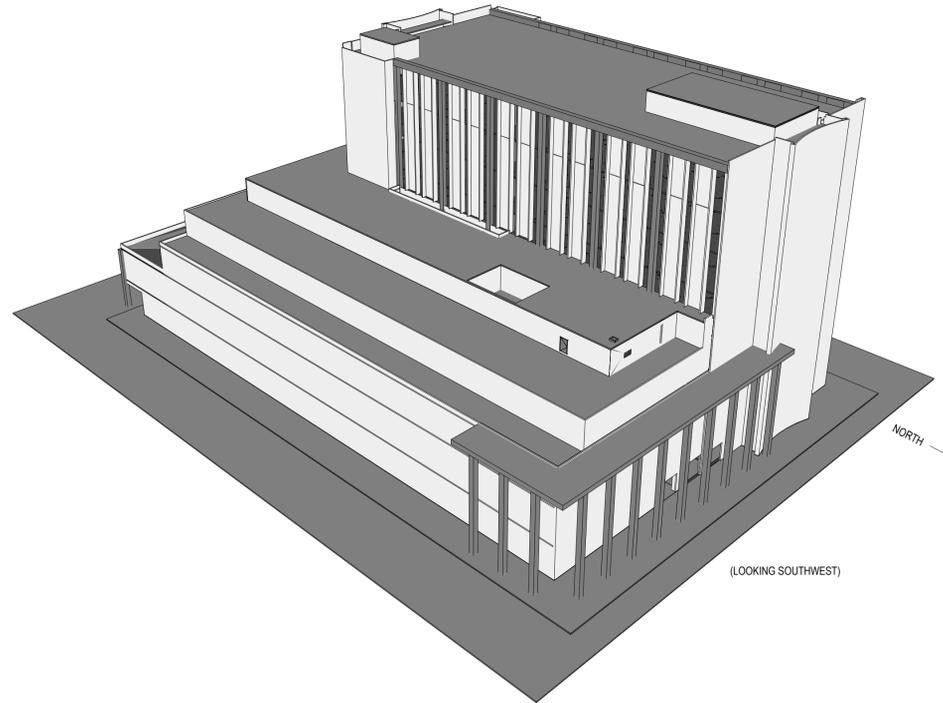


# SAN MATEO COUNTY HALL OF JUSTICE ELEVATOR #3 AND #7 MODERNIZATION



**HALL OF JUSTICE**  
Elevator #3 and #7 Modernization  
400 COUNTY CENTER  
REDWOOD CITY, CA 94063

CLIENT  
County of San Mateo

PROJECT MANAGER

Department of Public Works  
555 COUNTY CENTER  
REDWOOD CITY, CA 94063



Elevator and Escalator Consulting  
a division of Gannett Fleming, Inc.  
3838 N. Central Avenue, Suite 1900  
Phoenix, AZ 85012-1957

**ARCHITEKTON**



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REVISIONS

No.	Description	Date
1	PLAN CHECK	3/4/22

SCALE  
AS NOTED

PROJECT NO.

ISSUE DATE  
100% SET 10/14/21, 4/4/22

SHEET TITLE

COVER SHEET

SHEET NO.

**G000**

## PROJECT TEAM

**OWNER: SAN MATEO COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
555 COUNTY CENTER, 5TH FLOOR  
REDWOOD CITY, CALIFORNIA 94063

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ABAGBY@LSWPHX.COM

## DEFERRED SUBMITTALS

- ELEVATOR EQUIPMENT SHOP DRAWINGS

## SHEET INDEX

Sheet Number	Sheet Name	Sheet Number	Sheet Name
<b>GENERAL</b>			
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<b>ARCHITECTURAL</b>			
A100	BASEMENT PLAN	E001	ELECTRICAL SYMBOLS
A101	LEVEL 1 FLOOR PLAN	E101	ELECTRICAL DEMOLITION PLANS - ELEVATOR #3
A191	ROOF PLAN	E102	ELECTRICAL DEMOLITION PLANS - ELEVATOR #7
A301	BUILDING SECTION	E201	ELECTRICAL OVERALL PLAN - 1ST FLOOR
A310	ELEVATOR #3 SHAFT SECTIONS	E202	ELECTRICAL PLANS BASEMENT AND FIRST FLOOR
A311	ELEVATOR #7 SHAFT SECTIONS	E203	ELECTRICAL PLANS - 3RD AND 5TH FLOOR
A401	ENLARGED PLANS AND DETAILS, ELEV #3	E204	ELECTRICAL PLAN - PENTHOUSE - ELEVATOR #3
A402	ENLARGED PLANS - ELEV #7	E801	ELECTRICAL ONE-LINE DIAGRAMS
A403	ENLARGED PLANS	E802	ELECTRICAL ONE-LINE DIAGRAM
<b>STRUCTURAL</b>			
S001	GENERAL STRUCTURAL NOTES 1	E901	DETAILS, CALCULATIONS AND PANEL SCHEDULES
S002	GENERAL STRUCTURAL NOTES 2	<b>EQUIPMENT</b>	
S100	OVERALL ROOF PLAN	VT001	ABBREVIATIONS AND GENERAL NOTES
S200	FULL HEIGHT SECTIONS	VT002	ELEVATOR 3 TECHNICAL DATA
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<b>MECHANICAL</b>			
M001	MECHANICAL GENERAL SHEET	VT004	ELEVATOR 3 EXISTING PLANS
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M251	PARTIAL MECHANICAL PLAN - 5TH FLOOR	VT006	ELEVATOR 3 EXISTING SECTION THRU HOISTWAY
M280	OVERALL MECHANICAL PLAN - 8TH FLOOR	VT007	ELEVATOR 7 EXISTING SECTION THRU HOISTWAY
M290	OVERALL MECHANICAL PLAN - PENTHOUSE	VT008	ELEVATOR 3 NEW PLANS
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M601	MECHANICAL DETAILS	VT010	ELEVATOR 3 NEW SECTION THRU HOISTWAY
M701	MECHANICAL SCHEDULES	VT011	ELEVATOR 7 NEW SECTION THRU HOISTWAY

## SPECIAL INSPECTIONS

- EPOXY BOLTS

## PROJECT INFORMATION

**LOCATION**  
400 COUNTY CENTER  
REDWOOD CITY, CA 94063

### DESCRIPTION

**PROJECT DESCRIPTION:**

RENOVATION AND MODERNIZATION OF TWO TRACTION ELEVATORS, WITH RELATED ELECTRICAL AND MECHANICAL SYSTEM UPGRADES

**ZONING:**

NO CHANGES IN BUILDING USE, AREAS OR PARKING REQUIREMENTS

**BUILDING CONSTRUCTION:**

NON-COMBUSTIBLE STRUCTURE, FLOORS AND WALLS, TYPE IIA

**NUMBER OF STORIES:**

10, INCLUDING BASEMENT AND MECHANICAL PENTHOUSE

**FIRE PROTECTION:**

BUILDING IS PARTIALLY SPRINKLERED. (NO CHANGE IN BUILDING AREA, NO CHANGE IN EXTENT OF FIRE SPRINKLERS OR FIRE ALARM SYSTEM)  
Note: Design team has been told the newer portion of the building (the 11 story portion which is served by elevator # 3) is sprinklered. In the site review visit of 3/10 and 3/11/21 no sprinkler heads were observed in the hallways or elevator machine rooms. This project does not include any modification of the fire protection systems or any new spaces or added floor area. The sentence provided above is the most complete description we can provide under our scope of work. Our scope of work does not include a code review or evaluation of the existing condition.

**OCCUPANCY:**

OFFICES AND COURTROOM (ASSEMBLY) SPACES

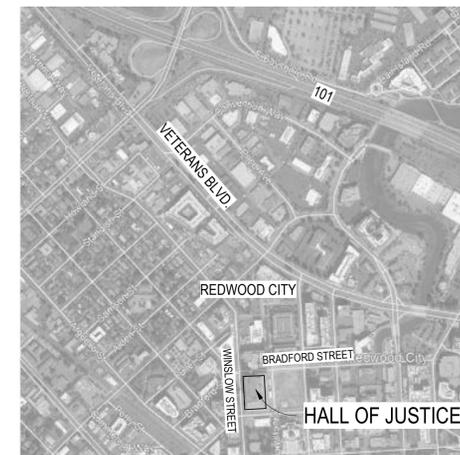
**EXITING PROVIDED:**

NO CHANGES IN OCCUPANCY TYPE OR OCCUPANT LOAD, NO CHANGE IN EXIT WIDTHS OR NUMBER

**PLUMBING FIXTURES PROVIDED:**

NO CHANGES

## VICINITY MAP



REVIEWED FOR CODE COMPLIANCE  
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of State or County building laws.

Jun 03 2022

SAN MATEO CO. BLDG. INSP. DIV.

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**ABBREVIATIONS LEGEND**

AC	AIR CONDITIONING (ED)	DIM	DIMENSION	ID	INSIDE DIAMETER	PREFAB	PREFABRICATED	UGND	UNDERGROUND
AC UNIT	AIR CONDITIONING UNIT	DIR	DIRECTION	IN	INCHES	PREFIN	PREFINISHED	UH	UNIT HEATER
AB	ANCHOR BOLT	DISP	DISPENSER	INCL	INCLUDE	PRELIM	PRELIMINARY	UL	UNDERWRITERS LABORATORIES
ABBVR	ABBREVIATION	DIST	DISTANCE	INCD	INCANDESCENT	PRKG	PARKING	UNFIN	UNFINISHED
ACC	ACCESSIBLE	DIV	DIVIDE, DIVISION	INT	INTERIOR	PROJ	PROJECT	UNO	UNLESS NOTED OTHERWISE
ACCU	AIR COOLED CONDENSING UNIT	DL	DEAD LOAD	INT	INTERIOR	PROP	PROPERTY	UTL	UTILITY
ACI	AMERICAN CONCRETE INSTITUTE	DMPR	DAMPER	INT	INTERIOR	PSF	POUNDS PER SQUARE FOOT	UV	UNIT VENTILATOR
ACOUS INSUL	ACOUSTICAL INSULATION	DN	DOWN	INT	INTERIOR	PT	POST TENSIONED	V	VOLT
ACOUS PNL	ACOUSTICAL PANEL	DO	DOTTO	INT	INTERIOR	PTD	PAPER TOWER DISPENSER	VAR	VARIES, VARIATION
ACST	ACOUSTIC	DOC	DOCUMENT	INT	INTERIOR	PTN	PARTITION	VB	VINYL BASE
ACT	ACOUSTICAL CEILING TILE	DOZ	DOZEN	JAN	JANITOR	PVC	POLYVINYL CHLORIDE (PLASTIC)	VCT	VINYL COMPOSITE TILE
ADA	AMERICANS WITH DISABILITIES ACT	DR	DOOR	JAN CLO	JANITOR CLOSET	PWR	POWER	VENT	VENTILATION
ADDL	ADDITIONAL	DS	DOWNSPOUT	JNT	JOINT	QT	QUARRY TILE	VEST	VESTIBULE
ADH	ADHESIVE	DT	DRAIN TILE	JST	JOIST	QTY	QUANTITY	VIF	VERIFY IN FIELD
ADJ	ADJUSTABLE, ADJACENT	DWG	DRAWING	KD	KNOCK DOWN	R	RISER, RADIUS, HEAT RESISTANCE	VOC	VOLATILE ORGANIC COMPOUND
AE	ARCHITECT/ENGINEER	E	EAST	KIP	1000 POUNDS	RA	RETURN AIR	VOL	VOLUME
AFF	ABOVE FINISHED FLOOR	EA	EACH	KO	KNOCK OUT	RAD	RADIATOR	VR	VAPOR RETARDER
AGGR	AGGREGATE	EC	ELECTRICAL CONTRACTOR	KPL	KICK PLATE	REC	RECESSED	VUH	VERTICAL UNIT HEATER
AHJ	AUTHORITY HAVING JURISDICTION	EF	EACH FACE	L	LITER, ANGLE	RC	ROOFING CONTRACTOR	VWC	VERTICAL WALL COVERING
AHU	AIR HANDLING UNIT	EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	LAB	LABORATORY	RCP	REFLECTED CEILING PLAN	W	WATT, WEST
ALT	ALTERNATE	EJ	EXPANSION JOINT	LAM	LAMINATE(D)	RD	ROOF DRAIN	W/	WITH
ALUM	ALUMINUM	EL	ELEVATION	LAV	LAVATORY	REC	RECESSED	W/O	WITHOUT
ANOD	ANODIZED	ELEC	ELECTRICAL	LBL	LABEL	REF	REFRIGERATOR	WW	WALL TO WALL
APC	ACOUSTICAL PANEL CEILING	ELEM	ELEMENTARY	LBS	POUND	REG	REGISTER, REGULATION	WB	WOOD BASE
ARCH	ARCHITECTURAL	ELEV	ELEVATOR	LD	LOAD	REIN	REINFORCE	WC	WALL COVERING, WATER CLOSET
		ENAM	ENAMEL	LF	LINEAR FEET	REQD	REQUIRED	WD	WOOD
		ENCL	ENCLOSURE	LH	LATENT HEAT, LEFT HAND	RESIL	RESILIENT	WDW	WINDOW
BD	BOARD	ENGR	ENGINEER	LIB	LIBRARY	REV	REVISION	WF	WIDE FLANGE
BLDG	BUILDING	ENVR	ENVIRONMENT	LIN	LINEAR	RFG	ROOFING	WH	WATER HEATER, WALL HUNG
BLKG	BLOCKING	EP	ELECTRIC PANEL	LKR	LOCKER	RFI	REQUEST FOR INFORMATION	WI	WROUGHT IRON
BM	BENCHMARK, BEAM	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	LKR RM	LOCKER ROOM	RFP	REQUEST FOR PROPOSAL	WM	WIRE MESH
BOT	BOTTOM	EPS	EXPANDED POLYSTYRENE BOARD	LL	LIVE LOAD	RH	RIGHT HAND, ROOF HATCH	WP	WATER PROOFING, WEATHERPROOF
BRG	BEARING	EQ	EQUAL	LLH	LONG LEG HORIZONTAL	RM	ROOM	WR	WATER REPELLENT, WEATHER RESISTANT
BSMT	BASEMENT	EQIP	EQUIPMENT	LLV	LONG LEG VERTICAL	RO	ROUGH OPENING	WSCT	WAINSCOT
BTWN	BETWEEN	EQUIV	EQUIVALENT	LTG	LIGHTING	ROW	RIGHT OF WAY	WT	WEIGHT
BUR	BUILT-UP ROOFING	ETR	EXISTING TO REMAIN	MACH	MATCHLINE	RTF	RUBBER TILE FLOOR	WWF	WELDED WIRE FABRIC
		EW	EACH WAY	MACH RM	MACHINE ROOM	RTU	ROOF TOP UNIT	WWW	WELDED WIRE MESH
CAB	CABINET	EWC	ELECTRIC WATER COOLER	MAHOG	MAHOGANY	RV	ROOF VENT	X	BY
CB	CARRIAGE BOLT, CATCH BASIN	EWB	ELECTRIC WATER HEATER	MAINT	MAINTENANCE	RW	RESCUE WINDOW	Y	YO
CCTV	CLOSED-CIRCUIT TELEVISION	EXC	EXCAVATE	MATL	MATERIAL	RWB	RUBBER WALL BASE		
CD	CONSTRUCTION DOCUMENTS, CONTRACT DOCUMENTS	EXH	EXHAUST	MAX	MAXIMUM				
CEM	CEMENT	EXIST	EXISTING	MB or MKR BD	MARKERBOARD				
CERT	CERTIFY, CERTIFICATE, CERTIFICATION	EXP	EXPAND, EXPANSION	MC	MECHANICAL CONTRACTOR				
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	EXT	EXTERIOR	MD	MEDIUM DENSITY FIBERBOARD				
CF/CI	CONTRACTOR FURNISHED/ OWNER INSTALLED	FA	FACE-TO-FACE	MDO	MEDIUM DENSITY OVERLAY				
CG	CORNER GUARD	FAAP	FIRE ALARM ANNUNCIATOR PANEL	ME	MATCH EXISTING				
CHBD	CHALK BOARD	FACP	FIRE ALARM CONTROL PANEL	MECH	MECHANICAL				
CHEM	CHEMICAL	FAN	FAN COIL UNIT	MECH RM	MECHANICAL ROOM				
CI	CAST IRON	FDU	FLOOR DRAIN	MFR	MANUFACTURER				
CIP	CAST-IN-PLACE	FE	FIRE EXTINGUISHER	MN	MINIMUM				
CJ	CONTROL JOINT, CONSTRUCTION JOINT	FEC	FIRE EXTINGUISHER CABINET	MISC	MISCELLANEOUS				
CL	CENTER LINE	FIN	FINISH	MM	MILLIMETER				
CLG	CEILING	FIXT	FIXTURE	MO	MASONRY OPENING				
CLO	CLOSET	MOD BIT	MODIFIED BITUMEN	MOD BIT	MODIFIED BITUMEN				
CLR	CLEAR	FLOUR	FLOURESCENT	MTD	MOUNTED				
CLRM	CLASSROOM	FLR	FLOOR	MTL	METAL MATERIAL				
CMU	CONCRETE MASONRY UNIT	FNDN	FOUNDATION	MULL	MULLION				
CNR	CORNER	FO	FINISHED OPENING	N	NORTH				
CNTR	COUNTER	FRJS	FIRE RESISTIVE JOINT SYSTEM	NA	NOT APPLICABLE				
COL	COLUMN	FRP	FIBERGLASS REINFORCED PLASTIC	NIC	NOT IN CONTRACT				
CONC	CONCRETE	FRTW	FIRE RETARDANT TREATED WOOD	NO or #	NUMBER				
CONF	CONFERENCE	FT	FOOT, FEET	NOM	NOMINAL				
CONN	CONNECT(ION)	FTG	FOOTING	NORM	NORMAL				
CONSTR	CONSTRUCTION	FURN	FURNITURE	NTS	NOT TO SCALE				
CONT	CONTINUOUS	FW	FIRE WALL						
CONTR	CONTRACT(OR)	FWC	FABRIC WALL COVERING						
COORD	COORDINATE, COORDINATION			O/A	OVERALL				
CORR	CORRIDOR	GA	GAGE	O/O	OUT TO OUT				
CPT	CARPET	GAL	GALLON	OC	ON CENTER				
CSK	COUNTERSINK	GALV	GALVANIZED	OD	OUTSIDE DIAMETER				
CSWK	CASEWORK	GALV STL	GALVANIZED STEEL	OF/ OI	OWNER FURNISHED/ OWNER INSTALLED				
CT	CERAMIC TILE	GB	GRAB BAR	OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED				
CTR	CENTER	GC	GENERAL CONTRACTOR	OFF	OFFICE				
CTRL	CONTROL	GEN	GENERAL, GENERATOR	OH	OVERHANG				
CJ	CUBIC	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	OH DR	OVERHEAD DOOR				
CUH	CABINET UNIT HEATER	GFRG	GLASS FIBER REINFORCED CONCRETE	OPH	OPPOSITE HAND				
CUST	CUSTODIAL	GL	GLASS, GROUND LEVEL	OPNG	OPENING				
CW	COLD WATER, CASEMENT WINDOW	GL BLK	GLASS BLOCK	OPP	OPPOSITE				
		GLU LAM	GLUED LAMINATED BEAM	OPT	OPTIONAL, OPTIMUM				
		GLZ	GLAZING	PA	PUBLIC ADDRESS				
CONT	CONTINUOUS	GWT	GLAZED WALL TILE	PAR	PARALLEL				
COORD	COORDINATE, COORDINATION	GYP	GYPSON	PART	PARTIAL				
CORR	CORRIDOR	GYP BD	GYPSON BOARD	PAT	PATTERN				
CPT	CARPET	GYP PLAS	GYPSON PLASTER	PC	PLUMBING CONTRACTOR				
CSK	COUNTERSINK			PERF	PERFORATED				
CSWK	CASEWORK	HB	HOSE BIBB	PERIM	PERIMETER				
CT	CERAMIC TILE	HC	HANDICAP, HOLLOW CORE	PL	PLATE, PROPERTY LINE				
CTR	CENTER	HCP	HANDICAPPED	PL GL	PLATE GLASS				
CTRL	CONTROL	HD	HEAVY DUTY	PLAM	PLASTIC LAMINATE				
CJ	CUBIC	HDW	HARDWARE	PLAS	PLASTER, PLASTIC				
CUH	CABINET UNIT HEATER	HDWD	HARDWOOD	PLBG	PLUMBING				
CUST	CUSTODIAL	HM	HOLLOW METAL	PLYWD	PLYWOOD				
CW	COLD WATER, CASEMENT WINDOW	HO	HOLD OPEN	PNL	PANEL				
D	DEEP, DEPTH	HORIZ	HORIZON	POL	POLISHED				
DBL	DOUBLE	HR	HOUR	POLY	POLYETHYLENE (PLASTIC)				
DEG	DEGREE	HSS	HOLLOW STRUCTURAL SECTION	PORC	PORCELAIN				
DEMO	DEMOLITION	HT	HEIGHT	PORT	PORTABLE				
DEPT	DEPARTMENT	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	POS	POSITIVE				
DET	DETAIL	HW	HOT WATER	PR	PAIR				
DF	DRINKING FOUNTAIN	HYD	HYDRANT	PRCST	PRECAST				
DIA or Ø	DIAMETER								
DIFF	DIFFERENCE								

**GRAPHIC SYMBOLS LEGEND**

AREA TAG	AREA NAME 1,500 SF	LEVEL HEAD	NAME ELEVATION
BUILDING SECTION		LIGHT FIXTURE TAG	
CASEWORK TAG		MATCHLINE TAG	MATCH LINE 01 / AE-101-UUU TYPE
CEILING TAG		MATERIAL TAG	
CENTERLINE		NORTH ARROW - TRUE NORTH AND PROJECT NORTH	
CURTAIN WALL / STOREFRONT TAG		PLUMBING FITURE TAG	
DETAIL CALLOUT HEAD AND BUBBLE		PROPERTY LINE RADIUS TAG	R = RADIUS L = DISTANCE
DETAIL SECTION		PROPERTY LINE TAG	N/S 90.00° E/W DISTANCE
DOOR TAG	101A	PROPERTY TAG	<b>NAME</b> 3.52 acres
EGRESS AREA TAG		RAILING / GUARDRAIL TAG	
EGRESS DOOR TAG	117 32.4'x23.4'	REVISION TAG	
EGRESS STAIR TAG	120 48'1'36.0"	ROOF TAG	
EXTERIOR ELEVATION		ROOM TAG - WITH AREA AND WITH NUMBER	ROOM NAME 1,000 SF ROOM NAME 101
FLOOR TAG		SPOT ELEVATION	
FURNITURE TAG		STAIR TAG	
GRAPHIC SCALE		WALL SECTION	
GRIDLINE AND GRID HEAD		WALL TAG	
INTERIOR ELEVATION_GROUPED		WELD SYMBOL	
INTERIOR ELEVATION_INDIVIDUAL		WINDOW TAG	
KEYNOTE			



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Department of Public Works  
555 COUNTY CENTER  
REDWOOD CITY, CA 94063



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HATCHES, SYMBOLS, AND ABBREVIATIONS  
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**G001**

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VERTICAL TRANSPORTATION EXCELLENCE  
 Elevator and Escalator Consulting  
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 3838 N. Central Avenue, Suite 1900  
 Phoenix, AZ 85012-1957

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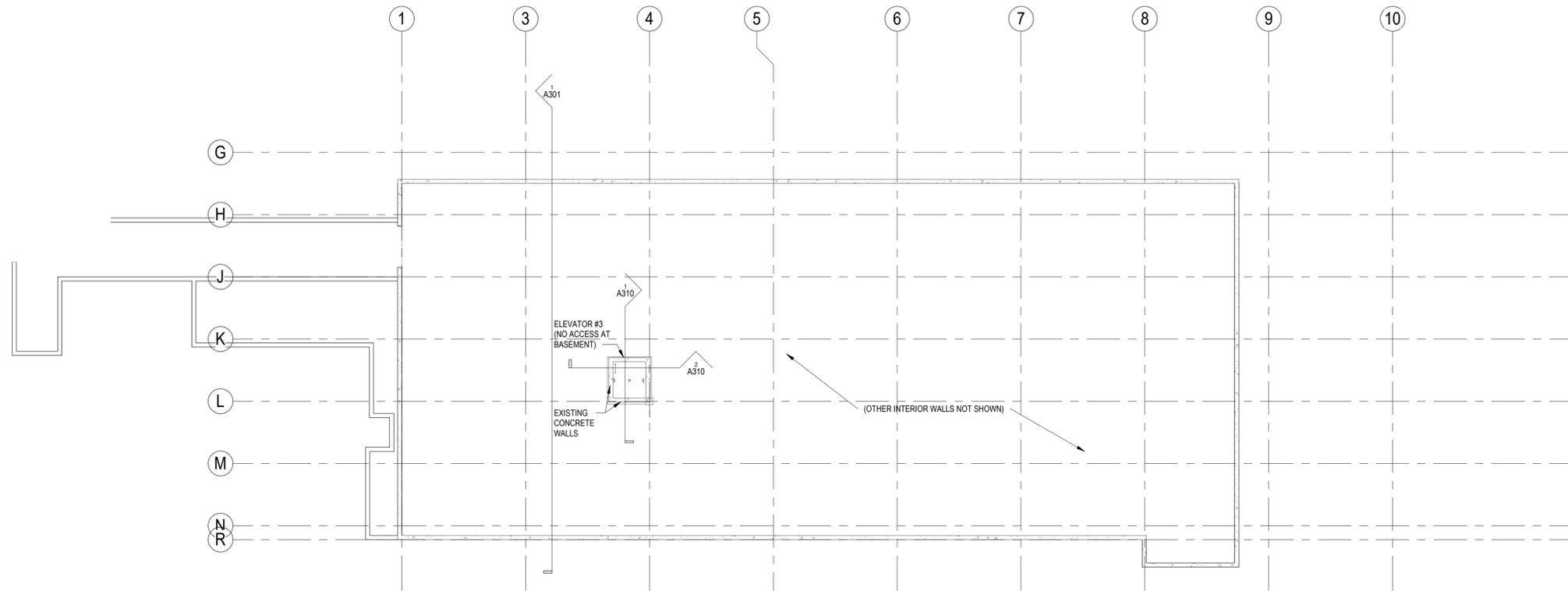
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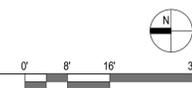
BASEMENT PLAN

SHEET NO.

**A100**



**1 BASEMENT (W)**  
 1/16" = 1'-0"



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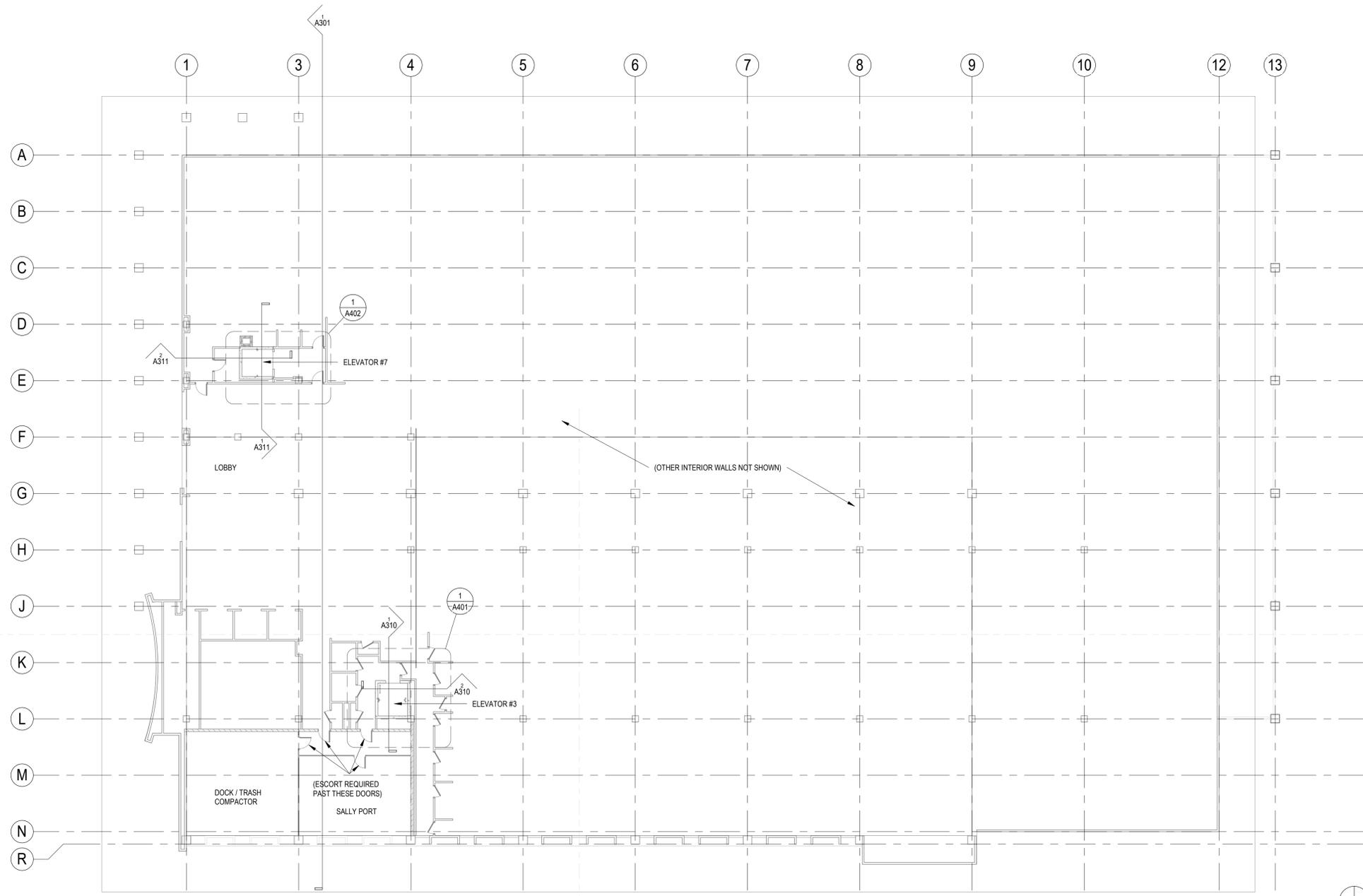
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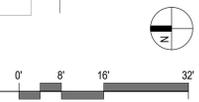
LEVEL 1 FLOOR PLAN

SHEET NO.

**A101**



**1 FLOOR PLAN LEVEL 1**  
 1/16" = 1'-0"



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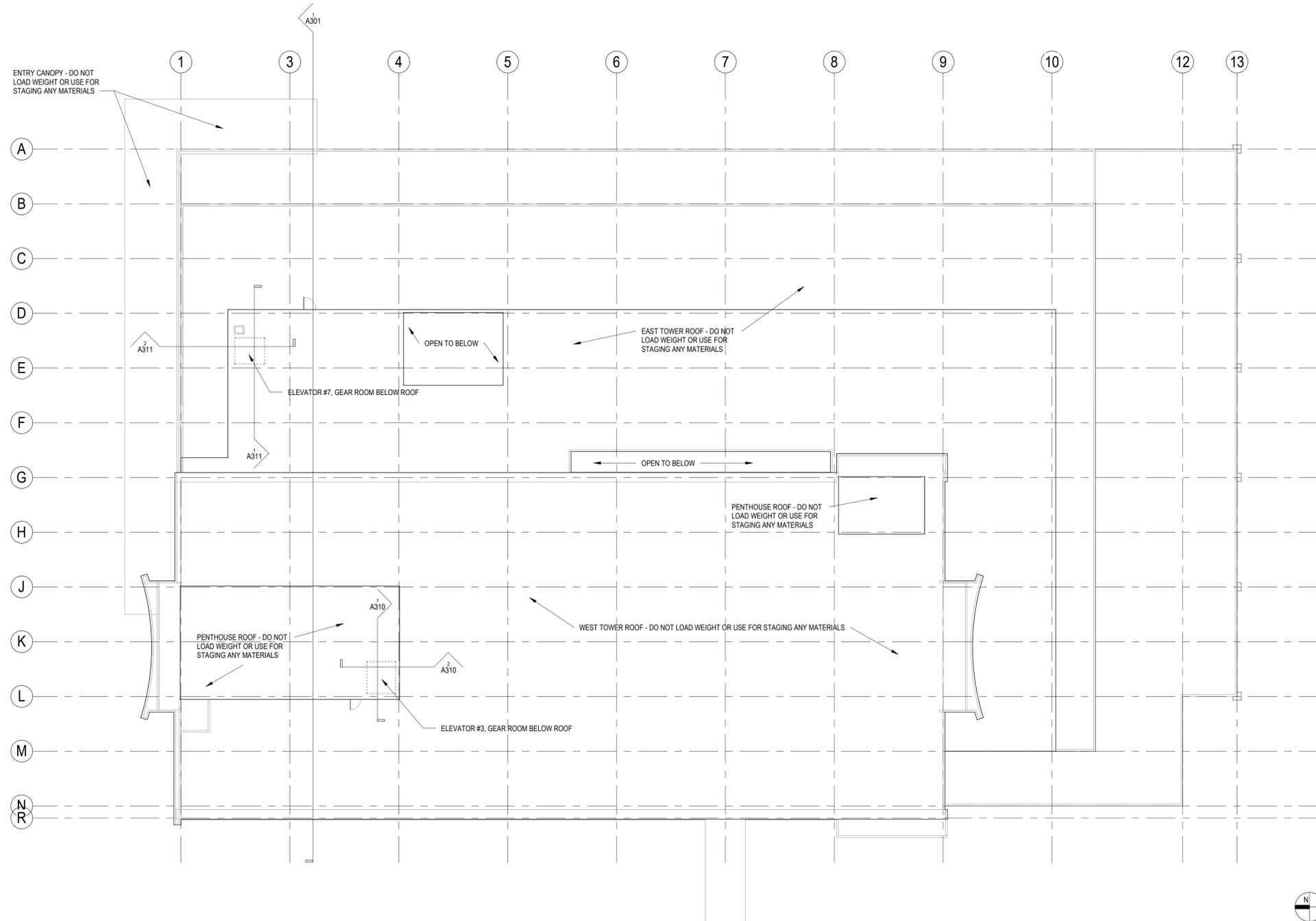
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SHEET TITLE

ROOF PLAN

SHEET NO.

**A191**



**1 ROOF PLAN**  
 1/16" = 1'-0"

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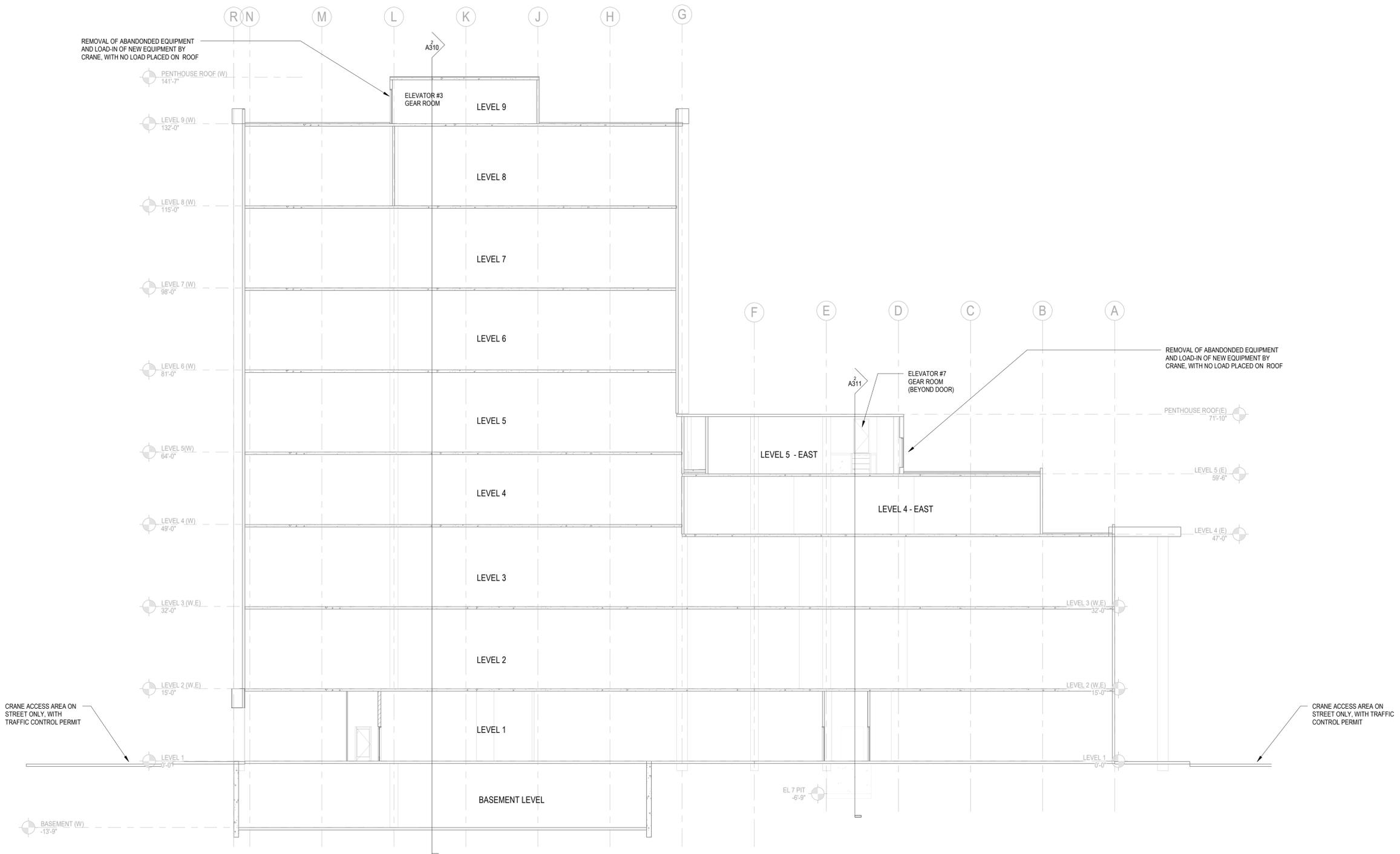
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SHEET TITLE

BUILDING SECTION

SHEET NO.

**A301**



**1 Section 1**  
 3/32" = 1'-0"



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 Elevator #3 and #7 Modernization  
 400 COUNTY CENTER  
 REDWOOD CITY, CA 94063  
 CLIENT  
 County of San Mateo

PROJECT MANAGER

Department of Public Works  
 555 COUNTY CENTER  
 REDWOOD CITY, CA 94063

**VTX**  
 VERTICAL TRANSPORTATION EXCELLENCE  
 Elevator and Escalator Consulting a division of Gannett Fleming, Inc.  
 3838 N. Central Avenue, Suite 1900  
 Phoenix, AZ 85012-1957

**ARCHITEKTON**



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REVISIONS

No.	Description	Date
2	PLAN CHECK	4/4/22

SCALE  
 AS NOTED

PROJECT NO.

