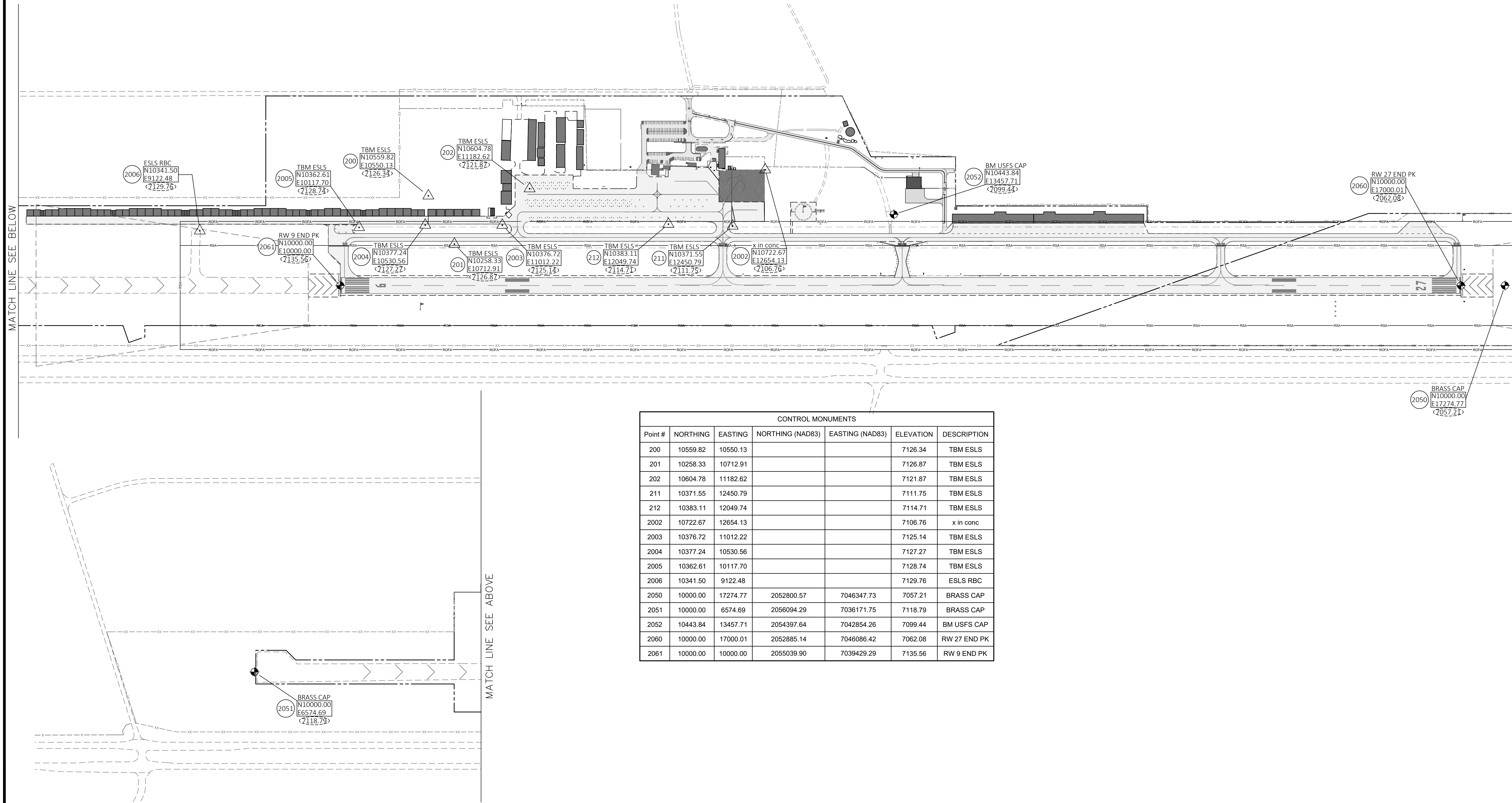
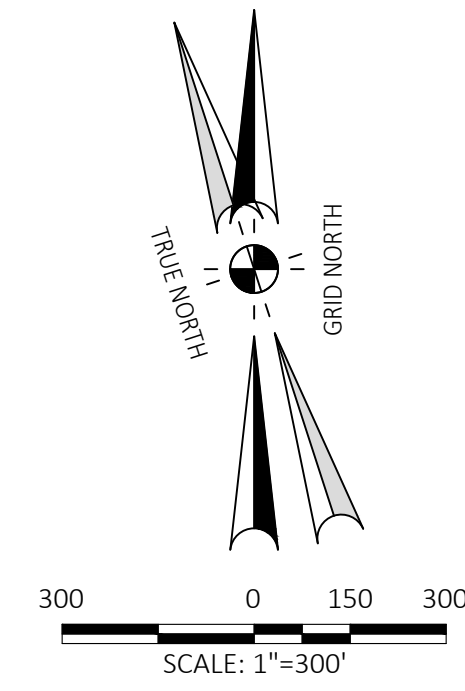


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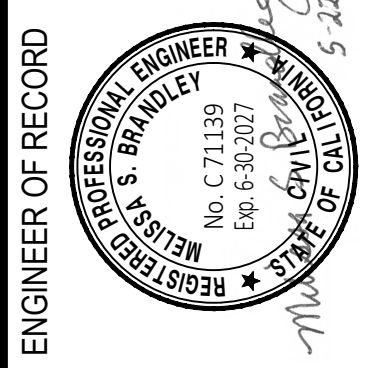
1. THE BASIS OF THE BEARING FOR THE AIRPORT COORDINATE SYSTEM IS THE CENTERLINE OF RUNWAY 9-27 WHICH BEARS EAST - WEST. THE RUNWAY 9 THRESHOLD IS ESTABLISHED AS N10000, E10000. STATIONING FOR THE RUNWAY CENTERLINE CORRESPONDS TO THE PROJECT GRID EASTING.
2. ALL MEASUREMENTS, PROJECT GRID COORDINATES, AND STATION VALUES SHOWN ARE GROUND DISTANCES. CONTROL POINTS ARE TIED TO THE STATE PLANE COORDINATE SYSTEM, NAD83, CALIFORNIA ZONE III AS SHOWN IN THE CONTROL POINT TABLE ON THIS SHEET.
3. THE BASIS FOR VERTICAL CONTROL SHALL BE POINT 2052 - USFS ALUM CAP, 7099.44'. ELEVATIONS BASED ON THE THE NORTH AMERICAN VERTICAL DATUM OF 1988, GEOID 12B.
4. TEMPORARY BENCHMARKS WERE SET JUNE AND DECEMBER 2020 BY EASTERN SIERRA LAND SURVEYING. CONTRACTOR SHALL VERIFY BENCHMARK LOCATION AND HEIGHT PRIOR TO USING AS LOCAL CONTROL.
5. CONTRACTOR SHALL PROTECT EXISTING MONUMENTS, BENCHMARKS, AND PROPERTY LINE MARKERS FROM DAMAGE.

LEGEND

- N9738.46
E13727.35
67.00 AIRPORT GRID COORDINATE
- EXISTING GRADE ELEVATION
- EXISTING PAVEMENT
- NEW PAVEMENT
- PROJECT AREA
- EXISTING SURVEY MONUMENT
- TEMPORARY BENCHMARK



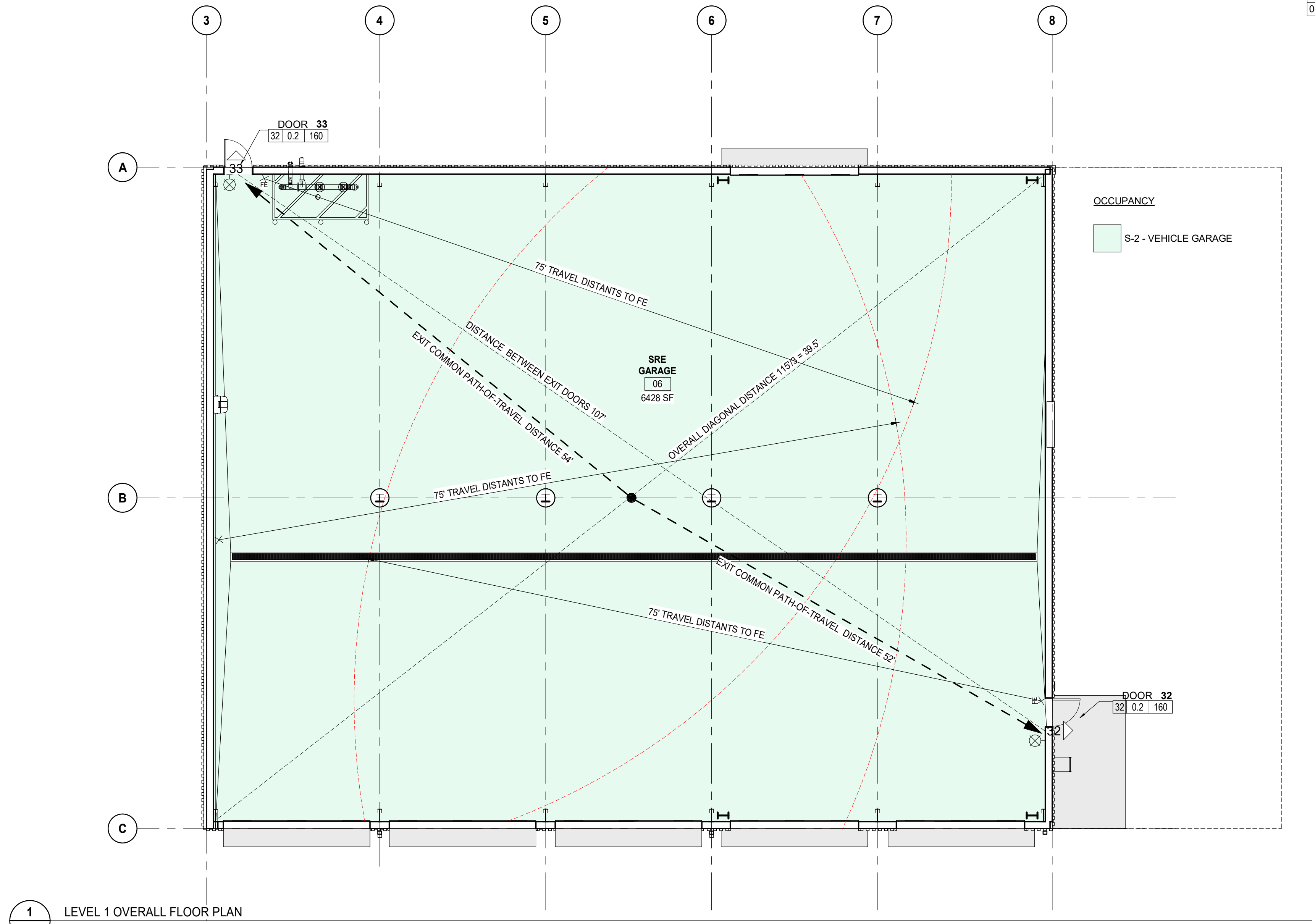
CONTROL MONUMENTS						
Point #	NORTHING	EASTING	NORTHING (NAD83)	EASTING (NAD83)	ELEVATION	DESCRIPTION
200	10559.82	10550.13			7126.34	TBM ESLS
201	10258.33	10712.91			7126.87	TBM ESLS
202	10604.78	11182.62			7121.87	TBM ESLS
211	10371.55	12450.79			7111.75	TBM ESLS
212	10383.11	12049.74			7114.71	TBM ESLS
2002	10722.67	12654.13			7106.76	x in conc
2003	10376.72	11012.22			7125.14	TBM ESLS
2004	10377.24	10530.56			7127.27	TBM ESLS
2005	10362.61	10117.70			7128.74	TBM ESLS
2006	10341.50	9122.48			7129.76	ESLS RBC
2050	10000.00	17274.77	2052800.57	7046347.73	7057.21	BRASS CAP
2051	10000.00	6574.69	2056094.29	7036171.75	7118.79	BRASS CAP
2052	10443.84	13457.71	2054397.64	7042854.26	7099.44	BM USFS CAP
2060	10000.00	17000.01	2052885.14	7046086.42	7062.08	RW 27 END PK
2061	10000.00	10000.00	2055039.90	7039429.29	7135.56	RW 9 END PK



REVISIONS	DATE	BY

MAMMOTH YOSEMITE AIRPORT
 CALIFORNIA
SNOW REMOVAL EQUIPMENT BUILDING
 COORDINATE LAYOUT PLAN

DATE	3/26/2026
DRAWN	KDC
CHECKED	MSB
PROJECT No.	75.22
FILE#522-2.C0102.COORD	
SCALE	1"=300'
SHEET No.	A01-03



1 LEVEL 1 OVERALL FLOOR PLAN
SCALE: 1/8" = 1'-0"

LEVEL 1 OCCUPANCY SCHEDULE					
Number	Name	Occupancy	Area	Load Factor	Occupant Load
06	SRE GARAGE	S-2 - VEHICLE GARAGE	6428 SF 6428 SF	200 SF	33

BUILDING INFORMATION			
CODES	2025 CALIFORNIA BUILDING CODE 2025 CALIFORNIA GREEN STANDARDS CODE 2025 CALIFORNIA MECHANICAL CODE 2025 CALIFORNIA PLUMBING CODE 2025 CALIFORNIA ELECTRICAL CODE 2025 CALIFORNIA FIRE CODE 2025 CALIFORNIA ENERGY CODE		
DESCRIPTION OF WORK	THE PROPOSED WORK IS THE CONSTRUCTION OF A NEW 6,428 GSF PRE-ENGINEERED METAL BUILDING PARKING STRUCTURE. THE PROPOSED BUILDING WILL BE CLASSIFIED AS AN S-2 PARKING GARAGE OCCUPANCY. THE PROPOSED USE WILL BE FOR THE STORAGE AND MAINTENANCE OF MAMMOTH AIRPORTS FACILITY WILL BE USED TO PARK OF MAMMOTH AIRPORTS SNOW REMOVAL EQUIPMENT (SRE).		
OCCUPANCY	S-2 SPRINKLERED		
CONSTRUCTION TYPE	V-B		
BUILDING HEIGHT (CBC TABLE 504.3)	ALLOWABLE = 60 FT ACTUAL = +/- 28 FT		
BUILDING STORIES (CBC TABLE 504.4)	ALLOWABLE = 2 ACTUAL = 1		
BUILDING AREA (CBC TABLE 506.2)	ALLOWABLE = 54,000 SF ACTUAL = 6,428 SF		
TOTAL ALLOWABLE AREA INCREASE (CBC CHAPTER 506)	N/A - BUILDING WITHIN CODE MINIMUMS		
FIRE-RESISTANCE RATING REQ'D'S (CBC TABLE 607.1) 1 (CBC TABLE 705.5 X ≥ 30 FT) 2 (CBC TABLE 702.2 > 30 FT)	FIRE RATING	REQUIRED	PROVIDED
	PRIMARY STRUCTURAL FRAME	0	0
	BEARING WALLS (EXT.)	0	0
	NON-BEARING INTERIOR WALLS	0	0
	FLOOR CONSTRUCTION	0	0
	ROOF CONSTRUCTION	0	0
	EXIT CORRIDOR	0	0

EXITING LEGEND AND NOTES

- > COMMON PATH OF EGRESS TRAVEL DISTANCE
 - [B] TACTILE EXIT SIGNAGE WITH 18"x18" CLEAR SPACE CENTERED ON TACTILE CHARACTERS. SEE DETAIL IN THIS SET, FOR MOUNTING LOCATIONS
 - FE PROVIDE LISTED AND LABELED DRY-CHEMICAL UL-RATED FIRE EXTINGUISHERS - SURFACE MOUNTED ON RATED AND AT NEW LOCATIONS ON EXISTING WALLS. SEMI-RECESSED OTHERWISE. SEE DETAIL IN THIS SET FOR MOUNTING HEIGHT
 - ◁ 1 OCCUPANT COUNT OF SPACE ▷ 1 EXITING OCCUPANT COUNT
 - ⊗ WALL - MOUNTED ILLUMINATED EXIT SIGNAGE
 - ⊗ CEILING - MOUNTED ILLUMINATED EXIT SIGNAGE
 - EXIT COMPONENT
 - STAIR XX* OCCUPANT LOAD
 - XX* MAX OCCUPANT LOAD
 - XX* LOAD FACTOR
 - XX* COMPONENT WIDTH
- CBC TABLE 1006.2.1 THE MAXIMUM OCCUPANT LOAD OF SPACE FOR ONE EXIT - MAXIMUM COMMON PATH FOR EGRESS TRAVEL DISTANCE WITH SPRINKLER SYSTEM S = 29 OCC. - 100 (FEET)
 - MAX OF 75' TRAVEL DISTANCE TO FIRE EXTINGUISHER CABINET
 - THE MINIMUM NUMBER OF FIRE EXTINGUISHERS FOR CLASS A HAZARDS FOR EACH FLOOR OF A BUILDING SHALL BE DETERMINED BY DIVIDING THE TOTAL FLOOR AREA BY THE MAXIMUM AREA TO BE PROTECTED PER EXTINGUISHER.
 - PROVIDE FIRE EXTINGUISHER SIGNAGE AT EACH FECC LOCATION PER CFC 1006 AND SIGNAGE DETAIL IN THIS SET
 - CBC TABLE 1006.2.1.1 A MINIMUM OF 2 EXITS SHALL BE PROVIDED FOR OCCUPANCY F-1 WITH AN OCCUPANT LOAD OF SPACE GREATER THAN 49 OCCUPANTS. SEE OCCUPANCY SCHEDULE.
 - < 501 OCCUPANTS, 3 EXITS NOT REQUIRED.
 - TOTAL (2) EXITS PROVIDED FOR EGRESS

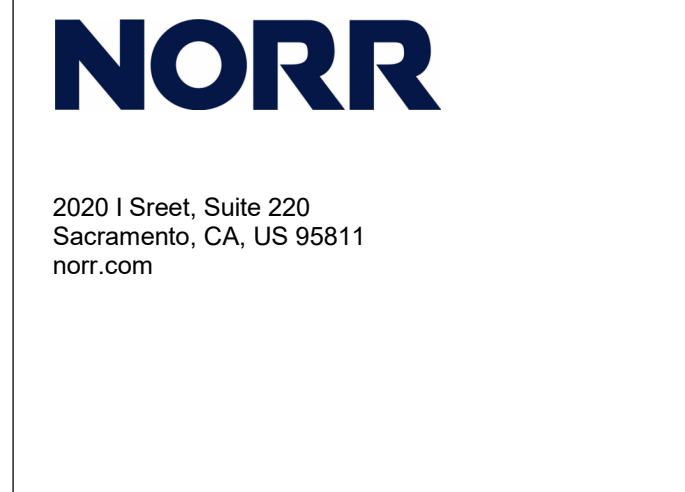
DATE	ISSUED FOR	REV
04/24/2026	95% CD Review Set	1

This drawing has been prepared solely for the use of MAMMOTH YOSEMITE AIRPORT and there are no representations of any kind made by NORR to any party with whom NORR has not entered into a contract.

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.

Project Component
Key Plan

Consultants
Survey: Brandley Engineering
Civil: Kimley-Horn
Architecture: NORR
Structural: Bevier Structural Eng
Mechanical: NORR
Electrical: NORR
Interiors: NORR
Fire Sprinkler: Sacramento Engineering Consultants



Project Manager: Drawn JON PRICE
Project Leader: Checked MIKE NOVAK

Client: MAMMOTH YOSEMITE AIRPORT

Project: MAMMOTH SRE BLUIDING

MAMMOTH CALIFORNIA
Drawing Title: BUILDING CODE ANALYSIS

Scale: As indicated

Project No.: IN2024-0022

Drawing No.: A02-01

DOOR & FRAME SCHEDULE														
DOOR NO.	TYPE	DOOR PARAMETERS				GLASS		FRAME PARAMETERS		Head Detail	Jamb Detail	SILL	Fire Rating	COMMENTS
		WIDTH	HEIGHT	THK	MATL	TYPE	FINISH	TYPE	FINISH					
06B	OH	16' - 0"	18' - 0"	1 1/2"	HM	CLR	PTD	STL	PTD					SEE SPECIFICATIONS FOR HARDWARE
06C	OH	16' - 0"	18' - 0"	1 1/2"	HM	CLR	PTD	STL	PTD					SEE SPECIFICATIONS FOR HARDWARE
06D	OH	16' - 0"	18' - 0"	1 1/2"	HM	CLR	PTD	STL	PTD					SEE SPECIFICATIONS FOR HARDWARE
06E	OH	14' - 0"	18' - 0"	1 1/2"	HM	CLR	PTD	STL	PTD					SEE SPECIFICATIONS FOR HARDWARE
06F	OH	14' - 0"	18' - 0"	1 1/2"	HM	CLR	PTD	STL	PTD					SEE SPECIFICATIONS FOR HARDWARE
06G	OH	14' - 0"	18' - 0"	1 1/2"	HM	CLR	PTD	STL	PTD					SEE SPECIFICATIONS FOR HARDWARE
06H	NL	3' - 0"	7' - 0"	1 3/4"	HM	CLR	PTD	HM	PTD	1/A05-01	2/A05-01	3/A05-01	4	
06J	NL	3' - 0"	7' - 0"	1 3/4"	HM	CLR	PTD	HM	PTD	1/A05-01	2/A05-01	3/A05-01	4	

HARDWARE GROUPS:

#4 EXTERIOR	3-HINGES 1-CARD READER 1-LOCK 1-ELECTRIC STRIKE 1-CLOSER 1-FLOOR STOP 3-SIDES-SILENCER 1-FLOOR SWEEP 1-DOOR POSITION SWITCH 1-THRESHOLD 1-PANIC BAR	5BB1 4.5x4.5/852/VE HID MINIPROX-IAA ND50PD-SPA LEVER/826/SCH 7100 SERIES-AR 4111/888/LCN FS434530/VE SR84GRY/VE 18100-PEM 32871-SGT 346/688/VE 8000 SERIES/888/DMA
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#4A EXTERIOR	3-HINGES 1-CARD READER 1-LOCK 1-CLOSER 1-PANIC BAR 1-FLOOR STOP 3-SIDES-SILENCER 1-FLOOR SWEEP 1-DOOR POSITION SWITCH 1-THRESHOLD	5BB1 4.5x4.5/852/VE HID MINIPROX-IAA ND50PD-SPA LEVER/826/SCH 4111/888/LCN 8000 SERIES/888/DMA FS434530/VE SR84GRY/VE 18100-PEM 32871-SGT 346/688/VE
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#5 SECTIONAL DOOR

1-POWERED OPERATOR BY MFR
1-DOOR POSITION SWITCH

#6 - ENTRY

3-HINGES
1-CARD READER
1-PASSAGE LATCH
1-FLOOR STOP
3-SIDES-SILENCER

5BB1 4.5x4.5/852/VE
HID MINIPROX-IAA
L8486/826/SCH
FS434530/VE
SR84GRY/VE

DOOR / FRAME LEGENDS & ABBREVIATIONS

LEGEND / ABBREVIATIONS

ALUM ALUMINUM
ANOD ANODIZED
CLR CLEAR
DCRON DURACRON
DNAR DURANAR
EXT EXTERIOR
F FRAME
G () GLASS (Type)
GA GLAZED ALUMINUM
GALV GALVANIZED
GWS GEORGIAN WIRE GLASS
HCW HOLLOW CORE WOOD
HM HOLLOW METAL
HR HOUR
INSUL INSULATED
MIN MINUTE
N/A NOT APPLICABLE
NF NO FRAME (FRAMELESS)
PC POWDER COAT
PS PRESSED STEEL
PTD PAINTED
SCW SOLID CORE WOOD
SS STAINLESS STEEL
STL STEEL
TSG TEMPERED SAFETY GLASS
WD WOOD
WV WOOD VENEER

DOOR TYPES LEGEND

BF BIFOLD DOOR
CD COLING DOOR
CS COUNTER SHUTTER
DD DOUBLE SWING DOOR
GA GLAZED ALUMINUM DOOR
GL GLASS DOOR
HD HANGAR DOOR
ID IMPACT DOOR
OH OVERHEAD DOOR
RE REVOLVING DOOR
RO ROLLING DOOR
RR RAPID ROLL DOOR
SD SINGLE SWING DOOR
SL SLIDING DOOR
SP SPECIAL DOOR (define and detail)

CORE LEGEND

GYP GYPSUM
HC HOLLOW CORE
HO HONEY-COMB
ISO POLYISOCYANURATE
MF MINERAL FIBRE
PO POLYSTYRENE
SC SOLID CORE
UR POLYURETHANE

DUITY LEGEND

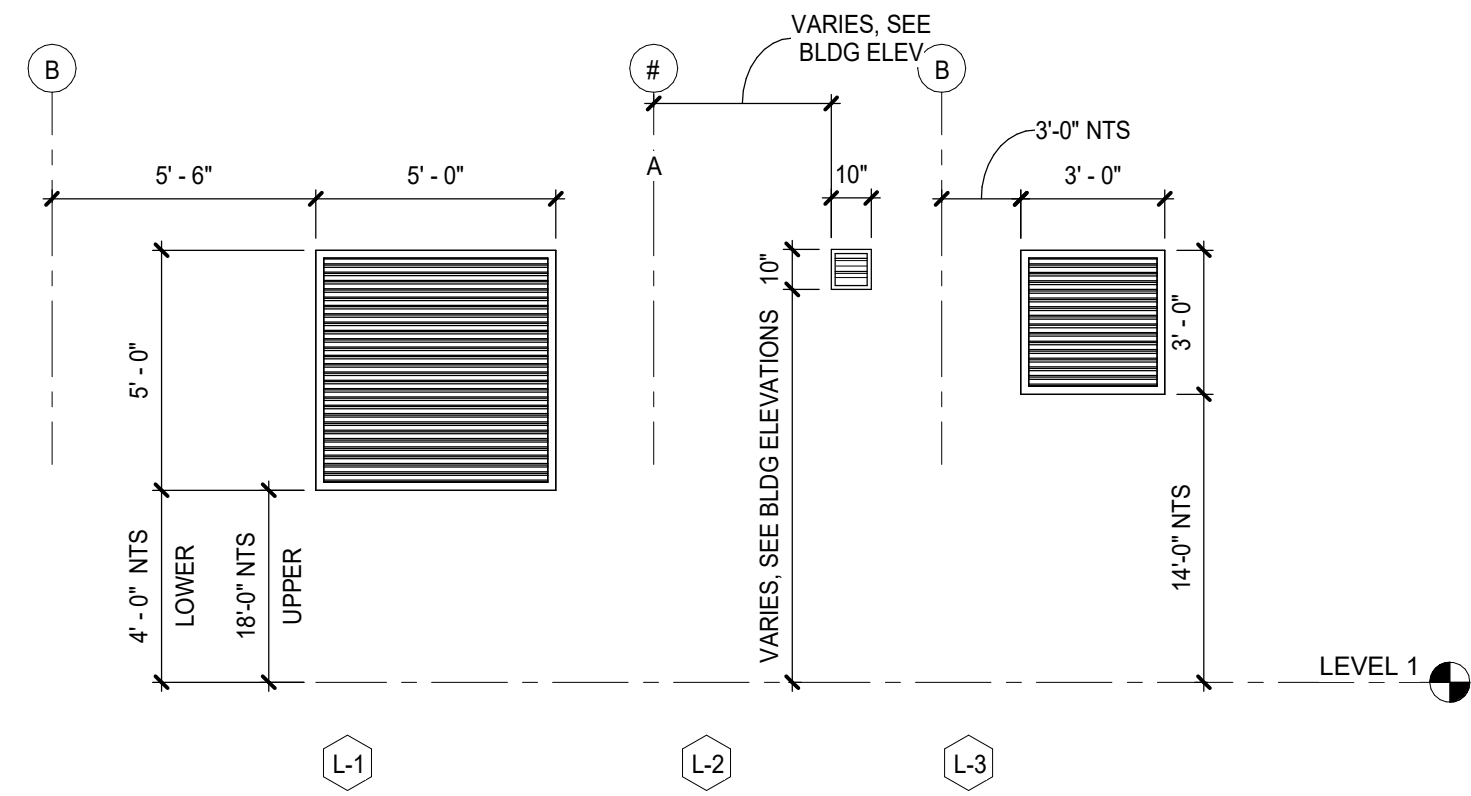
MED MEDIUM
STD STANDARD
HVV HEAVY
X-HVV EXTRA HEAVY

DOOR AND FRAME GENERAL NOTES

1. REFER TO SPECIFICATIONS OR FINISH IDENTIFICATION SCHEDULE FOR DESCRIPTION OF FINISHES AND COLOURS

WINDOW SCHEDULE									
Mark	Count	WIDTH	HGT	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	FRAME	Glazing Type	Description
W-5	1	88"-4"	3'-0"	11/A50-01	12/A50-01	13/A50-01	ALUM	THEMAL	
W-6	1	5'-0"	7'-0"	2/A50-02	9/A50-01	1/A50-02	ALUM	THEMAL	

LOUVER SCHEDULE					
TYPE MARK	COUNT	HEAD DTL.	JAMB DTL.	SILL DTL.	COMMENTS
L-1	2	1/A50-02-5/A50-02	4/A50-02	2/A50-02-3/A50-02	HEAD/SILL DETAIL VARY. SEE ELEVATION
L-2	2	3/A50-02	4/A50-02	5/A50-02	



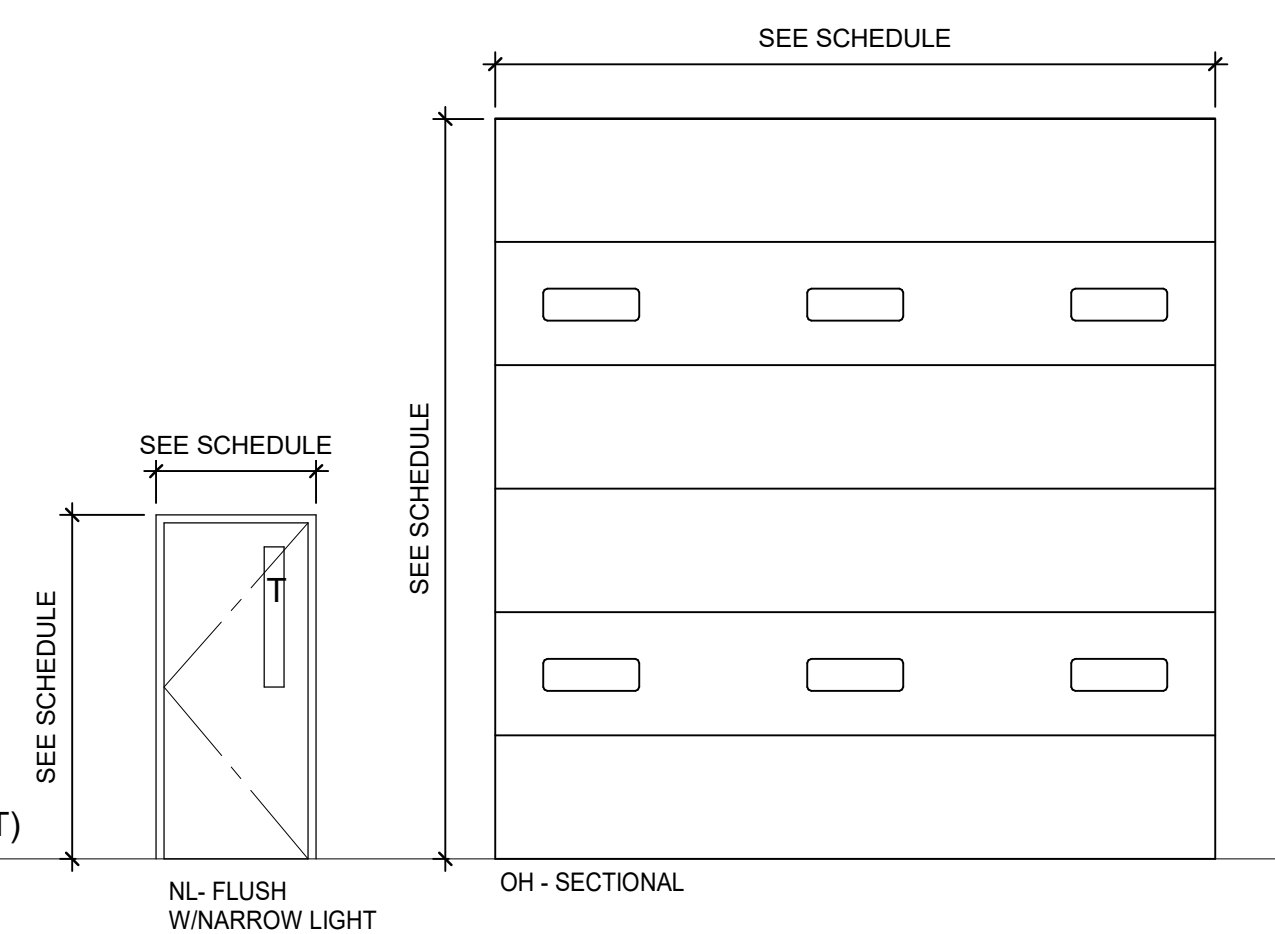
LOUVER LEGEND

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

DOOR/WINDOW:
WD = WOOD
AL = ALUMINUM AND GLAZING*
PT = PAINTED
FF = FACTORY FINISH

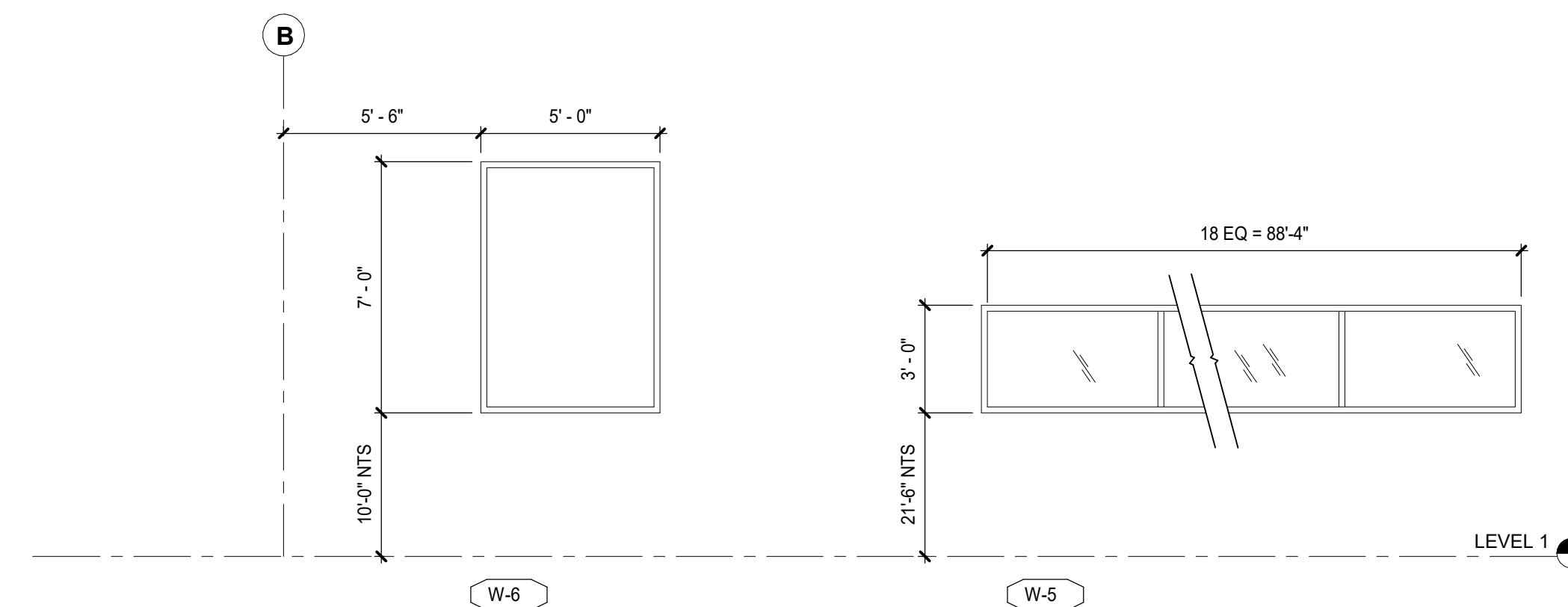
FRAME:
HM = HOLLOW METAL
AL = ALUMINUM
PT = PAINTED
FF = FACTORY FINISH

*TEMPERED GLAZING IDENTIFIED BY SYMBOL (T)



DOOR LEGEND

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



WINDOW LEGEND

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

DATE	ISSUED FOR	REV

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This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.

Project Component

Key Plan

Consultants	
Survey:	Brandley Engineering
Civil:	Kimley-Horn
Architecture:	NORR
Structural:	Bever Structural Eng
Mechanical:	NORR
Electrical:	NORR
Interiors:	NORR
Fire Sprinkler:	Sacramento Engineering Consultants

Seal(s)



NORR

2020 I Street, Suite 220
Sacramento, CA, US 95811
norr.com

Project Manager	Drawn
Project Leader	Checked
	MIKE NOVAK

Client
MAMMOTH YOSEMITE AIRPORT

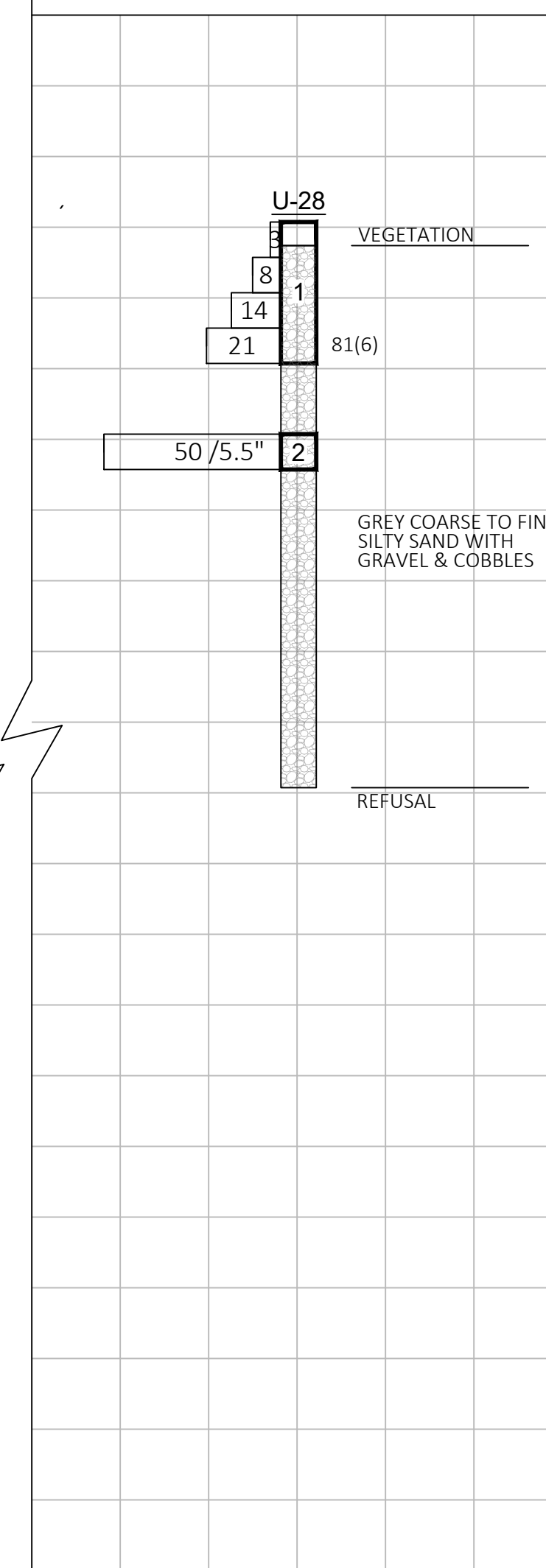
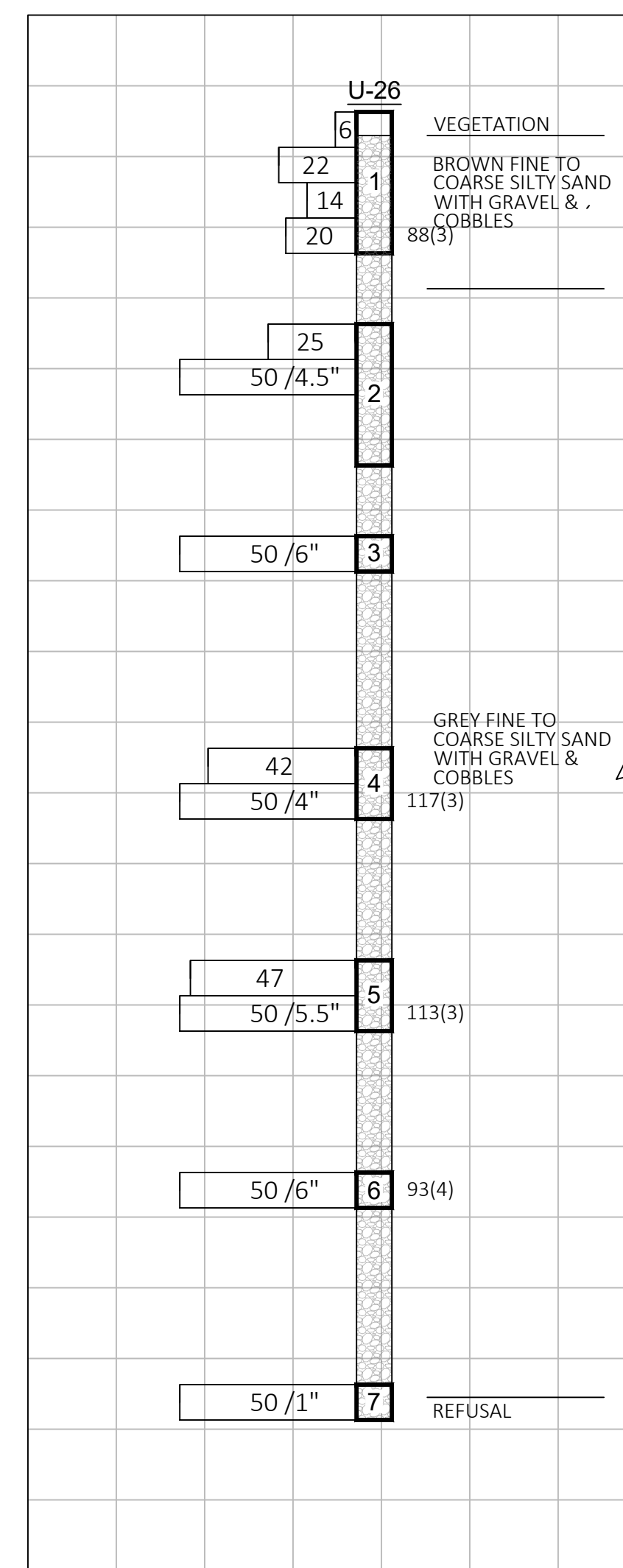
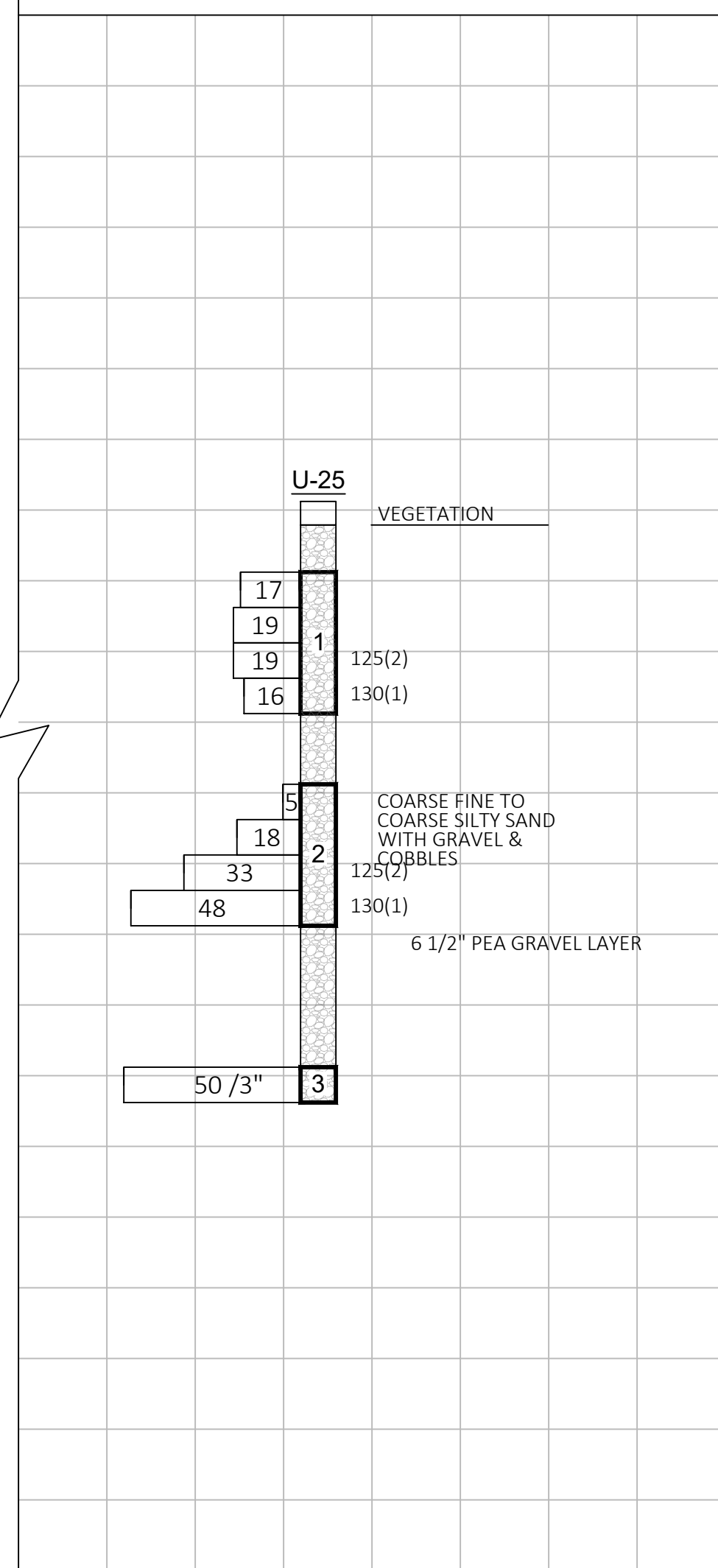
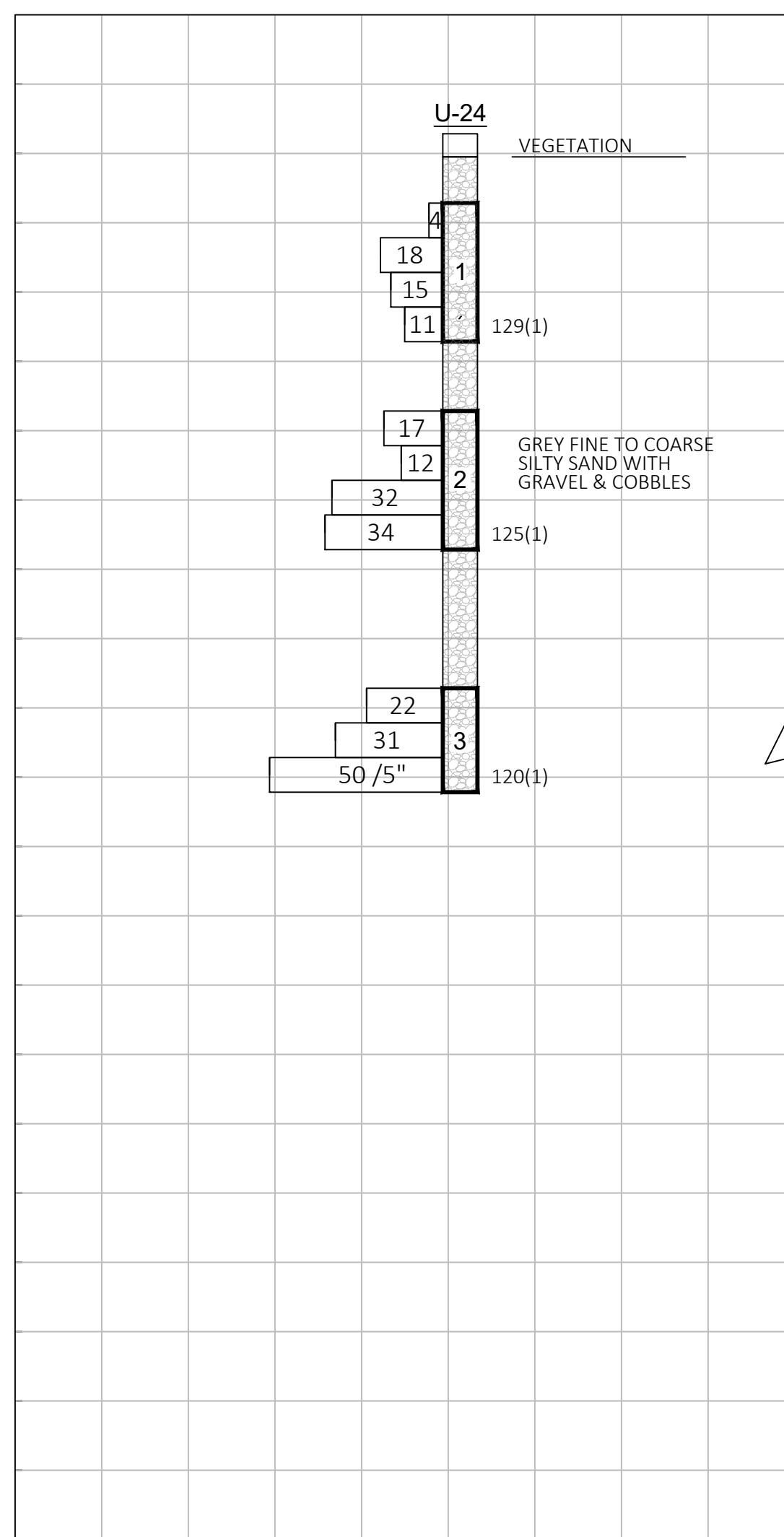
Project
MAMMOTH SRE BLUIDING

MAMMOTH, CALIFORNIA
Drawing Title
DOOR, WINDOW & LOUVER SCHEDULES

Scale
As indicated

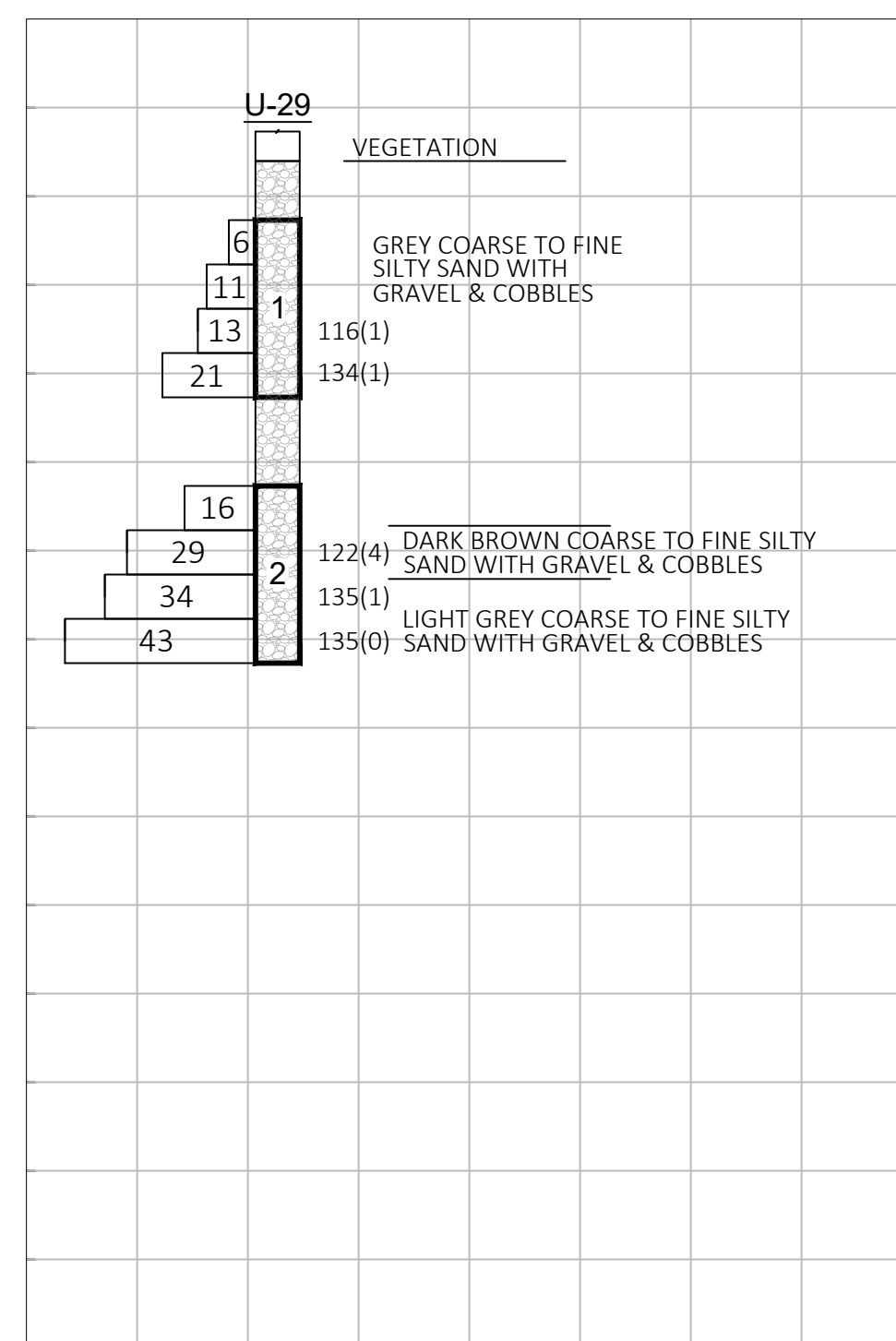
Project No.
IN2024-0022

Drawing No.
A05-01

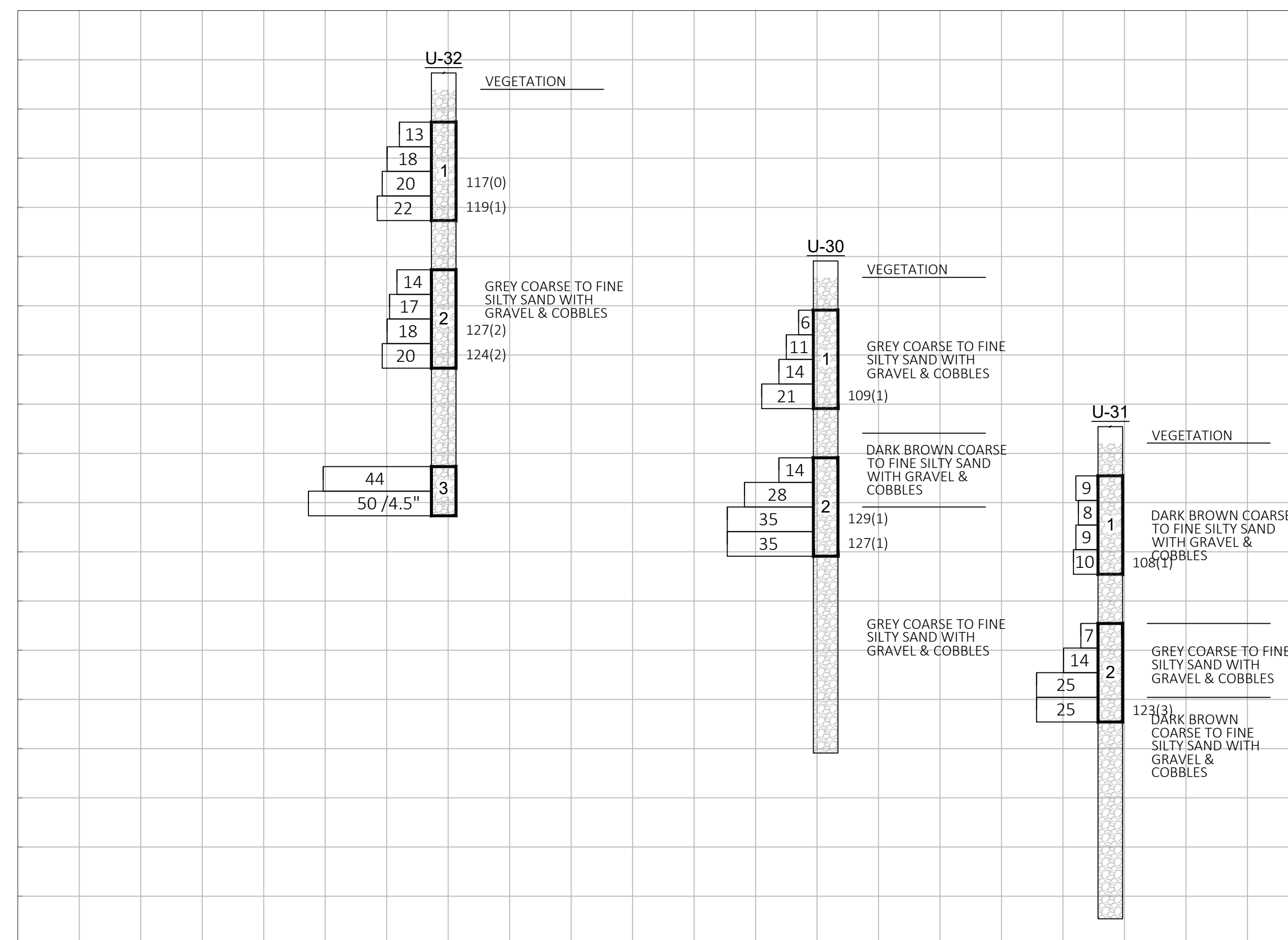


SECTION A-A

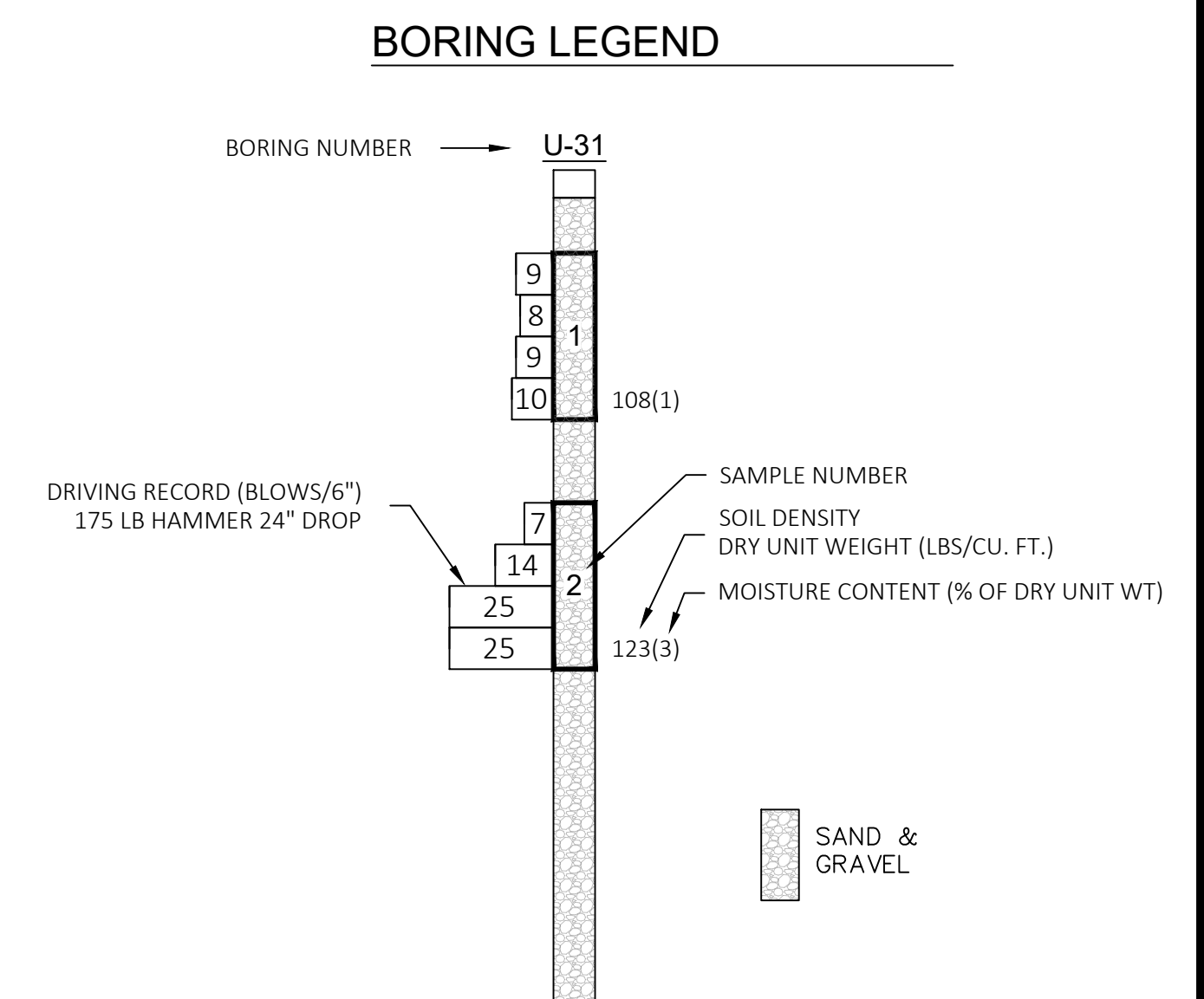
SECTION B-B




SECTION C-C



SECTION D-D



G:\75 MAMMOTH\21-22 AFFX BLD252-2 SRE SITE\7522-2.C0103.SOILS.DWG PLOTTED BY Kevin Curry 5/28/2026 9:38 AM



6125 KING ROAD, SUITE 201 · LOOMIS, CALIFORNIA 95650 · (916) 652-4725

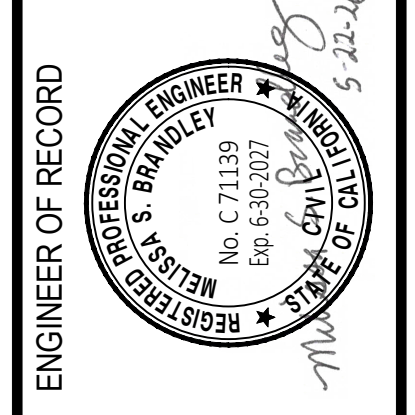
ENGINEER OF RECORD	BY	APR	DATE	
REVISIONS				
No.				



MAMMOTH YOSEMITE AIRPORT
CALIFORNIA

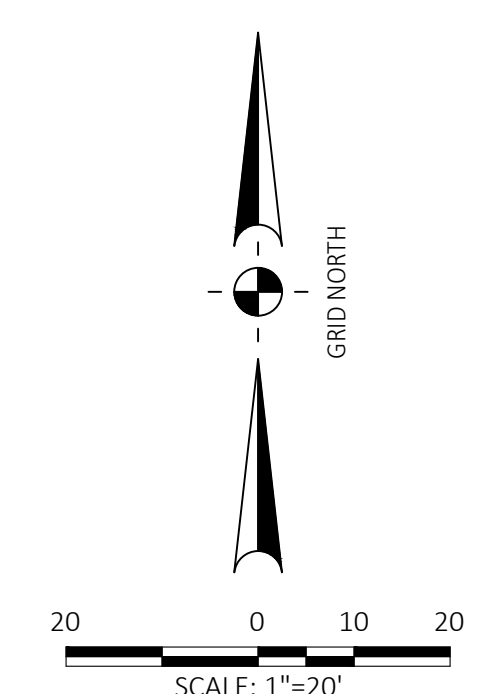
SNOW REMOVAL EQUIPMENT BUILDING
TESTHOLE BORING LOGS

DATE	3/26/2026
DRAWN	TS
CHECKED	MSB
PROJECT No.	75.22
FILE	7522-2.C0103.Soils
SCALE	NO SCALE
SHEET No.	C01-03



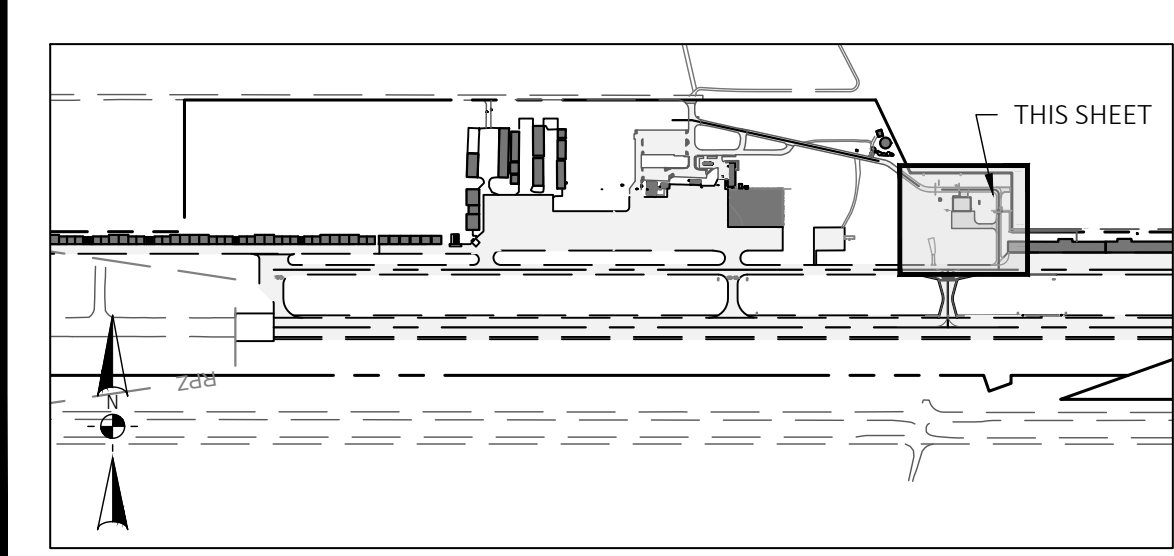
REVISIONS	BY	DATE

MAMMOTH LAKES	CALIFORNIA	MAMMOTH YOSEMITE AIRPORT
		SNOW REMOVAL EQUIPMENT BUILDING
		GRADING PLAN
DATE	3/26/2026	
DRAWN	KDC	
CHECKED	MSB	
PROJECT No.	75.22	
FILE	7522-2.C0301.GRAD	
SCALE	1"=30'	
SHEET No.	C03-01	

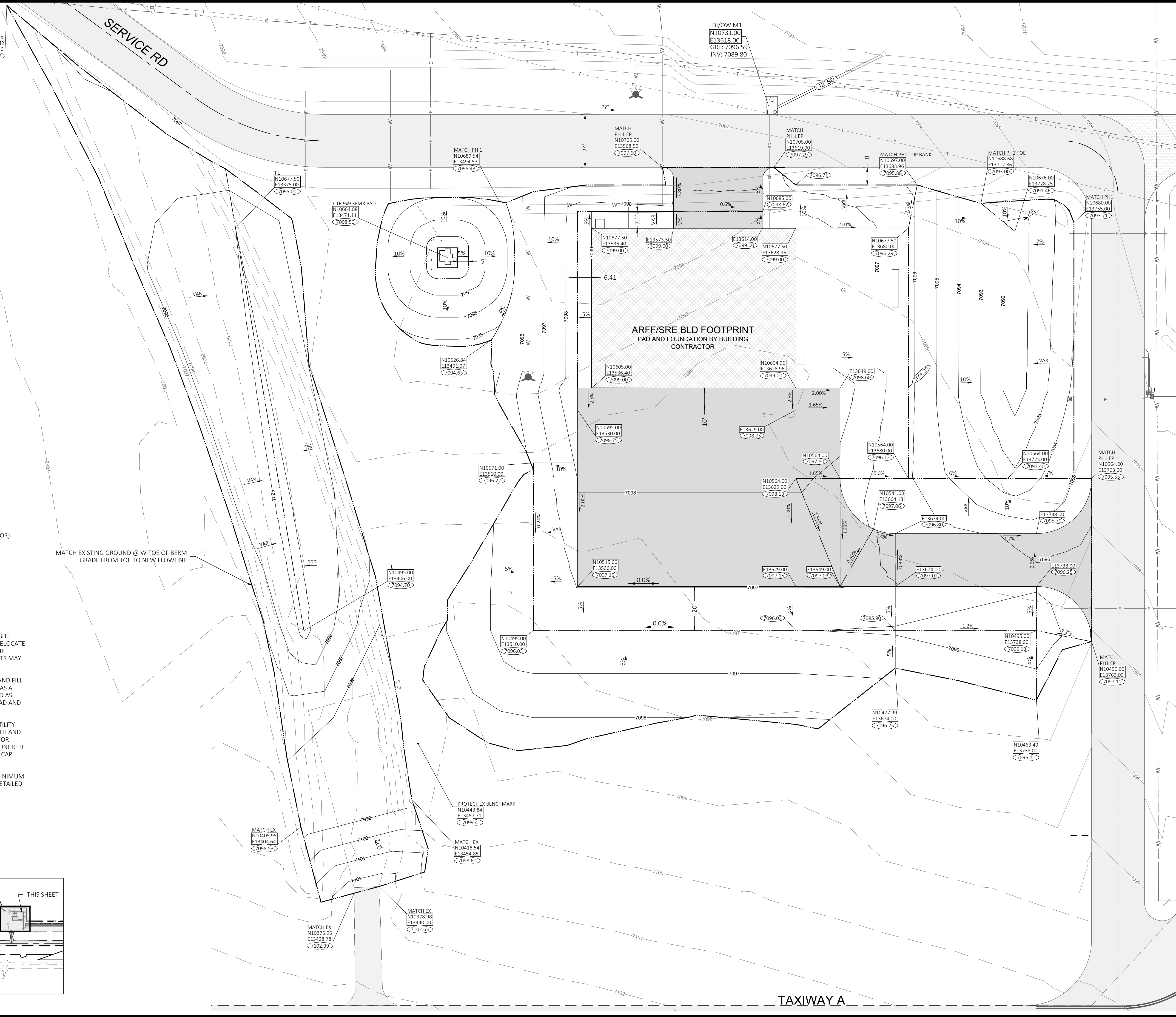


- LEGEND**
- N9738.46 AIRPORT GRID COORDINATE
 - E13727.35 FINISHED GRADE ELEVATION
 - 7110.00 EXISTING GRADE ELEVATION
 - 7110.00 EXISTING PAVEMENT
 - PHASE 1 PAVEMENT
 - NEW PAVEMENT
 - 7096 EXISTING GRADE CONTOUR
 - 7096 PHASE 1 FG CONTOUR
 - 7096 FINISHED GRADE CONTOUR
 - MATCH EXISTING GRADE
 - GRADE BREAK
 - 12" SD STORM DRAIN
 - DROP INLET/ OIL WATER SEPARATOR
 - XX EXISTING BARBED WIRE FENCE
 - X EXISTING FENCE
 - E EX ELECTRICAL DUCT
 - NEW ELECTRICAL DUCT
 - T EX TELEPHONE/COMM DUCT
 - NEW FIBER DUCT
 - W EXISTING WATER MAIN
 - NEW WATER SERVICE (BLD CONTRACTOR)
 - G NEW GAS LINE (BLD CONTRACTOR)
 - SS NEW SEPTIC LINE (BLD CONTRACTOR)

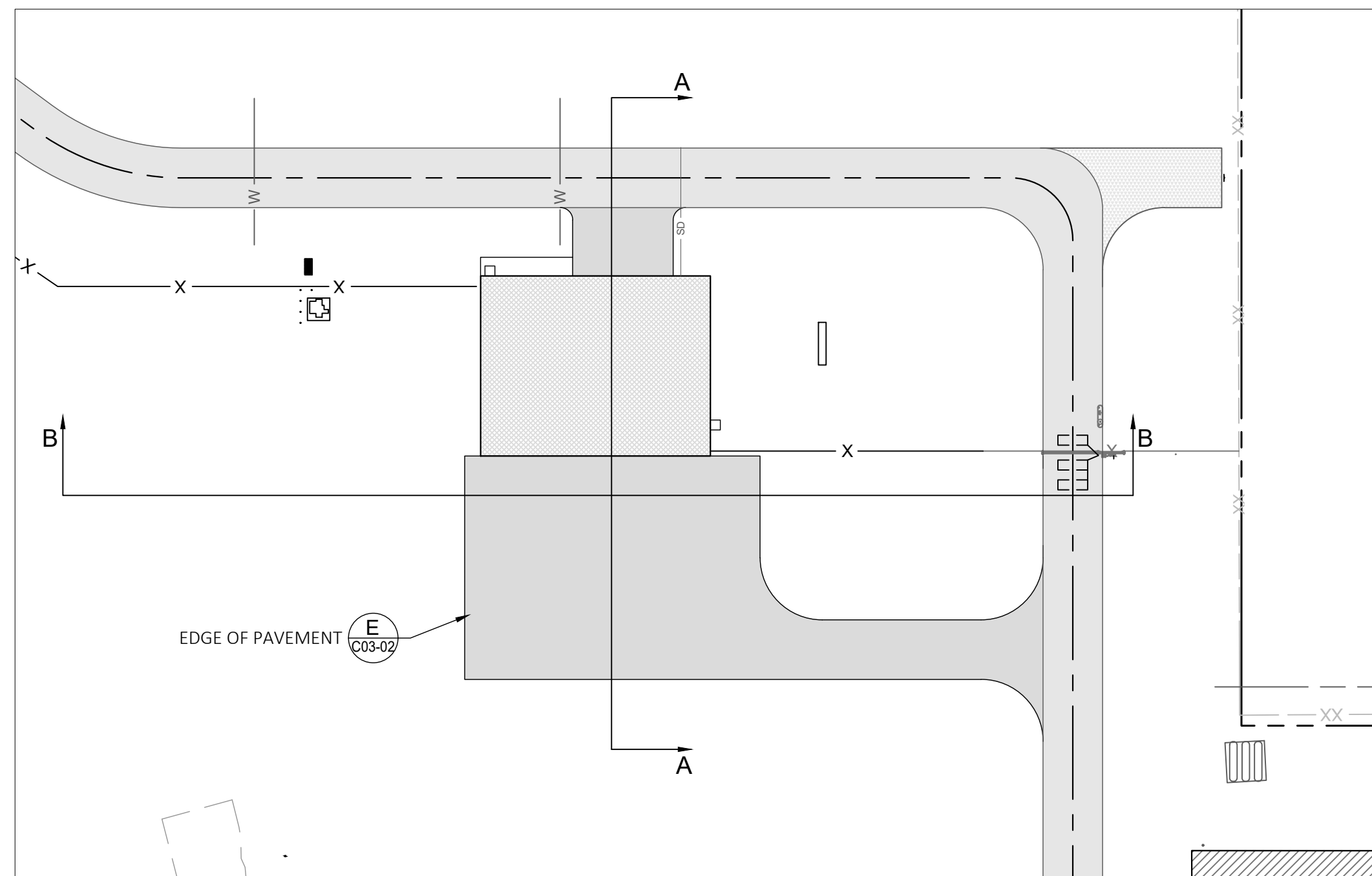
- NOTES:**
- THIS PROJECT FOLLOWS AFTER THE MULTIPURPOSE BUILDING SITE WORK PHASE 1 - RECONSTRUCT AND EXTEND SERVICE ROAD, RELOCATE TAXIWAY A3. THIS PROJECT MAY BE ISSUED FOR BID BEFORE THE COMPLETION OF PHASE 1. COMPLETED PHASE 1 IMPROVEMENTS MAY VARY FROM THE DEPICTION ON THESE PLANS.
 - THE INTENTION OF THIS PLAN IS TO CREATE A BALANCED CUT AND FILL CONDITION. A FORMER BUILT-UP ACCESS ROAD IS TO BE USED AS A BORROW AREA. EXACT EXTENTS OF BORROW MAY BE ADJUSTED AS NEEDED TO MEET REQUIRED FINISHED GRADES OF BUILDING PAD AND PAVED APRON.
 - BEFORE BEGINNING ANY EXCAVATION ALL WATERLINES AND UTILITY LINES SHALL BE POT HOLED AT 50 FT. CENTERS TO LOCATE DEPTH AND LOCATION OF LINES. NO SEPARATE PAYMENT SHALL BE MADE FOR POTHOLES. RESIDENT ENGINEER SHALL DETERMINE WHERE CONCRETE CAP OVER EXISTING UTILITY LINE IS NECESSARY. SEE CONCRETE CAP OVER EXISTING UTILITY DETAIL SHEET C03-02.
 - BUILDING SLAB TO BE 8" PCC, MIN 6" AGGREGATE BASE AND MINIMUM 6" AGGREGATE SUBBASE UNDER ALL PORTIONS OF SLAB. SEE DETAILED SLAB GRADES, SHEET A22-01.
 - SEE SHEET C02-01 FOR DEMOLITION PLAN.
 - SEE SHEET C03-02 FOR TYPICAL SECTIONS.
 - SEE SHEETS C01-02 TO C01-03 FOR TESTHOLE BORING PLANS.



