

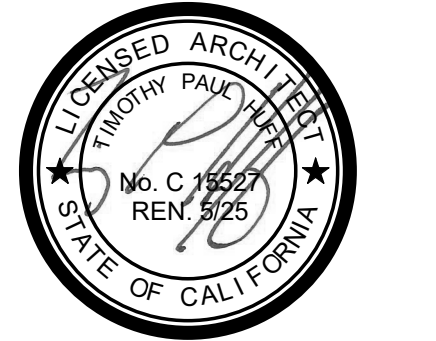
# ROBERTS FERRY ELEMENTARY SCHOOL

## ROBERTS FERRY TK & KG CLASSROOM 72' x 40' RELOCATABLE BUILDING

101 ROBERTS FERRY RD, WATERFORD, CA 95386



**TIMOTHY P. HUFF & ASSOCIATES, INC.**  
Timothy P. Huff, AIA, Architect  
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ABV	ABOVE	LWT	LIGHT WEIGHT
AFF	ABOVE FINISH FLOOR	L	LONGLENGTH
ACC	ACCESSIBLE	LV	LOUVER VENT
ACOUS	ACOUSTICAL	MB	MACHINE BOLT
ADJ	ADJUSTABLE	MH	MAN HOLE
AC	AIR CONDITIONING	MAN	MANUFACTURER
ALT	ALTERNATE	MAS	MASONRY
ALUM	ALUMINUM	MAX	MAXIMUM
AB	ANCHOR BOLT	MECH	MECHANICAL
ANOD	ANODIZED	METAL	METAL
ARCH	ARCHITECT(URAL)	MIN	MINIMUM
AC	ASPHALT CONCRETE	MISC	MISCELLANEOUS
APL	ASSUMED PROPERTY LINE	MTD	MOUNTED
AUTO	AUTOMATIC	(N)	NEW
BM	BEAM	NRC	NOISE REDUCTION COEFF.
BET	BETWEEN	NOM	NOMINAL
BLK	BLOCK	N	NORTH
BLKG	BLOCKING	NIC	NOT IN CONTRACT
BD	BOARD	NTS	NOT TO SCALE
BOT	BOTTOM	NO#	NUMBER
BOB	BOTTOM OF BEAM	OC	ON CENTER
BLDG	BUILDING	OPNG	OPENING
CIP	CAST IN PLACE	OD	OUTSIDE DIAMETER
CB	CATCH BASIN	OI	OVER
CLGK	CAULKING	OFOI	OWNER FURNISHED OWNER INSTALLED
CLG	CEILING	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CJ	CEILING JOIST / CONTROL JOINT		
CEM	CEMENT	PR	PAIR
CL	CHAIN LINK	PTD	PAPER TOWEL DISPENSER
CO	CLEAN OUT	F	FENNY
CLR	CLEAR(ENCE)	d	PERFORATED
COL	COLUMN	PERF	PERFORATED
COMB	COMBINATION	PLYWD	PLYWOOD
CONC	CONCRETE	PT	POINT
CMU	CONCRETE MASONRY UNIT	POC	POINT OF CONNECTION
CONST	CONSTRUCTION	PVC	POLYVINYL CHLORIDE
CONT	COUNTER	PSI	POUNDS PER SQ. INCH
CTSK	COUNTER SINK	PSF	POUNDS PER SQ. FT.
DP	DEEP	PREFAB	PREFABRICATED
D	DEEP (DEPTH)	P.T.	PRESSURE TREATED
DEPT	DEPARTMENT	PTDF	PRESSURE TREATED DOUG. FIR
DTL	DETAIL	PROJ	PROJECT
DIAG	DIAGONAL	P.L.	PROPERTY LINE
DIA	DIAMETER	RAD	RADIUS
DM	DIAMENSION	REF	REFERENCE
DISP	DISPENSER	REFL	REFLECTED
DR	DOOR	REFR	REFRIGERATOR
DBL	DOUBLE	REIN	REINFORCE(ING)
DF	DOUGLAS FIR	REQ	REQUIRED
DN	DOWN	REAR	RETURN AIR
DS	DOWN SPOUT	REV	REVISION(S)/REVISED
DWG	DRAWING	ROW	RIGHT OF WAY
DF	DRINKING FOUNTAIN	R	RISER/RADIUS
EA	EACH	RD	ROOF DRAIN
EW	EACH WAY	RM	ROOM
E	EAST	RO	ROUGH OPENING
EWC	ELECT. WATER COOLER	RB	RUBBER BASE
ELEC	ELECTRICAL	SEC	SECTION
ELEV	ELEVATION	SHT	SHEATHING
EMER	EMERGENCY	SHT	SHEET
ENCL	ENCLOSURE	SM	SHEET METAL
EQ	EQUAL	SM	SIMILAR
EXH	EXHAUST	SD	SOAP DISPENSER
EJ	EXISTING	SC	SOLID CORE
EJ	EXPANSION JOINT	SC	SOUND TRANSMISSION COEFF.
EXP	EXPOSED/EXPANSION	S	SOUTH
EXT	EXTERIOR	SPEC	SPECIFICATION
FOC	FACE OF CONCRETE	SO	SQUARE
FOF	FACE OF FINISH	SF	SQUARE FOOT
FOM	FACE OF MASONRY	SS	STAINLESS STEEL
FOS	FACE OF STUD/STRUCTURE	STD	STANDARD
FIN	FINISH	STL	STEEL
FF	FINISH FLOOR	STOR	STORAGE
FA	FIRE ALARM	STRUCT	STRUCTURE
FE	FIRE EXTINGUISHER	S4S	SURFACE FOUR SIDES
FEC	FIRE EXTINGUISHER CABINET	SUSP	SUSPENDED
FH	FIRE HYDRANT	SAT	SUSPENDED ACOUSTICAL TILE
FLASH	FLASHING	SYM	SYMBOL/SYMMETRICAL
FLR	FLOOR	TB	TACKBOARD
FT	FOOT / FEET	TEL	TELEPHONE
FTG	FOOTING	TV	TELEVISION
FDN	FOUNDATION	THK	THICK
GA	GAGE / GAUGE	THRES	THRESHOLD
GI	GALVANIZED IRON	T&G	TONGUE & GROOVE
GL	GLASS / GLAZING	TOB	TOP OF BEAM
GALV	GALVANIZED	TOC	TOP OF CURB/CONCRETE
GLB	GLUE LAMINATED BEAM	TOP	TOP
GB	GRAB BAR	TOP OF PLATE/PARAPET/PAVEMENT	
GND	GROUND	TOP OF SHEATHING/STEEL/SLAB	
GYP	GYPSPUM	TOS	TOP OF WALK/WALL
GYPBD	GYPSPUM BOARD	T	TREAD
HDW	HARDWARE	TYP	TYPICAL
HDR	HEADER	UNO	UNLESS NOTED OTHERWISE
HVAC	HEATING/VENTILATING/AIR CONDITION	UR	URINAL
HT	HEIGHT	VERT	VERTICAL
H	HIGH	VCT	VINYL COMPOSITION TILE
HC	HOLLOW CORE	WSTC	WAINSCOT
HM	HOLLOW METAL	WC	WATER CLOSET
HSS	HOLLOW STRUCTURAL SECTION	WH	WATER HEATER
HORIZ	HORIZONTAL	WP	WATER PROOFING
HB	HOSE BIB	WR	WATER RESISTANCE
HR	HOSE	WT	WEIGHT
IN	INCH	WWF	WELDED WIRE FABRIC
ID	INSIDE DIAMETER	W	WEST/WIDTHWIDE
INSUL	INSULATION	WDW	WINDOW
INT	INTERIOR	WI	WITH
LAB	LABORATORY	W/O	WITHOUT
LAM	LAMINATED(D)	WD	WOOD
LAV	LAVATORY	WWM	WOVEN WIRE MESH
LT	LIGHT	WI	WROUGHT IRON

### GENERAL NOTES

01. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK (SECTION 4-317(C), PART 1, TITLE 24, CCR). SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS CONSTRUCTION CHANGE DOCUMENTS (CCDS) AND SHALL BE APPROVED PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 338(g) PART 1, TITLE 24 CCR.

02. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE OWNER, ARCHITECT, AND DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

03. THE LOCATION AND STORAGE OF CONSTRUCTION MATERIALS AND THE EFFECTS ON EXISTING OCCUPIED BUILDINGS SHALL BE APPROVED BY THE LOCAL FIRE DEPARTMENT.

04. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED PER THE PROJECT MANUAL UNDER TEMPORARY FACILITIES.

05. ALL PENETRATIONS IN FIRE RATED ASSEMBLIES SHALL BE PROTECTED IN ACCORDANCE WITH C.B.C. CHAPTER 7.

06. TESTING OF MATERIALS SHALL BE CONDUCTED BY A TESTING LAB SELECTED BY THE OWNER & APPROVED BY THE ARCHITECT AND DSA. THE OWNER SHALL PAY FOR TESTING OF MATERIALS IN ACCORDANCE WITH SECTION 01410.

07. A "DSA CERTIFIED" PROJECT INSPECTOR (IN-PLANT; RBIP OR CLASS 1, SITE; CLASS 4) EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE ARCHITECT AND DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

08. A COPY OF TITLE 24 SHALL BE KEPT AVAILABLE IN THE FIELD BY THE INSPECTOR AND THE CONTRACTOR DURING CONSTRUCTION.

09. ALL ITEMS ARE TO BE CONSIDERED NEW UNLESS IDENTIFIED AS (E) OR EXISTING.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING AN UNDERGROUND UTILITY LOCATING SERVICE AND WILL BE RESPONSIBLE FOR REPAIRS TO ANY AND ALL UNDERGROUND UTILITIES DAMAGED IN THE TRENCHING AND/OR HORIZONTAL BORING AT THE SITE THE FIELD BY THE INSPECTOR.

11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE TO BECOME FAMILIAR WITH THE PROJECT AREA AND SITE CONDITIONS.

12. THE CONTRACTOR SHALL ADVISE THE OWNER AND ARCHITECT OF THE SCHEDULE AND COORDINATE WORK AS SO TO HAVE THE LEAST POSSIBLE IMPACT ON THE OWNERS OPERATIONS.

13. EXISTING IMPROVEMENTS AND UTILITIES DAMAGED DURING THE COURSE OF THE WORK SHALL BE PROMPTLY REPAIRED. EXISTING IMPROVEMENTS AND UTILITIES DAMAGED, FOR WHICH LOCATIONS WERE UNKNOWN, SHALL BE IMMEDIATELY BROUGHT TO THE ARCHITECT'S ATTENTION AND PROMPTLY REPAIRED AT HIS DIRECTION. THE WORK REQUIRED TO REPAIR DAMAGED EXISTING WILL BE REVIEWED AND TAKEN UNDER CONSIDERATION AS EXTRA WORK.

14. THE CONTRACTOR WILL VERIFY EXACT CONDITIONS AND DIMENSIONS IN THE FIELD.

15. ADEQUATELY PROTECT ALL PERSONNEL AND THE PUBLIC FROM HARM AND ACCIDENT DURING WORK OF THIS PROJECT, BY THE ERECTION OF PROPER BARRICADES, SIGNAGE AND LIGHTING AS MAY BE NECESSARY. ADEQUATELY PROTECT ALL EXISTING BUILDINGS AND SURFACES ADJACENT TO THE WORK OF THIS PROJECT FROM DAMAGE.

16. NO INTERFERENCE OF THE USE OF FIRE LANES OR PUBLIC EGRESS AT ANY TIME SHALL BE ALLOWED UNLESS OTHERWISE AUTHORIZED IN THESE DOCUMENTS OR IN WRITING.

17. ALL RUBBISH AND DEBRIS SHALL BE LEGALLY DISPOSED OF OFF THE SITE BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN THE PREMISES FREE OF ACCUMULATED WASTE AND MATERIALS CAUSED BY CONTRACTORS, EMPLOYEES OR WORK, OR THE EMPLOYEES OR WORK OF THE SUBCONTRACTORS.

18. NO MATERIAL OR EQUIPMENT SHALL BE LEFT ON THE PROJECT SITE OVERNIGHT UNSECURED.

19. IN ACCORDANCE WITH THE GENERAL CONDITIONS OF THE CONTRACT, A FULL-TIME SUPERINTENDENT SHALL BE EMPLOYED BY THE CONTRACTOR AND SHALL BE PRESENT AT THE JOB SITE WHILE WORK IS BEING PERFORMED.

20. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR EXISTING CONCRETE WALKS, LANDSCAPING, IRRIGATION SYSTEMS, ETC. WHICH MAY BE DAMAGED BY THE WORK OF THIS PROJECT, IF DAMAGE OCCURS, CONTRACTOR MUST REPAIR.

21. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

22. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

### GENERAL DEMOLITION NOTES

01. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CORRECTION. CLARIFICATION PRIOR TO EXECUTION OF THE WORK.

02. DETAILING, MATERIALS & FINISHES ARE TYPICAL FOR ALL SIMILAR CONDITIONS.

03. THE INTENT OF THE DEMOLITION PLANS IS TO DESCRIBE THE GENERAL SCOPE OF THE DEMOLITION WORK BUT DOES NOT NECESSARILY DEPICT ALL ITEMS / CONDITIONS REQUIRED TO COMPLETE THE RELEVANT WORK AS INDICATED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR AND ANY RELEVANT SUB-CONTRACTOR SHALL PERFORM A THOROUGH SITE INVESTIGATION PRIOR TO BIDDING AND/OR COMMENCING WITH THE WORK.

04. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING ALL RELATED FEES FOR A DEMOLITION PERMIT FROM AIR POLLUTION CONTROL DISTRICT AND IS TO COMPLY WITH ALL REQUIREMENTS INCLUDING NOTIFICATIONS.

### GENERAL NOTES

WIND DESIGN EXPOSURE	C	SEISMIC DESIGN SITE CLASS	D
BASIC WIND SPEED	95 MPH	RISK CATAGORY	II
RISK CATAGORY	95	S <sub>s</sub>	0.477
		S <sub>1</sub>	0.215
		S <sub>2</sub>	0.454
		SD <sub>1</sub>	0.283
		SD <sub>2</sub>	
CLIMATE ZONE	12		

PER 2022 CA ENERGY CODE SECTION 140.10, PRESCRIPTIVE REQUIREMENTS FOR PHOTOVOLTAIC AND BATTERY STORAGE SYSTEMS, EXEMPTION #2: "NO PV SYSTEM IS REQUIRED WHERE THE REQUIRED PV SYSTEM SIZE IS LESS THAN 4KWDC." THIS BUILDING: 2252 SF OF CONDITIONED FLOOR AREA X 1.63 (W/SF FOR OUR ZONE) = 3.67KWDC < 4KW DC. SO NO PV INSTALLED ON THIS PROJECT.

CS COVER SHEET  
FGA FIRE, GATES AND ACCESS PLAN

### SHEETS - ARCHITECTURAL

AS1.1 DEMO SITE PLAN  
AS1.2 SITE PLAN  
AS1.3 PARTIAL ENLARGED SITE PLAN, DETAILS  
AS1.4 SITE UTILITY PLANS  
AP1.1 FLOOR PLAN  
AP1.2 REFLECTED CEILING PLAN AND PLUMBING PLAN  
AD.1 DETAILS  
CO1.1 CLOSEOUT REQUIREMENTS  
CO1.2 CLOSEOUT REQUIREMENTS

### SHEETS - ELECTRICAL

ES0.1 GENERAL NOTES, LEGEND, STRUCTURAL SAFETY NOTES  
ES0.2 ELECTRICAL CONSTRUCTION DETAILS  
ES0.3 FIRE ALARM DETAILS  
ES1.0 ELECTRICAL PLAN  
ES1.1 ENLARGED ELECTRICAL PLANS  
ET24 EXTERIOR LIGHTING COMPLIANCE  
ET24B SOLAR COMPLIANCE  
ET24.1 ENERGY COMPLIANCE

### SHEET INDEX

TOTAL SHEETS = 59

### APPLICABLE CODES

TITLE 19 CCR	PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
TITLE 24 CCR	PART 1 - 2022 BUILDING STANDARDS ADMINISTRATIVE CODE
TITLE 24 CCR	PART 2 - 2022 CALIFORNIA BUILDING CODE, VOL. 1 & 2 (CBC) (2021 IBC, AS AMENDED BY CA.)
TITLE 24 CCR	PART 3 - 2022 CALIFORNIA ELECTRICAL CODE (CEC) (2020 NEC, AS AMENDED BY CA.)
TITLE 24 CCR	PART 4 - 2022 CALIFORNIA MECHANICAL CODE (CMC) (2021 IAPMO UMC, AS AMENDED BY CA.)
TITLE 24 CCR	PART 5 - 2022 CALIFORNIA PLUMBING CODE (CPC) (2021 IAPMO UPC, AS AMENDED BY CA.)
TITLE 24 CCR	PART 6 - 2022 CALIFORNIA ENERGY CODE
TITLE 24 CCR	PART 9 - 2022 CALIFORNIA FIRE CODE (CFC) (2021 IFC, AS AMENDED BY CA.)
TITLE 24 CCR	PART 11 - 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
TITLE 24 CCR	PART 12 - 2021 REFERENCED STANDARDS

APPLICABLE STANDARDS FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.  
FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION SHALL COMPLY WITH CFC CH 33

### VENDOR: ENVIROPLEX

72x40 CLASSROOM

PC#: 02-121248  
THESE DRAWINGS AND / OR SPECIFICATIONS AND CALCULATIONS FOR THE ITEM LISTED BELOW HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE HAVE BEEN FOUND TO MEET THE APPLICABLE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.  
THE ITEMS LISTED BELOW ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE (OR WHICH I HAVE BEEN DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK)

### ENVIROPLEX

#### SHEET INDEX:

A0	COVER SHEET, BUILDING CODES & CBC DATA, SHEET INDEX
A0.1	GENERAL NOTES, TEST & INSPECTION GUIDELINE
A1.0	FLOOR PLAN OPTIONS
A1.01	TOILET ROOMS - ADULT USE
A1.02	TOILET ROOMS - AGES 3-4
A1.05	TOILET ROOM WALL BASE & MISC. DETAILS
A1N	MATERIAL SPECIFICATIONS & NOTES
A1.1	BI-PITCHED ROOF PLAN & EXTERIOR ELEVATIONS
A1R	ROOFING ATTACHMENT
A2.0	HVAC EQUIPMENT & NOTES
A2B	ROOF MOUNT HVAC UNIT MECHANICAL & REFLECTED CEILING PLANS, HVAC ROOF ATTACH., DETAILS, HVAC SPECS.
AGB	GREEN BUILDING STANDARDS AND SOLAR READY REQUIREMENTS
EN3	ENERGY COMPLIANCE
EN4	ENERGY COMPLIANCE
EN5	ENERGY COMPLIANCE
EN6	ENERGY COMPLIANCE
EN7	ENERGY COMPLIANCE
EN8	ENERGY COMPLIANCE
A3	ELECTRICAL POWER PLAN, SIGNAL PLAN, DETAILS, ELECTRICAL NOTES
A3.1	LIGHTING PLAN, NOTES
A3.10	ELECTRICAL & LIGHTING PLANS FOR TOILET ROOM OPTIONS
A4.4.R	BI-PITCHED ROOF SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)
A4B	STUCCO MATERIAL SPECIFICATIONS
A4B.1	TYPICAL STUCCO FINISH DETAILS
A4H	INTERIOR WALL CONNECTION DETAILS
A5	MISCELLANEOUS DETAILS
A6.2	DETERIORATION PROTECTION (2x6 OR 2x8 EXT. WALLS) (WOOD FLOORS) (BUILDING OVER 2160 S.F.)
S1	FOOTING DETAILS, NOTES
S1C	CONCRETE FOUNDATION PLAN, FOOTING DETAILS & NOTES (WOOD FLOORS)
S1C.1	VARIABLE FOUNDATION PLAN & ALTERNATE FOOTING DETAILS (WOOD FLOORS)
S1C.2	MISCELLANEOUS FOOTING DETAILS (WOOD FLOORS)
S1CS	CONCRETE FOUNDATION SHIM DETAILS
S2	BI-PITCH ROOF, CEILING, FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES
S3FA	FASTENING SCHEDULE & NOTES
S3	BI-PITCHED ROOF LONG. BUILDING SECTION, WALL FRAMING ELEV. END FRAME ELEVATION
S4	STRUCTURAL CONNECTION DETAILS
S4.1	OPTIONAL STRUCTURAL DETAILS
S4.2	MISCELLANEOUS STRUCTURAL DETAILS
S4.3	METAL SOFFIT PANELS, REMOVABLE CASSETTE
S4.4	METAL SOFFIT PANELS, REMOVABLE CASSETTE W/ WALL MOUNT HVAC UNIT.

SIGNATURE OF ARCHITECT: *T.P. Huff* DATE: 4/10/24  
C15527 LICENSE NUMBER

### DESIGN RESPONSIBILITY

THE SCOPE OF WORK FOR THIS PROJECT INCLUDES BUT IS NOT LIMITED TO:  
• NEW MODULAR (PC #02-121248) 72' x 40' CLASSROOM BUILDING ON CONCRETE FOUNDATION  
• FIRE ALARM IMPROVEMENTS  
• ASSOCIATED SITE WORK INCLUDING UTILITY MODIFICATIONS AS REQUIRED FOR NEW WORK  
• CLOSEOUT AND DSA CERTIFICATION OF BUILDING B DSA 47650.

WORK SHALL INCLUDE THE PREPARATION OF THE SITE TO RECEIVE MODULAR CLASSROOM BUILDING TO BE CONSTRUCTED, DELIVERED AND INSTALLED BY VENDOR. ALL ASSOCIATED SITE WORK REQUIRED AND SHOWN ON THESE DRAWINGS SHALL ALSO BE INCLUDED.

SITE WORK, WHICH IS TO BE COMPLETED PRIOR TO DELIVERY, IS TO INCLUDE CLEARING OF THE PROJECT AREA AND INSTALLATION OF ALL UNDERGROUND UTILITIES AND OTHER RELATED PREPARATIONS.

THE BUILDING SHALL BE INSTALLED BY THE VENDOR AFTER SITE AND FOUNDATION PREPARATIONS ARE MADE BY THE GENERAL CONTRACTOR. PREPARATIONS ARE TO INCLUDE: FOUNDATION PAD EXCAVATION AND PREPARATION AS REQUIRED FOR UNDER FLOOR CLEARANCES SHOWN. EXCAVATION SHALL EXTEND 5'-0" MIN. BEYOND THE PERIMETER OF THE BUILDING. WORK SHALL ALSO INCLUDE: BACKFILL, COMPACTION AND REMOVAL OF ALL SPOILS FROM THE SITE.

THE CONTRACT SHALL INCLUDE CONNECTION OF THE SITE UTILITIES TO THE BUILDING AND ALL WORK ADJACENT TO AND IN THE BUILDING AFTER THE INSTALLATION OF THE BUILDINGS. THIS INCLUDES DISINFECTING AND TESTING OF DOMESTIC WATER AFTER BUILDING HAS BEEN INSTALLED.

(SEE ARCHITECTURAL, VENDOR AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR FULL SCOPE OF WORK)

DEFERRED APPROVALS: NONE

### CLIENT

**ROBERTS FERRY UNION ELEMENTARY S.D.**  
BOB LORETELLO, SUPERINTENDENT  
101 ROBERTS FERRY ROAD  
WATERFORD, CA 95386  
PH: (209) 874-2331  
FAX: (209) 874-4625

### ARCHITECT

**TIMOTHY P. HUFF & ASSOCIATES, INC.**  
DBA: TPH ARCHITECTS  
TIMOTHY P. HUFF, AIA, PRINCIPAL ARCHITECT  
519 MCHENRY AVENUE  
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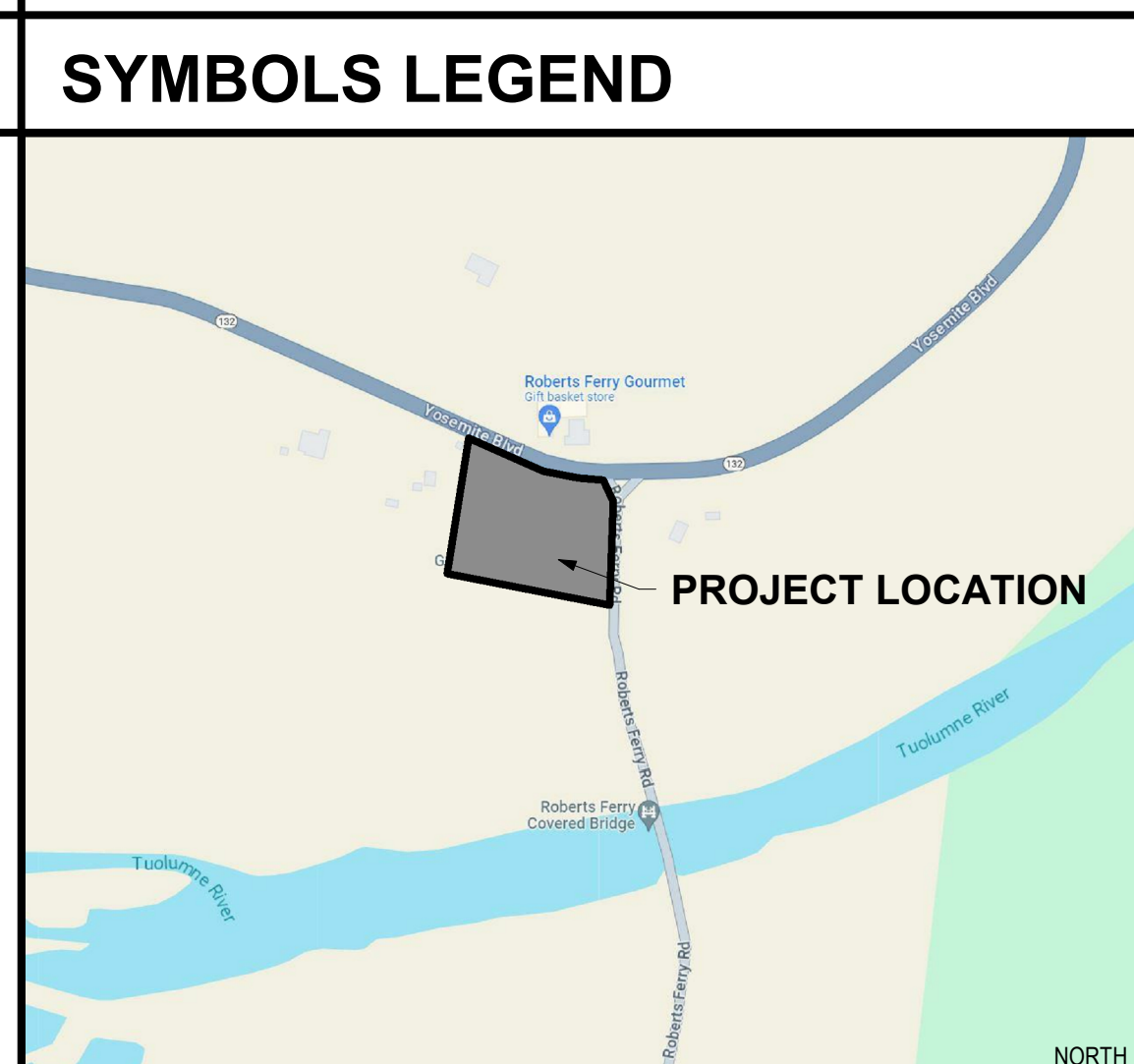
### ELECTRICAL ENGINEER:

**HCS ENGINEERING, INC.**  
RICHARD SMITH, E.E.  
4651 QUAIL LAKES DRIVE  
STOCKTON, CA 95207  
PH: (209) 478-8270  
FAX: (209) 478-2169

### PROJECT TEAM

Consultants

DETAIL NUMBER	1-1	DETAIL CALLOUT	ROOM TAG
SHEET LOCATION	A101		KEYNOTES
			WINDOW TAG
SECTION NUMBER	1-1	BUILDING SECTION CUT	DOOR TAG
SHEET LOCATION	A101		CASEWORK TAG - INDICATES W/ DESIGN SERIES
SHEET LOCATION	1		NORTH
ELEVATION #	A01.1	INTERIOR ELEVATION TAG	NORTH ARROW



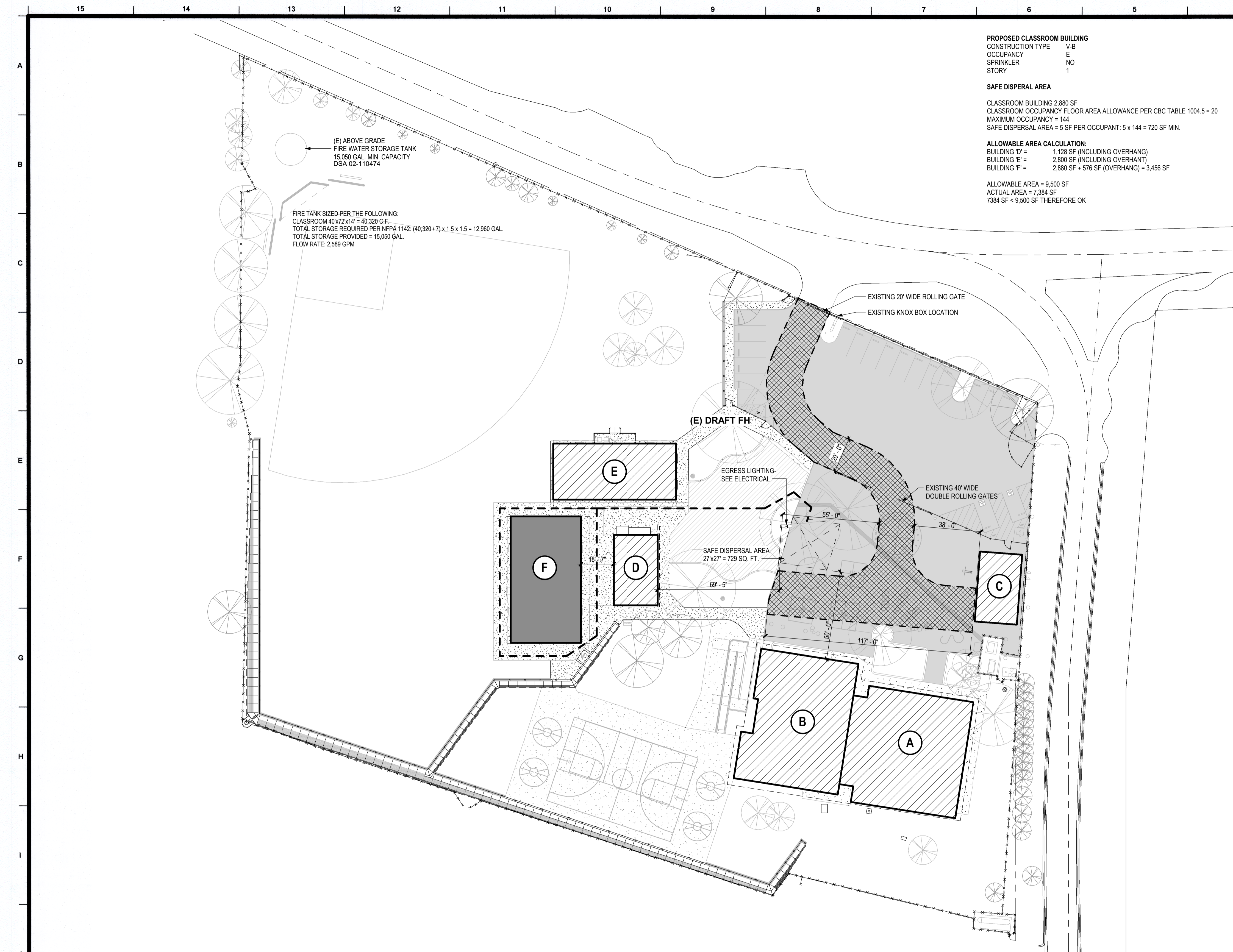
### ROBERTS FERRY TK & KG CLASSROOM

101 ROBERTS FERRY RD, WATERFORD, CA 95386  
ROBERT FERRY SCHOOL DISTRICT  
COVER SHEET

Project Number	2326
Date	OCT 2023
Drawn by	Author
Checked by	Checker

# CS

Plot Date & Time 4/9/2024 4:27:52 PM



**PROPOSED CLASSROOM BUILDING**  
 CONSTRUCTION TYPE V-B  
 OCCUPANCY E  
 SPRINKLER NO  
 STORY 1

**SAFE DISPERSAL AREA**  
 CLASSROOM BUILDING 2,800 SF  
 CLASSROOM OCCUPANCY FLOOR AREA ALLOWANCE PER CBC TABLE 1004.5 = 20  
 MAXIMUM OCCUPANCY = 144  
 SAFE DISPERSAL AREA = 5 SF PER OCCUPANT: 5 x 144 = 720 SF MIN.

**ALLOWABLE AREA CALCULATION:**  
 BUILDING D' = 1,128 SF (INCLUDING OVERHANG)  
 BUILDING E' = 2,800 SF (INCLUDING OVERHANG)  
 BUILDING F' = 2,800 SF + 576 SF (OVERHANG) = 3,456 SF

**ALLOWABLE AREA = 9,500 SF**  
**ACTUAL AREA = 7,384 SF**  
 7384 SF < 9,500 SF THEREFORE OK

(E) ABOVE GRADE FIRE WATER STORAGE TANK  
 15,000 GAL. MIN. CAPACITY  
 DSA 02-110474

FIRE TANK SIZED PER THE FOLLOWING:  
 CLASSROOM 40'x72'x14' = 40,320 C.F.  
 TOTAL STORAGE REQUIRED PER NFPA 1142: (40,320 / 7) x 1.5 x 1.5 = 12,960 GAL.  
 TOTAL STORAGE PROVIDED = 15,000 GAL.  
 FLOW RATE: 2,589 GPM

**FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL**

Division of the State Architect (DSA) documents referenced within this publication are available on the **DSA Forms** or **DSA Publications** webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all projects types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for Buildings.

**PROJECT INFORMATION**

School District/Owner: **ROBERT FERRY SCHOOL DISTRICT**

Project Name/School: **ROBERTS FERRY TK & KG CLASSROOM**

Project Address: **101 ROBERTS FERRY RD, WATERFORD, CA 95386**

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**FIRE & LIFE SAFETY INFORMATION**

1. Has a fire hydrant flow test been performed within the past 12 months?  Yes  No  
 (If yes, provide a copy of the test data.)

2. Was the fire hydrant water flow test performed as part of this LFA review?  Yes  No

3. Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.)  Yes  No

Refer to the following website for FHSZ locations: <http://eais.fire.ca.gov/FHSZ/> Moderate  High  Very High

Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.) WIFA

**DSA 810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL**

CONDITION MEANS AND METHODS RESOLUTION	ALTERNATE ACCEPTED			
	Yes	No	N/A	N/R
4. Emergency vehicle access roadways do not meet CFC requirements.				
4a. <b>Acceptable Alternate:</b> Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.	X			
5. Fire Hydrants: Number and spacing does not meet CFC requirements.				
5a. <b>Acceptable Alternate:</b> Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.	X			
6. Fire Hydrants: Water flow and pressure are less than CFC minimum.				
6a. <b>Acceptable Alternate:</b> The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	X			
7. Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				
7a. <b>Acceptable Alternate:</b> The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.	X			

**School District Acceptance of Acceptable Design Alternates**  
 By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: Bob Lorelli Title: Superintendent  
 Signature: [Signature] Date: 10/13/23

**LOCAL FIRE AUTHORITY (LFA) INFORMATION**

LFA Agency Name: **STANISLAUS CONSOLIDATED FIRE**

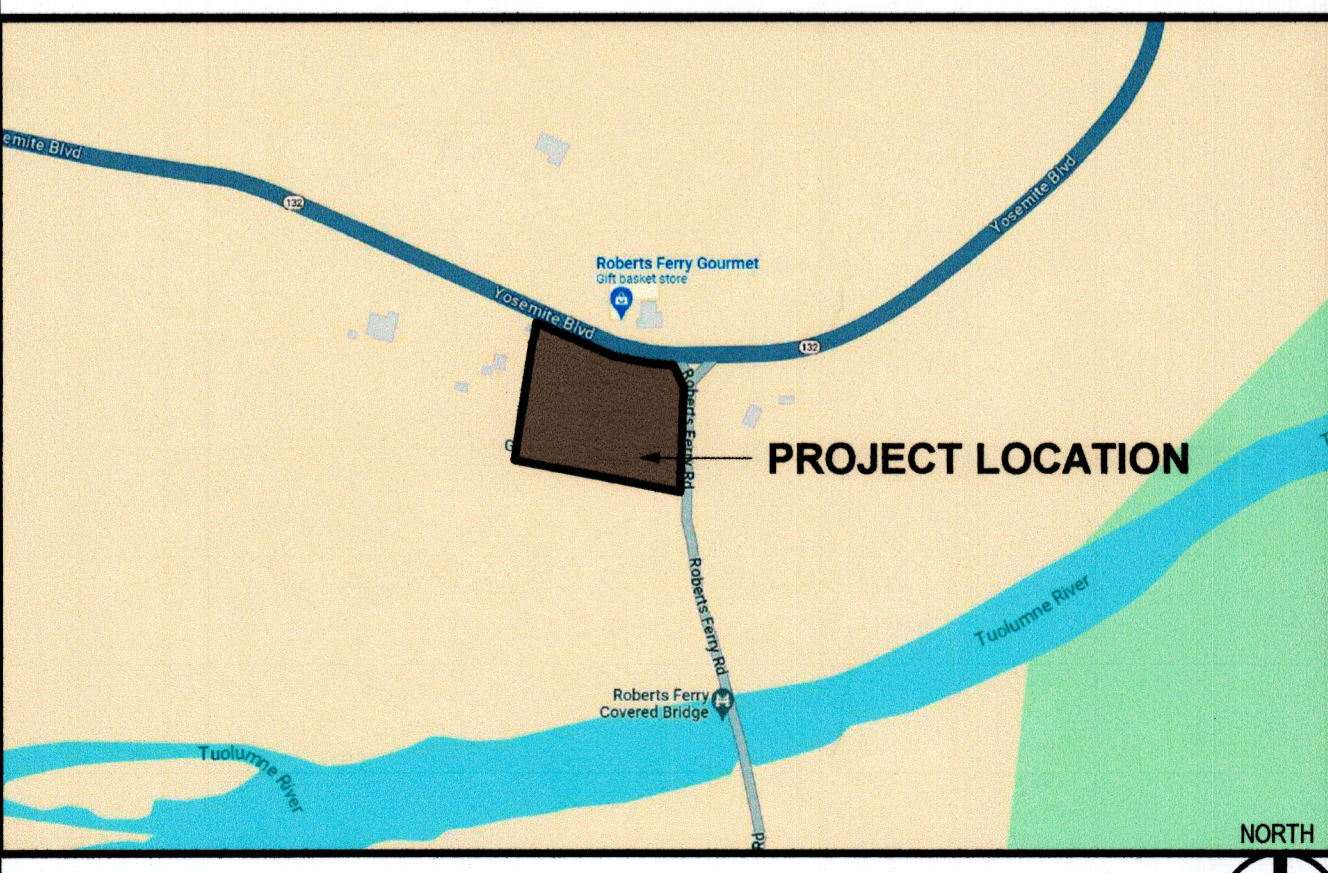
LFA Review Official: Craig Peterson

Title: Fire Prevention Work Phone: 209-469-7470

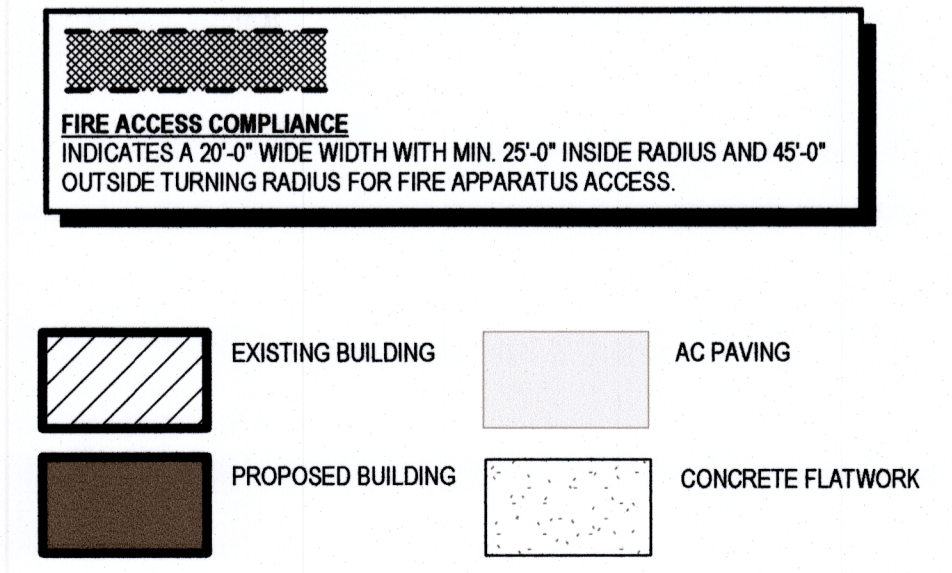
Work Email: fireprevention@scfpd.us

LFA Reviewer's Signature: [Signature] Date: 10/12/23

**LOCAL FIRE AUTHORITY REVIEW**



BUILDING INFORMATION						
ID	BLDG DESCRIPTION	DSA APP	CONSTRUCTION TYPE	OCC	SPRINKLERED	BUILDING & COVERED AREA
A	CLASSROOM	3354/02-110483	V-B	E	NO	4,891 SF
B	ADMIN/ MULT-USE/ CLASSROOM	47650	V-B	E	NO	4,868 SF
C	CLASSROOM	02-117370	V-B	E	NO	960 SF
D	CLASSROOM	02-110474	V-B	E	NO	1,128 SF
E	LIBRARY/ CLASSROOM	02-110474	V-B	B/E	NO	2,800 SF
F	CLASSROOM	THIS APP	V-B	E	NO	3,456 SF



**1 FIRE GATES AND ACCESS PLAN**  
 SCALE: 1" = 30'-0"

**BUILDING INFORMATION**

**SITE LEGEND**

**VICINITY MAP**



**TIMOTHY P. HUFF & ASSOCIATES, INC.**  
 Timothy P. Huff, AIA Architect  
 519 McHenry Ave., Modesto, CA 95354  
 Ph: (209) 571-2232 Fax: (209) 571-1936



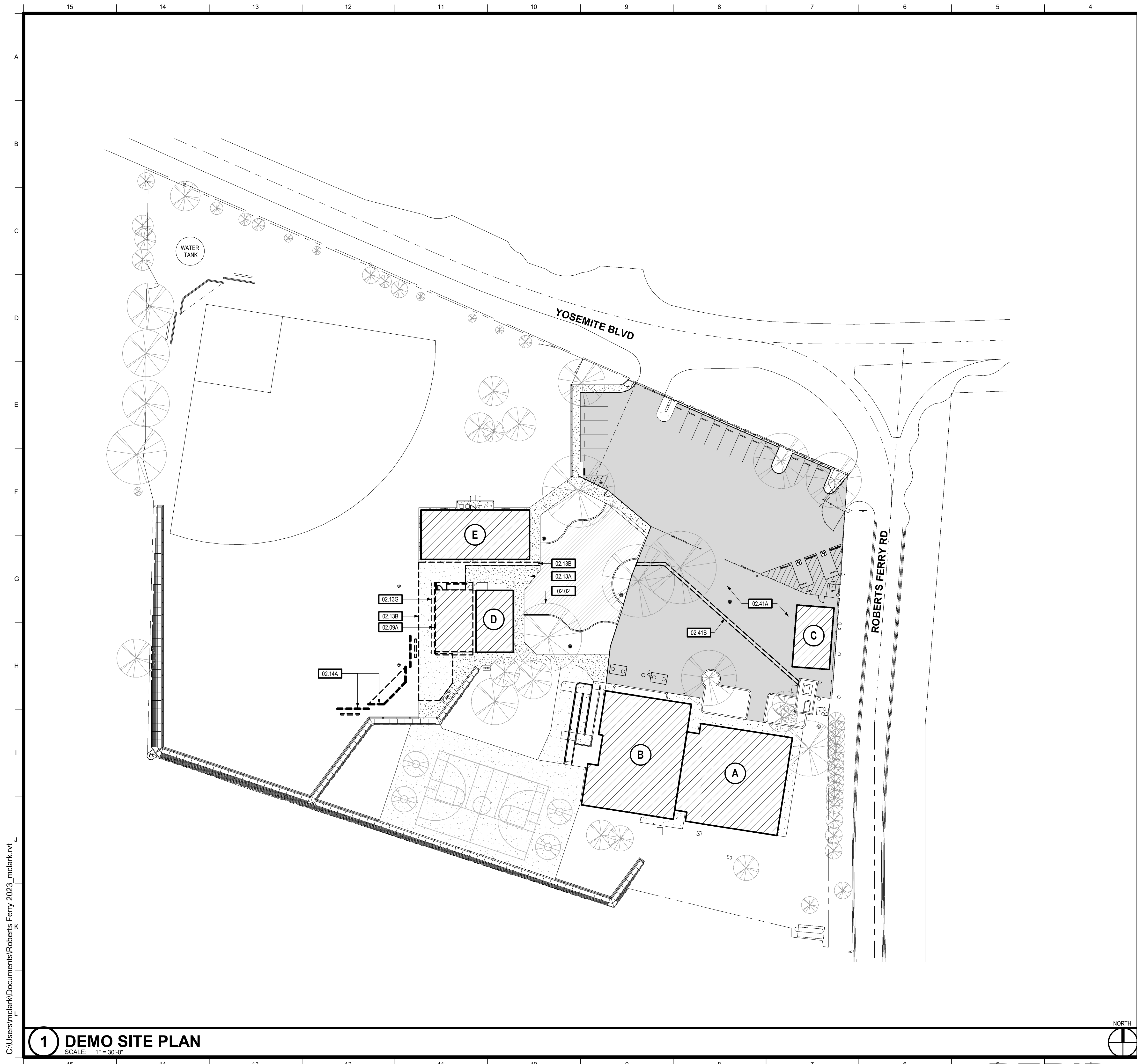
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**ROBERTS FERRY TK & KG**  
 101 ROBERTS FERRY RD, WATERFORD, CA 95386  
 ROBERT FERRY SCHOOL DISTRICT  
**FIRE, GATES AND ACCESS PLAN**

Project Number: **2326**  
 Date: **OCT 2023**  
 Drawn by: **RRM**  
 Checked by: **MC**

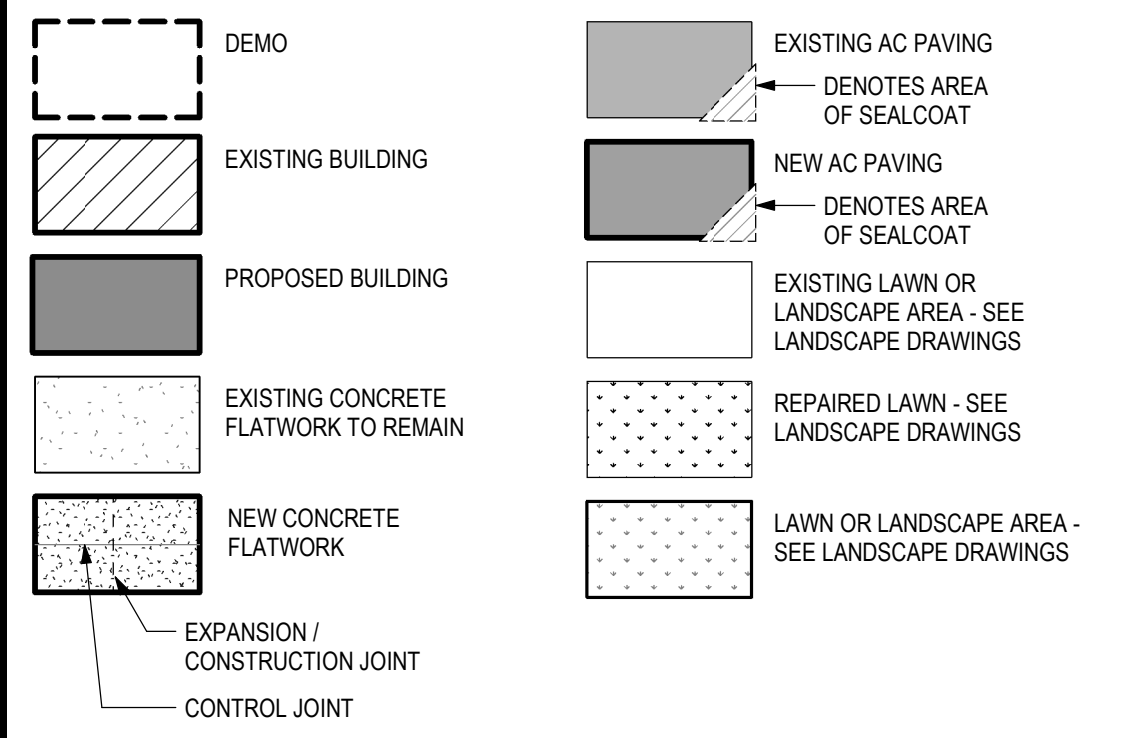
**FGA**  
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KEYNOTES	
02.02	EXISTING TREE TO REMAIN - CONTRACTOR TO PROTECT AND WATER DURING CONSTRUCTION ACTIVITIES
02.09A	EXISTING RELOCATABLE BUILDING AND RAMPS TO BE REMOVED. SAFE-OFF AND CAP ALL UTILITIES
02.13A	CONCRETE FLATWORK - EXISTING TO REMAIN
02.13B	CONCRETE FLATWORK - TO BE REMOVED
02.13G	CONCRETE CURB TO BE REMOVED
02.14A	EXISTING BACKSTOP TO BE REMOVED
02.41A	ASPHALT PAVING - EXISTING - CONFIRM LESS THAN 2% CROSS SLOPE IN ANY DIRECTION AT ACCESSIBLE PARKING STALLS AND ACCESS AISLES
02.41B	ASPHALT PAVING - TO BE REMOVED FOR NEW ELECTRICAL WORK- SEE ELECTRICAL

SEE DEMO UTILITY PLAN FOR ADDITIONAL SCOPE

### NOTES



### SITE LEGEND

BUILDING INFORMATION						
ID	BLDG DESCRIPTION	DSA APP	CONSTRUCTION TYPE	OCC	SPRINKLERED	BUILDING & COVERED AREA
A	CLASSROOM	33544/ 02-110483	V-B	E	NO	4,891 SF
B	ADMIN/ MULTI-USE / CLASSROOM	47650	V-B	E	NO	4,868 SF
C	CLASSROOM	02-117370	V-B	E	NO	960 SF
D	CLASSROOM	02-110474	V-B	E	NO	1,128 SF
E	LIBRARY/ CLASSROOM	02-110474	V-B	B/E	NO	2,800 SF
F	CLASSROOM	THIS APP	V-B	E	NO	3,456 SF

**1 DEMO SITE PLAN**  
SCALE: 1" = 30'-0"

### BUILDING INFORMATION



**TIMOTHY P. HUFF & ASSOCIATES, INC.**  
Timothy P. Huff, AIA Architect  
519 McHenry Ave., Modesto, CA 95354  
Ph: (209) 571-2232 Fax: (209) 571-1936



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**ROBERTS FERRY TK & KG CLASSROOM**

101 ROBERTS FERRY RD, WATERFORD, CA 95386

ROBERT FERRY SCHOOL DISTRICT

**DEMO SITE PLAN**

Project Number	2326
Date	OCT 2023
Drawn by	Author
Checked by	Checker

**AS1.1**

Plot Date & Time 4/9/2024 4:27:48 PM

**REBID - April 14, 2024**

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PARKING SCHEDULE			
STANDARD STALLS	STANDARD ACCESSIBLE STALLS	VAN ACCESSIBLE STALLS	TOTAL STALLS
17	1	1	19

**FLOOD DESIGN**  
 FLOOD ZONE DESIGNATION: ZONE X  
 FIRM PANEL DESIGNATION: 06099C0425E  
 EFFECTIVE DATE: 9/26/2008  
 BASE FLOOD ELEVATION: N/A  
 COMMUNITY ORDINANCE: N/A

KEYNOTES	
02.02	EXISTING TREE TO REMAIN - CONTRACTOR TO PROTECT AND WATER DURING CONSTRUCTION ACTIVITIES
02.13A	CONCRETE FLATWORK - EXISTING TO REMAIN
02.41A	ASPHALT PAVING - EXISTING - CONFIRM LESS THAN 2% CROSS SLOPE IN ANY DIRECTION AT ACCESSIBLE PARKING STALLS AND ACCESS AISLES
02.41C	ASPHALT PAVING REPAIR - PROVIDE SMOOTH FLUSH TRANSITIONS FROM NEW TO EXISTING-SEE 8/AS1.3
04.05	EXISTING RETAINING WALL
22.04	PLUMBING FIXTURE- 1H-LO' DRINKING FOUNTAIN AND DETECTABLE GROVED BORDER TO REMAIN- DSA 02-110474

SHEET NOTES	
SN.01	EXISTING ACCESSIBLE PARKING- DSA 02-117370
SN.02	EXISTING ENTRY WARNING SIGN- DSA 02-117370
SN.03	EXISTING ACCESSIBLE GATE WITH ACCESSIBLE HARDWARE ADD 10" TALL SMOOTH KICKPLATE EACH SIDE- DSA 02-110474
SN.04	EXISTING PARKING LOT- DSA 02-110474
SN.06	EXISTING TRUNCATED DOMES- DSA 02-117370

**(ACS) ACCESS COMPLIANCE**  
 THE PATH OF TRAVEL (P.O.T.) IS INDICATED BY AND IS A COMMON BARRIER FREE ACCESS ROUTE AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. THE P.O.T. IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. PASSING SPACES (11B-403.5.3) AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART. PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART. THE CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (P.O.T.) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTION TO 80" MINIMUM (11B-307.4) & PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2). GRID OPENINGS OF GRATINGS IN THE P.O.T. SHALL NOT EXCEED 1/2" IN THE DIRECTION OF TRAFFIC FLOW.

**DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:** THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISION FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THE IS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTION OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATION OR FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

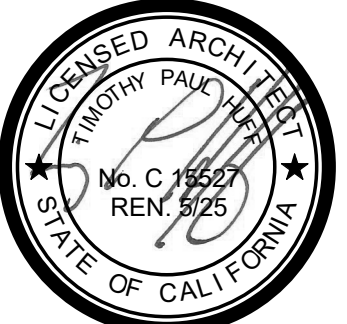
NOTES			
	DEMO		EXISTING AC PAVING
	EXISTING BUILDING		DENOTES AREA OF SEALCOAT
	PROPOSED BUILDING		NEW AC PAVING
	EXISTING CONCRETE FLATWORK TO REMAIN		DENOTES AREA OF SEALCOAT
	NEW CONCRETE FLATWORK		EXISTING LAWN OR LANDSCAPE AREA - SEE LANDSCAPE DRAWINGS
	EXPANSION / CONSTRUCTION JOINT		REPAIRED LAWN - SEE LANDSCAPE DRAWINGS
	CONTROL JOINT		LAWN OR LANDSCAPE AREA - SEE LANDSCAPE DRAWINGS

BUILDING INFORMATION						
ID	BLDG DESCRIPTION	DSA APP	CONSTRUCTION TYPE	OCC	SPRINKLERED	BUILDING & COVERED AREA
A	CLASSROOM	33544/ 02-110483	V-B	E	NO	4,891 SF
B	ADMIN/ MULTI-USE / CLASSROOM	47650	V-B	E	NO	4,868 SF
C	CLASSROOM	02-117370	V-B	E	NO	960 SF
D	CLASSROOM	02-110474	V-B	E	NO	1,128 SF
E	LIBRARY/ CLASSROOM	02-110474	V-B	B/E	NO	2,800 SF
F	CLASSROOM	THIS APP	V-B	E	NO	3,456 SF

Project Number	2326
Date	OCT 2023
Drawn by	Author
Checked by	Checker



**TIMOTHY P. HUFF & ASSOCIATES, INC.**  
 Timothy P. Huff, AIA Architect  
 519 McHenry Ave., Modesto, CA 95354  
 Ph: (209) 571-2232 Fax: (209) 571-1936



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**ROBERTS FERRY TK & KG CLASSROOM**

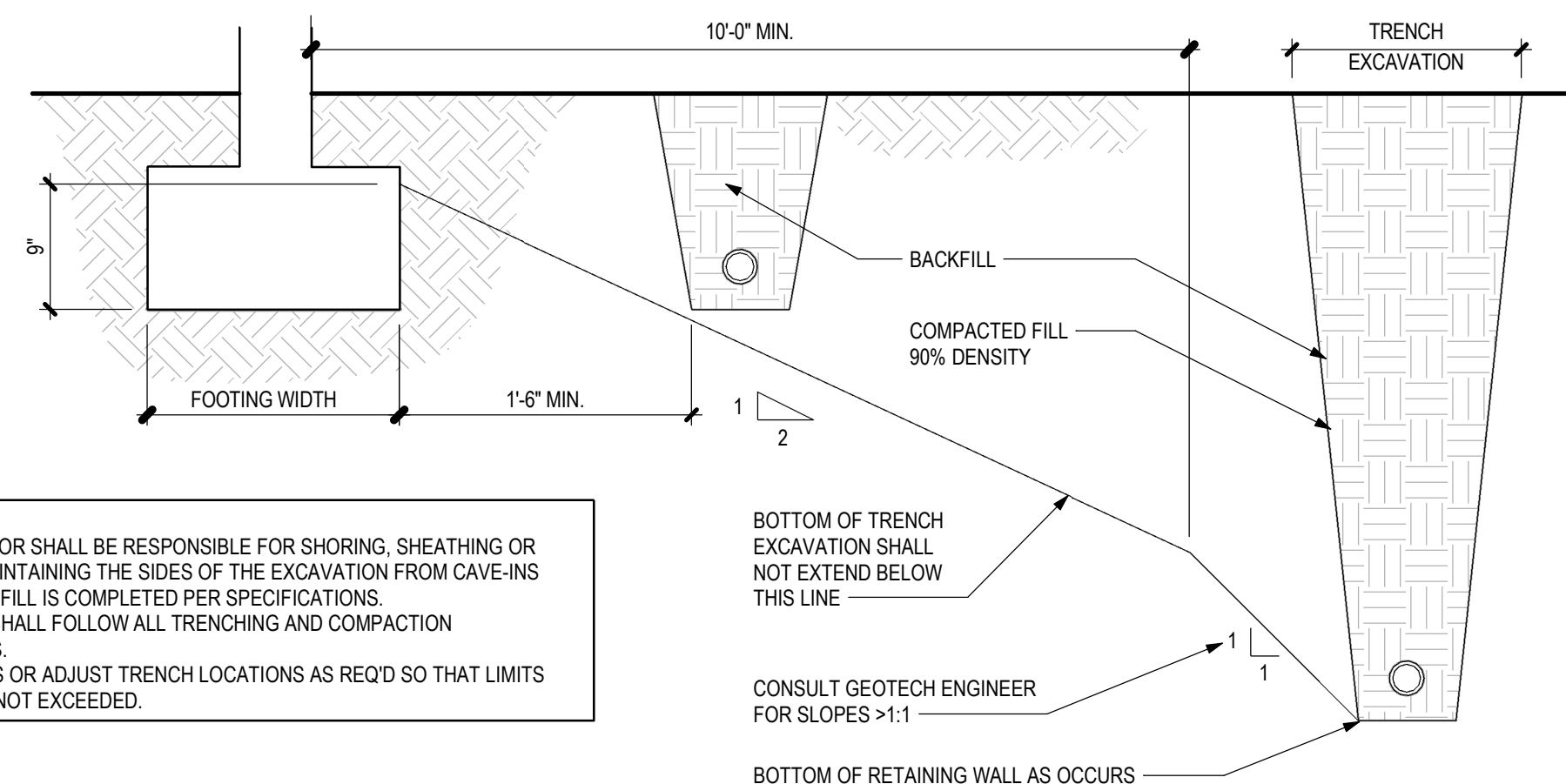
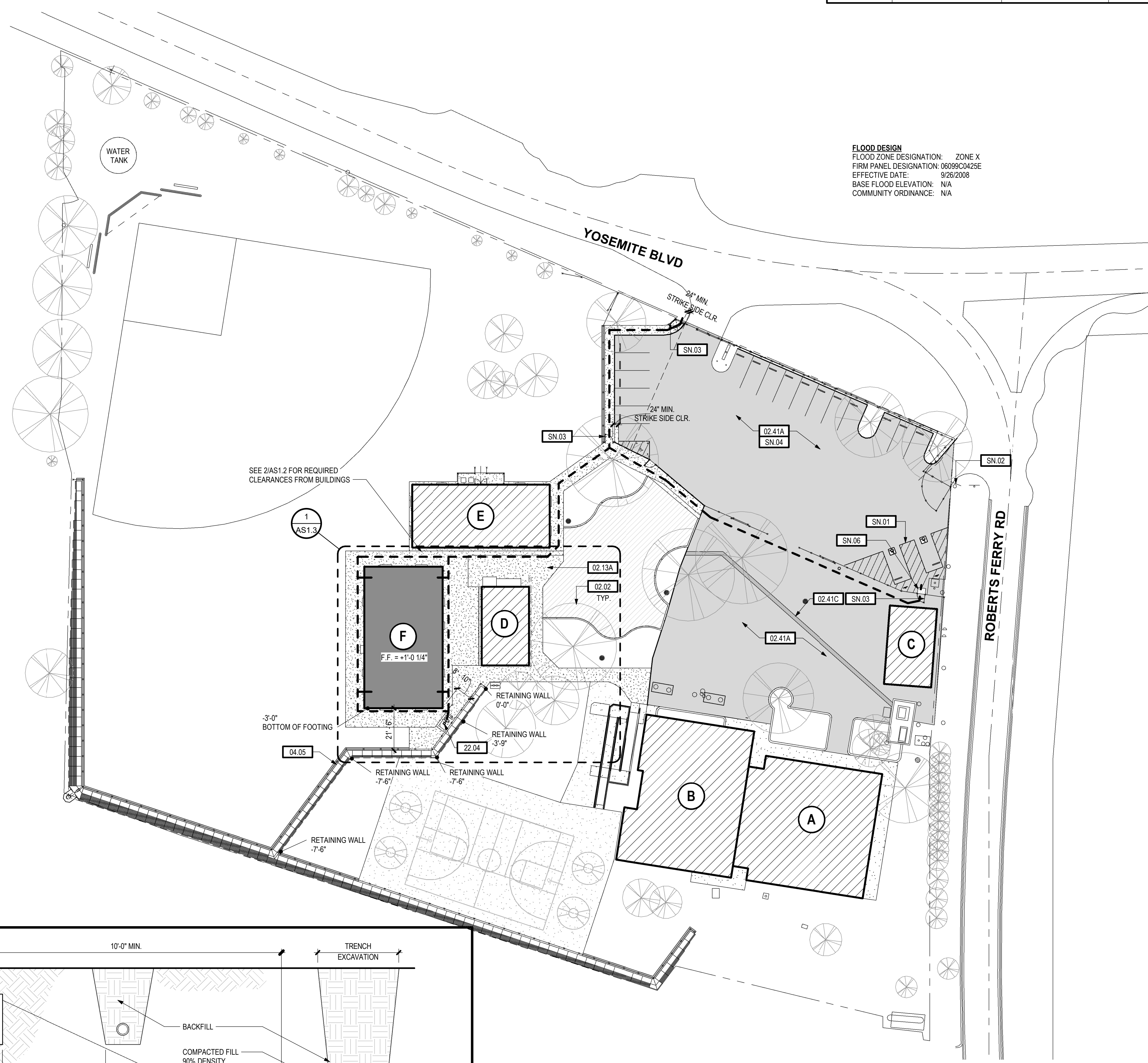
101 ROBERTS FERRY RD, WATERFORD, CA 95386  
 ROBERTS FERRY SCHOOL DISTRICT

SITE PLAN

Project Number	2326
Date	OCT 2023
Drawn by	Author
Checked by	Checker

**AS1.2**

Plot Date & Time 4/9/2024 4:27:49 PM



**NOTE:**  
 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING, SHEATHING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-INS UNTIL ALL BACKFILL IS COMPLETED PER SPECIFICATIONS.  
 2. CONTRACTOR SHALL FOLLOW ALL TRENCHING AND COMPACTION REQUIREMENTS.  
 3. STEP FOOTINGS OR ADJUST TRENCH LOCATIONS AS REQ'D SO THAT LIMITS SHOWN ARE NOT EXCEEDED.