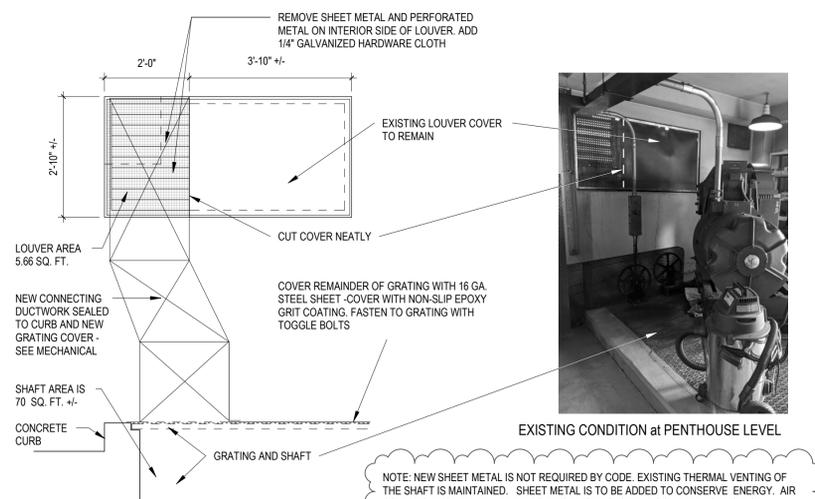
ISSUE DATE  
 100% SET 10/14/21, 4/4/22

SHEET TITLE

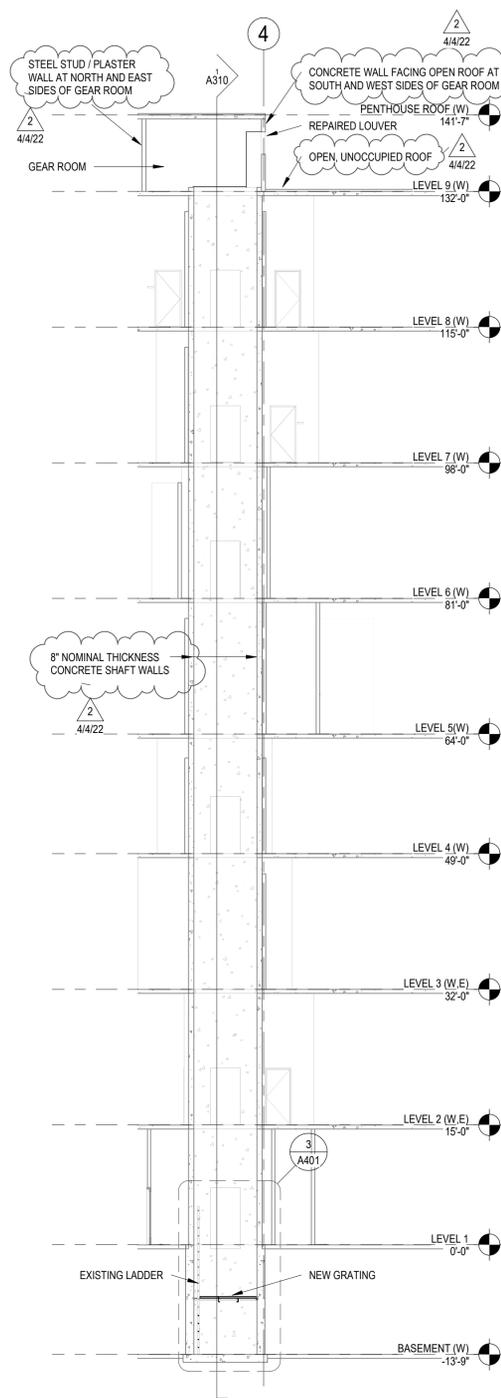
ELEVATOR #3 SHAFT SECTIONS

SHEET NO.

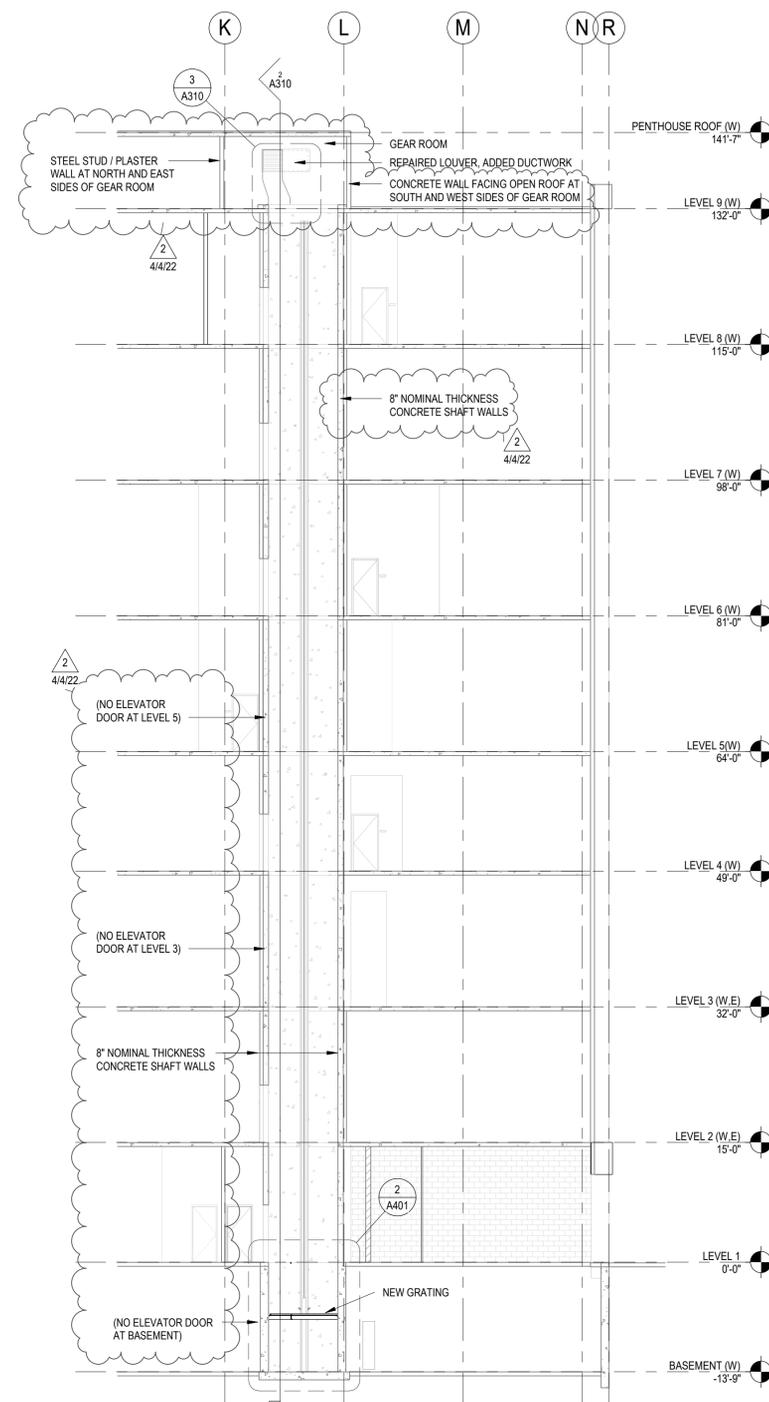
**A310**



(LOOKING SOUTH)  
**3 REPAIRED LOUVER / ADDED DUCTWORK**  
 1/2" = 1'-0"



**2 Elev #3, North-South Section**  
 3/32" = 1'-0"



**1 Elevator #3 East-West Section**  
 3/32" = 1'-0"

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

Jun 03 2022

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*[Signature]*



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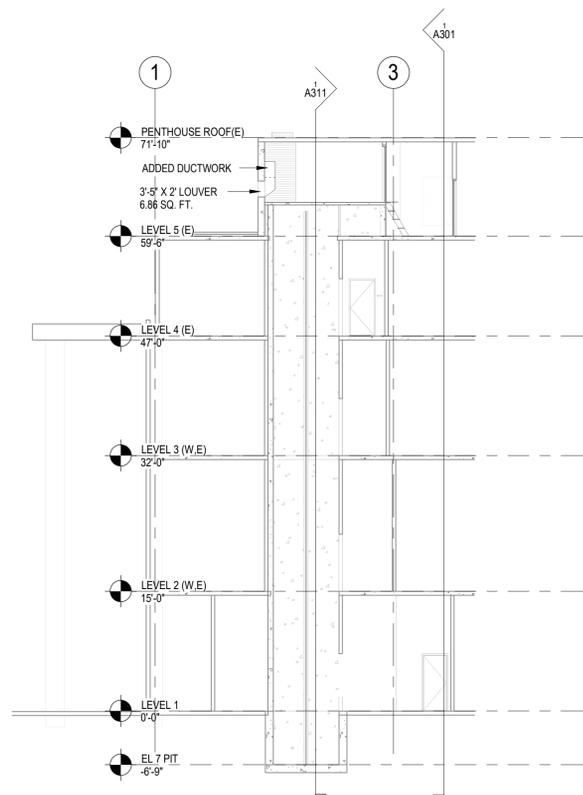
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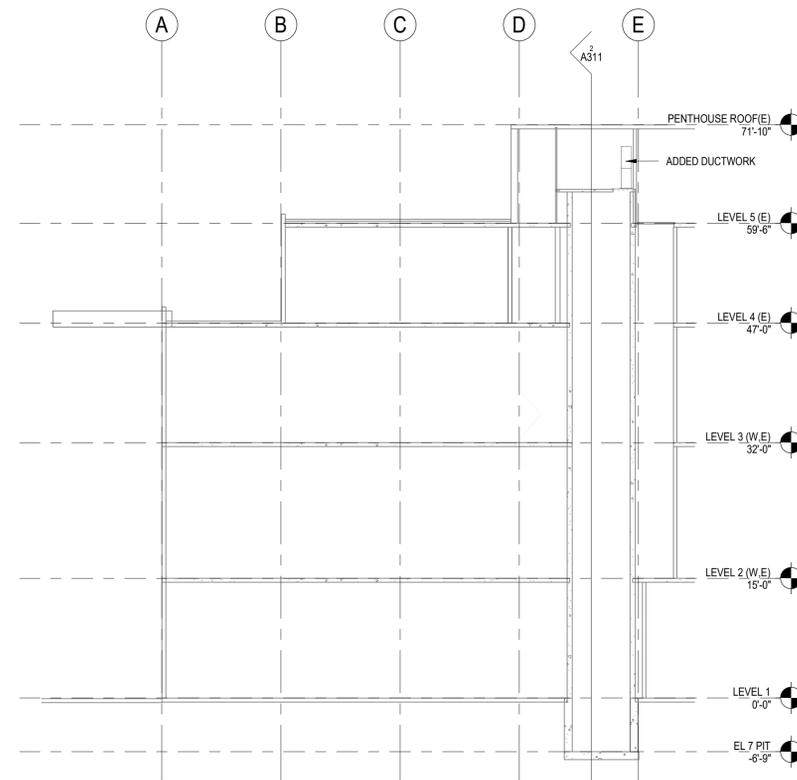
ELEVATOR #7 SHAFT SECTIONS

SHEET NO.

**A311**



**2** Elev #7, North-South Section  
 3/32" = 1'-0"



**1** Elev #7, East -West Section  
 3/32" = 1'-0"

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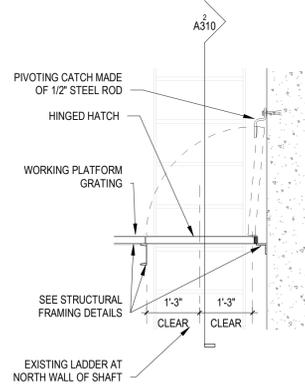
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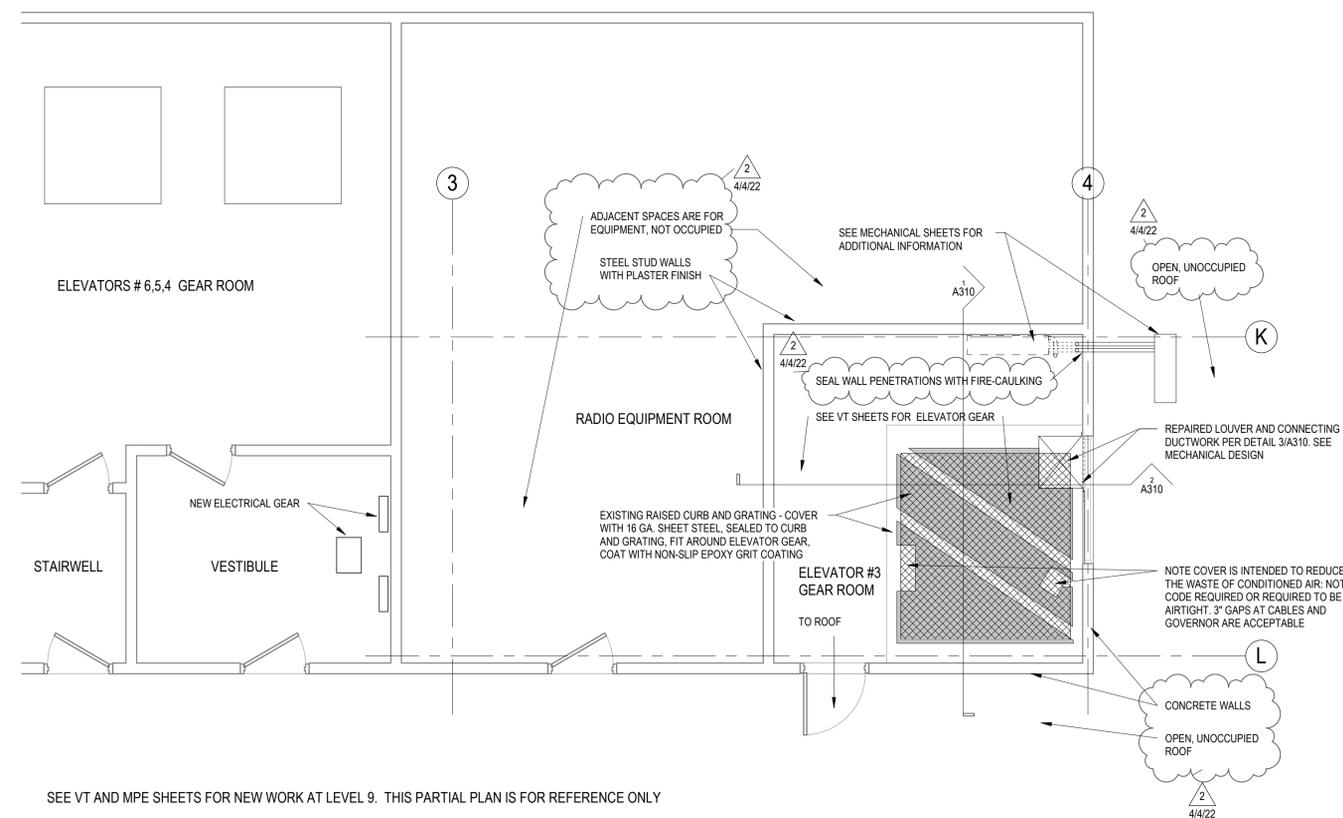
ENLARGED PLANS AND DETAILS,  
 ELEV #3

SHEET NO.

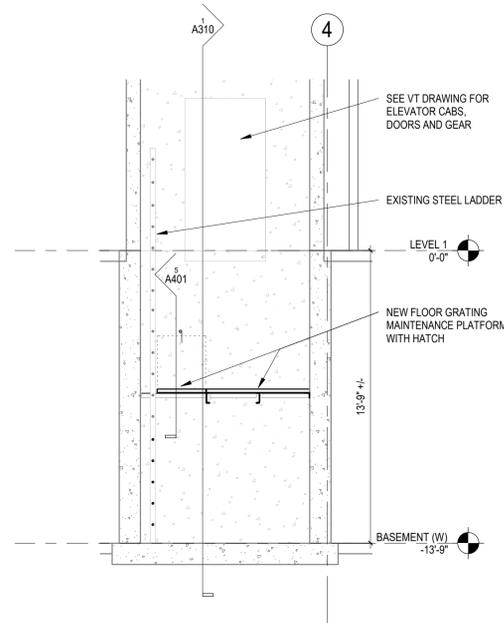
**A401**



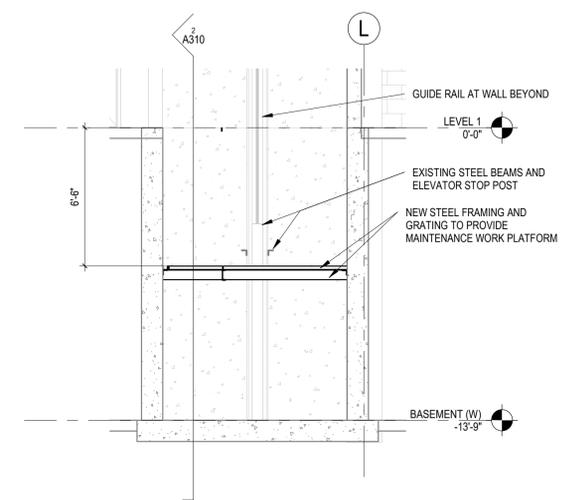
**5 Elev Pit #3 Hatch**  
 1/2" = 1'-0"



SEE VT AND MPE SHEETS FOR NEW WORK AT LEVEL 9. THIS PARTIAL PLAN IS FOR REFERENCE ONLY.  
**4 ELEVATOR #3 GEAR ROOM AT LEVEL 9**  
 1/4" = 1'-0"

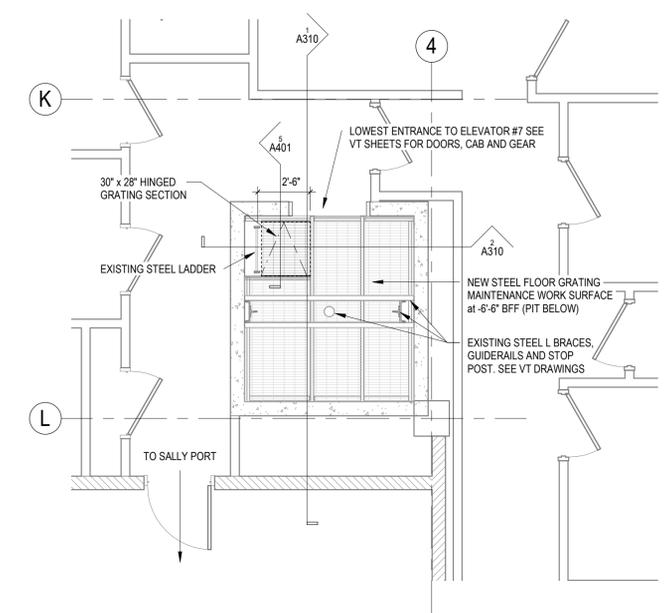


**3 Elev #3, N-S Pit Section**  
 1/4" = 1'-0"



**2 Elevator #3 E-W Pit Section**  
 1/4" = 1'-0"

SEE SHEET A403 FOR ENLARGED FLOOR PLANS OF OTHER LEVELS



SEE DETAILS ON THIS SHEET, VT AND MPE SHEETS FOR NEW WORK. WALLS ARE EXISTING, THIS PARTIAL PLAN IS FOR NEW STEEL GRATE PLATFORM ONLY.

**1 ELEVATOR #3 PIT AT LEVEL 1**  
 1/4" = 1'-0"

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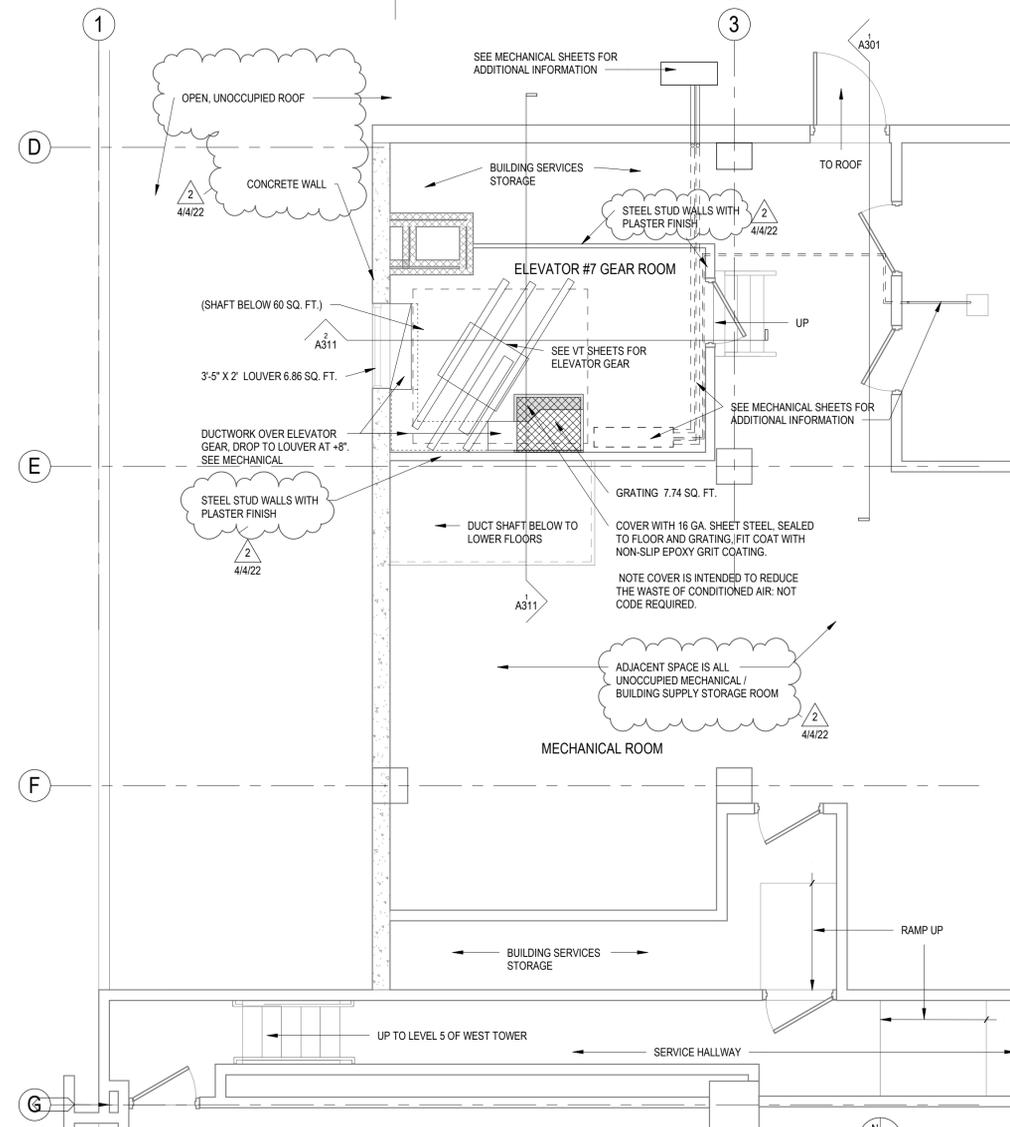
ISSUE DATE  
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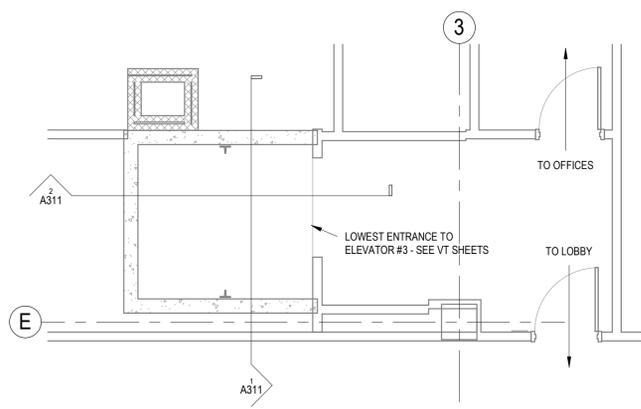
ENLARGED PLANS - ELEV #7

SHEET NO.

**A402**



SEE VT AND MPE SHEETS FOR NEW WORK. THIS PARTIAL PLAN IS FOR REFERENCE ONLY  
**ELEVATOR #7 GEAR ROOM AT LEVEL 5**  
 1/4" = 1'-0"



SEE VT AND MPE SHEETS FOR NEW WORK. THIS PARTIAL PLAN IS FOR REFERENCE ONLY  
**ELEVATOR #7 AT LEVEL 1**  
 1/4" = 1'-0"

SEE SHEET A403 FOR ENLARGED FLOOR PLANS OF OTHER LEVELS

REVIEWED FOR CODE COMPLIANCE  
 THIS IS FOR REFERENCE and does not constitute a code violation of State or County Building laws.  
 JUN 03 2022

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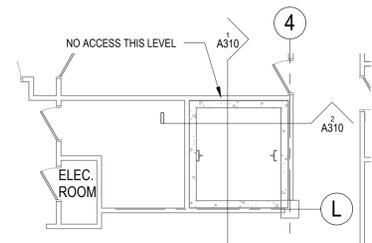
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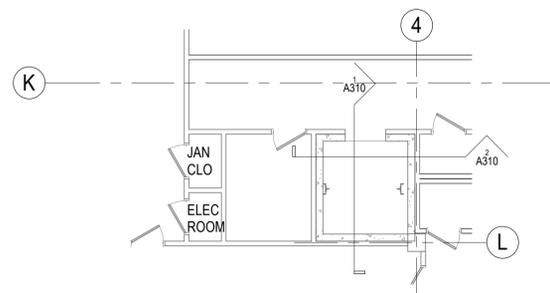
ENLARGED PLANS

SHEET NO.

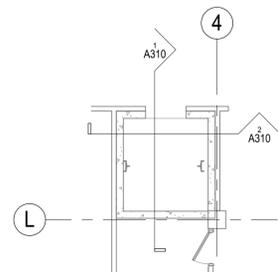
**A403**



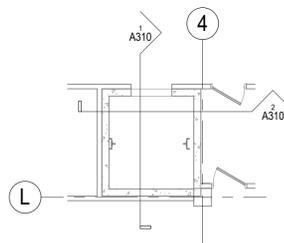
**7 ELEV #3 at LEVEL 5**  
 1/8" = 1'-0"



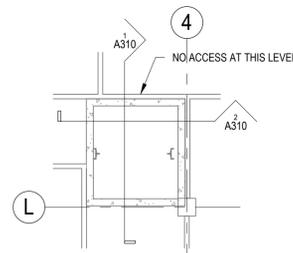
**10 ELEV #3 at LEVEL 8**  
 1/8" = 1'-0"



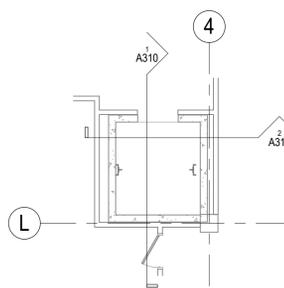
**6 ELEV #3 at LEVEL 4**  
 1/8" = 1'-0"



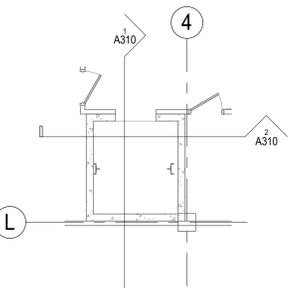
**9 ELEV #3 at LEVEL 7**  
 1/8" = 1'-0"



**5 ELEV #3 at LEVEL 3**  
 1/8" = 1'-0"



**8 ELEV #3 at LEVEL 6**  
 1/8" = 1'-0"

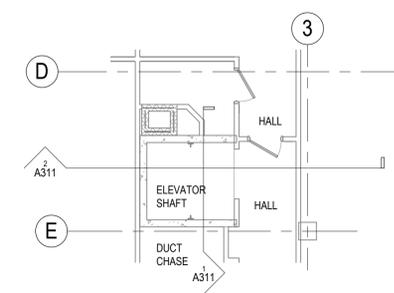


**4 ELEV #3 at LEVEL 2**  
 1/8" = 1'-0"

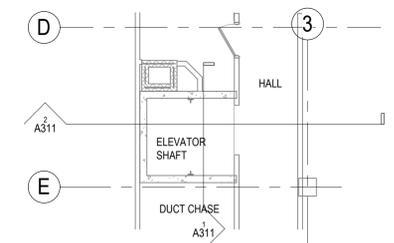
NOTE: ALL ELEVATOR #3 SHAFT WALLS SHOWN ON THIS SHEET ARE 6" THICK CONCRETE

SEE SHEETS A401 AND A402 FOR TOP AND BOTTOM LEVEL ENLARGED FLOOR PLANS

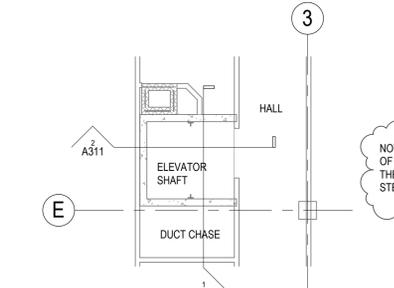
SEE VT AND MPE SHEETS FOR NEW WORK. THESE PARTIAL PLANS ARE FOR REFERENCE ONLY



**3 ELEV #7 at LEVEL 4**  
 1/8" = 1'-0"



**2 ELEV #7 at LEVEL 3**  
 1/8" = 1'-0"



**1 ELEV #7 at LEVEL 2**  
 1/8" = 1'-0"

REVIEWED FOR CODE COMPLIANCE  
 THIS REVIEW DOES NOT AUTHORIZE VIOLATION OF STATE OR LOCAL BUILDING LAWS.

Jun 03 2022

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**GENERAL STRUCTURAL NOTES**

- 1.01 GENERAL:
- A. THE STRUCTURAL DRAWINGS SHOW THE COMPLETED PROJECT. THEY DO NOT INCLUDE COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND AROUND THE JOB SITE DURING CONSTRUCTION.
  - B. GENERAL NOTES, SECTIONS AND TYPICAL DETAILS APPLY EVEN THOUGH NOT SPECIFICALLY REFERENCED ON STRUCTURAL DRAWINGS.
- 1.02 COORDINATION:
- A. STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
  - B. ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL AND SIGNATURE OF AN INSURED PROFESSIONAL STRUCTURAL OR CIVIL ENGINEER REGISTERED IN THE STATE IN WHICH THE SUBMITTED ITEMS WILL BE INSTALLED WHO IS A RECOGNIZED EXPERT IN THE TYPE OF WORK SHOWN AND SPECIFIED.
  - C. ANY CHANGES PROPOSED BY THE CONTRACTOR TO THE DESIGN OF THE STRUCTURE DURING CONSTRUCTION SHALL BE SUBMITTED FOR REVIEW TO THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF STRUCTURAL AND NON-STRUCTURAL ELEMENTS AFFECTED BY PROPOSED CHANGES.
  - D. VERIFY NEW AND EXISTING DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.
- 2.01 FIELD EXECUTION:
- A. STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURES. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, SHORING, GUYING AND OTHER MEANS TO AVOID EXCESSIVE STRESSES AND HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION.
  - B. CONTRACTOR SHALL EXERCISE EXTREME CARE TO AVOID DAMAGE TO EXISTING STRUCTURES. CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS REQUIRED TO FACILITATE CONSTRUCTION OF THE WORK AND FOR ENSURING THE SAFETY, STABILITY AND INTEGRITY OF ADJACENT STRUCTURES AND FACILITIES.
  - C. WHEN ANCHORING, SHOOTING, DRILLING, CHIPPING OR CORING INTO CONCRETE THE AREA SHALL BE SCANNED USING GROUND PENETRATING RADAR (GPR) PRIOR TO START OF WORK. DO NOT CUT OR NICK EXISTING REINFORCING.
  - D. POWDER ACTUATED (EXPLOSIVE NOISE TYPE) FASTENER SYSTEMS SHALL NOT BE ALLOWED INSIDE PUBLIC OCCUPIED BUILDINGS WITHOUT OWNERS APPROVAL. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND OTHER SUBCONTRACTORS THE LOCATION, TIME OF DAY, AND OTHER FIELD CONDITIONS UNDER WHICH SUCH WORK MAY OCCUR INSIDE PUBLIC OCCUPIED BUILDINGS.

**STRUCTURAL DESIGN PARAMETERS**

- 1.01 GENERAL:
- A. CONSTRUCTION SHALL COMPLY WITH THE BUILDING CODE AND OTHER APPLICABLE CODES AND STANDARDS.
  - B. BUILDING CODE: CALIFORNIA EXISTING BUILDING CODE (CEBC 2019)
- 2.01 DESIGN CRITERIA:
- A. REFERENCE STANDARDS: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-16.
  - B. LIVE LOADS:
    - 1. PLATFORM LIVE LOADS:
      - i. UNIFORM DISTRIBUTED LOAD = 100 PSF
      - ii. CONCENTRATED LIVE LOAD = 3000 LBS OVER 2.5FTx2.5FT AREA
  - C. WIND LOAD PARAMETERS:
    - 1. EXPOSURE CATEGORY = C
    - 2. BASIC WIND SPEED = 98 MPH
  - D. SEISMIC LOAD PARAMETERS:
    - 1. STRUCTURAL RISK CATEGORY = III
    - 2. SITE CLASS D
    - 3. SEISMIC DESIGN CATEGORY = E
    - NOTE: CONSERVATIVE SDC E ASSUMED IN LIEU OF SITE SPECIFIC GROUND MOTION ANALYSIS.
    - 4. S(DS) = 1.391g
    - 5. S(D1) = SEE SEISMIC DESIGN CATEGORY
    - NOTE: VALUE NOT AVAILABLE WITHOUT SITE SPECIFIC GROUND MOTION ANALYSIS.
    - 6. S(1) = 0.708g
    - 7. S(s) = 1.739g
    - 8. I(e) = 1.25
    - 9. DESIGN BASE SHEAR: (N/A)
    - 10. RESPONSE COEFFICIENT = C(s) = 0.22
    - 11. RESPONSE MODIFICATION FACTOR: R = 8
    - 12. BSFR-SYSTEM = (N/A)
    - 13. ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE FOR NONSTRUCTURAL COMPONENTS.

**SUBMITTALS**

- 1.01 GENERAL:
- A. THE STRUCTURAL ENGINEER WILL REVIEW SUBMITTALS FOR COMPLIANCE WITH THE GENERAL DESIGN INTENT OF THE STRUCTURE AND REQUIREMENTS OF THE CONTRACT DOCUMENTS.
  - B. IF A SUBMITTAL CONTAINS VARIATIONS FROM THE CONTRACT DRAWINGS, NOTIFY THE STRUCTURAL ENGINEER IN WRITING DESCRIBING THE EXTENT AND REASON FOR THE VARIATION, AND CLEARLY IDENTIFY ALL ITEMS INVOLVED.
  - C. RE-SUBMITTED SHEETS SHALL CLEARLY IDENTIFY ADDED OR CORRECTED INFORMATION AND THE ITEMS INVOLVED BY CLOUDING AROUND ADDED OR CHANGED INFORMATION.
  - D. BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW, THE CONTRACTOR SHALL REVIEW, APPROVE, AND SO STAMP EACH SUBMISSION FOR CONFORMANCE WITH MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION, AND WITH SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  - E. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK SHOP DRAWINGS, AND COORDINATE SUBMITTAL INFORMATION AND CONTRACT INTERFACES PRIOR TO SUBMITTING FOR REVIEW.
  - F. SUBMITTALS WILL BE RETURNED WITHOUT REVIEW IF CURSORY EXAMINATION REVEALS MAJOR ERRORS WHICH SHOULD HAVE BEEN FOUND BY THE CONTRACTOR'S CHECKING. MATERIAL NOT CALLED FOR OR WHICH HAS NOT BEEN APPROVED BY THE CONTRACTOR AND BEAR THEIR STAMP WILL BE RETURNED WITHOUT REVIEW.
  - G. WORK DONE PRIOR TO OR WITHOUT SUBMITTAL REVIEW AND APPROVAL BY THE ENGINEER IS PERFORMED AT THE CONTRACTOR'S OWN RISK AND RESPONSIBILITY.
  - H. DIMENSION CHECKING AND CHECKING OF DESIGN CHANGES PROPOSED BY THE CONTRACTOR WITHOUT PRIOR CONSULTATION WITH THE ENGINEER SHALL BE CHECKED ONLY IF THE CONTRACTOR WISHES THEM TO BE CHECKED AT THEIR OWN COST.
  - I. ENGINEERING SUBMITTED FOR REVIEW SHALL BE APPROPRIATELY SEALED. FULL RESPONSIBILITY FOR SUCH ENGINEERING RESTS WITH THE PERSON SEALING THE DESIGN.
- 2.01 THE FOLLOWING ARE REQUIRED FOR SUBMITTAL FOR STRUCTURAL REVIEW:
- A. POST INSTALLED ANCHOR ASSEMBLY PRODUCT DATA
  - B. STRUCTURAL STEEL SHOP DRAWINGS
  - C. GRATING SHOP DRAWINGS
  - D. REPORT OF ANCHOR TENSION TEST RESULTS

**STRUCTURAL INSPECTION**

- 1.01 GENERAL:
- A. THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL STRUCTURAL INSPECTORS IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE.
- 1.02 CONTRACTOR AND STRUCTURAL INSPECTOR RESPONSIBILITIES:
- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SELF INSPECT THE STRUCTURAL WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. PRIOR TO REQUESTING ANY SPECIAL INSPECTION, STRUCTURAL INSPECTION PROVIDED BY OTHERS DOES NOT RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY. STRUCTURAL DEVIATIONS FROM THE CONTRACT DOCUMENTS THAT ARE FOUND AT A LATER DATE AND ARE DECLARED TO BE SIGNIFICANT BY THE STRUCTURAL ENGINEER OF RECORD SHALL BE CORRECTED BY THE CONTRACTOR WITH ALL DISPATCH.
  - B. THE STRUCTURAL INSPECTOR IS NOT AUTHORIZED TO STOP OR DELAY THE WORK. IF THE CONTRACTOR ELECTS TO CONTINUE WITH CERTAIN WORK AFTER BEING NOTIFIED BY THE STRUCTURAL INSPECTOR THAT SUCH WORK IS UNACCEPTABLE, THE CONTRACTOR DOES SO AT THEIR OWN RESPONSIBILITY AND RISKS CORRECTING THE WORK AT A LESS OPPORTUNE TIME.
  - C. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE FACILITIES FOR THE STRUCTURAL INSPECTOR TO INSPECT THE WORK SAFELY AND EFFICIENTLY. TWENTY-FOUR (24) HOUR NOTICE IS REQUIRED PRIOR TO INSPECTION.
  - D. WORK MUST BE COMPLETED AT TIME OF INSPECTION. CONTRACTOR SHALL BEAR THE EXPENSE OF ADDITIONAL INSPECTIONS THAT MAY OCCUR BECAUSE OF INCOMPLETE OR INCORRECT WORK.
  - E. INSPECTION OF WORK PROVIDED BY THE CONTRACTOR SUCH AS TEMPORARY SHORING OR JACKING SYSTEMS SHALL BE PROVIDED BY THE CONTRACTOR'S DESIGN ENGINEER FOR THOSE SYSTEMS. THE CONTRACTOR/ENGINEER SHALL PROVIDE A LETTER/REPORT TO BOTH THE OWNER AND ENGINEER OF RECORD THAT THESE INSPECTIONS HAVE BEEN COMPLETED BEFORE EACH PHASE OF SUCH WORK CAN PROCEED.
  - F. THE STRUCTURAL INSPECTOR IS NOT RESPONSIBLE FOR OSHA COMPLIANCE OR FOR TEMPORARY CONSTRUCTION, SUCH AS BRACING.
  - G. THE STRUCTURAL INSPECTOR IS NOT AUTHORIZED TO DIRECT OR APPROVE CHANGES FROM THE CONTRACT DOCUMENTS. IF THE CONTRACTOR WISHES TO QUESTION THE STRUCTURAL INSPECTOR'S INTERPRETATION OF THE CONTRACT DOCUMENTS, THEY MAY DO SO DIRECTLY WITH THE STRUCTURAL ENGINEER OF RECORD.

