



San Mateo County

400 County Center

Redwood City, CA

Correctional Facility

Redwood City, CA 94063

Solar

Shade

4/14/2021

11/11/2021

05/23/2023

Structure

Sheriff's Office

Maple Street

1300 Maple St

Issued For Permit

A Revision

↑ Plan Check Resubmittal

RECEIVED

Jun 21 2023

San Mateo County

Building Inspection

San Mateo County Sheriff's Office **Maple Street Correctional Facility**

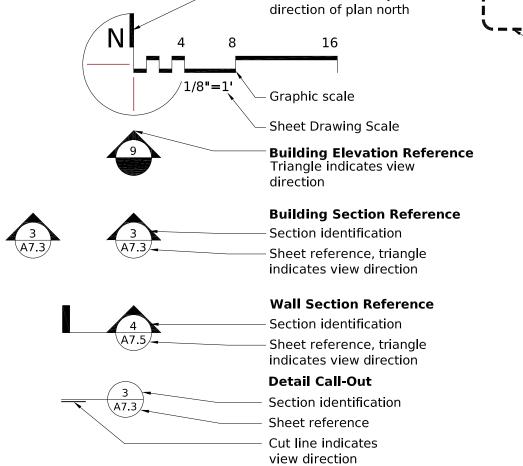
1300 Maple Street Redwood City, California

Abbreviations

AN	Di CVIACIO						
@	At	COTG	Clean Out To Grade	Н В	Hose Bib	PLWD	Plywood
Χ	Ву	C W	Cold Water	HDG	Hot Dipped Galvanized	PR	Pair
Ą.	Center Line	DBL	Double	HDW	Hardware	PTDF	Pressure Treated Doug F
0	Degrees	DEMO	Demolition	НМ	Hollow Metal	RCP	Reflected Ceiling Plan
Ø	Diameter	DET	Detail	HR	Hour	R D	Roof Drain
(E)	Existing	DF	Drinking Fountain	HT	Height	REF	Refer To:
ı	Foot/Feet	DIA	Diameter	J Н	Joist Hanger	REINF	Reinforced
ш	inch/inches	DIM	Dimension	JT	Joint	REQD	Required
(N)	New	DN	Down	LAM	Laminate	RM	Room
<u>+</u>	Plus/Minus	D S	Downspout	LAV	Lavatory	R O	Rough Opening
#	Pound/Number	DWG	Drawing	LT	Light	RR	Roof Rafter
(R)	Remove	Е	East	ΙD	Inside Diameter	R W L	Rain Water Leader
АВ	Anchor Bolt	EA	Each	ΙE	Invert Elevation	S	South
ABV	Above	ΕF	Exhaust Fan	INSUL	Insulation	SCH	Schedule
АС	Asphaltic Concrete	ΕJ	Expansion Joint	INT	Interior	SEC	Section
ADJ	Adjustable	ELEC	Electrical	INV	Invert	SHT	Sheet
AFF	Above Finished Floor	ELEV	Elevation	ΙT	Information Technology	SOV	Shut Off Valve
ALUM	Aluminum	EMER	Emergency	MAX	Maximum	SPEC	Specification
ANCH	Anchor	ΕP	Electrical Panel	МВ	Marker Board	SS	Sanitary Sewer
АР	Access Panel	EQ	Equal	MFR	Manufacturer	STD	Standard
ARCH	Architectural	EQUIP	Equipment	МН	MANHOLE	STO	Storage
ASPH	Asphalt	E/S	Each Side	MIN	Minimum	STRUC	Structural
BD	Board	FΑ	Fire Alarm	MR	Moisture Resistant	SUSP	Suspended
BLDG	Building	F D	Floor Drain	MTD	Mounted	ТВ	Tack Board
BLK	Block	FDC	Fire Dept Connection	MTL	Metal	T G	Top of Grate
BLKG	Blocking	FDN	Foundation	MUL	Mullion	ТОС	Top Of Concrete
вм	Beam	FE	Fire Extinguisher	N	North	ТОР	Top Of Plate
вот	Bottom	F G	Finished Grade	NΑ	Not Applicable	TOS	Top Of Slab
B/T	Between	FΗ	Fire Hydrant	NIC	Not In Contract	TOW	Top Of Wall
BW	Bottom of Wall	FIN	Finish	NOM	Nominal	UON	Unless Otherwise Noted
С	Conduit	FOC	Face Of Concrete	ΝR	Not Required	VCT	Vinyl Composite Tile
САВ	Cabinet	FOF	Face Of Finish	NTS	Not To Scale	V C TB	Vinyl Covered Tackboard
СВ	Catch Basin	FOM	Face Of Masonry	ОС	On Center	VIF	Verify in Field
СІ	Cast Iron	FOS	Face Of Stud	OFS	Off Face of Stud	W	Waste
C J	Construction Joint	FRMG	Framing	ОН	Overhang	W	West (elevation dwg's)
CLG	Ceiling	FS	Finished Surface	OPG	Opening	W B	White Board
CLR	Clear	FTG	Footing	OPP	Opposite	W C	Water Closet
COL	Column	FUT	Future	O/	Over	W/	With
CONC	Concrete	GALV	Galvanized	РΑ	Planting Area	WI	Woodwork Institute
CONST	Construction	G B	Grade Break	РС	Portland Cement	W/O	Without
CONT	Continuous	GC	General Contractor	PDF	Powder Driven Fastener	WD	Wood
CORR	Corridor	GL	Glass	РΗ	Panic Hardware	WP	Waterproof
CTR	Center	GR	Grade	PIP	Protect in Place	WT	Weight
CTSK	Countersink	GSM	Galvanized Sheet Metal	PL	Plate		
CLICT		CVD		D 1 4 4 4	B		

Legend & Symbols

CUST Custodial



North Arrow/Graphic Scale

Detail Call-Out Section identification Sheet reference Indicated area **Match Line**

 \bullet (00.0.0)

Room

2' - 0''

P LAM Plastic Laminate

Elevation/Control Point Control point, work point, or datum point

Keynote Number

Room Identification Room name Room number

Dimension Dimension are from face of stud to face of stud. UON

Face of Finish Fire Extinguisher (2A10BC) Wall mounted, handle max 4'-0" a.f.f. refer interior

elevations. county to provide

extinguisher, contractor to

provide blk'g & installation

General Notes

All work performed under the conditions of these drawings shall comply in every respect with the following:

2019 Cal. Administrative Code, Part 1, Title 24 CCR 2019 Cal. Building Code (CBC), Part 2, Title 24 CCR 2019 Cal. Electrical Code (CEC), Part 3, T-24 CCR

2019 Cal. Mechanical Code (CMC), Part 4, T-24 CCR 2019 Cal. Plumbing Code (CPC), Part 5, T-24 CCR 2019 Cal. Energy Code, Part 6, T-24 CCR

2019 Cal. Fire Code (CFC), Part 9, T-24 CCR 2019 Cal. Green Building Standards Code, Part 11, Title 24 CCR 2019 Cal. Referenced Standards Code, Part 12, Title 24 CCR, including ACC

California building code amendments Title 19 CCR Public Safety State, Fire Marshal Regulations 2007 ASME A17.1 (w/ A17.1a/CSA B44a-08 Addenda) Including all Safety Code for Elevators and Escalators 2010 ADA Standard for ACC design

NFPA 13 Standard for installation of Sprinkler System (CA amended) 2016 Ed NFPA 14 Standard for installation of Standpipe and Hose System2013 Edition NFPA 17 Standard for Dry Chemical Extinguishing Systems, 2013Edition NFPA 17A Standard for Wet Chemical Extinguishing Systems, 2013 Ed. NFPA 20 Standard for installation of Stationary Pumps, 2013 Ed NFPA 22 Standard for Water tank of Private Fire Protection 2013 Edition NFPA 24 Standard for installation of Private Fire Service Mains and Their Appurtenance 2016 Edition

NFPA 72 National Fire Alarm and Signaling Code (CA AMDT), 2016 Edition NFPA 80 Standard for Fire Doors and Other Opening Protectives, 2016

NFPA 2001 Standard on Clean Agent Fire Extinguishing Systems 2015

UL 300 Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment 2005 (R2010) UL 464 Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories 2003 Edition UL 521 Standard for Heat Detectors for Fire Protective Signaling

Systems1999 Edition UL 1971 Standard for Signaling Devices for Hearing impaired 2002 Edition ICC 300 Standard for Bleachers, Folding and Telescopic Seating, and

For a complete list of applicable NFPA standards refer to 2016 CBC (SFM) Chapter 35 and California Fire Code Chapter 80. See California Building Code, Chapter 35, for State of California amendments

to the NFPA Standards. California Title 24

The intent of these drawings and specifications is that the work of the alteration is to be in accordance with Title 24, CCR. Should any existing conditions such as deterioration or non-complying construction be discovered which is not covered by the contract documents wherein the finished work will not comply with Title 24, CCR, notify the Architect and District before proceeding with the work.

Administrative Requirements The Contractor shall keep a copy of the 2019 California Building Code.

Work shall be executed strictly in accordance with approved plans, addenda, and change orders. **Site Examination**

The Contractor shall thoroughly examine the site and satisfy himself as to the conditions under which the Work is to be performed. The Contractor shall verify at the site all measurements and conditions affecting his work and shall be responsible for same unless brought to the attention of the Owner or his agent prior to proceeding with the Work. Commencement of work by Contractor or any Subcontractor shall indicate a knowledge and acceptance of all conditions described in the Documents or existing on site which could affect their work.

Moisture Proof Interior Spaces

It is the intent of these Documents to provide for the construction of a moisture proof enclosure of interior space. If the Owner, Contractor or any Sub-contractors become aware of any assembly or condition, either shown in the Drawings or constructed on-site, which does not, in their opinion, satisfy this intent, it is their responsibility to notify the Architect within a reasonable amount of time so that the condition or assembly can be reviewed, and, if necessary, modifications can be made to the Documents or to the Work without impacting the progress.

Moisture Protection During Construction Should any special situations or climatic conditions occur during

construction the Owner, Contractor and Sub-contractors shall so notice and implement any measures required to assure the protection of materials and assemblies. The Contractor shall take all necessary measures to protect new or existing construction and materials from damage due to weather or any other adverse conditions.

Work shall occur while portions of the site are occupied by the Tenant. Contractor is fully responsible for site safety and control of public access near work zones. Roadways shall be maintained clear of construction equipment or materials at all times. Existing landscaping shall be protected as required to prevent any damage to plants and trees unless specified for removal in plans or by Owner.

Americans with Disabilities Act

It is the intent of these Documents to meet guidelines for accessibility to this public place of accommodation, by individuals with disabilities. These guidelines have been applied during design and shall be applied during construction.

If the Owner, Contractor or any Subcontractors become aware of any assembly or condition, either shown in the Drawings or constructed on-site, which does not, in their opinion, satisfy this intent or meet industry standards for construction quality, it is their responsibility to notify the Architect within a reasonable amount of time so that the condition or assembly can be reviewed, and, if necessary, modifications can be made to the Documents or to the Work without impacting the progress.

Disclaimer

This project site is an occupied building. All construction activities shall be contained within fenced or barricaded areas in accordance with project specification and schedule requirements. Certain construction activities that generate disruptive noise , odors, dust, and debris must be scheduled when building is not occupied.

All work shown, noted, or detailed is new, except where indicated as existing or as existing to remain.

Contractor shall field verify all dimensions and existing conditions at the site and shall report any discrepancies in writing to the Architect by the means of a Request for Information (RFI) or as part of the applicable shop drawings or submittals.

Specific items noted to be verified or field verified are required to be verified prior to ordering materials or proceeding with the work.

Contractor is responsible for all incidental work necessary to complete the installation of new work. This includes, but is not limited to, the removal and/or reinstallation of all existing items, or portions of the existing construction whether shown or not.

Underground locating service (811 Dig) responsibility of the contractor prior to excavation work.

All dimensions given take precedence over scale. Contractor shall not scale drawings to determine dimensions without consulting the Architect. Contractor shall review all dimensions for accuracy prior to construction.

Dimensions given as "CLR" are to face of finish. Otherwise, all dimensions are to face of stud/structure unless other wise noted.

Refer to Demolition Plans for items to remain, items to be salvaged

Repeating items or assemblies may not be noted or dimensioned at all occurrences where repetition is obvious or noted as typical.

and/or relocated. Unless indicated elsewhere.

Refer to Structural Drawings for location of special floor and wall framing, special connections, anchorages

Refer to Specifications for additional requirements.

For Abatement Work, refer to Specifications and Hazardous Materials

Use of Documents

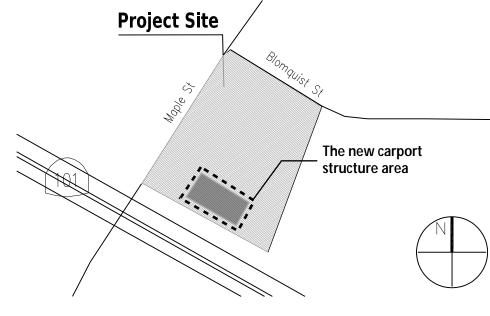
No guarantee for quality of construction is implied or intended by these Documents. The Contractor shall assume full responsibility for any construction deficiencies.

All Contract Documents described in the Construction Contract shall be considered one document and are intended to be used as one document. Contractor and all sub-contractors shall review all documents prior to bidding. Sub-contractors are responsible for any information pertaining to their work no matter where it may occur in these Documents.

All dimensions and conditions shall be checked and verified, both in the Documents and on the job, by Contractor and each Sub-contractor before proceeding with the work. Any errors, omissions, discrepancies or deficiencies shall be brought to the attention of the General Contractor prior to proceeding with the Work. All dimensions take precedent over scale. Where dimensions are not entirely clear the Contractor shall notify the Architect and request clarification.

DRAWINGS SHALL NOT BE SCALED

Vicinity Map



Code Analysis

Occupancy Group: U (PV Structure): I-3 (Correctional Facility) Construction Type: Type I (Steel and concrete) Allowable area per CBC table 506.2: 35,000 sf (non sprinkler) Proposed area: 9.840 sf <35,000 sf. Therefore ok

Project Scope

Construction and installation of parking shade structure and photovoltaic energy system.

• The following items are included in the scope of work. Not all scope items are listed here. Refer to all other components of the construction documents for additional scope.

 If contractor does not intend to provide any of these items, contractor should not submit a bid on this project. If any questions arise during bid period as to these requirements,

contractor shall contact architect for clarification.

• Contractor shall ensure that construction operations in this project do not inhibit the continuous operation in other areas of the site of all low voltage systems including but not limited to: Fire Alarm, Energy Management, Security, Access, and Data . Contractor is responsible for all means and methods to ensure this requirement is met. Change orders for logistical operations related to continuous operation of these

components will not be entertained.

- Title 24/ADA compliant components throughout. • Title 24/ADA compliant directional / tactile signage.
- Hazardous material abatement wherever it occurs.
- All demolition required to accomplish and complete the work. Parking Striping
- Construction of drilled piers column and steel beam structure.
- Installation of solar panels and electrical system

Project Directory

San Mateo County 400 County Center

Redwood City, CA 94063 (650) 599-7285

Structural Engineer Rinne & Peterson, Inc.

1121 San Antonio Rd Palo Alto, CA 94303 (650) 428-2860

1730 S. Amphlett Blvd., Suite 225 San Mateo, California 94402 (650) 340-1221 **Civil Engineer**

Bartos Architecture

Lea & Braze Engineering, Inc. 2495 Industrial Parkway West Hayward, CA 94545 (510) 887-4086

> **Electrical Engineer** American Consulting Engineers Electrical, Inc. 1590 The Alameda San Jose, CA 95126

> > (408) 236-2312

Drawing Index

Title Sheet & Drawing Index A0.1 Site & Staging Plan A8.0 **CAL GBSC Non-residential Mandatory Measures** CAL GBSC Non-residential Mandatory Measures CAL GBSC Non-residential Mandatory Measures A8.2 Civil C1.0 Title Sheet C2.0 Site Plan C3.0 Details C4.0 **Grading Specifications** ER-1 **Erosion Control**

Best Management Practices Structural S0.1 General Notes S0.2 General Notes

ER-2

S2.1 Solar Structure Framing Plan and Elevation S3.1 Frame Elevations S5.1 Details **Electrical** E0.1 Electrical Cover Page

E1.1 Electrical Site Plan New E1.2 Enlarged Electrical Site Plan New E1.3 PV Panel Layout Enlarged Electrical Equipment Yard Demolition Lighting Site Plan (E2.2 New Lighting Site Plan

Erosion Control Details

Enlarged Lighting Site Plan New Single Line Diagram E3.2 PV Riser Diagram

E3.3 PV Riser Diagram E4.1 **Electrical Details** E4.2 **Electrical Details** E4.3 PV Calculations

PV Labeling

E4.4

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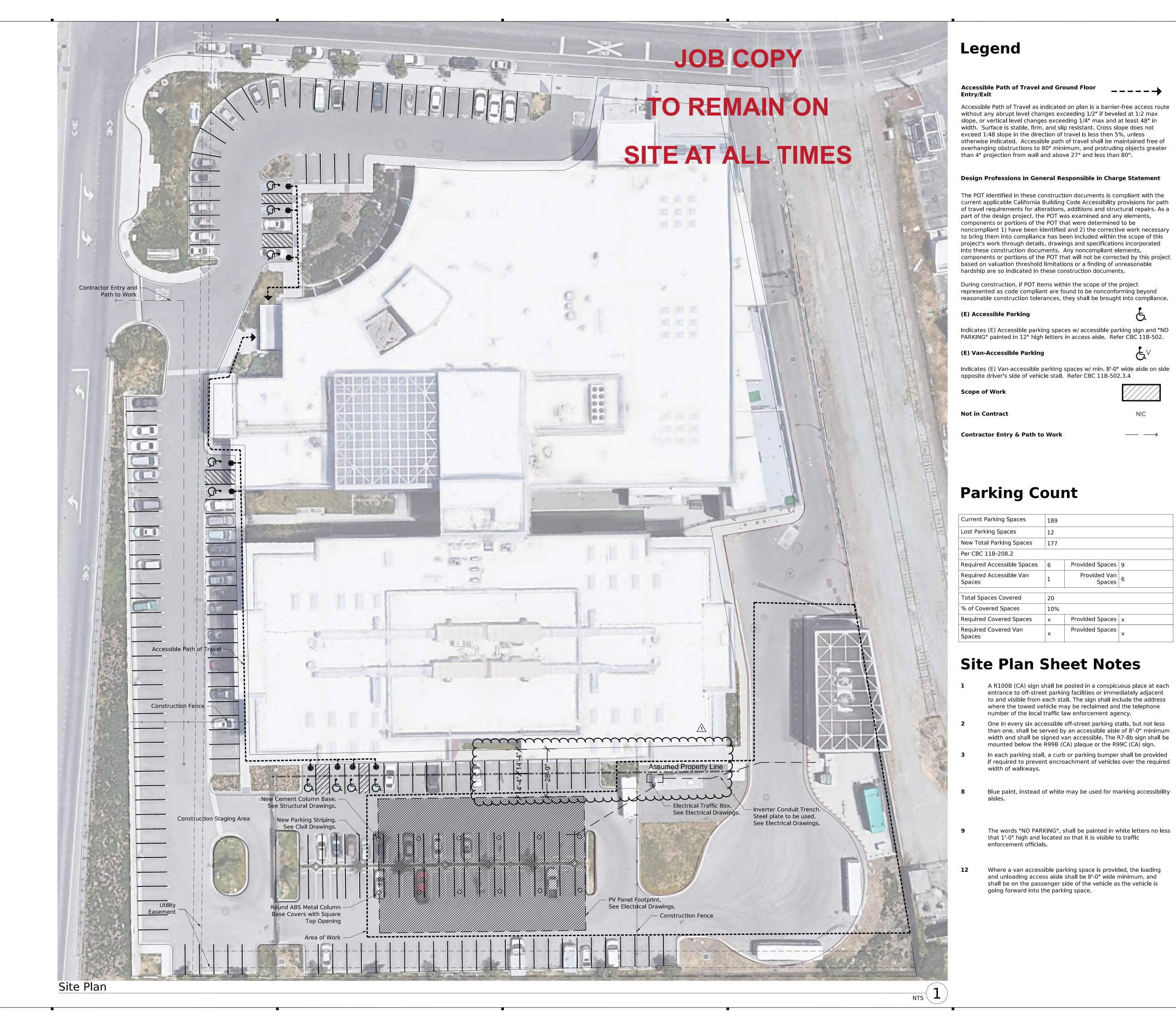
REVIEWED FOR CODE COMPLIANCE This review does not authorize violation of State or County building laws.

SITE AT ALL TIMES

Jun 21 2023

SAN MATEO CO. BLDG. INSP. DIV.

Title Sheet and Drawing Index





1730 S. AMPHLETT BLVD, SUITE 225 SAN MATEO, CALIFORNIA 94402 www.bartosarchitecture.com



San Mateo County



Maple Street Correctional Facility 1300 Maple St

Provided Spaces | 9

Provided Van

Provided Spaces X

Provided Spaces

Spaces

Solar Shade **Structure**

4/14/2021 Issued For Permit ∖Plan Check Resubmittal

Redwood City, CA 94063

FIRE PLAN REVIEW & ACCEPTANCE
THESE PLANS HAVE BEEN REVIEWED FOR
COMPLIANCE WITH THE APPLICABLE CALIFORNIA BUILDING STANDARDS CODES AND NATIONAL STANDARDS AS ADOPTED BY THE STATE OF CALIFORNIA AND AMENDED AND ADOPTED BY THE LOCAL ALL PLANS ARE SUBJECT TO FIELD NDITIONS AND FINAL APPROVAL AT THE TIME OF INSPECTION, PLAN REVIEW ACCEPTANCE DOES NOT PERMIT CONSTRUCTION TO PROCEED IN VIOLATION OF ANY LAW OR LOCAL y Scott Adams Date 1/26/2022 WEST COAST CODE CONSULTANTS, WC3

RECEIVED

San Mateo County /1/8"=1'-0"

Jun 21 2023

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SITE AT ALL TIMES

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Site Plan & Staging Diagram

2019 CALIFORNIA GREEN BUILDING STANDARDS COEY NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

NOT APPLICABLE
RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

SAN MATEO, CALIFORNIA 94402 www.bartosarchitecture.com



TO REMAIN ON Y N/A RESPON. PARTY

1. Where there is insufficient electrical supply. 2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the

TABLE 5.106.5.3.3	, , .
TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
26-50	2
51-75	4
76-100	5
101-150	7
151-200	10
201 AND OVER	6% of total ¹

1. Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

Designated parking for clean air vehicles.

5.106.8 LIGHT POLLUTION REDUCTION. [N].I Outdoor lighting systems shall be designed and installed to comply

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10,

Section 10-114 of the California Administrative Code; and 2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);

3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in

4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

- Luminaires that qualify as exceptions in Section 140.7 of the California Energy Code.
- 3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
- 4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.

1. See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.

2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, California Energy Code Tables 130.2-A and 130.2-B.

3. Refer to the California Building Code for requirements for additions and alterations.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 1,

•							- 1	1
ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4			
MAXIMUM ALLOWABLE BACKLIGHT RATING 3								
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit			
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	В3	B4	B4			
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	В3	-		İ
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	В0	В0	B1	B2			
MAXIMUM ALLOWABLE UPLIGHT RATING (U)						- 🔲	LXI.	
For area lighting 4	N/A	U0	U0	U0	U0			
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR			
MAXIMUM ALLOWABLE GLARE RATING ₅ (G)								İ
Luminaire greater than 2 MH from property line	N/A	G1	G2	G3	G4	-		
Luminaire front hemisphere is 1-2 MH from property line	N/A	G0	G1	G1	G2	-		
Luminaire front hemisphere is 0.5-1 MH from property line	N/A	G0	G0	G1	G1		X	
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	G0	G0	G0	G1			
IESNA Lighting Zones 0 and 5 California Energy Code and Char	• • •		•	ined in the				

California Energy Code and Chapter 10 of the Callifornia Administrative Code

- 3. If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met.
- these reduced ratings. Decorative luminaires located in these areas shall meet U-value limits for

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water

5. Other water measures which keep surface water away from buildings and aid in groundwater

necessary to establish and maintain tree health shall comply with Section 5.304.6. 5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: The surface parking area covered by solar photovoltaic shade structures, or shade structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculations.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2,

and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation. 5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG]. California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL **5.301.1 Scope.** The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 (and are included here for reference) EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic puroses, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. A meter installed subordinate to a site meter. Usually used to measure water intended for one purpose, such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter.

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape

SECTION 5.303 INDOOR WATER USE 5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows: 1. For each individual leased, rented or other tenant space within the building projected to consume

more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop. 2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:

a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

not exceed 0.5 gallons per flush.

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of

two reduced flushes and one full flush. 5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed

0.125 gallons per flush. **5.303.3.2.2 Floor-mounted Urinals.** The effective flush volume of floor-mounted or other urinals shall

5.303.3.3 Showerheads. [BSC-CG] **5.303.3.3.1 Single showerhead.** Showerheads shall have a maximum flow rate of not more than 1.8

gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time. Note: A hand-held shower shall be considered a showerhead

San Mateo County Sheriff's Office 400 County Center Redwood City, CA

Maple Street Correctional Facility 1300 Maple St Redwood City, CA 94063

Issued For Permit 4/14/2021 11/11/2021

> FIRE PLAN REVIEW & ACCEPTANCE
> THESE PLANS HAVE BEEN REVIEWED FOR COMPLIANCE WITH THE APPLICABLE AND NATIONAL STANDARDS AS ADOPTED BY THE STATE OF CALIFORNIA AND AMENDED AND ADOPTED BY THE LOCAL ALL PLANS ARE SUBJECT TO FIELD NDITIONS AND FINAL APPROVAL AT THE TIME OF INSPECTION, PLAN REVIEW

> > CONSTRUCTION TO PROCEED IN

VIOLATION OF ANY LAW OR LOCAL Scott Adams Date 1/26/2022

RECEIVED Jun 21 2023

San Mateo County

Building Inspection

JOB COPY

TO REMAIN ON

SITE AT ALL TIMES

REVIEWED FOR CODE COMPLIANCE This review does not authorize violation of State or County building laws.

Jun 21 2023

SAN MATEO CO. BLDG. INSP. DIV.

Non-residential Mandatory Measures

n. Other housekeeping BMPs acceptable to the enforcing agency.

CHAPTER 3 5,106,2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF **LAND.** Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or **GREEN BUILDING** more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale. **SECTION 301 GENERAL** Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the **301.1 SCOPE.** Buildings shall be designed to include the green building measures specified as mandatory in applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges the application checklists contained in this code. Voluntary green building measures are also included in the Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or application checklists and may be included in the design and construction of structures covered by this code, the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit). but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff 301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. the authority of California Building Standards Commission). Code sections relevant to additions and Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural alterations shall only apply to the portions of the building being added or altered within the scope of the practices and be approved by the enforcing agency. A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no 301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only: Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 et seg. for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance. 301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work. 301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) 301.5 HEALTH FACILITIES. (see GBSC) **SECTION 302 MIXED OCCUPANCY BUILDINGS** 302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy. **SECTION 303 PHASED PROJECTS** 303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements. only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply. **303.1.1 Initial Tenant improvements.** The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations. **ABBREVIATION DEFINITIONS:** Department of Housing and Community Development California Building Standards Commission Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development Low Rise High Rise Additions and Alterations CHAPTER 5 NONRESIDENTIAL MANDATORY MEASURES DIVISION 5.1 PLANNING AND DESIGN **SECTION 5.101 GENERAL** 5.101.1 SCOPE The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties. **SECTION 5.102 DEFINITIONS** 5.102.1 DEFINITIONS

The following terms are defined in Chapter 2 (and are included here for reference) CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire. LOW-EMITTING AND FUEL EFFICIENT VEHICLES. Eligible vehicles are limited to the following: vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962. stickers issued by the Department of Motor Vehicles.

1. Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission 2. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors. **VANPOOL VEHICLE.** Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor,

designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT 5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction

activities through one or more of the following measures: 5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:

a. Scheduling construction activity during dry weather, when possible. o. Preservation of natural features, vegetation, soil, and buffers around surface waters.

c. Drainage swales or lined ditches to control stormwater flow. d. Mulching or hydroseeding to stabilize disturbed soils.

e. Erosion control to protect slopes. . Protection of storm drain inlets (gravel bags or catch basin inserts). g. Perimeter sediment control (perimeter silt fence, fiber rolls). Sediment trap or sediment basin to retain sediment on site.

Stabilized construction exits Wind erosion control Other soil loss BMPs acceptable to the enforcing agency. 2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges

and wastes that should be considered for implementation as appropriate for each project include, but

are not limited to, the following: a. Dewatering activities. b. Material handling and waste management. c. Building materials stockpile management.

d. Management of washout areas (concrete, paints, stucco, etc.). e. Control of vehicle/equipment fueling to contractor's staging area. . Vehicle and equipment cleaning performed off site.

g Spill prevention and control.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development. **5.106.4 BICYCLE PARKING.** For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5,106,4,2 **5.106.4.1 Bicycle parking. [BSC-CG]** Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter. **5.106.4.1.1 Short-term bicycle parking.** If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being 5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 added with a minimum of one two-bike capacity rack **Exception:** Additions or alterations which add nine or less visitor vehicular parking spaces. **5.106.4.1.2 Long-term bicycle parking.** For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. **5.106.4.1.3** For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility 5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. 5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following: 1. Covered, lockable enclosures with permanently anchored racks for bicycles; Lockable bicycle rooms with permanently anchored racks; or 3. Lockable, permanently anchored bicycle lockers. Note: Additional information on recommended bicycle accommodations may be obtained from

that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows: TABLE 5.106.5.2 - PARKING TOTAL NUMBER OF PARKING SPACES NUMBER OF REQUIRED SPACES 10-25 1 25-50 3 51-75 6 76-100 8 101-150 11 151-200 16 AT LEAST 8% OF TOTAL 201 AND OVER

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections

shall be convenient from the street or staff parking area and shall meet one of the following:

Covered, lockable enclosures with permanently anchored racks for bicycles;

5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations

accessed with a minimum of four two-bike capacity racks per new building.

2. Lockable bicycle rooms with permanently anchored racks; or

3. Lockable, permanently anchored bicycle lockers.

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently

5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed

with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities

5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California Electrical Code and as follows:

5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.

Sacramento Area Bicycle Advocates.

5.106.4.2.1 and 5.106.4.2.2

2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.

3. The raceway shall not be less than trade size 1". 4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed suitable cabinet, box, enclosure or equivalent.

5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.

5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

3. Plan design shall be based upon 40-ampere minimum branch circuits.

1. The type and location of the EVSE.

2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.

4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage. 5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the

required number of dedicated branch circuit(s) for the future installation of the EVSE. **5.106.5.3.3 EV charging space calculations. [N]** Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions: 2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section. 4. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet 5. If the nearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.

include, but are not limited to, the following:

2. Water collection and disposal systems.

French drains. 4. Water retention gardens.

Exception: Additions and alterations not altering the drainage path.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.



2019 CALIFORNIA GREEN BUILDING STANDARDS CORY NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

NOT APPLICABLE RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER,

OWNER, CONTRACTOR, INSPECTOR ETC.)

730 S. AMPHLETT BLVD, SUITE 225

SAN MATEO, CALIFORNIA 94402

www.bartosarchitecture.com

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT 5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by and over, building commissioning shall be included in the design and construction processes of the building project to 5,303,3,4 Faucets and fountains California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local verify that the building systems and components meet the owner's or owner representative's project requirements. ordinance, whichever is more stringent. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of **5.303.3.4.1 Nonresidential Lavatory faucets.** Lavatory faucets shall have a maximum flow rate of not comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and more than 0.5 gallons per minute at 60 psi. L-occupancies that are not regulated the California Energy Code Cartion 100.0 Scope, all requirements in 5.410.2 through 5.410.2.6 shall appl.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including here. **5.407.2 MOISTURE CONTROL.** Employ moisture control measures by the following methods. **5.303.3.4.2 Kitchen faucets.** Kitchen faucets shall have a maximum flow rate of not more than 1.8 5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures. gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons 5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water rain to prevent water intrusion into buildings as follows: heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements **5.303.3.4.3 Wash fountains.** Wash fountains shall have a maximum flow rate of not more than 1.8 5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water Commissioning requirements shall include: gallons per minute/20 [rim space (inches) at 60 psi]. intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following: Owner's or Owner representative's project requirements. 5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle. . Basis of design. 3. Commissioning measures shown in the construction documents. 1. An installed awning at least 4 feet in depth. **5.303.3.4.5 Metering faucets for wash fountains.** Metering faucets for wash fountains shall have a 4. Commissioning plan. 2. The door is protected by a roof overhang at least 4 feet in depth. maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi]. 5. Functional performance testing. The door is recessed at least 4 feet. 4. Other methods which provide equivalent protection. Documentation and training. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve 7. Commissioning report. **5.407.2.2.2 Flashing.** Install flashings integrated with a drainage plane. Exceptions: 5.303.4 COMMERCIAL KITCHEN EQUIPMENT. SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND . Unconditioned warehouses of any size. 2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within **5.303.4.1 Food Waste Disposers.** Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no unconditioned warehouses. **5.408.1 CONSTRUCTION WASTE MANAGEMENT.** Recycle and/or salvage for reuse a minimum of 65% of the more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. 3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1. non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or Note: This code section does not affect local jurisdiction authority to prohibit or require disposer 4. Open parking garages of any size, or open parking garage areas, of any size, within a structure. meet a local construction and demolition waste management ordinance, whichever is more stringent. Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not **5.303.5 AREAS OF ADDITION OR ALTERATION.** For those occupancies within the authority of the California 5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and provide heating and or air conditioning. demolition waste management ordinance, submit a construction waste management plan that: Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building. Informational Notes: . Identifies the construction and demolition waste materials to be diverted from disposal by efficient 5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed usage, recycling, reuse on the project or salvage for future use or sale. 1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of 2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or commissioning personnel, AC 476 is available to the Authority Having Jurisdiction as a reference for in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional of the California Plumbing Code and in Chapter 6 of this code. Identifies diversion facilities where construction and demolition waste material collected will be taken. performance tests or to adjust and balance systems. Specifies that the amount of construction and demolition waste materials diverted shall be calculated 2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls **SECTION 5.304 OUTDOOR WATER USE** must be performed in compliance with the California Energy Code. 5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply 5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water documentation that the percentage of construction and demolition waste material diverted from the landfill Efficient Landscape Ordinance (MWELO), whichever is more stringent. complies with this section. 5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the Note: The owner or contractor shall make the determination if the construction and demolition waste material project begins. This documentation shall include the following: 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, will be diverted by a waste management company. Environmental and sustainability goals. 2. Building sustainable goals. 2. MWELO and supporting documents, including a water budget calculator, are available at: **Exceptions to Sections 5.408.1.1 and 5.408.1.2:** B. Indoor environmental quality requirements. https://www.water.ca.gov/. 4. Project program, including facility functions and hours of operation, and need for after hours Excavated soil and land-clearing debris. 5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle 5. Equipment and systems expectations. landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of facilities capable of compliance with this item do not exist. 6. Building occupant and operation and maintenance (O&M) personnel expectations. Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) 5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35. the OPR shall be completed at the design phase of the building project. The Basis of Design document shall **5.408.1.3 Waste stream reduction alternative.** The combined weight of new construction disposal that does cover the following systems: Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement prescriptive measures contained in Appendix D of the MWELO. as approved by the enforcing agency. Renewable energy systems. Landscape irrigation systems. **5.304.6.1 Newly constructed landscapes.** New construction projects with an aggregate landscape **5.408.1.4 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates area equal to or greater than 500 square feet. compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency. **5.410.2.3 Commissioning plan. [N]** Prior to permit issuance a commissioning plan shall be completed to **5.304.6.2 Rehabilitated landscapes.** Rehabilitated landscape projects with an aggregate document how the project will be commissioned. The commissioning plan shall include the following: landscape area equal to or greater than 1,200 square feet. General project information. Commissioning goals. 1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" 3. Systems to be commissioned. Plans to test systems and components shall include: located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance a. An explanation of the original design intent. **DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE** Equipment and systems to be tested, including the extent of tests 2. Mixed construction and demolition debris processors can be located at the California Department of Functions to be tested. Resources Recycling and Recovery (CalRecycle). **EFFICIENCY** d. Conditions under which the test shall be performed. e. Measurable criteria for acceptable performance. **5.408.2 UNIVERSAL WASTE. [A]** Additions and alterations to a building or tenant space that meet the scoping 4. Commissioning team information. **SECTION 5.401 GENERAL** provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste 5. Commissioning process activities, schedules and responsibilities. Plans for the completion of **5.401.1 SCOPE.** The provisions of this chapter shall outline means of achieving material conservation and resource items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited commissioning shall be included. efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting. materials shall be included in the construction documents. **5.410.2.4 Functional performance testing. [N]** Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the **Note**: Refer to the Universal Waste Rule link at: approved plans and specifications. Functional performance testing reports shall contain information addressing **SECTION 5.402 DEFINITIONS** http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A_REGS_UWR_FinalText.pdf each of the building components tested, the testing methods utilized, and include any readings and adjustments **5.402.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference) 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such 5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, material may be stockpiled on site until the storage site is developed. including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, Title 8, Section 5142, and other related regulations. Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation. **5.410.2.5.1 Systems manual. [N]** Documentation of the operational aspects of the building shall be BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction completed within the systems manual and delivered to the building owner or representative. The process, including verifying and documenting that building systems and components are planned, designed, installed, 1. If contamination by disease or pest infestation is suspected, contact the County Agricultural systems manual shall include the following: tested, operated and maintained to meet the owner's project requirements. Commissioner and follow its direction for recycling or disposal of the material. 1. Site information, including facility description, history and current requirements. 2. For a map of know pest and/or disease quarantine zones, consult with the California Department of 2. Site contact information. ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food Food and Agriculture. (www.cdfa.ca.gov) 3. Basic operations and maintenance, including general site operating procedures, basic soiled paper waste that is mixed in with food waste. troubleshooting, recommended maintenance requirements, site events log. **SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS TEST.** A procedure to determine quantitative performance of a system or equipment 5. Site equipment inventory and maintenance notes. **5.410.1 RECYCLING BY OCCUPANTS.** Provide readily accessible areas that serve the entire building and are 6. A copy of verifications required by the enforcing agency or this code. identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) 7. Other resources and documentation, if applicable. paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive. **5.410.2.5.2 Systems operations training. [N]** A program for training of the appropriate maintenance Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources staff for each equipment type and/or system shall be developed and documented in the commissioning Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section. report and shall include the following: 1. System/equipment overview (what it is, what it does and with what other systems and/or **5.410.1.1 Additions.** All additions conducted within a 12-month period under single or multiple permits, equipment it interfaces). resulting in an increase of 30% or more in floor area, shall provide recycling areas on site. 2. Review and demonstration of servicing/preventive maintenance. 3. Review of the information in the Systems Manual. **Exception**: Additions within a tenant space resulting in less than a 30% increase in the tenant space 4. Review of the record drawings on the system/equipment. **5.410.1.2 Sample ordinance.** Space allocation for recycling areas shall comply with Chapter 18, Part 3, 5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and design and construction phases of the building project shall be completed and provided to the owner or Recycling Access Act of 1991 (Act). Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the 5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of CalRecycle's web site. systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1. 5.410.4.2 (Reserved) Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific **5.410.4.2 Systems.** Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project: Renewable energy systems. Landscape irrigation systems. Water reuse systems.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL 5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS **5.502.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference)

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route. A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter

using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32⁰ Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

adjustments have been made.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations. Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O³/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to

ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain

hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a) Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition

included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which

Sheriff's Office 400 County Center Redwood City, CA

San Mateo County

Maple Street Correctional Facility 1300 Maple St Redwood City, CA 94063

4/14/2021 Issued For Permit 11/11/2021 1 Plan Check Resubmittal

> FIRE PLAN REVIEW & ACCEPTANCE
> THESE PLANS HAVE BEEN REVIEWED FOR COMPLIANCE WITH THE APPLICABLE LIFORNIA BUILDING STANDARDS CODES AND NATIONAL STANDARDS AS ADOPTED BY THE STATE OF CALIFORNIA AND AMENDED AND ADOPTED BY THE LOCAL ALL PLANS ARE SUBJECT TO FIELD INDITIONS AND FINAL APPROVAL AT THE TIME OF INSPECTION, PLAN REVIEW

VIOLATION OF ANY LAW OR LOCAL y Scott Adams Date 1/26/2022 WEST COAST CODE CONSULTANTS, WC3

CONSTRUCTION TO PROCEED IN

RECEIVED

Jun 21 2023

San Mateo County Building Inspection

JOB COPY

TO REMAIN ON

SITE AT ALL TIMES

REVIEWED FOR CODE COMPLIANCE This review does not authorize violation of State or County building laws.