**2 EXCAVATION PARALLEL TO FOOTING**  
 SCALE: 1" = 1'-0"

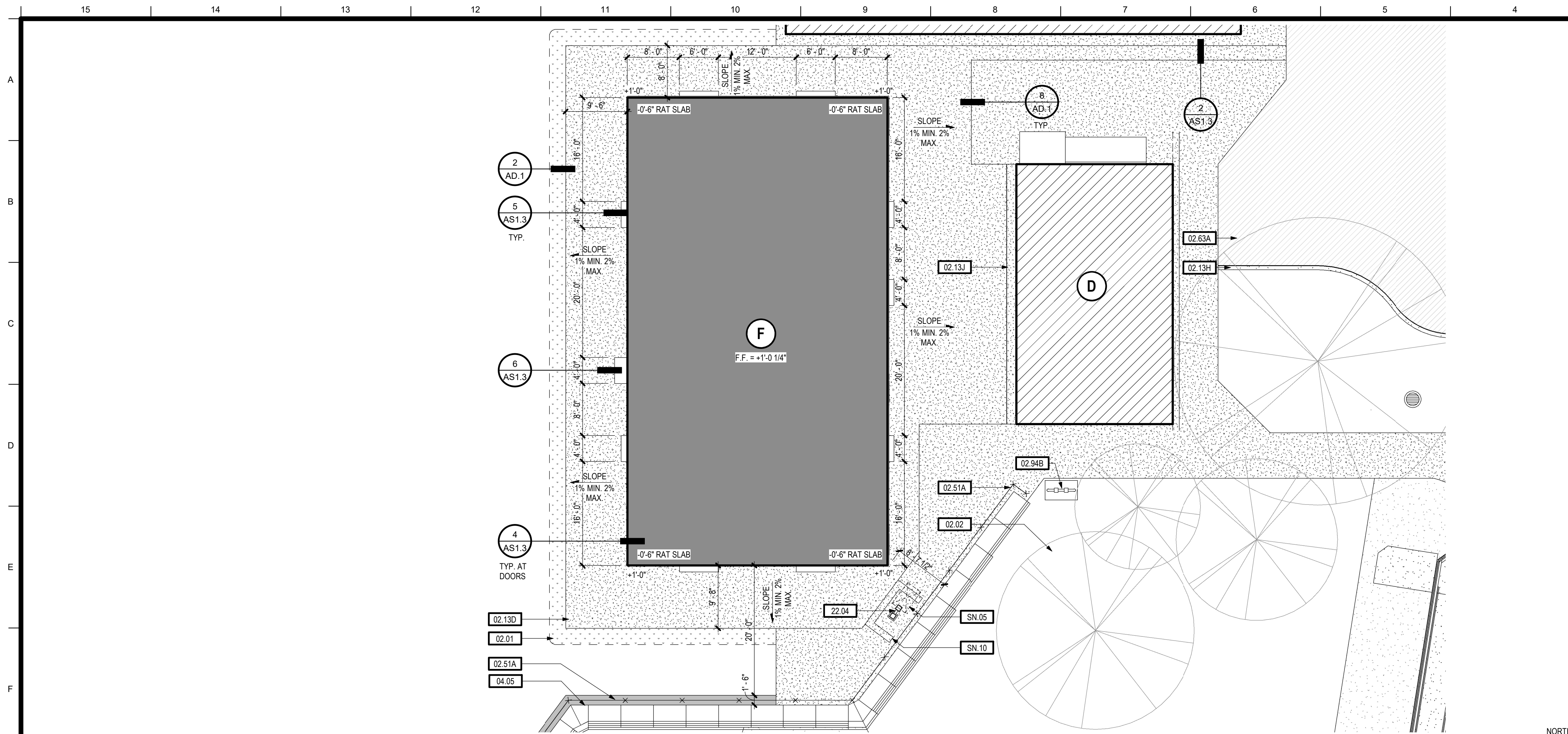
**1 SITE PLAN**  
 SCALE: 1" = 30'-0"

**BUILDING INFORMATION**



**REBID - April 14, 2024**

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KEYNOTES	
02.01	EXISTING GRASS TO REMAIN - AREAS DAMAGED OR AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR. SLOPE AWAY FROM WALK AT 4:1 MAX.
02.02	EXISTING TREE TO REMAIN - CONTRACTOR TO PROTECT AND WATER DURING CONSTRUCTION ACTIVITIES
02.13D	CONCRETE FLATWORK - SEE 1/AD.1
02.13H	CONCRETE PLAY/IT CURB- EXISTING TO REMAIN
02.13J	CONCRETE CURB
02.51A	CHAIN LINK FENCE - EXISTING TO REMAIN
02.63A	PLAY STRUCTURE - EXISTING TO REMAIN
02.94B	WATER DISTRIBUTION - (E) BACKFLOW PREVENTION DEVICE TO REMAIN
04.05	EXISTING RETAINING WALL
22.04	PLUMBING FIXTURE- 'H/O' DRINKING FOUNTAIN AND DETECTABLE GROVED BORDER TO REMAIN- DSA 02-110474

SHEET NOTES	
SN.05	30"x48" CLEAR FLOOR SPACE AT DRINKING FOUNTAIN WITH 2% MAX SLOPE ALL DIRECTIONS
SN.10	EXISTING GROVED BORDER- DSA 02-110474

**TPH**  
architects

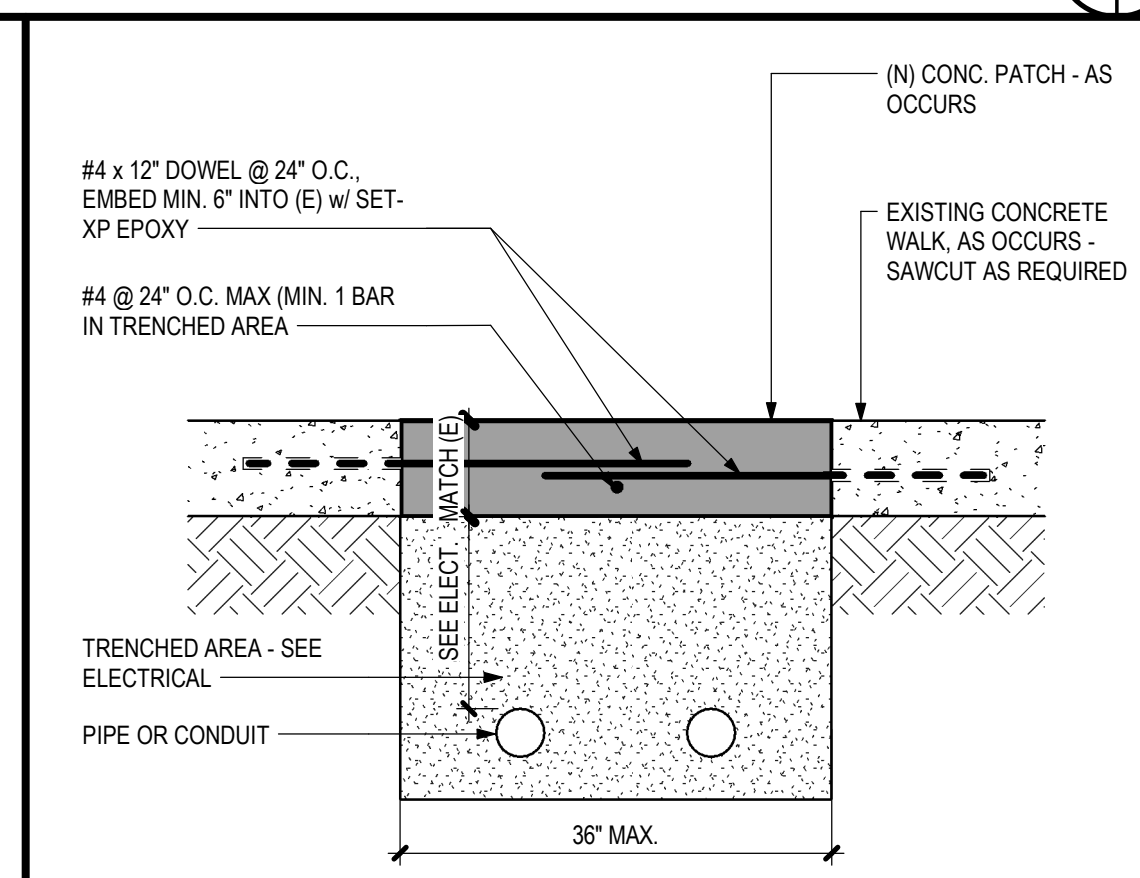
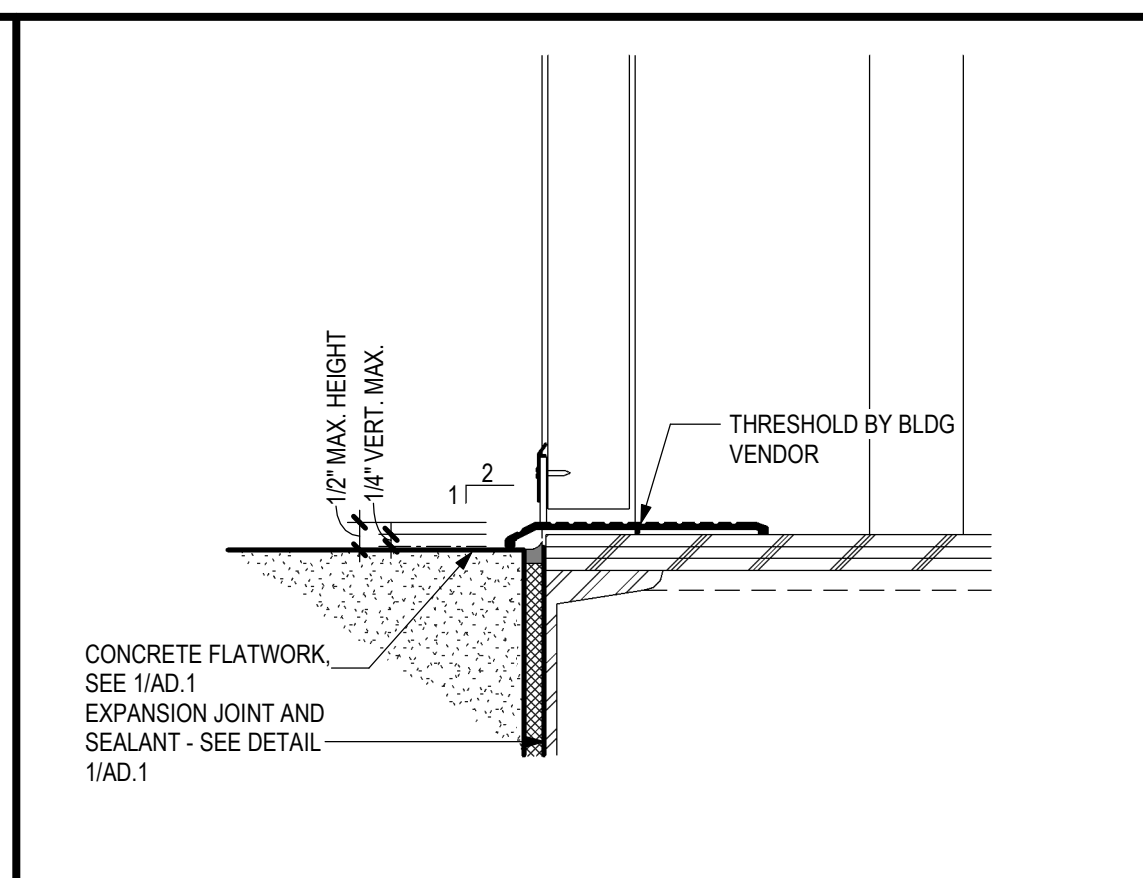
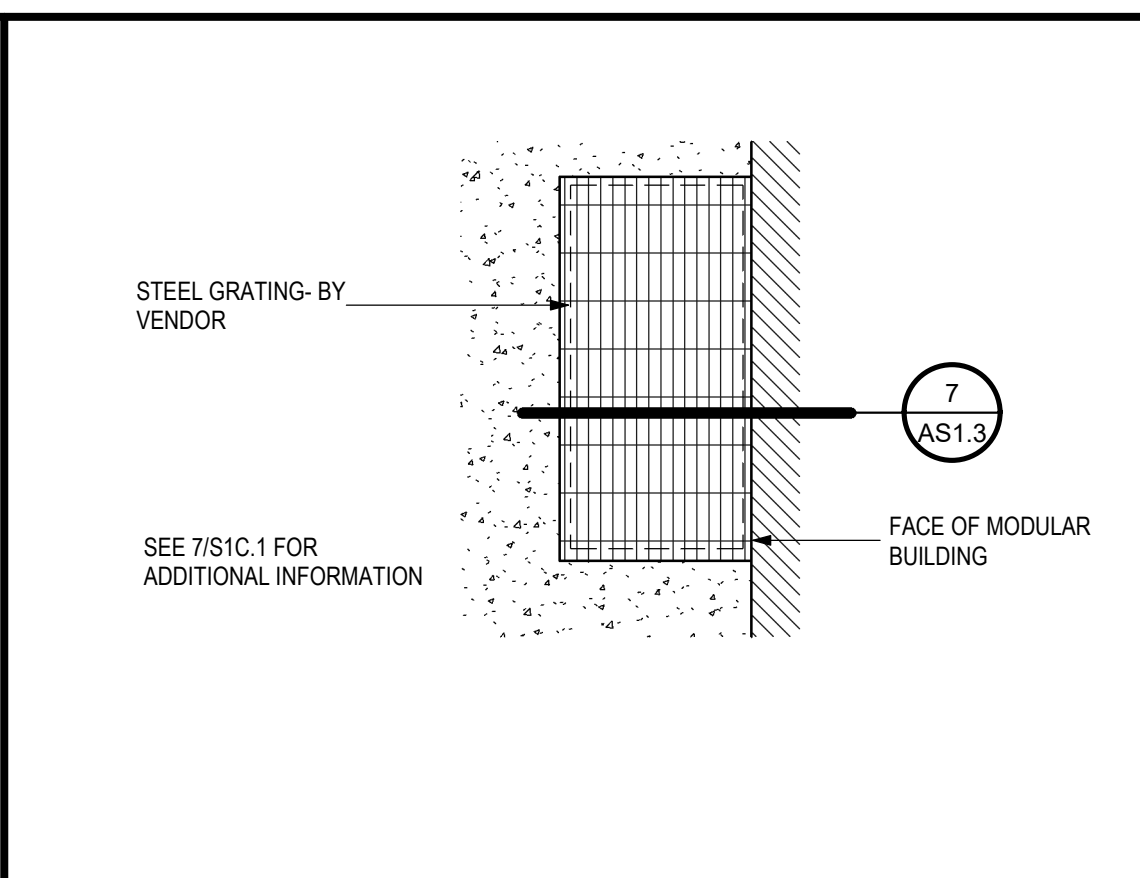
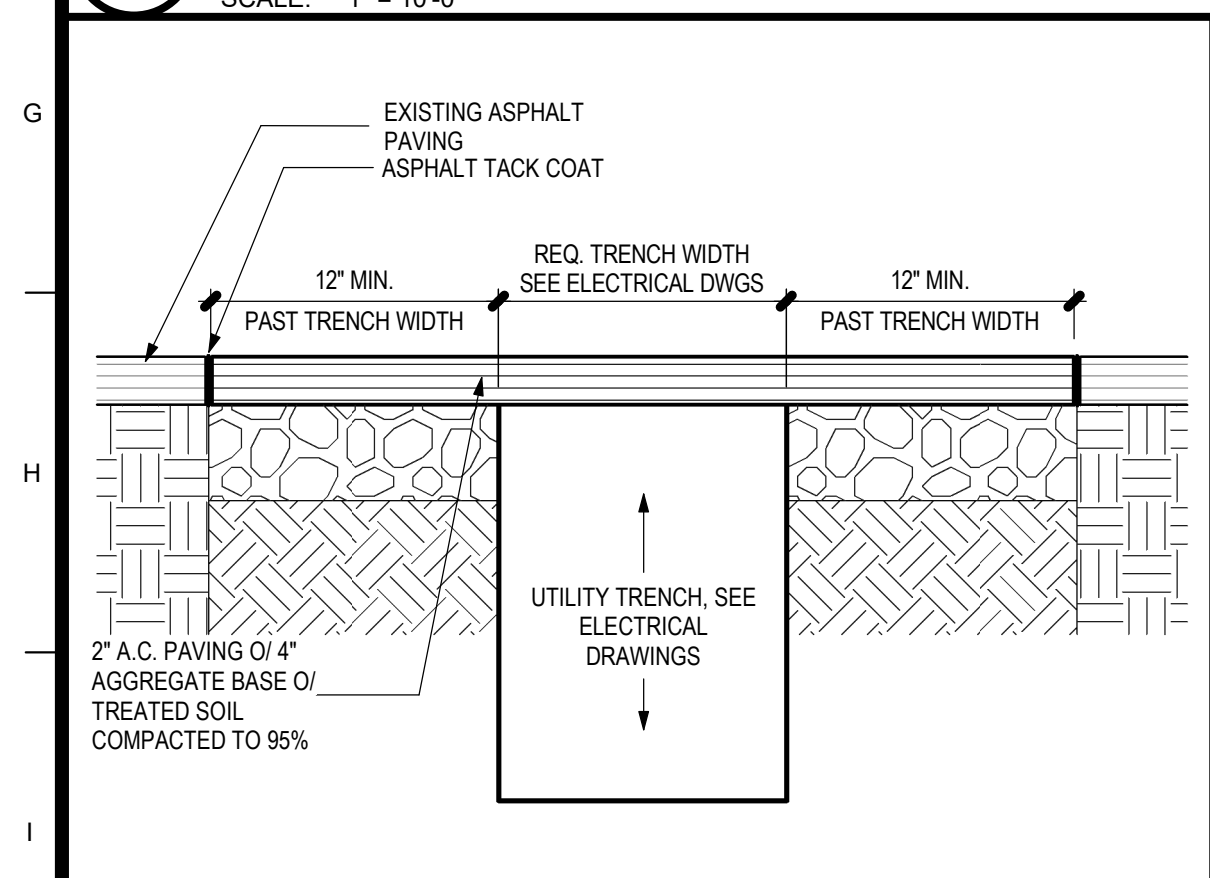
**TIMOTHY P. HUFF & ASSOCIATES, INC.**  
Timothy P. Huff, AIA Architect  
519 McHenry Ave., Modesto, CA 95354  
Ph: (209) 571-2232 Fax: (209) 571-1936

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NEW BUILDINGS SHALL BE PROVIDED WITH EMERGENCY RESPONDER RADIO COVERAGE IN ACCORDANCE WITH CALIFORNIA FIRE CODE SECTION 510. THE PROJECT ARCHITECT (AOR) SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN DESIGN, EQUIPMENT SPECIFICATIONS, TESTING AND ACCEPTANCE CRITERIA. PLANS AND REQUESTED DOCUMENTATION SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. UPON COMPLETION, COPIES OF THE APPROVED PLANS, EQUIPMENT DATA SHEETS, TESTING AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT.

**1 ENLARGED SITE PLAN- PORTABLES**  
SCALE: 1" = 10'-0"

**NOTES**



UNDERFLOOR VENT CALCULATION PER 6/SIC.1  
19.2 SQ FT OF VENTILATION IS REQUIRED

PROVIDED:  
(9) 6'-0"x1'-0" = 4.5 SQ FT NET VENT OPENING  
9 x 4.5 = 40.5 SQ FT

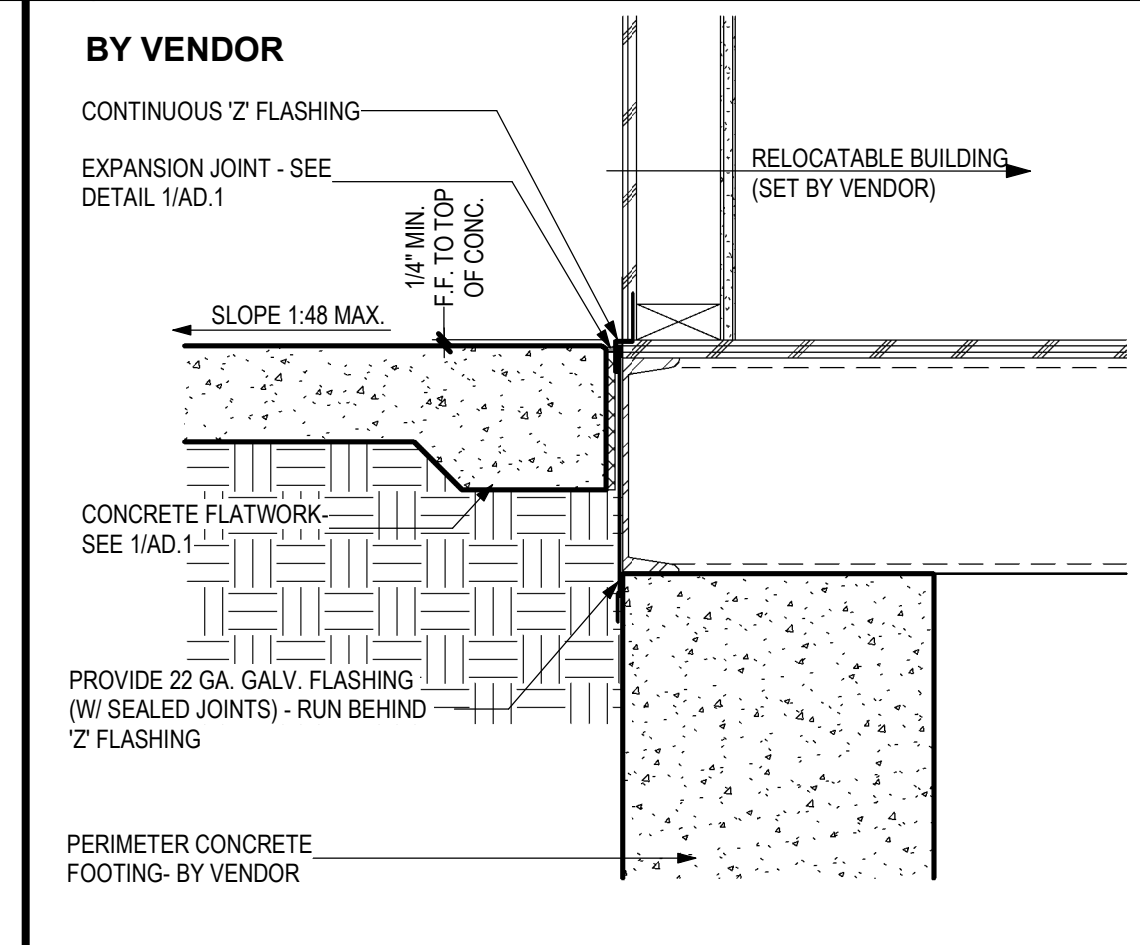
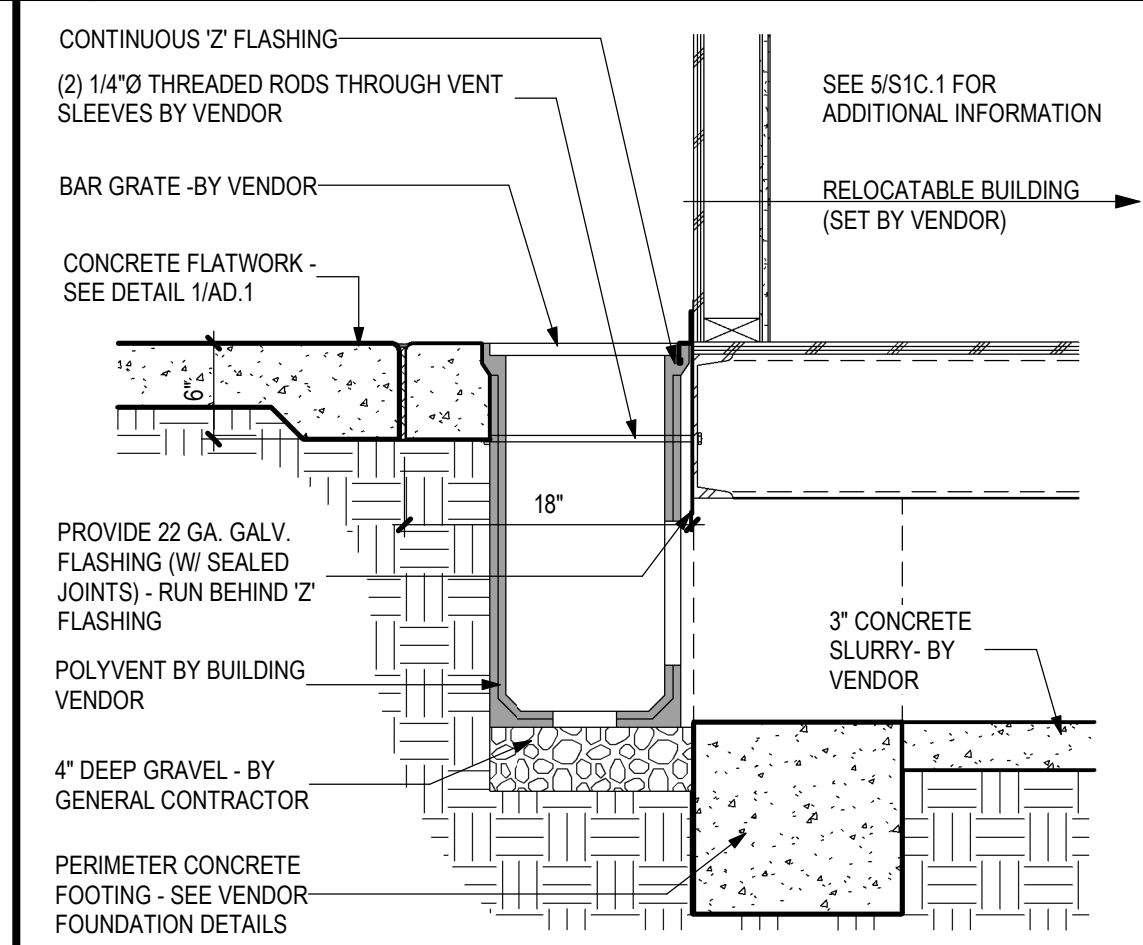
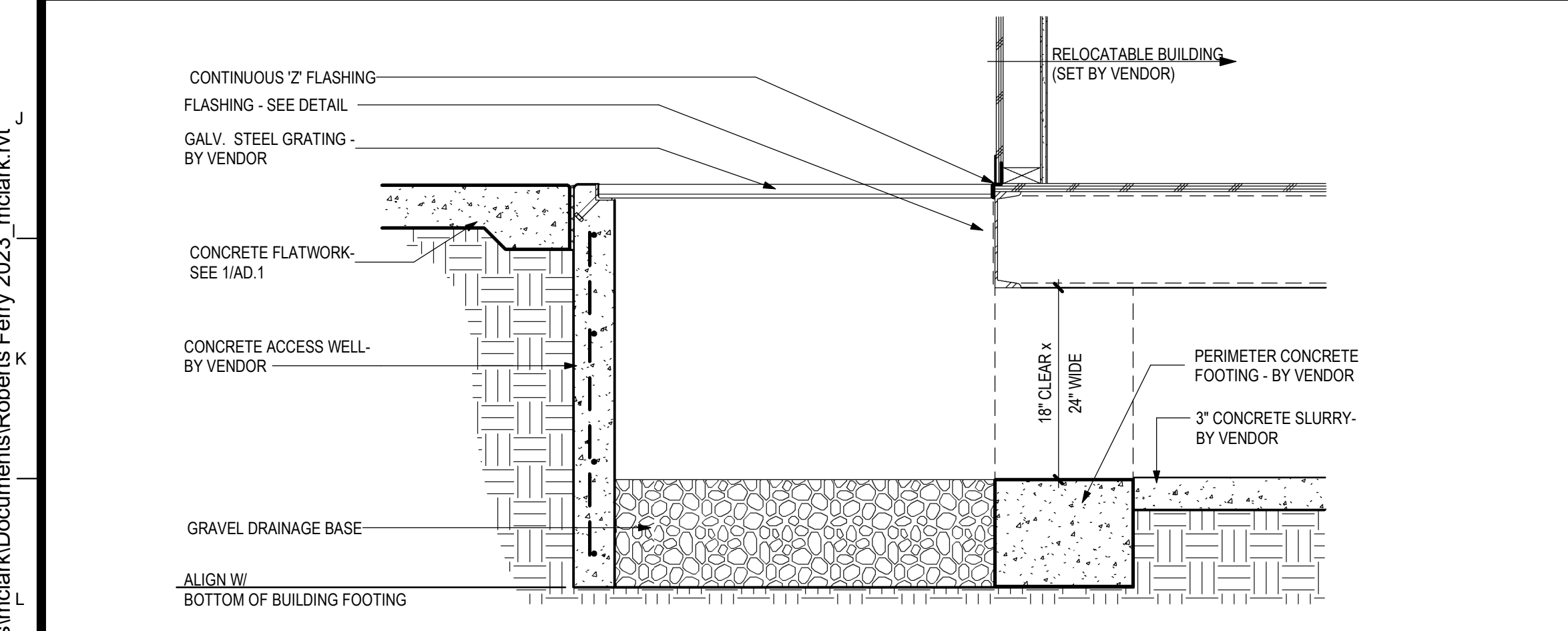
**8 AC - PATCHING**  
SCALE: 1 1/2" = 1'-0"

**6 ACCESS WELL PLAN**  
SCALE: 1/2" = 1'-0"

**4 THRESHOLD**  
SCALE: 3" = 1'-0"

**2 CONC. TRENCH REPAIR**  
SCALE: 1 1/2" = 1'-0"

**VENT CALCULATION**



**SITE LEGEND**

	DEMO		EXISTING AC PAVING
	EXISTING BUILDING		DENOTES AREA OF SEALCOAT
	PROPOSED BUILDING		NEW AC PAVING
	EXISTING CONCRETE FLATWORK TO REMAIN		DENOTES AREA OF SEALCOAT
	NEW CONCRETE FLATWORK		EXISTING LAWN OR LANDSCAPE AREA - SEE LANDSCAPE DRAWINGS
	EXPANSION / CONSTRUCTION JOINT		REPAIRED LAWN - SEE LANDSCAPE DRAWINGS
	CONTROL JOINT		LAWN OR LANDSCAPE AREA - SEE LANDSCAPE DRAWINGS

**7 FOUNDATION ACCESS WELL**  
SCALE: 1" = 1'-0"

**5 VENT AT BUILDING**  
SCALE: 1" = 1'-0"

**3 CONCRETE AT BUILDING**  
SCALE: 1 1/2" = 1'-0"

**SITE LEGEND**

**ROBERTS FERRY TK & KG CLASSROOM**

101 ROBERTS FERRY RD, WATERFORD, CA 95386  
ROBERT FERRY SCHOOL DISTRICT

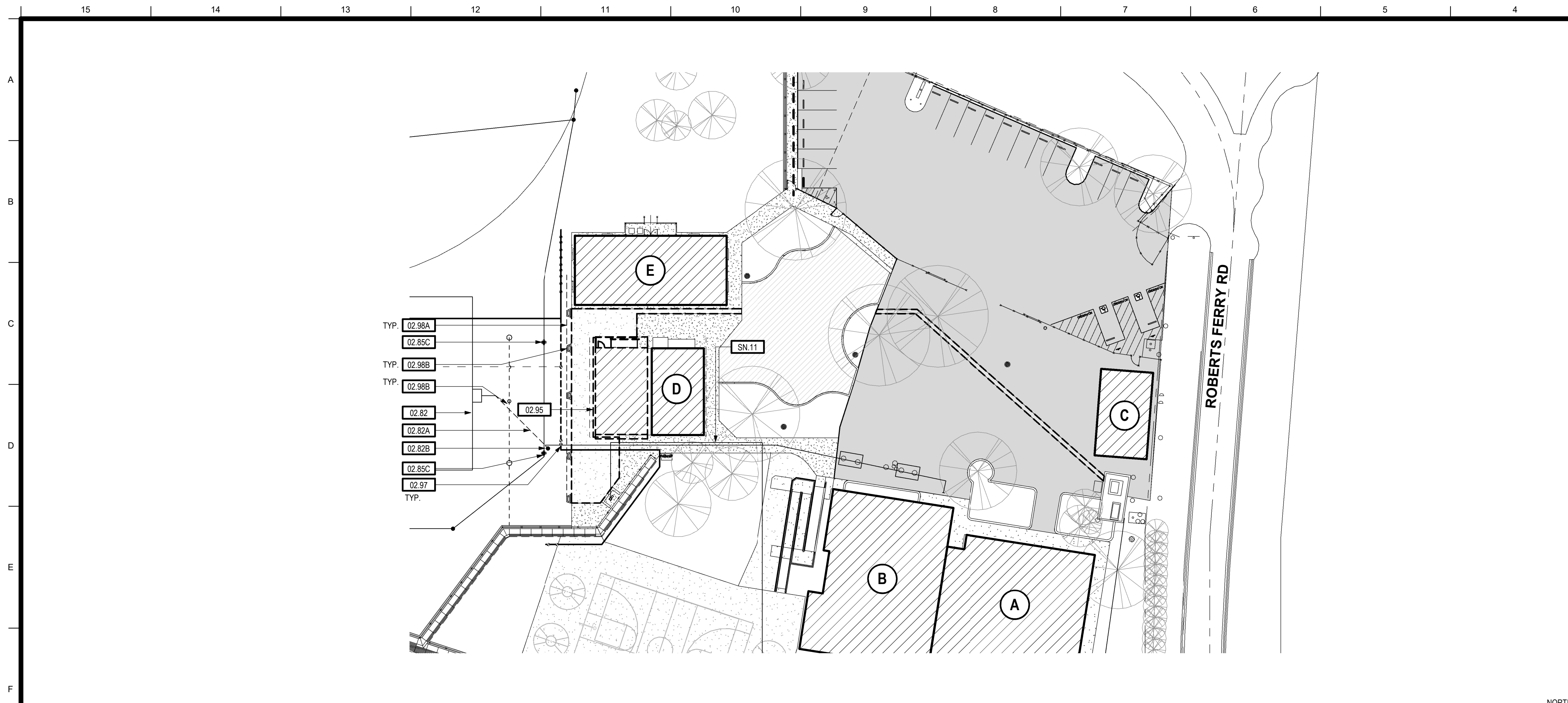
**PARTIAL ENLARGED SITE PLAN, DETAILS**

Project Number	2326
Date	OCT 2023
Drawn by	RMM
Checked by	TPH

**AS1.3**

Plot Date & Time 4/9/2024 4:27:50 PM

**REBID - April 14, 2024**



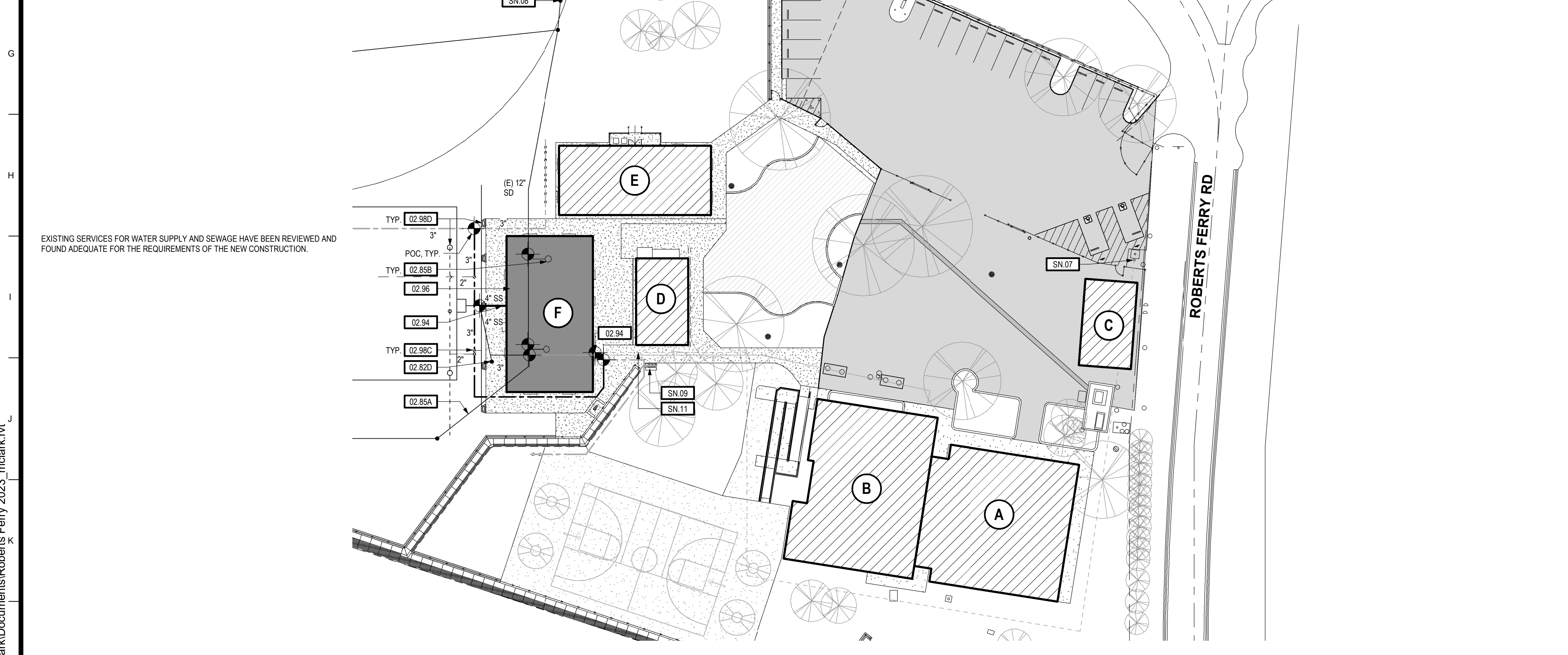
KEYNOTES	
02.82	EXISTING SEPTIC FIELD
02.82A	REMOVE PORTION OF 4" SEWER LINE AS REQUIRED TO REROUTE FOR NEW WORK
02.82B	REMOVE 4" GCO AS REQUIRED TO REROUTE FOR NEW WORK
02.82D	NEW 4" GCO - SEE 3/AD.1
02.85A	EXISTING 12" STORM DRAIN
02.85B	NEW STORM DRAIN CATCH BASIN- LOCATE IN RAT SLAB BELOW BUILDING- SEE 4/AD.1
02.85C	STORM DRAIN CATCH BASIN - TO BE REMOVED
02.94	CONNECT NEW BUILDING TO EXISTING 4" SEWER AND 1 1/2" WATER- SEE 10/AD.1
02.95	REMOVE AND RELOCATE IRRIGATION CONTROLLER
02.96	RELOCATED IRRIGATION CONTROLLER- SPLICE AND EXTEND WIRE AS REQUIRED TO EXISTING AND RELOCATED VALVES
02.97	REMOVE AND RELOCATE EXISTING IRRIGATION VALVE
02.98A	REMOVE EXISTING IRRIGATION LINE AS REQUIRED TO REROUTE
02.98B	REMOVE EXISTING SPRINKLER HEAD
02.98C	RELOCATED SPRINKLER VALVE
02.98D	PROVIDE NEW SPRINKLER HEADS AS REQUIRED TO PROVIDE FULL COVERAGE

SHEET NOTES	
SN.07	EXISTING WATER WELL
SN.08	EXISTING DRY WELL- DSA 02-110474
SN.09	EXISTING IRRIGATION BACK FLOW DEVICE- DSA 02-110474
SN.11	EXISTING 2" DOMESTIC WATER LINE

**1 DEMO UTILITY PLAN**  
SCALE: 1" = 30'-0"

**NOTES**



SITE LEGEND	
	DEMO
	EXISTING BUILDING
	PROPOSED BUILDING
	EXISTING CONCRETE FLATWORK TO REMAIN
	NEW CONCRETE FLATWORK
	EXPANSION / CONSTRUCTION JOINT CONTROL JOINT
	EXISTING AC PAVING DENOTES AREA OF SEALCOAT
	NEW AC PAVING DENOTES AREA OF SEALCOAT
	EXISTING LAWN OR LANDSCAPE AREA - SEE LANDSCAPE DRAWINGS
	REPAIRED LAWN - SEE LANDSCAPE DRAWINGS
	LAWN OR LANDSCAPE AREA - SEE LANDSCAPE DRAWINGS

**SITE LEGEND**

BUILDING INFORMATION						
ID	BLDG DESCRIPTION	DSA APP	CONSTRUCTION TYPE	OCC	SPRINKLERED	BUILDING & COVERED AREA
A	CLASSROOM	33544/ 02-110483	V-B	E	NO	4,891 SF
B	ADMIN/ MULTI-USE / CLASSROOM	47650	V-B	E	NO	4,868 SF
C	CLASSROOM	02-117370	V-B	E	NO	960 SF
D	CLASSROOM	02-110474	V-B	E	NO	1,128 SF
E	LIBRARY / CLASSROOM	02-110474	V-B	B/E	NO	2,800 SF
F	CLASSROOM	THIS APP	V-B	E	NO	3,456 SF

**2 IMPROVEMENT UTILITY PLAN**  
SCALE: 1" = 30'-0"

**BUILDING INFORMATION**



**TIMOTHY P. HUFF & ASSOCIATES, INC.**  
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519 McHenry Ave., Modesto, CA 95354  
Ph: (209) 571-2232 Fax: (209) 571-1936



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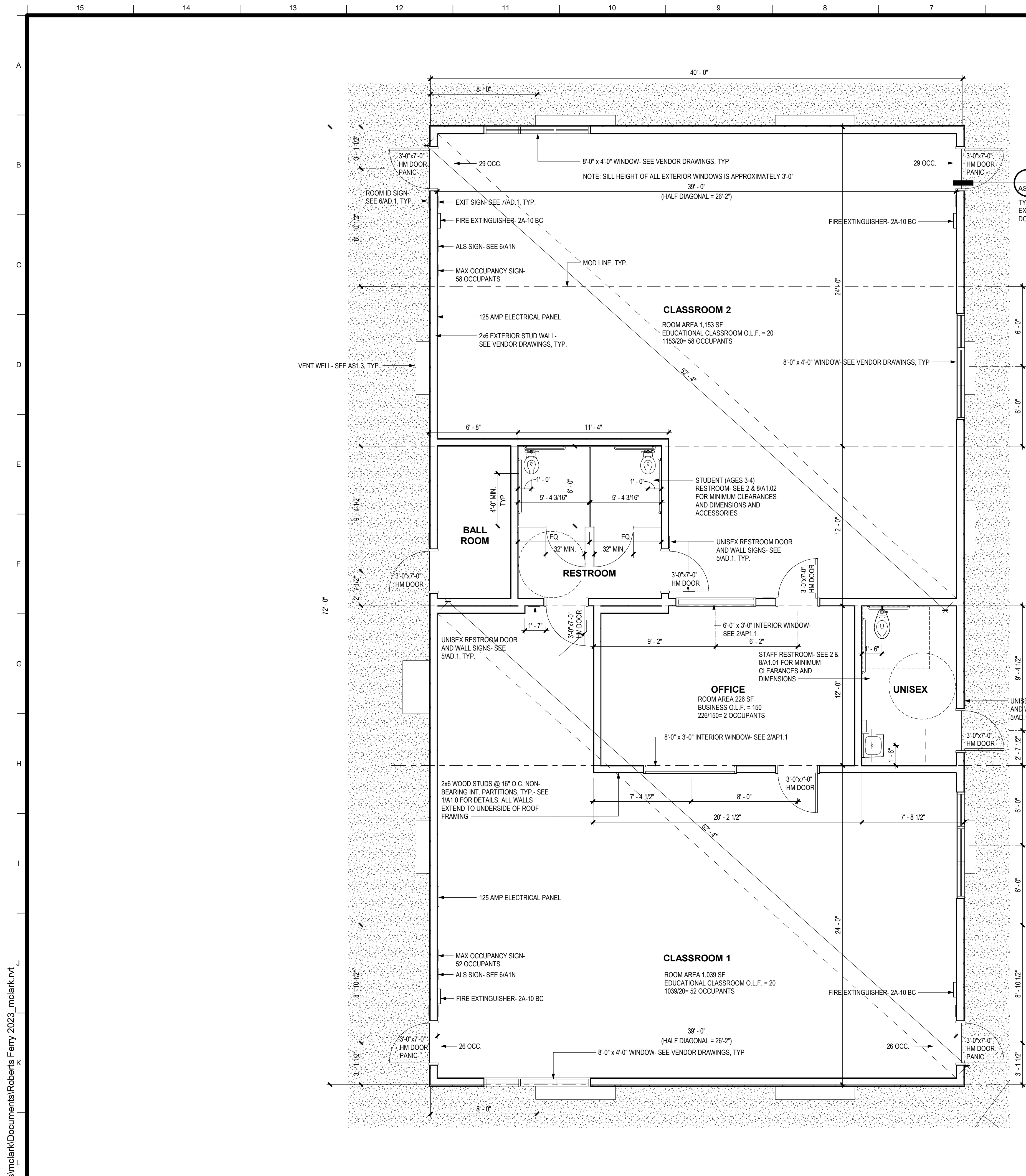
**ROBERTS FERRY TK & KG CLASSROOM**  
101 ROBERTS FERRY RD, WATERFORD, CA 95386  
ROBERTS FERRY SCHOOL DISTRICT  
**SITE UTILITY PLANS**

Project Number 2326  
Date OCT 2023  
Drawn by Author  
Checked by Checker

**AS1.4**  
Plot Date & Time 4/9/2024 4:27:52 PM

**REBID - April 14, 2024**

C:\Users\mclark\Documents\Roberts Ferry 2023\_mclark.rvt



**1 FLOOR PLAN**

NOTE: FLOOR PLANS ARE SHOWN FOR LAYOUT PURPOSES ONLY. SEE VENDOR PC DRAWINGS FOR ADDITIONAL INFORMATION.

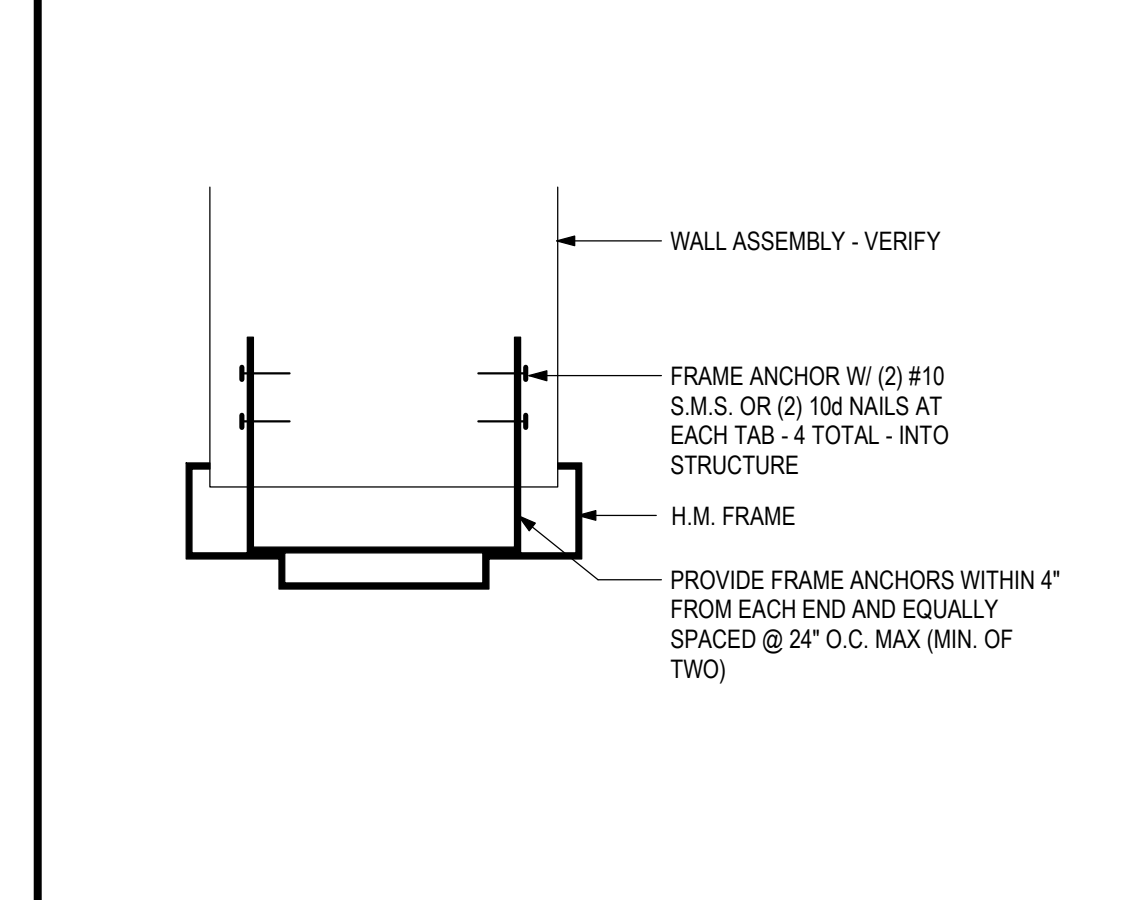
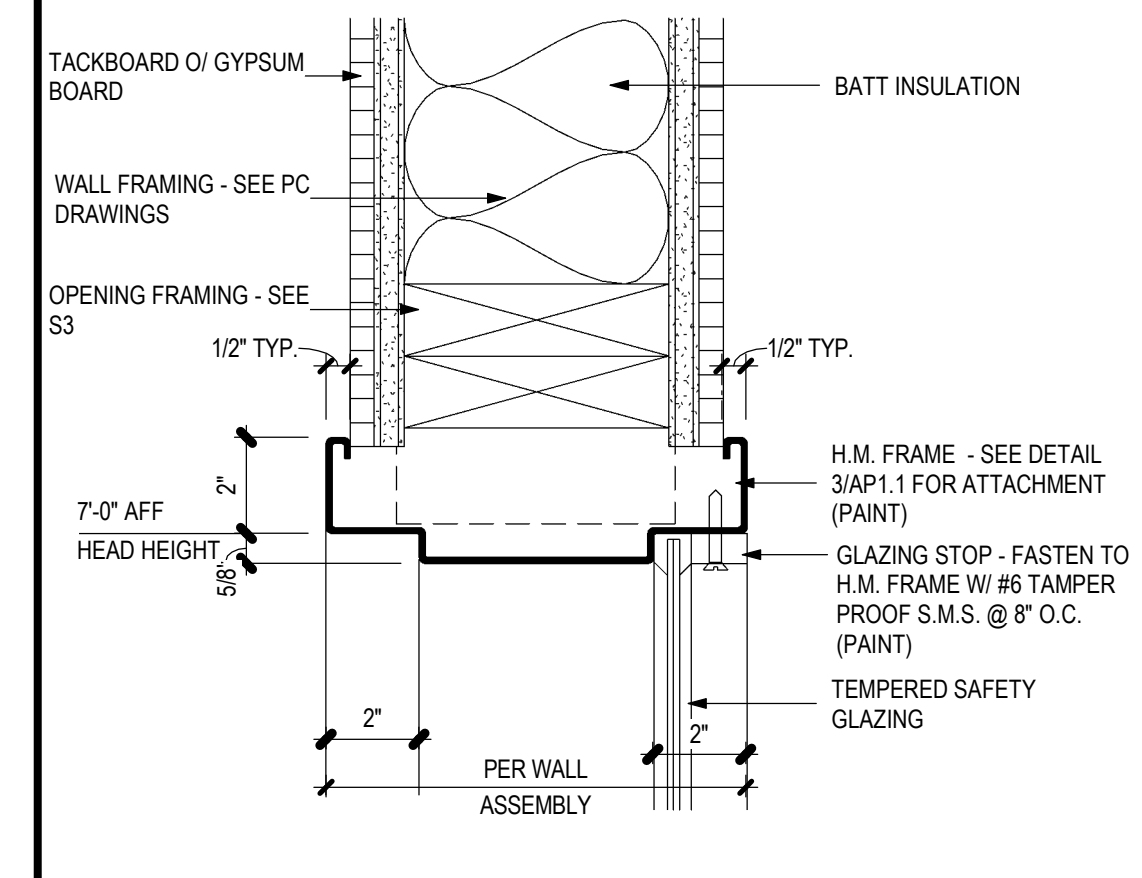
SCALE: 1/4" = 1'-0"

**2 INT. WDW. JAMB/ HEAD/ SILL**

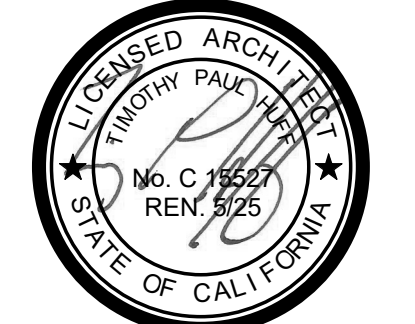
SCALE: 3" = 1'-0"

**3 H.M. FRAME ATTACHMENT A**

SCALE: 3" = 1'-0"



**TIMOTHY P. HUFF & ASSOCIATES, INC.**  
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Consultants

**ROBERTS FERRY TK & KG CLASSROOM**

101 ROBERTS FERRY RD, WATERFORD, CA 95386  
 ROBERT FERRY SCHOOL DISTRICT

**FLOOR PLAN**

Project Number	2326
Date	OCT 2023
Drawn by	Author
Checked by	Checker

**AP1.1**

Plot Date & Time 4/9/2024 4:27:47 PM

**REBID - April 14, 2024**





**12 PIPE HANGER DETAIL**

BRACING DESIGNED PER CBC 1817A.1.26 AND ASCE 7 SEC.13.6.7.3

HANGER SPACING

1" PIPE 12'-0" MAX.  
1-1/4" PIPE 12'-0" MAX.  
3" PIPE 12'-0" MAX.