- 2.01 SHOP FABRICATIONS:
- A. SHOP FABRICATION WORK IS SUBJECT TO SPECIAL STRUCTURAL INSPECTION UNLESS THE FABRICATOR IS REGISTERED AND APPROVED BY THE BUILDING OFFICIAL TO PERFORM WORK WITHOUT SPECIAL INSPECTION.
  - B. FABRICATOR SHALL SUBMIT CERTIFICATE OF COMPLIANCE STATING WORK PERFORMED IS IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS.
- 3.01 REQUIRED VERIFICATION AND SPECIAL INSPECTIONS:

INSPECTION OF STEEL CONSTRUCTION	
INSPECTION ITEM	FREQUENCY OF INSPECTION
<b>A. HIGH STRENGTH BOLTING:</b>	
1. MATERIAL IDENTIFICATION MARKINGS	PERIODIC
2. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	PERIODIC
3. BEARING-TYPE CONNECTIONS	PERIODIC
<b>B. WELDING OF STRUCTURAL STEEL:</b>	
1. COMPELTE AND PARTIAL PENETRATION GROOVE WELDS	CONTINUOUS
2. MULTIPASS FILLET WELDS	CONTINUOUS
3. SINGLE-PASS FILLET WELDS > 5/16"	CONTINUOUS
4. SINGLE-PASS FILLET WELDS < 5/16"	PERIODIC
5. DECK, GRATING, AND PANEL WELDS	PERIODIC
<b>C. STRUCTURAL STEEL FRAMING:</b>	
1. COMPLIANCE WITH CONSTRUCTION DOCUMENT DETAILS AND SPECIFICATIONS	PERIODIC
2. MATERIALS IDENTIFICATION	PERIODIC

INSPECTION OF POST-INSTALLED ANCHORS AND DOWELS (RE: PRODUCT ICC-ES EVALUATION REPORT)	
INSPECTION ITEM	FREQUENCY OF INSPECTION
<b>A. ADHESIVE ANCHORS AND REINFORCEMENT DOWELS:</b>	
1. VERIFY DRILL BIT TYPE AND SIZE	CONTINUOUS
2. HOLE DEPTH AND CLEANING PROCEDURE	CONTINUOUS
3. PRODUCT DESCRIPTION INCLUDING NAME, ROD TYPE, DIAMETER, AND LENGTH	CONTINUOUS
4. ADHESIVE EXPIRATION DATE	CONTINUOUS
5. PROPER INSTALLATION TECHNIQUE FOR ADHESIVE ANCHORS	CONTINUOUS

- 1. "PERIODIC" SPECIAL INSPECTION: THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF WORK. (IBC CHAPTER 17)
- 2. "CONTINUOUS" SPECIAL INSPECTION - THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. (IBC CHAPTER 17)
- 3. ITEMS NOT LISTED MAY REQUIRE CONTINUOUS OR PERIODIC SPECIAL STRUCTURAL INSPECTION AT THE DISCRETION OF THE ENGINEER OF RECORD. ITEMS LISTED MAY REQUIRE ALTERNATE FREQUENCIES OF INSPECTION OTHER THAN SHOWN ABOVE UNDER DIRECTION OF THE ENGINEER OF RECORD.

**STRUCTURAL OBSERVATION**

- 1.01 GENERAL:
- A. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY A REGISTERED DESIGN PROFESSIONAL FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. THESE OBSERVATIONS DO NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTION AS DEFINED BY SPECIAL INSPECTION.
  - B. THE STRUCTURAL OBSERVER IS NOT RESPONSIBLE FOR OSHA COMPLIANCE OR FOR TEMPORARY CONSTRUCTION, SUCH AS BRACING, SHORING, MEANS AND METHODS, ETC.
  - C. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE FACILITIES FOR THE STRUCTURAL OBSERVER.
  - D. THE STRUCTURAL OBSERVER IS NOT AUTHORIZED TO DIRECT OR APPROVE ANY CHANGES TO THE CONTRACT DOCUMENTS. IF CONTRACTOR WISHES TO QUESTION THE STRUCTURAL OBSERVER'S INTERPRETATION OF THE CONTRACT DOCUMENTS, THIS MAY BE DONE WITH THE APPROPRIATE MEASURES LISTED IN THE CONTRACT DOCUMENTS. THE STRUCTURAL OBSERVER IS NOT AUTHORIZED TO STOP OR DELAY THE WORK. IF THE CONTRACTOR ELECTS TO CONTINUE WITH THE CERTAIN WORK AFTER BEING NOTIFIED BY THE STRUCTURAL OBSERVER THAT SUCH WORK IS UNACCEPTABLE, THEY DO SO AT THEIR OWN RESPONSIBILITY AND RISK.
  - E. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE STRUCTURAL WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. STRUCTURAL OBSERVATION PROVIDED BY OTHERS DOES NOT RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY. DEFICIENCIES SHALL BE REPORTED BY THE STRUCTURAL OBSERVER IN WRITING.
  - F. STRUCTURAL DEVIATIONS FROM THE CONTRACT DOCUMENTS FOUND AT A LATER DATE AND DECLARED TO BE SIGNIFICANT BY THE STRUCTURAL ENGINEER SHALL BE CORRECTED BY THE CONTRACTOR IMMEDIATELY.

**GROUT**

- 1.01 NON-SHRINK GROUT
- A. USE PLASTIC OR STIFF (DRY PACK), NON-METALLIC NON-SHRINK GROUT WITH MINIMUM 7,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. CONFORM TO THE REQUIREMENTS OF CRD-C 621 CORPS OF ENGINEERS FOR NON-SHRINK GROUT.
  - B. SATURATE THE AREA WITH POTABLE WATER FOR 24 HOURS IMMEDIATELY PRIOR TO APPLICATION OF THE GROUT PER THE MANUFACTURER'S RECOMMENDATIONS. WET CURE AND APPLY CURING COMPOUNDS TO EXPOSED GROUT SURFACES.
  - C. USE BASF CONSTRUCTION GROUT, EUCCO DRY PACK GROUT, OR EQUAL.
- 1.02 NON-SHRINK EPOXY GROUT
- A. USE POURABLE, NON-SHRINK, 100% SOLIDS FORMULA WITH MINIMUM 5000 PSI COMPRESSIVE STRENGTH AT 24 HOURS.
  - B. ROUGHEN CONCRETE SURFACE AND EXPOSE AGGREGATE. APPLY TO CLEAN, DRY SURFACE PER MANUFACTURER'S RECOMMENDATIONS.
  - C. USE BASF MASTERFLOW 648 CP, EUCCO E3-F OR EQUAL.

**POST-INSTALLED ANCHORS AND DOWELS**

- 1.01 DESCRIPTION:
- A. THIS SECTION COVERS THE REQUIREMENTS FOR MATERIALS AND INSTALLATION OF POST-INSTALLED ADHESIVE ANCHORS, DOWELS AND MECHANICAL ANCHORS IN CONCRETE AND MASONRY CONSTRUCTION.
  - B. DO NOT USE POST-INSTALLED ADHESIVE ANCHOR OR DOWELS SYSTEMS TO RESIST GRAVITY LOADS IN FIRE RATED CONSTRUCTION.
  - C. POST INSTALLED ANCHORS AND DOWELS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS.
  - D. DO NOT CUT EXISTING REINFORCING. GPR/XRAY/FERRO SCAN BEFORE STARTING WORK. COORDINATE HOLE LOCATION WITH SPECIAL INSPECTOR AND ENGINEER BEFORE CUTTING HOLE.
- 1.02 QUALITY ASSURANCE:
- A. PROVIDE SPECIAL INSPECTION IN ACCORDANCE WITH THE APPLICABLE ICC-ES REPORT, THE BUILDING CODE, AND THE GENERAL STRUCTURAL NOTES.
  - B. INSTALL ALL ADHESIVE ANCHORS, DOWELS AND MECHANICAL ANCHORS PER ADHESIVE MANUFACTURER'S REQUIREMENTS.
- 1.03 ANCHOR SUBSTITUTION:
- A. SUBSTITUTION REQUESTS FOR POST-INSTALLED CONCRETE ANCHORS OTHER THAN THOSE SPECIFIED ON DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTE PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND OR STANDARDS AS REQUIRED BY THE BUILDING CODE. SUBSTITUTE MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI-308.2 AND ICC-ES AC108 FOR CRACKED CONCRETE. SUBSTITUTE ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI-308.4 AND ICC-ES AC308 FOR CRACKED CONCRETE.
  - B. ENGINEER RESERVE THE RIGHT TO REJECT ALL REQUESTS. DO NOT ORDER MATERIAL UNTIL REQUEST IS APPROVED.

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REDWOOD CITY, CA 94063

CLIENT  
County of San Mateo

PROJECT MANAGER

Department of Public Works  
555 COUNTY CENTER  
REDWOOD CITY, CA 94063



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Phoenix, AZ 85012-1957



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SHEET TITLE

GENERAL STRUCTURAL NOTES I

SHEET NO.

**S001**

- 2.01 ANCHORS RODS, BOLTS, AND SLEEVES:
- A. SUBMERGED, EXTERIOR, OR BURIED CONDITIONS: PROVIDE ASTM F593 AISI TYPE 316 STAINLESS STEEL ANCHOR BOLTS WITH ASTM F594 STAINLESS STEEL NUTS.
  - B. INTERIOR CONDITIONS: PROVIDE ASTM A307 CARBON STEEL ANCHOR RODS (U.N.O.).

- 2.02 ADHESIVES FOR ANCHORS AND DOWELS IN CONCRETE:
- A. HIT-RE 500 V3 BY HILTI (ICC-ES REPORT #ESR-3814),
  - B. SET-XP BY SIMPSON (ICC-ES REPORT #ESR-2508),
  - C. OR APPROVED EQUAL.

- 3.01 FIELD INSTALLATION:
- A. INSTALL ANCHORS ONLY AFTER CONCRETE HAS REACHED ITS MINIMUM SPECIFIED STRENGTH.
  - B. LOCATE ANCHORS TO AVOID DAMAGE TO REINFORCEMENT. USE GROUND PENETRATING RADAR (GPR) ON CONCRETE TO LOCATE THE EXISTING REINFORCING. MARK REINFORCING LOCATIONS ON THE CONCRETE SURFACE. COORDINATE LOCATIONS OF HOLES TO BE DRILLED WITH MARKS TO CLEAR THE EXISTING REINFORCING.
  - C. INSTALL ANCHORS IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. SEE SPECIAL INSPECTION REQUIREMENTS AND PRODUCT ICC-ES EVALUATION REPORT FOR INSPECTION REQUIREMENTS.
  - D. CLEAN DRILLED HOLES AS REQUIRED TO REMOVE PARTICULATE DEBRIS AND TO ACHIEVE A DUST FREE SURFACE.
  - E. TORQUE ADHESIVE ANCHORS UPON INSTALLING BASE MATERIAL, BUT ONLY AFTER ADHESIVE IS FULLY CURED AND LOAD TEST HAS BEEN PERFORMED.

- 3.02 CONNECTION OF NEW STEEL PLATES TO EXISTING CONCRETE:
- A. SHIP CONNECTION PLATES TO THE JOBSITE WITHOUT HOLES.
  - B. USE GROUND PENETRATING RADAR (GPR) TO LOCATE THE EXISTING REINFORCING. MARK REINFORCING LOCATIONS ON CONCRETE. MARK CONNECTION PLATE LOCATIONS ON THE CONCRETE SURFACE. DO NOT CUT EXISTING REINFORCING. REVIEW/COORDINATE WITH SPECIAL INSPECTOR/ENGINEER.
  - C. DRILL HOLES PER THE MARKS. PLACE TO MISS EXISTING REINFORCING. DO NOT CUT EXISTING REINFORCING.
  - D. PLACE CONNECTION PLATES OR TEMPLATE AGAINST EXISTING CONCRETE AND MARK HOLES LOCATIONS ON PLATES FROM MARKS PLACED ON THE CONCRETE SURFACE. VERIFY MARKS WITH DRILLED HOLES.
  - E. REMOVE CONNECTION PLATE OR TEMPLATE FROM CONCRETE SURFACE AND FIELD DRILL HOLES.
  - F. PLACE EXISTING PLATES AGAINST CONCRETE AND ALIGN HOLES IN PLATES WITH HOLES IN CONCRETE AND INSTALL ANCHORS.

- 3.03 LOAD TEST FOR ADHESIVE ANCHORS AND DOWELS REQUIREMENTS:
- A. THE CONTRACTOR SHALL INCLUDE IN THEIR BID THE TESTING BY AN INDEPENDENT LABORATORY OF A MINIMUM OF 5% CHOSEN AT RANDOM BY THE TESTING LABORATORY AND CONFIRMED BY THE STRUCTURAL ENGINEER (BUT NO LESS THAN 15) OF EACH TYPE OF ANCHOR INSTALLED. IF ANY ANCHOR FAILS, THE TESTING SHALL BE INCREASED TO 20% (BUT NO LESS THAN 30) AND MAY BE FURTHER INCREASED AFTER REVIEW BY THE STRUCTURAL ENGINEER.
  - B. FOR ANCHORS REQUIRING LOAD TESTING, APPLY THE LOAD PROVIDED ON PLANS AND DETAILS. SUSTAIN THE TENSION TEST LOAD FOR 5 MINUTES WITH NO DISCERNABLE MOVEMENT FROM THE ANCHOR.

**STRUCTURAL STEEL**

- 1.01 DESCRIPTION:
- A. THIS SECTION COVERS THE REQUIREMENTS FOR MATERIALS AND INSTALLATION OF STRUCTURAL STEEL.
  - B. CONTRACTOR SHALL FIELD VERIFY ALL FLOOR TO SOFFIT DIMENSIONS BEFORE START OF STRUCTURAL STEEL FABRICATION. THE EXISTING SLOPING FINISH CONCRETE SOFFIT ELEVATIONS VARIES THROUGHOUT THE BUILDING.

- 1.02 SUBMITTALS:
- 1. SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW. FABRICATE ONLY FROM REVIEWED DRAWINGS.

- 1.03 STRUCTURAL STEEL FABRICATOR'S QUALIFICATIONS:
- 1. STRUCTURAL STEEL FABRICATOR MUST BE ON THE CITY'S PRE-APPROVED LIST AND PARTICIPATE IN THE AISC CERTIFICATION PROGRAM DESCRIBED IN AISC 201, AND BE DESIGNATED AN AISC CERTIFIED PLANT, CATEGORY STANDARD.

- 2.01 MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS, UNLESS NOTED OTHERWISE ON DRAWINGS:
- A. W-SHAPES - ASTM A992, FY=50 KSI
  - B. PLATES FOR W-SHAPE MEMBERS AND STRUCTURAL TUBES - ASTM A572 GR 50
  - C. OTHER ROLLED SECTIONS (ANGLES, CHANNELS, PLATES, ETC.) - ASTM A36, FY=36 KSI
  - D. WHERE NOTED 50 KSI ON DRAWINGS - ASTM A572, FY=50 KSI
  - E. STEEL PIPE - ASTM A53, TYPE E, GR. B, FY=35 KSI
  - F. STRUCTURAL ROUND (HSS) - ASTM A500, GR. C, FY=46 KSI
  - G. STRUCTURAL TUBES (HSS) - ASTM A500, GR. B, FY=50KSI
  - H. STRUCTURAL BOLTS U.N.O. - ASTM F3125 (TYPE N CONNECTION)
  - I. ANCHOR RODS/BOLTS - ASTM F1554, GRADE 36,
  - J. SHEET STEEL - ASTM A1011 GR36
  - K. WELDING RODS - E-70XX SERIES LOW HYDROGEN

- 2.02 FINISHES
- A. ALL STRUCTURAL STEEL TO BE HOT DIPPED GALVANIZED.

- 3.01 FIELD WELDING:
- A. FIELD WELDING, CUTTING AND GRINDING OF STEEL INSIDE THE PUBLIC OCCUPIED BUILDING SHALL NOT BE ALLOWED WITHOUT OWNERS APPROVAL. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND THE STEEL ERECTOR THE LOCATIONS, THE TIME OF DAY, SMOKE-FIRE ALARM SYSTEMS CONTROLS AND OTHER FIELD CONDITIONS UNDER WHICH WORK MAY OCCUR INSIDE THE PUBLIC OCCUPIED BUILDING DURING ALL PHASED CONSTRUCTION WORK.
  - B. PROVIDE HOT WORK PERMITS. HOT WORK IS ANY WORK INVOLVING WELDING, TORCH CUTTING, GRINDING, OPEN-FLAME SOLDERING, BRAZING OR SIMILAR OPERATIONS CAPABLE OF INITIATING FIRES OR EXPLOSIONS.
  - C. WELDING SHALL CONFORM TO THE FOLLOWING AMERICAN WELDING SOCIETY (AWS) STRUCTURAL WELDING CODES AS APPLICABLE.
    - 1. AWS D1.1 STRUCTURAL WELDING CODE-STEEL.
    - 2. AWS D1.3 STRUCTURAL WELDING CODE-SHEET STEEL
    - 3. AWS D1.4 STRUCTURAL WELDING CODE-REINFORCING STEEL
    - 4. AWS D1.6 STRUCTURAL WELDING CODE-STAINLESS STEEL
    - 5. AWS D1.7 GUIDE FOR STRENGTHENING AND REPAIRING EXISTING STRUCTURES
    - 6. AWS D1.8 STRUCTURAL WELDING CODE SEISMIC SUPPLEMENT
  - D. WELDERS SHALL HOLD VALID CERTIFICATES ISSUED BY AN ACCEPTED TESTING AGENCY WITHIN THE LAST 12 MONTHS. IF ANY CERTIFICATE IS MORE THAN 12 MONTHS OLD SUBMIT DETAILS OF COMPANY QUALITY CONTROL.
  - E. WELDERS SHALL SUBMIT WELDER QUALIFICATIONS AND WELDING PROCEDURE SPECIFICATIONS (WPS) TO THE ENGINEER FOR REVIEW PRIOR TO THE START OF WORK. QUALIFICATIONS AND WPS SHALL BE AVAILABLE ON SITE FOR REVIEW.
  - F. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE USE OF SHOP AND FIELD WELDS. SPLICES OF STEEL MEMBERS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE START OF WORK.
  - G. GRIND SMOOTH ALL EXPOSED WELDS AND CUT EDGES. FINAL APPROVAL IS BY THE ARCHITECT.
  - H. WELDING SHALL BE BY EITHER THE SHIELDED METAL ARC WELDING (SMAW) METHOD OR SHALL CONFORM TO AWS CODE FOR ARC AND GAS WELDING CONSTRUCTION.
    - 1. MECHANICAL PROPERTIES FOR THE IN-PLACE WELD (FILLER MATERIAL) SHALL HAVE CHARPY V-NOTCH IMPACT TOUGHNESS OF AT LEAST 20 FOOT-POUNDS AT 0 DEGREES.
    - 2. FIELD WELDS MAY NOT BE APPLIED OVER SHOP WELDS UNLESS A MANUFACTURER APPROVED COMPATIBLE ELECTRODE IS USED IN BOTH THE SHOP AND FIELD.
    - 3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE JOINT PREPARATION AND WELDING PROCEDURES INCLUDING, BUT NOT LIMITED TO: REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS VALUES, AND TAPERS AND TRANSITIONS OF UNEQUAL PARTS.
  - I. PROVIDE MINIMUM WELD SIZES PER AISC SPECIFICATIONS FOR GENERAL PROVISIONS FOR CONNECTIONS, JOINTS AND FASTENERS UNLESS SHOWN OTHERWISE ON DRAWINGS.
  - J. FILLER MATERIAL OF LOW HYDROGEN CLASSIFICATION(S) SHALL BE STORED IN ACCORDANCE WITH AWS REQUIREMENTS AND PARAMETERS. LOW HYDROGEN ELECTRODES SHALL BE USED WITHIN 4 HOURS OF OPENING THEIR THERMETICALLY SEALED CONTAINERS. ELECTRODES THAT HAVE BEEN WET SHALL NOT BE USED AND SHALL BE REMOVED FROM THE SITE.

- 3.02 NONDESTRUCTIVE TESTING (NDT):
- A. VISUAL INSPECTION WILL BE PERFORMED ON ALL WELDING PRIOR TO COMPLETION OR PRIOR TO SHIPMENT OF SHOP WELDING.
  - B. PERIODIC WELDING INSPECTIONS REQUIRE THAT THE MATERIALS, WELDING PROCEDURES AND QUALIFICATIONS OF WELDERS ARE VERIFIED PRIOR TO THE START OF WORK; PERIODIC INSPECTIONS ARE MADE DURING THE WORK; AND ALL WELDS RECEIVE A FINAL VISUAL INSPECTION.
  - C. MAGNETIC PARTICLE TESTING
    - 1. TEST ENDS OF FULL PENETRATION WELDS AFTER REMOVING RUN-OFF TABS AND GRINDING SMOOTH, AND PRIOR TO ULTRASONIC TESTING.
    - 2. TEST FILLET WELDS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
  - D. ULTRASONIC TESTING
    - 1. TEST BASE METAL THICKER THAN 1.5 INCHES IN THICKNESS AND CORNER JOINTS FOR DISCONTINUITIES BEHIND AND ADJACENT TO WELDS AFTER JOINT COMPLETION.
    - 2. TEST ENTIRE LENGTH OF FULL PENETRATION WELDS.

- 3.03 BOLTING:
- A. MANUFACTURER CERTIFICATIONS OF BOLTING FOR FASTENER COMPONENTS USED IN THE FASTENER ASSEMBLIES SHALL BE MADE AVAILABLE TO THE ENGINEER OF RECORD AND INSPECTOR PRIOR TO ASSEMBLY OR ERECTION OF STRUCTURAL STEEL.
  - B. HIGH STRENGTH BOLTS SHALL BE INSTALLED, TIGHTENED AND INSPECTED IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
  - C. THE USE OF FULL TENSION TORQUE CONTROL BOLT ASSEMBLIES IN SNUG TIGHT BEARING CONNECTIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
  - D. BOLTING SHALL BE TESTED AND REQUIRED VERIFICATIONS PERFORMED IN ACCORDANCE TO AISC SPECIFICATIONS PRIOR TO INSTALLATION.
  - E. FASTENER COMPONENTS SHALL BE STORED ON SITE IN ACCORDANCE WITH AISC SPECIFICATIONS.
  - F. PROVIDE WASHERS IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS," SECTION 6. PROVIDE PLATE WASHERS WHEN OVERSIZED OR LONG SLOTTED HOLES ARE IN THE OUTER PLY OF A CONNECTION.

- 3.04 THERMAL CUTTING:
- A. DO NOT FLAME CUT STEEL MEMBERS IN THE FIELD UNLESS APPROVED BY THE ENGINEER.

- 3.05 ALL COLUMN BASE PLATES AND OTHER BEARING PLATES SHALL BE GROUTED OR DRY PACKED PRIOR TO THE PLACEMENT OF ANY DECKING.

**GRATING AND COVER PANELS**

- 1.01 GENERAL:
- A. PROVIDE AND INSTALL GRATING SYSTEMS WHERE NOTED ON STRUCTURAL, PROCESS, OR MECHANICAL DRAWINGS COMPLETE WITH COVER PANELS AS NOTED ON DRAWINGS AND ALL NECESSARY ACCESSORIES INCLUDING, BUT NOT LIMITED TO, EMBEDDED EDGE ANGLES, MID-SUPPORT CLIPS, AND ANCHORAGES AT SUPPORTS. PROVIDE REQUIRED SEPARATION (BEARING PADS ETC.) BETWEEN NON-COMPATIBLE MATERIALS. COORDINATE CUTOUTS AS REQUIRED FOR PIPING AND EQUIPMENT PER ARCHITECTURAL AND VERTICAL TRANSPORTATION DRAWINGS.

- 1.02 SUBMITTALS:
- A. SUBMIT SHOP DRAWINGS AND LOAD TABLES FOR THE GRATING AND THEIR RESPECTIVE ATTACHMENTS TO THE ENGINEER FOR REVIEW.

- 1.03 QUALITY ASSURANCE:
- A. PROVIDE SIZES, ANCHORING DETAILS, FABRICATION TOLERANCES IN ACCORDANCE WITH THE LATEST EDITION OF NAAMM METAL BAR GRATING MANUAL (ANSI/NAAMM MBG 531).
  - B. PROVIDE NON-SKID TRAFFIC SURFACE THAT CONFORMS TO FEDERAL SPECIFICATION RR-G-1602A.
  - C. LIMIT THE WEIGHT OF INDIVIDUAL GRATING AND COVER PANEL UNITS DESIGNATED AS REMOVABLE TO 75 POUNDS.
  - D. USE ANCHORAGE DEVICES AND FASTENERS TO SECURE ALL GRATING TO SUPPORT ELEMENTS OR PREPARED OPENINGS, AS RECOMMENDED BY THE MANUFACTURER. PROVIDE REMOVABLE FASTENERS FOR GRATING AND COVER PANELS THAT ARE REMOVABLE.

- 2.01 STEEL MATERIAL:
- A. STEEL GRATING SHALL BE GALVANIZED CARBON STEEL BEARING BARS AND CROSS BARS WELDED TOGETHER. CROSS BARS MAY BE ROUND OR TWISTED. PROVIDE LOAD TYPE BANDING (WELD EACH BEARING BAR TO BAND BAR) CONTINUOUS ALONG EDGES AND CUTOUTS.
    - 1. GRATING BEARING BARS, CROSS BARS, AND BAND BARS SHALL CONFORM TO ASTM A 1011/A COMMERCIAL STEEL, TYPE 2.
    - 2. HOT-DIP GALVANIZE GRATING AFTER FABRICATION IN CONFORMANCE WITH ASTM A 123/A GRADE 45 (COATING NOT LESS THAN 1.80Z/SQFT).
      - i. MAXIMUM STEEL FIBER STRESS: 18,000 PSI (UNDER LIVE LOADS).

- 2.02 GRATING
- A. SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM LOADING REQUIREMENTS IN ACCORDANCE WITH THE BUILDING CODE. THE FOLLOWING LOADING CONDITIONS NEED NOT BE APPLIED SIMULTANEOUSLY:
    - B. UNIFORMLY DISTRIBUTED LIVE LOAD - 300 PSF (WITH NO LIMIT ON DEFLECTION).
    - C. CONCENTRATED LIVE LOAD: (WITH NO LIMIT ON DEFLECTION)
      - 1. 3000 LBS ON 2.5 FT x 2.5 FT AREA
      - 2. 300 LBS ON 2-INCH x 2-INCH AREA
    - D. MAXIMUM DEFLECTION UNDER UNIFORMLY DISTRIBUTED LIVE LOAD OF 100 PSF OR CONCENTRATED LIVE LOAD OF 1000 LBS ON 1.0FT X 1.0FT AREA: 1/4" MAX OR SPAN/240, WHICHEVER IS LESS

- 3.01 FIELD EXECUTION:
- A. ALL GRATING SHALL BE PERMANENTLY INSTALLED BY FIELD WELDING TO ALL END BEARING AND INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE AS REMOVABLE ON DRAWINGS. SECURE REMOVABLE GRATING TO END BEARING AND INTERMEDIATE SUPPORTS USING REMOVABLE DEVICES AND FASTENERS AS RECOMMENDED BY THE MANUFACTURER.
  - B. ALL COVER PANELS SHALL BE INSTALLED AS REMOVABLE.



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SHEET TITLE

GENERAL STRUCTURAL NOTES II

SHEET NO.

**S002**

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Jun 03 2022

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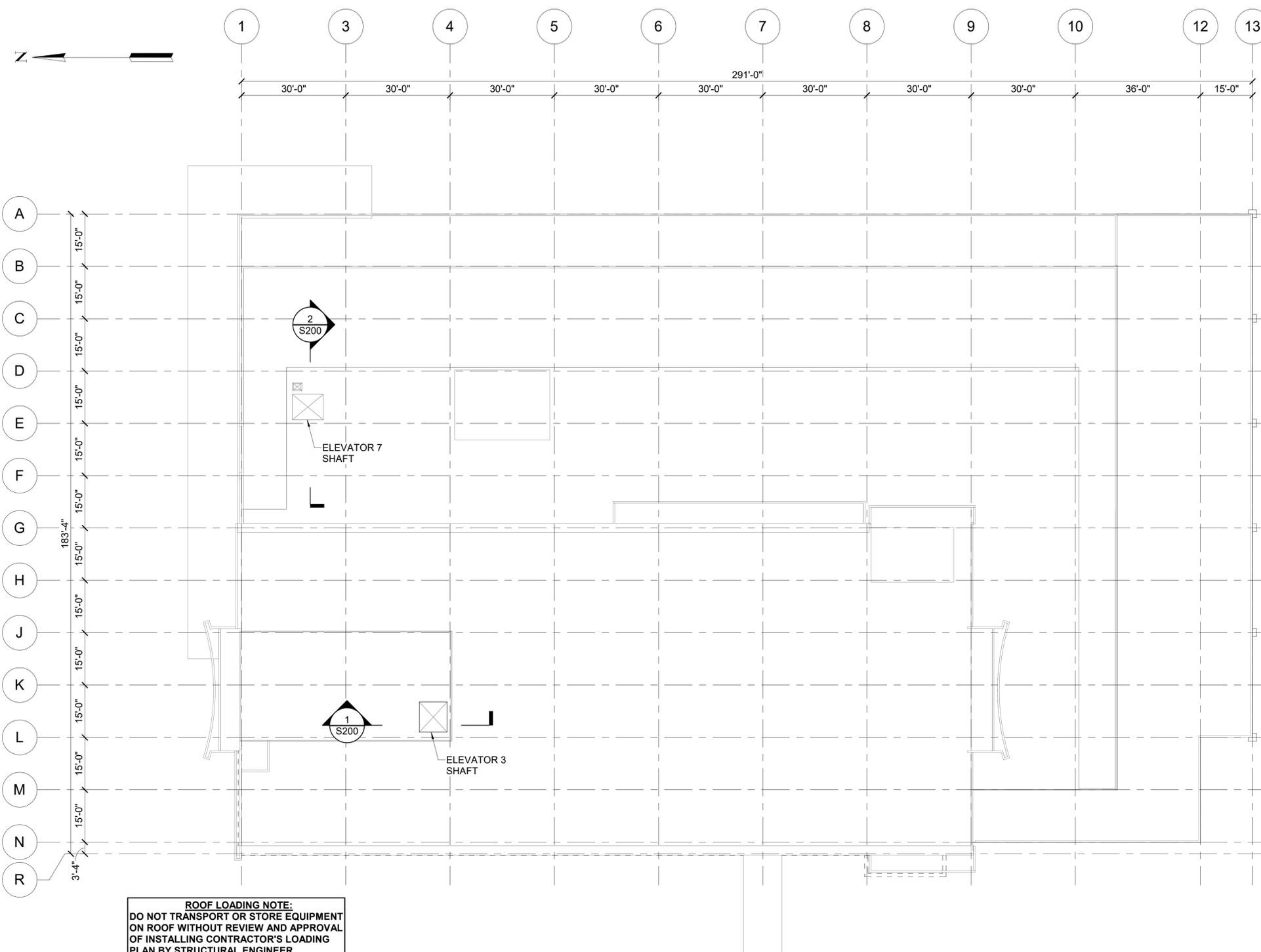
ISSUE DATE  
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SHEET TITLE

OVERALL ROOF PLAN

SHEET NO.

**S100**



**ROOF LOADING NOTE:**  
 DO NOT TRANSPORT OR STORE EQUIPMENT  
 ON ROOF WITHOUT REVIEW AND APPROVAL  
 OF INSTALLING CONTRACTOR'S LOADING  
 PLAN BY STRUCTURAL ENGINEER.

**1 OVERALL ROOF PLAN**  
 S100 SCALE: 1/16" = 1'-0"

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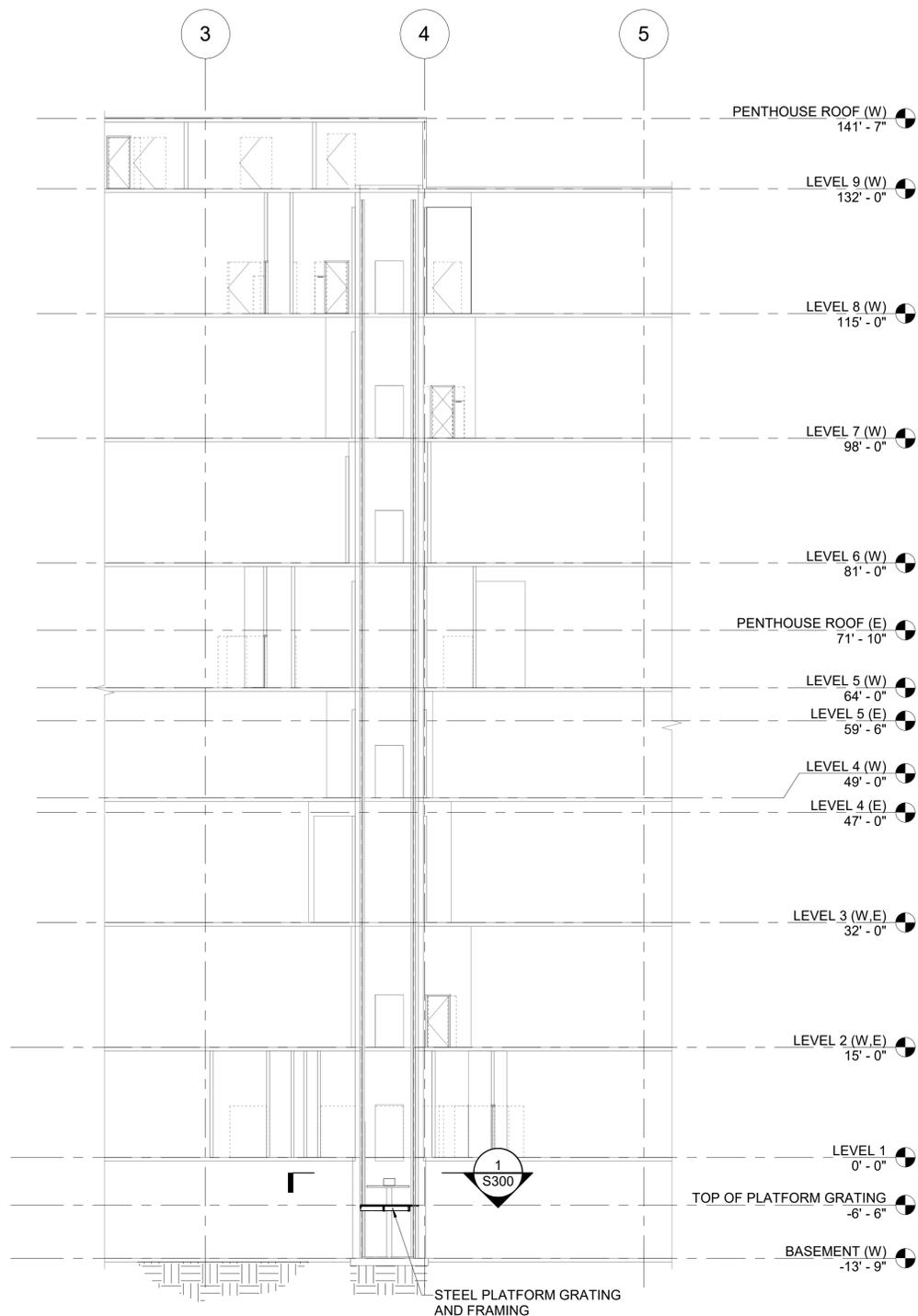
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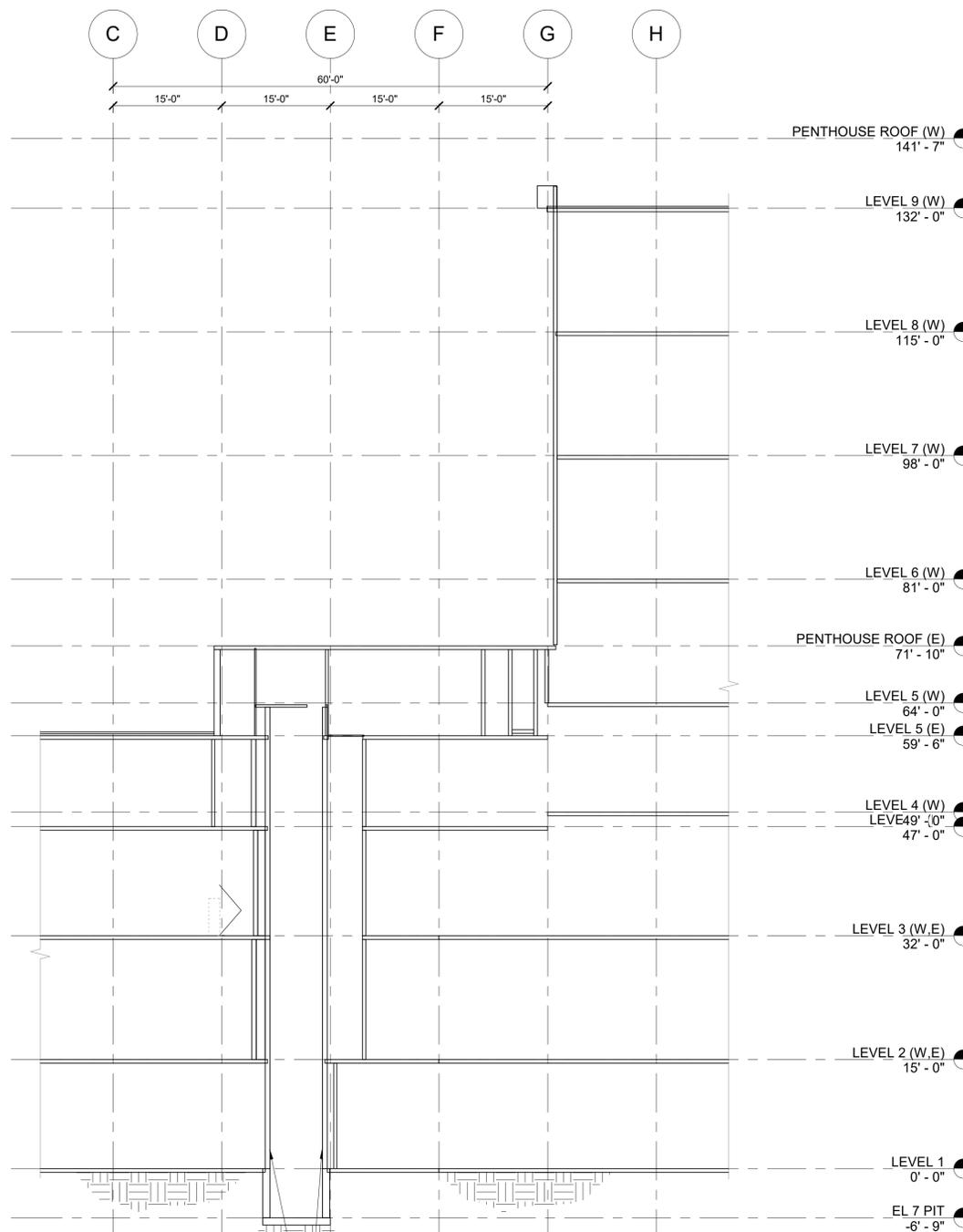
FULL HEIGHT SECTIONS

SHEET NO.

**S200**



**1 ELEVATOR #3 SECTION**  
 S200 SCALE: 3/32" = 1'-0"



**2 ELEVATOR #7 SECTION**  
 S200 SCALE: 3/32" = 1'-0"

VERIFY EXISTING GUARDRAIL SUPPORT ADHESIVE ANCHORS:  
 1. TENSION TEST ALL EXISTING ADHESIVE ANCHORS FOR GUARDRAIL SUPPORT TO DETERMINE IF ANCHORS ARE LOOSE OR ADEQUATE.  
 2. LOAD TEST VALUE = 6,750 LBF  
 3. REPAIR LOOSE ANCHORAGE OF GUARDRAIL SUPPORT SEE DETAIL  
 4. FIELD VERIFY QUANTITY AND LOCATION

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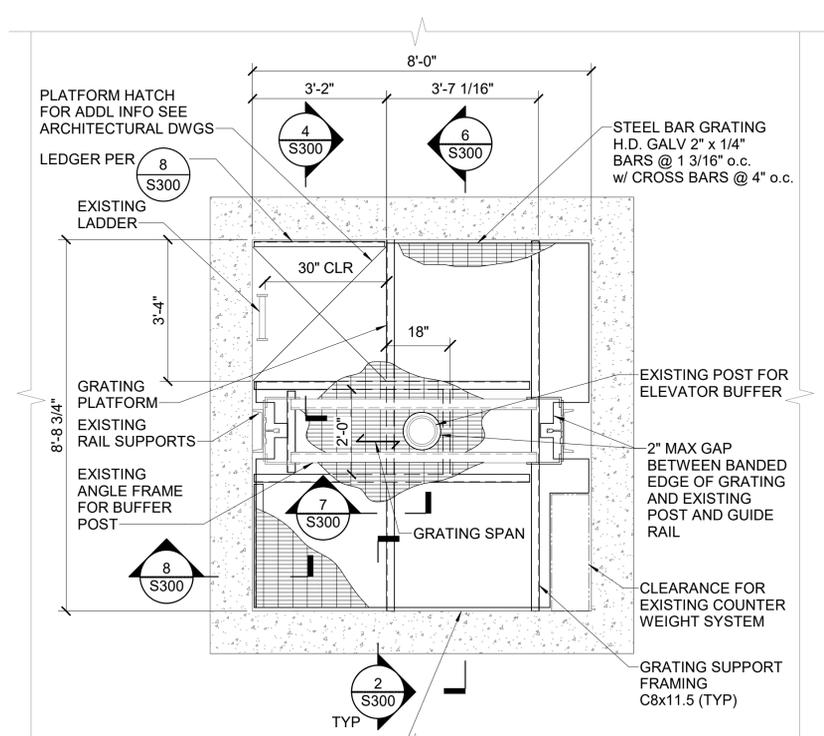
ELEVATOR 3 PLAN

SHEET NO.