Jun 21 2023

SAN MATEO CO. BLDG. INSP. DIV.

Non-residential Mandatory Measures

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National

Standards: the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING VERIFICATION WITH THE FULL CODE.

may enter the system.



2019 CALIFORNIA GREEN BUILDING STANDARDS COEFY NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)



NOT APPLICABLE
RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

1730 S. AMPHLETT BLVD, SUITE 225
RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards: 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such

products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds

aerosol products as specified in subsection 2, below.

(chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing

TABLE 5.504.4.1 - ADHESIVE VOC LIN	//IT _{1,2}
Less Water and Less Exempt Compounds in Grams	per Liter
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT			
Less Water and Less Exempt Compounds in Gram	s per Liter		
SEALANTS	CURRENT VOC LIMIT		
ARCHITECTURAL	250		
MARINE DECK	760		
NONMEMBRANE ROOF	300		
ROADWAY	250		
SINGLE-PLY ROOF MEMBRANE	450		
OTHER	420		
SEALANT PRIMERS			
ARCHITECTURAL			
NONPOROUS	250		
POROUS	775		
MODIFIED BITUMINOUS	500		
MARINE DECK	760		
OTHER	750		

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT	COMPOUNDS
COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS1	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD. ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following: . Manufacturer's product specification 2. Field verification of on-site product containers

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and

1. Carpet and Rug Institute's Green Label Plus Program.

2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).

3. NSF/ANSI 140 at the Gold level or higher; 4. Scientific Certifications Systems Sustainable Choice; or

5. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

1. Product certifications and specifications.

2. Chain of custody certifications. 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see

CCR, Title 17, Section 93120, et seq.).

4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S

5. Other methods acceptable to the enforcing agency.

TOREMAIN ON Y N/A RESPON. PARTY TABLE 5.504.4.5 - FORMALDEHYDE LIMITS MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PARTICLE BOARD 0.11 MEDIUM DENSITY FIBERBOARD

THIN MEDIUM DENSITY FIBERBOARD2 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD. AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION. SEE CALIFORNIA CODE OF REGULATIONS. TITLE 17. SECTIONS 93120 THROUGH

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program; 2. Compliant with the VOC-emission limits and testing requirements specified in the California

Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010; 3. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria

and listed in the CHPS High Performance Product Database; or 4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control ventilation, CO₂ sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, **prescriptive method**. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

1. Ldn or CNEL for military airports shall be determined by the facility Air Installation Compatible

2. Ldn or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or Ldn noise contour of a freeway or expressway, railroad, industrial source or

fixed-guideway source as determined by the Noise Element of the General Plan. 5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{sq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of

at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does

not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation. **5.507.4.2.1 Site Features.** Exterior features such as sound walls or earth berms may be utilized as

appropriate to the building, addition or alteration project to mitigate sound migration to the interior. **5.507.4.2.2 Documentation of Compliance.** An acoustical analysis documenting complying interior

sound levels shall be prepared by personnel approved by the architect or engineer of record. 5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant

spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY 5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO₂), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of

5.508.2.2 Valves. Valves Valves and fittings shall comply with the California Mechanical Code and as

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

State certified apprenticeship programs.

Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.

Programs sponsored by manufacturing organizations. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building

performance contractors, and home energy auditors. Successful completion of a third party apprentice training program in the appropriate trade.

4. Other programs acceptable to the enforcing agency.

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

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Maple Street Correctional Facility 1300 Maple St Redwood City, CA 94063

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> COMPLIANCE WITH THE APPLICABLE CALIFORNIA BUILDING STANDARDS CODES AND NATIONAL STANDARDS AS ADOPTED BY THE STATE OF CALIFORNIA AND AMENDED AND ADOPTED BY THE LOCAL ALL PLANS ARE SUBJECT TO FIELD NDITIONS AND FINAL APPROVAL AT THE TIME OF INSPECTION, PLAN REVIEW

> > CONSTRUCTION TO PROCEED IN

Scott Adams Date 1/26/2022

VIOLATION OF ANY LAW OR LOCAL

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Jun 21 2023

San Mateo County **Building Inspection**

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Jun 21 2023

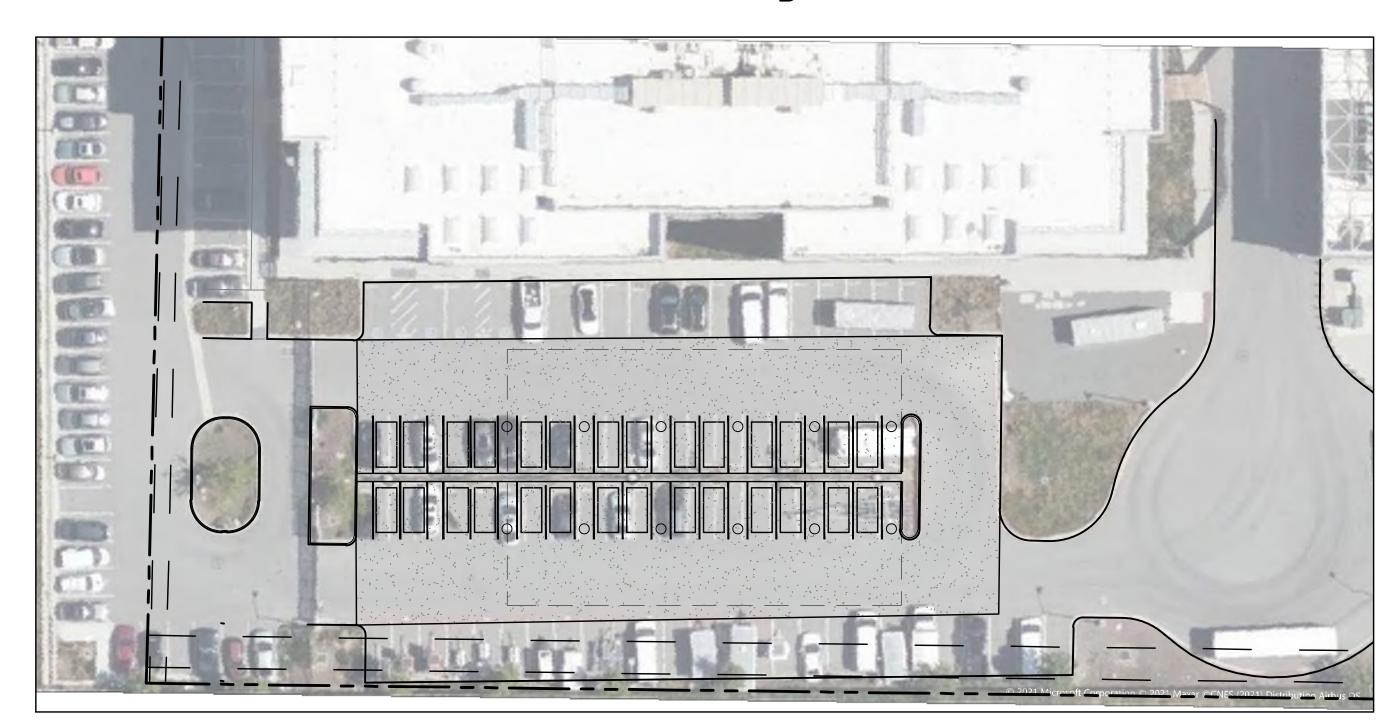
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Non-residential Mandatory Measures

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

LEGEND PROPOSED EXISTING ~>· **~**>· **~**> ~>· ~>· ~>

JOB COPY NEW SOLAR PV SYSTEM TO REMAIN ON **DESCRIPTION BOUNDARY** PHASE A RETAINING WALL 1300 MAPLE SPEET TIMES SUBDRAIN LINE TIGHTLINE



REDWOOD CITY, CALIFORNIA

KEY MAP 1" = 30'

ABBREVIATIONS

WATER LINE

JOINT TRENCH

SET BACK LINE

EARTHEN SWALE

CATCH BASIN

JUNCTION BOX

AREA DRAIN

CURB INLET

FIRE HYDRANT

STREET SIGN

SPOT ELEVATION

FLOW DIRECTION

BENCHMARK

CONTOURS

DEMOLISH/REMOVE

TREE TO BE REMOVED

TREE PROTECTION FENCING

WELDED WIRE FABRIC

STORM DRAIN MANHOLE

STORM DRAIN PRESSURE LINE

CONCRETE VALLEY GUTTER

SANITARY SEWER PRESSURE LINE

GAS LINE

AD	ACCRECATE DACE	LF	LINICAD FEET
AB	AGGREGATE BASE		LINEAR FEET
AC	ASPHALT CONCRETE	MAX	MAXIMUM
ACC	ACCESSIBLE	MH	MANHOLE
AD	AREA DRAIN	MIN	MINIMUM
BC	BEGINNING OF CURVE	MON.	MONUMENT
	DEADING & DISTANCE	MRO	METERED RELEASE OUTLET
B & D			
ВМ	BENCHMARK	(N)	NEW
BUB	BUBBLER BOX	ŇÓ.	NUMBER
BW/FG	BOTTOM OF WALL/FINISH	NTS	NOT TO SCALE
	GRADE	O.C.	ON CENTER
CB	GRADE CATCH BASIN	0.7	
	CATCH BASIN	0/	OVER
C & G	CURB AND GUTTER	0/ (PA)	PLANTING AREA
€ CPP	CENTER LINE	PED	PEDESTRIAN
T COD		FLD	
CPP	CORRUGATED PLASTIC PIPE	PIV	POST INDICATOR VALVE
	(SMOOTH INTERIOR)	PSS	PUBLIC SERVICES EASEMENT
CO	CLEANOUT		
	CLEANOUT	P	PROPERTY LINE
COTG	CLEANOUT TO GRADE	PP	POWER POLE
CONC	CONCRETE	PP PUE	PUBLIC UTILITY EASEMENT
CONST CONC COR CY	CONCTRUCT on TION	FUL	
CONST	CONSTRUCT or -TION	PVC	POLYVINYL CHLORIDE
CONC COR	CONCRETE CORNER	R	RADIUS
CY	CUBIC YARD	RCP	REINFORCED CONCRETE PIPE
01	DIAMETER		
D	DIAMETER	RIM	RIM ELEVATION
DI	DROP INLET	RW	RAINWATER
DIP	DUCTILE IRON PIPE		
	EACH	R/W	RIGHT OF WAY
EA	EACH	S	SLOPE
EC	END OF CURVE EXISTING GRADE ELEVATIONS	S.A.D.	SEE ARCHITECTURAL DRAWINGS
EG	FXISTING GRADE		
	ELEVATIONS	SAN	SANITARY
EL		SD	STORM DRAIN
EP	EDGE OF PAVEMENT	SDMH	STORM DRAIN MANHOLE
EQ	EQUIPMENT	SHT	SHEET
EW	EACH WAY	S.L.D.	SEE LANDSCAPE DRAWINGS
(E)	EXISTING	SPEC	SPECIFICATION
È Ć	FACE OF CURB		SANITARY SEWER
FF	FINISHED FLOOR	SSCO	SANITARY SEWER CLEANOUT
FG	FINISHED GRADE	SSMH	SANITARY SEWER MANHOLE
FH	FIRE HYDRANT	ST.	STREET
FL	FLOW LINE	STA	STATION
FS	FINISHED SURFACE	STD	STANDARD
G	GAS	STRUCT	STRUCTURAL
ĞA			
	GAGE OR GAUGE	T	TELEPHONE
GB	GRADE BREAK	TC	TOP OF CURB
HDPE	HIGH DENSITY CORRUGATED	TOW	TOP OF WALL
	POLYETHYLENE PIPE		
		TEMP	TEMPORARY
HORIZ	HORIZONTAL	TP	TOP OF PAVEMENT
HI PT	HIGH POINT	TW/FG	TOP OF WALL/FINISH GRADE
H&T	HUB & TACK		
		TYP	TYPICAL
ID	INSIDE DIAMETER	VC	VERTICAL CURVE
INV	INVERT ELEVATION	VCP	VITRIFIED CLAY PIPE
JB	JUNCTION BOX		
		VERT	VERTICAL
JT	JOINT TRENCH	W/	WITH
JP	JOINT UTILITY POLE	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Ĩ	LENGTH	W, WL	WATER LINE
L		WM	WATER METER
LNDG	LANDING	\A/\A/E	WEIDED WIDE EXDDIC

LNDG

LANDING

NOTE: **FOR CONSTRUCTION STAKING SCHEDULING OR QUOTATIONS** PLEASE CONTACT ALEX ABAYA AT LEA & BRAZE ENGINEERING (510)887-4086 EXT 116. aabaya@leabraze.com



SHEET INDEX TITLE SHEET SITE PLAN

CHECKED BY: RC

SCALE:

DESIGN BY:

DETAILS GRADING SPECIFICATIONS EROSION CONTROL ER-2 EROSION CONTROL DETAILS BEST MANAGEMENT PRACTICES

2210100

04-22-21

AS NOTED

SAN MATEO, CALIFORNIA 94402 www.bartosarchitecture.com

-PROJECT SITE

VICINITY MAP

OWNER'S INFORMATION

1300 MAPLE STREET

THIS SITE PLAN IS SUPPLEMENTAL TO:

"TOPOGRAPHIC SURVEY"

1. TOPOGRAPHIC SURVEY BY F3 & ASSOCIATES, INC.,

"MAPLE STREET CORRECTIONAL CENTER"
1300 MAPLE ST

THE CONTRACTOR SHALL REFER TO THE ABOVE NOTED SURVEY AND PLAN, AND SHALL VERIFY BOTH EXISTING AND

AS-BUILT PLAN BY TELAMON ENGINEERING CONSULTANTS

REDWOOD CITY, CA

APN: 052-392-580

REFERENCES

1300 MAPLE ST

INC. ENTITLED:

REDWOOD CITY, USA DATED: MAY 2013

REDWOOD CITY, USA

PROJECT NO. 12.04009.00

PROPOSED ITEMS ACCORDING TO THEM

DATED: MAY 2014

SAN MATEO COUNTY - MAPLE STREET CORRECTIONAL FACILITY



LEA & BRAZE ENGINEERING, INC. MAIN OFFICE: 2495 INDUSTRIAL PKWY WEST HAYWARD, CALIFORNIA 94545 (510) 887-4086

WWW.LEABRAZE.COM



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Maple Street Correctional Facility 1300 Maple St Redwood City, CA 94063

Solar Shade Structure

4/14/2021 Issued For Permit Plan Check Resubmittal

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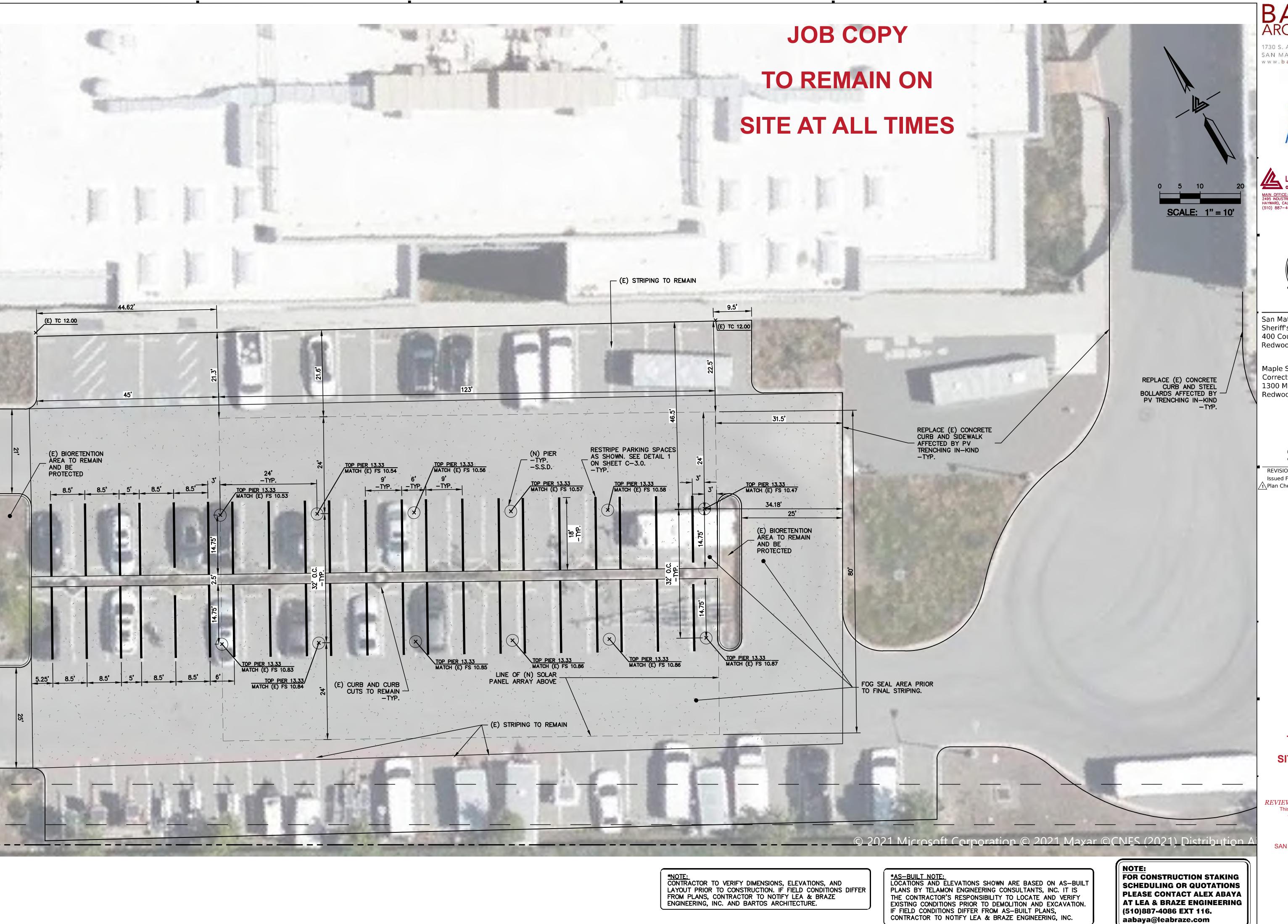
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Title Sheet

C1.0



BARTOS
ARCHITECTURE

1730 S. AMPHLETT BLVD, SUITE 225 SAN MATEO, CALIFORNIA 94402 www.bartosarchitecture.com



LEA & BRAZE ENGINEERING, INC.

CIVIL ENGINEERS I LAND SURVEYORS

MAIN OFFICE:
2495 INDUSTRIAL PKWY WEST ROSEVILLE

REGIONAL OFFICES:
ROSEVILLE

ROSEVILLE

MAIN OFFICE:
2495 INDUSTRIAL PKWY WEST
HAYWARD, CALIFORNIA 94545
(510) 887-4086

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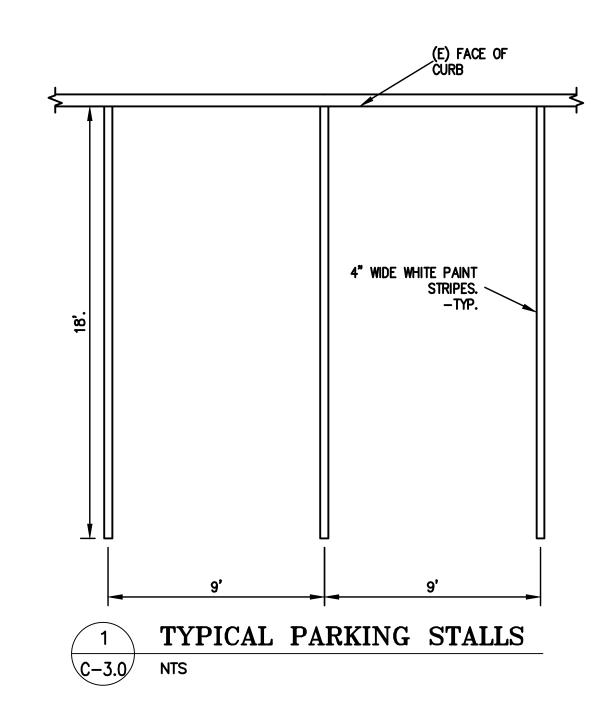
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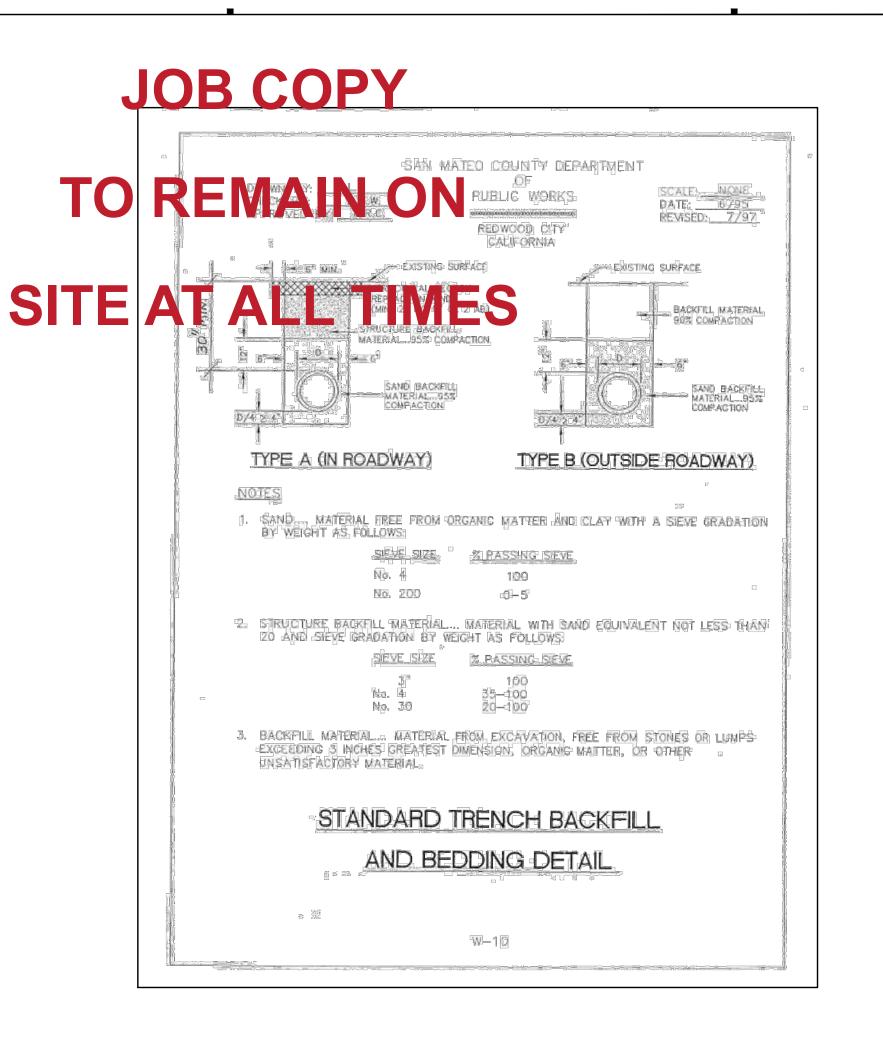
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Site Plan

C2.0



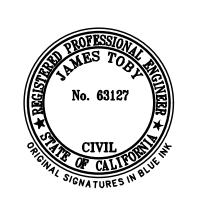




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Solar Shade Structure

REVISION DATE

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Jun 21 2023

SAN MATEO CO. BLDG. INSP. DIV.

Details

C3.0

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GENERAL NOTES

ALL GENERAL NOTES, SHEET NOTES, AND LEGEND NOTES FOUND IN THESE DOCUMENTS SHALL APPLY TYPICALLY THROUGHOUT. IF INCONSISTENCIES ARE FOUND IN THE VARIOUS NOTATIONS, NOTIFY THE ENGINEER IMMEDIATELY IN WRITING REQUESTING CLARIFICATION.

THESE DRAWINGS AND THEIR CONTENT ARE AND SHALL REMAIN THE PROPERTY OF LEA AND BRAZE ENGINEERING, INC. WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE NOT TO BE USED BY ANY PERSONS ON OTHER PROJECTS OR EXTENSIONS OF THE PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ENGINEER.

ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND TRADE STANDARDS WHICH GOVERN EACH PHASE OF WORK INCLUDING. BUT NOT LIMITED TO, CALIFORNIA MECHANICAL CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE, CALTRANS STANDARDS AND SPECIFICATIONS, AND ALL APPLICABLE STATE AND/OR LOCAL CODES AND/OR LEGISLATION.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND ALL SUBCONTRACTORS TO CHECK AND VERIFY ALL CONDITIONS, DIMENSIONS, LINES AND LEVELS INDICATED. PROPER FIT AND ATTACHMENT OF ALL PARTS IS REQUIRED. SHOULD THERE BE ANY DISCREPANCIES, IMMEDIATELY NOTIFY THE ENGINEER FOR CORRECTION OR ADJUSTMENT THE EVENT OF FAILURE TO DO SO, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERROR.

ALL DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE JOB BY EACH SUBCONTRACTOR BEFORE HE/SHE BEGINS HIS/HER WORK. ANY ERRORS, OMISSION, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/CONTRACTOR BEFORE CONSTRUCTION BEGINS.

COMMENCEMENT OF WORK BY THE CONTRACTOR AND/OR ANY SUBCONTRACTOR SHALL INDICATE KNOWLEDGE AND ACCEPTANCE OF ALL CONDITIONS DESCRIBED IN THESE CONSTRUCTION DOCUMENTS, OR EXISTING ON SITE, WHICH COULD AFFECT THEIR WORK.

WORK SEQUENCE

IN THE EVENT ANY SPECIAL SEQUENCING OF THE WORK IS REQUIRED BY THE OWNER OR THE CONTRACTOR, THE CONTRACTOR SHALL ARRANGE A CONFERENCE BEFORE ANY SUCH WORK IS BEGUN.

SITE EXAMINATION: THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL THOROUGHLY EXAMINE THE SITE AND FAMILIARIZE HIM/HERSELF WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL VERIFY AT THE SITE ALL MEASUREMENTS AFFECTING HIS/HER WORK AND SHALL BE RESPONSIBLE FOR THE CORRECTIONS OF THE SAME. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR EXPENSES DUE TO HIS/HER NEGLECT TO EXAMINE, OR FAILURE TO DISCOVER, CONDITIONS WHICH AFFECT HIS/HER WORK.

LEA AND BRAZE ENGINEERING, INC. EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO A THIRD PARTY WITHOUT FIRST OBTAINING THE WRITTEN PERMISSION AND CONSENT OF LEA AND BRAZE ENGINEERING, INC. IN THE EVENT OF UNAUTHORIZED REUSE OF THESE PLANS BY A THIRD PARTY, THE THIRD PARTY SHALL HOLD HARMLESS LEA AND BRAZE ENGINEERING, INC.

CONSTRUCTION IS ALWAYS LESS THAN PERFECT SINCE PROJECTS REQUIRE THE COORDINATION AND INSTALLATION OF MANY INDIVIDUAL COMPONENTS BY VARIOUS CONSTRUCTION INDUSTRY TRADES. THESE DOCUMENTS CANNOT PORTRAY ALL COMPONENTS OR ASSEMBLIES EXACTLY. IT IS THE INTENTION OF THESE ENGINEERING DOCUMENTS THAT THEY REPRESENT A REASONABLE STANDARD OF CARE IN THEIR CONTENT. IT IS ALSO PRESUMED BY THESE DOCUMENTS THAT CONSTRUCTION REVIEW SERVICES WILL BE PROVIDED BY THE ENGINEER. SHOULD THE OWNER NOT RETAIN THE ENGINEER TO PROVIDE SUCH SERVICES, OR SHOULD HE/SHE RETAIN THE ENGINEER TO PROVIDE ONLY PARTIAL OR LIMITED SERVICES, THEN IT SHALL BE THE OWNER'S AND CONTRACTOR'S RESPONSIBILITY TO FULLY RECOGNIZE AND PROVIDE THAT STANDARD OF CARE.

IF THE OWNER OR CONTRACTOR OBSERVES OR OTHERWISE BECOMES AWARE OF ANY FAULT OR DEFECT IN THE PROJECT OR NONCONFORMANCE WITH THE CONTRACT DOCUMENTS, PROMPT WRITTEN NOTICE THEREOF SHALL BE GIVEN BY THE OWNER AND/OR CONTRACTOR TO THE ENGINEER.

THE ENGINEER SHALL NOT HAVE CONTROL OF OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS. METHODS. TECHNIQUES. SEQUENCES. OR PROCEDURES. OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS

SITE PROTECTION

PROTECT ALL LANDSCAPING THAT IS TO REMAIN. ANY DAMAGE OR LOSS RESULTING FROM EXCAVATION, GRADING, OR CONSTRUCTION WORK SHALL BE CORRECTED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING SITE UTILITIES AND SHALL COORDINATE THEIR REMOVAL OR MODIFICATIONS (IF ANY) TO AVOID ANY INTERRUPTION OF SERVICE TO ADJACENT AREAS. THE GENERAL CONTRACTOR SHALL INFORM HIM/HERSELF OF MUNICIPAL REGULATIONS AND CARRY OUT HIS/HER WORK IN COMPLIANCE WITH ALL FEDERAL AND STATE REQUIREMENTS TO REDUCE FIRE HAZARDS AND INJURIES TO THE PUBLIC.

STORMWATER POLLUTION PREVENTION NOTES

- 1) STORE, HANDLE, AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES PROPERLY, SO AS TO PREVENT THEIR CONTACT WITH STORMWATER.
- 2) CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING SOLID WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASH WATER OR SEDIMENT, AND NON-STORMWATER DISCHARGES TO STORM DRAINS AND WATER COURSES.
- 3) USE SEDIMENT CONTROL OR FILTRATION TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
- 4) AVOID CLEANING, FUELING, OR MAINTAINING VEHICLES ON SITE, EXCEPT IN A DESIGNATED AREA IN WHICH RUNOFF IS CONTAINED AND TREATED.
- 5) DELINEATE CLEARING LIMITS, EASEMENTS, SETBACKS, SENSITIVE OR CRITICAL AREAS, BUFFER ZONES, TREES AND DISCHARGE COURSE WITH FIELD MARKERS.
- 6) PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE
- BUFFER STRIPS, SEDIMENT BARRIERS OF FILTERS, DIKES, MULCHING, OR OTHER MEASURES AS APPROPRIATE.
- 7) PERFORM CLEARING AND EARTH MOVING ACTIVITIES DURING DRY WEATHER TO THE MAXIMUM EXTENT PRACTICAL.
- 8) LIMIT AND TIME APPLICATIONS OF PESTICIDES AND FERTILIZERS TO PREVENT POLLUTED RUNOFF.
- 9) LIMIT CONSTRUCTION ACCESS ROUTES AND STABILIZE DESIGNATED ACCESS POINTS.
- 10) AVOID TRACKING DIRT OR MATERIALS OFF-SITE; CLEAN OFF-SITE PAVED AREAS AND SIDEWALKS USING DRY SWEEPING METHODS TO THE MAXIMUM EXTENT PRACTICAL.

SUPPLEMENTAL MEASURES

- A. THE PHRASE "NO DUMPING DRAINS TO BAY" OR EQUALLY EFFECTIVE PHRASE MUST BE LABELED ON STORM DRAIN INLETS (BY STENCILING, BRANDING, OR PLAQUES) TO ALERT THE PUBLIC TO THE DESTINATION OF STORM WATER AND TO PREVENT DIRECT DISCHARGE OF POLLUTANTS INTO THE STORM DRAIN.
- B. USING FILTRATION MATERIALS ON STORM DRAIN COVERS TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
- C. STABILIZING ALL DENUDED AREAS AND MAINTAINING EROSION CONTROL MEASURES CONTINUOUSLY FROM OCTOBER 15 AND APRIL 15.
- D. REMOVING SPOILS PROMPTLY, AND AVOID STOCKPILING OF FILL MATERIALS, WHEN RAIN IS FORECAST. IF RAIN THREATENS, STOCKPILED SOILS AND OTHER MATERIALS SHALL BE COVERED WITH A TARP OR OTHER
- E. STORING, HANDLING, AND DISPOSING OF CONSTRUCTION MATERIALS AND WASTES SO AS TO AVOID THEIR ENTRY TO THE STORM DRAIN SYSTEMS OR WATER BODY.
- F. AVOIDING CLEANING, FUELING, OR MAINTAINING VEHICLES ON-SITE, EXCEPT IN AN AREA DESIGNATED TO CONTAIN AND TREAT RUNOFF.

GRADING & DRAINAGE NOTES:

1. SCOPE OF WORK

THESE SPECIFICATIONS AND APPLICABLE PLANS PERTAIN TO AND INCLUDE ALL SITE GRADING AND EARTHWORK ASSOCIATED WITH THE PROJECT INCLUDING, BUT NOT LIMITED TO THE FURNISHING OF ALL LABOR, TOOLS AND EQUIPMENT NECESSARY FOR SITE CLEARING AND GRUBBING, SITE PREPARATION, DISPOSAL OF EXCESS OR UNSUITABLE MATERIAL, STRIPPING, KEYING, EXCAVATION, OVER EXCAVATION, RECOMPACTION PREPARATION FOR SOIL RECEIVING FILL. PAVEMENT, FOUNDATION OF SLABS, EXCAVATION, IMPORTATION OF ANY REQUIRED FILL MATERIAL, PROCESSING, PLACEMENT AND COMPACTION OF FILL AND SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING TO CONFORM TO THE LINES, GRADING AND SLOPE SHOWN ON THE PROJECT GRADING PLANS.

- A. ALL SITE GRADING AND EARTHWORK SHALL CONFORM TO THE RECOMMENDATIONS OF THESE SPECIFICATIONS, THE SOILS REPORT BY ENGEO, INC.; AND THE COUNTY OF SAN MATEO.
- B. ALL FILL MATERIALS SHALL BE DENSIFIED SO AS TO PRODUCE A DENSITY NOT LESS THAN 90% RELATIVE COMPACTION BASED UPON ASTM TEST DESIGNATION D1557. FIELD DENSITY TEST WILL BE PERFORMED IN ACCORDANCE WITH ASTM TEST DESIGNATION 2922 AND 3017. THE LOCATION AND FREQUENCY OF THE FIELD DENSITY TEST WILL BE AS DETERMINED BY THE SOIL ENGINEER. THE RESULTS OF THESE TEST AND COMPLIANCE WITH THE SPECIFICATIONS WILL BE THE BASIS UPON WHICH SATISFACTORY COMPLETION OF THE WORK WILL BE JUDGED BY THE SOIL ENGINEER. ALL CUT AND FILL SLOPES SHALL BE CONSTRUCTED AS SHOWN ON PLANS, BUT NO STEEPER THAN TWO (2) HORIZONTAL TO ONE (1) VERTICAL.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SATISFACTORY COMPLETION OF ALL THE EARTHWORK IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. NO DEVIATION FROM THESE SPECIFICATIONS SHALL BE MADE EXCEPT UPON WRITTEN APPROVAL BY THE SOILS ENGINEER. BOTH CUT AND FILL AREAS SHALL BE SURFACE COMPLETED TO THE SATISFACTION OF THE SOILS ENGINEER AT THE CONCLUSION OF ALL GRADING OPERATIONS AND PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL NOTIFY THE SOILS ENGINEER AT LEAST TWO (2) WORKING DAYS PRIOR TO DOING ANY SITE GRADING AND EARTHWORK INCLUDING CLEARING.