**8 NEW TO EXISTING CONCRETE**

SCALE: 3" = 1'-0"

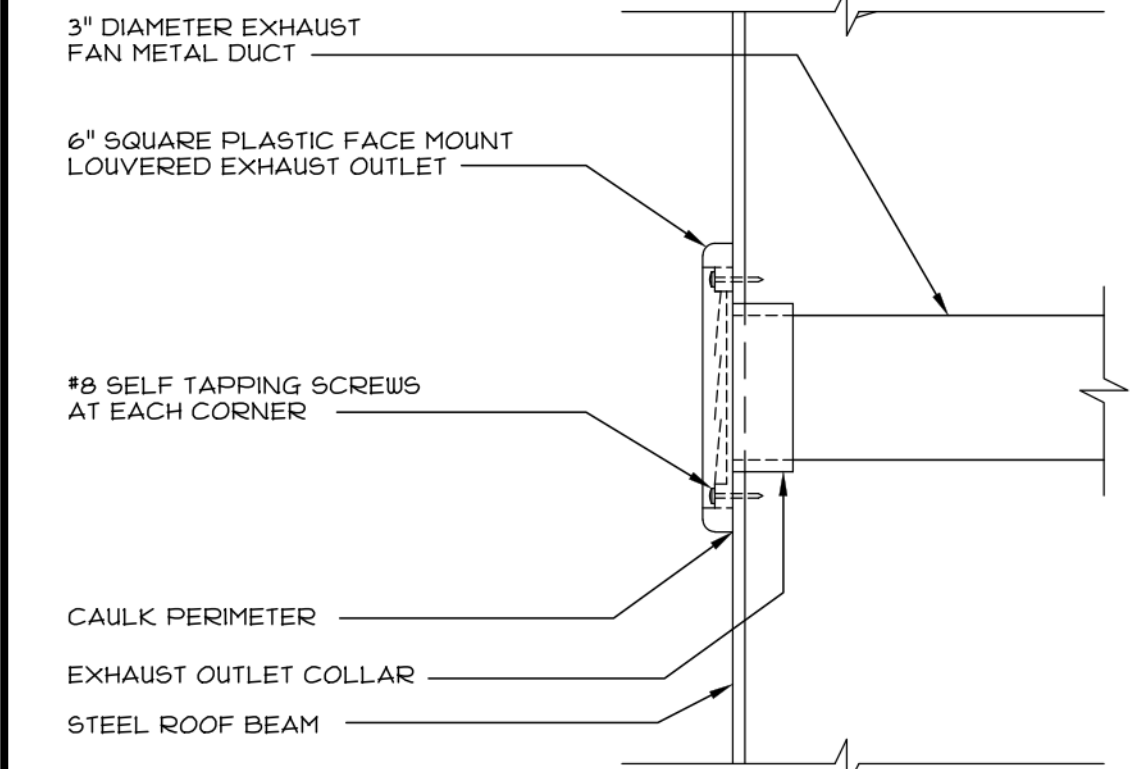
**4 CATCH BASIN**

SCALE: 3" = 1'-0"

**1 TYP. CONCRETE FLATWORK**

SCALE: 3" = 1'-0"

**13 EXHAUST WALL TERMINATION**



**9 CURB AT EXISTING BUILDING**

SCALE: 1 1/2" = 1'-0"

**5 SIGNAGE - RESTROOM**

SCALE: 1/2" = 1'-0"

**1 TYP. CONCRETE FLATWORK**

SCALE: 3" = 1'-0"

**10 PLUMBING CONNECTIONS**

SCALE: 1" = 1'-0"

**6 SIGNAGE-ROOM ID**

SCALE: 1/2" = 1'-0"

**2 CONCRETE EDGE**

SCALE: 3" = 1'-0"

**2 CONCRETE EDGE**

SCALE: 3" = 1'-0"

**11 ROOF PENETRATION**

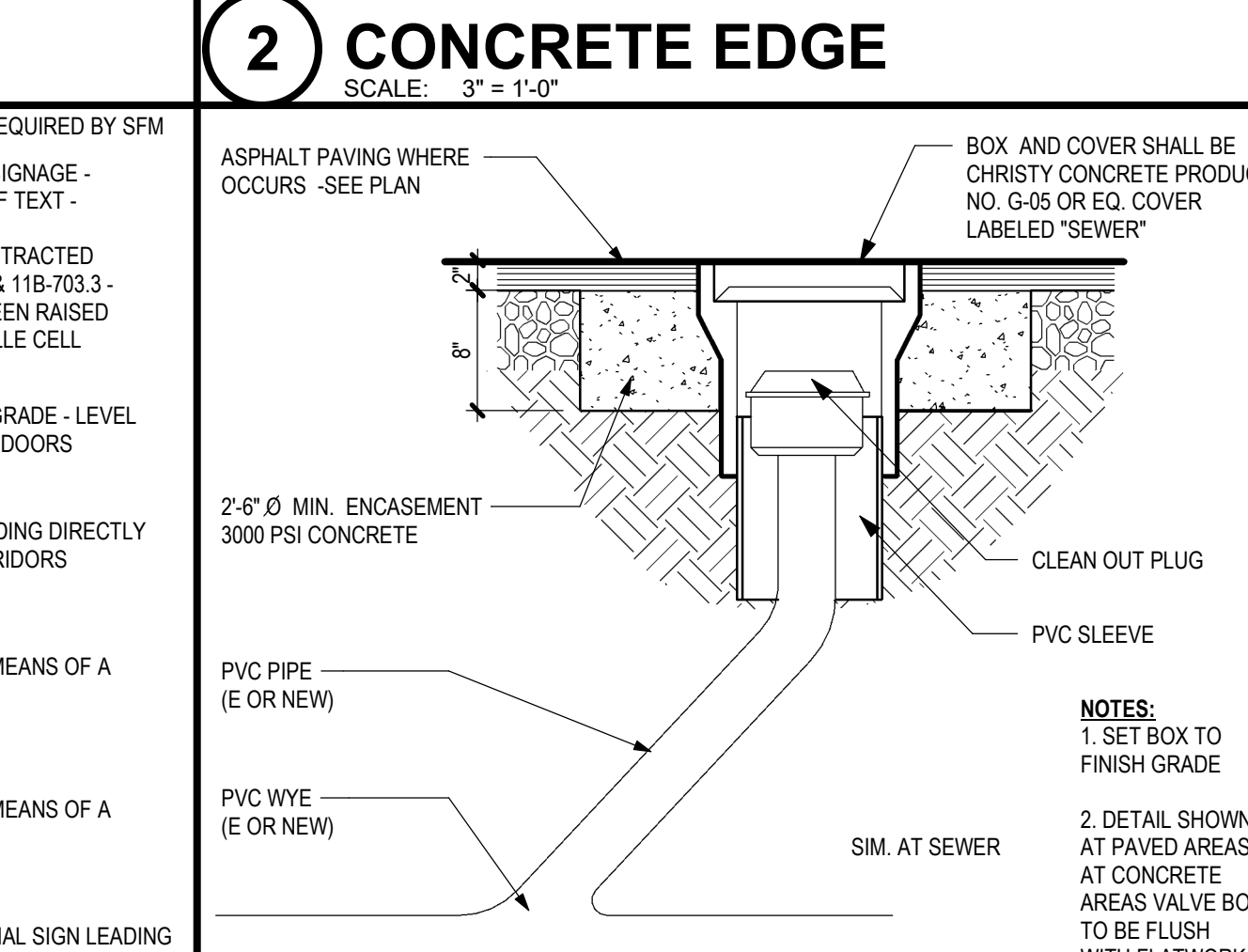
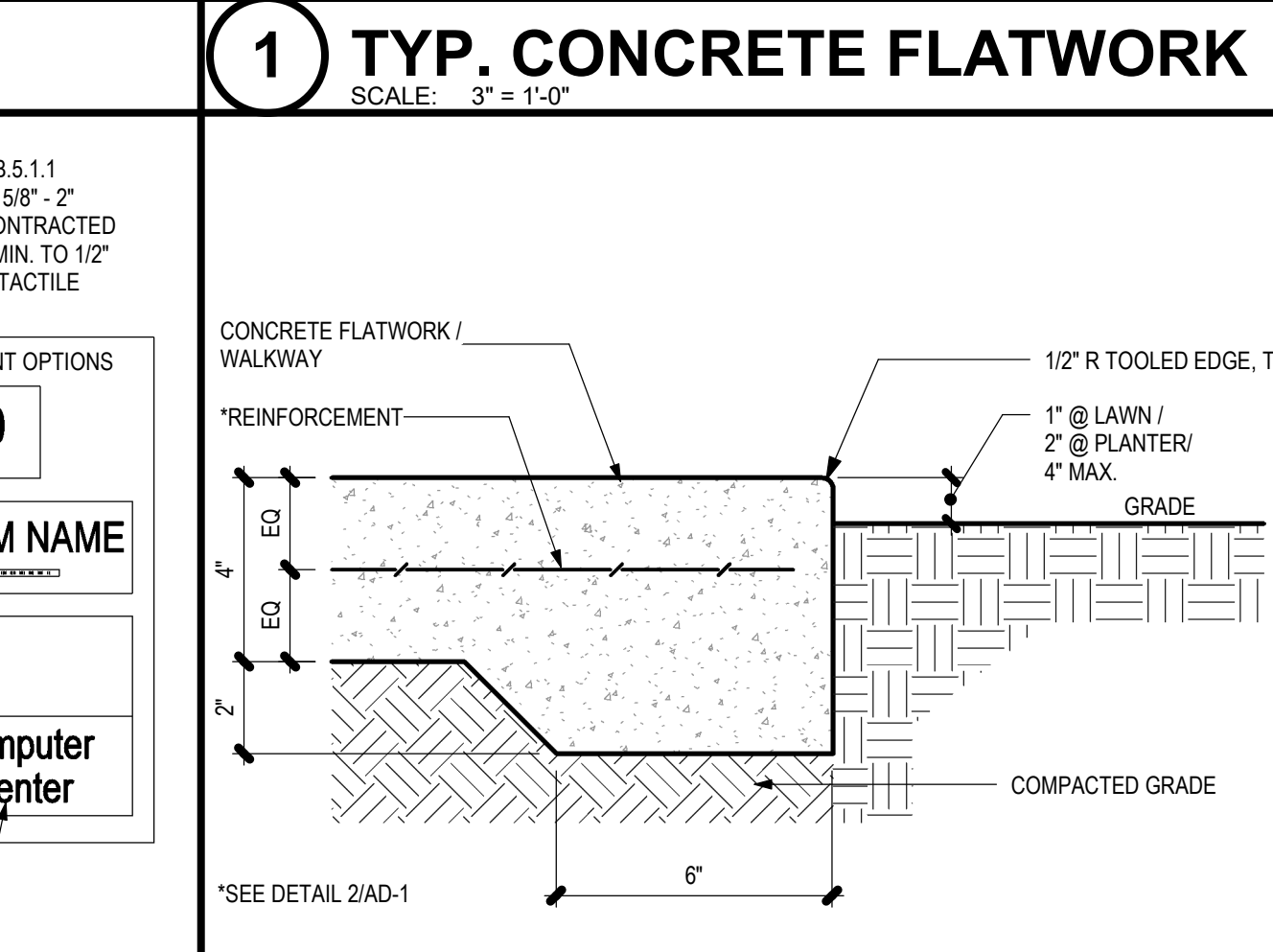
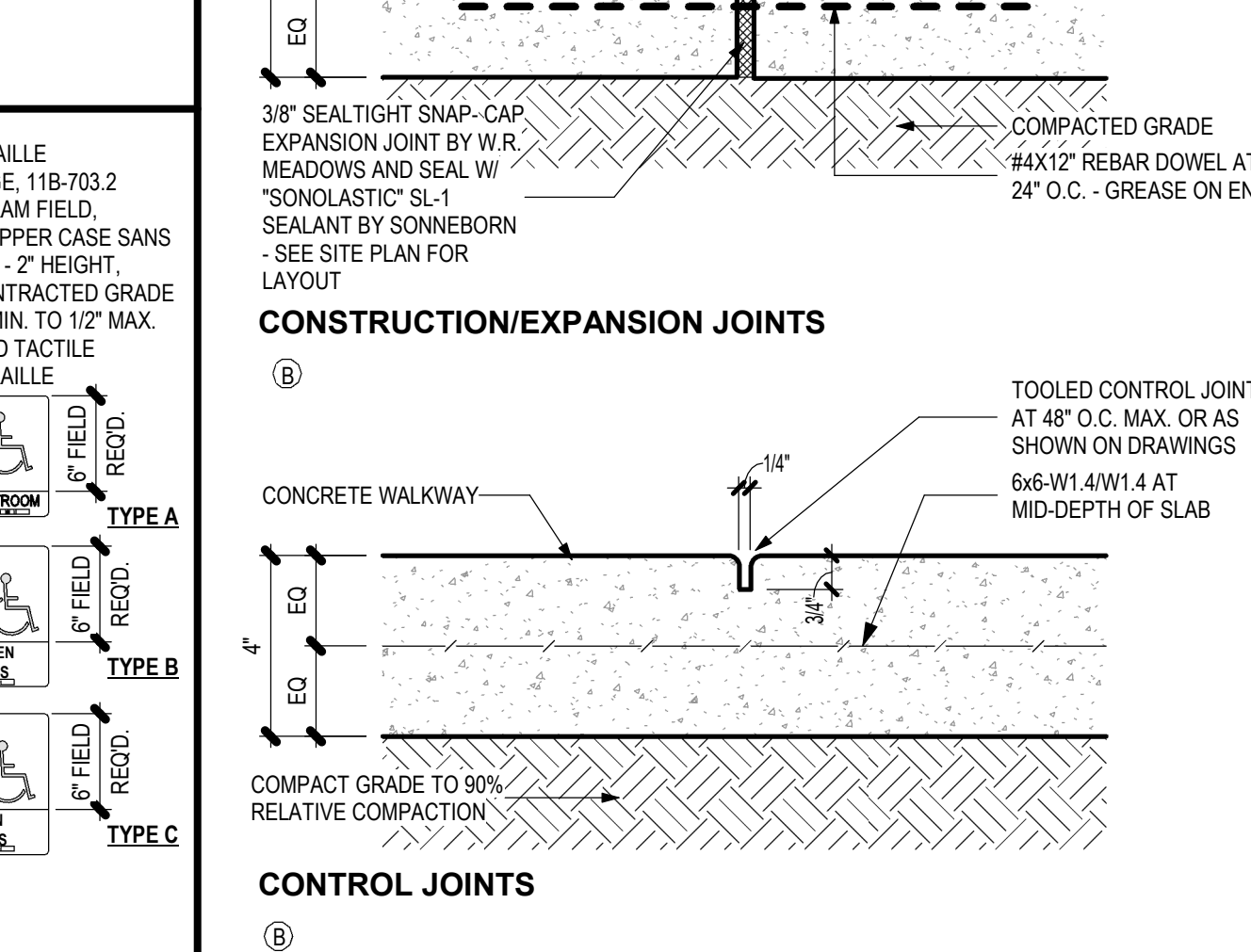
SCALE: 3" = 1'-0"

**7 SIGNAGE-EXIT DOOR**

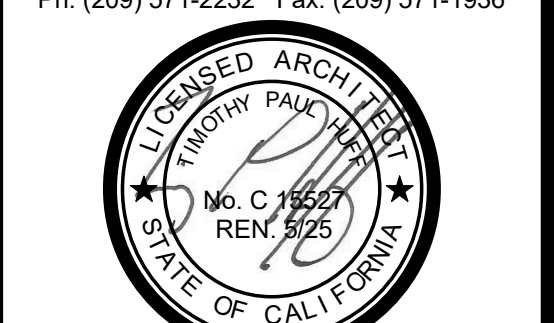
SCALE: 1/2" = 1'-0"

**3 STORM DRAIN CLEANOUT**

SCALE: 1" = 1'-0"



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ROBERTS FERRY SCHOOL DISTRICT

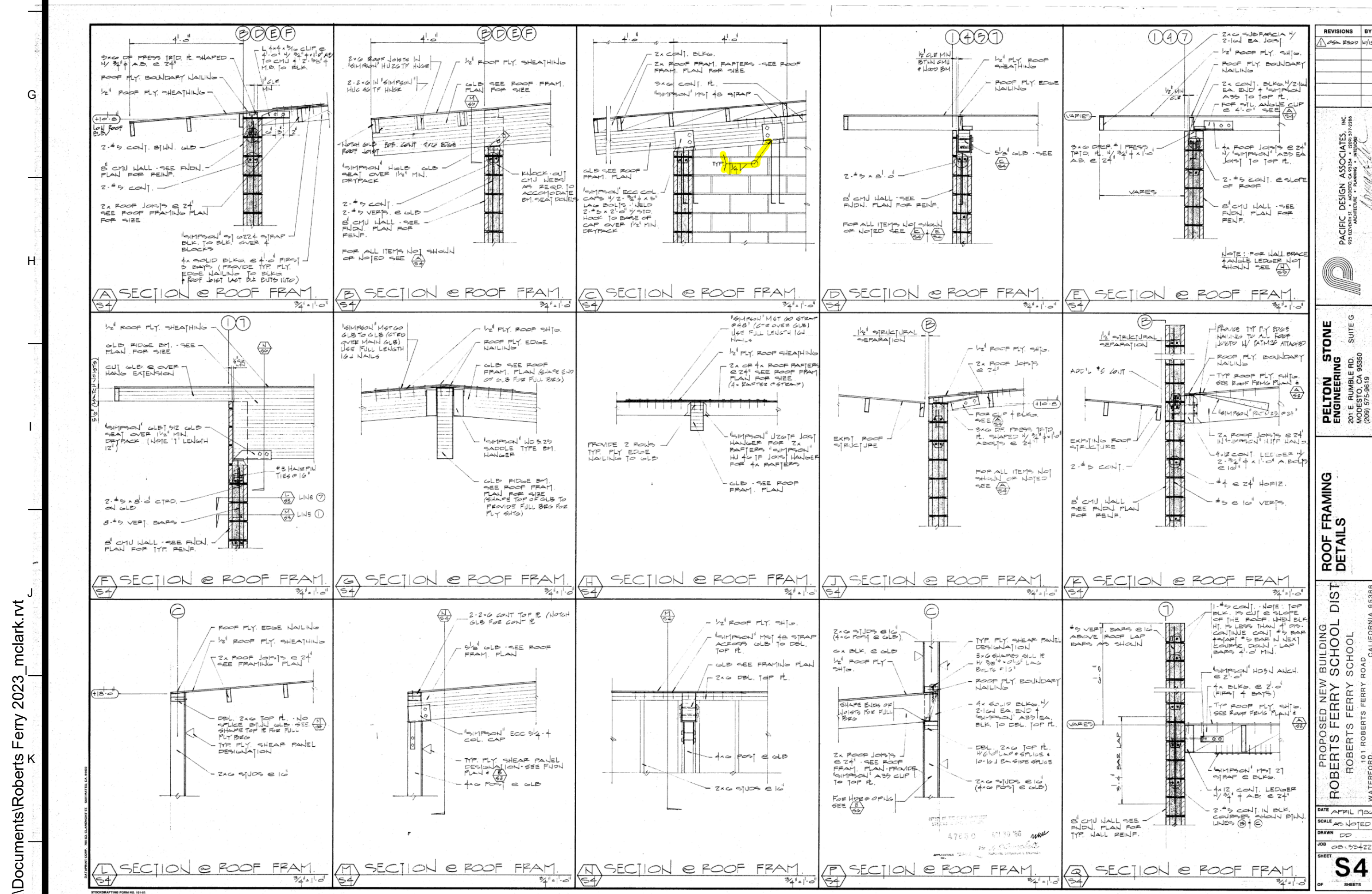
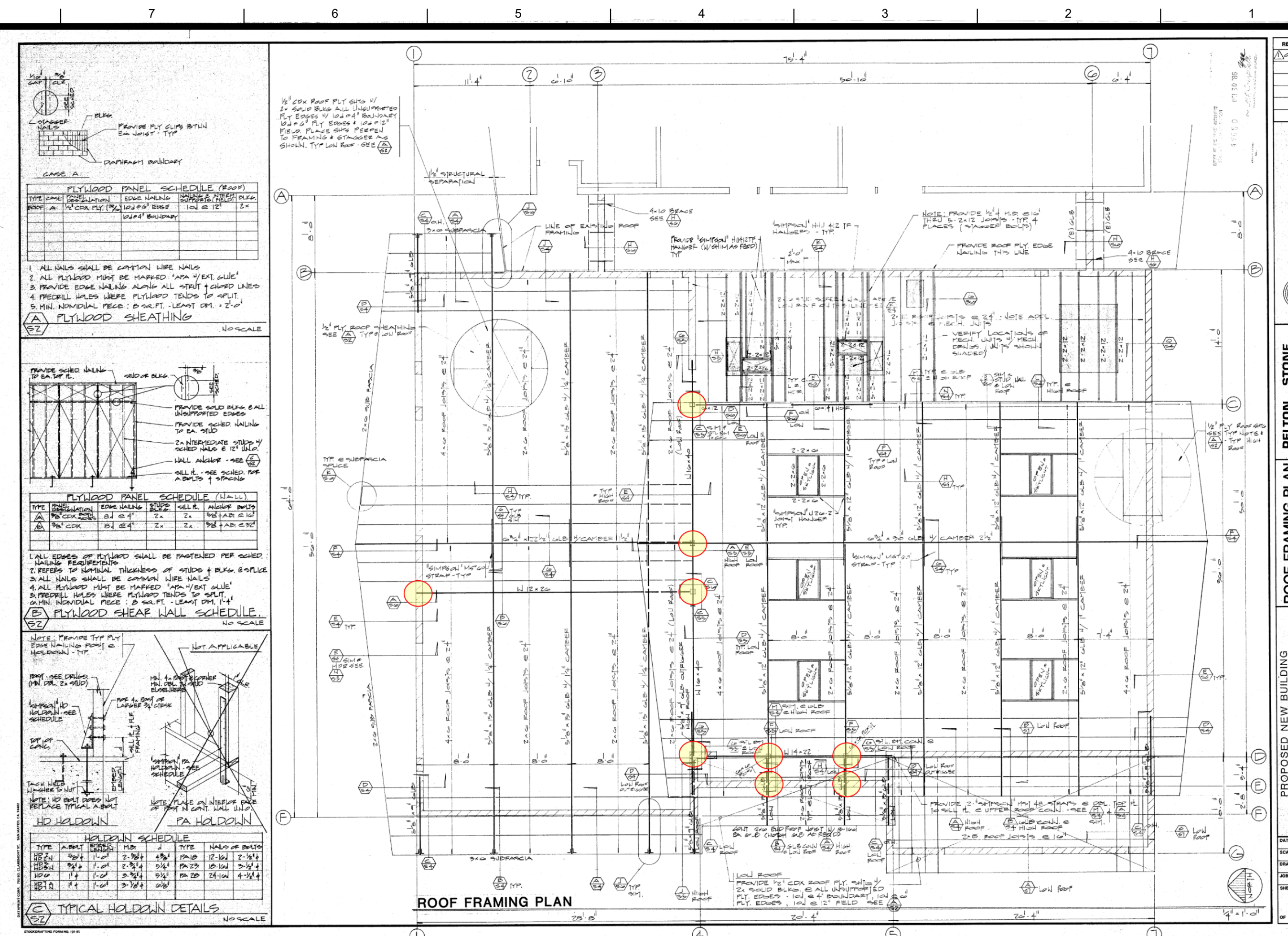
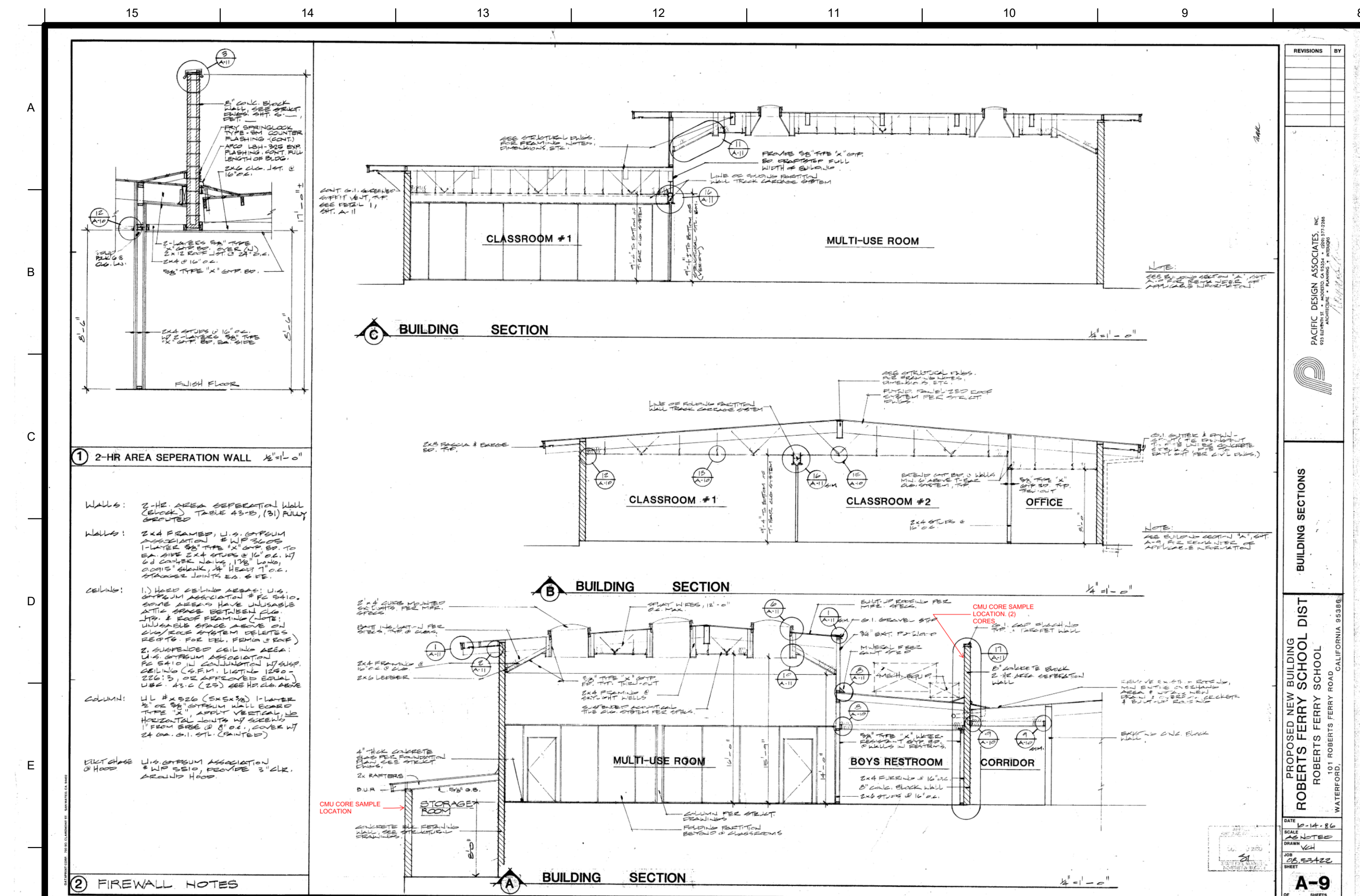
DETAILS

Project Number 2326  
Date OCT 2023  
Drawn by RRM  
Checked by JH

**AD.1**  
Plot Date & Time 4/9/2024 4:49:07 PM

**REBID - April 14, 2024**

C:\Users\mclark\Documents\Roberts Ferry 2023\_mclark.rvt



**ADSA 311**  
**REQUEST FOR EXAMINATION FOR CERTIFICATION USING EDUCATION CODE 17315(b)/81147(b)**

**PROJECT INFORMATION**

Project Name: <b>Roberts Ferry Multi-Use/Kitchen/Classroom Building</b>	DSA File #: <b>50 - 41</b>
School District: <b>Roberts Ferry EUSD</b>	DSA App. #: <b>02 - 47650</b>

This district is requesting the Division of the State Architect to re-examine the referenced project for certification using California Education Code section 17315(b)/81147(b).

The referenced project has been constructed in accordance with the approved plans and specifications but final verified reports, as are required under California Education Code section 1730981141, have not been submitted to the Department of General Services due to the incapacitating illness, death or the default of persons required to file such reports. Therefore, the district is requesting the Division of the State Architect (DSA) review all of the project records and make such examinations as it deems necessary to enable it to certify that the project otherwise complies with the requirements of the applicable California Education Code Article governing public school construction. The person signing below is verifying that the following documents missing from the DSA files were not submitted due to the incapacitating illness, death or the default of persons required to file such documents.

**DOCUMENTS MISSING FROM DSA FILES**

- Project Inspector FVR
- Contractor FVR
- Geotechnical DSA 293
- Masonry core test
- Shop & Field Welding DSA 291
- Special Inspector - Masonry

**DISTRICT STATEMENT OF RESPONSIBILITY**  
I certify, under penalty of perjury, under the laws of the State of California, that the information reported on this form is true and correct.

Signature of Owner: (See note below) \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name and Title: \_\_\_\_\_

Work Email: \_\_\_\_\_ Work Phone: \_\_\_\_\_

Work Mailing Address: \_\_\_\_\_

**Note: Person signing this form must be one of the following (or hold a district equivalent position): a school district superintendent; community college chancellor; school/community college district chief business officer; chief financial officer.**

Submit completed form to the DSA Regional Office with construction oversight authority for the project.

<input type="checkbox"/> DSA Oakland Region 1515 Clay Street, Suite 1201 Oakland, CA 94612	<input type="checkbox"/> DSA Sacramento Region 1102 Q Street, Suite 5200 Sacramento, CA 95811	<input type="checkbox"/> DSA Los Angeles Region 355 S. Grand Ave., Suite 2100 Los Angeles, CA 90071	<input type="checkbox"/> DSA San Diego Region 10920 Via Frontera Rd., Suite 300 San Diego, CA 92127
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DGS DSA 311 (rev 01/09/19) Page 1  
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

**ADSA 312**  
**APPLICATION FOR APPROVAL OF A/E CERTIFICATION PROGRAM**

This form shall be completed by the Architect or Structural Engineer in General Responsible Charge of the A/E Certification program. The A/E certification program is described in detail as Alternative Certification Process Type E in the Project Certification Guide. It is a program to facilitate the certification of projects through a post-construction evaluation program developed by licensed design professionals qualified to perform a comprehensive review of as-built conditions of uncertified projects to resolve issues that cannot be addressed with available documentation.

**COMPLETE THE SECTION BELOW**

School District/Owner: <b>Roberts Ferry EUSD</b>	DSA File #: <b>50 - 41</b>
Project Name/School: <b>Roberts Ferry Multi-Use/Kitchen/Classroom Building</b>	DSA App. #: <b>02 - 47650</b>

Scope: **Multi-Use/Kitchen/Classroom Building**

I have been employed by the school district as the design professional in charge of the A/E certification program for the above noted project. As such, I am requesting DSA to provide to me access to all available records for the project. In addition, I am requesting DSA to issue to me a completed form DSA 313.

Check this box if you were the design professional in general responsible charge of the original project.

Applicant Name: <b>Nicholas Fahmy, S.E.</b>	CA Registration No: <b>55998</b>
Email: <b>nisk@pwf-eng.com</b>	Phone Number: <b>(209) 575-9619</b>
Address: <b>2813 Coffee Rd., Suite D1</b>	City: <b>Modesto</b> State: <b>CA</b> Zip: <b>95355</b>
Applicant Signature: _____	Date Submitted: <b>03/25/24</b>

Provide a description and analysis of the unresolved issues preventing certification.

- Form DSA 6 - Final Verified Report - Project Inspector
- Masonry Core Test Report
- Form DSA 6 A/E - Final Verified Report - Architect
- Form DSA 6 A/E - Final Verified Report - Contractor
- Form DSA 291 - Testing Laboratory Affidavit, Twinning
- Form DSA 291 - Shop Welding and Fabrication Affidavit
- Form DSA 291 - Field Welding Affidavit
- Form DSA 292 - Special Inspector - Masonry

Provide a description of the post-construction evaluation program proposed to address and resolve the issues described above.

Form DSA 6 - Final Verified Report - Project Inspector - District will hire a project inspector and provide DSA-5PI.  
Form DSA 6 A/E - Final Verified Report - Architect - Architect to provide form DSA 6 A/E.  
Form DSA 6 A/E - Final Verified Report - Contractor - This form is not available.  
Form DSA 291 - Testing Laboratory Affidavit - District will hire testing lab to complete testing forms.  
Form DSA 291 - Shop Welding and Fabrication Affidavit - Welding inspector will review shop and field welds where accessible above ceiling.  
Form DSA 291 - Field welding affidavit will be provided by welding inspector.  
Form DSA 292 - Original Special Inspector records of the masonry were located in the files and will be provided for review/approval.  
Masonry Core Test Report - Original records were found of the testing performed on the CMU units, mortar, and grout and will be provided for review/approval for core test locations.  
Unidentified Steel Test Report - TSS5x3/8 - A Special Inspector will review unidentified steel and sample if needed.  
Shop Welding Inspection and/or Testing Report - Shop welds will be inspected in field. See drawings for locations.

Submit completed form to the DSA Regional Office with construction oversight authority for the project.

<input type="checkbox"/> DSA Oakland Region 1515 Clay Street, Suite 1201 Oakland, CA 94612	<input type="checkbox"/> DSA Sacramento Region 1102 Q Street, Suite 5200 Sacramento, CA 95811	<input type="checkbox"/> DSA Los Angeles Region 355 S. Grand Ave., Suite 2100 Los Angeles, CA 90071	<input type="checkbox"/> DSA San Diego Region 10920 Via Frontera Rd., Suite 300 San Diego, CA 92127
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DGS DSA 312 (issued 05/15/15) Page 1 of 1  
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

**TPH architects**

**TIMOTHY P. HUFF & ASSOCIATES, INC.**  
Timothy P. Huff, AIA Architect  
519 McHenry Ave., Modesto, CA 95354  
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REGISTERED ARCHITECT  
No. C 19527  
REN. SIZE  
STATE OF CALIFORNIA

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**ROBERTS FERRY TK & KG CLASSROOM**

101 ROBERTS FERRY RD., WATERFORD, CA 95386

ROBERT FERRY SCHOOL DISTRICT

**CLOSEOUT REQUIREMENTS**

Project Number	2326
Date	OCT 2023
Drawn by	Author
Checked by	Checker

**CO1.1**

Plot Date & Time 4/9/2024 4:27:52 PM

**REBID - April 14, 2024**



260500 ELECTRICAL WORK FOR COMMON RESULTS.

1. ELECTRICAL INSTALLATION SHALL COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, INCLUDING THE FOLLOWING: TITLE 24, CCR, PART 2, 2022 CBC TITLE 24, CCR, PART 3, 2022 CEC TITLE 24, CCR, PART 4, 2022 CMC TITLE 24, CCR, PART 9, 2022 CFC TITLE 24, CCR, PART 6, 2022 CALIFORNIA ENERGY CODE TITLE 24, CCR, PART 11, 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE ALL APPLICABLE LOCAL CODES

2. ELECTRICAL CONTRACTOR SHALL VERIFY POWER, TELEPHONE AND CABLE TV SERVICES AT SITE PRIOR TO BIDDING. SERVICES TO CONFORM TO UTILITY COMPANY REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL ARRANGE FOR SERVICE INSTALLATIONS PER UTILITY COMPANY REQUIREMENTS AND PAY ALL CUSTOMER CHARGED SERVICE COSTS. COORDINATE WITH OWNER AND UTILITY COMPANY FOR SERVICE INSTALLATION.

3. CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, LICENSES, ETC. REQUIRED TO CARRY ON AND COMPLETE THE WORK.

4. PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND PERFORM ALL OPERATIONS NECESSARY FOR ANY REASONABLE INCIDENTAL TO PROPER EXECUTION AND COMPLETION OF ALL "ELECTRICAL WORK" WHETHER SPECIFICALLY MENTIONED OR NOT, ALL AS INDICATED, SPECIFIED HEREIN, AND/OR IMPLIED THEREBY TO CARRY OUT THE APPARENT INTENT THEREOF.

5. ALL MATERIALS SHALL BE NEW AND LISTED WITH THE UNDERWRITERS' LABORATORIES, INC., SHALL MEET THEIR REQUIREMENTS AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY.

6. ELECTRICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT AND INSTALLING HIS WORK TO AVOID INTERFERENCE WITH OTHER TRADES.

7. WORK SHOWN ON THE DRAWINGS TO BE INSTALLED UNDERGROUND SHALL BE INSTALLED AT LEAST 24" BELOW GRADE UNLESS OTHERWISE NOTED. BACKFILL IN 6" THICK, PROPERLY MOISTENED LAYERS, SOLIDLY PACKED AND IRON TAMPED TO A DENSITY NOT LESS THAN THAT OF ADJACENT UNDISTURBED EARTH. RESTORE SURFACES, ROADWAYS, WALKS, CURBS, WALLS AND EXISTING UNDERGROUND INSTALLATIONS TO ORIGINAL CONDITION IN AN ACCEPTABLE MANNER.

8. ALL ELECTRICAL EQUIPMENT EXPOSED TO THE WEATHER SHALL BE LISTED FOR EXTERIOR USE.

9. ALL U.L. LISTED EQUIPMENT SHALL BE INSTALLED AS PER THEIR LISTING OR LABELING.

10. IN LOCATIONS WHERE ELECTRICAL EQUIPMENT WOULD BE EXPOSED TO PHYSICAL DAMAGE, ENCLOSURES OR GUARDS SHALL BE SO ARRANGED AND OF SUCH STRENGTH AS TO PREVENT SUCH DAMAGE.

11. CONFLICTS BETWEEN SPECIFICATIONS AND PLANS:

a. ANY CONFLICT BETWEEN ELECTRICAL SPECIFICATIONS AND ELECTRICAL PLANS; OR BETWEEN ELECTRICAL PLANS AND ANOTHER DISCIPLINE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND A RESOLUTION RECEIVED PRIOR TO PROCUREMENT OR INSTALLATION OF THE ITEM IN QUESTION.

b. IF THE CONTRACTOR PROCEEDS WITH THE WORK WITHOUT RECEIVING ANY RESOLUTION TO THE CONFLICT HE/SHE DOES SO AT HIS/HER OWN RISK AND SHALL RECTIFY THE WORK TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER.

260500.02 SUBMITTALS:

1. PROVIDE THE FOLLOWING SUBMITTALS FOR REVIEW AND APPROVAL. EACH SHALL BE SUBMITTED SEPARATELY TO AVOID DELAYS IN THE REVIEW OF ONE SUBMITTAL IN HOLDING UP REVIEW OF THE REMAINDER.

- a. BASIC ELECTRICAL MATERIALS
b. LIGHT FIXTURES
c. FIRE ALARM
d. COMMUNICATIONS EQUIPMENT

260500.03 WORKING CLEARANCES FOR ELECTRICAL SWITCHGEAR:

1. PROVIDE WORKING SPACES FOR ELECTRICAL PANELS AND SWITCHGEAR TO COMPLY WITH CEC 110.26.

2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES INVOLVED TO ENSURE THE CLEARANCES REQUIRED BY ITEM 1 ABOVE ARE PROVIDED.

260526 GROUNDING:

1. GROUND AND BOND ALL EQUIPMENT AS REQUIRED BY GOVERNING CODES AND SPECIFICALLY INCLUDING SWITCHBOARD, PANELBOARDS, MOTOR CASES, METAL PIPING SYSTEMS, STRUCTURAL STEEL, ETC.

2. PROVIDE GROUND WIRES IN ALL FEEDERS AND BRANCH CIRCUITS, SIZE PER CEC TABLE 250.122

3. ALL GROUND WIRES SHALL BE INSULATED GROUND WIRES.

260529 INSTALLATION OF SUPPORT SYSTEMS

1. RACEWAYS, CABLE ASSEMBLIES, BOXES, CABINETS, AND FITTINGS SHALL BE SECURELY FASTENED IN PLACE PER CEC ARTICLE 300.11. SUPPORT WIRES THAT DO NOT PROVIDE SECURE SUPPORT SHALL NOT BE PERMITTED AS THE SOLE SUPPORT. SUPPORT WIRES AND ASSOCIATED FITTINGS THAT PROVIDE SECURE SUPPORT AND THAT ARE INSTALLED IN ADDITION TO THE CEILING GRID SUPPORT WIRES SHALL BE PERMITTED AS THE SOLE SUPPORT. WHERE INDEPENDENT SUPPORT WIRE ARE USED, THEY SHALL BE SECURED AT BOTH ENDS. CABLES AND RACEWAYS SHALL NOT BE SUPPORTED BY CEILING GRIDS.

2. FURNISH ALL NECESSARY FOUNDATIONS, SUPPORTS, BACKING, ETC., FOR ALL ELECTRICAL ENCLOSURES, CONDUITS AND EQUIPMENT.

3. ATTACH ALL BOXES, CABINETS, ETC. TO WOOD WITH WOOD OR LAG SCREWS, TO METAL WITH MACHINE SCREWS OR BOLTS AND TO CONCRETE WITH EXPANSION ANCHORS AND MACHINE SCREWS OR BOLTS.

2. RIGID STEEL CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT GREATER THAN 10 FT, ELECTRICAL METALLIC TUBING AT INTERVALS NOT GREATER THAN 5 FT.

3. A SUPPORT SHALL BE PROVIDED NOT MORE THAN 3 FT. FROM ANY CHANGE IN DIRECTION. ADDITIONAL SUPPORTS TO THOSE SPECIFIED ABOVE SHALL BE INSTALLED WHERE REQUIRED TO SUIT JOB CONDITIONS AND TO PROVIDE A SECURE INSTALLATION. ALL HANGERS AND SUPPORTS SHALL BE THE PRODUCTS OF ONE MANUFACTURER.

260533 PULL OR JUNCTION BOXES:

1. INSTALL WHERE INDICATED, OR AS REQUIRED BY CODE, PULL BOXES AND JUNCTION BOXES OF SUFFICIENT SIZE AND CAPACITY TO FACILITATE ALL WIRING. BOXES SHALL BE SIZED TO PROPERLY ACCOMMODATE ALL CONDUCTORS ENTERING SAME.

2. BOXES SHALL BE OF THE SHAPE AND SIZE BEST SUITED FOR THE PARTICULAR APPLICATION AND SHALL BE SUPPORTED DIRECTLY TO STRUCTURAL MEMBERS, FRAMING OR BLOCKING BY MEANS OF SCREWS, ANCHORS, BOLTS OR EMBEDDED IN MASONRY.

A. SWITCH AND RECEPTACLE BOX SHALL BE ONE PIECE DRAWN OR STAMPED STEEL BOXES MINIMUM SIZE SHALL BE FOUR INCHES (4") SQUARE. BOXES SHALL BE FITTED WITH FLUSH DEVICE COVERS, PLASTER RINGS, OR TILE SWITCH RINGS IN AREA WHERE EXPOSED WIRING IS PERMISSIBLE, BOXES SHALL BE FITTED WITH SURFACE TYPE COVERS.

D. WEATHERPROOF BOXES SHALL BE APPLETON FD SERIES AND FITTED WITH GASKETED CAST COVERS.

E. VOICE/DATA OUTLET BOXES SHALL BE 4\_11/16"SQ.x2\_1/8" DEEP MINIMUM, FITTED WITH PLASTER RINGS.

F. BOXES FOR SPECIAL EQUIPMENT SHALL BE SUITABLE FOR THE PARTICULAR EQUIPMENT.

G. BOXES SHALL BE LOCATED AND PLACED ACCORDING TO ARCHITECTURAL AND STRUCTURAL REQUIREMENTS.

260550 WIRING METHODS: LINE VOLTAGE SYSTEMS (120V AND ABOVE):

1. ALL WIRING SHALL BE INSTALLED IN CONDUITS. CONDUITS SHALL BE RUN CONCEALED IN WALLS AND CEILINGS WHERE FEASIBLE. ALL CONDUITS INSTALLED SURFACE ON WALL SHALL BE PAINTED TO MATCH WALL FINISH. MOUNT EXTERIOR CONDUITS ON WALL ON GALVANIZED UNISTRUTS. ALL SURFACE CONDUIT INSTALLATION/ RUNS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.

2. ALL CONDUITS RUN WITHIN INTERIOR FINISHED SPACES SUCH AS OFFICES, BREAKROOM, RESTROOM ETC. SHALL BE RUN CONCEALED.

3. ALL CONDUITS RUN IN DEDICATED ELECTRICAL AND MECHANICAL ROOMS SHALL BE RUN EXPOSED.

4. MINIMUM CONDUIT SIZE SHALL BE 1/2" ABOVE GRADE AND 3/4" UNDERGROUND.

5. MINIMUM ACCEPTABLE CONDUITS ARE:

- A. GALVANIZED RIGID STEEL - FOR USE ON: (1) EXTERIOR WALL SURFACES.
B. GALVANIZED STEEL EMT FOR USE: (1) CONCEALED IN INDOOR FINISHED SPACES. (2) EXPOSED INSIDE ELECTRICAL & MECHANICAL ROOMS.

C. LIQUID TIGHT STEEL FLEX: (1) FOR FINAL CONNECTION TO OUTDOOR EQUIPMENT. LENGTH SHALL NOT EXCEED 36".

D. FLEXIBLE STEEL CONDUIT: (1) FOR INDOOR FINAL CONNECTION TO RECESSED LIGHT FIXTURES. LENGTH SHALL NOT EXCEED 72". (2) FOR INDOOR FINAL CONNECTION TO HVAC EQUIPMENT. LENGTH SHALL NOT EXCEED 36".

E. "PVC" SCHEDULE 40: (1) FOR CONDUITS RUN UNDERGROUND AND FOR UNDER BUILDING SLAB. (2) CONDUIT STUBUPS THROUGH THE FLOOR OR GRADE SHALL BE IN PVC WRAPPED RIGID STEEL CONDUIT. PVC WRAPPING SHALL EXTEND 6" ABOVE FINISHED FLOOR OR GRADE. (3) NOT PERMITTED FOR WIRING ABOVE FINISHED FLOOR INSIDE BUILDINGS

F. ALUMINUM CONDUITS, IMC CONDUITS OR ALUMINUM FITTINGS ARE NOT APPROVED FOR USE ON THIS PROJECT.

G. ALL CONDUIT FITTINGS SHALL BE MALLEABLE IRON/STEEL.

H. COUPLING: (1) EMT COUPLING - APPLETON TWC-CS SERIES (2) EMT CONNECTOR - APPLETON TWC-CSI SERIES (3) FLEX CONDUIT CONNECTOR - T&B "TITE BITE", INSULATED (4) LIQUID TIGHT FLEX CONDUIT CONNECTOR - APPLETON "STB" SERIES UP TO 2", "ST" SERIES OVER 2".

I. RIGID STEEL CONDUIT CONNECTED TO BOXES AND CABINETS SHALL BE FITTED WITH TWO LOCKNUTS AND INSULATING BUSHING, OA "A" SERIES. PROVIDE GROUNDING BUSHING OZ "BL" SERIES WHERE LOCKNUTS AND BUSHING IS NOT USED. CONDUITS CONNECTED TO BOXES EXPOSED TO WEATHER/MOISTURE SHALL BE FITTED WITH WATERTIGHT SEALING HUBS OF STEEL OR MALLEABLE IRON WITH SEALING RING AND INSULATED THREAT, T & B 370 SERIES.

J. TYPE NM AND NMC CABLES SHALL NOT BE USED ON THIS PROJECT.

6. CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE THHN/THWN UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.

7. ALL DEVICES, CONDUITS, RACEWAYS AND CABLES SHOWN ARE NEW TO BE PROVIDED UNLESS OTHERWISE NOTED.

8. FLASH AND COUNTERFLASH ALL ITEMS PASSING THROUGH THE ROOF.

9. THE OWNER RESERVES THE RIGHT TO RELOCATE ALL LIGHTING, OUTLETS AND SWITCHES BEFORE THEY ARE ROUGHED IN AT NO EXTRA COST.

10. SEPARATION OF WIRING OF DIFFERENT VOLTAGE CLASSIFICATIONS:

A. WIRING FOR DIFFERENT VOLTAGE CLASSIFICATIONS SHALL BE INSTALLED IN ENTIRELY SEPARATE RACEWAYS/CONDUITS SYSTEM AND ENCLOSURES/BOXES.

1. ROOF TOP CONVENIENCE OUTLETS FOR SERVICING ROOF TOP EQUIPMENT.

2. LINE VOLTAGE CONTROLS FOR ROOF TOP HVAC AND OTHER REQUIREMENTS.

C. DISCONNECTS SHALL NOT BE USED AS THROUGH RACEWAYS FOR WIRING NOT DIRECTLY SERVING THE DISCONNECTS. SERVICING OUTLETS SHALL NOT BE MOUNTED ON DISCONNECTS.

260551 INSTALLATION OF RACEWAYS AND FITTINGS

1. CONCEAL RACEWAYS WITHIN CEILINGS, WALLS, AND FLOORS EXCEPT WHERE EXPOSED RACEWAYS ARE SPECIFICALLY PERMITTED.

2. WHERE CONDUIT IS ALLOWED TO BE EXPOSED, INSTALL THE CONDUIT PARALLEL WITH OR AT RIGHT ANGLES TO STRUCTURAL MEMBERS, WALLS, AND LINES OF THE BUILDING.

3. INSTALL WHERE INDICATED, OR AS REQUIRED BY CODE, PULLBOXES AND JUNCTION BOXES OF SUFFICIENT SIZE TO FACILITATE WIRING. BOXES SHALL BE SIZED TO PROPERLY ACCOMMODATE ALL CONDUCTORS ENTERING SAME.

4. DO NOT INSTALL CONDUIT OR TUBING WHICH HAS BEEN CRUSHED OR DEFORMED.

5. RUN CONDUCTORS OF SAME CIRCUIT IN SAME CONDUIT. RUN CONDUCTORS OF DIFFERENT VOLTAGE SYSTEMS IN SEPARATE CONDUITS.

6. INSTALL NO CONDUCTORS UNTIL WORK WHICH MIGHT CAUSE DAMAGE TO SUCH CONDUCTORS OR THE CONDUIT HAS BEEN COMPLETED.

7. KEEP ALL CONDUITS AT LEAST SIX INCHES AWAY FROM THE COVERING ON HOT WATER OR STEAM PIPES.

8. CAP RACEWAY ENDS DURING CONSTRUCTION. CLEAN OR REPLACE CONDUITS IN WHICH WATER OR FOREIGN MATTER HAVE ACCUMULATED, TO THE SATISFACTION OF THE ARCHITECT.

9. CONDUITS SHALL BE SUPPORTED WITH STRAPS, WITH GALVANIZED MALLEABLE SPLIT RING AND ROD FOR INDIVIDUAL RUNS OR WITH KINDORF OR UNISTRUT CHANNEL SUPPORTS FOR MULTIPLE RUNS. DISTANCE BETWEEN SUPPORTS SHALL NOT EXCEED 10 FEET. CONDUITS SHALL BE SUPPORTED INDEPENDENTLY OF ONE ANOTHER.

10. CONDUITS CONNECTED TO BOXES AND CABINETS SHALL BE FITTED WITH TWO LOCKNUTS AND INSULATED BUSHING, OA "A" SERIES.

11. CONDUITS NOT CONNECTED WITH LOCKNUTS AND BUSHINGS SHALL BE FITTED WITH GROUNDING BUSHING, OZ "BL" SERIES, U. L. APPROVED AND BONDED.

12. CONDUIT STRAPS FOR INDIVIDUAL RUNS SHALL BE SECURED BY TOGGLE BOLTS ON HOLLOW MASONRY, EXPANSION ANCHORS ON SOLID CONCRETE OR MASONRY, MACHINE SCREWS OR BOLTS ON METAL SURFACES AND WOOD SCREWS ON WOOD CONSTRUCTION. THE USE OF NAILS TO ANCHOR STRAPS ON WOOD CONSTRUCTION IS PROHIBITED. STRAPS SHALL BE TWO HOLE MALLEABLE IRON OR SNAP-TYPE STEEL WITH RIBBED BACK, GALVANIZED OR CADMIUM PLATED. THE USE

13. PLACEMENT OF ALL BOXES SHALL BE GOVERNED BY APPLICABLE ARCHITECTURAL AND STRUCTURAL REQUIREMENTS.

14. CONDUIT FITTINGS: EXCEPT WHERE OTHERWISE NOTED, CONDUIT FITTINGS SHALL BE APPLETON OR APPROVED EQUAL. UNILETS SHALL BE MALLEABLE IRON AND FITTED WITH COVERS AND GASKETS.

15. TELEPHONE AND SIGNAL CONDUIT BENDS WHERE REQUIRED SHALL HAVE A RADIUS OF TEN TIMES THE CONDUIT TRADE SIZE.

16. PROVIDE PULL TAPE IN ALL EMPTY CONDUITS.

260553 NAMEPLATES & IDENTIFICATION:

1. INSTALL ENGRAVED NAMEPLATES FOR EACH PANELBOARD, CABINET, DISCONNECT, ETC. NAMEPLATES SHALL BE SECURELY FASTENED TO THE EQUIPMENT WITH #4 PHILLIPS ROUND HEAD CADMIUM PLATED SELF-TAPPING SCREWS, BRASS BOLT.

2. PROVIDE CIRCUIT LABEL INDICATING PANEL AND CIRCUIT NUMBER ON EACH COVERPLATE FOR EACH RECEPTACLE AND LIGHT SWITCH, MOTION SENSOR SWITCH. SUCH LABEL SHALL BE SELF ADHESIVE WHITE TAPE WITH BLACK LETTERS MADE ON A LABEL MAKER.

260573 ARC FLASH HAZARDS:

1. PROVIDE WARNING LABEL ON ELECTRICAL EQUIPMENT OF POSSIBLE ARC FLASH HAZARDS PER C.E.C. 110.16.

262726 WIRING DEVICES:

- 1. UNITS SHALL BE EQUAL TO THE DEVICES SET FORTH HEREIN, IN STANDARD COLORS (BROWN, WHITE, GREY, BEIGE OR IVORY) AS SELECTED BY THE ARCHITECT:
A. WIRING DEVICES LEVITON # HUBBELL # P & S #
SINGLE POLE SWITCH, 15A 1201-2 HBL1201 PS15AC1
DOUBLE POLE SWITCH, 15A 1202-2 HBL1202 PS15AC2
THREE WAY SWITCH, 15A 1203-2 HBL1203 PS15AC3
DUPLEX CONV. OUTLET, 15A 5262 HBL5262 5262
DUPLEX CONV. OUTLET, 20A 5362 HBL5362 5362
DUPLEX CONV. GFI OUTLET, 15A 6599 GF15 1595L
DUPLEX CONV. GFI OUTLET, 20A 6899 GF15 2095L

2. THE CONTROLLED OUTLET SHALL HAVE PERMANENT UNIQUE MARKING PROVIDED BY THE MANUFACTURER OF THE RECEPTACLE.

3. THE MOUNTING HEIGHTS OF LIGHT SWITCHES, RECEPTACLES AND CONTROLS SHALL BE MAXIMUM 48" MEASURED TO THE TOP OF BOXES OR MINIMUM 16" TO THE BOTTOM OF BOXES. SEE "LEGEND" FOR ACTUAL MOUNTING HEIGHTS OF DEVICES. VERIFY HEIGHT WITH ARCHITECT WHERE AN ACTUAL MOUNTING HEIGHT IS NOT CALLED OUT ON PLANS.

4. SINGLE RECEPTACLE SERVED BY INDIVIDUAL 20A BRANCH CIRCUIT DEDICATED TO THE OUTLET SHALL BE 20A RATED PER CEC 210.21(B)(1). ALL OTHERS SHALL BE 15A RATED.

5. ALL 15A AND 20A, 120V OUTLETS IN KITCHEN SHALL BE GFCI PER CEC 210.8(B)(2). LOCATE SUCH OUTLETS SO THAT THEY ARE ACCESSIBLE AFTER APPLIANCES THAT ARE PLUGGED INTO THE OUTLETS ARE IN PLACE.

6. ALL RECEPTACLES INSTALLED OUTDOORS SHALL BE WEATHERPROOF AND HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION.

262726.01 CONTROLLED 120V RECEPTACLES:

1. CALIFORNIA ENERGY CODE, SECTION 130.5(d) NOW REQUIRES THAT BOTH CONTROLLED AND UNCONTROLLED 120V OUTLETS FOR PLUG LOADS BE PROVIDED IN THE FOLLOWING LOCATIONS:

- A. EACH PRIVATE OFFICE.
B. EACH OPEN OFFICE AREA.
C. RECEPTION LOBBY.
D. CONFERENCE ROOM.
E. KITCHENETTE AND BREAK ROOM IN OFFICE SPACES.
F. COPY ROOM.

2. CIRCUITS SERVING CONTROLLED RECEPTACLES SHALL BE AUTOMATICALLY BE SHUT-OFF IN ACCORDANCE WITH SECTION 130.1(c)1.

262726.02 DEVICE PLATES:

1. ALL DEVICE PLATES FOR INDOOR USE SHALL BE NYLON.

2. ALL DEVICE BOXES WHICH ARE INSTALLED IN FIRE RATED WALL ASSEMBLY AND IS PROVIDED WITH A FIRE-STOPPING PUTTY PAD SHALL HAVE A BRUSHED STAINLESS STEEL COVERPLATE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PUTTY PAD.

3. DEVICE COVERS FOR SURFACE MOUNTED BOXES SHALL BE 1/2" RAISED STEEL PLATES.

4. DEVICE COVERS FOR DEVICES LOCATED IN DAMP LOCATIONS SHALL COMPLY WITH CEC 406.9(A).

5. DEVICE COVERS FOR DEVICES LOCATED IN WET LOCATIONS SHALL COMPLY WITH CEC 406.9(B).

262729 DISCONNECT SWITCHES:

1. UNITS SHALL BE HEAVY DUTY FUSED DISCONNECT SWITCHES, TWO OR THREE POLE TYPE, WHERE INDICATED ON THE DRAWINGS, OR AS REQUIRED BY CODE. SWITCHES AND FUSES SHALL BE AS REQUIRED BY THE LOADS SERVING.

2. DISCONNECTS FOR FRACTIONAL HORSE POWER MOTORS SHALL BE MOTOR-RATED TOGGLE TYPE DISCONNECTS.

3. DISCONNECTS FOR SINGLE PHASE MOTORS SHALL BE SINGLE PHASE AND NOT THREE PHASE.

4. LOCATE DISCONNECTS IN ACCORDANCE WITH CEC 430.102. ENSURE ALL CODE-REQUIRED CLEARANCES.

265100 LIGHTING:

1. ALL LUMINARIES SHALL BE CERTIFIED BY THE MANUFACTURER TO THE CALIFORNIA ENERGY COMMISSION:

A. ALL LUMINARIES SPECIFIED ON THIS PROJECT SHALL BE AS NOTED IN THE "LIGHT FIXTURE SCHEDULE" ON THESE PLANS. NO SUBSTITUTES ARE PERMITTED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

265300 EXIT AND MEANS OF EGRESS EMERGENCY LIGHTING:

1. PROVIDE EXIT SIGNS IN ACCORDANCE WITH CBC SECTION 1011.1. PROVIDE MEANS OF EGRESS ILLUMINATION IN ACCORDANCE WITH CBC SECTION 1006. PROVIDE FLOOR-LEVEL EXIT SIGNS PER CBC 1011.7 IF REQUIRED

2. ELECTRICAL CONTRACTOR SHALL RE-VERIFY PLACEMENT OF ALL EXIT SIGNS AS TO ENSURE THAT THEY ARE CLEARLY VISIBLE FROM ANY DIRECTION OF APPROACH WITHIN THE PATH OF EXIT TRAVEL TO AND WITHIN EXITS INSIDE THE BUILDING. THIS VERIFICATION SHALL BE CARRIED OUT AT ROUGHIN STAGE. THEY SHALL BE LOCATED AS NECESSARY TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL. NO POINT IN THE EXIT PATH SHALL BE MORE THAN 100 FT. FROM THE NEAREST VISIBLE SIGN. ALL IN ACCORDANCE WITH CBC SECTION 1011.1. RELOCATE AND/OR ADD EXIT SIGNS AS NECESSARY TO ACHIEVE THIS. PROVIDE PENDANTS TO MOUNT SIGNS AS NECESSARY TO ACHIEVE THIS.

3. THE FINAL NUMBER AND LOCATION OF EXIT SIGNS SHALL BE DETERMINED IN THE FIELD BY THE FIRE MARSHALL AND BUILDING INSPECTOR.

4. INDIVIDUAL UNIT EQUIPMENT FOR EMERGENCY ILLUMINATION SHALL COMPLY WITH CEC SECTION 700.12(F). THE BRANCH CIRCUIT FEEDING THE UNIT EQUIPMENT SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES.

5. ALL EMERGENCY LIGHTS AND EXIT SIGNS SHALL BE PROVIDED WITH AN UNSWITCHED HOT WIRE.

6. ALL EMERGENCY LIGHT FIXTURES WITH INTEGRAL BATTERY BALLASTS SHALL BE SWITCHED AS SHOWN AND SHALL COME ON IN EMERGENCY POWER-OFF MODE UPON POWER FAILURE. TO THIS EFFECT PROVIDE AN UNSWITCHED POWER WIRE TO EACH SUCH FIXTURE FROM THE SAME CIRCUIT AS THAT FEEDING THE LIGHT FIXTURE.