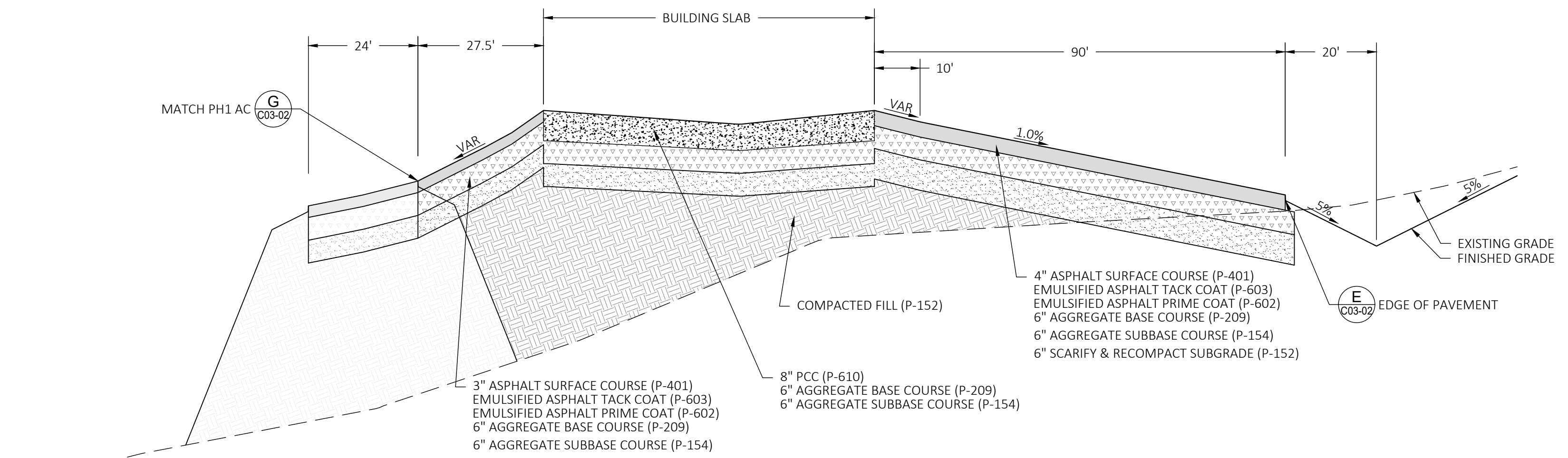
LOCATION MAP



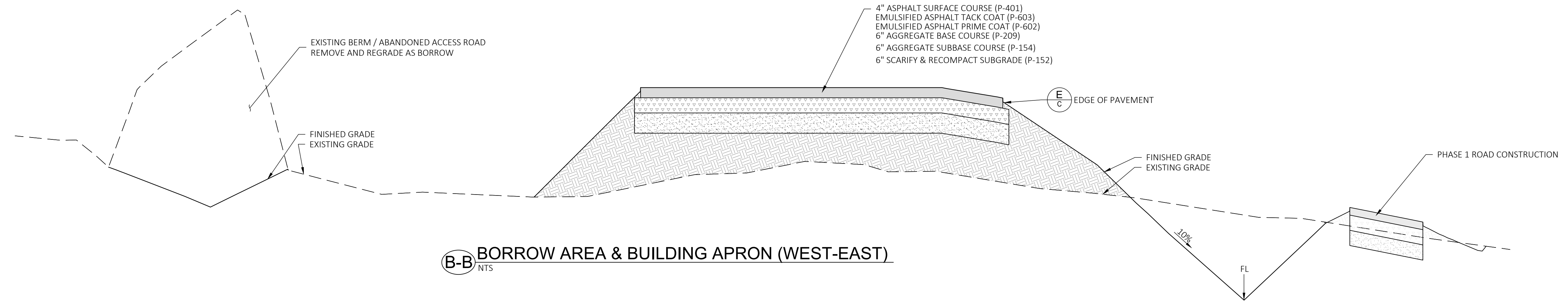
G:\75 MAMMOTH\21-22 ARFF BLD\25-2 SRE SITE\7522-2.C0301.GRAD.DWG PLOTTED BY Kevin Curry 5/28/2026 9:38 AM



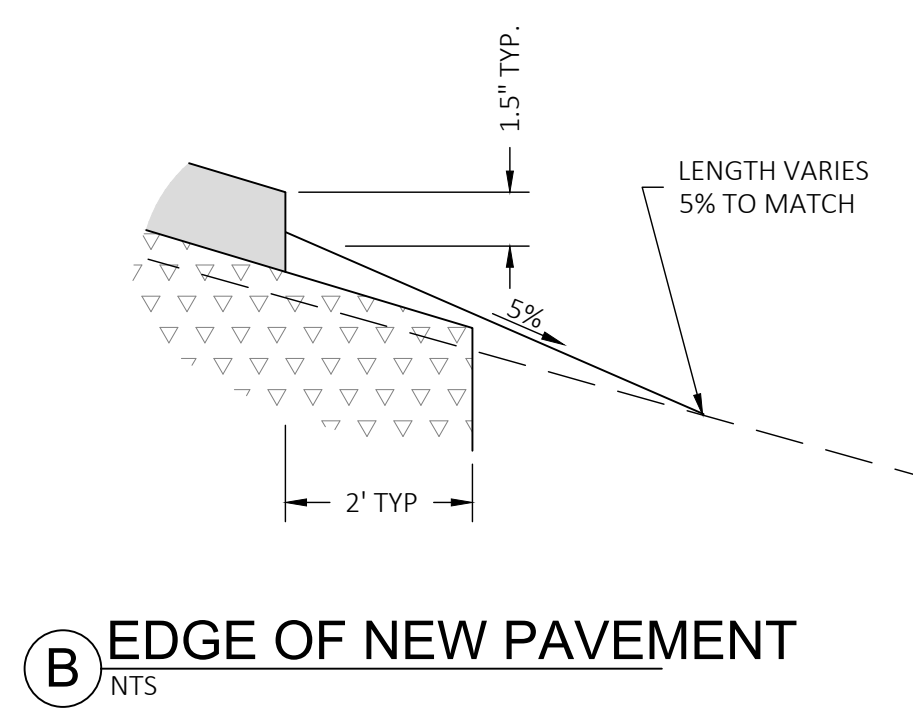
LOCATION MAP



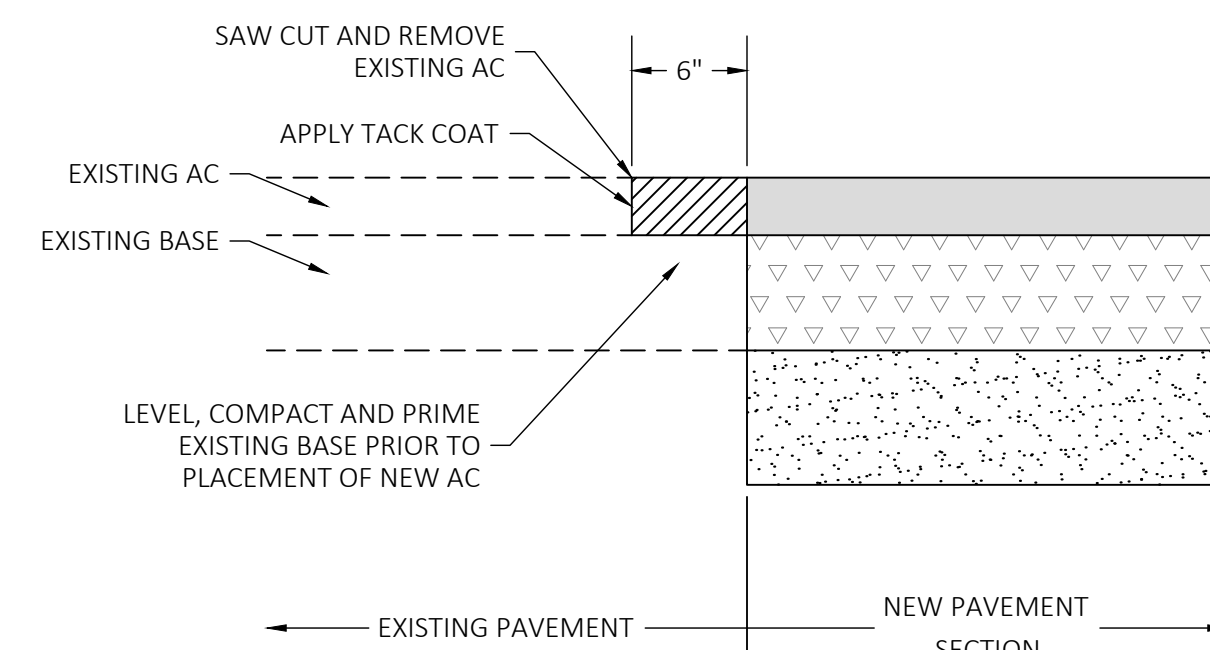
A-A BUILDING APRON & PARKING AREA
NTS



B-B BORROW AREA & BUILDING APRON (WEST-EAST)
NTS

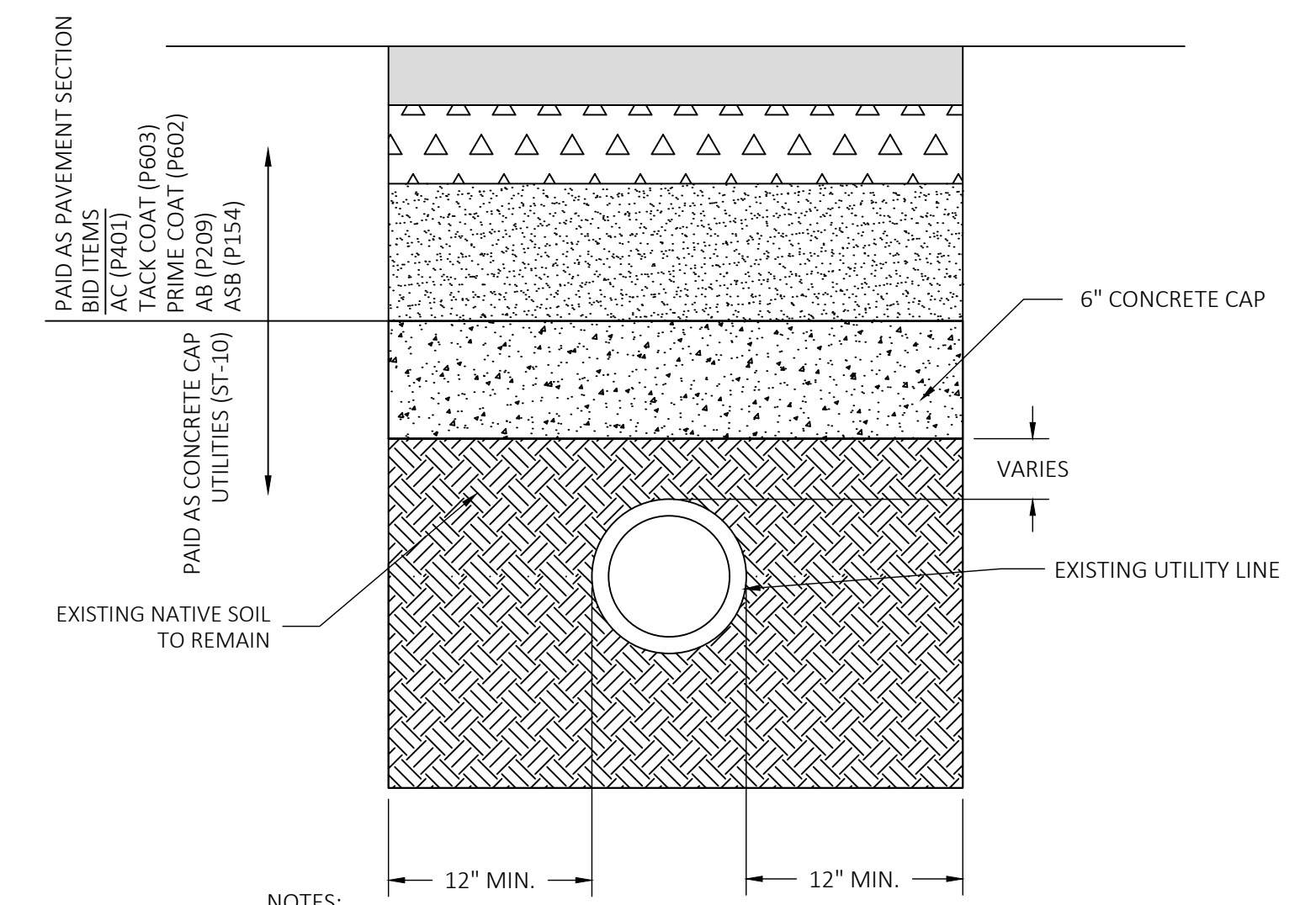


B EDGE OF NEW PAVEMENT
NTS



C MATCH EXISTING AC
NTS

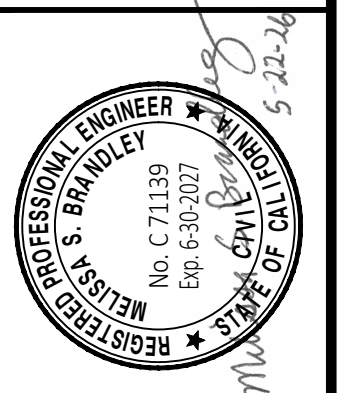
- NOTES:
- REMOVAL OF EXISTING AC SHALL NOT OCCUR UNTIL THE PLACEMENT OF NEW BASE COURSE HAS BEEN COMPLETED.
 - CONTRACTOR SHALL PROTECT SAW CUT FACE FROM DAMAGE. DAMAGED AREAS SHALL BE SAW CUT MAINTAINING A CONTINUOUS STRAIGHT EDGE AT THE CONTRACTOR'S EXPENSE.



- NOTES:
- BEFORE BEGINNING ANY EXCAVATION ALL WATERLINES AND UTILITY LINES SHALL BE POT HOLED AT 50 FT. CENTERS TO LOCATE DEPTH AND LOCATION OF LINES. NO SEPARATE PAYMENT SHALL BE MADE FOR POTHOLES. RESIDENT ENGINEER SHALL DETERMINE WHERE CONCRETE CAP OVER EXISTING UTILITY LINE IS NECESSARY.
 - 6\"/>

CONCRETE CAP OVER EXISTING UTILITY
NOT TO SCALE

G:\75 MAMMOTH\21-27 AFFX BLD\25-2 SRE SITE\7522-2.C0302.SECTN.DWG PLOTTED BY Kevin Curry 5/29/2026 9:38 AM



ENGINEER OF RECORD

BY: APR DATE

REVISIONS

No.

MAMMOTH YOSEMITE AIRPORT
CALIFORNIA

SNOW REMOVAL EQUIPMENT BUILDING

TYPICAL SECTIONS

DATE	3/26/2026
DRAWN	KDC
CHECKED	MSB
PROJECT No.	75.22
FILE	7522-2.C0302.SECTN
SCALE	AS SHOWN
SHEET No.	C03-02

<p>A. CONCRETE USED WITHIN TOWN RIGHT OF WAY SHALL MEET THE FOLLOWING REQUIREMENTS (UNLESS OTHERWISE SPECIFIED BY THE TOWN):</p> <ol style="list-style-type: none"> CONCRETE SHALL BE IN CONFORMANCE WITH THE MOST RECENT VERSION OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (SECTION 90). PORTLAND CEMENT CONCRETE SHALL BE CLASS 1 IN ACCORDANCE WITH SECTION 90, "CONCRETE" OF THE CSS AND MIN 7.1 SACK TYPE I OR 1P CEMENT PER CUBIC YARD. AGGREGATE USED FOR CONCRETE SHALL BE NON-REACTIVE OR TREATED IN AN APPROVED MANNER. EXPOSED CONCRETE SHALL CONTAIN 5% ± 1.0% ENTRAINED AIR. CONCRETE SHALL CONTAIN MIN 15% FLY ASH MAX 25%. CONCRETE SHALL BE SEALED WITH A TOWN APPROVED SEALER. FIBER MESH (POLYPROPYLENE) SHALL BE ADDED PER MANUFACTURER'S RECOMMENDATIONS TO ALL CONCRETE THAT HAS A WEARING SURFACE INCLUDING BUT NOT LIMITED TO CURB AND GUTTER, SIDEWALK, CROSSWALKS, EXPOSED UTILITY RIMS, VAULTS, VALLEY GUTTERS, AND AS SPECIFIED. WEARING SURFACE COMPRESSIVE STRENGTH SHALL BE 5000 psi IN 28 DAYS OR AS SPECIFIED ON PLANS. CONCRETE SHALL BE TESTED FOR SLUMP & AIR FOR COMPLIANCE BEFORE THE PLACEMENT OF THE FIRST TRUCK LOAD AND EVERY 50 YARDS THEREAFTER OR AS DIRECTED BY ENGINEER. THE CONTRACTOR SHALL DOCUMENT THE RESULTS AND SUBMIT THESE AND JOB FIELD REPORTS TO THE TOWN ON A WEEKLY BASIS. IN THE EVENT THERE IS A TEST FAILURE, CORRECTIVE ACTIONS SHALL BE TAKEN TO REMEDY THE SITUATION AND THE ACTIONS DOCUMENTED. THE TOWN SHALL BE NOTIFIED IMMEDIATELY. CONCRETE CYLINDERS SHALL BE TAKEN MID LOAD AND EVERY 50 YARDS THEREAFTER. COPIES OF THE BATCH TICKETS SHALL ACCOMPANY THE FIELD REPORTS AND TEST RESULTS. <p>B. CONCRETE BACKFILL SLURRY WITHIN TOWN RIGHT OF WAY SHALL MEET THE FOLLOWING REQUIREMENTS:</p> <ol style="list-style-type: none"> AGGREGATE USED SHALL HAVE A MINIMUM SAND EQUIVALENT (SE) OF 30.0 AT THE OPTION OF THE CONTRACTOR, AGGREGATE SHALL BE EITHER: <ul style="list-style-type: none"> A. SELECTED MATERIAL WHICH IS FREE OF ORGANIC MATERIAL AND OTHER DELETERIOUS SUBSTANCES AND CONFORMS TO THE FOLLOWING GRADING REQUIREMENTS: <table border="1"> <thead> <tr> <th>SIEVE SIZES</th> <th>PERCENTAGE BY WEIGHT PASSING SIEVE</th> </tr> </thead> <tbody> <tr> <td>1/2 INCH</td> <td>100</td> </tr> <tr> <td>1 INCH</td> <td>80 - 100</td> </tr> <tr> <td>3/4 INCH</td> <td>60 - 100</td> </tr> <tr> <td>3/8 INCH</td> <td>50 - 100</td> </tr> <tr> <td>NO. 4</td> <td>40 - 100</td> </tr> <tr> <td>NO. 10</td> <td>2 - 40</td> </tr> <tr> <td>NO. 200</td> <td>2 - 15</td> </tr> </tbody> </table> B. COMMERCIAL QUALITY CONCRETE SAND WHICH CONFORMS TO THE FOLLOWING GRADE REQUIREMENTS: <table border="1"> <thead> <tr> <th>SIEVE SIZES</th> <th>PERCENTAGE BY WEIGHT PASSING SIEVE</th> </tr> </thead> <tbody> <tr> <td>3/8 INCH</td> <td>100</td> </tr> <tr> <td>NO. 4</td> <td>95 - 100</td> </tr> <tr> <td>NO. 8</td> <td>80 - 100</td> </tr> <tr> <td>NO. 16</td> <td>50 - 85</td> </tr> <tr> <td>NO. 30</td> <td>25 - 60</td> </tr> <tr> <td>NO. 50</td> <td>10 - 30</td> </tr> <tr> <td>NO. 200</td> <td>2 - 15</td> </tr> </tbody> </table> 		SIEVE SIZES	PERCENTAGE BY WEIGHT PASSING SIEVE	1/2 INCH	100	1 INCH	80 - 100	3/4 INCH	60 - 100	3/8 INCH	50 - 100	NO. 4	40 - 100	NO. 10	2 - 40	NO. 200	2 - 15	SIEVE SIZES	PERCENTAGE BY WEIGHT PASSING SIEVE	3/8 INCH	100	NO. 4	95 - 100	NO. 8	80 - 100	NO. 16	50 - 85	NO. 30	25 - 60	NO. 50	10 - 30	NO. 200	2 - 15	<p>TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS</p> <p>CONCRETE AND SLURRY STANDARDS</p> <p>STANDARD PLAN 004-2</p> <p>PUBLIC WORKS DIRECTOR APPROVAL: _____ DATE: <u>May 7, 2014</u> SHEET 1 OF 2</p>
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<p>A. GENERAL CONSTRUCTION REQUIREMENTS WITHIN TOWN RIGHT OF WAY</p> <ol style="list-style-type: none"> UNLESS OTHERWISE SPECIFIED, ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THESE STANDARDS, THE LATEST VERSION OF THE CALTRANS STANDARD SPECIFICATIONS (CSS), AND THE LATEST VERSION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC). WORK SHALL BE DONE IN CONFORMANCE WITH THE MOST RECENT VERSION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE TOWN'S REPRESENTATIVE AND ALL OTHER INTERESTED PARTIES SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE START OF WORK. AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING CONSTRUCTION, UNDERGROUND SERVICE ALERT (USA) SHALL BE NOTIFIED AT THE REGIONAL NOTIFICATION CENTER, WITH A REQUEST THAT UTILITY OWNERS MARK OR OTHERWISE INDICATE THE LOCATION OF THEIR FACILITIES. ALL APPROPRIATE UTILITY COMPANIES SHALL ALSO BE CONTACTED. UTILITIES SHALL BE POT HOLED AT CROSSINGS AND TIE-INS PRIOR TO EXCAVATION WORK. ALL MEASURES SHALL BE TAKEN TO PROTECT UTILITIES AND STRUCTURES FOUND AT THE SITE. THE TOWN IS NOT PART OF U.S.A. DIG. CONTRACTOR SHALL CALL TOWN OF MAMMOTH LAKES PUBLIC WORKS DEPARTMENT AT 760-934-8989 FOR LOCATION OF TOWN FACILITIES. PRIOR TO BEGINNING CONSTRUCTION ALL REQUIRED PERMITS MUST BE OBTAINED. PRE CONSTRUCTION MEETINGS ARE REQUIRED BEFORE ANY WORK IS TO BEGIN, EXCEPT FOR THE IMPLEMENTATION OF THE EROSION CONTROL PLAN. WORK IN TOWN OF MAMMOTH LAKES RIGHT OF WAY SHALL COMPLY WITH THE TERMS, CONDITIONS, AND REQUIREMENTS OF THE TOWN ENCROACHMENT PERMIT. THE CONTRACTOR SHALL TAKE ALL SUCH MEASURES NECESSARY TO CONTROL DUST NUISANCE BY CLEANING, SWEEPING, AND SPRINKLING WITH WATER AND USING DUST FENCES OR OTHER METHODS AS DIRECTED BY THE TOWN'S REPRESENTATIVE THROUGHOUT THE CONSTRUCTION OPERATION. ALL EXPOSED SOIL SURFACES SHALL BE MOISTENED AS REQUIRED TO AVOID NUISANCE CONDITIONS AND INCONVENIENCES FOR LOCAL RESIDENTS AND TRAVELERS OF NEARBY ROADWAYS. SUFFICIENT WATER TRUCKS SHALL BE MADE AVAILABLE FOR DUST CONTROL PURPOSES. ANY EVIDENCE OF THE HISTORICAL PRESENCE OF MAN FOUND DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE MAMMOTH LAKES PUBLIC WORKS DEPARTMENT AND CONSTRUCTION SHALL STOP UNTIL FURTHER NOTICE. TREE REMOVAL SHALL BE PERFORMED BY A LICENSED TIMBER OPERATOR ONLY. TIMBER OPERATOR SHALL NOTIFY CALIFORNIA DEPARTMENT OF FORESTRY (714) 762-4140 PRIOR TO COMMENCING WORK. ALL TREE REMOVAL SHALL CONFORM TO THE APPROVED TIMBER HARVEST PLAN IF REQUIRED, AND CALIFORNIA DEPARTMENT OF FORESTRY STUMP SHALL BE TREATED WITH SODIUM BORATE WITHIN 8 HOURS OF BEING CUT TO PREVENT ROOT FUNGUS. CONTRACTOR SHALL PROMPTLY CLEAN UP AREAS ADJACENT TO WORK OF ALL DEBRIS. <p>B. CONTROL OF WORK:</p> <ol style="list-style-type: none"> CONSTRUCTION SHALL BE LIMITED TO 7:00 AM TO 8:00 PM MONDAY THROUGH SATURDAY. OPERATIONS ON SUNDAYS, STATE AND FEDERAL HOLIDAYS, AND TOWN SPECIAL EVENTS ARE PERMITTED ONLY ON APPROVAL OF THE PUBLIC WORKS DIRECTOR AND LIMITED TO 8:00 AM TO 6:00 PM. A WRITTEN PERMIT IS REQUIRED FOR SUNDAY OR OFF HOURS WORK. PERMIT MUST BE LOCATED ON SITE AT ALL TIMES. THE LIMITS OF CONSTRUCTION SHALL BE CAREFULLY AND FULLY FLAGGED PRIOR TO START OF CONSTRUCTION, AND POSTED SO AS TO PREVENT DAMAGE TO VEGETATION AND DISTURBANCE TO SOLS OUTSIDE OF THE AREA OF CONSTRUCTION. 		<p>TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS</p> <p>GENERAL CONSTRUCTION REQUIREMENTS WITHIN TOWN RIGHT OF WAY</p> <p>STANDARD PLAN 007-2</p> <p>PUBLIC WORKS DIRECTOR APPROVAL: _____ DATE: <u>May 7, 2014</u> SHEET 1 OF 3</p>
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<ol style="list-style-type: none"> MIXING: <ul style="list-style-type: none"> THE AGGREGATE, CEMENT AND WATER SHALL BE PROPORTIONED BY WEIGHT. 188 POUNDS OF CEMENT (2 SACKS) SHALL BE USED FOR EACH CUBIC YARD OF MATERIAL PRODUCED. THE WATER CONTENT SHALL BE SUFFICIENT TO PRODUCE A FLUID, WORKABLE MIX THAT WILL FLOW AND CAN BE PUMPED WITHOUT SEGREGATION OF THE AGGREGATE WHILE BEING PLACED. STRUCTURAL CONCRETE SHALL NOT BE USED. MATERIALS FOR TRENCH SLURRY BACKFILL SHALL BE THOROUGHLY MACHINE MIXED IN A PUG MILL, ROTARY DRUM, OR OTHER APPROVED MIXER. MIXING SHALL CONTINUE UNTIL THE CEMENT AND WATER ARE THOROUGHLY DISPersed THROUGHOUT THE MATERIAL. TRENCH SLURRY BACKFILL SHALL BE PLACED WITHIN ONE HOUR AFTER MIXING OR IT SHALL BE REJECTED. COMPRESSIVE STRENGTH: <ul style="list-style-type: none"> 100 PSI IN 28 DAYS. NO LABORATORY TESTS ARE REQUIRED IF THE CONTRACTOR USES CONCRETE SAND AS AGGREGATE. CONTRACTOR WILL BE REQUIRED TO SUBMIT MIX DESIGN PRIOR TO PLACEMENT. THE INSPECTOR WILL USE THE BATCH TICKET AS PROOF OF THE SACK MIX. IF REQUIRED, OCCASIONAL COMPRESSIVE STRENGTH TESTS AND AGGREGATE GRADATIONS MAY BE PERFORMED. STRUCTURAL CONCRETE SHALL NOT BE USED AS SLURRY BACKFILL. PLACING <ul style="list-style-type: none"> SLURRY SHALL BE PLACED AND VIBRATED BY MECHANICAL MEANS. 		<p>TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS</p> <p>CONCRETE AND SLURRY STANDARDS</p> <p>STANDARD PLAN 004-2</p> <p>PUBLIC WORKS DIRECTOR APPROVAL: _____ DATE: <u>May 7, 2014</u> SHEET 2 OF 2</p>
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<ol style="list-style-type: none"> THE CONTRACTOR SHALL SO CONDUCT HIS OPERATIONS AS TO OFFER THE LEAST POSSIBLE OBSTRUCTION AND INCONVENIENCE TO THE PUBLIC, AND HE SHALL HAVE UNDER CONSTRUCTION NO GREATER LENGTH OR AMOUNT OF WORK THAN HE CAN PROSECUTE PROPERLY WITH DUE REGARD TO THE RIGHTS OF THE PUBLIC. CONVENIENT ACCESS TO DRIVEWAYS, HOUSES, AND BUILDINGS ALONG THE LINE OF WORK SHALL BE MAINTAINED AND TEMPORARY CROSSINGS SHALL BE PROVIDED AND MAINTAINED IN GOOD CONDITION. NO MORE THAN ONE CROSSING OR INTERSECTION STREET OR ROAD SHALL BE CLOSED AT ANY ONE TIME. ACCESS TO BUSINESSES AND RESIDENCES SHALL BE MAINTAINED AT ALL TIMES. <p>C. SAFETY:</p> <ol style="list-style-type: none"> IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK, AND THE CONTRACTOR SHALL FULLY COMPLY WITH ALL STATE, FEDERAL, AND OTHER LAWS, RULES, REGULATIONS, AND ORDERS RELATING TO SAFETY OF WORKERS AND ALL OTHERS. THIS MAY INCLUDE THE ISSUANCE OF PERSONAL PROTECTIVE EQUIPMENT. CONTRACTOR SHALL CONDUCT ALL GRADING OPERATIONS IN ACCORDANCE WITH THE TOWN OF MAMMOTH LAKES ORDINANCES AND STANDARDS AND IN CONFORMANCE OF INDUSTRIAL RELATIONS, DIVISION OF MAMMOTH LAKES SAFETY. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF GENERAL OSHA STANDARDS FOR THE PROTECTION OF WORKMEN AND THE GENERAL PUBLIC. OSHA PERMITS ARE REQUIRED FOR TRENCHES OVER 5 FEET DEEP. A WORKER PROTECTION PLAN SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE TOWN FOR APPROVAL FOR ALL EXCAVATIONS GREATER THAN 4 FEET. ALL OPERATIONS INVOLVING THE STORAGE AND HANDLING OF EXPLOSIVES SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF DIVISION II, PART I OF THE CALIFORNIA HEALTH AND SAFETY CODE AND ALL OTHER APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL CODES AND REGULATIONS. DRILLING AND BLASTING SHALL ONLY BE DONE UNDER THE DIRECTION OF LICENSED PERSONNEL. ALL PRECAUTIONS NECESSARY FOR THE PROTECTION OF LIFE AND PROPERTY SHALL BE TAKEN DURING BLASTING OPERATIONS AND ADEQUATE WARNING SHALL BE GIVEN TO WORKERS, INSPECTORS, AND PROPERTY OWNERS THAT BLASTING IS IN PROGRESS. THE TOWN SHALL BE NOTIFIED PRIOR TO ANY BLASTING. <p>D. EXECUTION:</p> <ol style="list-style-type: none"> ALL CUT AND FILL SLOPES SHALL BE REVEGETATED AND/OR LANDSCAPED TO PREVENT EROSION. CUT AND FILL SLOPES SHALL NOT EXCEED A STEEPNESS OF 3:1 (3 FEET HORIZONTAL TO 1 FOOT VERTICAL) UNLESS OTHERWISE NOTED, AND SHALL BE REVEGETATED TO CONTROL EROSION. STOCKPILED TOPSOIL WILL BE SPREAD EVENLY TO A DEPTH OF 4 INCHES MINIMUM OVER SLOPES AND DISTURBED AREAS, THEN LANDSCAPED OR SEEDED TO PREVENT EROSION WITH THE SEED MIXTURE INDICATED IN SECTION 20, "LANDSCAPE" OF THE CSS OR AS SUPPLIED BY THE TOWN. SEEDED SLOPES SHALL BE STABILIZED BY INSTALLATION OF AN EROSION CONTROL BLANKET, "NORTH AMERICAN GREEN SC150", GEOTEXTILES, JUTE MATTING OR APPROVED EQUAL, SECURED PER MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID INJURY TO EXISTING IMPROVEMENTS OR FACILITIES, UTILITY FACILITIES, ADJACENT PROPERTY, TREES AND SHRUBBERY THAT ARE NOT TO BE REMOVED. ALL DAMAGE CAUSED TO PUBLIC STREET, INCLUDING HAUL ROUTES, ALLEYS, SIDEWALKS, CURBS, OR STREET FURNISHINGS OR TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE TOWN'S REPRESENTATIVE. ALL IMPROVEMENTS REMOVED AS A COURSE OF WORK SHALL BE REPLACED AS APPROVED BY THE OWNER AND TOWN REPRESENTATIVE. <p>E. MATERIALS:</p> <ol style="list-style-type: none"> SIGNS SHALL BE DESIGNED, SUPPLIED AND INSTALLED IN CONFORMANCE WITH THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN MANUAL, STANDARDS AND SPECIFICATIONS. SIGN POSTS SHALL BE DESIGNED, SUPPLIED AND INSTALLED IN CONFORMANCE WITH THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN MANUAL, STANDARDS, AND SPECIFICATIONS. INSTALLATION OF TRAFFIC STRIPES AND PAVEMENT MARKINGS WILL BE IN CONFORMANCE WITH THE PROVISIONS OF SECTION 84, "TRAFFIC STRIPES AND PAVEMENT MARKINGS", OF THE CSS. DESIGN OF TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN MANUAL. 		<p>TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS</p> <p>GENERAL CONSTRUCTION REQUIREMENTS WITHIN TOWN RIGHT OF WAY</p> <p>STANDARD PLAN 007-2</p> <p>PUBLIC WORKS DIRECTOR APPROVAL: _____ DATE: <u>May 7, 2014</u> SHEET 2 OF 3</p>
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<p>A. SPECIFICATIONS FOR BACKFILL AND DENSIFICATION</p> <p>WHERE SPECIFIC RECOMMENDATIONS HAVE NOT BEEN PREPARED BY A GEOTECHNICAL INVESTIGATION THE FOLLOWING SHALL APPLY:</p> <p>BACKFILL SHALL BE CONSIDERED AS STARTING ONE FOOT ABOVE THE PIPE OR CONDUIT, OR AT THE TOP OF CONCRETE BEDDING OVER THE PIPE OR CONDUIT. ALL MATERIAL BELOW THIS POINT SHALL BE CONSIDERED BEDDING. ROCKS GREATER THAN 3 INCHES IN ANY DIMENSION WILL NOT BE PERMITTED IN THE BACKFILL PLACED ABOVE ANY PIPE OR BOX WHEREVER THE TRENCH WIDTH IS 4 FEET OR NARROWER. WHEREVER TRENCH WIDTHS ARE GREATER THAN 4 FEET, ROCKS LARGER THAN 3 INCHES BUT LESS THAN 12 INCHES IN ANY DIMENSION WILL BE PERMITTED AS BACKFILL NO CLOSER THAN 2 FEET FROM THE TOP OF PIPE OR BOX AND 2 FEET BELOW FINISHED PAVEMENT SUB GRADE OR WITHIN 2 FEET OF RISERS, VALVES, MANHOLES, OR OTHER STRUCTURES, PROVIDING THE FOLLOWING CONDITIONS ARE MET:</p> <ol style="list-style-type: none"> BACKFILL MATERIALS SHALL BE SCREENED OR "GRIZZLED" PRIOR TO BEING USED AS BACKFILL. ROCKS SHALL BE MIXED WITH SUFFICIENT VOLUME OF SUITABLE SOIL SO AS TO ELIMINATE THE NESTING OF ROCK AND VOIDS. TRENCHES SHALL BE AT LEAST 4 FEET WIDE IF A COMPACTOR ON THE END OF A TRACK EXCAVATOR BOOM IS UTILIZED, OR AT LEAST 8 FEET WIDE IF A FULL SIZED ROLLER IS USED. A FULL SIZED ROLLER SHALL CONSIST OF A SHEEPSFOOT OR DRUM ROLLER HAVING METAL DRUMS OR SHELLS NOT LESS THAN 4 FEET IN DIAMETER. HAND TAMPING COMPACTORS OR ROLLERS WILL BE USED TO OBTAIN COMPACTION WITHIN 2 FEET OF RISERS, VALVES, MANHOLES, OR OTHER STRUCTURES, AND WILL ASSIST IN OBTAINING COMPACTION ALONG EDGES OF TRENCHES. HOWEVER, THEY WILL NOT BE PERMITTED TO BE USED IN LIEU OF THE EQUIPMENT SPECIFIED IF ROCK LARGER THAN 3 INCHES IN ANY DIMENSION IS USED AS BACKFILL. THE CONTRACTOR SHALL DEMONSTRATE TO THE ENGINEER AND THE TESTING AGENCY THAT ADEQUATE COMPACTION CAN BE OBTAINED WITH THE MATERIALS, EQUIPMENT, AND PROCEDURES TO BE USED. THE LOOSE THICKNESS OF EACH LAYER OF EMBANKMENT MATERIAL BEFORE COMPACTION SHALL NOT EXCEED 8 INCHES FOR HAND TAMPERERS AND 12 INCHES FOR ROLLER COMPACTORS. IF, IN THE OPINION OF THE ENGINEER AND/OR TESTING AGENCY, THE BACKFILL SOILS CANNOT BE SATISFACTORILY TESTED TO DETERMINE IF COMPACTION CRITERIA IS MET, THE TESTING AGENCY OR ENGINEER, MAY AT THEIR OPTION REQUEST THE CONTRACTOR TO MODIFY HIS MATERIALS AND PROCEDURES SO THE TESTING CAN BE PERFORMED OR MAY USE A METHOD SPECIFICATION BASED ON THE EQUIPMENT AND MATERIALS BEING USED TO VERIFY THAT THE ADEQUATE COMPACTION IS OBTAINED. CONSTRUCTION SHALL NOT BE PERFORMED WHEN MATERIAL IS FROZEN OR A BLANKET OF SNOW PREVENTS PROPER COMPACTION. <p>ALL BACKFILL MATERIALS SHALL BE COMPACTED IN 8" MAXIMUM LIFTS TO 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557-CURRENT EDITION. IN PLACE DENSITY SHALL BE TESTED AND CONFIRMED USING ASTM TEST METHOD D 6938.</p> <p>B. MASS GRADING BACKFILL AND DENSIFICATION</p> <ol style="list-style-type: none"> ROCKS LARGER THAN 12 INCHES IN ANY DIMENSION SHALL NOT BE PERMITTED WITHOUT AUTHORIZATION OF THE ENGINEER AND ONLY AFTER A SATISFACTORY METHOD OF OBTAINING ADEQUATE COMPACTION HAS BEEN DEVELOPED AND AGREED TO. WHERE ROCKS ARE USED IN THE BACKFILL, THEY SHALL BE MIXED WITH SUITABLE EXCAVATED MATERIALS SO AS TO ELIMINATE VOIDS. AFTER PLACING OF BACKFILL HAS STARTED, THE CONTRACTOR SHALL PROCEED AS SOON AS PRACTICABLE WITH DENSIFICATION. ALL BACKFILL MATERIALS SHALL BE COMPACTED IN 8" MAXIMUM LIFTS TO 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557-CURRENT EDITION. IN PLACE DENSITY SHALL BE TESTED AND CONFIRMED USING ASTM TEST METHOD D 6938. BACKFILL IN NON-STRUCTURAL AREAS SHALL BE DENSIFIED TO AT LEAST 95% OF THE MATERIALS MAXIMUM DRY DENSITY. 		<p>TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS</p> <p>BACKFILL STANDARDS</p> <p>STANDARD PLAN 005-2</p> <p>PUBLIC WORKS DIRECTOR APPROVAL: _____ DATE: <u>May 7, 2014</u> SHEET 1 OF 2</p>
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<p>F. INSPECTION:</p> <ol style="list-style-type: none"> CONTRACTOR SHALL NOTIFY THE TOWN OF MAMMOTH LAKES PUBLIC WORKS INSPECTOR AT (760) 934-2534, 48 HOURS IN ADVANCE FOR THE INSPECTION OF THE FOLLOWING: <ul style="list-style-type: none"> TRAFFIC CONTROL SHORING CONCRETE FORMS CONCRETE PLACEMENT REBAR PLACEMENT SUBGRADE FINAL GRADE - BASE COURSE LIGHT POLE ROOTINGS AND ANCHOR BOLTS PRIOR TO CONCRETE POUR HEATING TUBING IN SIDEWALKS PRIOR TO CONCRETE POUR OR INSTALLATION OF PAVERS UTILITY INSTALLATIONS PRIOR TO BACKFILL ADDITIONAL ITEMS AS DETERMINED BY TOWN SOLS TESTING SHALL BE PERFORMED BY A STATE APPROVED INDEPENDENT TESTING LABORATORY. SHOULD ANY COMPACTION TEST FAIL TO MEET THE MINIMUM REQUIRED DENSITY AS SPECIFIED ON THE PLANS OR IN THE GEOTECHNICAL REPORT, THE DEFICIENCY SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE SOILS ENGINEER. THE EXPENSE OF RETESTING SUCH AN AREA SHALL BE BORN BY THE CONTRACTOR, AT NO COST TO THE OWNER. <p>G. ENGINEERING CERTIFICATION:</p> <ol style="list-style-type: none"> ALL IMPROVEMENT PLANS AND THE SPECIFIC DETAILS AND SPECIFICATIONS THEREOF SHALL BE PREPARED BY, OR UNDER THE DIRECTION OF, AND SIGNED BY, A CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA AND SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF THE TOWN OF MAMMOTH LAKES PUBLIC WORKS DIRECTOR PRIOR TO CONSTRUCTION OF THE IMPROVEMENTS. IT IS RECOGNIZED THAT THERE MAY BE SITUATIONS WHERE THESE STANDARDS CANNOT BE REASONABLY APPLIED OR SITUATIONS NOT ADDRESSED HEREIN. IN EITHER CASE, IT SHALL BE THE SOLE RESPONSIBILITY OF THE PUBLIC WORKS DIRECTOR TO EXERCISE SOUND ENGINEERING JUDGMENT IN APPROVING ALTERNATE PROPOSALS IN THESE SITUATIONS. <p>H. SHOP DRAWINGS AND SUBMITTALS</p> <ol style="list-style-type: none"> SHOP DRAWING SUBMITTALS SHALL BE PROVIDED TO THE PUBLIC WORKS INSPECTOR AT LEAST 5 DAYS PRIOR TO MATERIAL USE FOR THE FOLLOWING: <ul style="list-style-type: none"> CLASS II BASE CONCRETE ASPHALT PAVING (LAF) HMA DESIGN STREET LIGHTS, (SUGGESTED BEFORE ORDERING LIGHTS) ELECTRICAL DRAINAGE COMPONENTS SIGNAGE 		<p>TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS</p> <p>GENERAL CONSTRUCTION REQUIREMENTS WITHIN TOWN RIGHT OF WAY</p> <p>STANDARD PLAN 007-2</p> <p>PUBLIC WORKS DIRECTOR APPROVAL: _____ DATE: <u>May 7, 2014</u> SHEET 3 OF 3</p>
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<p>C. SPECIFICATIONS FOR TRENCH SLURRY BACKFILL:</p> <ol style="list-style-type: none"> TRENCH SLURRY BACKFILL SHALL CONSIST OF A FLUID, WORKABLE MIXTURE OF AGGREGATE, 2-SACK CEMENT AND WATER. AT THE OPTION OF THE CONTRACTOR, TRENCH SLURRY BACKFILL MAY BE USED AS A STRUCTURAL BACKFILL FOR PIPE, EXCEPT THAT TRENCH SLURRY BACKFILL SHALL NOT BE USED AS STRUCTURAL BACKFILL FOR ALUMINUM OR ALUMINUM COATED PIPE. WHEN TRENCH SLURRY BACKFILL IS USED FOR STRUCTURAL BACKFILL, THE WIDTH OF THE EXCAVATION SHOWN ON THE PLANS MAY BE REDUCED SO THAT THE SIDE CLEAR DISTANCE BETWEEN THE OUTSIDE OF THE PIPE AND THE SIDE OF THE EXCAVATION, ON EACH SIDE OF THE PIPE, IS A MINIMUM OF 6 INCHES FOR PIPES UP TO AND INCLUDING 42 INCHES IN DIAMETER OR SPAN, ONE FOOT FOR PIPES OVER 42 INCHES IN DIAMETER OR SPAN. TRENCH SLURRY BACKFILL SHALL BE PLACED ONLY FOR THE PORTION OF THE STRUCTURAL BACKFILL BELOW THE ORIGINAL GROUND, THE GRADING PLANE OR THE TOP OF EMBANKMENT PLACED PRIOR TO EXCAVATING FOR THE PIPE, WHERE NECESSARY. EARTH FLUXES SHALL BE COMPACTED AS REQUIRED AT EACH END OF THE PIPE PRIOR TO PLACING BACKFILL IN A MANNER THAT WILL COMPLETELY CONTAIN THE SLURRY IN THE TRENCH. TRENCH SLURRY BACKFILL SHALL BE PLACED IN A UNIFORM MANNER THAT WILL PREVENT VOIDS IN, OR SEGREGATION OF, THE BACKFILL, AND WILL NOT FLOAT OR SHIFT THE PIPE. FOREIGN MATERIAL WHICH FALLS INTO THE TRENCH PRIOR TO OR DURING PLACING OF THE TRENCH SLURRY BACKFILL SHALL BE IMMEDIATELY REMOVED. BACKFILLING OR PLACING ANY MATERIAL OVER TRENCH SLURRY BACKFILL SHALL NOT COMMENCE UNTIL AT LEAST FOUR HOURS AFTER THE TRENCH SLURRY BACKFILL HAS BEEN PLACED, EXCEPT THAT WHEN CONCRETE SAND IS USED FOR THE AGGREGATE AND THE IN-PLACE MATERIAL IS FREE DRAINING, BACKFILLING MAY COMMENCE AS SOON AS THE SURFACE WATER IS GONE. TRENCH SLURRY BACKFILL MAY BE USED AS A SUBSTITUTE FOR AGGREGATE BASE WHEN APPROVED IN ADVANCE BY THE PUBLIC WORKS DIRECTOR. 		<p>TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS</p> <p>BACKFILL STANDARDS</p> <p>STANDARD PLAN 005-2</p> <p>PUBLIC WORKS DIRECTOR APPROVAL: _____ DATE: <u>May 7, 2014</u> SHEET 2 OF 2</p>
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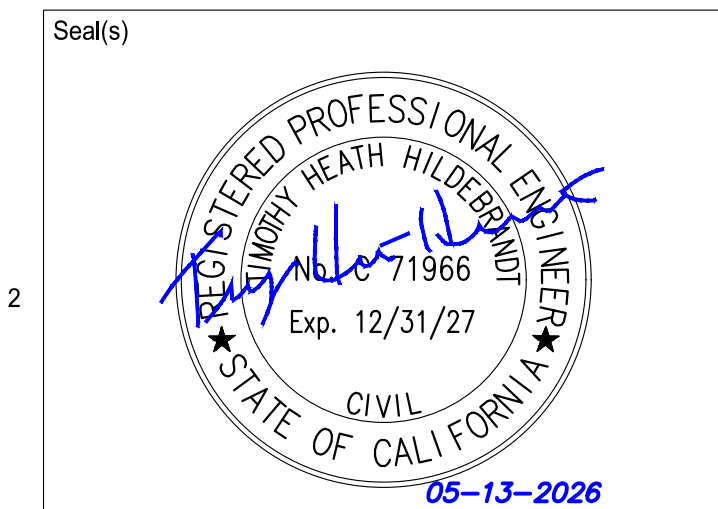
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Project Component

Key Plan

Consultants
 Survey: Brandley Engineering
 Civil: Kimley-Horn
 Architecture: NORR
 Structural: Beaver Structural Eng
 Mechanical: NORR
 Electrical: NORR
 Interiors: NORR
 Fire Sprinkler: Sacramento Engineering Consultants



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Kimley-Horn

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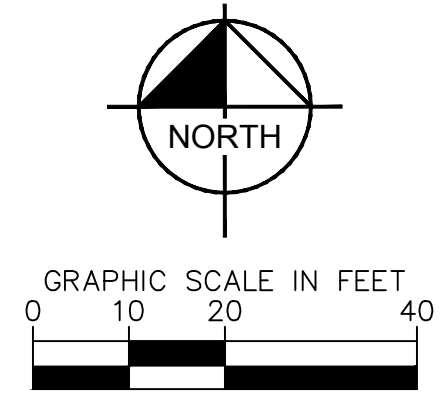
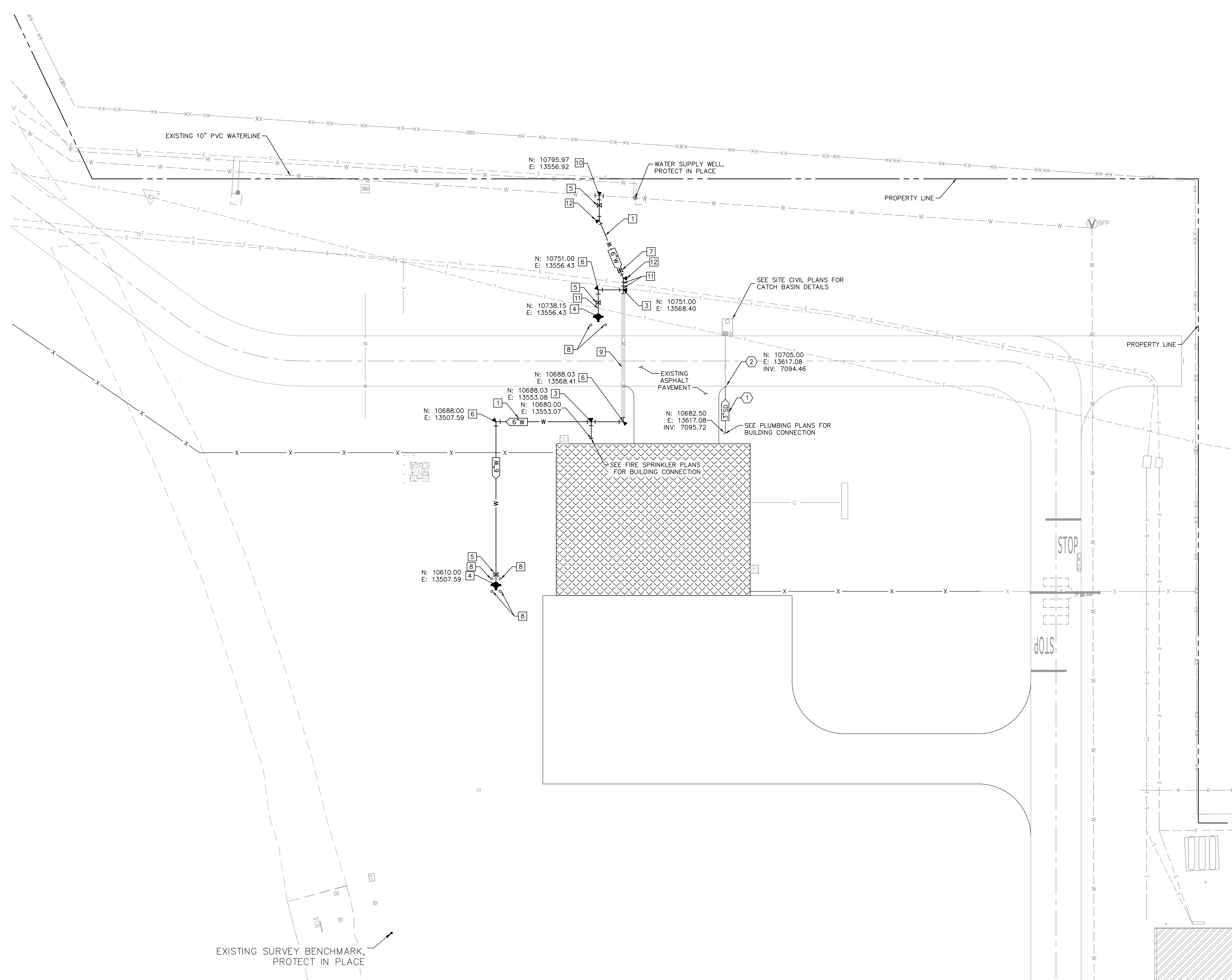
Project Manager: Drawn: AES
 Project Leader: Checked: JWF
 Client: MAMMOTH YOSEMITE AIRPORT

Project: MAMMOTH SRE BUILDING

MAMMOTH, CALIFORNIA
 Drawing Title: UTILITY NOTES, ABBREVIATIONS, & LEGEND

Scale
 Project No: IN2024-0022
 Drawing No: C05-02





LEGEND

- W — EXISTING WATER LINE
- W — PROPOSED WATER LINE
- SD — PROPOSED STORM DRAIN LINE
- ⬇ FIRE HYDRANT
- ⊕ WATER VALVE

WATER NOTES:

- 1 INSTALL 6" CLASS 235 PVC WATER LINE PER TOWN OF MAMMOTH LAKES DETAIL 202-1, SHEET C05-04
- 2 INSTALL 10"x10"x6" TEE WITH THRUST BLOCK PER DETAIL 4 & 5, SHEET C05-05
- 3 INSTALL 6"x6"x6" TEE WITH THRUST BLOCK PER DETAIL 4 & 5, SHEET C05-05
- 4 INSTALL FIRE HYDRANT PER DETAIL 6, SHEET C05-05
- 5 INSTALL 6" GATE VALVE PER DETAIL 4, SHEET C05-05
- 6 INSTALL 6" PVC 90° BEND WITH THRUST BLOCK PER DETAIL 5, SHEET C05-05
- 7 INSTALL 6" DETECTOR CHECK VALVE WITH BYPASS METER IN H-20 RATED TRAFFIC BOX
- 8 INSTALL BOLLARD PER DETAIL 2, SHEET C05-04
- 9 INSTALL WATERLINE THROUGH EXISTING 16" UTILITY SLEEVE WITH END SEALS AND SPACERS PER DETAIL 1, SHEET C05-04
- 10 INSTALL TAPPING SLEEVE PER DETAIL 7, SHEET C05-05
- 11 UTILITY CROSSING PROTECT EXISTING UTILITY IN PLACE, MAINTAIN MINIMUM 12" SEPARATION AT CROSSING
- 12 INSTALL 22.5' HORIZONTAL BEND WITH THRUST BLOCKS PER DETAIL 4 & 5, SHEET C05.05

STORM DRAIN NOTES:

- 1 INSTALL 3" SCH. 40 PVC STORM DRAIN PIPE PER TOWN OF MAMMOTH LAKES DETAIL 202-1, SHEET C05-04
- 2 REMOVE CAP AND TIE INTO EXISTING STORM DRAIN

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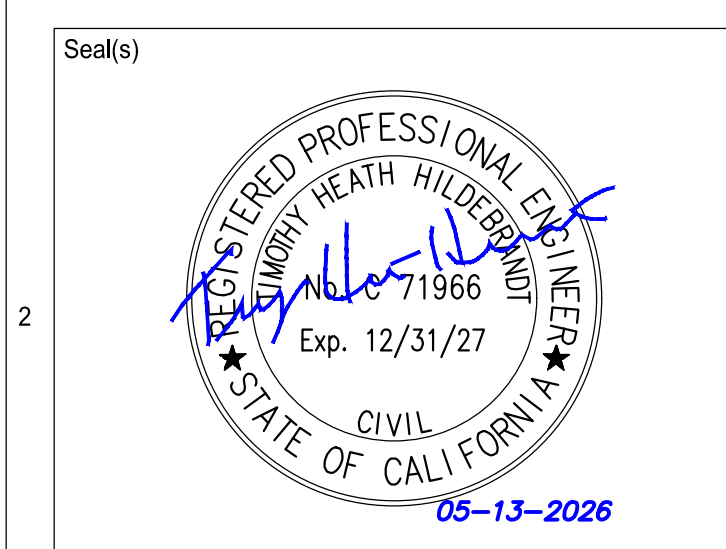
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Project Component

Key Plan

Consultants

Survey:	Brandley Engineering
Civil:	Kimley-Horn
Architecture:	NORR
Structural:	Bever Structural Eng
Mechanical:	NORR
Electrical:	NORR
Interiors:	NORR
Fire Sprinkler:	Sacramento Engineering Consultants



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Project Manager	Drawn
Project Leader	Checked
	JWF

Client
MAMMOTH YOSEMITE AIRPORT

Project
MAMMOTH SRE BUILDING

MAMMOTH, CALIFORNIA
Drawing Title
UTILITY PLAN

Scale	1"=20'
Project No.	IN2024-0022
Drawing No.	C05-03



MATERIALS

- AGGREGATE BASE SHALL BE CBE PER TOWN STANDARD, AND AS APPROVED BY THE PUBLIC WORKS DIRECTOR
- ASPHALT CONCRETE SHALL BE PER TOWN STANDARD, AND AS APPROVED BY THE PUBLIC WORKS DIRECTOR
- CORRUGATED METAL PIPE CULVERTS SHALL CONFORM TO THE PROVISIONS IN SECTION 86, "CORRUGATED METAL PIPE" OF THE CSS AND SHALL BE 12 GAUGE. CORRUGATED STEEL FLARED END SECTIONS SHALL CONFORM TO THE PROVISIONS IN SECTION 75, "MISCELLANEOUS METAL," AND SECTION 70, "MISCELLANEOUS DRAINAGE FACILITIES" OF THE CSS.
- PLASTIC PIPE CULVERTS SHALL CONFORM TO THE PROVISIONS IN SECTION 84, "PLASTIC PIPE" OF THE CSS.
- SLURRY CEMENT BACKFILL SHALL CONFORM TO TOWN STANDARDS 005-0 AND AS APPROVED BY THE PUBLIC WORKS DIRECTOR
- CONCRETE SHALL BE PER TOWN STANDARD 004-0, AND AS APPROVED BY THE PUBLIC WORKS DIRECTOR.
- INSTALLATION OF TRAFFIC STRIPES AND PAVEMENT MARKINGS WILL BE IN CONFORMANCE WITH THE PROVISIONS OF SECTION 64, "TRAFFIC STRIPES AND PAVEMENT MARKINGS," OF THE CSS.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

GENERAL REFERENCES UTILITIES STANDARD PLAN 200-2 SHEET 1 OF 1

DATE: May 7, 2014

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

TRENCH EXCAVATION / BACKFILL STANDARD PLAN 202-1 SHEET 1 OF 2

DATE: May 7, 2014

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

TRENCH EXCAVATION / BACKFILL STANDARD PLAN 202-1 SHEET 2 OF 2

DATE: May 7, 2014

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

UTILITY LOCATIONS STANDARD PLAN 203-1 SHEET 1 OF 2

DATE: May 7, 2014

PIPE SIZE	CASING OD	THICKNESS
6"	16"	1/4"
8"	18"	1/4"
10"	20"	5/16"
12"	24"	5/16"
16"	30"	3/8"
18"	30"	3/8"
20"	36"	1/2"
24"	42"	1/2"

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

END SEAL AND SPACERS DETAIL N.T.S.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

BOLLARD DETAIL N.T.S.

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Project Component: Key Plan

Consultants:
 Survey: Brandley Engineering
 Civil: Kimley-Horn
 Architecture: NORR
 Structural: Bevier Structural Eng
 Mechanical: NORR
 Electrical: NORR
 Interiors: NORR
 Fire Sprinkler: Sacramento Engineering Consultants

Seal(s):

 05-13-2026

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Project Manager: Drawn: AES
 Project Leader: Checked: JWF

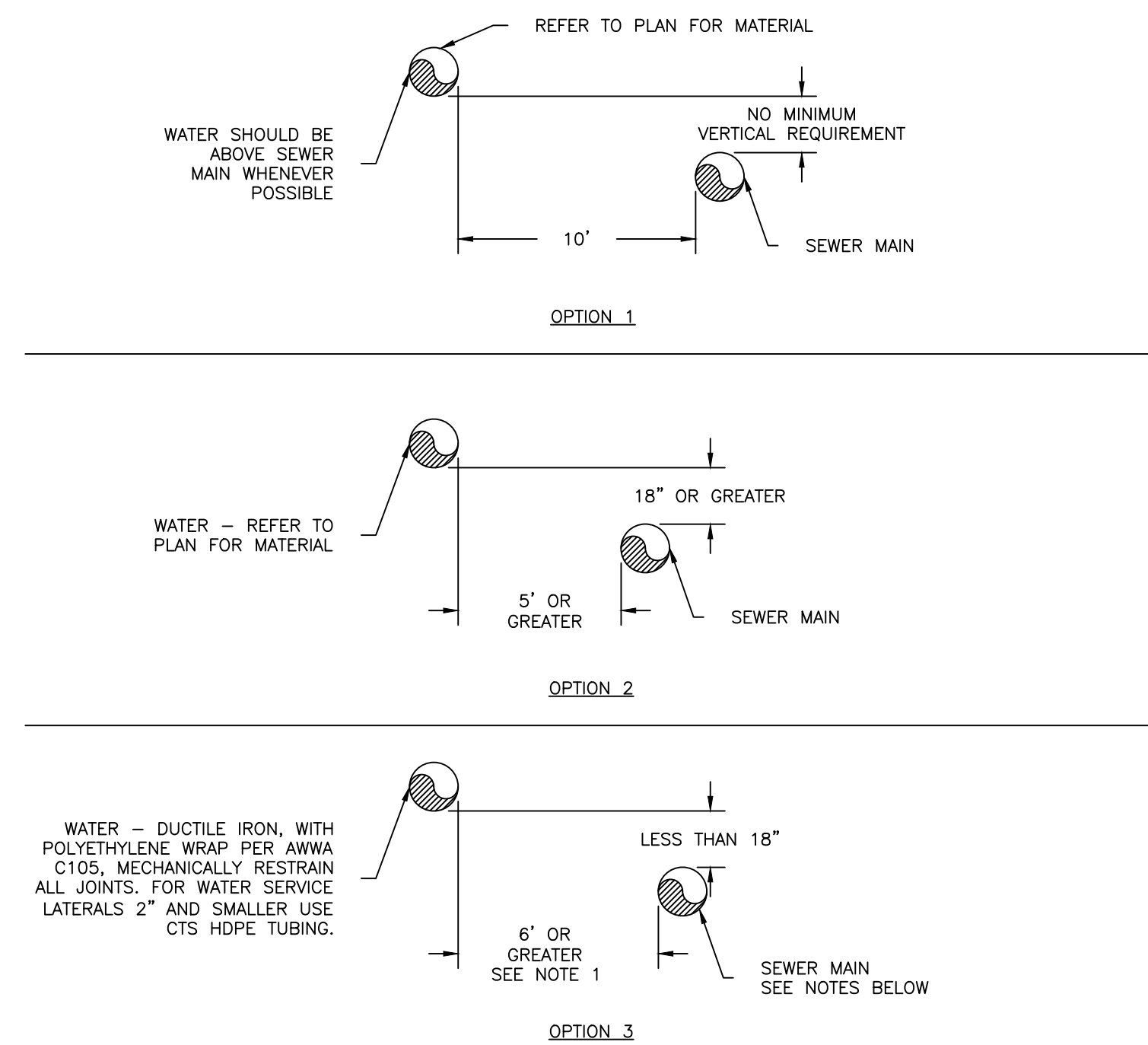
Client: **MAMMOTH YOSEMITE AIRPORT**

Project: **MAMMOTH SRE BUILDING**

MAMMOTH, CALIFORNIA
 Drawing Title: **UTILITY DETAILS**

Scale: N/A
 Project No.: IN2024-0022
 Drawing No.: **C05-04**

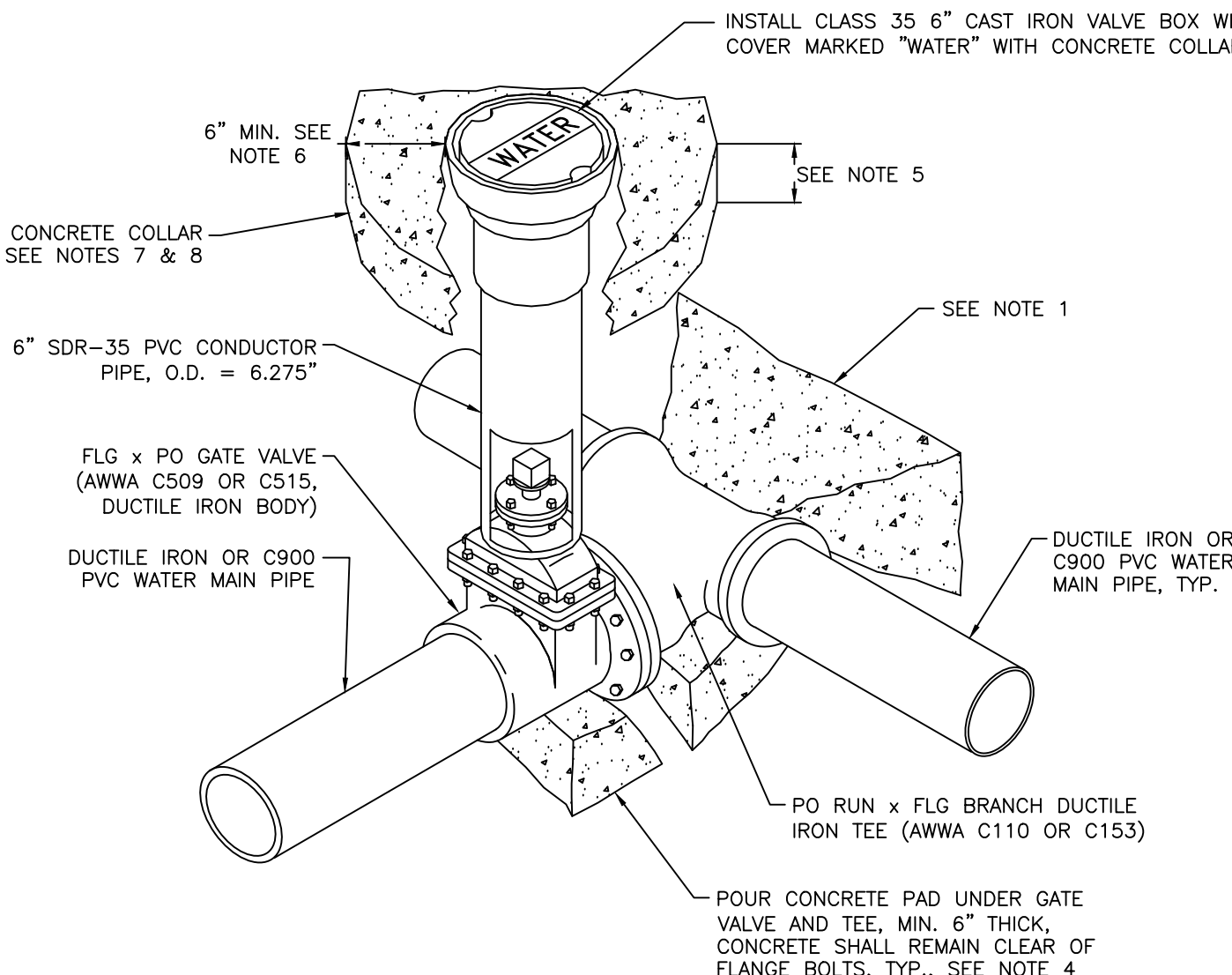
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NOTES:
 1. IF SEPARATION IS 10 FEET OR MORE USE OPTION 1.
 2. NON-PRESSURIZED SEWER MAINS SHALL BE SDR 35 PVC. IF SEWER MAINS ARE NON SDR 35 PVC, SEWER MAINS SHALL BE ENCASED IN 4" OF EXCAVABLE SLURRY, USE EXTERNAL JOINT SEALANT OR OTHER MITIGATION TO ENSURE JOINTS ARE WATERTIGHT, WHERE THE SEWER MAINS ARE PRESSURIZED, THE SEWER MAINS SHALL HAVE MECHANICALLY RESTRAINED JOINTS OR SHALL USE WELDED OR FUSED PIPE.
 3. FOR STORM SEWER MAINS WITH A DIAMETER OF 24" OR LARGER, THE SEWER MAINS SHALL BE INSTALLED WITH WATER TIGHT JOINTS THAT USE JOINT SEALANTS OR JOINT GASKETS.

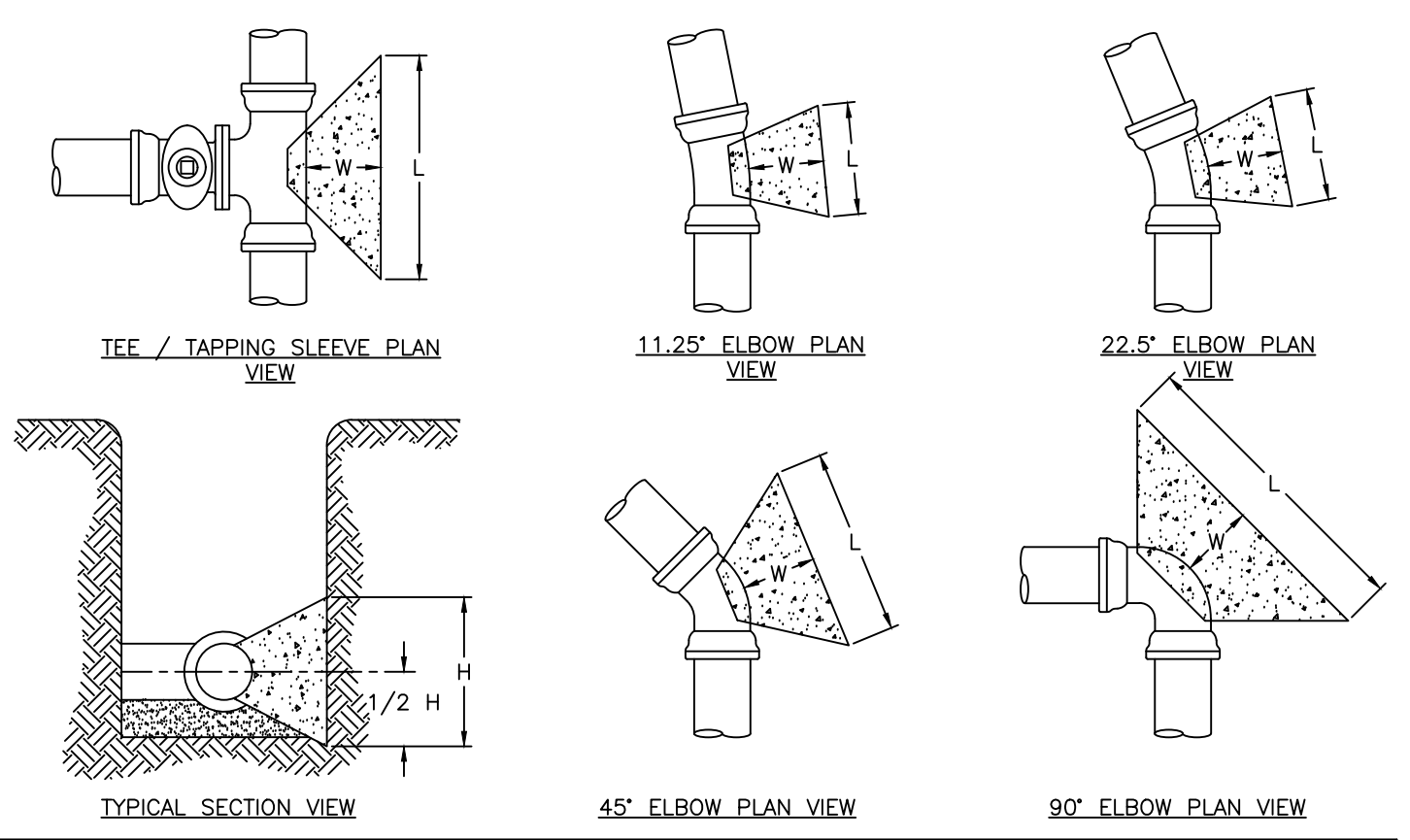
3 WATER MAIN/SERVICE LATERAL PARALLEL TO SEWER MAIN
 C05-05 N.T.S.