3. <u>CLEARING AND GRUBBING</u>

- A. THE CONTRACTOR SHALL ACCEPT THE SITE IN ITS PRESENT CONDITION. ALL EXISTING PUBLIC IMPROVEMENTS SHALL BE PROTECTED. ANY IMPROVEMENTS DAMAGED SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE LOCAL JURISDICTION WITH NO EXTRA COMPENSATION.
- B. ALL ABANDONED BUILDINGS AND FOUNDATIONS, TREE (EXCEPT THOSE SPECIFIED TO REMAIN FOR LANDSCAPING PURPOSES), FENCES, VEGETATION AND ANY SURFACE DEBRIS SHALL BE REMOVED AND DISPOSED OF OFF THE SITE BY THE CONTRACTOR.
- C. ALL ABANDONED SEPTIC TANKS AND ANY OTHER SUBSURFACE STRUCTURES EXISTING IN PROPOSED DEVELOPMENT AREAS SHALL BE REMOVED PRIOR TO ANY GRADING OR FILL OPERATION. ALL APPURTENANT DRAIN FIELDS AND OTHER CONNECTING LINES MUST ALSO BE TOTALLY REMOVED.
- D. ALL ABANDONED UNDERGROUND IRRIGATION OR UTILITY LINES SHALL BE REMOVED OR DEMOLISHED. THE APPROPRIATE FINAL DISPOSITION OF SUCH LINES DEPEND UPON THEIR DEPTH AND LOCATION AND THE METHOD OF REMOVAL OR DEMOLITION SHALL BE DETERMINED BY THE SOILS ENGINEER. ONE OF THE FOLLOWING METHODS WILL BE USED:
 - (1) EXCAVATE AND TOTALLY REMOVE THE UTILITY LINE FROM THE TRENCH.
 - (2) EXCAVATE AND CRUSH THE UTILITY LINE IN THE TRENCH.
 - (3) CAP THE ENDS OF THE UTILITY LINE WITH CONCRETE TO PREVENT THE ENTRANCE OF WATER. THE LOCATIONS AT WHICH THE UTILITY LINE WILL BE CAPPED WILL BE DETERMINED BY THE UTILITY DISTRICT ENGINEER. THE LENGTH OF THE CAP SHALL NOT BE LESS THAN FIVE FEET, AND THE CONCRETED MIX EMPLOYED SHALL HAVE MINIMUM SHRINKAGE.

4. SITE PREPARATION AND STRIPPING

- A. ALL SURFACE ORGANICS SHALL BE STRIPPED AND REMOVED FROM BUILDING PADS, AREAS TO RECEIVE COMPACTED FILL AND PAVEMENT AREAS.
- B. UPON THE COMPLETION OF THE ORGANIC STRIPPING OPERATION, THE GROUND SURFACE (NATIVE SOIL SUBGRADE) OVER THE ENTIRE AREA OF ALL BUILDING PADS, STREET AND PAVEMENT AREAS AND ALL AREAS TO RECEIVE COMPACTED FILL SHALL BE PLOWED OR SCARIFIED UNTIL THE SURFACE IS FREE OF RUTS, HUMMOCKS OR OTHER UNEVEN FEATURES WHICH MAY INHIBIT UNIFORM SOIL COMPACTION. THE GROUND SURFACE SHALL THEN BE DISCED OR BLADED TO A DEPTH OF AT LEAST 6 INCHES. UPON ENGINEER'S SATISFACTION, THE NEW SURFACE SHALL BE WATER CONDITIONED AND RECOMPACTED PER REQUIREMENTS FOR COMPACTING FILL MATERIAL.

5. EXCAVATION

- A. UPON COMPLETION OF THE CLEARING AND GRUBBING, SITE PREPARATION AND STRIPPING, THE CONTRACTOR SHALL MAKE EXCAVATIONS TO LINES AND GRADES NOTED ON THE PLAN. WHERE REQUIRED BY THE SOILS ENGINEER, UNACCEPTABLE NATIVE SOILS OR UNENGINEERED FILL SHALL BE OVER EXCAVATED BELOW THE DESIGN GRADE. SEE PROJECT SOILS REPORT FOR DISCUSSION OF OVER EXCAVATION OF THE UNACCEPTABLE MATERIAL. RESULTING GROUND LINE SHALL BE SCARIFIED. MOISTURE-CONDITIONED AND RECOMPACTED AS SPECIFIED IN SECTION 4 OF THESE SPECIFICATIONS. COMPACTED FILL MATERIAL SHALL BE PLACED TO BRING GROUND LEVEL BACK TO DESIGN GRADE.
- B. EXCAVATED MATERIALS SUITABLE FOR COMPACTED FILL MATERIAL SHALL BE UTILIZED IN MAKING THE REQUIRED COMPACTED FILLS. THOSE NATIVE MATERIALS CONSIDERED UNSUITABLE BY THE SOILS ENGINEER SHALL BE DISPOSED OF OFF THE SITE BY THE CONTRACTOR.

PLACING. SPREADING AND COMPACTING FILL MATERIA. RELIGIOUS RELIGIOU

A. FILL MATERIALS

THE MATERIALS PROPOSED FOR USE AS COMPACTED FILL SHALL BE APPROVED BY THE SOILS ENGINEER BEFORE COMMENCEMENT OF GRADING OPERATIONS. THE NATIVE MATERIAL IS CONSIDERED SUITABLE FOR FILL; HOWEVER, ANY NATIVE MATERIAL DESIGNATED UNSUITABLE BY THE SOILS ENGINEER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTO CONTINUE DISCUSSION OF THE SOILS ENGINEER, IN WRITING, BEFORE EINC IMPORTED TO THE SITE AND SHALL BE TRUE OF VEGETATIVE AND SHALL BE TRUE OF VEGETATIVE AND ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS. ALL FILL VOIDS SHALL BE FILLED AND PROPERLY COMPACTED. NO ROCKS LARGER THAN THREE INCHES IN DIAMETER SHALL BE PERMITTED.

B. FILL CONSTRUCTION

THE SOILS ENGINEER SHALL APPROVE THE NATIVE SOIL SUBGRADE BEFORE PLACEMENT OF ANY COMPACTED FILL MATERIAL. UNACCEPTABLE NATIVE SOIL SHALL BE REMOVED AS DIRECTED BY THE SOILS ENGINEER. THE RESULTING GROUND LINE SHALL BE SCARIFIED MOISTURE CONDITIONED AND RECOMPACTED AS SPECIFIED IN SECTION 4 OF THESE SPECIFICATIONS. COMPACTED FILL MATERIAL SHALL BE PLACED TO BRING GROUND LEVEL BACK TO DESIGN GRADE. GROUND PREPARATION SHALL BE FOLLOWED CLOSELY BY FILL PLACEMENT TO PREVENT DRYING OUT OF THE SUBSOIL BEFORE PLACEMENT OF THE FILL.

THE APPROVED FILL MATERIALS SHALL BE PLACED IN UNIFORM HORIZONTAL LAYERS NO THICKER THAN 8" IN LOOSE THICKNESS. LAYERS SHALL BE SPREAD EVENLY AND SHALL BE THOROUGHLY BLADE MIXED DURING THE SPREADING TO ENSURE UNIFORMITY OF MATERIAL IN EACH LAYER. THE SCARIFIED SUBGRADE AND FILL MATERIAL SHALL BE MOISTURE CONDITIONED TO AT LEAST OPTIMUM MOISTURE. WHEN THE MOISTURE CONTENT OF THE FILL IS BELOW THAT SPECIFIED, WATER SHALL BE ADDED UNTIL THE MOISTURE DURING THE COMPACTION PROCESS. WHEN THE MOISTURE CONTENT OF THE FILL IS ABOVE THAT SPECIFIED, THE FILL MATERIAL SHALL BE AERATED BY BLADING OR OTHER SATISFACTORY METHODS UNTIL THE MOISTURE CONTENT IS AS SPECIFIED.

AFTER EACH LAYER HAS BEEN PLACED, MIXED, SPREAD EVENLY AND MOISTURE CONDITIONED, IT SHALL BE COMPACTED TO AT LEAST THE SPECIFIED DENSITY.

THE FILL OPERATION SHALL BE CONTINUED IN COMPACTED LAYERS AS SPECIFIED ABOVE UNTIL THE FILL HAS BEEN BROUGHT TO THE FINISHED SLOPES AND GRADES AS SHOWN ON THE PLANS. NO LAYER SHALL BE ALLOWED TO DRY OUT BEFORE SUBSEQUENT LAYERS ARE PLACED.

COMPACTION EQUIPMENT SHALL BE OF SUCH DESIGN THAT IT WILL BE ABLE TO COMPACT THE FILL TO THE SPECIFIED MINIMUM COMPACTION WITHIN THE SPECIFIED MOISTURE CONTENT RANGE. COMPACTION OF EACH LAYER SHALL BE CONTINUOUS OVER ITS ENTIRE AREA UNTIL THE REQUIRED MINIMUM DENSITY HAS BEEN OBTAINED.

7. <u>CUT OR FILL SLOPES</u>

ALL CONSTRUCTED SLOPES, BOTH CUT AND FILL, SHALL BE NO STEEPER THAN 2 TO 1 (HORIZONTAL TO VERTICAL). DURING THE GRADING OPERATION, COMPACTED FILL SLOPES SHALL BE OVERFILLED BY AT LEAST ONE FOOT HORIZONTALLY AT THE COMPLETION OF THE GRADING OPERATIONS, THE EXCESS FILL EXISTING ON THE SLOPES SHALL BE BLADED OFF TO CREATE THE FINISHED SLOPE EMBANKMENT. ALL CUT AND FILL SLOPES SHALL BE TRACK WALKED AFTER BEING BROUGHT TO FINISH GRADE AND THEN BE PLANTED WITH EROSION CONTROL SLOPE PLANTING. THE SOILS ENGINEER SHALL REVIEW ALL CUT SLOPES TO DETERMINE IF ANY ADVERSE GEOLOGIC CONDITIONS ARE EXPOSED. IF SUCH CONDITIONS DO OCCUR, THE SOILS ENGINEER SHALL RECOMMEND THE APPROPRIATE MITIGATION MEASURES AT THE TIME OF THEIR DETECTION.

8. <u>SEASONAL LIMITS AND DRAINAGE CONTROL</u>

FILL MATERIALS SHALL NOT BE PLACED, SPREAD OR COMPACTED WHILE IT IS AT AN UNSUITABLY HIGH MOISTURE CONTENT OR DURING OTHERWISE UNFAVORABLE CONDITIONS. WHEN THE WORK IS Interrupted for any reason the fill operations shall not be resumed until field test PERFORMED BY THE SOILS ENGINEER INDICATE THAT THE MOISTURE CONDITIONS IN AREAS TO BE FILLED ARE AS PREVIOUSLY SPECIFIED. ALL EARTH MOVING AND WORKING OPERATIONS SHALL BE CONTROLLED TO PREVENT WATER FROM RUNNING INTO EXCAVATED AREAS. ALL EXCESS WATER SHALL BE PROMPTLY REMOVED AND THE SITE KEPT DRY.

9. DUST CONTROL

THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY FOR THE ALLEVIATION OR PREVENTION OF ANY DUST NUISANCE ON OR ABOUT THE SITE CAUSED BY THE CONTRACTOR'S OPERATION EITHER DURING THE PERFORMANCE OF THE GRADING OR RESULTING FROM THE CONDITION IN WHICH THE CONTRACTOR LEAVES THE SITE. THE CONTRACTOR SHALL ASSUME ALL LIABILITY INCLUDING COURT COST OF CO-DEFENDANTS FOR ALL CLAIMS RELATED TO DUST OR WIND-BLOWN MATERIALS ATTRIBUTABLE TO HIS WORK. COST FOR THIS ITEM OF WORK IS TO BE INCLUDED IN THE EXCAVATION ITEM AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

10. <u>INDEMNITY</u>

THE CONTRACTOR WILL HOLD HARMLESS, INDEMNIFY AND DEFEND THE ENGINEER, THE OWNER AND HIS CONSULTANTS AND EACH OF THEIR OFFICERS AND EMPLOYEES AND AGENTS, FROM ANY AND ALL LIABILITY CLAIMS, LOSSES OR DAMAGE ARISING OR ALLEGED TO HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, THE ARCHITECT, THE ENGINEER AND HIS CONSULTANTS AND EACH OF THEIR OFFICERS AND EMPLOYEES AND AGENTS.

11. <u>SAFETY</u>

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK, THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

THE DUTY OF THE ENGINEERS TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.

netther the final payment, nor the provisions in the contract, nor partial, nor entire use OR OCCUPANCY OF THE PREMISES BY THE OWNER SHALL CONSTITUTE AN ACCEPTANCE OF THE WORK NOT DONE IN ACCORDANCE WITH THE CONTRACT OR RELIEVES THE CONTRACTOR OF LIABILITY IN RESPECT TO ANY EXPRESS WARRANTIES OR RESPONSIBILITY FOR FAULTY MATERIAL OR WORKMANSHIP.

IE COUTRACTOR SHALL REMEDY ANY DEFECTS IN WORK AND PAY FOR ANY DAMAGE TO OTHER WORK FESULTING HERE FROM WHICH SHALL APPEAR WITHIN A PERIOD OF ONE (1) CALENDAR YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.

13. TRENCH BACKFILL

EITHER THE ON-SITE INORGANIC SOIL OR APPROVED IMPORTED SOIL MAY BE USED AS TRENCH BACKFILL. THE BACKFILL MATERIAL SHALL BE MOISTURE CONDITIONED PER THESE SPECIFICATIONS AND SHALL BE PLACED IN LIFTS OF NOT MORE THAN SIX INCHES IN HORIZONTAL UNCOMPACTED LAYERS AND BE COMPACTED BY MECHANICAL MEANS TO A MINIMUM OF 90% RELATIVE COMPACTION. IMPORTED SAND MAY BE USED FOR TRENCH BACKFILL MATERIAL PROVIDED IT IS COMPACTED TO AT LEAST 90% RELATIVE COMPACTION. WATER JETTING ASSOCIATED WITH COMPACTION USING VIBRATORY EQUIPMENT WILL BE PERMITTED ONLY WITH IMPORTED SAND BACKFILL WITH THE APPROVAL OF THE SOILS ENGINEER. ALL PIPES SHALL BE BEDDED WITH SAND EXTENDING FROM THE TRENCH BOTTOM TO TWELVE INCHES ABOVE THE PIPE. SAND BEDDING IS TO BE COMPACTED AS SPECIFIED ABOVE FOR SAND BACKFILL.

14. EROSION CONTROL

- A. ALL GRADING, EROSION AND SEDIMENT CONTROL AND RELATED WORK UNDERTAKEN ON THIS SITE IS SUBJECT TO ALL TERMS AND CONDITIONS OF THE COUNTY GRADING ORDINANCE AND MADE A PART HEREOF BY REFERENCE.
- B. THE CONTRACTOR WILL BE LIABLE FOR ANY AND ALL DAMAGES TO ANY PUBLICLY OWNED AND MAINTAINED ROAD CAUSED BY THE AFORESAID CONTRACTOR'S GRADING ACTIVITIES, AND SHALL BE RESPONSIBLE FOR THE CLEANUP OF ANY MATERIAL SPILLED ON ANY PUBLIC ROAD ON THE HAUL ROUTE.
- C. THE EROSION CONTROL MEASURES ARE TO BE OPERABLE DURING THE RAINY SEASON, GENERALLY FROM OCTOBER FIRST TO APRIL FIFTEENTH. EROSION CONTROL PLANTING IS TO BE COMPLETED BY OCTOBER FIRST. NO GRADING OR UTILITY TRENCHING SHALL OCCUR BETWEEN OCTOBER FIRST AND APRIL FIFTEENTH UNLESS AUTHORIZED BY THE LOCAL JURISDICTION.
- D. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED AND CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE SOILS ENGINEER.
- E. DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM
- F. ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED AT THE END OF EACH WORKING DAY DURING THE RAINY SEASON.
- G. WHEN NO LONGER NECESSARY AND PRIOR TO FINAL ACCEPTANCE OF DEVELOPMENT, SEDIMENT BASINS SHALL BE REMOVED OR OTHERWISE DEACTIVATED AS REQUIRED BY THE LOCAL JURISDICTION.
- H. A CONSTRUCTION ENTRANCE SHALL BE PROVIDED AT ANY POINT OF EGRESS FROM THE SITE TO ROADWAY. A CONSTRUCTION ENTRANCE SHOULD BE COMPOSED OF COARSE DRAIN ROCK (2" TO 3") MINIMUM DIAMETER) AT LEAST EIGHT INCHES THICK BY FIFTY (50) FEET LONG BY TWENTY (20) FEET WIDE UNLESS SHOWN OTHERWISE ON PLAN AND SHALL BE MAINTAINED UNTIL THE SITE IS PAVED.
- I. ALL AREAS SPECIFIED FOR HYDROSEEDING SHALL BE NOZZLE PLANTED WITH STABILIZATION MATERIAL CONSISTING OF FIBER, SEED, FERTILIZER AND WATER, MIXED AND APPLIED IN THE FOLLOWING

FIBER, 2000 LBS/ACRE SEED, 200 LBS/ACRE (SEE NOTE J, BELOW) FERTILIZER (11-8-4), 500 LBS/ACRE WATER, AS REQUIRED FOR APPLICATION

J. SEED MIX SHALL BE PER CALTRANS STANDARDS.

TRANSPORTATION, AS LAST REVISED.

- K. WATER UTILIZED IN THE STABILIZATION MATERIAL SHALL BE OF SUCH QUALITY THAT IT WILL PROMOTE GERMINATION AND STIMULATE GROWTH OF PLANTS. IT SHALL BE FREE OF POLLUTANT MATERIALS AND
- L. HYDROSEEDING SHALL CONFORM TO THE PROVISIONS OF SECTION 20, EROSION CONTROL AND HIGHWAY PLANTING", OF THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA DEPARTMENT OF
- M. A DISPERSING AGENT MAY BE ADDED TO THE HYDROSEEDING MATERIAL, PROVIDED THAT THE CONTRACTOR FURNISHES SUITABLE EVIDENCE THAT THE ADDITIVE WILL NOT ADVERSELY AFFECT THE PERFORMANCE OF THE SEEDING MIXTURE.
- N. STABILIZATION MATERIALS SHALL BE APPLIED AS SOON AS PRACTICABLE AFTER COMPLETION OF GRADING OPERATIONS AND PRIOR TO THE ONSET OF WINTER RAINS, OR AT SUCH OTHER TIME AS DIRECTED BY THE COUNTY ENGINEER. THE MATERIAL SHALL BE APPLIED BEFORE INSTALLATION OF OTHER
- O. THE STABILIZATION MATERIAL SHALL BE APPLIED WITHIN 4-HOURS AFTER MIXING, MIXED MATERIAL NOT USED WITHIN 4—HOURS SHALL BE REMOVED FROM THE SITE.

LANDSCAPING MATERIALS SUCH AS TREES, SHRUBS AND GROUND COVERS.

P. THE CONTRACTOR SHALL MAINTAIN THE SOIL STABILIZATION MATERIAL AFTER PLACEMENT. THE COUNTY ENGINEER MAY REQUIRE SPRAY APPLICATION OF WATER OR OTHER MAINTENANCE ACTIVITIES TO ASSURE THE EFFECTIVENESS OF THE STABILIZATION PROCESS. APPLICATION OF WATER SHALL BE ACCOMPLISHED USING NOZZLES THAT PRODUCE A SPRAY THAT DOES NOT CONCENTRATE OR WASH AWAY THE STABILIZATION MATERIALS.

15. <u>CLEANUP</u>

THE CONTRACTOR MUST MAINTAIN THE SITE CLEAN, SAFE AND IN USABLE CONDITION. ANY SPILLS OF SOIL ROCK OR CONSTRUCTION MATERIAL MUST BE REMOVED FROM THE SITE BY THE CONTRACTOR DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. COST FOR THIS ITEM OF WORK SHALL BE INCLUDED IN THE EXCAVATION AND COMPACTION ITEM AND NO ADDITIONAL COMPENSATION SHALL

> NOTE:
> THESE NOTES ARE INTENDED TO BE USED AS A GENERAL GUIDELINE. THE REFERENCED SOILS REPORT FOR THE PROJECT AND GOVERNING AGENCY GRADING ORDINANCE SHALL SUPERSEDE THESE NOTES. THE SOILS ENGINEER MAY MAKE ON-SITE RECOMMENDATIONS DURING GRADING OPERATIONS.

1730 S. AMPHLETT BLVD, SUITE 225 SAN MATEO, CALIFORNIA 94402 www.bartosarchitecture.com





CIVIL ENGINEERS I LAND SURVEYORS

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SAN JOSE



San Mateo County Sheriff's Office 400 County Center Redwood City, CA

MAIN OFFICE: 2495 INDUSTRIAL PKWY WEST

HAYWARD, CALIFORNIA 94545

(510) 887-4086

Maple Street Correctional Facility 1300 Maple St Redwood City, CA 94063

Structure

REVISION Issued For Permit 4/14/2021 \ Plan Check Resubmittal 11/11/2021

RECEIVED

San Mateo County

Jun 21 2023

Building Inspection

JOB COPY

SITE AT ALL TIMES

TO REMAIN ON

REVIEWED FOR CODE COMPLIANCE This review does not authorize violation of State or County building laws.

Jun 21 2023 SAN MATEO CO. BLDG. INSP. DIV.

PURPOSE:

THE PURPOSE OF THIS PLAN IS TO STABILIZE THE SITE TO PREVENT EROSION OF GRADED AREAS AND TO PREVENT SEDIMENTATION FROM LEAVING THE CONSTRUCTION AREA AND AFFECTING NEIGHBORING SITES, NATURAL AREAS, PUBLIC FACILITIES OR ANY OTHER AREA THAT MIGHT BE AFFECTED BY SEDIMENTATION. ALL MEASURES SHOWN ON THIS PLAN SHOULD BE CONSIDERED THE MINIMUM REQUIREMENTS NECESSARY. SHOULD FIELD CONDITIONS DICTATE ADDITIONAL MEASURES, SUCH MEASURES SHALL BE PER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL AND THE CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION. LEA & BRAZE ENGINEERING SHOULD BE NOTIFIED IMMEDIATELY SHOULD CONDITIONS CHANGE.

EROSION CONTROL NOTES:

- 1. IT SHALL BE THE OWNER'S/CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CONTROL OF THE ENTIRE CONSTRUCTION OPERATION AND TO KEEP THE ENTIRE SITE IN COMPLIANCE WITH THIS EROSION CONTROL PLAN.
- 2. THE INTENTION OF THIS PLAN IS FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY. ALL EROSION CONTROL MEASURES SHALL CONFORM TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL, THE CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION, AND THE LOCAL GOVERNING AGENCY FOR THIS
- 3. OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO, DURING, AND AFTER STORM EVENTS. PERSON IN CHARGE OF MAINTAINING EROSION CONTROL MEASURES SHOULD WATCH LOCAL WEATHER REPORTS AND ACT APPROPRIATELY TO MAKE SURE ALL NECESSARY MEASURES ARE IN PLACE.
- 4. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 5. DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM, INCLUDING EXISTING DRAINAGE SWALES AND WATERCOURSES.
- 6. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. COMPLIANCE WITH FEDERAL, STATE AND LOCAL LAWS CONCERNING POLLUTION SHALL BE MAINTAINED AT ALL TIMES.
- 7. CONTRACTOR SHALL PROVIDE DUST CONTROL AS REQUIRED BY THE APPROPRIATE FEDERAL, STATE AND LOCAL AGENCY REQUIREMENTS.
- 8. ALL MATERIALS NECESSARY FOR THE APPROVED EROSION CONTROL MEASURES SHALL BE IN PLACE BY OCTOBER 15TH.
- 9. EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE RAINY SEASON, OR FROM OCTOBER 15TH THROUGH APRIL 15TH, WHICHEVER IS LONGER.
- 10. IN THE EVENT OF RAIN, ALL GRADING WORK IS TO CEASE IMMEDIATELY AND THE SITE IS TO BE SEALED IN ACCORDANCE WITH THE APPROVAL EROSION CONTROL MEASURES AND APPROVED EROSION CONTROL PLAN.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND REPAIRING EROSION CONTROL SYSTEMS AFTER EACH STORM.
- 12. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY LOCAL JURISDICTION'S ENGINEERING DEPARTMENT OR BUILDING OFFICIALS.
- 13. MEASURES SHALL BE TAKEN TO COLLECT OR CLEAN ANY ACCUMULATION OR DEPOSIT OF DIRT, MUD. SAND, ROCKS, GRAVEL OR DEBRIS ON THE SURFACE OF ANY STREET, ALLEY OR PUBLIC PLACE OR IN ANY PUBLIC STORM DRAIN SYSTEMS. THE REMOVAL OF AFORESAID SHALL BE DONE BY STREET SWEEPING OR HAND SWEEPING. WATER SHALL NOT BE USED TO WASH SEDIMENTS INTO PUBLIC OR PRIVATE DRAINAGE FACILITIES.
- 14. EROSION CONTROL MEASURES SHALL BE ON-SITE FROM SEPTEMBER 15TH THRU APRIL 15TH.
- 15. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE RAINY SEASON OR FROM OCTOBER 1 THROUGH APRIL 30T, WHICHEVER IS GREATER.
- 16. PLANS SHALL BE DESIGNED TO MEET C3 REQUIREMENTS OF THE MUNICIPAL STORMWATER REGIONAL PERMIT("MRP") NPDES PERMIT CAS 612008.
- 17. THE CONTRACTOR TO NPDES (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM) BEST MANAGEMENT PRACTICES (BMP) FOR SEDIMENTATION PREVENTION AND EROSION CONTROL TO PREVENT DELETERIOUS MATERIALS OR POLLUTANTS FROM ENTERING THE TOWN OR COUNTY STORM DRAIN SYSTEMS.
- 18. THE CONTRACTOR MUST INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE INCEPTION OF ANY WORK ONSITE AND MAINTAIN THE MEASURES UNTIL THE COMPLETION OF ALL LANDSCAPING.
- 19. THE CONTRACTOR SHALL MAINTAIN ADJACENT STREETS IN A NEAT, CLEAN DUST FREE AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF THE TOWN INSPECTOR. THE ADJACENT STREET SHALL AT ALL TIMES BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCE BEING CONTROLLED AT ALL TIMES. THE CONTRACTOR BE RESPONSIBLE FOR ANY CLEAN UP ON ADJACENT STREETS AFFECTED BY THE BY THEIR CONSTRUCTION, METHOD OF STREET CLEANING SHALL BE BY DRY SWEEPING OF ALL PAVED AREAS. NO STOCKPILING OF BUILDING MATERIALS WITHIN THE TOWN RIGHT-OF-WAY.
- 20. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONTRACTOR SHALL INSTALL A STABILIZED CONSTRUCTION ENTRANCE PRIOR TO THE INSPECTION OF ANY WORK ONSITE AND MAINTAIN IT FOR THE DURATION OF THE CONSTRUCTION PROCESS SO AS TO NOT INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC RIGHT-OF-WAY UNTIL THE COMPLETION OF ALL LANDSCAPING.
- 21. THE CONTRACTOR SHALL PROTECT DOWN SLOPE DRAINAGE COURSES, STREAMS AND STORM DRAINS WITH ROCK FILLED SAND BAGS, TEMPORARY SWALES, SILT FENCES, AND EARTH PERMS IN CONJUNCTION OF ALL LANDSCAPING.
- 22. STOCKPILED MATERIALS SHALL BE COVERED WITH VISQUEEN OR A TARPAULIN UNTIL THE MATERIAL IS REMOVED FROM THE SITE. ANY REMAINING BARE SOIL THAT EXISTS AFTER THE STOCKPILE HAS BEEN REMOVED SHALL BE COVERED UNTIL A NATURAL GROUND COVER IS ESTABLISHED OR IT IS SEEDED OR PLANTED TO PROVIDE GROUND COVER PRIOR TO THE FALL RAINY SEASON.
- 23. EXCESS OR WASTE CONCRETE MUST NOT BE WASHED INTO THE PUBLIC RIGHT-OF-WAYOR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- 24. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION AND DISPERSAL BY WIND

EROSION CONTROL NOTES CONTINUED:

- 24. FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MUST NOT BE WASHED INTO THE DRAINAGE SYSTEM,
- 25. DUST CONTROL SHALL BE DONE BY WATERING AND AS OFTEN AS REQUIRED BY THE TOWN INSPECTOR.
- 26. SILT FENCE(S) AND/OR FIBER ROLL(S) SHALL BE INSTALLED PRIOR TO SEPTEMBER 15TH AND SHALL REMAIN IN PLACE UNTIL THE LANDSCAPING GROUND COVER IS INSTALLED. CONTRACTOR SHALL CONTINUOUSLY MONITOR THESE MEASURES, FOLLOWING AND DURING ALL RAIN EVENTS, TO PUBLIC OWNED FACILITIES.

EROSION CONTROL MEASURES:

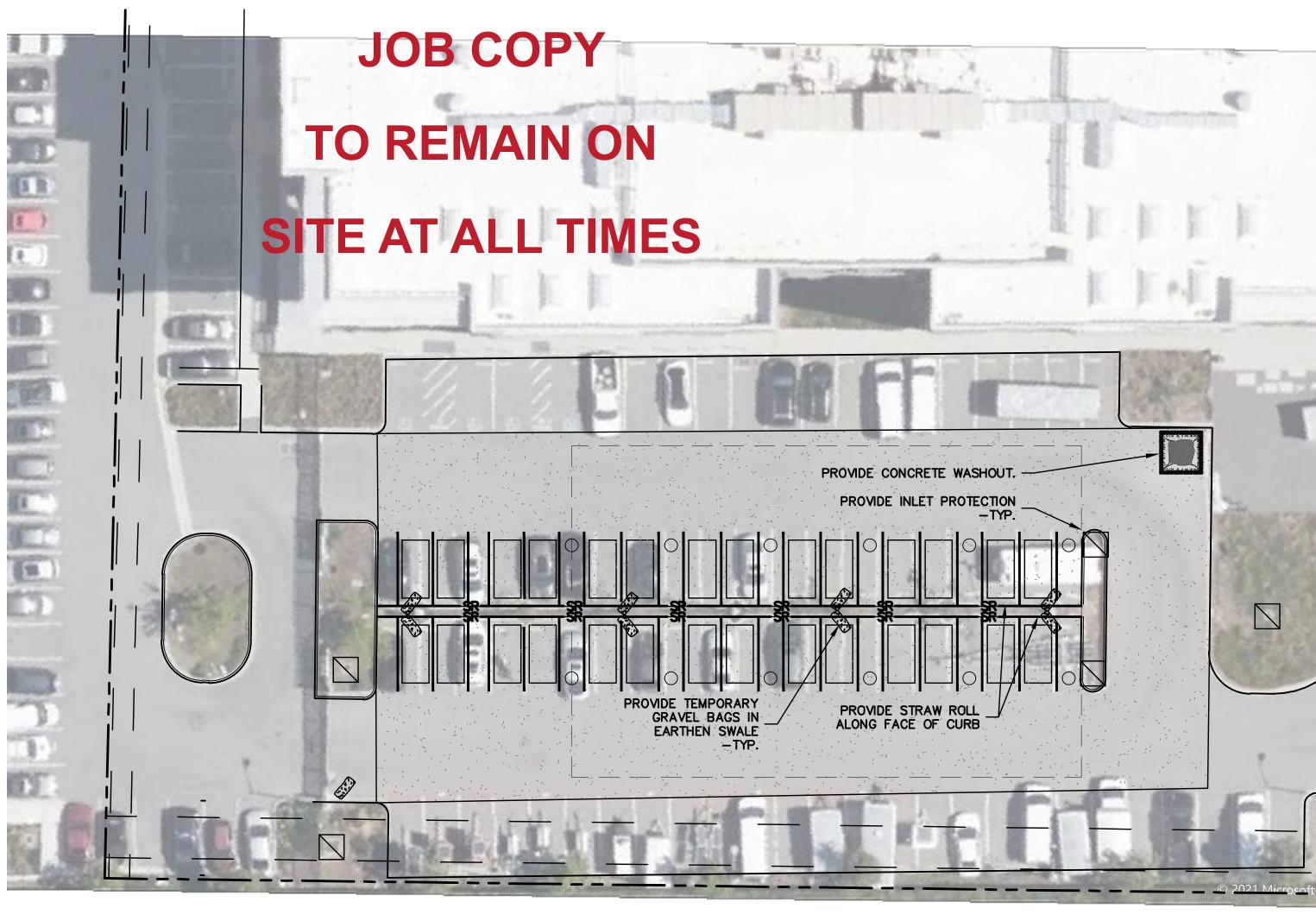
- 1. THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 15TH TO APRIL 15. EROSION CONTROL FACILITIES SHALL BE IN PLACE PRIOR TO OCTOBER 15TH OF ANY YEAR. GRADING OPERATIONS DURING THE RAINY SEASON WHICH LEAVE DENUDED SLOPES SHALL BE PROTECTED WITH EROSION CONTROL MEASURES IMMEDIATELY FOLLOWING GRADING ON THE SLOPES.
- 2. SITE CONDITIONS AT TIME OF PLACEMENT OF EROSION CONTROL MEASURES WILL VARY, APPROPRIATE ACTION INCLUDING TEMPORARY SWALES, INLETS, HYDROSEEDING. STRAW BALES, ROCK SACKS, ETC. SHALL BE TAKEN TO PREVENT EROSION AND SEDIMENTATION FROM LEAVING SITE. EROSION CONTROL MEASURES SHALL BE ADJUSTED AS THE CONDITIONS CHANGE AND THE NEED OF CONSTRUCTION SHIFT.
- 3. CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCES. CONTRACTOR SHALL MAINTAIN STABILIZED ENTRANCE AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. ANY MUD OR DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED DAILY AND AS REQUIRED BY THE GOVERNING AGENCY.
- ALL EXPOSED SLOPES THAT ARE NOT VEGETATED SHALL BE HYDROSEEDED. IF HYDROSEEDING IS NOT USED OR IS NOT EFFECTIVE BY OCTOBER 15. THEN OTHER IMMEDIATE METHODS SHALL BE IMPLEMENTED, SUCH AS EROSION CONTROL BLANKETS, OR A THREE-STEP APPLICATION OF 1) SEED, MULCH, FERTILIZER 2) BLOWN STRAW 3) TACKIFIER AND MULCH. HYDROSEEDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 20" EROSION CONTROL AND HIGHWAY PLANTING" OF THE STANDARD SPECIFICATION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, AS LAST REVISED. REFER TO THE EROSION CONTROL SECTION OF THE GRADING SPECIFICATIONS THAT ARE A PART OF THIS PLAN SET FOR FURTHER INFORMATION.
- 5. INLET PROTECTION SHALL BE INSTALLED AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT. MINIMUM INLET PROTECTION SHALL CONSIST OF A ROCK SACKS OR AS SHOWN ON THIS PLAN
- 6. THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN IN THE FIELD. A REPRESENTATIVE OF LEA & BRAZE ENGINEERING SHALL PERFORM A FIELD REVIEW AND MAKE RECOMMENDATIONS AS NEEDED. CONTRACTOR IS RESPONSIBLE TO NOTIFY LEA & BRAZE ENGINEERING AND THE GOVERNING AGENCY OF ANY CHANGES.
- 7. THE EROSION CONTROL MEASURES SHALL CONFORM TO THE LOCAL JURISDICTION'S STANDARDS AND THE APPROVAL OF THE LOCAL JURISDICTION'S ENGINEERING DEPARTMENT.
- 8. STRAW ROLLS SHALL BE PLACED AT THE TOE OF SLOPES AND ALONG THE DOWN SLOPE PERIMETER OF THE PROJECT. THEY SHALL BE PLACED AT 25 FOOT INTERVALS ON GRADED SLOPES. PLACEMENT SHALL RUN WITH THE CONTOURS AND ROLLS SHALL BE TIGHTLY END BUTTED. CONTRACTOR SHALL REFER TO MANUFACTURES SPECIFICATIONS FOR PLACEMENT AND INSTALLATION INSTRUCTIONS.