**S300**

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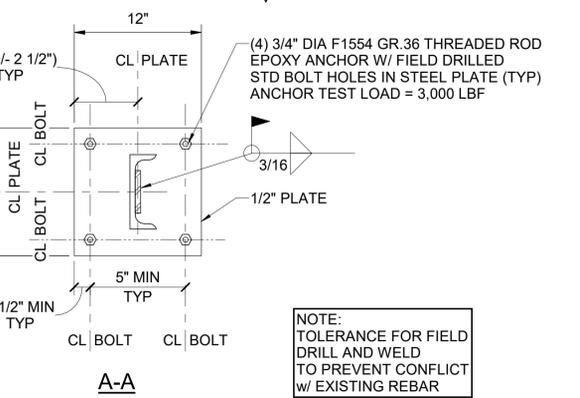
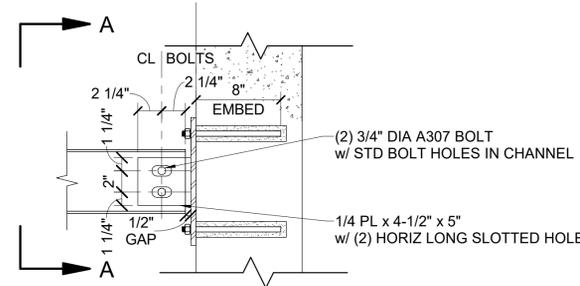
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Jun 03 2022  
SAN MATEO CO. BLDG. INSP. DIV.



NOTE:  
ALL STRUCTURAL STEEL HOT  
DIPPED GALVANIZED

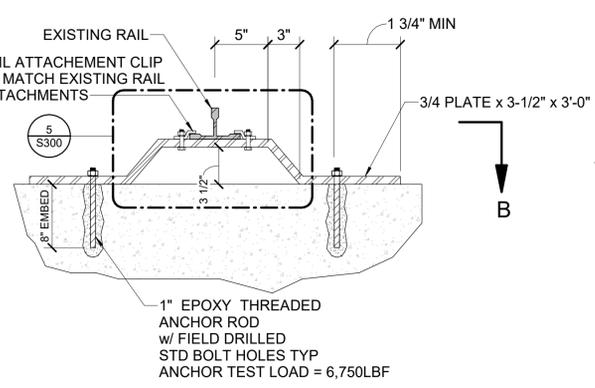
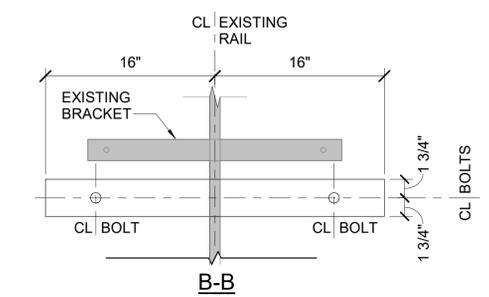
**1 ENLARGED LEVEL 1 PLAN - ELEVATOR NO. 3**  
S300 SCALE: 1/2" = 1'-0"

**GRATING NOTES:**  
A. PROVIDE 2" MAXIMUM CLEARANCE BETWEEN GRATING EDGE AND PASSING THROUGH OBJECTS SUCH AS POST, GUIDE RAIL AND SUPPORT, EXISTING LADDER, EXISTING COUNTER WEIGHT, ETC.  
B. SEAMS IN GRATING PANELS MAY ONLY BE PARALLEL TO GRATING SPAN DIRECTION.



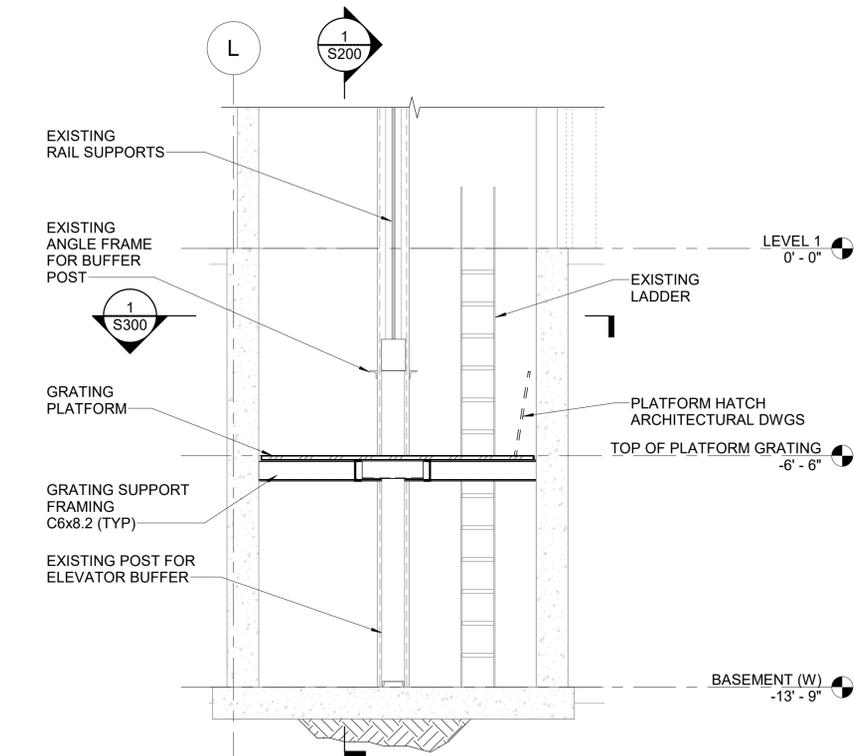
**2 DETAIL**  
S300 SCALE: 1 1/2" = 1'-0"

**4 FRAMING AT HATCH OPENING**  
S300 SCALE: 1 1/2" = 1'-0"

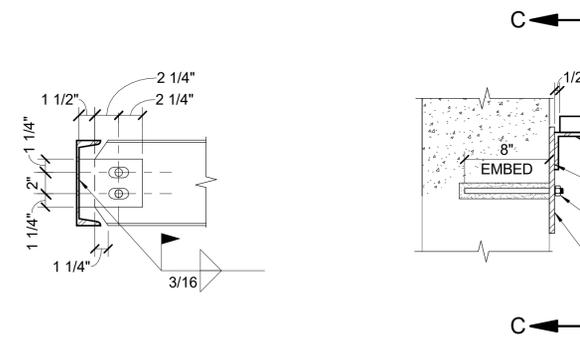


**3 RAIL BRACKET REPAIR DETAIL**  
S300 SCALE: 1 1/2" = 1'-0"

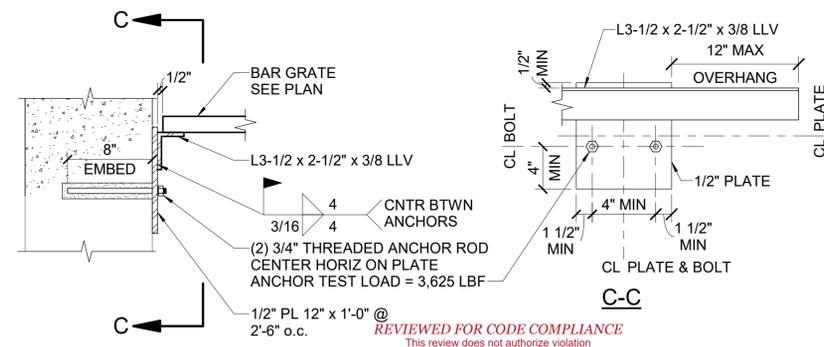
**5 RAIL BRACKET CLAMP DETAIL**  
S300 SCALE: 3" = 1'-0"



**6 SECTION**  
S300 SCALE: 3/8" = 1'-0"



**7 BEAM TO BEAM CONNECTION**  
S300 SCALE: 1 1/2" = 1'-0"



**8 LEDGER**  
S300 SCALE: 1 1/2" = 1'-0"



**HALL OF JUSTICE**  
**Elevator #3 and #7 Modernization**  
 400 COUNTY CENTER  
 REDWOOD CITY, CA 94063

CLIENT  
 County of San Mateo

PROJECT MANAGER

Department of Public Works  
 555 COUNTY CENTER  
 REDWOOD CITY, CA 94063



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SHEET TITLE

MECHANICAL GENERAL SHEET

SHEET NO.

**M001**

**GENERAL NOTES**

- A. THIS CONTRACTOR IS TO PROVIDE ALL LABOR AND MATERIAL NECESSARY TO INSTALL A COMPLETE MECHANICAL SYSTEM AS SHOWN AND SPECIFIED AND IN ACCORDANCE WITH ALL APPLICABLE CODES, RULES AND REGULATIONS. REFER TO PROJECT SPECIFICATIONS FOR FURTHER PROJECT REQUIREMENTS.
- B. THE DESIGN DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED FOR CONSTRUCTION PURPOSES. THIS CONTRACTOR IS TO COORDINATE EXACT EQUIPMENT LOCATIONS AND ROUTING OF DUCTWORK, PIPING, DIFFUSERS, ETC., WITH THE GENERAL CONTRACTOR, OTHER TRADES AND THE BUILDING CONDITIONS. THE ROUTING SHOWN ON THE DRAWINGS WAS USED FOR PRESSURE DROP CALCULATIONS. NOTIFY THE ENGINEER OF SIGNIFICANT INSTALLATION DEVIATIONS.
- C. TESTING, ADJUSTING & BALANCING FOR HVAC
- PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM INCLUDED IN THIS PROJECT, ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE" OR NEBB'S "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING AND BALANCING OF ENVIRONMENTAL SYSTEMS," AND IN THIS SECTION.
  - SET HVAC SYSTEMS PLUS OR MINUS 10 PERCENT OF THE DESIGN FLOW SHOWN.
  - TESTING & BALANCING CONTRACTOR TO MEASURE AND SET ALL AIR AND HYDRONIC SYSTEMS AS SHOWN ON THE DRAWINGS.
  - PROVIDE THE FOLLOWING ADDITIONAL TAB INFORMATION WITHIN THE FINAL REPORT:
    - TESTING AND VERIFICATION OF ALL FIRE AND SMOKE CONTROL DEVICES, INCLUDING EACH FIRE DAMPER, SMOKE DETECTOR, SMOKE DAMPER, COMBINATION FIRE/SMOKE DAMPER, AND DAMPER ACTUATOR.
    - OUTDOOR AIR SUMMARY REPORT INCLUDING A SUMMARY REPORT FOR REVIEW BY THE AUTHORITIES HAVING JURISDICTION THAT LISTS EACH SUPPLY AIR SYSTEM ON THE PROJECT. THE REPORT SHALL INDICATE THE SYSTEM OR EQUIPMENT DESIGNATION, THE SCHEDULED OUTDOOR-AIR FLOW RATE AND THE BALANCED OUTDOOR-AIR FLOW RATE.
  - PREPARE SPECIAL INSPECTION REPORTS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, AS REQUIRED BY THE AFI.
- D. THE CONTRACTOR SHALL FURNISH THE NECESSARY LABOR TO ASSIST THE TAB AGENCY TO COMPLETE ITS WORK.
- E. MOUNT WALL-MOUNTED THERMOSTATS, TEMPERATURE SENSORS, AND OTHER CONTROL DEVICES IN ELECTRICAL OUTLET BOXES, HORIZONTALLY CENTER TO MATCH LIGHTING CONTROLS HEIGHT, BUT NOT MORE THAN 48 INCHES AFF OR LESS THAN 40 INCHES AFF. VERIFY LOCATION OF DEVICES WITH ROOM DETAILS BEFORE INSTALLATION.
- F. HVAC DRAIN AND CONDENSATE PIPING SHALL TERMINATE INDIRECTLY ABOVE AN APPROVED LOCATION WITH AN AIR GAP ABOVE THE FLOOD RIM NOT LESS THAN TWO TIMES THE EFFECTIVE OPENING OF THE PIPE.
- G. PROVIDE SEISMIC BRACING PER DRAWINGS SUBMITTED BY SEISMIC DESIGN ENGINEER. CONTACT MASON INDUSTRIES OR INTERNATIONAL SEISMIC APPLICATION TECHNOLOGIES (ISAT) FOR ENGINEERED DRAWINGS. PROVIDE MECHANICAL ENGINEER ON RECORD WITH SUBMITTALS ON SEISMIC DESIGN DRAWINGS FOR APPROVAL. SEE MECHANICAL DESIGN CRITERIA.
- H. REFRIGERANT PIPING SHALL BE COPPER, TYPE ACR, ANNEALED-TEMPER TUBING AND WROUGHT-COPPER FITTINGS WITH BRAZED JOINTS OR REFRIGERANT LINE KITS FOR NPS 1-1/2 AND SMALLER. REFRIGERANT LINE KITS SHALL BE SOFT-ANNEALED COPPER SUCTION AND LIQUID LINES, FACTORY CLEANED, DRIED, PRESSURIZED AND SEALED. FACTORY-INSULATED SUCTION LINE WITH FLARED FITTINGS AT BOTH ENDS FURNISHED AND FOR USE WITH UNITARY EQUIPMENT. INSTALL PIPING PER ASHRAE 15 AND THE MANUFACTURER'S REQUIREMENTS.
- I. CONDENSATE DRAIN PIPING SHALL BE ASTM B-88, TYPE L OR ASTM B-306, TYPE DWV COPPER WITH WROUGHT-COPPER FITTINGS AND SOLDERED JOINTS, ASTM B-32, LEAD-FREE ALLOY SOLDER WITH FLUSHABLE FLUX. SLOPE HORIZONTAL PIPING AT A MINIMUM 1/8" PER FOOT TOWARDS DRAIN LINE CONNECTION. PROVIDE THREADED CLEANOUT PLUGS AT EACH 90 DEGREE CHANGE OF DIRECTION.
- J. INSTALL PIPE INSULATION CONTINUOUSLY THROUGH PARTITIONS, HANGERS AND AROUND ANCHOR ATTACHMENTS. WHERE VAPOR BARRIER IS INDICATED, SEAL JOINTS, SEAMS AND PENETRATIONS IN INSULATION AT HANGERS, SUPPORTS, ANCHORS AND OTHER PROJECTIONS WITH VAPOR-BARRIER MASTIC. INSTALL INSULATION OVER FITTINGS, VALVES, STRAINERS, FLANGES, UNIONS, AND OTHER SPECIALTIES WITH CONTINUOUS THERMAL AND VAPOR-RETARDER INTEGRITY UNLESS OTHERWISE INDICATED.
- K. INDOOR AND OUTDOOR REFRIGERANT SUCTION PIPING IS TO BE INSULATED WITH 1 INCH THICK FLEXIBLE ELASTOMERIC INSULATION.
- L. INDOOR AIR CONDITIONING CONDENSATE DRAIN PIPING IS TO BE INSULATED WITH CLOSED-CELL FOAM, PREFORMED PIPE INSULATION WITH VAPOR BARRIER JACKET, TYPE I, 3/4 INCH THICK.
- M. PROVIDE ALUMINUM INSULATION JACKET OVER ALL EXTERNALLY INSULATED PIPING EXPOSED TO WEATHER. INSTALL ALUMINUM JACKET WITH ALUMINUM BANDS SPACED EVERY 12 INCHES. DO NOT USE SCREWS TO SECURE ALUMINUM JACKETING.
- N. PROVIDE PVC JACKET OVER ALL INSULATED PIPING EXPOSED TO VIEW WITHIN THE BUILDING.

**MECHANICAL DESIGN CRITERIA**

<b>LOCATION:</b> REDWOOD CITY, CALIFORNIA 20 FT. ELEVATION	<b>SEISMIC RESTRAINT CRITERIA FOR MECHANICAL EQUIPMENT:</b> BUILDING RISK CATEGORY: III SEISMIC DESIGN CATEGORY: E COMPONENT IMPORTANCE FACTOR (APPLIES TO ALL MECHANICAL EQUIPMENT UNLESS NOTED OTHERWISE): I <sub>p</sub> =1.5
<b>OUTDOOR DESIGN TEMPERATURES:</b> SUMMER: 115°F DRY BULB/78°F WET BULB WINTER: 34°F DRY BULB	<b>WIND RESTRAINT CRITERIA FOR EXTERIOR MOUNTED MECHANICAL EQUIPMENT:</b> BASIC WIND SPEED: 98 MPH BUILDING CLASSIFICATION CATEGORY: III MINIMUM 10 LB/SF MULTIPLIED BY THE MAXIMUM AREA OF THE HVAC COMPONENT PROJECTED ON A VERTICAL PLANE THAT IS NORMAL TO THE WIND DIRECTION AND 45 DEGREES ON EITHER SIDE OF NORMAL.
<b>INDOOR DESIGN TEMPERATURES:</b> (THE 2019 CALIFORNIA ENERGY CONSERVATION CODE REQUIRES A MINIMUM COOLING TEMPERATURE OF 75°F AND A MAXIMUM HEATING TEMPERATURE OF 72°F)	
<b>COOLING</b> 85°F <b>HEATING</b> 60°F <b>SPACE TYPE</b> ELEVATOR MACHINE ROOMS	
<b>CODES:</b> 2019 CALIFORNIA BUILDING CODE W/ AMENDMENTS 2019 CALIFORNIA PLUMBING CODE W/ AMENDMENTS 2019 CALIFORNIA FIRE CODE W/ AMENDMENTS 2019 CALIFORNIA MECHANICAL CODE W/ AMENDMENTS 2019 CALIFORNIA FUEL GAS CODE W/ AMENDMENTS 2019 CALIFORNIA ENERGY CODE W/ AMENDMENTS	

**MECHANICAL SHEET INDEX**

SHEET NUMBER	SHEET TITLE
M001	MECHANICAL GENERAL SHEET
M250	OVERALL MECHANICAL PLAN - 5TH FLOOR
M251	PARTIAL MECHANICAL PLAN - 5TH FLOOR
M280	OVERALL MECHANICAL PLAN - 8TH FLOOR
M290	OVERALL MECHANICAL PLAN - PENTHOUSE
M291	PARTIAL MECHANICAL PLAN - 8TH FLOOR AND PENTHOUSE
M601	MECHANICAL DETAILS
M701	MECHANICAL SCHEDULES

**MECHANICAL LEGEND**

SYMBOL	ABBR	DESCRIPTION
	CD D	CONDENSATE DRAIN DRAIN
		BALL VALVE
	DN	RISER DOWN
	UP	RISER UP
		CAP
		THERMOSTAT / TEMPERATURE SENSOR
	POC	POINT OF CONNECTION

**ABBREVIATIONS**

#	NUMBER	HORZ	HORIZONTAL
#/P###	DETAIL # ON SHEET P##	HP	HORSEPOWER
°F	DEGREES FAHRENHEIT	HR	HOUR
Δ	DELTA (CHANGE)	HTR	HEATER
%	PERCENTAGE	HW	HOT WATER
(D)	DEMOLITION	HZ	HERTZ
(E)	EXISTING	IDF	INDOOR FAN
IN	NEW	IN	INCH
ABSORP	ABSORPTION	INLV	INTEGRATED PART LOAD VALUE
AD	ACCESS DOOR	IN HG	INCHES OF MERCURY
AF	ABOVE FINISHED FLOOR	IN WG	INCHES OF WATER GAGE
AFG	ABOVE FINISHED GRADE	KW	KILOWATTS
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	L	LENGTH
AIC	AMPERES INTERRUPTING CAPACITY	LAT	LEAVING AIR TEMPERATURE
AMB	AMBIENT	LBS	POUNDS
ALUM	ALUMINUM	LVG	LEAVING WATER TEMPERATURE
AP	ACCESS PANEL	LWT	LEAVING WATER TEMPERATURE
APD	AIR PRESSURE DROP	MAX	MAXIMUM
AV	AUTOMATIC AIR VENT	MBH	THOUSAND BTU PER HOUR
BARO	BAROMETRIC	MCA	MINIMUM CURRENT AMPACITY
BAS	BUILDING AUTOMATION SYSTEM	MCC	MOTOR CONTROL CENTER
BDD	BACKDRAFT DAMPER	MECH	MECHANICAL
BFF	BELOW FINISHED FLOOR	MIN	MINIMUM
BFG	BELOW FINISHED GRADE	MOC	MAXIMUM OVER CURRENT PROTECTION
BHP	BRAKE HORSEPOWER	MTG	MOUNTING
BLDG	BUILDING	MV	MANUAL AIR VENT
BTU	BRITISH THERMAL UNIT PER HOUR	NC	NORMALLY CLOSED
BTUH	BRITISH THERMAL UNIT PER HOUR	NO	NORMALLY OPEN
CAP	CAPACITY	NO	NOMINAL
CF	CUBIC FEET PER HOUR	NPSH	NET POSITIVE SUCTION HEAD
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
CHW	CHILLED WATER	OB	OPPOSED BLADE DAMPER
CO	CARBON MONOXIDE	OCC	OCCUPANCY
CO2	CARBON DIOXIDE	ODF	OUTDOOR FAN
COMB	COMBUSTION	OPER	OPERATING
CMR	COMPRESSOR	OSA	OUTSIDE AIR
CONFIG	CONFIGURATION	PD	PRESSURE DROP
CONN	CONNECTION	PH	PHASE
CTRL	CONTROL	PPM	PARTS PER MILLION
D	DEPTH	PRESS	PRESSURE
DIA OR Ø	DIAMETER	PSI	POUNDS PER SQUARE INC
DB	DECIBELS	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
DB	DRY BULB	PSIG	POUNDS PER SQUARE INCH GAGE
DIFF	DIFFERENTIAL	QTY	QUANTITY
DIST	DISTANCE	RA	RETURN AIR
DN	DOWN	RECIRC	RECIRCULATING
DWG	DRAWING(S)	REFRIG	REFRIGERATION
DX	DIRECT EXPANSION	REGEN	REGENERATION
EA	EXHAUST AIR	REQD	REQUIRED
EAT	ENTERING AIR TEMPERATURE	RH	RELATIVE HUMIDITY
EDR	EQUIVALENT DIRECT RADIATION	RPM	REVOLUTIONS PER MINUTE
EER	ENERGY EFFICIENCY RATIO	SA	SUPPLY AIR
EFF	EFFICIENCY	SD	SMOKE DETECTOR
ELEV	ELEVATION	SFD	SMOKE AND FIRE DAMPER
ENT	ENTERING	S&R	SUPPLY AND RETURN
ESP	EXTERNAL STATIC PRESSURE	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EVAP	EVAPORATIVE	SENS	SENSIBLE
EWT	ENTERING WATER TEMPERATURE	SF	SQUARE FEET OR SQUARE FOOT
EXH	EXHAUST	SQ IN	SQUARE INCH
EXT	EXTERNAL	SS	STAINLESS STEEL
FD	FIRE DAMPER	SYS	SYSTEM
FF	FRICTION FACTOR	TEMP	TEMPERATURE
FF	FINISHED FLOOR	TSP	TOTAL STATIC PRESSURE
FLA	FULL LOAD AMPS	FLA	THERMOSTAT
FLEX	FLEXIBLE	TYP	TYPICAL
FPI	FINS PER INCH	UNO	UNLESS NOTED OTHERWISE
FPM	FEET PER MINUTE	V	VOLTS
FPS	FEET PER SECOND	VFD	VARIABLE FREQUENCY DRIVE
FS	FLOW SWITCH	VD	VOLUME DAMPER
FT	FEET OR FOOT	VEL	VELOCITY
GA	GAGE	W	WIDTH
GAL	GALLONS	W	WATTS
GPH	GALLONS PER HOUR	W	WITH
GPM	GALLONS PER MINUTE	W/O	WITHOUT
GRS	GRAINS	WB	WET BULB
GSM	GALVANIZED SHEET METAL	WPD	WATER PRESSURE DROP
H	HEIGHT	WT	WEIGHT
H2S	HYDROGEN SULFIDE		

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**Elevator #3 and #7 Modernization**  
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 REDWOOD CITY, CA 94063

CLIENT  
 County of San Mateo

PROJECT MANAGER

Department of Public Works  
 555 COUNTY CENTER  
 REDWOOD CITY, CA 94063



VERTICAL TRANSPORTATION EXCELLENCE  
 Elevator and Escalator Consulting  
 a division of Gannett Fleming, Inc.  
 3838 N. Central Avenue, Suite 1900  
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 ARIZONA, INCORPORATED  
 2333 West Northern Avenue Telephone 602.249.1325  
 Phoenix, Arizona 85021 Facsimile 602.246.3376  
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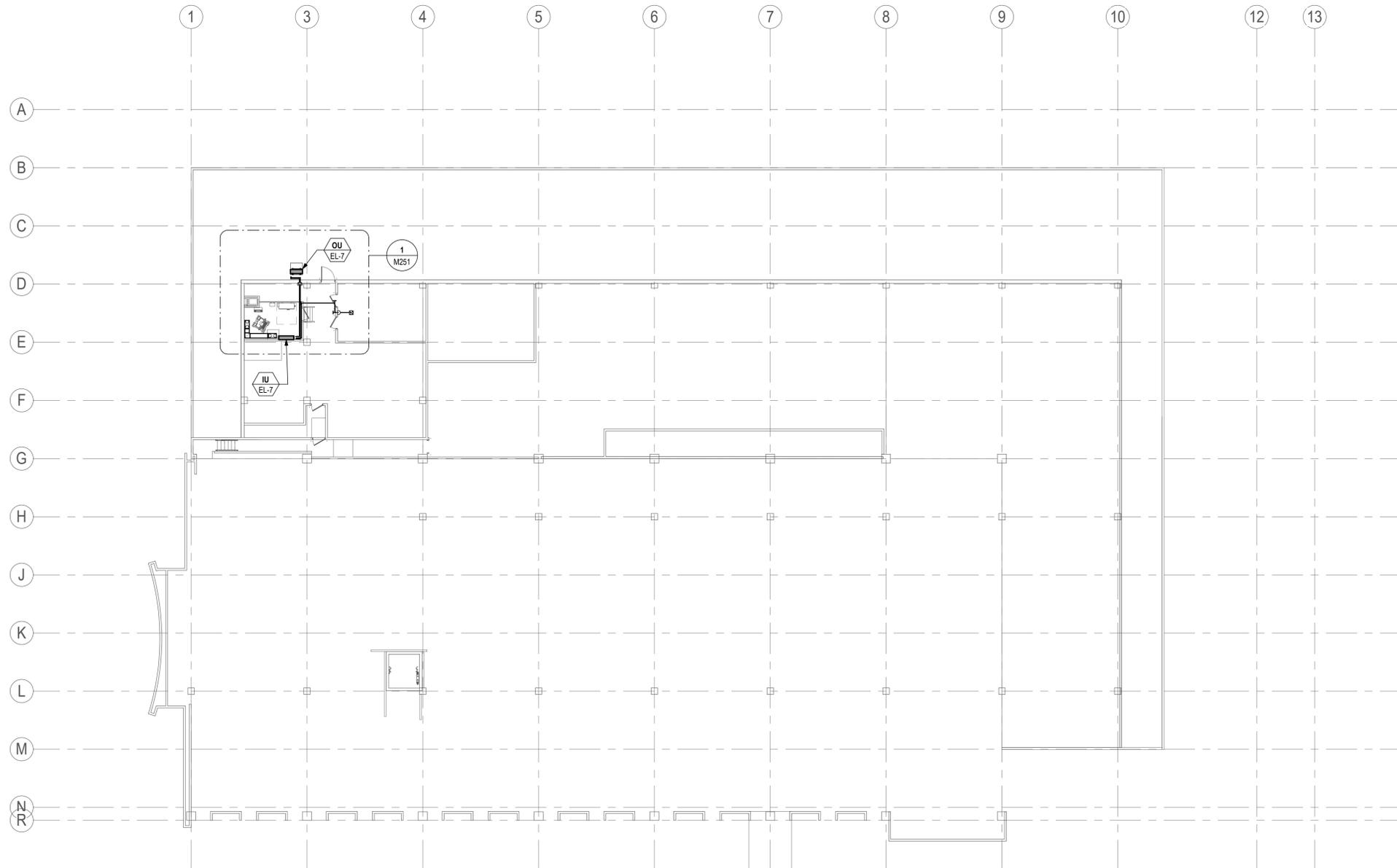
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SHEET TITLE

OVERALL MECHANICAL PLAN -  
 5TH FLOOR

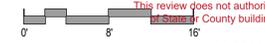
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**M250**



**OVERALL MECHANICAL PLAN - 5TH FLOOR**  
 1/16" = 1'-0"

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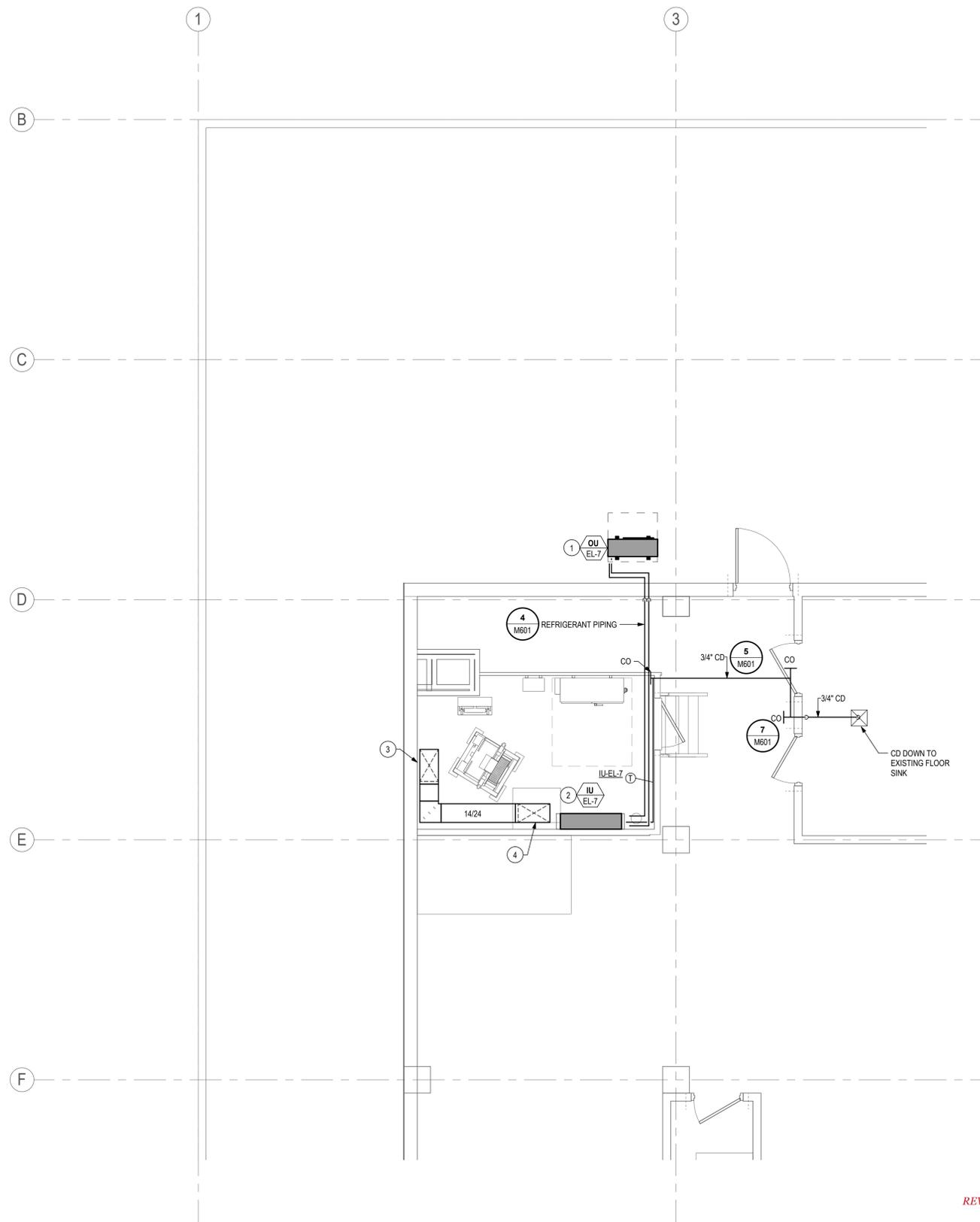
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**KEYED NOTES (#)**

1. NEW OUTDOOR UNIT MOUNTED ON EXISTING EQUIPMENT CURB. SEE DETAIL 2 ON SHEET M7.1.
2. NEW INDOOR UNIT MOUNTED ON WALL. SEE DETAIL 1 ON SHEET M7.1.
3. PROVIDE FULL SIZE, 16" DEEP PLENUM ON EXISTING LOUVER. NEW DUCTWORK DOWN TO PLENUM.
4. CONNECT NEW DUCTWORK TO GRATING OVER ELEVATOR SHAFT.



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SHEET TITLE

PARTIAL MECHANICAL PLAN - 5TH FLOOR

SHEET NO.

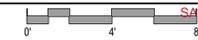
**M251**

**PARTIAL MECHANICAL PLAN - 5TH FLOOR**  
 1/4" = 1'-0"

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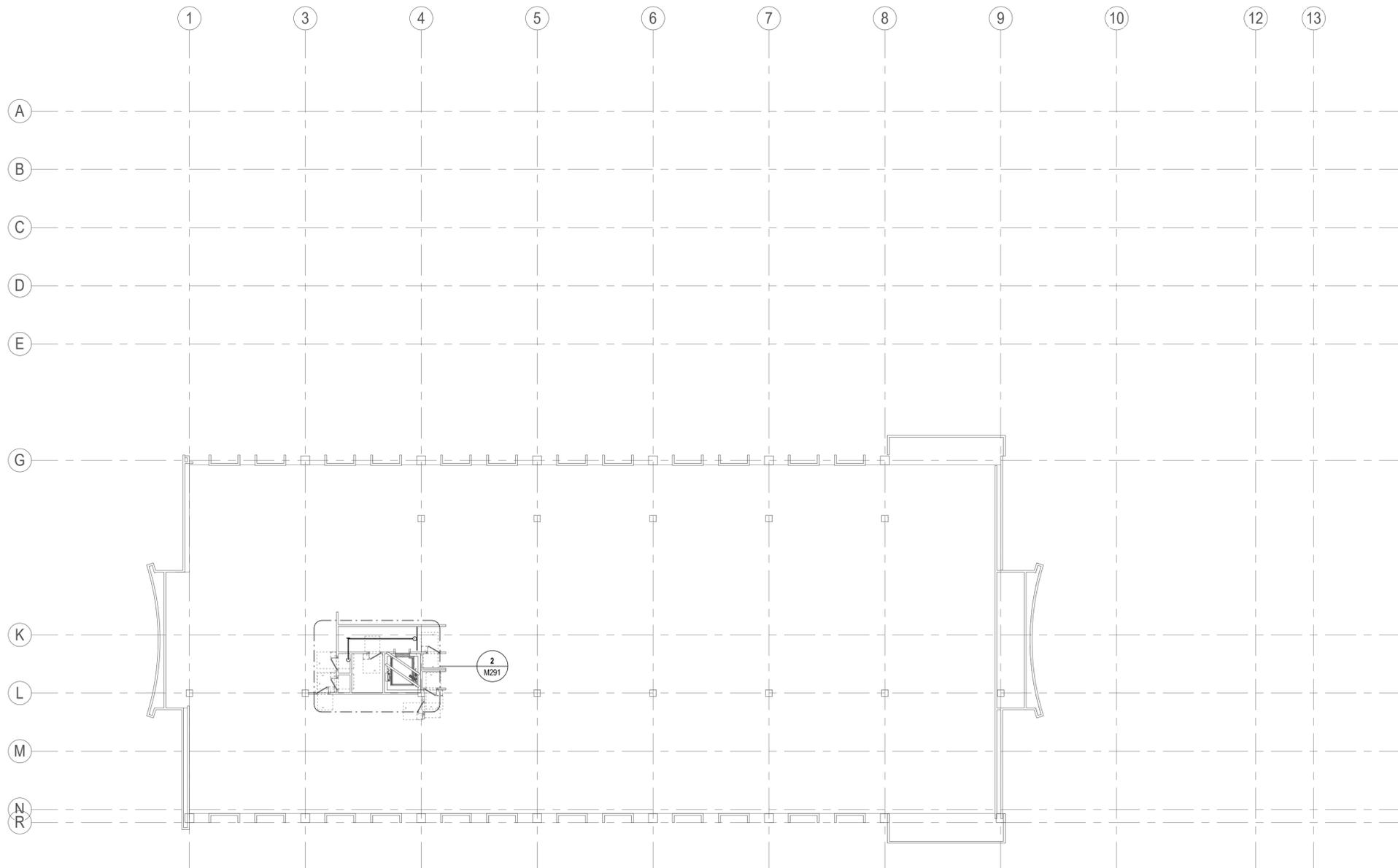
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SHEET TITLE

OVERALL MECHANICAL PLAN -  
 8TH FLOOR

SHEET NO.

**M280**



**OVERALL MECHANICAL PLAN - 8TH FLOOR**

1/16" = 1'-0"



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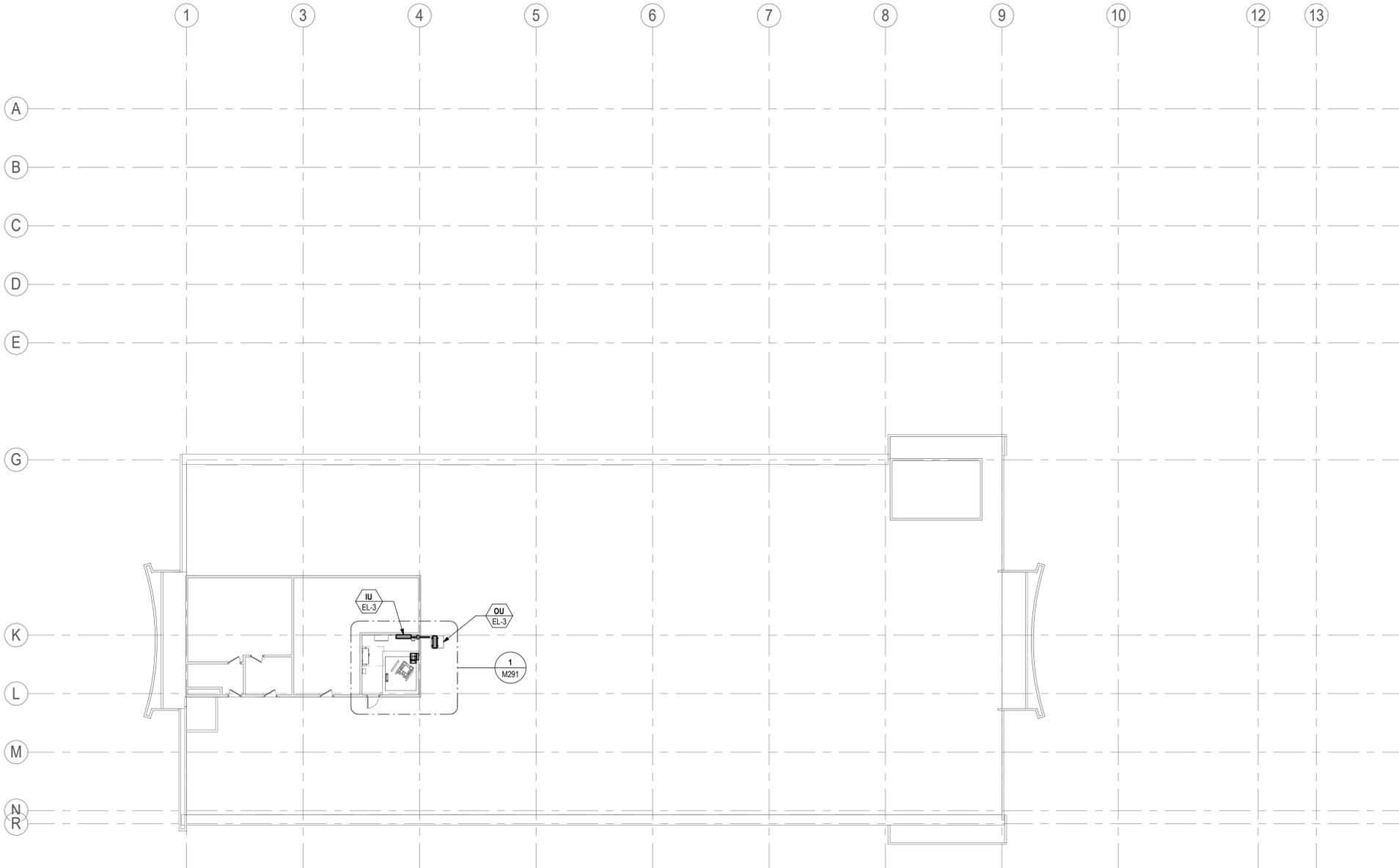
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SHEET TITLE

OVERALL MECHANICAL PLAN - PENTHOUSE

SHEET NO.