NOTES:
 1. REFERENCE STANDARD DETAIL 5 SHEET C05-05 FOR THRUST BLOCK SIZING AND REQUIREMENTS.
 2. ALL BOLTS AND EXPOSED METAL SHALL BE COATED WITH BRUSHED-ON MASTIC.
 3. TEE, VALVES, FITTINGS, DUCTILE IRON PIPE AND OTHER METAL PARTS SHALL BE ENCASED WITH POLYETHYLENE WRAP PER AWWA C105.
 4. CONCRETE FOR PADS SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 3,000 PSI AFTER 28 DAYS. BAG CONCRETE MIX IS NOT ACCEPTABLE.
 5. CONCRETE COLLAR SHALL BE MINIMUM 6-INCHES THICK OR MATCH PAVEMENT THICKNESS, WHICHEVER IS GREATER, UNLESS OTHERWISE SPECIFIED BY THE JURISDICTIONAL AGENCY RESPONSIBLE FOR THE ROADWAY.
 6. FOR MULTIPLE VALVE/RISER BOXES IN CLOSE PROXIMITY, A MONOLITHIC CONCRETE COLLAR MAY BE POURED.
 7. CONTRACTOR AND/OR DESIGN ENGINEER SHALL CONSULT WITH THE JURISDICTIONAL AGENCY RESPONSIBLE FOR THE ROADWAY FOR REQUIREMENTS THAT MAY VARY FROM THIS STANDARD PRIOR TO CONSTRUCTION.
 8. UNLESS OTHERWISE SPECIFIED BY THE JURISDICTIONAL AGENCY RESPONSIBLE FOR THE ROADWAY, PORTLAND CEMENT CONCRETE (P.C.C.) FOR CONCRETE COLLAR SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4,000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, MINIMUM 6% SACKS OF CEMENT PER CUBIC YARD WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. BAG CONCRETE MIX IS NOT ACCEPTABLE.



QTY.	DESCRIPTION	MATERIAL LIST
1	PO RUN x FLG BRANCH DUCTILE IRON TEE (AWWA C110 OR C153)	
1	FLG x PO GATE VALVE WITH DUCTILE IRON BODY (AWWA C509 OR C515)	
1	CLASS 35 6" CAST IRON VALVE BOX WITH COVER MARKED "WATER"	
1	6" SDR-35 PVC CONDUCTOR PIPE SECTION, O.D. = 6.275"	
-	CONCRETE BULK = THRUST BLOCKS, PADS, COLLARS	

4 MECHANICAL JOINT AND FLANGED TEES
 C05-05 N.T.S.

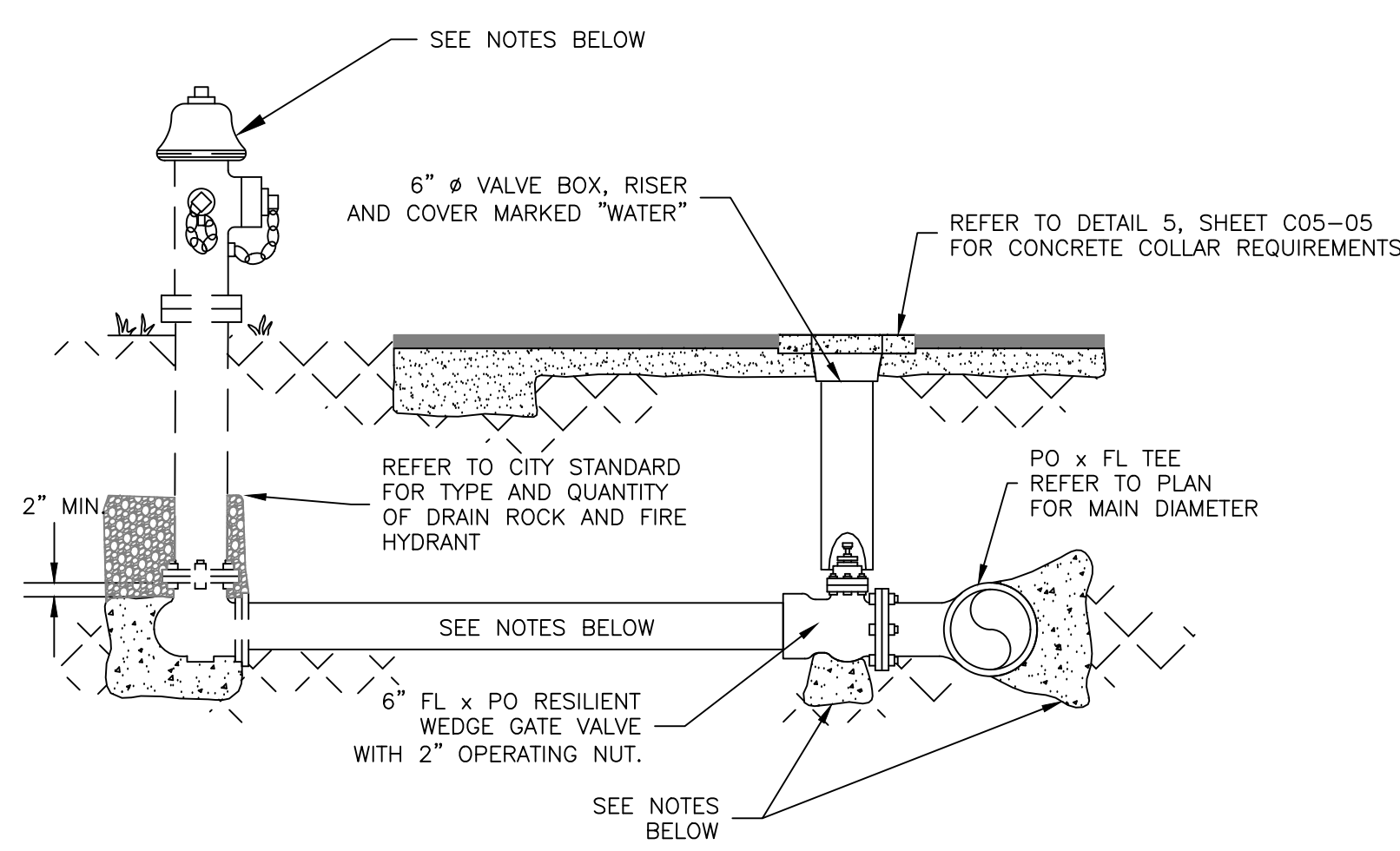


TEE, TAP, OR DEAD END BRANCH SIZE (INCHES)	THRUST BLOCK DIMENSIONS											
	11.25° ELBOW			22.5° ELBOW			45° ELBOW			90° ELBOW		
L (FEET)	H (FEET)	W MIN (FEET)	L (FEET)	H (FEET)	W MIN (FEET)	L (FEET)	H (FEET)	W MIN (FEET)	L (FEET)	H (FEET)	W MIN (FEET)	
4	1.5	1	1	1	1	1	1	1	1.5	1	1	2
6	2	1	1	1	1	1.5	1	1	2	1.5	1	2.5
8	3	2	1	1	1.5	1.5	1	2.5	2	1	4	2
10	3.5	2.5	1	1	2	2	1	3	2.5	1	5	2.5
12	4.5	3	1	1	2.5	2.5	1	4	3.5	1	6	3

THRUST BLOCK DESIGN CRITERIA:
 THRUST BLOCK SIZES HAVE BEEN CALCULATED USING THE METHOD AND EQUATIONS PUBLISHED IN THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE SIXTH EDITION 2008 BY THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) UTILIZING THE FOLLOWING DESIGN PARAMETERS: DESIGN PRESSURE = 150 PSI (SEE NOTE #4 BELOW), SOIL BEARING CAPACITY = 2,000 PSF (SEE NOTE #4 BELOW), SAFETY FACTOR = 1.5, AND NOMINAL PIPE DIAMETER.

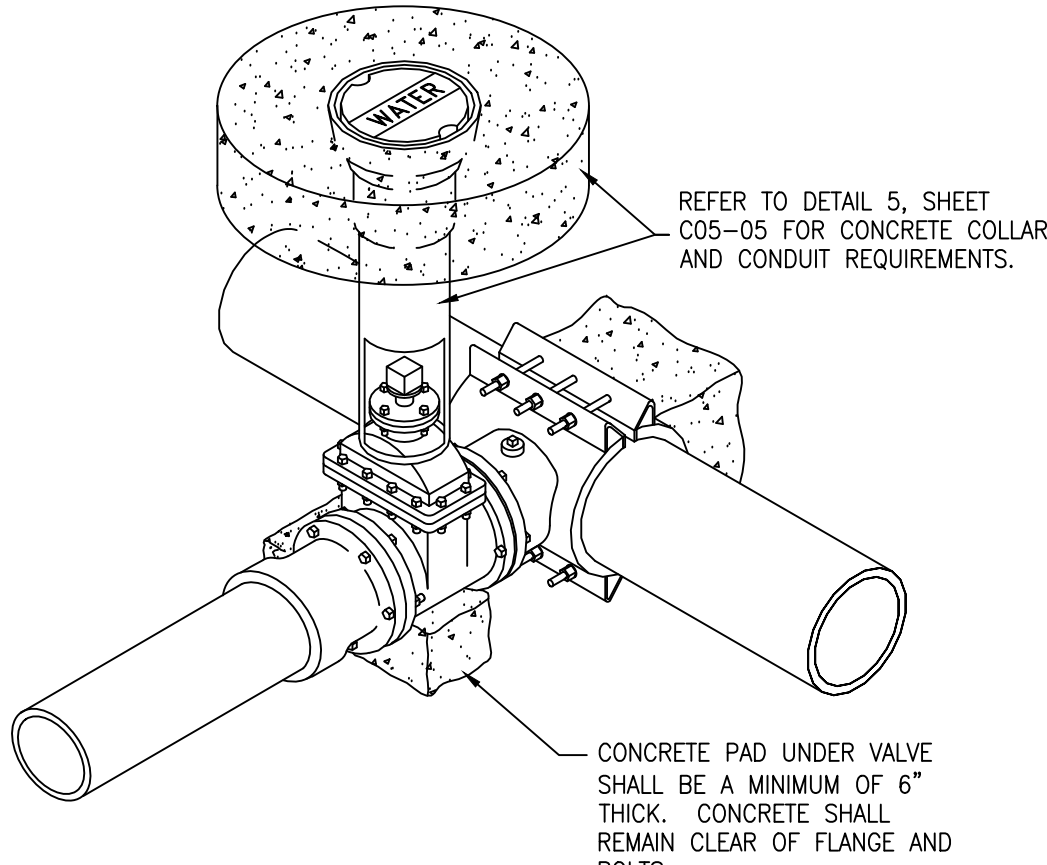
THRUST BLOCK NOTES:
 1. CONCRETE FOR THRUST BLOCKS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI. BAG CONCRETE MIX IS NOT ACCEPTABLE.
 2. ALL FITTINGS SHALL BE WRAPPED WITH POLYETHYLENE WRAP PER AWWA C105. MASTIC (BRUSH-ON) SHALL BE APPLIED TO ALL BOLTS, ETC.
 3. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL. IN CASES WHERE THIS IS NOT PRACTICAL, BACKFILL AREA BEHIND WHERE THRUST BLOCK WILL BE POURED WITH TYPE 2, CLASS B AGGREGATE BASE COMPACTED TO 95% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY PROCEDURES SET FORTH IN ASTM D 1557, CUT-BACK COMPACTED AGGREGATE BASE TO EXPOSE A FIRM SURFACE, THEN POUR THRUST BLOCK.
 4. FOR SOIL BEARING CAPACITY LESS THAN 2,000 PSF AND/OR DESIGN PRESSURE IN EXCESS OF 150 PSI, INCREASE THRUST BLOCK BEARING AREAS ACCORDINGLY. REVISED THRUST BLOCK SCHEDULE FOR SPECIFIC CONDITIONS SHALL BE SUBMITTED BY THE DESIGN ENGINEER.

5 THRUST BLOCK DETAIL
 C05-05 N.T.S.



NOTES:
 1. REFERENCE JURISDICTIONAL FIRE AGENCY FOR REQUIRED PIPE MATERIALS. POLYETHYLENE WRAP TO BE USED ON ALL DUCTILE IRON PIPE AND FITTINGS PER AWWA C105.
 2. REFER TO PLAN FOR ACTUAL DIAMETER AND LENGTH FOR HYDRANT LATERAL.
 3. KEEP A MINIMUM OF 2" CLEARANCE BETWEEN FLANGES/BOLTS AND CONCRETE.
 4. LOCATION OF FIRE HYDRANT TO BE DETERMINED BY APPROPRIATE GOVERNMENTAL FIRE AGENCY. FIRE HYDRANT AND BARREL EXTENSION TO BE SUPPLIED BY OTHERS.
 5. REFER TO JURISDICTIONAL AGENCY'S ADOPTED FIRE CODE FOR HYDRANT TYPE, COLOR AND CONNECTION TYPES.
 6. ALL EXPOSED METAL MUST BE COATED AND WRAPPED.
 7. REFER TO CITY STANDARDS OR DETAIL 5, SHEET C05-05 FOR THRUST BLOCK REQUIREMENTS. USE THE MOST CONSERVATIVE.

6 FIRE HYDRANT
 C05-05 N.T.S.



NOTES:
 1. TAPPING SLEEVE SHALL BE ROMAC MODEL SST, SMITH-BLAIR MODEL 663, OR JCM 432HP AND HAVE: A MAXIMUM TEST PRESSURE OF 300 PSI AND STAINLESS STEEL ASTM A 240, TYPE 304 FLANGE.
 2. WHEN TAPPING STEEL OR OD STEEL BACKING PLATE MUST BE DESIGNED BY ENGINEER. WHEN TAPPING OD STEEL SIZE ON SIZE, REDUCE TAP ONE SIZE THEN BELL UP AFTER TAP. MAIN THICKNESS AND OUTSIDE DIAMETER SHALL BE FIELD VERIFIED.
 3. REFER TO STANDARD DETAIL 5 SHEET C05-05 FOR THRUST BLOCK SIZING AND REQUIREMENTS.
 4. ALL EXPOSED METAL MUST BE COATED WITH BRUSH ON MASTIC. WAX TAPE COATING SYSTEMS MAY BE REQUIRED, REFER TO PLANS FOR LOCATIONS.
 5. REMOVE TEST PLUG AND HYDROSTATICALLY PRESSURE TEST TAPPING SLEEVE NOT TO EXCEED MANUFACTURER'S PRESSURE RATING, APPLY PIPE COMPOUND, AND REINSERT PLUG.
 6. VALVE SHALL BE BLIND FLANGED AND PRESSURE TESTED AT TIME OF TAPPING SLEEVE PRESSURE TEST.
 7. EDGE OF CUTTER SHALL BE A MINIMUM OF 24" FROM THE CUT OR SPIGOT END OF THE PIPE OR THE PIPE TO BELL TRANSITION.
 8. FOR TAPS ON TRANSITE, THE OUTSIDE DIAMETER OF THE MAIN MUST BE FIELD MEASURED PRIOR TO ORDERING PARTS.
 9. ALL BOLTS, WASHERS AND ASSOCIATED HARDWARE SHALL BE FLUOROPOLYMER COATED. USE WASHERS BETWEEN ALL HEAD CONNECTIONS.

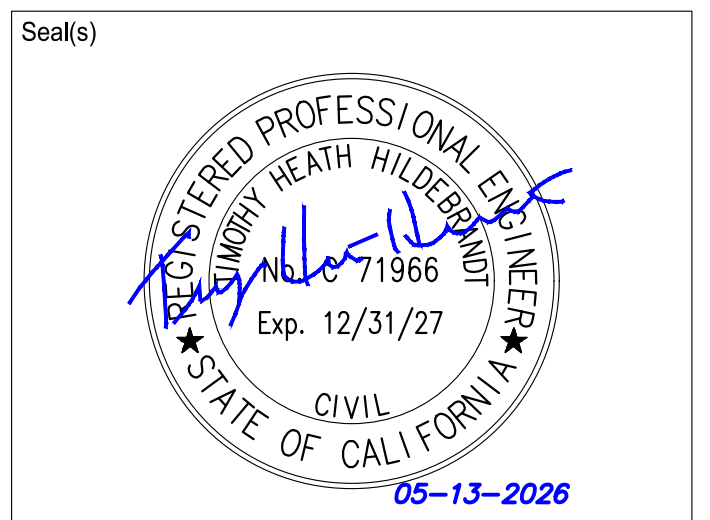
7 TAPPING SLEEVE
 C05-05 N.T.S.

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Project Component	
Key Plan	

Consultants	Survey: Brandley Engineering
	Civil: Kimley-Horn
	Architecture: NORR
	Structural: Bevier Structural Eng
	Mechanical: NORR
	Electrical: NORR
	Interiors: NORR
	Fire Sprinkler: Sacramento Engineering Consultants



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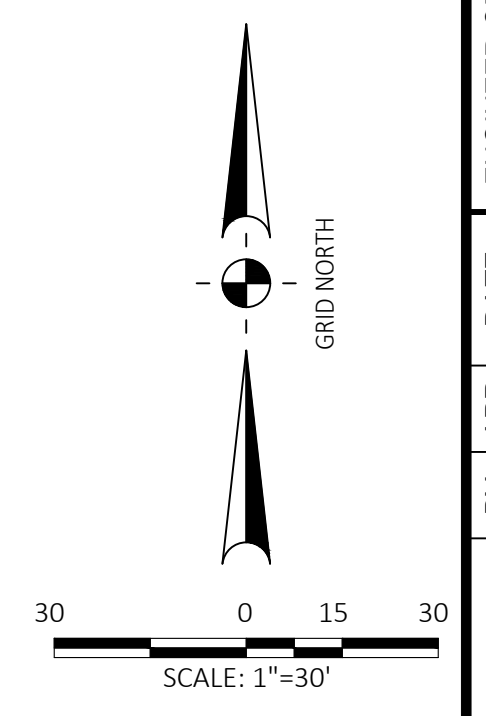
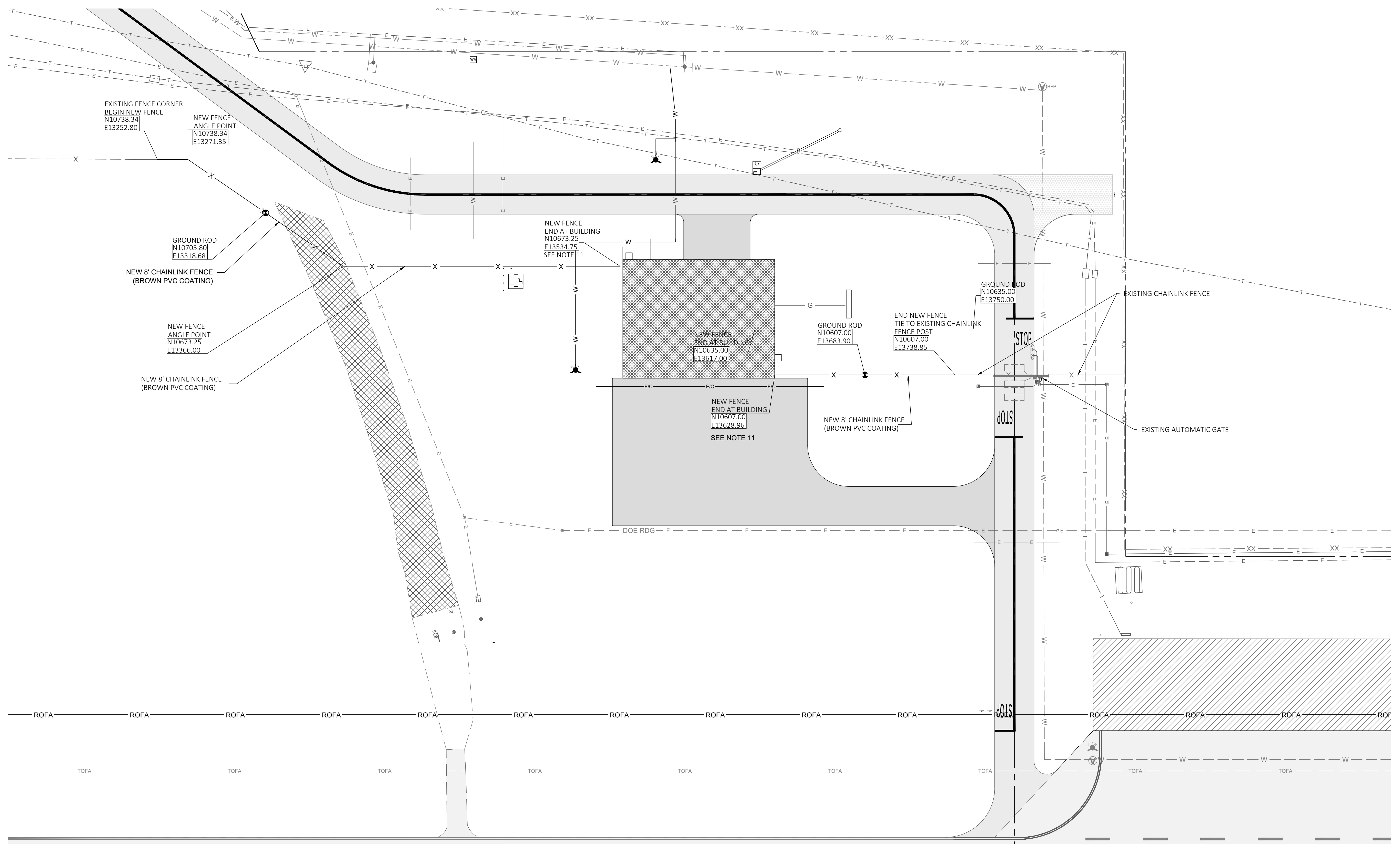
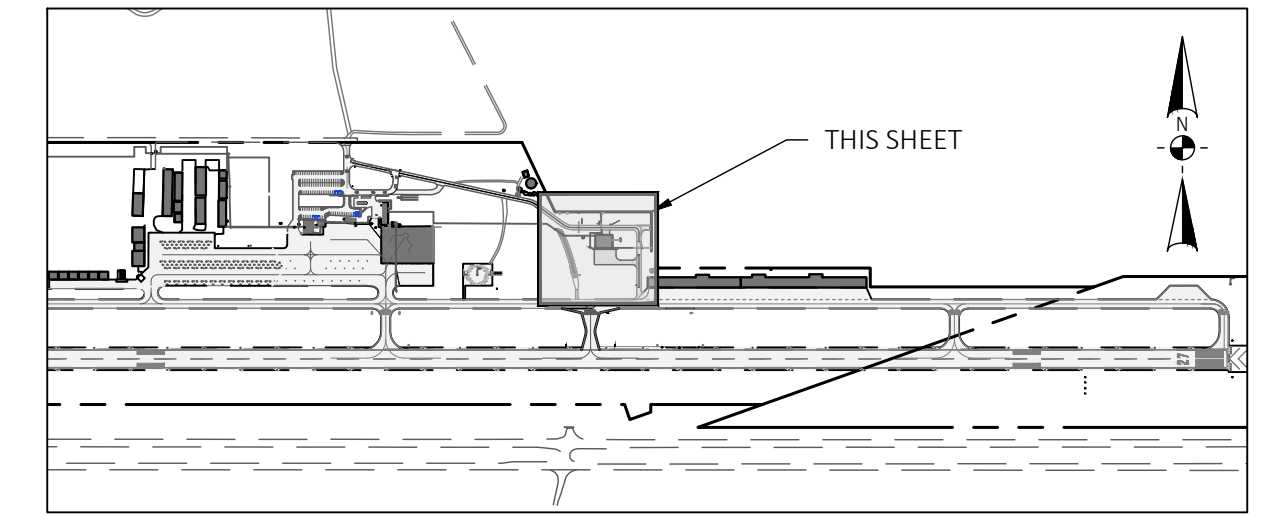
Project Manager	Drawn
	AES
Project Leader	Checked
	JWF

Client
MAMMOTH YOSEMITE AIRPORT

Project
MAMMOTH SRE BUILDING
 MAMMOTH, CALIFORNIA
 Drawing Title
UTILITY DETAILS
 Scale
 N/A
 Project No.
 IN2024-0022
 Drawing No.
C05-05

- NOTES:
- SEE DEMOLITION PLAN FOR FENCE REMOVAL, SEE SHEET C02-01 AND SHALL BE VERIFIED BY RESIDENT ENGINEER IN THE FIELD PRIOR TO THE CONSTRUCTION OF THE NEW FENCE IN THE AREA.
 - CONTRACTOR SHALL BACKFILL AND COMPACT ALL POST HOLES CREATED BY FENCE REMOVAL WITH NATIVE MATERIAL FROM DESIGNATED BORROW SITE OR EXCESS MATERIAL FROM PERIMETER FENCE AND TEMPORARY HAUL ROAD GRADING.
 - CONTRACTOR SHALL SCHEDULE WORK SUCH THAT EXISTING FENCE AND GATES SHALL NOT BE REMOVED UNTIL MATERIALS AND EQUIPMENT ARE AVAILABLE FOR CONSTRUCTING THE NEW FENCE OR GATES.
 - IN AREAS WHERE THE NEW FENCE IS NOT LOCATED IN THE SAME LOCATION AS THE EXISTING FENCE, THE EXISTING FENCE SHALL REMAIN IN PLACE TO PROVIDE SECURITY FOR THE AIRPORT UNTIL THE NEW FENCE IS INSTALLED.
 - CONTRACTOR SHALL USE TEMPORARY FENCING AND SWING GATES WITH PADLOCKS AS NEEDED TO MAINTAIN SECURITY OF THE AIRPORT AT NEW GATE LOCATIONS.
 - CONTRACTOR SHALL PROVIDE A WEEKLY PROGRESS SCHEDULE TO THE RESIDENT ENGINEER AND AIRPORT MANAGER, INCLUDING AREAS OF NEW FENCE POST HOLES EXCAVATED, NEW POSTS SET, CHAINLINK FABRIC INSTALLED AND GATES INSTALLED.
 - RECENT PROPERTY LINE SURVEYS HAVE BEEN CONDUCTED AND EXISTING PROPERTY CORNERS HAVE BEEN MONUMENTED. PROTECT MONUMENTS FROM DAMAGE.
 - CONTRACTOR SHALL CLEAR AND GRADE 5' ON THE OUTSIDE OF THE TOTAL NEW FENCE LINE AND 10' ON THE INSIDE OF THE NEW FENCE LINE. FENCE LINE SHALL BE GRADED SMOOTH WITH UNIFORM GRADE WITH NO ABRUPT CHANGES, SO THAT BOTTOM OF FENCE IS STRAIGHT LINE AT GROUND LEVEL WITH NO MORE THAN +/- 1" FROM GRADE. NO SEPARATE PAYMENT FOR CLEARING OF NEW FENCE LINE IN ACCORDANCE WITH SPECIFICATIONS. NO SEPARATE PAYMENT FOR GRADING OF NEW FENCE LINE. SEE DETAIL SHEET C06-02.
 - 5/8" x 8" GROUND RODS SHALL BE INSTALLED AND CONNECTED TO THE NEW FENCE LINE. GROUND RODS SHALL BE LOCATED APPROXIMATELY EVERY 500', AS SHOWN ON THE PLAN. SEE DETAIL SHEET C06-02.
 - SEE FENCE DETAILS SHEET C06-02.
 - FENCE CONTRACTOR SHALL COORDINATE LOCATION OF FENCE POST LOCATION WITH BUILDING CORNER LOCATION AND FOUNDATION. CONTRACTOR SHALL PROVIDE DETAIL OF FENCE TIE TO NEW BUILDING CORNER. DETAIL SHALL BE APPROVED BY ENGINEER.

- LEGEND
- N9738.46
E13727.35 AIRPORT GRID COORDINATE
 - EXISTING PAVEMENT
 - NEW PAVEMENT
 - X EXISTING FENCE
 - X NEW FENCE LINE
 - X FENCE LINE GROUND ROD
 - E EX ELECTRICAL DUCT
 - E NEW ELECTRICAL DUCT
 - C NEW COMM DUCT
 - W EXISTING WATER MAIN
 - SS NEW WATER SERVICE
 - G NEW GAS LINE
 - SS NEW SEPTIC LINE



G:\75 MAMMOTH\21-27 AFF\ BLD25-2 SRE SITE\7522-2.C0603.FENCE.DWG PLOTTED BY Kevin Currey 5/28/2026 9:38 AM

BRANDLEY ENGINEERING
6125 KING ROAD, SUITE 201 · LOOMIS, CALIFORNIA 95650 · (916) 652-4725

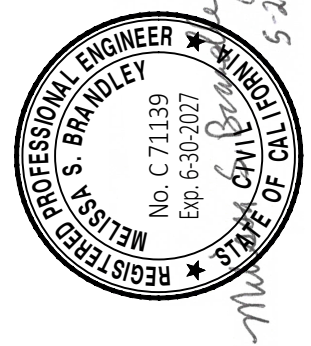
ENGINEER OF RECORD

BY	DATE	REVISIONS

MAMMOTH YOSEMITE AIRPORT CALIFORNIA

SNOW REMOVAL EQUIPMENT BUILDING FENCE LAYOUT PLAN

DATE	3/26/2026
DRAWN	TS
CHECKED	MSB
PROJECT No.	75.22
FILE	7522-2.C0603.Fence
SCALE	1"=30'
SHEET No.	C06-01



ENGINEER OF RECORD

BY / APR / DATE

REVISIONS

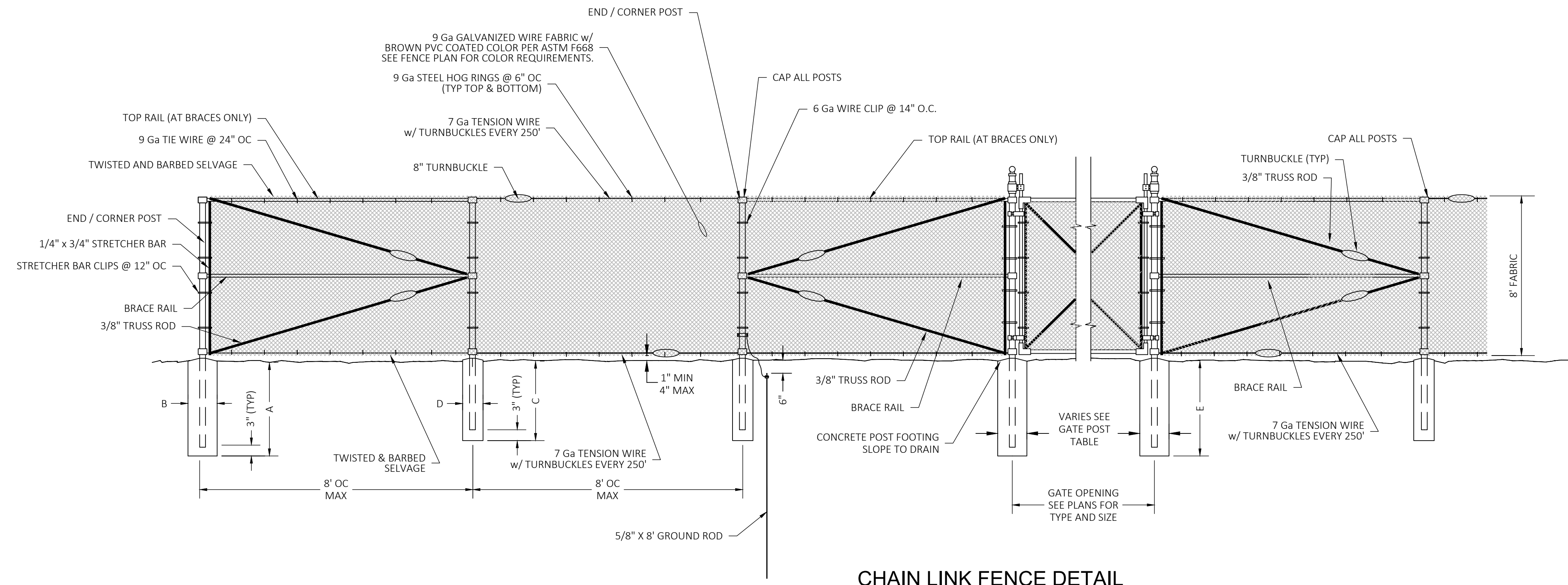
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MAMMOTH YOSEMITE AIRPORT CALIFORNIA

SNOW REMOVAL EQUIPMENT BUILDING

FENCE DETAILS

DATE	3/26/2026
DRAWN	TS
CHECKED	MSB
PROJECT No.	75.22
FILE	7522-2.C0603.Fence
SCALE	AS SHOWN
SHEET No.	C06-02



CHAIN LINK FENCE DETAIL

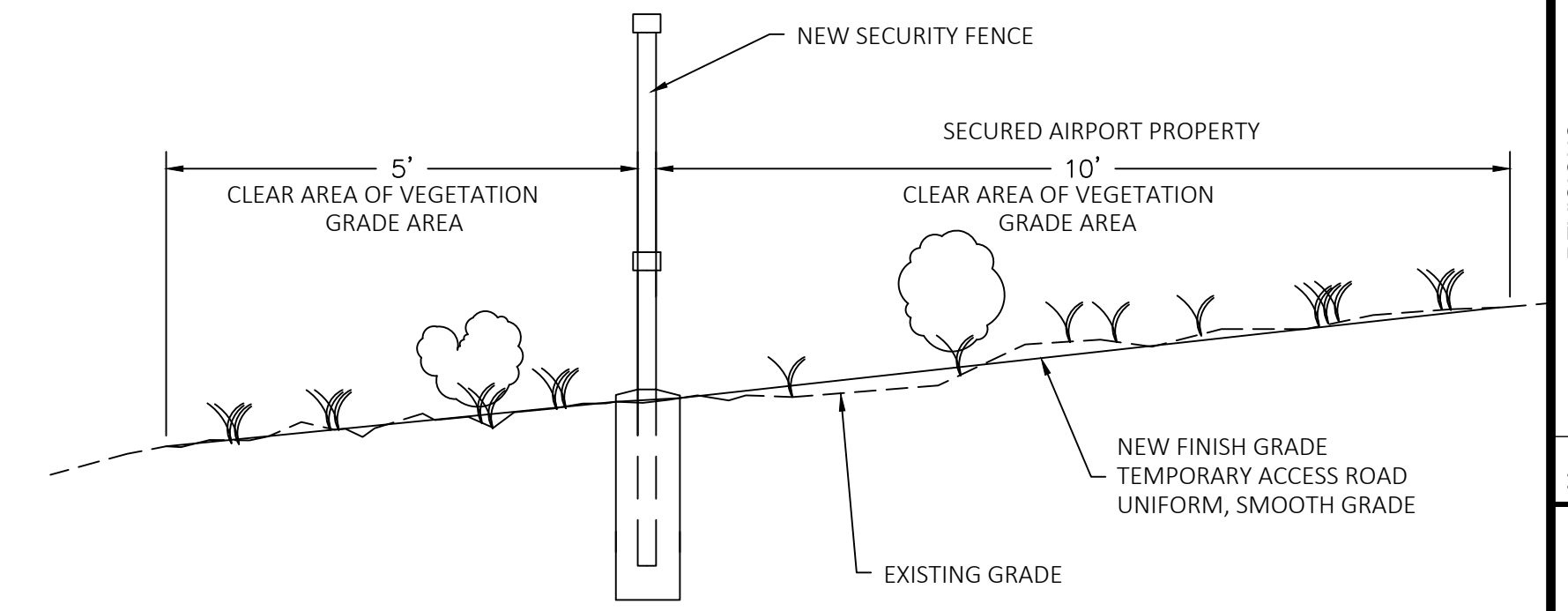
NTS

NOTE:

- ALL MEMBERS TO BE HOT-DIPPED GALVANIZED, CONFORMING TO TYPE A OR GROUP 1C (HIGH STRENGTH PIPE). EXTERNAL COATING TYPE B & INTERNAL COATING TYPE B OR D. ALL MEMBERS SHALL BE PVC COATED COLOR BROWN. COLOR EXAMPLS SHALL BE SUBMITTED TO SPONSOR FOR APPROVAL. SEE LAYOUT PLANS FOR LOCATION OF NEW CHAINLINK FENCE.
- FOR GATE POST SIZES SEE GATE DETAILS THIS SHEET.
- FOR A STRAIGHT RUN OF THE FENCE LINE, BRACE POSTS AND BRACE RAILS SHALL BE INSTALLED AT INTERVALS NOT TO EXCEED 500 FEET. BRACE POSTS SHALL BE THE SAME POST AS A CORNER OR END POST. BRACE RAILS SHALL BE INSTALLED ON BOTH SIDES OF THE BRACE POST. INSTALL TOP RAIL AT ALL BRACE AND CORNER POST LOCATIONS.
- BEFORE EXCAVATING THE NEW FENCE LINE POSTS, THE NEW FENCE LINE SHALL BE GRADED SMOOTH TO A UNIFORM GRADE SO THE GAP BETWEEN THE BOTTOM OF THE FENCE FABRIC AND THE GROUND IS 1" MINIMUM AND 4" MAXIMUM. FENCE POSTS SHALL BE LOCATED AS NEEDED TO ADJUST FENCE TO BREAKS IN THE GROUND. SEE DETAIL BELOW FOR LIMITS OF NEW FENCE LINE AND TEMPORARY ACCESS ROAD.
- AFTER DEBRIS AND VEGETATION HAVE BEEN CLEARED, THE GRADED FENCE LINE SHALL BE MOISTENED AND RECOMPACTED TO A DEPTH OF 6" AND A RELATIVE COMPACTION OF 90% MINIMUM.
- TURNBUCKLES SHALL BE INSTALLED AT THE END, EACH CORNER OF THE FENCE LINE AND AT INTERMEDIATE LOCATIONS ON THE TENSION WIRES AT SPACING NOT TO EXCEED 250'. TURNBUCKLES SHALL BE GALVANIZED STEEL 1/2" WITH 4 1/2" MIN. ADJUSTMENT.
- TENSION WIRE SHALL BE 7 GAUGE COILED SPRING STEEL WIRE COATED SIMILAR TO THE RESPECTIVE WIRE FABRIC BEING USED.
- HOG RINGS SHALL BE 9 GAUGE GALVANIZED STEEL PLACED AT 6" MAXIMUM SPACING ON TOP AND BOTTOM TENSION WIRES.
- 6 GAUGE WIRE CLIPS SHALL BE PLACED AT 14" MAXIMUM SPACING ON EACH FENCE POST.
- ALL CHAINLINK FENCE POSTS AND GATE POSTS SHALL BE SUPPLIED WITH GALVANIZED POST CAPS. ALL POST CAPS SHALL BE FIRMLY ATTACHED TO POST.
- CHAINLINK FENCE FABRIC WIRE SHALL BE PVC COATED, BROWN IN COLOR IN ACCORDANCE WITH ASTM F668 AND F934. CONTRACTOR SHALL HANDLE FENCE FABRIC WITH CARE. ANY DAMAGE TO FABRIC OR MEMBER COATING PRIOR TO AND DURING INSTALLATION SHALL BE REPAIR BY CONTRACTOR AT NO EXPENSE TO THE OWNER.
- INSTALL NEW 5/8" x 8" COPPER CLAD GROUND ROD, WITH TOP OF ROD 6" BELOW FINISH GRADE, AT 500' INTERVALS AT LOCATIONS OR AS SHOWN ON THE PLANS. USE #6 BARE COPPER WIRE CLAMPED TO FENCE POST AND GROUND ROD. NO SEPERATE PAYMENT FOR FENCE GROUNDING. SEE DETAIL THIS SHEET.
- CONCRETE FOR ALL FENCE WORK SHALL BE 3000 PSI AND MEET P610 SPECIFICATIONS. NO CONCRETE WASH OUT IN FENCE POST HOLES. CONTRACTOR SHALL BUILD LINED RETENTION BASIN FOR CLEANOUT OR CONCRETE TRUCKS SHALL BE SELF CONTAINED.
- ALL FENCE AND GATE POSTS SHALL BE PROVIDED SUCH THAT MATCHING POST TOP CAP CAN BE REMOVED AND REPLACED WITH OUTRIGGER EITHER HORIZONTAL OR 45 DEG ANGLE, DESIGNED TO SUPPORT 3 BARB WIRES.

FENCE MEMBER DIMENSIONS				
MEMBER	PIPE SIZE	OUTSIDE DIA	WALL THICKNESS	WEIGHT
END / CORNER POST	2-7/8"	2.875"	0.203"	5.80 LB/FT
LINE POST	2-3/8"	2.375"	0.154"	3.65 LB/FT
TOP & BRACE RAILS	1-5/8"	1.660"	0.140"	2.27 LB/FT

FENCE POST FOUNDATION DIMENSIONS		
DIMENSION DESIGNATION	FENCE POST TYPE	DIMENSION
DEPTH (A)	END & CORNER	42"
DIAMETER (B)	END & CORNER	12"
DEPTH (C)	LINE	36"
DIAMETER (D)	LINE	8"
DEPTH (E)	GATE	42"

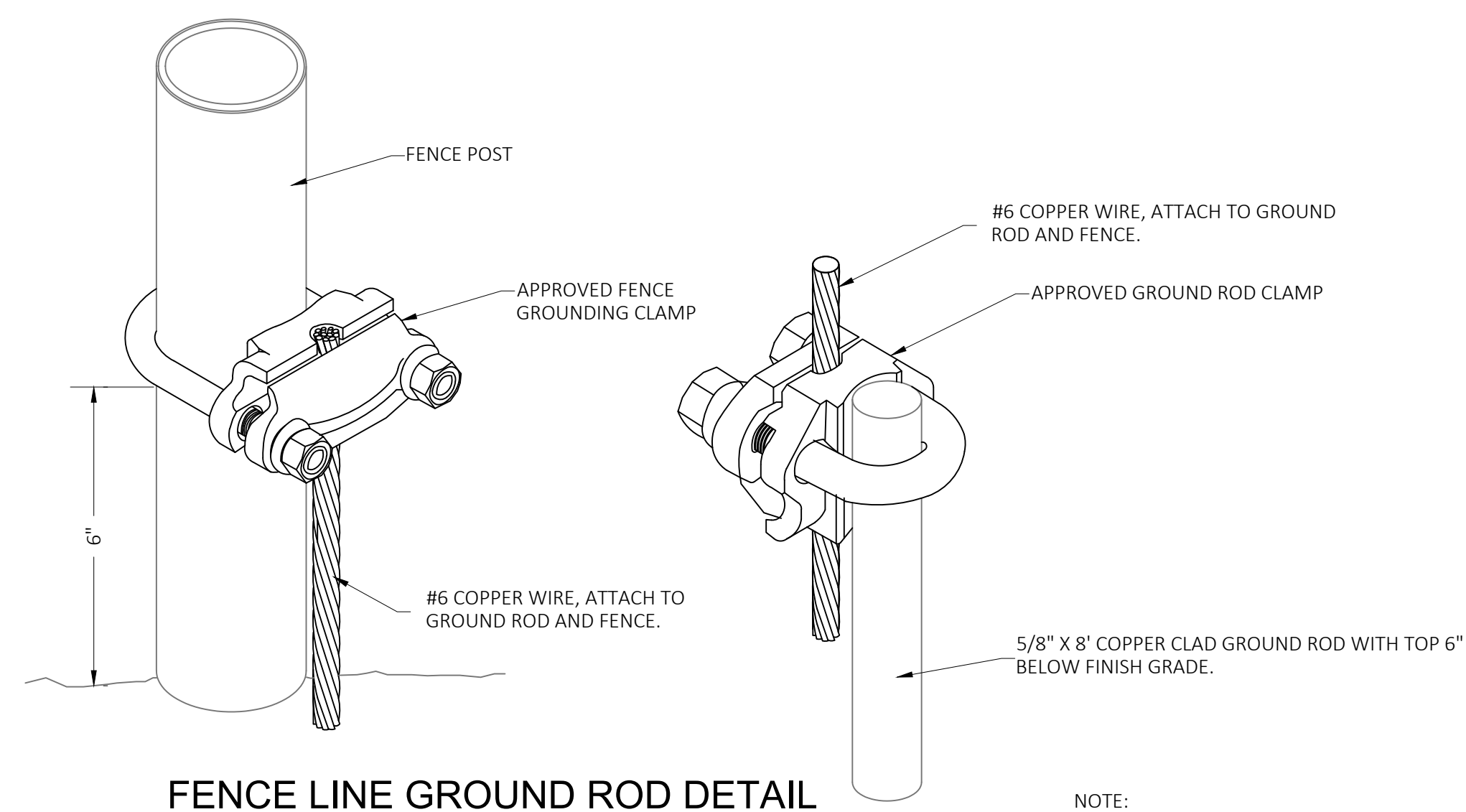


FENCE LINE AND SERVICE ROAD GRADING DETAIL

NO SCALE

NOTES:

- ALL EXISTING FENCE TO BE REMOVED, AS SHOWN ON THE PLANS, SHALL INCLUDE POSTS, CONCRETE FOOTINGS, WIRE, FABRIC AND GATES. ALL MATERIALS SHALL BE REMOVED FROM THE AIRPORT. ALL VEGETATION SPOILS SHALL BE REMOVED FROM AIRPORT PROPERTY OR MULCHED BY APPROVED METHODS AND SPREAD OVER WORK AREA AFTER FENCE LINE IS COMPLETED.
- CONTRACTOR SHALL BACKFILL ALL POST HOLES WITH NATIVE MATERIAL FROM DESIGNATED BORROW SITE OR EXCESS MATERIAL SOIL FROM PERIMETER FENCE TEMPORARY HAUL ROAD GRADING.
- CONTRACTOR SHALL CLEAR AND GRADE 5' ON THE OUTSIDE OF THE TOTAL NEW FENCE LINE AND 10' ON THE INSIDE OF THE NEW FENCE LINE. FENCE LINE SHALL BE GRADED SMOOTH WITH UNIFORM GRADE WITH NO ABRUPT CHANGES, SO THAT BOTTOM OF FENCE IS STRAIGHT LINE AT GROUND LEVEL WITH NO MORE THAN 1" MINIMUM AND 4" MAXIMUM FROM GRADE. NO SEPERATE PAYMENT FOR CLEARING OF NEW FENCE LINE IN ACCORDANCE WITH SPECIFICATIONS. SEE DETAIL ABOVE.

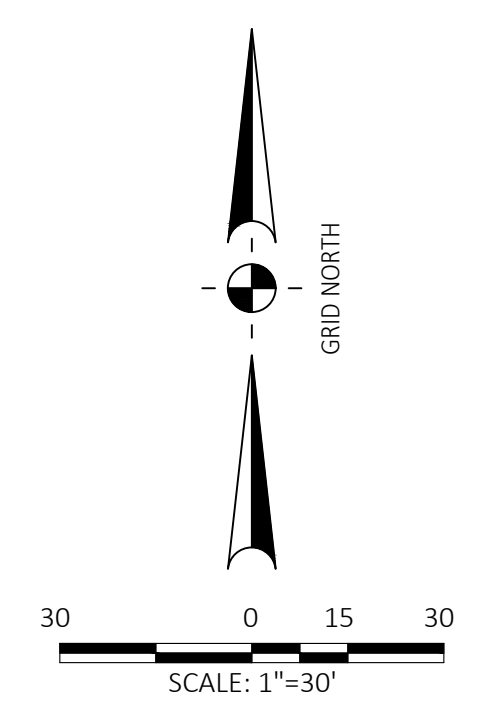


FENCE LINE GROUND ROD DETAIL

NTS

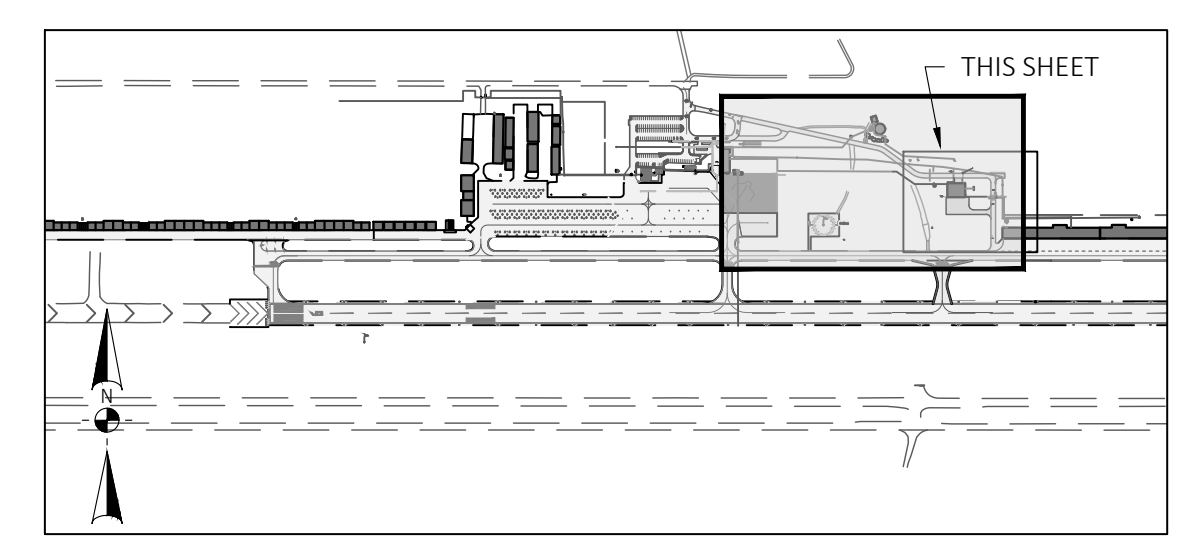
NOTE:
NO SEPERATE PAYMENT FOR GROUND ROD, COPPER WIRE OR CLAMPS.

G:\75 MAMMOTH\21-22 AFFX BLD252-2 SRE SITE\7522-2.C0701.ELECT.DWG PLOTTED BY Kevin Curry 5/28/2026 9:38 AM

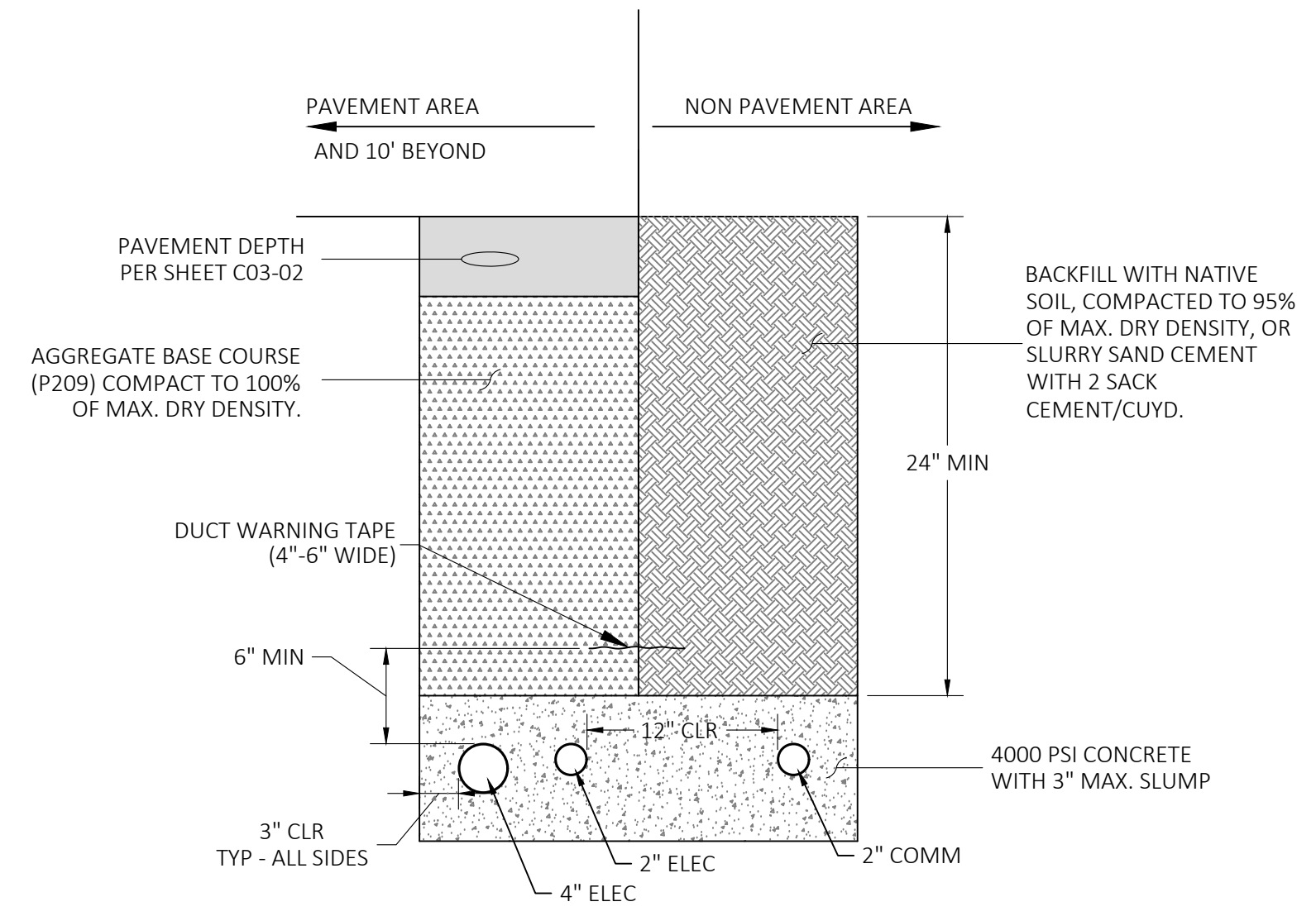
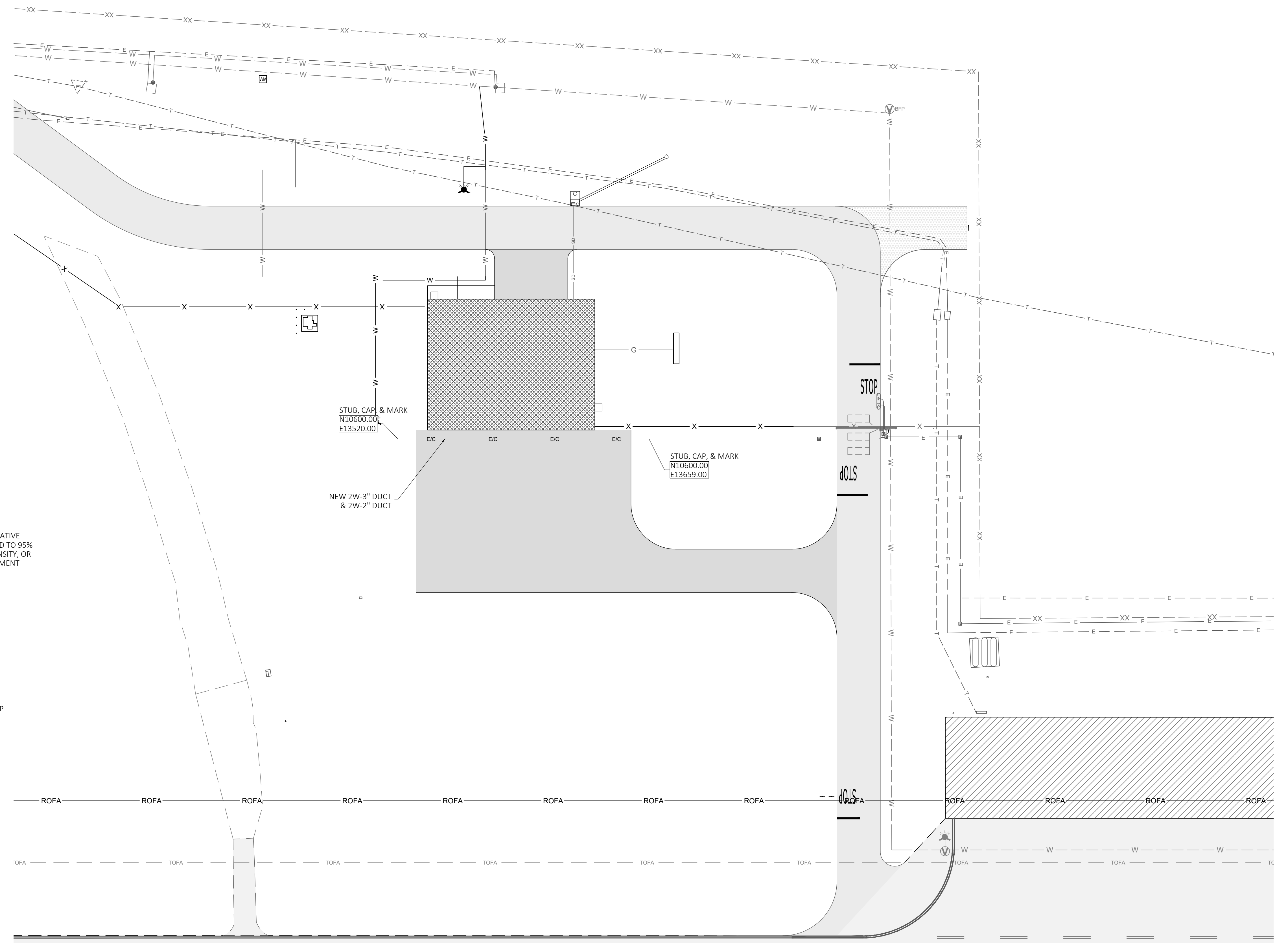


LEGEND

	AIRPORT GRID COORDINATE
	EXISTING PAVEMENT
	NEW PAVEMENT
	EXISTING FENCE
	EX ELECTRICAL DUCT
	EX UNDERGROUND TELEPHONE
	NEW JOINT ELECTRICAL & COMM DUCTS
	EXISTING WATER MAIN
	NEW WATER SERVICE
	NEW GAS LINE
	NEW SEPTIC LINE

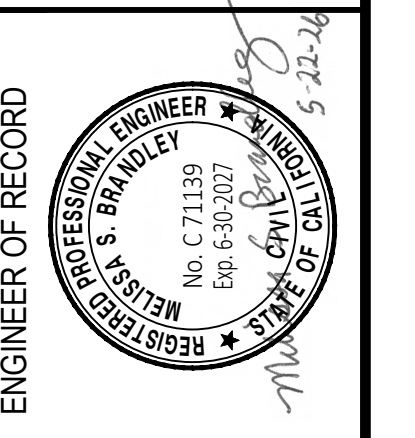


LOCATION MAP



CONCRETE ENCASED 1W-4", 1W-2" ELEC AND 1W-2" COMM CONDUIT

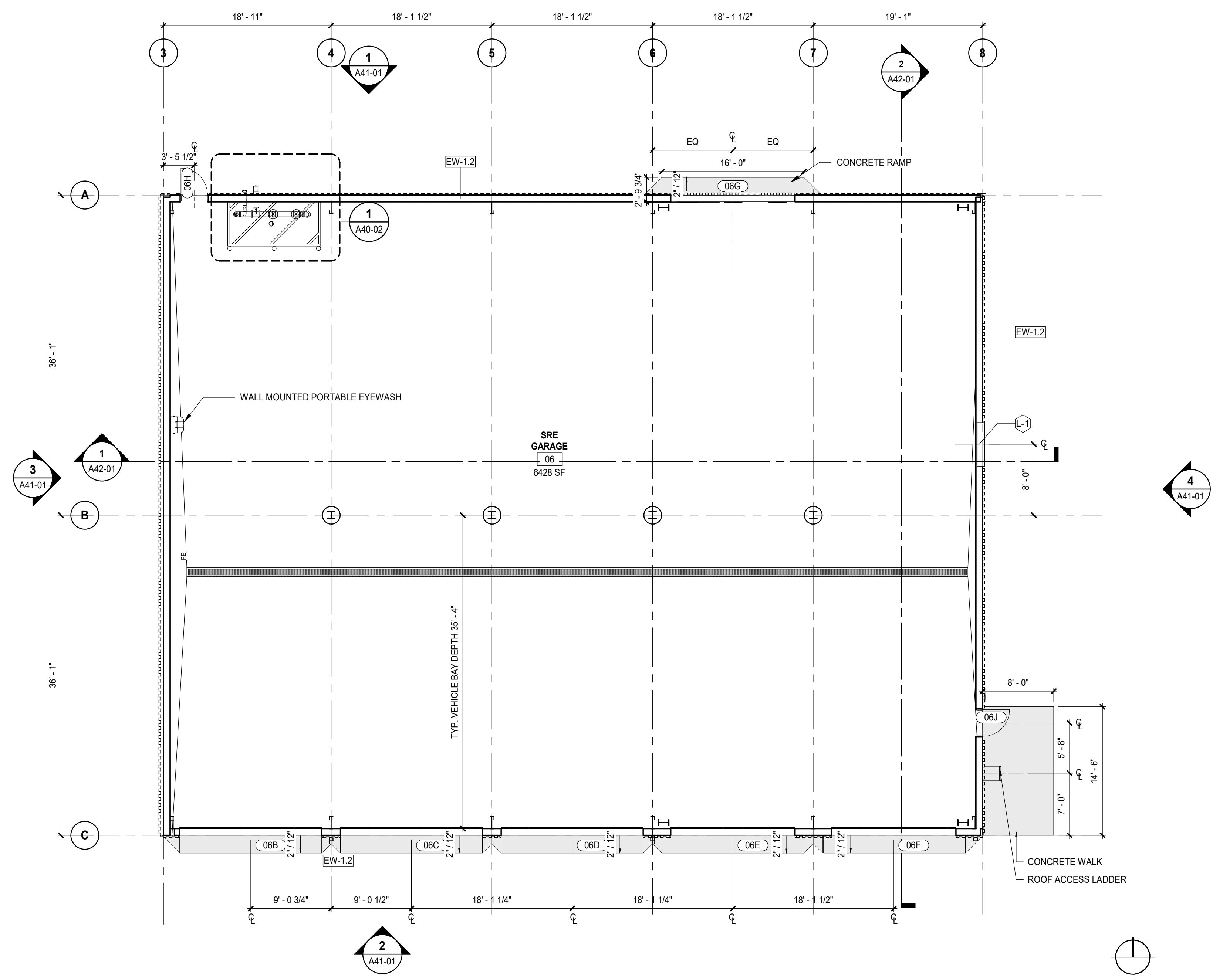
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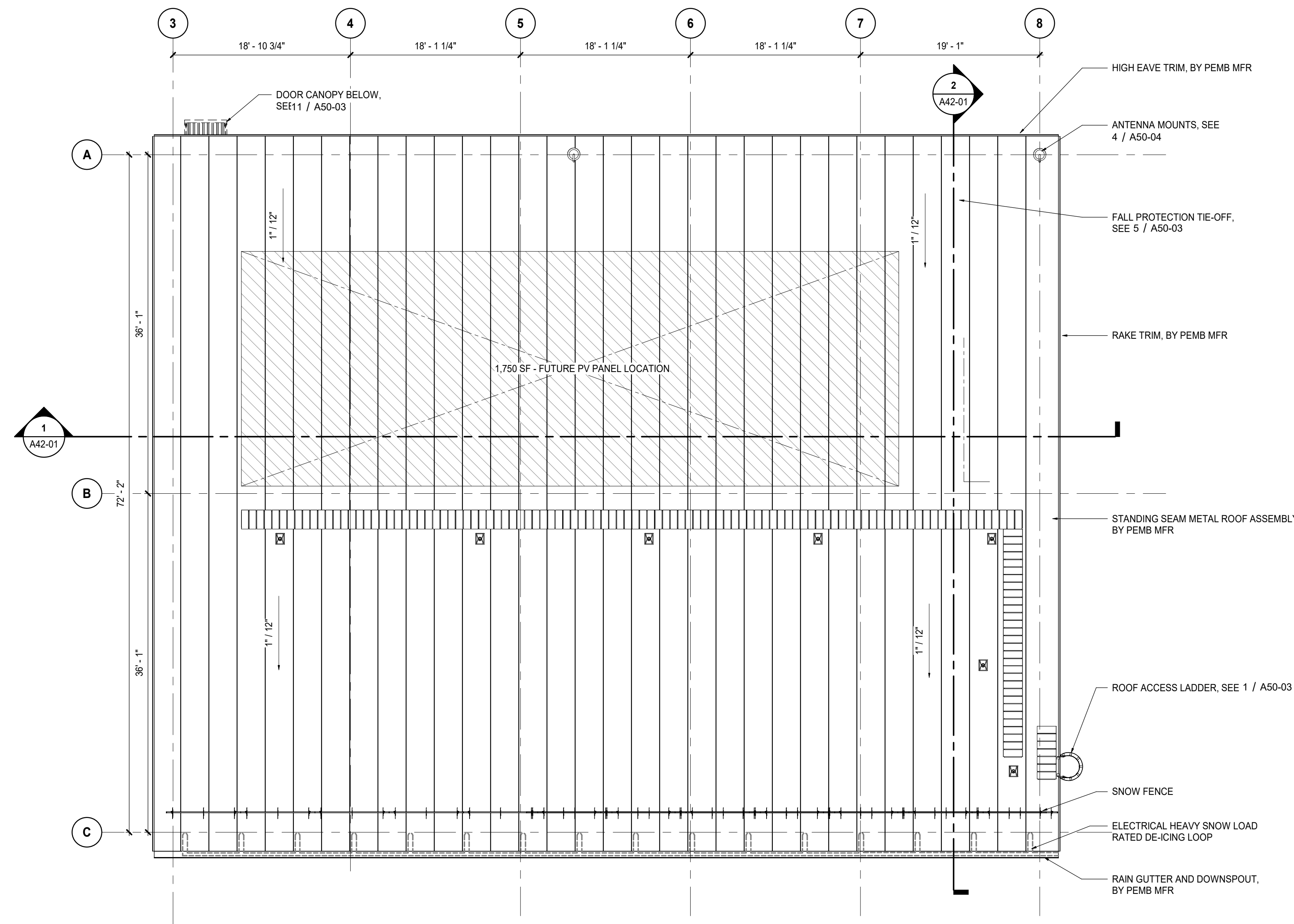
REVISIONS	BY	DATE

MAMMOTH YOSEMITE AIRPORT
 CALIFORNIA
SNOW REMOVAL EQUIPMENT BUILDING
 ELECTRICAL PLAN

DATE	3/26/2026
DRAWN	KDC
CHECKED	MSB
PROJECT No.	75.22
FILE	7522-2.C0701.Elect
SCALE	1"=30'
SHEET No.	C07-01



1 LEVEL 1 OVERALL FLOOR PLAN
 SCALE: 1/8" = 1'-0"



2 ROOF PLAN
 SCALE: 1/8" = 1'-0"

Wall Schedule				
Type Mark	AssyDescr	DETAIL NO.	Fire Rating	Type Comments
EW-1.2	TECHFOUR METAL PANEL 8.5" Z-GIRTS 250S125-18 METAL STUDS 5/8" PLYWOOD SHEATHING	15/A50-03	N/A	EW-2.2 SEE 15/A50-03

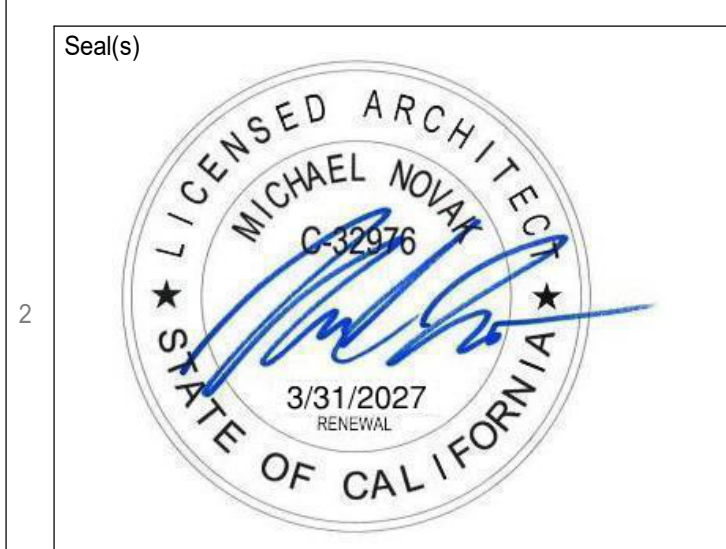
DATE	ISSUED FOR	REV

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Project Component
 Key Plan

Consultants
 Survey: Brandley Engineering
 Civil: Kimley-Horn
 Architecture: NORR
 Structural: Bevier Structural Eng
 Mechanical: NORR
 Electrical: NORR
 Interiors: NORR
 Fire Sprinkler: Sacramento Engineering Consultants