REFERENCES:

- 1. CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL
- 2. CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION

PERIODIC MAINTENANCE:

- 1. MAINTENANCE IS TO BE PERFORMED AS FOLLOWS:
- A. DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION SHALL BE REPAIRED AT THE END OF EACH WORKING DAY.
- B. SWALES SHALL BE INSPECTED PERIODICALLY AND MAINTAINED AS
- C. SEDIMENT TRAPS, BERMS, AND SWALES ARE TO BE INSPECTED AFTER EACH STORM AND REPAIRS MADE AS NEEDED.
- D. SEDIMENT SHALL BE REMOVED AND SEDIMENT TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF 1' FOOT.
- E. SEDIMENT REMOVED FROM TRAP SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- F. RILLS AND GULLIES MUST BE REPAIRED.
- 2. GRAVEL BAG INLET PROTECTION SHALL BE CLEANED OUT WHENEVER SEDIMENT DEPTH IS ONE HALF THE HEIGHT OF ONE GRAVEL BAG.
- 3. STRAW ROLLS SHALL BE PERIODICALLY CHECKED TO ASSURE PROPER FUNCTION AND CLEANED OUT WHENEVER THE SEDIMENT DEPTH REACHED HALF THE HEIGHT OF THE ROLL.
- 4. SILT FENCE SHALL BE PERIODICALLY CHECKED TO ASSURE PROPER FUNCTION AND CLEANED OUT WHENEVER THE SEDIMENT DEPTH REACHES ONE FOOT IN HEIGHT.
- 5. CONSTRUCTION ENTRANCE SHALL BE REGRAVELED AS NECESSARY FOLLOWING SILT/SOIL BUILDUP.
- 6. ANY OTHER EROSION CONTROL MEASURES SHOULD BE CHECKED AT REGULAR INTERVALS TO ASSURE PROPER FUNCTION



EROSION CONTROL LEGEND

GRAVEL BAG



INLET PROTECTION

STRAW ROLL

SILT FENCE



CONCRETE WASHOUT

SEAL ALL OTHER INLETS NOT INTENDED TO ACCEPT STORM WATER AND DIRECT FLOWS TEMPORARILY TO FUNCTIONAL SEDIMENTATION BASIN INLETS. -TYP

1730 S. AMPHLETT BLVD, SUITE 225 SAN MATEO, CALIFORNIA 94402 www.bartosarchitecture.com









San Mateo County Sheriff's Office 400 County Center Redwood City, CA

Maple Street Correctional Facility 1300 Maple St Redwood City, CA 94063

Solar Shade Structure

4/14/2021

Issued For Permit \Plan Check Resubmittal 11/11/2021

RECEIVED Jun 21 2023

San Mateo County **Building Inspection**

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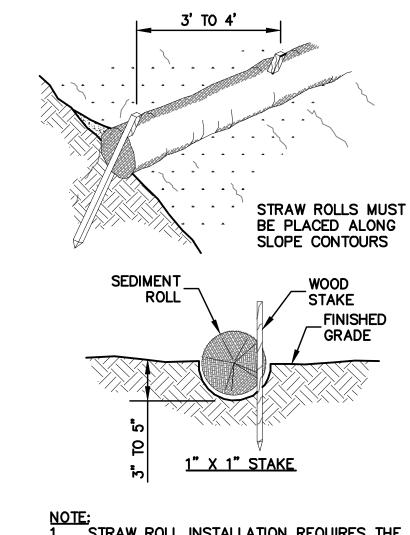
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Erosion Control

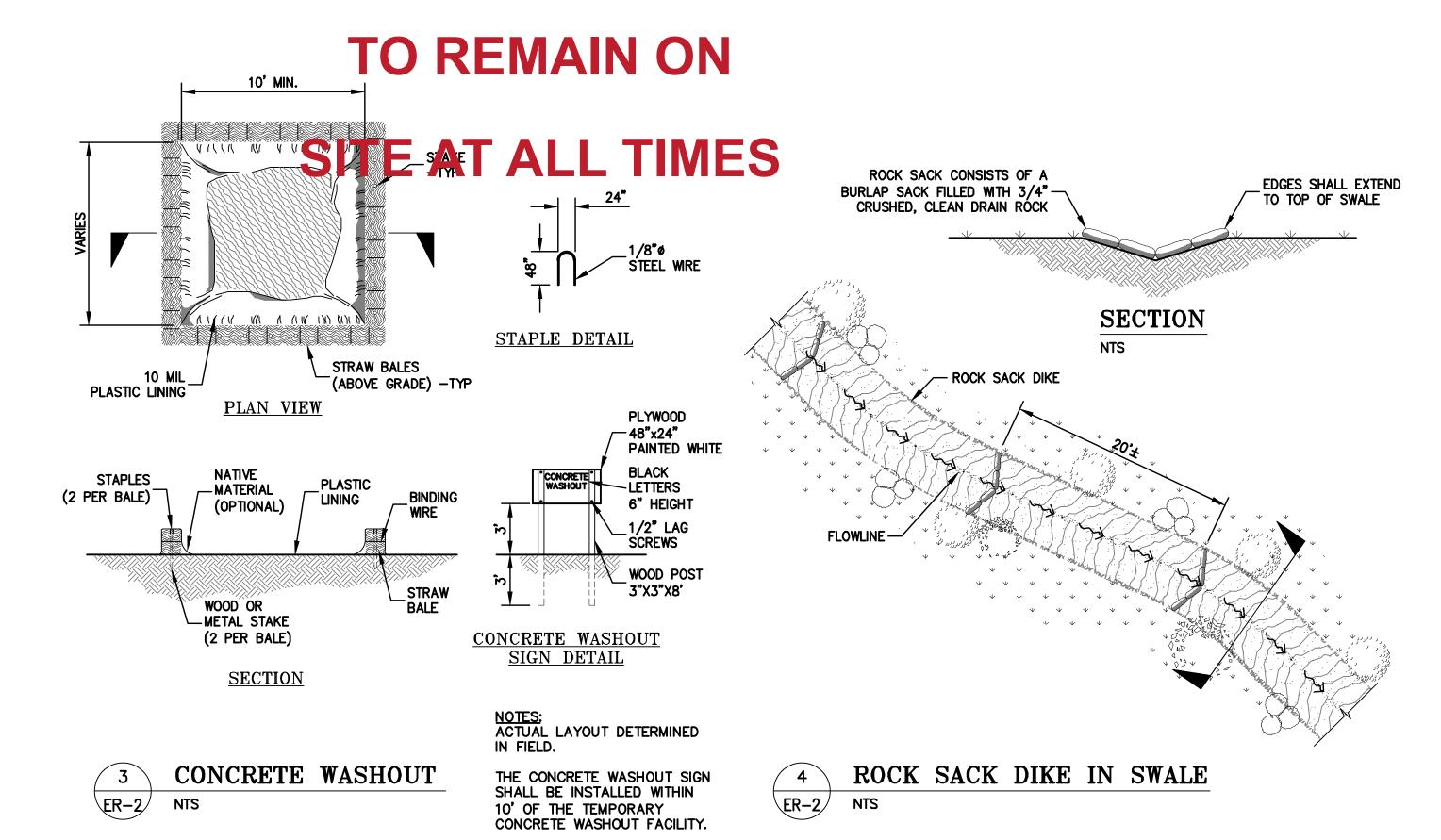
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NOTE:

1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" TO 5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

2. CONTRACTOR IS RESPONSIBLE FOR REGULAR MAINTENANCE AND INSPECTION. THE SILT SHALL BE CLEANED OUT WHEN IT REACHES HALF THE HEIGHT OF THE ROLL.



BARTOS
ARCHITECTURE

1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
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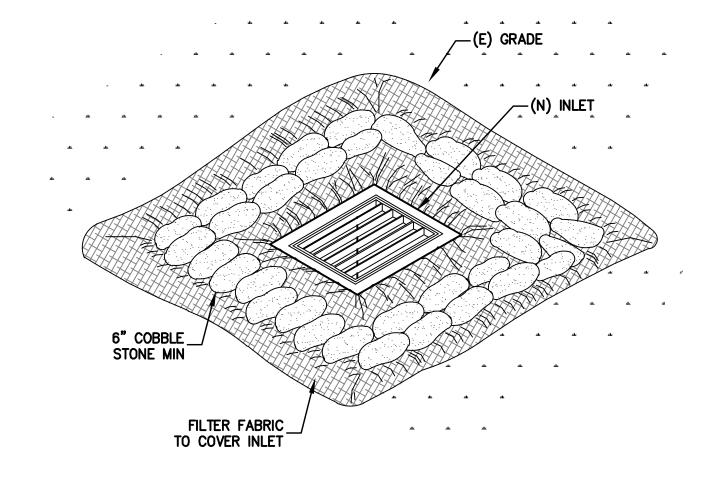
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Erosion Control Details

ER-2





2 STRAW ROLLS
ER-2 NTS

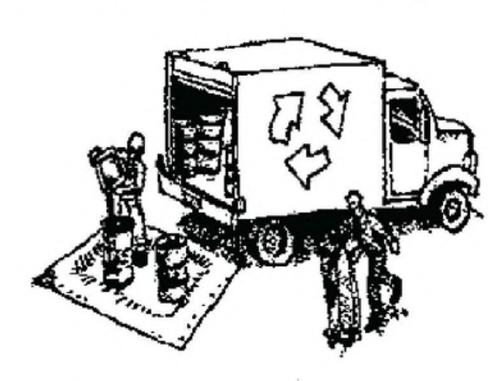


Construction Best Management Practices (BMPs)

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all sear tong. ALL TIMES

Clean Water. Healthy Community.

Materials & Waste Management



Non-Hazardous Materials

- ☐ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
- ☐ Use (but don't overuse) reclaimed water for dust control.

Hazardous Materials

- ☐ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- ☐ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- ☐ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- ☐ Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- ☐ Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- ☐ Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- ☐ Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- ☐ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

Construction Entrances and Perimeter

- ☐ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- ☐ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

Equipment Management & **Spill Control**



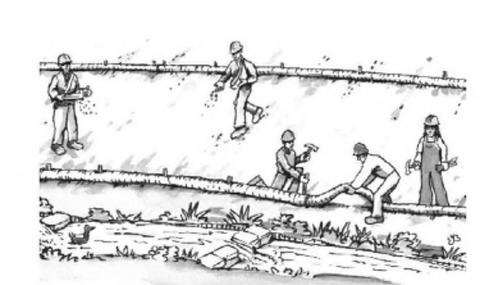
Maintenance and Parking

- Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- ☐ Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- ☐ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- ☐ If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- ☐ Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment.

Spill Prevention and Control

- ☐ Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- ☐ Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- Clean up spills or leaks immediately and dispose of cleanup materials properly.
- Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- ☐ Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- ☐ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

Earthmoving



- ☐ Schedule grading and excavation work during dry weather.
- ☐ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- ☐ Remove existing vegetation only when absolutely necessary, and seed or plant vegetation for crosion control on slopes or where construction is not immediately planned.
- ☐ Prevent sediment from migrating offsite and protect storm drain inlets, gutters, ditches, and drainage courses by installing and maintaining appropriate BMPs, such as fiber rolls, silt fences, sediment basins, gravel bags, berms, etc.
- ☐ Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

Contaminated Soils

- ☐ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
- Unusual soil conditions, discoloration. or odor.
- Abandoned underground tanks.
- Abandoned wells
- Buried barrels, debris, or trash.

Paving/Asphalt Work



- ☐ Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- ☐ Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry scal, fog scal, etc.
- ☐ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.
- ☐ Do not use water to wash down fresh asphalt concrete pavement

Sawcutting & Asphalt/Concrete Removal

- ☐ Protect nearby storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- ☐ Shovel, abosorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ☐ If sawcut slurry enters a catch basin, clean it up immediately.

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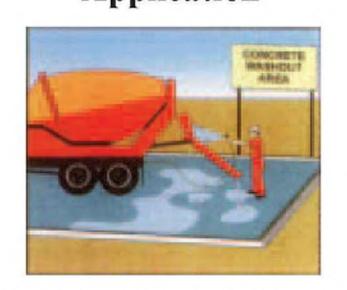
SITE AT ALL TIMES

REVIEWED FOR CODE COMPLIANCE his review does not authorize violation of State or County building laws.

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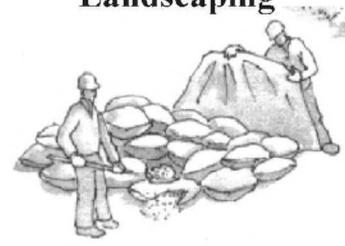
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Concrete, Grout & Mortar Application



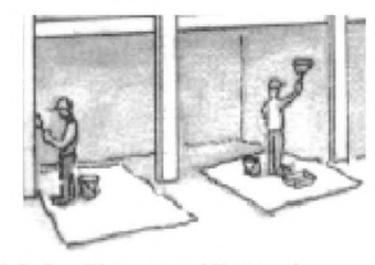
- ☐ Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind.
- ☐ Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and in a manner that will prevent leaching into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage.
- ☐ When washing exposed aggregate, prevent washwater from entering storm drains. Block any inlets and vacuum gutters, hose washwater onto dirt areas, or drain onto a bermed surface to be pumped and disposed of properly.

Landscaping



- ☐ Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round.
- ☐ Stack bagged material on pallets and under cover.
- ☐ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

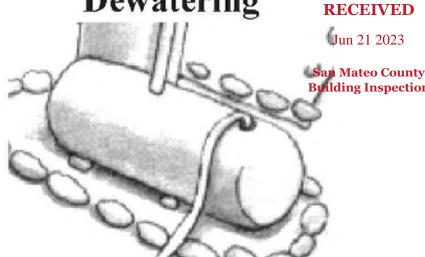
Painting & Paint Removal



Painting Cleanup and Removal

- ☐ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
- ☐ For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain.
- ☐ For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
- ☐ Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- ☐ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a statecertified contractor.

Dewatering



- ☐ Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. When possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call your local wastewater treatment plant.
- ☐ Divert run-on water from offsite away from all disturbed areas.
- ☐ When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ☐ In areas of known or suspected contamination, call your local agency to determine whether the ground water must be tested. Pumped groundwater may need to be collected and hauled off-site for treatment and proper disposal.

Storm drain polluters may be liable for fines of up to \$10,000 per day!

GENERAL:

- PERFORM THE WORK IN THE ORDER INDICATED ON THE DRAWINGS WHERE WORK REQUIRES SEQUENTIAL OPERATIONS.
- WHEN REQUESTING SUBSTITUTIONS FOR PRODUCTS, PROCEDURES, METHODS OR MATERIALS SPECIFIED FOR THE PROJECT, SUBMIT ENGINEERING DATA ESTABLISHING EQUIVALENCE AND ICC OR IAPMO EVALUATION REPORT NUMBER, IF APPLICABLE, FOR REVIEW BY THE ENGINEER AND APPROVAL BY AHJ PRIOR TO INCORPORATING INTO THE WORK.
- WHERE REFERENCED INDUSTRY STANDARDS ARE LISTED. USE THE LATEST CBC ACCEPTED AND APPROVED EDITION,
- THESE DRAWINGS HAVE BEEN CREATED BASED ON THE FOLLOWING DESIGN CRITERIA:

DESIGN CRITERIA				
GENERAL				
CODE		2019 CALIFORNIA BUILDIN	G CODE [CBC]	
JURISDICTION		COUNTY OF SAN MATEO		
RISK CATEGORY		II		
LOWEST ANTICIPATED SERVICE	E TEMPERATURE	ŊA		
LOCATION OF BASE OF STR	UCTURE			
LIVE LOAD		EARTHQUAKE LOAD		
ROOF	12 PSF	IMPORTANCE FACTOR	1.0	
		DESIGN CATEGORY	D	
		Ss	1.63	
		S1	.660	
WIND LOAD		SITE CLASS	D	
BASIC WIND SPEED, Vult	95 MPH	SDS	1.08	
BASIC WIND SPEED, Vosd	74 MPH	SD1	NULL	
EXPOSURE	D	R	1.25	
INTERNAL PRESSURE	0.00	DESIGN BASE SHEAR	70 KIPS/0.864W [LRF	
COMPONENTS/CLADDING	32.6 PSF	ρ		
SNOW LOAD		OVERSTRENGTH FACTOR	1.25	
Pf	NA	ANALYSIS PROCEDURE	LINEAR STATIC	
Се	NA	BASIC RESISTING SYSTEM	ORD. CANTILEVER COL	
IMPORTANCE FACTOR	NA	lp	1.0	
Ct	NA	SOG AS STRUCT, DIAPH,	NA	
LONGITUDE	-122.219	LATITUDE	37.493	

DELEGATED DESIGN ELEMENTS:

- DELEGATED DESIGN ELEMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATE WITH THE ARCHITECT FOR STRUCTURAL REVIEW OF THE FOLLOWING DELEGATED DESIGN ELEMENTS:
 - SOLAR PANEL MODULES ANCHORAGE DESIGN AND SECONDARY SUPPORTS NEEDED TO SPAN BETWEEN STRUCTURAL STEEL FRAMING SHOWN ON THESE DRAWINGS.
- DESIGN OF ALL DELEGATED DESIGN ELEMENTS SHALL BE PERFORMED BY A REGISTERED ENGINEER LICENSED TO PRACTICE IN THE STATE OF CALIFORNIA. AS REQUIRED BY JURISDICTION.
- DELEGATED DESIGN ELEMENTS SHALL FIRST BE SUBMITTED TO THE PROJECT ARCHITECT/STRUCTURAL ENGINEER FOR REVIEW AND COORDINATION: FOLLOWING THE COMPLETION OF PROJECT ARCHITECT/ENGINEER REVIEW AND COORDINATION, A SUBMITTAL TO THE BUILDING DEPARTMENT SHALL BE MADE (FOR REVIEW AND APPROVAL) WHEN REQUIRED BY THE BUILDING DEPARTMENT.

FOUNDATION:

- A. COMPLY WITH THE PROVISIONS OF CBC CHAPTER 18.
- WHERE PRACTICABLE, MAKE EXCAVATIONS AS NEAR AS POSSIBLE TO THE NEAT LINES REQUIRED BY THE SIZE AND SHAPE OF THE STRUCTURE. EXCAVATE NO MATERIAL UNNECESSARILY.
- WHERE EXCAVATIONS CANNOT BE MAINTAINED FOR A NEAT POUR, FORM THE SIDES. WHEN POURING FOOTINGS NEAT, ADD ONE INCH EACH SIDE OF FOOTINGS TO THE SIZES SHOWN ON THE DRAWINGS.
- ELEVATIONS OF BOTTOMS OF FOOTINGS HAVE BEEN ESTABLISHED TO REACH COMPETENT NATURAL SOILS OR ENGINEERED FILL AS DETERMINED FROM SUPPLEMENTAL GEOTECHNICAL REPORT "MAPLE STREET CORRECTIONAL FACILITY-SOLAR POWER GENERATION" (PROJECT NO. 09515.000.003) PREPARED BY ENGEO DATED MARCH 16, 2021. THIS MATERIAL IS CÁPABLE OF SUPPORTING ALLOWABLE LOADS AS INDICATED

[SPREAD FOOTINGS] DEAD LOAD + LIVE LOAD 1,000 PSF TOTAL LOAD INCL. SEISMIC 1.333 PSF PASSIVE PRESSURE 300 PCF 0.25[.125 WHEN COMBINE w/PASSIVE] SLIDING FRICTION

[DRILLED PIERS] SKIN FRICTION 500 PSF 300 PCF PASSIVE RESISTANCE INCREASE WHEN CONSIDERING SEISMIC/WIND

- AS EXCAVATION PROGRESSES, CONDITIONS MAY DEVELOP REQUIRING CHANGES IN ELEVATIONS OF FOOTINGS SHOWN ON THE DRAWINGS. MAKE SUCH CHANGES ONLY AS DIRECTED BY THE ENGINEER.
- CLEAN EXCAVATIONS JUST PRIOR TO PLACING CONCRETE.
- PLACE BACKFILL AS DIRECTED IN THE GEOTECHNICAL REPORT. OPEN GRADED GRAVEL OR ROCK MATERIAL SHALL NOT BE USED AS BACK FILL UNLESS APPROVED BY MOORE TWINING ASSOCIATES. WHERE BACKFILL IS TO BE PLACED AGAINST WALLS BEFORE THEY HAVE ATTAINED THEIR DESIGN STRENGTH, SHORE THE WALLS TO SUPPORT THE SOIL LOADING. THE SHORING IS TO REMAIN IN PLACE UNTIL THE WALL HAS ATTAINED ITS DESIGN STRENGTH AND/OR OTHER CONSTRUCTION INTENDED TO BRACE THE WALLS IS INSTALLED AND ADEQUATELY STRONG TO SUPPORT THE SOIL LOADING.
- ENGINEERED FILL SHOULD BE PLACED IN LOOSE LIFTS NO GREATER THAN 8 INCHES, MOSITURE-CONDITION OR AIR DRIED TO BETWEEN OPTIMUM AND 3 PERCENT ABOVE OPTIMUM MOSITURE CONTENT. FILL SHALL BE COMPACTED TO 92% PERCENT COMPACTION IN CONFORMANCE WITH ASTM D1557 WITH THE EXCEPTION OF THE FINAL 12 INCHES BELOW STRUCTURAL ELEMENTS WHICH SHOULD BE 95%. ADDITIONAL LIFTS SHALL NOT BE PLACED IF THE PREVIOUS LIFT DID NOT MEET THE REQUIRED PERCENT COMPACTION OR IF SOIL CONDITIONS ARE NOT STABLE. ALL ENGINEERED FILL, INCLUDING RE-USE OF EXISTING SOILS, SHALL BE REVIEWED AND APPROVED BY GEOTECHNICAL ENGINEER OF RECORD PRIOR TO PROCEEDING WITH NEXT OPERATIONS.

STRUCTURAL STEEL:

- COMPLY WITH THE PROVISIONS OF CBC CHAPTER 22, AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND AISC "CODE OF STANDARD PRACTICE".
- MATERIALS:

WIDE FLANGE MEMBERS: ASTM A992 OTHER ROLLED SHAPES: ASTM A36

ASTM A36, UON. PLATES AND BARS: ASTM A53. TYPE S, GRADE B STRUCTURAL PIPE: HSS TUBING: ASTM A500, GRADE B

WELDING: AWS D1.1 **ELECTRODES:** E70XX OR AS DETERMINED BY WELDING PROCEDURES

HIGH STRENGTH BOLTS: ASTM F3125 GRADE A325X, UON. ASTM A307 ASTM A29 GRADES C1010 - C1020 **WELDED STUDS:** ASTM F1554 GRADE 55 OR ANCHOR RODS: AS NOTED ON THE DRAWINGS

THREADED RODS: ASTM A36

- USE ASTM A563 NUTS AND ASTM F436 WASHERS WHERE BOLTS AND RODS ARE SPECIFIED, UON. WASHERS FOR ANCHOR RODS SHALL BE ASTM F844.
- HOLES MAY BE 1/16" LARGER THAN BOLT DIAMETER EXCEPT HOLES TO FIT OVER ANCHOR BOLTS MAY BE 1/4" DIAMETER LARGER THAN BOLT DIAMETER.
- PAINT ONE SHOP COAT AND FIELD TOUCH UP WITH APPROVED PAINT: EXCLUDE AT HSB CONNECTION CONTACT SURFACES, WHERE FIREPROOFING IS TO BE INSTALLED AND AT LOCATIONS AND AREAS TO BE WELDED OR EMBEDDED IN CONCRETE.
- USE NON-SHRINK GROUT UNDER COLUMN BASES. GROUT TO COMPLY WITH CORPS OF ENGINEERS SPECIFICATION CRD-C621. FIVE STAR GROUT, MASTER BUILDERS, SIKA, OR EQUAL. MINIMUM COMPRESSIVE STRENGTH: F'c = 3,000 PSI AT 7 DAYS AND F'c = 7,000 PSI AT 28 DAYS.
- USE COMPLETE JOINT PENETRATION WELDED JOINTS AT ALL SPLICES NOT INDICATED ON THE DRAWINGS.
- SUBMIT QUALIFICATIONS AND CERTIFICATES FOR ALL WELDERS. SUBMIT WELDING PROCEDURES FOR APPROVAL BY THE ENGINEER. SUBMIT HEAT NUMBERS FOR ALL MEMBERS INCLUDED IN THE WORK.
- ALL WELDS SPECIFIED ON DRAWINGS ARE NOT CLASSIFIED AS FIELD OR SHOP APPLIED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF FIELD OR SHOP WELDING IS BEST SUITED FOR FABRICATION AND ERECTION OF SPECIFIC COMPONENTS.
- FILLET WELD SIZES SHOWN ON THE DRAWINGS ARE MINIMUM SIZES, INCREASE WELD SIZE AS NECESSARY TO MEET AWS MINIMUM SIZES DUE TO BASE MATERIAL THICKNESS.
- ALL GROOVE AND BUTT WELDS SHALL BE COMPLETE JOINT PENETRATION [CJP] TYPE, UON.
- WELDS DESIGNATED ON DRAWINGS AS PART OF THE SEISMIC FORCE RESISTING SYSTEM ["SFRS" IN WELD SYMBOL TAIL OR ELSEWHERE] SHALL HAVE THE FOLLOWING ADDITIONAL WELDING REQUIREMENTS:
- FILLER METAL WITH A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 0 °F.
- WELD DAMS ARE NOT ALLOWED.
- IF BACKING BARS ARE USED AT THE BOTTOM BEAM FLANGE, THE BACKING BAR SHALL BE REMOVED, THE REMOVAL AREA GROUND SOUND, AND THE AREA MAGNETIC PARTICLE TESTED FOR DEFECTS. A 1/4" REINFORCING FILLET WELD SHALL BE PLACED IN THIS
- AT COMPLETE JOINT PENETRATION WELDS, WELDS SHALL BE STARTED AND ENDED WITH A MINIMUM LENGTH OF ONE INCH ON WELD TABS EXCEPT AT BEAM WEB ACCESS HOLES. WELD TABS SHALL BE REMOVED, THE AFFECTED AREA GROUND SMOOTH AND MAGNETIC PARTICLE TESTED FOR DEFECTS.
- BOLTED CONNECTIONS DESIGNATED ON DRAWINGS AS PART OF THE SEISMIC FORCE RESISTING SYSTEM ["SFRS"] SHALL BE PRETENSIONED AND HAVE SURFACES MEETING CLASS A FAYING SURFACES AS DEFINED IN "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS.
- ROLLED SHAPES WITH FLANGES 1-1/2" AND THICKER AND PLATES 2" AND THICKER THAT ARE DESIGNATED ON DRAWINGS AS PART OF THE SEISMIC LOAD RESISTING SYSTEM ["SFRS"] SHALL HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 70 F.

DIMENSIONS AND DATUM:

- DIMENSIONS ARE GIVEN TO CENTERLINE OF COLUMNS AND BEAMS OR FACE OF WALLS AND ROUGH CONCRETE SURFACES, UON.
- ELEVATIONS ARE GIVEN WITH REFERENCE TO EXISTING FINISHED GROUND FLOOR ELEVATION: EL. = 0'-0", UON. [DATUM EL.

CONCRETE

COMPLY WITH THE PROVISIONS OF CBC CHAPTER 19 AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY".

MATERIALS:

w/c RATIO:

ASTM C150, TYPE II AGGREGATE: ASTM C33, NORMAL WEIGHT CONCRETE F'c = 5,000 PSI FOR ALL CONCRETE CONCRETE: SLUMP: 41" MAX SHRINKAGE: LESS THAN 0.05%

0.35

- FLY ASH MEETING ASTM C618 CLASS F OR N MAY BE USED AS A PARTIAL REPLACEMENT FOR CEMENT. FLY ASH SHALL NOT EXCEED 25% [MEASURED BY WEIGHT] OF THE TOTAL CEMENTITIOUS CONTENT GROUND-GRANULATED BLAST-FURNACE SLAG MEETING ASTM C989 MAY BE USED AS A PARTIAL REPLACEMENT FOR CEMENT. SLAG SHALL NOT EXCEED 50% [MEASURED BY WEIGHT] OF THE TOTAL CEMENTITIOUS CONTENT. TOTAL FLY ASH AND SLAG SHALL NOT EXCEED 50% [MEASURED BY WEIGHT] OF THE TOTAL CEMENTIOUS CONTENT. COMPLY WITH CBC SECTION 1903.6, ACI SECTION 26.4.2.2(b) & TABLE 26.4.2.2.
- SUBMIT FOR REVIEW BY THE ENGINEER THE PROPOSED MIX DESIGNS, IN CONFORMANCE WITH ACI SECTION 26.4.2-26.4.4, REVIEWED AND APPROVED BY AN INDEPENDENT TESTING LABORATORY, CONCRETE MIX DESIGNS FOR EACH TYPE AND STRENGTH OF CONCRETE, INCLUDING SHRINKAGE HISTORY, UON, MIX DESIGN SHALL COMPLY WITH ACI 318
- SECTION 26.4.3 PROPORTIONING OF CONCRETE MIXTURES. USE NO ADDITIVES OR ADMIXTURES UNLESS APPROVED BY THE ENGINEER AND AHJ.
- REINFORCE ALL CONCRETE UNLESS SPECIFICALLY MARKED "NOT REINFORCED" WHERE REINFORCEMENT IS NOT OTHERWISE INDICATED ON THE DRAWINGS. REINFORCE WALLS WITH THE FOLLOWING MINIMUM REQUIREMENTS:

REINFORCING EACH WAY WALL THICKNESS LESS THAN 8" #4 @ 12", CENTERED 8" TO LESS THAN 10" #4 @ 9", CENTERED #4 @ 12", EACH FACE 10" TO LESS THAN 16" MORE THAN 16" #5 @ 12", EACH FACE

- COORDINATE WITH THE TESTING AGENCY DESIGNATED BY THE OWNER'S REPRESENTATIVE FOR STRENGTH AND SLUMP TESTING AS SCHEDULED IN SPECIAL INSPECTION AND TESTING SCHEDULE. COST OF TESTING AS SCHEDULED WILL BE PAID BY THE OWNER. COST OF TESTING. REMOVAL AND REPAIR OF NONCONFORMING CONCRETE TO BE PAID BY THE CONTRACTOR.
- COORDINATE WITH THE INSPECTION AGENCY DESIGNATED BY THE OWNER'S REPRESENTATIVE FOR INSPECTION OF REINFORCEMENT PLACEMENT AND PLACING OF CONCRETE AS SCHEDULED IN SPECIAL INSPECTION AND TESTING SCHEDULE.
- NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 48 HOURS IN ADVANCE OF CONCRETE PLACEMENT.
- DESIGN FORMWORK IN ACCORDANCE WITH ACI 318 SECTION 26.11 AND ACI 347 "GUIDE TO FORMWORK FOR CONCRETE". USE BOND BREAKER OR FORM RELEASE AGENT FOR EASE OF REMOVAL FROM THE PLACED CONCRETE.
- CHAMFER ALL CORNERS TO PREVENT DAMAGE.
- USE VIBRATORS TO CONSOLIDATE CONCRETE. DO NOT USE VIBRATORS TO MOVE CONCRETE. DO NOT VIBRATE FORMS OR USE FORM VIBRATORS.
- FINISH FLATWORK TO STEEL TROWEL FINISH UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR INSTRUCTED BY THE OWNER'S REPRESENTATIVE. ELEVATION OF FINISHED SLABS MAY VARY NO MORE THAN 1/8" IN 10'.
- REMOVE FINS AND FILL VOIDS WITH APPROVED PATCHING MIX ON WALLS AND COLUMNS AND EXPOSED SURFACES.
- THOROUGHLY SANDBLAST WITH COARSE SILICA SAND ALL CONSTRUCTION JOINTS TO CLEAN AND ROUGHEN THE ENTIRE JOINT, EXPOSING CLEAN COARSE AGGREGATE SOLIDLY EMBEDDED IN MORTAR MATRIX AND PAINT WITH A BONDING AGENT PRIOR TO PLACING NEW CONCRETE. COMPLY WITH THE PROVISIONS OF ACI 318, SECTIONS 26.5.6, 18.10.9 AND TABLE 22.9.4.2 CONDITION (b).
- REPAIR STRUCTURAL AND FINISH DEFECTS AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

DRILLED PIERS:

- COMPLY WITH THE PROVISIONS OF CBC CHAPTER 18 AND ACI 336.1 "SPECIFICATION FOR THE CONSTRUCTION OF DRILLED PIERS".
- SEE GEOTECHNICAL REPORT FOR SOILS INFORMATION, DRILLING METHODS AND CONDITIONS, CASING REQUIREMENTS, BEARING STRATUM AND MINIMUM DEPTHS.
- USE CATEGORY B TOLERANCES FOR OUT-OF PLUMB. MAINTAIN PLAN LOCATIONS AND TOP OF PIER ELEVATIONS WITHIN 3" OF THOSE ON THE DRAWINGS.
- REINFORCE AS SHOWN ON THE DRAWINGS. PLACE REINFORCEMENT CENTERED IN HOLE. USE DEVICES TO PREVENT DISPLACEMENT BY OPERATIONS BEFORE AND DURING CONCRETE PLACEMENT.
- PROVIDE REINFORCEMENT IN THE LONGEST LENGTH CONSISTENT WITH THE REQUIREMENTS OF THE WORK.
- PUMP CONCRETE OR USE PLACING DEVICES TO PREVENT FREE FALL GREATER THAN 6 FEET AND SEGREGATION OF AGGREGATE. HOLES CONTAINING MORE THAN TWO INCHES OF STANDING WATER SHALL BE PUMPED DRY PRIOR TO PLACING CONCRETE.

STEEL REINFORCEMENT

- COMPLY WITH THE PROVISIONS OF CBC CHAPTER 21 AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY".
- MATERIALS:

ASTM A615, GRADE 60, UON, EXCEPT STIRRUPS AND TIES #3 AND SMALLER MAY BE GRADE 40 WELDED BARS: ASTM A706 ASTM A185

PLACE REINFORCEMENT CONTINUOUS WITH SPLICES STAGGERED. UNLESS OTHERWISE DETAILED, LAP BARS AS FOLLOWS:

CONCRETE: ACI 318, CHAPTER 25

IN LIEU OF LAP SPLICE, SPLICING DEVICES CAPABLE OF DEVELOPING 125% OF THE YIELD CAPACITY OF THE BARS IN TENSION AND COMPRESSION CAN BE USED. SUBMIT SUBSTANTIATING DATA FOR REVIEW BY THE ENGINEER AND AHJ.

- HOLD REINFORCEMENT IN ITS TRUE POSITION WITH DEVICES SUFFICIENTLY NUMEROUS TO PREVENT DISPLACEMENT BY OPERATIONS BEFORE AND DURING CONCRETE PLACEMENT.
- USE CBC STANDARD HOOKS, BENDS AND CLEARANCES BETWEEN BARS, UNLESS OTHERWISE DETAILED.

MINIMUM CONCRETE COVER AROUND REINFORCEMENT:

CONCRETE PLACED AGAINST EARTH .. FORMED, EXPOSED TO WEATHER OR EARTH.. BEAMS, COLUMNS-PRIMARY REINF., TIES, STIRRUPS OR SPIRALS.......1-1/2" WALLS, INTERIOR SUSPENDED SLABS AND JOISTS..

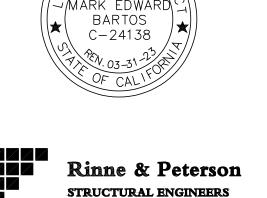
- SUBMIT HEAT NUMBERS FOR ALL REINFORCEMENT INCLUDED IN THE WORK.
- WHERE WELDING OF REINFORCEMENT IS DETAILED ON THE DRAWINGS. SUBMIT QUALIFICATIONS AND CERTIFICATES FOR ALL WELDERS. SUBMIT WELDING PROCEDURES FOR APPROVAL BY THE ENGINEER AND AHJ.
- FIELD BENDING OF REINFORCEMENT IS NOT PERMITTED WITHOUT PRIOR APPROVAL FROM ENGINEER.

CONCRETE ANCHORING

- COMPLY WITH THE PROVISIONS OF CBC SECTION 1910.5.
- SUBMIT MANUFACTURER'S DATA, INCLUDING ICC ACCEPTANCE REPORTS, TO THE ENGINEER FOR APPROVAL.
- INSTALL ALL FASTENERS PER THE MANUFACTURER'S RECOMMENDATIONS OR CBC REQUIREMENTS FOR PENETRATION, EMBEDMENT, SPACING, EDGE DISTANCE AND END DISTANCE, UON, ON THE DRAWINGS.
- EXPANSION ANCHOR DESIGNATIONS SHOWN ON THE DRAWINGS REFER TO HILTI KWIK BOLT TZ [ICC ESR-1917] OR SIMPSON STRONG-BOLT 2 ANCHORS [ICC ESR-3037], UON. USE STAINLESS STEEL MODELS AT EXTERIOR, CORROSIVE, AND NON-DRY INTERIOR ENVIRONMENTS. TIGHTEN NUTS OR BOLTS TO THE MANUFACTURER'S RECOMMENDED TORQUE.
- SELF-DRILLING TAPPING SCREWS DESIGNATIONS SHOWN ON THE DRAWINGS REFER TO ITW BUILDEX TEKS PRODUCTS [ICC ESR-1976], UON. USE THE SIZE INDICATED ON THE DRAWINGS AND THE TYPE APPROPRIATE TO THE MATERIALS BEING FASTENED AND THE STRUCTURAL COMPONENT BEING ATTACHED TO.
- ADHESIVE ANCHORS SHOWN ON THE DRAWINGS REFER TO HIT-HY-200 ADHESIVE BY HILTI, INC. [ICC ESR-3187], OR PURE 110+ BY POWERS FASTENERS [ICC ESR-3298], UON. INSTALL ANCHORS AFTER CONCRETE HAS AGED A MINIMUM OF 21 DAYS. EMBEDMENT AS NOTED ON THE DRAWINGS. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS SUPPORTING SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED THROUGH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.
- FILL ABANDONED HOLES IN CONCRETE AND MASONRY WITH NON-SHRINK
- PRIOR TO DRILLING IN EXISTING CONCRETE MEMBERS, EXISTING REINFORCING LOCATIONS SHALL BE MAPPED. NOTIFY ENGINEER IF INTERFERENCE BETWEEN EXISTING REINFORCING AND DRILLED HOLES OCCUR. DO NOT CUT OR DAMAGE EXISTING REINFORCING BARS, UON.