**M290**



**OVERALL MECHANICAL PLAN - PENTHOUSE**

1/16" = 1'-0"

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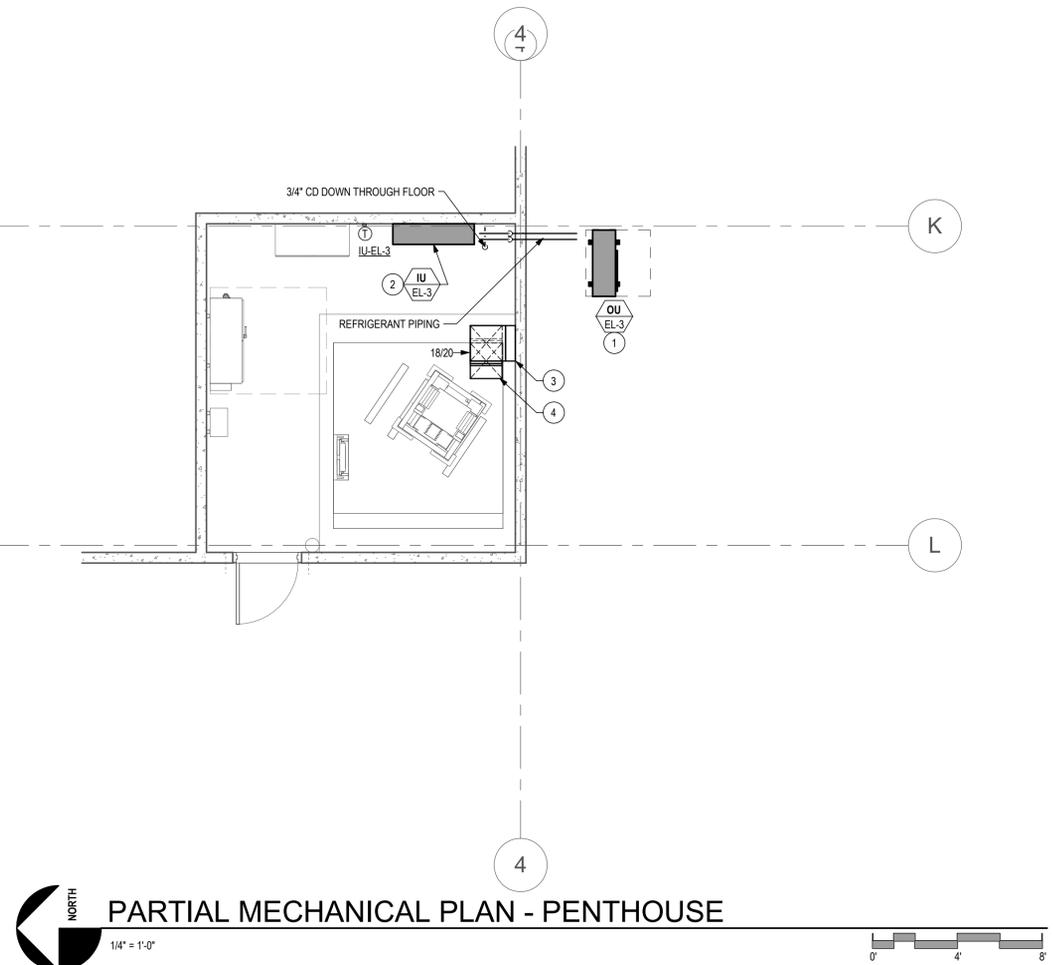
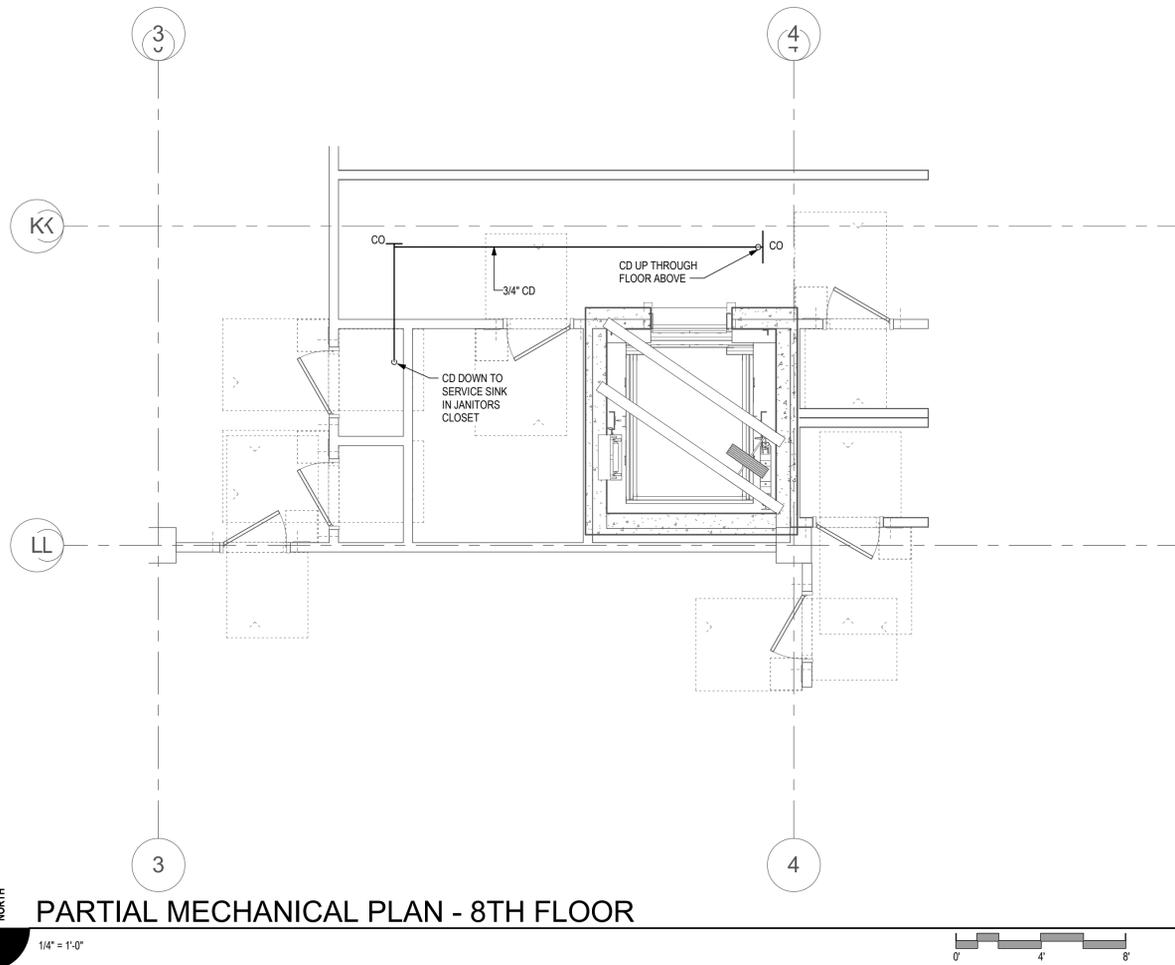
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**KEYED NOTES (Ⓢ)**

1. NEW OUTDOOR UNIT MOUNTED ON EXISTING EQUIPMENT CURB. SEE DETAIL 2 ON SHEET M7.1.
2. NEW INDOOR UNIT MOUNTED ON WALL. SEE DETAIL 1 ON SHEET M7.1.
3. CONNECT NEW DUCTWORK TO EXISTING LOUVER. PROVIDE BLANK-OFF PANEL FOR UNUSED AREA.
4. CONNECT NEW DUCTWORK TO GRATING OVER ELEVATOR SHAFT.



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SHEET TITLE

**PARTIAL MECHANICAL PLAN - 8TH FLOOR AND PENTHOUSE**

SHEET NO.

**M291**

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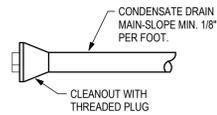
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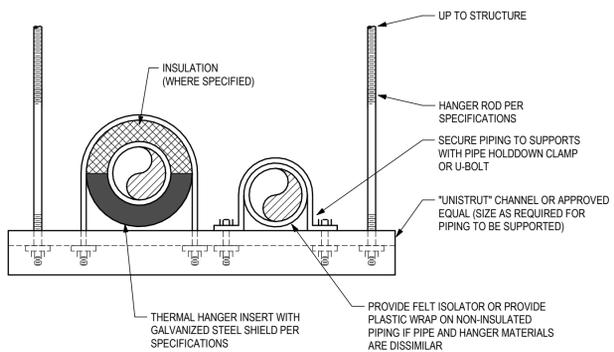
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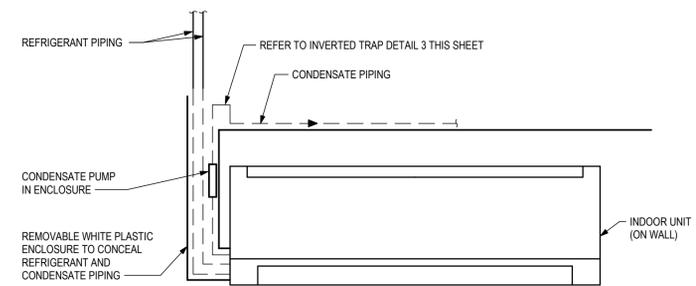
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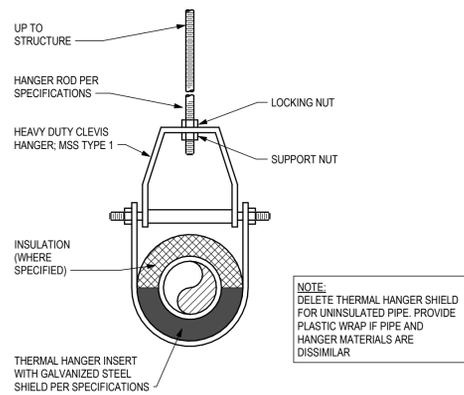
**7** CONDENSATE CLEANOUT DETAIL  
N.T.S.



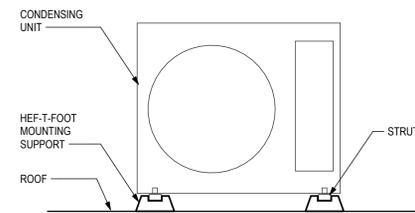
**4** TRAPEZE HANGER DETAIL  
N.T.S.



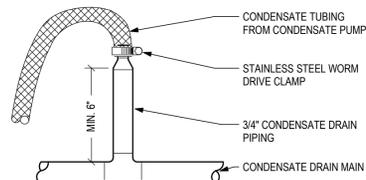
**1** INDOOR UNIT DETAIL  
N.T.S.



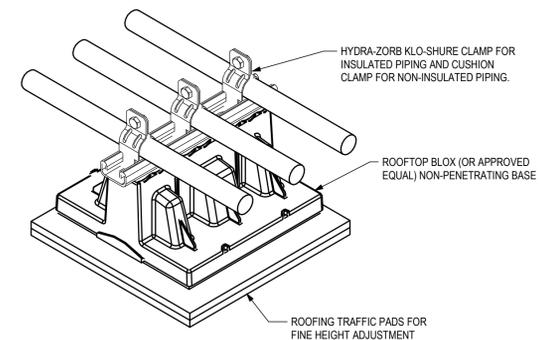
**5** CLEVIS HANGER DETAIL  
N.T.S.



**2** CONDENSING UNIT MOUNTING DETAIL  
N.T.S.



**6** INVERTED TRAP DETAIL  
N.T.S.



**3** ROOF PIPE SUPPORT DETAIL  
N.T.S.

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CLIENT  
County of San Mateo

PROJECT MANAGER

Department of Public Works  
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REDWOOD CITY, CA 94063



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MECHANICAL DETAILS

SHEET NO.

**M601**

## MINI SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE

INDOOR UNIT																	OUTDOOR UNIT										ELEC PRIMARY CONNECTION LOCATION	REMARKS
MARK	TAG	MANUFACTURER	MODEL	AIRFLOW (CFM)	OSA (CFM)	MIN SEER (BTUH/W)	MIN GROSS COOLING CAPACITIES				ELECTRICAL				WEIGHT (LBS)	MARK	MODEL	REFRIG TYPE	ELECTRICAL				WEIGHT (LBS)					
							EAT (°F)	WB	DB	TOTAL (MBH)	SENS (MBH)	FLA	MCA	MOCP					V/PH	MAX FLA	MCA	MOCP		V/PH				
							DB	WB	DB	TOTAL (MBH)	SENS (MBH)	FLA	MCA	MOCP	V/PH				CMPR	ODF	TOTAL	MCA	MOCP	V/PH				
IU	EL-3	Mitsubishi Electric	PKA-A24KA7	800	N/A	21	80	67	95	24	24	0.36	1.0	15	208/1	50	OU-EL-3	PUY-A24NH47-BS	R-410A	7	0.4	7.4	19	26	208/1	160	OUTDOOR UNIT	INDOOR UNIT POWERED AND CONTROLLED BY OUTDOOR UNIT. PROVIDE WITH WIRED THERMOSTAT, SEACOAST PROTECTION, BACNET INTERFACE
IU	EL-7	Mitsubishi Electric	PKA-A24KA7	800	N/A	21	80	67	95	24	24	0.36	1.0	15	208/1	50	OU-EL-7	PUY-A24NH47-BS	R-410A	7	0.4	7.4	19	26	208/1	160	OUTDOOR UNIT	INDOOR UNIT POWERED AND CONTROLLED BY OUTDOOR UNIT. PROVIDE WITH WIRED THERMOSTAT, SEACOAST PROTECTION, BACNET INTERFACE



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**MECHANICAL SCHEDULES**

SHEET NO.

**M701**

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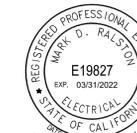
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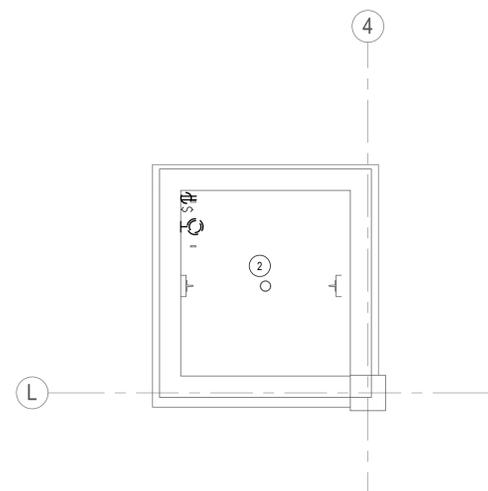
ELECTRICAL DEMOLITION PLANS -  
 ELEVATOR #3  
 SHEET NO.  
**E101**

**KEYED NOTES (#)**

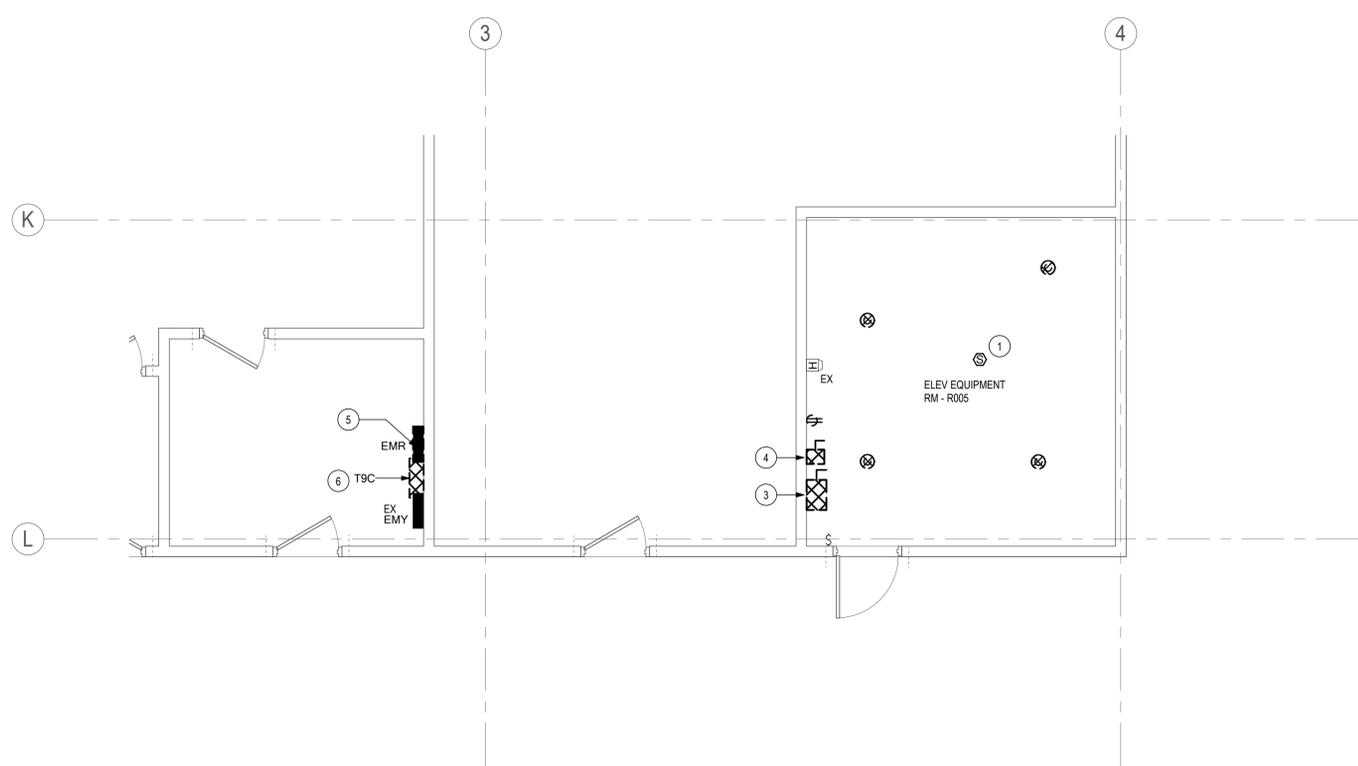
1. REPLACE EXISTING RECEPTACLE, FIRE ALARM INITIATION DEVICES, SWITCH AND LIGHTING FIXTURES IN ELEVATOR MACHINE ROOM AS SHOWN ON NEW WORK PLANS. REMOVE CONDUIT AND CONDUCTORS BACK TO NEAREST SOURCE.
2. REPLACE EXISTING RECEPTACLE, SWITCH AND LIGHTING FIXTURE IN ELEVATOR PIT AS SHOWN ON NEW WORK PLANS. REMOVE CONDUCTORS BACK TO NEAREST SOURCE.
3. REPLACE EXISTING ELEVATOR DISCONNECT AS SHOWN ON NEW WORK PLANS. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
4. DISCONNECT EXISTING CAB LIGHTING CIRCUIT. REPLACE EXISTING ELEVATOR CAB LIGHTING DISCONNECT AS SHOWN ON NEW WORK PLANS. REMOVE CONDUIT AND CONDUCTORS BACK TO NEAREST SOURCE.
5. REPLACE EXISTING PANEL AS SHOWN ON NEW WORK PLANS.
6. REPLACE EXISTING TRANSFORMER AS SHOWN ON NEW WORK PLANS.

**SHEET NOTES**

- A. ALL EQUIPMENT, DEVICES AND FIXTURES SHOWN ON THIS SHEET ARE EXISTING TO BE REMOVED UNLESS NOTED OTHERWISE.
- B. ALL EXISTING SYSTEMS ARE TO REMAIN IN OPERATION DURING CONSTRUCTION. COORDINATE ALL SYSTEM SHUTDOWNS WITH THE OWNER.



**ELECTRICAL DEMOLITION PLAN - PIT LEVEL - ELEVATOR #3**  
 1/4" = 1'-0"  
 0 4 8



**ELECTRICAL DEMOLITION PLAN - PENTHOUSE - ELEVATOR #3**  
 1/4" = 1'-0"  
 0 4 8

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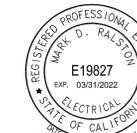
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SHEET TITLE

ELECTRICAL DEMOLITION PLANS -  
 ELEVATOR #7

SHEET NO.

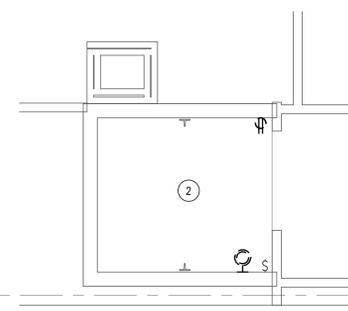
**E102**

**KEYED NOTES (#)**

1. REPLACE EXISTING RECEPTACLES, FIRE ALARM DEVICES, SWITCH AND LIGHT FIXTURES IN ELEVATOR MACHINE ROOM AS SHOWN ON NEW WORK PLANS. REMOVE CONDUIT AND CONDUCTORS BACK TO NEAREST SOURCE
2. REPLACE EXISTING RECEPTACLE, SWITCH AND LIGHT FIXTURE IN ELEVATOR PIT AS SHOWN ON NEW WORK PLANS. REMOVE CONDUCTORS BACK TO NEAREST SOURCE.
3. REPLACE EXISTING ELEVATOR DISCONNECT AS SHOWN ON NEW WORK PLANS. REMOVE CONDUCTORS BACK TO SOURCE.
4. DISCONNECT EXISTING CAB LIGHTING CIRCUIT. REMOVE CONDUIT AND CONDUCTORS BACK TO NEAREST SOURCE.
5. REPLACE EXISTING PANEL AS SHOWN ON NEW WORK PLANS.
6. REPLACE EXISTING ATS AS SHOWN ON NEW WORK PLANS.

**SHEET NOTES**

- A. ALL EQUIPMENT, DEVICES AND FIXTURES SHOWN ON THIS SHEET ARE EXISTING TO BE REMOVED UNLESS NOTED OTHERWISE.
- B. ALL EXISTING SYSTEMS ARE TO REMAIN IN OPERATION DURING CONSTRUCTION. COORDINATE ALL SYSTEM SHUTDOWNS WITH THE OWNER.



E

**ELECTRICAL DEMOLITION PLAN -  
 PIT LEVEL - ELEVATOR #7**

1/4" = 1'-0"



D

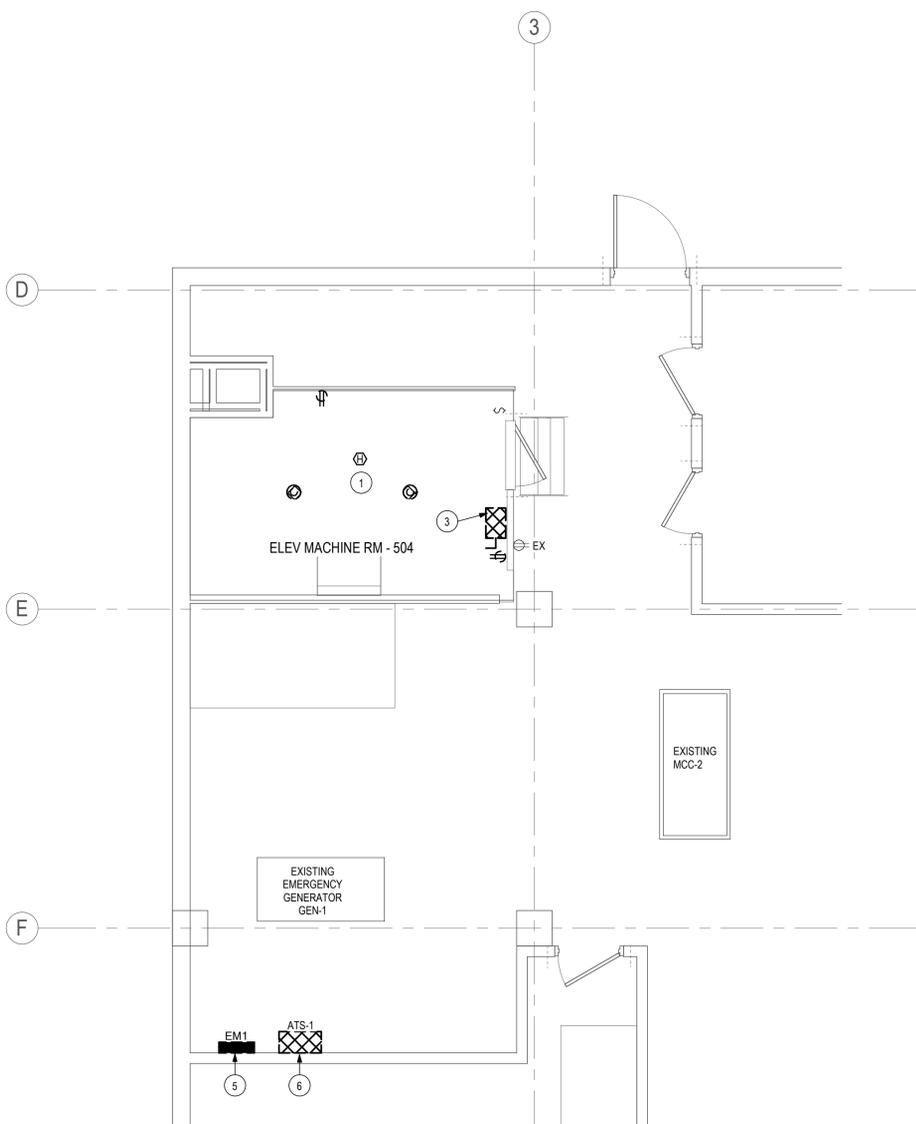
E

E

NORTH

**ELECTRICAL DEMOLITION PLAN -  
 3RD FLOOR - ELEVATOR #7**

1/4" = 1'-0"



D

E

F



**ELECTRICAL DEMOLITION PLAN - 5TH FLOOR - ELEVATOR #7**

1/4" = 1'-0"



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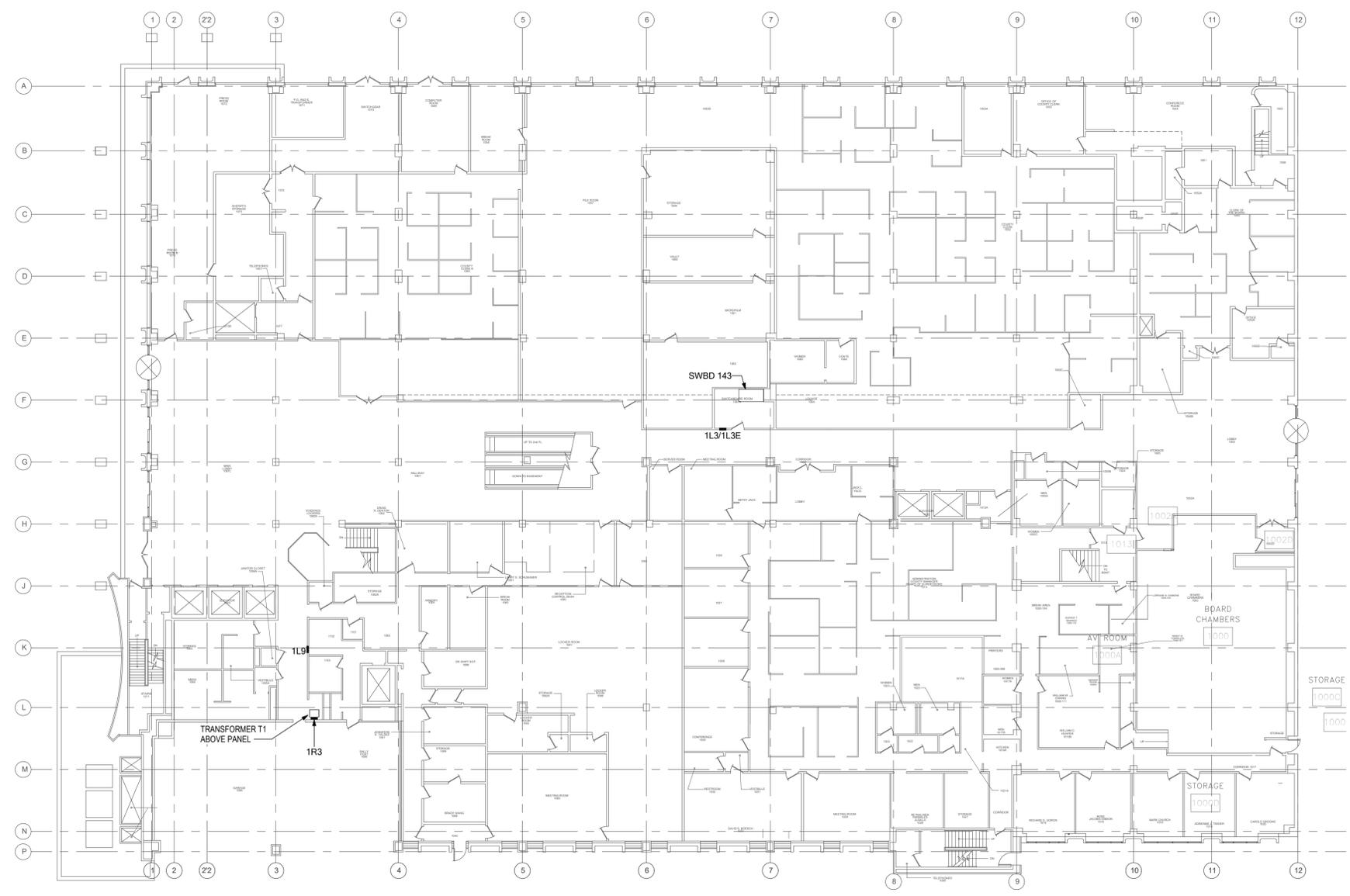
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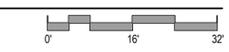
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**SHEET NOTES**

A. ALL EQUIPMENT SHOWN SHALL BE EXISTING TO REMAIN AS IS.



**ELECTRICAL PLAN - FIRST FLOOR - EQUIPMENT LOCATION PLAN**  
 1/16" = 1'-0"



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**ELECTRICAL OVERALL PLAN - 1ST FLOOR**  
 SHEET NO.  
**E201**



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**ELECTRICAL PLANS - BASEMENT AND FIRST FLOOR**

SHEET NO.

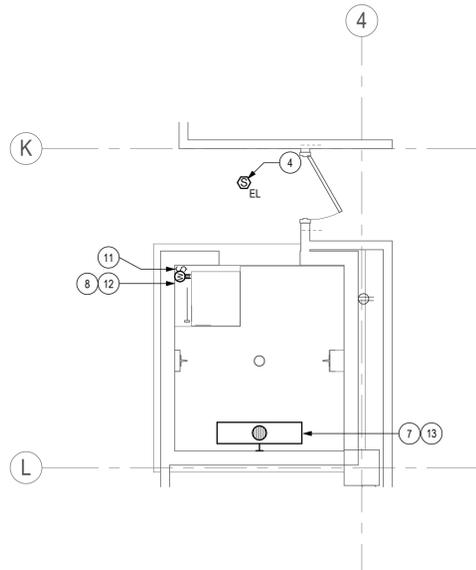
**E202**

**KEYED NOTES (#)**

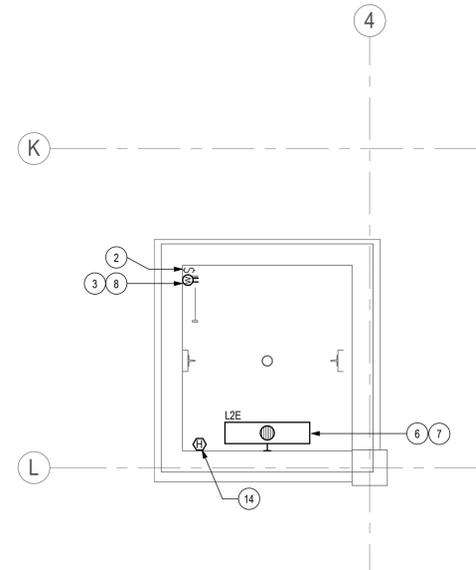
1. MOUNT LIGHTING FIXTURE AT 9'-0" AFF TO BOTTOM OF FIXTURE FROM PIT LEVEL.
2. MOUNT LIGHTING SWITCH AT 48" AFF FROM PIT LEVEL.
3. MOUNT RECEPTACLE +54" AFF FROM PIT LEVEL.
4. SMOKE DETECTOR PROGRAMMED FOR ELEVATOR RECALL PROVIDE AT EACH LEVEL (BASEMENT THROUGH EIGHTH FLOOR).
5. SMOKE DETECTOR PROGRAMMED FOR ELEVATOR RECALL PROVIDED AT EACH LEVEL (GROUND TO 4TH FLOOR).
6. MOUNT LIGHTING FIXTURE AT 6'-0" ABOVE PIT LEVEL TO BOTTOM OF FIXTURE.
7. CIRCUIT NEW LIGHTING FIXTURE TO EXISTING ELEV PIT LIGHTING CIRCUIT (1R3-7). UTILIZE EXISTING CONDUIT WHERE POSSIBLE AND EXTEND AS NECESSARY.
8. CIRCUIT NEW RECEPTACLE TO EXISTING ELEV PIT RECEPTACLE CIRCUIT (1R3-9). UTILIZE EXISTING CONDUIT WHERE POSSIBLE AND EXTEND AS NECESSARY.
9. CIRCUIT NEW LIGHTING FIXTURE TO EXISTING ELEV PIT LIGHTING CIRCUIT (1L3E-9). UTILIZE EXISTING CONDUIT WHERE POSSIBLE AND EXTEND AS NECESSARY.
10. CIRCUIT NEW RECEPTACLE TO EXISTING ELEV PIT RECEPTACLE CIRCUIT (1L3E-7). UTILIZE EXISTING CONDUIT WHERE POSSIBLE AND EXTEND AS NECESSARY.
11. MOUNT LIGHTING SWITCH AT 44" AFF AT BASEMENT FLOOR LEVEL.
12. MOUNT RECEPTACLE +18" AFF ABOVE GRATE LEVEL.
13. MOUNT LIGHTING FIXTURE AT 9'-0" ABOVE GRATE LEVEL TO BOTTOM OF FIXTURE.
14. HEAT DETECTOR PROGRAMMED FOR ELEVATOR SHUNT-TRIP. LOCATED IN ELEVATOR SHAFT ADJACENT (WITHIN 24") TO EACH FIRE SPRINKLER HEAD (WHERE PRESENT).

**SHEET NOTES**

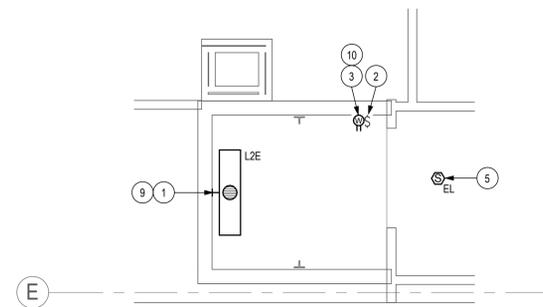
- ALL EXISTING SYSTEMS ARE TO REMAIN IN OPERATION DURING CONSTRUCTION. COORDINATE ALL SYSTEM SHUTDOWNS WITH THE OWNER.
- CONNECT NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM SYSTEM. NEW DEVICES SHALL MATCH EXISTING.



