

PROJECT DIRECTORY

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FRESNO COUNTY SHERIFF AREA 2 SUBSTATION BLDG

1129 NORTH ARMSTRONG AVENUE FRESNO, CA 93727



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PROJECT DATA

1. PROJECT TITLE: FRESNO COUNTY SHERIFF AREA 2 SUBSTATION

1.1. SUBSTATION BLDG

1.2. STORAGE BLDG

2. PROJECT ADDRESS: 1129 N ARMSTRONG AVE FRESNO, CA 93727

3. APN: 310-133-04, 05, 06T

4. LEGAL:

5. ZONING: IL/U6M/GZ

6. SITE AREA: 289,080 SF (6.50 AC)

7. SUBSTATION BLDG

7.1. BLDG AREA: 22,700 SF

7.2. OCCUPANCY: A-3, B w/ A-2 AND S-1 ACCESSORY

7.3. CONSTRUCTION: IIB - SPRINKLERED

7.4. OCCUPANTS: 646

8. STORAGE BLDG

8.1. BLDG AREA: 35,520 SF

8.2. OCCUPANCY: S-2

8.3. CONSTRUCTION: IIB - SPRINKLERED

8.4. OCCUPANTS: 116

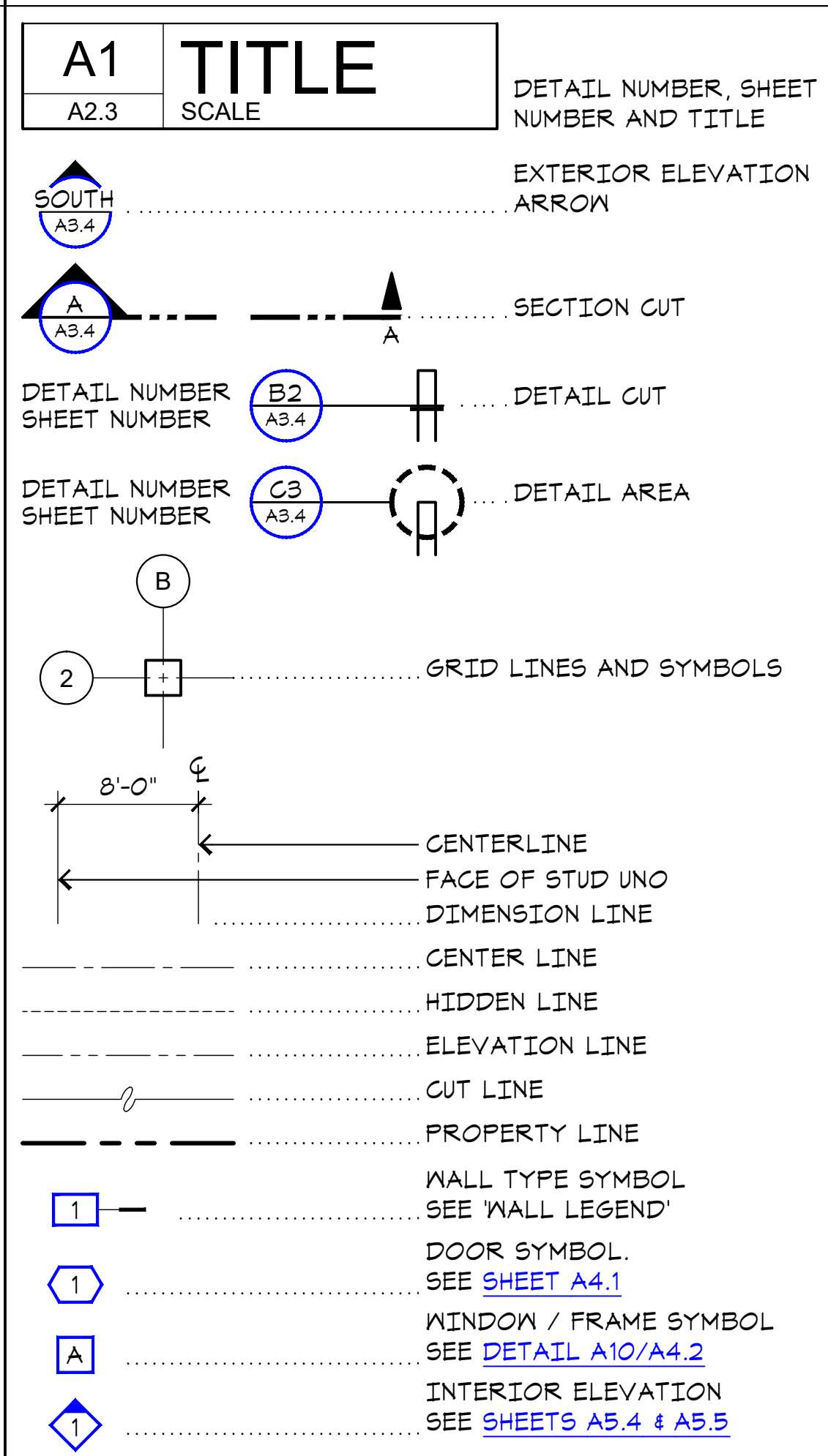
9. SITE COVERAGE: 20.6%

10. BUILDING CODE:

ADDITIVE BID ITEMS

- ADDITIVE BID 1 - STORAGE BUILDING AND ASSOCIATED SITE WORK. SEE SHEET A1.3 FOR EXTENTS.
- ADDITIVE BID 2 - LARGE VEHICLE CANOPIES. SEE SHEET A1.3 AND DETAIL L4/A1.4 FOR EXTENTS.

SYMBOLS LEGEND



DEFERRED SUBMITTALS

- METAL BUILDING: THE CONTRACTOR SHALL SUBMIT COMPLETE PRE-MANUFACTURED METAL BUILDING CALCULATIONS, DESIGN DETAILS, FRAME AND COMPONENT DETAILS, AND ANCHOR BOLT PLACEMENT DIMENSIONS AND SPECIFICATIONS FOR APPROVAL BY THE COUNTY OF FRESNO DEVELOPMENT SERVICES PRIOR TO STARTING WORK.
- FIRE SPRINKLERS: THE CONTRACTOR SHALL SUBMIT COMPLETE FIRE SPRINKLER DESIGN DRAWINGS TO FRESNO FIRE FOR APPROVAL PRIOR TO STARTING WORK.
- DATA AND DATA SUPPORT SYSTEMS.
- LARGE VEHICLE CANOPIES: THE COVERED PARKING STRUCTURE SHALL BE "SOLAR READY" AND SHALL CONFORM TO THE ARCHITECTURAL DRAWINGS IN CLEARANCE AND AREA DIMENSIONS. THE CONTRACTOR SHALL SUBMIT COMPLETE CONSTRUCTION DETAILS, ENGINEERING CALCULATIONS FOR STRUCTURE AND CONCRETE FOOTINGS, AND MANUFACTURER'S SPECIFICATION OF MATERIALS USED IN THE CONSTRUCTION OF THE STRUCTURE. BID SHALL INCLUDE ALL LABOR AND MATERIAL FOR STRUCTURE, CONCRETE FOOTINGS AND, ELECTRICAL POWER AND LIGHTING.

VICINITY MAP

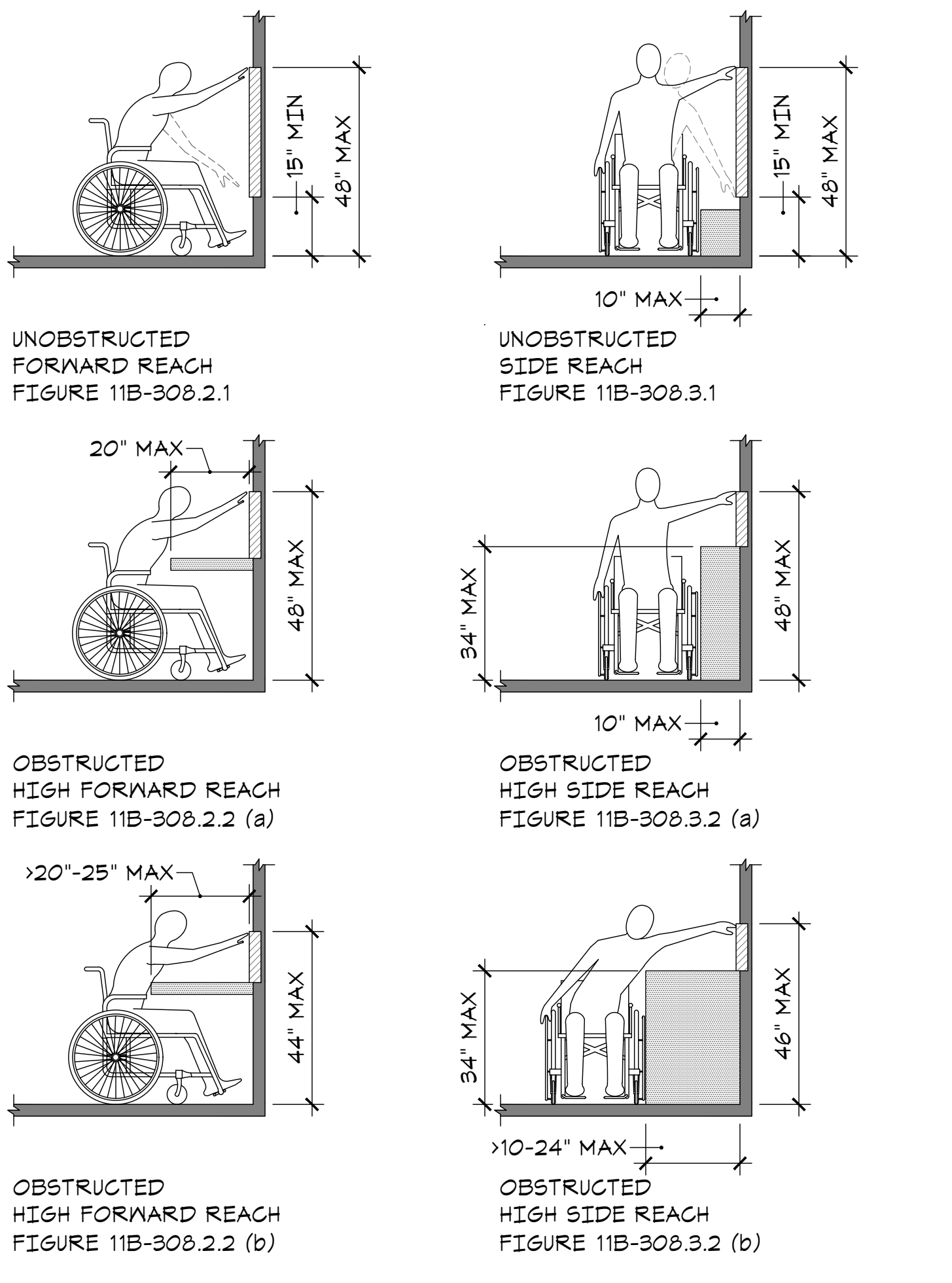


Project:
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 06.02.2020
PROJECT NO: 180293 / 19003
FILE NAME: 19003_A0-1_Cover

Sheet Content:
COVER



Sheet No.
A0.1



ACCESSIBLE REACH RANGES

K1 SCALE: NONE

EXISTING CONDITIONS

- BEFORE ANY WORK IS STARTED, THE CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ANY EXISTING UTILITY SERVING OR BEING PART OF THE SITE AND/OR BUILDING; BE IT ELECTRICAL, PLUMBING, TELEPHONE, ETC. BE IT OVERHEAD, SUBSURFACE, OR IN CONCRETE SLAB. WHETHER IT IS SCHEDULED TO BE REMOVED OR WILL REMAIN, ALL POSSIBLE CARE SHALL BE EXERCISED BY THE CONTRACTOR TO INSURE THAT ANY SAID UTILITY WILL NOT BE THE CAUSE OF ENDANGERING THE LIFE OR LIMB OF ANY PERSON.
- VERIFICATION SHALL BE MADE FROM AVAILABLE SOURCES TO THE CONTRACTOR SUCH AS, BUT NOT LIMITED TO, UTILITY COMPANIES, PLANS OF EXISTING BUILDINGS, THE CONTRACT DOCUMENTS, THE OWNER, SITE INVESTIGATION, ETC. UPON VERIFICATION OF LOCATION AND/OR DISCOVERING ANY DISCREPANCIES BETWEEN DRAWINGS WHICH INDICATE EXISTING UTILITIES AND THAT OF ACTUAL ON-SITE CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND AWAIT FURTHER INSTRUCTIONS.

ARCHITECTURAL NOTES

- ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER OTHER DRAWINGS FOR LAYOUT, DIMENSIONS AND NUMBER OF ITEMS PROVIDED. UPON DISCOVERY OF DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND ENGINEERING DRAWINGS, OWNER AND ARCHITECT SHALL BE IMMEDIATELY NOTIFIED IN WRITING.
- WHERE DRAWING AND SPECIFICATIONS CONFLICT, SPECIFICATIONS SHALL GOVERN.

LAYOUT

- DRAWINGS ARE NOT TO BE SCALED. DIMENSIONS GOVERN.
- ALL VERTICAL DIMENSIONS SHALL BE MADE FROM THE HIGHEST POINT OF THE FLOOR SLAB TO ENSURE PROPER ALIGNMENT OF ALL DOORS, BULKHEADS, ETC.
- ALL DRYWALL PARTITIONS ARE DIMENSIONED IN FEET AND INCHES FROM FACE OF STUD TO FACE OF STUD UNLESS NOTED OTHERWISE.
- LOCATE INSIDE EDGE OF ALL DOOR FRAMES 3" FROM THE ADJACENT PERPENDICULAR PARTITION UNLESS NOTED OTHERWISE.

ACCESSIBILITY

- ALL DOORS SHALL BE IN ACCORDANCE WITH UFAS AND ADA. INSTALL ALL FRAMES, DOORS AND HARDWARE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- OFFSETS AT ALL THRESHOLDS AND ANY CHANGE IN FLOOR MATERIAL SHALL BE A MAXIMUM OF 1/2 INCH. OFFSETS EQUAL TO OR LESS THAN 1/4 INCH MAY BE VERTICAL. OFFSETS GREATER THAN 1/4 INCH REQUIRE A MAXIMUM BEVELED SLOPE OF 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL.
- ELECTRICAL SWITCHES, CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL COMPLY WITH [DETAIL K1/A0.2](#) EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. (CBC 11B-308.1.1)
- ELECTRICAL RECEPTACLE OUTLETS, ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL COMPLY WITH [DETAIL K1/A0.2](#) EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. (CBC 11B-308.1.2)

INSTALLATION AND FINISHES

- ALL FINISH MATERIALS, FIXTURES, EQUIPMENT, HARDWARE, MILLWORK AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH ALL MANUFACTURERS RECOMMENDATIONS. PROVIDE ALL SUPPORT BACKING OR REINFORCEMENT OR OTHER PREPARATIONS AS REQUIRED.
- ALL EXPOSED EDGES AND / OR CORNERS ON ALL PAINTED DRYWALL CONSTRUCTION SHALL RECEIVE A METAL BEAD WHICH IS TO BE TAPED AND FLOATED SMOOTH.
- GLASS MAT WATER-RESISTANT GYPSUM BACKING PANELS, DISCRETE NONASBESTOS FIBER-CEMENT INTERIOR SUBSTRATE SHEETS OR NONASBESTOS FIBER-MAT REINFORCED CEMENTITIOUS BACKER UNITS

ABBREVIATIONS

AB	ANCHOR BOLT	LT	LIGHT
AC	ASPHALTIC CONCRETE	MAT'L	MATERIAL
ACC	ACCESSIBLE	MAX	MAXIMUM
AD	ADDITIONAL	MB	MACHINE BOLT
AD'DL	ADDITIONAL	MDF	MEDIUM DENSITY FIBERBOARD
ALUM	ALUMINUM	MECH	MECHANICAL
ANOD	ANODIZED	MEMB	MEMBRANE
APPROX	APPROXIMATE	MFR	MANUFACTURE(R)
ARCH	ARCHITECT(URAL)	MIN	MINIMUM
AUTO	AUTOMATIC	MIRR	MIRROR(ED)
AVE	AVENUE	MISC	MISCELLANEOUS
BD	BOARD	MTD	MOUNTED
BLDG	BUILDING	MTL	METAL
BLK	BLOCK	NTC	NOT IN CONTRACT
BLK'G	BLOCKING	NO	NUMBER
BM	BEAM	NR	NOT RATED
BRG	BEARING	NRC	NOISE REDUCTION COEFFICIENT
BTM	BOTTOM	NTE	NOT TO EXCEED
BTU	BRITISH THERMAL UNIT	NTS	NOT TO SCALE
C-C	CENTER TO CENTER	O/	OVER
CAB	CABINET	O.C.	ON CENTER
CBC	CALIFORNIA BUILDING CODE	OD	OUTSIDE DIAMETER
CI	CAST IRON	OH	OVERHANG
CJ	CONTROL JOINT	OPN'G	OPENING
C/L	CENTER LINE	OPF	OPPOSITE
CLNG	CEILING	PEN	PLYWOOD EDGE NAILING
CLR	CLEAR(ANCE)	PH	PANIC HARDWARE
CO	CLEANOUT	PL	PLATE
COL	COLUMN	PLAM	PLASTIC LAMINATE
CONC	CONCRETE	PLAS	PLASTIC
CONT	CONTINUOUS	PLF	POUNDS PER LINEAL FOOT
CORR	CORRIDOR	PLY	PLYWOOD
CW	COLD WATER	PR	PAIR
D	DRYER	PREFAB	PREFABRICATED
DBL	DOUBLE	PSF	POUNDS PER SQUARE FOOT
DEPT	DEPARTMENT	PSI	POUNDS PER SQUARE INCH
DF	DOUGLAS FIR	PT	PRESSURE TREATED
DF	DRINKING FOUNTAIN	RA	RETURN AIR
DIA	DIAMETER	RAD	RADIUS
DIAG	DIAGONAL	RD	ROOF DRAIN
DIM	DIMENSION	REF	REFRIGERATOR
DL	DEAD LOAD	REINF	REINFORCED, REINFORCING
DR	DOOR	REQD	REQUIRED
DS	DOWNSPOUT	RM	ROOM
DTL	DETAIL	RO	ROUGH OPENING
DW	DISHWASHER	ROW	RIGHT-OF-WAY
DWG	DRAWING	RWD	REDWOOD
EA	EACH	SA	SUPPLY AIR
EJ	EXPANSION JOINT	SAFPM	SELF-ADHESIVE WATERPROOF MEMBRANE
ELEC	ELECTRICAL	SC	SOLID CORE
ELEV	ELEVATION / ELEVATOR	SCHED	SCHEDULE
EN	EDGE NAILING	SD	STORM DRAIN
ENGR	ENGINEER	SF	STOREFRONT
ENGR'G	ENGINEERING	SH	SHELF
EST	ESTIMATE	SHT	SHEET
(E), EXIST	EXISTING	SHT'G	SHEATHING
EXP	EXPANSION	SIM	SIMILAR
EXT	EXTERIOR	SMS	SHEET METAL SCREEN
FA	FIRE ALARM	SOV	SHUT-OFF VALVE
FAU	FORCED AIR UNIT	SPEC	SPECIFICATION
FD	FLOOR DRAIN	SQ	SQUARE
FEB	FIRE EXTINGUISHER	SS	STAINLESS STEEL
FEC	FIRE EXTINGUISHER CABINET	STC	SOUND TRANSMISSION CLASS
FF	FINISH FLOOR	STD	STANDARD
FHC	FIRE HOSE CABINET	STL	STEEL
FIN	FINISH	STOR	STORAGE
FIXT	FIXTURE	STRUCT	STRUCTURAL
FL	FLOW LINE	STMS	SELF-TAPPING (DRILLING)
FLASH'G	FLASHING		SHEET METAL SCREEN
FLR	FLOOR	SUSP	SUSPENDED
FLR'G	FLOORING	SYM	SYMMETRICAL
FLUOR	FLUORESCENT	T&G	TONGUE AND GROOVE
FNDN	FOUNDATION	TEMP GL	TEMPERED GLASS
FOC	FACE OF CONCRETE	THK	THICK(NESS)
FOF	FACE OF FINISH	THRU	THROUGH
FOM	FACE OF MASONRY	TI	TENANT IMPROVEMENT
FOS	FACE OF STUD(S)	TOB	TOP OF BEAM
FS	FULL SIZE	TOC	TOP OF CURB
FT	FOOT OR FEET	TOF	TOP OF FOOTING
FTG	FOOTING	TOG	TOP OF GRADE
GA	GAUGE	TOP	TOP OF PAVEMENT
GALV	GALVANIZED	TOPL	TOP OF PLATE
GC	GENERAL CONTRACTOR	TOS	TOP OF SLAB
GLU-LAM	GLUE-LAMINATED	TOW	TOP OF WALL
GSM	GALVANIZED SHEET METAL	TV	TELEVISION
GYP BD	GYPSUM WALLBOARD	TYP	TYPICAL
HB	HOSE BIBB	UE	UTILITY EASEMENT
HC	HOLLOW CORE	UNO	UNLESS NOTED OTHERWISE
HM	HOLLOW METAL	URNAL	URNAL
HORIZ	HORIZONTAL	VERT	VERTICAL
HR	HOUR	VG	VERTICAL GRAIN
HRDW	HARDWARE	VT	VINYL TILE
HT	HEIGHT	VTR	VENT THROUGH ROOF
HVAC	HEATING, VENTILATION & AIR CONDITIONING	W	WASHER
HW	HOT WATER	W/	WITH
ID	INSIDE DIAMETER	WC	WATER CLOSET
ICC	INTERNATIONAL CODE COUNCIL	WD	WOOD
IN	INCH	WH	WATER HEATER
INCL	INCLUDE(D)	WI	WROUGHT IRON
INT	INTERIOR	WDO	WINDOW
ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY	W/O	WITHOUT
LAM	LAMINATED	WT	WEIGHT
LAV	LAVATORY	WWM	WIRE WELDED MESH
LL	LIVE LOAD	YD	YARD

GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED BY THE LOCAL BUILDING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
 - 2016 CALIFORNIA ADMINISTRATIVE CODE (CAC)
 - 2016 CALIFORNIA BUILDING CODE (CBC)
 - 2016 CALIFORNIA ELECTRICAL CODE (CEC)
 - 2016 CALIFORNIA MECHANICAL CODE (CMC)
 - 2016 CALIFORNIA PLUMBING CODE (CPC)
 - 2016 CALIFORNIA ENERGY CODE (CEC) AND THE LATEST NONRESIDENTIAL CEC ENERGY STANDARDS.
 - 2016 CALIFORNIA FIRE CODE (FC) AND THE MOST RECENT EDITION OF NFPA AS APPLICABLE.
 - 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGSBG)
 - COUNTY OF FRESNO ORDINANCE CODE, TITLE 15
- THE GENERAL CONTRACTOR SHALL STRICTLY OBSERVE ALL CODES HAVING JURISDICTION IN THE CONSTRUCTION OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, ALL APPLICABLE FEDERAL, STATE, COUNTY, CITY OR GOVERNING AGENCIES, ZONING CODES, PLANNING CODE, BUILDING CODE, MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, FIRE CODE OR ANY OTHER CODES, RULES, REGULATIONS AND/OR SUB-CONTRACTORS SHALL VERIFY ALL CODE REQUIREMENTS BEFORE COMMENCEMENT OF CONSTRUCTION AND BRING ANY DISCREPANCIES BETWEEN CODE REQUIREMENTS AND THE CONSTRUCTION DOCUMENTS TO THE ATTENTION OF THE ARCHITECT. ICC APPROVED NUMBERS ARE CITED THROUGHOUT THESE NOTES AS A STANDARD. MATERIALS REQUIRING OTHER JURISDICTIONAL APPROVALS MUST BE PROVIDED.
- THIS IS A BUILDER SET OF DRAWINGS PREPARED TO A LEVEL OF COMPETENT SATISFACTORY FOR BUILDING PERMITS PURPOSES AT THE TIME OF THEIR PREPARATION AND FOR CONSTRUCTION BY A KNOWLEDGEABLE AND EXPERIENCED BUILDER FAMILIAR WITH THIS TYPE OF WORK. SUCH DOCUMENTS WILL REQUIRE PREPARATION AND SUPPLEMENTAL DETAILS, PRODUCT SPECIFICATIONS AND ELABORATION AND INTERPRETATION BY EXPERIENCED CONTRACTORS, SUB-CONTRACTORS AND OWNER'S INDEPENDENT CONSULTANTS.
- ALL CONTRACTORS, SUBCONTRACTORS, VENDORS AND MATERIAL SUPPLIERS SHALL BE RESPONSIBLE FOR REVIEWING THE COMPLETE SET OF DOCUMENTS AS SHOWN IN THE SHEET INDEX. FAILURE TO REVIEW DOCUMENTS WILL NOT RELIEVE ANY CONTRACTORS, SUB-CONTRACTORS, VENDORS OR MATERIAL SUPPLIERS FROM PERFORMING WORK OR PROVIDING MATERIALS REQUIRED FOR THE COMPLETION OF THIS PROJECT AS DEFINED WITHIN THE DOCUMENTS AT TIME OF BID.
- THE ARCHITECT DOES NOT GUARANTEE THE GENERAL CONTRACTOR'S AND/OR SUB-CONTRACTOR'S CONTRACT PERFORMANCE AND NO PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE GENERAL CONTRACTOR AND/OR SUB-CONTRACTOR FROM ANY LIABILITY DUE TO GENERAL CONTRACTOR'S AND/OR SUB-CONTRACTOR'S PERFORMANCE, INCOMPLETE WORK OR ERRORS OF OMISSION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ACTIONS OF HIS SUPERINTENDENTS AND SUBCONTRACTORS DURING THE COURSE OF ANY WORK OCCURRING ON THE SITE. THE CONTRACTOR SHALL TAKE ALL RESPONSIBILITY FOR HIS SUBCONTRACTORS AND SHALL NOT ALLOW THEM TO WORK ON, PLACE DEBRIS ON, STORE SUPPLIES OR EQUIPMENT ON, OR IN ANY OTHER WAY ENCROUGH UPON ANY OTHER PROPERTIES WITHOUT THE WRITTEN PERMISSION OF SUCH PROPERTY OWNERS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTING DATA PRIOR TO COMMENCEMENT OF ANY WORK.
- THE GENERAL CONTRACTOR AND/OR SUB-CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS AT THE JOB SITE SUFFICIENTLY IN ADVANCE OF WORK TO BE PERFORMED TO ASSURE THE ORDERLY PROGRESS OF THE WORK. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT EACH SUB-CONTRACTOR PERFORMS THE WORK IN ACCORDANCE WITH ALL CODES IN A TIMELY MANNER TO FACILITATE COORDINATION WITH OTHER SUB-CONTRACTORS.
- GENERAL CONTRACTOR SHALL COORDINATE WORK PERFORMED BY OTHER CONTRACTORS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE OWNER'S ATTENTION BEFORE PROCEEDING WITH WORK.
- THE CONTRACTOR SHALL PROVIDE DUST CONTROL AND INTERIM CLEANUP FOR THIS PROJECT DURING ALL PHASES OF THE WORK.
- EACH CONTRACTOR SHALL LEAVE THE SITE IN A NEAT, CLEAN AND ORDERLY CONDITION UPON THE COMPLETION OF HIS WORK ON A DAILY BASIS. AREA OF WORK TO BE DUSTED, SWEPT AND MOPPED TO SAME CONDITION AS START OF WORK. ALL WASTE, RUBBISH AND EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE PROMPTLY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL TRASH, INCLUDING TRASH GENERATED FROM THE OWNER FURNISHED ITEMS AND BY OWNER'S CONTRACTORS FOR THE DURATION OF THE PROJECT.
- THE GENERAL CONTRACTOR SHALL PROVIDE ADEQUATE FIRE PROTECTION FOR THE AREA UNDER CONSTRUCTION FOR THE DURATION OF THE WORK.
- THE GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY ENCLOSURES FOR PROTECTION OF EXISTING BUILDING AND CONSTRUCTION, IN PROGRESS AND COMPLETED, FROM UNAUTHORIZED ACCESS INTO

FIRE PROTECTION NOTES

- THE TENANT SPACE SHALL BE PROVIDED WITH PORTABLE FIRE EXTINGUISHERS PER NFPA 10, 2-A-10-B-C RATED MINIMUM WITH A MAXIMUM 75 FOOT TRAVEL DISTANCE AND ONE FOR EVERY 6,000 SQUARE FEET (LIGHT HAZARD) (2016 CFC, SECTION 906.3). PROVIDE FOUR (4) MINIMUM MOUNTED IN ACCORDANCE WITH NFPA 10.
- REGARDLESS OF OCCUPANT LOAD SERVED, EXIT DOORS INDICATED ON THE DRAWINGS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- PROVIDE ALL REQUIRED IDENTIFICATION SIGNS.
- THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE TO DESIGN AND INSTALL A FIRE SPRINKLER SYSTEM CONFORMING TO NFPA 13, RELATED STANDARDS, THE COUNTY OF FRESNO AND FIRE PREVENTION BUREAU REQUIREMENTS.
- THE FIRE SPRINKLER CONTRACTOR SHALL SUBMIT PLANS TO THE ARCHITECT FOR REVIEW OF COMPATIBILITY WITH THE BUILDING DESIGN.
- THE FIRE SPRINKLER CONTRACTOR SHALL SUBMIT PLANS TO AND OBTAIN PERMIT FROM THE FIRE PREVENTION DIVISION FOR THE INSTALLATION OR MODIFICATION OF FIRE SPRINKLER SYSTEM.
- THE ALARM UNIT SHALL BE AN APPROVED, WEATHERPROOF WATER GONGS WITH ONE OUTDOOR ALARM. IF ELECTRIC BELL IS USED, IT IS TO BE WIRED IN FRONT OF MAIN DISCONNECT.
- PERFORM ALL TESTS REQUIRED BY THE LOCAL AUTHORITY FOR APPROVAL.
- OBTAIN PERMIT FROM THE FIRE PREVENTION DIVISION (OVER THE COUNTER) FOR FIRE SPRINKLER ALARM SUPERVISION. SUPERVISION IS REQUIRED ON ALL FIRE SPRINKLER SYSTEMS WITH 7 OR MORE SPRINKLER HEADS. 2016 CFC, SECTION 903.4. INSTALLATIONS MUST ALSO COMPLY WITH FPD POLICY SECTIONS 405 AND 401. FPD POLICIES CAN BE FOUND AT: <https://www.fresno.gov/fire-training/manuals-and-forms/>
- PROVIDE ADEQUATE WATER SUPPLY REQUIRED FOR FIRE SPRINKLER SYSTEM.
- SUBMIT METHOD OF FIRE STOPPING TO BUILDING INSPECTOR FOR APPROVAL.
- SUBMIT PLANS TO AND OBTAIN PERMIT FROM THE FIRE PREVENTION DIVISION FOR THE INSTALLATION OR MODIFICATION OF FIRE ALARM SYSTEM. SEE FPD DEVELOPMENT POLICY 401.012.
- ALL OUTLET BOXES IN FIRE-RESISTIVE ASSEMBLIES SHALL BE RATED AND SHALL BE A MAXIMUM SIZE OF 16 SQUARE INCHES (USE STEEL ONLY FOR ASSEMBLIES RATED MORE THAN ONE-HOUR). ALL OUTLET BOXES IN FIRE-RESISTIVE ASSEMBLIES SHALL BE SEPARATED BY A MINIMUM OF 24 INCHES HORIZONTALLY. ELECTRICAL PANELS ARE NOT PERMITTED IN FIRE-RATED ASSEMBLIES.
- SPRINKLERS SHALL BE INSTALLED UNDER EXTERIOR ROOFS OR CANOPIES EXCEEDING 4 FEET IN WIDTH. OBTAIN PERMIT FROM FRESNO FIRE PREVENTION DIVISION FOR THE INSTALLATION OF FIRE SPRINKLER SYSTEMS. 2016 NFPA 13 AND FPD POLICY NO. 405.019. EXCEPTION: SPRINKLERS ARE PERMITTED TO BE OMITTED WHERE THE CANOPY OR ROOF IS OF NONCOMBUSTIBLE OR LIMITED COMBUSTIBLE CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL COORDINATE THE FIRE ALARM SYSTEM INTERFACES BETWEEN THE FIRE ALARM CONTRACTOR, SPRINKLER CONTRACTOR, MECHANICAL CONTRACTOR AND ANY OTHER PERTINENT TRADES (FIRE ALARM, SPRINKLER SYSTEM, HOOD AND VENT EXTINGUISHING SYSTEM, HVAC, FIRE SMOKE DAMPERS, ETC.). ALL WORK MUST REMAIN VISIBLE AND MAY NOT BE COVERED UNTIL THE REQUIRED FIRE INSPECTIONS HAVE BEEN COMPLETED BY THE FIRE DEPARTMENT.
- SUBMIT PLANS (THREE SETS) TO AND OBTAIN PERMIT FROM THE FIRE PREVENTION DIVISION FOR THE INSTALLATION OF THE ABOVE GROUND FUEL TANKS AND EMERGENCY GENERATOR.



Project:
 Sheriff Area 2 Sub-Station
 11220 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 190023 / 19003
 FILE NAME: 19003_A0-2_Notes

Sheet Content:
 NOTES AND ABBREVIATIONS



Sheet No.
 A0.2

METAL BUILDING DESIGN CRITERIA

THE FOLLOWING CRITERIA SHALL BE USED IN THE DESIGN OF THE METAL BUILDING:

Material Specifications

- Primary Framing: Web Plates, ASTM A529, A572, A1011, Grade 55 Flanges, ASTM A529, A572, Grade 55
- Secondary Framing: Galvanized 16ga, 15ga, 14ga, 13ga, 12ga, ASTM A653 G40, Grade 55, Min. Yield 55 ksi.
- Columns: Pipe, ASTM A53 Grade B, Min. Yield 35 ksi. Round H55, ASTM A500 Grade B, Min. Yield 42 ksi. Rect. H55, ASTM A500 Grade B, Min. Yield 46 ksi.
- Bolts: High Strength Bolts, ASTM A325-N, Washer under turning element. Machine Bolts, ASTM A307. Anchor Bolts (Not By Steel Building manufacturer) Sized Based on A36 Material.
- Shop Coating: All Steel members except galvanized secondary framing, cables, bolts and screws shall receive one shop coat.

Codes & Specifications

The design of this structure shall be in compliance with the Steel Building manufacturer specifications and standards, utilizing the pertinent provisions and recommendations of the following Codes.

- California Building Code, 2016 Edition (CBC 2016).
- American Institute of Steel Construction, Fourteenth Edition (AISC 360-10 & AISC 341-10).
- American Iron and Steel Institute, 2012 Edition (AISI 5100-12).
- Metal Building Manufacturers Association, 2012 Edition (MBMA, 2012).
- American Welding Society, Structural Welding Code (AWS D1.1, 2010).

Inspections

- Shop Welding inspection is not required according to the approved status of the above Certifications. No field welding should be required by Steel Building manufacturer. However, if any field welding is required due to any field modifications, special inspection is required.
- Special inspection is required for high strength bolts. The Turn of the Nut method of tightening is recommended, under the supervision of an independent testing laboratory. Alternate methods of tightening may be used as permitted in the Specification for Structural Joints Using ASTM A325 or A490 Bolts (AISC Fourteenth Edition). CBC Steel Buildings shall not be responsible for administration or costs associated with the inspection process.

Special Bolting Connection Inspection Req. (Made with A325 Bolts)

- Pre-tensioning of A325 bolts is required on primary framing, bolted bracing, and strut connections if located in seismic performance/ design category "D", "E" or "F".
- Slip critical connections should not be required by Steel Building manufacturer.

Design Loads

The steel building shall be designed utilizing the following loads, in compliance with the pertinent provisions of the California Building Code, 2016 Edition (CBC 2016).

All accessories such as doors, windows, etc. not by Steel Building manufacturer, must be designed as Structural Components in accordance with the Wind Load provisions of the applicable Codes and Specifications referenced on this page.

The Builder and/or the Engineer of Record must confirm that the following loads meet the requirements of the local building department.

Building Dead Load	1.0 psf
Collateral Load	5.0 psf
Live Load	20 psf
Live Load Reduction Allowed	Yes
Snow Load, Roof	0 psf
Snow Load, Ground	0 psf
Ce	1.0
Imp. Factor	1.2

Wind Load, Speed	115 mph (3-sec gust)
Exposure	C
Wind Enclosure	Enclosed
Imp. Factor	1.0
Kzt	1.0

Earthquake Load Risk Category: IV

Imp. Factor: 1.5

Ss = 59.30% S1 = 24.60%

Sds = 0.52 Sd1 = 0.31

Seismic Site Class: D

Seismic Design Category: D

Equivalent Lateral Force Procedure

Lateral Direction: Ordinary Moment Frame (OMF)

R = 3.5, Omega = 3.0, V = Csn, Cs = 0.22

Longitudinal Direction: Ordinary Moment Frame (OMF)

R = 3.50, Omega = 3.0, V = Csn, Cs = 0.22

TYPICAL CURB RAMP NOTES

- CURB RAMPS SHALL COMPLY WITH [CBC SECTION 11B-406](#).
- CURB RAMPS SHALL HAVE DETECTABLE WARNINGS COMPLYING WITH [CBC SECTIONS 11B-705.11 AND 11B-705.12.2](#).
- CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED CARS.
- RAMP(S) SHALL BE A MINIMUM OF 4' WIDE AND SHALL LIE GENERALLY IN A SINGLE SLOPED PLANE WITH A MINIMUM OF SURFACE WARPING AND CROSS SLOPE.
- RAMP RUN(S) SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12.
- WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10.
- THE CROSS SLOPE OF RAMPS AND/OR WALKS SHALL NOT BE STEEPER THAN 1:48.
- THE SLOPE OF LANDINGS, ACCESSIBLE PARKING SPACES AND UNLOADING ZONES SHALL NOT BE STEEPER THAN 1:48 IN ANY DIRECTION.
- COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO AND WITHIN 24 INCHES OF THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL.
- THERE SHALL BE A SEGMENT OF STRAIGHT CURB, AT LEAST 24 INCHES LONG ON EACH SIDE OF THE CURB RAMP.
- PROVIDE LEVEL LANDING OF AT LEAST 48" ON UPPER END AND OVER FULL WIDTH OF RAMP.
- THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20 ALONG PATH OF TRAVEL FROM THE LEVEL LANDING AT THE TOP OF CURB RAMP TO THE LEVEL LANDING AT THE MAIN ENTRY.
- TRANSITIONS FROM RAMPS AND LANDINGS TO WALKS, GUTTERS OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
- SURFACE OF CURB RAMP AND FLARED SIDES SHALL HAVE BROOM FINISH TRANSVERSE TO PATH OF TRAVEL AND SHALL BE OF CONTRASTING FINISH TO THAT OF ADJACENT SIDEWALK.

ACCESSIBLE SIGNAGE NOTES

- GENERAL. (CBC 11B-703.1)**
WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED.
- RAISED CHARACTERS. (CBC 11B-703.2)**
 - RAISED CHARACTERS SHALL BE 1/32" MIN ABOVE THEIR BACKGROUND.
 - CHARACTERS SHALL BE UPPERCASE.
 - CHARACTERS SHALL BE SANS SERIF, CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
 - CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER "I".
 - CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" MIN AND 2" MAX BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
 - STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAX OF THE HEIGHT OF THE CHARACTER.
 - CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES, WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" MIN AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX, WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16" MIN AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX AT THE BASE OF THE CROSS SECTIONS, AND 1/8" MIN AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8" MIN.
 - SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 195% MIN AND 170% MAX OF THE RAISED CHARACTER HEIGHT.
 - TEXT SHALL BE IN A HORIZONTAL FORMAT.
- BRAILLE. (CBC 11B-703.3)**
BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH THE FOLLOWING:
 - BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.
 - BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8" MIN AND 1/2" MAX FROM ANY OTHER TACTILE CHARACTERS AND 3/8" MIN FROM RAISED BORDERS AND DECORATIVE ELEMENTS.
- INSTALLATION HEIGHT AND LOCATION. (CBC 11B-703.4)**
SIGNS WITH TACTILE CHARACTERS SHALL COMPLY WITH THE FOLLOWING:
 - TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48" MIN ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60" MAX ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.
 - WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE, WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF, WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR, WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" MIN BY 18" MIN, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION, WHERE PROVIDED. SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES SHALL BE LOCATED AT THE ENTRANCE TO, AND OUTSIDE OF THE ROOM OR SPACE, WHERE PROVIDED, SIGNS IDENTIFYING EXITS SHALL BE LOCATED AT THE EXIT DOOR WHEN APPROACHED IN THE DIRECTION OF EGRESS TRAVEL.
- NOT USED.
- PICTOGRAMS. (CBC 11B-703.6)**
 - PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6" MIN. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.
 - PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD.
 - PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT DESCRIPTORS SHALL COMPLY WITH NOTES 2, 3, AND 4 ABOVE.
- SYMBOLS OF ACCESSIBILITY. (CBC 11B-703.7)**
 - SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND.**
 - THE INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) SHALL COMPLY WITH [DETAIL A16/A0.3](#). THE SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE COLOR BLUE SHALL APPROXIMATE FS 15040 IN FEDERAL STANDARD 595C.**

SITE ACCESSIBILITY NOTES

- ACCESSIBLE PARKING STALLS AND BUILDING ACCESS SHALL MEET OR BE BROUGHT UP TO CURRENT TITLE 24 STANDARDS. THIS SHALL INCLUDE, BUT IS LIMITED TO, THE FOLLOWING:
- CHANGES IN LEVEL OF 1/4 INCH HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH MINIMUM AND 1/2 INCH HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. CHANGES IN LEVEL GREATER THAN 1/2 INCH HIGH SHALL BE RAMPED. ([11B-403.3](#))
 - THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48. ([11B-403.3](#))
 - THE CLEAR WIDTH FOR SIDEWALKS AND WALKS SHALL BE 48 INCHES MINIMUM. ([11B-403.5](#))
 - EXTERIOR LANDINGS AT DOORS SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE, SHALL EXTEND A MINIMUM OF 60 INCHES BEYOND DOOR, SHALL HAVE A MAXIMUM SLOPE OF 1:48 IN ANY DIRECTION, AND SHALL HAVE A SMOOTH TRANSITION TO ADJACENT PAVED SURFACE. ([11B-404.2.4](#))
 - THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE 1/2 INCH MAXIMUM AND SHALL COMPLY WITH NOTE 1 ABOVE. ([11B-404.2.5](#))
 - RAMPS ON ACCESSIBLE ROUTES SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12. CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48. THE CLEAR WIDTH OF A RAMP RUN SHALL BE 48 INCHES MINIMUM. THE RISE FOR ANY RAMP RUN SHALL BE 30 INCHES MAXIMUM. RAMPS SHALL HAVE LANDINGS AT THE TOP AND THE BOTTOM OF EACH RAMP RUN. ([11B-405](#))
 - RAMP RUNS SHALL HAVE HANDRAILS EXCEPT AT CURB RAMPS AND AT DOOR LANDINGS WHERE RAMP RUNS ARE LESS THAN 6 INCHES IN RISE OR 12 INCHES IN LENGTH. ([11B-405.8](#))
 - ACCESSIBLE PARKING SPACES SHALL BE 216 INCHES (18 FT) LONG MINIMUM AND 108 INCHES (9 FT) WIDE MINIMUM, SHALL BE MARKED TO DEFINE THE WIDTH, AND SHALL HAVE AN ADJACENT ACCESS AISLE. ([11B-502.2](#))
 - ACCESS AISLES SERVING PARKING SPACES SHALL ADJOIN AN ACCESSIBLE ROUTE, SHALL BE 60 INCHES (5 FT) WIDE MINIMUM AT CAR ACCESSIBLE PARKING SPACES AND 46 INCHES (8 FT) WIDE MINIMUM AT VAN ACCESSIBLE PARKING SPACES, AND SHALL EXTEND THE FULL REQUIRED LENGTH OF THE PARKING SPACES THEY SERVE. ([11B-502.3](#))
 - ACCESS AISLES SHALL BE MARKED WITH A BLUE PAINTED BORDERLINE AROUND THEIR PERIMETER. THE AREA WITHIN THE BLUE BORDERLINES SHALL BE MARKED WITH HATCHED LINES A MAXIMUM OF 36 INCHES (3 FT) ON CENTER IN A COLOR CONTRASTING WITH THAT OF THE AISLE SURFACE, PREFERABLY BLUE OR WHITE. THE WORDS "NO PARKING" SHALL BE PAINTED ON THE SURFACE WITHIN EACH ACCESS AISLE IN WHITE LETTERS A MINIMUM OF 12 INCHES (1 FT) IN HEIGHT AND LOCATED TO BE VISIBLE FROM THE ADJACENT VEHICULAR WAY. ACCESS AISLE MARKINGS MAY EXTEND BEYOND THE MINIMUM REQUIRED LENGTH.
 - ACCESS AISLES SHALL NOT OVERLAP THE VEHICULAR WAY. ACCESS AISLES SHALL BE PERMITTED TO BE PLACED ON EITHER SIDE OF THE PARKING SPACE EXCEPT FOR VAN PARKING SPACES WHICH SHALL HAVE ACCESS AISLES LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACES.
 - ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY SERVE. CHANGES IN LEVEL ARE NOT PERMITTED. SLOPE OF ACCESS AISLE SHALL NOT EXCEED 1:48 IN ANY DIRECTION. ([11B-502.4](#))
 - EACH ACCESSIBLE PARKING SPACE SHALL HAVE AN IDENTIFICATION SIGN PER [DETAIL J5/A1.5](#). ([11B-502.6](#))
 - EACH ACCESSIBLE PARKING SPACE SHALL HAVE SURFACE IDENTIFICATION PER [DETAIL N1/A1.5](#). ([11B-502.6.4](#))
 - AN ADDITIONAL SIGN SHALL BE POSTED EITHER: 1) IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO AN OFF-STREET PARKING FACILITY OR 2) IMMEDIATELY ADJACENT TO ON-SITE ACCESSIBLE PARKING AND VISIBLE FROM EACH PARKING SPACE. SEE [DETAIL A5/A1.5](#). ([11B-502.8](#))

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NOTES

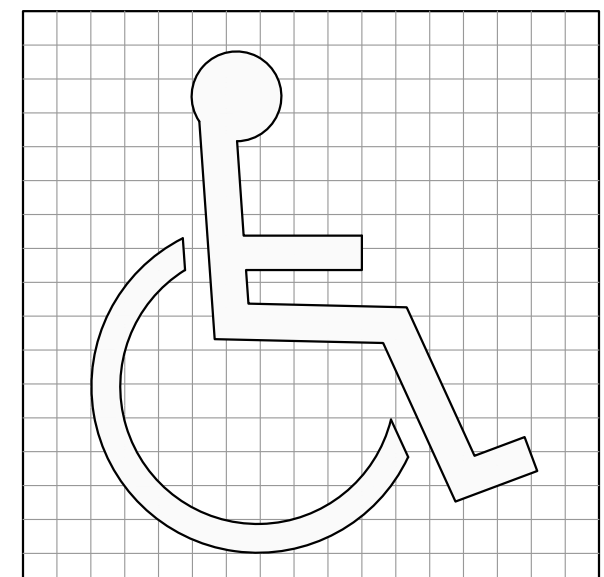
Fresno County Department of Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
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Sheet No.

A0.3



INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA)

A16	ISA
A0.3	SCALE: NONE

GREEN BUILDING GUIDELINES

1. PER CA GBSC 5.408.1, PROVIDE CONSTRUCTION WASTE MANAGEMENT. RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION WASTE IN ACCORDANCE WITH SECTION 5.408.1.1, 5.408.1.2 OR 5.408.1.3; OR MEET A LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT.
2. PER CA GBSC 5.408.1.1, ESTABLISH A CONSTRUCTION WASTE MANAGEMENT PLAN. WHERE A LOCAL JURISDICTION DOES NOT HAVE A CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE THAT IS MORE STRINGENT, SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN THAT
2.1. IDENTIFIES THE CONSTRUCTION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
2.2. DETERMINES IF CONSTRUCTION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK-MIXED (SINGLE STREAM).
2.3. IDENTIFIES DIVERSION FACILITIES WHERE CONSTRUCTION WASTE MATERIAL COLLECTED WILL BE TAKEN.
2.4. SPECIFICS THAT THE AMOUNT OF CONSTRUCTION WASTE MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.
3. PER CA GBSC 5.408.1.2, UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH THIS SECTION.
NOTE: THE OWNER OR CONTRACTOR SHALL MAKE THE DETERMINATION IF THE CONSTRUCTION WASTE MATERIAL WILL BE DIVERTED BY A WASTE MANAGEMENT COMPANY.
4. EXCEPTIONS TO ITEMS 2 AND 3 ABOVE (SECTIONS 5.408.1.1 AND 5.408.1.2):
4.1. EXCAVATED SOIL AND LAND-CLEARING DEBRIS
4.2. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST.
4.3. DEMOLITION WASTE MEETING LOCAL ORDINANCE OR CALCULATED IN CONSIDERATION OF LOCAL RECYCLING FACILITIES AND MARKETS, WHERE DEMOLITION OF AN EXISTING STRUCTURE(S) IS NECESSARY FOR THE CONSTRUCTION OF A NEW STRUCTURE.
5. PER CA GBSC 5.408.1.3, THE COMBINED WEIGHT OF NEW CONSTRUCTION DISPOSAL THAT DOES NOT EXCEED 2 LBS/SQ. FT. OF BUILDING AREA MAY BE DEEMED TO MEET THE 65 PERCENT MINIMUM REQUIREMENT AS APPROVED BY THE ENFORCING AGENCY.
6. PER CA GBSC 5.408.1.4, DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH ITEMS 2 THRU 5 ABOVE (SECTIONS 5.408.1.1 THROUGH 5.408.1.3). THE WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE ACCESSIBLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY.
6.1. SAMPLE FORMS FOUND IN 'A GUIDE TO THE CALIFORNIA GREEN BUILDING STANDARDS CODE (NONRESIDENTIAL)' LOCATED AT HTTP://WWW.BSC.CA.GOV/CALGREEN/DEFAULT.HTM MAY BE USED TO ASSIST IN DOCUMENTING COMPLIANCE WITH THE WASTE MANAGEMENT PLAN.
6.2. MIXED CONSTRUCTION AND DEMOLITION DEBRIS (C&D) PROCESSORS CAN BE LOCATED AT THE CALIFORNIA DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY (CALRECYCLE).
7. PER CA GBSC 5.408.2 [A], ADDITIONS AND ALTERATIONS TO A BUILDING OR TENANT SPACE THAT MEET THE SCOPING PROVISIONS IN SECTION 301.3 FOR NONRESIDENTIAL ADDITIONS AND ALTERATIONS, SHALL REQUIRE VERIFICATION THAT UNIVERSAL WASTE ITEMS SUCH AS FLUORESCENT LAMPS AND BALLAST AND MERCURY CONTAINING THERMOSTATS AS WELL AS OTHER CALIFORNIA PROHIBITED UNIVERSAL WASTE MATERIALS ARE DISPOSED OF PROPERLY AND ARE DIVERTED FROM LANDFILLS. A LIST OF PROHIBITED UNIVERSAL WASTE MATERIALS SHALL BE INCLUDED IN THE CONSTRUCTION DOCUMENTS.
NOTE: REFER TO THE UNIVERSAL WASTE RULE LINK AT: HTTP://WWW.DTSC.CA.GOV/LANRREGSPOLICIES/REG59/UPLDAD/OEARA_REG59_UWR_FINALTEXT.PDF
8. PER CA GBSC 5.408.3, 100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED. FOR A PHASED PROJECT, SUCH MATERIAL MAY BE STOCKPILED ON SITE UNTIL THE STORAGE SITE IS DEVELOPED.
EXCEPTION: REUSE, EITHER ON-OR OFF-SITE, OF VEGETATION OR SOIL CONTAMINATED BY DISEASE OR PEST INFESTATION.
8.1. IF CONTAMINATION BY DISEASE OR PEST INFESTATION IS SUSPECTED, CONTACT THE COUNTY AGRICULTURAL COMMISSIONER AND FOLLOW HIS DIRECTION FOR RECYCLING OR DISPOSAL OF THE MATERIAL (WWW.CDFA.CA.GOV/EXEC/COUNTY/COUNTY_CONTACTS.HTML)
8.2. FOR A MAP OF KNOWN PEST AND/OR DISEASE QUARANTINE ZONES, CONSULT WITH THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE (WWW.CDFA.CA.GOV)
9. PER CA GBSC 5.410.1, OWNER SHALL PROVIDE READILY ACCESSIBLE AREAS THAT SERVE THE ENTIRE BUILDING AND ARE IDENTIFIED FOR THE DEPOSITING, STORAGE AND COLLECTION OF NON-HAZARDOUS MATERIALS FOR RECYCLING, INCLUDING (AT A MINIMUM) PAPER, CORRUGATED CARDBOARD, GLASS, PLASTICS, ORGANIC WASTE, AND METALS.

10. PER CA GBSC 5.410.4.2, CONTRACTOR SHALL DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE, AS APPLICABLE TO THE PROJECT:
10.1. HVAC SYSTEMS AND CONTROLS
10.2. INDOOR AND OUTDOOR LIGHTING AND CONTROLS
10.3. WATER HEATING SYSTEMS
10.4. LANDSCAPE IRRIGATION SYSTEMS
11. PER CA GBSC 5.410.4.3, CONTRACTOR SHALL PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPLICABLE STANDARDS ON EACH SYSTEM.
12. PER CA GBSC 5.410.4.4, AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, CONTRACTOR SHALL PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
13. PER CA GBSC 5.410.4.5, CONTRACTOR SHALL PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTEES/WARRANTIES FOR EACH SYSTEM. OIM INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CGR, TITLE 8, SECTION 3142, AND OTHER RELATED REGULATIONS. CONTRACTOR SHALL ALSO INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.
14. PER CA GBSC 5.504.1, THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE(MERV) OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30 PERCENT BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.
15. PER CA GBSC 5.504.3, AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING 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 AND DEBRIS WHICH MAY ENTER THE SYSTEM.
16. PER CA GBSC 5.504.4.1, ADHESIVES, SEALANTS, AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
16.1. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE, OR SCAGMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLES 5.504.4.1 AND 5.504.4.2. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS AS SPECIFIED IN SUBSECTION 2, BELOW.
16.2. AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT THAN ONE POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.
17. PER CA GBSC TABLE 5.504.4.1 (PARTIAL LIST BELOW) ADHESIVE VOC LIMIT (SEE NOTES 1,2) Less Water and Less Exempt Compounds in Grams Per Liter
ARCHITECTURAL APPLICATIONS CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES 50
CARPET PAD ADHESIVES 50
GERAMIC TILE ADHESIVES 65
VCT AND ASPHALT TILE ADHESIVES 50
COVE BASE ADHESIVES 50
MULTIPURPOSE CONSTRUCTION ADHESIVES 70
SPECIALTY APPLICATIONS
PVC WELDING 510
CPVC WELDING 490
ABS WELDING 325
PLASTIC CEMENT WELDING 250
ADHESIVE PRIMER FOR PLASTIC 550
CONTACT ADHESIVE 80
SPECIAL PURPOSE CONTACT ADHESIVE 250
TOP AND TRIM ADHESIVE 250
SUBSTRATE SPECIFIC APPLICATIONS
METAL TO METAL 30
PLASTIC FOAMS 50
POROUS MATERIAL (EXCEPT WOOD) 50
WOOD 30
FIBERGLASS 80
NOTES:
17.1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
17.2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, HTTP://WWW.ARB.CA.GOV/DRDB/SC/CURHTML/R1168.PDF.

18. PER CA GBSC TABLE 5.504.4.2 (PARTIAL LIST BELOW) SEALANT VOC LIMIT Less Water and Less Exempt Compounds in Grams Per Liter
SEALANTS CURRENT VOC LIMIT
ARCHITECTURAL 250
NONMEMBRANE ROOF300
ROADWAY 250
OTHER 420
SEALANT PRIMERS
ARCHITECTURAL
NONPOROUS 250
POROUS 775
MODIFIED BITUMINOUS 500
OTHER 750
NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.
19. PER CA GBSC 5.504.4.3, ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 1 OF THE ARB ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, AS SHOWN IN TABLE 5.504.4.3, UNLESS MORE STRINGENT LOCAL LIMITS APPLY. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN TABLE 5.504.4.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS A FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUBSECTIONS 4.21, 4.36 AND 4.37 OF THE 2007 CALIFORNIA AIR RESOURCES BOARD SUGGESTED CONTROL MEASURE, AND THE CORRESPONDING FLAT, NONFLAT OR NONFLAT-HIGH GLOSS VOC LIMIT IN TABLE 5.504.4.3 SHALL APPLY.
20. PER CA GBSC 5.504.4.3.1, AEROSOL PAINTS AND COATINGS SHALL MEET THE PM10 LIMITS FOR ROG IN SECTION 94522(A)(3) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(G)(2) AND (D)(2) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520; AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8 RULE 44.
21. PER CA GBSC TABLE 5.504.4.3 (PARTIAL LIST BELOW) VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS (Notes 2, 3) Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds
COATING CATEGORY
FLAT COATINGS50
NONFLAT COATINGS 100
NONFLAT HIGH GLOSS COATINGS 150
SPECIALTY COATINGS
BOND BREAKERS 350
CONCRETE CURING COMPOUNDS350
CONCRETE/MASONRY SEALERS 100
DRIVEWAY SEALERS 50
DRY FOG COATINGS 150
FLOOR COATINGS 100
FORM-RELEASE COMPOUNDS 250
GRAPHIC ARTS COATINGS (SIGN PAINTS) 500
INDUSTRIAL MAINTENANCE COATINGS 250
LOW SOLIDS COATINGS (Note 1)(120)
PRETREATMENT WASH PRIMERS 420
PRIMERS, SEALERS AND UNDERCOATERS 100
REACTIVE PENETRATING SEALERS 350
TRAFFIC MARKING COATINGS 100
ZINC-RICH PRIMERS 340
NOTES:
21.1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER AND INCLUDING EXEMPT COMPOUNDS.
21.2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
21.3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEBRUARY 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.
22. PER CA GBSC 5.504.4.3.2, VERIFICATION OF COMPLIANCE WITH SECTION 5.504.4.3 SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY. DOCUMENTATION MAY INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:
22.1. MANUFACTURER'S PRODUCT SPECIFICATION
22.2. FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS
23. PER CA GBSC 5.504.4.4, ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING:
23.1. CARPET AND RUG INSTITUTES GREEN LABEL PLUS PROGRAM
23.2. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01950)
23.3. NSF/ANSI 140 AT THE GOLD LEVEL OR HIGHER
23.4. SCIENTIFIC CERTIFICATIONS SYSTEMS SUSTAINABLE CHOICE
24. PER CA GBSC 5.504.4.4.1, ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTES GREEN LABEL PROGRAM.
25. PER CA GBSC 5.504.4.4.2, ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 5.504.4.1.
26. PER CA GBSC 5.504.4.5, HARDWOOD PLYWOOD, PARTICLE BOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE

REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD (17 CGR 93120 ET SEQ.), BY OR BEFORE THE DATES SPECIFIED IN THOSE SECTIONS, AS SHOWN IN TABLE 5.504.4.5.
27. PER CA GBSC TABLE 5.504.4.5 FORMALDEHYDE LIMITS (Note 1) Maximum Formaldehyde Emissions in Parts Per Million.
PRODUCT CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE 0.05
HARDWOOD PLYWOOD COMPOSITE CORE 0.05
PARTICLE BOARD 0.09
MEDIUM DENSITY FIBERBOARD 0.11
THIN MEDIUM DENSITY FIBERBOARD (Note 2) 0.13
27.1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1393-96 (2002), FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
27.2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF EIGHT MILLIMETERS.
28. PER CA GBSC 5.504.4.5.3, VERIFICATION OF COMPLIANCE WITH SECTION 5.504.4.5 SHALL BE PROVIDED AS REQUESTED BY THE ENFORCING AGENCY. DOCUMENTATION SHALL INCLUDE AT LEAST ONE OF THE FOLLOWING:
28.1. PRODUCT CERTIFICATIONS AND SPECIFICATIONS
28.2. CHAIN OF CUSTODY CERTIFICATIONS
28.3. PRODUCT LABELED AND INVOICED AS MEETING THE COMPOSITE WOOD PRODUCTS REGULATION (SEE CGR, TITLE 17, SECTION 93120, ET SEQ)
28.4. EXTERIOR GRADE PRODUCTS MARKED AS MEETING THE PS-1 OR PS-2 STANDARDS OF THE ENGINEERED WOOD ASSOCIATION, THE AUSTRALIAN AS/NZS 2269 OR EUROPEAN 636 35 STANDARDS
28.5. OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY
29. PER CA GBSC 5.504.4.6, RESILIENT FLOORING SYSTEMS. FOR 50 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING, INSTALL RESILIENT FLOORING COMPLYING WITH THE VOC-EMISSION LIMITS DEFINED IN THE 2009 COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) CRITERIA AND LISTED ON ITS HIGH PERFORMANCE PRODUCTS DATABASE; PRODUCTS COMPLIANT WITH CHPS CRITERIA CERTIFIED UNDER THE GREENGUARD CHILDREN & SCHOOLS PROGRAM; CERTIFIED UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFICI) FLOORSCORE PROGRAM; OR MEET CALIFORNIA DEPARTMENT OF PUBLIC HEALTH 2010 STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01950.)
30. PER CA GBSC 5.504.4.6.1, VERIFICATION OF COMPLIANCE, DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT RESILIENT FLOORING MATERIALS MEET THE POLLUTANT EMISSION LIMITS.
31. PER CA GBSC 5.504.5.3, IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8. MERV 8 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL.
EXCEPTIONS:
31.1. AN ASHRAE 10-PERCENT TO 15-PERCENT EFFICIENCY FILTER SHALL BE PERMITTED FOR AN HVAC UNIT MEETING THE 2013 CALIFORNIA ENERGY CODE HAVING 60,000 BTU/H OR LESS CAPACITY PER FAN COIL, IF THE ENERGY USE OF THE AIR DELIVERY SYSTEM IS 0.4 W/CFM OR LESS AT DESIGN AIR FLOW.
31.2. EXISTING MECHANICAL EQUIPMENT.
32. PER CA GBSC 5.504.7, WHERE OUTDOOR AREAS ARE PROVIDED FOR SMOKING, PROHIBIT SMOKING WITHIN 25 FEET OF BUILDING ENTRIES, OUTDOOR AIR INTAKES AND OPERABLE WINDOWS AND WITHIN THE BUILDING AS ALREADY PROHIBITED BY OTHER LAWS OR REGULATIONS; OR AS ENFORCED BY ORDINANCES, REGULATIONS OR POLICIES OF ANY CITY, COUNTY, OR CITY AND COUNTY, WHICHEVER ARE MORE STRINGENT. WHEN ORDINANCES, REGULATIONS OR POLICIES ARE NOT IN PLACE, POST SIGNAGE TO INFORM BUILDING OCCUPANTS OF THE PROHIBITIONS.
33. PER CA GBSC 5.505.1, BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF CALIFORNIA BUILDING CODE, CGR, TITLE 24, PART 2, SECTIONS 1203 (VENTILATION) AND CHAPTER 14 (EXTERIOR WALLS).
34. PER CA GBSC 5.506.1, FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF SECTION 121 (REQUIREMENTS FOR VENTILATION) OF THE 2010 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CGR, TITLE 8.
35. PER CA GBSC 5.506.2, FOR BUILDINGS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2010 CALIFORNIA ENERGY CODE, SECTION 121(C).
36. PER CA GBSC 5.508.1.1, INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCs.
37. PER CA GBSC 5.508.1.2, INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN HALONS.

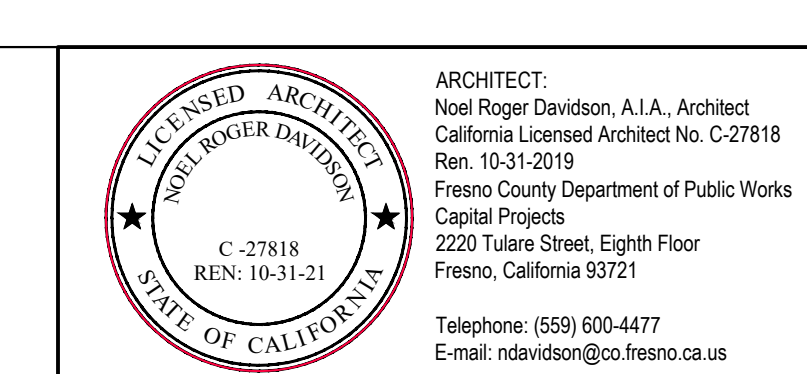
CALGreen VERIFICATION GUIDELINES

MANDATORY MEASURES CHECKLIST* Table with columns: CHAPTER 5 DIVISIONS, SECTION TITLE, CODE SECTION, Y, N/A, O, PLAN SHEET, SPEC OR ATTACH REFERENCE. Rows include DIVISION 5.1 Planning and Design, DIVISION 5.2 Energy Efficiency, DIVISION 5.3 Water Efficiency and Conservation, and DIVISION 5.4 Material Conservation and Resource Efficiency.

CALGreen VERIFICATION GUIDELINES

MANDATORY MEASURES CHECKLIST* Table with columns: CHAPTER 5 DIVISIONS, SECTION TITLE, CODE SECTION, Y, N/A, O, PLAN SHEET, SPEC OR ATTACH REFERENCE. Rows include DIVISION 5.4 Material Conservation and Resource Efficiency (cont.) and DIVISION 5.5 Environmental Quality.

* This checklist shall be used for nonresidential projects that meet one of the following: new construction, building additions of 1,000 sq. ft. or greater or building alterations with a permit valuation of \$200,000 or more pursuant to CALGreen Section 301.1 AND do not trigger a Tier 1 or Tier 2 requirement:
Y = Yes (section has been selected and/or included)
N/A = Not Applicable (Code section does not apply to the project, mainly used for additions and alterations)
O = Other (provide explanation)
[N] = New construction pursuant to section 301.1
[A] = Additions and/or alterations pursuant to section 301.1

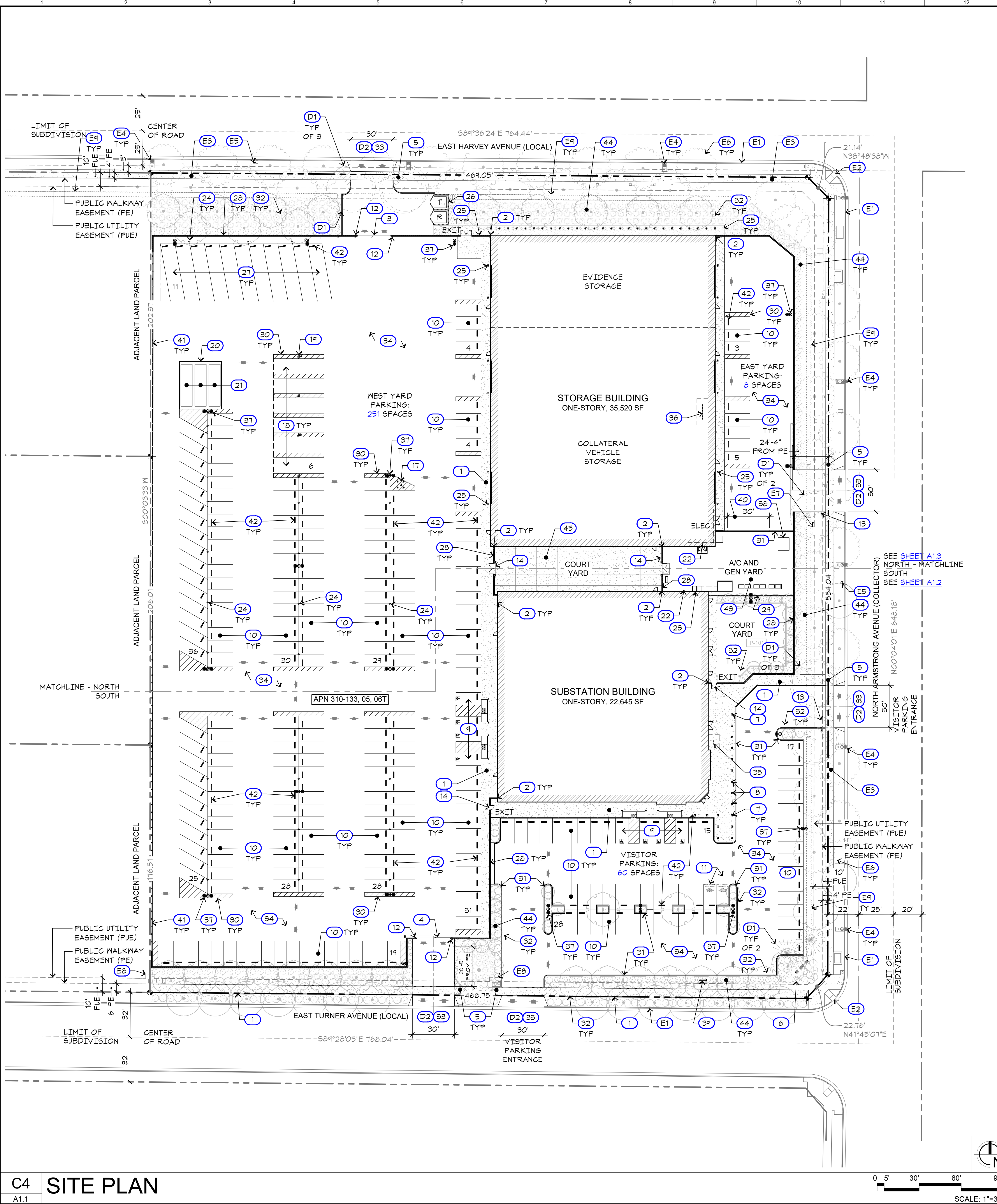


Project: Sheriff Area 2 Sub-Station
1122 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 06.02.2020
PROJECT NO: 190293 / 19003
FILE NAME: 19003_A04_GB_Notes

Sheet Content: GREEN BUILDING GUIDELINES
Fresno County Department of Public Works and Planning Capital Projects
2220 Tulare Street, 8th Floor Fresno, California 93721

Sheet No. A0.4





GENERAL SITE NOTES

- ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA.
- TWO WORKING DAYS BEFORE COMMENCING EXCAVATION OPERATIONS WITHIN THE STREET RIGHT-OF-WAY OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND UTILITIES ALERT (USA) CALL 1-800-642-2444.
- REPAIR ALL DAMAGED AND/OR OFF-GRADE CONCRETE STREET IMPROVEMENTS AS DETERMINED BY THE CONSTRUCTION MANAGEMENT ENGINEER, PRIOR TO OCCUPANCY.
- CONTACT THE PUBLIC WORKS DEPARTMENT, TRAFFIC ENGINEERING AT (559) 621-8800, 10 WORKING DAYS PRIOR TO ANY OFF-SITE CONCRETE CONSTRUCTION.
- UNDERGROUND ALL EXISTING OFF-SITE OVERHEAD UTILITIES WITHIN THE LIMITS OF THIS APPLICATION AS PER FMC SECTION 15-2017.
- PROVIDE A 4' MIN. PATH OF TRAVEL ALONG THE PUBLIC SIDEWALK DIRECTLY IN FRONT OF PROPERTY, TO MEET CURRENT ACCESSIBILITY REGULATIONS. A PEDESTRIAN EASEMENT MAY BE REQUIRED IF REQUIREMENTS ARE NOT MET.
- CONTACT THE PUBLIC WORKS DEPARTMENT AT 559 621-8800, 10 WORKING DAYS PRIOR TO ANY OFFSITE CONCRETE CONSTRUCTION.

- ALL IMPROVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITY OF FRESNO PUBLIC WORKS DEPARTMENT OR STREET CONSTRUCTION PLANS AS REQUIRED AND APPROVED BY THE CITY ENGINEER. THE PERFORMANCE OF ANY WORK WITHIN THE PUBLIC STREET RIGHT-OF-WAY (INCLUDING PEDESTRIAN AND PUBLIC UTILITY EASEMENTS) REQUIRES A STREET WORK PERMIT PRIOR TO COMMENCEMENT OF WORK. ALL REQUIRED STREET IMPROVEMENTS MUST BE COMPLETED AND ACCEPTED BY THE CITY ENGINEER.
- DEVELOPMENT SHALL TAKE PLACE IN ACCORDANCE WITH ALL CITY, COUNTY, STATE AND FEDERAL LAWS AND REQUIREMENTS.
- EXISTING SIDEWALKS IN EXCESS OF 2% MAXIMUM CROSS SLOPE MUST BE BROUGHT INTO COMPLIANCE PRIOR TO ACCEPTANCE BY PUBLIC WORKS.

KEYNOTES LEGEND

- (E1) (E) CONCRETE CURB AND GUTTER. SEE CIVIL DRAWINGS FOR ANY REQUIRED MODIFICATIONS AS PER THE CITY OF FRESNO STANDARD.
- (E2) (E) ACCESSIBLE CURB RAMP. SEE CIVIL DRAWINGS FOR ANY REQUIRED MODIFICATIONS AS PER THE CITY OF FRESNO STANDARD, P-28 AND PER 2016 CALIFORNIA BUILDING CODE, TITLE 24, PART 2, VOLUME 1, CHAPTER 11B (2016 CBC T24 P2 V1 CHPT 11B).
- (E3) (E) CONCRETE SIDEWALK. SEE CIVIL DRAWINGS FOR ANY REQUIRED MODIFICATIONS AS PER THE CITY OF FRESNO STANDARD, P-28 AND PER 2016 CBC T24 P2 V1 CHPT 11B.
- (E4) (E) STREET LIGHT
- (E5) (E) FIRE HYDRANT
- (E6) (E) TREE
- (E7) (E) 6'-0" WIDE X 11'-0" PUBLIC UTILITY EASEMENT (PUE)
- (E8) (E) 6'-0" WIDE X 15'-0" PUBLIC UTILITY EASEMENT (PUE)
- (E9) (E) HEDGE ROW
- (1) (P) CONCRETE SIDEWALK PER CITY OF FRESNO STANDARD AND PER 2016 CBC T24 P2 V1 CHPT 11B. SEE DETAIL A5/A1.5. SEE ALSO CIVIL DRAWINGS.
- (2) (P) GAP/ISOLATION SHALL NOT EXCEED 4' AT ANY POINT.
- (3) (P) NORTH ENTRY GATE W/ BATTERY BACKUP AND FIRE ACCESS TO WEST YARD. PROVIDE APPROVED POLICE/FIRE BYPASS LOCK (BEST PADLOCK MODEL 21800 SERIES OR ELECTRIC CYLINDER SWITCH MODEL W17B2) AND INSTALL PER FFD POLICY 402.009.
- (4) (P) SOUTH ENTRY GATE W/ BATTERY BACKUP AND FIRE ACCESS TO WEST YARD. SEE KEYNOTE 3 ABOVE FOR POLICE/FIRE BYPASS LOCK REQUIREMENT.
- (5) (P) 12' CLEAR TRIANGLE OF VISIBILITY AT DRIVE APPROACH.
- (6) FUTURE MONUMENT SIGN (NOT IN CONTRACT)
- (7) (P) LIGHTED BOLLARD, TYP. SEE ELECTRICAL
- (8) (P) FLAG POLE, TYP. SEE DETAIL J8/A1.6.
- (9) (P) ACCESSIBLE PARKING STALL W/ LOADING AREA, RAMP AND SIGN. SEE DETAIL A9/A1.4 SIM
- (10) (P) STANDARD PARKING STALL. 9'-0" WIDE X 18'-0" LONG. LENGTH MAY INCLUDE 2'-0" MAX OVERHANG.
- (11) (P) RESERVED PARKING STALL FOR SAFE EXCHANGE. STALL MARKING SHALL READ 'PRIVATE PROPERTY AND E-COMMERCE TRANSACTIONS' IN 9" HIGH WHITE LETTERS.
- (12) (P) STUB OUT FOR PASSIVE UHF RFID SENSOR
- (13) (P) 30" "STOP" SIGN PER CITY OF FRESNO AND STATE STANDARD. SIGN SHALL BE MOUNTED ON A 2" GALVANIZED POST AND IMMEDIATELY BEHIND STREET SIDEWALK.
- (14) (P) PERSONNEL GATE IN CUM WALL. SEE DETAIL A11/A1.6 OR E11/A1.6
- (15) NOT USED
- (16) NOT USED
- (17) (P) FIRE HYDRANT (PRIVATE)
- (18) (P) COVERED LARGE VEHICLE PARKING SPACE. SEE DETAIL L4/A1.4

- (19) (P) CANOPY POSTS: STUB CONDUIT AND ELECTRICAL OUTLETS TO EACH POST FOR FUTURE NEEDS. EVERY OTHER POST SHALL HAVE 110 VOLT WEATHER RESISTANT 4-GANG OUTLETS AND HOSE BIBBS. TYPICAL AT ALL SOLAR COVERED PARKING SPACES.
- (20) (P) CONCRETE PAD FOR SEA TRAIN STORAGE CONTAINERS. PRE-PLAN FOR POWER. SEE DETAIL N11/A1.6 AND ELECTRICAL DRAWINGS
- (P) SEA TRAIN STORAGE CONTAINER
- (21) (P) FIRE RISER
- (22) (P) HVAC RISERS. SEE MECHANICAL
- (24) (P) ELECTRICAL OUTLETS, TYPICAL. SEE ELECTRICAL DRAWINGS.
- (25) (P) STEEL BOLLARD, TYPICAL. SEE DETAIL N5/A1.5
- (26) (P) TRASH / RECYCLE ENCLOSURE. SEE DETAIL J13/A1.5
- (27) (P) BEV-DIVE 35-40 FT BOAT AND TRAILERS
- (28) (P) 7'-0" HIGH CMU WALL, TYPICAL. SEE DETAIL A15/A1.6
- (29) (P) 6'-0" CHAIN LINK FENCE W/ VISION SLATS. SEE DETAIL N15/A1.6
- (30) (P) STRIPING TO DELINEATE PARKING SPACE SEPARATION AND CLEARANCE
- (31) (P) 6" HIGH CONCRETE CURB. SEE DETAILS N1 OR J1/A1.6
- (32) (P) TREE. SEE LANDSCAPE DRAWINGS.
- (33) (P) NEW COMMERCIAL DRIVEWAY APPROACH PER CITY OF FRESNO PUBLIC WORKS STANDARDS P-2 AND P-6. WIDTH AS SHOWN. SEE CIVIL DRAWINGS.
- (34) (P) AC PAVING PER CITY OF FRESNO PUBLIC WORKS STANDARDS P-21, P-22 AND P-23. SEE CIVIL DRAWINGS.
- (35) (P) SHORT-TERM BICYCLE PARKING PER 2016 C6B5C 5.106.4.1.1 AT 5% OF NEW VISITOR MOTORIZED VEHICLE PARKING SPACES FOR 60 MV SPACES, 3 BIKE SPACES REQUIRED. SEE DETAIL J5/A1.3
- (36) (P) LONG-TERM BICYCLE PARKING PER 2016 C6B5C 5.106.4.1.2 AT 5% OF NEW EMPLOYEE MOTORIZED VEHICLE PARKING SPACES FOR 259 MV SPACES, 13 BIKE SPACES REQUIRED. SEE DETAIL E5/A1.3
- (37) (P) LIGHT POLE W/ CONCRETE BASE, TYP. SEE ELECTRICAL DRAWINGS.
- (38) (P) TRANSFORMER LOCATION. SEE ELECTRICAL
- (39) (P) BACKFLOW PREVENTION DEVICE AND METER. SEE CIVIL DRAWINGS
- (40) (P) DEPRESS CONCRETE CURB TO 2" HIGH AT WIDTH AS SHOWN.
- (41) (P) 8'-0" CHAIN LINK FENCE W/ SECURITY WIRE AND PRIVACY SLATS. SEE DETAIL A1/A1.6
- (42) (P) CONCRETE WHEEL STOP, TYPICAL. SEE DETAIL A1/A1.5
- (43) (P) 2" PEA GRAVEL O/ COMPACTED SOIL AT A/C AND GENERATOR YARD UNLESS OTHERWISE NOTED.
- (44) (P) PLANTING AREA. SEE LANDSCAPE DRAWINGS.
- (45) (P) CONCRETE PAVING

PROJECT DATA

- PROJECT TITLE: FRESNO COUNTY SHERIFF AREA 2 SUBSTATION
 - SUBSTATION BLDG
 - STORAGE BLDG
- PROJECT ADDRESS: 1129 N ARMSTRONG AVE FRESNO, CA 93721
- APN: 310-133-04, 05, 06T
- LEGAL:
- ZONING: IL/UM/GZ
- SITE AREA: 289,080 SF (6.50 AC)
- SUBSTATION BLDG
 - BLDG AREA: 22,700 SF
 - OCCUPANCY: A-3, B w/ A-2 AND S-1 ACCESSORY
 - CONSTRUCTION: IIB - SPRINKLERED
 - OCCUPANTS: 646
- STORAGE BLDG
 - BLDG AREA: 35,520 SF
 - OCCUPANCY: S-2
 - CONSTRUCTION: IIB - SPRINKLERED
 - OCCUPANTS: 116
- SITE COVERAGE: 20.6%
- BUILDING CODE: 2016 CALIFORNIA BUILDING CODE
- SEISMIC DESIGN CATEGORY D
- COUNTY OF FRESNO SFR APPLICATION NO. 8156

SHEET NOTES

- KEYNOTES SITE PLAN ONLY. SEE SHEETS A1.2 AND A1.3 FOR SITE DIMENSIONS.
- SEE SHEET A1.2 FOR EXTERIOR EXIT ROUTES.

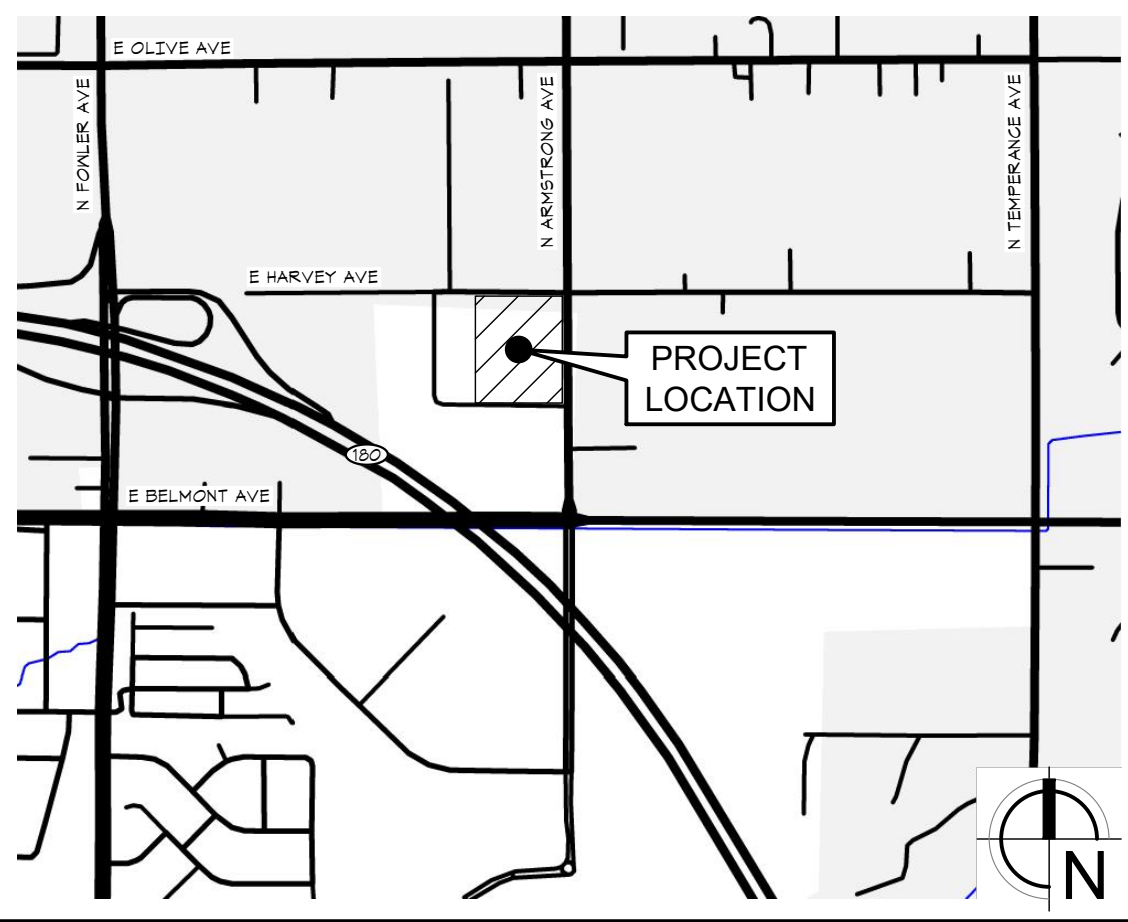


Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 180293 / 150003
 FILE NAME: 19003_A1-1_Site_Plan

DEMOLITION KEYNOTES LEGEND

- (D1) REMOVE (E) TREE TO BOTTOM OF ROOT BALL. SHOWN DASHED. SEE ALSO CIVIL DRAWINGS.
- (D2) SEE CIVIL DRAWINGS FOR EXTENT OF DEMOLITION WITHIN THIS AREA.

VICINITY MAP



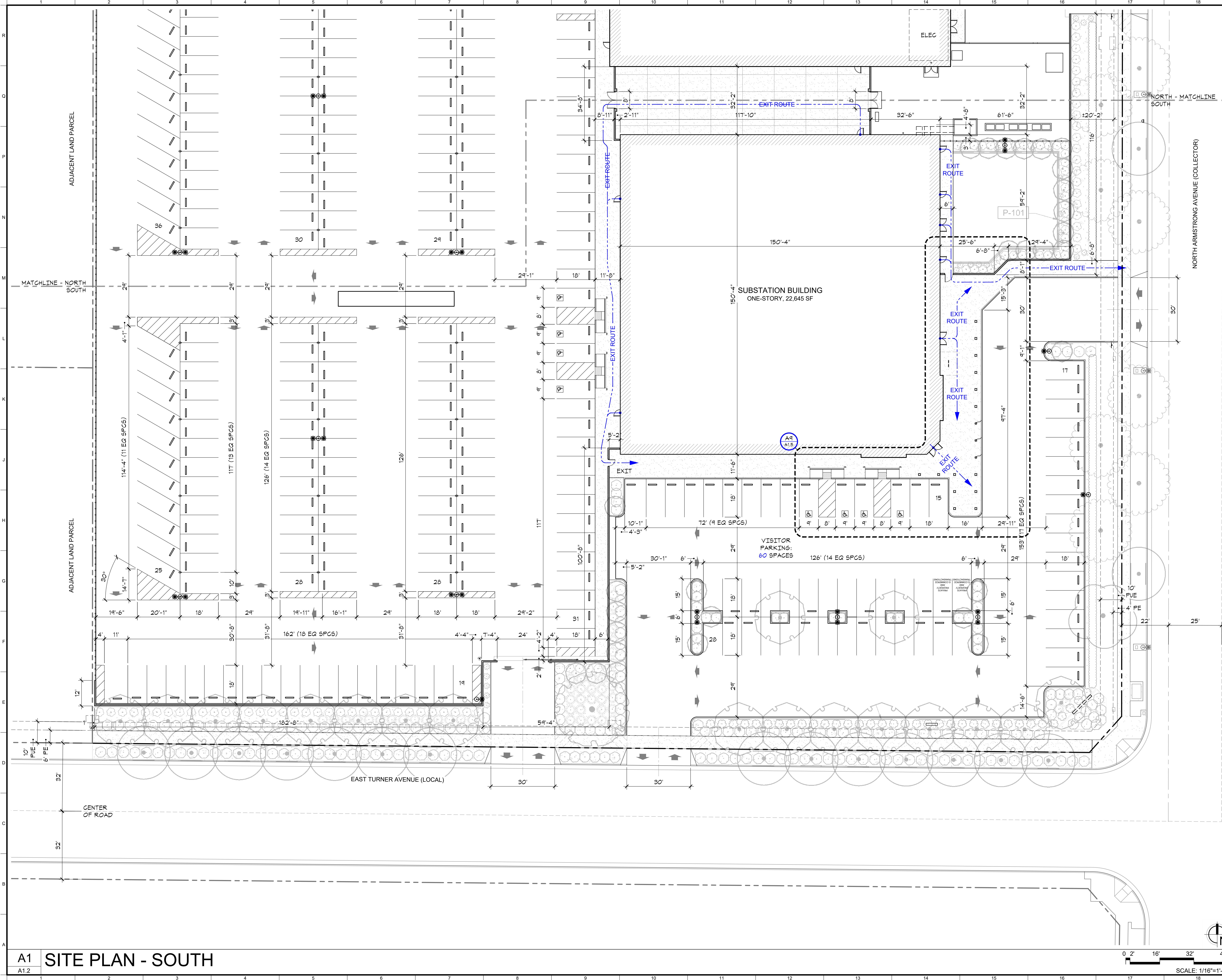
Sheet Content:
 SITE PLAN

Fresno County Department of
 Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

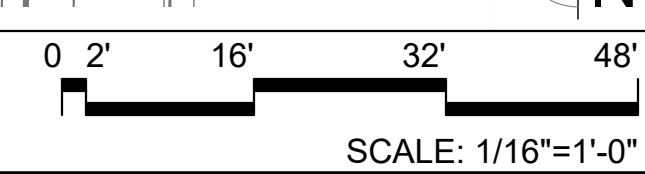
Sheet No.
A1.1

SHEET NOTES

1. DIMENSIONED SITE PLAN ONLY. SEE SHEET A1.1 FOR FULL LIST OF SITE PLAN KEYNOTES.



A1 SITE PLAN - SOUTH



SCALE: 1/16"=1'-0"

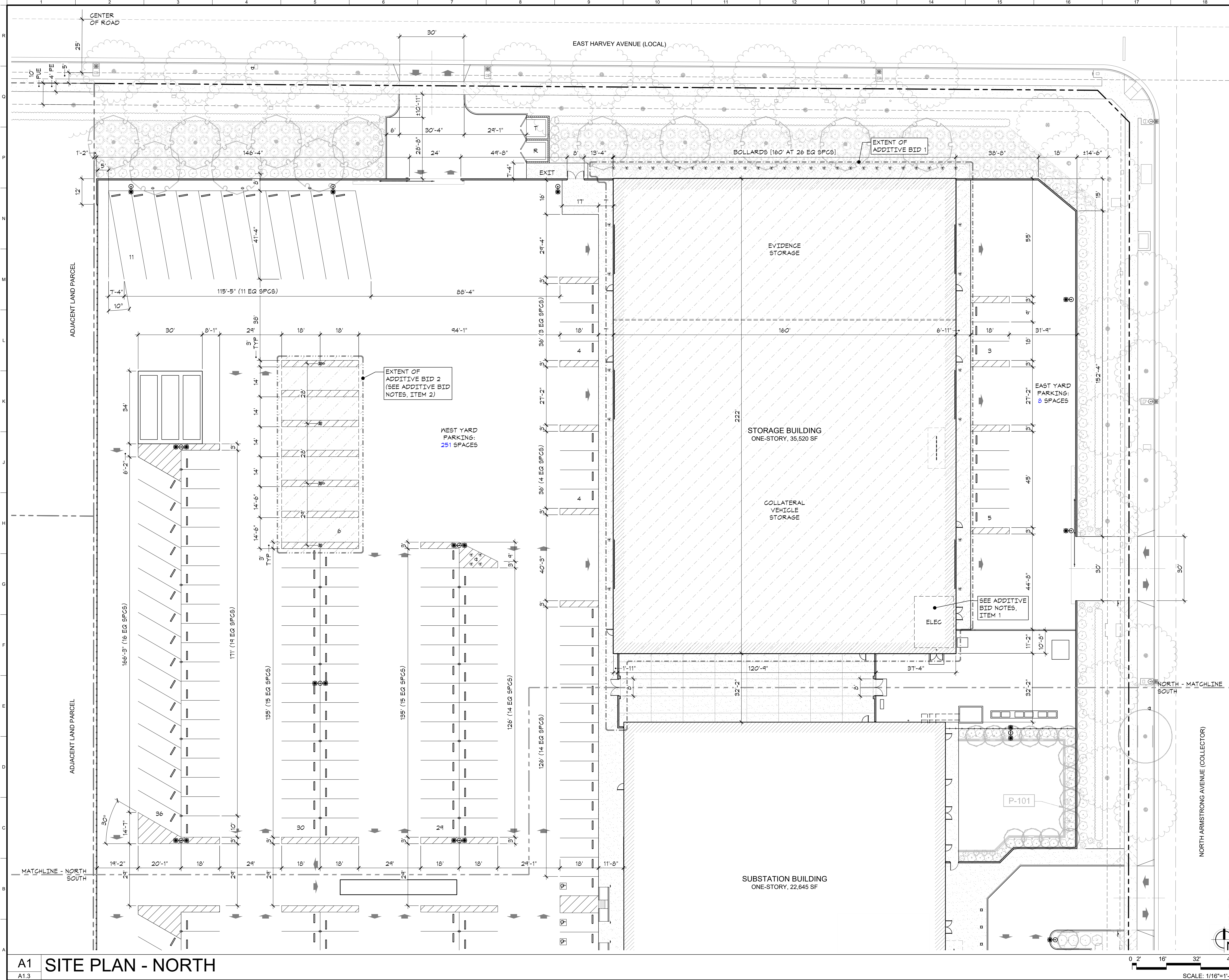
Project:
 Sheriff Area 2 Sub-Station
 1125 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04-.05, and -.06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
 FILE NAME: 19003_A1-2_Site_Plan_S

Sheet Content:
 SITE PLAN - SOUTH

Fresno County Department of
 Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721



Sheet No.
A1.2



SHEET NOTES

1. DIMENSIONED SITE PLAN ONLY. SEE SHEET A1.1 FOR FULL LIST OF SITE PLAN KEYNOTES.

ADDITIVE BID NOTES

- 1. INCLUDE ELECTRICAL WIRING AND SWITCH GEAR ONLY WITH BASE BID. INCLUDE ELECTRICAL ROOM WITH STORAGE BUILDING ADDITIVE BID 1.
- 2. ADDITIVE BID 2 LIMITED TO CANOPIES, LIGHTING AND POWER AT LARGE VEHICLE PARKING



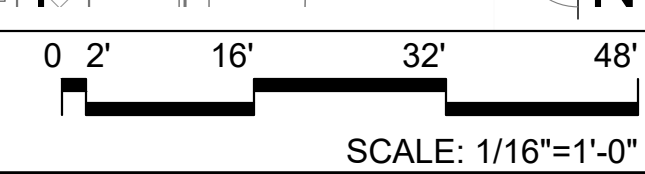
Project:
 Sheriff Area 2 Sub-Station
 1123 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
 FILE NAME: 19003_A1-3_Site_Plan_N

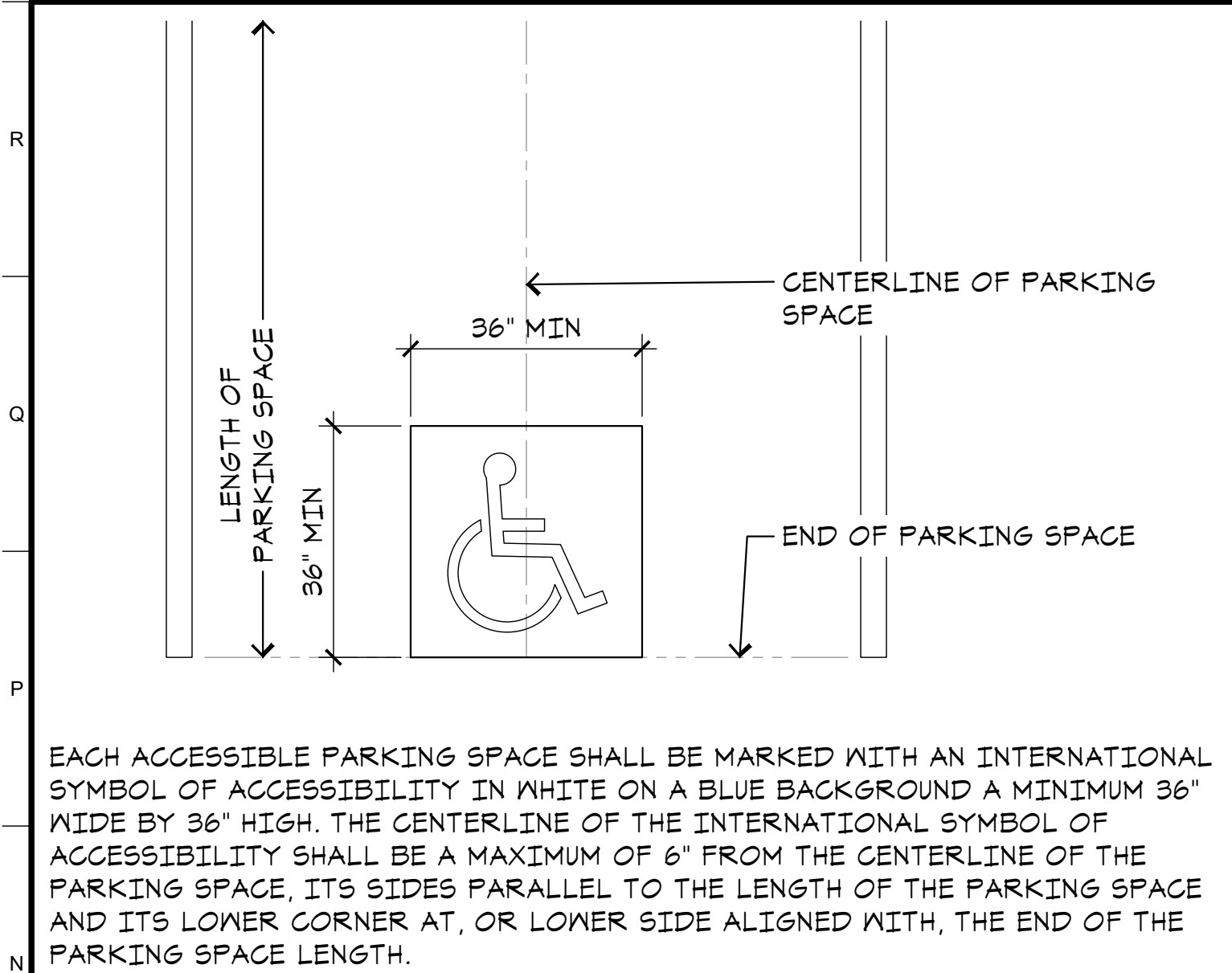
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 SITE PLAN - NORTH



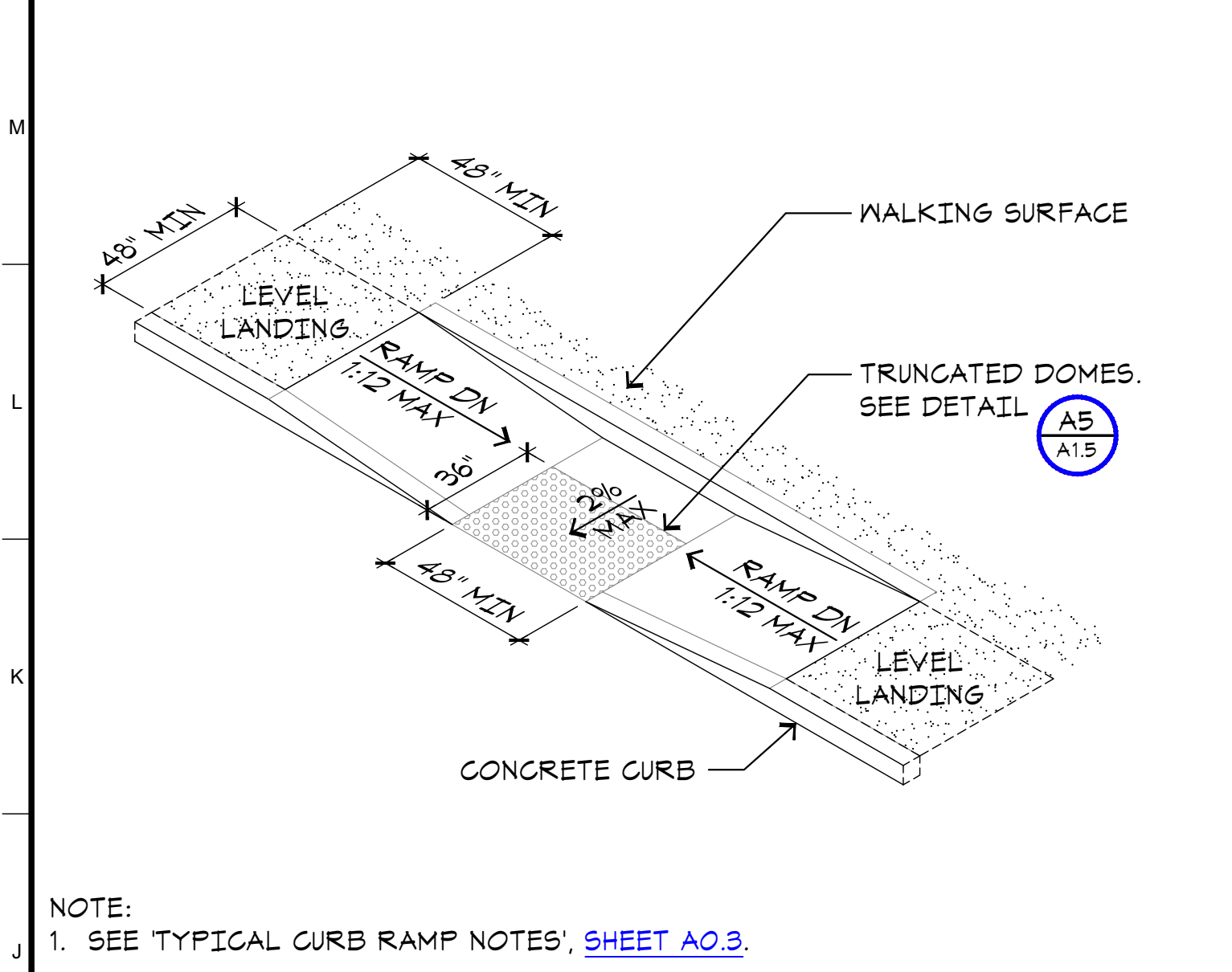
Sheet No.
A1.3

A1 SITE PLAN - NORTH

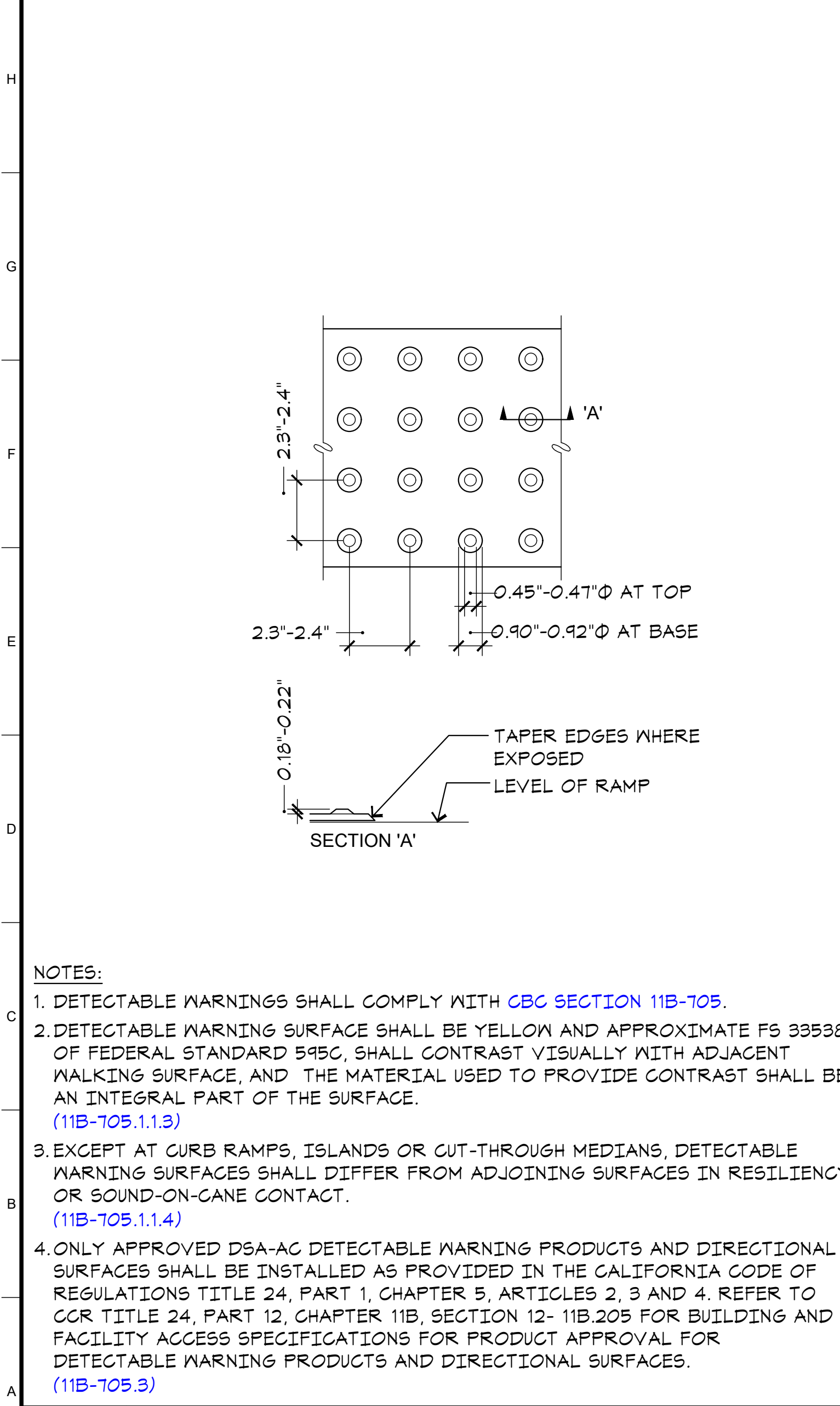




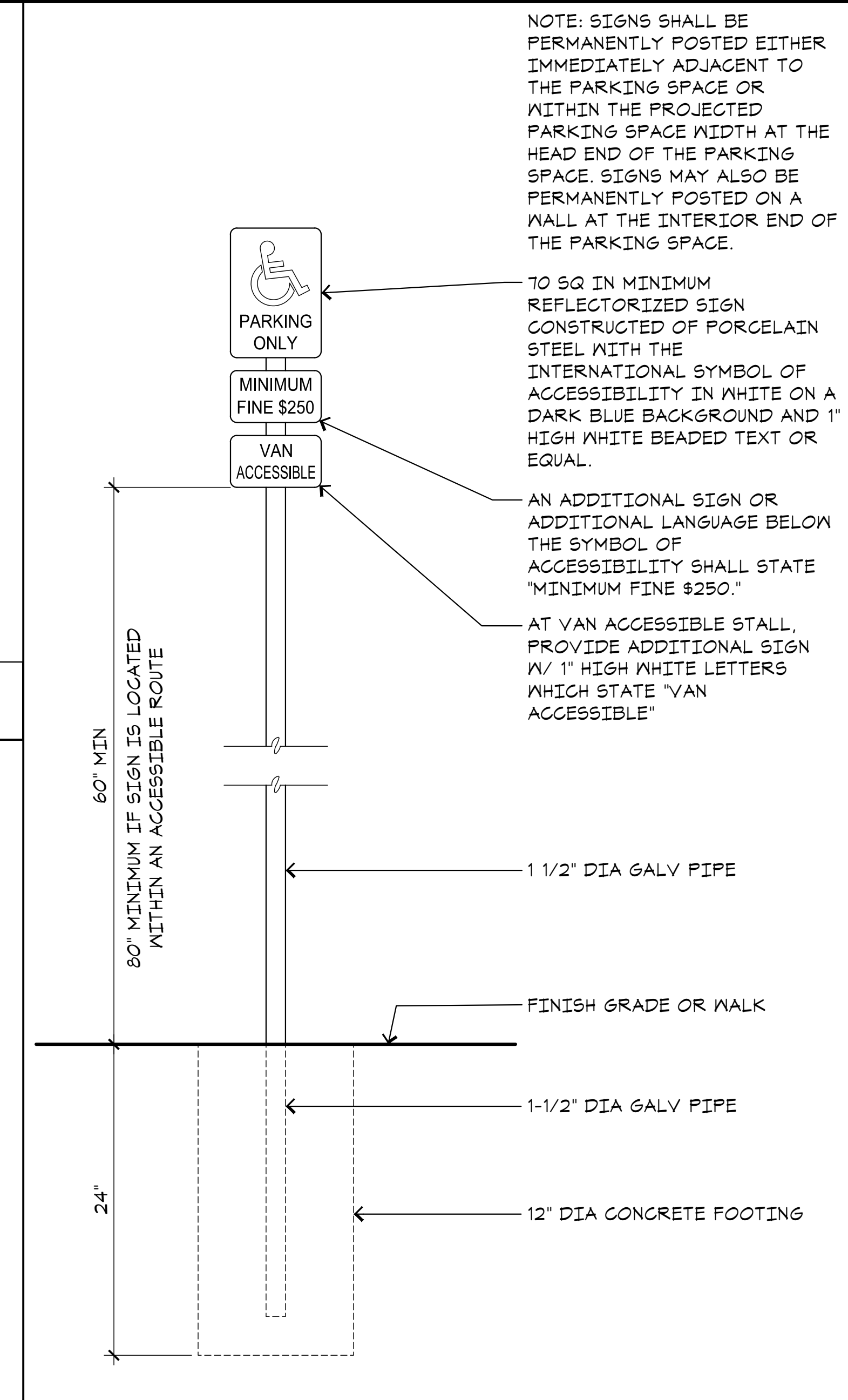
N1 ACC PARKING SYMBOL
A1.4 SCALE: 1/2"=1'-0"



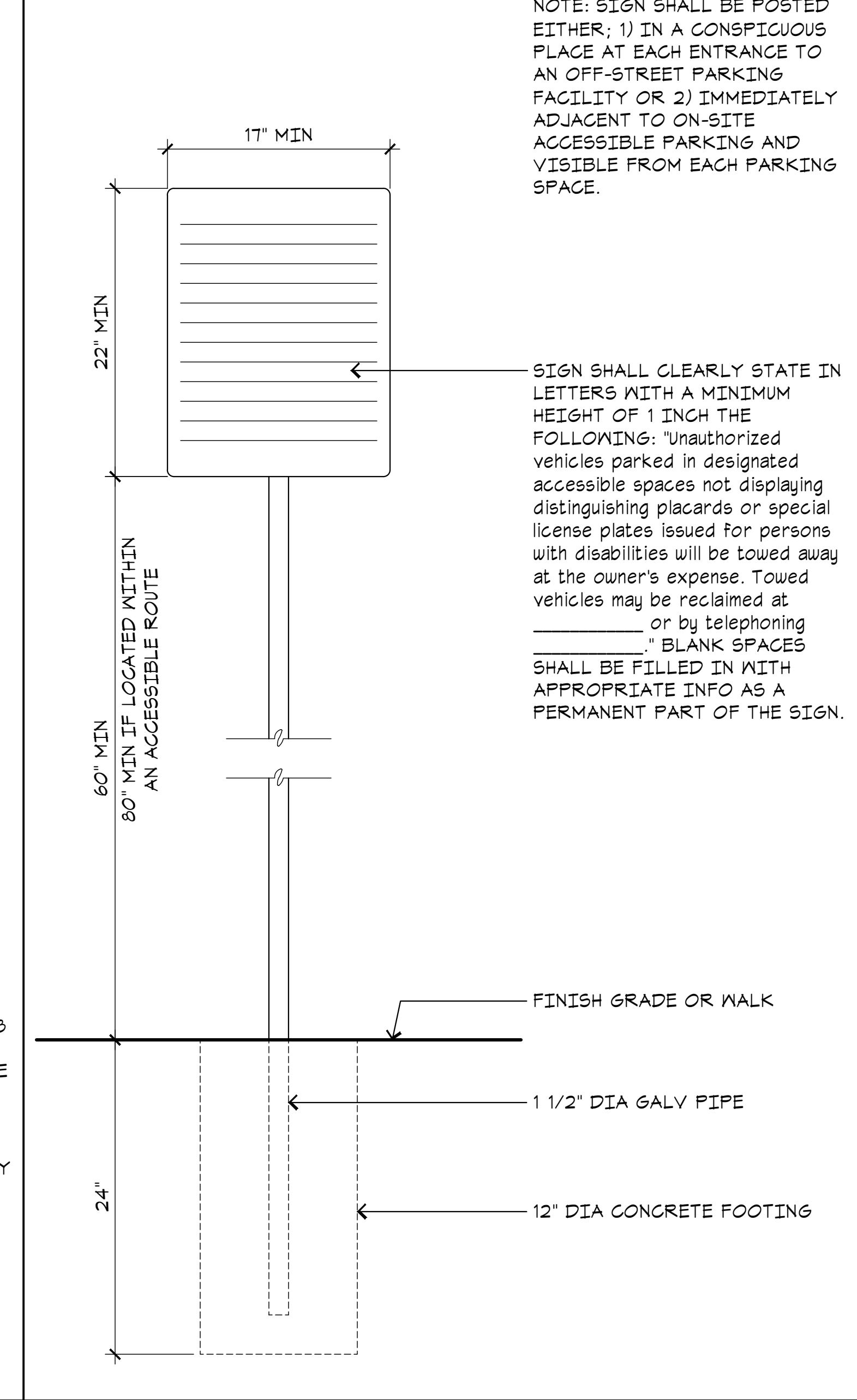
J1 PARALLEL CURB RAMP
A1.4 SCALE: NONE



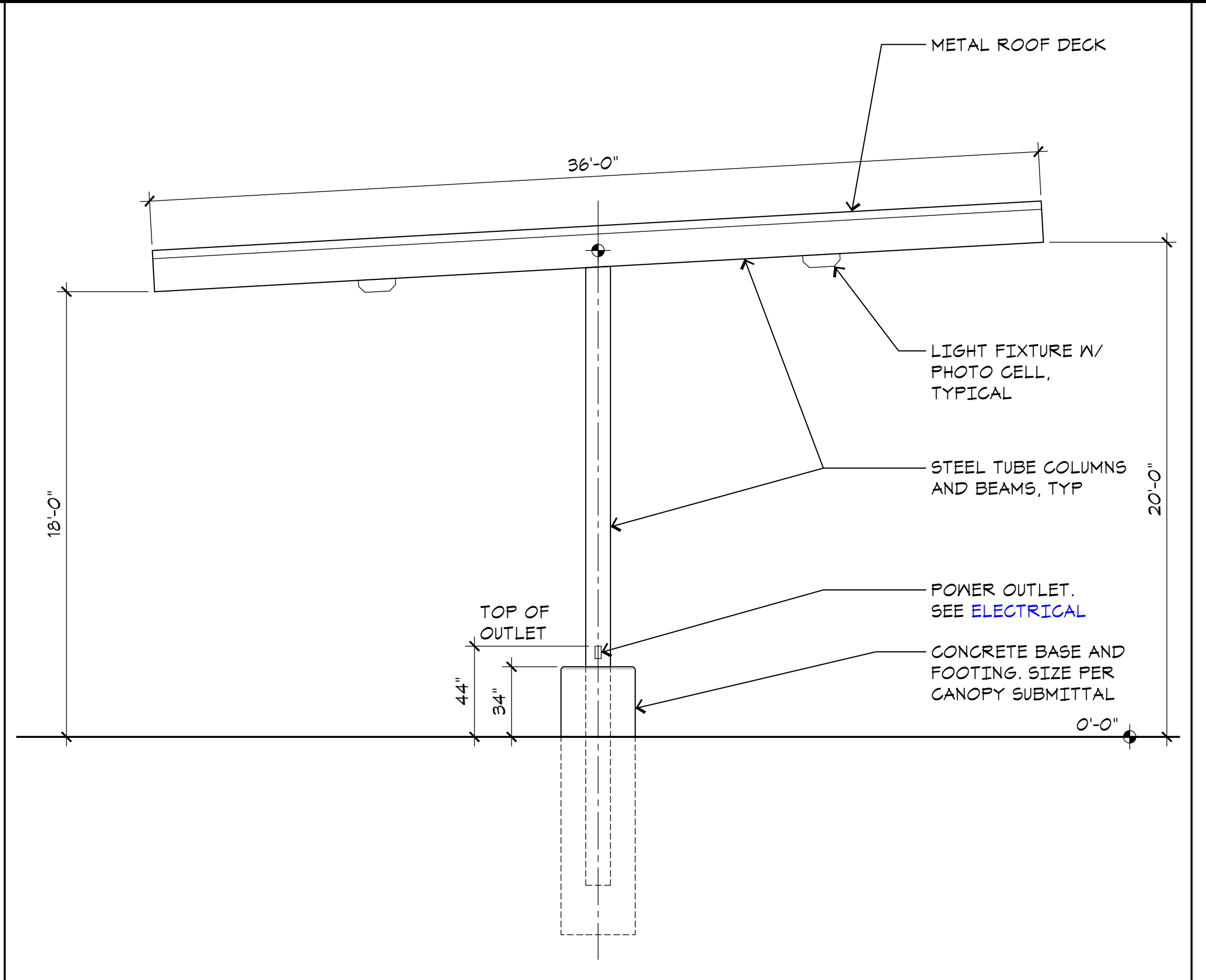
A1 TRUNCATED DOMES
A1.4 SCALE: 3"=1'-0"



J5 ACC PARKING SIGN
A1.4 SCALE: 1-1/2"=1'-0"



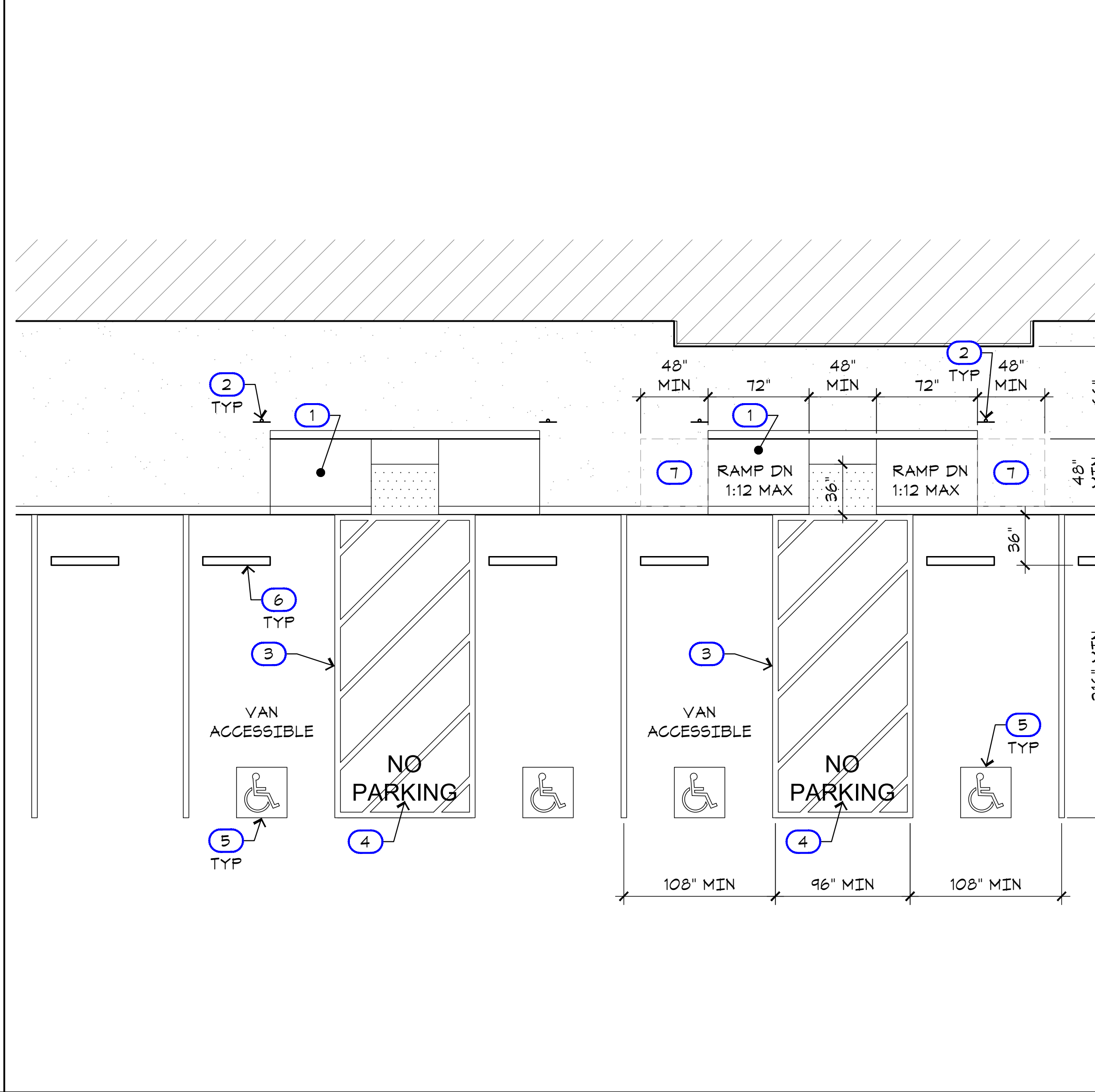
A5 ACC PARKING SIGN
A1.4 SCALE: 1-1/2"=1'-0"



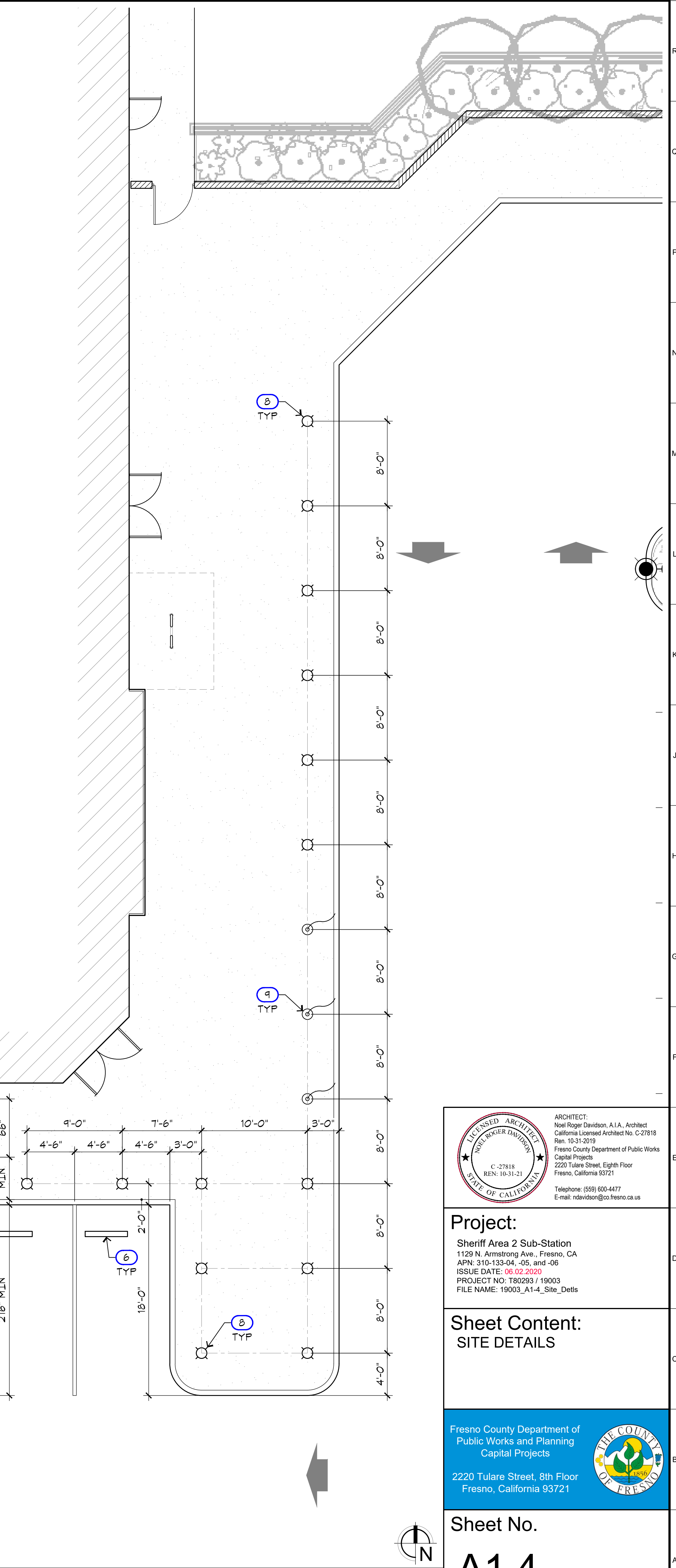
L9 LARGE VEHICLE CANOPY - BID ALT #2
A1.4 SCALE: 1/4"=1'-0"

KEYNOTES LEGEND

- 1 ACCESSIBLE CURB RAMP W/ TRUNCATED DOMES. SEE [DETAIL J1/A1.4](#).
- 2 ACCESSIBLE PARKING SIGN CENTERED IN PARKING SPACE, TYPICAL. SEE [DETAIL J5/A1.4](#).
- 3 4" STRIPING AT ACCESS AISLE. PROVIDE BLUE STRIPE AT ACCESS AISLE PERIMETER W/ (BLUE) (WHITE) INFILL STRIPES AT 36" O.C. AS SHOWN.
- 4 12" HIGH WHITE "NO PARKING" TEXT WITHIN ACCESS AISLE.
- 5 INTERNATIONAL SYMBOL OF ACCESSIBILITY. SEE [DETAIL N1/A1.4](#).
- 6 CONCRETE WHEEL STOP. SEE [DETAIL A1/A1.5](#).
- 7 LEVEL LANDING AREA.
- 8 LIGHTED BOLLARD. SEE [ELECTRICAL](#).
- 9 FLAG POLE. SEE [DETAIL J3/A1.6](#).



A9 PARTIAL ENLARGED SITE PLAN
A1.4



A1.4
SCALE: 3/16"=1'-0"

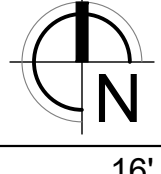
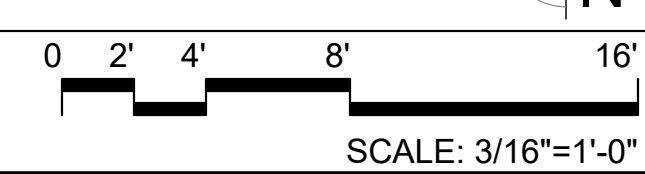


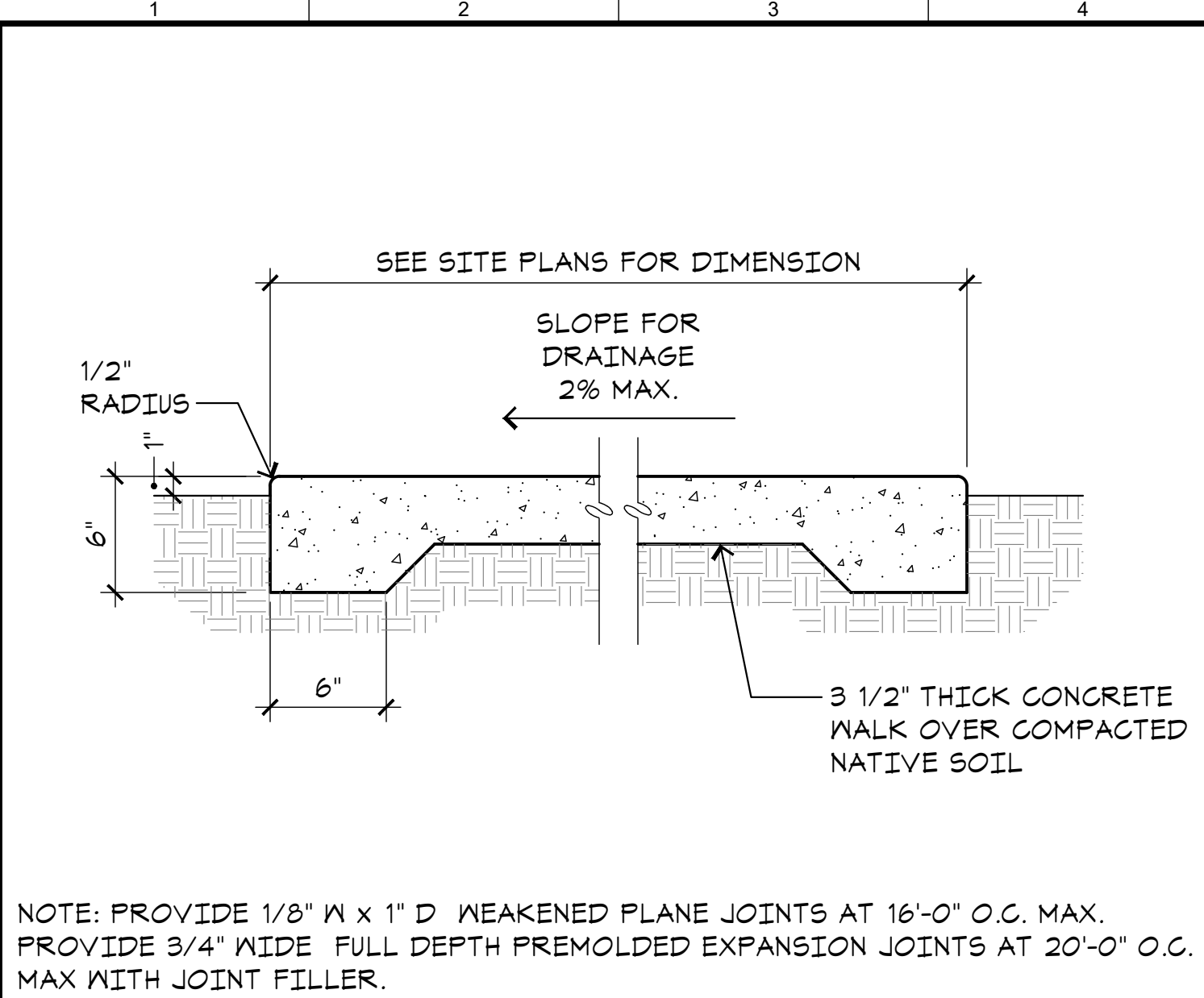
Project:
Sheriff Area 2 Sub-Station
1120 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 06.02.2020
PROJECT NO: 190293 / 19003
FILE NAME: 19003_A1.4_Site_Details

Sheet Content:
SITE DETAILS

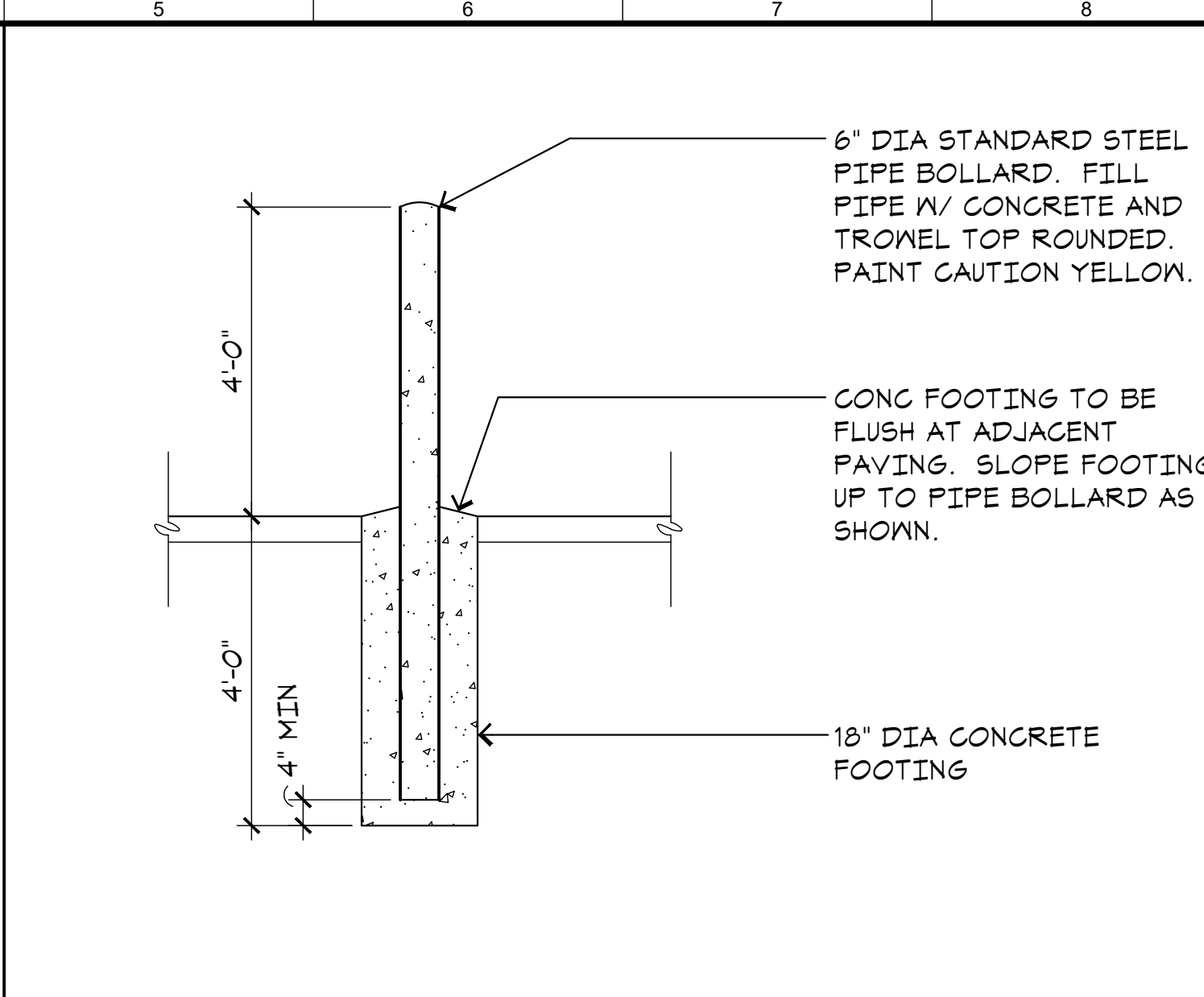


Sheet No.
A1.4

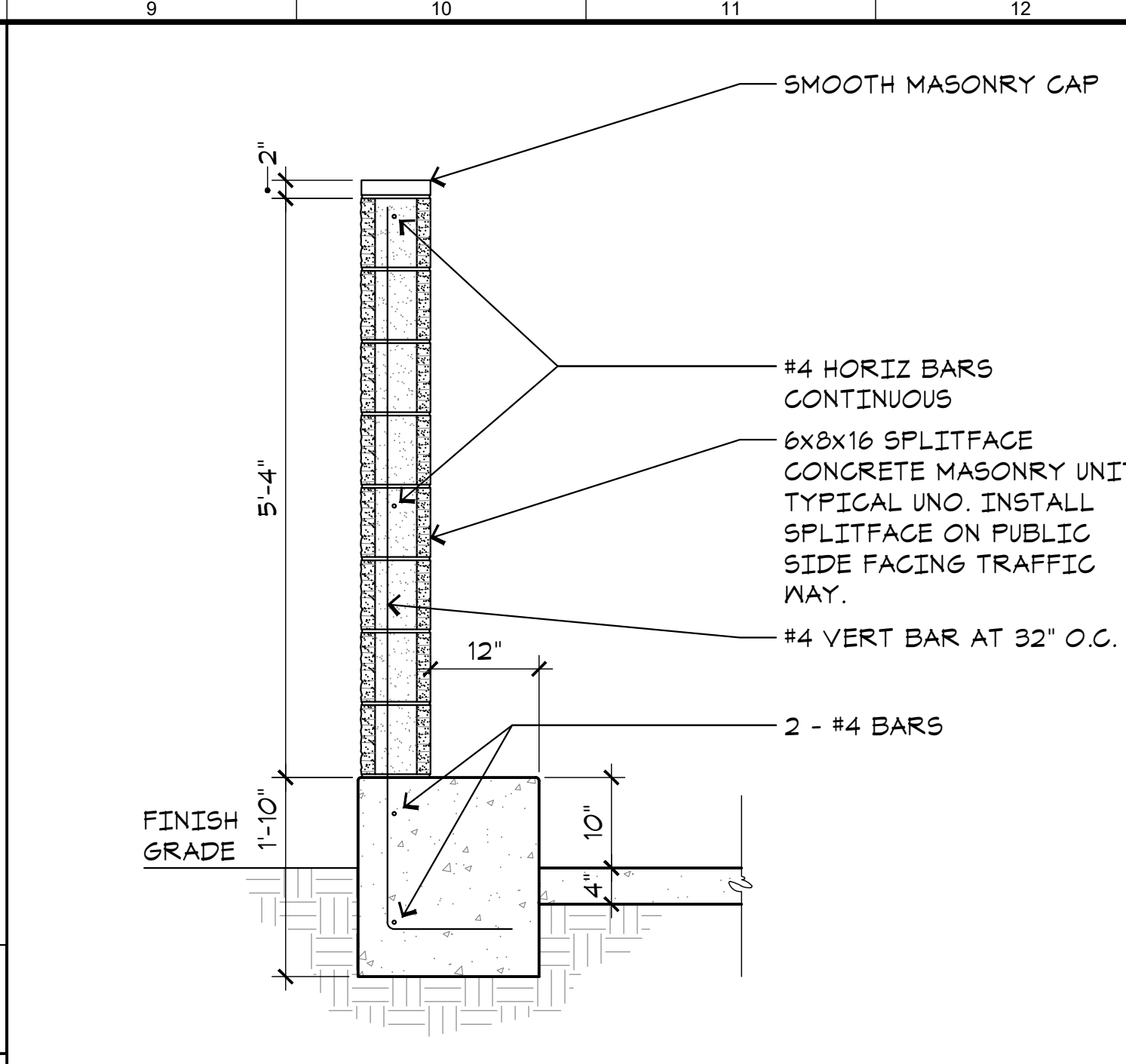




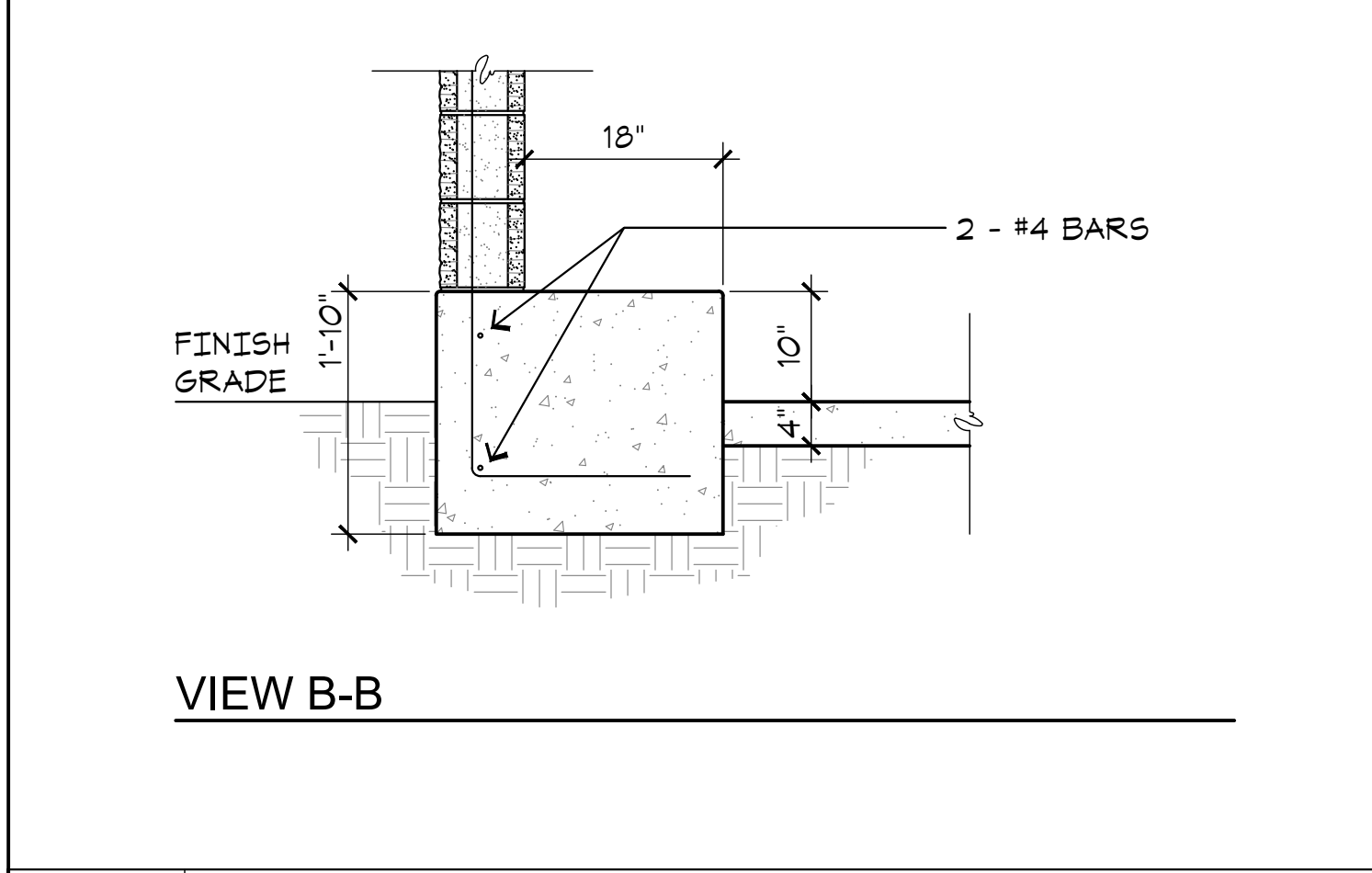
N1 CONCRETE WALK SECT
A1.5 SCALE: 1-1/2"=1'-0"



N5 TYP PIPE BOLLARD
A1.5 SCALE: 1/2"=1'-0"

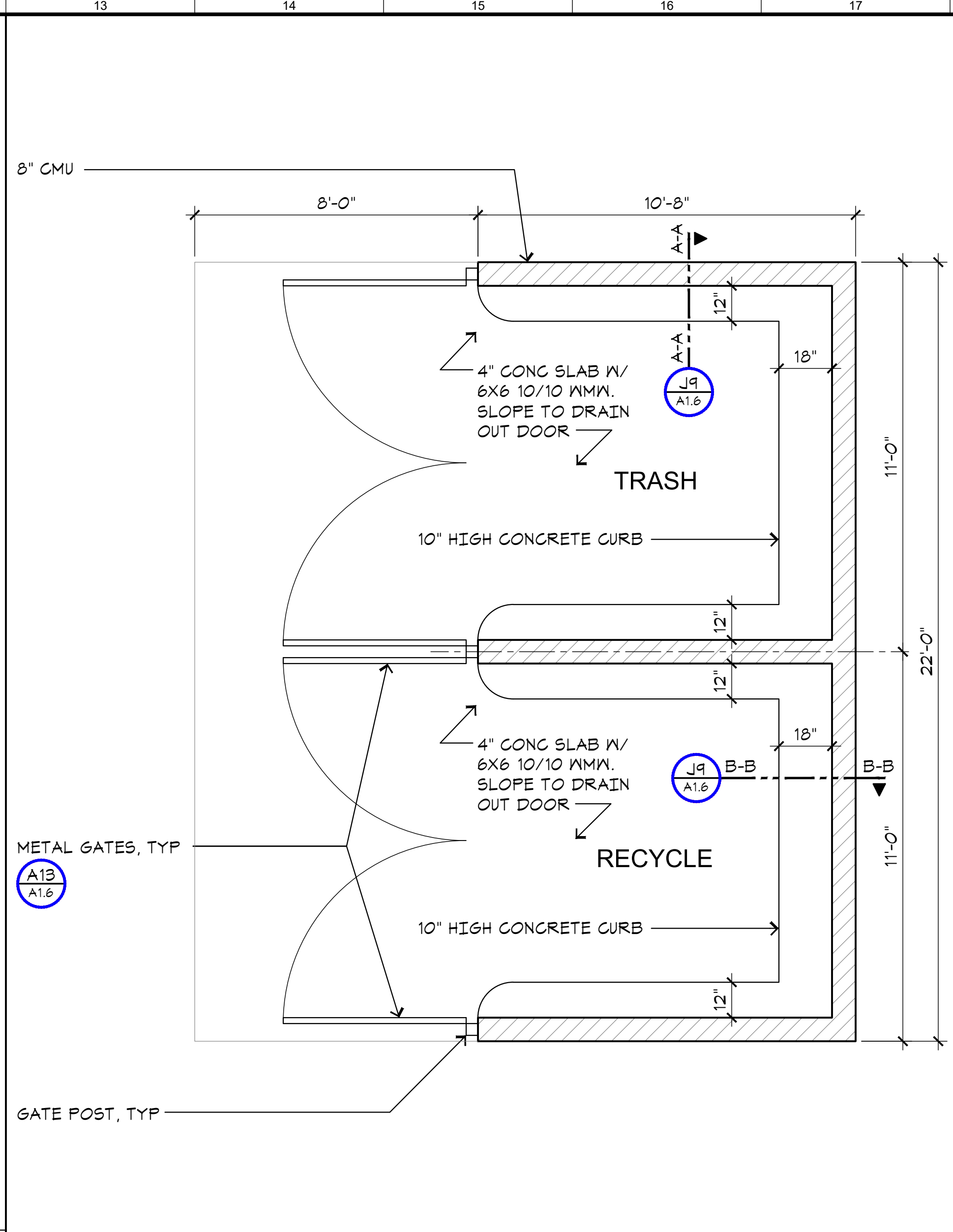


VIEW A-A



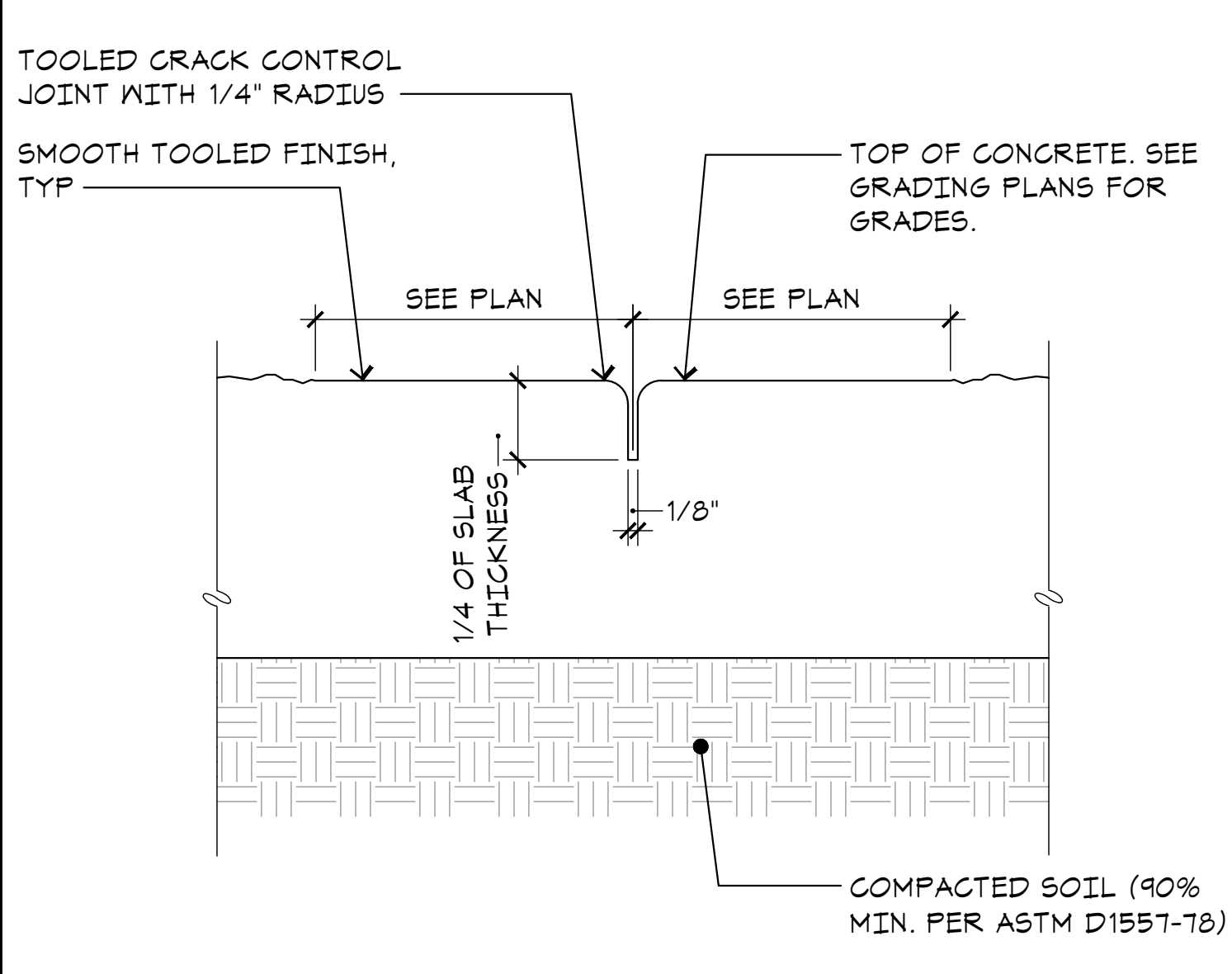
VIEW B-B

TYPICAL SECT AT CONC BLOCK WALL
A1.5 SCALE: 3/4"=1'-0"

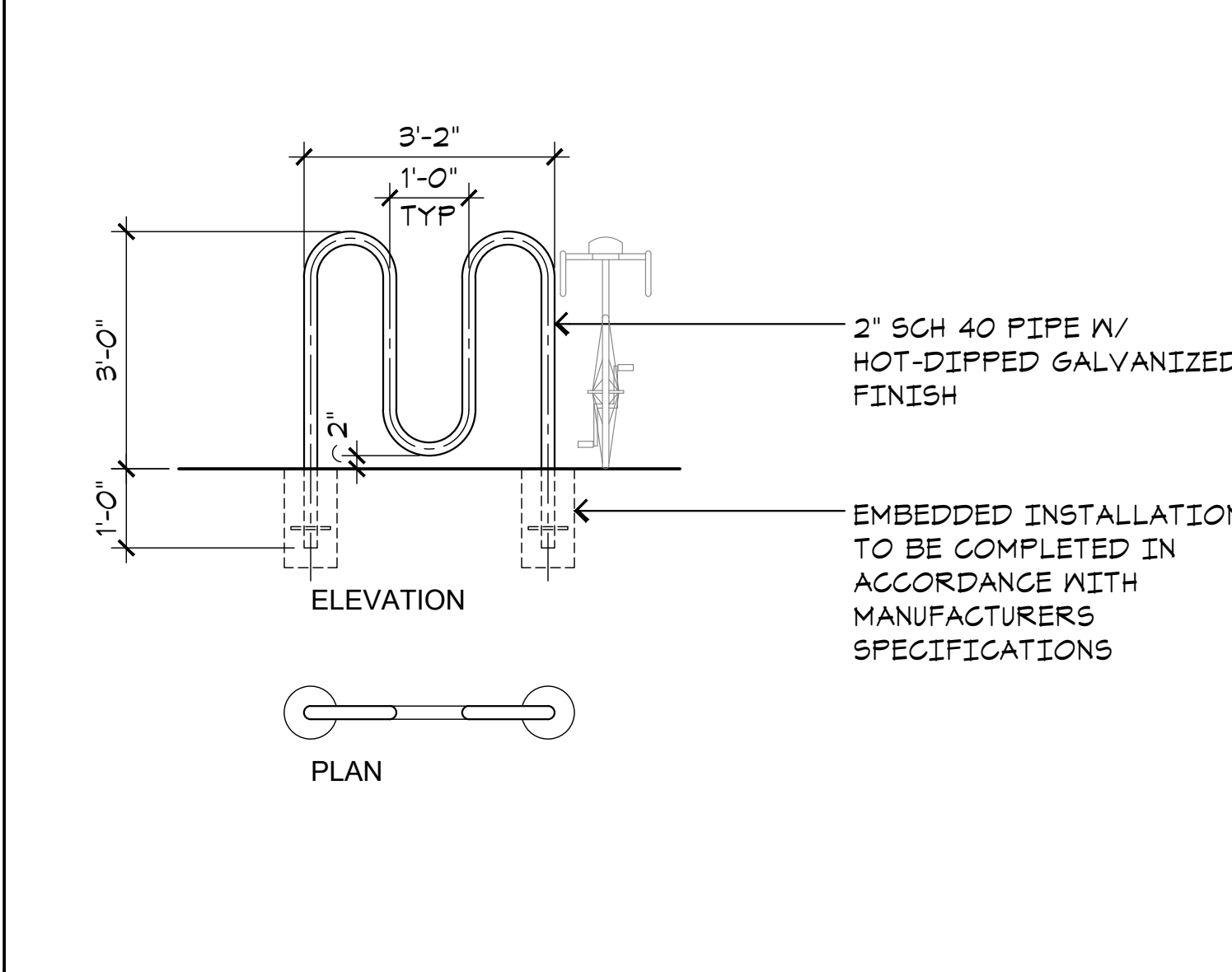


J13 TYPICAL TRASH ENCLOSURE
A1.5 SCALE: 3/8"=1'-0"

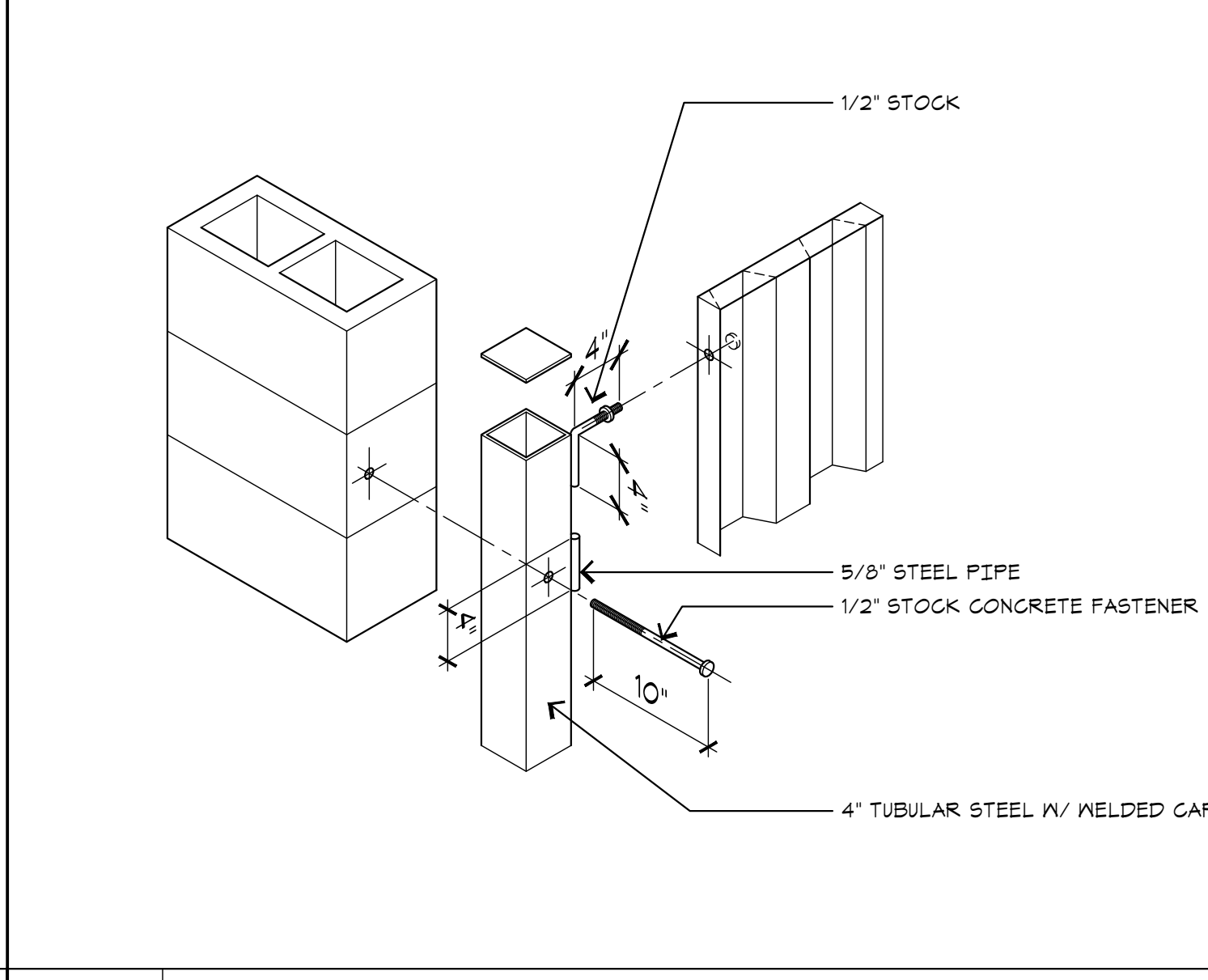
- NOTES:**
- ALL CONSTRUCTION SHALL COMPLY WITH THE FRESNO MUNICIPAL CODE
 - GROUT ALL CELLS
 - ALL MASONRY UNITS SHALL COMPLY WITH THE LATEST ADOPTED CALIFORNIA BUILDING CODE AND U.B.C. STANDARD 24-4 GRADE N.
 - ALL MASONRY WALLS SHALL BE INSPECTED BY THE CITY OF FRESNO
 - DEPTH OF FOOTINGS ARE INTO NATURAL UNDISTURBED SOIL OR TESTED AND APPROVED COMPACTED FILL.
 - ALL MASONRY UNITS SHALL BE MINIMUM Fm=1500 PSI.
 - REINFORCING STEEL SHALL BE DEFORMED BAR, MIN GRADE 40.
 - FOOTING CONCRETE SHALL BE A MINIMUM 2000 PSI AT 28 DAYS.
 - MORTAR SHALL BE TYPE-S (MINIMUM 1800 PSI AT 28 DAYS).
 - FOUR AND ONE-HALF (4 1/2) PARTS SAND (MAXIMUM).
 - GROUT SHALL BE A MINIMUM 2000 PSI AT 28 DAYS.
 - ONE (1) PART CEMENT.
 - THREE (3) PARTS SAND.
 - TWO (2) PARTS PEA GRAVEL.
 - FINISH PAD ELEVATIONS TO BE FLUSH WITH GRADE AT ACCESS PAVEMENT
 - ANY GATE HINGES SHALL BE LOCATED ON THE OUTSIDE.
 - METAL DOORS ARE REQUIRED ON ALL ENCLOSURES. CHAIN LINK IS NOT ACCEPTABLE.
 - 8" CONCRETE BLOCK TO BE USED FOR WALLS.



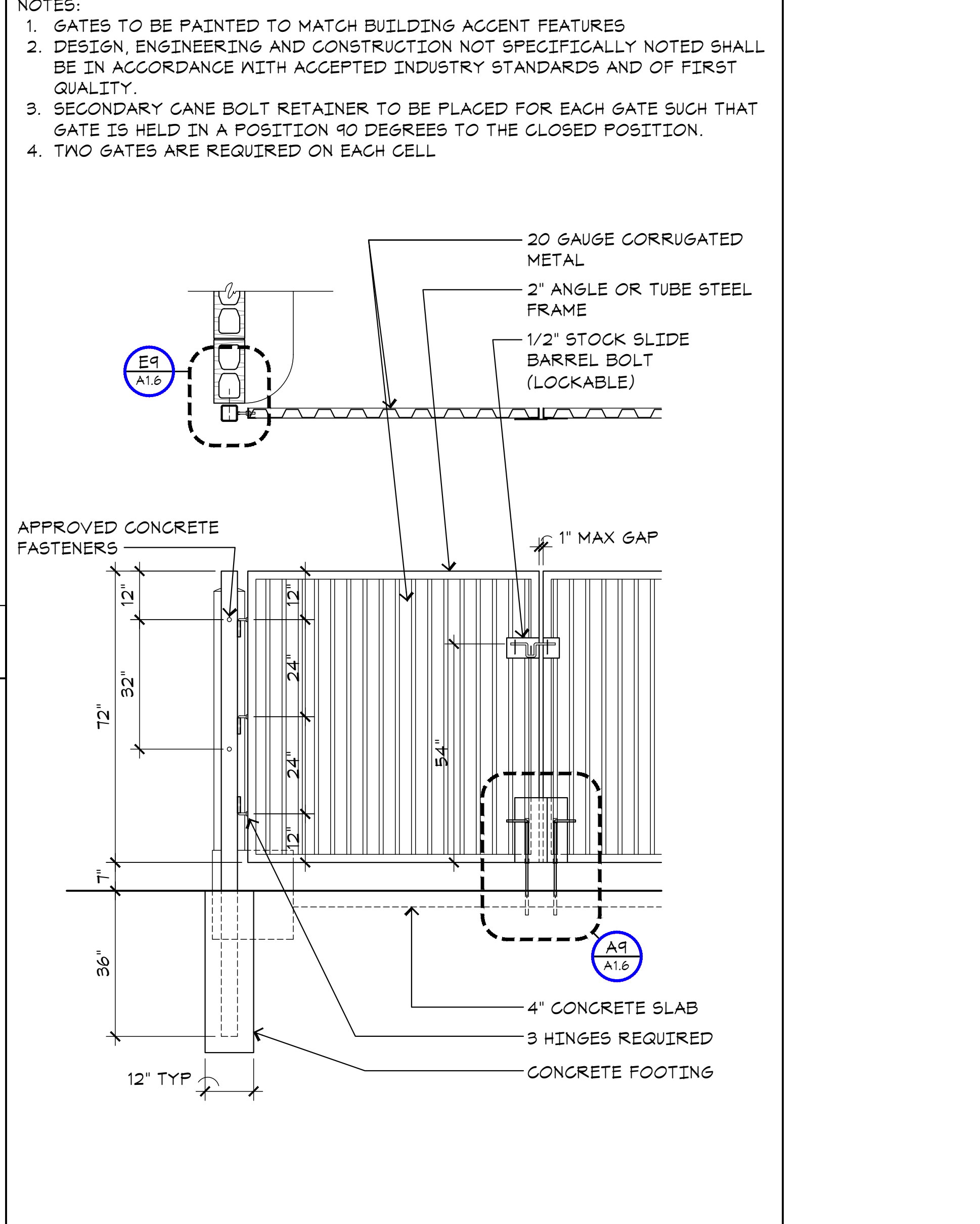
J1 CONTROL JOINT
A1.5 SCALE: 6"=1'-0"



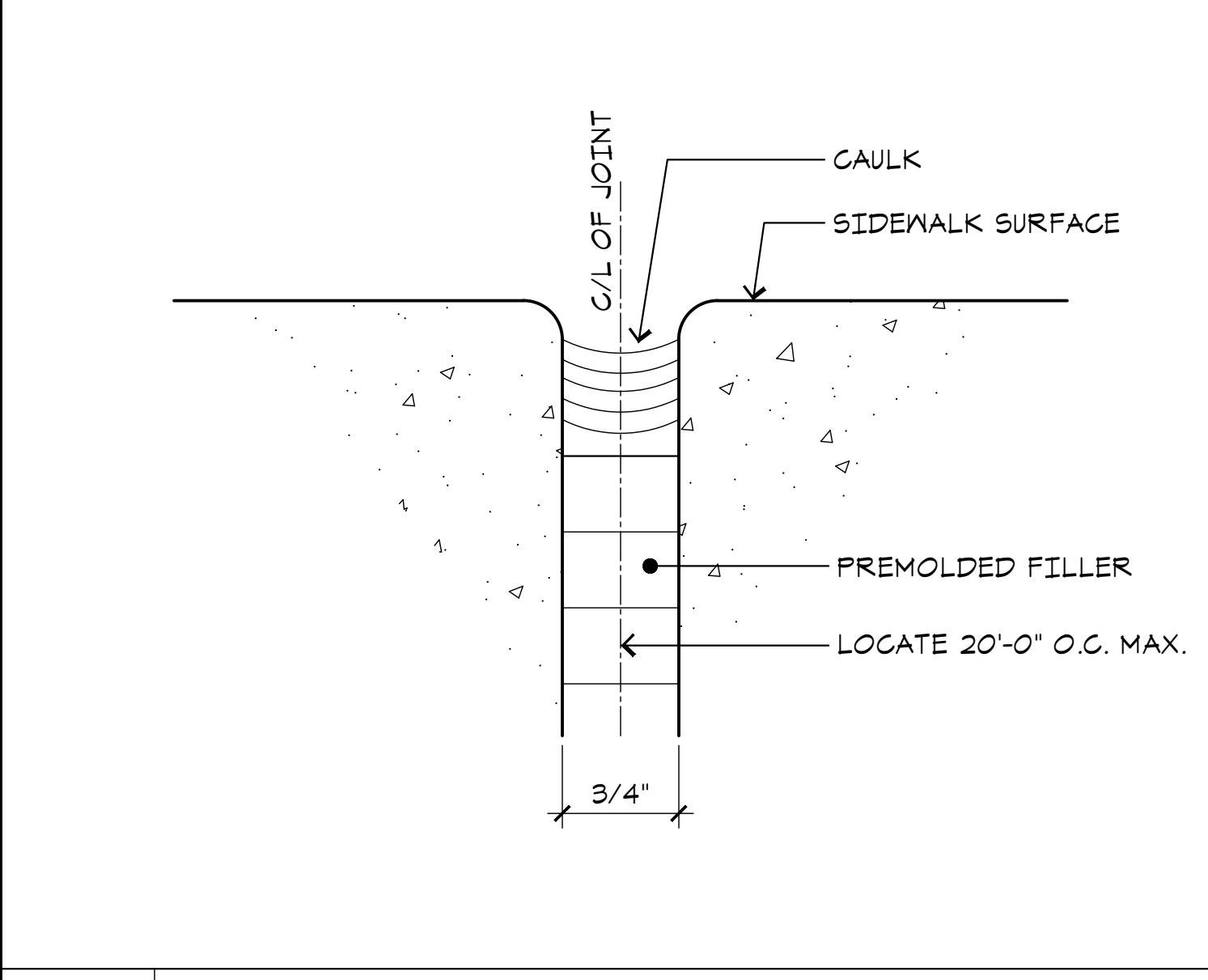
J5 3 LOOP 5 BIKE RACK
A1.5 SCALE: 1/2"=1'-0"



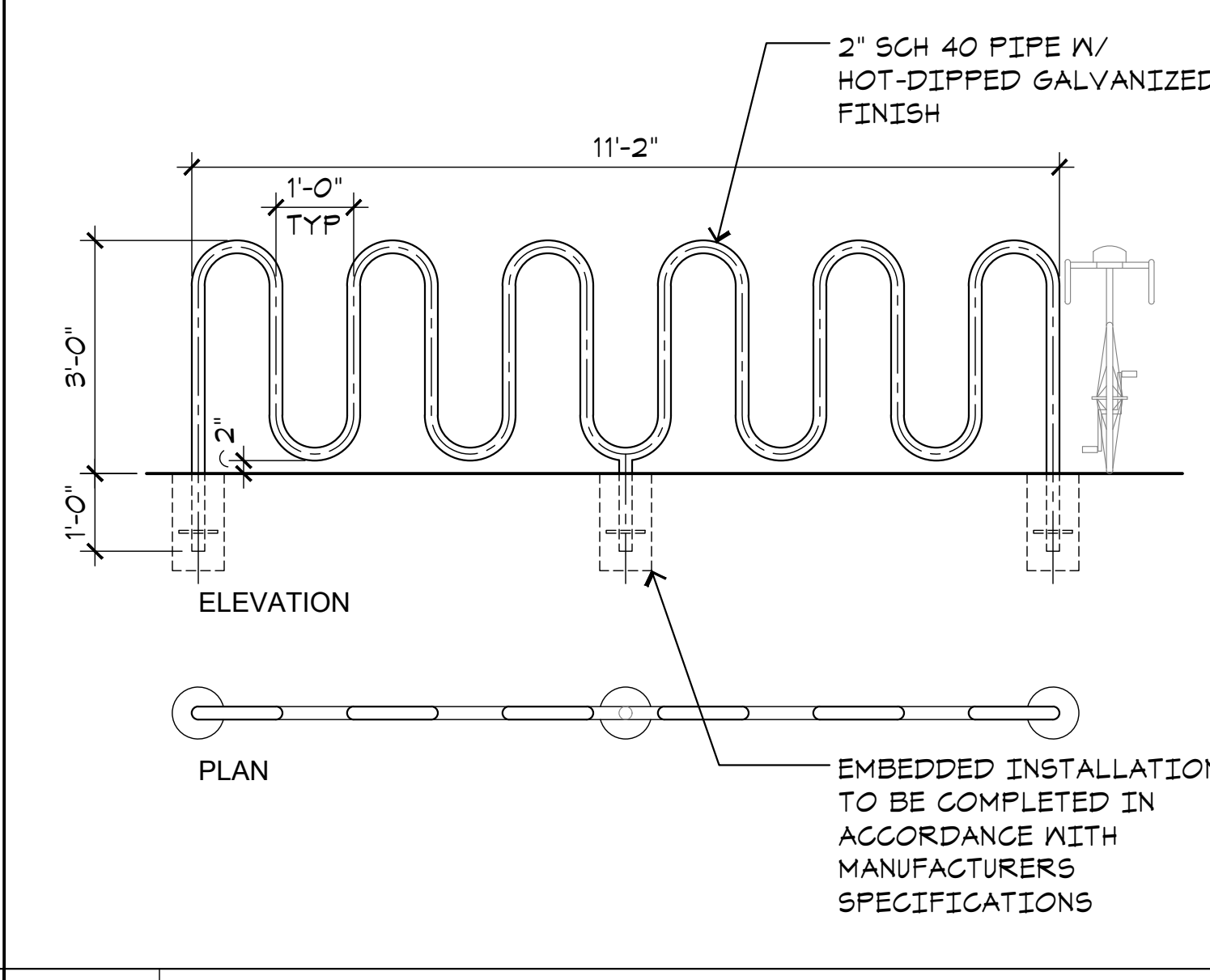
E9 GATE POST DETAIL
A1.5 SCALE: NONE



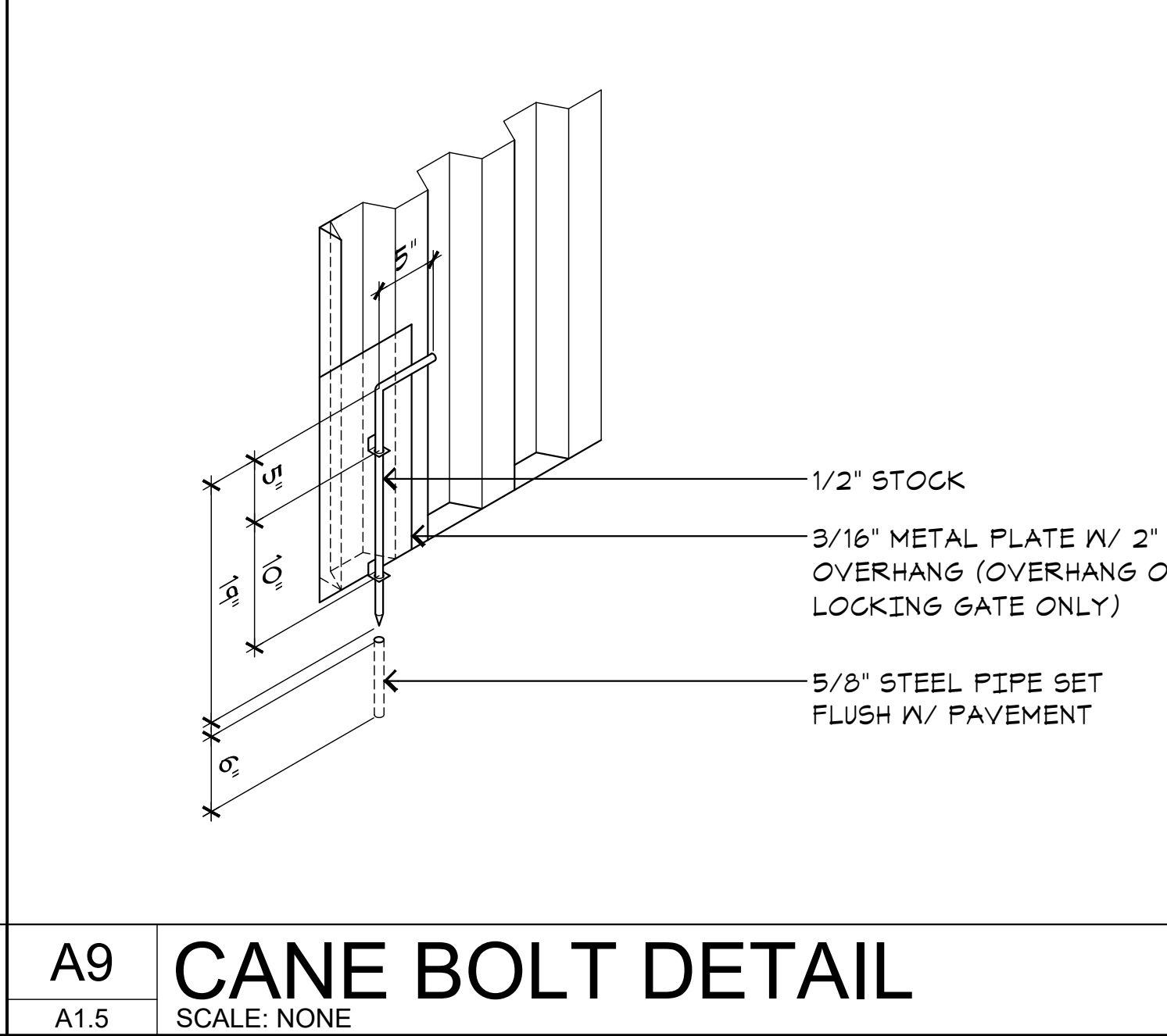
A13 TRASH ENCLOSURE GATES
A1.5 SCALE: 1/2"=1'-0"



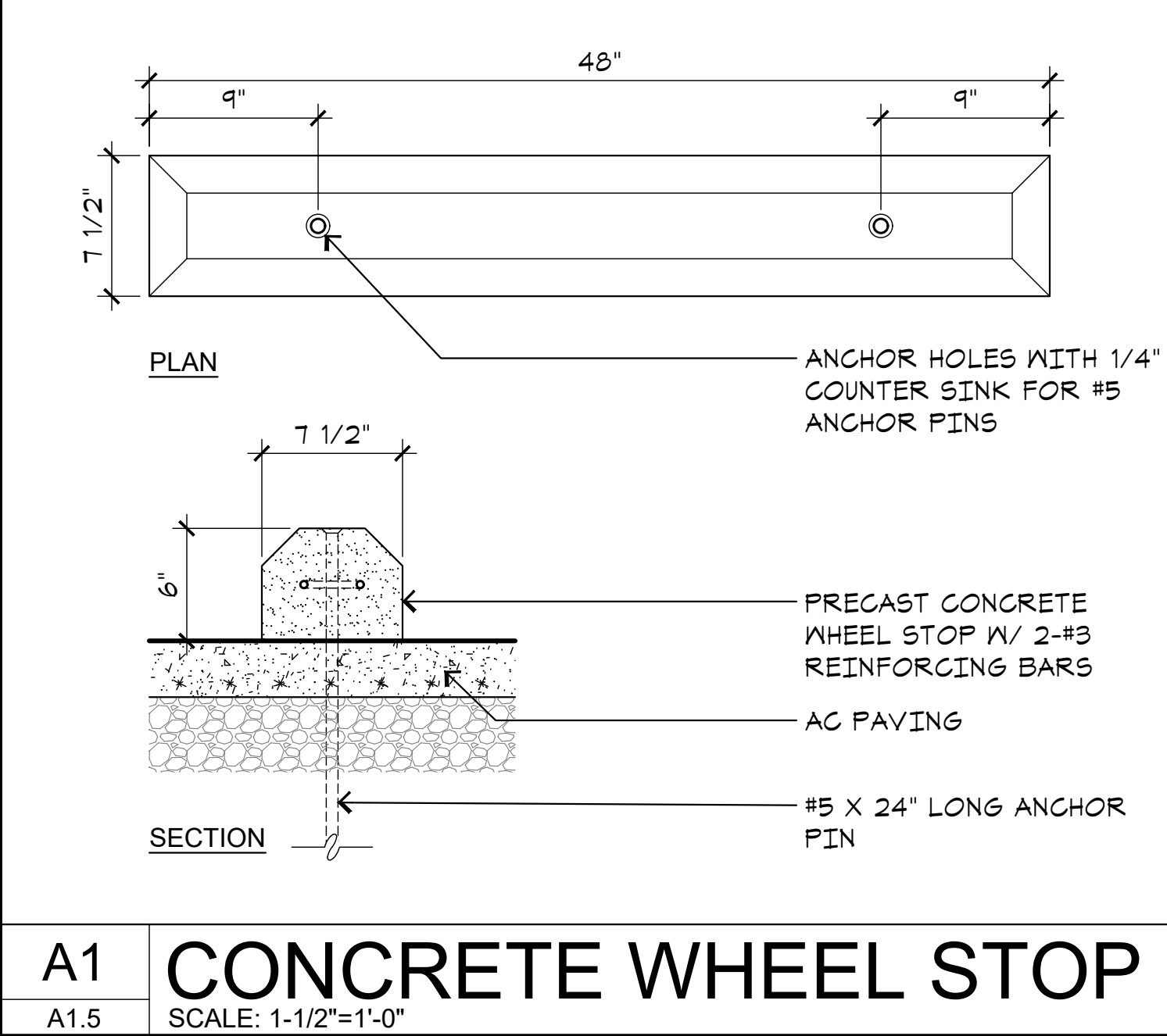
E1 EXPANSION JOINT
A1.5 SCALE: FULL



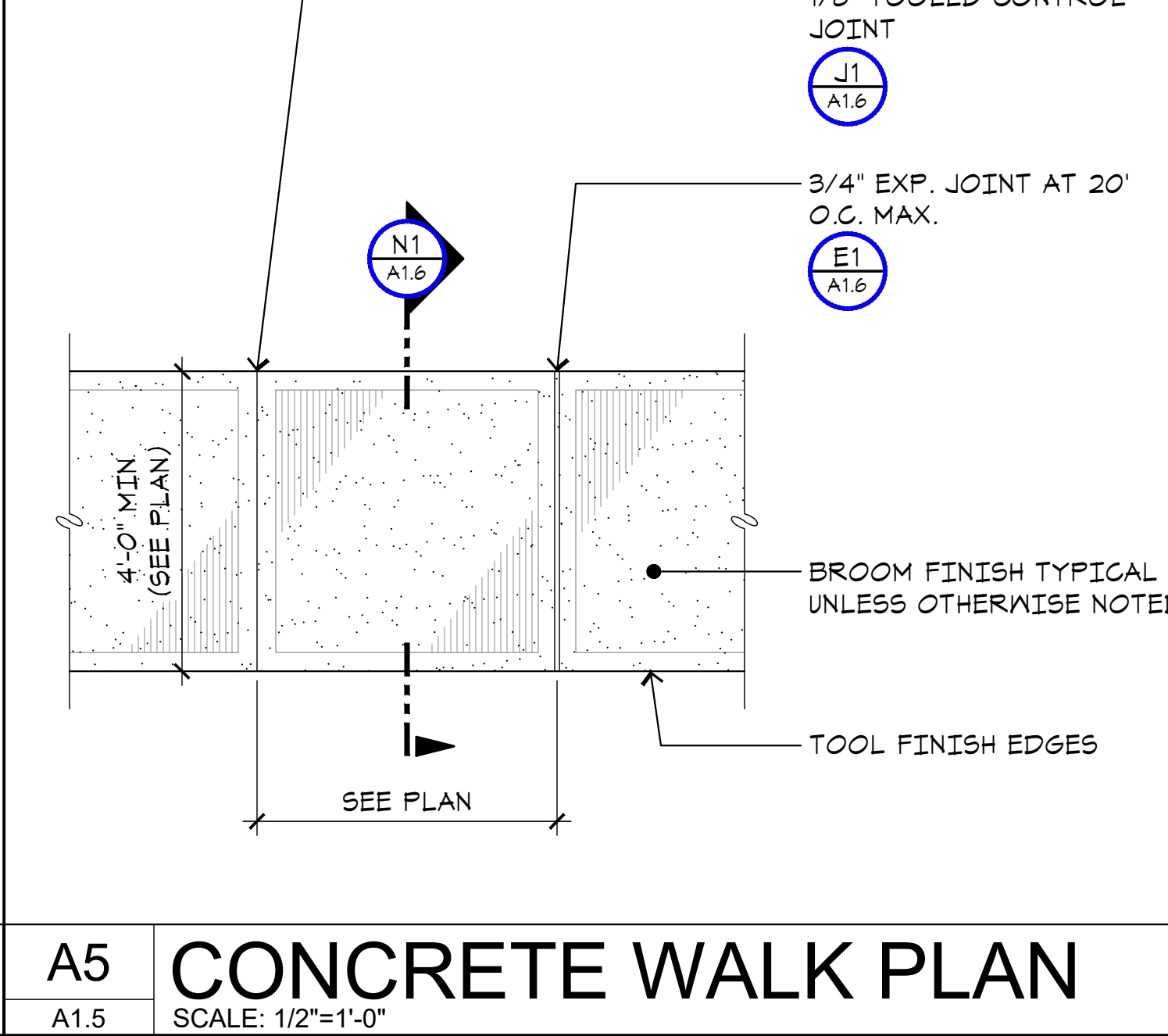
E5 11 LOOP 13 BIKE RACK
A1.5 SCALE: 1/2"=1'-0"



A9 CANE BOLT DETAIL
A1.5 SCALE: NONE



A1 CONCRETE WHEEL STOP
A1.5 SCALE: 1-1/2"=1'-0"



A5 CONCRETE WALK PLAN
A1.5 SCALE: 1/2"=1'-0"

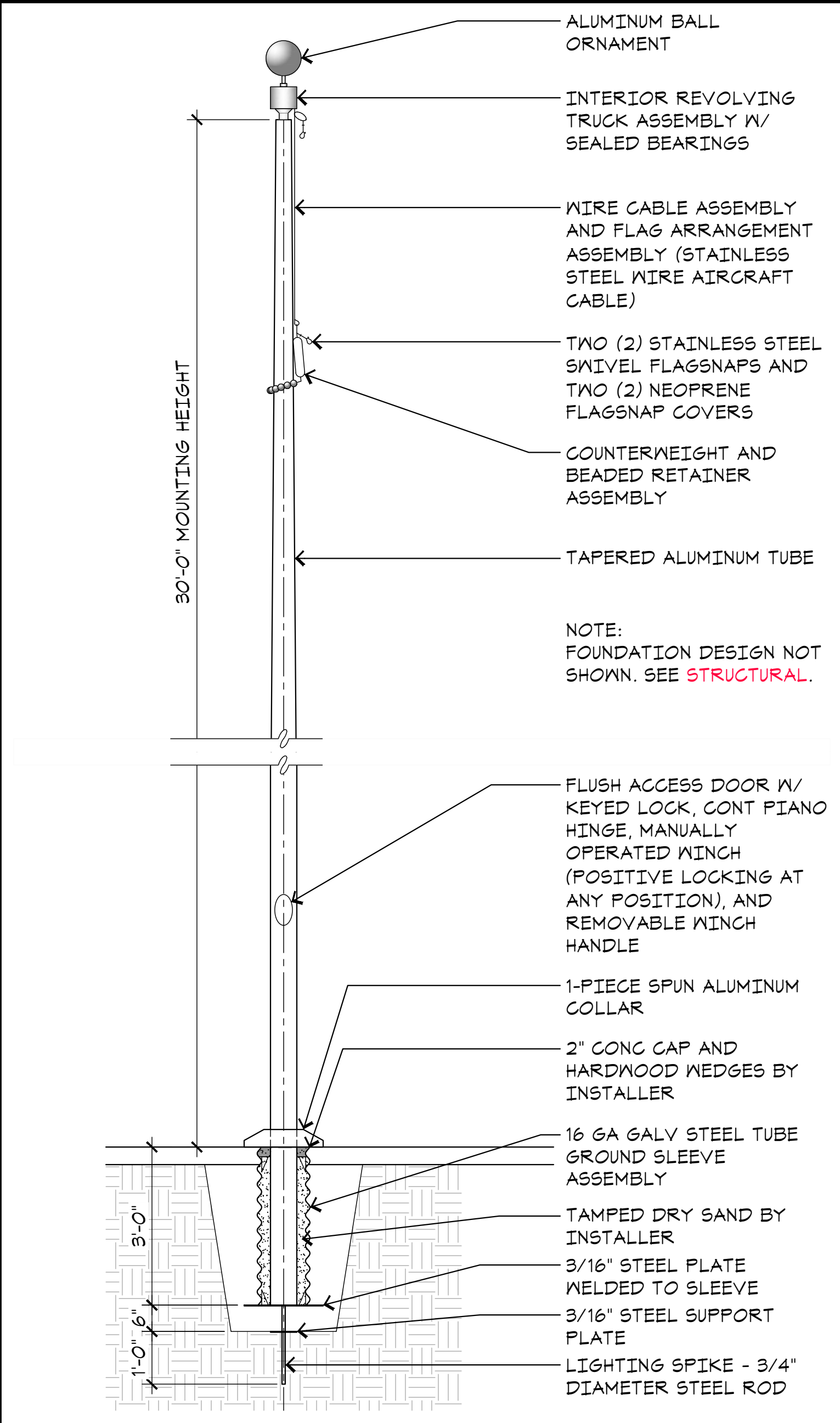


Project:
Sheriff Area 2 Sub-Station
1128 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 06.02.2020
PROJECT NO: 19003 / 19003
FILE NAME: 19003_A1-5_Site_Details

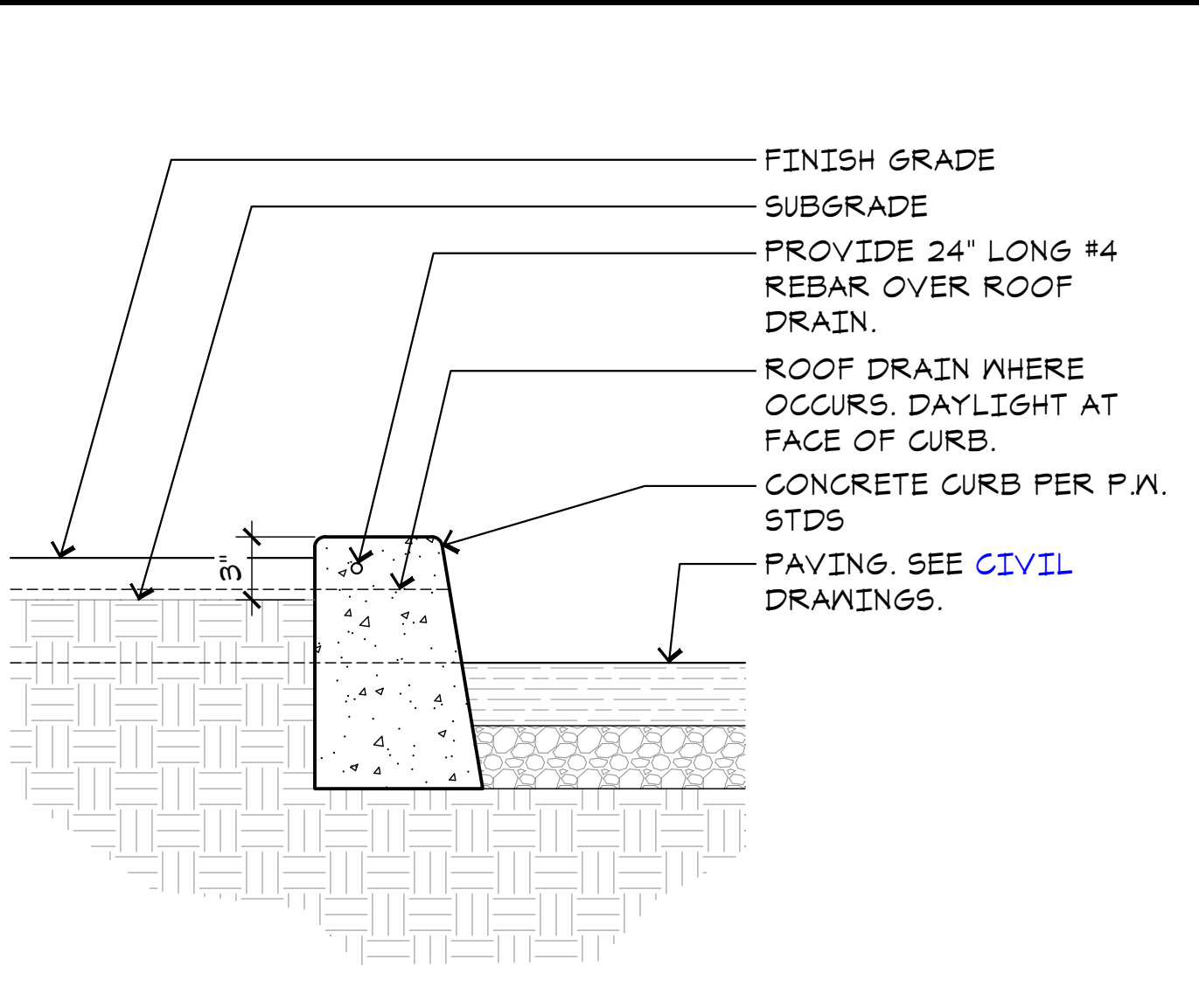
Sheet Content:
SITE DETAILS



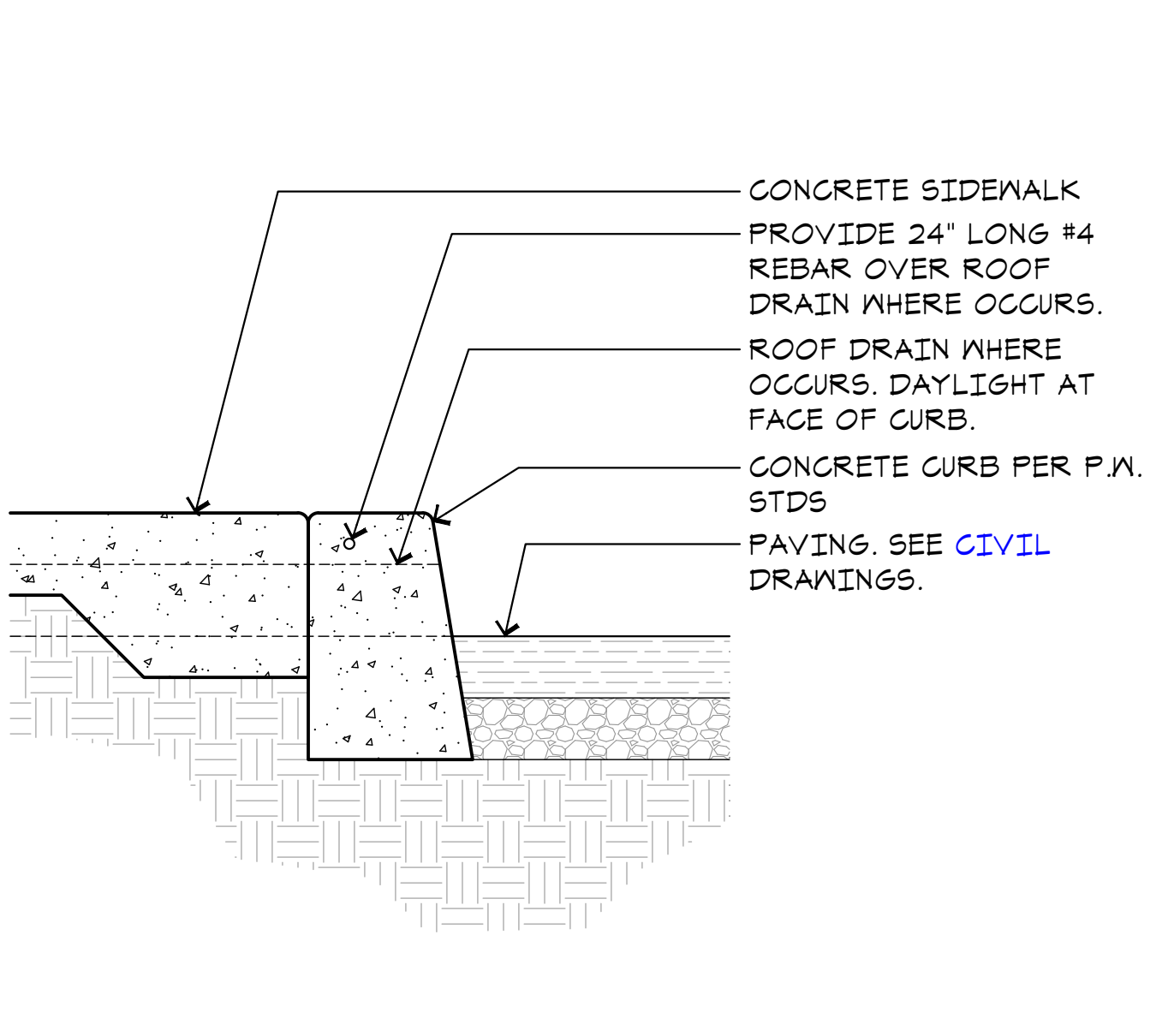
Sheet No.
A1.5



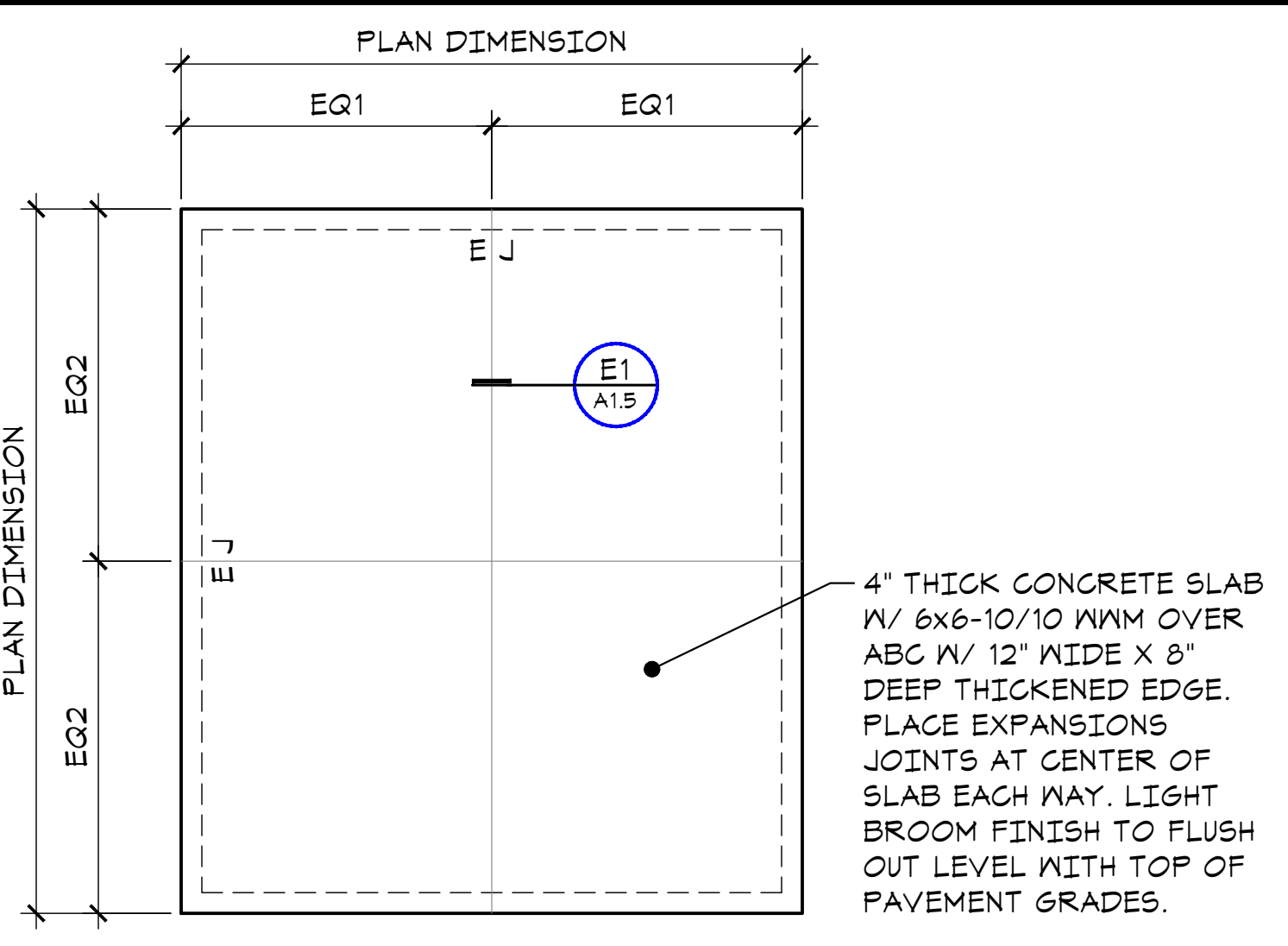
J3 **DETAIL AT FLAGPOLE**
 A1.6 SCALE: 1/2"=1'-0"



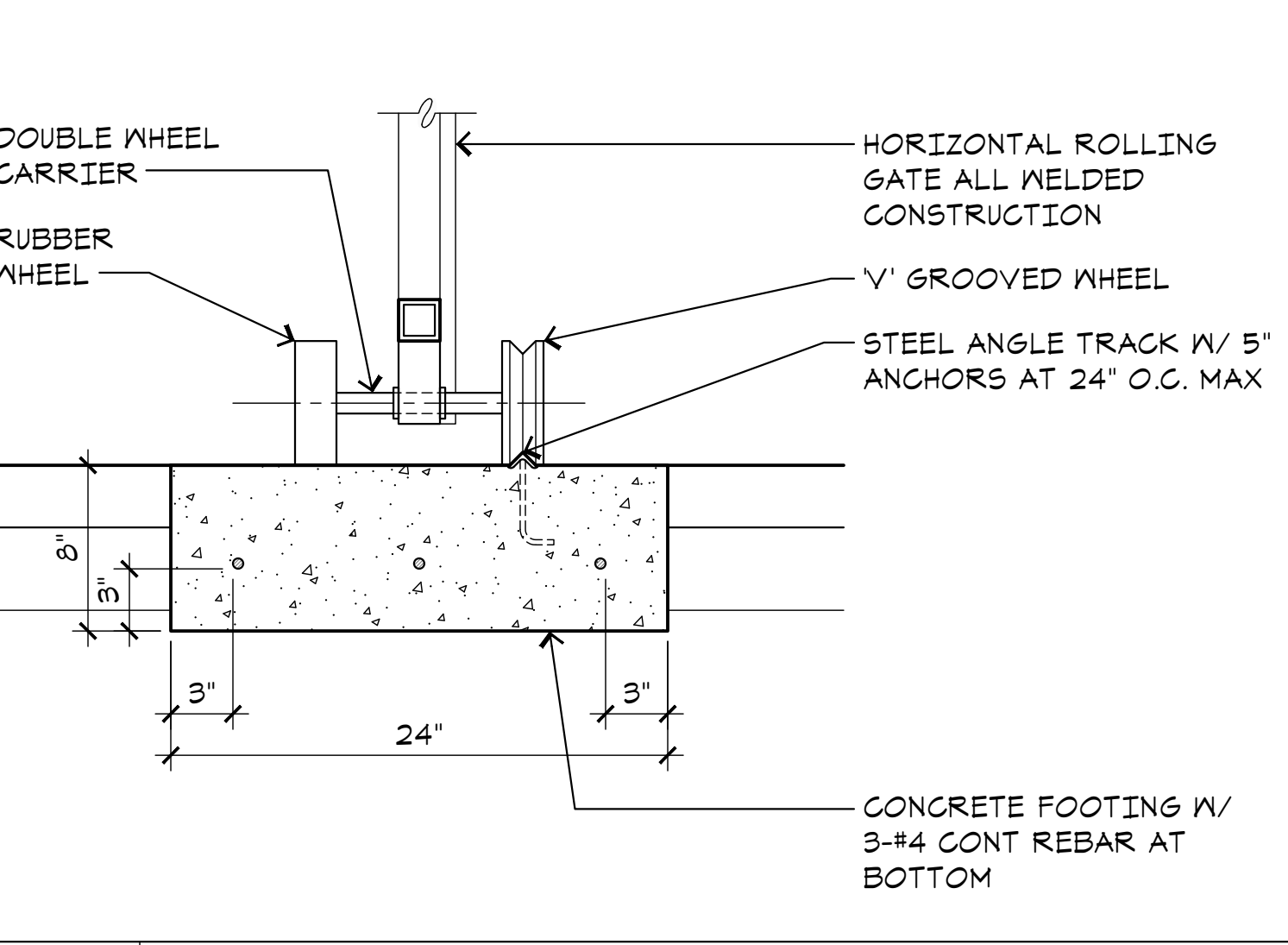
N7 **CURB DETAIL**
 A1.6 SCALE: 1-1/2"=1'-0"



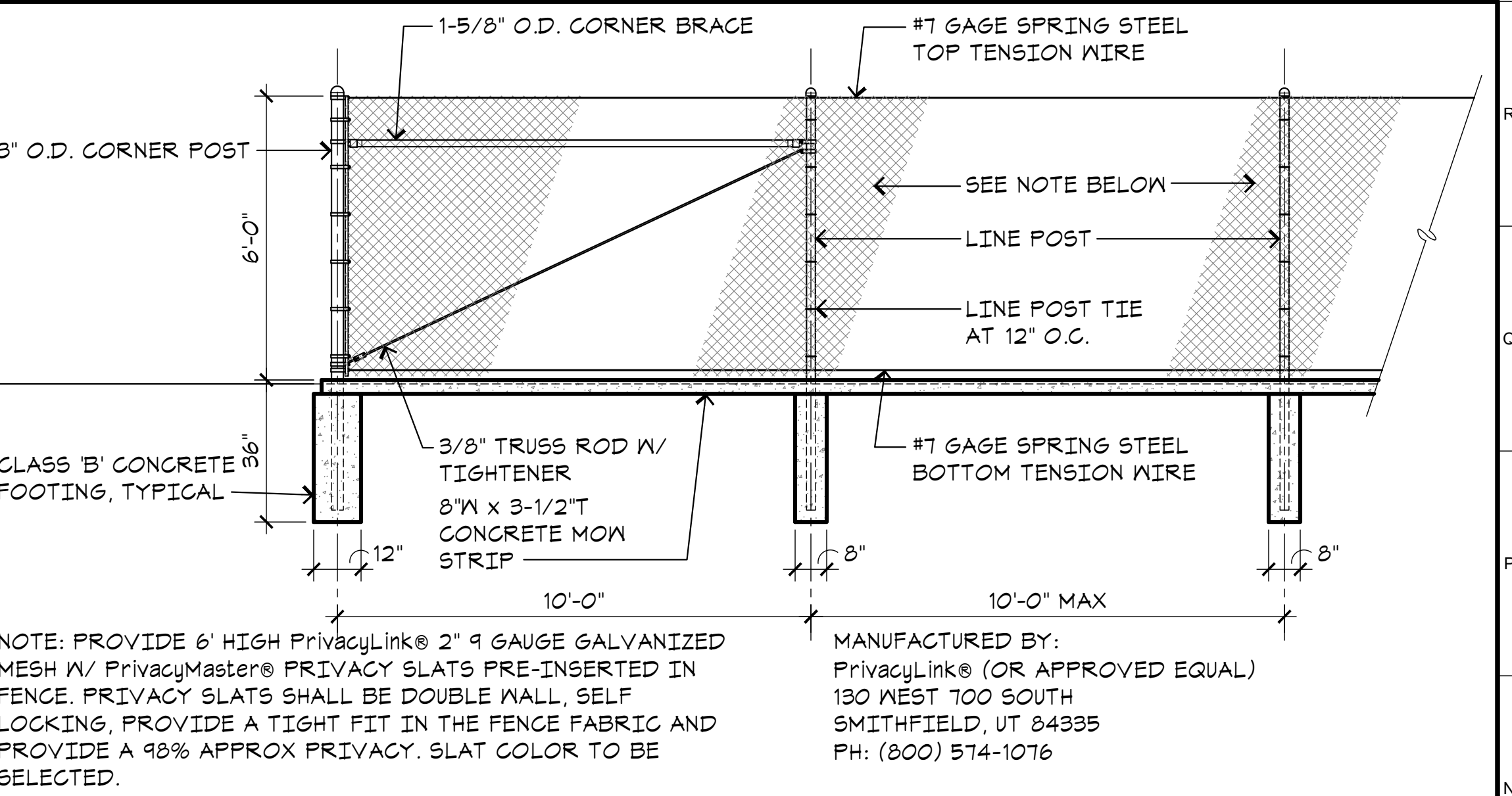
J7 **CURB DETAIL AT WALK**
 A1.6 SCALE: 1-1/2"=1'-0"



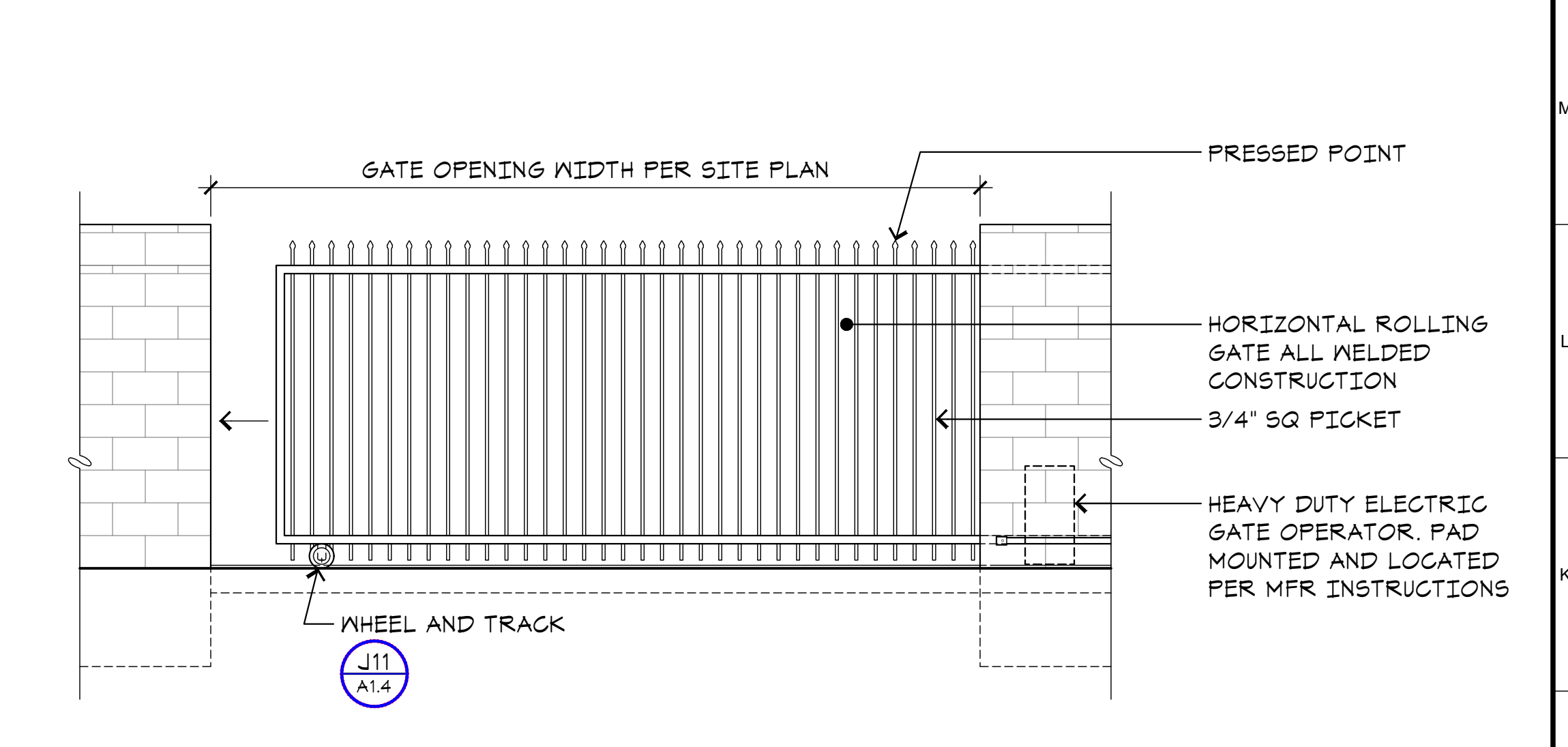
N11 **SEA TRAIN STORAGE CONTAINER SLAB**
 A1.6 SCALE: 1/8"=1'-0"



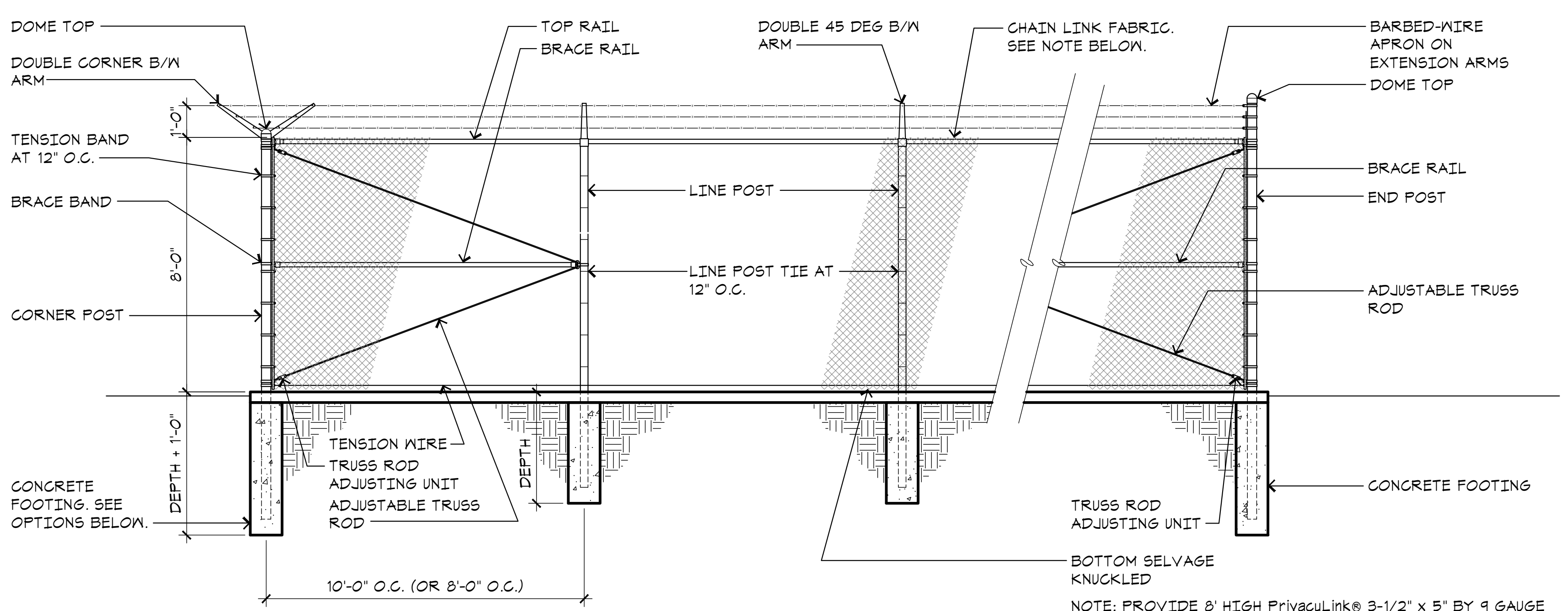
J11 **SLIDING GATE WHEEL TRACK**
 A1.6 SCALE: 1-1/2"=1'-0"



N15 **TYPICAL CHAIN LINK FENCE ELEVATION**
 A1.6 SCALE: 3/8"=1'-0"



J15 **ROLLING GATE DETAIL**
 A1.6 SCALE: 3/8"=1'-0"



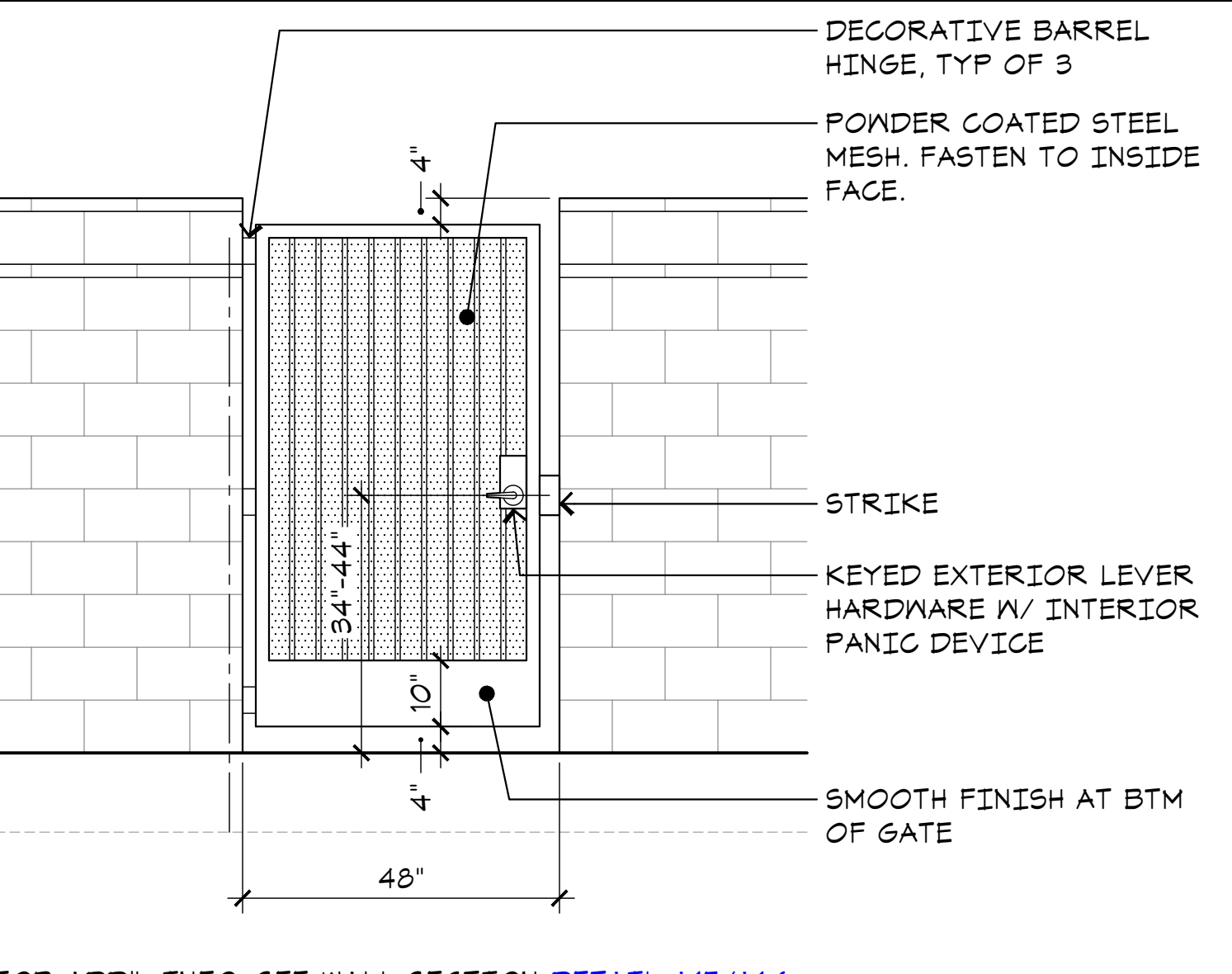
FENCE DESIGN CRITERIA
 PROVIDE FENCE DESIGN PER CHAIN LINK FENCE MANUFACTURERS INSTITUTE'S 'CHAIN LINK FENCE WIND LOAD GUIDE FOR THE SELECTION OF LINE POST AND LINE POST SPACING (REVISED MAY, 2010)'.
 DESIGN WIND SPEED = 100 MPH.