1730 S. AMPHLETT BLVD, SUITE 225 SAN MATEO, CALIFORNIA 94402 www.bartosarchitecture.com





STRUCTURAL ENGINEERS 1121 San Antonio Road, Suite C20 Palo Alto, CA 94303 PRUI 650 428-2860 FAX 650 428-2864

San Mateo County Sheriff's Office 400 County Center Redwood City, CA

Maple Street Correctional Facility 1300 Maple St Redwood City, CA 94063

Solar Structure

REVISION Issued For Permit 4/14/2021 Plan Check Resubmittal 11/11/2021

1/17/2022

✓₂ Geotech Approval

RECEIVED

San Mateo County Building Inspection

Jun 21 2023

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TO REMAIN ON

SITE AT ALL TIMES

REVIEWED FOR CODE COMPLIANCE This review does not authorize violation of State or County building laws.

Jun 21 2023

SAN MATEO CO. BLDG. INSP. DIV.

General Notes

DRAWING INDEX

SO.1 GENERAL NOTES

SO.2 GENERAL NOTES

S2.1 SOLAR STRUCTURE FRAMING PLAN AND ELEVATION

S3.1 FRAME ELEVATIONS

S5.1 DETAILS

QUALITY ASSURANCE PLAN

- QUALITY ASSURANCE PLAN SHALL CONFORM TO CHAPTER 17A OF THE 2019 CALIFORNIA BUILDING CODE.
- THE INTENT OF THE QUALITY ASSURANCE PLAN IS TO IDENTIFY COMPONENTS OF WORK THAT ARE SUBJECT TO QUALITY ASSURANCE PROCEDURES AND IDENTIFY SPECIAL INSPECTION, TESTING AND OBSERVATION REQUIREMENTS TO CONFIRM CONSTRUCTION QUALITY.
- PRIOR TO COMMENCEMENT OF WORK, GENERAL CONTRACTOR SHALL PARTICIPATE IN PRE-CONSTRUCION MEETING WITH OWNER, ARCHITECT, AND STRUCTURAL ENGINEER.
- DURING THE COURSE OF CONSTRUCTION, FIELD CONDITIONS MAY ARISE REQUIRING MODIFICATIONS TO THE PROJECT DRAWINGS. CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER AS SOON AS POSSIBLE OF SPECIFIC CONDITION, ARRANGE ACCESS IN THE FIELD, AND WILL NOT PROCEED WITH WORK UNTIL AS DIRECTED BY THE STRUCTURAL ENGINEER.

STRUCTURAL OBSERVATIONS:

- CONTRACTOR SHALL COORDINATE WITH RINNE & PETERSON SCHEDULING OF AND ACCESS FOR JOBSITE OBSERVATIONS OVER THE COURSE OF CONSTRUCTION IN CONFORMANCE WITH CBC SECTION 1704.
- ANY DEFICIENCIES FOUND DURING THE OBSERVATION PROCESS WILL BE NOTED ALONG WITH PROPOSED CORRECTIVE MEASURES IN WRITTEN FORMAT AND FORWARDED TO THE OWNER'S REPRESENTATIVE, ARCHITECT, AND GENERAL CONTRACTOR.
- UPON COMPLETION OF THE WORK, A WRITTEN STATEMENT PREPARED BY RINNE & PETERSON ATTESTING THAT SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY OUTSTANDING DEFICIENCIES WILL BE PROVIDED.
- STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY CBC CHAPTER 1, DIVISION II, SECTION 110 AND 1704A.

SPECIAL INSPECTION & TESTING:

COORDINATE WITH THE INDEPENDENT INSPECTION AGENCY DESIGNATED BY THE ARCHITECT TO PERFORM THE FOLLOWING INSPECTIONS DENOTED WITH 'X':

	SPECIAL INSPECTION & TESTING SCHEDULE				
	ITEM	REFERENCE STANDARD [CBC UON]	REMARKS		
Р	OST INSTALLED ANCHORS	-			
X	MECHANICAL ANCHORS	TABLE 1705A.3 APPLICABLE ICC/IAPMO REPORT	WHERE NOTED ON DRAWINGS		
×	ADHESIVE AND EPOXY ANCHORS	1910A.5, TABLE 1705A.3 APPLICABLE ICC/IAPMO REPORT, ACI 318: 17.8.2.2, 26.7.1(i)	WHERE NOTED ON DRAWINGS		
С	ONCRETE				
×	MIX DESIGNS	ACI 318: 26.4.2 - 26.4.4			
*	CAST SPECIMENS FOR STRENGTH, SLUMP, AIR CONTENT TESTS, & CONCRETE TEMPERATURE	ASTM C172, ASTM C31 & ACI 318: 26.5.1, 26.5.2, 26.12			
Х	CAST IN PLACE ANCHORS	ACI 318: 17.1, 17.8			
X	INSPECT CONCRETE PLACEMENT	1705A.3.5 & ACI 318: 26.5.2.1, 26.13, 26.13.3			
×	FORMWORK INSPECTION	TABLE 1705A.3 & ACI 318: 26.11.1.2(b), 26.13.3.3			
Х	CURING TEMPERATURE & TECHNIQUE INSPECTIONS	1705A.3 & ACI 318: 26.5.3-26.5.5, 26.13.3.3			
x	TENSILE & BEND TEST	1910A.2 & ACI 318: 26.6	ONE SET PER HEAT PER 10 TONS ONE SET EACH SIZE PER 2-1/2 TONS FOR UNIDENTIFIED REBAR		
X	INSPECTION OF REINFORCING STEEL AND PLACEMENT	TABLE 1705A.3 & ACI 318: 25.2, 25.3, 26.5.1-26.5.3			
	INSPECTION OF WELDING	1705A.3.1, TABLE 1705A.3, ITEM 2, AWS D1.4 & ACI 318: 26.6.4			
Х	BATCH PLANT INSPECTION	1705A.3.2 & 1705A.3.3			
Ρ	ER FOUNDATION				
x	DRILLING OPERATIONS & COMPLETE RECORD KEEPING OF EACH PIER				
×	VERIFY PLACEMENT LOCATIONS & PLUMBNESS, PIER DIAMETERS, BELL DIAMETERS, LENGTHS, EMBEDMENT INTO BEDROCK & ADEQUATE END BEARING STRATA CAPACITY				
Х	CONCRETE PIERS		INSPECTIONS PER SECTION 1705.3		
	MASONRY PIERS		INSPECTIONS PER SECTION 1705.4		
S	TRUCTURAL STEEL				
×	STRUCTURAL STEEL MATERIAL AND SUBMIT CERTIFIED MILL TEST REPORTS	1705A,2.1, 2202A, AISC 360: SECTION A3, ASTM A6 & ASTM A568			
×	WELD FILLER MATERIALS AND SUBMIT CERTIFICATE OF COMPLIANCE	AISC 360: SECTION A3.5 & N5.4 & AWS D1.1, D1.8			
X	GROOVE WELDS INSPECTION	1705A.2.5 & AWS D1.1, D1.8			
X	FILLET WELDS INSPECTION	1705A.2.5 & AWS D1.1, D1.8			
	WELDED JOINT NON-DESTRUCTIVE TESTING	AISC 360: SECTION N5 AISC 341: SECTION J6.2			
×	HIGH-STRENGTH BOLTS, NUTS, WASHERS & CERTIFICATE OF COMPLIANCE	ASTM SPECS. & AISC 360: SECTION A3.3			
x	HIGH-STRENGTH BOLTING INSPECTION	TABLE 1705A.2.1 & AISC 360: SECTION N5.6 & AISC 341: SECTION J7			
	STEEL FRAME JOINT DETAILS	TABLE 1705A.2.1 & AISC 360: SECTION N5.7			
	METAL DECK MATERIAL AND CERTIFIED TEST REPORT	APPLICABLE ASTM STANDARD			
	METAL DECK WELDING INSPECTION	1705A.2.5			
S	DILS				
×	VERIFY MATERIALS BELOW FOOTING & DEPTH EXCAVATIONS	1705A.6	PERFORMED BY GEOTECHNICAL ENG.		
×	CLASSIFICATION & TESTING OF FILL MATERIALS	1705A.6	PERFORMED BY GEOTECHNICAL ENG.		
x	VERIFY USE OF MATERIALS, DENSITIES & LIFT THICKNESSES DURING PLACEMENT & COMPACTION OF FILL	1705A.6	PERFORMED BY GEOTECHNICAL ENG.		
X	SITE PREPARATION & OBSERVE SUBGRADE	1705A.6	PERFORMED BY GEOTECHNICAL ENG.		

INSPECTION & TESTING PARAMETERS (CONTINUOUS, PERIODIC, SAMPLING FREQUENCY, ETC.) SHALL BE AS SPECIFIED IN ABOVE REFERENCED SECTIONS, UNLESS OTHERWISE NOTED. THE SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY MEETING THE REQUIREMENTS OF ASTM E329 (MATERIALS), ASTM D3740 (SOILS), ASTM C1093 (MASONRY), ASTM C1077 (CONCRETE), ASTM A880 (STEEL), AND ASTM E543 (NON DESTRUCTIVE). SPECIAL INSPECTORS SHALL BE CERTIFIED BY THE BUILDING OFFICIAL. WELDING INSPECTORS SHALL BE QUALIFIED PER SECTION 6.1.4.1.1 OF AWS D1.1.

- B. WHERE THE ABOVE LISTED INSPECTION AND TESTING ITEMS ARE IN CONFLICT WITH THE APPLICABLE BUILDING JURISDICTION SPECIAL INSPECTION AND TESTING FORM SPECIFIC TO THIS PROJECT, THE MORE STRINGENT APPLICATION SHALL APPLY.
- THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, NOTED IN THE INSPECTION REPORTS, AND IF NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL.
- THE SPECIAL INSPECTOR SHALL FURNISH A VERIFIED REPORT TO THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OF CONSTRUCTION OBSERVATION, THE STRUCTURAL ENGINEER AND THE ENFORCEMENT AGENCY, IN ACCORDANCE WITH TITLE 24. PART 1 AND CHAPTER 17A. THE VERIFIED REPORT SHALL LIST ALL INSPECTED MEMBERS OR TRUSSES AND SHALL INDICATE WHETHER OR NOT THE INSPECTED MEMBERS OR TRUSSES CONFORM WITH APPLICABLE STANDARDS AND THE APPROVED DRAWINGS AND SPECIFICATIONS. ANY NONCONFORMING ITEMS SHALL BE INDICATED ON THE VERIFIED REPORT.
- COORDINATE WITH THE INDEPENDENT INSPECTION AGENCY DESIGNATED BY THE ARCHITECT TO PERFORM THE INSPECTIONS LISTED IN STRUCTURAL TESTS AND INSPECTIONS FORM DSA-103 REPLICATED ABOVE.

POST-INSTALLED ANCHORS IN CONCRETE:

- COMPLY WITH THE PROVISIONS OF CBC SECTION 1910A.5.
- POST-INSTALLED ANCHORS SHALL BE PRODUCTS SPECIFIED UNDER SECTION CONCRETE & MASONRY ANCHORING ON THESE DRAWINGS.
- CARBON STEEL MECHANICAL ANCHORS IS LIMITED TO DRY, INTERIOR LOCATIONS, STAINLESS STEEL TYPE SHALL BE USED AT EXTERIOR. EXPOSED TO WEATHER, AND DAMP LOCATIONS AND WHERE SPECIFICALLY NOTED ON THESE DRAWINGS.
- ANCHOR SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN THE ICC/IAPMO RESEARCH COMMITTEE RECOMMENDATIONS FOR THE SPECIFIC ANCHOR.
- THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SUCH THAT INTERFERENCE OF REINFORCING STEEL WITH CONCRETE ANCHOR PLACEMENT DOES NOT OCCUR. IF REINFORCING STEEL IS ENCOUNTERED DURING DRILLING, ADJUST THE ANCHOR LOCATION IF POSSIBLE AND NOTIFY THE OWNER'S REPRESENTATIVE. ABANDONED HOLES SHALL BE FILLED WITH NON-SHRINK GROUT. ANCHORS SHALL BE SET WITHIN 3 INCHES OF THEIR SPECIFIED LOCATION, BUT AT LEAST 1 INCH FROM EDGE OF ANY ABANDONED HOLE. CARE SHALL BE TAKEN NOT TO BREAK OR DAMAGE REINFORCING STEEL DURING DRILLING, UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE.

TESTING SHALL BE IN THE PRESENCE OF THE OWNER'S PROJECT INSPECTOR OR TESTING LABORATORY AND THE TEST RESULTS SUBMITTED TO THE PROJECT ENGINEER. TEST REQUIREMENTS FOR EXPANSION ANCHORS USED IN METAL SUSPENSION SYSTEM FOR LAY IN PANEL CEILINGS SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. TEST VALUES LISTED ARE FOR A TORQUE WRENCH TEST.

TESTING PROCEDURE SHALL BE AS PERMITTED BY AN APPROVED TEST REPORT USING CRITERIA ADOPTED IN THE CBC. TORQUE CONTROLLED POST-INSTALLED ANCHORS SHALL BE TESTED USING TORQUE BASED ON VALUES LISTED BELOW FOR SPECIFIC ANCHORS USING CRITERIA ADOPTED IN THE CBC. ALL OTHER POST-INSTALLED ANCHORS SHALL BE TENSION

TORQUE BASED ANCHORS INSTALLED IN NORMAL WEIGHT CONCRETE, MINIMUM EMBEDMENT & TEST VALUES:

BOLT DIAMETER	MIN. HOLE DEPTH IN CONCRETE,	MIN. CONCRETE THICKNESS	TORQUE TEST		
(INCHES)	U.O.N. (INCHES)	(INCHES)	(FT-LBS)		
ністі кфік	BOLT TZ:				
3 8	2 5	4	25		
1/2	2 5	4	40		
2	4	6	40		
5	3 3	5	60		
8	43	6	80		
3 4	4 ¹ / ₂ 5 ³ / ₄	6	110		
4	5 <u>3</u>	8	110		
SIMPSON STRONG BOLT 2:					
3	2	3 <u>1</u>	30		
8	3	41/2	30		
1 2	3	41/2	60		
2	4 <mark>1</mark>	6	00		
5)00	3 5	5 <u>1</u>	90		
8	5 <u>₹</u>	7 <mark>7</mark>	30		
<u>3</u>	48	6 3	150		
4	6	8 <u>3</u>	150		

- ADHESIVE ANCHORS INSTALLED IN NORMAL WEIGHT CONCRETE SHALL BE EMBEDDED AND TENSION TESTED TO VALUES SPECIFIED ON THESE DRAWINGS. TESTING IS NOT REQUIRED WHERE NO VALUE IS SPECIFIED.
- ALL POST INSTALLED ANCHORS OF EACH SIZE SHALL BE TESTED. WHERE ANCHORS ARE USED FOR EQUIPMENT ANCHORAGE, 50% OF ALTERNATE BOLTS IN EACH GROUP SHALL BE TESTED. WHERE ANCHORS ARE USED FOR SILL PLATE BOLTING APPLICATION, 10% OF THE ANCHORS SHALL BE TESTED. FOR EXCEPTIONS TO FREQUENCY REFER TO CBC SECTION 1910A.5.
- APPLY PROOF TEST LOADS TO TORQUE BASED ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.
- FOR SLEEVE INTERNALLY THREADED CATEGORIES, VERIFY THAT THE ANCHOR IS NOT PREVENTED FROM WITHDRAWING BY A BASE PLATE OR OTHER FIXTURES. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE FIXTURE(S) PRIOR TO TESTING.
- REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).
- TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
 - FIELD TEST ACCEPTANCE CRITERIA SHALL SATISFY CBC SECTION 1913A.7.4 WITH THE FOLLOWING MINIMUM REQUIREMENTS:
 - HYDRAULIC RAM METHOD: MAINTAIN TEST LOAD FOR 15 SECONDS MINIMUM WITH NO DISCERNIBLE MOVEMENT
 - MAINTAIN SPECIFIED TORQUE WITHIN 2. TORQUE WRENCH METHOD: ONE-HALF TURN OF THE NUT. SEE CBC SECTION 1910A FOR

DURING TEST.

EXCEPTIONS.

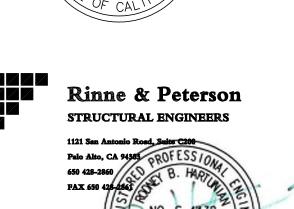
- IN THE EVENT OF ANY TEST FAILURE. TEST ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY CONSECUTIVE PASS. THEN RESUME INITIAL TESTING FREQUENCY. PATCH ALL HOLES WHERE FASTENERS ARE REMOVED USING NON-SHRINK GROUT, PACKED
- ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS SUPPORTING SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED THROUGH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.

ABBREVIATIONS

ALT. ALTERNATE L.L. LIVE APPROX. APPROXIMATE [LY] L.L.V. LONG	RAL LOAD G LEG VERTICAL G LEG HORIZONTAL
BETW. BETWEEN LONGIT. LONG BLDG. BUILDING BLK. BLOCK [ING] MAT. MATE B.N. BOUNDARY NAIL MAX. MAXI B.O.F. BOTTOM OF FOOTING M.B. MACH B.O.P. BOTTOM OF PIER CAP MECH. MECH BOT. BOTTOM MFR. MANU BSMT. BASEMENT MIN. MININ	GITUDINAL TWEIGHT ERIAL IMUM HINE BOLT HANICAL UFACTURER MUM
C.C. CENTER TO CENTER CL CENTER LINE C.J. CONSTRUCTION JOINT COLD JOINT COLD JOINT CLG. CEILING CLR. CLEAR COL. COLUMN COL. COLUMN COL. CONCRETE MASONRY UNIT CJP COMPLETE JOINT PENETRATION [N] NEW NOM. NOMI NOMI NOM. NOM. NOMI N.S. NEAR	TH IN CONTRACT BER [#]
CONN. CONNECTION O.D. OUTS CONSTR. CONSTRUCTION O.F.C. OUTS CONT. CONTINUOUS O.F.S. OUTS COORD. COORDINATE O.H. OPPOCITED. CENTERED OPNG. OPEN CSK. COUNTERSINK OPP. OPPOCITED.	SIDE DIAMETER SIDE FACE OF CONCRETE SIDE FACE OF STUDS OSITE HAND
DCW DEMAND CRITICAL WELD P.D.F. POWIDER. DETAIL P.E.N. PLYW. DF DOUGLAS FIR P.J. POUF DIAG. DIAGONAL PL PLAT DIA. OR Ø DIAMETER PLF POUNDIM. DIMENSION PLY. PLYW. DN. DOWN PSF POUNDO. DITTO PSI POUNDWG. DRAWING PT. POINT PRES	NDS PER LINEAL FOOT VOOD NDS PER SQUARE FOOT NDS PER SQUARE INCH
	FORCED [ING] UIRED
EL. ELEVATION S.A.D. SEE ELEC. ELECTRICAL S.C.D. SEE ELEV'R. ELEVATOR SCHED. SCHE EMBED. EMBEDMENT SECT. SECT ENG. ENGINEER [ED] SH. SHEE E.N. EDGE NAILING SIM. SIMIL EQ. EQUAL SFRS SEISI EQPT. EQUIPMENT S.M.S. SHEE EQUIV. EQUIPMENT S.M.S. SHEE EQUIV. EQUIVALENT S.M.D. SEE EST. ESTIMATE [D] SPECS. SPECE E.W. EACH WAY SQ. SQUAR EXIST. [E] EXISTING	ET LAR MIC FORCE RESISTING SYSTEM ET METAL SCREW MECHANICAL DRAWINGS B ON GRADE CIFICATIONS
FDN. FOUNDATION STD. STAN FIN. FINISH [ED] STIFF. STIFF STIFF STIFF STIFF STIFF STIFF STIFF STIFF STIFF STIFF STIFF STIFF STIFF STIFF STRUCT.	NDARD FENER
FT. FEET THK. THICI FTG. FOOTING T.O.F. TOP [F] FUTURE T.O.S. TOP	GUE AND GROOVE K [NESS] OF FOOTING OF PLYWOOD OF STEEL
GALV. GALVANIZED THRU THRO GLB GLULAM BEAM T.N. TOE	EADED OUGH NAIL NSVERSE CAL
HEX. HEXAGONAL HGR. HANGER VERT. VERT HORIZ. HORIZONTAL V.I.F. VERI HSB HIGH STRENGTH BOLT	ESS OTHERWISE NOTED TICAL IFY IN FIELD
I.D. INSIDE DIAMETER W.P. WOR INCL. INCLUDING W.T.S. WELI INFO. INFORMATION WT. WEIG	E FLANGE RK POINT DD SCREW DED THREADED STUD

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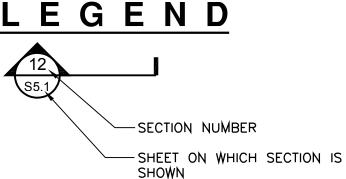
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POURED IN PLACE CONCRETE

JOINT

DISCONTINUOUS WOOD [BLOCKING]

EXISTING CONCRETE

CONTINUOUS WOOD

STRUCTURAL STEEL

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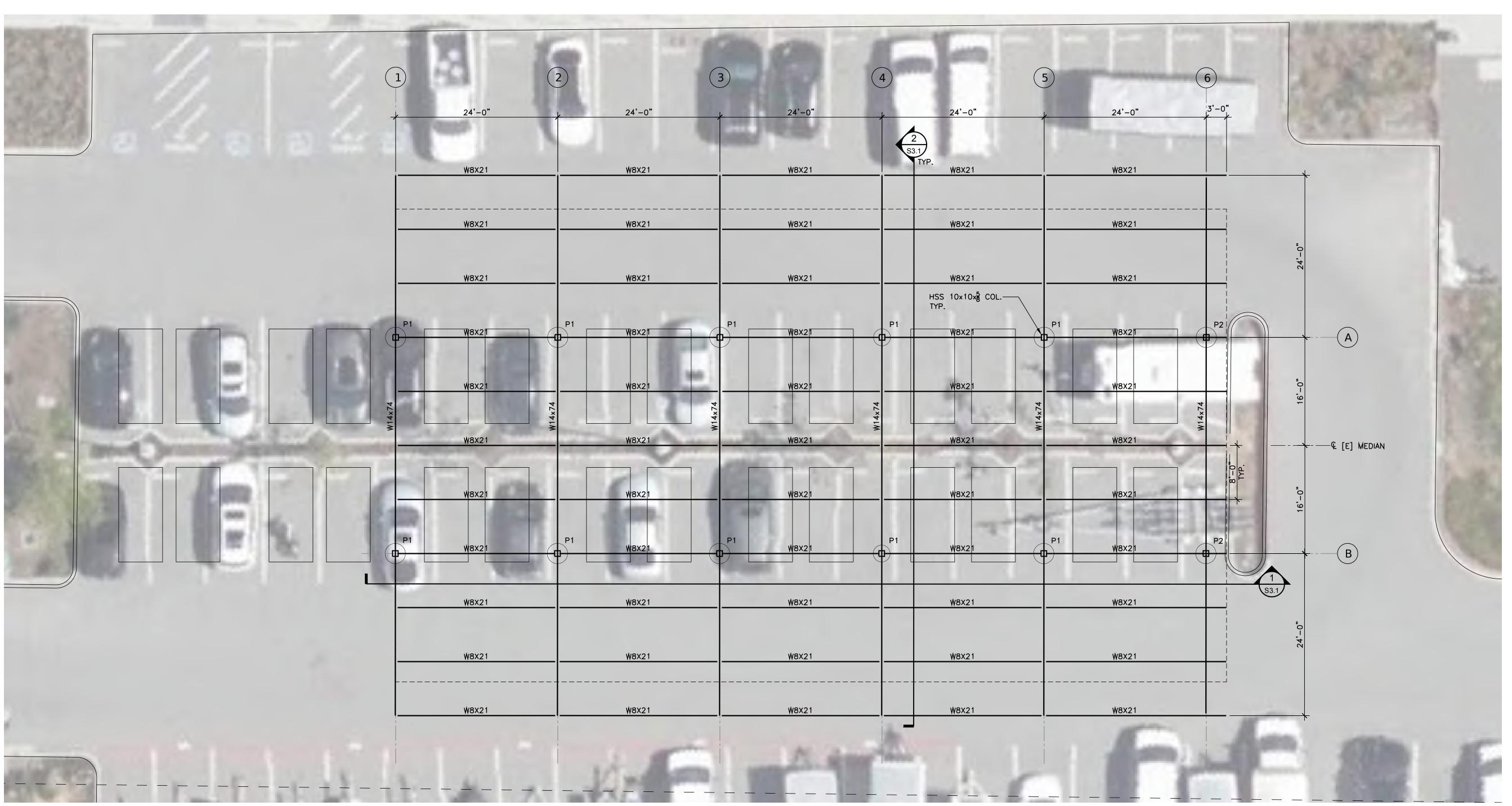
SITE AT ALL TIMES

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General Notes



SOLAR STRUCTURE FRAMING PLAN

NOTES:

1. SEE SHEET SO.1 FOR GENERAL NOTES.

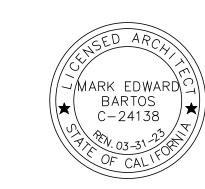
2. P1 DENOTES PIER, SEE SCHEDULE (2)

MARK	DIAMETER	DEPTH
P1	36"	10'
P2	36"	15'

2. DEPTH IS FEET BELOW ADJACENT GRADE.

PIER SCHEDULE

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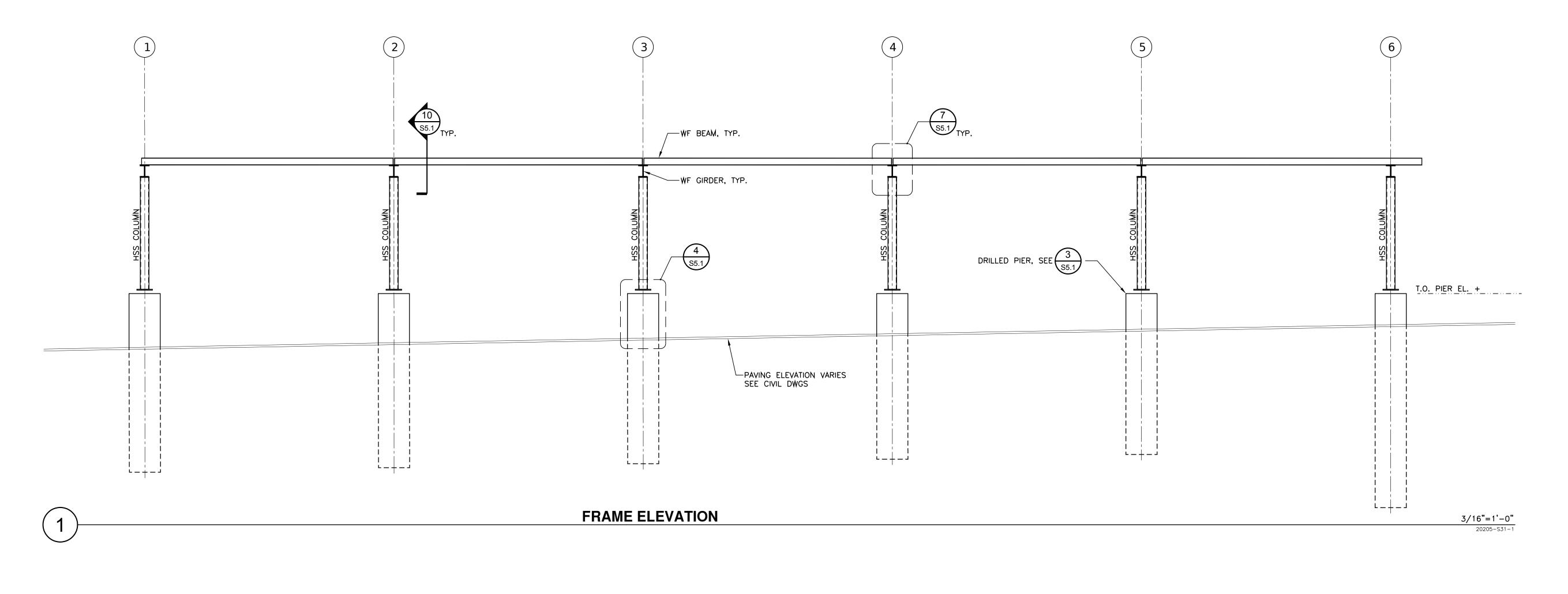
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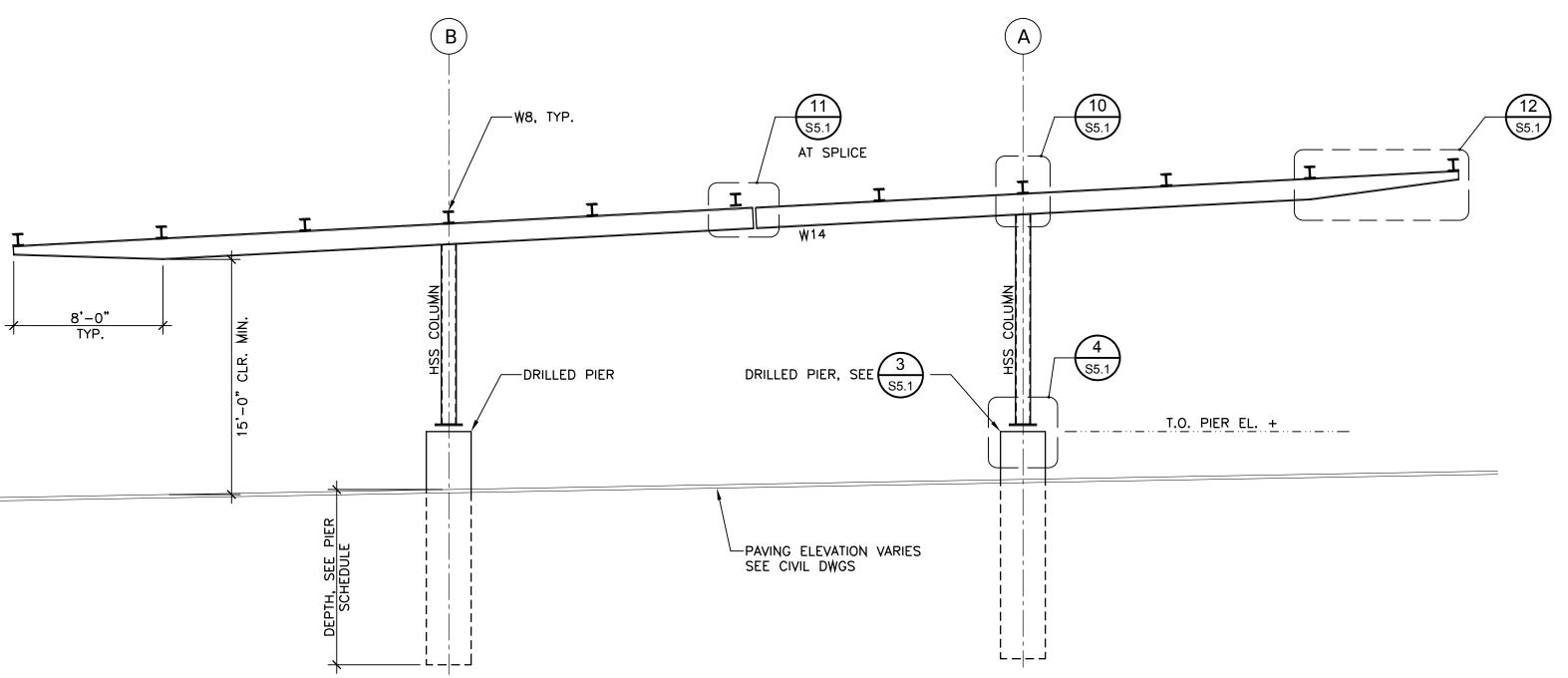
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Solar Structure Framing Plan and Elevation

S2.1

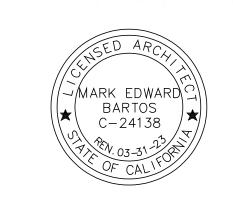




FRAME ELEVATION

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3/16"=1'-0" 20205-S31-2

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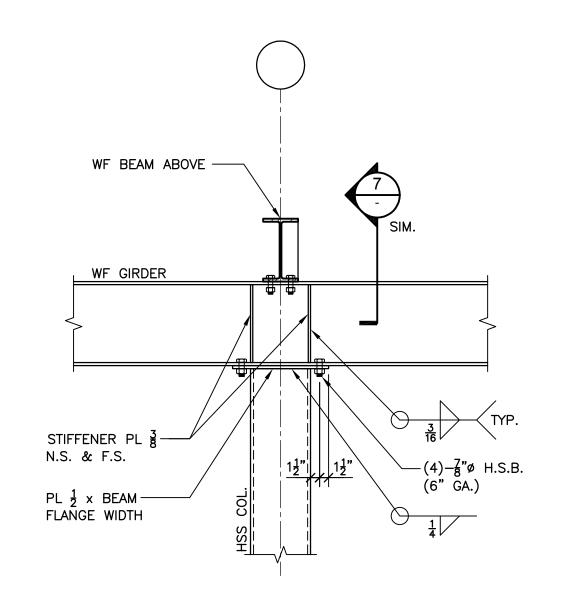
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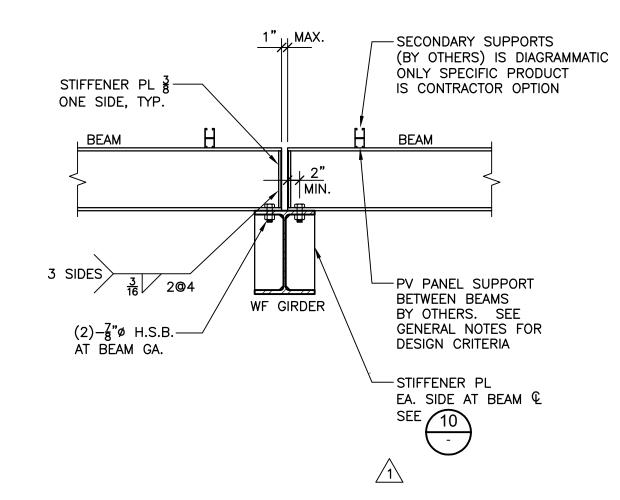
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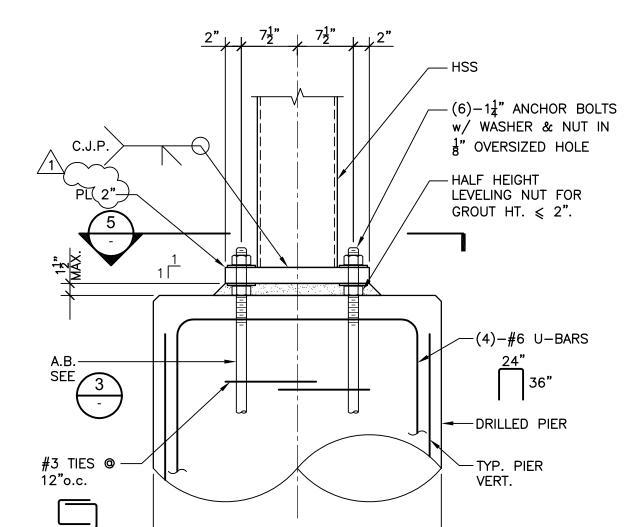
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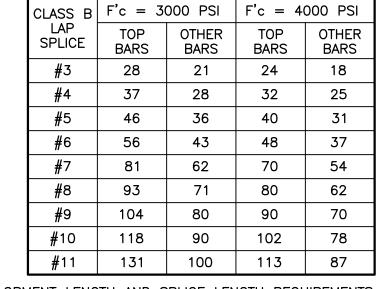
Frame **Elevations**

> **S3.1** BA 21-001









- 1. DEVELOPMENT LENGTH AND SPLICE LENGTH REQUIREMENTS ARE BASED ON 2010 CBC AND ACI-318-08. SPLICE LENGTHS SHOWN IN TABLE ARE IN INCHES.
- TENSION BAR LAP SPLICES SHALL CONFORM TO ACI CLASS B SPLICE LENGTHS, UNLESS NOTED OTHERWISE.
- LAP SPLICE LENGTHS ARE BASED ON GRADE 60 REINFORCING AND NORMAL
- TOP REINFORCEMENT IS DEFINED AS HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE CAST IN MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICES.
- TENSION LAP SPLICE CANNOT BE USED FOR #14 AND #18 BARS.
- WHERE 2 DIFFERENT BAR SIZES ARE LAPPED, THE SPLICE LENGTH SHALL BE BASED ON THE LARGER BAR SIZE.
- 7. COMPLY WITH ACI SECTION 12.2 DEVELOPMENT LENGTH = LAP LENGTH / 1.3

GIRDER TO COLUMN CONNECTION





SEE PIER SCHEDULE

(1	`	

REINFORCING BAR SPLICES

[NORMAL WEIGHT CONCRETE]

San Mateo County

Sheriff's Office 400 County Center Redwood City, CA

Maple Street

1300 Maple St

REVISION

Issued For Permit

Geotech Approval

1\Plan Check Resubmittal

Correctional Facility

Redwood City, CA 94063

Solar

4/14/2021

1/17/2022

Shade

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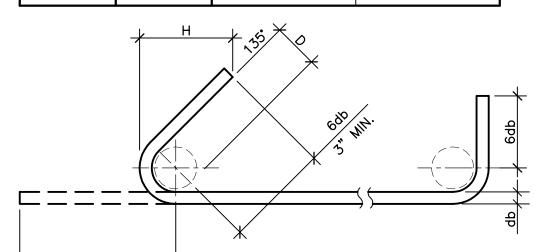
BARTOS

C-24138

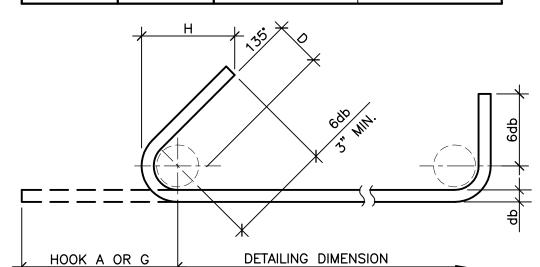
Rinne & Peterson

STRUCTURAL ENGINEERS

135° HOOK HOOK A OR G H APPROX.