**ELECTRICAL PLAN - GRATING LEVEL - ELEVATOR #3**  
 1/4" = 1'-0"



**ELECTRICAL PLAN - PIT LEVEL - ELEVATOR #3**  
 1/4" = 1'-0"



**ELECTRICAL PLAN - PIT LEVEL - ELEVATOR #7**  
 1/4" = 1'-0"



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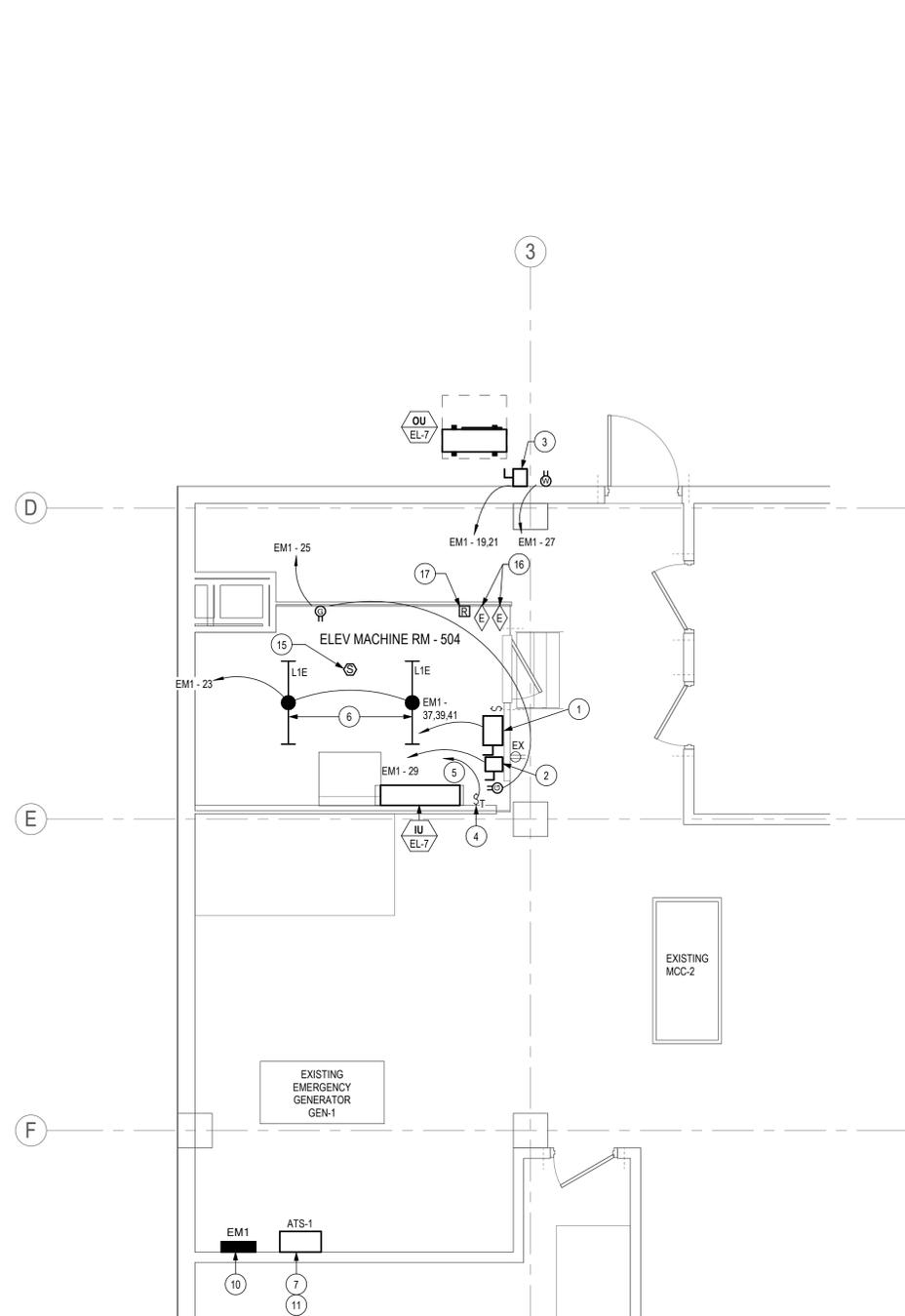
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**KEYED NOTES (#)**

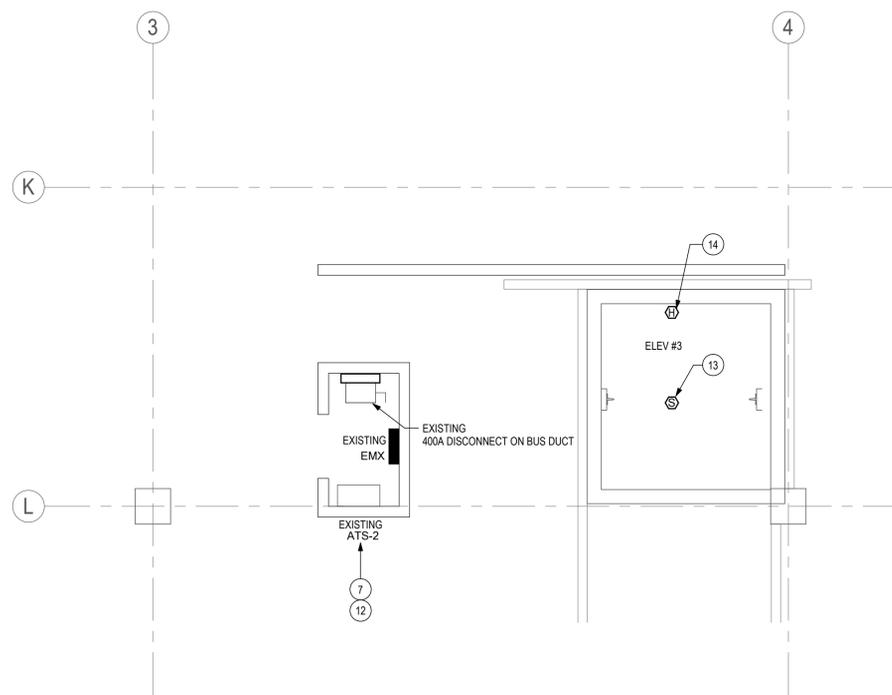
- 208V, 3PH CONNECTION TO ELEVATOR CONTROLLER VIA FUSIBLE DISCONNECT. PROVIDE NEW CIRCUIT FOR ELEVATOR FEED AS INDICATED. REFER TO ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION. COORDINATE LOCATIONS WITH ELEVATOR EQUIPMENT REQUIRED CLEARANCES.
- 120V DEDICATED CIRCUIT TO ELEVATOR CAB LIGHTS AND VENTILATION VIA THE INDICATED 240V, 30A, 2P, LOCKABLE DISCONNECT SWITCH WITH (1) 20A LPN-RK FUSE. ROUTE CIRCUIT VIA ELEVATOR CONTROLLER. COORDINATE LOCATION WITH ELEVATOR EQUIPMENT REQUIRED CLEARANCES.
- 208V, 1PH CONNECTION TO ELEVATOR CONTROL ROOM OUTDOOR HVAC UNIT VIA 240V, 30A, 2P, HEAVY-DUTY, NEMA 3R DISCONNECT WITH 25A LPN FUSES. PROVIDE 2#10 AWG, AND (1) #10 AWG GND IN 3/4" C.
- 30A, 3P, TOGGLE DISCONNECT SWITCH, TYPICAL OF MITSUBISHI ELECTRIC TAZ-MS303.
- PROVIDE 3#12 AWG, AND (1) #12 AWG GND IN 3/4" C BETWEEN INDOOR UNIT AND OUTDOOR UNIT. COORDINATE WITH MANUFACTURER WIRING REQUIREMENTS.
- MOUNT LIGHTING FIXTURE AT 9'-0" AFF TO BOTTOM OF FIXTURE.
- PROVIDE 1" CONDUIT FOR GENERATOR PRE-TRANSFER SIGNAL BETWEEN ATS AND NEW ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR MANUFACTURER FOR EXACT WIRING REQUIREMENTS.
- NOT USED.
- PROVIDE NEW DEDICATED CIRCUIT TO ELEVATOR CAB LIGHTING VIA DISCONNECT LOCATED ABOVE IN ELEVATOR MACHINE ROOM. ROUTE VIA NEW ELEVATOR CONTROLLER.
- PROVIDE NEW PANEL. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- PROVIDE NEW ATS. REFER TO ONE-LINE FOR ADDITIONAL INFORMATION.
- PROVIDE SELECTIVE LOAD DISCONNECT CIRCUIT TO PROVIDE A PRE-TRANSFER SIGNAL (ASCO ACCESSORY S1Z)
- SMOKE DETECTOR PROGRAMMED FOR ELEVATOR RECALL AND FIREMAN'S HAT. LOCATE AT TOP OF ELEVATOR SHAFT.
- HEAT DETECTOR PROGRAMMED FOR ELEVATOR SHUNT-TRIP. LOCATED IN ELEVATOR SHAFT ADJACENT (WITHIN 24") TO EACH FIRE SPRINKLER HEAD ( WHERE PRESENT).
- SMOKE DETECTOR PROGRAMMED FOR ELEVATOR RECALL AND FIREMAN'S HAT.
- TWO ELEVATOR RECALL CONTROL MODULES - ONE FOR PRIMARY FLOOR RECALL AND ONE FOR ALTERNATE FLOOR RECALL.
- CONTROL MODULE FOR ACTIVATION OF THE FIREMAN'S HAT - WHEN SMOKE IS DETECTED IN THE SHAFT OR THE MACHINE ROOM.

**SHEET NOTES**

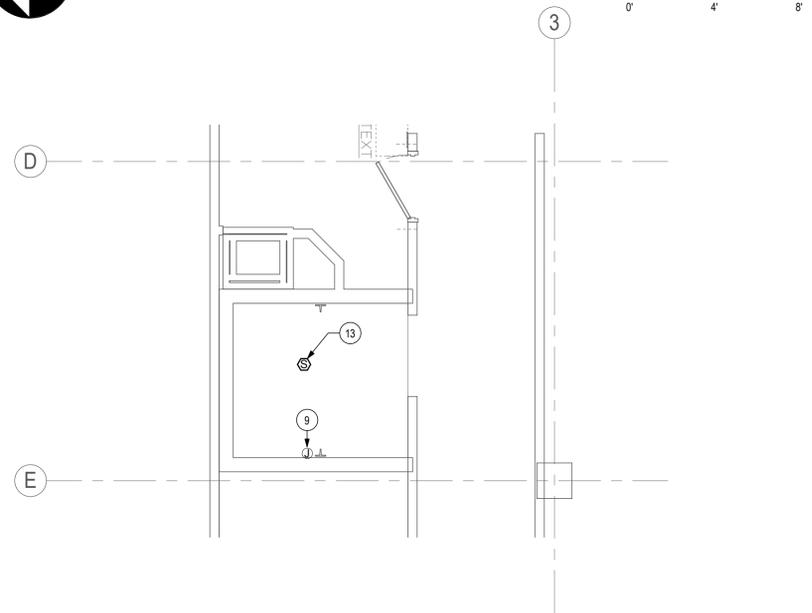
- ALL EXISTING SYSTEMS ARE TO REMAIN IN OPERATION DURING CONSTRUCTION. COORDINATE ALL SYSTEM SHUTDOWNS WITH THE OWNER.
- CONNECT NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM SYSTEM. NEW DEVICES SHALL MATCH EXISTING.



**ELECTRICAL PLAN - 5TH FLOOR - ELEVATOR #7**  
 1/4" = 1'-0"



**ELECTRICAL PLAN - 5TH FLOOR - ELEVATOR #3**  
 1/4" = 1'-0"



**ELECTRICAL PLAN - 3RD FLOOR - ELEVATOR #7**  
 1/4" = 1'-0"

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

Jun 03 2022

SAN MATEO CO. BLDG. INSP. DIV.

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**SITE AT ALL TIMES**

ELECTRICAL PLAN - 3RD AND 5TH FLOOR

SHEET NO.

**E203**



**HALL OF JUSTICE**  
**Elevator #3 and #7 Modernization**  
 400 COUNTY CENTER  
 REDWOOD CITY, CA 94063  
 CLIENT  
 County of San Mateo

**PROJECT MANAGER**

**Department of Public Works**  
 555 COUNTY CENTER  
 REDWOOD CITY, CA 94063



VERTICAL TRANSPORTATION EXCELLENCE  
 Elevator and Escalator Consulting  
 a division of Gannett Fleming, Inc.  
 3838 N. Central Avenue, Suite 1900  
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2333 West Northern Avenue  
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 www.lswphx.com  
 Project No. 2021-041.002  
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*Mark D. Ralston*

**KEYED NOTES (#)**

- 480V, 3PH CONNECTION TO ELEVATOR CONTROLLER VIA FUSIBLE DISCONNECT. PROVIDE NEW CIRCUIT FOR ELEVATOR FEED AS INDICATED. REFER TO ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION. COORDINATE LOCATION WITH ELEVATOR EQUIPMENT REQUIRED CLEARANCES.
- 120V DEDICATED CIRCUIT TO ELEVATOR CAB LIGHTS AND VENTILATION VIA THE INDICATED 240V, 30A, 2P LOCKABLE DISCONNECT SWITCH WITH (1) 20A LPN-RK FUSE. ROUTE CIRCUIT VIA ELEVATOR CONTROLLER. COORDINATE LOCATION WITH ELEVATOR EQUIPMENT REQUIRED CLEARANCES.
- 208V, 1PH CONNECTION TO ELEVATOR CONTROL ROOM OUTDOOR HVAC UNIT VIA 240V, 30A, 2P HEAVY-DUTY, NEMA 3R DISCONNECT WITH 25A LPN FUSES. PROVIDE 2#10 AWG, AND (1) #10 AWG GND IN 3/4" C.
- 30A, 3P TOGGLE DISCONNECT SWITCH, TYPICAL OF MITSUBISHI ELECTRIC TAZ-MS303.
- PROVIDE 3#12 AWG, AND (1)#12 AWG GND IN 3/4" C BETWEEN INDOOR UNIT AND OUTDOOR UNIT. COORDINATE WITH MANUFACTURER WIRING REQUIREMENTS.
- MOUNT LIGHTING FIXTURE AT 9'-0" AFF TO BOTTOM OF FIXTURE.
- PROVIDE 1" CONDUIT FOR GENERATOR PRE-TRANSFER SIGNAL BETWEEN ATS AND NEW ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR MANUFACTURER FOR EXACT WIRING REQUIREMENTS.
- NOT USED.
- PROVIDE NEW TRANSFORMER. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- PROVIDE NEW PANEL. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- SMOKE DETECTOR PROGRAMMED FOR ELEVATOR RECALL AND FIREMAN'S HAT.
- HEAT DETECTOR PROGRAMMED FOR ELEVATOR SHUNT-TRIP. LOCATED IN ELEVATOR MACHINE ROOM ADJACENT (WITHIN 24") TO EACH FIRE SPRINKLER (WHERE PRESENT).
- TWO ELEVATOR RECALL CONTROL MODULES - ONE FOR PRIMARY FLOOR RECALL AND ONE FOR ALTERNATE FLOOR RECALL.
- CONTROL MODULE FOR ACTIVATION OF THE FIREMAN'S HAT - WHEN SMOKE IS DETECTED IN THE SHAFT OR THE MACHINE ROOM.
- CONTROL MODULE FOR SHUNT-TRIP OF THE ELEVATOR DISCONNECT.
- MONITOR MODULE FOR SHUNT TRIP CONTROL VOLTAGE MONITORING.

**SHEET NOTES**

- ALL EXISTING SYSTEMS ARE TO REMAIN IN OPERATION DURING CONSTRUCTION. COORDINATE ALL SYSTEM SHUTDOWNS WITH THE OWNER.
- CONNECT NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM SYSTEM. NEW DEVICES SHALL MATCH EXISTING.

No.	Description	Date
A	.	././..

No.	Description	Date
Δ	.	././..

SCALE  
**AS NOTED**  
 PROJECT NO.  
 ISSUE DATE  
**100% SET 10/14/21**  
 SHEET TITLE

**ELECTRICAL PLAN - PENTHOUSE - ELEVATOR #3**  
 SHEET NO.  
**E204**

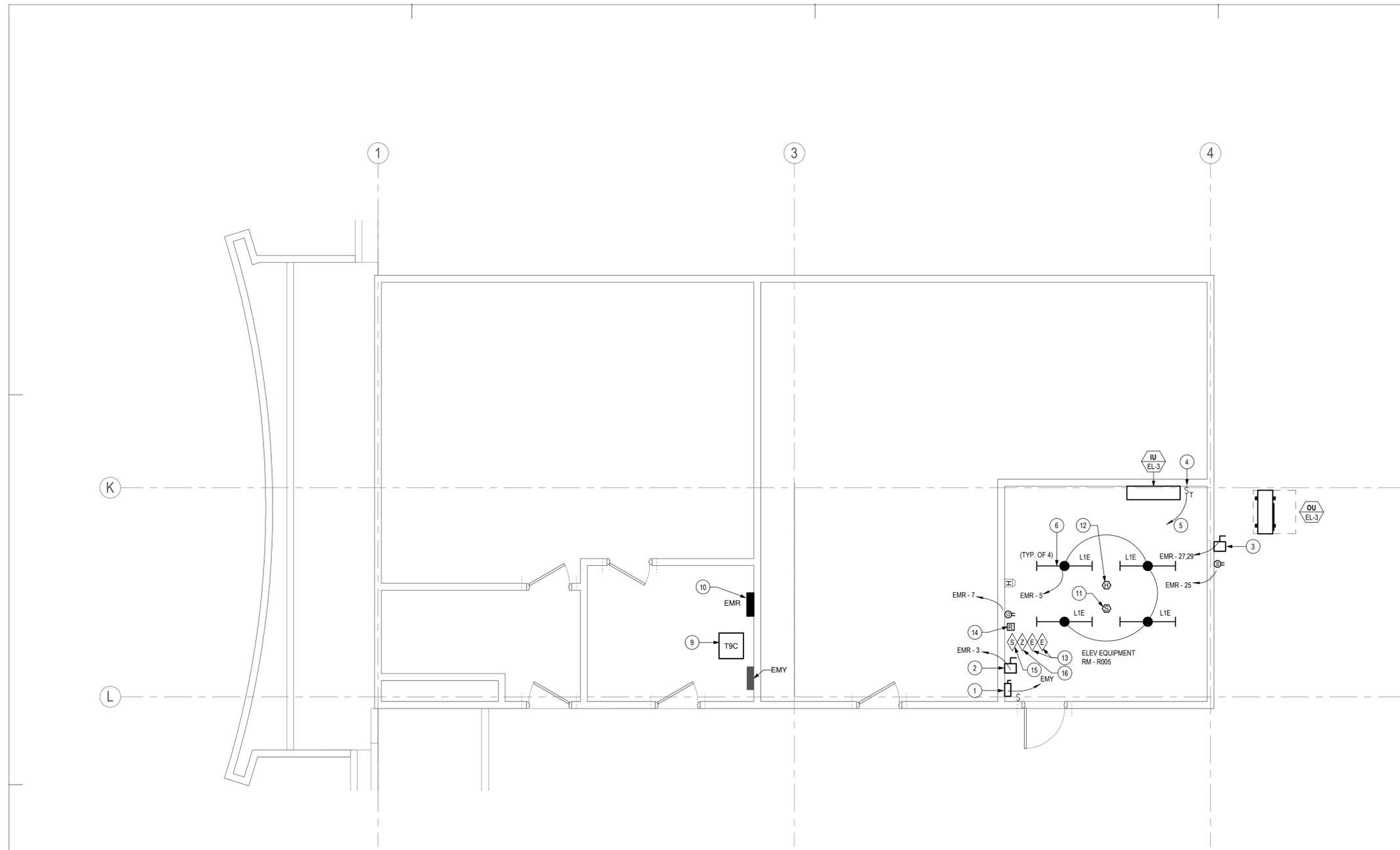
*REVIEWED FOR CODE COMPLIANCE*  
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Jun 03 2022

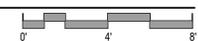
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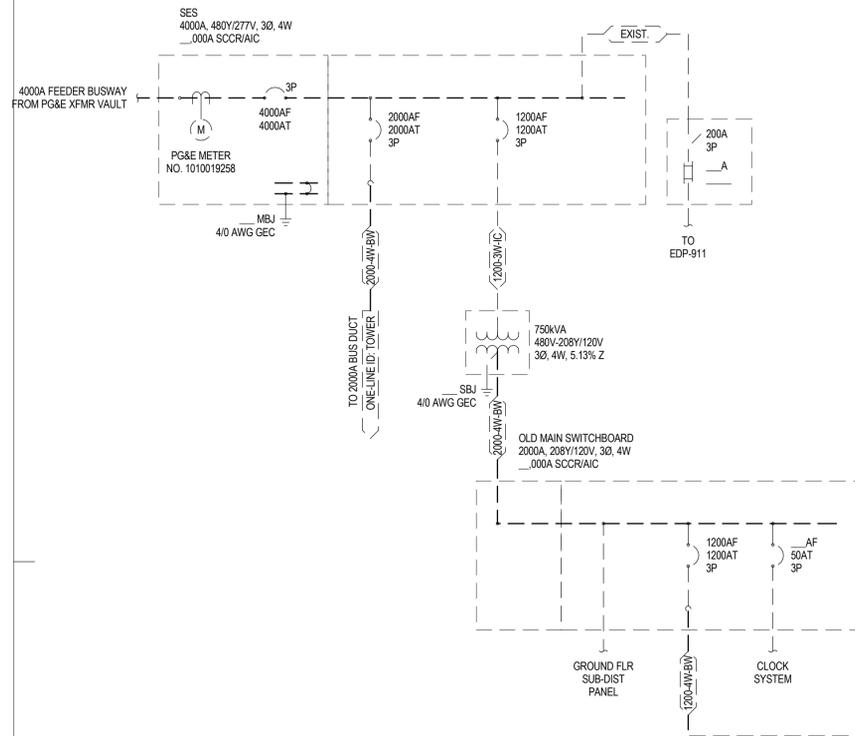
*[Signature]*

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**ELECTRICAL PLAN - PENTHOUSE - ELEVATOR #3**





### KEYED NOTES (1)

1. SELECTIVE COORDINATION WITH UPSTREAM DEVICES REQUIRED.

### FEEDER SCHEDULE

TAG	FEEDER DESCRIPTION	NOTES
1200-3W-IC	(3) 3 1/2" C, EACH WITH: (3) 600 KCMIL, AND (1) 3/0 AWG GND.	
225-4W-IC	(3) 4/0 AWG, (1) 4/0 AWG NEUTRAL, AND (1) 4 AWG GND IN 2 1/2" C.	
150-3W-IC	(3) 1/0 AWG, AND (1) 6 AWG GND IN 1 1/2" C.	
100-4WS-IC	(3) 1 AWG, (1) 1 AWG NEUTRAL, AND (1) 6 AWG GND IN 1 1/2" C.	
100-3W-IC	(3) 1 AWG, AND (1) 8 AWG GND IN 1 1/4" C.	
60-3W-IC	(3) 4 AWG, AND (1) 10 AWG GND IN 1" C.	
30-3W-IC	(3) 10 AWG, AND (1) 10 AWG GND IN 3/4" C.	
20-3W-IC	(3) 12 AWG, AND (1) 12 AWG GND IN 3/4" C.	
2000-4W-BW	2000A BUS DUCT, 4W-G	
1200-4W-BW	1200A BUS DUCT, 4W-G	
225-4W-EX1	(3) 4/0 AWG, (1) 4/0 AWG NEUTRAL, AND (1) 4 AWG GND IN 3" C.	
225-4W-EX2	(3) 4/0 AWG, (1) 1 AWG NEUTRAL, AND (1) 1 AWG GND IN 3" C.	
225-4W-EX3	(3) 4/0 AWG, (1) 2 AWG NEUTRAL, AND (1) 2 AWG GND IN 2 1/2" C.	

**CONDITION ABBREVIATIONS**

IC INDOOR, CONDUIT IN AIR  
 NL INDOOR, NON-LINEAR LOADS (NOTE 1)  
 OA OUTDOOR, 50°C AMBIENT, OTHER THAN ROOFTOPS (NOTE 1)  
 RT OUTDOOR, 50°C AMBIENT, MIN. 3.5" ABOVE ROOFTOP (NOTE 1)

**NOTES**

1 AMPACITY ADJUSTMENT BASED ON 90°C AMPACITY IN ACCORD WITH NEC 110.14(C).

• USING "NEXT HIGHER STANDARD OVERCURRENT DEVICE RATING (ABOVE THE AMPACITY OF THE CONDUCTORS BEING PROTECTED)" RULE IN ACCORD WITH NEC 240.4(B).

† UPSIZED BASED ON "CIRCULAR MIL AREA OF THE UNGROUNDED CONDUCTORS" PER 250.122(B).

‡ GROUND SIZE "NOT [ ]" REQUIRED TO BE LARGER THAN THE CIRCUIT CONDUCTORS SUPPLYING THE EQUIPMENT" IN ACCORD WITH NEC 250.122.



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 www.lswphx.com Project No. 2021-041.002  
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*Mark D. Ralston*

No.	Description	Date
A		././..

### REVISIONS

No.	Description	Date
Δ		././..

SCALE  
 AS NOTED

PROJECT NO.

ISSUE DATE  
 100% SET 10/14/21

SHEET TITLE

ELECTRICAL ONE-LINE DIAGRAMS

SHEET NO.

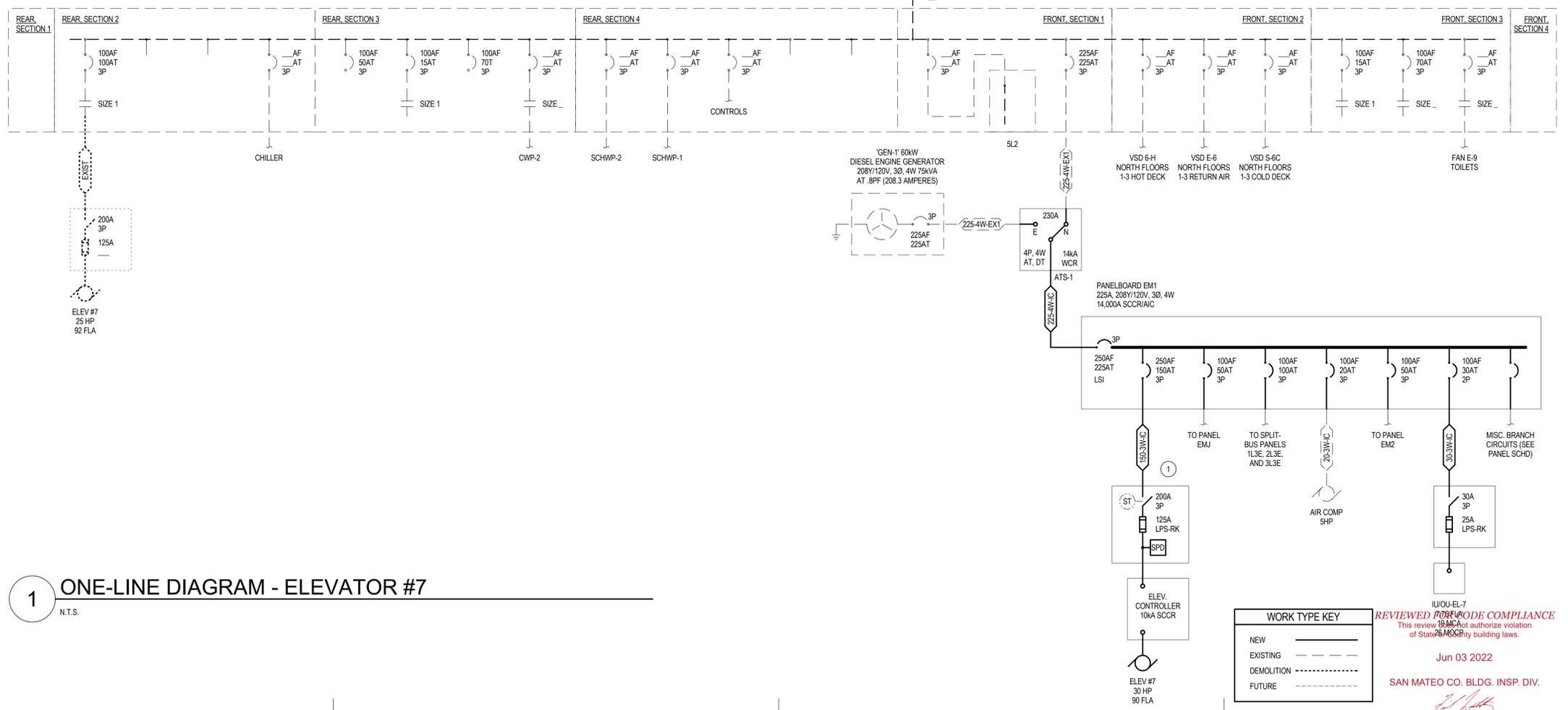
**E801**

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 This review is not an authorization of the project.  
 Jun 03 2022  
 SAN MATEO CO. BLDG. INSP. DIV.

**WORK TYPE KEY**

NEW	—————
EXISTING	- - - - -
DEMOLITION	-----
FUTURE	-----



**1 ONE-LINE DIAGRAM - ELEVATOR #7**  
 N.T.S.



**Point-to-Point Fault Calculations** (based on Busmann SPD method and tables) 7/19/2021

Fault F#	Location (Node description)	Conductors U.N.O. Busway (B)			Conduit or (Busway) Type	System Voltage	'C' Value	Combined 'C' Value	Isc Begin	Phase: 1 or 3	'F' Factor	'M' Value	Normal Full Isc Fault	Max. Full Isc Fault	Min. Equip SCRRWCR
		No. Sets	Size	Length (ft)											
1	SES	---	---	---	---	---	---	---	---	---	---	56,762	56,762	65,000	
2	750 KVA XFMR PRI	3	600 CU	25	Mag (CU)	480	22,965	68,895	56,762	3	0.0742	0.9309	52,839	52,839	N/A
3	OLD MAIN SWBD	1	2000A (B)	200	Mag (CU)	208	134,200	134,200	32,946	3	0.4084	0.7100	23,393	23,393	30,000
4	MCC-2	1	1200A (B)	260	Mag (CU)	208	76,900	76,900	23,393	3	0.6578	0.6032	14,111	14,111	18,000
5	ATS-1	1	400 CU	40	Mag (CU)	208	15,082	15,082	14,111	3	0.3113	0.7626	10,761	10,761	14,000
6	EM1	1	400 CU	10	Mag (CU)	208	15,082	15,082	10,761	3	0.0593	0.9440	10,158	10,158	14,000
7	ELEV #7 DISC	1	10 CU	50	Mag (CU)	208	8,925	8,925	10,158	3	0.4733	0.6787	6,895	6,895	10,000
8	IUIOU-EL-7 DISC	1	10 CU	65	Mag (CU)	208	981	981	10,158	3	5.5981	0.1516	1,540	1,540	5,000
9	BUS DUCT	1	2000A (B)	200	Mag (CU)	480	134,200	134,200	56,762	3	0.3049	0.7663	43,500	43,500	65,000
11	ATS-2	1	400 CU	10	Mag (CU)	480	15,082	15,082	43,500	3	0.1040	0.9058	39,403	39,403	50,000
12	EMX	1	400 CU	10	Mag (CU)	480	15,082	15,082	39,403	3	0.0942	0.9139	36,012	36,012	50,000
13	EMY	1	400 CU	100	Mag (CU)	480	15,082	15,082	36,012	3	0.8606	0.5375	19,355	19,355	25,000
14	TFC XFMR RI	1	4 CU	10	Mag (CU)	480	3,806	3,806	19,355	3	0.1833	0.8451	16,357	16,357	N/A
15	EMR	1	1 CU	10	Mag (CU)	208	7,293	7,293	2,854	3	0.6326	0.9683	2,764	2,764	10,000
16	ELEV #3 DISC	1	1 CU	55	Mag (CU)	480	7,293	7,293	19,355	3	0.5261	0.6553	12,683	12,683	18,000

**LOAD CALCULATION - MCC-2**

1200A - 208Y/120V, 3ø, 4W

	LOAD (VA)		
	Ø A	Ø B	Ø C
LOAD TO BE DEMOLISHED			
EXISTING ELEVATOR #7	-11,040	-11,040	-11,040
LOAD ON 5L2			-460
<b>NEW LOADS ON PANEL EM1</b>			
<b>NEW ELEVATOR #7</b>	<b>10,800</b>	<b>10,800</b>	<b>10,800</b>
<b>IUIOU-EL-7</b>	<b>931</b>	<b>931</b>	<b>931</b>
<b>MISCELLANEOUS OTHER LOADS</b>	<b>360</b>	<b>180</b>	<b>584</b>

Total Connected Load (VA):	1,051	871	-116
----------------------------	-------	-----	------

Total Code Load (VA):	1,051	871	-116
-----------------------	-------	-----	------

Total Code Load Change (Amps):	9	7	-1
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Total Code Load (3ø kVA):	1.8		
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**LOAD CALCULATION - EMY**

250A (225A MAX: UPSTREAM) - 480Y/277V, 3ø, 4W

	LOAD (VA)		
	Ø A	Ø B	Ø C
LOAD TO BE DEMOLISHED			
EXISTING ELEVATOR #3	-13,019	-13,019	-13,019
<b>NEW LOADS</b>			
<b>NEW ELEVATOR #3</b>	<b>11,911</b>	<b>11,911</b>	<b>11,911</b>
<b>NEW LOADS ON PANEL EMR</b>	<b>180</b>	<b>931</b>	<b>931</b>

Total Connected Load (VA):	-928	-177	-177
----------------------------	------	------	------

Total Code Load (VA):	-928	-177	-177
-----------------------	------	------	------

Total Code Load Change (Amps):	-3	-1	-1
--------------------------------	----	----	----

Total Code Load (3ø kVA):	-1.3		
---------------------------	------	--	--

**LOAD CALCULATION - GEN-1**

208.3A - 208Y/120V, 3ø, 4W

PANEL EM1	LOAD (VA)		
	Ø A	Ø B	Ø C
	20,867	20,687	20,160

Total Connected Load (VA):	20,867	20,687	20,160
+ 25% of Largest Motor:	2,700	2,700	2,700

Total Code Load (VA):	23,567	23,387	23,006
-----------------------	--------	--------	--------

Total Code Load (Amps):	196	195	192
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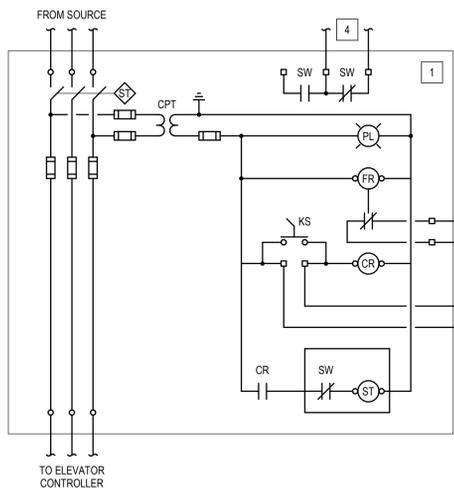
Total Code Load (3ø kVA):	70		
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**DETAIL NOTES (#)**

- SHUNT-TRIP FUSED DISCONNECT BY BUSSMAN, LITTELFUSE, OR MERSEN CONFIGURED AS DEPICTED.
- FIRE ALARM SYSTEM ADDRESSABLE MONITOR MODULE 120V N.O. CONTACTS FOR SUPERVISION OF THE SHUNT TRIP POWER SOURCE.
- FIRE ALARM SYSTEM ADDRESSABLE CONTROL MODULE 120V N.O. CONTACTS.
- AUX. CONTACTS WIRED TO BATTERY LOWERING DEVICE (WHERE PRESENT).

**LEGEND**

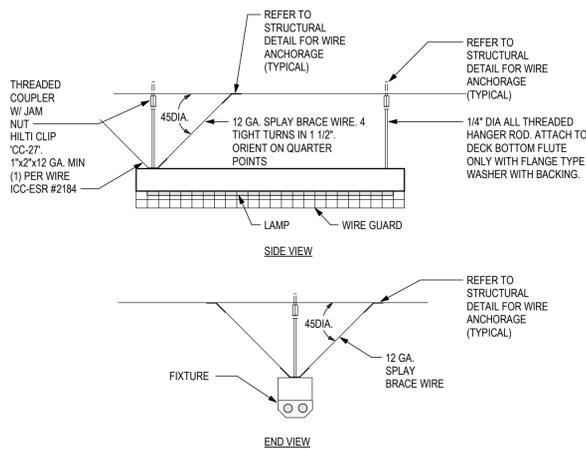
- CR CONTROL RELAY FOR ACTIVATION OF SHUNT TRIP - OPERATED BY SIGNAL FROM FIRE ALARM SYSTEM OR VIA THE TEST SWITCH.
- CPT CONTROL POWER TRANSFORMER WITH PRIMARY/SECONDARY FUSING, 120V SECONDARY AND PRIMARY AS REQUIRED.
- FR FIRE ALARM VOLTAGE MONITORING RELAY - CONTACTS OPEN ON LOSS OF CONTROL POWER.
- KS KEYED TEST SWITCH
- PL PILOT LIGHT-- INDICATIONS THAT CONTROL VOLTAGE IS PRESENT.
- ST SHUNT TRIP
- SW AUX CONTACTS MECHANICALLY INTERLOCKED WITH MAIN SWITCH POSITION.



**ELEVATOR FUSIBLE SHUNT TRIP DISCONNECT**

2

N.T.S.



**SUSPENDED FLUOR. STRIP MOUNTING DETAIL**

1

N.T.S.

**Replacement Panel: EM1** Mains: 225A C.B. (208.3A MAX: UPSTREAM) Voltage: 208Y/120V, 3ø, 4W  
 Mounting: SURFACE (NEMA 1) Type: BOLT-ON Minimum SCRR/A.I.C.: 14,000A

Use and/or Area Served	CIB No.	Load (VA)			Cir. No.	CIB	Use and/or Area Served
		Ø A	Ø B	Ø C			
EM LTG OVER GENERATOR	20	1			20	1	SPARE
LTG - OUTSIDE	40	3			2	1	RECEPT & LIGHT @ COMPRESSOR
		5			4	1	5TH FL FIRE ALARM PANELS
		2			6	20	COMPRESSOR
PANEL EMJ	50	7			8	1	COMPRESSOR
		9			10		
		11			12	50	PANEL EM2
		13			14		
		1			16		
RECEPT AT PANEL	20	1		16			
SPARE	20	1		17			
IUIOU-EL-7	30	1	931	18	3	LTG - STORAGE RM & HALL	
LTG - ELEV #7 MACHINE RM	20	21			20	1	GEN-1 BLOCK HEATER
		2	931		22	1	GEN-1 BATTERY CHARGER
RECEPT - ELEV #7 MACHINE RM	20	1	360	24	1	SPACE	
RECEPT - EXTERIOR	20	1	180	26		SPACE	
ELEV #7 CAB LIGHTING	20	1	500	28		SPACE	
SPARE	20	1		30		SPACE	
SPARE	20	1		32		SPACE	
SPARE	20	1		34		SPACE	
ELEVATOR #7	150	37	10,800		36	100	PANEL 1L3E, 2L3E, 3L3E
		39		10,800	38		
		41			40		
		42		10,800	42	3	
		3			42	3	
Existing Load		8,776	8,776	8,776	(Maximum Demand at 125%)		
Total Connected Load (VA):		20,867	20,687	20,160	NOTES:		
+ 25% of Continuous Load:				146	1. ALL CIRCUITS ARE EXISTING TO BE REFEED, UNO.		
+ 25% of Largest Motor:		2,700	2,700	2,700	2. NEW LOADS ARE SHOWN BOLD-ITALIC.		
					3. ALL CIRCUIT BREAKERS SHALL BE NEW.		
Total Code Load (VA):		23,567	23,387	23,006			
Total Code Load (Amps):		196	195	192	Total Code Load (3ø kVA): 70		

**Replacement Panel: EMR** Mains: 100A C.B. (83.3A MAX: TRANSFORMER) Voltage: 208Y/120V, 3ø, 4W  
 Mounting: SURFACE (NEMA 1) Type: BOLT-ON Minimum SCRR/A.I.C.: 10,000A

Use and/or Area Served	CIB No.	Load (VA)			Cir. No.	CIB	Use and/or Area Served
		Ø A	Ø B	Ø C			
SPARE	20	1			20	1	LTG - ELEVATOR MACHINE RM
LTG - ELEV CAR #3	20	3	500		2	1	LTG - ELEVATOR MACHINE RM
NOTE 3	20	1	500		4	1	LTG - ELEVATOR MACHINE RM
LTG - MACHINE ROOM (ELEV #3)	20	1			6	20	SPARE
NOTE 3	20	1			8	1	RECEPTS OUTSIDE RADIO RM
RECEPT - MACHINE RM (ELEV #3)	20	1	180		8	1	RECEPTS OUTSIDE RADIO RM
NOTE 3	20	1	360		10	1	RECEPTS OUTSIDE RADIO RM
RECEPT - BELOW PANEL	20	1			10	20	SPARE
LTG - ELEV CAR #4	20	1			12	20	SPARE
LTG - ELEV CAR #5	20	1	500		12	20	RECEPT
NOTE 3	20	1	1,200		14		
LTG - ELEV CAR #6	20	1			16	2	LTG - OUTSIDE
AIR HANDLER	20	1			16	20	LTG - OUTSIDE
AC	30	1	1,452		18	1	EXHAUST FAN FOR MACHINE RM
	30	1	264		20		
	30	1	1,452		22		
	30	1	264		22		
	30	1	1,452		24	3	
	30	1	264		24		
RECEPT - EXTERIOR	20	1	180		26		SPACE
IUIOU-EL-3	30	1	931		28		SPACE
	30	1			30		SPACE
SPARE	20	1			32		SPACE
SPARE	20	1			34		SPACE
SPARE	20	1			36		SPACE
SPARE	20	1			38		SPACE
SPARE	20	1			40		SPACE
SPARE	20	1			42		SPACE
Total Connected Load (VA):		4,636	5,527	4,607	NOTES:		
+ 25% of Continuous Load:		125	250	167	1. ALL CIRCUITS ARE EXISTING TO BE REFEED, UNO.		
+ 25% of Largest Motor:		66	66	66	2. NEW LOADS ARE SHOWN BOLD-ITALIC.		
					3. NEW LOAD IS LESS THAN OR EQUAL TO EXISTING LOAD.		
					4. ALL CIRCUIT BREAKERS SHALL BE NEW.		
Total Code Load (VA):		4,827	5,843	4,840			
Total Code Load (Amps):		40	49	40	Total Code Load (3ø kVA): 15.5		

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Jun 03 2022

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SCALE  
 AS NOTED

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SHEET TITLE

DETAILS, CALCULATIONS, AND  
 PANEL SCHEDULES

SHEET NO.