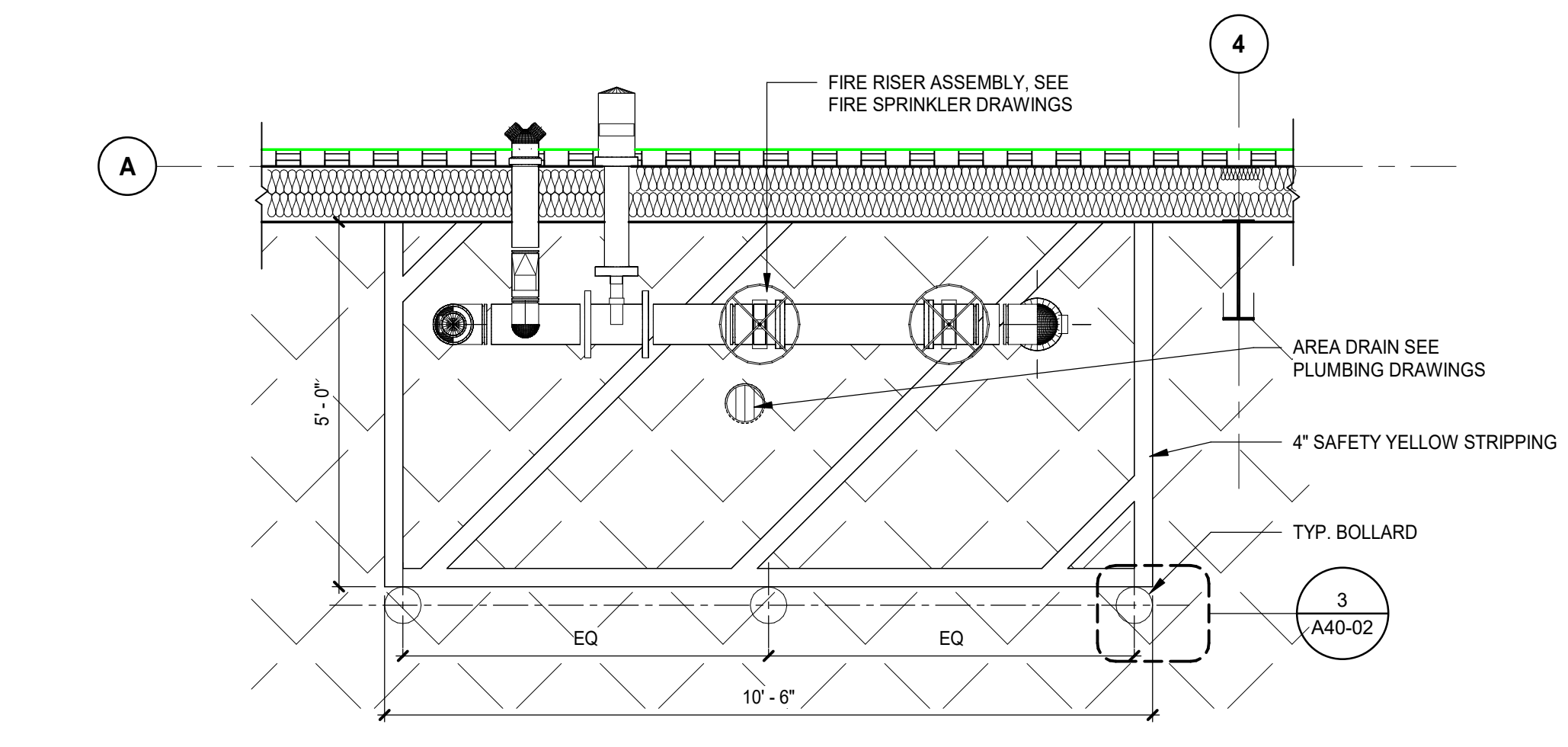


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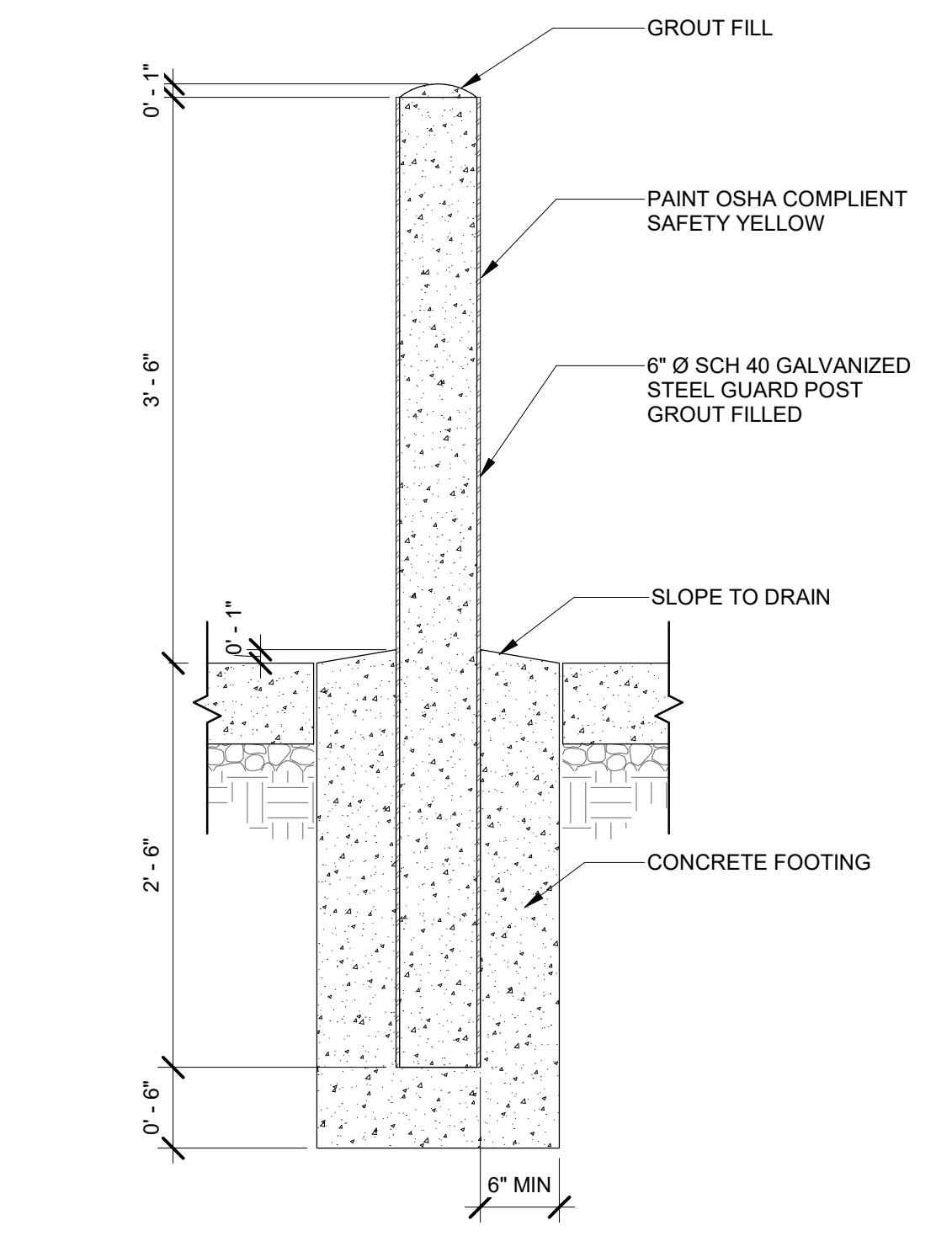
Project Manager: Drawn
 Project Leader: Author
 Client: MAMMOTH YOSEMITE AIRPORT

Project: MAMMOTH SRE BLUIDING
 MAMMOTH, CALIFORNIA
 Drawing Title: FLOOR PLANS

Scale: 1/8" = 1'-0"
 Project No.: IN2024-0022
 Drawing No.: A20-01
 ARCH E Title Block - v 2023 - Rev (July23) - Copyright © 2023



1 FIRE RISER PLAN
 SCALE: 1/2" = 1'-0"



3 BOLLARD DETAIL
 SCALE: 1" = 1'-0"

DATE	ISSUED FOR	REV
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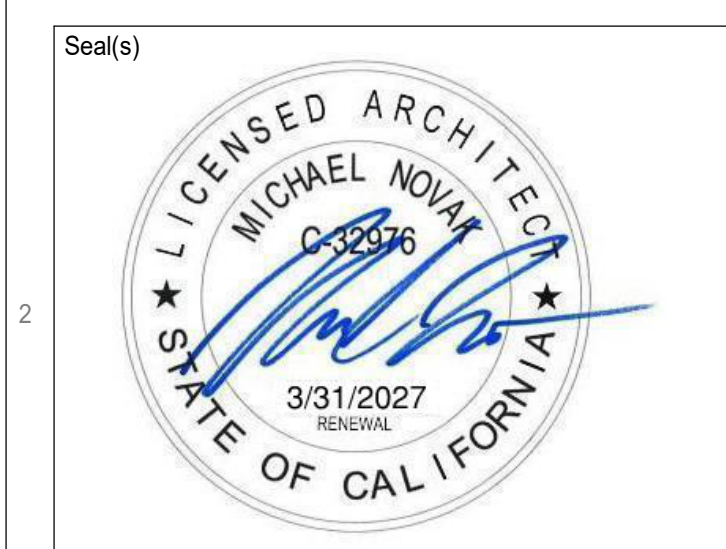
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Project Component

Key Plan

- Consultants
- Survey: Brandley Engineering
 - Civil: Kimley-Horn
 - Architecture: NORR
 - Structural: Bevier Structural Eng
 - Mechanical: NORR
 - Electrical: NORR
 - Interiors: NORR
 - Fire Sprinkler: Sacramento Engineering Consultants



NORR

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Project Manager	Drawn
	JON PRICE
Project Leader	Checked
	MIKE NOVAK

Client
MAMMOTH YOSEMITE AIRPORT

Project
MAMMOTH SRE BLUIDING

MAMMOTH, CALIFORNIA
 Drawing Title
ENLARGED FLOOR PLANS

Scale
 As indicated

Project No.
 IN2024-0022

Drawing No.
A40-02

DATE	ISSUED FOR	REV

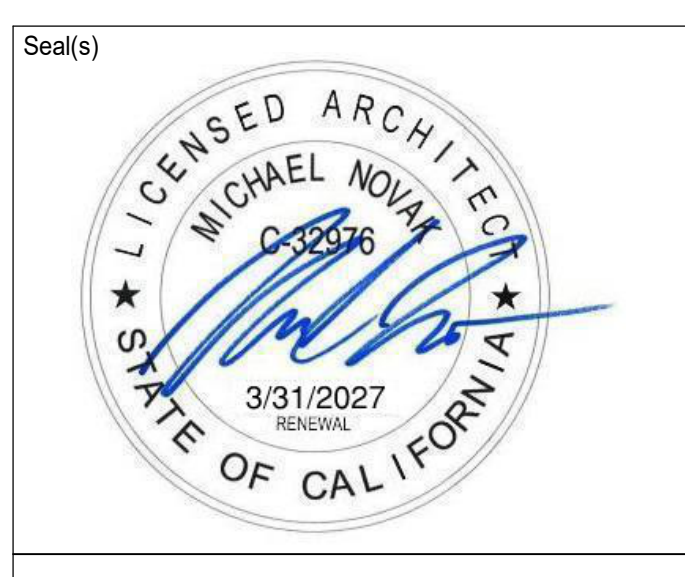
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 Survey: Brandley Engineering
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 Electrical: NORR
 Interiors: NORR
 Fire Sprinkler: Sacramento Engineering Consultants



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Project Manager	Drawn
Project Leader	Author
	Checked
	Checker

Client
MAMMOTH YOSEMITE AIRPORT

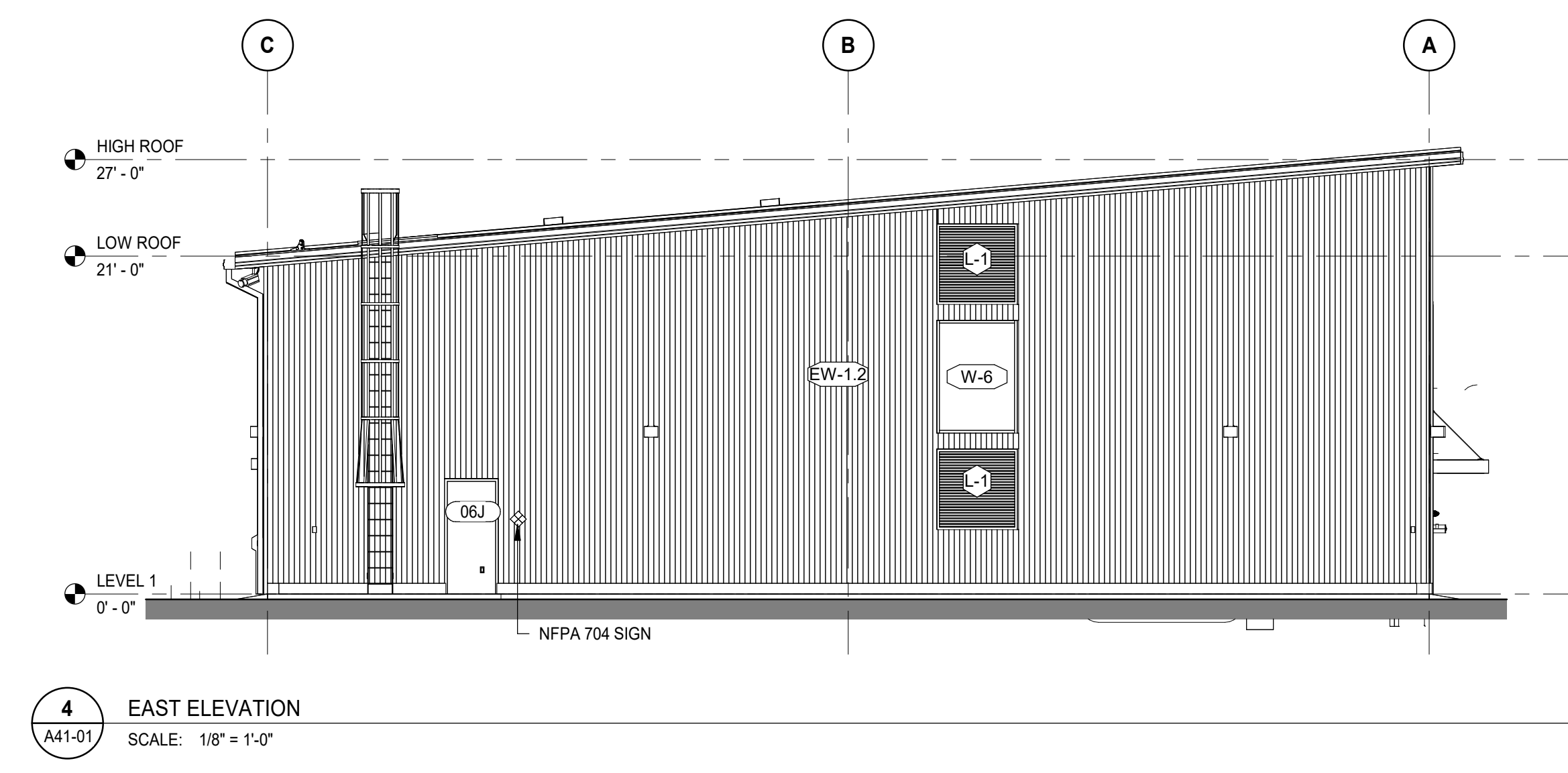
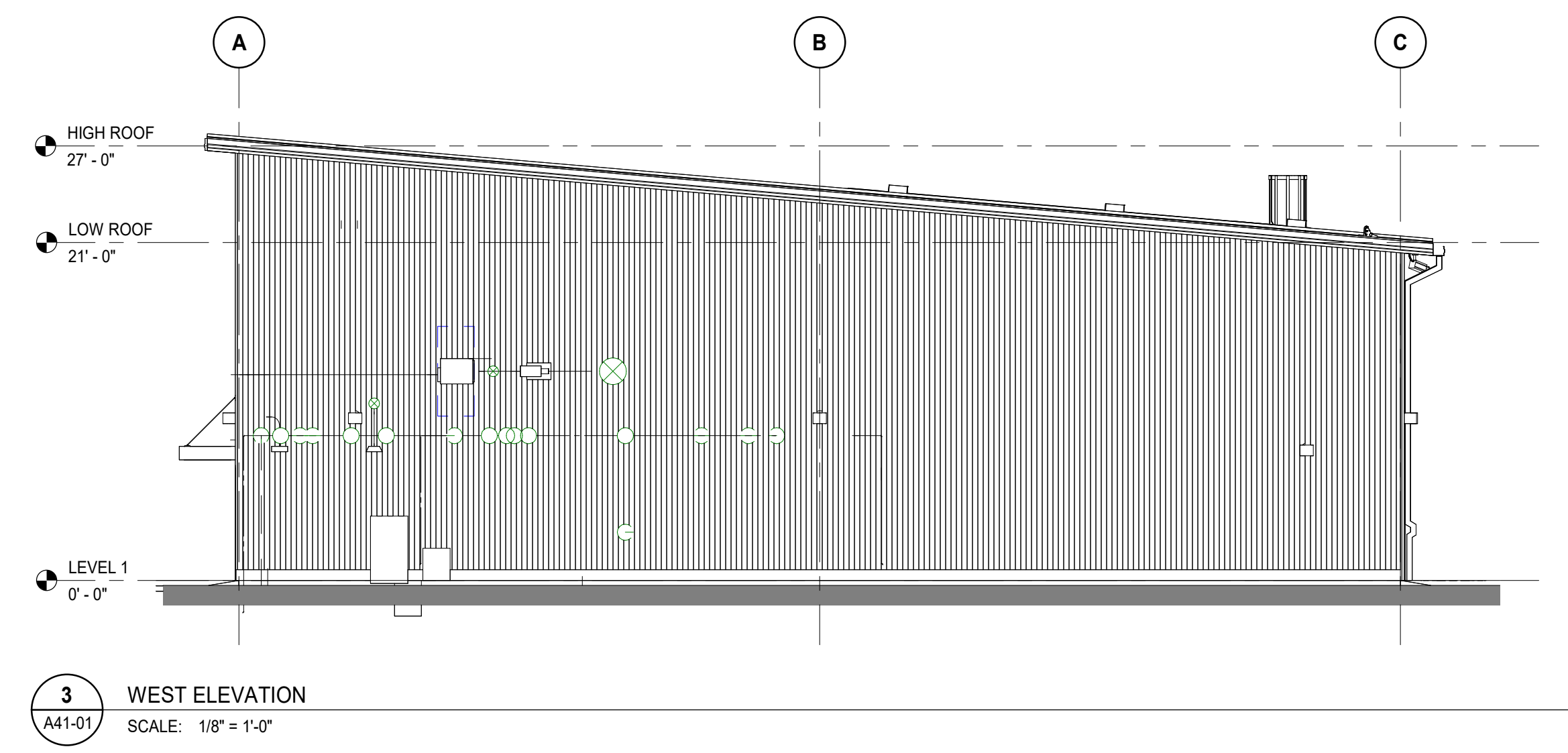
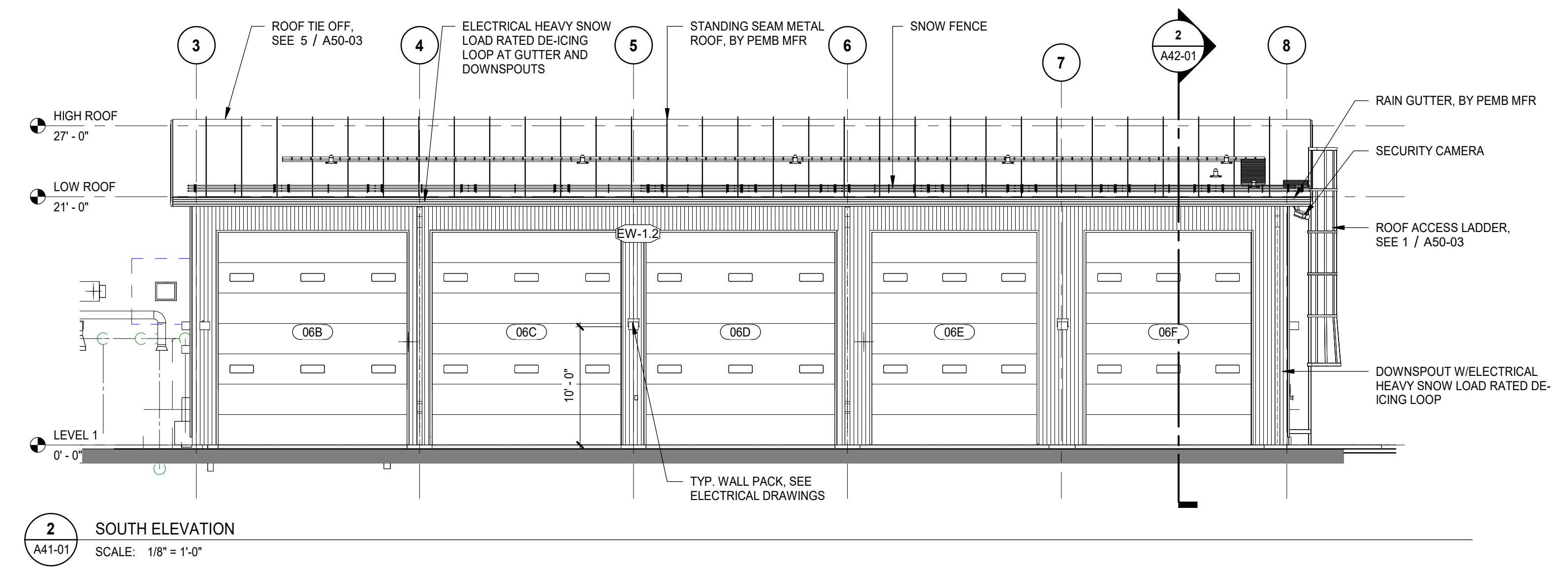
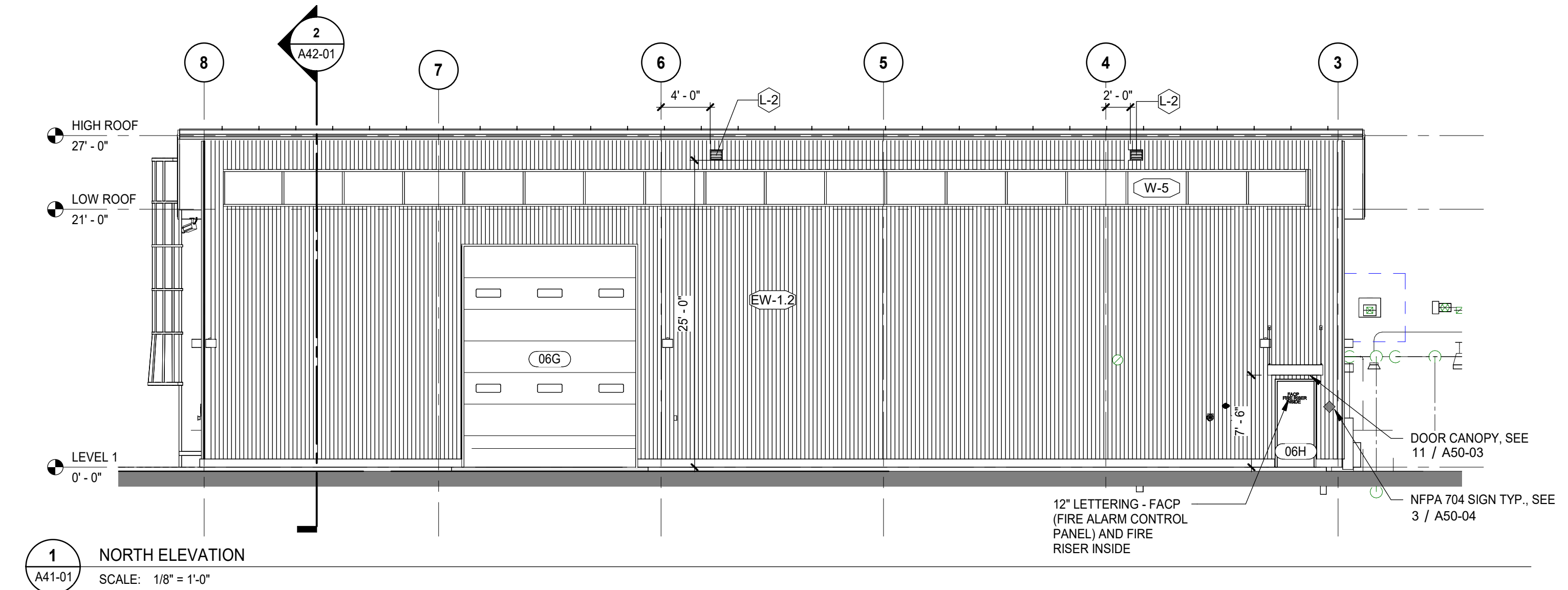
Project
MAMMOTH SRE BLUIDING

MAMMOTH, CALIFORNIA
 Drawing Title
OVERALL BUILDING ELEVATIONS

Scale
 1/8" = 1'-0"

Project No.
 IN2024-0022

Drawing No.
A41-01



4

3

2

1

2

1

1

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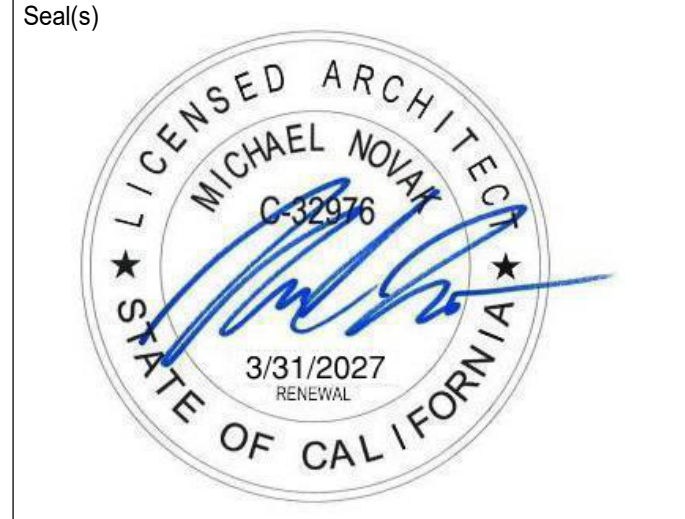
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- Mechanical: NORR
- Electrical: NORR
- Interiors: NORR
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NORR

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Sacramento, CA, US 95811
norr.com

Project Manager	Drawn
	JON PRICE
Project Leader	Checked
	MIKE NOVAK

Client
MAMMOTH YOSEMITE AIRPORT

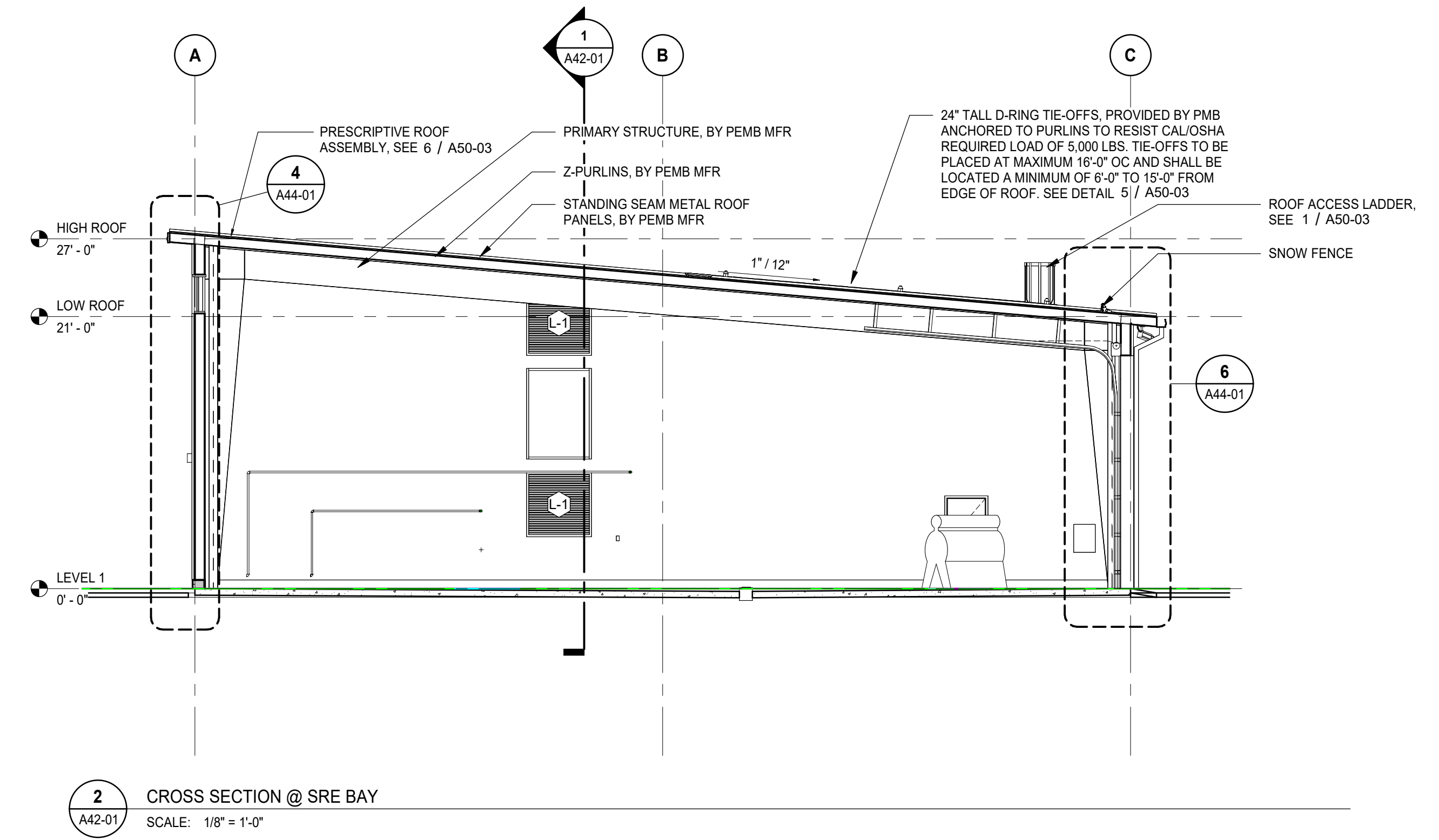
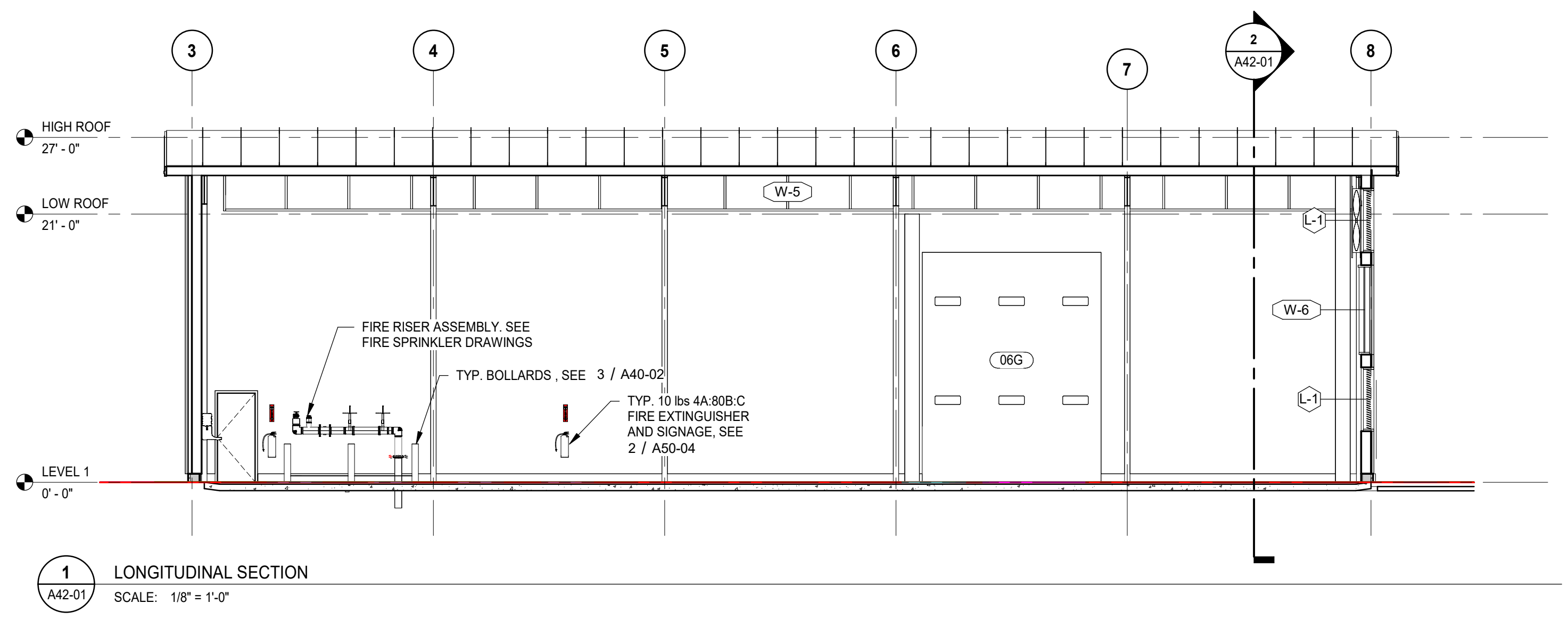
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MAMMOTH SRE BLUIDING

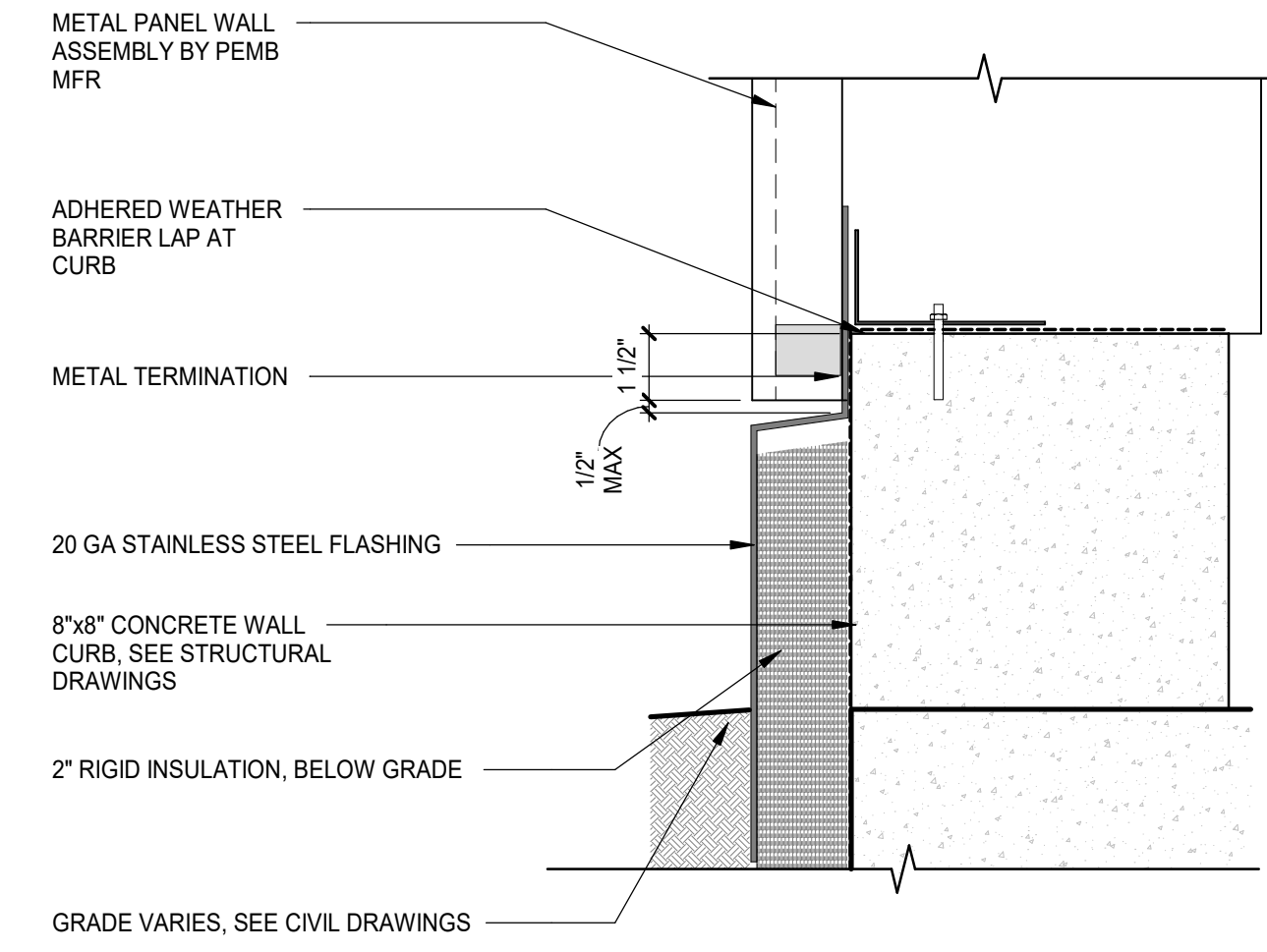
MAMMOTH, CALIFORNIA
Drawing Title
OVERALL BUILDING SECTIONS

Scale
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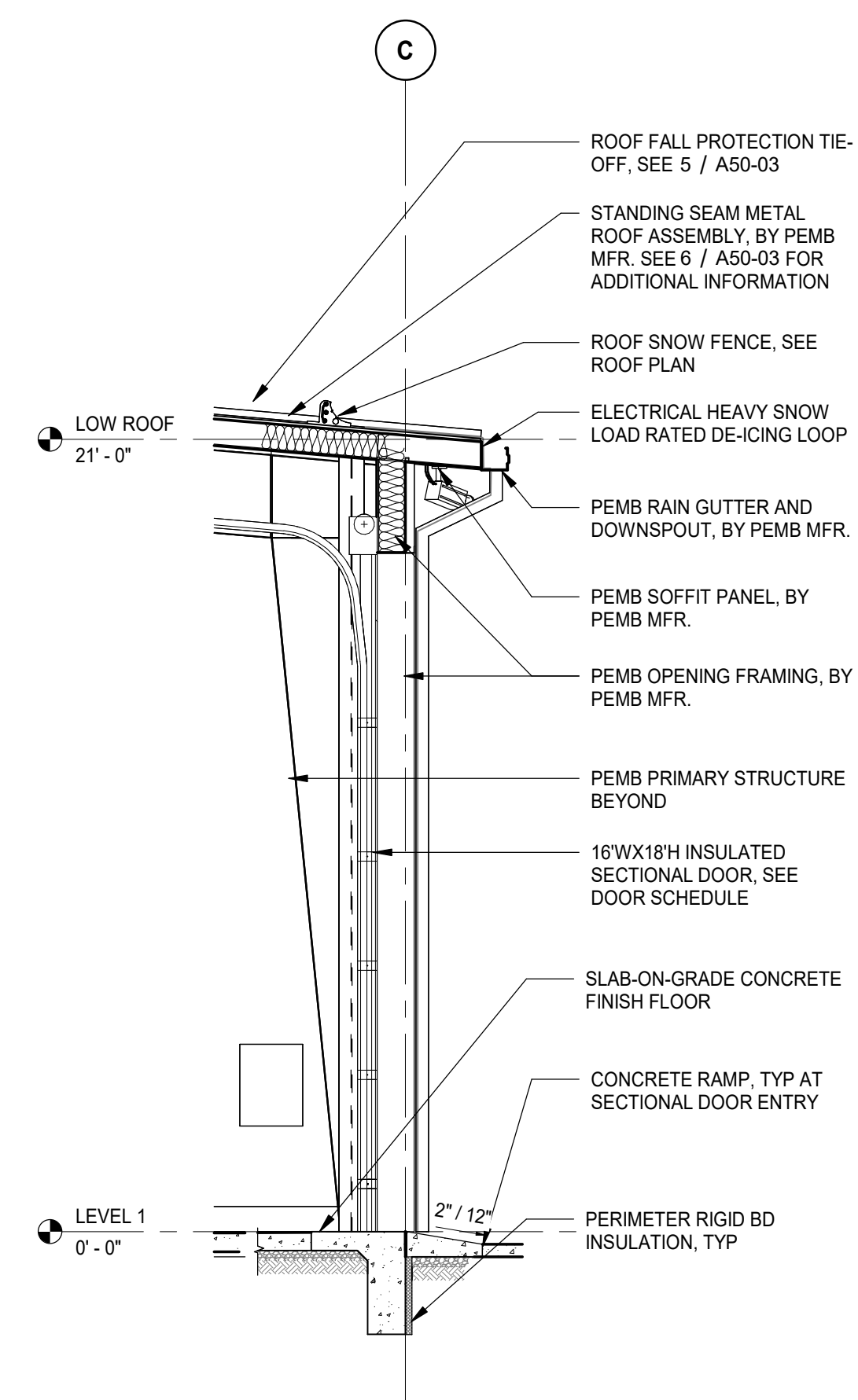
Project No.
IN2024-0022

Drawing No.
A42-01

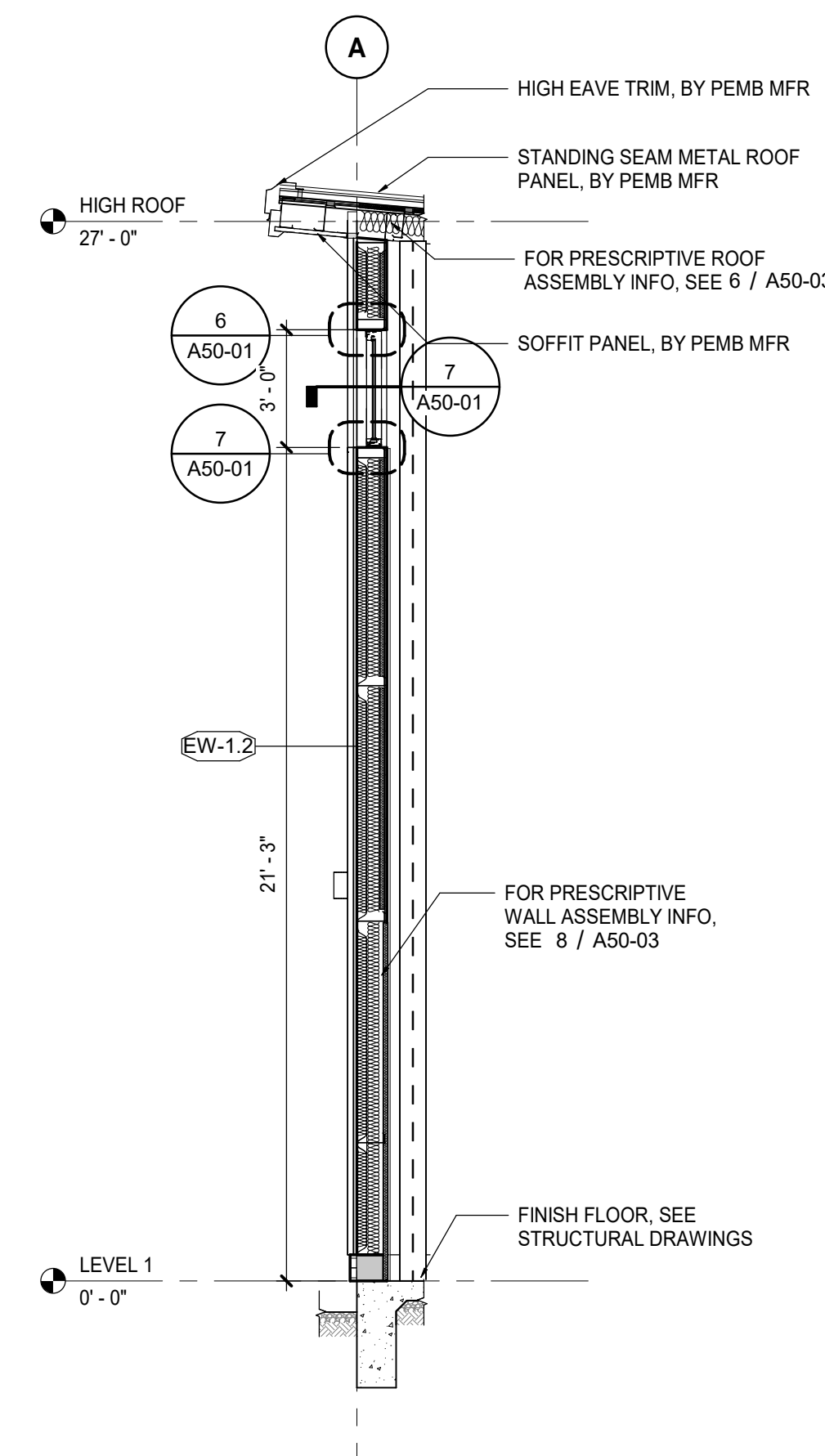




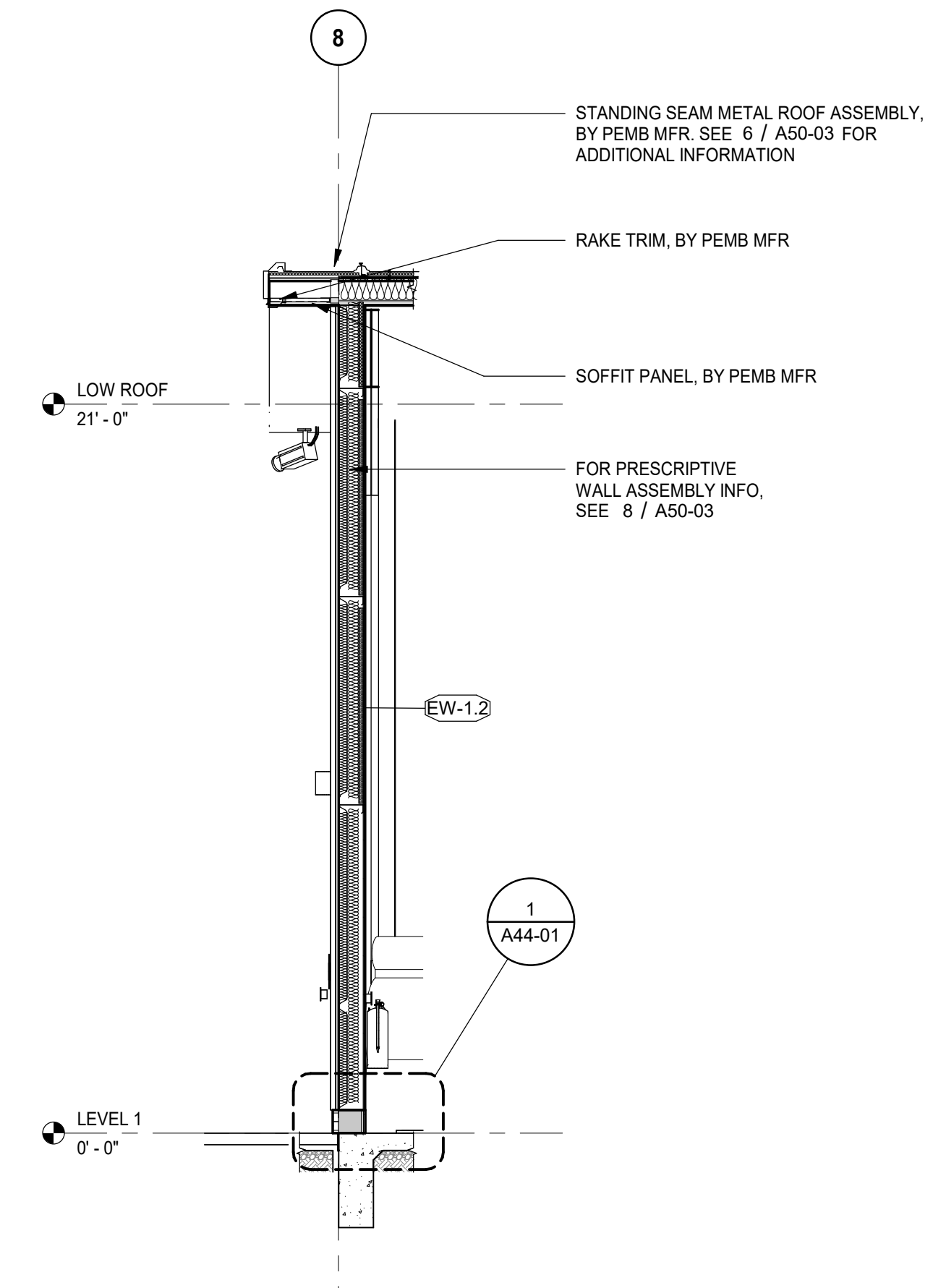
1
A44-01 BASE FLASHING AT CONCRETE CURB
SCALE: 3" = 1'-0"



6
A44-01 TYP WALL SECTION @ GRID C - SECTIONAL DOOR
SCALE: 1/4" = 1'-0"



4
A44-01 TYP WALL SECTION @ GRID A - SRE BAY
SCALE: 1/4" = 1'-0"



2
A44-01 TYP WALL SECTION @ GRID B - SRE BAY
SCALE: 1/4" = 1'-0"

DATE	ISSUED FOR	REV
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Key Plan

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 Interiors: NORR
 Fire Sprinkler: Sacramento Engineering Consultants



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Project Manager	Drawn
Project Leader	Author
	Checked
	Checker

Client
MAMMOTH YOSEMITE AIRPORT

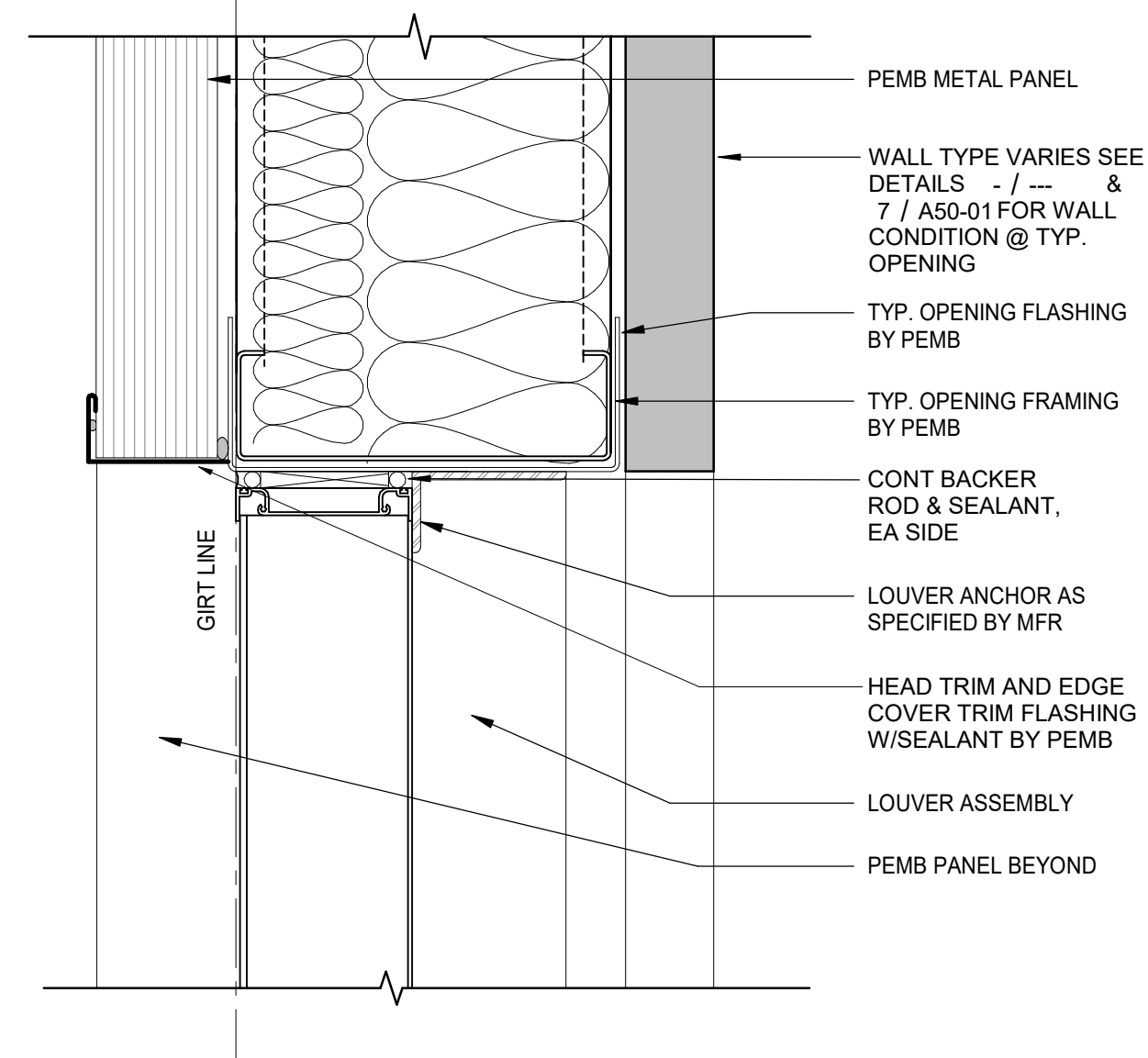
Project
MAMMOTH SRE BLUIDING

MAMMOTH, CALIFORNIA
 Drawing Title
WALL SECTIONS

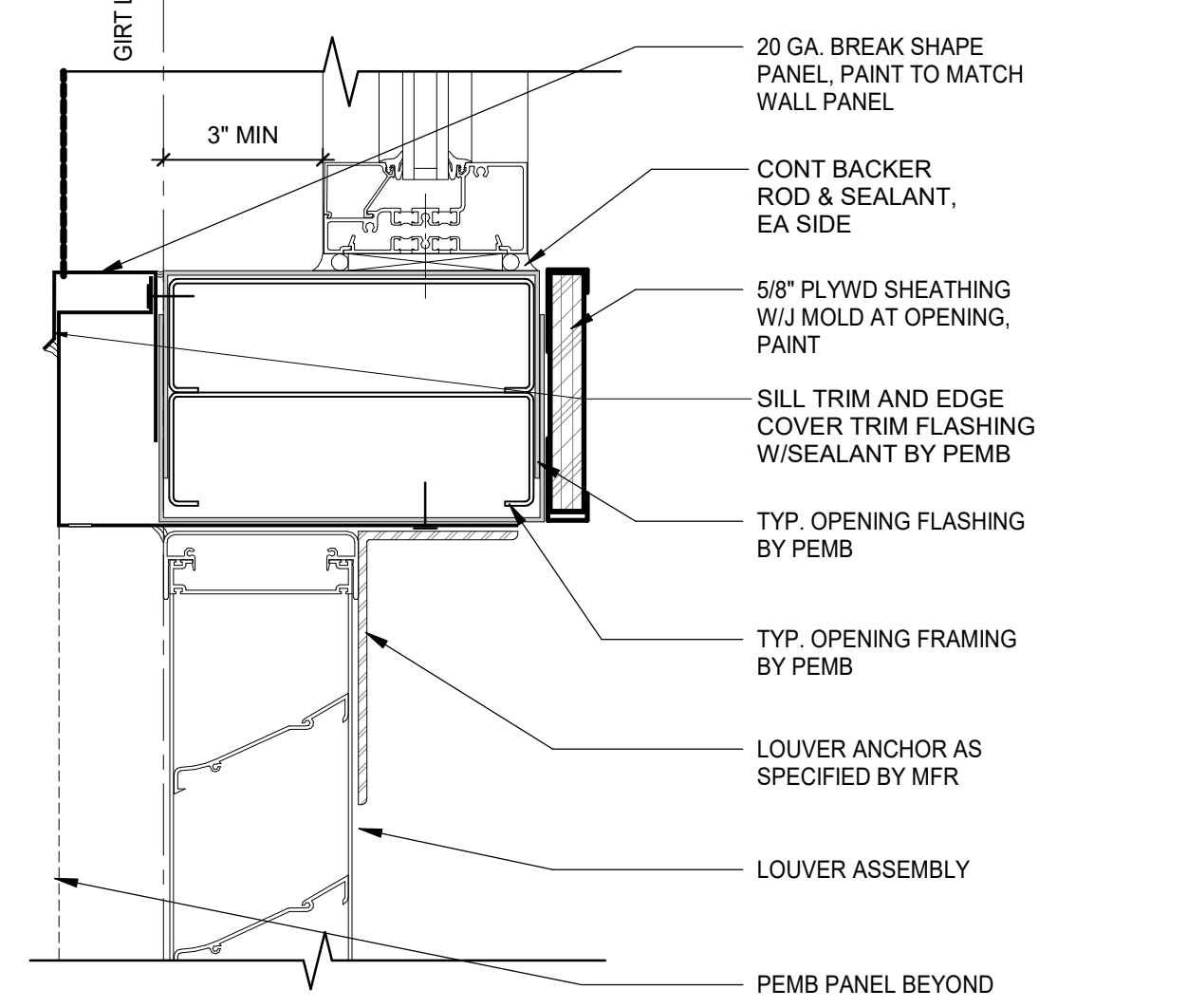
Scale
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Project No.
 IN2024-0022

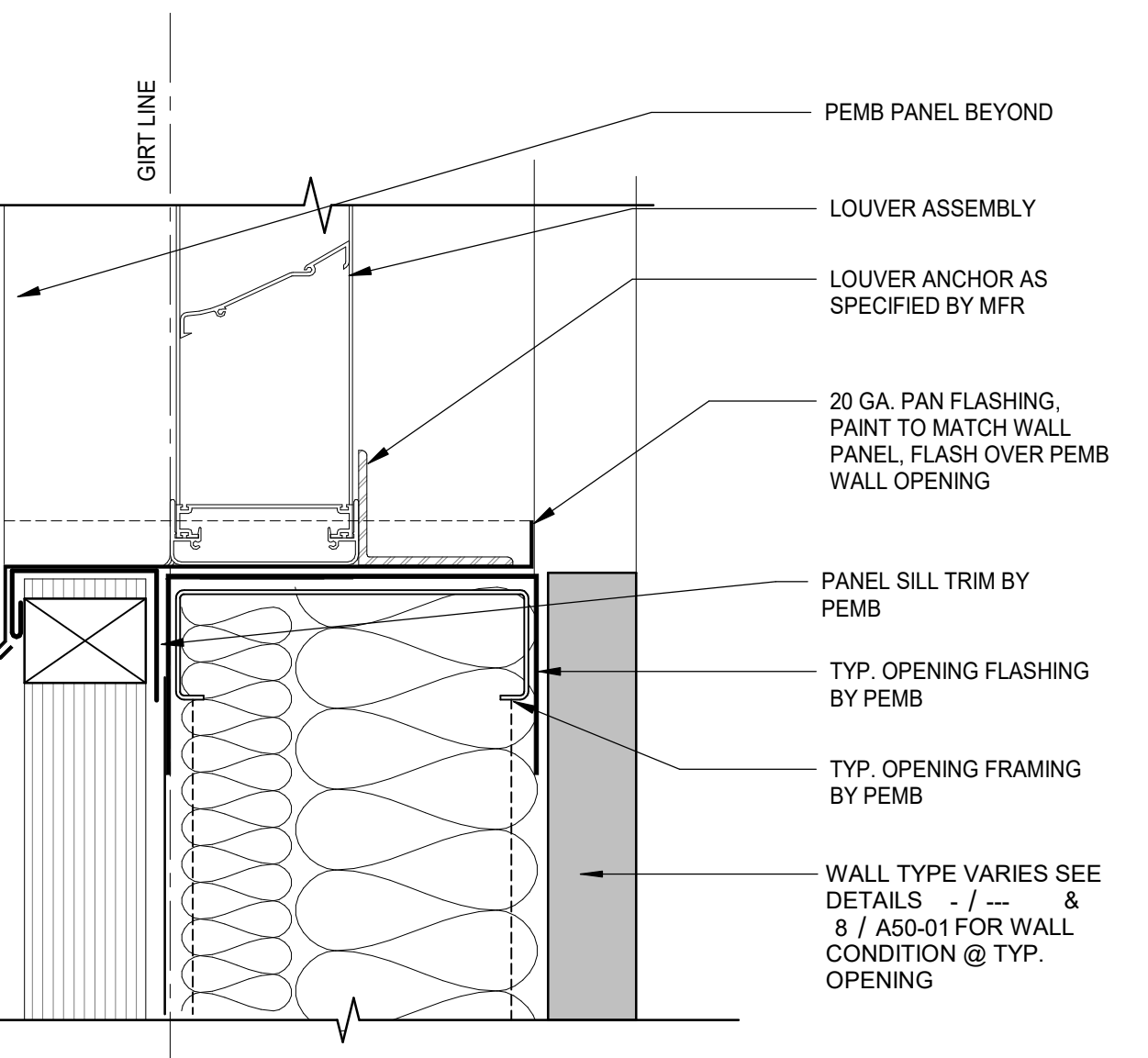
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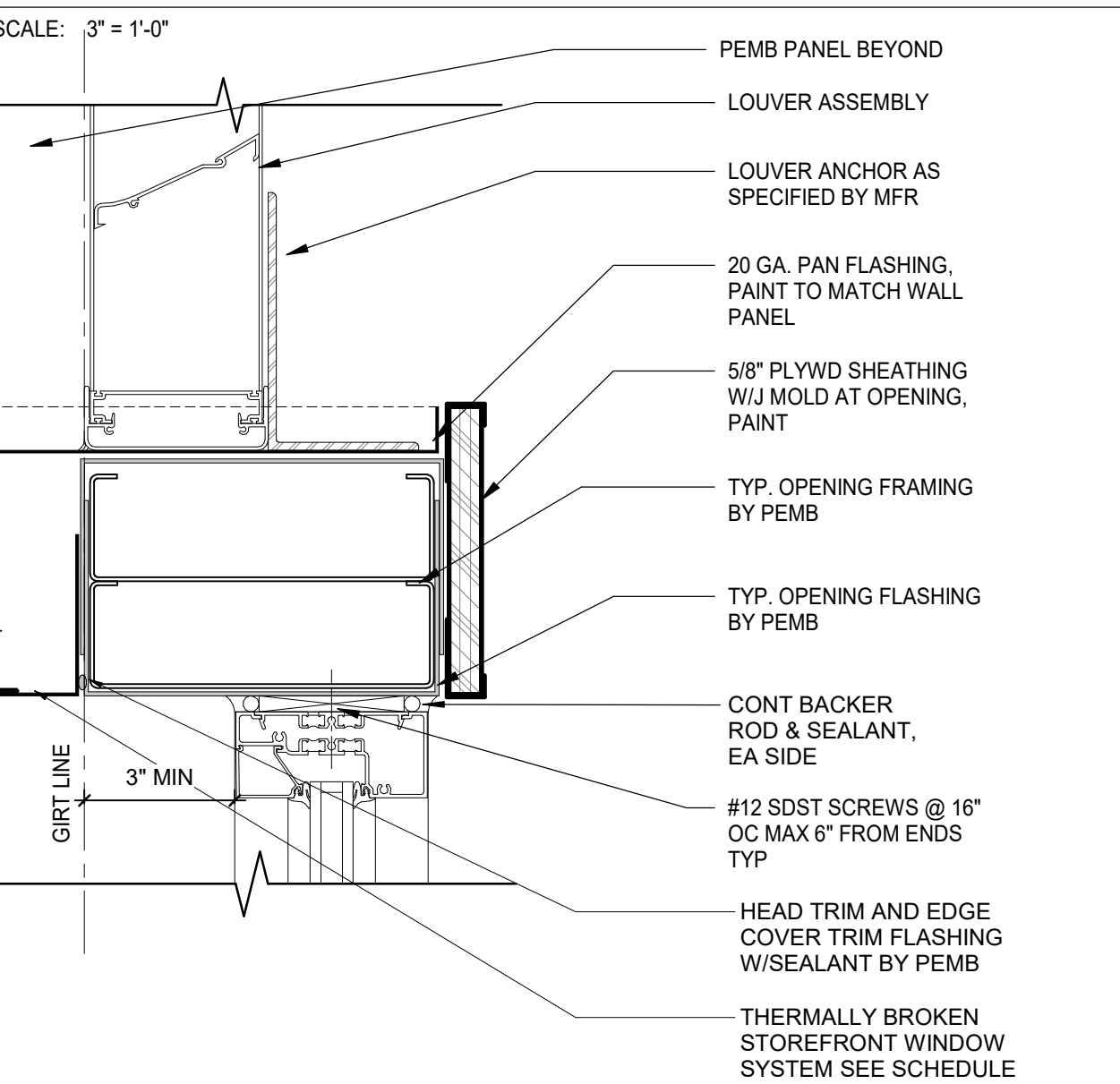
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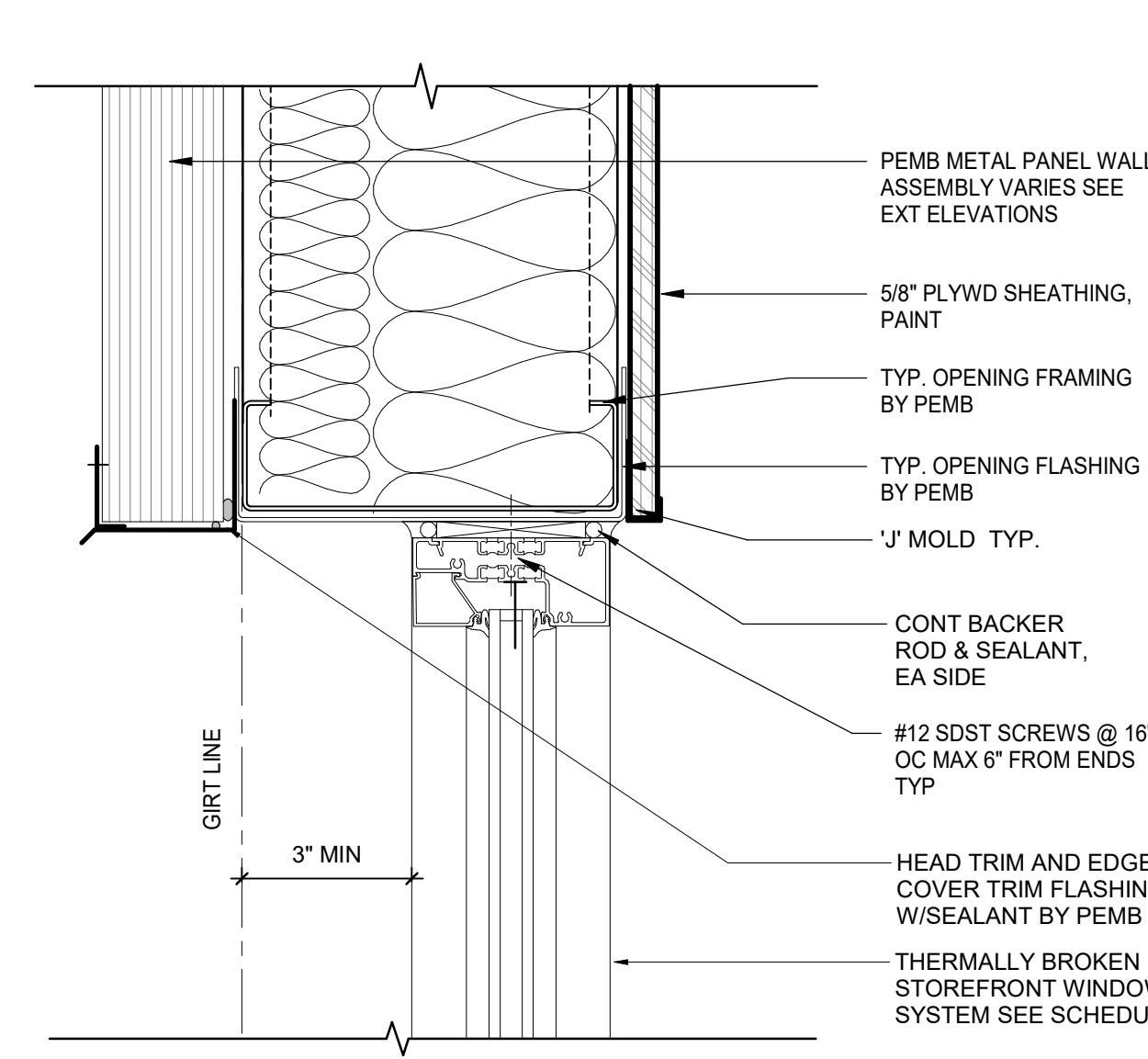
11 LOUVER HEAD - WINDOW SILL
SCALE: 3" = 1'-0"



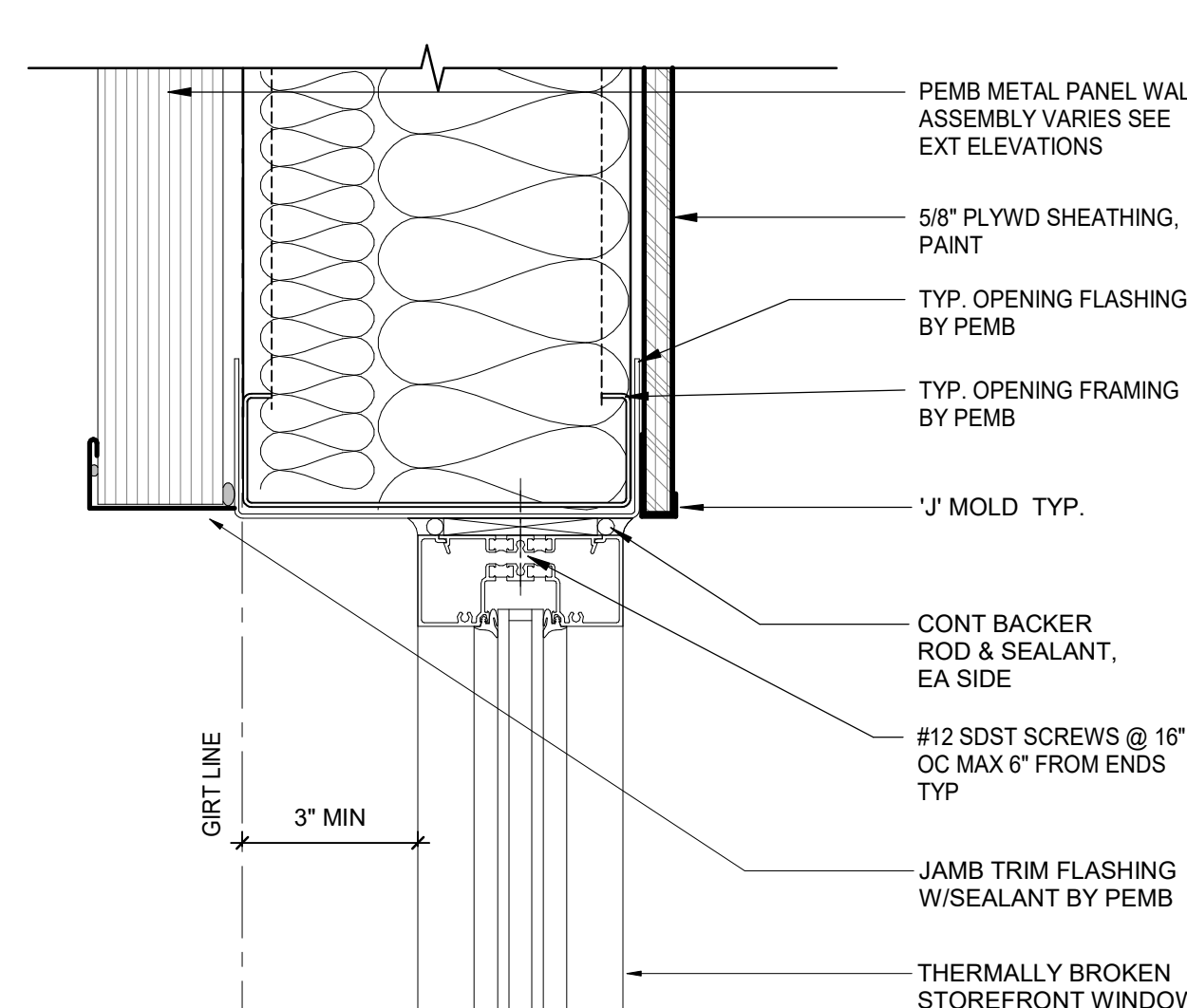
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SCALE: 3" = 1'-0"



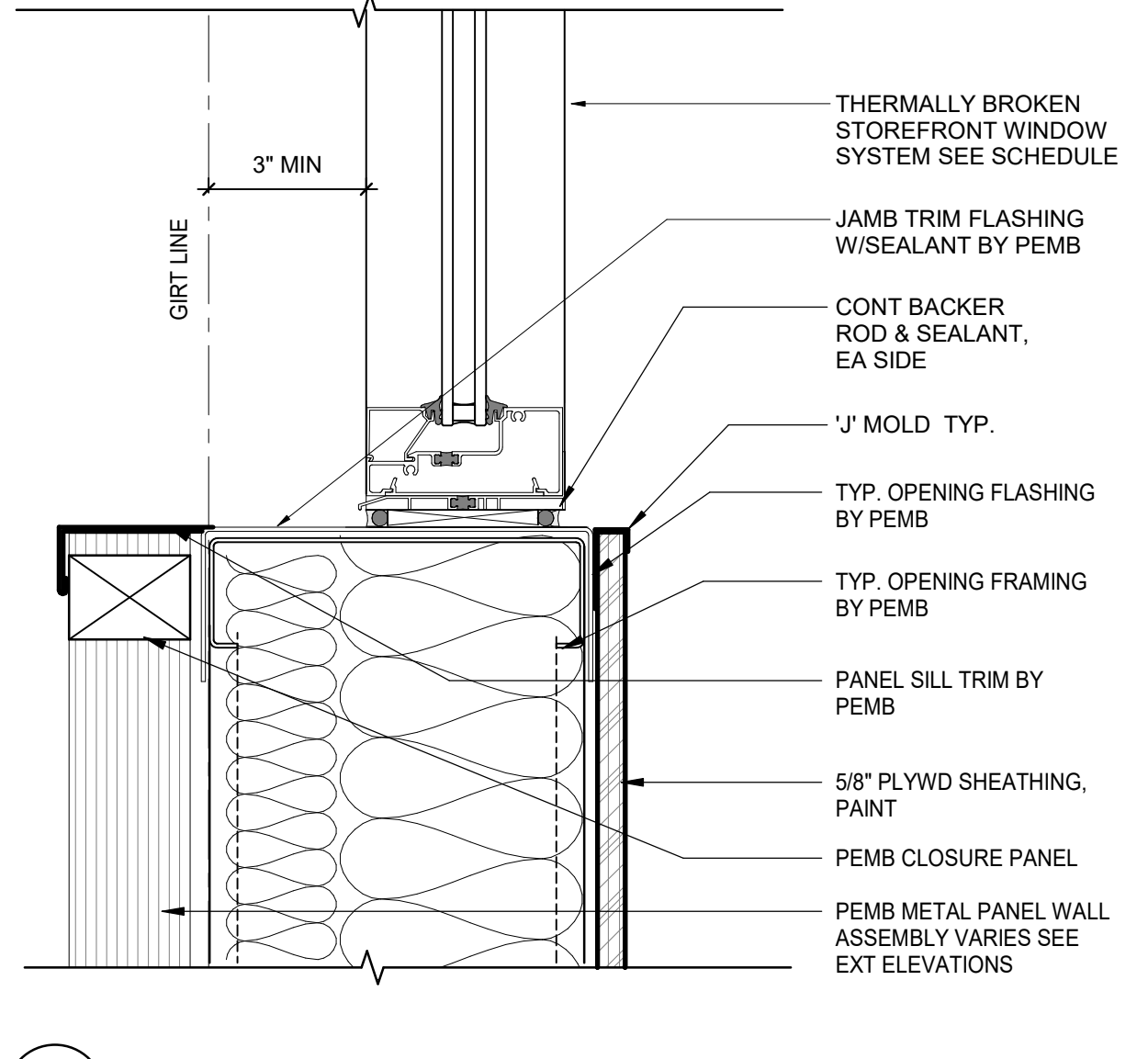
13 LOUVER SILL - WINDOW HEAD
SCALE: 3" = 1'-0"