CONCRETE FOOTING OPTIONS
 OPTION #1 - 12" DIA X 5'-3" DEEP AT 10'-0" O.C.
 OPTION #2 - 12" DIA X 5'-0" DEEP AT 8'-0" O.C.
 OPTION #3 - 18" DIA X 4'-9" DEEP AT 10'-0" O.C.
 OPTION #4 - 18" DIA X 4'-3" DEEP AT 8'-0" O.C.

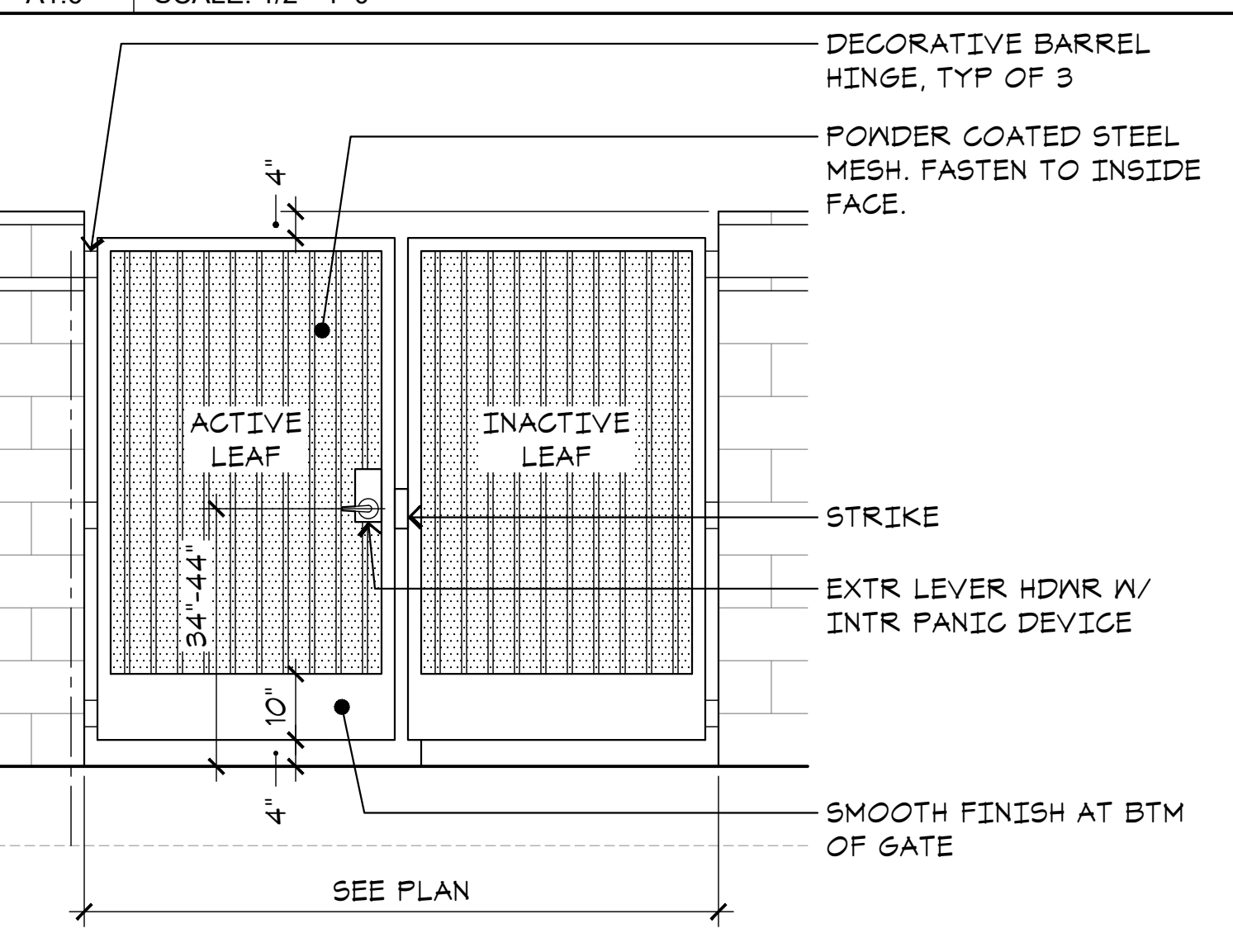
NOTE: PROVIDE 6' HIGH PrivacyLink® 3-1/2" x 5" BY 9 GAUGE GALVANIZED MESH W/ PrivacyLink® PRIVACY SLATS PRE-INSERTED IN FENCE. PRIVACY SLATS SHALL BE DOUBLE WALL, SELF LOCKING. PROVIDE A TIGHT FIT IN THE FENCE FABRIC AND PROVIDE A 98% APPROX PRIVACY. SLAT COLOR TO BE SELECTED.

MANUFACTURED BY:
 PrivacyLink® (OR APPROVED EQUAL)
 130 WEST 100 SOUTH
 SMITHFIELD, UT 84335
 PH: (800) 574-1076

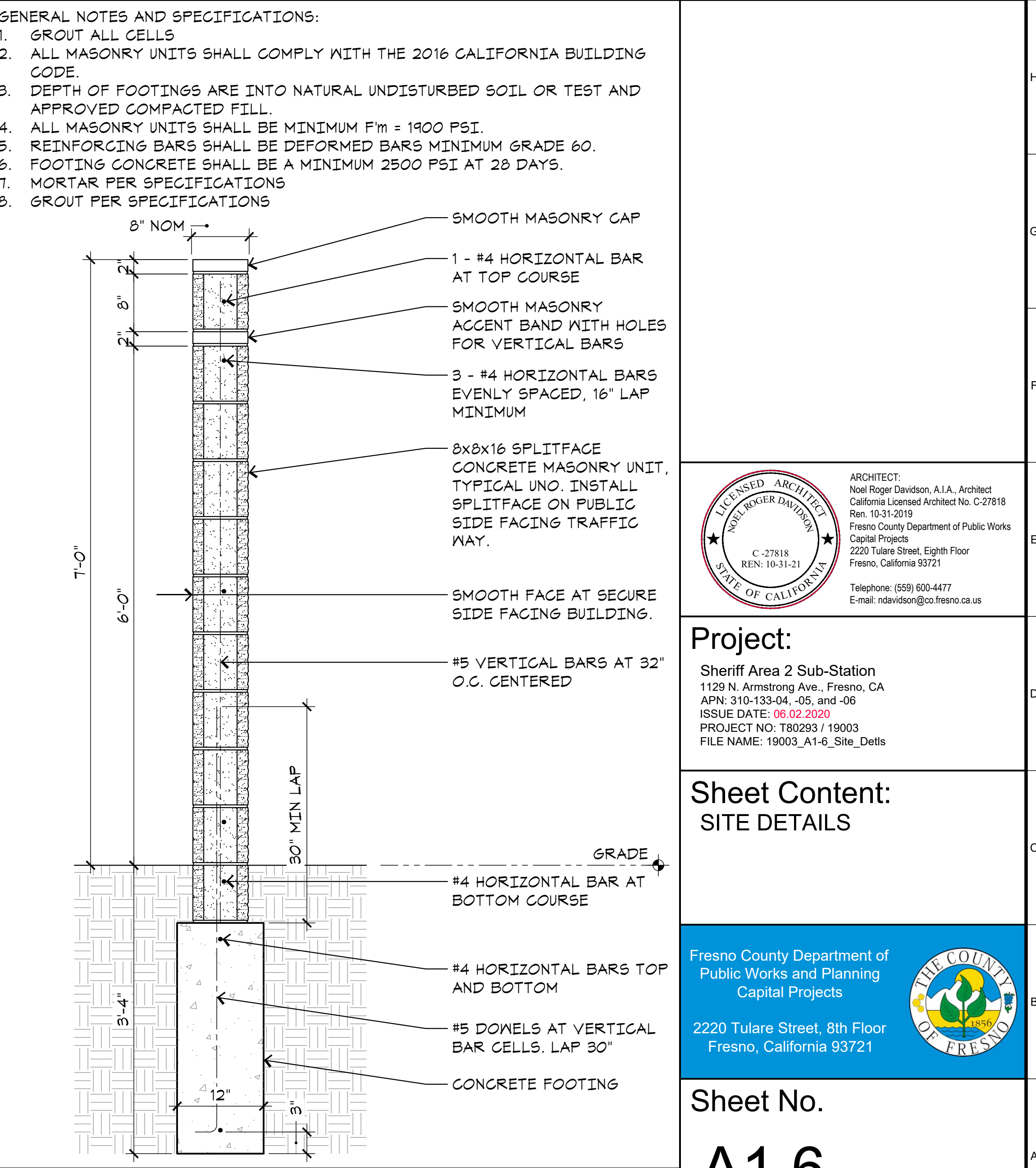
A1 **TYPICAL CHAIN LINK FENCE ELEVATION**
 A1.6 SCALE: 3/8"=1'-0"



E11 **GATE ELEVATION**
 A1.6 SCALE: 1/2"=1'-0"



A11 **GATE ELEVATION**
 A1.6 SCALE: 1/2"=1'-0"



A15 **WALL SECTION**
 A1.6 SCALE: 1"=1'-0"



Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04-.05, and .06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 180293 / 18003
 FILE NAME: 19003_A1-6_Site_Details

Sheet Content:
 SITE DETAILS



Sheet No.
A1.6



SUBSTATION BUILDING AREAS & OCC

DESC	AREA	OLF	OCC
TOTAL BUILDING	22,700 SF		
A-2 ASSEMBLY	730 SF	15	49
A-3 ASSEMBLY	3,937 SF	15	263
A-3 ASSEMBLY (CONCENTRATED)	1,272 SF	7	182
B BUSINESS	14,233 SF	100	143
S-1 STORAGE	2,529 SF	300	9
TOTAL OCCUPANCY			646

NOTE: ONE (1) SF ROUND-OFF ERROR MAY OCCUR

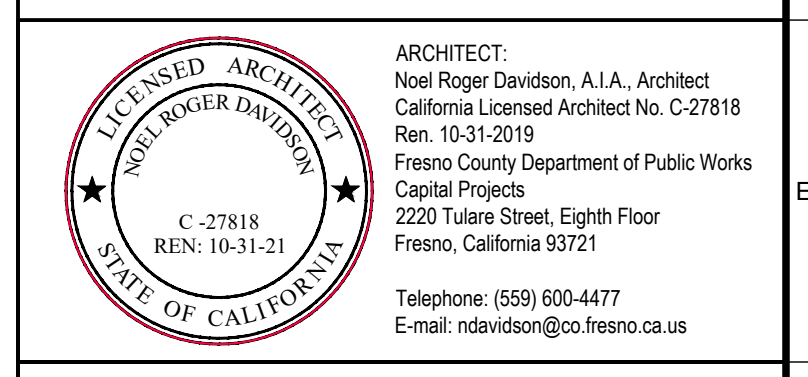
PROJECT DATA

- PROJECT TITLE: FRESNO COUNTY SHERIFF AREA 2 SUBSTATION
- PROJECT ADDRESS: 1129 N ARMSTRONG AVE FRESNO, CA 93721
- APN: 310-133-04, 05, 06T
- LEGAL:
- ZONING: IL/UGM/CZ
- SITE AREA: 289,080 SF (6.50 AC)
- SUBSTATION BLDG
 - BLDG AREA: 22,700 SF
 - OCCUPANCY: A-3, B, W/ A-2 AND S-1 ACCESSORY
 - CONSTRUCTION: IIB - SPRINKLERED
 - OCCUPANTS: 646
- STORAGE BLDG
 - BLDG AREA: 35,520 SF
 - OCCUPANCY: S-2
 - CONSTRUCTION: IIB - SPRINKLERED
 - OCCUPANTS: 116
- SITE COVERAGE: 20.6%
- BUILDING CODE: 2016 CALIFORNIA BUILDING CODE
- SEISMIC DESIGN CATEGORY D
- COUNTY OF FRESNO SFR APPLICATION NO. 8156

CODE ANALYSIS

2016 CALIFORNIA BUILDING CODE

- CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION
 - SECTION 303 ASSEMBLY GROUP A
 - 303.3 Assembly Group A-2. Assembly uses intended for food and/or drink consumption.
 - 303.4 Assembly Group A-3. Assembly uses intended for worship, recreation or amusement and other assembly uses not classified elsewhere in Group A.
 - SECTION 304 BUSINESS GROUP B
 - 304.1 Business Group B. Business Group B occupancy includes, among others, the use of a building or structure, or a portion thereof, for office, professional or service-type transactions, including storage of records and accounts.
 - SECTION 311 STORAGE GROUP S
 - 311.2 Moderate-hazard storage, Group S-1. Buildings occupied for storage uses that are not classified as Group S-2, including, but not limited to, storage of the following: Bags (cloth, burlap and paper), Books and paper in rolls or packs, Clothing, Furniture, Etc.
- CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS
 - TABLE 504.3 ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE
 - GROUPS B, S, 5; TYPE IIB; 75'
 - GROUP A; 5 (with area increase); TYPE IIB; 55'
 - Max building height = 32'-0" x 55' OK
 - TABLE 506.2 ALLOWABLE AREA FACTOR IN SQUARE FEET
 - GROUP A-3; 51; TYPE IIB; 38,000 SF
 - GROUP B; 51; TYPE IIB; 42,000 SF
 - Building area = 22,700 SF < 38,000 SF OK
 - 508.3 Nonseparated occupancies. Buildings or portions of buildings that comply with the provisions of this section shall be considered as nonseparated occupancies.
 - 508.3.1 Occupancy classification. Nonseparated occupancies shall be individually classified in accordance with Section 302.1. The requirements of this code shall apply to each portion of the building based on the occupancy classification of that space. In addition, the most restrictive provisions of Chapter 9 which apply to the nonseparated occupancies shall apply to the total nonseparated occupancy area.
 - 508.3.2 Allowable building area and height. The allowable building area and height of the building or portion thereof shall be based on the most restrictive allowances for the occupancy groups under consideration for the type of construction of the building in accordance with Section 503.1.
 - 508.3.3 Separation. No separation is required between nonseparated occupancies.
- CHAPTER 6 TYPES OF CONSTRUCTION
 - TABLE 602 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE
 - X < 10; TYPE IIB; GROUP A, B; 1 HR
 - 10 < X; TYPE IIB; GROUP A, B; 0 HR
- CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES
 - TABLE 705.6 MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF OPENING PROTECTION
 - 1.1. FIRE SEPARATION DISTANCE (feet) = 15 to less than 20
 - 1.2. DEGREE OF OPENING PROTECTION = unprotected, sprinklered (UP, S)
 - 1.3. ALLOWABLE AREA = 75%.
- CHAPTER 10 MEANS OF EGRESS
 - TABLE 1020.1 CORRIDOR FIRE-RESISTANCE RATING
 - 10.1.1. GROUP A, B; OCCUPANT LOAD > 30; with sprinkler system; 0 HR



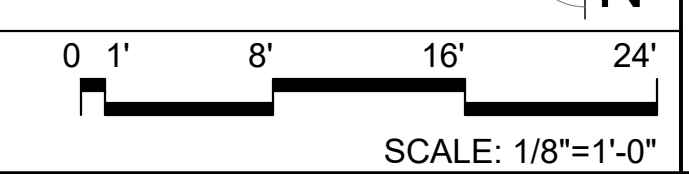
Project:
 Sheriff Area 2 Sub-Station
 1129 N Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
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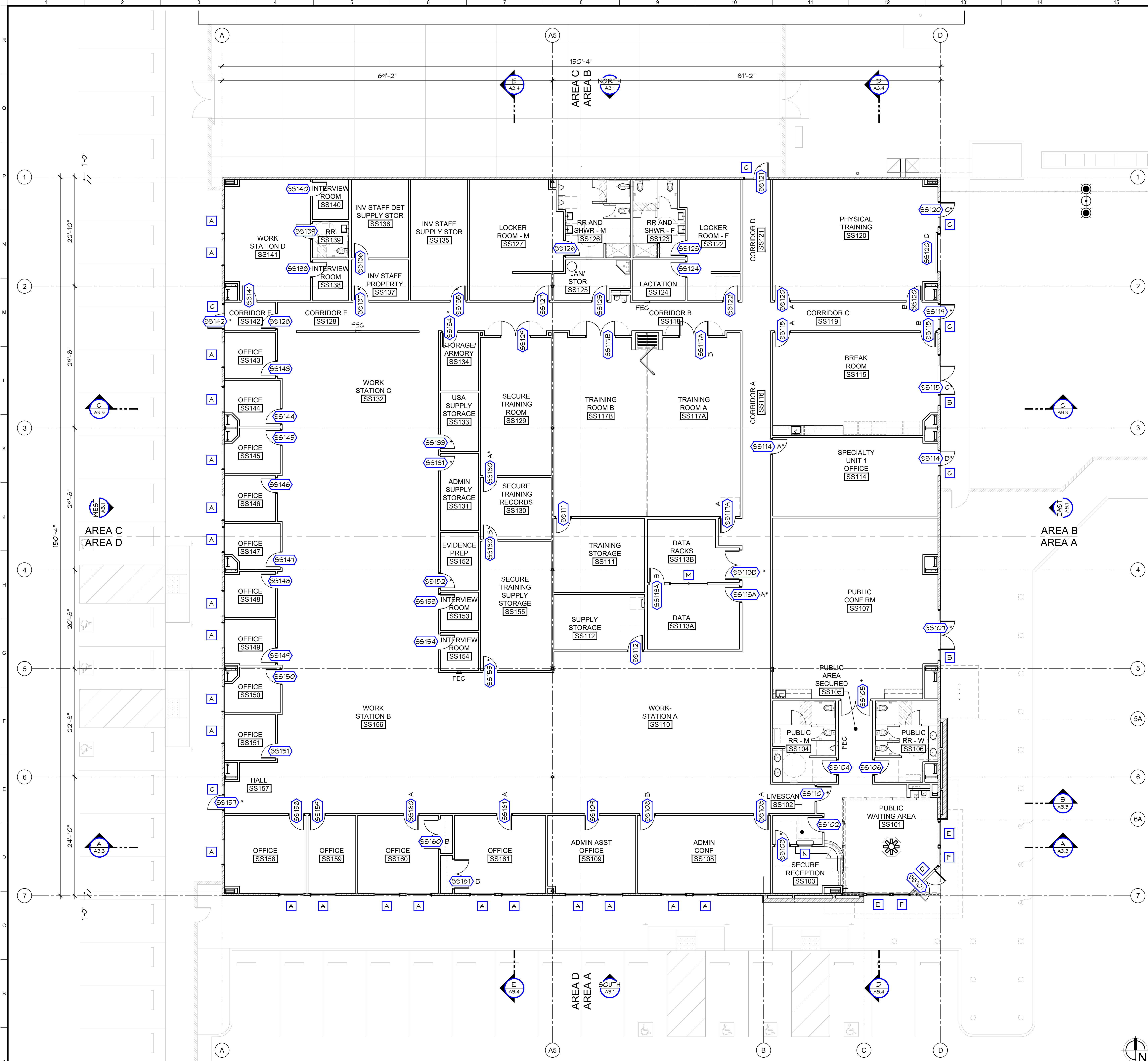
Sheet Content:
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Sheet No.
A2.1

A1 CODE PLAN
 A2.1





WALL LEGEND

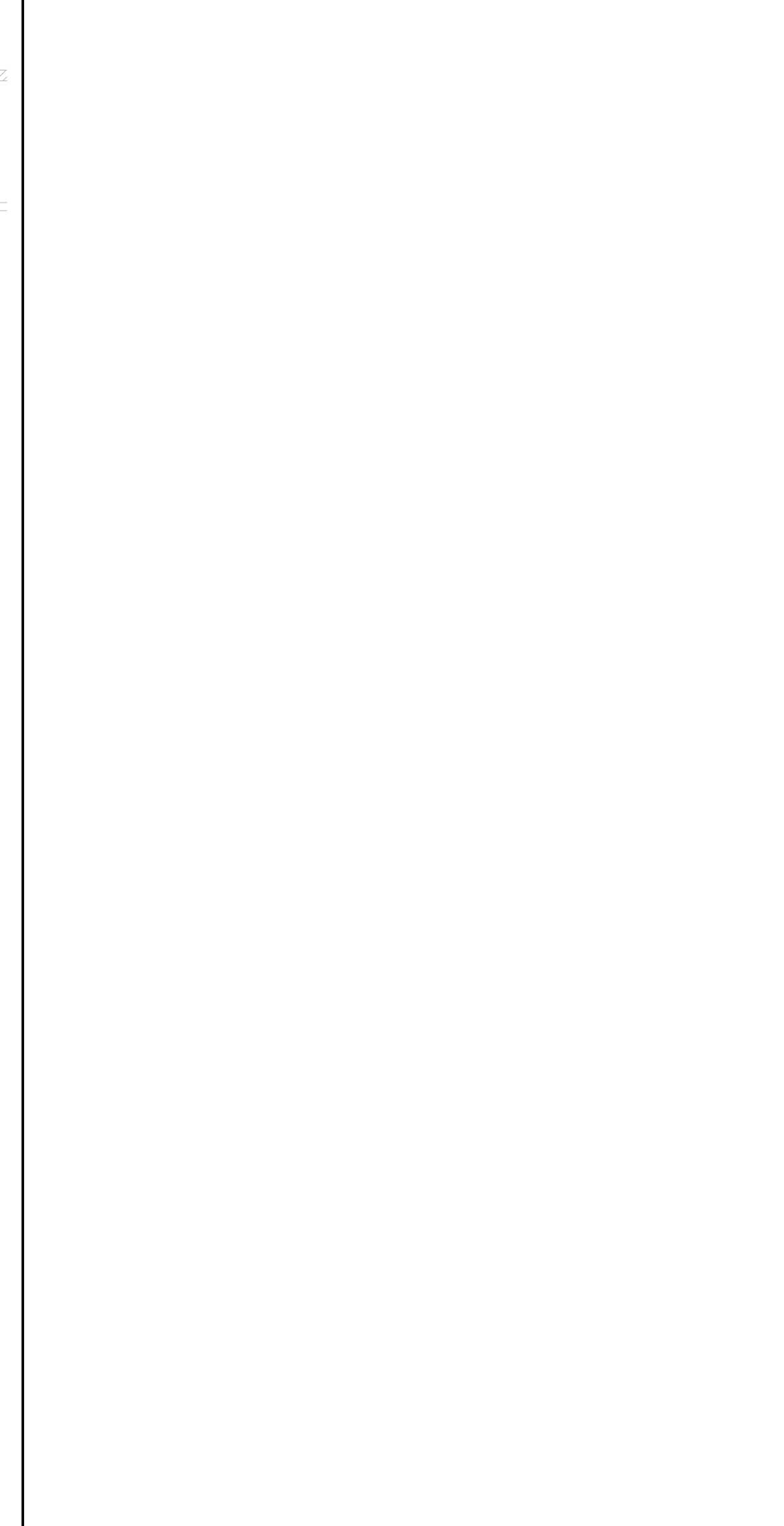
	EXTERIOR WALL (NR)
	1.1 INTERIOR WALL (NR) - 3 5/8" x 20 GA. METAL STUDS AT 24" O.C. MAX N/ 3-1/2" SOUND BATT INSULATION AND 5/8" GYP BD EA SIDE WHERE EXPOSED. EXTEND 6" MINIMUM ABOVE ADJACENT CEILING AND BRACE TO STRUCTURE.
	1.2 INTERIOR WALL (NR) - SAME AS 1.1) ABOVE EXCEPT USE 6" x 30 GA. METAL STUDS AT 24" O.C.

SHEET NOTES

- SEE 'SYMBOLS LEGEND', SHEET A0.1
- SEE 'ARCHITECTURAL NOTES', SHEET A0.2
- SEE 'TYPICAL STUD FRAMING' DETAIL J5/A6.1
- EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND BE MAINTAINED BY THE OWNER OR THE OWNER'S AUTHORIZED AGENT. 2016 CFC, SECTION 1004.3.

SYMBOLS LEGEND

	DOOR SYMBOL. SEE 'DOOR SCHEDULE', SHEET A4.1 * INDICATES SECURITY KEY CARD ACCESS
	WINDOW / FRAME SYMBOL. SEE DETAIL A10/A4.2



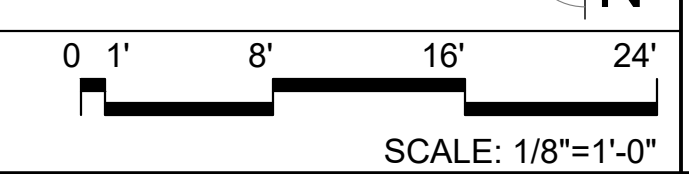
Project:
 Sheriff Area 2 Sub-Station
 11229 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
 FILE NAME: 19003_A2-2_Floor_Plan

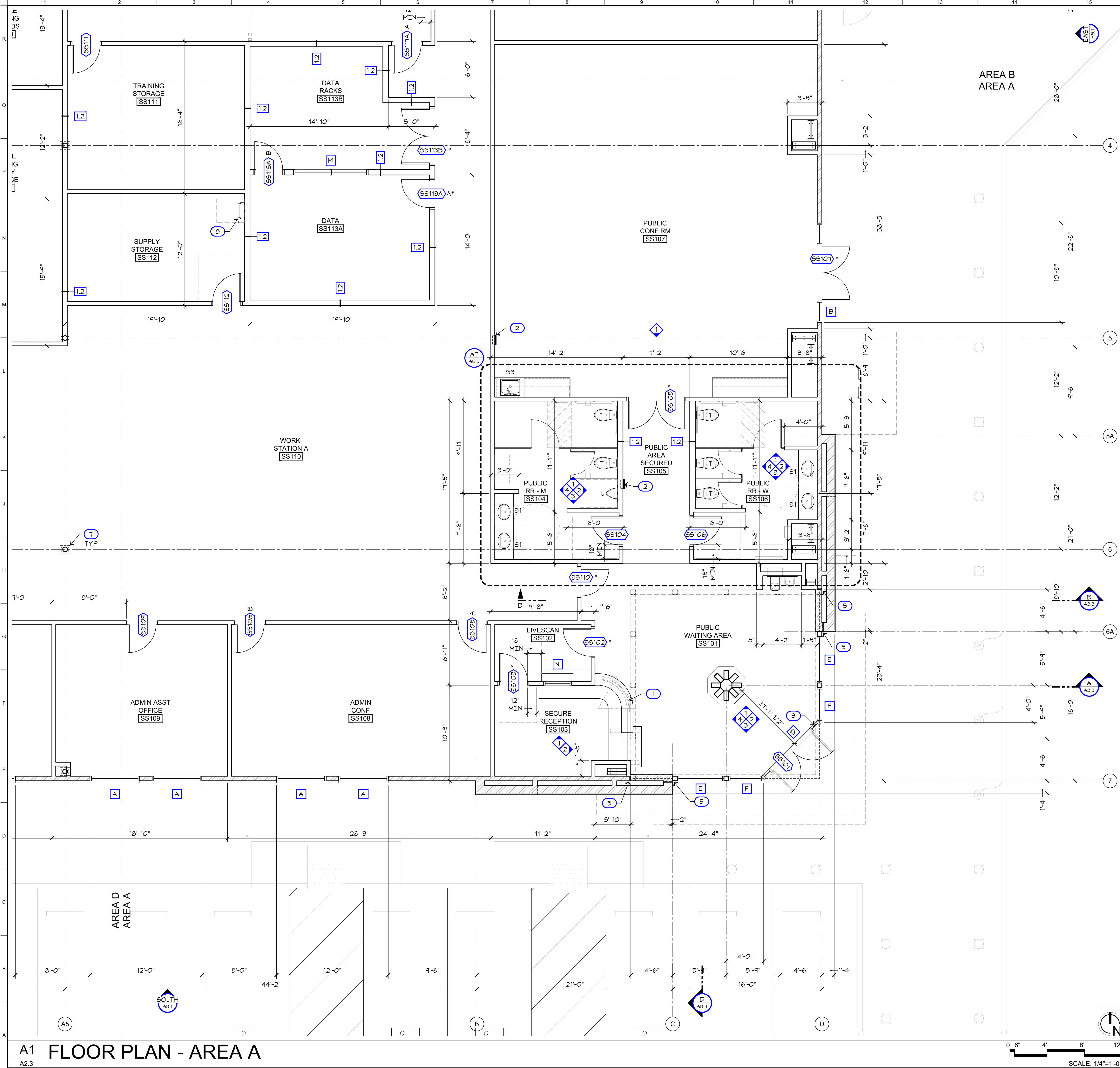
Sheet Content:
 FLOOR PLAN - OVERALL



Sheet No.
A2.2

A1 FLOOR PLAN - OVERALL
 A2.2





WALL LEGEND

	EXTERIOR WALL (NR)
	1.1 INTERIOR WALL (NR) - 3 5/8" x 20 GA. METAL STUDS AT 24" O.C. MAX W/ 3-1/2" SOUND BATT INSULATION AND 5/8" GYP BD EA SIDE WHERE EXPOSED. EXTEND 6" MINIMUM ABOVE ADJACENT CEILING AND BRACE TO STRUCTURE.
	1.2 INTERIOR WALL (NR) - SAME AS (1.1) ABOVE EXCEPT USE 6" x 30 GA. METAL STUDS AT 24" O.C.

SHEET NOTES

- SEE 'SYMBOLS LEGEND', SHEET A0.1
- SEE 'ARCHITECTURAL NOTES', SHEET A0.2
- SEE 'TYPICAL STUD FRAMING' DETAIL JS/A6.1

SYMBOLS LEGEND

	DOOR SYMBOL. SEE 'DOOR SCHEDULE', SHEET A4.1
	WINDOW / FRAME SYMBOL. SEE DETAIL A10/A4.2

KEYNOTES LEGEND

NOTE: SOME KEYNOTES MAY NOT APPEAR ON THIS SHEET.

- BALLISTIC RATED TRANSACTION WINDOW
- FIRE EXTINGUISHER CABINET. SEE DETAIL ES/A6.1. SEE ALSO 'FINISH SPECIFICATIONS', SHEET AS.1 FOR CABINET STYLE AND FINISH.
- 'EXIT' SIGN. SEE DETAIL AS/A4.2
- 'EXIT ROUTE' SIGN. SEE DETAIL AS/A4.2
- VERTICAL EXPANSION JOINT
- HVAC DUCTS. SEE MECHANICAL. PAINT AS SPECIFIED ON EXTERIOR ELEVATIONS, SHEETS AS.1 AND AS.2
- INTERIOR STEEL COLUMN. EMBED BASE BELOW SLAB. SEE STRUCTURAL
- ROOF ACCESS LADDER. SEE DETAIL JS/A6.4

EQPM / FIXT LEGEND

NOTE: SOME ITEMS MAY NOT APPEAR ON THIS SHEET.

- B BENCH
- DF DRINKING FOUNTAIN. SEE PLUMBING
- DW DISHWASHER
- L LOCKER
- R REFRIGERATOR
- S1 SINK 1. SEE PLUMBING
- S2 SINK 2. SEE PLUMBING
- S3 SINK 3. SEE PLUMBING
- SH SHOWER. SEE PLUMBING
- T TOILET. SEE PLUMBING
- V VENDING MACHINE
- WH WATER HEATER. SEE PLUMBING

EQPM / FIXT LEGEND

NOTE: SOME ITEMS MAY NOT APPEAR ON THIS SHEET.

- B BENCH
- DF DRINKING FOUNTAIN. SEE PLUMBING
- DW DISHWASHER
- L LOCKER
- R REFRIGERATOR
- S1 SINK 1. SEE PLUMBING
- S2 SINK 2. SEE PLUMBING
- S3 SINK 3. SEE PLUMBING
- SH SHOWER. SEE PLUMBING
- T TOILET. SEE PLUMBING
- V VENDING MACHINE
- WH WATER HEATER. SEE PLUMBING

KEY PLAN

Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
 FILE NAME: 19003_A2-3_Floor_Plan_Area_A

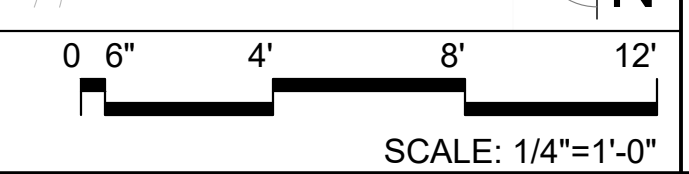
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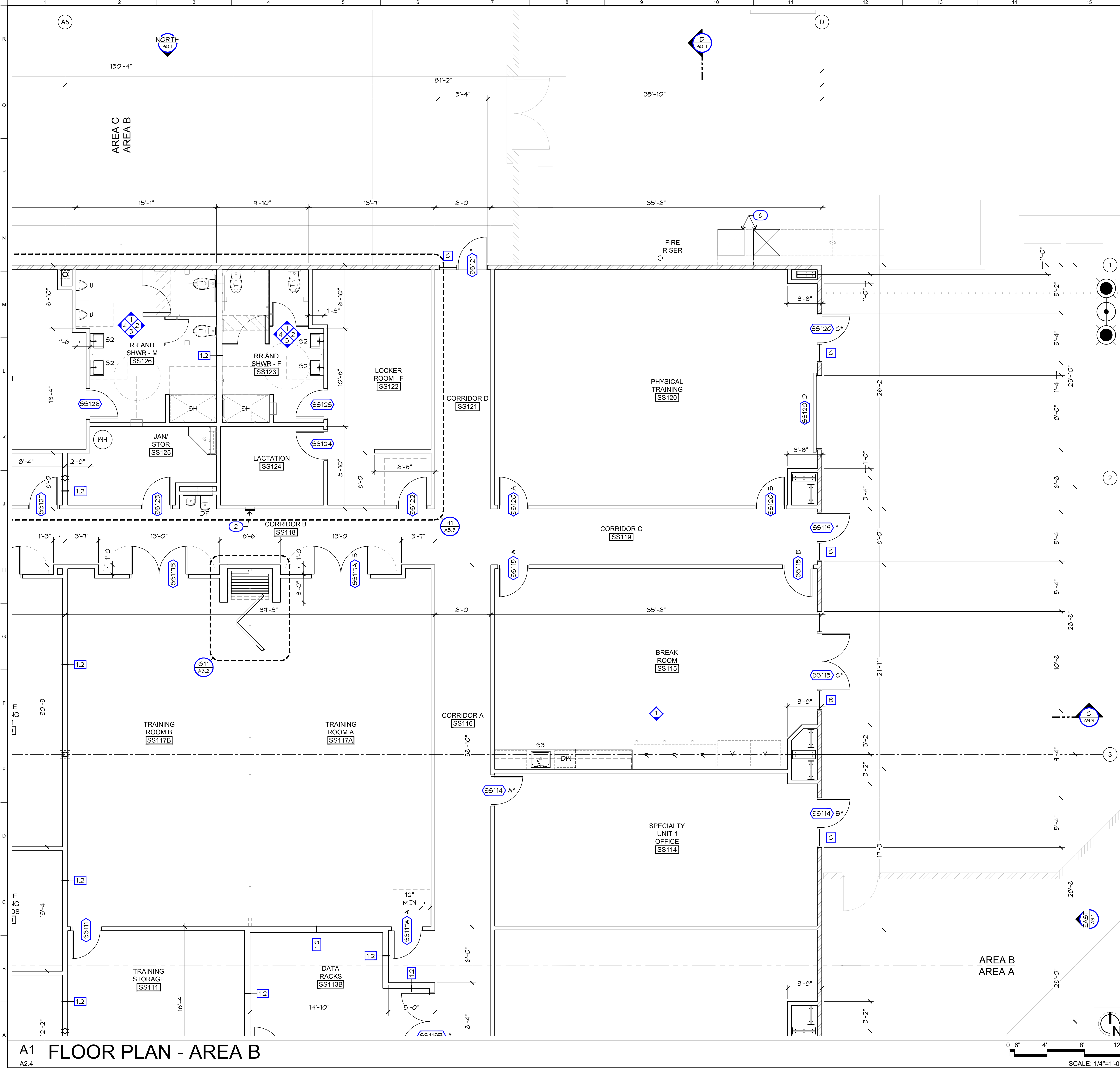
Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
A2.3

Drawn by: --- Plot date: 06.02.2020

A1 FLOOR PLAN - AREA A
 A2.3





WALL LEGEND

	EXTERIOR WALL (NR)
	1.1 INTERIOR WALL (NR) - 3 5/8" x 20 GA. METAL STUDS AT 24" O.C. MAX W/ 3-1/2" SOUND BATT INSULATION AND 5/8" GYP BD EA SIDE WHERE EXPOSED. EXTEND 6" MINIMUM ABOVE ADJACENT CEILING AND BRACE TO STRUCTURE.
	1.2 INTERIOR WALL (NR) - SAME AS [1.1] ABOVE EXCEPT USE 6" x 30 GA. METAL STUDS AT 24" O.C.

- ### SHEET NOTES
- SEE 'SYMBOLS LEGEND', SHEET A0.1
 - SEE 'ARCHITECTURAL NOTES', SHEET A0.2
 - SEE 'TYPICAL STUD FRAMING' DETAIL J5/A6.1

KEYNOTES LEGEND

NOTE: SOME KEYNOTES MAY NOT APPEAR ON THIS SHEET.

	BALLISTIC RATED TRANSACTION WINDOW
	FIRE EXTINGUISHER CABINET. SEE DETAIL E5/A6.1. SEE ALSO 'FINISH SPECIFICATIONS', SHEET A5.1 FOR CABINET STYLE AND FINISH.
	'EXIT' SIGN. SEE DETAIL A5/A4.2
	'EXIT ROUTE' SIGN. SEE DETAIL A5/A4.2
	VERTICAL EXPANSION JOINT
	HVAC DUCTS. SEE MECHANICAL. PAINT AS SPECIFIED ON EXTERIOR ELEVATIONS, SHEETS A3.1 AND A3.2
	INTERIOR STEEL COLUMN. EMBED BASE BELOW SLAB. SEE STRUCTURAL
	ROOF ACCESS LADDER. SEE DETAIL J5/A6.4

SYMBOLS LEGEND

	DOOR SYMBOL. SEE 'DOOR SCHEDULE', SHEET A4.1 * INDICATES SECURITY KEY CARD ACCESS
	WINDOW / FRAME SYMBOL. SEE DETAIL A10/A4.2

EQPM / FIXT LEGEND

NOTE: SOME ITEMS MAY NOT APPEAR ON THIS SHEET.

B	BENCH
DF	DRINKING FOUNTAIN. SEE PLUMBING
DW	DISHWASHER
L	LOCKER
R	REFRIGERATOR
S1	SINK 1. SEE PLUMBING
S2	SINK 2. SEE PLUMBING
S3	SINK 3. SEE PLUMBING
SH	SHOWER. SEE PLUMBING
T	TOILET. SEE PLUMBING
V	VENDING MACHINE
WH	WATER HEATER. SEE PLUMBING

KEY PLAN



Project:
 Sheriff Area 2 Sub-Station
 1125 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
 FILE NAME: 19003_A2-4_Floor_Plan_Area_B

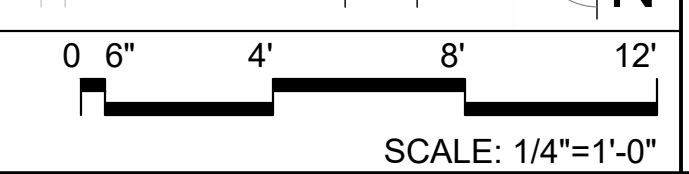
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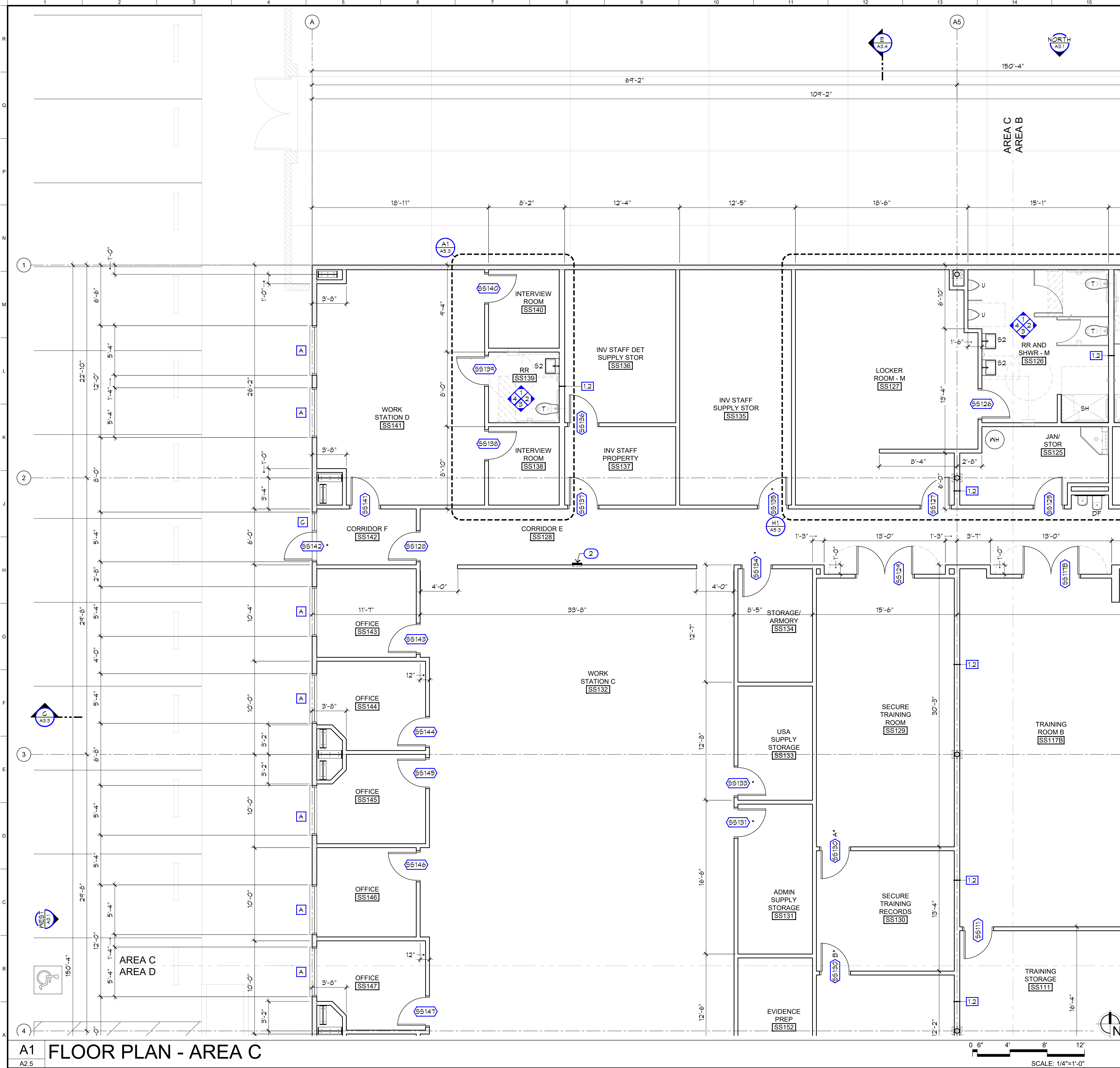
Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
A2.4

Drawn by: --- Plot date: 06.02.2020

A1 FLOOR PLAN - AREA B
 A2.4





WALL LEGEND

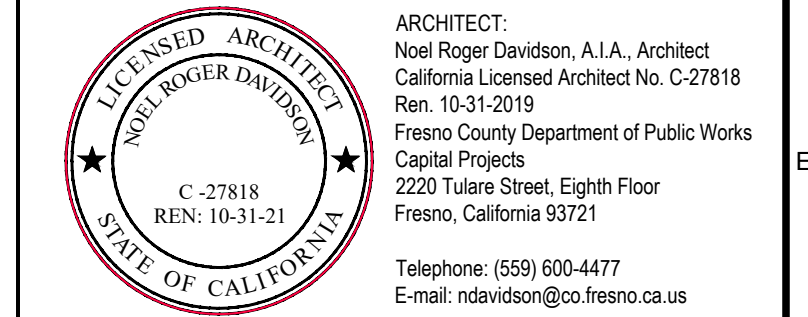
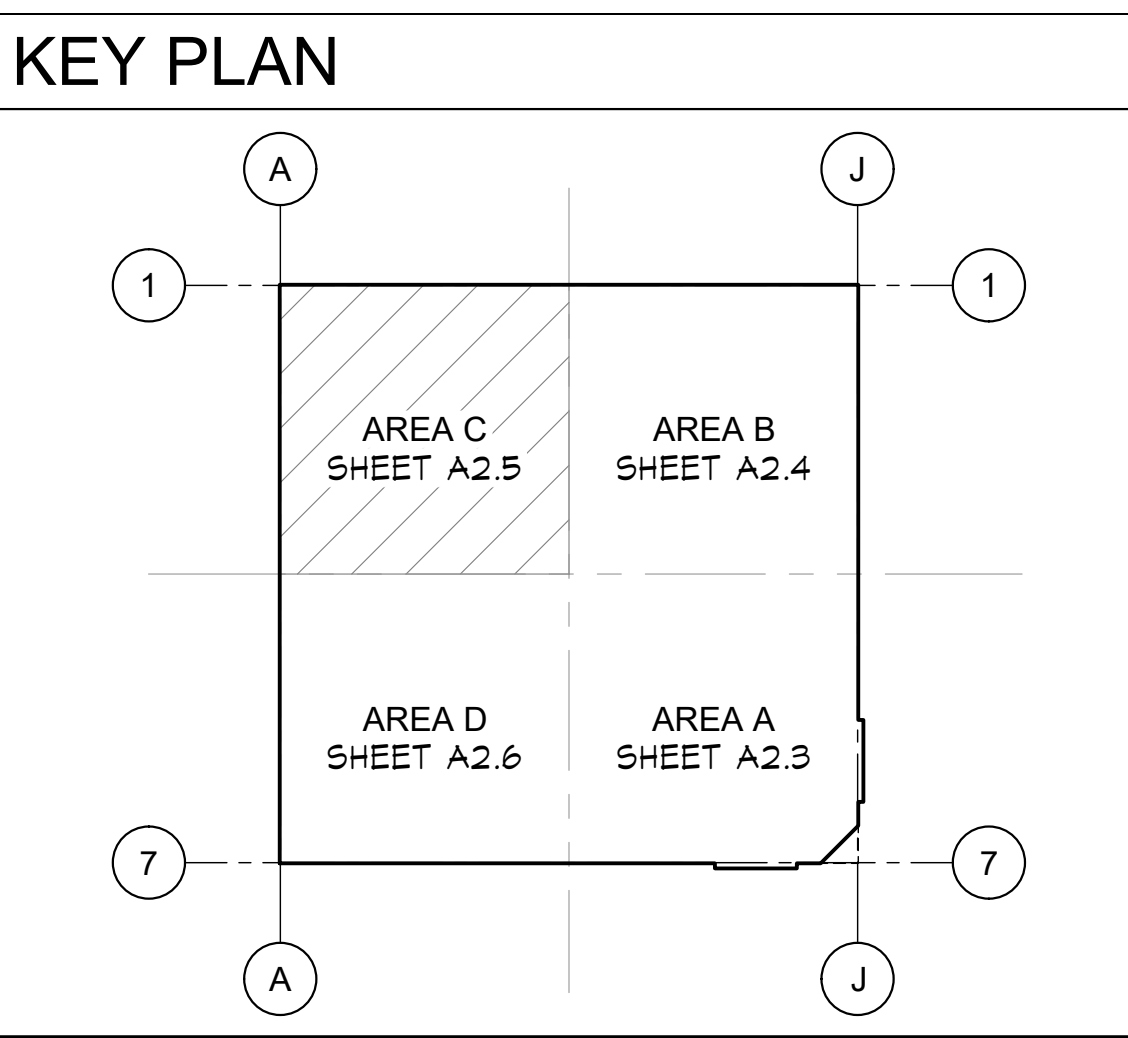
	EXTERIOR WALL (NR)
	1.1 INTERIOR WALL (NR) - 3 5/8" x 20 GA. METAL STUDS AT 24" O.C. MAX W/ 3-1/2" SOUND BATT INSULATION AND 5/8" GYP BD EA SIDE WHERE EXPOSED. EXTEND 6" MINIMUM ABOVE ADJACENT CEILING AND BRACE TO STRUCTURE.
	1.2 INTERIOR WALL (NR) - SAME AS 1.1 ABOVE EXCEPT USE 6" x 30 GA. METAL STUDS AT 24" O.C.

- ### SHEET NOTES
- SEE 'SYMBOLS LEGEND', SHEET A0.1
 - SEE 'ARCHITECTURAL NOTES', SHEET A0.2
 - SEE 'TYPICAL STUD FRAMING' DETAIL J5/A6.1

- ### KEYNOTES LEGEND
- NOTE: SOME KEYNOTES MAY NOT APPEAR ON THIS SHEET.
- BALLISTIC RATED TRANSACTION WINDOW
 - FIRE EXTINGUISHER CABINET. SEE DETAIL E5/A6.1. SEE ALSO 'FINISH SPECIFICATIONS', SHEET A5.1 FOR CABINET STYLE AND FINISH.
 - 'EXIT' SIGN. SEE DETAIL A5/A4.2
 - 'EXIT ROUTE' SIGN. SEE DETAIL A5/A4.2
 - VERTICAL EXPANSION JOINT
 - HVAC DUCTS. SEE MECHANICAL. PAINT AS SPECIFIED ON EXTERIOR ELEVATIONS, SHEETS A3.1 AND A3.2
 - INTERIOR STEEL COLUMN. EMBED BASE PLATE BELOW SLAB. SEE STRUCTURAL
 - ROOF ACCESS LADDER. SEE DETAIL J5/A6.4

- ### SYMBOLS LEGEND
- DOOR SYMBOL. SEE 'DOOR SCHEDULE', SHEET A4.1 * INDICATES SECURITY KEY CARD ACCESS
 - WINDOW / FRAME SYMBOL. SEE DETAIL A10/A4.2

- ### EQPM / FIXT LEGEND
- NOTE: SOME ITEMS MAY NOT APPEAR ON THIS SHEET.
- B BENCH
 - DF DRINKING FOUNTAIN. SEE PLUMBING
 - DW DISHWASHER
 - L LOCKER
 - R REFRIGERATOR
 - S1 SINK 1. SEE PLUMBING
 - S2 SINK 2. SEE PLUMBING
 - S3 SINK 3. SEE PLUMBING
 - SH SHOWER. SEE PLUMBING
 - T TOILET. SEE PLUMBING
 - V VENDING MACHINE
 - WH WATER HEATER. SEE PLUMBING



Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04--05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
 FILE NAME: 19003_A2-5_Floor_Plan_Area_C

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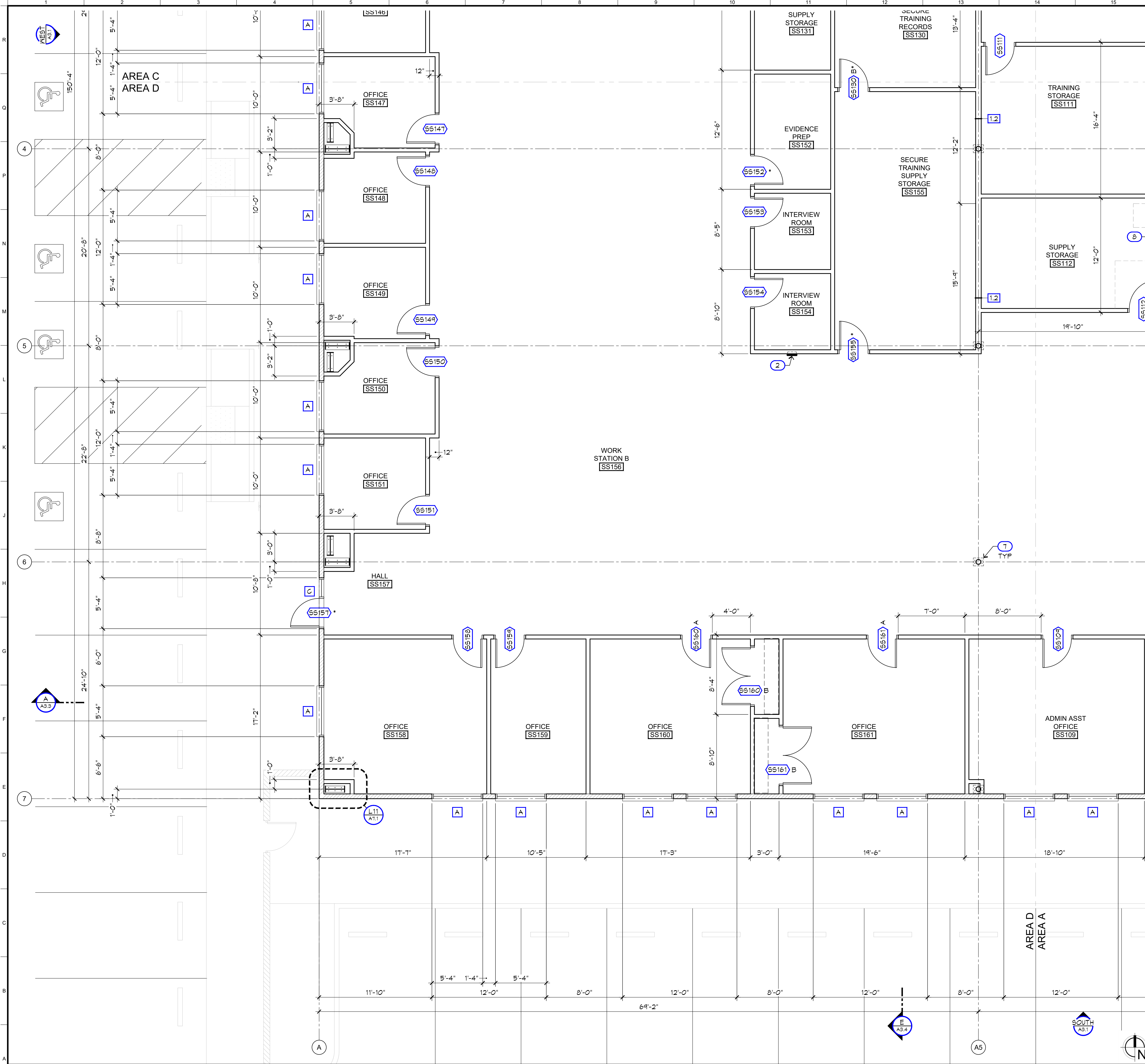
Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
A2.5

Drawn by: --- Plot date: 06.02.2020

A1 FLOOR PLAN - AREA C

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



WALL LEGEND

	EXTERIOR WALL (NR)
	1.1 INTERIOR WALL (NR) - 3 5/8" x 20 GA. METAL STUDS AT 24" O.C. MAX W/ 3-1/2" SOUND BATT INSULATION AND 5/8" GYP BD EA SIDE WHERE EXPOSED. EXTEND 6" MINIMUM ABOVE ADJACENT CEILING AND BRACE TO STRUCTURE.
	1.2 INTERIOR WALL (NR) - SAME AS 1.1 ABOVE EXCEPT USE 6" x 30 GA. METAL STUDS AT 24" O.C.

SYMBOLS LEGEND

	DOOR SYMBOL. SEE 'DOOR SCHEDULE', SHEET A4.1 * INDICATES SECURITY KEY CARD ACCESS
	WINDOW / FRAME SYMBOL. SEE DETAIL A10/A4.2

SHEET NOTES

- SEE 'SYMBOLS LEGEND', SHEET A0.1
- SEE 'ARCHITECTURAL NOTES', SHEET A0.2
- SEE 'TYPICAL STUD FRAMING' DETAIL J5/A6.1

KEYNOTES LEGEND

NOTE: SOME KEYNOTES MAY NOT APPEAR ON THIS SHEET.

- BALLISTIC RATED TRANSACTION WINDOW
- FIRE EXTINGUISHER CABINET. SEE DETAIL E5/A6.1. SEE ALSO 'FINISH SPECIFICATIONS', SHEET A5.1 FOR CABINET STYLE AND FINISH.
- 'EXIT' SIGN. SEE DETAIL A5/A4.2
- 'EXIT ROUTE' SIGN. SEE DETAIL A5/A4.2
- VERTICAL EXPANSION JOINT
- HVAC DUCTS. SEE MECHANICAL. PAINT AS SPECIFIED ON EXTERIOR ELEVATIONS, SHEETS A3.1 AND A3.2
- INTERIOR STEEL COLUMN. EMBED BASE PLATE BELOW SLAB. SEE STRUCTURAL
- ROOF ACCESS LADDER. SEE DETAIL J3/A6.4

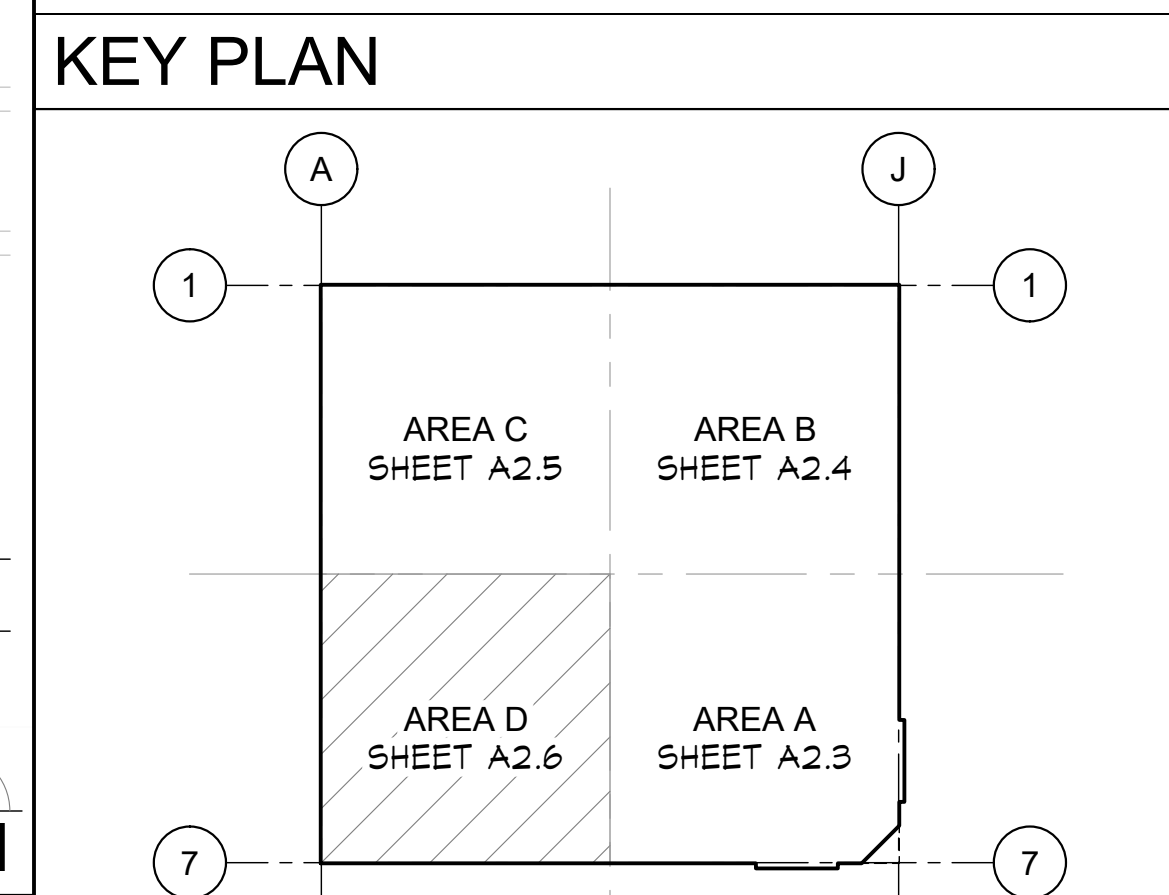
EQPM / FIXT LEGEND

NOTE: SOME ITEMS MAY NOT APPEAR ON THIS SHEET.

- B BENCH
- DF DRINKING FOUNTAIN. SEE PLUMBING
- DW DISHWASHER
- L LOCKER
- R REFRIGERATOR
- S1 SINK 1. SEE PLUMBING
- S2 SINK 2. SEE PLUMBING
- S3 SINK 3. SEE PLUMBING
- SH SHOWER. SEE PLUMBING
- T TOILET. SEE PLUMBING
- V VENDING MACHINE
- WH WATER HEATER. SEE PLUMBING



Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04--05, and --06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
 FILE NAME: 19003_A2-6_Floor_Plan_Area_D

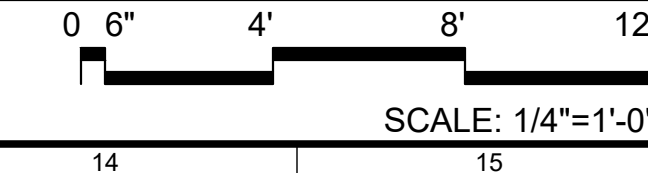


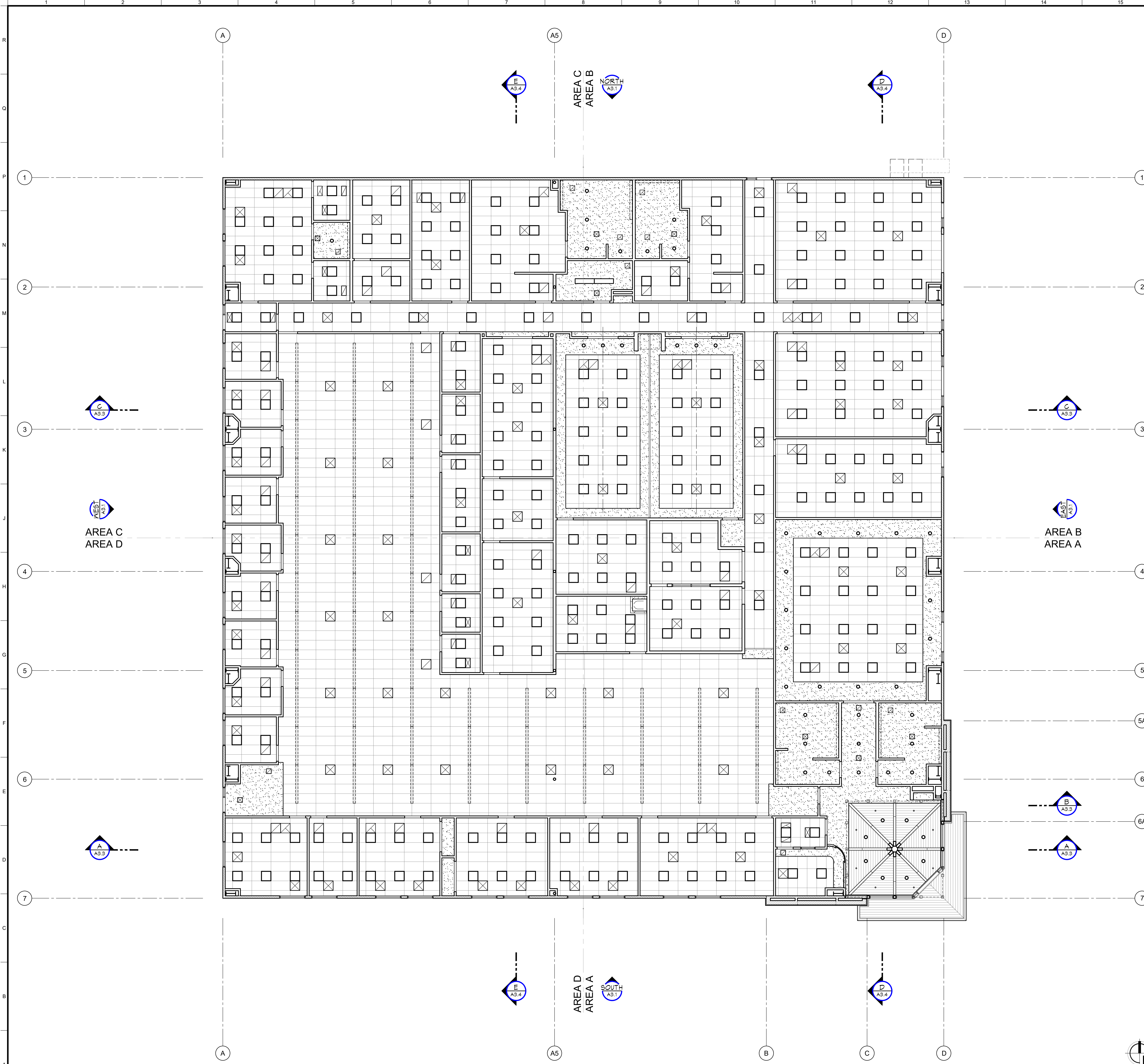
Sheet Content:
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Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
A2.6

A1 FLOOR PLAN - AREA D
 A2.6





WALL LEGEND

	EXTERIOR WALL (NR)
	1.1 INTERIOR WALL (NR) - 3 5/8" x 20 GA. METAL STUDS AT 24" O.C. MAX W/ 3-1/2" SOUND BATT INSULATION AND 5/8" GYP BD EA SIDE WHERE EXPOSED. EXTEND 6" MINIMUM ABOVE ADJACENT CEILING AND BRACE TO STRUCTURE.
	1.2 INTERIOR WALL (NR) - SAME AS 1.1 ABOVE EXCEPT USE 6" x 30 GA. METAL STUDS AT 24" O.C.

SHEET NOTES

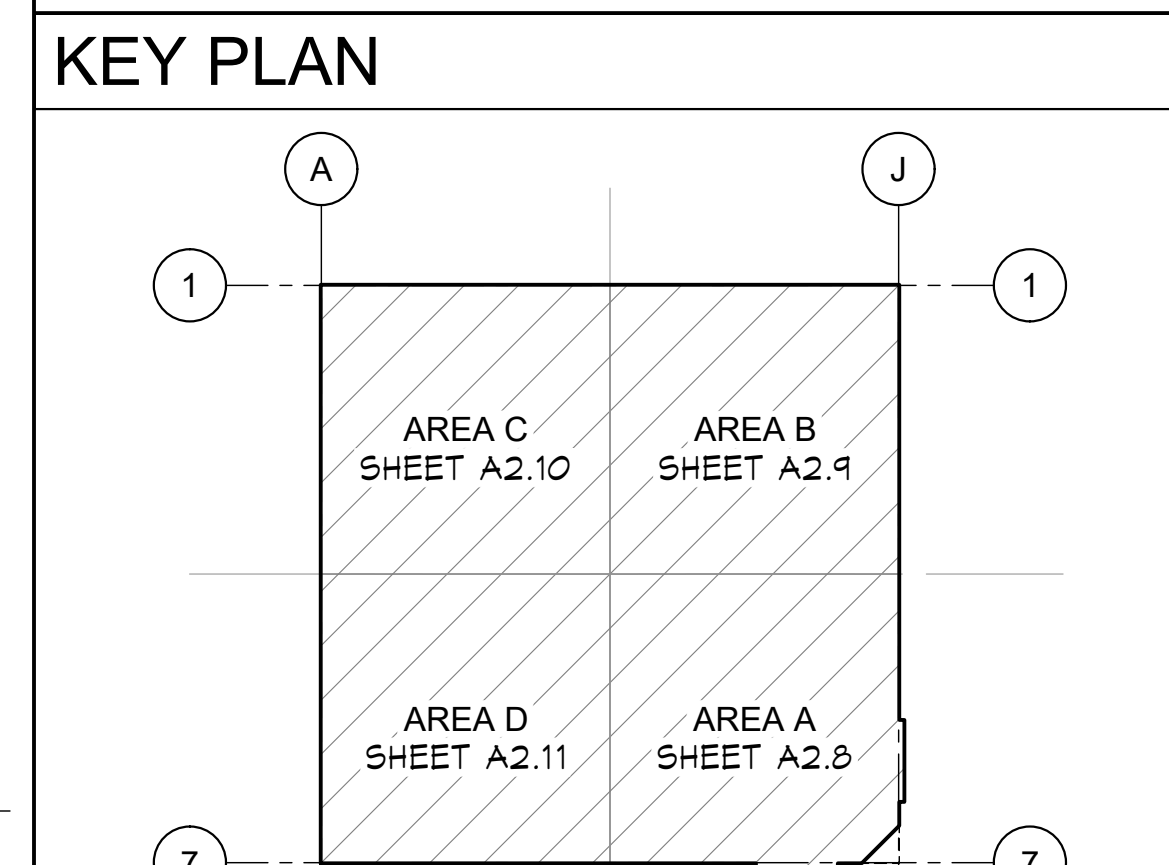
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CEILING LEGEND

	2X4 ACOUSTICAL CEILING TILE. SEE FINISH SCHEDULE, SHEET A5.1 AND DETAIL E5/A6.3
	PAINTED GYPSUM BOARD. SEE FINISH SCHEDULE, SHEET A5.1 AND DETAIL G17/A6.3
	PREFINISHED METAL LINER PANEL.
	2X2 RECESSED LIGHT FIXTURE. SEE ELECTRICAL
	1X4 SURFACE MOUNTED LIGHT FIXTURE. SEE ELECTRICAL
	RECESSED DOWNLIGHT. SEE ELECTRICAL
	SURFACE MOUNTED CEILING LIGHT. SEE ELECTRICAL
	SURFACE MOUNTED CEILING LIGHT. SEE ELECTRICAL
	WALL SCONCE W/ HEIGHT TO CENTER OF FIXTURE. SEE ELECTRICAL
	PENDANT LIGHT W/ HEIGHT TO BOTTOM OF FIXTURE. SEE ELECTRICAL
	EXIT LIGHT. SEE ELECTRICAL
	SUSPENDED DIRECT/INDIRECT LIGHT FIXTURE. SEE ELECTRICAL
	WALL MOUNTED LIGHT FIXTURE. SEE ELECTRICAL
	HVAC SUPPLY DIFFUSER. SEE MECHANICAL
	HVAC RETURN DIFFUSER. SEE MECHANICAL
	EXHAUST FAN. SEE MECHANICAL
	CEILING HEIGHT ABOVE FINISH FLOOR



Project:
 Sheriff Area 2 Sub-Station
 1120 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04-.05, and -.06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
 FILE NAME: 19003_A2-7_Ref_Ceiling_Plan



Sheet Content:
 REFL CEILING PLAN - OVERALL

Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
A2.7



WALL LEGEND

	EXTERIOR WALL (NR)
	1.1 INTERIOR WALL (NR) - 3 5/8" x 20 GA. METAL STUDS AT 24" O.C. MAX W/ 3-1/2" SOUND BATT INSULATION AND 5/8" GYP BD EA SIDE WHERE EXPOSED. EXTEND 6" MINIMUM ABOVE ADJACENT CEILING AND BRACE TO STRUCTURE.
	1.2 INTERIOR WALL (NR) - SAME AS 1.1 ABOVE EXCEPT USE 6" x 30 GA. METAL STUDS AT 24" O.C.

CEILING LEGEND

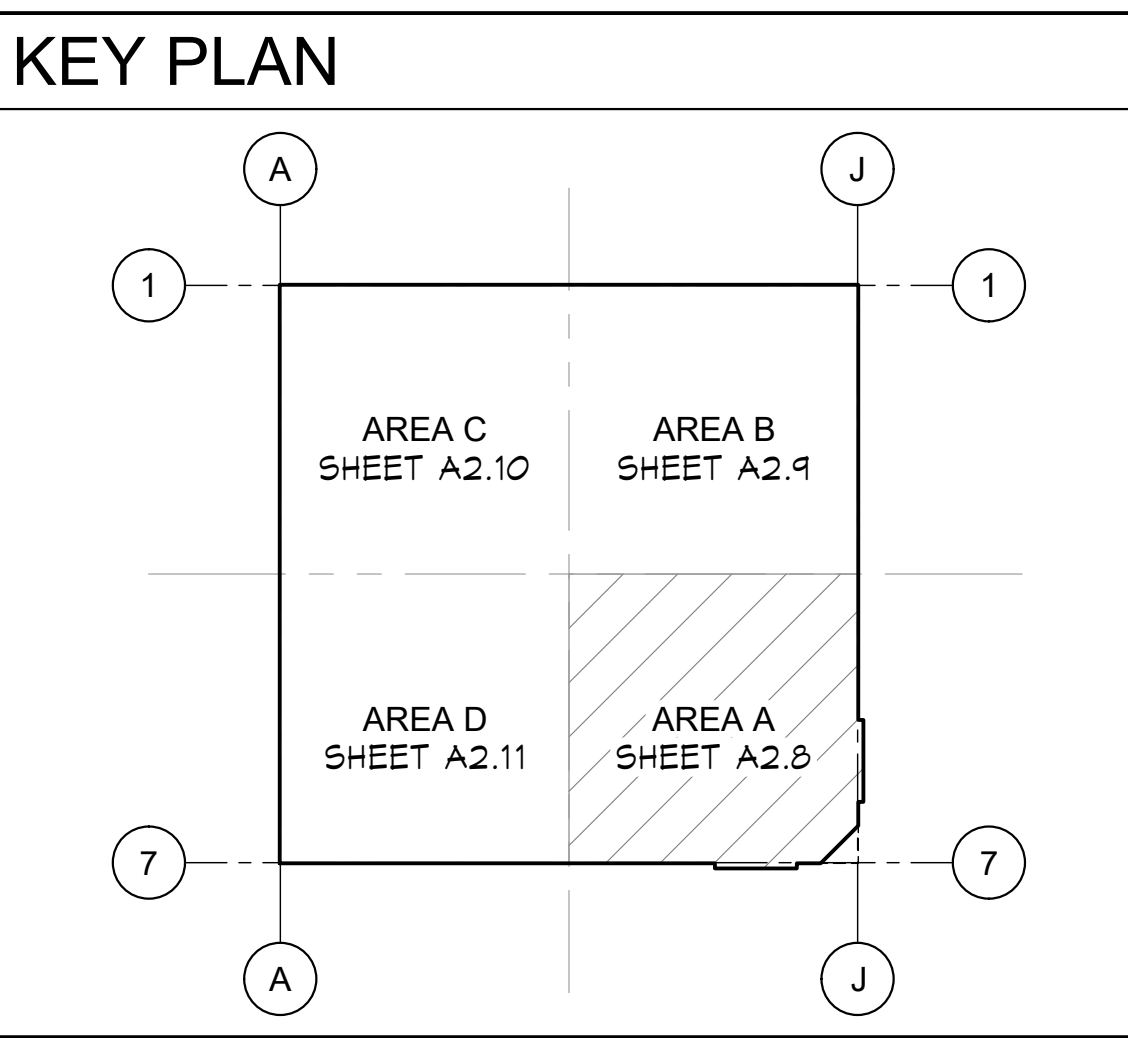
	2X4 ACOUSTICAL CEILING TILE. SEE FINISH SCHEDULE, SHEET A5.1 AND DETAIL E5/A6.3
	PAINTED GYPSUM BOARD. SEE FINISH SCHEDULE, SHEET A5.1 AND DETAIL G17/A6.3
	PREFINISHED METAL LINER PANEL.
	2X2 RECESSED LIGHT FIXTURE. SEE ELECTRICAL
	1X4 SURFACE MOUNTED LIGHT FIXTURE. SEE ELECTRICAL
	RECESSED DOWNLIGHT. SEE ELECTRICAL
	SURFACE MOUNTED CEILING LIGHT. SEE ELECTRICAL
	SURFACE MOUNTED CEILING LIGHT. SEE ELECTRICAL
	WALL SCONCE W/ HEIGHT TO CENTER OF FIXTURE. SEE ELECTRICAL
	PENDANT LIGHT W/ HEIGHT TO BOTTOM OF FIXTURE. SEE ELECTRICAL
	EXIT LIGHT. SEE ELECTRICAL
	SUSPENDED DIRECT/INDIRECT LIGHT FIXTURE. SEE ELECTRICAL
	WALL MOUNTED LIGHT FIXTURE. SEE ELECTRICAL
	HVAC SUPPLY DIFFUSER. SEE MECHANICAL
	HVAC RETURN DIFFUSER. SEE MECHANICAL
	EXHAUST FAN. SEE MECHANICAL
	CEILING HEIGHT ABOVE FINISH FLOOR

SHEET NOTES

1.

ARCHITECT:
Neil Roger Davidson, A.I.A., Architect
California Licensed Architect No. C-27818
Ren. 10-31-2019
Fresno County Department of Public Works
Capital Projects
2220 Tulare Street, Eighth Floor
Fresno, California 93721
Telephone: (559) 600-4477
E-mail: ndavidson@co.fresno.ca.us

Project:
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
APN: 310-133-04-05, and -06
ISSUE DATE: 06.02.2020
PROJECT NO: 19003 / 19003
FILE NAME: 19003_A2-8_Ref_Clg_Plan_Area_A



Sheet Content:
REFL CEILING PLAN - AREA A

Fresno County Department of Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
A2.8

Drawn by: ---- Plot date: 06.02.2020



WALL LEGEND

	EXTERIOR WALL (NR)
	1.1 INTERIOR WALL (NR) - 3 5/8" x 20 GA. METAL STUDS AT 24" O.C. MAX 1/2" SOUND BATT INSULATION AND 5/8" GYP BD EA SIDE WHERE EXPOSED. EXTEND 6" MINIMUM ABOVE ADJACENT CEILING AND BRACE TO STRUCTURE.
	1.2 INTERIOR WALL (NR) - SAME AS 1.1 ABOVE EXCEPT USE 6" x 30 GA. METAL STUDS AT 24" O.C.

SHEET NOTES

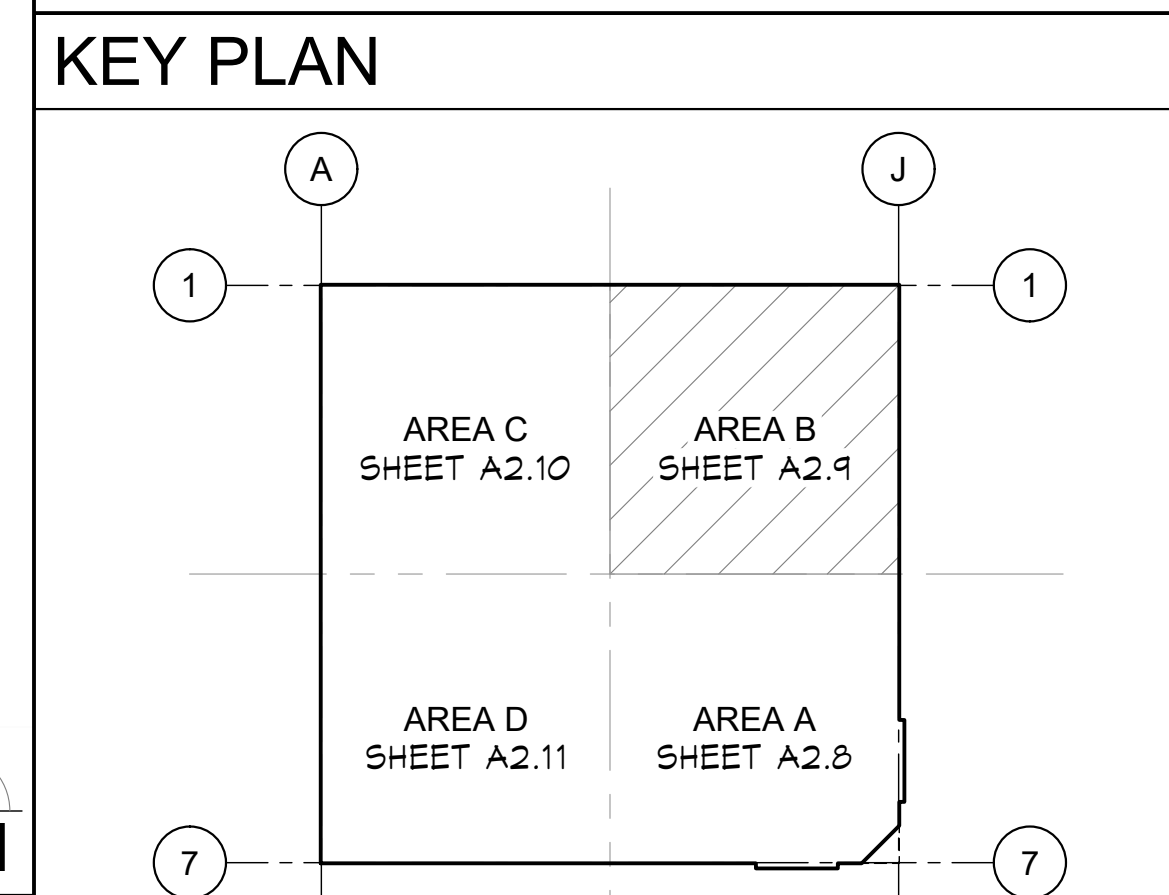
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CEILING LEGEND

	2X4 ACOUSTICAL CEILING TILE. SEE 'FINISH SCHEDULE', SHEET A5.1 AND DETAIL E5/A6.3
	PAINTED GYPSUM BOARD. SEE 'FINISH SCHEDULE', SHEET A5.1 AND DETAIL G17/A6.3
	PREFINISHED METAL LINER PANEL.
	2X2 RECESSED LIGHT FIXTURE. SEE ELECTRICAL
	1X4 SURFACE MOUNTED LIGHT FIXTURE. SEE ELECTRICAL
	RECESSED DOWNLIGHT. SEE ELECTRICAL
	SURFACE MOUNTED CEILING LIGHT. SEE ELECTRICAL
	SURFACE MOUNTED CEILING LIGHT. SEE ELECTRICAL
	X'-X" WALL SCONCE W/ HEIGHT TO CENTER OF FIXTURE. SEE ELECTRICAL
	X'-X" PENDANT LIGHT W/ HEIGHT TO BOTTOM OF FIXTURE. SEE ELECTRICAL
	EXIT LIGHT. SEE ELECTRICAL
	SUSPENDED DIRECT/INDIRECT LIGHT FIXTURE. SEE ELECTRICAL
	WALL MOUNTED LIGHT FIXTURE. SEE ELECTRICAL
	HVAC SUPPLY DIFFUSER. SEE MECHANICAL
	HVAC RETURN DIFFUSER. SEE MECHANICAL
	EXHAUST FAN. SEE MECHANICAL
	X'-X" CEILING HEIGHT ABOVE FINISH FLOOR



Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
 FILE NAME: 19003_A2-9_Ref_Ceiling_Plan_Area_B



Sheet Content:
 REFL CEILING PLAN - AREA B

Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
A2.9

A1 REFLECTED CEILING PLAN - AREA B

0 6" 4" 8" 12"
 SCALE: 1/4"=1'-0"



WALL LEGEND

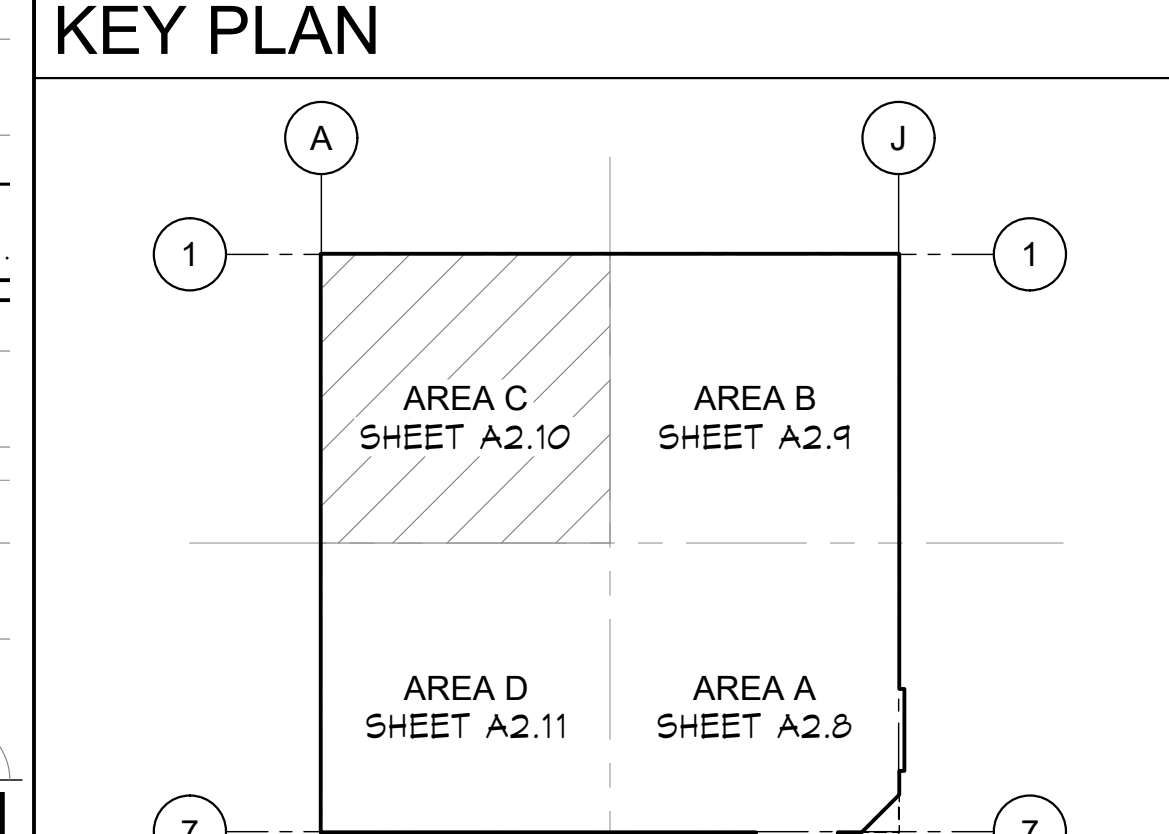
	EXTERIOR WALL (NR)
	1.1 INTERIOR WALL (NR) - 3 5/8" x 20 GA. METAL STUDS AT 24" O.C. MAX W/ 3-1/2" SOUND BATT INSULATION AND 5/8" GYP BD EA SIDE WHERE EXPOSED. EXTEND 6" MINIMUM ABOVE ADJACENT CEILING AND BRACE TO STRUCTURE.
	1.2 INTERIOR WALL (NR) - SAME AS [1.1] ABOVE EXCEPT USE 6" x 30 GA. METAL STUDS AT 24" O.C.

SHEET NOTES

1. .

CEILING LEGEND

	2X4 ACOUSTICAL CEILING TILE. SEE 'FINISH SCHEDULE', SHEET A5.1 AND DETAIL E5/A6.3
	PAINTED GYPSUM BOARD. SEE 'FINISH SCHEDULE', SHEET A5.1 AND DETAIL G17/A6.3
	PREFINISHED METAL LINER PANEL.
	2X2 RECESSED LIGHT FIXTURE. SEE ELECTRICAL
	1X4 SURFACE MOUNTED LIGHT FIXTURE. SEE ELECTRICAL
	RECESSED DOWNLIGHT. SEE ELECTRICAL
	SURFACE MOUNTED CEILING LIGHT. SEE ELECTRICAL
	SURFACE MOUNTED CEILING LIGHT. SEE ELECTRICAL
	WALL SCONCE W/ HEIGHT TO CENTER OF FIXTURE. SEE ELECTRICAL
	PENDANT LIGHT W/ HEIGHT TO BOTTOM OF FIXTURE. SEE ELECTRICAL
	EXIT LIGHT. SEE ELECTRICAL
	SUSPENDED DIRECT/INDIRECT LIGHT FIXTURE. SEE ELECTRICAL
	WALL MOUNTED LIGHT FIXTURE. SEE ELECTRICAL
	HVAC SUPPLY DIFFUSER. SEE MECHANICAL
	HVAC RETURN DIFFUSER. SEE MECHANICAL
	EXHAUST FAN. SEE MECHANICAL
	CEILING HEIGHT ABOVE FINISH FLOOR



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Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 06.02.2020
PROJECT NO: 19003 / 19003
FILE NAME: 19003_A2-10_Refl_Cing_Plan_Area_C

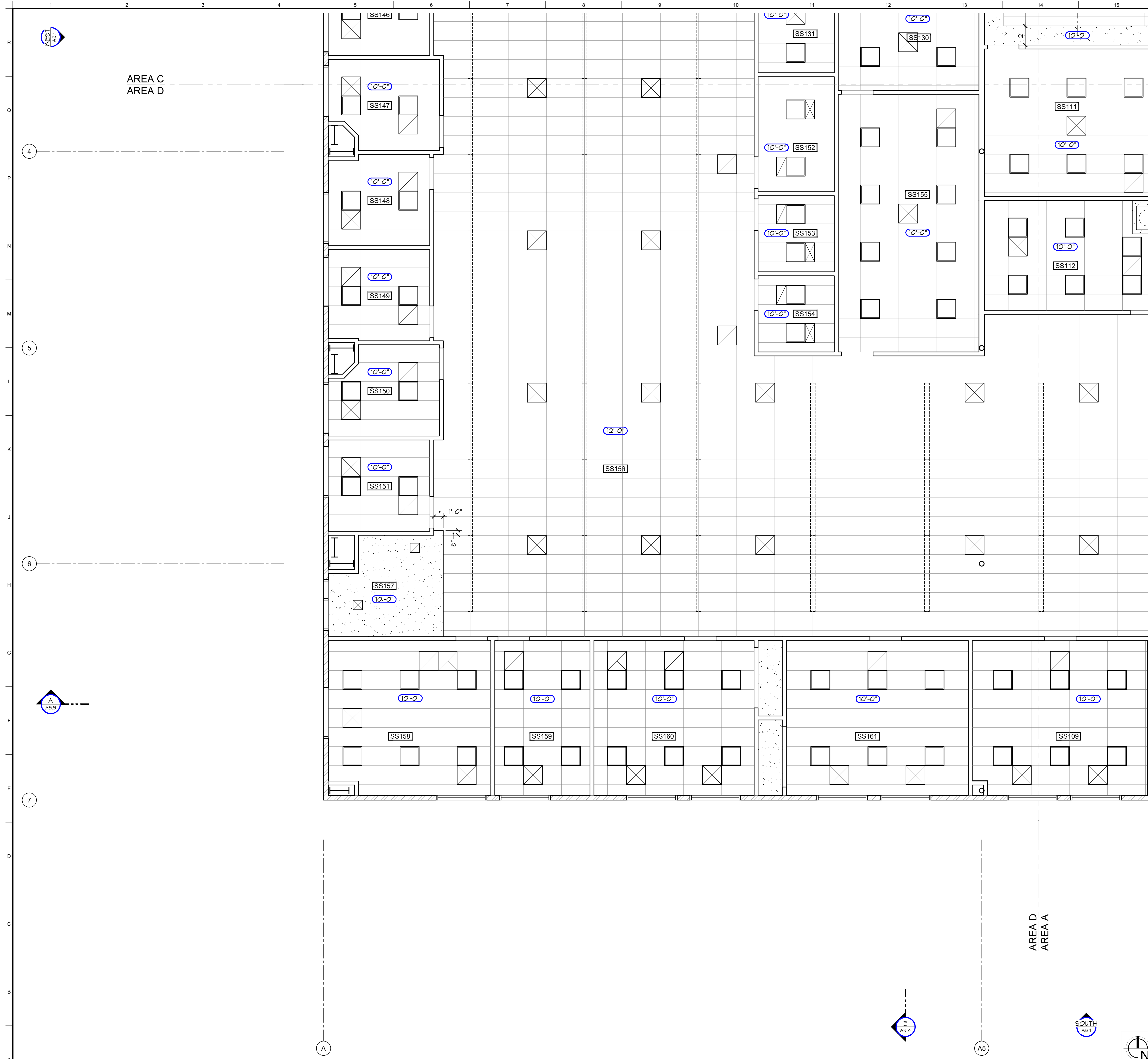
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REFL CEILING PLAN - AREA C

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Fresno, California 93721

Sheet No.
A2.10

A1 REFLECTED CEILING PLAN - AREA C

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



WALL LEGEND

	EXTERIOR WALL (NR)
	1.1 INTERIOR WALL (NR) - 3 5/8" x 20 GA. METAL STUDS AT 24" O.C. MAX W/ 3-1/2" SOUND BATT INSULATION AND 5/8" GYP BD EA SIDE WHERE EXPOSED. EXTEND 6" MINIMUM ABOVE ADJACENT CEILING AND BRACE TO STRUCTURE.
	1.2 INTERIOR WALL (NR) - SAME AS [1.1] ABOVE EXCEPT USE 6" x 30 GA. METAL STUDS AT 24" O.C.

CEILING LEGEND

	2X4 ACOUSTICAL CEILING TILE. SEE 'FINISH SCHEDULE', SHEET A5.1 AND DETAIL E5/A6.3
	PAINTED GYPSUM BOARD. SEE 'FINISH SCHEDULE', SHEET A5.1 AND DETAIL G17/A6.3
	PREFINISHED METAL LINER PANEL.
	2X2 RECESSED LIGHT FIXTURE. SEE ELECTRICAL
	1X4 SURFACE MOUNTED LIGHT FIXTURE. SEE ELECTRICAL
	RECESSED DOWNLIGHT. SEE ELECTRICAL
	SURFACE MOUNTED CEILING LIGHT. SEE ELECTRICAL
	SURFACE MOUNTED CEILING LIGHT. SEE ELECTRICAL
	WALL SCONCE W/ HEIGHT TO CENTER OF FIXTURE. SEE ELECTRICAL
	PENDANT LIGHT W/ HEIGHT TO BOTTOM OF FIXTURE. SEE ELECTRICAL
	EXIT LIGHT. SEE ELECTRICAL
	SUSPENDED DIRECT/INDIRECT LIGHT FIXTURE. SEE ELECTRICAL
	WALL MOUNTED LIGHT FIXTURE. SEE ELECTRICAL
	HVAC SUPPLY DIFFUSER. SEE MECHANICAL
	HVAC RETURN DIFFUSER. SEE MECHANICAL
	EXHAUST FAN. SEE MECHANICAL
	CEILING HEIGHT ABOVE FINISH FLOOR

SHEET NOTES

1.

KEY PLAN

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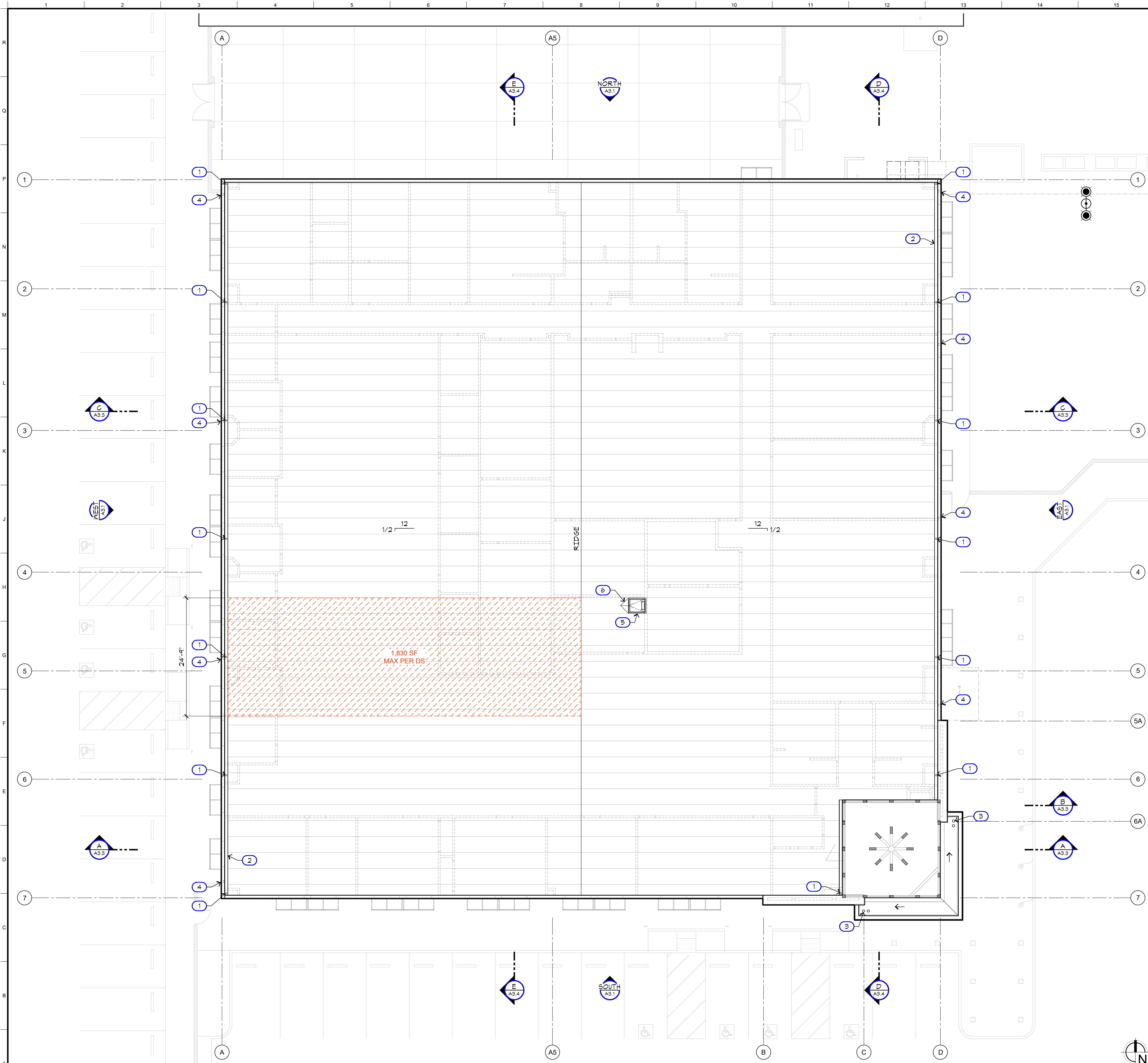
Project:
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
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ISSUE DATE: 06.02.2020
PROJECT NO: 19003 / 19003
FILE NAME: 19003_A2-11_Refl_Cing_Plan_Area_D

Sheet Content:
REFL CEILING PLAN - AREA D

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Fresno, California 93721

Sheet No.
A2.11

Drawn by: ---- Plot date: 06.02.2020



ROOF DRAINAGE CALCS

Rainfall Intensity (in/hr): 3.9
Based on rainfall averages in Sacramento, CALIFORNIA (100 years)

Roof Rainfall Design Area (ft²): 1,830.00
* Area of Largest Roof Serving a Single Gutter System
 Design Area manually entered by user

Gutter in Lineal Ft: 30
* Length at Largest Roof Serving a Single Gutter System

Gutter Length Serving Single DS (ft.): 30
**Assumption: Downspouts are evenly spaced
 ***Maximum gutter length to be served by a downspout is 50ft per SMACNA ASMM

M (depth to width ratio): 0.75

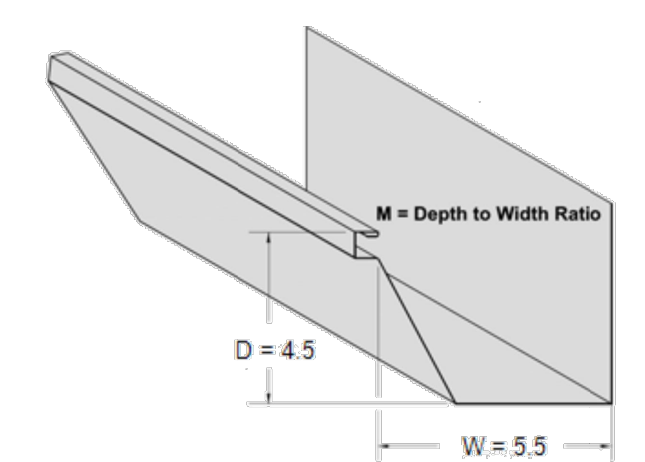
Min. Gutter Width (in.): 5.5 [Rectangular]

Min. Gutter Depth (in.): 4.5

of Downspouts: 1

Min. Area per DS (in²): 5.90
**SM Table 1-3 (in page 1-4 of SMACNA ASMM)

Min. DS Size (in.): 3 [Plain Round]

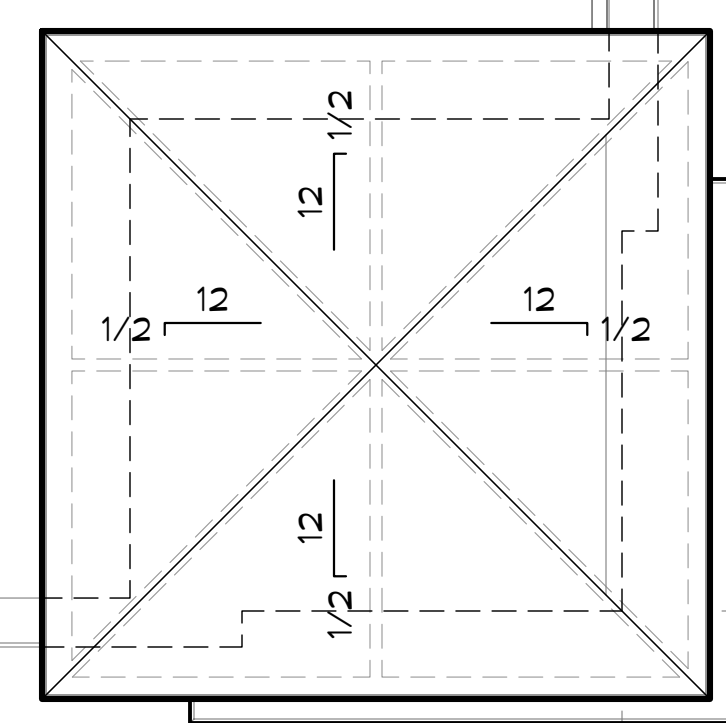


Calculations are derived using the 7th Edition of SMACNA's Architectural Sheet Metal Manual

KEYNOTES LEGEND

- 1 3" PLAIN ROUND DOWNSPOUT, TYPICAL OF 14
- 2 6" WIDE X 5" DEEP RECTANGULAR GUTTER, TYPICAL.
- 3 ROOF DRAIN W/ EMERGENCY OVERFLOW
- 4 4" ROUND OVERFLOW SCUPPER, TYPICAL OF 8
- 5 ROOF HATCH. SEE DETAIL A5/A7.3
- 6 CRICKET

All roof drains will be collected in the attic and routed to storm drain piping in the west parking lot. See PLUMBING and CIVIL.



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 1120 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
 FILE NAME: 19003_A2-12_Roof_Plan

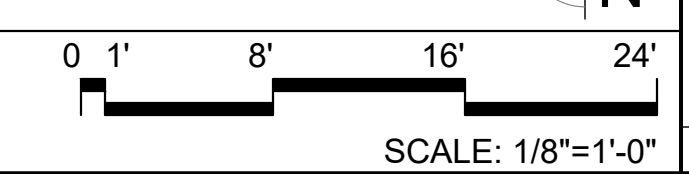
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 ROOF PLAN

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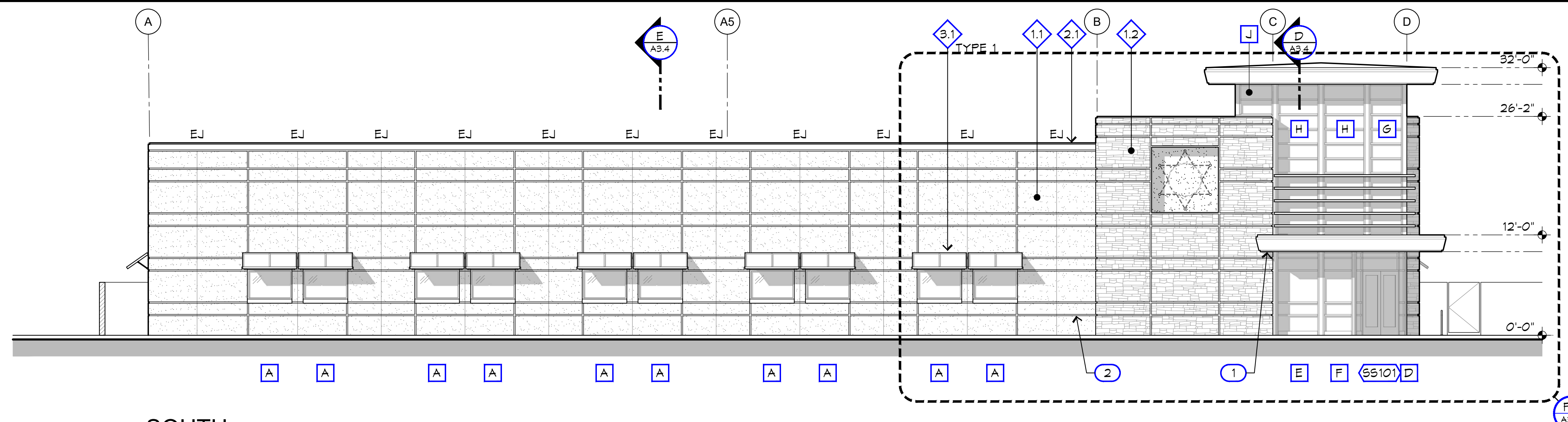
Sheet No.
A2.12

A1 ROOF PLAN

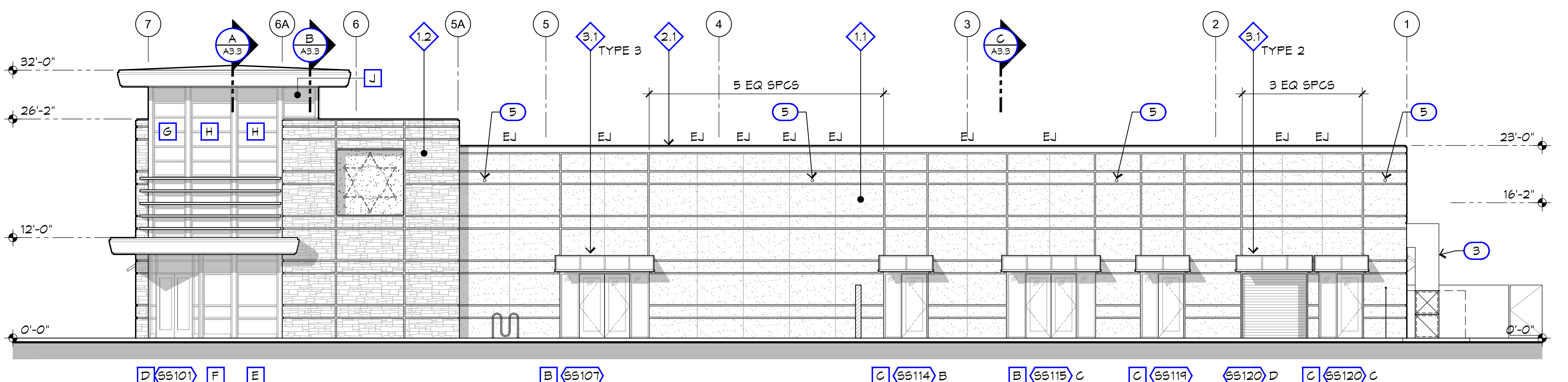
A16 UPPER ROOF PLAN



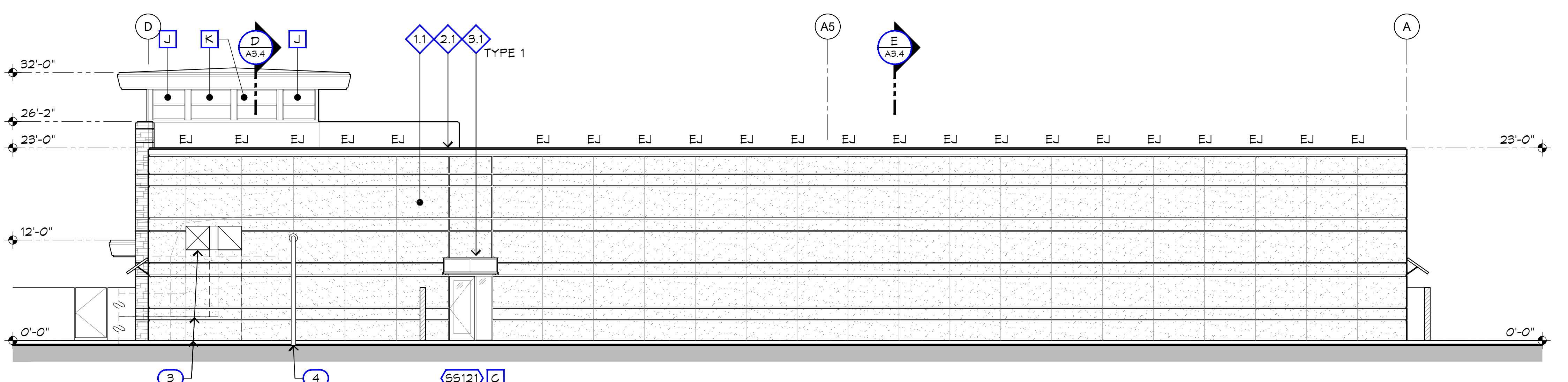
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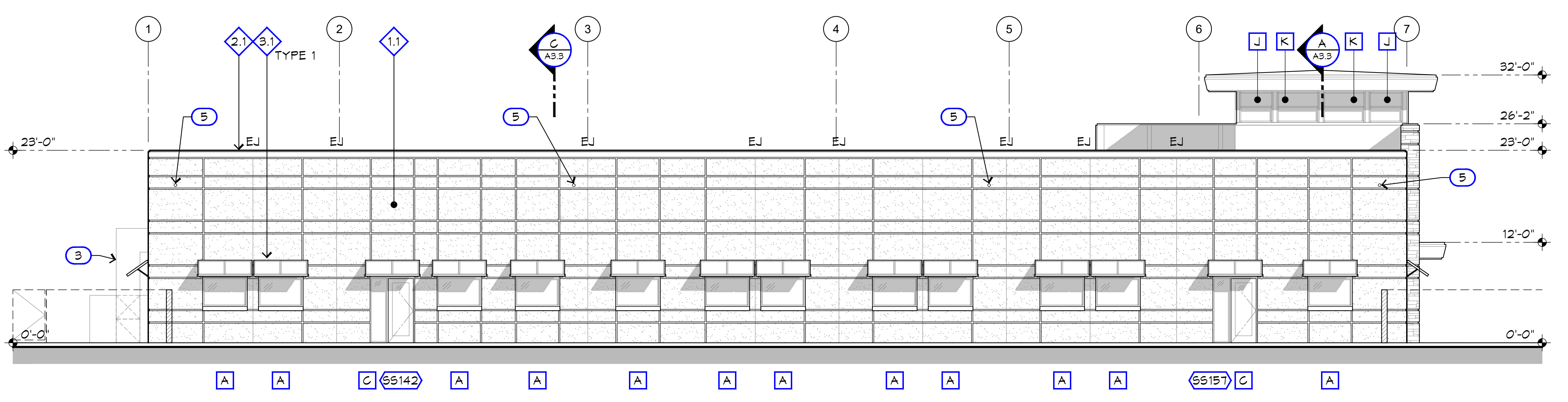
SOUTH



EAST



NORTH



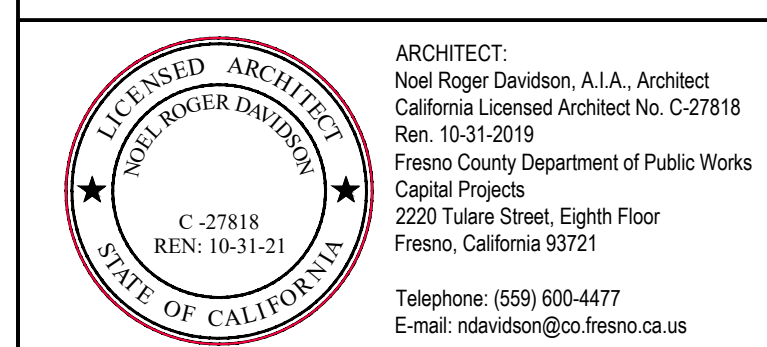
WEST

EXTERIOR FINISH SCHEDULE

MARK	DESCRIPTION
1	STUCCO
1.2	MASONRY VENEER
2.1	TRIM, METAL
3.1	ALUMINUM SUNSHADE, TYPE AS INDICATED. SEE DETAIL A1/A1.1

KEYNOTES LEGEND

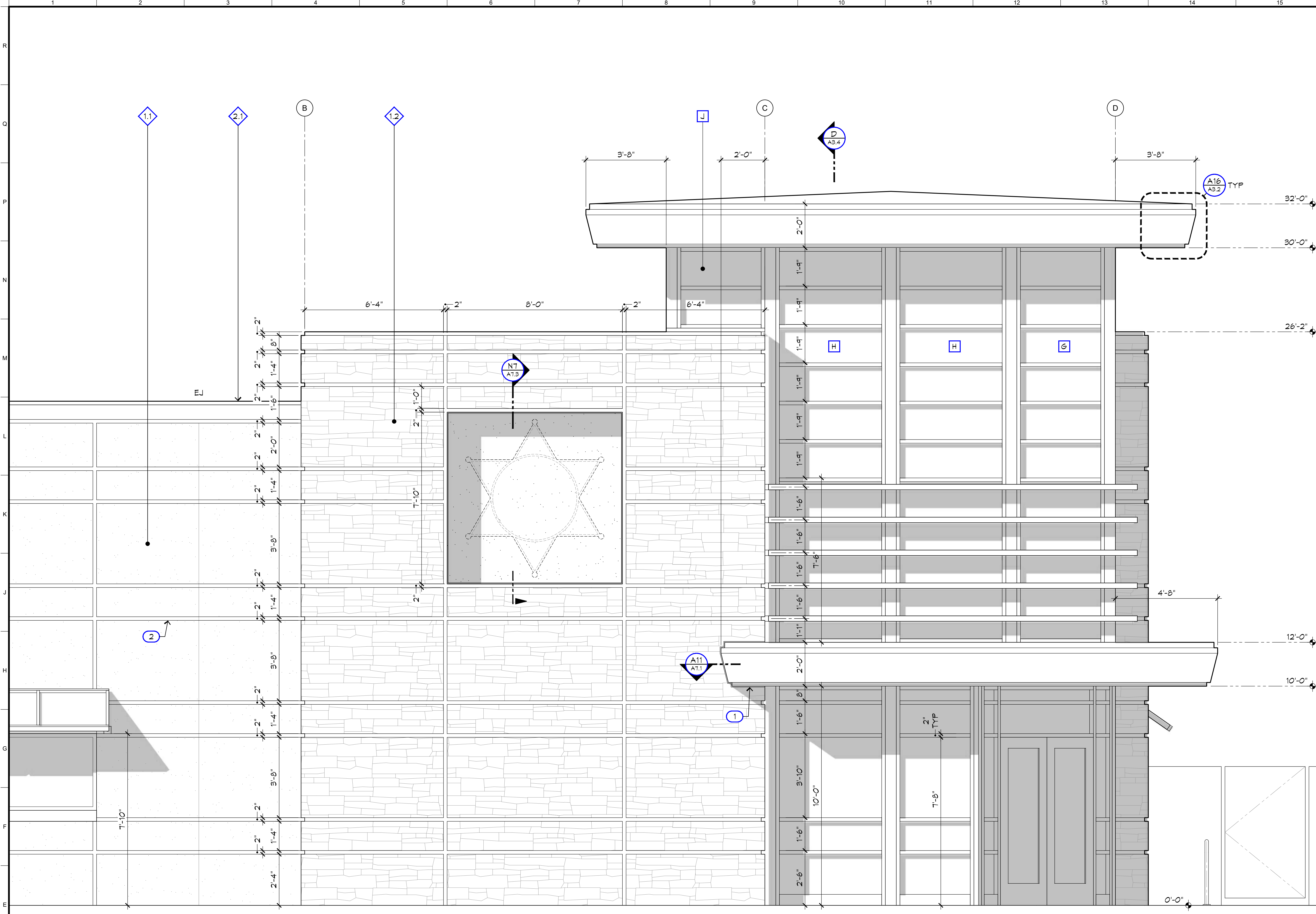
- NOTE: SOME KEYNOTES MAY NOT APPEAR ON THIS SHEET.
- SCRIBE STONE VENEER AROUND METAL FASCIA. 1" MAXIMUM JOINT. SEE DETAIL A11/A1.1
 - ALL JOINTS IN STUCCO SHALL BE 2" ALUMINUM REVEAL UNLESS NOTED AS 'EJ' (EXPANSION JOINT).
 - HVAC DUCTS. SEE MECHANICAL. PAINT TO MATCH EXTERIOR FINISH SCHEDULE, ITEM 2.1.
 - FIRE RISER
 - OVERFLOW SCUPPER AT 18'-6" TO BOTTOM OF SCUPPER. TYPICAL OF 8. SEE DETAIL XX/AX.X



Project:
 Sheriff Area 2 Sub-Station
 1128 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 1900293 / 190003
 FILE NAME: 19003_A3-1_Exr_Elev

Sheet Content:
 EXTERIOR ELEVATIONS



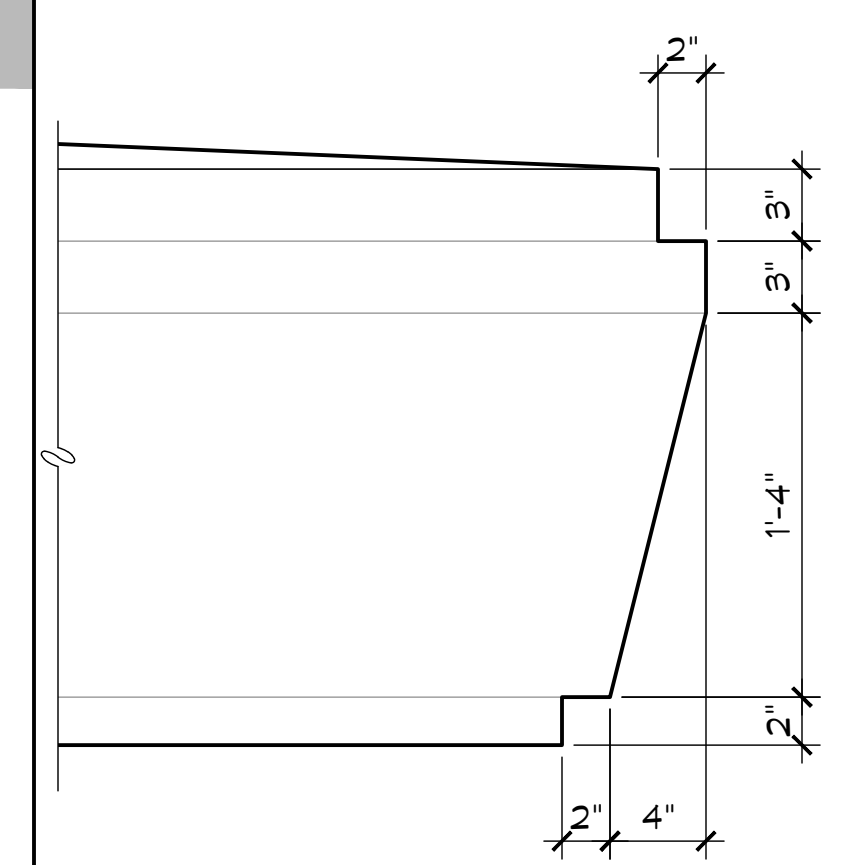


EXTERIOR FINISH SCHEDULE

MARK	DESCRIPTION
1.1	STUCCO
1.2	MASONRY VENEER
2.1	TRIM, METAL
3.1	ALUMINUM SUNSHADE, TYPE AS INDICATED. SEE DETAIL A1/A1.1

KEYNOTES LEGEND

- NOTE: SOME KEYNOTES MAY NOT APPEAR ON THIS SHEET.
- 1 SCRIBE STONE VENEER AROUND METAL FASCIA. 1" MAXIMUM JOINT. SEE DETAIL A11/A1.1
 - 2 ALL JOINTS IN STUCCO SHALL BE 2" ALUMINUM REVEAL UNLESS NOTED AS 'EJ' (EXPANSION JOINT).
 - 3 HVAC DUCTS. SEE MECHANICAL. PAINT TO MATCH EXTERIOR FINISH SCHEDULE, ITEM 2.1.
 - 4 FIRE RISER
 - 5 OVERFLOW SCUPPER AT 18'-8" TO BOTTOM OF SCUPPER. TYPICAL OF 8. SEE DETAIL XX/AX.X



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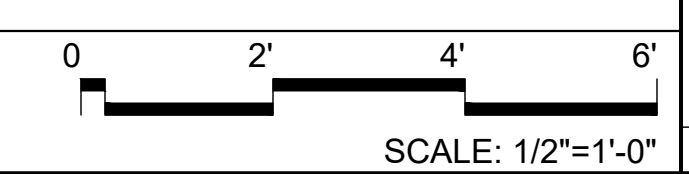
Project:
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 06.02.2020
PROJECT NO: 190033 / 190003
FILE NAME: 190033_A3-2_Ext_Elev

Sheet Content:
EXTERIOR ELEVATIONS

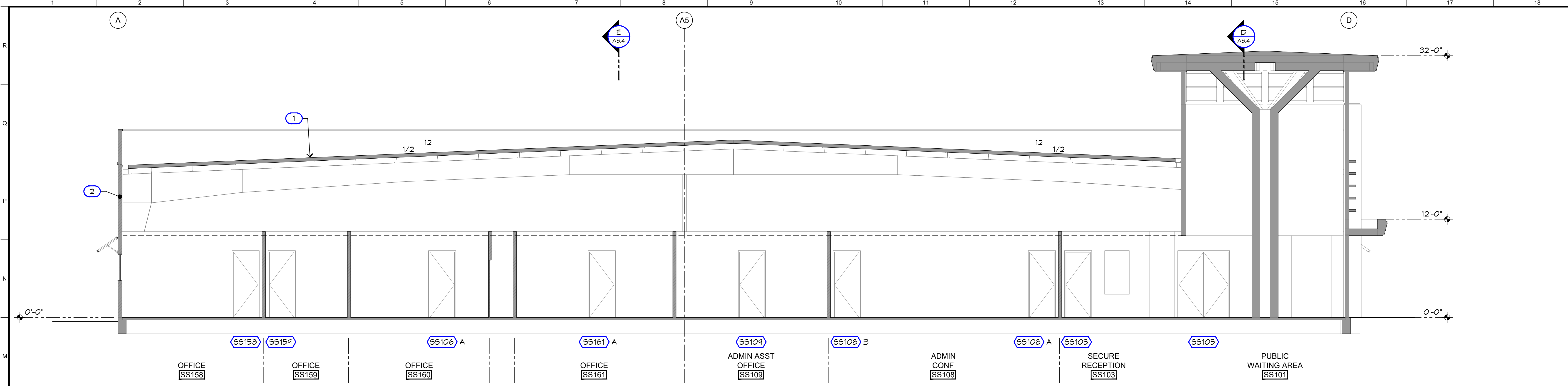
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Sheet No.
A3.2

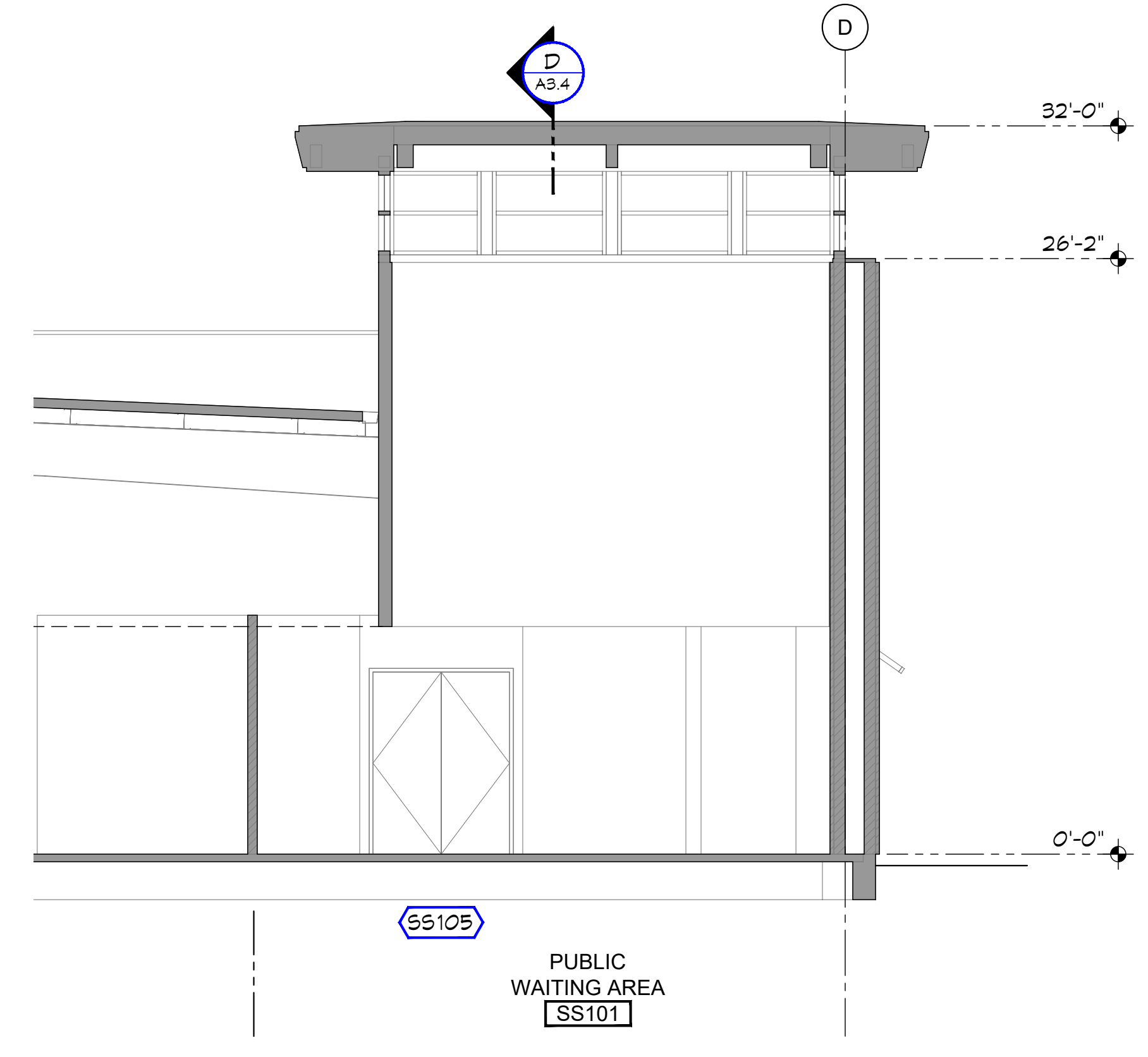
A1 ENLARGED EXTERIOR ELEVATION



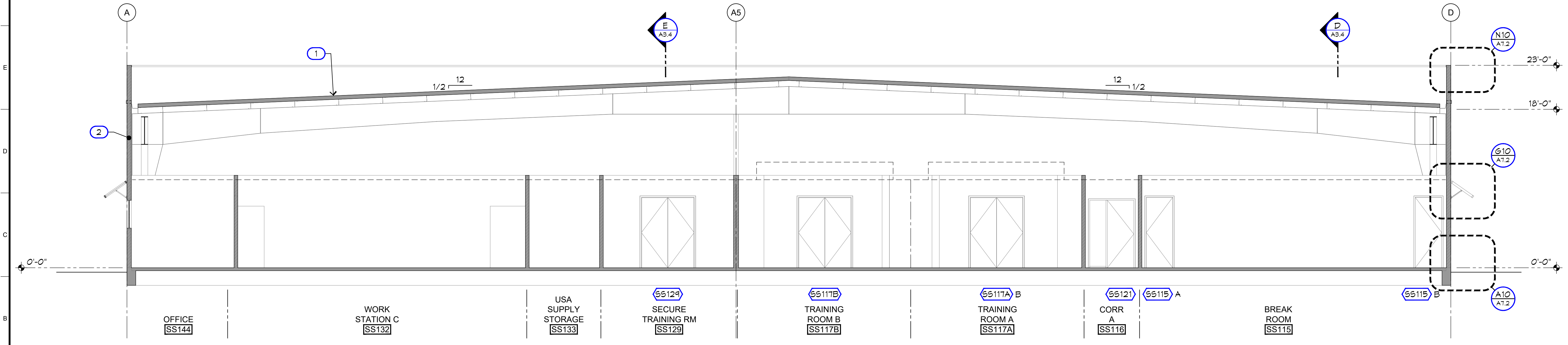
A16 ELEVATION
A3.2 DETAIL AT FASCIA
SCALE: 1-1/2"=1'-0"



SECTION A



SECTION B



SECTION C

KEYNOTES LEGEND
 NOTE: SOME KEYNOTES MAY NOT APPEAR ON THIS SHEET.
 1 5" THICK R-42 PREFINISHED INSULATED MECHANICALLY SEALED 26 GA METAL ROOF PANELS W/ CONCEALED FASTENERS
 2 R-19 WALL INSULATION

REGISTERED ARCHITECT
 ARCHITECT: Neil Roger Davidson, A.I.A., Architect
 California Licensed Architect No. C-27818
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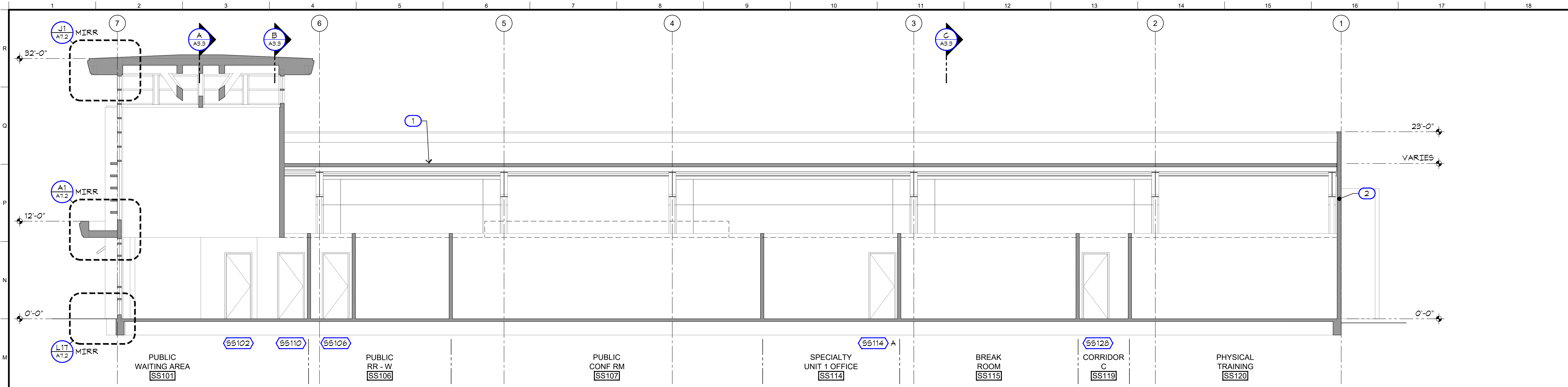
Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 190033 / 190003
 FILE NAME: 190033_A3-3_Bldg_Sect

Sheet Content:
 BUILDING SECTIONS

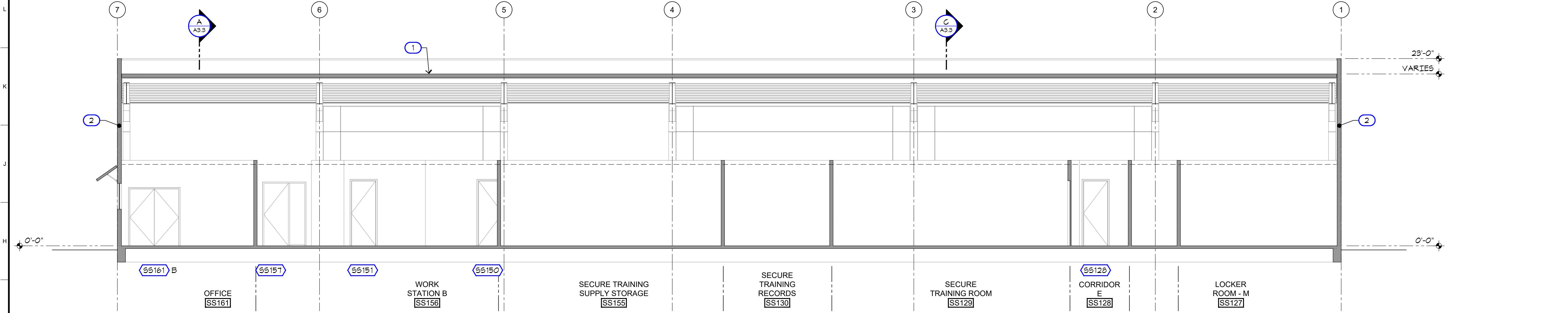
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 2220 Tulare Street, 8th Floor
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Sheet No.

A3.3



SECTION D



SECTION E

KEYNOTES LEGEND
 NOTE: SOME KEYNOTES MAY NOT APPEAR ON THIS SHEET.
 1 5" THICK R-42 PREFINISHED INSULATED MECHANICALLY SEALED 26 GA METAL ROOF PANELS W/ CONCEALED FASTENERS
 2 R-19 WALL INSULATION

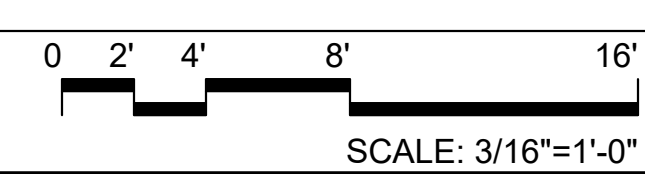


Project:
 Sheriff Area 2 Sub-Station
 1128 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
 FILE NAME: 19003_A3-4_Bldg_Sect

Sheet Content:
 BUILDING SECTIONS



Sheet No.
A3.4



GENERAL DOOR NOTES

- 1. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE, OTHER THAN FIRE DOORS, SHALL NOT EXCEED 5 POUNDS... (2016 CBC 1010.1.3, 11B-404.2.4)
2. THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF A DOOR... (2016 CBC 1010.1.5)
3. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2 INCH ABOVE THE FINISHED FLOOR... (2016 CBC 1010.1.7)
4. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE... (2016 CBC 1010.1.9, 11B-309.4)
5. THE LEVER OF LEVER ACTUATED LATCHES OR LOCKS SHALL BE CURVED WITH A RETURN TO WITHIN 1/2" OF THE DOOR... (2016 CBC 1010.1.9.1, CA REF STDS CODE, 12-10-2022)
6. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISHED FLOOR... (2016 CBC 1010.1.9.2, 11B-404.2.1)
7. IN BUILDINGS IN OCCUPANCY (GROUP A HAVING AN OCCUPANT LOAD OF 300 OR LESS, GROUPS B, F, M AND S, AND IN PLACES OF RELIGIOUS WORSHIP)... (2016 CBC 1010.1.9.3.2)
8. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS ARE NOT PERMITTED... (2016 CBC 1010.1.9.4)
9. THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION... (2016 CBC 1010.1.9.5)
10. DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES MINIMUM... (2016 CBC 11B-404.2.3)
11. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE... (2016 CBC 11B-404.2.10)
12. FIRE DOOR ASSEMBLIES SHALL BE LABELED BY AN APPROVED AGENCY... (2016 CBC 716.5.7)
13. PROVIDE SMOKE GASKETS AT ALL FIRE-RATED DOORS.
14. SUBMIT MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FIRE DOORS TO THE BUILDING INSPECTOR.
15. HARDWARE SUPPLIER SHALL COORDINATE KEYING REQUIREMENTS WITH OWNER OF BUILDING...
16. STOREFRONT MANUFACTURER TO PROVIDE NECESSARY BRACING AT WINDOW SYSTEM TO RESIST LOCAL WIND LOADS PER 2016 CBC.
12. CONTRACTOR SHALL VERIFY ACCESSIBLE MANEUVERING CLEARANCES AT DOORS PER DETAIL G6/A4.2

GLASS AND GLAZING NOTES

- 1. EACH LIGHT SHALL BEAR THE MANUFACTURER'S LABEL DESIGNATING THE TYPE AND THICKNESS OF GLASS.
2. GLASS SHALL BE FIRMLY SUPPORTED ON ALL FOUR SIDES.
3. GLAZING SUBJECT TO HUMAN IMPACT SHALL BE "TEMPERED GLAZING".
4. EACH UNIT OF TEMPERED GLASS SHALL BE PERMANENTLY IDENTIFIED BY THE MANUFACTURER...
5. THE FOLLOWING LOCATIONS SHALL REQUIRE SAFETY GLAZING:
5.1. GLAZING IN INGRESS AND EGRESS DOORS
5.2. GLAZING PANELS IN SWINGING DOORS
5.3. GLAZING IN FIXED AND OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF THE DOOR...
6. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL, OTHER THAN IN THOSE LOCATIONS DESCRIBED IN PRECEDING ITEMS...
6.1. EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9 SQUARE FEET;
6.2. EXPOSED BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR;
6.3. EXPOSED TOP EDGE GREATER THAN 36 INCHES ABOVE THE FLOOR; AND
6.4. ONE OR MORE WALKING SURFACE (S) WITHIN 36 INCHES HORIZONTALLY OF THE PLANE OF THE GLAZING.

ABBREVIATIONS

- AL ... ALUMINUM
FF ... FACTORY FINISH
HM ... HOLLOW METAL
PLA ... PLASTIC LAMINATE
PNT ... PAINTED
SC ... SOLID CORE WOOD
SF ... STORE FRONT
STN ... STAINED
ND ... WOOD

HARDWARE

- 1. ALL DOOR HARDWARE SHALL HAVE SPARTA LEVER TYPE AND 626/US26D SATIN CHROME FINISH UNLESS NOTED OTHERWISE.
2. SEE SPECIFICATIONS SECTION 081100 FOR COMPLETE DOOR HARDWARE INFORMATION.
TYPE 1Q (DOORS 55160 B, 55161 B)
6 EA HINGES
ACTIVE LEAF
1 EA LOCKSET, OFFICE
INACTIVE LEAF
1 EA STRIKE, DUSTPROOF
1 EA FLUSH BOLT, MANUAL
HARDWARE LIST
A. CLOSER (INCLUDES HOLD-OPEN UNLESS NOTED OTHERWISE)
B. CYLINDER
C. FLUSH BOLT, MANUAL
D. HINGES
E. LATCHSET, PASSAGE
F. LOCKSET, ENTRANCE/OFFICE
G. LOCKSET, OFFICE
H. LOCKSET, PRIVACY
I. LOCKSET, STORAGE
E. PANIC DEVICE
F. PANIC DEVICE W/ LEVER
G. PLATE, KICK
D. PLATE, PUSH
E. PULL HANDLE W/ PLATE
F. STOP, FLOOR
G. STOP, MALL
H. STRIKE, DUST-PROOF
TYPE 1 (DOORS 55101, 55107, 55115 C)
1 EA CYLINDER
REMAINDER OF DOOR HARDWARE BY DOOR SUPPLIER
OFFSET PIVOTS
PULLS
PANIC DEVICES
3-POINT LOCK
SURFACE-MOUNTED CLOSER
THRESHOLD
WEATHER-STRIPPING AND SWEEPS
[INCLUDE SECURITY KEY CARD ACCESS WHERE INDICATED]
TYPE 2 (DOORS 55102, 55103, 55108 A, 55108 B, 55109, 55110, 55114 A, 55114 B, 55120 A, 55120 B, 55130, 55140, 55141, 55143 THRU 55154, 55158, 55159, 55160 A, 55161 A)
3 EA HINGES
1 EA LOCKSET, OFFICE
1 EA CLOSER
1 EA STOP, MALL
[INCLUDE SECURITY KEY CARD ACCESS WHERE INDICATED]
TYPE 3 (DOORS 55104, 55106, 55122, 55123, 55126, 55127)
3 EA HINGES
1 EA PULL HANDLE W/ PLATE
1 EA PLATE, PUSH
1 EA PLATE, KICK
1 EA CLOSER
1 EA STOP, MALL
TYPE 4 (DOORS 55105, 55117A B, 55117B, 55129)
6 EA HINGES
2 EA PANIC DEVICE W/ LEVER
2 EA CLOSER
2 EA STOP, MALL
TYPE 5 (DOOR 55128)
3 EA HINGES
1 EA PANIC DEVICE W/ LEVER
1 EA CLOSER
1 EA STOP, MALL
TYPE 6 (DOORS 55111, 55112, 55113 A, 55113A A, 55113A B, 55113B, 55125, 55130 A, 55130 B, 55131, 55133, 55134, 55135, 55136, 55137, 55155)
3 EA HINGES
1 EA LOCKSET, STORAGE
1 EA CLOSER
1 EA STOP, MALL
[INCLUDE SECURITY KEY CARD ACCESS WHERE INDICATED]
TYPE 7 (DOORS 55114 B, 55119, 55120 C, 55121, 55142, 55151)
1 EA CYLINDER
REMAINDER OF DOOR HARDWARE BY DOOR SUPPLIER
OFFSET PIVOTS
PULL
PANIC DEVICE
3-POINT LOCK
SURFACE-MOUNTED CLOSER
THRESHOLD
WEATHER-STRIPPING AND SWEEPS
[INCLUDE SECURITY KEY CARD ACCESS WHERE INDICATED]
TYPE 8 (DOORS 55115 A, 55115 B)
3 EA HINGES
1 EA LATCHSET, PASSAGE
1 EA CLOSER
1 EA STOP, MALL
TYPE 9 (DOORS 55124, 55134)
3 EA HINGES
1 EA LOCKSET, PRIVACY
1 EA CLOSER
1 EA STOP, MALL

DOOR SCHEDULE NOTES

- 1. MAIN ENTRANCE. SEE 'GENERAL DOOR NOTES', SHEET A4.1, ITEM 7.
2. PROVIDE ACCESSIBLE RESTROOM SIGNAGE THIS DOOR. SEE DETAIL N1/A4.2.
3. * INDICATES SECURITY KEY CARD ACCESS
4. PROVIDE SIGN NEXT TO DOORS (5" SQ INTERNATIONAL SYMBOL OF ACCESSIBILITY)

DOOR SCHEDULE

Table with columns: DOOR NUMBER (SEE NOTE 3), DOOR LOCATION, DOOR SIZE, DOOR TYPE (SEE DTL A04.2), DOOR THICKNESS, DOOR MATERIAL, DOOR FINISH, FRAME TYPE (SEE DTL A04.2), FRAME MATERIAL, FRAME FINISH, HARDWARE, FIRE LABEL, NOTES. Rows include: PUBLIC WAITING AREA, LIVESCAN, SECURE RECEPTION, PUBLIC RR - M, PUBLIC AREA SECURED, PUBLIC RR - M, PUBLIC CONF RM, ADMIN CONF, ADMIN CONF, ADMIN ASST OFFICE, WORKSTATION A, TRAINING STORAGE, SUPPLY STORAGE, DATA, DATA, DATA RACKS, SPECIALTY UNIT 1 OFFICE, SPECIALTY UNIT 1 OFFICE, BREAK ROOM, BREAK ROOM, BREAK ROOM, NOT USED, TRAINING ROOM, TRAINING ROOM, TRAINING ROOM, NOT USED, CORRIDOR C, PHYSICAL TRAINING, PHYSICAL TRAINING, PHYSICAL TRAINING, CORRIDOR D, LOCKER ROOM - F, RR AND SHWR - F, LACTATION, JAN / STOR, RR AND SHWR - M, LOCKER ROOM - M, CORRIDOR E, SECURE TRAINING ROOM, SECURE TRAINING RECORDS, SECURE TRAINING RECORDS, ADMIN SUPPLY STORAGE, NOT USED, USA SUPPLY STORAGE, STORAGE / ARMORY, INV STAFF SUPPLY STORAGE, INV STAFF DET SUPPLY STOR, INV STAFF PROPERTY, INTERVIEW ROOM, RR, INTERVIEW ROOM, WORKSTATION D, CORRIDOR F, OFFICE, OFFICE, OFFICE, OFFICE, OFFICE, OFFICE, OFFICE, OFFICE, EVIDENCE PREP, INTERVIEW ROOM, INTERVIEW ROOM, SECURE TRAINING SUPPLY STORAGE, NOT USED, HALL, OFFICE, OFFICE, OFFICE, OFFICE, OFFICE, OFFICE, OFFICE

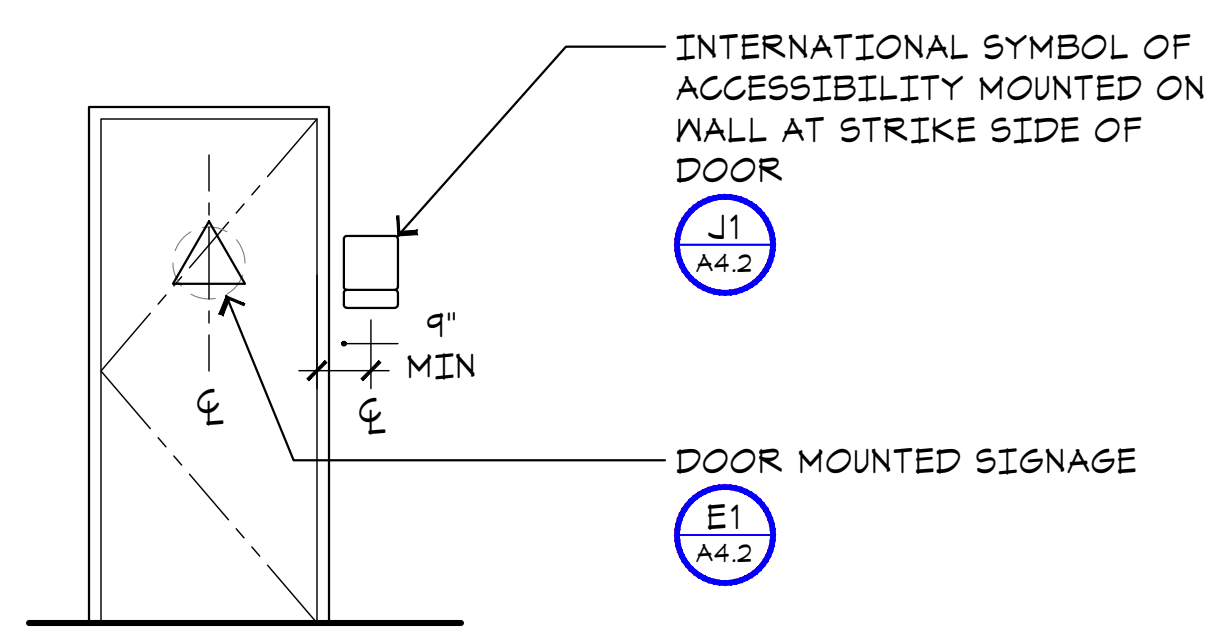


Project: Sheriff Area 2 Sub-Station
11229 N. Armstrong Ave., Fresno, CA
APN: 310-133-04-.05, and -.06
ISSUE DATE: 06.02.2020
PROJECT NO: 190293 / 19003
FILE NAME: 19003_A4-1_Door_Wndo

Sheet Content: DOORS AND WINDOWS

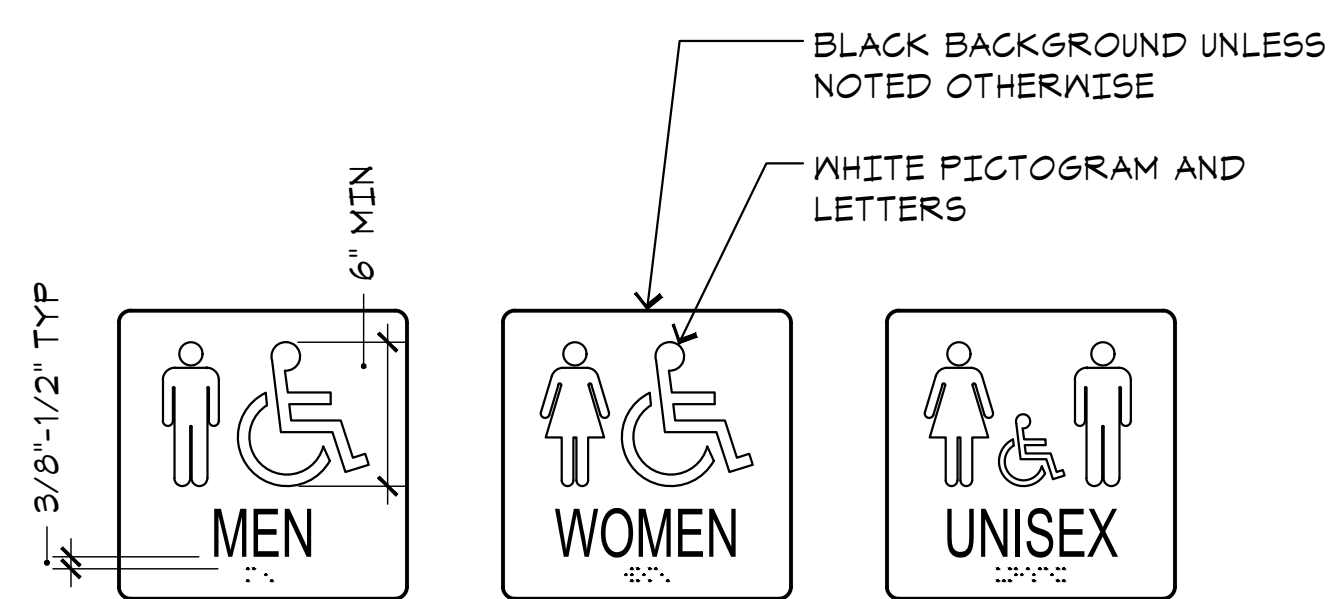


Sheet No. A4.1



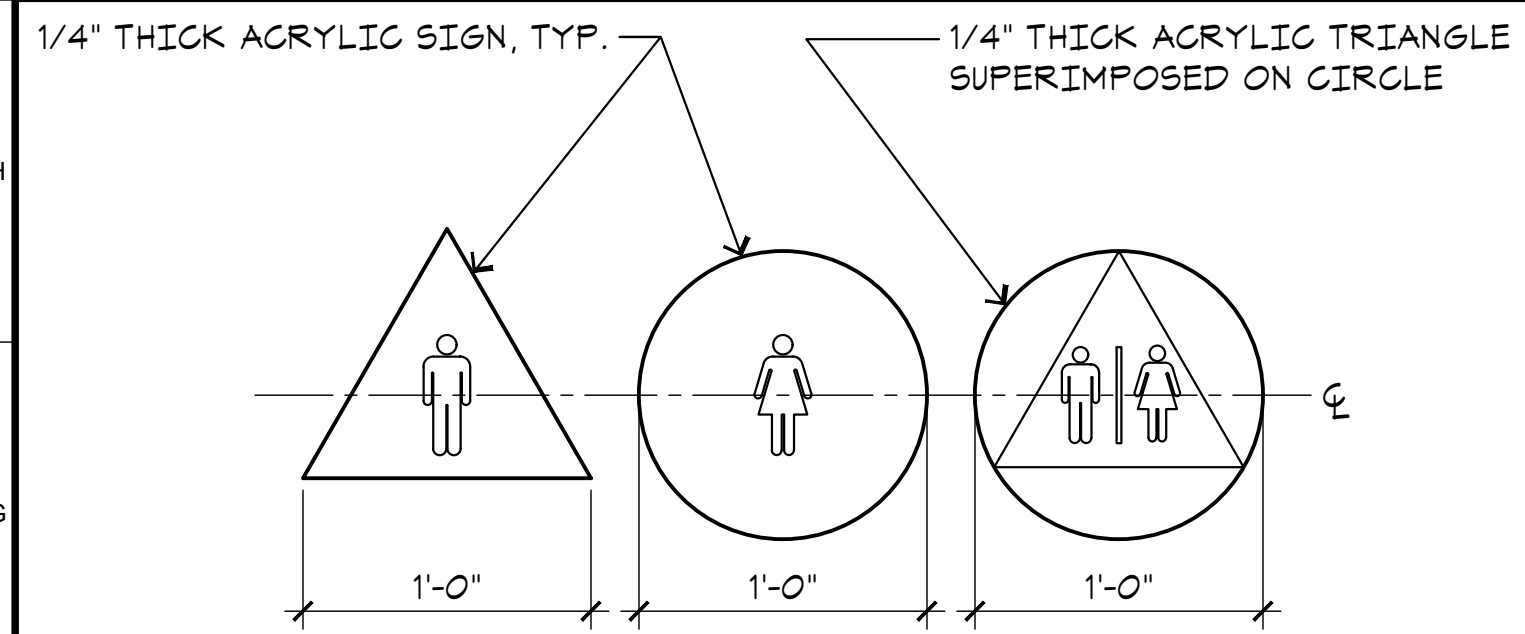
- NOTES:**
- SANITARY FACILITIES ARE REQUIRED TO PROVIDE TWO SEPARATE TYPES OF SIGNAGE, ONE TYPE LOCATED ON THE DOORWAY TO THE FACILITY, AND ANOTHER TYPE MOUNTED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR.
 - SEE DOOR SCHEDULE FOR TYPE AND HARDWARE.
 - SEE SIGN DETAILS FOR MOUNTING HEIGHT INFORMATION.

N1 ACC SIGNAGE AT RESTROOM DOOR
SCALE: 3/8"=1'-0"



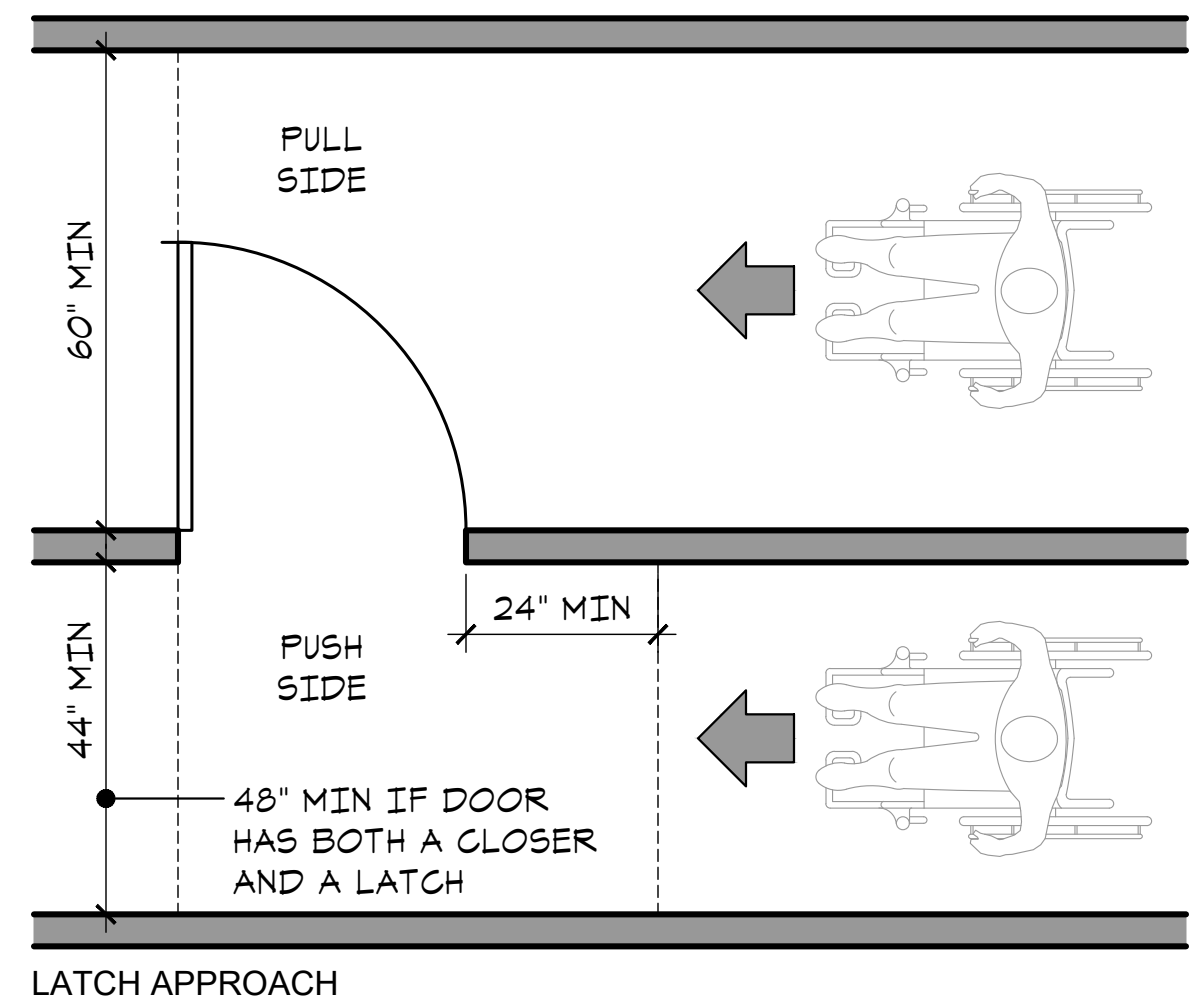
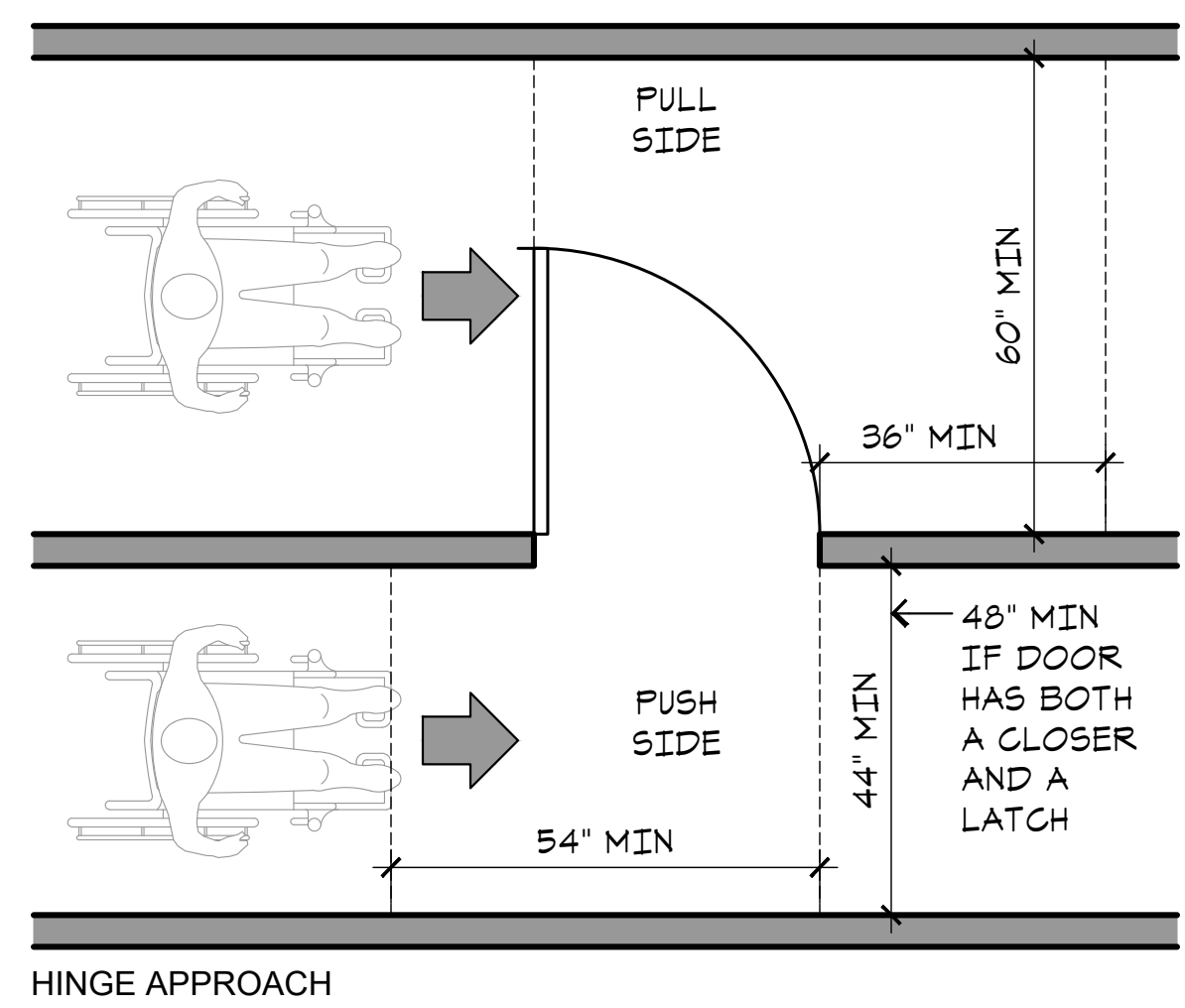
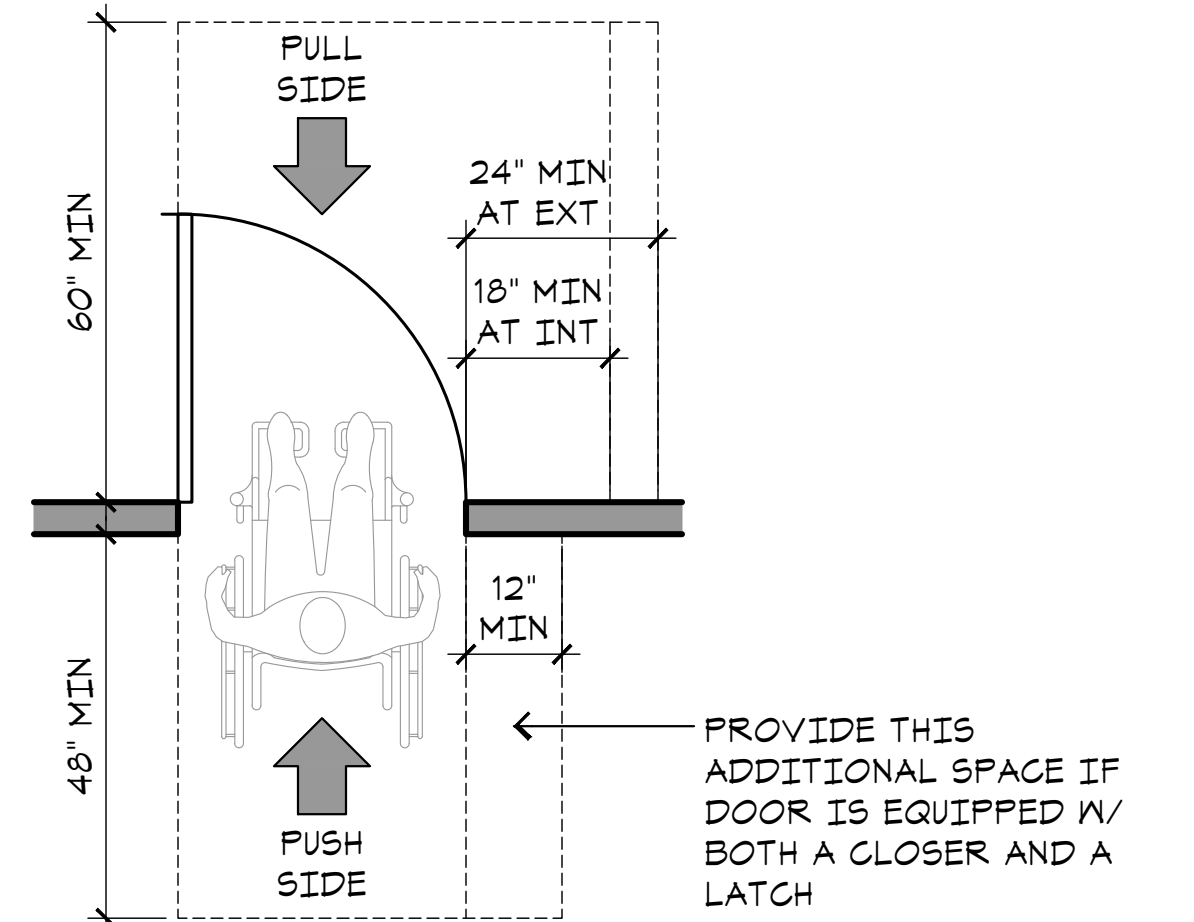
NOTE: SEE ALSO 'ACCESSIBLE SIGNAGE NOTES' SHEET AO.3.

J1 TYP ACCESSIBLE WALL SIGNAGE AT RESTROOMS
SCALE: 1-1/2"=1'-0"

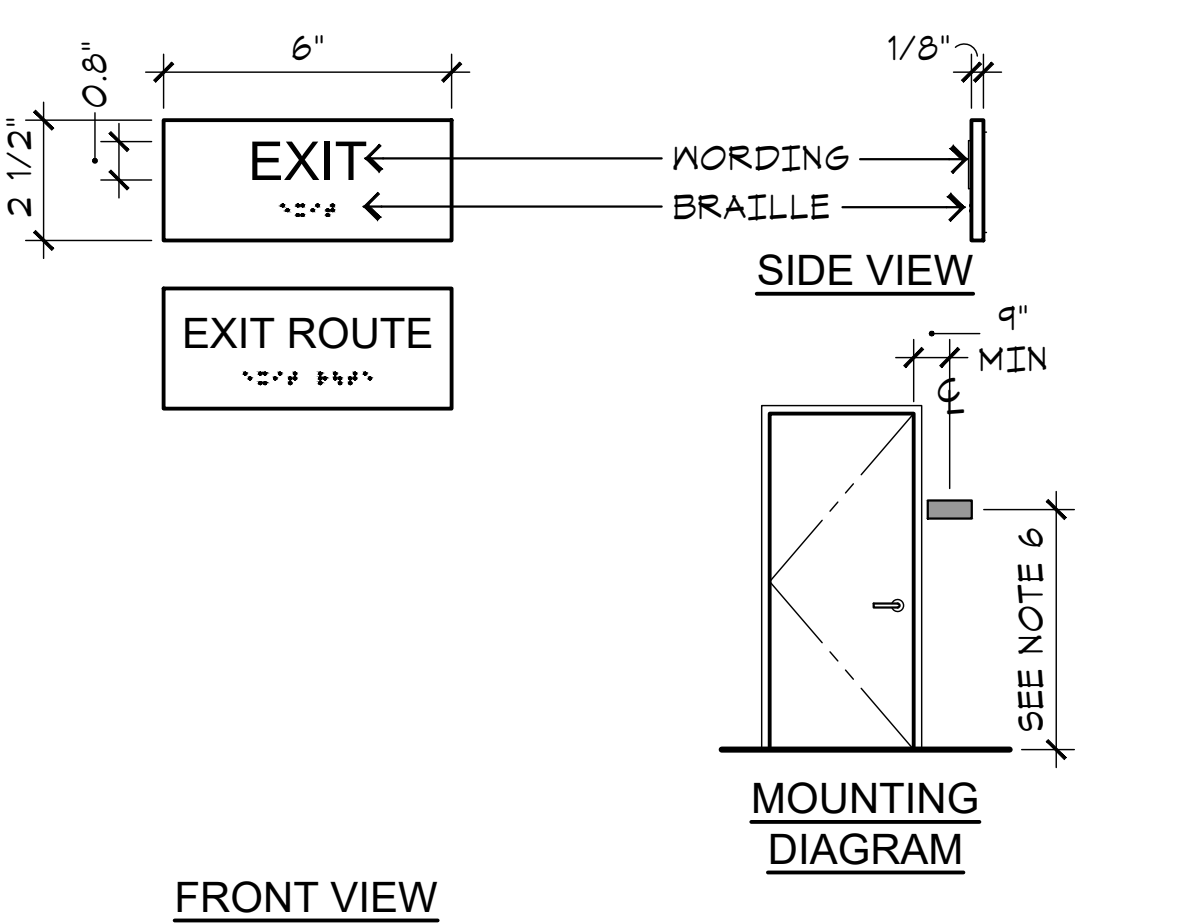


- NOTES:**
- THE TRIANGLE OR CIRCLE SYMBOL SHALL CONTRAST WITH THE DOOR, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. AT UNISEX SANITARY FACILITIES, THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE CIRCLE SYMBOL, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.
 - SIGNS SHALL BE CENTERED ON DOOR AT 58"-60" ABOVE THE FLOOR TO THE CENTER OF THE SIGN.

E1 TYPICAL DOOR SIGNAGE AT RESTROOMS
SCALE: 1-1/2"=1'-0"

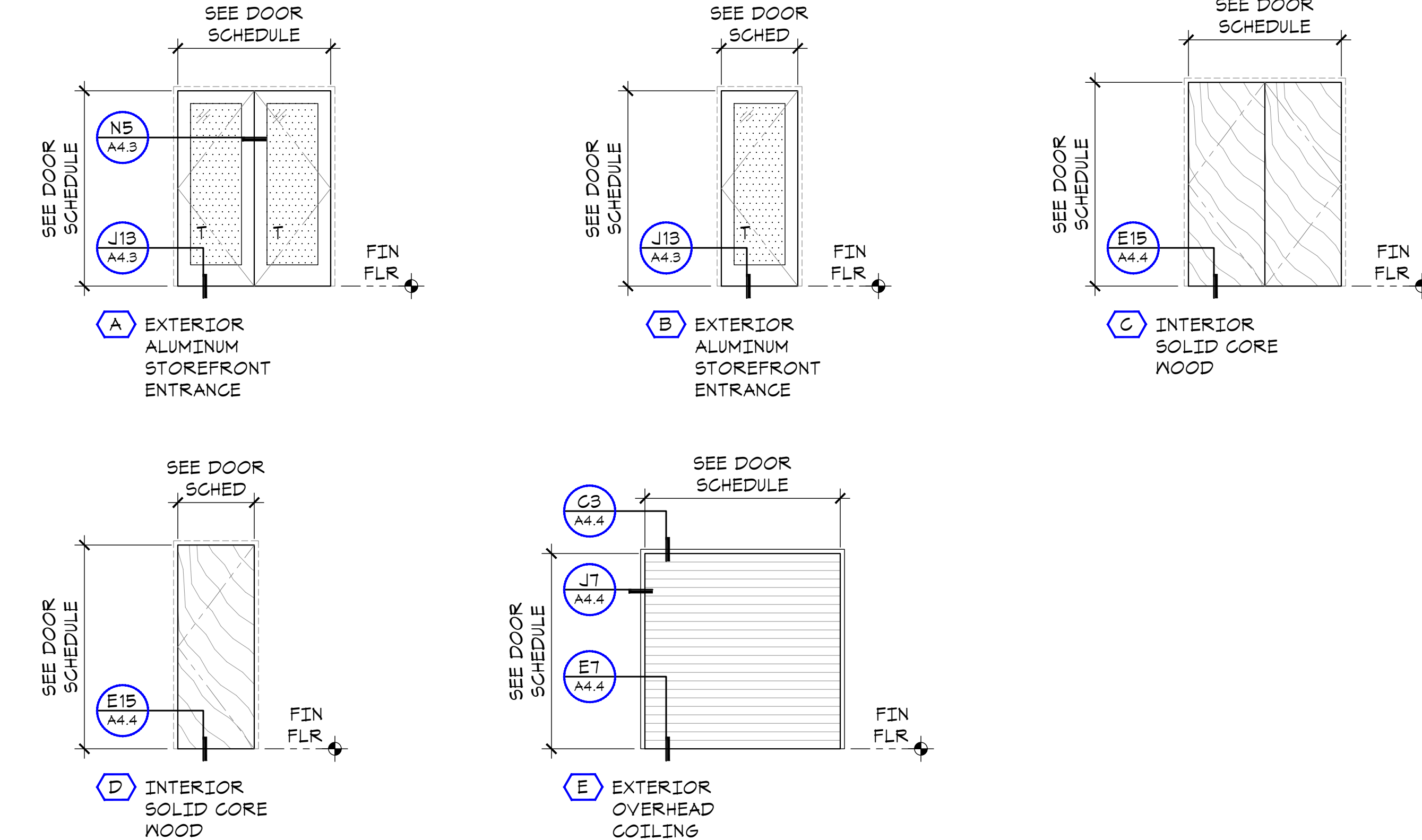


G6 MANEUVERING CLEARANCES AT DOORS
SCALE: 1/2"=1'-0"

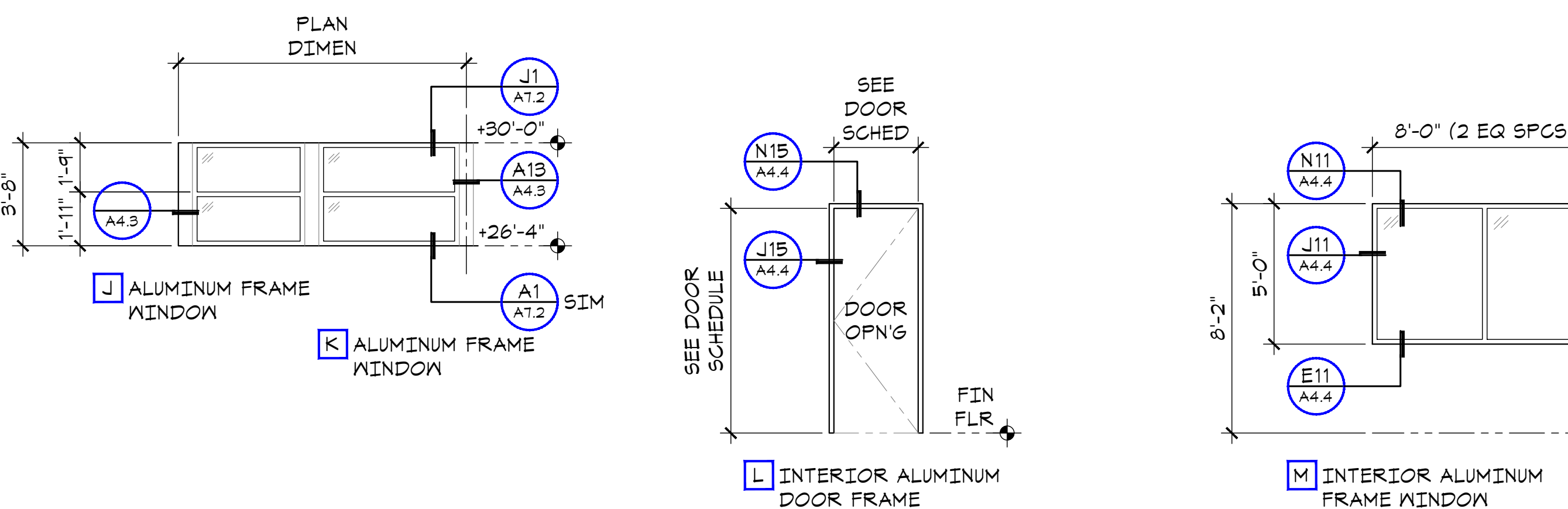
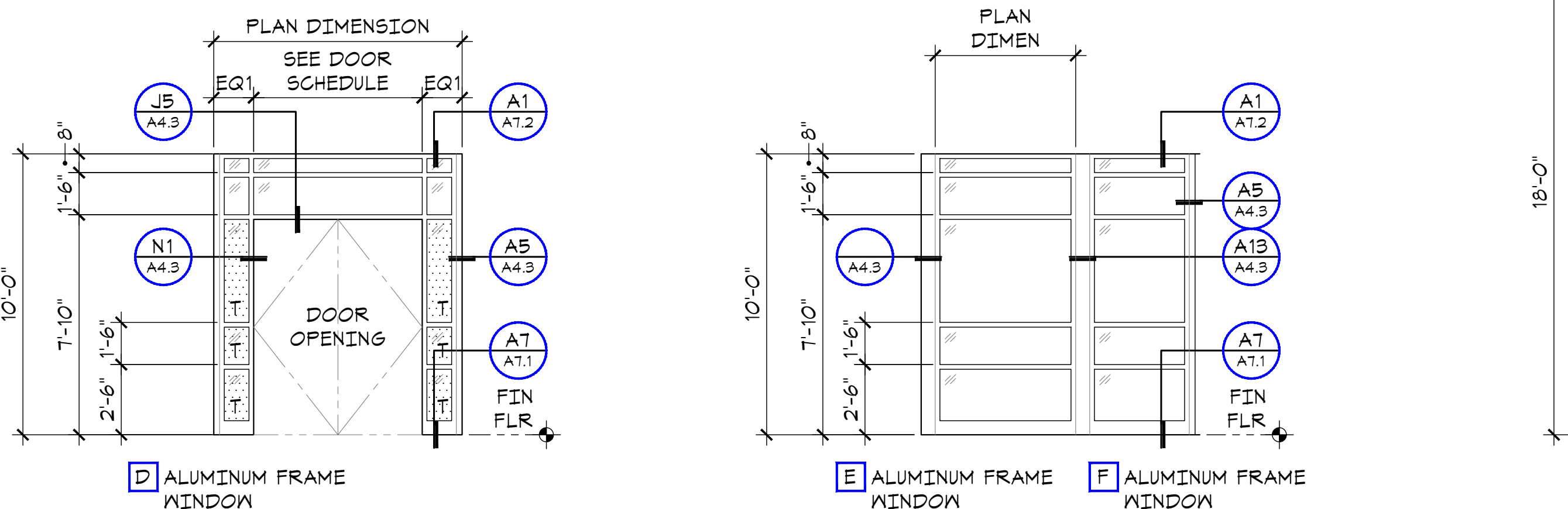
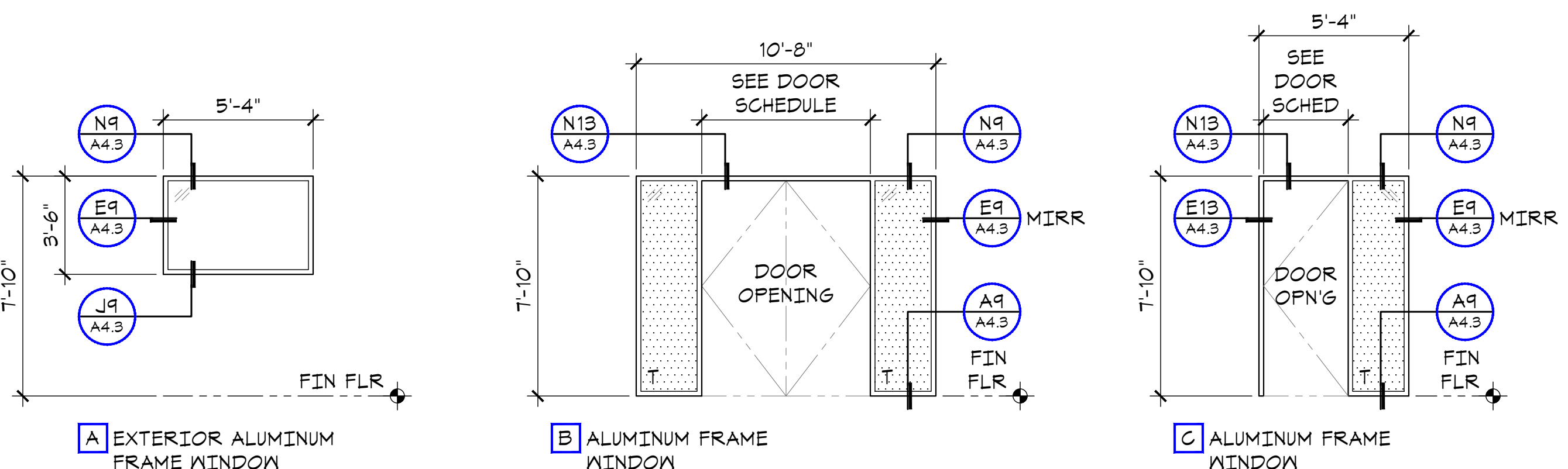


- NOTES:**
- PROVIDE TACTILE EXIT SIGNS AT REQUIRED AREAS AND EXITS PER CBC SECTION 1019.4.
 - EACH GRADE LEVEL EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD "EXIT".
 - EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE LEVEL EXTERIOR EXIT BY A MEANS OF A STAIRWAY OR RAMP SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE FOLLOWING WORDS AS APPROPRIATE:
 - "EXIT STAIR DOWN"
 - "EXIT RAMP DOWN"
 - "EXIT STAIR UP"
 - "EXIT RAMP UP"
 - EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE"
 - EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS: "EXIT ROUTE"
 - SEE ALSO 'ACCESSIBLE SIGNAGE NOTES' SHEET AO.3.