E901



EXISTING TECHNICAL DATA	
SAN MATEO HALL OF JUSTICE ELEVATOR 3	
GENERAL INFORMATION	
SEISMIC CONDITIONING	SEE LOCAL BUILDING CODE
ELEVATOR NO.(S)	3
CLASSIFICATION	PASSENGER
ELEVATOR TYPE	OVERHEAD TRACTION
CAPACITY (LBS.)	4000
SPEED (FPM)	300
MACHINE TYPE	GEARED
OPERATION	SELECTIVE COLLECTIVE
TOTAL TRAVEL	115'-0" APPROX.
DOOR TYPE	SINGLE SPEED CENTER OPENING
DOOR SIZE (WIDTH AND HEIGHT)	3'-6" W X 7'-0" H.
LNDGS./OPNGS. (FRONT)	6
LNDGS./OPNGS. (REAR)	N/A

ELECTRICAL INFORMATION	
MAINLINE POWER REQUIREMENT (STANDARD)	
VOLTAGE (V)	480
PHASE (Φ)	3
FREQUENCY (HZ)	VIF
FULL LOAD CURRENT (AMPS)	VIF
STARTING CURRENT (AMPS)	VIF
DISCONNECT CURRENT (AMPS)	VIF
LOCKED ROTOR (AMPS)	VIF
MOTOR POWER (HP)	35 HP
CAB LIGHTING POWER REQUIREMENT	
VOLTAGE (V)	120
PHASE (Φ)	1
FREQUENCY (HZ)	60
DISCONNECT CURRENT (AMPS)	30

CAB INFORMATION	REMARKS
CAB TYPE	STEEL SHELL
PLATFORM WIDTH	6'-0"
PLATFORM DEPTH	7'-8"
INTERIOR CAB WIDTH (WALL TO WALL)	5'-8 3/4"
INTERIOR CAB DEPTH (RETURN TO RETURN)	7'-8 3/4"
FLOOR TO CEILING HEIGHT	N/A
OVERALL CAB HEIGHT	8'-0"
CAB DOOR TYPE	STEEL
CAB DOOR SIZE (WIDTH AND HEIGHT)	3'-6" X 7'-0"
CAB FLOORING TYPE	VIF

PROPOSED TECHNICAL DATA	
SAN MATEO HALL OF JUSTICE ELEVATOR 3	
GENERAL INFORMATION	
SEISMIC CONDITIONING	SEE STRUCTURAL DRAWINGS
CLASSIFICATION	PASSENGER CLASS A
ELEVATOR TYPE	GEARLESS TRACTION
CAPACITY (LBS.)	4000
SPEED (FPM)	300
MACHINE TYPE	GEARLESS ACPM
OPERATION	SELECTIVE COLLECTIVE
TOTAL TRAVEL (FT.-IN.) (APPROX.)	115'-0" APPROX.
DOOR TYPE	SINGLE SPEED CENTER OPENING
DOOR SIZE (WIDTH AND HEIGHT) (FT.-IN.)	3'-6" W X 7'-0" H.
LNDGS./OPNGS. (FRONT)	6
LNDGS./OPNGS. (REAR)	0
ADA COMPLIANT FOR WHEELCHAIR ACCESS	YES
24" X 76" STRETCHER COMPLIANT (IBC 2000, IBC 2003)	YES
24" X 84" STRETCHER COMPLIANT (IBC 2006)	YES
24" X 84" STRETCHER COMPLIANT WITH NOT LESS THAN 5" RADIUS CORNERS (IBC 2009, IBC 2012)	YES
BUILDING EMERGENCY POWER SUPPLIED TO ELEVATORS	TBD
OCCUPIED SPACE BELOW PIT	NO

TRACTION INFORMATION	
CAR TOTAL GROSS LOAD (LBS) (APPROX.)	9402
COUNTERWEIGHT TOTAL GROSS LOAD (LBS) (APPROX.)	7002
MACHINE WEIGHT (LBS.) (APPROX.)	4800
POWER UNIT RATING (STARTS PER HOUR)	80
NO. OF ROPES (APPROX.)	8
CAR AND COUNTERWEIGHT GUIDE TYPES	ELSCO OR APPROVED EQUAL

CONTROLLER INFORMATION	
MANUFACTURER	PER SPECIFICATIONS
CONTROLLER TYPE	MICROPROCESSOR
DRIVE TYPE	NON-REGENERATIVE
AUXILIARY LOWERING DEVICE	TBD

CAB INFORMATION	
CAB TYPE	STEEL SHELL
PLATFORM WIDTH (FT.-IN.) (APPROX.)	6'-0"
PLATFORM DEPTH (FT.-IN.) (APPROX.)	7'-8"
INTERIOR CAB WIDTH (FT.-IN.) (APPROX.)	5'-8 3/4"
INTERIOR CAB DEPTH (RETURN TO REAR WALL) (FT.-IN.) (APPROX.)	7'-8 3/4"
INTERIOR FINISHED FLOOR TO CEILING HEIGHT (FT.-IN.) (APPROX.)	N/A
INTERIOR OVERALL CAB HEIGHT (FT.-IN.) (APPROX.)	8'-0"

CAB INFORMATION	
CAB FLOORING TYPE	TBD
CAB SUB FLOORING TYPE	(2) 5/8" PLYWOOD WITH FIRESTOP
PLATFORM AND SLING ASSEMBLY	STEEL
CAB DOOR TYPE	SINGLE SPEED CENTER OPENING
CAB DOOR WIDTH (FT.-IN.) (APPROX.)	3'-6"
CAB DOOR HEIGHT (FT.-IN.) (APPROX.)	7'-0"
TWO WAY COMMUNICATION TO BE PROVIDED BY CONTRACTOR	YES

ELECTRICAL INFORMATION	
MAINLINE POWER REQUIREMENT	
PASSENGER ELEVATOR	
VOLTAGE (V)	480
PHASE (Φ)	3
FREQUENCY (HZ)	60
FULL LOAD CURRENT (AMPS)	43
STARTING CURRENT (AMPS)	129
HEAVY DUTY FUSIBLE DISCONNECT WITH TIME DELAY FUSE AND 2 AUX. LEADS, CURRENT (AMPS)	60
LOCKED ROTOR (AMPS)	218
MOTOR POWER (HP) (APPROX.)	30
CAB LIGHTING POWER REQUIREMENT	
VOLTAGE (V)	120
PHASE (Φ)	1
FREQUENCY (HZ)	60
DISCONNECT CURRENT (AMPS)	30
ELEVATOR CONTROLLER ROOM DUPLEX GFCI CONVENIENCE OUTLET POWER REQUIREMENT	
VOLTAGE (V)	120
PHASE (Φ)	1
FREQUENCY (HZ)	60
DISCONNECT CURRENT (AMPS)	20
ELEVATOR PIT DUPLEX GFCI CONVENIENCE OUTLET POWER REQUIREMENT	
VOLTAGE (V)	120
PHASE (Φ)	1
FREQUENCY (HZ)	60
DISCONNECT CURRENT (AMPS)	20
ELEVATOR PIT SUMP PIT SINGLE NON-GFCI CONVENIENCE OUTLET POWER REQUIREMENT	
VOLTAGE (V)	120
PHASE (Φ)	1
FREQUENCY (HZ)	60
DISCONNECT CURRENT (AMPS)	30

RAIL FORCES DIAGRAM (R1, R2 AND R3)		
R1	R2	R3

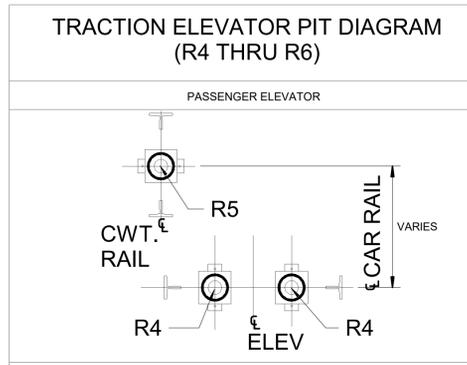
PASSENGER ELEVATOR		
R1 (Fx-x)	R2 (Fy-y)	R3 (Fz-z)
LBS	KG	LBS
KG	LBS	KG

CAR	NON SEISMIC	LOADING	R1 (Fx-x)		R2 (Fy-y)		R3 (Fz-z)	
			LBS	KG	LBS	KG	LBS	KG
SAFETY APPLICATION	SEISMIC	LOADING	221	LBS X .453	196	LBS X .453	N/A	LBS X .453
		RUNNING	221	LBS X .453	196	LBS X .453	N/A	LBS X .453
SAFETY APPLICATION	SEISMIC	LOADING	2390	LBS X .453	1200	LBS X .453	11427	LBS X .453
		RUNNING	2390	LBS X .453	1200	LBS X .453	11427	LBS X .453

SEISMIC ZONE: SEE STRUCTURAL DRAWINGS  
RAIL REACTIONS DO NOT OCCUR SIMULTANEOUSLY. REACTIONS ARE PER EACH RAIL AND ARE AN APPROXIMATE VALUE  
THE STRESSES IN GUIDE RAIL, OR IN THE RAIL AND ITS REINFORCEMENT, DUE TO THE HORIZONTAL FORCES IMPOSED ON THE RAIL DURING LOADING, UNLOADING, OR RUNNING, CALCULATED WITHOUT IMPACT, SHALL NOT EXCEED 105 MPA (15,000 PSI), BASED UPON THE CLASS OF LOADING, AND THE DEFLECTION SHALL NOT EXCEED 6 MM (0.25 IN.)

CAR AND COUNTERWEIGHT RAIL BRACKET SPACING	
PASSENGER ELEVATOR	MAXIMUM
BRACKET SPACING (FT. & IN.) (APPROX.)	12'-6"

FOR BRACKETS, FASTENINGS, AND SUPPORTS THE GUIDE-RAIL BRACKETS, THEIR FASTENINGS, AND SUPPORTS, SUCH AS BUILDING BEAMS AND WALLS, SHALL BE CAPABLE OF RESISTING THE HORIZONTAL FORCES IMPOSED BY THE CLASS OF LOADING WITH A TOTAL DEFLECTION AT THE POINT OF SUPPORT NOT IN EXCESS OF 3 MM (0.125 IN.).



SEISMIC ZONE: SEE STRUCTURAL DRAWINGS  
BUFFER AND JACK REACTIONS DO NOT OCCUR SIMULTANEOUSLY  
REACTIONS ARE PER EACH COMPONENT AND ARE AN APPROXIMATE VALUE  
\*GOVERNOR SUPPORT IMPACT R6 OCCURS AT TOP OF HOISTWAY AND IS ATTACHED TO CAR RAIL.  
WHEN OCCUPIED SPACE IS BELOW PIT, COUNTERWEIGHT SAFETY IS REQUIRED AND R6 WILL BE ADDED TO CWT. RAIL AT TOP OF HOISTWAY.

CAR BUFFER SUPPORT IMPACTS (R4)	
CAR	PASSENGER ELEVATOR
PHASE (Φ)	R4
LBS.	KG.
TOTAL PER EACH STAND (APPROX.)	12140 LBS X .453
TOTAL COMBINED (APPROX.)	24280 LBS X .453

COUNTERWEIGHT BUFFER SUPPORT IMPACTS (R5)	
COUNTERWEIGHT	PASSENGER ELEVATOR
PHASE (Φ)	R5
LBS.	KG.
TOTAL PER EACH STAND (APPROX.)	19120 LBS X .453
TOTAL COMBINED (APPROX.)	19120 LBS X .453

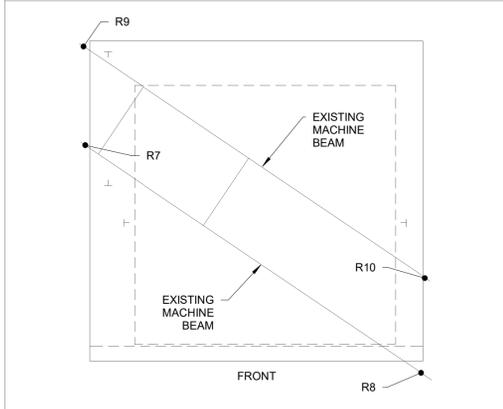
GOVERNOR SUPPORT IMPACTS (R6)	
GOVERNOR	PASSENGER ELEVATOR
PHASE (Φ)	R6
LBS.	KG.
STATIC FORCE (LBS.) (APPROX.)	600 LBS X .453
DYNAMIC FORCE (LBS.) (APPROX.)	1100 LBS X .453
SAFETY SETTING FORCE (LBS.) (APPROX.)	11427 LBS X .453

\*GOVERNOR SUPPORT IMPACT R6 OCCURS AT TOP OF HOISTWAY AND IS ATTACHED TO CAR RAIL. WHEN OCCUPIED SPACE IS BELOW PIT, COUNTERWEIGHT SAFETY IS REQUIRED AND R6 WILL BE ADDED TO CWT. RAIL AT TOP OF HOISTWAY.

COOLING AND VENTILATION		
PASSENGER ELEVATOR		
	MINIMUM	MAXIMUM
MACHINE HEATING OUTPUT (BTU'S/HR) (BASED ON 480 V MAINLINE AND REGENERATIVE DRIVE CONTROLLER)	6878	8254
CONTROLLER ROOM HEATING OUTPUT (BTU'S/HR) (BASED ON 480 V MAINLINE AND REGENERATIVE DRIVE CONTROLLER)	5000	5500
ISOLATION TRANSFORMER (ONLY FOR 240V AND LESS) (LOCATED IN CONTROL ROOM) HEATING OUTPUT (BTU/HR) (APPROX.)	-	-
TOTAL HEATING OUTPUT (BTU'S/HR) (APPROX.)	11878	13754

BTU'S/HOUR SHOWN ARE PER EACH ELEVATOR, CONTROLLER ROOM TEMPERATURE TO BE MAINTAINED BETWEEN 55 TO 90 DEGREES FAHRENHEIT. RELATIVE HUMIDITY TO BE MAINTAINED AT 95% OR LESS NON-CONDENSING. CONTROL ROOM SHALL BE PROVIDED WITH NATURAL OR MECHANICAL MEANS TO KEEP THE AMBIENT AIR TEMPERATURE AND HUMIDITY IN THE RANGE SHOWN TO ENSURE NORMAL OPERATION OF THE ELEVATOR. THE TEMPERATURE AND HUMIDITY RANGE SHALL BE PERMANENTLY POSTED IN THE CONTROLLER ROOM.

### OVERHEAD MACHINERY SIZE REACTION LOADING DIAGRAM (R6 THRU R11)



NOTES:  
1.) DETAIL SHOWN IS FOR REFERENCES PURPOSES ONLY.  
2.) TYPE OF CONNECTION, CLIP SIZE, MACHINE BEAM SIZE, WELDING AND BOLTING METHODS TO BE COORDINATED BY ELEVATOR CONTRACTOR.  
3.) BEAM SEATS TO BE DESIGNED BY STRUCTURAL ENGINEER. STRUCTURAL ENGINEER TO REVIEW APPROXIMATE LOADING BELOW AT TIME OF CONTRACTOR SUBMITTAL. STRUCTURAL ENGINEER TO REVIEW ELEVATOR CONTRACTORS BEAM LOADING REQUIREMENTS.  
4.) OTHER BEAM MOUNTING OPTIONS ARE AVAILABLE. THESE OPTIONS ARE SUBJECT TO STRUCTURAL REVIEW AND CONFIRMATION FROM THE ELEVATOR CONTRACTOR.  
5.) REACTIONS ARE INTERCHANGABLE BASED ON HAND OF MACHINE AND ORIENTATION WITHIN HOISTWAY.

REACTION LOADS	PASSENGER ELEVATOR							
	R7		R8		R9		R10	
	LBS	KG	LBS	KG	LBS	KG	LBS	KG
14000	LBS X .453	7000	LBS X .453	10500	LBS X .453	10500	LBS X .453	

ALL DYNAMIC LOADS SHOWN HAVE BEEN DOUBLED FOR IMPACT  
DYNAMIC/LIVE LOADING = STRESS ALLOW = 80% OF THE PERMITTED STRESSES FOR STATIC CONDITION  
THE ALLOWABLE DEFLECTIONS OF MACHINERY AND SHEAVE BEAMS AND THEIR IMMEDIATE SUPPORTS UNDER STATIC LOAD SHALL NOT EXCEED 1/1666 OF THE SPAN.  
TYPE OF CONNECTION, MACHINE BEAM SIZE, WELDING AND BOLTING METHODS TO BE COORDINATED BY ELEVATOR CONTRACTOR.  
ELEVATOR CONTRACTOR SHALL SUBMIT ALL BEAM LOADING CALCULATIONS AND LOCATIONS FOR STRUCTURAL REVIEW.

MACHINE ROOM WEIGHTS	
WEIGHT OF MACHINE AND MOTOR (LBS.) (APPROX.)	4800
WEIGHT OF CONTROLLER (LBS.) (APPROX.)	1000
MISCELLANEOUS	100
TOTAL WEIGHT (LBS.) (APPROX.)	5900



**HALL OF JUSTICE**  
**Elevator #3 and #7 Modernization**  
400 COUNTY CENTER  
REDWOOD CITY, CA 94063  
CLIENT  
County of San Mateo

PROJECT MANAGER

Department of Public Works  
555 COUNTY CENTER  
REDWOOD CITY, CA 94063



ISSUED		
No.	Description	Date
A	.	././..

REVISIONS		
No.	Description	Date
Δ	.	././..

SCALE  
**AS NOTED**  
PROJECT NO.  
ISSUE DATE  
**100% SET 10/14/21**  
SHEET TITLE

ELEVATOR 3 TECHNICAL DATA

SHEET NO.

**VT002**

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

Jun 03 2022

SAN MATEO CO. BLDG. INSP. DIV.

**JOB COPY**  
**TO REMAIN ON**  
**SITE AT ALL TIMES**

EXISTING TECHNICAL DATA	
SAN MATEO HALL OF JUSTICE ELEVATOR 7	
GENERAL INFORMATION	
SEISMIC CONDITIONING	SEE LOCAL BUILDING CODE
ELEVATOR NO. (S)	7
CLASSIFICATION	PASSENGER
ELEVATOR TYPE	OVERHEAD TRACTION
CAPACITY (LBS.)	3500
SPEED (FPM)	200
MACHINE TYPE	GEARED
OPERATION	SELECTIVE COLLECTIVE
TOTAL TRAVEL	49'-0" APPROX.
DOOR TYPE	TWO SPEED SIDE SLIDE
DOOR SIZE (WIDTH AND HEIGHT)	3'-10" W X 7'-0" H.
LNDGS./OPNGS. (FRONT)	4
LNDGS./OPNGS. (REAR)	N/A
ELECTRICAL INFORMATION	
MAINLINE POWER REQUIREMENT (STANDARD)	
VOLTAGE (V)	208
PHASE (Φ)	3
FREQUENCY (HZ)	VIF
FULL LOAD CURRENT (AMPS)	VIF
STARTING CURRENT (AMPS)	VIF
DISCONNECT CURRENT (AMPS)	VIF
LOCKED ROTOR (AMPS)	VIF
MOTOR POWER (HP)	35 HP
CAB LIGHTING POWER REQUIREMENT	
VOLTAGE (V)	120
PHASE (Φ)	1
FREQUENCY (HZ)	60
DISCONNECT CURRENT (AMPS)	30
CAB INFORMATION	
CAB TYPE	STEEL SHELL
PLATFORM WIDTH	5'-2 1/2"
PLATFORM DEPTH	7'-5"
INTERIOR CAB WIDTH (WALL TO WALL)	4'-9"
INTERIOR CAB DEPTH (RETURN TO RETURN)	7'-1 1/4"
FLOOR TO CEILING HEIGHT	N/A
OVERALL CAB HEIGHT	7'-4"
CAB DOOR TYPE	STEEL
CAB DOOR SIZE (WIDTH AND HEIGHT)	3'-10" X 7'-0"
CAB FLOORING TYPE	VIF

PROPOSED TECHNICAL DATA	
SAN MATEO HALL OF JUSTICE ELEVATOR 7	
GENERAL INFORMATION	
SEISMIC CONDITIONING	SEE STRUCTURAL DRAWINGS
CLASSIFICATION	PASSENGER ELEVATOR
ELEVATOR TYPE	PASSENGER CLASS A
CAPACITY (LBS.)	3500
SPEED (FPM)	200
MACHINE TYPE	GEARLESS ACPM
OPERATION	SELECTIVE COLLECTIVE
TOTAL TRAVEL (FT.-IN.) (APPROX.)	49'-0" APPROX.
DOOR TYPE	TWO SPEED SIDE SLIDE
DOOR SIZE (WIDTH AND HEIGHT) (FT.-IN.)	3'-10" W X 7'-0" H.
LNDGS./OPNGS. (FRONT)	4
LNDGS./OPNGS. (REAR)	0
ADA COMPLIANT FOR WHEELCHAIR ACCESS	YES
24" X 76" STRETCHER COMPLIANT (IBC 2000, IBC 2003)	YES
24" X 84" STRETCHER COMPLIANT (IBC 2008)	YES
24" X 84" STRETCHER COMPLIANT WITH NOT LESS THAN 5" RADIUS CORNERS (IBC 2009, IBC 2012)	YES
BUILDING EMERGENCY POWER SUPPLIED TO ELEVATORS	TBD
OCCUPIED SPACE BELOW PIT	NO
TRACTION INFORMATION	
CAR TOTAL GROSS LOAD (LBS) (APPROX.)	10160
COUNTERWEIGHT TOTAL GROSS LOAD (LBS) (APPROX.)	8060
MACHINE WEIGHT (LBS.) (APPROX.)	4800
POWER UNIT RATING (STARTS PER HOUR)	80
NO. OF ROPES (APPROX.)	8
CAR AND COUNTERWEIGHT GUIDE TYPES	ELSCO OR APPROVED EQUAL
CONTROLLER INFORMATION	
MANUFACTURER	PER SPECIFICATIONS
CONTROLLER TYPE	MICROPROCESSOR
DRIVE TYPE	NON-REGENERATIVE
AUXILIARY LOWERING DEVICE	TBD
CAB INFORMATION	
CAB TYPE	STEEL SHELL
PLATFORM WIDTH (FT.-IN.) (APPROX.)	5'-2 1/2"
PLATFORM DEPTH (FT.-IN.) (APPROX.)	7'-5"
INTERIOR CAB WIDTH (FT.-IN.) (APPROX.)	4'-9"
INTERIOR CAB DEPTH (RETURN TO REAR WALL) (FT.-IN.) (APPROX.)	7'-1 1/4"
INTERIOR FINISHED FLOOR TO CEILING HEIGHT (FT.-IN.) (APPROX.)	N/A
INTERIOR OVERALL CAB HEIGHT (FT.-IN.) (APPROX.)	7'-4"
CAB FLOORING TYPE	TBD
CAB SUB FLOORING TYPE	(2) 5/8" PLYWOOD WITH FIRESTOP
PLATFORM AND SLING ASSEMBLY	STEEL
CAB DOOR TYPE	TWO SPEED SIDE SLIDE OPENING
CAB DOOR WIDTH (FT.-IN.) (APPROX.)	3'-10"
CAB DOOR HEIGHT (FT.-IN.) (APPROX.)	7'-0"
TWO WAY COMMUNICATION TO BE PROVIDED BY CONTRACTOR	YES

ELECTRICAL INFORMATION								
MAINLINE POWER REQUIREMENT								
<b>PASSENGER ELEVATOR</b>								
VOLTAGE (V)	208							
PHASE (Φ)	3							
FREQUENCY (HZ)	60							
FULL LOAD CURRENT (AMPS)	90							
STARTING CURRENT (AMPS)	270							
HEAVY DUTY FUSIBLE DISCONNECT WITH TIME DELAY FUSE AND 2 AUX. LEADS, CURRENT (AMPS)	125							
LOCKED ROTOR (AMPS)	481							
MOTOR POWER (HP) (APPROX.)	30							
<b>CAB LIGHTING POWER REQUIREMENT</b>								
VOLTAGE (V)	120							
PHASE (Φ)	1							
FREQUENCY (HZ)	60							
DISCONNECT CURRENT (AMPS)	30							
<b>ELEVATOR CONTROLLER ROOM DUPLEX GFCI CONVENIENCE OUTLET POWER REQUIREMENT</b>								
VOLTAGE (V)	120							
PHASE (Φ)	1							
FREQUENCY (HZ)	60							
DISCONNECT CURRENT (AMPS)	20							
<b>ELEVATOR PIT DUPLEX GFCI CONVENIENCE OUTLET POWER REQUIREMENT</b>								
VOLTAGE (V)	120							
PHASE (Φ)	1							
FREQUENCY (HZ)	60							
DISCONNECT CURRENT (AMPS)	20							
<b>ELEVATOR PIT SUMP PIT SINGLE NON-GFCI CONVENIENCE OUTLET POWER REQUIREMENT</b>								
VOLTAGE (V)	120							
PHASE (Φ)	1							
FREQUENCY (HZ)	60							
DISCONNECT CURRENT (AMPS)	20							
<b>ELEVATOR PIT LIGHTING POWER REQUIREMENT</b>								
VOLTAGE (V)	120							
PHASE (Φ)	1							
FREQUENCY (HZ)	60							
DISCONNECT CURRENT (AMPS)	30							
RAIL FORCES DIAGRAM (R1, R2 AND R3)								
PASSENGER ELEVATOR								
	R1 (Fx-x)	R2 (Fy-y)	R3 (Fz-z)					
	LBS	KG	LBS	KG	LBS	KG		
CAR	NON SEISMIC	LOADING	167	LBS X .453	166	LBS X .453	N/A	LBS X .453
	RUNNING	167	LBS X .453	166	LBS X .453	N/A	LBS X .453	
	SAFETY APPLICATION	N/A	LBS X .453	N/A	LBS X .453	11150	LBS X .453	
COUNTERWEIGHT	NON SEISMIC	LOADING	330	LBS X .453	120	LBS X .453	N/A	LBS X .453
	RUNNING	330	LBS X .453	120	LBS X .453	N/A	LBS X .453	
	SAFETY APPLICATION	N/A	LBS X .453	N/A	LBS X .453	N/A	LBS X .453	
SEISMIC		2720	LBS X .453	1360	LBS X .453	N/A	LBS X .453	

SEISMIC ZONE: SEE STRUCTURAL DRAWINGS  
RAIL REACTIONS DO NOT OCCUR SIMULTANEOUSLY. REACTIONS ARE PER EACH RAIL AND ARE AN APPROXIMATE VALUE  
THE STRESSES IN GUIDE RAIL, OR IN THE RAIL AND ITS REINFORCEMENT, DUE TO THE HORIZONTAL FORCES IMPOSED ON THE RAIL DURING LOADING, UNLOADING, OR RUNNING, CALCULATED WITHOUT IMPACT, SHALL NOT EXCEED 105 MPA (15,000 PSI), BASED UPON THE CLASS OF LOADING, AND THE DEFLECTION SHALL NOT EXCEED 6 MM (0.25 IN.)

CAR AND COUNTERWEIGHT RAIL BRACKET SPACING	
PASSENGER ELEVATOR	
BRACKET SPACING (FT. & IN.) (APPROX.)	MAXIMUM
	12'-6"

FOR BRACKETS, FASTENINGS, AND SUPPORTS THE GUIDE-RAIL BRACKETS, THEIR FASTENINGS, AND SUPPORTS, SUCH AS BUILDING BEAMS AND WALLS, SHALL BE CAPABLE OF RESISTING THE HORIZONTAL FORCES IMPOSED BY THE CLASS OF LOADING WITH A TOTAL DEFLECTION AT THE POINT OF SUPPORT NOT IN EXCESS OF 3 MM (0.125 IN.)

TRACTION ELEVATOR PIT DIAGRAM (R4 THRU R6)		
SEISMIC ZONE: SEE STRUCTURAL DRAWINGS BUFFER AND JACK REACTIONS DO NOT OCCUR SIMULTANEOUSLY REACTIONS ARE PER EACH COMPONENT AND ARE AN APPROXIMATE VALUE *GOVERNOR SUPPORT IMPACT R6 OCCURS AT TOP OF HOISTWAY AND IS ATTACHED TO CAR RAIL. WHEN OCCUPIED SPACE IS BELOW PIT, COUNTERWEIGHT SAFETY IS REQUIRED AND R6 WILL BE ADDED TO CWT. RAIL AT TOP OF HOISTWAY.		
CAR BUFFER SUPPORT IMPACTS (R4)		
CAR	PASSENGER ELEVATOR	
	R4	
	LBS	KG
TOTAL PER EACH STAND (APPROX.)	11410	LBS X .453
TOTAL COMBINED (APPROX.)	22820	LBS X .453
LOADING SHOWN SHALL BE CONSIDERED APPROXIMATE DYNAMIC LOADING AND HAS BEEN DOUBLED FOR IMPACT		
COUNTERWEIGHT BUFFER SUPPORT IMPACTS (R5)		
COUNTERWEIGHT	PASSENGER ELEVATOR	
	R5	
	LBS	KG
TOTAL PER EACH STAND (APPROX.)	18870	LBS X .453
TOTAL COMBINED (APPROX.)	18870	LBS X .453
LOADING SHOWN SHALL BE CONSIDERED APPROXIMATE DYNAMIC LOADING AND HAS BEEN DOUBLED FOR IMPACT		
GOVERNOR SUPPORT IMPACTS (R6)		
GOVERNOR	PASSENGER ELEVATOR	
	R6	
	LBS	KG
STATIC FORCE (LBS.) (APPROX.)	600	LBS X .453
DYNAMIC FORCE (LBS.) (APPROX.)	1100	LBS X .453
SAFETY SETTING FORCE (LBS.) (APPROX.)	11150	LBS X .453
*GOVERNOR SUPPORT IMPACT R6 OCCURS AT TOP OF HOISTWAY AND IS ATTACHED TO CAR RAIL. WHEN OCCUPIED SPACE IS BELOW PIT, COUNTERWEIGHT SAFETY IS REQUIRED AND R6 WILL BE ADDED TO CWT. RAIL AT TOP OF HOISTWAY.		
COOLING AND VENTILATION		
PASSENGER ELEVATOR		
	MINIMUM	MAXIMUM
MACHINE HEATING OUTPUT (BTU'S/HR) (BASED ON 480 V MAINLINE AND REGENERATIVE DRIVE CONTROLLER)	4012	4815
CONTROLLER ROOM HEATING OUTPUT (BTU'S/HR) (BASED ON 480 V MAINLINE AND REGENERATIVE DRIVE CONTROLLER)	5000	5500
ISOLATION TRANSFORMER (ONLY FOR 240V AND LESS) (LOCATED IN CONTROL ROOM) HEATING OUTPUT (BTU/HR) (APPROX.)	-	-
TOTAL HEATING OUTPUT (BTU'S/HR) (APPROX.)	9012	10315
BTU'S/HOUR SHOWN ARE PER EACH ELEVATOR. CONTROLLER ROOM TEMPERATURE TO BE MAINTAINED BETWEEN 55 TO 90 DEGREES FAHRENHEIT. RELATIVE HUMIDITY TO BE MAINTAINED AT 95% OR LESS NON-CONDENSING. CONTROL ROOM SHALL BE PROVIDED WITH NATURAL OR MECHANICAL MEANS TO KEEP THE AMBIENT AIR TEMPERATURE AND HUMIDITY IN THE RANGE SHOWN TO ENSURE NORMAL OPERATION OF THE ELEVATOR. THE TEMPERATURE AND HUMIDITY RANGE SHALL BE PERMANENTLY POSTED IN THE CONTROLLER ROOM.		

OVERHEAD MACHINERY REACTION LOADING DIAGRAM (R6 THRU R11)								
NOTES: 1.) DETAIL SHOWN IS FOR REFERENCES PURPOSES ONLY. 2.) TYPE OF CONNECTION, CLIP SIZE, MACHINE BEAM SIZE, WELDING AND BOLTING METHODS TO BE COORDINATED BY ELEVATOR CONTRACTOR. 3.) BEAM SEATS TO BE DESIGNED BY STRUCTURAL ENGINEER. STRUCTURAL ENGINEER TO REVIEW APPROXIMATE LOADING BELOW AT TIME OF CONTRACTOR SUBMITTAL. STRUCTURAL ENGINEER TO REVIEW ELEVATOR CONTRACTORS BEAM LOADING REQUIREMENTS. 4.) OTHER BEAM MOUNTING OPTIONS ARE AVAILABLE. THESE OPTIONS ARE SUBJECT TO STRUCTURAL REVIEW AND CONFIRMATION FROM THE ELEVATOR CONTRACTOR. 5.) REACTIONS ARE INTERCHANGABLE BASED ON HAND OF MACHINE AND ORIENTATION WITHIN HOISTWAY.								
PASSENGER ELEVATOR								
	R7	R8	R9	R10				
	LBS	KG	LBS	KG	LBS	KG	LBS	KG
REACTION LOADS	11600	LBS X .453	5800	LBS X .453	8650	LBS X .453	8700	LBS X .453
REACTION LOADS	4000	LBS X .453	3900	LBS X .453	N/A	LBS X .453	N/A	LBS X .453
ALL DYNAMIC LOADS SHOWN HAVE BEEN DOUBLED FOR IMPACT DYNAMIC/IVE LOADING = STRESS ALLOW = 80% OF THE PERMITTED STRESSES FOR STATIC CONDITION THE ALLOWABLE DEFLECTIONS OF MACHINERY AND SHEAVE BEAMS AND THEIR IMMEDIATE SUPPORTS UNDER STATIC LOAD SHALL NOT EXCEED 1/1666 OF THE SPAN. TYPE OF CONNECTION, MACHINE BEAM SIZE, WELDING AND BOLTING METHODS TO BE COORDINATED BY ELEVATOR CONTRACTOR. ELEVATOR CONTRACTOR SHALL SUBMIT ALL BEAM LOADING CALCULATIONS AND LOCATIONS FOR STRUCTURAL REVIEW.								
MACHINE ROOM WEIGHTS								
WEIGHT OF MACHINE AND MOTOR (LBS.) (APPROX.)	4800							
WEIGHT OF CONTROLLER (LBS.) (APPROX.)	1000							
MISCELLANEOUS	100							
TOTAL WEIGHT (LBS.) (APPROX.)	5900							



**HALL OF JUSTICE**  
Elevator #3 and #7 Modernization  
400 COUNTY CENTER  
REDWOOD CITY, CA 94063

CLIENT  
County of San Mateo

PROJECT MANAGER

Department of Public Works  
555 COUNTY CENTER  
REDWOOD CITY, CA 94063



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SCALE  
AS NOTED

PROJECT NO.

ISSUE DATE  
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SHEET TITLE

ELEVATOR 7 TECHNICAL DATA

SHEET NO.

VT003

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 County of San Mateo

PROJECT MANAGER

Department of Public Works  
 555 COUNTY CENTER  
 REDWOOD CITY, CA 94063



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 a division of Gannett Fleming, Inc.  
 3838 N. Central Avenue, Suite 1900  
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PROJECT NO.

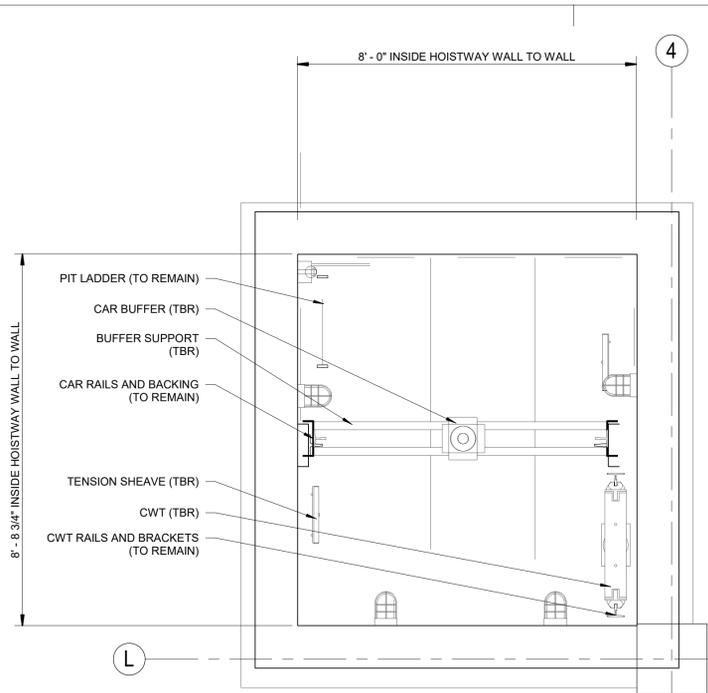
ISSUE DATE  
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SHEET TITLE

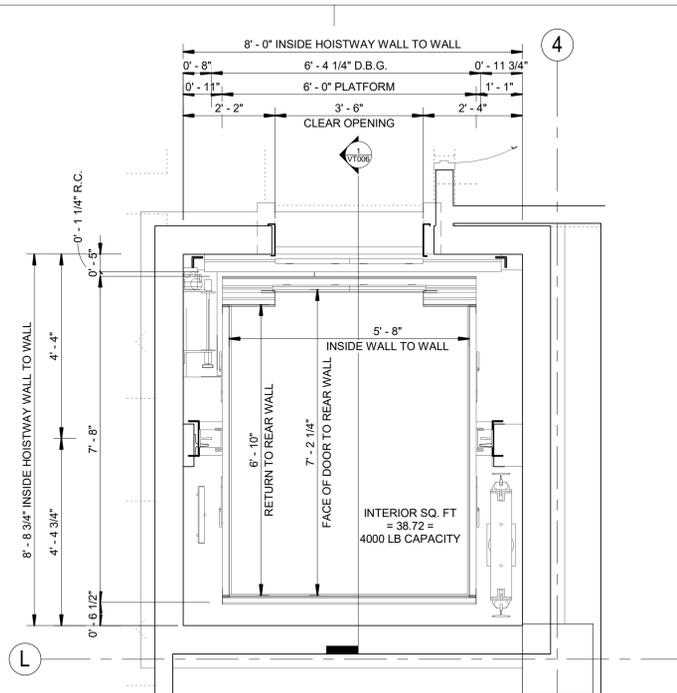
ELEVATOR 3 EXISTING PLANS

SHEET NO.