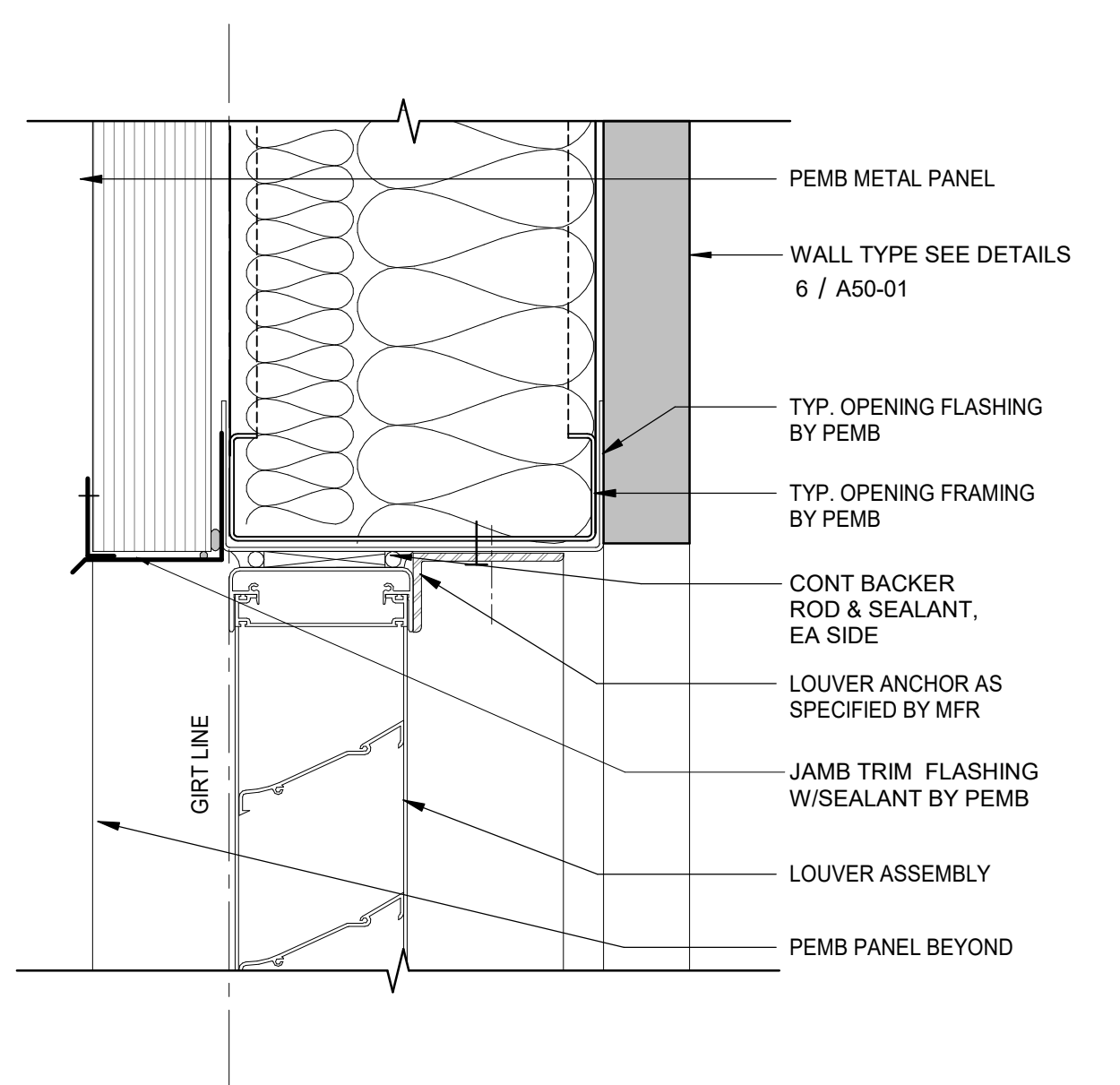
6 WINDOW HEAD @ PLYWD SHEATHING
SCALE: 3" = 1'-0"



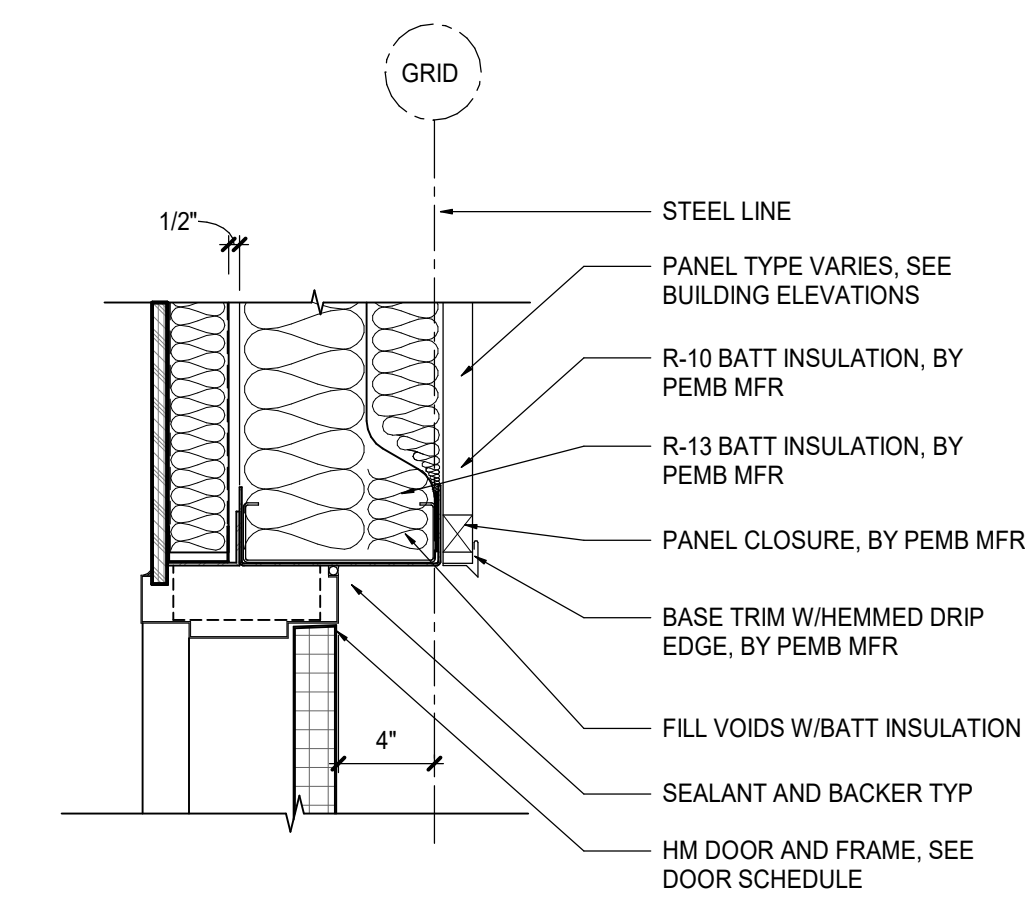
7 WINDOW JAMB @ PLYWD SHEATHING
SCALE: 3" = 1'-0"



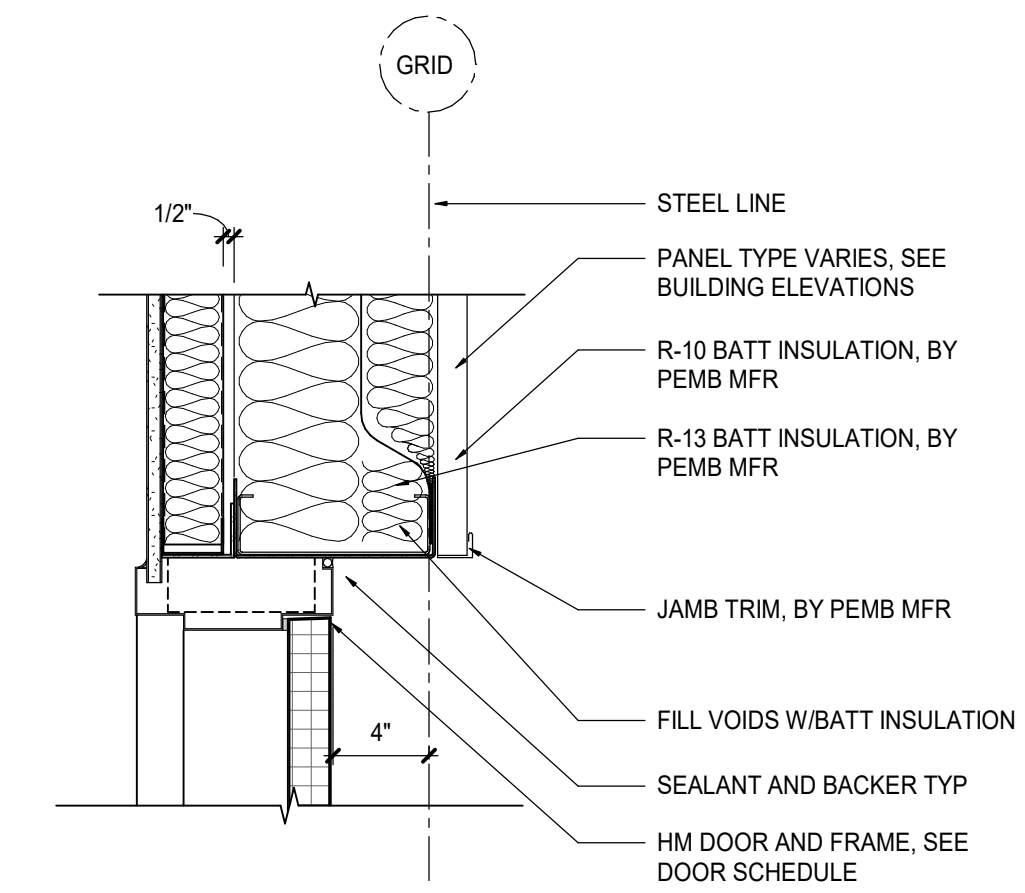
8 WINDOW SILL @ PEMB /PLYWD SHEATHING
SCALE: 3" = 1'-0"



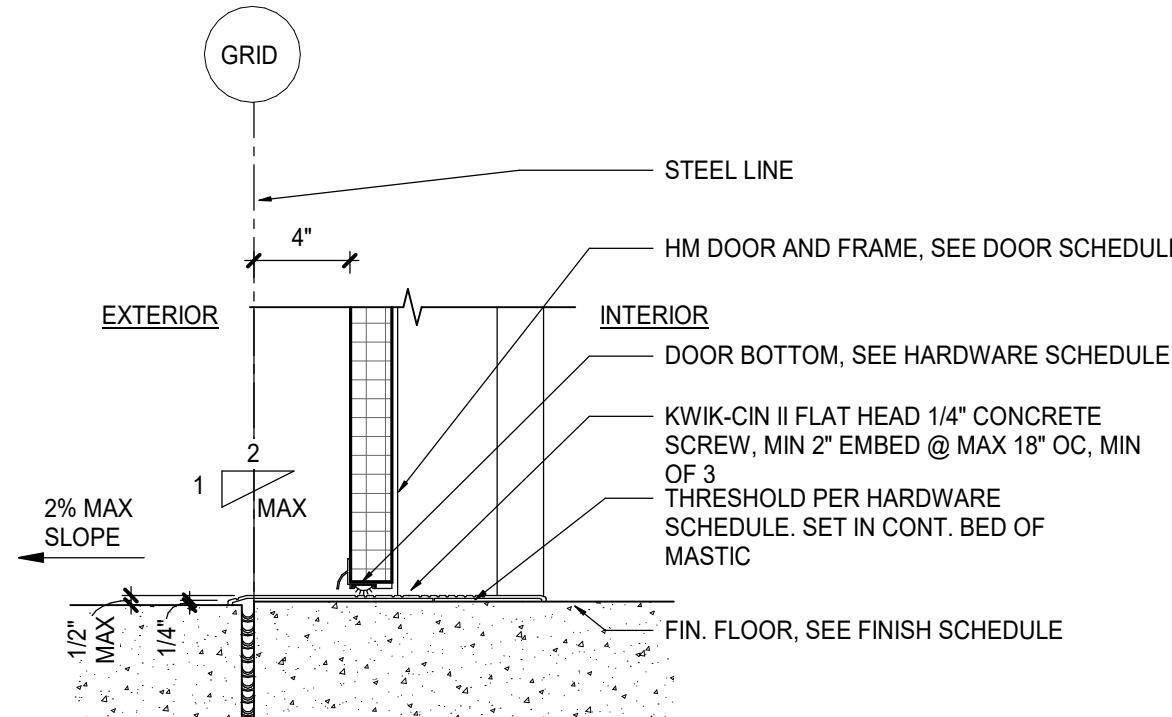
9 LOUVER HEAD
SCALE: 3" = 1'-0"



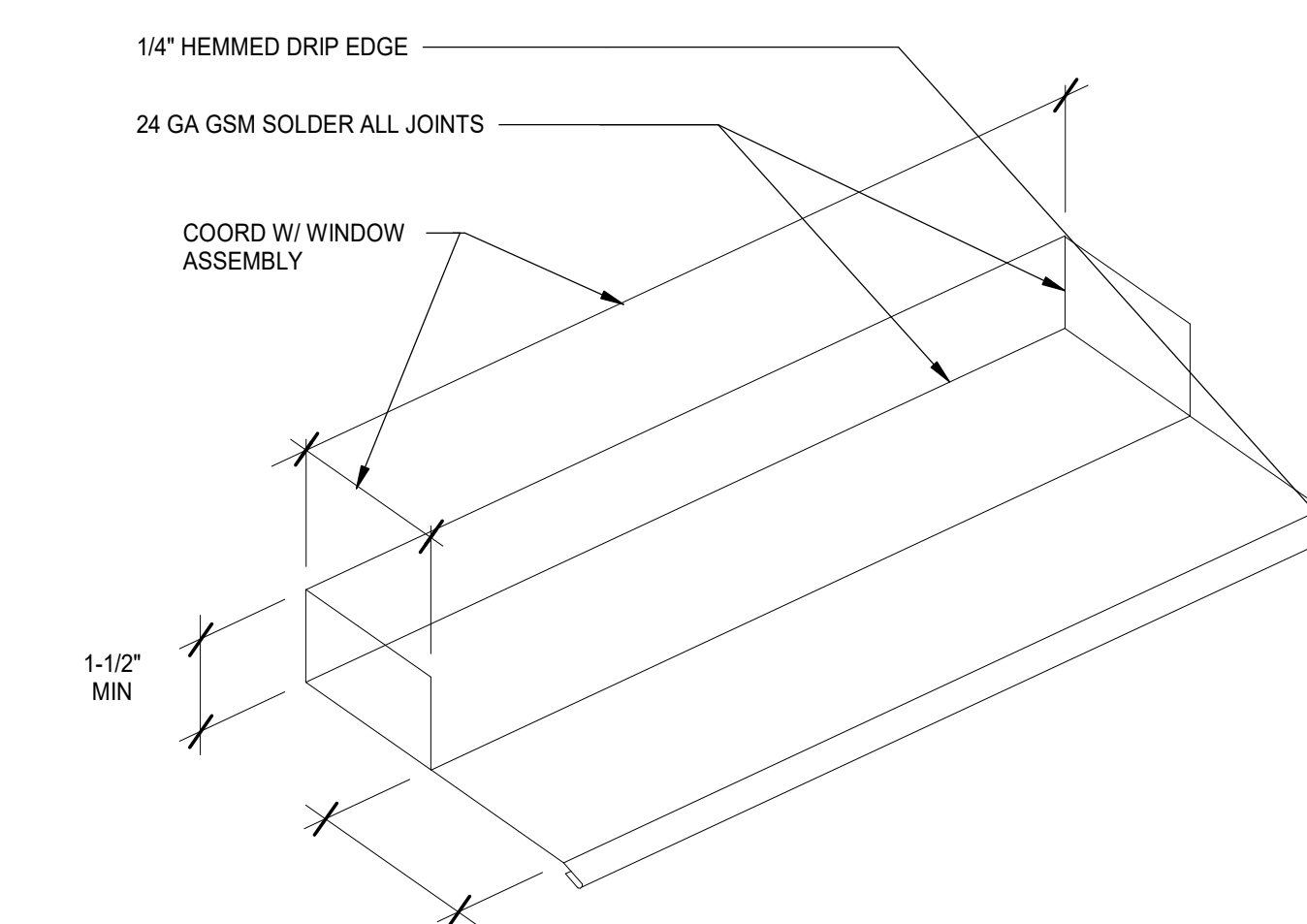
1 EXTERIOR DOOR HEAD
SCALE: 1 1/2" = 1'-0"



2 EXTERIOR DOOR JAMB
SCALE: 1 1/2" = 1'-0"



3 EXTERIOR DOOR THRESHOLD
SCALE: 1 1/2" = 1'-0"



5 SILL PAN
SCALE: 6" = 1'-0"

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Project Component

Key Plan

Consultants

Survey:	Brandley Engineering
Civil:	Kimley-Horn
Architecture:	NORR
Structural:	Bever Structural Eng
Mechanical:	NORR
Electrical:	NORR
Interiors:	NORR
Fire Sprinkler:	Sacramento Engineering Consultants

Seal(s)



NORR

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Sacramento, CA, US 95811
norr.com

Project Manager	Drawn
Project Leader	Checked
	MIKE NOVAK

Client
MAMMOTH YOSEMITE AIRPORT

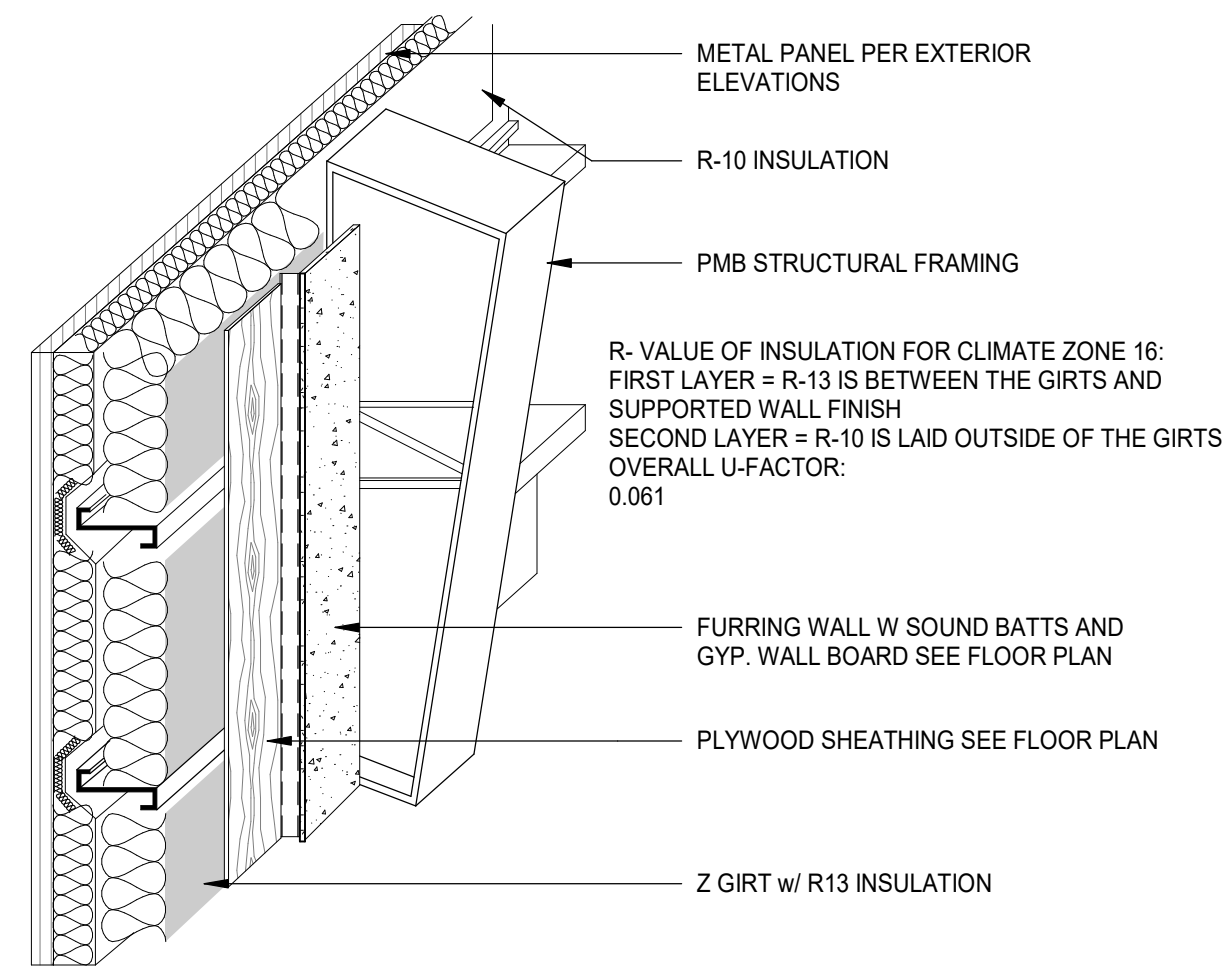
Project
MAMMOTH SRE BLUIDING

MAMMOTH, CALIFORNIA
Drawing Title
DOOR AND WINDOW DETAILS

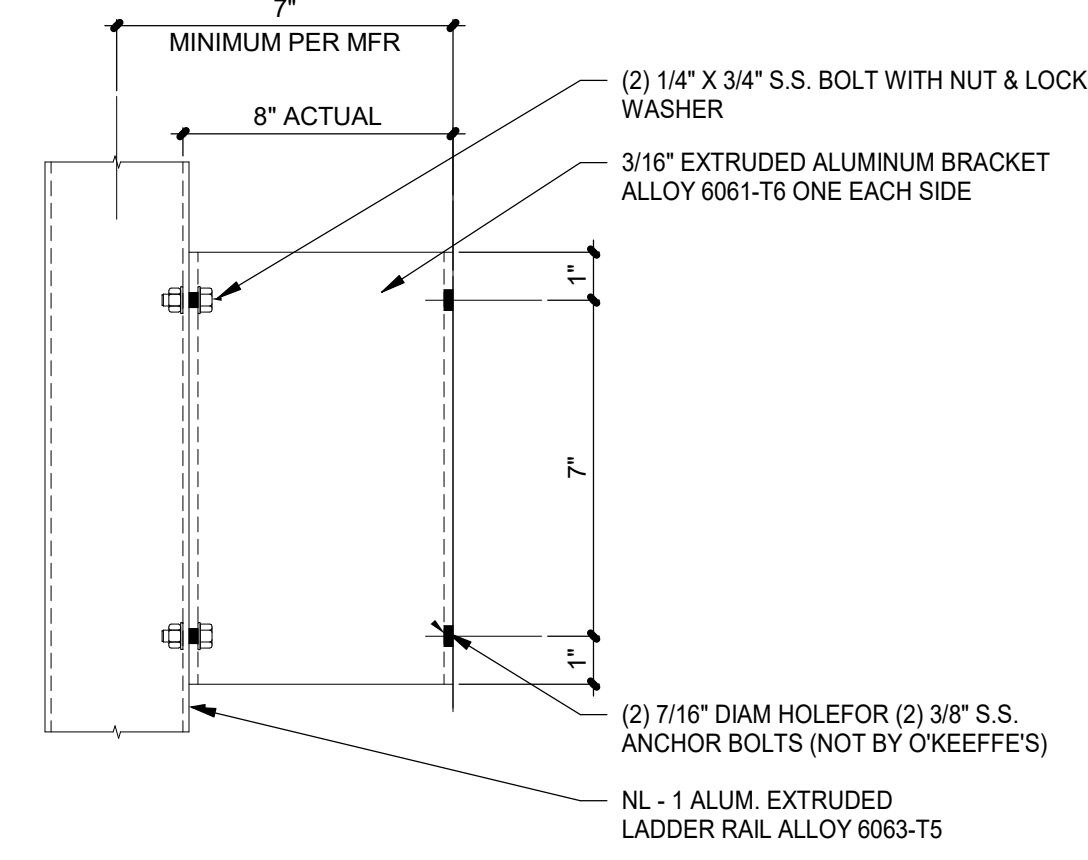
Scale
As indicated

Project No.
IN2024-0022

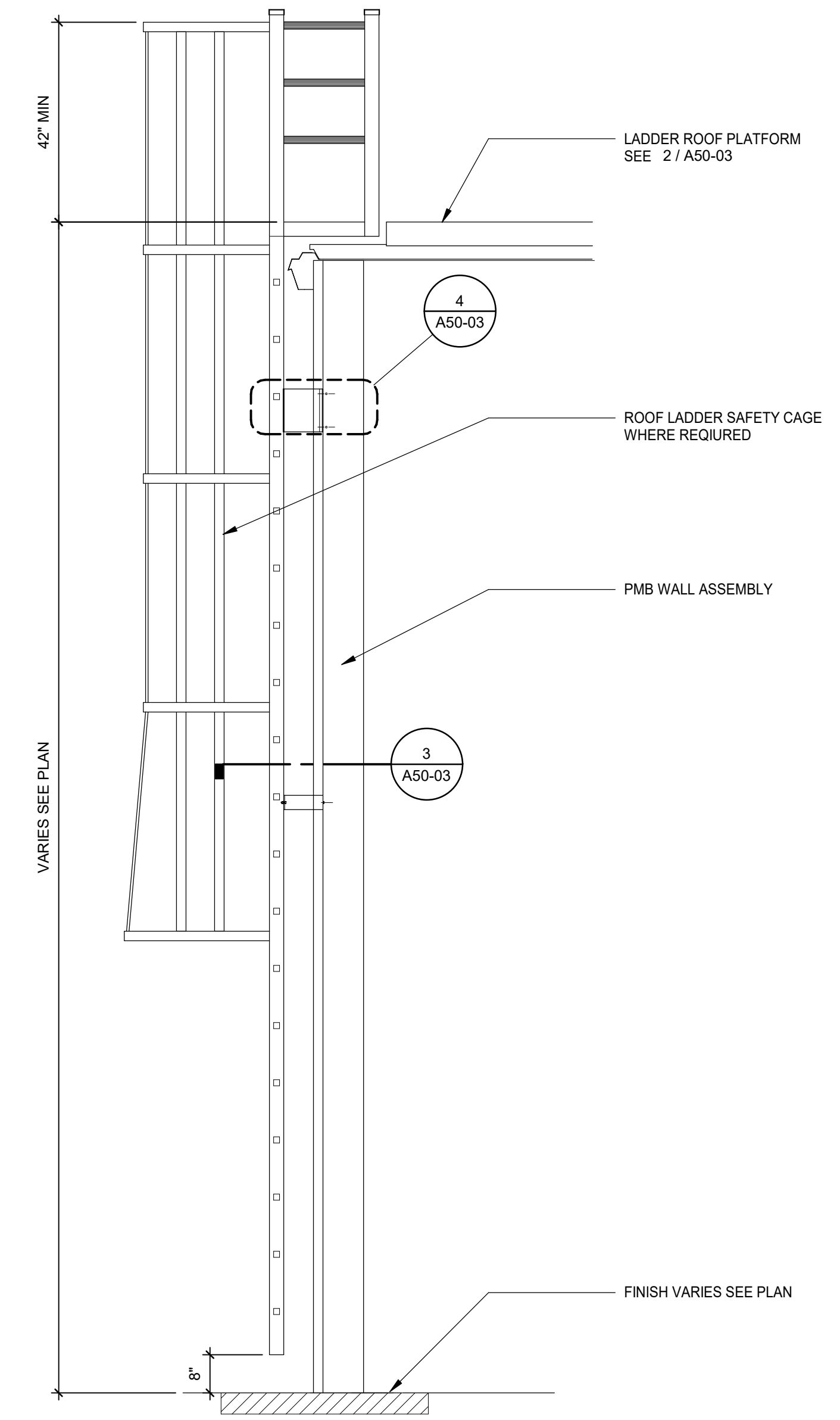
Drawing No.
A50-01



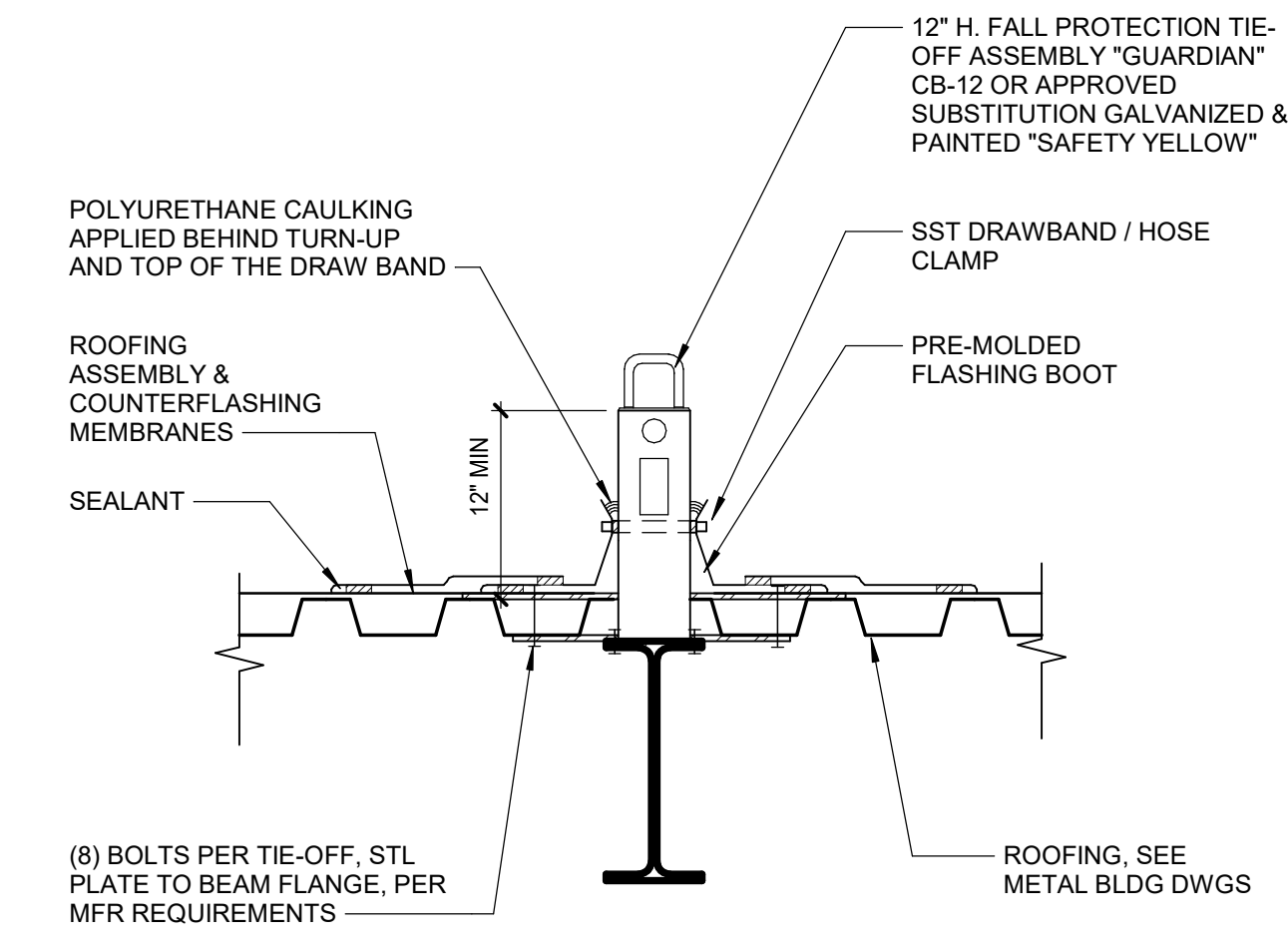
8 EXTERIOR WALL PRESCRIPTIVE REQUIREMENTS
SCALE: 1/2" = 1'-0"



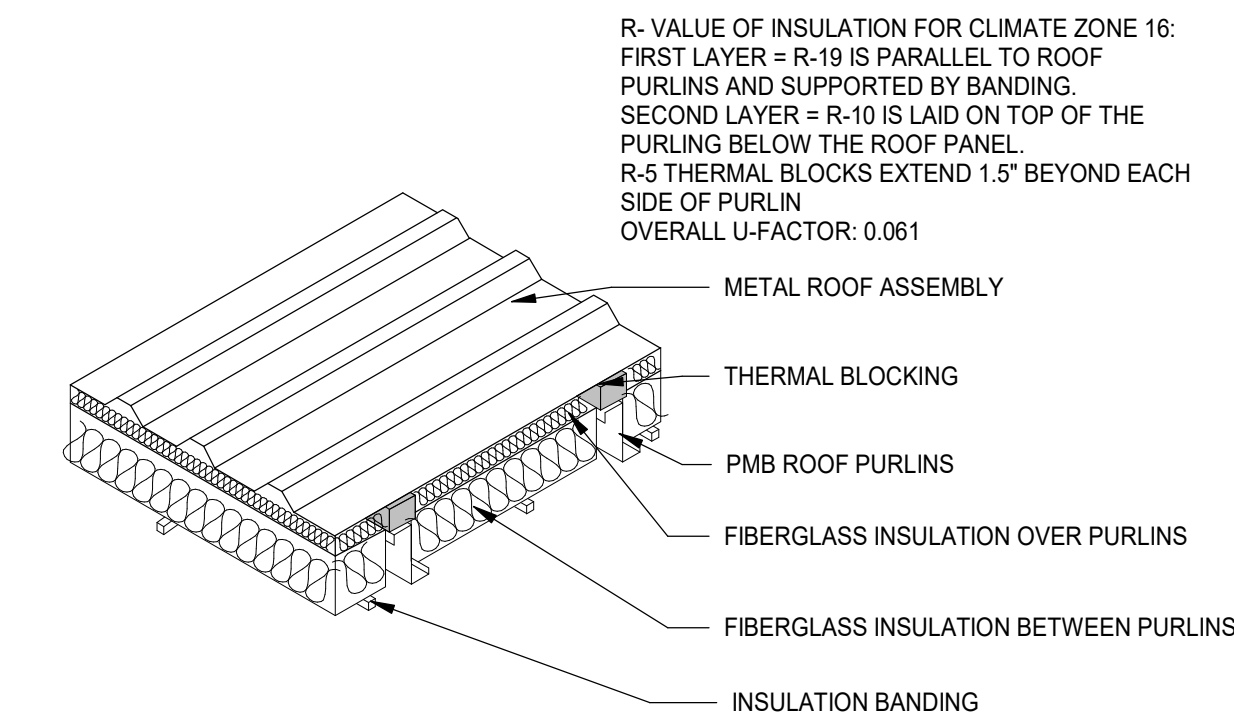
4 LADDER BRACKET SIDE VIEW
SCALE: 3" = 1'-0"



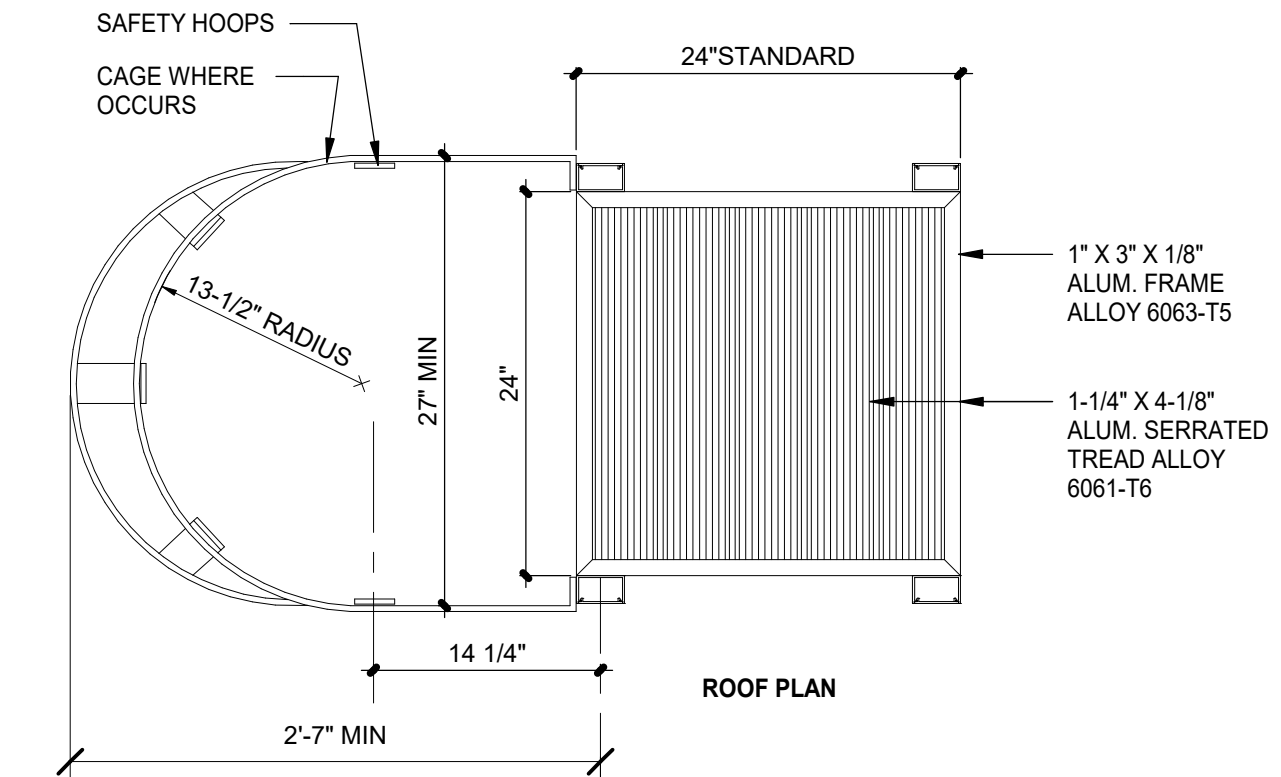
1 LADDER SIDE ELEVATION
SCALE: 1/2" = 1'-0"



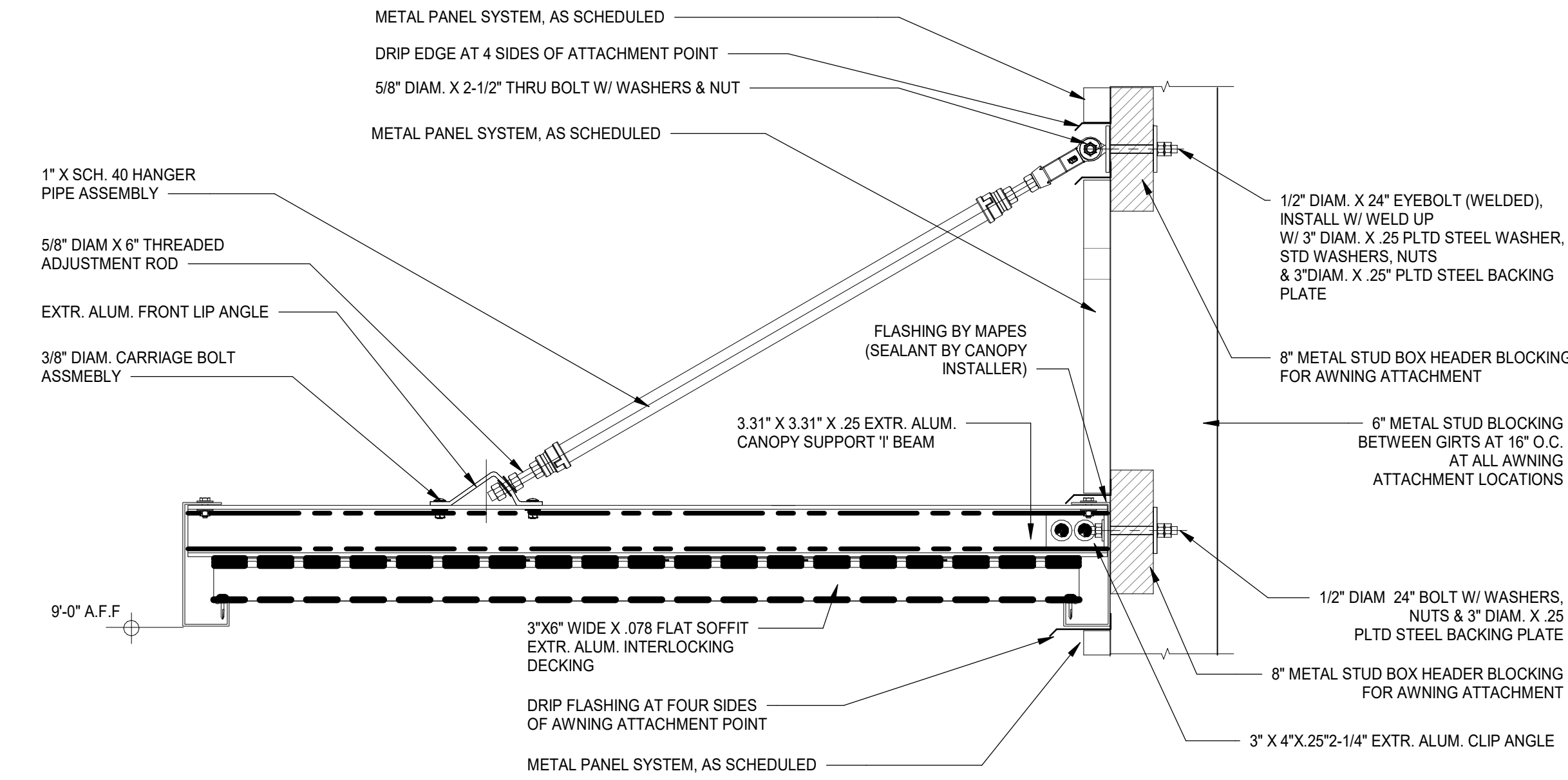
5 FALL PROTECTION TIE OFF ASSEMBLY
SCALE: 1 1/2" = 1'-0"



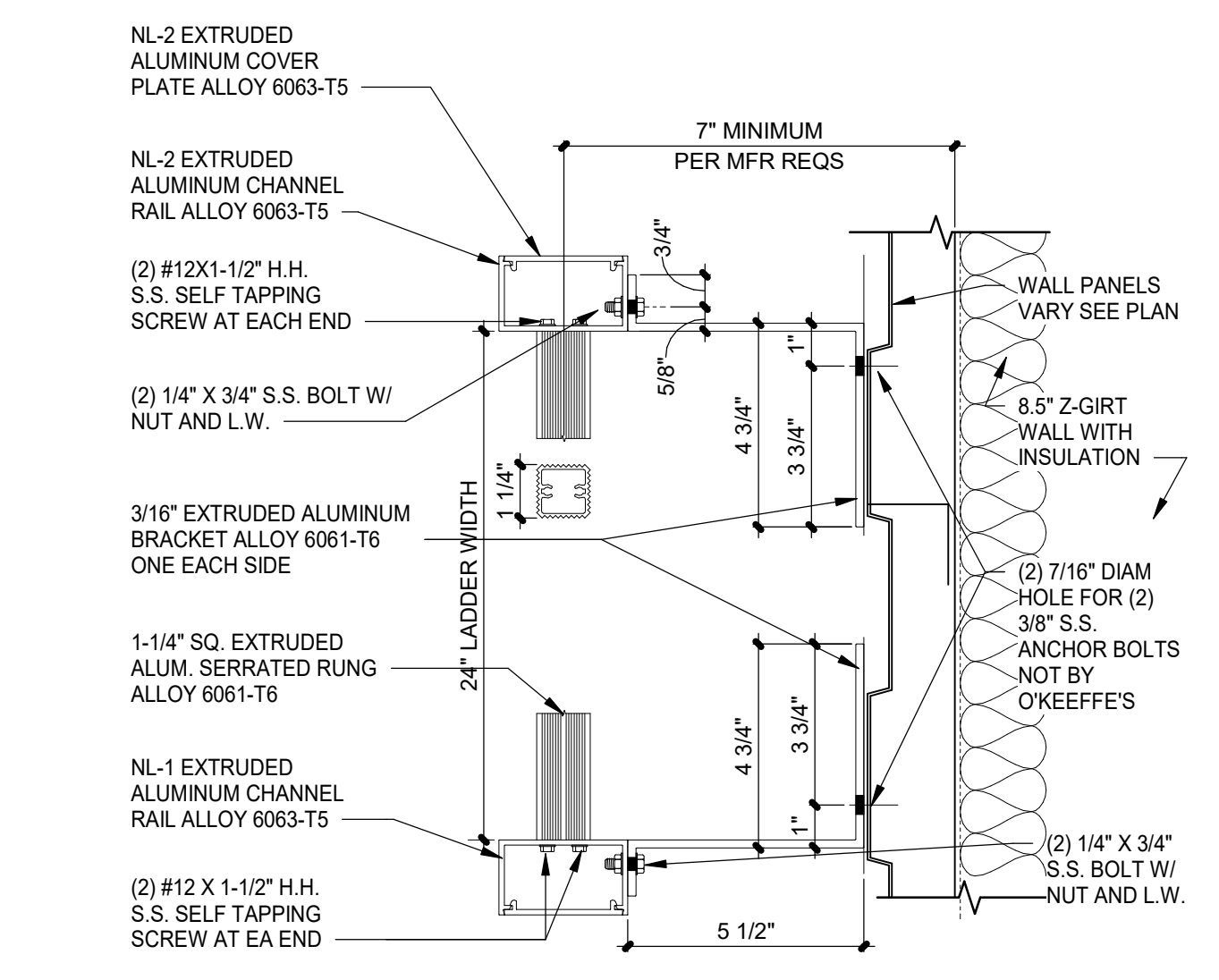
6 ROOF PRESCRIPTIVE ENVELOP REQUIREMENTS
SCALE: 1/2" = 1'-0"



2 LADDER ROOF PLATFORM
SCALE: 1" = 1'-0"



11 METAL CANOPY
SCALE: 1 1/2" = 1'-0"



3 LADDER BRACKET PLAN VIEW
SCALE: 3" = 1'-0"

DATE	ISSUED FOR	REV
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Project Component

Key Plan

Consultants	
Survey:	Brandley Engineering
Civil:	Kimley-Horn
Architecture:	NORR
Structural:	Bevier Structural Eng
Mechanical:	NORR
Electrical:	NORR
Interiors:	NORR
Fire Sprinkler:	Sacramento Engineering Consultants

Seal(s)



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Project Manager	Drawn
Project Leader	Checked
	MIKE NOVAK

Client
MAMMOTH YOSEMITE AIRPORT

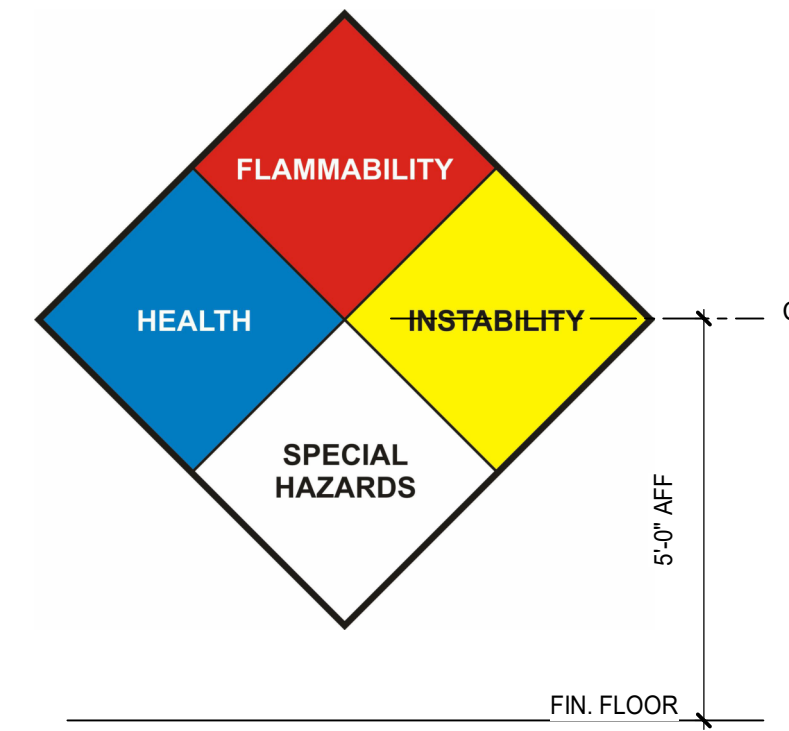
Project
MAMMOTH SRE BLUING

MAMMOTH, CALIFORNIA
Drawing Title
EXTERIOR DETAILS

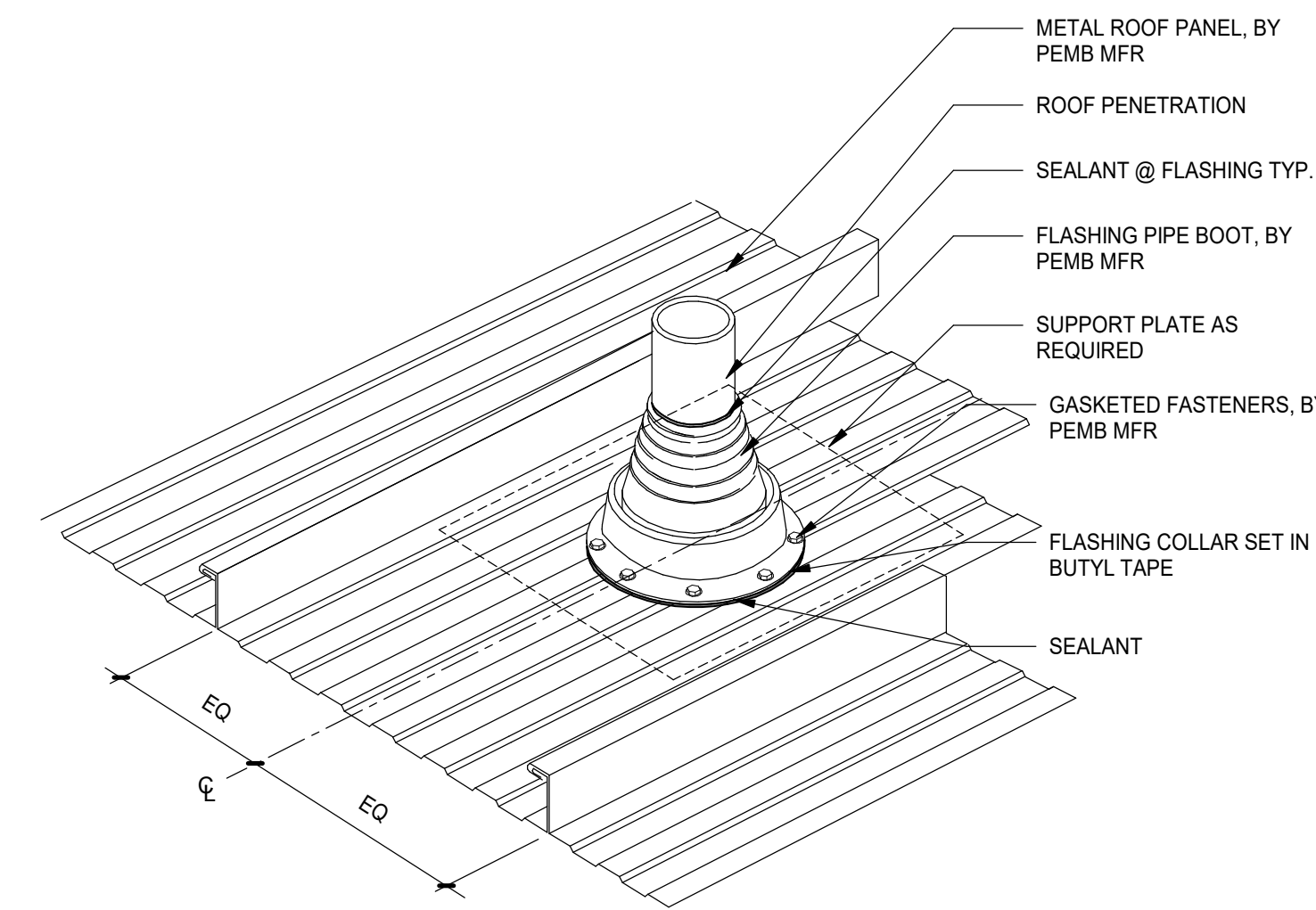
Scale
As indicated

Project No.
IN2024-0022

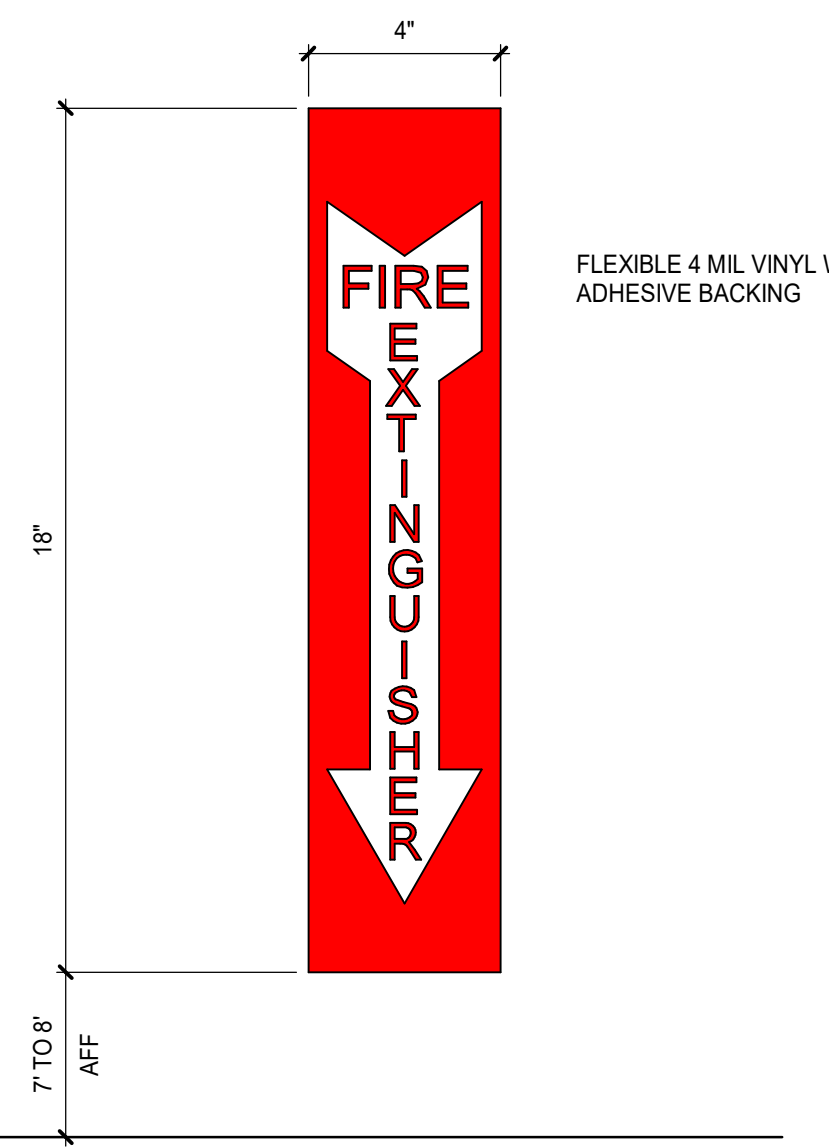
Drawing No.
A50-03



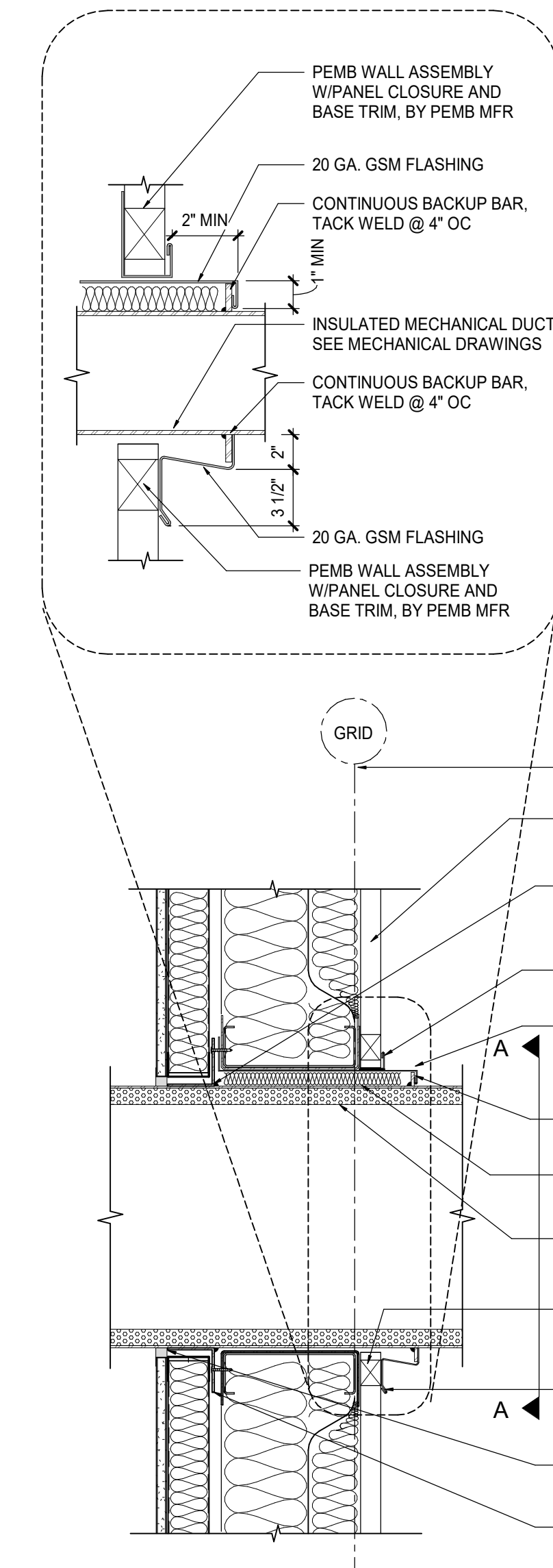
3 NFPA 704 PLACARD
SCALE: 3" = 1'-0"



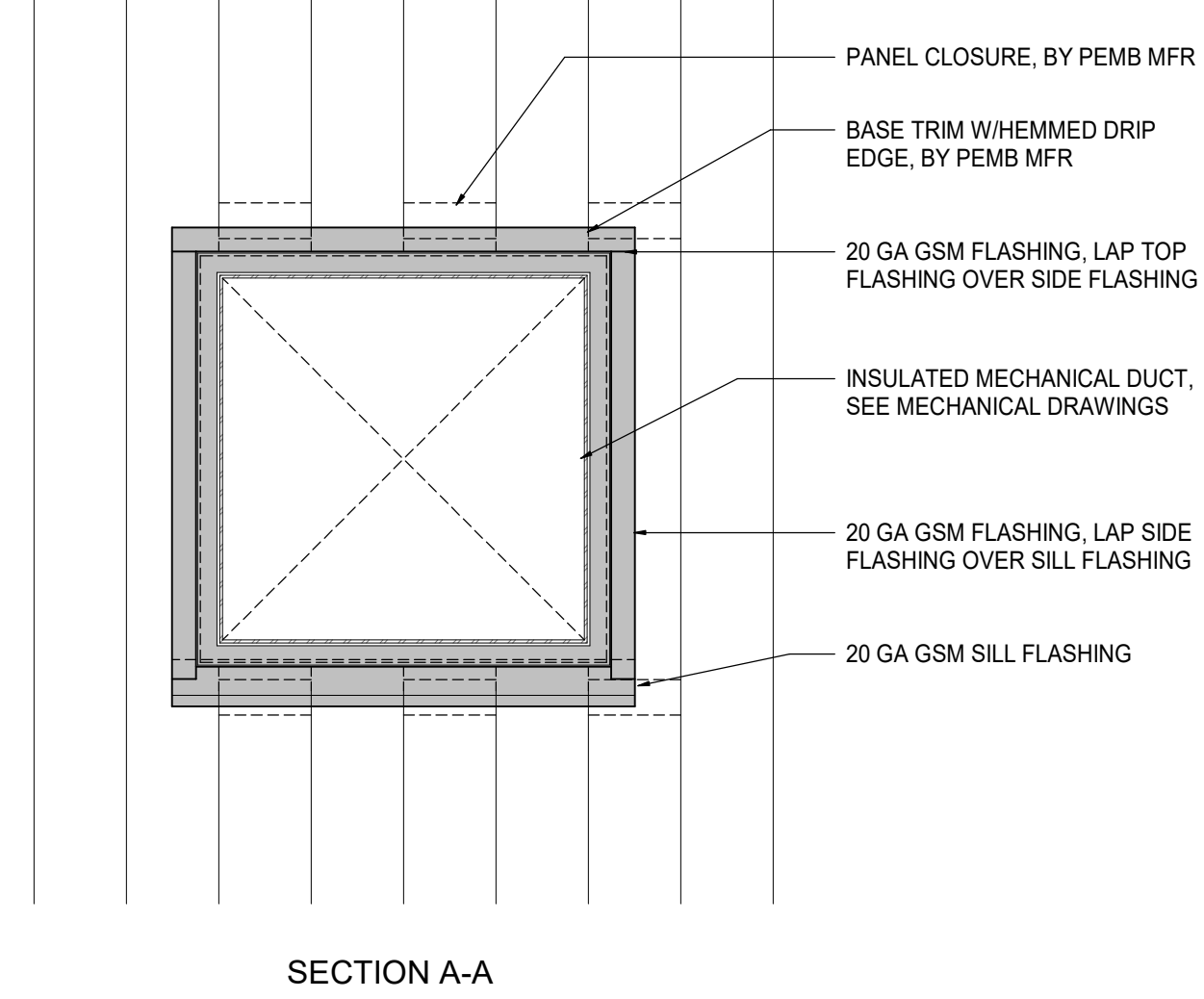
4 ROOF PENETRATION BOOT
SCALE: 1 1/2" = 1'-0"



2 TYPICAL FIRE EXTINGUISHER SIGNAGE
SCALE: 3" = 1'-0"



1 DUCT PENETRATION FLASHING
SCALE: 1 1/2" = 1'-0"



DATE	ISSUED FOR	REV
<p>This drawing has been prepared solely for the use of MAMMOTH YOSEMITE AIRPORT and there are no representations of any kind made by NORR to any party with whom NORR has not entered into a contract.</p> <p>This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.</p>		
Project Component		
Key Plan		
<p>Consultants</p> <p>Survey: Brandley Engineering Civil: Kimley-Horn Architecture: NORR Structural: Bevier Structural Eng Mechanical: NORR Electrical: NORR Interiors: NORR Fire Sprinkler: Sacramento Engineering Consultants</p>		
Seal(s)		
<p>NORR</p> <p>2020 I Street, Suite 220 Sacramento, CA, US 95811 norr.com</p>		
Project Manager	Drawn	JON PRICE
Project Leader	Checked	MIKE NOVAK
Client		
MAMMOTH YOSEMITE AIRPORT		
Project		
MAMMOTH SRE BLUIDING		
MAMMOTH, CALIFORNIA		
Drawing Title		
EXTERIOR DETAILS		
Scale		
As indicated		
Project No.		
IN2024-0022		
Drawing No.		
A50-04		

General

- 1. Interpretation of drawings & specifications
A) For convenience, specifications have been prepared for this project and are arranged in several sections that shall not be considered as the limits of the work required by any separate trade.
B) In general, the working details will indicate dimensions, positions and kind of construction, and the specifications will indicate quantities and methods.
C) Should an error appear in the working details or specifications or in work done by others affecting this work, the contractor shall notify the architect at once and in writing.
D) Shop drawings shall be submitted in the form of one reproducible and two copies of each sheet.
E) The purpose of shop drawing submittals by the Contractor is to demonstrate to the Structural Engineer that he understands the design concept by indicating which materials he intends to furnish and install, and by detailing the fabrication and installation methods he intends to use.
F) Prior to fabrication, shop drawings shall be submitted for review to the Structural Engineer. Shop drawing submittals shall include, but are not necessarily limited to structural steel, precast concrete, cast-in-place concrete, and pre-fabricated wood roof framing items such as joists and trusses.
G) Prior to submission the Contractor shall review all submittals for conformance with the contract documents and shall stamp submittals as being "Reviewed for Conformance".
H) Shop drawing submittals processed by the Structural Engineer are not change orders.
I) Any detail on the shop drawing that deviates from the contract documents shall clearly be marked with the note "This is a change".
J) Shop drawings or calculations submitted for review that require a third submittal for re-review shall be billed hourly for such time to the General Contractor. Re-review will not proceed without written approval from the General Contractor for additional engineering review services.
2. Safety Note:
A) It is the Contractor's responsibility to comply with the pertinent sections, as they apply to this project, of the "Construction Safety Orders" issued by the State of California latest edition, and all OSHA requirements.
B) The owner and the Structural Engineer do not accept any responsibility for the Contractor's failure to comply with these requirements.
C) The Contractor shall be responsible for adequate design and construction of all forms and shoring required.
3. The Contractor shall notify the Architect and Structural Engineer where a conflict or a discrepancy occurs between the structural drawings and any other portion of the contract documents or existing field conditions. Such notification shall be given in due time so as not to affect the construction schedule.
4. Where no specific detail is shown, the construction shall be identical or similar to that indicated for like cases of construction on this project.
5. When construction attaches to an existing building, a complete set of drawings of the existing building shall be kept on the job site.
6. Any substitutions for structural members, hardware, or details shall be reviewed by the Architect and Structural Engineer.
7. Do not scale drawings. Contact the Architect or Structural Engineer for any dimensions not shown.
8. These drawings are not complete until reviewed and accepted by the local building official and signed by the owner and the Structural Engineer.
9. All drawings and written material appearing herein constitutes the original and unpublished work of the Structural Engineer and the same may not be duplicated, used or disclosed without the written consent of the Structural Engineer.
10. The structure shown on these drawings is structurally sound only in its completed form. The stability of this structure depends on the diaphragms and the bracing members shown. The contractor is to provide for the design and construction of shoring for all earth, forms, concrete, steel, wood, and masonry to resist gravity, earth, wind, seismic, and construction loads. Shoring shall remain in place until all diaphragms and lateral resisting elements are in place in their entirety. Construction materials shall be spread out if placed on framed floors or roofs. Load shall not exceed the design live load per square foot.

Design Criteria

- 1. Code: 2025 California Building Code (CBC)
2. Design Live Loads:
Area Live Load Remarks
Roof Flat to < 4:12 Lr = 20 psf Reducible per code
Roof 4:12 to < 12:12 Lr = 12-20 psf Reducible per code
3. Snow Design Parameters:
Ground Snow Load Pg = 100 psf
Flat-Roof Snow Load Pfl = 16 psf
Snow Exposure Factor Ce = 0.90
Snow Load Importance Factor Is = 1.20
Thermal Factor Ct = 1.0
4. Wind Design Parameters:
Basic Design Wind Speed (3-sec gust) V = 110 mph
Nominal Design Wind Speed (3-sec gust) Wind = 86 mph
Risk Category IV
Exposure Category C
Internal Pressure Coefficient 10:18
Directional Procedure
5. Earthquake Design Parameters:
5.1. Seismic Importance Factor Iw = 1.5
5.2. Soil Site Classification D'
5.3. Seismic Design Category D'
5.4. Mapped Spectral Response Accel
A) Short period Ss = 1.74Bg
B) 1-sec period Si = 0.610g
5.6. Design Spectral Response Accel
A) Short period Sps = 1.43Bg
B) 1-sec period S1 = 0.641g
5.7 Seismic Force Resisting System By Others
5.8 Seismic Base Shear By Others
5.9 Seismic Response Coefficient By Others
5.10 Component Response Modification Factor By Others
5.11 Analysis Procedure Equivalent Lateral Force

Foundations

- 1. Foundation design is based on the geotechnical report by Brandley Engineering, dated October 27th, 2025.
2. All building pad preparation and foundation work shall be done in accordance with the requirements of the geotechnical report. Copies of the report may be obtained from the engineer upon request.
3. The Geotechnical Engineer shall observe all footing excavations prior to placement of reinforcing steel and concrete.
4. Foundation depths indicated on plans are for estimating purposes only. Actual depths are to be determined by the Geotechnical Engineer on the jobsite as required.
5. When structural observation is required, structural engineer shall observe footing reinforcing steel prior to concrete placement. Provide 48 hours notice to structural engineer prior to concrete placement.
6. The contractor shall be solely responsible for all excavation procedures including, but not limited to, lagging, shoring and protection of adjacent property, structures, streets, and utilities in accordance with the local building department.
7. Foundation type: conventional spread footings.
Spread footing design values:
Allowable Bearing Pressures
DL 2000 psf
DL + LL + wind or seismic 2666 psf
Lateral Resistance
Passive Pressure 450 pcf
Coefficient of friction 0.25
Minimum footing dimensions depth = 36" width = 36" (spread footings)

Prefabricated Metal Building

- 1. Design and fabrication shall conform to the 2025 California Building Code (CBC), and the latest editions of AISI "Specifications for the Design, Fabrication, and Erection of Structural Steel Buildings", and AISI "Specifications for the Design of Cold-Formed Steel Structural Members".
2. Metal Building Manufacturer (MBM) shall be AISI category "MB" certified.
3. Drawings, calculations and engineering data on structural sections for all components shall be submitted to the Owner for review prior to fabrication. See Design Criteria Notes for loading information.
4. Calculations and drawings shall be signed by a Civil or Structural Engineer registered in the state in which the project is located.
5. Building manufacturer shall provide plan drawing showing column locations and anchor bolt locations prior to fabrication. Anchor bolt sizes, numbers, and locations are to be designed and detailed by MBM. MBM shall furnish required anchor bolts and setting templates.
6. Contractor shall verify all dimensions with Architectural drawings and MBM column layout prior to foundation construction.
7. All hardware required for connecting building components shall be designed, detailed and provided by building manufacturer.
8. Contractor shall provide temporary erection bracing as required.
9. Building designer shall account for the weight of all mechanical equipment in the design of all building components which support such units.
10. Foundation design is based on preliminary evaluation of metal building reactions. Final building reactions are to be submitted to the Owner for validation of foundations prior to construction. The foundation design may need to be revised to meet the final building reactions.

Structural Deferred Submittals

- 1. Deferred submittals shall conform to the 2025 CBC.
2. The following are structural deferred submittal items:
A. Prefabricated Metal Building
B. Sprinklers
C. Composites
D. Foundation Design (Foundation Plan shown for bidding purposes only)
3. The submittal shall include but shall not be limited to layout drawing, any necessary sections and/or details, and design calculations stamped and signed by a Professional Engineer licensed in the State of California.
4. Submittal documents for deferred submittal items shall be submitted to the Architect or Engineer of Record for review prior to submission to the Building Official.
5. Ten working days shall be allowed for the Architect or the Engineer to review each deferred submittal.
6. The deferred submittal items shall not be installed until their design and submittal documents have been approved by the Building Official.
7. Deferred submittals shall be made for enough in advance such that no delay in construction occurs.

Concrete

- 1. Structural concrete shall attain 28-day compressive strength as required in note #30. Maximum slump shall not exceed 4".
2. Concrete mix designs shall be prepared by a registered Civil Engineer, reviewed by Owner's testing laboratory and submitted to the Structural Engineer for review. Selection of concrete mix proportions shall be per ACI 318-14 Section 26.4.3, & 26.4.4.
3. Concrete mix design shall conform to technical specification section P-610.
4. Cementitious materials:
Cement shall conform to ASTM C-150 Type I or II.
Fly ash in concrete shall conform to ASTM C-618. Max quantity of fly ash shall be as given in specs (15% max u.n.o.)
5. Concrete aggregates shall conform to ASTM C-33 for normal weight concrete and ASTM 3359 for light weight concrete.
6. Water shall be clean and free from injurious amounts of oils, acids, alkalis, salts, organic materials or other substances deleterious to concrete or reinforcement.
7. Non-shrink grout or grout substitute shall consist of a premixed nonmetallic formula. See note #27 for additional information.
8. Reinforcing steel shall conform to ASTM A615-grade 60 for #4 and larger, and ASTM A615-grade 40 for #3 and smaller, except reinforcing steel to be welded shall conform to ASTM A706. Contractor shall submit rebar mill certificates.
9. Welded wire fabric shall conform to ASTM A-1064.
10. All preheating and welding of reinforcing bars shall be done in accordance with AWS D14.1 latest edition and shall be continuously inspected by a qualified laboratory. Contractor shall furnish WPS for all rebar welding to the laboratory.
11. Reinforcing steel shall be fabricated according to "Manual of Standard Practice for Reinforced Concrete Construction".
12. Dimensions shown for location of reinforcing are to the face of bars listed and denote clear coverage. Non-prestressed, cast-in-place concrete coverage shall be as follows, u.n.o.:
Earth against earth (except slabs) 3"
Cast in forms and exposed to earth or weather #6 & larger 2" #5 & smaller 1 1/2" Beams & columns (tees) 1 1/2" Beams & columns (main rebar) 2" Cast-in-place walls (interior face - #11 & smaller) see above Tilt-up walls 3/4" see details Slabs (on forms) 2" Slabs (on ground) 2" c/c from top u.n.o.
13. Splices in continuous reinforcement shall be lapped u.n.o., lap bars per note 31 u.n.o., splices in adjacent bars shall be greater than 5'-0" apart.
14. The minimum clear spacing between parallel bars in a layer shall not be less than the larger of bar diameter, 1" or 3/8" greater than the maximum aggregate size (nominal), whichever is greatest. This requirement also applies to the clear spacing between different layers of parallel bars and to the clear distance between a contact lap splice and adjacent splices or bars.
15. All hooks shall be standard hooks unless otherwise shown or noted. At walls, provide hooks at ends of all reinforcing ends, corners and intersections, u.n.o.
16. Provide construction control joints @ all slabs on grade as noted on plan. Proposed joint plan shall be submitted to the Structural Engineering for approval prior to construction. Concrete surface at construction joints shall be thoroughly cleaned and isolated removed, where indicated on drawings, roughen concrete surface to 1/4" amplitude. Concrete may be roughened by chipping the entire surface, sand blasting or raking the surface to provide 1/4" deep deformations.
17. Remove all debris from forms before casting any concrete.
18. Reinforcing dowels, bolts, anchors, sleeves, etc. to be embedded in concrete shall be securely positioned in forms before placing concrete.
19. Pipes and electrical conduits shall not be embedded in structural concrete or concrete fill over metal decking except where specifically approved by the Structural Engineer.
20. Anchor bolts (AB's) cast in concrete or masonry for wall sill and ledger/ applications shall be headed bolts with threads conforming to ASTM A307 or F1554 u.n.o. Refer to "Wood notes" for additional requirements for bolts in contact with pressure treated or fire retardant material. Refer to "Structural steel" note for requirements for anchor rods cast in concrete for column base plate and steel embed applications.
21. Walls shall be cast in horizontal layers of 2'-0" maximum depth.
22. Concrete in walls, piers or columns shall set at least 2 hours before placing concrete in beams, spandrels, or slabs supported thereon.
23. Consolidate concrete placed in forms by mechanical vibrating equipment supplemented by hand-spreading, rodding or tamping. Use equipment and procedures for consolidation of concrete in accordance with the recommended practices of ACI 304 to suit the type of concrete and project conditions. Concrete shall not be dropped through reinforcing steel (as in walls) so as to cause segregation of aggregates. In such cases hoppers and chutes or trunks of variable lengths shall be used so that the free unconfined fall of concrete shall not exceed 6 feet.
24. Drill through steel columns, beams and plates to pass continuous reinforcing, u.n.o.
25. No wood spreaders allowed. No wood stakes allowed in areas to be concreted.
26. Additional reinforcing in precast or tilt-up panels required for lifting stresses shall be supplied by Contractor.
27. Provide #5x4'-0" diagonal reinforcing at mid-depth of slab at all re-entrant corners typical. This applies to slab on grade, concrete over metal deck, and elevated structural slab conditions.
28. Place non-shrink grout under base plates, sill plates, etc. as indicated on the drawings. Non-shrink grout shall be MasterFlow #28 Grout by Master Builders Technologies or approved equal with a minimum f'c of 7500 psi @ 28 days.
29. All saw cutting shall be done after initial set has occurred to avoid tearing or damage by the saw blade, but before initial shrinkage has occurred.
30. Notify Structural Engineer a minimum of 48 hours before placing any concrete.
31. Concrete strength, (max slump = 4')

Table with 4 columns: Use, f'c @ 28 days, Max Aggregate Size, Density (lbs/cu yd), Max W/C Ratio. Includes development lengths table for Straight Bars and With Standard Hooks.