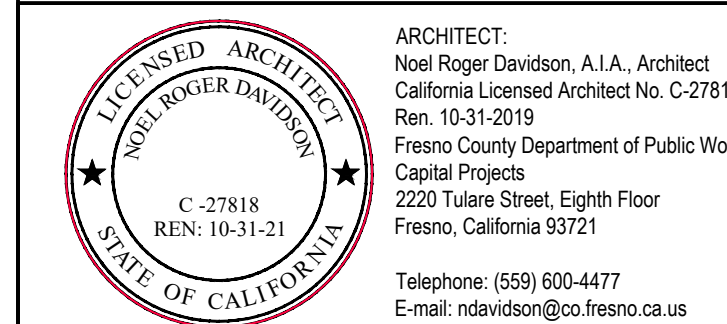
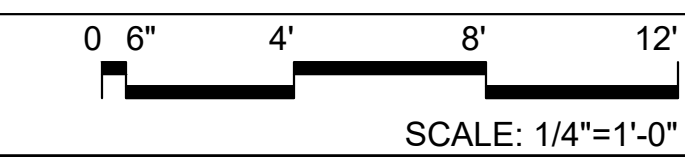
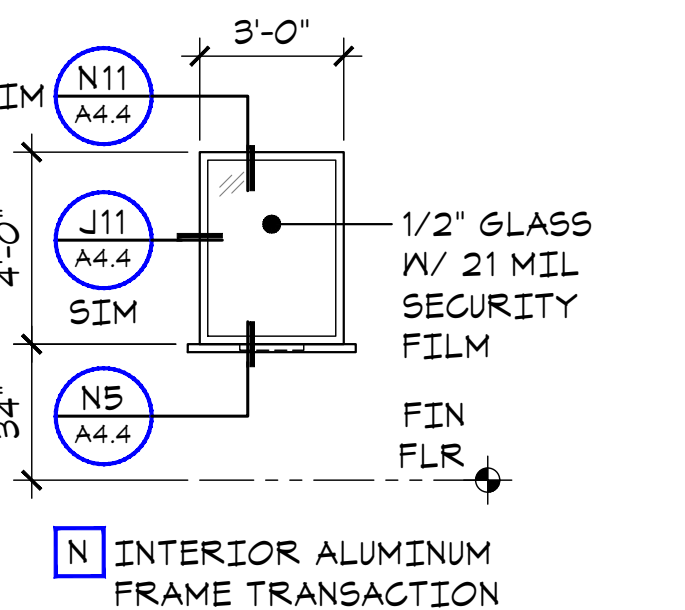
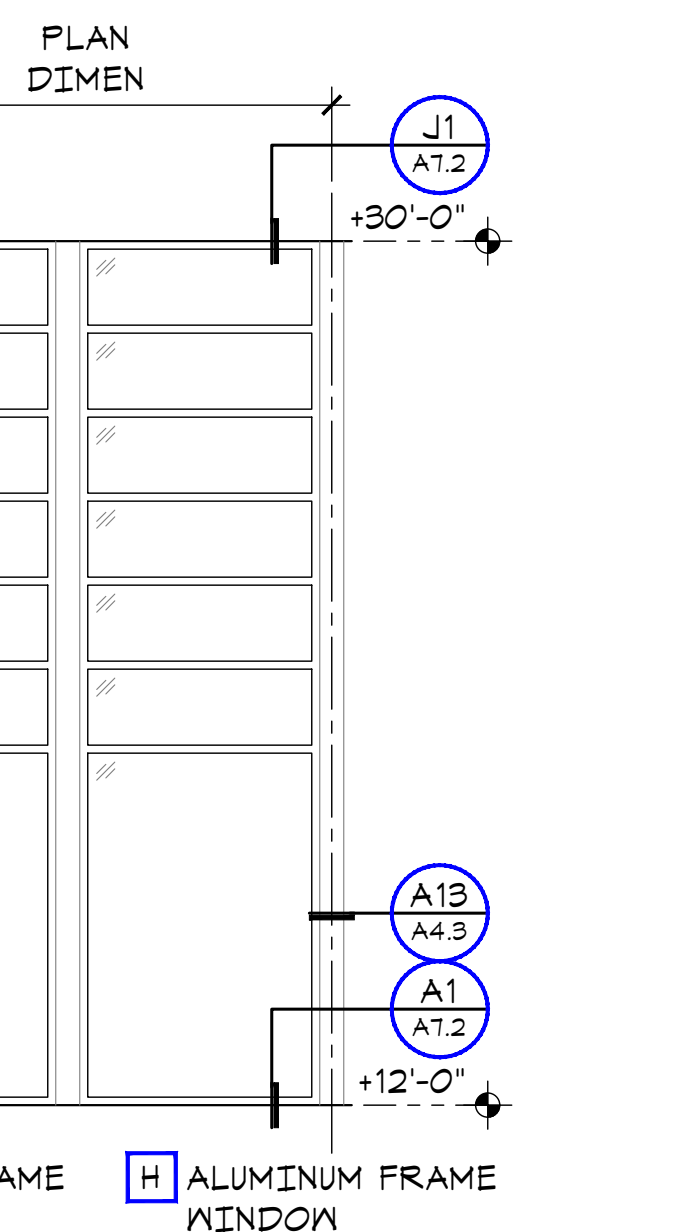
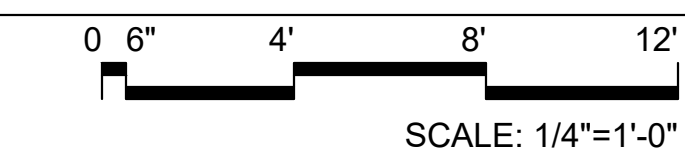
A5 'EXIT' SIGNAGE
SCALE: NONE



L10 DOOR ELEVATIONS
SCALE: 1/4"=1'-0"



A10 WINDOW & FRAME ELEVATIONS
SCALE: 1/4"=1'-0"



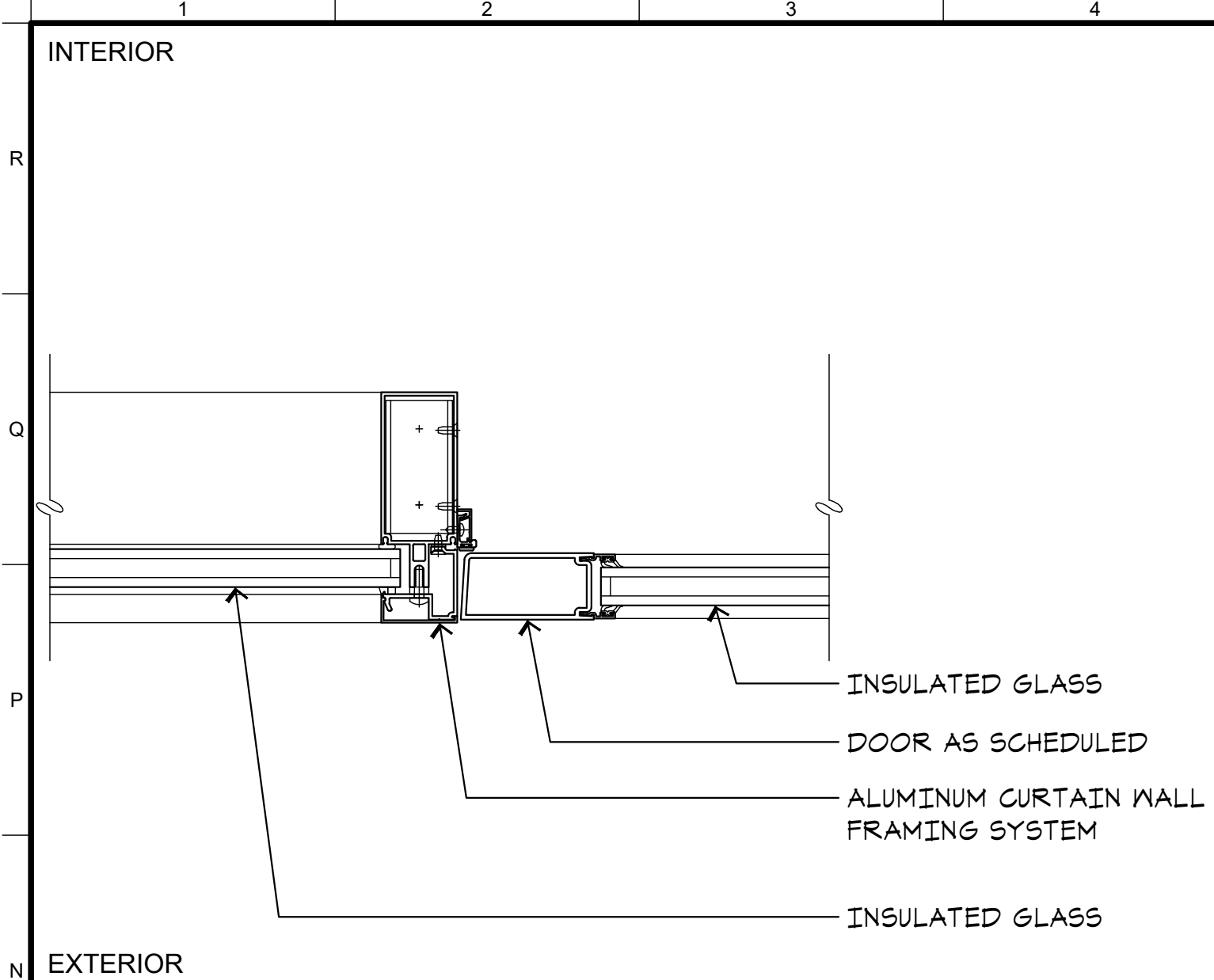
Project:
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 06.02.2020
PROJECT NO: 19003 / 19003
FILE NAME: 19003_A4-2_Door_Windo_Details

Sheet Content:
DOOR AND WINDOW DETAILS

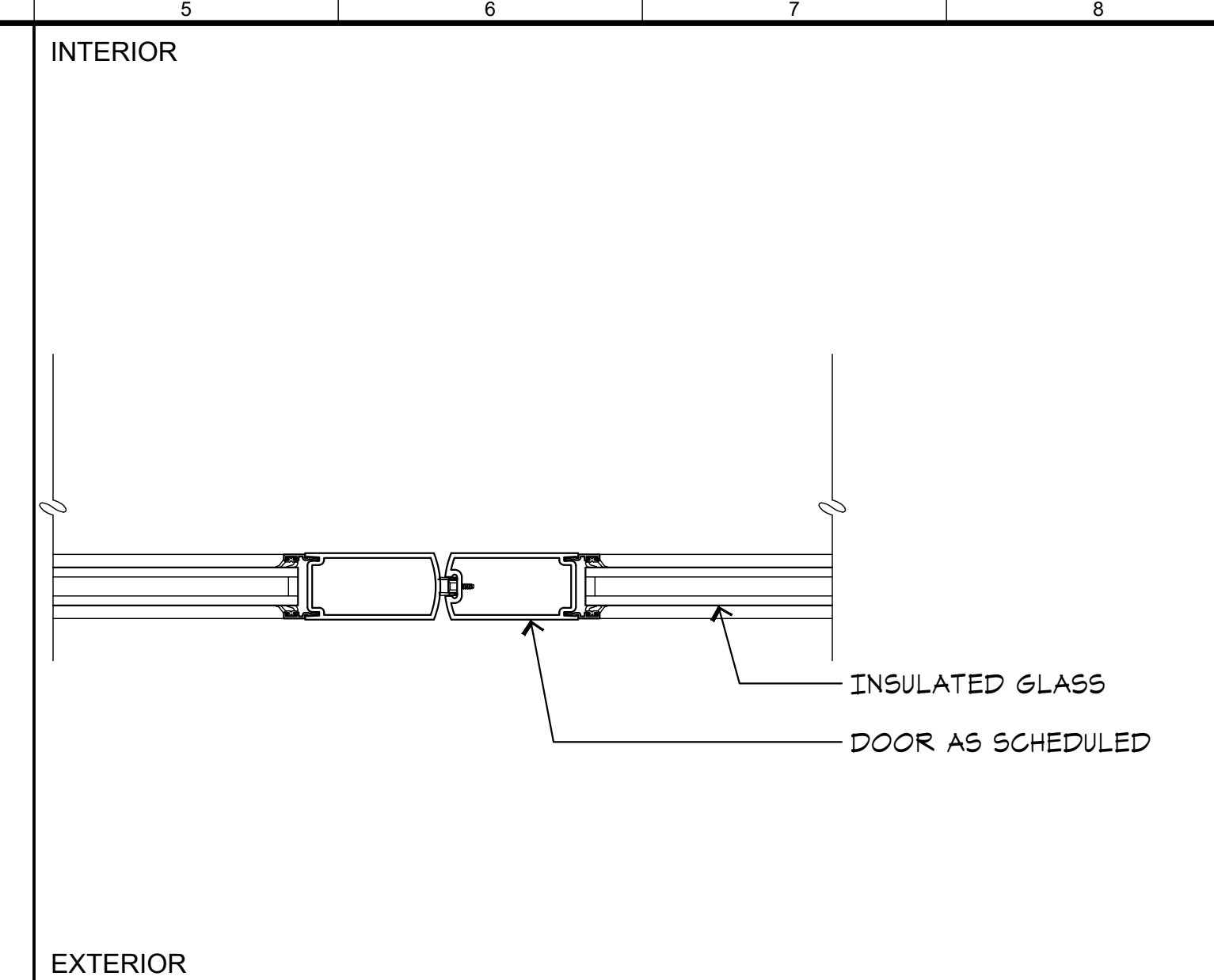


Sheet No.
A4.2

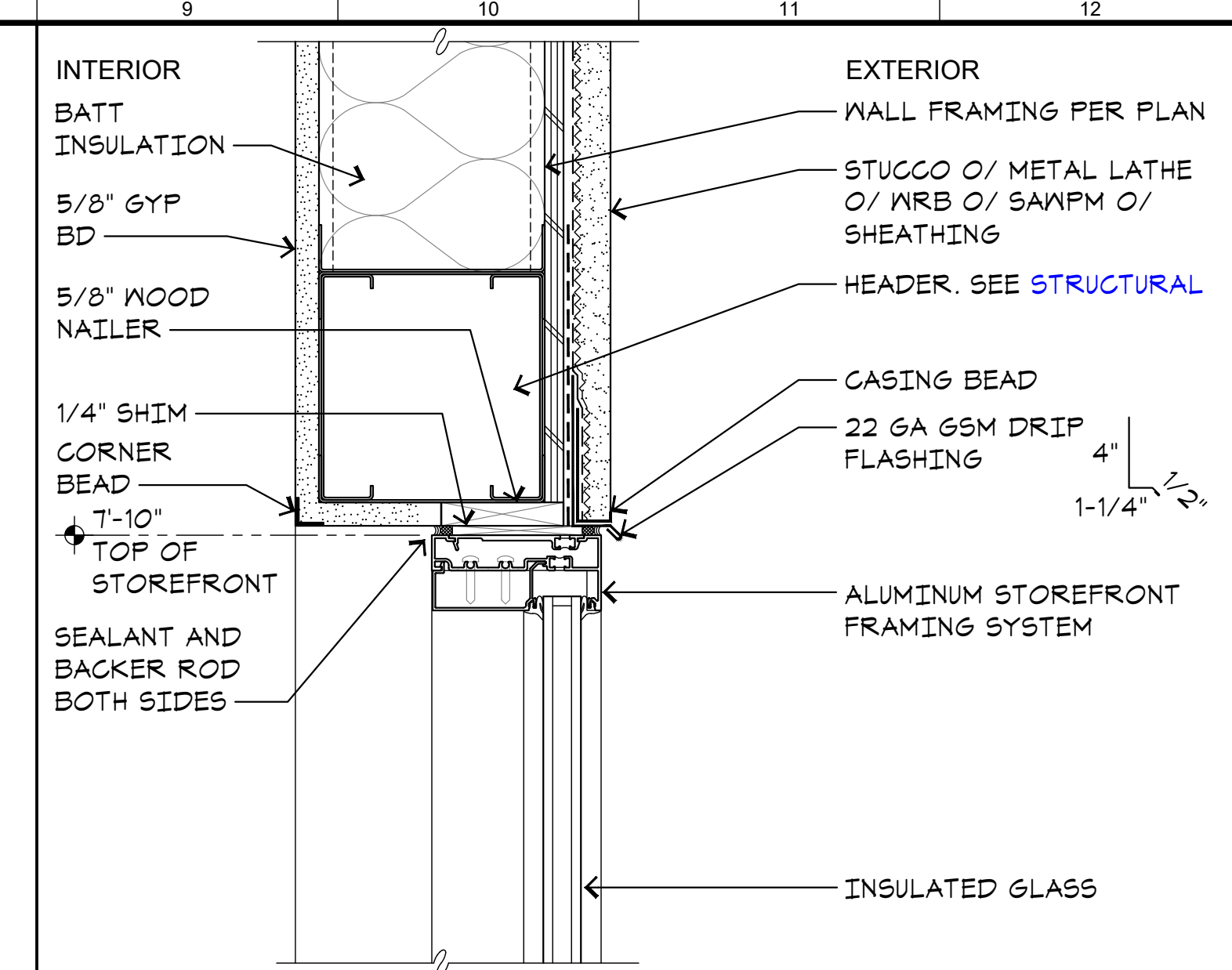
2220 Tulare Street, 8th Floor
Fresno, California 93721



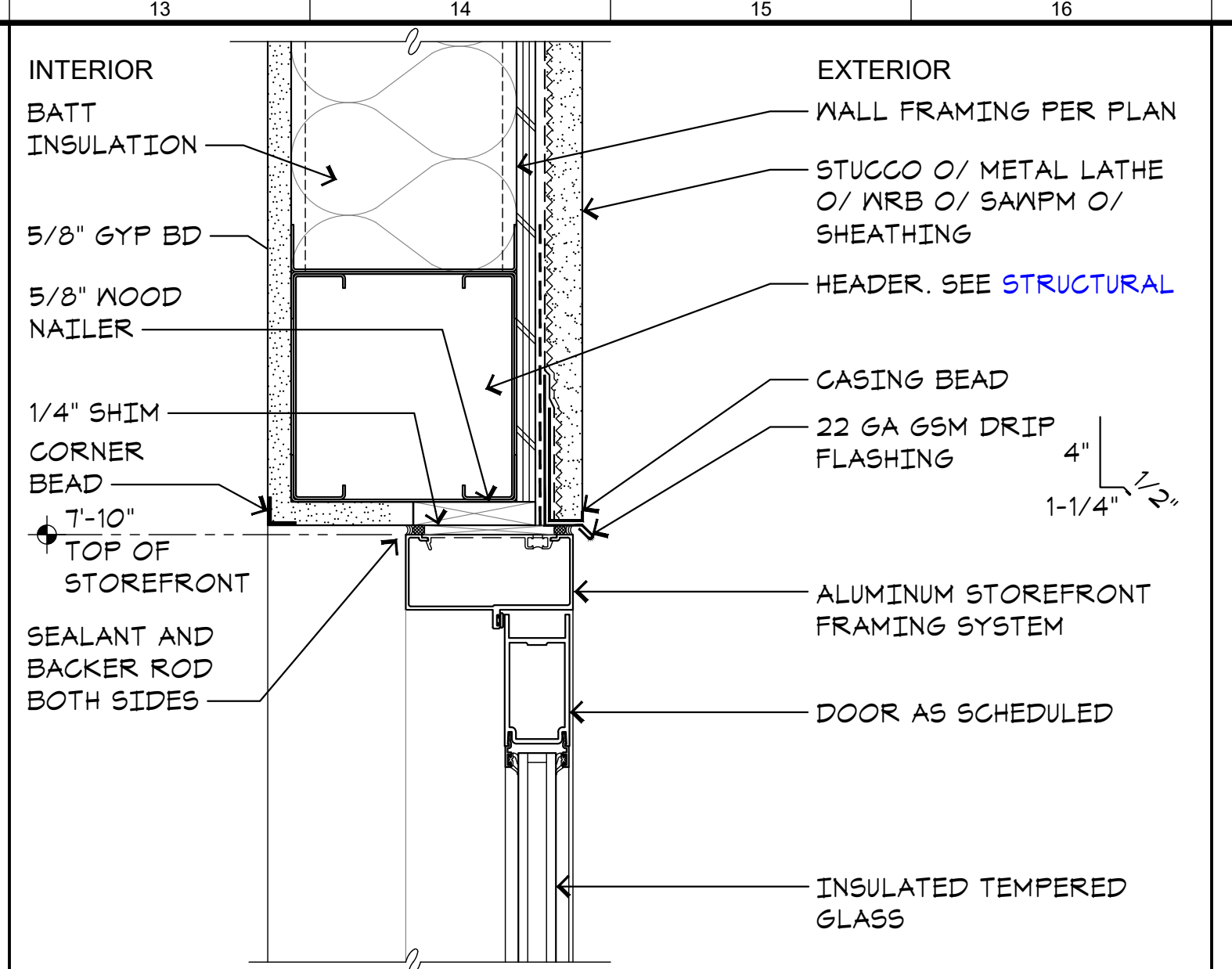
N1 JAMB AT DOOR
A4.3 SCALE: 3"=1'-0"



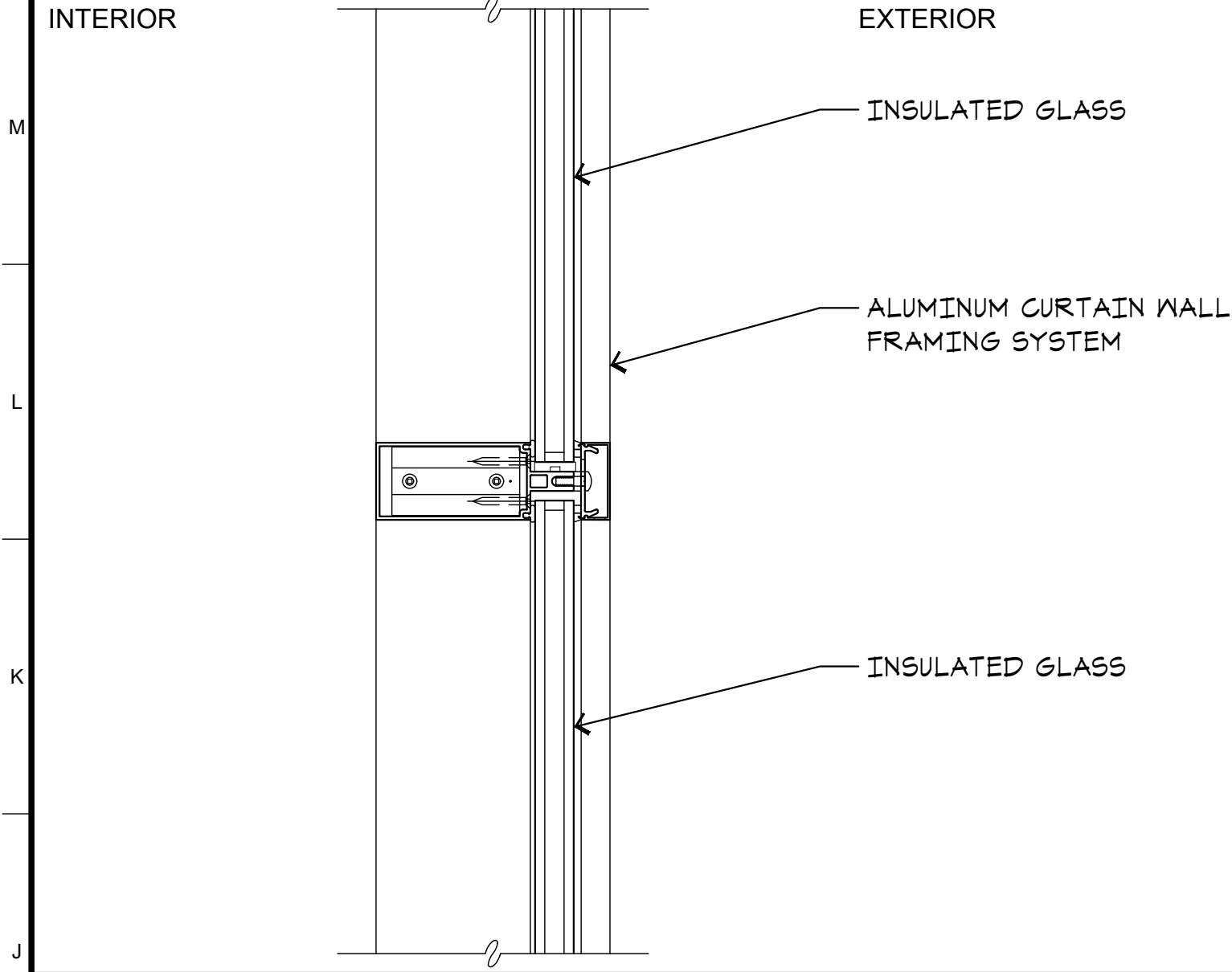
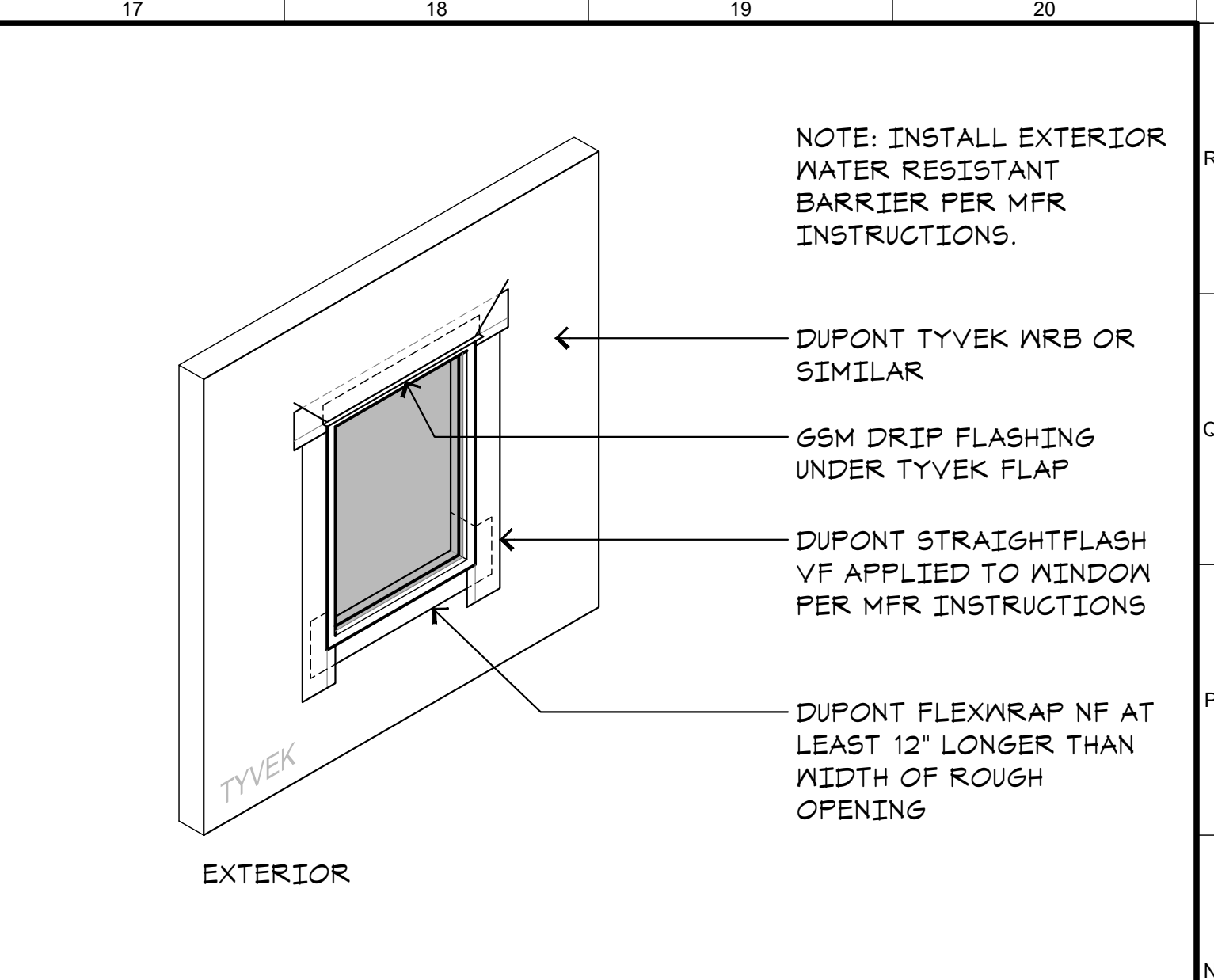
N5 MEETING STILE AT DOOR
A4.3 SCALE: 3"=1'-0"



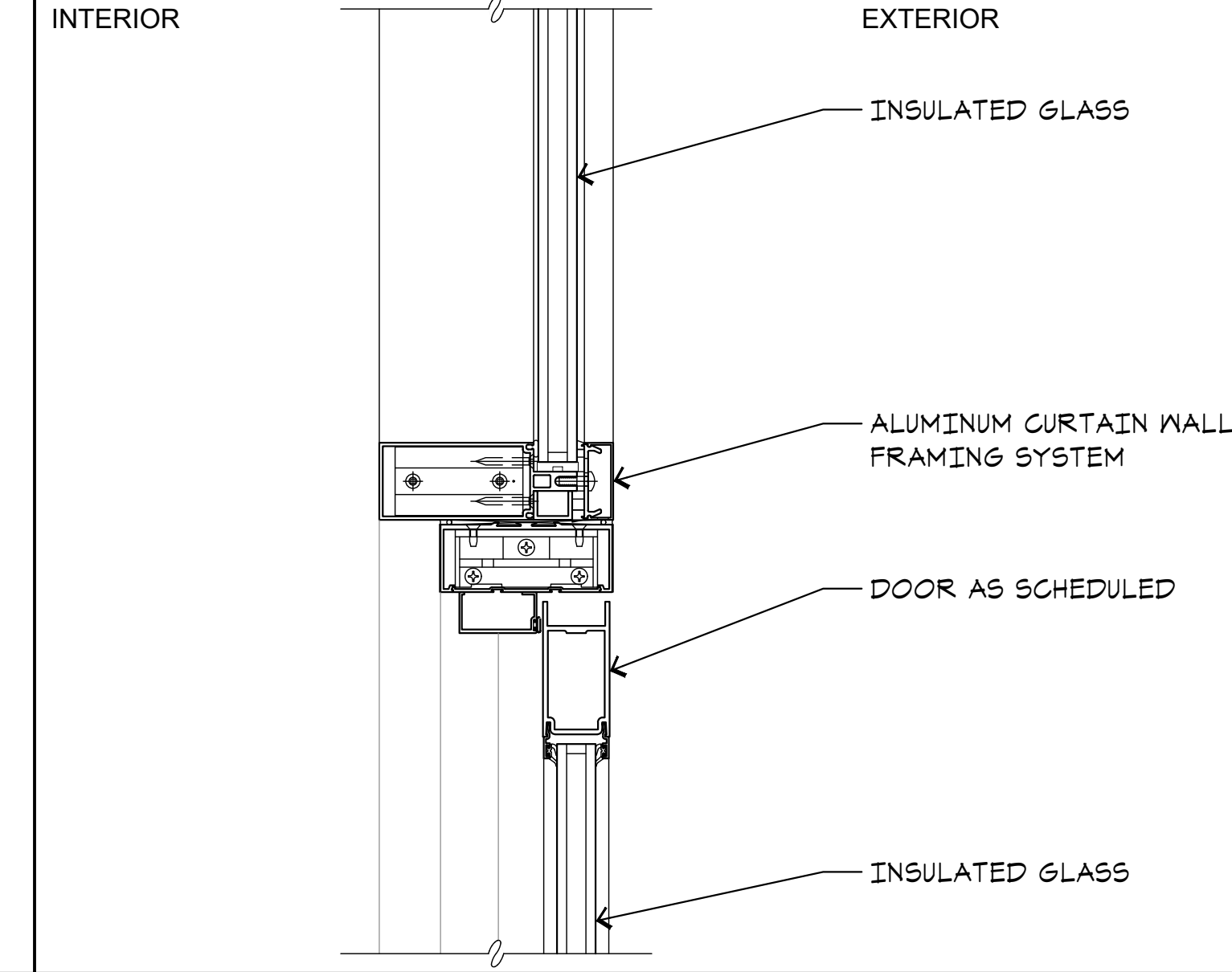
N9 HEAD AT EXTR SF
A4.3 SCALE: 3"=1'-0"



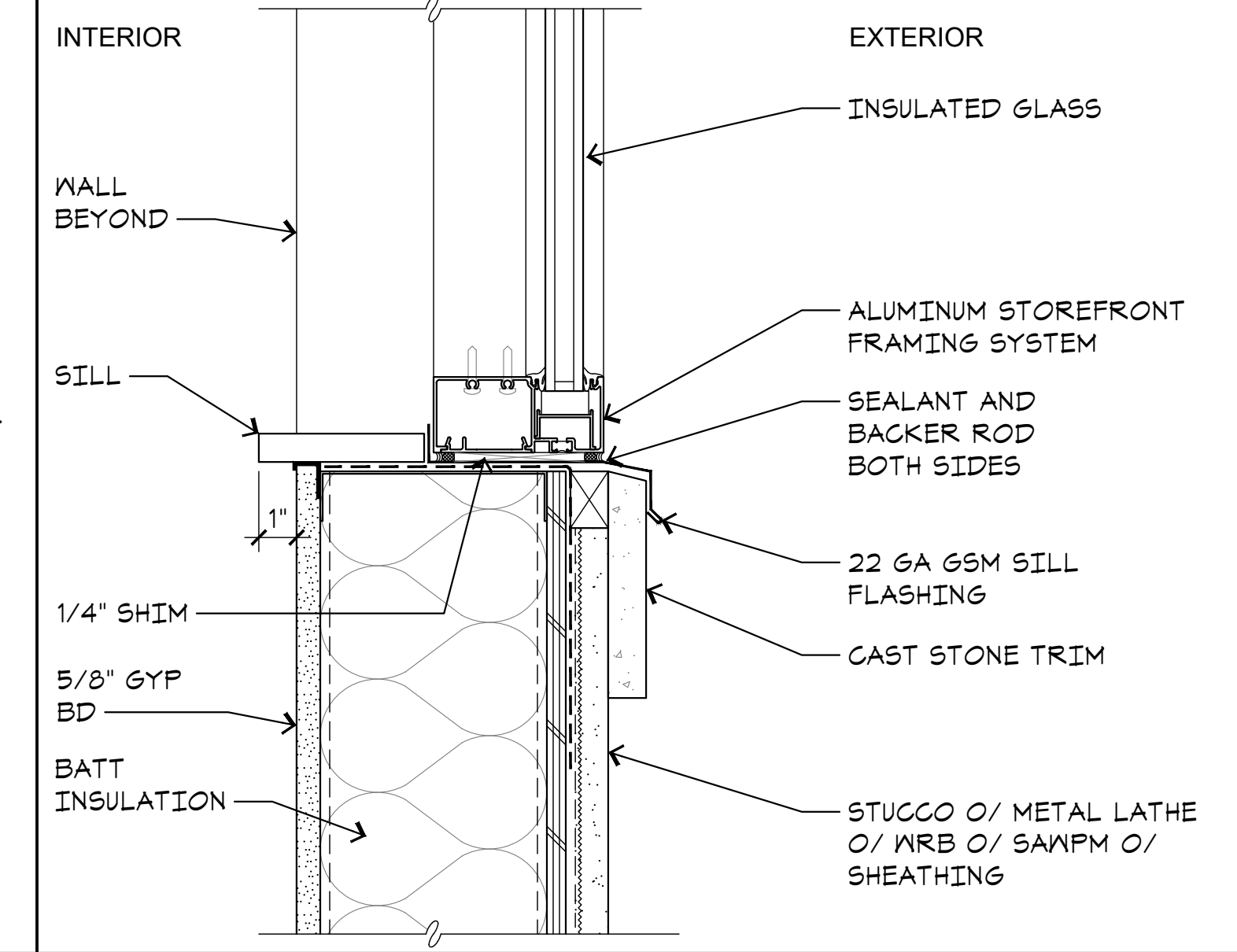
N13 HEAD AT EXTR SF ENTR
A4.3 SCALE: 3"=1'-0"



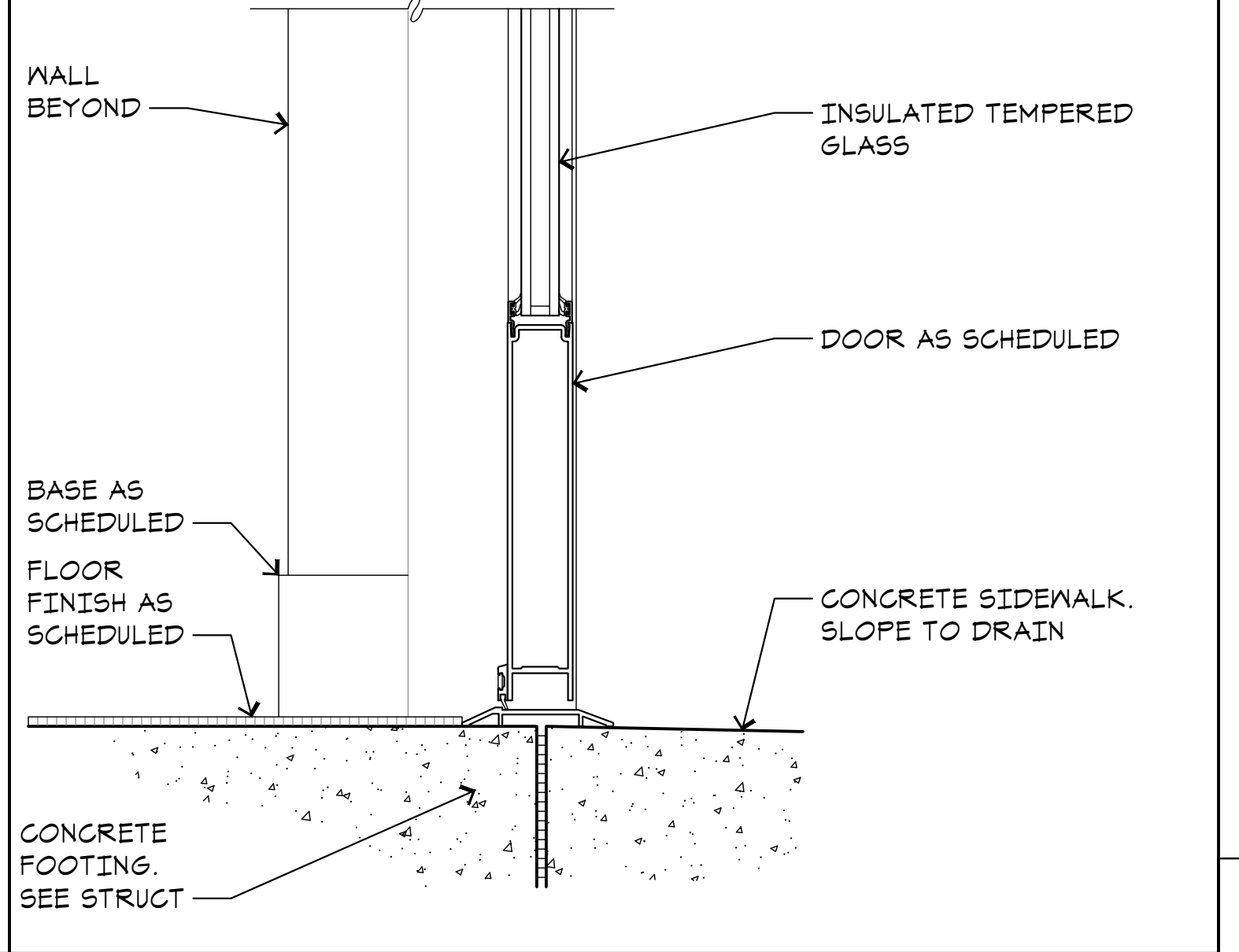
J1 HORIZONTAL MULLION
A4.3 SCALE: 3"=1'-0"



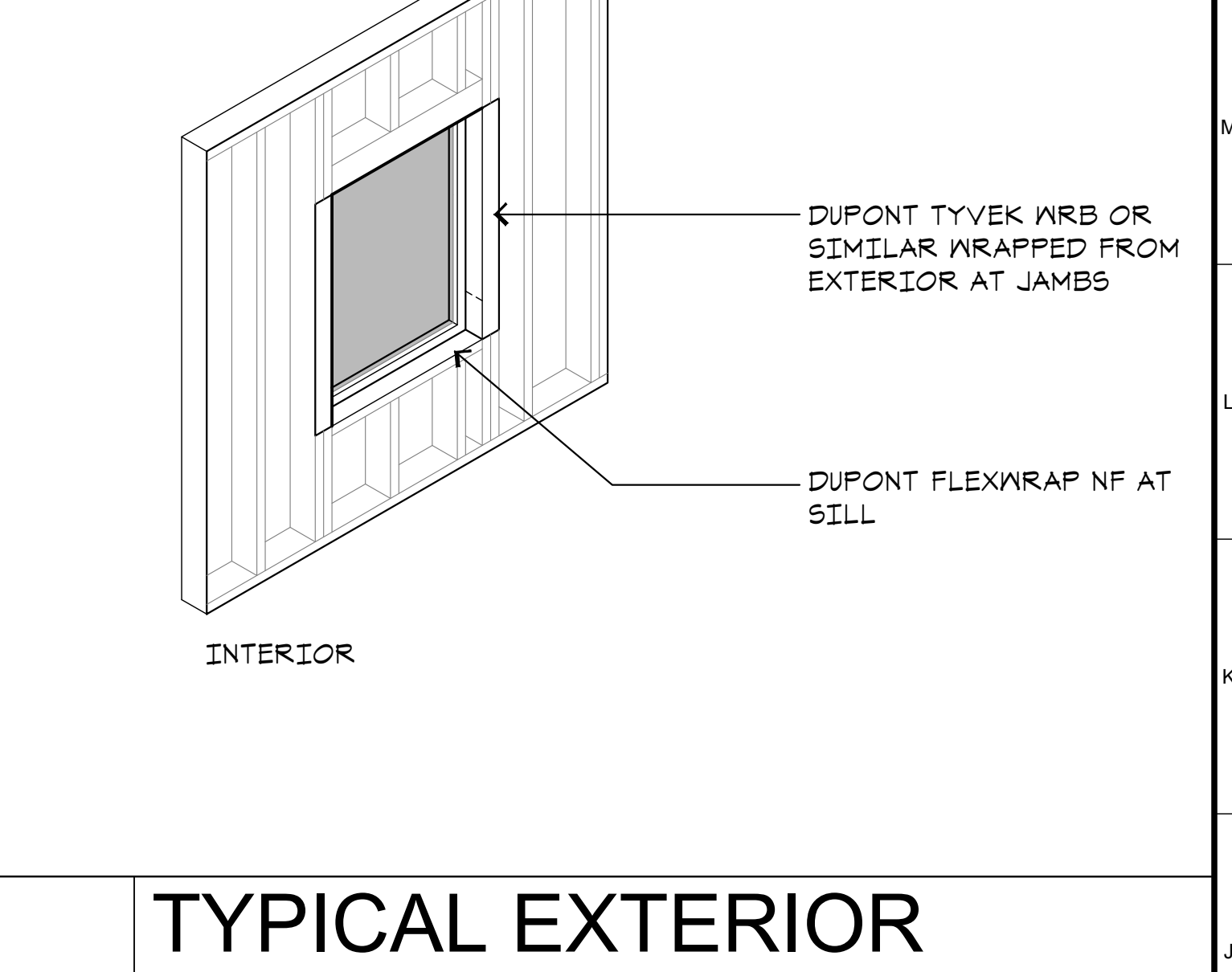
J5 HEAD AT DOOR
A4.3 SCALE: 3"=1'-0"



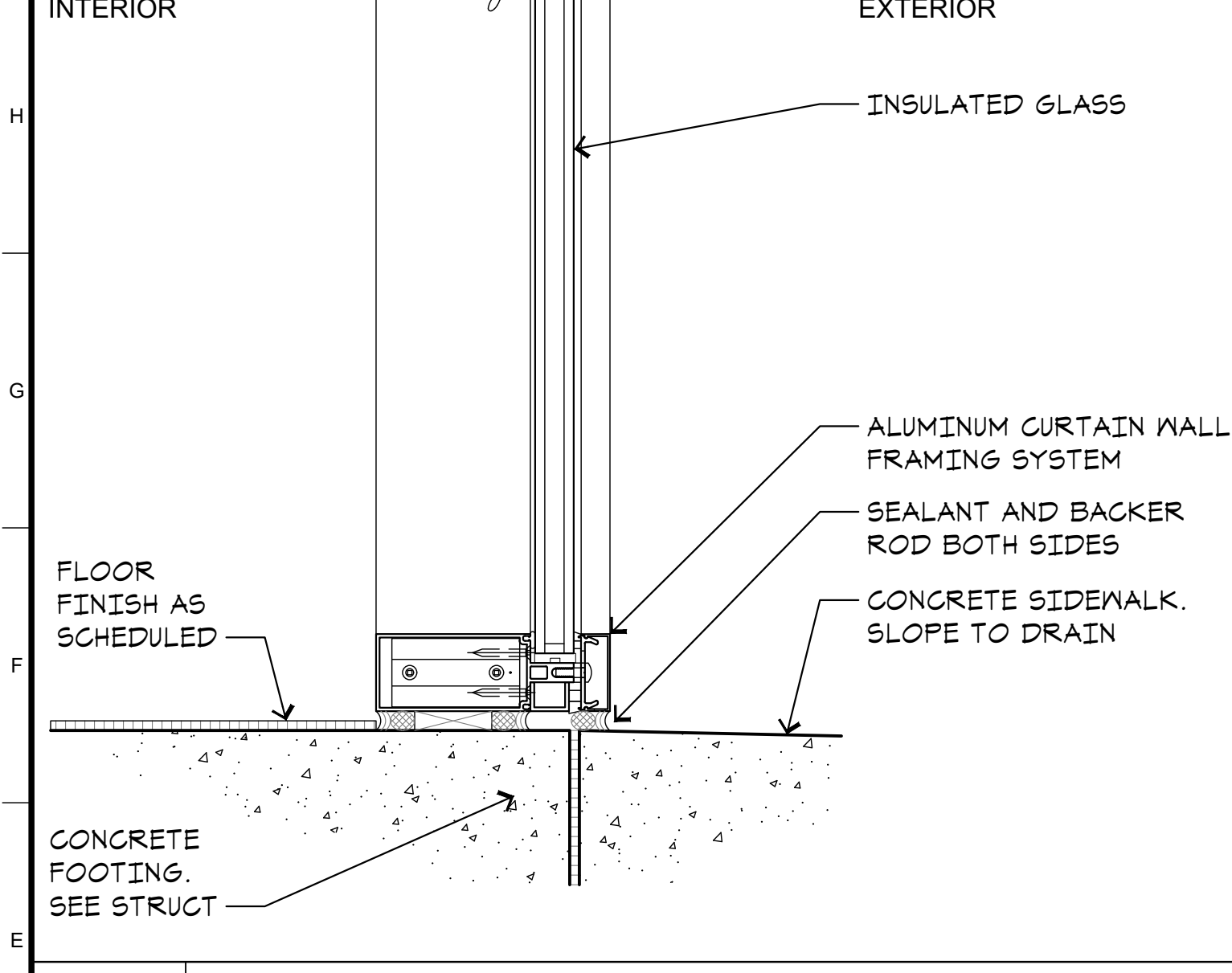
J9 SILL AT EXTR SF
A4.3 SCALE: 3"=1'-0"



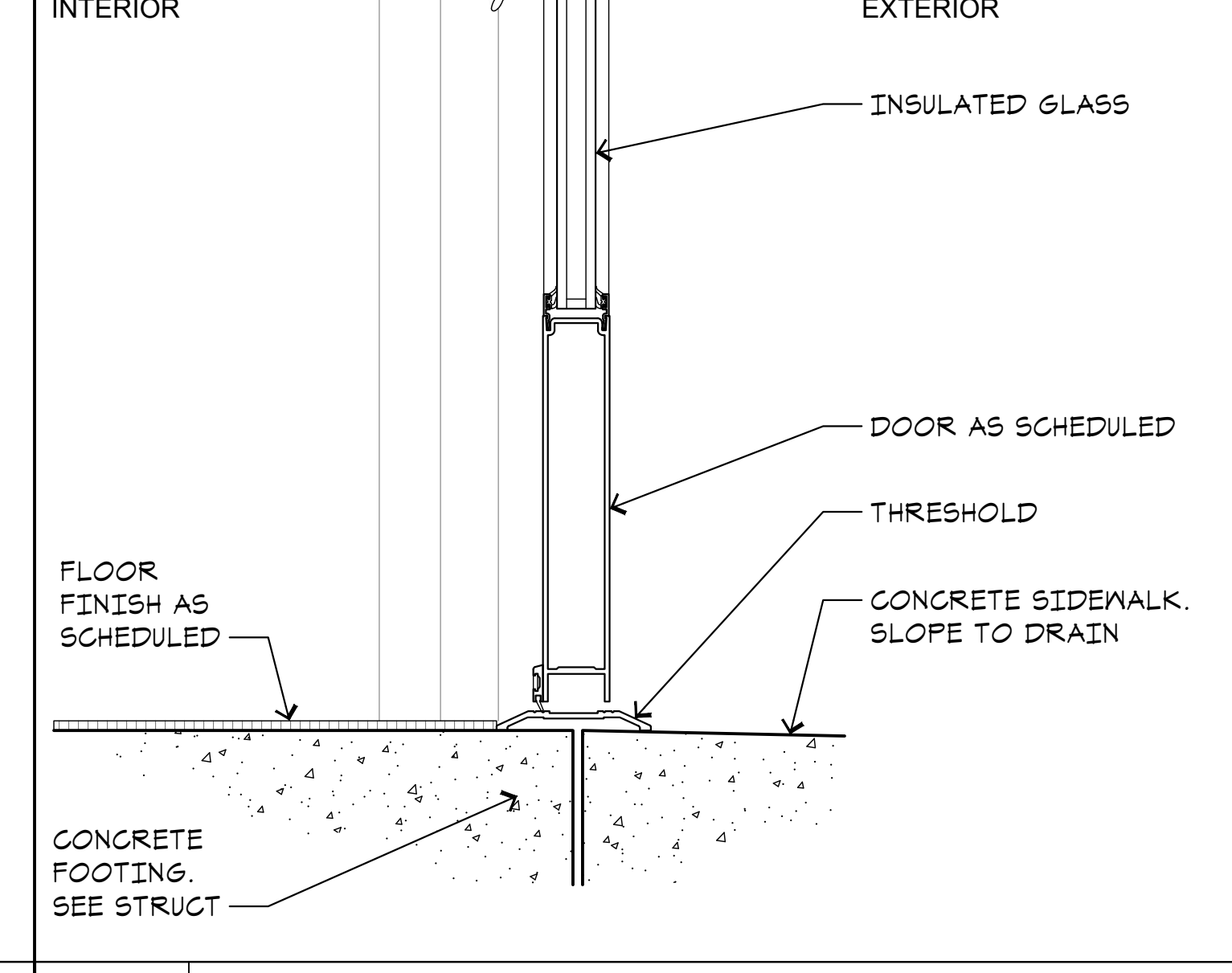
J13 SILL AT EXTR SF ENTR
A4.3 SCALE: 3"=1'-0"



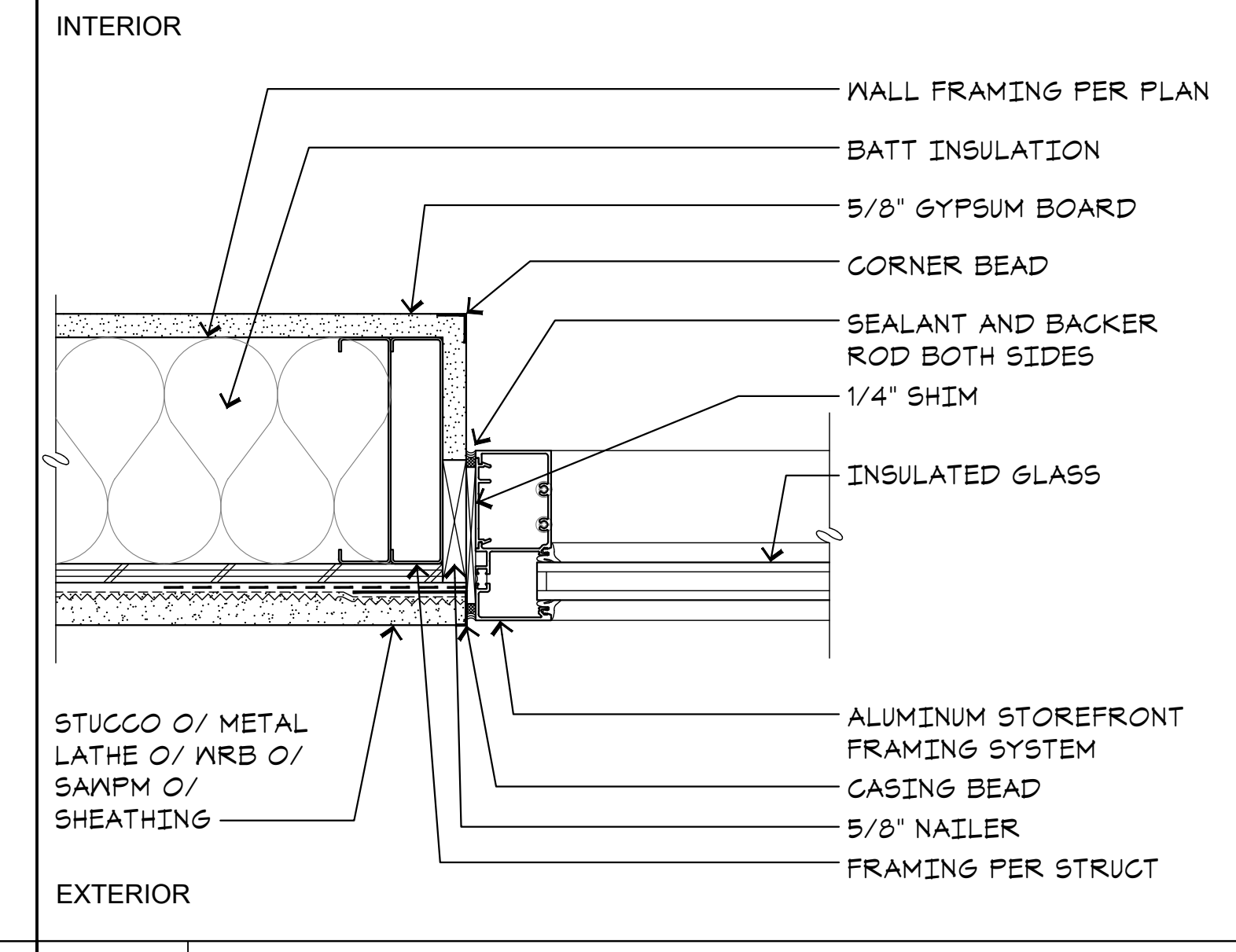
J17 TYPICAL EXTERIOR OPENING FLASHING
A4.3 SCALE: NONE



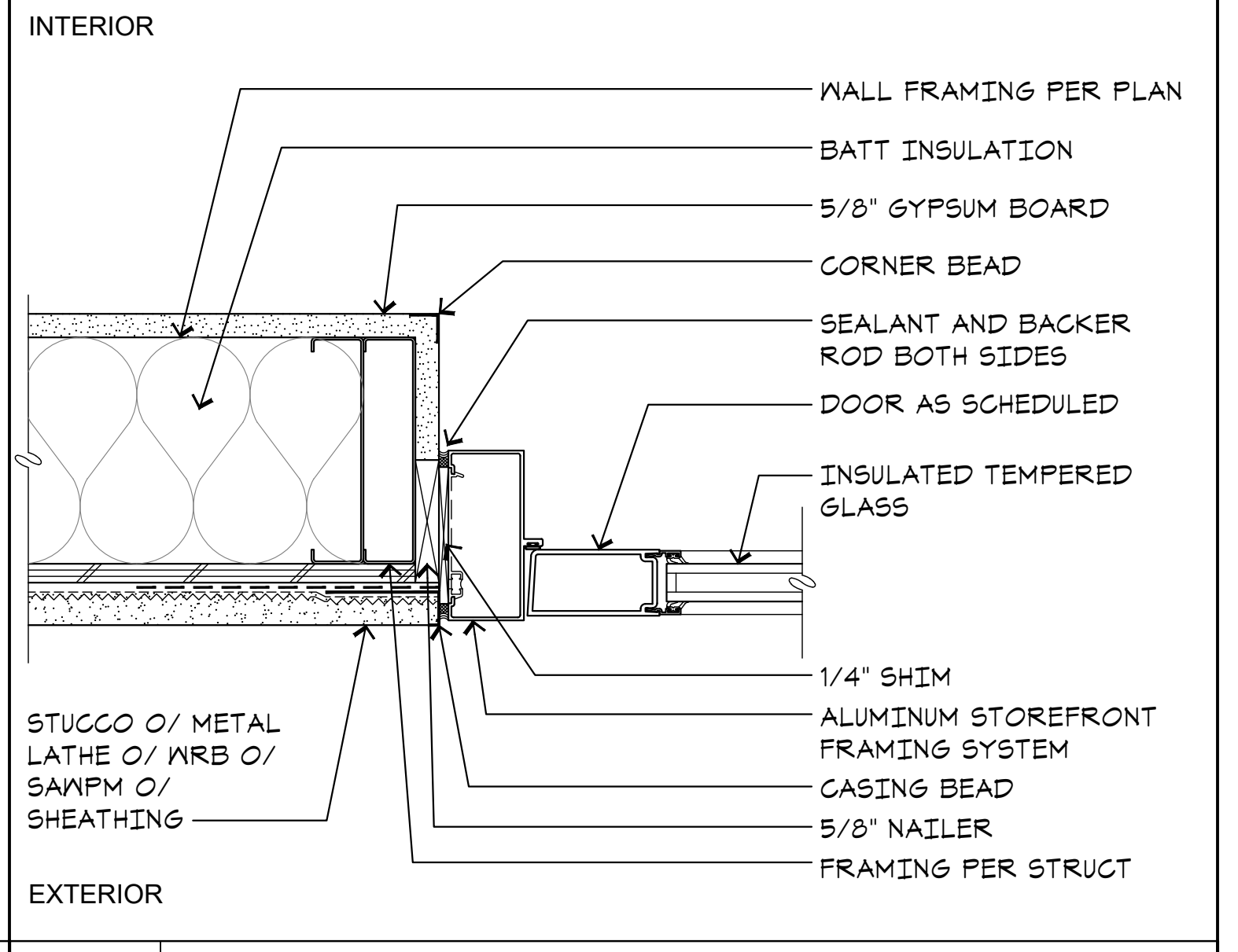
E1 SILL AT CURTAIN WALL
A4.3 SCALE: 3"=1'-0"



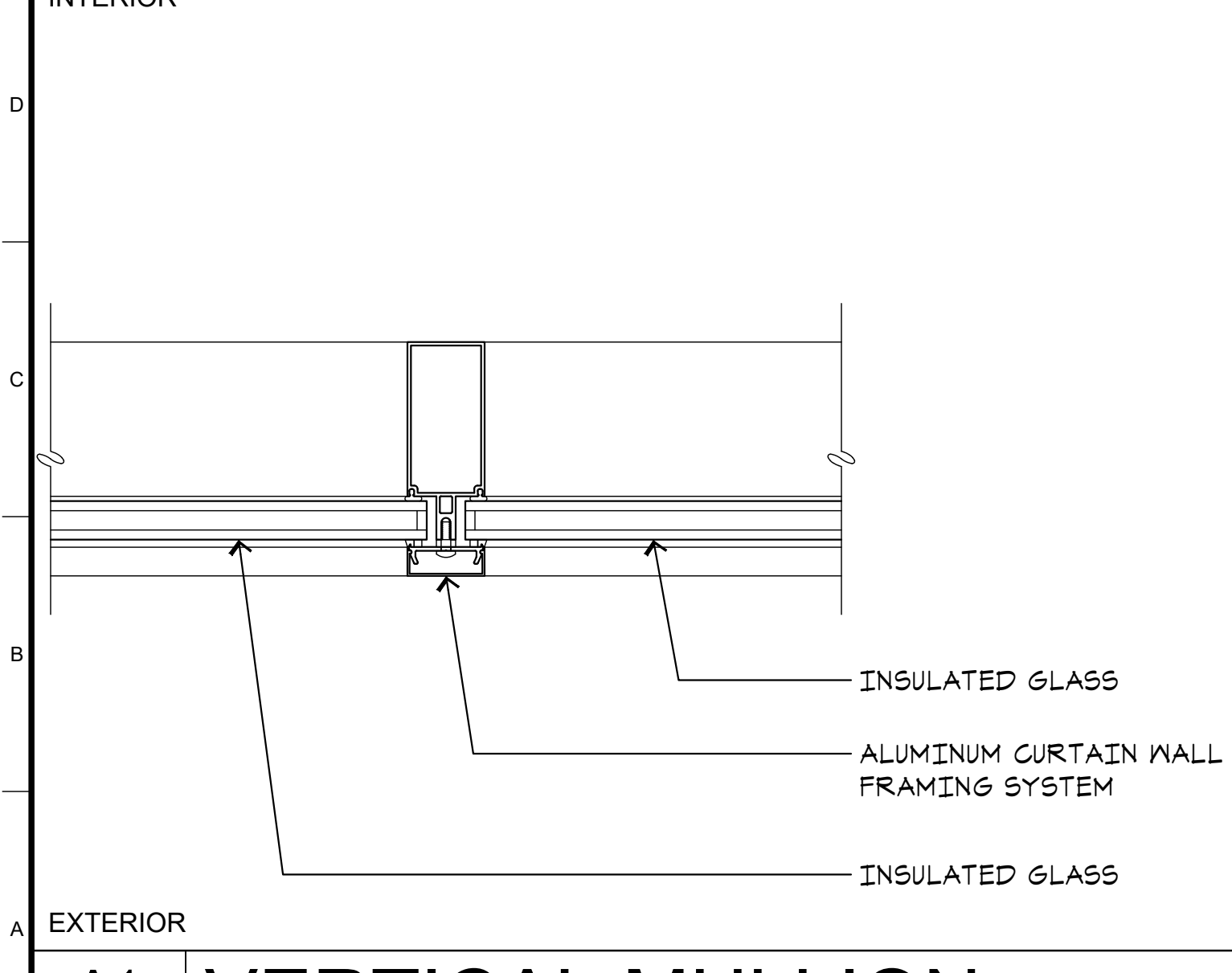
E5 SILL AT DOOR
A4.3 SCALE: 3"=1'-0"



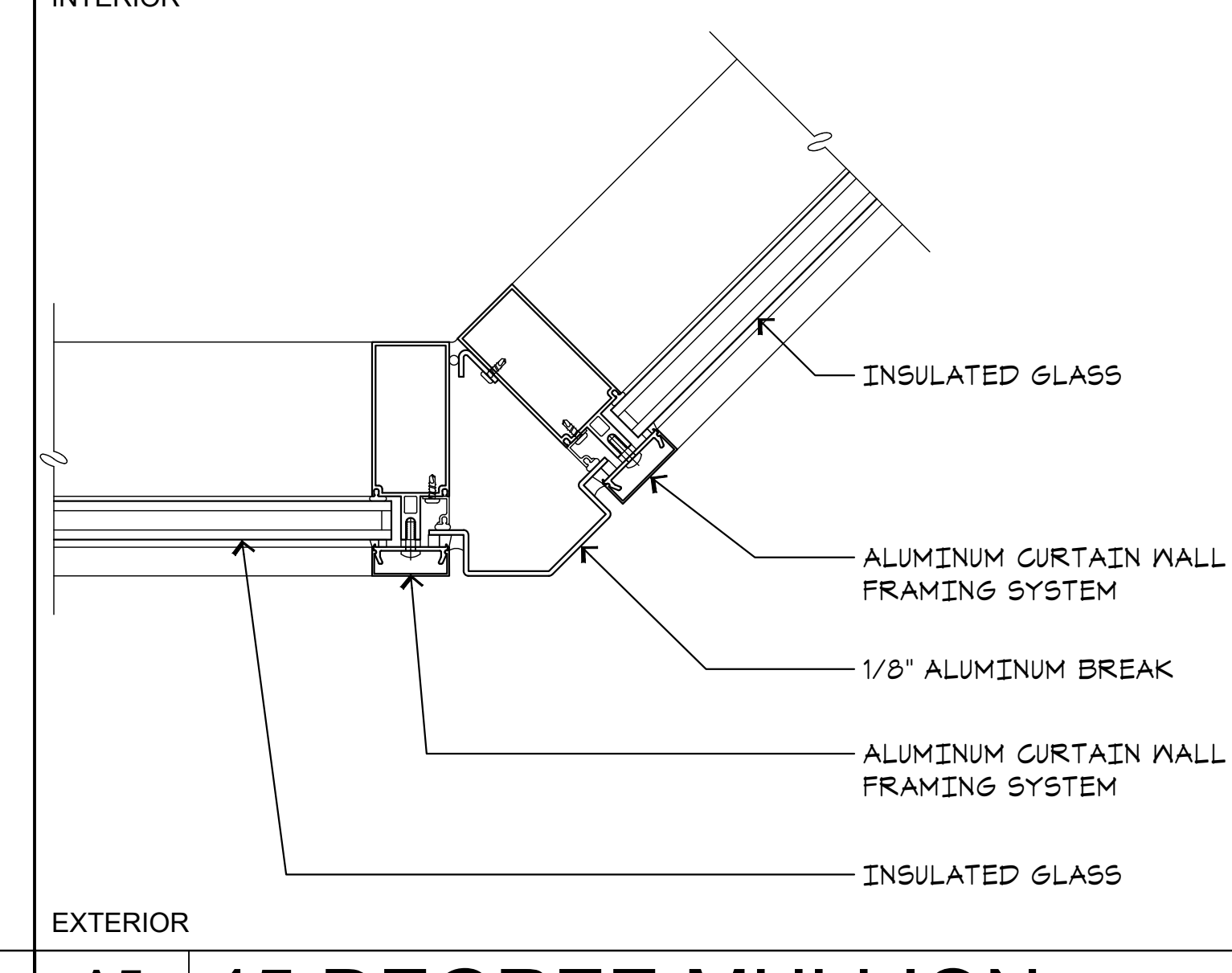
E9 JAMB AT EXTR SF
A4.3 SCALE: 3"=1'-0"



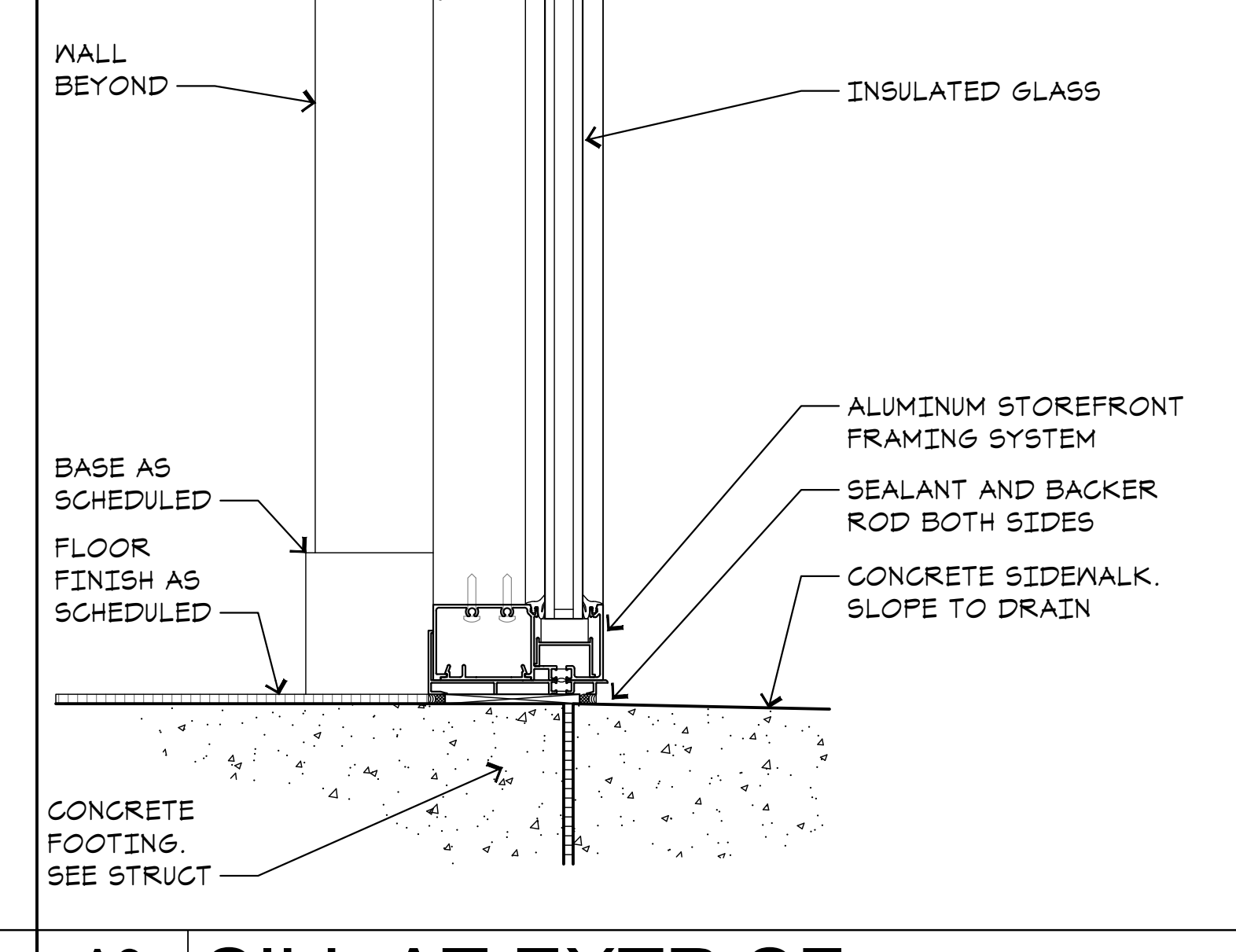
E13 JAMB AT EXTR SF ENTR
A4.3 SCALE: 3"=1'-0"



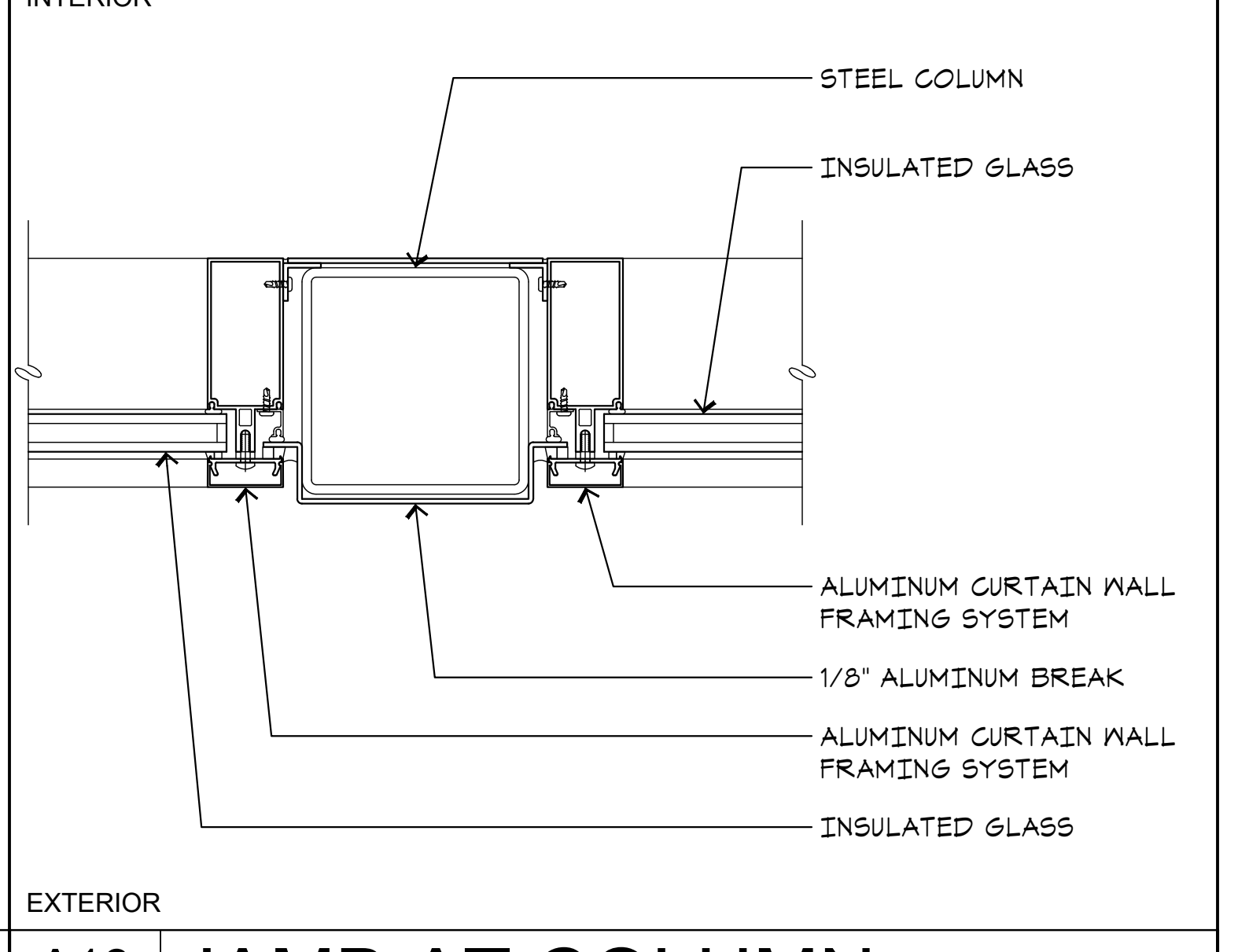
A1 VERTICAL MULLION
A4.3 SCALE: 3"=1'-0"



A5 45 DEGREE MULLION
A4.3 SCALE: 3"=1'-0"



A9 SILL AT EXTR SF
A4.3 SCALE: 3"=1'-0"



A13 JAMB AT COLUMN
A4.3 SCALE: 3"=1'-0"

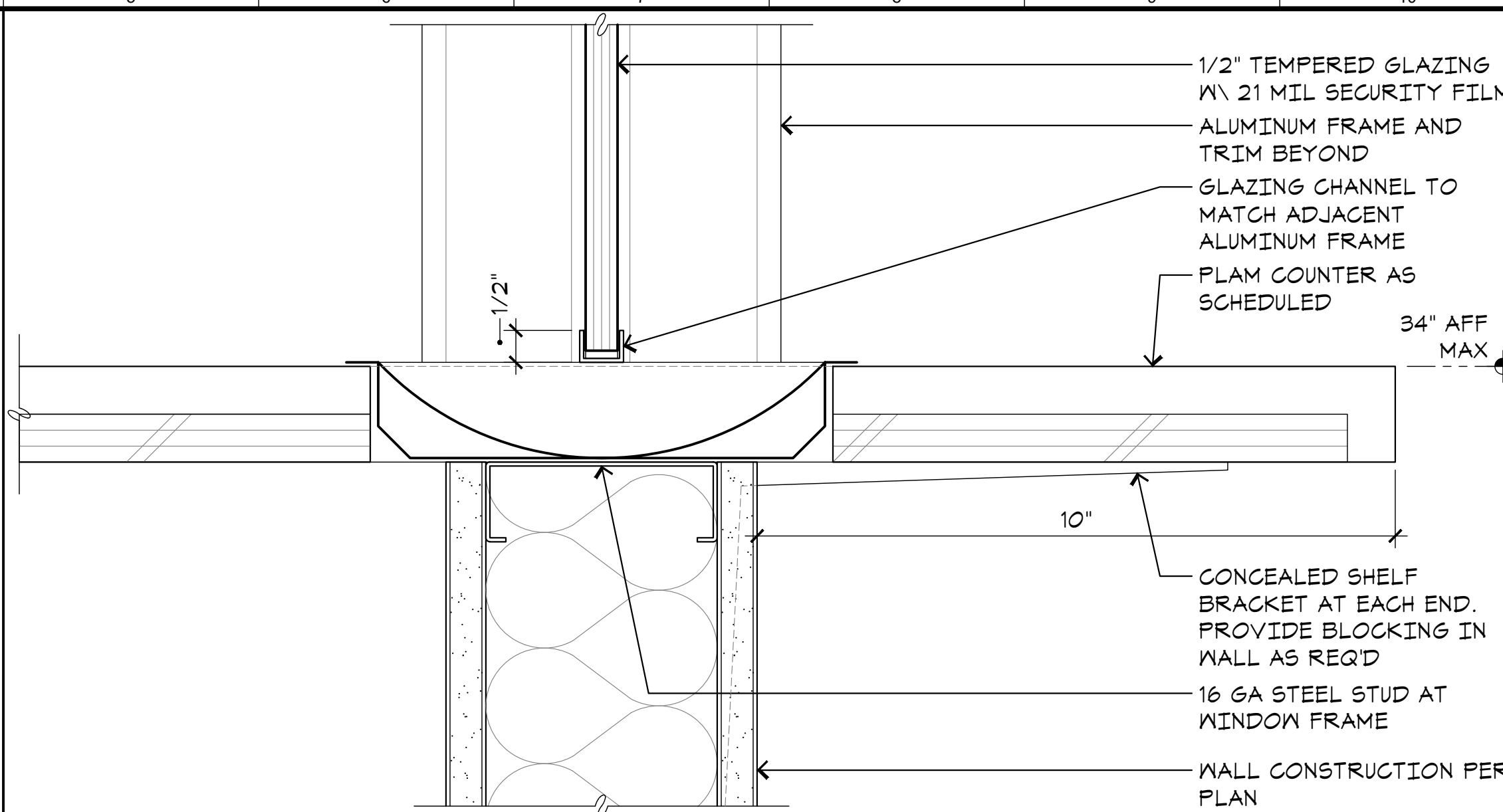


Project:
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 06.02.2020
PROJECT NO: 19003 / 19003
FILE NAME: 19003_A4-3_Door_Windo_Detl

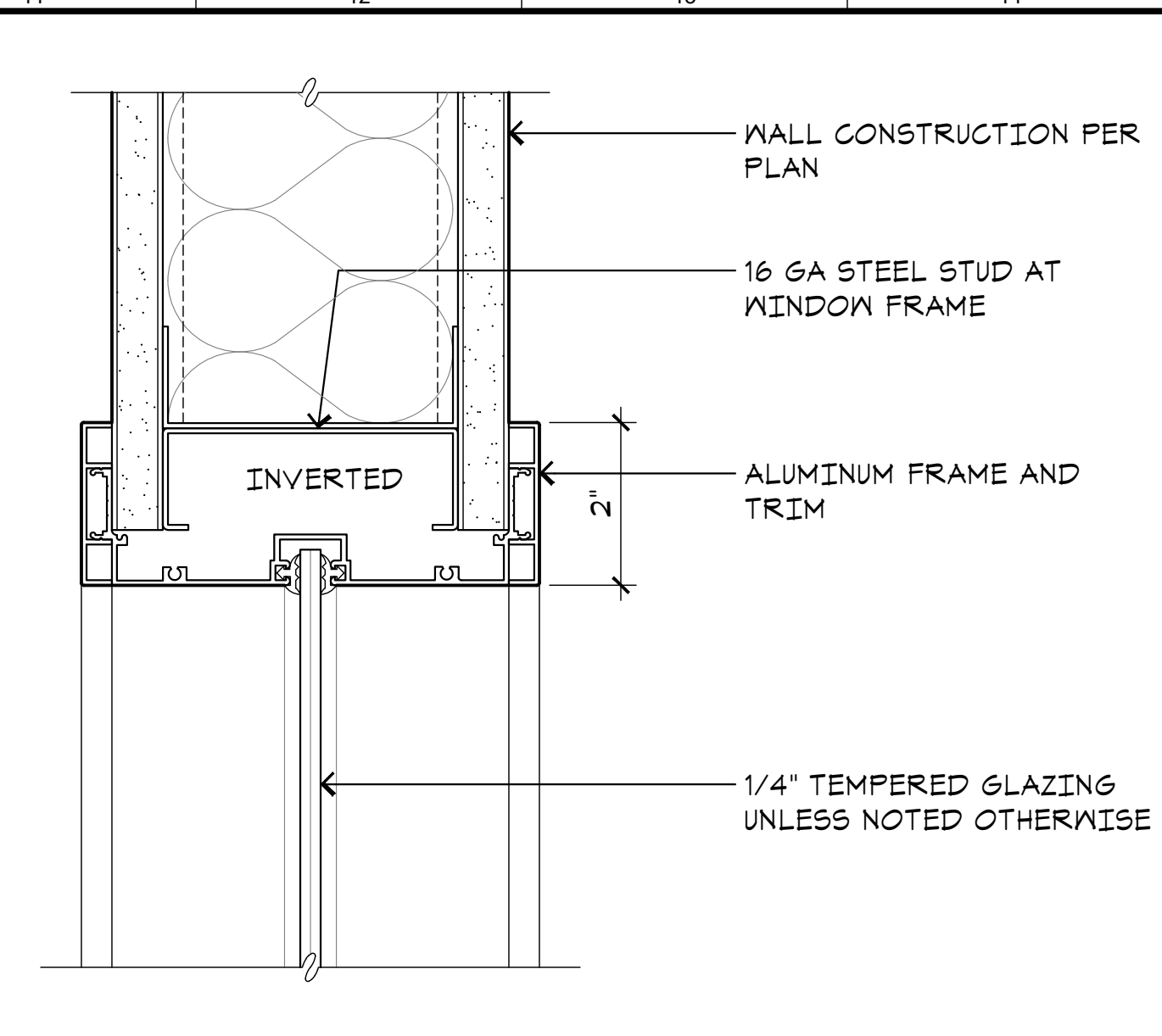
Sheet Content:
DOOR AND WINDOW DETAILS



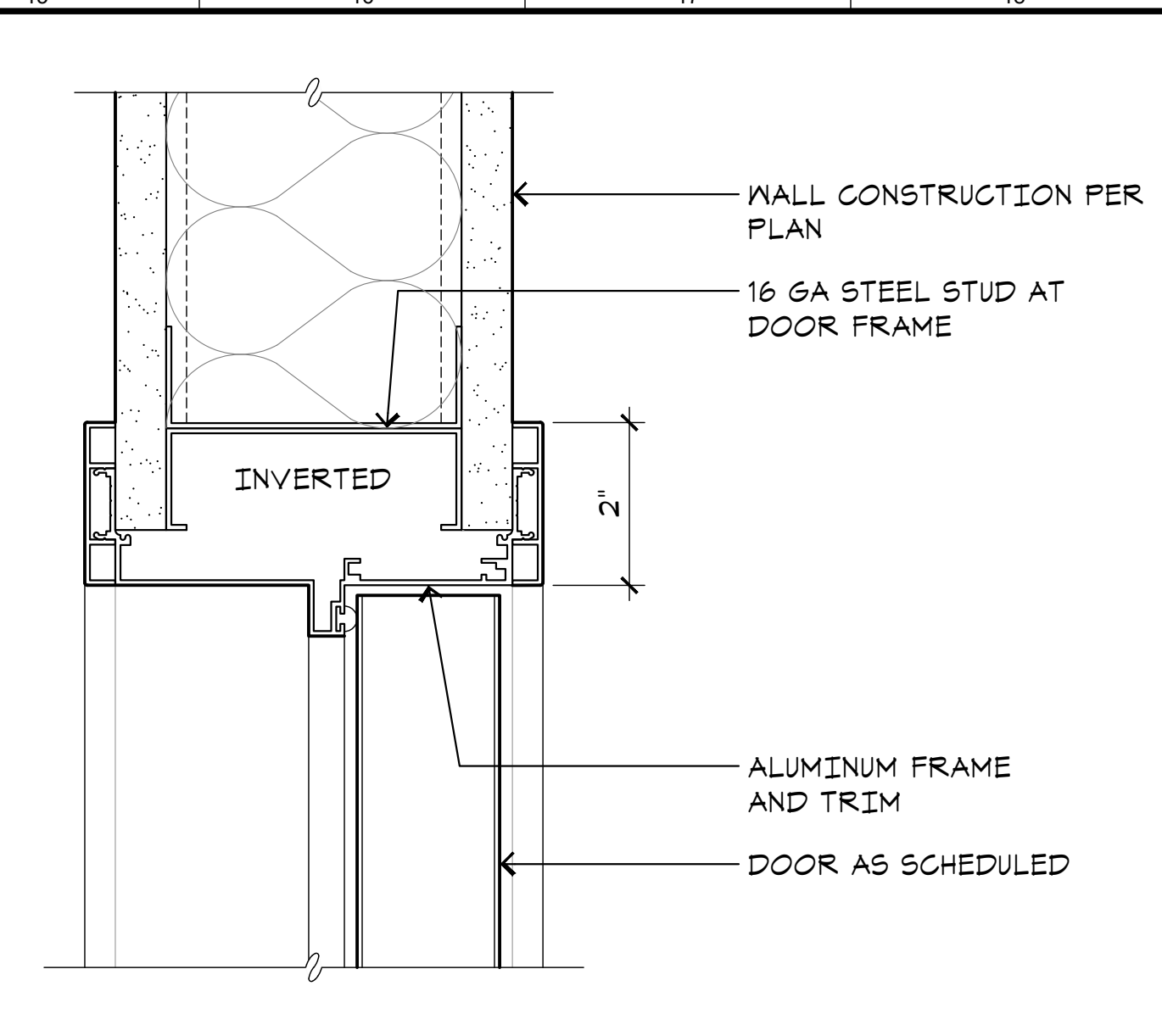
Sheet No.
A4.3
Drawn by: --- Plot date: 06.02.2020



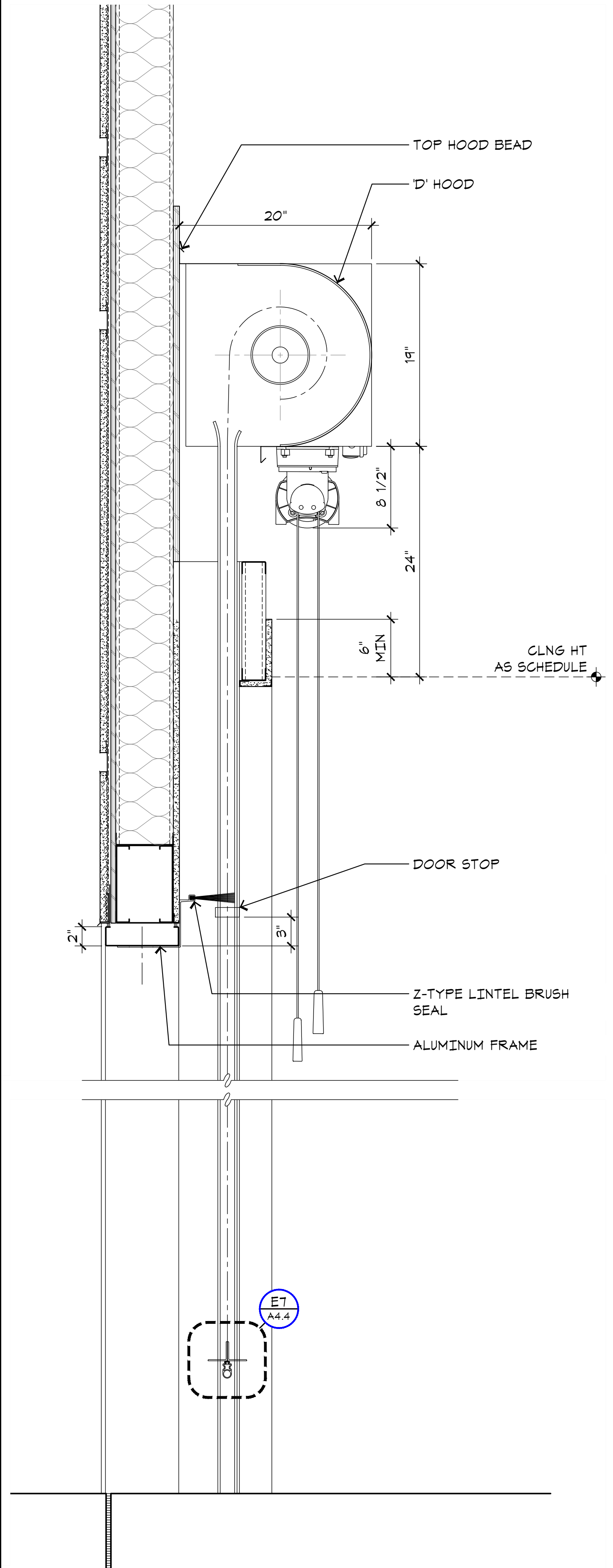
N5 SILL AT TRANSACTION WINDOW
A4.4 SCALE: 6"=1'-0"



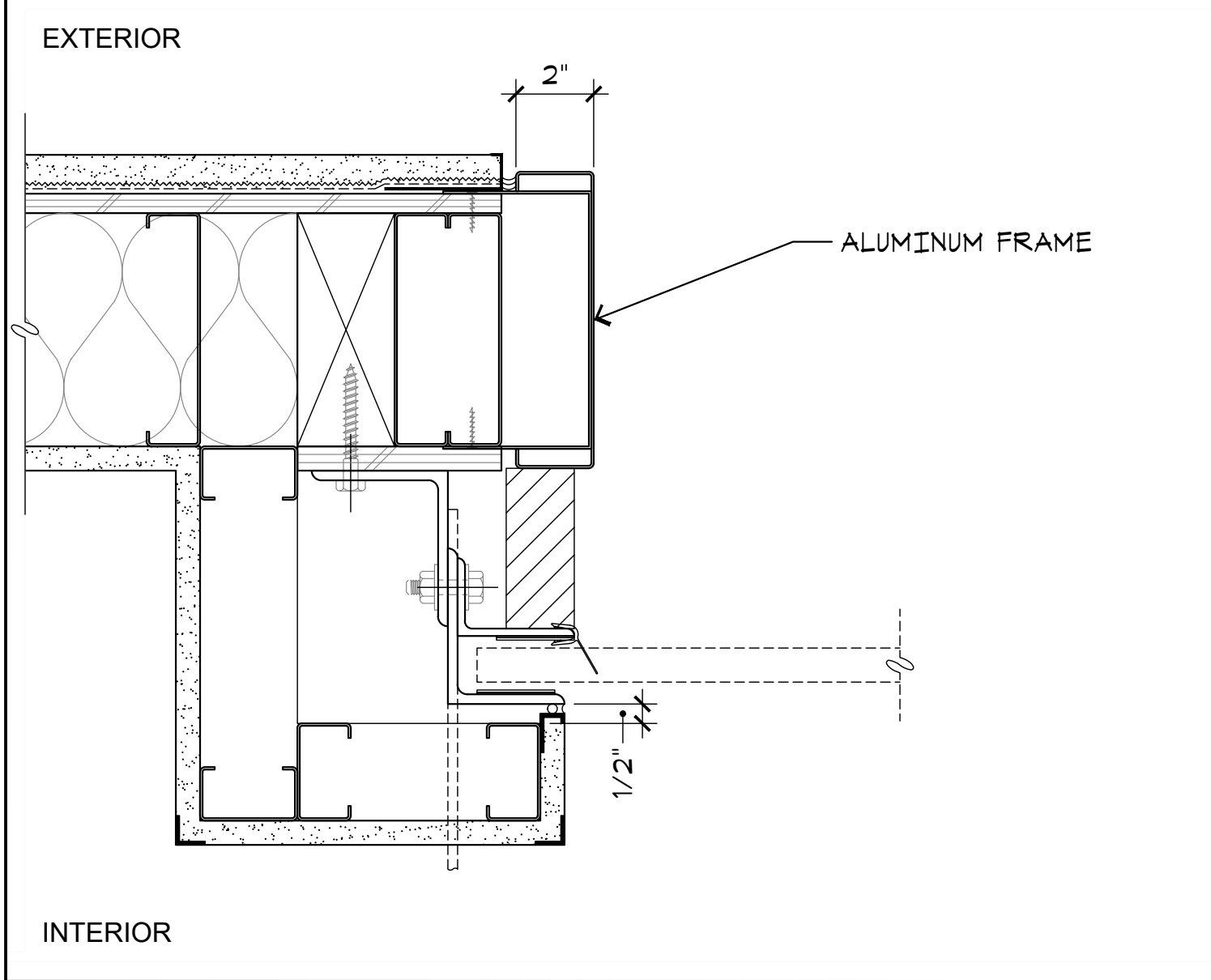
N11 HEAD AT WINDOW
A4.4 SCALE: 6"=1'-0"



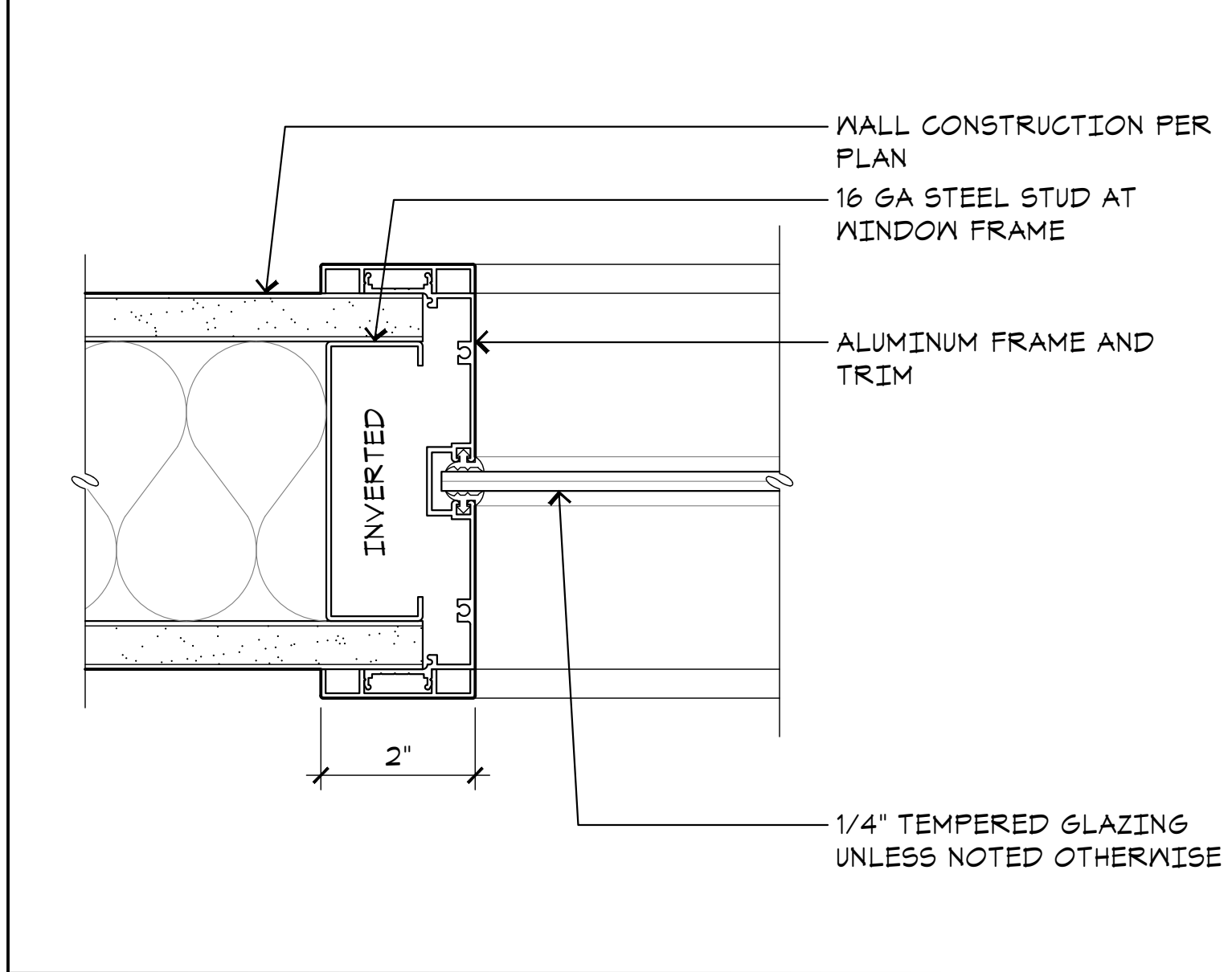
N15 HEAD AT DOOR
A4.4 SCALE: 6"=1'-0"



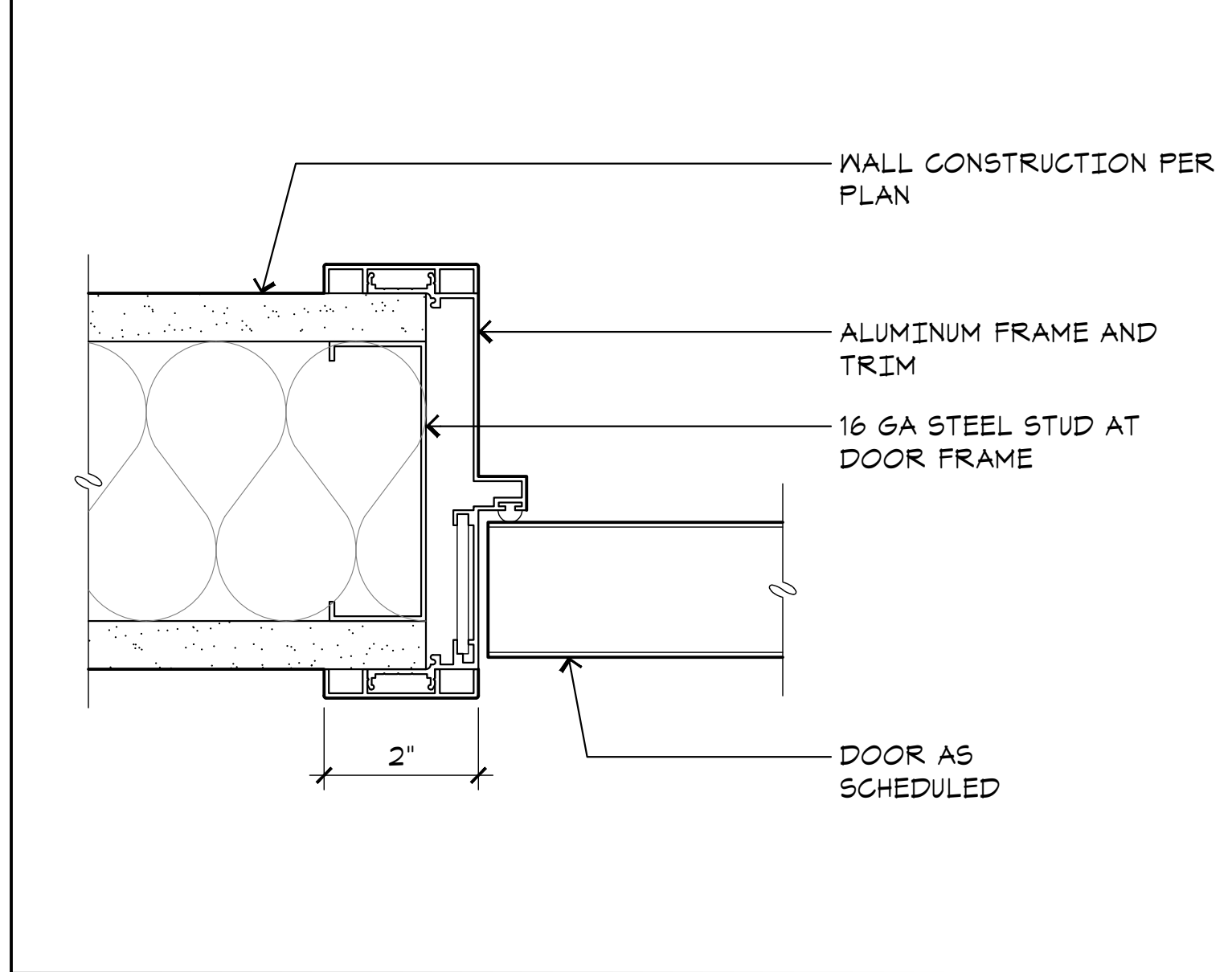
C3 SECTION AT OH DOOR
A4.4 SCALE: 1-1/2"=1'-0"



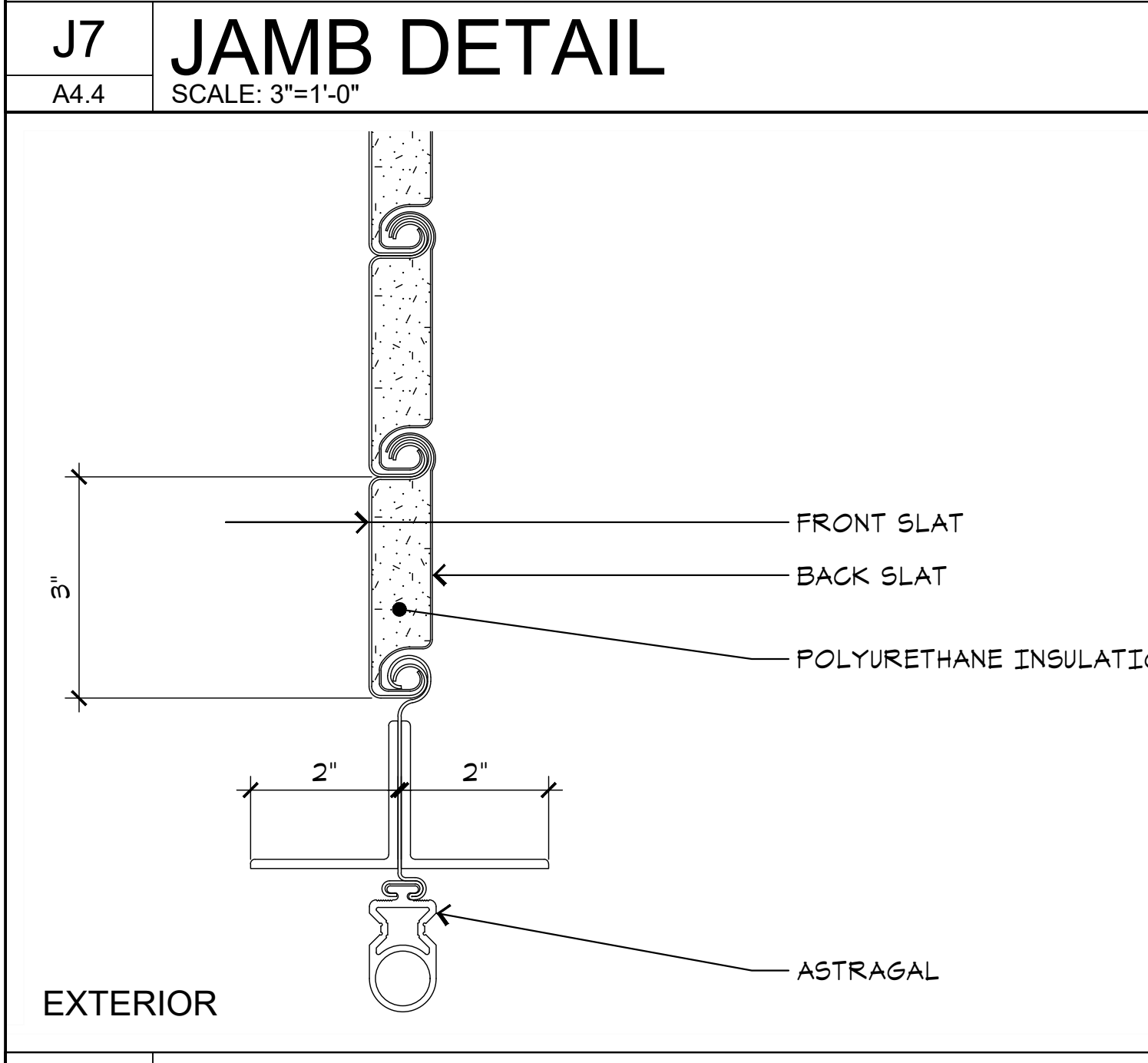
J7 JAMB DETAIL
A4.4 SCALE: 3"=1'-0"



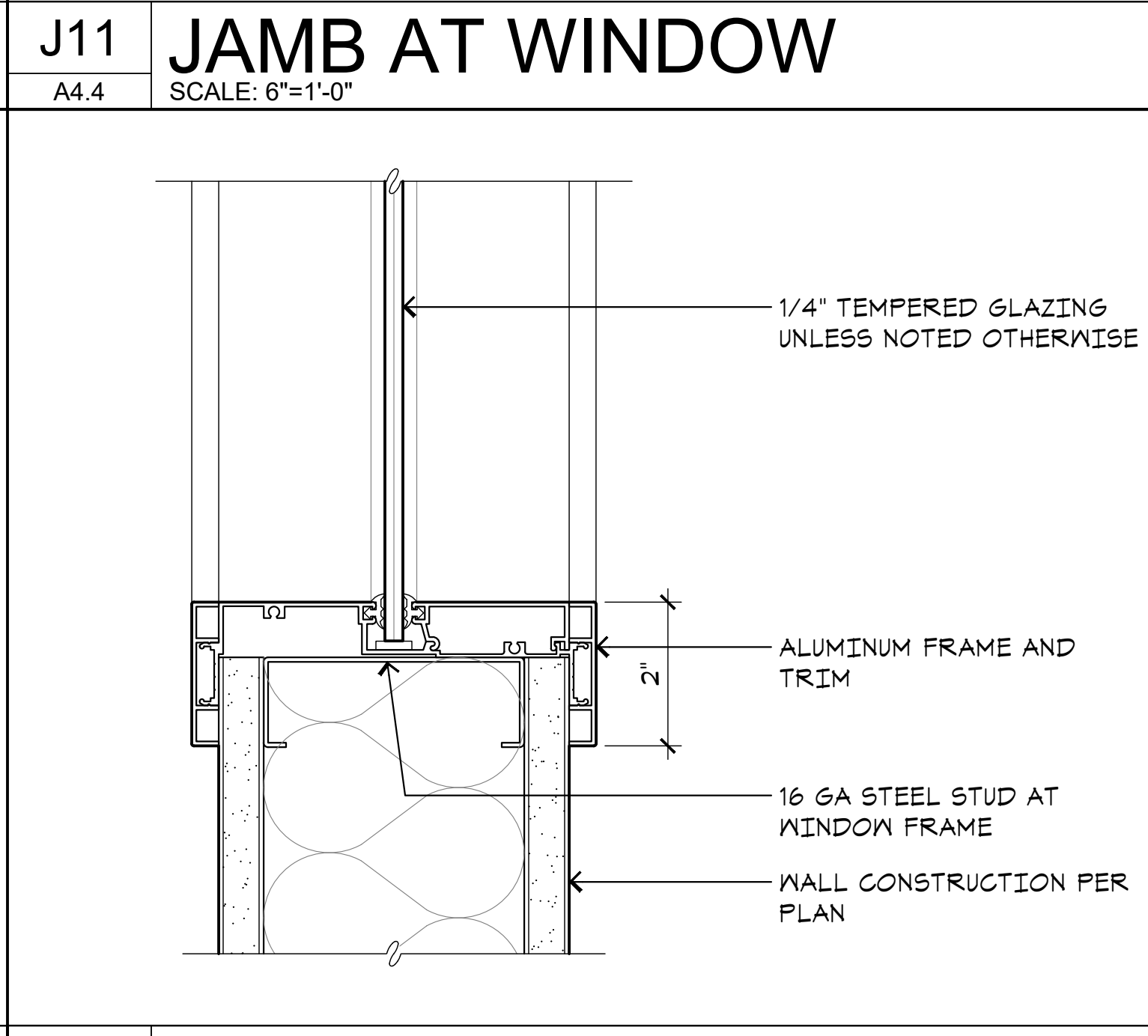
J11 JAMB AT WINDOW
A4.4 SCALE: 6"=1'-0"



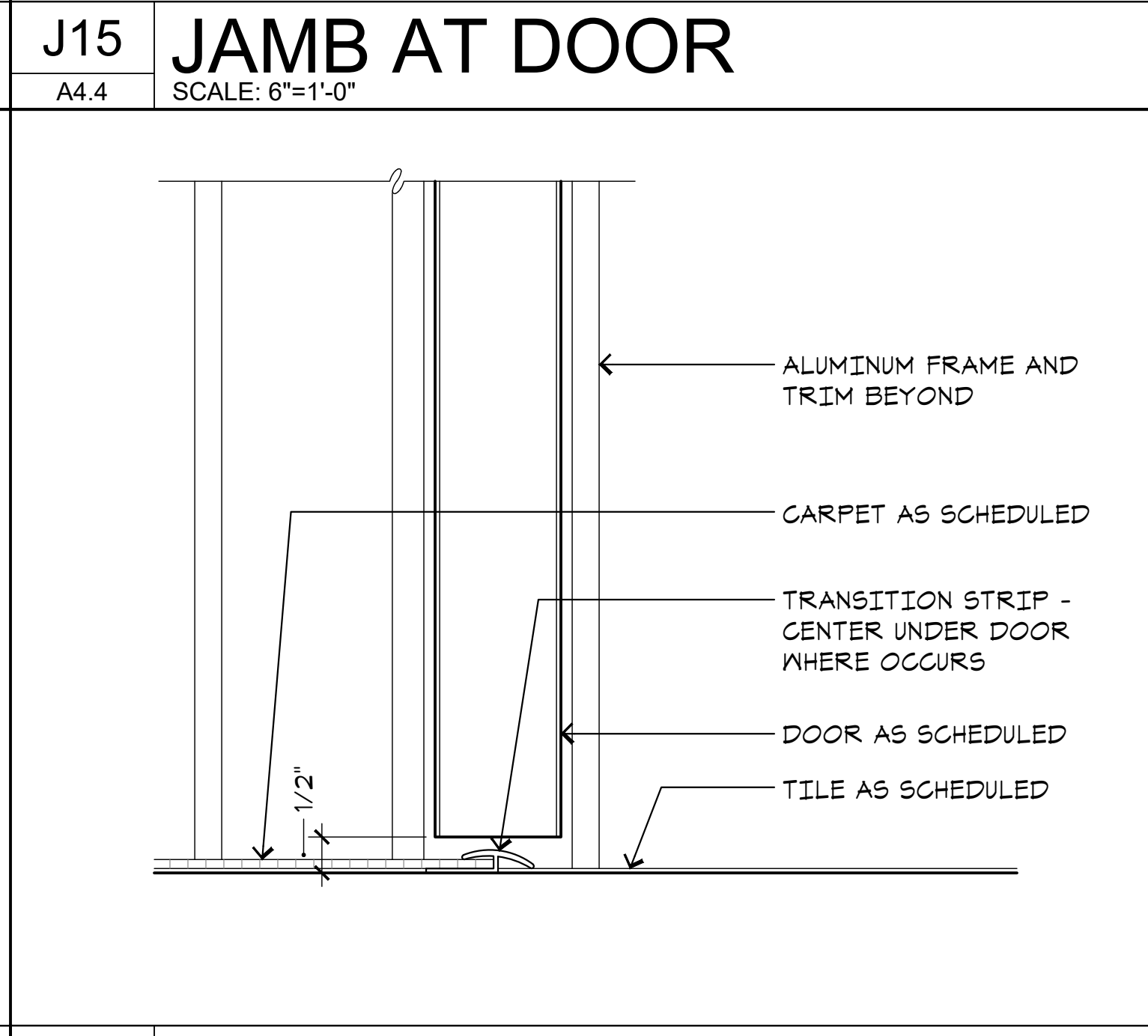
J15 JAMB AT DOOR
A4.4 SCALE: 6"=1'-0"



E7 BOTTOM BAR / SLAT DETL
A4.4 SCALE: 6"=1'-0"



E11 SILL AT WINDOW
A4.4 SCALE: 6"=1'-0"



E15 SILL AT DOOR
A4.4 SCALE: 6"=1'-0"

ARCHITECT:
Neil Roger Davidson, A.I.A., Architect
California Licensed Architect No. C-27818
Ren. 10-31-2019
Fresno County Department of Public Works
Capital Projects
2220 Tulare Street, Eighth Floor
Fresno, California 93721
C-27818
REN: 10-31-21
Telephone: (559) 600-4477
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Project:
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 06.02.2020
PROJECT NO: 19003 / 19003
FILE NAME: 19003_A4-4_Door_Wndo_Detl

Sheet Content:
DOOR AND WINDOW
DETAILS

Fresno County Department of
Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
A4.4

FINISH SPECIFICATIONS

Table with columns for category (e.g., FLOORS, BASE, WALLS, CEILING), item number, and description of finish specifications.

FINISH SCHEDULE

Table with columns for Room Number, Room Name, Floor Material/Finish, Base Material/Finish, Height, Walls Material/Finish, Wainscot Material/Finish, Ceiling 1 Material/Finish, and Notes.

GENERAL FINISH NOTES

- 1. SEE REFLECTED CEILING PLAN, SHEETS A2.1, A2.8, A2.8 AND A2.11 FOR CEILING HEIGHTS.
2. SEE TOILET ACCESSORIES SCHEDULE, SHEETS A5.3, A5.4 AND A5.5 FOR TOILET PARTITION SPECIFICATIONS, COLOR AND TEXTURE.

DESIGN STATUS:

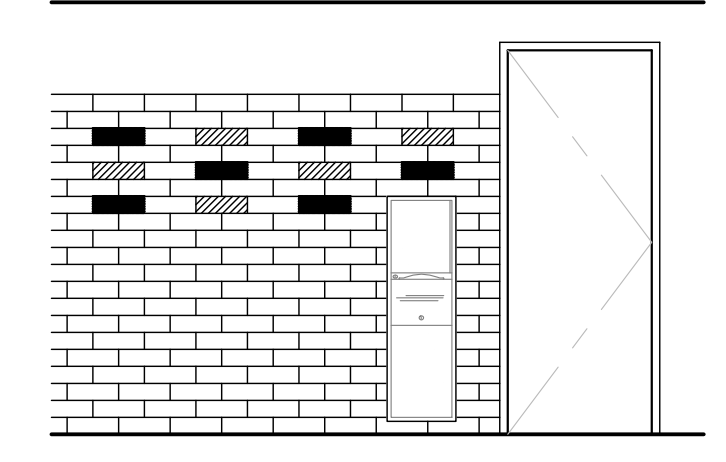
PRELIMINARY
EFFECTIVE DATE: 05.25.2020
IF THIS DRAWING IS MARKED AS PRELIMINARY, THE FINISH SPECIFICATIONS, SCHEDULES, PLANS AND NOTES ON THIS DRAWING SHALL BE USED FOR REVIEW, PLANNING AND PRICING PURPOSES ONLY.

FINISH SCHEDULE NOTES

- 1. SEE INTERIOR FINISH PLAN, SHEET A5.2 FOR ADD'L FINISH INFORMATION THIS ROOM.
2. PMT-3 TO BE INSTALLED ON BACK SHOWER WALL & SHOWER FLOOR. PTB-2 MOSAIC BASE TO BE INSTALLED ON BACK SHOWER WALL.
3. SEE WALL TILE PATTERN THIS SHEET.
4. STEEL COLUMN & BEAM STRUCTURE IN LOBBY TO BE PAINTED W/ PAINT 1. SEE COLOR SPECIFICATION THIS SHEET.
5. TILE CNT-2 TO BE USED AS BACK & SIDE SPLASH @ COUNTER.

FINISH ABBREVIATIONS

- ACT ... ACOUSTICAL CEILING TILE
BBT ... BIO-BASED TILE
CONG ... CONCRETE
CPT ... CARPET
CPB ... CARPET BASE
CTB ... CERAMIC TILE BASE
CTF ... CERAMIC TILE FLOOR
CTM ... CERAMIC TILE WALL / MAINSCOT
EXP ... EXPOSED
FF ... FACTORY FINISH
FRP ... FIBERGLASS REINF PANEL
GBC ... GYPSUM BOARD CEILING
GBN ... GYPSUM BOARD WALL
GTB ... GRANITE TILE BASE
GTF ... GRANITE TILE FLOOR
GTW ... GRANITE TILE WALL / MAINSCOT
ICB ... INTEGRAL COVE BASE
MCT ... MODULAR CARPET TILE
MPD ... METAL PANEL DECKING
PLA ... PLASTIC LAMINATE
PNT ... PAINT
PTB ... PORCELAIN TILE BASE
PTF ... PORCELAIN TILE FLOOR
PMT ... PORCELAIN MOSAIC TILE
RB ... TOPSET RUBBER BASE
RTF ... RUBBER TILE FLOORING
STB ... STONE TILE BASE
STF ... STONE TILE FLOOR
STW ... STONE TILE WALL / MAINSCOT
STN ... STAIN
SV ... SHEET VINYL
VCT ... VINYL COMPOSITION TILE
VMC ... VINYL WALL COVERING
WD ... WOOD



WALL TILE PATTERN NOT TO SCALE

Professional seal and contact information for ARCHITECT: Neal Roger Davidson, A.I.A., Architect, California Licensed Architect No. C-27818.

Project: Sheriff Area 2 Sub-Station
1128 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 06.02.2020
PROJECT NO: 190293 / 19003
FILE NAME: 19003_A5-1_Intr_Fin_Sched

Sheet Content: INTERIOR FINISH SCHEDULE

Fresno County Department of Public Works and Planning Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No. A5.1

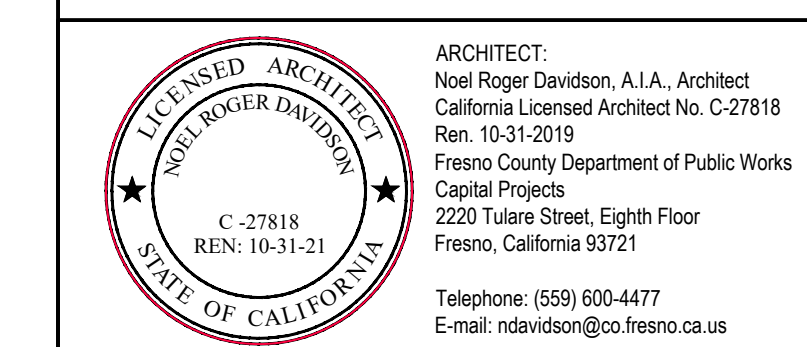
DESIGN STATUS:
PRELIMINARY

EFFECTIVE DATE:
05.28.2020

IF THIS DRAWING IS MARKED AS PRELIMINARY, THE FINISH SPECIFICATIONS, SCHEDULES, PLANS AND NOTES ON THIS DRAWING SHALL BE USED FOR REVIEW, PLANNING AND PRICING PURPOSES ONLY. NO ORDERING OF MATERIALS SHALL OCCUR UNTIL AFTER THE CLIENT HAS GIVEN THEIR APPROVAL AND **REDT ARCHITECTURE** HAS ISSUED THIS DRAWING MARKED AS FINAL.

FINISH ABBREVIATIONS

- ACT ... ACOUSTICAL CEILING TILE
- BBT ... BIO-BASED TILE
- CONC ... CONCRETE
- CPT ... CARPET
- CPB ... CARPET BASE
- CTB ... CERAMIC TILE BASE
- CTF ... CERAMIC TILE FLOOR
- CTW ... CERAMIC TILE WALL / MAINSCOT
- EXP ... EXPOSED
- FF ... FACTORY FINISH
- FRP ... FIBERGLASS REINF PANEL
- GBC ... GYPSUM BOARD CEILING
- GBW ... GYPSUM BOARD WALL
- GTB ... GRANITE TILE BASE
- GTK ... GRANITE TILE FLOOR
- GTW ... GRANITE TILE WALL / MAINSCOT
- ICB ... INTEGRAL COVE BASE
- MCT ... MODULAR CARPET TILE
- MPD ... METAL PANEL DECKING
- PLA ... PLASTIC LAMINATE
- PNT ... PAINT
- PTB ... PORCELAIN TILE BASE
- PTF ... PORCELAIN TILE FLOOR
- PMT ... PORCELAIN MOSAIC TILE
- RB ... TOPSET RUBBER BASE
- RTF ... RUBBER TILE FLOORING
- STB ... STONE TILE BASE
- STF ... STONE TILE FLOOR
- STW ... STONE TILE WALL / MAINSCOT
- STN ... STAIN
- SV ... SHEET VINYL
- VCT ... VINYL COMPOSITION TILE
- VWC ... VINYL WALL COVERING
- WD ... WOOD



Project:
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
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Sheet Content:
INTERIOR FINISH PLAN

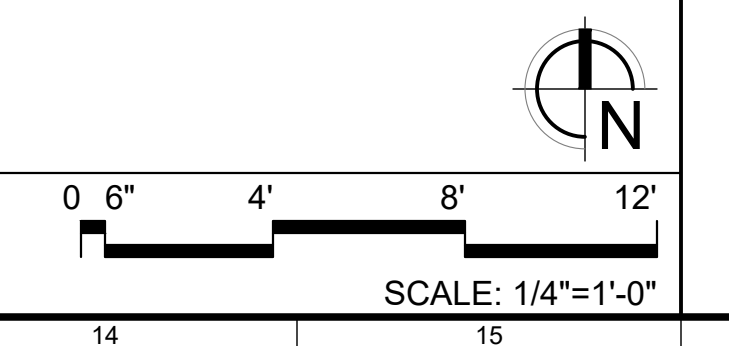


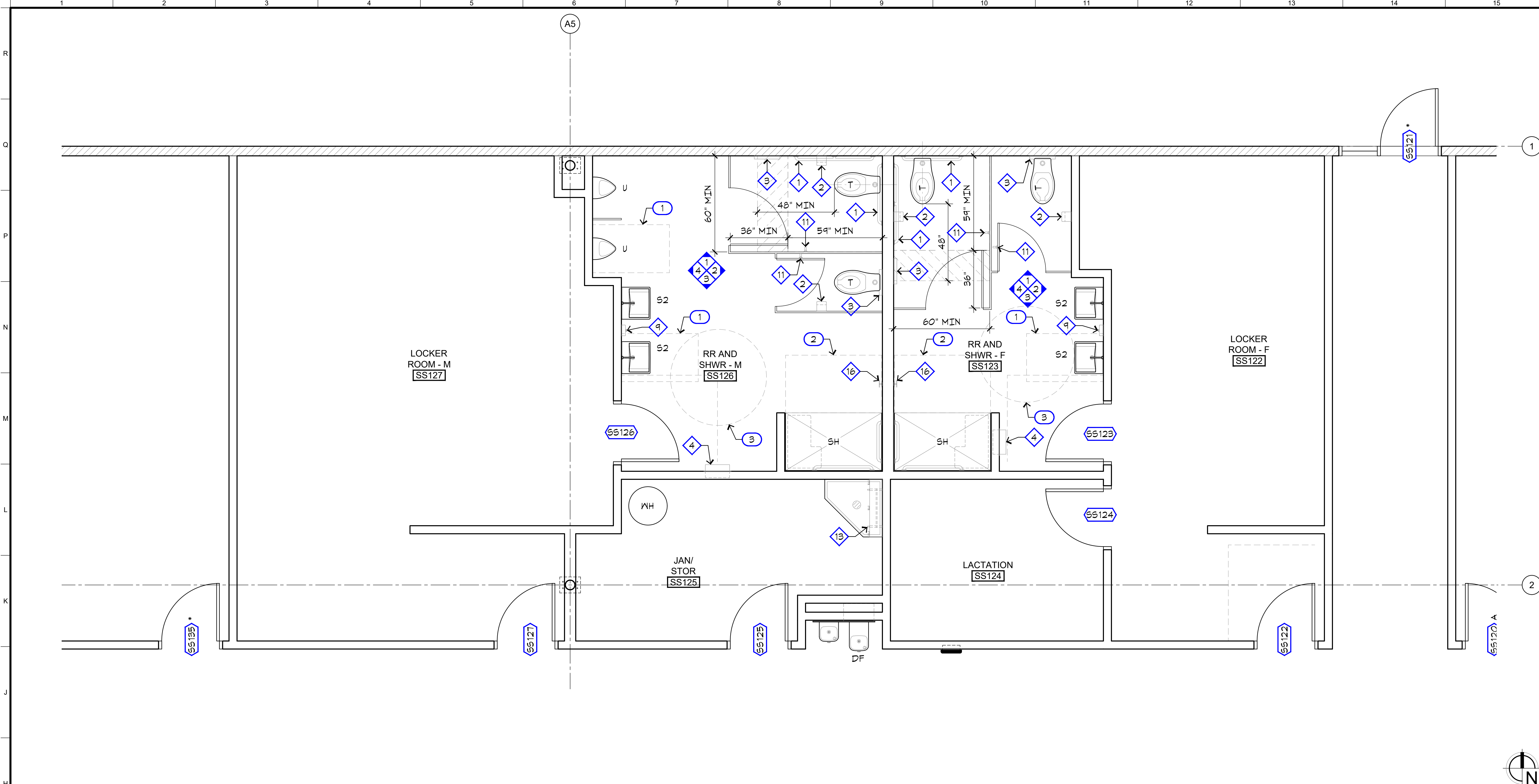
Sheet No.
A5.2



A1 INTERIOR FINISH PLAN

A5.2





TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION (SEE ALSO SPECIFICATIONS SECTION 102800)
1	GRAB BAR (LENGTH AS SHOWN); BOBRICK B-6806
2	TOILET TISSUE DISPENSER, SURFACE-MOUNTED MULTI-ROLL; BOBRICK B-4288
3	TOILET SEAT COVER DISPENSER, SURFACE-MOUNTED; BOBRICK B-4221
4	PAPER TOWEL DISPENSER / WASTE RECEPTACLE, RECESSED; BOBRICK B-43944
5	PAPER TOWEL DISPENSER / WASTE RECEPTACLE, RECESSED; BOBRICK B-4369
6	PAPER TOWEL DISPENSER, SURFACE-MOUNTED; BOBRICK B-4262
7	MIRROR, PIVOTING FRAMED LARGE RECTANGLE (BEVELED); GATCO 4849F5
8	SOAP DISPENSER, OPTIMA® DECK-MOUNTED; SLOAN ESD-200
9	SOAP DISPENSER, SURFACE-MOUNTED; BOBRICK B-4112
10	BABY CHANGING STATION; GAMCO BSC-1 OR 2
11	HOOK, GAP AND COAT; BOBRICK B-682
12	UNDER LAVATORY GUARD; TRUEBRO LAV SHIELDS
13	SHelf WITH MOP AND BROOM HOLDERS AND RAG HOOKS; BOBRICK B-224 x 36
14	SHOWER CURTAIN ROD, HEAVY-DUTY; BOBRICK B-6107
15	SHOWER SEAT, FOLDING; BOBRICK B-517 OR B-518
16	HOOK, DOUBLE ROBE; BOBRICK B-672

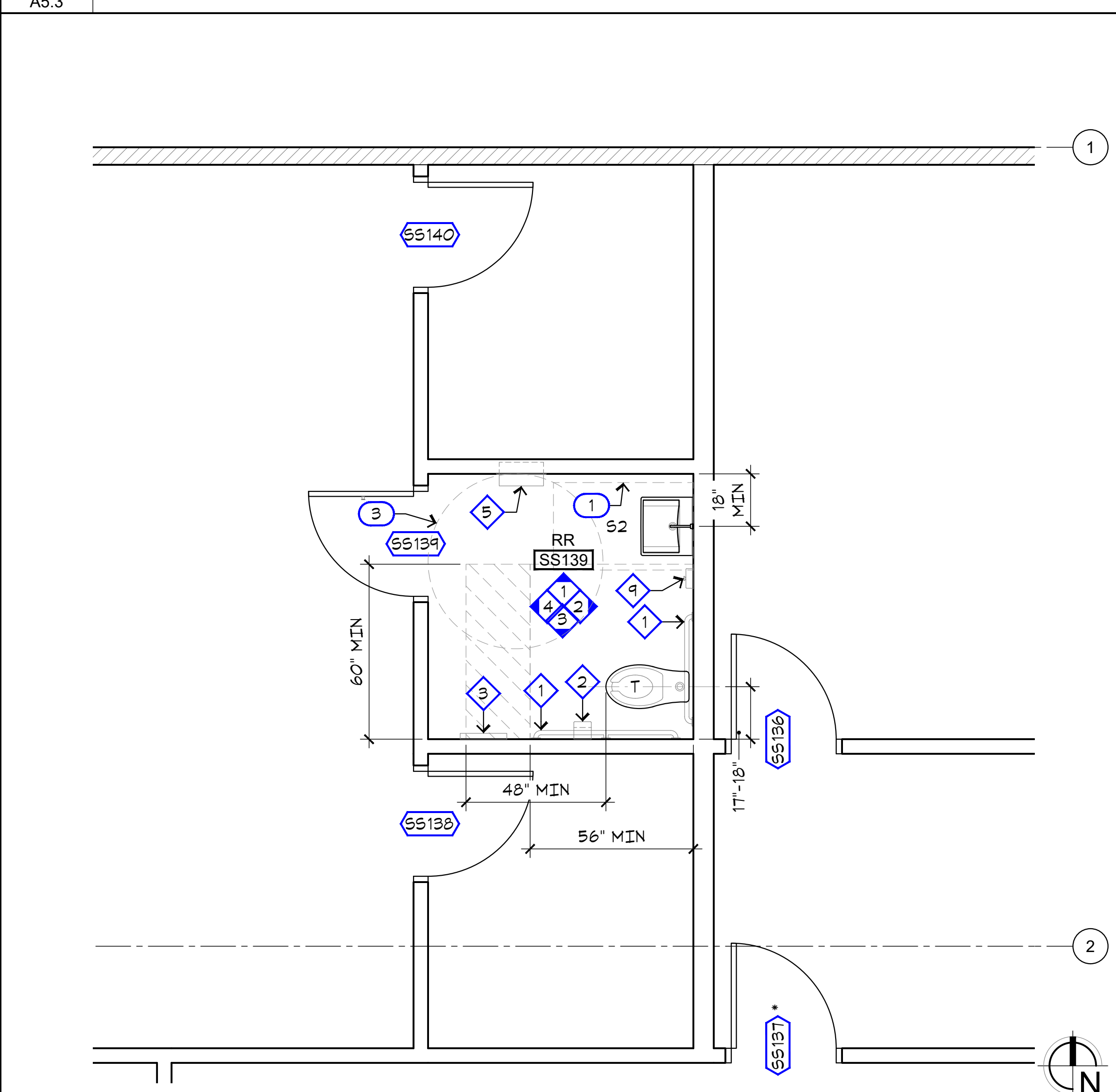
GENERAL NOTES

1. SEE ALSO 'EQPM / FIXT LEGEND', SHEETS A2.2 THRU A2.6.

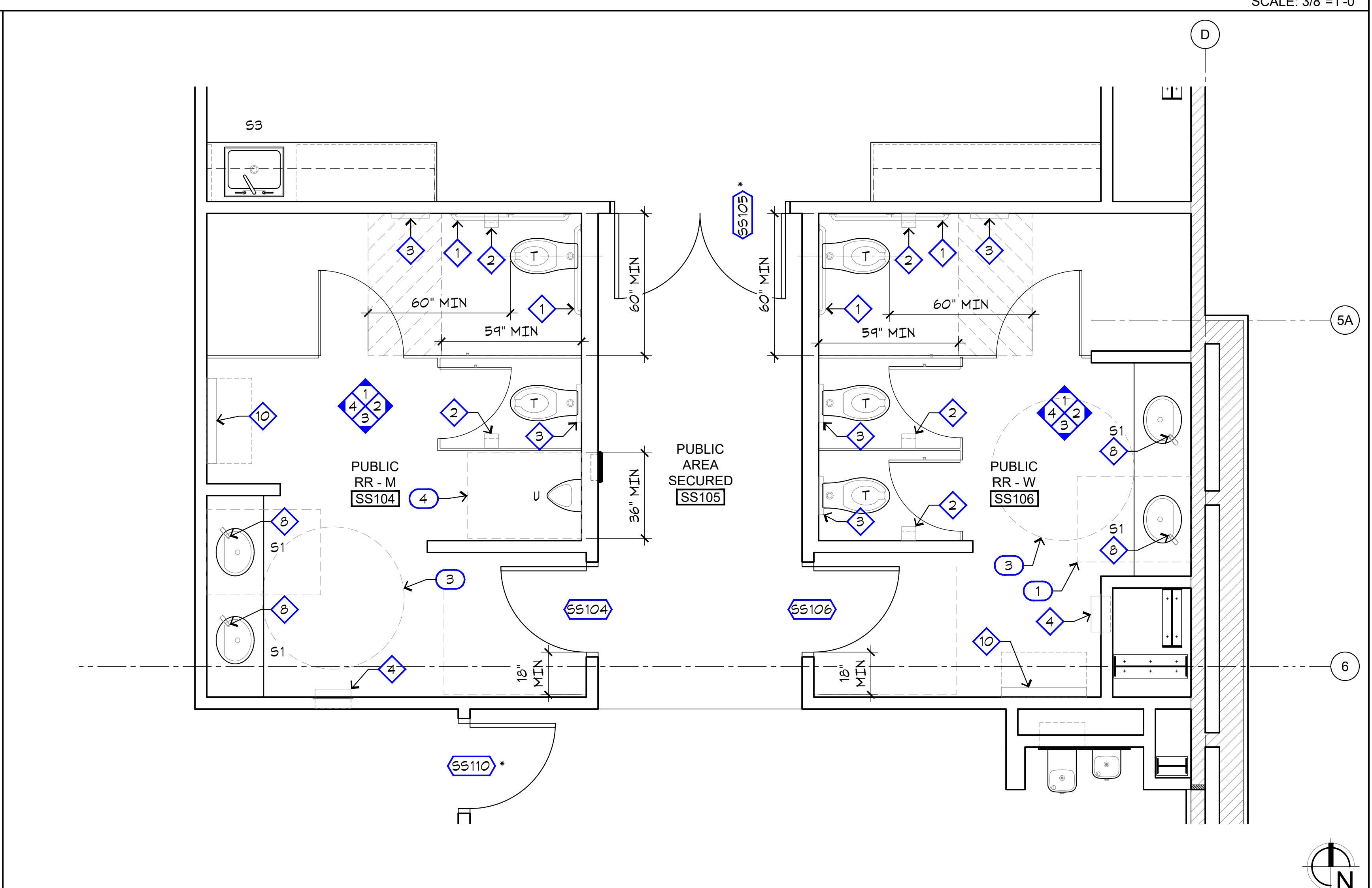
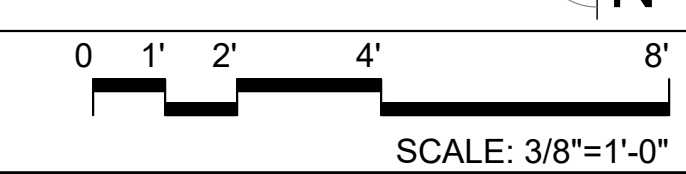
KEYNOTES LEGEND

1	MINIMUM 48"x30" CLEAR FLOOR SPACE
2	MINIMUM 60"x36" CLEAR FLOOR SPACE
3	MINIMUM 60" DIAMETER CIRCULAR TURNING SPACE
4	MINIMUM 48"x36" CLEAR FLOOR SPACE

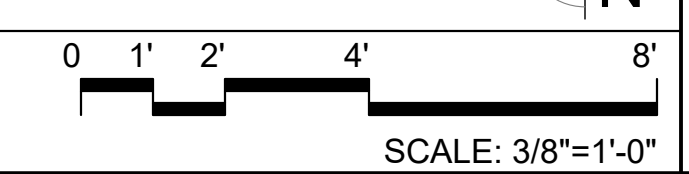
H1 ENLARGED PLAN



A1 ENLARGED PLAN



A7 ENLARGED PLAN



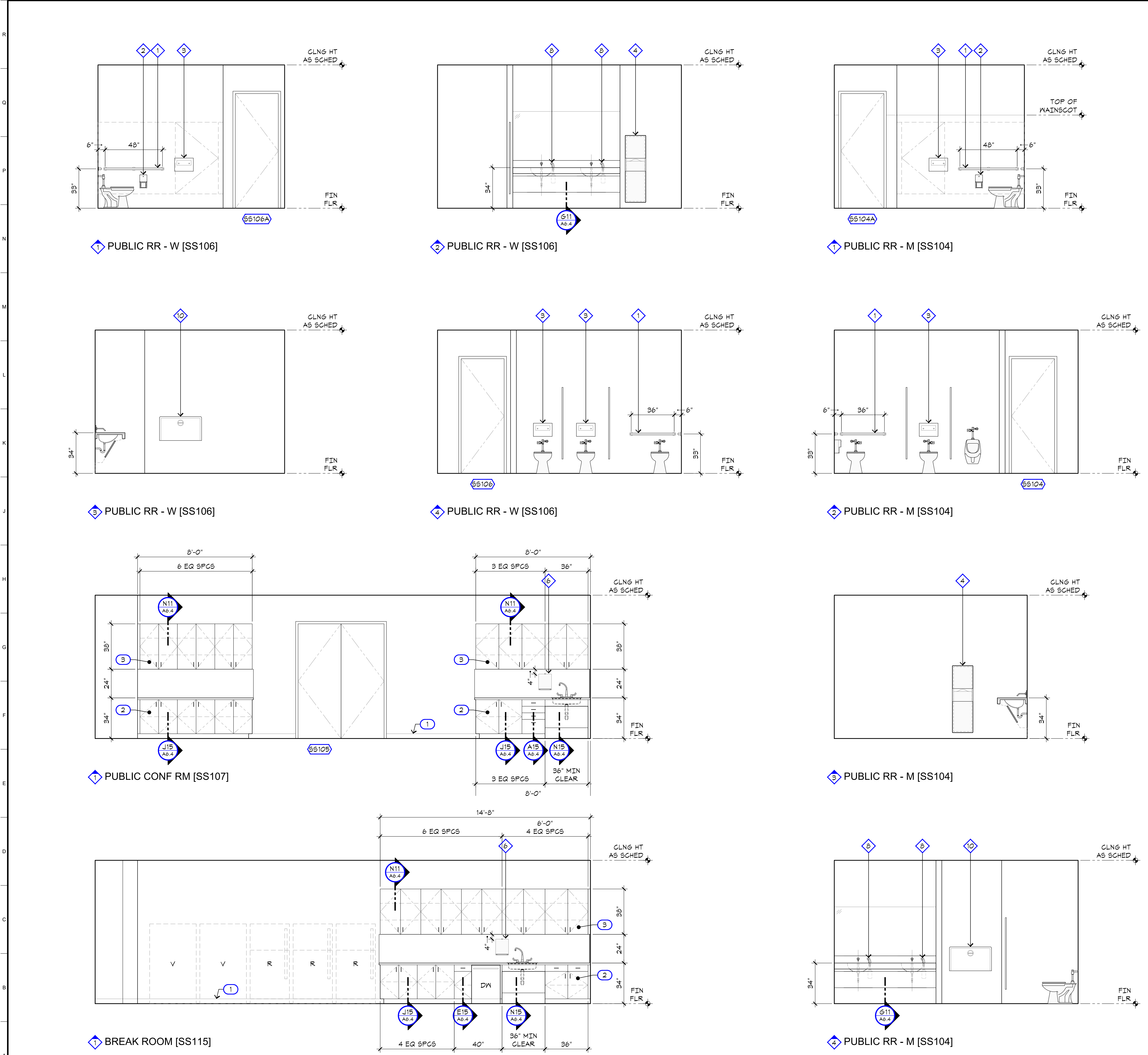
Project:
Sheriff Area 2 Sub-Station
1128 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 06.02.2020
PROJECT NO: 19003 / 19003
FILE NAME: 19003_A5-3_Enlarged_Plans

Sheet Content:
ENLARGED PLANS



Sheet No.
A5.3

Drawn by: --- Plot date: 06.02.2020



TOILET ACCESSORY SCHEDULE	
MARK	DESCRIPTION (SEE ALSO SPECIFICATIONS SECTION 102800)
1	GRAB BAR (LENGTH AS SHOWN); BOBRICK B-6806
2	TOILET TISSUE DISPENSER, SURFACE-MOUNTED MULTI-ROLL; BOBRICK B-4288
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5	PAPER TOWEL DISPENSER / WASTE RECEPTACLE, RECESSED; BOBRICK B-4369
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7	MIRROR, PIVOTING FRAMED LARGE RECTANGLE (BEVELED); GATCO 4849F5
8	SOAP DISPENSER, OPTIMA® DECK-MOUNTED; SLOAN ESD-200
9	SOAP DISPENSER, SURFACE-MOUNTED; BOBRICK B-4112
10	BABY CHANGING STATION; GAMCO BSC-1 OR 2
11	HOOK, GAP AND COAT; BOBRICK B-682
12	UNDER LAVATORY GUARD; TRUEBRO LAV SHIELDS
13	SHELF WITH MOP AND BROOM HOLDERS AND RAG HOOKS; BOBRICK B-224 x 36
14	SHOWER CURTAIN ROD, HEAVY-DUTY; BOBRICK B-6107
15	SHOWER SEAT, FOLDING; BOBRICK B-511 OR B-518
16	HOOK, DOUBLE ROBE; BOBRICK B-672

GENERAL NOTES

1. SEE ALSO 'EQPM / FIXT LEGEND', SHEETS A2.2 THRU A2.6.

KEYNOTES LEGEND

NOTE: SOME KEYNOTES MAY NOT APPEAR ON THIS SHEET.

1 BASE AS SCHEDULED

2 24" DEEP PLAM BASE CABINET W/ SOLID SURFACE COUNTER TOP, 18" BACK SPLASH, AND 4" TOE KICK.

3 14" DEEP PLAM UPPER CABINETS W/ ADJUSTABLE SHELVING

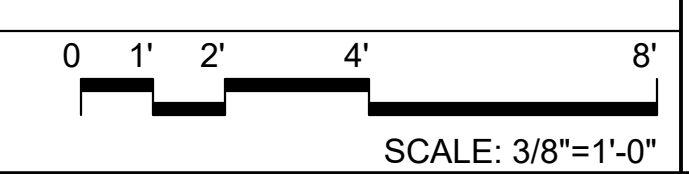


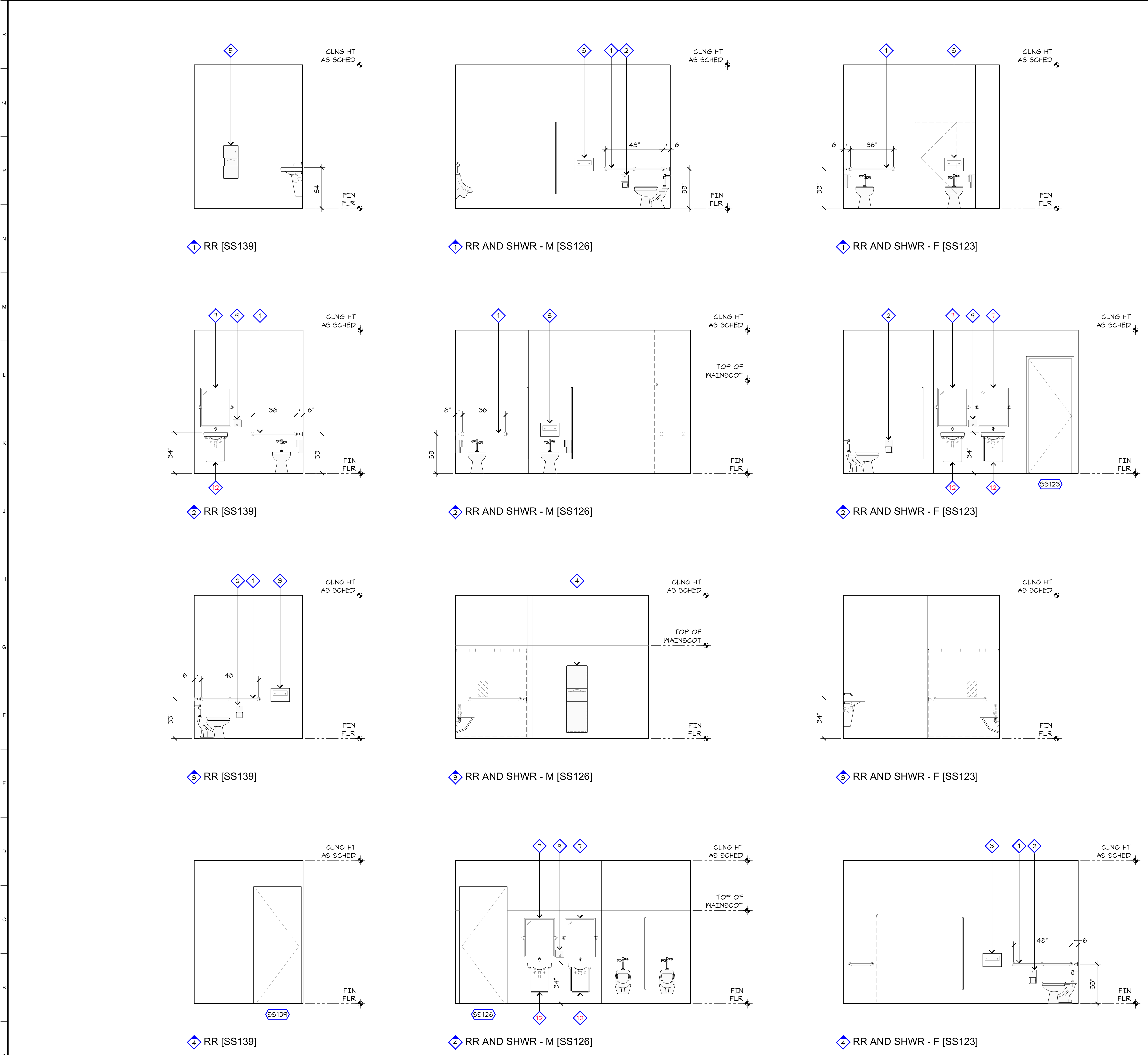
Project:
 Sheriff Area 2 Sub-Station
 1128 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
 FILE NAME: 19003_A5-4_Intr_Elev

Sheet Content:
 INTERIOR ELEVATIONS



Sheet No.
A5.4





MARK	DESCRIPTION (SEE ALSO SPECIFICATIONS SECTION 102800)
1	GRAB BAR (LENGTH AS SHOWN); BOBRICK B-6806
2	TOILET TISSUE DISPENSER, SURFACE-MOUNTED MULTI-ROLL; BOBRICK B-4288
3	TOILET SEAT COVER DISPENSER, SURFACE-MOUNTED; BOBRICK B-4221
4	PAPER TOWEL DISPENSER / WASTE RECEPTACLE, RECESSED; BOBRICK B-43944
5	PAPER TOWEL DISPENSER / WASTE RECEPTACLE, RECESSED; BOBRICK B-4369
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11	HOOK, GAP AND COAT; BOBRICK B-682
12	UNDER LAVATORY GUARD; TRUEBRO LAV SHIELDS
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14	SHOWER CURTAIN ROD, HEAVY-DUTY; BOBRICK B-6107
15	SHOWER SEAT, FOLDING; BOBRICK B-517 OR B-518
16	HOOK, DOUBLE ROBE; BOBRICK B-672

GENERAL NOTES

1. SEE ALSO 'EQPM / FIXT LEGEND', SHEETS A2.2 THRU A2.6.

KEYNOTES LEGEND

NOTE: SOME KEYNOTES MAY NOT APPEAR ON THIS SHEET.

1. BASE AS SCHEDULED

2. 24" DEEP PLAM BASE CABINET W/ SOLID SURFACE COUNTER TOP, 18" BACK SPLASH, AND 4" TOE KICK.

3. 14" DEEP PLAM UPPER CABINETS W/ ADJUSTABLE SHELVING



Project:
 Sheriff Area 2 Sub-Station
 1128 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
 FILE NAME: 19003_A5-5_Intr_Elev

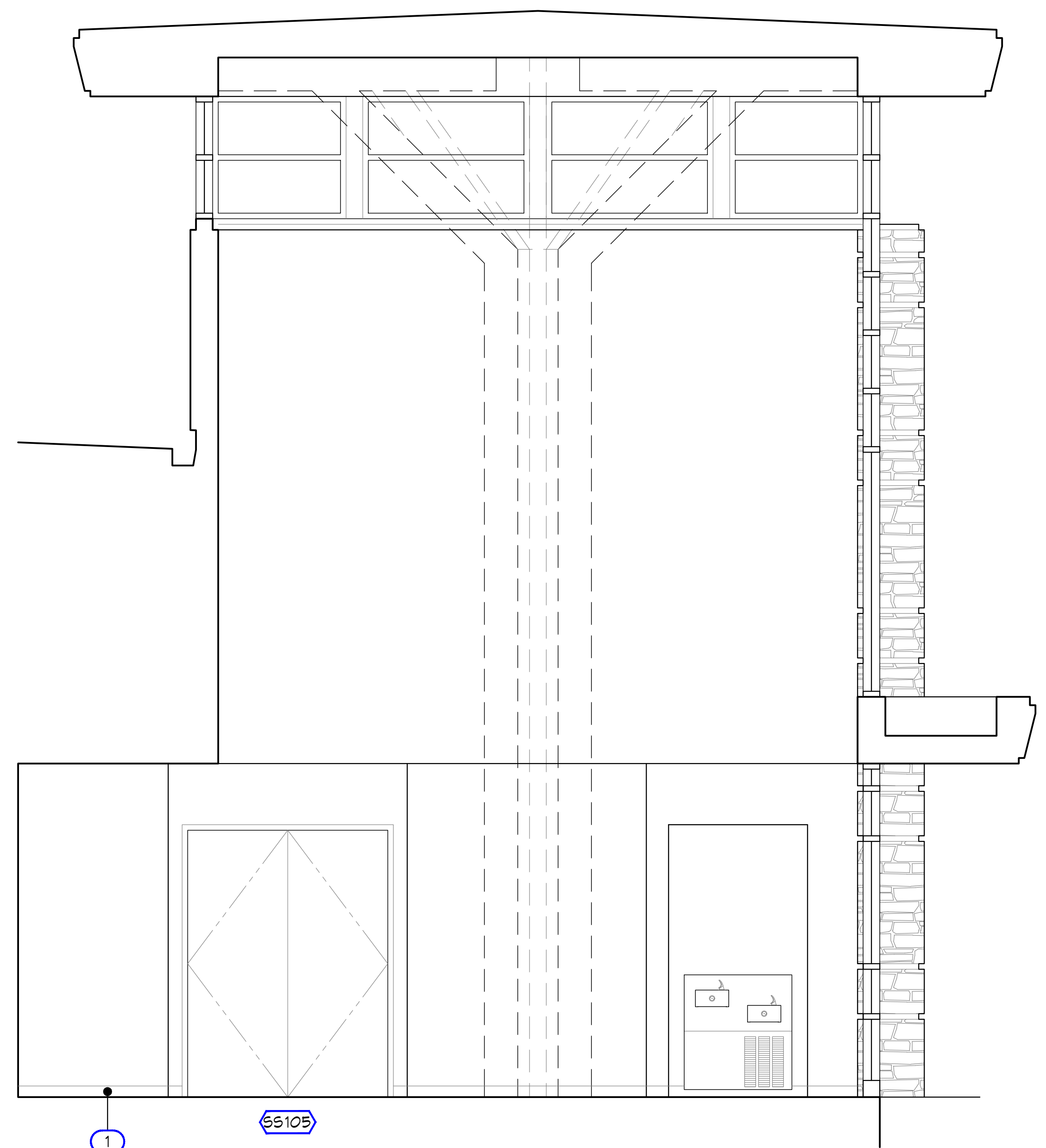
Sheet Content:
 INTERIOR ELEVATIONS



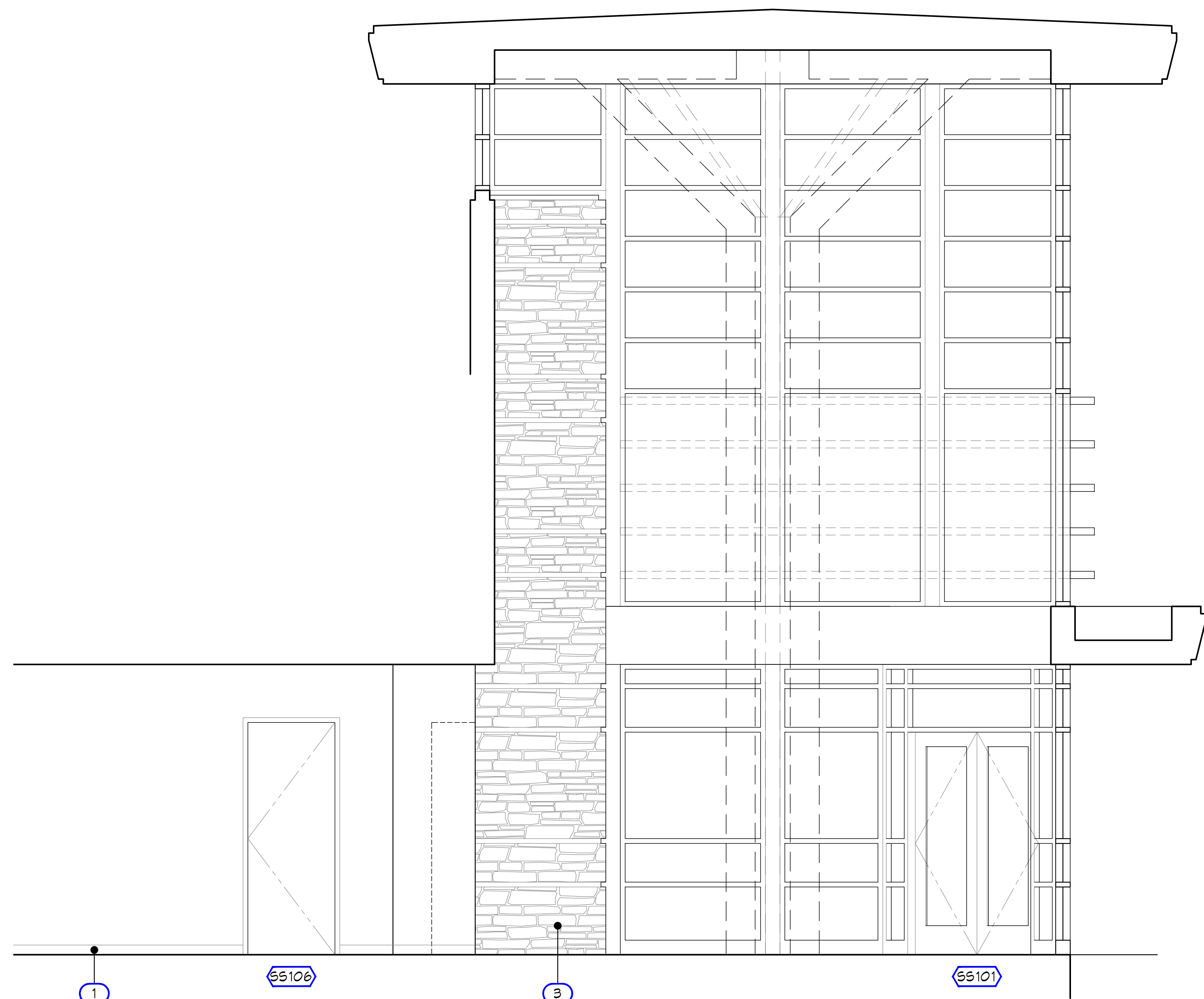
Sheet No.
A5.5

KEYNOTES LEGEND

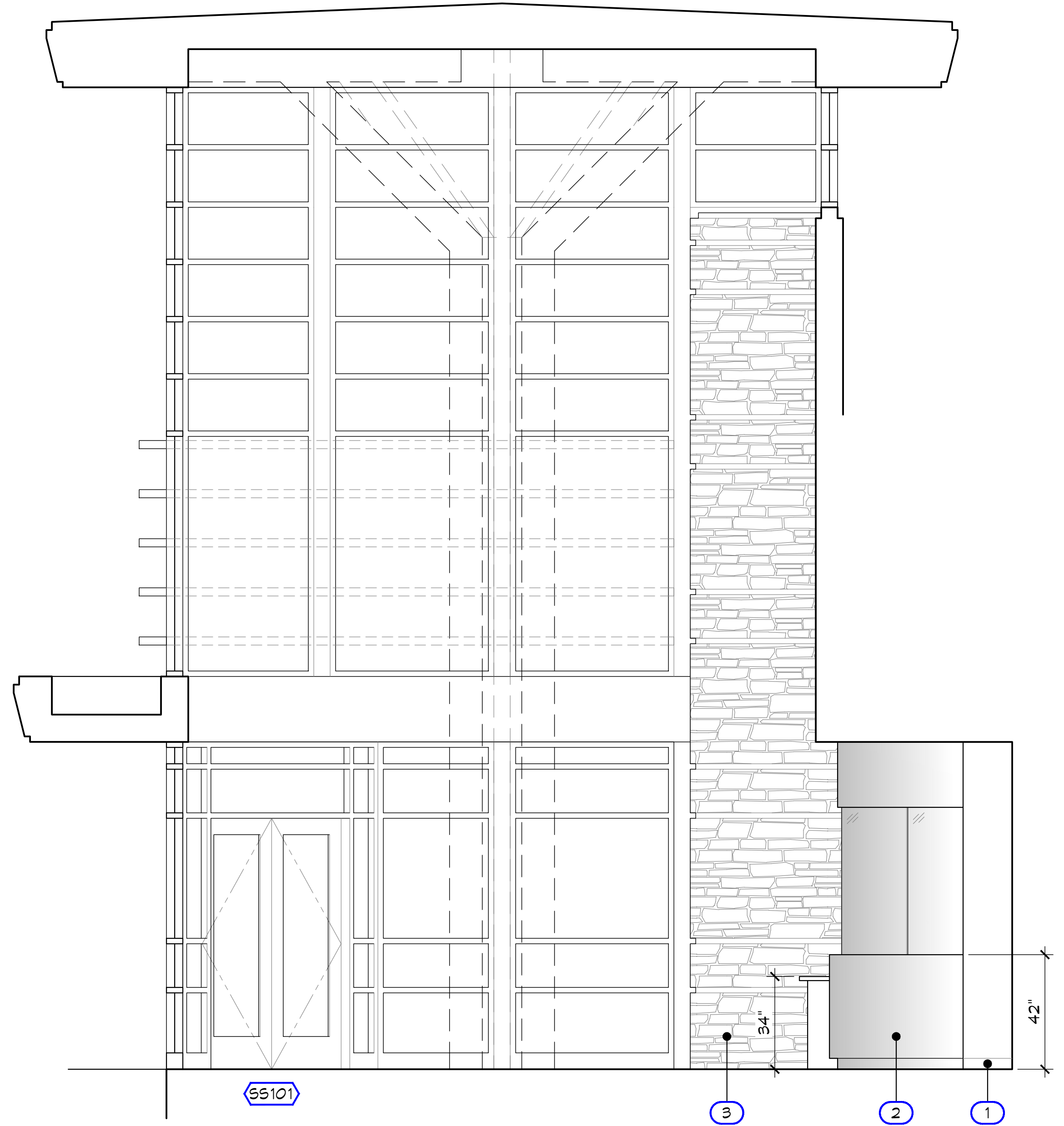
- 1 BASE AS SCHEDULED
- 2 FLAM RECEPTION COUNTER 1/2" MIL SECURITY FILM BY C.J. BUFFER OR SIMILAR 0/ 1/2" GLAZING AND
- 3 STONE MASONRY TO MATCH EXTERIOR



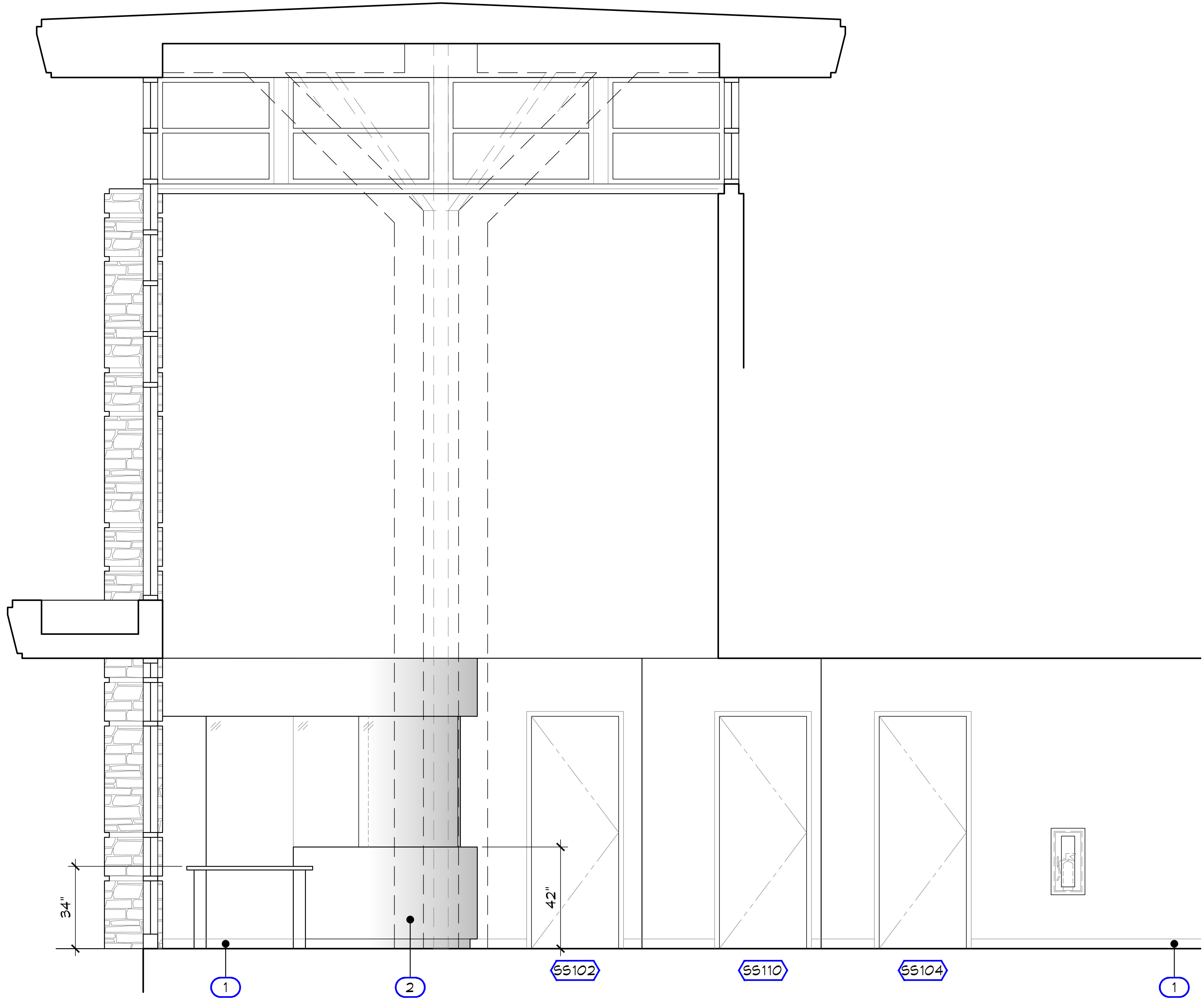
1 PUBLIC WAITING AREA [SS101]



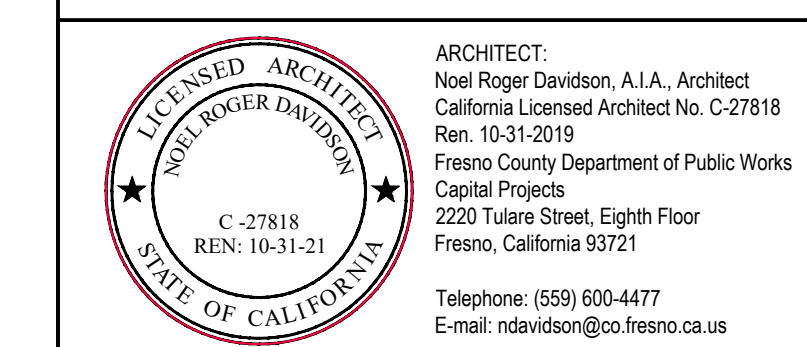
2 PUBLIC WAITING AREA [SS101]



3 PUBLIC WAITING AREA [SS101]



4 PUBLIC WAITING AREA [SS101]



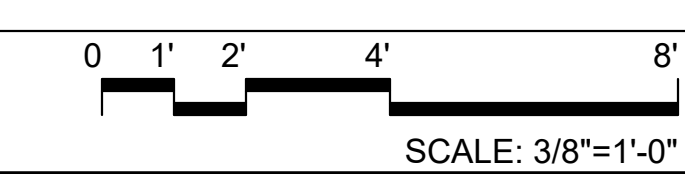
Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
 FILE NAME: 19003_A5-6_Intr_Elev

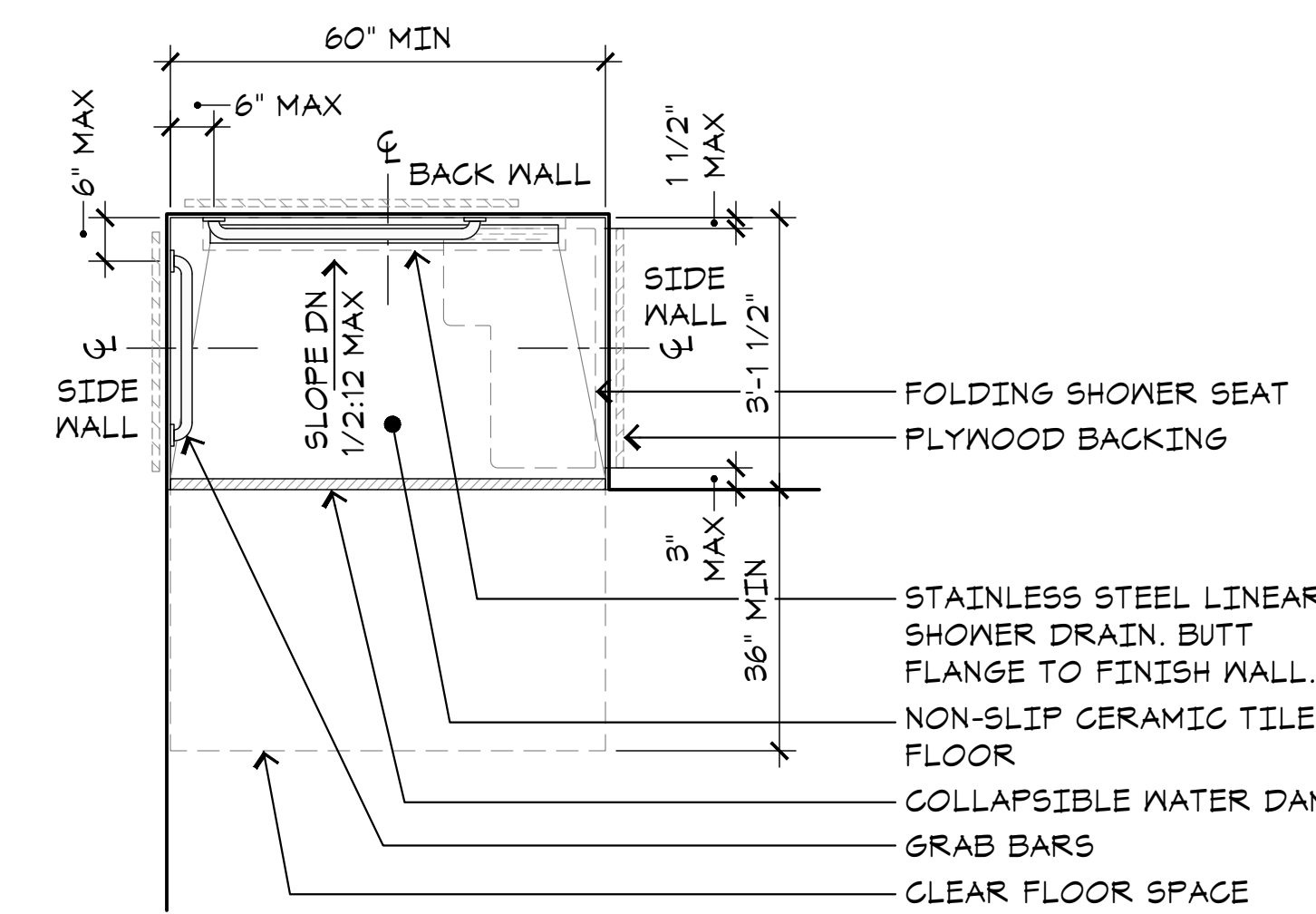
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 INTERIOR ELEVATIONS



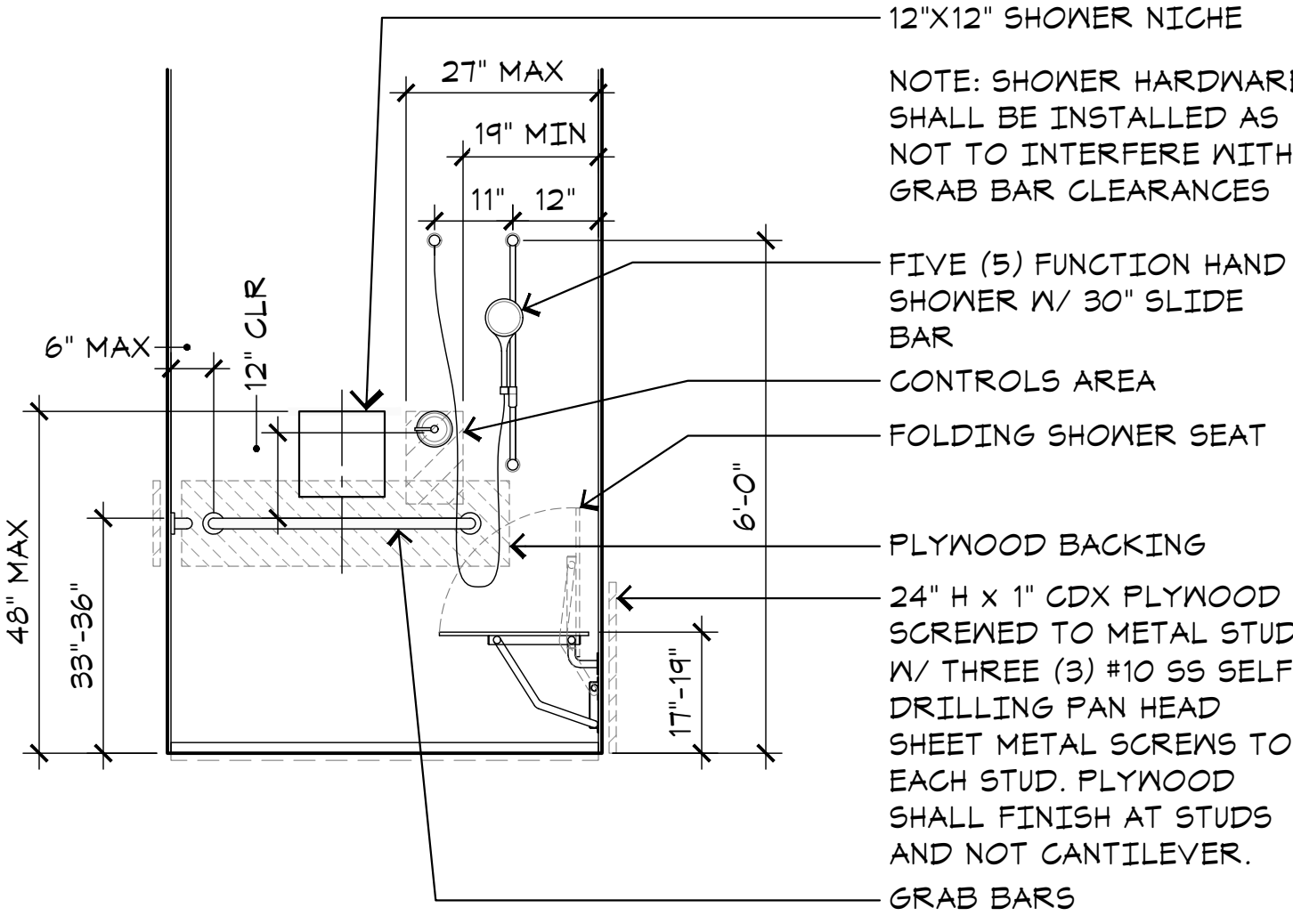
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A1 INTERIOR ELEVATIONS

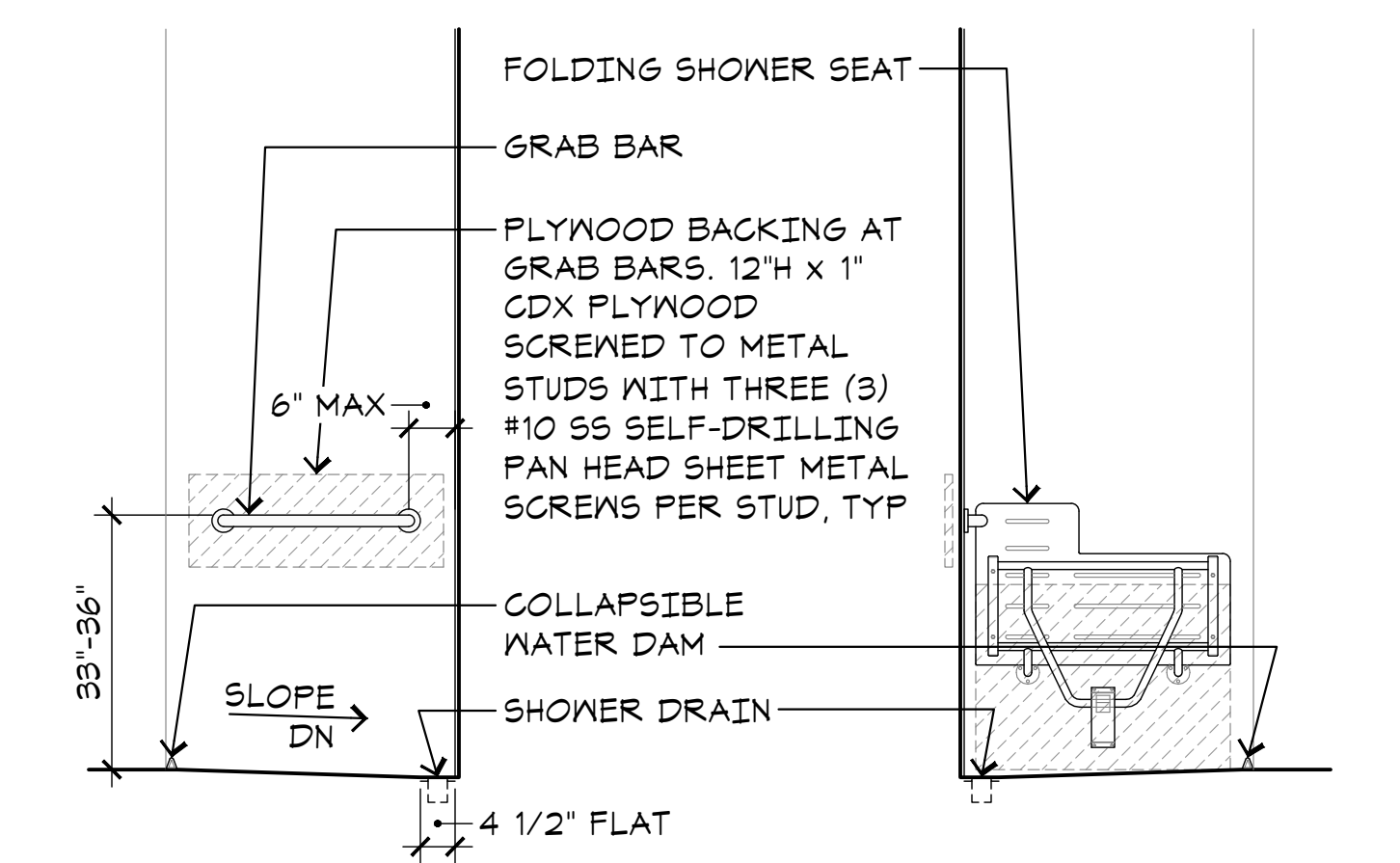




TYPICAL PLAN

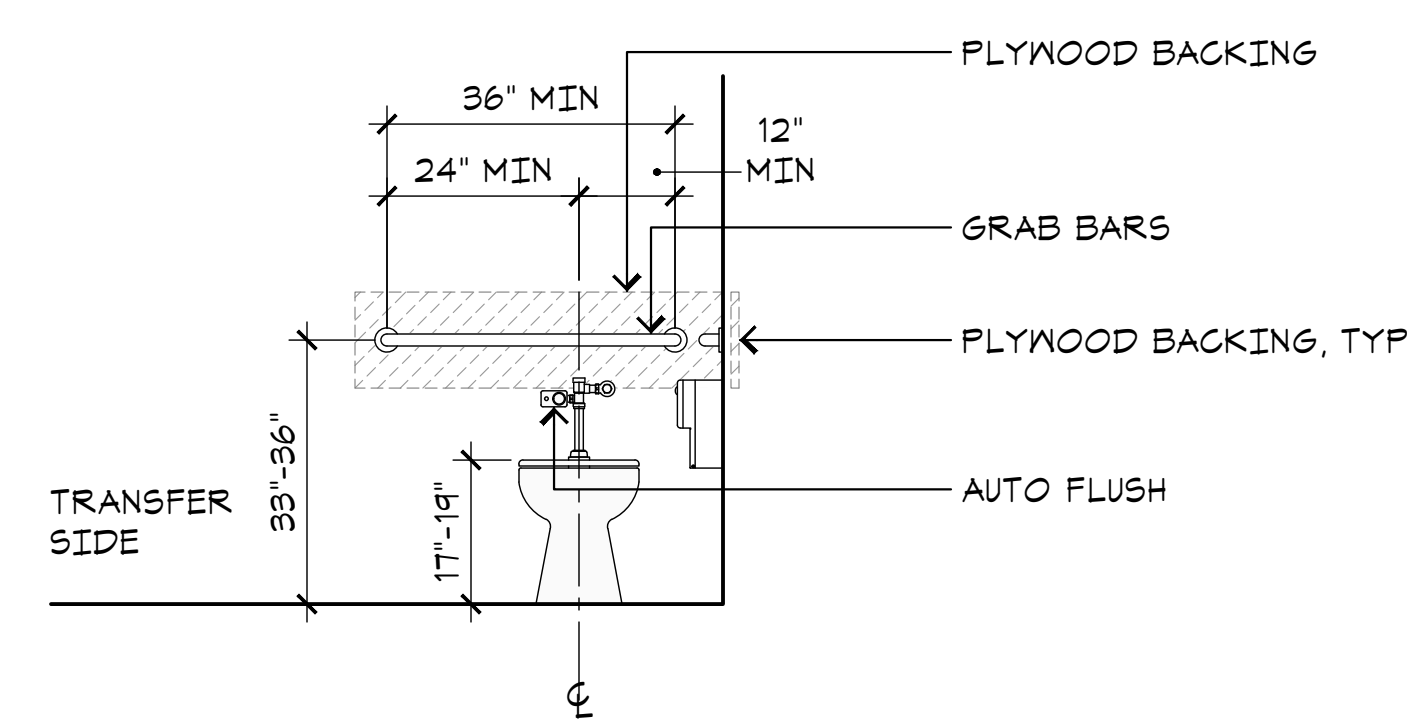


TYPICAL FRONT ELEVATION

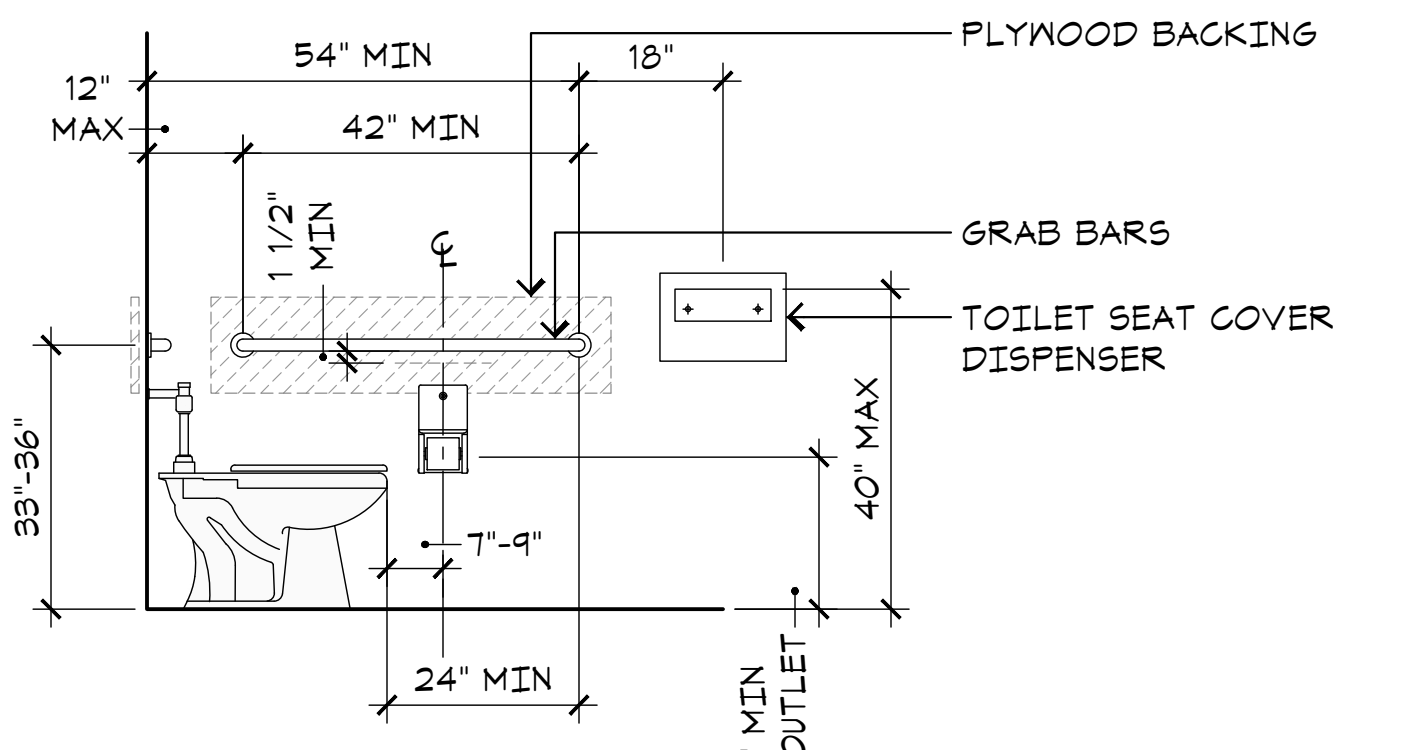


TYPICAL SIDE ELEVATIONS

G9 ACCESSIBLE SHOWER
A5.7 SCALE: 1/2"=1'-0"

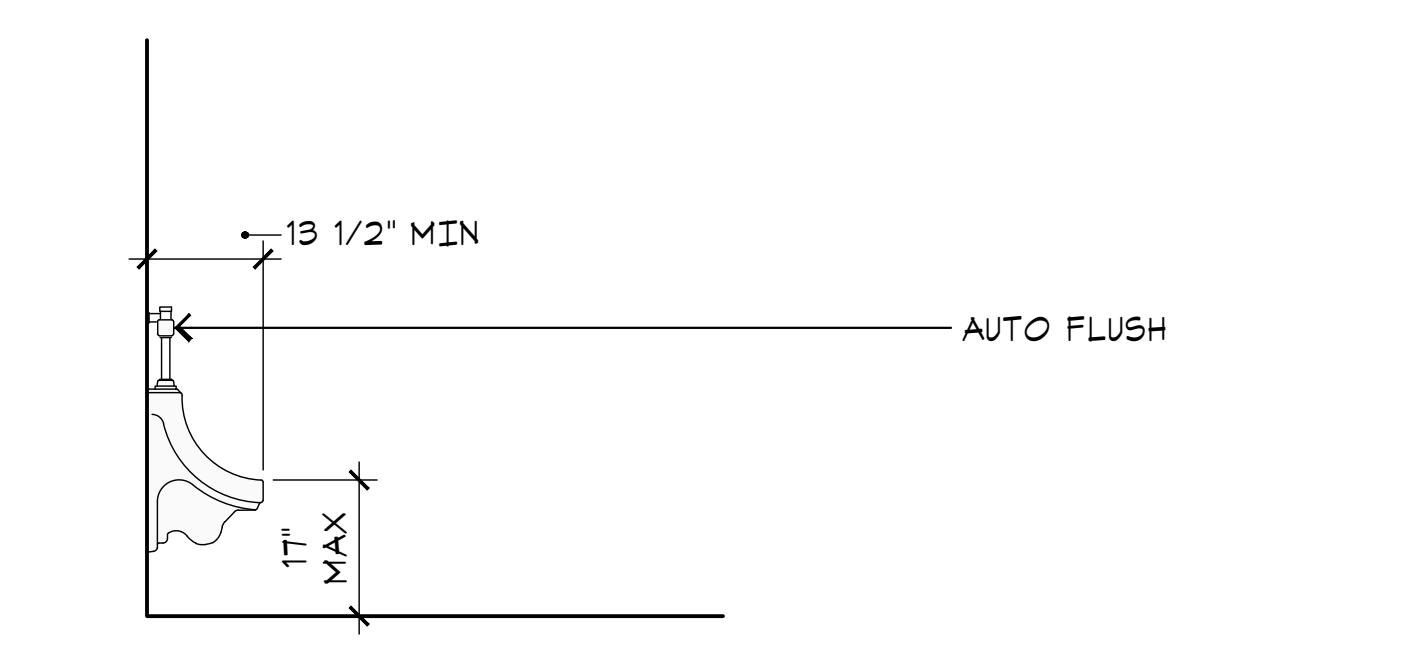


TYPICAL FRONT ELEVATION

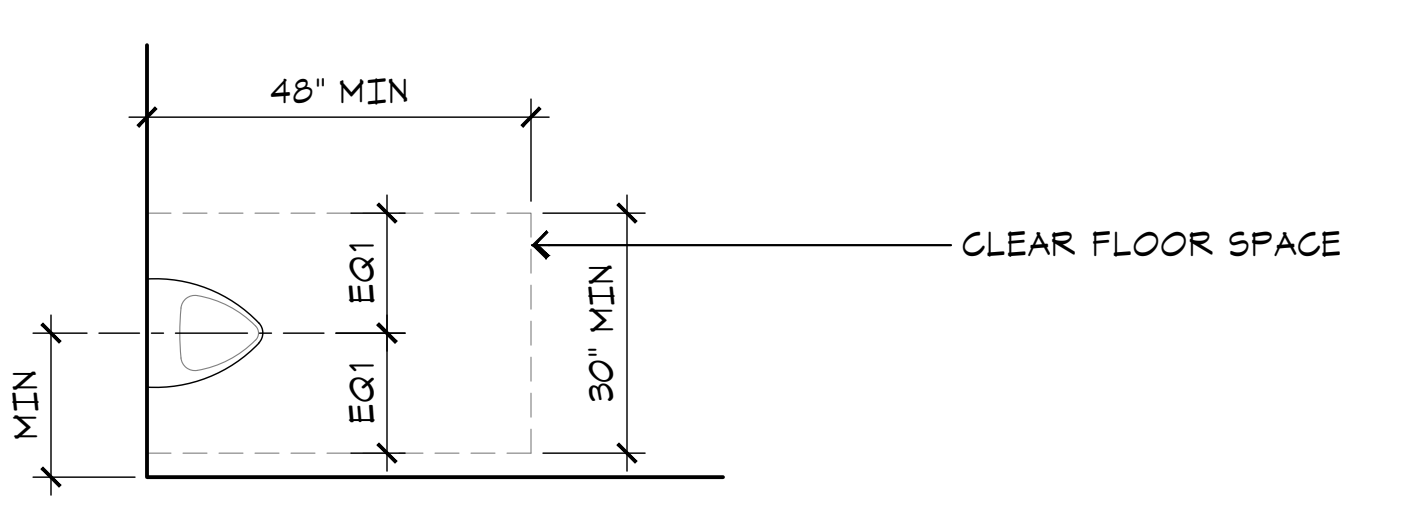


TYPICAL SIDE ELEVATION

L13 ACCESSIBLE TOILET
A5.7 SCALE: 1/2"=1'-0"

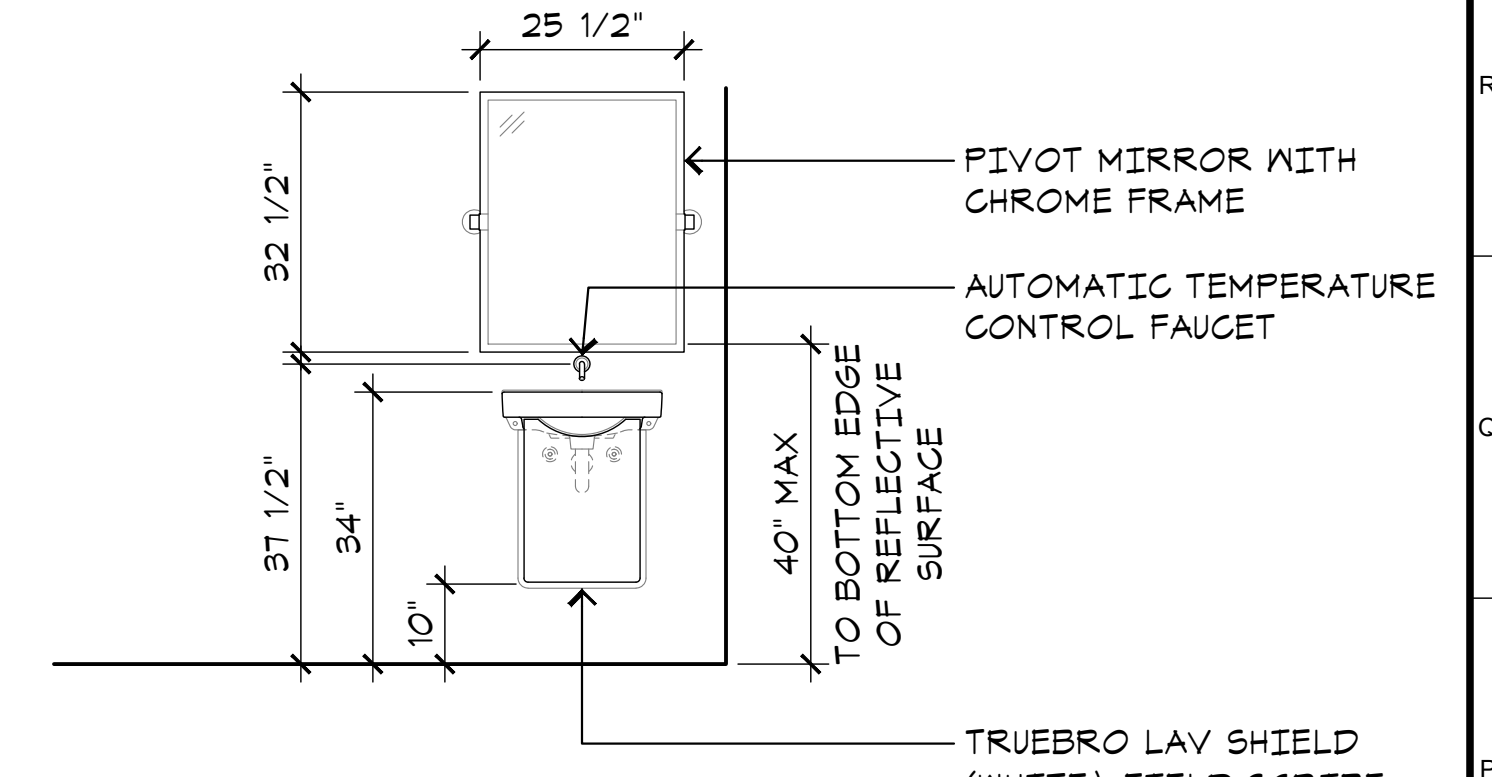


TYPICAL SIDE ELEVATION

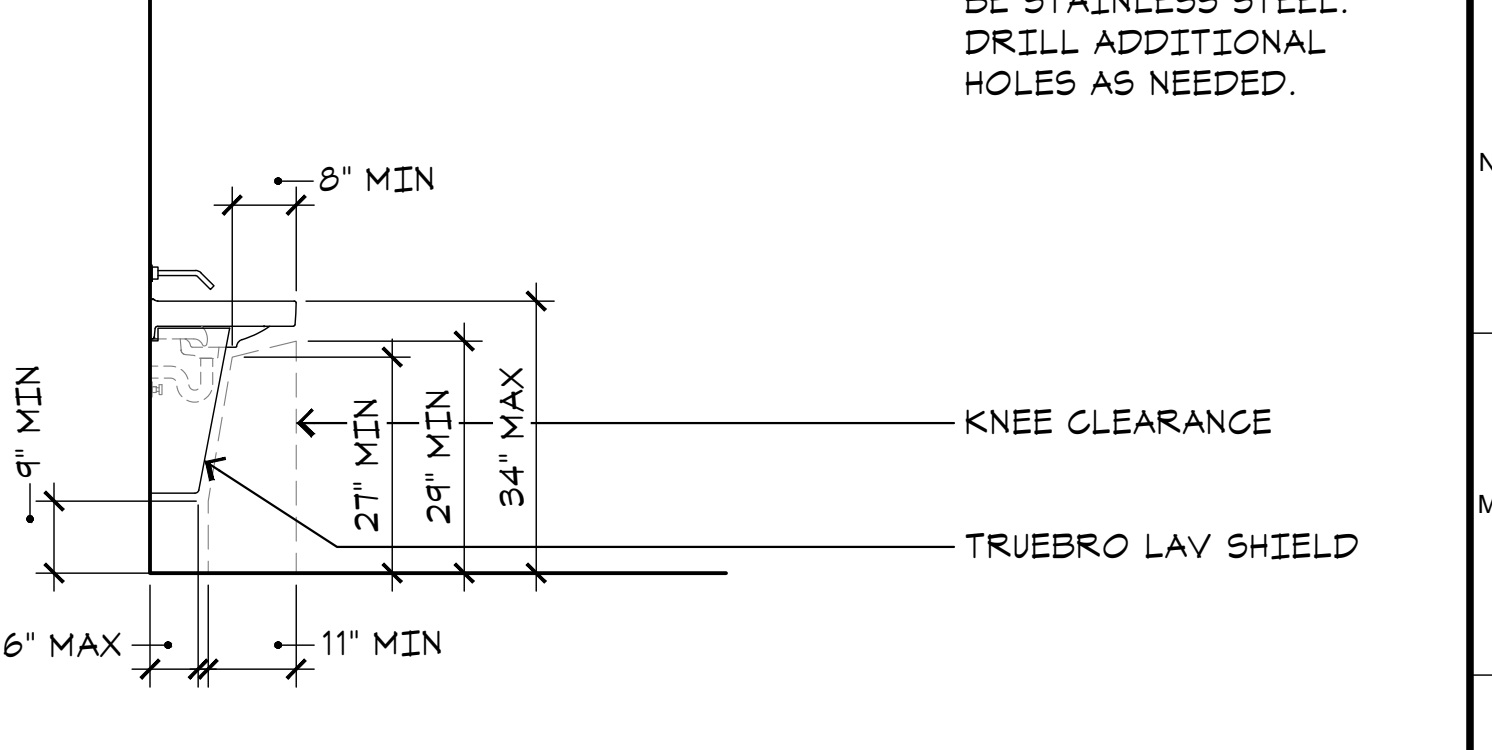


TYPICAL PLAN

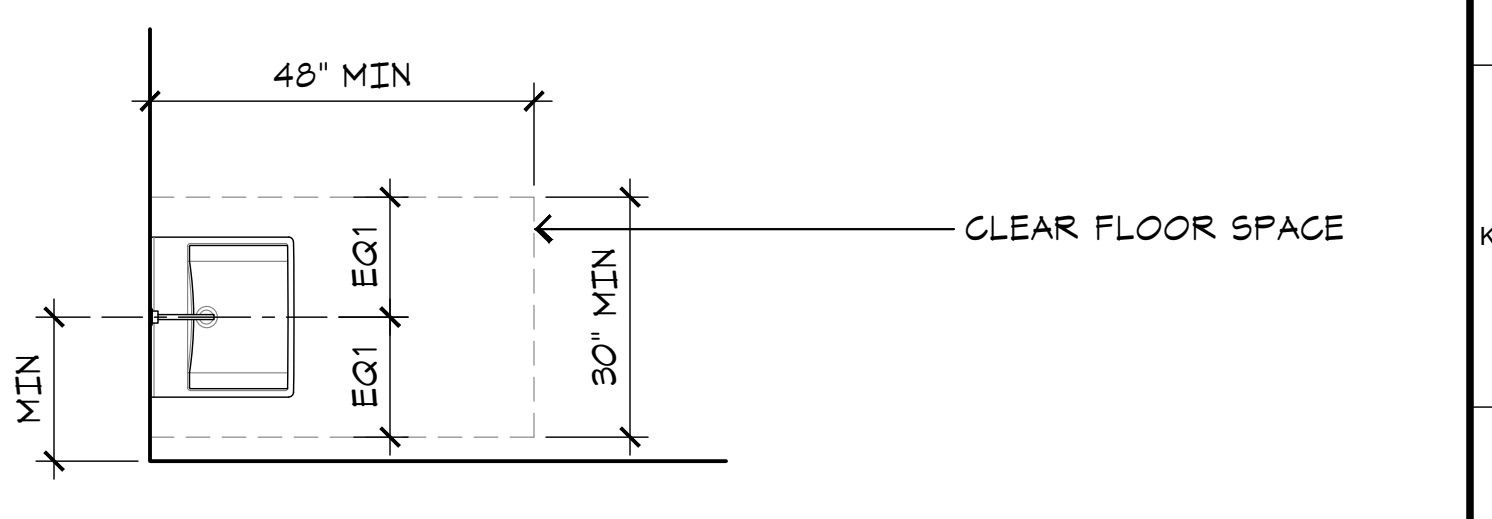
E13 ACCESSIBLE URINAL
A5.7 SCALE: 1/2"=1'-0"



TYPICAL FRONT ELEVATION



TYPICAL SIDE ELEVATION



TYPICAL PLAN

J17 ACCESSIBLE SINK
A5.7 SCALE: 1/2"=1'-0"



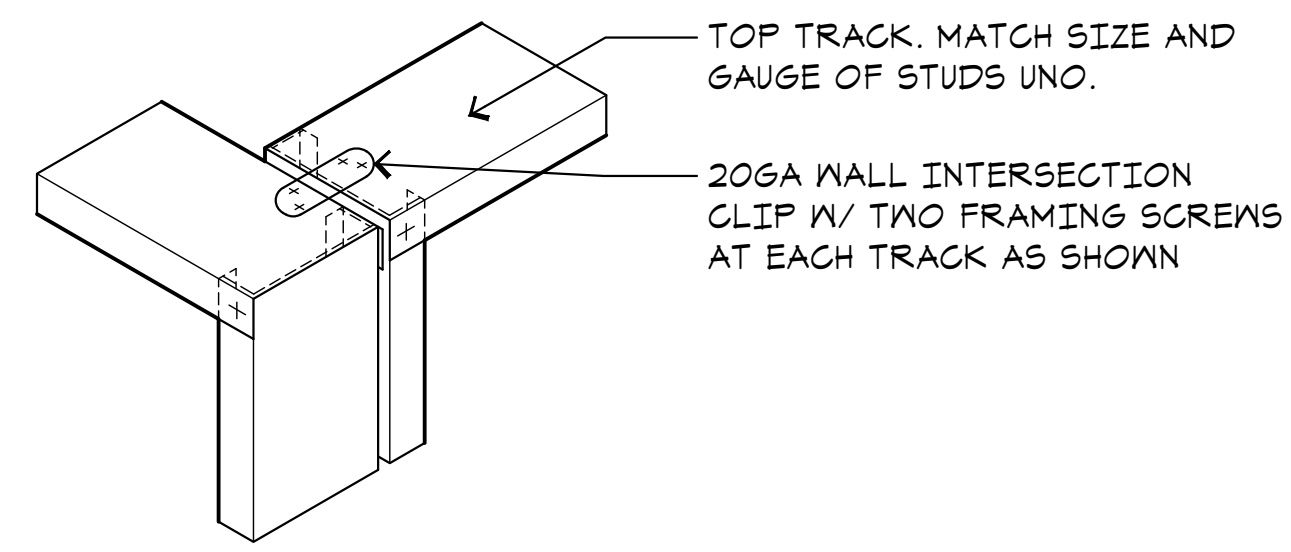
Project:
Sheriff Area 2 Sub-Station
1128 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 06.02.2020
PROJECT NO: 19003 / 19003
FILE NAME: 19003_A5-7_Access

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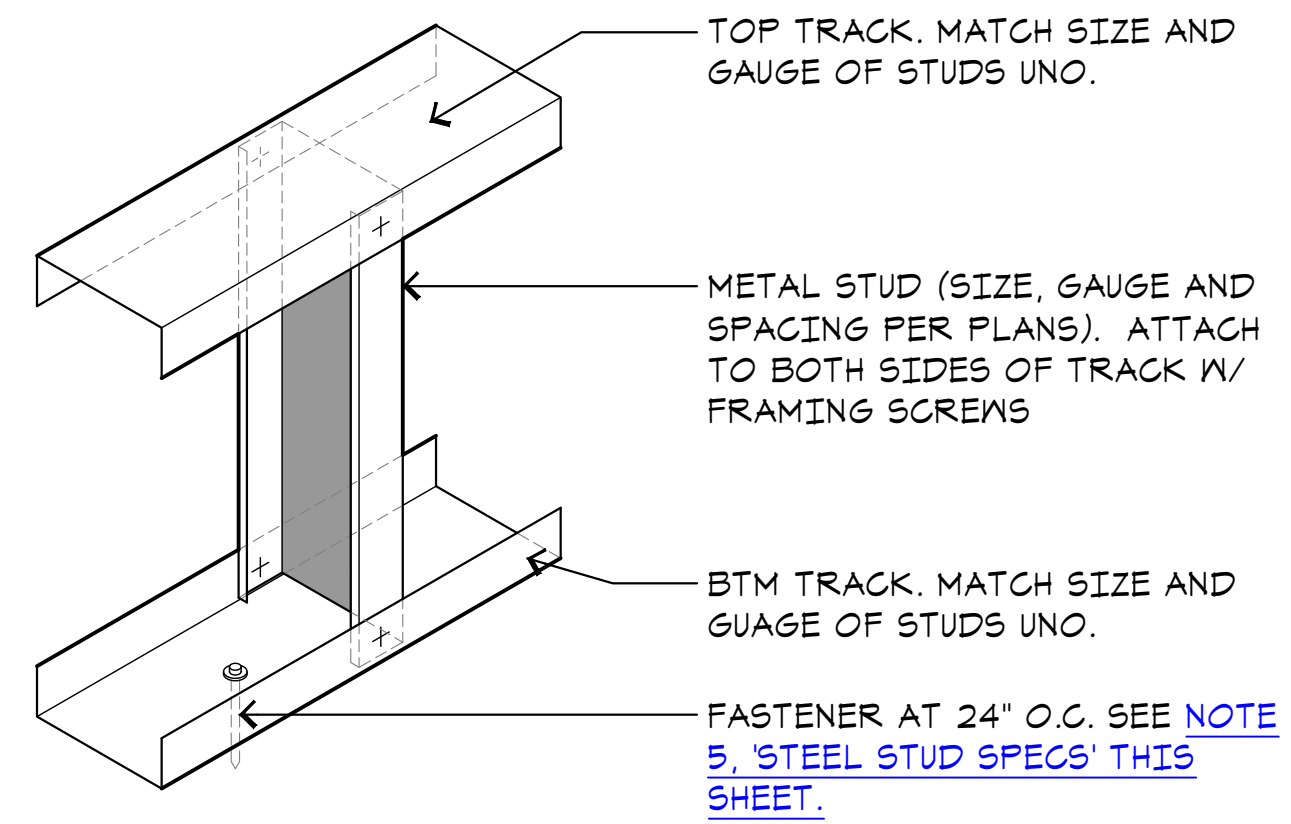


Sheet No.
A5.7

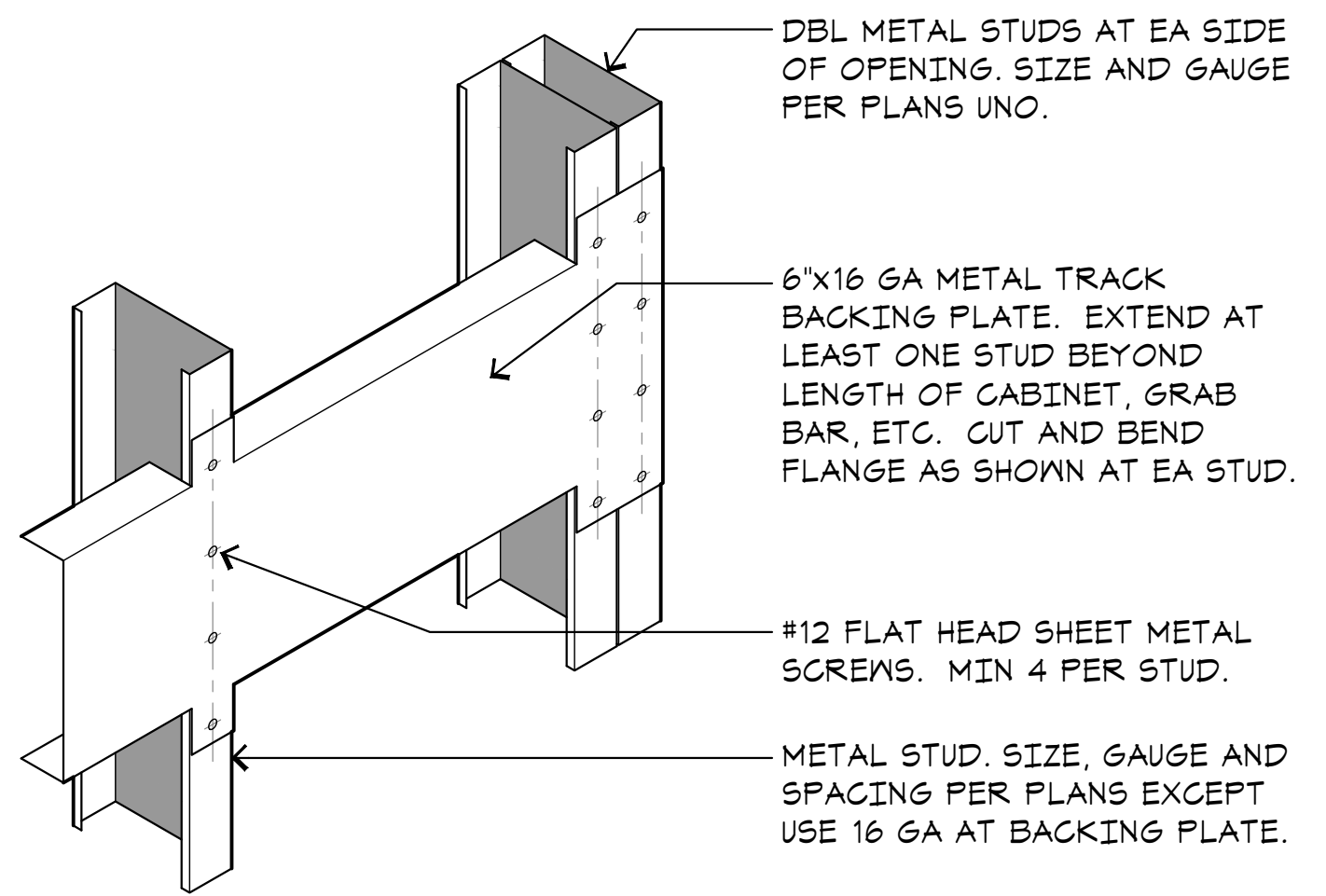
A - TOP PLATE INTERSECTION



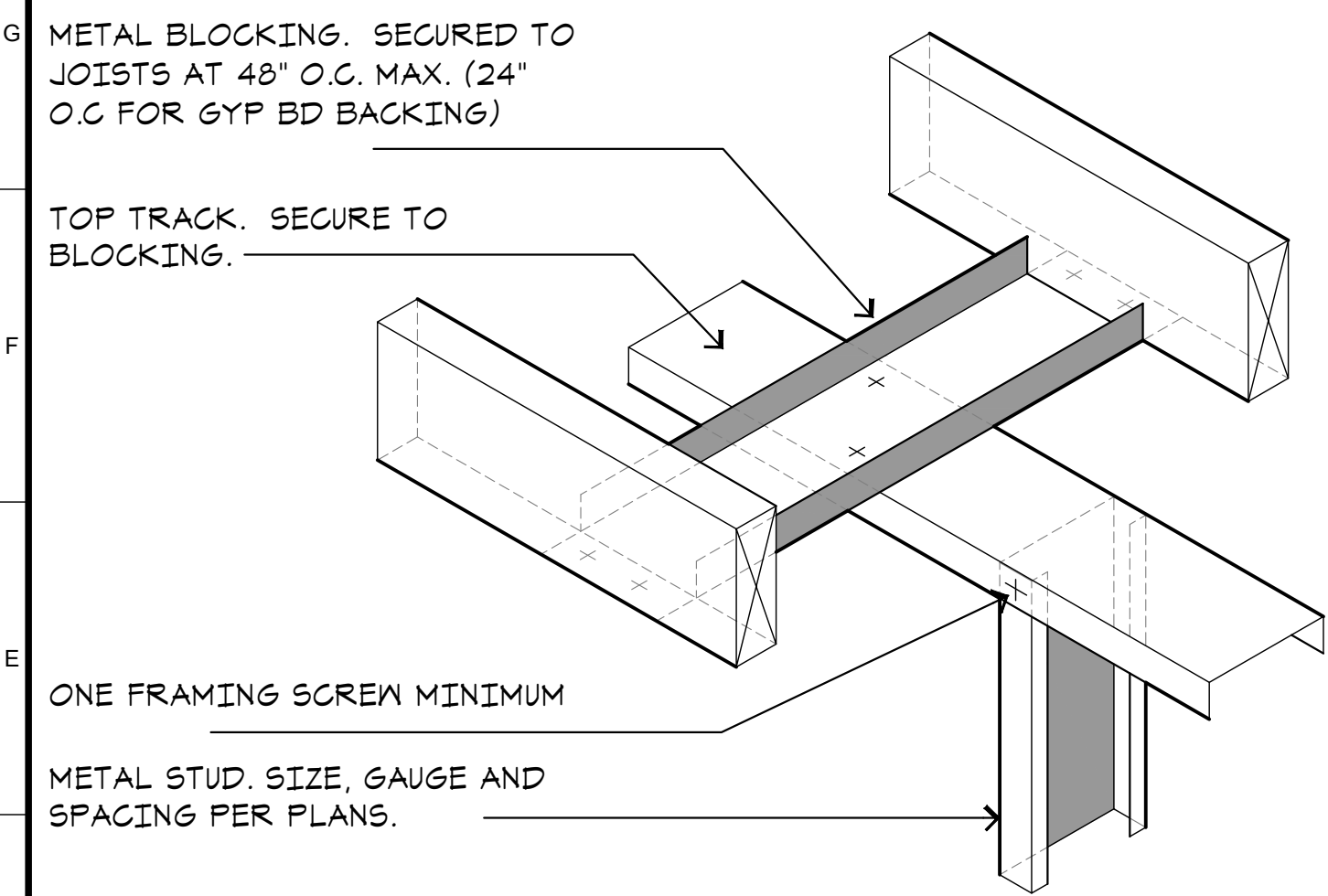
B - TYP INTERIOR NON-BEARING WALL



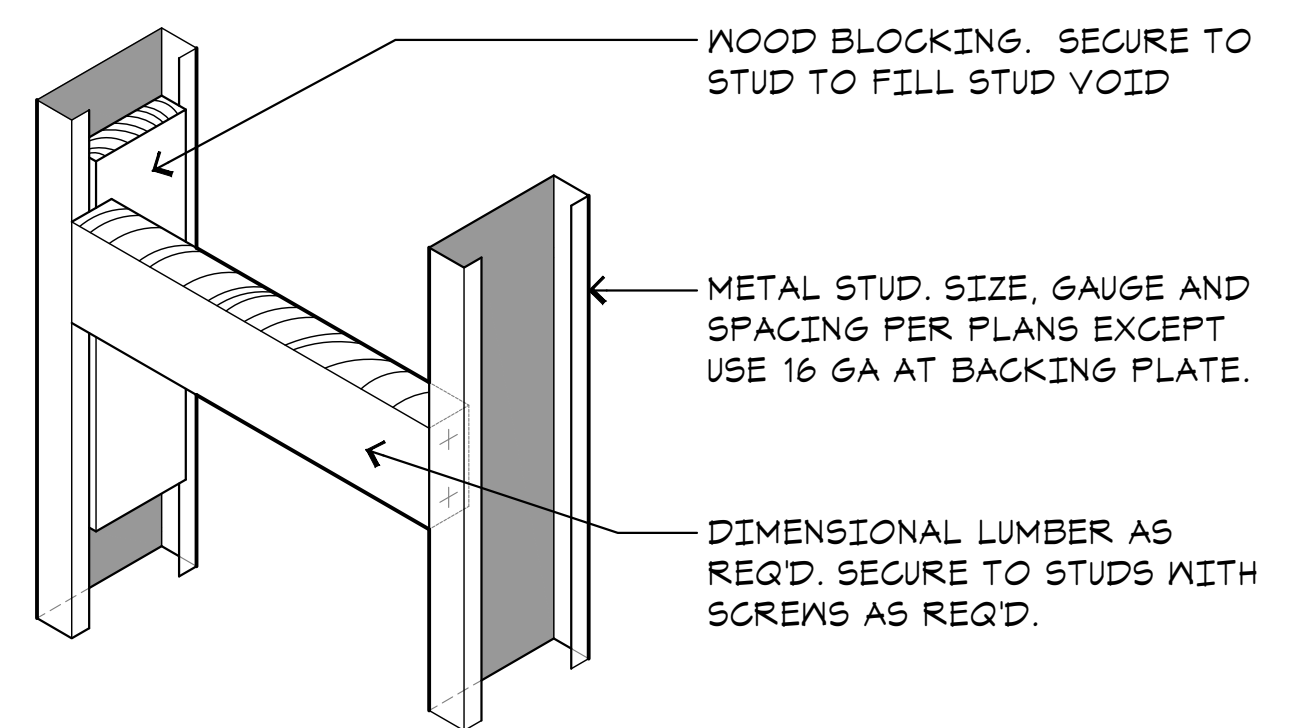
C - TYP BACKING PLATE



D - TYP WALL/JOIST ATTACHMENT



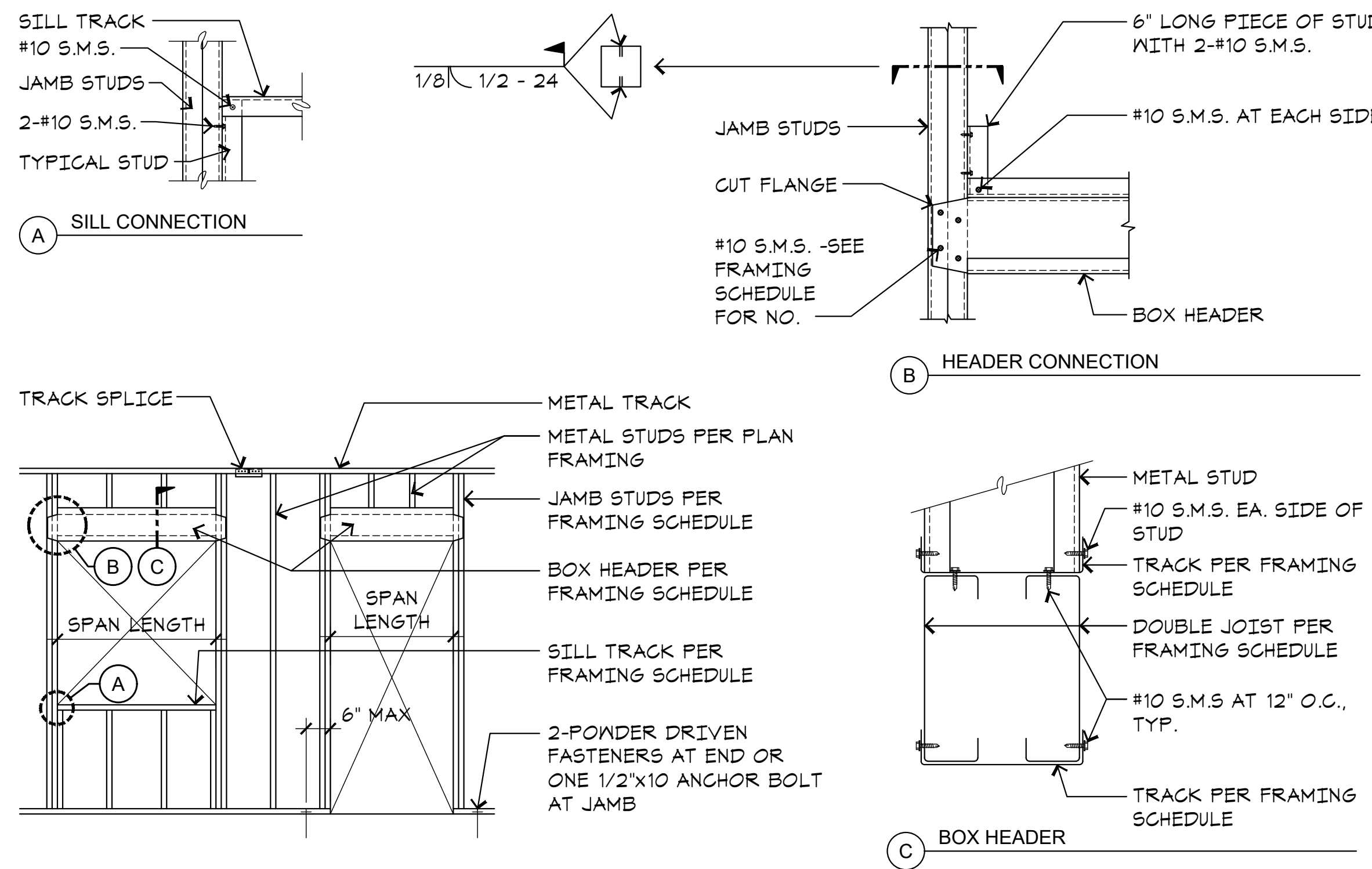
E - HEAVY FIXTURE ATTACHMENT



A1 TYP STEEL STUD DETAILS

A6.1 SCALE: NONE

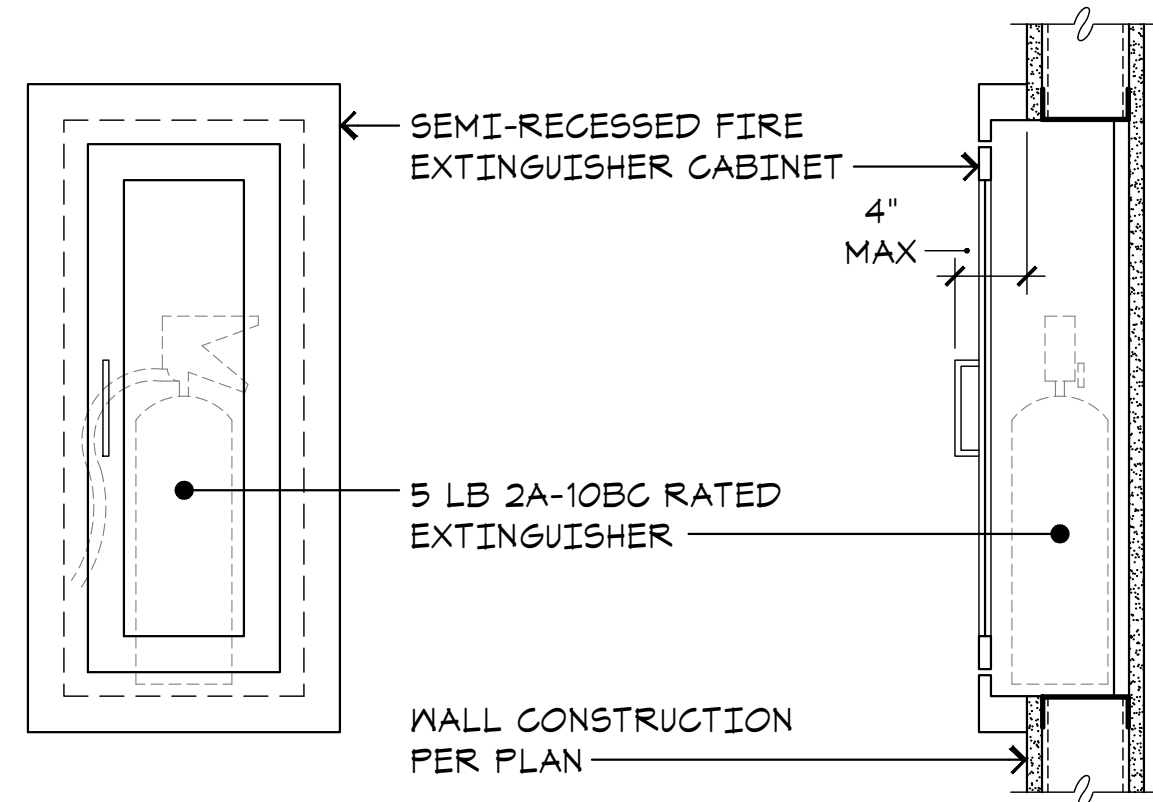
WALL TYPE	SPAN LENGTH	BOX HEADER		JAMB STUDS	SILL TRACK	NO. #10 SMS AT EA JOIST TO JAMB
		DOUBLE JOISTS	TRACK			
2 1/2" STUDS	0' TO 8'-0"	(2) 600S137-54	(2) 250T150-33	(2) 250S137-43	250T150-33	3
3 5/8" STUDS	0' TO 6'-0"	(2) 362S137-43	(2) 362S137-43	(2) 362S137-43	362T125-33	3
4" STUDS	0' TO 6'-0"	(2) 600S137-54	(2) 400T150-43	(2) 400S137-54	400T150-43	4
	6'-1" TO 10'-0"	(2) 600S162-33	(2) 400T200-33	(2) 400S200-54	400T200-33	4
6" STUDS	0' TO 6'-0"	(2) 600S137-54	(2) 600T150-43	(2) 600S137-54	600T150-43	4
	6'-1" TO 10'-0"	(2) 800S162-43	(2) 600T150-43	(2) 600S137-68	600T150-43	6
	10'-1" TO 16'-0"	(2) 1000S162-43	(2) 600T150-43	(2) 600S162-68	600T150-43	8



J5 TYPICAL METAL STUD WALL FRAMING

A6.1 SCALE: NONE

- NOTES
1. RECESS CABINET ONLY AT STEEL STUD WALL.
2. HIGHEST OPERABLE PART OF THE FIRE EXTINGUISHER CABINET OR FIRE EXTINGUISHER SHALL BE 48 INCHES MAX ABOVE THE FLOOR.



E5 FIRE EXT CABINET

A6.1 SCALE: NONE

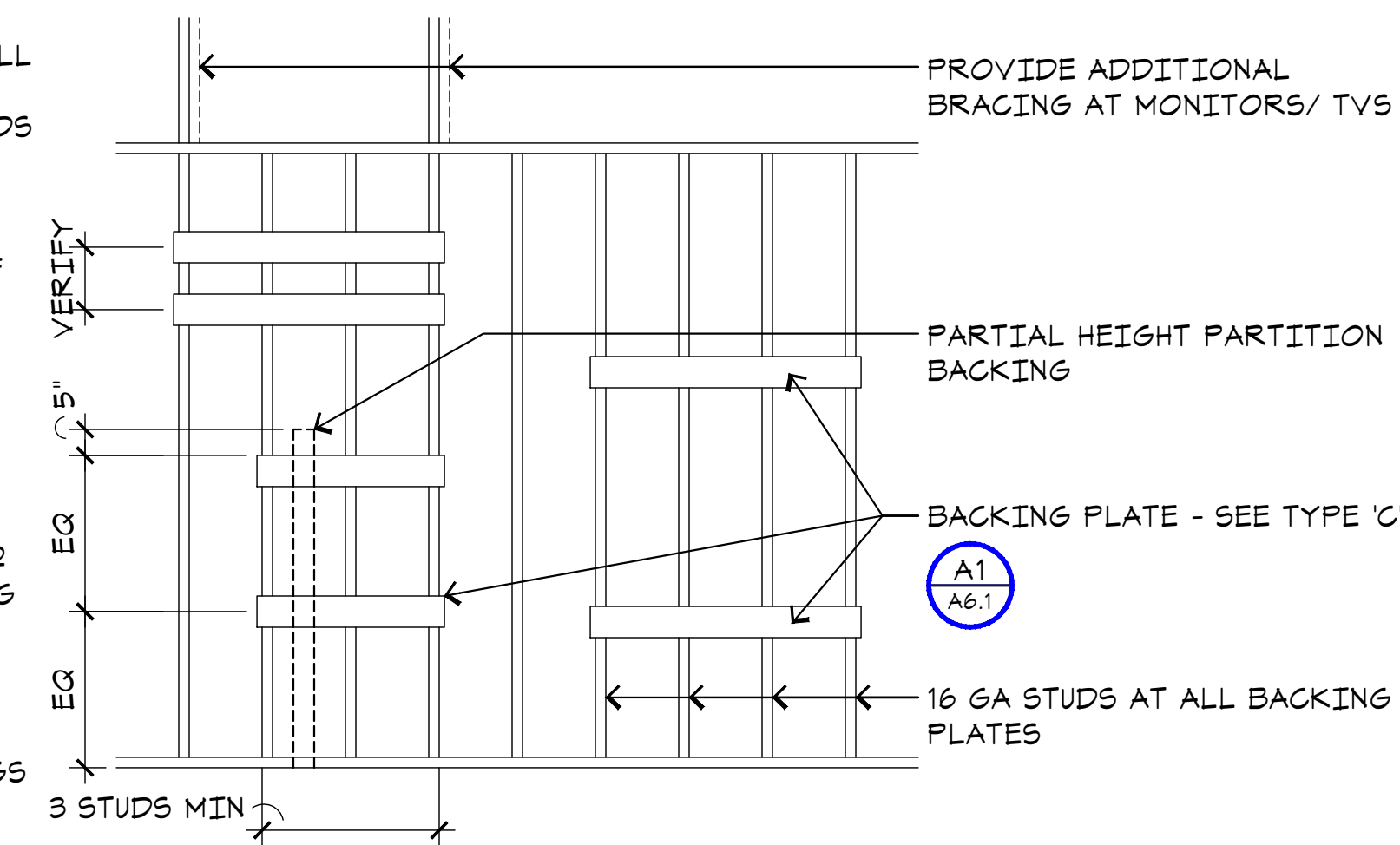
STEEL STUD SPECIFICATIONS

- GENERAL
ALL AXIAL OR WIND LOADED LIGHT GAUGE STEEL STUDS, TRACK, JOISTS, TRUSSES, BRIDGING AND RELATED ACCESSORIES ARE AS INDICATED ON THE CONTRACT DRAWINGS AND AS SPECIFIED HEREIN.
- PRODUCTS
ALL FRAMING MEMBERS SHALL BE MANUFACTURED AND SUPPLIED BY DETRICH INDUSTRIES OR ARCHITECT APPROVED EQUAL AND BE OF THE TYPE AND SIZE AS SHOWN ON THE PLAN(S).
- MATERIALS
3.1. GALVANIZED MATERIAL
ALL GALVANIZED STUDS AND JOISTS SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF A.S.T.M. A446. ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF A.S.T.M. A525.
3.2. PROPERTIES
THE PHYSICAL AND STRUCTURAL PROPERTIES LISTED BY THE MANUFACTURER SHALL BE CONSIDERED THE MINIMUM PERMITTED FOR ALL FRAMING MEMBERS. SPECIFICALLY THE FOLLOWING MINIMUM PROPERTIES, CALCULATED IN ACCORDANCE WITH THE LATEST A.I.S.I. SPECIFICATION SHALL BE PROVIDED: Ix (IN.4), Sx (IN.3), AREA (IN.2), Rx (IN.), Fy (KSI), RESISTING MOMENT (IN.-LB).
3.3. SUBSTITUTIONS
ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING TEN (10) DAYS PRIOR TO BID DATE BY ARCHITECT AND/OR ENGINEER OF RECORD.
- EXECUTION
4.1. SURFACE CONDITIONS
4.1.1. INSPECTION: PRIOR TO INSTALLATION, INSPECT ALL WORK OF OTHER TRADES, VERIFY THAT ALL SUCH WORK IS COMPLETE AND ACCURATE TO THE POINT WHERE THIS INSTALLATION MAY PROPERLY COMMENCE IN STRICT ACCORDANCE WITH THE FRAMING SHOP DRAWINGS.
4.1.2. DISCREPANCIES: IMMEDIATELY NOTIFY THE ARCHITECT OF ALL DISCREPANCIES; DO NOT PROCEED WITH INSTALLATION IN AREAS OF DISCREPANCIES UNTIL SUCH DISCREPANCY HAS BEEN FULLY RESOLVED.
4.2. ERECTION
ALL FRAMING SHALL BE INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LATEST PRINTED INSTRUCTIONS AND IN STRICT ACCORDANCE WITH THE APPROVED SHOP/ ARCHITECT'S DRAWINGS.
5. SECURING THE WALL
5.1. AFTER WALL ASSEMBLY, WALLS ARE RAISED, PLUMBED AND SQUARED INTO POSITION. IN ORDER TO STABILIZE THE WALL AT INTERSECTIONS OF ABUTTING PARTITIONS, DETAIL A1/A6.1, TYPE 'A' CAN BE USED. AFTER THIS IS DONE, THE BOTTOM TRACK SHOULD BE FASTENED TO THE FLOOR AS FOLLOWS:
5.1.1. FOR WALLS ATTACHED TO PLYWOOD DECK, USE #10 1-1/2" SCREWS AT 24" O.C.
5.1.2. FOR WALLS ATTACHED TO CONCRETE SLAB, USE HILTI X-USE2 OR SIMILAR POWDER DRIVEN FASTENERS AT 24" O.C. PENETRATION OF PINS IN SLAB SHALL NOT EXCEED 1/3 OF SLAB THICKNESS.
5.2. WHEN JOIST ARE SET, THE TOP TRACK SHOULD BE SECURED TO BOTTOM OF JOISTS PER DETAIL A1/A6.1, TYPE 'D'.
5.3. IF THE BOTTOM TRACK IS RUN CONTINUOUSLY ACROSS DOOR OPENINGS DURING WALL PANEL ASSEMBLY, IT CAN BE CUT OUT WITH A SAMS-ALL AT EACH JAMB.