MEP COMPONENT ANCHORAGE

APPLICABLE CODE: 2022 CBC

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

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

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A REAPPROVED INSTALLATION GUIDE (E.G., HAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

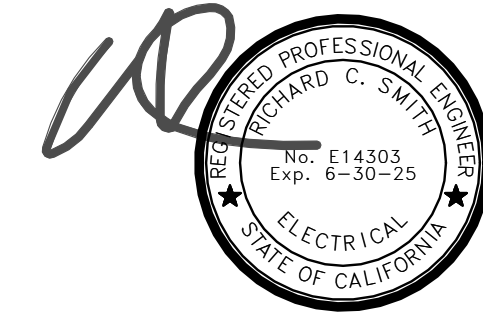
- MP [ ] MD [ ] PP [ ] E [X] OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP [ ] MD [ ] PP [ ] E [ ] OPTION 2: SHALL COMPLY WITH HCAI PREAPPROVAL (OPM #) #



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ROBERTS FERRY TK & KG 101 ROBERTS FERRY RD, WATERFORD, CA 95386 ROBERT FERRY SCHOOL DISTRICT GENERAL NOTES, LEGEND, STRUCTURAL SAFETY NOTES

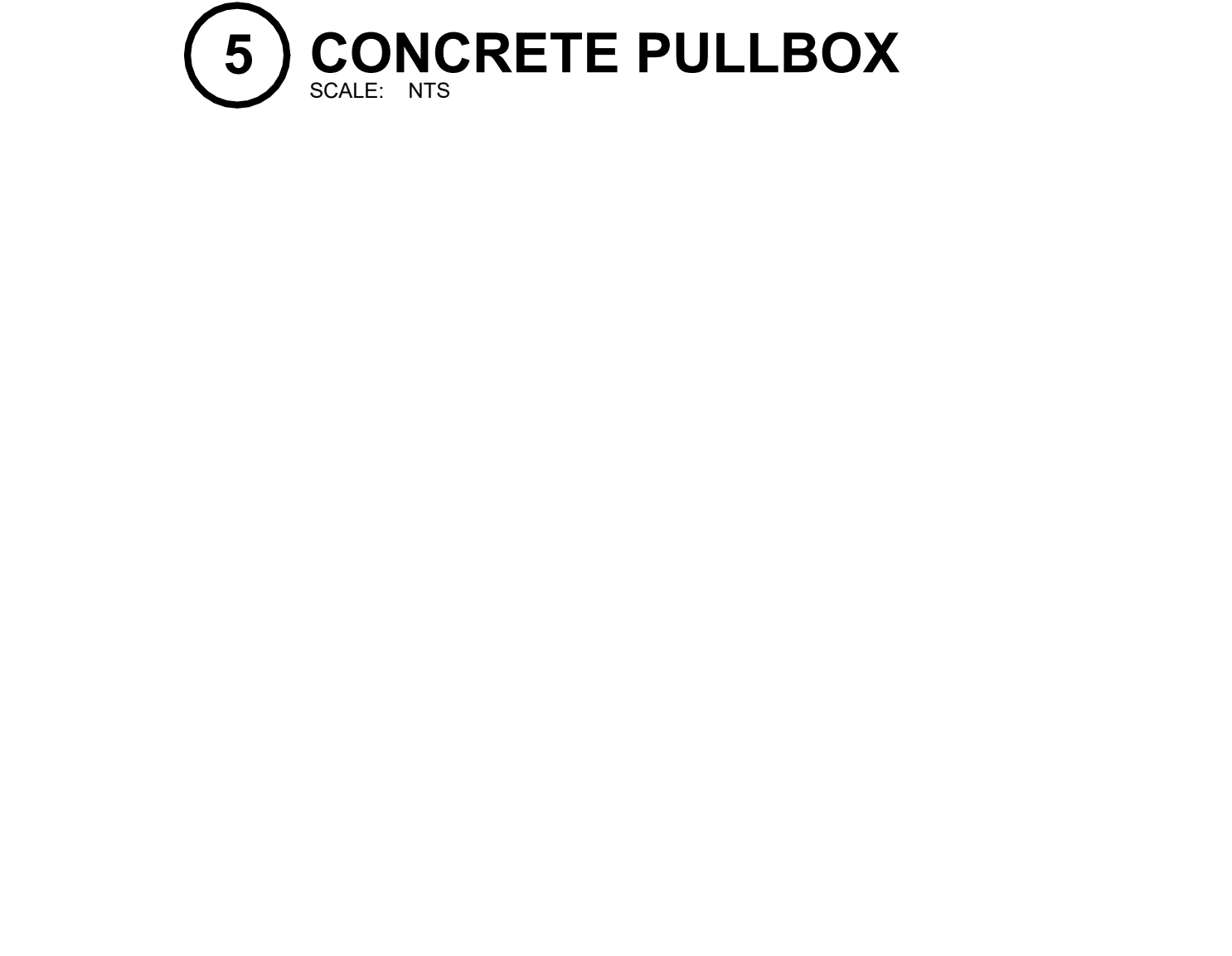
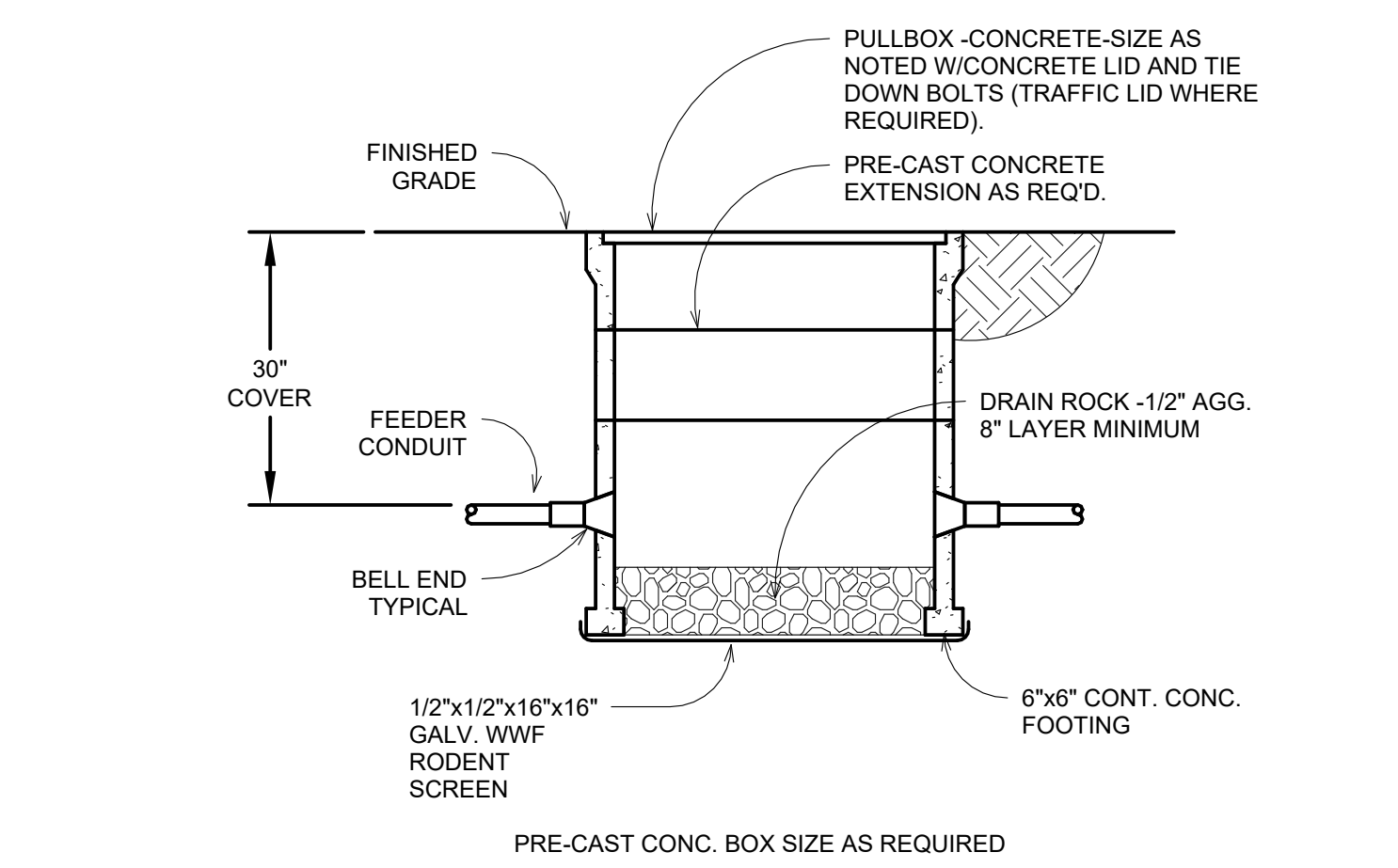
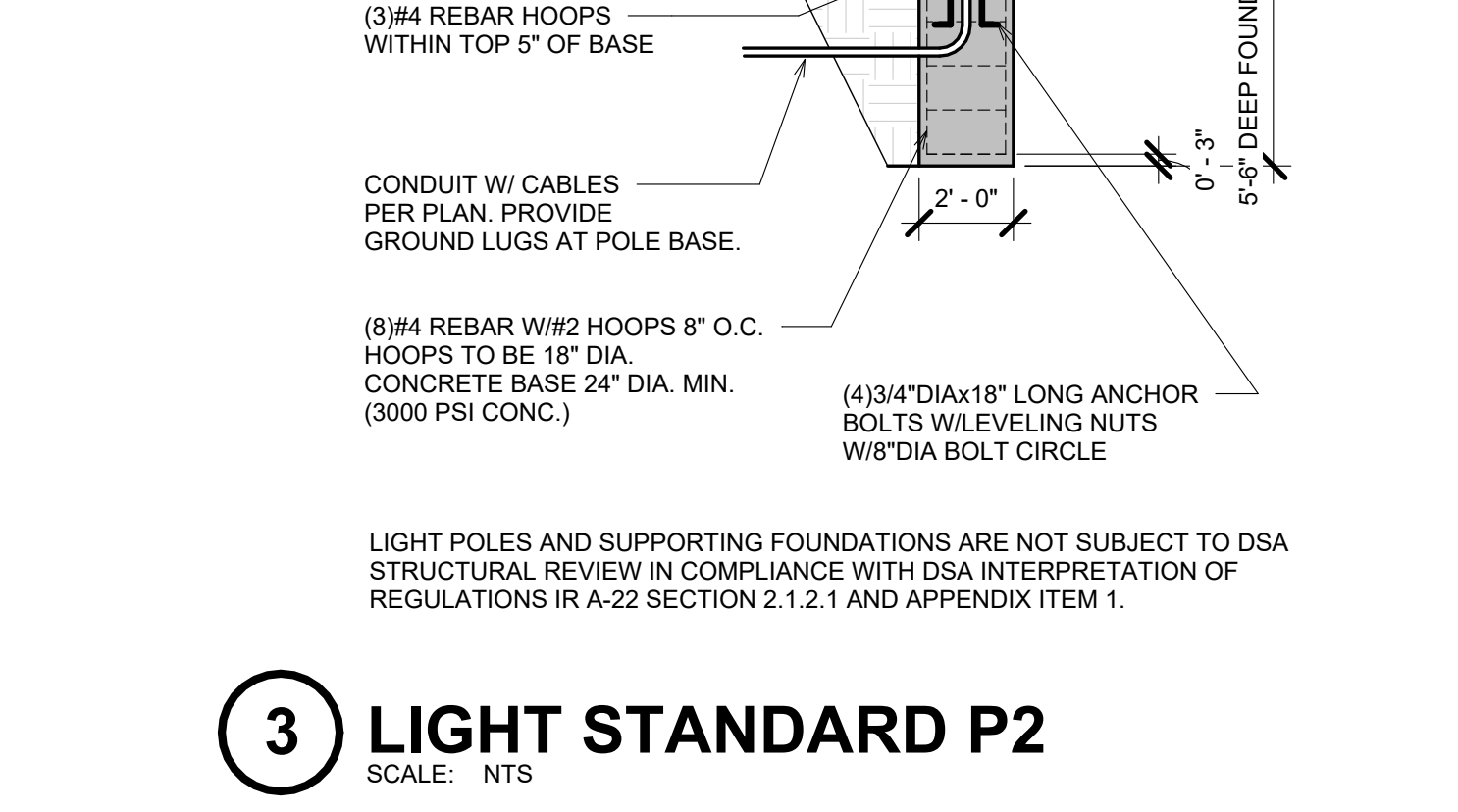
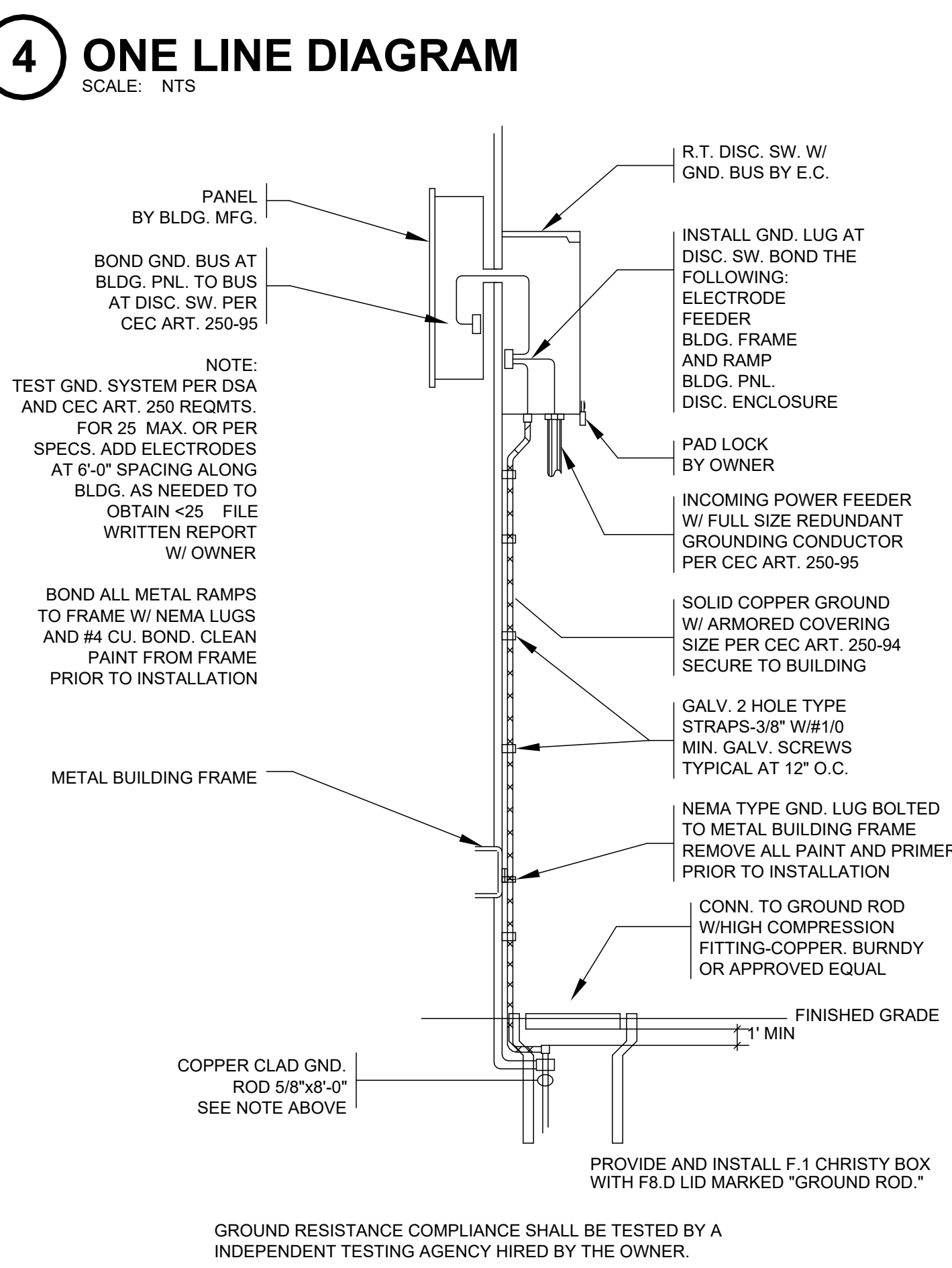
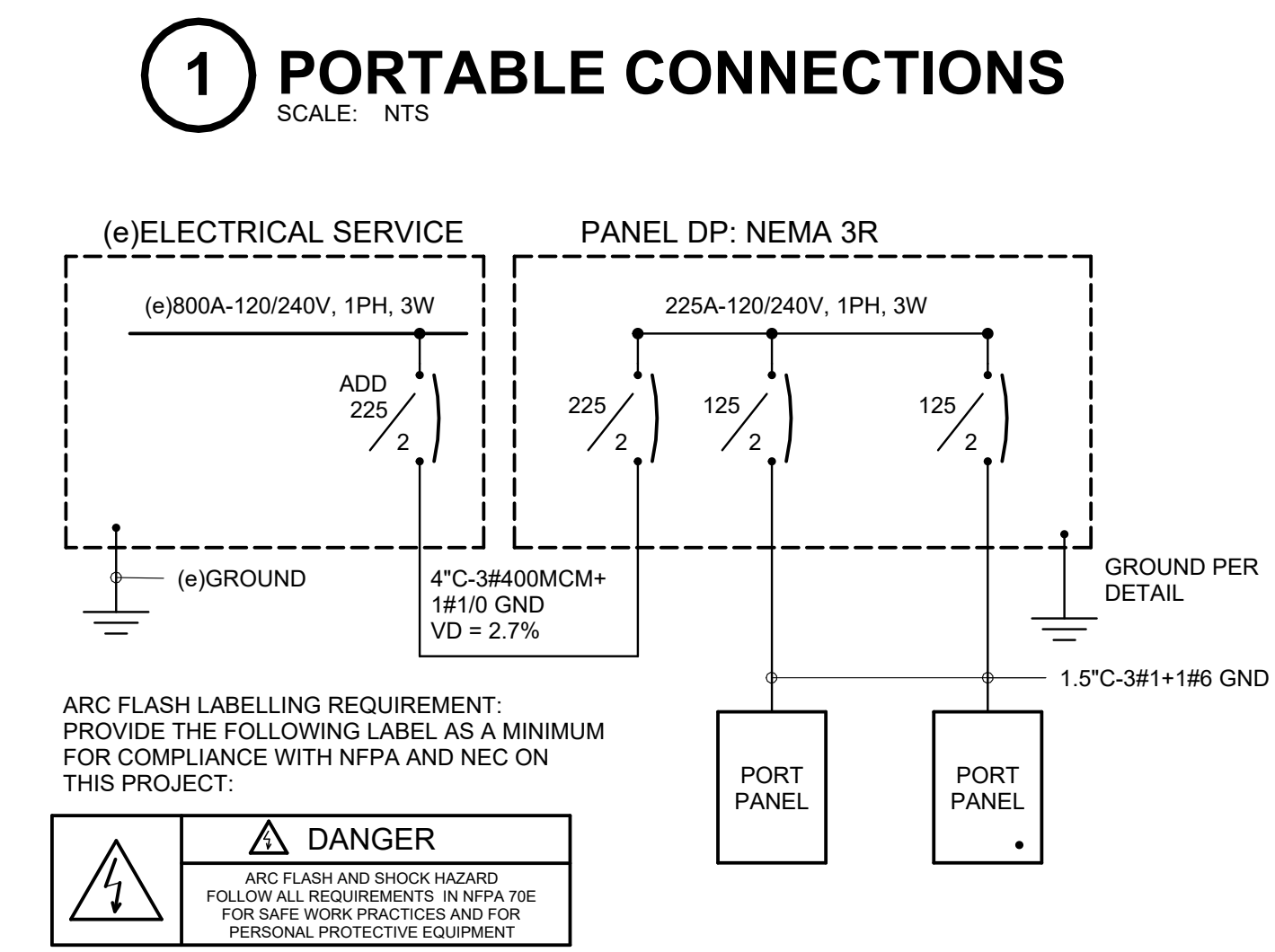
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ELECTRICAL LEGEND	
<p><b>LIGHTING FIXTURES</b></p> <p>LINEAR FIXTURE            SQUARE = RECESSED            CIRCLE = SURFACE</p> <p>TASK LIGHT OR STRIP LIGHT</p> <p>DOWNLIGHT, SQUARE = RECESSED, HEXAGON = INGRADE UPLIGHT</p> <p>WALL MOUNT</p> <p>CEILING EXHAUST FAN</p> <p>POLE MOUNT AREA LIGHT</p>	<p><b>FIXTURE NOTATIONS:</b>            A,(b),C-12 FIXTURE TYPE "A", SWITCH "b", CIRCUIT C-12</p> <p>ALTERNATE DESIGNATION FOR SITE LIGHTING FIXTURES</p>
<p><b>EMERGENCY LIGHTING</b></p> <p>EXIT SIGN WITH 90 MIN BATTERY BACKUP</p> <p>WALL MOUNT EMERGENCY LIGHT WITH 90 MIN BATTERY BACK</p> <p>EXTERIOR LANDING EMERGENCY LIGHT. CONNECT TO INTERIOR EXIT SIGN FOR POWER.</p> <p>FIXTURES WITH INTEGRAL EMERGENCY BALLAST</p>	
<p><b>BASIC LIGHTING CONTROLS</b></p> <p>LIGHT SWITCH, +48" TO TOP OF BOX</p> <ul style="list-style-type: none"> <li>D = DIMMER</li> <li>3 = SWAY</li> <li>P = PILOT SWITCH</li> <li>os = LINE VOLTAGE OCCUPANCY SENSOR</li> <li>T = TIMER</li> <li>VS = VACANCY SENSOR</li> </ul> <p>WALL MOUNT OCCUPANCY SENSOR (LINE VOLTAGE)</p>	
<p><b>TITLE 24 LIGHTING CONTROLS</b></p> <p>LIGHT SWITCH</p> <p>COMPONENTS OF DIMMING ROOM CONTROLLER</p> <ul style="list-style-type: none"> <li>US = LOW VOLTAGE OCCUPANCY SENSOR (CAT 5 OR AS REQUIRED)</li> <li>DR = DIMMING ROOM CONTROLLER</li> <li>PE = LOW VOLTAGE DIMMING PHOTOCELL (CAT 5 OR AS REQUIRED)</li> <li>D = LOW VOLTAGE DIMMER (CAT 5 OR AS REQUIRED)</li> <li>R = PLUG LOAD CONTROLLER</li> <li>ADR = AUTOMATIC DEMAND RESPONSE (FOR BUILDINGS OVER 10,000 SF)</li> <li>CLS = CLASSROOM LIGHTING SWITCH</li> <li>ES = ENTRY SWITCH</li> </ul> <p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>FOR SUBMITTAL INCLUDE FACTORY CONTROL DRAWINGS.</li> <li>CONDUCT A CONTROLS PRE-CONSTRUCTION MEETING WITH CONTROLS STARTUP TEAM. PROVIDE AGENDA AND ATTENDEES AS A SUBMITTAL. INCLUDE DEVICE I.D. TAGS, PROGRAMMING, CABLE ROUTING, PROGRAM AND TIME SCHEDULES AND DATE OF PROGRAMMING AND TESTING.</li> <li>CONTRACTOR TO HAVE SYSTEM FACTORY SUPPORT FOR START UP, PROGRAMMING AND COMMISSIONING. VERIFY OPERATIONAL HOURS WITH OWNER PRIOR TO COMMISSIONING.</li> </ol>	
<p><b>ELECTRICAL POWER</b></p> <p>ALL LINE VOLTAGE WIRING IN CONDUIT, SEE GENERAL NOTES</p> <p>TICKS = # OF #12 WIRE, SHORT = HOT, LONG = NEUTRAL, DOT = GROUND, UNLESS NOTED OTHERWISE</p> <p>120V OUTLET, +15" TO BOTTOM OF BOX</p> <ul style="list-style-type: none"> <li>S = SIGN</li> <li>F = FLOOR</li> <li>GFI = GROUND FAULT INTERRUPTER</li> </ul> <p>COUNTER OUTLET, +44" TO TOP OF BOX.</p> <p>CEILING OUTLET</p> <p>QUADRUPLEX OUTLET, SQUARE FOR TV LOCATIONS</p> <p>HALF SWITCHED OUTLETS</p> <p>FLOOR OUTLET</p> <p>JUNCTION BOX WITH MOTOR TOGGLE DISCONNECT</p> <p>JUNCTION BOX</p> <p>MOTOR / DISCONNECT</p> <p>PANELBOARD</p> <p>TRANSFORMER / SWITCHBOARD AS NOTED</p>	
<p><b>COMMUNICATIONS</b></p> <p>TELEPHONE BACKBOARD, PROVIDE #8 GND TO SERVICE GROUND</p> <p>PHONE ONLY OUTLET, PREWIRED WITH CAT 6 CABLE</p> <p>DATA OUTLET JACK, PREWIRED WITH CAT 6 CABLE, NO # = 2 DROPS</p> <p>DATA OUTLET AND CEILING PROJECTOR</p> <p>FLOOR DATA OUTLET JACK, PREWIRED WITH CAT 6 CABLE, NO # = 2 DROPS</p> <p>IP SPEAKER (1 CAT 6)</p> <p>CLOCK SPEAKER (IP BASED) (1 CAT 6)</p> <p>WIRELESS ACCESS POINT (1 CAT 6)</p> <p>WALL MOUNT ACCESS POINT (1 CAT 6)</p> <p>EXTERIOR WIRELESS ACCESS POINT (1 CAT 6)</p> <p>TEACHER STATION</p>	
<p><b>SECURITY DEVICES</b></p> <p>DOOR MONITOR SWITCH</p> <p>AUDIO SENSOR</p> <p>KEYPAD</p> <p>SECURITY PANEL</p>	

ELECTRICAL LEGEND	
<p><b>DRAFTING NOTATIONS</b></p> <p>KEY NOTE, SEE SCHEDULE</p> <p>EQUIPMENT TAG, SEE SCHEDULE</p> <p>REFERENCE TO A DETAIL VIEW "A" ON SHEET E-2</p> <p>NEW ELECTRICAL CONDUIT AND WIRE</p> <p>EXISTING DEVICE, TO REMAIN IN OPERATION</p> <p>REMOVE DEVICE, KEEP REMAINDER OF CIRCUIT IN OPERATION</p> <p>REMOVE, RELOCATE AND RECONNECT DEVICE ON EXISTING CIRCUIT, EXTEND CIRCUIT</p>	<p><b>ELECTRICAL ABBREVIATIONS:</b></p> <p>AL = ALUMINUM</p> <p>A = AMPERE</p> <p>AIC = AMPS INTERRUPTING CAPACITY</p> <p>AF = ABOVE FINISHED FLOOR</p> <p>AG = ABOVE FINISHED GRADE</p> <p>CKT = CIRCUIT</p> <p>CO = CONDUIT ONLY</p> <p>CU = COPPER</p> <p>EC = ELECTRICAL CONTRACTOR</p> <p>GC = GENERAL CONTRACTOR</p> <p>GFI = GROUND FAULT INTERRUPTER</p> <p>GND = GROUND</p> <p>KW = KILOWATT</p> <p>KVA = KILO-VOLT-AMPERE</p> <p>LC = LIGHTING CONTACTOR</p> <p>NO = NUMBER</p> <p>NL = NIGHT LIGHT</p> <p>PB = PULLBOX</p> <p>SP = SPACE</p> <p>UG = UNDERGROUND</p> <p>UN = UNLESS OTHERWISE NOTED</p> <p>V = VOLT</p> <p>WP = WEATHERPROOF</p>
<p><b>ONE LINE DIAGRAM</b></p> <p>BUS / SWITCHBOARD</p> <p>PANEL</p> <p>GROUND</p> <p>METER</p> <p>CURRENT TRANSFORMER</p> <p>POTENTIAL TRANSFORMER</p> <p>DRY TYPE TRANSFORMER</p> <p>MOTOR</p> <p>RELAY</p> <p>CONTACT (OPEN)</p> <p>CONTACT (CLOSED)</p> <p>VARIABLE FREQ. DRIVE</p> <p>MOTOR OVERLOAD HEATER</p> <p>INDICATOR LIGHT (R) RED, (W) WHITE</p> <p>ANTENNA</p>	<p>CIRCUIT BREAKER 50 AMP RATED, 3 POLE</p> <p>GFI = GROUND FAULT INTERRUPTER</p> <p>AFCI = ARC FAULT CIRCUIT INTERRUPTER</p> <p>DISCONNECT, RATED TO POWER SOURCE VOLTAGE AND AMPERAGE RATING FOR FUSE OR AS NOTED</p> <p>FUSE, SIZE = 60 AMPS</p> <p>AUTOMATIC TRANSFER SWITCH</p> <p>ENGINE DRIVEN GENERATOR RATING AS NOTED AGAINST THE UNIT.</p> <p>DRAW OUT DEVICE</p> <p>ANSI RELAY</p> <p>NOTE: ALL FIRE ALARM CABLES/ CONDUCTORS SHALL BE CSFM APPROVED.</p> <p><b>FIRE ALARM ABBREVIATIONS:</b></p> <p>CD = CANDELLA</p> <p>DSD = DUCT SMOKE DETECTOR</p> <p>EOL = END OF LINE RESISTOR</p> <p>NAC = NOTIFICATION POWER SUPPLY</p> <p>PIV = POST INDICATOR VALVE</p> <p>TS = TAMPER SWITCH</p> <p>WF = WATER FLOW SWITCH</p> <p>WP = WEATHERPROOF</p> <p>MARKINGS:            a### = CIRCUIT "a" DEVICE ###            15CD = 15 CANDELLA VISUAL DEVICE            1/2W = 1/2 WATT AUDIBLE DEVICE</p>
<p><b>MOUNTING HEIGHTS</b></p> <p>FINISHED CEILING</p> <p>FINISHED FLOOR</p> <p>12" TYPICAL</p> <p>48" TO TOP OF BOX</p> <p>SYSTEMS FURNITURE CONNECTIONS +15" TO BOTTOM OF BOXES</p> <p>CONVENIENCE OUTLETS, PHONE &amp; DATA OUTLETS, +15" TO BOTTOM OF BOX</p> <p>AUDIBLE FIRE ALARM APPLIANCE NOT LESS THAN 90" AFF OR AT LEAST 6" BELOW CEILING</p> <p>VISUAL APPLIANCE TO BE NOT LESS THAN 80" AFF MIN, AND NOT MORE THAN 96" AFF TO BOTTOM</p> <p>FIRE ALARM MANUAL PULL STATION SHALL NOT REQUIRE "TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST"</p> <p>THERMOSTAT OR WALL PHONE</p> <p>LIGHT SWITCHES</p>	

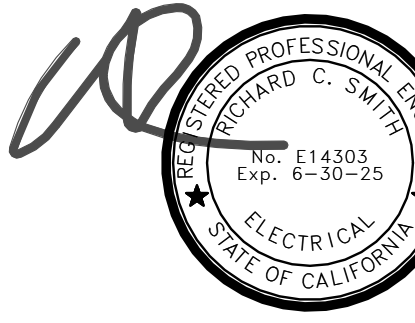




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**ELECTRICAL CONSTRUCTION DETAILS**

Project Number 2326  
 Date Issue Date  
 Drawn by Author  
 Checked by Checker

**ES0.2**

Plot Date & Time 11/3/2023 4:12:24 PM

REBID - April 14, 2024

**FIRE ALARM SYSTEM NOTES:**  
 1. GENERAL REQUIREMENTS: THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND FULLY OPERATIONAL FUNCTIONAL AUTOMATIC FIRE ALARM SYSTEM ADDITION FOR THE NEW BUILDINGS

A. THE FIRE ALARM SYSTEM SHALL BE AN ELECTRICALLY SUPERVISED, BATTERY STANDBY, FULLY ADDRESSABLE SYSTEM, SUPERVISED AGAINST OPENS, SHORTS AND GROUND FAULTS IN ALL EXTERNAL CIRCUITS AND CONTAIN ALL NECESSARY POWER SUPPLIES, BATTERIES, CHARGER, SIGNAL AND INITIATING CIRCUITS AND SILENCING SWITCH FOR A COMPLETE AND OPERATIONAL SYSTEM.

B. THE FIRE ALARM SYSTEM SHALL CONFORM TO ALL LOCAL AND STATE FIRE CODES. THE SYSTEM SHALL COMPLY WITH SENATE BILL SB 575. ALL EQUIPMENT SHALL HAVE BEEN APPROVED AND LISTED BY THE STATE FIRE MARSHAL.

C. THE FIRE ALARM SYSTEM EQUIPMENT SHALL BE U.L. LISTED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL'S OFFICE.

D. ALL WIRING SHALL BE IN CONDUIT. MINIMUM SIZE OF CONDUIT SHALL BE 1/2" INDOORS AND 3/4" UNDERGROUND. ALL CONDUITS INSTALLED UNDERGROUND AND ON EXTERIOR OF BUILDING EXTERIOR WALLS SHALL HAVE WATER TIGHT FITTINGS.

E. SEE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

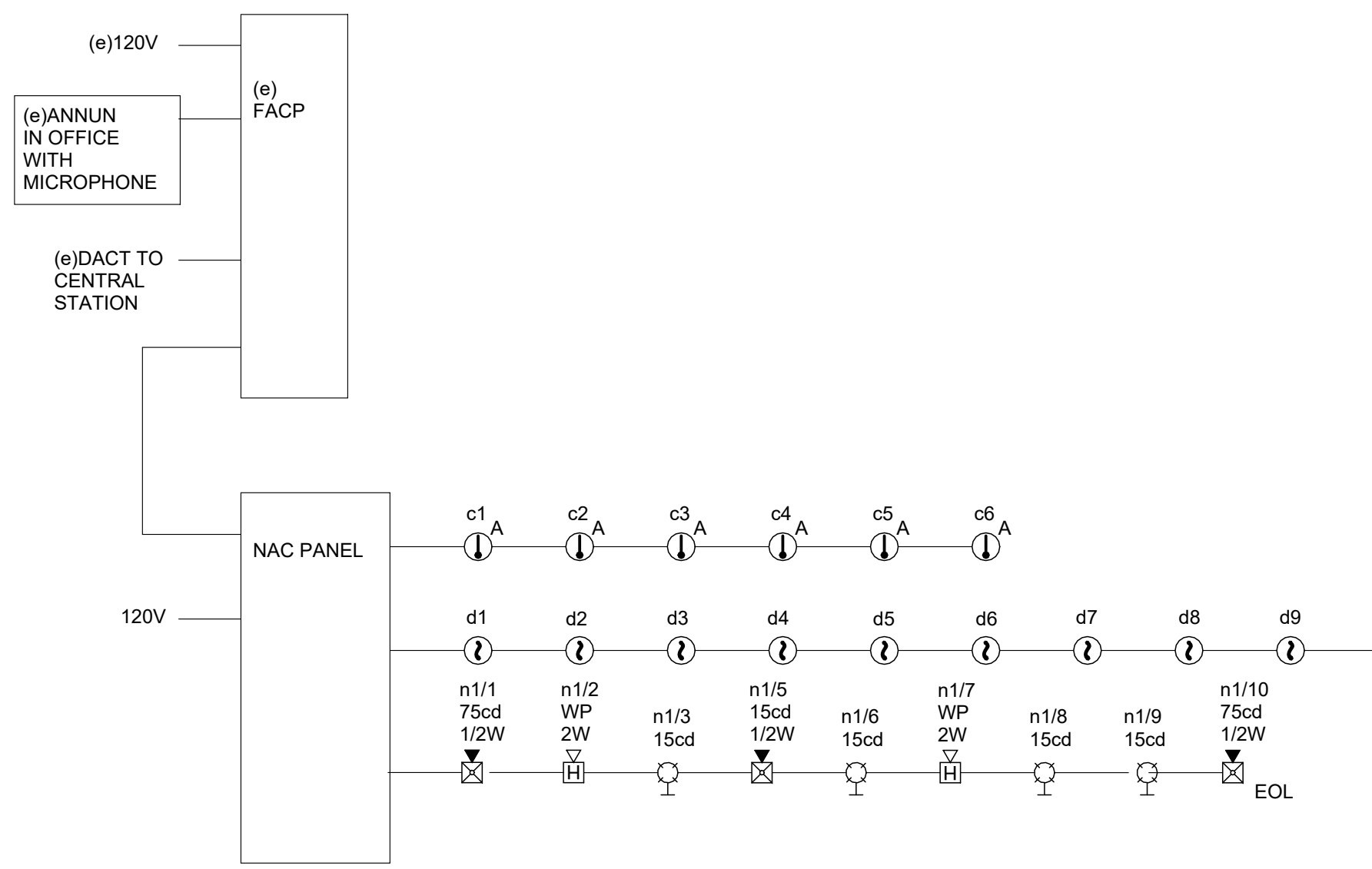
RESULTS	DEVICE	MANUAL FULL STATION	SMOKE & HEAT DETECTORS	POWER LOSS	GROUND FAULT, OPENS, SHORTS
ACTIVATE AUDIBLES		YES	YES	NO	NO
ACTIVATE VISUALS		YES	YES	N/A	N/A
ANNUNCIATE AT FACP		YES	YES	YES	YES
ANNUNCIATE AT REMOTE ANNUNCIATOR		YES	YES	YES	YES
LIGHT UP "ALARM" LIGHT		YES	YES	NO	NO
LIGHT UP "TROUBLE" LIGHT		NO	NO	YES	YES
REPORT TO CONTROL STATION		YES	YES	NO	NO

N/A = NOT APPLICABLE

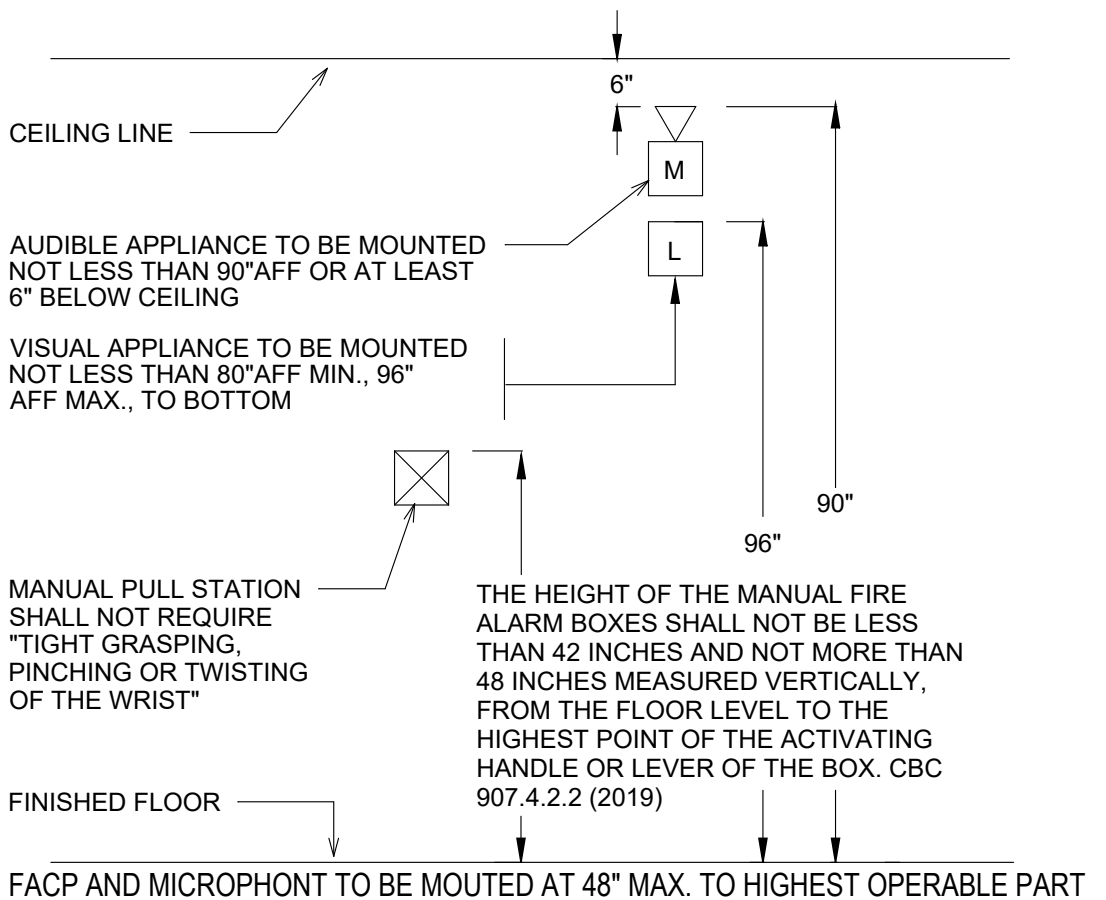
**1 FIRE ALARM MATRIX**  
SCALE: NTS

TAG	CABLE	COLOR CODE	FOR
A	TSP#16	RED/BLACK	ADDRESSIBLE INPUT
X	2#12 THWN	RED/BLACK	SMOKE & HEAT DETECTORS
Y	2#12 THWN	BLUE/BROWN	VISUALS
Z	2#12 SPEAKER CABLE	RED/BLACK	AUDIBLE

COMPLETE FIRE ALARM SYSTEM SUBMITTALS ATTACHED. NO SUBSTITUTES.



**4 RISER**  
SCALE: NTS



**2 FIRE ALARM ELEVATION**  
SCALE: NTS

**FIRE ALARM SYSTEM COMPONENTS**

EXIST	DESCRIPTION	MANUFACTURER	MODEL #	CSFM #
	FIRE ALARM CONTROL PANEL	NOTIFIER	NFS2-640	7165-0028-243
	CPU			
	UDACT DISPLAY			
a	VOICE NAC PANEL	WHEELOCK	sp40a	6911-0785-157
b	NAC PANEL	GAMEWELL	HPFF8	7315-1637-102
c	ATTIC HEAT DETECTOR BASE	FCI	FST-851	7270-0028-196
d	SMOKE DETECTOR BASE	FCI	FSP-851	7272-0028-206
			B710LP	7300-0028-173
e	SIGNALLING DEVICES			
	STROBE	SYSTEM SENSOR	SRL	7125-1653-504
	SPEAKER STROBE	SYSTEM SENSOR	SPSRL	7320-1653-505
	WP SPEAKER	SYSTEM SENSOR	SPRK	7320-1653-201

**FACP-A BATTERY CALCULATIONS**

Description	Qty.	Standby Current (mA)	Total Standby (mA)	Alarm Current (mA)	Total Alarm (mA)
MAIN BOARD	1	250	250	640	640
LCD DISPLAY	1	100	100	100	100
EXIST RELAYS	3	0.375	1.125	0.375	1.125
EXIST SMOKE DETECTOR	10	0.25	2.5	0.25	2.5
EXIST HEAT DETECTORS	13	0.2	2.6	0.2	2.6
EXIST NAC CIRCUIT	1	0	0	811	811
EXIST NAC CIRCUIT	1	0	0	400	400
NEW SMOKE DETECTORS	10	--	--	0	0
NEW HEAT DETECTORS	6	--	--	0	0
TOTALS	--	--	357	--	1958

\* NOTE: The SIGA Device Controller is calculated with the maximum Signature addressable device load

Battery Requirement Calculation for 24 Hours Standby and 15 Minutes Alarm:  
 Ampere Hours = [(Standby Current x Time)+(Alarm Current x Time)] x 1.2  
 Ampere Hours = [(0.357225A x 24 hrs)+(1.958225A x 0.25 hrs)] x 1.25  
 Ampere Hours = 10.9

**BATTERIES SUPPLIED: PROVIDE (2) 12 Volts, 12 Ampere Hours (24 Volts, 12 Ampere Hours)**

**NACC BATTERY CALCULATION**

Description	Qty.	Standby Current (mA)	Total Standby (mA)	Alarm Current (mA)	Total Alarm (mA)
Control Board	1	70	70	270	270
NAC N1	1	--	--	429	429
SPARE	1	--	--	0	0
SPARE	1	--	--	0	0
SPARE	1	--	--	0	0
TOTALS	--	--	70	--	699

Battery Requirement Calculation for 24 Hours Standby and 15 Minutes Alarm:  
 Ampere Hours = [(Standby Current x Time)+(Alarm Current x Time)] x Derating Factor  
 Ampere Hours = [(0.07A x 24 hrs)+(0.699A x 0.25 hrs)] x 1.25  
 Ampere Hours = 2.3

**BATTERIES SUPPLIED: (2) 12 Volts, 7 Ampere Hours (24 Volts, 7 Ampere Hours)**

**NAC VOLTAGE DROP CALCULATIONS**

CALCULATION:  $dV = V - (2L \times K \times dI)$   
 Where: dV = device voltage  
 V = previous device voltage (Source Voltage = 20.4 VDC)  
 K = wire AWG constant ( $\Omega/k$ ) at 167°F: #8 = 0.81, #10 = 1.29, #12 = 2.05, #14 = 3.26 (stranded)  
 L = wire length  
 dI = current

DEVICE LEGEND:  
 S(x) = Strobe (where 'x' is candela)  
 SS(x) = SPEAKER/Strobe (where 'x' is candela)  
 H = Horn  
 WPH = Weatherproof Speaker  
 CEIL = Ceiling Mounted

DEVICE ID NO.	DEVICE TYPE	DEVICE CURRENT (mA)	SECTION CURRENT (mA)	WIRE AWG	LENGTH (ft)	DEVICE VDC	PERCENT DROP
N1/01	ss75	107	429	12	24	20.36	0.21
N1/02	wph	0	322	12	40	20.30	0.47
N1/03	s15	43	322	12	16	20.28	0.57
N1/05	ss15	43	279	12	5	20.28	0.60
N1/06	s15	43	236	12	20	20.26	0.69
N1/07	wph	0	193	12	16	20.25	0.75
N1/08	s15	43	193	12	32	20.22	0.88
N1/09	s15	43	150	12	24	20.21	0.95
N1/10	ss75	107	107	12	40	20.19	1.04
N1/11				12			

**SPEAKER NAC VOLTAGE DROP CALCULATIONS**

CALCULATION (LUMP SUM METHOD):  $VD = (2L \times K \times I)$   
 Where: VD = voltage drop  
 L = wire length  
 K = wire AWG constant ( $\Omega/k$ ) at 167°F: #16 = 4.73, #18 = 7.51, #20 = 11.90, #22 = 19.00 (stranded)  
 I = total current (Note: Total current is derived by Ohm's Law, dividing the total power by the source voltage:  $I = P/E$ )

AUDIO LOSS:  $dB = 20 \times \log (Vc/Vs)$   
 Where: dB = audio loss  
 Vc = calculated voltage (source voltage minus voltage drop)  
 Vs = source voltage

CIRCUIT NUMBER	TOTAL PWR (W)	SOURCE VOLTAGE (V)	CURRENT (A)	WIRE AWG	LENGTH (ft)	VOLTAGE DROP	PERCENT DROP	AUDIO LOSS (dB)
N1	6.5	70	0.09	16	812	0.36	0.51	-0.04
		70	0.00	16		0.00	0.00	0.00
		70	0.00	16		0.00	0.00	0.00

**SPEAKER NAC VOLTAGE DROP CALCULATIONS**

CALCULATION (LUMP SUM METHOD):  $VD = (2L \times K \times I)$   
 Where: VD = voltage drop  
 L = wire length  
 K = wire AWG constant ( $\Omega/k$ ) at 167°F: #16 = 4.73, #18 = 7.51, #20 = 11.90, #22 = 19.00 (stranded)  
 I = total current (Note: Total current is derived by Ohm's Law, dividing the total power by the source voltage:  $I = P/E$ )

AUDIO LOSS:  $dB = 20 \times \log (Vc/Vs)$   
 Where: dB = audio loss  
 Vc = calculated voltage (source voltage minus voltage drop)  
 Vs = source voltage

CIRCUIT NUMBER	TOTAL PWR (W)	SOURCE VOLTAGE (V)	CURRENT (A)	WIRE AWG	LENGTH (ft)	VOLTAGE DROP	PERCENT DROP	AUDIO LOSS (dB)
N1	6.5	70	0.09	16	812	0.36	0.51	-0.04
		70	0.00	16		0.00	0.00	0.00
		70	0.00	16		0.00	0.00	0.00

**COMPLETE FIRE ALARM SYSTEM SUBMITTALS ATTACHED**

**NOTE:**  
 AUTOMATIC FIRE ALARM SYSTEMS SHALL BE MONITORED AND SHALL TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72, AS AMENDED BY CFC CHAPTER 80. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UJFX (CENTRAL STATION) OR UJUS (REMOTE & PROPRIETARY) BY UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD, FACTORY MUTUAL (FM) 3011. TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH CBC/CFC SECTION 907.6.6.2.



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 101 ROBERTS FERRY RD, WATERFORD, CA 95386  
 ROBERT FERRY SCHOOL DISTRICT  
**FIRE ALARM DETAILS**

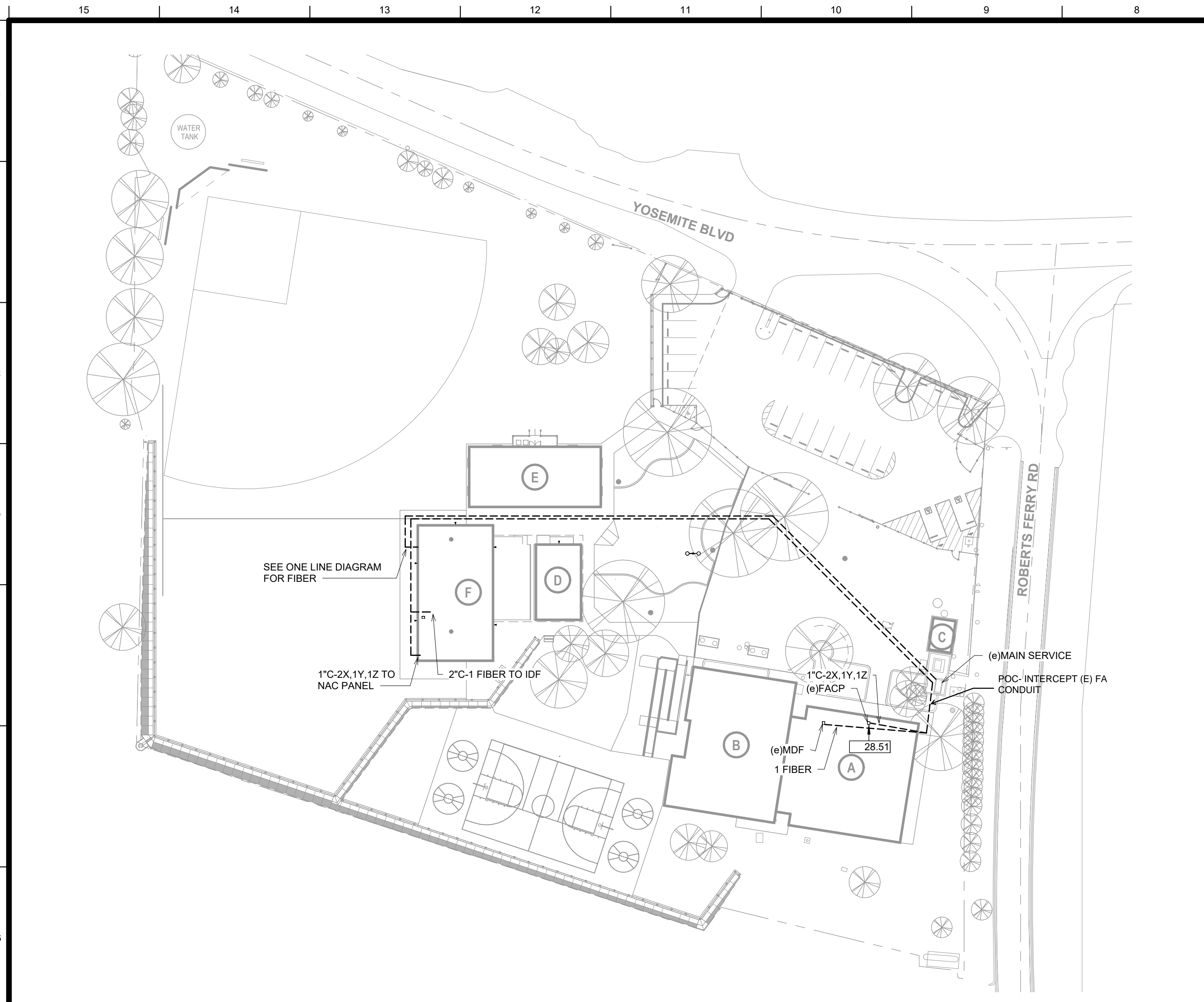
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Date	Issue Date
Drawn by	Author
Checked by	Checker

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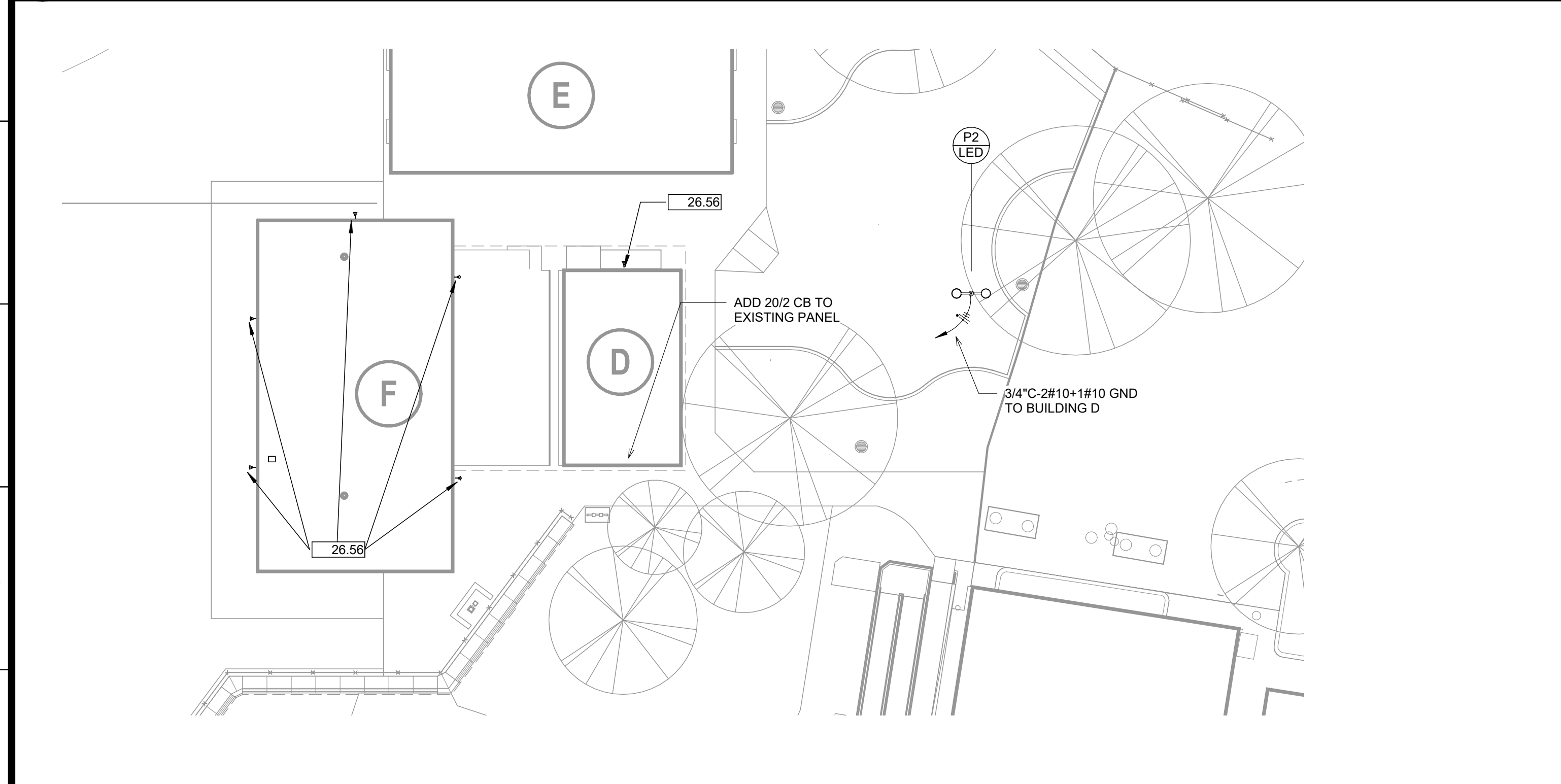
**REBID - April 14, 2024**

SHEET NOTES	
26.56	ADD LITHONIA WIDGEZ LED P3 40K T3M 70CRI WALL MOUNT AREA LIGHT FIXTURE WITH PHOTOCELL AND BATTERY BACKUP TO EXTERIOR WALL, CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT. MICROPHONE INCLUDED
28.51	(e)FACP IN MAIN OFFICE, ADD VOICE BOOSTER PANEL AND TIE INTO THE MAIN PANEL

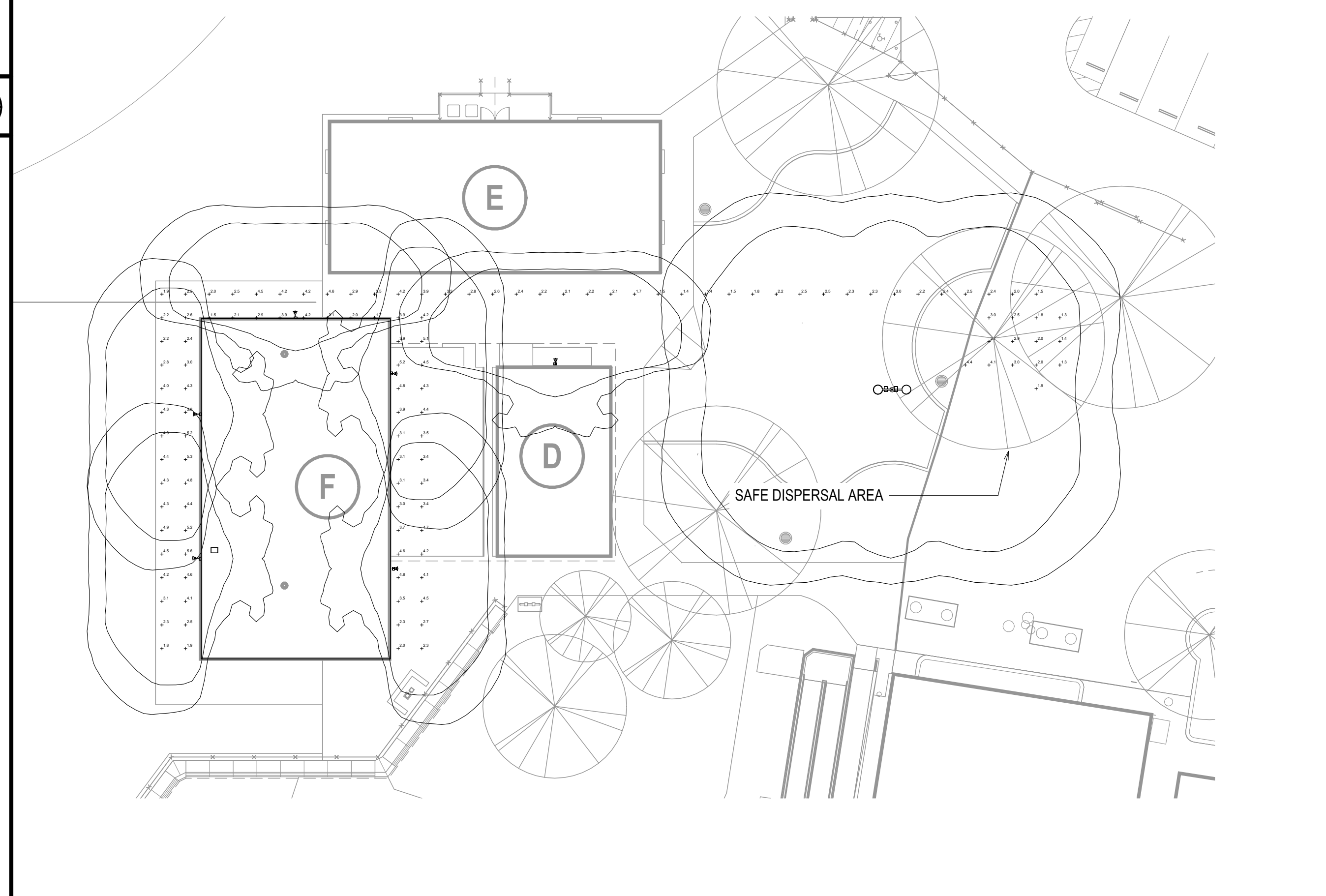
**KEY NOTES**



**1 OVERALL CAMPUS ELECTRICAL PLAN**  
SCALE: 1" = 40'-0"



**3 SITE LIGHTING PLAN**  
SCALE: 1" = 20'-0"



**2 EGRESS PHOTOMETRIC STUDY**  
SCALE: 1" = 20'-0"



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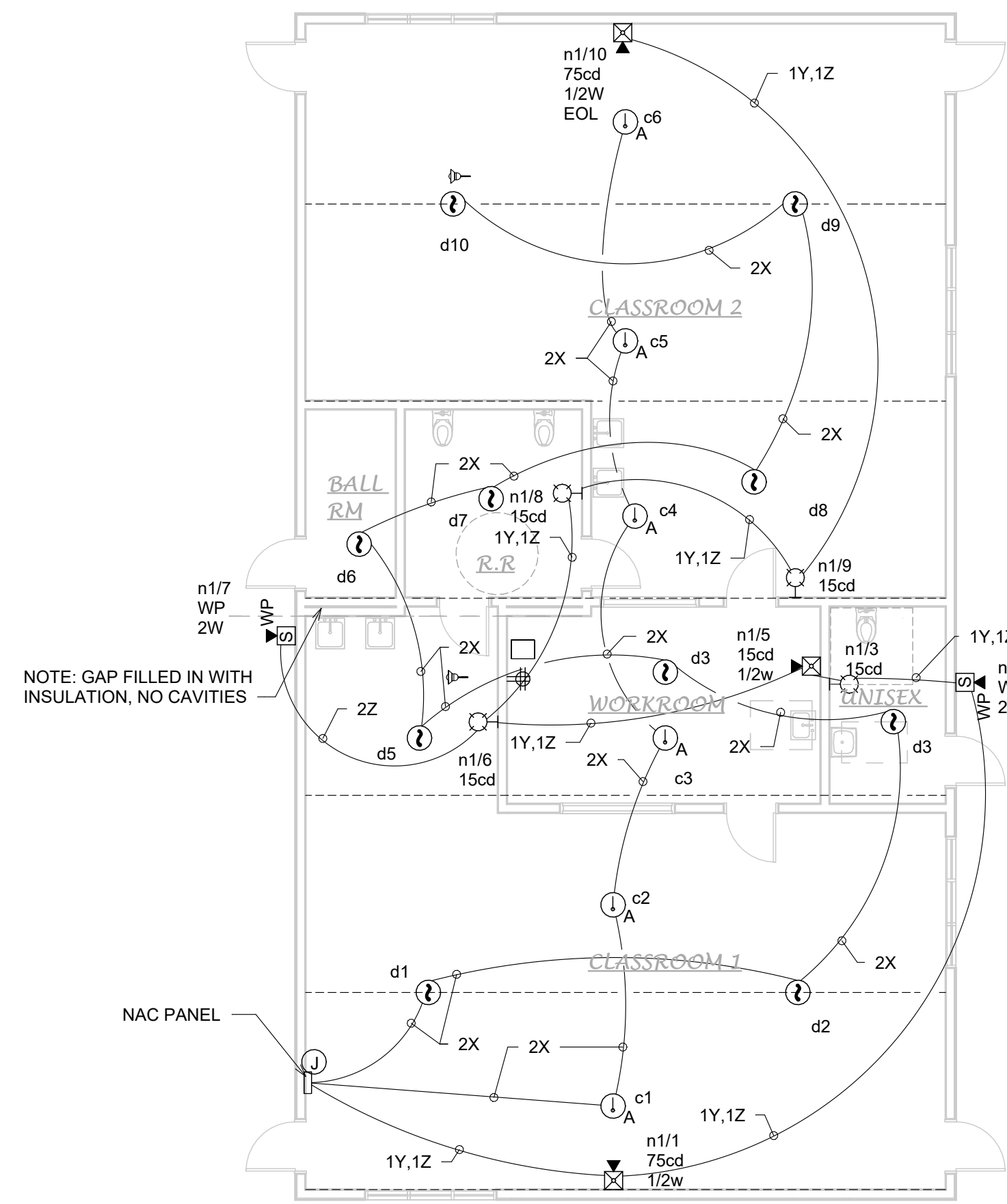
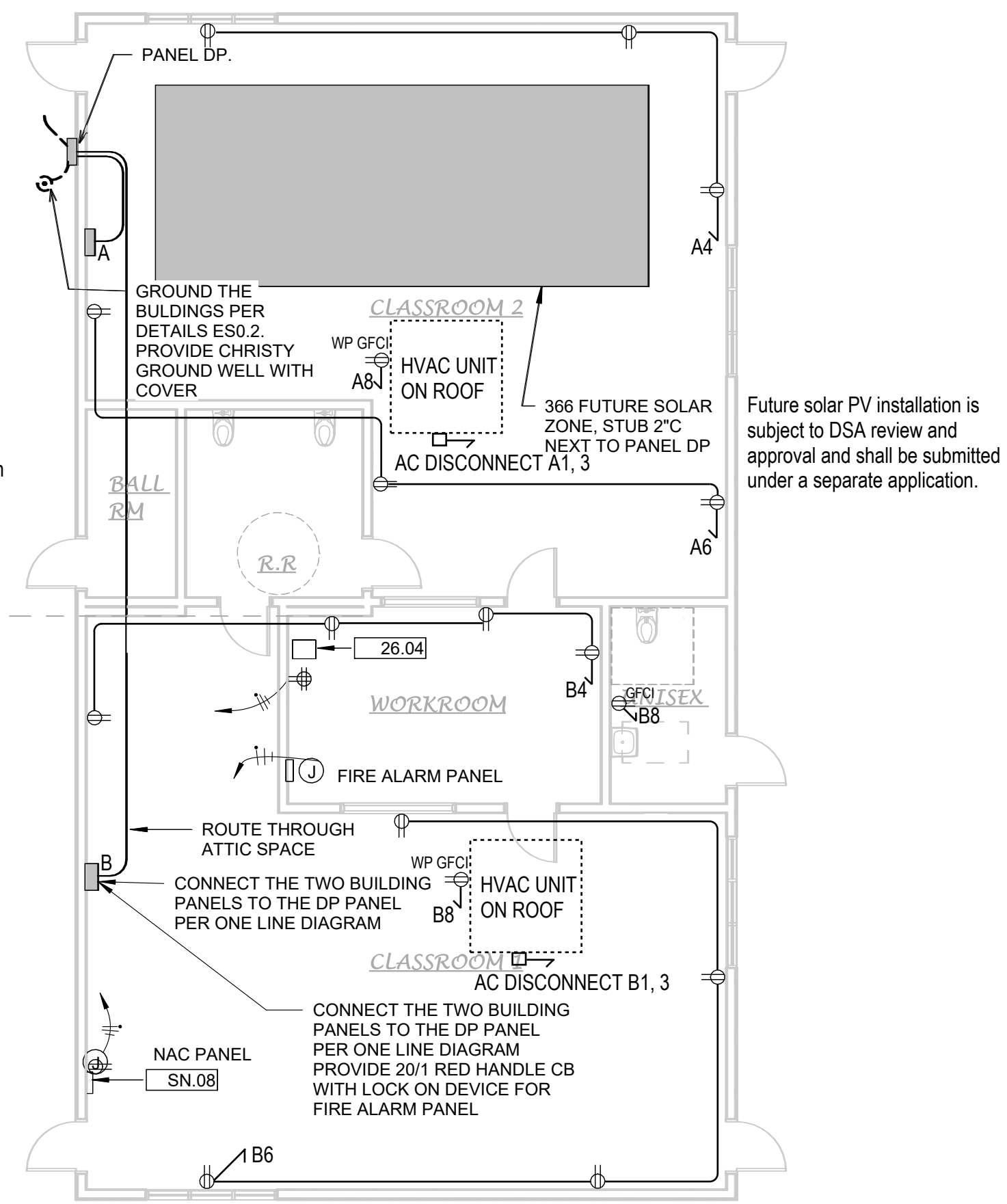
**ROBERTS FERRY TK & KG**  
101 ROBERTS FERRY RD, WATERFORD, CA 95386  
ROBERT FERRY SCHOOL DISTRICT  
**ELECTRICAL PLAN**

Project Number	2326
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**REBID - April 14, 2024**



**SHEET NOTES**

26.04	PROVIDE WALL MOUNT IDF PER DETAIL WITH QUAD 120 VOLT OUTLET CONNECT TO DEDICATED 201 CB IN LOCAL PANEL WITH 1/2" C-2#12-1#12 GND.
26.05	PROVIDE EXTERIOR VANDAL RESISTANT EXTERIOR SPEAKER. PREWIRE WITH (1) AQC355 THROUGH SIGNAL CABINET, THRU CONDUITS TO INTERCOM SYSTEM RACK IN MAIN OFFICE.
26.06	PROVIDE COMBINATION CLOCK/SPEAKER. PREWIRE WITH (1) AQC355 AND #14 THROUGH SIGNAL CABINET, THRU CONDUITS TO INTERCOM SYSTEM RACK IN MAIN OFFICE.
26.07	PREWIRE ALL DATA JACKS WITH (2) CAT 6 CABLES TO IDF.
26.08	PREWIRE ALL ACCESS POINTS WITH (2) CAT 6A CABLES TO IDF.
SN.08	NAC PANEL. PROVIDE DEDICATED CIRCUIT FROM LOCAL PANEL WITH RED HANDLE BREAKER & LOCK ON DEVICES.