- 32. Development lengths shall be provided per the table below unless noted otherwise.
33. Concrete finish shall be as required by the airport. A hard trowel finish is desired inside the building. Contractor shall note that the concrete mix requires 2% ± 0.5% entrained air for interior hard trowel finish areas. Contractor shall exercise extreme caution so that the finishing operations do not cause surface delamination or other defects. Any defective surface finish shall be repaired or replaced by the contractor at no cost to the owner.
34. Areas of concrete located outside of the building shall have 5% ± 1.2% air-entrainment and shall have a brace finish.
35. Concrete slab shall not be constructed and left exposed over the winter. The building shall be completed and closed in over the slab prior to winter and freezing temperatures to protect the slab from freezing.

Structural Steel

- 1. Fabrication, erection and materials shall conform to the specifications and standards of the AISI, as contained in the "AISC 360-16 Specifications of Structural Steel Buildings", and the "AISC Manual of Steel Construction", 15th edition and California Building Code latest edition.
2. Structural steel shall conform to the following specifications, u.n.o.:

Table with 2 columns: Shapes, ASTM Specification. Lists various steel shapes like Wide Flanges, Channels, Plates, Bolts, etc.

- 3. Bolted connections shall consist of unfinished bolts per the table above unless noted otherwise. Anchor bolts cast in concrete or masonry shall be headed bolts with cut thread, full diameter body style conforming to ASTM F1554 u.n.o., unless noted otherwise, anchor bolts/rods shall be grade 36 except that welded anchor bolts shall be grade 55 per SI Supplementary requirements. All bolted connections and base plates shall have standard cut washers unless noted otherwise. Washers at base plates shall be placed at top and bottom of plate.
4. "Slip-critical" bolted connections:
A) "Slip-critical" connections (A325-SC design values with special inspection) are required at all braced frame connections, at all connections along chord lines and drag lines (as noted on plans), and u.n.o., at all bolts in oversized or slotted holes.
B) The special inspector must be present during installation and tightening operation of "slip-critical" connections.
5. All structural steel shall receive minimum of one shop coat of red primer with a minimum dry film thickness of 2.0 mils. Do not shop prime or paint areas to be field welded, re-primed, galvanized, to receive slip-critical high strength bolts, or to be embedded in concrete. Prior to priming or painting, clean structural steel in accordance with the American Welding Council (AWS) recommendations & as required by the primer & paint manufacturer. Provide additional painting as noted in the specifications.
6. All structural steel shall be erected plumb and true to line. Temporary bracing shall be installed and shall be left in place until other means are provided to adequately brace the structure. Contractor responsible for reviewing all base plate and support conditions during erection and bracing as required. See AISI and OSHA requirements.
7. Place non-shrink grout under all base plates before adding vertical load. See Concrete Notes for non-shrink grout requirements.
8. Structural steel members shall have 3" minimum of concrete cover.
9. Provide 1/2" stitch bolts and ring fills, space at not more than 24" cc for all double angle members.
10. At wood to steel parallel contact, attach with 1/2" welded threaded studs at maximum 32" cc @ 6" from ends of wood member, typical unless noted otherwise.
11. Holes for unfinished bolts shall be of the same nominal diameter of the bolt plus 1/16". Use standard AISI gage and pitch for bolts except as noted otherwise. Holes for anchor bolts embedded in concrete shall be of the same nominal bolt diameter plus 3/8" unless noted otherwise.
12. Welding shall be done by the electric arc process in accordance with American Welding Society standards, using only certified welders. All groove welds shall have complete penetration unless noted otherwise. All exposed welds shall be ground smooth. All welding to be done using E70xx electrodes. In addition, welding of ASTM A572 grade 50 steel and ASTM A912 steel shall be done with electrodes capable of despoiling weld metal with a maximum diffusible hydrogen content of 1eml/100g (H16). Weld lengths called for on plans are the net effective lengths required.
13. Minimum fillet welds:
3/8" @ t < 1/2"
1/2" @ t < 3/4"
3/4" @ t > 3/4"
14. Welding Process Specifications (WPS) for shop and field pre-qualified weld joints and weld joints qualified by test shall be prepared for review prior to fabrication. All welding procedures that meet these requirements of AWS D11 Sec. 5.1 shall be considered as pre-qualified. Qualification testing is required when the depth of a partial penetration groove weld is 2" or greater.
15. Structural steel & fasteners that are permanently exposed to weather shall be either primed and painted or hot dipped galvanized in accordance with ASTM A123 & A153. Repair galvanized welding in accordance with ASTM A153.
16. When structural steel & connections will be exposed to view in the completed building, they shall be fabricated, erected & finished in compliance with Architecturally Exposed Structural Steel (AESS) guidelines & Section 10 of the AISI 309-22 "Code of Standard Practice for Steel Buildings and Bridges".

Expansion Anchors-Concrete:

- 1. Use Hilli Kwik Bolt-T22 Expansion Anchors as manufactured by Hilli Inc., Tulsa Oklahoma, ICG-ES Report No. ESR-4266 reissued December 2023.
2. Installation of anchors shall be in accordance with the manufacturer's recommendations, ICG-ES Report, and these notes.
3. Special inspection is required in accordance with the 2025 CBC Sections 1705A.11.3 and 1904.5. Special inspector must verify product, expiration date, concrete type and strength, anchor diameter and steel grade, compliance of drill bit, hole diameter and location, cleanliness of hole and anchor, and anchor embedment.
4. Each anchor type (loaded in either pullout or shear) shall be torque tested in accordance with CBC Section 1904.5 to the appropriate test load shown in the table. If any anchor fails testing, all anchors of the same type not previously tested shall be tested until 20 consecutive anchors pass, then initial testing frequency may be resumed.
5. When installing anchors in existing concrete do not cut or damage existing reinforcing bars. Locate existing reinforcing bars with pachometer or x-ray if required.
6. The testing of the anchors shall be done by the Testing Laboratory and a report of the test results shall be submitted to the Building Dept. and Architect/Structural Engineer.
7. Anchors installed up into the bottom of metal deck with concrete fill shall be installed in the center of the low flute of the decking. The decking shall have a minimum thickness of 20 gauge. The minimum depth of embedment above the top of the deck shall be 1 1/2". The effective depth of embedment is considered to be one-third of the metal deck height plus the depth of embedment above the top of the deck. There shall be a minimum concrete cover of 1" between the top surface of the concrete and the end of the bolt.

Table with 4 columns: Anchor Diameter, Embedment Effective/Nominal u.n.o., Carbon Steel Anchors Installation Torque (ft-lbs), Stainless Steel Anchors Installation Torque (ft-lbs). Includes Normal Weight Concrete Anchors and Hilli Kwik Bolt-T22 Expansion Anchors.

Project information block including: Project Component (Key Plan), Consultants (Brandley Engineering), Seal (JEFFREY H. KOVACH, REGISTERED PROFESSIONAL ENGINEER), NORR logo, Project Manager (JW), Project Leader (JK), Client (MAMMOTH YOSEMITE AIRPORT), Project (MAMMOTH SRE BLUIDING), Drawing Title (GENERAL NOTES), Scale, Project No. (IN2024-0022), Drawing No. (S1.1).

Test and Inspections

- Tests and Inspections shall be provided as required below and shall conform to the requirements of 2025 CBC, Chapter 17.
- All Test and Inspections shall be performed by a certified special inspector from an established Testing & Inspection Company, unless noted otherwise. Jobsite visits by the Structural Engineer do not constitute inspections and are not a substitute for special inspection.
- The special inspector shall observe the work indicated for conformance with the approved construction documents.
- The special inspector shall furnish inspection reports to the building department, the engineer or architect of record, and other designated persons. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority and to the building department.
- The special inspector shall submit a final signed report stating whether the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved construction documents and the applicable workmanship provisions of the 2025 CBC.
- It is the contractor's sole responsibility to see that these tests and inspections are performed.
- Required Tests and Inspections are indicated below with a solid filled rectangle.

8. Continuous notation indicates the full-time observation of work requiring special inspection by an approved special inspector who is present at the work area. Periodic notation indicates the intermittent observation of work.

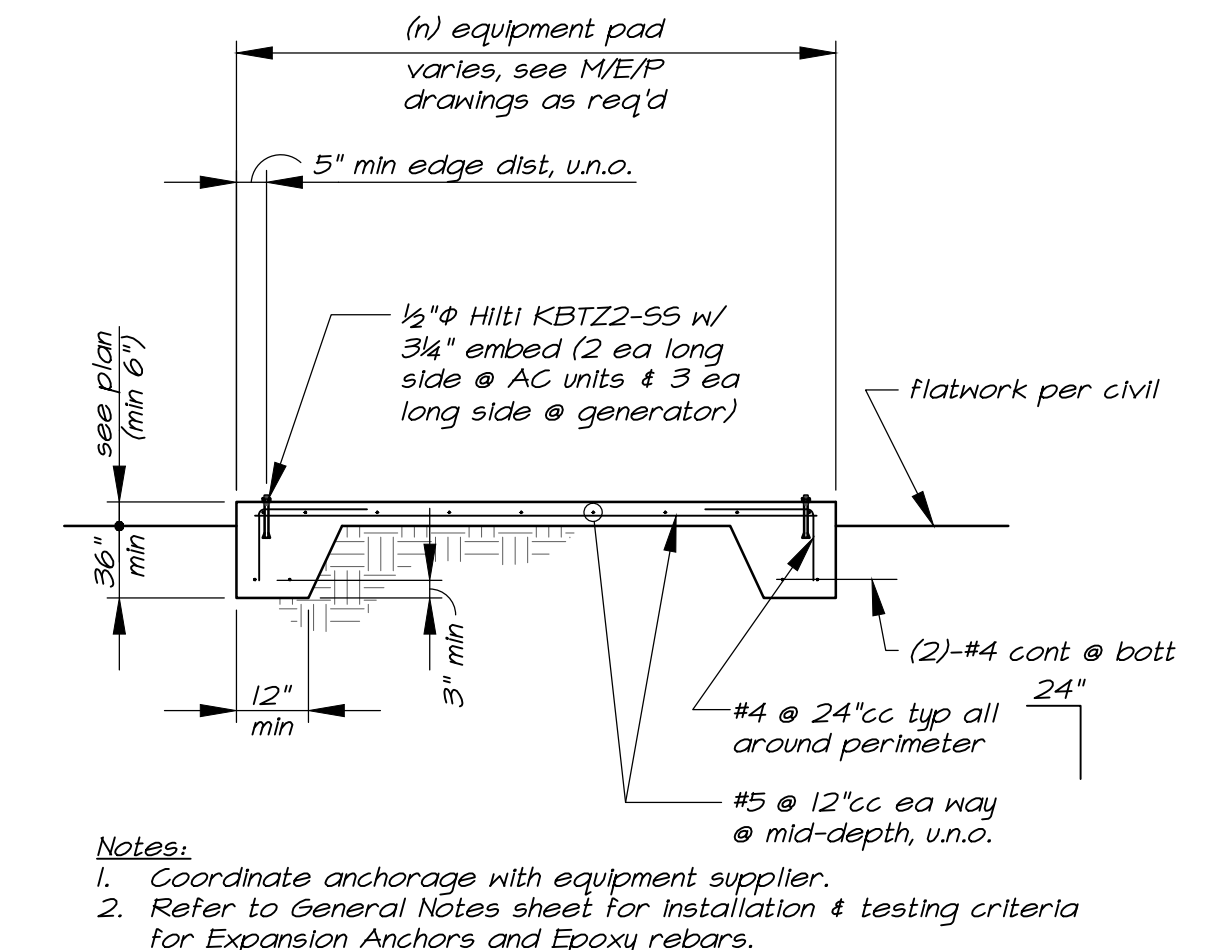
Tests & Documentation/Certification Required

- Note: Coordinate with building department Test & Inspection form.
- A. Compact Fill
 - B. Concrete mix design, cement, aggregates & admixtures
 - C. Concrete strength f'c test
 - D. Reinforcing steel mill certification
 - E. Structural steel mill certification
 - F. Structural steel, cold formed steel, and anchor bolt sampling & testing (if not properly identified)
 - G. Non-destructive weld test for all complete penetration groove welds by Ultrasonic testing or Radiography
 - H. Masonry strength f'm
 - I. Masonry mortar, grout proportion, aggregates, additives
 - J. Post installed anchors: Expansion / Epoxy Anchors
 - K. High strength bolts, nuts and washers
 - L. End-welded studs
 - M. Buckling Restrained Brace (Load Test)
 - N. Beam to column moment connection
 - O. Veneer bond strength test
 - P. Concrete prestressing tendons and anchorage
 - Q. Shotcrete preconstruction test
 - R. Shotcrete strength & core test
 - S. Prefabricated items
 - T. Test to support alternative designs
 - U. Isolator unit prototype & production testing

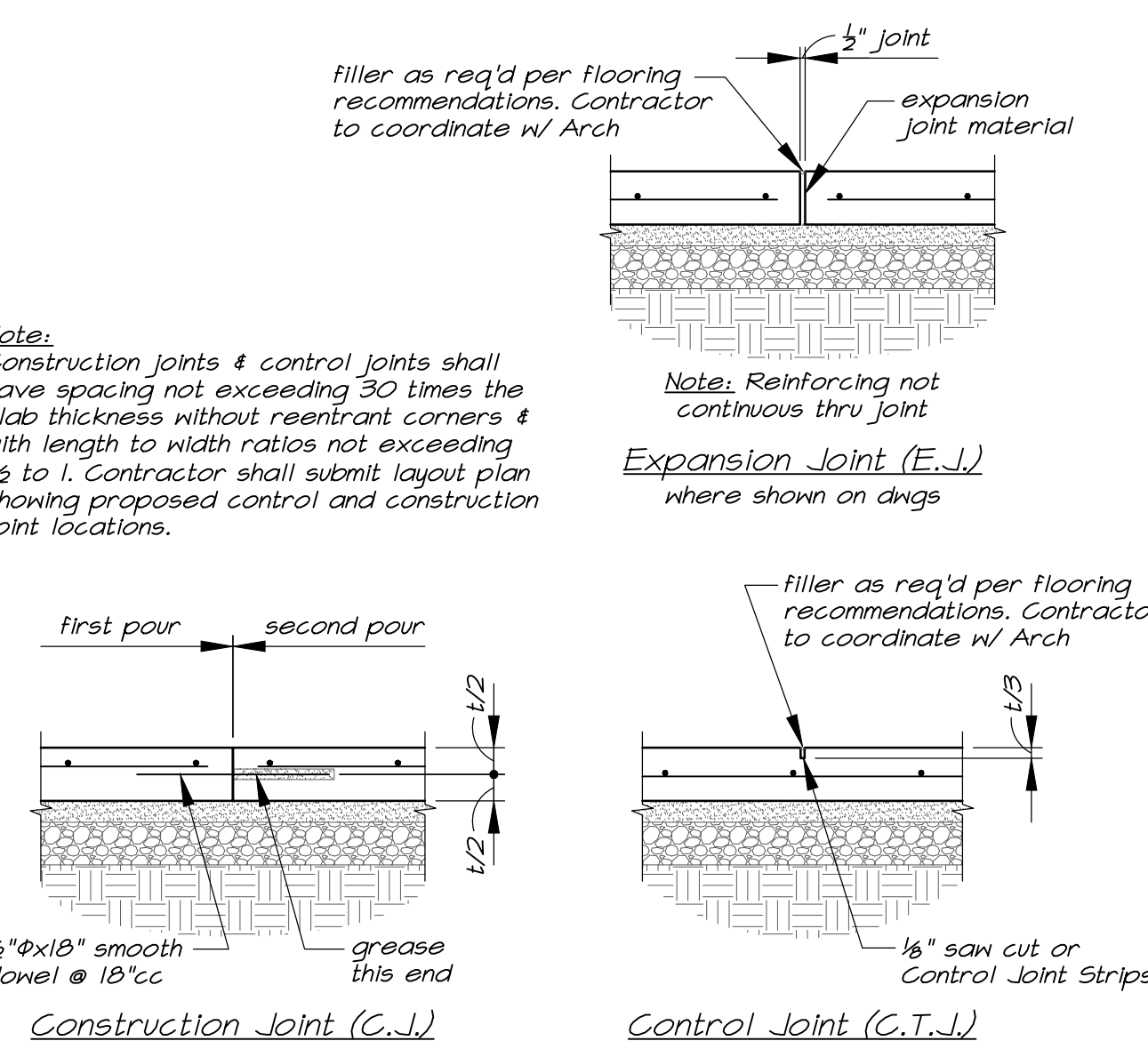
Verification and Inspection	Continuous	Periodic
A. STEEL		
1. Material verification of high-strength bolts, nuts & washers	<input type="checkbox"/>	<input type="checkbox"/>
2. Inspection of high-strength bolting, bearing & typical connections	<input type="checkbox"/>	<input type="checkbox"/>
3. Inspection of Welding Structural Steel, (field/shop) Complete & partial penetration groove welds	<input type="checkbox"/>	<input type="checkbox"/>
Multi-pass fillet welds	<input type="checkbox"/>	<input type="checkbox"/>
Single-pass fillet welds > 3/8"	<input type="checkbox"/>	<input type="checkbox"/>
Single-pass fillet welds ≤ 3/8"	<input type="checkbox"/>	<input type="checkbox"/>
Floor and roof deck welds	<input type="checkbox"/>	<input type="checkbox"/>
4. Inspection of Steel Frame Joint Details for Compliance with Approved Construction Documents	<input type="checkbox"/>	<input type="checkbox"/>
5. Automatic end-weld stud shear connectors	<input type="checkbox"/>	<input type="checkbox"/>
CONCRETE		
1. Concrete Placement	<input type="checkbox"/>	<input type="checkbox"/>
2. Inspection of reinforcing steel & placement	<input type="checkbox"/>	<input type="checkbox"/>
3. Inspection of anchors cast in concrete	<input type="checkbox"/>	<input type="checkbox"/>
4. Precast concrete attachments & inserts	<input type="checkbox"/>	<input type="checkbox"/>
5. Erection of precast concrete members	<input type="checkbox"/>	<input type="checkbox"/>
WOOD		
1. Verify grade and thickness of sheathing	<input type="checkbox"/>	<input type="checkbox"/>
2. Verify nominal size of framing members at adjoining panel edges	<input type="checkbox"/>	<input type="checkbox"/>
3. Verify nail diameter and length, number of fasteners, lines spacing between fasteners in each line and at edge margins	<input type="checkbox"/>	<input type="checkbox"/>
4. Verify positive connection of wood members supporting balcony or deck connections to exterior walls prior to concealment	<input type="checkbox"/>	<input type="checkbox"/>
MASONRY PLACEMENT & GROUTING		
Note: refer to TMS 602-16 Tables 3 & 4		
1. Level 2 masonry inspection (Risk Categories I, II, III)	<input type="checkbox"/>	<input type="checkbox"/>
2. Level 3 masonry inspection (Category IV, DSA, OSHPD)	<input type="checkbox"/>	<input type="checkbox"/>
SOIL (by Geotechnical Engineer)		
1. Footing excavation	<input type="checkbox"/>	<input type="checkbox"/>
2. Pile/Pier foundation	<input type="checkbox"/>	<input type="checkbox"/>
3. Material verification below footing	<input type="checkbox"/>	<input type="checkbox"/>
4. Excavation verification to proper depth	<input type="checkbox"/>	<input type="checkbox"/>
5. Placement and compaction of controlled fill	<input type="checkbox"/>	<input type="checkbox"/>
POST-INSTALLED ANCHORS		
1. Expansion anchor installation	<input type="checkbox"/>	<input type="checkbox"/>
2. Epoxy anchor installation	<input type="checkbox"/>	<input type="checkbox"/>

Abbreviations

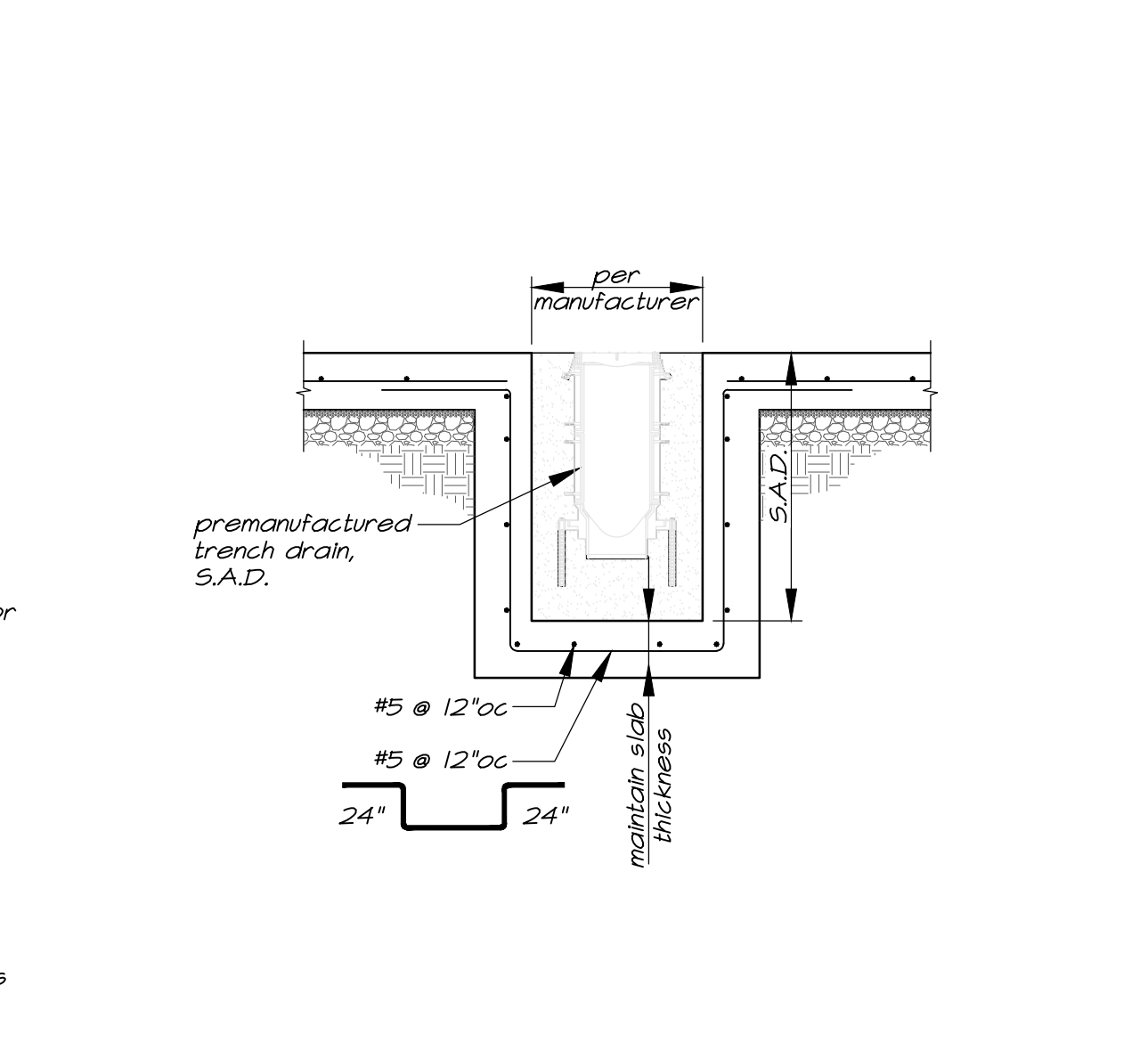
- addl Additional
- alt Alternate
- AISC American Institute of Steel Construction
- APA American Plywood Association
- ASTM American Society for Testing and Materials
- AWS American Welding Society
- AB Anchor Bolt
- Arch Architect/Architectural
- at At
- b.o. Bottom of
- Beam Beam
- brg Bearing
- btr Better
- btwn Between
- blk Blocking
- B.S. Both sides
- butt Bottom
- BN Boundary nail
- cg Ceiling
- cc Center to center
- cl Center line
- cl Clear
- col Column
- CF Concrete Penetration
- conc Concrete
- CMU Concrete masonry unit
- conn Connection
- CJ Construction Joint
- cont Continuous
- cont Control Joint
- DL Dead Load
- det Detail
- diag Diagonal
- dia Diameter
- do Ditto
- DF Douglas Fir
- dbl Double
- dn Down
- dhg Drawing
- ea Each
- EF Each Face
- embed Embedment
- EN Edge Nail
- EAL Each Way
- elev, el Elevation
- eq Equal
- equip Equipment
- (e) Existing
- EJ Expansion Joint
- FC Face of Concrete
- FB Face of Block
- FM Face of Masonry
- FP Face of Plywood/Sheathing
- FS Face of Stud
- fn Finish
- F.F. Finish Floor
- F.G. Finish Grade
- fr Floor
- fg Footing
- fd Foundation
- f.o. Face of
- frmg Framing
- galv Galvanized
- ga Gauge
- glb Glued-laminated beam
- g.l. Grid Line
- hgr Hanger
- hdr Header
- ht Height
- HSD High strength bolt
- HSS Hollow Steel Section
- hk Hook
- horiz Horizontal
- id Inside diameter
- int Interlock
- inv Inverted
- joint Joint
- jh Joint hanger
- LS Lag screw
- lt. wt. Light weight
- LL Live Load
- LLH Long leg horizontal
- LLV Long leg vertical
- LV Laminated Veneer Lumber
- MB Machine bolt
- mf Manufacturer
- max Maximum
- mech Mechanical
- M Miscellaneous iron
- min Minimum
- misc Miscellaneous
- ml Metal
- N.I.C. Not in contract
- (n) New
- nts Not to scale
- # Number or pounds
- oc On center
- OHJ Open web joist
- opng Opening
- opp Opposite
- OH Opposite Hand
- o.d. Outside diameter
- PP Partial penetration
- pc piece
- pl Plate
- Ply, plynd Plywood
- psf Pounds per cubic foot
- psf Pounds per square foot
- psf Pounds per square inch
- PAF Powder Actuated Fasteners
- PTDF Pressure Treated Douglas Fir
- r Radius
- RDND Redwood
- rein Reinforcing
- req'd Required
- rt Roof
- R.O. Rough opening
- Ø Round or diameter
- sched Schedule
- S.A.D. See architectural drawings
- S.E.D. See electrical drawings
- S.M.D. See mechanical drawings
- SMS Sheet Metal Screws
- SDS Simpson Strong-Drive Screw
- SDSTS Self drilling self tapping screw
- SC shear connector 3/4" uncl
- shg Sheathing
- sh Sheet
- SMS Sheet metal screw
- sim Similar
- s.o.g. Slab on grade
- sq square
- stagg Staggered
- std Standard
- stl Steel
- ssl Stainless Steel
- stfr Stiffener
- struct Structural
- SP structural plywood
- SPEN structural plywood edge nailing
- symm Symmetrical
- TN Toe nail
- 14B Top & bottom
- L.O.C. Top of concrete
- L.O.F. Top of framing
- L.O.P. Top of plate
- L.O.S. Top of steel
- L.O.N. Top of Nail
- 14g Tongue & groove
- TS Tube Steel
- typ Typical
- UNO Unless noted otherwise
- vert Vertical
- v.f. Verify in field
- w With
- W/N Without
- WS Wood screw
- WP Working point
- WHS Welded headed studs
- WNF Welded wire fabric
- WCLIB West Coast Lumber Inspection Bureau



7 Conc Housekeep Pad on Grade

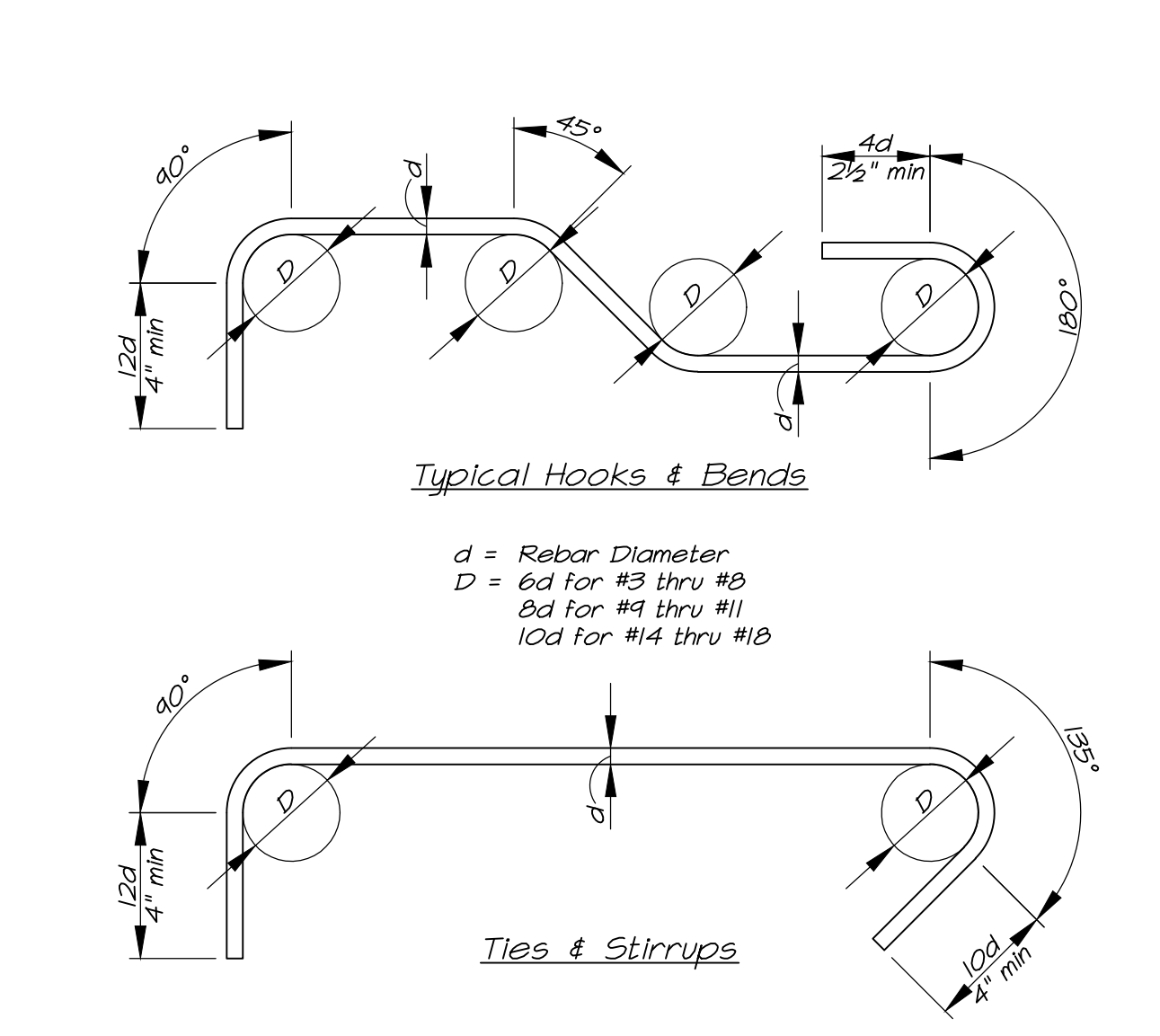


4 Slab-on-Grade Joints

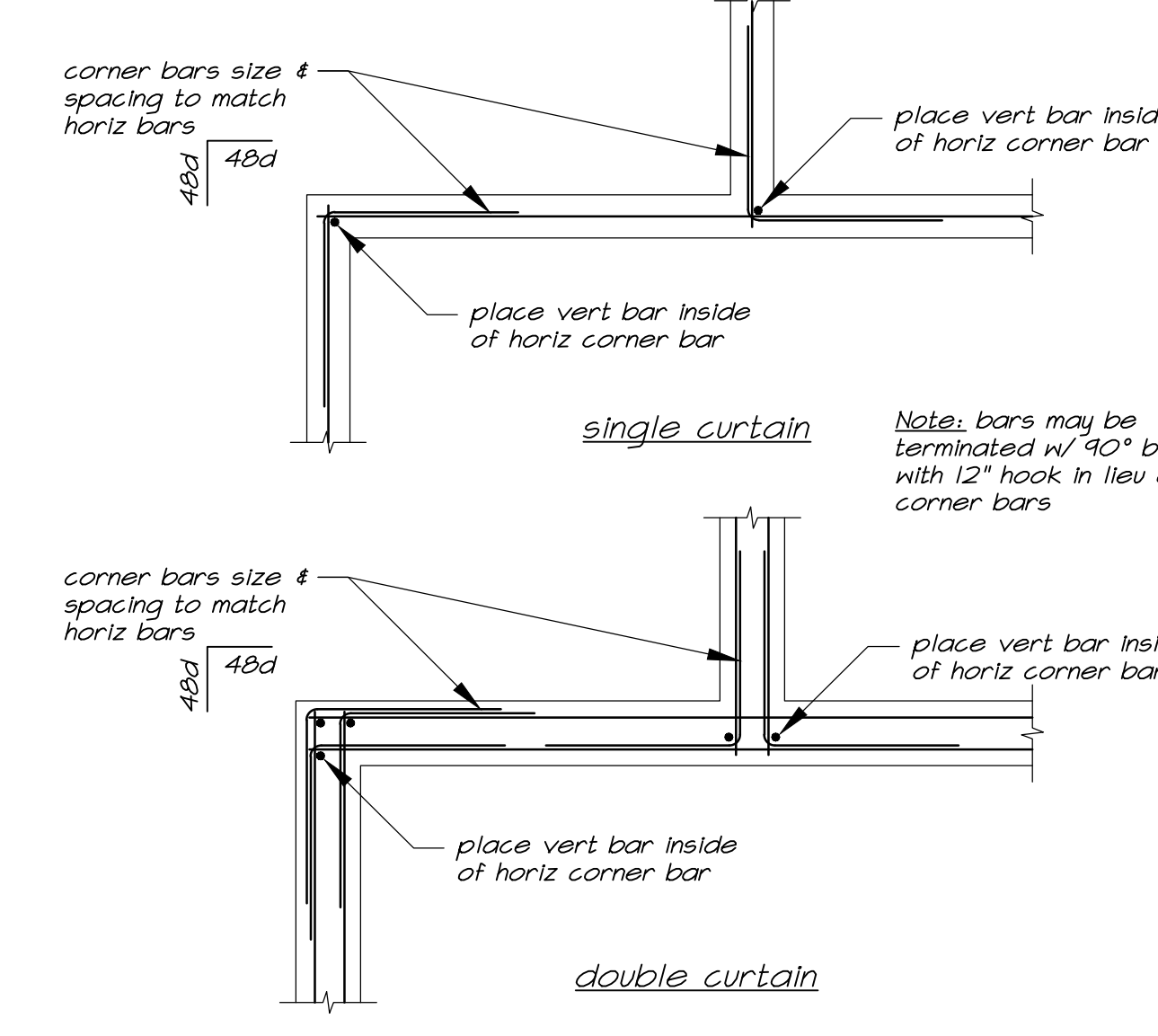


5 Detail

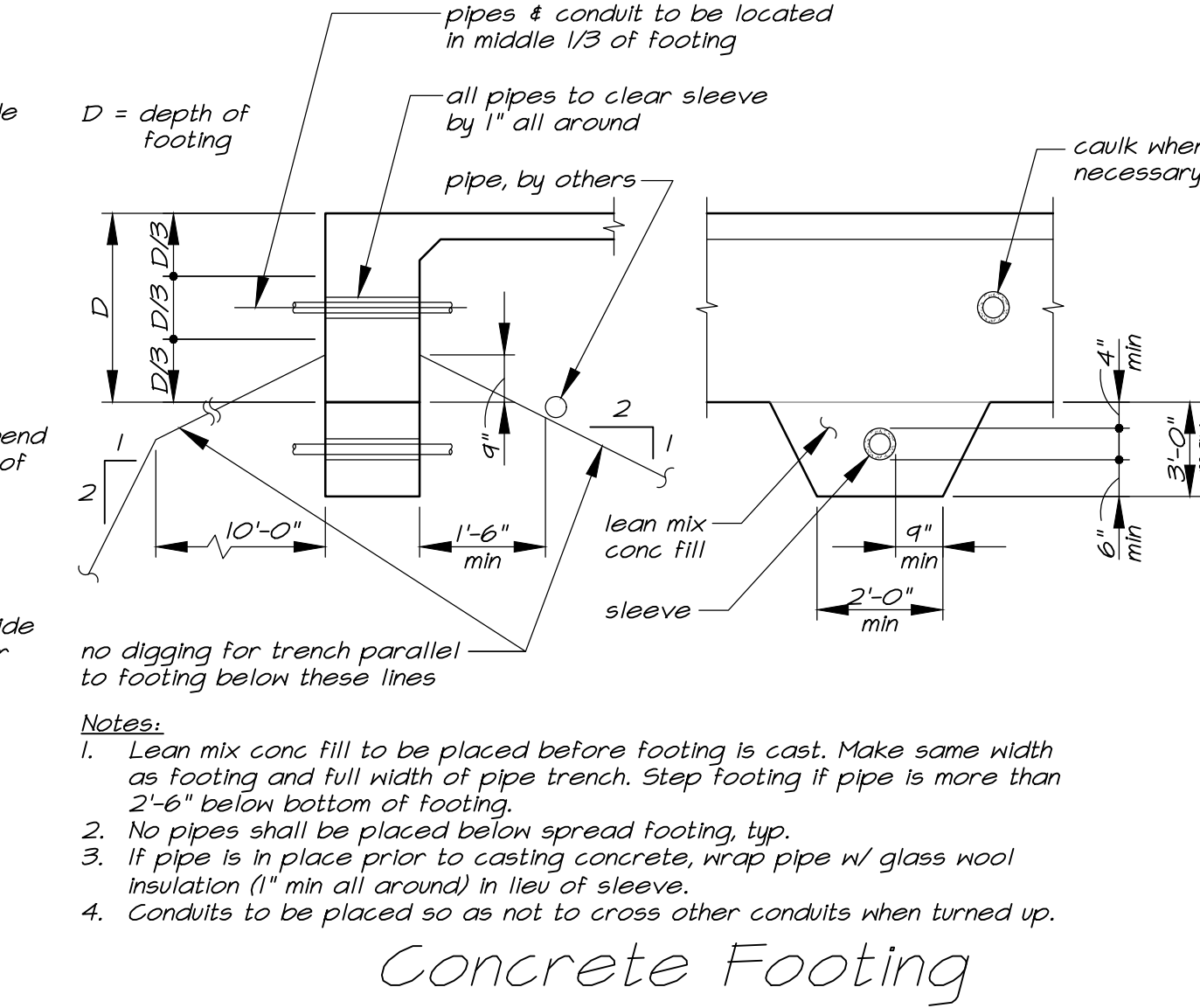
6 Typical Slab Depression



1 Rebar Hooks & Bends



2 Typical Corner Reinforcing



3 Concrete Footing @ Pipes & Conduits

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Project Component

Key Plan

Consultants

Survey: Brandley Engineering
Civil: Kinley Horn
Architecture: NORR
Structural: Bevier Structural Eng
Mechanical: NORR
Electrical: NORR
Interiors: NORR
Fire Sprinkler/Sacramento Engineering Consultants

Seal(s)

Electronically Signed On: 4/24/26

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Bevier Job No: 240424

Project Manager: Drawn: JMW
Project Leader: Checked: JK

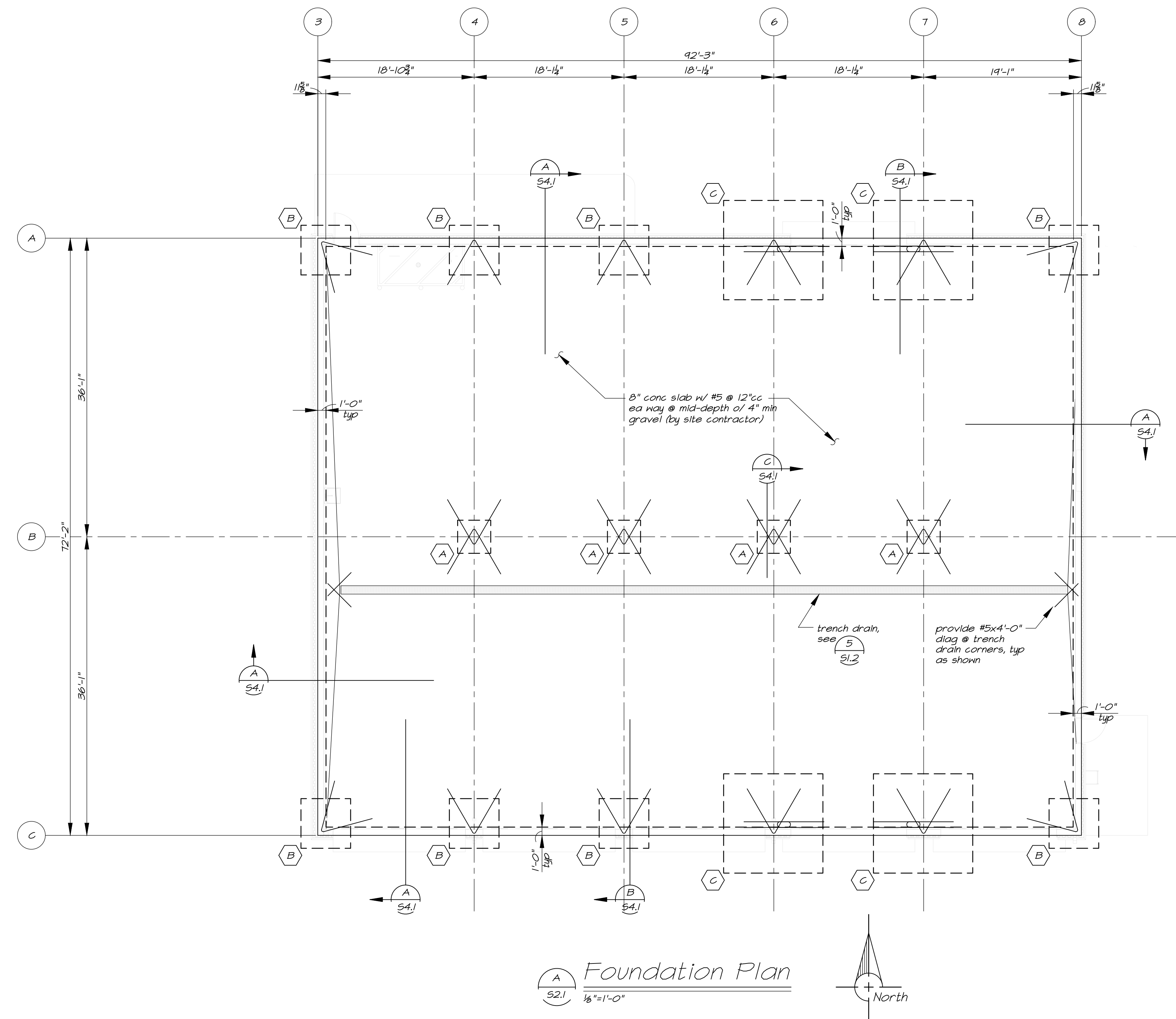
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Project: **MAMMOTH SRE BLUIDING**

MAMMOTH, CALIFORNIA
Drawing Title: **GENERAL NOTES & TYPICAL DETAILS**

Scale:

Project No: IN2024-0022
Drawing No: **S1.2**



Foundation Plan
1/8"=1'-0"

Mark	Size	min depth (thickness)	Reinforcing
(A)	4'-0" sq	24"	4-#5 ea way @ 14b
(B)	6'-0" sq	24"	6-#5 ea way @ 14b
(C)	12'-0" sq	24"	12-#5 ea way @ 14b

Note:
 1. Anchor bolts cast in concrete shall be headed bolts with cut thread, full diameter body style conforming to ASTM F1554 or .36.
 2. Coordinate column size/base E/orientation/anchor bolts w/ metal building manufacturer.

Foundation Notes

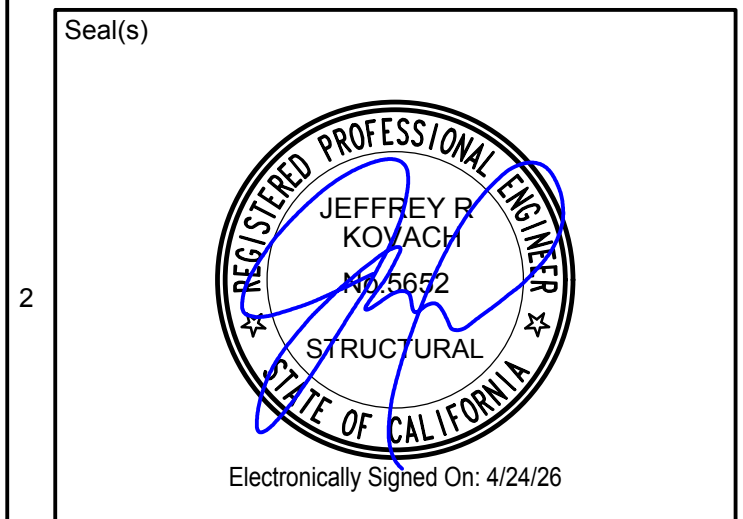
- Site preparation and building pad construction shall be done in accordance with the recommendations in the geotechnical report referenced in the "Foundations" note on sheet S1.1.
- Verify all dimensions with architectural drawings. Notify Architect immediately of any discrepancies for resolution prior to proceeding.
- Dimensions are to face of concrete (FC) or column centerlines, typical u.n.o.
- Spread Footings are centered on columns and braced frames, typical u.n.o.
- Top of concrete slab = reference elevation +0'-0".
- Top of footing elevation = -1'-0" below reference elevation +0'-0" typical u.n.o.
- Provide 3" concrete cover minimum @ base E, anchor bolts, and columns typical.
- For typical reinforcing bends and corner reinforcing, see (1) S1.2, (2) S1.2, (3) S1.2.
- For pipe penetrations through continuous footings, see (3) S1.2.
- Indicates top of footing elevation below reference elevation +0'-0".
- Indicates footing type, see schedule (1) S2.1.
- Indicates hairpin with 60° splay, per (1) S4.1.
- Indicates hairpin with 0° splay, per (1) S4.1.
- Coordinate column size/base E/orientation w/ building manufacturer. See footing schedule for anchor bolt embedment.
- Verify concrete finish requirements with architectural drawings and specifications.
- See specifications for specific air entrainment requirements. Interior slab to have specific air entrainment percentage.

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Project Component
Key Plan

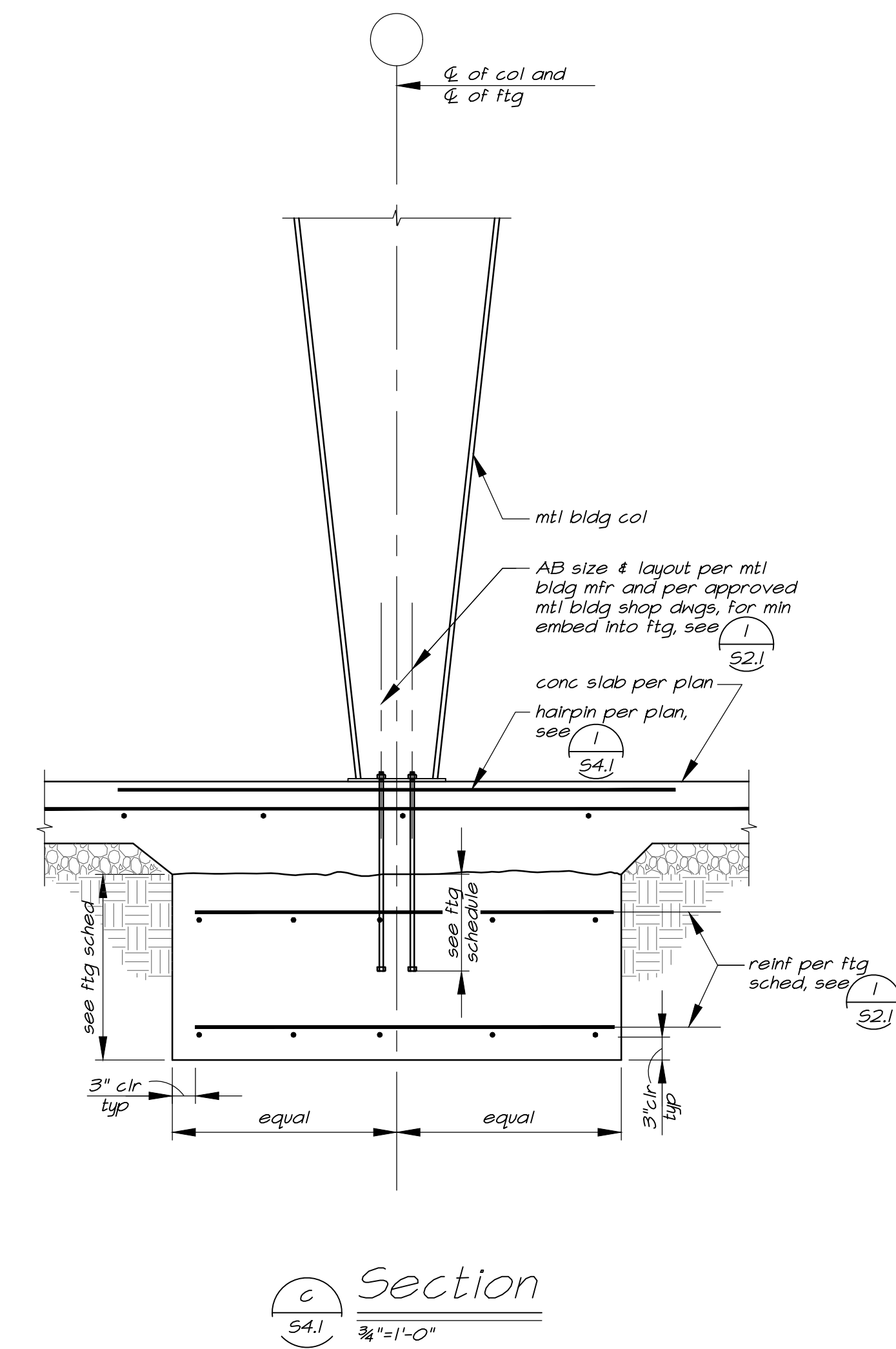
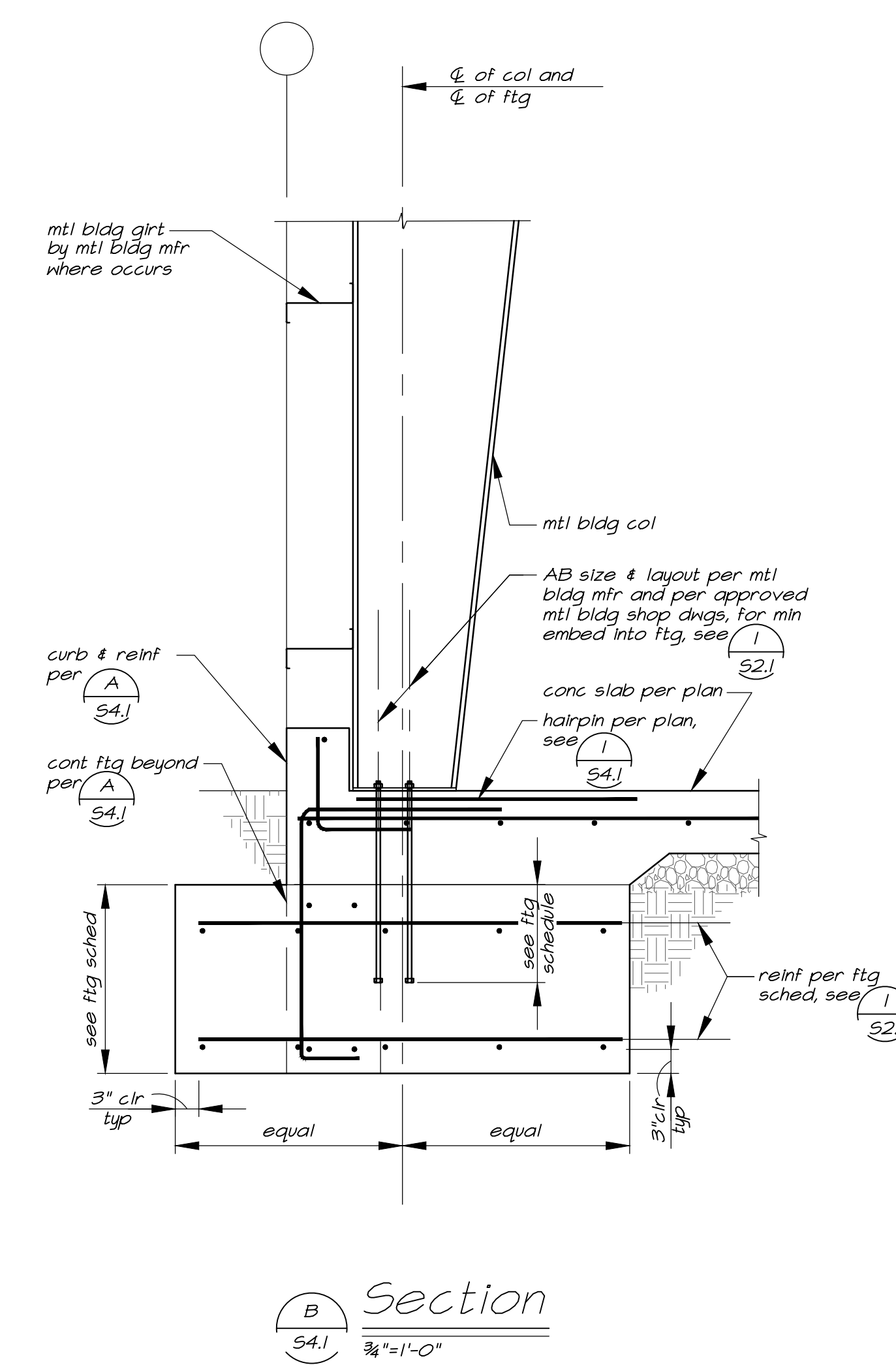
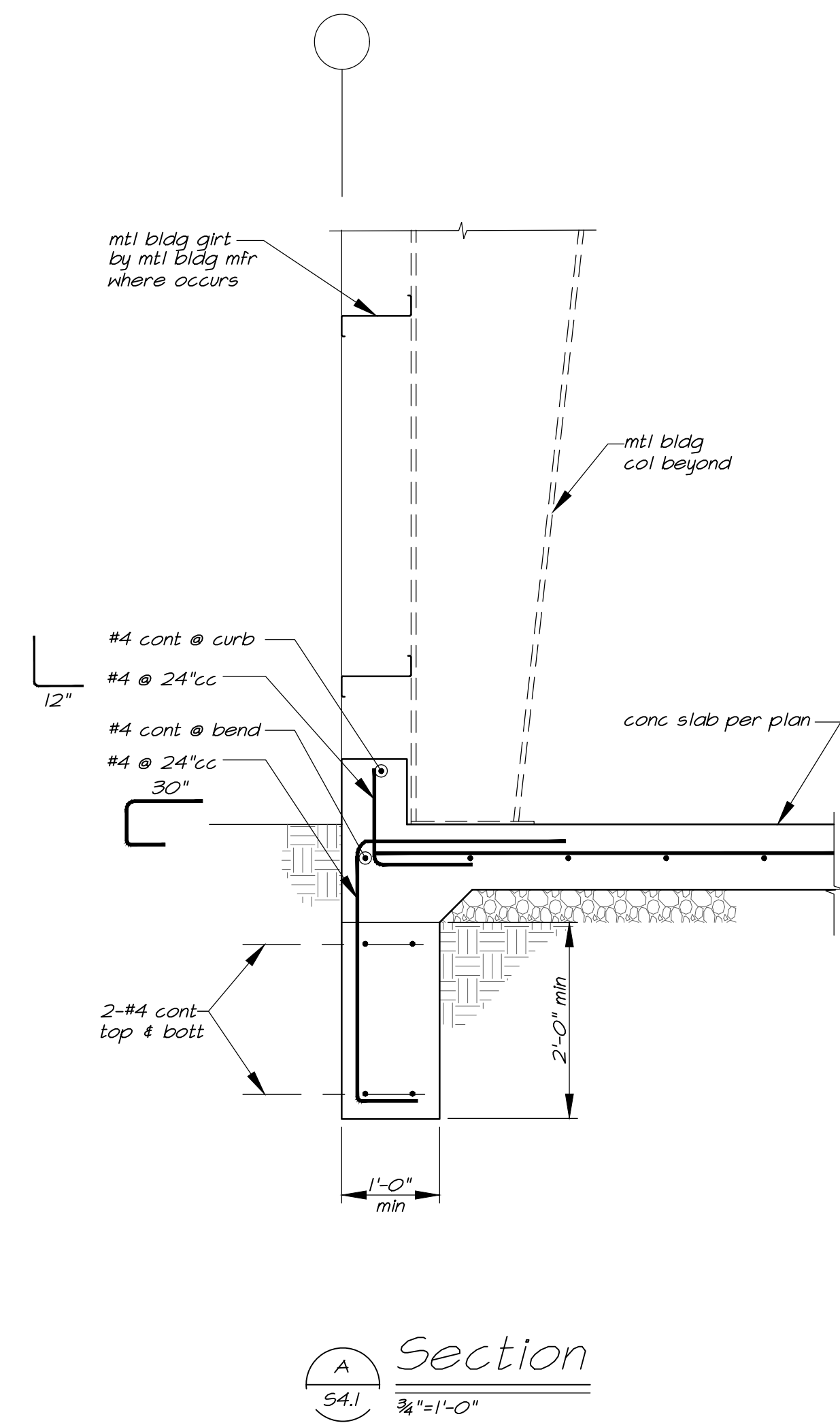
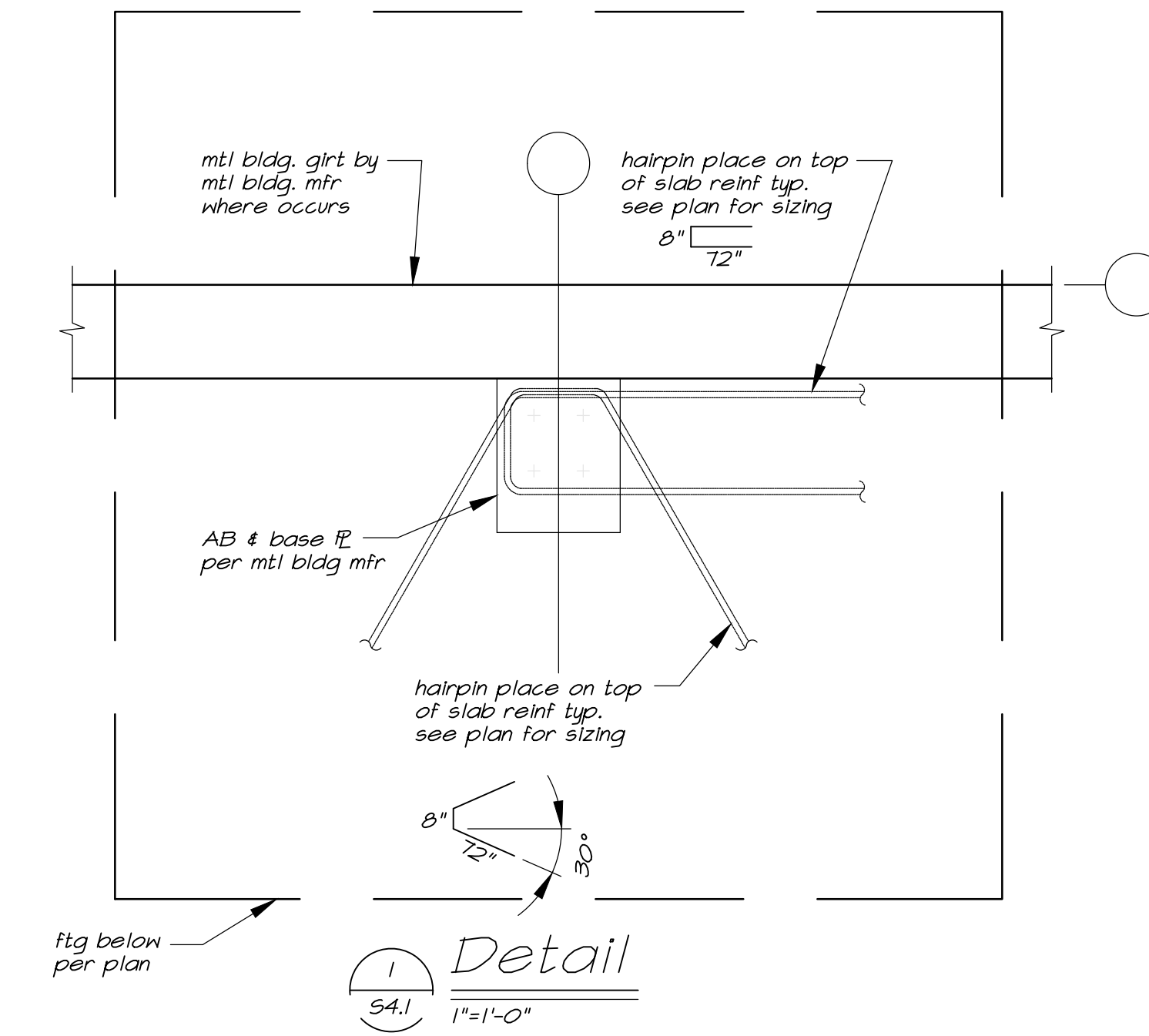
Consultants
 Survey: Brandley Engineering
 Civil: Kinley-Horn
 Architecture: NORR
 Structural: Bevier Structural Eng
 Mechanical: NORR
 Electrical: NORR
 Interiors: NORR
 Fire Sprinkler/Sacramento Engineering Consultants



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 Bevier Job No: 240424

Project Manager: Drawn JW
 Project Leader: Checked JK
 Client: **MAMMOTH YOSEMITE AIRPORT**
 Project: **MAMMOTH SRE BLUIDING**
 MAMMOTH, CALIFORNIA
 Drawing Title: **FOUNDATION PLAN**
 Scale:
 Project No.: IN2024-0022
 Drawing No.: **S2.1**



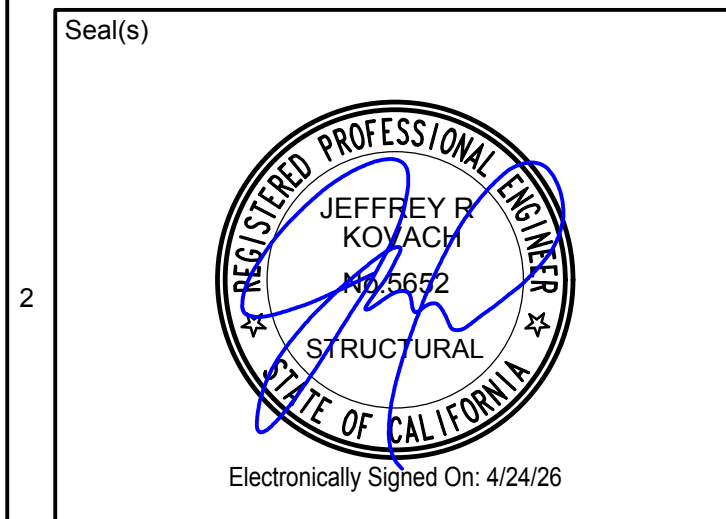
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Project Component
Key Plan

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Survey: Brandley Engineering
Civil: Kimley-Horn
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Structural: Bevier Structural Eng
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Project Leader: Checked JK

Client: **MAMMOTH YOSEMITE AIRPORT**

Project: **MAMMOTH SRE BLUIDING**

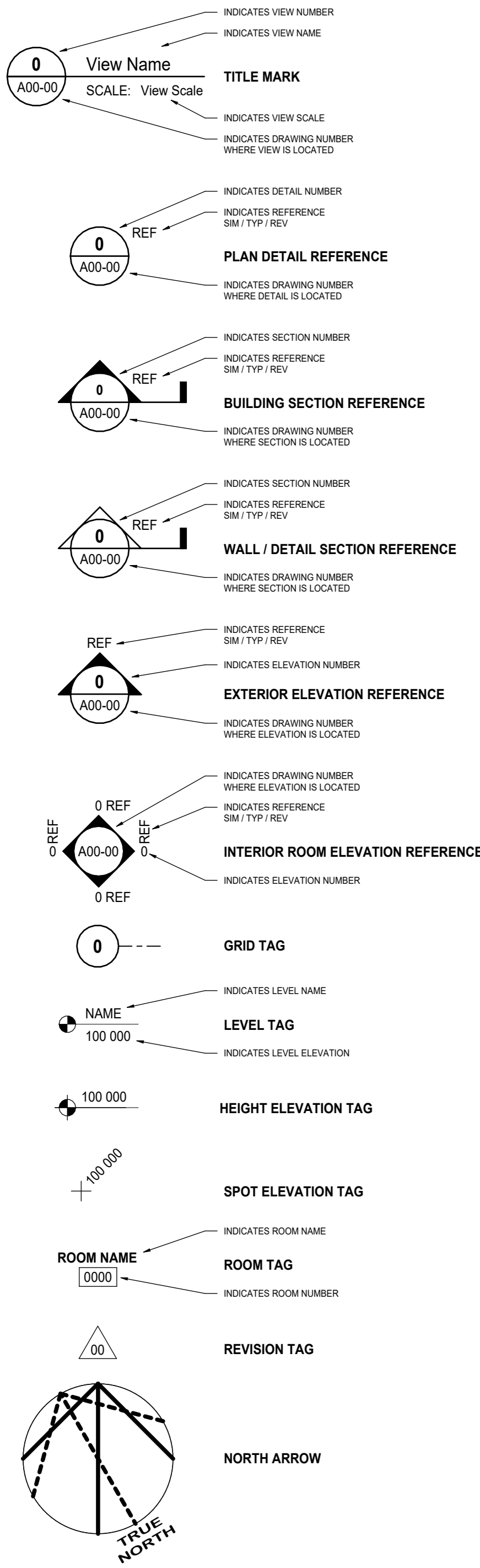
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Drawing Title: **SECTIONS**

Scale
Project No.: IN2024-0022
Drawing No.: **S4.1**

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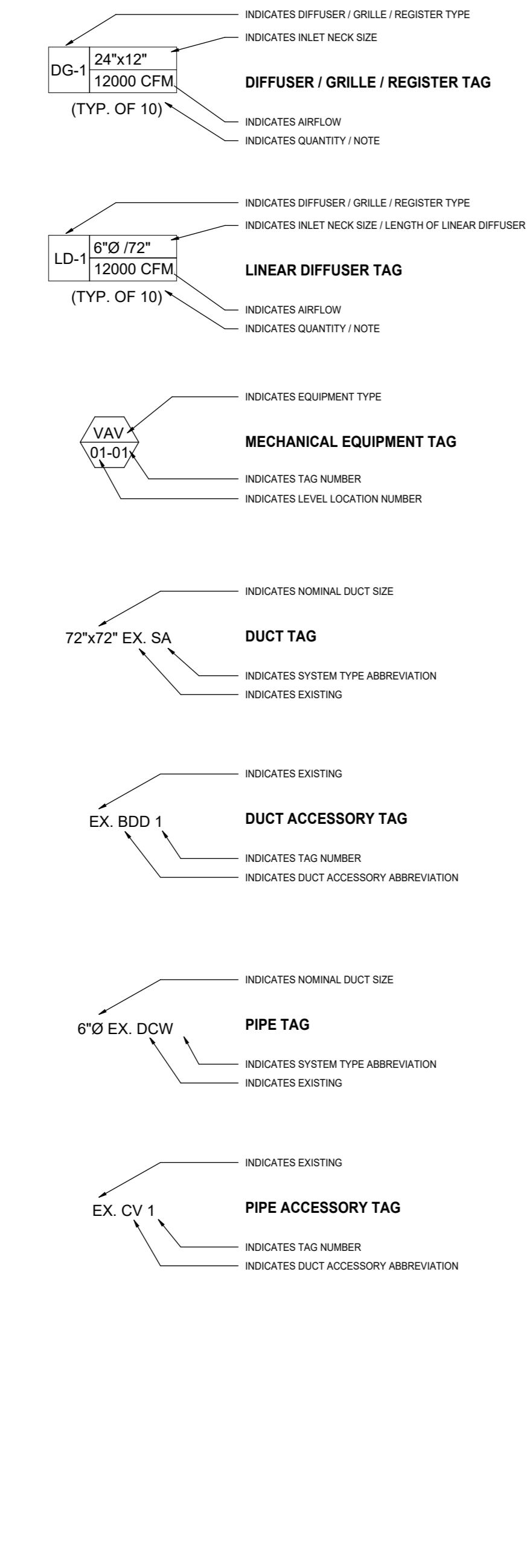
SYMBOL LEGEND

ANNOTATION SYMBOLS



MECHANICAL TAG LEGEND

MECHANICAL TAG SYMBOLS



ABBREVIATIONS - MECHANICAL

AAV	AUTOMATIC AIR VENT
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CHILLER
ACD	AUTOMATIC CONTROL DAMPER
AD	ACCESS DOOR
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFMS	AIRFLOW MEASURING STATION
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
ALD	ACOUSTICALLY LINED DUCTWORK
AO	ANALOG OUTPUT
AP	ACCESS PANEL
ARCH	ARCHITECT
AS	AIR SEPARATOR
ATC	AUTOMATIC TEMPERATURE CONTROL
ATD	AIR TERMINAL DEVICE
AVC	AUTOMATIC CONTROL VALVE
AVG	AVERAGE
AVS	AIR VOLUME TRAVERSE STATION
AW	ACID WASTE
B	BOILER
BT	BATH TUB
BAS	BUILDING AUTOMATIC SYSTEM
BBH	BASE BOARD HEATER
BD	BALANCING DAMPER
BD	BIDET
BDD	BACK DRAFT DAMPER
BFF	BELOW FINISHED FLOOR
BFL	BOTTLE FILLER
BFP	BACK FLOW PREVENTOR
BHP	BREAK HORSEPOWER
BI	BACKWARD INCLINED
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BPB	BYPASS BOX
BSPMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BWV	BACKWATER VALVE
CWV	COMPLETE WITH
CB	CHILLED BEAM
CB	CATCH BASIN
CBV	CIRCUIT BALANCING VALVE
CC	COOLING COIL
CCT	CONDENSATE COOLER TANK
CF	CEILING FAN
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHW	CHILLED WATER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CL	CENTERLINE
CLAP	CLEAN AGENT PANEL
CLG	CEILING
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONTR	CONTRACTOR
CORR	CORRIDOR
CR	COOLING WATER RETURN
CRAC	COMPUTER ROOM AIR CONDITIONER
CS	COOLING WATER SUPPLY
CT	COOLING TOWER
CTBD	COOLING TOWER BLOW DOWN
CTE	CONNECT TO EXISTING
CTK	COMPRESSION TANK
CU	CONDENSING UNIT
CUF	CUBIC FEET
CUH	CABINET UNIT HEATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D	DRAIN
DB	DRY BULB TEMPERATURE
DB	DRAIN BOX
DC	DRY COOLER
DCV	DEMAND CONTROL VENTILATION
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DCW	DOMESTIC COLD WATER
DDC	DIRECT DIGITAL CONTROL
DF	DRINKING FOUNTAIN
DG	DOOR GRILLE
DH	DUCT HEATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRCULATION
DI	DIGITAL INPUT
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN (PENETRATES FLOOR SLAB)
DO	DIGITAL OUTPUT
DOV	DRAIN OFF VALVE
DPAV	DRY PIPE ALARM VALVE
DPS	DIFFERENTIAL PRESSURE SWITCH
DWDI	DOUBLE WIDTH DOUBLE INLET
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWSI	DOUBLE WIDTH SINGLE INLET
DX	DIRECT EXPANSION
EA	EACH
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECUH	ELECTRIC CABINET UNIT HEATER
EDH	ELECTRIC DUCT HEATER
EEW	EMERGENCY EYE WASH
EF	EXHAUST AIR FAN
EFF	EFFICIENCY
EG	EXHAUST AIR GRILLE
EJDIS	EJECTOR DISCHARGE
ELEC	ELECTRICAL
ELEV	ELEVATION
EMCS	ENERGY MANAGEMENT AND CONTROL SYSTEM
ENT	ENTERING
EP	ELECTRO-PNEUMATIC SWITCH
EQUIP	EQUIPMENT

ABBREVIATIONS - MECHANICAL

ERV	ENERGY RECOVERY VENTILATOR
ESH	EMERGENCY SHOWER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EW	EMERGENCY EYE FACE WASH
EWSH	EMERGENCY EYE WASH AND SHOWER STATION
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
F	FAN
FA	FROM ABOVE
FAS	FIRE ALARM SENSOR
FB	FROM BELOW
FC	FORWARD CURVED
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FCV	FLOW CONTROL VALVE
FD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFD	FUNNEL FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FFH	FORCED FLOW HEATER
FHC	FIRE HOSE CABINET
FLEX	FLEXIBLE
FLR	FLOOR
FLTR	FILTER
FP	FIRE PROTECTION
FPB	FAN POWERED BOX
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FPHB	FROST PROOF HOSE BIBB
FPWS	FROST PROOF WALL HYDRANT
FS	FLOW SWITCH
FSD	FIRE & SMOKE DAMPER
FSU	FIRE SUPPRESSION UNIT
FEET	FEET
FT/SEC	FEET PER SECOND
FTR	FINNED TUBE RADIATION
FU	FIXTURE UNIT
FURN	FURNANCE
FVC	FIRE VALVE CABINET
G	GAS
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GD	GARBAGE DISPOSAL
GM	GAS METER
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GW	GREY WATER
H	HEIGHT
H	HUMIDIFIER
HB	HOSE BIBB CONNECTION WITH CHAINED CAP
HC	HEATING COIL
HD	HEAD
HD	HUB DRAIN
HP	HORSEPOWER
HP	HEAT PUMP
HR	HOUR
HRCH	HEAT RECOVERY CHILLER
HRV	HEAT RECOVERY VENTILATOR
HU	HUMIDISTAT
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
ID	INSIDE DIAMETER
IM	ICE MAKER
IMWB	ICE MAKER WALL BOX
IN	INCHES
INSUL	INSULATION
INV	INVERT
IW	INDIRECT WASTE
JS	JANITOR SINK
KPH	KILOMETER PER HOUR
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
L	LENGTH
L	LITRES
L	LAVATORY
L/s	LITRES PER SECOND
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LD	LINEAR DIFFUSER
LF	LINEAR FEET
LPH	LITRES PER HOUR
LPS	LITRES PER SECOND
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
M	METER
M	ONE THOUSAND
MAU	MAKEUP AIR UNIT
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MCD	MOTORIZED CONTROL DAMPER
MD	MANUAL DAMPER
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MAN HOLE
MIN	MINIMUM
ML	MILLILITRE
MM	MILLIMETER
MS	MOP SINK

ABBREVIATIONS - MECHANICAL

MTD	MOUNTED
MU	MAKEUP WATER
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NFHB	NON FREEZE HOSE BIBB
NFWH	NON FREEZE WALL HYDRANT
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OB	OCTAVE BAND
OBD	OPPOSED BLADE DAMPER
OFD	OVERFLOW DRAIN
OD	OUTSIDE DIAMETER
OD	OUTSIDE DIAMETER
ODP	OPEN DRIP PROOF
OED	OPEN END DUCT
OV	OUTLET VELOCITY
P	PUMP
PAC	PRE-ACTION CABINET
PACP	PRE-ACTION CONTROL PANEL
PCF	POUNDS PER CUBIC FOOT
PCHWR	PRIMARY CHILLED WATER RETURN
PCHWS	PRIMARY CHILLED WATER SUPPLY
PD	PRESSURE DROP
PH	PHASE
PHC	PREHEAT COIL
PHX	PLATE HEAT EXCHANGER
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RD	ROOF DRAIN
REQD	REQUIRED
RET	RETURN
RF	RETURN AIR FAN
RG	RETURN AIR GRILLE
RH	RELATIVE HUMIDITY
RH	REHEAT COIL
RLF	RELIEF
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RPZA	REDUCED PRESSURE ZONE ASSEMBLIES
RR	RETURN AIR REGISTER
RTU	ROOF TOP UNIT
RWL	RAIN WATER LEADER
S	SINK
SA	SUPPLY AIR
SAN	SANITARY PIPE
SATT	SOUND ATTENUATOR
SCHWR	SECONDARY CHILLED WATER RETURN
SCHWS	SECONDARY CHILLED WATER SUPPLY
SCR	SCREEN
SD	SMOKE DAMPER
SD	SCUPPER DRAIN
SEA	SANITARY EXHAUST AIR
SEF	SMOKE EXHAUST FAN
SF	SUPPLY AIR FAN
SH	SHOWER
SL	SILENCER
SP	STATIC PRESSURE
SP	SUMP PUMP
SPECS	SPECIFICATIONS
SQ	SQUARE
SQFT	SQUARE FEET
SR	SUPPLY AIR REGISTER
SRV	SAFETY RELIEF VALVE
SS	STAINLESS STEEL
SS	SERVICE SINK
SST	SOIL STACK
ST	STORM PIPE
STD	STANDARD
STDBY	STANDBY
STV	STACK VENT
SUP	SUPPLY
SV	SUPERVISED VALVE
SWDI	SINGLE WIDTH DOUBLE INLET
SWSI	SINGLE WIDTH SINGLE INLET
TA	TRANSFER AIR
TA	TO ABOVE
TAD	TRANSFER AIR DUCT
TB	TO BELOW
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
U	URINAL
U/C	UNDER CUT
UH	UNIT HEATER
UP	UP (PENETRATES FLOOR SLAB)
V	VENT PIPE
VAV	VARIABLE VOLUME BOX
VB	VACUUM BREAKER
VD	VOLUME DAMPER
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VSD	VARIABLE SPEED DRIVE

ABBREVIATIONS - MECHANICAL

VST	VENT STACK
VTR	VENT THROUGH ROOF
VVE	VARIABLE VOLUME EXHAUST BOX
W	WIDTH
W&V	WASTE & VENT
W	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WALL FIN
WFS	WATER FLOW SWITCH
WG	WATER GUAGE
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR
WM	WATER METER
WMS	WIRE MESH SCREEN
WPAV	WET PIPE ALARM VALVE
WS	WATER SOFTENER
WST	WASTE STACK
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING
(ER)	EXISTING TO BE REMOVED
(N)	NEW
(R)	EXISTING TO BE RELOCATED
(RE)	RELOCATED EXISTING

GENERAL NOTES

A. At the time of rough installation and during storage on the construction site until the final startup of the heating cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal, or other methods acceptable to the enforcing agency to reduce the amount of dust, water or debris which may enter the system (Cal Green 5.504.3). Note to be added to the plan.