E13 TYPICAL STEEL STUD BACKING

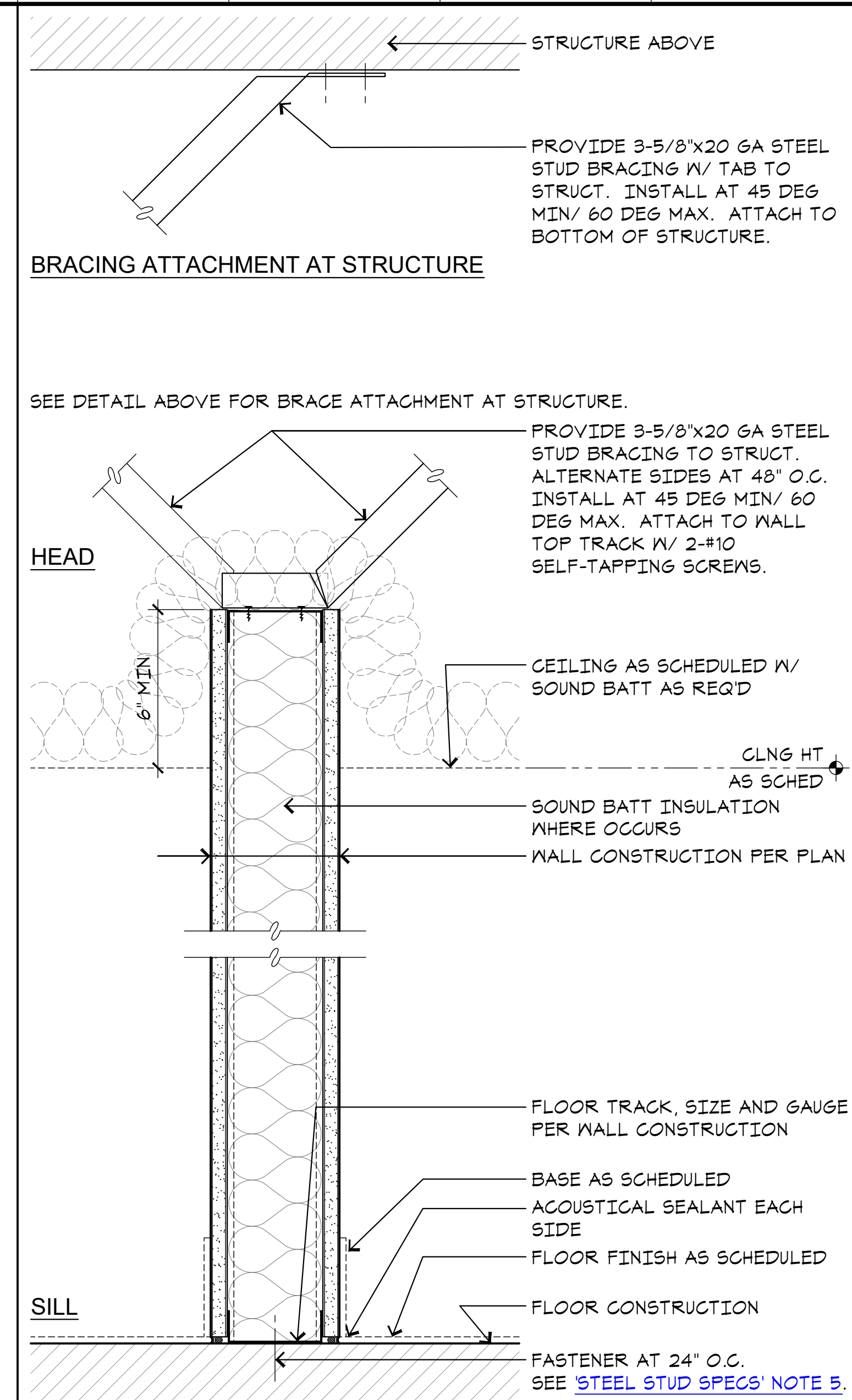
A6.1 SCALE: NONE

- NOTES:
1. TYPE 'D3' BACKING PLATES ARE FOR BASE CABINETS, FILM VIEWING COUNTERS, HANDRAILS, GUARDRAILS, WALL HUNG EQUIPMENT, ETC. MAXIMUM WEIGHT = 100 POUNDS / FOOT
2. SEE TYPICAL WALL FRAMING AND SPECIFICATIONS FOR SIZE, GAUGE AND SPACING OF STUDS.
3. VERIFY LENGTH, HEIGHT, LOCATION, AND NUMBER OF BACKING PLATES WITH MANUFACTURER OF ALL ITEMS BEING INSTALLED.
4. USE #12 SELF TAPPING SHEET METAL AT 18" O.C. MAXIMUM (2 MINIMUM) WHEN AT ATTACHING ITEMS TO BACKING PLATES.
5. WALL STUD FLANGES ARE CONTINUOUS.
6. WALL STUDS SHALL BE 20 GA MINIMUM EXCEPT AT OPENINGS AND BACKING PLATES WHICH SHALL BE 16 GAUGE AND AS OTHERWISE NOTED.



J17 NON-RATED PARTITION

A6.1 SCALE: 3/8"=1'-0"



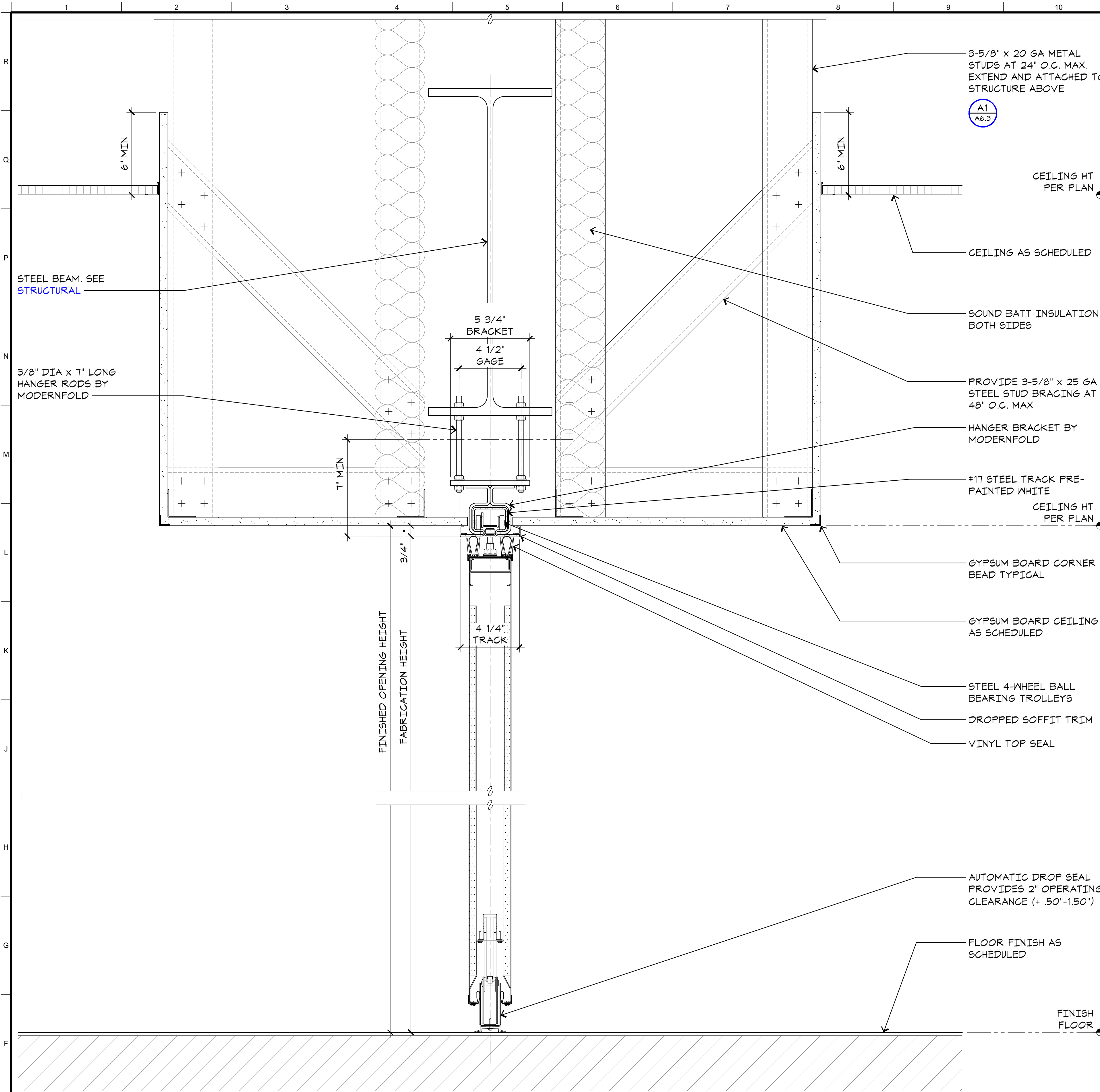
ARCHITECT
Neil Roger Davidson, A.I.A., Architect
California Licensed Architect No. C-27818
Rev. 10-31-2019
Fresno County Department of Public Works
Capital Projects
2220 Tulare Street, Eighth Floor
Fresno, California 93721
Telephone: (559) 600-4477
E-mail: ndavidson@co.fresno.ca.us

Project:
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
APN: 310-133-04-.05, and -.06
ISSUE DATE: 06.02.2020
PROJECT NO: 190293 / 19003
FILE NAME: 19003_A6-1_inr_Det1

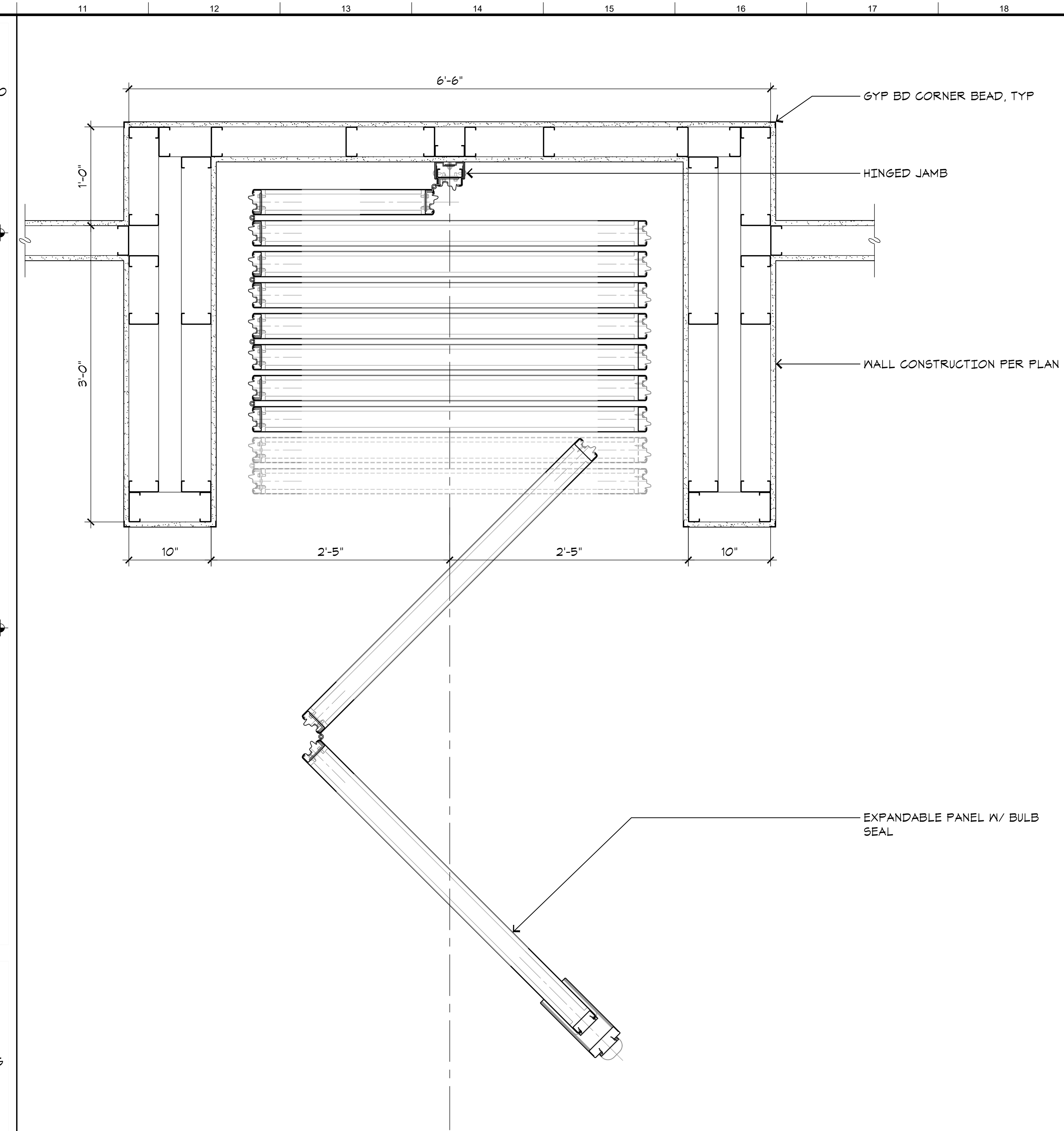
Sheet Content:
INTERIOR DETAILS

Fresno County Department of Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
A6.1



E1 SECTION AT OPERABLE WALL
 A6.2 SCALE: 3/8"=1'-0"



G11 PLAN DETAIL AT OPERABLE WALL
 A6.2 SCALE: 1-1/2"=1'-0"



Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
 FILE NAME: 19003_A6-2_Intr_Detl

Sheet Content:
 INTERIOR DETAILS

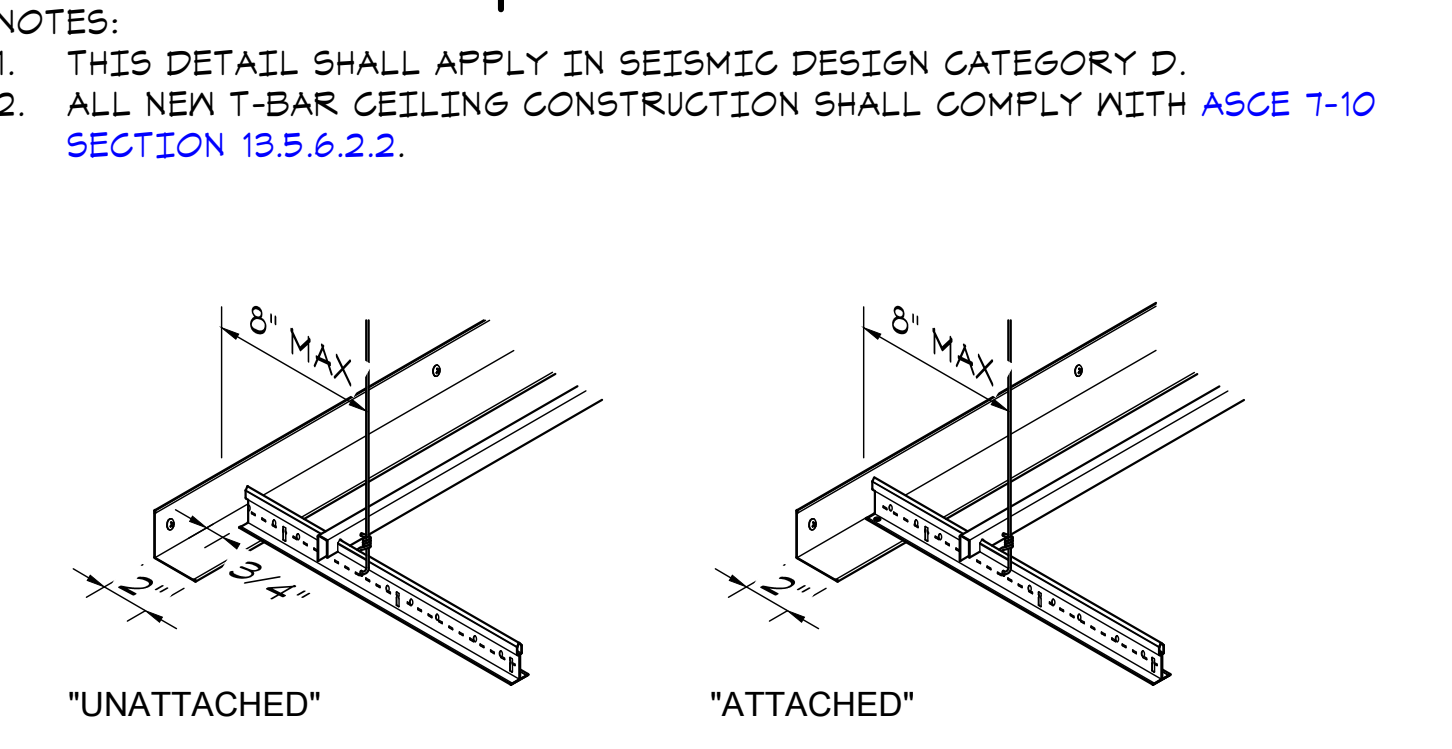
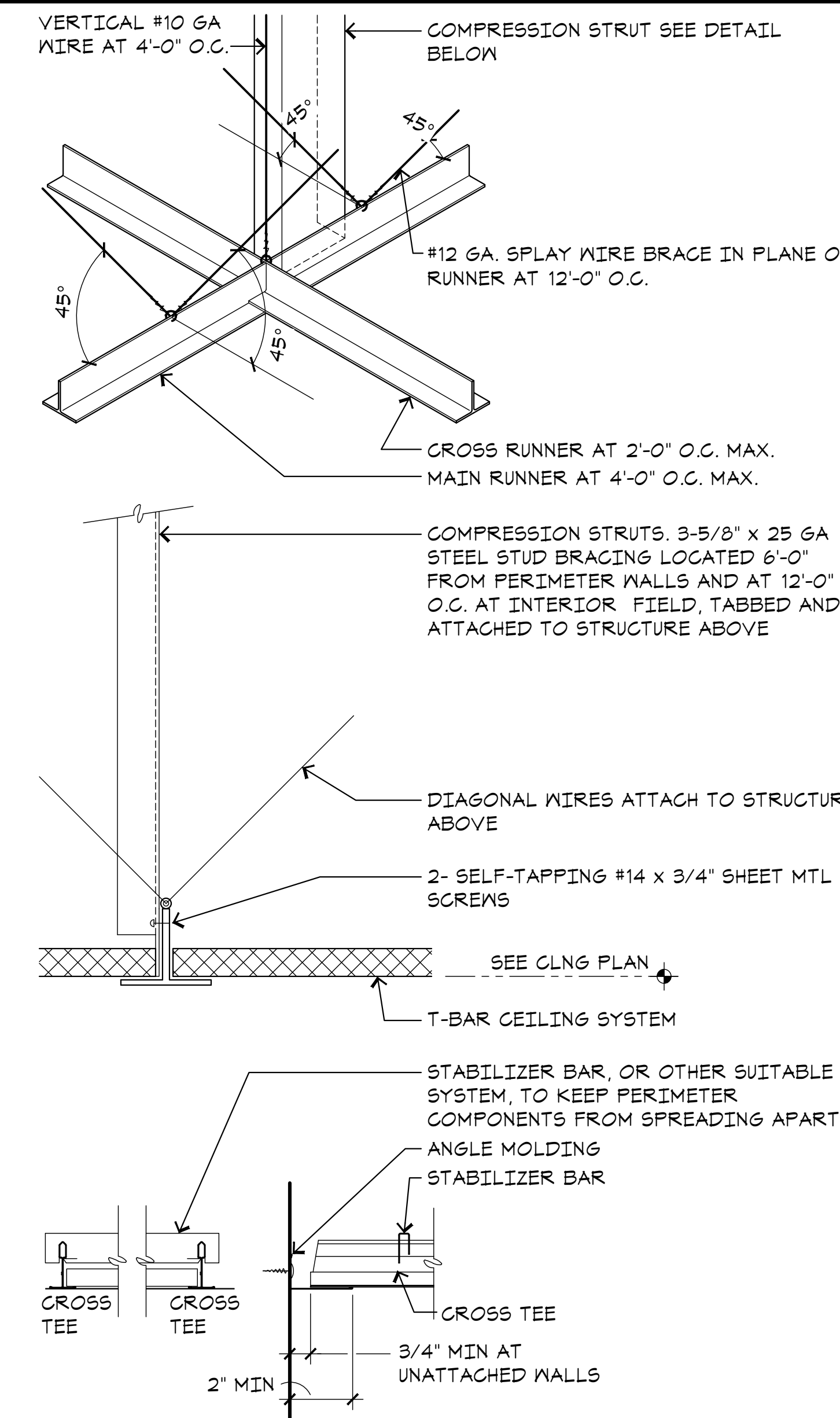


Sheet No.
A6.2

NOTES

- PERIMETER WALL ANGLE OR CHANNEL: MAIN AND CROSS RUNNERS MAY BE ATTACHED TO PERIMETER ANGLE OR CHANNEL AT TWO ADJACENT WALLS.
- MAIN RUNNERS:
 - INSTALL LEVEL TO WITHIN 1/8" IN 12'-0".
 - DUTY RATING SHALL BE AS FOLLOWS:
 - LIGHT DUTY - 5# PER LINEAR FOOT.
 - INTERMEDIATE DUTY - 12# PER LINEAR FOOT.
 - HEAVY DUTY - 16# PER LINEAR FOOT.
- CROSS RUNNERS: SHOULD BE OF SAME LOAD CARRYING CAPACITY AS MAIN RUNNERS.
- VERTICAL SUSPENSION WIRES:
 - WIRES SHALL BE TAUT. NO KINKS OR BENDS ALLOWED.
 - WIRES SHALL NOT PRESS AGAINST INSULATED DUCTS OR PIPES.
 - WIRES SHALL NOT BE SMALLER THAN NO. 12 GA. SPACED 4'-0" O.C. OR NO. 10 GA. AT 5'-0" O.C. ALONG EACH MAIN RUNNER.
 - WIRES SHALL BE ATTACHED WITH A MINIMUM OF THREE TURNS.
 - WIRES SHALL NOT HANG MORE THAN 1/8" OUT OF PLUMB UNLESS COUNTERSLOPING WIRES ARE PROVIDED.
 - WIRES SHALL NOT BEND AROUND INTERFERING MATERIAL OR EQUIPMENT.
 - PERIMETER WIRES SHALL BE INSTALLED WITHIN 8" OF WALLS ON MAIN AND CROSS RUNNERS.
 - PERIMETER WIRES MAY BE DELETED IF MAIN RUNNER IS WITHIN 12" OF WALL.
- LATERAL FORCE BRACING:
 - FOUR NO. 12 GA. WIRES SHALL BE SECURED TO THE MAIN RUNNER WITHIN 2' OF THE CROSS INTERSECTION AND SPLOYED 45° FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45° FROM THE PLANE OF THE CEILING.
 - RESTRAINT POINTS SHALL BE PLACED 12'-0" O.C. IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 6'-0" FROM EACH WALL.
 - ROOMS EXCEEDING 12'-0" IN WIDTH REQUIRE A MINIMUM OF TWO RESTRAINTS.
 - WIRES INSTALLED PERPENDICULAR TO TRUSSES MUST BE ATTACHED TO TOP CHORD.
 - WIRES INSTALLED PARALLEL TO TRUSSES MAY BE ATTACHED TO BOTTOM CHORD.
- VERTICAL STRUT BRACING
 - STRUTS SHALL BE LOCATED AT EACH LATERAL RESTRAINT POINT.
 - STRUTS SHALL BE INSTALLED PLUMB.
 - STRUTS SHALL BE FASTENED TO THE MAIN RUNNER.
 - STRUTS SHALL MEET THE SIZE REQUIREMENTS OF THE CHART BELOW UNLESS AN ALTERNATE WITH ENGINEERED CALCULATIONS IS SUBMITTED AND APPROVED.
- LIGHT FIXTURES:
 - FIXTURES MAY BE SUPPORTED BY INTERMEDIATE AND HEAVY SYSTEMS.
 - FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SYSTEM.
 - FIXTURES SHALL BE SUPPORTED BY NO. 12 GA. WIRES ATTACHED WITHIN 3" OF EACH CORNER WHEN "INTERMEDIATE" SYSTEM IS USED.
 - FIXTURE WIRES SHALL MEET THE SAME INSTALLATION REQUIREMENTS AS VERTICAL SUSPENSION WIRES.
 - FIXTURE WIRES OF MAIN AND CROSS RUNNERS OF "HEAVY" DUTY SYSTEM MAY BE OMITTED. MANUFACTURERS SPECIFICATIONS MUST BE SUBMITTED TO INSPECTOR FOR APPROVAL PRIOR TO INSTALLATION.
 - FIXTURES WEIGHING LESS THAN 56 POUNDS SHALL HAVE TWO NO. 12 GA. HANGER WIRES CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.
 - FIXTURES WEIGHING MORE THAN 56 POUNDS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE.

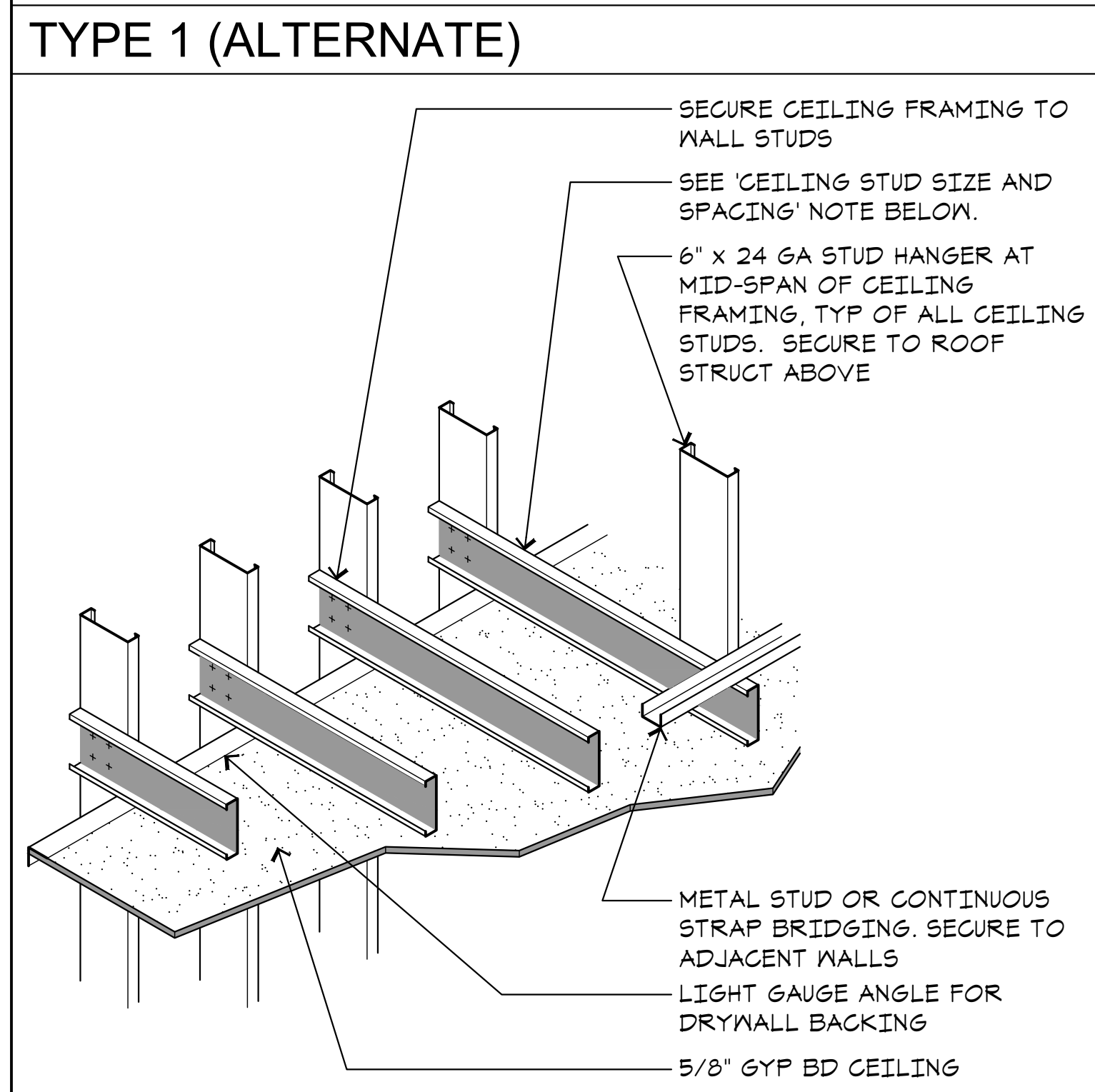
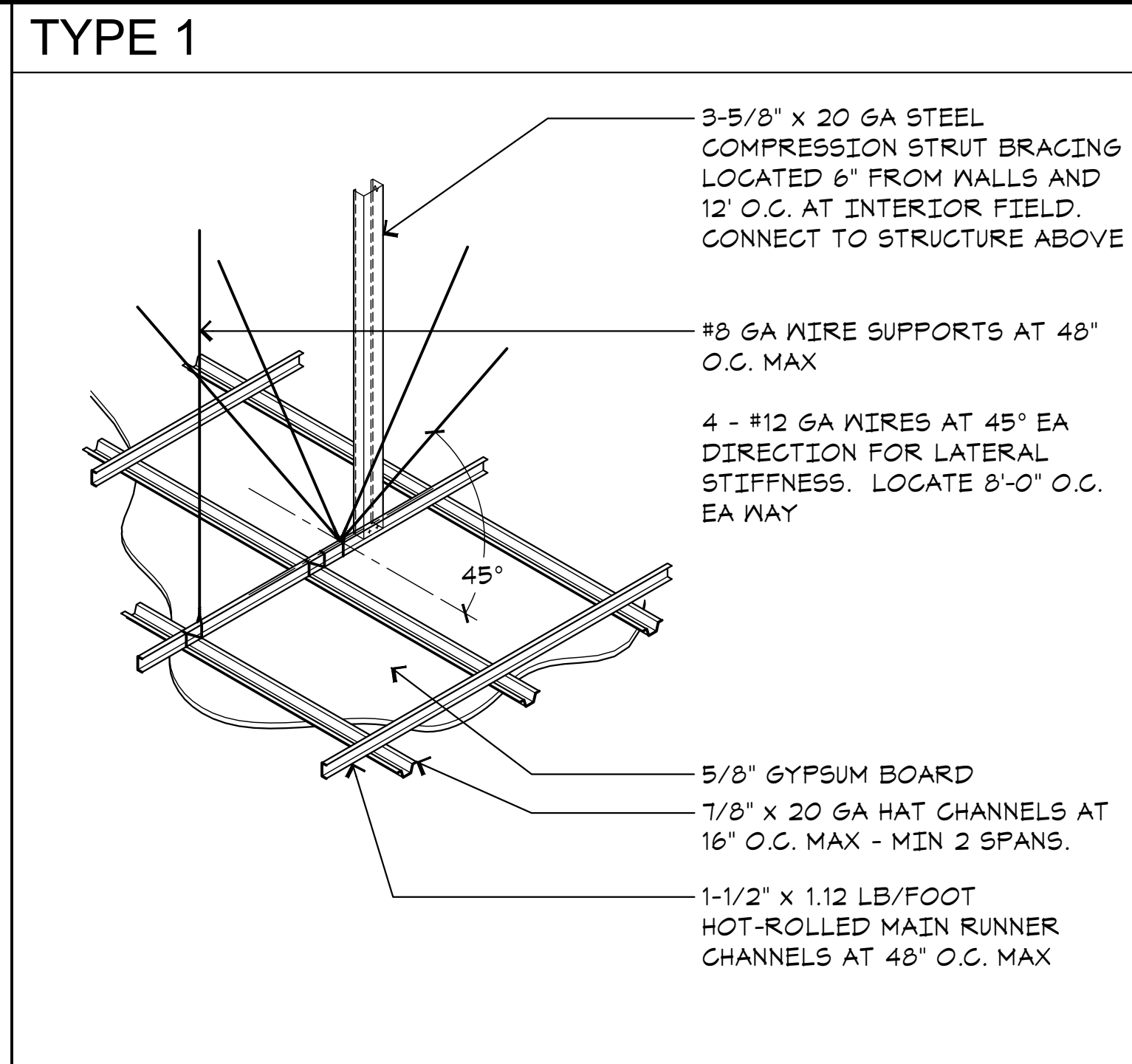
- MECHANICAL SERVICES:
 - CEILING MOUNTED AIR TERMINALS OR SERVICES WEIGHING LESS THAN 20 POUNDS SHALL BE POSITIVELY ATTACHED TO THE MAIN RUNNER.
 - TERMINALS OR SERVICES WEIGHING BETWEEN 20 POUNDS AND 56 POUNDS SHALL ALSO HAVE TWO NO. 12 GA. HANGER WIRES CONNECTED FROM THE TERMINAL TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.
- INSPECTION PROCEDURES:
 - ACOUSTICAL TILES ARE NOT TO BE INSTALLED PRIOR TO ALL REQUIRED INSPECTIONS BEING APPROVED.
 - ELECTRICAL, PLUMBING, MECHANICAL AND FIRE SPRINKLERS MUST BE APPROVED PRIOR TO CALLING FOR T-BAR INSPECTION BY BUILDING SECTION.
 - LIGHT FIXTURES MUST BE ATTACHED TO T-BAR AT TIME OF ELECTRICAL INSPECTION.
- SPECIFIC CODE REQUIREMENTS:
 - NEW T-BAR CEILING INSTALLATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE 2016 CBC, SECTIONS 808, 1613 AND ASCET-10, SECTION 13.5.6.
 - SEISMIC DESIGN CATEGORIES D THROUGH F.
 - SUSPENDED CEILINGS IN SEISMIC DESIGN CATEGORIES D THROUGH F SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ASTM C635, ASTM C636, ASTM E580, AND THE CISCA FOR SEISMIC ZONES 3-4 AS MODIFIED BY THE FOLLOWING:
 - A HEAVY DUTY T-BAR GRID SYSTEM SHALL BE USED.
 - PER ASCE 7-10 13.5.6.2.2a, THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE OR CHANNEL SHALL BE NOT LESS THAN 2 INCHES. WHERE PERIMETER SUPPORTING CLIPS ARE USED, THEY SHALL BE QUALIFIED IN ACCORDANCE WITH APPROVED TEST CRITERIA. IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE OR CHANNEL. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A 0.75 INCH CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE OR CHANNEL.
 - PER ASCE 7-10 13.5.6.2.2b, FOR CEILING AREAS EXCEEDING 2,500 SF, A SEISMIC SEPARATION JOINT OR FULL HEIGHT PARTITION THAT BREAKS THE CEILING UP INTO AREAS NOT EXCEEDING 2,500 SF, EACH WITH A RATIO OF THE LONG TO SHORT DIMENSION LESS THAN OR EQUAL TO 4, SHALL BE PROVIDED UNLESS STRUCTURAL ANALYSES ARE PERFORMED OF THE CEILING BRACING SYSTEM FOR THE PRESCRIBED SEISMIC FORCES THAT DEMONSTRATE CEILING PENETRATIONS AND CLOSURE ANGLES OR CHANNELS PROVIDE SUFFICIENT CLEARANCE TO ACCOMMODATE THE ANTICIPATED LATERAL DISPLACEMENT. EACH AREA SHALL BE PROVIDED WITH CLOSURE ANGLES OR CHANNELS IN ACCORDANCE WITH SECTION 13.5.6.2.2a AND HORIZONTAL RESTRAINTS OR BRACING.
 - FOR CEILING AREAS EXCEEDING 1,000 SF, PROVIDE LATERAL FORCE BRACING PER ASTM E580, SECTION 5.2.8.
 - PER ASTM E580 5.2.8.4, RIGID BRACES THAT HAVE BEEN DESIGNED TO LIMIT RELATIVE LATERAL DEFLECTIONS AT THE POINT OF ATTACHMENT OF THE CEILING GRID TO LESS THAN 0.25 IN. ARE PERMITTED TO BE USED IN THE PLACE OF DIAGONAL SPLOY WIRES.
 - PER ASTM E580 5.2.8.5, EXCEPT WHERE RIGID BRACING IS USED OR SUBSTANTIATING DESIGN CALCULATIONS HAVE SHOWN THAT LATERAL DEFLECTIONS ARE LIMITED TO LESS THAN 0.25 IN., SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2-IN. OVERSIZE RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1 IN. IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE 1 IN. OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED WITHOUT THE OVERSIZED RING, SLEEVE OR ADAPTER.
 - PER ASTM E580 5.2.8.6, CHANGES IN CEILING PLANE ELEVATION SHALL HAVE INDEPENDENT POSITIVE BRACING.
 - PER ASTM E580 5.2.8.7, CABLE TRAYS & ELECTRICAL CONDUITS SHALL BE SUPPORTED AND BRACED INDEPENDENTLY OF THE CEILING.



NOTES:
 1. THIS DETAIL SHALL APPLY IN SEISMIC DESIGN CATEGORY D.
 2. ALL NEW T-BAR CEILING CONSTRUCTION SHALL COMPLY WITH ASCE 7-10 SECTION 13.5.6.2.2.

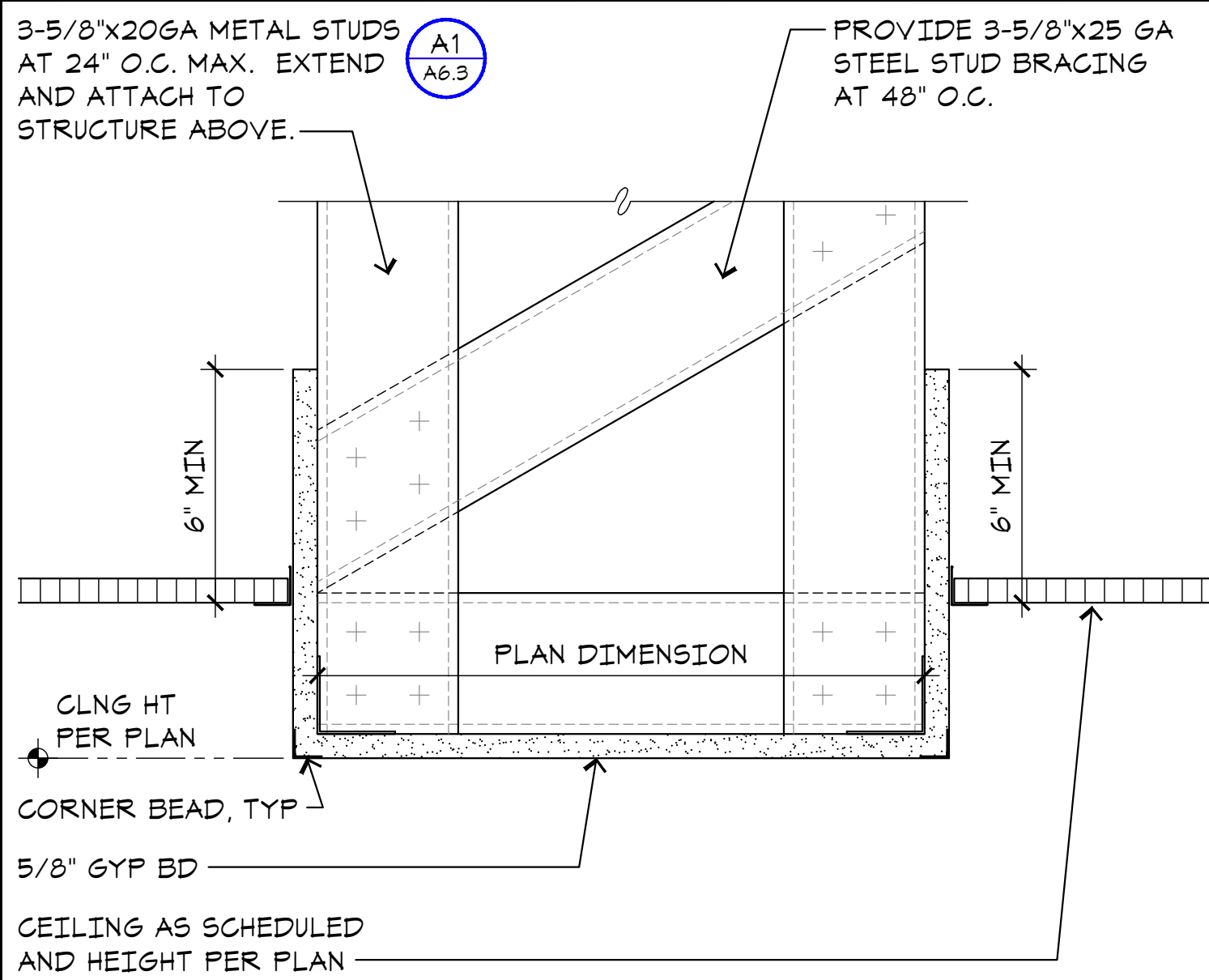
MAXIMUM RECOMMENDED LENGTHS FOR VERTICAL STRUTS

EMT CONDUIT	UP TO
1/2" EMT CONDUIT	6'-0"
3/4" EMT CONDUIT	8'-6"
1" EMT CONDUIT	10'-0"
METAL STUD	UP TO
1 5/8" METAL STUD (25 GA)	6'-2"
2 1/2" METAL STUD (25 GA)	10'-6"



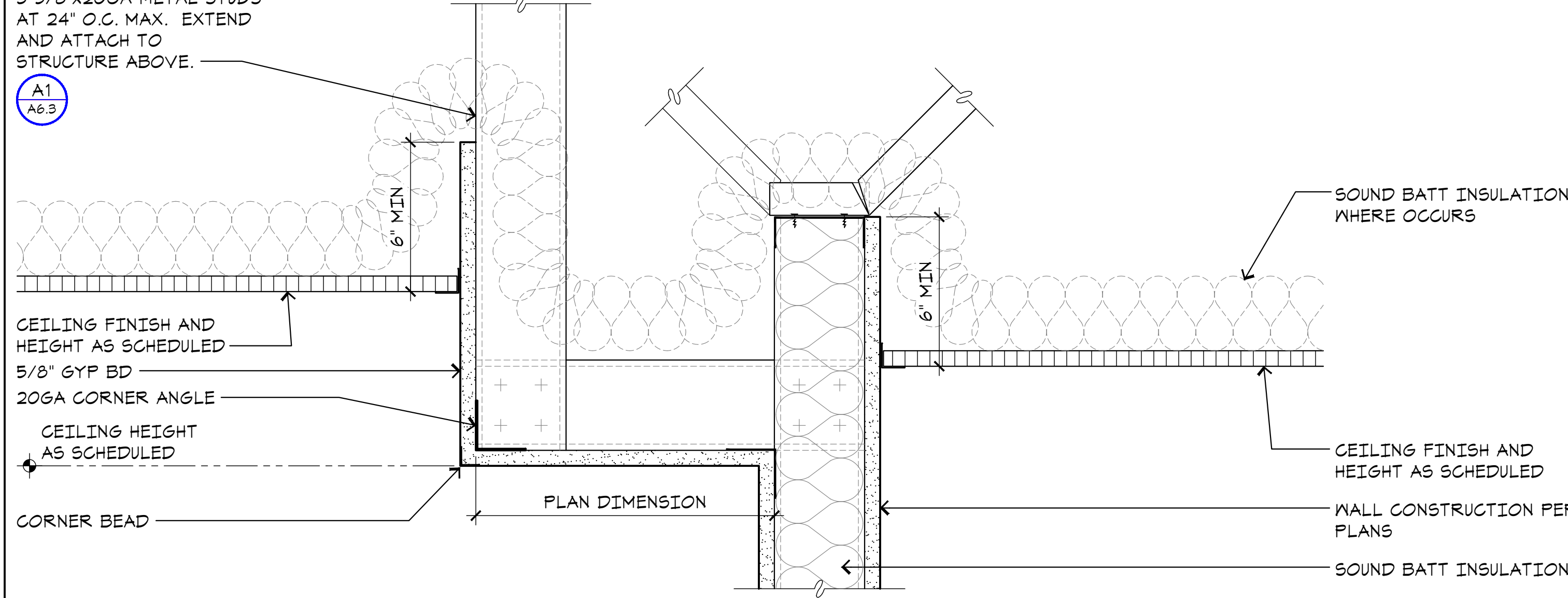
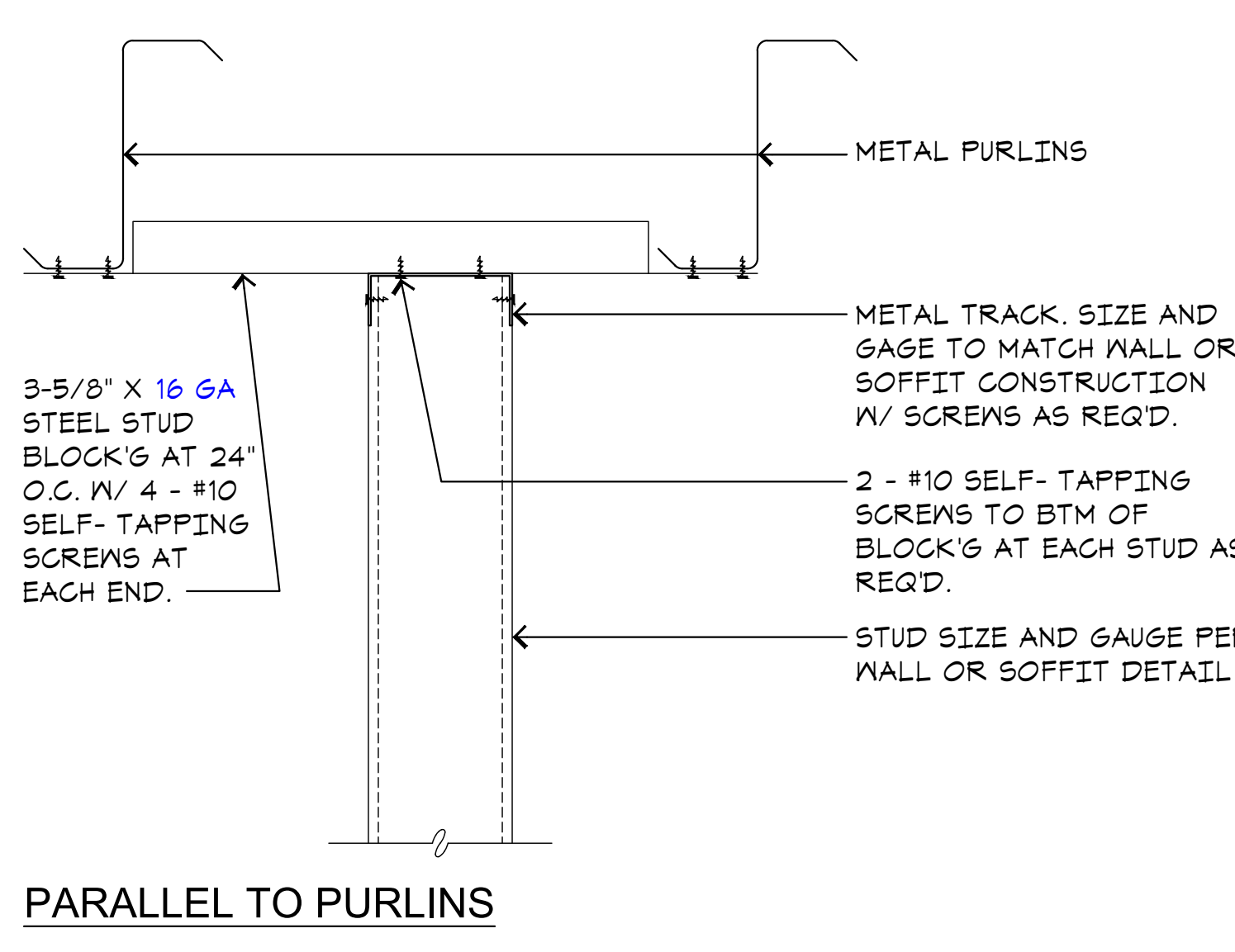
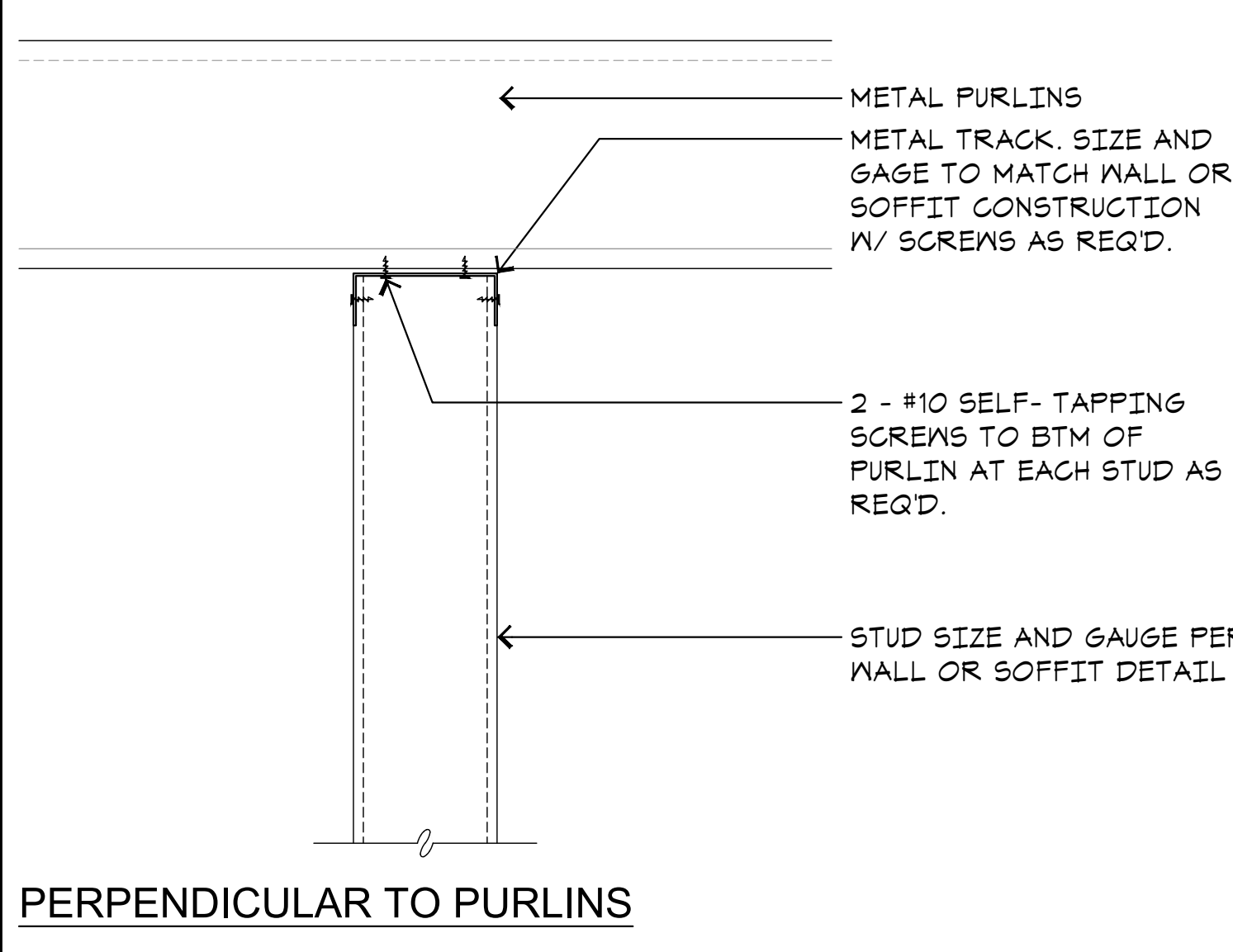
- CEILING STUD SIZE AND SPACING:
- USE 3-5/8"x20GA C-STUDS AT 24" O.C. MAX FOR SPANS UP TO 6'-0".
 - USE 6"x20GA C-STUDS AT 24" O.C. MAX FOR SPANS UP TO 10'-0".
 - USE 6"x20GA C-STUDS AT 16" O.C. FOR SPANS UP TO 12'-0".
 - USE 6005162-33 CEILING JOISTS AT 16" O.C. MAX SPACING WITH MID-SPAN FULL DEPTH BLOCKING FOR SPANS UP TO 20'-0".

G17 GYPSUM BOARD CEILING
 SCALE: NONE



E1 SOFFIT
 SCALE: 3"=1'-0"

E5 TYPICAL SUSPENDED CEILING DETAILS
 SCALE: NONE



A9 SOFFIT AT WALL
 SCALE: 3"=1'-0"

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Project:
 Sheriff Area 2 Sub-Station
 1125 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04-.05, and -.06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 1900293 / 19003
 FILE NAME: 19003_A6-3_infr_Detail

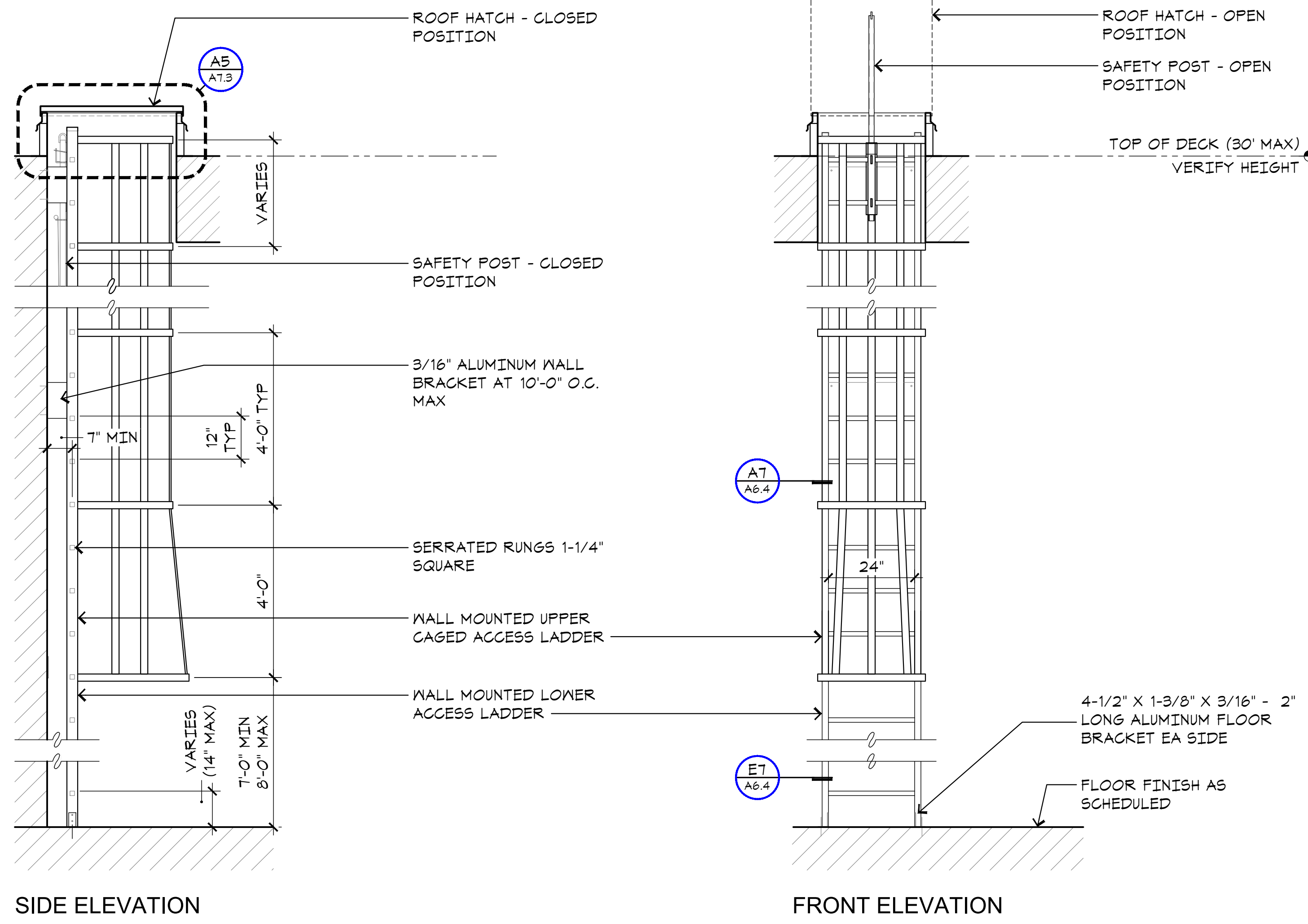
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Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

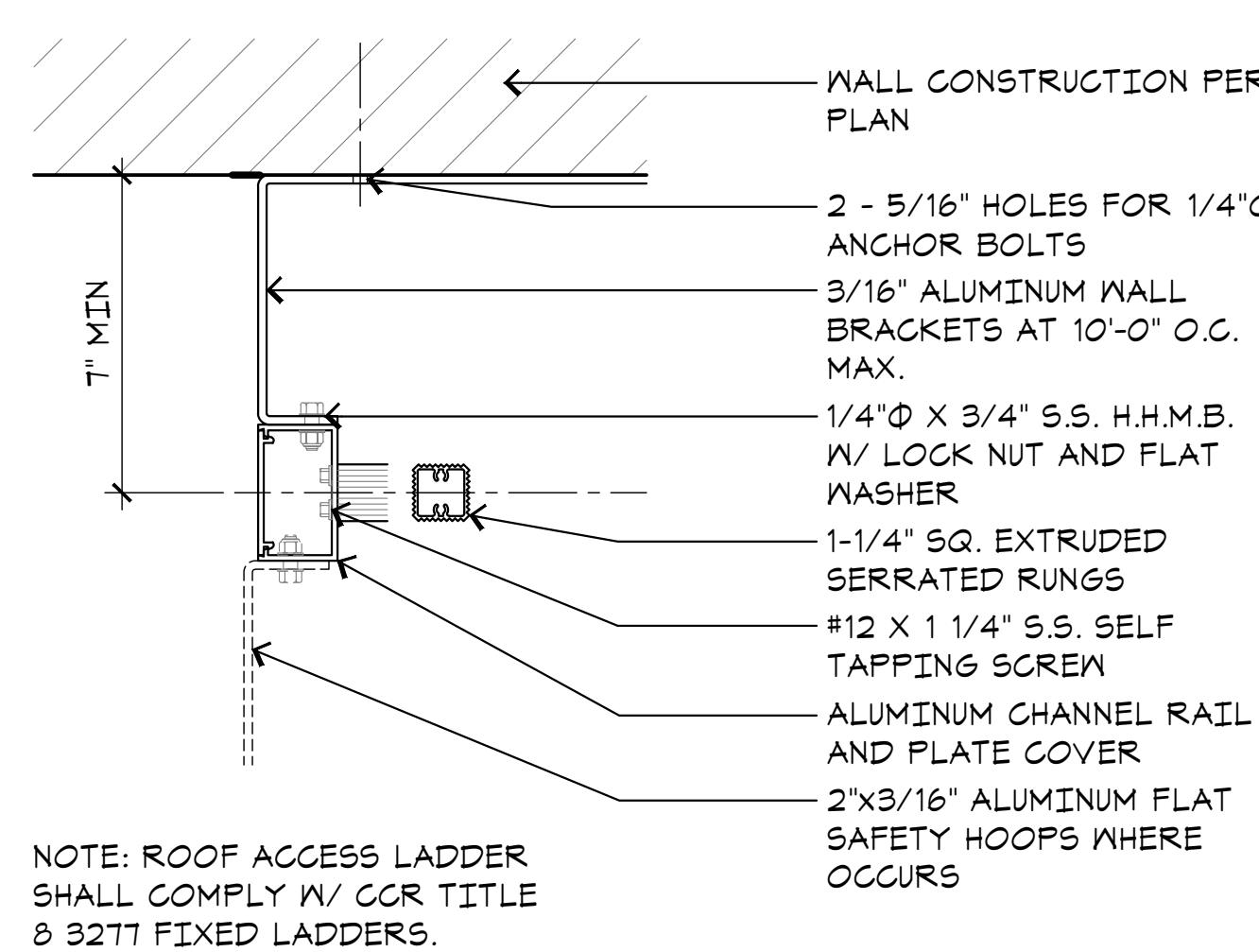
Sheet No.
A6.3

A1 STUD ATTACHMENT TO STRUCTURE ABOVE
 SCALE: 3"=1'-0"

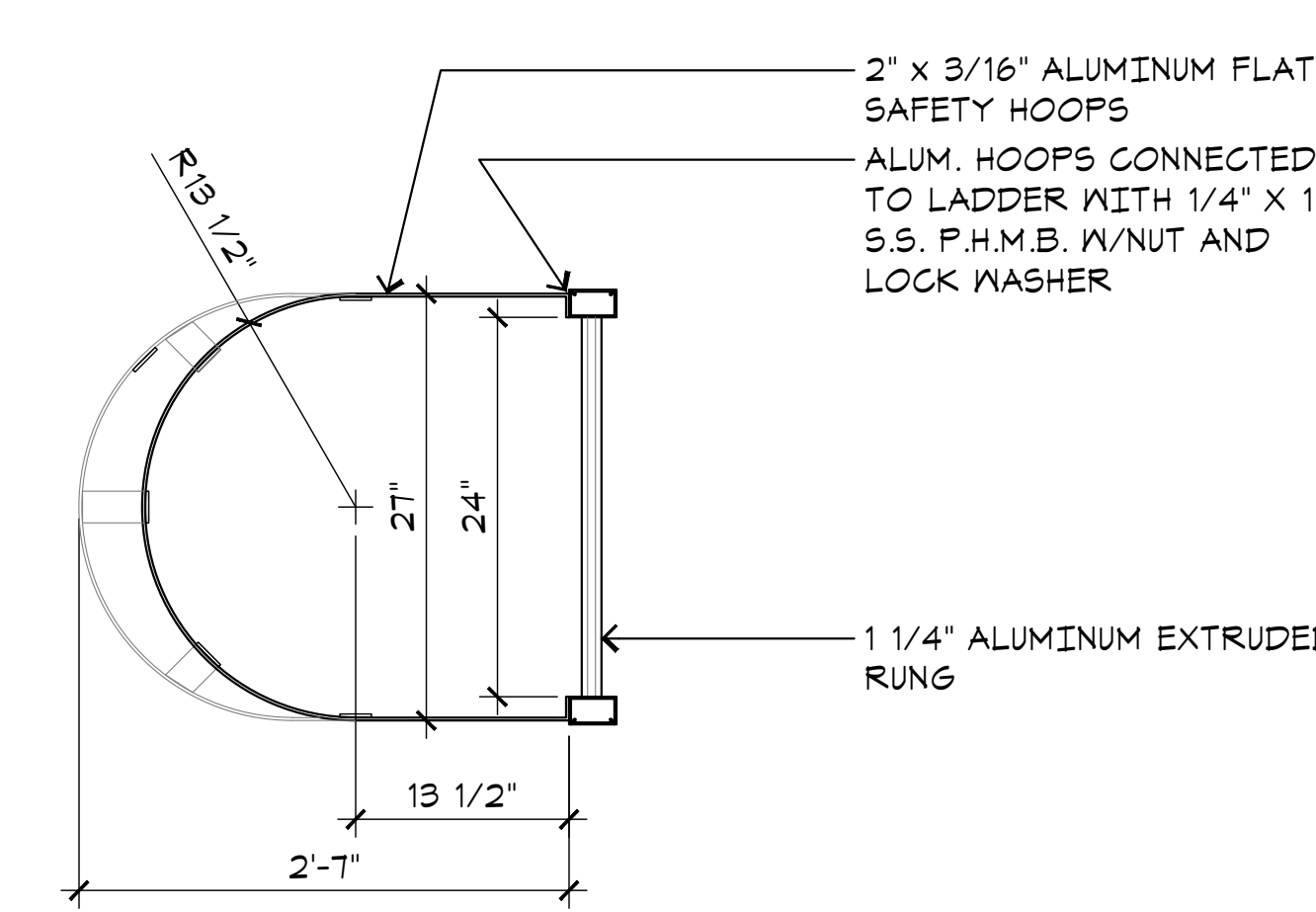
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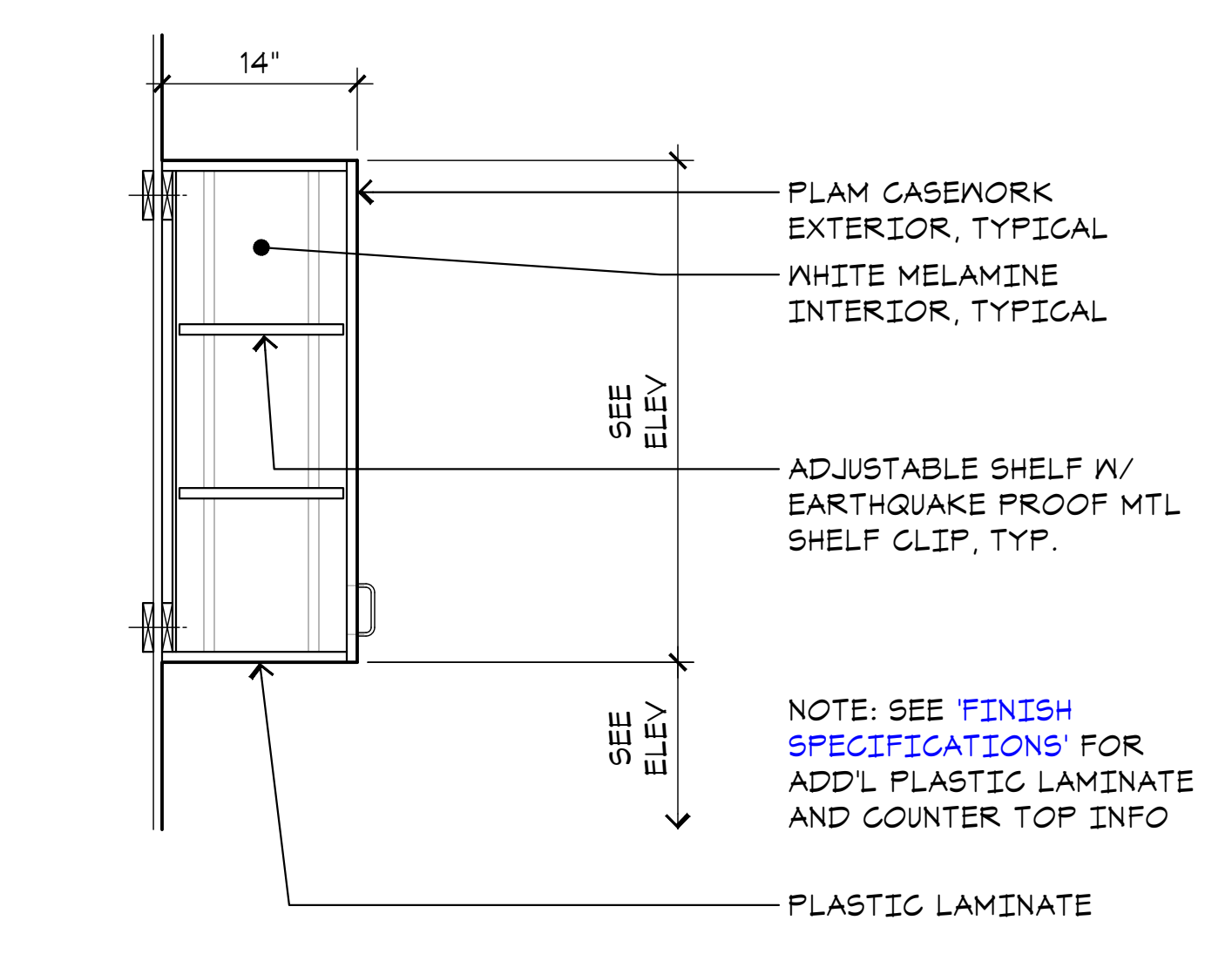
J3 ROOF ACCESS LADDER
 A6.4 SCALE: 3/4"=1'-0"



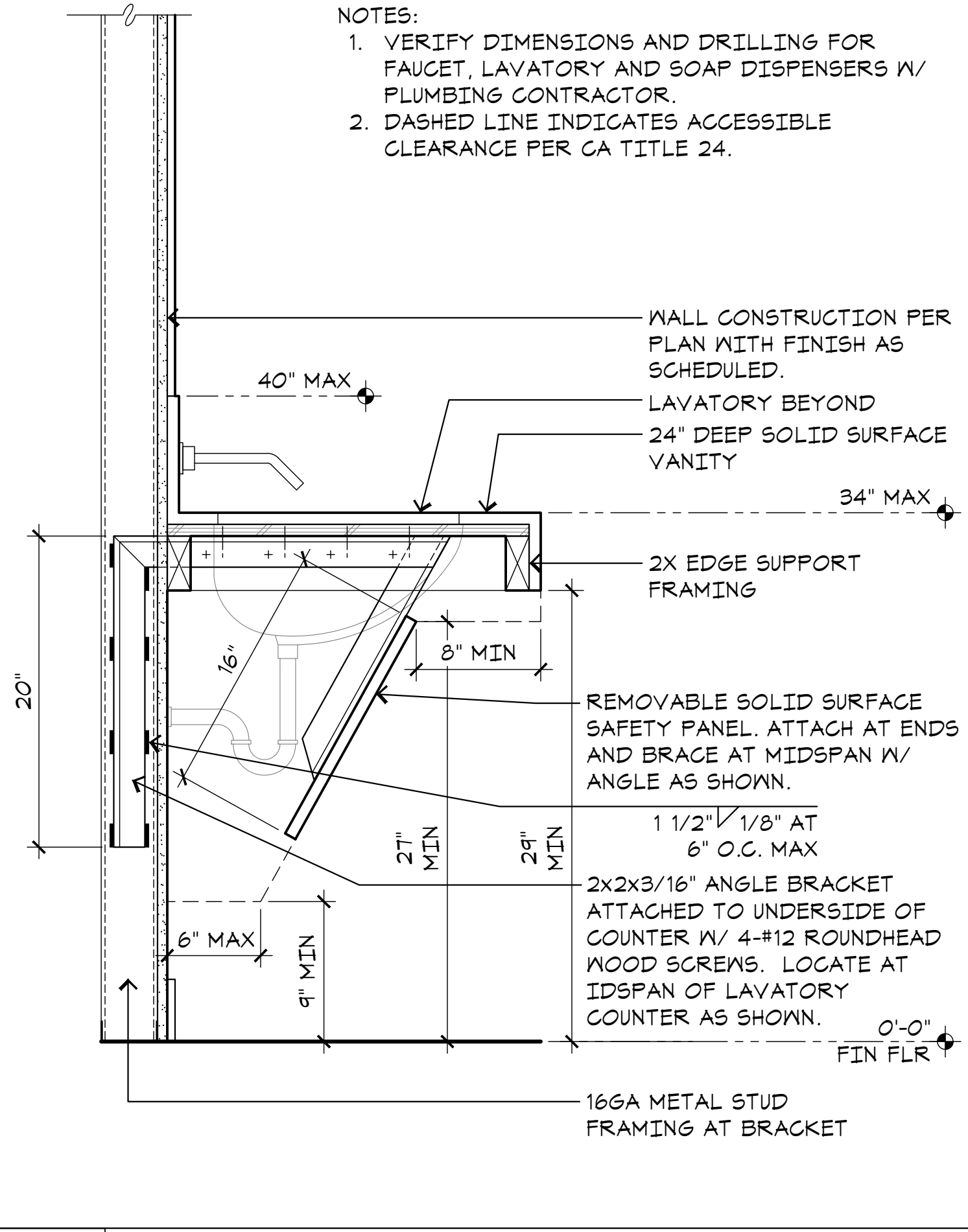
E7 DETL AT ACCESS LADDER
 A6.4 SCALE: 3"=1'-0"



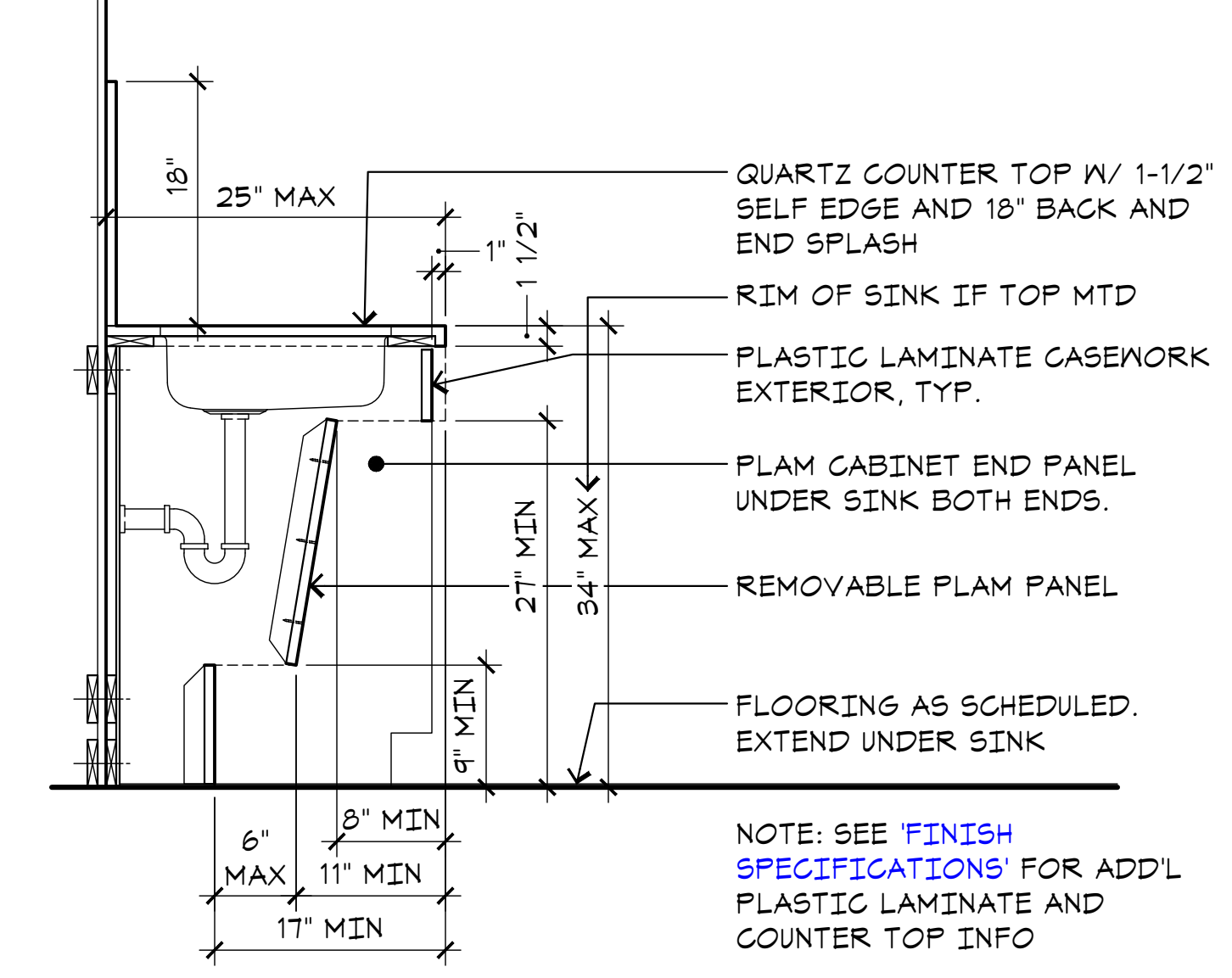
A7 LADDER SAFETY CAGE
 A6.4 SCALE: 1"=1'-0"



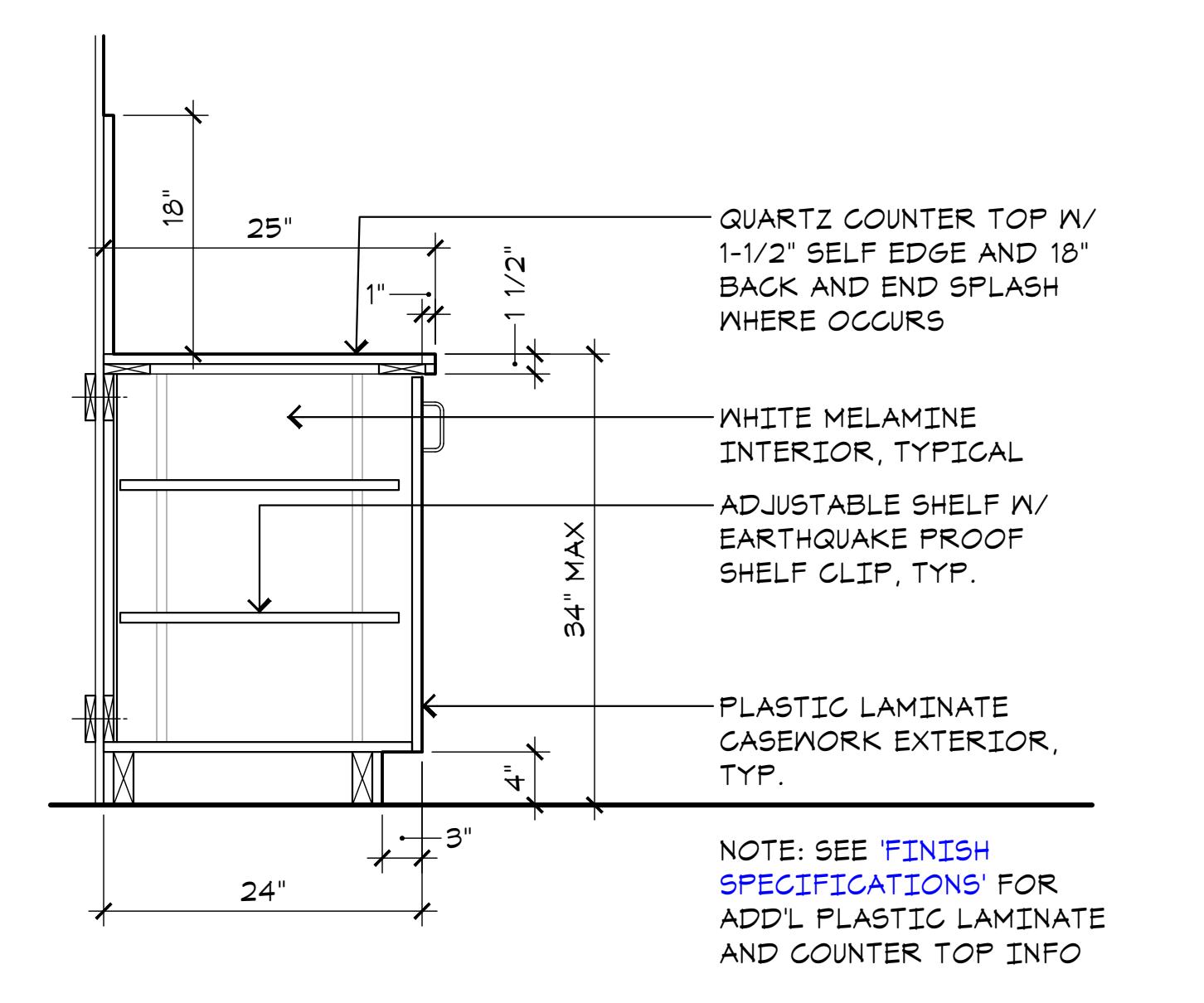
N11 UPPER CABINET DETAIL
 A6.4 SCALE: 1"=1'-0"



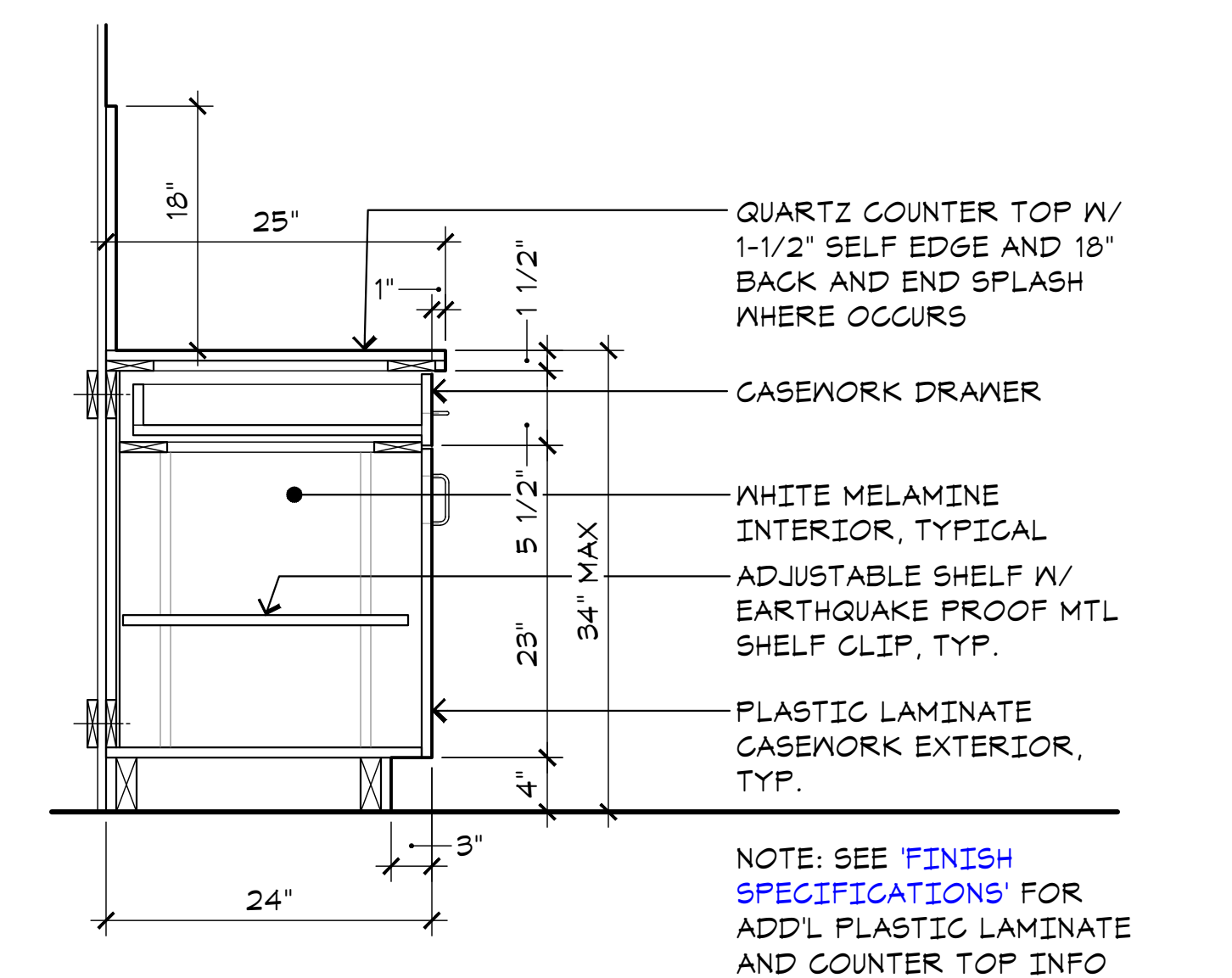
G11 SECTION AT VANITY
 A6.4 SCALE: 1-1/2"=1'-0"



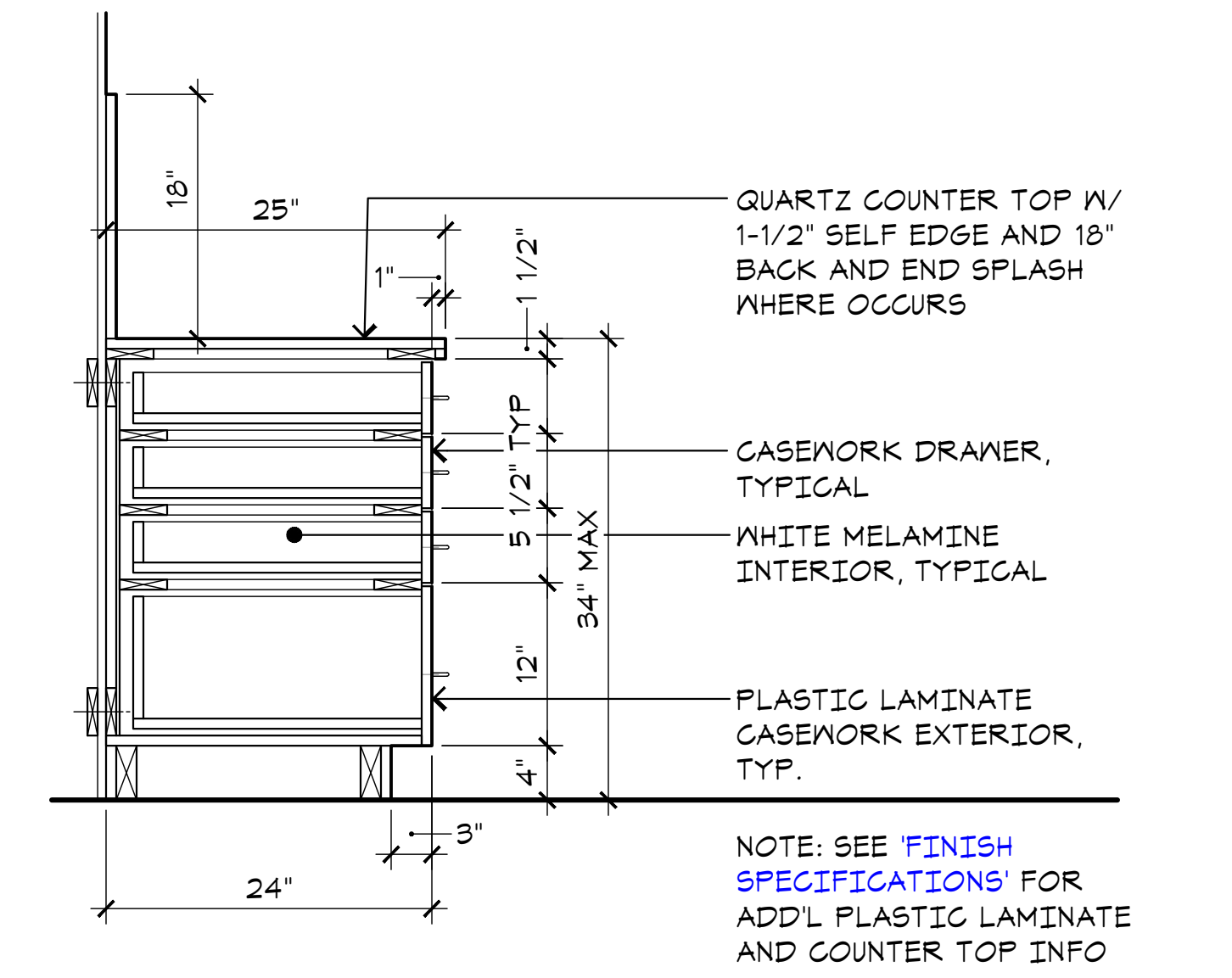
N15 ACC BASE CABINET DETL
 A6.4 SCALE: 1"=1'-0"



J15 BASE CABINET DETAIL
 A6.4 SCALE: 1"=1'-0"



E15 BASE CABINET DETAIL
 A6.4 SCALE: 1"=1'-0"



A15 BASE CABINET DETAIL
 A6.4 SCALE: 1"=1'-0"

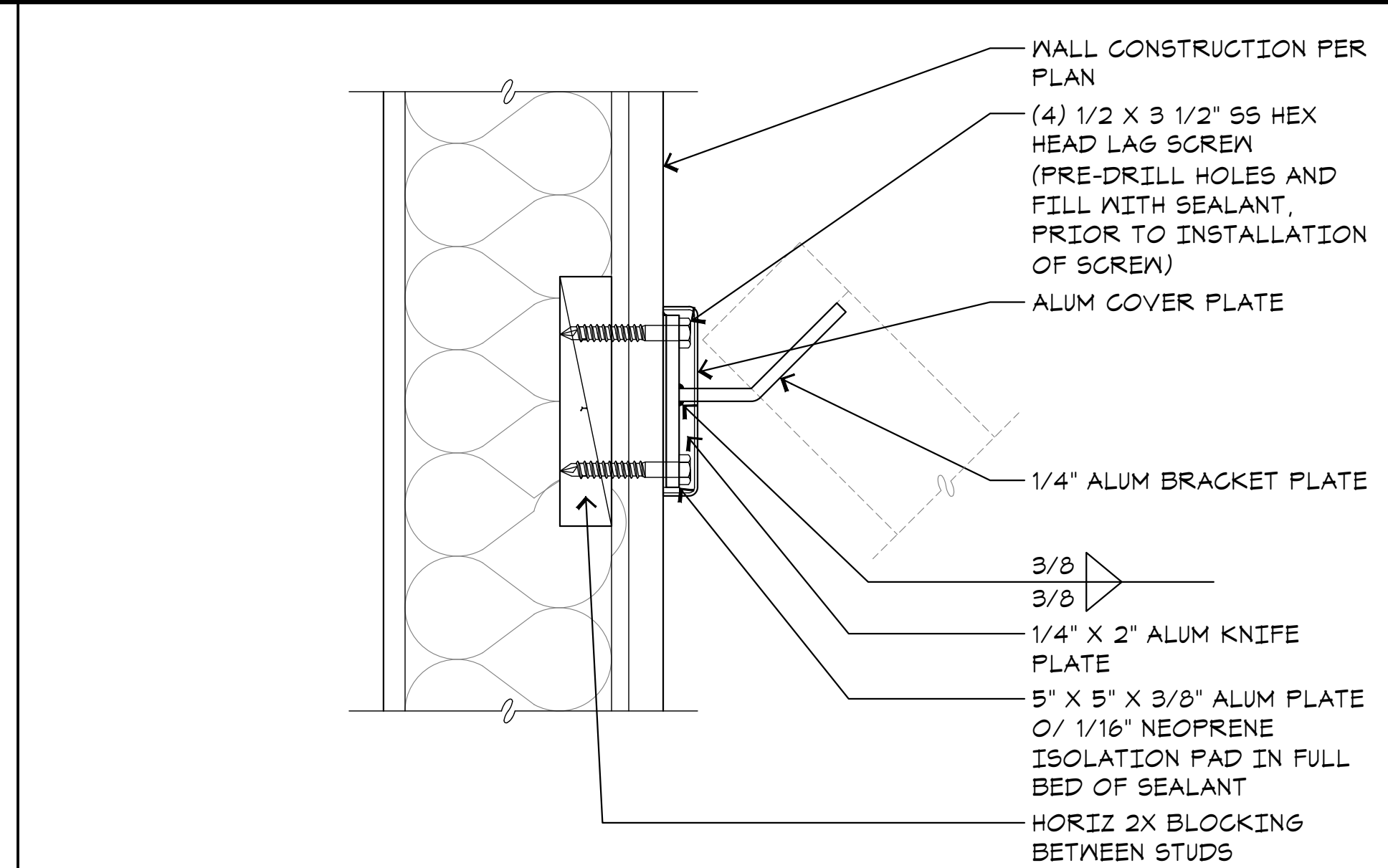
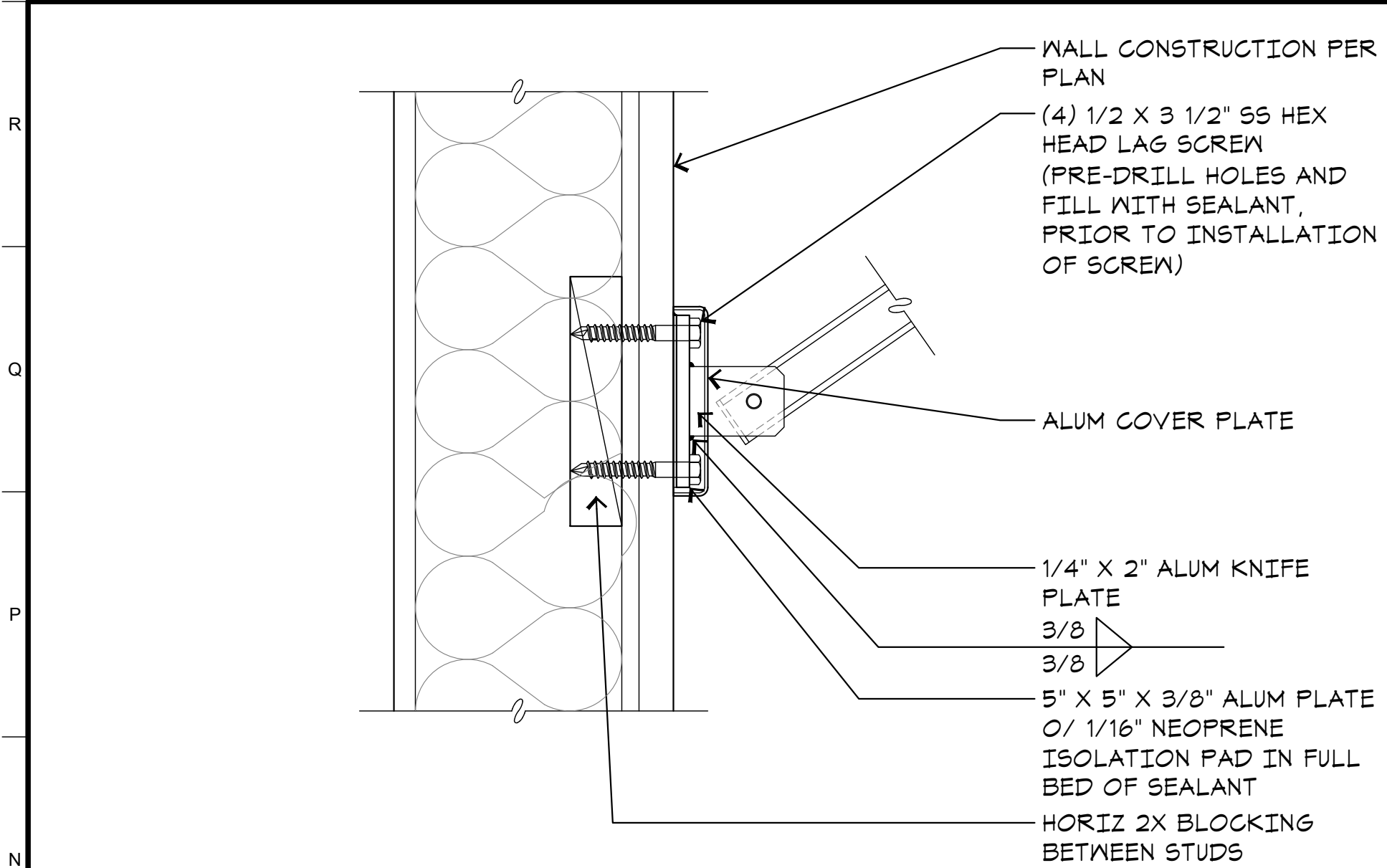


Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.02.2020
 PROJECT NO: 19003 / 19003
 FILE NAME: 19003_A6-4_inr_Detl

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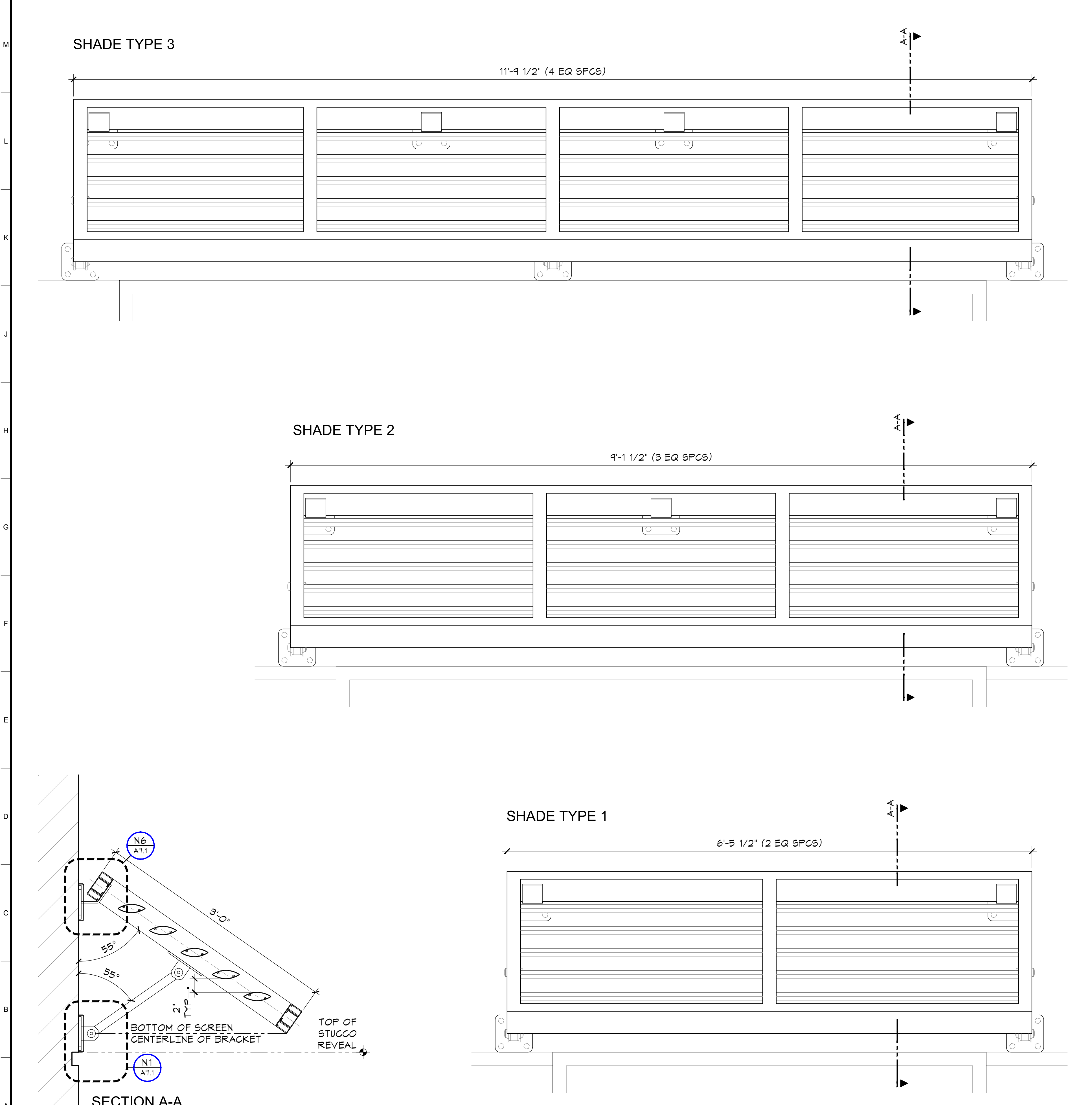


Sheet No.
A6.4

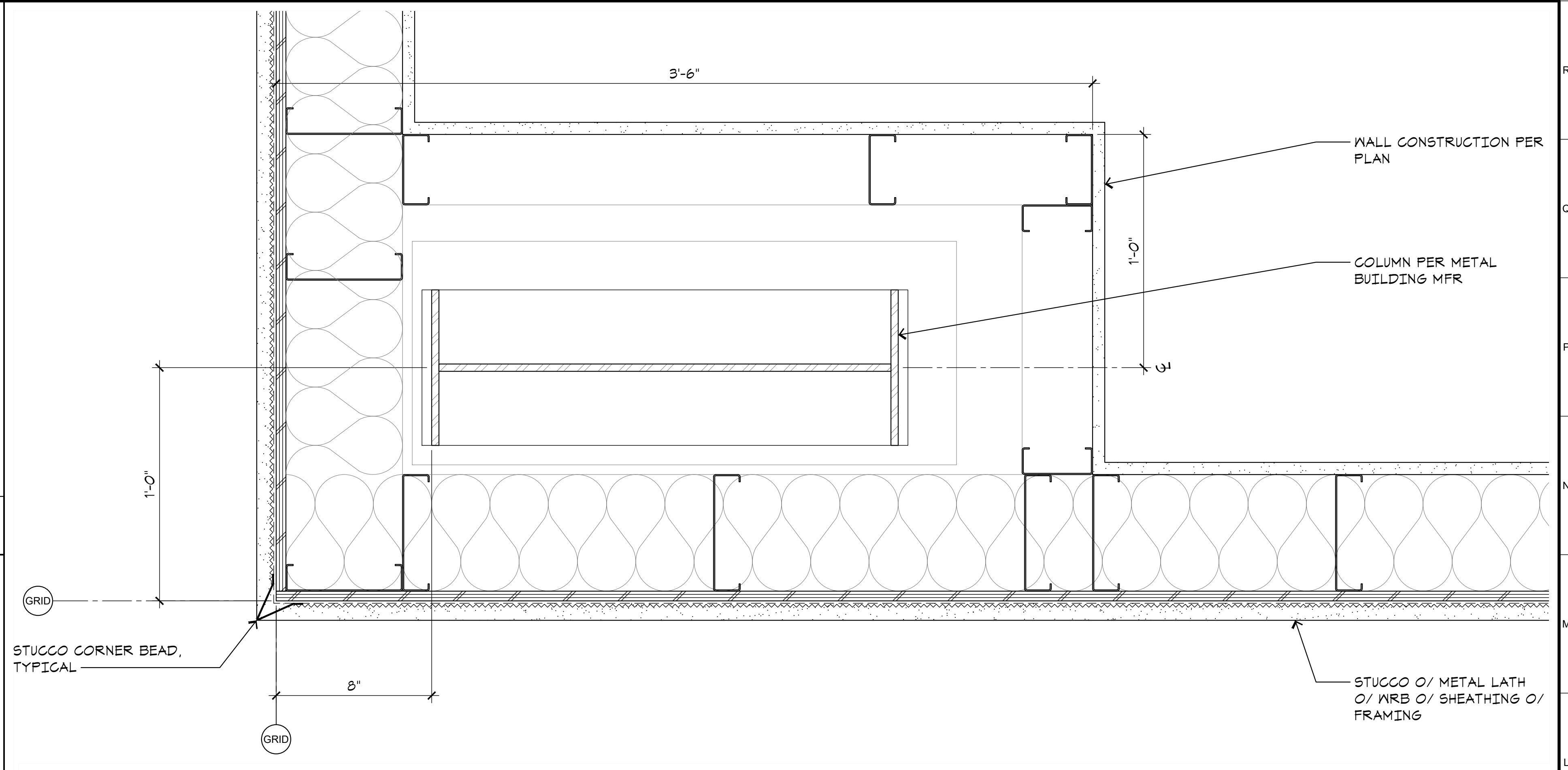


N1 ALUMINUM SUNSHADE DETAIL
A7.1 SCALE: 3"=1'-0"

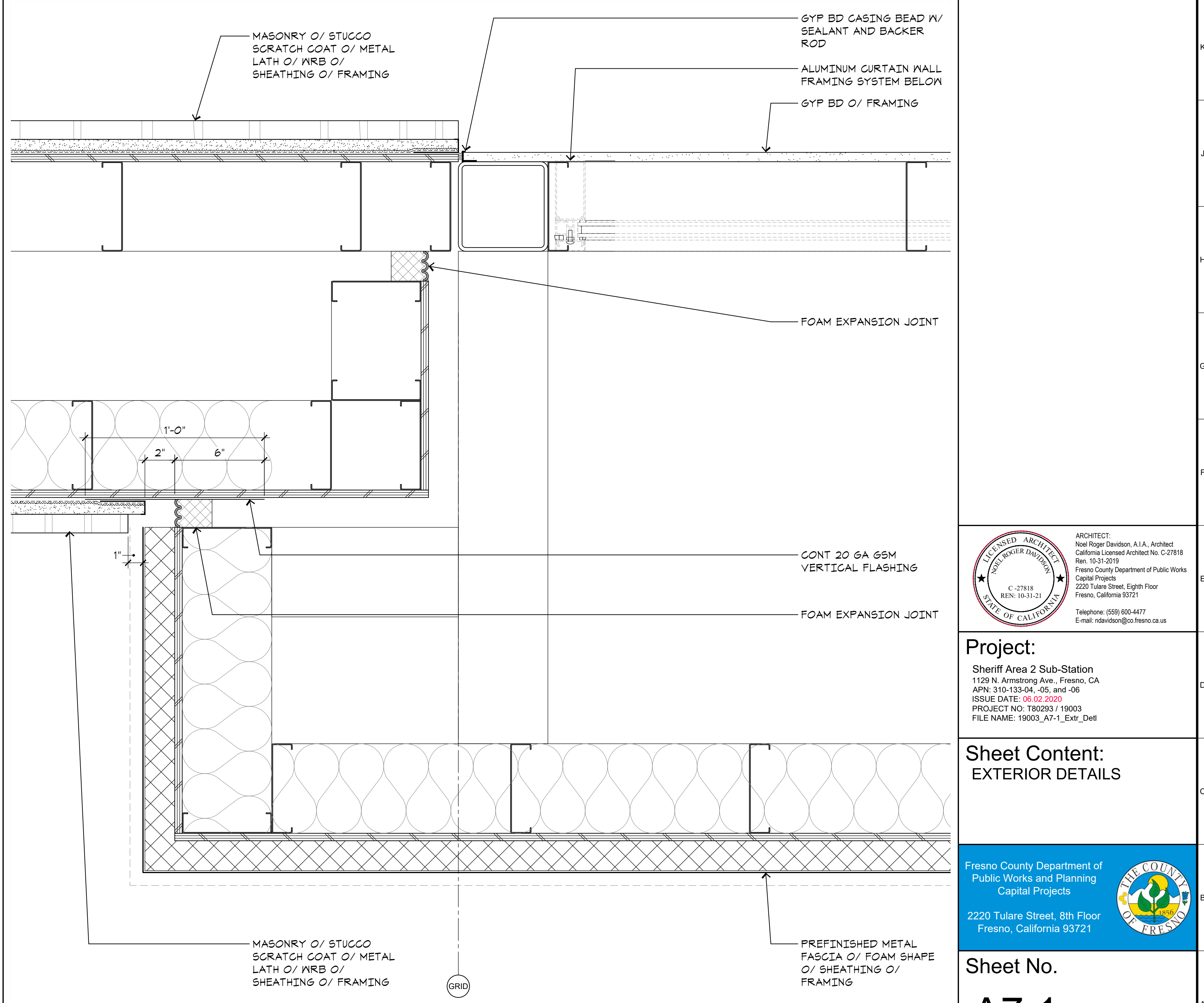
N6 ALUMINUM SUNSHADE DETAIL
A7.1 SCALE: 3"=1'-0"



A1 ALUMINUM SUNSHADE
A7.1 SCALE: 1-1/2"=1'-0"



L11 PLAN DETAIL
A7.1 SCALE: 3"=1'-0"



A11 PLAN DETAIL
A7.1 SCALE: 3"=1'-0"

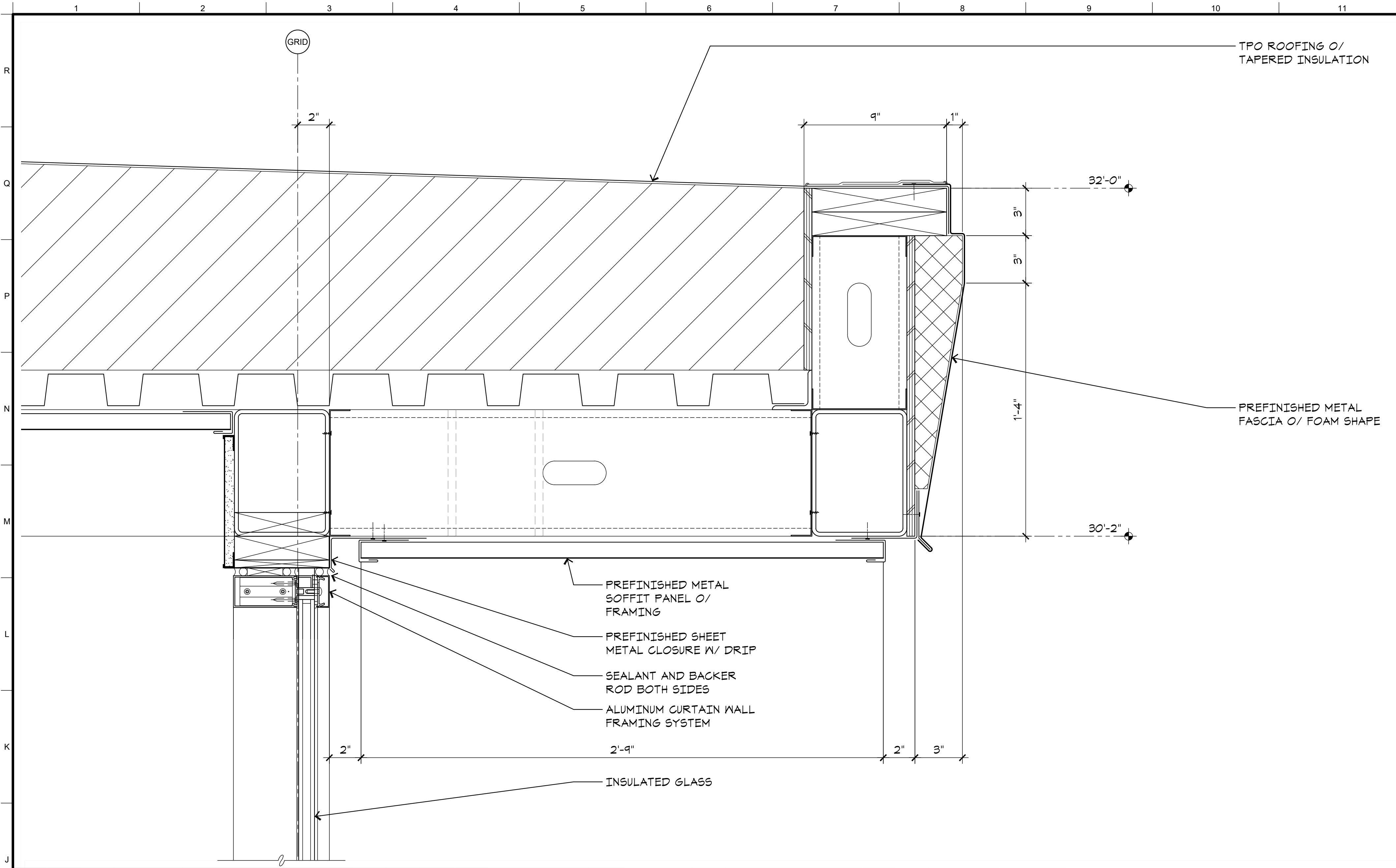


Project:
Sheriff Area 2 Sub-Station
1128 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 06.02.2020
PROJECT NO: 19003 / 19003
FILE NAME: 19003_A7-1_Ext_Detail

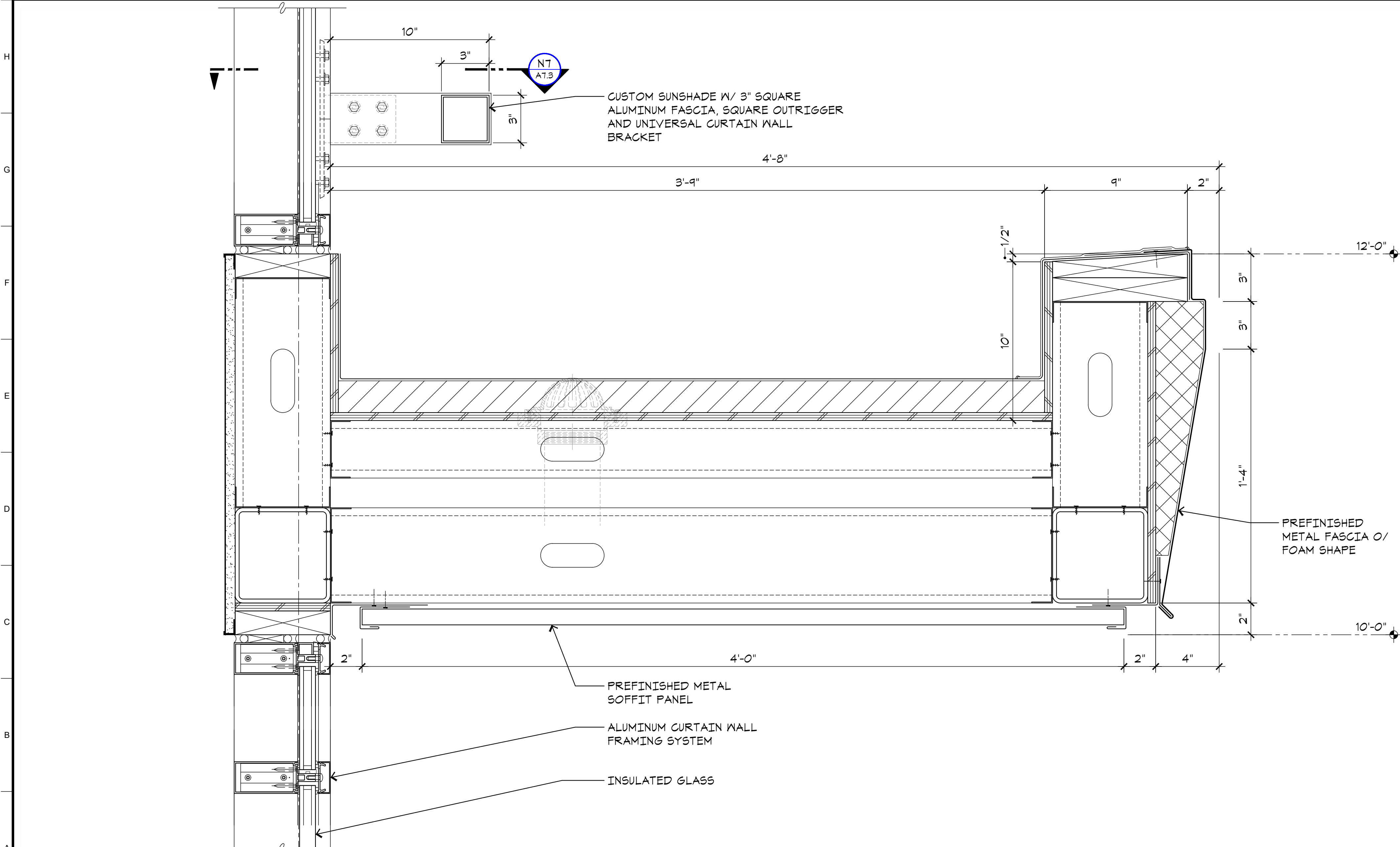
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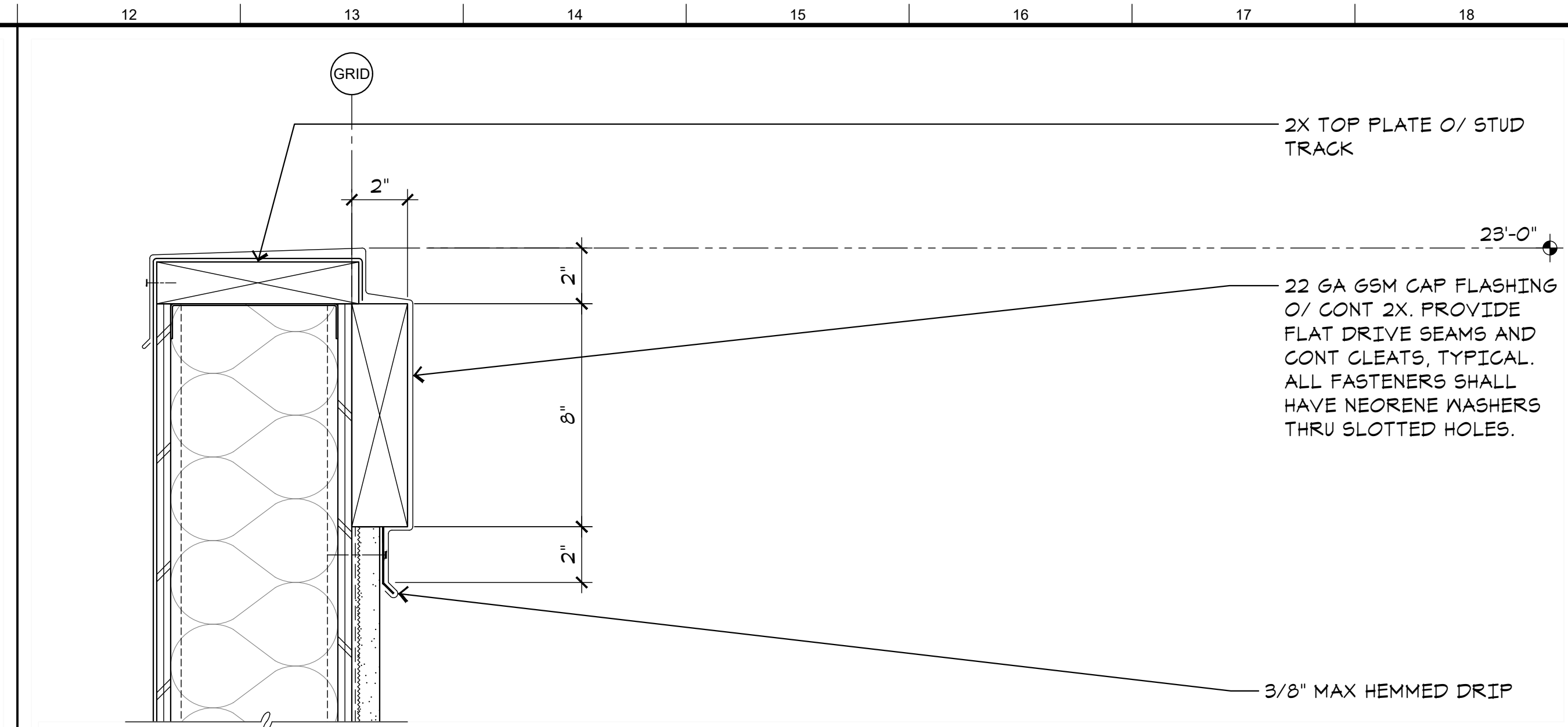
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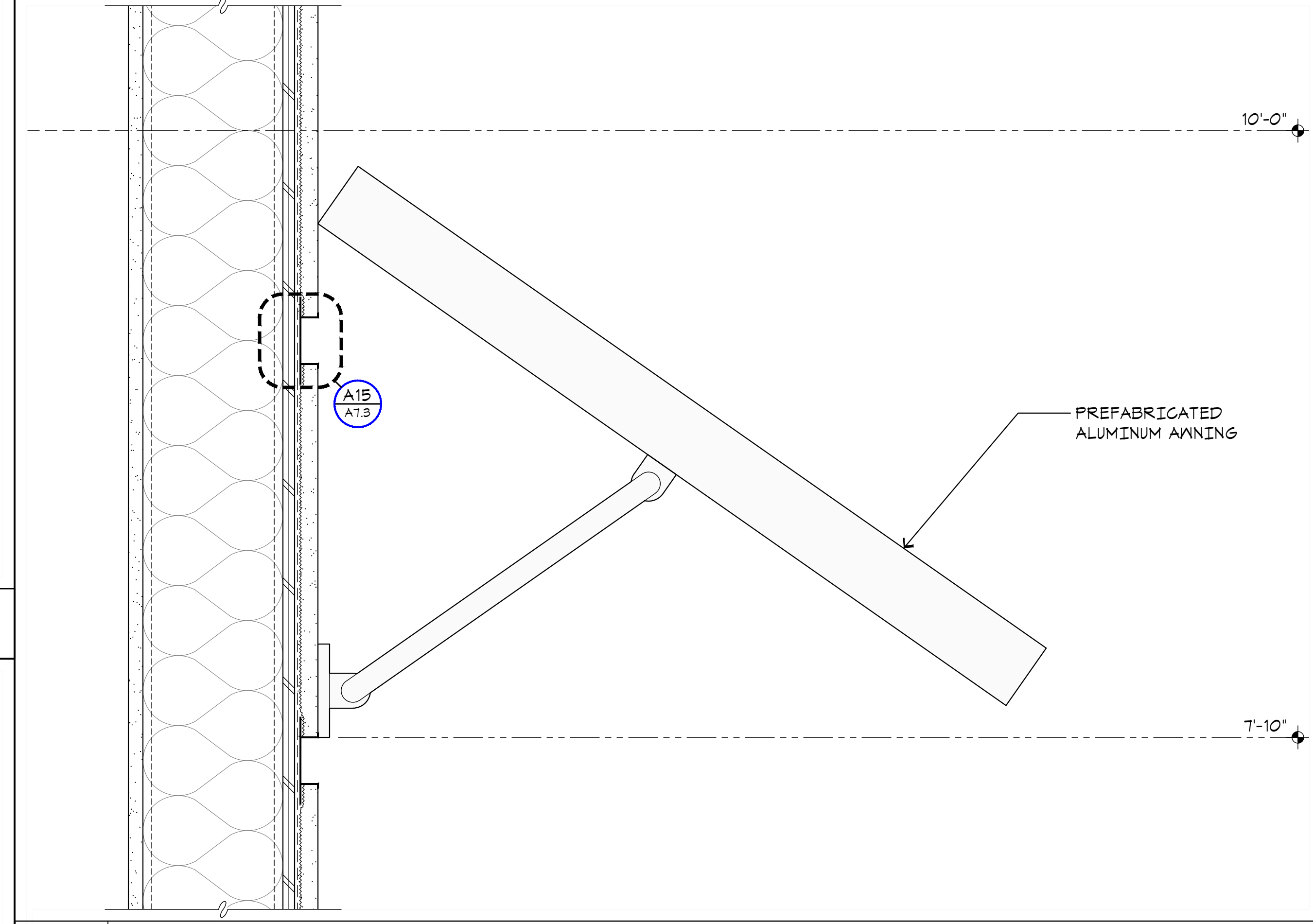
J1 VERTICAL DETAIL
A7.2 SCALE: 3"=1'-0"



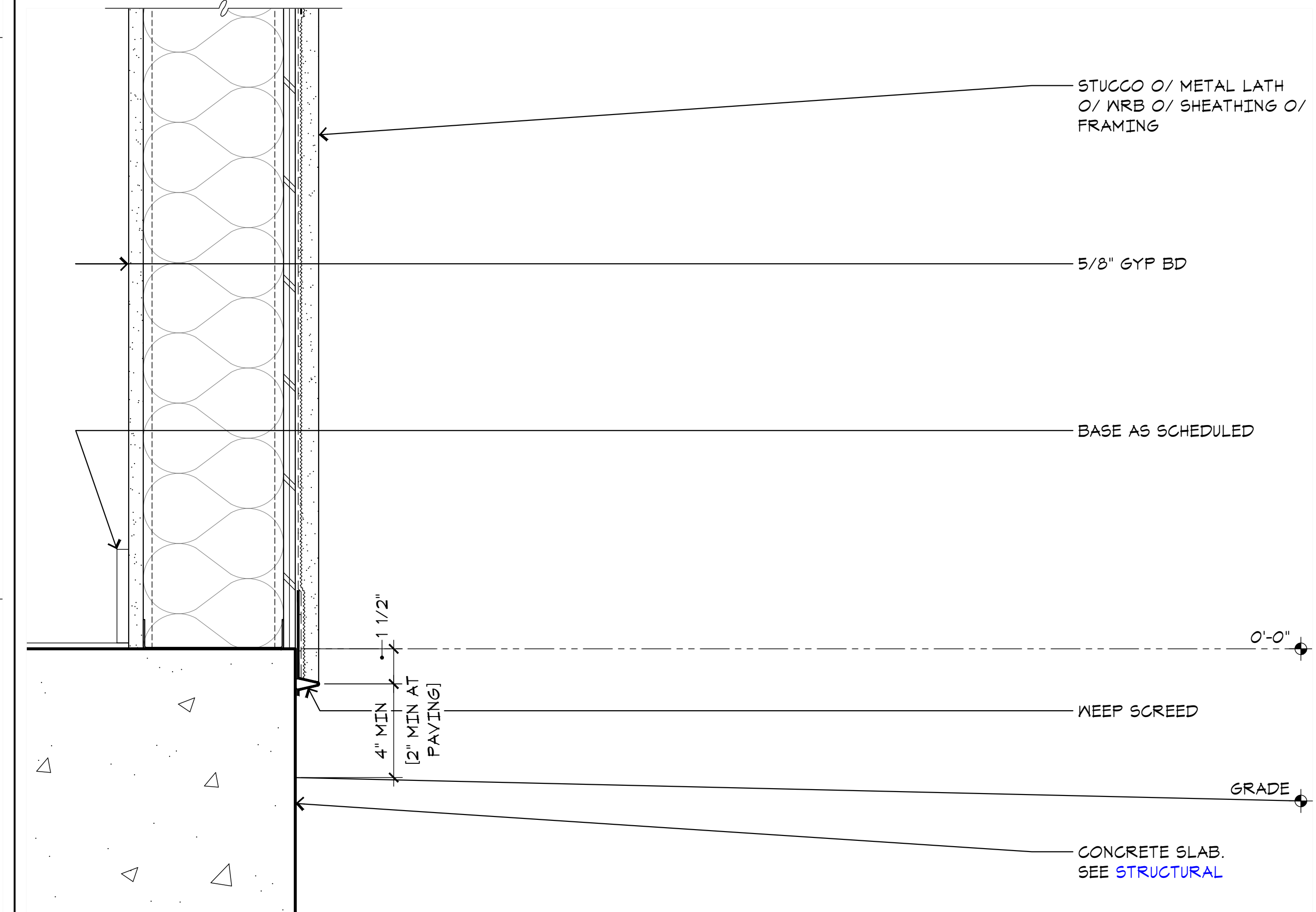
A1 VERTICAL DETAIL
A7.2 SCALE: 3"=1'-0"



N10 DETAIL
A7.2 SCALE: 3"=1'-0"



G10 DETAIL
A7.2 SCALE: 3"=1'-0"



A10 DETAIL
A7.2 SCALE: 3"=1'-0"

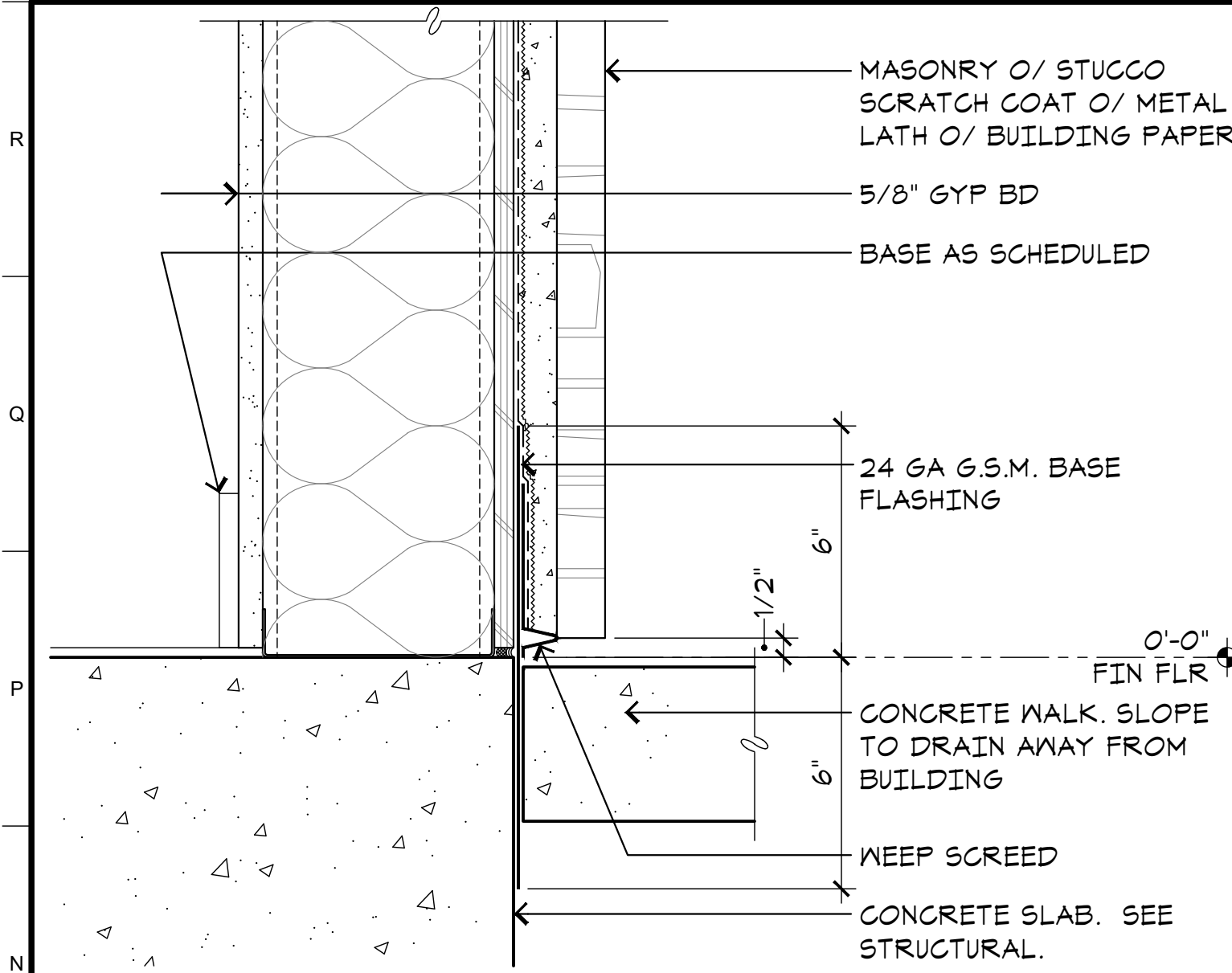


Project:
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 06.02.2020
PROJECT NO: 1900293 / 190003
FILE NAME: 19003_A7-2_Extr_Detail

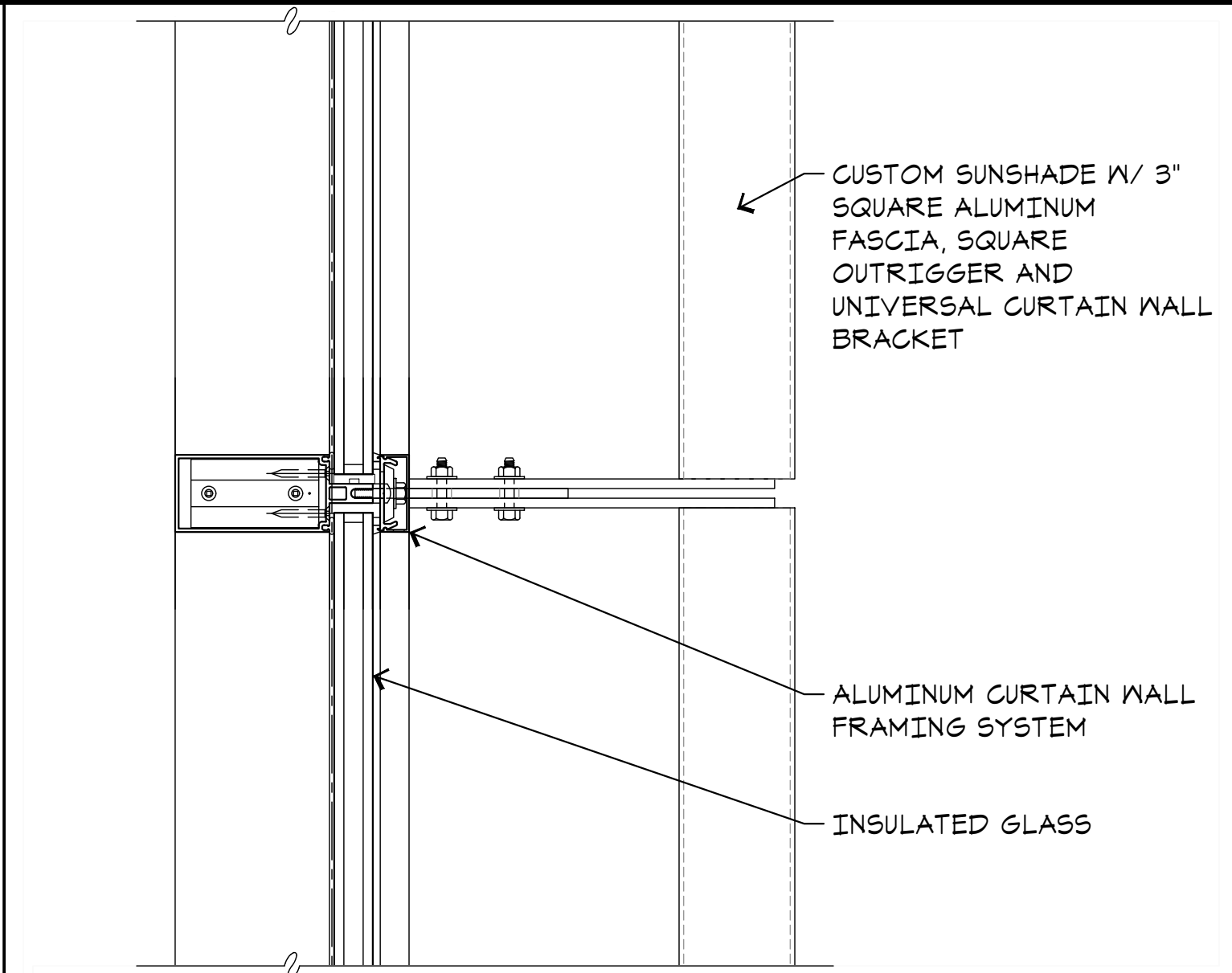
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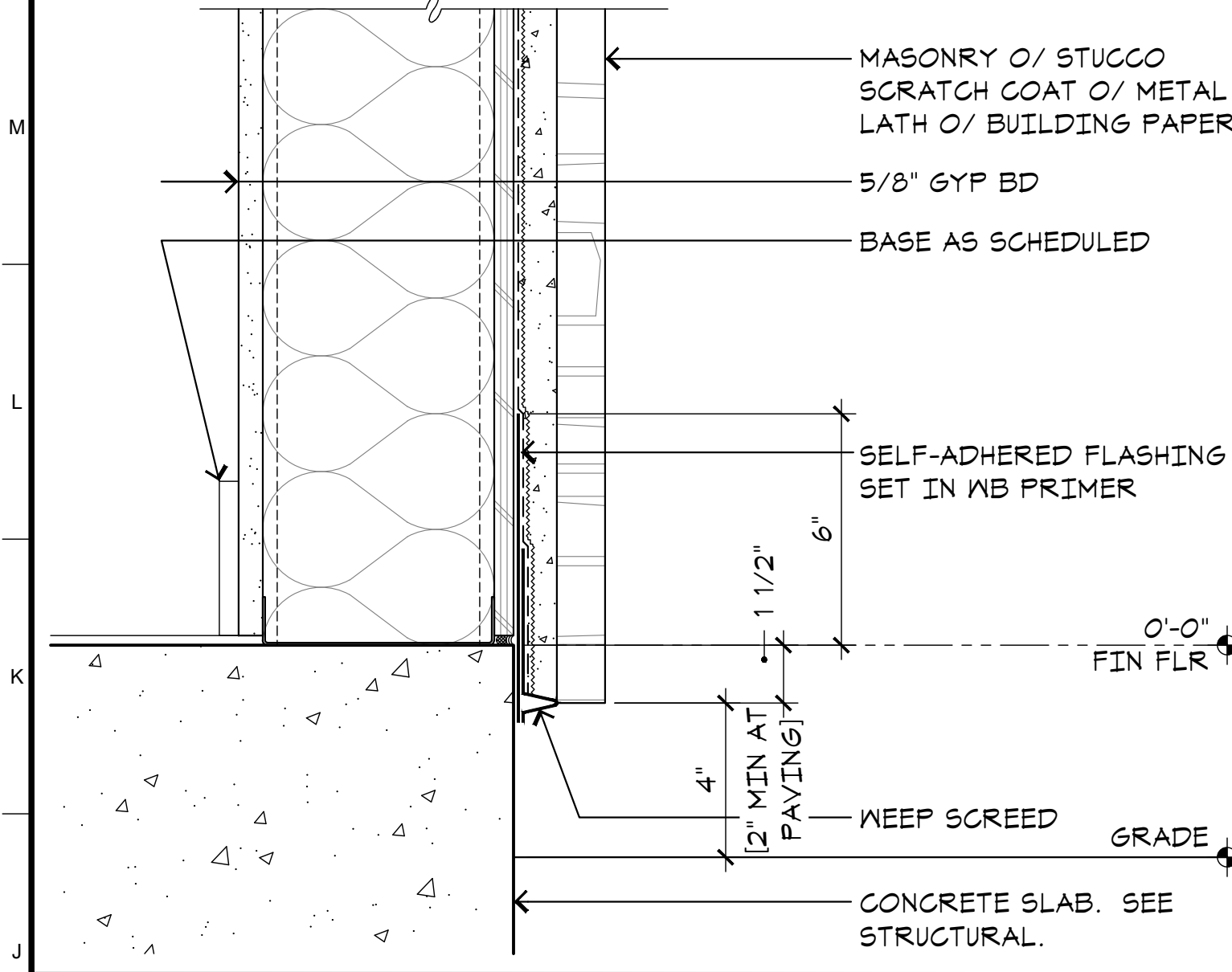
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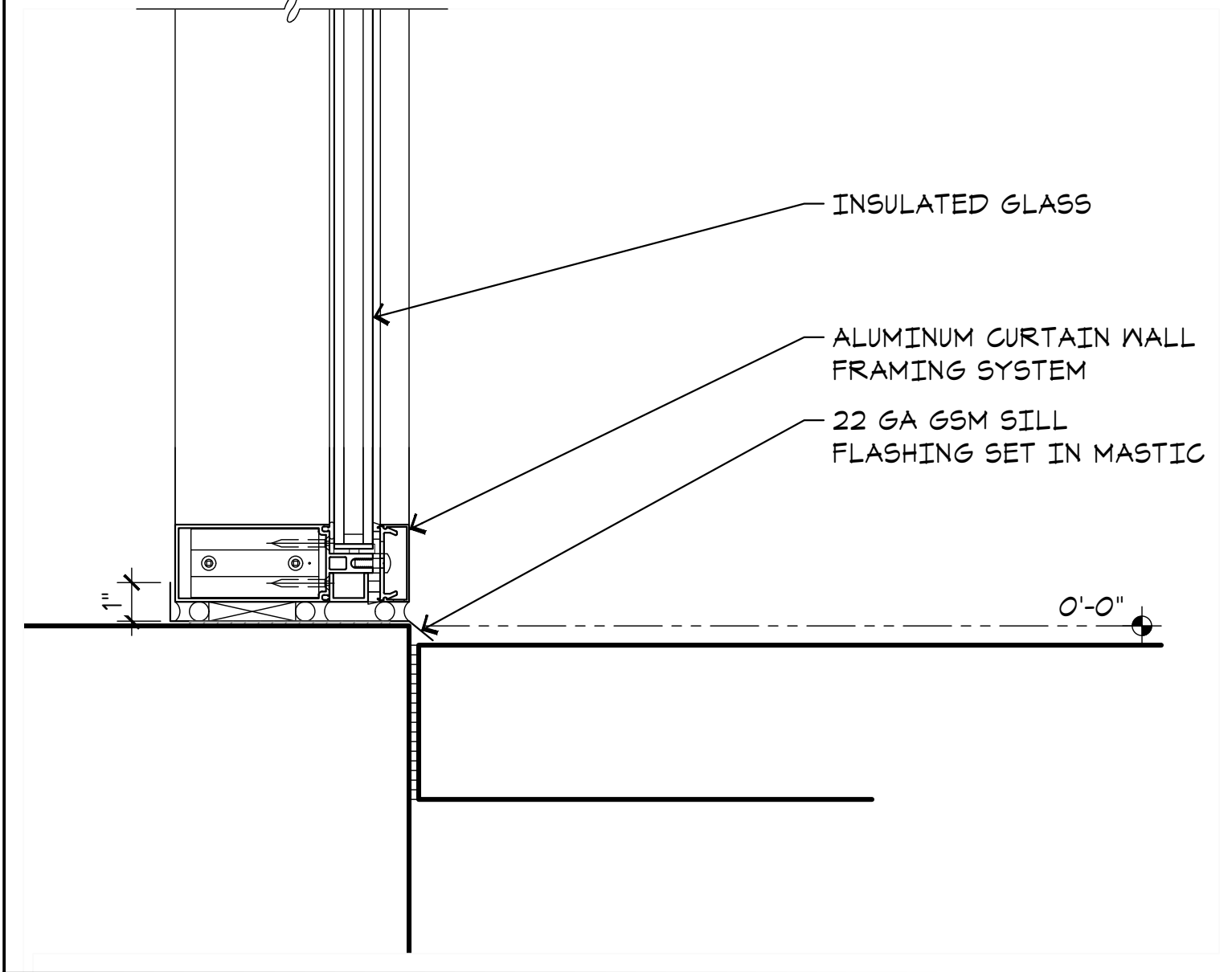
N1 **DETAIL AT FOOTING**
A7.3 SCALE: 3"=1'-0"



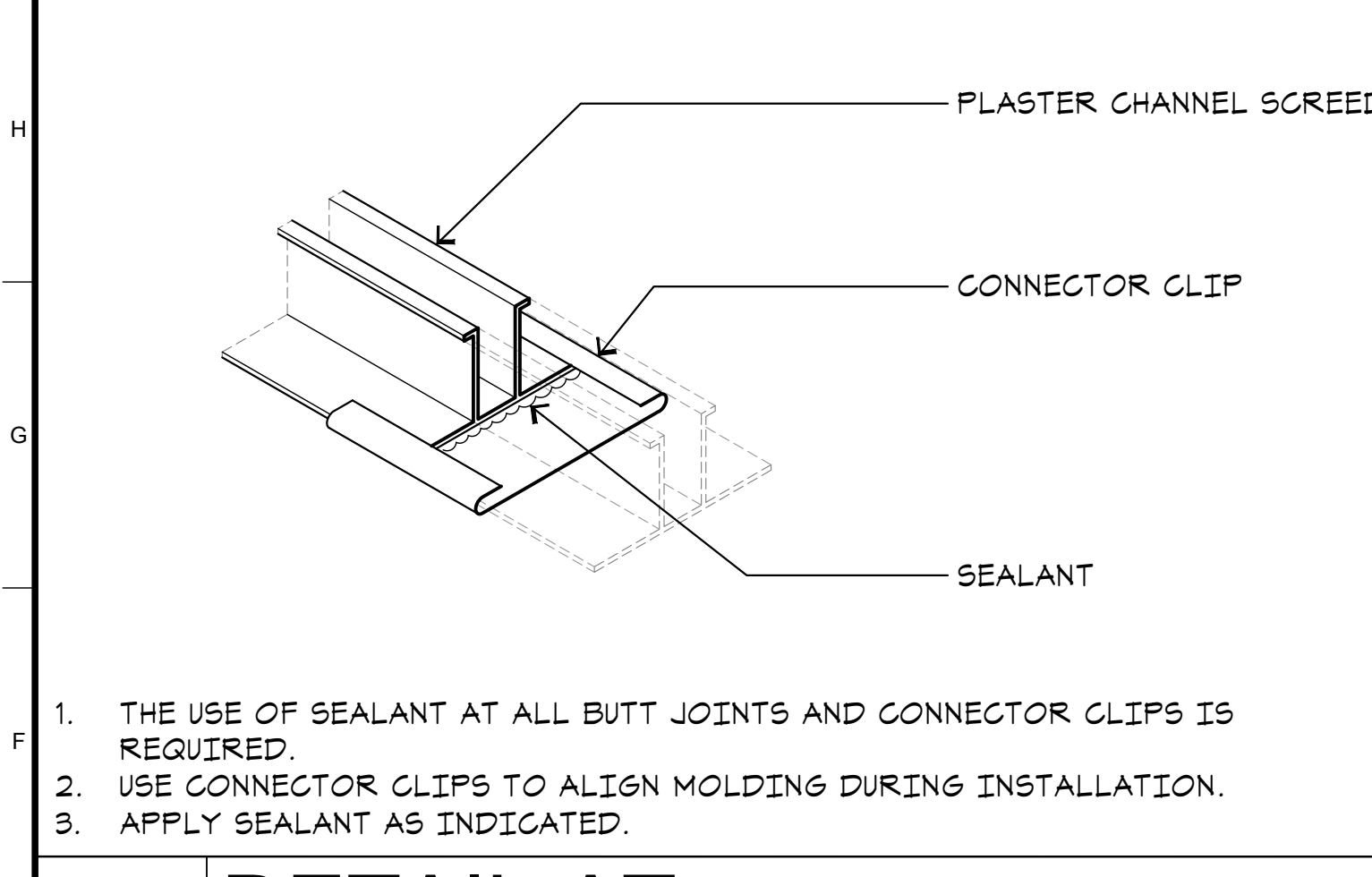
N5 **PLAN DETAIL**
A7.3 SCALE: 3"=1'-0"



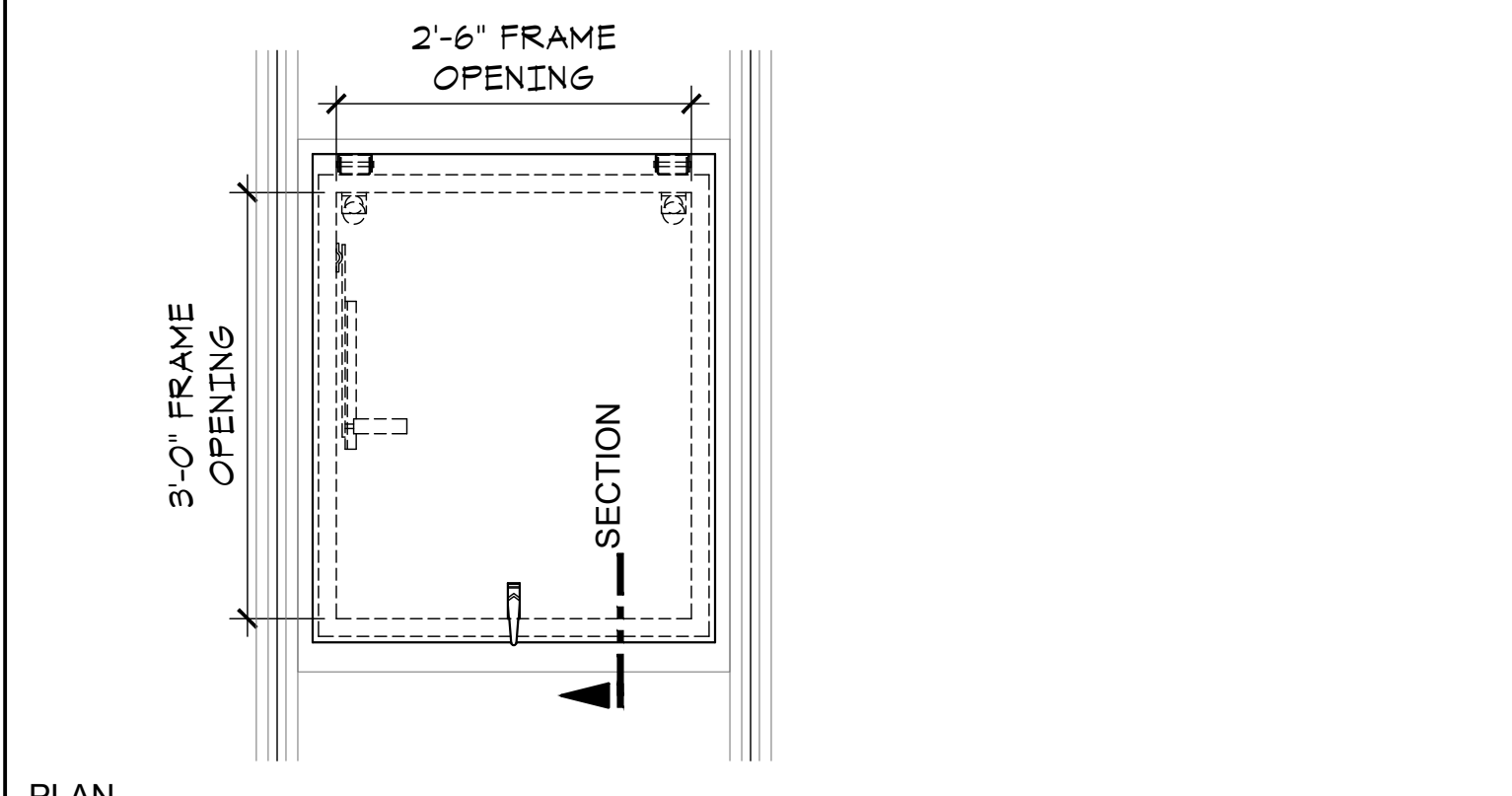
J1 **DETAIL AT FOOTING**
A7.3 SCALE: 3"=1'-0"



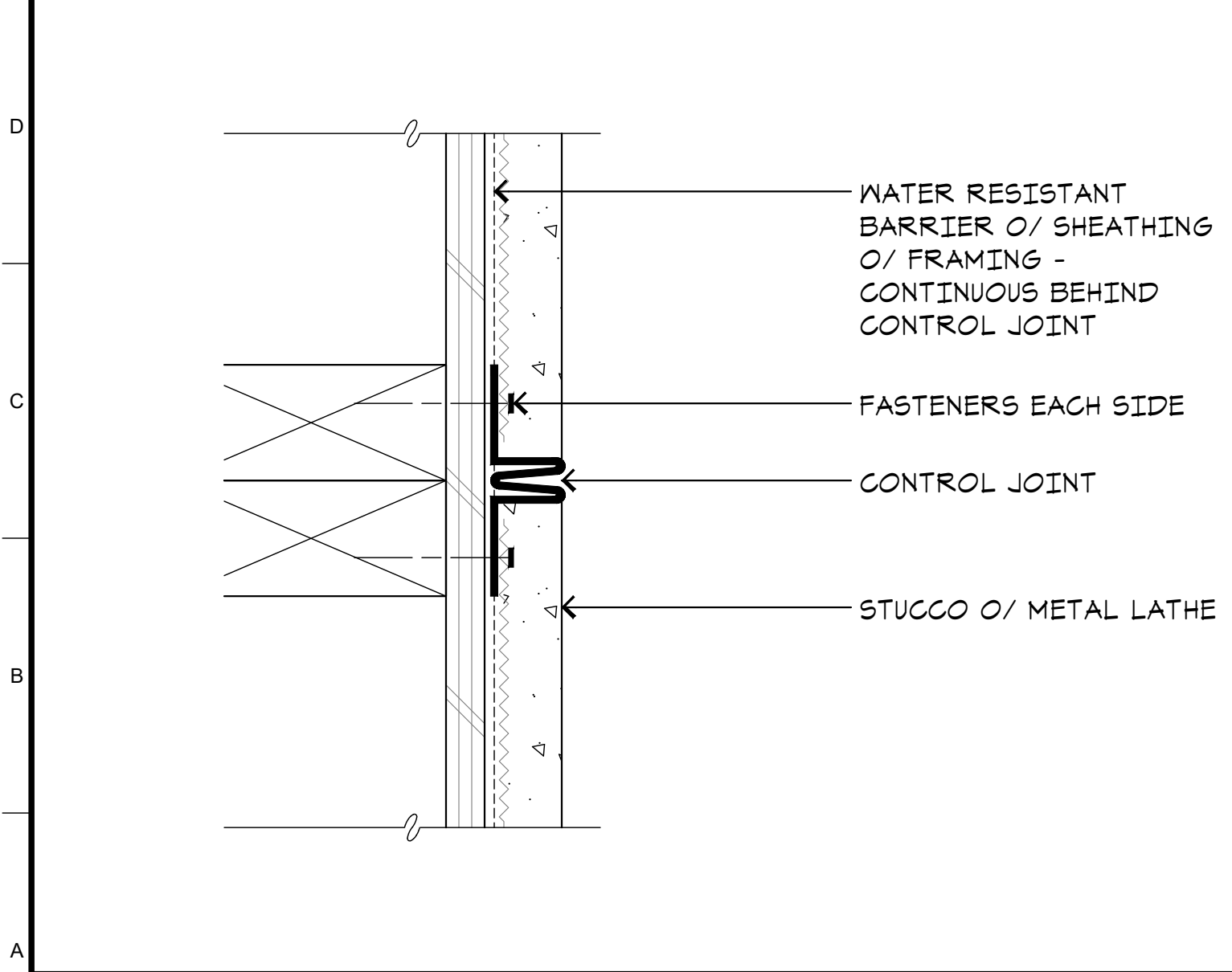
J5 **VERTICAL DETAIL**
A7.3 SCALE: 3"=1'-0"



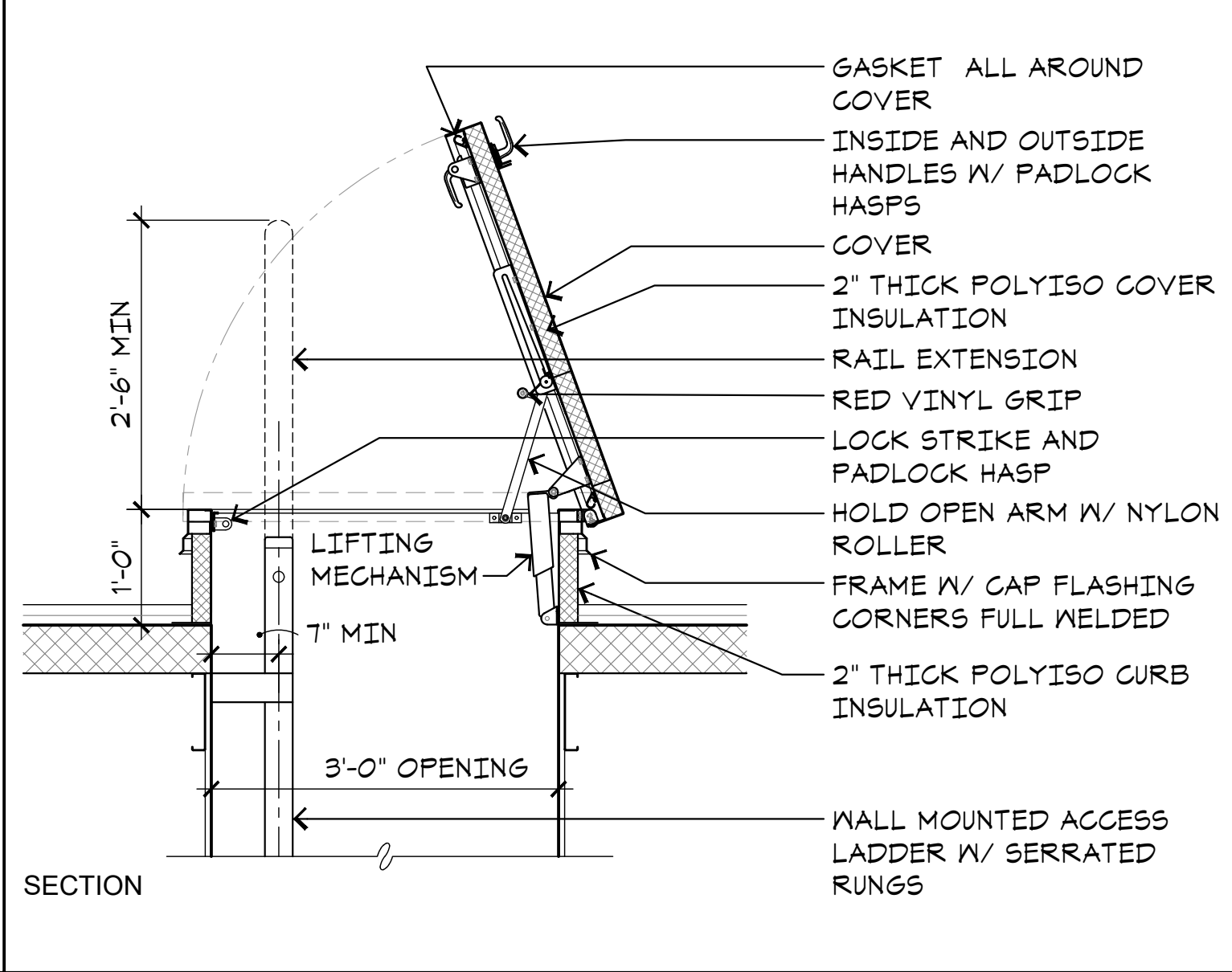
E1 **DETAIL AT CHANNEL SCREED CONNECTOR CLIP**
A7.3 SCALE: NONE



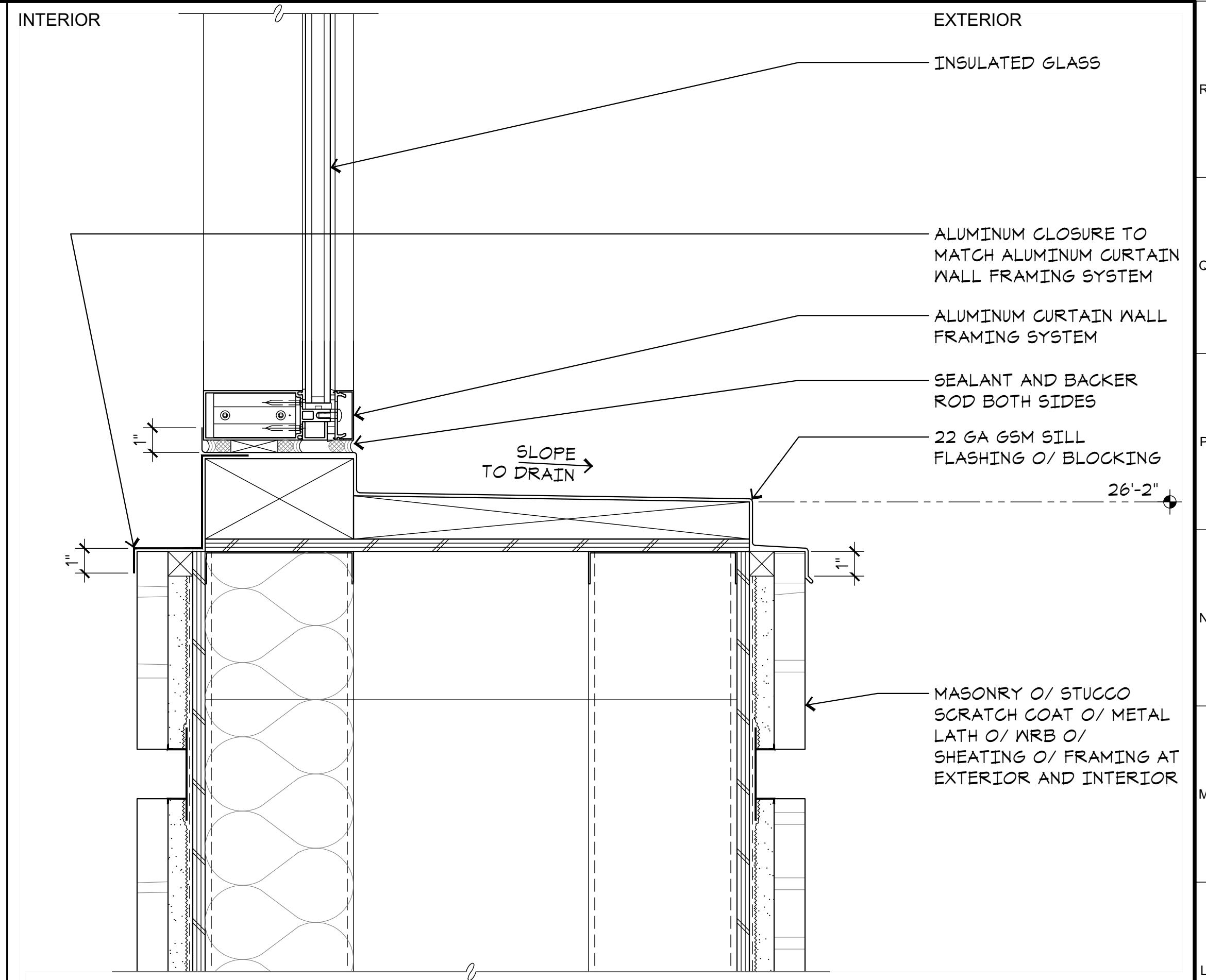
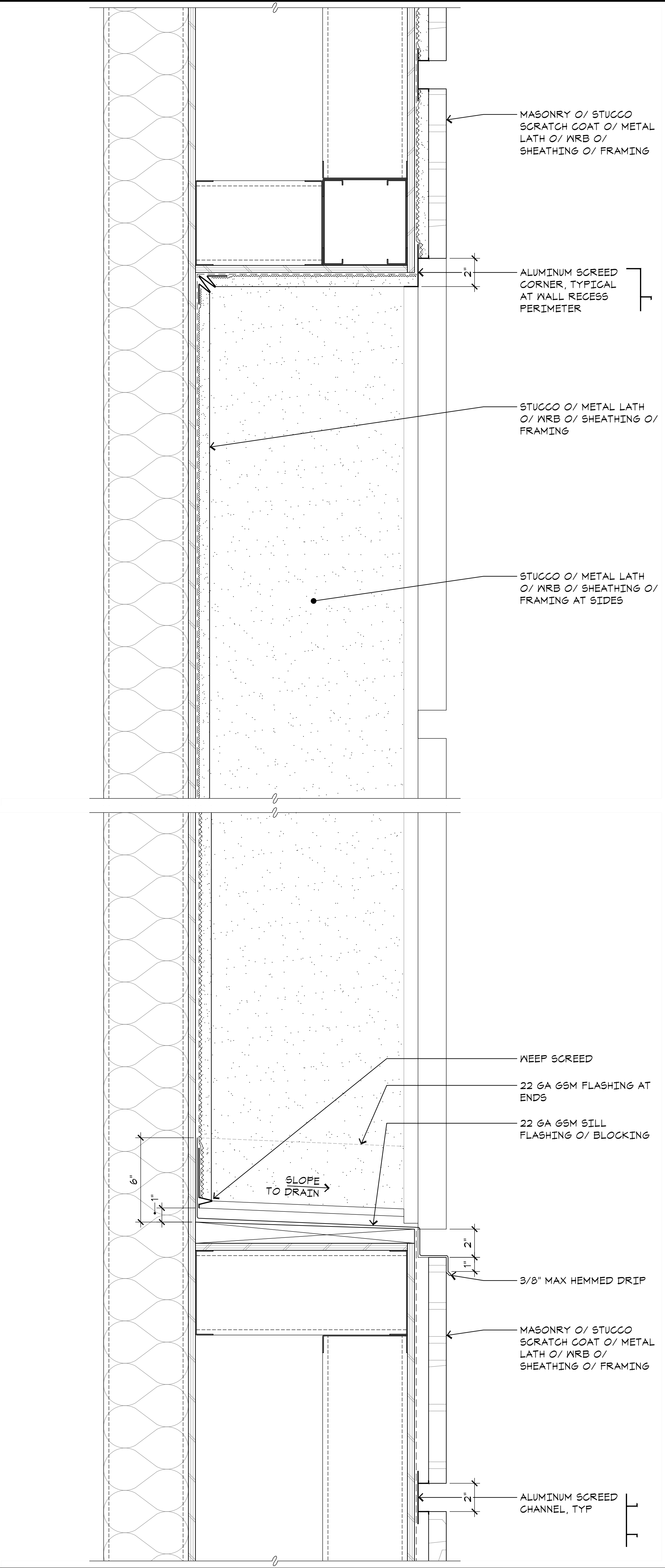
A5 **ROOF HATCH**
A7.3 SCALE: 3/4"=1'-0"



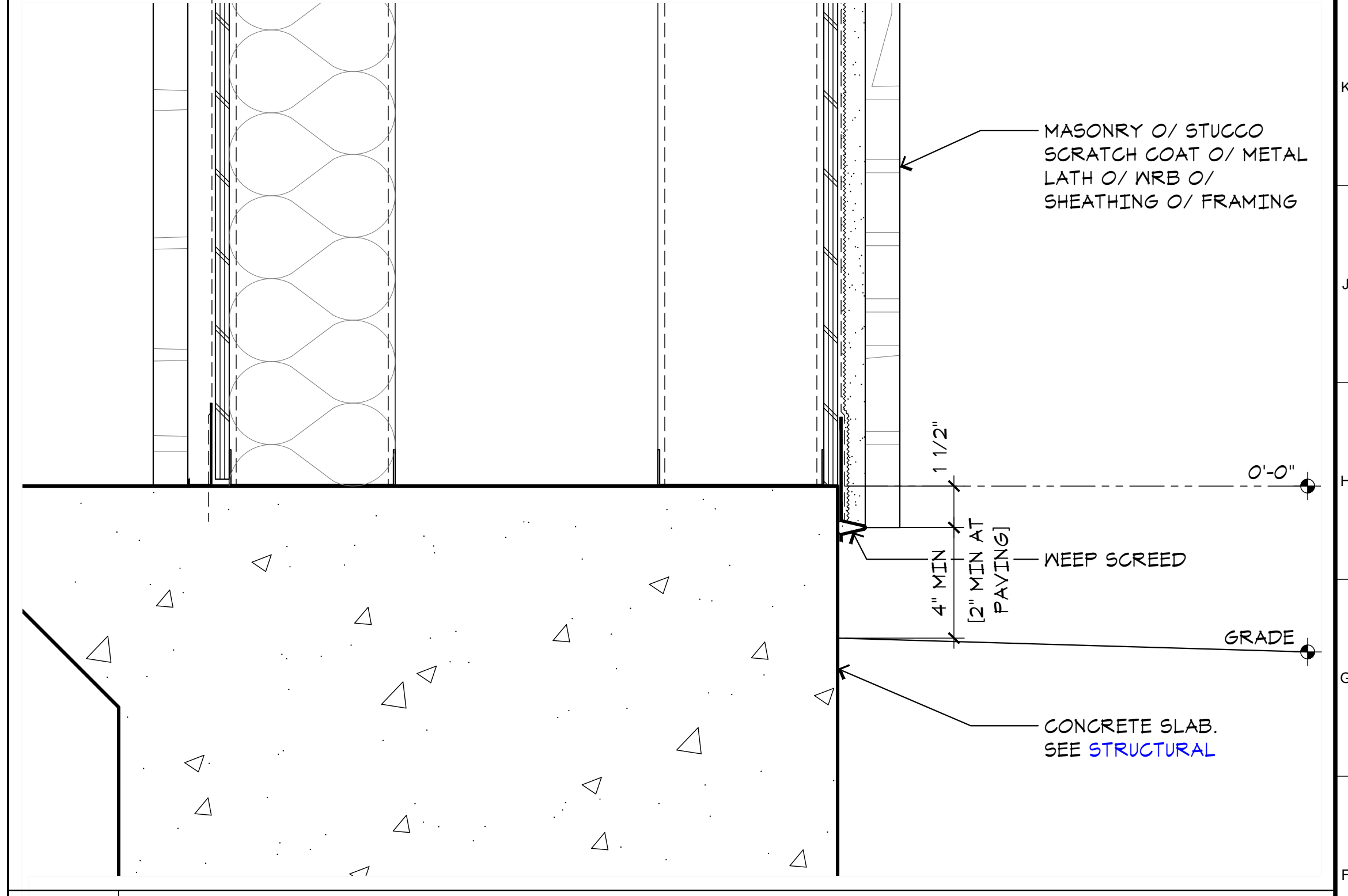
A1 **STUCCO CONTROL JOINT**
A7.3 SCALE: 6"=1'-0"



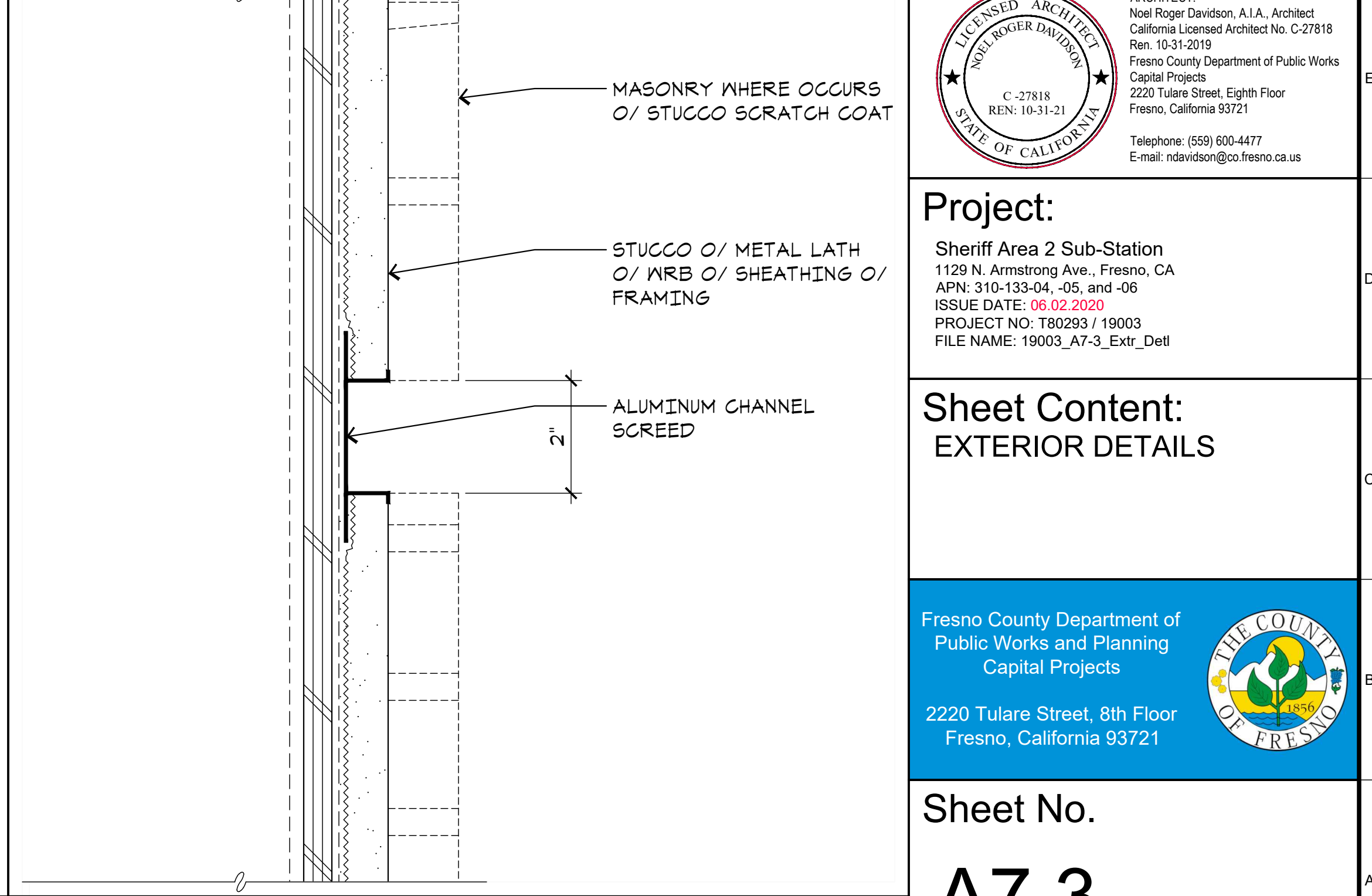
N7 **VERTICAL DETAIL**
A7.3 SCALE: 3"=1'-0"



L15 **VERTICAL DETAIL**
A7.3 SCALE: 3"=1'-0"



F15 **VERTICAL DETAIL**
A7.3 SCALE: 3"=1'-0"



A15 **DETAIL AT REVEAL**
A7.3 SCALE: 6"=1'-0"

1. THE USE OF SEALANT AT ALL BUTT JOINTS AND CONNECTOR CLIPS IS REQUIRED.
2. USE CONNECTOR CLIPS TO ALIGN MOLDING DURING INSTALLATION.
3. APPLY SEALANT AS INDICATED.

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Project:
Sheriff Area 2 Sub-Station
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APN: 310-133-04-.05, and -.06
ISSUE DATE: 06.02.2020
PROJECT NO: 1900293 / 190003
FILE NAME: 190003_A7-3_Ext_Detail

Sheet Content:
EXTERIOR DETAILS

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Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

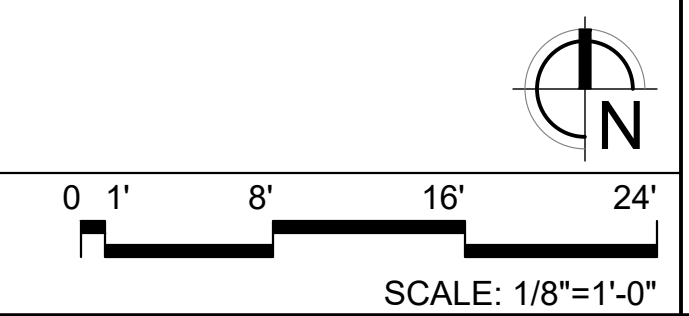
Sheet No.
A7.3

Drawn by: ---- Plot date: 06.02.2020



A1 FURNITURE PLAN

A8.1



**FOR REFERENCE ONLY.
NOT FOR CONSTRUCTION.**


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 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
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Sheet Content:
 FURNITURE PLAN (FOR
 REFERENCE ONLY)

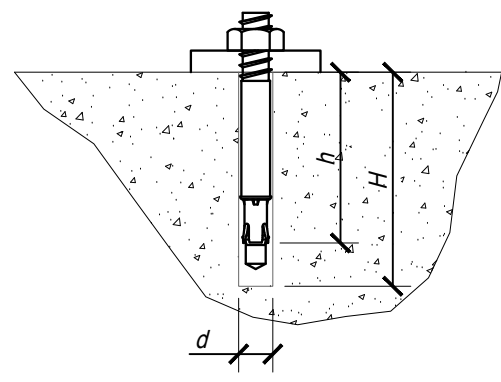
Fresno County Department of
 Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721



Sheet No.
A8.1
 Drawn by: ---- Plot date: 06.02.2020

9. POST-INSTALLED WEDGE-TYPE ANCHORS IN CONCRETE AND MASONRY

ANCHOR DIAMETER (in.)	POST-INSTALLED WEDGE-TYPE ANCHORS		
	INSTALLATION TORQUE (#.#)		
	HILTI KB-TZ ICC ESR-1917	SIMPSON STRONG-BOLT ICC ESR-1771	HILTI KB-3 ICC ESR-1385
	CONCRETE	CONCRETE	MASONRY
1/4	- NOT USED -	- NOT USED -	4
3/8	25	- NOT USED -	15
1/2	40	50	25
5/8	60	85	65
3/4	110	160	120



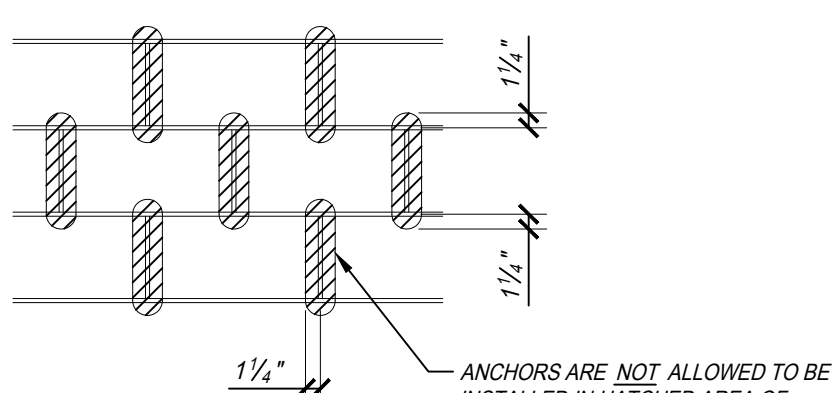
h = EFFECTIVE DEPTH OF ANCHORS AS INDICATED ON DRAWINGS

H = DEPTH OF DRILLED HOLE PER ICC REPORT

D = HOLE DIAMETER = ANCHOR DIAMETER

NOTES

- TORQUE TEST PROCEDURES ARE FOR HILTI KB-TZ WEDGE ANCHORS INSTALLED IN ACCORDANCE WITH ICC ESR-1917 AND SIMPSON STRONG-BOLT WEDGE ANCHORS INSTALLED IN ACCORDANCE WITH ICC ESR-1771 AND HILTI KB-3 WEDGE ANCHORS INSTALLED IN ACCORDANCE WITH ICC ESR-1385.
- ALL ANCHORS SHALL BE TORQUE TESTED. IOR OBSERVATION OF INSTALLATION TORQUE SHALL BE CONSIDERED ACCEPTABLE TESTING.
- THE TORQUE TESTING OF WEDGE ANCHORS SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR (ICR) OR A "SPECIAL INSPECTOR" MAY PERFORM THIS TEST. A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY AND THE ARCHITECT. IF ANY ANCHOR FAILS THE TESTING REQUIREMENTS THAT ANCHOR SHALL BE REPLACED BY ANOTHER ANCHOR PER ENGINEER'S DIRECTIVE.
- ANCHOR DIAMETER REFERS TO THE THREAD SIZE.
- TEST EQUIPMENT (INCLUDING TORQUE WRENCHES) IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.



ANCHOR INSTALLATION IN CMU WALL

8. ADDITIONAL SPECIAL INSPECTION ITEMS

TASK	SOILS PER CBC TABLE 1705A.6	
	CONTINUOUS	PERIODIC
VERIFY MATERIAL BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUB-GRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X

TASK	CONCRETE PER CBC TABLE 1705A.3	
	CONTINUOUS	PERIODIC
1. INSPECT PLACEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY LIFTS		X
2. REINFORCING BAR WELDING:		X
A) VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X
B) INSPECT SINGLE-PASS FILET WELDS, MAXIMUM 5/16"	X	
C) INSPECT ALL OTHER WELDS	X	
3. INSPECT ANCHORS CAST IN CONCRETE		X
4. INSPECT ANCHORS POST INSTALLED IN HARDENED CONCRETE MEMBERS		X
A) ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	
B) MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A		X
5. VERIFY USE OF REQUIRED DESIGN MIX		X
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	
7. INSPECT CONCRETE AND SHOROTACE PLACEMENT FOR PROPER APPLICATIONS	X	
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X
9. INSPECT PRESTRESSED CONCRETE FOR:		X
A) APPLICATION OF PRESTRESSING FORCES	X	
B) GROUTING OF BONDED PRESTRESSING TENDONS	X	
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		X
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X

6. LIGHT-GAUGE STEEL FRAMING

- DESIGN OF LIGHT-GAUGE STEEL HAS BEEN BASED ON THE 2016 CBC, CHAPTER 2211A. ALL WORK SHALL CONFORM TO THE CALIFORNIA BUILDING CODE AND THE AISI N95.
- ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS.
- DETAILS SHOWN ON STRUCTURAL DRAWINGS ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS.
- DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER SCALE ON PLANS, SECTIONS, AND DETAILS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE OF THE PROJECT IMMEDIATELY.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FLOOR OR ROOF FRAMING MEMBERS. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD.
- ALL STUD JOIST AND MISCELLANEOUS MATERIAL SHALL HAVE STIFFENED FLANGES WITH 90° RETURNS AND SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST AISI SPECIFICATION. MATERIAL SHALL CONFORM TO THE FOLLOWING:
 - MATERIAL STRENGTH:
 - 16 GAUGE AND HEAVIER - 50 KSI MIN. YIELD
 - 18 GAUGE AND LIGHTER - 33 KSI MIN. YIELD
 - ASTM A955 SS CASE 1 OR 3 (GALV.)
 - ASTM A955 SS (GALV.)
 - MATERIAL DESIGN THICKNESS:
 - 12 GA = .017"
 - 14 GA = .0173"
 - 16 GA = .0168"
 - 18 GA = .0451"
 - 20 GA = .0349"

- METAL-TO-METAL: SELF-TAPPING SHEET METAL SCREWS
 - METAL-TO-METAL SCREW SIZE: NOMINAL DIAMETER
 - #8 16"
 - #10 19"
 - #12 20"
- WOOD-TO-METAL: SELF-TAPPING SHEET METAL SCREW WITH BULEG HEAD DESIGNED FOR ATTACHMENT OF WOOD TO METAL.

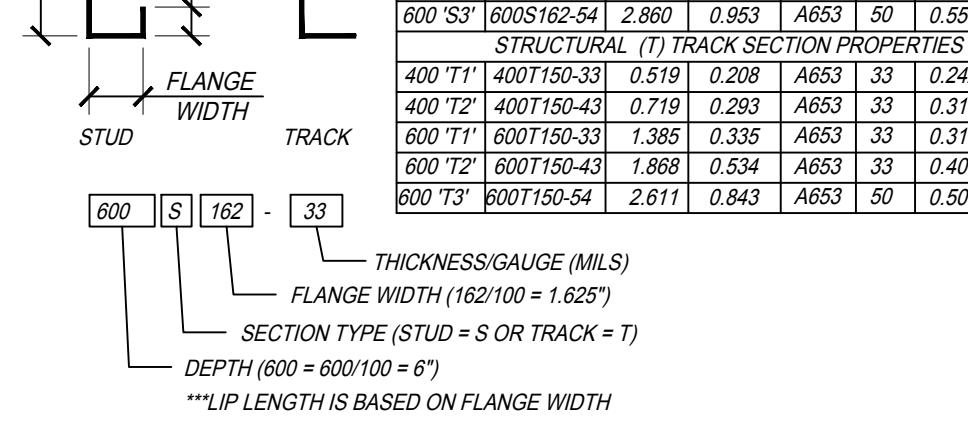
- METAL-TO-WOOD: WOOD SCREW WITH FLUSH BEARING OR HOLE TO METAL SURFACE. PRE-DRILL METAL SURFACE WITH HOLES EQUAL TO SCREW DIAMETER
 - METAL-TO-WOOD SCREW SIZE: NOMINAL DIAMETER
 - #8 16"
 - #10 19"
 - #12 21"
 - #14 24"

- WIRE TYING OF FRAMING IS NOT ALLOWED.
- ALL COMPONENTS SHALL BE CUT SQUARELY OR AS REQUIRED FOR AN ANGULAR FIT TO RECEIVING MEMBERS. BENT, DISTORTED OR OTHERWISE DAMAGED COMPONENTS SHALL NOT BE USED.
- ALL JOIST MEMBERS SHALL BE UN-PUNCHED UNLESS OTHERWISE INDICATED. BEARING AND NON-BEARING PARTITION WALL STUDS MAY BE PUNCHED.
- LATERAL STRAP BRACING FOR WALL STUDS SHALL BE APPLIED TO BOTH SIDES OF WALL AT 8'-0" VERTICAL SPACING FOR WALLS EXCEEDING 8'-0" IN HEIGHT AND WHERE INDICATED OTHERWISE ON THE DRAWINGS. INSTALL STRAP BRACING @ 24"oc VERT. SPACING WHERE WALL FINISH DOES NOT OCCUR. (SEE DETAIL: T1M715)

- AXIALLY LOADED STUDS SHALL HAVE FULL BEARING AGAINST INSIDE TRACK WEB PRIOR TO STUD AND TRACK ATTACHMENT. SPLICES SHALL NOT BE PERMITTED.
- STUD WALLS SHALL BE BOLTED TO THE SLAB WITH ANCHOR BOLTS AS DETAILED. SHOT PINS AND EXPANSION ANCHORS ARE NOT ALLOWED AT CURBS. SHOT PINS ARE NOT ALLOWED AT SLAB EDGES. INTERIOR WALLS MAY BE ATTACHED WITH 0.77" DIAMETER x 1/2" POWDER DRIVEN FASTENERS AT 24"oc UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY BRACING OF WALLS DURING ERECTION.
- BOTTOM SILL TRACK AT CURVED WALLS (IF THEY OCCUR ON THIS PROJECT) SHALL BE COLD FORMED TO REQUIRED RADIUS. CUTTING OFF FLANGE AND WEB SECTIONS IS NOT ALLOWED FOR PURPOSES OF BENDING SECTION TO THE REQUIRED RADIUS.

- MANUFACTURER SHALL BE A MEMBER OF THE SSMA - STEEL STUD MANUFACTURERS ASSOCIATION. SECTIONS OF METAL COMPONENTS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

TYPE	MARK	MIN. EFFECTIVE PROPERTIES (S) STUD SECTION PROPERTIES	ASTM (F)	AREA (in ²)	LIP (in)		
STRUCTURAL (S) STUD SECTION PROPERTIES							
400 S1	A005162-33	0.692	0.332	A653	33	0.278	0.500
400 S2	A005162-43	0.862	0.442	A653	33	0.357	0.500
600 S1	B005162-33	1.793	0.577	A653	33	0.344	0.500
600 S2	B005162-43	2.378	0.787	A653	33	0.447	0.500
600 S3	B005162-54	2.861	0.851	A653	30	0.580	0.500
STRUCTURAL (T) TRACK SECTION PROPERTIES							
400 T1	A007150-33	0.519	0.268	A653	33	0.242	N/A
400 T2	A007150-43	0.719	0.290	A653	33	0.316	N/A
600 T1	B007150-33	1.881	0.330	A653	33	0.371	N/A
600 T2	B007150-43	1.868	0.534	A653	33	0.405	N/A
600 T3	B007150-54	2.871	0.843	A653	30	0.509	N/A



DEPTH: 800 ± 100 (± 1")
LIP LENGTH IS BASED ON FLANGE WIDTH

7. SPECIAL INSPECTIONS

- A STATEMENT FOR SPECIAL INSPECTION PREPARED BY THE SPECIAL INSPECTION AGENCY OF RECORD IN ACCORDANCE WITH 2016 CBC 1703A.1 MUST BE SUBMITTED PRIOR TO ISSUANCE OF PERMITS. THE SPECIAL INSPECTION AGENCY MUST BE CERTIFIED BY THE ICC (INTERNATIONAL CODE COUNCIL) AND APPROVED BY THE BUILDING OFFICIAL. THE PROPOSAL MUST INDICATE THAT SPECIAL INSPECTION HAS BEEN OBTAINED BY THE OWNER, THE OWNER'S AGENT, BUT NOT THE CONTRACTOR OR THE PERSON RESPONSIBLE FOR THE WORK. THE PROPOSAL MUST IDENTIFY THE SCOPE OF REQUIRED INSPECTIONS, LIST THE INDIVIDUALS PERFORMING THE INSPECTIONS INCLUDE CURRENT INDIVIDUAL CERTIFICATIONS AS WELL AS THE LABORATORY'S CERTIFICATION, AND MUST BE ATTACHED TO EACH SET OF PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING ALL SPECIFIED INSPECTIONS AND TESTING WITH THE INSPECTOR/TESTING AGENCY. SEE SPECIFICATIONS FOR REQUIRED INSPECTIONS AND TESTING REQUIRED.
- THE FOLLOWING ITEMS ARE SUBJECT TO "SPECIAL INSPECTION" IN CONFORMANCE WITH CBC SEC. 1703.1 (EXCEPTIONS MAY BE TAKEN WHERE APPLICABLE):
 - ALL STRUCTURAL WELDING.
 - CONCRETE WHEN DESIGN $f_c > 2500$ psi (SEE CONCRETE MIN DESIGN SCHEDULE).
 - SPECIAL GRADING, EXCAVATION, AND FILLING.
 - INSTALLATION OF I.C.C. APPROVED WEDGE TYPE BOLTS INTO CONCRETE.

- SHOP DRAWING SUBMITTALS:
 - SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. SEE SPECIFICATIONS FOR SUBMITTALS REQUIRED.
 - SHOP DRAWINGS SHALL NOT BE PREPARED UNTIL ALL CONDITIONS HAVE BEEN VERIFIED.
 - DETAILER SHALL SUBMIT TITLES FOR ISSUES REQUIRING RESOLUTION FOR COMPLETION OF SHOP DRAWINGS. MINOR ISSUES MAY BE CLOSED IN THE SHOP DRAWINGS.
 - SHOP DRAWING PREPARATION SHALL INCLUDE A CONTINGENCY TO ALLOW FOR MINOR REVISIONS RESULTING FROM ARCHITECTS' AND ENGINEERS' REVIEW.
- DETAILS SHOWN IN THESE DRAWINGS FOR THE SUPPORT OF ROOF AND/OR FLOOR MOUNTED EQUIPMENT AND OPENINGS IN ROOF AND/OR FLOOR DECKS ARE TYPICAL CONDITIONS. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER CONTRACT DOCUMENTS FOR EQUIPMENT AND OPENING LOCATIONS, SIZES AND MOUNTING REQUIREMENTS.

4. REINFORCED HOLLOW-UNIT CONCRETE BLOCK MASONRY

- ALL MASONRY CONSTRUCTION SHALL BE OF GROUTED, REINFORCED, CONCRETE MASONRY UNITS WITH TH AS LISTED ABOVE. REFER TO THE PROJECT SPECIFICATIONS FOR OTHER RELATED INFORMATION.
- ALL MASONRY WORK SHALL CONFORM TO THE 2016 CBC AND THE ACI 530 1-13 AND 530 1-13, ASCE 5-13 AND ASCE 6-13 RESPECTIVELY.
- SPECIAL INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT INSPECTION AGENCY CERTIFIED FOR MASONRY INSPECTION, IN CONFORMANCE WITH ACI 530 LEVEL 6 SPECIAL INSPECTION TABLE 1.19.2.
- MATERIALS:
 - PORTLAND CEMENT ASTM C150 TYPE 1 OR 11, LOW ALKALI.
 - AGGREGATE: MORTAR SAND - ASTM C144; GROUT SAND - ASTM C404.
 - ADDMIXTURE: ASTM C201, TYPE S.
 - ADDMIXTURES - ONLY AS APPROVED BY THE ARCHITECT.
 - CONCRETE BLOCK MASONRY UNITS: ASTM C90, MIN. COMPRESSIVE STRENGTH AS INDICATED IN SCHEDULES BELOW BY UNIT STRENGTH METHOD WITH MAXIMUM .08% LINEAR SHRINKAGE WHEN TESTED IN ACCORDANCE WITH C.I.A. STANDARDS.
 - REINFORCING MATERIALS: ASTM A706, GRADE 60 DEFORMED BARS. WELDED REBAR ASTM A706 (WHERE REQUIRED PER PLANS AND DETAILS). SEE "MASONRY LAP SPLICES" FOR TYP REBAR LAP REQUIREMENTS.
- MORTAR:
 - ASTM C270 STRENGTH TYPE S, 1200 psi @ 7 DAYS AND 1800 psi @ 28 DAYS FOR LABORATORY PREPARED SAMPLES, 1500 psi @ 28 DAYS FOR FIELD TEST SPECIMENS. FIELD SAMPLES SHALL BE USED TO VERIFY CONSISTENCY OF MATERIALS AND PROCEDURES USED BY EXPERIENCED PERSONNEL.

- GROUT:
 - STRENGTH: AS REQUIRED PER SCHEDULE LISTED BELOW.
 - COMPOSITION: GROUT SHALL BE PROPORTIONED FOR "COARSE GROUT" PER ASTM C472 AND CBC 2103.3.
- MASONRY MATERIALS SHALL BE TESTED BY THE "UNIT STRENGTH METHOD" (SEE SPECIFICATIONS). "PRISM TEST METHOD" IS NOT AN ACCEPTABLE SUBSTITUTE WITHOUT WRITTEN DIRECTIVE FROM THE ARCHITECT WITH BUILDING OFFICIAL APPROVAL.
- GROUTING PROCEDURES SHALL BE AS REQUIRED BY ACI 530 1-13, AND AS FOLLOWS:
 - THE TOTAL GROUT POUR SHALL NOT EXCEED THE HEIGHT UNITS OF 4:15:1 TABLE 7, IN LIFTS NOT EXCEEDING 5'-4" PROVIDE AT VERTICAL REINFORCING BARS 32% MAX.
 - CLEANOUTS: PROVIDE CLEANOUT OPENINGS FOR ALL WALLS AT THE BOTTOM OF EVERY REINFORCED CELL FOR EACH FOUR EXCEEDING 5'-4" NOT EXCEEDING 32% OF THE COURSE AT THE BOTTOM OF THE POUR SHALL BE CONSTRUCTED ENTIRELY OF INVERTED OPENEND BOND BEAM UNITS. THE REINFORCING STEEL POSITIONED AND THE COURSE OF MASONRY UNITS AND BE OF SUFFICIENT SIZE AND LOCATION TO ALLOW THOROUGH REMOVAL OF MORTAR DROPPINGS AND/OR DEBRIS AFTER THE LAYING OF MASONRY UNITS IS COMPLETED. THE CELLS SHALL BE CONSTRUCTED ENTIRELY OF INVERTED OPENEND UNITS AND BE OF SUFFICIENT SIZE AND LOCATION TO ALLOW THOROUGH REMOVAL OF MORTAR DROPPINGS AND/OR DEBRIS AFTER THE LAYING OF MASONRY UNITS IS COMPLETED. THE CELLS SHALL BE CONSTRUCTED ENTIRELY OF INVERTED OPENEND UNITS ON COVERING THE OPENINGS WITH FORMS. FACE SHELL SPLICES SHALL BE ADEQUATELY BRACED TO RESIST THE HYDROSTATIC PRESSURE EXERTED BY THE GROUT.

- ALL GROUT SHALL BE VIBRATED IN PLACE WITH A MECHANICAL VIBRATOR DESIGNED FOR MASONRY CONSTRUCTION AND USED BY EXPERIENCED PERSONNEL.
- CONCRETE BLOCK MASONRY UNITS SHALL BE DRY AND CLEAN BEFORE GROUTING OPERATION.
- ALL MASONRY SHALL BE "TRAINING BOND" CONSTRUCTION UNLESS OTHERWISE SPECIFIED. WHERE MASONRY "STACKED BOND" CONSTRUCTION IS SPECIFIED, USE OPENING UNITS SO THAT ALL HEAD JOINTS ARE MADE SOLID, AND USE BOND BEAM UNITS TO FACILITATE THE FLOW OF GROUT. ALL UNITS SHALL BE GROUTED SOLID.
- CONTROL JOINTS (C.J.) SHALL BE PROVIDED FOR ALL WALLS IN EXCESS OF 34 FEET LONG. JOINTS SHALL BE SPACED AT 2400 MAX UNLESS OTHERWISE SPECIFIED. JOINT LOCATIONS SHALL BE APPROVED BY THE ENGINEER AND ARCHITECT PRIOR TO POURING WALL FOOTINGS. JOINTS SHALL BE AS DETAILED ON THE DRAWINGS.
- CONDUITS AND PIPES:
 - CONDUITS SHALL BE ALLOWED IN CELLS FOR VERTICAL RUNS ONLY, IN ACCORDANCE WITH THE FOLLOWING PARAMETERS: NO HORIZONTAL RUNS ARE ALLOWED EXCEPT THAT VERTICAL OFFSETS BETWEEN ADJACENT 3'-0" VERTICAL RUNS SHALL BE LIMITED TO 1/4" IN LENGTH TO AVOID INTERFERENCE AND CONGESTION WITH REINFORCING STEEL AND OTHER EMBEDDED ITEMS.
 - WATER, GAS AND OTHER PIPES MAY PENETRATE THROUGH A WALL IN A SLEEVE, BUT SHALL NOT BE EMBEDDED IN WALLS.

- REINFORCED CELLS: LIMIT CONDUIT TO ONE 3/4" DIAMETER CONDUIT PER CELL, PROVIDED THE FOLLOWING CONDITIONS ARE MAINTAINED:
 - REINFORCING STEEL SHALL BE PROPERLY PLACED AND SHALL NOT BE RELOCATED TO ACCOMMODATE CONDUITS.
 - GROUT COVER BETWEEN CONDUIT AND REINFORCING STEEL SHALL BE 2.5 x BAR DIAMETER, 1/2" MIN. (1/2" AT #5 BARS, 1/2" AT #6 BARS).
 - MAINTAIN A MINIMUM CLEAR AREA WITHIN THE CELL FOR GROUT CLEARANCE AND CONSOLIDATION BY VIBRATION.
- UNREINFORCED CELLS: LIMIT CONDUIT TO TWO 3/4" DIAMETER CONDUIT PER CELL, OR ONE 1 1/2" DIAMETER CONDUIT PER CELL PROVIDED THE FOLLOWING CONDITIONS ARE MAINTAINED:
 - CONDUIT SHALL NOT BE PLACED CLOSER THAN 3 x DIAMETER, CENTER TO CENTER, TO ADJACENT CONDUITS.
 - MAINTAIN A MINIMUM CLEAR AREA WITHIN THE CELL FOR GROUT CLEARANCE AND CONSOLIDATION BY VIBRATION.
- NO CONDUITS ARE ALLOWED IN WALLS LESS THAN 8" NOMINAL THICKNESS.

- CONDUIT SHALL NOT BE PLACED CLOSER THAN 3 x DIAMETER, CENTER TO CENTER, TO ADJACENT CONDUITS.
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FIN SPECIFIED	MIN. STRENGTH OF MASONRY UNIT	GROUT STRENGTH @ 7 DAYS	MIN. GROUT STRENGTH @ 28 DAYS
2000 psi		1200 psi	2000 psi

5. STRUCTURAL STEEL AND MISCELLANEOUS METALS

- GENERAL:
 - FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH ACCEPTED PRACTICES OF THE A.I.S.C.
 - STEEL TO BE TESTED WILL BE INDICATED IN THE SPECIFICATIONS. TESTING WILL BE WAIVED WITH MILL CERT. IDENTIFICATION.
 - WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE A.I.S.C. "STRUCTURAL WELDING CODE" (AWS D1.1-10).
 - WELDING PROCEDURE SPECIFICATIONS "WPS" SHALL BE SUBMITTED TO THE SPECIAL INSPECTOR FOR ALL WELD TYPES USED ON THE PROJECT. SPECIAL INSPECTOR SHALL PROVIDE A LETTER TO THE SEOR INDICATING THEIR OFFICE HAS REVIEWED AND APPROVED ALL WELDING PROCEDURES.
 - WELDERS CERTIFICATES SHALL BE SUBMITTED TO THE PROJECT INSPECTOR PRIOR TO STARTING WORK. WELDERS SHALL BE QUALIFIED BY AWS CERTIFICATION FOR THE TYPE OF WORK TO BE DONE.
 - ALL WELDING SHALL BE SUBJECT TO SPECIAL INSPECTION. INSPECTION SHALL BE IN CONFORMANCE WITH THE CBC. ONLY STEEL FABRICATORS ACCREDITED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) OR THE INTERNATIONAL ACCREDITED SERVICE (IAS - A SUBSIDIARY OF THE INTERNATIONAL CODE COUNCIL) WILL BE CONSIDERED AN APPROVED STEEL FABRICATOR, AND THEREFORE EXEMPT FROM SPECIAL INSPECTION FOR SHOP WELDING. ALL FIELD WELDING SHALL BE INSPECTED.
 - FABRICATION SHALL NOT TAKE PLACE UNTIL SHOP DRAWINGS HAVE BEEN RECEIVED, RETURNED, AND ISSUES IN QUESTION HAVE BEEN RESOLVED.
 - COLUMN BASE PLATES MAY HAVE 3/8" MAX. OVERSIZE BOLT HOLES WITH STANDARD NUT AND 3/8" MAX. OVERSIZE BOLT HOLES WITH HEAVY-HEX NUTS.
- MATERIALS:
 - STRUCTURAL STEEL:
 - CHANNELS, ANGLES & BASE PLATES - ASTM A36, Gr. A
 - STRUCTURAL PIPE - ASTM A53, GRADE B
 - STRUCTURAL HSB RECTANGULAR TUBING - ASTM A500, GRADE C (F_y = 50 KSI)
 - MISC. METALS - ASTM A36, Gr. A
 - STANDARD BOLTS - ASTM A307, Gr. A - TYPICAL UNLESS NOTED OTHERWISE.
 - STANDARD AND HEAVY-HEX NUTS - ASTM A563 - TYPICAL UNLESS NOTED OTHERWISE.
 - STANDARD ANCHOR BOLTS - ASTM F1554 (Gr. 36 OR Gr. 55 WHERE NOTED)
 - WASHERS - AS REQUIRED BY THE AISC; HSS; SECTION 6 - USE OF WASHERS
 - WELDING ROD - HEAVILY COATED, CONFORMING WITH A.I.S. SPECIFICATIONS FOR ARC WELDING; ELECTRODES OF CLASSIFICATION NUMBERS SUITABLE FOR THE WORK TO BE DONE.
- SHOP DRAWING SUBMITTALS:
 - SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. SEE SPECIFICATIONS FOR SUBMITTALS REQUIRED.
 - SHOP DRAWINGS SHALL NOT BE PREPARED UNTIL ALL CONDITIONS HAVE BEEN VERIFIED.
 - DETAILER SHALL SUBMIT TITLES FOR ISSUES REQUIRING RESOLUTION FOR COMPLETION OF SHOP DRAWINGS. MINOR ISSUES MAY BE CLOSED IN THE SHOP DRAWINGS.
 - SHOP DRAWING PREPARATION SHALL INCLUDE A CONTINGENCY TO ALLOW FOR MINOR REVISIONS RESULTING FROM ARCHITECTS' AND ENGINEERS' REVIEW.
- DETAILS SHOWN IN THESE DRAWINGS FOR THE SUPPORT OF ROOF AND/OR FLOOR MOUNTED EQUIPMENT AND OPENINGS IN ROOF AND/OR FLOOR DECKS ARE TYPICAL CONDITIONS. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER CONTRACT DOCUMENTS FOR EQUIPMENT AND OPENING LOCATIONS, SIZES AND MOUNTING REQUIREMENTS.

3. CONCRETE

- GENERAL: ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI MANUAL OF CONCRETE PRACTICE AND THE C.B.C.
- REINFORCING MATERIALS:
 - DEFORMED ASTM A615 OR A706 - GRADE 60
 - WELDED WIRE FABRIC: ASTM A406
 - WELDED REBAR (IF USED): ASTM A706
- CONCRETE MIX DESIGNS: CONCRETE MIX SHALL BE LIMITED BY THE FOLLOWING. SEE SPECIFICATIONS FOR OTHER CONCRETE MIX INFORMATION.

LOCATION	COMP. STRENGTH (f _c)	MINIMUM SACKS/YD ³	MAX. WATER/CEMENT RATIO	AGGREGATE SIZE
TYPICAL INTERIOR SLAB ON GRADE	4,000 psi (DESIGN=2,500 psi)	6 1/2" (18% FLYASH SUBSTITUTION REQUIRED)	.45	ASTM C33 SIZE 57
FOOTINGS	3,000 psi (SPECIAL INSPECTION)	5 1/2"	.60	ASTM C33 SIZE 57
EXTERIOR WALKWAYS & SITE WORK	SEE CIVIL			

- ADDMIXTURES: ONLY AS APPROVED BY THE ARCHITECT.
- NO WELDING OF REINFORCING STEEL SHALL BE ALLOWED.
- LAP SPLICES: SEE SCHEDULE BELOW.
- FORM REMOVAL: SIDE FORMS OF FOOTINGS SLABS ON GRADE, MINIMUM 7 DAYS.
- VIBRATION: VIBRATE ALL CONCRETE IN PLACE WITH A MECHANICAL VIBRATOR USED BY EXPERIENCED PERSONNEL.
- TESTING: IN ACCORDANCE WITH ACI-318, SECTION 28.12. SEE SPECIFICATIONS FOR TAKING OF TEST SAMPLES.
- DRILLED AND EXPLOKED ANCHOR BOLTS: WHERE ANCHOR BOLTS OR HOLDOWN BOLTS ARE OMITTED, BOLTS SHALL BE SUBSTITUTED WITH DRILLED OR EXPLOKED ANCHORS PER ENGINEERS WRITTEN DIRECTION.

CONCRETE REINFORCEMENT COVER

LOCATION	MINIMUM COVER
CONCRETE CAST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THROUGH #18 BAR	2"
#5 BAR, W31 OR D31, AND SMALLER	1 1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS, JOISTS:	
#14 AND #18 BAR	1 1/2"
#11 BAR AND SMALLER	1"

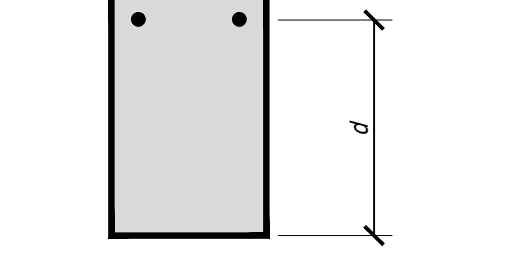
CONCRETE REINFORCEMENT LAP SPLICES

MIN. SPLICES UNLESS OTHERWISE DIMENSIONED ON DRAWINGS:

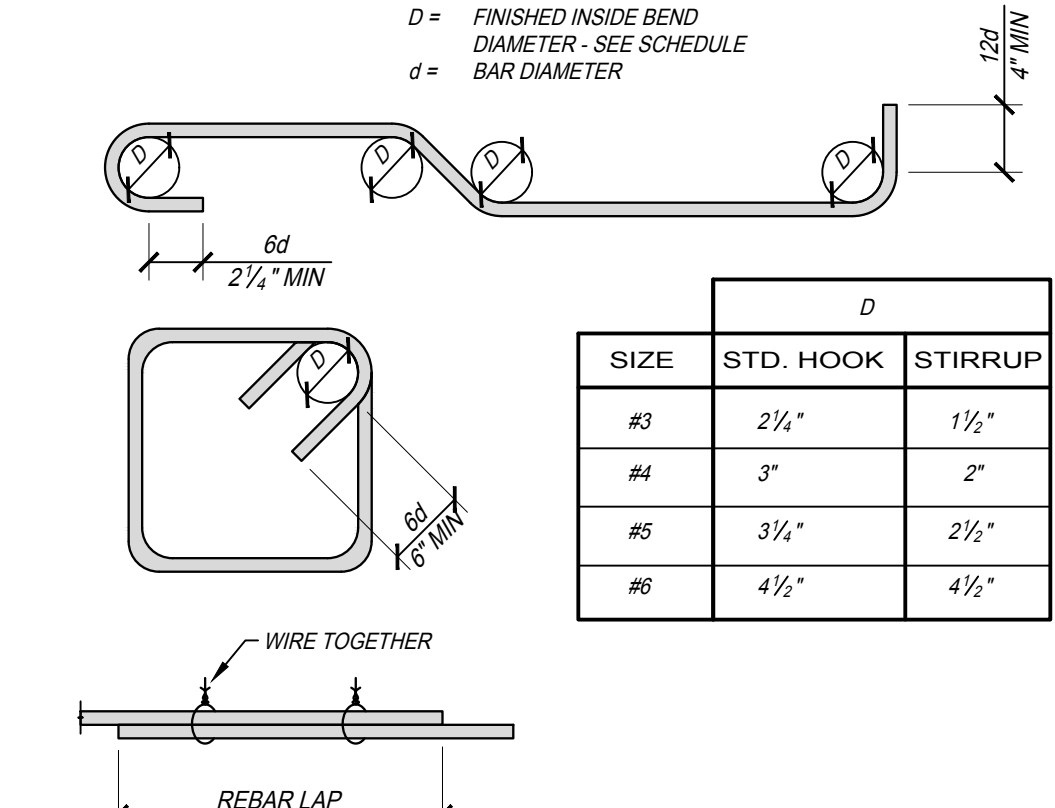
CONCRETE BAR TYPES	LAP TYPE
FOOTING BARS (OTHER THAN TOP BARS)	CL1
HORIZ. & VERT. WALL BARS	CL2
FOOTING TOP BARS	CL2

BAR SIZE	CL1	CL2	CL3
#4	24"	30"	48"
#5	30"	36"	60"
#6	40"	48"	72"

TOP BAR = HORIZ. BARS WHERE $d \geq 12"$ FRESH CONCRETE PLACED BELOW HORIZ. REIN.