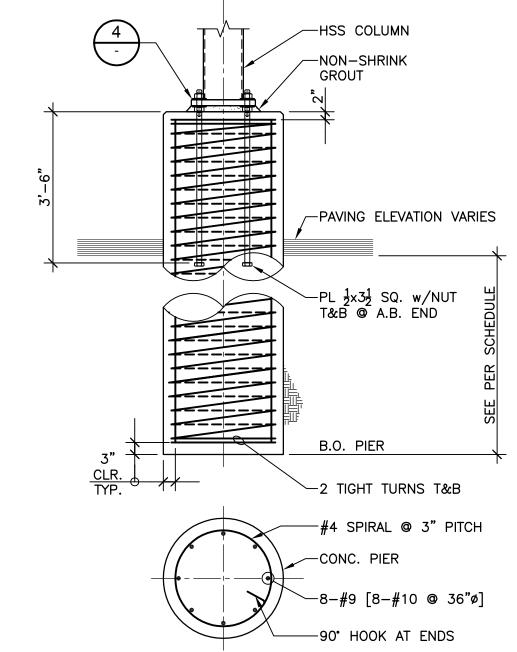


SIZE



CL PIER

SEISMIC STIRRUP/TIE HOOK

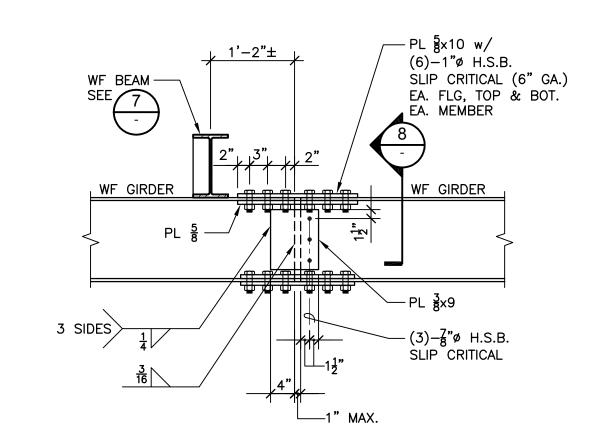


DRILLED PIER

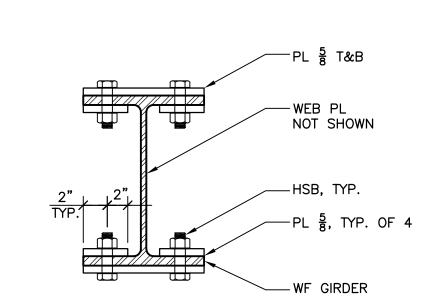
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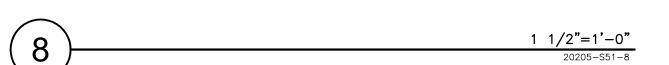
Details

S5.1

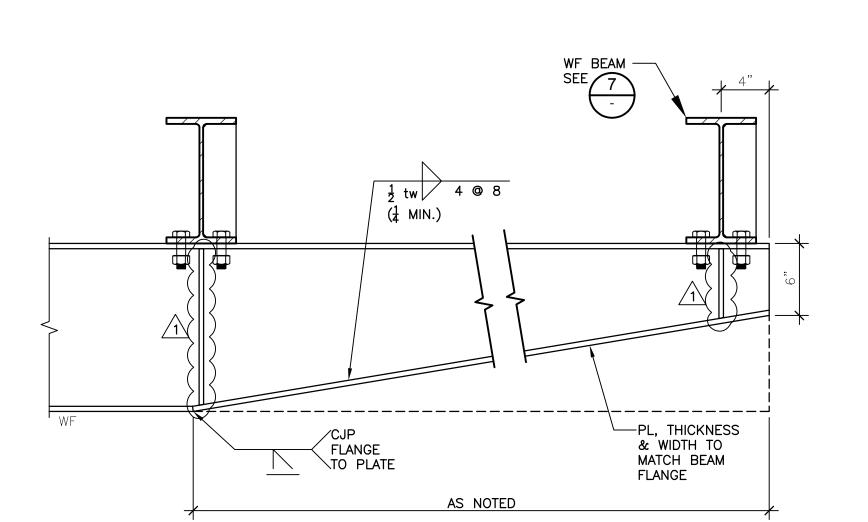


GIRDER SPLICE





BASE PLATE PLAN



TAPERED WF BEAM

an Mateo County Correctional Facility Solar Panels 20205 RH\20205-S51.dwg, 5/22/2023 7:38:05 PM

20205-S51-12

-HSS COL. -CONDUIT, SEE ELEC. DWGS

-WF GIRDER

DIRECTION ABOVE

1 1/2"=1'-0" 20205-S51-5

[ASTM A572 GR 50]

1/2"=1'-0" 20205-S51-3

SYMBO	L LIST:
EI.I	PLAN, DETAIL OR SECTION DESIGNATION.
201	ROOM NUMBER.
	SHEET REFERENCE SYMBOL - SEE ASSOCIATED NOTE ON SAME SHEET.
3	FEEDER SCHEDULE SYMBOL.
(CH)	MECHANICAL EQUIPMENT TAG.
A	INDICATES FIXTURE TYPE
LUMINAIRE	SYMBOLS
	LUMINAIRE - SEE SCHEDULE.
<u> </u>	LUMINAIRE - SEE SCHEDULE.
	LUMINAIRE - SEE SCHEDULE.
	LUMINAIRE - SEE SCHEDULE.
o	POLE MOUNTED LUMINAIRE - SEE SCHEDULE.
o	POLE MOUNTED LUMINAIRE - SEE SCHEDULE.
(LUMINAIRE - SEE SCHEDULE.
0	LUMINAIRE - SEE SCHEDULE.
О	LUMINAIRE WALL MOUNTED-SEE SCHEDULE.
	EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
EM	EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
	EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
	EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
H	EMERGENCY LUMINAIRE WALL MOUNTED- PROVIDE EM. BATTERY BALLAS
\otimes	EXIT LIGHT SINGLE FACE - SEE SCHEDULE.
8	EXIT LIGHT SINGLE FACE (WITH ARROW)- SEE SCHEDULE.
	EXIT LIGHT (DOUBLE FACED WITH ARROW)- SEE SCHEDULE.
	EMERGENCY BATTERY PACK EXIT LIGHT INSTALL AS DIRECTED.
RECEPTAC	LE SYMBOLS
Ф	CONVENIENCE RECEPTACLE - DUPLEX AT + 18" AFF UON.
lack	GFCI CONVENIENCE RECEPTACLE - DUPLEX.
∮ ^B	CONVENIENCE RECEPTACLE - DUPLEX CONNECTED TO GFCI CIRCUIT BREAKER. MOUNTED AT +18" AFF UON.
-	RECEPTACLE - DOUBLE DUPLEX AT + 18" AFF UON.
*	RECEPTACLE - DOUBLE DUPLEX ON CEILING

SINGLE RECEPTACLE - NEMA 5-20R UON, AT + 18" AFF UON.

SINGLE RECEPTACLE - NEMA L21 - 208 VOLT, THREE PHASE,

5 WIRE, AT +18" AFF UON.

 $\bigoplus \nabla$ CEILING MOUNTED BOX WITH DATA OUTLET AND DOUBLE DUPLEX RECEPTACLE.

RACEWAY SHALL BE WIREMOLD #5500.

 $\bigcirc \triangle \oplus$

 \bigoplus

FLOOR MOUNTED BOX WITH DATA OUTLET AND DUPLEX RECEPTACLE AND A/V CONNECTION. SEE A/V DETAIL FOR

ADDITIONAL INFORMATION.

3-CHANNEL SURFACE RACEMAY, INSTALL AT +36" AFF UON.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN AREA OF NEW TRENCHING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. EXTREME CARE SHALL BE MAINTAINED DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN AREA. MODIFICATIONS TO EXISTING SYSTEMS MAY BE REQUIRED TO ACCOMMODATE NEW SYSTEM CONFIGURATION AND SHALL BE MADE BY THE CONTRACTOR WITHOUT EXTRA EXPENSE TO THE OWNER THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. THE CONTRACTOR SHALL EXAMINE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL NEW WORK.

POWER DISTRIBUTION SYMBOLS

	PANELBOARD - SURFACE OR FLUSH MOUNTED.
	JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE TO CODE, TAPE AND TAG WIRES. PROVIDE FLEX AND/OR RECEPTACLE AS REQUIRED TO CONNECT EQUIPMENT.
	DISTRIBUTION PANEL.
<u>/M</u> /	MOTOR.
80	COMBINATION MAGNETIC STARTER FUSED DISCONNECT SMITCH. RATING AS INDICATED.

60 _| UNFUSED DISCONNECT SMITCH - RATING AS INDICATED. FUSED DISCONNECT SWITCH - SIZE FUSES PER MOTOR

100 MANUFACTURER'S RECOMMENDATIONS. RATING AS INDICATED. \mathbb{I}_{\bigotimes} MAGNETIC STARTER - NEMA SIZE INDICATED.

T TRANSFORMER - SEE SINGLE LINE FOR SIZE.

WIRING & CONDUIT RUN SYMBOLS

CONDUIT - STUB UP.

CAPPED CONDUIT.

CIRCUIT BREAKER.

FUSED SWITCH.

TRANSFORMER.

—-E--E--E--

 \bigcirc

SHEET NO.

E1.1

E1.2

E1.3

E1.4

E2.1

E2.2

E2.3

E3.1

E3.2

E3.3

E4.1

E4.2

E4.3

E4.4

SHEET TITLE

ELECTRICAL COVER PAGE

NEW LIGHTING SITE PLAN

NEW SINGLE LINE DIAGRAM

PV PANEL LAYOUT

PV RISER DIAGRAM

PV RISER DIAGRAM

ELECTRICAL DETAILS

ELECTRICAL DETAILS

PV CALCULATIONS

PV LABELING

ELECTRICAL SITE PLAN NEW

DEMOLITION LIGHTING SITE PLAN

ENLARGED LIGHTING SITE PLAN

ENLARGED ELECTRICAL SITE PLAN NEW

ENLARGED ELECTRICAL EQUIPMENT YARD

CONDUIT - STUB DOWN.

CONDUIT CONTINUATION

POWER DISTRIBUTION SINGLE LINE SYMBOLS

DRAM-OUT CIRCUIT BREAKER.

"PG&E" METER W/ CURRENT TRANSFORMER

NORMALLY OPENED, AUXILIARY CONTACT.

NORMALLY CLOSED, AUXILIARY CONTACT.

AUTOMATIC TRANSFER SWITCH.

EMERGENCY GENERATOR.

DRAWING INDEX

CONDUIT EMERGENCY SYSTEM.

GROUND ROD.

	CONDUIT - EXPOSED.
	CONDUIT - IN OR BELOW FLOOR: 3/4"MIN.
#10	CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES. CROSSHATCH WITH SUBSCRIPT "G" INDICATES GREEN

CONDUIT - CONCEALED IN WALLS OR CEILING

MIRES. CROSSHATCH MITH SUBSCRIPT "G" INDICATES GREEN GROUND WIRE. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSSHATCHES WITH "#IO" INDICATES

WIRE SIZE OTHER THAN #12'S. FLEX CONDUIT WITH CONNECTION.

II. ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO

WORK TO AVOID CONFLICTS.

13. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF LIGHTING FIXTURES AND DEVICES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF CEILING TYPES FROM ARCHITECTURAL DOCUMENTS AND PROVIDE AND INSTALL ALL REQUIRED FIXTURE MOUNTING HARDWARE. PROVIDE AND INSTALL U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED CEILINGS.

14. FROM ALL NEW PANELS; THE CONTRACTOR SHALL STUB UP INTO ACCESSIBLE CEILING SPACE A MINIMUM OF FOUR (4) 3/4" CONDUITS FOR FUTURE USE.

MODIFYING THE EXISTING FIRE ALARM, CATY, DATA, TELEPHONE, CLOCK AND INTERCOM SYSTEMS TO ACCOMMODATE ADDITIONS NOTED. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS NEEDED TO MAKE A FULLY OPERATIONAL SYSTEM AT THE CONCLUSION OF

16. UTILITY SERVICE WORK SHALL BE IN ACCORDANCE WITH THE SERVING UTILITY COMPANY'S RULES, REGULATIONS AND STANDARDS, AND SHALL BE VERIFIED WITH UTILITY COMPANY'S ENGINEERING DRAWINGS AND FIELD SUPERVISOR PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND POWER, CATY AND TELEPHONE SERVICES FROM SERVING UTILITIES. FIELD ADJUSTMENTS MAY BE REQUIRED IN INDIVIDUAL SERVICE LOCATIONS. THE CONTRACTOR SHALL REMAIN IN CONTACT WITH UTILITY COMPANY ENGINEERING DEPARTMENTS THROUGHOUT PROJECT TO INSURE COORDINATION AND SCHEDULING OF WORK.

17. THE CONTRACTOR SHALL PROVIDE IN EVERY CONDUIT A DRAW STRING FOR USE IN FUTURE

18. PROVIDE CONDUIT BETWEEN THERMOSTATS, AIR CONDITIONING CONTROL PANELS MOTOR STARTERS, SOLENOID VALVES AND AIR CONDITIONING UNITS, SEE MECHANICAL DRAWINGS FOR CONTROL WIRING SIZES OR SIZE CONDUITS PER NATIONAL ELECTRICAL CODE AS REQUIRED, MINIMUM CONDUIT SIZE: 3/4".

19. POWER FEEDERS MAY NOT BE SHOWN ON THE DRAWINGS, REFER TO THE SINGLE LINE DIAGRAM FOR CONDUIT AND FEEDER INFORMATION. ALL DRAWINGS ARE DIAGRAMMATIC INDICATING LOCATION OR POSITION OF EQUIPMENT. FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION OF ANY WORK.

20. MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR SIZING, CIRCUIT BREAKER OR FUSE PROTECTION OF ELECTRICALLY OPERATED EQUIPMENT MAY DIFFER FROM THOSE INDICATED ON DRAWINGS. CONTRACTOR SHALL CONFIRM RATINGS PRIOR TO ORDERING EQUIPMENT. PROVIDE ELECTRICAL PROTECTION TO EQUIPMENT IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS AND PER NATIONAL ELECTRICAL CODE REQUIREMENTS.

21. CONTRACTOR SHALL REVIEW EQUIPMENT REQUIREMENTS OF OTHER TRADES AND PROVIDE POWER CIRCUITS AND CONNECTIONS TO ELECTRICALLY OPERATED EQUIPMENT.

22. PROVIDE SEISMIC BRACING FOR ALL PENDANT LIGHT FIXTURES, FREESTANDING ELECTRICAL DISTRIBUTION EQUIPMENT, MOTOR CONTROL CENTERS ETC; AND CONDUIT RACKS PER SEISMIC CRITERIA 2016 UBC REQUIREMENTS INCLUDING ENGINEERED LOAD CALCULATIONS COMPLETE WITH SWAY BRACING CRITERIA.

24. MEASURE THE MAIN 3-PHASE AND PHASE TO NEUTRAL SERVICE VOLTAGE PRIOR TO ENERGIZING ANY PANELS OR EQUIPMENT. AVOID ENERGIZING 277V LIGHTING PANELS WITH VOLTAGE ABOVE 282V.

25. SERVICE VOLTAGE PRIOR TO ENERGIZING ANY PANELS OR EQUIPMENT. AVOID ENERGIZING 208Y PANELS PHASE TO NEUTRAL VOLTAGE ABOVE 130 VOLTS. TRANSFORMER TAP SETTING MAY REQUIRE CHANGING

GENERAL NOTES:

- THE CONTRACTOR SHALL BE LICENSED BY THE STATE OF CALIFORNIA C-10 AND SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION
- 2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
- PRIOR TO SUBMITTING A BID THE CONTRACTOR SHALL VISIT THE SITE, REVIEW THE EXISTING CONDITIONS AND ALLOW FOR LABOR, MATERIAL AND COORDINATION THAT IS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF EACH SYSTEM. THE CONTRACTOR SHALL OBTAIN AND BE FAMILIAR WITH ALL OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
- 5. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS. "AS-BUILT" DRAWINGS SHALL SHOW ACTUAL CHANGES TO ORIGINAL ELECTRICAL DRAWING, SHOW LOCATIONS OF PULLBOXES, CONDUIT RUNS AND WIRING CHANGES.
- 6. ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
- 7. THE CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
- 8. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK. THE CONTRACTOR SHALL CONTACT "UNDERGROUND SERVICES ALERT" FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF UNDERGROUND WORK.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
- 10. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS. ALL EXTERIOR CONDUITS SHALL BE "RSG" UNLESS OTHERWISE NOTED ON DRAWINGS.
- (2) #12'S WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR "ROUGH" ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
- 12. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER
- 15. THE CONTRACTOR SHALL PRIOR TO BID, FIELD VERIFY ALL REQUIREMENTS FOR PROJECT WORK.
- CONSTRUCTION.

- 23. EFFECTIVELY BOND ELECTRICAL CABINETS, ENCLOSURES AND CONDUIT RACEWAYS TO CODE APPROVED GROUND AS PART OF THE CONTINUOUS GROUNDING SYSTEM.

- 26. MEASURE THE MAIN SECONDARY I-PHASE AND PHASE TO NEUTRAL SERVICE VOLTAGE PRIOR TO ENERGIZING ANY PANELS OR EQUIPMENT. AVOID ENERGIZING 240V PANELS PHASE TO NEUTRAL VOLTAGE ABOVE 130 VOLTS. TRANSFORMER TAP SETTING MAY REQUIRE CHANGING.
- 27. DO NOT SUBSTITUTE SPECIFIED MATERIAL OR EQUIPMENT WITHOUT FIRST OBTAINING APPROVAL FROM THE OWNER OR HIS REPRESENTATIVE.

BACKGROUND PREFERRED

AMPERE

- 28. IDENTIFY ALL ABOVE CEILING JUNCTION BOXES COVERS WITH PANEL AND CIRCUITS IN LEGIBLE PRINT USING BLACK INDELIBLE INK.
- 29. LABEL ALL WALL AND/OR WIREMOLD MOUNTED OUTLET DEVICES WITH PANEL CIRCUIT IDENTIFICATION WITH BOLD TYPE-PRINTED LABELING. BLACK LETTERING ON WHITE
- 30. DERATE CONDUCTORS IN RACEWAYS IN ACCORDANCE WITH NEC CODE REQUIREMENTS. PANEL FEEDERS TO WIREMOLDS CAN ENTER AT VARIOUS LOCATIONS TO LIMIT CONDUCTOR CIRCUITS PER WIREMOLD CAPACITIES.
- 31. ELECTRICAL RACEWAYS BETWEEN STRUCTURES NEED TO BE SUFFICIENTLY FLEXIBLE TO WITHSTAND RELATIVE MOTION OF SUPPORT POINTS WHERE EXPANSION JOINTS OCCUR. THE CONTRACTOR SHALL COORDINATE WITH STRUCTURAL / ARCHITECTURAL DRAWINGS AND PROVIDE FLEXIBLE CONDUITS AT THE EXPANSION JOINTS. FLEXIBLE CONDUIT SHALL BE MAXIMUM OF 6' WITH LESS 45° BENDS TOTAL.

ABBREVIATIONS

A	AMPERE	KV	KILOVOLT
ABV	ABOVE	KVA	KILOVOLT AMPERES
AF	AMP FRAME OR AMP FUSE	KM	KILOMATT
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
ARCH	ARCHITECTURAL	MCM	THOUSAND CIRCULAR MILS
AS	AMP SWITCH	MDF	MAIN DISTRIBUTION FRAME
AT	AMP TRIP	MECH	MECHANICAL
ATS	AUTOMATIC TRANSFER SWITCH	MH	MANHOLE
BKR	BREAKER	MTD	MOUNTED
BLDG	BUILDING	MTG	MOUNTING
C	CONDUIT	(N)	NEW
CATV	CABLE TELEVISION	NC	NORMALLY CLOSED
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CD	CANDELAS	NIEC	NOT IN ELECTRICAL CONTRAC
CKT	CIRCUIT	NO	NUMBER/ NORMALLY OPEN
CL	CENTER LINE	NTS	NOT TO SCALE
CLG	CEILING	O.C.	ON CENTER
CO	CONDUIT ONLY	P	POLE CIRCUIT BREAKER
ÇTR	CENTER	PA	PUBLIC ADDRESS
(D)	DEMOLISH	PB	PULL BOX
DET	DETAIL	PF	POWER FACTOR
DIM	DIMENSION	PH	PHASE
DISTR	DISTRIBUTION	PNL	PANEL
DMG	DRAWING	(R)	EXISTING TO BE RELOCATED
(E)	EXISTING	REQD	REQUIRED
EM	EMERGENCY	REQT	REQUIREMENT(S)
EQPT		RM	ROOM
FA	FIRE ALARM	RSC	RIGID STEEL CONDUIT
FACP	FIRE ALARM CONTROL PANEL	SHT	SHEET
(F)	FUTURE	SM	SMITCH
FIN	FINISH	SMBD	SWITCHBOARD
FL	FLOOR	TC	TERMINAL CABINET
G, GND		TEL	TELEPHONE
HGT	HEIGHT	TYP	TYPICAL
HP 16	HORSEPOWER	UON	UNLESS OTHERWISE NOTED
10	INTERCOM	V	VOLT
IDF	INTERMEDIATE DISTRIBUTION FRAME	M	WATT
JB KAIC	JUNCTION BOX	MP	WEATHERPROOF
7410	KILOAMPERE INTERRUPTING CAPACITY	XFMR	TRANSFORMER

GENERAL ANCHORAGE NOTES:

MEP COMPONENT ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC. SECTIONS 1615A.1.18 THOUGH 1615A.1.26 AND ASCE 7-10 CHAPTER 13, 26, AND 30.

I. ALL PERMANENT EQUIPMENT AND COMPONENTS.

2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRE) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.

3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAT 8 HOURS AND HEAVIER THAT 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.

- A. COMPONENTS WEIGHTING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-IO SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2016 CBC, SECTION 1615A.1.24, 1615A.1.25 AND

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEM. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

 $\mathsf{MP} \square \mathsf{MD} \square \mathsf{PP} \square \mathsf{E} \boxtimes \mathsf{-} \mathsf{OPTION} \mathsf{I} : \mathsf{DETAILED} \mathsf{ON} \mathsf{THE} \mathsf{APPROVED} \mathsf{DRAWINGS} \mathsf{WITH}$ PROJECT SPECIFIC NOTES AND DETAILS.

MP \square MD \square PP \square E \square - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #

MP MD PP - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS.

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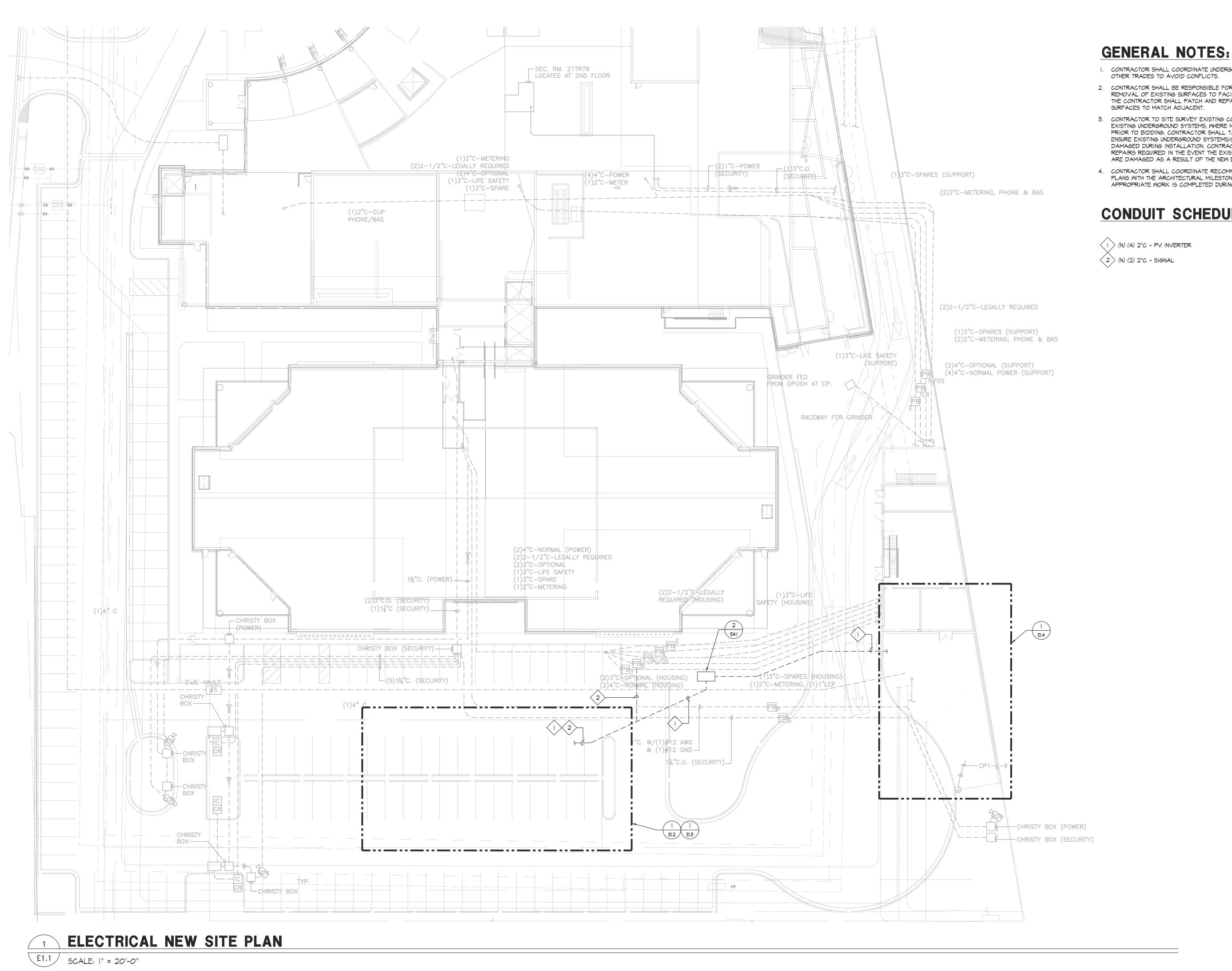
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ELECTRICAL COVER PAGE E0.1



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- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT
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- 4. CONTRACTOR SHALL COORDINATE RECOMMENDED ELECTRICAL MILESTONE PLANS WITH THE ARCHITECTURAL MILESTONE PLANS TO ENSURE APPROPRIATE WORK IS COMPLETED DURING EACH MILESTONE.

CONDUIT SCHEDULE:



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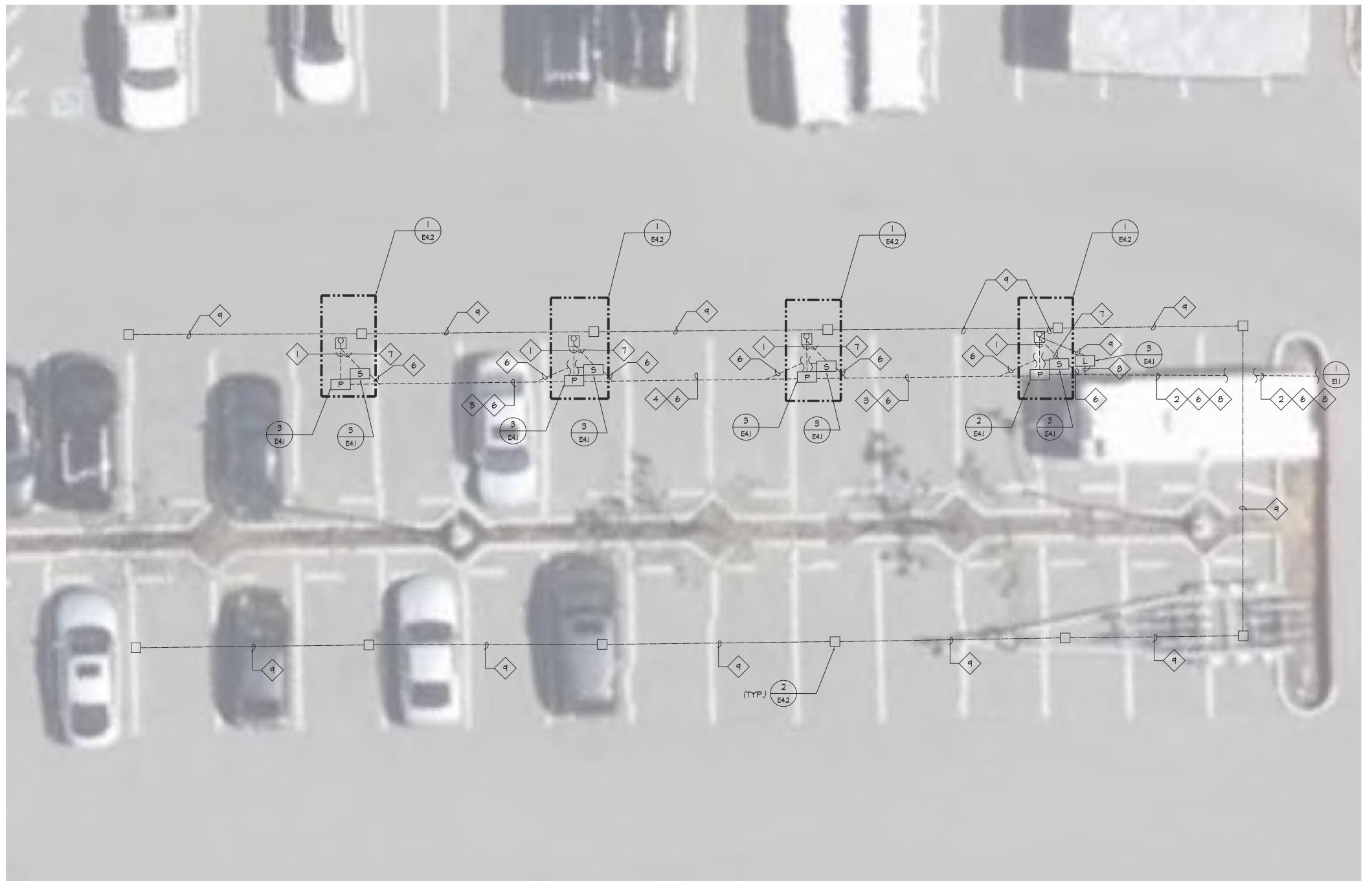
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ELECTRICAL NEW SITE PLAN E1.1



GENERAL NOTES:

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- 4. CONTRACTOR SHALL COORDINATE RECOMMENDED ELECTRICAL MILESTONE PLANS WITH THE ARCHITECTURAL MILESTONE PLANS TO ENSURE APPROPRIATE WORK IS COMPLETED DURING EACH MILESTONE.

CONDUIT SCHEDULE:

| (N) (I) | $\frac{1}{4}$ "C - PV INVERTER | 2 (N) (4) 2"C - PV INVERTER | 3 (A) 3) 2"C - PV INVERTER

3 (N) 3) 2"C - PV INVERTER
4 (N) (2) 2"C - PV INVERTER

5 (N) (I) 2"C - PV INVERTER

6 (N) (2) 2"C - SIGNAL

(7 > (N) (2) | 1/4"C - SIGNAL

8 (N) (1) 2"C - LIGHTING

9 (N) (I) I 4"C - LIGHTING

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ENLARGED ELECTRICAL NEW SITE PLAN **E1.2**

BA 21-001

ENLARGED NEW ELECTRICAL SITE PLAN

E1.2 | SCALE: |/4" = |'-0"

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4-10-6	4-6-3	4-6-2	4-1-9	4-1-8	3-7-5	3-7-4	3-3-1	3-2-l <i>0</i>	2-8-7	2-8-6	2-4-3 	2-4-2	- 9 -9	 	I -5- 5	-5-4 -5-4	- -
4-10-5	4-6-4	4-6-1	4-1-10	4-1-7	3-7-6	3-7-3	3-3-2	3-2-9	2-8-8	2-8-5	2-4-4	2-4-I	1-9-10	 	-5-6 	I - 5-3	- -2
		4-5-10	4-2-1	4-1-6	3-7-7	3-7-2	3-3-3	3-2-8	2-8-9	2-8-4	2-4-5	2-3-10	I-I <i>O</i> -I	i 	-5-7 	I-5-2	-I-3
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4-9-10	+	4-5-6	4-2-5		3-8-1	3-6-8	3-3-7	3-2-4	2-9-3	2-7-10		2-3-6	 I-I <i>O</i> -5	-9-2	 -6- 	 -4-8 	1-1-1
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4-8-9	4-7-10	 4-4-5	+ 4-3-6	+ 3-10-1	+ 3-9-2 	3-5-7	+ 3-4-8	3-1-3	2-10-4	+ 2-6-9	2-5-10	2-2-5	2-1-6	-8-	-7-2	1-3-7	 I-2-8
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4-8-7	4-8-2	+ 4-4-3	4-3-8	3-9-9	+ 3-9-4	 3-5-5	3-4-10	3-1-1	2-10-6	2-6-7	2-6-2	2-2-3	2-1-8	1-7-9	-7-4	 -3-5 	 -2- 0
4-8-6	4-8-3	+ 4-4-2	4-3-9	3-9-8	+ 3-9-5	+ 3-5-4	+ 3-5-I	2-10-10	2-10-7	2-6-6	2-6-3	2-2-2	+ 2- -9	1-7-8	-7-5 -7-5	 -3-4	-3- -3-
4-8-5	4-8-4	4-4-1	4-3-10	3-9-7	3-9-6	3-5-3	+ 3-5-2	2-10-9	2-10-8	2-6-5	2-6-4	2-2-1	2-1-10	1-7-7	1-7-6	1-3-3	-3-2

PV PANEL LAYOUT



GENERAL NOTES:

- I. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICTS.
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- 4. CONTRACTOR SHALL COORDINATE RECOMMENDED ELECTRICAL MILESTONE PLANS WITH THE ARCHITECTURAL MILESTONE PLANS TO ENSURE APPROPRIATE WORK IS COMPLETED DURING EACH MILESTONE.
- 5. SOLAR PANEL SHOULD BE SUNPOWER 470M X SERIES #X21-470-COM PANEL. OR APPROVED EQUAL PRODUCTS WILL BE REVIEWED AND APPROVED PROVIDED THAT PROVED SIMILAR PERFORMANCE CHARACTERISTICS TO THE SUN POWER SOLAR PANEL. THE CONTRACTOR WILL BE RESPONSIBLE FOR RESIZING THE STRINGS AND PROVIDING STRINGS CALCULATIONS TO CONFIRM QUANTITY OF PANELS PER STRING. OVERALL SYSTEM SIZE AND FOOTPRINT SHOULD BE EQUIVALENT TO THE SUN POWER SOLAR SYSTEM.
- 6. MOUNTING OF THE PANELS TO THE STRUCTURE SHALL BE THE RESPONSIBILITY)
 TO CONTRACTOR. RACKING SYSTEM AND MOUNTING SHALL BE DESIGNED AND)
 INSTALLED BY THE CONTRACTOR. CONTRACTOR SHALL PROVIDE SUBMITTAL)
 WITH ALL DETAILING AND CALCULATIONS REQUIRED FOR RACKING/MOUNTING)
 SYSTEM AND HOW IT IS SECURED TO THE STRUCTURE.