B. Ductwork shall be leak tested in accordance with SMACNA HVAC air duct leakage test manual SEC.603.10.1.

C. Wrap concealed ducts with fiberglass duct insulation wrap (all supply ducts to have a vapor barrier), all new supply and return duct insulation within the building to have a minimum 8.0 R-value.

D. Manual volume dampers shall be provided in all duct branches to individual boxes, diffusers, grilles, and registers and shall be locked in the final position after the completion of the air balance.

DATE	ISSUED FOR	REV
2026/04/24	100% CD	1
2026/05/28	PERMIT	2

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Project Component

Key Plan

Consultants

Survey:	
Civil:	
Architecture:	
Mechanical:	NORR
Electrical:	
Interiors:	
Landscape:	

Seal(s)



Date Signed: May 28, 2026

NORR

2020 I Street, Suite 220
Sacramento, CA, US 95811
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Project Manager	Drawn
M. NOVAK	JL
Project Leader	Checked
J. PRICE	BMS

Client
MAMMOTH YOSEMITE AIRPORT

Project
MAMMOTH SRE BUILDING

MAMMOTH, CA
Drawing Title
MECHANICAL NOTES AND LEGEND

Scale
12" = 1'-0"

Project No.
IN2024-0022

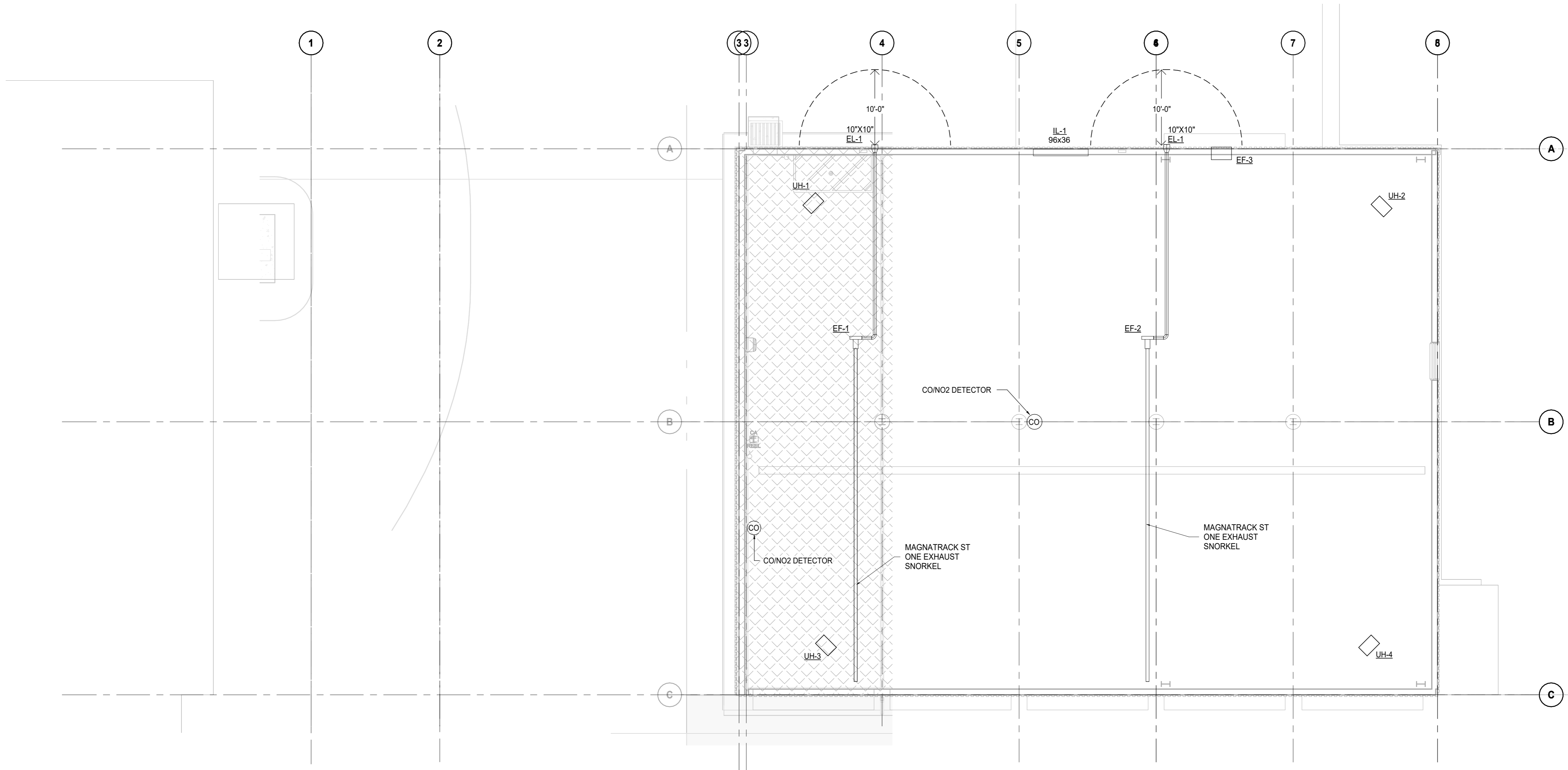
Drawing No.
M01-001

SHEET LIST INDEX	
M01-001A	MECHANICAL NOTES AND LEGEND
M02-001	MECHANICAL FLOOR PLAN
M03-001A	MECHANICAL SCHEDULES AND DETAILS
P01-001	PLUMBING NOTES AND LEGEND
P02-001	PLUMBING FLOOR PLAN - CW, HW AND GAS
P02-002	PLUMBING FLOOR PLAN - SS AND V
P04-001A	PLUMBING SCHEDULES

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1 OVERALL HVAC PLAN - LEVEL 1
SCALE: 1/8" = 1'-0"



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2026/05/28	PERMIT	1

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Seal(s)



Date Signed:
May 28, 2026

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Project Manager M. NOVAK	Drawn JL
Project Leader J. PRICE	Checked BMS

Client
MAMMOTH YOSEMITE AIRPORT

Project
MAMMOTH SRE BUILDING

MAMMOTH, CA
Drawing Title
MECHANICAL FLOOR PLAN

Scale
1/8" = 1'-0"

Project No.
IN2024-0022

Drawing No.
M02-001

LOUVER SCHEDULE				
TAG	MANUFACTURER	MODEL NUMBER	SIZE	
IL-1	RUSKIN	ELF375DX	PER PLAN	ALUMINUM DRAINABLE INTAKE LOUVER. PROVIDE WITH GRAVITY BACKDRAFT DAMPERS
EL-1	RUSKIN	ELF375DX	PER PLAN	ALUMINUM DRAINABLE EXHAUST LOUVER. PROVIDE WITH GRAVITY BACKDRAFT DAMPERS
FINISH TO MATCH ADJACENT EXTERIOR WALL SURFACE. PROVIDE INTGRAL 1-1/2" FLANGE.				

UNIT HEATER SCHEDULE										
TAG	MANUFACTURER	MODEL NUMBER	SERVICE ROOM	BTU/HR INPUT	BTU/HR OUTPUT	ELECTRICAL VOLT PHASE	AMPS	HP	CFM	NOTES
UH - 1,2,3,4	REZNOR	UDXC-100	WAREHOUSE	100,000	87,500	120V/1PH	4.35	1/8	1650	
PROVIDE WITH FIELD INSTALLED ACCESSORIES FROM MANUFACTURER: VERTICAL DEFLECTOR BLADES, NATURAL GAS TO PROPANE CONVERSION KIT, SINGLE STAGE ROOM THERMOSTAT, CONDENSATE PUMP, CONDENSATE PUMP SUSPENSION KIT, CONDENSATE PH NEUTRALIZING KIT, HORIZONTAL CONCENTRIC VENT KIT. PROVIDE AND INSTALL ON CONTRACTOR-SUPPLIED THREADED ROD SUSPENSION WITH DIAGONAL BRACING.										

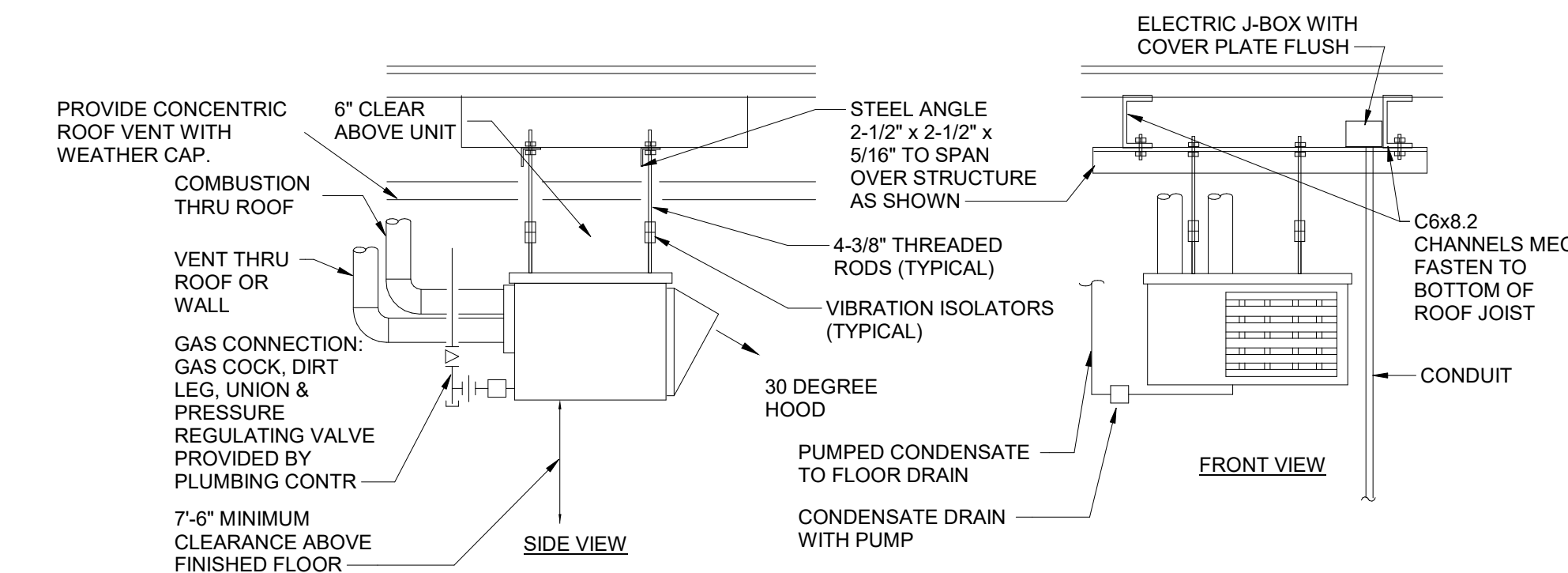
GAS DETECTION MONITOR SCHEDULE					
EQUIPMENT TAG	AREA SERVED	ELECTRICAL VOLT	PART NUMBER	MODEL NUMBER	REMARKS
COINO2	VEHICLE BAYS	120	1	04652-0601-0000	GSM-60
NOTE: 1. ALL MODEL NUMBERS ARE ENMET UNLESS OTHERWISE NOTED. 2. INCLUDES: INSTRUMENT WITH CO AND NO2 SENSORS, WALL MOUNTED ENCLOSURE, LCD DIGITAL DISPLAY, AUDIBLE AND VISUAL ALARMS, INTERNAL MOTORIZED SAMPLE PUMP WITH FLOW SWITCH AND ALARMS, AUXILIARY RELAYS, PARTICLE FILTER, INLET AND OUTLET PORTS, 4-20ma OUTPUT SENSOR.					

MECHANICAL VENTILATION TABLE REFERENCE FROM CEN TABLE 120.1-A				
ROOM NUMBER	ROOM NAME	AREA	OUTDOOR AIR RATE	REQUIRED OUTDOOR AIRFLOW
ROOM 06	SRE GARAGE	6428	0.15	(6428x 0.15) = 965

VEHICLE EXHAUST SNORKEL FAN SCHEDULE									
EQUIPMENT TAG	MANUFACTURER	MODEL #	CFM	ESP (IN.)	SERVICE ROOM	ELECTRICAL VOLT PHASE	HP	WEIGHT	NOTES
EF-1	NEDERMAN	N24 #14510122	883	-	SRE GARAGE	208V/1PH	1	37	SEE VE SCHEDULE
EF-2	NEDERMAN	N24 #14510122	883	-	SRE GARAGE	208V/1PH	1	37	SEE VE SCHEDULE
PROVIDE WITH: GRAVITY BACKDRAFT DAMPER.									

VEHICLE EXHAUST EXTRACTION SCHEDULE									
TAG	EXHAUST RAIL		MAX EXHAUST TEMP	ELECTRICAL			MODEL NUMBER	ACCESSORIES	
	LENGTH (FT)	CAPACITY # VEHICLE		VOLT	PHASE	AMP			
EF-1	-	-	-	208	3	16.7	5.5	SUPPORT RAIL	
EF-2	-	-	-	208	3	16.7	5.5	SUPPORT RAIL	
NOTE: 1. ALL MODEL NUMBERS ARE NEDERMAN UNLESS OTHERWISE NOTED. 2. INCLUDES COMPLETE SYSTEM INCLUDING: HB NOZZLES, OUTLET CONNECTION, RADIO RECEIVER AND TRANSMITTER, EXHAUST FAN WITH VFD.									

EXHAUST FAN SCHEDULE									
EQUIPMENT TAG	MANUFACTURER	MODEL #	CFM	ESP (IN.)	SERVICE ROOM	ELECTRICAL VOLT PHASE	HP	WEIGHT	NOTES
EF-3	GREENHECK	SBE-1H24	965	-	SRE GARAGE	208V/3PH	1/4	65	



2 GAS FIXED UNIT HEATER
M03-001A SCALE: 1/8" = 1'-0"

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Project Component

Key Plan

Consultants
Survey:
Civil:
Architecture:
Structural: NORR
Electrical:
Interiors:
Landscape:

Seal(s)

Date Signed: Apr. 24, 2026

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Project Manager M. NOVAK	Drawn JL
Project Leader J. PRICE	Checked BMS

Client
MAMMOTH YOSEMITE AIRPORT

Project
MAMMOTH SRE BUILDING

MAMMOTH, CA
Drawing Title
MECHANICAL SCHEDULES AND DETAILS

Scale
As indicated

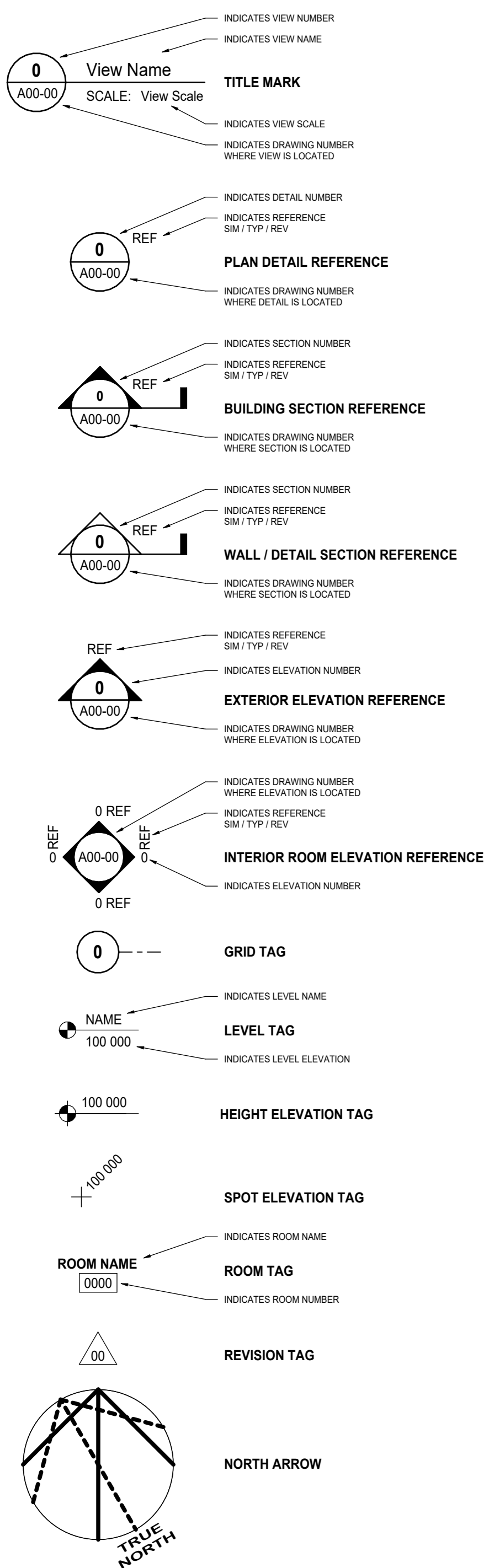
Project No.
IN2024-0022

Drawing No.
M03-001A

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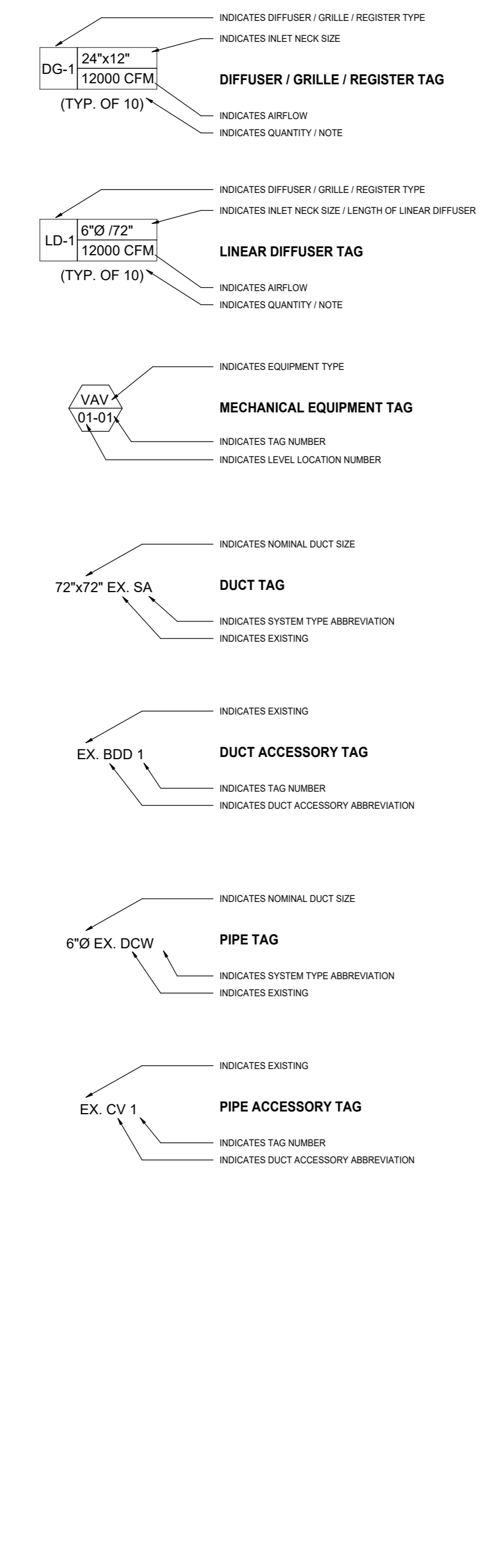
SYMBOL LEGEND

ANNOTATION SYMBOLS



MECHANICAL TAG LEGEND

MECHANICAL TAG SYMBOLS



ABBREVIATIONS - MECHANICAL

Table of mechanical abbreviations including AAV (Automatic Air Vent), AC (Air Conditioning Unit), ACC (Air Cooled Chiller), ACD (Automatic Control Damper), AD (Access Door), AD (Area Drain), AFF (Above Finished Floor), AFG (Above Finished Grade), AFMS (Airflow Measuring Station), AHU (Air Handling Unit), AI (Analog Input), ALD (Acoustically Lined Ductwork), AO (Analog Output), AP (Access Panel), ARCH (Architect), AS (Air Separator), ATC (Automatic Temperature Control), ATD (Air Terminal Device), AVC (Automatic Control Valve), AVG (Average), AVS (Air Volume Traverse Station), AW (Air Waste), B (Boiler), BT (Bath Tub), BAS (Building Automatic System), BBH (Base Board Heater), BD (Balancing Damper), BD (Bidet), BDD (Back Draft Damper), BFF (Below Finished Floor), BFL (Bottle Filler), BFP (Back Flow Preventor), BHP (Break Horsepower), BI (Backward Inclined Building), BLDG (Building), BOD (Bottom of Duct), BOP (Bottom of Pipe), BPB (Bypass Box), BSMT (Basement), BTU (British Thermal Unit), BTUH (British Thermal Unit Per Hour), BWV (Backwater Valve), CBW (Complete With), CB (Chilled Beam), CB (Catch Basin), CBV (Circuit Balancing Valve), CC (Cooling Coil), CCT (Condensate Cooler Tank), CF (Ceiling Fan), CFM (Cubic Feet Per Minute), CH (Chiller), CHW (Chilled Water), CHWR (Chilled Water Return), CHWS (Chilled Water Supply), CL (Centerline), CLAP (Clean Agent Panel), CLG (Ceiling), CO (Cleanout), COL (Column), CONC (Concrete), CONTR (Contractor), CORR (Corridor), CR (Cooling Water Return), CRAC (Computer Room Air Conditioner), CS (Cooling Water Supply), CT (Cooling Tower), CTBD (Cooling Tower Blow Down), CTE (Connect to Existing), CTK (Compression Tank), CU (Condensing Unit), CUF (Cubic Feet), CUH (Cabinet Unit Heater), CWR (Condenser Water Return), CWS (Condenser Water Supply), D (Drain), DB (Dry Bulb Temperature), DB (Drain Box), DC (Dry Cooler), DCV (Demand Control Ventilation), DCVA (Double Check Valve Assembly), DCW (Domestic Cold Water), DDC (Direct Digital Control), DF (Drinking Fountain), DG (Door Grille), DH (Duct Heater), DHW (Domestic Hot Water), DHWR (Domestic Hot Water Recirculation), DI (Digital Input), DIA (Diameter), DIM (Dimension), DN (Down (Penetrates Floor Slab)), DO (Digital Output), DOV (Drain Off Valve), DPAV (Dry Pipe Alarm Valve), DPS (Differential Pressure Switch), DWDI (Double Width Double Inlet), DWG (Drawing), DWH (Domestic Water Heater), DWSI (Double Width Single Inlet), DX (Direct Expansion), EA (Each), EA (Exhaust Air), EAT (Entering Air Temperature), ECUH (Electric Cabinet Unit Heater), EDH (Electric Duct Heater), EEW (Emergency Eye Wash), EF (Exhaust Air Fan), EFF (Efficiency), EG (Exhaust Air Grille), EJDIS (Ejector Discharge), ELEC (Electrical), ELEV (Elevation), EMCS (Energy Management and Control System), ENT (Entering), EP (Electro-Pneumatic Switch), EQUIP (Equipment).

ABBREVIATIONS - MECHANICAL

Table of mechanical abbreviations including ERV (Energy Recovery Ventilator), ESH (Emergency Shower), ESP (External Static Pressure), ET (Expansion Tank), EUH (Electric Unit Heater), EWC (Electric Water Cooler), EWF (Emergency Eye Face Wash), EWSH (Emergency Eye Wash and Shower Station), EWT (Entering Water Temperature), EXH (Exhaust), F (Fan), FA (From Above), FAS (Fire Alarm Sensor), FB (From Below), FC (Forward Curved), FCO (Floor Cleanout), FCU (Fan Coil Unit), FCV (Flow Control Valve), FD (Fire Damper), FDC (Fire Department Connection), FE (Fire Extinguisher), FEC (Fire Extinguisher Cabinet), FFD (Funnel Floor Drain), FFE (Finished Floor Elevation), FFH (Forced Flow Heater), FHC (Fire Hose Cabinet), FLEX (Flexible), FLR (Floor), FLTR (Filter), FP (Fire Protection), FPB (Fan Powered Box), FPI (Fins Per Inch), FPM (Feet Per Minute), FPHB (Frost Proof Hose Bibb), FPWS (Frost Proof Wall Hydrant), FS (Flow Switch), FSD (Fire & Smoke Damper), FSU (Fire Suppression Unit), FT (Feet), FT/SEC (Feet Per Second), FTR (Finned Tube Radiation), FU (Fixture Unit), FURN (Furnance), FVC (Fire Valve Cabinet), G (Gas), GAL (Gallons), GALV (Galvanized), GC (General Contractor), GD (Garbage Disposal), GM (Gas Meter), GPH (Gallons Per Hour), GPM (Gallons Per Minute), GW (Grey Water), H (Height), H (Humidifier), HB (Hose Bibb Connection with Chained Cap), HC (Heating Coil), HD (Head), HD (Hub Drain), HP (Horsepower), HP (Heat Pump), HR (Hour), HRCH (Heat Recovery Chiller), HRV (Heat Recovery Ventilator), HU (Humidistat), HW (Hot Water), HWR (Hot Water Return), HWS (Hot Water Supply), HX (Heat Exchanger), HZ (HERTZ), ID (Inside Diameter), IM (Ice Maker), IMWB (Ice Maker Wall Box), IN (Inches), INSUL (Insulation), INV (Invert), IW (Indirect Waste), JS (Janitor Sink), KPH (Kilometer Per Hour), KVA (Kilovolt Ampere), KW (Kilowatt), KWH (Kilowatt Hour), L (Length), L (Litres), L (Lavatory), L/s (Litres Per Second), LAT (Leaving Air Temperature), LB (Pound), LD (Linear Diffuser), LF (Linear Feet), LPH (Litres Per Hour), LPS (Litres Per Second), LVG (Leaving), LWT (Leaving Water Temperature), M (Meter), M (One Thousand), MAU (Makeup Air Unit), MAV (Manual Air Vent), MAX (Maximum), MBH (Thousand British Thermal Units Per Hour), MCA (Minimum Circuit Amps), MCC (Motor Control Center), MCD (Motorized Control Damper), MD (Manual Damper), MECH (Mechanical), MEZZ (Mezzanine), MFR (Manufacturer), MH (Man Hole), MIN (Minimum), MIL (Milliliter), MM (Millimeter), MS (Mop Sink).

ABBREVIATIONS - MECHANICAL

Table of mechanical abbreviations including MTD (Mounted), MU (Makeup Water), N/A (Not Applicable), NC (Noise Criteria), NC (Normally Closed), NFHB (Non Freeze Hose Bibb), NFHW (Non Freeze Wall Hydrant), NG (Natural Gas), NIC (Not in Contract), NO (Normally Open), NOM (Nominal), NPSH (Net Positive Suction Head), NTS (Not to Scale), OA (Outside Air), OB (Octave Band), OBD (Opposed Blade Damper), OFD (Overflow Drain), OD (Outside Diameter), OD (Outside Diameter), ODP (Open Drift Proof), OED (Open End Duct), OV (Outlet Velocity), P (Pump), PAC (Pre-Action Cabinet), PACP (Pre-Action Control Panel), PCF (Pounds Per Cubic Foot), PCHWR (Primary Chilled Water Return), PCHWS (Primary Chilled Water Supply), PD (Pressure Drop), PH (Phase), PHC (Preheat Coil), PHX (Plate Heat Exchanger), PLBG (Plumbing), PRESS (Pressure), PRV (Pressure Reducing Valve), PSIA (Pounds Per Square Inch Absolute), PSIG (Pounds Per Square Inch Gauge), PVC (Polyvinyl Chloride), RA (Return Air), RD (Roof Drain), REQD (Required), RET (Return), RF (Return Air Fan), RG (Return Air Grille), RH (Relative Humidity), RH (Reheat Coil), RLF (Relief), RM (Room), RPM (Revolutions Per Minute), RPZA (Reduced Pressure Zone Assemblies), RR (Return Air Register), RTU (Roof Top Unit), RWL (Rain Water Leader), S (Sink), SA (Supply Air), SAN (Sanitary Pipe), SATT (Sound Attenuator), SCHWR (Secondary Chilled Water Return), SCHWS (Secondary Chilled Water Supply), SCR (Screen), SD (Smoke Damper), SD (Scupper Drain), SEA (Sanitary Exhaust Air), SEF (Smoke Exhaust Fan), SF (Supply Air Fan), SH (Shower), SL (SILENCER), SP (Static Pressure), SP (Sump Pump), SPECS (Specifications), SQ (Square), SQFT (Square Feet), SR (Supply Air Register), SRV (Safety Relief Valve), SS (Stainless Steel), SS (Service Sink), SST (Soil Stack), ST (Storm Pipe), STD (Standard), STDBY (Standby), STV (Stack Vent), SUP (Supply), SV (Supervised Valve), SWDI (Single Width Double Inlet), SWSI (Single Width Single Inlet), TA (Transfer Air), TA (To Above), TAD (Transfer Air Duct), TB (To Below), TD (Trench Drain), TEMP (Temperature), TMV (Thermostatic Mixing Valve), TOD (Top of Duct), TOP (Top of Pipe), TSP (Total Static Pressure), TYP (Typical), U (Urinal), U/C (Under Cut), UH (Unit Heater), UP (Penetrates Floor Slab), V (Vent Pipe), VAV (Variable Volume Box), VB (Vacuum Breaker), VD (Volume Damper), VEL (Velocity), VFD (Variable Frequency Drive), VIF (Verify in Field), VSD (Variable Speed Drive).

ABBREVIATIONS - MECHANICAL

Table of mechanical abbreviations including VST (Vent Stack), VTR (Vent Through Roof), VVE (Variable Volume Exhaust Box), W (Width), W&V (Waste & Vent), W/ (With), W/O (Without), WB (Wet Bulb Temperature), WC (Water Closet), WCO (Wall Cleanout), WF (Wall Fin), WFS (Water Flow Switch), WG (Water Gauge), WH (Water Heater), WHA (Water Hammer Arrestor), WM (Water Meter), WMS (Wire Mesh Screen), WPAV (Wet Pipe Alarm Valve), WS (Water Softener), WST (Waste Stack), (D) (Existing to be Demolished), (E) (Existing), (ER) (Existing to be Removed), (N) (New), (R) (Existing to be Relocated), (RE) (Relocated Existing), GENERAL NOTES, A. New or repaired potable water systems shall be disinfected before use where required by the Authority Having Jurisdiction. The method to be followed shall be that prescribed by the Health Authority or as prescribed by CPC 609.10(1) through (4). B. The domestic water pipe shall be tested per CPC 609.4. Drainage and vent pipe shall be tested per CPC 712.0 and bleeding sewer per CPC 723.0. C. All domestic hot water piping shall be insulated as specified in section 609.12 of the California plumbing code and California energy code sections 150.0(J)2 AND 120.3(C). D. The building sewer shall be landed in a firm bed of approved materials. Sands preferred CPC804.1.

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Project Component

Key Plan

Consultants
Survey:
Civil:
Architecture:
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Electrical:
Interiors:
Landscape:

Seal(s)

Date Signed: May 28, 2026

NORR
2020 I Street, Suite 220
Sacramento, CA, US 95811
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Project Manager M. NOVAK	Drawn JL
Project Leader J. PRICE	Checked BMS

Client
MAMMOTH YOSEMITE AIRPORT

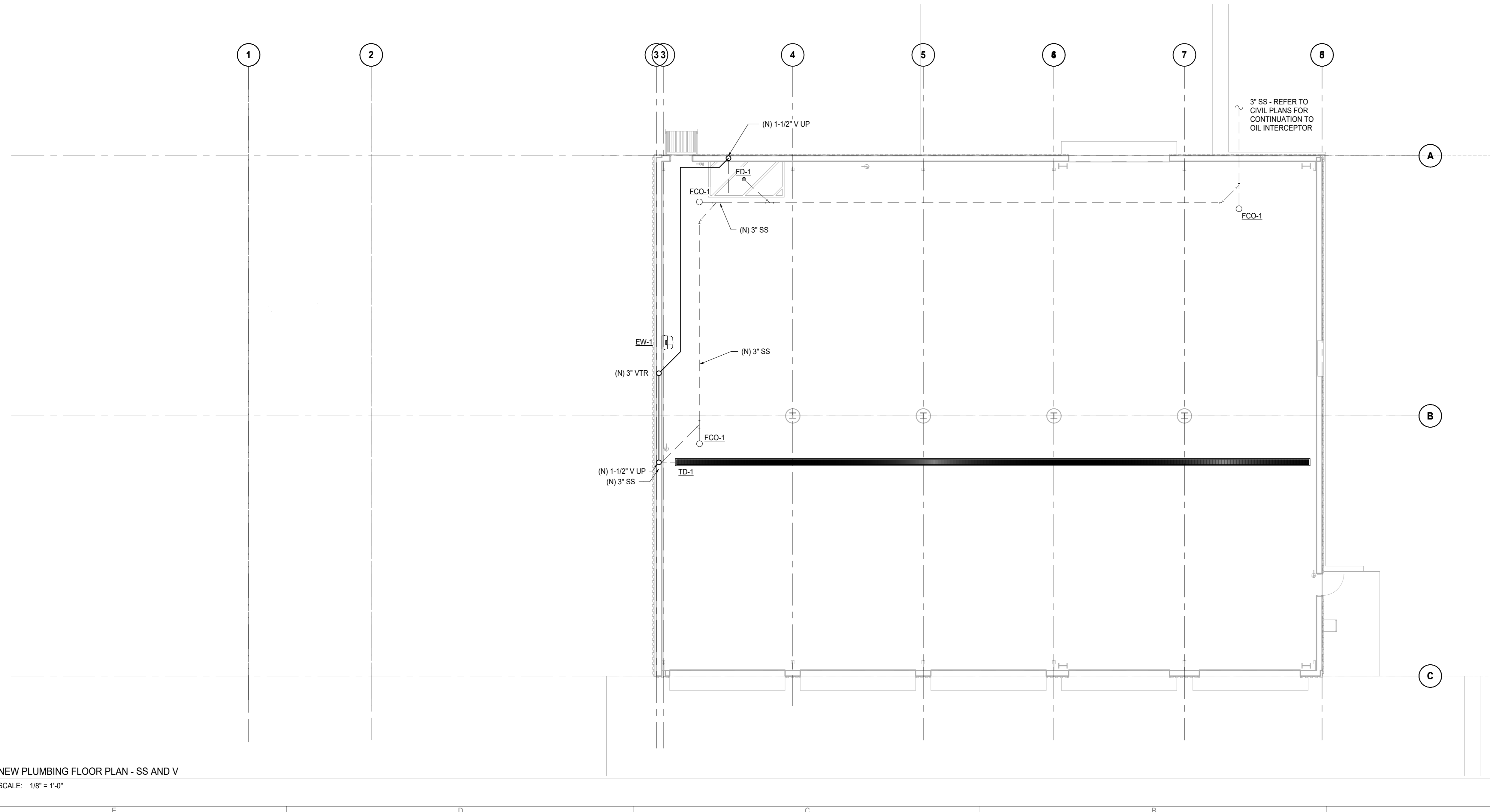
Project
MAMMOTH SRE BUILDING

MAMMOTH, CA
Drawing Title
PLUMBING NOTES & LEGENDS

Scale
12" = 1'-0"

Project No.
IN2024-0022

Drawing No.
P01-001



GENERAL NOTES

A. All horizontal drainage piping shall slope not less than 1/4 of an inch per foot (2%). Piping 4 inches or larger may be sloped not less than 1/8 of an inch (1%) where first approved by the AHJ. CPC 708.1.

1 NEW PLUMBING FLOOR PLAN - SS AND V
SCALE: 1/8" = 1'-0"

DATE	ISSUED FOR	REV
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Date Signed: May 28, 2026



2020 I Street, Suite 220
Sacramento, CA, US 95811
norr.com

Project Manager M. NOVAK	Drawn JL
Project Leader J. PRICE	Checked BMS

Client
MAMMOTH YOSEMITE AIRPORT

Project
MAMMOTH SRE BUILDING

MAMMOTH, CA
Drawing Title
PLUMBING FLOOR PLAN - SS AND V

Scale
1/8" = 1'-0"

Project No.
IN2024-0022

Drawing No.
P02-002

PLUMBING FIXTURE SCHEDULE		
TAG	MANUFACTURER	REMARKS AND SPECIFICATIONS
EW-1	GUARDIAN EQUIPMENT	MODEL HG1540 SELF-CONTAINED PORTABLE EYEWASH STATION, 16 GALLON CAPACITY WITH WALL MOUNT BRACKET.
FD-1	J.R. SMITH	FLOOR DRAIN MODEL: 2005Y-A. DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE STRAINER AND ROUND TOP.
WCO-1	J.R. SMITH	WALL CLEAN OUT: MODEL 4420 TAPER THREAD LUG WITH ROUND COVER.
TD-1	ZURN	MODEL: ZF806-8DC. DRAIN GRATE TYPE: CLASS C DUCTILE IRON

PLUMBING FIXTURE CONNECTION SIZE SCHEDULE						
TAG	FIXTURE TYPE	LINE SIZES				
		WASTE	TRAP	VENT	COLD	HOT
S-1	LAUNDRY SINK	2"	1/2"	1/2"	1/2"	1/2"
EW-1	EYE WASH	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"
FD-1	FLOOR DRAIN	2"	1/2"	1/2"	-	-

DRAINAGE FIXTURE UNIT			
NO. FIXTURES	FIXTURE TYPE	FU/FIX	TOTAL F.U.
1	TRENCH DRAIN	2	2
1	FLOOR DRAIN	6	6
TOTAL			8

PIPING MATERIALS	
SANITARY SEWER PIPING, ABOVE GRADE	CAST IRON OR SCHEDULE 40 ABS/PVC
SANITARY SEWER AND VENT PIPING, BELOW GRADE	SCHEDULE 40 PVC
VENT PIPING, ABOVE GRADE	CAST IRON OR SCHEDULE 40 ABS/PVC
DOMESTIC HOT AND COLD WATER PIPING, ABOVE GRADE	RIGID COPPER TYPE L
DOMESTIC HOT AND COLD WATER PIPING BELOW GRADE	SCHEDULE 40 PVC
INDIRECT WASTE PIPING	RIGID COPPER TYPE M

DATE	ISSUED FOR	REV
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This drawing has been prepared solely for the use of MAMMOTH YOSEMITE AIRPORT and there are no representations of any kind made by

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer

Project Component

Key Plan

Consultants
 Survey:
 Civil:
 Architecture:
 Structural: NORR
 Electrical:
 Interiors:
 Landscape:

3

Seal(s)



NORR

2

NORR OFFICE ADDRESS

 2020 I Street, Suite 220
 Sacramento, CA, US 95811
 norr.com

Project Manager M. NOVAK	Drawn JL
Project Leader J. PRICE	Checked BMS

Client
MAMMOTH YOSEMITE AIRPORT

Project
MAMMOTH SRE BUILDING

MAMMOTH, CA
 Drawing Title
PLUMBING SCHEDULES

1

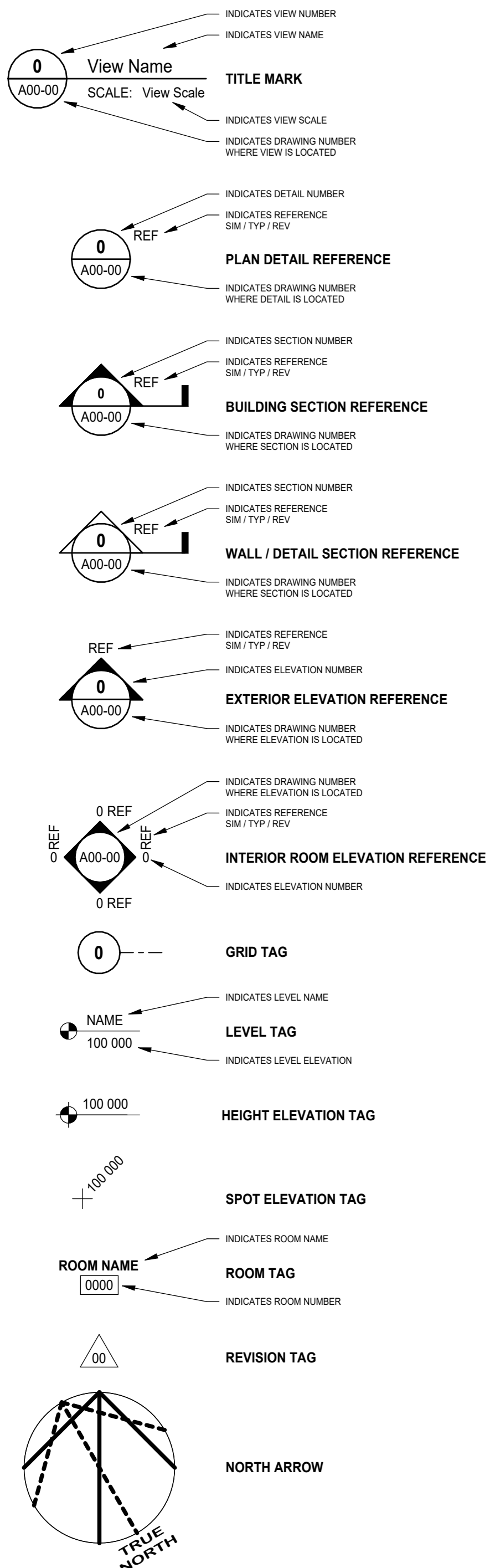
Scale

Project No.
IN2024-0022

Drawing No.
P04-001A

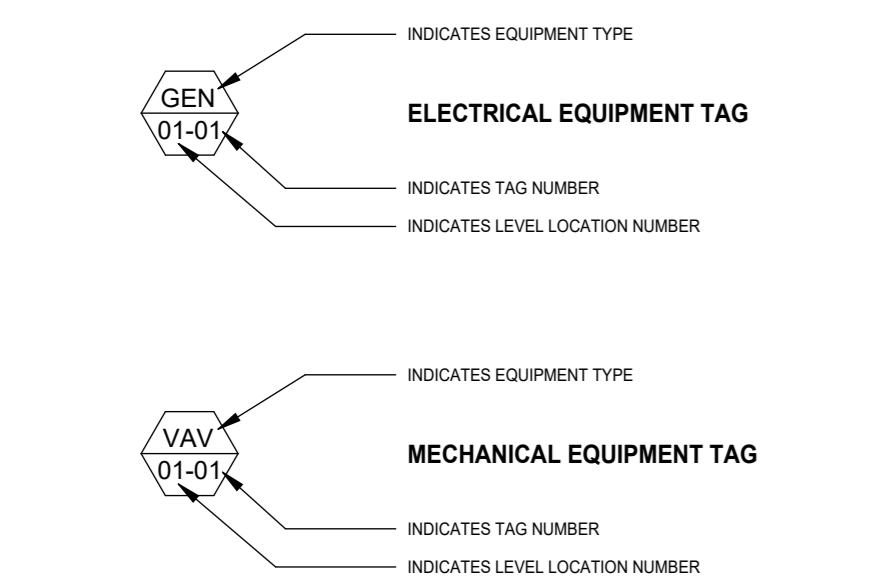
SYMBOL LEGEND

ANNOTATION SYMBOLS



SYMBOL LEGEND

ELECTRICAL TAG ANNOTATION SYMBOLS



ABBREVIATIONS - ELECTRICAL

A	AMPERE
AC	ABOVE COUNTER
ACT	ALTERNATING CURRENT, ARMOR-CLAD
ADD	ADDENDUM
AF	AMPERES, FRAME (BREAKER RATING)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AG	ABOVE GROUND
AIC	AMPERE INTERRUPTING SHORT CIRCUIT CURRENT
AL	ALUMINUM
AM	AMMETER
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AS	AMMETER SWITCH
ASR	AUTOMATIC SPRINKLER RISER
AT	AMPERE TRIP (BREAKER SETTING)
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AV	AUDIO-VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BC	BOTTOM CHORD
BD	BUS DUCT
BLDG	BUILDING
C	CONDUIT
CAS	CONTROLLED ACCESS SYSTEM
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CCT	CIRCUIT
CLF	CURRENT LIMITING FUSE
CLG	CEILING
COAX	COAXIAL CABLE
COL	COLUMN
CONT	CONTINUATION (CONTINUOUS)
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
CTB	CURRENT TEST BLOCK
CU	COPPER
DC	DIRECT CURRENT
DEG	DEGREE
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DISC	DISCONNECT
DN	DOWN
DT	DOUBLE THROW
DWG	DRAWING
EA	EACH
EDP	EMERGENCY POWER DISTRIBUTION PANEL
EF	EXHAUST FAN
EL	ELEVATION
ELEC	ELECTRIC (ELECTRICAL)
ELP	EMERGENCY LIGHTING PANEL
ELR	END-OF-LINE RESISTOR
EM	EMERGENCY
EMCC	EMERGENCY MOTOR CONTROL CENTER
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EQPT	EQUIPMENT
ERP	EMERGENCY RECEPTACLE PANEL
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FB	FLOOR BOX (AT JB)
FDR	FEEDER
FIN	FINISH
FLR	FLOOR
FPT	FURNITURE POKE-THRU (AT JB)
FU	FUSE
FUT	FUTURE
FWB	FURNITURE WALL BOX (AT JB)
G	GROUND

ABBREVIATIONS - ELECTRICAL

GFB	GROUND FAULT BREAKER
GEN	GENERATOR
GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
HID	HIGH INTENSITY DISCHARGE
HOR	HORIZONTAL
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HT	HEIGHT
HTR	HEATER
HV	HIGH VOLTAGE
HVAC	HEATING VENTILATING AND AIR CONDITIONING
IAC	INTERLOCKING ARMOR CABLE
IC	INTERCOM
INC	INCANDESCENT, INCORPORATE
INV	INVERT ELEVATION
ISC	INTERRUPTING SHORT CIRCUIT CURRENT
ISN	ISOLATED NEUTRAL
JB	JUNCTION BOX
kcmil	THOUSAND CIRCULAR MIL(S) (MCM)
kV	KILOVOLT
kVA	KILOVOLT-AMPERES
kVAR	KILOVOLT-AMPERES REACTIVE
kW	KILOWATT
kWH	KILOWATT-HOUR
LA	LIGHTING ARRESTOR
LDP	LIGHTING DISTRIBUTION PANEL
LP	LIGHTING PANEL
LT	LIGHT
LTG	LIGHTING
LV	LOW VOLTAGE
M	METER
MA	MILLIAMPERE
MAX	MAXIMUM
MC	METAL-CLAD (CABLE)
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MEZZ	MEZZANINE
MFG	MANUFACTURING
MFR	MANUFACTURER
MH	MANHOLE, METAL HALIDE, MOUNTING HEIGHT
MIC	MICROPHONE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUG ONLY
MO	MOTOR OPERATED
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
N	NEUTRAL, NORMAL
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NF	NOT FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN, NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER-FURNISHED, CONTRACTOR-INSTALLED
OFF	OFFICE
OL	OVERLOAD
OPNG	OPENING
OS	OCCUPANCY SENSOR
P	POLE
PA	PUBLIC ADDRESS SYSTEM
PB	PULL BOX
PDP	POWER DISTRIBUTION PANEL

ABBREVIATIONS - ELECTRICAL

PF	POWER FACTOR
PH	PHASE
PIV	POST INDICATOR
PL	PILOT LIGHT
PLUMB	PLUMBING
PNL	PANEL
PP	POWER PANEL
PR	PAIR
PRI	PRIMARY
PS	PULL SWITCH
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
RC	REMOTE CONTROL
RCPT	RECEPTACLE
RMC	RIGID METAL CONDUIT
RP	RECEPTACLE PANEL
RSC	RIGID STEEL CONDUIT
SD	SMOKE DETECTOR
SEC	SECONDARY
SFB	SURFACE FLOOR BOX
SHLD	SHIELDED
SHT	SHEET
SIG	SIGNAL
SP	SINGLE POLE
SPEC	SPECIFICATION
SPKR	SPEAKER
SS	SECTION SWITCH
ST	SINGLE THROW
STP	SHIELDED TWISTED PAIR
STP/OS	SHIELDED TWISTED PAIR W/ OVERALL SHIELD
STRUCT	STRUCTURAL
SUBST	SUBSTATION
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYS	SYSTEM
T	THERMOSTAT
TB	THERMAL BREAKER
TEL	TELEPHONE
TL	TWIST LOCK
TOS	TOP OF STEEL
TRP	POWER FACTOR TRANSDUCER
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
UTP/OS	UNSHIELDED TWISTED PAIR W/ OVERALL SHIELD
V	VOLT OR VOLTAGE
VD	VOICE-DATA
VERT	VERTICAL
VIF	VERIFY IN FIELD
VM	VOLTMETER
VP	VAPOR PROOF
VS	VOLTMETER SWITCH
VTR	VOLTAGE TRANSDUCER
W	WATT
W/	WITH
W/O	WITHOUT
WH	WATT-HOUR METER
WHD	WATT-HOUR DEMAND METER
WP	WEATHER PROOF
WR	WELDING RECEPTACLE
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
(E)	EXISTING FIXTURE/EQUIPMENT TO REMAIN
(ER)	EXISTING FIXTURE/EQUIPMENT TO BE RELOCATED
(N)	NEW (DEVICE)
(R)	EXISTING FIXTURE/EQUIPMENT TO BE REMOVED
(RE)	RELOCATED EXISTING FIXTURE/EQUIPMENT

DRAWING LIST - ELECTRICAL

E01-01	DRAWING LIST & LEGENDS
E01-02	TITLE 24
E02-01	SITE PLAN
E03-01	SINGLE LINES
E10-01	LEVEL 1 OVERALL POWER PLAN
E20-01	LEVEL 1 OVERALL LIGHTING PLAN

DATE	ISSUED FOR	REV
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Project Component

Key Plan

Consultants
Survey:
Civil:
Architecture: NORR
Structural:
Mechanical: NORR
Electrical: NORR
Interiors:
Landscape:

Seal(s)

Project Manager	Drawn
	Author
Project Leader	Checked
	Checker

Client
MAMMOTH YOSEMITE AIRPORT

Project
MAMMOTH ARFF/SRF

MAMMOTH, CALIFORNIA
Drawing Title
DRAWING LIST & LEGENDS

Scale
12" = 1'-0"

Project No.
XXXX00-0000

Drawing No.
E01-01

STATE OF CALIFORNIA
Indoor Lighting
 CERTIFICATE OF COMPLIANCE
 CALIFORNIA ENERGY COMMISSION
 NRCC-LTI-E
 This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in §160.5, §170.2(e) and §180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.
 Project Name: Mammoth ARFF/SRF Phase 3 Report Page: (Page 1 of 7)
 Project Address: Mammoth ARFF/SRF Phase 3 Date Prepared: 2026-05-15T17:58:09-04:00

A. GENERAL INFORMATION				
01 Project Location (city)	Mammoth	04 Total Conditioned Floor Area (ft ²)	6,542	
02 Climate Zone	16	05 Total Unconditioned Floor Area (ft ²)	0	
03 Occupancy Types Within Project (select all that apply):	<input checked="" type="checkbox"/> Commercial Industrial <input type="checkbox"/> # of Stories (Habitable Above Grade) 1			

B. PROPOSE SCOPE				
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 / §170.2(e) or §141.0(b)2 / §180.2(b)4 for alterations.				
Scope of Work		Conditioned Spaces		Unconditioned Spaces
01	02	03	04	05
My Project Consists of (check all that apply):		Calculation Method	Area (ft ²)	Calculation Method
<input checked="" type="checkbox"/> New Lighting System		Area Category Method	6542	N/A
<input type="checkbox"/> New Lighting System - Parking Garage		N/A	0	N/A
Total Area of Work (ft ²)		6542		

Generated Date/Time: Documentation Software: Energy Code Ace
 CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance Report Version: 2025.0.000 Compliance ID: ECA-407054-0526-0001
 Schema Version: rev 20250101 Report Generated: 2026-05-15 14:58:13

STATE OF CALIFORNIA
Indoor Lighting
 CERTIFICATE OF COMPLIANCE
 CALIFORNIA ENERGY COMMISSION
 NRCC-LTI-E
 Project Name: Mammoth ARFF/SRF Phase 3 Report Page: (Page 4 of 7)
 Project Address: Mammoth ARFF/SRF Phase 3 Date Prepared: 2026-05-15T17:58:09-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)											
Area Level Controls											
04	05	06	07	08	09	10	11	12		Field Inspector	
Area Description	Complete Building or Area Category Primary Function Area	Manual Controls §130.1(a) / §160.5(b)4A	Multi-Level Controls §130.1(b) / §160.5(b)4B	Shut-Off Controls §130.1(c) // §160.5(b)4C	Primary/Sky lit Daylighting §130.1(d) / §160.5(b)4D	Secondary Daylighting §130.1(d) / §160.5(b)4D	Interlocked Systems §140.6(a)1 / §170.2(e)2A			Pass	Fail
SRFF	All Other Space Types	Readily Accessible and located in the same space.	NA: General Ltg <= 0.5W/SF	Auto. Time Switch	NA: Not daylight zone	NA: Not daylight zone	No			<input type="checkbox"/>	<input type="checkbox"/>
											13
Plan Sheet Showing Daylit Zones:											

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS						
Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.						
Conditioned Spaces						
01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category/PAF	PAF
SRFF	All Other Space Types	0.4	6,542	2,616.8	No	No
TOTALS:			6,542	2,616.8	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
 This section does not apply to this project.
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STATE OF CALIFORNIA
Indoor Lighting
 CERTIFICATE OF COMPLIANCE
 CALIFORNIA ENERGY COMMISSION
 NRCC-LTI-E
 Project Name: Mammoth ARFF/SRF Phase 3 Report Page: (Page 2 of 7)
 Project Address: Mammoth ARFF/SRF Phase 3 Date Prepared: 2026-05-15T17:58:09-04:00

C. COMPLIANCE RESULTS									
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.									
Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1 / §170.2(e)	Allowed Lighting Power per §140.6(b) / §170.2(e) (Watts)				Adjusted Lighting Power per §140.6(a) / §170.2(e) (Watts)			Compliance Results	
	01	02	03	04	05	06	07	08	
	Complete Building §140.6(c)1	Area Category §140.6(c)2 / §170.2(e)4	Area Category Additional §140.6(c)2G / §170.2(e)4Av (+)	Total Allowed (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 / §170.2(e)1B (-)	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 §140.6 / §170.2(e)	
(See Table I)	(See Table I)	(See Table J)	=	(See Table F)	(See Table P)	=	COMPLIES		
Conditioned	2,616.8		=	2,616.8	≥	816	0	=	816
Unconditioned			=		≥			=	
Controls Compliance (See Table H for Details) COMPLIES									
One-for-one Luminaire Alterations Compliance (See Table Q for Details) COMPLIES									

D. EXCEPTIONAL CONDITIONS
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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 CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance Report Version: 2025.0.000 Compliance ID: ECA-407054-0526-0001
 Schema Version: rev 20250101 Report Generated: 2026-05-15 14:58:13

STATE OF CALIFORNIA
Indoor Lighting
 CERTIFICATE OF COMPLIANCE
 CALIFORNIA ENERGY COMMISSION
 NRCC-LTI-E
 Project Name: Mammoth ARFF/SRF Phase 3 Report Page: (Page 5 of 7)
 Project Address: Mammoth ARFF/SRF Phase 3 Date Prepared: 2026-05-15T17:58:09-04:00

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
 This section does not apply to this project.

Q. ONE-FOR-ONE LUMINAIRE ALTERATIONS
 This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
 This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
 This section does not apply to this project.

T. DWELLING UNIT LIGHTING
 This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.
 Form/Title
 NRCC-LTI-E - Must be submitted for all buildings

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STATE OF CALIFORNIA
Indoor Lighting
 CERTIFICATE OF COMPLIANCE
 CALIFORNIA ENERGY COMMISSION
 NRCC-LTI-E
 Project Name: Mammoth ARFF/SRF Phase 3 Report Page: (Page 3 of 7)
 Project Address: Mammoth ARFF/SRF Phase 3 Date Prepared: 2026-05-15T17:58:09-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE									
This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T, using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.									
Designed Wattage: Conditioned Spaces									
01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change 1	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)13 / §170.2(e)2C	Design Watts	Field Inspector
B1	4' Strip	No	NA	34	Mfr. Spec	24	No	816	Pass Fail
Total Designed Watts: CONDITIONED SPACES								816	<input type="checkbox"/> <input type="checkbox"/>

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)14B / §170.2(e)2D is adjusted to be 75% / 80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
²Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per §130.0(c) / §160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
 This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)			
This table includes lighting controls for conditioned and unconditioned spaces.			
Building Level Controls			
01	02	03	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c) / §160.5(b)4C	Field Inspector	
NA < 4,000W subject to multilevel	Whole Building Auto Time Switch	Pass	Fail
		<input type="checkbox"/>	<input type="checkbox"/>

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 NRCC-LTI-E
 Project Name: Mammoth ARFF/SRF Phase 3 Report Page: (Page 6 of 7)
 Project Address: Mammoth ARFF/SRF Phase 3 Date Prepared: 2026-05-15T17:58:09-04:00

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>
 Form/Title
 NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. SRFF

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STATE OF CALIFORNIA
Indoor Lighting
 CERTIFICATE OF COMPLIANCE
 CALIFORNIA ENERGY COMMISSION
 NRCC-LTI-E
 Project Name: Mammoth ARFF/SRF Phase 3 Report Page: (Page 7 of 7)
 Project Address: Mammoth ARFF/SRF Phase 3 Date Prepared: 2026-05-15T17:58:09-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: Joseph Gluvers Documentation Author Signature: [Signature]
 Company: NORR Signature Date: 5/15/26
 Address: 2020 I St. Suite 200 CEAA/ECC Certification Identification (if applicable):
 City/State/Zip: Sacramento, CA 95811 Phone: 916-453-3812

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Person Name: Joseph Gluvers Responsible Person Signature: [Signature]
 Company: NORR Date Signed: 5/15/26
 Address: 2020 I St. Suite 200 License: E-20126
 City/State/Zip: Sacramento, CA 95811 Phone: 916-453-3812

Generated Date/Time: Documentation Software: Energy Code Ace
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DATE	ISSUED FOR	REV
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Project Component

Key Plan

Consultants
 Survey:
 Civil:
 Architecture: NORR
 Structural:
 Mechanical:
 Electrical: NORR
 Interiors:
 Landscape:



NORR
 The Cannery
 1631 Alhambra Blvd., Suite 100
 Sacramento, CA, US 95816
 norr.com

Project Manager Drawn Author
 Project Leader Checked Checker

Client
MAMMOTH YOSEMITE AIRPORT

Project
MAMMOTH ARFF/SRF

MAMMOTH, CALIFORNIA
 Drawing Title
TITLE 24

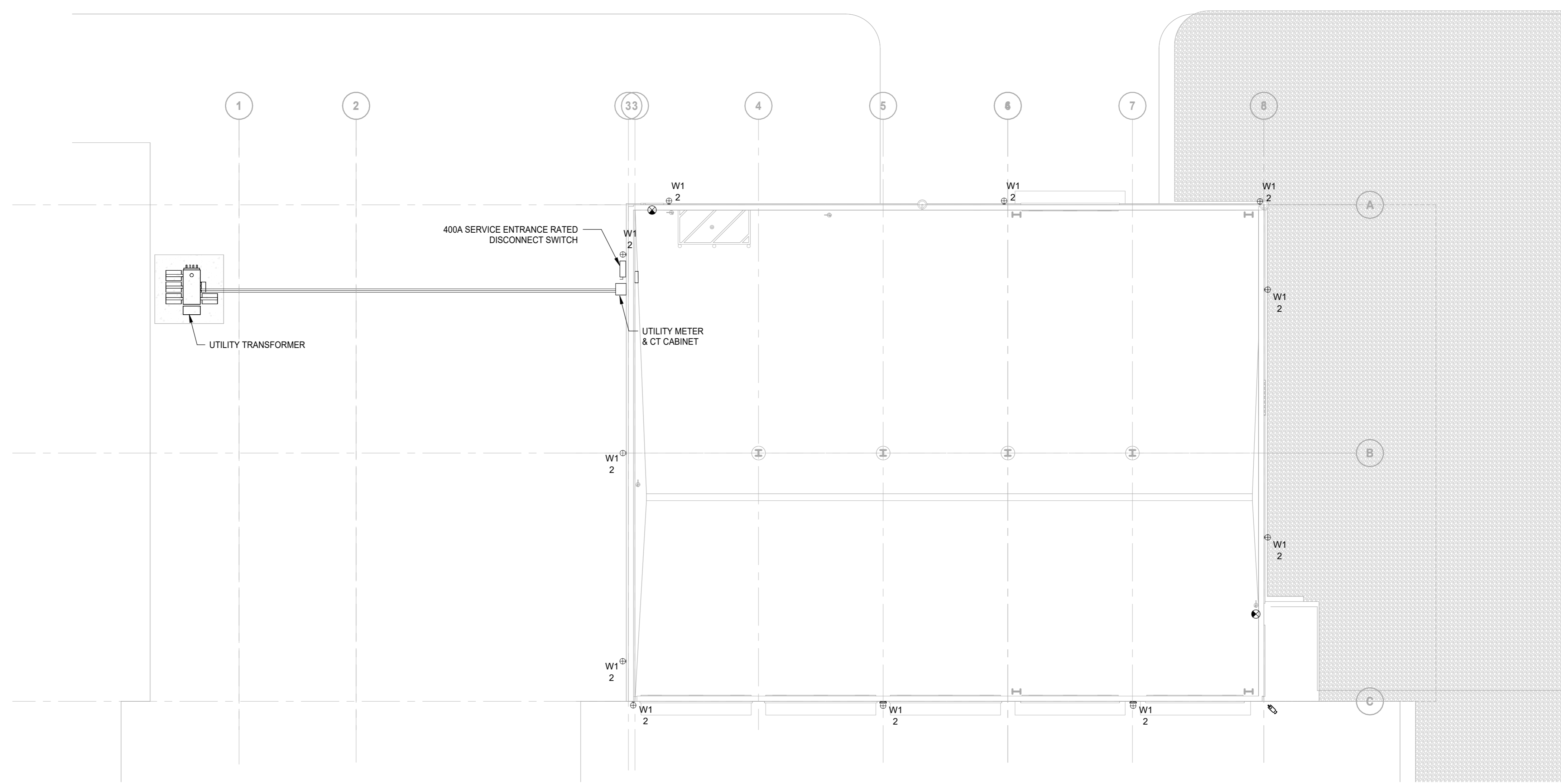
Scale

Project No. XXXX00-0000

Drawing No. **E01-02**

5/15/2023 2:36:35 PM

Autodesk Docs\Mammoth Phase 3\102024-0022_EU_Mammoth Phase 3_1023.rvt



1 SITE PLAN
 E02-01 SCALE: 1" = 10'-0"

DATE	ISSUED FOR	REV
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Project Component		
Key Plan		
Consultants Survey: Civil: Architecture: NORR Structural: Mechanical: Electrical: NORR Interiors: Landscape:		
Seal(s)		
The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816 norr.com		
Project Manager	Drawn	Author
Project Leader	Checked	Checker
Client		
MAMMOTH YOSEMITE AIRPORT		
Project		
MAMMOTH ARFF/SRF		
MAMMOTH, CALIFORNIA		
Drawing Title		
SITE PLAN		
Scale		
1" = 10'-0"		
Project No.		
XXXX00-0000		
Drawing No.		
E02-01		

BRANCH PANEL: PANEL A

LOCATION: **VOLTS:** 120/208 Wye **A.I.C. RATING:** 65k
 SUPPLY FROM: **PHASES:** 3 **MAINS TYPE:**
 MOUNTING: Surface **WIRES:** 4 **BUS RATING:** 400 A
 ENCLOSURE: Type 1 **MCB RATING:** 400 A

NOTES:

CKT	LG	CIRCUIT DESCRIPTION	TRIP	POLE	A (VA)	B (VA)	C (VA)	POLE	TRIP	CIRCUIT DESCRIPTION	LG	CKT	
1		LEVEL 1 LIGHTING/EXIT SIGNS	20 A	1	970	312			1	20 A		2	
3		EXTERIOR GFCI RECEPT.	20 A	1		720	1260		1	20 A		4	
5		SRE CORD REEL	20 A	1				360	360	1	20 A	6	
7		SRE GARAGE GFCI RECEPT.	20 A	1	720	1500				2	20 A	8	
9		OH DOOR	20 A	1			1080	1500		1	20 A	10	
11		OH DOOR	20 A	1			1080	1080		1	20 A	12	
13		OH DOOR	20 A	1	1080	1080				1	20 A	14	
15		EXTERIOR GFCI RECEPT.	20 A	1		540	2006			1	20 A	16	
17		EF-2	25 A	3	2006	2006				3	25 A	18	
19												20	
21						2006	167				20 A	22	
23		UH-1, UH-2	20 A	1				1044	167		3	20 A	24
25		UH-3, UH-4	20 A	1	1044	167						26	
27						4000	180			1	20 A	28	
29		AIR COMPRESSOR	35 A	3			4000	0		1	20 A	30	
31					4000	0				1	20 A	32	
33		SPARE	20 A	1		0	0			1	20 A	34	
35		SPARE	20 A	1				0	0	1	20 A	36	
37		SPACE	--	1	--	--	--	--	--	1	--	38	
39		SPACE	--	1	--	--	--	--	--	1	--	40	
41		SPACE	--	1	--	--	--	--	--	1	--	42	
LOAD:					14884 VA	13458 VA	12102 VA						
AMPS:					126 A	114 A	101 A						

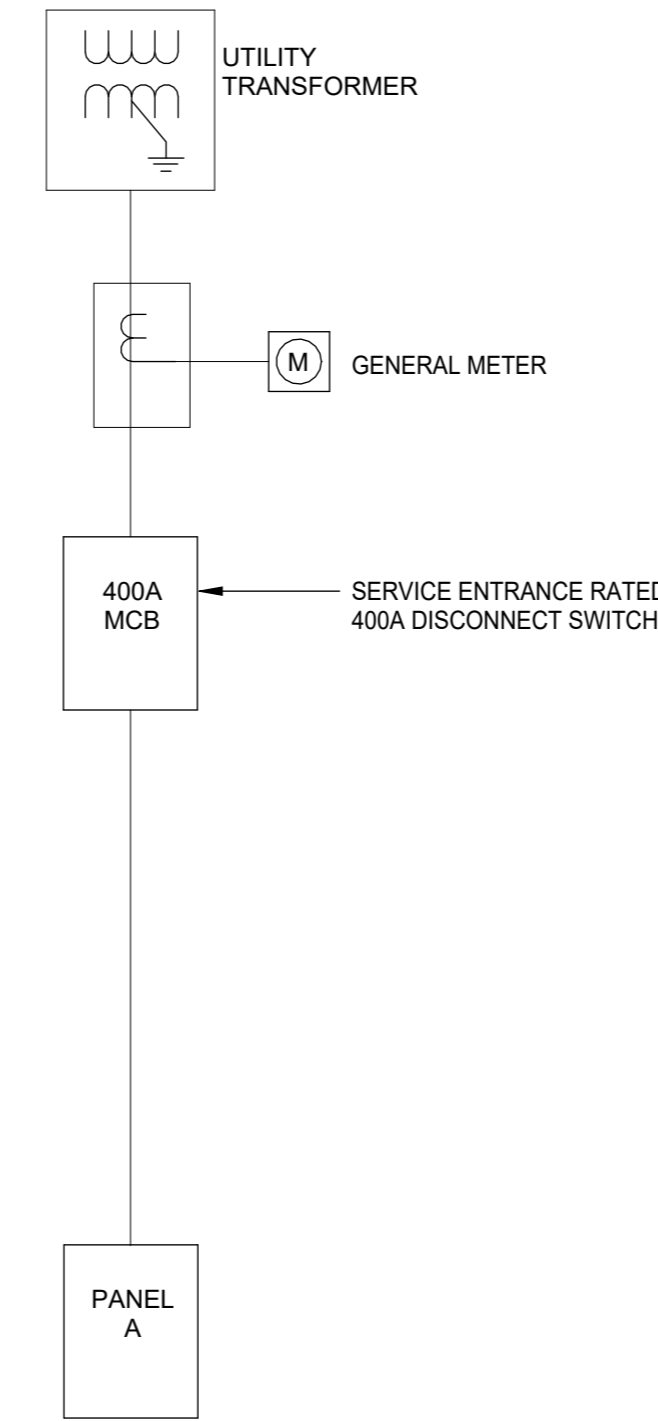
LEGEND (LG):

A - ARC FAULT BREAKER, E - EXISTING BREAKER, EL - EXISTING LOAD AND BREAKER, G - GROUND FAULT BREAKER, L - LOCKED-ON BREAKER, S - SHUNT TRIP BREAKER

NOTES:

PANEL TOTALS

TOTAL CONN. LOAD: 40444 VA
TOTAL CONN.: 112 A



1 Single Line Diagram
 E03-01 SCALE: 1/8" = 1'-0"

CIRCUIT CONDUIT & CONDUCTOR SCHEDULE

FUSE/CIRCUIT BREAKER - AMP/POLE	PHASE/NEUTRAL (NOTE 3)	GROUND	CONDUIT
15A/1P & 20A/1P	2 - 12 AWG	1 - 12 AWG	3/4"
15A/2P & 20A/2P	2 OR 3 - 12 AWG	1 - 12 AWG	3/4"
15A/3P & 20A/3P	3 OR 4 - 12 AWG	1 - 12 AWG	3/4"
25A/1P & 30A/1P	2 - 10 AWG	1 - 10 AWG	3/4"
25A/2P & 30A/2P	2 OR 3 - 10 AWG	1 - 10 AWG	3/4"
25A/3P & 30A/3P	3 OR 4 - 10 AWG	1 - 10 AWG	3/4"
35A/1P & 40A/1P	2 - 8 AWG	1 - 10 AWG	3/4"
35A/2P & 40A/2P	2 OR 3 - 8 AWG	1 - 10 AWG	3/4"
35A/3P & 40A/3P	3 OR 4 - 8 AWG	1 - 10 AWG	3/4"
40A/1P & 45A/1P	2 - 8 AWG	1 - 10 AWG	3/4"
40A/2P & 45A/2P	2 OR 3 - 8 AWG	1 - 10 AWG	3/4"
40A/3P & 45A/3P	3 OR 4 - 8 AWG	1 - 10 AWG	3/4"
60A/1P	2 - 6 AWG	1 - 10 AWG	3/4"
60A/2P	2 OR 3 - 6 AWG	1 - 10 AWG	3/4"
60/3P	3 OR 4 - 6 AWG	1 - 10 AWG	1"
70A/1P	2 - 4 AWG	1 - 8 AWG	1"
70A/2P	2 OR 3 - 4 AWG	1 - 8 AWG	1"
70A/3P	3 OR 4 - 4 AWG	1 - 8 AWG	1 1/4"
80A/2P	2 OR 3 - 4 AWG	1 - 8 AWG	1"
80A/3P	3 OR 4 - 4 AWG	1 - 8 AWG	1 1/4"
90A/2P	2 OR 3 - 3 AWG	1 - 8 AWG	1 1/4"
90A/3P	3 OR 4 - 3 AWG	1 - 8 AWG	1 1/4"
100A/2P	2 OR 3 - 3 AWG	1 - 8 AWG	1 1/4"
100A/3P	3 OR 4 - 3 AWG	1 - 8 AWG	1 1/4"
110A/2P	2 OR 3 - 2 AWG	1 - 6 AWG	1 1/4"
110A/3P	3 OR 4 - 2 AWG	1 - 6 AWG	1 1/4"
125A/2P	2 OR 3 - 1 AWG	1 - 6 AWG	1 1/4"
125A/3P	3 OR 4 - 1 AWG	1 - 6 AWG	1 1/2"
150A/2P	2 OR 3 - 1/0 AWG	1 - 6 AWG	1 1/2"
150A/3P	3 OR 4 - 1/0 AWG	1 - 6 AWG	2"
175A/2P	2 OR 3 - 2/0 AWG	1 - 6 AWG	2"
175A/3P	3 OR 4 - 2/0 AWG	1 - 6 AWG	2"
200A/2P	2 OR 3 - 3/0 AWG	1 - 6 AWG	2"
200A/3P	3 OR 4 - 3/0 AWG	1 - 6 AWG	2"
225A/2P	2 OR 3 - 4/0 AWG	1 - 4 AWG	2"
225A/3P	3 OR 4 - 4/0 AWG	1 - 4 AWG	2 1/2"
250A/2P	2 OR 3 - 250 MCM	1 - 4 AWG	2 1/2"
250A/3P	3 OR 4 - 250 MCM	1 - 4 AWG	3"
300A/2P	2 OR 3 - 350 MCM	1 - 3 AWG	3"
300A/3P	3 OR 4 - 350 MCM	1 - 3 AWG	3"
350A/2P	2 OR 3 - 500 MCM	1 - 3 AWG	3 1/2"
350A/3P	3 OR 4 - 500 MCM	1 - 3 AWG	3 1/2"
400A/2P	2 OR 3 - 500 MCM	1 - 3 AWG	3 1/2"
400/3P	3 OR 4 - 500 MCM	1 - 3 AWG	3 1/2"

NOTES:
 1. PROVIDE CIRCUIT CONDUCTOR AND CONDUIT SIZES INDICATED ABOVE UNLESS OTHERWISE NOTED.
 2. CONDUCTOR SIZING BASED UPON 75C THWN INSULATED COPPER CONDUCTOR.
 3. FOR TWO AND THREE POLE CIRCUITS PROVIDE NEUTRAL CONDUCTOR IF REQUIRED BY EQUIPMENT SERVED.