REINFORCEMENT BENDING REQUIREMENTS

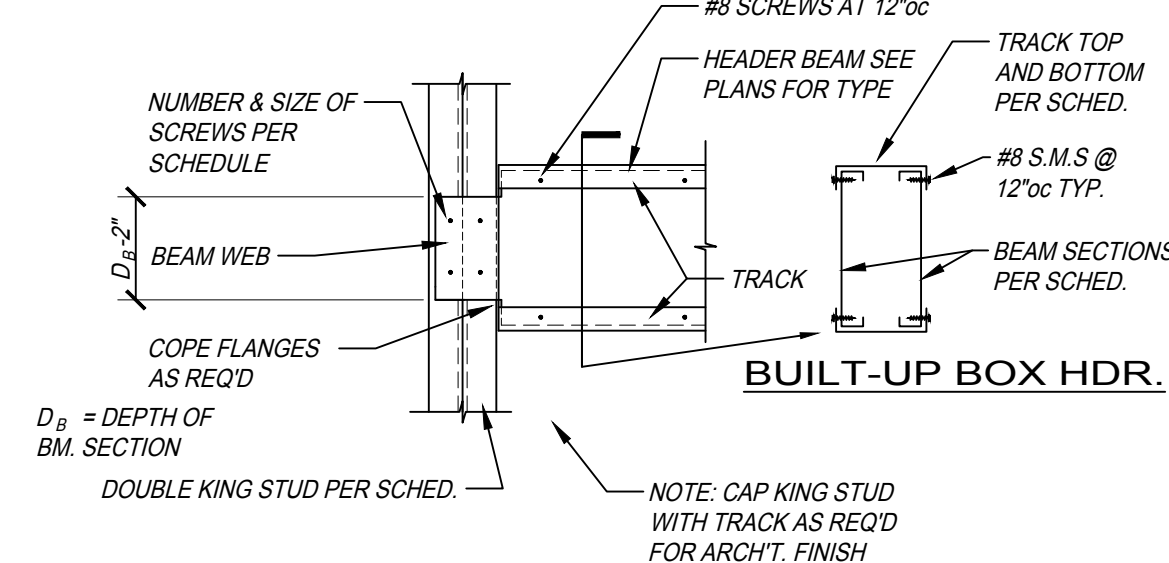


SIZE	STD. HOOK	STIRRUP
#3	2 1/4"	1 1/2"
#4	3"	2"
#5	3 1/2"	2 1/2"
#6	4 1/2"	3 1/2"

1. GENERAL NOTES

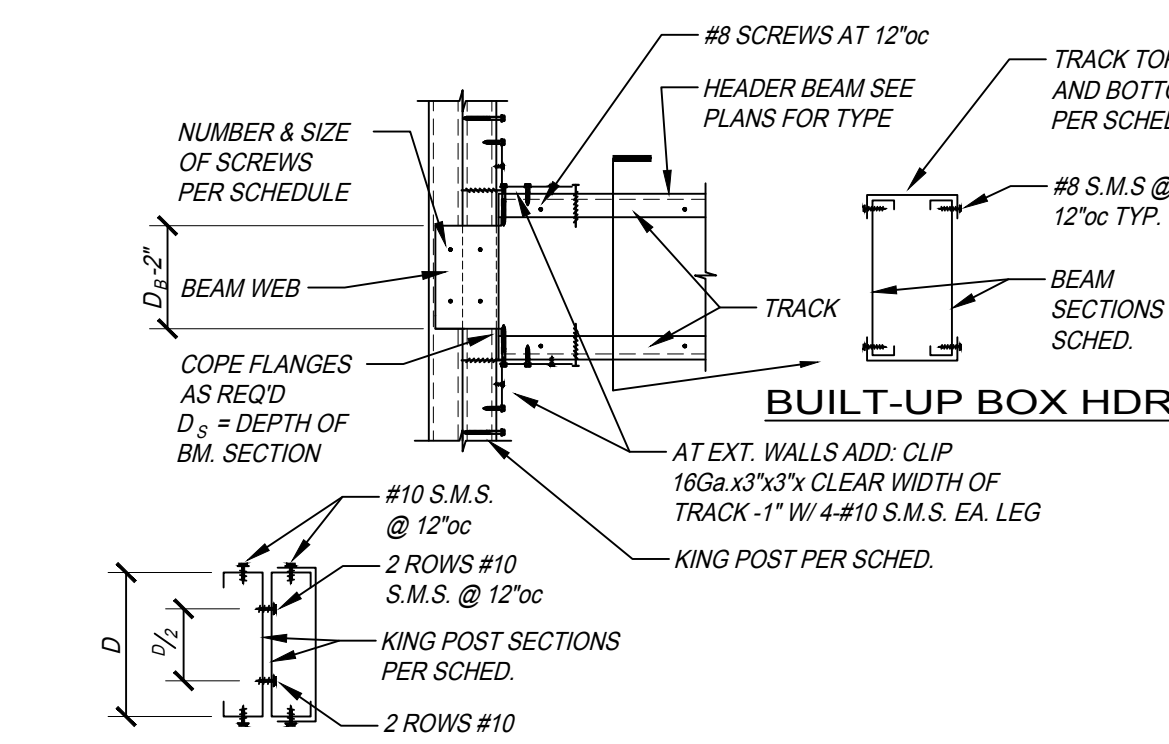
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE CALIFORNIA BUILDING CODE (CBC), 2016 EDITION, AND ALL OTHER PUBLICATIONS AND STANDARDS LISTED HEREIN.
- ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS.
-

INTERIOR/NON-STRUCTURAL WALL HEADER BEAM SCHEDULE					
CONN. TYPE	TRACKS (X=WALL WIDTH)	UNPUNCHED BEAM	BEAM SPAN	SCREWS	KING STUD (X=WALL WIDTH)
A'	X007150-33	800S162-33	6'-0"	4-#10 (2 EA. SIDE)	1-X00S162-33
B'	X007150-33	800S162-33	10'-0"	8-#10 (4 EA. SIDE)	2-X00S162-33
C'	X007150-33	1000S162-54	12'-0"	12-#10 (6 EA. SIDE)	2-X00S162-54



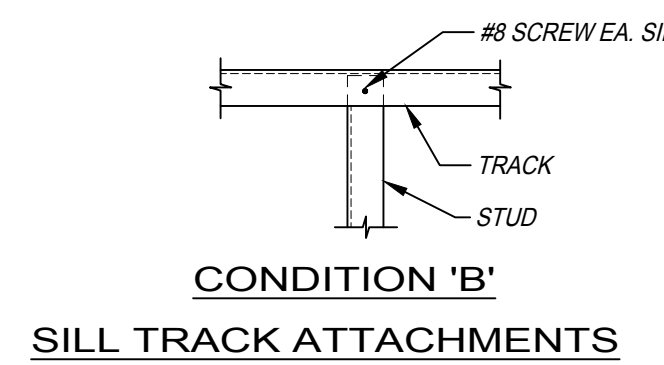
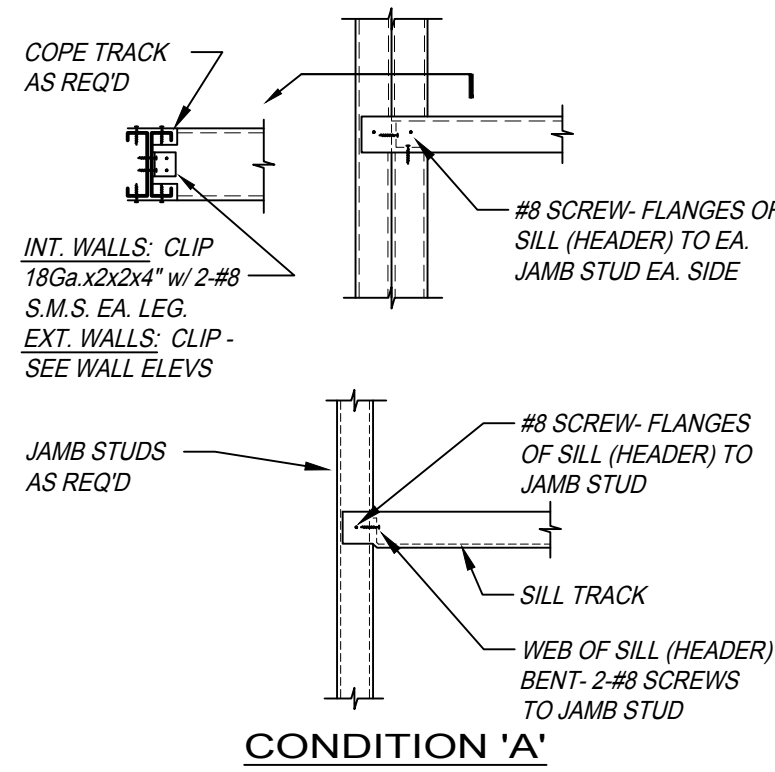
EXTERIOR & INTERIOR BEARING WALL HEADER BEAM CONNECTION

HEADER TYPE	TRACKS (X=WALL WIDTH)	UNPUNCHED BEAM	MAX. BEAM LENGTH	SCREWS	KING POST
EH-1	600T150-54	800S162-54	10'-8"	6-#10 (3 EA. SIDE)	1-600T150-54 2-600S162-54
EH-2	600T150-43	600S162-54	5'-4"	4-#10 (4 EA. SIDE)	1-600T150-54 1-600S162-54



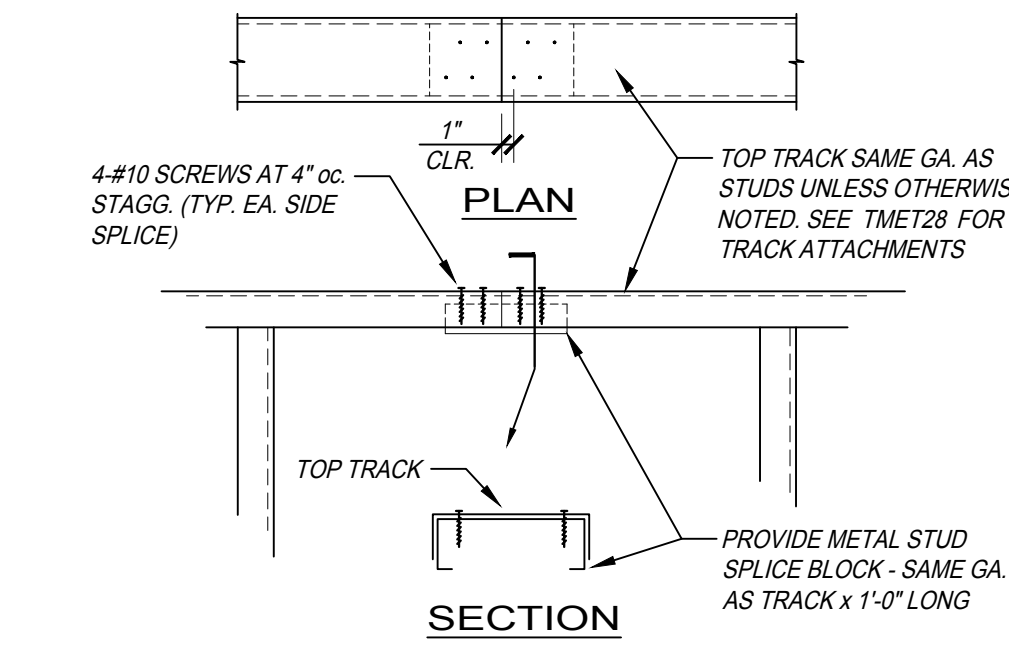
DETAIL

SCALE: 3/4" = 1'-0" TMET11 S1.1



DETAIL

SCALE: 3/4" = 1'-0" TMET07 S1.1

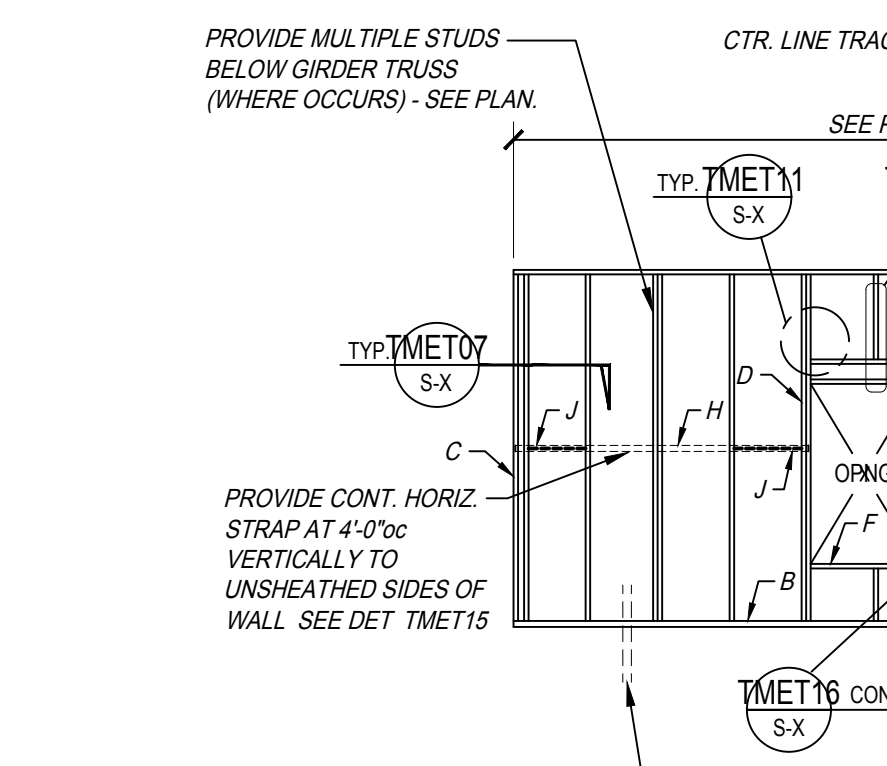


DETAIL

SCALE: 3/4" = 1'-0" TMET08 S1.1

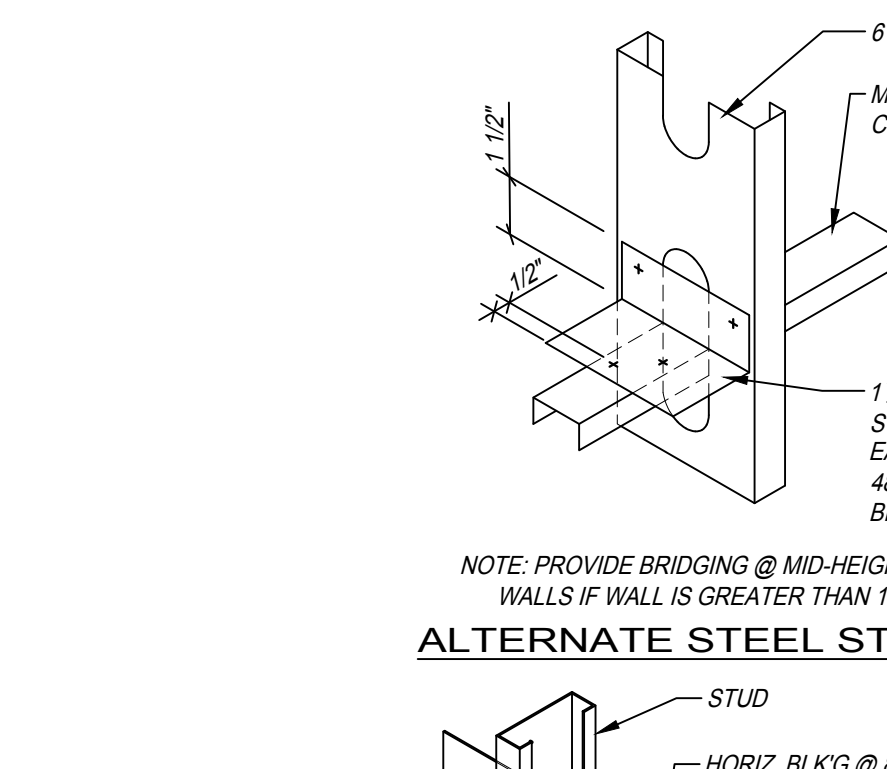
DETAIL

SCALE: 3/4" = 1'-0" TMET13 S1.1



DETAIL

SCALE: 3/4" = 1'-0" TMET10 S1.1



DETAIL

SCALE: 3/4" = 1'-0" TMET10-DSA S1.1

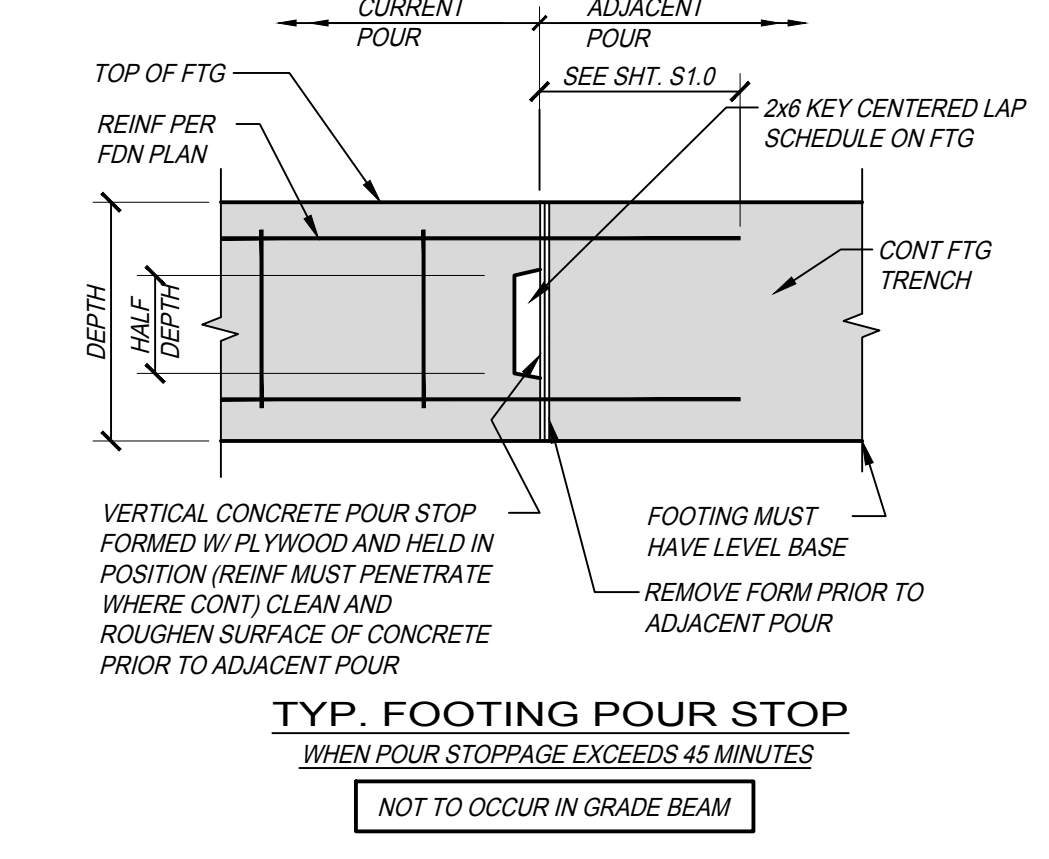


DETAIL

SCALE: 3/4" = 1'-0" TMET15 S1.1

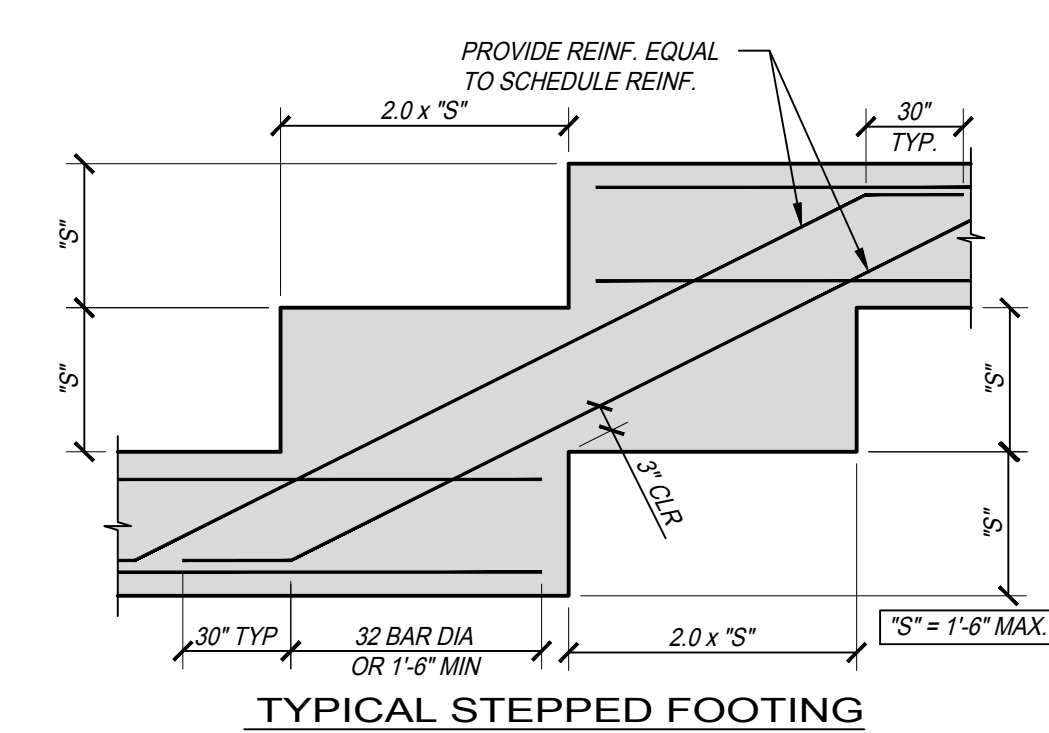
DETAIL

SCALE: 3/4" = 1'-0" TMET15 S1.1



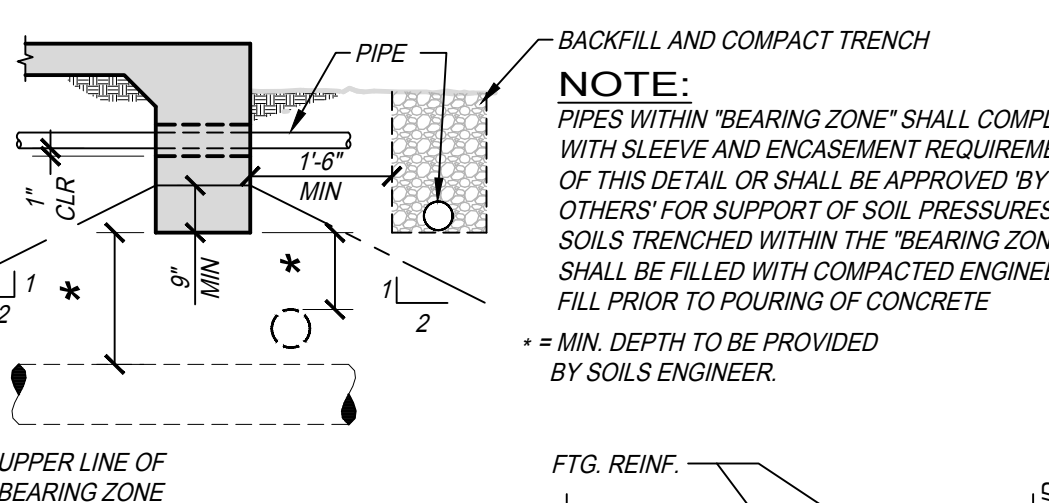
DETAIL

SCALE: 3/4" = 1'-0" TFDNA S1.1



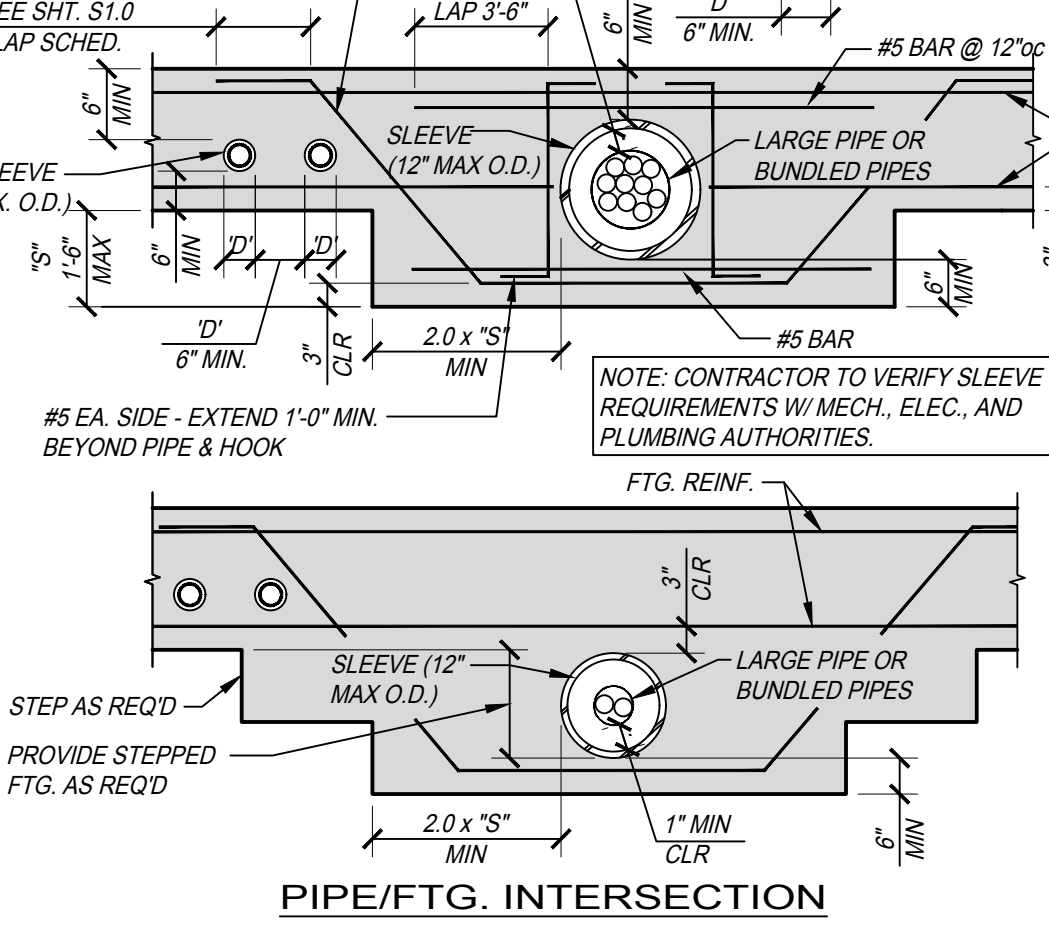
DETAIL

SCALE: 3/4" = 1'-0" TFDNA S1.1



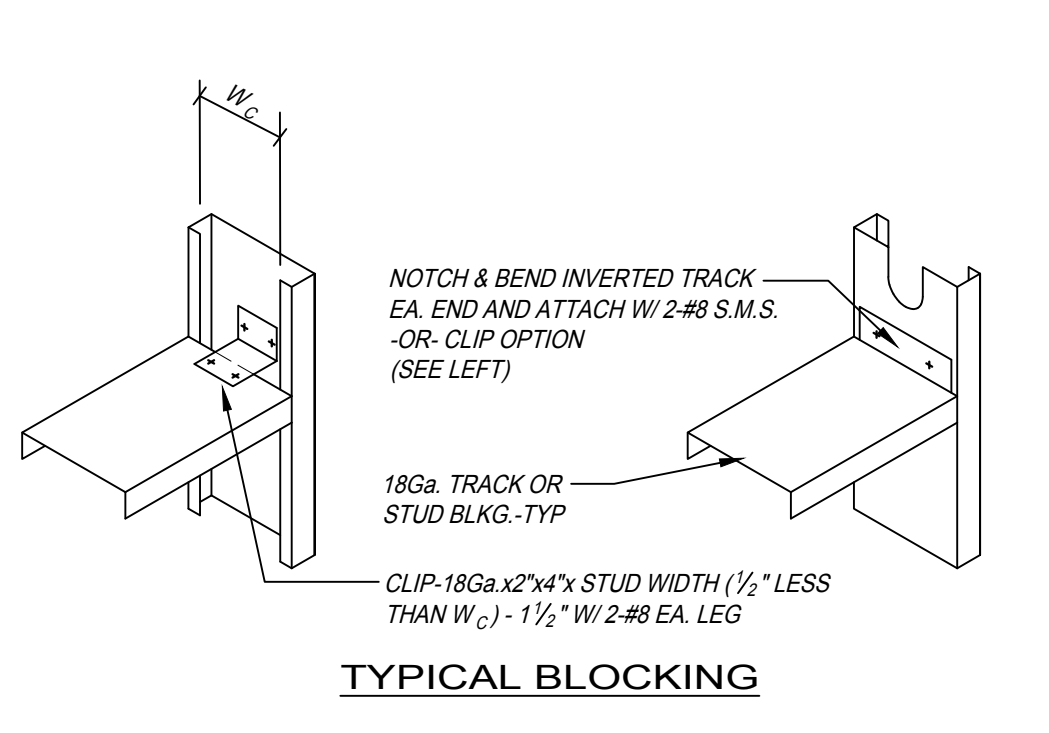
DETAIL

SCALE: 3/4" = 1'-0" TFDN07 S1.1



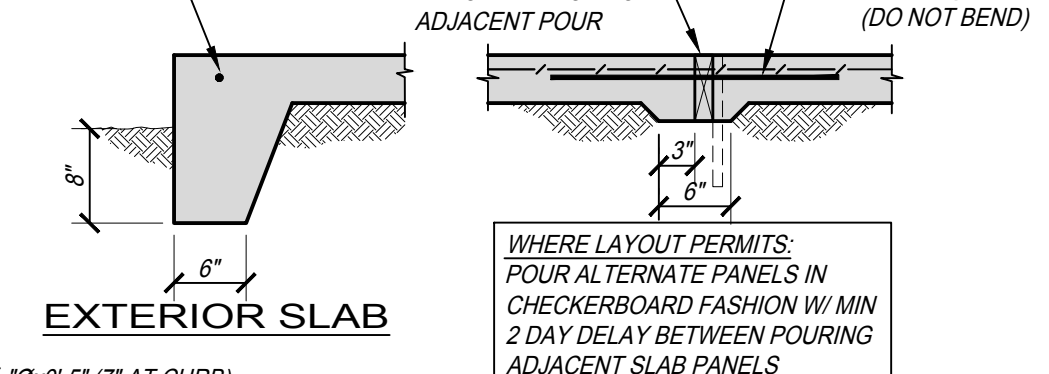
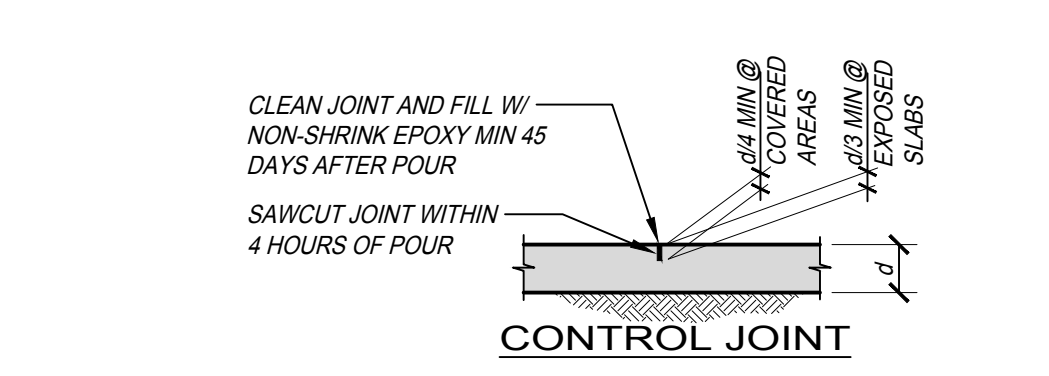
DETAIL

SCALE: 3/4" = 1'-0" TFDN07 S1.1



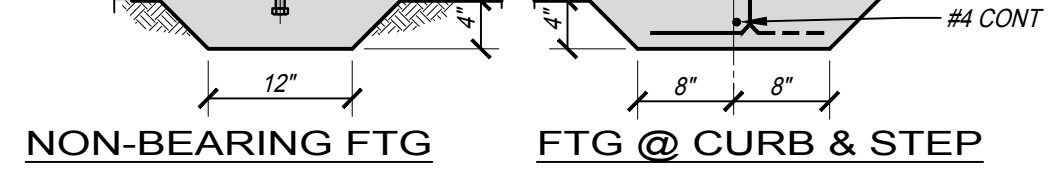
DETAIL

SCALE: 3/4" = 1'-0" TMET14 S1.1



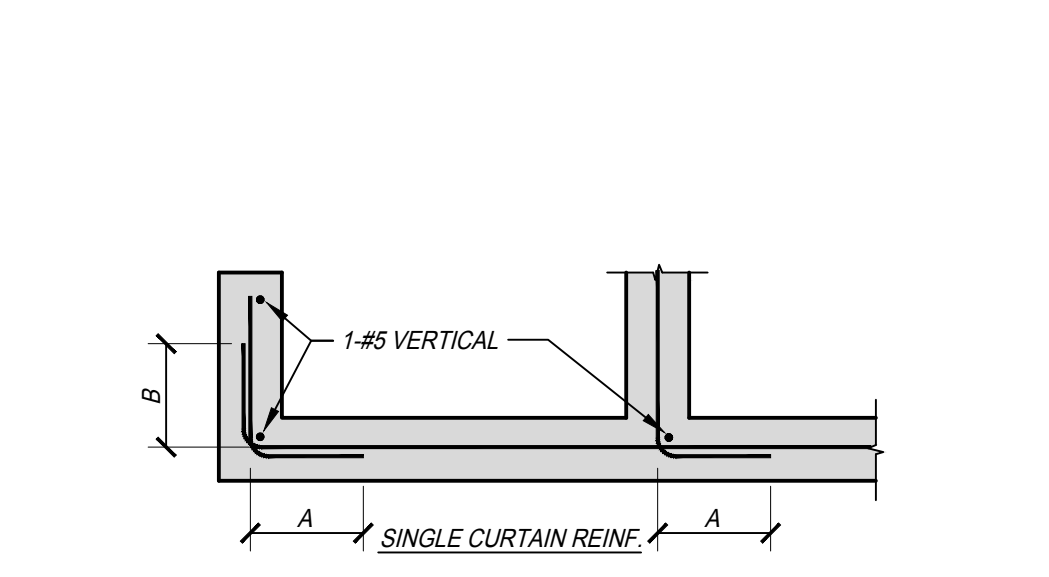
DETAIL

SCALE: 3/4" = 1'-0" TFDN03 S1.1



DETAIL

SCALE: 3/4" = 1'-0" TFDN03 S1.1



DETAIL

SCALE: 3/4" = 1'-0" TFDN03 S1.1

BAR SIZE	#4	#5	#6	#7	#8	#9
GRADE 40	1'-6"	1'-6"	1'-6"	1'-10"	2'-5"	3'-0"
GRADE 60	1'-9"	1'-9"	2'-4"	3'-2"	4'-2"	5'-2"

DETAIL

SCALE: 3/4" = 1'-0" TFDN03 S1.1

MASONRY LAP SPLICES

BAR SIZE	MIN COVER	MIN LAP LENGTH
#4	3"	24"
#5	3"	28"

- LAP SPLICES SHOWN ARE FOR:
- WALL HORIZONTAL BARS
 - WALL VERTICAL BARS
 - WALL DOWELS TO FOOTING

TYPICAL BLOCK REINFORCEMENT AT WALL INTERSECTIONS

DETAIL

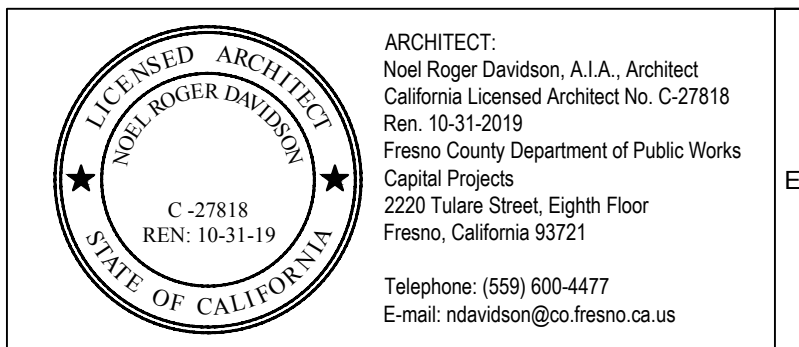
SCALE: 3/4" = 1'-0" TMA32 S1.1

DETAIL

SCALE: 3/4" = 1'-0" TMET15 S1.1

DETAIL

SCALE: 3/4" = 1'-0" TMET14 S1.1



Project:
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, 05, and 06
ISSUE DATE: 06.01.2020
PROJECT NO.: 180293 | 180203
FILE NAME: S1.0 - Substation

Sheet Content:

TYPICAL DETAILS

Fresno County Department of Public Works and Planning Capital Projects

PARRISH HANSEN
STRUCTURAL ENGINEERS
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418 GLOVIS AVE. ■ GLOVIS CA 93612
PHONE 559.323.1023 ■ FAX 559.323.8090
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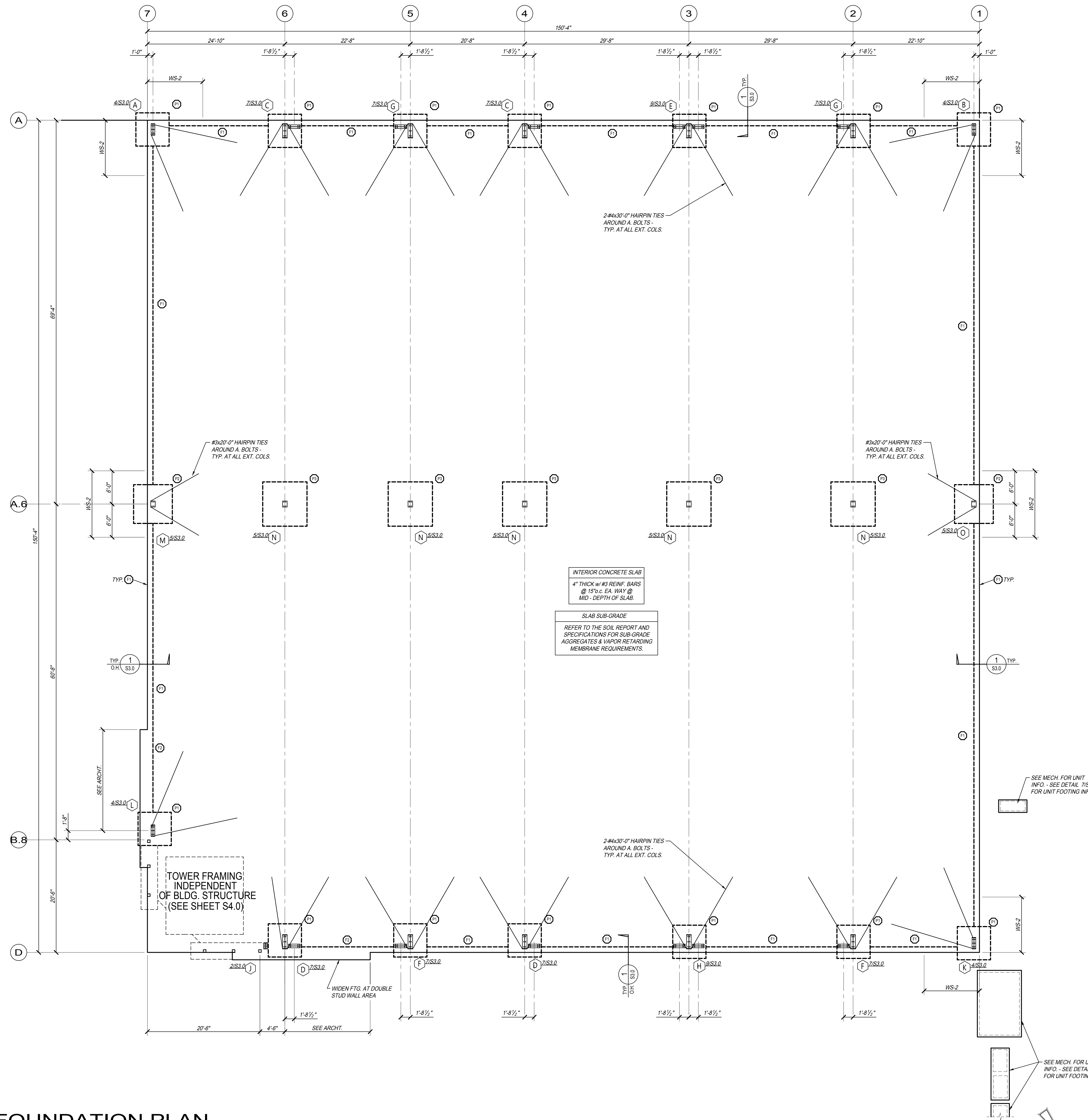
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.

S1.1

Drawn by: SMP Plot date: 06.01.2020

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FOUNDATION PLAN
(SUBSTATION)

SCALE: 1/8" = 1'-0"

- FOUNDATION NOTES**
- REFER TO GENERAL NOTES AND TYPICAL DETAILS ON S.10.
 - ALL EMBEDDED ITEMS SHALL BE IN PLACE & SECURED PRIOR TO POURING OF CONCRETE.
 - ⊖ = FOOTING TYPE - SEE "FOOTING SCHEDULE"
 - OR H = STEEL COLUMN

FOOTING SCHEDULE		
TYPE	SIZE	REINFORCEMENT
⊖	1'-0" WIDE x 1'-6" DEEP	2-#5 CONT. TOP 2-#5 CONT. BOTTOM
⊖	2'-4" WIDE x 1'-6" DEEP	3-#5 CONT. TOP w/ #4 TIES @ 24" o.c.
⊖	8'-0" SQUARE x 2'-0" DEEP	6-#5 EA. WAY (TOP & BOTTOM)
⊖	7'-0" SQUARE x 2'-0" DEEP	7-#5 EA. WAY (TOP & BOTTOM)
⊖	8'-0" SQUARE x 2'-0" DEEP	8-#5 EA. WAY (TOP & BOTTOM)

NOTES:
 1. ALL FOOTINGS SHALL EXTEND A MINIMUM OF 1'-6" INTO NATIVE SOIL.
 2. SEE DETAILS FOR FOOTING SIZE AND REINF. REQUIRED AT ALL RETAINING WALLS.
 3. FOOTING ARE TYPE ⊖ UNLESS NOTED OTHERWISE.

⊖ = CBC BASE PLATE REFERENCE
 ⊖ = FOOTING DETAIL REFERENCE

EXTERIOR WALL STUD SCHEDULE			
TYPE	SIZE	SPACING	SILL & TOP TRACKS
WS-1	600 'S3'	16" o.c.	800 'T2' OR 'T3'
WS-2	600 'S3'	8" o.c.	800 'T2' OR 'T3'

NOTE: ALL EXT. STUD WALLS ARE TYPE WS-1 UNLESS NOTED.

ARCHITECT
 Neil Roger Davidson, A.I.A., Architect
 California Licensed Architect No. C-27818
 Plan: 10-31-2019
 Fresno County Department of Public Works
 Capital Projects
 2201 Tulare Street, Eighth Floor
 Fresno, California 93721
 Telephone: (559) 600-4477
 E-mail: ndavidson@co.fresno.ca.us

Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 06.01.2020
 PROJECT NO.: 180293 | 19023
 FILE NAME: S2.0 - Substation

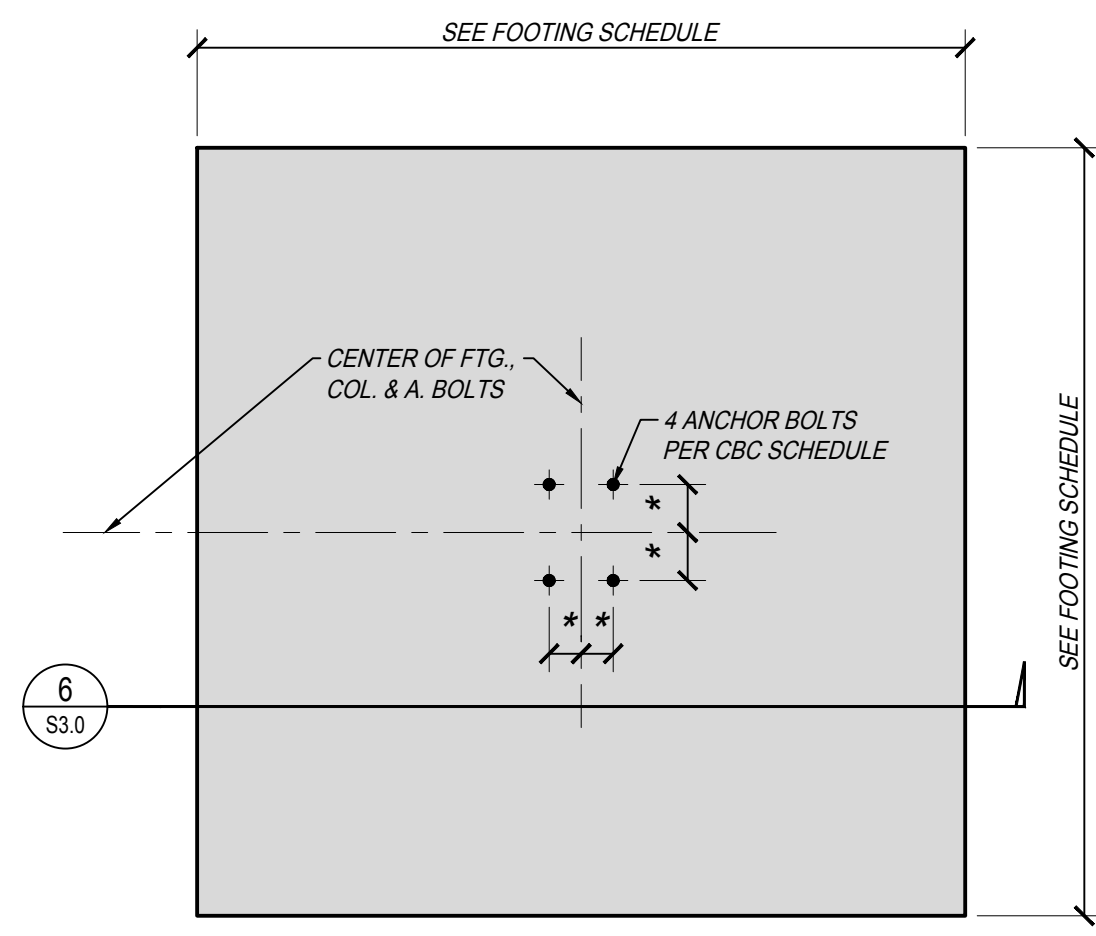
Sheet Content:
 FOUNDATION PLAN

Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
S2.0

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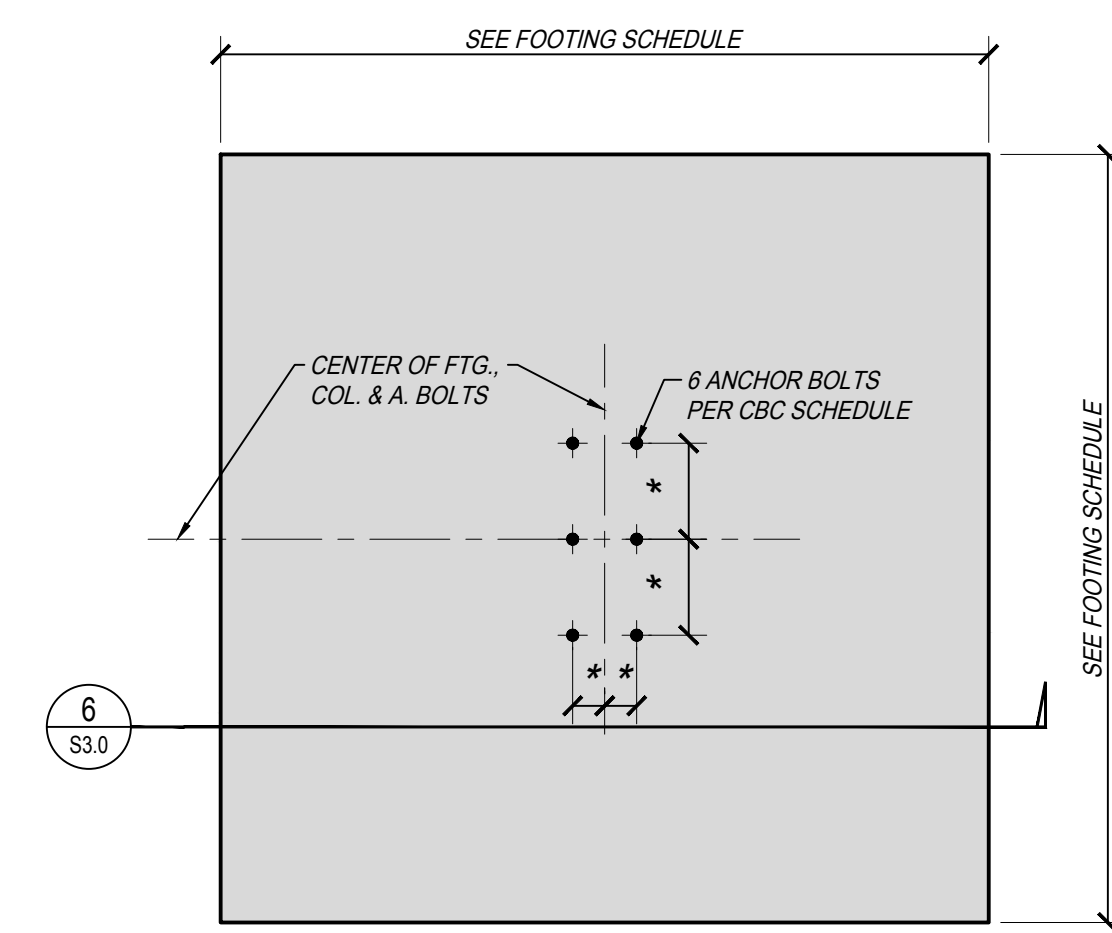


REFERENCE STORAGE: CBC BASE
PLATE TYPE, DETAIL - A,B,C,F,G,H
REFERENCE SUBSTATION: CBC BASE
PLATE TYPE, DETAIL - M,N,O

DETAIL

SCALE: 1" = 1'-0"

FDN05 S3.0

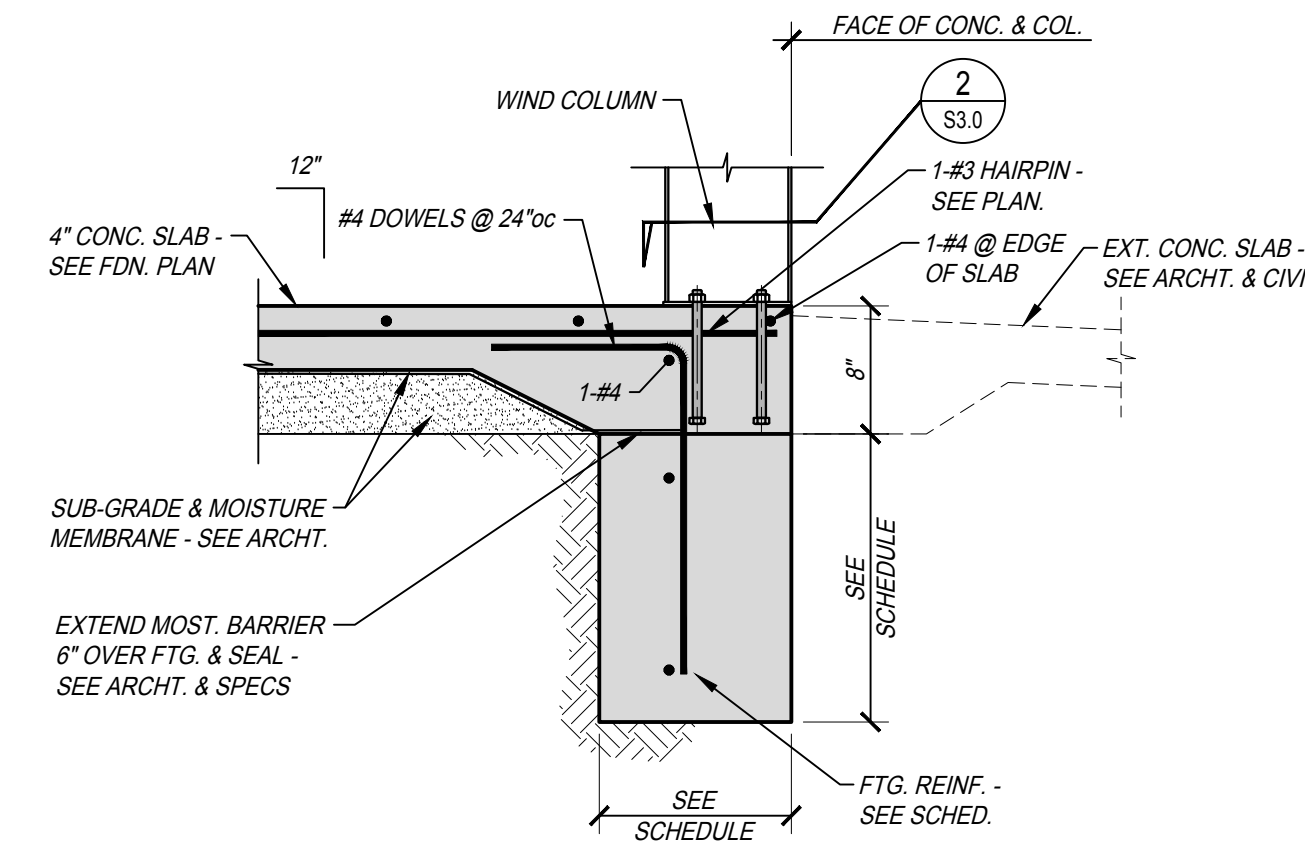


REFERENCE SUBSTATION: CBC BASE
PLATE TYPE, DETAIL - L,K,A,B

DETAIL

SCALE: 1" = 1'-0"

FDN03 S3.0



REFERENCE STORAGE: CBC BASE
PLATE TYPE, DETAIL - D,E
REFERENCE SUBSTATION: CBC BASE
PLATE TYPE, DETAIL - J

DETAIL

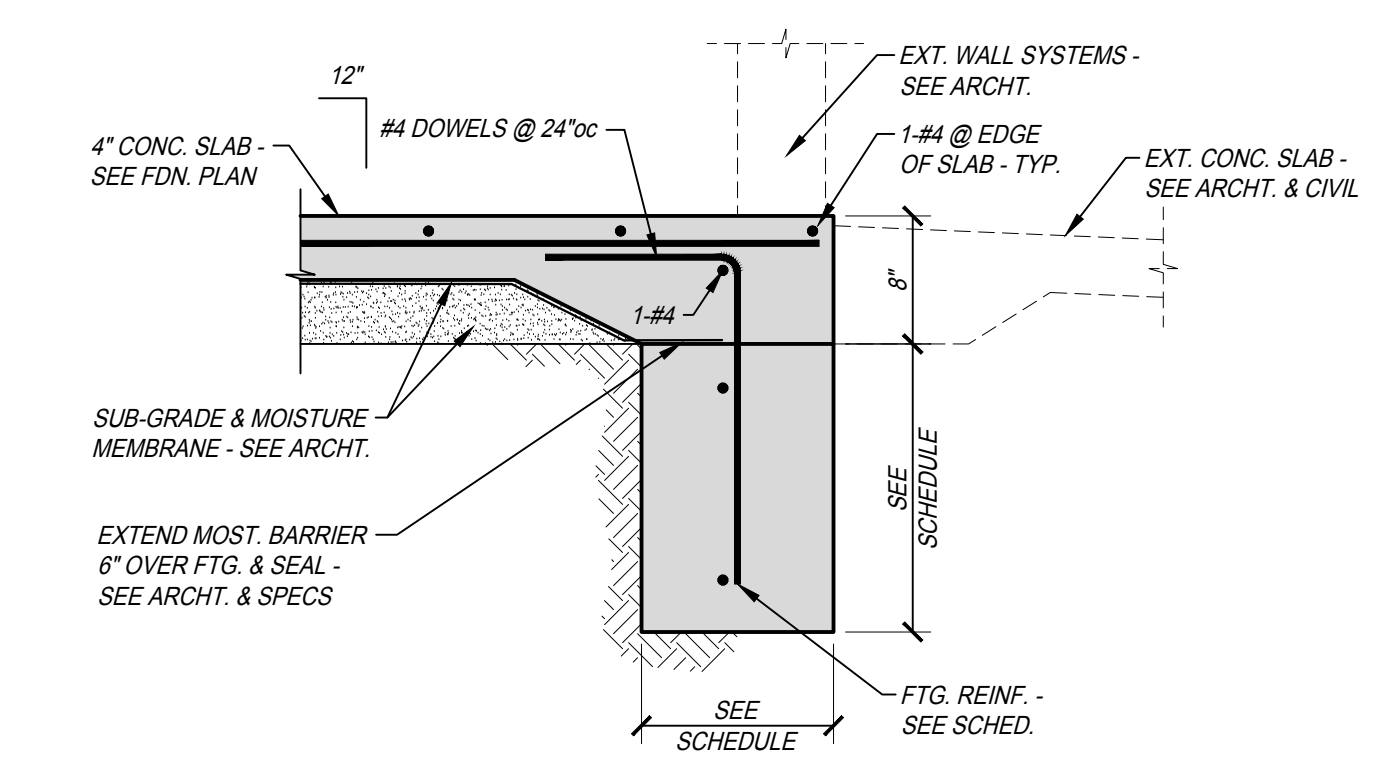
SCALE: 1" = 1'-0"

FDN01 S3.0

DETAIL

SCALE: 1" = 1'-0"

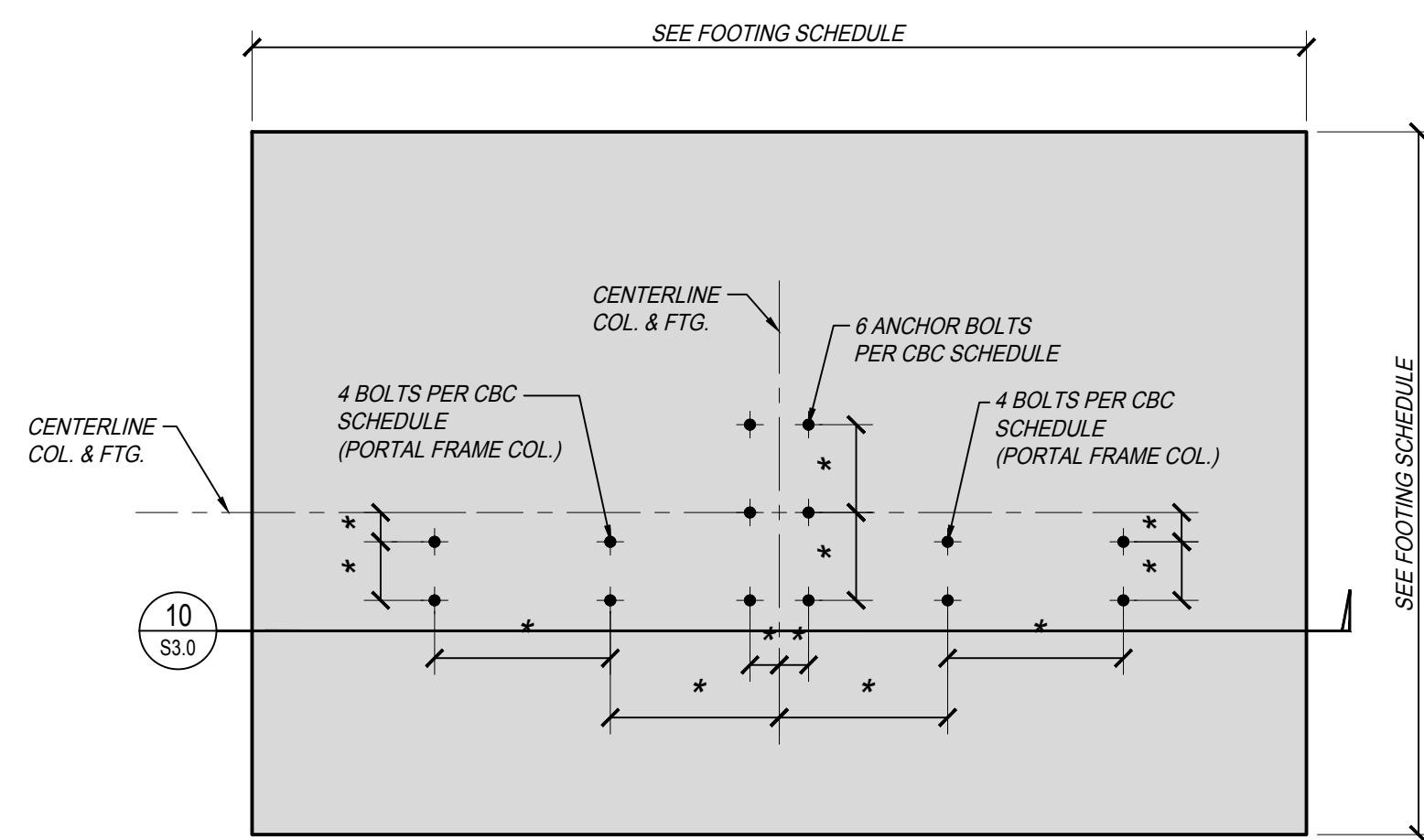
FDN10 S3.0



DETAIL

SCALE: 1" = 1'-0"

FDN02 S3.0

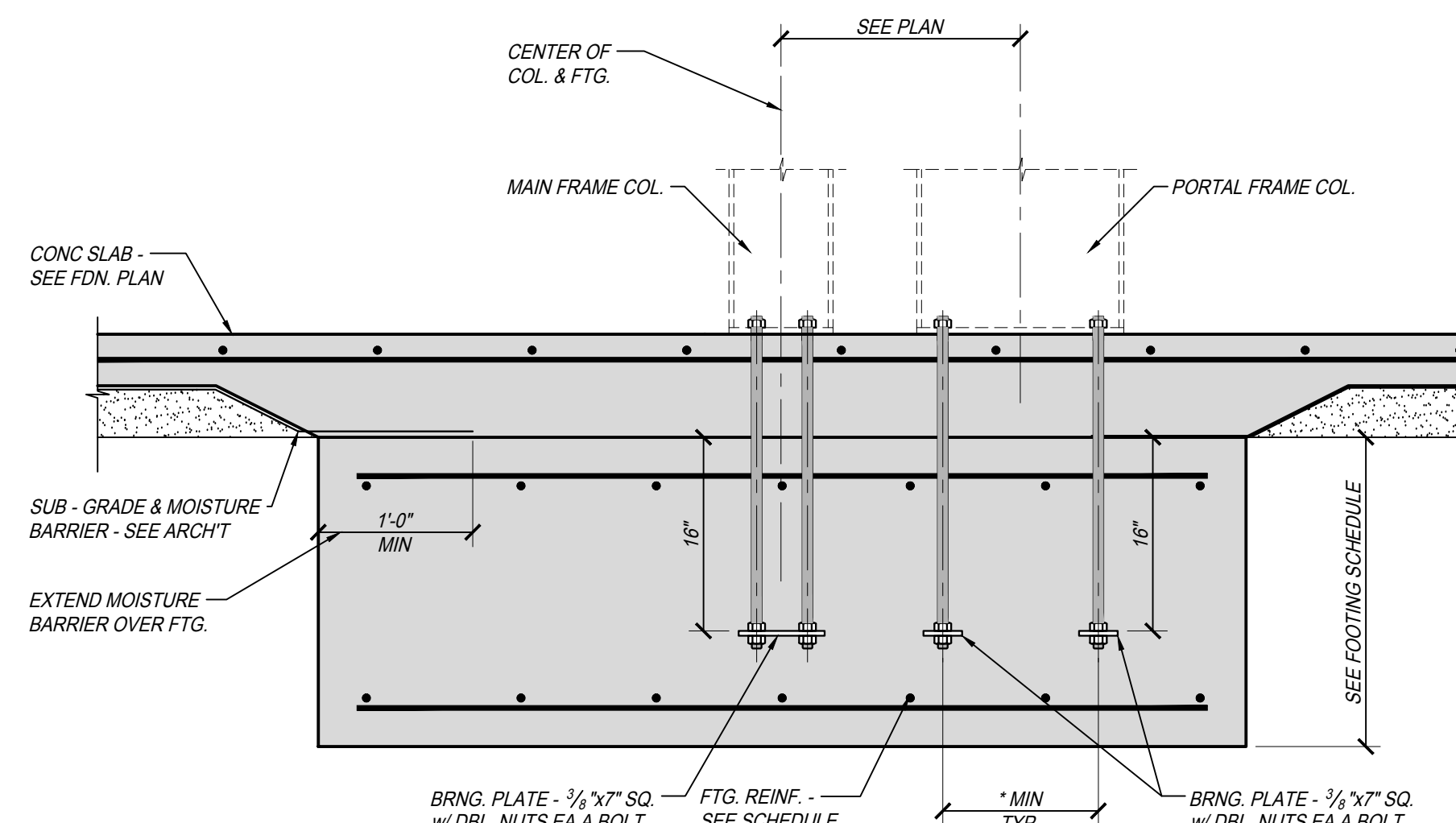


REFERENCE SUBSTATION: CBC BASE
PLATE TYPE, DETAIL - E,H

DETAIL

SCALE: 1" = 1'-0"

FDN06 S3.0



REFERENCE SUBSTATION: CBC BASE
PLATE TYPE, DETAIL - C,D,F,G

DETAIL

SCALE: 1" = 1'-0"

FDN08 S3.0

DETAIL

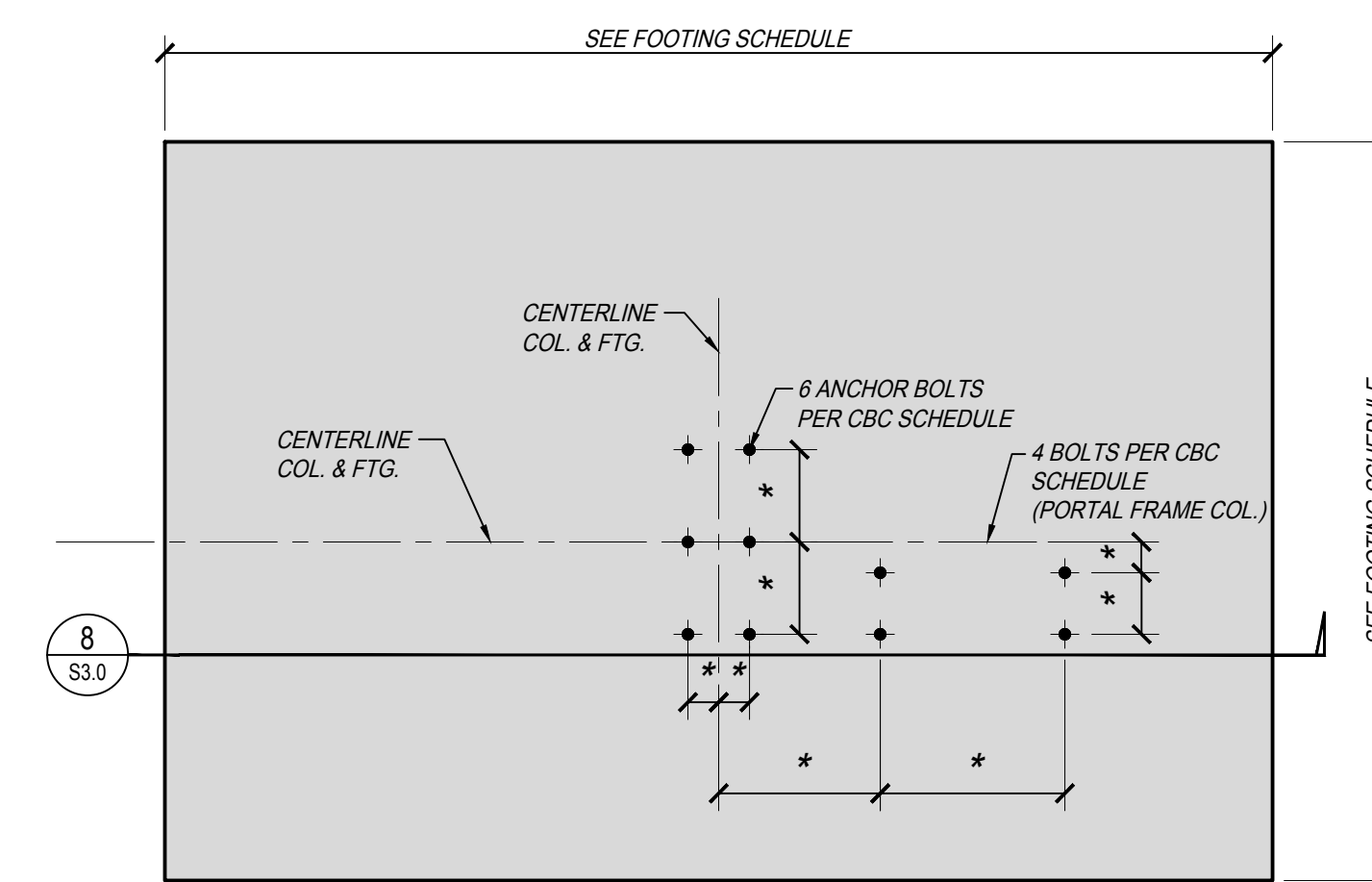
SCALE: 1" = 1'-0"

FDN04 S3.0

DETAIL

SCALE: 1" = 1'-0"

FDN09 S3.0



REFERENCE SUBSTATION: CBC BASE
PLATE TYPE, DETAIL - J

DETAIL

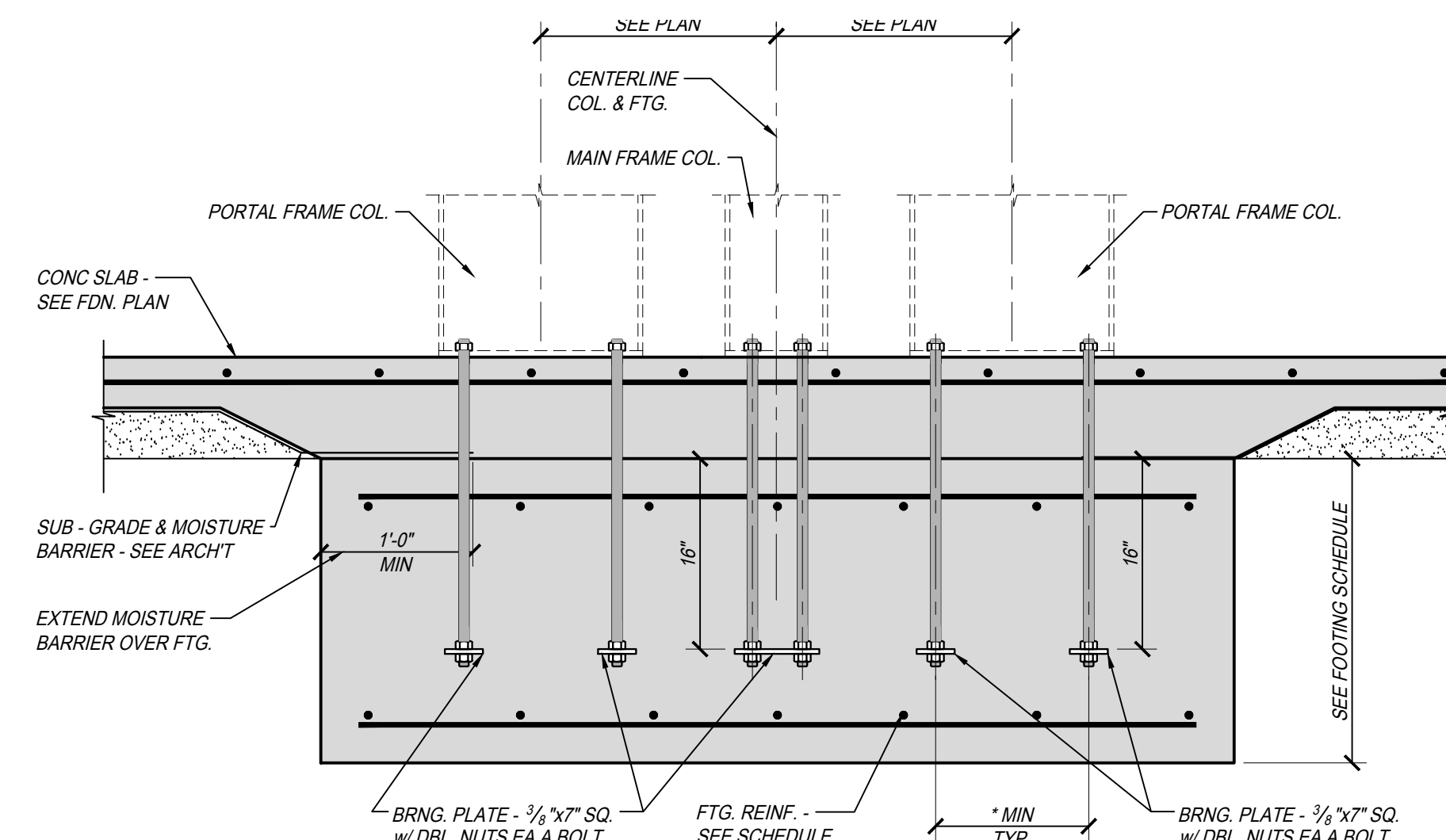
SCALE: 1" = 1'-0"

FDN04 S3.0

DETAIL

SCALE: 1" = 1'-0"

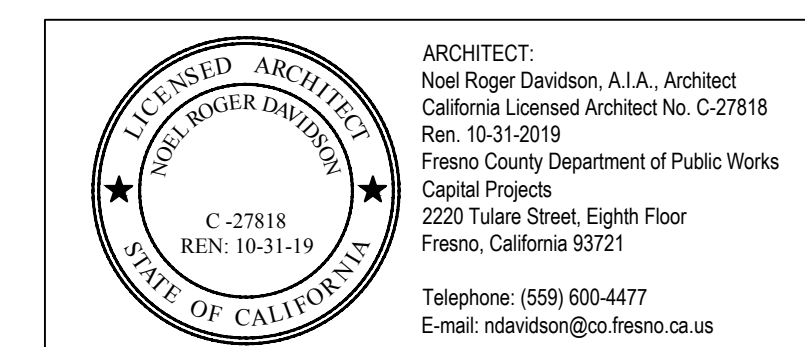
FDN09 S3.0



DETAIL

SCALE: 1" = 1'-0"

FDN08 S3.0



Project:
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 06.01.2020
PROJECT NO.: 180293 / 19003
FILE NAME: S3.0

Sheet Content:
FOUNDATION DETAILS

Fresno County Department of
Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

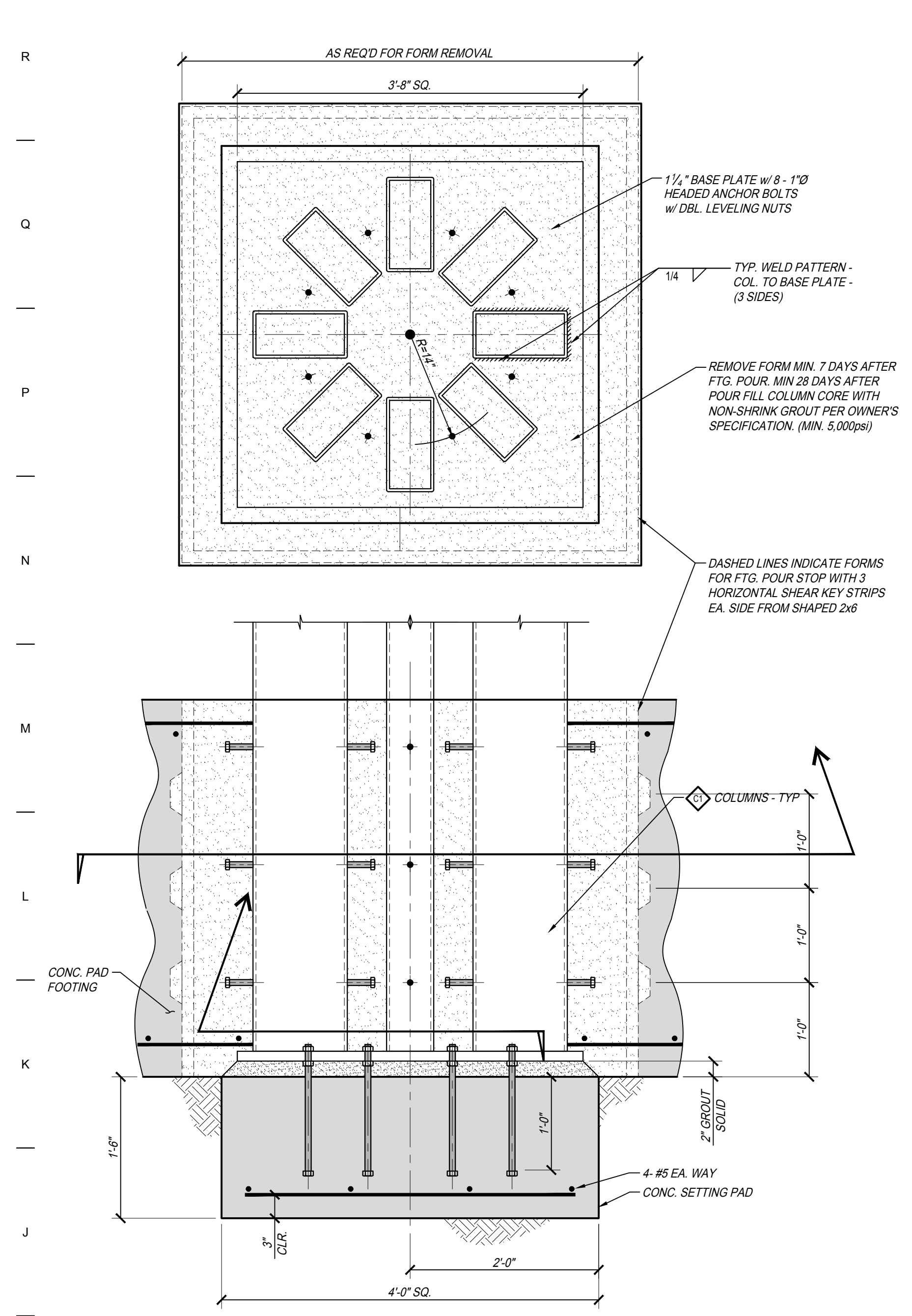
Sheet No.
S3.0

Drawn by: SMP Plot date: 06.01.2020

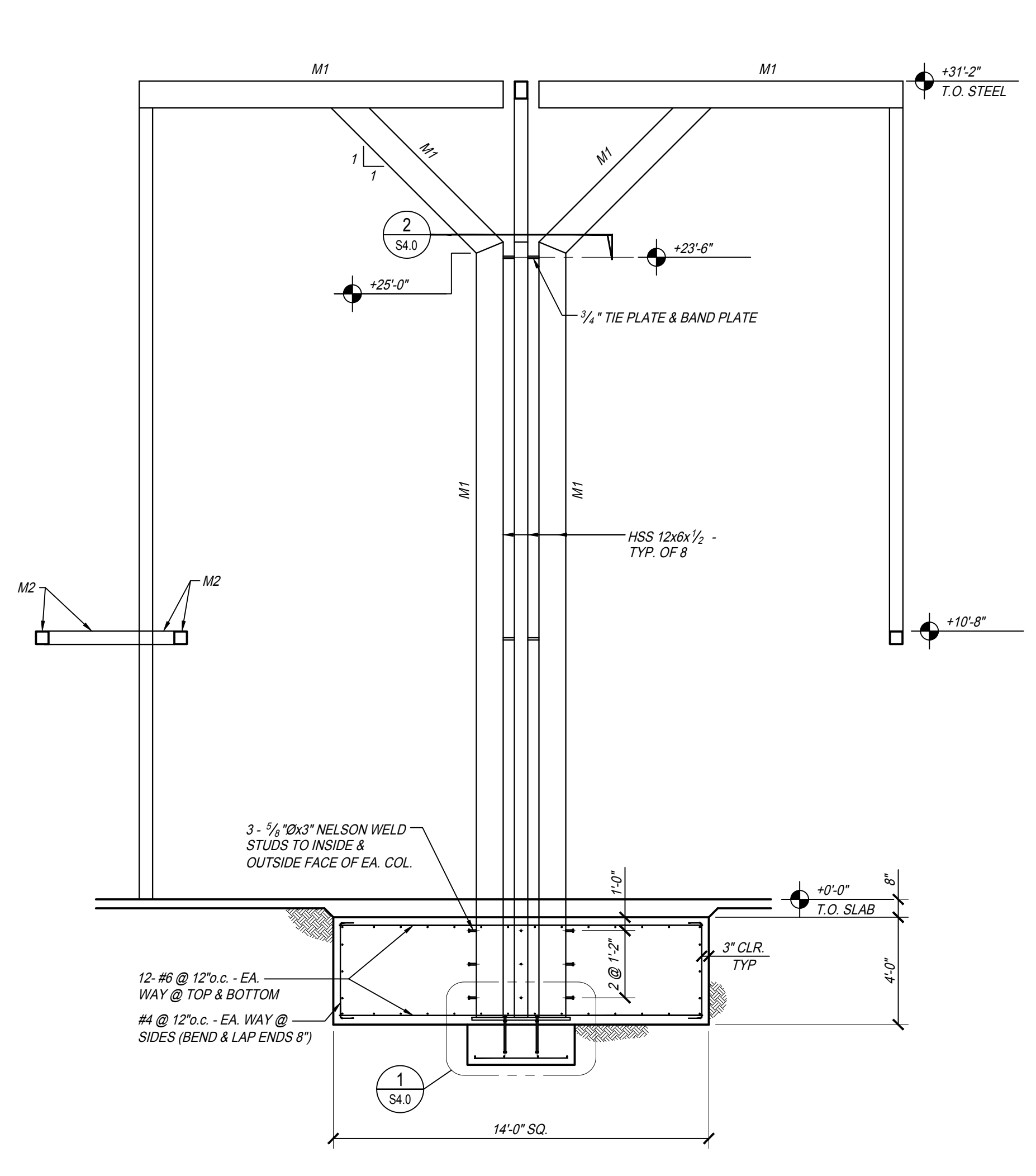


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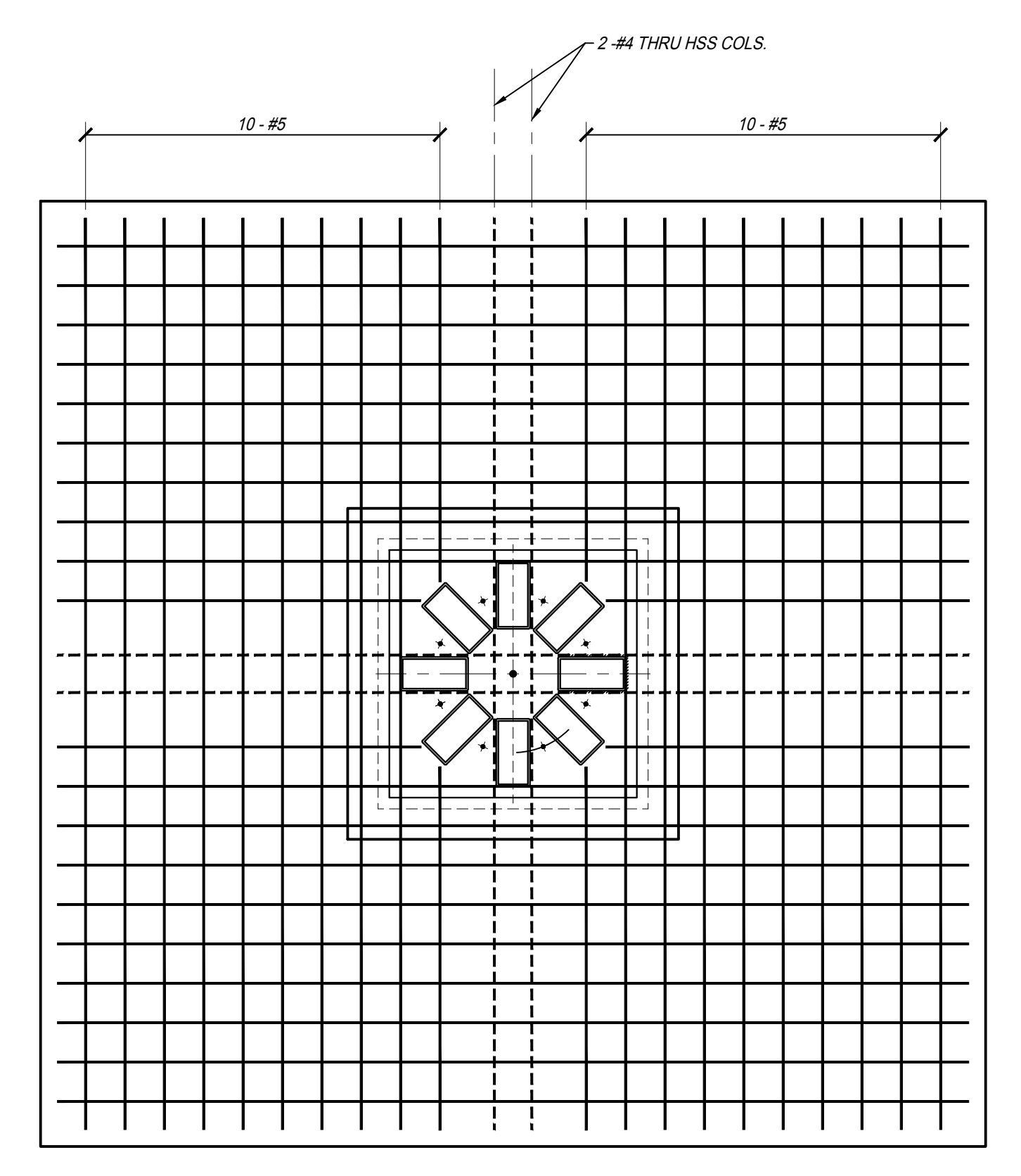
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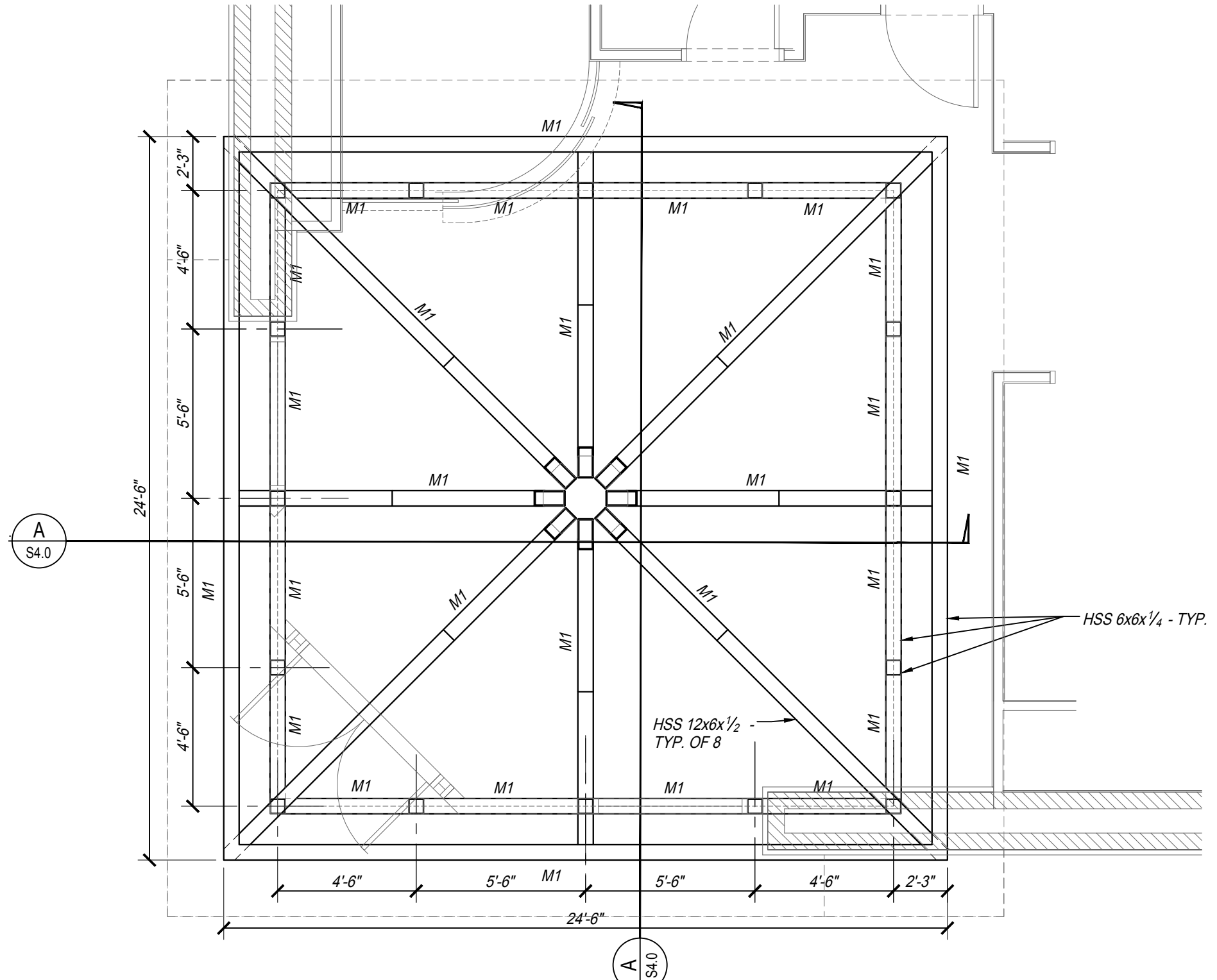
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F0601 S4.0



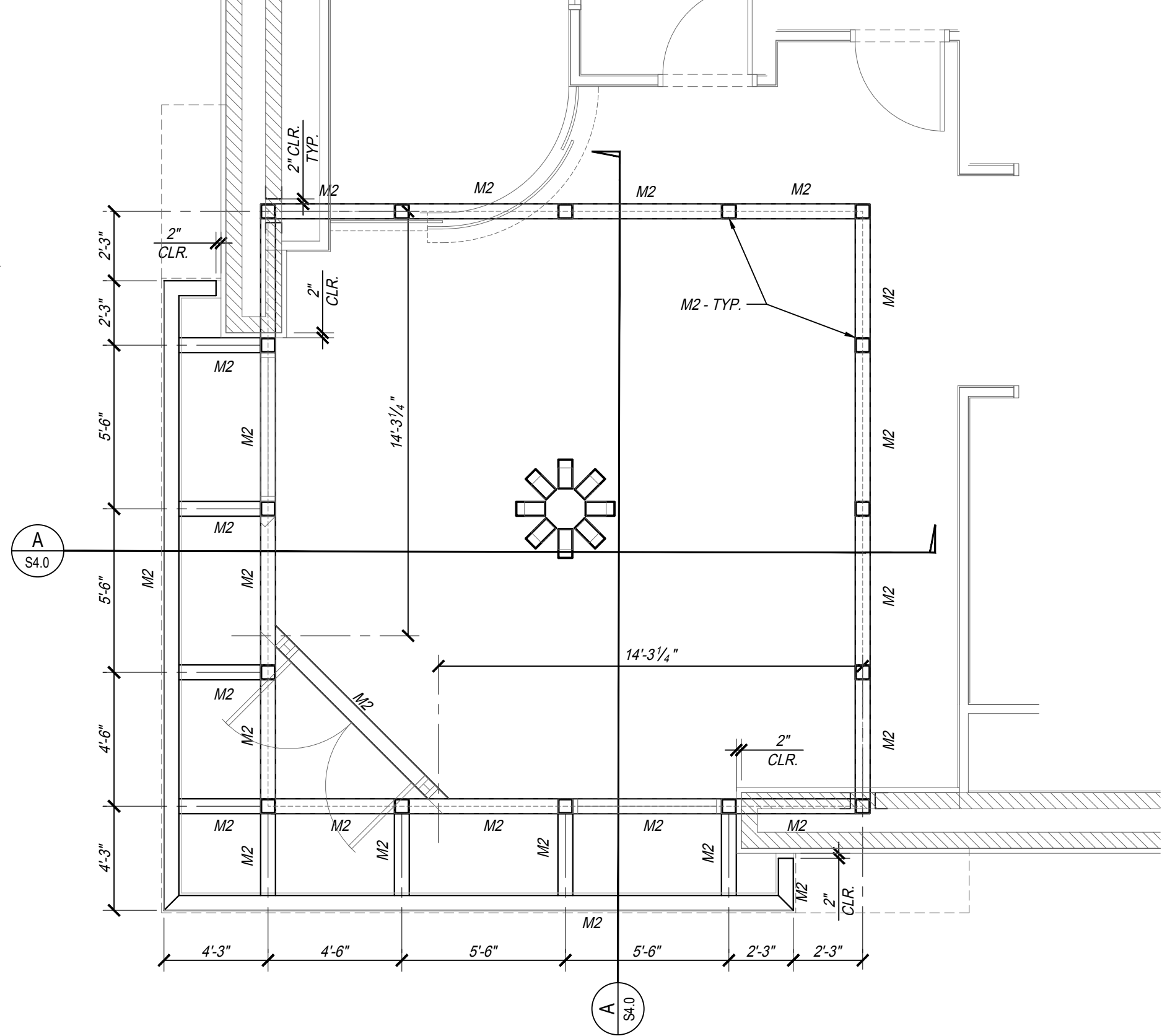
SECTION
SCALE: 1/4" = 1'-0"
SEC01 S4.0



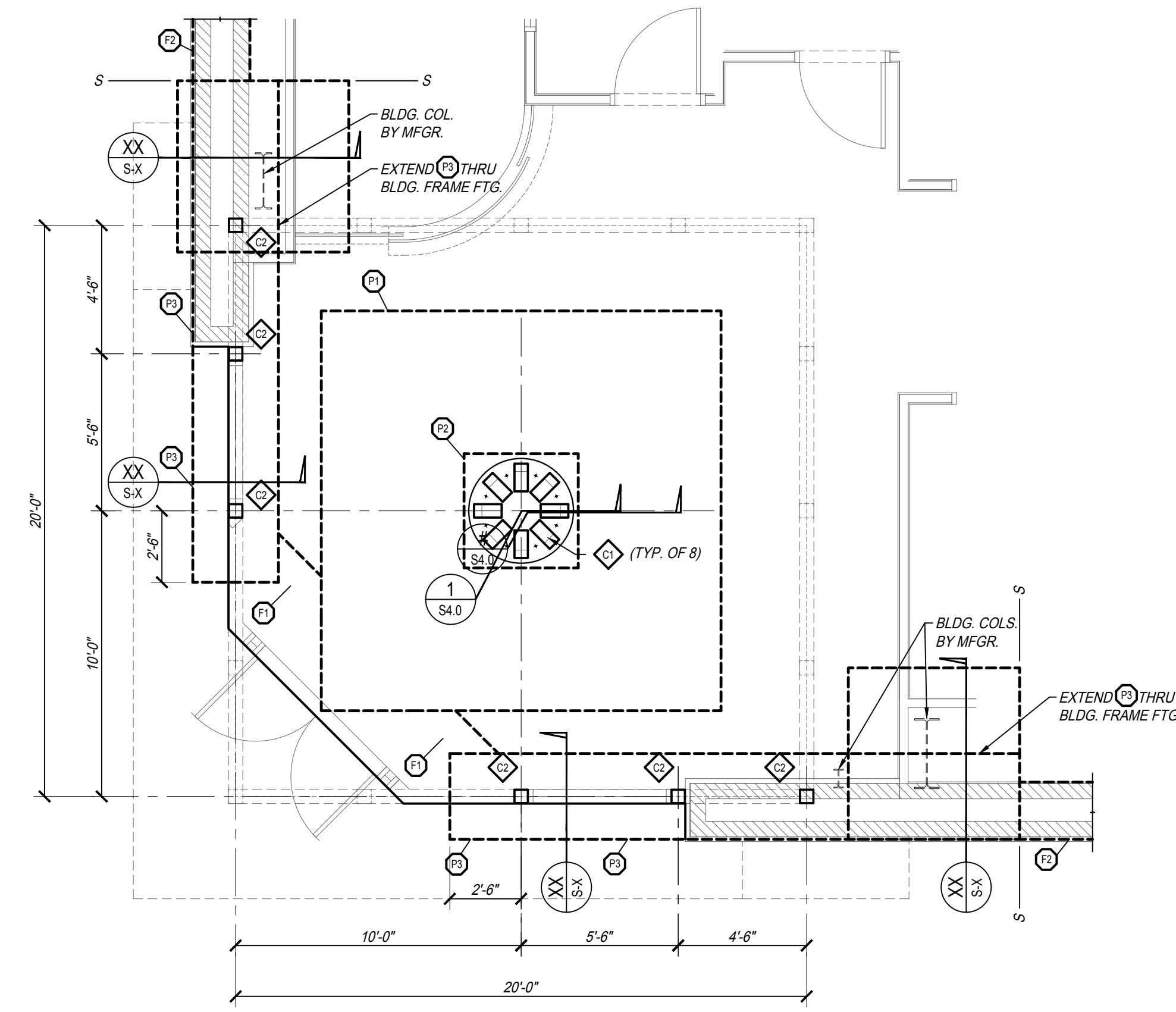
DETAIL
SCALE: 1/2" = 1'-0"
F0622 S4.0



ROOF FRAMING PLAN
(ENTRY TOWER)
SCALE: 1/4" = 1'-0"



LOW FRAMING PLAN
(ENTRY TOWER)
SCALE: 1/4" = 1'-0"

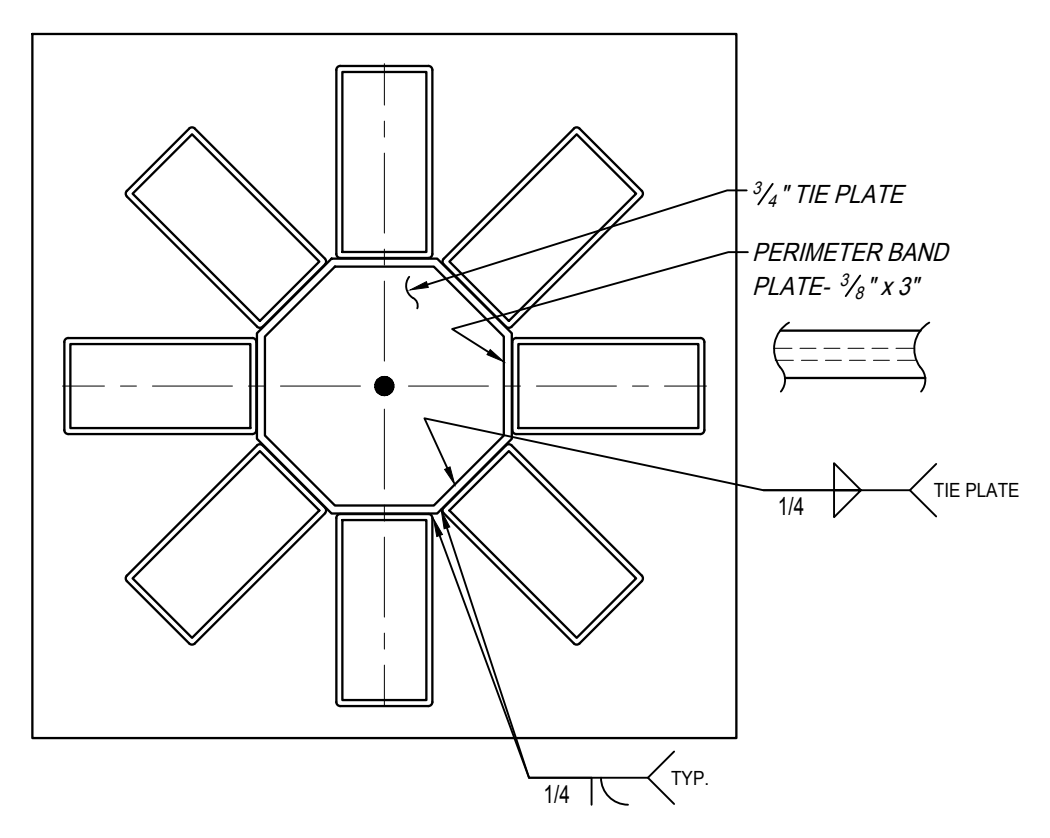


FOUNDATION PLAN
(ENTRY TOWER)
SCALE: 1/4" = 1'-0"

FOOTING SCHEDULE			
TYPE	SIZE	REINFORCEMENT	NOTES
⊙	1'-0" WIDE x 1'-6" DEEP	2-#5 CONTIN. TOP & BOT.	
⊙	2'-4" WIDE x 1'-6" DEEP	3-#5 CONTIN. TOP & BOT.	
⊙	1'-6" DEEP	#4 TRS @ 24" c.	
⊙	14'-0" SQUARE x 4'-0" DEEP	#4 @ 12" c. EA WAY- SIDES.	
⊙	4'-0" SQUARE x 1'-6" DEEP	4-#5 EA WAY BOT.	COLUMN BASE SETTING PAD
⊙	1'-0" WIDE x 4'-0" DEEP x LENGTH PER PLAN	6-#5 TOP & BOT. w/ #4 TRS @ 18" c.	

MEMBER SCHEDULE	
TYPE	SIZE
M1	HSS 12x6x1/2
M2	HSS 6x6x1/4

COLUMN SCHEDULE			
TYPE	SIZE	BASE P. & ANCHORS	REF.
⊙	HSS 12x6x1/2	1 1/2" w 8 - 1" A BOLTS	1/S4.0
⊙	HSS 6x6x1/4		



DETAIL
SCALE: 1" = 1'-0"
F0602 S4.0

REGISTERED ARCHITECT
Noel Roger Davidson, A.I.A., Architect
California Licensed Architect No. C-27818
Rtn. 10-31-2019
Fresno County Department of Public Works
Capital Projects
2220 Tulare Street, Eighth Floor
Fresno, California 93721
Telephone: (559) 600-4477
E-mail: ndavidson@co.fresno.ca.us

Project:
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APN: 310-133-04, -05, and -06
ISSUE DATE: 06.01.2020
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FILE NAME: S4.0

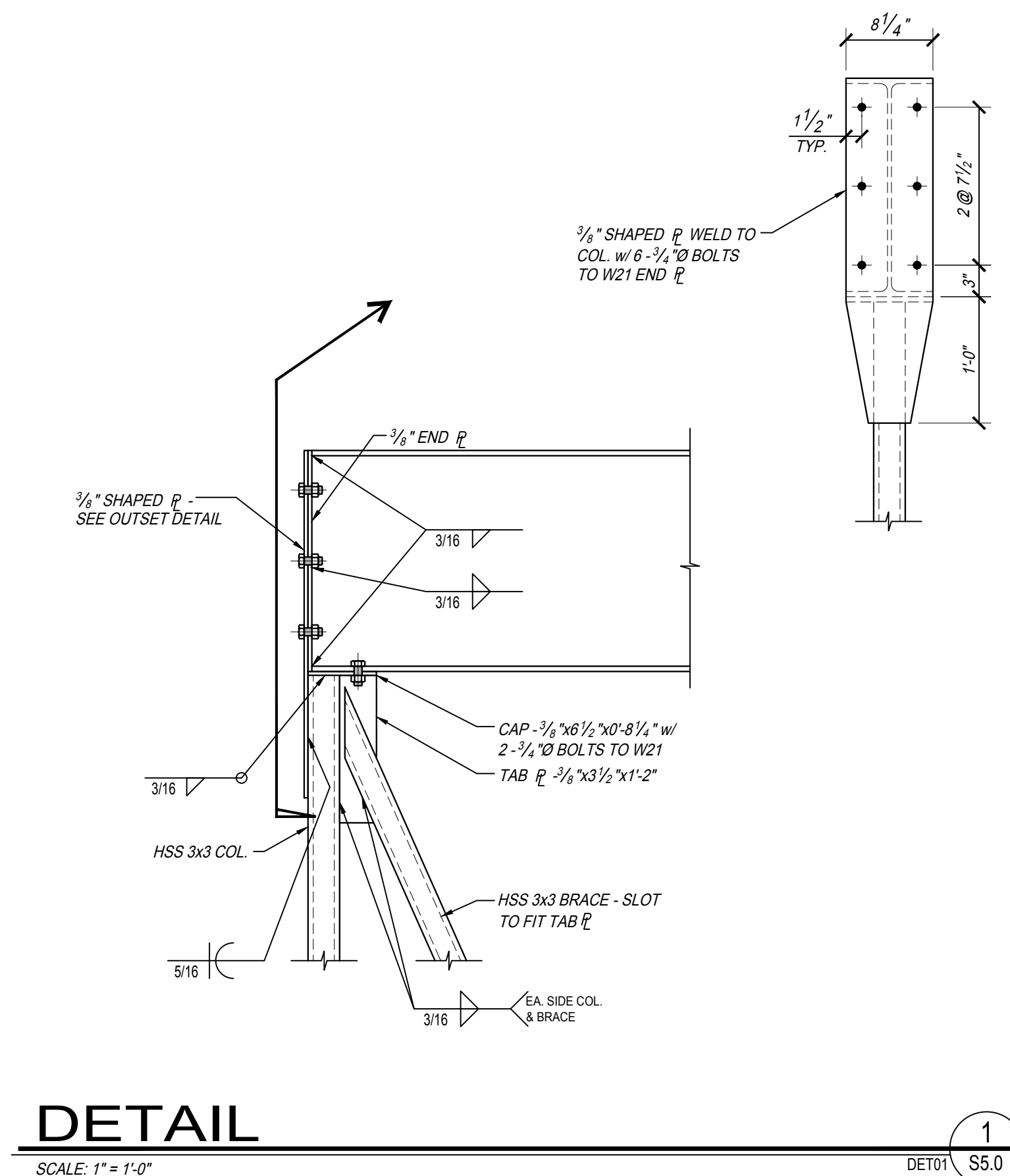
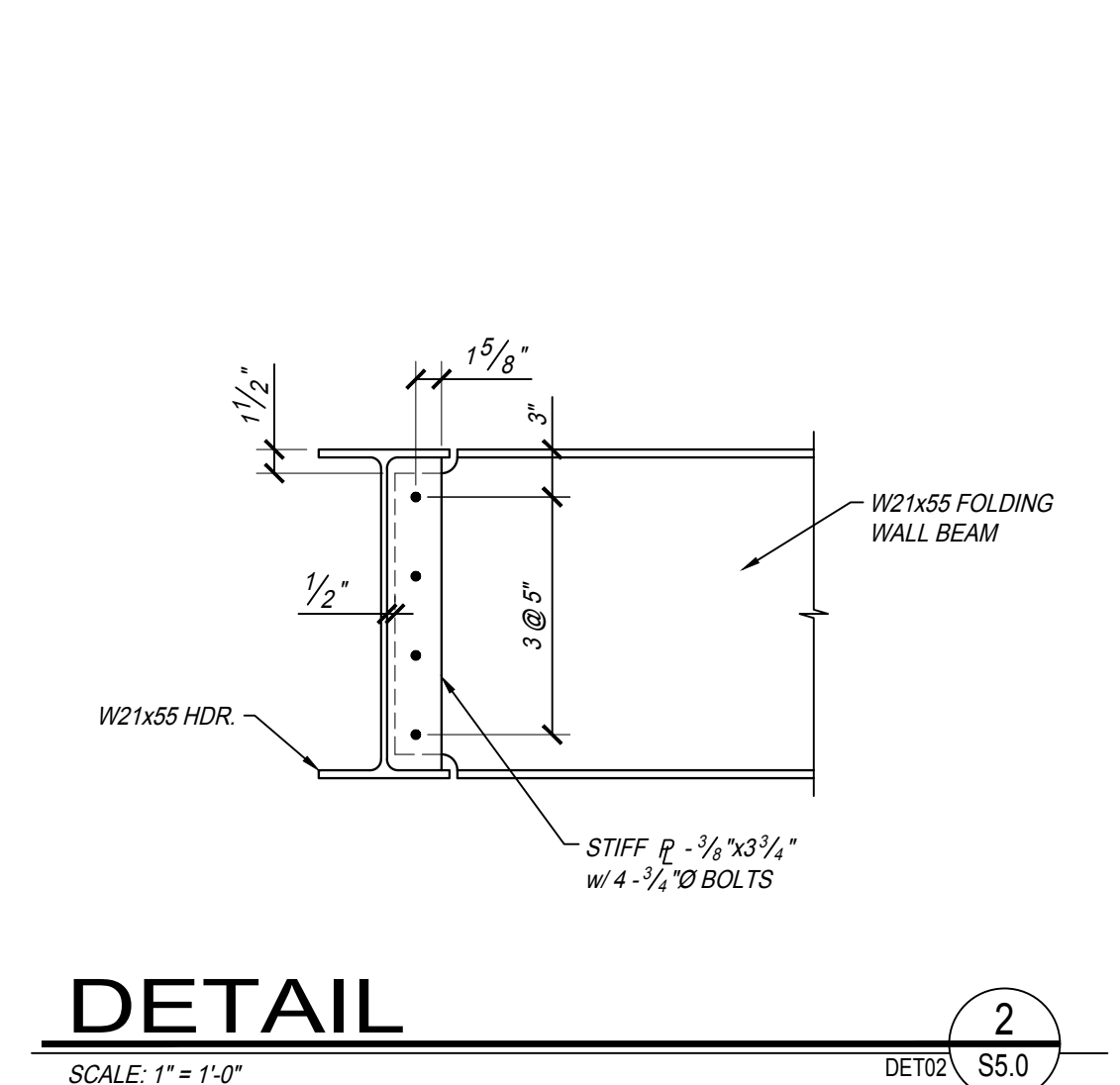
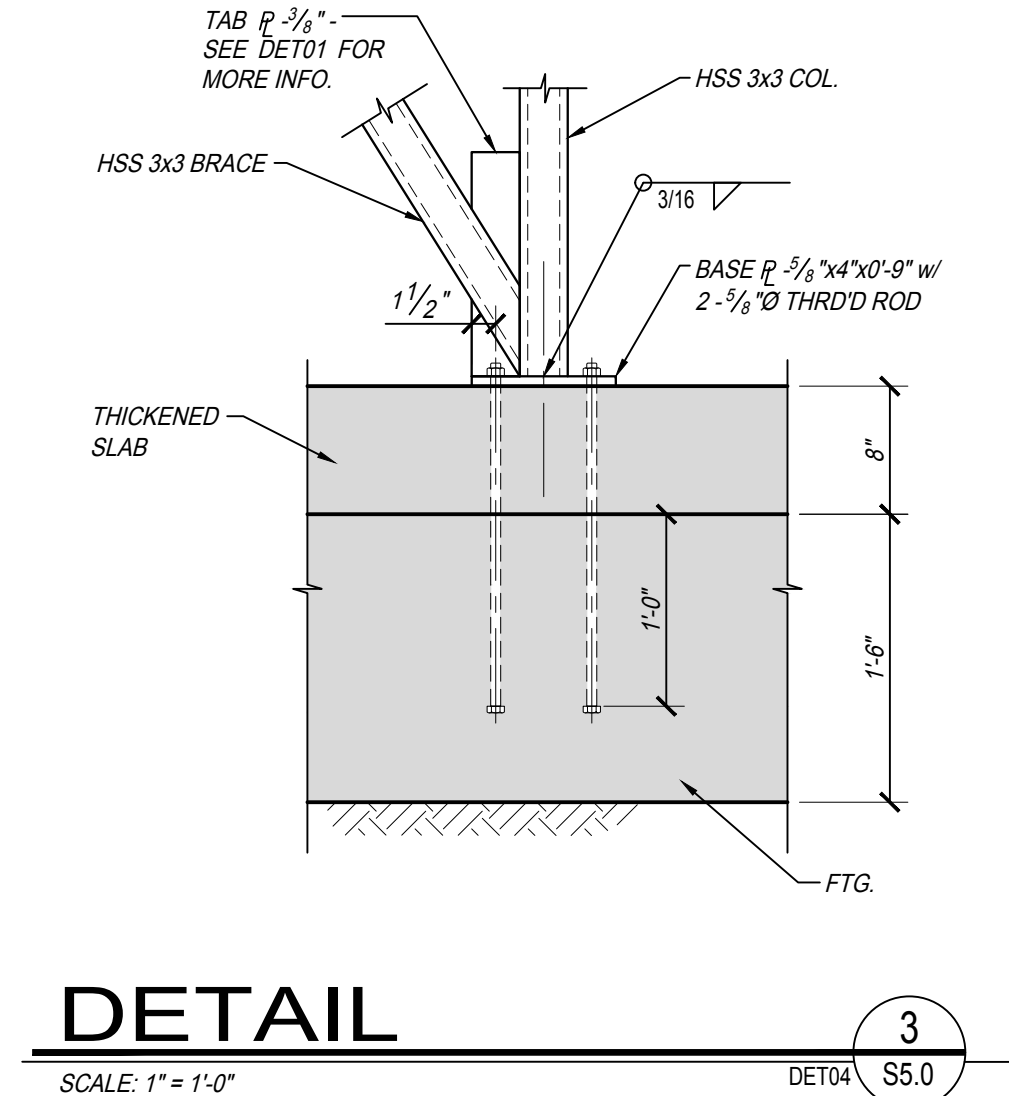
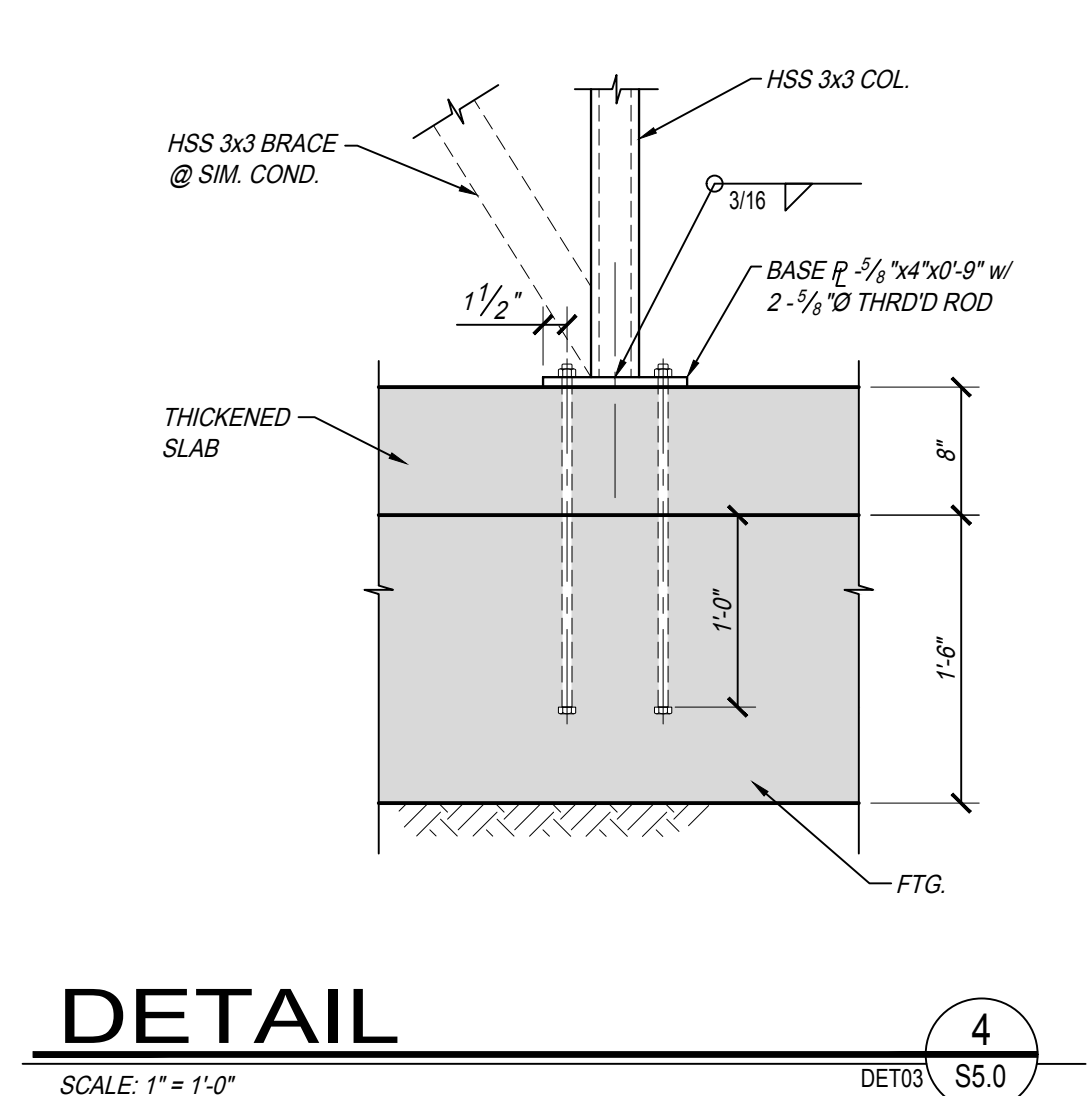
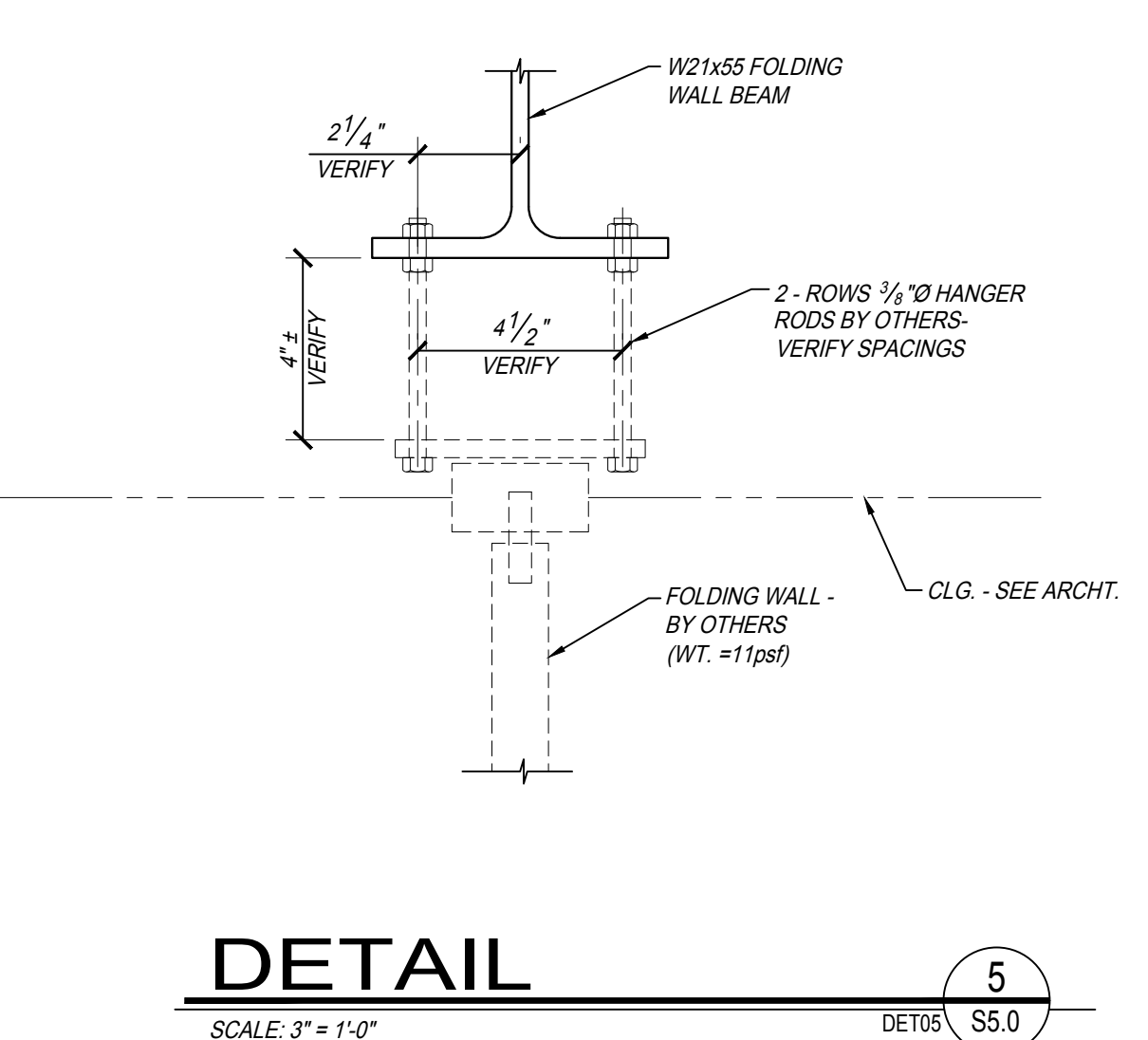
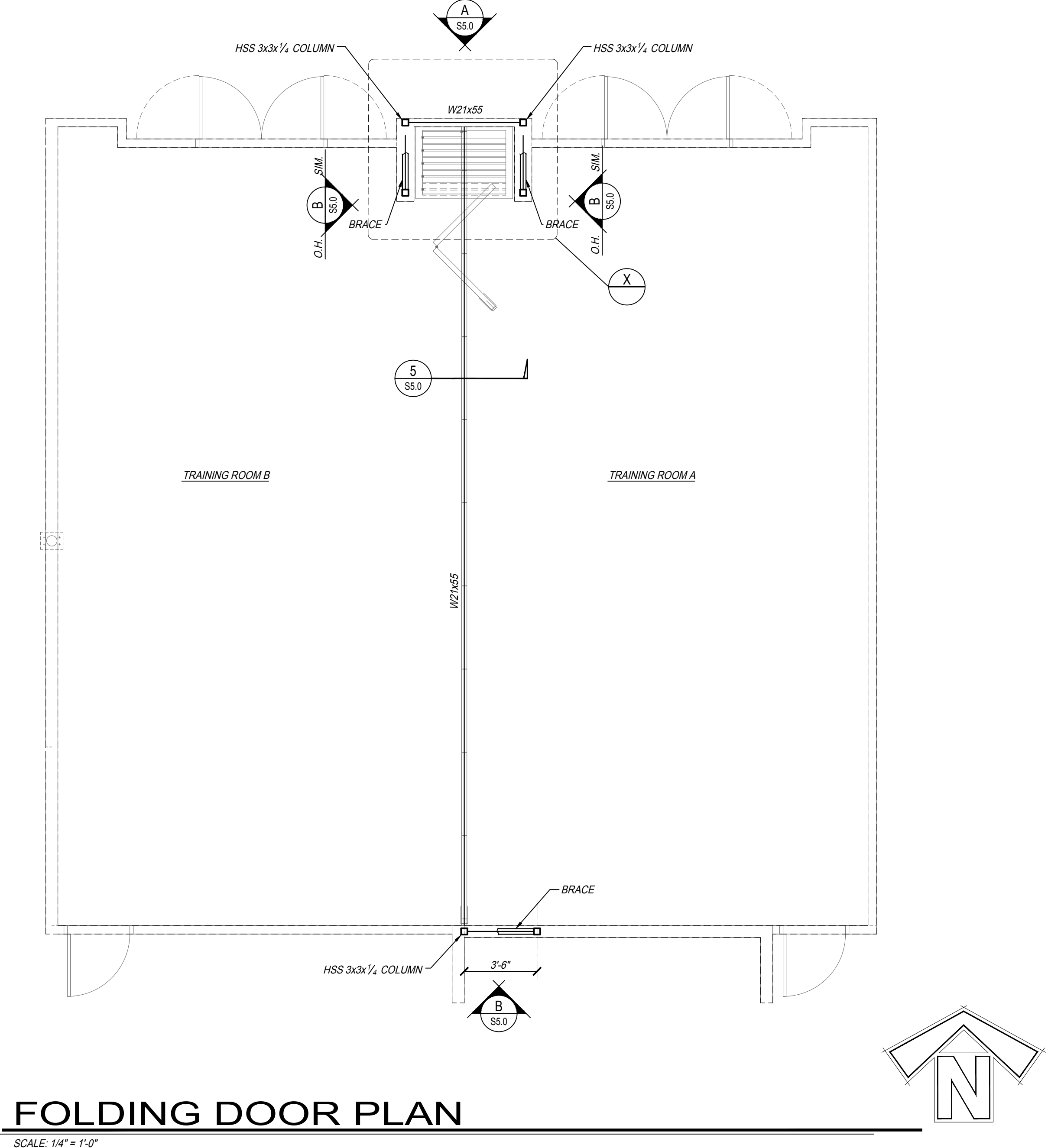
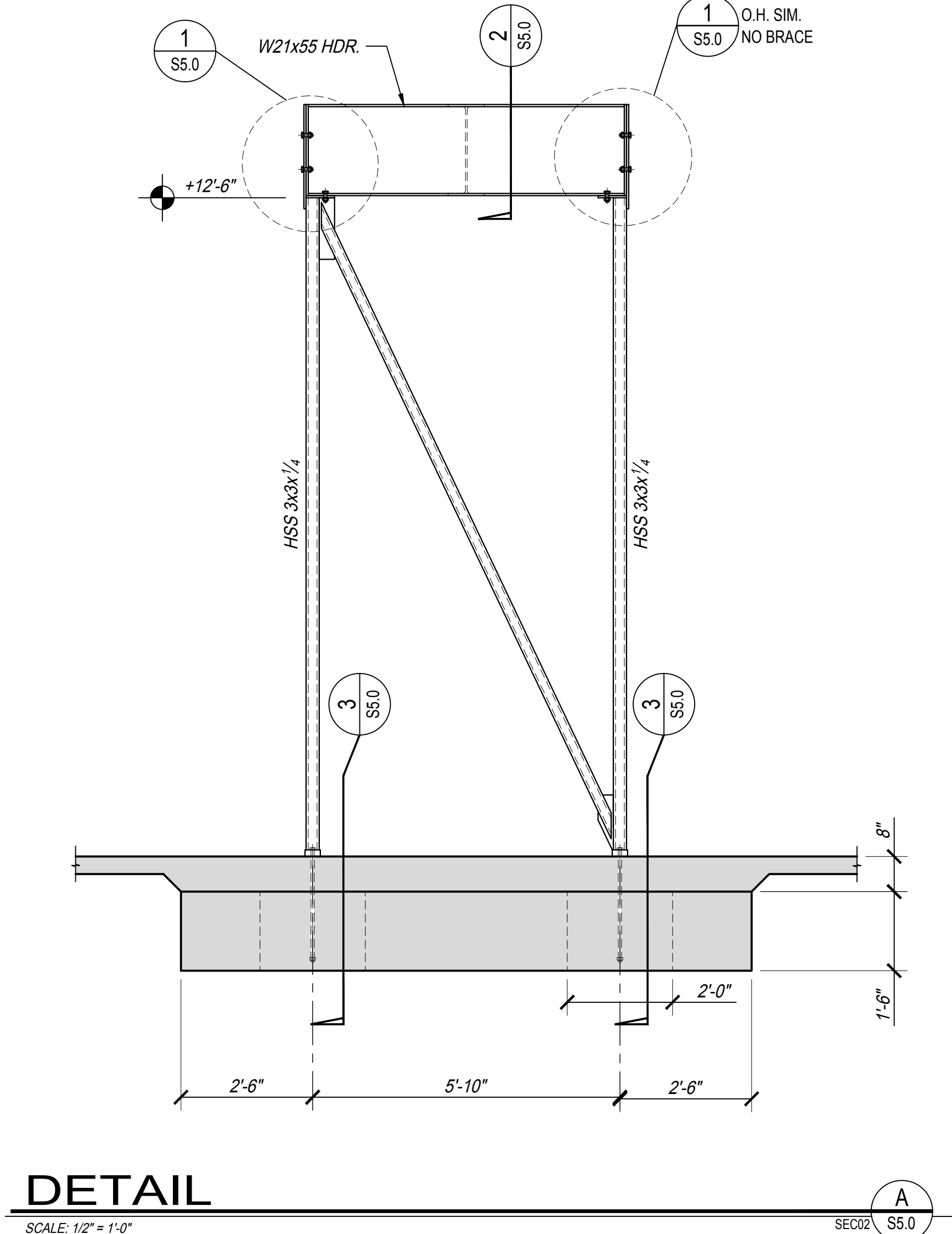
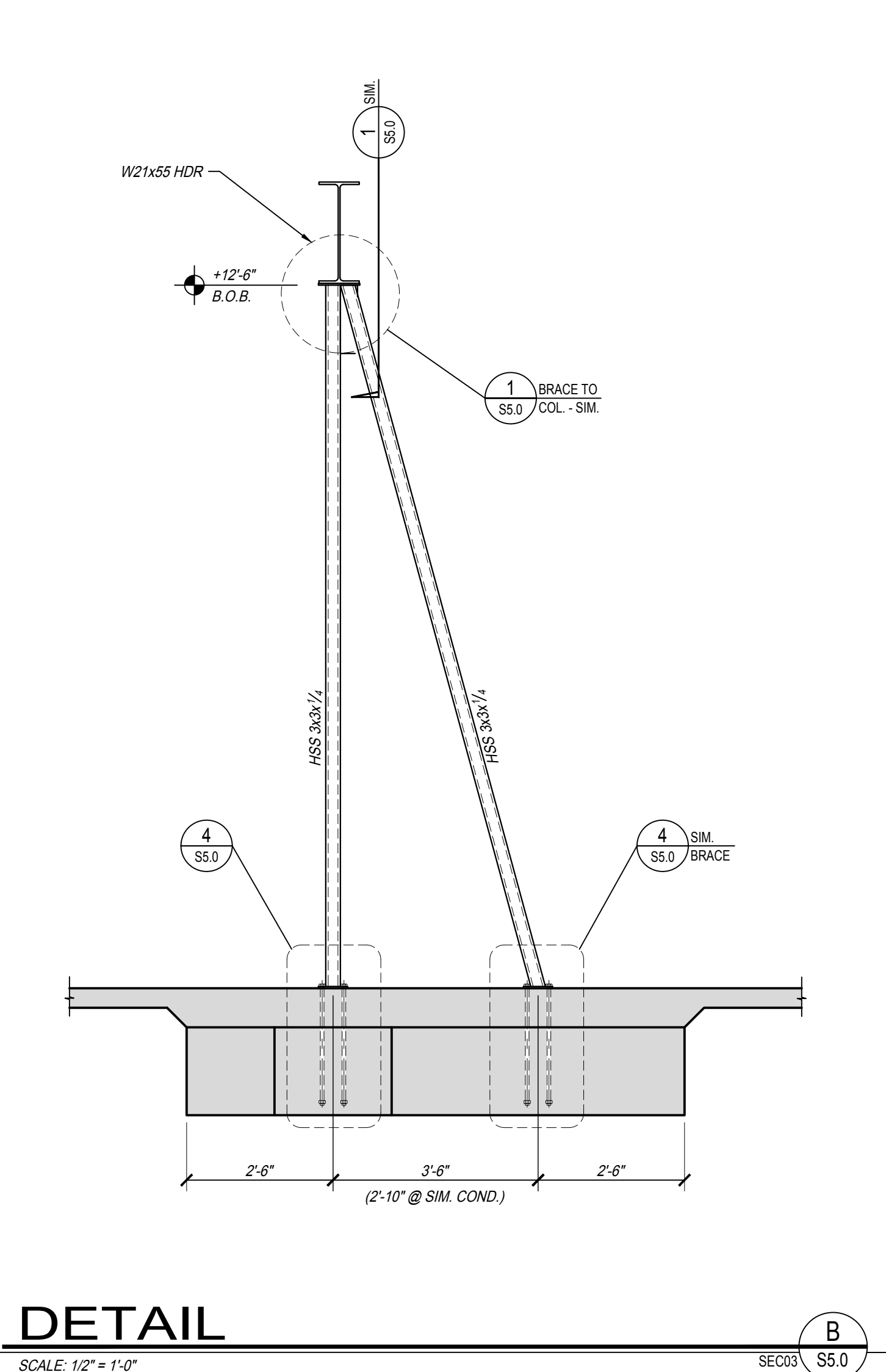
Sheet Content:
ENTRY TOWER PLANS & DETAILS

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Capital Projects
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Fresno, California 93721

Sheet No.
S4.0

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THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNLESS IT BEARS THE STAMPS AND SIGNATURES OF THE ARCHITECT AND ENGINEER AND THE APPROVAL STAMP OF THE JURISDICTIONAL BUILDING DEPARTMENT.



PARRISH HANSEN
STRUCTURAL ENGINEERS
A Division of Provost & Pritchard Consulting Group
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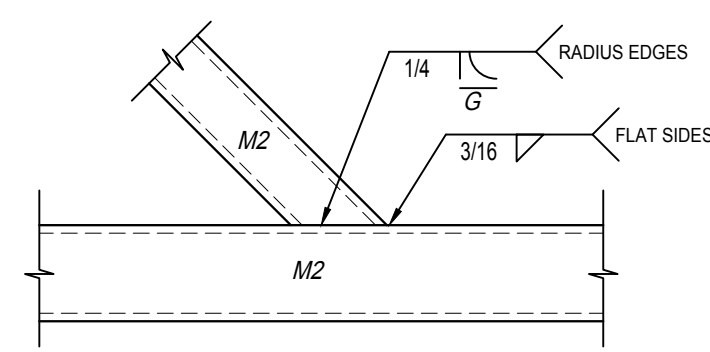
ARCHITECT:
Noel Roger Davidson, A.I.A., Architect
California Licensed Architect No. C-27818
Rm. 10-31-2019
Fresno County Department of Public Works
Capital Projects
2201 Tulare Street, Eighth Floor
Fresno, California 93721
Telephone: (559) 600-4477
E-mail: ndavidson@co.fresno.ca.us

Project:
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
APN: 310-133-04_05, and -06
ISSUE DATE: 06.01.2020
PROJECT NO.: 180293 / 19003
FILE NAME: S5.0

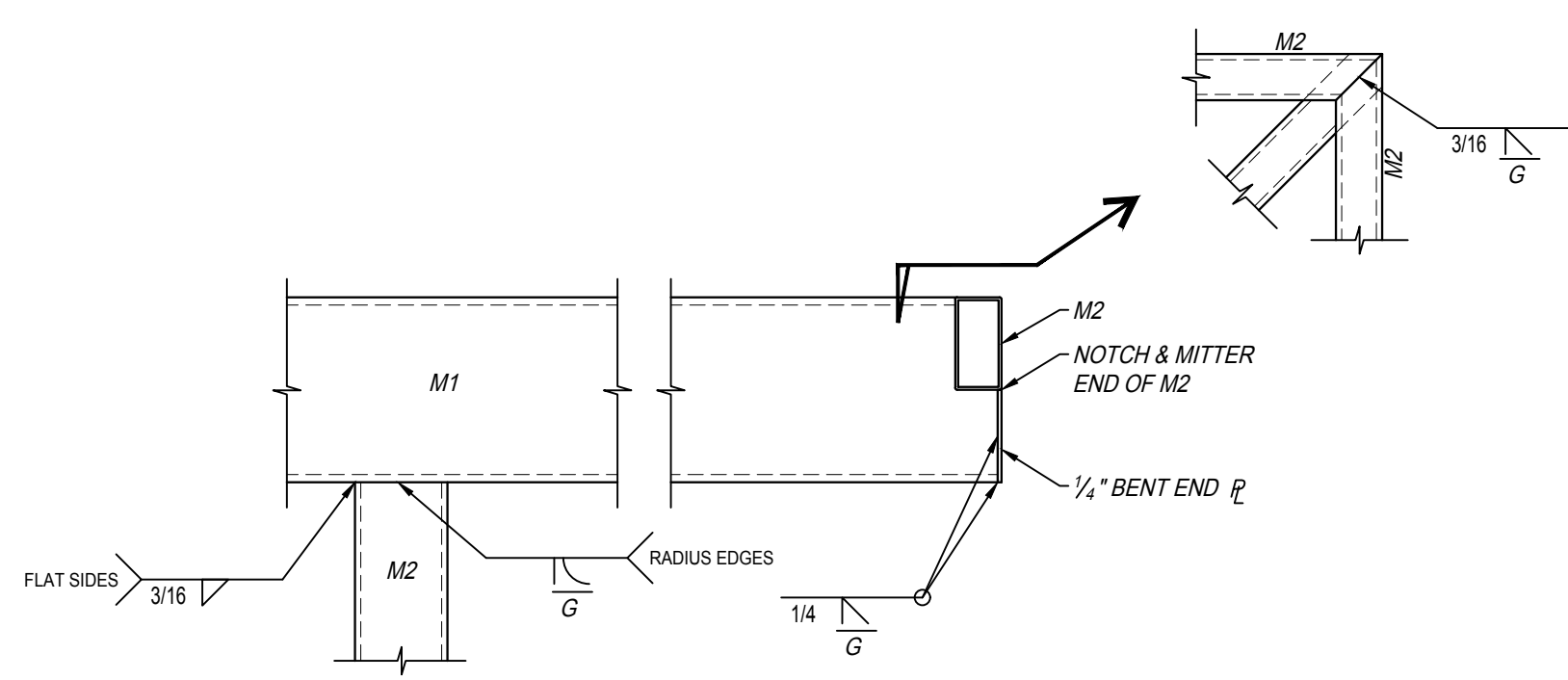
Sheet Content:
FOLDING WALL PLAN & DETAILS

Fresno County Department of Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

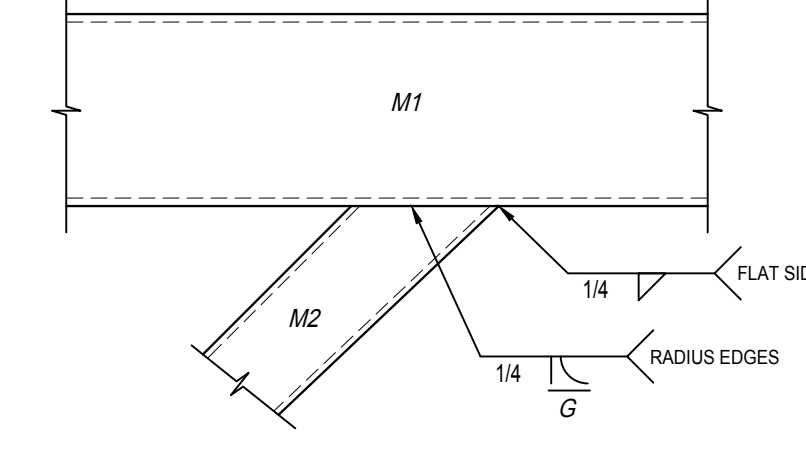
Sheet No.
S5.0



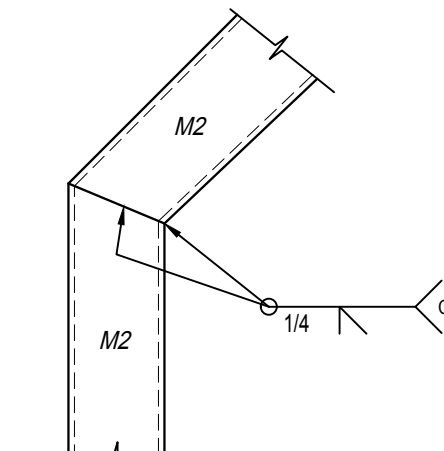
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DET05 S6.0



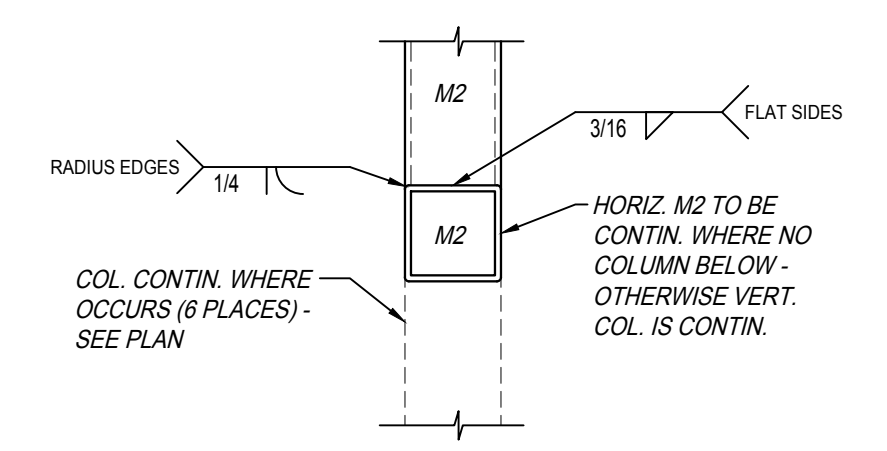
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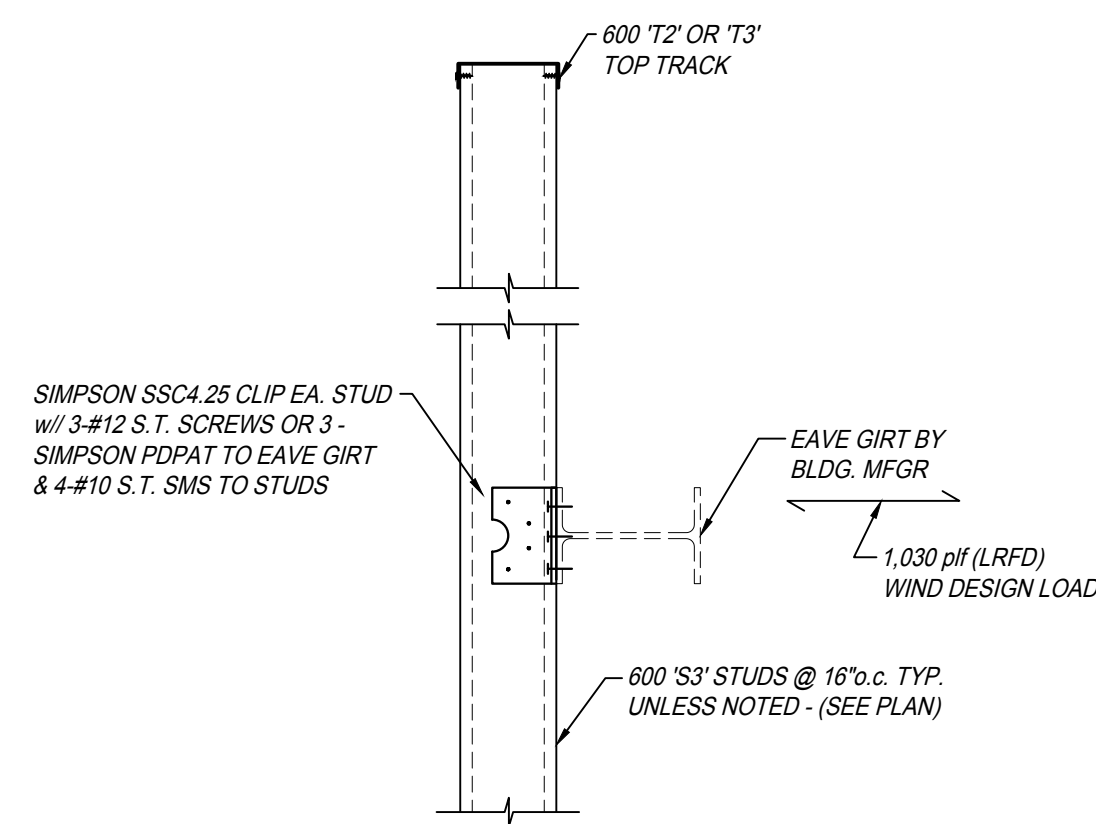
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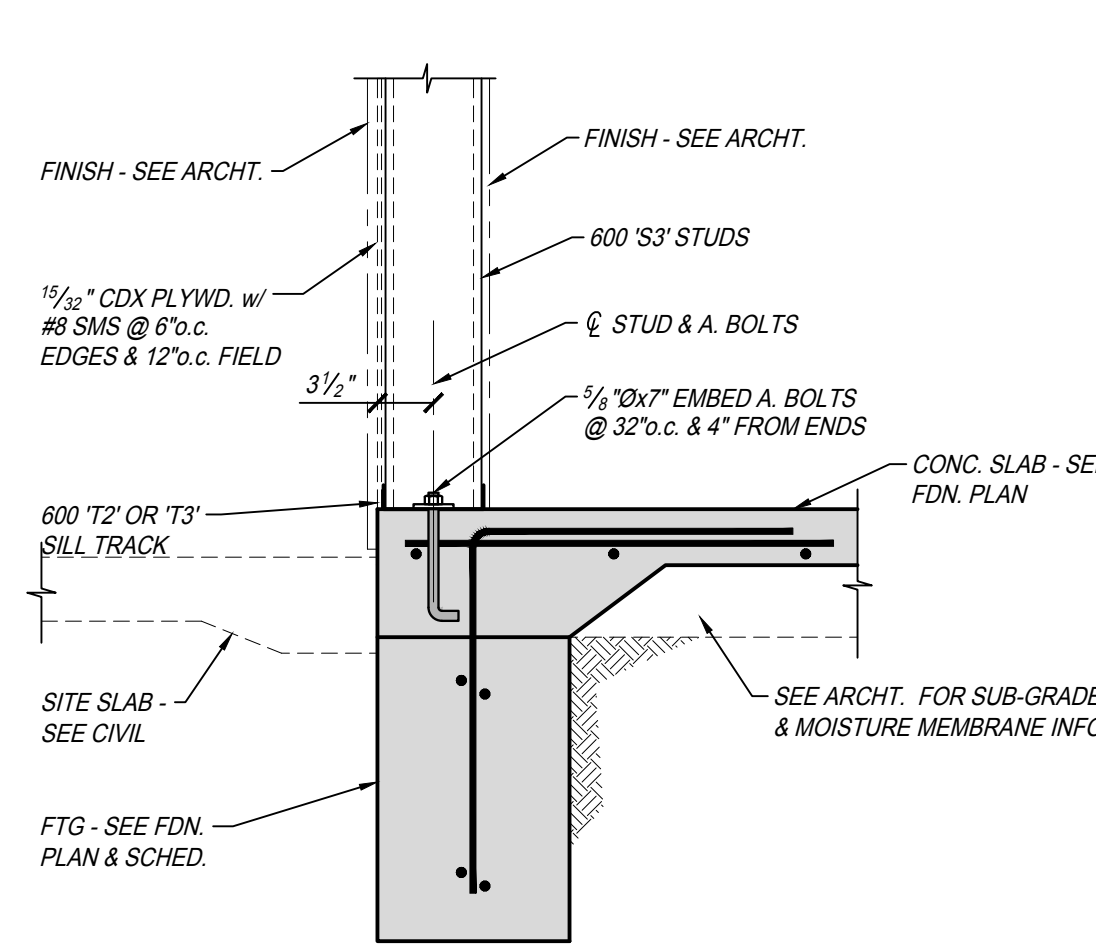
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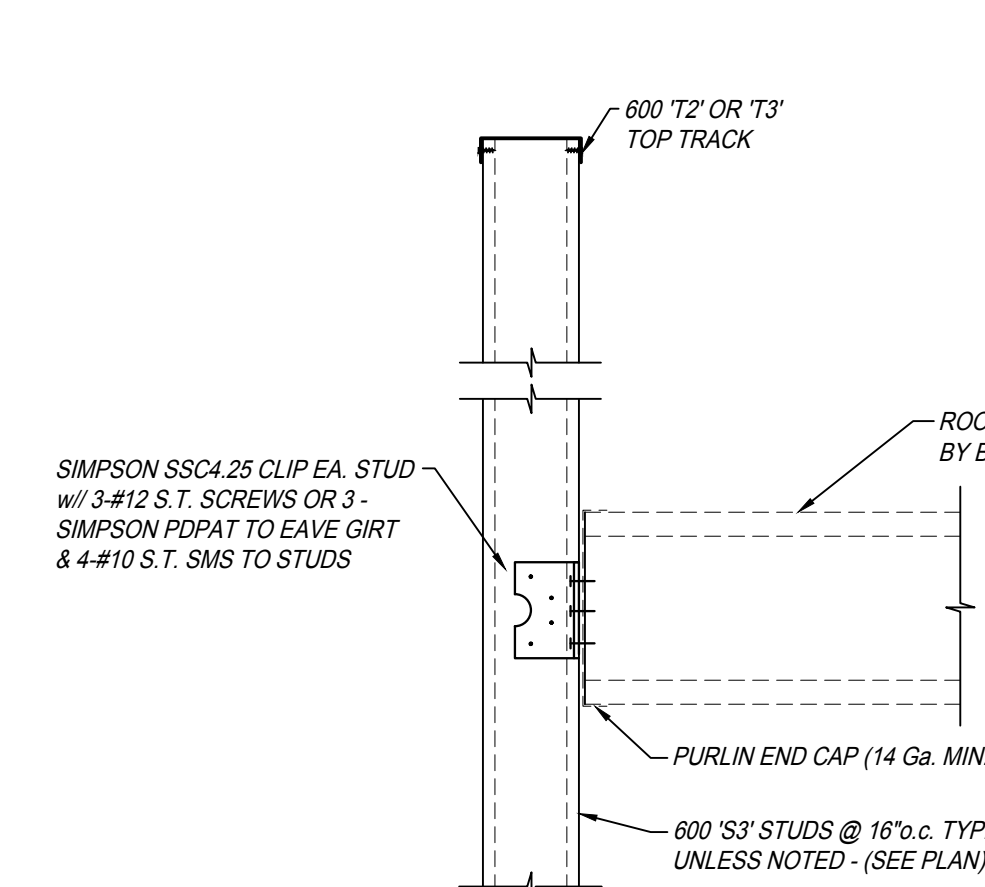
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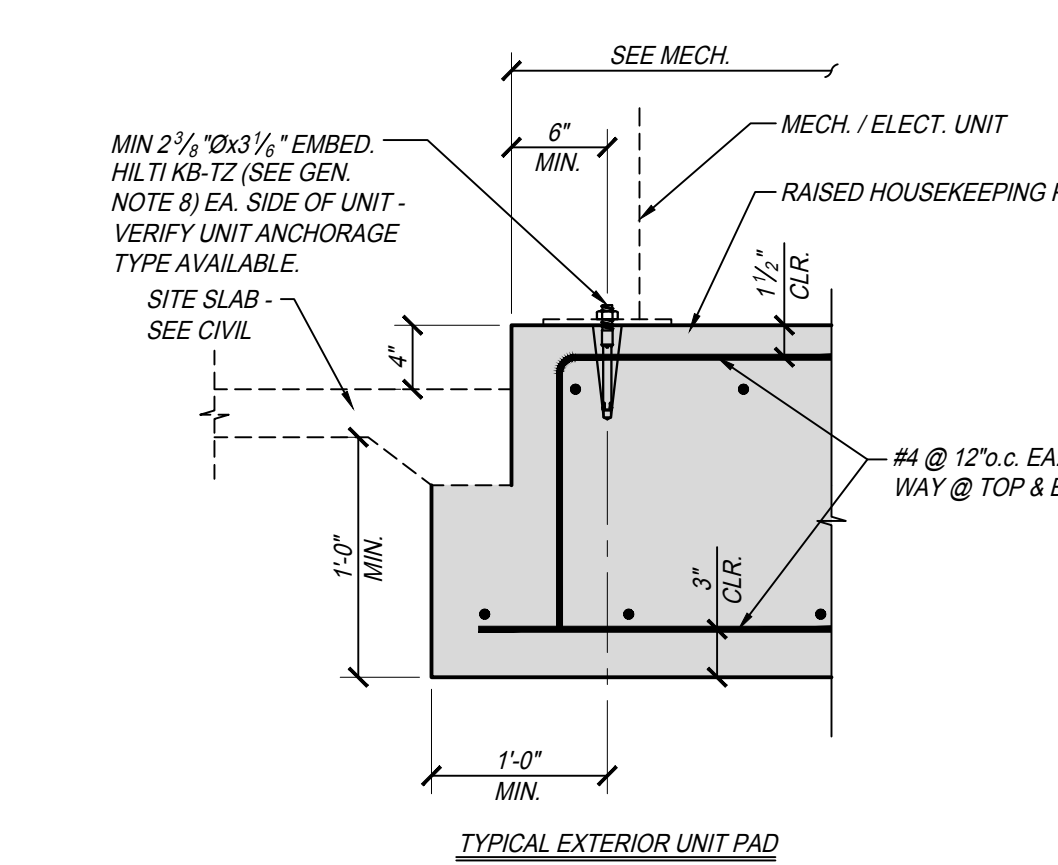
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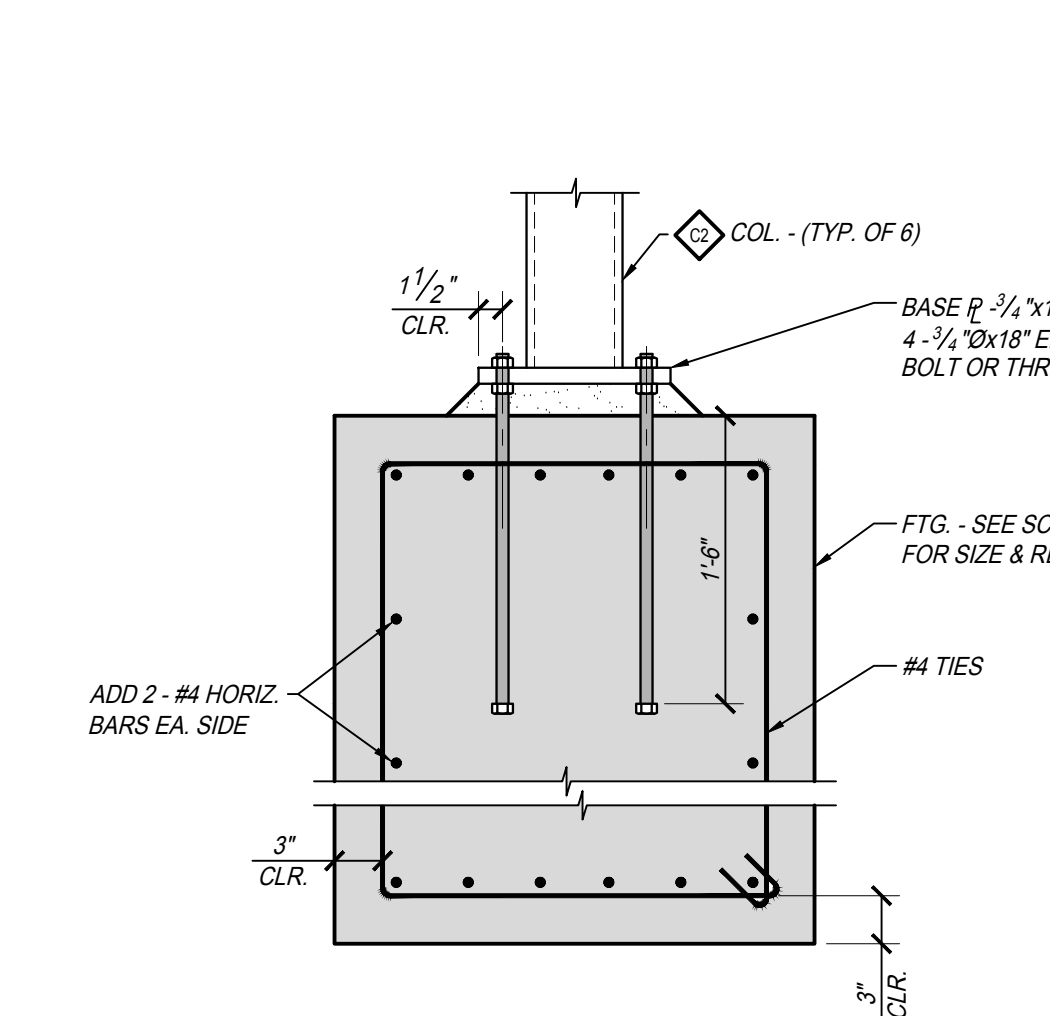
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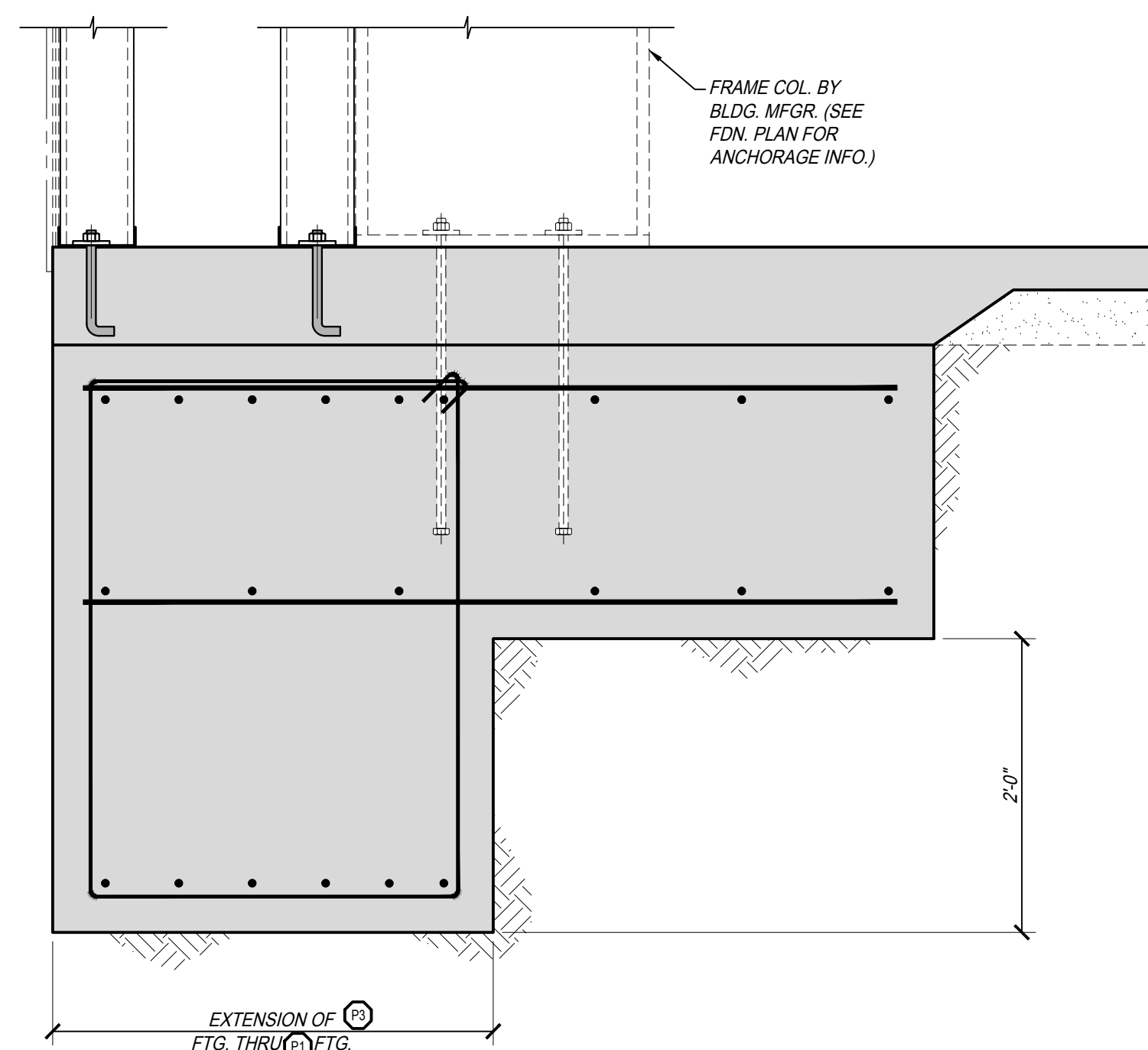
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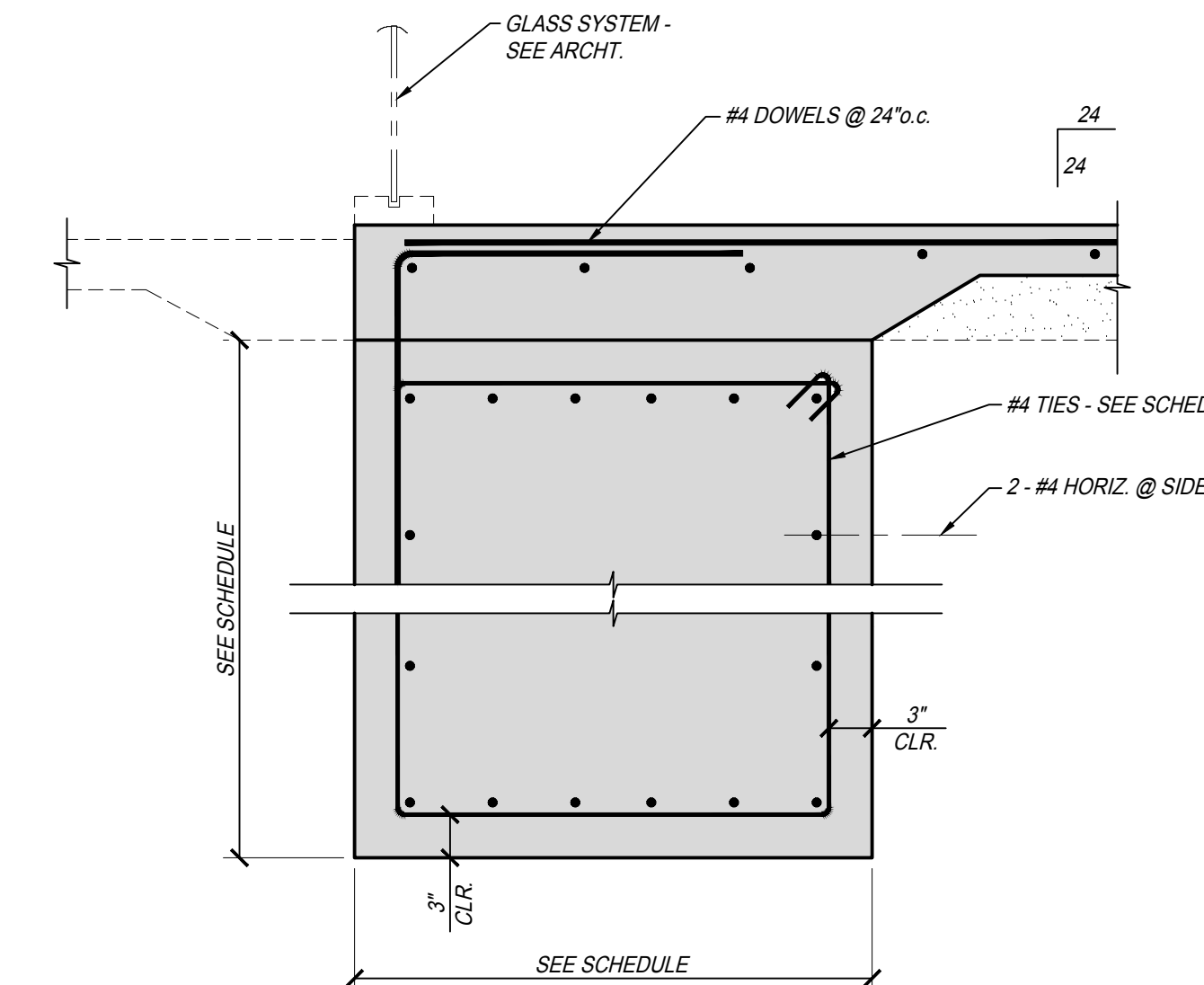
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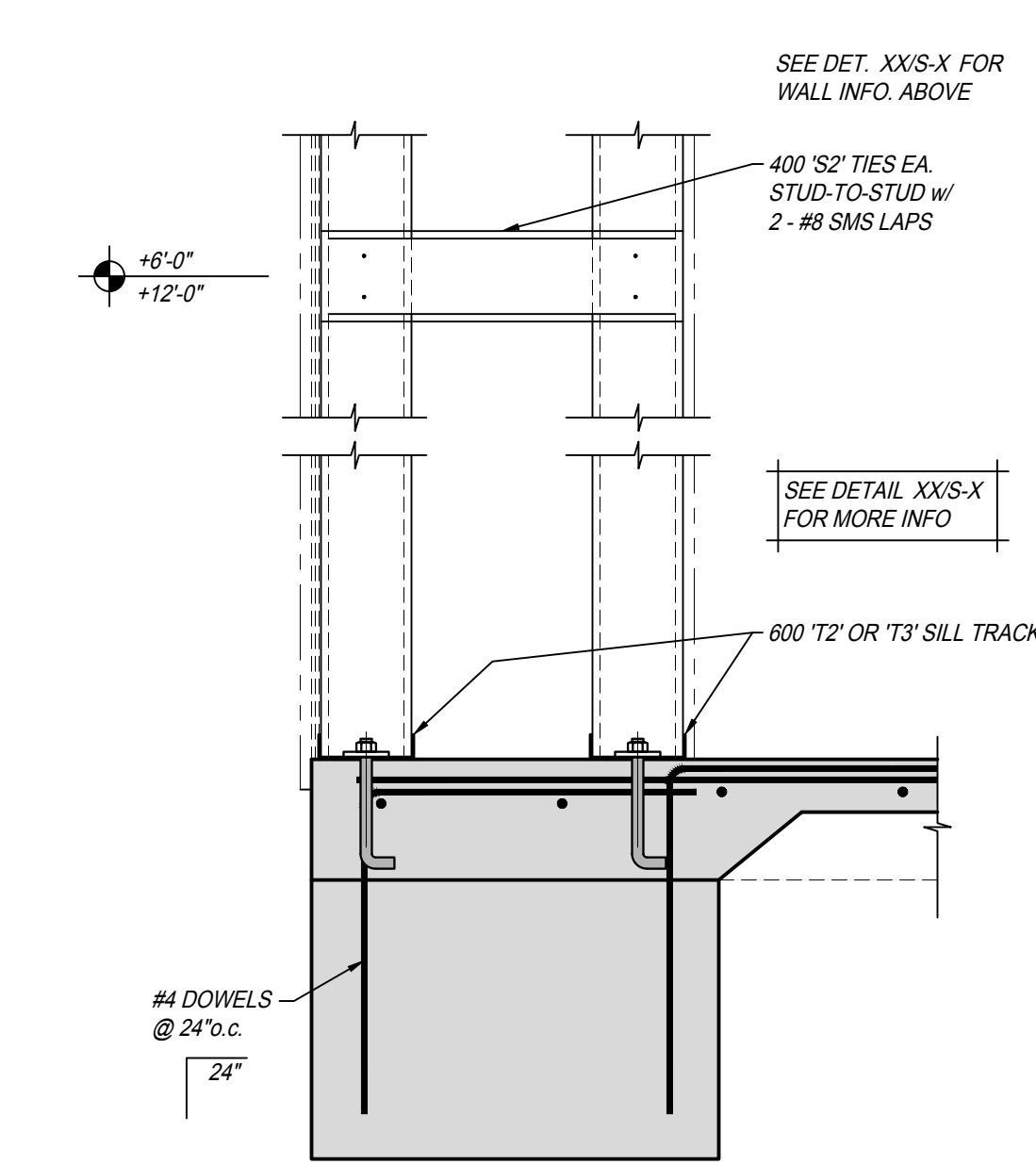
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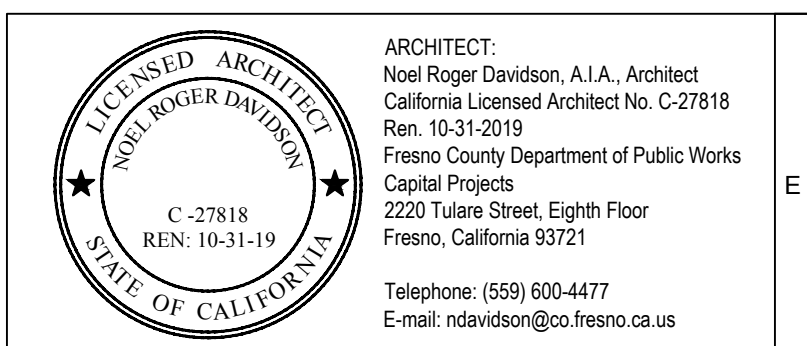
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DET13 S6.0



DETAIL
SCALE: 1" = 1'-0"
DET12 S6.0



DETAIL
SCALE: 1" = 1'-0"
DET11 S6.0



Project:
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 06.01.2020
PROJECT NO.: 180293 / 19003
FILE NAME: S6.0

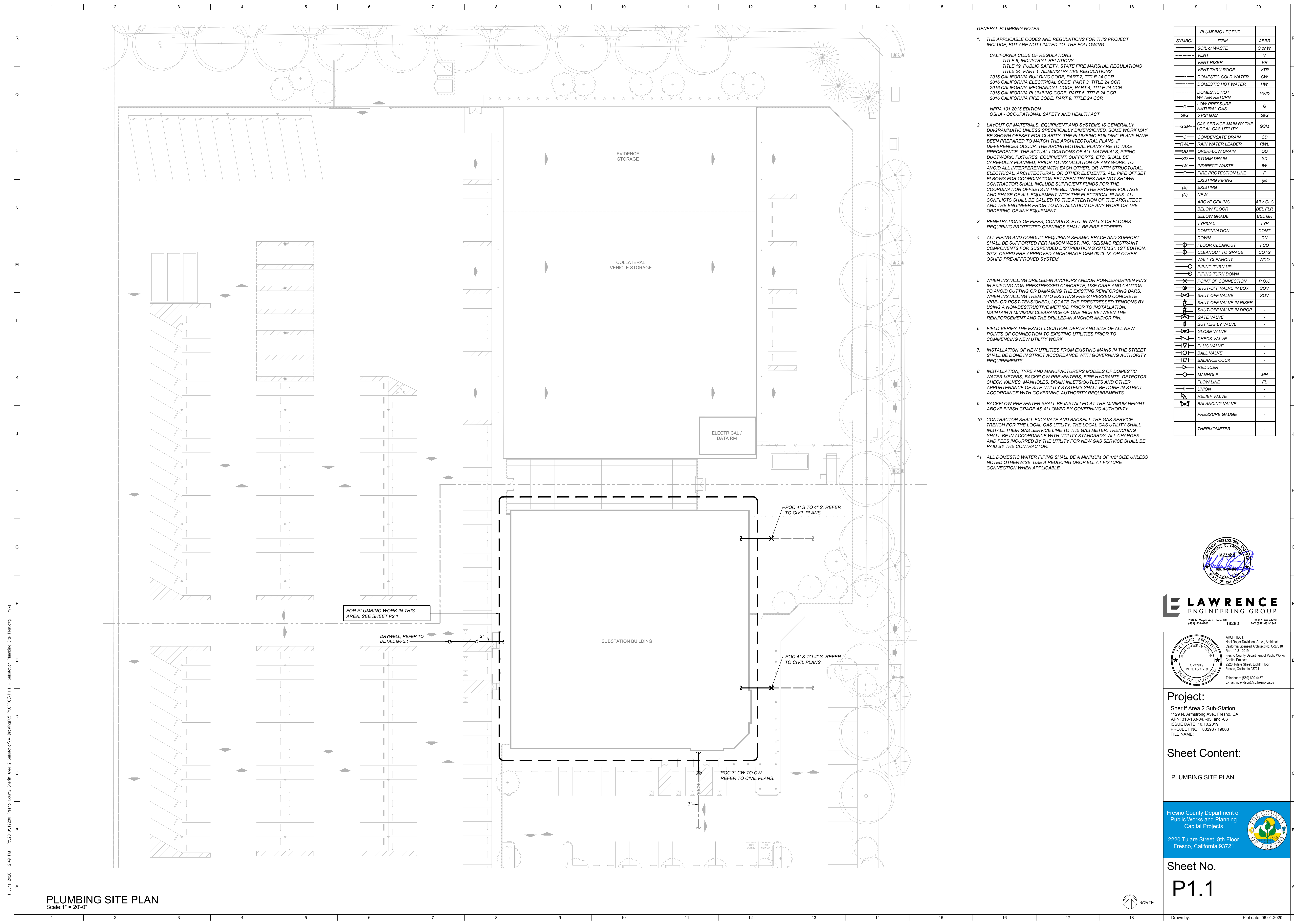
Sheet Content:
DETAILS

Fresno County Department of Public Works and Planning Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
S6.0



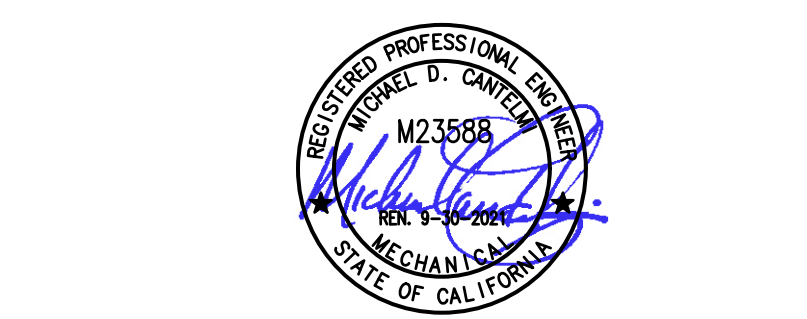
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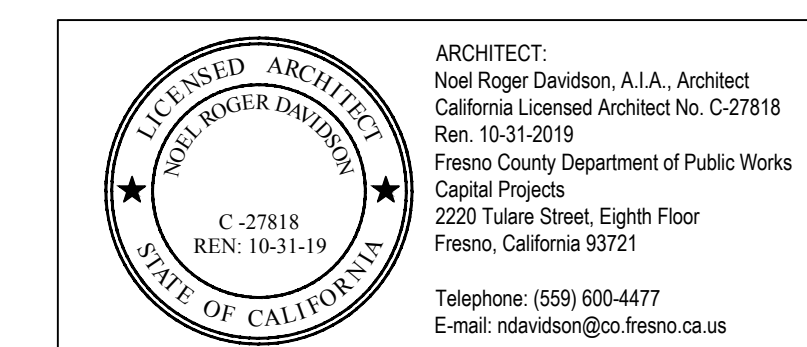
GENERAL PLUMBING NOTES:

- THE APPLICABLE CODES AND REGULATIONS FOR THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
 CALIFORNIA CODE OF REGULATIONS
 TITLE 8, INDUSTRIAL RELATIONS
 TITLE 19, PUBLIC SAFETY, STATE FIRE MARSHAL, REGULATIONS
 TITLE 24, PART 1, ADMINISTRATIVE REGULATIONS
 2016 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 CCR
 2016 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR
 2016 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 CCR
 2016 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 CCR
 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR
 NFPA 101 2015 EDITION
 OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
- LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE PLUMBING BUILDING PLANS HAVE BEEN PREPARED TO MATCH THE ARCHITECTURAL PLANS. IF DIFFERENCES OCCUR, THE ARCHITECTURAL PLANS ARE TO TAKE PRECEDENCE. THE ACTUAL LOCATIONS OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK, TO AVOID ALL INTERFERENCE WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL, OR OTHER ELEMENTS. ALL PIPE OFFSET ELBOWS FOR COORDINATION BETWEEN TRADES ARE NOT SHOWN. CONTRACTOR SHALL INCLUDE SUFFICIENT FUNDS FOR THE COORDINATION OFFSETS IN THE BID. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
- PENETRATIONS OF PIPES, CONDUITS, ETC. IN WALLS OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED.
- ALL PIPING AND CONDUIT REQUIRING SEISMIC BRACE AND SUPPORT SHALL BE SUPPORTED PER MASON WEST, INC. "SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED DISTRIBUTION SYSTEMS", 1ST EDITION, 2013; OSHPD PRE-APPROVED ANCHORAGE OPM-0043-13, OR OTHER OSHPD PRE-APPROVED SYSTEM.
- WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER-DRIVEN PINS IN EXISTING NON-PRESTRESSED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRE-STRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
- FIELD VERIFY THE EXACT LOCATION, DEPTH AND SIZE OF ALL NEW POINTS OF CONNECTION TO EXISTING UTILITIES PRIOR TO COMMENCING NEW UTILITY WORK.
- INSTALLATION OF NEW UTILITIES FROM EXISTING MAINS IN THE STREET SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.
- INSTALLATION, TYPE AND MANUFACTURERS MODELS OF DOMESTIC WATER METERS, BACKFLOW PREVENTERS, FIRE HYDRANTS, DETECTOR CHECK VALVES, MANHOLES, DRAIN INLETS/OUTLETS AND OTHER APPURTENANCE OF SITE UTILITY SYSTEMS SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.
- BACKFLOW PREVENTER SHALL BE INSTALLED AT THE MINIMUM HEIGHT ABOVE FINISH GRADE AS ALLOWED BY GOVERNING AUTHORITY.
- CONTRACTOR SHALL EXCAVATE AND BACKFILL THE GAS SERVICE TRENCH FOR THE LOCAL GAS UTILITY. THE LOCAL GAS UTILITY SHALL INSTALL THEIR GAS SERVICE LINE TO THE GAS METER. TRENCHING SHALL BE IN ACCORDANCE WITH UTILITY STANDARDS. ALL CHARGES AND FEES INCURRED BY THE UTILITY FOR NEW GAS SERVICE SHALL BE PAID BY THE CONTRACTOR.
- ALL DOMESTIC WATER PIPING SHALL BE A MINIMUM OF 1/2" SIZE UNLESS NOTED OTHERWISE. USE A REDUCING DROP ELL AT FIXTURE CONNECTION WHEN APPLICABLE.

PLUMBING LEGEND		
SYMBOL	ITEM	ABBR
---	SOIL or WASTE	S or W
---	VENT	V
---	VENT RISER	VR
---	VENT THRU ROOF	VTR
---	DOMESTIC COLD WATER	CW
---	DOMESTIC HOT WATER	HW
---	DOMESTIC HOT WATER RETURN	HWR
---	LOW PRESSURE NATURAL GAS	G
---	5 PSI GAS	5PG
---	GAS SERVICE MAIN BY THE LOCAL GAS UTILITY	GSM
---	CONDENSATE DRAIN	CD
---	RAIN WATER LEADER	RWL
---	OVERFLOW DRAIN	OD
---	STORM DRAIN	SD
---	INDIRECT WASTE	IW
---	FIRE PROTECTION LINE	F
---	EXISTING PIPING	(E)
---	EXISTING CEILING	(E)
---	NEW	(N)
---	ABOVE CEILING	ABV CLG
---	BELOW FLOOR	BEL FLR
---	BELOW GRADE	BEL GR
---	TYPICAL	TYP
---	CONTINUATION	CONT
---	DOWN	DN
---	FLOOR CLEANOUT	FCO
---	CLEANOUT TO GRADE	COTG
---	WALL CLEANOUT	WCO
---	PIPING TURN UP	PTU
---	PIPING TURN DOWN	PTD
---	POINT OF CONNECTION	P.O.C
---	SHUT-OFF VALVE IN BOX	SOV
---	SHUT-OFF VALVE	SOV
---	SHUT-OFF VALVE IN RISER	SOV
---	SHUT-OFF VALVE IN DROP	SOV
---	GATE VALVE	GV
---	BUTTERFLY VALVE	BFV
---	GLOBE VALVE	GV
---	CHECK VALVE	CV
---	PLUG VALVE	PLV
---	BALL VALVE	BV
---	BALANCE COCK	BC
---	REDUCER	R
---	MANHOLE	MH
---	FLOW LINE	FL
---	UNION	U
---	RELIEF VALVE	RV
---	BALANCING VALVE	BV
---	PRESSURE GAUGE	PG
---	THERMOMETER	T



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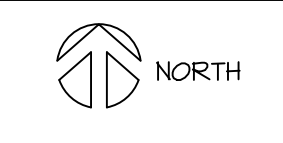


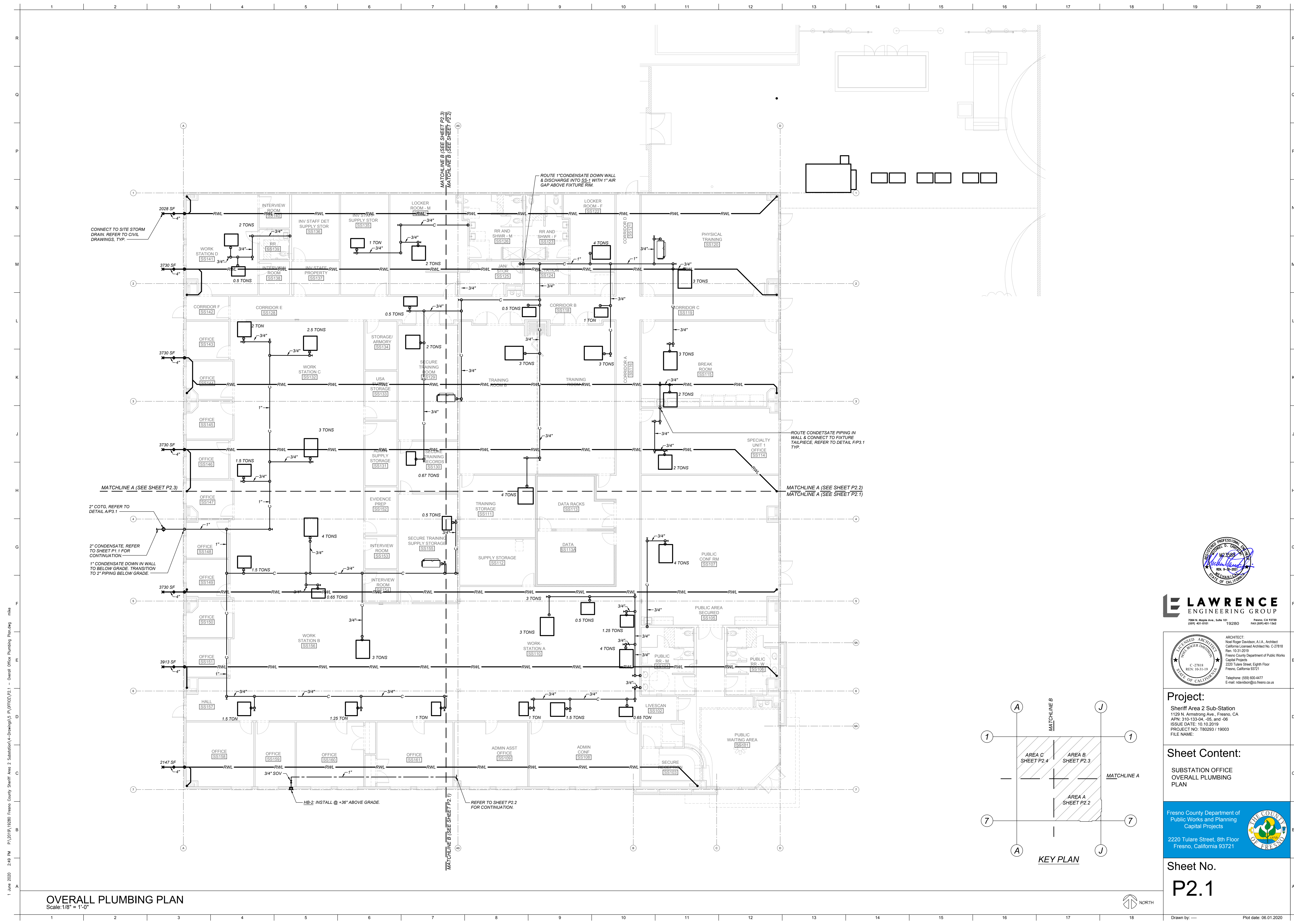
Project:
 Sheriff Area 2 Sub-Station
 1120 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04-.05, and -.06
 ISSUE DATE: 10.10.2019
 PROJECT NO: T80293 / 19003
 FILE NAME:

Sheet Content:
 PLUMBING SITE PLAN

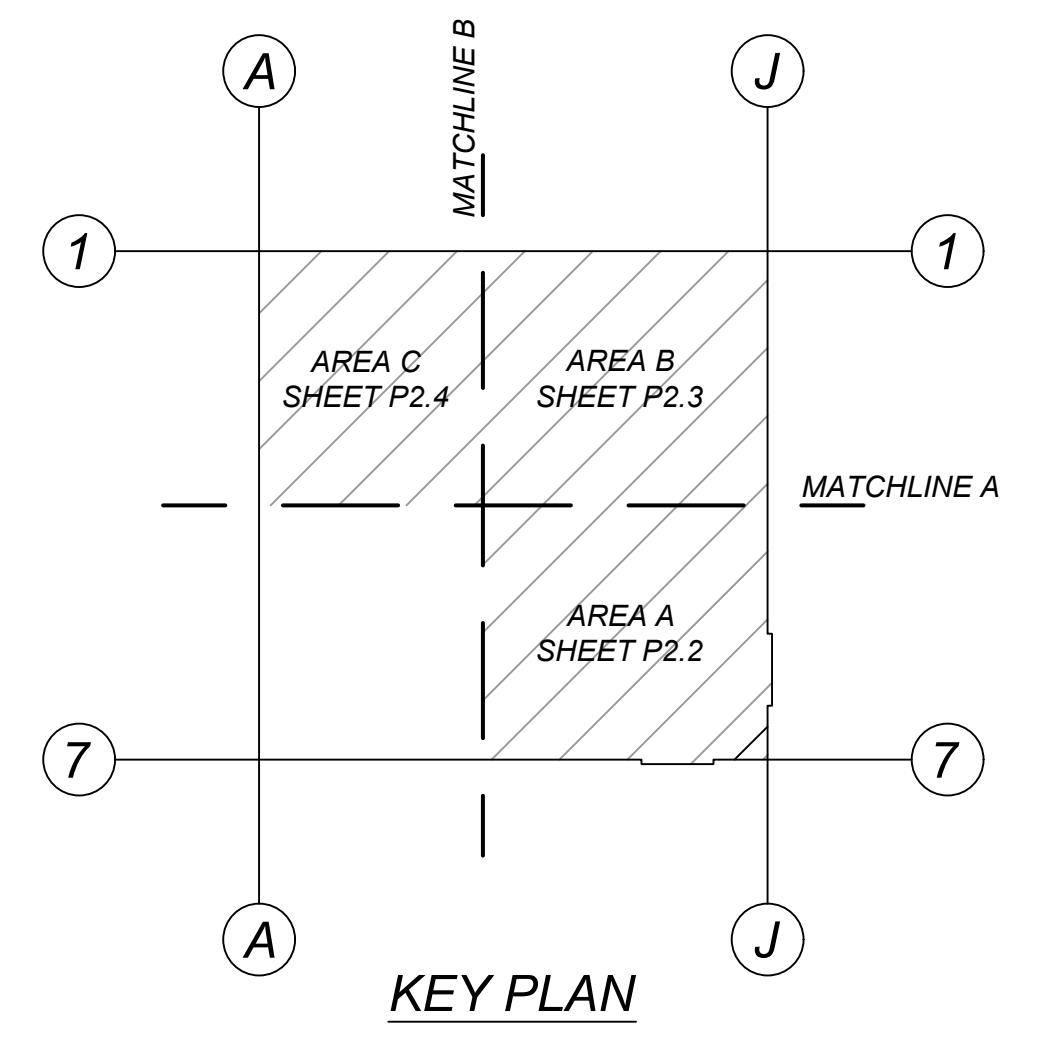
Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
P1.1





OVERALL PLUMBING PLAN
Scale: 1/8" = 1'-0"



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ARCHITECT:
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Ren. 10-31-2019
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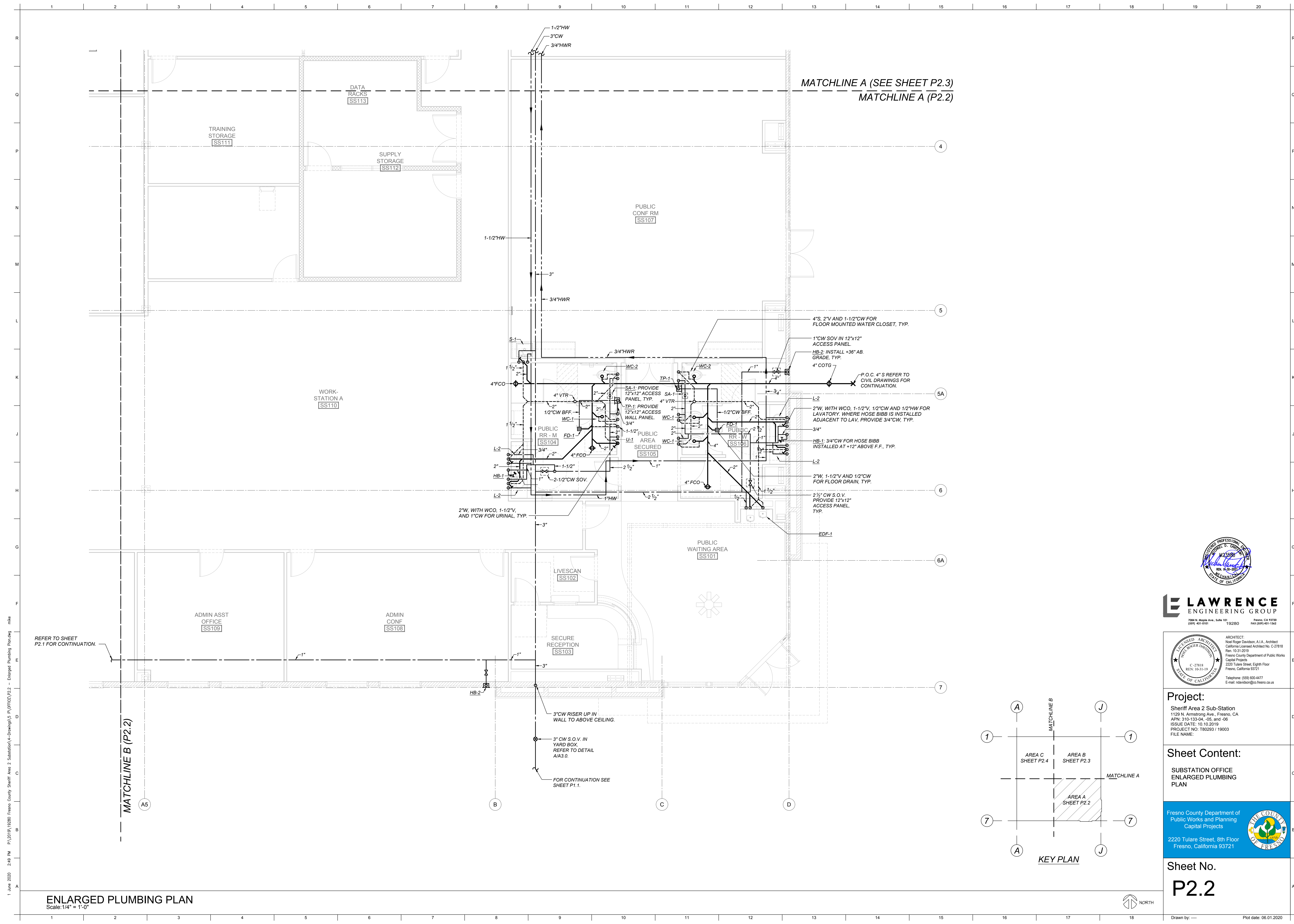
Sheet Content:
SUBSTATION OFFICE
OVERALL PLUMBING
PLAN

Fresno County Department of
Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
P2.1

Drawn by: --- Plot date: 06.01.2020

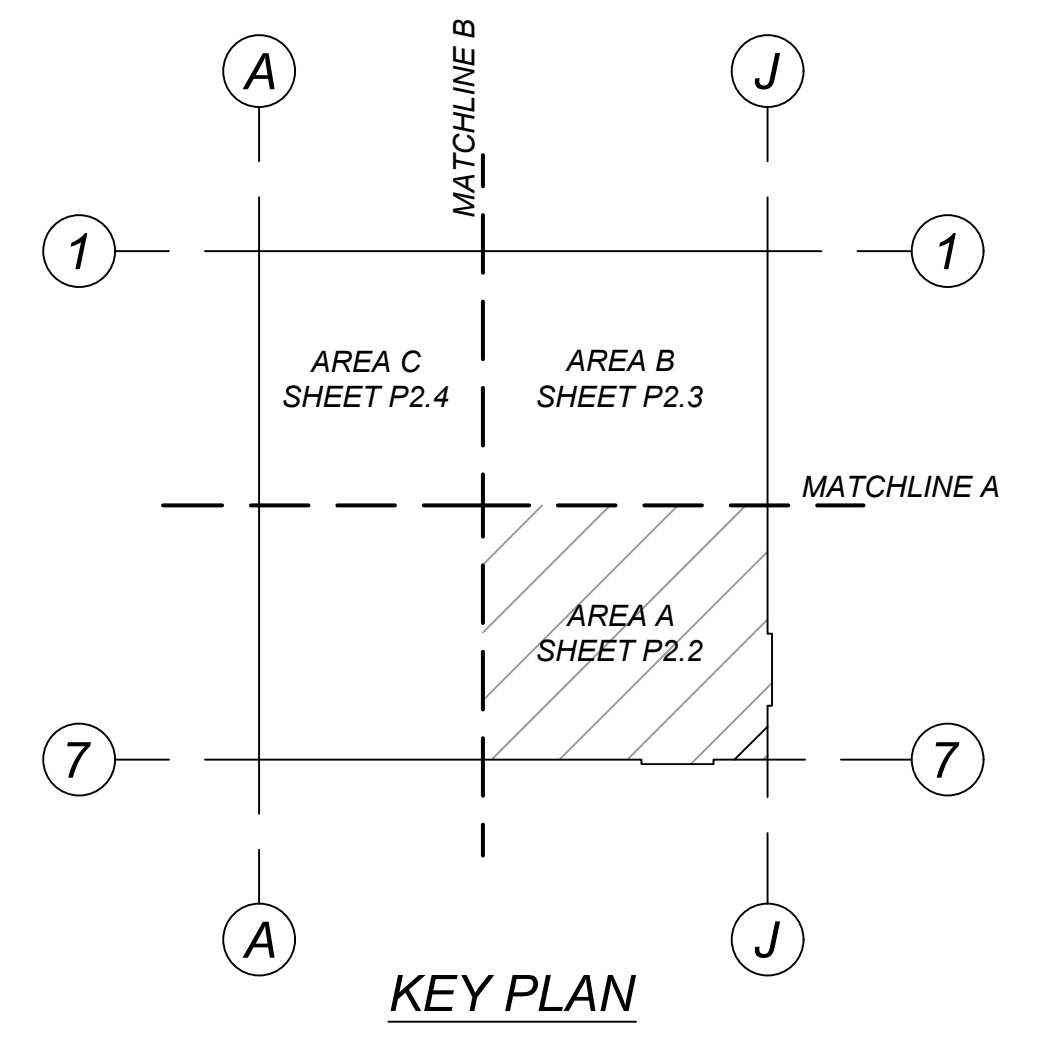
1 June 2020 2:45 PM P:\2019\19280 Fresno County Sheriff Area 2 Substation\4-Dwgs\AS P\OFFICE\P2.1 - Overall Office Plumbing Plan.dwg 01/20/20 2:48:48 PM



MATCHLINE A (SEE SHEET P2.3)
MATCHLINE A (P2.2)

MATCHLINE B (P2.2)

REFER TO SHEET P2.1 FOR CONTINUATION.



ENLARGED PLUMBING PLAN
Scale: 1/4" = 1'-0"



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ISSUE DATE: 10.10.2019
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FILE NAME:

Sheet Content:
SUBSTATION OFFICE
ENLARGED PLUMBING
PLAN

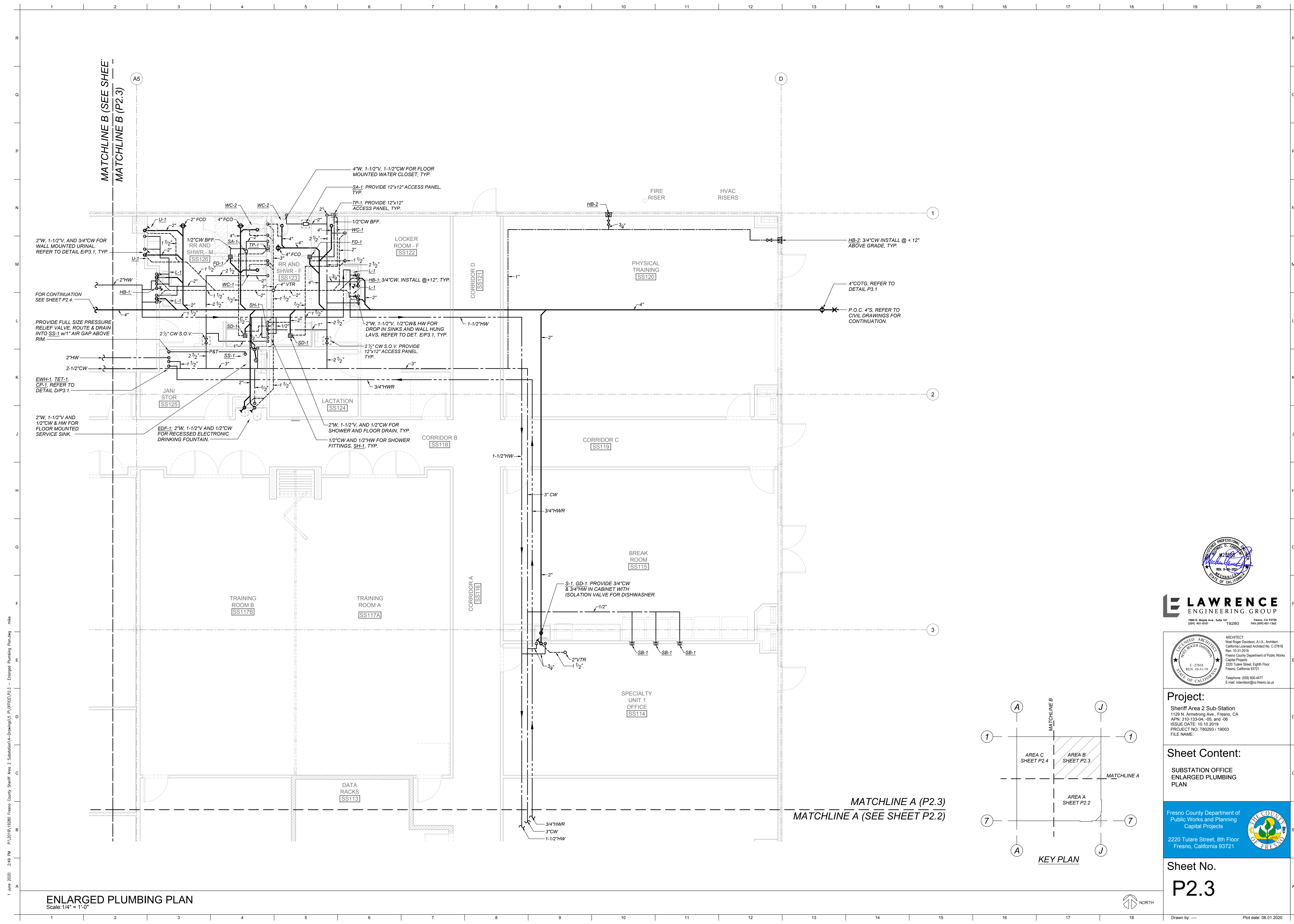
Fresno County Department of
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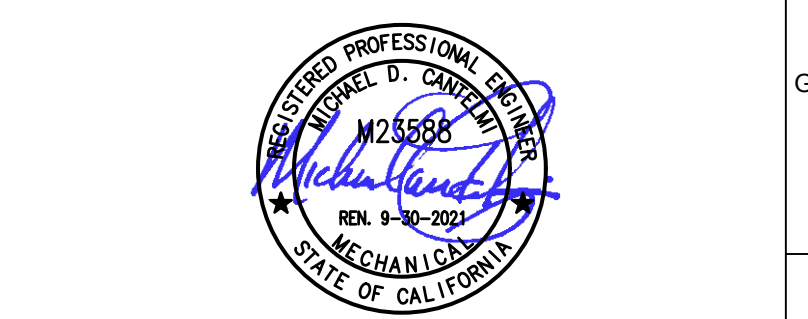
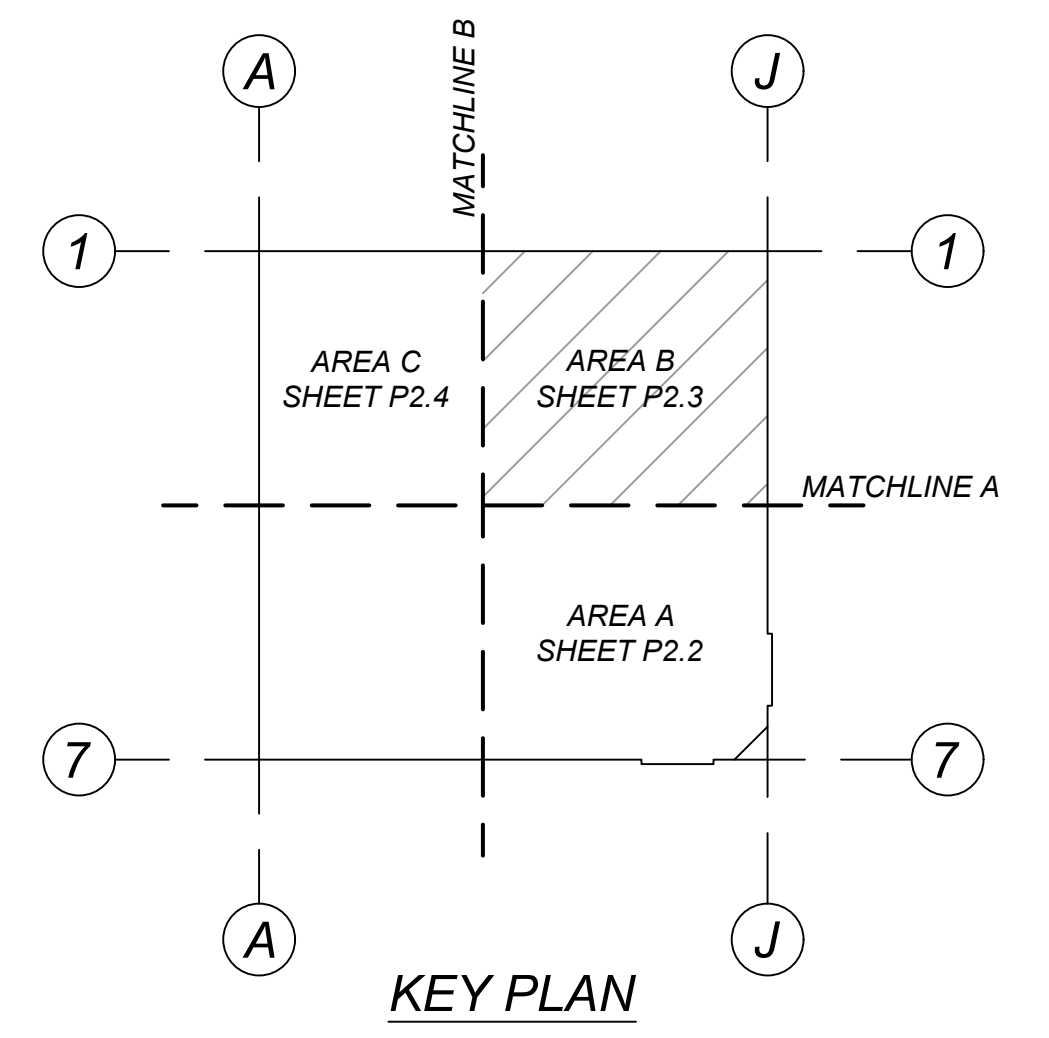
Sheet No.
P2.2



1 June 2020 2:45 PM P:\2019\19280 Fresno County Sheriff Area 2 Substation\4-Drawings\5-Plumbing\Enlarged Plumbing Plan.dwg mbe



ENLARGED PLUMBING PLAN
Scale: 1/4" = 1'-0"



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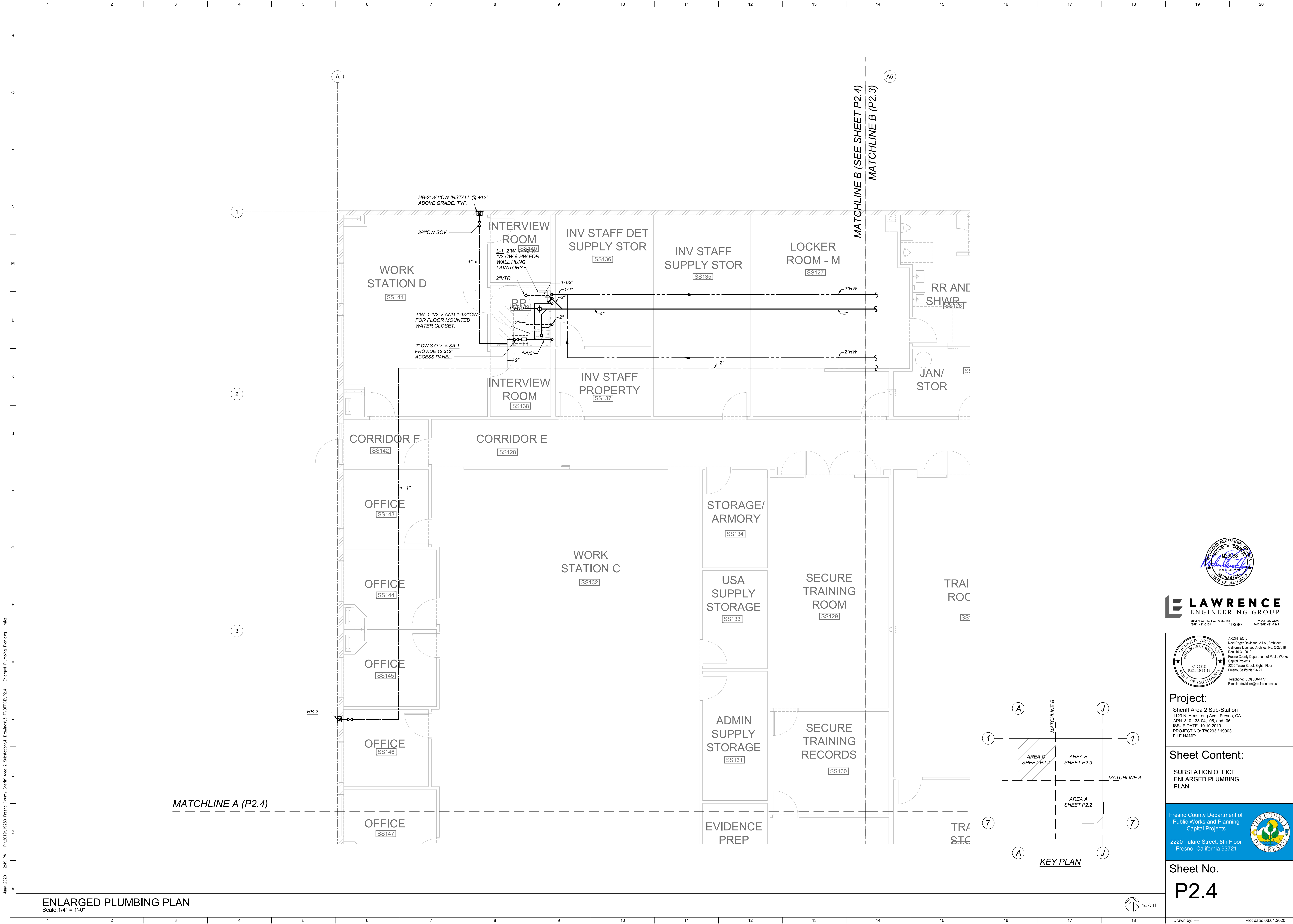
Sheet Content:
SUBSTATION OFFICE
ENLARGED PLUMBING
PLAN



Sheet No.
P2.3

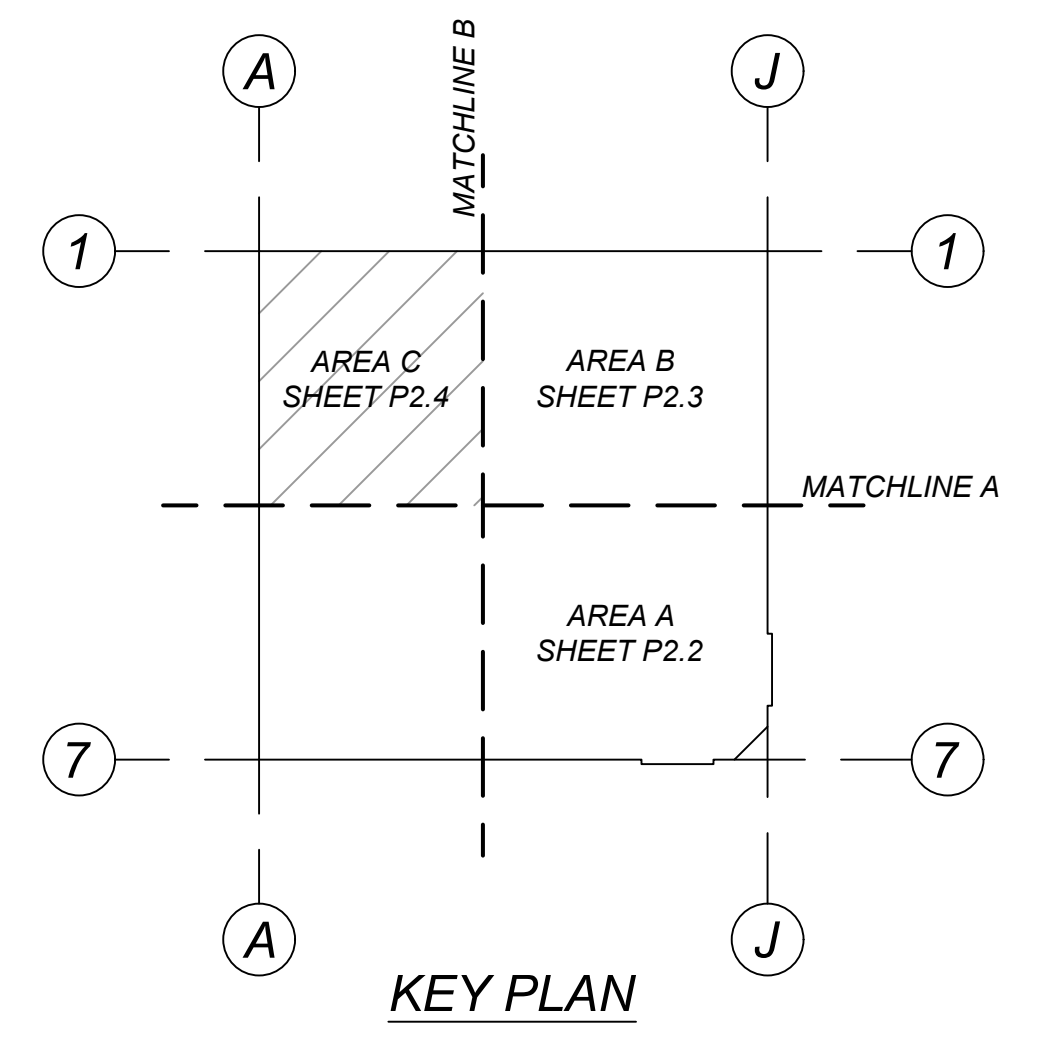


1 June 2020 2:45 PM P:\2019\19280 Fresno County Sheriff Area 2 Substation\4-Dwgs\PL\ENLARGED PLUMBING PLAN.dwg mbe



MATCHLINE A (P2.4)

MATCHLINE B (SEE SHEET P2.4)
MATCHLINE B (P2.3)



ENLARGED PLUMBING PLAN
Scale: 1/4" = 1'-0"



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Sheet Content:
SUBSTATION OFFICE
ENLARGED PLUMBING
PLAN

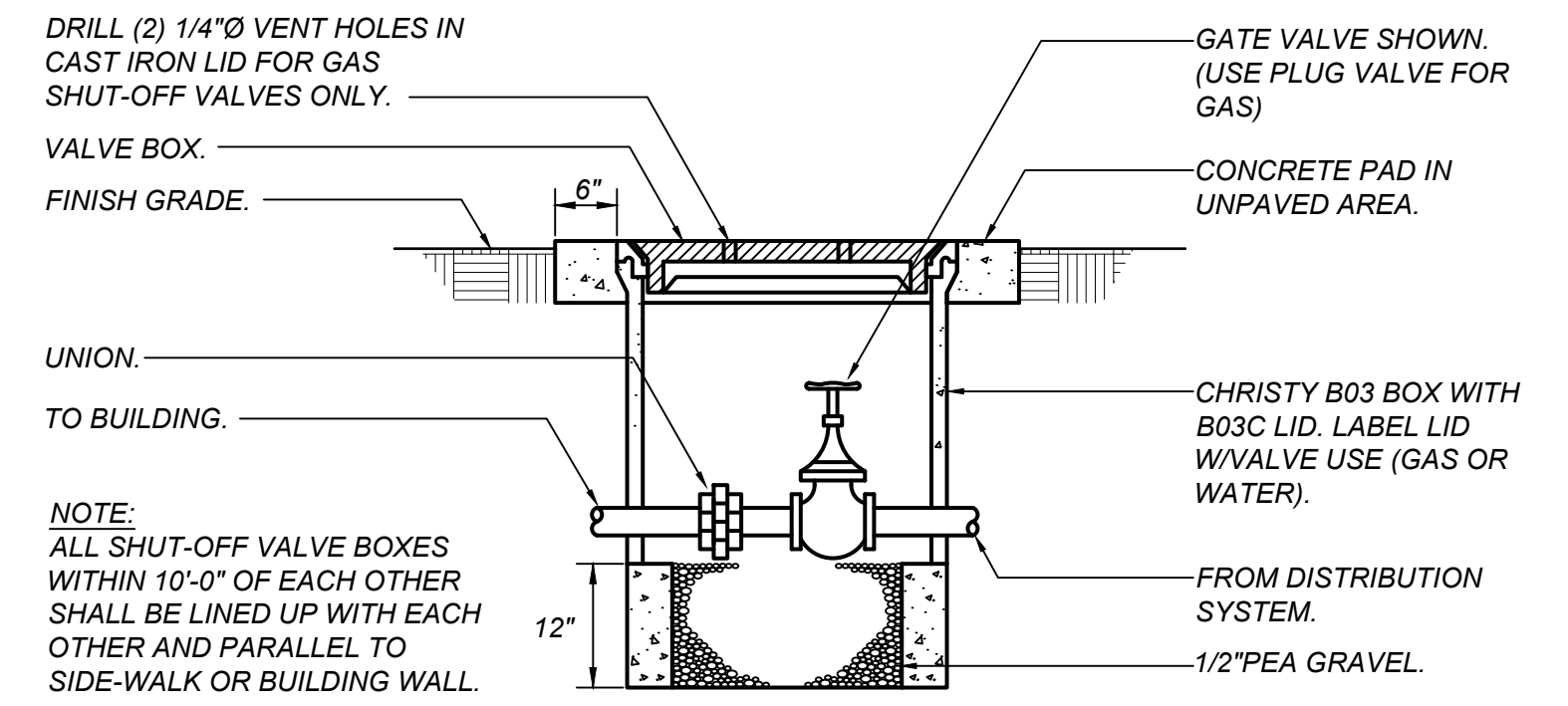
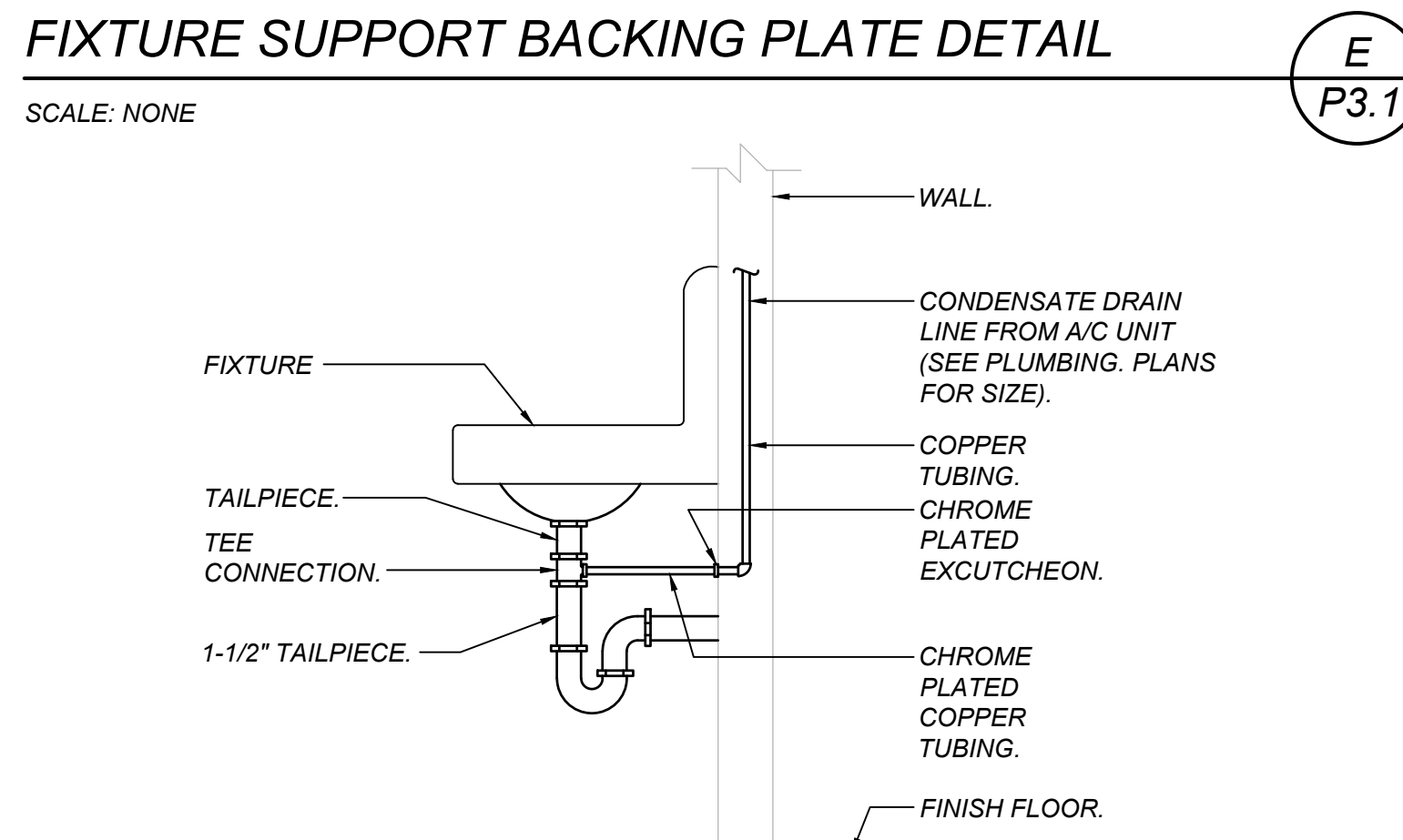
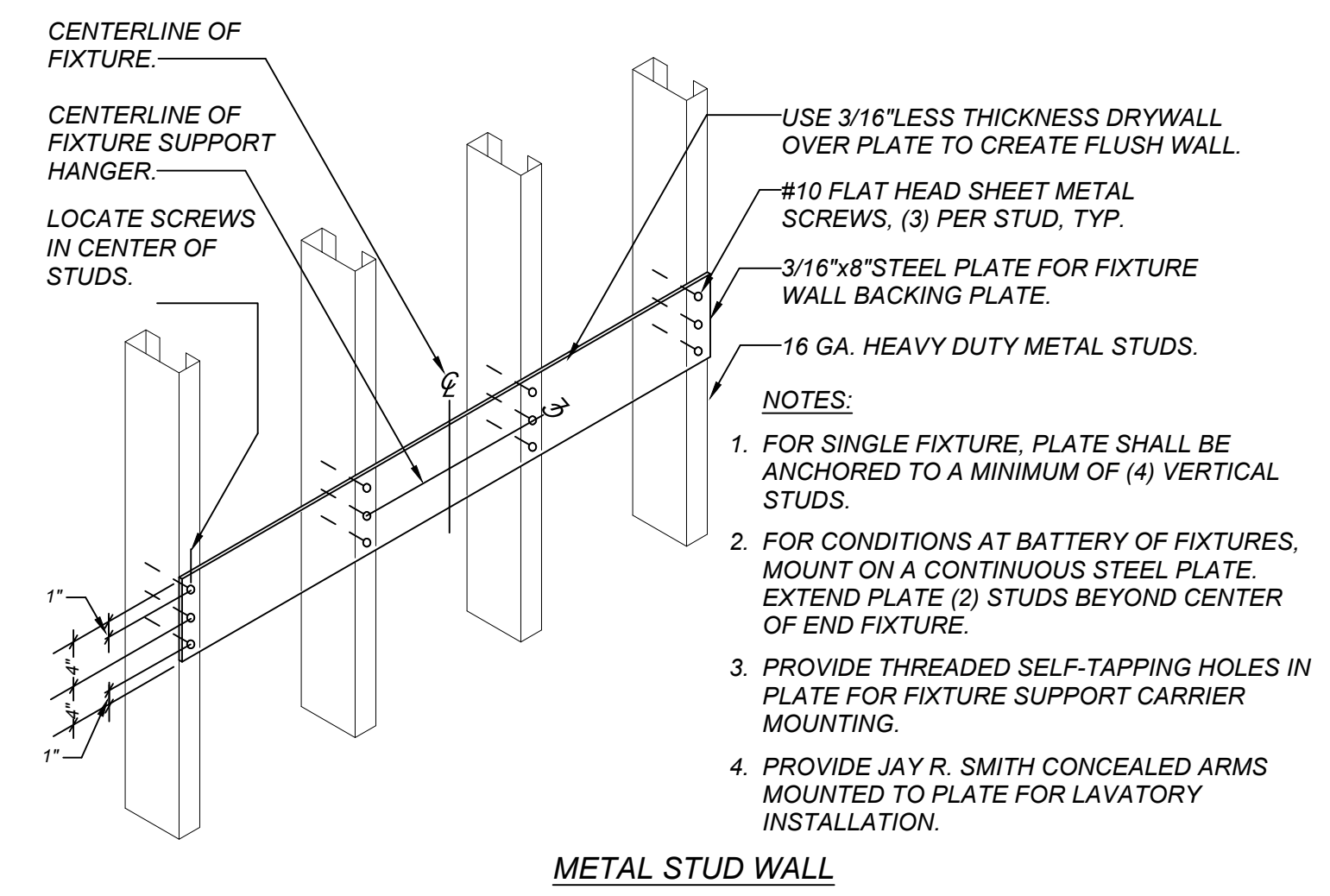


Sheet No.
P2.4

1 June 2020 2:45 PM P:\2019\19280 Fresno County Sheriff Area 2 Substation\4-Dwgs\4.5 P\OFFICE\192.4 - Enlarged Plumbing Plan.dwg mbe

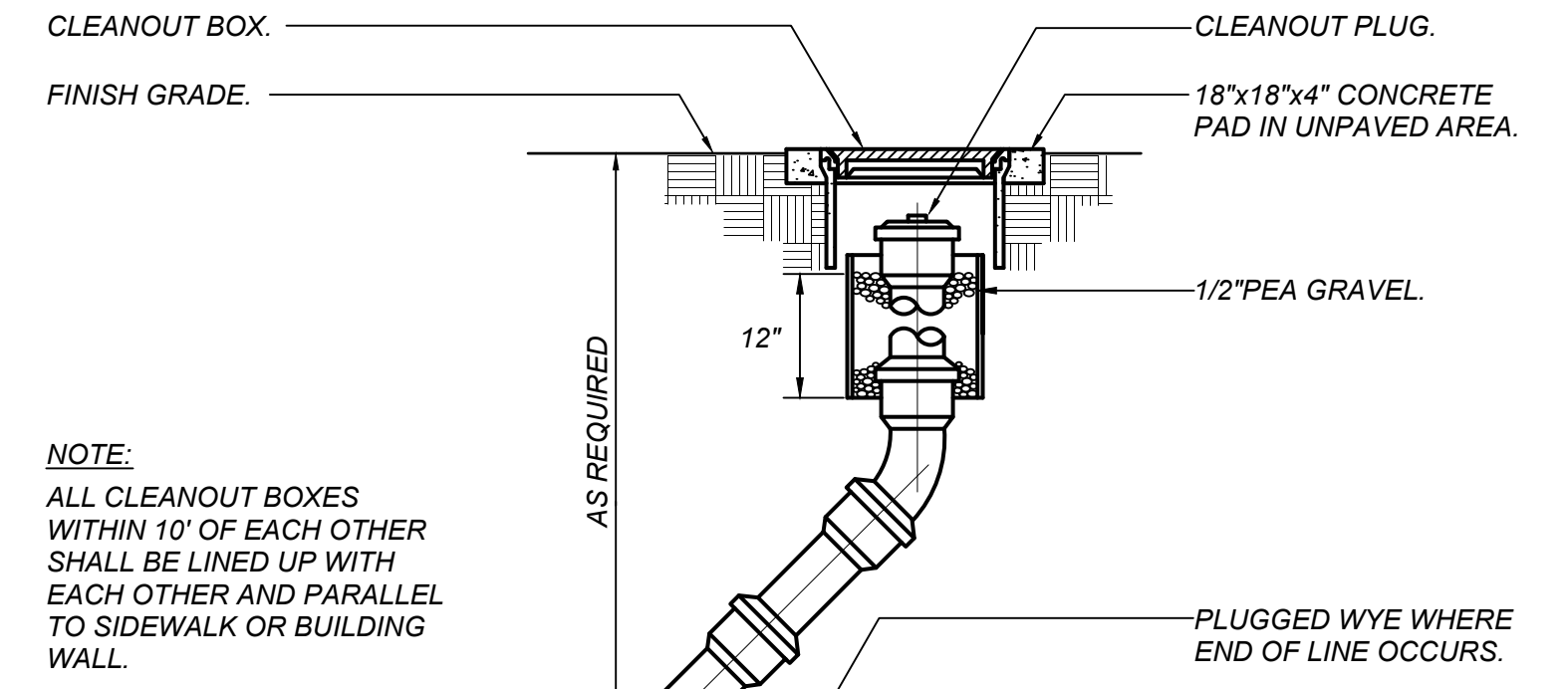
MARK	FIXTURE	CONNECTION SIZES				DESCRIPTION
		S or W	V	CW	HW	
SD-1	SHOWER DRAIN	2"	1-1/2"	-	-	JAY R. SMITH #2005-P050-HP (OR MIFAB OR ZURN EQUAL) DUCO CAST IRON BODY WITH 5" SQUARE NICKEL BRONZE STRAINER AND TRAP PRIMER CONNECTION.
SB-1	SUPPLY BOX	-	-	1/2"	-	SPECIALTY PRODUCTS #10B-509, METAL RECESSED REFRIGERATOR WATER SUPPLY BOX WITH WHITE FINISH, INTEGRAL SHUT-OFF VALVE AND MINI-WATER HAMMER ARRESTER.
SH-1	SHOWER FITTINGS	-	-	1/2"	1/2"	BRADLEY #559-2005 THERMOSTATIC MIXING SHOWER VALVE, ADA COMPLIANT, ASSE 1016 COMPLIANT WITH CHECKSTOPS AND LEVER HANDLE SPEAKMAN #VS-2954 POLISHED CHROME HAND SHOWER, 60" METAL HOSE WITH VACUUM BREAKER, 24" COMBINATION SLIDE/GRAB BAR.
TET-1	THERMAL EXPANSION TANK	-	-	3/4"	-	WESSELS TTA-5, 3.5 GALLON ASME RATED TANK / 2.3 GALLON ACCEPTANCE WITH INLINE CONNECTIONS AND WITH FDA APPROVED BLADDER FOR POTABLE WATER USE. WT. 52 LBS.
CP-1	CIRCULATING PUMP	-	-	-	3/4"	GRUNDFOS #UP26-96BF (OR B&G OR TACO EQUAL) IN-LINE CENTRIFUGAL PUMP WITH 3/4" FLANGED CONNECTIONS. 1/12 HP., 120V/1Ø, 5 GPM AT 26 FT. HEAD.
MV-1	THERMOSTATIC MIXING VALVE	-	-	-	-	BRADLEY #HL45, S59-3045-B-P (OR POWERS) THERMOSTATIC HIGH-LOW MIXING VALVE, 12.5 GPM FLOW AT 5 PSI PD, 3/4" INLETS AND 1" OUTLET, WITH WALL BRACKET AND PIPED ASSEMBLY WITH INLET AND OUTLET SHUT-OFF VALVES.
FD-1	FLOOR DRAIN	2"	1-1/2"	1/2"	-	JAY R. SMITH #2005-P050-HP (OR MIFAB OR ZURN EQUAL) DUCO CAST IRON BODY WITH 5" SQUARE NICKEL BRONZE STRAINER AND TRAP PRIMER CONNECTION.