PANEL SCHEDULE: "A"  
 MOUNTING: FLUSH INT. (NEMA 1) VOLTAGE: 120/240  
 PANEL: 125 AMP RATED PHASE: 1φ  
 MAIN BREAKER: 125A WIRE: 3W

DESCRIPTION	LOAD	BRKR	MAIN		BRKR	LOAD	DESCRIPTION
			A	B			
HVAC UNIT	7360	80	1	2	20	504	LIGHTING - A
	7360	2	3	4	20	540	OUTLETS
			5	6	20	540	OUTLETS
			7	8	20	180	WP GFCI
			9	10			
			11	12			
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			FUTURE SOLAR ELEC.
			23	24			

LEG A: 8404 W  
 LEG B: 8080 W  
 TOTAL: 16484 W AMPS: 68.7

\* RESERVED SPACE FOR FUTURE SOLAR ELECTRIC SHALL BE PERMANENTLY MARKED.

PANEL SCHEDULE: "B"  
 MOUNTING: FLUSH INT. (NEMA 1) VOLTAGE: 120/240  
 PANEL: 125 AMP RATED PHASE: 1φ  
 MAIN BREAKER: 125A WIRE: 3W

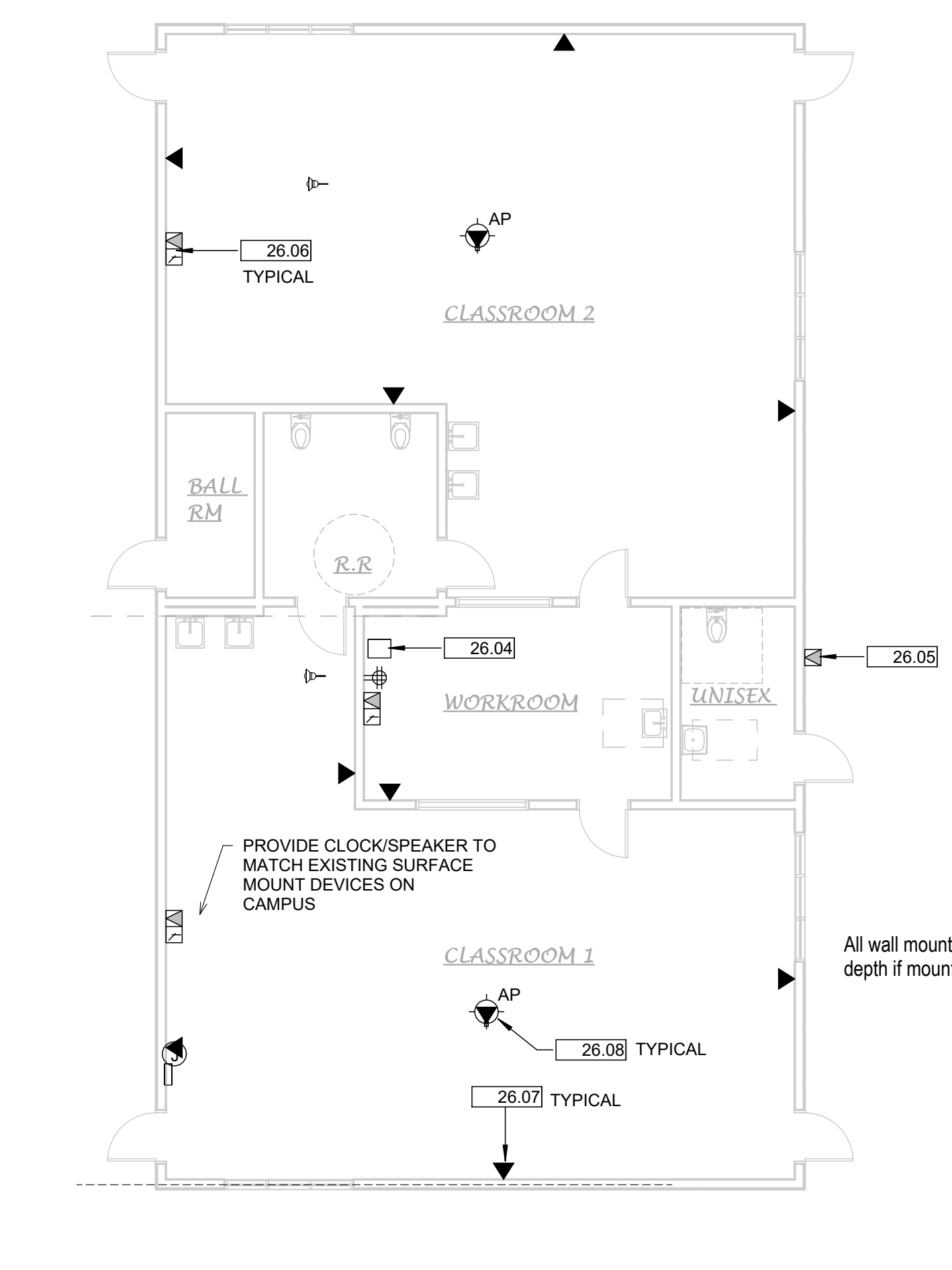
DESCRIPTION	LOAD	BRKR	MAIN		BRKR	LOAD	DESCRIPTION
			A	B			
HVAC UNIT	7360	80	1	2	20	504	LIGHTING - A
	7360	2	3	4	20	540	OUTLETS
			5	6	20	540	OUTLETS
			7	8	20	180	WP GFCI
			9	10			
			11	12			
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			FUTURE SOLAR ELEC.
			23	24			

LEG A: 8404 W  
 LEG B: 8080 W  
 TOTAL: 16484 W AMPS: 68.7

\* RESERVED SPACE FOR FUTURE SOLAR ELECTRIC SHALL BE PERMANENTLY MARKED.

**1 ELECTRICAL PLAN**  
 SCALE: 1/8" = 1'-0"

**2 FIRE ALARM PLAN**  
 SCALE: 1/8" = 1'-0"



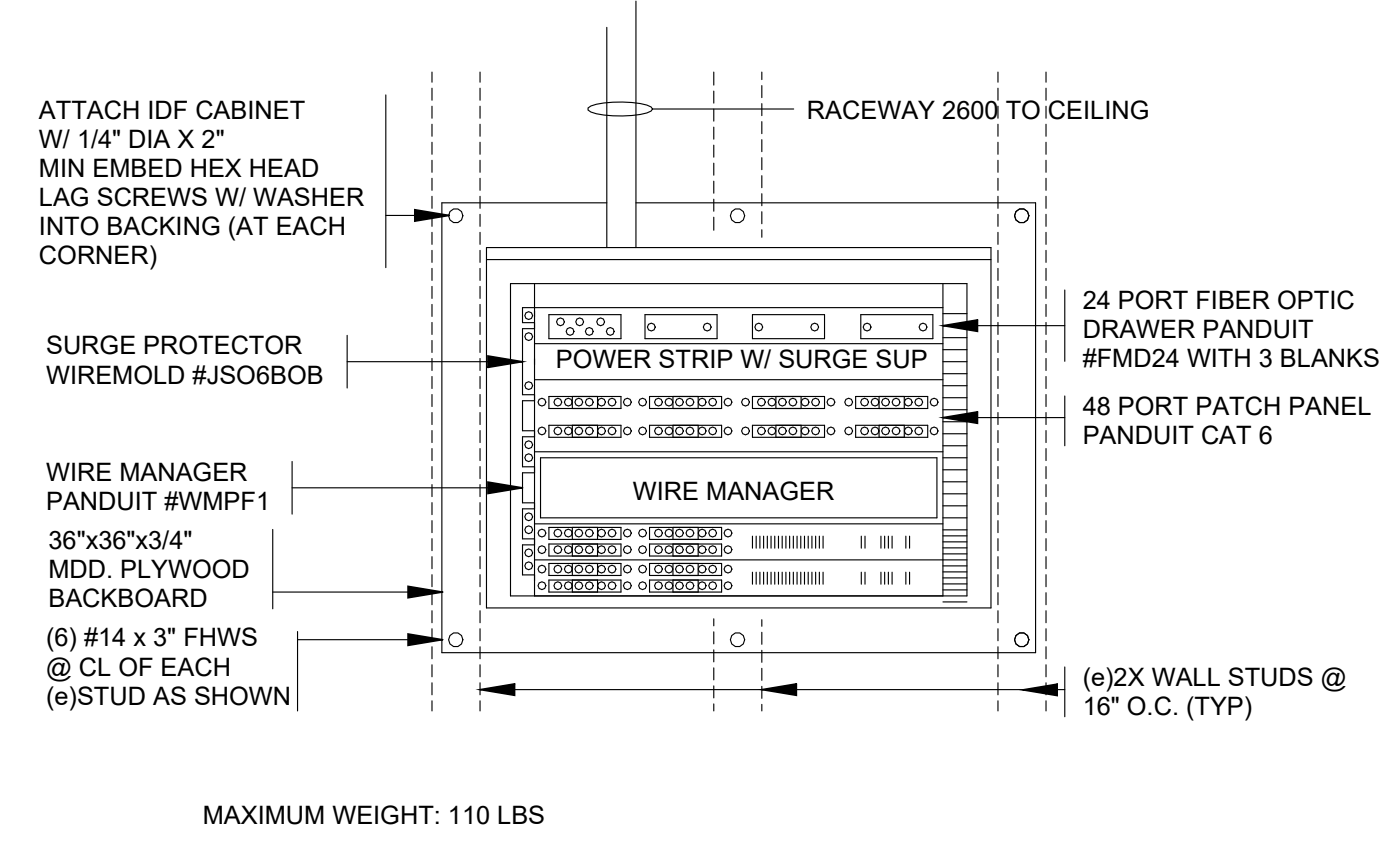
**IDF RACK LAYOUT:**

12	FIBER LIU
11	24 PORT PATCH PANEL
10	DISTRICT SWITCH
9	48 PORT PATCH PANEL
8	
7	
6	
5	
4	
3	
2	
1	

CFCI - CONTRACTOR FURNISHED / CONTRACTOR INSTALLED  
 OFCI - OWNER FURNISHED / CONTRACTOR INSTALLED  
 OFO - OWNER FURNISHED / OWNER INSTALLED

CFCI	OFCI	OFOI	ID	DESCRIPTION	MODEL / PART NUMBER
✓				FIBER LIU - 1 RU	PANDUIT / FRME1
✓				24 PORT PATCH PANEL - 1 RU	PANDUIT / CPP24FMWBL
✓				48 PORT PATCH PANEL - 2 RU	PANDUIT / CPP48FMWBL
✓				FIBER LIU - 1 RU	PANDUIT / FRME1
✓				CABINET	MDF - HOFFMAN 7 FT., PNC218119 IDF - HOFFMAN 3 FT., EWMW362430 IDF - HOFFMAN 4 FT., EWMW482430

NOTE:  
 ALL SWITCHES ARE TO BE DISTRICT PROVIDED.

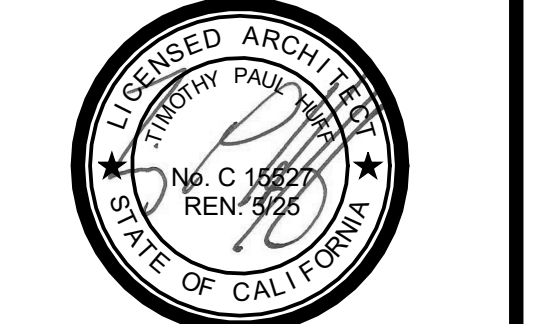


**3 COMMUNICATION PLAN**  
 SCALE: 1/8" = 1'-0"

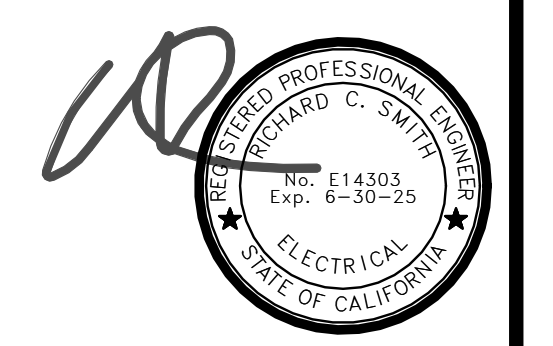
**KEY NOTES**



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**ENLARGED ELECTRICAL PLANS**

Project Number	2326
Date	Issue Date
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**REBID - April 14, 2024**



STATE OF CALIFORNIA  
**Outdoor Lighting**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-4  
 Project Name: FOBERTS FERRY Report Page: (Page 3 of 7)  
 Date Prepared: 10/5/2023

**F. OUTDOOR LIGHTING FIXTURE SCHEDULE**

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e) all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)(2) only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire <sup>1,2</sup>	How is Wattage determined	Total Number Luminaires <sup>2</sup>	Luminaire Status <sup>3</sup>	Excluded per 140.7(a) / 170.2(e)(6)	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)(1) <sup>4</sup>	Field Inspector Pass Fail
P2	LIGHT STANDARD <input type="checkbox"/> Linear	140	Mfr. Spec	1	New	<input type="checkbox"/>	140	NA: < 6200 lumens	<input type="checkbox"/> <input type="checkbox"/>
S	LED SCNCE <input type="checkbox"/> Linear	39	Mfr. Spec	6	New	<input type="checkbox"/>	234	NA: < 6200 lumens	<input type="checkbox"/> <input type="checkbox"/>
<b>Total Design Watts:</b>							374		

\* NOTES: Selections with a \* require a note in the space below explaining how compliance is achieved.  
 1K: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)  
 2 FOOTNOTES: Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per 130.2(c) / 160.5(b)  
 3 For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.  
 4 Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.  
 5 Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b) / 160.5(c)

**G. SHIELDING REQUIREMENTS (BUG)**

This section does not apply to this project.

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 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-8039-1023-1540 Report Generated: 2023-10-05 18:17:00

STATE OF CALIFORNIA  
**Outdoor Lighting**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-4  
 Project Name: FOBERTS FERRY Report Page: (Page 6 of 7)  
 Date Prepared: 10/5/2023

**M. LIGHTING ALLOWANCE: PER SPECIFIC AREA**

This section does not apply to this project.

**N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)**

This section does not apply to this project.

**O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-LTO-E - Must be submitted for all buildings

**P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title

Systems/Spaces To Be Field Verified

NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires. PARKING; WALL;

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 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-8039-1023-1540 Report Generated: 2023-10-05 18:17:00

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**CERTIFICATE OF COMPLIANCE** NRCC-LTO-4  
 Project Name: FOBERTS FERRY Report Page: (Page 2 of 7)  
 Date Prepared: 10/5/2023

**C. COMPLIANCE RESULTS**

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: if any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e) or 141.0(b)(2) / 180.2(b)(4)Bv						Compliance Results			
01	02	03	04	05	06	07	08	09	
General Hardscape Allowance	Per Application 140.7(d)(2) / 170.2(e)(6) (See Table J)	Sales Frontage 140.7(d)(2) / 170.2(e)(6) (See Table K)	Ornamental 140.7(d)(2) / 170.2(e)(6) (See Table L)	Per Specific Area 140.7(d)(2) / 170.2(e)(6) (See Table M)	Existing Power Allowance 141.0(b)(2) / 180.2(b)(4)Bv (See Table N)	Total Allowed (Watts)	Total Actual (Watts)	07 must be >= 08	
436	+	+	+	+	+	436	>=	374	COMPLIES
<b>Shielding Compliance (See Table G for Details)</b>								N/A	
<b>Controls Compliance (See Table H for Details)</b>								COMPLIES	

**D. EXCEPTIONAL CONDITIONS**

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

**E. ADDITIONAL REMARKS**

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

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 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-8039-1023-1540 Report Generated: 2023-10-05 18:17:00

STATE OF CALIFORNIA  
**Outdoor Lighting**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-4  
 Project Name: FOBERTS FERRY Report Page: (Page 5 of 7)  
 Date Prepared: 10/5/2023

**L. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))**

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/ Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B / Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Area Description	02		03		04		05		06		07		08		09	
	Area Description	Area Wattage Allowance (AWA)	Per Application Table J	Sales Frontage Table K	Ornamental Table L	Per Specific Area Table M	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Wattage Allowance (LWA)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Wattage Allowance (LWA)	Area Description	Area Wattage Allowance (AWA)	Perimeter Length (lf)	Allowed Density (W/lf)
PEDESTRIAN	4200	0.019	79.8	1040	0.2	156										
<b>Initial Wattage Allowance for Entire Site (Watts):</b> 200																
<b>Instances of Initial Wattage Allowance (LZ 0 only):</b>																
<b>Total General Hardscape Allowance (Watts):</b> 436																

**J. LIGHTING ALLOWANCE: PER APPLICATION**

This section does not apply to this project.

**K. LIGHTING ALLOWANCE: SALES FRONTAGE**

This section does not apply to this project.

**L. LIGHTING ALLOWANCE: ORNAMENTAL**

This section does not apply to this project.

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 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-8039-1023-1540 Report Generated: 2023-10-05 18:17:00

STATE OF CALIFORNIA  
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**CERTIFICATE OF COMPLIANCE** NRCC-LTO-4  
 Project Name: FOBERTS FERRY Report Page: (Page 7 of 7)  
 Date Prepared: 10/5/2023

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Richard Smith  
 Company: HCS Engineering, Inc.  
 Address: 4512 Feather River Drive #F  
 City/State/Zip: Stockton CA 95219  
 Phone: 209-478-8270

Documentation Author Signature: [Signature]  
 Signature Date: 2023-10-05  
 CEA/ HERS Certification Identification (if applicable): PE 14303

**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.
- 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.
- 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: Richard Smith  
 Company: HCS Engineering  
 Address: 4512 Feather River Dr #F  
 City/State/Zip: Stockton CA 95219  
 Phone: 209-478-8270

Responsible Designer Signature: [Signature]  
 Date Signed: 2023-10-05  
 License: e14303

Generated Date/Time: Documentation Software: EnergyPro  
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-8039-1023-1540 Report Generated: 2023-10-05 18:17:00

STATE OF CALIFORNIA  
**Outdoor Lighting**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-4  
 Project Name: FOBERTS FERRY Report Page: (Page 1 of 7)  
 Date Prepared: 10/5/2023

**A. GENERAL INFORMATION**

01 Project Location (city)	WATERFORD	04 Total Illuminated Hardscape Area (ft <sup>2</sup> )	4200
02 Climate Zone	12		
03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):			
<input type="checkbox"/> LZ-0: Very Low - Undeveloped Parkland	<input checked="" type="checkbox"/> LZ-2: Moderate - Urban Clusters	<input type="checkbox"/> LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
<input type="checkbox"/> LZ-1: Low - Rural Areas	<input type="checkbox"/> LZ-3: Moderately High - Urban Areas		
05 Occupancy Types within Project			
• Classroom			

**B. PROJECT SCOPE**

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e) or 141.0(b)(2) / 180.2(b)(4)Bv for alterations.

My Project Consists of:

01	02
<input checked="" type="checkbox"/> New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)
<input type="checkbox"/> Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? <input type="radio"/> Yes <input type="radio"/> No
03	04
% of Existing Luminaires Being Altered <sup>1</sup>	Sum Total of Luminaires Being Added or Altered
<input type="checkbox"/> < 10% <input type="checkbox"/> >= 10% and < 50% <input type="checkbox"/> >= 50%	Calculation Method

**Footnotes:** % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

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STATE OF CALIFORNIA  
**Outdoor Lighting**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-4  
 Project Name: FOBERTS FERRY Report Page: (Page 4 of 7)  
 Date Prepared: 10/5/2023

**H. OUTDOOR LIGHTING CONTROLS**

This table demonstrates 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 reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application. Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit.

**Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings**

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)(1) / 160.5(c)	Auto-Schedule 130.2(c)(2) / 160.5(c)	Motion Sensor 130.2(c)(3) / 160.5(c)	Field Inspector	
PARKING	Photocontrol	Provided	NA: >= 24 ft	Pass	Fail
WALL	Photocontrol	Provided	NA: Each Luminaire <= 40 Watts	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup> FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-4 to confirm compliance with the specific light source technologies listed.  
<sup>2</sup> Authority having jurisdiction may ask for cut sheets or other documentation to confirm compliance of light source.  
<sup>3</sup> Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

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 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-8039-1023-1540 Report Generated: 2023-10-05 18:17:00



**TIMOTHY P. HUFF & ASSOCIATES, INC.**  
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**HCS Engineering inc.**  
 4512 Feather River Dr #F, Stockton, CA 95219  
 209-478-8270 | www.hcs-eng.com

Consultants

**ROBERTS FERRY TK & KG**  
 101 ROBERTS FERRY RD, WATERFORD, CA 95386  
 ROBERT FERRY SCHOOL DISTRICT  
**EXTERIOR LIGHTING COMPLIANCE**

Project Number	2326
Date	Issue Date
Drawn by	Author
Checked by	Checker

**ET24**  
 Plot Date & Time 11/3/2023 4:12:32 PM

Solar And Battery CERTIFICATE OF COMPLIANCE NRCC-SAB-E Project Name: FOBERTS FERRY Report Page: (Page 3 of 6) Date Prepared: 11/6/2023

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance or see the applicable Table referenced below.

Table with columns: Allocated Solar Zone, Installed PV System, Installed SWH System, Smart Total and Alternative EE Measure, Compliance Results. Includes rows for 01, 02, 03, 04, 05, 06, 07, 08.

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

Generated Date/Time: Documentation Software: EnergyPro Report Version: 2022.0.000 Compliance ID: EnergyPro-8039-1123-1777 Schema Version: rev 20220101 Report Generated: 2023-11-06 13:06:45

Solar And Battery CERTIFICATE OF COMPLIANCE NRCC-SAB-E Project Name: FOBERTS FERRY Report Page: (Page 2 of 6) Date Prepared: 11/6/2023

Compliance with Solar Photovoltaic (PV) and Battery Requirements in 140.10/170.2(g and h)

Table with 2 columns: Exception, Compliance Results. Includes rows for 01, 02, 03, 04, 05, 06, 07, 08.

Compliance with Solar Thermal Water Heating Requirements in 170.2(d)(3C) (Multifamily and hotel/motel occupancies only)

Table with 2 columns: Exception, Compliance Results. Includes row for 01.

Generated Date/Time: Documentation Software: EnergyPro Report Version: 2022.0.000 Compliance ID: EnergyPro-8039-1123-1777 Schema Version: rev 20220101 Report Generated: 2023-11-06 13:06:45

Solar And Battery CERTIFICATE OF COMPLIANCE NRCC-SAB-E Project Name: FOBERTS FERRY Report Page: (Page 1 of 6) Date Prepared: 11/6/2023

A. GENERAL INFORMATION

Table with 6 columns: 01 Project Location (city), 02 Climate Zone, 03 Conditioned Floor Area (ft²), 04 Building Occupancies, 05 Construction Type, 06 Number of Stories.

B. PROJECT SCOPE

The compliance path the project is using to comply per 110.10(b)1B/140.10/170.2(g and h) is indicated below.

Compliance with Solar Readiness Requirements in 110.10(b)1B

Table with 2 columns: Exception, Compliance Results. Includes rows for 01, 02, 03, 04, 05, 06, 07, 08.

Generated Date/Time: Documentation Software: EnergyPro Report Version: 2022.0.000 Compliance ID: EnergyPro-8039-1123-1777 Schema Version: rev 20220101 Report Generated: 2023-11-06 13:06:45

Solar And Battery CERTIFICATE OF COMPLIANCE NRCC-SAB-E Project Name: FOBERTS FERRY Report Page: (Page 6 of 6) Date Prepared: 11/6/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Richard Smith, Signature Date, Address: 4512 Feather River Drive #F, Stockton CA 95219

RESPONSIBLE PERSON'S DECLARATION STATEMENT

- 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)...

Responsible Designer Name: Richard Smith, Signature Date: 2023-11-06, Address: 4512 Feather River Dr #F, Stockton CA 95219

Generated Date/Time: Documentation Software: EnergyPro Report Version: 2022.0.000 Compliance ID: EnergyPro-8039-1123-1777 Schema Version: rev 20220101 Report Generated: 2023-11-06 13:06:45

Solar And Battery CERTIFICATE OF COMPLIANCE NRCC-SAB-E Project Name: FOBERTS FERRY Report Page: (Page 5 of 6) Date Prepared: 11/6/2023

Interconnection Pathways

Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/plumbing to the electrical service/water heating system per §110.10(c).

FOOTNOTE: This field is used to document how the percentage of annual solar access was determined per §110.10(b)1B. Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstructions located on the roof or any other part of the building shall not be included in the determination of annual solar access.

G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION

This section does not apply to this project.

H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS

This section does not apply to this project.

I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION

This section does not apply to this project.

J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS

This section does not apply to this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

There are no NRCI forms required for this project.

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

Generated Date/Time: Documentation Software: EnergyPro Report Version: 2022.0.000 Compliance ID: EnergyPro-8039-1123-1777 Schema Version: rev 20220101 Report Generated: 2023-11-06 13:06:45

Solar And Battery CERTIFICATE OF COMPLIANCE NRCC-SAB-E Project Name: FOBERTS FERRY Report Page: (Page 4 of 6) Date Prepared: 11/6/2023

F. ALLOCATED SOLAR ZONE

This table is completed if the project is designating a solar zone to comply with §110.10(b)1B. New construction consider the total roof area. Additions consider newly added roof area. This table demonstrates that the project has designated the minimum area required for the Allocated Solar Zone, and also that the requirements for Solar Zone Subareas have been met.

Required Minimum Solar Zone

Table with 8 columns: 01, 02, 03, 04, 05, 06, 07, 08. Includes rows for Minimum Solar Zone Area Calculation Method, Total New or Added Roof Area, etc.

Designated Solar Zone Subareas

Table with 10 columns: 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19. Includes rows for Subarea Name or Tag, Building Plan Reference, Roof or Overhang Slope, etc.

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TIMOTHY P. HUFF & ASSOCIATES, INC. Timothy P. Huff, AIA Architect 519 McHenry Ave., Modesto, CA 95354 Ph: (209) 571-2232 Fax: (209) 571-1936



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HCS Engineering inc. 4512 Feather River Dr #F, Stockton, CA 95219 209-478-8270 | www.hcs-eng.com

Consultants

ROBERTS FERRY TK & KG 101 ROBERTS FERRY RD, WATERFORD, CA 95386 ROBERT FERRY SCHOOL DISTRICT SOLAR COMPLIANCE

Project Number: 2326 Date: Issue Date Drawn by: Author Checked by: Checker

ET24B Plot Date & Time 11/6/2023 1:12:21 PM

REBID - April 14, 2024

STATE OF CALIFORNIA  
CALIFORNIA ENERGY COMMISSION  
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**Envelope Component Approach**

CERTIFICATE OF COMPLIANCE  
Project Name: Roberts Ferry TK & KG Classroom  
Report Page: (Page 3 of 12)  
Date Prepared: 11/6/2023

**A. GENERAL INFORMATION**

01 Project Location (city)	Waterford	05 # of Stories (Habitable Above Grade)	1
02 Zipcode	95386	06 Total Conditioned Floor Area (ft²)	2707
03 Climate Zone	12	07 Total Unconditioned Floor Area (ft²)	173
04 Occupancy Types Within Project (select all that apply; if one occupancy constitutes > 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per 140.0(a))	<input checked="" type="checkbox"/> Project includes unconditioned enclosed spaces > 5,000 ft² under a roof with a ceiling height of at least 15 ft.		

• Office • Support Areas • All Other Occupancies

**B. PROJECT SCOPE**

This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in 140.3(j), 170.2(a) and 141.0(a)(1)/180.1 and 141.0(a)(2) and 170.2(a) for additions and alterations.

My project consists of (check all that apply)		Component Types	
01	02	03	04
<input checked="" type="checkbox"/> New Construction or Newly Conditioned Space	<input checked="" type="checkbox"/> Walls	<input checked="" type="checkbox"/> Exterior Opaque Doors	
<input type="checkbox"/> Addition of conditioned space	<input type="checkbox"/> Floors	<input type="checkbox"/> Fenestration/Glazed Doors	
<input type="checkbox"/> One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft	<input type="checkbox"/> Walls	<input type="checkbox"/> Exterior Opaque Doors	
<input type="checkbox"/> One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft	<input type="checkbox"/> Roof	<input type="checkbox"/> Fenestration/Glazed Doors	
<input type="checkbox"/> Addition is <=700 ft²	<input type="checkbox"/> Floors	<input type="checkbox"/> Fenestration/Glazed Doors	
<input type="checkbox"/> Addition is >700 ft²	<input type="checkbox"/> Walls	<input type="checkbox"/> Fenestration/Glazed Doors	
<input type="checkbox"/> Alteration of conditioned space	<input type="checkbox"/> Roof Assembly	<input type="checkbox"/> Floors	
<input type="checkbox"/> One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft and lighting system installed for the first time	<input type="checkbox"/> Roofing Material	<input type="checkbox"/> Walls	
	<input type="checkbox"/> Fenestration	<input type="checkbox"/> Floors	

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
Report Version: 2022.0.000  
Schema Version: rev 20220101  
Compliance ID: EnergyPro-4796-1123-0753  
Report Generated: 2023-11-06 11:03:16

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**Envelope Component Approach**

CERTIFICATE OF COMPLIANCE  
Project Name: Roberts Ferry TK & KG Classroom  
Report Page: (Page 4 of 12)  
Date Prepared: 11/6/2023

**C. COMPLIANCE RESULTS**

Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable table referenced below.

Roof Assembly	Roofing Materials	Walls	Floors	Doors	Fenestration	Daylighting Spaces	COMPLIES
01	02	03	04	05	06	07	08
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	COMPLIES
Yes	Yes	Yes	Yes	Yes	Yes	Yes	

**D. EXCEPTIONAL CONDITIONS**

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

**E. ADDITIONAL REMARKS**

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

**F. ROOF ASSEMBLY SCHEDULE**

This table demonstrates compliance for prescriptive roof assembly requirements in 140.3(j)(1)/170.2(a)(1) for new construction, 141.0(a)/180.1 for additions, or 141.0(a)(2)(b)/180.2 for alterations.

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Indicate roof types included in the project:	<input checked="" type="checkbox"/> Framed	<input type="checkbox"/> Mass (new only)	<input type="checkbox"/> Concrete Sandwich Panel (new only)	<input type="checkbox"/> SIPs	<input type="checkbox"/> Span Deck & Concrete	<input type="checkbox"/> Metal Panels	<input type="checkbox"/> Metal Building								

**G. RATED ROOFING MATERIAL (COOL ROOF)**

This table demonstrates compliance with prescriptive roof material requirements in 140.3(j)(4)/170.2(a)(4) for new construction, 141.0(a)/180.1 for additions, and 141.0(a)(2)(b)/180.2 for alterations. Roof reflectance and requirements must also document compliance with insulation requirements in Table F. Roof reflectance must be documented only in Table G.

01	02	03	04	05	06	07	08	09	10	
Tag/Plan Detail ID	Name/Description/Location	Status	Occupancy Type	Roof Slope	Roof Material	Compliance Method	Required Minimum Material Performance	Designed Material Performance	U-factor per Design	R-value of Assembly
R-30 Roof Attic	Roof	New	Nonresidential	Low slope	To Be Determined	Aged solar reflectance and thermal emittance	Reflectance: 0.63 Emittance: 0.75	Reflectance: 0.63 Emittance: 0.75	0.031	0.75

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
Report Version: 2022.0.000  
Schema Version: rev 20220101  
Compliance ID: EnergyPro-4796-1123-0753  
Report Generated: 2023-11-06 11:03:16

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CALIFORNIA ENERGY COMMISSION  
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**Envelope Component Approach**

CERTIFICATE OF COMPLIANCE  
Project Name: Roberts Ferry TK & KG Classroom  
Report Page: (Page 5 of 12)  
Date Prepared: 11/6/2023

**H. WALL ASSEMBLY SCHEDULE**

This table demonstrates compliance with prescriptive wall assembly requirements in 140.3(j)/170.2(a) for new constructions, 141.0(a)/180.1 for additions and 141.0(a)(1)/180.2 for alterations.

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Indicate wall types included in the project:	<input checked="" type="checkbox"/> Framed	<input type="checkbox"/> Mass (new only)	<input type="checkbox"/> Concrete Sandwich Panel (new only)	<input type="checkbox"/> SIPs	<input type="checkbox"/> Straw Bale	<input type="checkbox"/> Log Home (new only)									

**I. FLOOR ASSEMBLY SCHEDULE**

This table demonstrates compliance with prescriptive floor assembly requirements in 140.3(i)(4)/170.2(a)(4) for new construction, 141.0(a)/180.1 for additions, or mandatory floor assembly requirements in 141.0(b)(1)/180.2 for alterations.

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Indicate floor types included in the project:	<input checked="" type="checkbox"/> Framed	<input type="checkbox"/> SIPs (new only)	<input type="checkbox"/> Raised Mass	<input type="checkbox"/> Heated Slab-on-grade (new only)											

**J. EXTERIOR DOOR SCHEDULE**

This table demonstrates compliance with prescriptive exterior door requirements in 140.3(i)(7)/170.2(a)(7) for new construction or additions. Doors which are being replaced (alterations) do not need to be documented in this table because there are no Title 24, Part 6 requirements that apply. Exterior doors separate conditioned space from unconditioned space or from ambient air. Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on Table K with fenestration per Table A.

01	02	03	04	05	06	07
Tag/Plan Detail ID	Name/Description	Occupancy Type	Door Type	Door Insulation	Maximum Allowed U-Factor	U-factor per Design
Raised Floor	Insulated Door	Nonresidential	Swinging	Other wood door	0.7	0.2

**K. FENESTRATION AND GLAZED DOOR SCHEDULE**

This table demonstrates compliance with prescriptive fenestration requirements in 140.3(i)(3)/170.2(a)(3) for new constructions, 141.0(a)/180.1 for additions, or 141.0(a)(2)/180.2 for alterations. Fenestration types indicated above as "new only" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be checked above and compliance demonstrated within this table.

01	02	03	04	05	06	07
Indicate fenestration types included in the project:	<input type="checkbox"/> Vertical (new)	<input type="checkbox"/> Skylights	<input type="checkbox"/> Glazed Doors (new only)			

**L. DAYLIGHT IN LARGE ENCLOSED SPACES**

This section does not apply to this project.

**M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

Selections have been made based on information provided in this document. If any selection has been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

**N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2022/compliance\\_documents/nonresidential\\_documents/nrcas](https://www.energy.ca.gov/title24/2022/compliance_documents/nonresidential_documents/nrcas). Individuals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Sections 18.003(a) and 18.7.7.

**O. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

There are no forms required for this project.

Generated Date/Time: Documentation Software: EnergyPro  
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
Report Version: 2022.0.000  
Schema Version: rev 20220101  
Compliance ID: EnergyPro-4796-1123-0753  
Report Generated: 2023-11-06 11:03:16

STATE OF CALIFORNIA  
CALIFORNIA ENERGY COMMISSION  
NRC-ENV-4  
Page 6 of 12  
11/6/2023

**Envelope Component Approach**

CERTIFICATE OF COMPLIANCE  
Project Name: Roberts Ferry TK & KG Classroom  
Report Page: (Page 6 of 12)  
Date Prepared: 11/6/2023

**K. FENESTRATION AND GLAZED DOOR SCHEDULE**

This table demonstrates compliance with prescriptive fenestration requirements in 140.3(i)(3)/170.2(a)(3) for new constructions, 141.0(a)/180.1 for additions, or 141.0(a)(2)/180.2 for alterations. Fenestration types indicated above as "new only" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be checked above and compliance demonstrated within this table.

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Indicate fenestration types included in the project:	<input type="checkbox"/> Vertical (alterations)	<input type="checkbox"/> Skylights	<input type="checkbox"/> Glazed Doors (new only)												

**L. DAYLIGHT IN LARGE ENCLOSED SPACES**

This section does not apply to this project.

**M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

Selections have been made based on information provided in this document. If any selection has been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

**N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2022/compliance\\_documents/nonresidential\\_documents/nrcas](https://www.energy.ca.gov/title24/2022/compliance_documents/nonresidential_documents/nrcas). Individuals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Sections 18.003(a) and 18.7.7.

**O. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

There are no forms required for this project.

Generated Date/Time: Documentation Software: EnergyPro  
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
Report Version: 2022.0.000  
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Report Generated: 2023-11-06 11:03:16

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CALIFORNIA ENERGY COMMISSION  
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**Envelope Component Approach**

CERTIFICATE OF COMPLIANCE  
Project Name: Roberts Ferry TK & KG Classroom  
Report Page: (Page 7 of 12)  
Date Prepared: 11/6/2023

**K. FENESTRATION AND GLAZED DOOR SCHEDULE**

This table demonstrates compliance with prescriptive fenestration requirements in 140.3(i)(3)/170.2(a)(3) for new constructions, 141.0(a)/180.1 for additions, or 141.0(a)(2)/180.2 for alterations. Fenestration types indicated above as "new only" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be checked above and compliance demonstrated within this table.

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Indicate fenestration types included in the project:	<input type="checkbox"/> Vertical (alterations)	<input type="checkbox"/> Skylights	<input type="checkbox"/> Glazed Doors (new only)												

**L. DAYLIGHT IN LARGE ENCLOSED SPACES**

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CERTIFICATE OF COMPLIANCE  
Project Name: Roberts Ferry TK & KG Classroom  
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**K. FENESTRATION AND GLAZED DOOR SCHEDULE**

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Indicate fenestration types included in the project:	<input type="checkbox"/> Vertical (alterations)														

### GOVERNING CODES

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) (PART 1, TITLE 24, CCR)

2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2021 INTERNATIONAL BUILDING CODE WITH 2022 CALIFORNIA AMENDMENTS)

ASIS S200 - (WITH THE EXCEPTION THAT ENVIROPLEX COLLED ROLLED STRUCTURAL SECTIONS ARE NOT GALVANIZED)

2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)  
(2020 NATIONAL ELECTRICAL CODE WITH 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR)  
(2021 IAPMO UNIFORM MECHANICAL CODE WITH 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR)  
(2021 IAPMO UNIFORM PLUMBING CODE WITH 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)

2022 CALIFORNIA FIRE CODE (FC) (PART 9, TITLE 24, CCR)  
(2021 INTERNATIONAL FIRE CODE WITH 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11, TITLE 24, CCR)

2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

NFPA 13 - 2022 - SEE CBC CHAPTER 35.

NFPA 72 - 2022 - SEE CBC CHAPTER 35.

### DESIGN CRITERIA

#### DEAD AND LIVE LOADS

FLOOR: LIVE LOAD -

UNIFORM LOAD:  50.0 PSF  125.0 PSF  
 65.0 PSF  150.0 PSF

POINT LOAD:  CLASSROOM "CLASS E" = 1000 LBS  
 OFFICE "CLASS B" = 2000 LBS

FLOOR: DEAD LOAD -

PLYWOOD 11.0 PSF  
 PLYWOOD + LEVELROCK 11 psf + 8.25 psf = 19.25 PSF  
 CONCRETE 39.2 psf + 1.8 psf misc. = 41.0 PSF

ROOF: SNOW AND ICE LOAD - NOT PERMITTED

ROOF: LIVE LOAD - 20.0 PSF

ROOF: DEAD LOAD -

BIPITCH OR SHED 16 PSF (INCLUDES 4 PSF FOR FUTURE PV AND 1.5 PSF FIRE SPRINKLER)

VARIABLE ROOF SLOPED PORTION 11.8 PSF (INCLUDES 4 PSF FOR FUTURE PV)  
 FLAT SUB-ROOF PORTION 8.2 PSF (INCLUDES 1.5 PSF FIRE SPRINKLER)

#### ALLOWABLE SOIL PRESSURE

WOOD PLATE FOOTING 1000 PSF (DL + LL + LATERAL)

CONCRETE FOOTING 1500 PSF (DL + LL)  
2000 PSF (DL + LL + LATERAL)

#### FLOOD DESIGN

BUILDINGS IN THIS PC ARE NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA. BUILDING PADS IN THIS PC MUST BE RAISED ABOVE THE DESIGN FLOOD ELEVATION. SEE SHEET A0.1, "PC GENERAL NOTES", ITEM 16, FOR ADDITIONAL REQUIREMENTS.

#### WIND DESIGN

BASIC WIND SPEED (3 SECOND GUST), V 100 MPH  
WIND EXPOSURE CATEGORY C  
CHAPTER 28, PART 2, ASCE 7-16, SEC 28.5 - SIMPLIFIED DESIGN WIND PRESSURES  
I = 1.21  
RISK CATEGORY = II  
K<sub>z</sub> = 1.0

#### SEISMIC DESIGN CRITERIA

With site-specific geotechnical report (S<sub>u</sub> ≤ 2.025), OR  
without site-specific geotechnical report (S<sub>u</sub> ≤ 2.188) \*

LATERAL FORCE RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE PROCEDURE  
SEISMIC DESIGN CATEGORY (SDC) D (S<sub>u</sub> ≤ 0.75)  
E (0.75 < S<sub>u</sub> < 1.5)

1) RISK CATEGORY II  
2) NOT ALLOWED FOR SITE CLASS E AND F

SEISMIC IMPORTANCE FACTOR - I<sub>s</sub> = 1  
V = EQUIV. LATERAL FORCE PROCEDURE BASE SHEAR (STRENGTH DESIGN)  
V = C<sub>s</sub> W = 0.35W  
C<sub>s</sub> =  $\frac{2.5}{R}$  = 0.35

BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES  
R = 3.5  
I = 1.0  
C<sub>d</sub> = 3.0

WITH SITE-SPECIFIC GEOTECHNICAL REPORT (SITE CLASS: D)

S<sub>u</sub> = 2.625 F<sub>a</sub> = 1.0 S<sub>u6</sub> = 1.750 (SITE) \*\*  
S<sub>u</sub> = 2.625 F<sub>a</sub> = 1.0 S<sub>u6</sub> = 1.225 (DESIGN) \*\*  
S<sub>u</sub> ≤ 1.000 F<sub>a</sub> = 1.7 \*\*\* S<sub>u6</sub> ≤ 1.700

WITHOUT SITE-SPECIFIC GEOTECHNICAL REPORT (ASSUMED SITE CLASS: D)

S<sub>u</sub> = 2.188 F<sub>a</sub> = 1.2\* S<sub>u6</sub> = 1.750 (SITE) \*\*  
S<sub>u</sub> = 2.188 F<sub>a</sub> = 1.2\* S<sub>u6</sub> = 1.225 (DESIGN) \*\*  
S<sub>u</sub> ≤ 1.000 F<sub>a</sub> = 1.7 \*\*\* S<sub>u6</sub> ≤ 1.700

\* PER ASCE 7-16 SECTION 11.4.4. WHEN SITE CLASS D IS ASSUMED (i.e. NO GEOTECHNICAL REPORT), F<sub>a</sub> SHALL NOT BE LESS THAN 1.2. IN THIS PC, THE DIFFERENT MAXIMUM S<sub>u</sub> VALUES FOR WITH AND WITHOUT SITE-SPECIFIC GEOTECHNICAL REPORT WERE SELECTED SO BOTH CASES ARE DESIGNED FOR THE SAME SEISMIC DESIGN RESPONSE FACTOR C<sub>d</sub>.

\*\* PER ASCE 7-16, SECTION 12.8.1.3. THE VALUE OF C<sub>d</sub> AND E<sub>s</sub> ARE PERMITTED TO BE CALCULATED USING A VALUE OF S<sub>u</sub> EQUAL TO 1.0, BUT NOT LESS THAN 70% OF S<sub>u</sub> AS DEFINED IN SECTION 11.4.5. PROVIDED THAT ALL OF THE FOLLOWING CRITERIA ARE MET:

- STRUCTURE DOES NOT HAVE IRREGULARITIES.
- STRUCTURE DOES NOT EXCEED FIVE (5) STORIES ABOVE THE LOWER OF THE BASE OR GRADE PLANE.
- STRUCTURE HAS A FUNDAMENTAL PERIOD, T, THAT DOES NOT EXCEED 0.5 SECONDS.
- STRUCTURE MEETS REQUIREMENTS FOR REDUNDANCY FACTOR, P, TO BE TAKEN AS 1.0.
- SITE SOIL PROPERTIES ARE NOT CLASSIFIED AS SITE CLASS E OR F.
- STRUCTURE IS CLASSIFIED AS RISK CATEGORY I OR II.

\*\*\* UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE S<sub>u</sub> VALUE INCREASED BY 50 PERCENT SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.

### OPT. COMBINATIONS ALLOWED

Option combination table  
24'x40' to 120'x40' PC

applicable option selected for site specific project (to be marked/checked by PC manufacturer and verified by the design professional of the site specific project).

available option not used.

not applicable / not allowed.

		Roof	Foundation
		BIPitch	Shed
Exterior finish	Standard MDO w/ vertical grooves, cement board siding, lap siding, wood clad siding		
Stucco-flex: N/A at 2x4 stud walls - see sheet A4B.2			
3-coat stucco: N/A at 2x4 stud walls - see sheet A4B.1			
Roof slope	BIPitch	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Shed		
	Variable pitch		
Roof facades	Plant on fascia (all ext. finishes allowed)		
Roof overhangs	Transverse endwalls	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Longitudinal sidewalls		
Roof skylights	Sol-a-tubes		
Suspended canopies			
Awnings - see sheet AW2 for wall stud size requirements			
Floor load (see framing plans for joist spacing)	50 psf		
	65 psf	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	125 psf		
	150 psf		
Floor construction	1 1/8" plywood sheathing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Concrete poured in pan		
	Level rock over plywood sheathing		
Exterior wall construction	2x4 wood studs (see restrictions below)		
	2x6 wood studs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	2x8 wood studs		
Fire rated const.	NR/Sprinklered		
	Fire barriers (int & ext., multiple walls)		
HVAC	Wall mount		
	Interior		
	Roof mount	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Notes:  
1) 2x4 wood studs are NOT allowed for exterior walls on concrete floor.  
2) Exterior recessed walls are only applicable at 2x4 wood studs on plywood floor sheathing.

### BUILDING DATA

CONSTRUCTION TYPE: V-B

OCCUPANCY: "B" or "E"

BUILDING AREA: 960 TO 4600 S.F. - NOMINAL

NUMBER OF STORIES: 1

#### SITE SPECIFIC SEISMIC DESIGN CRITERIA

THESE CHECK BOXES AND VALUES ARE TO BE FILLED IN DURING A SITE-SPECIFIC APPLICATION FOR COMPARISON TO THE VALUES USED TO DESIGN THE PC.

WITH GEOTECHNICAL REPORT (SITE CLASS D)  WITHOUT GEOTECHNICAL REPORT (ASSUMED SITE CLASS D)

S<sub>u</sub> = \_\_\_\_\_ < 2.625 S<sub>u</sub> = 0.477 < 2.188

S<sub>u</sub> = \_\_\_\_\_ < 1.0 S<sub>u</sub> = 0.215 < 1.0

#### MAXIMUM DRIFTS

BIPITCH OR SHED ROOF WITH PLANT ON FASCIA 0.3"

BIPITCH OR SHED ROOF WITHOUT PLANT ON FASCIA 1.9"

VARIABLE PITCH ROOF 0.3"

### ENERGY COMPLIANCE

THIS PC IS APPROVED FOR CLIMATE ZONES: 1 THROUGH 14

#### SITE SPECIFIC OR STOCKPILE DOCUMENTATION

THE APPLICABLE CHECK BOX IS TO BE FILLED IN PRIOR TO SUBMITTING THE SITE-SPECIFIC OR STOCKPILE APPLICATION.

ENERGY COMPLIANCE REPORTS ARE NOT REQUIRED TO BE SUBMITTED FOR THIS APPLICATION. (HVAC EFFICIENCY, LIGHTING EFFICIENCY, AND THERMAL ENVELOPE IS NOT LESS THAN THAT OF THE PRE-CHECKED [PC] DESIGN. DOOR AND FENESTRATION POSITIONS/AREAS DO NOT EXCEED THAT OF THE PRE-CHECKED [PC] DESIGN).

AN UPDATED ENERGY COMPLIANCE REPORT, NRCC-PRE-F, AND DSA FORM 403-B, ARE REQUIRED TO BE SUBMITTED WITH THIS APPLICATION.

### BUILDING DATA

CONSTRUCTION TYPE: V-B

OCCUPANCY: "B" or "E"

BUILDING AREA: 960 TO 4600 S.F. - NOMINAL

NUMBER OF STORIES: 1

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THESE CHECK BOXES AND VALUES ARE TO BE FILLED IN DURING A SITE-SPECIFIC APPLICATION FOR COMPARISON TO THE VALUES USED TO DESIGN THE PC.