'unumumumim'





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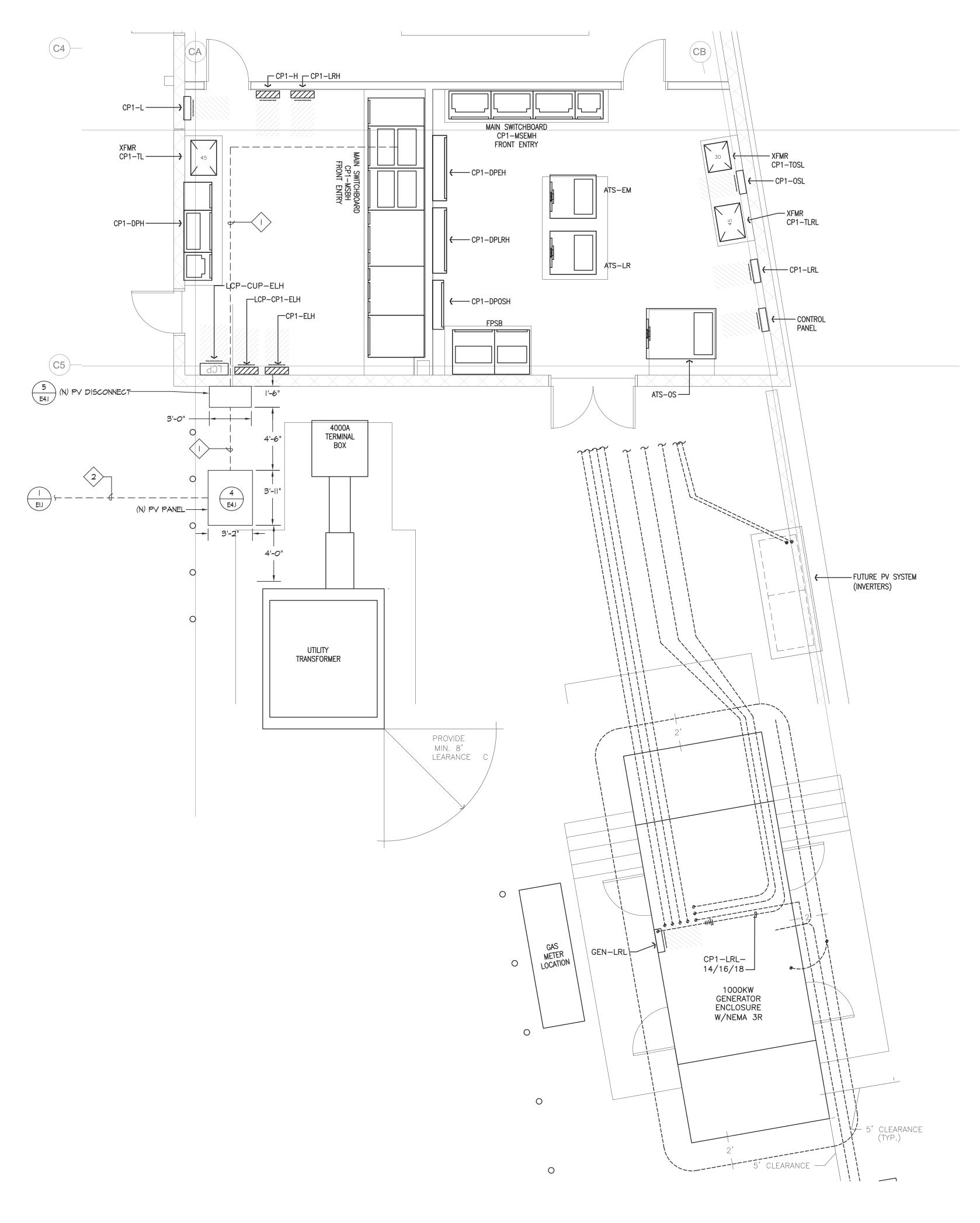
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PV PANEL LAYOUT

E1.3



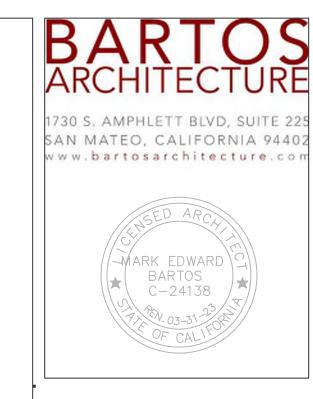
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CONDUIT SCHEDULE:

1 2 SET OF (N) 4"C WITH (4) #600KCMIL + (1) #1/0 CU GND

2 (N) (4) 2"C - PV INVERTER





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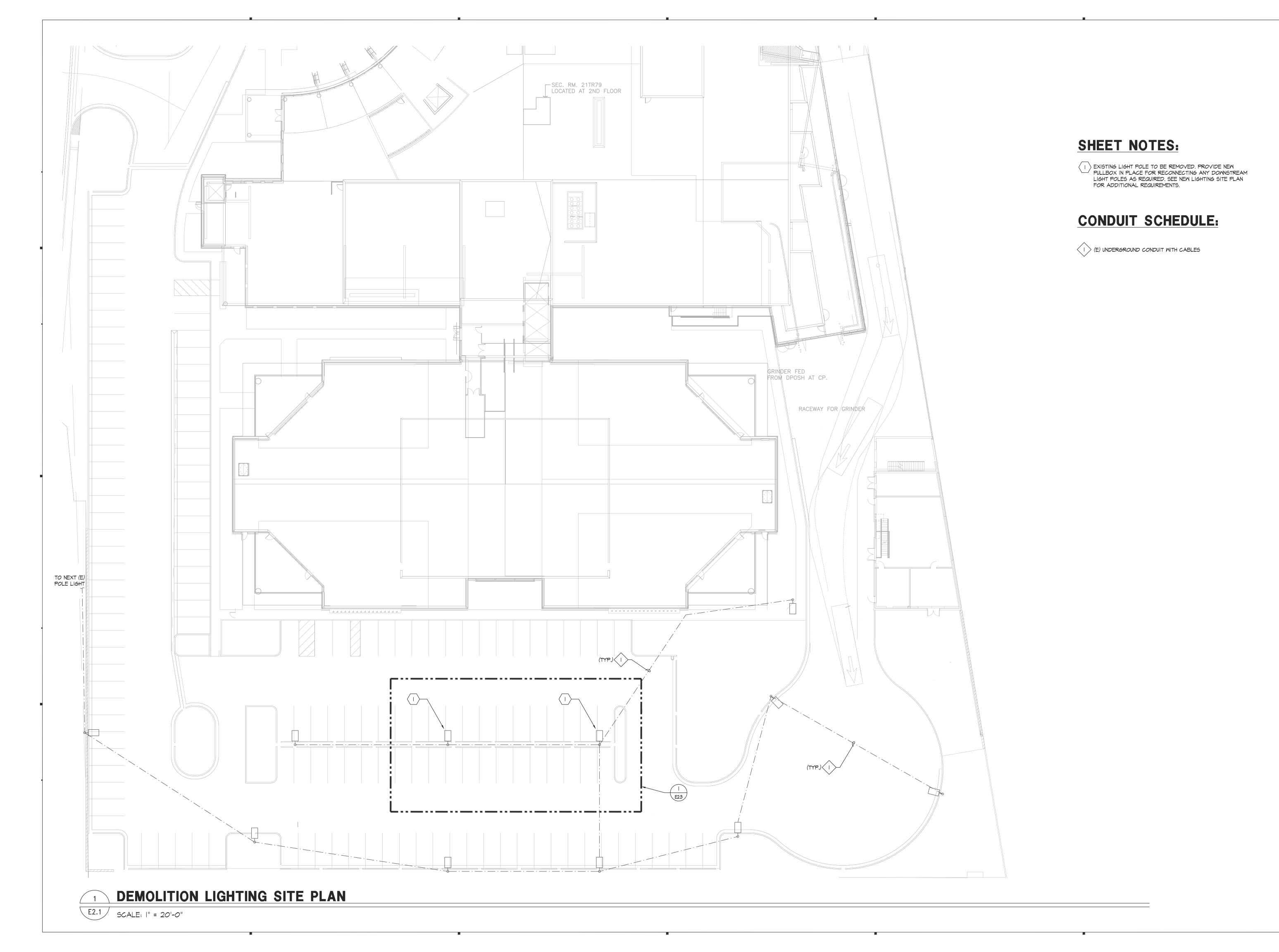
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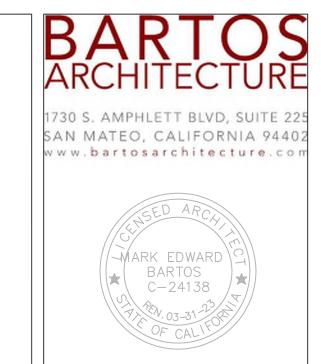
ENLARGED ELECTRICAL EQUIPMENT YARD

E1.4

E1.4 SCALE: 1/4" = 1'-0"

ENLARGED ELECTRICAL EQUIPMENT YARD







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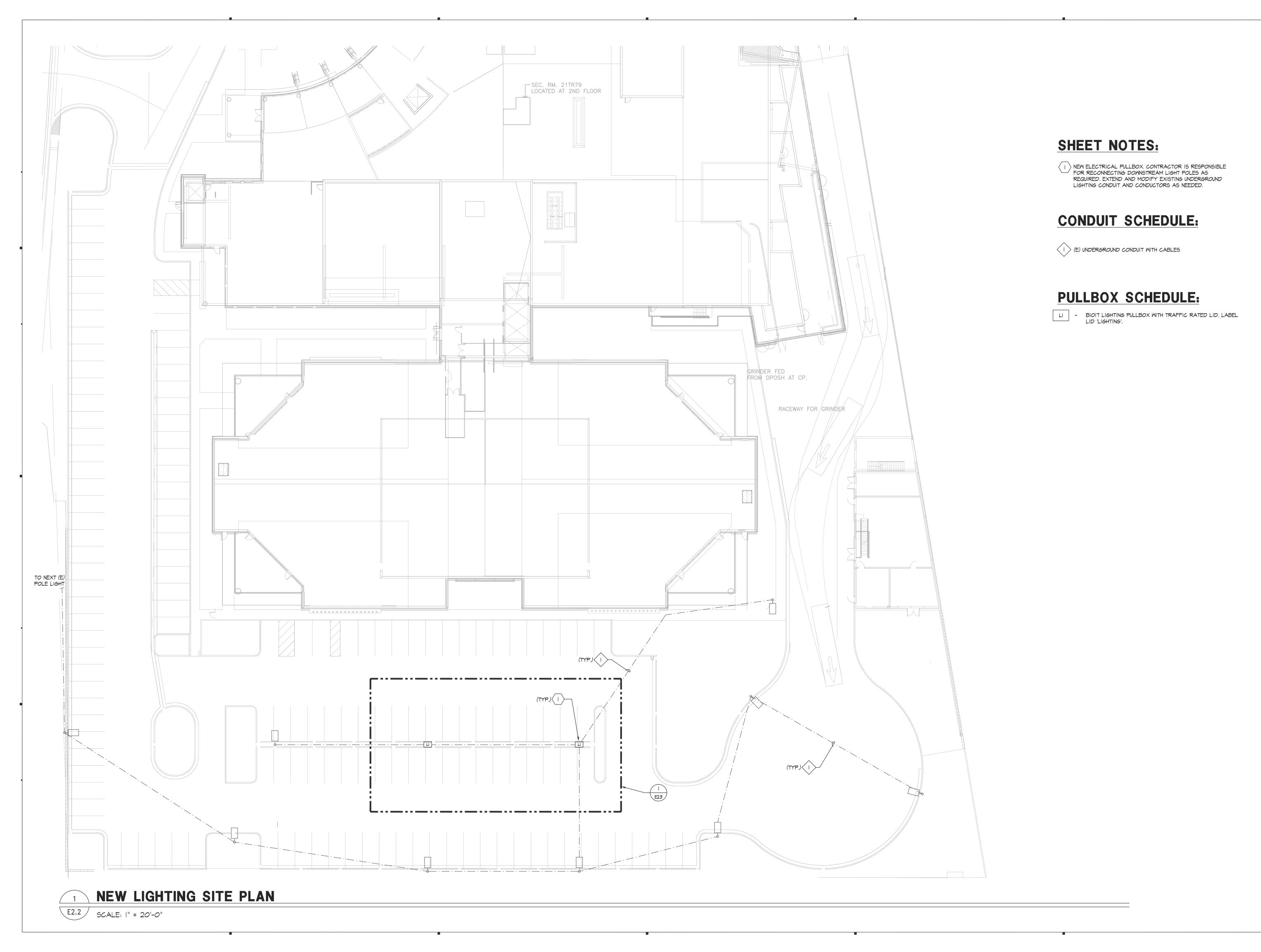
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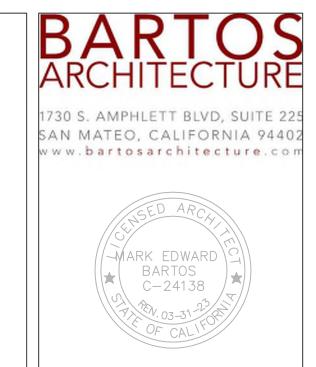
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DEMOLITION LIGHTING SITE PLAN

E2.1







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> Solar Shade Structure

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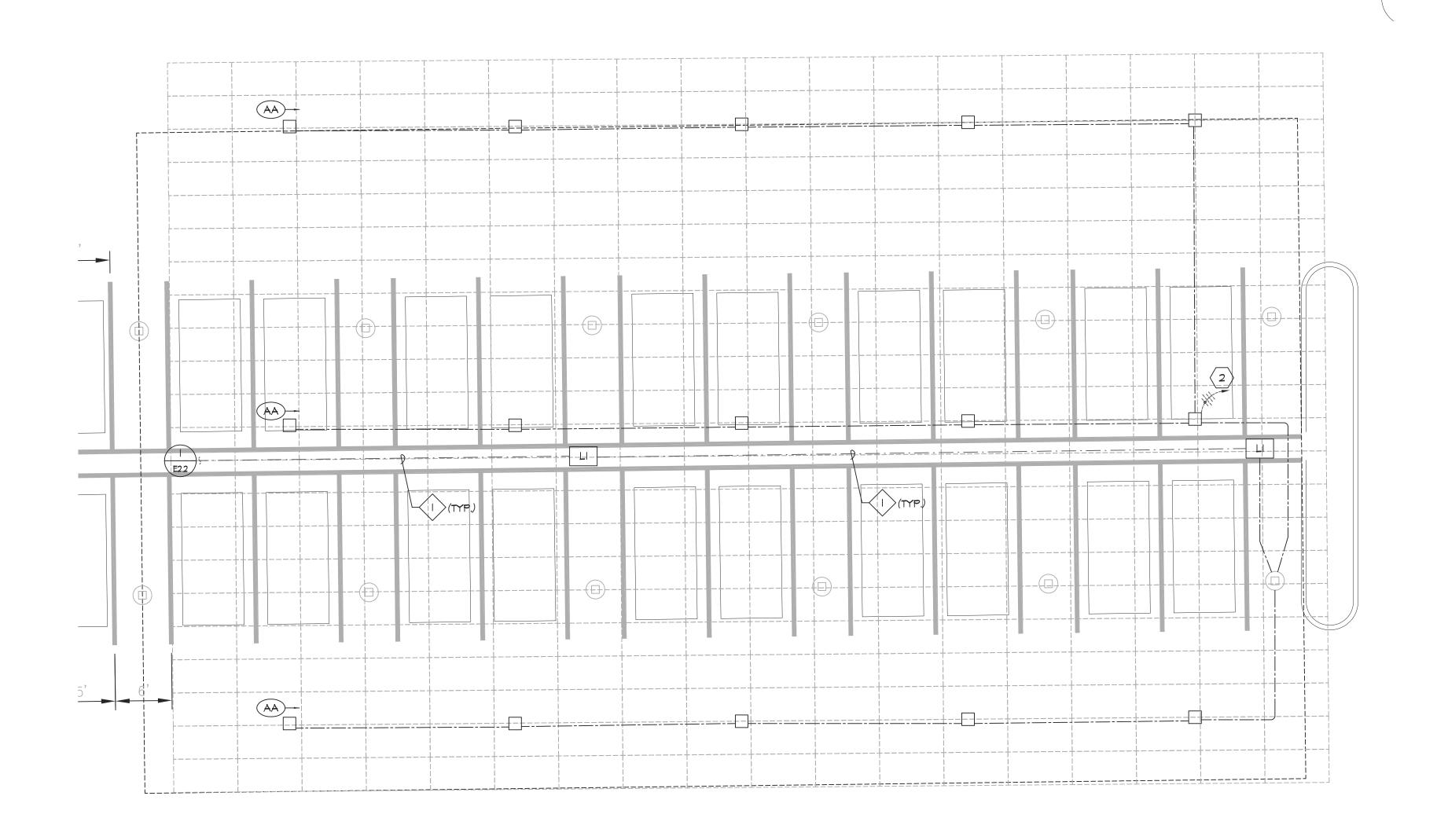
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ENLARGED LIGHTING SITE PLAN

E2.3 | SCALE: |/8" = |'-0"

	FIXTURE SCHEDULE									
TYPE LAMPS LAMP BALLAST/ MOUNTING DRIVER MOUNTING		MOUNTING	DESCRIPTION	WEIGHT						
					ALL FIXTURE TYPES FOLLOWED BY AN "E" AND HALF SHADED ON THE FLOOR PLANS ARE EMERGENCY FIXTURES. FIXTURES SHALL BE CONNECTED TO THE LIGHTING INVERTER WITH A MINIMUM OF 90 MINUTES. EMERGENCY FIXTURES SHALL WIRED FOR SWITCHING CAPABILITIES AND SHALL BE SWITCHED PER THE FLOOR PLAN. EXIT SIGNS SHALL BE CONNECTED TO THE EMERGENCY LIGHTING CIRCUIT.					
AA	L.E.D. 38W	N/A	O-IOV DIMMING DRIVER	SURFACE MOUNTED IN CANOPY WALKWAY	SLENDERFORM SFC/SFCR GARAGE AND CANOPY LUMINAIRE FEATURES HIGH OUTPUT LEDS AND A SLEEK, YET POWERFUL, LOW PROFILE DESIGN. THE THIN 3" PROFILE COMBINED WITH LED HIGH PERFORMANCE. RUGGED EXTRUDED ALUMINUM HOUSING BODY WITH AN INTEGRAL LED THERMAL MANAGEMENT SYSTEM, WITH DIE CAST ALUMINUM END CAPS.	27 LBS				
					GARDCO - SFC-5R-48L-250-NW-G2-277-MGY OR APPROVED EQUAL 277 VOLT					

SHEET NOTES:

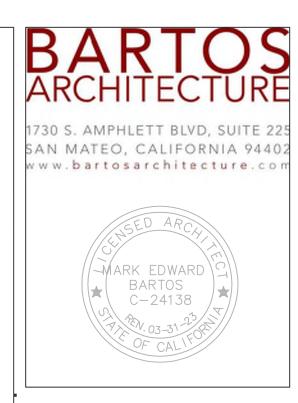
- NEW ELECTRICAL PULLBOX. CONTRACTOR IS RESPONSIBLE FOR RECONNECTING DOWNSTREAM LIGHT POLES AS REQUIRED. EXTEND AND MODIFY EXISTING UNDERGROUND LIGHTING CONDUIT AND CONDUCTORS AS NEEDED.
- 2 CONNECT NEW CANOPY FIXTURE TO THE EXISTING 277V LIGHTING CIRCUITRY SERVING IN THIS AREA AS REQUIRED.

CONDUIT SCHEDULE:

(E) UNDERGROUND CONDUIT WITH CABLES

PULLBOX SCHEDULE:

LI - BIOI7 LIGHTING PULLBOX WITH TRAFFIC RATED LID. LABEL LID 'LIGHTING'.





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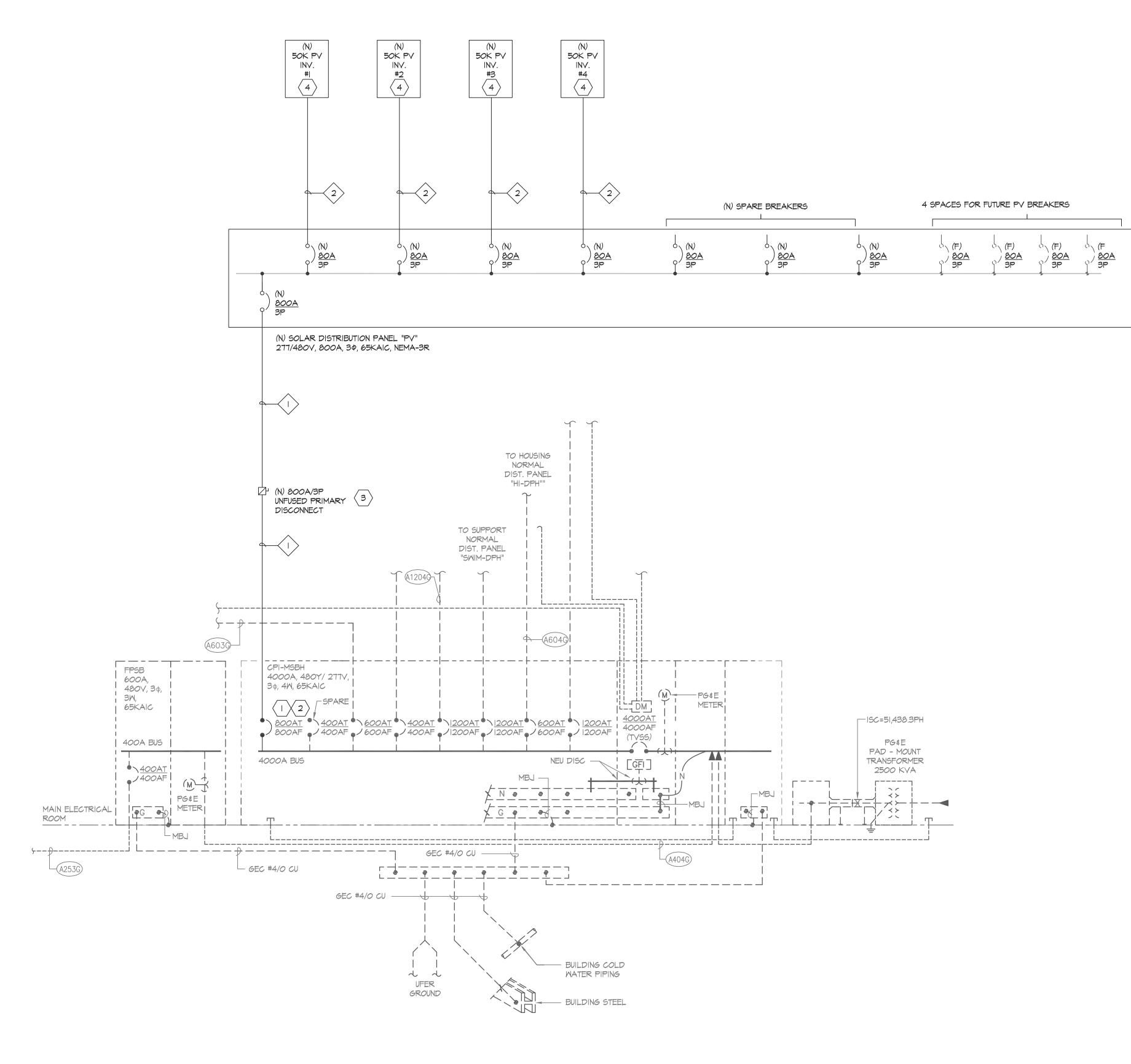
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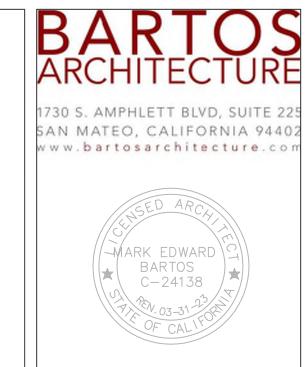
SHEET NOTES:

- I) INSTALL (N) BREAKER IN SPACE AT FURTHEST POINT FROM MAIN BREAKER.
- 2 PROVIDE NEW BREAKER. MATCH EXISTING BREAKER FRAME, STYLE AND AIC RATING.
- 3 DISCONNECT SHALL BE ON PG & E'S APPROVED LIST FOR PV SYSTEM DISCONNECTS.
- (4) (N) PV INVERTER WITH BUILT IN DISCONNECT SWITCH.

CONDUIT SCHEDULE:

- 1 2 SET OF (N) 4"C WITH (4) #600KCMIL + (1) #1/0 CU GND
- (2) (N) 2"C WITH (4) #2 + (1) #6 CU GND







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SINGLE LINE DIAGRAM

E3.1

E3.1

SINGLE LINE DIAGRAM

NOT TO SCALE

GENERAL NOTES:

- TOTAL OF (4) ARRAYS WITH 396 SOLAR PHOTOVOLTAIC MODULES. SEE SOLAR PHOTOVOLTAIC MODULE LIST FOR SPECIFICATIONS. MODULE IS DESIGNED TO MEET UL 1703, UL 4703, UL FIRE SAFETY CLASS C, IEC 61215 ED.2, AND IEC 61730 CLASS
- 2. INVERTER HAS 6MMPT WITH 2 INPUTS PER MMPT.
- 3. AC DISCONNECT IS INTEGRAL TO THE INVERTER.
- 4. STRING INVERTERS RATED AT 50 KM OUTPUT AND IS RATED TO PROVIDE MAX 64A AT 480V AT AMBIENT TEMPERATURE BETWEEN -25 TO 60 DEG C. MAXIMUM INPUT CURRENT IS 120A. CEC WEIGHTED EFFICIENCY IS 97.5%. POWER FACTOR AT FULL LOAD IS GREATER THAN 0.99.
- 5. INVERTER HAS INTERNAL GROUND FAULT PROTECTION (GFDI) IN ACCORDANCE WITH UL 1741. AND INVERTER IS IN COMPLIANCE WITH UL 1741, IEEE 1547, CSA 107.1-01, IEEE C62.41.2, NEC ART. AND 690 REQUIREMENTS.
- 6. INVERTER WILL BE CONFIGURED FOR 480V SYSTEM TO ALIGN WITH MAIN SERVICE PANEL.
- 7. MAIN SERVICE PANEL IS 3 PHASE, 480VAC, 4000A, 4-WIRE.
- 8. ALL CONDUCTORS SIZED ACCORDING TO NEC TABLE 310.16 CONDUIT COPPER AND NEC ARTICLE 690.8. ALSO SEE DESIGN CALCULATIONS.
- 9. ALL CONDUITS SIZED ACCORDING TO NEC TABLE C.I AND TABLE 310.15 (B)(2)(a). ALSO SEE DESIGN CALCULATIONS.
- 10. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2019 CEC CODE. UNLESS OTHERWISE NOTED
- II. MODULE AND ARRAY GROUNDING IS PER RACKING MANUFACTURER'S SPECIFICATIONS.
- STRING CONDUCTORS MAXIMUM VOLTAGE PROP IS 1%, INVERTER FEEDER MAXIMUM VOLTAGE DROP IS 2%.
- 13. PROVIDE ALL PV SYSTEM LABELING REQUIREMENTS PER CEC AND SHEET E4.4.

CONDUIT SCHEDULE:

(1) (2) #10 2kV 90° PV MIRE \$ (1) #6 BARE CU GND

PHOTOVOLTAIC SYSTEM:

2. STRING INVERTERS

ARRAY #I

MANUFACTURER AND MODEL NUMBER I. PHOTOVOLTAIC MODULES SUNPOWER SPR-X21-470-COM (470W) SMA SUNNY TRIPOWER CORE! 50-US

MODULE SPECS: (NOMINAL) ISC = 6.45A

VPM = 77.6V VOC = 91.5V STC = 470W PTC = 326.7W IPM = 6.06A

INVERTER SPECS: COREI 50-US NOMINAL DC INPUT = 120A MAX CONTINUOUS AC OUTPUT = 64A/PHASE @ 48OV CEC EFF. = 97.5% AC OUTPUT VOLTAGE = 480V, 4 WIRE, 60HZ

INVERTER COREI 50-US TOTAL NUMBER OF MODULES PER ARRAY = 100 MODULES PER STRINGS = 10
TOTAL NUMBER OF STRINGS = 10 PER ARRAY

ARRAY #2 INVERTER COREI 50-US TOTAL NUMBER OF MODULES PER ARRAY = 100

MODULES PER STRINGS = 10

TOTAL NUMBER OF STRINGS = 10 PER ARRAY

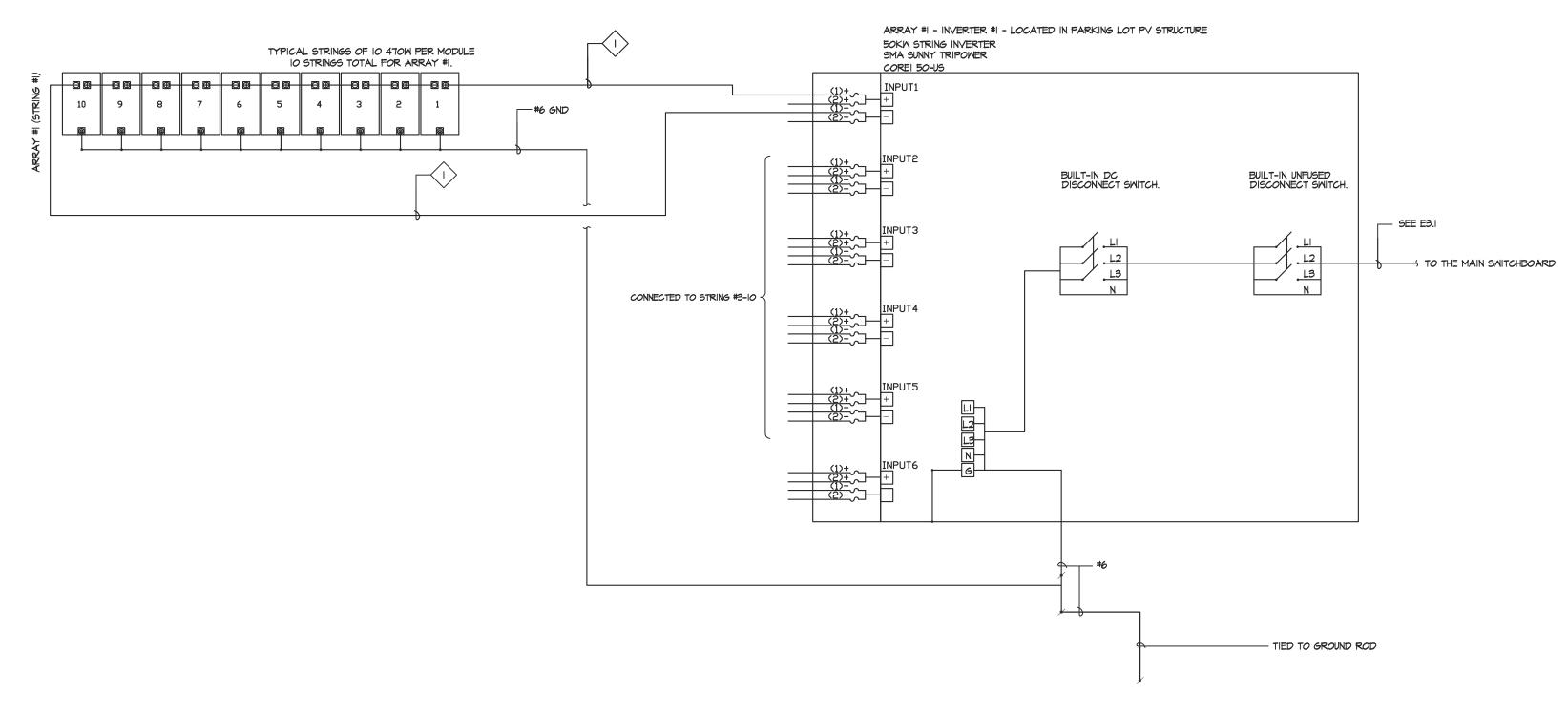
ARRAY #3 INVERTER COREI 50-US TOTAL NUMBER OF MODULES PER ARRAY = 100 MODULES PER STRINGS = 10

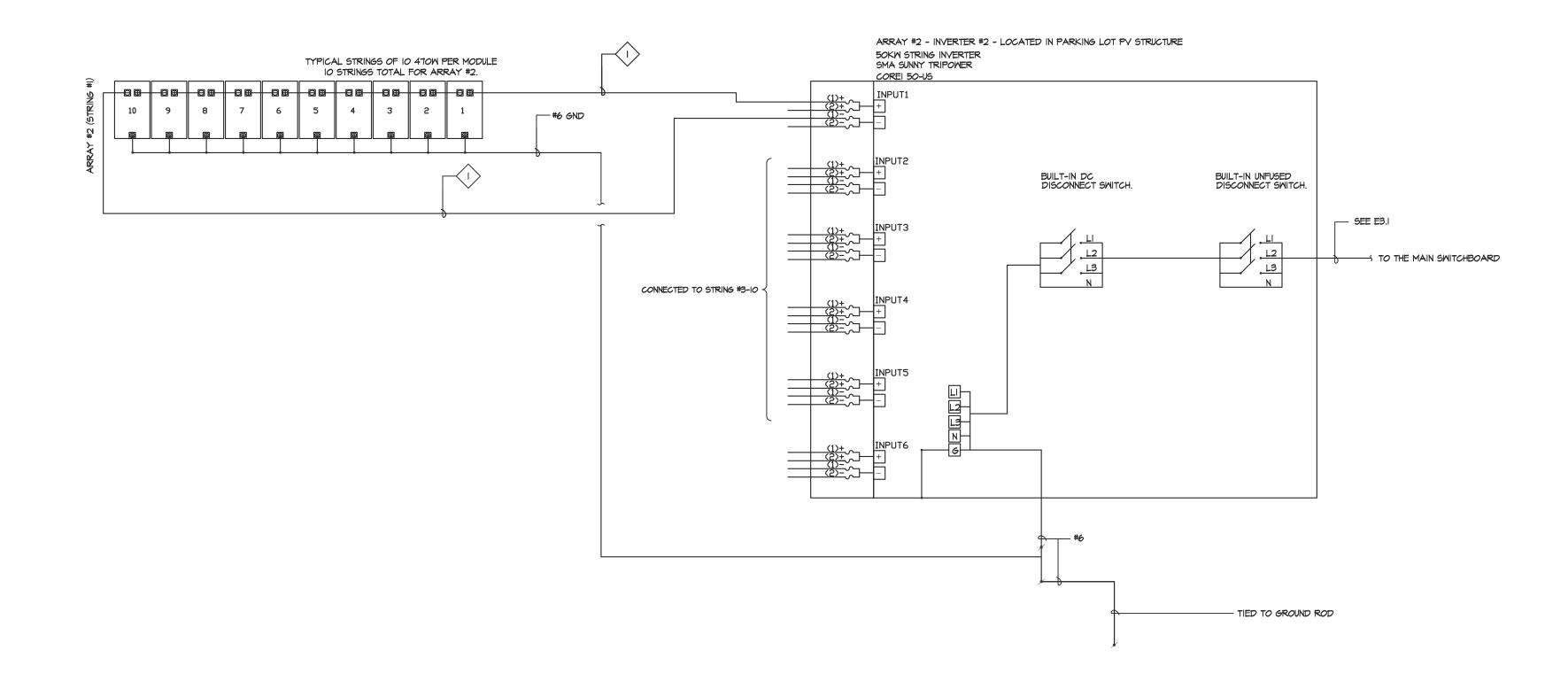
TOTAL NUMBER OF STRINGS = 12 PER ARRAY ARRAY #4 INVERTER COREI 50-US TOTAL NUMBER OF MODULES PER ARRAY = 96 MODULES PER STRINGS = 10 TOTAL NUMBER OF STRINGS = 9 PER ARRAY

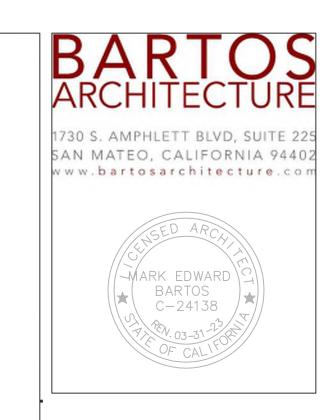
MODULES PER STRINGS = 6

NOTE: SOLAR PANEL SHOULD BE SUNPOWER 470M X SERIES #X21-470-COM PANEL. OR APPROVED EQUAL PRODUCTS WILL BE REVIEWED AND APPROVED PROVIDED THAT PROVED SIMILAR PERFORMANCE CHARACTERISTICS TO THE SUN POWER SOLAR PANEL. THE CONTRACTOR WILL BE RESPONSIBLE FOR RESIZING THE STRINGS AND PROVIDING STRINGS CALCULATIONS TO CONFIRM QUANTITY OF PANELS PER STRING. OVERALL SYSTEM SIZE AND FOOTPRINT SHOULD BE EQUIVALENT TO THE SUN POWER SOLAR

TOTAL NUMBER OF STRINGS = I PER ARRAY









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PV RISER DIAGRAM

E3.2

PV RISER DIAGRAM

GENERAL NOTES:

TOTAL OF (4) ARRAYS WITH 396 SOLAR PHOTOVOLTAIC MODULES. SEE SOLAR PHOTOVOLTAIC MODULE LIST FOR SPECIFICATIONS. MODULE IS DESIGNED TO MEET UL 1703, UL 4703, UL FIRE SAFETY CLASS C, IEC 61215 ED.2, AND IEC 61730 CLASS A STANDARDS.

- 2. INVERTER HAS 6MMPT WITH 2 INPUTS PER MMPT.
- 3. AC DISCONNECT IS INTEGRAL TO THE INVERTER.
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- INVERTER WILL BE CONFIGURED FOR 480V SYSTEM TO ALIGN WITH MAIN SERVICE PANEL.
- 7. MAIN SERVICE PANEL IS 3 PHASE, 480VAC, 4000A, 4-WIRE.
- 8. ALL CONDUCTORS SIZED ACCORDING TO NEC TABLE 310.16
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- IO. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2019 CEC CODE. UNLESS OTHERWISE NOTED
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- STRING CONDUCTORS MAXIMUM VOLTAGE PROP IS 1%, INVERTER FEEDER MAXIMUM VOLTAGE DROP IS 2%.
- 13. PROVIDE ALL PV SYSTEM LABELING REQUIREMENTS

PER CEC AND SHEET E4.4.