MARK	FIXTURE	CONNECTION SIZES				DESCRIPTION
		S or W	V	CW	HW	
WC-1	WATER CLOSET	4"	2"	1/2"	-	AMERICAN STANDARD "MADERA FLOWISE ELONGATED TOILET" #3451001 (OR KOHLER OR ZURN EQUAL), FLOOR MOUNTED, ZURN FLUSH VALVE #ZSR6000AV-HET-CPM, 1.28 GPF, AND OLSONITE #95CC/SS EXTRA HEAVY DUTY OPEN-FRONT SEAT.
WC-2	WATER CLOSET	4"	2"	1/2"	-	AMERICAN STANDARD "MADERA FLOWISE ELONGATED TOILET" #3043 001 (OR KOHLER OR ZURN EQUAL), FLOOR MOUNTED, ZURN FLUSH VALVE #ZSR6000AV-HET-CPM, 1.28 GPF, FLUSH VALVE LEVER POINTED TOWARDS WIDE SIDE OF STALL, AND OLSONITE #95CC/SS EXTRA HEAVY DUTY OPEN-FRONT SEAT.
U-1	URINAL	2"	1-1/2"	3/4"	-	AMERICAN STANDARD "PINTBROOK" URINAL #9502 001 (OR KOHLER OR ZURN EQUAL) CBC ACCESS COMPLIANT, 0.125 GPF, WITH ZURN "AQUASENSE" #ZTR8203-UL-L-L SENSOR OPERATED FLUSH VALVE, 10 YEAR LONG LIFE BATTERIES, MECHANICAL OVERRIDE BUTTON, PROVIDE STEEL SUPPORT PLATE FOR MOUNTING FIXTURE PER DETAIL EP3.1. SEE ARCH. DWGS. FOR MOUNTING HEIGHT.
L-1	LAVATORY	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD "DECORUM" WALL-HUNG SINK #9024 000EC, (OR KOHLER OR ZURN EQUAL) CBC ACCESS COMPLIANT, 20"x38"x14" VIT. CHINA WITH NO FAUCET HOLES, MCGUIRE #155A GRID DRAIN, AMERICAN STANDARD "SERIN" WALL-MOUNT SENSOR OPERATED FAUCET #T064 345 (OR T&S BRASS OR ZURN EQUAL), 0.5 GPM, LAMINAR SPRAY, PWX 10 YEAR BATTERY POWER, #605XTM1070 THERMOSTATIC MIXING VALVE SET FOR 110°F OUTLET TEMP. WITH 1/2" TAILPIECE, #20181 PROTECTIVE LAVATORY ENCLOSURE, FIELD CUT STANDARD LAV SHIELD TO MATCH LAVATORY CONTOUR, FACTORY PRE-CUT LAV SHIELD ACCEPTABLE WHERE AVAILABLE. JAY R. SMITH #723 CONCEALED ARMS, AND A STEEL SUPPORT PLATE FOR MOUNTING FIXTURE PER DETAIL EP3.1. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
L-2	LAVATORY	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD "AQUALYN" DROP-IN LAVATORY #9476 028 020, CBC ACCESS COMPLIANT, 20-3/8"x17-3/8" OVAL VIT. CHINA WITH 3 FAUCET HOLES 4" ON CENTER, MCGUIRE #155A GRID DRAIN AND AMERICAN STANDARD "INNSBROOK" SELECTRONIC #8059, 204, 0.35 GAL. MIN., VANDAL RESISTANT, 7.5 SECOND CYCLE #605XTM1070 THERMOSTATIC MIXING VALVE SET FOR 110°F OUTLET TEMP.
HB-1	HOSE BIBB	-	-	3/4"	-	WOODFORD #24P (OR MIFAB EQUAL) OPTIONAL POLISHED CHROME WALL HOSE VALVE WITH LOCKSHIELD, NON-REMOVABLE VACUUM BREAKER, AND OPTIONAL LOOSE TEE KEY HANDLE WITH MODEL 34HD.
HB-2	HOSE BIBB	-	-	3/4"	-	WOODFORD #875 (OR MIFAB EQUAL) RECESSED WALL HOSE BOX WITH LOCKING DOOR, VACUUM BREAKER, LOOSE TEE KEY HANDLE, SCREWDRIVER STOP, SELF DRAINING CAST STAINLESS STEEL FOR NON-FREEZE AREAS.
SA-1	SHOCK ABSORBER	-	-	-	-	JAY R. SMITH #5010, (OR ZURN EQUAL) STAINLESS STEEL CONSTRUCTION, P.D.I. SYMBOL "B" FOR UP TO 32 FIXTURE UNITS, INSTALL IN UPWARD POSITION.
SA-2	SHOCK ABSORBER	-	-	-	-	JAY R. SMITH #5005, (OR ZURN EQUAL) STAINLESS STEEL CONSTRUCTION, P.D.I. SYMBOL "A" FOR UP TO 11 FIXTURE UNITS, INSTALL IN UPWARD POSITION.
EDF-1	ELECTRIC DRINKING FOUNTAIN	2"	1-1/2"	1/2"	-	ELKAY #EZH20" #LZWS-URPM28K, CBC ACCESS COMPLIANT, DUAL HEIGHT STAINLESS STEEL FOUNTAINS, PUSH-BUTTON OPERATION, RECESSED CHILLER #ECH8 WITH STAINLESS STEEL WALL GRILLE, MOUNTING FRAME #MFWIS20, AND INTERGRAL BOTTLE FILLING STATION, ELECTRICAL REQUIRED, 120V/1Ø, 1 FLA, 370 WATTS.
TP-1	TRAP PRIMER	-	-	1/2"	-	PRECISION PLUMBING PRODUCTS MODEL #P-1 (OR MIFAB EQUAL) VALVE W/ DISTRIBUTION UNITS AS REQUIRED FOR UP TO 4 DRAINS PER DISTRIBUTION UNIT.
S-1	SINK	2"	1-1/2"	1/2"	1/2"	ELKAY #RAD252140 (OR JUST EQUAL) ADA COMPLIANT, SINGLE COMPARTMENT 18 GAUGE STAINLESS STEEL, 25"x21-1/4"x14" BEEP BOWL SIZE, CENTER REAR DRAIN WITH #4-35SS BASKET STRAINER, AND CHICAGO #2300-8E34BPCP (OR T&S BRASS OR ZURN EQUAL) SINGLE LEVER, #ZW3870XL-T-4P 4 PORT THERMOSTATIC MIXING VALVE SET FOR 110°F OUTLET TEMP.
GD-1	GARBAGE DISPOSAL	-	-	-	-	IN-SINK-ERATOR "EVOLUTION ESSENTIAL" MULTI-GRIND, CONTINUOUS FEED SOUNDSEAL TECHNOLOGY, SIX YEAR WARRANTY, 3/4 HP, 120V/1Ø MOTOR, WITH ON/OFF WALL SWITCH & STAINLESS STEEL GRINDING ELEMENTS.
SS-1	SERVICE SINK	3"	2"	1/2"	1/2"	AMERICAN STANDARD "AKRON" #7695 008, 24"x20-1/2" ENAMELED CAST IRON WITH RIM GUARD, DRILLED BACK 2 HOLES ON 8" CENTERS, #7798 030 CAST IRON P-TRAP TO WALL AND STRAINER FOR 3" IRON PIPE, ZURN #2841L1 (OR CHICAGO OR T&S BRASS EQUAL) POLISHED CHROME FAUCET WITH VACUUM BREAKER AND STOPS, PROVIDE A STEEL SUPPORT PLATE FOR MOUNTING FIXTURE PER DETAIL EP3.1.
EW-1	ELECTRIC WATER HEATER	-	-	-	-	BRADFORD WHITE "ELECTRI FLEX MD" #E32-80-R3 ELECTRIC WATER HEATER (OR AD SMITH EQUAL) 24"Øx61-3/8" HIGH, 80 GALLON STORAGE CAPACITY, 61 GPH @ 80°F RISE, UNIT WEIGHT = 750 LBS



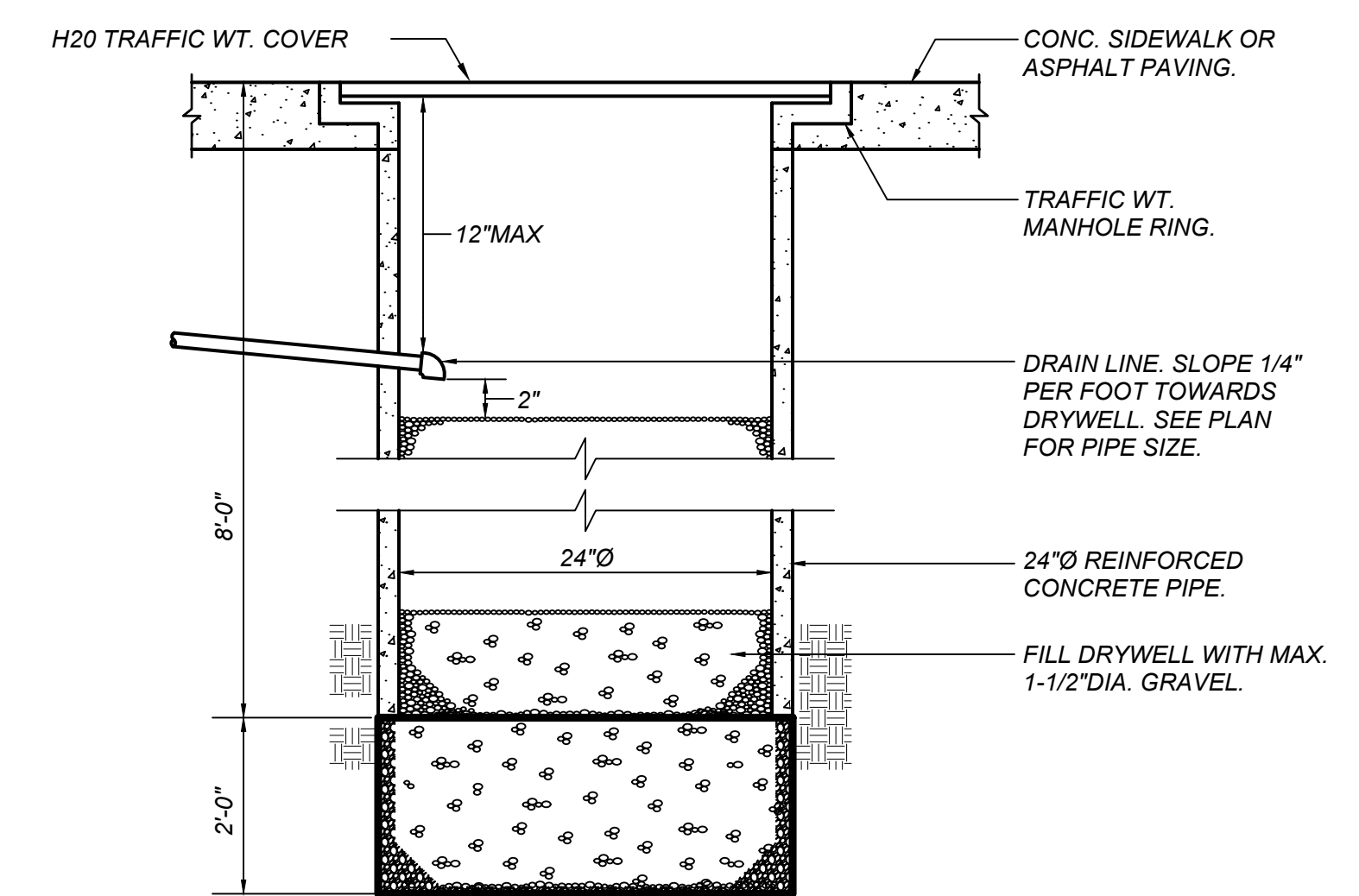
SHUT-OFF VALVE IN BOX DETAIL

SCALE: NONE



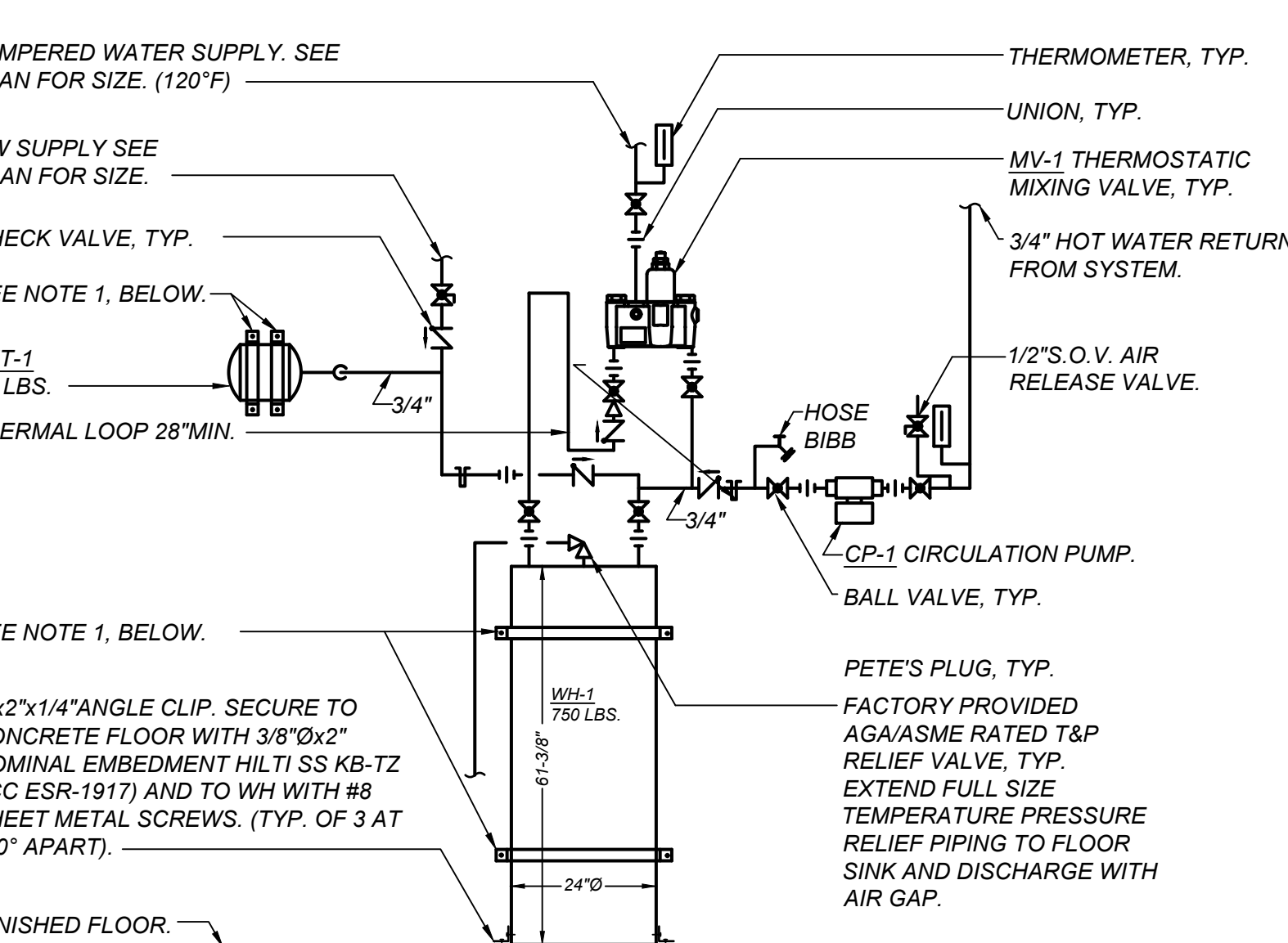
CLEANOUT TO GRADE DETAIL

SCALE: NONE



DRYWELL DETAIL

SCALE: NONE



WATER HEATER DETAIL (WH-1)

SCALE: NONE

FIXTURE UNIT SUMMARY

Project No.: 19280
 Project: Sheriff Area 2 Sub-Station
 Date: 12/20/19
 Location: FRESNO, CA
 Prepared By: EF
 File Name: WATER - DRAIN - SEPTIC SYSTEM CALC - V1.5

NO. OF FIXTURES	TYPE OF FIXTURE (FROM WATER SUPPLY & DRAIN FIXTURE UNIT TABLE - SEE TAB BELOW)	BOTH COLD & HOT WATER		COLD WATER		HOT WATER		SEWER	
		WFPU	DFPU	WFPU	DFPU	WFPU	DFPU	WFPU	DFPU
10	WATER CLOSET, PV, 1.8 GPF	10	10	10	10	10	10	10	10
7	LAVATORY	7	7	7	7	7	7	7	7
3	URINAL, FV, 1.0 GPF	3	3	3	3	3	3	3	3
1	SERVICE SINK	1	1	1	1	1	1	1	1
2	SINK	2	2	2	2	2	2	2	2
10	HOSE BIBB	10	10	10	10	10	10	10	10
2	DRINKING FOUNTAIN OR WATERCOOLER	2	2	2	2	2	2	2	2
4	FLOOR DRAIN	4	4	4	4	4	4	4	4
1	DISHWASHER, DOMESTIC	1	1	1	1	1	1	1	1
3	SUPPLY BOX	3	3	3	3	3	3	3	3
2	SHOWER	2	2	2	2	2	2	2	2
TOTAL FIXTURE UNITS		103.00	103.00	103.00	103.00	103.00	103.00	103.00	103.00

DOMESTIC WATER DEMAND AND SIZING

Project No.: 19280
 Project: Sheriff Area 2 Sub-Station
 Date: 12/20/19
 Location: FRESNO, CA
 Prepared By: EF
 File Name: WATER - DRAIN - SEPTIC SYSTEM CALC - V1.5

Meter Size: 2"

System Type (1): Predominantly Flushometer Valves
 Predominantly Flush Tanks

Misc. Added Flow - [DESCR.] 103.00 Water Fixture Units Equal 68 GPM
 0.0 GPM

Misc. Added Flow - [DESCR.] 0.0 GPM

Total Flow 68 GPM

Total distance from Water Meter to most remote Plumbing Fixture 500 FL

Total rise for Head Loss 5 FL x 0.43 2.2 PSI

PSI required for Water Closet 25.0 PSI

PSI Flow Loss through Water Meter (1.5 PSI) 1.5 PSI

PSI Flow Loss through Backflow Preventer (10 - 12 PSI) 12.0 PSI

Line Loss between Pump Stations and Job Sets (5 PSI) 0.0 PSI

Area Minimum PSI 45.0 PSI

Total Loss in PSI 40.7 PSI

Total Remaining PSI available 4.4 PSI

4.4 PSI available divided by 500 Total Feet x 100 0.9 PSI / 100'

PIPE SIZING TABLE

Pipe Size	GPM (2) for	F.V. Fixture Units	F.T. Fixture Units
6" Pipe will deliver	-	-	-
4" Pipe will deliver	170	788	804
3" Pipe will deliver	80	155	324
2-1/2" Pipe will deliver	45	38	131
2" Pipe will deliver	30	14	54
1-1/2" Pipe will deliver	16	-	23
1-1/4" Pipe will deliver	11	-	15
1" Pipe will deliver	4	-	5
3/4" Pipe will deliver	2	-	2
1/2" Pipe will deliver	1	-	1

Notes:
 (1) Mark an "X" in the predominant system type.
 (2) Based on 6 FPS maximum velocity [Iron Pipe]
 F.V. is Flushometer Valve
 F.T. is Flush Tank



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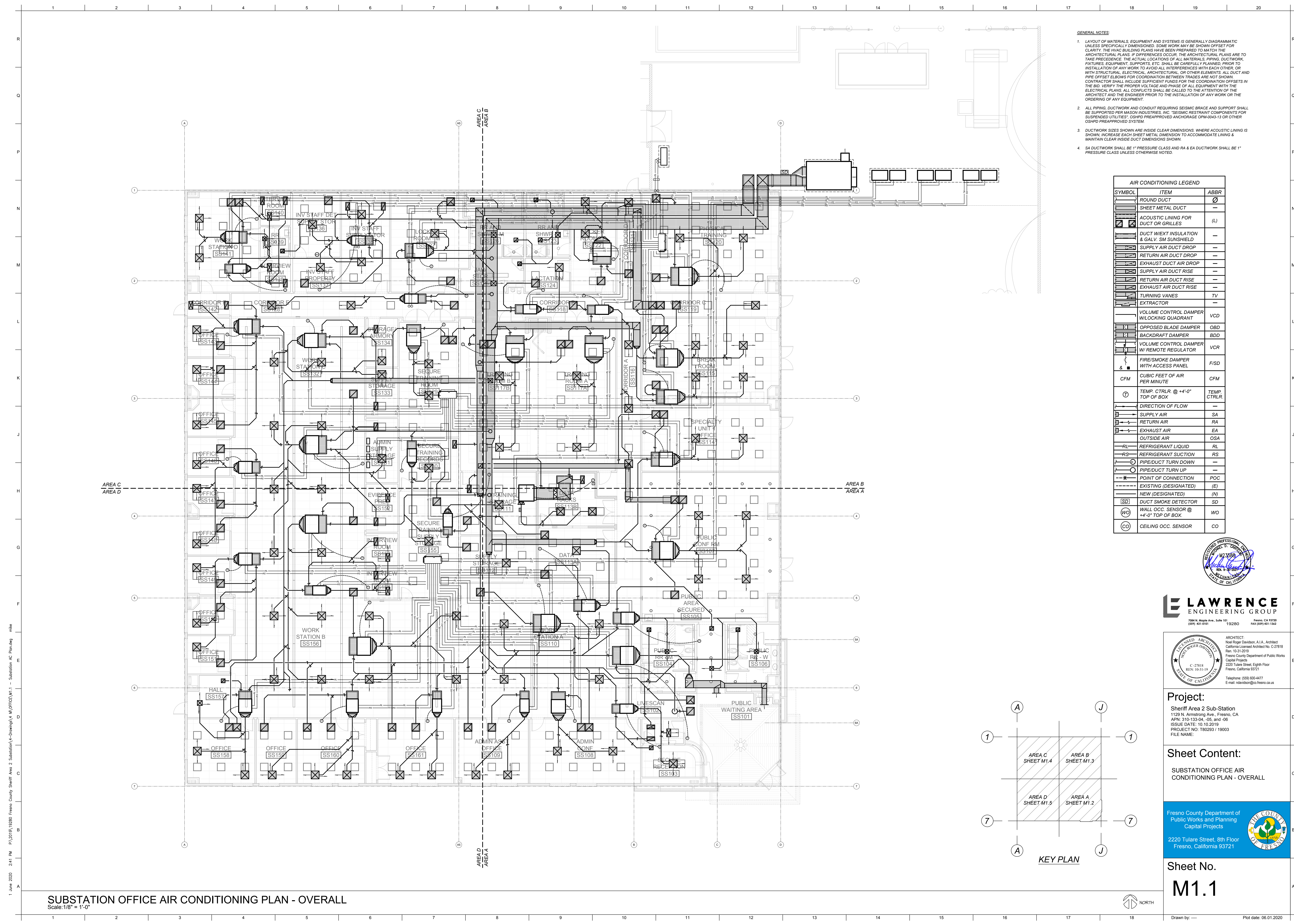
LAWRENCE ENGINEERING GROUP
 ARCHITECT: Neil Roger Davidson, A.I.A., Architect
 California Licensed Architect No. C-27818
 Ren. 10-31-2019
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 Email: nrdavidson@cei.fresno.ca.us

Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong St., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 10.10.2019
 PROJECT NO: T80293 / 19003
 FILE NAME:

Sheet Content:
 SCHEDULES AND DETAILS

Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No. P3.1



- GENERAL NOTES:**
- LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE HVAC BUILDING PLANS HAVE BEEN PREPARED TO MATCH THE ARCHITECTURAL PLANS. IF DIFFERENCES OCCUR, THE ARCHITECTURAL PLANS ARE TO TAKE PRECEDENCE. THE ACTUAL LOCATIONS OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED. PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL, OR OTHER ELEMENTS. ALL DUCT AND PIPE OFFSET ELBOWS FOR COORDINATION BETWEEN TRADES ARE NOT SHOWN. CONTRACTOR SHALL INCLUDE SUFFICIENT FUNDS FOR THE COORDINATION OFFSETS IN THE BID. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
 - ALL PIPING, DUCTWORK AND CONDUIT REQUIRING SEISMIC BRACE AND SUPPORT SHALL BE SUPPORTED PER MASON INDUSTRIES, INC. "SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES" CSHPD PREAPPROVED ANCHORAGE 09M-0043-13 OR OTHER CSHPD PREAPPROVED SYSTEM.
 - DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. WHERE ACOUSTIC LINING IS SHOWN, INCREASE EACH SHEET METAL DIMENSION TO ACCOMMODATE LINING & MAINTAIN CLEAR INSIDE DUCT DIMENSIONS SHOWN.
 - SA DUCTWORK SHALL BE 1" PRESSURE CLASS AND RA & EA DUCTWORK SHALL BE 1" PRESSURE CLASS UNLESS OTHERWISE NOTED.

AIR CONDITIONING LEGEND		
SYMBOL	ITEM	ABBR
	ROUND DUCT	Ø
	SHEET METAL DUCT	—
	ACOUSTIC LINING FOR DUCT OR GRILLES	(L)
	DUCT WEXT INSULATION & GALV. SM SUNSHIELD	—
	SUPPLY AIR DUCT DROP	—
	RETURN AIR DUCT DROP	—
	EXHAUST DUCT AIR DROP	—
	SUPPLY AIR DUCT RISE	—
	RETURN AIR DUCT RISE	—
	EXHAUST AIR DUCT RISE	—
	TURNING VANES	TV
	EXTRACTOR	—
	VOLUME CONTROL DAMPER W/ LOCKING QUADRANT	VCD
	OPPOSED BLADE DAMPER	OBD
	BACKDRAFT DAMPER	BDD
	VOLUME CONTROL DAMPER W/ REMOTE REGULATOR	VCR
	FIRE/SMOKE DAMPER WITH ACCESS PANEL	F/SD
	CUBIC FEET OF AIR PER MINUTE	CFM
	TEMP CTRLR @ +4-0" TOP OF BOX	TEMP CTRLR
	DIRECTION OF FLOW	—
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	OUTSIDE AIR	OSA
	REFRIGERANT LIQUID	RL
	REFRIGERANT SUCTION	RS
	PIPEDUCT TURN DOWN	—
	PIPEDUCT TURN UP	—
	POINT OF CONNECTION	POC
	EXISTING (DESIGNATED)	(E)
	NEW (DESIGNATED)	(N)
	DUCT SMOKE DETECTOR	SD
	WALL OCC. SENSOR @ +4-0" TOP OF BOX	WO
	CEILING OCC. SENSOR	CO



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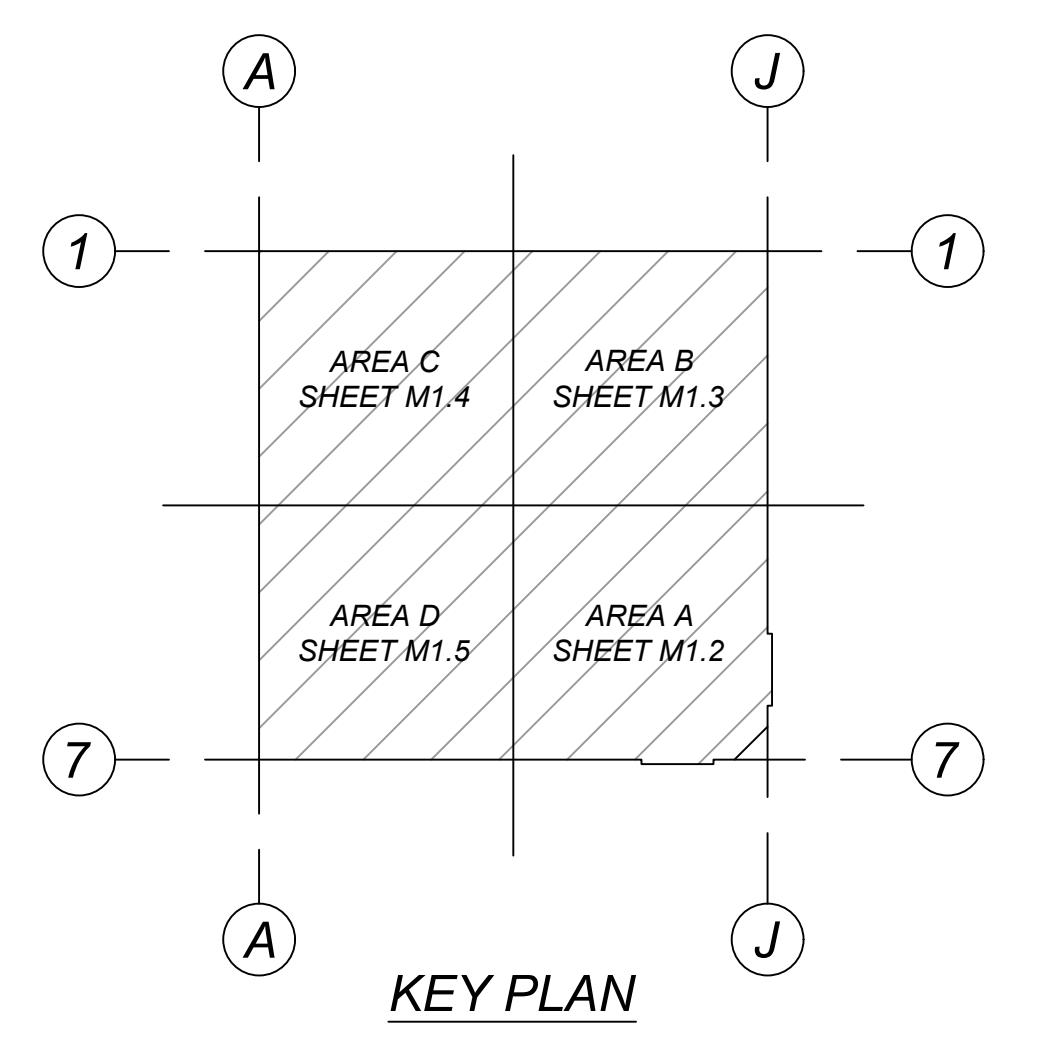
ARCHITECT:
 Neal Roger Davidson, A.I.A., Architect
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 Fresno County Department of Public Works
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Project:
 Sheriff Area 2 Sub-Station
 1120 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04-.05, and .06
 ISSUE DATE: 10.10.2019
 PROJECT NO: T80293 / 19003
 FILE NAME:

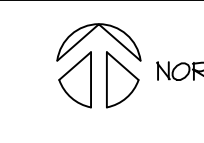
Sheet Content:
 SUBSTATION OFFICE AIR
 CONDITIONING PLAN - OVERALL

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 Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

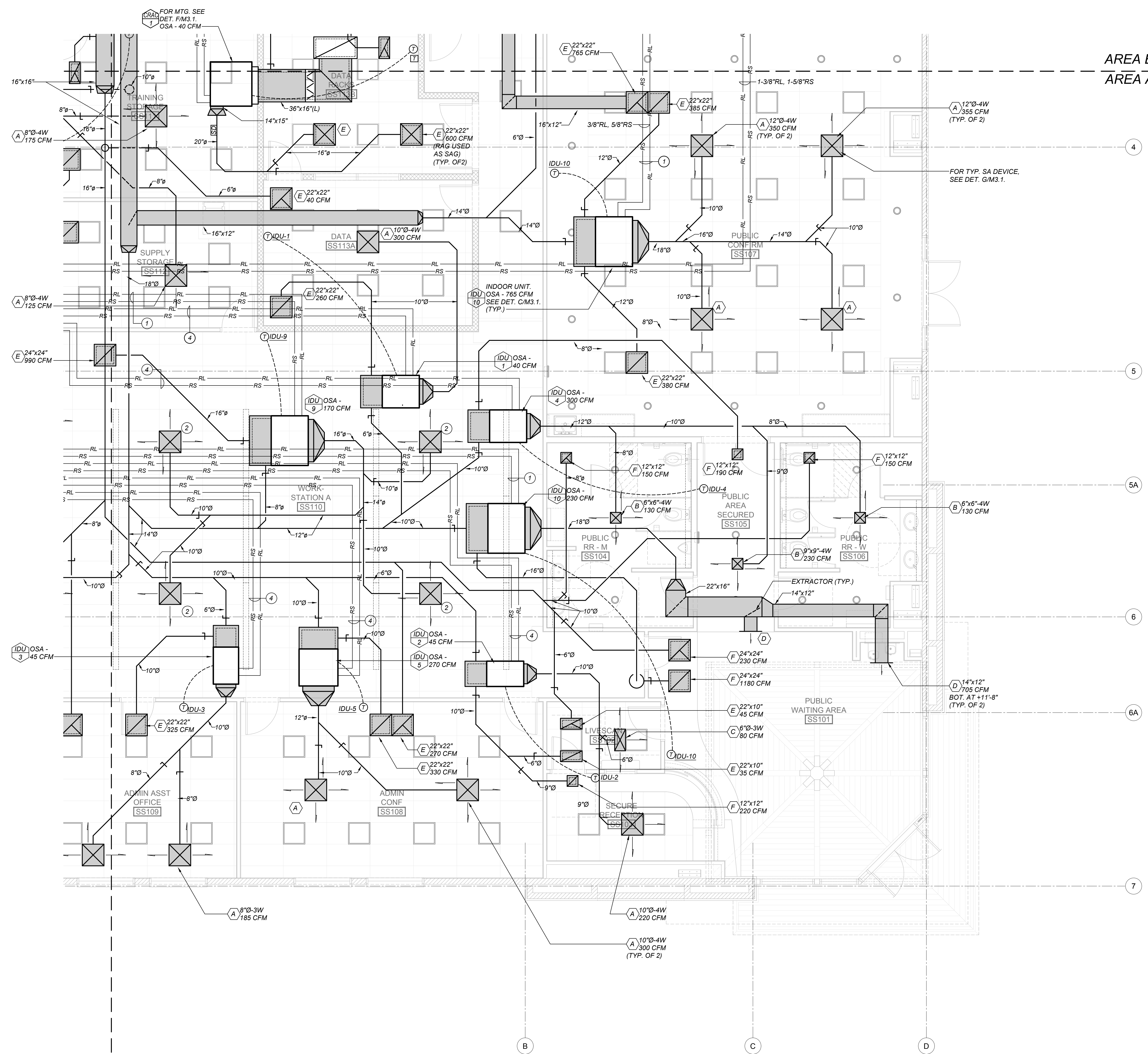
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SUBSTATION OFFICE AIR CONDITIONING PLAN - OVERALL
 Scale: 1/8" = 1'-0"



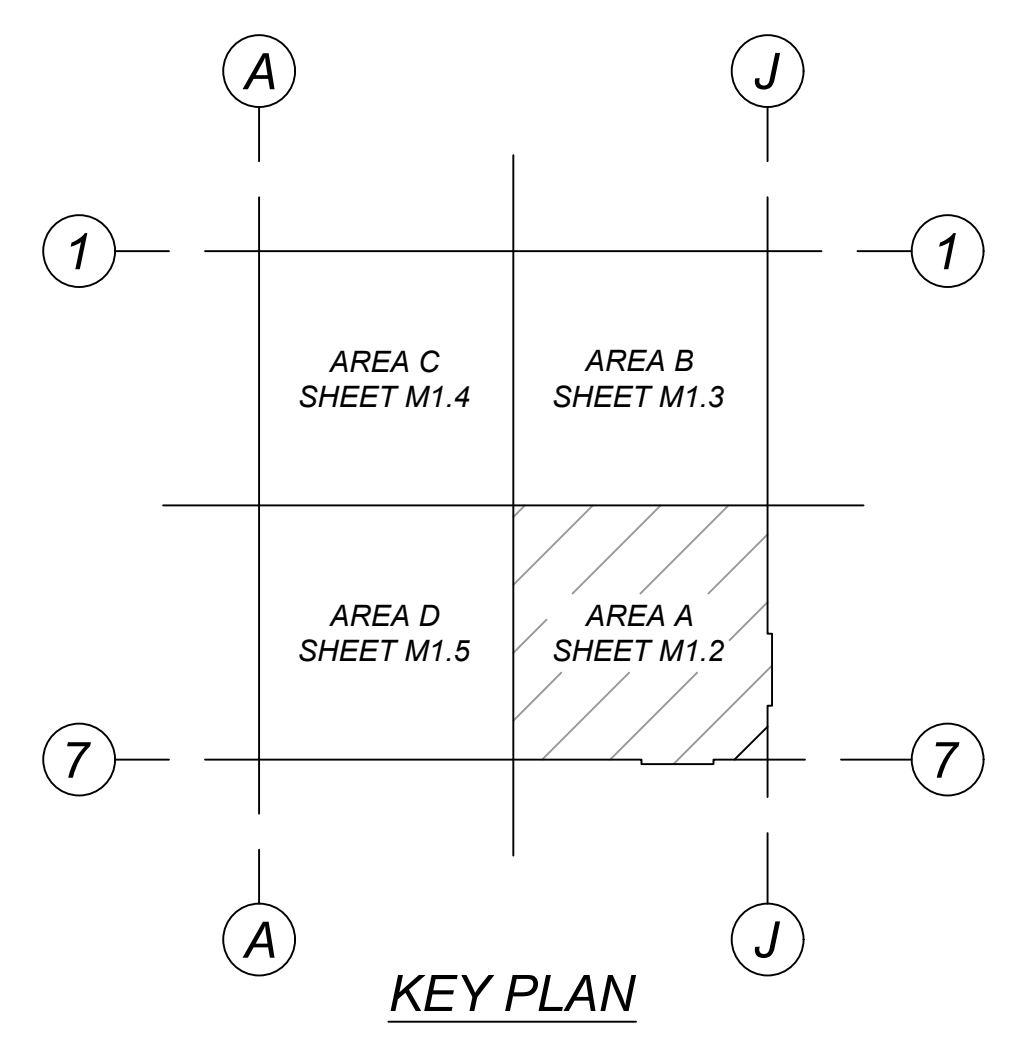
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AREA B
AREA A

KEYNOTES: (THIS SHEET ONLY)

- 1 3/8"RL, 5/8"RS
- 2 A 10'0"-4W / 290 CFM
- 3 A 10'0"-3W / 255 CFM
- 4 1/4"RL, 1/2"RS



KEY PLAN

SUBSTATION OFFICE AIR CONDITIONING PLAN - AREA A
Scale: 1/4" = 1'-0"



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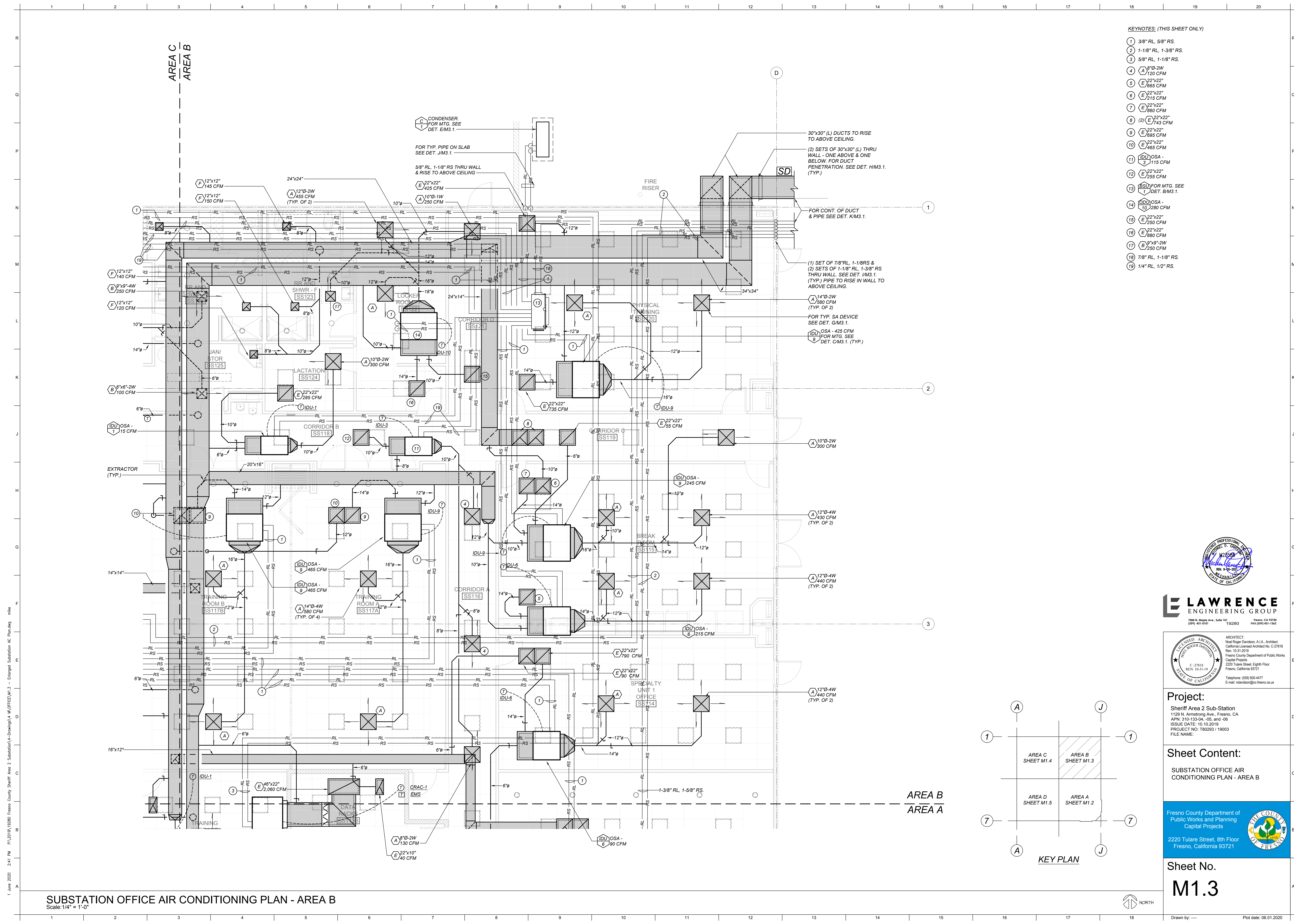
Sheet Content:
SUBSTATION OFFICE AIR
CONDITIONING PLAN - AREA A

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Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

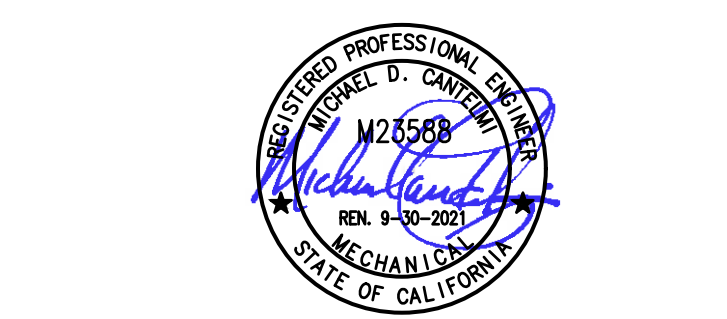


Sheet No.

M1.2



- KEYNOTES: (THIS SHEET ONLY)
- 1 3/8" RL, 5/8" RS.
 - 2 1-1/8" RL, 1-3/8" RS.
 - 3 5/8" RL, 1-1/8" RS.
 - 4 A 8"Ø-2W, 120 CFM
 - 5 E 22"Ø-22", 665 CFM
 - 6 E 22"Ø-22", 860 CFM
 - 7 E 22"Ø-22", 860 CFM
 - 8 (2) E 22"Ø-22", 743 CFM
 - 9 E 22"Ø-22", 695 CFM
 - 10 E 22"Ø-22", 465 CFM
 - 11 IDU OSA - 3, 115 CFM
 - 12 E 22"Ø-22", 255 CFM
 - 13 IDU FOR MTG. SEE DET. BM3.1.
 - 14 IDU OSA - 10, 280 CFM
 - 15 E 22"Ø-22", 250 CFM
 - 16 E 22"Ø-22", 680 CFM
 - 17 B 8"Ø-2W, 250 CFM
 - 18 7/8" RL, 1-1/8" RS.
 - 19 1/4" RL, 1/2" RS.



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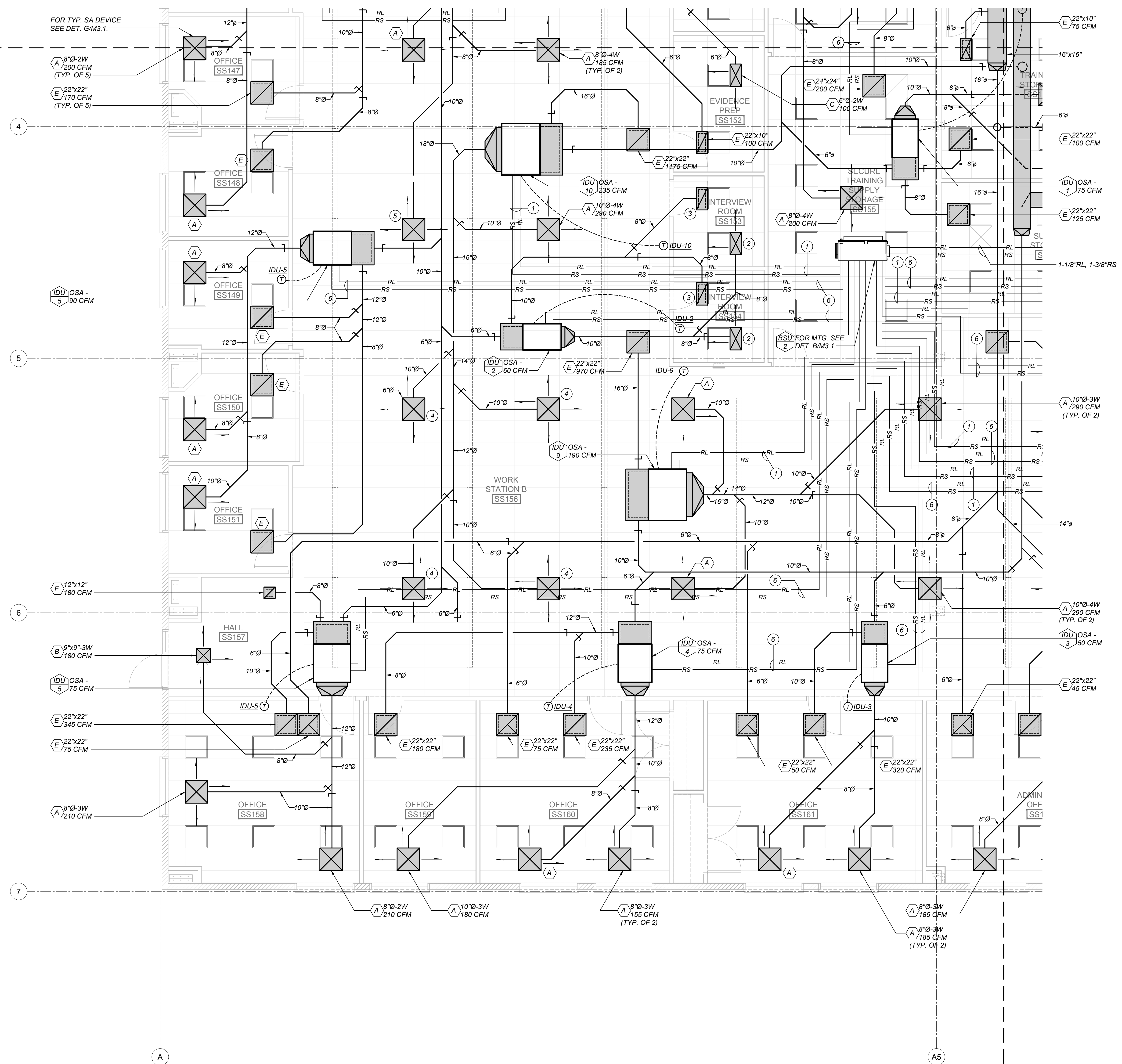
Project:
 Sheriff Area 2 Sub-Station
 11220 N. Armitage Ave., Fresno, CA
 APN: 310-133-04-.05, and -.06
 ISSUE DATE: 10.10.2019
 PROJECT NO: T80293 / 19003
 FILE NAME:

Sheet Content:
 SUBSTATION OFFICE AIR
 CONDITIONING PLAN - AREA B

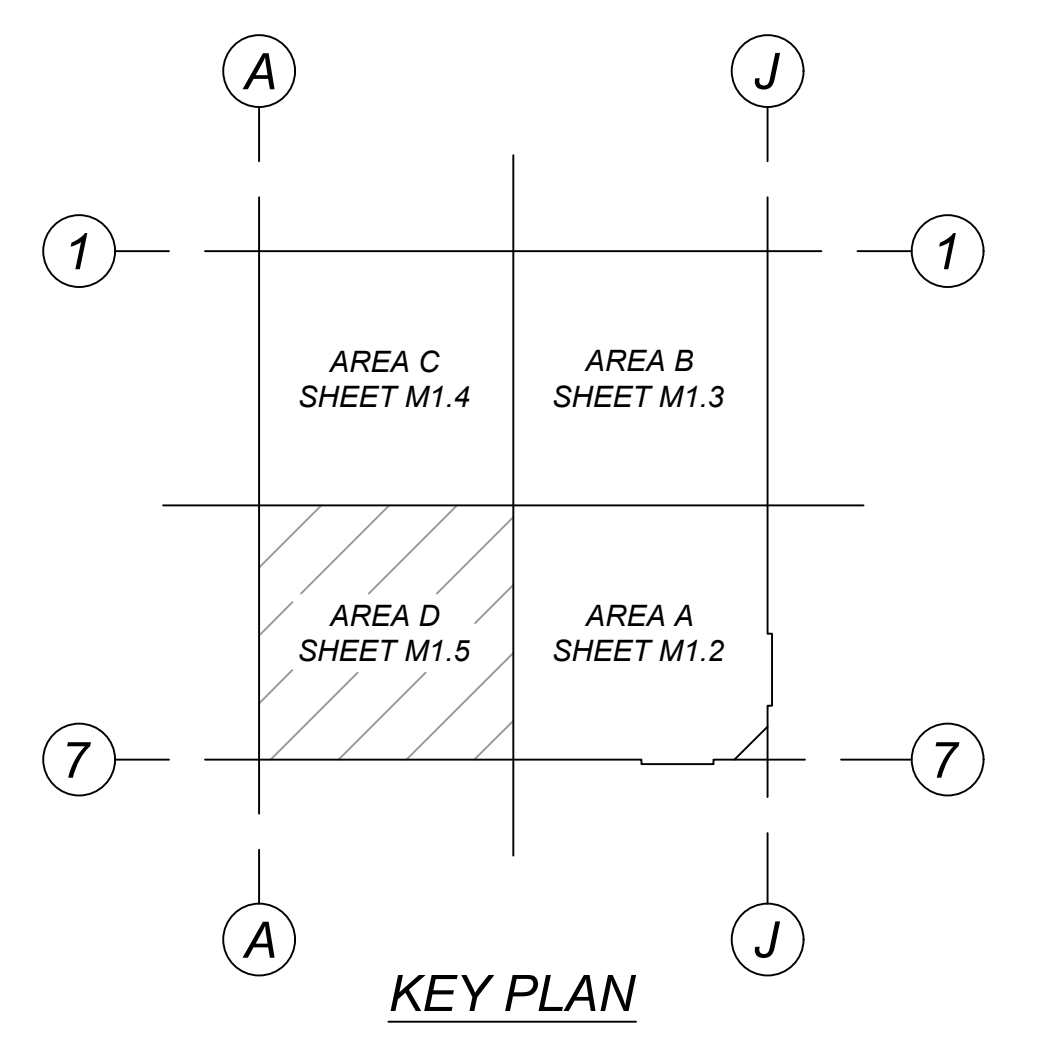


Sheet No.
M1.3

AREA C
AREA D



- KEYNOTES: (THIS SHEET ONLY)
- 1 3/8"RL, 5/8"RS
 - 2 6"X6"-2W, 150 CFM
 - 3 22"X10", 120 CFM
 - 4 10"Ø-4W, 280 CFM
 - 5 8"Ø-4W, 190 CFM
 - 6 1/4"RL, 1/2"RS



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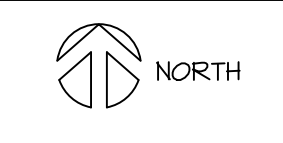
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Sheet Content:
 SUBSTATION OFFICE AIR
 CONDITIONING PLAN - AREA D



Sheet No.
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SUBSTATION OFFICE AIR CONDITIONING PLAN - AREA D
 Scale: 1/4" = 1'-0"

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ENERGY RECOVERY VENTILATOR SCHEDULE	
DESIGNATION	ERV
MCA	40.0
MOCF	50.0
VOLTS/PHASE	460 / 3
FAN SECTION	
AIRFLOW (CFM)	6,500
TSP (" W.C.)	1.45
FAN BHP / HP	4.1 / 5
RPM	920
COOLING	
COOLING EADB/EAWB (°F)	105.0 / 72.0
COOLING LADB/LAWB (°F)	80.7 / 67.4
HEATING	
HEATING EADB/EAWB (°F)	28.0 / 23.5
HEATING LADB/LAWB (°F)	61.5 / 48.8
FILTERS	
FILTER QUANTITY/SIZE	(7) 16"x25"x2"
FILTER TYPE	CAM-FIL AP-13
FILTER FINAL PD (IN WC)	0.4
FILTER EFFICIENCY (MERV)	13
EXHAUST FAN	
AIRFLOW (CFM)	6,500
TSP (" W.C.)	1.39
FAN BHP/HP	4.3 / 5
RPM	920
COOLING EADB/EAWB (°F)	75.0 / 62.5
COOLING LADB/LAWB (°F)	99.1 / 70.5
HEATING	
HEATING EADB/EAWB (°F)	70.0 / 54.3
HEATING LADB/LAWB (°F)	35.9 / 30.7
FILTERS	
FILTER QUANTITY/SIZE	(7) 16"x25"x2"
FILTER TYPE	CAM-FIL AP-13
FILTER FINAL PD (IN WC)	0.4
FILTER EFFICIENCY (MERV)	13
MANUFACTURER	
TYPE	GREENHECK
MODEL NUMBER	90-30L
SERVICE	SHERIFF'S SUBST. 2 DATA ROOM OFFICE
OPER. WT. (LBS.)	3,220
ACCESSORIES	(1) (2)

- (1) OSA & EXH. SIDE CONN., OSA & EXH. DAMPERS, FAN VFD'S, DIRTY FILTER SENSOR, CURB, SMOKE DETECTOR IN SA & EA DUCT TO SHUT UNIT OFF ON ALARM AND SIGNAL FIRE ALARM (DIV. 16).
- (2) ENERGY WHEEL MOTOR IS 1/20 HP.

COMPUTER ROOM UNIT SCHEDULE	
DESIGNATION	CRU
VOLTS/PHASE	208 / 3
FLA	6.1
MAX FUSE SIZE	15
FAN SECTION	
CFM	2,100
ESP (IN WC)	0.75
MIN OSA	40
DRIVE	DIRECT
COOLING	
SENSIBLE (MBH)	43.0
TOTAL (MBH)	45.4
EADB/EAWB (°F)	75.5 / 63.0
REFRIGERANT	R-410A
HEATING	
CAPACITY (MBH)	-
KW	-
STAGES	-
HUMIDIFIER (LBS/HR)	
TYPE	-
QUANTITY/SIZE	(2) 20"x20"x4"
FILTERS	
TYPE	CAM-FIL
PD (IN WC)	0.35
EFFICIENCY (MERV)	8
MANUFACTURER	
TYPE	LIEBERT
MODEL NUMBER	MT048HE
OPER. WT. (LBS)	550
SERVICE	SHERIFF'S SUBST. 2 DATA ROOM
ACCESSORIES	(1)

- (1) EC FAN, CONDENSATE PUMP, FACTORY FLOAT SWITCH IN COND. PAN TO SHUT OFF UNIT ON OVERFLOW CONDITION, FACTORY FILTER BOX, SMOKE DETECTOR IN SA DUCT TO SHUT OFF ON ALARM AND SIGNAL FIRE ALARM (DIV. 28)

GRILLE SCHEDULE		
MARK	DUTY	DESCRIPTION
(A)	CEILING SUPPLY	TITUS TDC (TYPE 3) FULL LOUVER FACE, ROUND OR RECTANGULAR NECK DIFFUSER FOR STD. LAY-IN CEILING WITH NO. 26 WHITE FINISH, (18"x18" NECK, ADAPTER SIZE SHOWN)
(B)	CEILING SUPPLY	TITUS TDC (TYPE 1) LOUVER FACE SQUARE OR RECTANGULAR NECK DIFFUSER FOR SURFACE MOUNTING WITH O.B.D. AND NO. 26 WHITE FINISH.
(C)	CEILING SUPPLY	TITUS PAS (TYPE 3) PERFORATED FACE ROUND OR RECTANGULAR NECK DIFFUSER FOR STD. LAY-IN CEILING WITH FLAT BLACK INTERIOR AND NO. 26 WHITE FINISH.
(D)	WALL SUPPLY	TITUS MODEL 1707 REGISTER WITH REMOVABLE CORE, 5 DEGREE UPWARD DEFLECTION AND NO. 26 WHITE FINISH.
(E)	CEILING RETURN OR EXHAUST	TITUS CORE 50F (TYPE 3) ALUMINUM EGG CRATE REGISTER WITH 1/2"x1/2" GRID FOR STD. LAY-IN CEILING WITH NO. 26 WHITE FINISH.
(F)	CEILING RETURN OR EXHAUST	TITUS CORE 50F (TYPE 1) ALUMINUM EGG CRATE REGISTER WITH 1/2"x1/2" GRID FOR SURFACE MOUNTING WITH O.B.D. AND NO. 26 WHITE FINISH.
(G)	WALL RETURN OR EXHAUST	TITUS MODEL 350RL STEEL RETURN GRILLE WITH 35° DEFLECTION BLADES AT 3/4" SPACING AND NO. 26 WHITE FINISH.

INDOOR UNIT SCHEDULE												
DESIGNATION	IDU 1	IDU 2	IDU 3	IDU 4	IDU 5	IDU 6	IDU 7	IDU 8	IDU 9	IDU 10	IDU 11	IDU 12
CFM	300	300	370	490	600	880	880	880	1160	1410	1480	
ESP (IN WC)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
MIN OSA (1)	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	
HP/AMPS	- / 0.6	- / 0.6	- / 0.7	- / 0.7	- / 0.8	- / 1.3	- / 1.3	- / 1.3	- / 1.3	- / 1.5	- / 2.1	- / 2.2
VOLTS/PHASE	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1
RPM	HIGH SPEED	HIGH SPEED	HIGH SPEED	HIGH SPEED	HIGH SPEED	HIGH SPEED	HIGH SPEED	HIGH SPEED	HIGH SPEED	HIGH SPEED	HIGH SPEED	HIGH SPEED
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
COOLING												
SENSIBLE (MBH)	5.5	6.1	8.0	11.1	13.2	18.5	19.4	20.2	26.9	34.6	36.4	
TOTAL (MBH)	5.5	7.1	11.0	14.2	16.6	22.1	24.4	26.6	33.1	45.5	47.9	
EADB/EAWB (°F)	76 / 63	76 / 63	76 / 63	76 / 63	76 / 63	76 / 63	76 / 63	76 / 63	76 / 63	76 / 63	76 / 63	
REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	
HEATING												
CAPACITY (MBH)	4.7	6.1	9.6	12.4	14.2	19.1	21.1	23.1	28.3	39.5	40.8	
KW	-	-	-	-	-	-	-	-	-	-	-	
STAGES	-	-	-	-	-	-	-	-	-	-	-	
FILTERS												
QUANTITY/SIZE	(1) 14"x25"x2"	(1) 14"x25"x2"	(1) 14"x25"x2"	(1) 14"x20"x2"	(1) 14"x20"x2"	(2) 14"x20"x2"	(2) 14"x20"x2"	(2) 14"x20"x2"	(2) 14"x20"x2"	(2) 14"x20"x2"	(2) 14"x20"x2"	(3) 14"x20"x2"
TYPE	CAMFIL AP-13	CAMFIL AP-13	CAMFIL AP-13	CAMFIL AP-13	CAMFIL AP-13	CAMFIL AP-13	CAMFIL AP-13	CAMFIL AP-13	CAMFIL AP-13	CAMFIL AP-13	CAMFIL AP-13	CAMFIL AP-13
PD (IN WC)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
MERV	13	13	13	13	13	13	13	13	13	13	13	
MANUFACTURER												
TYPE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL NUMBER	VRV - INDOOR	VRV - INDOOR	VRV - INDOOR	VRV - INDOOR	VRV - INDOOR	VRV - INDOOR	VRV - INDOOR	VRV - INDOOR	VRV - INDOOR	VRV - INDOOR	VRV - INDOOR	VRV - INDOOR
SERVICE	PEFY-P08NMAU-E2	PEFY-P08NMAU-E2	PEFY-P12NMAU-E2	PEFY-P15NMAU-E2	PEFY-P18NMAU-E2	PEFY-P24NMAU-E2	PEFY-P27NMAU-E2	PEFY-P30NMAU-E2	PEFY-P36NMAU-E2	PEFY-P48NMAU-E2	PEFY-P54NMAU-E2	PEFY-P54NMAU-E2
OPER WT (LBS)	80	80	80	95	95	110	110	110	140	140	150	
ACCESSORIES	(2) (3)	(2) (3)	(2) (3)	(2) (3)	(2) (3)	(2) (3)	(2) (3)	(2) (3)	(2) (3)	(2) (3)	(2) (3)	(2) (3)

- (1) OSA IS PRECONDITIONED BY ERV.
- (2) WIRED REMOTE CONTROLLER, CONDENSATE PUMP, FIELD FABRICATED FILTER BOX.
- (3) MOISTURE SENSOR IN UNIT SHUTS OFF UNIT ON COND. PAN OVERFLOW AND SIGNALS AN ALARM TO THE CENTRAL CONTROLLER.

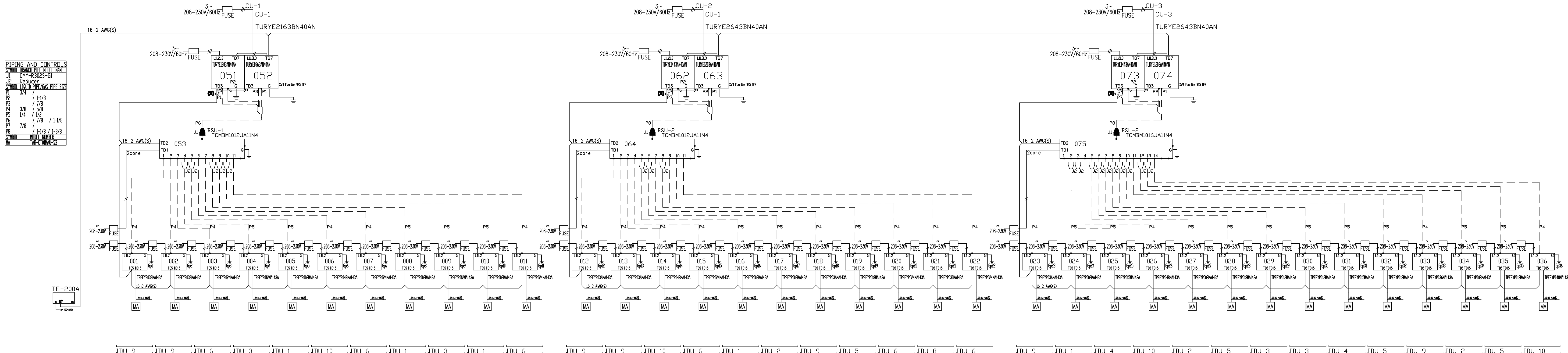
CONDENSING UNIT SCHEDULE			
DESIGNATION	CU 1	CU 2	CU 3
MCA (1)	19.0 / 14.0	22.0 / 19.0	22.0 / 19.0
VOLTS/PHASE	460 / 3	460 / 3	460 / 3
MAX. COOLING CAP. (MBH)	216.0	264.0	264.0
MAX. HEATING CAP. (MBH)	243.0	295.0	295.0
AMBIENT - CLG. HTG. (°F)	105 / 30	105 / 30	105 / 30
EER / COP AT ARI	12.2 / 3.56	11.5 / 3.36	11.5 / 3.36
REFRIGERANT	R-410A	R-410A	R-410A
MANUFACTURER			
TYPE	HEAT RECOV.	HEAT RECOV.	HEAT RECOV.
MODEL NUMBER	TURYE2164BN	TURYE2644BN	TURYE2644BN
SERVICE	SHERIFF'S SUBST. 2 NORTH SECTION	SHERIFF'S SUBST. 2 CENTRAL SECTION	SHERIFF'S SUBST. 2 SOUTH SECTION
OPER WT (LBS)	720 / 710	790 / 720	790 / 720
ACCESSORIES	(2)	(3)	(3)

- (1) COMBINATIONS OF UNITS HAVE MODULES W/ SEPARATE POWER CONN., WEIGHT AND MOUNTING.
- (2) COMBINATION OF (1) - TURYE1204AN, (1) - TURYE0964AN.
- (3) COMBINATION OF (1) - TURYE1444AN, (1) - TURYE1204AN.

BRANCH SELECTOR UNIT SCHEDULE		
DESIGNATION	BSU 1	BSU 2
NAMEPLATE AMPS	1.3	1.4
VOLTS/PHASE	208-230 / 1	208-230 / 1
MAX. COOLING CAP. (MBH)	32	32
NO. OF IDU PER BRANCH	12	16
MAX. BRANCH CLG. CAP. (TONS)	4.5	4.5
REFRIGERANT	R-410A	R-410A
MANUFACTURER		
TYPE	TRANE	TRANE
MODEL NUMBER	TMBG1012	TMBG1016
SERVICE	SEE PLAN	SEE PLAN
OPER WT (LBS)	120	150
ACCESSORIES	(1)	(1)

- (1) COND. PUMP, ISOLATION VALVES FOR MAIN REFRIG. PIPE AND EACH BRANCH PIPE.

CONDENSER SCHEDULE	
DESIGNATION	C
NAMEPLATE AMPS	23.4
VOLTS/PHASE	208 / 3
COOLING CAP (MBH)	45.4
AMBIENT (°F)	105
SCOP AT ARI	2.1
REFRIGERANT	R-410A
MANUFACTURER	
TYPE	LIEBERT
MODEL NUMBER	PF004A-L
SERVICE	SEE PLAN
OPER WT (LBS)	390
ACCESSORIES	SEE SPECS



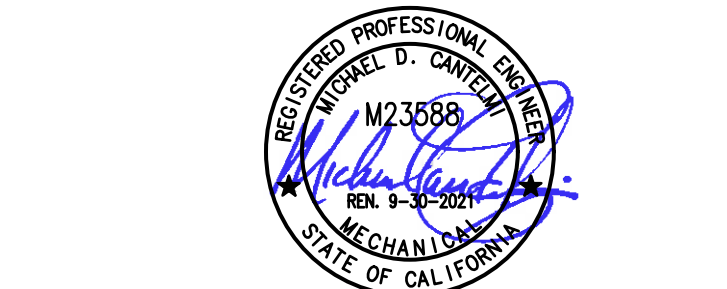
VRV SYSTEM WIRING DIAGRAM

SCALE: NONE

MECHANICAL SCHEDULES

Scale: NTS

A
M2.1



LAWRENCE ENGINEERING GROUP
 7084 N. Maple Ave., Suite 101 Fresno, CA 93720
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Project:
 Sheriff Area 2 Sub-Station
 1122N N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 10.10.2019
 PROJECT NO: 780293 / 19003
 FILE NAME:

Sheet Content:
 MECHANICAL SCHEDULES

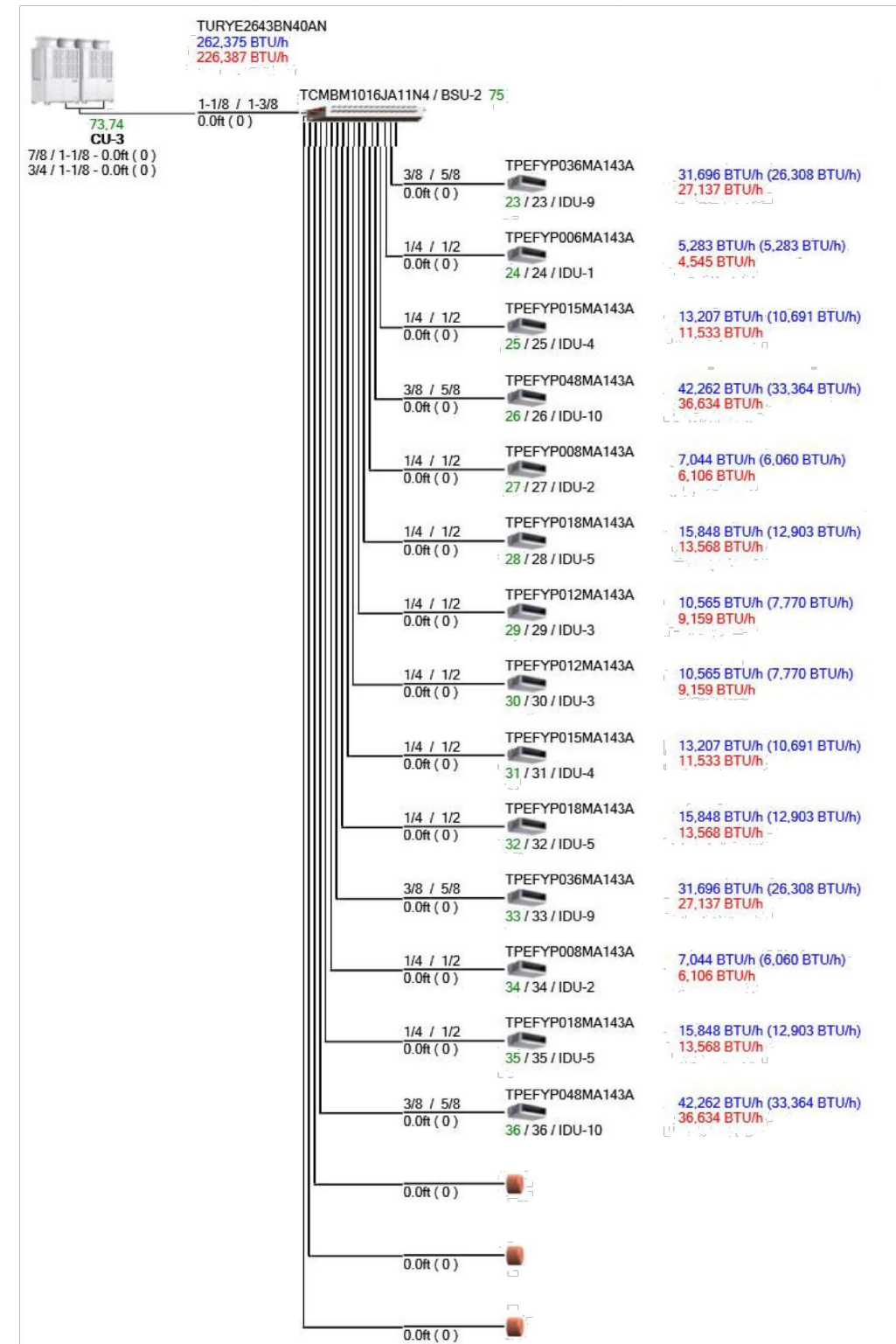
Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
M2.1

CU-2 SYSTEM PIPING DIAGRAM

SCALE: NONE

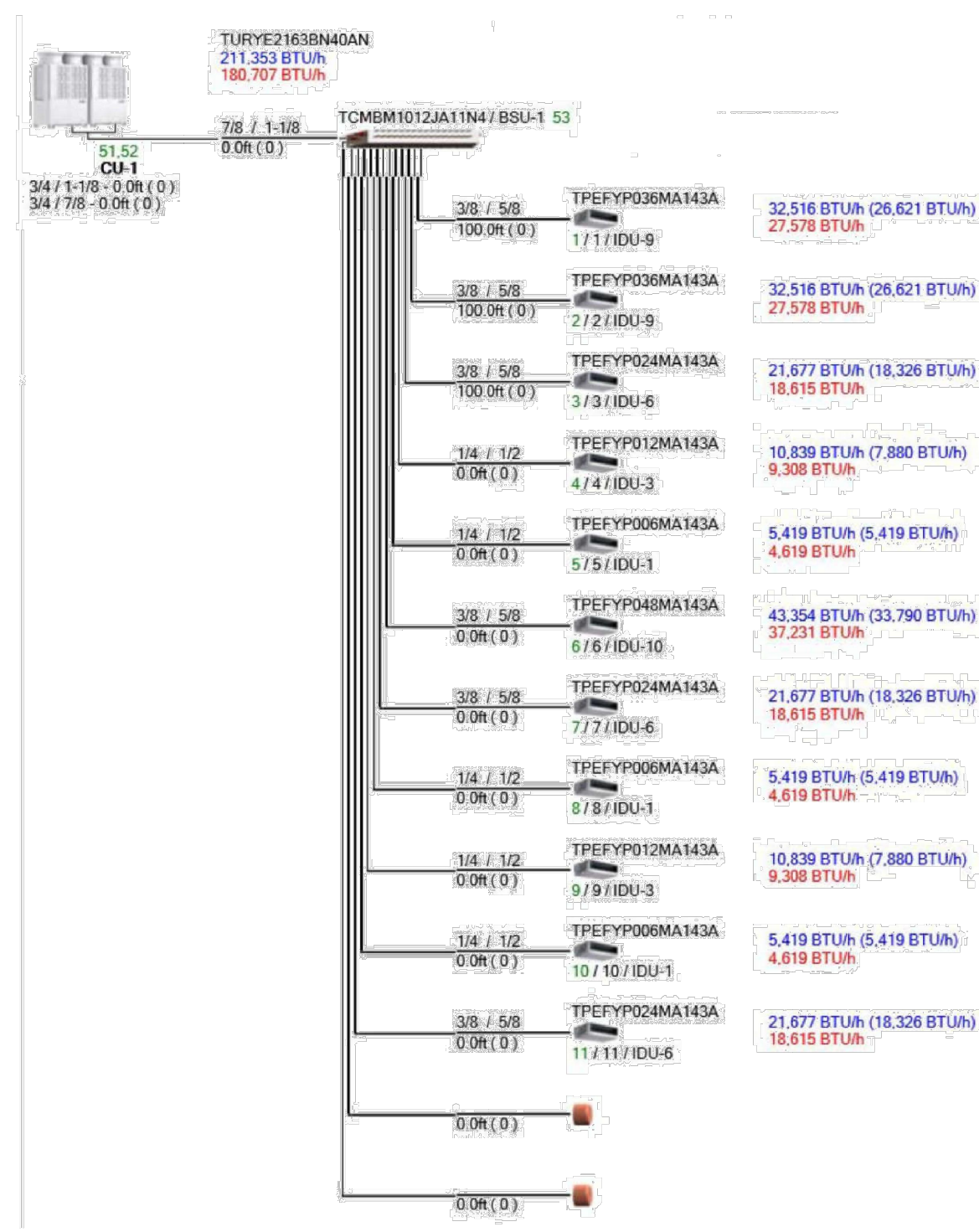
O
M3.1



CU-3 SYSTEM PIPING DIAGRAM

SCALE: NONE

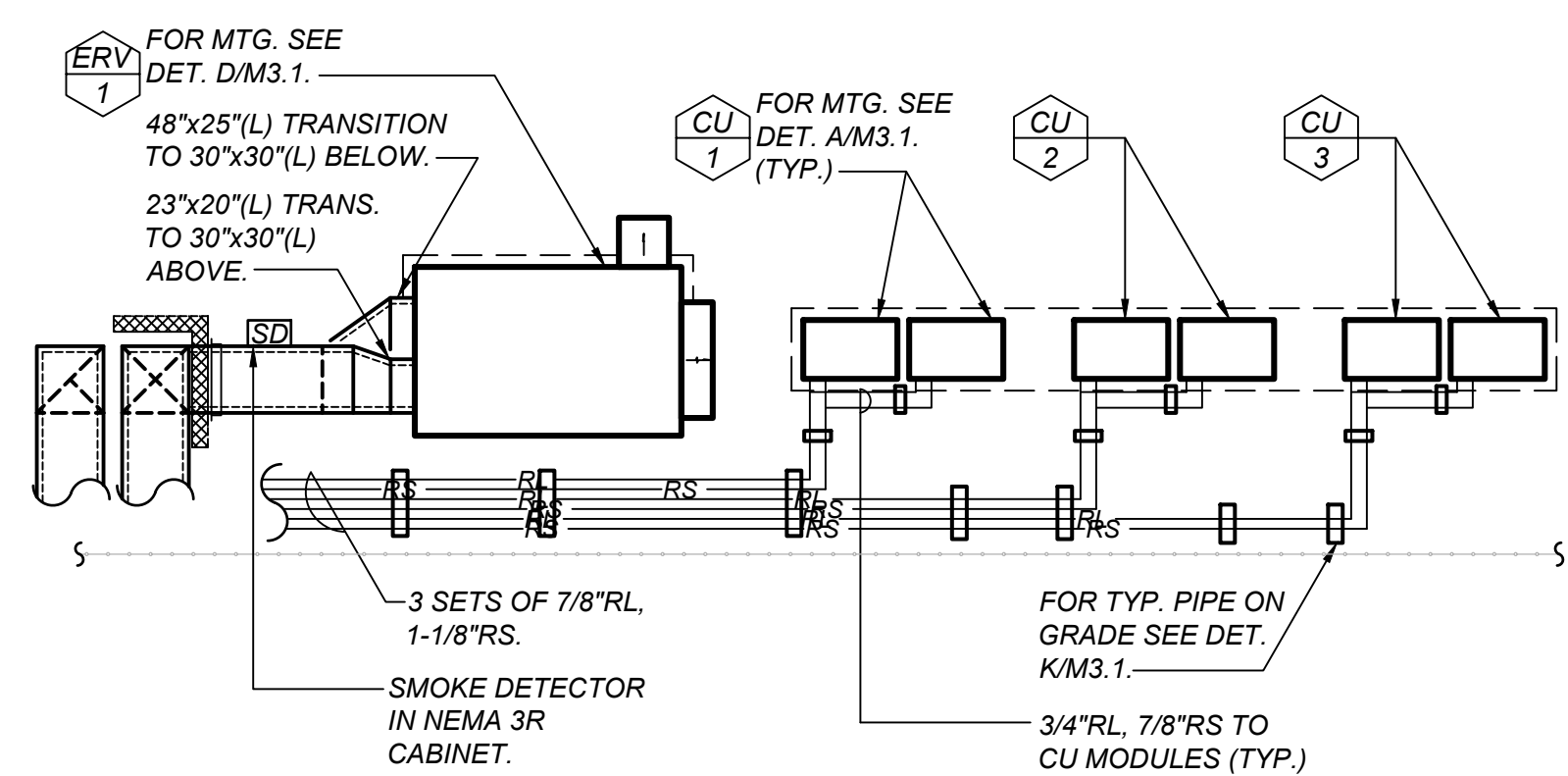
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CU-1 SYSTEM PIPING DIAGRAM

SCALE: NONE

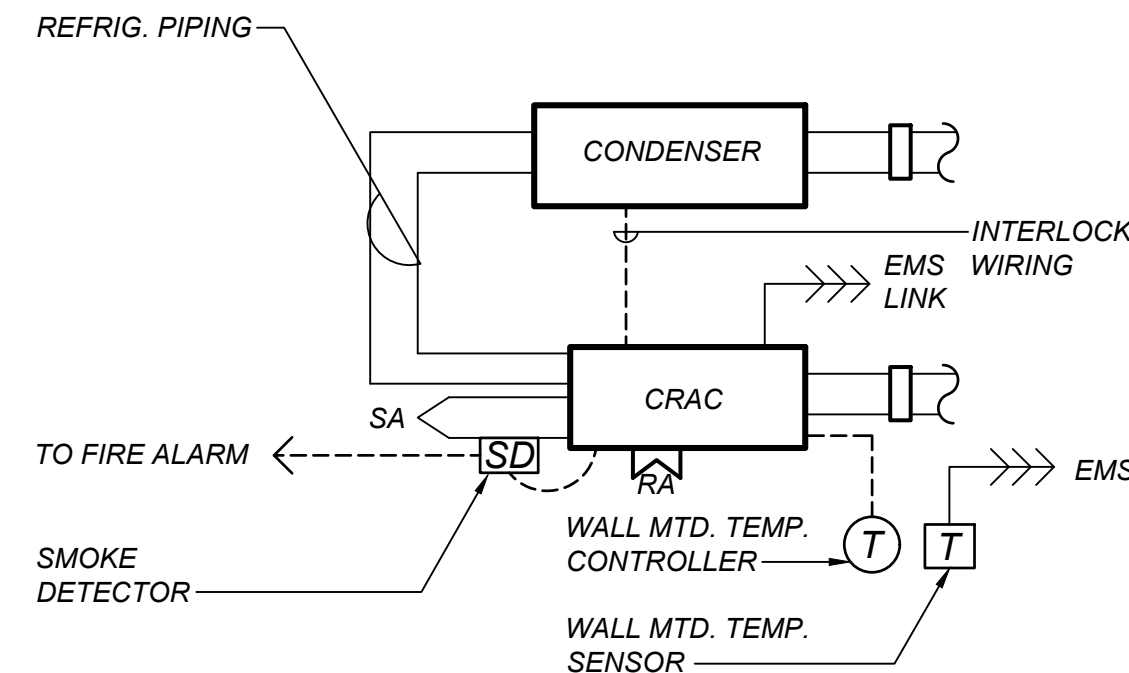
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M3.1



MECH. YARD PLAN

SCALE: 1/8" = 1'-0"

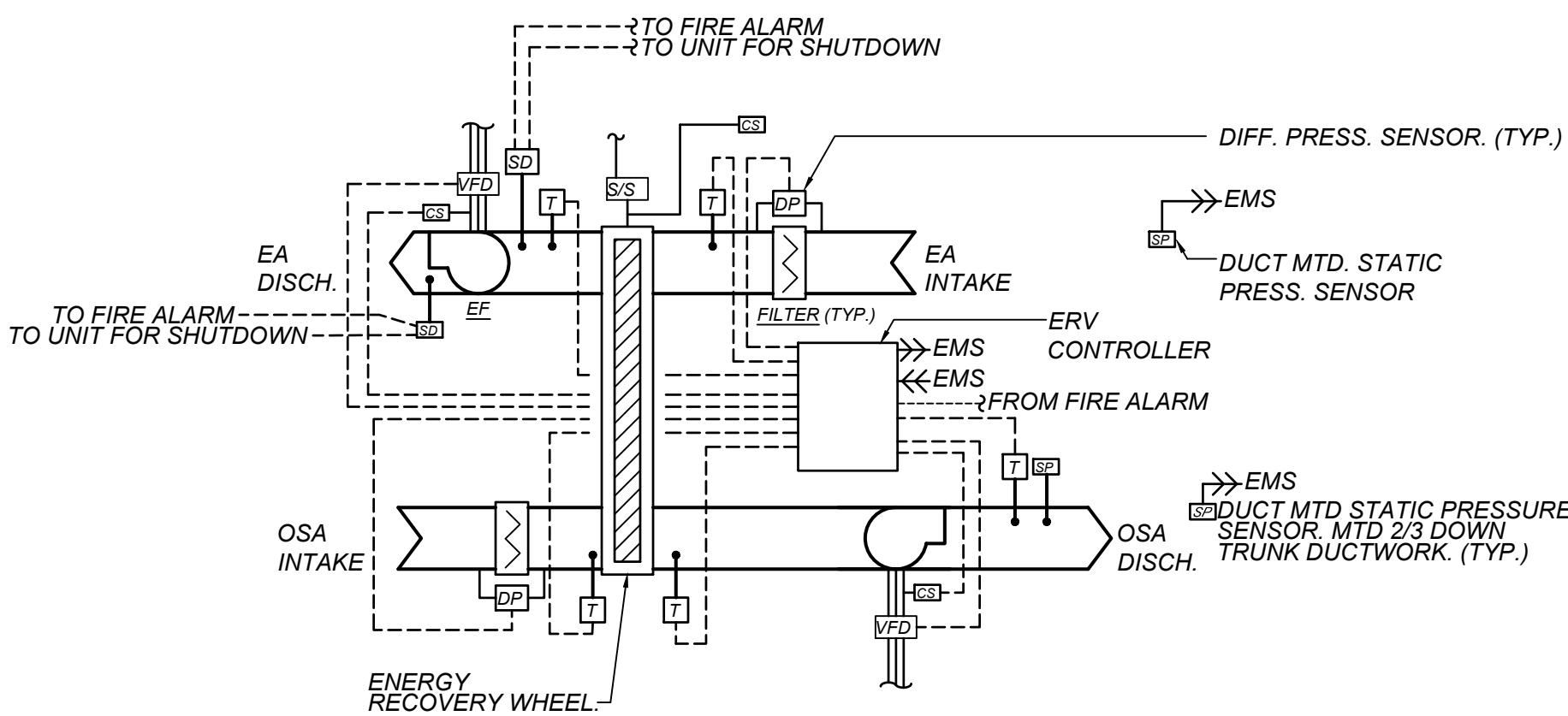
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M3.1



CRAC SYSTEM DIAGRAM

SCALE: NONE

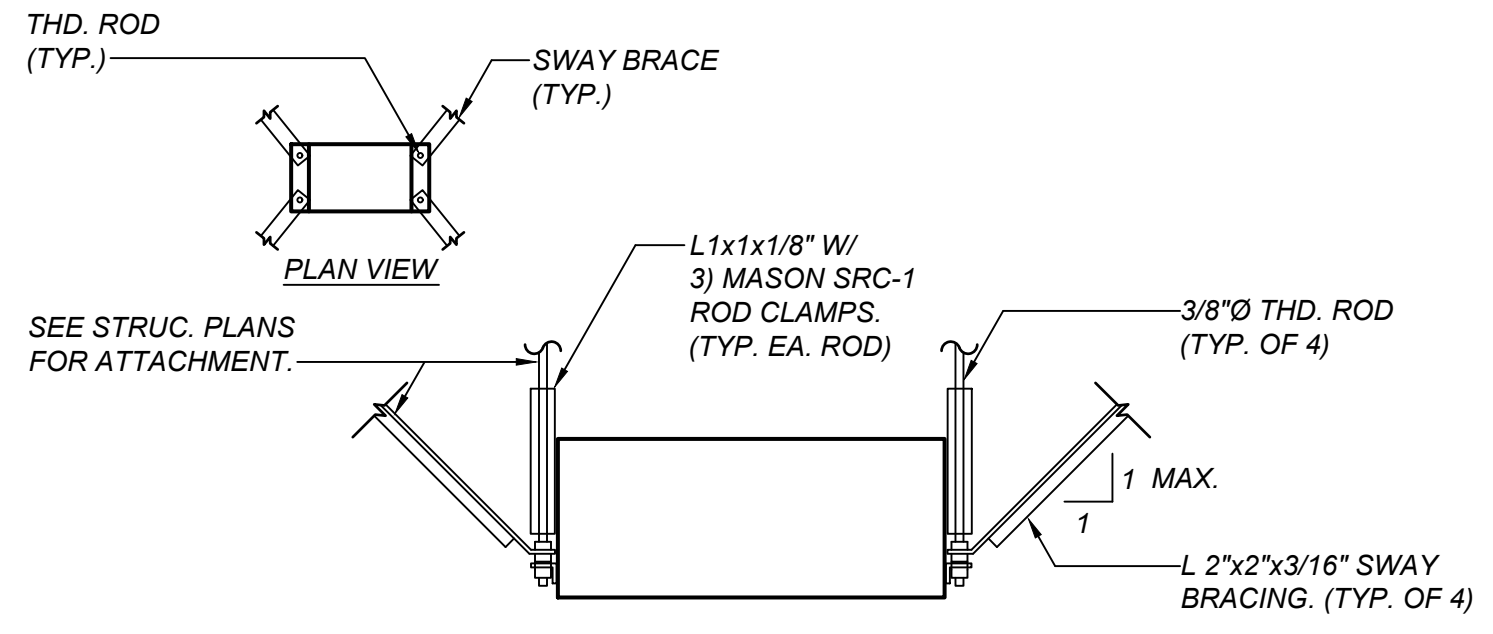
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ENERGY RECOVERY VENTILATOR DIAGRAM

SCALE: NONE

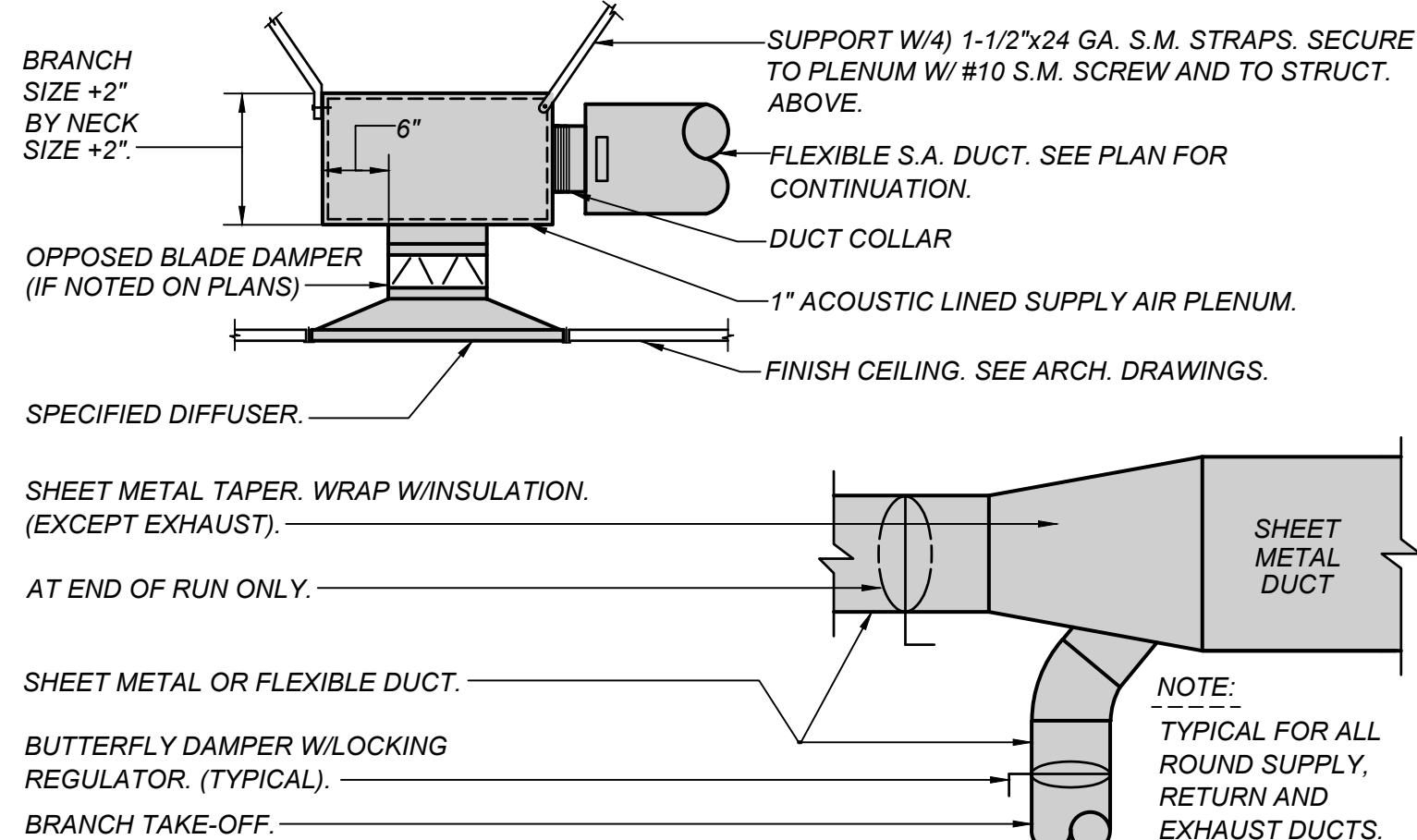
M
M3.1



CRAC UNIT MOUNTING DETAIL

SCALE: NONE

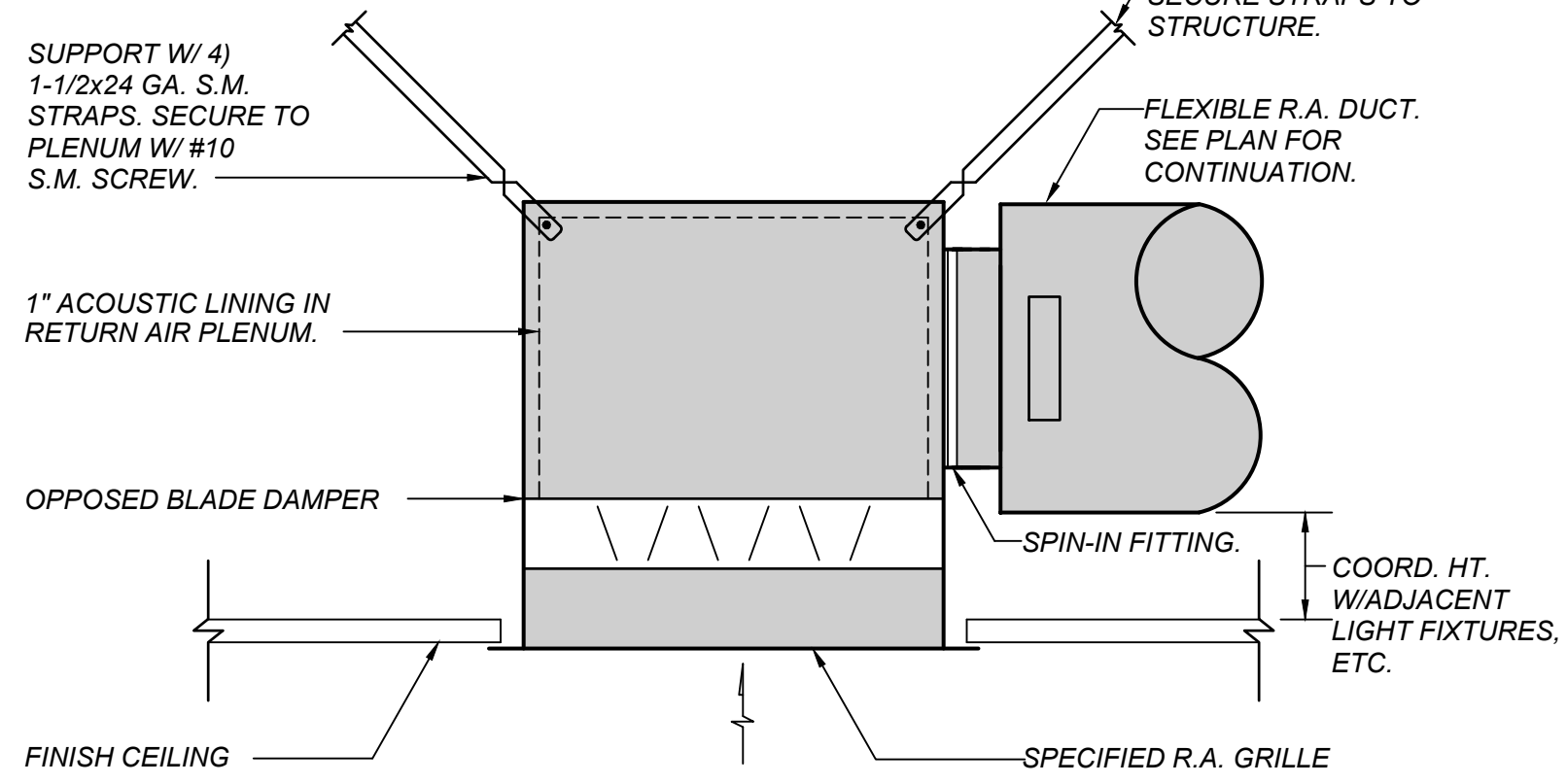
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M3.1



TYPICAL S.A. DEVICE-BRANCH DUCT DETAIL

SCALE: NONE

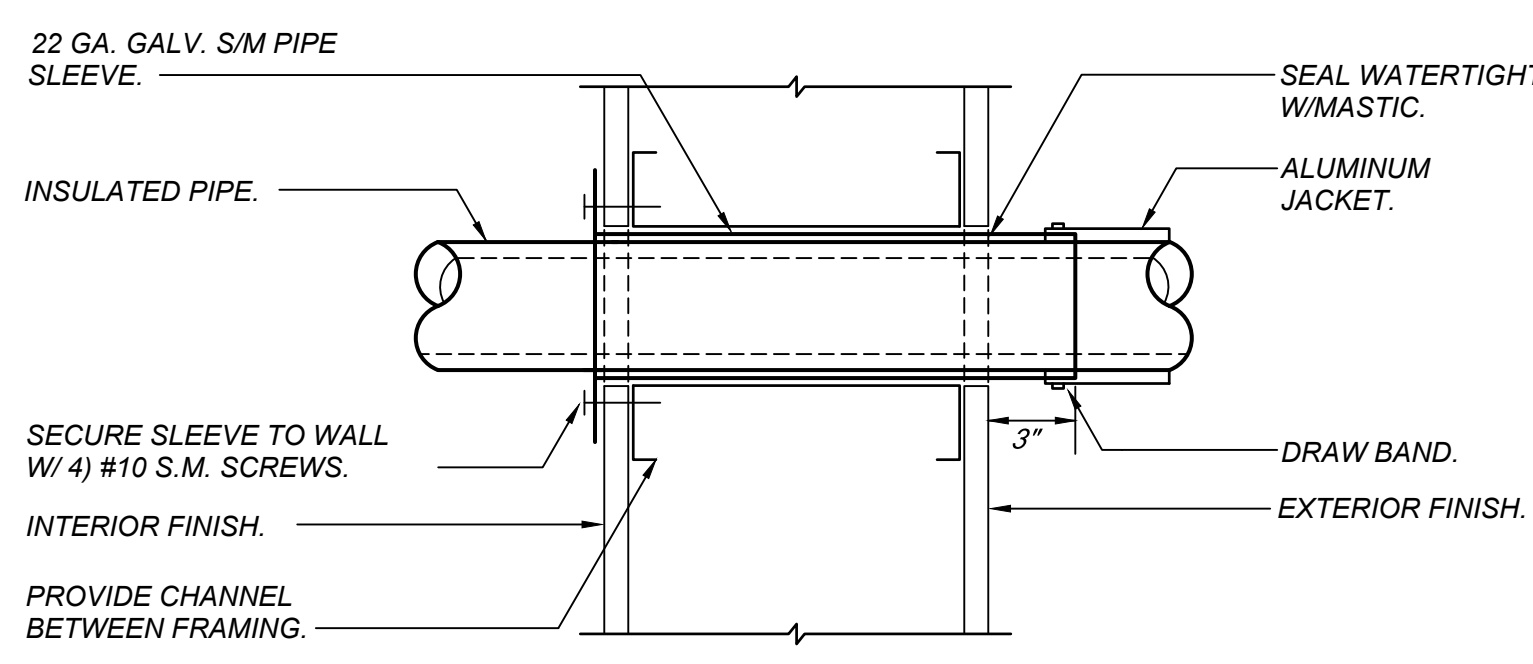
G
M3.1



RETURN GRILLE DETAIL

SCALE: NONE

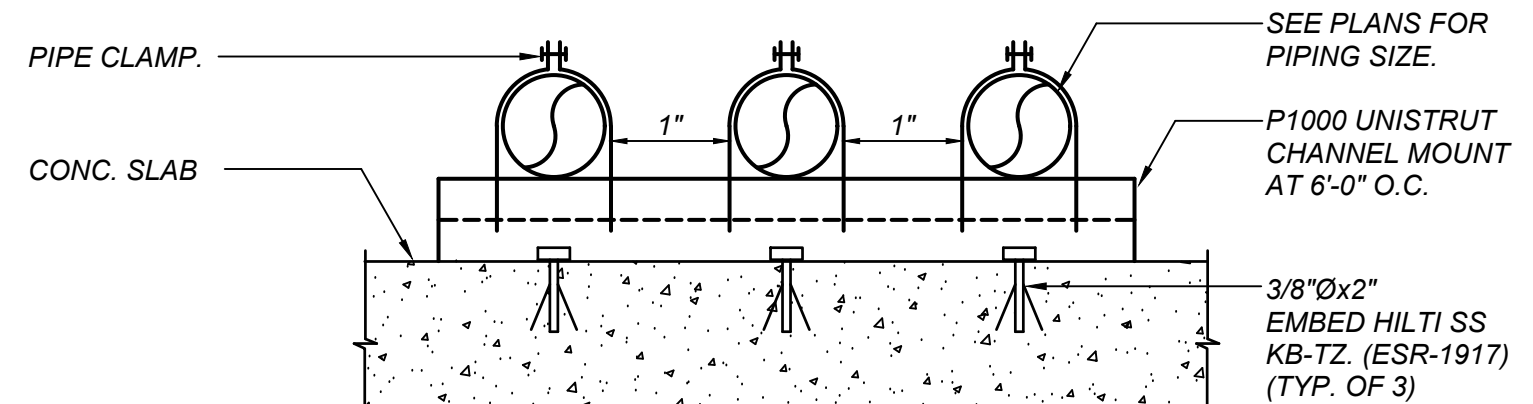
H
M3.1



PIPE THRU EXTERIOR WALL DETAIL

SCALE: NONE

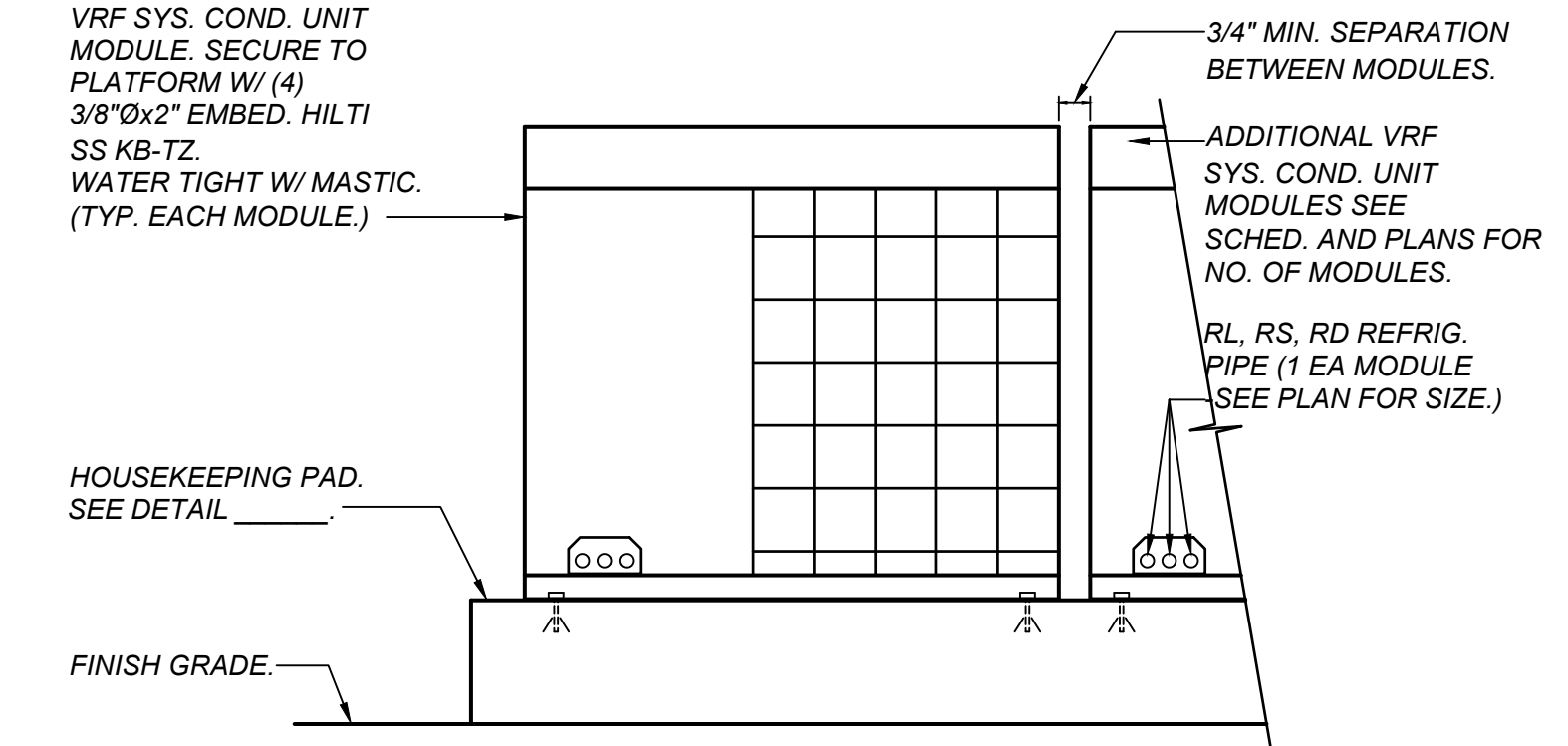
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M3.1



PIPE SUPPORT ON GRADE DETAIL

SCALE: NONE

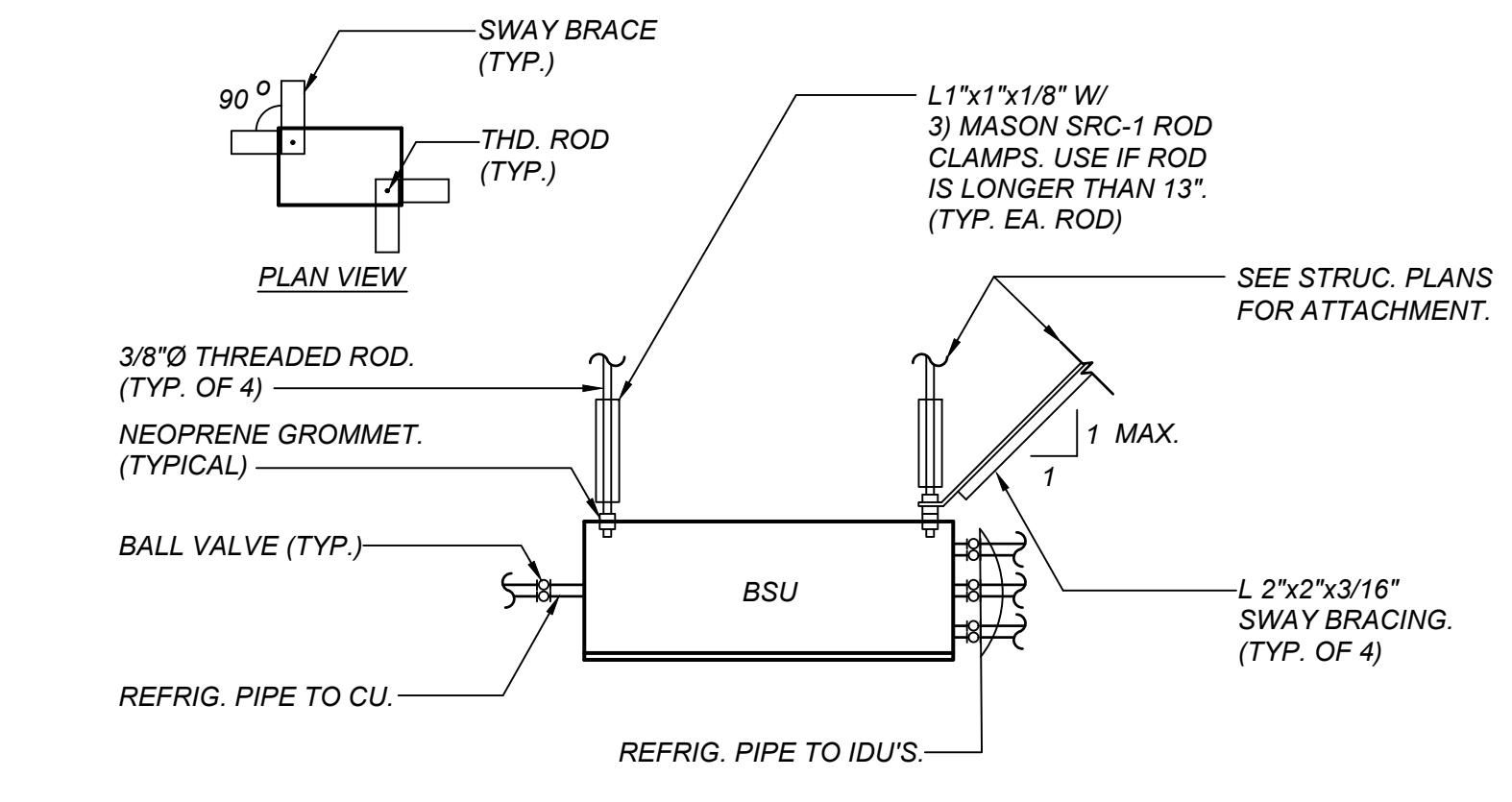
J
M3.1



CONDENSING UNIT MOUNTING DETAIL

SCALE: NONE

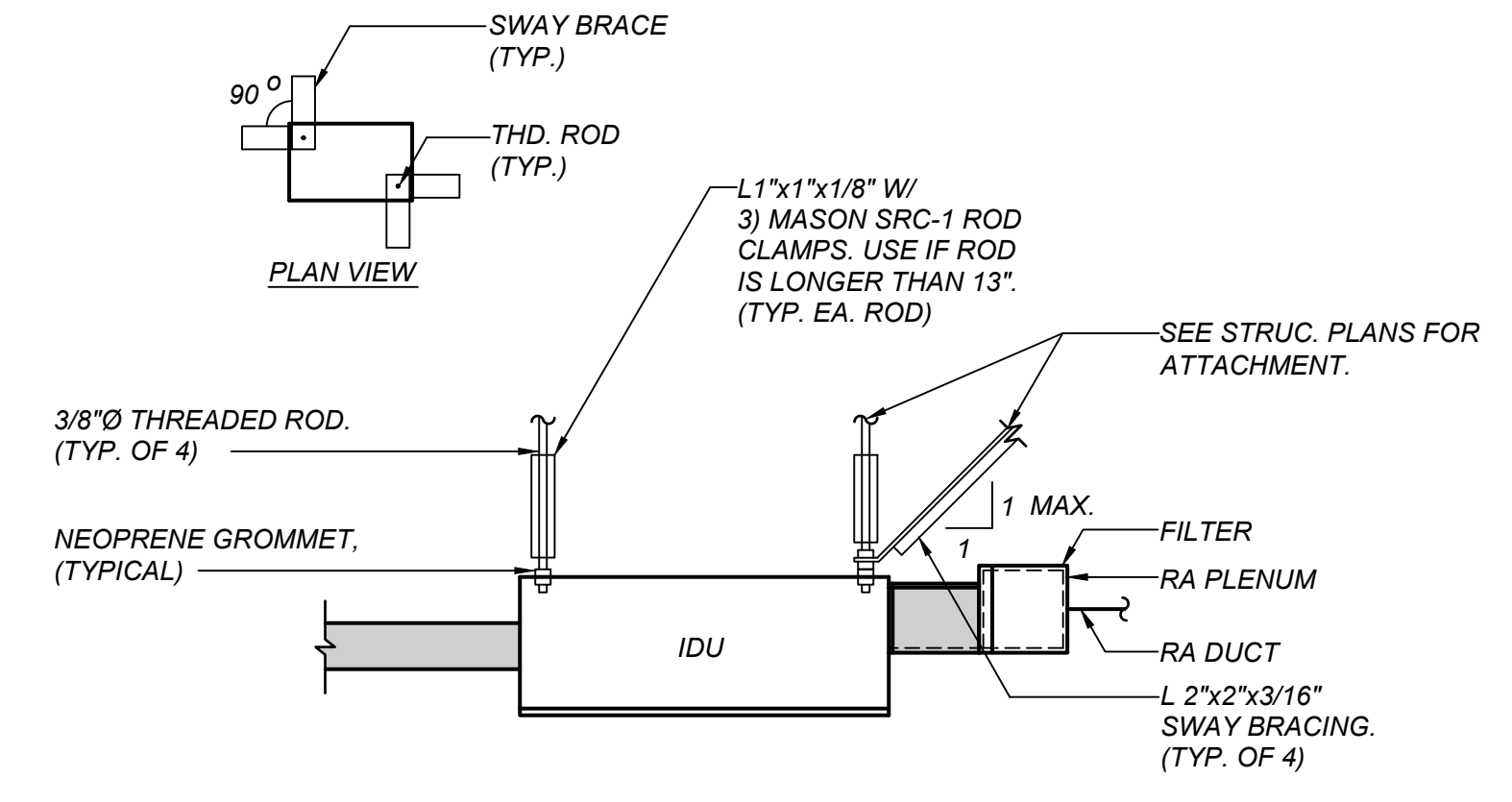
A
M3.1



BSU MOUNTING DETAIL

SCALE: NONE

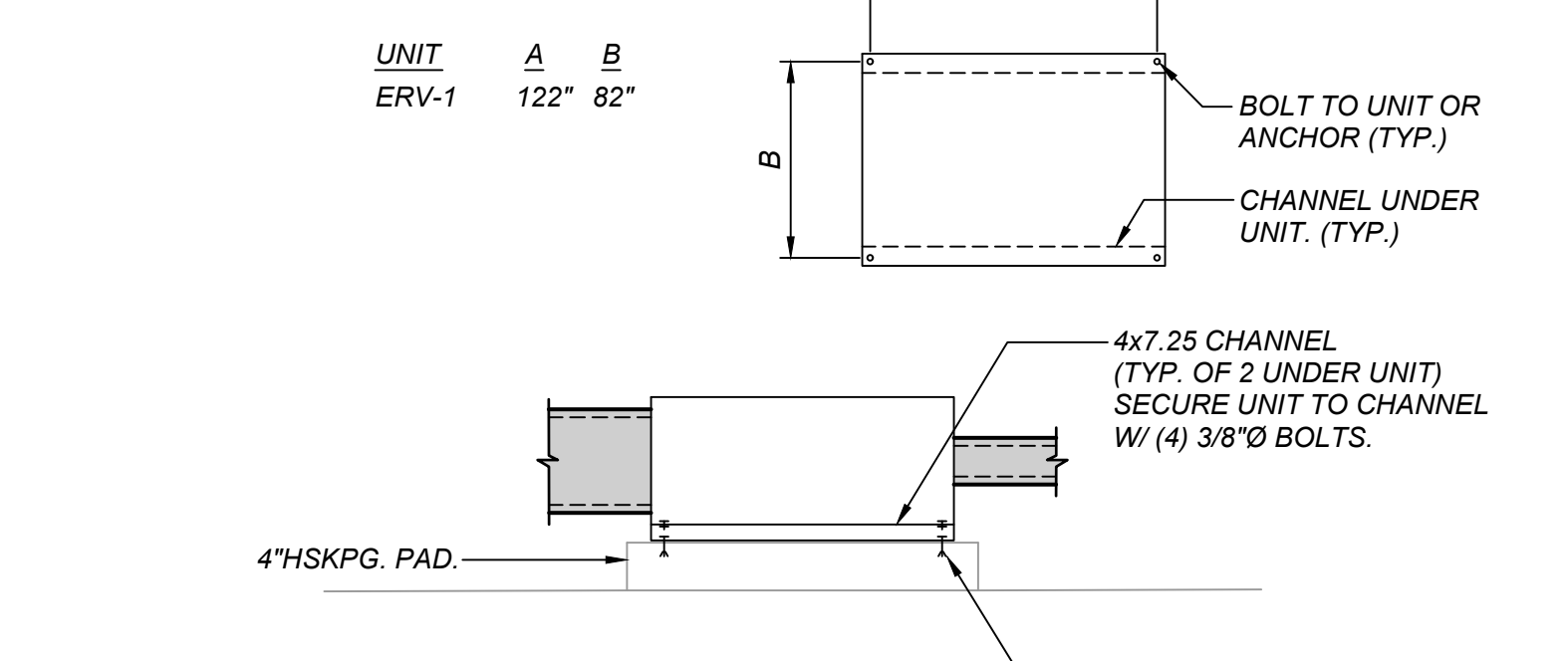
B
M3.1



INDOOR UNIT MOUNTING DETAIL

SCALE: NONE

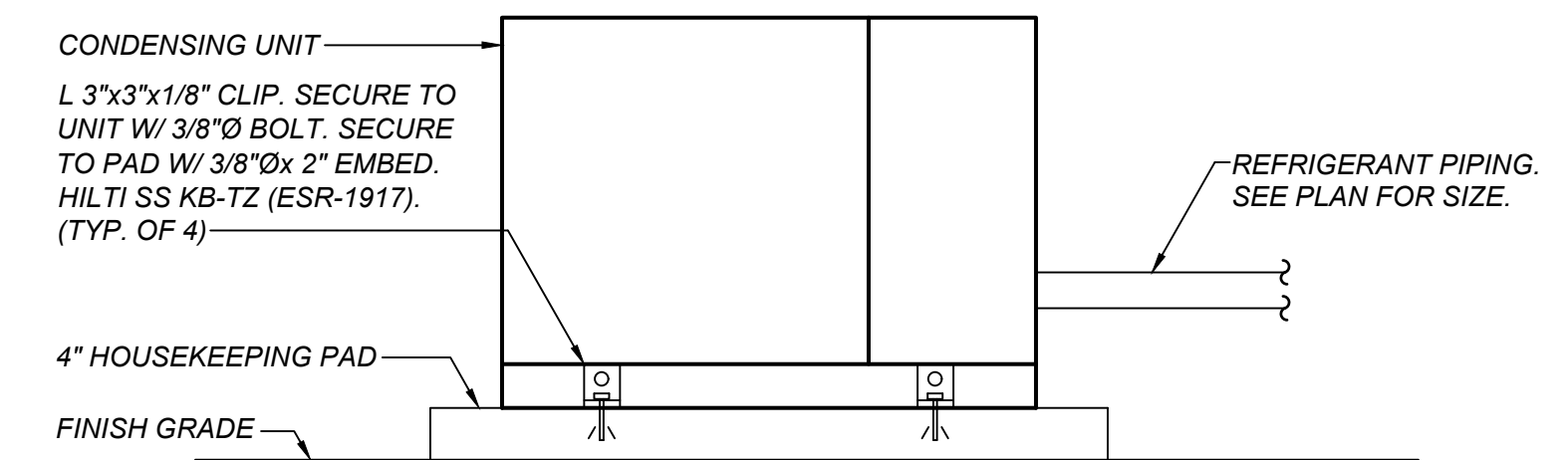
C
M3.1



ERV MOUNTING DETAIL

SCALE: NONE

D
M3.1



CONDENSER MOUNTING DETAIL

SCALE: NONE

E
M3.1



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ARCHITECT
Neil Roger Davidson, A.I.A., Architect
California Licensed Architect No. C-27818
Ren. 10-31-2019
Fresno County Department of Public Works
Capital Projects
2220 Tulare Street, Eighth Floor
Fresno, California 93721
Telephone: (559) 600-4477
Email: nrdavidson@co.fresno.ca.us

Project:
Sheriff Area 2 Sub-Station
11229 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 10.10.2019
PROJECT NO: 180293 / 19003
FILE NAME:

Sheet Content:
MECHANICAL DETAILS

Fresno County Department of Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
M3.1

1 June 2020 2:41 PM P:\2019\19280 Fresno County Sheriff Area 2 Substation\4 - Drawings\4 - Mechanical\4 - MECH\DETAIL\M3.1 - Office\Drawing.mxd

Project Name: Sheriff Substation															NRCC-PRF-01-E			Page 15 of 50		
Project Address: 1129 N. Armstrong Ave. Fresno 93727															Calculation Date/Time: 13:18, Fri, May 01, 2020					
Compliance Scope: NewEnvelopeAndMechanical															Input File Name: 19280 Sheriff Substation V7_05.01.2020-Anthony_k_cib16x					
Wet System Equipment 1															Pump			Confirmed		
12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.								
Equip Name	Equip Type	Qty	Vol (gal)	Rated Capacity (kWh/yr)	Efficiency	Standby Loss	Efficiency	Standby Loss	Efficiency	Standby Loss	Efficiency	Standby Loss	Reqd	Met	Reqd	Met				
EW11 - BRADFORD WHITE E32	Storage	1	80.00	61	Thrmf. Eff.: 1.00	58%	0.065	NA	NA	NA	NA	NA	N							

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583 Report Generated at: 2020-05-01 13:23:59

Project Name: Sheriff Substation															NRCC-PRF-01-E			Page 19 of 50		
Project Address: 1129 N. Armstrong Ave. Fresno 93727															Calculation Date/Time: 13:18, Fri, May 01, 2020					
Compliance Scope: NewEnvelopeAndMechanical															Input File Name: 19280 Sheriff Substation V7_05.01.2020-Anthony_k_cib16x					
N. ECONOMIZER & FAN SYSTEMS SUMMARY*															§ 140.4			Confirmed		
1.	2.	3.					4.					5.								
Equip Name	Equip Type	CFM	HP	BHP	TSP (Inch WC)	Control	CFM	HP	BHP	TSP (Inch WC)	Control	Economizer Type (if present)	Reqd	Met	Reqd	Met				
21 - Public Waiting Area	SZHP	230	1410	0.264	0.264	0.59	ConstantVolume	NA	NA	NA	NA	NA	NA							

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583 Report Generated at: 2020-05-01 13:23:59

Project Name: Sheriff Substation															NRCC-PRF-01-E			Page 22 of 50		
Project Address: 1129 N. Armstrong Ave. Fresno 93727															Calculation Date/Time: 13:18, Fri, May 01, 2020					
Compliance Scope: NewEnvelopeAndMechanical															Input File Name: 19280 Sheriff Substation V7_05.01.2020-Anthony_k_cib16x					
O. EQUIPMENT CONTROLS															§ 120.2			Confirmed		
1.	2.	3.					4.					5.								
Equip Name	Equip Type	CFM	HP	BHP	TSP (Inch WC)	Control	CFM	HP	BHP	TSP (Inch WC)	Control	Economizer Type (if present)	Reqd	Met	Reqd	Met				
225 - Office 159	SZHP	139	490	0.070	0.070	0.45	ConstantVolume	NA	NA	NA	NA	NA	NA							

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Project Name: Sheriff Substation															NRCC-PRF-01-E			Page 18 of 50		
Project Address: 1129 N. Armstrong Ave. Fresno 93727															Calculation Date/Time: 13:18, Fri, May 01, 2020					
Compliance Scope: NewEnvelopeAndMechanical															Input File Name: 19280 Sheriff Substation V7_05.01.2020-Anthony_k_cib16x					
M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information)															§ 110.1 / § 110.2			Confirmed		
Dry System Equipment 1 (Fan & Economizer info included below in Table N)																				
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.										
Equip Name	Equip Type	System Type (Simple 1 or Complex 2)	Qty	Total Heating Output (kBtu/yr)	Supp Heat Source (Y/N)	Supp Heat Output (kBtu/yr)	Total Cooling Output (kBtu/yr)	Efficiency	Acceptance Testing Required? (Y/N) 4	Control	Reqd	Met	Reqd	Met	Reqd	Met				
237 - Secure Training Rec	SZHP (SplitPhase)	Simple	1	6	No	0	7	SEER: 14.000 / EER-12.200	HSFP-8.200	Yes	N									

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583 Report Generated at: 2020-05-01 13:23:59

Project Name: Sheriff Substation															NRCC-PRF-01-E			Page 18 of 50		
Project Address: 1129 N. Armstrong Ave. Fresno 93727															Calculation Date/Time: 13:18, Fri, May 01, 2020					
Compliance Scope: NewEnvelopeAndMechanical															Input File Name: 19280 Sheriff Substation V7_05.01.2020-Anthony_k_cib16x					
N. ECONOMIZER & FAN SYSTEMS SUMMARY*															§ 140.4			Confirmed		
1.	2.	3.					4.					5.								
Equip Name	Equip Type	CFM	HP	BHP	TSP (Inch WC)	Control	CFM	HP	BHP	TSP (Inch WC)	Control	Economizer Type (if present)	Reqd	Met	Reqd	Met				
24 - Public Conference Ro	SZHP					No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 370 W)						NA								

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583 Report Generated at: 2020-05-01 13:23:59

Project Name: Sheriff Substation															NRCC-PRF-01-E			Page 20 of 50		
Project Address: 1129 N. Armstrong Ave. Fresno 93727															Calculation Date/Time: 13:18, Fri, May 01, 2020					
Compliance Scope: NewEnvelopeAndMechanical															Input File Name: 19280 Sheriff Substation V7_05.01.2020-Anthony_k_cib16x					
O. EQUIPMENT CONTROLS															§ 120.2			Confirmed		
1.	2.	3.					4.					5.								
Equip Name	Equip Type	CFM	HP	BHP	TSP (Inch WC)	Control	CFM	HP	BHP	TSP (Inch WC)	Control	Economizer Type (if present)	Reqd	Met	Reqd	Met				
28 - Physical Training@3	Exhaust					No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 110 W)						NA								

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583 Report Generated at: 2020-05-01 13:23:59

Project Name: Sheriff Substation															NRCC-PRF-01-E			Page 17 of 50		
Project Address: 1129 N. Armstrong Ave. Fresno 93727															Calculation Date/Time: 13:18, Fri, May 01, 2020					
Compliance Scope: NewEnvelopeAndMechanical															Input File Name: 19280 Sheriff Substation V7_05.01.2020-Anthony_k_cib16x					
M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information)															§ 110.1 / § 110.2			Confirmed		
Dry System Equipment 1 (Fan & Economizer info included below in Table N)																				
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.										
Equip Name	Equip Type	System Type (Simple 1 or Complex 2)	Qty	Total Heating Output (kBtu/yr)	Supp Heat Source (Y/N)	Supp Heat Output (kBtu/yr)	Total Cooling Output (kBtu/yr)	Efficiency	Acceptance Testing Required? (Y/N) 4	Control	Reqd	Met	Reqd	Met	Reqd	Met				
231 - Supply & Training S29	Exhaust (I)	Simple	1	0	No	0	0	NA	NA	NA	N									

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583 Report Generated at: 2020-05-01 13:23:59

Project Name: Sheriff Substation															NRCC-PRF-01-E			Page 17 of 50		
Project Address: 1129 N. Armstrong Ave. Fresno 93727															Calculation Date/Time: 13:18, Fri, May 01, 2020					
Compliance Scope: NewEnvelopeAndMechanical															Input File Name: 19280 Sheriff Substation V7_05.01.2020-Anthony_k_cib16x					
N. ECONOMIZER & FAN SYSTEMS SUMMARY*															§ 140.4			Confirmed		
1.	2.	3.					4.					5.								
Equip Name	Equip Type	CFM	HP	BHP	TSP (Inch WC)	Control	CFM	HP	BHP	TSP (Inch WC)	Control	Economizer Type (if present)	Reqd	Met	Reqd	Met				
230 - Workstation A	SZHP	214	1410	0.264	0.264	0.59	ConstantVolume	NA	NA	NA	NA	NA	NA							

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Project Name: Sheriff Substation															NRCC-PRF-01-E			Page 20 of 50		
Project Address: 1129 N. Armstrong Ave. Fresno 93727															Calculation Date/Time: 13:18, Fri, May 01, 2020					
Compliance Scope: NewEnvelopeAndMechanical															Input File Name: 19280 Sheriff Substation V7_05.01.2020-Anthony_k_cib16x					
O. EQUIPMENT CONTROLS															§ 120.2			Confirmed		
1.	2.	3.					4.					5.								
Equip Name	Equip Type	CFM	HP	BHP	TSP (Inch WC)	Control	CFM	HP	BHP	TSP (Inch WC)	Control	Economizer Type (if present)	Reqd	Met	Reqd	Met				
28 - Physical Training@3	Exhaust					No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler Heat Recovery (Plate, 140 W)						NA								

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Project Name: Sheriff Substation															NRCC-PRF-01-E			Page 12 of 50		
Project Address: 1129 N. Armstrong Ave. Fresno 93727															Calculation Date/Time: 13:18, Fri, May 01, 2020					
Compliance Scope: NewEnvelopeAndMechanical															Input File Name: 19280 Sheriff Substation V7_05.01.2020-Anthony_k_cib16x					
M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information)															§ 110.1 / § 110.2			Confirmed		
Dry System Equipment 1 (Fan & Economizer info included below in Table N)																				
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.										
Equip Name	Equip Type	System Type (Simple 1 or Complex 2)	Qty	Total Heating Output (kBtu/yr)	Supp Heat Source (Y/N)	Supp Heat Output (kBtu/yr)	Total Cooling Output (kBtu/yr)	Efficiency	Acceptance Testing Required? (Y/N) 4	Control	Reqd	Met	Reqd	Met	Reqd	Met				
235 - Office 159	SZHP (SplitPhase)	Simple	1	12	No	0	14	SEER: 14.000 / EER-12.200	HSFP-8.200	Yes	N									

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Project Name: Sheriff Substation															NRCC-PRF-01-E			Page 16 of 50		
Project Address: 1129 N. Armstrong Ave. Fresno 93727															Calculation Date/Time: 13:18, Fri, May 01, 2020					
Compliance Scope: NewEnvelopeAndMechanical															Input File Name: 19280 Sheriff Substation V7_05.01.2020-Anthony_k_cib16x					
N. ECONOMIZER & FAN SYSTEMS SUMMARY*															§ 140.4			Confirmed		
1.	2.	3.					4.					5.								
Equip Name	Equip Type	CFM	HP	BHP	TSP (Inch WC)	Control	CFM	HP	BHP	TSP (Inch WC)	Control	Economizer Type (if present)	Reqd	Met	Reqd	Met				
28 - Physical Training	SZHP	355	1360	0.186	0.186	0.51	ConstantVolume	NA	NA	NA	NA	NA	NA							

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California License Arch/Int No: C-27818
Ren. 10-31-2019
Fresno County Department of Public Works
Capital Projects
2220 Tulare Street, Eighth Floor
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Telephone: (509) 600-4477
E-mail: ndavidson@co.fresno.ca.us

Project:
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
APN: 310-133-04-.05, and -06
ISSUE DATE: 10.10.2019
PROJECT NO: 780293 / 19003
FILE NAME:

Sheet Content:
TITLE 25 DOCUMENTS

Fresno County Department of Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
M4.2

Drawn by: ---- Plot date: 06.01.2020

TITLE 24 DOCUMENTS
Scale: NTS

1 June 2020 2:42 PM P:\2019\19280 Fresno County Sheriff Area 2 Substation\4 - Drawings\4 - MCH\24 Documents\4 - MCH\24 Documents.dwg 0:00:00 2:42:08 PM

Project Name:		Sheriff Substation		NRCC-PRF-01-E		Page 37 of 50										
Project Address:		1129 N. Armstrong Ave. Fresno 93727		Calculation Date/Time:		13.18, Fri, May 01, 2020										
Compliance Scope:		NewEnvelopeAndMechanical		Input File Name:		19280 Sheriff Substation V7_05.01.2020-Anthony K. Cibulak										
B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY																
§ 140.4 Confirmed																
System ID	System Type	Qty	Rated Capacity (Btu/h)		Economizer	Zone Name										
			Heating	Cooling		Design	Min. Ratio	Min. Ratio	BHP	Cycles	ECM Motor	HP	HP			
4-24 Public Conference Room	Uncontrolled	1	NA	NA	NA	4-24 Public Conference Room	1480	NA	0.00	NA	NA					
5-25 Specialty Unit 1 Off	Uncontrolled	1	NA	NA	NA	5-25 Specialty Unit 1 Off	880	NA	0.00	NA	NA					
6-26 Breakroom A	Uncontrolled	1	NA	NA	NA	6-26 Breakroom A	880	NA	0.00	NA	NA					
7-27 Breakroom B	Uncontrolled	1	NA	NA	NA	7-27 Breakroom B	1160	NA	0.00	NA	NA					
8-28 Physical Training Rm	Uncontrolled	1	NA	NA	NA	8-28 Physical Training	1160	NA	0.00	NA	NA					
9-29 Corridor D Female L-Tm	Uncontrolled	1	NA	NA	NA	9-29 Corridor D Female L	1410	NA	0.00	NA	NA					
10-210 Lactation-Tm	Uncontrolled	1	NA	NA	NA	10-210 Lactation	880	NA	0.00	NA	NA					
11-211 Janitor Mens Lock Tm	Uncontrolled	1	NA	NA	NA	11-211 Janitor Mens Lock	300	NA	0.00	NA	NA					
12-212 Inv. Staff Supply Tm	Uncontrolled	1	NA	NA	NA	12-212 Inv. Staff Supply	370	NA	0.00	NA	NA					
13-213 Interview Rooms & B-Tm	Uncontrolled	1	NA	NA	NA	13-213 Interview Rooms & B	300	NA	0.00	NA	NA					
14-214 Workstation D-Tm	Uncontrolled	1	NA	NA	NA	14-214 Workstation D	880	NA	0.00	NA	NA					
15-215 Corridor F & Office-Tm	Uncontrolled	1	NA	NA	NA	15-215 Corridor F & Office	880	NA	0.00	NA	NA					
16-218 Office 149-150-151-Tm	Uncontrolled	1	NA	NA	NA	16-218 Office 149-150-151	600	NA	0.00	NA	NA					
17-221 Office 149-150-151-Tm	Uncontrolled	1	NA	NA	NA	17-221 Office 149-150-151	600	NA	0.00	NA	NA					

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Project Address:		1129 N. Armstrong Ave. Fresno 93727		Calculation Date/Time:		13.18, Fri, May 01, 2020										
Compliance Scope:		NewEnvelopeAndMechanical		Input File Name:		19280 Sheriff Substation V7_05.01.2020-Anthony K. Cibulak										
A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)																
Confirmed																
1. DESIGN AIR FLOWS																
Conditioned Zone Name	System ID	System Type	Qty	Rated Capacity (Btu/h)		Economizer	Zone Name									
				Heating	Cooling		Design	Min. Ratio	Min. Ratio	BHP	Cycles	ECM Motor	HP	HP		
241 - Corridor E	241 - Corridor E	Uncontrolled	1	NA	NA	NA	241 - Corridor E	410	0.15	4.30	15.00	62	62	NA	NA	
242 - Workstation B-1	242 - Workstation B-1	Uncontrolled	1	NA	NA	NA	242 - Workstation B-1	1,564	0.15	15.64	15.00	235	235	NA	NA	
243 - Workstation B-2	243 - Workstation B-2	Uncontrolled	1	NA	NA	NA	243 - Workstation B-2	1,425	0.15	14.25	15.00	214	214	NA	NA	
TOTAL								22,262	9	442.3	6,863	6,863	NA	NA		

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Project Address:		1129 N. Armstrong Ave. Fresno 93727		Calculation Date/Time:		13.18, Fri, May 01, 2020										
Compliance Scope:		NewEnvelopeAndMechanical		Input File Name:		19280 Sheriff Substation V7_05.01.2020-Anthony K. Cibulak										
A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)																
Confirmed																
1. DESIGN AIR FLOWS																
Conditioned Zone Name	System ID	System Type	Qty	Rated Capacity (Btu/h)		Economizer	Zone Name									
				Heating	Cooling		Design	Min. Ratio	Min. Ratio	BHP	Cycles	ECM Motor	HP	HP		
233 - Training Room A	233 - Training Room A	Uncontrolled	1	NA	NA	NA	233 - Training Room A	752	0.68	33.84	15.00	508	508	NA	NA	
234 - Training Room A	234 - Training Room A	Uncontrolled	1	NA	NA	NA	234 - Training Room A	754	0.68	33.93	15.00	509	509	NA	NA	
235 - Corridor A & B	235 - Corridor A & B	Uncontrolled	1	NA	NA	NA	235 - Corridor A & B	744	0.15	7.44	15.00	112	112	NA	NA	
236 - Secure Training Rm	236 - Secure Training Rm	Uncontrolled	1	NA	NA	NA	236 - Secure Training Rm	473	0.52	16.55	15.00	248	248	NA	NA	
237 - Secure Training Rec	237 - Secure Training Rec	Uncontrolled	1	NA	NA	NA	237 - Secure Training Rec	635	0.15	4.44	21.43	95	95	NA	NA	
238 - Interview Rooms 153	238 - Interview Rooms 153	Uncontrolled	1	NA	NA	NA	238 - Interview Rooms 153	144	0.45	4.32	15.00	65	65	NA	NA	
239 - Workstation C-2 Ev	239 - Workstation C-2 Ev	Uncontrolled	1	NA	NA	NA	239 - Workstation C-2 Ev	1,332	0.15	13.09	16.66	185	185	NA	NA	
240 - Workstation C-1 US	240 - Workstation C-1 US	Uncontrolled	1	NA	NA	NA	240 - Workstation C-1 US	1,002	0.15	9.56	16.66	159	159	NA	NA	

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Project Address:		1129 N. Armstrong Ave. Fresno 93727		Calculation Date/Time:		13.18, Fri, May 01, 2020										
Compliance Scope:		NewEnvelopeAndMechanical		Input File Name:		19280 Sheriff Substation V7_05.01.2020-Anthony K. Cibulak										
A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)																
Confirmed																
1. DESIGN AIR FLOWS																
Conditioned Zone Name	System ID	System Type	Qty	Rated Capacity (Btu/h)		Economizer	Zone Name									
				Heating	Cooling		Design	Min. Ratio	Min. Ratio	BHP	Cycles	ECM Motor	HP	HP		
221 - Office 149-150-151	221 - Office 149-150-151	Uncontrolled	1	NA	NA	NA	221 - Office 149-150-151	315	0.30	6.30	15.00	95	95	NA	NA	
223 - 157 Hall-158 Office	223 - 157 Hall-158 Office	Uncontrolled	1	NA	NA	NA	223 - 157 Hall-158 Office	388	0.23	6.02	15.00	90	90	NA	NA	
19-225 - Office 159	19-225 - Office 159	Uncontrolled	1	NA	NA	NA	19-225 - Office 159	464	0.30	9.28	15.00	139	139	NA	NA	
20-227 - Office 161	20-227 - Office 161	Uncontrolled	1	NA	NA	NA	20-227 - Office 161	370	NA	0.00	NA	NA	NA	NA		
21-228 - Admin Asst. Office	21-228 - Admin Asst. Office	Uncontrolled	1	NA	NA	NA	21-228 - Admin Asst. Office	304	0.15	3.04	15.00	46	46	NA	NA	
22-229 - Admin Conference	22-229 - Admin Conference	Uncontrolled	1	NA	NA	NA	22-229 - Admin Conference	448	0.70	20.91	15.00	314	314	NA	NA	
23-230 Workstation A	23-230 Workstation A	Uncontrolled	1	NA	NA	NA	23-230 Workstation A	1,425	0.15	14.25	15.00	214	214	NA	NA	
24-251 Supply & Training S	24-251 Supply & Training S	Uncontrolled	1	NA	NA	NA	24-251 Supply & Training S	487	0.15	2.44	30.00	73	73	NA	NA	
25-232A - Data Racks	25-232A - Data Racks	Uncontrolled	1	NA	NA	NA	25-232A - Data Racks	275	0.15	3.38	30.00	41	41	NA	NA	
26-232B - Data Racks	26-232B - Data Racks	Uncontrolled	1	NA	NA	NA	26-232B - Data Racks	125	0.15	3.19	100.0	19	19	NA	NA	

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Compliance Scope:		NewEnvelopeAndMechanical		Input File Name:		19280 Sheriff Substation V7_05.01.2020-Anthony K. Cibulak	
F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)							
This Section Does Not Apply							
G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2016-NRCC-MCH-01-E)							
§ RA4							
Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).							
Test Description	NRCC-01A	NRCC-01B	NRCC-01C	NRCC-01D	NRCC-01E	NRCC-01F	Confirmed
Equipment Requiring Testing or Verification	# of units	Pass	Fail	Pass	Fail	Pass	Fail
21 - Public Waiting Area	1	X	X				
22 - Secure Reception & Lab	1	X	X				
23 - Men and Women RR & P	1	X	X				

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Project Address:		1129 N. Armstrong Ave. Fresno 93727		Calculation Date/Time:		13.18, Fri, May 01, 2020								
Compliance Scope:		NewEnvelopeAndMechanical		Input File Name:		19280 Sheriff Substation V7_05.01.2020-Anthony K. Cibulak								
C. EXHAUST FAN SUMMARY														
Confirmed														
System ID	System Type	Qty	Rated Capacity (Btu/h)		Economizer	Zone Name								
			Heating	Cooling		Design	Min. Ratio	Min. Ratio	BHP	Cycles	ECM Motor	HP	HP	
212 - Inv. Staff Supply	Uncontrolled	1	NA	NA	NA	212 - Inv. Staff Supply	50	0.059	2.92					
213 - Interview Rooms & R338	Uncontrolled	1	NA	NA	NA	213 - Interview Rooms & R338	95	0.073	2.93					
214 - Workstation D48	Uncontrolled	1	NA	NA	NA	214 - Workstation D48	50	0.039	2.97					
223 - 157 Hall-158 Office	Uncontrolled	1	NA	NA	NA	223 - 157 Hall-158 Office	75	0.058	2.94					
225 - Office 159208	Uncontrolled	1	NA	NA	NA	225 - Office 159208	75	0.058	2.94					
227 - Office 162218	Uncontrolled	1	NA	NA	NA	227 - Office 162218	50	0.039	2.97					
228 - Admin Asst. Office 224	Uncontrolled	1	NA	NA	NA	228 - Admin Asst. Office	45	0.035	2.96					
229 - Admin Conference 230	Uncontrolled	1	NA	NA	NA	229 - Admin Conference	270	0.208	2.93					
231 - Supply & Training 5239	Uncontrolled	1	NA	NA	NA	231 - Supply & Training S	75	0.058	2.94					
232A - Data 246	Uncontrolled	1	NA	NA	NA	232A - Data	40	0.030	2.86					
232B - Data Racks 250	Uncontrolled	1	NA	NA	NA	232B - Data Racks	40	0.030	2.86					
233 - Training Room A256	Uncontrolled	1	NA	NA	NA	233 - Training Room A	465	0.358	2.93					
233 - Training Room A262	Uncontrolled	1	NA	NA	NA	233 - Training Room A	465	0.358	2.93					
236 - Secure Training Room 269	Uncontrolled	1	NA	NA	NA	236 - Secure Training Room	255	0.196	2.93					
237 - Secure Training Rec 273	Uncontrolled	1	NA	NA	NA	237 - Secure Training Rec	100	0.077	2.93					

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Project Address:		1129 N. Armstrong Ave. Fresno 93727		Calculation Date/Time:		13.18, Fri, May 01, 2020									
Compliance Scope:		NewEnvelopeAndMechanical		Input File Name:		19280 Sheriff Substation V7_05.01.2020-Anthony K. Cibulak									
B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY															
§ 140.4 Confirmed															
System ID	System Type	Qty	Rated Capacity (Btu/h)		Economizer	Zone Name									
			Heating	Cooling		Design	Min. Ratio	Min. Ratio	BHP	Cycles	ECM Motor	HP	HP		
32-238 Interview Rooms 153-Tm	Uncontrolled	1	NA	NA	NA	32-238 Interview Rooms 153	300	NA	0.00	NA	NA				
33-239 Workstation C-1 Ev Tm	Uncontrolled	1	NA	NA	NA	33-239 Workstation C-2 Ev	1,160	NA	0.00	NA	NA				

Project Name:	Sheriff Substation	NRCC-PRF-01-E	Page 47 of 50
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Compliance Scope:	NewEnvelopeAndMechanical	Input File Name:	19280 Sheriff Substation V7_05.01.2020-Anthony.k.cbdt6x

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2016-NRCC-MCH-01-E)										§ R44			
Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).													
Test Description	MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Supply Zone Exhaust	Air Side Ducts	Economizer Controls	DCV	Supply Air Flow	Supply Air Temperature	Supply Air Humidity	Supply Air Velocity	Supply Air Pressure	Pass	Fail
233A - Data246	1	-	-	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
2329 - Data Racks	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
2328 - Data Racks250	1	-	-	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
227 - Training Room A	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
223 - Training Room A256	1	-	-	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
234 - Training Room B	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
233 - Training Room A262	1	-	-	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
235 - Corridor A & B	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>

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ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL		ENV-MM
Project Name	Date	
Fresno County Sheriff Area 2 Substation	5/1/2020	
DESCRIPTION		
Building Envelope Measures:		
§110.8(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.	
§110.8(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.	
§110.8(g):	Heated slab floors shall be insulated according to the requirements in Table 110.8-A.	
§110.7(a):	All exterior joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.	
§110.8(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft ² of window area, 0.3 cfm/ft ² of door area for residential doors, 0.3 cfm/ft ² of door area for nonresidential single doors (swing and sliding), and 1.0 cfm/ft ² for nonresidential double doors (swing).	
§110.8(a):	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.	
§110.8(a):	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.	
§110.8(b):	The opaque portions of the roof that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows:	
§120.7(a):	Metal Building: The weighted average U-factor of the roof assembly shall not exceed 0.098. Wood Framed and Others: The weighted average U-factor of the roof assembly shall not exceed 0.075. The opaque portions of walls that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor as follows:	
§120.7(b):	Metal Building: The weighted average U-factor of the wall assembly shall not exceed 0.113. Metal Frame: The weighted average U-factor of the wall assembly shall not exceed 0.151. Light-Mass Walls: A 6 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.440. Heavy Mass Walls: An 8 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.690. Wood Framed and Others: The weighted average U-factor of the wall assembly shall not exceed 0.110. Spandrel Panels and Opaque Curtain Wall: The weighted average U-factor of the spandrel panels and opaque curtain wall assembly shall not exceed 0.280. Demising Walls: The opaque portions of framed demising walls shall meet the requirements of Item A or B below: A. Wood framed walls shall be insulated to meet a U-factor not greater than 0.099. B. Metal framed walls shall be insulated to meet a U-factor not greater than 0.151. The opaque portions of floors and soffits that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows:	
§120.7(c):	Raised Mass Floors: Shall have a minimum of 3 inches of lightweight concrete over a metal deck or the weighted average U-factor of the floor assembly shall not exceed 0.260. Other Floors: The weighted average U-factor of the floor assembly shall not exceed 0.071.	

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Compliance Scope:	NewEnvelopeAndMechanical	Input File Name:	19280 Sheriff Substation V7_05.01.2020-Anthony.k.cbdt6x

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2016-NRCC-MCH-01-E)										§ R44			
Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).													
Test Description	MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Supply Zone Exhaust	Air Side Ducts	Economizer Controls	DCV	Supply Air Flow	Supply Air Temperature	Supply Air Humidity	Supply Air Velocity	Supply Air Pressure	Pass	Fail
227 - Office 161218	1	-	-	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
228 - Admin Area Office	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
228 - Admin Ass. Office224	1	-	-	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
229 - Admin Conference 230	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
229 - Admin Conference 230	1	-	-	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
230 - Workstation A	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
231 - Supply & Training 5	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
231 - Supply & Training 5239	1	-	-	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
232A - Data	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583 Report Generated at: 2020-05-01 13:23:59

Project Name:	Sheriff Substation	NRCC-PRF-01-E	Page 50 of 50
Project Address:	1129 N. Armstrong Ave. Fresno 93727	Calculation Date/Time:	13-18, Fri, May 01, 2020
Compliance Scope:	NewEnvelopeAndMechanical	Input File Name:	19280 Sheriff Substation V7_05.01.2020-Anthony.k.cbdt6x

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E)										§ 140.6-D	
This Section Does Not Apply											
E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E)										§ 140.6(c) 2H	
This Section Does Not Apply											
F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)										This Section Does Not Apply	
This Section Does Not Apply											
G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)										This Section Does Not Apply	
This Section Does Not Apply											
H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTD-01-E)										§ 130.4	
This Section Does Not Apply											

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583 Report Generated at: 2020-05-01 13:23:59

Project Name:	Sheriff Substation	NRCC-PRF-01-E	Page 45 of 50
Project Address:	1129 N. Armstrong Ave. Fresno 93727	Calculation Date/Time:	13-18, Fri, May 01, 2020
Compliance Scope:	NewEnvelopeAndMechanical	Input File Name:	19280 Sheriff Substation V7_05.01.2020-Anthony.k.cbdt6x

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2016-NRCC-MCH-01-E)										§ R44			
Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).													
Test Description	MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Supply Zone Exhaust	Air Side Ducts	Economizer Controls	DCV	Supply Air Flow	Supply Air Temperature	Supply Air Humidity	Supply Air Velocity	Supply Air Pressure	Pass	Fail
225 - Corridor F & Office	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
228 - Office 146-147-148	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
223 - Office 149-150-151	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
223 - 157 Hall 158 Office 156	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
223 - 157 Hall 158 Office 156	1	-	-	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
225 - Office 150	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
225 - Office 15208	1	-	-	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
227 - Office 160	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>

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Equipment Requiring Testing or Verification	# of units	Outdoor Air	Supply Zone Exhaust	Air Side Ducts	Economizer Controls	DCV	Supply Air Flow	Supply Air Temperature	Supply Air Humidity	Supply Air Velocity	Supply Air Pressure	Pass	Fail
226 - Secure Training Rec	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
226 - Secure Training Rec269	1	-	-	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
227 - Secure Training Rec273	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
228 - Interview Rooms 153	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
229 - Workstation C-2 Ev	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
240 - Workstation C-1 US	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>
241 - Corridor E	1	X	X	-	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>

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 Res. 10-31-2019
 Fresno County Department of Public Works
 Capital Projects
 2201 Tulare Street, Eighth Floor
 Fresno, California 93721
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Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04-.05, and -.06
 ISSUE DATE: 10.10.2019
 PROJECT NO: T80293 / 19003
 FILE NAME:

Sheet Content:
 TITLE 24 DOCUMENTS

Fresno County Department of Public Works and Planning Capital Projects
 2220 Tulare Street, 8th Floor Fresno, California 93721

Sheet No.
M4.5

Drawn by: ---- Plot date: 06.01.2020

TITLE 24 DOCUMENTS
 Scale: NTS

1 June 2020 2:42 PM P:\2019\19280 Fresno County Sheriff Area 2 Substation\4-Mechanical\4-Drawing\4-Mechanical\4-Drawing\M4.5.TITLE 24.dwg mbe

Electrical General Notes

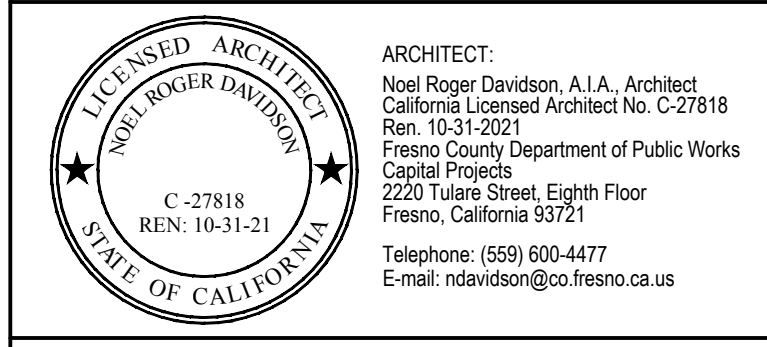
- ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:
 - CALIFORNIA BUILDING CODE 2016
 - CALIFORNIA ELECTRICAL CODE 2016
 - NON RESIDENTIAL CEC ENERGY STANDARDS 2016
- NOTHING IN THE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
- IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER EVERYTHING REQUIRED TO PROVIDE FOR COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH LABOR, MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED.
- THE CONTRACTOR SHALL EXAMINE THE SITE AND EXISTING CONDITIONS AND MAKE ALLOWANCES IN THE BID FOR ANY CONDITIONS NOT SHOWN ON THE ELECTRICAL DOCUMENTS.
- THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES AND ARE NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY THE SCOPE OF WORK WITH THE ARCHITECT AND THE GENERAL CONTRACTOR.
- ELECTRICAL ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING & PHYSICAL CONDITIONS MAY VARY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL ROUTING, CONNECTIONS, & PROVISION OF ALL APPURTENANCES NECESSARY FOR A COMPLETE & OPERATING SYSTEM.
- ELECTRICAL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED (UL, CSA ETC.) PER CEC 110.2.
- ELECTRICAL EQUIPMENT SHALL HAVE A SHORT CIRCUIT CURRENT RATING CAPABLE OF WITHSTANDING THE AVAILABLE SHORT CIRCUIT CURRENT PER CEC 110.9. WHERE SERIES COMBINATION RATINGS ARE USED FOR NEW PANELS, PROVIDE A CAUTIONARY LABEL TO THE SERIES RATED DEVICE COVER STATING "CAUTION - SERIES RATED SYSTEM AMPACITY AVAILABLE" AND IDENTIFY THE COMPONENTS, PER CEC 110.3, 110.22(C), 240.86, AND THE UL RECOGNITION DIRECTORY.
- PROVIDE MINIMUM 30" WIDE x 78" HIGH x 36" DEEP WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208V 3Ø 4W PER CEC 110.26.
- PROVIDE MINIMUM 30" WIDE x 78" HIGH x 42" DEEP WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 277/480V 3Ø 4W PER CEC 110.26.
- PROVIDE A PLACARD ON EACH PANELBOARD INDICATING THE LOCATION AND IDENTIFICATION OF THE FEEDER SERVING THE PANEL, PER CEC 408.4(B).
- PROVIDE ILLUMINATED EMERGENCY POWER PER 2016 CFC, SECTION 1006.3. EMERGENCY EGRESS LIGHTING SHALL PROVIDE A MINIMUM LUMINANCE OF 1 FOOTCANDLE AT THE WALKING SURFACE FOR A MINIMUM OF 90 MINUTES.
- FIRE ALARM EQUIPMENT SHALL BE SERVED BY DEDICATED FIRE ALARM BRANCH CIRCUITS PER NFPA 72 10.6.5.1.2. THE CIRCUIT NUMBER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM EQUIPMENT PER NFPA 10.6.5.2.1. THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH RED HANDLE AND LOCK-ON DEVICE, AND PERMANENTLY IDENTIFIED AS "FIRE ALARM CIRCUIT" PER NFPA 72 10.6.5.2.2, 10.6.5.2.3, 10.6.5.2.4, AND 10.6.5.4.
- WIRING FOR 120/208V AND 277/480V SYSTEMS SHALL BE MIN. #12 AWG THHN/THWN-2 COPPER.
- 120V AND 277V BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS. SHARING NEUTRALS IS NOT ACCEPTABLE.
- FEEDERS SIZE #4 AND LARGER SHALL BE MEGGER TESTED. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
- ALL UNDERGROUND CONDUITS SHALL HAVE MINIMUM 24" COVER. INSTALL GALVANIZED RIGID STEEL RISERS & ELBOWS WHERE RISERS OCCUR. WRAP GRS BELOW GRADE OR PROVIDE PVC COATED GRS. EXPOSED CONDUIT SHALL BE GRS TO 6"Ø, THEN EMT ABOVE AS APPROPRIATE. UNDER NO CIRCUMSTANCE SHALL PVC CONDUIT BE INSTALLED ABOVE GRADE.
- CONDUIT INSTALLED ABOVE GRADE SHALL BE MIN. 3/4" TRADE SIZE. CONDUIT BELOW GRADE SHALL BE MIN. 1" TRADE SIZE.
- PROVIDE (4) 1" CONDUIT STUBS FROM EACH NEW ELECTRICAL PANEL TO ACCESSIBLE ATTIC SPACE FOR FUTURE USE.
- COLORS/FINISHES/MATERIALS FOR ALL ELECTRICAL DEVICES, PLATES, LIGHT FIXTURES, ETC. SHALL BE CHOSEN BY THE ARCHITECT.
- PROVIDE PERMANENT LOCK-OPEN DEVICES ON CIRCUIT BREAKERS SERVING ELECTRIC WATER HEATERS TO MEET THE REQUIREMENTS OF CEC 422.31.
- BEFORE AN OCCUPANCY PERMIT IS GRANTED FOR A NEWLY CONSTRUCTED BUILDING OR AREA, OR NEW LIGHTING SERVING A BUILDING, AREA OR SITE IS OPERATED FOR NORMAL USE, ALL INDOOR AND OUTDOOR LIGHTING CONTROLS SERVING THE BUILDING, AREA OR SITE SHALL BE CERTIFIED AS MEETING THE "ACCEPTANCE REQUIREMENTS" FOR CODE COMPLIANCE IN ACCORDANCE WITH SECTION 130.4. A "CERTIFICATE OF ACCEPTANCE" SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY UNDER SECTION 10-103(a) OF PART 1 THRU 7(c).
- AT TIME OF "FINAL INSPECTION", ALL CODE REQUIRED SIGN CONTROLS WILL BE REQUIRED TO HAVE BEEN INSTALLED. REFERENCE SECTION 130.4 OF THE 2016 CALIFORNIA ENERGY CODE.
- THE CALIFORNIA STATE LICENSE BOARD (CSLB) "ZERO TOLERANCE POLICY" IN EFFECT FOR NON-COMPLIANT LABOR CODE SECTIONS 3099 AND 2099.2, SECTIONS 209.0 AND THE AB 931, AS OF JANUARY 2006, ENFORCEMENT OF LEGAL ACTION WILL BE ISSUED TO ANY C-10 CONTRACTOR WHO WILLFULLY EMPLOYS AN "UNCERTIFIED ELECTRICIAN" TO PERFORM ELECTRICAL WORK IN THE STATE OF CALIFORNIA.
- THE GENERAL CONTRACTOR SHALL COORDINATE THE FIRE ALARM SYSTEM INTERFACES BETWEEN THE FIRE ALARM CONTRACTOR, SPRINKLER CONTRACTOR, MECHANICAL CONTRACTOR, AND ANY OTHER PERTINENT TRADES (FIRE ALARM, SPRINKLER SYSTEM, HOOD AND VENT EXTINGUISHING SYSTEM, HVAC, FIRE SMOKE DAMPERS, ETC.).
- WHEN A FIRE ALARM SYSTEM IS PRESENT AND THE TOTAL COMBINED CFM FOR ALL HVAC UNITS IN A FIRE COMPARTMENT IS IN EXCESS OF 2000, DETECTION OF SMOKE IN ANY ONE OF THE DUCT DETECTORS SHALL SHUT OFF THE POWER SOURCES TO ALL THE UNITS PER FRESNO FIRE POLICY 407.4.
- PROVIDE START-UP, TESTING, ADJUSTMENT, AND REPORTING OF BUILDING LIGHTING SYSTEM PER CGBSC 5.410.4.
- ARC-FLASH WARNING SIGNS SHALL BE PROVIDED PER CEC SECTION 110.16.
- FAULT CURRENT SHALL BE CALCULATED AND POSTED PRIOR TO FINAL INSPECTION PER CEC 110.24.

Electrical Symbols

SYMBOL	DESCRIPTION	NOTES	SYMBOL	DESCRIPTION	NOTES
	POLE WITH SINGLE AREA LUMINAIRE			DEVICES TO BE REMOVED	
	POLE WITH DOUBLE AREA LUMINAIRES			EXISTING CONDUIT/WIRING TO BE DEMOLISHED	
	POLE WITH POST TOP AREA LUMINAIRE			EXISTING DEVICES	
	FIXTURE TYPE "A"	REFER TO FIXTURE SCHEDULE		EXISTING CONDUIT/WIRING	
	SURFACE CEILING LIGHT			WIRING IN CONDUIT, BELOW GRADE	3/4" CONDUIT MIN.
	RECESSED DOWN LIGHT			WIRING IN CONDUIT, IN WALL OR CEILING	3/4" CONDUIT MIN.
	WALL LIGHT			LOW VOLTAGE WIRING IN ATTIC SPACE	TYPE PER EQUIPMENT MANUFACTURER
	FIXTURE ON EMERGENCY POWER	PROVIDE UNSWITCHED HOT TO BATT PACKS		CONDUIT RISER	3/4" CONDUIT MIN.
	EXIT SIGN, CEILING (ARROWS INDICATE CHEVRONS)	PROVIDE UNSWITCHED HOT TO BATT PACKS		FLEXIBLE CONDUIT	3/4" CONDUIT MIN.
	EXIT SIGN, WALL (ARROWS INDICATE CHEVRONS)	PROVIDE UNSWITCHED HOT TO BATT PACKS		CONDUIT STUB AND CAP	3/4" CONDUIT MIN.
	DEDICATED EMERGENCY LIGHT	PROVIDE UNSWITCHED HOT TO BATT PACKS		CROSS HATCHES INDICATE NUMBER OF #12 AWG CONDUCTORS IN CONDUIT, WHEN MORE THAN TWO.	3/4" CONDUIT MIN.
	INVERTER			WIRE SIZE INDICATED ON PLANS WHEN OTHER #12 AWG. PROVIDE GROUND PER GEO 250. PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT.	
	SWITCH AT +48" AFF TO TOP OF BOX	20A 277V QUIET TOGGLE		CURVED CROSS HATCHES INDICATE #14 AWG PURPLE & GRAY CONDUCTORS FOR DIMMING CONTROL.	3/4" CONDUIT MIN.
	3-WAY SWITCH AT +48" AFF TO TOP OF BOX	20A 277V QUIET TOGGLE		HOME RUN (TO PANEL "A", CIRCUIT "15")	3/4" CONDUIT MIN.
	DIMMER SWITCH, TO BE COMPATIBLE WITH CONTROLLED FIXTURES, AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 1G BOX PER SWITCH W/ RING, 1"Ø. TO ACCESSIBLE ATTIC SPACE		"EXISTING"	
	WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH, 0-10V DIMMING, AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 1G BOX PER SWITCH W/ RING, 1"Ø. TO ACCESSIBLE ATTIC SPACE		"UNLESS OTHERWISE NOTED"	
	WALL MOUNTED ULTRASONIC OCCUPANCY SENSOR SWITCH, W/ SEPARATE EXHAUST FAN RELAY AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 1G BOX PER SWITCH W/ RING, 1"Ø. TO ACCESSIBLE ATTIC SPACE		"WEATHERPROOF" / NEMA 3R	
	DIGITAL ON/OFF SWITCH, AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 1G BOX & RING, 1"Ø. TO ACCESSIBLE ATTIC		"GROUND FAULT INTERRUPTER"	
	DIGITAL DIMMER SWITCH, AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 1G BOX & RING, 1"Ø. TO ACCESSIBLE ATTIC		TERMINAL CABINET	
	DIGITAL DIMMER SWITCH W/ INTEGRAL OCCUPANCY SENSOR AND PHOTSENSOR AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 1G BOX & RING, 1"Ø. TO ACCESSIBLE ATTIC		DATA OUTLET (RJ-45 CAT6) WITH 2 JACK PLATE, & 1 1/2"Ø. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1 1/2"Ø. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	DIGITAL "FRESCO" GRAPHICAL TOUCHSCREEN DIMMING CONTROLLER AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 1G BOX & RING, 1"Ø. TO ACCESSIBLE ATTIC		(2) WAP DATA JACKS (RJ-45 CAT6A) MOUNTED IN ATTIC SPACE.	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END.
	DIGITAL OCCUPANCY SENSOR W/ PHOTENSOR DUAL-TECHNOLOGY CEILING MOUNT	nLIGHT SYSTEM #nCM PDT 10		(2) WAP DATA JACKS (RJ-45 CAT6A) AT +108" AFF, U.O.N.	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1 1/2"Ø. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	DIGITAL OCCUPANCY SENSOR W/ PHOTENSOR DUAL-TECHNOLOGY WALL MOUNT	nLIGHT SYSTEM, ROUGH IN WITH 1G BOX & RING, 1"Ø. TO ACCESSIBLE ATTIC		WALL MOUNT VOIP OUTLET (RJ-45 CAT6) AT +45" AFF, U.O.N.	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1 1/2"Ø. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	WIRELESS DIGITAL OCCUPANCY SENSOR W/ PHOTENSOR, DUAL-TECHNOLOGY CEILING MOUNT	PROVIDE XPOINT SBOR SENSOR INTERFACE		WALL MOUNT DATA/COMM OUTLET AT +45" AFF, U.O.N.	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1 1/2"Ø. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	DIGITAL GATEWAY	nLIGHT SYSTEM, PROVIDE (1) GATEWAY AT EACH BUILDING AND CONNECT TO LAN. PROVIDE BOX/OUTLET AT GATEWAY LOCATION FOR GATEWAY POWER SUPPLY.		"MAIN DISTRIBUTION FRAME"	
	DIGITAL BRIDGE	nLIGHT SYSTEM, PROVIDE (1) BRIDGE FOR EACH (6) nLIGHT ZONES. CONNECT BRIDGE POWER SUPPLY TO LOCAL LIGHTING CIRCUIT.		"INTERMEDIATE DISTRIBUTION FRAME"	
	DIGITAL XPOINT WIRELESS BRIDGE	INTERFACE WITH nLIGHT SYSTEM GATEWAY		PUBLIC ADDRESS SPEAKER, CEILING MOUNTED	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	DIMMING POWER PACK VERIFY 0-10V, 2- OR 3-WIRE, MLV, OR ELV BY FIXTURE	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING		PUBLIC ADDRESS SPEAKER WALL MOUNTED, +120" U.O.N.	RUN 1"Ø. TO ACCESSIBLE ATTIC SPACE AND HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	DIMMING POWER PACK W/ EMERGENCY CONTROL RELAY VERIFY 0-10V, 2- OR 3-WIRE, MLV, OR ELV BY FIXTURE	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING		WP OUTDOOR PUBLIC ADDRESS SPEAKER, WALL MOUNTED, +120" U.O.N.	RUN 1"Ø. TO ACCESSIBLE ATTIC SPACE AND HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	DMX CONTROLLER PACK	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING		SURVEILLANCE (CCTV) CAMERA PROVISION, WALL MOUNTED, VERIFY HEIGHTS AT EACH LOC. C=CEILING MOUNTED.	INTERIOR: 1G J-BOX, 1G RING, MODULAR PLATE, 3/4"Ø. TO ACCESSIBLE ATTIC SPACE. EXTERIOR: 1G FLUSH BELL BOX, MODULAR PLATE, 3/4"Ø. TO ACCESSIBLE ATTIC SPACE. PROVIDE (1) CAT6 CABLE AND DATA JACK TO EACH CAMERA PROVISION. VERIFY EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
	RECEPTACLE RELAY CONTROLLED BY OCCUPANCY SENSOR	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING. (1) RELAY PER CIRCUIT IN EACH CONTROLLED AREA.		RECESSED TV BOX WITH POWER OUTLET. (2) DATA JACKS, HDMI AND CATV JACKS. VERIFY HEIGHT/LOCATION PRIOR TO ROUGH-IN. SEE POWER PLAN FOR POWER OUTLET	MAKE POWER CONNECTION AND PROVIDE 1 1/2"Ø. STUB TO EXPOSED CABLE SPACE NEAR ROOF. VERIFY HEIGHTS W/ ARCH.
	SWITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM		A/V INPUT HDMI/VGA/3.5MM AUDIO/USB JACK WALL PLATE AT +18" AFF	2G BOX, 1G RING, (2) 1 1/4"Ø. TO ATTIC SPACE. INSTALL CABLES FROM STATION TO TV.
	POWER PANEL	REFER TO PANEL SCHEDULE			
	JUNCTION BOX	4-11/16" SQUARE BOX & COVER PLATE MIN.			
	DISCONNECT SWITCH, FUSIBLE	REFER TO MECH. PLANS & SPECS.			
	MOTOR CONTROLLER/DISCONNECT SWITCH	REFER TO MECH. PLANS & SPECS.			
	MOTOR	REFER TO MECH. PLANS & SPECS.			
	EXHAUST FAN, CEILING MOUNTED	REFER TO MECH. PLANS & SPECS.			
	SINGLE CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED			
	DUPLEX CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED			
	QUADPLEX CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED			
	DUPLEX GFI CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #X7899-W			
	QUADPLEX GFI CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #X7899-W			
	WEATHERPROOF, GFI OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N. W/ WEATHERPROOF IN-USE TYPE COVER	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #X7899-W			
	DUPLEX CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N. SPLIT-WIRED WITH UNSWITCHED AND SWITCHED BY OCCUPANCY SENSOR	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #TDR20-S1W CODE COMPLIANT MARKING REQUIRED			
	HEAVY DUTY WP MINI POWER CENTER WITH 10KVA XFMR AND (6) 20A 1-POLE BREAKERS	PROVIDE (4) STEEL BOLLARDS TO PROTECT PEDESTAL			
	HEAVY DUTY WP OUTLET PEDESTAL WITH (2) GFI DUPLEX OUTLETS AT 180" WITH WP WHILE-IN USE COVERS	PROVIDE (2) STEEL BOLLARDS TO PROTECT PEDESTAL			
	SPECIAL EQUIPMENT OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	VERIFY REQTS W/ EQUIPMENT VENDOR			
	2G FLOOR BOX WITH POWER FEED COVER	MAKE CONNECTION TO MODULAR FURNITURE SYSTEM WITH #6 GREEN GROUND WIRE TO G.E.C.			
	12" CU GROUND BUS BAR	PROVIDE 120V F.A. CIRCUIT TO DAMPER VIA F.A. RELAY.			
	FIRE/SMOKE DAMPER				



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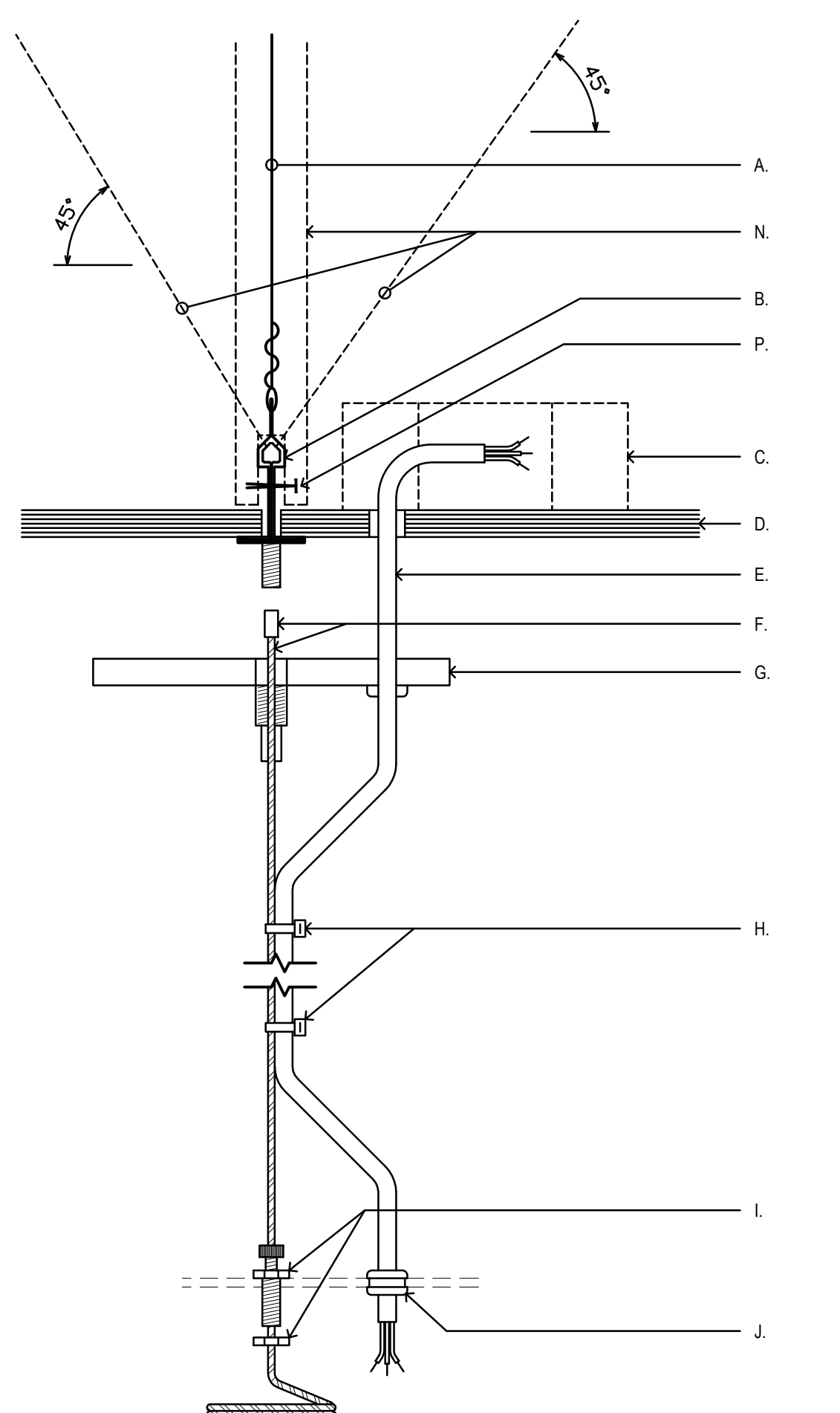
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Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 6.1.2020
 PROJECT NO: TR8293 / 19003
 FILE NAME: 19074 - Elec_Split Bid Set

Sheet Content:
 ELECTRICAL SYMBOLS
 AND GENERAL NOTES

Fresno County Department of
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 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
E1.0



T-BAR MOUNTING NOTES:

A. HANGER WIRE:
12GA GALV. HANGER WIRES FROM SUPPORT CLIP TO ROOF STRUCTURE. REFER TO ARCHITECTURAL DETAILS FOR ACCEPTABLE HANGER WIRE CONNECTIONS.

B. SUPPORT CLIP:
CADDY "INDEPENDENT SUPPORT CLIP" W/ 1/4-20 STUD. ATTACHES OVER T-BAR RUNNER.

C. J-BOX:
LIGHTING CIRCUIT J-BOX (AT POWER FEED END OF FIXTURE ONLY).

D. ACOUSTIC CEILING TILE:
INSTALLED IN T-BAR GRID SYSTEM. SEE ARCH. PLANS.

E. POWER FEED:
WHITE 50 CORD, 18/3 OR 18/4, AS REQUIRED.

F. AIRCRAFT CABLE:
3/32" STAINLESS STEEL AIRCRAFT CABLE W/ BARREL TERMINAL AT ONE END.

G. CANOPY:
1/4" INTERNAL THREAD CEILING COUPLER, AND BARREL TERMINAL CAPTURE, BY MFG'R.

H. ZIP TIE:
NEATLY ZIP TIE POWER FEED TO AIRCRAFT CABLE AT 6" CENTERS W/ WHITE ZIP TIES.

I. GRIPPER:
UL LISTED AIRCRAFT CABLE GRIPPER W/ KNURLED LOCK NUT. 1/4-20" THREADED BODY & NUT ATTACHES TO FIXTURE.

J. STRAIN RELIEF:
STRAIN RELIEF BUSHING AT FIXTURE.

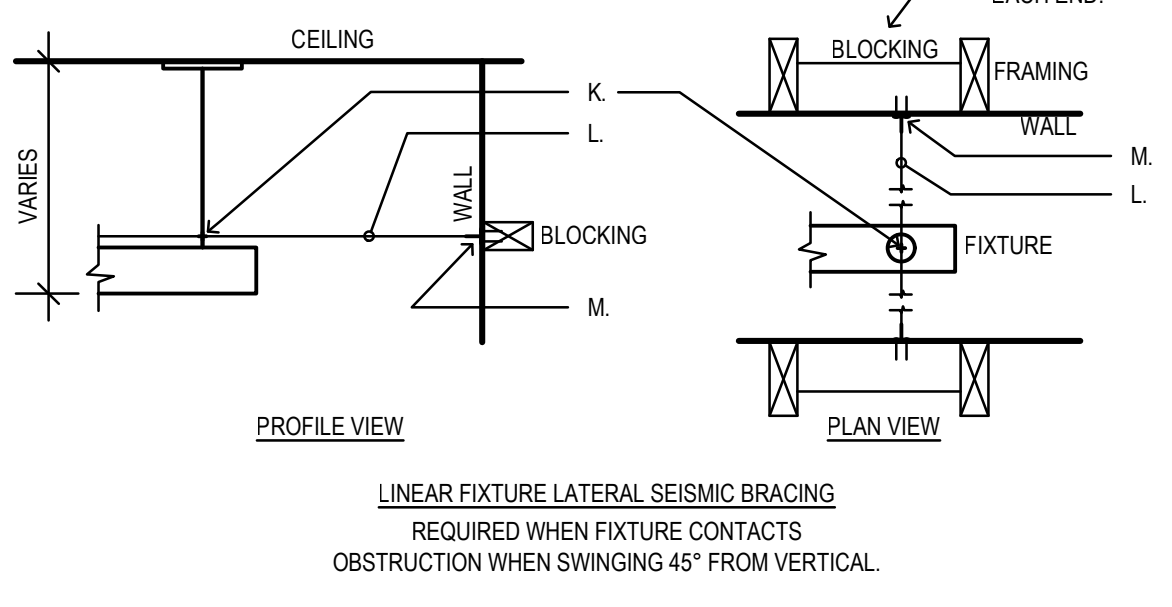
K. CABLE CLAMP:
SECURE TO EACH HANGER CABLE WITHIN 4" OF FIXTURE ATTACHMENT POINT.

L. LATERAL BRACING CABLE:
3/32" STAINLESS STEEL AIRCRAFT CABLE INSTALLED LONGITUDINALLY ACROSS FIXTURE TO PREVENT SWAYING.

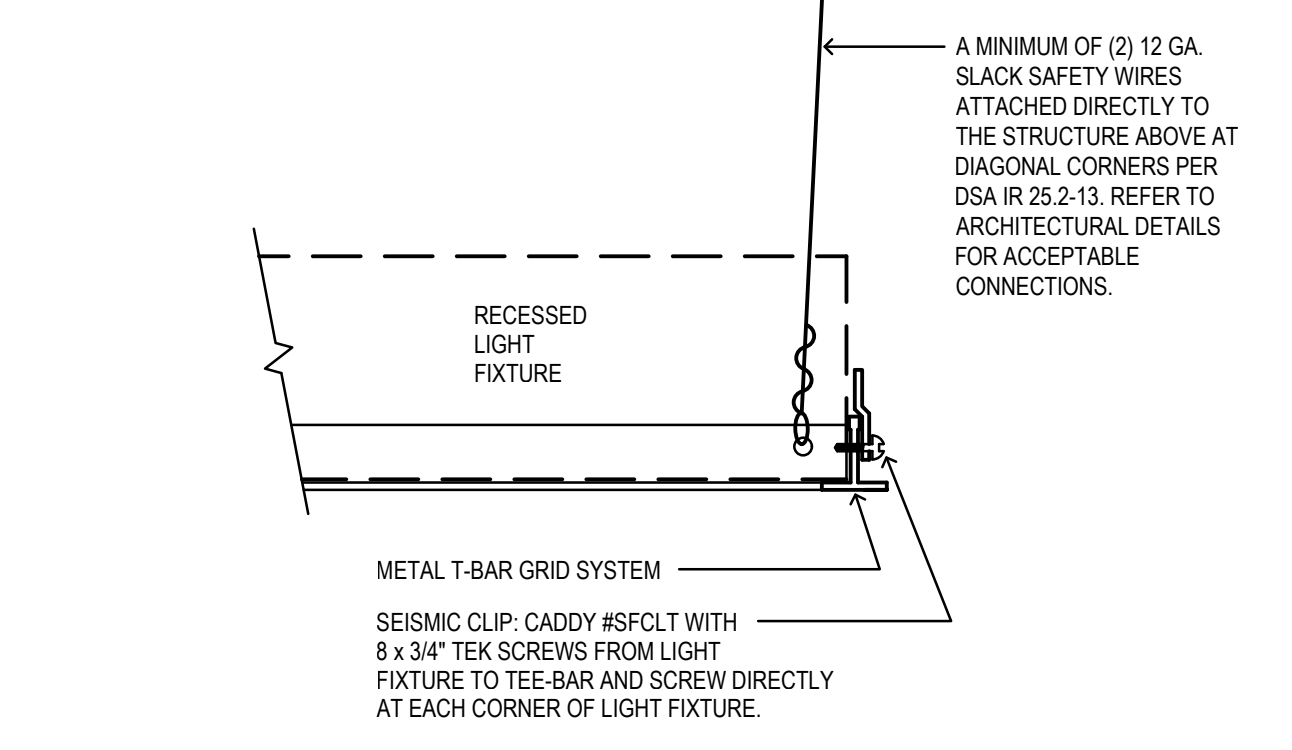
M. WALL ANCHOR:
CABLE COUPLER ANCHOR (GRIPLOCK #DG-CC-APLT-SAT) SECURED WITH (2) #12 SMS THRU WALL FRAMING/BLOCKING AT EACH END OF FIXTURE.

N. COMPRESSION STRUT:
PROVIDE COMPRESSION STRUT AND (4) SPLAY WIRES THROUGH MAIN RUNNER PER DSA IR 25.2-13 WITHIN 6" OF EACH SUPPORT CLIP. SUPPORT CLIPS TO BE SPACED MAX. 8" O.C. & WITHIN 6" OF EACH END. SEE ARCH. DETAILS FOR INSTALLATION REQUIREMENTS.

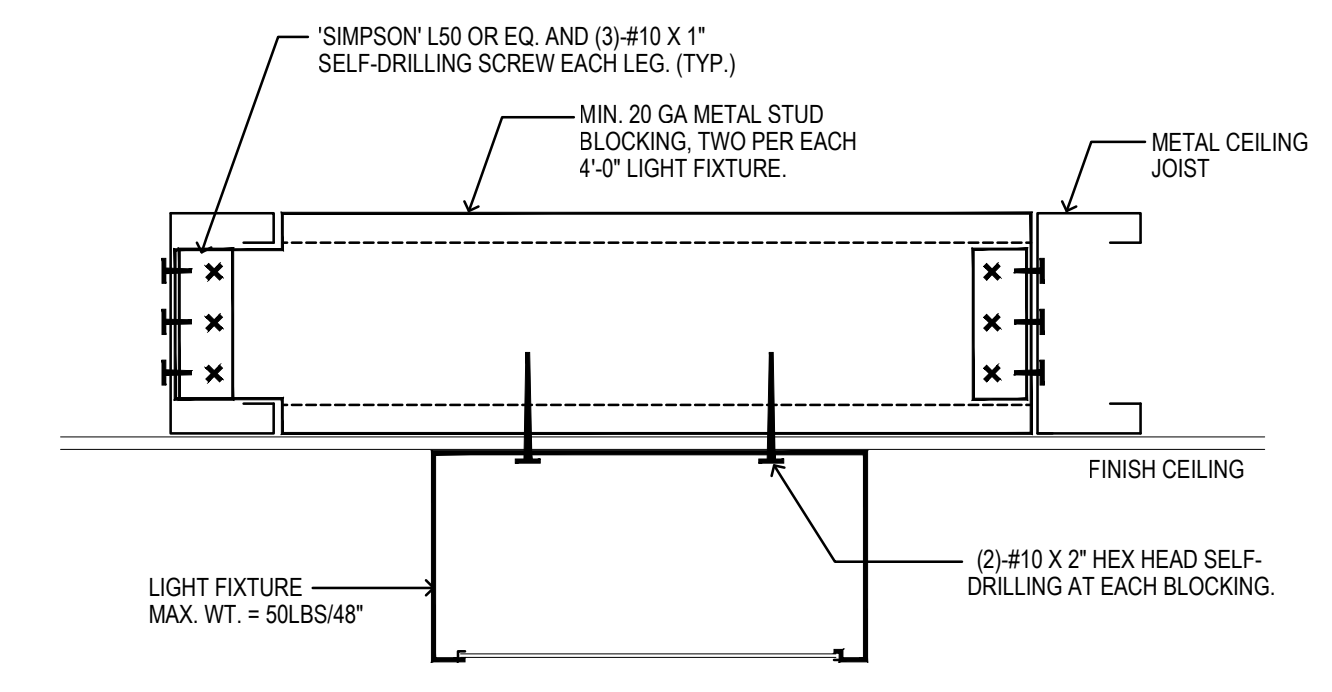
P. INSTALL #10 S.M.S. THROUGH CLIP AND MAIN RUNNER.