WITH GEOTECHNICAL REPORT (SITE CLASS D)  WITHOUT GEOTECHNICAL REPORT (ASSUMED SITE CLASS D)

S<sub>u</sub> = \_\_\_\_\_ < 2.625 S<sub>u</sub> = 0.477 < 2.188

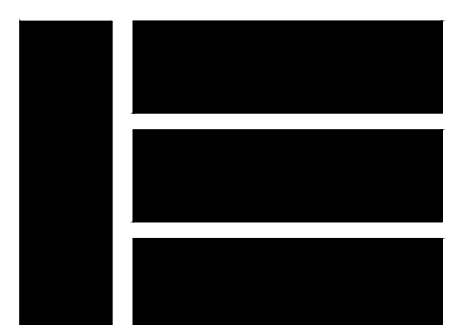
S<sub>u</sub> = \_\_\_\_\_ < 1.0 S<sub>u</sub> = 0.215 < 1.0

#### MAXIMUM DRIFTS

BIPITCH OR SHED ROOF WITH PLANT ON FASCIA 0.3"

BIPITCH OR SHED ROOF WITHOUT PLANT ON FASCIA 1.9"

VARIABLE PITCH ROOF 0.3"



# ENVIROPLEX, INC.

## STEEL ORDINARY MOMENT RESISTING FRAME MODULAR BUILDING 24'x40' TO 120'x40'

### SITE SPECIFIC APPLICATION SERIAL # 25320 - 25325

SHEET INDEX (TOTAL SHEET COUNT = 128)

MARKED BOX REPRESENTS DRAWING/OPTION TO BE USED FOR APPLICATION

<h4 style="text-align: center;">ARCHITECTURAL</h4> <p><b>Floor Plans &amp; Interior Elevations</b></p> <p><input checked="" type="checkbox"/> A0 - COVER SHEET, BUILDING CODES &amp; C.B.C. DATA, SHEET INDEX</p> <p><input checked="" type="checkbox"/> A0.1 - GENERAL NOTES, TEST &amp; INSPECTION GUIDELINE</p> <p><input checked="" type="checkbox"/> A1 - FLOOR PLAN, INTERIOR ELEVATIONS</p> <p><input checked="" type="checkbox"/> A1.0 - FLOOR PLAN OPTIONS</p> <p><input checked="" type="checkbox"/> A1.01 - TOILET ROOMS - ADULT USE</p> <p><input checked="" type="checkbox"/> A1.02 - TOILET ROOMS - AGES 3-4</p> <p><input checked="" type="checkbox"/> A1.03 - TOILET ROOMS - AGES 5-8</p> <p><input checked="" type="checkbox"/> A1.04 - TOILET ROOMS - AGES 9-12</p> <p><input checked="" type="checkbox"/> A1.05 - TOILET ROOM WALL BASE &amp; MISC. DETAILS</p> <p><input checked="" type="checkbox"/> A1.06 - MATERIAL SPECIFICATIONS &amp; NOTES</p> <p><b>Roof Plans &amp; Exterior Elevations</b></p> <p><input checked="" type="checkbox"/> A1.1 - BI-PITCHED ROOF PLAN, &amp; EXTERIOR ELEVATIONS</p> <p><input checked="" type="checkbox"/> A1E - BI-PITCHED ROOF PLAN W/ PLANT-ON FASCIA, EXTERIOR ELEVATIONS</p> <p><input checked="" type="checkbox"/> A1A.1 - SHED ROOF PLAN, &amp; EXTERIOR ELEVATIONS</p> <p><input checked="" type="checkbox"/> A1E.1 - SHED ROOF PLAN WITH PLANT-ON FASCIA, EXTERIOR ELEVATIONS</p> <p><input checked="" type="checkbox"/> A1D - VARIABLE PITCH ROOF PLAN, &amp; EXTERIOR ELEVATIONS</p> <p><input checked="" type="checkbox"/> A1E - ROOFING ATTACHMENT</p> <p><b>HVAC Unit Options, Selected Ceiling Plans, Wall Attachment, Details, and Specifications</b></p> <p><input checked="" type="checkbox"/> A2.0 - HVAC EQUIPMENT &amp; NOTES</p> <p><input checked="" type="checkbox"/> A2 - EXTERIOR HVAC UNIT MECHANICAL &amp; REFLECTED CEILING PLANS, HVAC WALL ATTACH., DETAILS, HVAC SPECS.</p> <p><input checked="" type="checkbox"/> A2A - INTERIOR HVAC UNIT MECHANICAL &amp; REFLECTED CEILING PLANS, HVAC WALL ATTACH., DETAILS, HVAC SPECS.</p> <p><input checked="" type="checkbox"/> A2B - ROOF MOUNT HVAC UNIT MECHANICAL &amp; REFLECTED CEILING PLANS, HVAC ROOF ATTACH., DETAILS, HVAC SPECS.</p> <p><b>Green Building &amp; Energy Compliance</b></p> <p><input checked="" type="checkbox"/> A3B - GREEN BUILDING STANDARDS AND SOLAR READY REQUIREMENTS</p> <p><input checked="" type="checkbox"/> EN0 - ENERGY COMPLIANCE - PERFORMANCE RUNS AND ORIENTATION TABLES</p> <p><input checked="" type="checkbox"/> EN1.1.1 - ENERGY COMPLIANCE - 24x40 GROUP A</p> <p><input checked="" type="checkbox"/> EN1.1.2 - ENERGY COMPLIANCE - 24x40 GROUP A</p> <p><input checked="" type="checkbox"/> EN1.2.1 - ENERGY COMPLIANCE - 24x40 GROUP B</p> <p><input checked="" type="checkbox"/> EN1.2.2 - ENERGY COMPLIANCE - 24x40 GROUP B</p> <p><input checked="" type="checkbox"/> EN1.3.1 - ENERGY COMPLIANCE - 24x40 GROUP C</p> <p><input checked="" type="checkbox"/> EN1.3.2 - ENERGY COMPLIANCE - 24x40 GROUP C</p> <p><input checked="" type="checkbox"/> EN1.4.1 - ENERGY COMPLIANCE - 24x40 GROUP D</p> <p><input checked="" type="checkbox"/> EN1.4.2 - ENERGY COMPLIANCE - 24x40 GROUP D</p> <p><input checked="" type="checkbox"/> EN1.5.1 - ENERGY COMPLIANCE - 24x40 GROUP E</p> <p><input checked="" type="checkbox"/> EN1.5.2 - ENERGY COMPLIANCE - 24x40 GROUP E</p> <p><input checked="" type="checkbox"/> EN2.1.1 - ENERGY COMPLIANCE - 36x40 GROUP A</p> <p><input checked="" type="checkbox"/> EN2.1.2 - ENERGY COMPLIANCE - 36x40 GROUP A</p> <p><input checked="" type="checkbox"/> EN2.2.1 - ENERGY COMPLIANCE - 36x40 GROUP B</p> <p><input checked="" type="checkbox"/> EN2.2.2 - ENERGY COMPLIANCE - 36x40 GROUP B</p> <p><input checked="" type="checkbox"/> EN2.3.1 - ENERGY COMPLIANCE - 36x40 GROUP C</p> <p><input checked="" type="checkbox"/> EN2.3.2 - ENERGY COMPLIANCE - 36x40 GROUP C</p> <p><input checked="" type="checkbox"/> EN2.4.1 - ENERGY COMPLIANCE - 36x40 GROUP D</p> <p><input checked="" type="checkbox"/> EN2.4.2 - ENERGY COMPLIANCE - 36x40 GROUP D</p> <p><input checked="" type="checkbox"/> EN2.5.1 - ENERGY COMPLIANCE - 36x40 GROUP E</p> <p><input checked="" type="checkbox"/> EN2.5.2 - ENERGY COMPLIANCE - 36x40 GROUP E</p> <p><input checked="" type="checkbox"/> EN3 - ENERGY COMPLIANCE</p> <p><input checked="" type="checkbox"/> EN4 - ENERGY COMPLIANCE</p> <p><input checked="" type="checkbox"/> EN5 - ENERGY COMPLIANCE</p> <p><input checked="" type="checkbox"/> EN6 - ENERGY COMPLIANCE</p> <p><input checked="" type="checkbox"/> EN7 - ENERGY COMPLIANCE</p> <p><input checked="" type="checkbox"/> EN8 - ENERGY COMPLIANCE</p> <p><b>Electrical &amp; Lighting</b></p> <p><input checked="" type="checkbox"/> A3 - ELECTRICAL POWER PLAN, SIGNAL PLAN, DETAILS, ELECTRICAL NOTES</p> <p><input checked="" type="checkbox"/> A3.1 - LIGHTING PLAN, NOTES</p> <p><input checked="" type="checkbox"/> A3.10 - ELECTRICAL &amp; LIGHTING PLANS FOR TOILET ROOM OPTIONS</p> <p><b>Bi-Pitched Roof Sections &amp; Details</b></p> <p><input checked="" type="checkbox"/> A4.R - BI-PITCHED ROOF SECTIONS AND DETAILS (2x4 EXTERIOR WALLS)</p> <p><input checked="" type="checkbox"/> A4.1.R - BI-PITCHED ROOF SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)</p> <p><input checked="" type="checkbox"/> A4.1.S - BI-PITCHED ROOF SECTIONS AND DETAILS (2x8 EXTERIOR WALLS)</p> <p><input checked="" type="checkbox"/> A4.3.R - BI-PITCHED ROOF SECTIONS AND DETAILS (1-HOUR 2x6 FIRE BARRIER DETAILS)</p> <p><input checked="" type="checkbox"/> A4.3.S - BI-PITCHED ROOF SECTIONS AND DETAILS (1-HOUR 2x8 FIRE BARRIER DETAILS)</p> <p><input checked="" type="checkbox"/> A4.E.R - BI-PITCH ROOF W/ PLANT-ON FASCIA, SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)</p> <p><input checked="" type="checkbox"/> A4.E.S - BI-PITCH ROOF W/ PLANT-ON FASCIA, SECTIONS AND DETAILS (2x8 EXTERIOR WALLS)</p> <p><b>Shed Roof Sections &amp; Details</b></p> <p><input checked="" type="checkbox"/> A4A.R - SHED ROOF SECTIONS AND DETAILS (2x4 EXTERIOR WALLS)</p> <p><input checked="" type="checkbox"/> A4A.1.R - SHED ROOF SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)</p> <p><input checked="" type="checkbox"/> A4A.1.S - SHED ROOF SECTIONS AND DETAILS (2x8 EXTERIOR WALLS)</p> <p><input checked="" type="checkbox"/> A4A.3.R - SHED ROOF SECTIONS AND DETAILS (1-HOUR 2x6 FIRE BARRIER DETAILS)</p> <p><input checked="" type="checkbox"/> A4A.3.S - SHED ROOF SECTIONS AND DETAILS (1-HOUR 2x8 FIRE BARRIER DETAILS)</p> <p><input checked="" type="checkbox"/> A4E.1.R - SHED ROOF W/ PLANT-ON FASCIA, SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)</p> <p><input checked="" type="checkbox"/> A4E.1.S - SHED ROOF W/ PLANT-ON FASCIA, SECTIONS AND DETAILS (2x8 EXTERIOR WALLS)</p> <p><b>Variable Pitch Roof Sections &amp; Details</b></p> <p><input checked="" type="checkbox"/> A4D.R - VARIABLE PITCH ROOF SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)</p> <p><input checked="" type="checkbox"/> A4D.S - VARIABLE PITCH ROOF SECTIONS AND DETAILS (2x8 EXTERIOR WALLS)</p> <p><b>Architectural Details</b></p> <p><input checked="" type="checkbox"/> A4B - STUCCO MATERIAL SPECIFICATIONS</p> <p><input checked="" type="checkbox"/> A4B.1 - TYPICAL STUCCO FINISH DETAILS</p> <p><input checked="" type="checkbox"/> A4B.2 - TYPICAL STUCCO-FLEX FINISH DETAILS</p> <p><input checked="" type="checkbox"/> A4S - OPTIONAL SIDEWALL OVERHANG DETAIL</p> <p><input checked="" type="checkbox"/> A4C.1 - NON RATED WALL ATTACHMENT DETAILS (CONCRETE FLOORS)</p> <p><input checked="" type="checkbox"/> A4C.2 - 1-HOUR FIRE BARRIER WALL ATTACHMENT DETAILS (CONCRETE FLOORS)</p> <p><input checked="" type="checkbox"/> A4L - "LEVEL ROCK" FLOOR UNDERLAYMENT OPTION (PLYWOOD FLOORS)</p> <p><input checked="" type="checkbox"/> A4H - INTERIOR WALL CONNECTION DETAILS</p> <p><input checked="" type="checkbox"/> A4H.1 - INTERIOR WALL CONNECTION DETAILS (1-HOUR FIRE BARRIERS)</p> <p><input checked="" type="checkbox"/> A4H.3 - SEISMIC GAP CLOSURE DETAILS</p> <p><input checked="" type="checkbox"/> A5 - MISCELLANEOUS DETAILS</p> <p><input checked="" type="checkbox"/> A5.1 - SOL-A-TUBE SKYLIGHT OPTION</p> <p><b>Deterioration Protection, Wood Floors</b></p> <p><input checked="" type="checkbox"/> A6 - DETERIORATION PROTECTION (2x4 EXTERIOR WALLS) (WOOD FLOORS) (BUILDING UNDER 2160 S.F.)</p> <p><input checked="" type="checkbox"/> A6.0 - DETERIORATION PROTECTION (2x6 OR 2x8 EXT. WALLS) (WOOD FLOORS) (BLDG. UNDER 2160 S.F.)</p> <p><input checked="" type="checkbox"/> A6.1 - DETERIORATION PROTECTION (2x4 EXTERIOR WALLS) (WOOD FLOORS) (BUILDING OVER 2160 S.F.)</p> <p><input checked="" type="checkbox"/> A6.2 - DETERIORATION PROTECTION (2x6 OR 2x8 EXT. WALLS) (WOOD FLOORS) (BUILDING OVER 2160 S.F.)</p> <p><b>Deterioration Protection, Concrete Floors</b></p> <p><input checked="" type="checkbox"/> A6.4 - DETERIORATION PROTECTION (2x6 OR 2x8 EXT. WALLS) (CONC. FLOORS) (BLDG. UNDER 2160 S.F.)</p> <p><input checked="" type="checkbox"/> A6.6 - DETERIORATION PROTECTION (2x6 OR 2x8 EXT. WALLS) (CONC. FLOORS) (BLDG. OVER 2160 S.F.)</p>	<h4 style="text-align: center;">STRUCTURAL</h4> <p><b>Foundation Plans, Details and Notes (Wood Floors)</b></p> <p><input checked="" type="checkbox"/> S1 - FOOTING DETAILS &amp; NOTES</p> <p><input checked="" type="checkbox"/> S1C - CONCRETE FOUNDATION PLAN, NO CRAWLSPACE, FOOTING DETAILS &amp; NOTES (WOOD FLOORS)</p> <p><input checked="" type="checkbox"/> S1C.1 - CONCRETE FOUNDATION PLAN WITH CRAWLSPACE, FOOTING DETAILS (WOOD FLOORS)</p> <p><input checked="" type="checkbox"/> S1C.2 - MISCELLANEOUS FOOTING DETAILS (WOOD FLOORS)</p> <p><b>Foundation Plans, Details and Notes (Concrete Floors)</b></p> <p><input checked="" type="checkbox"/> S1C.3 - CONCRETE FOUNDATION PLAN, NO CRAWLSPACE, FOOTING DETAILS &amp; NOTES (CONCRETE FLOORS)</p> <p><input checked="" type="checkbox"/> S1C.4 - CONCRETE FOUNDATION PLAN WITH CRAWLSPACE, FOOTING DETAILS (CONCRETE FLOORS)</p> <p><input checked="" type="checkbox"/> S1C.5 - MISCELLANEOUS FOOTING DETAILS (CONCRETE FLOORS)</p> <p><input checked="" type="checkbox"/> S1C5 - CONCRETE FOUNDATION SHM DETAILS</p> <p><b>Wood Foundation Plans, Details and Notes</b></p> <p><input checked="" type="checkbox"/> S1WS0 - 50 P.S.F. WOOD FOUNDATION PLAN, PIER DETAILS, NOTES</p> <p><input checked="" type="checkbox"/> S1WS0A - 50 P.S.F. WOOD FOUNDATION PLANS</p> <p><input checked="" type="checkbox"/> S1WS5 - 65 P.S.F. WOOD FOUNDATION PLAN, PIER DETAILS, NOTES</p> <p><input checked="" type="checkbox"/> S1WS5A - 65 P.S.F. WOOD FOUNDATION PLANS</p> <p><b>Roof, Ceiling, and Floor Framing Plans, Structural Steel Properties, Notes</b></p> <p><input checked="" type="checkbox"/> S2 - BI-PITCH ROOF, CEILING, FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES</p> <p><input checked="" type="checkbox"/> S2A - SHED ROOF, CEILING, FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES</p> <p><b>Plant on Fascia, Roof, Ceiling, and Floor Framing Plans, Structural Steel Properties, Notes, and Details</b></p> <p><input checked="" type="checkbox"/> S2E - BI-PITCH ROOF PLANT ON FASCIA, CEILING, FLOOR FRAMING PLANS, STRUCT. STEEL PROP., NOTES</p> <p><input checked="" type="checkbox"/> S2E.1 - SHED ROOF PLANT ON FASCIA, CEILING, FLOOR FRAMING PLANS, STRUCT. STEEL PROP., NOTES</p> <p><input checked="" type="checkbox"/> S2E.2 - PLANT-ON FASCIA, STRUCTURAL DETAILS</p> <p><input checked="" type="checkbox"/> S2E.3 - PLANT-ON FASCIA, STRUCTURAL DETAILS</p> <p><b>Variable Pitch, Roof, Ceiling, and Floor Framing Plans, Structural Steel Properties, Notes, and Details</b></p> <p><input checked="" type="checkbox"/> S2D - VARIABLE SLOPE ROOF, CEILING, FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES</p> <p><input checked="" type="checkbox"/> S2D.1 - VARIABLE SLOPE ROOF, STRUCTURAL DETAILS</p> <p><input checked="" type="checkbox"/> S2D.2 - VARIABLE SLOPE ROOF, STRUCTURAL DETAILS</p> <p><b>Floor Framing Options</b></p> <p><input checked="" type="checkbox"/> S2C.1 - FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES (CONCRETE FLOORS)</p> <p><input checked="" type="checkbox"/> S3FA - FASTENING SCHEDULE &amp; NOTES.</p> <p><b>Sections and Elevations</b></p> <p><input checked="" type="checkbox"/> S3 - BI-PITCHED ROOF LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION</p> <p><input checked="" type="checkbox"/> S3E - BI-PITCH ROOF PLANT-ON FASCIA LONG. BUILDING SECTION, WALL FRAMING ELEV., END FRAME ELEV.</p> <p><input checked="" type="checkbox"/> S3A - SHED ROOF LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION</p> <p><input checked="" type="checkbox"/> S3E.1 - SHED ROOF PLANT-ON FASCIA LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEV.</p> <p><input checked="" type="checkbox"/> S3D - VARIABLE SLOPE ROOF LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION</p> <p><input checked="" type="checkbox"/> S3R - ROLL UP DOOR, ROLL UP WINDOW, DOUBLE DOOR FRAMING</p> <p><b>Structural Details</b></p> <p><input checked="" type="checkbox"/> S4 - STRUCTURAL CONNECTION DETAILS</p> <p><input checked="" type="checkbox"/> S4.1 - OPTIONAL STRUCTURAL DETAILS</p> <p><input checked="" type="checkbox"/> S4.2 - MISCELLANEOUS STRUCTURAL DETAILS</p> <p><input checked="" type="checkbox"/> S4.3 - METAL SOFFIT PANELS, REMOVABLE CASSETTE</p> <p><input checked="" type="checkbox"/> S4.4 - METAL SOFFIT PANELS, REMOVABLE CASSETTE WITH WALL MOUNT HVAC UNIT</p> <p><input checked="" type="checkbox"/> S4C - STRUCTURAL CONNECTION DETAILS (CONCRETE FLOORS)</p> <p><b>Suspended Canopy &amp; Awnings</b></p> <p><input checked="" type="checkbox"/> W1 - CANOPY FRAMING &amp; CONNECTION DETAILS</p> <p><input checked="" type="checkbox"/> W2 - CANOPY FRAMING &amp; CONNECTION DETAILS</p> <p><input checked="" type="checkbox"/> W1 - METAL AWNING</p> <p><input checked="" type="checkbox"/> W2 - METAL AWNING</p> <p><b>Ramp, Platform, Stairs</b></p> <p><input checked="" type="checkbox"/> SR - ACCESSIBLE RAMP &amp; PLATFORM DETAILS</p> <p><input checked="" type="checkbox"/> SR.1 - PLATFORM DETAILS (PLATFORM OVER 18" HEIGHT)</p> <p><input checked="" type="checkbox"/> SR.2 - RAMP HANDRAIL AT GUARDS (RAMP/PLATFORM 30" TO 48" MAX ABOVE GRADE)</p> <p><input checked="" type="checkbox"/> SS - STAIR DETAILS</p>
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**CYS**  
STRUCTURAL ENGINEERS, INC.  
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Foster City, CA 94404  
(650) 949-1400 (FAX)  
www.cyseng.com

10/11/2023

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

**ENVIROPLEX, INC.**  
477E CARPENTER ROAD  
STOCKTON, CA 95215  
(209) 466-8000

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT

APP: 02-121249-PC  
REVIEWED FOR  
SS [ ] PLS [ ] ACS [ ] CG [ ]

DATE: 10/24/2023

ROBERTS FERRY ES  
at  
ROBERTS FERRY UESD

SHEET INDEX,  
DESIGN CRITERIA,  
GOVERNING CODES,  
OPTIONS TABLE

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

PRE-CHECK (PC) DOCUMENT  
Code: 2023 CBC  
A separate project application for construction is required.

A0

# REBID - April 14, 2024

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24'x40' TO 120'x40' PC

## TEST & INSPECTION GUIDELINE

TEST and INSPECTIONS (as listed on Form DSA 103-22, 2022 CBC)		TYPE OF MODULAR STEEL MOMENT FRAME BUILDING PROJECT (X-INDICATES TEST OR INSPECTION TO BE DONE)							
		STOCKPILE			CONSTRUCTION OF (Subsequent material-foundation materials)		RELOCATION OF CERTIFIED BUILDING		
MATERIAL TYPE	TEST ITEM #	DESCRIPTION	WOOD FLOOR ONLY see note 5	CONCRETE FLOORS	PLYWOOD FLOOR ONLY WOOD FOUNDATION see note 5	PLYWOOD FLOOR CONCRETE FOUNDATION	CONCRETE FLOOR, CONCRETE FOUNDATION	WOOD FOUNDATION see note 5	CONCRETE FOUNDATION
SOILS	GENERAL SPECIALIZED	S1 a	Verify that: • Site has been prepared properly prior to placement of controlled excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.				X	X	X
		S2 a	Perform classification and testing of fill materials.				X	X	X
		S2 b	Verify use of proper materials, densities and inspect lift thickness, placement and compaction during placement of fill.				X	X	X
CONCRETE	CONCRETE FIELDS CONCRETE	C1 a	Verify use of required design mix.		X			X	
		C1 b	Identify, sample, and test reinforcing steel. See Note 1 for water.		X			X	
		C1 c	During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.			X		X	
		C1 d	Test concrete (f <sub>c</sub> ).		X			X	
		C1 e	Batch plant inspection - continuous. See Note 2 for water.		X			X	
		C1 f	Verify use of required design mix.				X	X	X
	FOUNDATION	C1 b	Identify, sample, and test reinforcing steel. See Note 1 for water.				X	X	X
		C1 c	During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.			X	X	X	X
		C1 d	Test concrete (f <sub>c</sub> ).			X	X	X	X
		C1 e	Batch plant inspection - continuous. See Note 2 for water.			X	X	X	X
		C1 f	Verify use of required design mix.				X	X	X
		C1 g	Identify, sample, and test reinforcing steel. See Note 1 for water.				X	X	X
STRUCTURAL STEEL	VERIFYING THE MATERIALS EQUIPMENT WELDERS, ETC.	SI A1 a	Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	X	X	X	X	X	X
		SI A1 b	Test unidentified materials.	X	X	X	X	X	X
		SI A1 c	Examine seam welds of HSS shapes.	X	X	X	X	X	X
		SI A1 d	Verify and document steel fabrication per DSA approved construction documents.	X	X	X	X	X	X
		SI A2 a	Verify weld filler material identification markings per AWS. Magnagnon listed on the DSA approved documents and the WPS.	X	X	X	X	X	X
		SI A2 b	Verify weld filler material manufacturer's certificate of compliance.	X	X	X	X	X	X
	SHIP WELDING (EXEMPT)	SI A3 a	Verify WPS, welder qualifications and equipment.	X	X	X	X	X	X
		SI A4 a	Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	X	X	X	X	X	X
		SI A4 b	Inspect single pass fillet welds ≤ 5/16". Root and root deck welds.	X	X	X	X	X	X
		SI A4 c	Inspect welding of stairs and railing systems.	X	X	X	X	X	X
		SI A4 d	Verification of reinforcing steel weldability other than ASTM 706.			X	X	X	X
		SI A4 e	Inspect welding of reinforcing steel.			X	X	X	X
	FIELD WELDING (EXEMPT)	SI A5 a	Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.			X	X	X	X
		SI A5 b	Inspect single pass fillet welds ≤ 5/16".			X	X	X	X
		SI A5 c	Inspect welding of stairs and railing systems.			X	X	X	X
		SI A5 d	Shop welding - Inspect end-welded studs (ASTM A-193) installation (including bend test).			X	X	X	X
	OTHER STEEL	SI A11 a	Shop welding - Inspect welding of cold formed steel.	X	X	X	X	X	X
		SI A11 b	Shop Welding - Inspect welding of steel floor deck welds.		X			X	
SI A11 c		Shop Welding - Inspect welding of steel floor deck welds.		X			X		
NON-DUCTILE	SI A6 a	Ultrasonic. See note 8.	X	X	X	X	X	X	
	SI A6 b	Magnetic Particle. See note 8.	X	X	X	X	X	X	

**INSPECTOR CLASS (minimum requirements)**  
RBP or Class 1

**SELECTION OF THE PROJECT INSPECTOR AND TESTING AGENCY**  
By the Owner and approved by DSA, A/E of Record and Structural Engineer

**COST OF THE PROJECT INSPECTOR (Title 24, Part 1, Section 4-3336)**  
By the Owner (not manufacturer)

**AND TESTING AGENCY (Title 24, Part 1, Section 4-336)**  
By the School District

**NOTE 1:** Reinforcing steel tests may be waived for one-story buildings where certified mill test reports are provided to IOR for each shipment. CBC sec 1910A.2.  
Not used.

**NOTE 2:** Required only where the details of the PC specify this welding.  
These tests and inspections are applicable only when a geotechnical report is required.

**NOTE 3:** Wood foundations are not permitted for permanent modular buildings per CBC sec 1807A.1.4.  
Not used.

**NOTE 4:** If approved by DSA, batch plant inspection may be reduced to "Periodic" subject to requirements in Section 1705A.3.3.1 or eliminated per 1705A.3.3.2.

**NOTE 5:** Nondestructive testing inspection is to be determined by AOR/DSA per project specific requirements. UT testing shall be performed on 100% of complete joint penetration groove welds when columns have a thickness of 5/16" or greater.  
Magnetic particle testing shall be performed on 25% of all beam-to-column complete joint penetration groove welds.


**NOTE 6:** The Example form DSA-103's shown on this sheet are for illustration purposes only to assist in the completion of future project-specific form DSA-103's. A form DSA-103 is to be completed for each application that this PC is being incorporated into and all Example form DSA-103's are to be crossed out on this drawing.

## DSA GENERAL NOTES

- ALL MATERIALS & WORKMANSHIP SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE (C.B.C.). A COPY OF THE CALIFORNIA BUILDING CODE SHALL BE KEPT ON THE SITE AT ALL TIMES.
- CHANGES TO THE APPROVED DRAWINGS & SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SEC. 4-338, PART 1, TITLE 24, CDR.
- A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) & APPROVED BY THE ARCHITECT OF RECORD & THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-333(b) OF 2022 TITLE 24, PART 1.
- MATERIAL TESTING AS NOTED IN THE STRUCTURAL TESTS & INSPECTIONS AT THE LEFT SHALL BE PERFORMED AS REQ. PER SECTION 1704A & 2212A, & 1910A FOR CONCRETE OF 2022 C.B.C. MATERIAL TESTING REQUIRED BY FIRE REGULATIONS SHALL BE PERFORMED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
- VERIFIED REPORTS (DSA/SSS FORM 6) SHALL BE SUBMITTED PER SECTION 4-336, 4-341(f), 342(b)(9), AND 4-343 (c) BY THE MANUFACTURER, INSPECTOR, STRUCTURAL ENGINEER. REQUIRED. A COMPLETE FIRE SPRINKLER DESIGN SHALL BE SUBMITTED FOR DSA APPROVAL FOR THE SITE SPECIFIC APPLICATION.
- A SEPARATE DSA APPLICATION NUMBER MUST BE OBTAINED BEFORE MANUFACTURING ANY ENVIROPLEX UNIT IN ACCORDANCE WITH THESE DRAWINGS.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS & ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- SPECIAL INSPECTIONS PER CHAPTER 17A, 2022 C.B.C.
- SITE SPECIFIC APPLICATION SHALL CLEARLY INDICATE THE SCOPE OF WORK ON THE COVER SHEET OR GENERAL NOTE SHEET OF THE DRAWINGS.


## PC GENERAL NOTES

- THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USES.
  - PC BUILDING APPROVED ONLY FOR OCCUPANCY B, or E WITH OCCUPANT LOAD LESS THAN 250. (2022 CBC TABLE 1604A.5 RISK CATEGORY I & II).
  - PC BUILDING EXISTING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
  - PC BUILDING LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A.
  - THIS PC IS APPROVED FOR FIRE HAZARD SEVERITY ZONES PER C.B.C. CHAPTER 7A. REFER TO WILDLAND URBAN INTERFACE NOTES ON SHEET A1N FOR REQUIREMENTS.
  - SITE AND USE SPECIFIC REQUIREMENT FOR FIRE ALARM SYSTEM MIGHT BE REQUIRED BUT NOT INCLUDED IN THIS PC APPROVAL.
  - THIS BUILDING IS STRUCTURALLY DESIGNED TO SUPPORT THE WEIGHT OF A FUTURE FIRE SPRINKLER SYSTEM (EQUIVALENT TO 1.5 psf MAXIMUM), IF REQUIRED. AUTOMATIC FIRE SPRINKLER SYSTEM IS NOT DESIGNED NOR APPROVED AS PART OF THIS PC. IF REQUIRED, A COMPLETE FIRE SPRINKLER DESIGN SHALL BE SUBMITTED FOR DSA APPROVAL FOR THE SITE SPECIFIC APPLICATION.
  - NOT USED.
  - THIS PC IS NOT ELIGIBLE FOR OTC REVIEWS WHERE HAZARDOUS MATERIALS ARE USED OR STORED IN ROOMS OR AREAS. A SITE SPECIFIC APPLICATION IS REQUIRED FOR DSA APPROVAL.
  - DRAWINGS REQUIRED FOR CONCRETE SPAGES OVER 3000 SQ. FT. (0.0-0-740)**
  - A WAIVER OF DURABILITY IS REQUIRED FOR BUILDINGS 2,160 SQUARE FEET OR LESS WHEN EITHER OF THE FOLLOWING CONDITIONS EXISTS:  
- A NON-PERMANENT FOUNDATION IS USED.  
- A PERMANENT EXTERIOR FOUNDATION IS USED AND THE DISTANCE FROM THE EXTERIOR EXPOSED GROUND OR PAVEMENT TO UNTREATED WOOD WALL FRAMING (INCLUDING THE WALL SHEATHING) IS LESS THAN REQUIRED BY CBC SECTION 2304.12.1.2.
- THE REQUEST FOR A WAIVER OF DURABILITY MAY BE MADE ON THE DSA-1 APPLICATION FORM OR BY LETTER FROM THE APPLICANT OR AN AGENT OF THE APPLICANT. A REQUEST FOR WAIVER FROM THE BUILDING MANUFACTURER OR LEASING COMPANY WILL NOT BE ACCEPTED. THIS WRITTEN REQUEST SHALL BE SUBMITTED TO DSA BEFORE THE CONSTRUCTION DOCUMENTS ARE APPROVED BY DSA.
- ENVIRONMENTAL COMFORT FOR SITE ADOPTED PC BUILDINGS:  
PC MANUFACTURER SHALL DISCUSS WITH THE SCHOOL DISTRICT IF THE FOLLOWING NOISE LEVELS ARE EVER EXPERIENCED ON CAMPUS:  
1. WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT.  
2. WITHIN THE 65 CNEL OR Ldn NOISE CONTOUR OF A FREEWAY, EXPRESSWAY, RAILROAD, OR INDUSTRIAL SOURCE GUIDEWAY.  
3. WHERE EXPOSED TO NOISE LEVEL OF 65dB Leq-1-hr DURING ANY HOUR OF OPERATION.
- PC BUILDING INTERIOR WALLS BETWEEN CLASSROOMS, TEACHER WORK SPACES, BREAK OUT ROOMS, OR OTHER OCCUPIED SPACES SHALL HAVE A MINIMUM STC OF AT LEAST 40.
- BUILDINGS IN THIS PC ARE STRUCTURALLY DESIGNED TO SUPPORT THE WEIGHT OF FUTURE PHOTOVOLTAIC (PV) SYSTEM, IF REQUIRED (SEE THE PC DESIGN CRITERIA FOR MAX ROOF DEAD LOAD).
- THE PHOTOVOLTAIC SYSTEM IS NOT DESIGNED NOR APPROVED AS PART OF THIS PC. IF REQUIRED, A COMPLETE PHOTOVOLTAIC SYSTEM DESIGN SHALL BE SUBMITTED FOR DSA APPROVAL FOR THE SITE SPECIFIC APPLICATION.
- SITE SPECIFIC DESIGN AND INSTALLATION OF PHOTOVOLTAIC SYSTEM IS NOT BY ENVIROPLEX.
- BUILDING MANUFACTURER SHALL LEAVE FOR THE BUILDING OWNER ALL OCCUPANCY OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF MECHANICAL EQUIPMENT AND LIGHTING SYSTEMS.
- GEOHAZARD REPORTS:  
SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY THE CALIFORNIA GEOLOGICAL SURVEY (CGS) IS NOT REQUIRED FOR THE FOLLOWING CASES:  
  
EXISTING SITES OUTSIDE OF A MAPPED GEOLOGIC HAZARD ZONE: SINGLE-STORY RELOCATABLE BUILDINGS 4,000 SQUARE FEET (SQ. FT.) OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4: GEOHAZARD REPORT REQUIREMENTS. SECTION 3.2.1 ARE EXEMPT FROM THE REQUIREMENT TO PROVIDE A GEOHAZARD REPORT. THE STRUCTURES MAY BE SPLIT INTO MULTIPLE SEISMICALLY SEPARATED STRUCTURES TO STAY BELOW THE 4,000 SQ. FT. TRIGGER.
- SITES WITHIN A MAPPED GEOLOGIC HAZARD ZONE: FOR SINGLE-STORY RELOCATABLE BUILDINGS 2,160 SQ. FT. OR LESS ON NON-PERMANENT FOUNDATIONS AND COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 2.6, DSA MAY WAIVE THE REQUIREMENT FOR SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY CGS IF A GEOHAZARD REPORT IS PROVIDED THAT INDICATES THERE ARE NO GEOLOGIC HAZARDS AT THE SITE.
- FLOOD HAZARDS:  
WHEN A FUTURE SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER FROM A GEOTECHNICAL ENGINEER (BEARING HIS/HER STAMP AND SIGNATURE) IS REQUIRED TO VALIDATE THE APPLICABILITY OF THE ALLOWABLE SOIL VALUES LISTED ON THE PC DRAWINGS.  
EXEMPTION:  
VALIDATION LETTER IS NOT REQUIRED FOR PROJECTS LOCATED IN ZONE D (UNDEFINED) IF A GEOTECHNICAL REPORT WRITTEN FOR IMPROVEMENTS ON THE SAME CAMPUS AND IN ACCORDANCE WITH THE CURRENT CBC IS PROVIDED THAT EITHER (1) CONFIRMS THE SITE IS NOT IN A FLOOD HAZARD ZONE OR (2) ACKNOWLEDGES THE FLOOD HAZARD BUT CONFIRMS IT DOES NOT RESULT IN A REDUCTION OF SOIL CAPACITY VALUES.




**CYSO**  
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1910 Nimitz Park Drive, Suite 400  
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10/11/2023

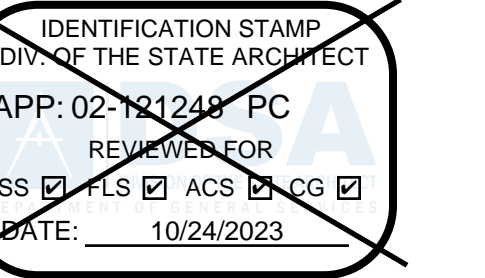


REGISTERED PROFESSIONAL ENGINEER  
No. S23030  
ARTIST  
STATE OF CALIFORNIA

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DATE: 10/24/2023

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at  
**ROBERTS FERRY UESD**

**GENERAL NOTES,  
TEST & INSPECTION  
GUIDELINE**

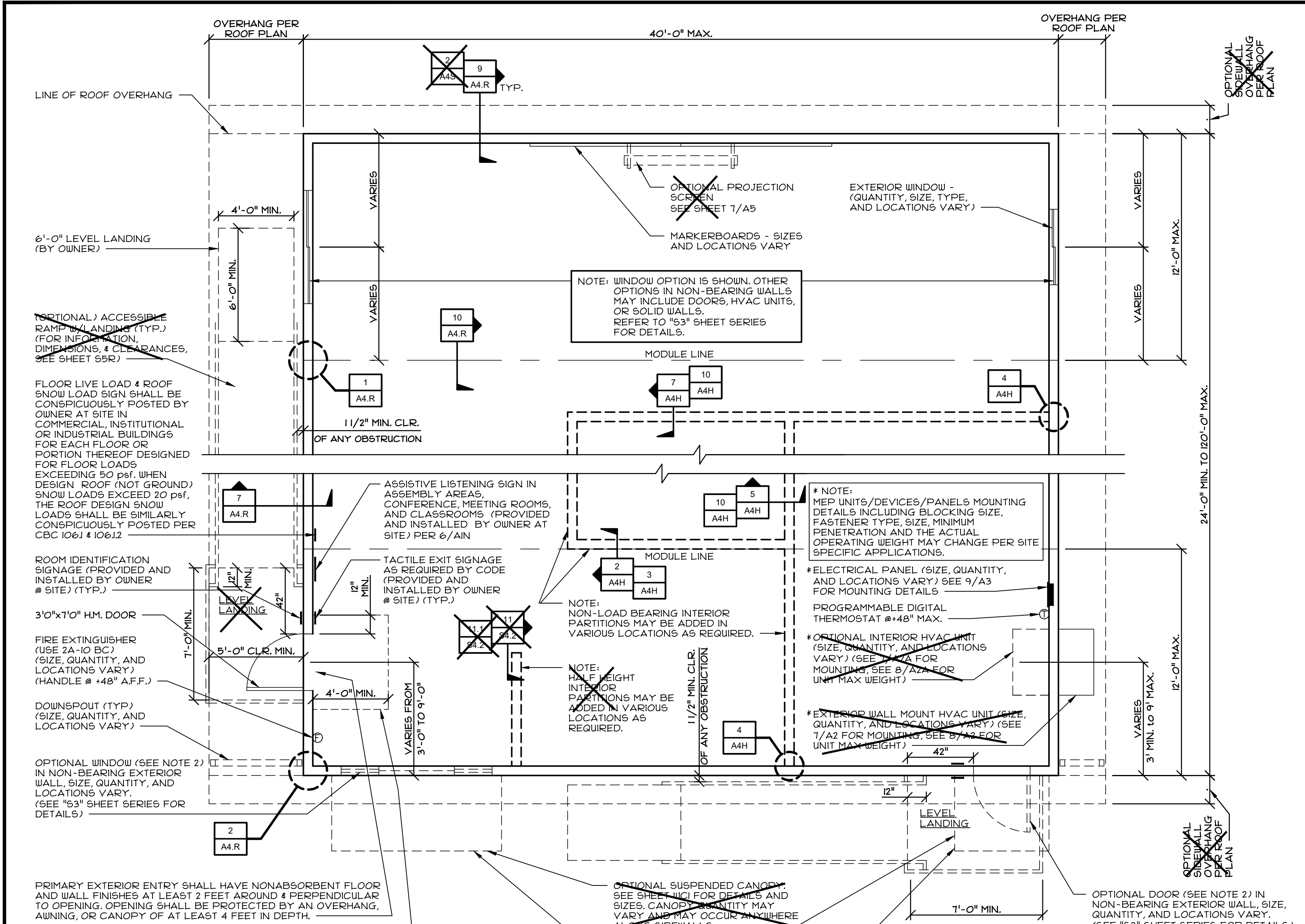
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A0.1

24"x40" TO 120"x40" P.C.



FLOOR PLAN AS DEPICTED SHALL NOT BE CONSTRUCTED NOR SHALL BE REVIEWED FOR APPROVAL AT OTC APPOINTMENTS.

FLOOR PLAN AS SHOWN INTENDS TO ILLUSTRATE THE ALLOWABLE STRUCTURAL FLEXIBILITY TO MANUFACTURE A VARIETY OF BUILDING SIZES BY CONNECTING MULTIPLE MOMENT FRAME MODULES TOGETHER TO FORM ONE BUILDING.

NOT SHOWN ARE ROOF PLANS, REFLECTED CEILING PLANS, LIGHTING PLANS, ELECTRICAL PLANS, AUTOMATIC FIRE SPRINKLER DESIGN, ETC. A SEPARATE SITE SPECIFIC APPLICATION/REVIEW WILL BE REQUIRED.

DUE TO MOMENT FRAME DESIGN WITH NON-BEARING EXTERIOR AND INTERIOR WALLS; FLOOR PLAN DEPICTS FLEXIBLE LOCATIONS OF DOORS, WINDOWS, WINDOW SIZES, INTERIOR PARTITION PLACEMENTS.

THIS FLOOR PLAN SHALL NOT BE CONSTRUCTED AND IS SUBJECT TO SITE SPECIFIC APPLICATION REVIEW FOR, AND NOT LIMITED TO, ANY/ALL OF THE FOLLOWING:

- INTENDED USE OF EACH ROOM OR SPACE(S).
- FLOOR PLAN INTERIOR PARTITION LAYOUT/CONFIGURATION
- LOCATION OF FIRE EXTINGUISHERS. - MAXIMUM TRAVEL DISTANCES. - LOCATIONS OF DOORS AND EGRESS COMPONENTS.
- COMPLIANCE WITH EXIT AND EXIT ACCESS DOORWAYS AND COMMON PATH OF TRAVEL REQUIREMENTS.
- LOCATIONS OF DRAFTSTOPS AND DRAFTSTOP DETAILS.

IF A WINDOW IN THE NON-BEARING WALL IS TO BE PROVIDED IN THE SITE SPECIFIC PROJECT, THEN NEW ENERGY COMPLIANCE REPORTS WILL BE REQUIRED TO BE SUBMITTED WITH THE SITE SPECIFIC PROJECT PRIOR TO RECEIVING APPROVAL BY DSA.

DOOR HARDWARE: PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER PER CBC 1010.29.

STATE FUNDS: BUILDING ENTRANCE DOORS AND DOORS TO INDIVIDUAL ROOMS WITH AN OCCUPANT LOAD OF 50 OR MORE, IN BUILDINGS CONSTRUCTED WITH STATE FUNDS, ON NEW OR EXISTING CAMPUSES, SHALL BE EQUIPPED WITH INTERIOR LOCKING DOOR HARDWARE AND MUST COMPLY WITH CBC 1010.28.2

EGRESS LOCATION: WHERE (2) OR MORE EXITS ARE REQUIRED SUCH EXITS SHALL HAVE ADEQUATE SEPARATION PER CBC 1007.1.

EGRESS ILLUMINATION: WHERE (2) OR MORE EXITS ARE REQUIRED, SUCH EXITS SHALL HAVE INTERIOR AND EXTERIOR LANDINGS ILLUMINATED BY FIXTURES CAPABLE OF AUTOMATIC EMERGENCY POWER OF NOT LESS THAN 90 MINUTES, (INCLUDES ANGLES, UNENCLOSED STAIRWAYS, CORRIDORS, EXTERIOR EGRESS COMPONENTS AT OTHER THAN LEVEL OF DISCHARGE, LABS, SHOPS, AND WINDOWLESS AREAS WITHOUT STUDENT OCCUPANCY) PER 1008.3.

EXIT SIGNS: WHERE REQUIRED, EXITS AND EXIT ACCESS SHALL BE MARKED BY APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL PER CBC 1013.

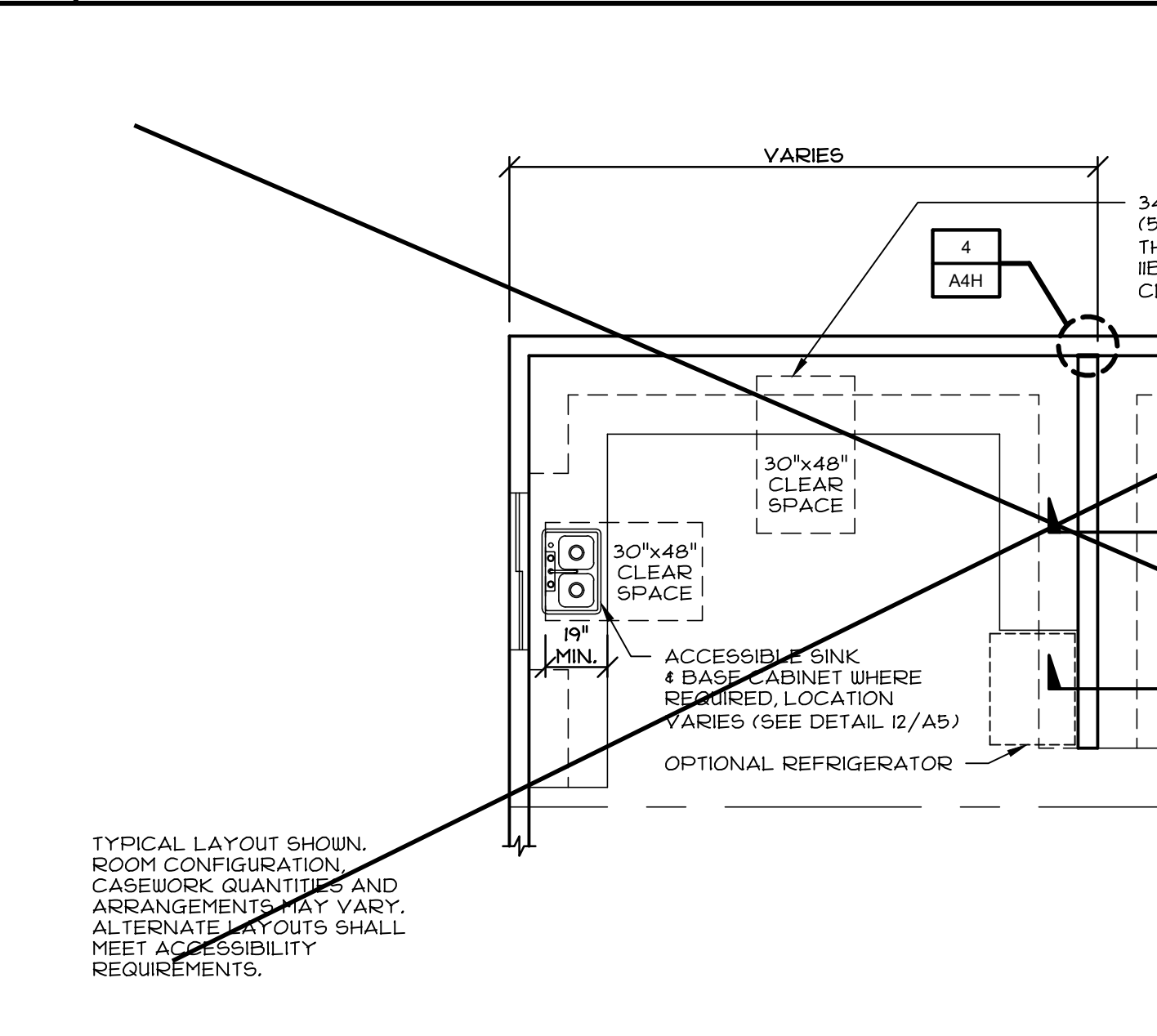
POSTING OF OCCUPANCY LOADS: EVERY ROOM OR SPACE WHICH IS USED FOR ASSEMBLY, CLASSROOM, DINING, DRINKING, OR SIMILAR PURPOSES HAVING AN OCCUPANT LOAD OF 50 OR MORE SHALL HAVE THE OCCUPANT LOAD OF A ROOM OR SPACE POSTED PER CBC 1004.9. (OCCUPANT LOAD SIGNAGE SHALL BE PROVIDED BY SCHOOL DISTRICT / OWNER, NOT BY MODULAR MANUFACTURER).

ALTERNATE FLOOR PLAN SHOWN DOES NOT HAVE AN APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM DESIGN IN THIS DC IF THIS PLAN IS TO BE USED, A SPRINKLER DESIGN SHALL BE PROVIDED FOR DSA REVIEW/ APPROVAL DURING A SEPARATE PROJECT SITE SPECIFIC APPLICATION, ROOF PLAN, REFLECTED CEILING PLAN, LIGHTING PLAN, ELECTRICAL PLANS, ETC. WILL ALSO BE REVIEWED UNDER SEPARATE SITE SPECIFIC APPLICATION.

BUILDING TRANSVERSE DIMENSION	RAIN WATER LEADERS MINIMUM QUANTITIES	
	FRONT OVERHANG	REAR OVERHANG
24'	1	1
36'	1	1
48'	2	2
60'	3	3
72'	3	3
84'	4	4
96'	4	4
108'	5	5
120'	5	5

BUILDING TRANSVERSE DIMENSION	RAIN WATER LEADERS MINIMUM QUANTITIES	
	FRONT OVERHANG	REAR OVERHANG
24'	1	1
36'	1	1
48'	2	2
60'	3	3
72'	3	3
84'	4	4
96'	4	4
108'	5	5
120'	5	5

**2 GENERAL NOTES**

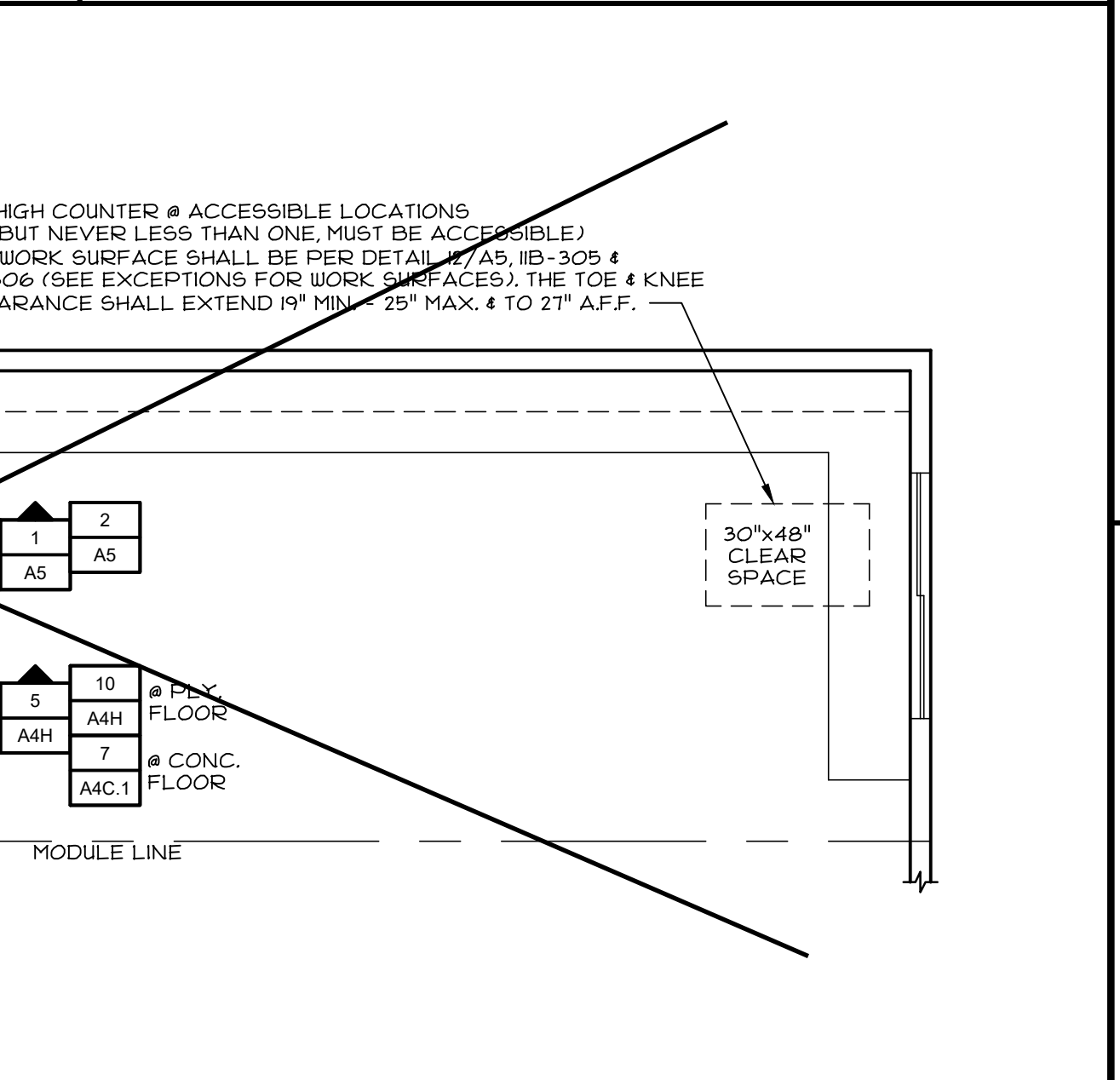


**6 KITCHEN / CABINET OPTION**

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

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Code: 2022 CBC  
A separate project application for construction is required.

**4 DOWNSPOUT QTY. PER BUILDING SIZE**

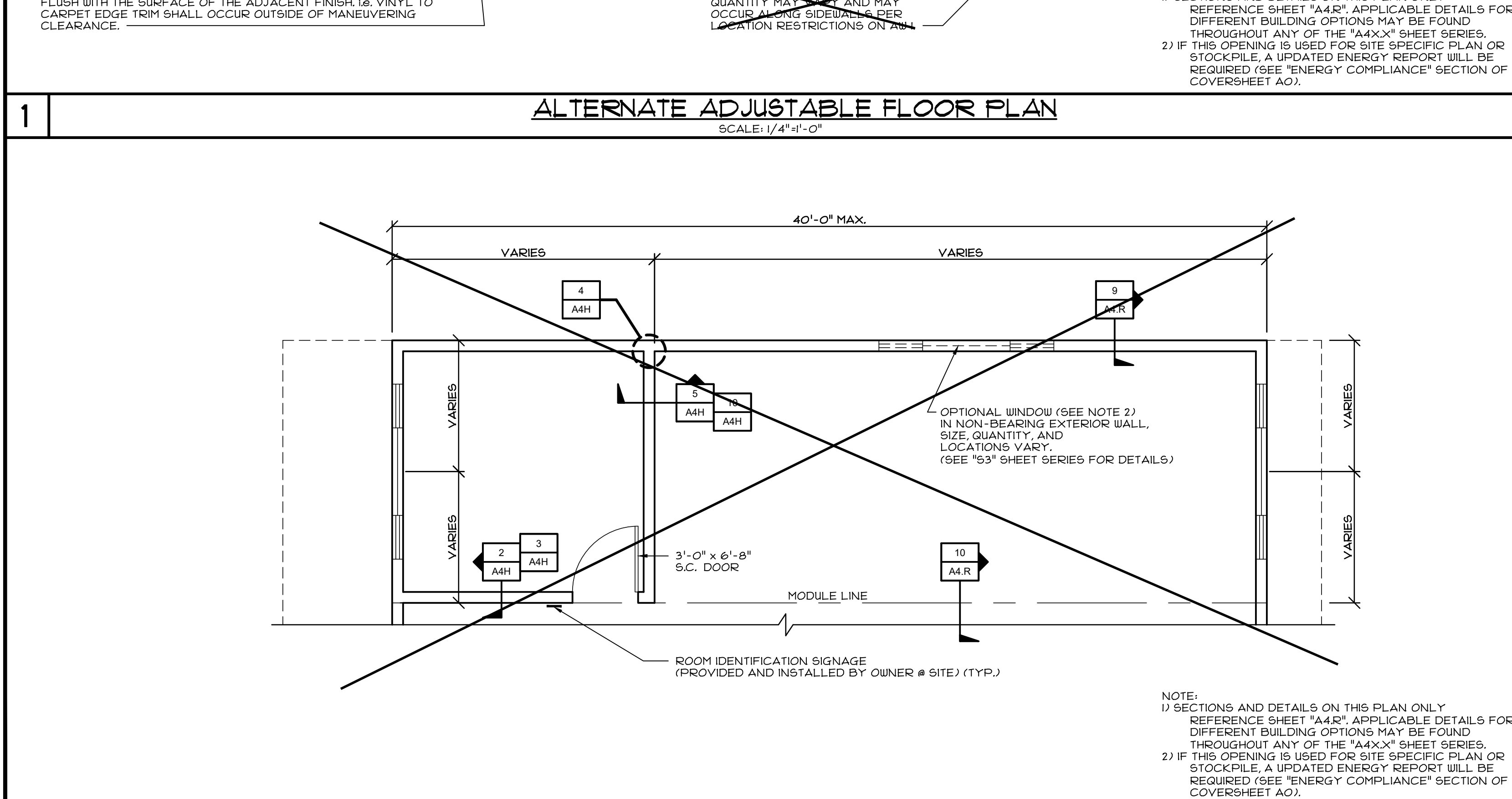


**1 ALTERNATE ADJUSTABLE FLOOR PLAN**

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

CHANGE OF LEVEL SHALL NOT BE PERMITTED WITHIN DOOR MANEUVERING CLEARANCE SHOWN AS DIMENSIONED. (IB-404.3.4.4) ANY CHANGE OF FINISH OCCURRING WITHIN THIS SPACE SHALL BE FLUSH WITH THE SURFACE OF THE ADJACENT FINISH, i.e. VINYL TO CARPET EDGE TRIM SHALL OCCUR OUTSIDE OF MANEUVERING CLEARANCE.