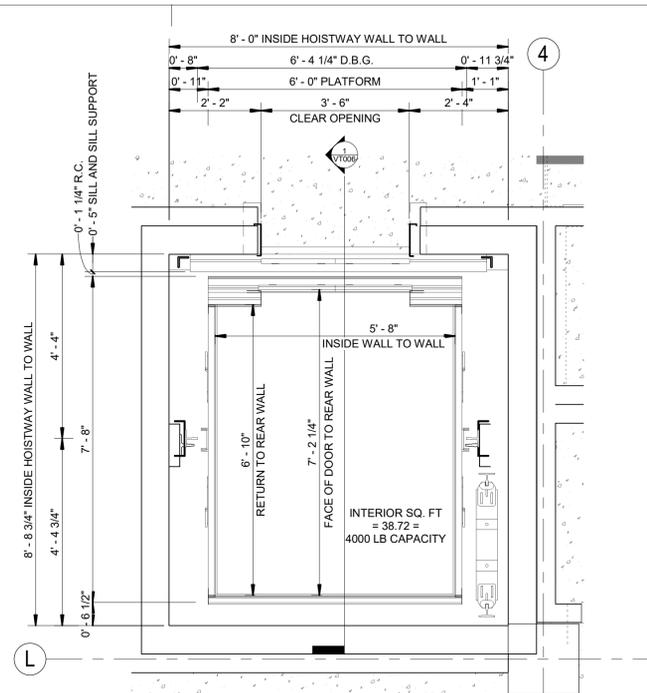
**VT004**



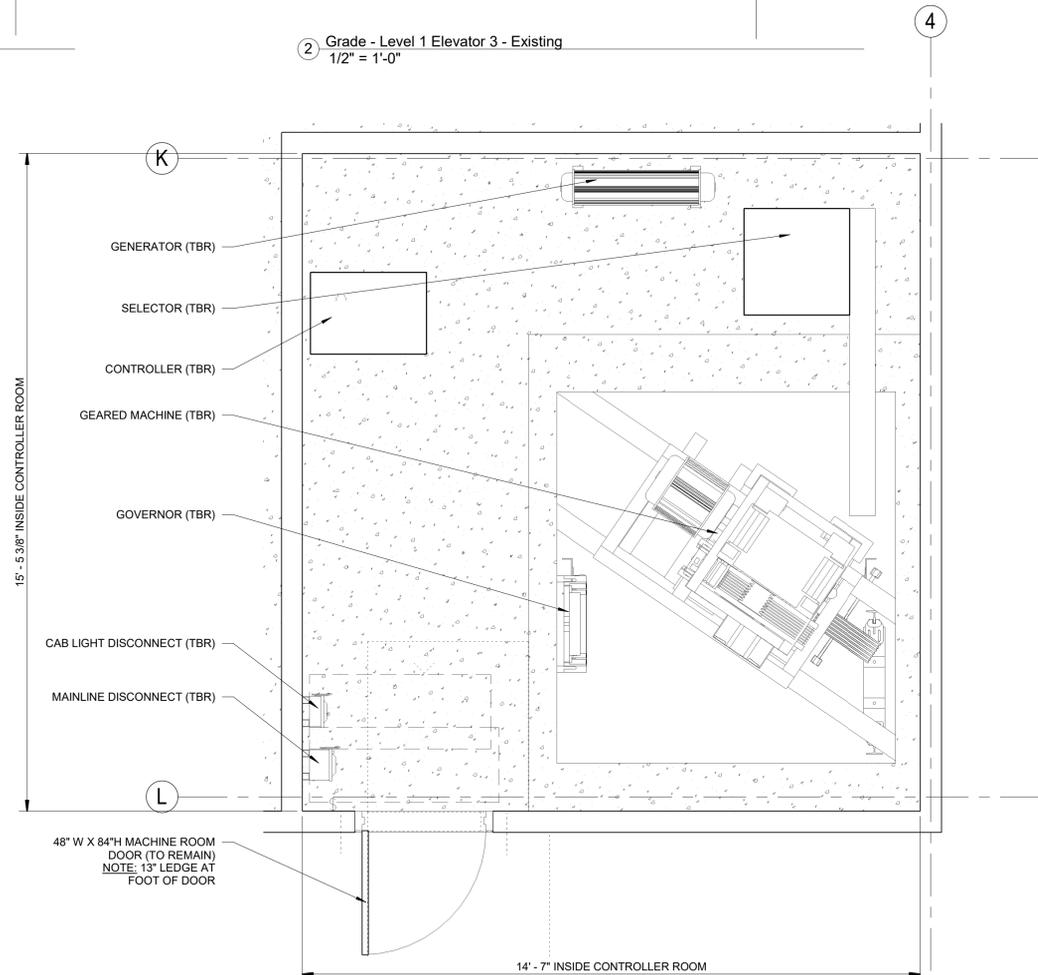
1 Elevator 3 Pit Level - Existing  
 1/2" = 1'-0"



2 Grade - Level 1 Elevator 3 - Existing  
 1/2" = 1'-0"



3 Level 8 - Elevator 3 - Existing  
 1/2" = 1'-0"



4 Elevator 3 MR Level - Existing  
 1/2" = 1'-0"

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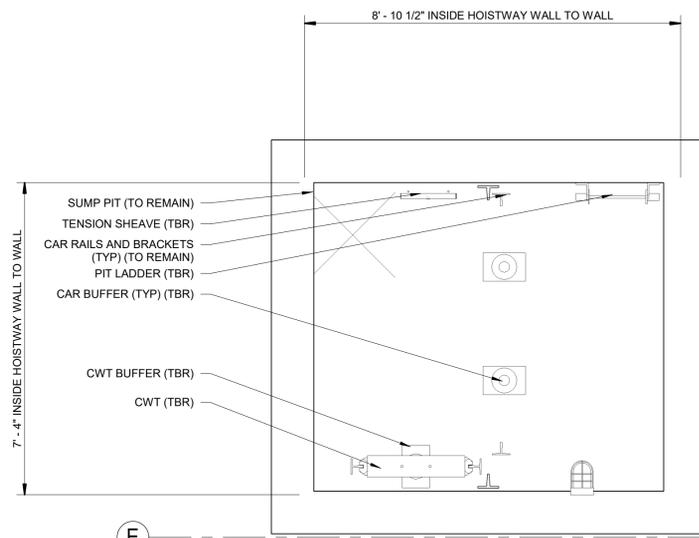
ISSUE DATE  
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SHEET TITLE

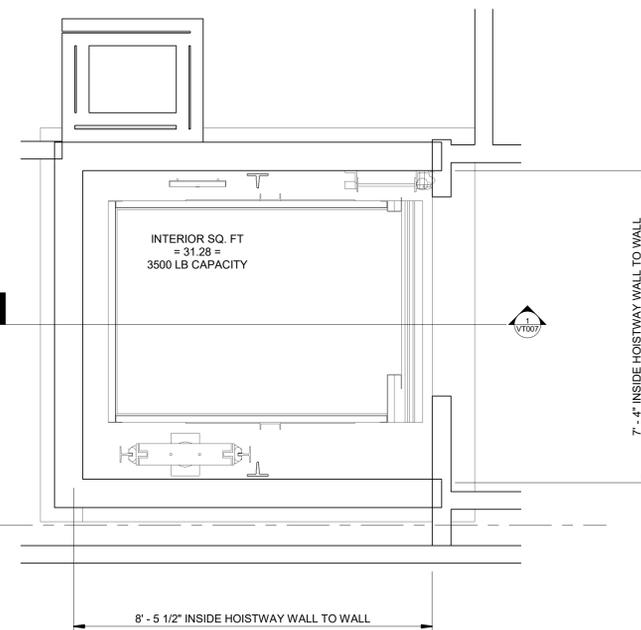
ELEVATOR 7 EXISTING PLANS

SHEET NO.

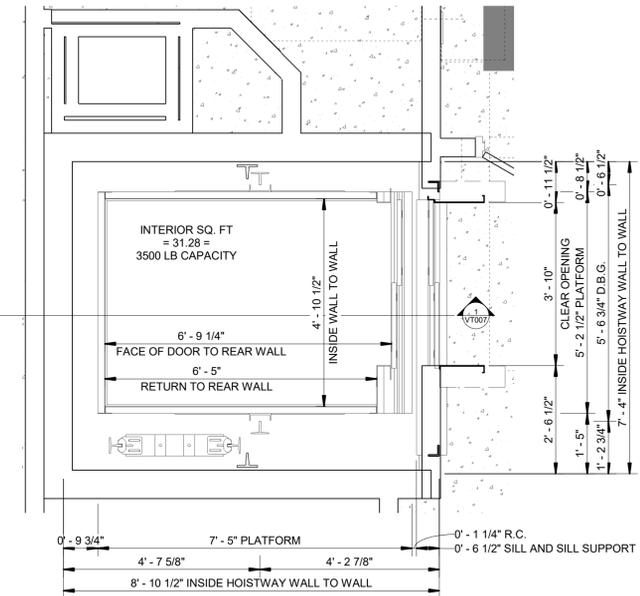
**VT005**



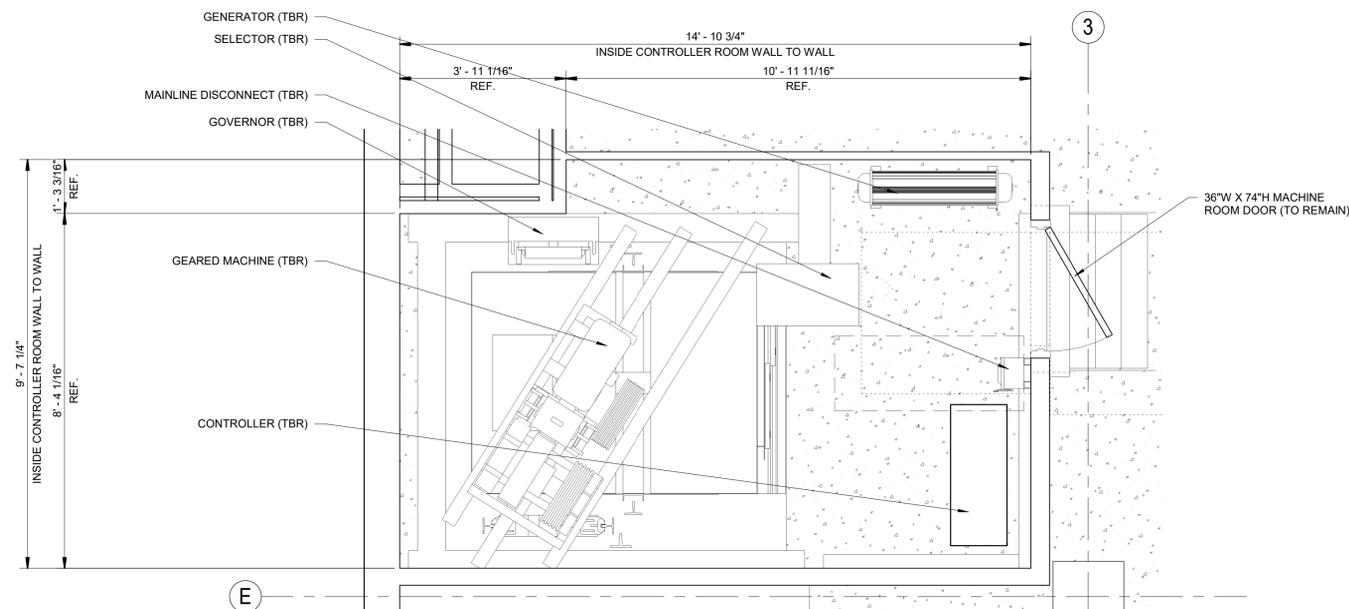
1 Elevator 7 Pit Level - Existing  
 1/2" = 1'-0"



2 Grade - Level 1 Elevator 7 - Existing  
 1/2" = 1'-0"



3 Level 4 - Elevator 7 - Existing  
 1/2" = 1'-0"



4 Elevator 7 MR Level - Existing  
 1/2" = 1'-0"

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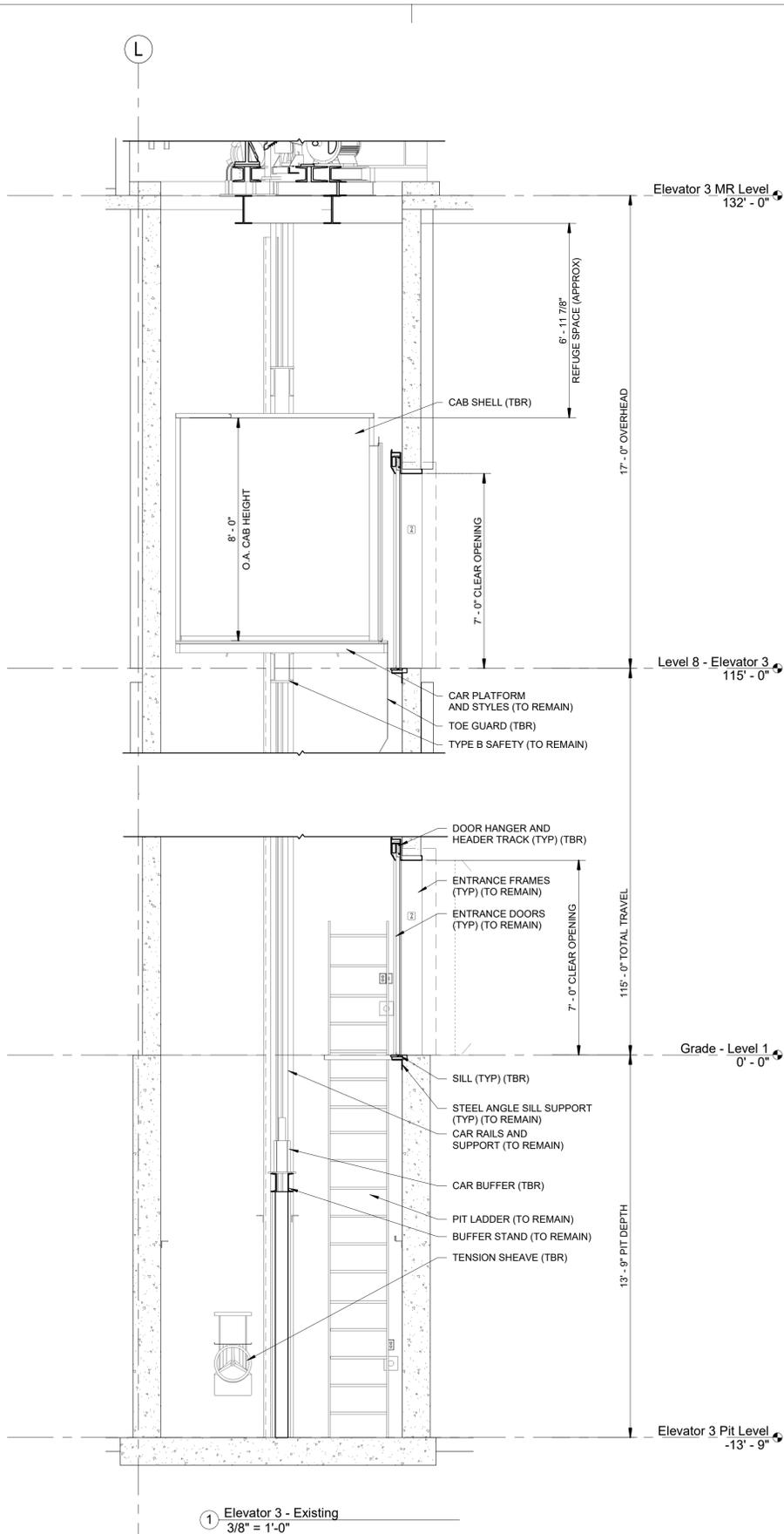
ISSUE DATE  
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SHEET TITLE

ELEVATOR 3 EXISTING SECTION  
 THRU HOISTWAY

SHEET NO.

**VT006**



ELEVATOR 3 TRAVEL	
LEVEL 1	15'-0"
LEVEL 2	34'-0"
LEVEL 4	32'-0"
LEVEL 6	17'-0"
LEVEL 7	17'-0"
LEVEL 8	TERMINAL FLOOR

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PROJECT NO.

ISSUE DATE  
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SHEET TITLE

ELEVATOR 7 EXISTING SECTION  
 THRU HOISTWAY

SHEET NO.

**VT007**

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Elevator 7 MR Level  
 63' - 9"

Level 4 - Elevator 7  
 49' - 0"

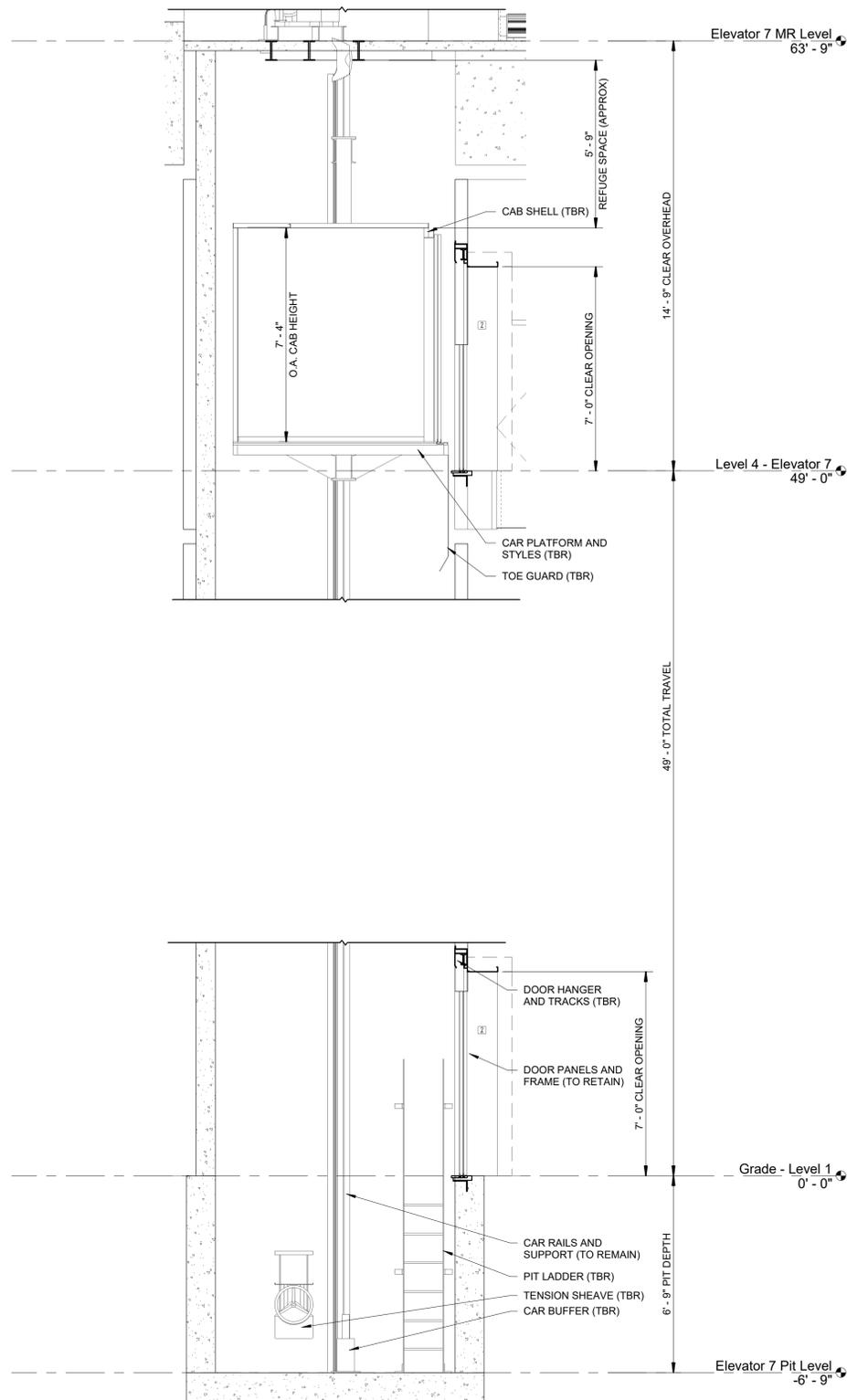
Grade - Level 1  
 0' - 0"

Elevator 7 Pit Level  
 -6' - 9"

**ELEVATOR 7 TRAVEL**

LEVEL 1	15'-0"
LEVEL 2	17'-0"
LEVEL 3	17'-0"
LEVEL 4	TERMINAL FLOOR

① Elevator 7 - Existing  
 3/8" = 1'-0"





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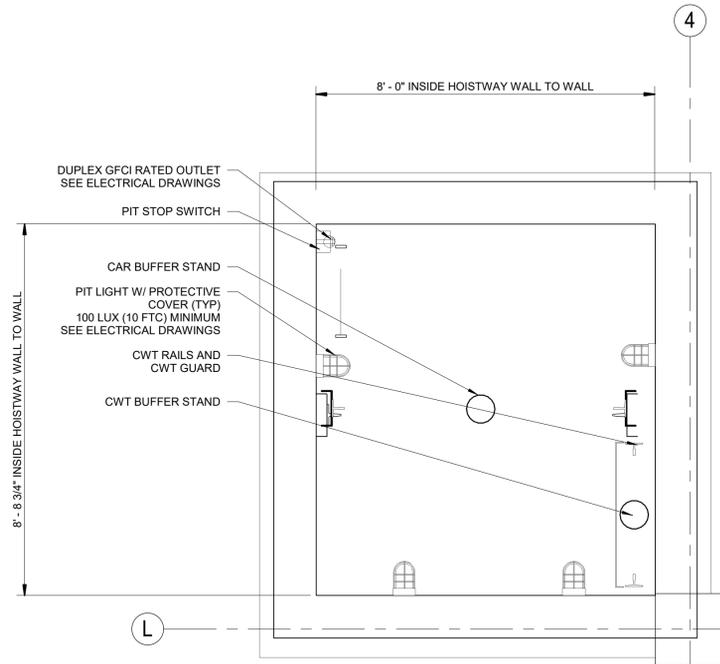
ISSUE DATE  
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SHEET TITLE

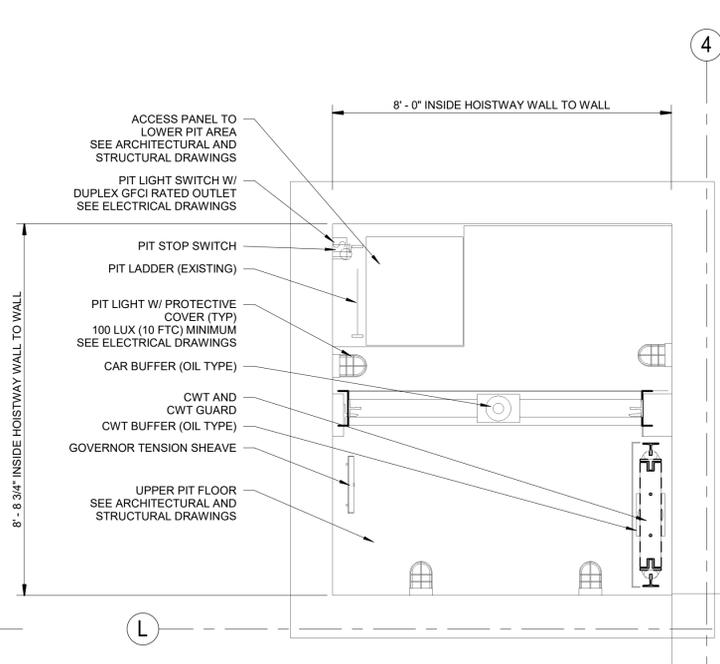
ELEVATOR 3 NEW PLANS

SHEET NO.

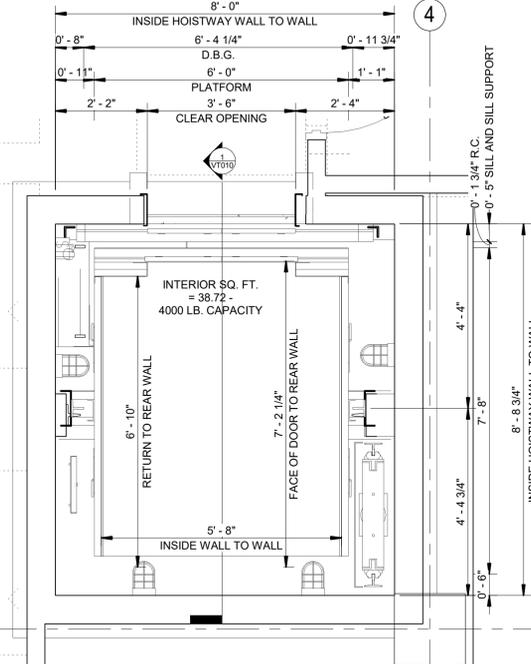
**VT008**



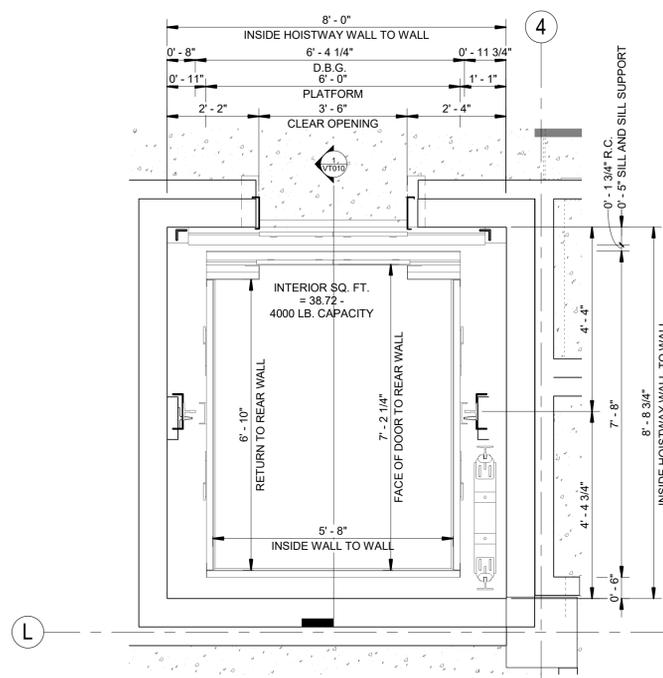
1 Elevator 3 Lower Pit Level  
 1/2" = 1'-0"



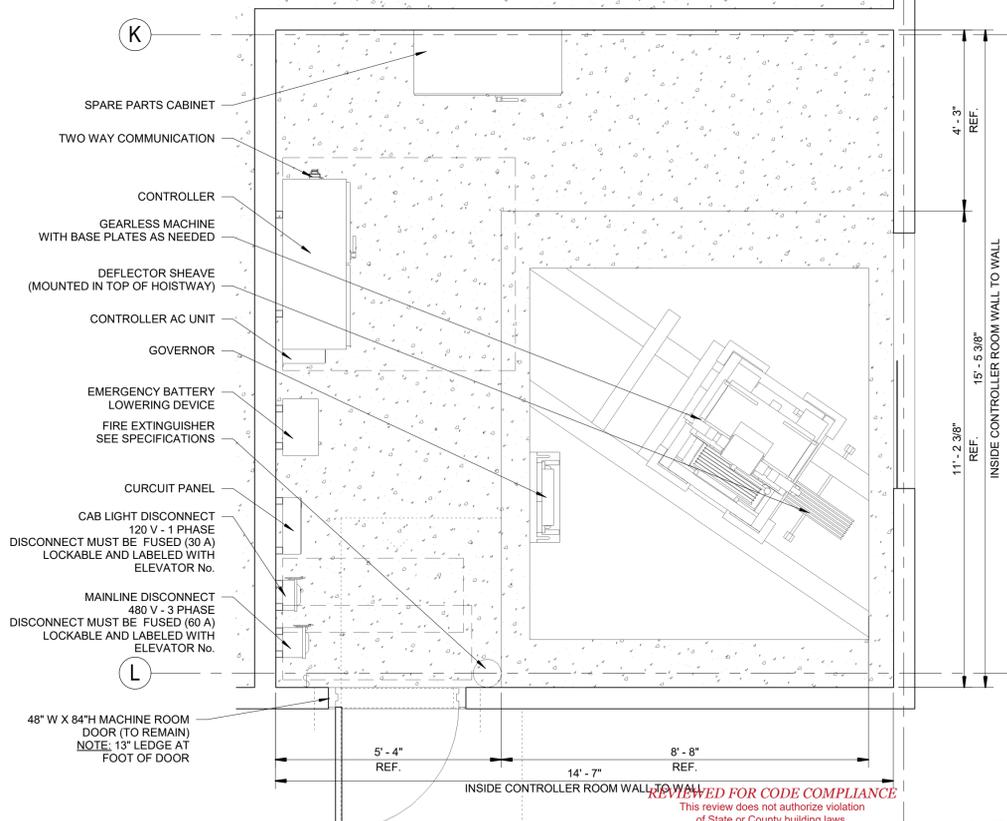
2 Elevator 3 Upper Pit Level  
 1/2" = 1'-0"



3 Grade - Level 1 Elevator 3 - New  
 1/2" = 1'-0"



4 Level 8 - Elevator 3 - New  
 1/2" = 1'-0"



5 Elevator 3 MR Level - New  
 1/2" = 1'-0"

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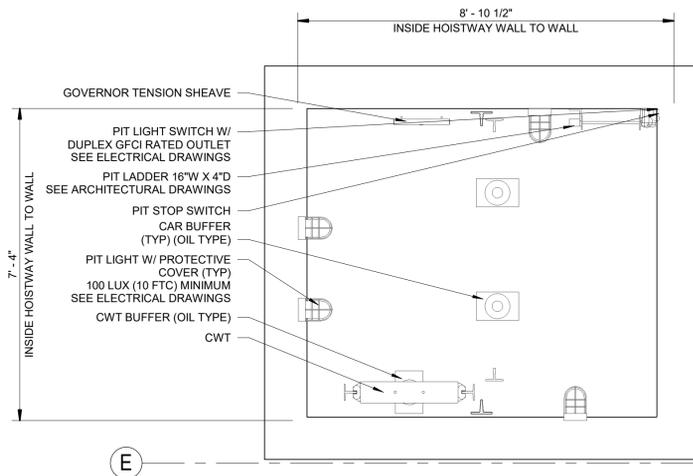
ISSUE DATE  
 100% SET 10/14/21

SHEET TITLE

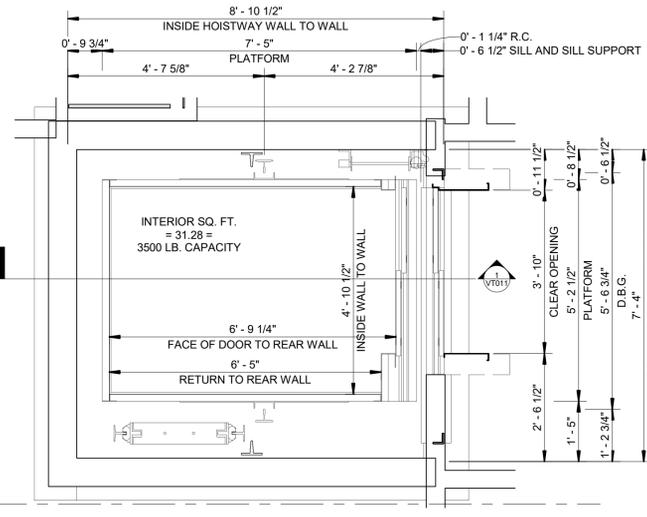
ELEVATOR 7 NEW PLANS

SHEET NO.

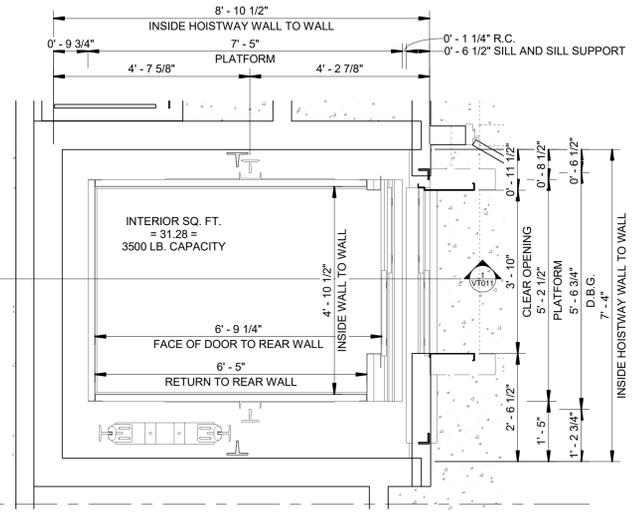
**VT009**



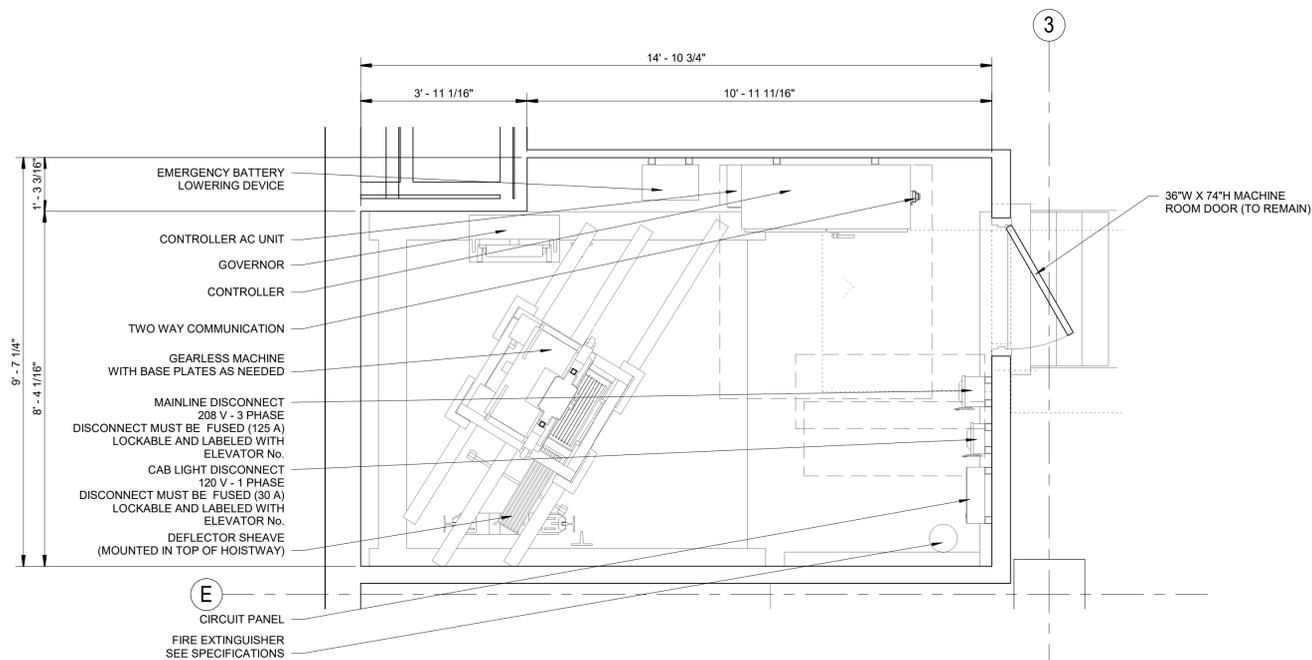
1 Elevator 7 Pit Level - New  
 1/2" = 1'-0"



2 Grade - Level 1 Elevator 7 - New  
 1/2" = 1'-0"



3 Level 4 - Elevator 7 - New  
 1/2" = 1'-0"



4 Elevator 7 MR Level - New  
 1/2" = 1'-0"

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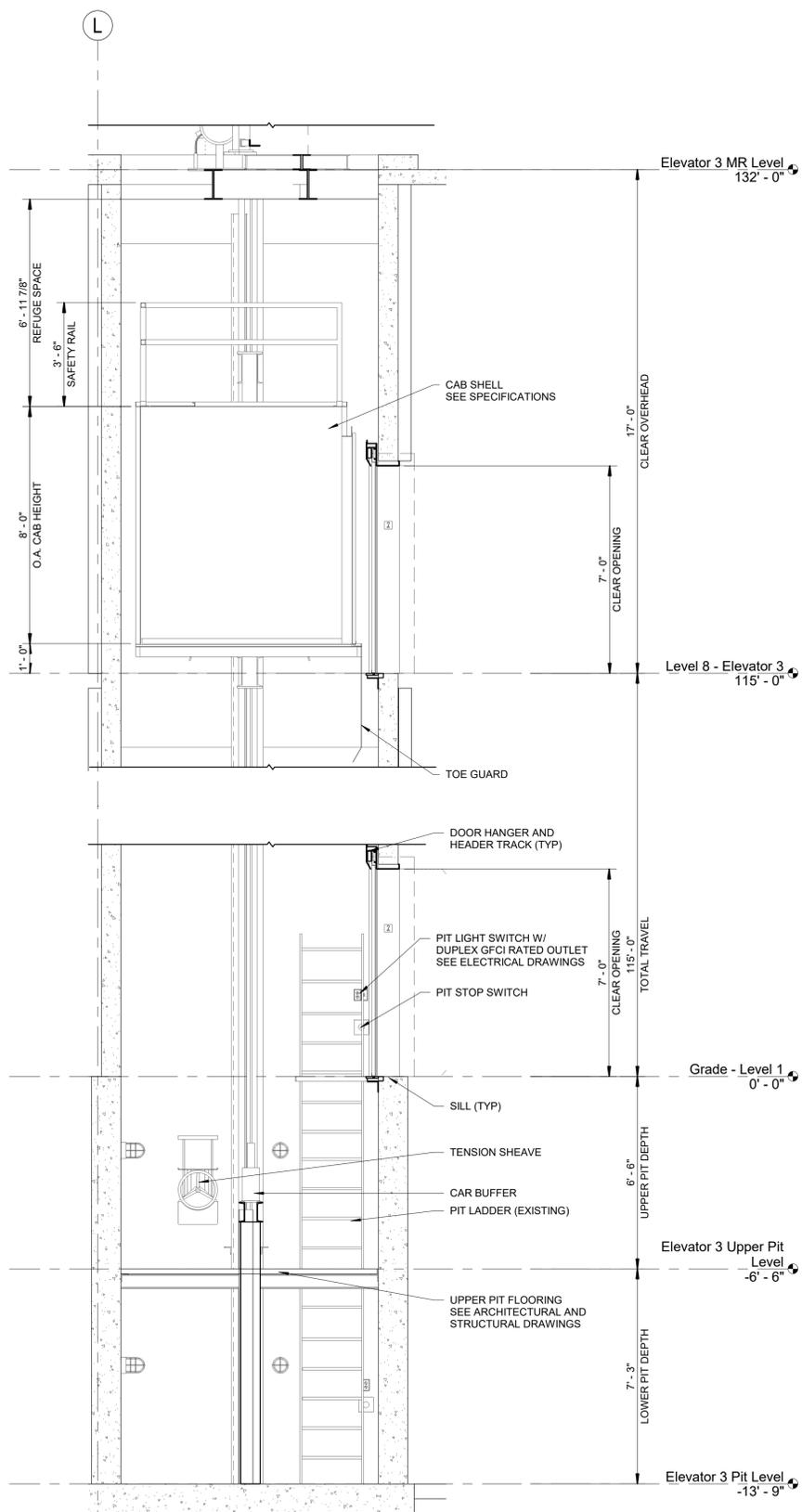
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SHEET TITLE

ELEVATOR 3 NEW SECTION THRU  
 HOISTWAY

SHEET NO.

**VT010**



LEVEL	HEIGHT
LEVEL 1	15'-0"
LEVEL 2	34'-0"
LEVEL 4	32'-0"
LEVEL 6	17'-0"
LEVEL 7	17'-0"
LEVEL 8	TERMINAL FLOOR

1 Elevator 3 - New  
 3/8" = 1'-0"

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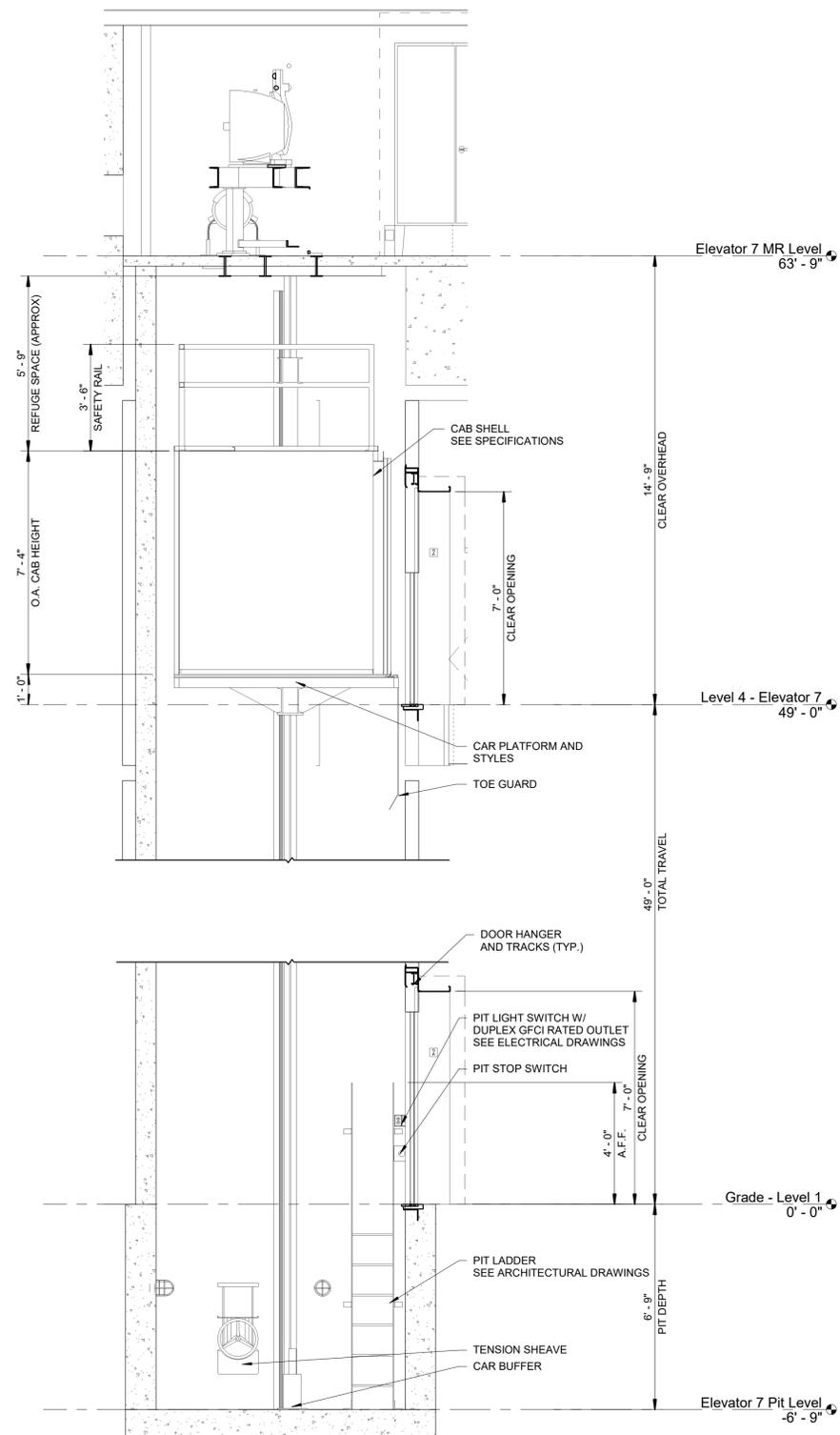
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ELEVATOR 7 NEW SECTION THRU  
 HOISTWAY

SHEET NO.

**VT011**



① Elevator 7 - New  
 3/8" = 1'-0"

ELEVATOR 7 TRAVEL	
LEVEL 1	15'-0"
LEVEL 2	17'-0"
LEVEL 3	17'-0"
LEVEL 4	TERMINAL FLOOR

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