HEAVY DUTY GRID SYSTEM			
MAX. LIGHT FIXTURE DIMENSION	WEIGHT	NO. OF HANGER WIRES	TYPE
< 24" x 48"	< 56 LBS	2	SLACK
> 24" x 48"	> 56 LBS	4	TAUT

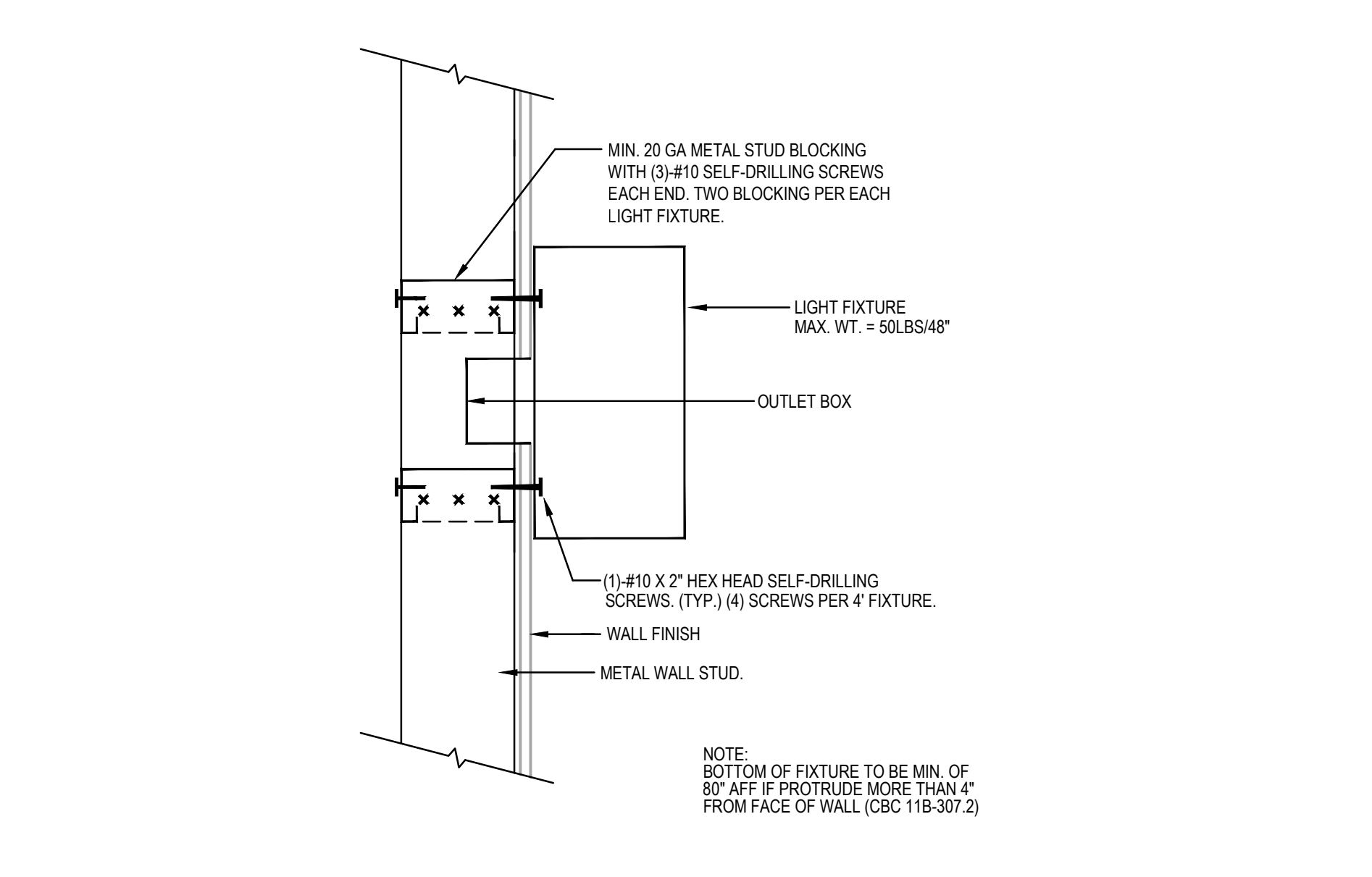


N8 Fixture T-Bar Mounting Detail
Scale: None

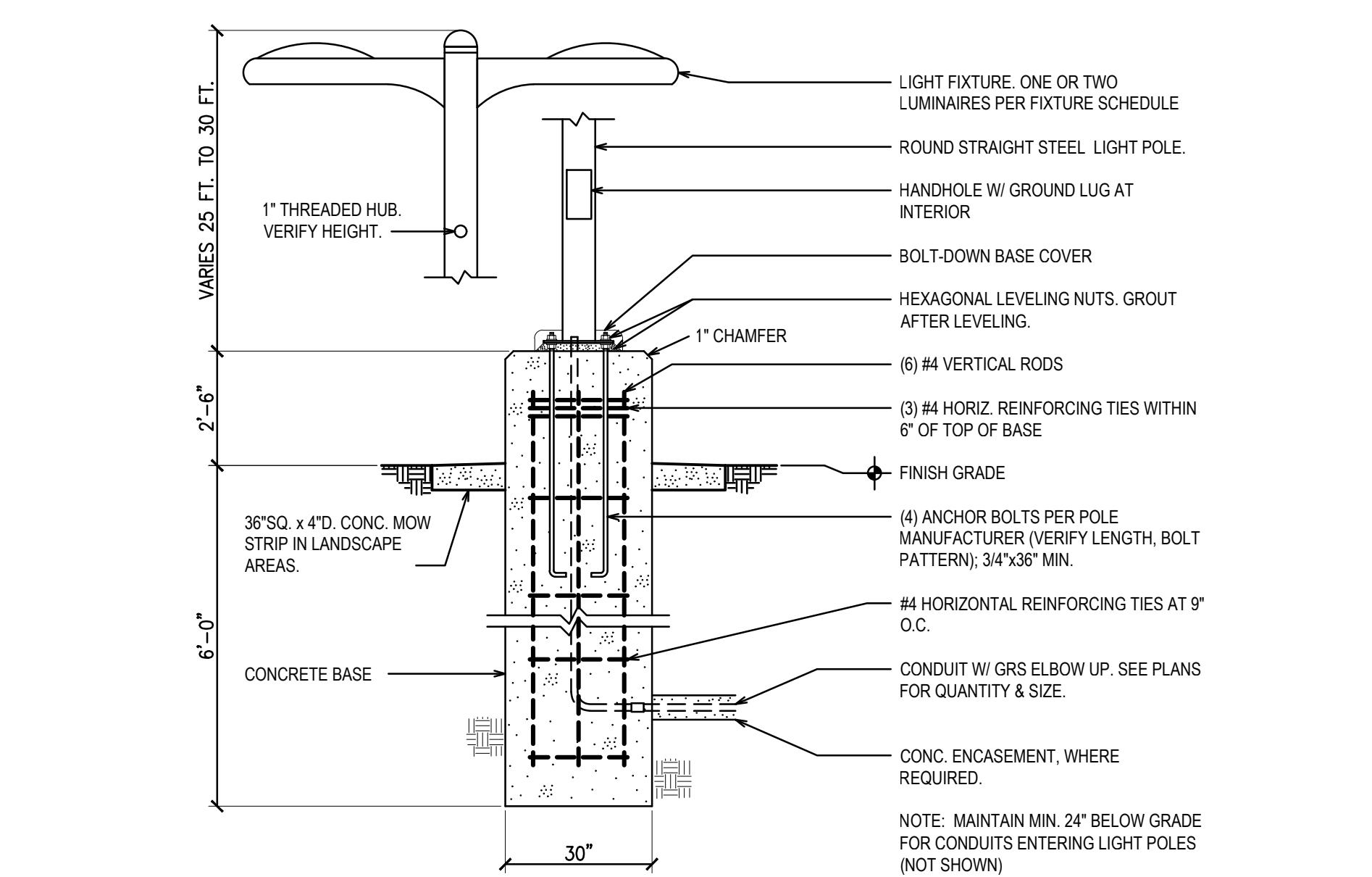


TYPE	MFG'R	MODEL	LAMPS	WATTS	VOLTS	MOUNTING	DETAIL	NOTES
A	LITHONIA	2FSI2 48L MVOLT E2I LP835 N100	LED	40.5	UNV	RECESSED	N8/E1.1	
AE	LITHONIA	2FSI2 48L MVOLT E2I LP835 N100EMG	LED	40.5	UNV	RECESSED	N8/E1.1	CONNECTED TO EM. LIGHTING PANEL
B20	LITHONIA	GRD LLP 20FT MSL8 80CRI 35K ID1500LMF 80/20 MINI1 ZT SCT F1/72A C110 DU	LED	255.0	UNV	PENDANT	J1/E1.1	
B20E	LITHONIA	GRD LLP 20FT MSL8 80CRI 35K ID1500LMF 80/20 MINI1 ZT SCT 2EC F1/72A C110 DU	LED	255.0	UNV	PENDANT	J1/E1.1	CONNECTED TO EM. LIGHTING PANEL & EM. POWERPACK
B40	LITHONIA	GRD LLP 40FT MSL8 80CRI 35K ID1500LMF 80/20 MINI1 ZT SCT F1/72A C110 DU	LED	510.0	UNV	PENDANT	J1/E1.1	
B40E	LITHONIA	GRD LLP 40FT MSL8 80CRI 35K ID1500LMF 80/20 MINI1 ZT SCT 3EC F1/72A C110 DU	LED	510.0	UNV	PENDANT	J1/E1.1	CONNECTED TO EM. LIGHTING PANEL & EM. POWERPACK
B68	LITHONIA	GRD LLP 68FT MSL8 80CRI 35K ID1500LMF 80/20 MINI1 ZT SCT F1/72A C110 DU	LED	867.0	UNV	PENDANT	J1/E1.1	
B68E	LITHONIA	GRD LLP 68FT MSL8 80CRI 35K ID1500LMF 80/20 MINI1 ZT SCT 4EC F1/72A C110 DU	LED	867.0	UNV	PENDANT	J1/E1.1	CONNECTED TO EM. LIGHTING PANEL & EM. POWERPACK
C8	LITHONIA	BLWP8 60LHE ADSM E2I LP835	LED	50.0	UNV	SURFACE	J8/E1.1	
D4	LITHONIA	LDN4 35/15 L04AR L55 MVOLT E2I	LED	17.5	UNV	RECESSED	N/A	
D6	LITHONIA	LDN6 35/25 L06AR L55 MVOLT E2I	LED	28.3	UNV	RECESSED	N/A	
D6E	LITHONIA	LDN6 35/25 L06AR L55 MVOLT E2I	LED	28.3	UNV	RECESSED	N/A	CONNECTED TO EM. LIGHTING PANEL & EM. POWERPACK
F5	MARK LIGHTING	SL4L LOP 5FT RLP WFL 90CRI 35K 800LMF MINI 277 ZT DPL	LED	40.0	277	RECESSED	N/A	VERIFY OAL AFTER FRAMING AND SEND TO FACTORY
F6	MARK LIGHTING	SL4L LOP 6FT RLP WFL 90CRI 35K 800LMF MINI 277 ZT DPL	LED	48.0	277	RECESSED	N/A	VERIFY OAL AFTER FRAMING AND SEND TO FACTORY
F7	MARK LIGHTING	SL4L LOP 7FT RLP WFL 90CRI 35K 800LMF MINI 277 ZT DPL	LED	56.0	277	RECESSED	N/A	VERIFY OAL AFTER FRAMING AND SEND TO FACTORY
F9	MARK LIGHTING	SL4L LOP 9FT RLP WFL 90CRI 35K 800LMF MINI 277 ZT DPL	LED	72.0	277	RECESSED	N/A	VERIFY OAL AFTER FRAMING AND SEND TO FACTORY
F11	MARK LIGHTING	SL4L LOP 11FT RLP WFL 90CRI 35K 800LMF MINI 277 ZT DPL	LED	88.0	277	RECESSED	N/A	VERIFY OAL AFTER FRAMING AND SEND TO FACTORY
GE	DEL RAY	CUSTOM PO # (SHERIFF'S BADGE)	LED		UNV	PENDANT	N/A	
K	LITHONIA	IBG 2FT 8000LM SEF AFL WD MVOLT G210 40K 80CRI NLTAIR2 RKOA RPP20D	LED	53.8	UNV	SURFACE	N/A	
KE	LITHONIA	IBG 2FT 8000LM SEF AFL WD MVOLT G210 40K 80CRI NLTAIR2 RKOA RPP20DER	LED	53.8	UNV	SURFACE	N/A	CONNECTED TO EM. LIGHTING PANEL
P1E	GOTHAM	EVO6VR 40/25 AR PPC MVOLT G210 DNA	LED	24.7	UNV	RECESSED	N/A	CONNECTED TO EM. LIGHTING PANEL & EM. POWERPACK
P2	GOTHAM	EVO6VR 40/10 AR PPC MVOLT G210 DNA	LED	9.6	UNV	RECESSED	N/A	
P3E	LUMINAIRE LED	DW1512 10W 4000K 120-277 OP BRZ WET	LED	10.0	UNV	WALL	N/A	CONNECTED TO EM. LIGHTING PANEL & EM. POWERPACK
MOUNT BELOW CANOPY AND ABOVE OPENING								
P4	LITHONIA	DSXW1 LED 20C 1000 40K T3M MVOLT PIRH1FC3V	LED	73.0	UNV	WALL	F1/E1.1	MOUNT AT +20" O"
S1	LITHONIA	RAD1 LED P5 40K SYM MVOLT RPA DNAXD / RSS 25 4B DM19RAD DNAXD	LED	121.9	UNV	25 FT. RSS POLE	A1/E1.1	PROVIDE 1" THREADED HUB FOR CAMS. VERIFY HEIGHT.
S2	LITHONIA	(2) RAD1 LED P5 40K SYM MVOLT RPA DNAXD / RSS 25 4B DM28RAD DNAXD	LED	243.9	UNV	25 FT. RSS POLE	A1/E1.1	PROVIDE 1" THREADED HUB FOR CAMS. VERIFY HEIGHT.
S3	LITHONIA	RAD1 LED P5 40K ASY MVOLT RPA DNAXD / RSS 25 4B DM19RAD DNAXD	LED	121.9	UNV	25 FT. RSS POLE	A1/E1.1	PROVIDE 1" THREADED HUB FOR CAMS. VERIFY HEIGHT.
S4	LITHONIA	(2) RAD1 LED P3 40K ASY MVOLT RPA DNAXD / RSS 25 4B DM28RAD DNAXD	LED	107.2	UNV	25 FT. RSS POLE	A1/E1.1	PROVIDE 1" THREADED HUB FOR CAMS. VERIFY HEIGHT.
S5	LITHONIA	(2) RSX2 LED P3 40K RS MVOLT RPA DNAXD / RSS 30FT 5B DM28AS DNAXD	LED	300.0	UNV	30 FT. RSS POLE	A1/E1.1	PROVIDE 1" THREADED HUB FOR CAMS. VERIFY HEIGHT.
S6	LITHONIA	RSX2 LED P2 40K R3 MVOLT RPA DNAXD / RSS 30FT 5B DM19AS DNAXD	LED	114.1	UNV	30 FT. RSS POLE	A1/E1.1	PROVIDE 1" THREADED HUB FOR CAMS. VERIFY HEIGHT.
S7	LITHONIA	CNY LED P0 40K MVOLT DDB	LED	27.0	UNV	SURFACE	N/A	
S8	HYDREL	M9420C B LED P3 35K MVOLT WFL FLC20SR 348 LSF LDIM BZ	LED	27.0	UNV	IN-GRADE	N/A	
S9	CALPIPE SECURITY	42"H, 3/4" WALL INSERT, DOME, SLOTTED, PARACLINE, LED, 277V	LED	23.0	277	BOLLARD	F6/E1.1	
X	LITHONIA	LE 5 1 G	LED	1.3	UNV	UNIVERSAL	N/A	SEE PLANS FOR CHEVRONS, NUMBER OF FACES
X2	LITHONIA	LE 5 2 G	LED	2.6	UNV	UNIVERSAL	N/A	SEE PLANS FOR CHEVRONS, NUMBER OF FACES

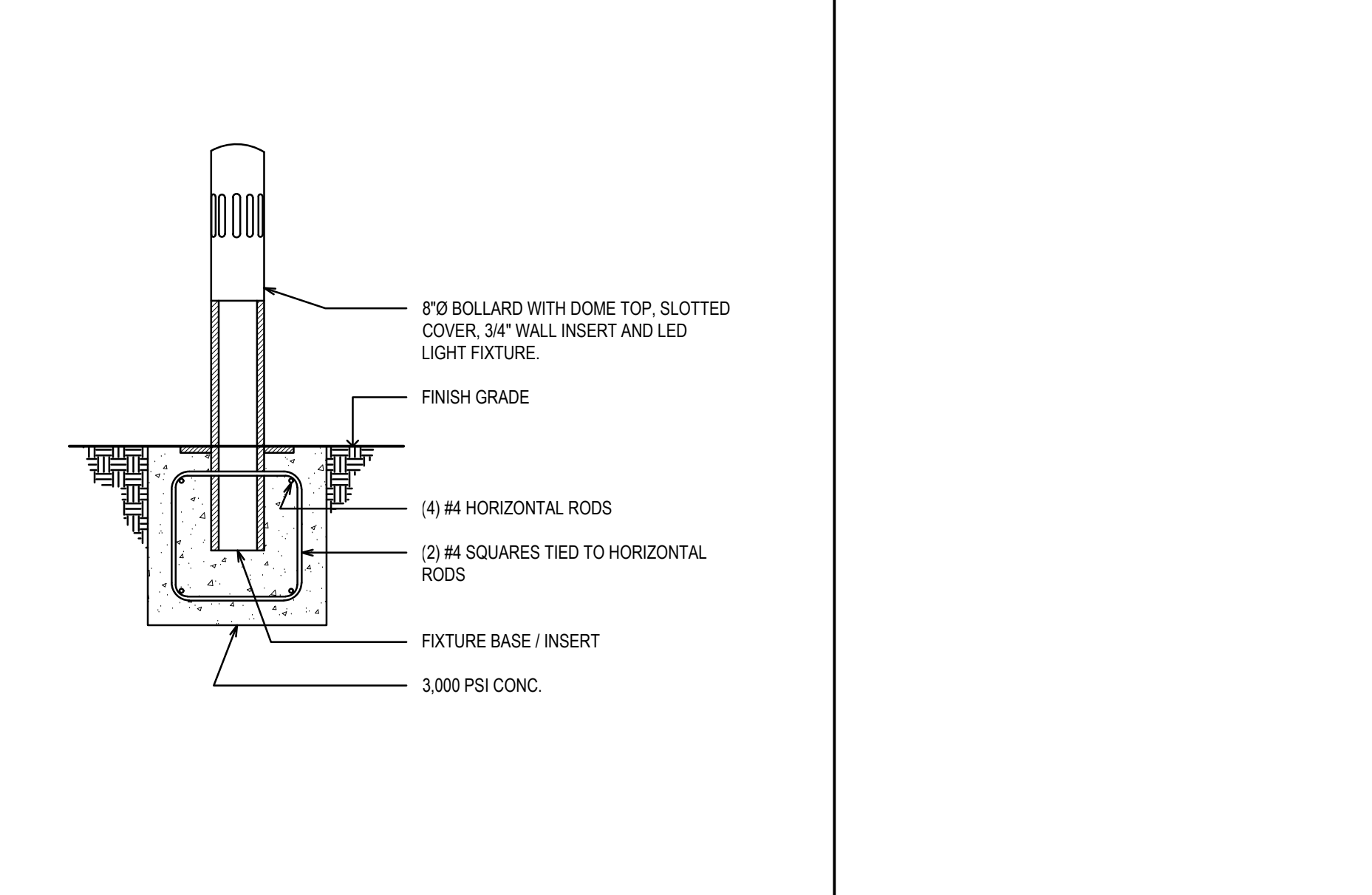
J1 Pendant Fixture Mounting Detail
Scale: None



F1 Fixture Wall Mounting Detail
Scale: None



J8 Fixture Surface Mounting Detail
Scale: None



F6 Security Bollard Detail
Scale: None



A1 Vehicle Area Pole Light Detail
Scale: None

J12 Fixture Schedule
Scale: None



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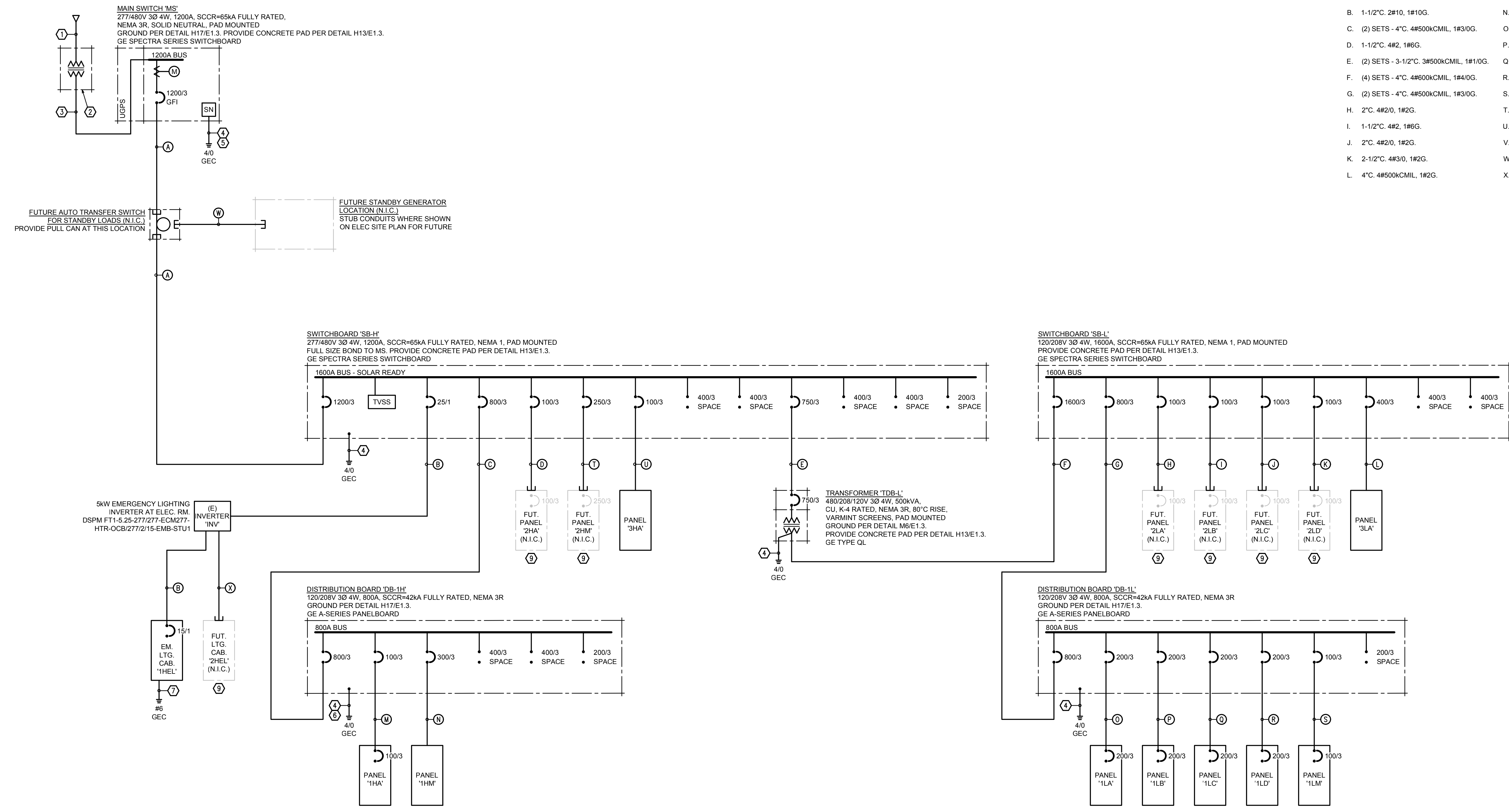
Project:
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
APN: 910-133-04, -05, and -06
ISSUE DATE: 6.1.2020
PROJECT NO: T80293 / 19003
FILE NAME: 19074 - Elec_Split Bid Set

Sheet Content:
LIGHT FIXTURE SCHEDULE AND DETAILS



Sheet No.
E1.1

File: 19074 - Elec_Split Bid Set.dwg - Plotted: 6/1/2020 1:31 PM



FEEDERS

A. (3) SETS - 4" C. #800KCMIL, 1#4/0G.	M. 1-1/2" C. #2, 1#6G.
B. 1-1/2" C. 2#10, 1#10G.	N. 3" C. 4#300KCMIL, 1#4G.
C. (2) SETS - 4" C. #850KCMIL, 1#3/0G.	O. 2-1/2" C. 4#4/0, 1#4G.
D. 1-1/2" C. #2, 1#6G.	P. 3" C. 4#250KCMIL, 1#4G.
E. (2) SETS - 3-1/2" C. 3#500KCMIL, 1#1/0G.	Q. 2-1/2" C. 4#4/0, 1#4G.
F. (4) SETS - 4" C. #800KCMIL, 1#4/0G.	R. 2" C. 4#3/0, 1#6G.
G. (2) SETS - 4" C. #850KCMIL, 1#3/0G.	S. 2" C. 4#1/0, 1#4G.
H. 2" C. 4#2/0, 1#2G.	T. 2-1/2" C. 4#4/0, 1#4G.
I. 1-1/2" C. #2, 1#6G.	U. 1-1/2" C. #2, 1#6G.
J. 2" C. 4#2/0, 1#2G.	V. 1-1/2" C. #6, 1#10G.
K. 2-1/2" C. 4#3/0, 1#2G.	W. (3) SETS - 4" C. WITH PULL LINES
L. 4" C. #850KCMIL, 1#2G.	X. 1" C. WITH PULL LINE

- LINE DIAGRAM KEY NOTES**
- 4" C. UTILITY PRIMARY.
 - UTILITY TRANSFORMER & CONCRETE PAD.
 - (4) 5" C. UTILITY SECONDARY PER PG&E.
 - GROUNDING ELECTRODE CONDUCTOR TO UFER, STRUCTURAL STEEL, METAL WATER PIPE, AND FIRE SPRINKLER RISER.
 - BOND MS TO SB-H AND SB-L WITH 1-1/2" C. W/ GREEN 4/0 COPPER CONDUCTOR.
 - BOND DB-1H TO DB-1L WITH 1-1/2" C. W/ GREEN 4/0 COPPER CONDUCTOR.
 - GROUND PER DETAIL H17/E1.3.
 - STANDBY EMERGENCY DIESEL GENERATOR 'GEN'.
 - STUB FOR FUTURE PANELBOARD / CABINET. SEE SHEET E2.1 FOR LOCATION.

NOTES

- SEE DETAIL M8/E1.3 FOR VOLTAGE DROP CALCULATIONS.

F1 Power Single Line Diagram



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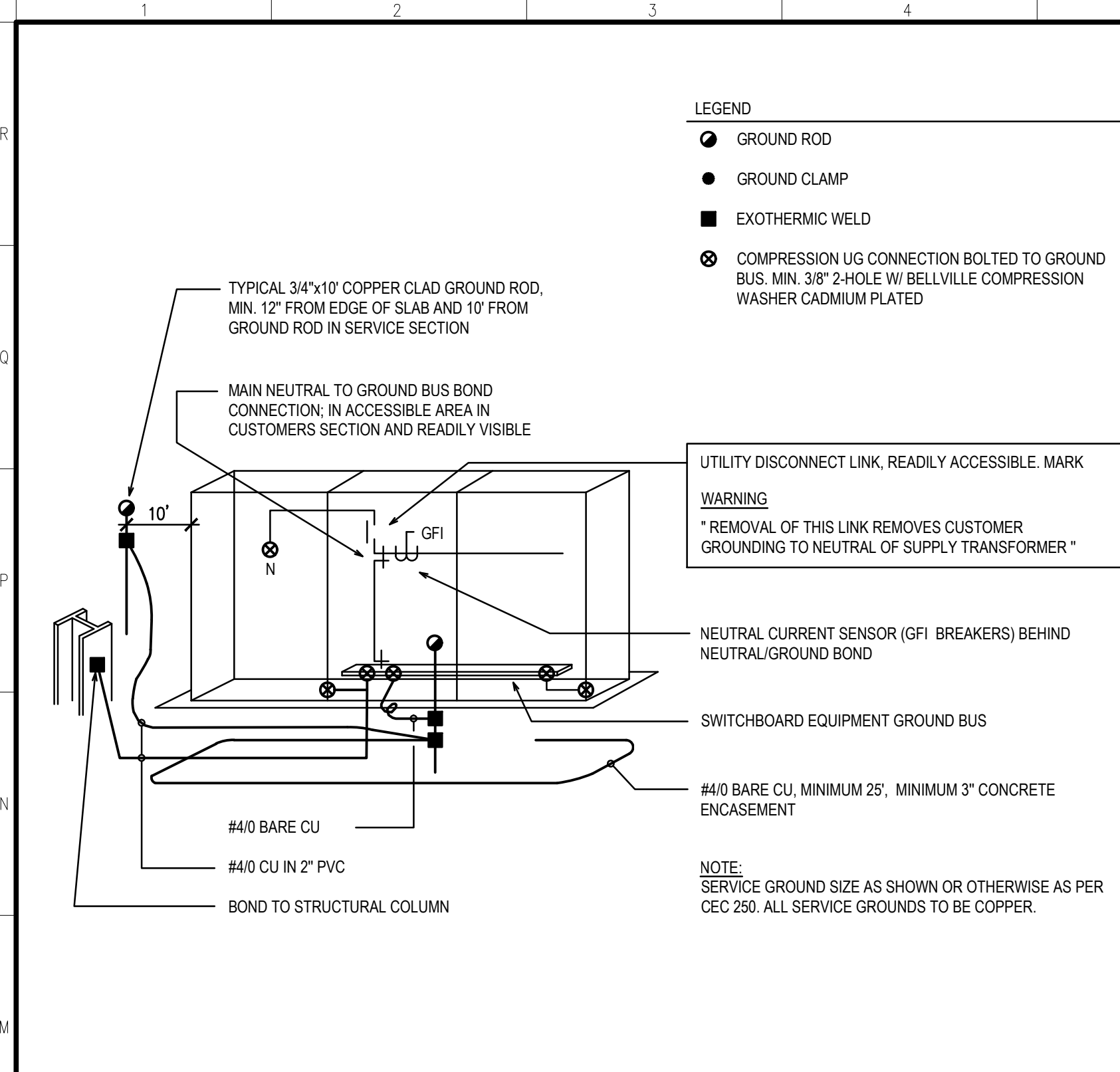
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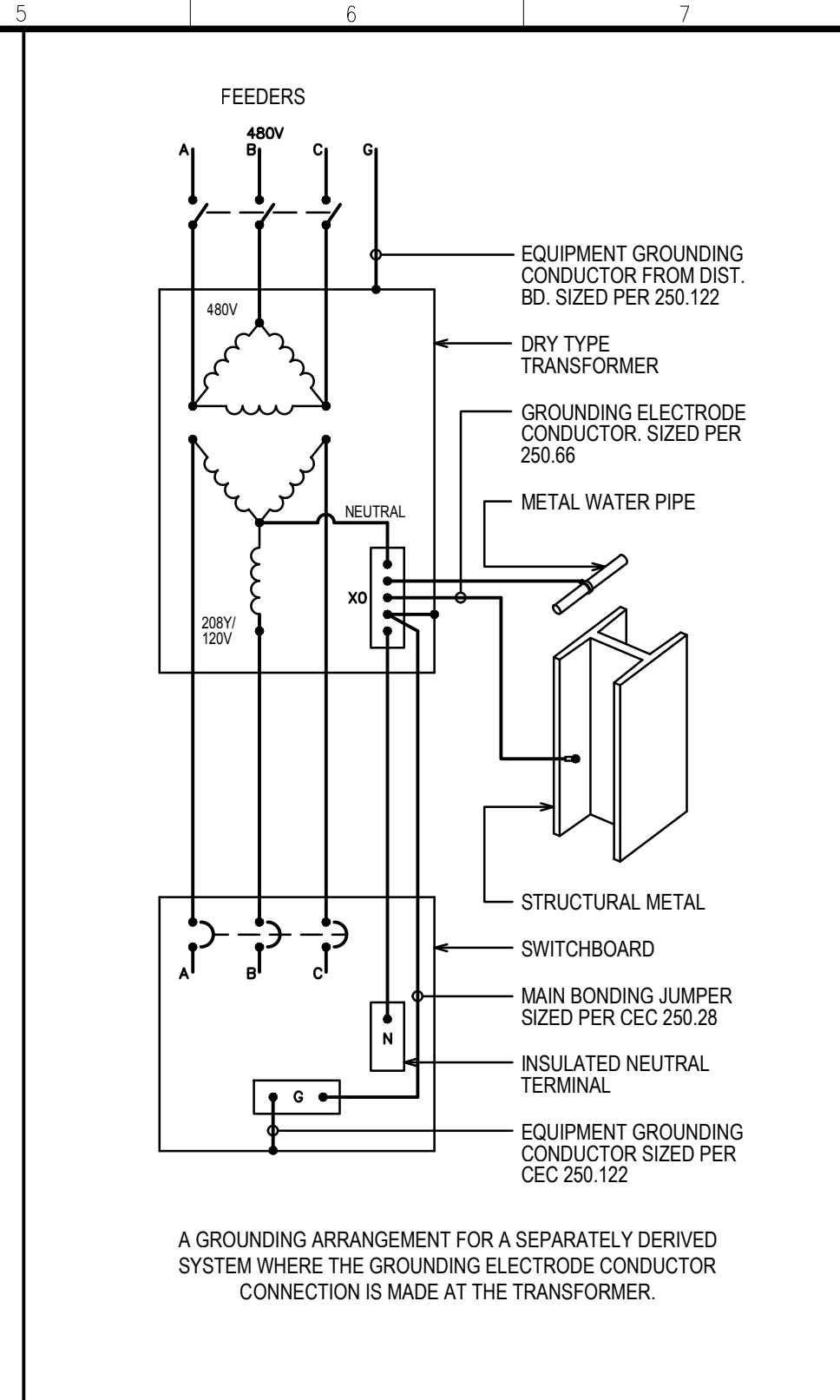
Sheet Content:
ELECTRICAL DETAILS AND SCHEDULES

Fresno County Department of Public Works and Planning
Capital Projects
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Sheet No.
E1.2



M1 Main Switchboard Grounding Detail
Scale: None



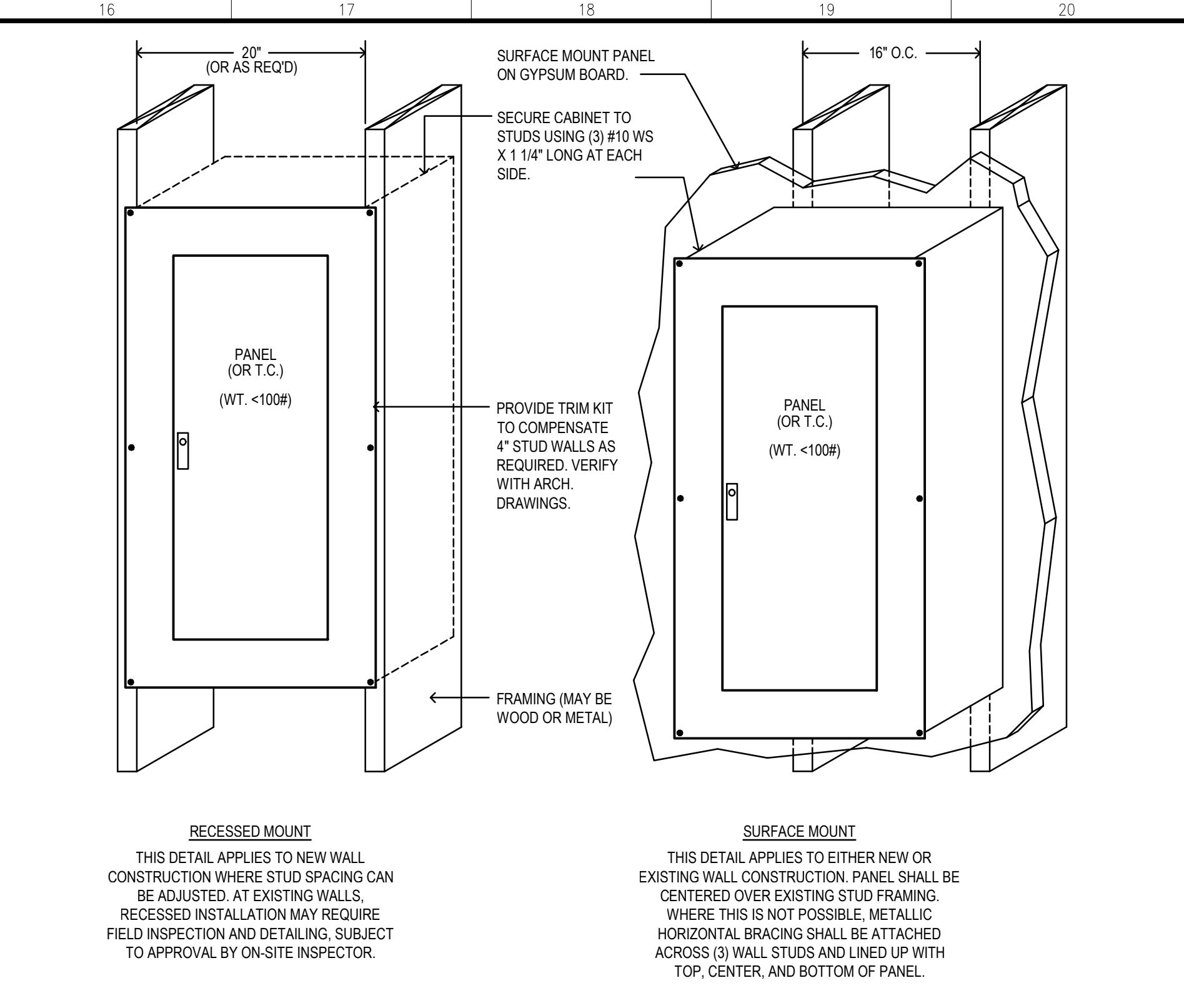
M6 Xfmr. Grounding Detail
Scale: None

No.	Feeder Origin	Feeder Destination	Potential at Origin (P _i) (Volts)	System	Design Current (Amps)	Raceway Type	Sets of Cond.	Conductor Trade Size	Conductor Cross-Sectional Area (CM)	Conductor Material	DC Conductor Material Constant (K)	Q	Distance (ft)	Voltage Drop (VD) (Volts)	Potential at Load (P _L) (Volts)	Percent Voltage Drop (%VD)
1	MS	SB-H	480.0	AC 3-Phase	1200	PVC	3	600 kCMIL	1800000	CU	12.9	1.0748	35	0.56	479.4	0.12
2	SB-H	DB-1H	479.4	AC 3-Phase	800	PVC	2	500 kCMIL	1000000	CU	12.9	1.0465	15	0.28	479.2	0.18
3	SB-H	XFMR TSB-L	479.4	AC 3-Phase	602	PVC	2	500 kCMIL	1000000	CU	12.9	1.0465	40	0.56	478.9	0.23
4	SB-H	PANEL 3HA	479.4	AC 3-Phase	100	Steel	1	2	66360	CU	12.9	1.0000	25	0.84	478.6	0.29
5	DB-1H	PANEL 1HA	479.2	AC 3-Phase	100	PVC	1	1/0	105600	CU	12.9	1.0000	3	0.06	479.1	0.19
6	DB-1H	PANEL 1HM	479.2	AC 3-Phase	200	Steel	1	300 kCMIL	300000	CU	12.9	1.0490	3	0.05	479.1	0.18
7	XFMR TSB-L	SB-L	208.0	AC 3-Phase	1389	PVC	4	600 kCMIL	2400000	CU	12.9	1.0748	35	0.49	207.5	0.23
8	SB-L	DB-1L	207.5	AC 3-Phase	800	PVC	2	500 kCMIL	1000000	CU	12.9	1.0465	60	1.12	206.4	0.77
9	SB-L	PANEL 3LA	207.5	AC 3-Phase	400	PVC	1	500 kCMIL	500000	CU	12.9	1.0465	25	0.47	207.0	0.46
10	DB-1L	PANEL 1LA	206.4	AC 3-Phase	200	PVC	1	4/0	211600	CU	12.9	1.0197	100	2.15	204.2	1.81
11	DB-1L	PANEL 1LB	206.4	AC 3-Phase	200	PVC	1	250 kCMIL	250000	CU	12.9	1.0097	125	2.26	204.1	1.86
12	DB-1L	PANEL 1LC	206.4	AC 3-Phase	200	PVC	1	4/0	211600	CU	12.9	1.0197	95	2.05	204.3	1.76
13	DB-1L	PANEL 1LD	206.4	AC 3-Phase	200	PVC	1	3/0	167800	CU	12.9	1.0052	60	1.61	204.8	1.55
14	DB-1L	PANEL 1LM	206.4	AC 3-Phase	100	PVC	1	1/0	105600	CU	12.9	1.0000	100	2.12	204.3	1.79

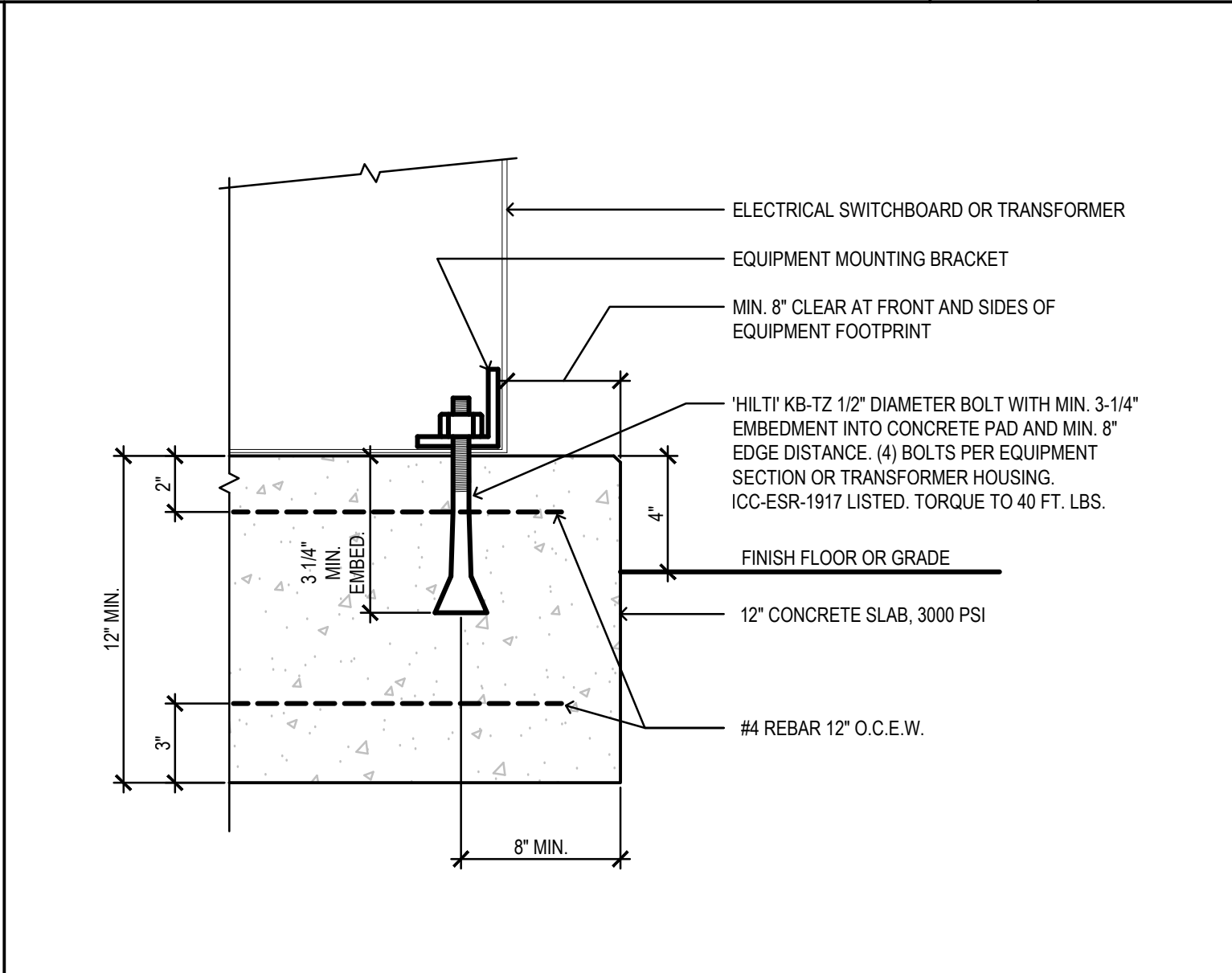
Formulae
 VD (three phase) = $\sqrt{3} \times K \times I \times D / CM$
 VD (single phase) = $2 \times K \times I \times D / CM$
 VD (DC) = $2 \times K \times I \times D / CM$
 %VD = VD / P_i x 100

Definitions
 VD = Voltage Drop (Volts)
 K = DC Conductor Material Constant (12.9 for Copper, 21.2 for Aluminum)
 Q = AC Adjustment Factor for conductors sized #2/0 AWG and larger (R_u / R_{dc})
 I = Current (Amps)
 D = Distance to Load (ft)
 CM = Conductor Cross-Sectional Area (Circular Mils)
 P = Potential (Volts)

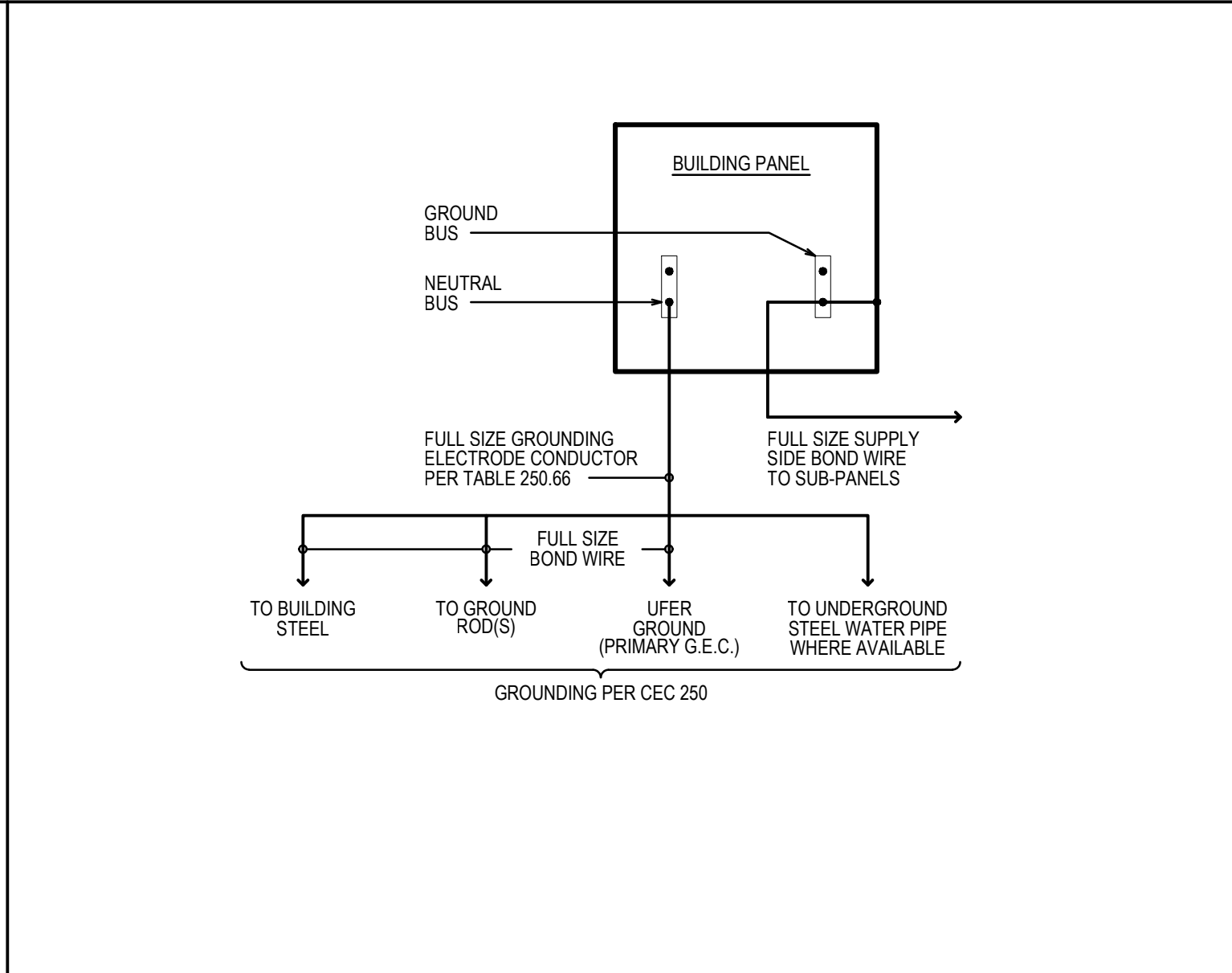
M8 Voltage Drop Calculations
Scale: None



M16 Panel Mounting Detail
Scale: None



H13 Concrete Equipment Pad Detail
Scale: None



H17 Building Panel Grounding Detail
Scale: None

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Sheet No.
E1.3

PANEL "1HA" SCHEDULE										277/480V 3Φ 4W		INDOOR / FLUSH	
CKT. NO.	DESCRIPTION	BREAKER		VA	Φ	VA	BREAKER		DESCRIPTION	CKT. NO.			
		AMPS	POLE(S)				AMPS	POLE(S)					
1	PUBLIC - LIGHTS	15	1	1709	A	1020	15	1	WORKSTATION - LIGHTS	2			
3	OFFICE/BREAK ROOM - LIGHTS	15	1	1206	B	1275	15	1	WORKSTATION - LIGHTS	4			
5	STAFF/RESTROOM - LIGHTS	15	1	1974	C	2686	20	1	WORKSTATION/HALL - LIGHTS	6			
7	OFFICES - LIGHTS	15	1	1458	A	474	15	1	CORRIDOR - LIGHTS	8			
9	OFFICES - LIGHTS	15	1	1175	B	1406	15	1	BUILDING PERIMETER - LIGHTS	10			
11	TRAINING - LIGHTS	15	1	2316	C		15	1	SPARE	12			
13	SPACE ONLY				A		15	1	SPARE	14			
15	SPACE ONLY				B		15	1	SPARE	16			
17	SPACE ONLY				C		15	1	SPARE	18			
19	SPACE ONLY				A				SPACE ONLY	20			
21	SPACE ONLY				B				SPACE ONLY	22			
23	SPACE ONLY				C				SPACE ONLY	24			
25	SPACE ONLY				A				SPACE ONLY	26			
27	SPACE ONLY				B				SPACE ONLY	28			
29	SPACE ONLY				C				SPACE ONLY	30			
31					A					32			
33					B					34			
35					C					36			
37					A					38			
39					B					40			
41					C					42			
LOAD SUMMARY:		Φ A		4661 VA	BUSING:		100 AMPS						
		Φ B		5152 VA	MAIN:		100 AMPS						
CONNECTED LOAD:		Φ C		6976 VA	AIC RATING:		42kAIC						
MAX CURRENT:				16.8 kVA	MFGR:		GE A-SERIES						
				25 A									

PANEL "3HA" SCHEDULE										277/480V 3Φ 4W		INDOOR / FLUSH	
CKT. NO.	DESCRIPTION	BREAKER		VA	Φ	VA	BREAKER		DESCRIPTION	CKT. NO.			
		AMPS	POLE(S)				AMPS	POLE(S)					
1	SITE LIGHTING - SOUTHWEST	15	1	1500	A	5000	30	2	POWER PEDESTAL 'PP1'	2			
3	SITE LIGHTING - NORTHWEST	15	1	2220	B	5000	--	--		4			
5	SITE LIGHTING - SOUTHWEST	15	1	975	C	5000	30	2	POWER PEDESTAL 'PP2'	6			
7	SITE LIGHTING - COURTYARD	15	1	107	A	5000	--	--		8			
9	SITE LIGHTING - NORTHEAST	15	1	228	B				SPACE ONLY	10			
11	SPARE	15	1		C				SPACE ONLY	12			
13	SPACE ONLY				A				SPACE ONLY	14			
15	SPACE ONLY				B				SPACE ONLY	16			
17	SPACE ONLY				C				SPACE ONLY	18			
19					A					20			
21					B					22			
23					C					24			
25					A					26			
27					B					28			
29					C					30			
31					A					32			
33					B					34			
35					C					36			
37					A					38			
39					B					40			
41					C					42			
LOAD SUMMARY:		Φ A		11607 VA	BUSING:		100 AMPS						
		Φ B		7448 VA	MAIN:		100 AMPS						
CONNECTED LOAD:		Φ C		5975 VA	AIC RATING:		42kAIC						
MAX CURRENT:				25.0 kVA	MFGR:		GE A-SERIES						
				42 A									

PANEL "1HM" SCHEDULE										277/480V 3Φ 4W		INDOOR / FLUSH	
CKT. NO.	DESCRIPTION	BREAKER		VA	Φ	VA	BREAKER		DESCRIPTION	CKT. NO.			
		AMPS	POLE(S)				AMPS	POLE(S)					
1	CONDENSING UNIT CU-1	30	3	5263	A	11080	50	3	ENERGY RECOVERY VENTILATOR ERV-1	2			
3	----	--	--	5263	B	11080	--	--		4			
5	----	--	--	5263	C	11080	--	--		6			
7	CONDENSING UNIT CU-1	25	3	3878	A	6000	40	3	WATER HEATER EWH-1	8			
9	----	--	--	3878	B	6000	--	--		10			
11	----	--	--	3878	C	6000	--	--		12			
13	CONDENSING UNIT CU-2	35	3	6094	A				SPACE ONLY	14			
15	----	--	--	6094	B				SPACE ONLY	16			
17	----	--	--	6094	C				SPACE ONLY	18			
19	CONDENSING UNIT CU-2	30	3	5263	A				SPACE ONLY	20			
21	----	--	--	5263	B				SPACE ONLY	22			
23	----	--	--	5263	C				SPACE ONLY	24			
25	CONDENSING UNIT CU-3	35	3	6094	A				SPACE ONLY	26			
27	----	--	--	6094	B				SPACE ONLY	28			
29	----	--	--	6094	C				SPACE ONLY	30			
31	CONDENSING UNIT CU-3	30	3	5263	A				SPACE ONLY	32			
33	----	--	--	5263	B				SPACE ONLY	34			
35	----	--	--	5263	C				SPACE ONLY	36			
37	SPACE ONLY				A				SPACE ONLY	38			
39	SPACE ONLY				B				SPACE ONLY	40			
41	SPACE ONLY				C				SPACE ONLY	42			
LOAD SUMMARY:		Φ A		48935 VA	BUSING:		400 AMP						
		Φ B		48935 VA	MAIN:		LUGS ONLY						
CONNECTED LOAD:		Φ C		48935 VA	AIC RATING:		42kAIC						
MAX CURRENT:				146.8 kVA	MFGR:		GE A-SERIES						
				177 A									

PANEL "1HEL" SCHEDULE										277/480V 3Φ 4W		INDOOR / FLUSH	
CKT. NO.	DESCRIPTION	BREAKER		VA	Φ	VA	BREAKER		DESCRIPTION	CKT. NO.			
		AMPS	POLE(S)				AMPS	POLE(S)					
1	PUBLIC AREA - LIGHTS	15	1	332	A	1077	15	1	WORKSTATION - LIGHTS	2			
3	OFFICE/BREAK ROOM - LIGHTS	15	1	243	B	405	15	1	TRAINING/DATA RACK - LIGHTS	4			
5	CORRIDOR/RESTROOM - LIGHTS	15	1	559	C	164	15	1	BUILDING PERIMETER - LIGHTS	6			
7	SPARE	15	1		A				SPACE ONLY	8			
9	SPACE ONLY				B				SPACE ONLY	10			
11	SPACE ONLY				C				SPACE ONLY	12			
13	SPACE ONLY				A				SPACE ONLY	14			
15	SPACE ONLY				B				SPACE ONLY	16			
17	SPACE ONLY				C				SPACE ONLY	18			
19					A					20			
21					B					22			
23					C					24			
25					A					26			
27					B					28			
29					C					30			
31					A					32			
33					B					34			
35					C					36			
37					A					38			
39					B					40			
41					C					42			
LOAD SUMMARY:		Φ A		1408 VA	BUSING:		100 AMPS						
		Φ B		648 VA	MAIN:		50 AMPS						
CONNECTED LOAD:		Φ C		723 VA	AIC RATING:		42kAIC						
MAX CURRENT:				2.8 kVA	MFGR:		GE A-SERIES						
				5 A									



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Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 910-133-04 -05, and -06
 ISSUE DATE: 6.1.2020
 PROJECT NO: T80293 / 19003
 FILE NAME: 19074 - Elec_Split Bid Set

Sheet Content:
 PANEL SCHEDULES

Fresno County Department of
 Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
E1.4

PANEL "1LA" SCHEDULE									
120/208V 3Φ 4W					INDOOR / FLUSH				
CKT. NO.	DESCRIPTION	BREAKER AMPS (POLE(S))	VA	Φ	VA	BREAKER AMPS (POLE(S))	DESCRIPTION	CKT. NO.	
1	OUTLETS - PUBLIC SS101, 106, 104	20 1	720	A	900	20 1	OUTLETS - PUBLIC CONFIRM SS107	2	
3	OUTLETS - PUBLIC SS101	20 1	300	B	720	20 1	OUTLETS - PUBLIC CONFIRM SS107	4	
5	OUTLETS - PUBLIC SS101	20 1	180	C	900	20 1	OUTLETS - PUBLIC CONFIRM SS107	6	
7	OUTLETS - RECEPTION SS103	20 1	720	A	360	20 1	OUTLETS - PUBLIC AREA SECURED SS105	8	
9	OUTLETS - RECEPTION SS103	20 1	720	B	180	20 1	OUTLETS - PUBLIC AREA SECURED SS105	10	
11	OUTLETS - ADMIN CONF SS108	20 1	540	C	180	20 1	OUTLETS - PUBLIC AREA SECURED SS105	12	
13	OUTLETS - ADMIN CONF SS108	20 1	900	A	720	20 1	OUTLETS - WORKSTATION A SS110	14	
15	OUTLETS - ADMIN CONF SS108	20 1	600	B	720	20 1	OUTLETS - WORKSTATION A SS110	16	
17	OUTLETS - ADMIN ASST OFFICE SS108	20 1	540	C	720	20 1	OUTLETS - WORKSTATION A SS110	18	
19	OUTLETS - ADMIN ASST OFFICE SS108	20 1	1080	A	720	20 1	OUTLETS - WORKSTATION A SS110	20	
21	SPACE ONLY			B		20 1	SPARE	22	
23	SPACE ONLY			C		20 1	SPARE	24	
25	SPACE ONLY			A		20 1	SPARE	26	
27	SPACE ONLY			B		20 1	SPARE	28	
29	SPACE ONLY			C	540	20 1	OUTLETS - DATA RACKS, SUPPLY STORAGE	30	
31	SPACE ONLY			A			SPACE ONLY	32	
33	SPACE ONLY			B			SPACE ONLY	34	
35	SPACE ONLY			C			SPACE ONLY	36	
37	SPACE ONLY			A			SPACE ONLY	38	
39	SPACE ONLY			B			SPACE ONLY	40	
41	SPACE ONLY			C			SPACE ONLY	42	
LOAD SUMMARY:		Φ A	6120 VA	BUSING:		200 AMPS			
		Φ B	3240 VA	MAIN:		200 AMPS			
CONNECTED LOAD:		Φ C	3600 VA	AIC RATING:		35KAIC			
MAX CURRENT:			13.0 kVA	MFR:		GE A-SERIES			
			51 A						

PANEL "1LB" SCHEDULE									
120/208V 3Φ 4W					INDOOR / FLUSH				
CKT. NO.	DESCRIPTION	BREAKER AMPS (POLE(S))	VA	Φ	VA	BREAKER AMPS (POLE(S))	DESCRIPTION	CKT. NO.	
1	OUTLETS - EVIDENCE PREP SS153	20 1	180	A	540	20 1	OUTLETS - WORKSTATION B SS156	2	
3	OUTLETS - INTERVIEW ROOM SS153	20 1	180	B	540	20 1	OUTLETS - WORKSTATION B SS156	4	
5	OUTLETS - INTERVIEW ROOM SS154	20 1	360	C	540	20 1	OUTLETS - WORKSTATION B SS156	6	
7	OUTLETS - SECURE TRAINING SUPPLY STORAGE	20 1	720	A	540	20 1	OUTLETS - WORKSTATION B SS156	8	
9	OUTLETS - SECURE TRAINING SUPPLY STORAGE	20 1	540	B	540	20 1	OUTLETS - WORKSTATION B SS156	10	
11	OUTLETS - OFFICE SS151, HALL SS157	20 1	1260	C	540	20 1	OUTLETS - WORKSTATION B SS156	12	
13	OUTLETS - OFFICE SS150	20 1	1080	A	540	20 1	OUTLETS - WORKSTATION B SS156	14	
15	OUTLETS - OFFICE SS149	20 1	1260	B	540	20 1	OUTLETS - WORKSTATION B SS156	16	
17	OUTLETS - OFFICE SS148	20 1	1080	C	720	20 1	OUTLETS - WORKSTATION B SS156	18	
19	OUTLETS - OFFICE SS161	20 1	1260	A	720	20 1	OUTLETS - WORKSTATION B SS156	20	
21	OUTLETS - OFFICE SS161	20 1	720	B	720	20 1	OUTLETS - WORKSTATION B SS156	22	
23	OUTLETS - OFFICE SS160	20 1	1080	C	720	20 1	OUTLETS - WORKSTATION B SS156	24	
25	OUTLETS - OFFICE SS160	20 1	360	A			SPARE	26	
27	OUTLETS - OFFICE SS159	20 1	1260	B			SPARE	28	
29	OUTLETS - OFFICE SS158	20 1	900	C			SPARE	30	
31	OUTLETS - OFFICE SS158	20 1	720	A			SPARE	32	
33	SPACE ONLY			B			SPARE	34	
35	SPACE ONLY			C			SPARE	36	
37	SPACE ONLY			A			SPACE ONLY	38	
39	SPACE ONLY			B			SPACE ONLY	40	
41	SPACE ONLY			C			SPACE ONLY	42	
LOAD SUMMARY:		Φ A	6660 VA	BUSING:		200 AMPS			
		Φ B	6300 VA	MAIN:		200 AMPS			
CONNECTED LOAD:		Φ C	7200 VA	AIC RATING:		35KAIC			
MAX CURRENT:			20.2 kVA	MFR:		GE A-SERIES			
			60 A						

PANEL "1LC" SCHEDULE									
120/208V 3Φ 4W					INDOOR / FLUSH				
CKT. NO.	DESCRIPTION	BREAKER AMPS (POLE(S))	VA	Φ	VA	BREAKER AMPS (POLE(S))	DESCRIPTION	CKT. NO.	
1	OUTLETS - OFFICE SS147	20 1	1080	A	720	20 1	OUTLETS - WORKSTATION D	2	
3	OUTLETS - OFFICE SS146	20 1	1080	B	900	20 1	OUTLETS - SS140, SS139, SS138	4	
5	OUTLETS - OFFICE SS145	20 1	1260	C	900	20 1	OUTLETS - INV STAFF PROPERTY SS137	6	
7	OUTLETS - OFFICE SS144	20 1	1080	A	720	20 1	OUTLETS - INV STAFF DET SUPPLY STOR SS136	8	
9	OUTLETS - OFFICE SS143	20 1	1080	B	720	20 1	OUTLETS - INV STAFF DET SUPPLY STOR SS135	10	
11	OUTLETS - WORKSTATION C SS132	20 1	720	C	180	20 1	OUTLETS - ADMIN SUPPLY STORAGE SS131	12	
13	OUTLETS - WORKSTATION C SS132	20 1	720	A	360	20 1	OUTLETS - USA SUPPLY STORAGE SS133	14	
15	OUTLETS - WORKSTATION C SS132	20 1	720	B	180	20 1	OUTLETS - STORAGE/ARMORY SS134	16	
17	OUTLETS - WORKSTATION C SS132	20 1	720	C	720	20 1	OUTLETS - SECURE TRAINING RECORDS SS130	18	
19	MODULAR FURNITURE - WORK STATION D	20 1	360	A	720	20 1	OUTLETS - SECURE TRAINING ROOM SS129	20	
21	MODULAR FURNITURE - WORK STATION D	20 1	360	B	540	20 1	OUTLETS - SECURE TRAINING ROOM SS129	22	
23	MODULAR FURNITURE - WORK STATION D	20 1	360	C		20 1	SPARE	24	
25	MODULAR FURNITURE - WORK STATION D	20 1	360	A		20 1	SPARE	26	
27	SPACE ONLY			B		20 1	SPARE	28	
29	SPACE ONLY			C		20 1	SPARE	30	
31	SPACE ONLY			A		20 1	SPARE	32	
33	SPACE ONLY			B		20 1	SPARE	34	
35	SPACE ONLY			C		20 1	SPARE	36	
37	SPACE ONLY			A			SPACE ONLY	38	
39	SPACE ONLY			B			SPACE ONLY	40	
41	SPACE ONLY			C			SPACE ONLY	42	
LOAD SUMMARY:		Φ A	6120 VA	BUSING:		200 AMPS			
		Φ B	5580 VA	MAIN:		200 AMPS			
CONNECTED LOAD:		Φ C	4860 VA	AIC RATING:		35KAIC			
MAX CURRENT:			16.6 kVA	MFR:		GE A-SERIES			
			51 A						

PANEL "1LD" SCHEDULE									
120/208V 3Φ 4W					INDOOR / FLUSH				
CKT. NO.	DESCRIPTION	BREAKER AMPS (POLE(S))	VA	Φ	VA	BREAKER AMPS (POLE(S))	DESCRIPTION	CKT. NO.	
1	OUTLETS - BREAK ROOM SS115	20 1	180	A	360	20 1	OUTLETS - PHYSICAL TRAINING SS120	2	
3	OUTLETS - BREAK ROOM SS115	20 1	180	B	180	20 1	OUTLETS - PHYSICAL TRAINING SS120	4	
5	OUTLETS - BREAK ROOM SS115	20 1	180	C	180	20 1	OUTLETS - PHYSICAL TRAINING SS120	6	
7	OUTLETS - BREAK ROOM SS115	20 1	180	A	180	20 1	OUTLETS - PHYSICAL TRAINING SS120	8	
9	OUTLETS - BREAK ROOM SS115	20 1	180	B	360	20 1	OUTLETS - PHYSICAL TRAINING SS120	10	
11	OUTLETS - BREAK ROOM SS115	20 1	180	C	180	20 1	OUTLETS - PHYSICAL TRAINING SS120	12	
13	OUTLETS - BREAK ROOM SS115	20 1	360	A	180	20 1	OUTLETS - PHYSICAL TRAINING SS120	14	
15	OUTLETS - BREAK ROOM SS115	20 1	1000	B	180	20 1	OUTLETS - PHYSICAL TRAINING SS120	16	
17	OUTLETS - BREAK ROOM SS115	20 1	180	C	180	20 1	OUTLETS - PHYSICAL TRAINING SS120	18	
19	OUTLETS - BREAK ROOM SS115	20 1	1000	A	180	20 1	OUTLETS - PHYSICAL TRAINING SS120	20	
21	OUTLETS - BREAK ROOM SS115	20 1	720	B	180	20 1	OUTLETS - PHYSICAL TRAINING SS120	22	
23	OUTLETS - SPECIALITY UNIT 1 OFFICE SS114	20 1	540	C	600	20 1	OUTLETS - PHYSICAL TRAINING SS120	24	
25	OUTLETS - SPECIALITY UNIT 1 OFFICE SS114	20 1	540	A	540	20 1	TRAINING ROOM B SS117B, A SS117A	26	
27	OUTLETS - SPECIALITY UNIT 1 OFFICE SS114	20 1	180	B	720	20 1	TRAINING ROOM B SS117B, A SS117A	28	
29	OUTLETS - SPECIALITY UNIT 1 OFFICE SS114	20 1	180	C	720	20 1	TRAINING ROOM B SS117B, A SS117A	30	
31	OUTLETS - SPECIALITY UNIT 1 OFFICE SS114	20 1	180	A	360	20 1	OUTLETS - SS127, SS126	32	
33	SPARE	20 1		B	180	20 1	OUTLETS - JAN/STOR SS125	34	
35	SPARE	20 1		C	360	20 1	OUTLETS - LACTATION SS124, CORRIDOR B SS118	36	
37	SPARE	20 1		A	180	20 1	OUTLETS - CORRIDOR B SS118	38	
39	SPARE	20 1		B	20 1		SPARE	40	
41	SPARE	20 1		C	200	15 1	* FIRE SPRINKLER RISER BELL	42	
43	SPACE ONLY			A			SPACE ONLY	44	
45	SPACE ONLY			B			SPACE ONLY	46	
47	SPACE ONLY			C			SPACE ONLY	48	
49	SPACE ONLY			A			SPACE ONLY	50	
51	SPACE ONLY			B			SPACE ONLY	52	
53	SPACE ONLY			C			SPACE ONLY	54	
LOAD SUMMARY:		Φ A	4420 VA	BUSING:		200 AMPS			
		Φ B	4060 VA	MAIN:		200 AMPS			
CONNECTED LOAD:		Φ C	3680 VA	AIC RATING:		35KAIC			
MAX CURRENT:			12.2 kVA	MFR:		GE A-SERIES			
			37 A	NOTE:		PROVIDE RED LOCK-ON DEVICE			

PANEL "1LM" SCHEDULE									
120/208V 3Φ 4W					INDOOR / FLUSH				
CKT. NO.	DESCRIPTION	BREAKER AMPS (POLE(S))	VA	Φ	VA	BREAKER AMPS (POLE(S))	DESCRIPTION	CKT. NO.	
1	INDOOR UNITS - IDU-1, 10	20 1	324	A	168	15 2	BRANCH SELECTOR UNIT BSU-2	2	
3	INDOOR UNITS - IDU-11, 4, 10, 2	20 1	672	B	168	-- --	BRANCH SELECTOR UNIT BSU-2	4	
5	INDOOR UNITS - IDU-6, 3, 3, 3, 1, 3	20 1	564	C	168	15 2	BRANCH SELECTOR UNIT BSU-2	6	
7	INDOOR UNITS - IDU-10, 2, 10, 9, 8	20 1	912	A	168	-- --	BRANCH SELECTOR UNIT BSU-1	8	
9	INDOOR UNITS - IDU-4, 1, 1, 1, 1, 1, 1, 3	20 1	672	B	156	15 2	BRANCH SELECTOR UNIT BSU-1	10	
11	INDOOR UNITS - IDU-2, 6, 10, 10	20 1	732	C	156	-- --	CONDENSER C-1A	12	
13	INDOOR UNITS - IDU-3, 1, 1	20 1	228	A	1848	25 2	CONDENSER C-1A	14	
15	INDOOR UNITS - IDU-10, 6, 3, 6, 1	20 1	720	B	1848	-- --	CONDENSER C-1B	16	
17	INDOOR UNITS - IDU-6, 6, 9, 9, 1	20 1	744	C	1848	25 2	CONDENSER C-1B	18	
19	COMPUTER RM. UNIT CRAC-1A	15 2	336	A	1848	-- --	SPACE ONLY	20	
21	-----	-- --	336	B			SPACE ONLY	22	
23	COMPUTER RM. UNIT CRAC-1B	15 2	336	C			SPACE ONLY	24	
25	-----	-- --	336	A			SPACE ONLY	26	
27	SPARE	20 1		B			SPACE ONLY	28	
29	SPARE	20 1		C			SPACE ONLY	30	
31	SPARE	20 1		A	20 1		SPACE ONLY	32	
33	SPARE	20 1		B	20 1		SPACE ONLY	34	
35	SPACE ONLY	20 1		C	500	15 1	CU-3 CONTROL PANEL	36	
37	SPACE ONLY			A	500	15 1	CU-2 CONTROL PANEL	38	
39	SPACE ONLY			B	500	15 1	CU-1 CONTROL PANEL	40	
41	SPACE ONLY			C	500	15 1	EMS PANEL	42	
LOAD SUMMARY:		Φ A	6668 VA	BUSING:		100 AMPS			
		Φ B	5072 VA	MAIN:		100 AMPS			
CONNECTED LOAD:		Φ C	5548 VA	AIC RATING:		35KAIC			
MAX CURRENT:			17.3 kVA	MFR:		GE A-SERIES			
			56 A						

PANEL "3LA" SCHEDULE									
120/208V 3Φ 4W					INDOOR / FLUSH				
CKT. NO.	DESCRIPTION	BREAKER AMPS (POLE(S))	VA	Φ	VA	BREAKER AMPS (POLE(S))	DESCRIPTION	CKT. NO.	
1	FUT. GENERATOR BATTERY CHARGER	20 2	500	A	4800	60 2	(F) ELECTRIC VEHICLE CHARGER	2	
3	FUT. GENERATOR JACKET HEATER	20 2	2000	B	4800	-- --	(F) ELECTRIC VEHICLE CHARGER	4	
5	-----	-- --	2000	C	4800	60 2	(F) ELECTRIC VEHICLE CHARGER	6	
7	NORTH GATE OPERATOR	20 1	600	A	4800	-- --	(F) ELECTRIC VEHICLE CHARGER	8	
9	SOUTH GATE OPERATOR	20 1	600	B	4800	60 2	(F) ELECTRIC VEHICLE CHARGER	10	
11	SPARE	20 1		C	4800	-- --	(F) ELECTRIC VEHICLE CHARGER	12	

Fire Alarm Symbols

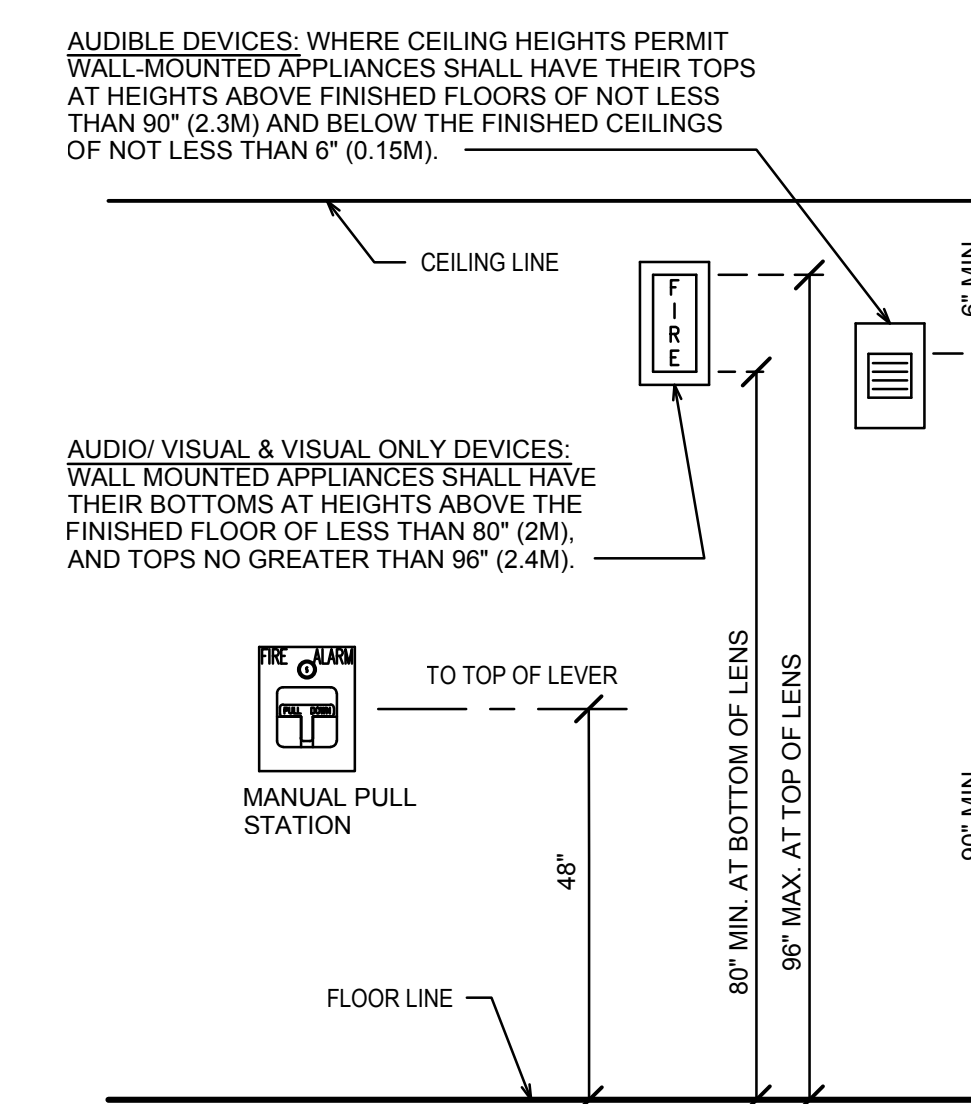
SYMBOL	EQUIPMENT	DESCRIPTION	CSFM
	FIRE ALARM CONTROL PANEL W/ EMERGENCY VOICE/ALARM COMMUNICATION	GAMEWELL-FCI #E3 SERIES	7165-1703.0125
	REMOTE ANNUNCIATOR	GAMEWELL-FCI #NGA W/ FLUSH ENCLOSURE	7165-1703.0125
	CELLULAR NETWORK COMMUNICATOR	HONEYWELL #HWF2-COM	7300-1645.0511
	SMOKE DETECTOR, PHOTOELECTRIC DETECTOR BASE	GAMEWELL-FCI #ASD-PL2F GAMEWELL-FCI #BS01	7272-1703.0121 7300-1653.0109
	MANUAL PULL STATION	GAMEWELL-FCI #MS-7	7150-1703.0109
	MONITOR MODULE	GAMEWELL-FCI #MM-2F	7300-1703.0102
	RELAY MODULE	GAMEWELL-FCI #AOM-2SF	7300-1703.0102
	VISIBLE NAC DEVICE, CEILING MTD (cd INDICATED ON PLANS)	EATON/ WHEELLOCK #LSTWC3	7135-0785.0501
	VISIBLE NAC DEVICE, WALL MTD (cd INDICATED ON PLANS)	EATON/ WHEELLOCK #LSTR3	7135-0785.0501
	AUDIO/VISIBLE NAC DEVICE, CEILING MTD (cd INDICATED ON PLANS)	EATON/ WHEELLOCK #LHWSW3	7320-0785.0501
	AUDIO/VISIBLE NAC DEVICE, WALL MTD (cd INDICATED ON PLANS)	EATON/ WHEELLOCK #LHSR3	7320-0785.0501
	EXTERIOR HORN, WP, WALL MTD	EATON/ WHEELLOCK #AH-24WP-R W/ WBB BACKBOX	7125-0785.0131
	SPRINKLER POST INDICATOR VALVE		
	SPRINKLER RISER TAMPER SWITCH		
	SPRINKLER RISER FLOW SWITCH		
	SPRINKLER RISER BELL		

Sequence of Operations Matrix

INITIATION CONDITION \ ACTION	FIRE SPRINKLER TAMPER SWITCH, POST INDICATOR VALVE	SMOKE, HEAT, OR DUCT DETECTOR, FIRE SPRINKLER FLOW SWITCH	POWER LOSS, SHORT CIRCUIT, GROUND FAULT
ANNUNCIATE TROUBLE			●
ANNUNCIATE ALARM		●	
ANNUNCIATE SUPERVISORY	●		
INITIATE NOTIFICATION APPLIANCES		●	
TRANSMIT TO CENTRAL STATION	●	●	●
CLOSE FIRE/SMOKE DAMPER		●	
SHUTDOWN HVAC UNITS		●	

Fire Alarm Notes

- ALL REFERENCES TO THE FIRE ALARM SYSTEM ON THESE PLANS, INCLUDING LOCATIONS OF DEVICES, HAVE NOT BEEN REVIEWED BY THE AUTHORITY HAVING JURISDICTION (AHJ). ANY REFERENCE TO THE FIRE ALARM SYSTEM IS DEFERRED FOR APPROVAL BY THE CITY OF FRESNO FIRE DEPARTMENT FOLLOWING RECEIPT OF DETAILED PLANS.
- ALL WORK SHALL CONFORM TO THE 2016 EDITION OF NFPA 72.
- INSTALLATION OF THE FIRE ALARM SYSTEM (FAS) SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY FIRE PREVENTION DIVISION.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE INSPECTOR.
- A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR THE INSTALLATION.
- ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OF THE PROJECT.
- ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL, OR OTHER LAB TESTING CRITERIA. APPROVED TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
- AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY SPACE WITHIN A BUILDING THAT MAY BE OCCUPIED.
- AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN, PRIOR TO "EVAC" ANNOUNCEMENT. THE CARBON MONOXIDE SIGNAL SHALL SOUND A FOUR-PULSE TEMPORAL PATTERN PER NFPA 720, 5.8.6.5.1.
- VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH PER SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
- ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THIN OR THWN.
- PER CEC STANDARDS, ALL WIRING SHALL BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE WIRE. ANY CONNECTION SHALL BE BY LUG CONNECTION AT A DEVICE OR AT A FATC TERMINAL BLOCK ONLY. ALL BOXES TO BE SIZED PER CEC.
- SMOKE DETECTORS SHALL NOT BE CLOSER THAN 12" FROM FIRE SPRINKLERS NOR 36" FROM SUPPLY AIR DIFFUSERS. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION, NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
- A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICES TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT THE FIRE PANEL/EXTENDERS.
- THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION AS DETAILED IN NFPA 72.
- THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC 901.6.2.
- SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTIONS WITH FINAL TEST. FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATIONS SHALL BE LISTED AS EITHER UJFX (CENTRAL STATION) OR UJUS (REMOTE AND PROPRIETARY) BY UNDERWRITERS LABORATORY (UL) OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD FM 3011. A COPY OF ALL DEVICES REPORTED TO THE CENTRAL STATION SHALL BE PROVIDED TO THE OWNER'S ELECTRONICS DEPARTMENT.
- OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
- BATTERIES SHALL BE STAMPED WITH DATE OF MANUFACTURE.
- THE FAS INSTALLER SHALL PROVIDE ALL FACTORY WARRANTIES TO THE OWNER AT THE CLOSE UP OF THE PROJECT.
- THE FAS INSTALLER SHALL PROVIDE WRITTEN CERTIFICATION USING NFPA 72 INSPECTION AND TESTING FORMS AND SHALL CERTIFY THAT THE INSTALLATION, TESTING, AND OPERATION CONFORM IN ALL RESPECTS TO THE REQUIREMENTS AS SET FORTH IN TITLE 19 OF THE CALIFORNIA CODE OF REGULATIONS AND PART 3, ARTICLE 760 OF TITLE 24 OF THE C.C.R. AND C.B.C. SECTION 305.9. THE CONTRACTOR SHALL SUBMIT THE COMPLETED FAS CERTIFICATION AND DESCRIPTION FORM TO FIRE PREVENTION DIVISION.
- SUBMIT PLANS TO AND OBTAIN PERMIT FROM THE FIRE PREVENTION DIVISION FOR THE INSTALLATION OR MODIFICATION OF FIRE ALARM SYSTEM.
- THE GENERAL CONTRACTOR SHALL COORDINATE THE FIRE ALARM SYSTEM INTERFACES BETWEEN THE FIRE ALARM CONTRACTOR, SPRINKLER CONTRACTOR, MECHANICAL CONTRACTOR AND ANY OTHER PERTINENT TRADES (FIRE ALARM, SPRINKLER SYSTEM, HOOD AND VENT EXTINGUISHING SYSTEM, HVAC, FIRE SMOKE DAMPERS, ETC.).
- PROVIDE A SMOKE DETECTOR IN THE MAIN SUPPLY AIR DUCT OF EACH HVAC UNIT TO SHUT OFF THE POWER SOURCE OF THE UNIT UPON THE DETECTION OF SMOKE WHEN THE TOTAL CFM IS EXCESS OF 2000. 2016 CMC 609.0
- WHEN A FIRE ALARM SYSTEM IS PRESENT AND THE TOTAL COMBINED CFM FOR ALL HVAC UNITS IN A FIRE COMPARTMENT IS IN EXCESS OF 2000, DETECTION OF SMOKE IN ONE OF THE DUCT DETECTORS SHALL SHUT OFF THE POWER SOURCE TO ALL THE UNITS. FRESNO FIRE POLICY 407.4
- SUBMIT PLANS TO AND OBTAIN PERMIT FROM THE FIRE PREVENTION DIVISION FOR THE INSTALLATION OR MODIFICATION OF FIRE SPRINKLER SYSTEM. INSTALLATIONS MUST ALSO COMPLY WITH FFD POLICY SECTION 405. FFD POLICIES CAN BE FOUND ON THE FIRE DEPARTMENT WEBPAGE UNDER COMMUNITY AND PROFESSIONAL SERVICES, FIRE DEPARTMENT DEVELOPMENT POLICIES.
- OBTAIN PERMIT FROM THE FIRE PREVENTION DIVISION (OVER THE COUNTER) FOR FIRE SPRINKLER SUPERVISION. SUPERVISION IS REQUIRED ON ALL FIRE SPRINKLER SYSTEMS WITH 7 OR MORE SPRINKLER HEADS. 2016 CFC, SECTION 903.4. INSTALLATIONS MUST ALSO COMPLY WITH FFD POLICY SECTION 405 AND 407. FFD POLICIES CAN BE FOUND AT: <https://www.fresno.gov/fire-prevention-investigation/development-policies/>.
- THE GENERAL CONTRACTOR AND THE SPRINKLER CONTRACTOR SHALL COORDINATE THE PROTECTION OF ROOF "CRICKETS" OR OTHER CONCEALED COMBUSTIBLE SPACES (WHERE APPLICABLE).
- SHOW THE PROPOSED LOCATION OF FIRE SPRINKLER RISER AND FDC. NOTE: INTERIOR SPRINKLER RISERS NOT LOCATED WITHIN FIVE FEET OF AN EXTERIOR DOOR REQUIRE ON EXTERIOR WALL MOUNTED INDICATING CONTROL VALVE.
- ALL FIRE ALARM DETAILS ARE FOR REFERENCE ONLY.



E14 Fire Alarm Device Elevation
Scale: None

FIRE ALARM DEFERRED APPROVAL SUBMITTAL FOR BID ONLY



Project:

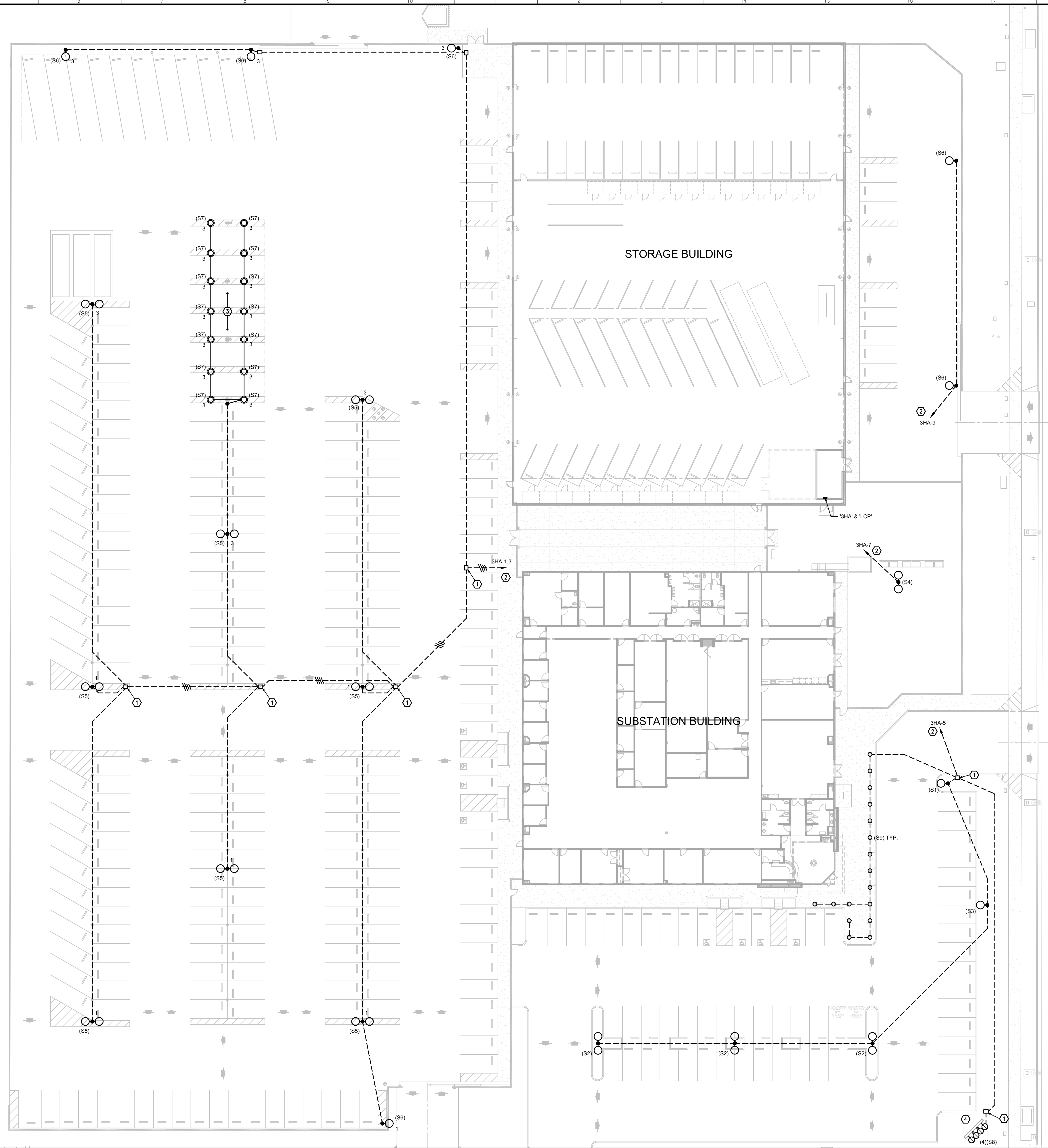
Sheriff Area 2 Sub-Station
1129 N. Armstrong Ave., Fresno, CA
APN: 910-133-04-05, and -06
ISSUE DATE: 6.1.2020
PROJECT NO: T80293 / 19003
FILE NAME: 19074 - Elec_Split Bid Set

Sheet Content: FIRE ALARM SYMBOLS AND NOTES



Sheet No.

E1.6



- ### Key Notes
1. LIGHTING PULLBOX: CHRISTY B1017 H20 PULLBOX WITH BOLT-DOWN STEEL LID.
 2. HOMERUN TO PANELBOARD VIA LIGHTING CONTROL PANEL LCP. ALL SITE LIGHTING WIRING SHALL BE #10 WITH #10 GROUND.
 3. MOUNT FIXTURES TO BOTTOM OF SHADE CANOPY.
 4. MONUMENT SIGN: INSTALL FIXTURES IN-GRADE AS PER MFR INSTRUCTIONS. SET FIXTURES 36" BACK FROM FACE OF MONUMENT AND AIM TO EVENLY ILLUMINATE THE FACE. RUN 600V DIRECT BURIAL CABLE FROM PULLBOX TO FIXTURES WITH SEALING GLANDS AT BOTTOMS OF FIXTURES.

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California Licensed Architect No. C-27818
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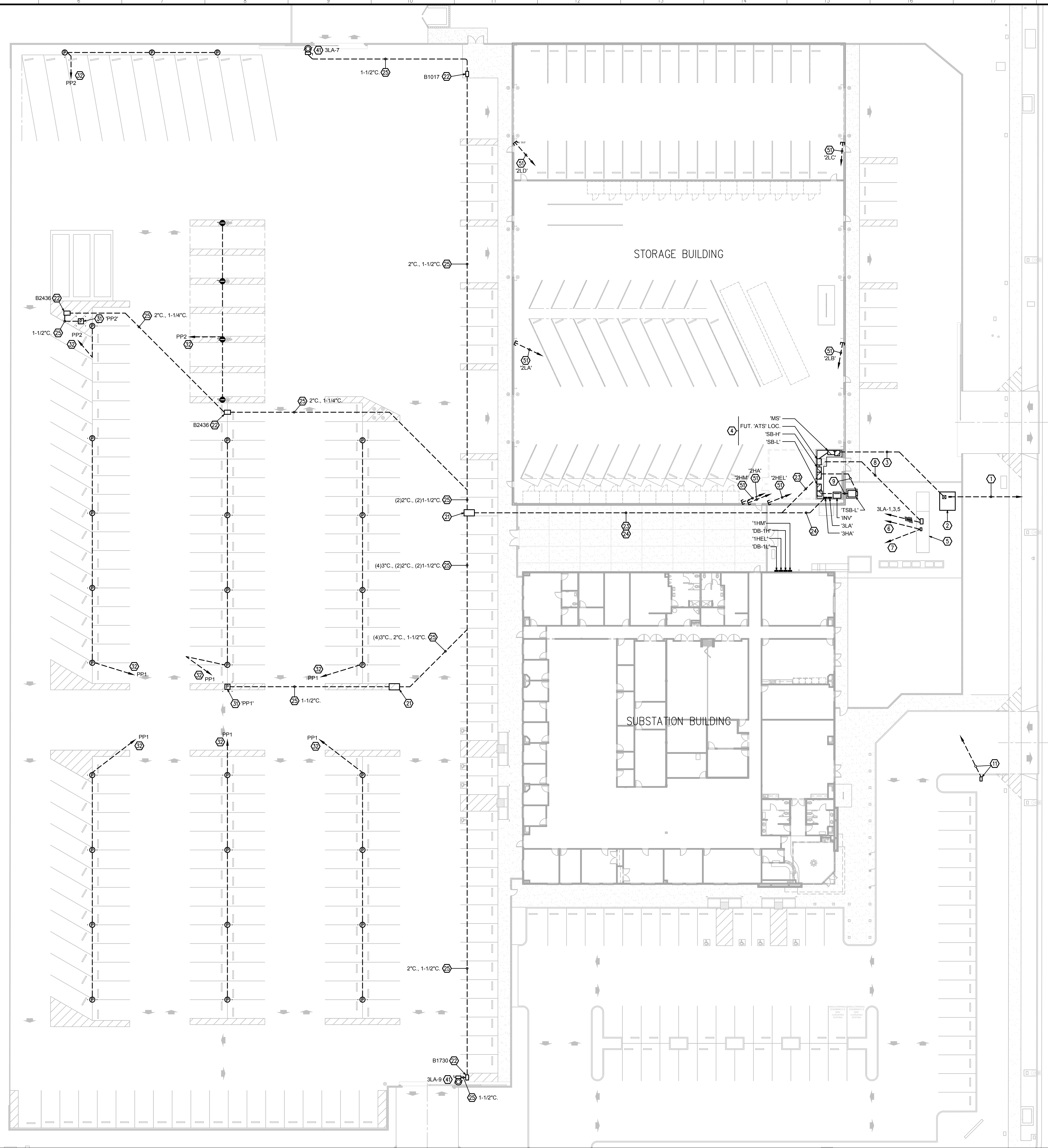
Project:
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Sheet Content:
 LIGHTING SITE PLAN

Fresno County Department of
 Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
E2.0

> File: 19074 - Elec_Split Bid Set.dwg > Plotted: 6/1/2020 7:31 PM
 > Plot: 19074 - Elec_Split Bid Set.dwg > Plotted: 6/1/2020 7:31 PM



Key Notes

1. PROPOSED 4\"/>
- 2. PROPOSED PG&E STANDARD CONCRETE PAD. SET MIN. 36\"/>
- 3. PROPOSED (4) 5\"/>
- 4. PAD MOUNTED, FREESTANDING ELECTRICAL EQUIPMENT. REFER TO POWER SINGLE LINE DIAGRAM, SHEET E1.2, FOR ADDITIONAL UNDERGROUND RUNS NOT SHOWN HERE. NOTE: ATS LOCATION IS FOR FUTURE GENERATOR INSTALLATION. PROVIDE PULL CAN ONLY AT THAT LOCATION.
- 5. POTENTIAL LOCATION OF FUTURE STANDBY EMERGENCY GENERATOR (N.I.C.). STUB CONDUITS INTO B1017 AND B1730 BOXES FOR FUTURE CONNECTION. VERIFY LOCATIONS WITH OWNER.
- 6. 1-1/4\"/>
- 7. 1-1/4\"/>
- 8. GEN FEEDERS PER POWER SINGLE LINE DIAGRAM.
- 9. TRANSFORMER PRIMARY AND SECONDARY PER POWER SINGLE LINE DIAGRAM.
- 11. B1324 H20 PULLBOX WITH BOLT-DOWN STEEL LID. HOMERUN (3) 2\"/>
- 21. 3x5 PULLBOX WITH SPRING-ASSIST BOLT DOWN STEEL LIDS.
- 22. H20 RATED PULLBOX WITH BOLT-DOWN STEEL LID. SIZE INDICATED.
- 23. (4) 3\"/>
- 24. (4) 2\"/>
- 25. SITE CONDUITS, QTY. AND SIZE INDICATED.
- 31. POWER PEDESTAL. PROVIDE 2#8, 1#6G FEEDER FROM PANEL 3HA THRU 1-1/2\"/>
- 32. 20A DEDICATED CIRCUIT TO POWER PEDESTAL. 1\"/>
- 41. INSTALL GATE OPERATOR AND EXT. SHADOW- AND REVERSE-LOGS IN ASPHALT PER MANUFACTURER INSTRUCTIONS. PROVIDE 2#8, 1#6G FEEDER FROM PANEL 3LA THRU 1-1/2\"/>
- 51. STUB FOR FUTURE PANEL / CABINET. SEE F1/E1.2.

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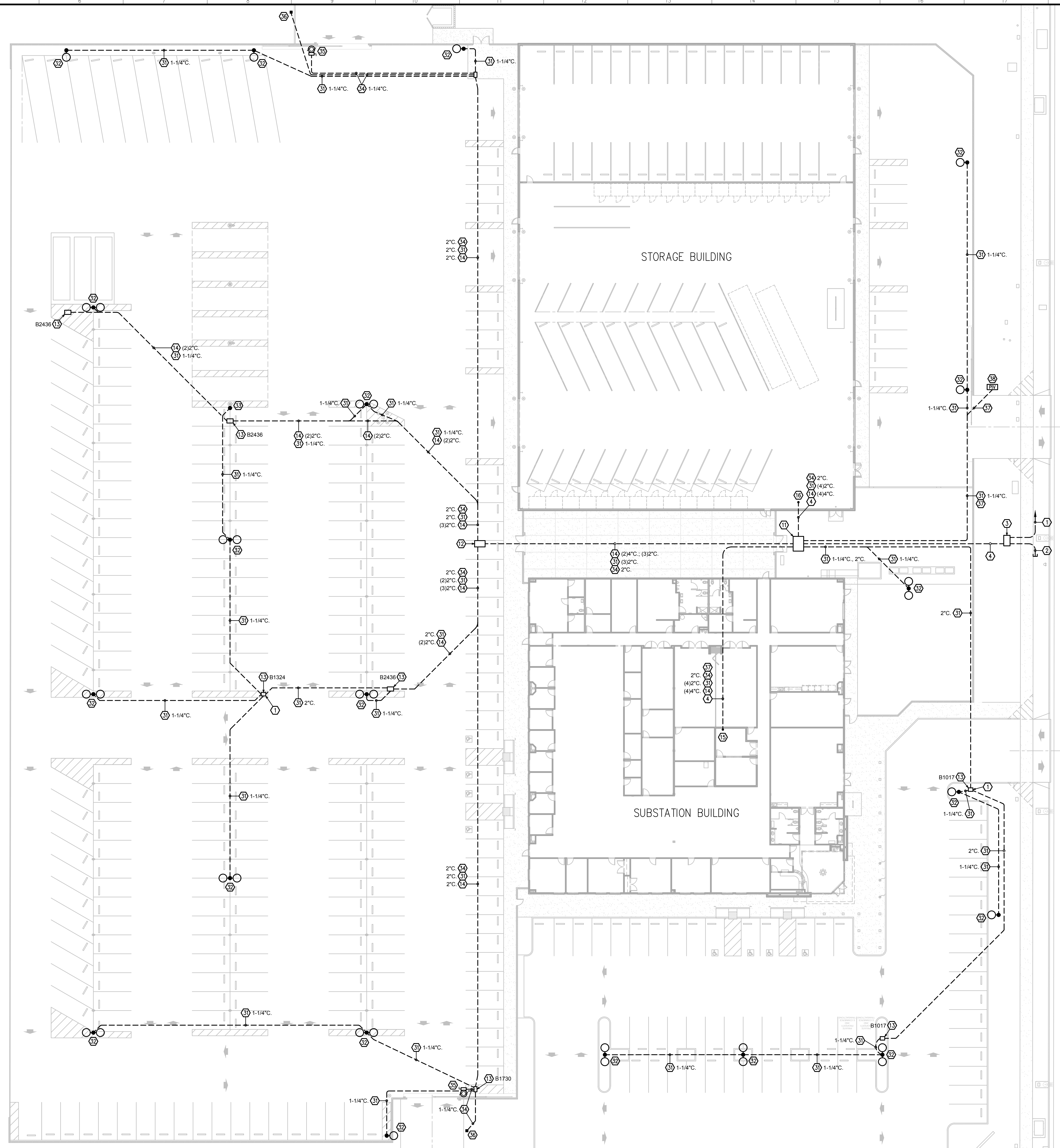
ARCHITECT:
Neil Roger Davidson, A.I.A., Architect
California Licensed Architect No. C-27818
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Project:
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Sheet Content:
 LOW VOLTAGE SYSTEMS SITE PLAN

Fresno County Department of
 Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
E2.2



Key Notes

1. (2) 4\"/>
- 2. (2) 4\"/>
- 3. 3x5 CUSTOMER VAULT WITH BOLT-DOWN STEEL LIDS.
- 4. (2) 4\"/>
- 11. 5x7 VAULT WITH SPRING-ASSIST BOLT DOWN STEEL LIDS.
- 12. 3x5 VAULT WITH SPRING-ASSIST BOLT DOWN STEEL LIDS.
- 13. H20 RATED PULLBOX WITH BOLT-DOWN STEEL LID. SIZE INDICATED.
- 14. LOW VOLTAGE CONDUITS, SIZE AND QTY. INDICATED.
- 15. STUB CONDUITS UP AT BACKBOARD.
- 16. STUB CONDUITS UP AT FUTURE IT ROOM LOCATION. VERIFY LOCATION WITH OWNER.
- 31. CAMERA CONDUITS, SIZE AND QTY. INDICATED.
- 32. BRING CONDUITS INTO LIGHT POLE FOR CAMERAS.
- 33. BRING CONDUIT UP AT COLUMN AND TERMINATE IN 12\"/>
- 34. ACCESS SYSTEM CONDUIT, SIZE AND QTY. INDICATED.
- 35. BRING CONDUIT INTO GATE OPERATOR CONTROLLER.
- 36. VEHICLE READER PEDESTAL. VERIFY LOCATION WITH OWNER.
- 37. 1\"/>
- 38. CONNECT PIV TAMPER SWITCH.

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Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
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 ISSUE DATE: 6.1.2020
 PROJECT NO: TR62293 / 19003
 FILE NAME: 19074 - Elec_Split Bid Set

Sheet Content:
 LOW VOLTAGE SYSTEMS SITE PLAN

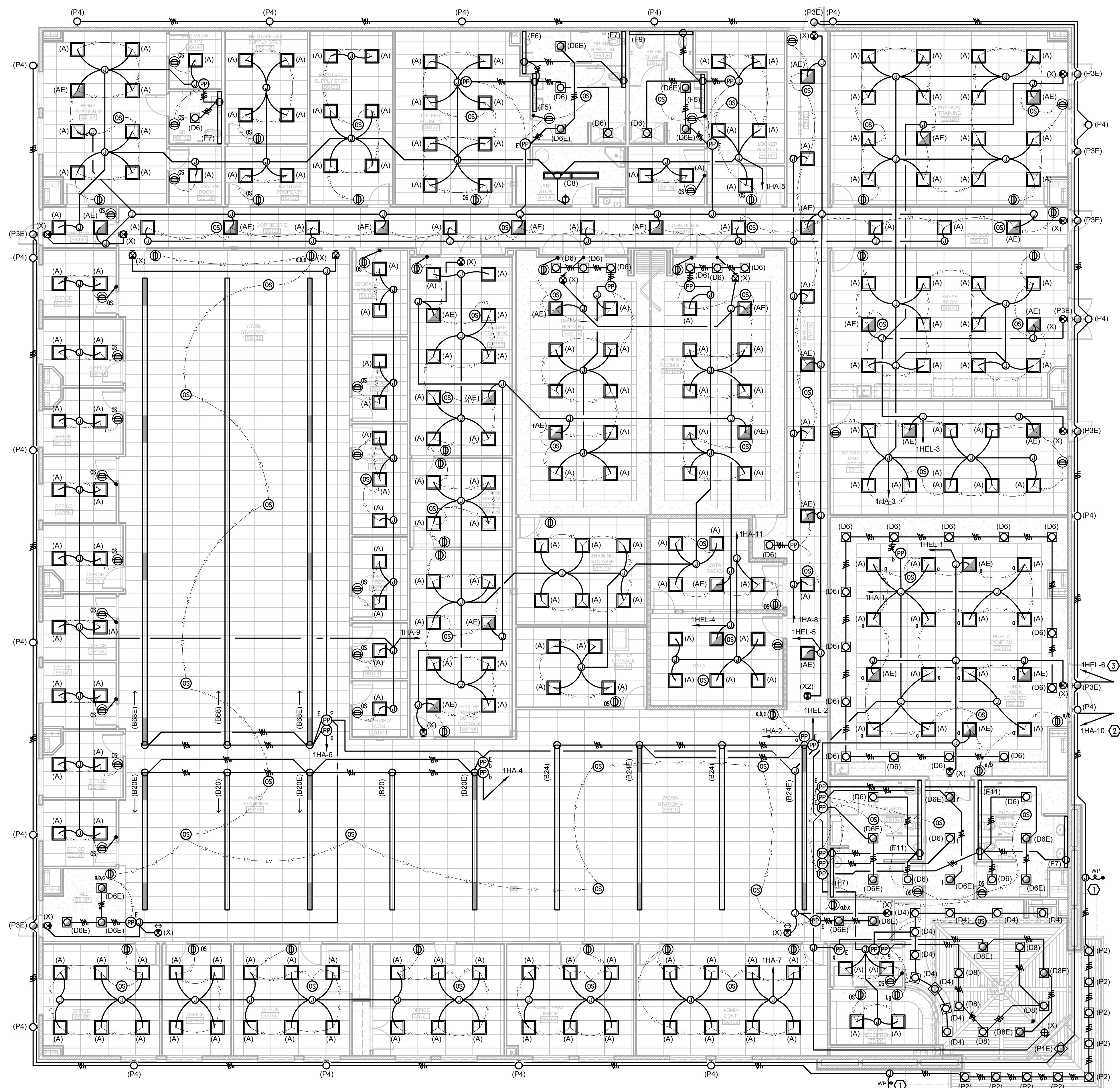
Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
E2.2

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 Scale: 1" = 20'-0"

Key Notes

1. MAKE CONNECTION TO BACKLIT ILLUMINATED SIGN. CONCEAL ELECTRICAL WORK. SIGN UNDER SEPARATE PERMIT. VERIFY ROUGH-IN LOCATION WITH VENDOR.
2. HOME RUN VIA NIGHT POWER PACK MOUNTED ABOVE PANEL BOARD.
3. HOME RUN VIA NIGHT EMERGENCY POWER PACK MOUNTED ABOVE PANEL BOARD.



REGISTERED PROFESSIONAL ENGINEER
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REGISTERED ARCHITECT
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 C-27818
 REN: 10-31-21
 STATE OF CALIFORNIA

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 ISSUE DATE: 6.1.2020
 PROJECT NO: TR62293 / 19003
 FILE NAME: 19074 - Elec_Split Bid Set

Sheet Content:
 LIGHTING PLAN
 SUBSTATION BUILDING

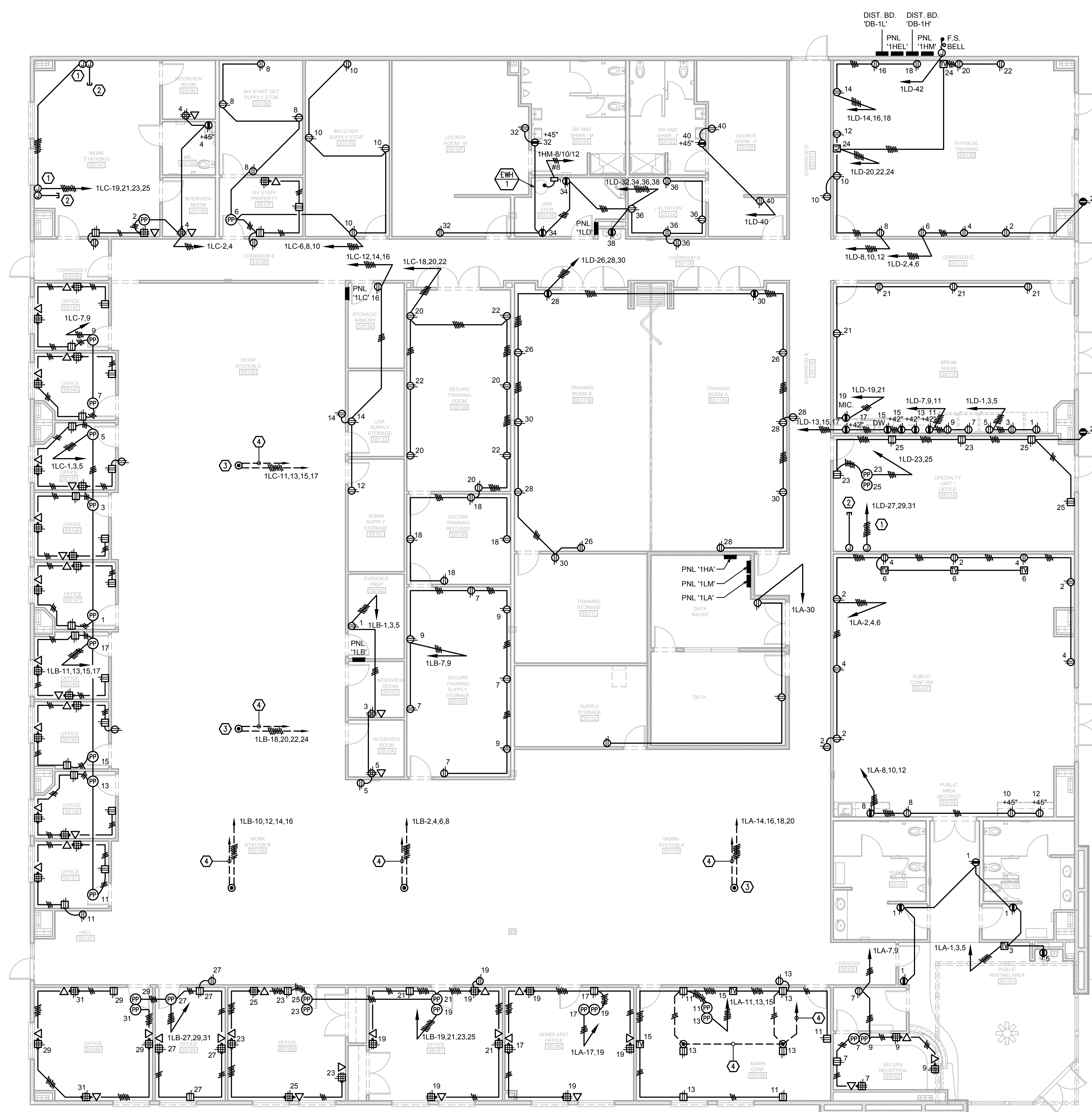
Fresno County Department of
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 Capital Projects

2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
E3.0

Key Notes

- MODULAR FURNITURE POWER FEED AT WALL. VERIFY BOX LOCATION WITH FURNITURE VENDOR.
- MODULAR FURNITURE LOW VOLTAGE FEED AT WALL. 4"10" SCP. DEEP BOX WITH (2) 1/4" CONDUIT STUBS TO ATTIC SPACE AND 2-GANG RING. VERIFY BOX LOCATION WITH FURNITURE VENDOR.
- MODULAR FURNITURE POWER AND DATA FEED IN FLOOR. PROVIDE 4-GANG FLOOR BOX WITH APPROPRIATE COVER. VERIFY CONFIGURABLE BOX LOCATION WITH FURNITURE VENDOR.
- (2) 1-1/4" C. TO IDF FOR DATA.



A7 Power and Low Voltage Plan - Substation Building

Project:

Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04-05, and -06
 ISSUE DATE: 6.1.2020
 PROJECT NO: TR02293 / 19003
 FILE NAME: 19074 - Elec_Split Bid Set

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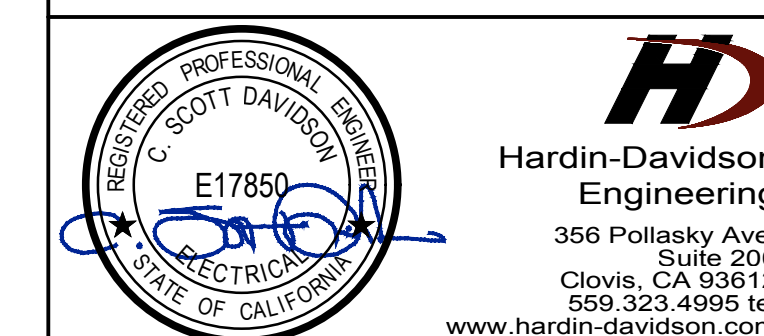
POWER AND LOW VOLTAGE PLAN
 SUBSTATION BUILDING

Fresno County Department of
 Public Works and Planning
 Capital Projects

2220 Tulare Street, 8th Floor
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Sheet No.

E3.1



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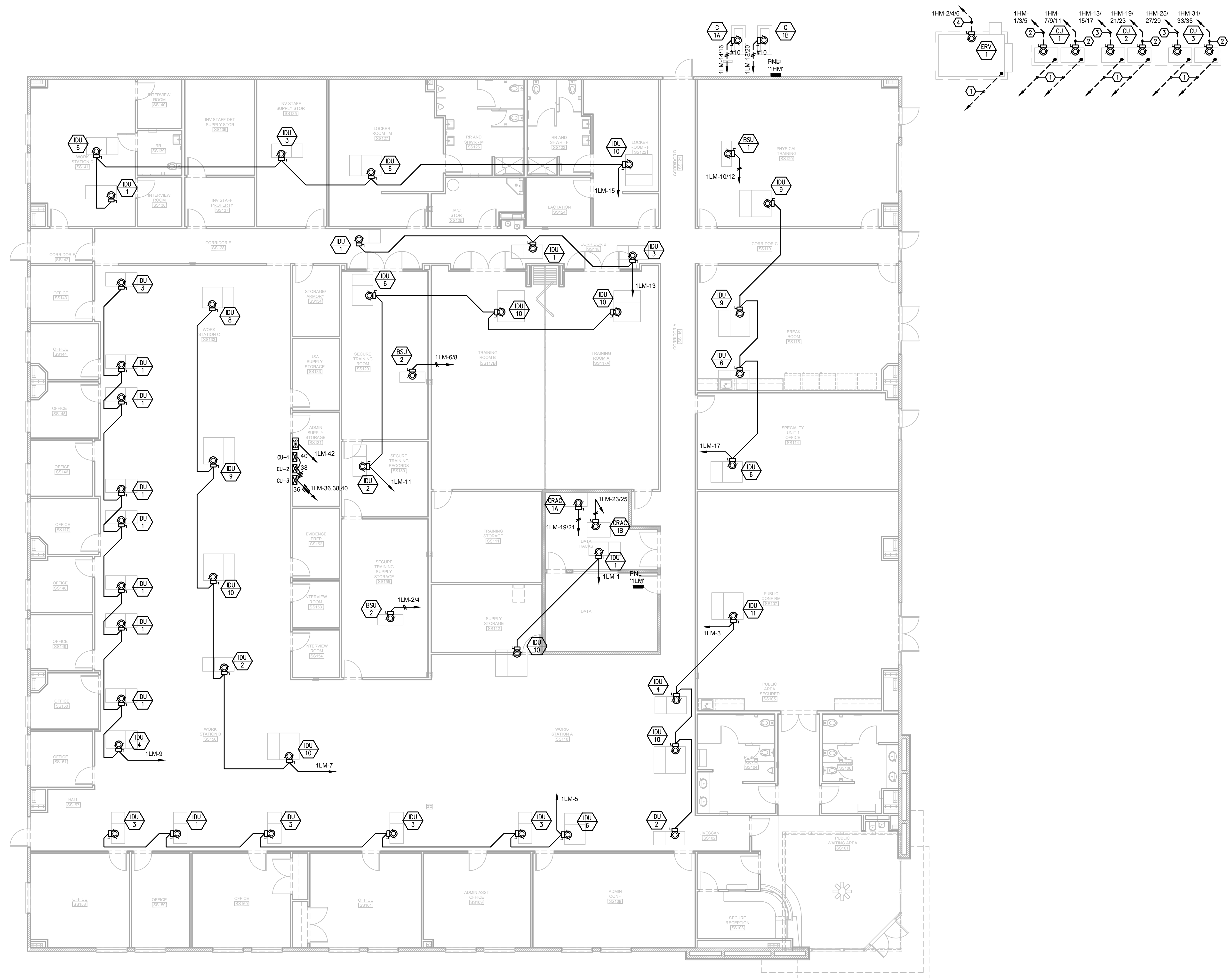


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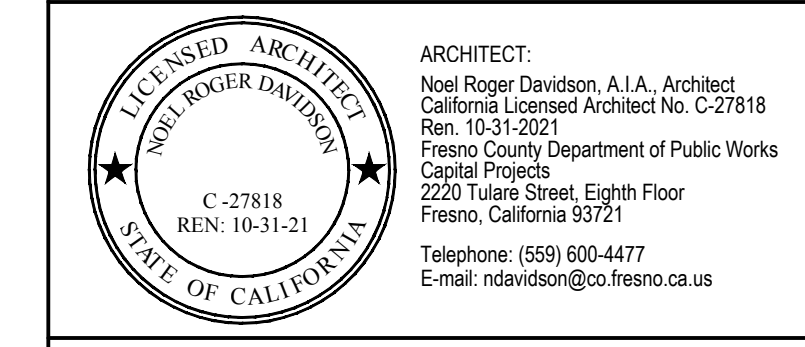


Key Notes

- 1" C. TO EMS PANEL. SEE MECHANICAL PLANS.
- 3/4" C. 3#12.
- 3/4" C. 3#10.
- 1" C. 3#8.



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Sheet Content:
 MECHANICAL POWER PLAN
 SUBSTATION BUILDING

Fresno County Department of
 Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
E3.2

> File: 19074 - Elec_Split Bid Set.dwg > Plotted: 6/1/2020 7:31 PM

Key Notes

1. PROVIDE 120V DEDICATED CIRCUIT WITH RED LOCK-ON DEVICE ON BREAKER. INSTALL SMOKE DETECTOR NEAR FCP.
2. MONITOR TAMPER AND FLOW AT FIRE SPRINKLER RISER.
3. CONNECT RISER BELL TO DEDICATED FA CIRCUIT.
4. MONITOR TAMPER AT POST INDICATOR VALVE. ACTUAL LOCATION IS SHOWN ON SHEET E2.2.



**FIRE ALARM DEFERRED
APPROVAL SUBMITTAL**

FOR BID ONLY

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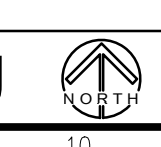
Sheet Content:
FIRE ALARM PLAN
SUBSTATION BUILDING

Fresno County Department of
Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
E3.3

Scale: 1/8" = 1'-0"



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Electrical Power Distribution
 NRC-ELC-E (Rev. 1/18)
 CERTIFICATE OF COMPLIANCE
 Project Name: Fresno Co. Sheriff's Substation
 Project Address: 1129 N. Armstrong Avenue
 Report Page: Page 1 of 5
 Date Prepared: 12/19/2019

A. GENERAL INFORMATION
 Project Location (City): Fresno
 Occupancy Types Within Project: Warehouse, Other (Write In):
 Office, Retail, Warehouse, Hotel/Motel, School, Support Areas
 Type or Usage: High-Rise Residential, Relocatable

B. PROJECT SCOPE
 Table Instructions: Include any electrical service systems that are within the scope of the permit application.
 Electrical Service Designation/Description: DB-1H,DB-1L
 Scope of Work: New electrical service equipment & meter
 Rating (kVA): 665
 Utility Provider: []
 Metering System: []
 Demand Response Controls: []
 Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §130.0, §130.1 and §130.2 and compliance documents NRC-CAN, NRC-CI and NRC-ET will indicate when demand response controls are required.

C. COMPLIANCE RESULTS
 Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D, for guidance and review the Table that indicates "No".
 Service Electrical Monitoring (§130.5a) AND Separation for Monitoring (§130.5b) AND Voltage Drop (§130.5c) AND Controlled Receptacles (§130.5d) AND Compliance Results: COMPLIES

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
 May 2018

Electrical Power Distribution
 NRC-ELC-E (Rev. 1/18)
 CERTIFICATE OF COMPLIANCE
 Project Name: Fresno Co. Sheriff's Substation
 Project Address: 1129 N. Armstrong Avenue
 Report Page: Page 2 of 5
 Date Prepared: 12/19/2019

D. EXCEPTIONAL CONDITIONS
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
 No exceptional conditions apply to this project.

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

F. SERVICE ELECTRICAL METERING
 Table Instructions: Complete the table below for new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a).
 Electrical Service Designation/Description: DB-1H,DB-1L
 Rating (kVA): 665
 Required Metering Capabilities per Table 130.5-A: []
 Instantaneous Demand (kW): []
 Historical Peak Demand (kW): []
 Tracking kWh for use-defined period: []
 kWh per rate period: []
 Location of Requirements in Construction Documents: E1.2
 Field Inspector: [] Pass [] Fail

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING
 Table Instructions: Complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Using the dropdown choices in column D1, indicate the load types included for each service. Any load types that are not included in the service do not need to be shown.
 Electrical Service Designation/Description: DB-1H,DB-1L
 Load Type per Table 130.5-B: []
 Minimum Required Separation of Load per Table 130.5-B: []
 Compliance Method: []
 Location of Requirements in Construction Documents: E1.2
 Field Inspector: [] Pass [] Fail

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
 May 2018

Electrical Power Distribution
 NRC-ELC-E (Rev. 1/18)
 CERTIFICATE OF COMPLIANCE
 Project Name: Fresno Co. Sheriff's Substation
 Project Address: 1129 N. Armstrong Avenue
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H. VOLTAGE DROP
 Table Instructions: Complete this table for entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)(2)(B).
 Electrical Service Designation/Description: DB-1H,DB-1L
 Combined Voltage Drop on Installed Feeder/Circuit Conductor Compliance Method: []
 Location of Voltage Drop Calculations: []
 Sheet Number for Voltage Drop Calculations in Construction Documents: E1.2
 Field Inspector: [] Pass [] Fail

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES
 Table Instructions: Complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, libraries, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.
 Table Continued

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
 May 2018

Electrical Power Distribution
 NRC-ELC-E (Rev. 1/18)
 CERTIFICATE OF COMPLIANCE
 Project Name: Fresno Co. Sheriff's Substation
 Project Address: 1129 N. Armstrong Avenue
 Report Page: Page 4 of 5
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J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at http://www.energy.ca.gov/title24/2016standards/appendices/forms/NRC.

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Table Instructions: There are no Certificates of Acceptance applicable to electrical power distribution requirements.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
 May 2018

Electrical Power Distribution
 NRC-ELC-E (Rev. 1/18)
 CERTIFICATE OF COMPLIANCE
 Project Name: Fresno Co. Sheriff's Substation
 Project Address: 1129 N. Armstrong Avenue
 Report Page: Page 5 of 5
 Date Prepared: 12/19/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 Documentation Author Name: C. Scott Davidson
 Documentation Author Signature: []
 Signature Date: 12/19/2019
 Company: Hardin-Davidson Engineering
 Address: 375 Polkowsky Ave Ste 200
 City/State/Zip: Clovis, CA 93612
 Phone: 559-323-4995

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 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 Designer Name: C. Scott Davidson
 Responsible Designer Signature: []
 Company: Hardin-Davidson Engineering
 Date Signed: 12/19/2019
 Address: 375 Polkowsky Ave. Suite 200
 License: E17850
 City/State/Zip: Clovis, CA 93612
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
 May 2018

Indoor Lighting
 NRC-LTI-E (Rev. 9/12)
 CERTIFICATE OF COMPLIANCE
 Project Name: Fresno Co. Sheriff's Substation
 Project Address: 1129 N. Armstrong Avenue
 Report Page: Page 1 of 6
 Date Prepared: 12/19/2019

A. GENERAL INFORMATION
 Project Location (City): Fresno
 Climate Zone: 13
 Total Conditioned Floor Area (ft²): 22,760
 Total Unconditioned Floor Area (ft²): 0
 Occupancy Types Within Project (select all that apply): Office, Retail, Warehouse, Hotel/Motel, School, Support Areas
 Parking Garage: [] High-Rise Residential, Relocatable, Other (write in): []

B. PROJECT SCOPE
 Table Instructions: Include any alterations to lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)(2).
 My Project Consists of Check that apply: []
 [X] New Lighting System
 [] Altered Lighting System
 Calculation Method: Area (ft²)
 Calculation Method: Area (ft²)
 Total Area of Work (ft²): 22,760
 Compliance Results: COMPLIES

C. COMPLIANCE RESULTS
 Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES WITH EXCEPTIONAL CONDITIONS" refer to Table D, for guidance.
 Lighting in conditioned unconditioned spaces must be combined for compliance per §140.6(b)(2).
 Conditioned: 18,208
 Unconditioned: 17,633.2
 Total Designated Watts: 17,633.2
 Total Designated Watts: 17,633.2
 Compliance Results: COMPLIES

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
 March 2018

Indoor Lighting
 NRC-LTI-E (Rev. 9/12)
 CERTIFICATE OF COMPLIANCE
 Project Name: Fresno Co. Sheriff's Substation
 Project Address: 1129 N. Armstrong Avenue
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 Date Prepared: 12/19/2019

D. EXCEPTIONAL CONDITIONS
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
 No exceptional conditions apply to this project.

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

F. INDOOR LIGHTING FIXTURE SCHEDULE
 Table Instructions: Include all permanent designated lighting and all portable lighting in offices.
 Name of Item Tag: []
 Complete Luminaire Description: []
 Specialized Luminaire Types: []
 Watts per luminaire: []
 How Wattage is determined: []
 Total number of luminaires: []
 Exempt per §140.6(a)(3): []
 Design Watts: []
 Field Inspector: [] Pass [] Fail

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
 March 2018

Indoor Lighting
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 Date Prepared: 12/19/2019

G. TRACK LIGHTING
 This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)
 Table Instructions: Provide lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes portion of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.
 Area Level Controls: []
 Building Level Controls: []
 Mandatory Dimming Response: §130.1(a)
 Shut-Off Controls: []
 Field Inspector: [] Pass [] Fail

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
 Table Instructions: Complete the table for each area complying with the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(d) are being used.
 Area Description: []
 Complete Building or Area Category: []
 Allowed Density (W/ft²): 0.8
 Area: 22,760
 Allowed Watts: 18,208
 Additional Allowances / Adjustments: []
 Total: 22,760
 Compliance Results: COMPLIES

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
 March 2018

Indoor Lighting
 NRC-LTI-E (Rev. 9/12)
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 Project Name: Fresno Co. Sheriff's Substation
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 Report Page: Page 4 of 6
 Date Prepared: 12/19/2019

K. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD FOOTNOTES
 This Section Does Not Apply

L. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
 This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED SPECIAL FUNCTION AREAS
 This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
 This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
 This Section Does Not Apply

P. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
 This Section Does Not Apply

Q. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
 This Section Does Not Apply

R. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (PAF)
 This Section Does Not Apply

S. RATED POWER REDUCTION COMPLIANCE BY SPACE
 This Section Does Not Apply

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
 March 2018

Indoor Lighting
 NRC-LTI-E (Rev. 9/12)
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T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at http://www.energy.ca.gov/title24/2016standards/appendices/forms/NRC.

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/2016standards/appendices/forms/NRC.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
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Indoor Lighting
 NRC-LTI-E (Rev. 9/12)
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 Report Page: Page 6 of 6
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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 Documentation Author Name: C. Scott Davidson
 Documentation Author Signature: []
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
 March 2018

Outdoor Lighting
 NRC-LTO-E (Rev. 9/12)
 CERTIFICATE OF COMPLIANCE
 Project Name: Fresno Co. Sheriff's Substation
 Project Address: 1129 N. Armstrong Avenue
 Report Page: Page 1 of 6
 Date Prepared: 12/19/2019

A. GENERAL INFORMATION
 Project Location (City): Fresno
 Climate Zone: 13
 Total Illuminated Hardship Area (ft²): 19,806
 Outdoor Lighting Zone per Title 24, Part 1 §140.114 or as designated by Authority Having Jurisdiction (AAJ): []
 L1: 0 - Very Low - Undeveloped Parkland | L2: 2 - Moderate - Rural Areas | L3: 4 - High - Must be reviewed by CA Energy Commission for Approval
 L4: 1 - Low - Developed Parkland | L5: 3 - Moderately High - Urban Areas

B. PROJECT SCOPE
 Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)(2), for alterations.
 My project consists of: []
 [X] New Lighting System
 [] Altered Lighting System
 Is your alteration increasing the connected lighting load (Watts)? [] Yes [] No
 Footnotes: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES WITH EXCEPTIONAL CONDITIONS" refer to Table D, for guidance.
 Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)(2): []
 Compliance Results: COMPLIES

C. COMPLIANCE RESULTS
 Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES WITH EXCEPTIONAL CONDITIONS" refer to Table D, for guidance.
 General Hardship Allowance (§140.7): []
 Per Application (Sales Frontage) (§140.7)(2): []
 Ornamental (Sales Frontage) (§140.7)(2): []
 Per Specific Area (Sales Frontage) (§140.7)(2): []
 Existing (Sales Frontage) (§140.7)(2): []
 Total Allowed (Watts): 1,850.14
 Total Actual (Watts): 1,837.5
 Compliance Results: COMPLIES

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
 September 2017

Outdoor Lighting
 NRC-LTO-E (Rev. 9/12)
 CERTIFICATE OF COMPLIANCE
 Project Name: Fresno Co. Sheriff's Substation
 Project Address: 1129 N. Armstrong Avenue
 Report Page: Page 2 of 6
 Date Prepared: 12/19/2019

D. EXCEPTIONAL CONDITIONS
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
 No exceptional conditions apply to this project.

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

F. OUTDOOR LIGHTING FIXTURE SCHEDULE
 Table Instructions: Complete this table demonstrating compliance with requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie. unaltered) and luminaires which are removed and replaced (having only not to be included in this table even if they are within the space covered by the permit application). When an option having a * is selected, the notes section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns D2 through D7, do not leave the field blank, include select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.
 Area Description: []
 Application per Table 140.7-A: []
 # of Locations: []
 Allowance (Watts): []
 Extra Allowance (Watts): []
 Luminaire Name or Item Tag: []
 Watts per Luminaire: []
 # of Luminaires: []
 Design Watts: []
 Field Inspector: [] Pass [] Fail

G. OUTDOOR LIGHTING FIXTURE SCHEDULE
 Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7, (ie. Table H has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)(2), (ie. Table H has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie. do not include existing luminaires remaining or existing luminaires being moved).
 Designated Wattage: []
 Name of Item Tag: []
 Complete Luminaire Description: []
 Watts per luminaire: []
 How Wattage is determined: []
 Total number of luminaires: []
 Luminaire Status: []
 Excluded per §140.7(a): []
 Design Watts: []
 Cut-off Req. > 300W (§130.2)(b): []
 Field Inspector: [] Pass [] Fail

H. OUTDOOR LIGHTING ALLOWANCE (per §140.7)
 Table Instructions: Complete this table for areas using the wattage allowance per application from Table 140.7-B.
 Area Description: []
 Application per Table 140.7-B: []
 # of Locations: []
 Allowance (Watts): []
 Extra Allowance (Watts): []
 Luminaire Name or Item Tag: []
 Watts per Luminaire: []
 # of Luminaires: []
 Design Watts: []
 Field Inspector: [] Pass [] Fail

I. LIGHTING ALLOWANCE: SALES FRONTAGE
 Table Instructions: Complete this table for areas using the lighting allowance per application from Table 140.7-B.
 Area Description: []
 Application per Table 140.7-B: []
 # of Locations: []
 Allowance (Watts): []
 Extra Allowance (Watts): []
 Luminaire Name or Item Tag: []
 Watts per Luminaire: []
 # of Luminaires: []
 Design Watts: []
 Field Inspector: [] Pass [] Fail

J. LIGHTING ALLOWANCE: ORNAMENTAL
 This Section Does Not Apply

K. LIGHTING ALLOWANCE: PER SPECIFIC AREA
 This Section Does Not Apply

L. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
 This Section Does Not Apply

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
 September 2017

Outdoor Lighting
 NRC-LTO-E (Rev. 9/12)
 CERTIFICATE OF COMPLIANCE
 Project Name: Fresno Co. Sheriff's Substation
 Project Address: 1129 N. Armstrong Avenue
 Report Page: Page 3 of 6
 Date Prepared: 12/19/2019

H. OUTDOOR LIGHTING CONTROLS
 This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS
 Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie. unaltered) and luminaires which are removed and replaced (having only not to be included in this table even if they are within the space covered by the permit application). When an option having a * is selected, the notes section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns D2 through D7, do not leave the field blank, include select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.
 Mandatory Controls: []
 Area Description: []
 Motion Sensor: []
 Shut-Off (§130.2)(1): []
 Auto-Schedule (§130.2)(2): []
 Motion Sensor (§130.2)(3): []
 Sales Frontage (NA, No Sales Frontage) (§130.2)(4): []
 Facade, Ornament, Outdoor Dining (NA, No Sales Frontage) (§130.2)(5): []
 Field Inspector: [] Pass [] Fail

I. LIGHTING ALLOWANCE: PER APPLICATION
 Table Instructions: Complete this table for areas using the wattage allowance per application from Table 140.7-B.
 Area Description: []
 Application per Table 140.7-B: []
 # of Locations: []
 Allowance (Watts): []
 Extra Allowance (Watts): []
 Luminaire Name or Item Tag: []
 Watts per Luminaire: []
 # of Luminaires: []
 Design Watts: []
 Field Inspector: [] Pass [] Fail

J. LIGHTING ALLOWANCE: SALES FRONTAGE
 Table Instructions: Complete this table for areas using the lighting allowance per application from Table 140.7-B.
 Area Description: []
 Application per Table 140.7-B: []
 # of Locations: []
 Allowance (Watts): []
 Extra Allowance (Watts): []
 Luminaire Name or Item Tag: []
 Watts per Luminaire: []
 # of Luminaires: []
 Design Watts: []
 Field Inspector: [] Pass [] Fail

K. LIGHTING ALLOWANCE: ORNAMENTAL
 This Section Does Not Apply

L. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
 This Section Does Not Apply

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
 September 2017

Outdoor Lighting
 NRC-LTO-E (Rev. 9/12)
 CERTIFICATE OF COMPLIANCE
 Project Name: Fresno Co. Sheriff's Substation
 Project Address: 1129 N. Armstrong Avenue
 Report Page: Page 4 of 6
 Date Prepared: 12/19/2019

D. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
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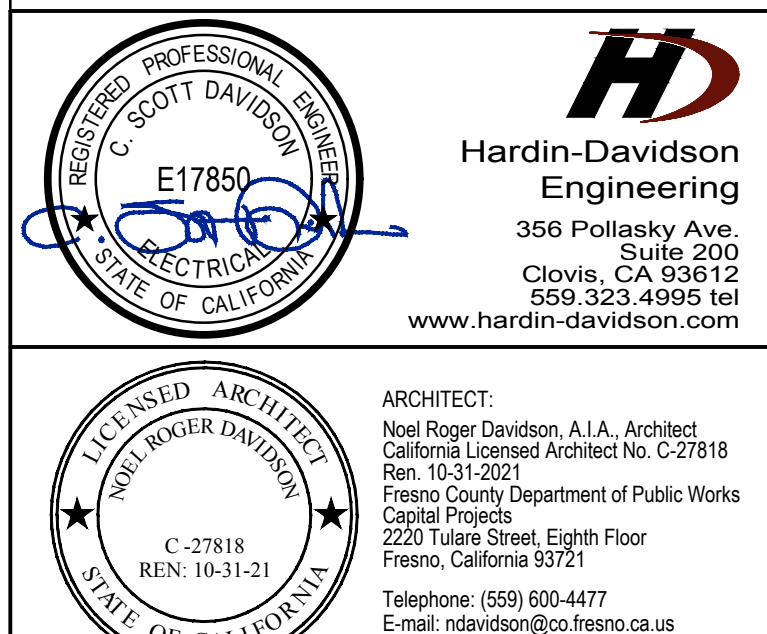
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
 September 2017

Outdoor Lighting
 NRC-LTO-E (Rev. 9/12)
 CERTIFICATE OF COMPLIANCE
 Project Name: Fresno Co. Sheriff's Substation
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 Date Prepared: 12/19/2019

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
 This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
 This Section Does Not Apply

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
 September 2017



Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 910-133-04-, -05, and -06
 ISSUE DATE: 6.1.2020
 PROJECT NO: TR0293 / 19003
 FILE NAME: 19074 - Elec_Split Bid Set

Sheet Content:
 ENERGY COMPLIANCE DOCUMENTS

Sheet No. E4.0

Fresno County Department of Public Works and Planning Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

STATE OF CALIFORNIA
Outdoor Lighting
 MISCELLANEOUS FORM 9113 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: Fresno Co. Sheriff's Substation Report Page: Page 6 of 6
 Project Address: 1129 N. Armstrong Avenue Date Prepared: 12/10/2015

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

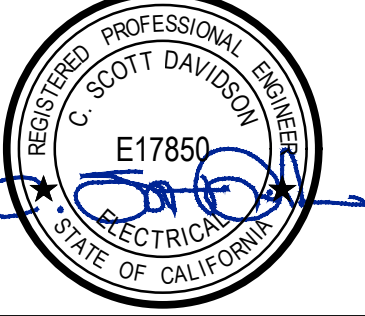

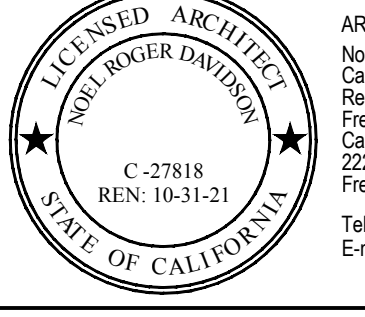

Documentation Author Name:	C. Scott Davidson	Documentation Author Signature:	
Company:	Hardin-Davidson Engineering	Signature Date:	
Address:	375 Pollasky Ave Ste 200	CEA/HERS Certification Identification (if applicable):	E17850
City/State/Zip:	Clovis, CA 93612	Phone:	559-323-4995

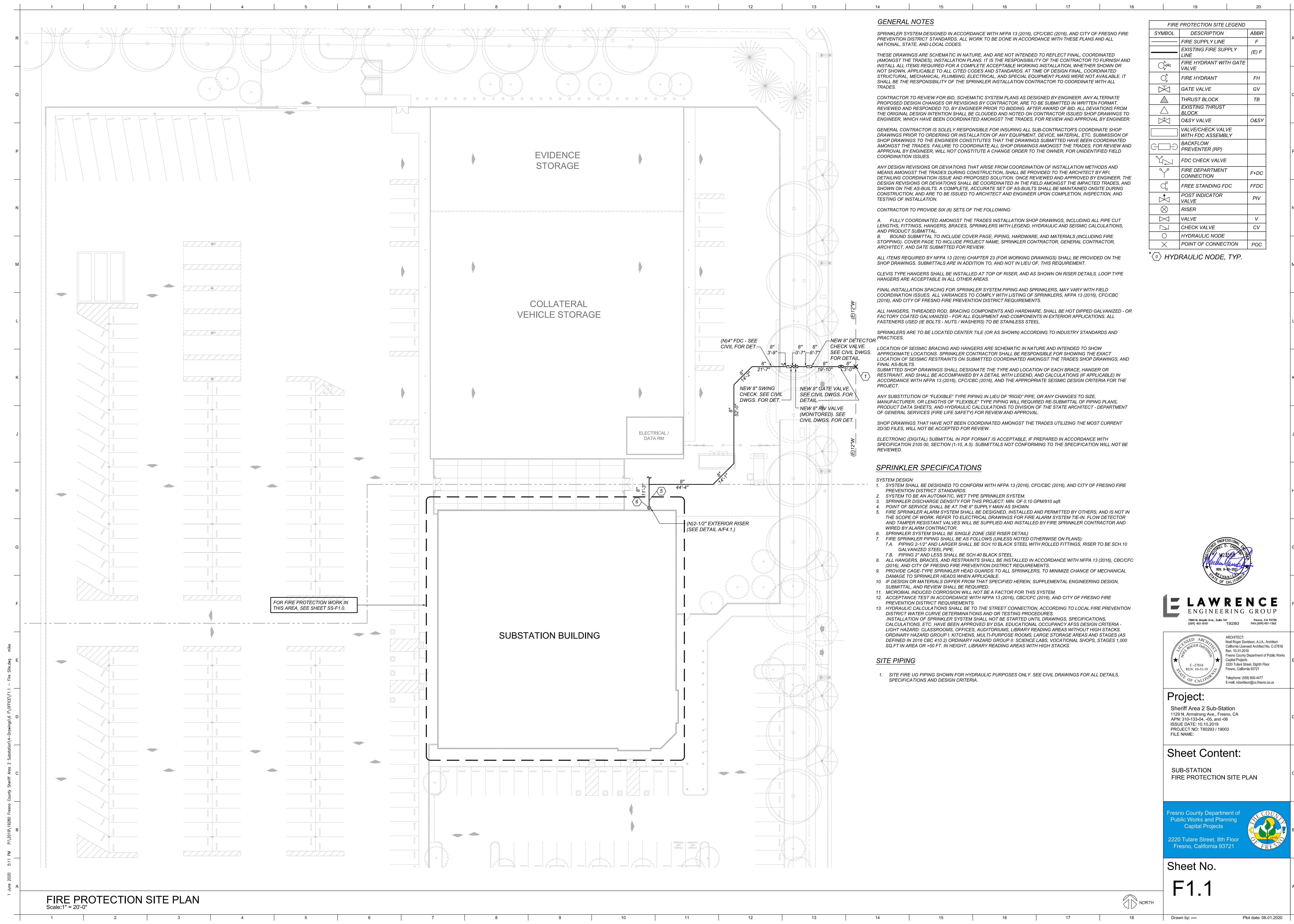
RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- 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).
- 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.
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- 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 Designer Name:	C. Scott Davidson	Responsible Designer Signature:	
Company:	Hardin-Davidson Engineering	Date Signed:	
Address:	356 Pollasky Ave. Suite 200	License:	E17850
City/State/Zip:	Clovis, CA 93612	Phone:	559-323-4995

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards> September 2017

	 Hardin-Davidson Engineering 356 Pollasky Ave. Suite 200 Clovis, CA 93612 559-323-4995 tel www.hardin-davidson.com
	ARCHITECT: Neil Roger Davidson, A.I.A., Architect California Licensed Architect No. C-27818 Exp. 10-31-2021 Fresno County Department of Public Works Capital Projects 2220 Tulare Street, Eighth Floor Fresno, California 93721 Telephone: (559) 604-4477 E-mail: ndavidson@co.fresno.ca.us
Project: Sheriff Area 2 Sub-Station 1129 N. Armstrong Ave., Fresno, CA APN: 910-133-04 -05, and -06 ISSUE DATE: 6.1.2020 PROJECT NO. TR62293 / 19003 FILE NAME: 19074 - Elec_Split Bid Set	
Sheet Content: ENERGY COMPLIANCE DOCUMENTS	
Fresno County Department of Public Works and Planning Capital Projects 2220 Tulare Street, 8th Floor Fresno, California 93721 	
Sheet No. <h1>E4.1</h1>	



GENERAL NOTES

SPRINKLER SYSTEM DESIGNED IN ACCORDANCE WITH NFPA 13 (2016), CFC/CBC (2016), AND CITY OF FRESNO FIRE PREVENTION DISTRICT STANDARDS. ALL WORK TO BE DONE IN ACCORDANCE WITH THESE PLANS AND ALL NATIONAL, STATE, AND LOCAL CODES.

THESE DRAWINGS ARE SCHEMATIC IN NATURE, AND ARE NOT INTENDED TO REFLECT FINAL, COORDINATED (AMONGST THE TRADES), INSTALLATION PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE ACCEPTABLE WORKING INSTALLATION, WHETHER SHOWN OR NOT SHOWN, APPLICABLE TO ALL CITED CODES AND STANDARDS. AT TIME OF DESIGN FINAL, COORDINATED STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND SPECIAL EQUIPMENT PLANS WERE NOT AVAILABLE. IT SHALL BE THE RESPONSIBILITY OF THE SPRINKLER INSTALLATION CONTRACTOR TO COORDINATE WITH ALL TRADES.

CONTRACTOR TO REVIEW FOR BID, SCHEMATIC SYSTEM PLANS AS DESIGNED BY ENGINEER. ANY ALTERNATE PROPOSED DESIGN CHANGES OR REVISIONS BY CONTRACTOR, ARE TO BE SUBMITTED IN WRITTEN FORMAT, REVIEWED AND RESPONDED TO BY ENGINEER PRIOR TO BIDDER AWARD OF BID. ALL DEVIATIONS FROM THE ORIGINAL DESIGN INTENTION SHALL BE CLOUDED AND NOTED ON CONTRACTOR ISSUED SHOP DRAWINGS TO ENGINEER, WHICH HAVE BEEN COORDINATED AMONGST THE TRADES, FOR REVIEW AND APPROVAL BY ENGINEER.

GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR INSURING ALL SUB-CONTRACTOR'S COORDINATE SHOP DRAWINGS PRIOR TO ORDERING OR INSTALLATION OF ANY EQUIPMENT, DEVICE, MATERIAL, ETC. SUBMISSION OF SHOP DRAWINGS TO THE ENGINEER CONSTITUTES THAT THE DRAWINGS SUBMITTED HAVE BEEN COORDINATED AMONGST THE TRADES. FAILURE TO COORDINATE ALL SHOP DRAWINGS AMONGST THE TRADES, FOR REVIEW AND APPROVAL BY ENGINEER, WILL NOT CONSTITUTE A CHANGE ORDER TO THE OWNER, FOR UNIDENTIFIED FIELD COORDINATION ISSUES.

ANY DESIGN REVISIONS OR DEVIATIONS THAT ARISE FROM COORDINATION OF INSTALLATION METHODS AND MEANS AMONGST THE TRADES DURING CONSTRUCTION, SHALL BE PROVIDED TO THE ARCHITECT BY RFI. DETAILING COORDINATION ISSUE AND PROPOSED SOLUTION, ONCE REVIEWED AND APPROVED BY ENGINEER, THE DESIGN REVISIONS OR DEVIATIONS SHALL BE COORDINATED IN THE FIELD AMONGST THE IMPACTED TRADES, AND SHOWN ON THE AS-BUILTS. A COMPLETE, ACCURATE SET OF AS-BUILTS SHALL BE MAINTAINED ON-SITE DURING CONSTRUCTION, AND ARE TO BE ISSUED TO ARCHITECT AND ENGINEER UPON COMPLETION, INSPECTION, AND TESTING OF INSTALLATION.

CONTRACTOR TO PROVIDE SIX (6) SETS OF THE FOLLOWING:

- A. FULLY COORDINATED AMONGST THE TRADES INSTALLATION SHOP DRAWINGS, INCLUDING ALL PIPE CUT LENGTHS, FITTINGS, HANGERS, BRACES, SPRINKLERS WITH LEGEND, HYDRAULIC AND SEISMIC CALCULATIONS, AND PRODUCT SUBMITTAL
- B. BOUND SUBMITTAL TO INCLUDE COVER PAGE, PIPING, HARDWARE, AND MATERIALS (INCLUDING FIRE STOPPING), COVER PAGE TO INCLUDE PROJECT NAME, SPRINKLER CONTRACTOR, GENERAL CONTRACTOR, ARCHITECT, AND DATE SUBMITTED FOR REVIEW.

ALL ITEMS REQUIRED BY NFPA 13 (2016) CHAPTER 23 (FOR WORKING DRAWINGS) SHALL BE PROVIDED ON THE SHOP DRAWINGS. SUBMITTALS ARE IN ADDITION TO, AND NOT IN LIEU OF, THIS REQUIREMENT.

CLEVIS TYPE HANGERS SHALL BE INSTALLED AT TOP OF RISER, AND AS SHOWN ON RISER DETAILS. LOOP TYPE HANGERS ARE ACCEPTABLE IN ALL OTHER AREAS.

FINAL INSTALLATION SPACING FOR SPRINKLER SYSTEM PIPING AND SPRINKLERS, MAY VARY WITH FIELD COORDINATION ISSUES. ALL VARIANCES TO COMPLY WITH LISTING OF SPRINKLERS, NFPA 13 (2016), CFC/CBC (2016), AND CITY OF FRESNO FIRE PREVENTION DISTRICT REQUIREMENTS.

ALL HANGERS, THREADED ROD, BRACING COMPONENTS AND HARDWARE, SHALL BE HOT DIPPED GALVANIZED - OR FACTORY COATED GALVANIZED - FOR ALL EQUIPMENT AND COMPONENTS IN EXTERIOR APPLICATIONS. ALL FASTENERS USED (IE BOLTS - NUTS / WASHERS) TO BE STAINLESS STEEL.

SPRINKLERS ARE TO BE LOCATED CENTER TILE (OR AS SHOWN) ACCORDING TO INDUSTRY STANDARDS AND PRACTICES.

LOCATION OF SEISMIC BRACING AND HANGERS ARE SCHEMATIC IN NATURE AND INTENDED TO SHOW APPROXIMATE LOCATIONS. SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR SHOWING THE EXACT LOCATION OF SEISMIC RESTRAINTS ON SUBMITTED COORDINATED AMONGST THE TRADES SHOP DRAWINGS, AND FINAL AS-BUILTS.

SUBMITTED SHOP DRAWINGS SHALL DESIGNATE THE TYPE AND LOCATION OF EACH BRACE, HANGER OR RESTRAINT, AND SHALL BE ACCOMPANIED BY A DETAIL WITH LEGEND, AND CALCULATIONS (IF APPLICABLE) IN ACCORDANCE WITH NFPA 13 (2016), CFC/CBC (2016), AND THE APPROPRIATE SEISMIC DESIGN CRITERIA FOR THE PROJECT.

ANY SUBSTITUTION OF "FLEXIBLE" TYPE PIPING IN LIEU OF "RIGID" PIPE, OR ANY CHANGES TO SIZE, MANUFACTURER, OR LENGTHS OF "FLEXIBLE" TYPE PIPING WILL REQUIRE RE-SUBMITTAL OF PIPING PLANS, PRODUCT DATA SHEETS, AND HYDRAULIC CALCULATIONS TO DIVISION OF THE STATE ARCHITECT - DEPARTMENT OF GENERAL SERVICES (FIRE LIFE SAFETY) FOR REVIEW AND APPROVAL.

SHOP DRAWINGS THAT HAVE NOT BEEN COORDINATED AMONGST THE TRADES UTILIZING THE MOST CURRENT 2D/3D FILES, WILL NOT BE ACCEPTED FOR REVIEW.

ELECTRONIC (DIGITAL) SUBMITTAL IN PDF FORMAT IS ACCEPTABLE, IF PREPARED IN ACCORDANCE WITH SPECIFICATION 2105 00, SECTION (1-10, A.5). SUBMITTALS NOT CONFORMING TO THE SPECIFICATION WILL NOT BE REVIEWED.

SPRINKLER SPECIFICATIONS

SYSTEM DESIGN:

1. SYSTEM SHALL BE DESIGNED TO CONFORM WITH NFPA 13 (2016), CFC/CBC (2016), AND CITY OF FRESNO FIRE PREVENTION DISTRICT STANDARDS.
2. SYSTEM TO BE AN AUTOMATIC, WET TYPE SPRINKLER SYSTEM.
3. SPRINKLER DISCHARGE DENSITY FOR THIS PROJECT: MIN. OF 0.10 GPM/910 sqft.
4. POINT OF SERVICE SHALL BE AT THE 8" SUPPLY MAIN AS SHOWN.
5. FIRE SPRINKLER ALARM SYSTEM SHALL BE DESIGNED, INSTALLED AND PERMITTED BY OTHERS, AND IS NOT IN THE SCOPE OF WORK. REFER TO ELECTRICAL DRAWINGS FOR FIRE ALARM SYSTEM TIE-IN. FLOW DETECTOR AND TAMPER RESISTANT VALVES WILL BE SUPPLIED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR AND WIRED BY ALARM CONTRACTOR.
6. SPRINKLER SYSTEM SHALL BE SINGLE ZONE (SEE RISER DETAIL).
7. FIRE SPRINKLER PIPING SHALL BE AS FOLLOWS (UNLESS NOTED OTHERWISE ON PLANS):
 - 7.A. PIPING 2-1/2" AND LARGER SHALL BE SCH. 10 BLACK STEEL WITH ROLLED FITTINGS, RISER TO BE SCH. 10 GALVANIZED STEEL PIPE.
 - 7.B. PIPING 2" AND LESS SHALL BE SCH. 40 BLACK STEEL.
8. ALL HANGERS, BRACES, AND RESTRAINTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2016), CFC/CBC (2016), AND CITY OF FRESNO FIRE PREVENTION DISTRICT REQUIREMENTS.
9. PROVIDE CAGE-TYPE SPRINKLER HEAD GUARDS TO ALL SPRINKLERS, TO MINIMIZE CHANCE OF MECHANICAL DAMAGE TO SPRINKLER HEADS WHEN APPLICABLE.
10. IF DESIGN OR MATERIALS DIFFER FROM THAT SPECIFIED HEREIN, SUPPLEMENTAL ENGINEERING DESIGN, SUBMITTAL, AND REVIEW SHALL BE REQUIRED.
11. MICROBIAL INDUCED CORROSION WILL NOT BE A FACTOR FOR THIS SYSTEM.
12. ACCEPTANCE TEST IN ACCORDANCE WITH NFPA 13 (2016), CFC/CBC (2016), AND CITY OF FRESNO FIRE PREVENTION DISTRICT REQUIREMENTS.
13. HYDRAULIC CALCULATIONS SHALL BE TO THE STREET CONNECTION, ACCORDING TO LOCAL FIRE PREVENTION DISTRICT WATER CURVE DETERMINATIONS AND OR TESTING PROCEDURES. INSTALLATION OF SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL DRAWINGS, SPECIFICATIONS, CALCULATIONS, ETC. HAVE BEEN APPROVED BY DSA. EDUCATIONAL OCCUPANCY AFSS DESIGN CRITERIA - LIGHT HAZARD: CLASSROOMS, OFFICES, AUDITORIUMS, LIBRARY READING AREAS WITHOUT HIGH STACKS. ORDINARY HAZARD GROUP I: KITCHENS, MULTI-PURPOSE ROOMS, LARGE STORAGE AREAS AND STAGES (AS DEFINED IN 2016 CBC 410.2) ORDINARY HAZARD GROUP II: SCIENCE LABS, VOCATIONAL SHOPS, STAGES 1,000 SQ.FT IN AREA OR >50 FT. IN HEIGHT, LIBRARY READING AREAS WITH HIGH STACKS.

SITE PIPING

1. SITE FIRE UG PIPING SHOWN FOR HYDRAULIC PURPOSES ONLY. SEE CIVIL DRAWINGS FOR ALL DETAILS, SPECIFICATIONS AND DESIGN CRITERIA.

FIRE PROTECTION SITE LEGEND		
SYMBOL	DESCRIPTION	ABBR
—	FIRE SUPPLY LINE	F
—	EXISTING FIRE SUPPLY LINE	(E) F
⊕	FIRE HYDRANT WITH GATE VALVE	FDH
⊙	FIRE HYDRANT	FH
⊗	GATE VALVE	GV
⊠	THRUST BLOCK	TB
⊡	EXISTING THRUST BLOCK	
⊗	O&SY VALVE	O&SY
⊗	VALVE/CHECK VALVE WITH FDC ASSEMBLY	
⊗	BACKFLOW PREVENTER (RP)	
⊗	FDC CHECK VALVE	
⊗	FIRE DEPARTMENT CONNECTION	F+DC
⊗	FREE STANDING FDC	FFDC
⊗	POST INDICATOR VALVE	PV
⊗	RISER	
⊗	VALVE	V
⊗	CHECK VALVE	CV
⊗	HYDRAULIC NODE	
⊗	POINT OF CONNECTION	POC

⊗ HYDRAULIC NODE, TYP.



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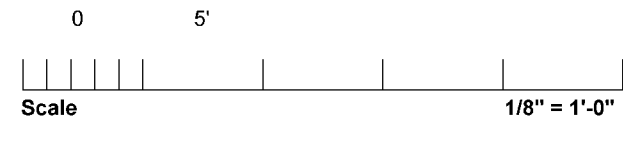
Project:
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 1128 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 10.10.2019
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 FILE NAME:

Sheet Content:
 SUB-STATION
 FIRE PROTECTION SITE PLAN

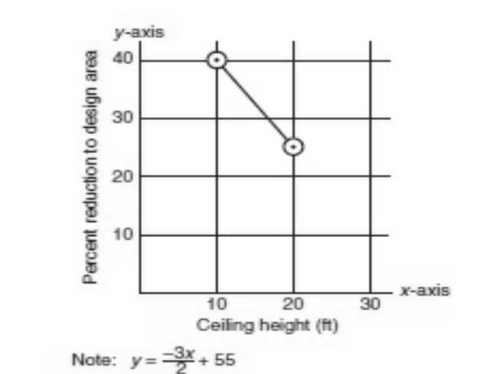
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Sheet No.
F1.1





Per NFPA 13 (2013) Section 11.2.3.2.3.1, and figure 11.2.3.2.3.1 - where Quick Response Sprinklers are used throughout a System of Light Hazard Occupancy, with a 10' maximum Ceiling Height, and where there are no unprotected ceiling pockets, the System Area of Operation shall be permitted to be reduced without revising the Density.



Note: $y = \frac{x-10}{10} \times 0.05$
 For ceiling height ≥ 10 ft and ≤ 20 ft, $y = 0.05$
 For ceiling height > 20 ft, $y = 0$
 For ceiling height < 10 ft, $y = 0.10$

FIGURE 11.2.3.2.3.1 Design Area Reduction For Quick-Response Sprinklers.

Sprinkler Components Legend		
	FLEXIBLE GROOVED COUPLING	
	SEISMIC SWING JOINT	
	PIPING W/ GROOVED FITTINGS	
	PIPING W/ THREADED FITTINGS	
	PIPING W/ PENDANT SPRINKLER (Over - See Detail)	
	PIPING W/ UPRIGHT SPRINKLER (Over - See Detail)	
	FIRE PENETRATION THROUGH WALL	
	FIRE PENETRATION THROUGH CEILING	
	FLEX DROP W/ PENDANT SPRINKLER (Use This Project)	
Details are specific to construction type.		
Sprinkler Brace / Hanger Legend		
	LATERAL SEISMIC BRACE (Perpendicular)	Sheet F1.0
	LONGITUDINAL SEISMIC BRACE (Parallel)	Sheet F1.0
	4-WAY SEISMIC BRACE (Parallel / Perpendicular)	Sheet F1.0
	END OF LINE RESTRAINT	Sheet F1.0
	PIPE HANGER	Sheet F1.0

Hydraulic Information	
Remotes Area No. 1	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY	0.10 lb/sq ft for 345.00 sq ft (Actual 3136.00 sq ft)
TOTAL NOSE STREAMS	100.00
DRY CAPACITY	0.00 gpm
TOTAL HEADS FLOWING	16
K-FACTOR	5.6
TOTAL WATER REQUIRED	334.33
TOTAL PRESSURE REQUIRED	33.855
BASE OF RISER (gpm)	234.33
BASE OF RISER (psi)	23.33
SAFETY MARGIN (psi)	+10.303 (23.3%)

Hydraulic Calculation Area per NFPA 13 (2016) 5.2 A.6.2, 11.2.3.2.3.1, Figure 11.2.3.2.3.1, 11.2.3.2.4, and 11.2.3.7.1 for Light Hazard Occupancy. Adjustments made for 12' Max Ceiling Height.

All Fire Drops Hydraulically Calculated as 4'-0" Vertical Flexible Drops with an Equivalent Length of 37' 0" of 1" Sch. 40 Pipe. All Flexible Drops attached to 1" Sch. 40 Drop or Armover - Length Shown.

Note: The City of Fresno issued Water Flow Information, contains a 1% Safety Margin. See current Water Flow Measurement.

End of Branch Line Restraints are not Required Where Pipes are less than 6" Between Top of Pipe and Point of Attachment to Structure, per NFPA 13 (2016) 9.3.5.5. Unless Noted Otherwise, This Project - Upright Deflectors to be located 6" Below Joints, and Hanger Rods are longer than 6 inches.

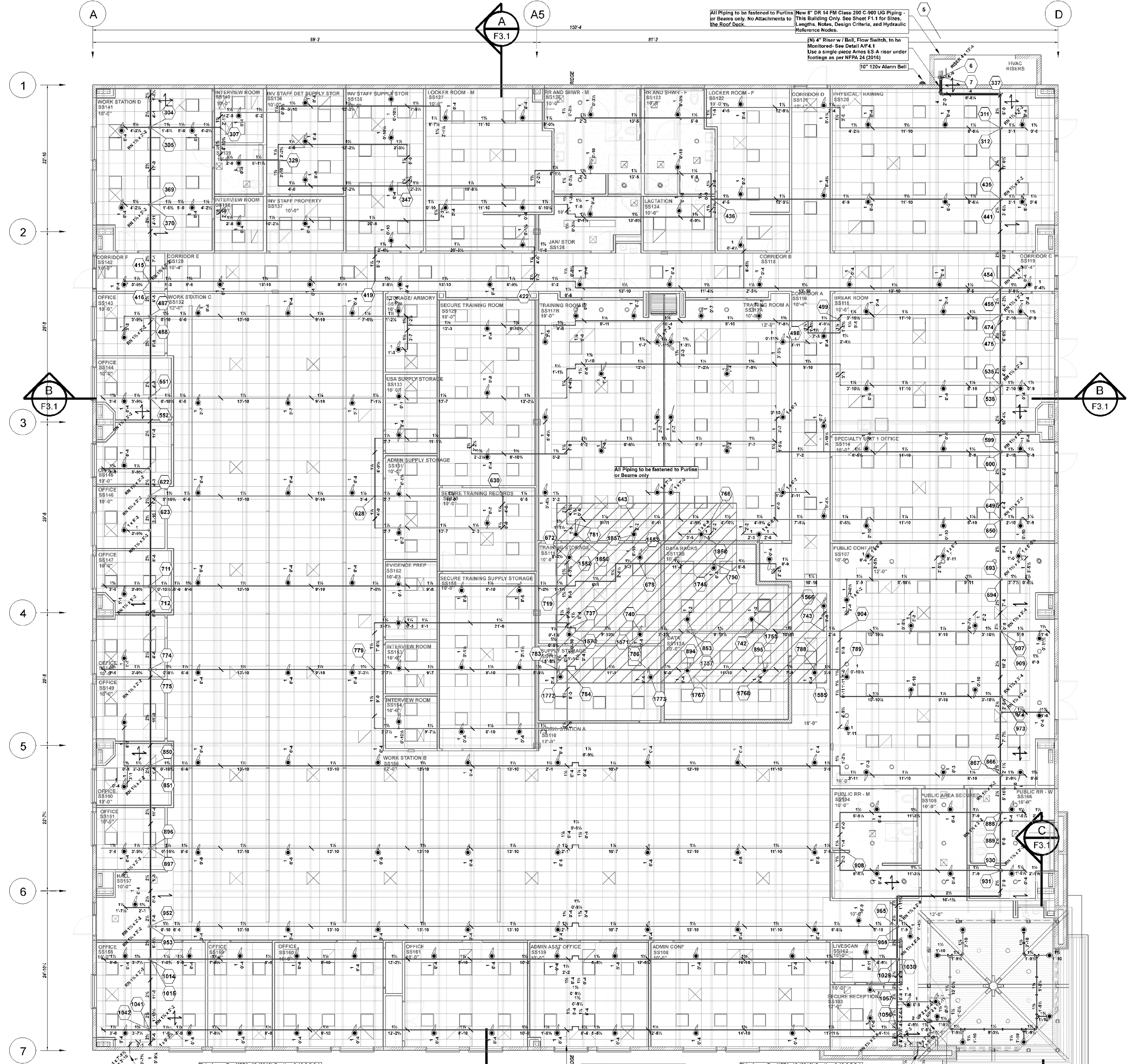
Sprinklers omitted in interior attic spaces, exterior walkways, overhangs, and canopies. Per NFPA 13 (2016) Sections 5.1.1.1, 5.1.1.2, 5.1.1.3, 5.1.1.4, 5.1.1.5, 5.1.1.6, 5.1.1.7, 5.1.1.8, 5.1.1.9, 5.1.1.10, 5.1.1.11, 5.1.1.12, 5.1.1.13, 5.1.1.14, 5.1.1.15, 5.1.1.16, 5.1.1.17, 5.1.1.18, 5.1.1.19, 5.1.1.20, 5.1.1.21, 5.1.1.22, 5.1.1.23, 5.1.1.24, 5.1.1.25, 5.1.1.26, 5.1.1.27, 5.1.1.28, 5.1.1.29, 5.1.1.30, 5.1.1.31, 5.1.1.32, 5.1.1.33, 5.1.1.34, 5.1.1.35, 5.1.1.36, 5.1.1.37, 5.1.1.38, 5.1.1.39, 5.1.1.40, 5.1.1.41, 5.1.1.42, 5.1.1.43, 5.1.1.44, 5.1.1.45, 5.1.1.46, 5.1.1.47, 5.1.1.48, 5.1.1.49, 5.1.1.50, 5.1.1.51, 5.1.1.52, 5.1.1.53, 5.1.1.54, 5.1.1.55, 5.1.1.56, 5.1.1.57, 5.1.1.58, 5.1.1.59, 5.1.1.60, 5.1.1.61, 5.1.1.62, 5.1.1.63, 5.1.1.64, 5.1.1.65, 5.1.1.66, 5.1.1.67, 5.1.1.68, 5.1.1.69, 5.1.1.70, 5.1.1.71, 5.1.1.72, 5.1.1.73, 5.1.1.74, 5.1.1.75, 5.1.1.76, 5.1.1.77, 5.1.1.78, 5.1.1.79, 5.1.1.80, 5.1.1.81, 5.1.1.82, 5.1.1.83, 5.1.1.84, 5.1.1.85, 5.1.1.86, 5.1.1.87, 5.1.1.88, 5.1.1.89, 5.1.1.90, 5.1.1.91, 5.1.1.92, 5.1.1.93, 5.1.1.94, 5.1.1.95, 5.1.1.96, 5.1.1.97, 5.1.1.98, 5.1.1.99, 5.1.1.100.

Sprinklers shall be installed under exterior roofs or canopies exceeding 4 feet in width. Obtain permit from Fresno Fire Prevention Division for the installation of the sprinkler system, 2016 NFPA 13 and FPD policy No. 401.019.

Deflection Sprinklers are permitted to be omitted where the canopy or roof is of non-combustible or limited combustible construction.

The general contractor shall coordinate interfaces between the fire alarm contractor, sprinkler contractor, mechanical contractor and any other pertinent trades (fire alarm, sprinkler system, hood and vent extinguishing system, HVAC, fire smoke dampers, etc.). All work must result in a single system and may not be covered until the required fire inspections have been completed by the fire department.

Submit plans to and obtain permit from the fire prevention division for the installation or modification of the alarm system, see FPD development policy No. 401.012.



Sprinkler Legend						
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type
	V-tectric	V2708		207	5.6/Pendant	Quick
				Total = 207		Chromi 155°F

Per NFPA 13 (2016) Table 9.3.6.4 (a) Maximum Spacing of Steel Branch Line Retainers (ft)			
This project: Use the values for Cp = 50			
Pipe (in.)	Cp = 50	Cp = 25	Cp = 10
1"	43	30	27
1-1/4"	46	33	27
1-1/2"	49	35	27
2"	53	38	27

RATED WALL LEGEND	
	1 HR RATED BARRIER
	1 HR RATED CORRIDOR

Installation Contractor to verify all Hanger types, locations, and configurations with Project Structural Engineers before installation. All Hanger and Bracing Components are to be installed per NFPA 13 (2016), CBC / CFC (2016), and Manufacturer Installation Instructions.

Building is typical Steel Beam / Girder and Non-Combustible Joist Member Construction. All Design and Installation shall conform to NFPA 13 (2016), NFPA 24 (2016), CFC (2016), and City of Fresno Fire Prevention District / Building Department Standards. In sloped areas, Fire Sprinkler Piping Mains to follow the slope of the Roof as shown.

All Electrical Rooms / Equipment Rooms / Storage Rooms (limited to Class I-II Commodities a maximum of 5'-0" this project) and to be a Light Hazard Occupancy. Per NFPA 13 (2016) Table 5.6.2.2.1 (b) - The maximum Pendant Sprinkler in an Ordinary Group I or II Occupancy to be 130 sqft, with a maximum distance between Sprinklers of 15'-0".

Per NFPA 13 (2016) Table 8.6.2.2.1 (a) - The maximum Pendant Sprinkler in a Light Hazard Occupancy to be 225 sqft, with a maximum distance between Sprinklers of 15'-0".

Per NFPA 13 (2016) Section A.5.2 - All unused Attics to be a Light Hazard Occupancy.

Per NFPA 13 (2016) Section 8.5.4.2 - Sprinkler Deflectors shall be aligned parallel to callings, roofs, or the incline of stairs. Upright Sprinklers shall be installed with the frame arms parallel to the piping, unless listed otherwise.

Per NFPA 13 (2016) Figure 11.2.3.1.1 - Light Hazard Occupancy to be Hydraulically Calculated at a Density of .10 / 1500 sqft. minimum utilizing most demanding Sprinkler Spacing.

Per NFPA 13 (2016) Figure 11.2.3.1.1 - Ordinary Hazard Group I Occupancy to be Hydraulically Calculated at a Density of .15 / 1500 sqft. minimum utilizing most demanding Sprinkler Spacing.

Per NFPA 13 (2016) Figure 11.2.3.1.1 - Ordinary Hazard Group II Occupancy to be Hydraulically Calculated at a Density of .20 / 1500 sqft. minimum utilizing most demanding Sprinkler Spacing.

Per NFPA 13 (2016) Figure 11.2.3.1.1 - Where listed Quick Response Sprinklers are used, a reduction in the Hydraulically Calculated System Area of Operation shall be permitted to be reduced without revising the Density as indicated in Figure 11.2.3.2.3.1 - FOR LIGHT HAZARD ONLY.

Per NFPA 13 (2016) Section 11.2.3.2.4 - System Area of Operation shall be increased by 30% without revising the density when the Roof Slope exceeds 1 in 6 (a rise of 2 units in a single run of 12 units, a Roof Slope of 16.7% in non-storage applications. (NOT APPLICABLE THIS PROJECT)

Per NFPA 13 (2016) Section 8.16.2.5.3 - Systems to be equipped with Auxiliary Drains. If trapped water in Existing Branch Line contains less than 6.0 gallons an Auxiliary Drain shall not be required if Branch Line can be drained by the removal of a single Pendant Sprinkler.

Per NFPA 13 (2016) Handbook Sections 8.1.5.1.2.3 - 8.1.5.1.2.5, 8.1.5.1.2.1, Exhibit 8.33, 8.1.5.1.2.1, 8.1.5.1.2.2, 8.1.5.1.2.10-12, 8.1.5.1.2.14 - No Sprinkler protection required for Non-Combustible Construction type attics, and/or concealed spaces as defined.

Per NFPA 13 (2016) Section 8.15.7.2, A.8.15.7.2 - Sprinklers protection not required for exterior projections are constructed with materials that are Non-Combustible. Any Electrical Equipment Rooms to have no pass-through Piping. Coordinate with Electrical Contractor to ensure no Piping is installed above Electrical Equipment as per NFPA 72 (2016), and CFC 2016.

No Hangers or Braces are to be connected to the Deck. Per NFPA 13 (2016) Section 9.3.6.6 - Where Branch Lines



FOR PLAN CHECK ONLY
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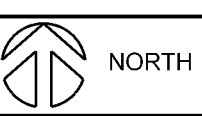
ARCHITECT:
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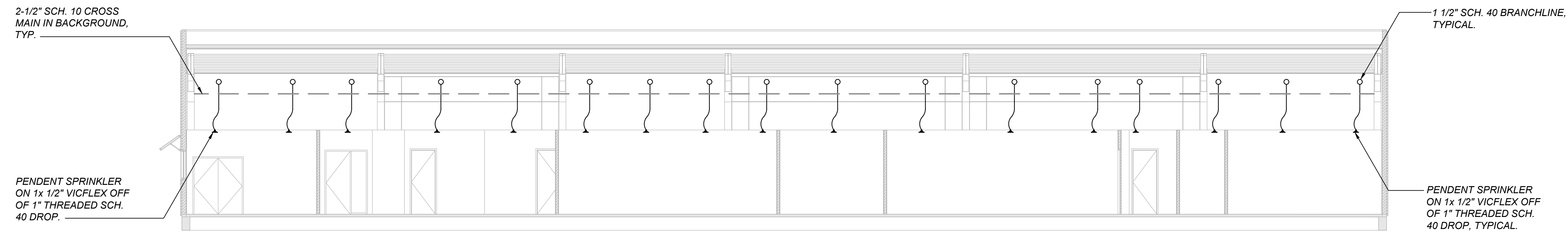
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Sheet Content:
 SUBSTATION FIRE SPRINKLER
 PIPING PLAN

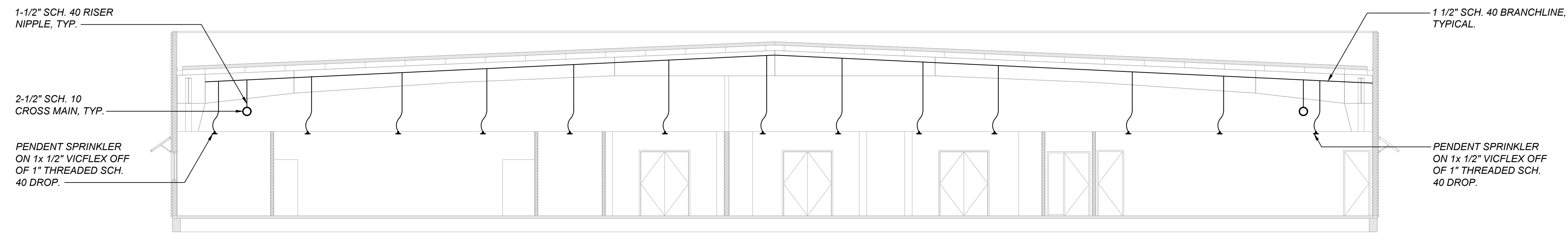
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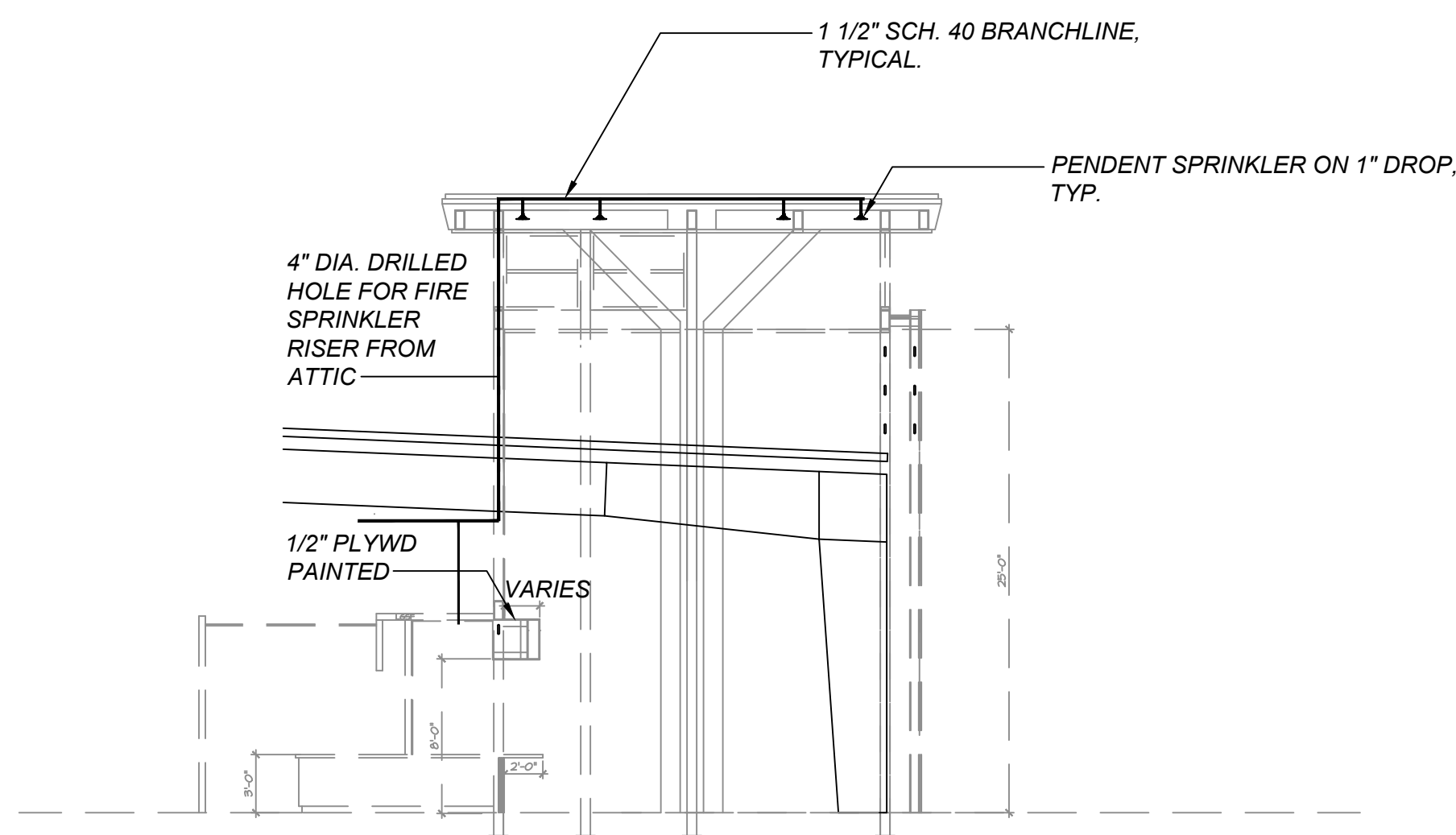




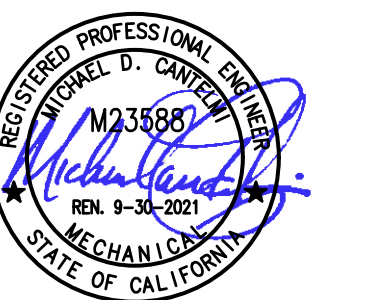
Section A
1/8" = 1'-0"



Section B
1/8" = 1'-0"



Section C
1/8" = 1'-0"



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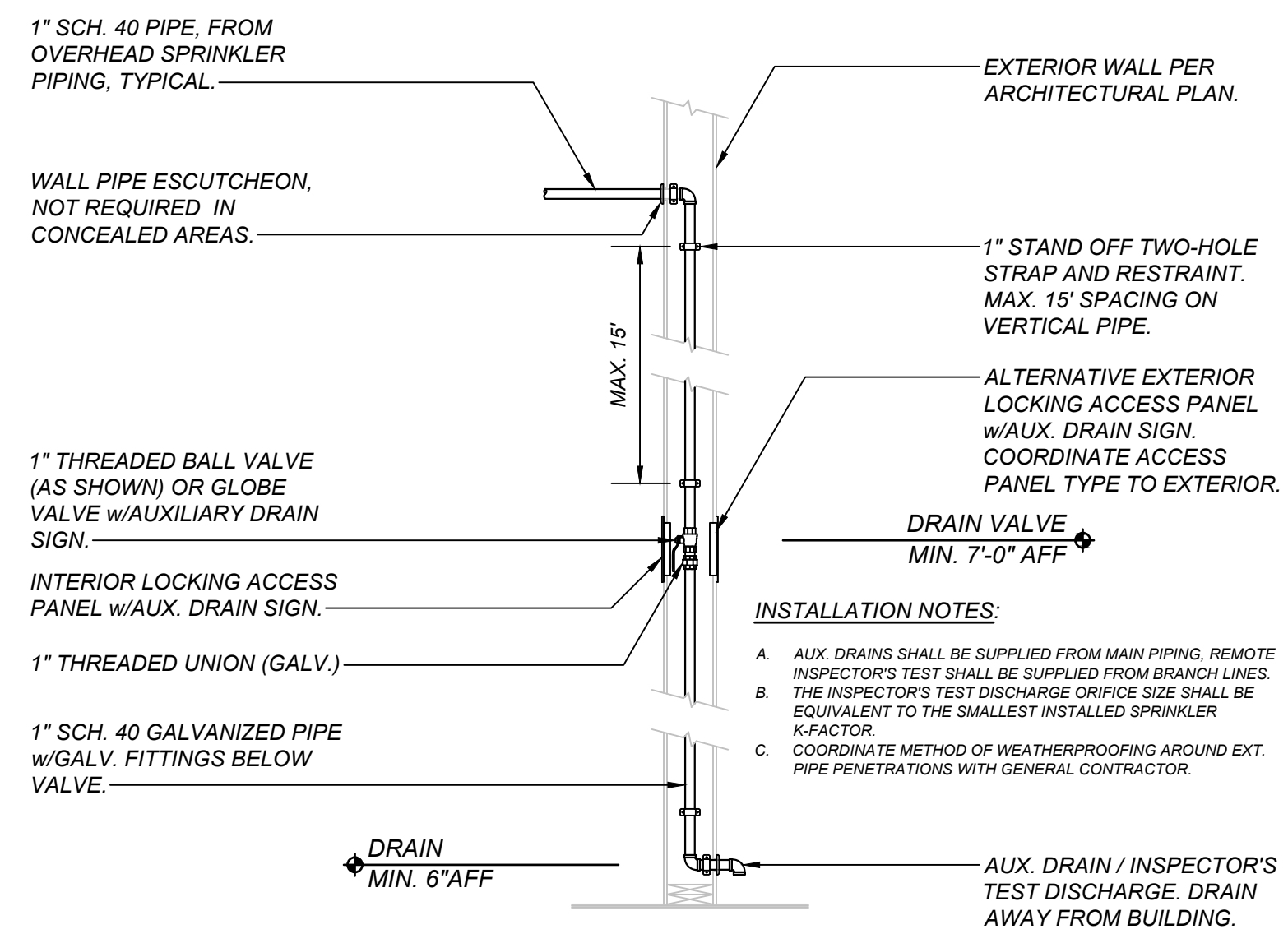
Sheet Content:
 SUB-STATION
 FIRE PROTECTION BUILDING SECTIONS

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 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

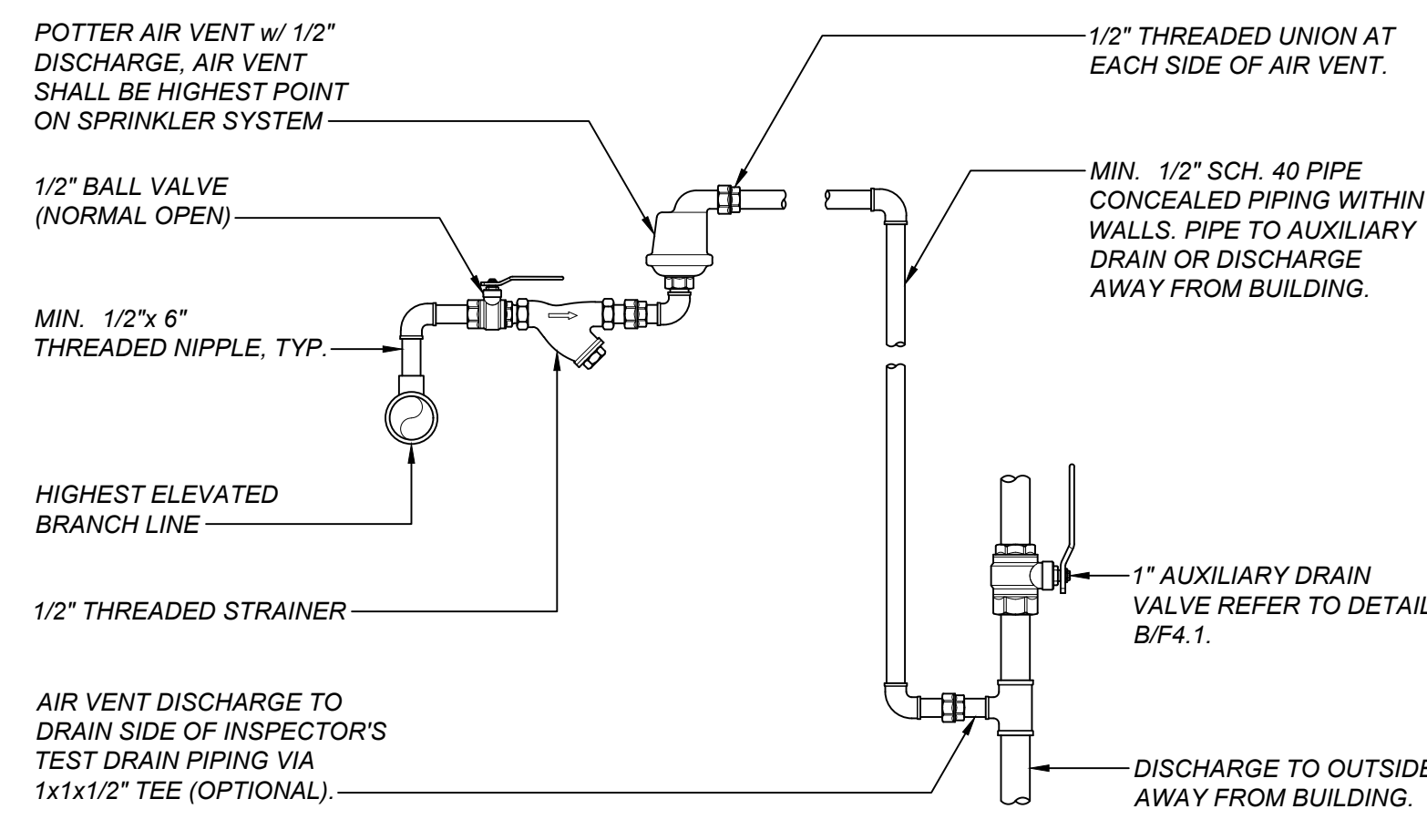


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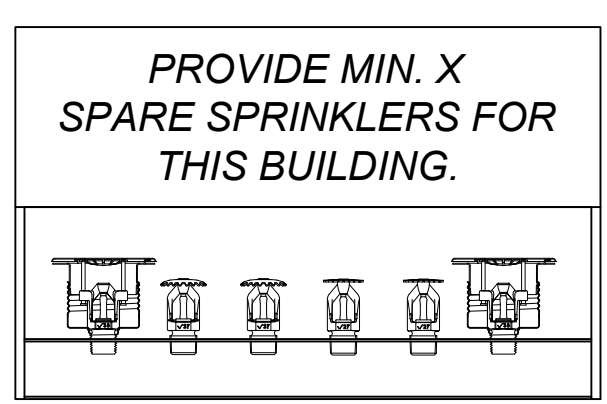




**CONCEALED AUXILIARY DRAIN DETAIL/
REMOTE INSPECTOR'S TEST**
SCALE: NONE FRM010 **B F4.1**

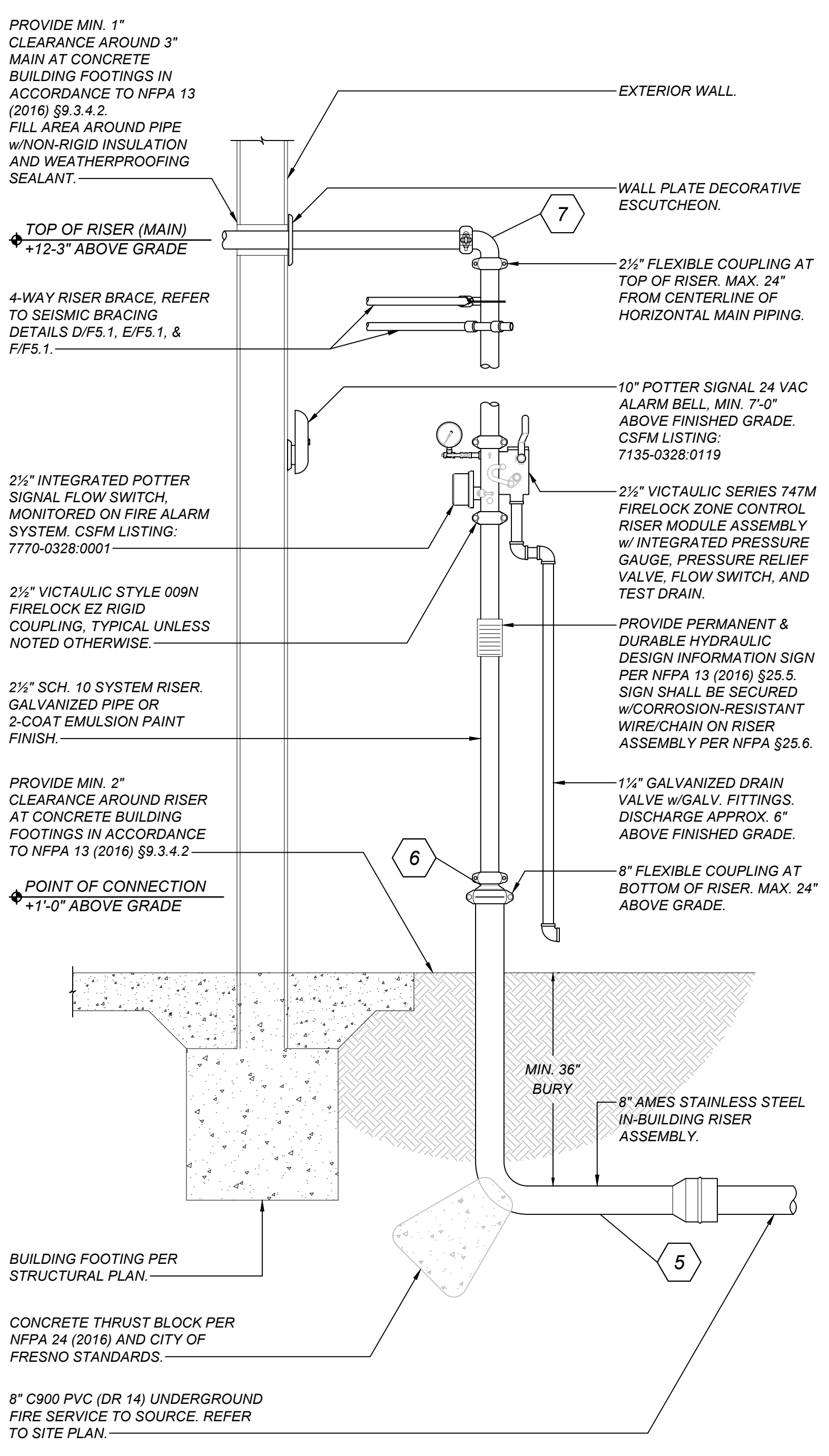


POTTER AIR VENT
SCALE: NONE FSSXXX **C F4.1**



- SPARE HEAD BOX NOTES:**
- PER NFPA 13 (2016) § 2.9.3 THE SPRINKLERS SHALL BE KEPT IN A CABINET LOCATED WHERE THE TEMPERATURE TO WHICH THEY ARE SUBJECTED WILL AT NO TIME EXCEED THE MAXIMUM CEILING TEMPERATURES SPECIFIED IN TABLE 6.2.5.1 FOR EACH OF THE SPRINKLERS WITHIN THE CABINET.
 - THE SPARE HEAD CABINET SHALL BE PLACED IN A SECURE LOCATION, PREFERABLY FASTENED TO A WALL ABOVE 6'-0" A.F.F. LOCATION SHALL BE COORDINATED BY THE OWNER.
 - PER NFPA 13 (2016) § 2.9.5 THE STOCK OF SPARE SPRINKLERS SHALL INCLUDE ALL TYPES AND RATINGS INSTALLED AND SHALL BE AS FOLLOWS:
 - FOR PROTECTED FACILITIES HAVING UNDER 300 SPRINKLERS — NO FEWER THAN SIX SPRINKLERS.
 - FOR PROTECTED FACILITIES HAVING 300 TO 1000 SPRINKLERS — NO FEWER THAN 12 SPRINKLERS.
 - FOR PROTECTED FACILITIES HAVING OVER 1000 SPRINKLERS — NO FEWER THAN 24 SPRINKLERS.
 - A MINIMUM OF TWO SPRINKLERS OF EACH TYPE AND TEMPERATURE RATING SHOULD BE PROVIDED.
 - PER NFPA 13 (2016) § 2.9.6 ONE SPRINKLER WRENCH AS SPECIFIED BY THE SPRINKLER MANUFACTURER SHALL BE PROVIDED IN THE CABINET FOR EACH TYPE OF SPRINKLER INSTALLED TO BE USED FOR THE REMOVAL AND INSTALLATION OF SPRINKLERS IN THE SYSTEM. ONE SPRINKLER WRENCH DESIGN CAN BE APPROPRIATE FOR MANY TYPES OF SPRINKLERS AND SHOULD NOT REQUIRE MULTIPLE WRENCHES OF THE SAME DESIGN.
 - PER NFPA 13 (2016) § 2.9.7 A LIST OF THE SPRINKLERS INSTALLED IN THE PROPERTY SHALL BE POSTED IN THE SPRINKLER CABINET. THE LIST SHALL INCLUDE THE FOLLOWING:
 - SPRINKLER IDENTIFICATION NUMBER (SN) IF EQUIPPED; OR THE MANUFACTURER, MODEL, ORIFICE, DEFLECTOR TYPE, THERMAL SENSITIVITY, AND PRESSURE RATING.
 - GENERAL DESCRIPTION.
 - QUANTITY OF EACH TYPE TO BE CONTAINED IN THE CABINET.
 - ISSUE OR REVISION DATE OF THE LIST.

SPARE HEAD BOX DETAIL
SCALE: NONE FRM010 **D F4.1**



**EXTERIOR RISER DETAIL:
2 1/2" SYSTEM RISER ON 8" IN-BUILDING RISER**
SCALE: NONE FSSXXX **A F4.1**

- RISER NOTES:**
- EACH RISER DETAIL IS A SCHEMATIC REPRESENTATION OF THE RISER(S), ORIENTATION OF FITTINGS, VALVES, GAUGES, AND OTHER DEVICES HAVE BEEN MODIFIED FOR ILLUSTRATION PURPOSES AND MAY VARY IN ACTUAL INSTALLATION.
 - PER NFPA 13 (2016) § 3.2.3.1 - A FLEXIBLE COUPLING SHALL BE INSTALLED WITHIN 24" OF THE TOP AND BOTTOM OF ALL RISERS. RISERS LESS THAN 3 FT IN LENGTH MAY OMIT FLEX COUPLINGS. ONE FLEX COUPLING IS ADEQUATE FOR RISERS 3' TO 7' IN LENGTH.
 - PER NFPA 13 (2016) § 3.5.8.3 - WHEN A FOUR-WAY BRACE AT THE TOP OF A RISER IS ATTACHED ON THE HORIZONTAL PIPING, IT SHALL BE WITHIN 24" OF THE CENTERLINE OF THE RISER AND THE LOADS FOR THAT BRACE SHALL INCLUDE BOTH THE VERTICAL AND HORIZONTAL PIPE.
 - PER NFPA 13 (2016) § 25.5 - THE INSTALLING CONTRACTOR SHALL IDENTIFY A HYDRAULICALLY DESIGNED SPRINKLER SYSTEM WITH A PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC SIGN SECURED WITH CORROSION RESISTANT WIRE, CHAIN, OR OTHER APPROVED MEANS.
 - PER NFPA 13 (2016) § 25.6.1 - THE INSTALLING CONTRACTOR SHALL PROVIDE A GENERAL INFORMATION SIGN USED TO DETERMINE SYSTEM DESIGN BASIS AND INFORMATION RELEVANT TO THE INSPECTION, TESTING, AND MAINTENANCE REQUIREMENTS REQUIRED BY NFPA 25.
 - LOCATION OF 1 1/2" SYSTEM DRAIN TO BE COORDINATED WITH GENERAL CONTRACTOR. DRAIN PIPE AND FITTINGS SHALL BE GALV.
 - FIRE RISER ROOM SHALL COMPLY WITH CBC (2016) 901.3 PER CFC (2016) SECTION 509.1 FIRE EQUIPMENT ROOMS SHALL BE IDENTIFIED IN AN APPROVED MANNER. APPROVED SIGNS SHALL BE DURABLE, PERMANENT, AND VISIBLE.

**EXTERIOR RISER DETAIL:
2 1/2" SYSTEM RISER ON 8" IN-BUILDING RISER**
SCALE: NONE FSSXXX **A F4.1**



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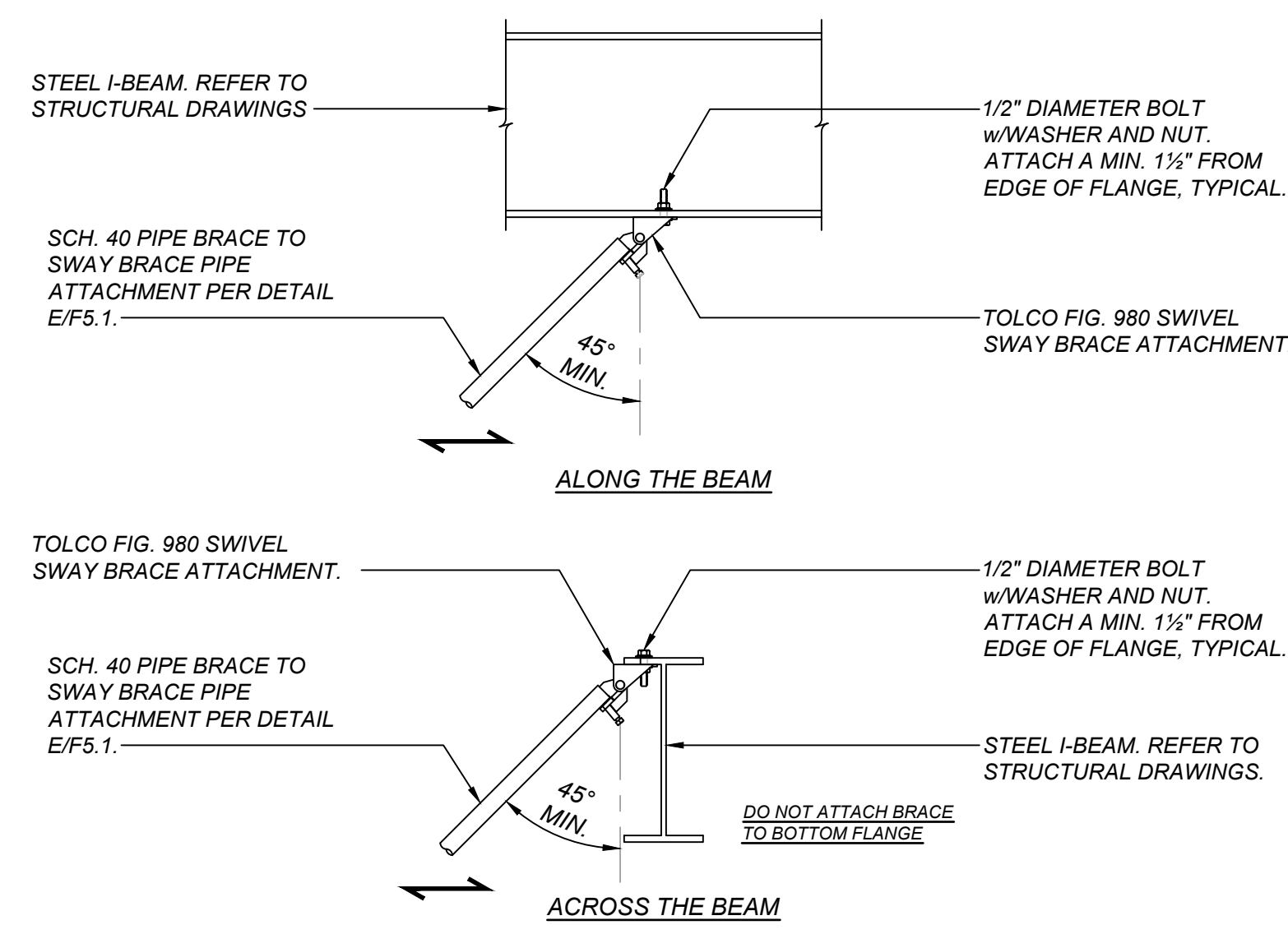
Project:
Sheriff Area 2 Sub-Station
1120 N. Armstrong Ave., Fresno, CA
APN: 310-133-04-.05, and -.06
ISSUE DATE: 10.10.2019
PROJECT NO: T80293 / 19003
FILE NAME:

Sheet Content:
SUB-STATION
FIRE PROTECTION RISER DETAILS

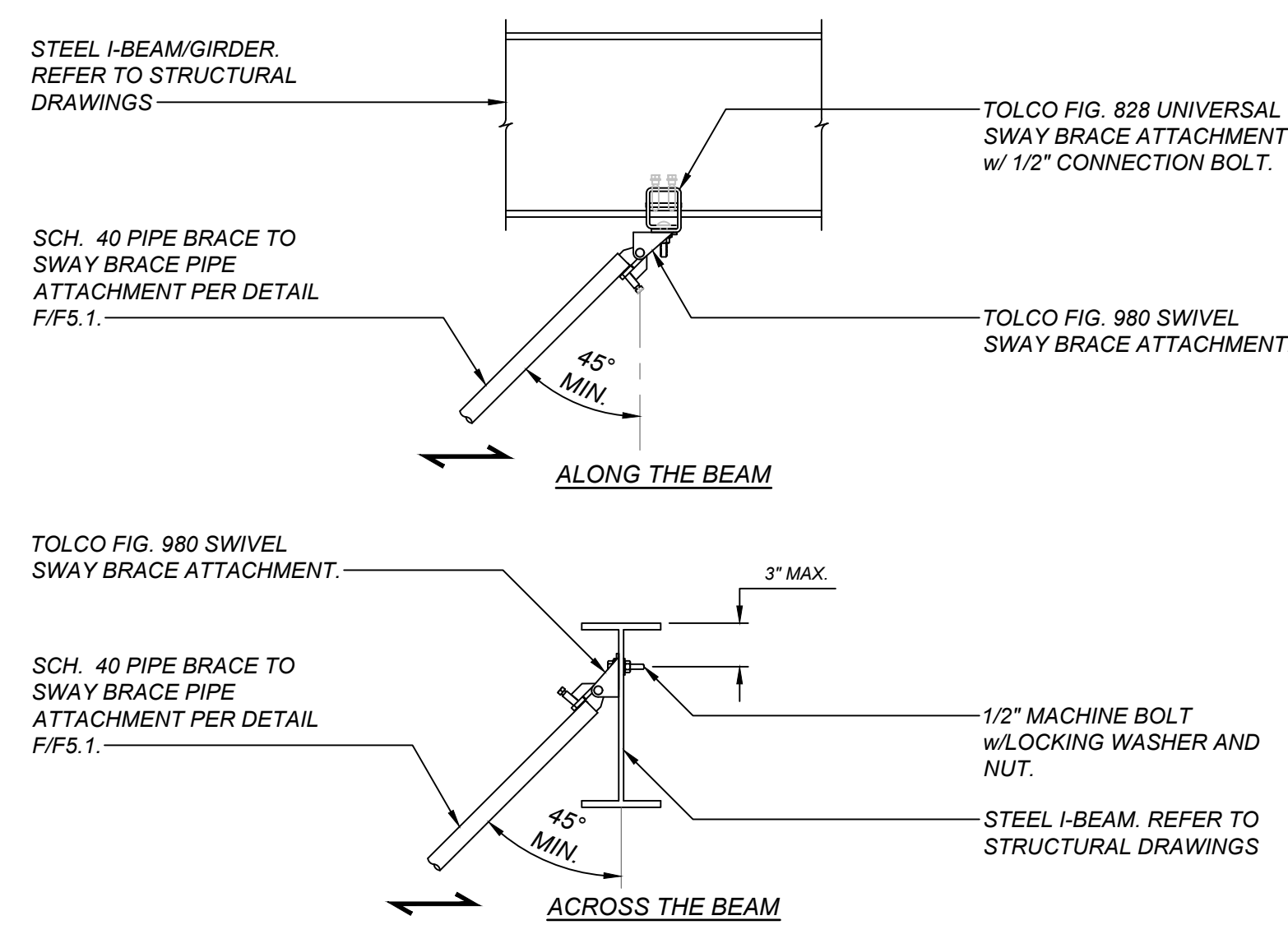
Fresno County Department of Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
F4.1

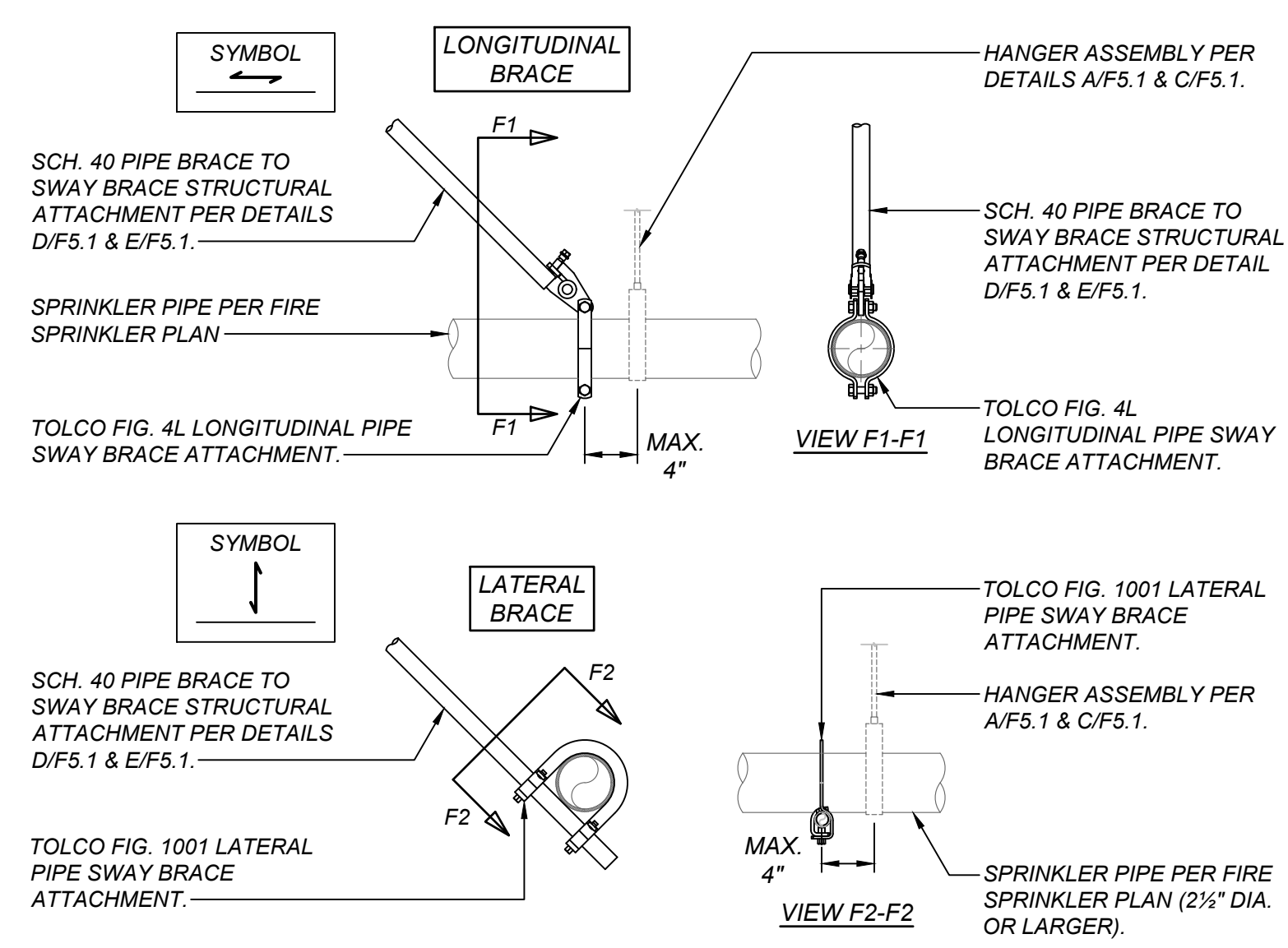




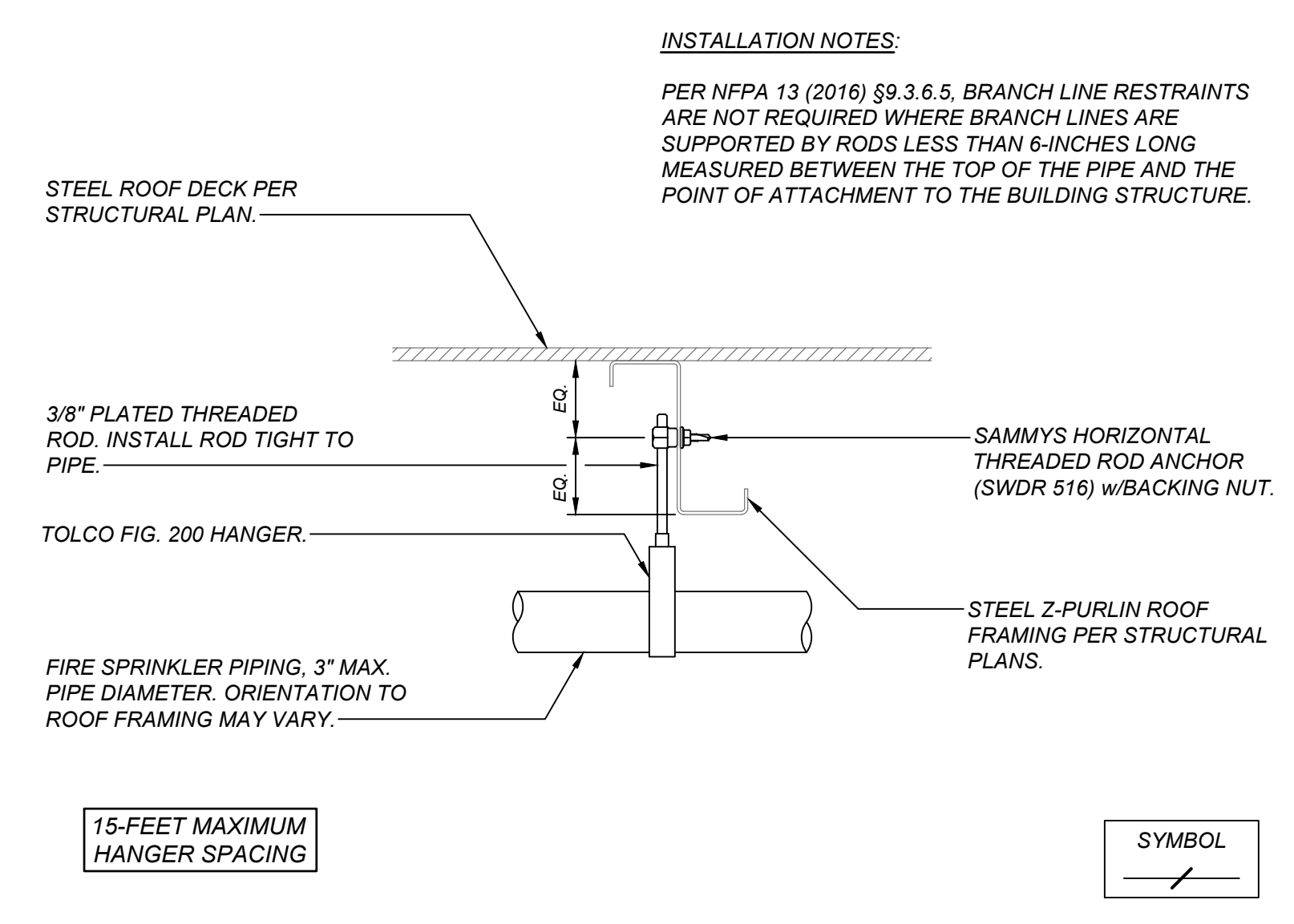
SWAY BRACE STRUCTURAL ATTACHMENT TO STEEL I-BEAM VIA DIRECT MACHINE BOLT
 SCALE: NONE FSS1008 **D** F5.1



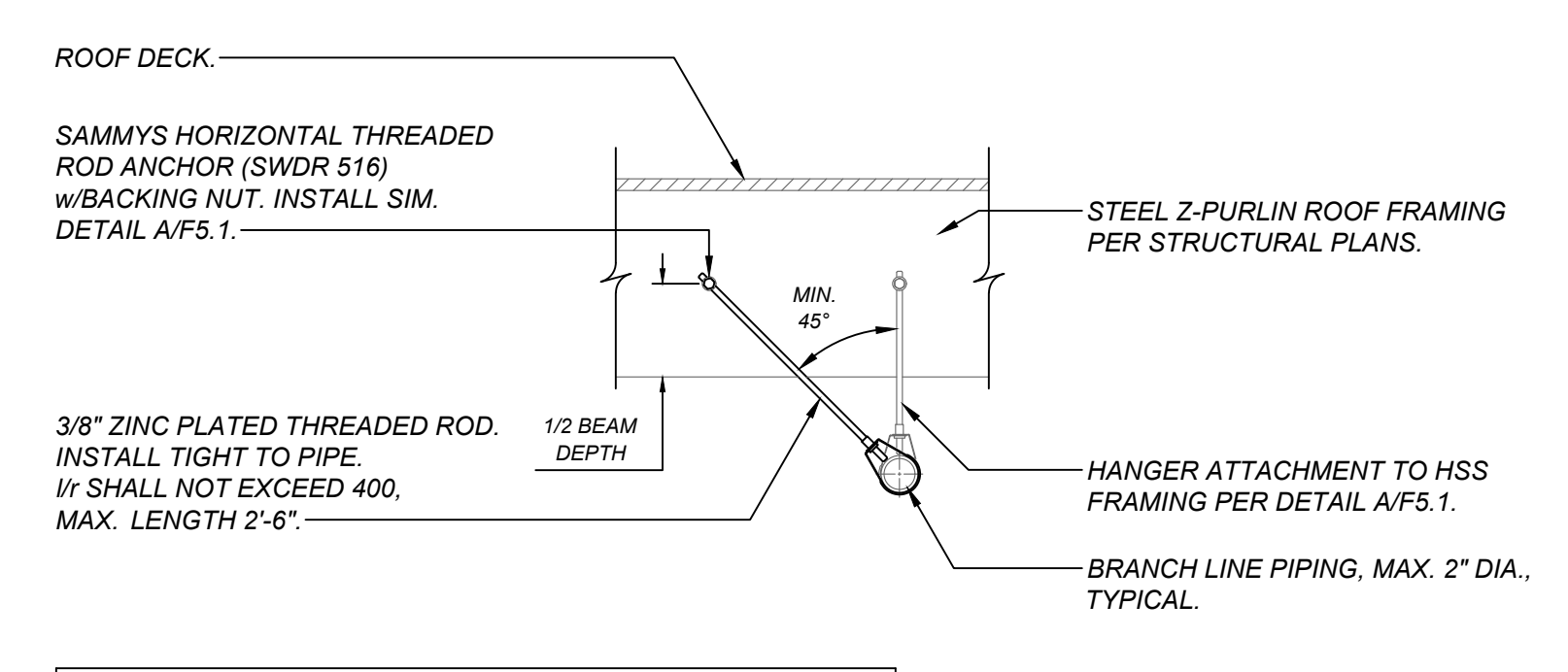
SWAY BRACE STRUCTURAL ATTACHMENT TO STEEL I-BEAM
 SCALE: NONE FSS1007 **E** F5.1



SWAY BRACE ATTACHMENT AT SPRINKLER MAIN PIPING
 SCALE: NONE FSS1009 **F** F5.1



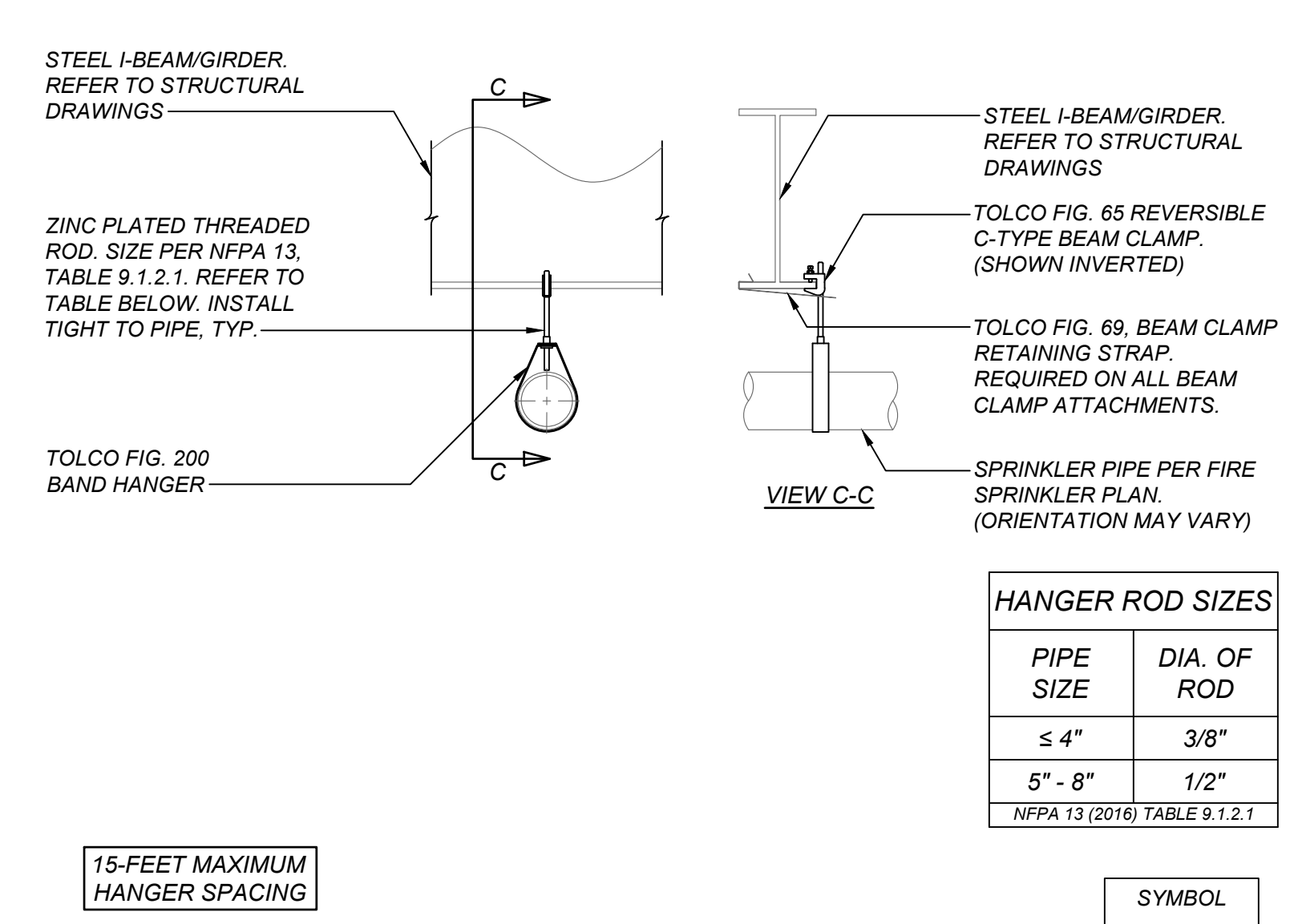
PIPING HANGER SUPPORT AT STEEL Z-PURLIN ROOF FRAMING
 SCALE: NONE FSS101 **A** F5.1



BRANCH LINE RESTRAINT AT STEEL PURLIN
 SCALE: NONE FSS102-11.19 **B** F5.1

PIPE DIA. (INCHES)	SEISMIC COEFFICIENT - C _s			
	C _s ≤ 0.50	0.50 < C _s ≤ 0.71	0.71 < C _s ≤ 1.40	C _s ≥ 1.40
1	43-FT	36-FT	26-FT	22-FT
1 1/4	46-FT	39-FT	27-FT	24-FT
1 1/2	49-FT	41-FT	29-FT	25-FT
2	53-FT	45-FT	31-FT	27-FT

NFPA 13 (2016) TABLE 9.3.6.4(b)



SPRINKLER PIPE HANGER SUPPORT AT STEEL I-BEAM
 SCALE: NONE FSS101 **C** F5.1

PIPE SIZE	DIA. OF ROD
≤ 4"	3/8"
5" - 8"	1/2"

NFPA 13 (2016) TABLE 9.1.2.1

INSTALLATION NOTES:
 PER NFPA 13 (2016) §9.3.6.5, BRANCH LINE RESTRAINTS ARE NOT REQUIRED WHERE BRANCH LINES ARE SUPPORTED BY RODS LESS THAN 6-INCHES LONG MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE.