**1 SMALL GROUP CLASSROOM OPTION**



**5 SMALL GROUP CLASSROOM OPTION**

(THIS SHEET NOT USED FOR O.T.C. APPLICATION)

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10/11/2023

REGISTERED PROFESSIONAL ENGINEER  
ARCHITECT  
No. S20300  
STATE OF CALIFORNIA

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DATE: 10/24/2023

**ROBERTS FERRY ES**  
at  
**ROBERTS FERRY UESD**

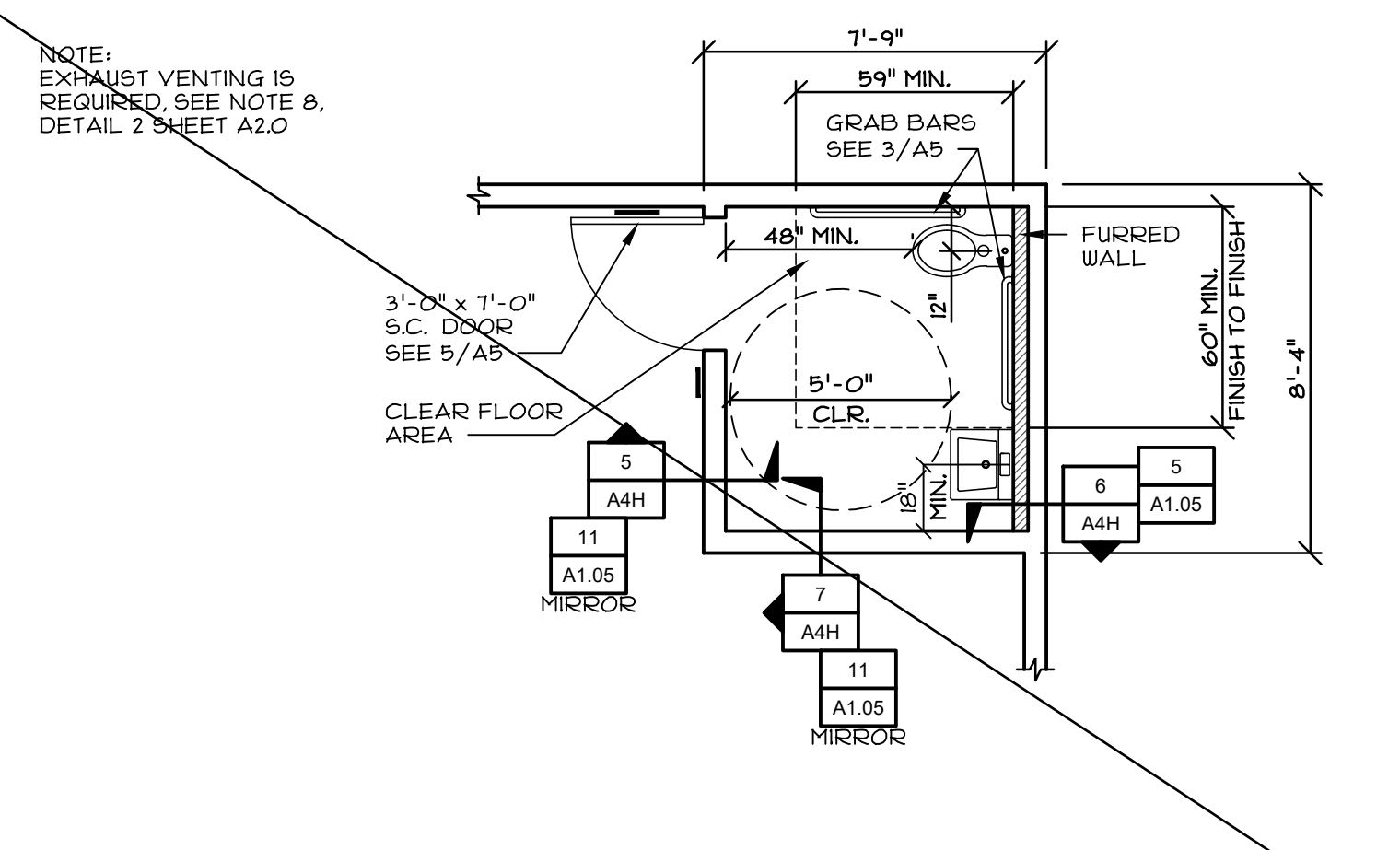
**FLOOR PLAN OPTIONS**

REV / DATE: BY:

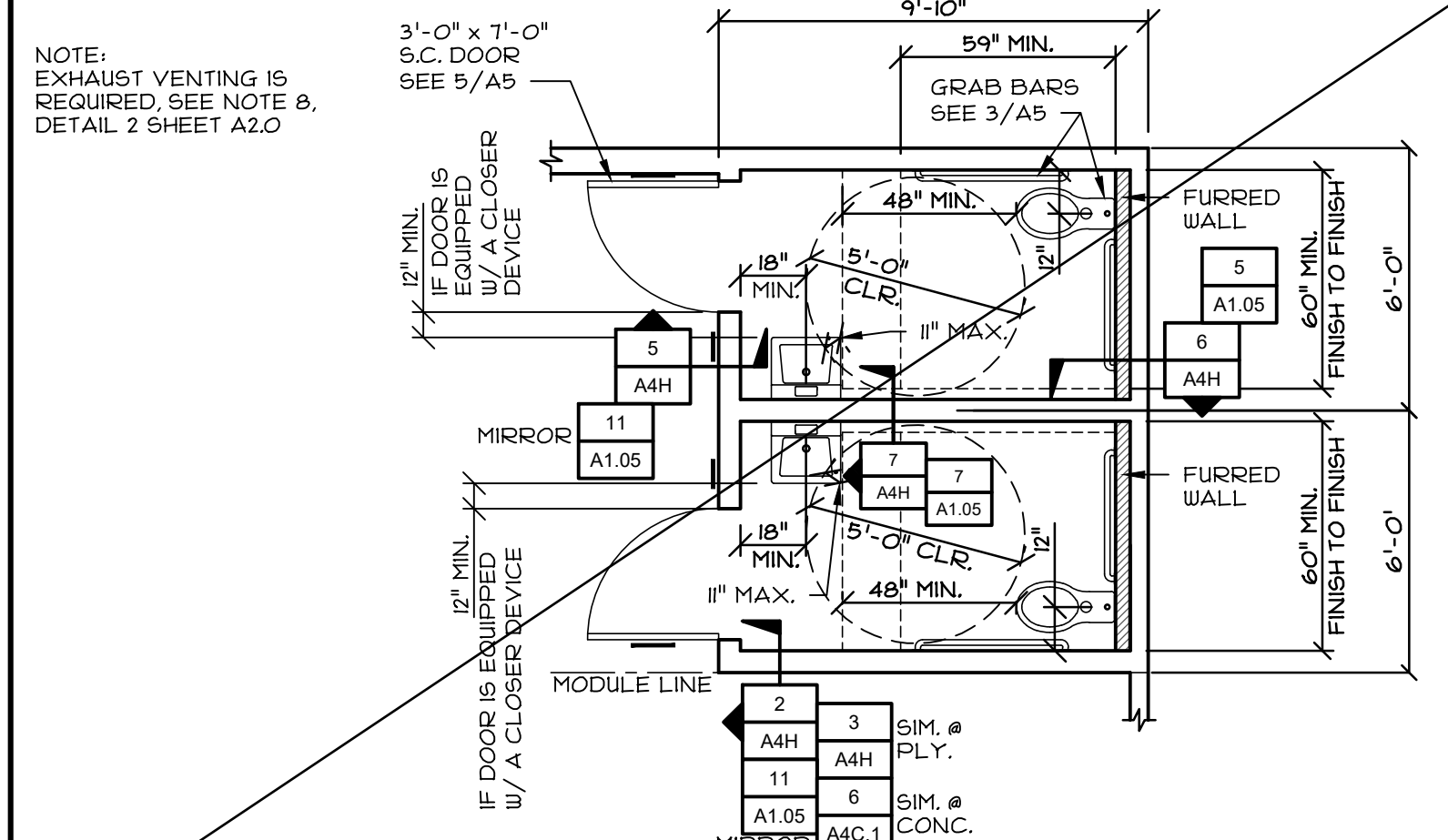
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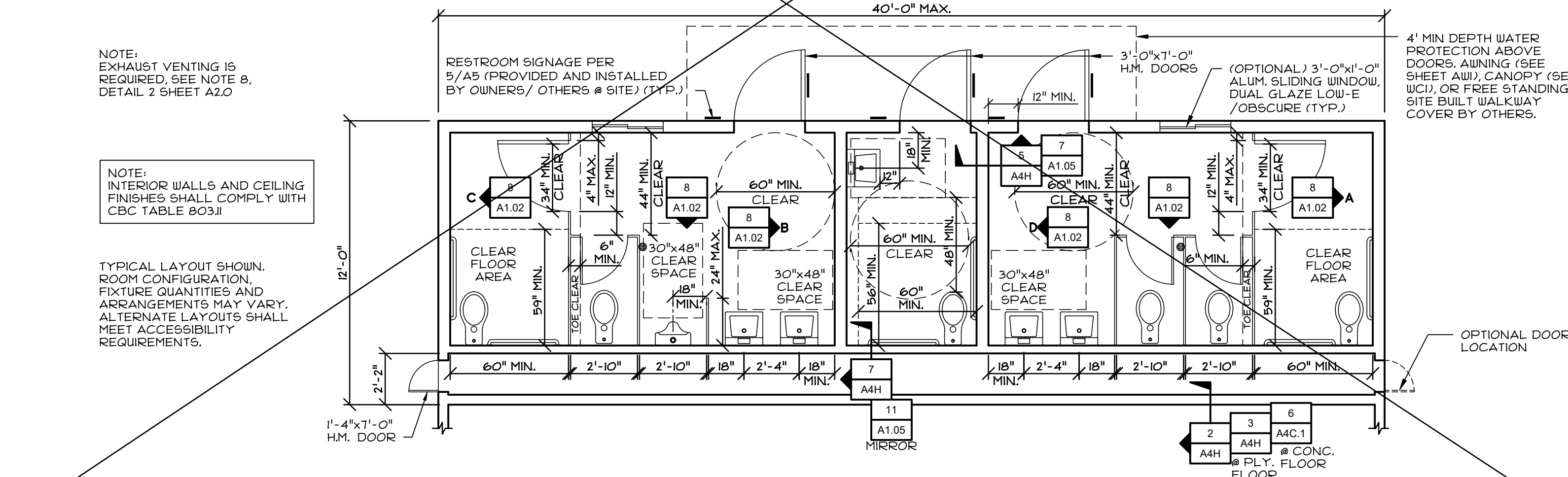




**2 SINGLE TOILET OPTION**  
SCALE: 1/4"=1'-0"



**3 DOUBLE TOILET OPTION**  
SCALE: 1/4"=1'-0"



**4 MULTIPLE TOILET OPTION**  
SCALE: 1/4"=1'-0"

**NOTES:**

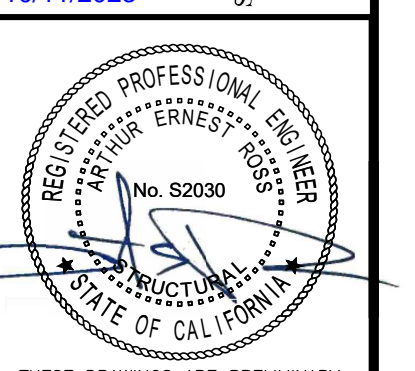
- FOR MATERIAL SPECIFICATIONS & NOTES, SEE SHEET A10.
- ALL DIMENSIONS SHOWN ON THIS SHEET ARE FOR INTERIOR SPACES AND ARE TO MATERIAL FINISHES.
- ALTERNATE FLOOR PLANS SHOWN DO NOT HAVE AN APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM DESIGN IN THIS PC. IF THIS PLAN IS TO BE USED, AND A FIRE SPRINKLER SYSTEM IS REQUIRED, A SPRINKLER DESIGN SHALL BE PROVIDED FOR DSA REVIEW/APPROVAL DURING A SEPARATE PROJECT SITE SPECIFIC APPLICATION. ROOF PLAN, REFLECTED CEILING PLAN, LIGHTING & ELECTRICAL PLANS, PLUMBING PLANS, ETC. WILL ALSO BE REVIEWED UNDER SEPARATE SITE SPECIFIC APPLICATION.

**1 SHEET NOTES**

**5**

**7**

**11**



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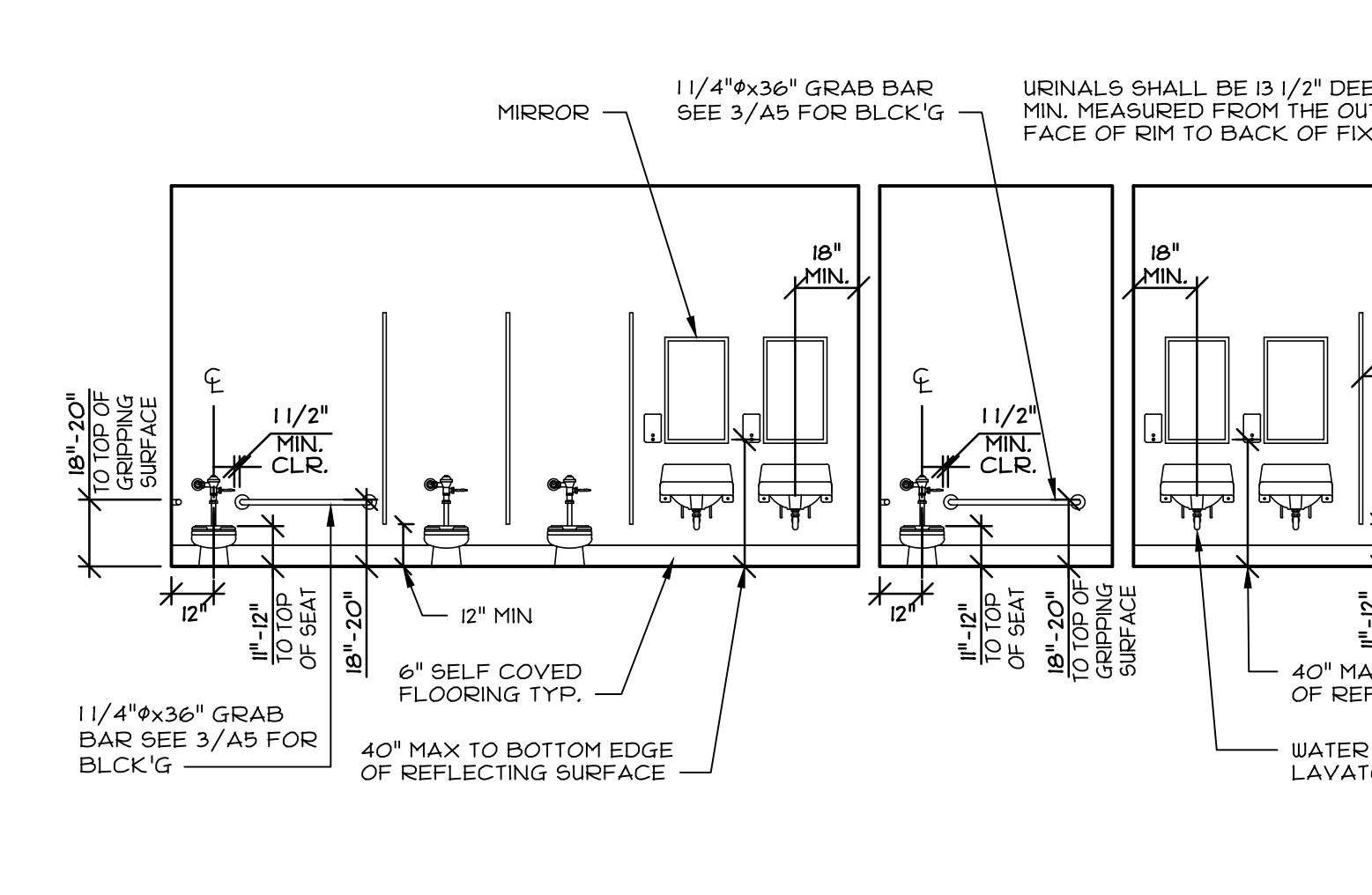
**9**

CBC TABLE 11B-604.9  
SUGGESTED DIMENSIONS FOR CHILDREN'S USE

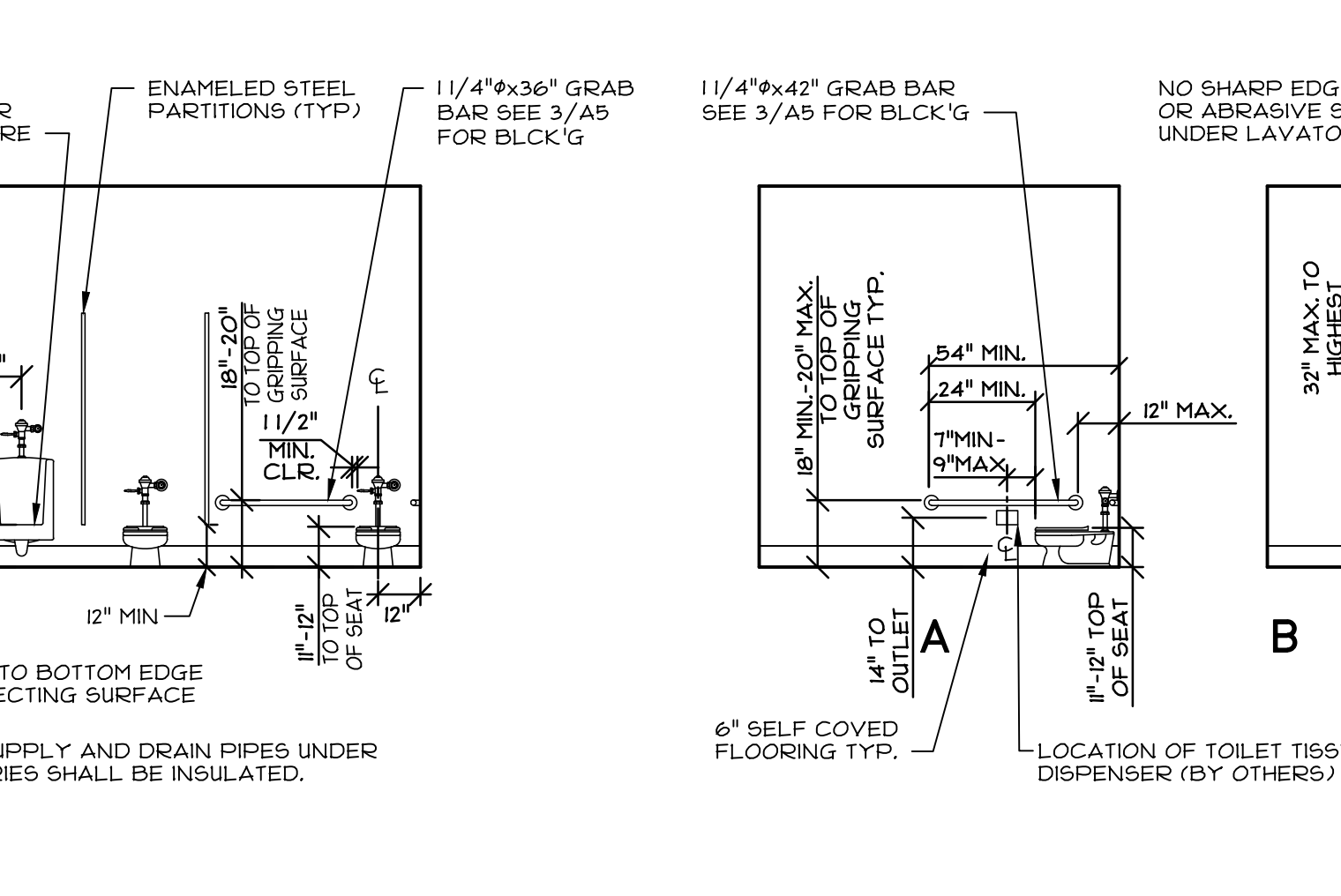
	AGES 3 AND 4
WATER CLOSET CENTERLINE	12"
TOILET SEAT HEIGHT	11" TO 12"
TOP OF GRAB BAR HEIGHT TO TOP OF BAR	18" TO 20"
DISPENSER HEIGHT TO OUTLET	14"

11B-604 GRAB BARS  
11B-604.3 SPACING: THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2" (38 MM). THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1-1/2" (38 MM) MIN. THE SPACE BETWEEN THE GRAB BAR & PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES (305 MM) MINIMUM.

**10 TYPICAL FIXTURE MOUNTING HEIGHTS**

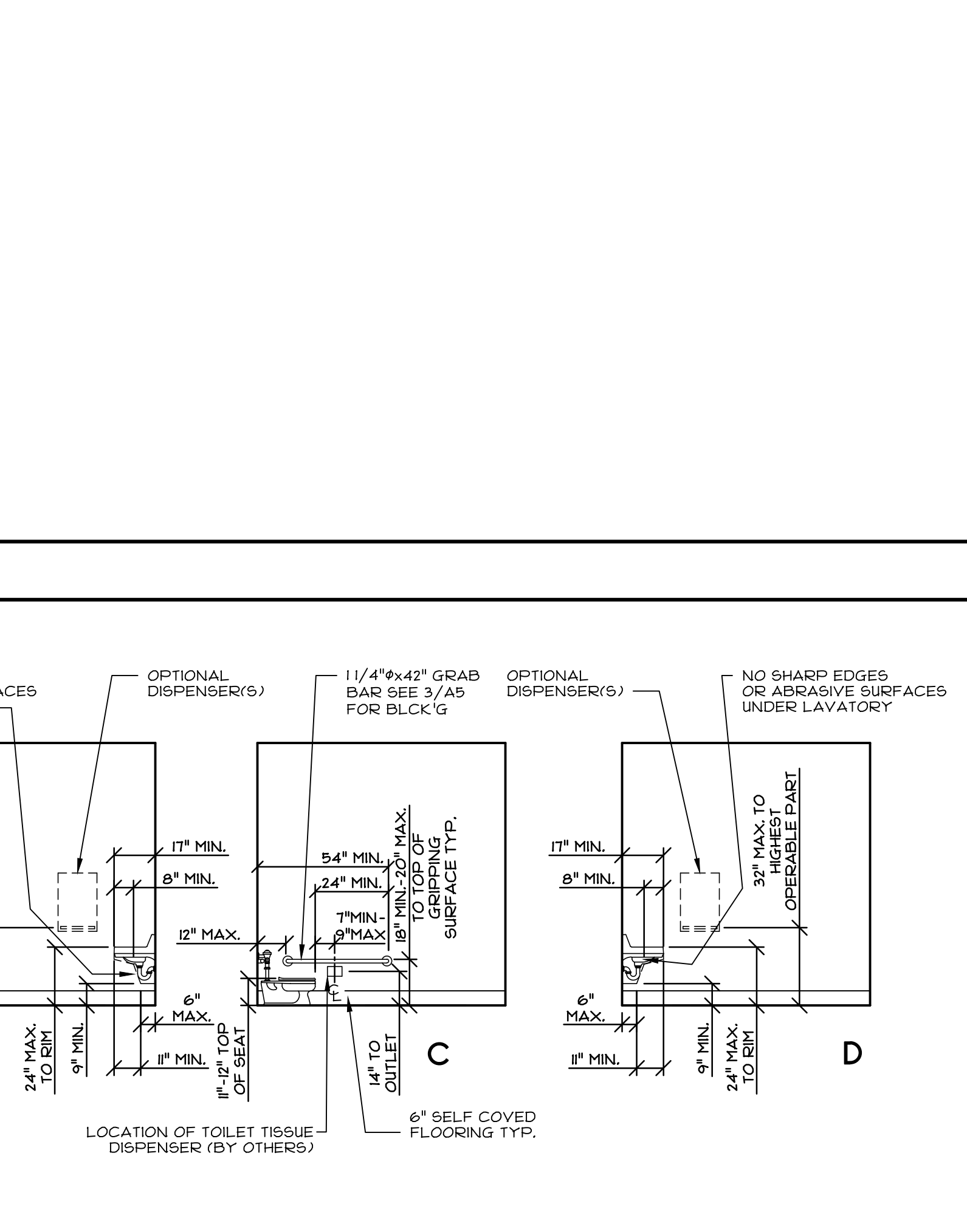


**6**



**8**

**TYPICAL TOILET ROOM ELEVATIONS**  
SCALE: 1/4"=1'-0"



**TYPICAL TOILET ROOM ELEVATIONS**  
SCALE: 1/4"=1'-0"

**7**

**11**

PRE-CHECK (PC) DOCUMENT  
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A separate project application for construction is required.

TOILET ROOMS-  
AGES 3-4

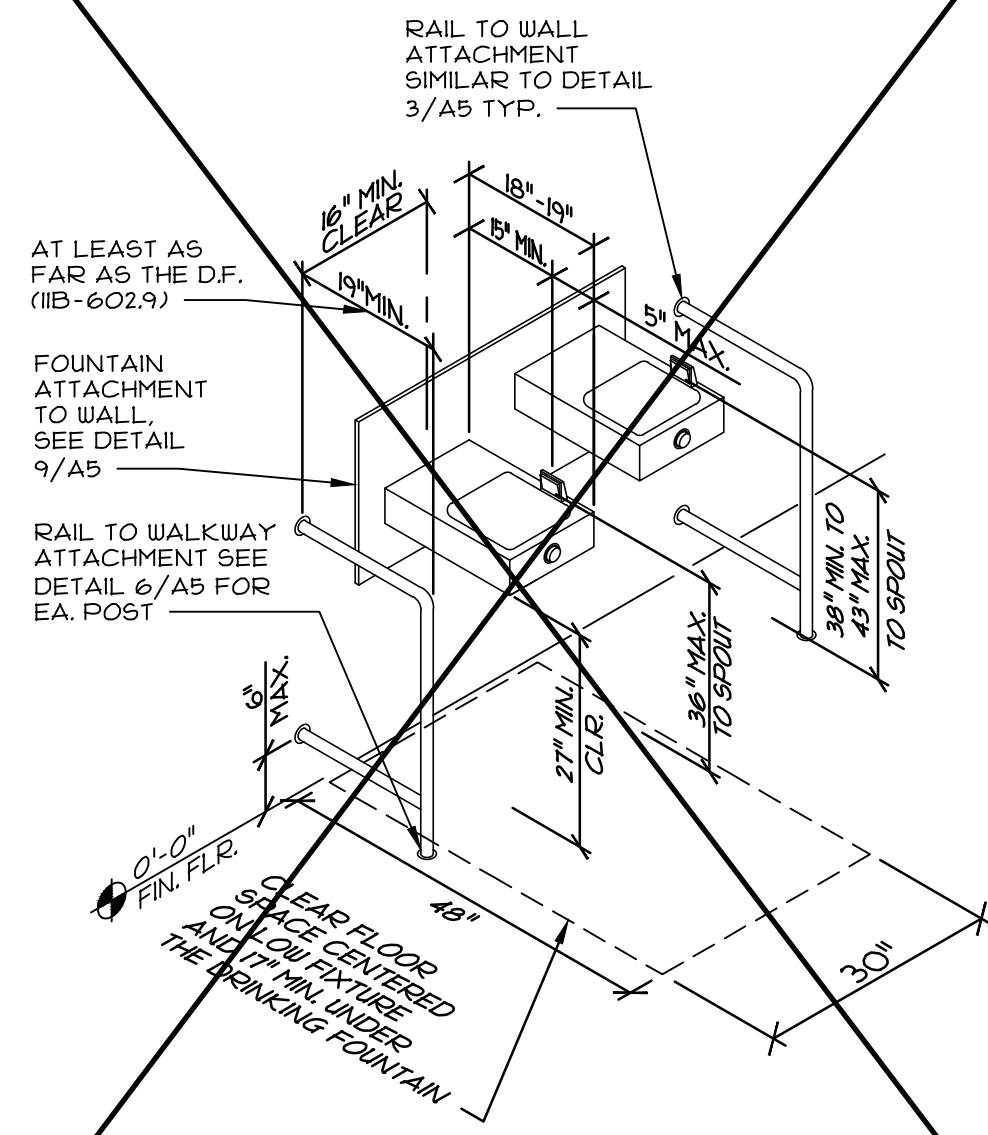
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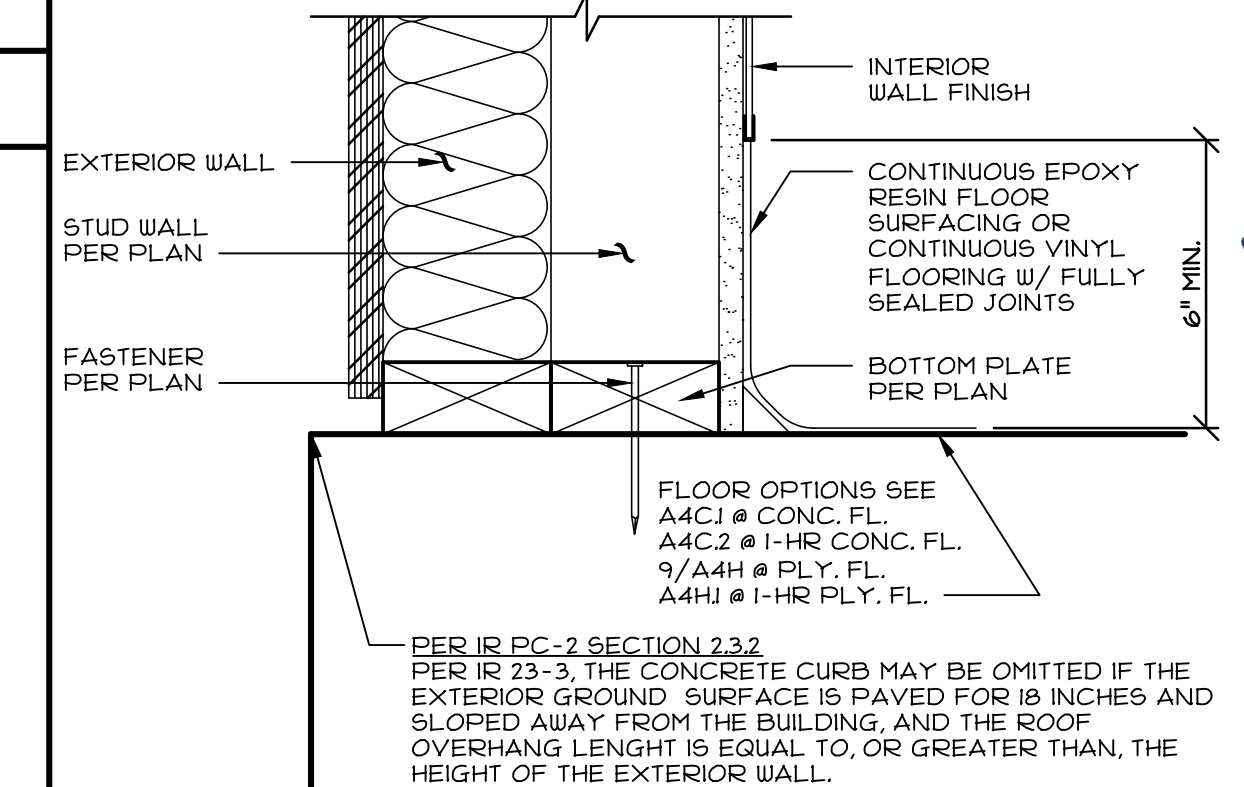




NOTE: DRINKING FOUNTAIN RAILS SHALL BE PROVIDED AND INSTALLED BY OTHERS ON-SITE. RAILS SHALL PROJECT HORIZONTALLY AT LEAST AS FAR AS THE DRINKING FOUNTAIN.

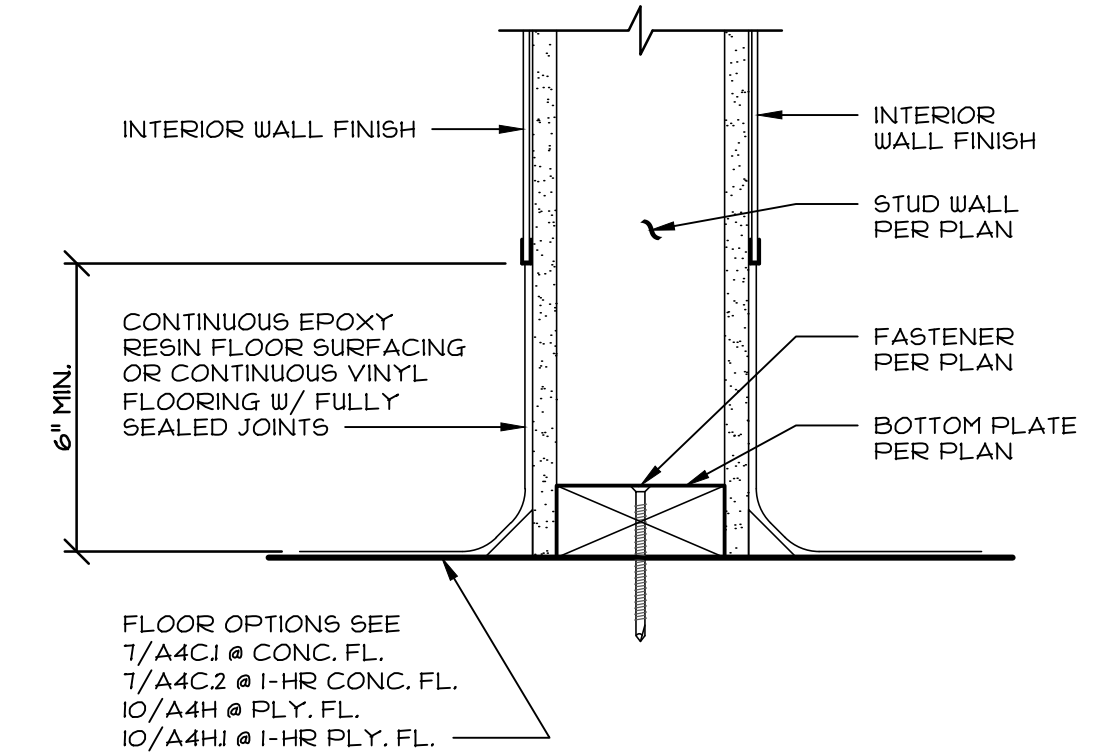
**9 DRINKING FOUNTAIN WING WALLS**

SCALE: 1/2" = 1'-0"



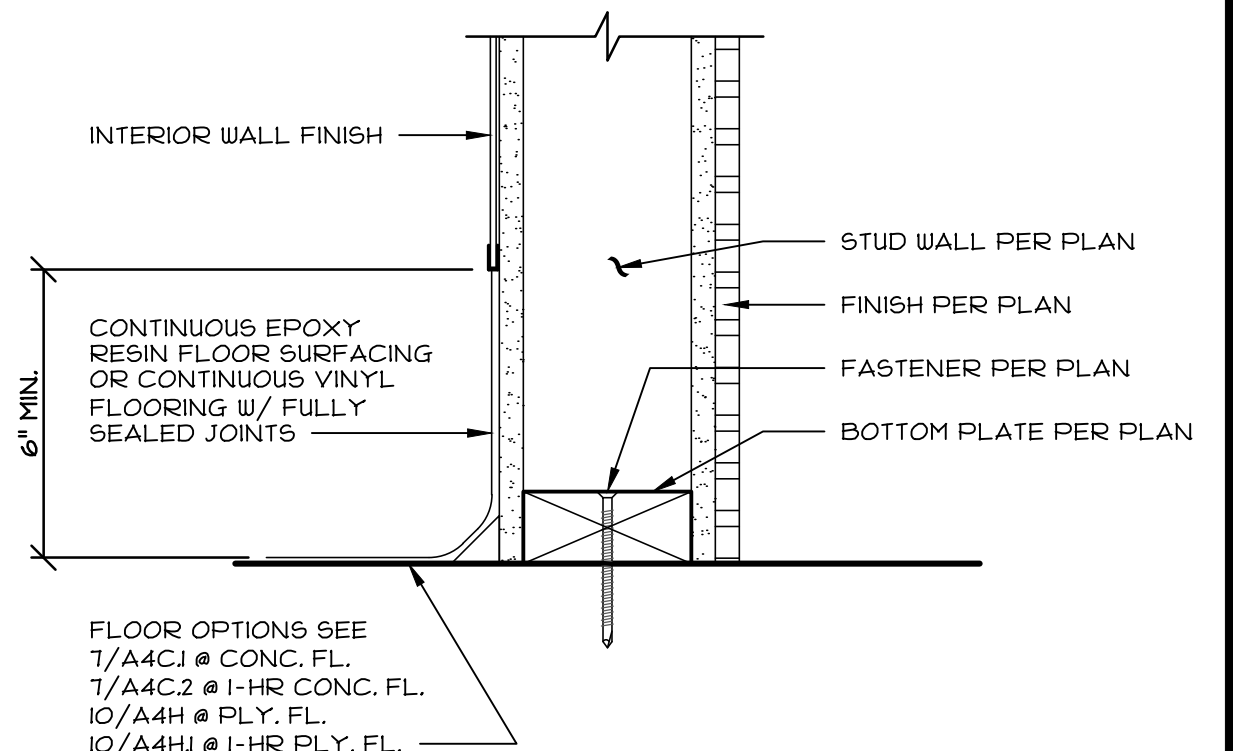
**5 RESTRM. BASE @ EXT. FURRED WALL**

SCALE: 3/4" = 1'-0"



**7 TYP. 2-SIDE RESTROOM BASE**

SCALE: 3/4" = 1'-0"



**11 TYP. 1-SIDE RESTROOM BASE**

SCALE: 3/4" = 1'-0"

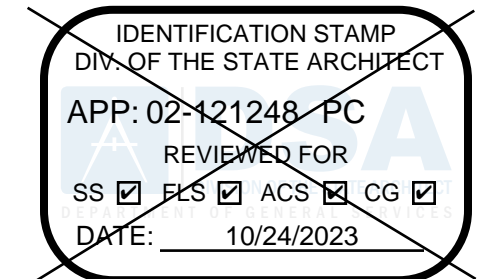
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at  
ROBERTS FERRY UESD

TOILET ROOM WALL BASE &  
MISC. DETAILS

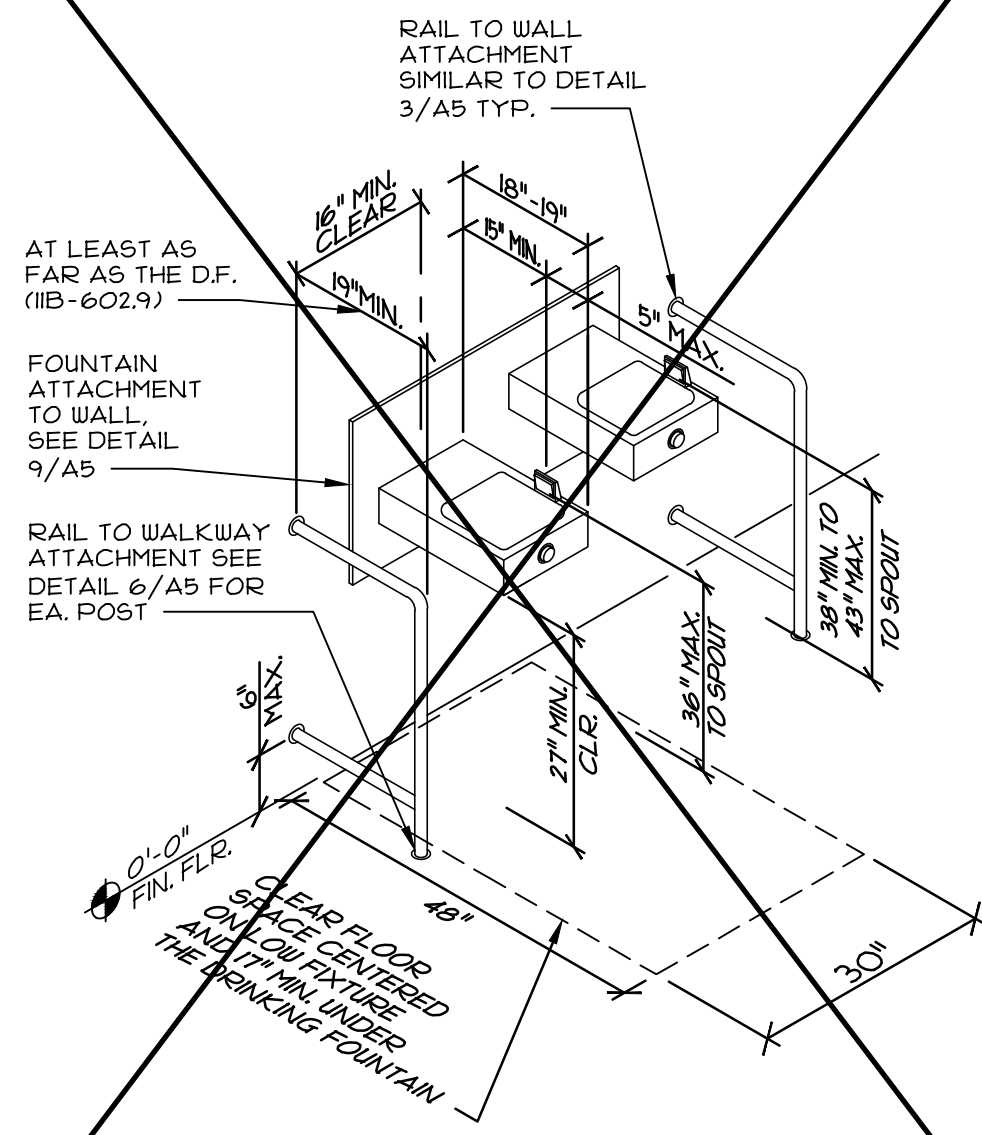
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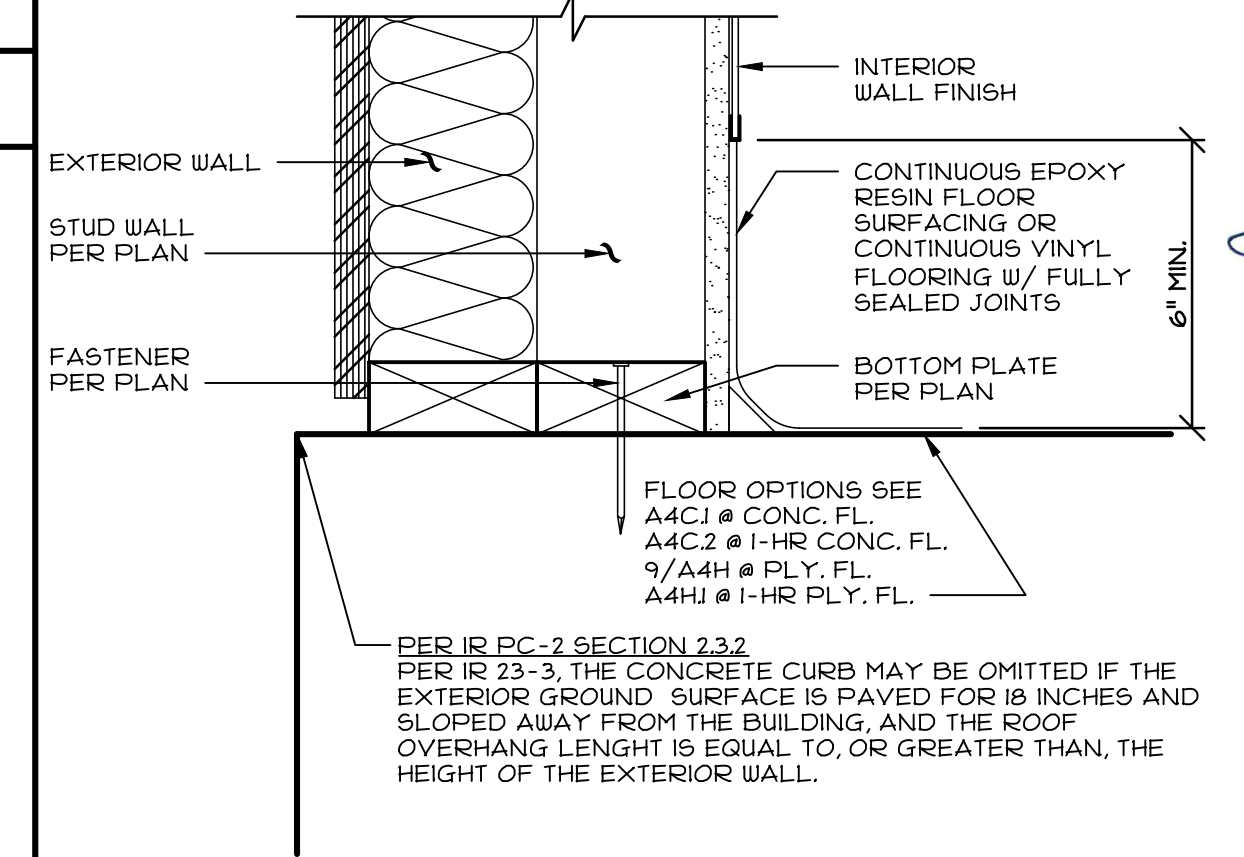
24x40" TO 120x40" P.C.



NOTE: DRINKING FOUNTAIN RAILS SHALL BE PROVIDED AND INSTALLED BY OTHERS ON-SITE. RAILS SHALL PROJECT HORIZONTALLY AT LEAST AS FAR AS THE DRINKING FOUNTAIN.

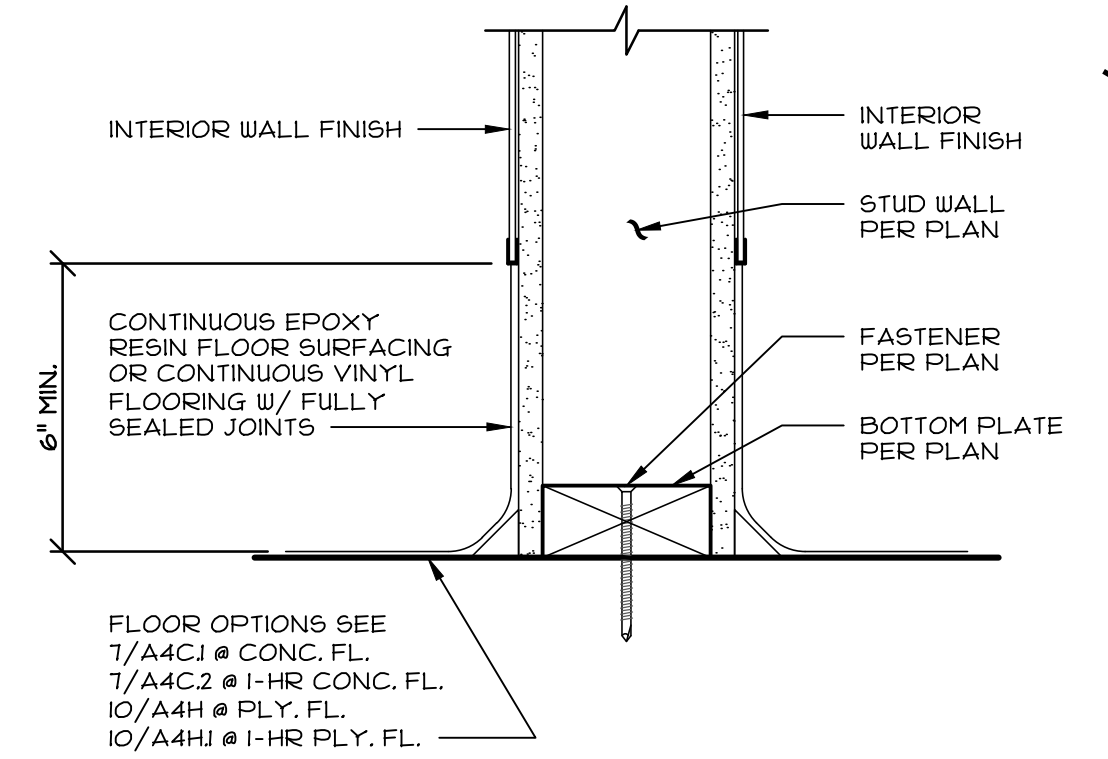
**9 DRINKING FOUNTAIN WING WALLS**

SCALE: 1/2" = 1'-0"



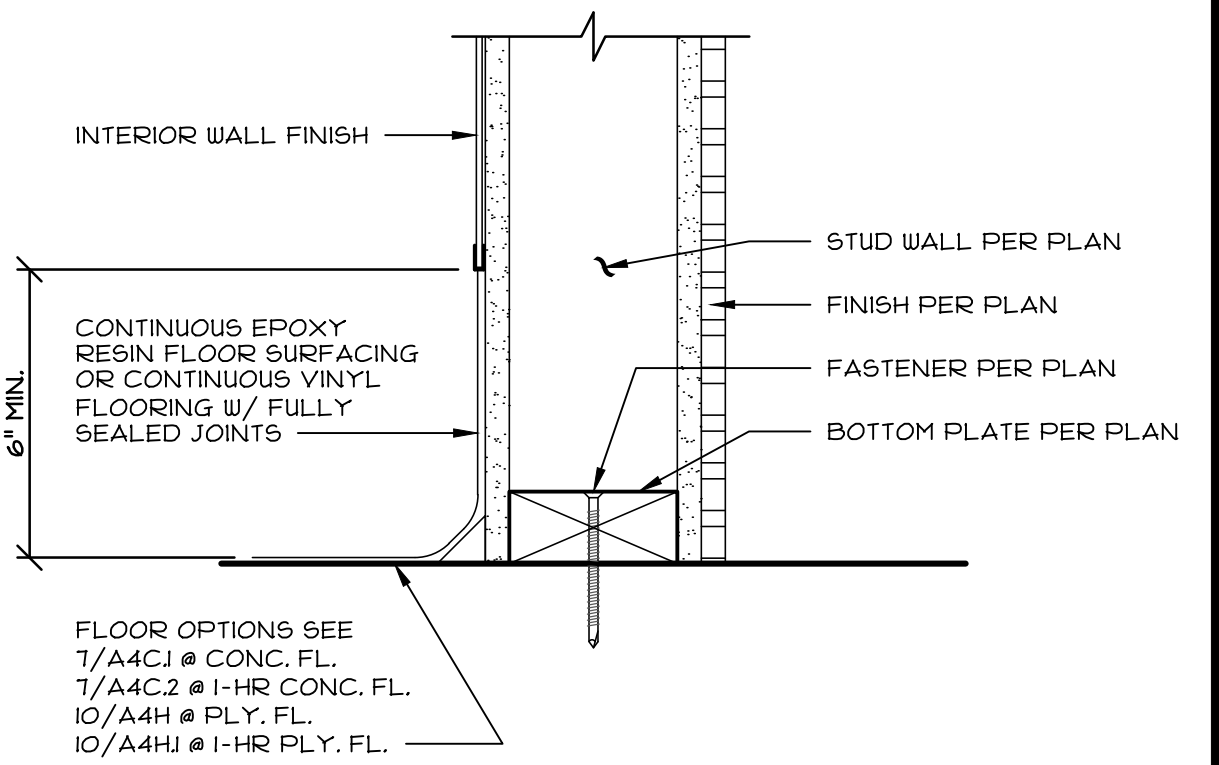
**5 RESTRM. BASE @ EXT. FURRED WALL**

SCALE: 3/4" = 1'-0"



**7 TYP. 2-SIDE RESTROOM BASE**

SCALE: 3/4" = 1'-0"



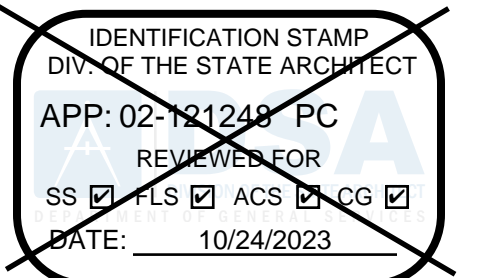
**11 TYP. 1-SIDE RESTROOM BASE**

SCALE: 3/4" = 1'-0"

PRE-CHECK (PC) DOCUMENT  
Code: 2022 CBC  
A separate project application for construction is required.



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.



ROBERTS FERRY ES  
at  
ROBERTS FERRY UESD  
TOILET ROOM WALL BASE &  
MISC. DETAILS

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

A1.05

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REBID - April 14, 2024

24x40" TO 120x40" P.C.

**FINISHES:**

- CARPETS -**  
SHALL BE DIRECT GLUE DOWN TYPE WITH A DENSITY OF 4600 MIN. PILE YARN, BRANDED NYLON, INSTALLED WITH MINIMAL CROSS SEAMS.  
CARPET SHALL COMPLY WITH 11B-302.2 AND SHALL HAVE LEVEL LOOP, TEXTURED LOOP, LEVEL CUT/UNCUT PILE TEXTURE. (NOTE ANY OF THE ABOVE TYPE OFFERED)  
NOTE: MAXIMUM PILE HEIGHT 1/2", TRIM ON ENTIRE LENGTH OF EXPOSED EDGE WHICH COMPLES WITH 11B-303.  
COLOR TO BE SELECTED BY OWNER.  
CARPET SYSTEMS SHALL COMPLY WITH 2022 CAL GREEN BUILDING STANDARDS CODE, SEC 5.504.4.4  
CARPET CUSHION SHALL COMPLY WITH 2022 CAL GREEN BUILDING STANDARDS CODE, SEC 5.504.4.4.1  
CARPET ADHESIVES SHALL COMPLY WITH 2022 CAL GREEN BUILDING STANDARDS CODE, SEC 5.504.4.4.2  
FLOOR FINISH COVERING SHALL OF NOT LESS THAN CLASS II, CBC 804.2

- RESILIENT BASE COVE -**  
BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH, MOULDED TOP SET COVE. SOLID COLORS AS MANUFACTURED BY "BURKE RUBBER CO." OR EQUAL.  
ADHESIVE SHALL COMPLY WITH 2022 CAL GREEN BUILDING STANDARDS CODE, SEC 5.504.4.1  
BASE COVE SHALL OF NOT LESS THAN CLASS II, CBC 804.2 & 806.8

- COMMERCIAL SHEET VINYL / RESILIENT FLOORING -**  
ARMSTRONG CORLON OR EQUAL.  
FLOORINGS SHALL BE SLIP RESISTANT, (0.5 MIN. COEFFICIENT OF FRICTION PER ASTM D-2047)  
80% OF NON-ABSORBENT FLOORING SHALL COMPLY WITH 2022 CAL GREEN BUILDING STANDARDS CODE, SECTION 5.504.4.6  
APPLICATION AND MAINTENANCE OF POLISHED-COATED FLOOR SURFACES IS BY OWNER.

- 1/2" VINYL WRAPPED TACKBOARD OVER 1/2" GYPSUM WALL BOARD.**  
TACKBOARD FLAME SPREAD 65, SMOKE DENSITY 135.

- FIBERGLASS REINFORCED POLYETHYLENE (FRP) PANELS OVER 1/2" GYPSUM WALL BOARD (OVER WATER RESISTANT GWB AT PLUMBING AND WET WALLS ONLY)**  
FRP FLAME SPREAD 25, SMOKE DENSITY 180.

- ADHESIVES SHALL BE WATER BASE, SOLVENT BASE NOT ACCEPTABLE. FURNISH AND APPLY PER MANUFACTURER'S WRITTEN INSTRUCTIONS.**  
ADHESIVES SHALL COMPLY WITH 2022 CGBCS, SECTION 5.504.4.1

- SEALANTS -**  
ROOF & MODULE LINE - POLYURETHANE SIDING & TRIM - ACRYLIC LATEX  
SEALANTS SHALL COMPLY WITH 2022 CGBCS, SECTION 5.504.4.1

- PAINT -**  
EXTERIOR WOOD  
PRIMER.....ACRYLIC UNDERCOAT  
FINISH .....ACRYLIC LATEX  
  
ALL STRUCTURAL AND NON-GALVANIZED LIGHT GAUGE STEEL (EXPOSED AND NON-EXPOSED)  
PRIMER.....RED OXIDE ALKYL RUST INHIBITIVE COATING  
FINISH .....ACRYLIC LATEX

- EXTERIOR SIDING -**  
3/8" GROOVED MEDIUM DENSITY OVERLAY (M.D.O.), PLYWOOD, LAP SIDING, OR STUCCO PATTERN FACED EXTERIOR HARDBOARD SIDING, (MINIMUM NET THICKNESS 3/8").  
  
COMPOSITE WOOD PRODUCTS SHALL COMPLY WITH 2022 CAL GREEN BUILDING STANDARDS CODE, SECTION 5.504.4.5

- JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED TO LIMIT INFILTRATION AND EXFILTRATION.**  
SEALANT PAINTED TO MATCH FINISHES.

- ENVIRONMENTAL QUALITY:**  
ALL ADHESIVES, SEALANTS, CAULKS, PAINTS, COATINGS, CARPET SYSTEMS, CARPET CUSHIONS, COMPOSITE WOOD PRODUCTS, AND RESILIENT FLOORING SYSTEMS SHALL COMPLY WITH 2022 CAL GREEN BUILDING STANDARDS CODE, REFERENCE TABLES 5.504.4.1, 5.504.4.2, 5.504.4.3, 5.504.4.5, AND 5.504.4.6.

**DOORS:**

- HOLLOW METAL DOORS AND FRAMES. SIZES NOTED ON PLAN. 1 3/4" THICK 18 GA. FULL FLUSH DOOR IN 18 GA. METAL FRAME.  
EXIT DOOR SHALL BE OPENABLE FROM THE INTERIOR WITHOUT A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
- CLOSERS FOR INTERIOR AND EXTERIOR DOORS SHALL BE SET FOR A MAXIMUM OPENING PRESSURE OF 5 LBS. MAX. CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
- DEADBOLTS NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT USING LEVER HANDLE.
- DOOR HANDLES & PULLS SHALL BE PLACED ON BOTH SIDES; LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. SHALL BE 5 LBS. MAX. TO ACTIVATE OPERABLE PARTS, AND SHALL BE 34" MINIMUM AND 44 INCHES MAXIMUM ABOVE FINISHED FLOOR.
- DOOR SWINGS CAN BE RIGHT OR LEFT HAND HINGE.
- HARDWARE SHALL BE CENTERED BETWEEN 34" AND 44" ABOVE FINISHED FLOOR. - ALL DOORS TO CLASSROOMS, AND ANY ROOM WITH AN OCCUPANT LOAD OF 5 OR MORE PERSONS, SHALL BE EQUIPPED WITH "A8211" COMPLIANT HARDWARE.  
COMPLIANT WITH CBC 1010.2.8.2
- CLASSROOM EXTERIOR DOOR HARDWARE:  
LOCKSET (LEVER MODEL): SCHLAGE N050PD RHO (OR EQUAL)  
(TYP. UNLESS OTHERWISE NOTED)  
LOCKSET (PANIC DEVICE): VON DUPRIN CD99NL (OR EQUAL)  
(ONLY WHERE SPECIFIED ON PLANS)

- EXTERIOR HINGES:** HAGER BB1279 N.R.P. 4-1/2" x 4-1/2" OR EQUAL  
**INTERIOR HINGES:** HAGER 1279 N.R.P. 4-1/2" x 4-1/2" OR EQUAL  
**CLOSER:** NORTON 8501BF OR EQUAL  
**THRESHOLD:** PEMKO 271A OR EQUAL  
**DOOR BOTTOM:** PEMKO 216AV OR EQUAL  
**WEATHERSTRIP:** PEMKO 259AV OR EQUAL

**Door hardware:**  
Panic hardware is required to be installed when the configuration of any room provides an occupant load of 50 or greater per CBC 1010.2.9.

**State funds:**  
Building entrance doors and doors to individual rooms with an occupant load of 5 or more, in buildings constructed with state funds, on new or existing campuses, shall be equipped with interior locking door hardware and must comply with CBC 1010.2.8.2.

**Egress location:**  
Where (2) or more exits are required such exits shall have adequate separation per CBC 1007.1.1.

**Egress illumination:**  
Where (2) or more exits are required, such exits shall have interior and exterior landings illuminated by fixtures capable of automatic emergency power of not less than 90 minutes, (includes aisles, unenclosed stairways, corridors, exterior egress components at other than level of discharge, labs, shops, and windowless areas without student occupancy) per 1008.3.

**Exit Signs:**  
Where required, exits and exit access shall be marked by approved exit sign readily visible from any direction of egress travel per CBC 1013.

**Posting Of Occupancy Loads:**  
Every room or space which is used for assembly, classroom, dining, drinking, or similar purposes having an occupant load of 50 or more shall have the occupant load of a room or space posted per CBC 1004.9.  
(Occupant load signage shall be provided by school district / owner, not by modular manufacturer).

- RESTROOM EXTERIOR DOOR HARDWARE:**  
LOCKSET: SCHLAGE N070PD RHO OR EQUAL  
HINGES: HAGER BB1279 N.R.P. 4-1/2" x 4-1/2" OR EQUAL  
CLOSER: NORTON 8501BF OR EQUAL  
THRESHOLD: PEMKO 271A OR EQUAL  
DOOR BOTTOM: PEMKO 216AV OR EQUAL  
WEATHERSTRIP: PEMKO 306A OR EQUAL

**WINDOWS & SKYLIGHTS:**

FENESTRATION SPECIFICATION												
FENEST. ASSEMBLY NAME	OPERABLE	WIDTH x HEIGHT	FRAME MATERIAL	MAXIMUM U-FACTOR	REQUIRED SHGC	MINIMUM VT	NFRC RATED	NFRC DIRECTORY REF No.	LOW-E	QTY. OF PANEES	GLASS SPEC.	TEMPERED
LOW E INTERNATIONAL	PER PLAN	PER PLAN	ALUM.	0.52	0.34	0.99	YES	INT-A-73-002 11-000 IT	YES	2	CLR.	YES
<del>SOLARIDE 300 06 SINGLE DOME NATURAL EFFECTS LENS WITH THERMAL INSULATION PANE</del>	<del>NO</del>	<del>77</del>	<del>PLASTIC</del>	<del>0.8</del>	<del>0.33</del>	<del>0.28</del>	<del>YES</del>	<del>STU-L-3-000M-00001</del>	<del>N/A</del>	<del>N/A</del>	<del>CLR.</del>	<del>YES</del>

- NOTE:**  
1) TEMPORARY NFRC LABELS SHALL STAY ON FENESTRATION UNTIL VERIFIED BY THE IN-PLANT INSPECTOR TO MATCH THE FENESTRATION SPECIFICATION TABLE.  
2) ANY FENESTRATION SUBSTITUTIONS MADE TO THE APPROVED PC MUST BE EQUAL OR BETTER THAN THE FENESTRATION ASSEMBLIES SHOWN IN THIS SCHEDULE.

- 11B-228.1 GENERAL,** WHERE GLAZED OPENINGS ARE PROVIDED IN ACCESSIBLE ROOMS OR SPACES FOR OPERATION BY ONE HAND, AT LEAST ONE OPENING SHALL COMPLY WITH SECTION 11B-309. EACH GLAZED OPENING REQUIRED BY AN ADMINISTRATIVE AUTHORITY TO BE OPERABLE SHALL COMPLY WITH SECTION 11B-309.

**11B-309 OPERABLE PARTS**

**11B-309.1 GENERAL,** OPERABLE PARTS SHALL COMPLY WITH SECTION 11B-309.

**11B-309.2 CLEAR FLOOR SPACE,** A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH SECTION 11B-305. SHALL BE PROVIDED.

**11B-309.3 HEIGHT,** OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE REACH RANGES SPECIFIED IN SECTION 11B-308.

**11B-309.4 OPERATION,** OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2 N) MAXIMUM.

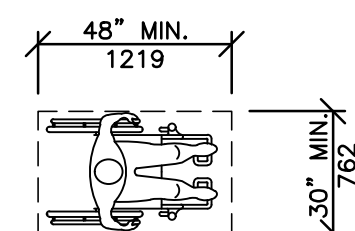
**11B-305 CLEAR FLOOR OR GROUND SPACE**

**11B-305.1 GENERAL,** CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH SECTION 11B-305.

**11B-305.2 CLEAR FLOOR SPACE,** FLOOR OR GROUND SURFACES OF CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH SECTION 11B-302. CHANGES IN LEVEL ARE NOT PERMITTED.