CONDUIT SCHEDULE:

(2) #10 2kV 90° PV WIRE \$ (1) #6 BARE CU GND

PHOTOVOLTAIC SYSTEM:

COMPONENT MANUFACTURER AND MODEL NUMBER
1. PHOTOVOLTAIC MODULES SUNPOWER SPR-X2I-470-COM (470W)

2. STRING INVERTERS SMA SUNNY TRIPOWER COREI 50-US

 VOC = 91.5V
 STC = 470W

 IPM = 6.06A
 PTC = 326.7W

INVERTER SPECS: COREI 50-US NOMINAL DC INPUT = I20A MAX CONTINUOUS AC OUTPUT = 64A/PHASE @ 480V

CEC EFF. = 97.5%
AC OUTPUT VOLTAGE = 480V, 4 WIRE, 60HZ

ARRAY #I
INVERTER COREI 50-US

TOTAL NUMBER OF MODULES PER ARRAY = 100
MODULES PER STRINGS = 10
TOTAL NUMBER OF STRINGS = 10 PER ARRAY
ARRAY #2

INVERTER COREI 50-US
TOTAL NUMBER OF MODULES PER ARRAY = 100
MODULES PER STRINGS = 10
TOTAL NUMBER OF STRINGS = 10 PER ARRAY

INVERTER COREI 50-US

TOTAL NUMBER OF MODULES PER ARRAY = 100

MODULES PER STRINGS = 10

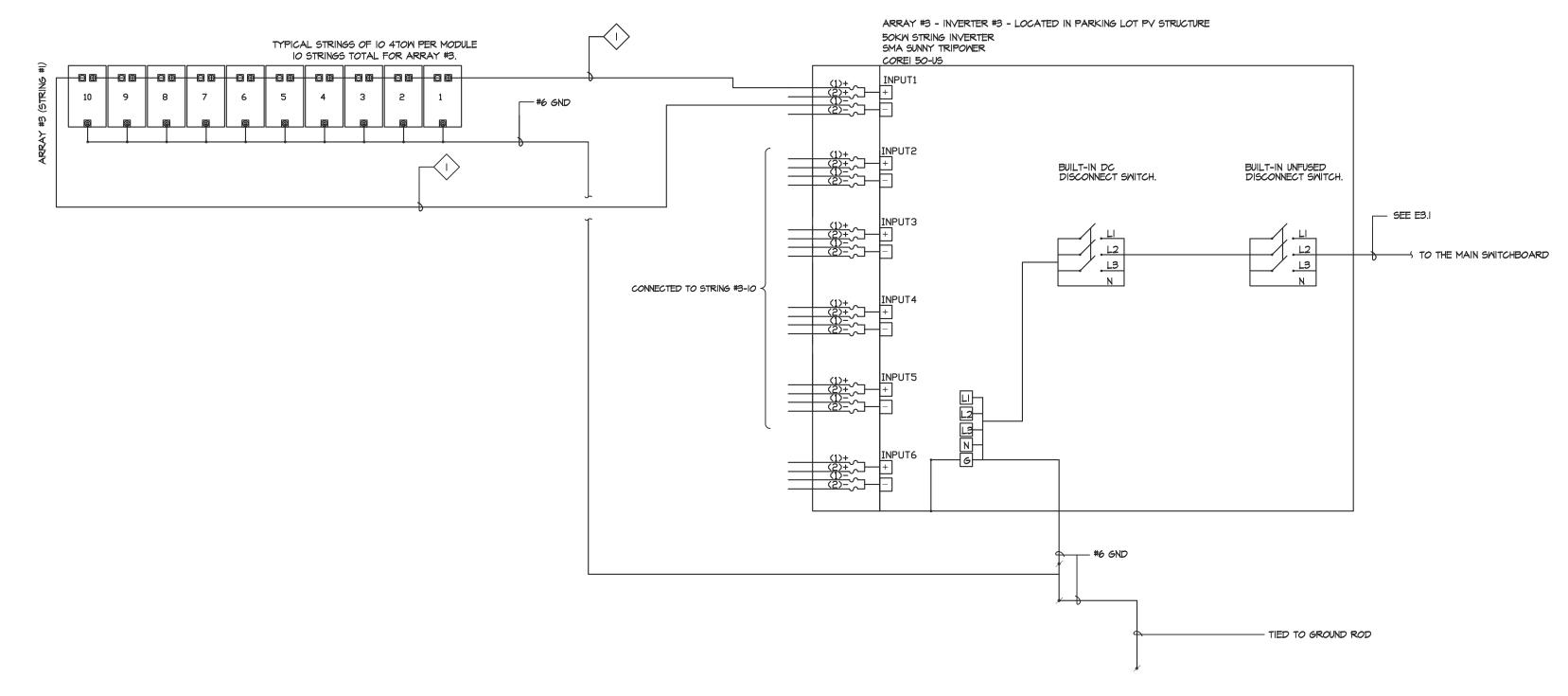
TOTAL NUMBER OF STRINGS = 12 PER ARRAY

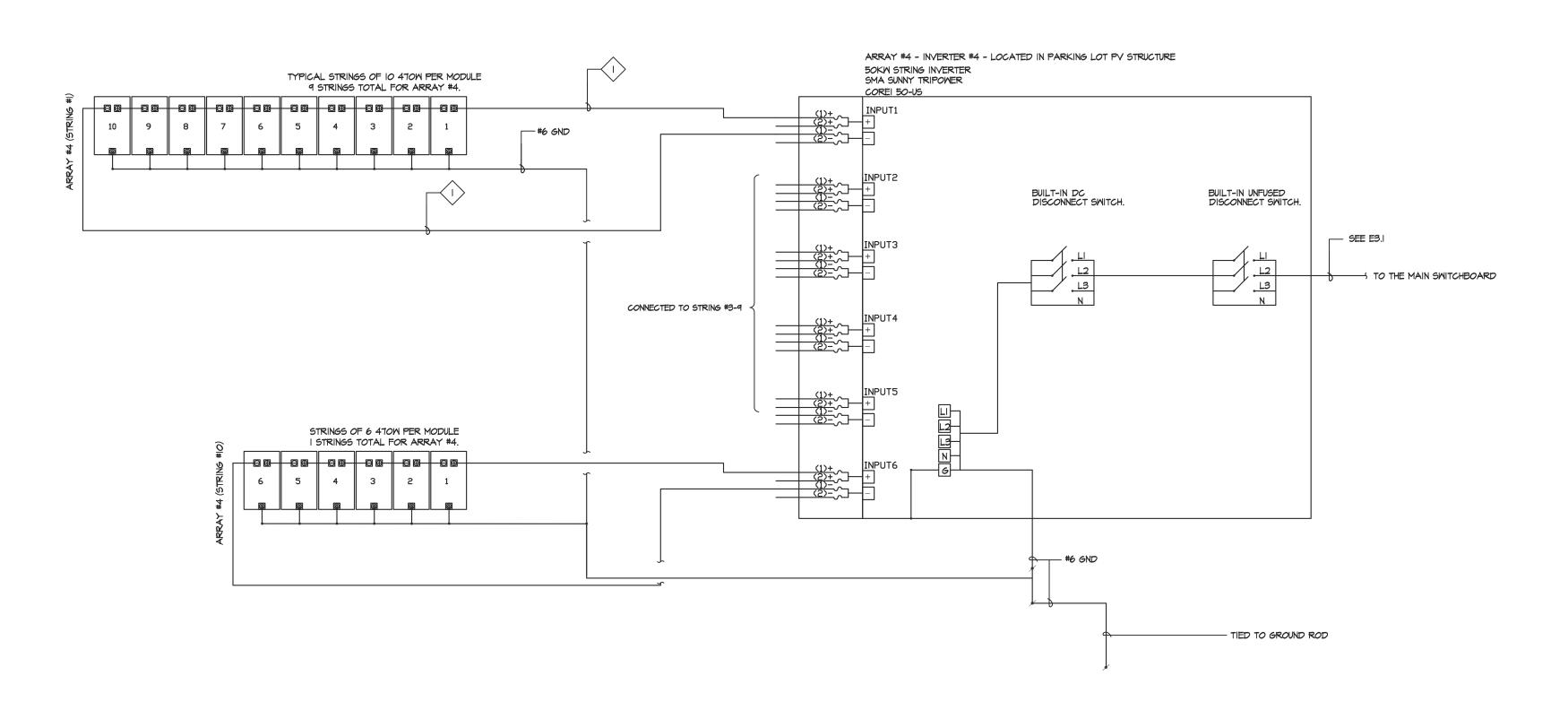
ARRAY #4
INVERTER COREI 50-US
TOTAL NUMBER OF MODULES PER ARRAY = 96
MODULES PER STRINGS = 10
TOTAL NUMBER OF STRINGS = 9 PER ARRAY
MODULES PER STRINGS = 6
TOTAL NUMBER OF STRINGS = 1 PER ARRAY

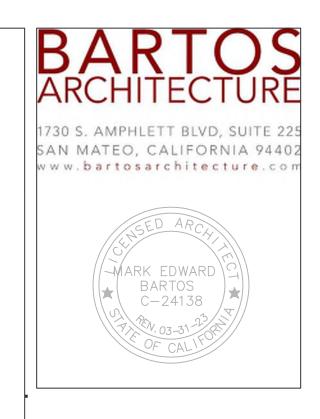
NOTE: SOLAR PANEL SHOULD BE SUNPOWER 470M X SERIES

#X21-470-COM PANEL. OR APPROVED EQUAL
PRODUCTS WILL BE REVIEWED AND APPROVED
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CALCULATIONS TO CONFIRM QUANTITY OF PANELS
PER STRING. OVERALL SYSTEM SIZE AND FOOTPRINT
SHOULD BE EQUIVALENT TO THE SUN POWER SOLAR
SYSTEM.

munimum/









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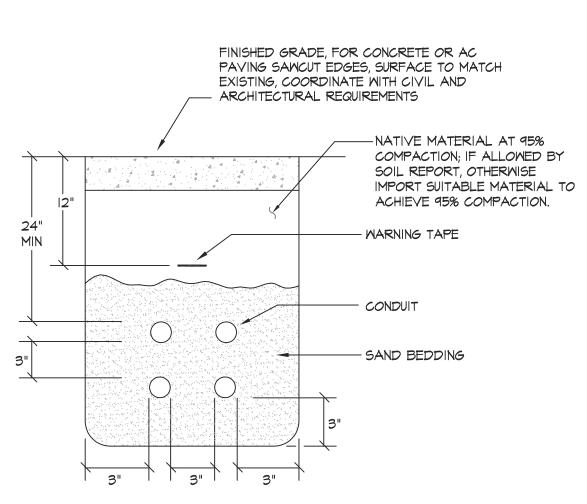
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PV RISER DIAGRAM

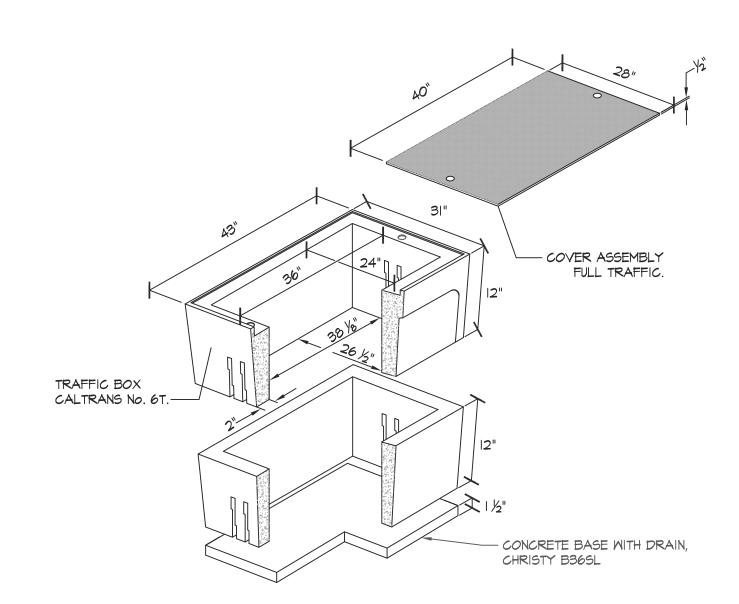
E3.3

PV RISER DIAGRAM



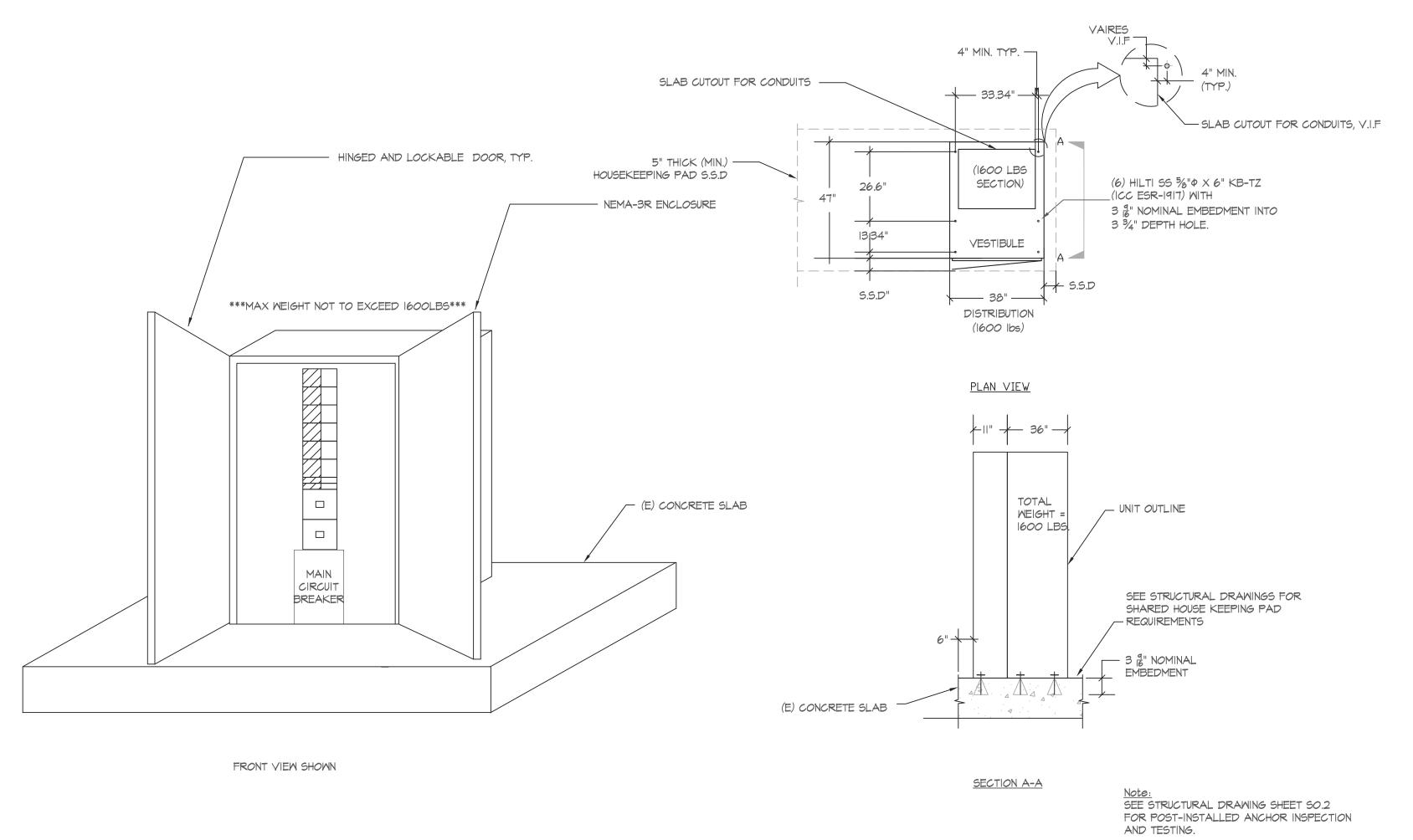
I. COORDINATE TRENCH CONDUIT LAYOUT WITH OTHER CONDUIT SYSTEMS.

TYPICAL TRENCH DETAIL NOT TO SCALE



HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.







WALL MOUNTED PANEL

COVER ASSEMBLY-FULL TRAFFIC TRAFFIC BOX-CHRISTY No. BIOIT CONCRETE BASE WITH DRAIN,

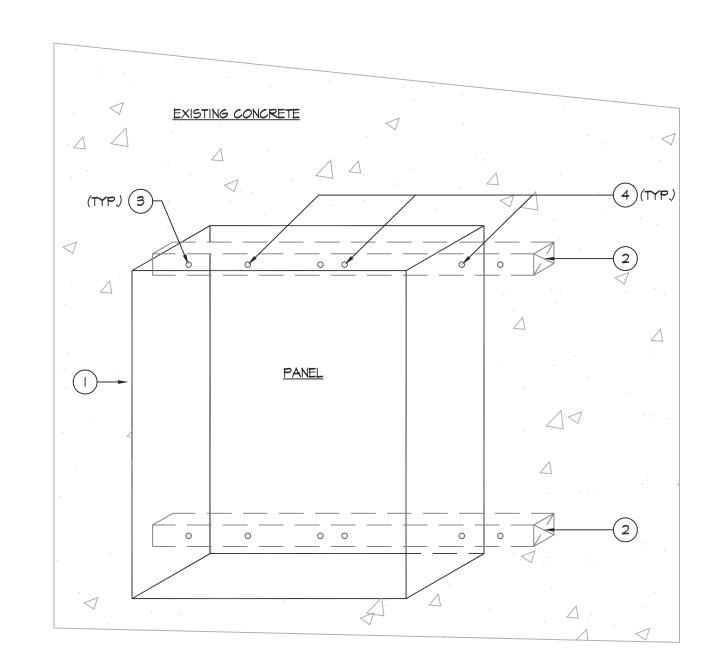
- I. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN. 2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM
- 3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.

4. PROVIDE BELL ENDS ON ALL CONDUIT.

B1017 ELECTRICAL VAULT

NOT TO SCALE

(FULL TRAFFIC COVER)

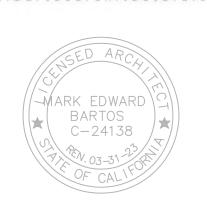


- NEMA-3R ELECTRICAL ELECTRICAL DISCONNECT MAX WEIGHT (175LBS).
- 2 UNISTRUT PIOOO MIN. 50" SPANNING OVER 3 STUDS.
- 3 PROVIDE CONCRETE ANCHORS. (I) BOLT PER WALL STUD, MINIMUM (3)
- 4 PROVIDE 3" HEX HEAD CAP SCREW (MIN. OF 3) WITH 3" CHANNEL NUT.

INSTALLATION (100A-600A)

NOT TO SCALE

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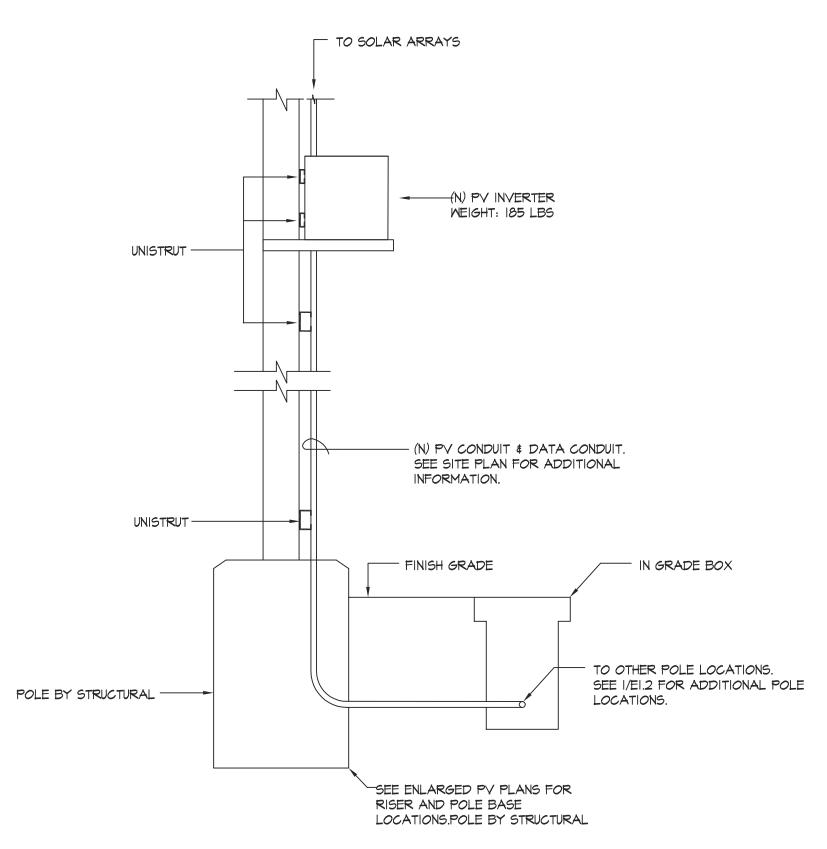
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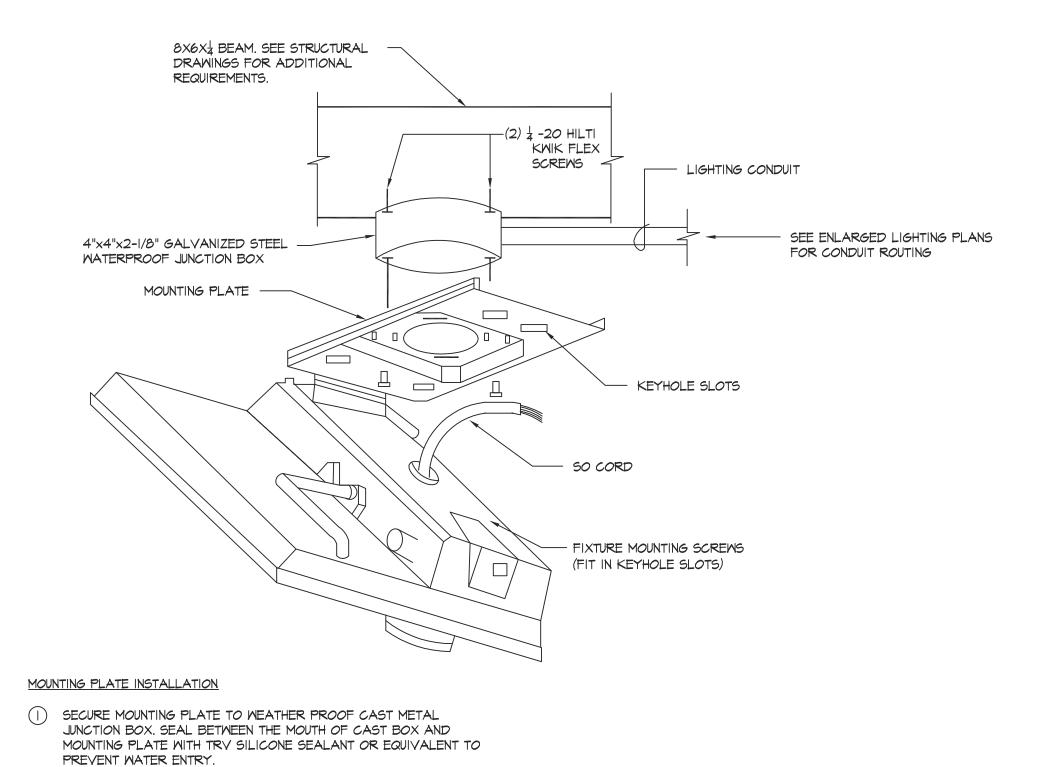
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ELECTRICAL DETAILS **E4.1**



POLE RISER DETAIL (PV)

E4.2 NOT TO SCALE

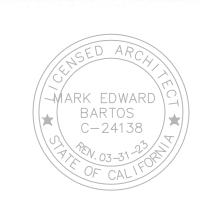


2 SOLAR STRUCTURE LIGHT MOUNTING

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ELECTRICAL DETAILS **E4.2**

Electrical Design Calculations PV System Specifications 186kW / (4) 50kW inverters 1. System Size: 2. System Components: Component Photovoltaic Modules SunPower 470W SPR-X21-470-COM SMA Sunny Tripower Core1 50-US Inverters Mounting System ProSolar Vmp= 77.6V lsc= 6.45A 3. PV Module Specs: Voc= 91.5V STC= 470W Imp= 6.06A Temp. Coefficient VOC (mV/DEG C)= -223.2mV/degC 4. Inverter Specs: CEC efficiency= 98% Max Continuous AC Output= 64A AC output Voltage= 480V Phases= 3 phase 5. Array Strings: Inverter Size = 3-50kW 4-50kW Mods per string = 10 10/6 # of Strings = 10 10 10 9/1 Total # Modules = 100 100 100 Required Conductor Ampacity (NEC 690.8.B.1): 10.08A 6. Array Wiring Data: Fuse Size (Next Size > Req. Cond. Amps.) Per Mfgr's data sheet: 15A String Home Run Conductor Chosen: #10 Number of Current Carrying Conductors in Free Air: 2 Longest String Distance: 100 feet

```
Inverter Feeder Sizing
Inverter to Main Switchboard
1. NEC Required Wire Ampacity:
                      CEC-Required OCPD >= Inverter Maximum Continuous Output Current x 1.25 Continuous Duty
                  Max. Continuous Output Current = 64A
                         CEC-Required OCPD >= 80A
           Overcurrent Protection (AC breaker) Size = 80A
                                                                Equals next higer Std. Size per CEC 240.6(A)
2. Wire Type and Size:
                         # of Parallel Conductors = 1
                                   # of Phases = 3
                                         Type = THWN-2
                                Conductor Size = 2
                            Conductor Ampacity = 115
                                                                                CEC 310.16 (75 degreeC column)
3. Working Voltage: 480V
4. Derated Ampacity of Wire:
                      Derated Amp = base ampacity x temp. correction factor x CCC derating factor
                                               50kW
                                                                                 CEC 310.16 (90 degree C column)
                                 base ampacity = 115
                                                                                 degrees C
               Average High Ambient Temperature = 86 deg F
                     temperature correction factor =
                # of Current Carrying Conductors =
                                                                                CEC 310.15(B)(2)(a))
                            CCC derating factor =
                         Total derated Amperage = 115
5. Grounding Electrode Conductor Size:
                                                 50kW
                     Ungrounded Conductor Size = 2
                     GEC =
                                                 #6 Bare
                                                                                CEC 250.66
6. Inverter Output Voltage Drop:
                                                 50kW
                     Conductor Length =
                                                    350
                     Conductor Size =
                                                     64
                     Maximum Current Draw =
                                                    7.3
                      Volts Dropped =
                                                  1.57%
                     % Voltage Drop =
```

Array Specifications Array Electrical Specifications (Per Inverter) 1. Maximum Power Point Current (at STC) Produced by Array: Max. Imp = Imp x Number of StringsImp= 6.06A # of Strings = 10 Max Imp = 60.6A2. Short Circuit Current Produced by Array: Array Isc = Isc x Number of Strings Isc = 6.45A# of Strings = 10 Array lsc = 64.5A 3. Maximum Power Point Voltage (at STC) Produced by Array: Max Vmp = Vmp x Modules per String Vmp = 77.6VModules per String = 10 Max Vmp = 776V 4. Open Circuit Voltage Produced by Array: Array Voc = Voc x Modules per String Voc = 91.5VModuls per String = 10 Array Voc = 915V 5. STC Watts Produced by Array; STC Watts = Total Number of Modules x STC watts of Module 50kW 50kW Total # Modules = 100 96 STC Watts of Modules = 470 470 CEC 250.66 STC Watts = 47000 45120



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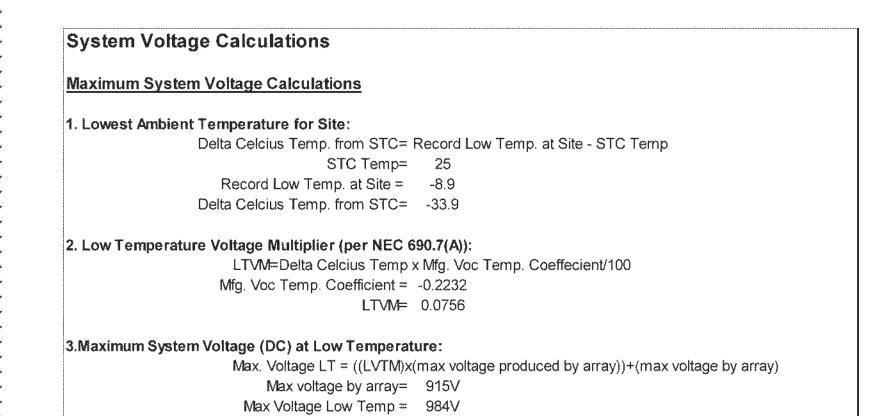
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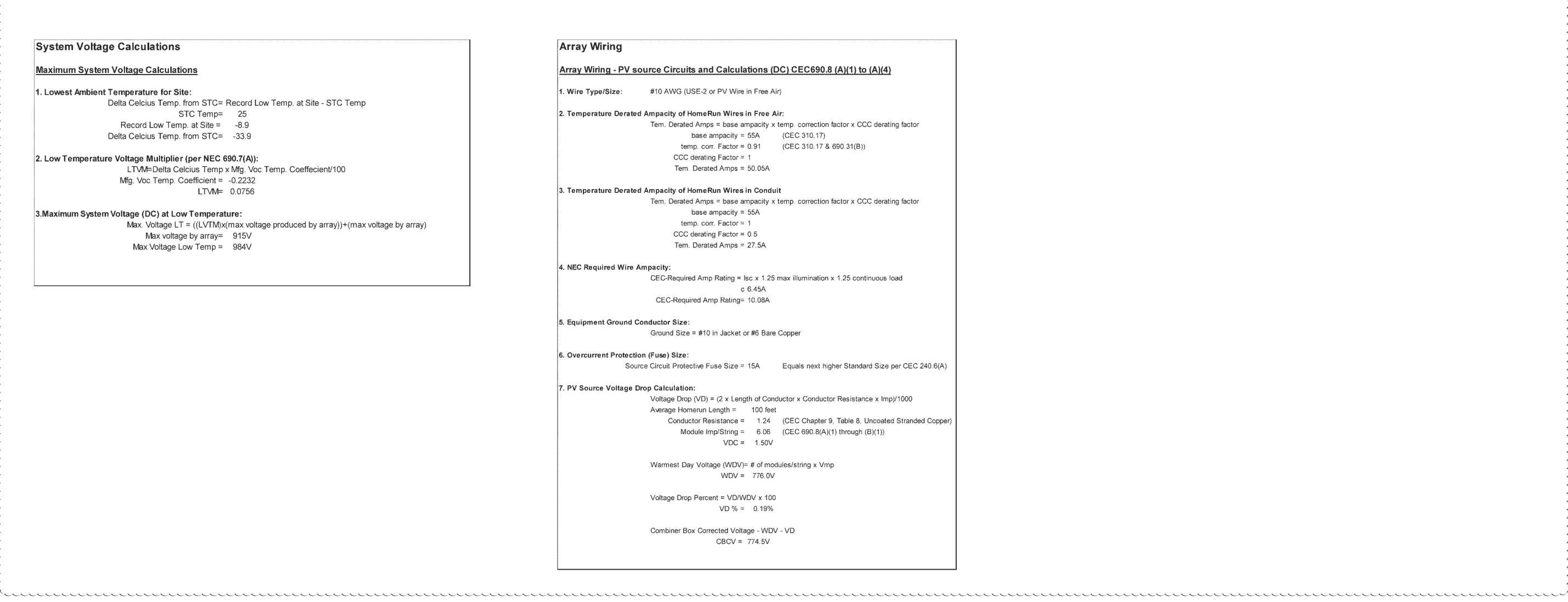
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SAN MATEO CO. BLDG. INSP. DIV.

PV CALCULATIONS

E4.3







SOLAR PANEL INSTALLATION ①

E4.4 / SCALE: NOT TO SCALE

PHOTOVOLTAIC UN FUSED AC DISCONNECT

AC DISCONNECT RATINGS: OPERATING CURRENT: 30 AMPS PER PHASE OPERATING VOLTAGE: 480 VOLTS AC, 3 PHASE **CURRENT RATING: 400 AMPS**

VOLTAGE RATING: 600 VOLTS AC



LABEL FOR SOLAR 2

SCALE: NOT TO SCALE

SMA INTERNAL PHOTOVOLTAIC DC DISCONNECT COMBINER

MAXIMUM POWER POINT CURRENT: 67.12A MAXIMUM POWER POINT VOLTAGE: 425.6VDC MAXIMUM PV SYSTEM VOLTAGE: 525.0VDC SHORT CIRCUIT CURRENT: 70.88A



LABEL FOR SOLAR 3

E4.4 / SCALE: NOT TO SCALE

WARNING

ELECTRIC SHOCK HAZARD. DO NOT TOUCH TERMINAL. TERMINALS ON BOTH THE LINE AND LOADS SIDES MAY BE ENERGIZED IN THE **OPEN POSITION.**



LABEL FOR SOLAR 4

SCALE: NOT TO SCALE E4.4

> **SMA INTERNAL PHOTOVOLTAIC** DC DISCONNECT COMBINER

MAXIMUM POWER POINT CURRENT: 58.73A MAXIMUM POWER POINT VOLTAGE: 425.6VDC MAXIMUM PV SYSTEM VOLTAGE: 525.0VDC SHORT CIRCUIT CURRENT: 60.02A



LABEL FOR SOLAR 5

SCALE: NOT TO SCALE

SMA TRIPOWER PHOTOVOLTAIC INVERTER

GRID TIED PHOTOVOLTAIC POWER SOURCE WITH INTERNAL DC DISCONNECT/COMBINER

MAXIMUM INVERTER INPUT: OPERATING CURRENT 66ADC OPERATING VOLTAGE 150-1000 VDC OPERATING DC POWER 24.5 KW STC MAXIMUM SYSTEM VOLTAGE 1000 VDC

MAXIMUM INVERTER OUTPUT: AC OPERATING VOLTAGE 480 VAC 39 MAX. AC OUTPUT CURRENT PER PHASE 18A/36A -



LABEL FOR SOLAR 6

SCALE: NOT TO SCALE

WARNING

ELECTRIC SHOCK HAZARD. THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED.



LABEL FOR SOLAR (7)

E4.4 / SCALE: NOT TO SCALE

WARNING

ELECTRIC SHOCK HAZARD. IF A GROUND FAULT IS INDICATED, NORMALLY GROUNDED CONDUCTORS MAY BE **UNGROUNDED AND ENERGIZED**



LABEL FOR SOLAR 3

SCALE: NOT TO SCALE

WARNING

THIS PANEL HAS A SECONDARY POWER **SOURCE FROM (2) PHOTOVOLTAIC SYSTEMS** TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO SERVICING THE PANEL MAXIMUM AC OUTPUT CURRENT: 29 AMPS/PHASE



LABEL FOR SOLAR (9)

OPERATING AC VOLTAGE: 480 VOLTS

E4.4 / SCALE: NOT TO SCALE

GENERAL NOTES:

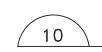
- I. LABELS AND MARKINGS SHALL BE APPLIED TO THE APPROPRIATE COMPONENTS
- 2. SOLAR MODULES ARE SUPPLIED FROM THE MANUFACTURER WITH MARKINGS
- 3. THE INVERTER IS SUPPLIED FROM THE MANUFACTURER WITH THE APPROPRIATE
- 4. ALL LABELS WILL BE ETCHED WITH WHITE GRAPHICS ONTO & RED PLASTIC PLACARDS WITH A MINIMUM TEXT HEIGHT OF &". THE LABEL WILL BE EFFECTIVELY BONDED TO THE APPROPRIATE LOCATIONS AND COMPONENT ENCLOSURES IN CLEARLY VISIBLY PLACES WITH REFLECTIVE, WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT. ALL CAPITAL LETTERS SHOULD BE USED IN ARIAL OR SIMILAR NON-BOLD FONT.

SHEET NOTES:

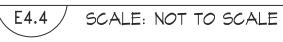
- PROVIDED THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC DISCONNECTING MEANS. THIS PLACE SHALL BE APPLIED TO THE MAIN SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC DISCONNECTING
- (2) LABEL FOR UTILITY AC DISCONNECT.
- (3) PHOTOVOLTAIC DC COMBINER. OPERATING SPECIFICATIONS LABEL APPLIED TO
- (4) UTILITY AC DISCONNECT WARNING LABEL WITH SYSTEM SPECIFICATIONS, APPLIED TO ALL AC DISCONNECTING MEANS.
- (5) PHOTOVOLTAIC DC COMBINER. OPERATING SPECIFICATIONS LABEL APPLIED TO
- (6) LABEL REQUIRED AT EACH INVERTER TO SPECIFY INDIVIDUAL INVERTER OPERATING PARAMETERS.
- 1 LABEL REQUIRED AT EACH JUNCTION BOX, COMBINER BOX, DISCONNECT, AND DEVICE WHERE ENERGIZED, UNDERGROUND CIRCUITS MAY BE EXPOSED DURING
- 8 LABEL REQUIRED FOR MAIN SERVICE PANEL TO INFORM PERSONNEL THAT MAIN IS ALSO SUPPLIED BY A PHOTOVOLTAIC POWER SOURCE.
- (9) LABEL FOR SYSTEM OWNER'S KWH GENERATION METER BEING FED BY A PHOTOVOLTAIC SYSTEM.
- LABEL FOR INVERTER SHALL BE DEPENDENT ON SIZE OF INVERTER. 30KM INVERTER SHALL HAVE A MAXIMUM AC OUTPUT OF 36A PER PHASE, WHILE I5KM INVERTER SHALL HAVE A MAXIMUM AC OUTPUT OF 18A PER PHASE.

- IN ACCORDANCE WITH THE NEC.
- PRE-APPLIED TO MEET THE REQUIREMENTS OF THE NEC.
- LABELS AND MARKINGS TO MEET THE REQUIREMENTS OF NEC.

PHOTOVOLTAIC GENERATION METER



10 LABEL FOR SOLAR (9)



CAUTION: SOLAR ELECTRIC SYSTEM CONNECTED



E4.4 / SCALE: NOT TO SCALE

SAN MATEO CO. BLDG. INSP. DIV.



PV LABELING

1730 S. AMPHLETT BLVD, SUITE 225 SAN MATEO, CALIFORNIA 94402 www.bartosarchitecture.com

American Consulting Engineers

1590 The Alameda, Suite 200 San Jose, CA 95126 JOB # EK20169.00

San Mateo County

400 County Center Redwood City, CA

Correctional Facility

Redwood City, CA 94063

Solar

Shade

Structure

RECEIVED

Jun 21 2023

San Mateo County

Building Inspectior

JOB COPY

TO REMAIN ON

SITE AT ALL TIMES

REVIEWED FOR CODE COMPLIANCE

This review does not authorize violation

of State or County building laws.

Jun 21 2023

Stephenchan

Sheriff's Office

Maple Street

1300 Maple St

REVISION

E4.4