LIGHTING FIXTURE SCHEDULE

LIGHT FIXTURE TAG	DESCRIPTION	MANUFACTURER	MANUFACTURER	INITIAL COLOR TEMPERATURE	MOUNTING	REMARKS
B1	48" LOW-PROFILE LED STRIP LIGHT	LITHONIA LIGHTING	ZL1N-L48-3500LM-FST-MVOLT-40K-80CRI-WH	3500 K	MOUNTED	
W1	WPX LED WALL PACK	LITHONIA LIGHTING	WPX1-LED-P2-40K-MVOLT-DOBXD-M4	2900 K	MOUNTED	
X1	LED QUANTUM EXIT SIGNS	LITHONIA LIGHTING	LQM-S-W-3-R-120/277-M6		MOUNTED	

DATE	ISSUED FOR	REV

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Project Component

Key Plan

Consultants

Survey:
 Civil:
 Architecture: NORR
 Structural:
 Mechanical:
 Electrical: NORR
 Interiors:
 Landscape:

Seal(s)



NORR

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 Sacramento, CA, US 95816
 norr.com

Project Manager	Drawn
	Author
Project Leader	Checked
	Checker

Client
MAMMOTH YOSEMITE AIRPORT

Project
MAMMOTH ARFF/SRF

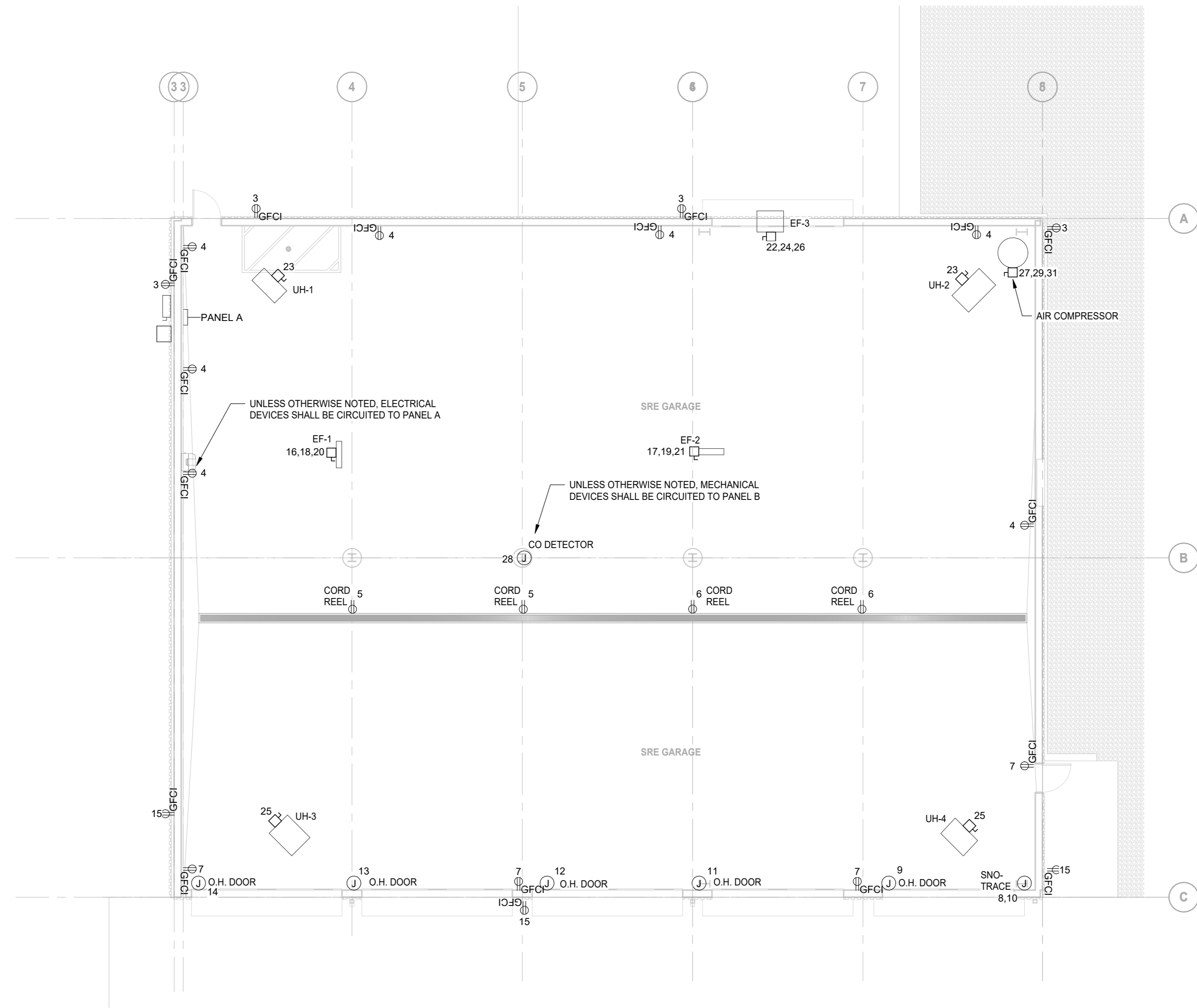
MAMMOTH, CALIFORNIA

Drawing Title
SINGLE LINES

Scale
 1/8" = 1'-0"

Project No.
 XXXX00-0000

Drawing No.
E03-01



1 OVERALL POWER PLAN - LEVEL 1
 E10-01 SCALE: 1/8" = 1'-0"

DATE	ISSUED FOR	REV
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Project Component

Key Plan

Consultants
 Survey:
 Civil:
 Architecture: NORR
 Mechanical:
 Electrical: NORR
 Interiors:
 Landscape:

Seal(s)



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Project Manager	Drawn
Project Leader	Author
	Checked
	Checker

Client
MAMMOTH YOSEMITE AIRPORT

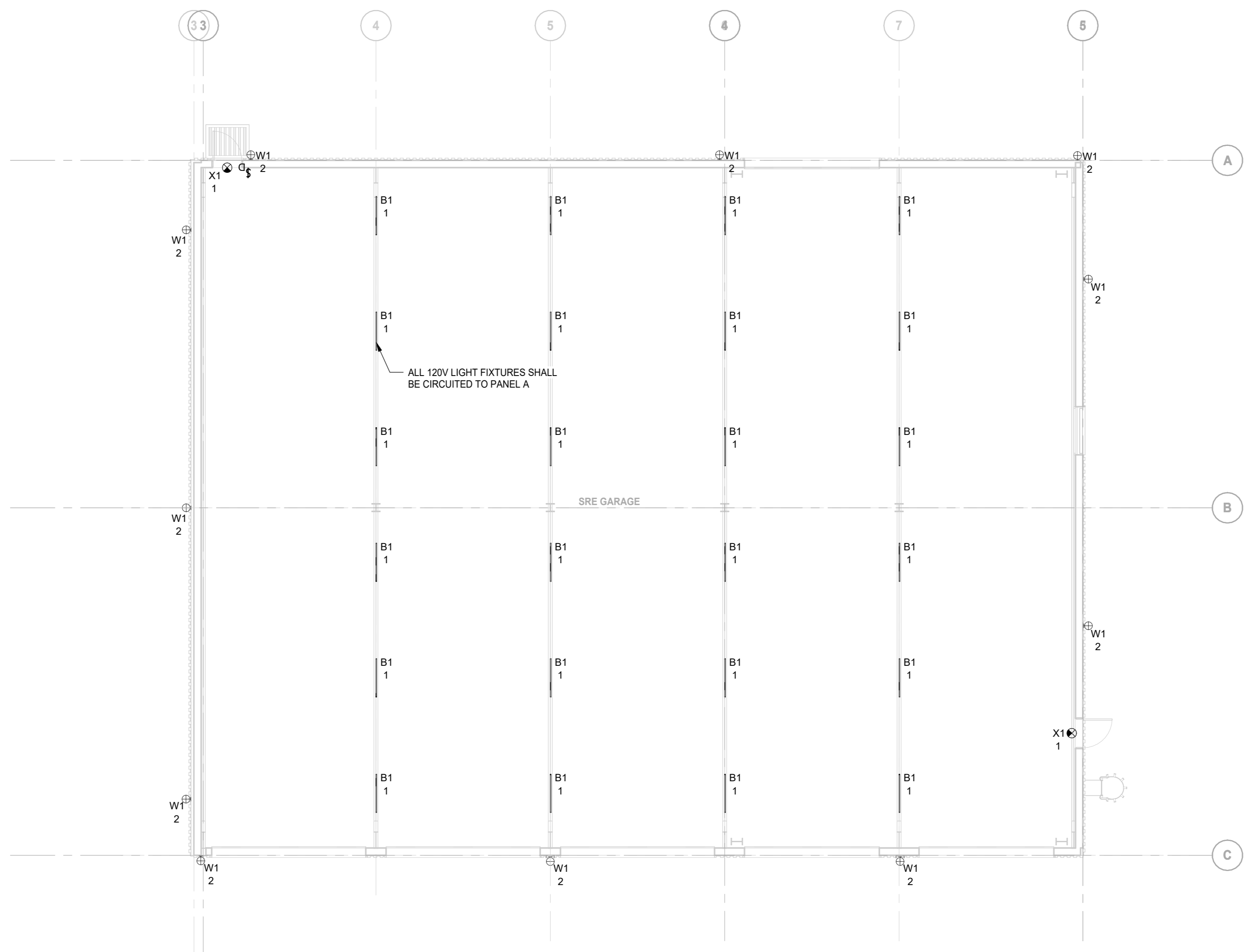
Project
MAMMOTH ARFF/SRF

MAMMOTH, CALIFORNIA
 Drawing Title
LEVEL 1 OVERALL POWER PLAN

Scale
 1/8" = 1'-0"

Project No.
 XXXX00-0000

Drawing No.
E10-01



1 OVERALL LIGHTING PLAN - LEVEL 1
SCALE: 1/8" = 1'-0"

DATE	ISSUED FOR	REV
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This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer

Project Component

Key Plan

Consultants
 Survey:
 Civil:
 Architecture: NORR
 Mechanical:
 Electrical: NORR
 Interiors:
 Landscape:

Seal(s)

NORR
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 Sacramento, CA, US 95816
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Project Manager	Drawn
Project Leader	Author
	Checked
	Checker

Client
MAMMOTH YOSEMITE AIRPORT

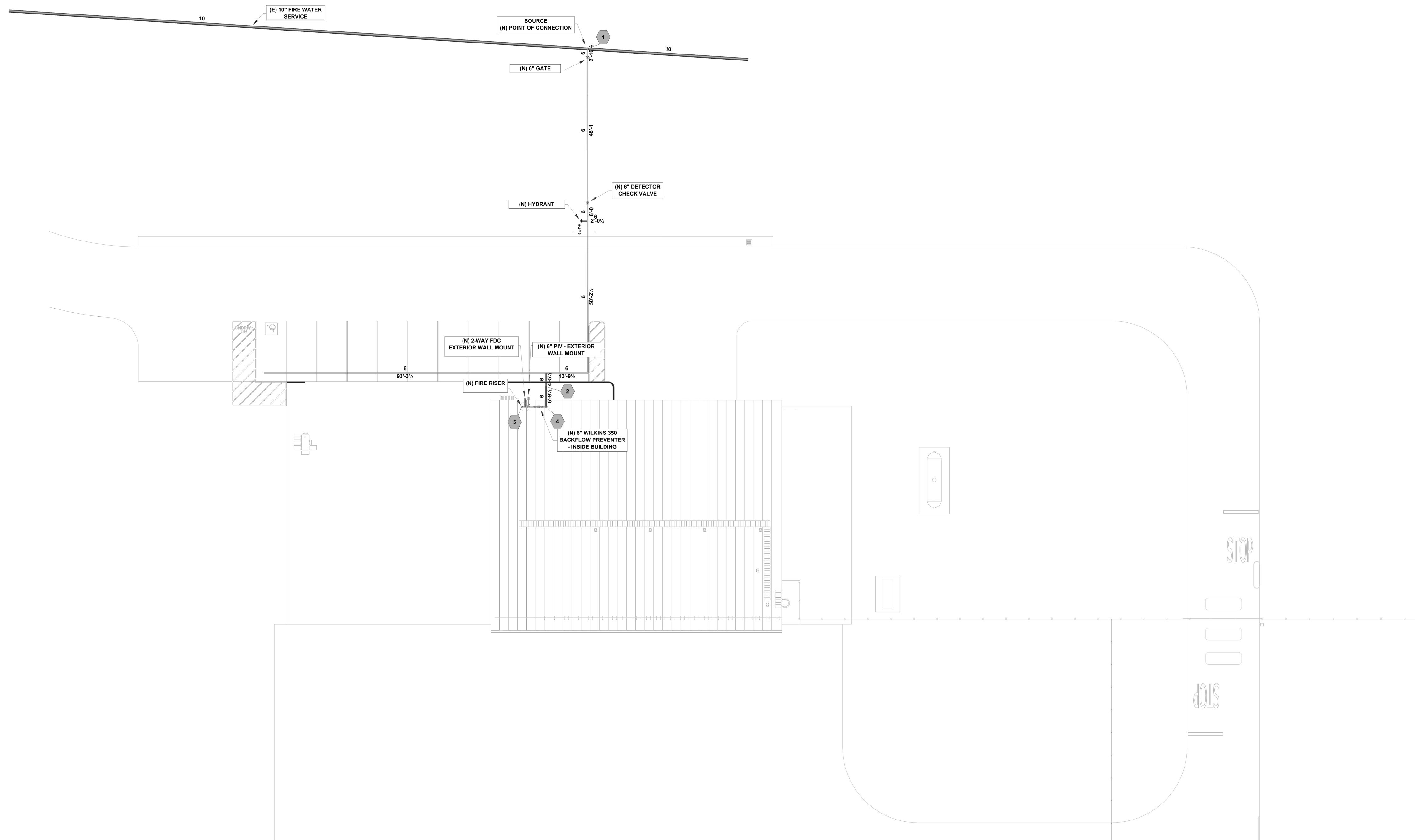
Project
MAMMOTH ARFF/SRF

MAMMOTH, CALIFORNIA
 Drawing Title
LEVEL 1 OVERALL LIGHTING PLAN

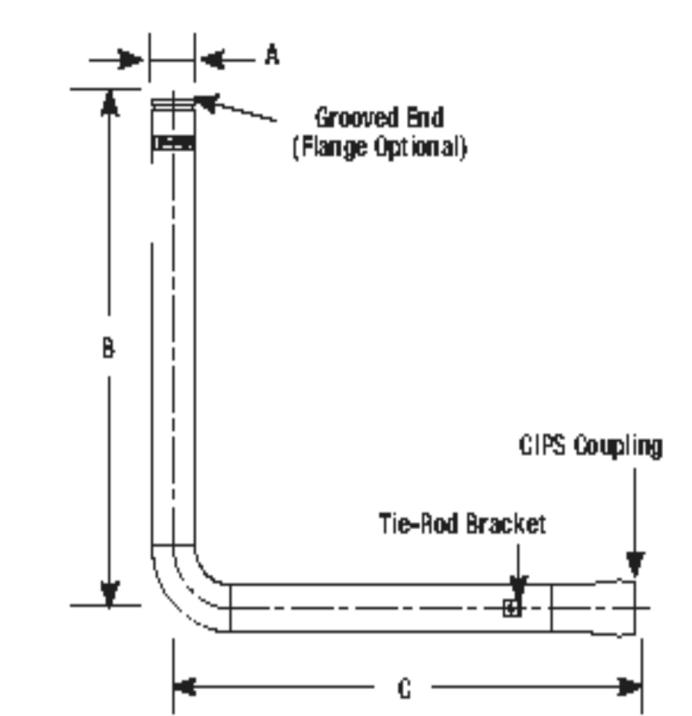
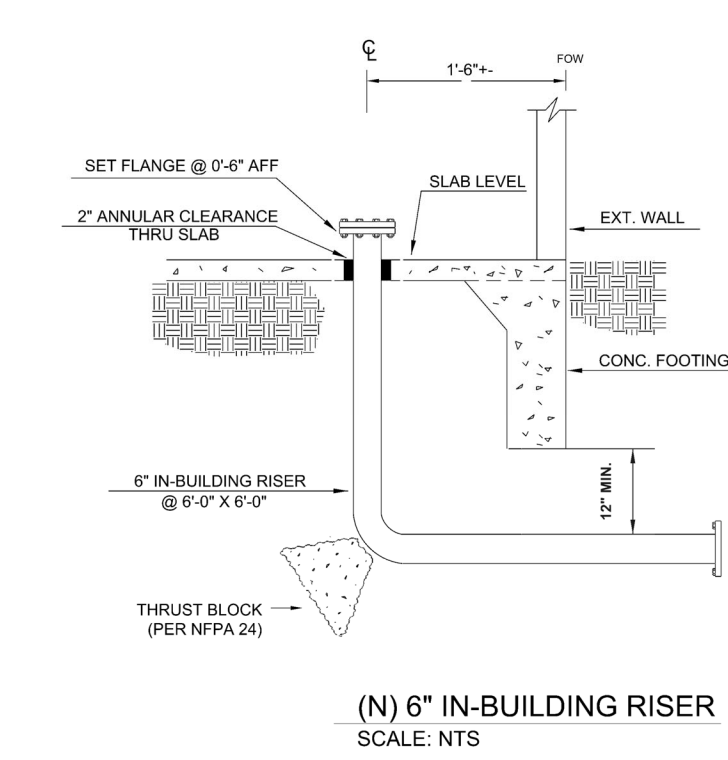
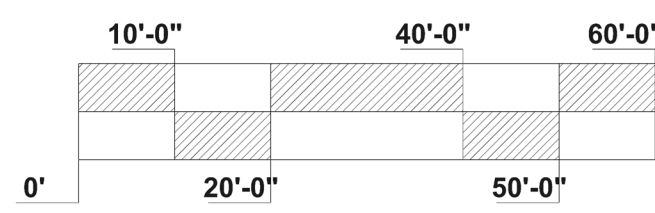
Scale
 1/8" = 1'-0"

Project No.
 XXXX00-0000

Drawing No.
E20-01



SITE PLAN - HYDRAULIC REFERENCE
SCALE: 1" = 20'-0"



	A (OD)	B	C		
	In.	in.	ft.	ft.	lbs.
4	4 1/2	6'-0"	6'-0"		71.0
4	4 1/2	8'-6"	6'-0"		85.0
6	6 5/8	6'-0"	6'-0"		98.0
6	6 5/8	8'-6"	6'-0"		122.0
8	8 5/8	6'-0"	6'-0"		129.0
8	8 5/8	8'-6"	6'-0"		163.0
10	10 3/4	6'-0"	6'-0"		202.0

(N) 6" IN-BUILDING RISER DETAIL
SCALE: NTS.

THIS PLAN IS FOR HYDRAULIC REFERENCE ONLY AND SHALL NOT BE USED FOR CONSTRUCTION.

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Project Component

Key Plan

Consultants
 Survey: Brandley Engineering
 Civil: Kimley-Horn
 Architecture: NORR
 Structural: Bevier Structural Eng
 Mechanical: NORR
 Electrical: NORR
 Interiors: NORR
 Fire Sprinkler: Sacramento Engineering Consultants

Seal(s)

NORR
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Project Manager: Drawn: JON PRICE
 Project Leader: Checked: MIKE NOVAK

Client: **MAMMOTH YOSEMITE AIRPORT**

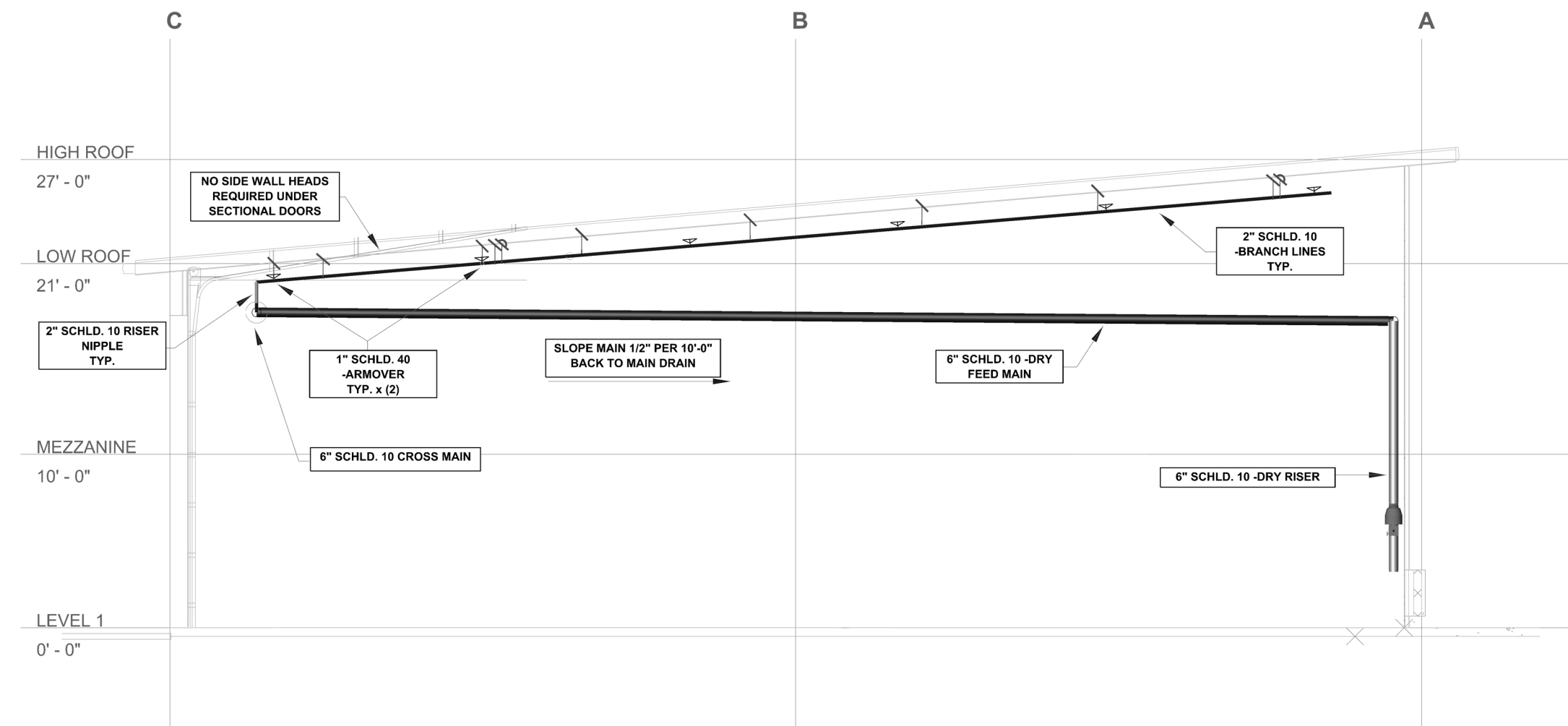
Project: **MAMMOTH SRE BLUIDING**

MAMMOTH, CALIFORNIA
 Drawing Title: **SITE PLAN**

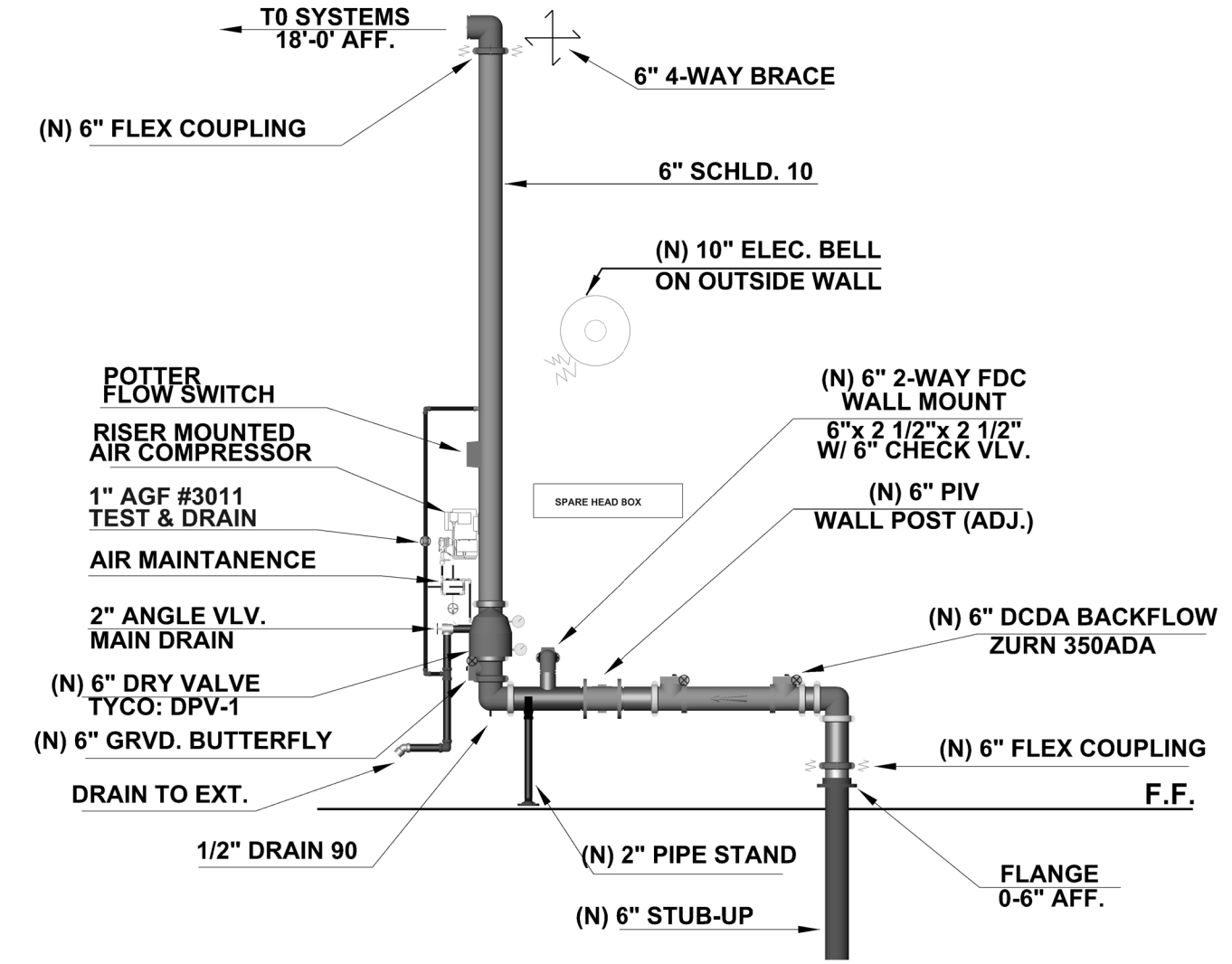
Scale:

Project No. IN2024-0022

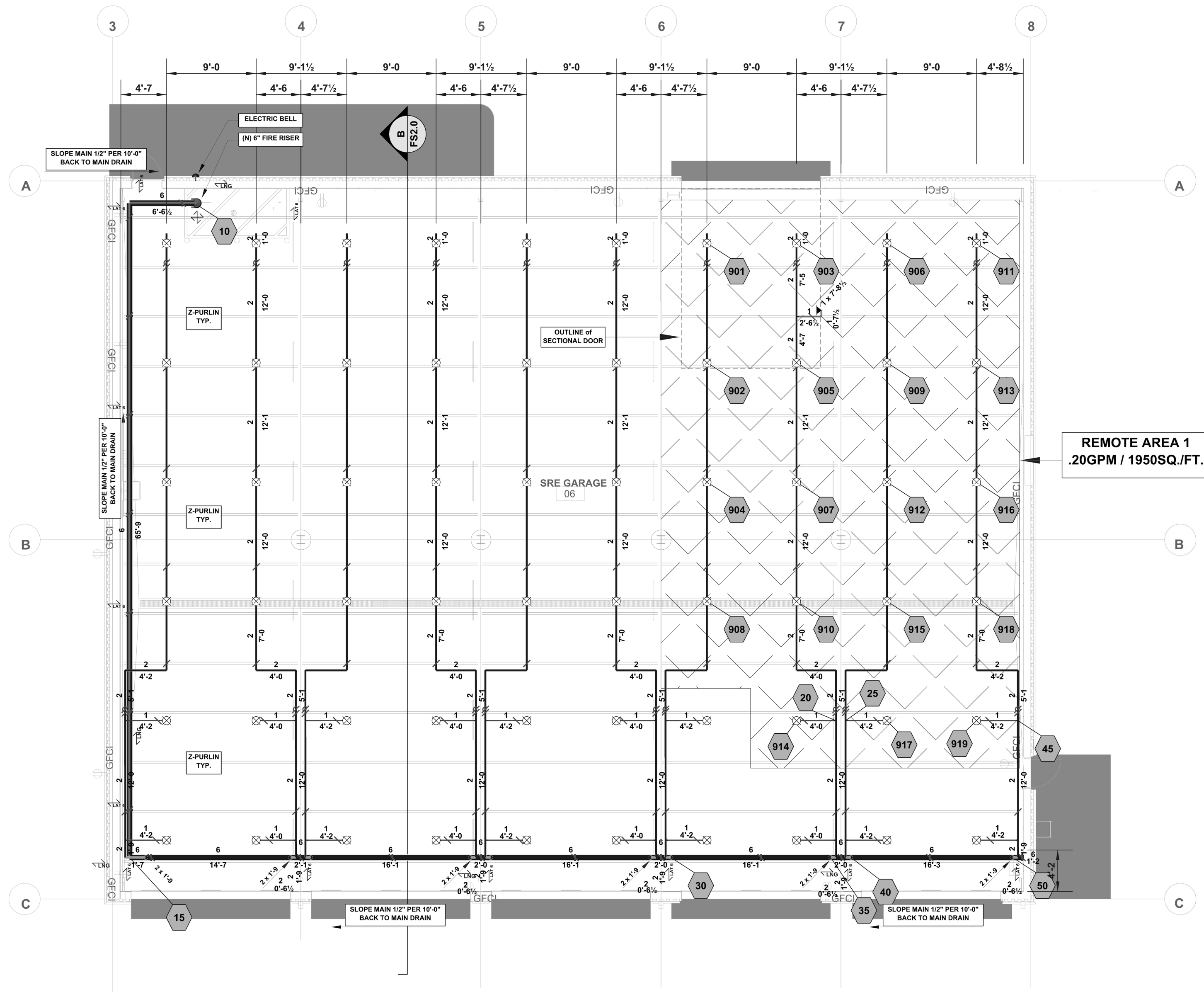
Drawing No. **FS1.0**



SECTION - B DETAIL
SCALE: 1/8" = 1'-0"



6\"/>



FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"

SYMBOL LEGEND

	PIPE HANGER
	PIPE RESTRAINT
	4-WAY SEISMIC BRACE
	LATERAL SEISMIC BRACE
	LONGITUDINAL SEISMIC BRACE
	NEW PIPING
	EXISTING PIPING

Sprinkler Legend

Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note
	Tyco	TY-3331	TY-FRB	60	5.6	Upright	1/2"	Quick	Brass	200°F	ROOF LEVEL
	Tyco	TY-3331	TY-FRB	1	5.6	Horizontal Sidewall	1/2"	Quick	Brass	200°F	BELOW SECTIONAL
				Total = 61							

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Project Component
Key Plan

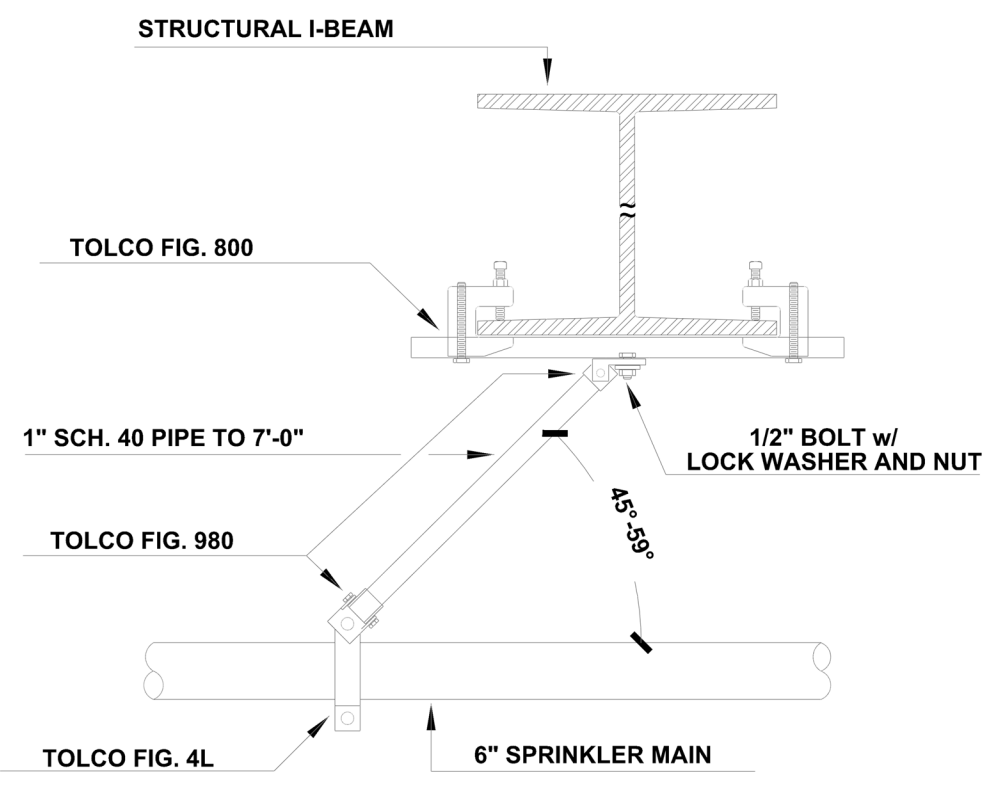
Consultants
Survey: Brandley Engineering
Civil: Kimley-Horn
Architecture: NORR
Structural: Bevier Structural Eng
Mechanical: NORR
Electrical: NORR
Interiors: NORR
Fire Sprinkler: Sacramento Engineering Consultants

Seal(s)
SACRAMENTO ENGINEERING CONSULTANTS
1655 Old Riverdale Road
Sacramento, CA 95827-2913
Phone: (916) 365-4460
Fax: (916) 365-4460
www.aeseng.com
Job No: 22356
DATE SIGNED: 04/09/26

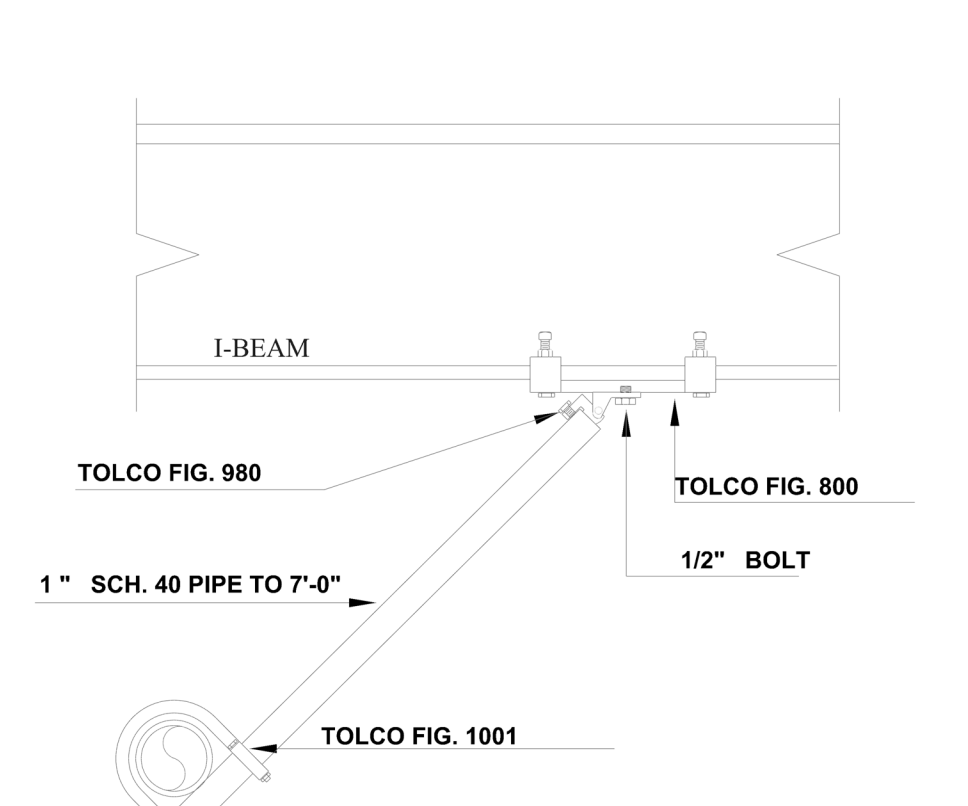
NORR
2020 I Street, Suite 220
Sacramento, CA, US 95811
nor.com

Project Manager: Drawn: JON PRICE
Project Leader: Checked: MIKE NOVAK
Client: MAMMOTH YOSEMITE AIRPORT
Project: MAMMOTH SRE BLUIDING
Drawing Title: MAMMOTH, CALIFORNIA FIRE SPRINKLER PLAN

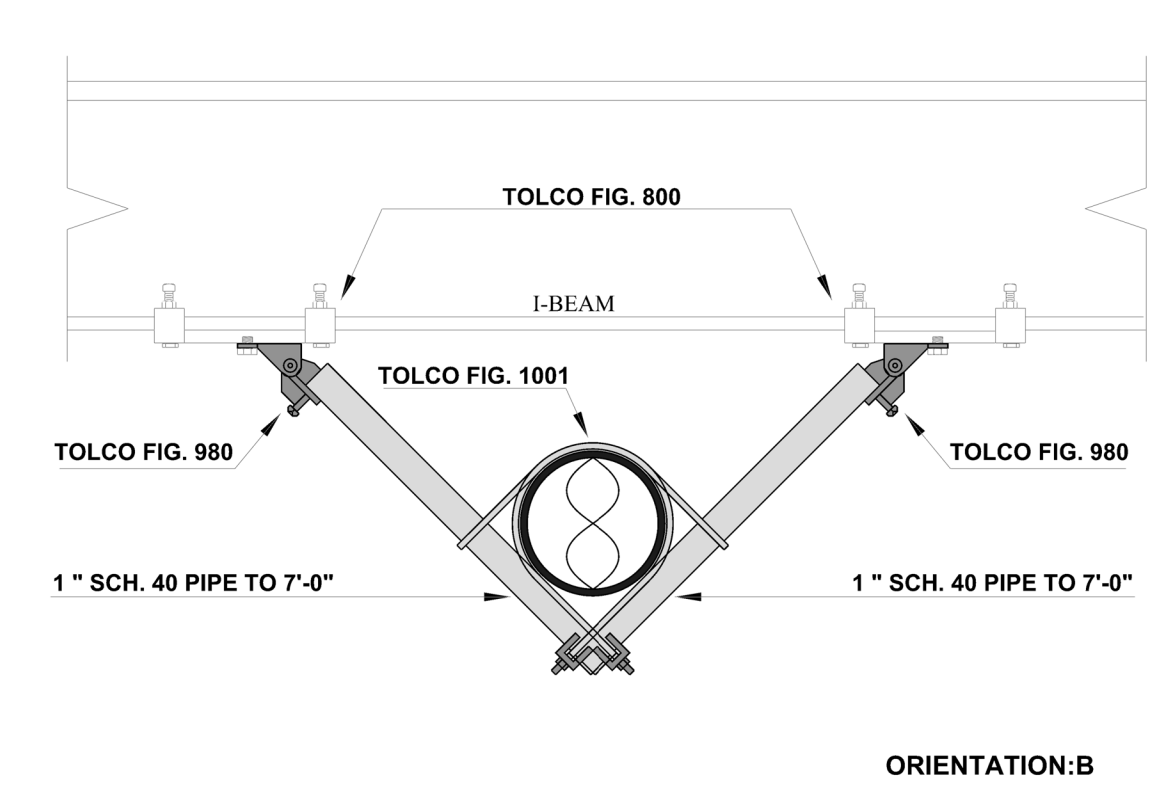
Scale: Project No. IN2024-0022
Drawing No. FS2.0



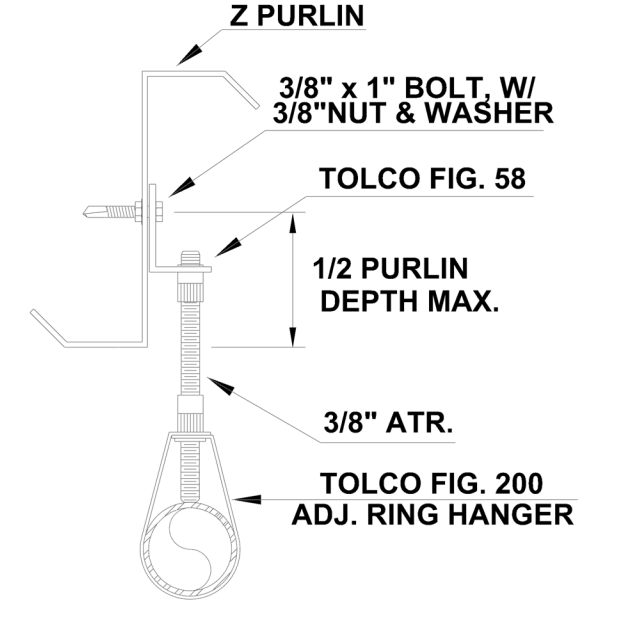
SEISMIC SWAY BRACE ASSEMBLY
LONGITUDINAL



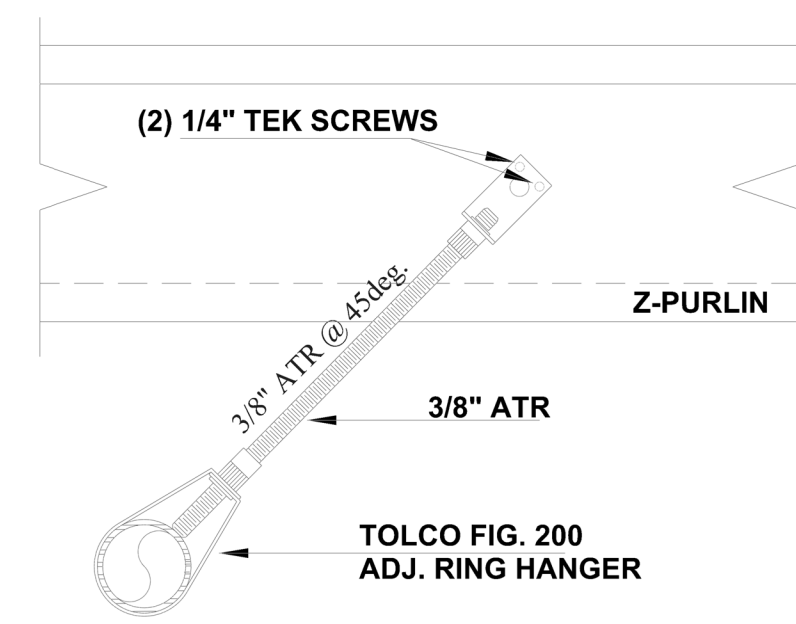
SEISMIC SWAY BRACE ASSEMBLY
LATERAL



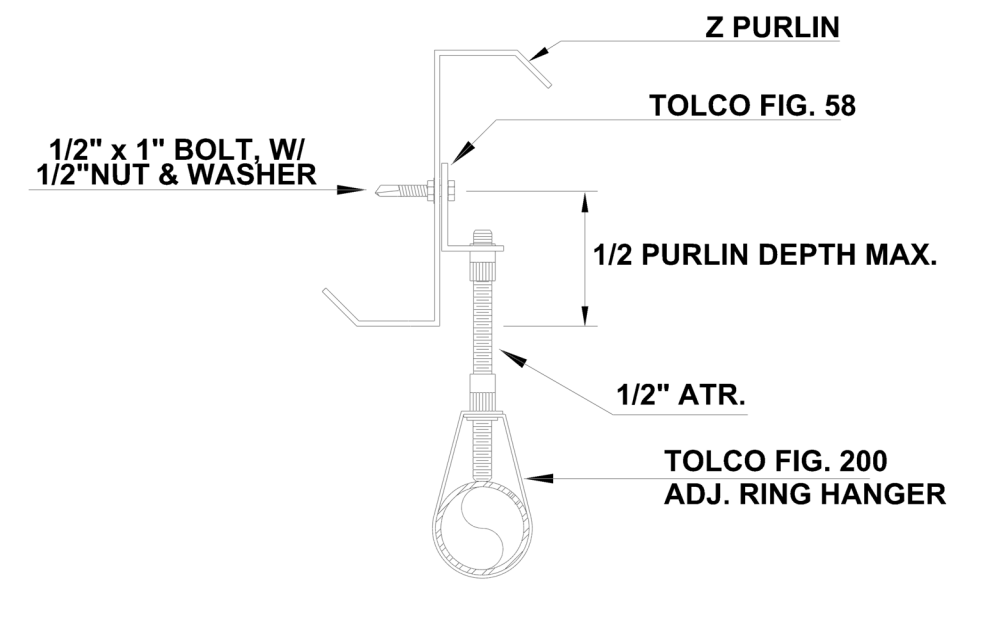
SEISMIC SWAY BRACE ASSEMBLY
4-WAY @ 6" RISER



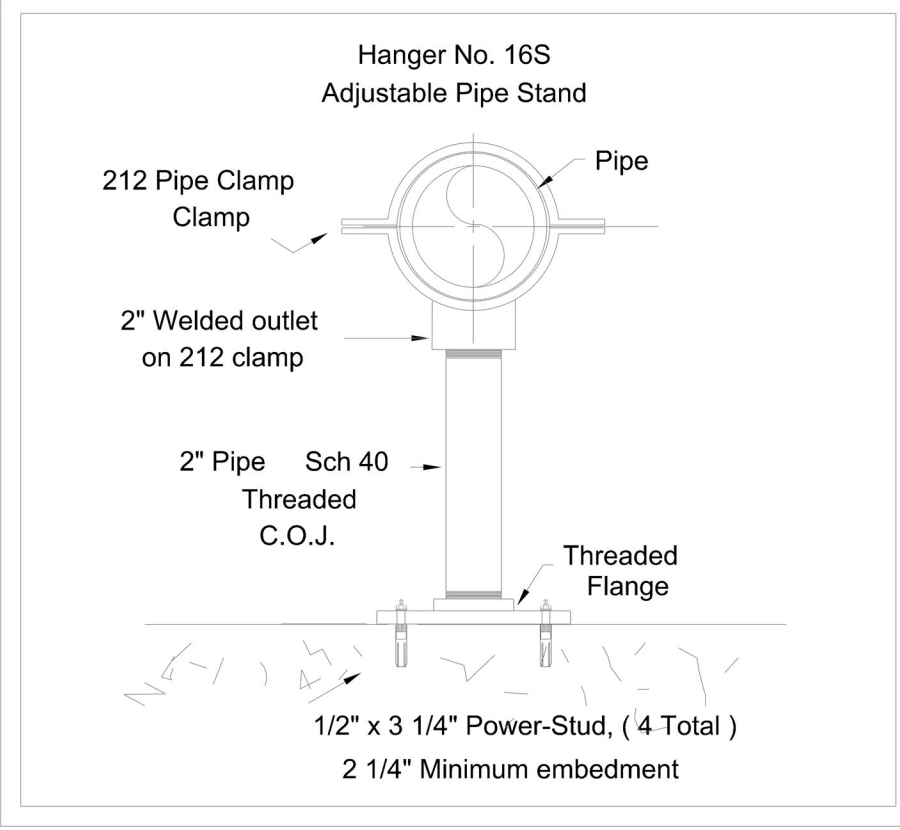
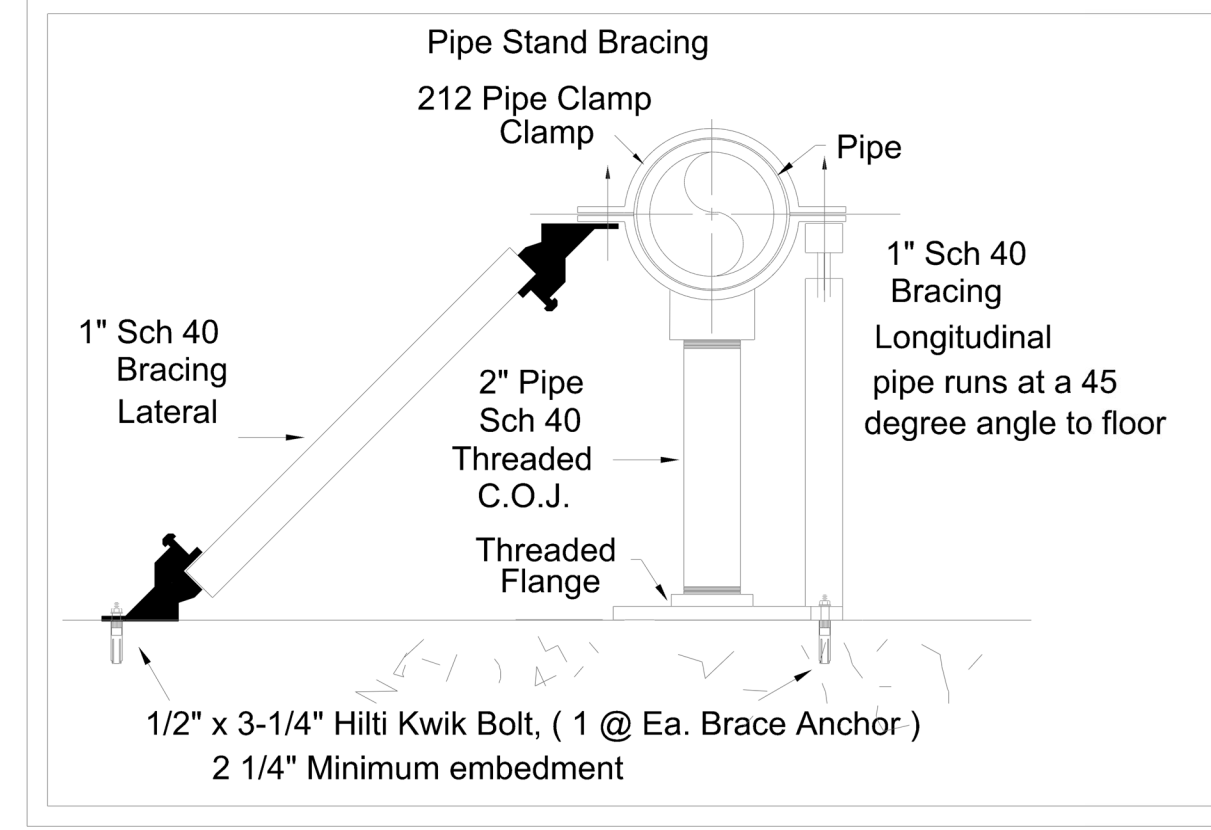
TOLCO FIG. 58
SIDE BEAM BRACKET
1" - 2" LINE HANGER



TOLCO FIG. 58
BRANCH LINE RESTRAINT

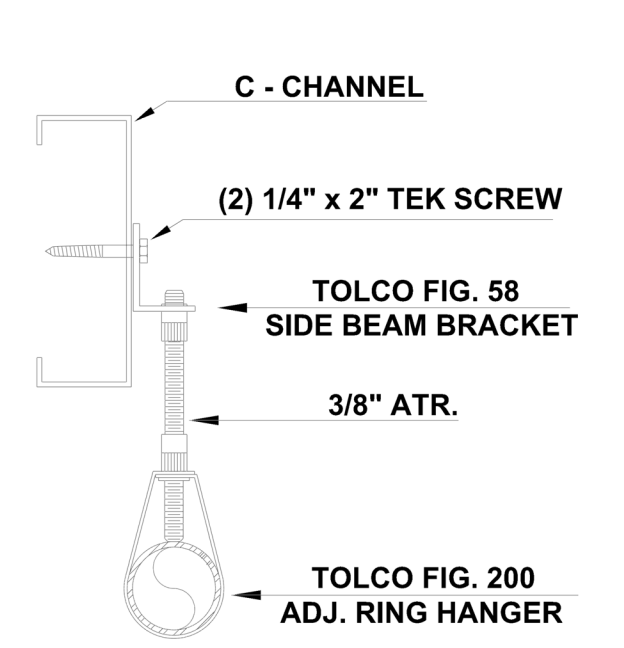


TOLCO FIG. 51
SIDE BEAM BRACKET
6" MAIN HANGER

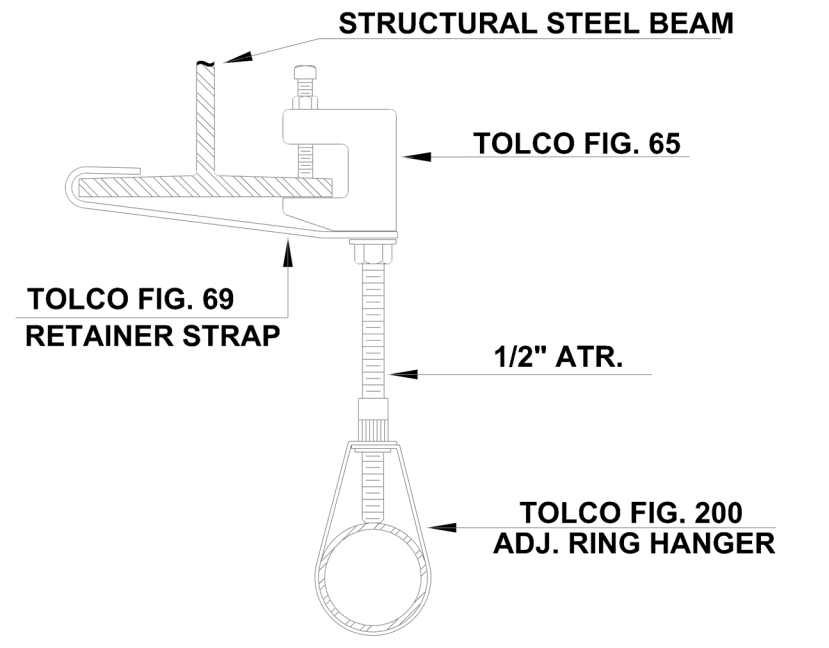


NFPA 13 2022 TABLE 17.4.2.1 (a)	1	1 ^{1/4}	1 ^{1/2}	2	2 ^{1/2}	3	3 ^{1/2}	4	5	6	8
STEEL PIPE (except threaded lightwall)	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
STEEL PIPE (threaded lightwall)	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A	N/A	N/A	N/A

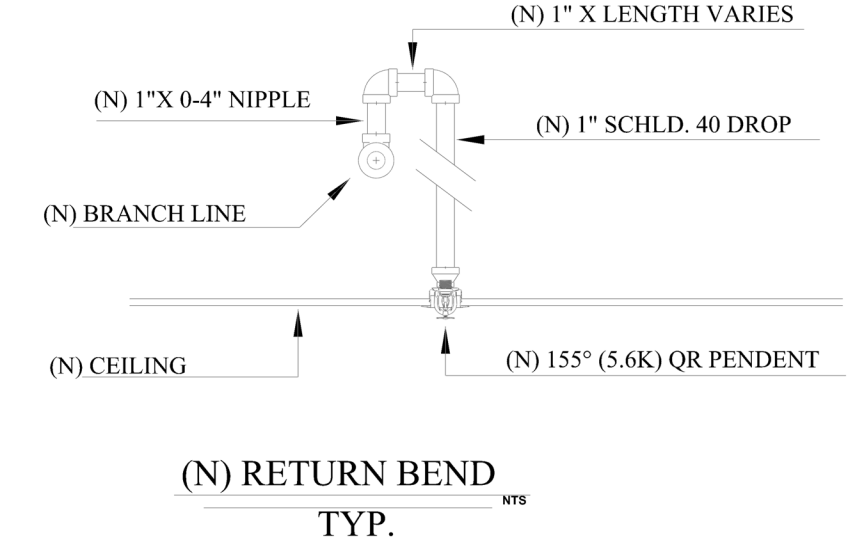
HANGING NOTE:
PER 2022 NFPA 13 SEC. 17.4.3.2.1 THERE SHALL NOT BE LESS THAN ONE HANGER FOR EACH SECTION OF PIPE HANGERS FOR MAINS SHALL BE IN ACCORDANCE WITH TABLE 17.4.2.1(a) OR BETWEEN EACH BRANCH LINE, WHICHEVER IS THE LESSER DIMENSION. PER NFPA 13 2022, SEC. 17.4.4.1



TOLCO FIG. 58
SIDE BEAM BRACKET



TOLCO FIG. 65 DETAIL
BOTTOM FLANGE LOCATION
6" MAIN HANGER



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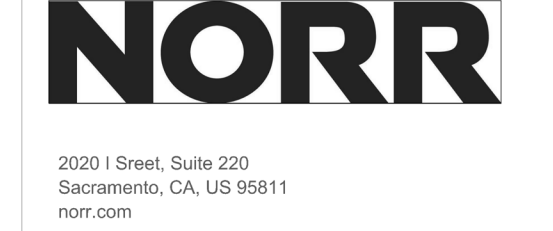
This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer

Project Component

Key Plan

Consultants
Survey: Brandley Engineering
Civil: Kimley-Horn
Architecture: NORR
Structural: Beaver Structural Eng
Mechanical: NORR
Electrical: NORR
Interiors: NORR
Fire Sprinkler: Sacramento Engineering Consultants

Seal(s)



Project Manager: Drawn: JON PRICE
Project Leader: Checked: MIKE NOVAK

Client: MAMMOTH YOSEMITE AIRPORT

Project: MAMMOTH SRE BLUIDING

MAMMOTH, CALIFORNIA
Drawing Title: NOTES & DETAILS

Scale

Project No: IN2024-0022
Drawing No: FS3.0

TOLBrace™ Seismic Bracing Calculations				V.B.8.138			
Project Address: Mammoth ARFF		Contractor: Sacramento Engineering Cor		Address: 10555 Old Placerville Road		Sacramento, ca	
1300 Airport Road		Phone:		Mammoth lakes, CA		License:	
Job # 22356		Calculations based on 2022 NFPA Pamphlet #13					
Brace Information		TOLCO™ Component		Listed Load	Adjusted Load		
Maximum Brace Length	7' 0" (2.134 m)	Fig. 1001 Clamp	2000 lbs (907 kg)	1414 lbs (641 kg)			
Diameter of Brace	1"	Fig. 980 - 3/4" Universal Swivel	2100 lbs (953 kg)	1485 lbs (674 kg)			
Type of Brace	Sch.40	Fig. 828 Along 1/2" - 7/8" Thick	1370 lbs (621 kg)	960 lbs (439 kg)			
Angle of Brace	45° Min.	*Calculation Based on CONCENTRIC Loading					
Least Rad. of Gyration	0.42" (11 mm)	*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.					
LR Value	200						
Max Horizontal Load	1310 lbs (594 kg)						
Fastener Information							
Orientation to Connecting Surface		NFPA Type B					
Fastener Type	Fig. 828 Along 1/2" - 7/8" Thick Flange						
Diameter	N/A						
Length	N/A						
Maximum Load	1370 lbs (621 kg)						
Prying Factor	N/A						
Sprinkler System Load Calculation (Fpw = CpWp)							
Cp = 0.83							
Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight		
0" (150 mm)	Sch. 10	18' R (6.3 m)	18' R (6.3 m)	23.03 lbf (10.47 kg/m)	419 lbs (188 kg)		
Subtotal Weight 419 lbs (188 kg)							
Wp (incl. 15%) 477 lbs (216 kg)							
Total (Fpw) 896 lbs (406 kg)							
Main Size	Type/Sch.	Spacing (ft)	Maximum Fpw per 18.5.2 (if applicable) N/A				
4"	Sch. 10	18					

TOLBrace™ Seismic Bracing Calculations				V.B.8.138			
Project Address: Mammoth ARFF		Contractor: Sacramento Engineering Cor		Address: 10555 Old Placerville Road		Sacramento, ca	
1300 Airport Road		Phone:		Mammoth lakes, CA		License:	
Job # 22356		Calculations based on 2022 NFPA Pamphlet #13					
Brace Information		TOLCO™ Component		Listed Load	Adjusted Load		
Maximum Brace Length	7' 0" (2.134 m)	Fig. 1001 Clamp	2000 lbs (907 kg)	1414 lbs (641 kg)			
Diameter of Brace	1"	Fig. 980 - 3/4" Universal Swivel	2100 lbs (953 kg)	1485 lbs (674 kg)			
Type of Brace	Sch.40	Fig. 800 - Across 4" - 12" Wide	1400 lbs (635 kg)	990 lbs (449 kg)			
Angle of Brace	45° Min.	*Calculation Based on CONCENTRIC Loading					
Least Rad. of Gyration	0.42" (11 mm)	*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.					
LR Value	200						
Max Horizontal Load	1310 lbs (594 kg)						
Fastener Information							
Orientation to Connecting Surface		NFPA Type B					
Fastener Type	Fig. 800 - Across 4" - 12" Wide						
Diameter	N/A						
Length	N/A						
Maximum Load	1400 lbs (635 kg)						
Prying Factor	N/A						
Sprinkler System Load Calculation (Fpw = CpWp)							
Cp = 0.83							
Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight		
0" (150 mm)	Sch. 10	20' R (6.1 m)	20' R (6.1 m)	23.03 lbf (10.47 kg/m)	461 lbs (209 kg)		
Subtotal Weight 461 lbs (209 kg)							
Wp (incl. 15%) 530 lbs (240 kg)							
Total (Fpw) 991 lbs (450 kg)							
Main Size	Type/Sch.	Spacing (ft)	Maximum Fpw per 18.5.2 (if applicable) N/A				
4"	Sch. 10	20					

TOLBrace™ Seismic Bracing Calculations				V.B.8.138			
Project Address: Mammoth ARFF		Contractor: Sacramento Engineering Cor		Address: 10555 Old Placerville Road		Sacramento, ca	
1300 Airport Road		Phone:		Mammoth lakes, CA		License:	
Job # 22356		Calculations based on 2022 NFPA Pamphlet #13					
Brace Information		TOLCO™ Component		Listed Load	Adjusted Load		
Maximum Brace Length	7' 0" (2.134 m)	Fig. 4L Clamp	2000 lbs (907 kg)	1414 lbs (641 kg)			
Diameter of Brace	1"	Fig. 980 - 3/4" Universal Swivel	2100 lbs (953 kg)	1485 lbs (674 kg)			
Type of Brace	Sch.40	Fig. 800 - Across 4" - 12" Wide	1400 lbs (635 kg)	990 lbs (449 kg)			
Angle of Brace	45° Min.	*Calculation Based on CONCENTRIC Loading					
Least Rad. of Gyration	0.42" (11 mm)	*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.					
LR Value	200						
Max Horizontal Load	1310 lbs (594 kg)						
Fastener Information							
Orientation to Connecting Surface		NFPA Type B					
Fastener Type	Fig. 800 - Across 4" - 12" Wide						
Diameter	N/A						
Length	N/A						
Maximum Load	1400 lbs (635 kg)						
Prying Factor	N/A						
Sprinkler System Load Calculation (Fpw = CpWp)							
Cp = 0.83							
Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight		
0" (150 mm)	Sch. 10	40' R (12.2 m)	40' R (12.2 m)	23.03 lbf (10.47 kg/m)	921 lbs (418 kg)		
Subtotal Weight 921 lbs (418 kg)							
Wp (incl. 15%) 1059 lbs (480 kg)							
Total (Fpw) 1980 lbs (898 kg)							
Main Size	Type/Sch.	Spacing (ft)	Maximum Fpw per 18.5.2 (if applicable) N/A				
4"	Sch. 10	40					

FIRE SPRINKLER GENERAL NOTES

1. THIS PROJECT DESIGN IS FOR A NEW STEEL CONSTRUCTED BUILDING FOR A FUTURE OFFICE AND SNOW REMOVAL EQUIPMENT STORAGE.
2. FIRE SPRINKLER SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 13 (2022) AND THE AUTHORITY HAVING JURISDICTION FOR LIGHT HAZARD AND ORDINARY GRP. 2 HAZARD OCCUPANCY. MAXIMUM STORAGE HEIGHT IS 12'-0" TOP OF PRODUCT. DESIGN AREA FOR ORDINARY HAZARD GROUP 2 OCCUPANCY FOR A DRY SYSTEM HAS BEEN INCREASED TO 1950sq./ft.
3. PIPING TYPE SHALL BE SCHLD. 10 FOR GROOVED/WELDED PIPING AND SCHLD. 40 FOR THREADED PIPING. NEW INSTALLED PIPE SHALL BE BLACK, UL LISTED AND APPROVED FOR FIRE SERVICE.
4. HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2022) AND MANUF. REQUIREMENTS.
5. SEISMIC BRACING SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 13 (2022) AND MANUF. REQUIREMENTS.
6. BRANCH LINE RESTRAINTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2022) AND MANUF. REQUIREMENTS.
7. THIS FIRE SPRINKLER SYSTEM IS A DRY PIPE SYSTEM. ALL PIPE SHALL BE SLOPED TOWARDS DRAINS PER NFPA 13.
8. SYSTEMS SHALL BE HYDRO-STATICALLY TESTED @ 200 PSI FOR 2 HOURS - PER NFPA # 13.
9. 24 HOUR SUPERVISION BY A CENTRAL STATION SHALL BE PROVIDED BY OTHERS.
10. ALL ELECTRICAL, PAINTING OF PIPE, ACCESS PANELS, IF REQUIRED, ARE BY OTHERS.
11. ALL DROP SPRINKLER HEADS SHALL BE INSTALLED WITH A RETURN BEND FROM THE BRANCH LINE. SEE DETAIL SHT. # FS3.0
12. ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE CAULKED PER UL GUIDELINES. FIRE CAULKING IS BY OTHERS. DETAILS FOR FIRE STOPPING TO BE SUBMITTED TO THE A.H.J. FOR APPROVAL PRIOR TO INSTALLATION
13. ALL MECHANICAL TEE FITTINGS, (IF USED), SHALL ATTACH RETRIEVABLE DISC ON OR NEAR FITTING FOR INSPECTION.
14. ALL SPRINKLERS SHALL BE NEW, UL LISTED AND APPROVED FOR FIRE SERVICE.
15. LOW POINTS OF THE SYSTEM SHALL BE PROVIDED WITH A MEANS OF DRAINING TRAPPED WATER.
16. ALL AUXILIARY DRAINS SHALL USE A 1" X 2" X 1" DRUM DRIP.