- HANGER AND SWAY BRACING INSTALLATION NOTES:**
- INSTALLATION OF ALL HANGERS AND SWAY BRACING SHALL BE INSTALLED IN ACCORDANCE TO NFPA 13 (2016).
 - ALL HARDWARE AND METAL COMPONENTS SHALL HAVE NON-CORROSIVE PLATING OR FINISH.
 - SWAY BRACE MAXIMUM SPACING SHALL NOT EXCEED THOSE VALUES LISTED IN THE SEISMIC CALCULATIONS.
 - SCH. 40 PIPE BRACING SHALL BE LIMITED TO THOSE LENGTHS LISTED IN NFPA 13, TABLE 9.3.5.11.8(b) WITH I_w=200.
 - 1" DIA. SCH. 40 PIPE MAX. 7'-0" LENGTH.
 - 1 1/4" DIA. SCH. 40 PIPE MAX. 9'-0" LENGTH.
 - 1 1/2" DIA. SCH. 40 PIPE MAX. 10'-4" LENGTH.
 - 2" DIA. SCH. 40 PIPE MAX. 13'-1" LENGTH.
 - PER NFPA 13 (2016) §9.3.6.5) A BRANCH LINE RESTRAINT SHALL CONSIST OF A HANGER NOT LESS THAN 45° FROM VERTICAL INSTALLED WITHIN 6-INCHES OF THE VERTICAL HANGER ARRANGED FOR RESTRAINT AGAINST UPWARD MOVEMENT, PROVIDED IT IS UTILIZED SUCH THAT L_R DOES NOT EXCEED 400, WHERE THE ROD EXTENDS TO THE PIPE OR A SURGE CLIP HAS BEEN INSTALLED.
 - MAXIMUM BRANCH LINE RESTRAINT SHALL NOT EXCEED SPECIFIED DISTANCES INDICATED IN NFPA 13 (2016) TABLE 9.3.6.4(b).
 - PER NFPA 13 (2016) §9.3.6.5, BRANCH LINE RESTRAINTS ARE NOT REQUIRED WHERE BRANCH LINES ARE SUPPORTED BY RODS LESS THAN 6-INCHES LONG MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE.

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 Ren. 10-31-2019
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Project:
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 FILE NAME:

Sheet Content:
 SUB-STATION
 FIRE PROTECTION STEEL
 STRUCTURAL DETAILS

Fresno County Department of
 Public Works and Planning
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Sheet No.
F5.1

NOTES:

- WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOMINAL 2"x4" LUMBER SPACED 16" OC. STEEL STUDS TO BE MIN. 2-1/2" WIDE AND SPACED MAX. 24" OC. WHEN STEEL STUDS ARE USED AND THE DIAMETER OF OPENING EXCEEDS THE WIDTH OF STUD CAVITY, THE OPENING SHALL BE FRAMED ON ALL SIDES USING LENGTHS OF STEEL STUD INSTALLED BETWEEN THE VERTICAL STUDS AND SCREW-ATTACHED TO THE STEEL STUDS AT EACH END. THE FRAMED OPENING IN THE WALL SHALL BE 4"-6" WIDER AND 4"-6" HIGHER THAN THE DIAMETER OF THE PENETRATING ITEM SUCH THAT WHEN THE PENETRATING ITEM IS INSTALLED IN THE OPENING, A 2"-3" CLEARANCE IS PRESENT BETWEEN THE PENETRATING ITEM AND THE FRAMING ON ALL FOUR SIDES.
 - GYPSUM BOARD - 5/8" THICK, 4' WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAMETER OF OPENING IS 32-1/4" FOR STEEL STUD WALLS. MAX. DIAMETER OF OPENING IS 14-1/2" FOR WOOD STUD WALLS. THE F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE FIRE RATING OF THE WALL ASSEMBLY.
- THROUGH-PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE SHALL BE MIN. 0" TO MAX 2-1/4" PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE, CONDUIT OR TUBING MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45° FROM PERPENDICULAR. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - STEEL PIPE - NOMINAL 30"Ø (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - IRON PIPE - NOMINAL 30"Ø (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 - CONDUIT - NOMINAL 4"Ø (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR 8 IN. DIAMETER STEEL CONDUIT.
 - COPPER TUBING - NOMINAL 6"Ø (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - COPPER PIPE - NOMINAL 6"Ø (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- FILL, VOID OR CAVITY MATERIAL HILTI FS-ONE SEALANT - MIN. 5/8" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND WALL, A MIN. 1/2"Ø BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE WALL INTERFACE ON BOTH SURFACES OF WALL.

PIPE CLEARANCE NOTES:

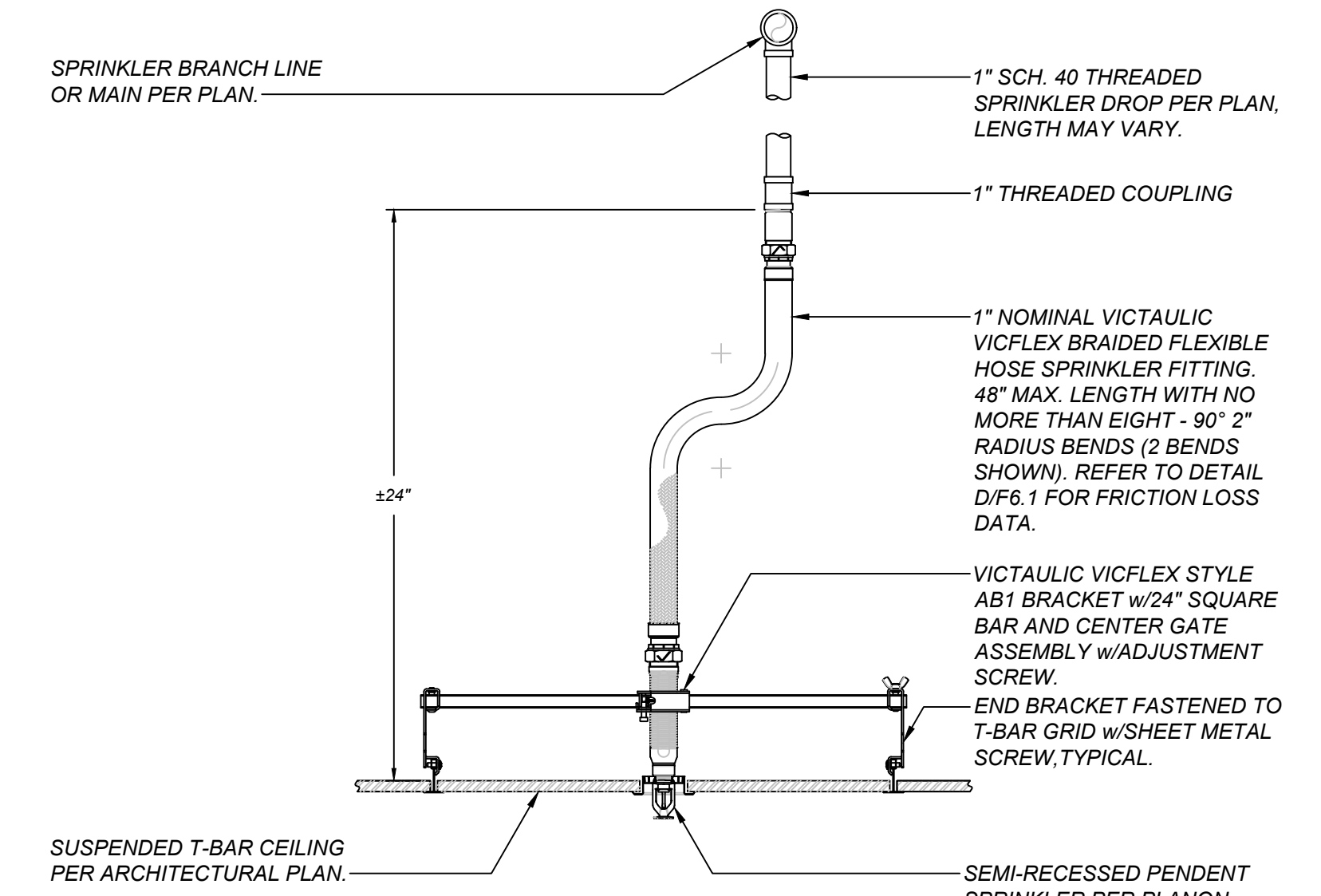
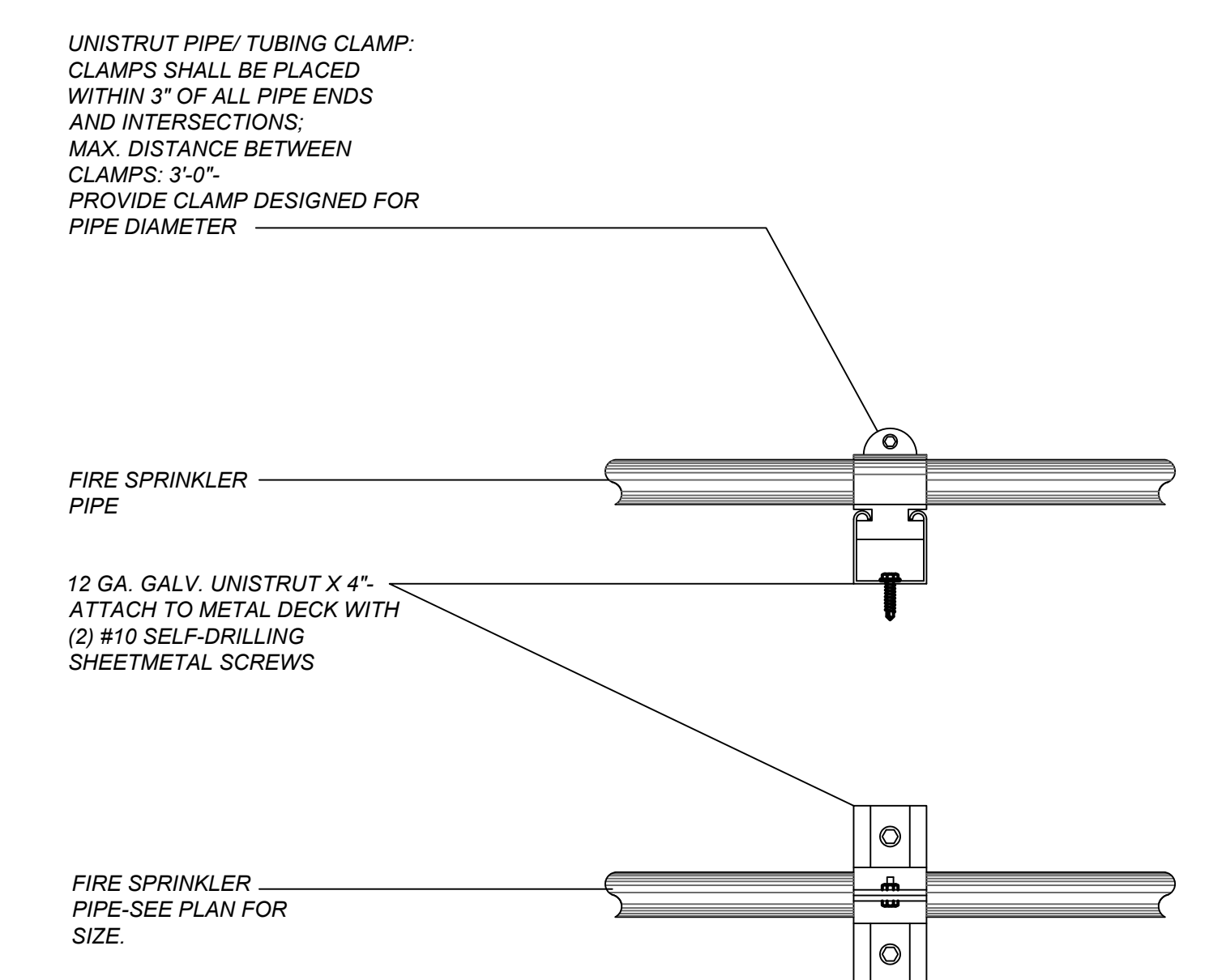
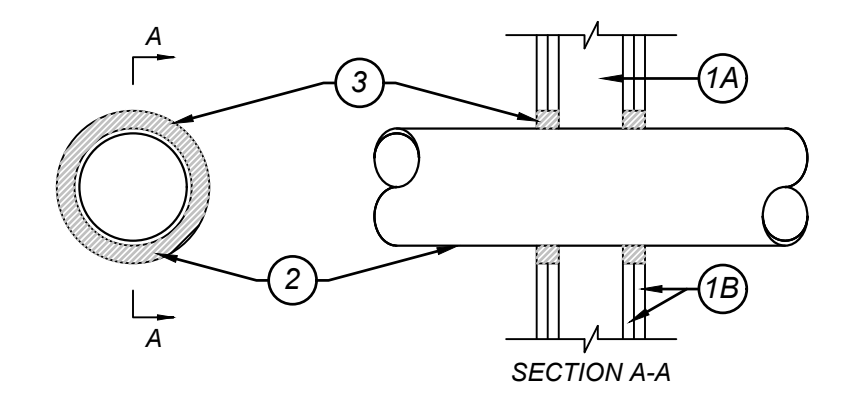
PER NFPA 13 (2016) 9.3.4.1 - CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING EXTENDING THROUGH WALLS, FLOORS, PLATFORMS, AND FOUNDATIONS, INCLUDING DRAINS, FIRE DEPARTMENT CONNECTIONS, AND OTHER AUXILIARY PIPING.

PER NFPA 13 (2016) 9.3.4.2 - WHERE PIPE PASSES THROUGH HOLES IN PLATFORMS, FOUNDATIONS, WALLS, OR FLOORS, THE HOLES SHALL BE SIZED SUCH THAT THE DIAMETER OF THE HOLES IS NOMINALLY 2" LARGER THAN THE PIPE FOR PIPE 1" NOMINAL TO 3-1/2" NOMINAL AND 4" LARGER THAN THE PIPE FOR PIPE 4" NOMINAL AND LARGER.

PER NFPA 13 (2016) 9.3.4.4 - NO CLEARANCE SHALL BE REQD FOR PIPING PASSING THROUGH GYPSUM BOARD OR EQUALLY FRANGIBLE CONSTRUCTION THAT IS NOT REQD TO HAVE A FIRE RESISTANCE RATING.

SYSTEM NO. W-L-1054

F RATINGS - 1 AND 2 HR (SEE ITEMS 1 AND 3)
 T RATING - 0 HR
 L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
 L RATING AT 400 F-4 CFM/SQ FT



VICFLEX FLEXIBLE SPRINKLER DROP w/SEMI-RECESSED PENDENT SPRINKLER
 SCALE: NONE FSSXXX F6.1

VICTAULIC VICFLEX - FRICTION LOSS DATA (UL)

LENGTH IN INCHES	OUTLET SIZE	1-90° BEND	2-90° BEND	3-90° BEND	4-90° BEND	5-90° BEND	6-90° BEND	7-90° BEND	8-90° BEND
31"	1/2"	8.5'	11.0'	13.0'	16.0'	N/A	N/A	N/A	N/A
	3/4"	10.0'	12.5'	14.0'	17.0'	N/A	N/A	N/A	N/A
36"	1/2"	13.5'	16.0'	18.0'	19.0'	N/A	N/A	N/A	N/A
	3/4"	14.0'	17.0'	19.5'	20.0'	23.0'	N/A	N/A	N/A
48"	1/2"	15.5'	17.0'	19.5'	20.0'	21.0'	22.0'	28.0'	32.0'
	3/4"	17.0'	19.0'	21.5'	24.5'	26.0'	27.0'	30.0'	37.0'
60"	1/2"	21.5'	24.0'	27.0'	28.5'	30.0'	31.0'	37.0'	42.0'
	3/4"	23.0'	24.0'	28.0'	29.5'	30.5'	31.0'	38.0'	42.0'
72"	1/2"	30.0'	32.0'	36.5'	37.5'	40.5'	41.0'	42.0'	46.0'
	3/4"	32.0'	32.5'	35.0'	35.5'	40.0'	40.5'	41.0'	46.0'

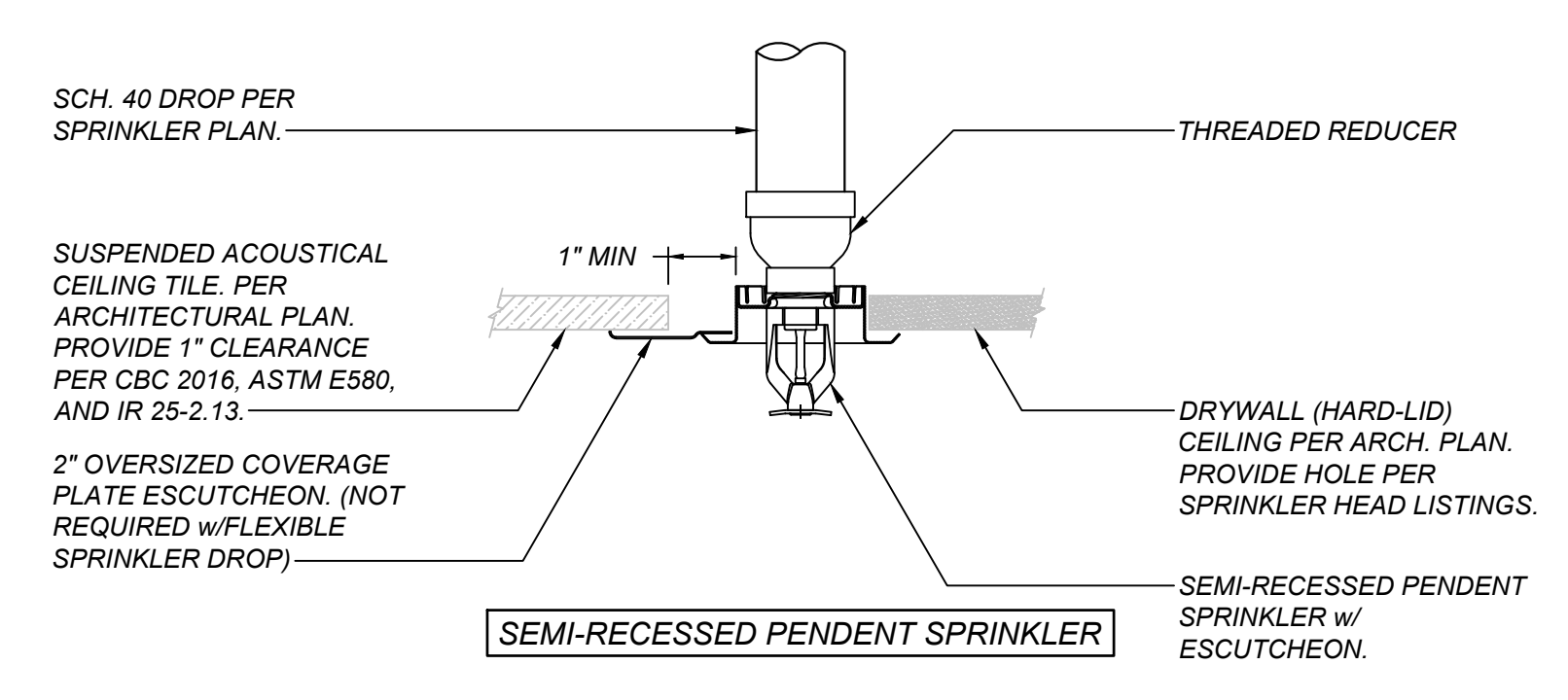
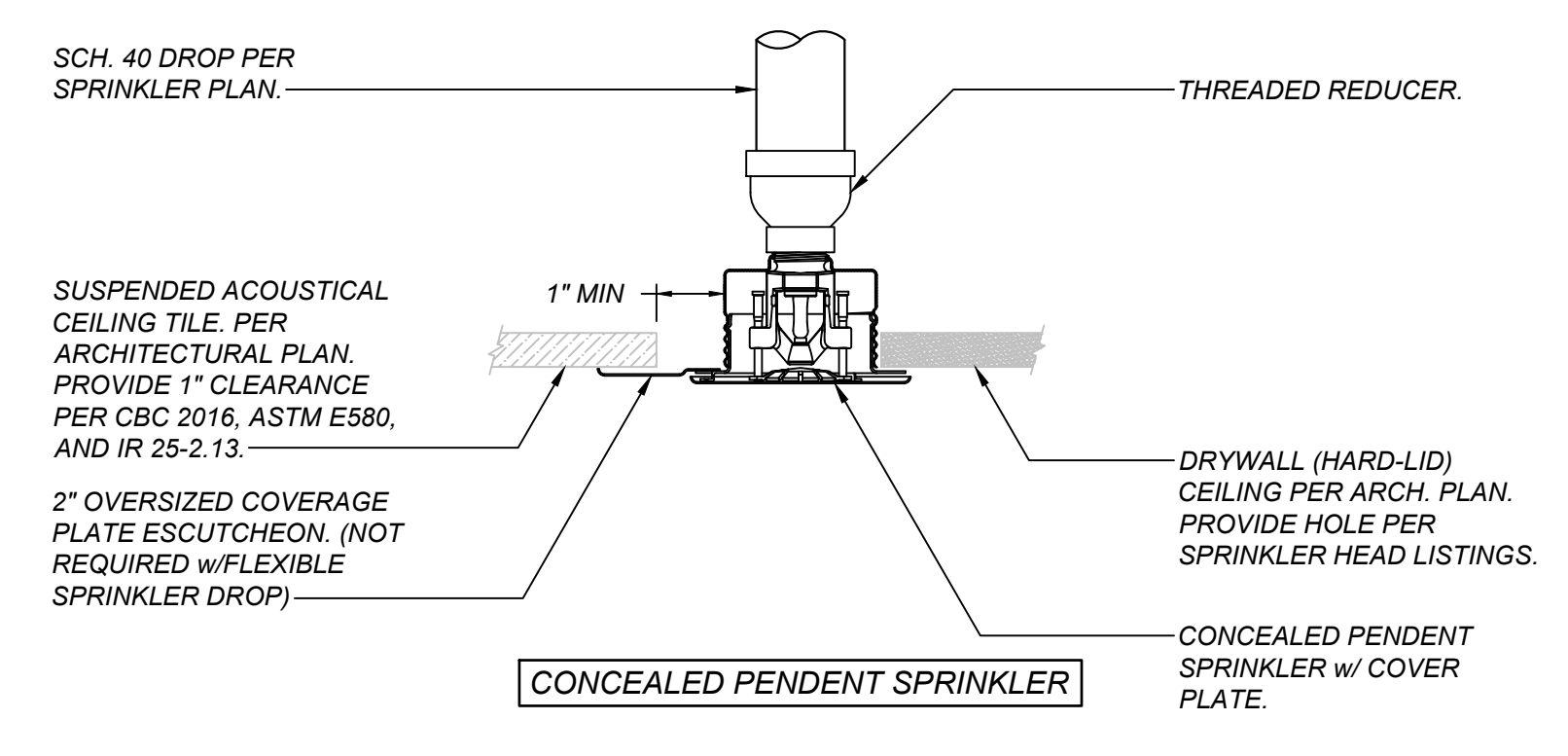
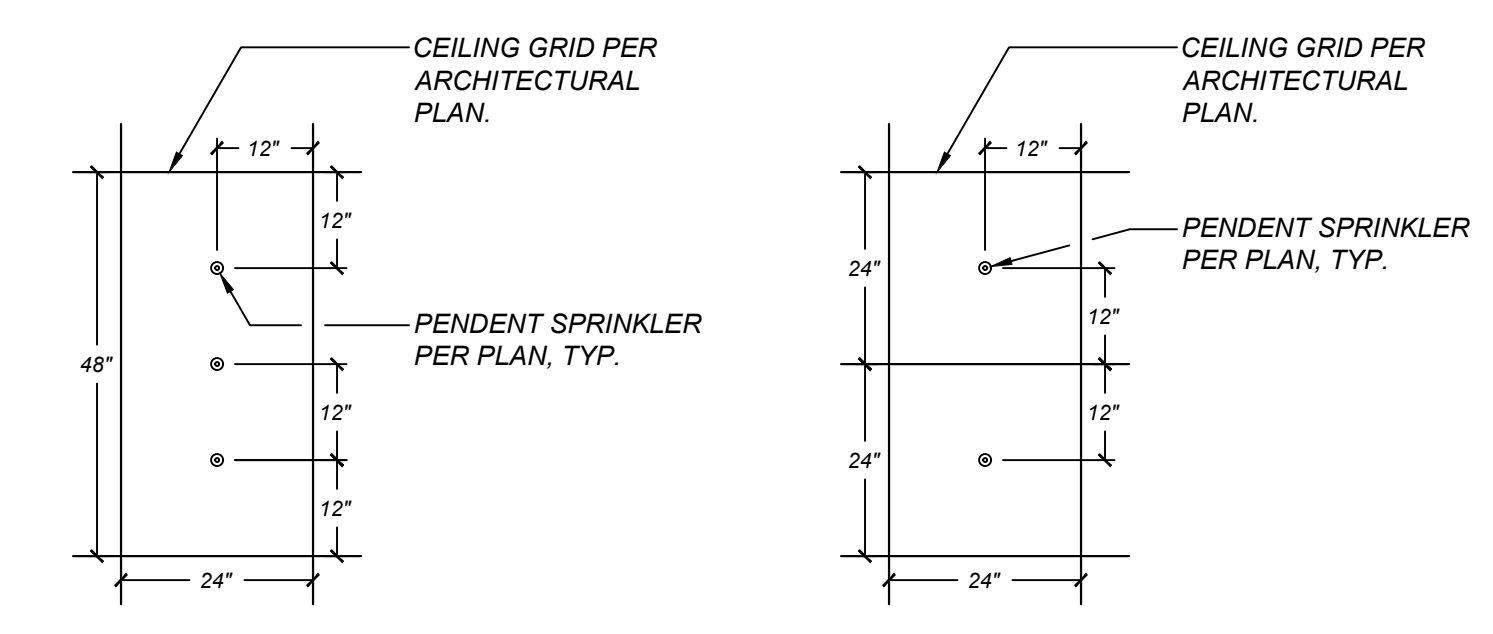
INSTALLATION NOTES:

- ALL VICTAULIC VICFLEX FLEXIBLE SPRINKLER HOSE FITTINGS AND ANCHORING COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER GUIDELINES.
- PER NFPA 13 (2016) §9.2.1.3.3.3. THE MAXIMUM UNSUPPORTED LENGTH FOR FLEXIBLE HOSE SPRINKLER FITTINGS SHALL NOT EXCEED 6-FEET.
- PER NFPA 13 (2016) §9.2.1.3.3.4. WHERE FLEXIBLE SPRINKLER HOSE FITTINGS ARE USED TO CONNECT SPRINKLERS TO BRANCH LINES IN SUSPENDED CEILINGS, A LABEL LIMITING RELOCATION OF THE SPRINKLER SHALL BE PROVIDED ON THE ANCHORING COMPONENT.

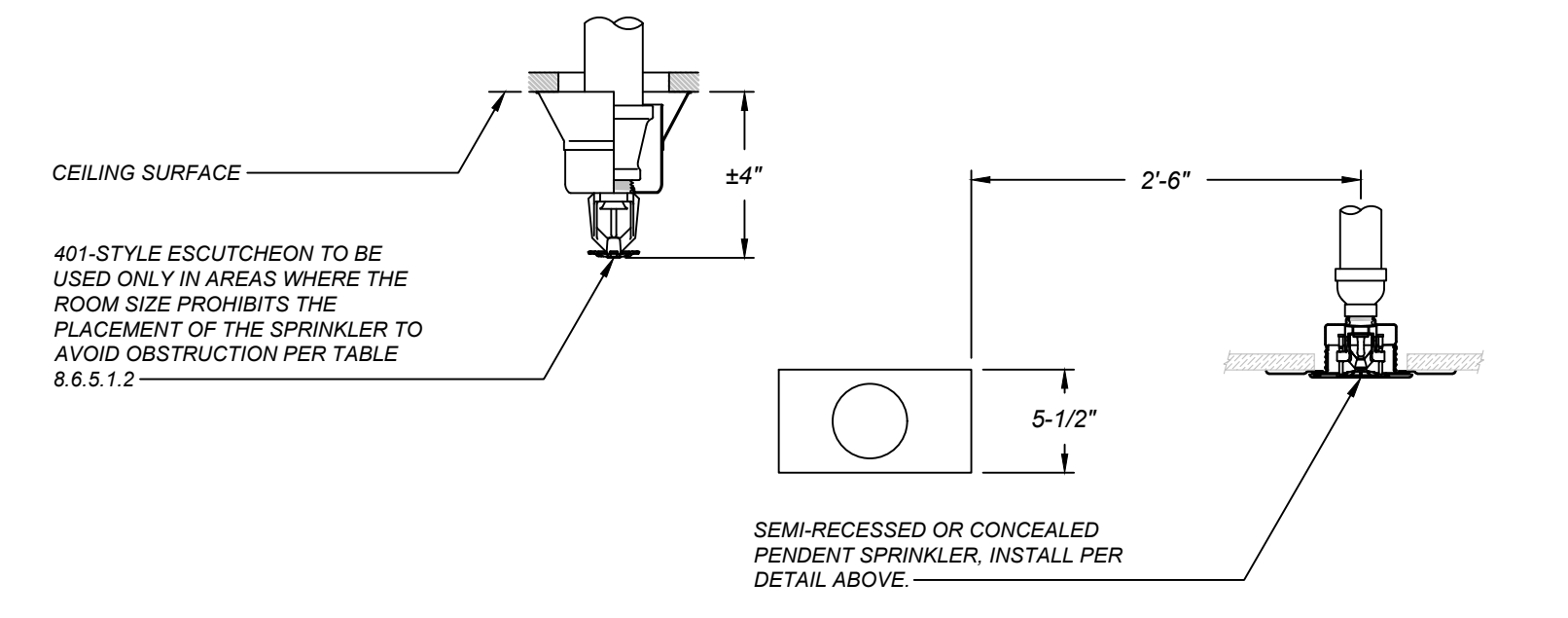
VICFLEX FLEXIBLE SPRINKLER DROP FRICTION LOSS DATA AND INSTALLATION NOTES
 SCALE: NONE FSSXXX F6.1

INSTALLATION NOTES:

- PENDENT SPRINKLER HEADS INSTALLED WITHIN SUSPENDED CEILING TILES SHALL BE POSITIONED "CENTER OF TILE" AS INDICATED PER PROJECT SPECIFICATIONS. HOWEVER, SPRINKLER SPACING SHALL NOT EXCEED THE MAXIMUM SPRINKLER SPACING PER NFPA 13 (2016) §8.6.3.1, §8.6.3.2, §8.6.3.2.4.1 §8.6.3.1, §8.6.3.2 AND FIRE SPRINKLER MANUFACTURER LISTINGS.
- PENDENT SPRINKLER HEADS INSTALLED IN DRY-WALL CEILINGS SHALL BE POSITIONED PER PLAN, ALIGNED WITH LIGHTING, AUDIO, AND OTHER CEILING FEATURES. HOWEVER, SPRINKLER SPACING SHALL NOT EXCEED MAXIMUM NFPA 13 REQUIREMENTS AND FIRE SPRINKLER MANUFACTURER LISTINGS.



THIS DETAIL IS TO BE USED FOR AVOIDING OBSTRUCTIONS PRESENTED BY SURFACE MOUNTED LIGHTING IN GYPBOARD CEILINGS. SPRINKLER SPACING TO BE IN ACCORDANCE WITH NFPA 13 (2016) FOR PARTICULAR HAZARD, AND TYPE OF SPRINKLER WHERE OBSTRUCTION OCCURS. DETAIL AS SHOWN IS FOR STANDARD SPRAY PENDENT SPRINKLER, WITH PRESSURES FROM 15 PSI TO 100 PSI ONLY. IF EXTENDED COVERAGE OR SPECIAL LISTED SPRINKLERS ARE USED, REFER TO APPROPRIATE NFPA 13 (2016) TABLE FOR THE SPECIFIC REQUIREMENTS FOR EACH SPECIFIC TYPE OF SPRINKLER.



NFPA 13 (2016) TABLE 8.6.5.1.2 POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTIONS TO DISCHARGE

DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION	MAX. ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION
2' TO LESS THAN 2'-6"	5'-12"

COORDINATE ALL CONCEALED PENDENT SPRINKLERS W/ CURRENT LIGHT LAYOUT AND TYPES. IN AREAS W/ SURFACE MOUNTED LIGHT FIXTURES, UTILIZE OBSTRUCTION SPACING PER NFPA 13 (2016). IF SIZE OF ROOM PROHIBITS SPACING REQUIREMENTS TO BE MET, UTILIZE ST-1E 40- ESCUTCHEON W/ PENDENT SPRINKLER OF SAME TEMPERATURE, K-FACTOR, AND DESIGN CRITERIA.



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PROJECT: Sheriff Area 2 Sub-Station
 1122 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04-.05, and -.06
 ISSUE DATE: 10.10.2019
 PROJECT NO: T80293 / 19003
 FILE NAME:

Sheet Content:
 SUB-STATION FIRE PROTECTION INSTALLATION DETAILS

Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No. **F6.1**

14 May 2020 3:32 PM P:\2019\19280 Fresno County Sheriff Area 2 Substation\4-Drawing\6 F\OFFICE\F6.1 - INSTALL DETAIL.dwg Benjamin

AS-GRADE PLANS, FINAL SOILS REPORT (IF APPLICABLE) AND COMPACTION REPORTS ARE REQUIRED TO BE SUBMITTED AND APPROVED PRIOR TO RECEIVING A "FINAL" "AS-GRADE" REVIEW. TIME WILL TAKE APPROXIMATELY ONE WEEK. YOU MAY REQUEST "OVERLAP" PLAN REVIEW FOR AN ADDITIONAL FEE. A "SAFE-TO-OCCUPY" CAN BE GRANTED BUT WILL REQUIRE A \$15,000.00 CASH DEPOSIT. THE DEPOSIT WILL BE FULLY REFUNDED ONCE THE "AS-GRADE" HAS BEEN APPROVED AND ALL OTHER HOLDS HAVE BEEN CLEARED FOR THE ENTIRE PROJECT. DEPOSITS ARE TYPICALLY REFUNDED FROM THE FINANCE DEPARTMENT IN THE FORM OF A CHECK APPROXIMATELY 1 WEEK AFTER THE REFUND IS REQUESTED. THERE WILL BE A ONE-TIME \$60.00 HANDLING FEE FOR THE "SAFE-TO-OCCUPY" TRANSACTION SHOULD IT BE REQUESTED.

PAVEMENT SECTION:

HEAVY TRUCK SECTION
 3" AC/ 6.5" AB/ 8" ASB/ 6" C.N.S.
ALL OTHER AREAS
 2" AC/ 8" AB/ 6" C.N.S.

* INDICATES 95% RELATIVE COMPACTION
 ** INDICATES 90% RELATIVE COMPACTION

NOTES:

- ALL GRADING SHALL COMPLY WITH APPENDIX J OF THE 2016 CALIFORNIA BUILDING CODE AND THE PROJECT GEOTECHNICAL REPORTS, WHICHEVER IS MORE STRINGENT.
- COMPACTION REPORTS PREPARED BY AN APPROVED TESTING AGENCY SHALL BE PROVIDED FOR ALL LOOSE FILLS.
- PROVIDE TWO PERCENT DRAINAGE AWAY FROM BUILDING PAD FOR TEN FEET MINIMUM.
- NO DRAINAGE IS TO BE ONTO ADJACENT PROPERTY.
- THIS DRAINAGE PLAN SHALL NOT HAVE AN ADVERSE EFFECT ON ADJACENT PROPERTY.
- ANY CHANGES TO THESE PLANS MUST BE APPROVED BY THE DEVELOPMENT DEPARTMENT.
- PROVIDE THE CITY WITH "AS GRADED" PLANS. PLANS ARE REQUIRED PRIOR TO THE ISSUANCE OF THE BUILDING FINAL.
- ANY VERTICAL CUT OR FILL DIFFERENTIAL EQUAL TO OR GREATER THAN 12" BETWEEN ADJACENT PROPERTIES SHALL BE SUPPORTED BY AN APPROVED RETAINING WALL. DIFFERENTIALS LESS THAN 12" TO HAVE A MAXIMUM SLOPE OF 1 VERTICAL TO 2 HORIZONTAL.
- ALL SIDE AND REAR LOT DRAINAGE SWALES ARE TO BE COMPLETED PRIOR TO BUILDING FINAL.
- ALL FILLS USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER, AND THE PLACEMENT OF FILL SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER OR HIS QUALIFIED REPRESENTATIVE. A SOIL INVESTIGATION REPORT AND A REPORT OF SATISFACTORY PLACEMENT OF FILL, BOTH ACCEPTABLE TO THE BUILDING OFFICIAL SHALL BE SUBMITTED (2016 CALIFORNIA BUILDING CODE)
- THE OVERALL BUILDING SITE SHALL HAVE A MINIMUM SLOPE OF 1.0% IN ALL AREAS TO AN APPROVED DRAINAGE FACILITY OR A PUBLIC STREET.
- ALL REQUIRED WALLS AND RETAINING WALLS REQUIRE SEPARATE BUILDING PERMITS IN ADDITION TO THE GRADING PERMIT.
- PERMITS FOR ALL REQUIRED WALLS SHALL BE OBTAINED PRIOR TO APPROVAL OF THE AS-GRADED PLANS. PERMITS FOR RETAINING WALLS SHALL BE OBTAINED WITHIN 30 DAYS OF GRADING PERMIT ISSUANCE.
- NO PERMANENT ON-SITE WATER RETENTION IS ALLOWED.
- ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DRY DENSITY OF THE SOIL ACCORDING TO ASTM STANDARD D1557.
- THIS GRADING PLAN IS FOR APPROVAL OF ON-SITE ELEVATIONS ONLY. THE ELEVATIONS SHOWN WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRE SEPARATE PUBLIC WORKS DEPARTMENT APPROVAL & PERMIT. ANY NOTES THAT APPLY TO THE PUBLIC RIGHT-OF-WAY ARE FOR REFERENCE ONLY. IF ON-SITE ELEVATIONS SHOWN DO NOT CONFORM WITH APPROVED STREET PLANS, AN APPROVED AMENDMENT IS REQUIRED.
- THE CONTRACTOR SHALL MAKE PROVISIONS FOR DUST AND EROSION CONTROL 24 HOURS A DAY, 7 DAYS A WEEK UNTIL PROJECT IS FINAL.
- ANY PERSON, CONTRACTOR, OR SUBCONTRACTOR PLANNING TO CONDUCT ANY EXCAVATION SHALL CONTACT USA NORTH AT 811 AT LEAST TWO (2) WORKING DAYS, BUT NO MORE THAN 14 CALENDAR DAY PRIOR TO COMMENCING EXCAVATION.
- RECOMMENDATIONS AS OUTLINED IN THE PRELIMINARY SOILS REPORT BY TECHNICON, REPORT NO. 150348.001, DATED JUNE 9, 2015 SHALL BECOME REQUIREMENTS FOR THIS DEVELOPMENT.

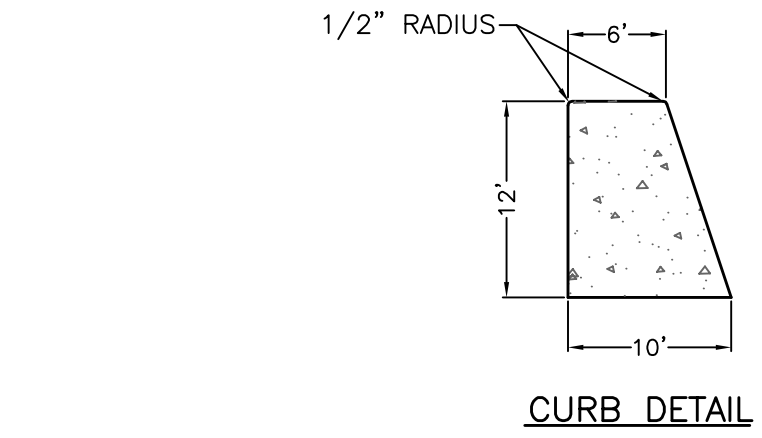
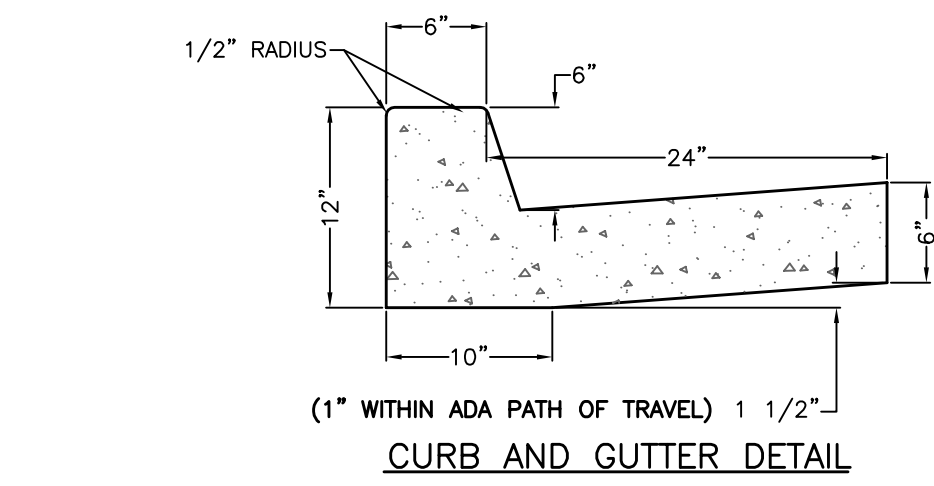
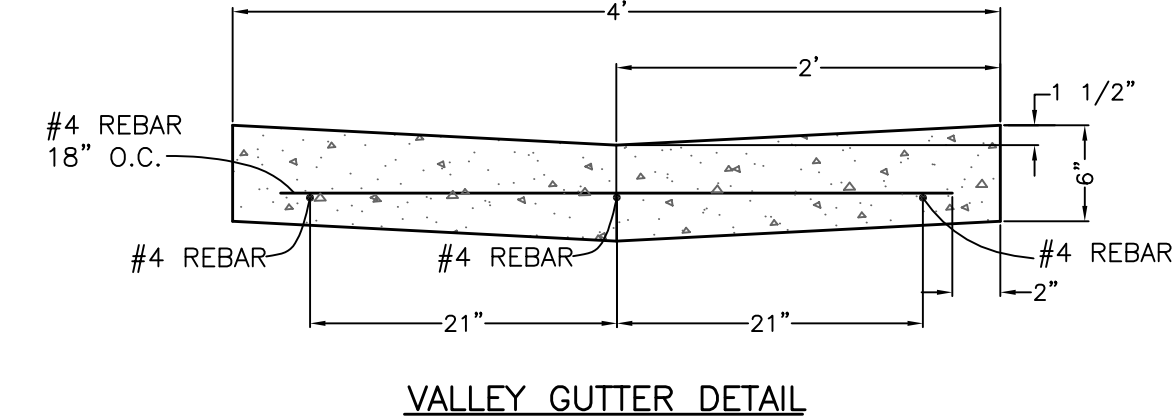
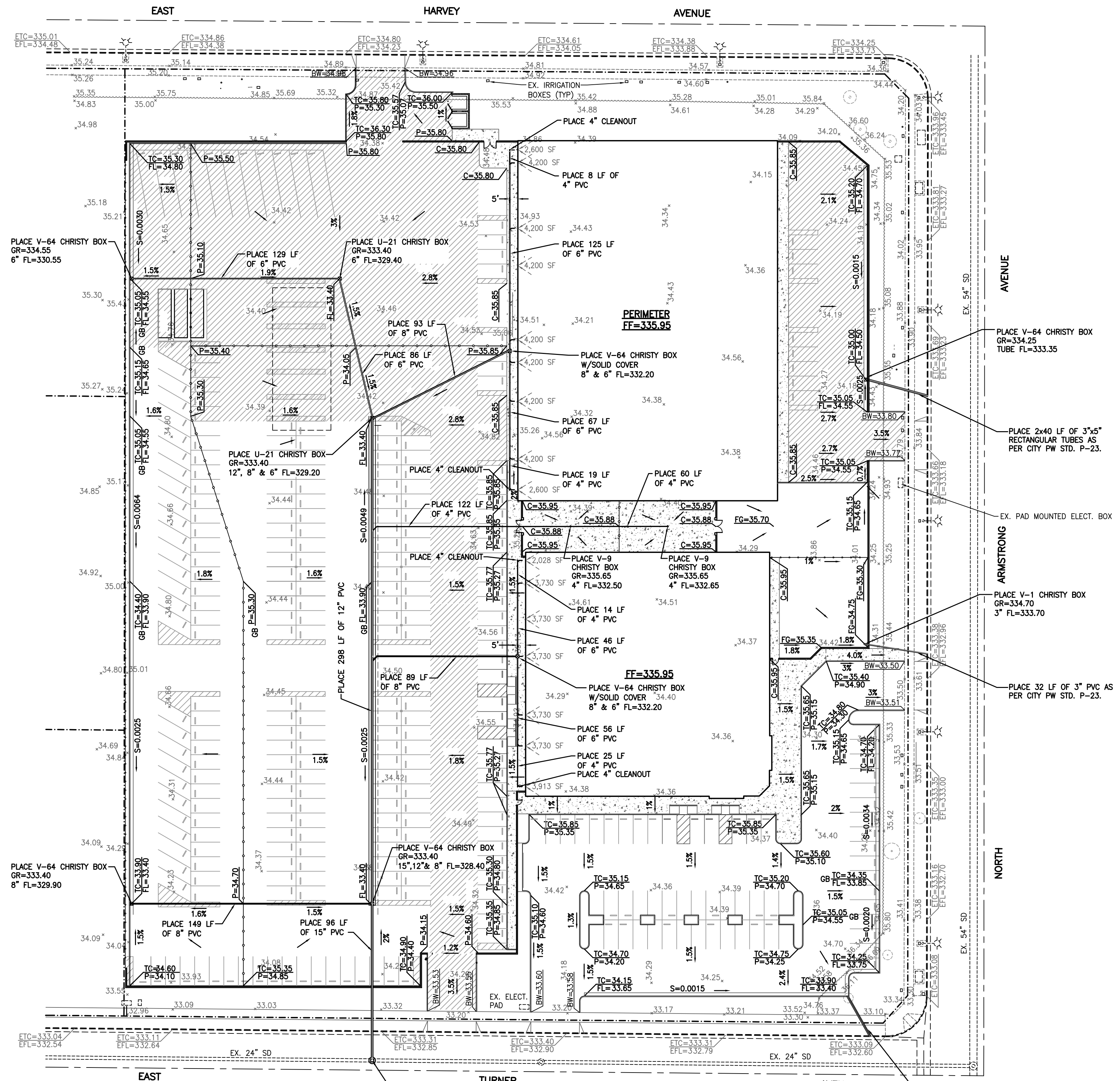
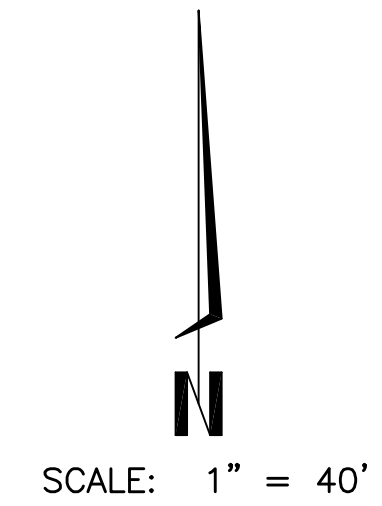
BENCHMARK:

COUNTY BM KL 11 - BRASS CAP, SOUTH SIDE OF BELMONT, 110' WEST OF ARMSTRONG, 3' EAST OF TELEPHONE POLE.
 ELEVATION = 334.011 U.S.G.S. DATUM

NOTE: ADD 300 TO ALL 4-DIGIT ELEVATIONS FOR U.S.G.S. DATUM

LEGEND:

- C PROPOSED CONCRETE ELEVATION
- 60.40 EXISTING GROUND ELEVATION
- ETC EXISTING TOP OF CURB ELEVATION
- EFL EXISTING GUTTER FLOW ELEVATION
- FG PROPOSED FINISH GRADE ELEVATION
- FL PROPOSED FLOWLINE ELEVATION
- GB GRADE BREAK
- P PROPOSED PAVEMENT ELEVATION
- S SLOPE
- TC PROPOSED TOP OF CURB ELEVATION
- - - - - EXISTING PROPERTY LINE
- - - - - EXISTING CURB & GUTTER TO REMAIN
- ===== PROPOSED 6" CURB
- ===== PROPOSED CURB & GUTTER
- PROPOSED PAVEMENT RIDGE LINE
- ////// HEAVY TRUCK SECTION AREA



QUANTITIES (FOR PERMIT PURPOSES ONLY)

EXCAVATION = 1,000 C.Y.
 EMBANKMENT = 5,500 C.Y.

GRADING PLAN
1129 NORTH ARMSTRONG AVENUE
 APN 310-133-04, 05 & 06

ENGINEER:

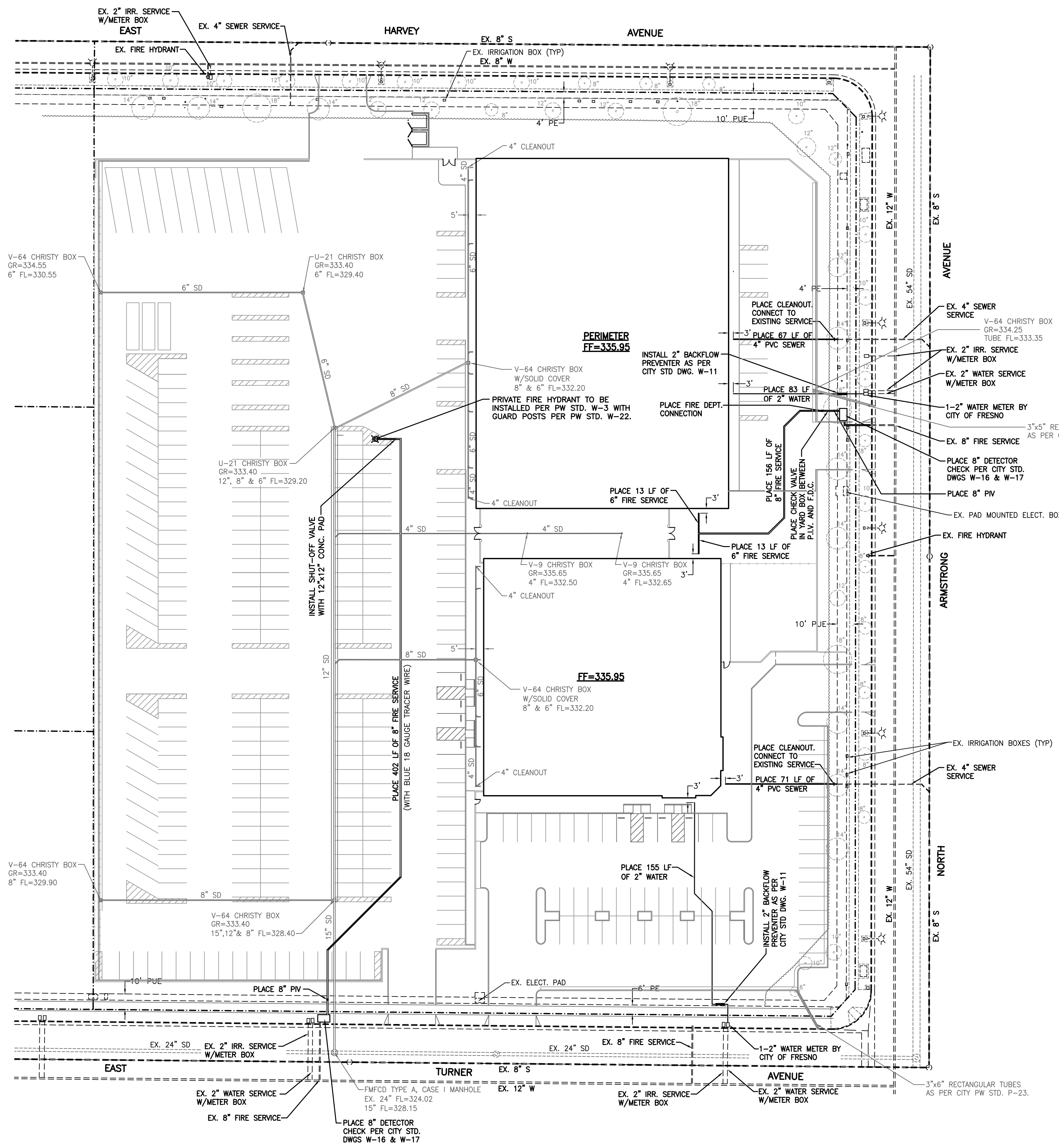
BRET GIANNETTA R.C.E. 56567 DATE

FRESNO METROPOLITAN FLOOD CONTROL DISTRICT: DATE

F.M.F.C.D. APPROVAL IS LIMITED TO:

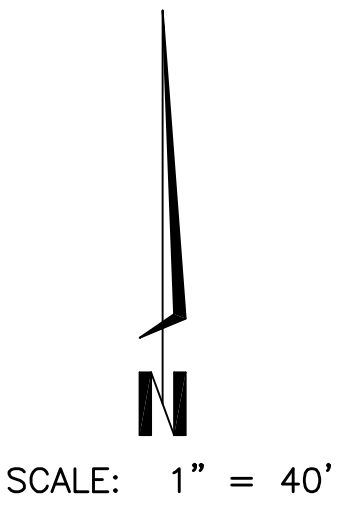
- ONSITE DRAINAGE AREA BOUNDARIES
- LOCATION OF DRAINAGE ENTRY INTO PUBLIC STREETS

GARY G. GIANNETTA
 CIVIL ENGINEERING & LAND SURVEYING
 1119 78TH STREET
 FRESNO, CA 93721
 (559) 264-3590



- NOTES:**
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE AND CALIFORNIA PLUMBING CODE.
 - CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY THE CITY OF FRESNO.
 - SEWER PIPE SHALL BE SDR 135 UNLESS OTHERWISE NOTED.
 - WATER PIPE SHALL BE:
 - SMALLER THAN 4" - PVC SCHEDULE 40
 - LARGER THAN 4" - PVC C-900
 - 4" - PVC SCHEDULE 80 OR PVC C-900
 - ALL ONSITE WATER 4" AND LARGER IN DIAMETER SHALL BE CHLORINATED AND TESTED BY AN APPROVED AGENCY AND THE RESULTS SUBMITTED TO THE CITY OF FRESNO DEVELOPMENT PLUMBING SECTION (AWWA C-601).
 - THE CONTRACTOR SHALL UNCOVER ALL EXISTING UTILITIES BEING CONNECTED INTO TO VERIFY THEIR LOCATION PRIOR TO THE CONSTRUCTION OF NEW UTILITIES. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES, SUCH AS BUT NOT LIMITED TO SEWER, GAS, TELEPHONE, ELECTRICAL, AND STRUCTURES, PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - THRUST BLOCKS SHALL BE USED FOR RUBBER GASKET JOINT WATER.
 - SLOPES OF ON-SITE SEWER MAINS (6" AND SMALLER) SHALL BE NOT LESS THAN 1/4" INCH PER FOOT TOWARD THE POINT OF DISPOSAL.
 - A STREET WORK PERMIT IS REQUIRED TO INSTALL DETECTOR CHECKS IN THE PUBLIC RIGHT OF WAY. CONTACT PUBLIC WORKS, 4TH FLOOR, CITY HALL, 2600 FRESNO STREET.
 - PRESSURE TESTING OF FIRE SERVICE UNDERGROUND PIPING SHALL BE DONE AGAINST A BLANK TEST FLANGE AS REQUIRED BY THE CITY OF FRESNO WATER DIVISION.
 - FIRE HYDRANTS SHALL BE INSTALLED PER PUBLIC WORKS STANDARD W-3.
 - MULTIPLE RP DEVICES SERVING A SITE SHALL HAVE PERMANENT METAL TAGS WITH AN ADDRESS FOR EACH BUILDING SERVED.
 - THE RP DEVICES SHALL BE TESTED AND APPROVED BY A CERTIFIED AIIWA OR ABPA TESTER WITHIN FIVE DAYS OF INSTALLATION. THIS PROPERTY WILL NOT BE GIVEN OCCUPANCY UNTIL THE LEAD-FREE RP DEVICES ARE TESTED AND DOCUMENTED WITH THE CITY OF FRESNO WATER DIVISION. A LIST OF CERTIFIED TESTERS CAN BE OBTAINED BY CALLING 559-621-5335. TEST RESULTS CAN BE SUBMITTED TO THE CITY OF FRESNO'S WEB SITE AT: www.fresno.gov/Government/DepartmentDirectory/PublicUtilities/Watermanagement/Conservation/backflow OR BY FAX AT 559-498-1533.
 - THE ABOVE GROUND TRANSITION TO THE FIRE SPRINKLER FLANGE SHALL BE DUCTILE IRON OR UL/FM LISTED TRANSITION PIECE AND SHALL BE INSTALLED BY THE C-16 FIRE SPRINKLER CONTRACTOR.
 - ALL BURIED FIRE SERVICES SHALL BE INSTALLED PER NFPA 13, 2019 EDITION, WITH 36" MINIMUM COVER TO THE TOP OF THE PIPE.
 - ALL TESTING AGAINST THE DETECTOR CHECK IS PROHIBITED. PROVIDE BLIND FLANGES OR TEMPORARY CAPS FOR TESTING PURPOSES.
 - ALL BURIED SERVICES SHALL BE TESTED AT 200 PSI FOR TWO HOURS. ALL BURIED FIRE SERVICE PIPING SHALL BE SCH 80 PVC FOR LESS THAN 4" DIAMETER AND C900 DR18 FOR 4" TO 12" DIAMETER PIPES.
 - A STREET WORK PERMIT IS REQUIRED FOR THE INSTALLATION OF THE DETECTOR CHECK, WHENEVER IT IS LOCATED WITHIN THE PUBLIC RIGHT OF WAY.

BENCHMARK:
 COUNTY BM KL 11 - BRASS CAP, SOUTH SIDE OF BELMONT, 110' WEST OF ARMSTRONG, 3' EAST OF TELEPHONE POLE.
 ELEVATION = 334.011 U.S.G.S. DATUM
 NOTE: ADD 300 TO ALL 4-DIGIT ELEVATIONS FOR U.S.G.S. DATUM



LEGEND:

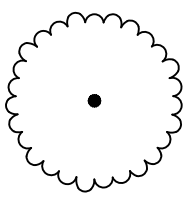
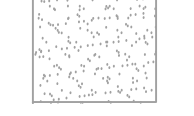

EFL	EXISTING PIPE FLOW ELEVATION
EX. FH	EXISTING FIRE HYDRANT
FL	PROPOSED PIPE FLOW ELEVATION
FS	FIRE SERVICE
S	SLOPE
-EX-12" W-	EXISTING WATER LINE
- - - - -	PROPOSED WATER LINE
-EX-8" S-	EXISTING SEWER LINE
- - - - -	PROPOSED SEWER LINE
- - - - -	PROPERTY LINE
- - - - -	PROPOSED STORM DRAIN (SEE GRADING PLAN)

UTILITY PLAN
1129 NORTH ARMSTRONG AVENUE
 APN 313-130-04, 05 & 06

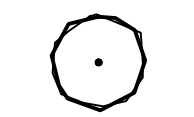

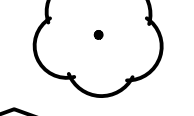


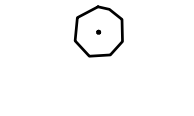

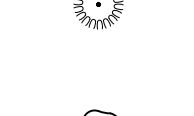


ENGINEER:
 BRETT GIANNETTA R.C.E. 56567 DATE

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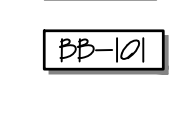

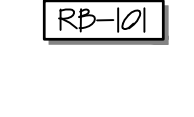
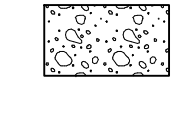

EXISTING PLANT SCHEDULE

	EXISTING TREE CEDRUS DEODARA / DEODAR CEDAR PISTACIA CHINENSIS / CHINESE PISTACHE PLATANUS X ACERIFOLIA / LONDON PLANE TREE	45	
	EXISTING TURF	17,557 SF	
	EXISTING SHRUBS LIGUSTRUM JAPONICUM / JAPANESE PRIVET	3,379 SF	

PLANT SCHEDULE

TREES	BOTANICAL / COMMON NAME	CONT.	WATER USE	QTY.
	ARJUTUS X MARINA ARJUTUS STANDARD	15 GAL	L	29
	PISTACIA CHINENSIS CHINESE PISTACHE	15 GAL	L	16
	PLATANUS X ACERIFOLIA LONDON PLANE TREE	15 GAL	M	1
	QUERCUS ILEX HULLY OAK	15 GAL	L	30
	QUERCUS LOPATA VALLEY OAK	15 GAL	L	1
SHRUBS	BOTANICAL / COMMON NAME	SIZE	WATER USE	QTY.
	COTONEASTER DAMMERI 'LOWFAST' LOWFAST BEARBERRY COTONEASTER	1 GAL	L	212
	LIGUSTRUM JAPONICUM JAPANESE PRIVET	5 GAL	L	40
	MULLENBERGIA RIGENS DEER GRASS	1 GAL	L	276
	OLEA EUROPAEA 'LITTLE OLIVE' TM LITTLE OLIVE	5 GAL	L	166
	SANTOLINA CHAMAECYPARISSIS 'COMPACTA' LAVENDER COTTON	1 GAL	L	42

REFERENCE NOTES SCHEDULE

SYMBOL	BORDER BOARD DESCRIPTION	QTY.	
	ROCK MULCH EDGE COMPOSITE WOOD BORDER 2" X 4" BROWN	186 LF	
SYMBOL	CONCRETE DESCRIPTION	QTY.	CONC. THICKNESS
	6" CONCRETE MOW STRIP NATURAL, BROOM FINISH	147 LF	6"
SYMBOL	ROOT BARRIER DESCRIPTION	QTY.	
	LINEAR ROOT BARRIER, TYP. 24" X 10' LONG, CENTERED ON TREE TRUNK WHEN TREE IS WITHIN 5' OF ANY HARDSCAPE.	710 LF	
SYMBOL	SOIL DESCRIPTION	QTY.	SIZE
	GRAVEL, 3/4 INCH CALIFORNIA GOLD 3" DEPTH	1028 CY	3/4"
SYMBOL	MULCH DESCRIPTION	QTY.	
	MULCH-WALK ON DARK 3" DEPTH	18787 CY	

GENERAL NOTES

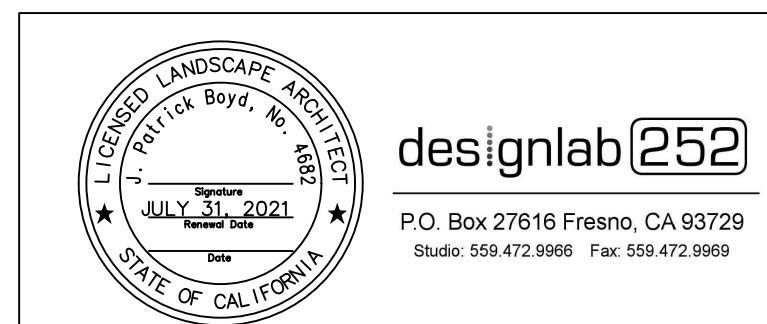
- EXISTING UTILITIES - INFORMATION ON THE DRAWINGS RELATING TO EXISTING UTILITY LINES AND SERVICES IS FROM THE BEST SOURCES AVAILABLE. ALL SUCH INFORMATION IS FURNISHED FOR INFORMATION ONLY AND IS NOT GUARANTEED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
 - CALL UTILITY LOCATING SERVICE FOR PRECISE UTILITY LOCATIONS BEFORE BEGINNING ANY WORK. UNDERGROUND SERVICE ALERT: (800) 227-2600.
- EXISTING CONDITIONS.
 - PROTECTION OF EXISTING TREES: CONSTRUCT FOUR (4) FOOT HIGH ORANGE CONSTRUCTION FENCE OR OTHER APPROVED PROTECTIVE FENCING AROUND THE TREE. CONTACT THE OWNER/OWNER'S REPRESENTATIVE FOR LOCATION OF THE FENCE IF NOT SHOWN ON THE PLAN. DO NOT ENTER OR PLACE OBJECTS WITHIN THE FENCED AREA. PLACE A THREE (3) INCH LAYER OF WOOD MULCH WITHIN THE FENCED AREA BUT KEEP MULCH OFF OF TRUNK. CONTRACTOR SHALL MAINTAIN FENCED AREA CLEAR OF OBJECTS AT ALL TIMES.
 - WHEN IT IS NECESSARY TO EXCAVATE OR TRENCH ADJACENT TO EXISTING TREES, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATION IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR SHALL BE DONE BY HAND. ALL ROOTS TWO (2) INCH AND LARGER IN DIAMETER EXCEPT DIRECTLY IN THE PATH OF PIPE OR CONDUIT, SHALL BE TUNNELED UNDER AND SHALL BE HEAVILY WRAPPED WITH BURLAP TO PREVENT SCARRING OR EXCESSIVE DRYING. WHERE A TRENCHING MACHINE IS RUN CLOSEST TO TREES HAVING ROOTS SMALLER THAN TWO (2) INCHES IN DIAMETER, THE WALL OF THE TRENCH ADJACENT TO THE TREE SHALL BE HAND TRIMMED, MAKING CLEAN CUTS THROUGH. ROOTS ONE (1) AND LARGER IN DIAMETER SHALL BE PAINTED WITH TWO COATS OF TREE SEAL, OR EQUAL. TRENCHES ADJACENT TO TREE SHALL BE CLOSED WITH TWENTY-FOUR (24) HOURS, AND WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE SHALL BE KEPT SHARP WITH BURLAP OR CANVAS.
 - PRIOR TO BID, CONTRACTOR SHALL VERIFY EXISTING IRRIGATION CONTROLLER, WATER METER AND BACKFLOW PREVENTER LOCATIONS. CONTRACTOR SHALL VERIFY EXISTING IRRIGATION STATIONS AT ADJACENT WORK AREA AND DETERMINE VALVES CONTROLLING HEADS INDICATED FOR CONNECTION TO EXISTING SYSTEM. CONTRACTOR SHALL VERIFY VALVE SIZE AND EXISTING GPM FLOW PRIOR TO ADDING NEW HEADS. ALSO, SPACING AND COVERAGE SHALL BE VERIFIED AND NECESSARY PROVISIONS IN BID MAKE FOR REQUIRED ADJUSTMENTS AND MODIFICATIONS TO ACHIEVE PROPER COVERAGE.
- CONTRACTOR SHALL FURNISH A LIST AND CUT SHEETS OF THE MATERIALS PROPOSED FOR THE PROJECT TO THE OWNER/OWNER'S REPRESENTATIVE FOR APPROVAL. CONSTRUCTION SHALL NOT BEGIN UNTIL MATERIALS ARE APPROVED.
- INSPECTION SCHEDULE.
 - THE FOLLOWING INSPECTIONS SHALL BE PERFORMED BY THE OWNER/OWNER'S REPRESENTATIVE DURING CONSTRUCTION. OWNER/OWNER'S REPRESENTATIVE SHALL CONTACT LANDSCAPE ARCHITECT FOR INSPECTION REQUIREMENTS, IF INSPECTIONS REQUIRE THE PRESENCE OF THE LANDSCAPE ARCHITECT, LANDSCAPE ARCHITECT MUST BE NOTIFIED A MINIMUM OF 4 DAYS PRIOR TO SCHEDULED INSPECTION DATE.
 - PRESSURE TESTING OF IRRIGATION MAINLINE-OPEN TRENCH.
 - FINAL IRRIGATION INSPECTION-CONFIRMATION OF IRRIGATION EQUIPMENT PLACEMENT AND FULL IRRIGATION COVERAGE.
 - INSPECTION OF PLANT MATERIALS ON SITE BEFORE INSTALLATION.
 - FINAL CONSTRUCTION INSPECTION PRIOR TO COMMENCEMENT OF WARRANTY PERIOD.
 - FINAL PROJECT ACCEPTANCE AT THE END OF WARRANTY PERIOD.
- CLEAN UP ON A DAILY BASIS PER OWNER/OWNER'S REPRESENTATIVE'S APPROVAL.

PROJECT WARRANTY PERIOD

- PROJECT WARRANTY PERIOD SHALL BEGIN AFTER PROJECT IS COMPLETE AND APPROVED DURING THE FINAL CONSTRUCTION INSPECTION. PROJECT WARRANTY PERIOD SHALL BE 30 DAYS.
- DURING PROJECT WARRANTY PERIOD, THE PROJECT SHALL BE INSPECTED WEEKLY AND THE FOLLOWING SHALL BE REQUIRED:
 - KEEP PLANT BASINS WELL FORMED.
 - PLANTS THAT SHOW SIGNS OF FAILURE TO GROW AT ANY TIME OR WHICH ARE SO INJURED OR DAMAGED AS TO RENDER THEM UNSUITABLE FOR THE PURPOSE INTENDED, MUST BE REMOVED, AND REPLANTED. REPLACEMENT PLANTING MUST COMPLY WITH THE ORIGINAL PLANTING SPECIFICATIONS, SIZES AND SPACING DESCRIBED FOR THE PLANTS BEING REPLACED.
 - STAKE, TIE AND TRAIN VINES ADJACENT TO WALLS AND FENCES.
 - CONTROL RODENTS AND INSECTS AS NEEDED.
 - CONTROL WEEDS AS NEEDED. CONTROL OF WEEDS SHALL BE REQUIRED BEFORE THE WEEDS REACH THE SEED STAGE OF GROWTH OR EXCEED 4 INCHES IN LENGTH, WHICHEVER OCCURS FIRST.
 - CONTROL WEEDS BY HAND-PULLING WITHIN AN AREA 2 FEET IN DIAMETER CENTERED AT EACH PLANT LOCATION. ALL OTHER LOCATIONS MAY BE CONTROLLED BY HERBICIDE.
 - REMOVE ALL TRASH AND DEBRIS.
 - IRRIGATE USING IRRIGATION CONTROLLER SET ON ET SCHEDULE.
- PERFORM FINAL INSPECTION OF THE PROJECT WARRANTY PERIOD IN THE PRESENCE OF THE OWNER/OWNER'S REPRESENTATIVE 20 TO 30 DAYS BEFORE THE CONTRACT ENDS. FINAL CONTRACT APPROVAL WILL NOT TAKE PLACE UNTIL THE FOLLOWING HAS OCCURRED:
 - REPLACE ANY DEAD OR DAMAGED PLANT MATERIAL. REPLACEMENT PLANTING MUST COMPLY WITH THE ORIGINAL PLANTING SPECIFICATIONS, SIZES AND SPACING DESCRIBED FOR THE PLANTS BEING REPLACED.
 - CONFIRM THAT ALL TREE STAKES ARE SUFFICIENT TO SUPPORT TREES. REPLACE AS NEEDED.
 - REPLACE MULCH TO THE ORIGINAL DEPTH DICTATED IN CONSTRUCTION.
 - REPAIR OR REPLACE ANY NON-FUNCTIONAL/ DAMAGED IRRIGATION EQUIPMENT.
 - REMOVE, CLEAN AND REINSTALL ALL FILTERS.
 - FLUSH ALL DRIP EMITTER SYSTEMS.

PLANTING NOTES

- DO NOT WILLFULLY PROCEED WITH PLANTING AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS, GRADE DIFFERENCES AND/OR AREA DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER/OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH ANY SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH LANDSCAPE INSTALLATION OPERATIONS.
 - CONTRACTOR TO PROVIDE A MINIMUM OF 2% POSITIVE DRAINAGE IN ALL PLANTING AREAS. IN NO CASE SHALL WATER DRAIN TOWARDS BUILDINGS.
 - WEED AND EXISTING GRASS CONTROL:
 - WEED AND GRASS TYPES SHOULD BE IDENTIFIED BY AN APPROVED LICENSED PEST CONTROL ADVISOR TO ENSURE COMPATIBILITY WITH CHEMICALS AND SEASON OF THE APPLICATION. DO NOT USE CHEMICAL/METHOD THAT WOULD ADVERSELY AFFECT NEW PLANTING. REMOVE EXISTING PERENNIAL WEEDS FROM SITE BY MOWING AND GRUBBING.
 - SOILS
 - SOIL TESTING
 - THE CONTRACTOR SHALL OBTAIN A SOILS TEST FOR AGRICULTURAL SUITABILITY AND FERTILITY PREPARED BY A CALIFORNIA ASSOCIATION OF AGRICULTURAL LABORATORIES MEMBER. SOIL TESTING SHALL OCCUR AFTER ALL SOILS HAS BEEN IMPORTED TO THE SITE AND ROUGH GRADE ESTABLISHED, BUT PRIOR TO SOIL PREPARATION.
 - SOILS REPORT SHALL CONTAIN ANALYSIS OF SOIL TEXTURE, INFILTRATION RATE, PH, TOTAL SOLUBLE SALTS, SULPHUR, AND PERCENT ORGANIC MATTER. SOILS REPORT SHALL CONTAIN RECOMMENDATIONS FOR SOIL PREPARATION, AMENDED SOIL AND FERTILIZATION.
 - A MINIMUM OF 2 LOCATIONS SHALL BE SAMPLED, ADDITIONAL SAMPLES REQUIRED AT THE RATE OF ONE PER EVERY 10,000 SF OF LANDSCAPE AREA.
 - TWO (2) SAMPLES PER LOCATION SHALL BE TAKEN, ONE AT A DEPTH OF 10" AND ONE AT A DEPTH OF 24" TO 36". EACH SAMPLE SHALL CONTAIN APPROXIMATELY ONE QUART OF SOIL AND BE LABELED PER LOCATION AND DEPTH.
 - THIS REPORT SHALL BE FURNISHED TO THE OWNER/OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO IMPLEMENTATION.
 - SOIL PREPARATION:
 - FOR BID PURPOSES, ASSUME THE ROTOTILLING OF THE FOLLOWING AMENDMENTS INTO THE SOIL AT RATES INDICATED PER 1,000 SQUARE FEET AND INCORPORATE INTO THE TOP 6" OF SOIL:
 - 4 CUBIC YARDS (CY) NITROGEN STABILIZED REDWOOD SHAVINGS
 - 150 LBS GYPSUM
 - 125 LBS GRO POWER PLUS
 - BACKFILL: FOR BID PURPOSES, PLANT PIT BACKFILLING SOILS SHALL CONSIST OF ONE (1) PART EXCAVATED SOIL TO ONE (1) PART AMENDED SOIL. MATERIALS SHALL BE THOROUGHLY MIXED BEFORE PLACEMENT.
 - FERTILIZATION FOR BID PURPOSES, IN ADDITION TO BACKFILL, COMMERCIAL FERTILIZER 20-10-5 AGRIFORM 21-GRAM TABLETS SHALL BE ADDED TO PLANT PITS AT THE FOLLOWING RATES:
 - 1 TABLET PER 1 GALLON CONTAINER
 - 2 TABLETS PER 5 GALLON CONTAINER
 - 3 TABLETS PER 15 GALLON CONTAINER
 - 4 TABLETS PER 24" BOX
 - 5 TABLETS PER 30" BOX
 - 6 TABLETS PER 36" BOX
 - 7 TABLETS PER 42" BOX
 - 8 TABLETS PER 48" BOX AND THOSE LARGER THAN 48"
 - NO PACKS TO BE USED FOR SEASONAL COLOR AREAS.
- SHOULD IMPORT SOIL BE NECESSARY, INDICATE SOURCE LOCATION. SOIL SHALL BE SANDY LOAM CONTAINING NO TOXIC CHEMICALS. SUBMIT AGRICULTURAL SUITABILITY AND FERTILITY TESTING FOR THIS IMPORT TO OWNER/OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO SOIL IMPORTATION. TEST REPORT SHALL INCLUDE AMENDMENT RECOMMENDATIONS AND BE DONE BY AN APPROVED CALIFORNIA ASSOCIATION OF AGRICULTURAL LABORATORIES MEMBER.
- UNDER NO CIRCUMSTANCES, CONCRETE AND OTHER DEBRIS MAY BE CRUSHED AND REUSED AS FILL IN PLANTING AREA.
- PLANT MATERIAL APPROVAL AND PLACEMENT
 - PROVIDE TREES, SHRUBS AND OTHER PLANTS OF SIZE, GENUS, SPECIES AND VARIETY SHOWN AND SCHEDULED FOR LANDSCAPE WORK AND COMPLYING WITH THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z601).
 - ALL PLANT MATERIAL OF A GIVEN SPECIES SHALL HAVE MATCHING FORM, UNLESS OTHERWISE SPECIFIED.
 - IS IT THE CONTRACTOR'S RESPONSIBILITY TO FURNISH PLANT MATERIAL FREE FROM PESTS OR PLANT DISEASES. PRE-SELECTION OR TAGGED MATERIAL MUST BE INSPECTED BY THE CONTRACTOR AND CERTIFIED TO BE PEST AND DISEASE FREE PRIOR TO SHIPMENT. IT IS THE CONTRACTOR'S OBLIGATION TO PROVIDE ANY REQUIRED CERTIFICATIONS AND WARRANTY FOR ALL PLANT MATERIAL.
 - FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER/OWNER'S REPRESENTATIVE.
 - NURSERY STAKES SHALL BE REMOVED FROM ALL TREES AFTER PLANTING. TREES SHALL BE ABLE TO BE SUPPORTED BY TREE STAKES ONLY.
 - IN AREAS WITH EXISTING TURF OR GROUND COVER, CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF BARE SPOTS AND ALL SCARS DUE TO IRRIGATION INSTALLATION OR RE-GRADING, AND SHALL MATCH EXISTING PLANTING TO ACHIEVE A UNIFORM OVERALL APPEARANCE.
 - LOCATION OF EXISTING TREES ARE APPROXIMATE. IF DURING GRADING OPERATION, EXISTING GRADE CANNOT BE MAINTAINED WITHIN DRIPLINE OF TREES, CONTACT OWNER/OWNER'S REPRESENTATIVE FOR DIRECTION PRIOR TO GRADING.
 - ANNUAL COLOR SHALL BE SELECTED BY OWNER/OWNER'S REPRESENTATIVE AT TIME OF INSTALLATION.
- MULCH
 - ALL SHRUB/GROUND COVER AREAS SHALL BE TOP DRESSED WITH A MINIMUM OF 3" MULCH. TYPE SHALL BE SPECIFIED ON THE PLANS. SUBMIT SAMPLES TO OWNER/OWNER'S REPRESENTATIVE FOR APPROVAL.
- ROOT BARRIERS
 - IN ADDITION TO ROOT BARRIERS SHOWN ON THE PLANS, ALL TREES WITHIN 5' OF ANY HARDSCAPE SHALL HAVE ROOT BARRIERS PLACED ADJACENT TO ANY HARDSCAPE. ROOT BARRIERS SHALL BE TEN (10) FOOT LONG BY 24" DEEP AND CENTERED ALONG TRUNK OF TREE.
- MOW STRIPS
 - IN ADDITION TO ANY MOW STRIPS OR HEADERS SHOWN ON THE PLANS, CONCRETE MOW STRIP, REDWOOD OR RECYCLED PLASTIC HEADERBOARD SHALL BE INSTALLED PER DETAIL WHEREVER GROUND COVER AREAS MEET TURF.

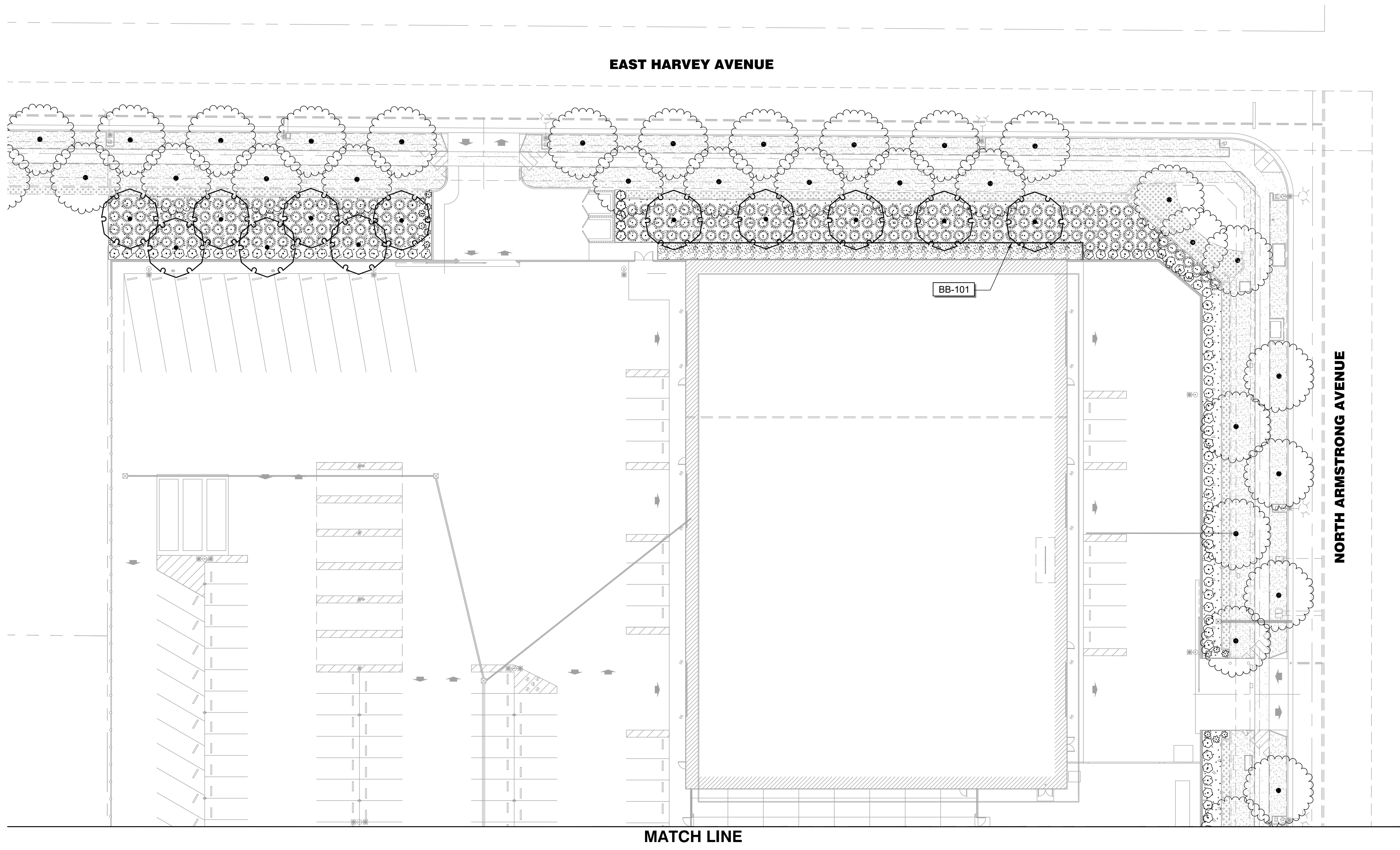


Project:
 Sheriff Area 2 Sub-Station
 1122 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04-.05 and -.06
 ISSUE DATE: 05.27.2020
 PROJECT NO: 180293 / 19003
 FILE NAME: 20-03-002_L5a

Sheet Content:
 PLANTING
 SCHEDULE AND NOTES

Fresno County Department of
 Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
 LA-1.0

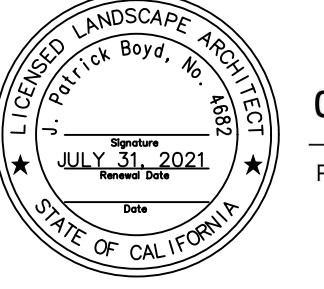


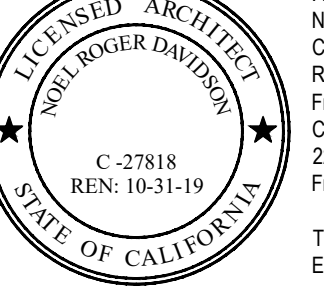
EAST HARVEY AVENUE

NORTH ARMSTRONG AVENUE

MATCH LINE

BB-101


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ARCHITECT:
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 2220 Tulare Street, 8th Floor
 Fresno, California 93721
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 E-mail: ndavidson@co.fresno.ca.us

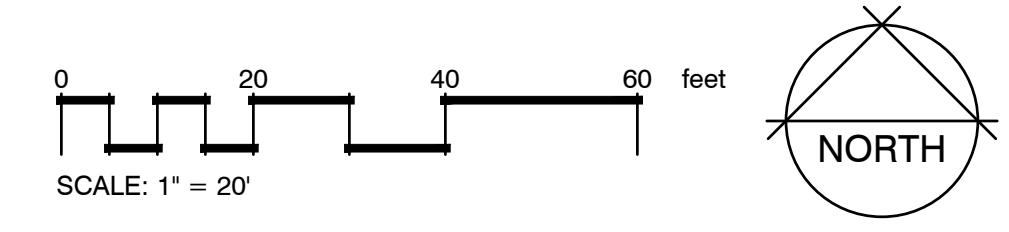
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 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04-.05, and -.06
 ISSUE DATE: 06.27.2020
 PROJECT NO: 180293 / 19003
 FILE NAME: 20-03-002_LSa

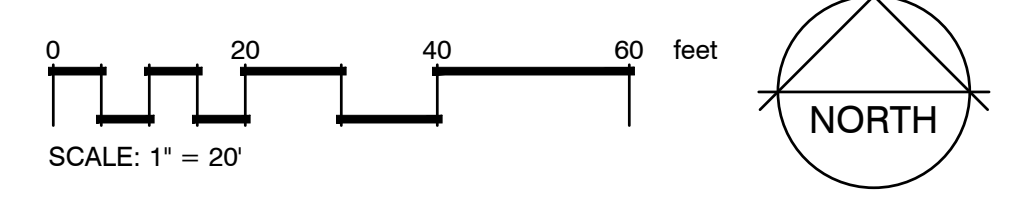
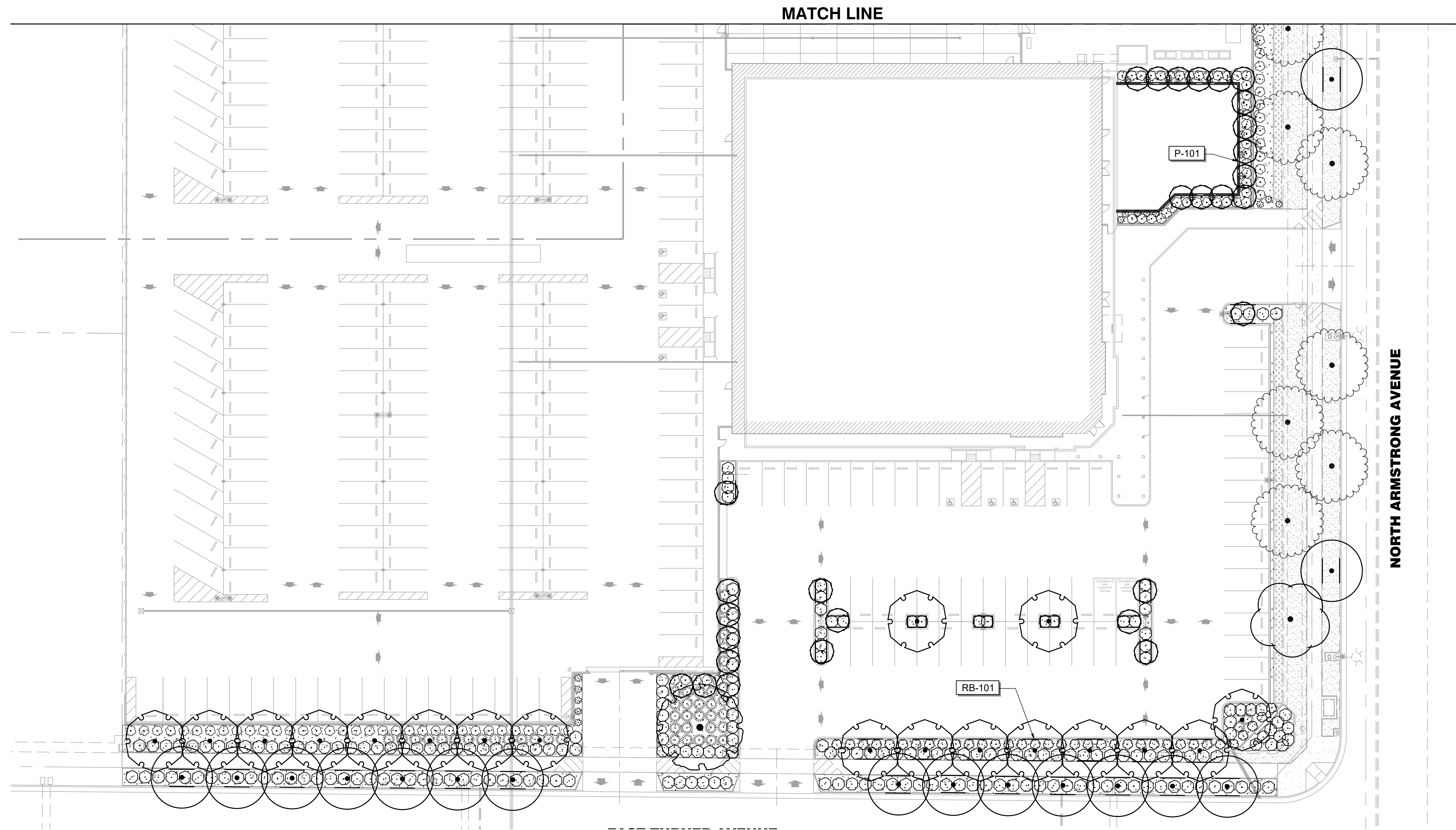
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 PLAN

Fresno County Department of
 Public Works and Planning
 Capital Projects


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Sheet No.
LA-1.1





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Project:
 Sheriff Area 2 Sub-Station
 1120 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 05.27.2020
 PROJECT NO: 180293 / 19003
 FILE NAME: 20-03-002_L5a

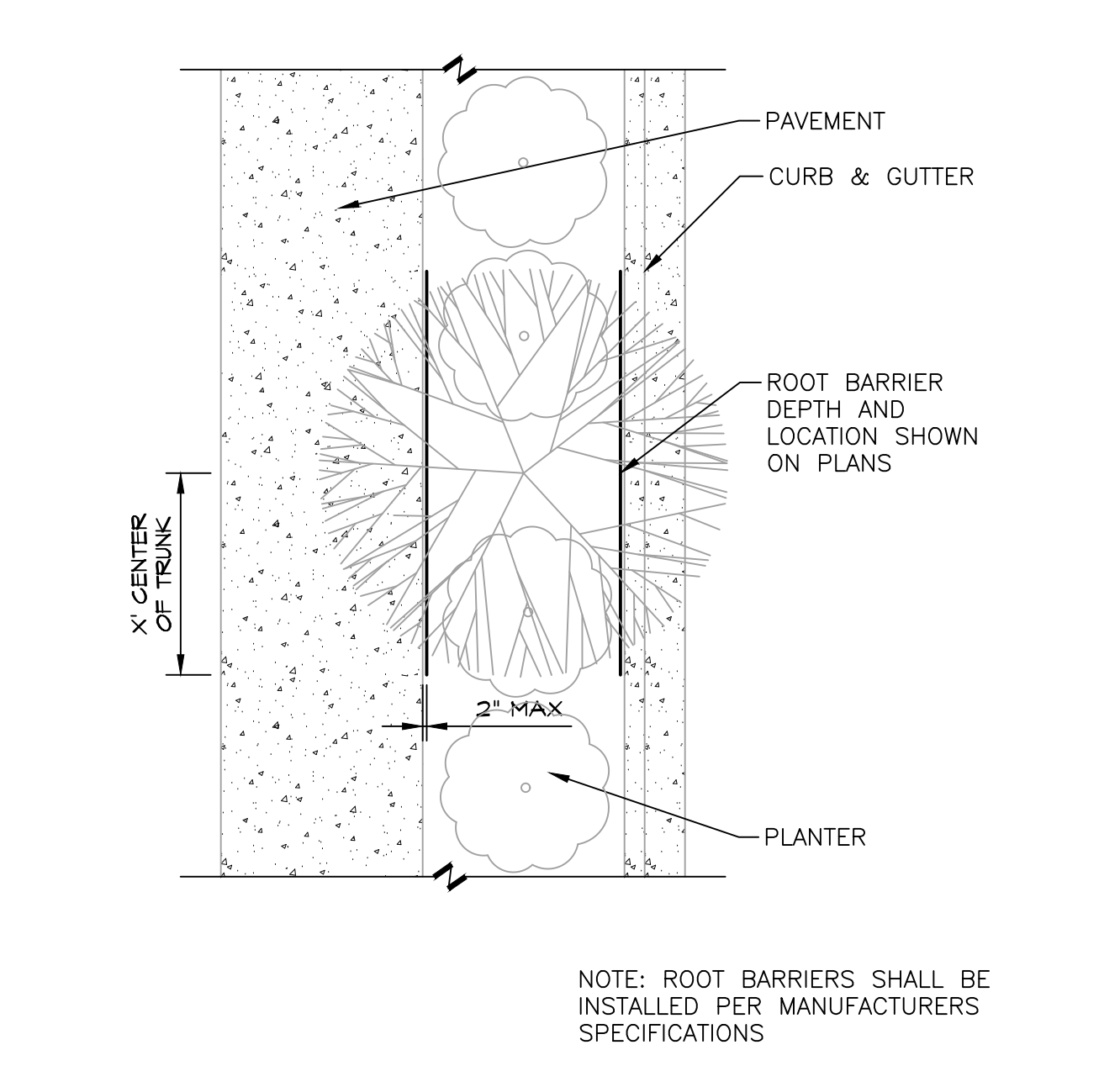
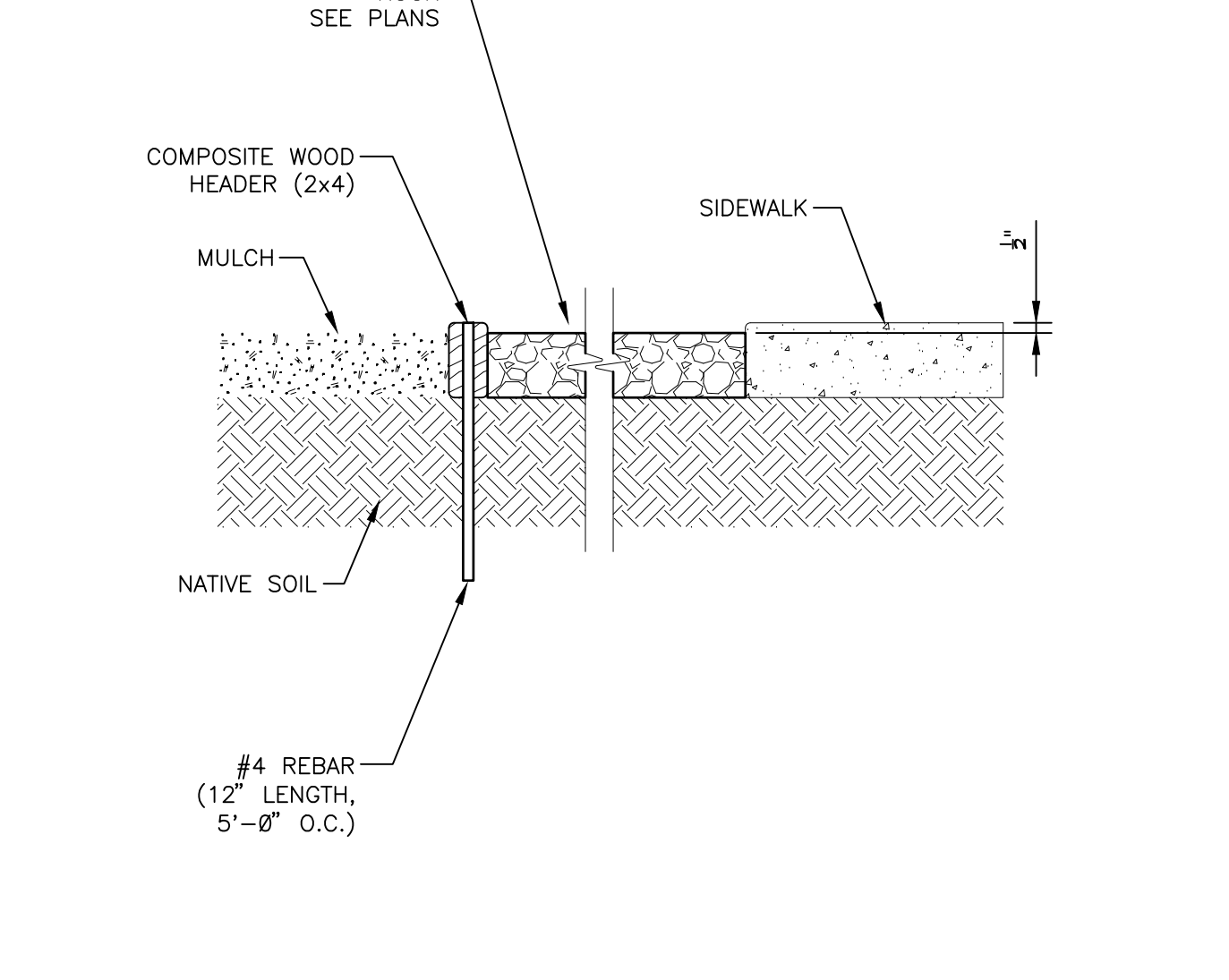
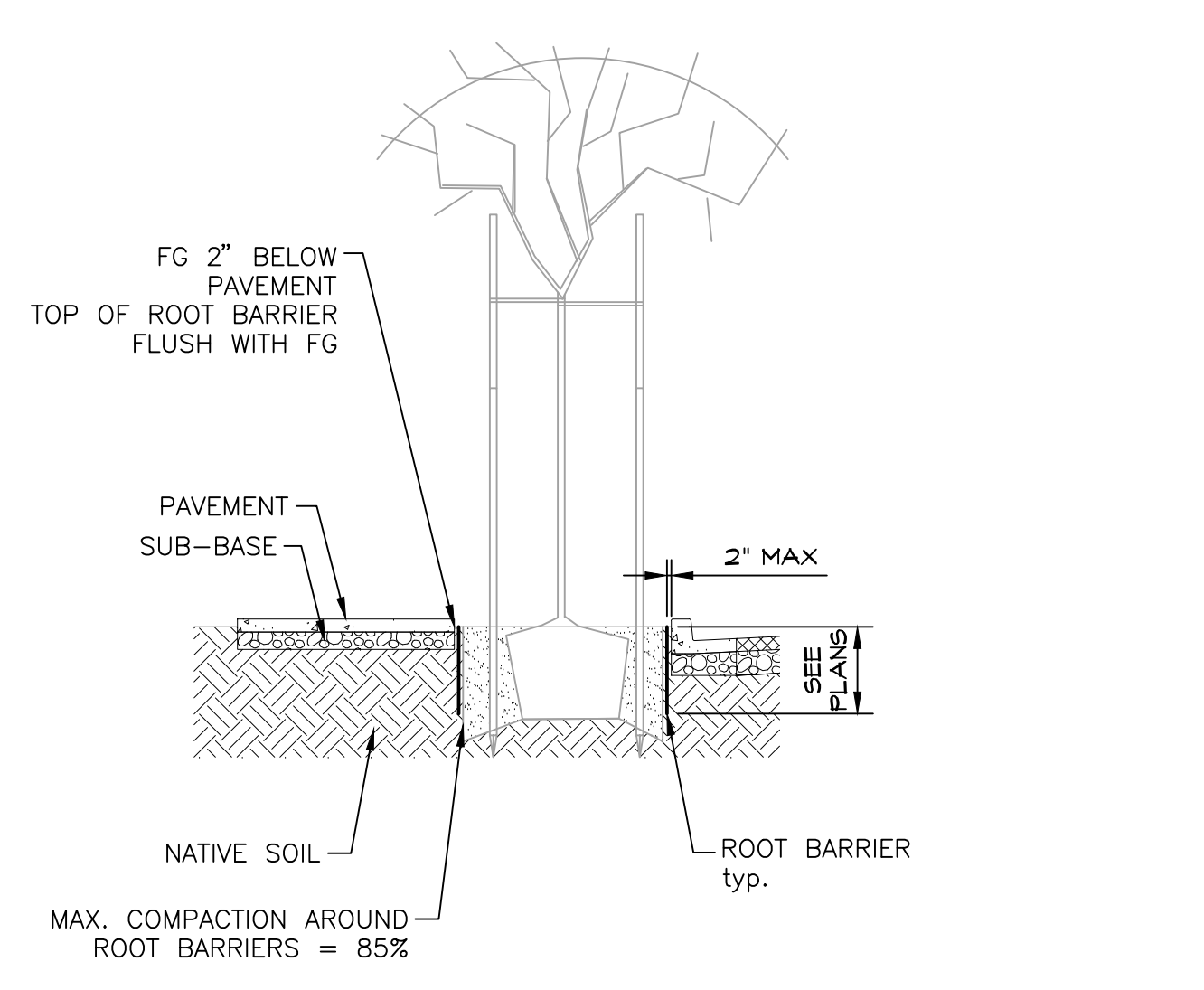
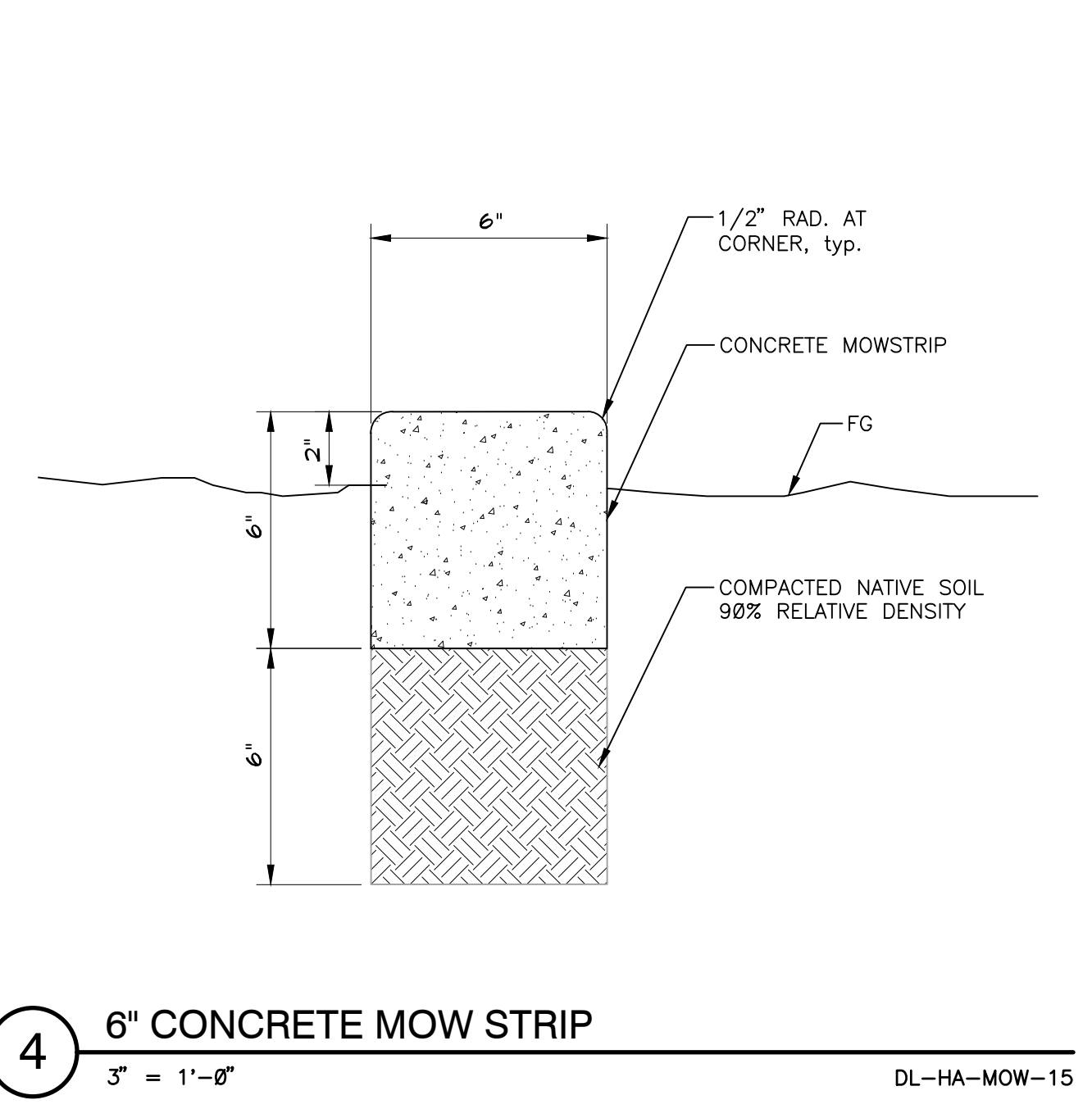
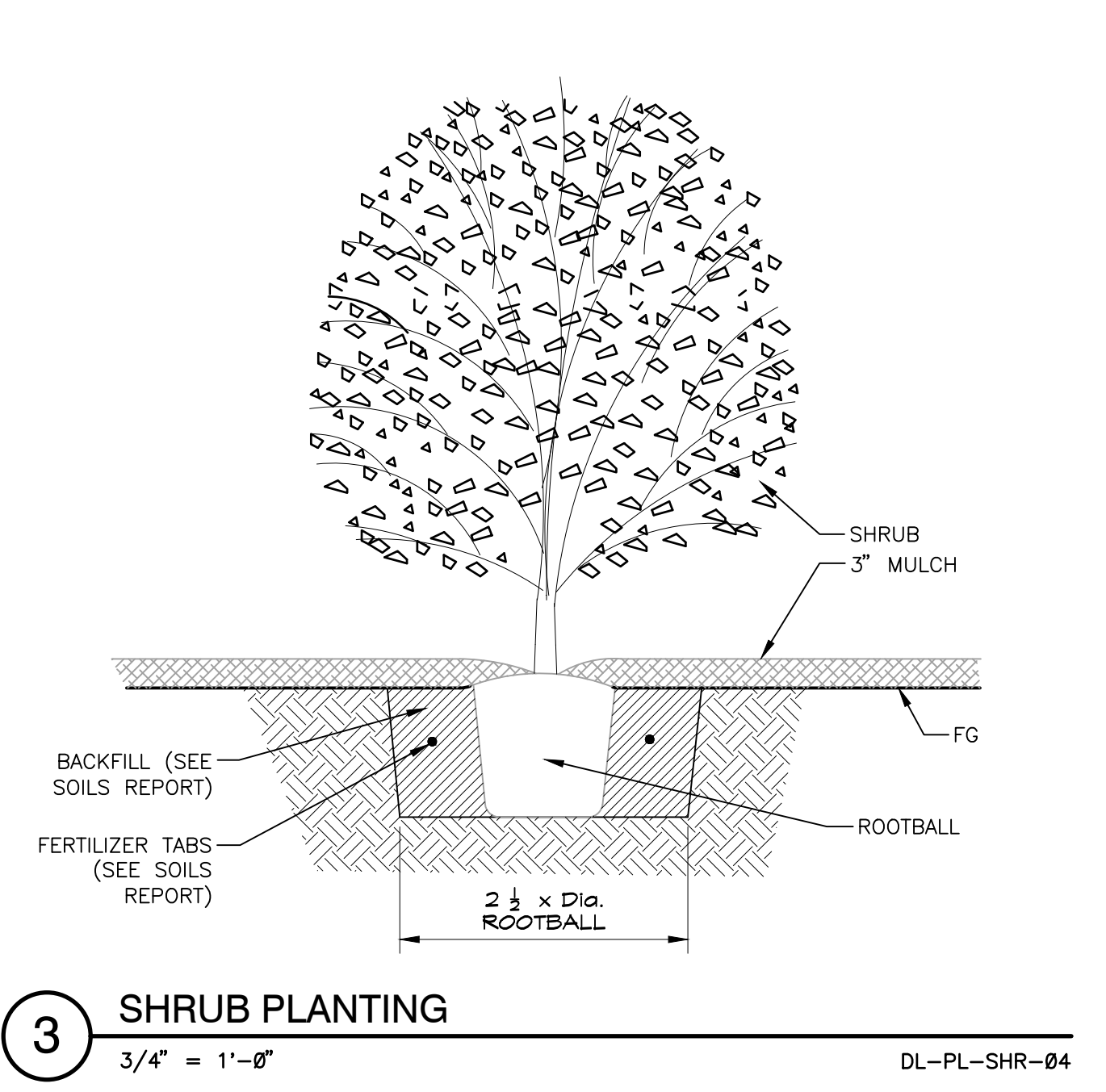
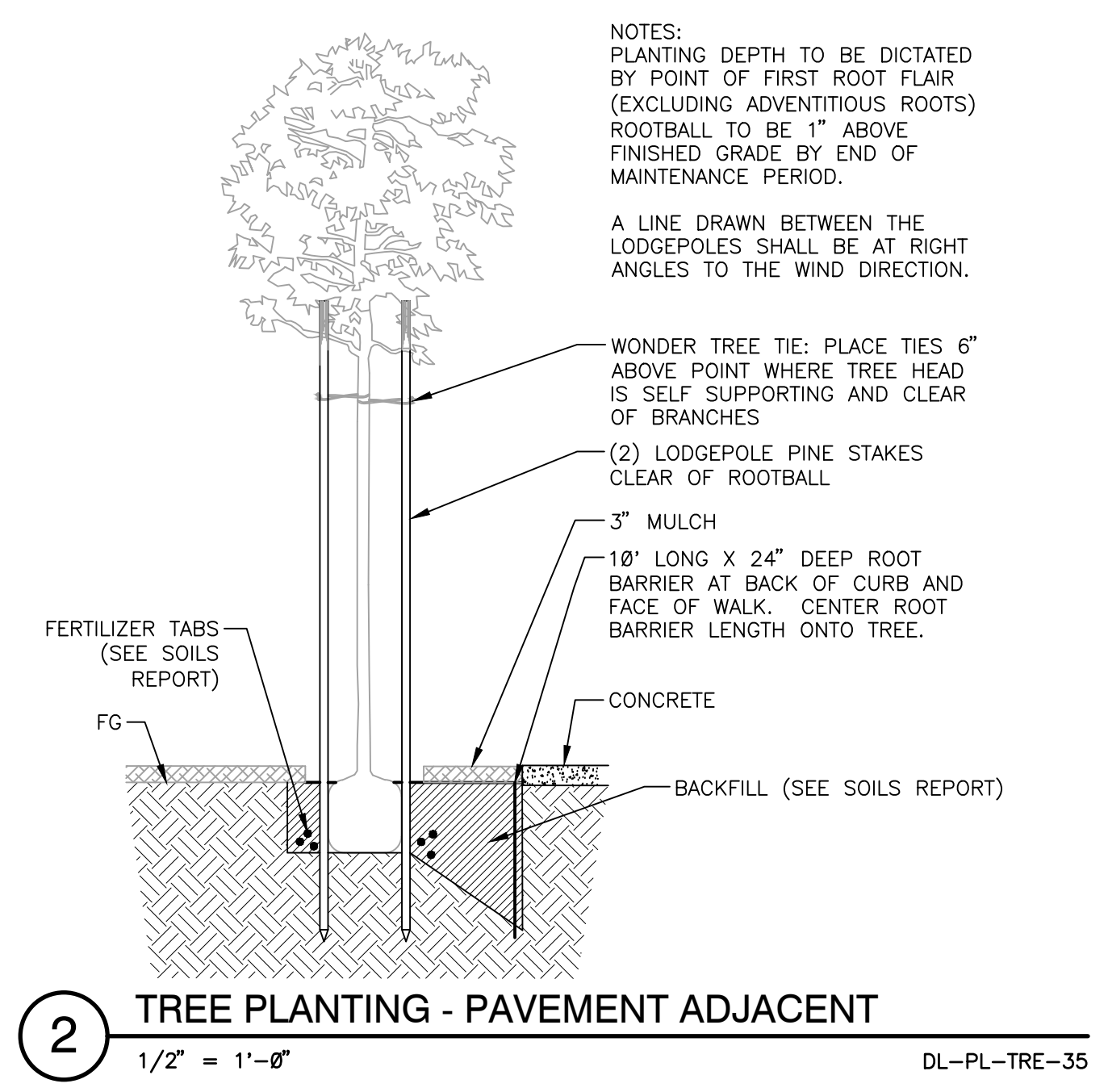
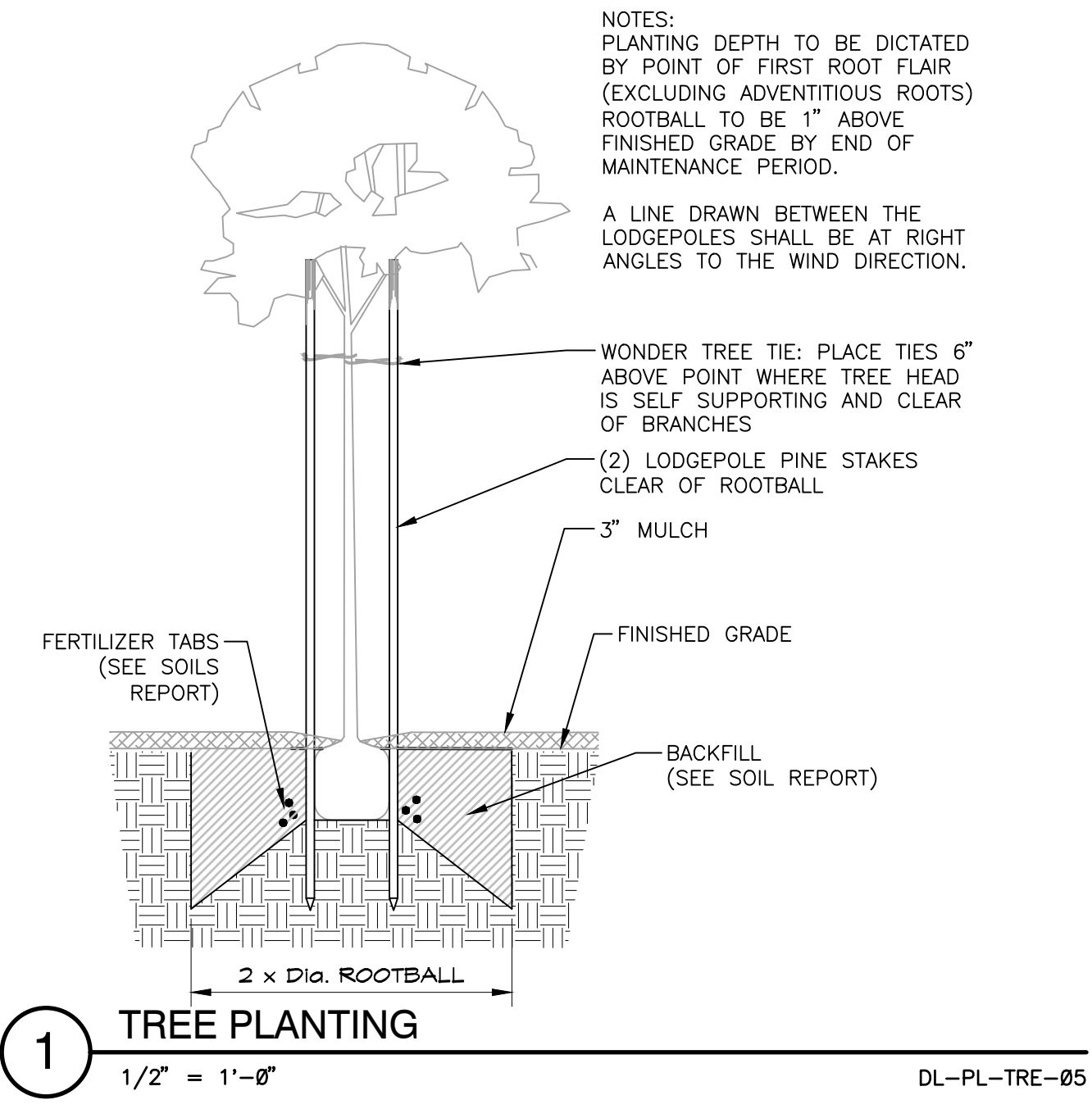
Sheet Content:
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 PLAN

Fresno County Department of
 Public Works and Planning
 Capital Projects

2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
LA-1.2

Drawn by: ----
Plot date: 05.27.2020



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Project:
Sheriff Area 2 Sub-Station
1122 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 05.27.2020
PROJECT NO: 180293 / 190003
FILE NAME: 20-03-002_L3a

Sheet Content:
PLANTING
DETAILS

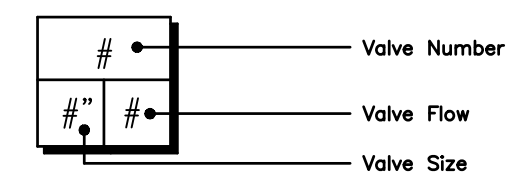
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Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
LA-1.3

Drawn by: --- Plot date: 05.27.2020

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	ARC	PSI	GPM	RADIUS
☉	TORO 5705-FB-PC PRESSURE-COMPENSATING FLOOD BUBBLER NOZZLE ON 5705 FIXED RISER. 0.35GPM, 0.56PM, 1.02PM, AND 2.02PM.	117	360	20	0.45	3'
☒	DRIP ZONE VALVE KIT-TORO DZK-100 1" DRIP CONTROL VALVE KIT WITH 1" IRRITROL 700 ULTRAFLOW IN-LINE VALVE, TORO Y-FILTER, AND MEDIUM-FLOW PRESSURE REGULATOR AND FITTINGS. 0.102PM-30.02PM.	5				
⊕	FLUSH VALVE-TORO T-FCH-H-FIPT PLUMBED TO FLUSH MANIFOLD AT LOW POINT.	16				
▨	AREA TO RECEIVE DRIPLINE TORO T-FCH-IB-IB DRIPLINE COMPENSATING LANDSCAPE DRIPLINE. 0.89 GPM EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN.	19,379 LF.				
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY				
⊖	REMOTE CONTROL VALVE-IRRITROL 100 1" ELECTRIC REMOTE CONTROL VALVE	3				
⊖	REMOTE CONTROL VALVE-IRRITROL 100 3/4" ELECTRIC REMOTE CONTROL VALVE	1				
⊗	BALL VALVE-MATCO-NORCA T105 PVC WHITE BALL VALVE FOR SCH 40 AND SCH 80 PIPE. SOLVENT SLIP ENDS WITH T HANDLE, SAME SIZE AS MAINLINE. 1/2" TO 4".	5				
⊗	GATE VALVE-NIBCO T-1B CLASS 125 BRONZE GATE SHUT OFF VALVE WITH WHEEL HANDLE. SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4" - 3".	1				
⊕	IRRITROL 700-3 1" ULTRAFLOW ELECTRIC VALVE, INTERNAL BLEED FLOW CONTROL. 30-180 GPM FLOW RANGE. 7/8 H X 5-1/2" W X 8 1/2" D	1				
⊖	BACKFLOW PREVENTER-FERG 825Y 1" REDUCED PRESSURE BACKFLOW PREVENTER	1				
A	CONTROLLER-IRRITROL MC-12-E WITH CLIMATE LOGIC 12- STATION, COMMERCIAL-GRADE, OUTDOOR/INDOOR CONTROLLER. EQUIPPED IN A RUGGED, LOCKABLE, VANDAL-PROOF, WEATHER RESISTANT STEEL CABINET. WALL MOUNTED WITH CLIMATE LOGIC. SEE ELECTRICAL PLANS FOR SERVICE.	1				
FS	FLOW SENSOR-TORO TFS 1" 1/2", 3/4", 1", 1-1/2", 2", 3", 3", AND 4" PLASTIC TEE SIZES. EFFECTIVE FLOW MONITORING, EVEN IN FLOWS LESS THAN 5 GPM. COMPATIBLE WITH TORO AND COMPETITIVE CONTROLLERS. IMPELLER-BASED, PVC DESIGN.	1				
WM	WATER METER 2" EXISTING 2" WATER METER. ASSUMED 50 PSI STATIC WATER PRESSURE.	1				
---	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 3/4"	2201 LF.				
---	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1"	278.9 LF.				
---	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1 1/2"	895.6 LF.				
---	IRRIGATION MAINLINE: PVC SCHEDULE 40 3/4"	45.7 LF.				
---	IRRIGATION MAINLINE: PVC SCHEDULE 40 1"	124 LF.				
---	IRRIGATION MAINLINE: PVC SCHEDULE 40 1 1/2"	2034 LF.				
---	IRRIGATION MAINLINE: PVC SCHEDULE 40 2"	898.8 LF.				
----	PIPE SLEEVE: PVC SCHEDULE 40 2X PIPE DIAMETER	299.7 LF.				



IRRIGATION NOTES

- THE IRRIGATION SYSTEM INDICATED ON THE PLANS IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR GRAPHIC DESIGN CLARIFICATION PURPOSES ONLY. EQUIPMENT SHALL BE LOCATED IN ADJACENT PLANTER. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING OR ARCHITECTURAL FEATURES.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, WALL LOCATIONS, ETC. THAT WILL AFFECT HIS WORK. IRRIGATION CONTRACTOR SHALL NOT INSTALL THE SYSTEM AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS THAT CONSTRUCTION GRADE DIFFERENCES OR AREA DIMENSION DIFFERENCES EXIST. NOTIFY THE OWNER/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES. IN THE EVENT THAT NOTIFICATION IS NOT MADE, THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR NECESSARY CHANGES AND WORK.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR AND OTHERS FOR LOCATING PIPE AND WIRE SLEEVES THROUGH WALLS, STRUCTURES, UNDER ROADS PAVINGS, ETC.
- THE IRRIGATION DESIGN IS BASED ON A MINIMUM OPERATING PRESSURE SHOWN FOR EACH POINT OF CONNECTION AND MAXIMUM GPM (GALLONS PER MINUTE) DEMAND SPECIFIED.
- MAINLINE FEEDER BETWEEN POINT OF CONNECTION, METER AND BACKFLOW PREVENTER TO BE OF MATERIAL REQUIRED BY LOCAL WATER DISTRICT.
- WHERE APPLICABLE, FINAL LOCATION OF THE BACKFLOW PREVENTER AND IRRIGATION CONTROLLER SHALL BE APPROVED BY THE CITY'S REPRESENTATIVE AND/OR OWNER'S REPRESENTATIVE.
- A 120-VOLT ELECTRICAL POWER OUTLET AT EACH AUTOMATIC CONTROLLER LOCATION SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO COORDINATE NECESSARY POWER SOURCES AND TO MAKE THE FINAL LOOP UP FROM THE ELECTRICAL OUTLET TO THE AUTOMATIC CONTROLLER(S), INCLUDING PROPER GROUNDING AS REQUIRED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- IN ADDITION TO THE SLEEVES SHOWN ON THE PLAN, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ADDITIONAL SLEEVES OF SUFFICIENT SIZE UNDER ALL PAVED AREAS UPON APPROVAL OF THE OWNER'S REPRESENTATIVE, IF REQUIRED TO OPERATE THE SYSTEM. SLEEVES SHALL BE 2 X DIAMETER OF THE PIPE.
- CONCRETE THRUST BLOCKS SHALL BE PROVIDED ON ALL MAINLINE PIPING. THEY ARE TO BE LOCATED AT ALL ABRUPT CHANGES TO HORIZONTAL ALIGNMENT, REDUCTION IN PIPE SIZES, END OF LINE AND IN-LINE VALVES TO ABSORB ANY AXIAL THRUST OF THE PIPE. THRUST BLOCKS MUST BE FORMED AGAINST UNDISTURBED EARTH.
- INSTALL VALVE BOXES 4" FROM AND PERPENDICULAR TO PATH EDGE, CURB, LAWN, BUILDINGS OR HARDSCAPE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC AND EACH BOX SHALL BE 6" APART. SHORT SIDE OF VALVE BOX SHALL BE PARALLEL TO WALK, CURBS, LAWN, ETC.
- SPLICES OF 24-VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE 24" COIL OF EXCESS WIRE AT EACH SPLICE. LABEL ALL WIRES WITH WATERPROOF MARKERS AT ALL SPLICES.
- IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE. WATER CONSERVATION AND PREVENTION OF OVERSPRAY ONTO WALKS AND ROADWAYS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITION AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE REQUIREMENTS:

- SEE CIVIL PLANS FOR GRADING PLAN.
- A SOILS REPORT IS REQUIRED. SOIL TESTING SHALL OCCUR AFTER ALL SOIL HAS BEEN IMPORTED TO THE SITE, BUT PRIOR TO SOIL PREPARATION. THE CONTRACTOR SHALL OBTAIN A SOILS TEST FOR AGRICULTURAL SUITABILITY AND FERTILITY PREPARED BY A CALIFORNIA ASSOCIATION OF AGRICULTURAL LABORATORIES MEMBER. REPORT SHALL CONTAIN RECOMMENDATIONS FOR SOIL PREPARATION AND BACKFILL MIX. THIS REPORT SHALL BE FURNISHED TO THE OWNER AND OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO IMPLEMENTATION.
- PRIOR TO PLANTING OF ANY MATERIALS, COMPACTED SOILS SHALL BE TRANSFORMED TO A FRIABLE CONDITION. ON ENGINEERED SLOPES, ONLY AMENDED PLANTING HOLES NEED MEET THIS REQUIREMENT. SOIL AMENDMENT SHALL BE INCORPORATED ACCORDING TO THE RECOMMENDATIONS OF THE SOILS REPORT AND WHAT IS APPROPRIATE FOR THE PLANTS SELECTED.
- FOR LANDSCAPE INSTALLATIONS, COMPOST AT A RATE OF A MINIMUM OF FOUR (4) CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF 6" INTO THE SOILS. SOILS WITH GREATER THAN 6% ORGANIC MATTER IN THE TOP SIX (6) INCHES ARE EXEMPT FROM ADDING COMPOST AND TILLING.
- A MINIMUM OF A THREE (3) INCH LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT IN TURF AREAS, CREEPING OR ROOTING GRASS COVERS, OR DIRECT SEEDING APPLICATIONS WHERE MULCH IS CONTRAINDICATED. UP TO 5% OF THE LANDSCAPE MAY BE LEFT WITHOUT MULCH FOR INSECT HABITAT, AND SUCH ARE MUST BE NOTED ON THE PLANS.

GENERAL PROJECT INFORMATION

Date: 5/27/2020

Project Name: FRESNO COUNTY SHERIFF SUBSTATION #2
 Project Type: Commercial Residential
 Name of Project Applicant: Patrick Boyd Telephone No. 559-472-9966 Fax No.
 Title: Landscape Architect Email Address: Patrick@designlab252.com
 Company: Designlab 252 Street Address: 371 E Everglade Avenue
 City: Fresno State: CA Zip Code: 93720

Project Address and Location
 Street Address: 1129 N. ARMSTRONG AVE Parcel, tract or lot number, if available:
 City: Fresno Latitude/Longitude (optional):
 State: CA Zip Code:

Property Owner or his/her designee:
 Name: COUNTY OF FRESNO Telephone No.
 Title: Email Address:
 Company: Street Address: 2220 TULARE ST
 City: FRESNO State: CA Zip Code: 93721

Water Purveyor: CITY
 Compliance Type: FULL COMPLIANCE

Insert monthly Eto and Precipitation totals where:
 Eto = Reference Evapotranspiration/month for Project Location (See Water Efficient Landscape Document.)
 Precip. = Precipitation/month for Project Location (see Wuculs or local weather station data on internet.)
 Eppt = Effective precipitation (25% of monthly Precip)

LOCATION: FRESNO

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTAL
Eto/Mo	0.9	1.7	3.3	4.8	6.7	7.8	8.4	7.1	5.2	3.2	1.4	0.6	51.1
Precip.													0.00
Eppt													0.00

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Eto-Eppt	0.9	1.7	3.3	4.8	6.7	7.8	8.4	7.1	5.2	3.2	1.4	0.6	51.1

20-03-002 MWELO DATA.xlsx
 GENERAL PROJECT INFORMATION

WATER EFFICIENT LANDSCAPE

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package
 Reference Evapotranspiration (Eto) 51.1 Project type ETAF 0.45

HYDROZONE/ PLANTING DESCRIPTION	HYDROZONE	PF	IRRIGATION METHOD**	Irrigation Efficiency (IE)	ETAF (PF/IE)	LANDSCAPE AREA (Sq. Ft.)	ETAF X AREA	ESTIMATED TOTAL WATER USE (ETWU)		
Regular Landscape Areas										
TREES	VERY LOW	0.1	B1/DR	0.81	0.12	0	0	0		
	LOW	0.3	B1/DR	0.81	0.37	24,777	9,177	290,735		
	MEDIUM	0.5	B1/DR	0.81	0.62	0	0	0		
SHRUBS/GC	HIGH	0.8	B1/DR	0.81	0.99	0	0	0		
	VERY LOW	0.1	B2/DL	0.81	0.12	0	0	0		
	LOW	0.3	B2/DL	0.81	0.37	19,125	7,083	224,414		
TURF/GC	MEDIUM	0.5	B2/DL	0.81	0.62	0	0	0		
	HIGH	0.8	B2/DL	0.81	0.99	0	0	0		
	VERY LOW	0.1	R/S	0.75	0.13	0	0	0		
TEMPORARY WATER FEATURE	LOW	0.3	R/S	0.75	0.40	0	0	0		
	MEDIUM	0.5	R/S	0.75	0.67	0	0	0		
	HIGH	0.8	R/S	0.75	1.07	0	0	0		
						TOTALS	43,902	16,260	515,149	
Special Landscape Areas										
							1.00	0	0	
							1.00	0	0	
							1.00	0	0	
						TOTALS	0	0	0	
								ETWU TOTAL	515,149.32	
									[MAXIMUM ALLOWED WATER ALLOWANCE] MAWA	625,906.42

ETAF Calculations

Regular Landscape Areas	ETAF
Total ETAF x area	16,260
Total Area	43,902
Average ETAF	0.37

All Landscape Areas

Regular Landscape Areas	ETAF
Total ETAF x area	16,260
Total Area	43,902
Sitewide ETAF	0.37

MAWA = Eto X 0.62 [ETAF x LA + (1-ETAF) X SLA]
 ETWU = Eto X 0.62 x ETAF X AREA
 Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non residential areas

HYDROZONE AREA (SF)

VALVE NUMBER	Type	Hydrozone	Area	A				B				C				D		E	
				*Trees (B1/DR)				Shrubs/GC (B2/DL)				Turf/GC (S/R)				Temp	Water Feature		
				VL	LW	MW	HW	VL	LW	MW	HW	VL	LW	MW	HW			LW	HW
1	B	LW	7020	0	0	0	0	0	7020	0	0	0	0	0	0	0	0	0	
2	A	LW	5892	0	5892	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	B	LW	2203	0	0	0	0	0	2203	0	0	0	0	0	0	0	0	0	
4	B	LW	694	0	0	0	0	0	694	0	0	0	0	0	0	0	0	0	
5	A	LW	1106	0	1106	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	A	LW	14730	0	14730	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	B	LW	7057	0	0	0	0	0	7057	0	0	0	0	0	0	0	0	0	
8	A	LW	3049	0	3049	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	B	LW	2151	0	0	0	0	0	2151	0	0	0	0	0	0	0	0	0	
10				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS				0	24777	0	0	0	0	19125	0	0	0	0	0	0	0	0	0

*Hydrozone area for all tree values calculated by using the mature canopy of trees

*Hydro zone	Water Use	Plant Factor	Project Value
VL	Very Low	0-0.1	0.1
LW	Low	0.1-0.3	0.3
MW	Medium	0.4-0.6	0.5
HW	High	0.7-1.0	0.8
SLA	Special	1	1

** Irrigation Method	Type		
B1	Drip Bubbler Tree	0.81	A
B2	Drip Bubbler Shr	0.81	B
DL/DR	Drip line/Drip Rin	0.81	C
R	Rotor	0.75	D
S	Spray	0.75	E

20-03-002 MWELO DATA.xlsx
 HYDROZONE AREA (SF)



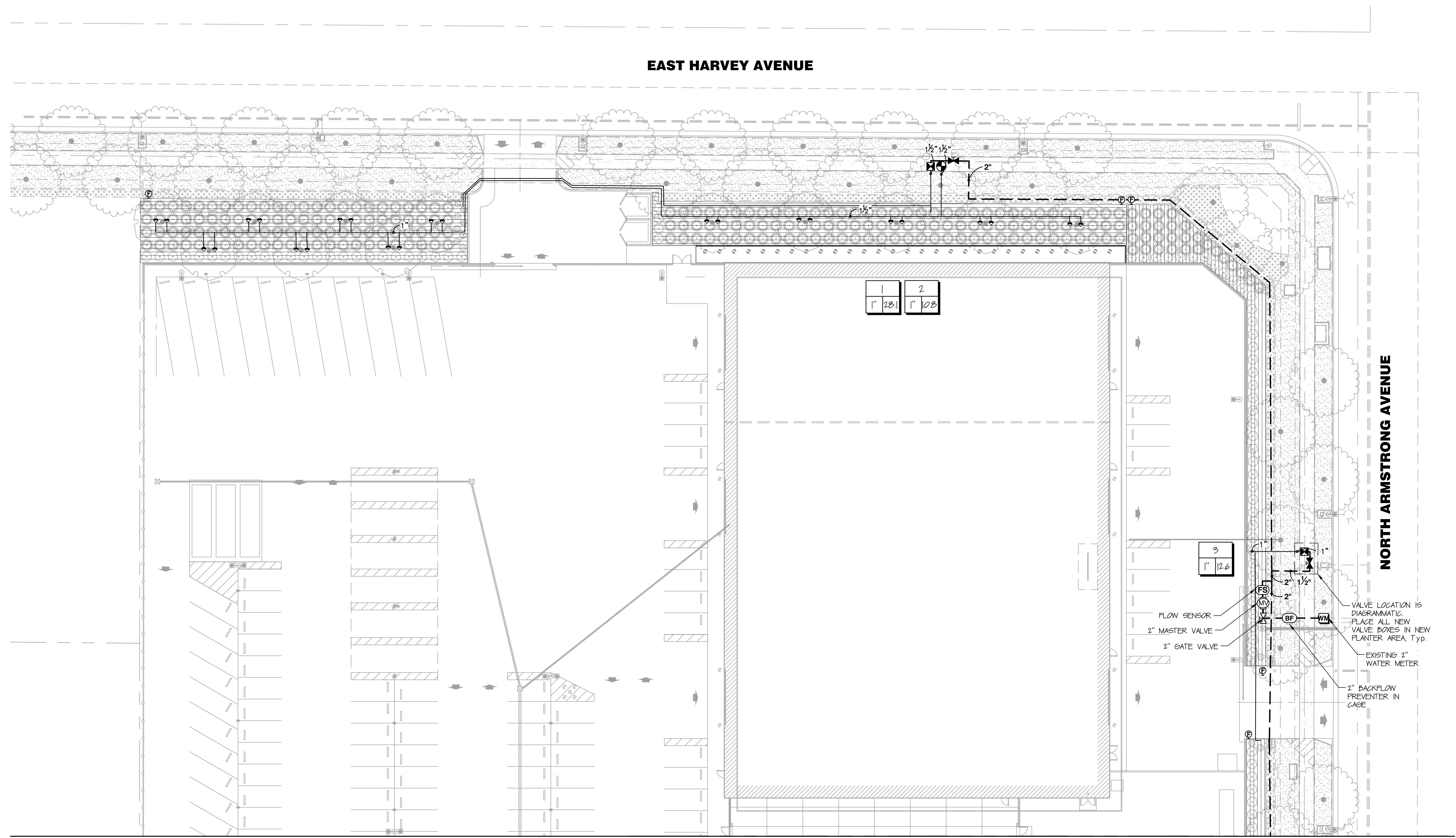
Project:
 Sheriff Area 2 Sub-Station
 1129 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04-.05, and -.06
 ISSUE DATE: 05.27.2020
 PROJECT NO: 180293 / 19003
 FILE NAME: 20-03-002_L5a

Sheet Content:
 IRRIGATION SCHEDULE
 AND NOTES

Fresno County Department of
 Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721



Sheet No.
 LA-2.0



EAST HARVEY AVENUE

NORTH ARMSTRONG AVENUE

MATCH LINE

3
1" 2.4

FLOW SENSOR
2" MASTER VALVE
2" GATE VALVE

VALVE LOCATION IS
DIAGRAMMATIC.
PLACE ALL NEW
" VALVE BOXES IN NEW
PLANTER AREA, Typ.

EXISTING 2"
WATER METER

2" BACKFLOW
PREVENTER IN
CASE

1 2
1" 2.0 1" 2.0

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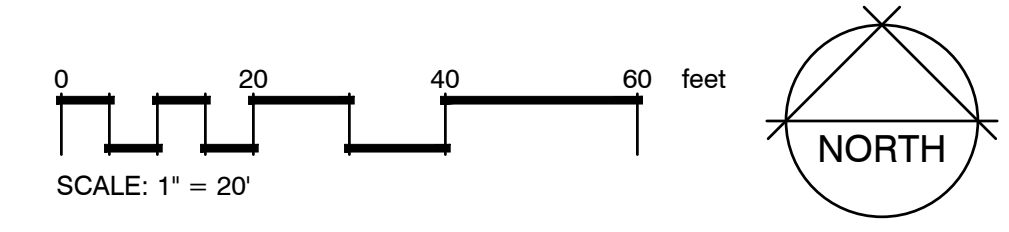
Project:
Sheriff Area 2 Sub-Station
1120 N. Armstrong Ave., Fresno, CA
APN: 310-133-04, -05, and -06
ISSUE DATE: 05.27.2020
PROJECT NO: 180293 / 19003
FILE NAME: 20-03-002_L5a

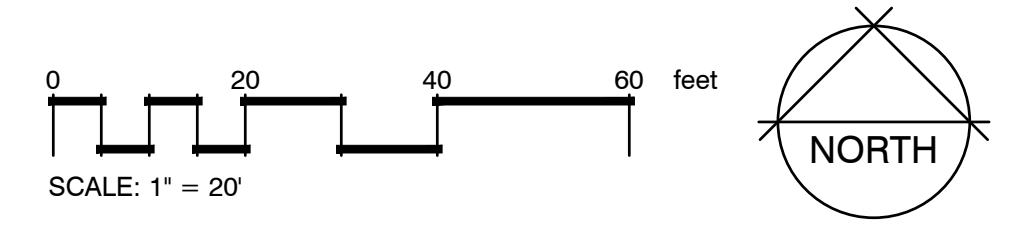
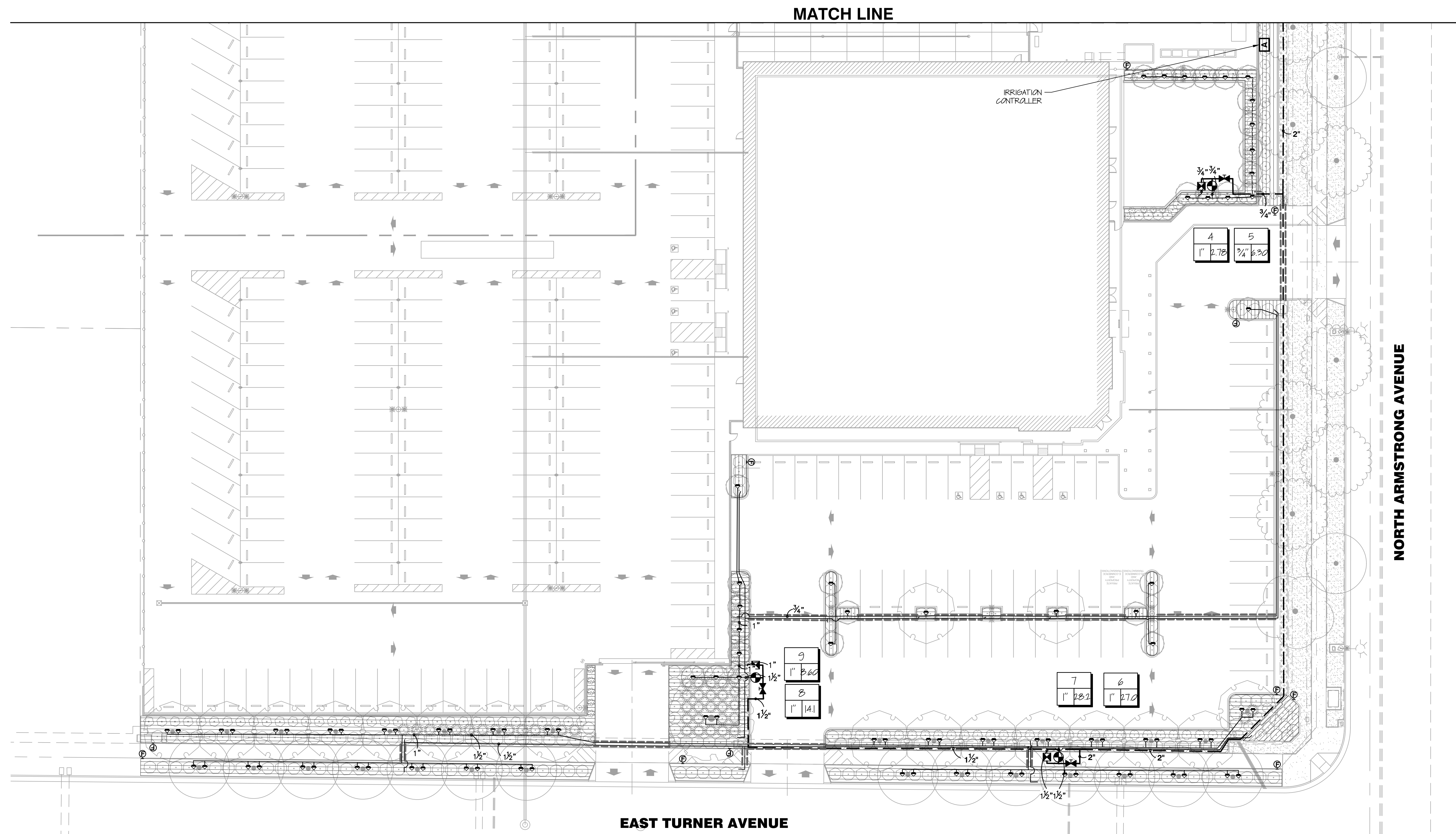
Sheet Content:
IRRIGATION
PLAN

Fresno County Department of
Public Works and Planning
Capital Projects

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Sheet No.
LA-2.1





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Project:
 Sheriff Area 2 Sub-Station
 1120 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 05.27.2020
 PROJECT NO: 180293 / 19003
 FILE NAME: 20-03-002_LSa

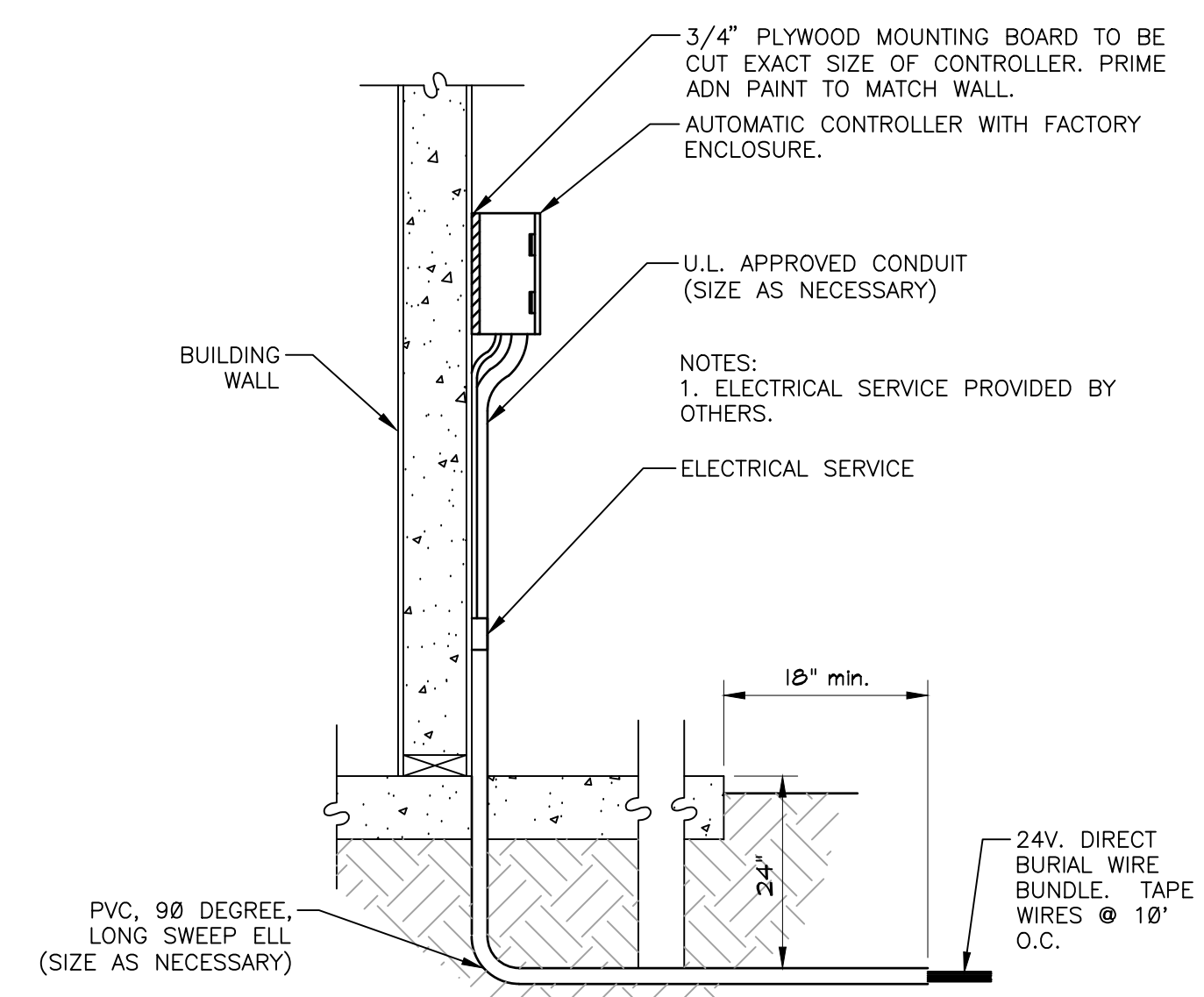
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 PLAN

Fresno County Department of
 Public Works and Planning
 Capital Projects

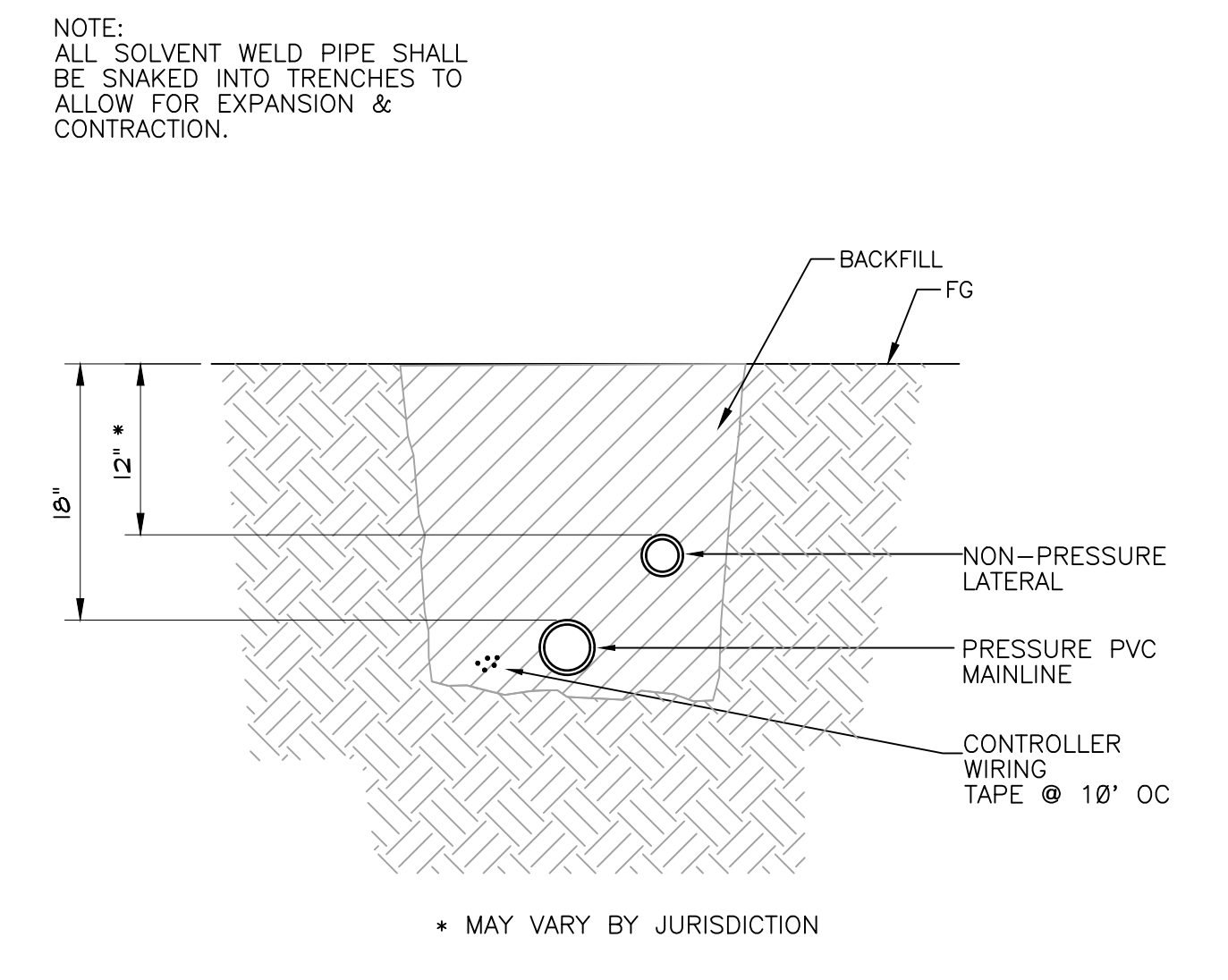
2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
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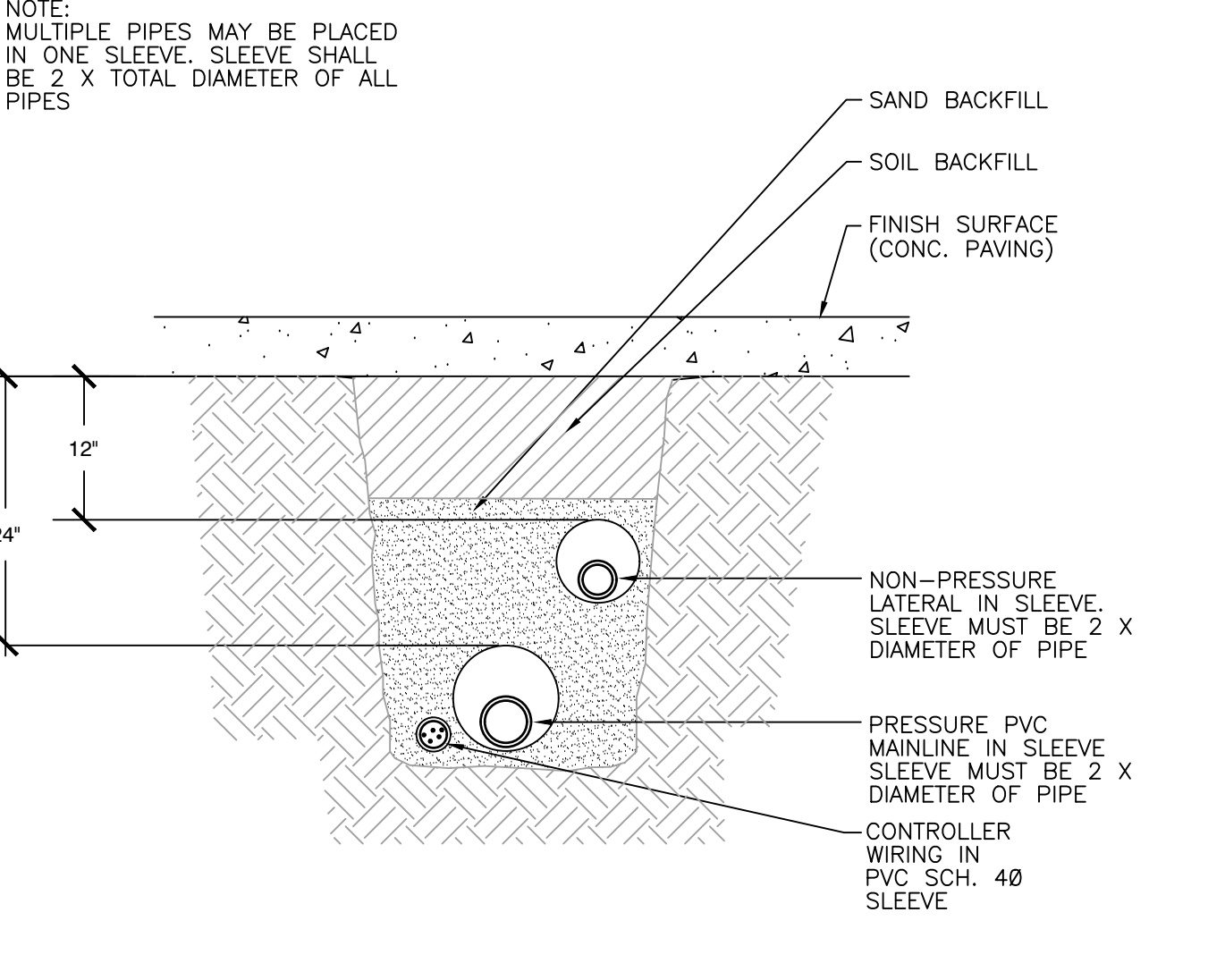
Drawn by: --- Plot date: 05.27.2020



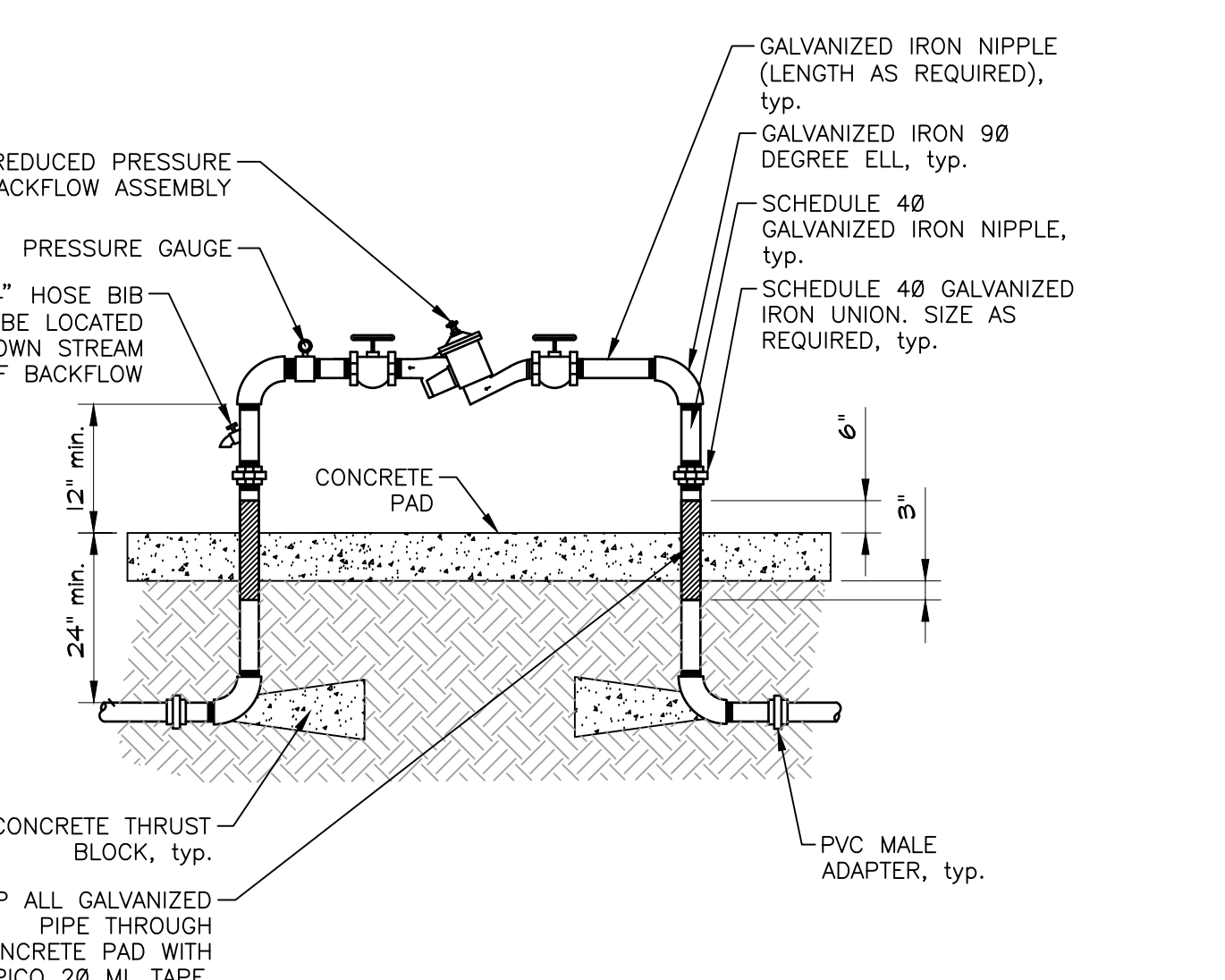
1 IRRIGATION CONTROLLER - WALL MOUNT
 3/4" = 1'-0"
 DL-IR-IC-10



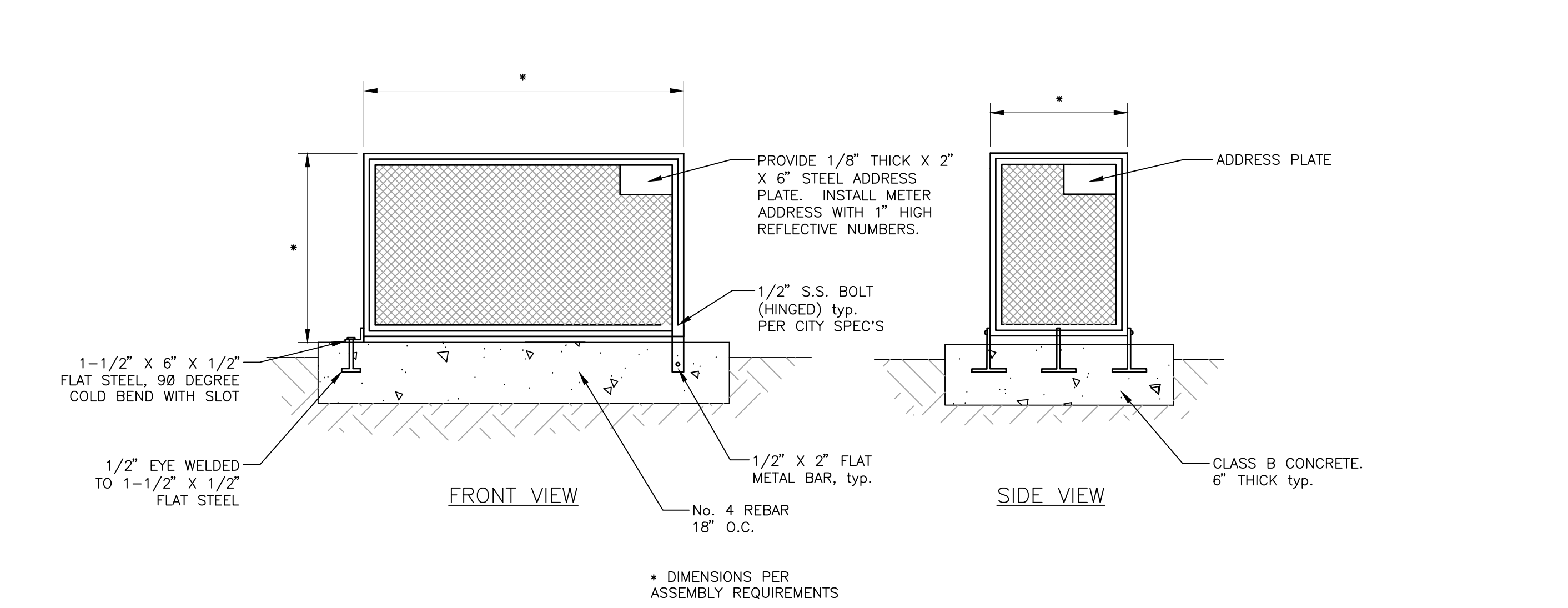
2 TRENCHING
 1" = 1'-0"
 DL-IR-PIP-02



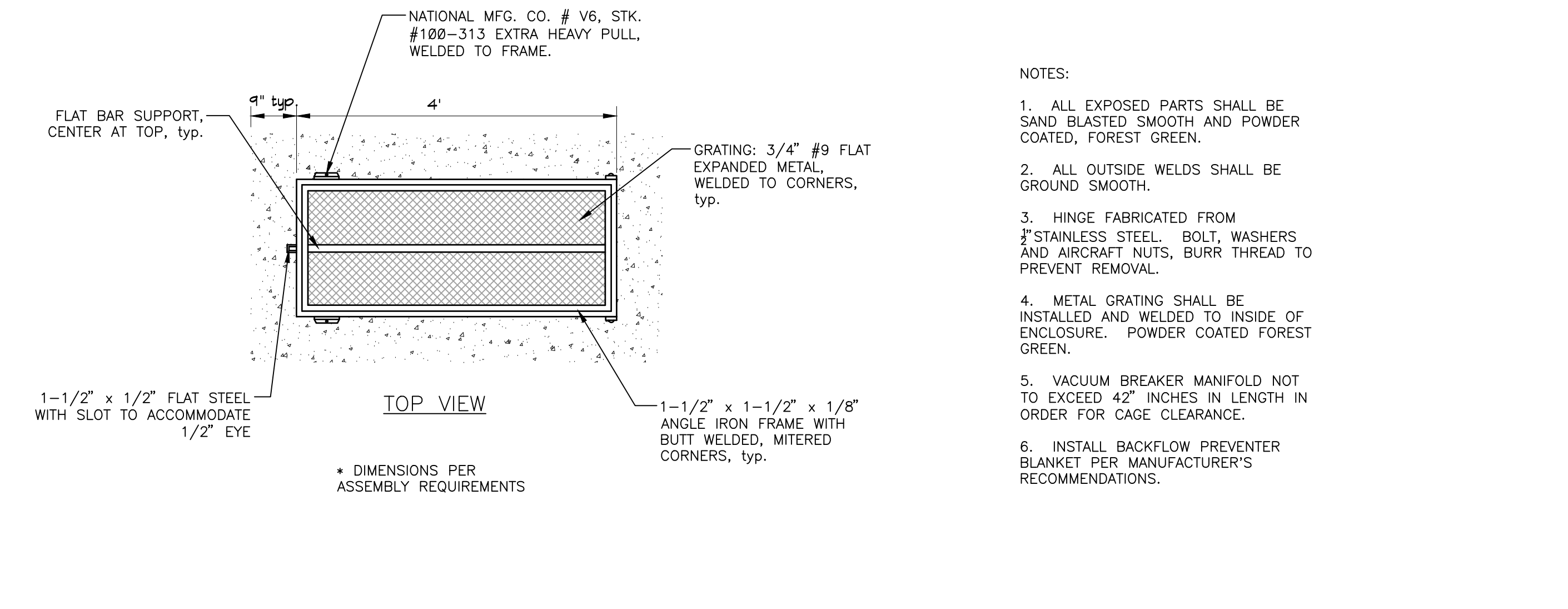
3 IRRIGATION SLEEVE - TRENCH
 1" = 1'-0"
 DL-IR-PIP-05



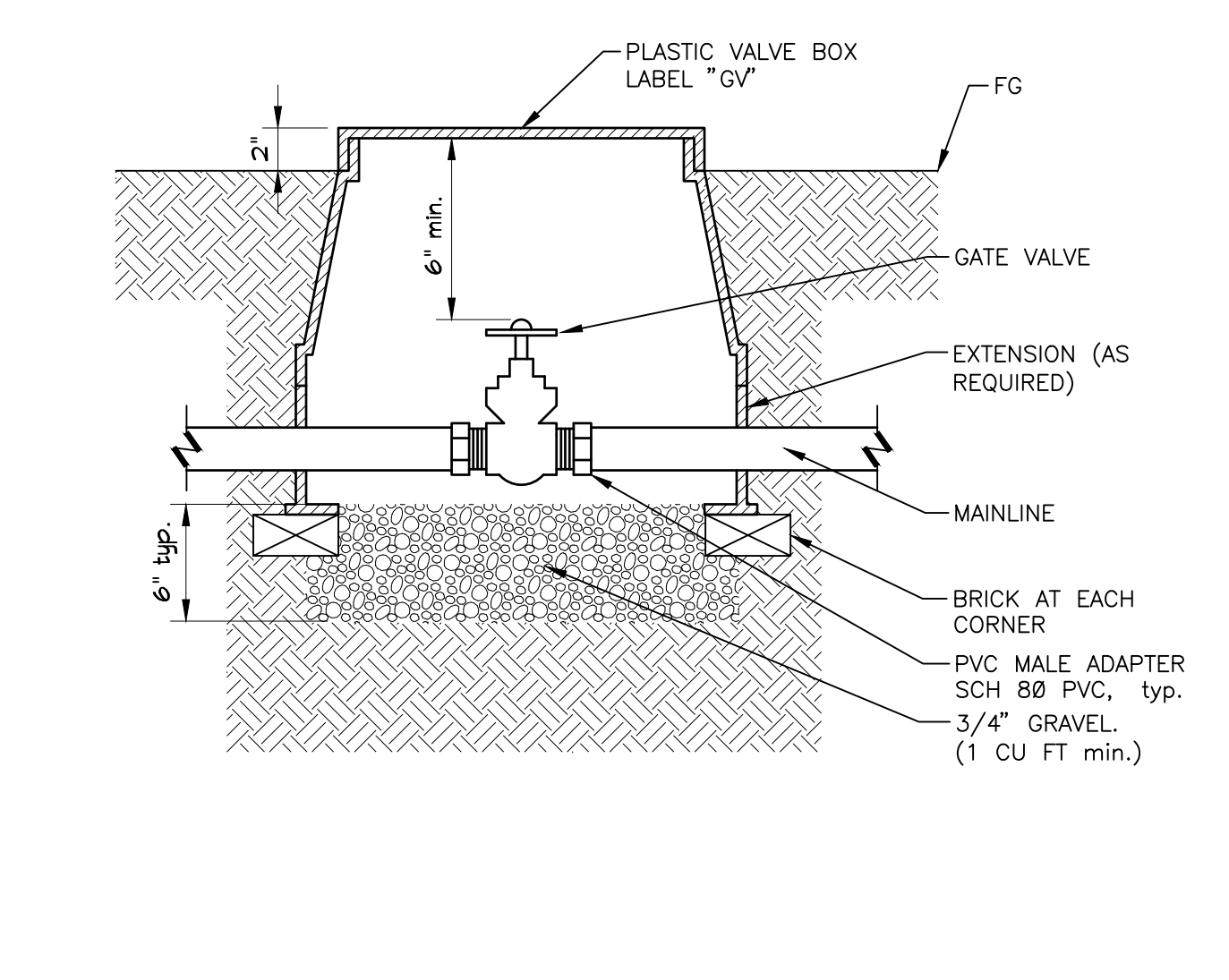
4 BACKFLOW PREVENTER
 3/8" = 1'-0"
 DL-IR-BAC-04



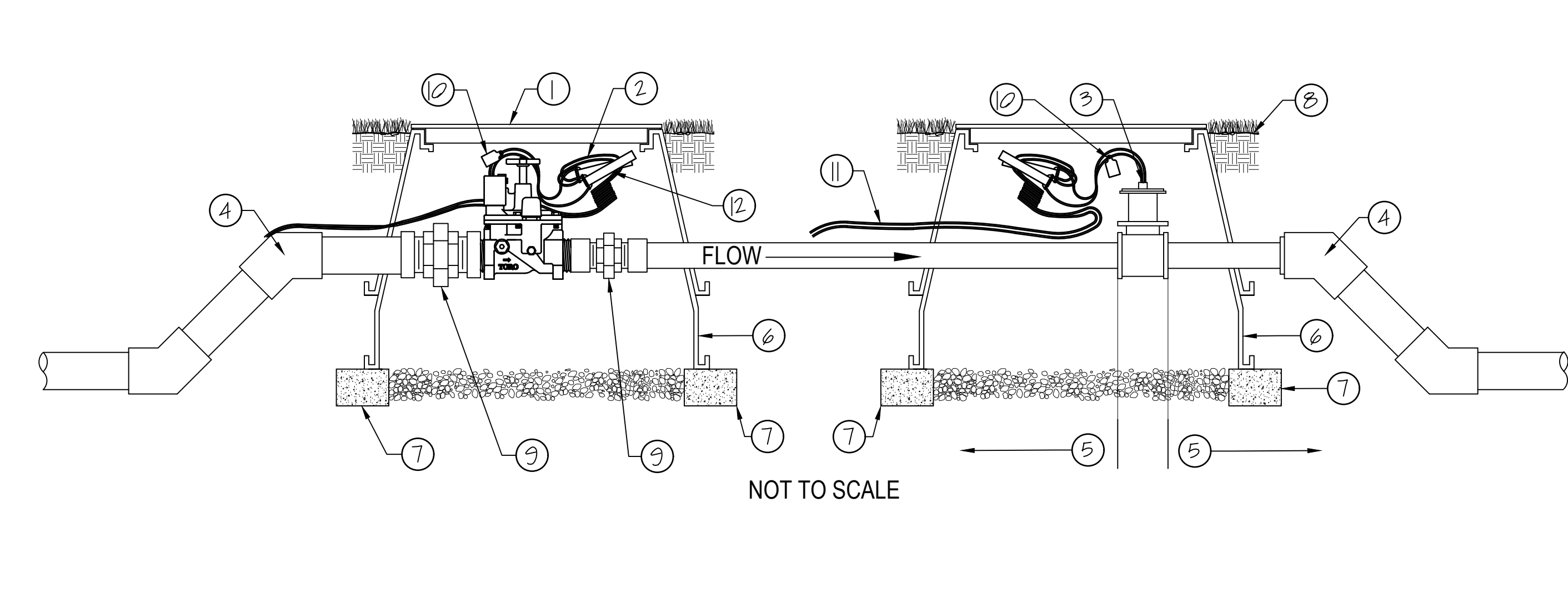
5 BACKFLOW PREVENTER CAGE
 3/4" = 1'-0"
 DL-IR-BAC-01



6 BACKFLOW PREVENTER CAGE
 3/4" = 1'-0"
 DL-IR-BAC-02



7 GATE VALVE
 1 1/2" = 1'-0"
 DL-IR-VAL-09



8 MASTER VALVE - FLOW SENSOR W/ UNION
 1 1/2" = 1'-0"
 DL-IR-SEN-02

- ① VALVE BOX
- ② CONDUCTORS
- ③ FLOW SENSOR
- ④ PVC ELL - 45 DEGREE
- ⑤ MIN. 10 X PIPE DIA. UPSTREAM
MIN. 5 X PIPE DIA. DOWNSTREAM
- ⑥ EXTENSIONS AS NECESSARY
- ⑦ BRICK SUPPORT
- ⑧ VALVE BOX SET 2" ABOVE FG
- ⑨ UNION
- ⑩ IDENTIFICATION TAG
- ⑪ COMMUNICATION CABLE
- ⑫ WATER PROOF SPLICE

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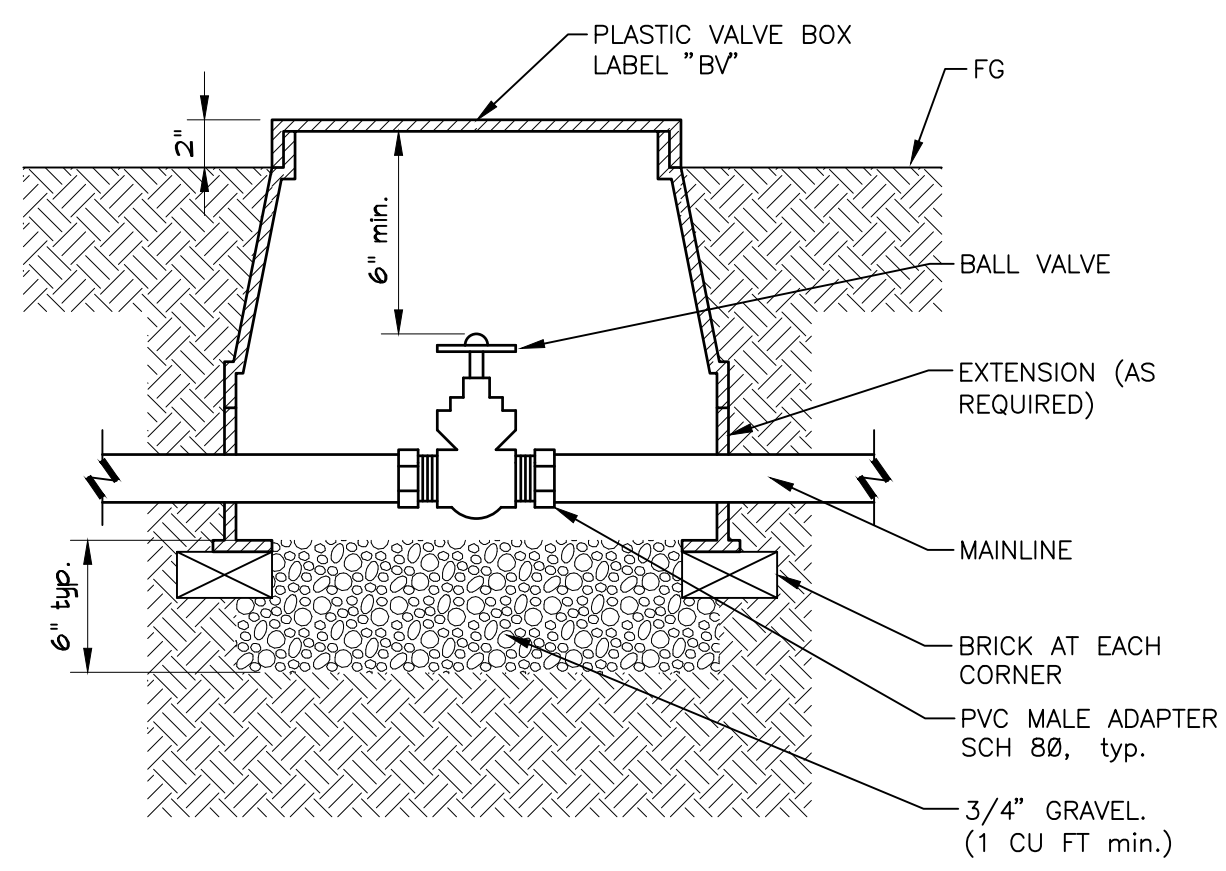
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 Fresno County Department of Public Works
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 C-27818
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Project:
 Sheriff Area 2 Sub-Station
 1120 N. Armstrong Ave., Fresno, CA
 APN: 310-133-04, -05, and -06
 ISSUE DATE: 05.27.2020
 PROJECT NO: 180293 / 19003
 FILE NAME: 20-03-002_L5a

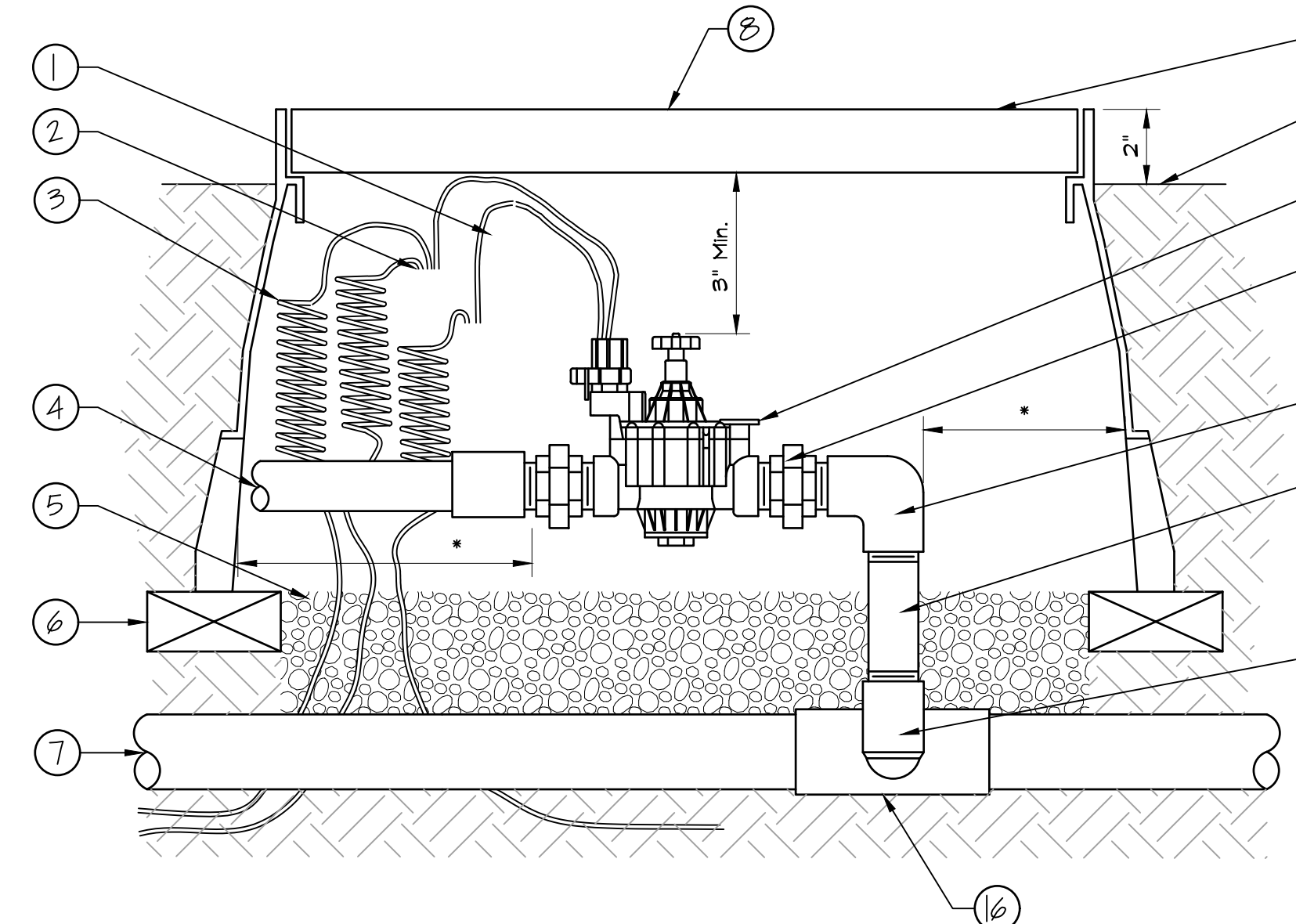
Sheet Content:
 IRRIGATION
 DETAILS

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 Public Works and Planning
 Capital Projects
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 Fresno, California 93721

Sheet No.
 LA-2.3

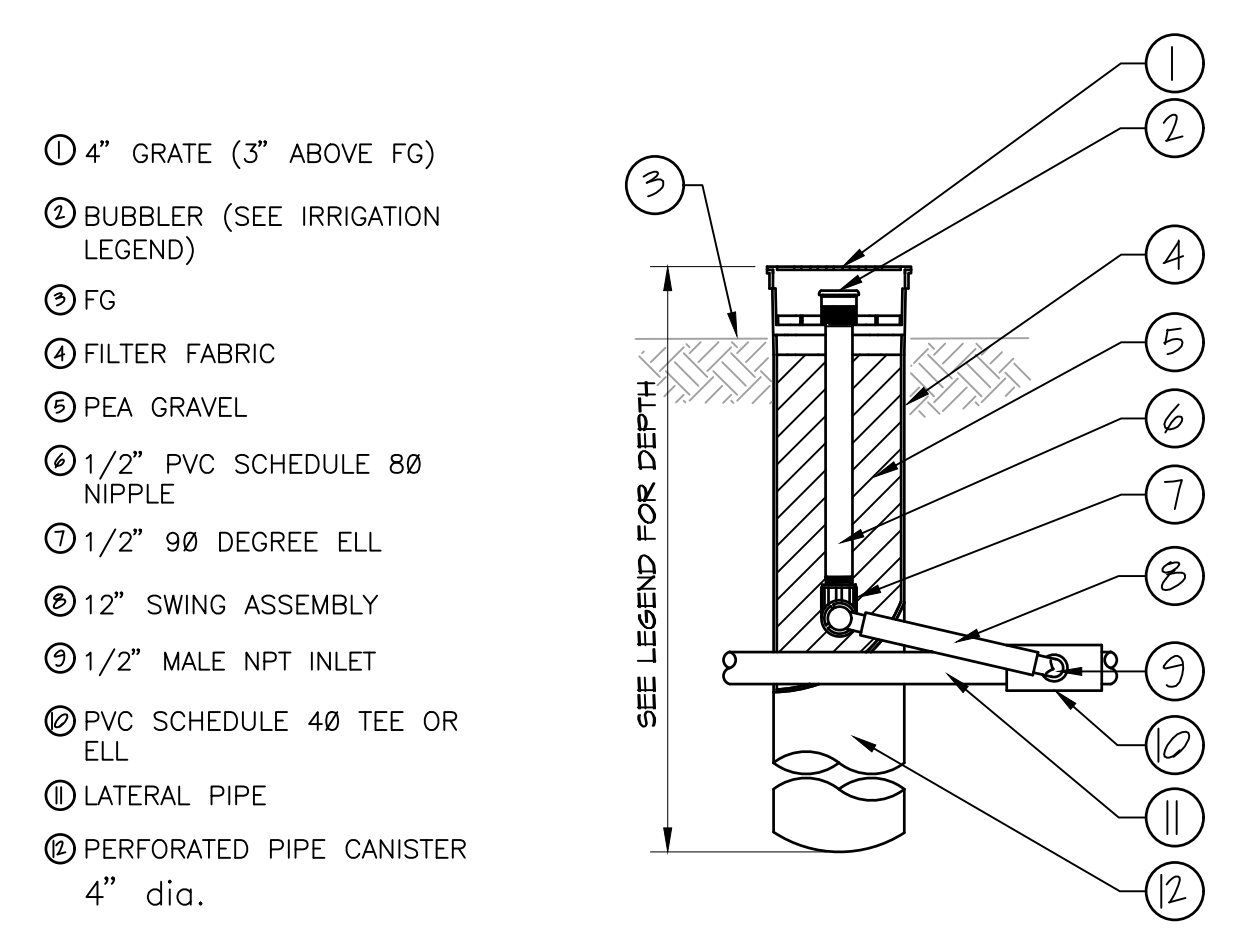


1 BALL VALVE
1 1/2" = 1'-0" DL-IR-VAL-10

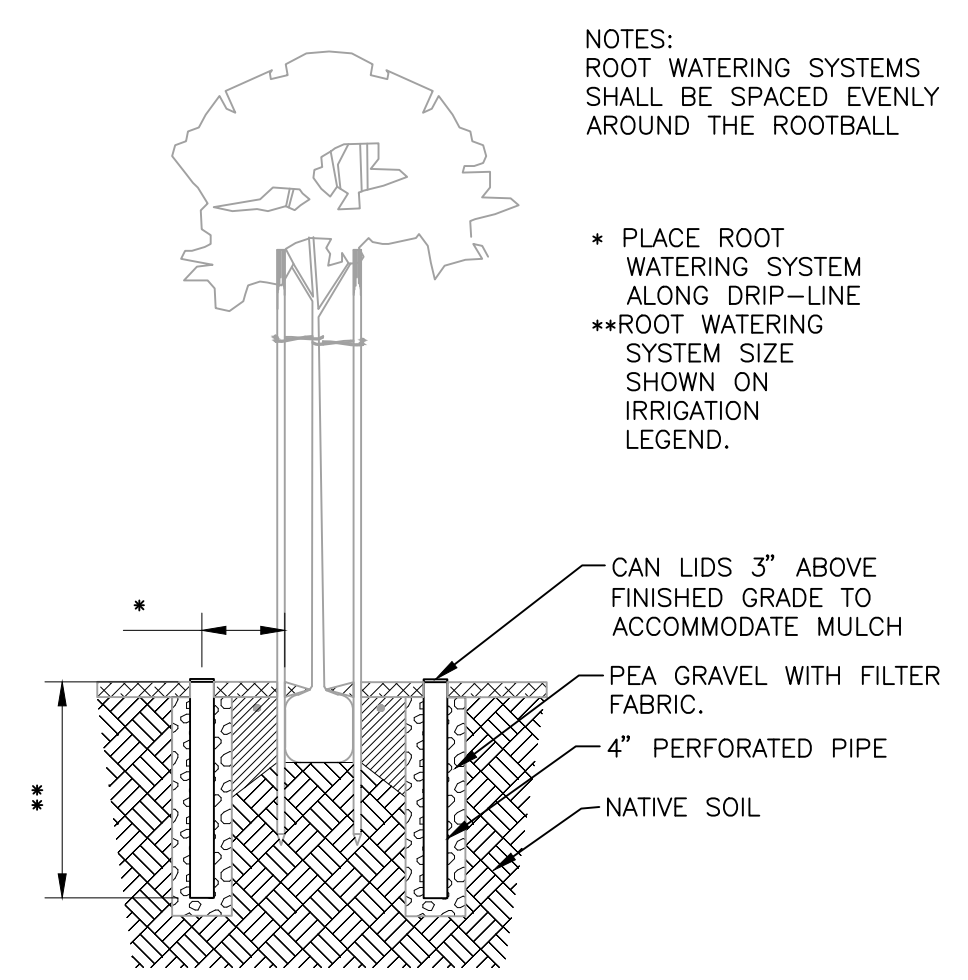


2 REMOTE CONTROL VALVE - GLOBE - W/ UNION
3" = 1'-0" DL-IR-VAL-08

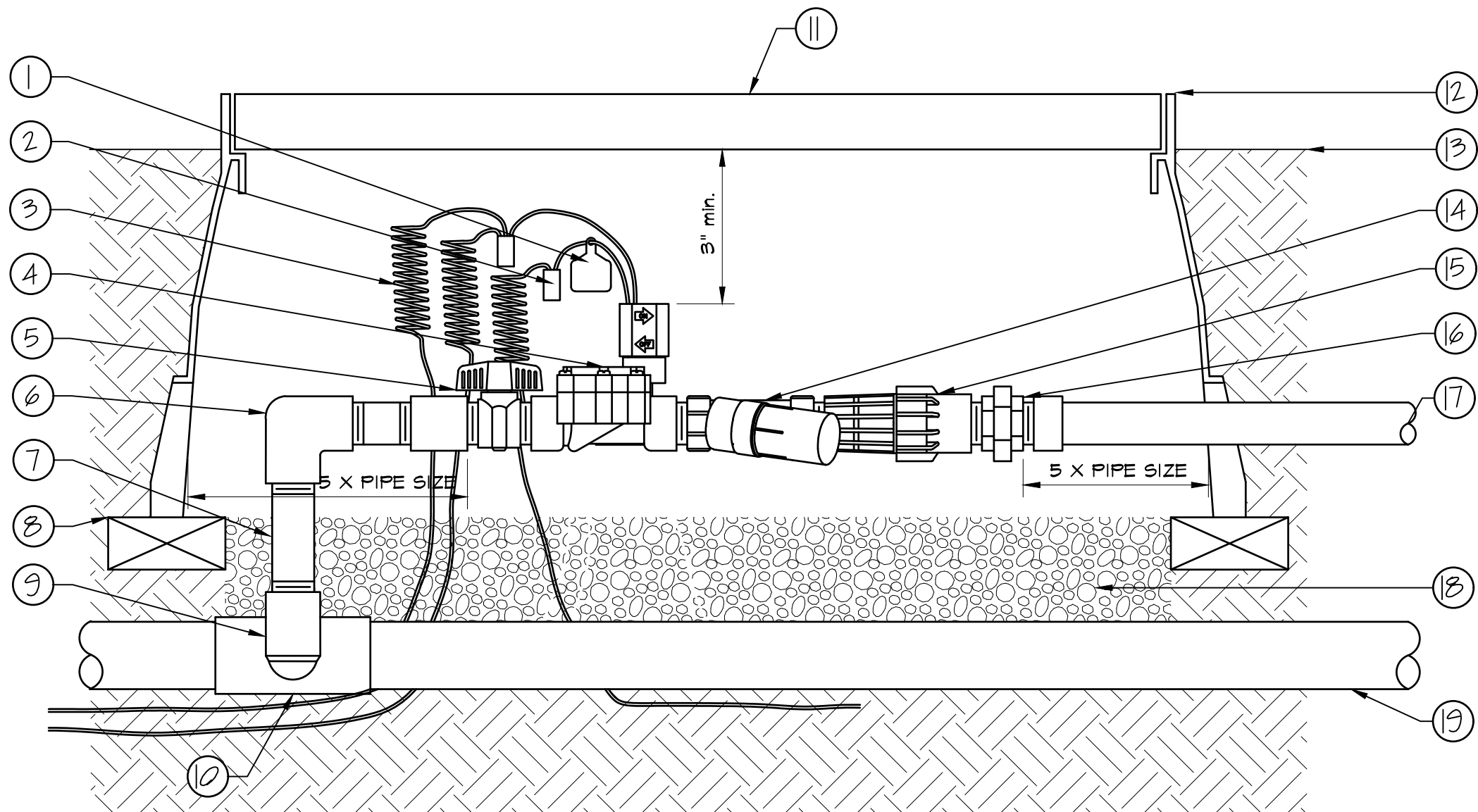
- 1 INTERNAL IDENTIFICATION TAG
 - 2 WATERPROOF CONNECTION
 - 3 30° OF COILED WIRE
 - 4 PVC LATERAL PIPE
 - 5 3" Min. DEPTH OF 3/4" GRAVEL
 - 6 BRICK SUPPORT
 - 7 PVC MAINLINE PIPE
 - 8 VALVE BOX IDENTIFICATION TAG
 - 9 PLASTIC VALVE BOX
 - 10 FG
 - 11 REMOTE CONTROL VALVE
 - 12 UNION
 - 13 PVC SCH 80 ELL
 - 14 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
 - 15 SCH 80 NIPPLE (2" LENGTH, HIDDEN) AND SCH 80 ELL
 - 16 PVC SCH 80 TEE OR ELL
- NOTES:
* 5 X THE DIAMETER OF THE PIPE



3 BUBBLER IN ROOT WATERING SYSTEM
1 1/2" = 1'-0" DL-IR-SPR-DEEP-03

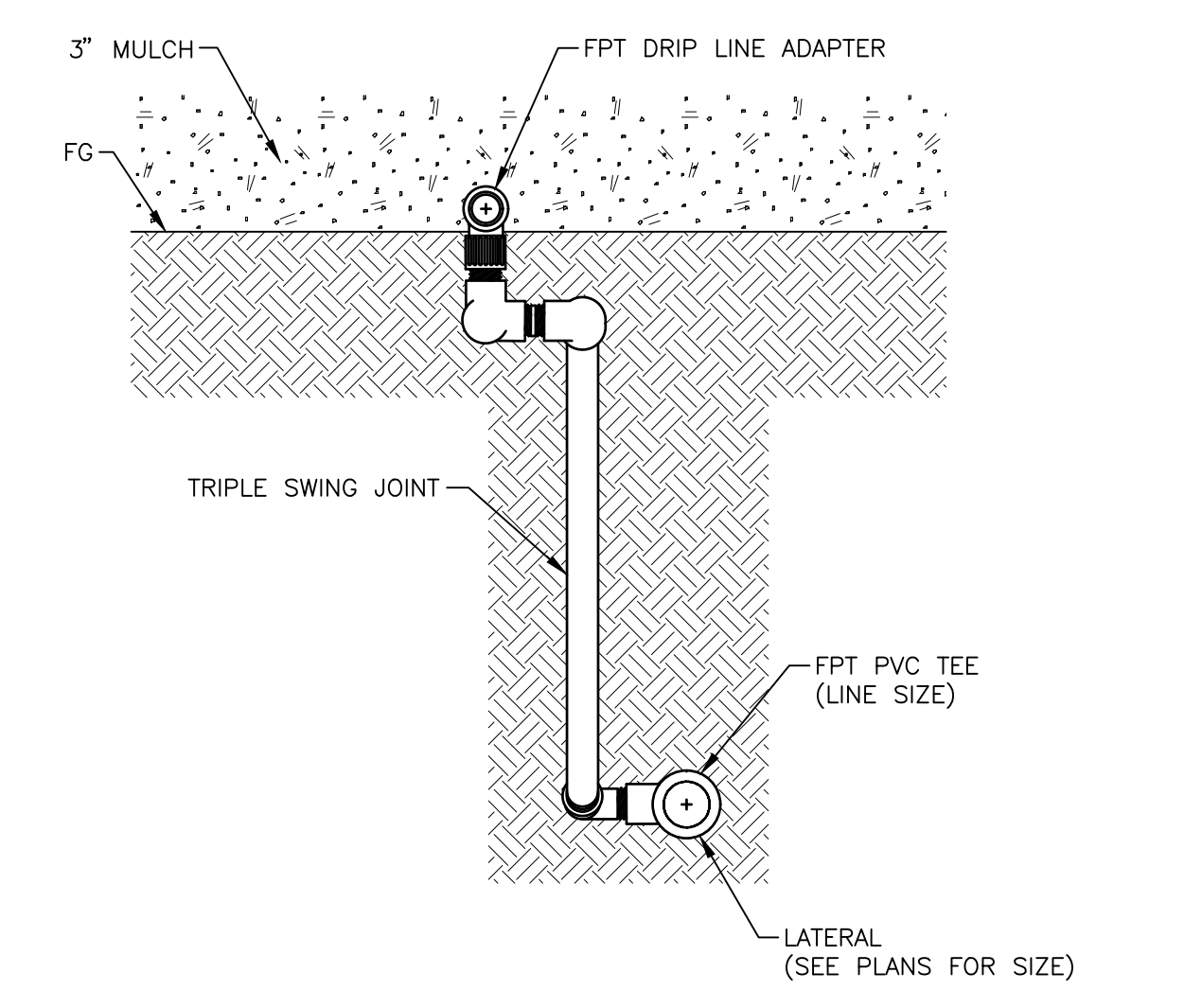


4 ROOT WATERING SYSTEM PLACEMENT
3/8" = 1'-0" DL-IR-SPR-DEEP-06

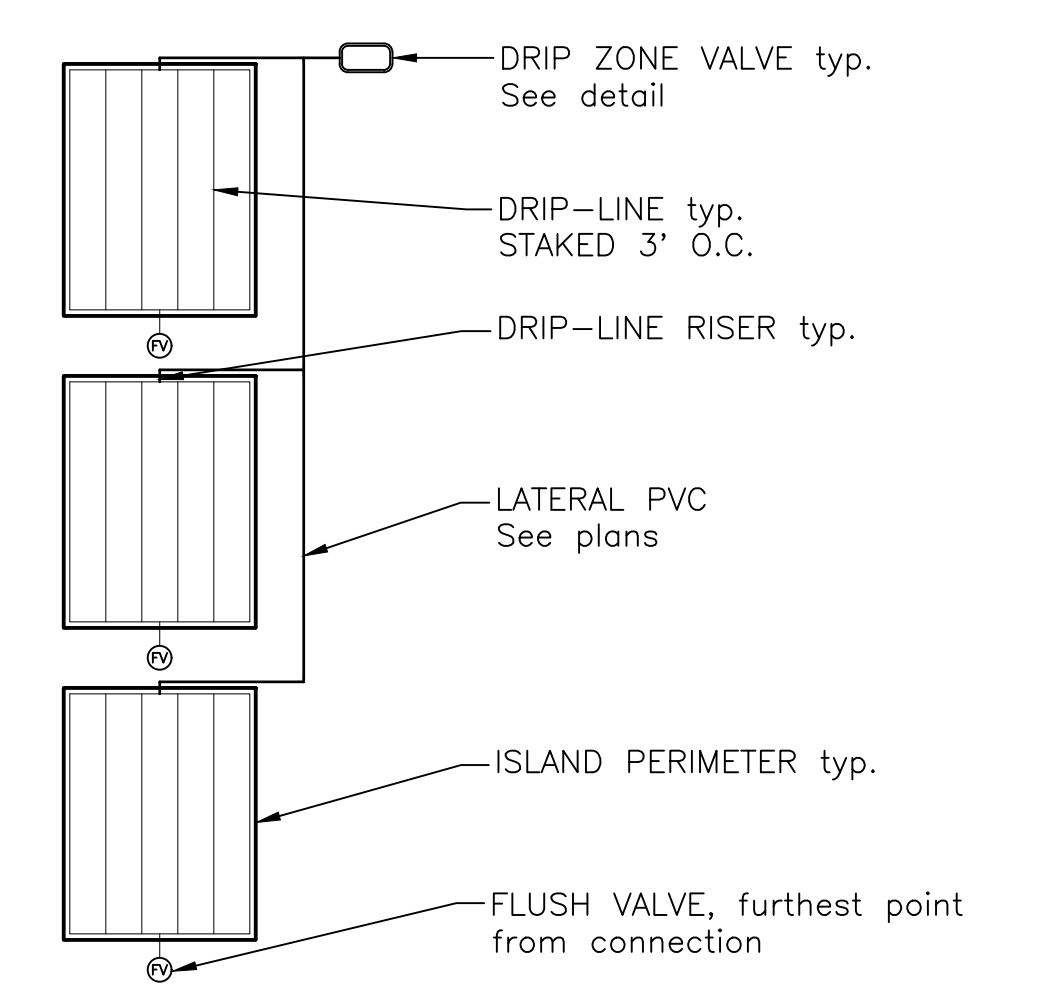


5 DRIP ZONE VALVE
3" = 1'-0" DL-IR-VAL-12

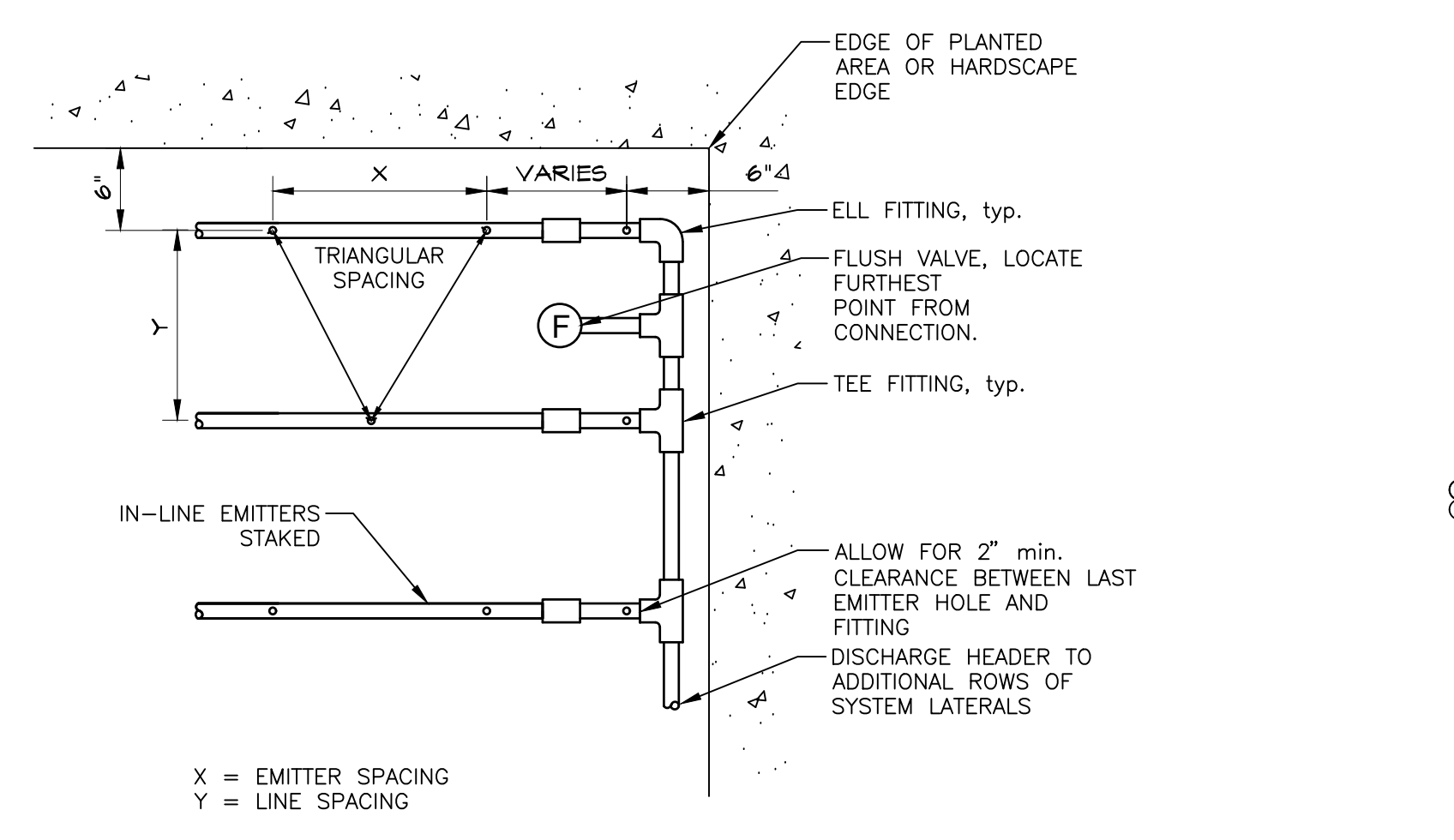
- 1 INTERNAL IDENTIFICATION TAG
- 2 WATERPROOF CONNECTION
- 3 30° OF COILED WIRE
- 4 REMOTE CONTROL VALVE
- 5 BALL VALVE (LINE SIZE)
- 6 SCH 40 ELL
- 7 SCH 80 NIPPLE (LENGTH AS REQUIRED) typ.
- 8 BRICK SUPPORT
- 9 SCH 80 NIPPLE (2" LENGTH, HIDDEN) AND SCH 40 ELL
- 10 SCH 40 TEE OR ELL
- 11 VALVE BOX IDENTIFICATION TAG
- 12 PLASTIC VALVE BOX (2" ABOVE FG)
- 13 FG
- 14 INLINE MESH FILTER (SEE SCHEDULE FOR MESH SIZE)
- 15 PRESSURE REGULATOR
- 16 UNION
- 17 LATERAL TO DRIP
- 18 3/4" GRAVEL, 3" DEPTH MIN.
- 19 MAINLINE



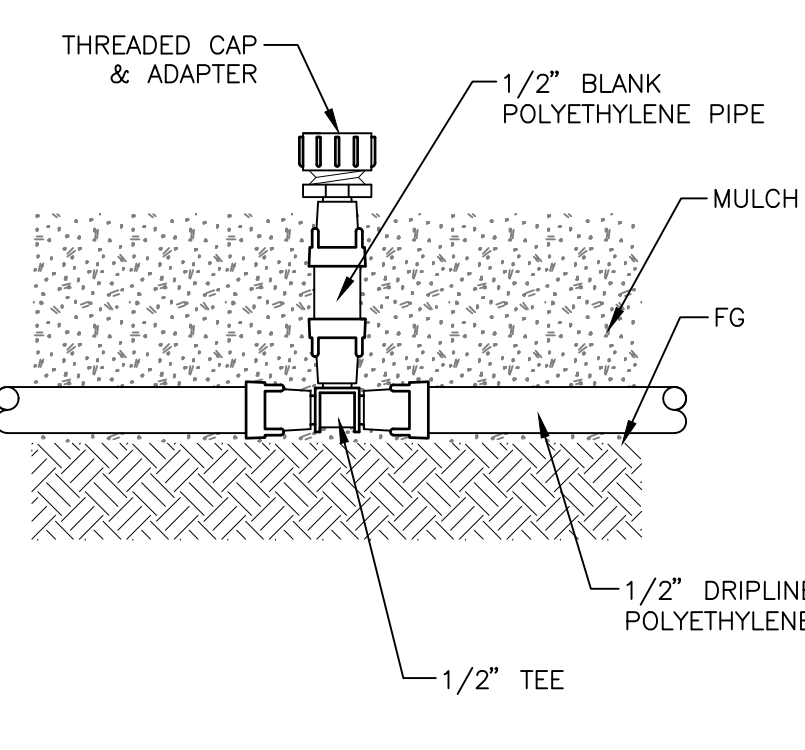
6 DRIP-LINE RISER DETAIL
3" = 1'-0" DL-IR-SPR-DRIP-35



7 DRIPLINE MANIFOLD LAYOUT
1/8" = 1'-0" DL-IR-SPR-DRIP-39



8 DRIPLINE LAYOUT
1" = 1'-0" DL-IR-SPR-DRIP-02



9 FLUSH VALVE - MANUAL - ON GRADE
6" = 1'-0" DL-IR-SPR-DRIP-33

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Sheriff Area 2 Sub-Station
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ISSUE DATE: 05.27.2020
PROJECT NO: 1802293 / 190003
FILE NAME: 20-03-002_L5a

Sheet Content:
IRRIGATION
DETAILS

Fresno County Department of
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Capital Projects

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Fresno, California 93721

Sheet No.
LA-2.4