**EXCEPTION,** SLOPED NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

**11B-305.3 SIZE,** THE CLEAR FLOOR OR GROUND SPACE SHALL BE 30 INCHES (762 mm) MINIMUM BY 48 INCHES (1219 mm) MINIMUM.



**FIGURE 11B-305.3 CLEAR FLOOR OR GROUND SPACE**

**11B-305.4 KNEE AND TOE CLEARANCE,** UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 11B-306.

**11B-305.5 POSITION,** UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT.

**11B-308.3 SIDE REACH.**

**11B-308.3.1 UNOBSTRUCTED,** WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES (1219 mm) MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES (381 mm) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

**PLUMBING:**

- PLUMBING FIXTURE SCHEDULE:**

- ~~**ADULT USE - WATER CLOSET (WALL MOUNT):**  
KOHLER "KINGSTONE" K-4602 OR EQUAL  
W/ SLOAN ROYAL 111-1.28 FLUSH VALVE (1.28 G.P.F.) OR EQ.~~
- ~~**ADULT USE - WATER CLOSET (FLOOR MOUNT):**  
KOHLER "HIGHCLIFF ULTRA" (1.28 G.P.F.) K-96058-SSL OR EQUAL  
W/ SLOAN ROYAL 111-1.28 FLUSH VALVE (1.28 G.P.F.) OR EQ.~~
- ~~**CHILD 3-4.2 - WATER CLOSET (FLOOR MOUNT):**  
KOHLER "WELL COME" K-96053 OR EQUAL  
W/ SLOAN ROYAL 111-1.28 FLUSH VALVE (1.28 G.P.F.) OR EQ.~~
- ~~**CHILD 3-4.3 - WATER CLOSET (FLOOR MOUNT):**  
KOHLER "JUVENILE" K-96059 OR EQUAL  
W/ SLOAN ROYAL 111-1.28 FLUSH VALVE (1.28 G.P.F.) OR EQ.~~
- CHILD 3-4 - WATER CLOSET (FLOOR MOUNT):**  
KOHLER "PRIMARY" (1.28 G.P.F.) K-96064 OR EQUAL  
W/ SLOAN ROYAL 111-1.28 FLUSH VALVE (1.28 G.P.F.) OR EQ.
- SEAT:** BEMIS 1955-SSC (O.F.L.C.) OR EQUAL  
BEMIS B8965C OR EQUAL AT CHILD 3-4 WATER CLOSET
- URINALS:** KOHLER "DEXTER" K-5452-ET (0.125 G.P.F.) OR EQUAL  
W/ SLOAN MODEL 186-0.125 FLUSH VALVE (0.125 G.P.F.) OR EQ.
- LAVATORIES:** KOHLER "KINGSTON" K-2005 20" x 18" OR EQUAL.
- FAUCET:** T & S BRASS, B-2711-F05 (0.5 GPM) OR EQUAL.
- OPT. WATER HEATER:** "CHRONOMITE", INSTANTANEOUS ELECTRIC (OR EQUAL), 6.15 KW MIN. EXPOSED HOT WATER PIPES SHALL BE INSULATED. 1" THICK INSULATION FOR PIPE 1" DIA OR LESS. 1 1/2" THICK INSULATION FOR PIPE GREATER THAN 1" DIA.
- COLD WATER PIPING:** TYPE L COPPER
- DRAIN, WASTE & VENT:** ABS AND PVC PIPES, STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION PER TITLE 24, PART 5, CALIFORNIA CODE OF REGULATIONS, CHAPTER 4, SEC. 401 (A)

- ALL PLUMBING FIXTURES AND ACCESSORIES TO BE INSTALLED IN ACCORDANCE WITH ACCESSIBILITY REQUIREMENTS. (PER SECTION C.B.C. 11B DIVISION 6)  
FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE BY ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. LEVER OPERATED, PUSH TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

- ALL TOILETS; FLOOR MOUNTED, OR WALL MOUNTED W/ HAND OPERATED FLUSH VALVE LOCATED 44 INCHES MAX. ABOVE FLOOR. WHEELCHAIR ACCESSIBLE TOILETS SHALL HAVE THE FLUSH VALVE ACTIVATOR ON THE OPEN SIDE.

- RESTROOM PRIVACY PARTITIONS:  
DOORS HANDLES FOR ENAMELED STEEL PARTITIONS SHALL BE PLACED ON BOTH SIDES NEAR THE LATCH; SHALL PROVIDE A CLEAR WIDTH OF 34" (CLEAR WIDTH FROM INSIDE FACE OF DOOR OPEN 90 DEGREES TO DOOR STOP) FOR WHEELCHAIR ACCESSIBLE STALLS AND 24" WIDE FOR STANDARD STALLS. DOORS FOR ACCESSIBLE TOILETS SHALL BE SELF CLOSING, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE  
SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. SHALL BE 5 LBS. MAX. TO ACTIVATE OPERABLE PARTS, AND SHALL BE 34" MINIMUM AND 44 INCHES MAXIMUM ABOVE FINISHED FLOOR. (TOILET PARTITIONS MATERIALS PER 2022 CBC 803.1.1 - MIN. CLASS "C" RATING)

- RESTROOM DOOR SIGNAGE:

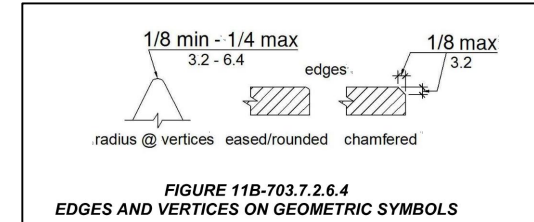
THE DOOR LEADING INTO MEN'S / BOY'S FACILITY SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4" THICK WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD.

THE DOOR LEADING INTO WOMEN'S / GIRLS FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER.

UNISEX FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4 THICK AND 12" IN DIAMETER WITH A 1/4" THICK TRIANGLE WITH THE VERTEX POINTING UPWARD SUPERIMPOSED ON THE CIRCLE & WITHIN THE 12" DIAMETER, MAXIMUM 1/4" FROM THE CIRCLE EDGES.

GEOMETRIC SIGNS SHALL BE MOUNTED ON THE DOOR AT A HEIGHT PER DETAIL 5/A5.

GEOMETRIC SIGNS SHALL HAVE CONTRASTING COLOR REQUIREMENTS PER 11B-703.7.2.6. SEE DETAIL 5/A5.



**ROOFING**

- METAL ROOF:  
PREFINISHED, UNPENETRATED INTERLOCKING, 26 GAGE MIN. GALVANIZED STEEL ROOF PANELS, MECH. CRIMPED STANDING SEAMS OVER SEAL-TITE #15 UNDERLAYMENT OVER 5/8" APA RATED, EXTERIOR GRADE PLYWOOD, OR ORIENTED STRAND BOARD (CLASS "B" FIRE RATING), REFERENCE 2/A1R FOR ATTACHMENT.  
AGED SOLAR REFLECTANCE: 0.08 THERMAL EMITTANCE: 0.75

**INSULATION**

- ALL INSULATION (INCLUDING PIPE INSULATION) SHALL COMPLY WITH CALIFORNIA QUALITY STANDARDS, CALIFORNIA BUILDING CODE, SEC. 720 & 2603 FOR FOAM.  
MAX FLAME SPREAD: 25, MAX SMOKE DENSITY: 450

**ROOF:**  
SEE 1/A6B FOR TYPICAL ROOF ENVELOPE ASSEMBLY.

**WALLS:**  
SEE 2/A6B FOR TYPICAL EXTERIOR WALL ENVELOPE ASSEMBLY.

**FLOOR:**  
SEE 3/A6B FOR TYPICAL FLOOR ENVELOPE ASSEMBLY.

- ALL JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED TO LIMIT INFILTRATION AND EXFILTRATION.

**IDENTIFICATION LABELS**

1. THE MANUFACTURER SHALL MECHANICALLY FASTEN TWO PERMANENT METAL IDENTIFICATION LABELS ON EACH BUILDING MODULE, ONE ON THE EXTERIOR AND THE OTHER LOCATED ON THE INTERIOR FRAME ABOVE THE CEILING, AT THE END OF THE MODULE.  
THE LABELS SHALL SHOW THE DSA APPLICATION NUMBER AND CBC EDITION UNDER WHICH THE BUILDING CONSTRUCTION WAS AUTHORIZED, THE MANUFACTURER'S NAME, THE SERIAL NUMBER, THE DESIGN CLIMATE ZONES (PER TITLE 24, PART 6, § 140.3(A)(8)), THE DESIGN LIVE LOADS FOR THE ROOF AND FLOOR FRAMING, THE DESIGN WIND SPEED AND EXPOSURE CATEGORY AND SEISMIC DESIGN PARAMETER, Ss.  
FOR BUILDINGS CONSTRUCTED IN ACCORDANCE WITH 2022 CBC, THE LABEL SHALL ALSO SHOW ASSOCIATED PV POWER REQUIREMENTS. SEE TABLE 4/A6B FOR PV/BATTERY POWER REQUIREMENTS PER BUILDING SIZE.

**LUMBER NOTES**

- SAWN LUMBER GRADED PER WEST COAST LUMBER INSPECTION BUREAU, RULE 17.
- ALL FRAMING LUMBER SHALL BE DOUGLAS FIR #2, ALL BLOCKING SHALL BE DOUGLAS FIR #3.
- LAG SCREWS AND SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
- LUMBER MAY BE REJECTED FOR BOXED HEART, EXCESSIVE WARP, TWIST, SPLIT, CHECK, FUNGUS, MOLD, OR ANY REASON PROVIDED BY GRADING RULES.
- ALL FRAMING LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF INSTALLATION AND SHALL BE AT 19% MAXIMUM MOISTURE CONTENT (VERIFIED BY THE IN-PLANT INSPECTOR) BEFORE BEING ENCLOSED BY INSULATION, GYPSUM BOARD, OR OTHER SURROUNDING MATERIALS.

**BUILDING AND WALL PANELS:**

- ALL MODULES MAY BE BUILT OPPOSITE HAND FROM THE WAY THEY ARE SHOWN
- SIDEWALL & ENDWALL ELEVATIONS DEPICT NON-BEARING WALLS NOT REQUIRED FOR THE RESISTANCE OF VERTICAL OR LATERAL LOADS.

**WILDLAND URBAN INTERFACE (WUI):**

BELOW ARE SPECIFIC REQUIREMENTS FOR EXTERIOR MATERIALS FOR BUILDINGS PLACED IN FIRE HAZARD SEVERITY ZONES. (CBC CHAPTER 7A) WHERE WUI OPTIONS ARE NECESSARY, SITE SPECIFIC DETAILS SHALL BE PROVIDED FOR THE OPTIONS LISTED BELOW.

ITEMS LISTED BELOW MAY BE SUBSTITUTED BY ANY ALTERNATE MATERIALS / PRODUCTS LISTED IN THE CURRENT VERSION OF "CAL-FIRE / STATE FIRE MARSHAL LISTED WILDLAND URBAN INTERFACE (WUI) PRODUCTS" HANDBOOK.

**ROOF COVERING:** (C.B.C. SECTION 705A)  
26 GA. GALV. STEEL (NON-COMBUSTIBLE) INTERLOCKED STANDING SEAM ROOF PANELS, INSTALLED OVER ONE LAYER GAF "VERSABOND" DECK PROTECTION UNDERLAYMENT (OR EQ), INSTALLED OVER ROOF DECKING (NO SPAN BETWEEN ROOF PANELS AND DECKING).  
(CLASS "A" RATED ROOF, ICC ESR-2053).

**ROOF GUTTERS:** (C.B.C. SECTION 705A.4)  
SHALL BE SCREENED WITH A CORROSION-RESISTANT NONCOMBUSTIBLE WIRE MESH WITH 1/4" (6mm) MAX. OPENINGS (OR EQ)

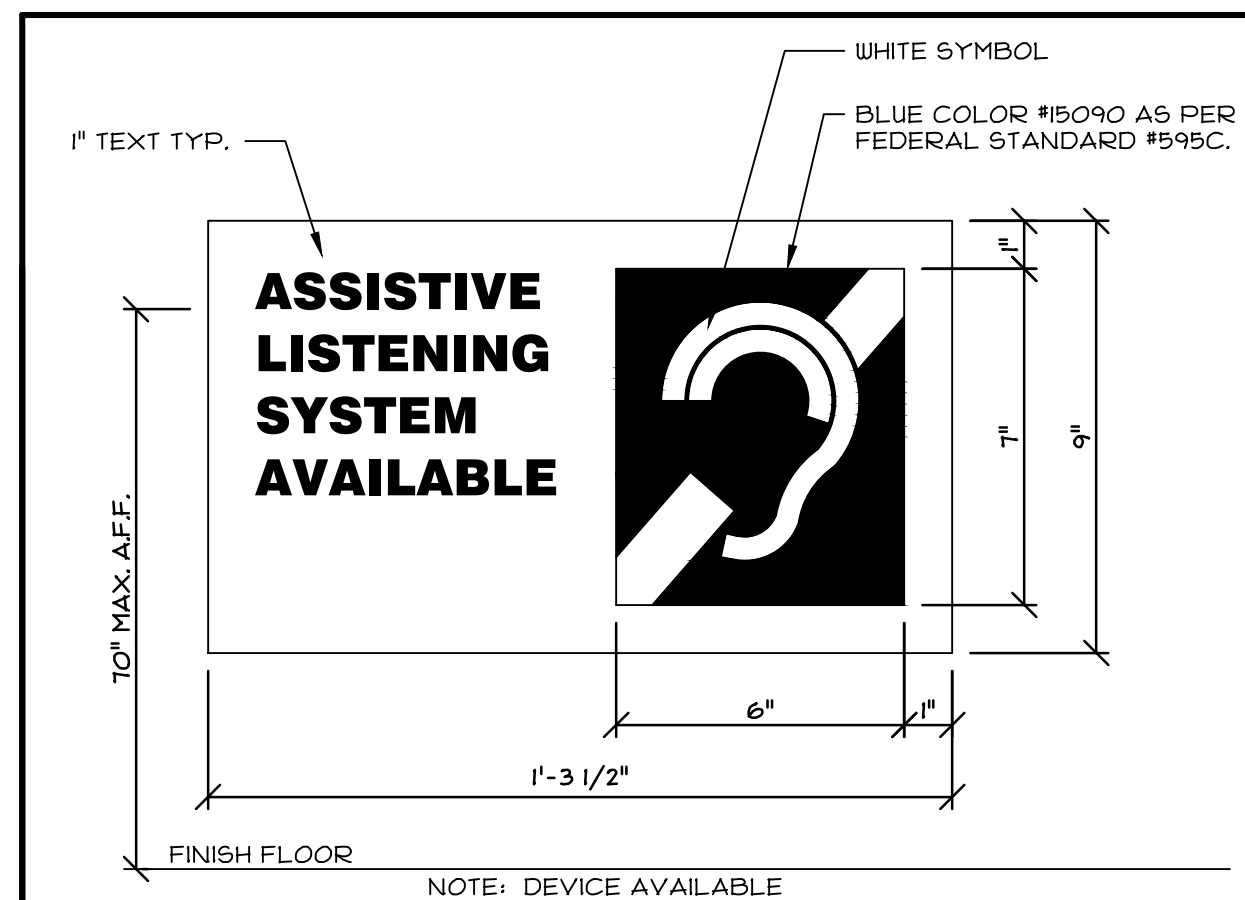
**SOFFITS:** (C.B.C. SECTION 70A.5)  
INTERLOCKING METAL SOFFIT PANELS, NON-COMBUSTIBLE, 12" WIDE x 22 GA (OR EQ). COVERHANG SOFFIT MAY BE NON-VENTED, PER DETAIL 20/S4.4 (OR EQ).  
OR  
JAMES HARDI - "HARDI SOFFIT" 3/16" AND 1/2", NON-COMBUSTIBLE FIBER-CEMENT PANEL (OR EQ).  
(CSFM LISTING No: 8160-2620.000)  
OR  
LOUISIANA PACIFIC - "LP FLAME BLOCK" -15/32" OSB PANEL WITH PYROTILE COATING APPLIED TO ONE SIDE (OR EQ).  
(CSFM LISTING No: 8160-2027.0007)

**EXTERIOR WALL FINISH:** (C.B.C. SECTION 707 A.1)  
3-COAT STUCCO / CEMENT PLASTER FINISH, 7/8" MIN. TOTAL THICKNESS.  
OR  
LOUISIANA PACIFIC - "LP SMARTSIDE", 7/16" EXTERIOR PANEL SIDING (OR EQ).  
(CSFM LISTING No: 8140-2026.0002)  
OR  
JAMES HARDI - "HARDI TEXTURED PANEL", 5/16" NON-COMBUSTIBLE FIBER-CEMENT PANEL SIDING (OR EQ).  
(CSFM LISTING No: 8140-2026.0502)  
OR  
JAMES HARDI - "HARDI-PLANK", 5/16" FIBER-CEMENT LAP SIDING (OR EQ).  
(CSFM LISTING No: 8140-2026.0005)

**VENTS:** (C.B.C. SEC. 706A.1 & 2)  
BRANDQUARD VENTS - 26 GAUGE HOT DIPPED GALV SHEET STEEL, GALV 1/8" SQUARE MESH SCREEN (OR EQ).  
(CSFM LISTING No: 8165-2232.0500, 8165-2232-0502)

**EXTERIOR WINDOWS:** (C.B.C. SECTION 708A.2.1)  
METAL FRAME, MULTI-PANE WITH A MINIMUM OF ONE TEMPERED PANE OR  
HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 20 MINUTES.

**EXTERIOR DOORS:** (C.B.C. SECTION 708A.3)  
DOOR SURFACE OR CLADDING SHALL BE OF NON-COMBUSTIBLE MATERIAL OR  
DOOR ASSEMBLY SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES.



ALL SIGNS AND PLAQUES TO BE 1/4" THICK ACRYLIC PLASTIC. ALL SYMBOLS AND LETTERS TYPICAL. ALL SYMBOLS AND LETTERS TO HAVE A COLOR WHICH CONTRASTS WITH THE SIGN COLOR. ANCHOR SIGN TO WALL WITH EXPOSED TAMPER RESIST SCREWS.  
ALL SIGNS/PLAQUES TO HAVE A COLOR WHICH CONTRASTS WITH THE SURFACE TO WHICH THEY ARE MOUNTED.  
ALS SHALL COMPLY WITH 11B-103.5 AND BE MOUNTED PER TABLE 11B-103.5.5

**6 ASSISTIVE LISTENING SIGN**

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10/11/2023

REGISTERED PROFESSIONAL ENGINEER  
No. S23030  
STATE OF CALIFORNIA

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APP: 02-121249-PC  
REVIEWED FOR  
SS [ ] PLS [ ] ACS [ ] CG [ ]  
DATE: 10/24/2023

**ROBERTS FERRY ES**  
at  
**ROBERTS FERRY UESD**

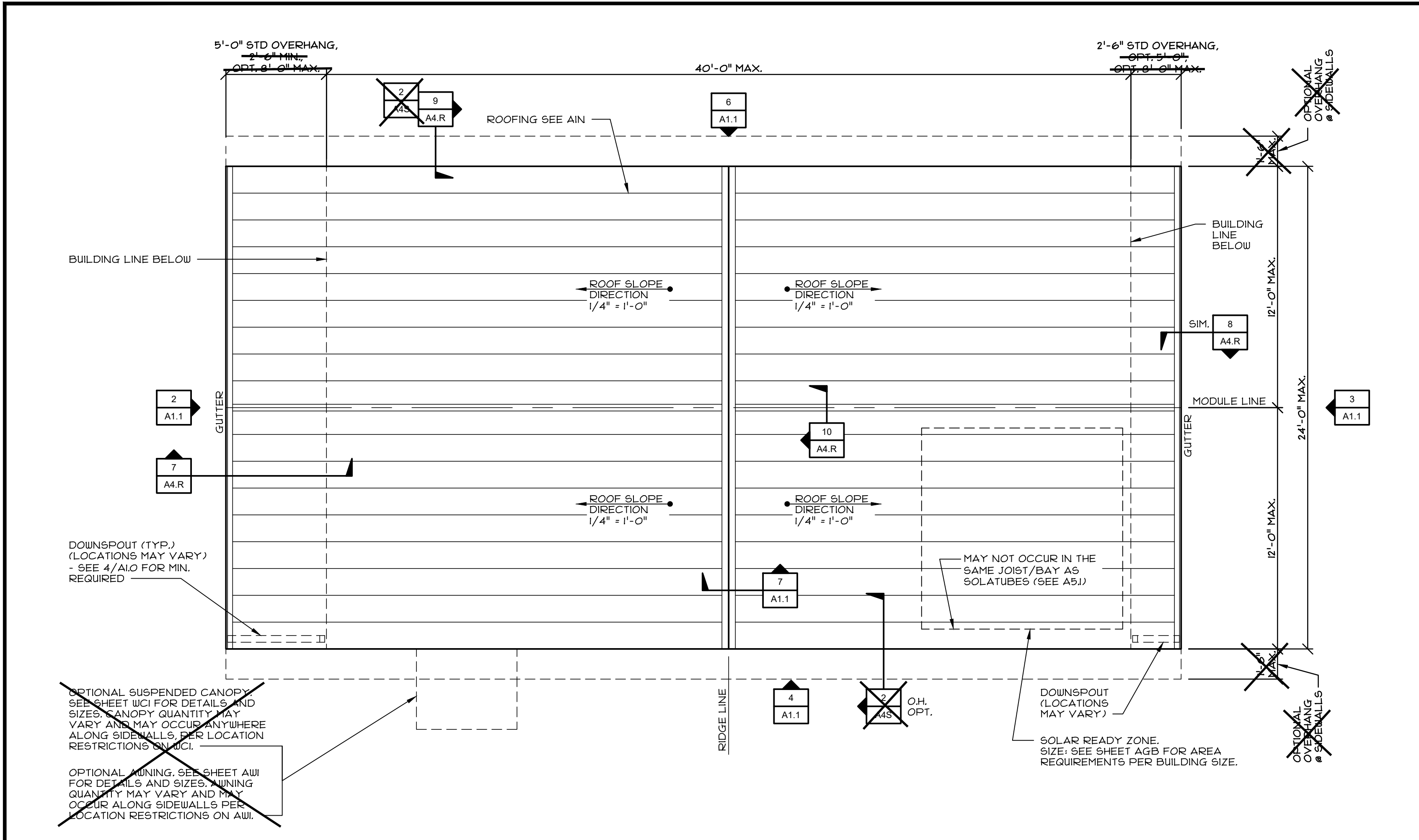
**MATERIAL SPECIFICATIONS & NOTES**

REV / DATE: BY:

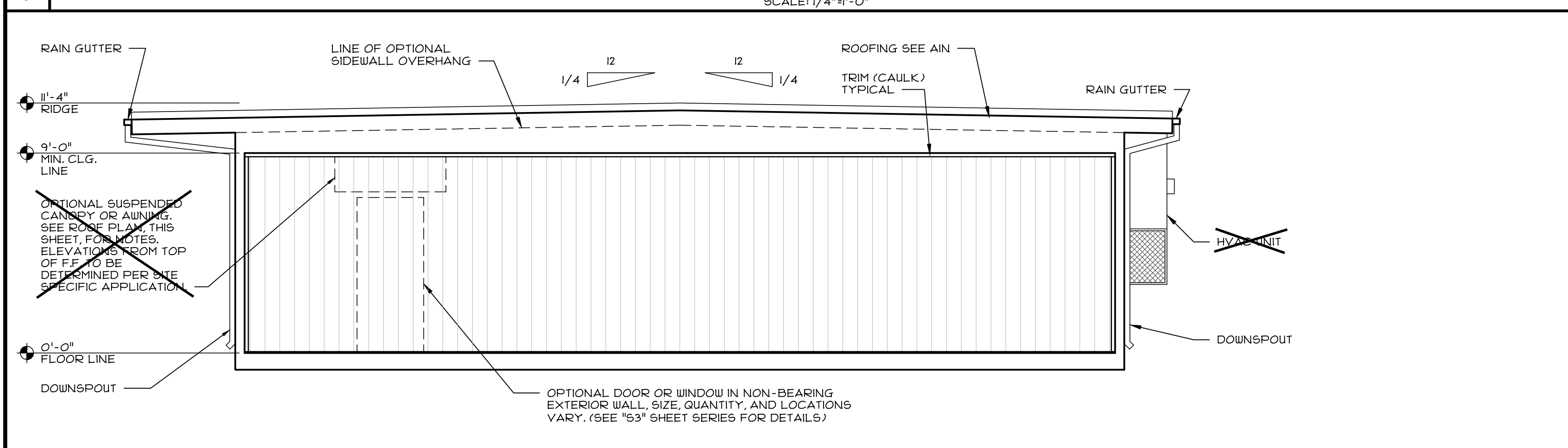
JOB No.:  
DRAWN BY:  
DATE:

**A1N**

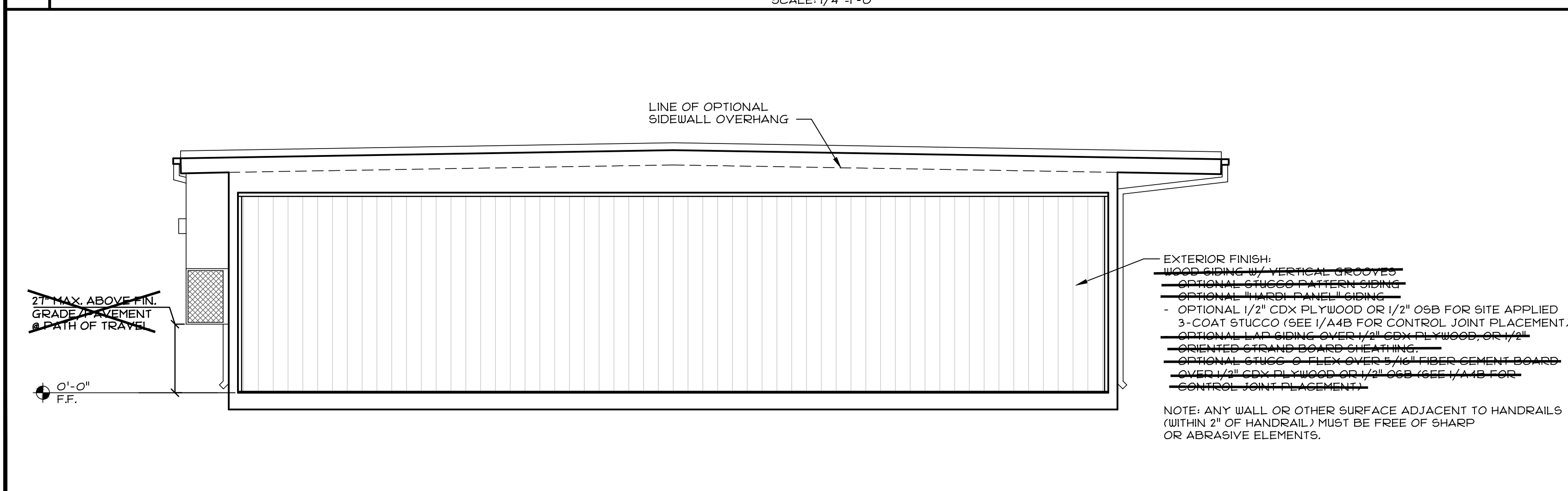
24"x40" TO 120"x40" P.C.



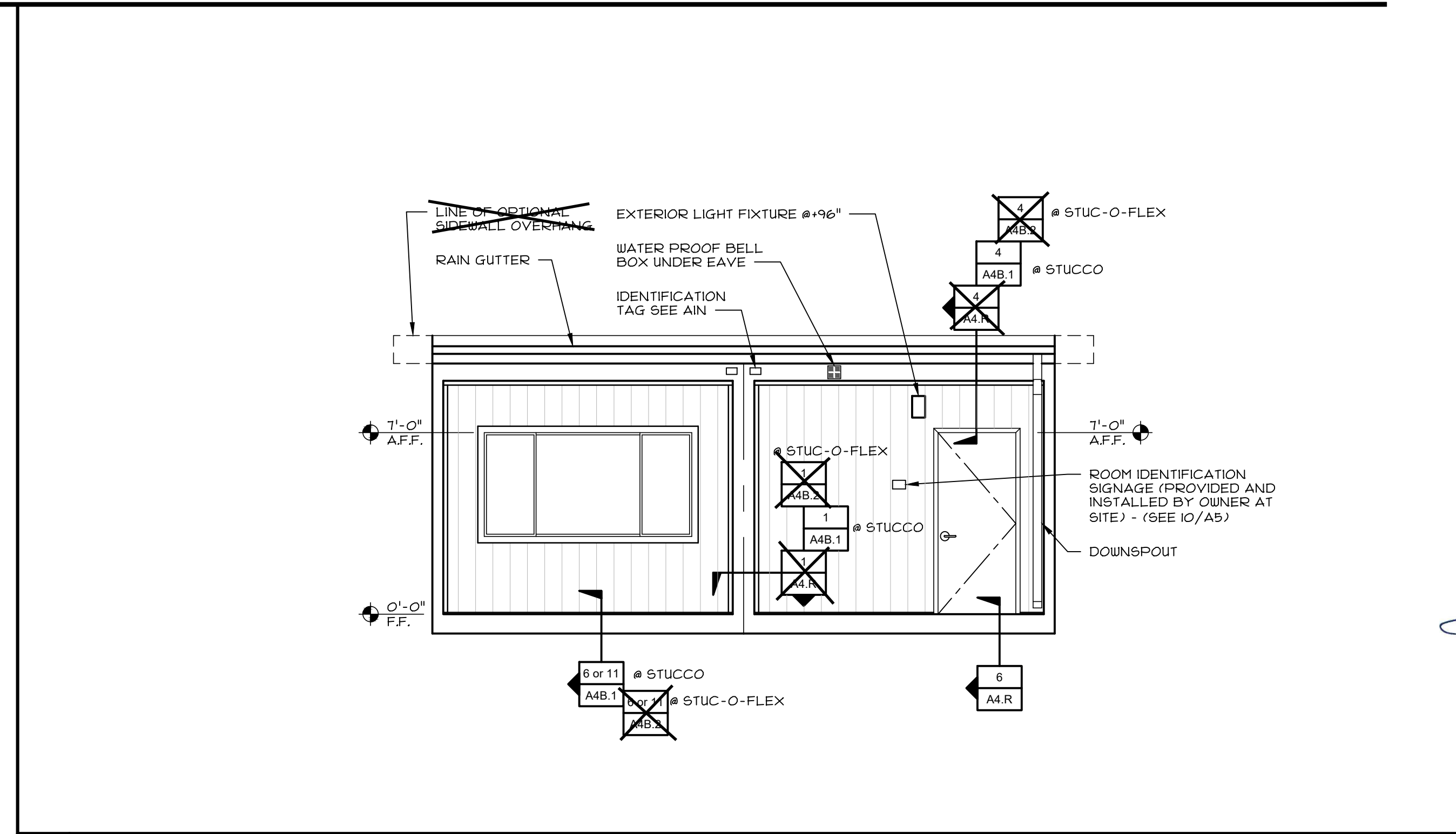
**1 ROOF PLAN**  
SCALE: 1/4" = 1'-0"



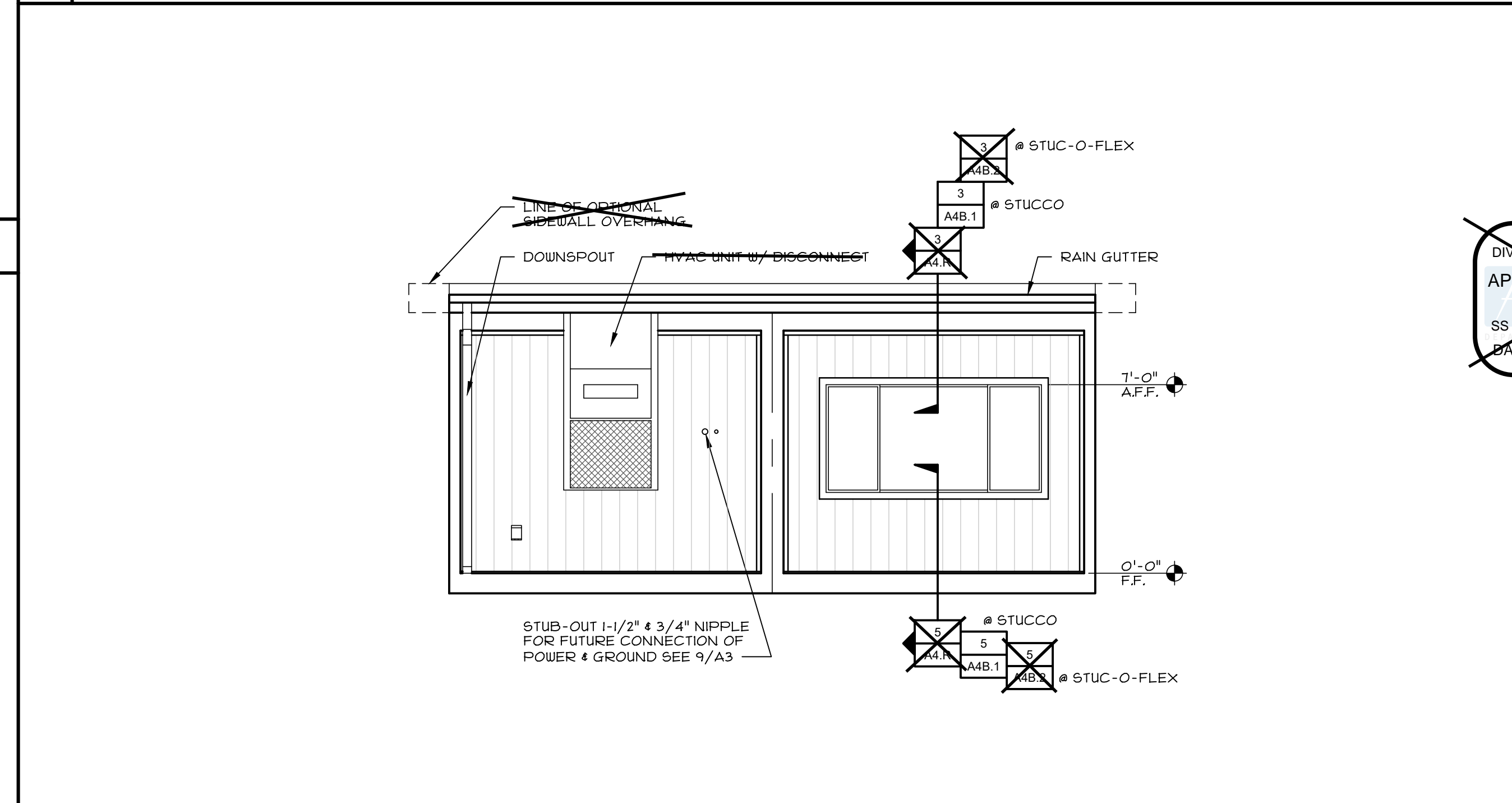
**4 SIDE WALL EXTERIOR ELEVATION**  
SCALE: 1/4" = 1'-0"



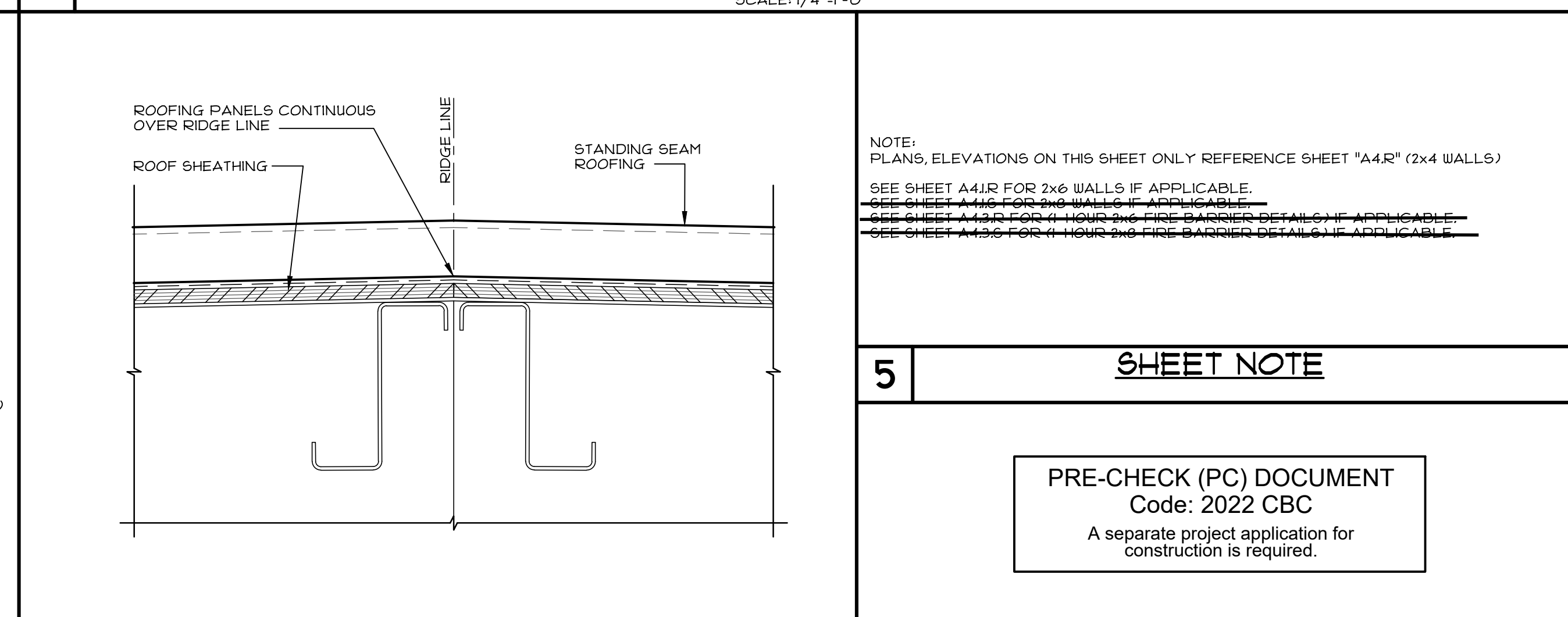
**6 SIDE WALL EXTERIOR ELEVATION**  
SCALE: 1/4" = 1'-0"



**2 END WALL EXTERIOR ELEVATION**  
SCALE: 1/4" = 1'-0"



**3 END WALL EXTERIOR ELEVATION**  
SCALE: 1/4" = 1'-0"



**7 TYP. ROOF CAP DETAIL**  
SCALE: 3" = 1'-0"

NOTE:  
PLANS, ELEVATIONS ON THIS SHEET ONLY REFERENCE SHEET "A4R" (2x4 WALLS)  
SEE SHEET A4JR FOR 2x6 WALLS IF APPLICABLE.  
SEE SHEET A116 FOR 2x6 WALLS IF APPLICABLE.  
SEE SHEET A116 FOR 2x6 WALLS IF APPLICABLE.  
SEE SHEET A116 FOR 2x6 WALLS IF APPLICABLE.

**5 SHEET NOTE**

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at  
**ROBERTS FERRY UESD**

**BI-PITCH ROOF PLAN,  
EXTERIOR ELEVATIONS**

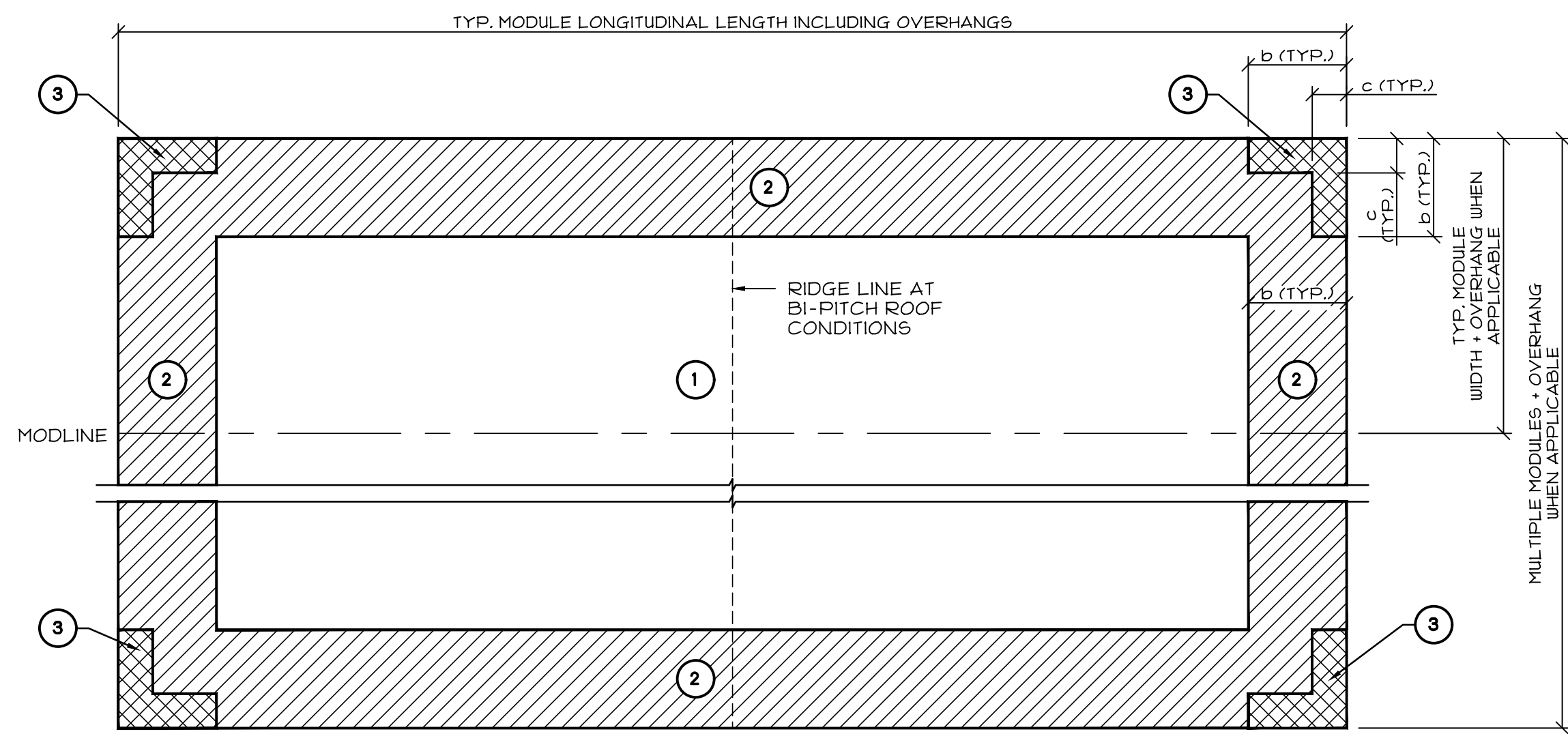
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**A1.1**

**REBID - April 14, 2024**

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24"x40" TO 120"x40" P.C.



NOTE: FOR INFORMATION REGARDING ZONES 1, 2, & 3, SEE DETAIL 2 THIS SHEET.

**"BIPITCHED" OR "SHED" ROOF**

- b - 0.6h
- c - 0.2h
- h = MEAN ROOF HEIGHT IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ANGLES < 10°

INDICATE DESIGN WIND PRESSURE ZONES PER ASCE 7-16 FIGURE 30.4-1, SEE SCHEDULE ON DETAIL 3, THIS SHEET FOR WIND PRESSURES IN EACH ZONE.

\* b, c AND h DIMENSIONS DETERMINE THE LIMITS OF ZONE 3 AND MUST BE INDICATED ON A PLAN FOR EACH SITE-SPECIFIC PROJECT.

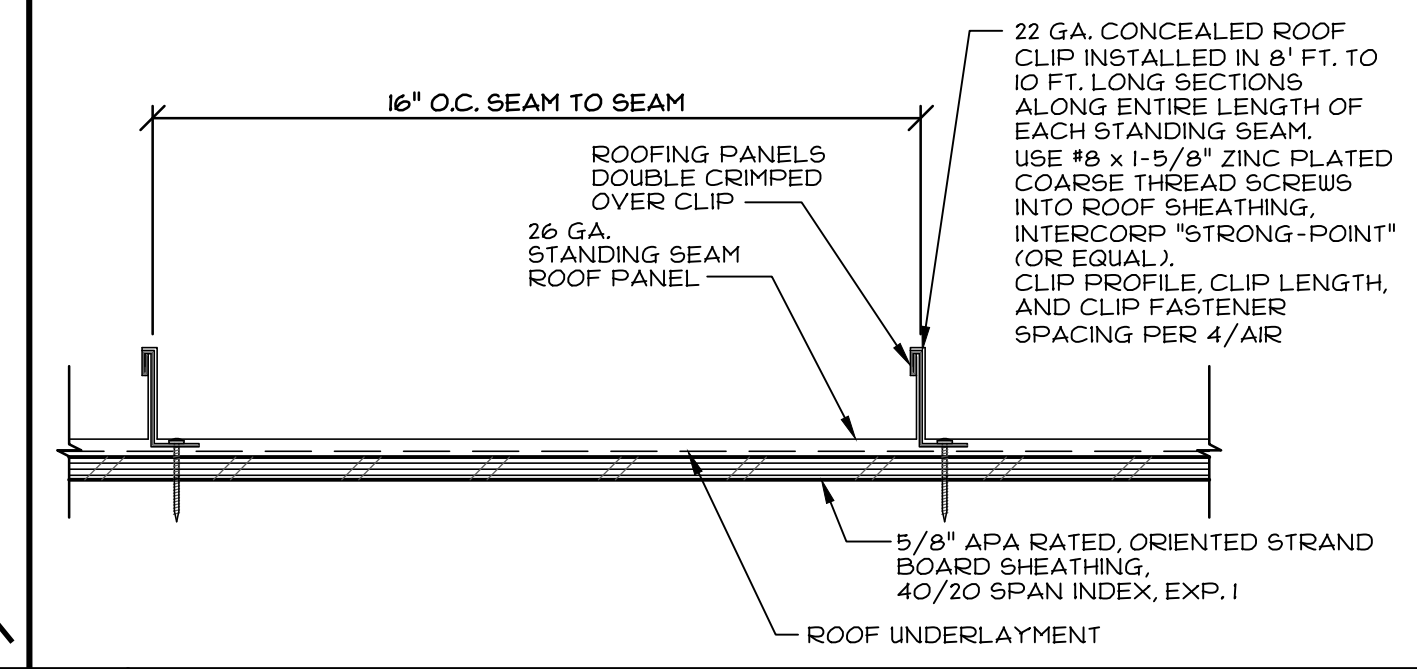
**"VARIABLE FITCHED" ROOF**

- a = DIMENSION PER ASCE 7-16 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3'
- h = MEAN ROOF HEIGHT IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ANGLES < 10°

INDICATE DESIGN WIND PRESSURE ZONES PER ASCE 7-16 FIGURE 30.4-1, SEE SCHEDULE ON DETAIL 3, THIS SHEET FOR WIND PRESSURES IN EACH ZONE.

\* a, AND h DIMENSIONS DETERMINE THE LIMITS OF ZONE 3 AND MUST BE INDICATED ON A PLAN FOR EACH SITE-SPECIFIC PROJECT.

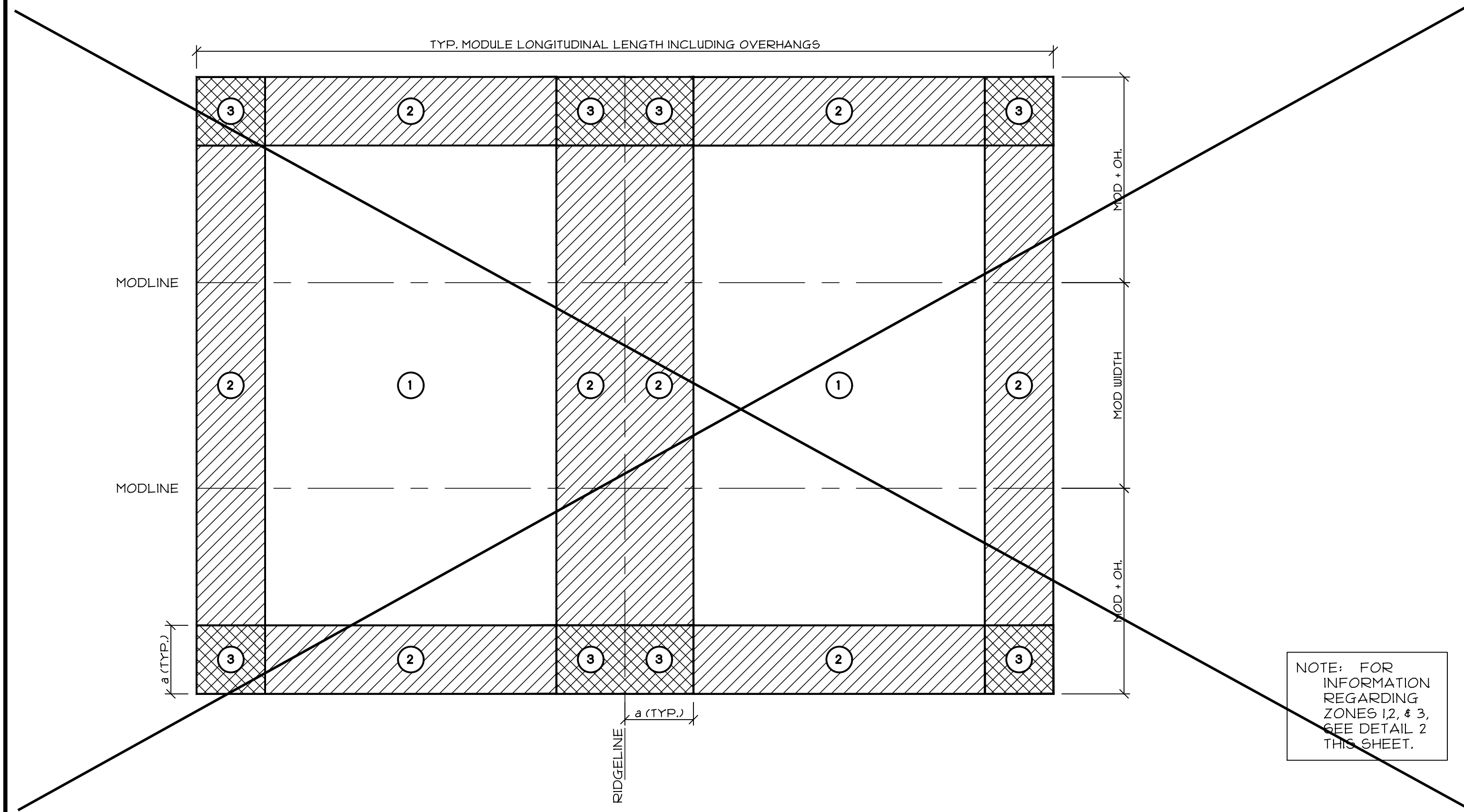
ZONE	ULTIMATE LRPD WIND UPLIFT (PSF)
3	88.6
2	64.6
1	46.1



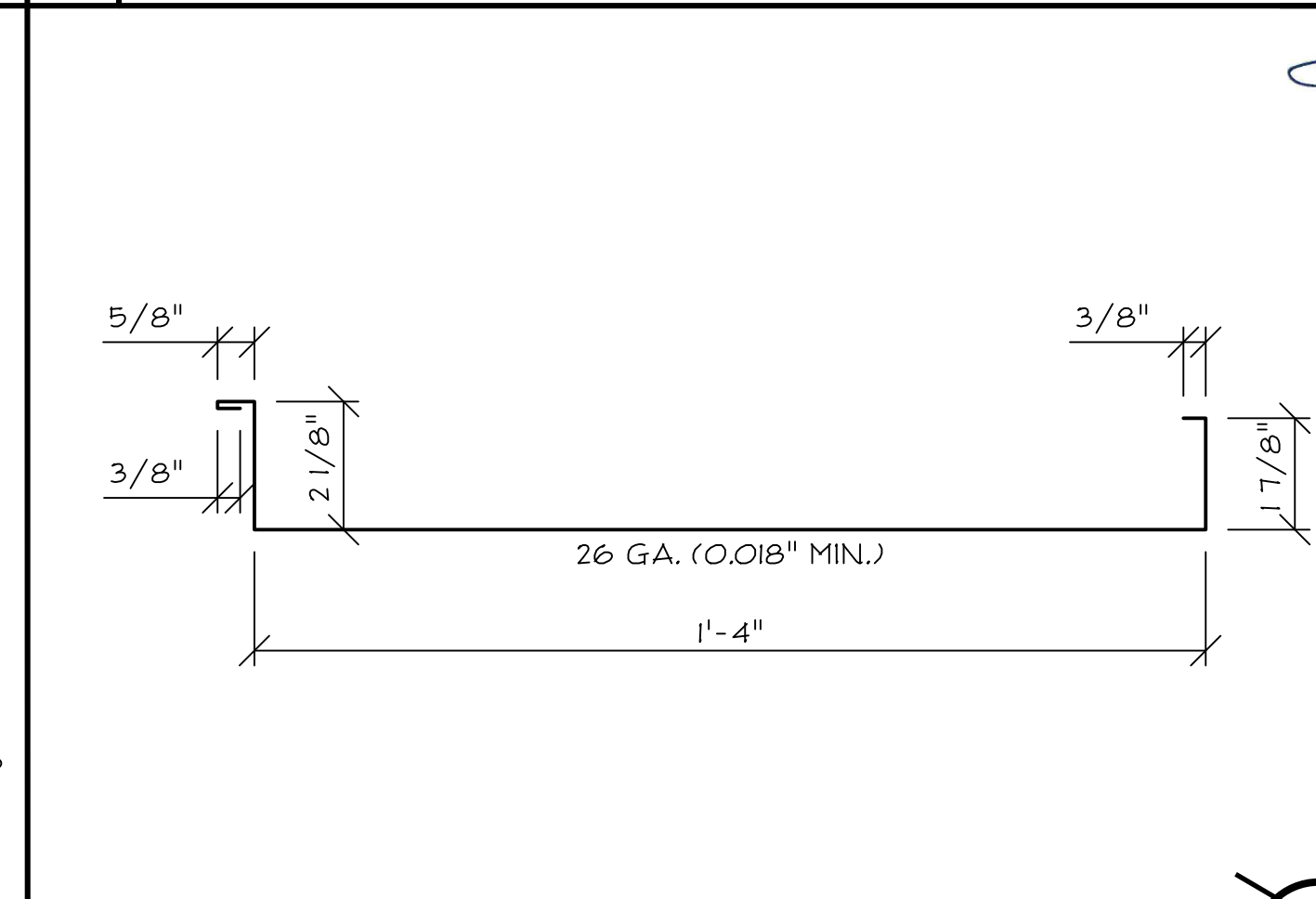
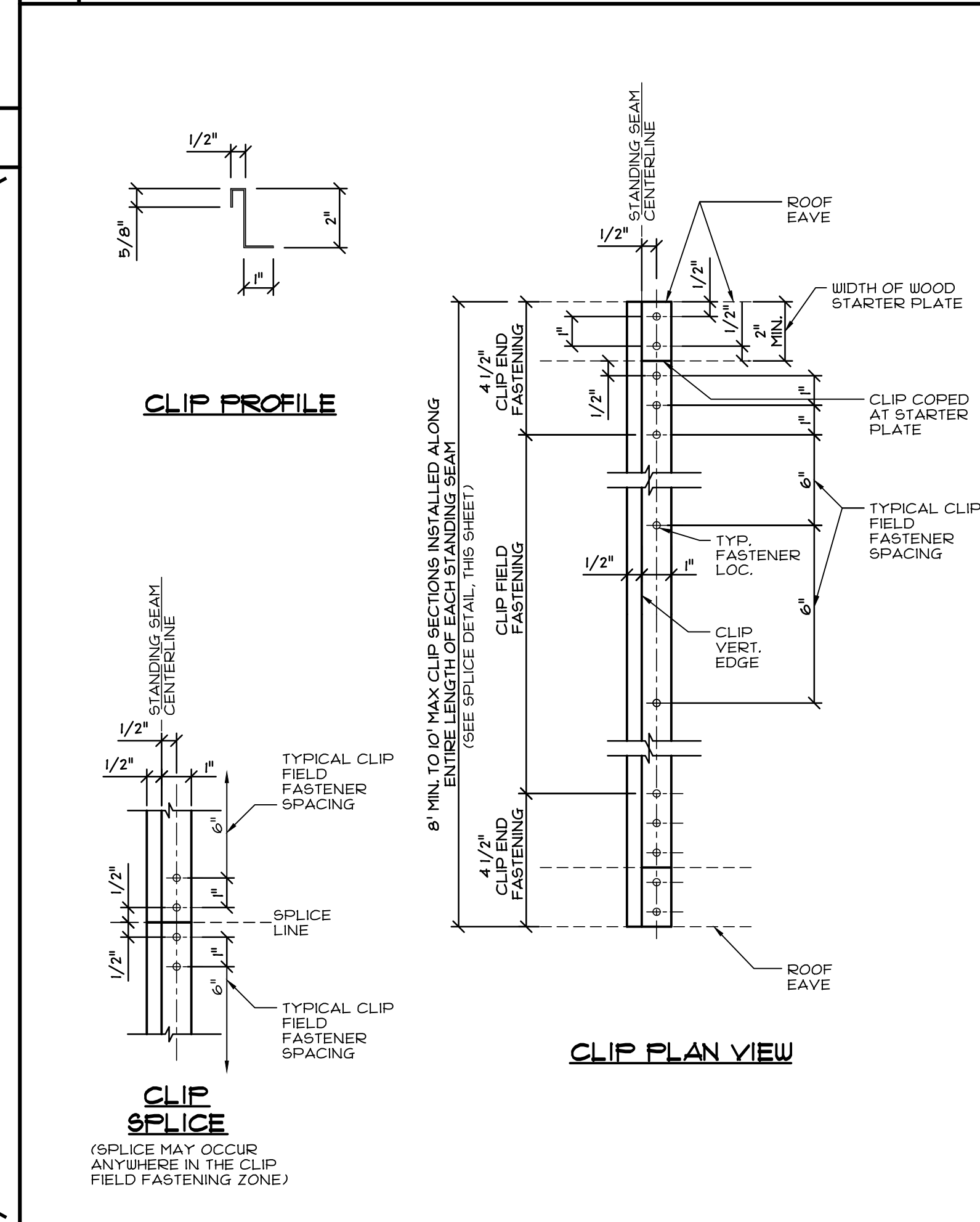
**2 NOTES**

**3 TYP. ROOFING ATTACHMENT**  
SCALE: 3"=1'-0"

**1A WIND PRESSURE ZONES AT "SHED" OR "BIPITCHED" ROOF**  
SCALE: NONE

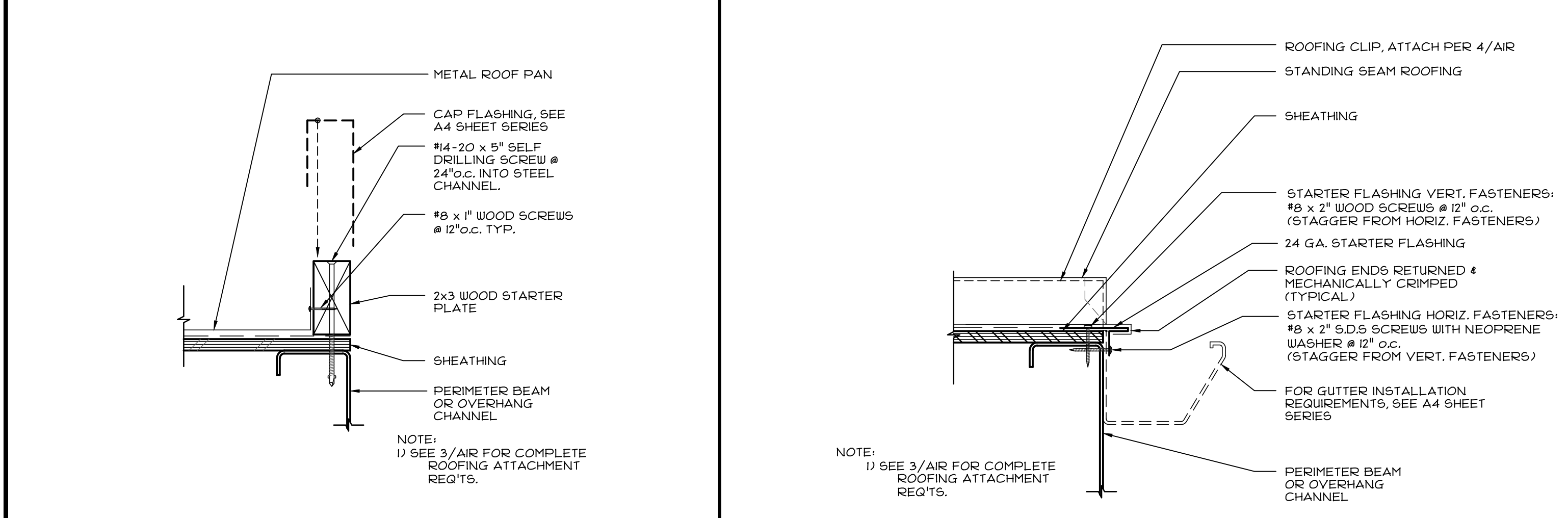


NOTE: FOR INFORMATION REGARDING ZONES 1, 2, & 3, SEE DETAIL 2 THIS SHEET.

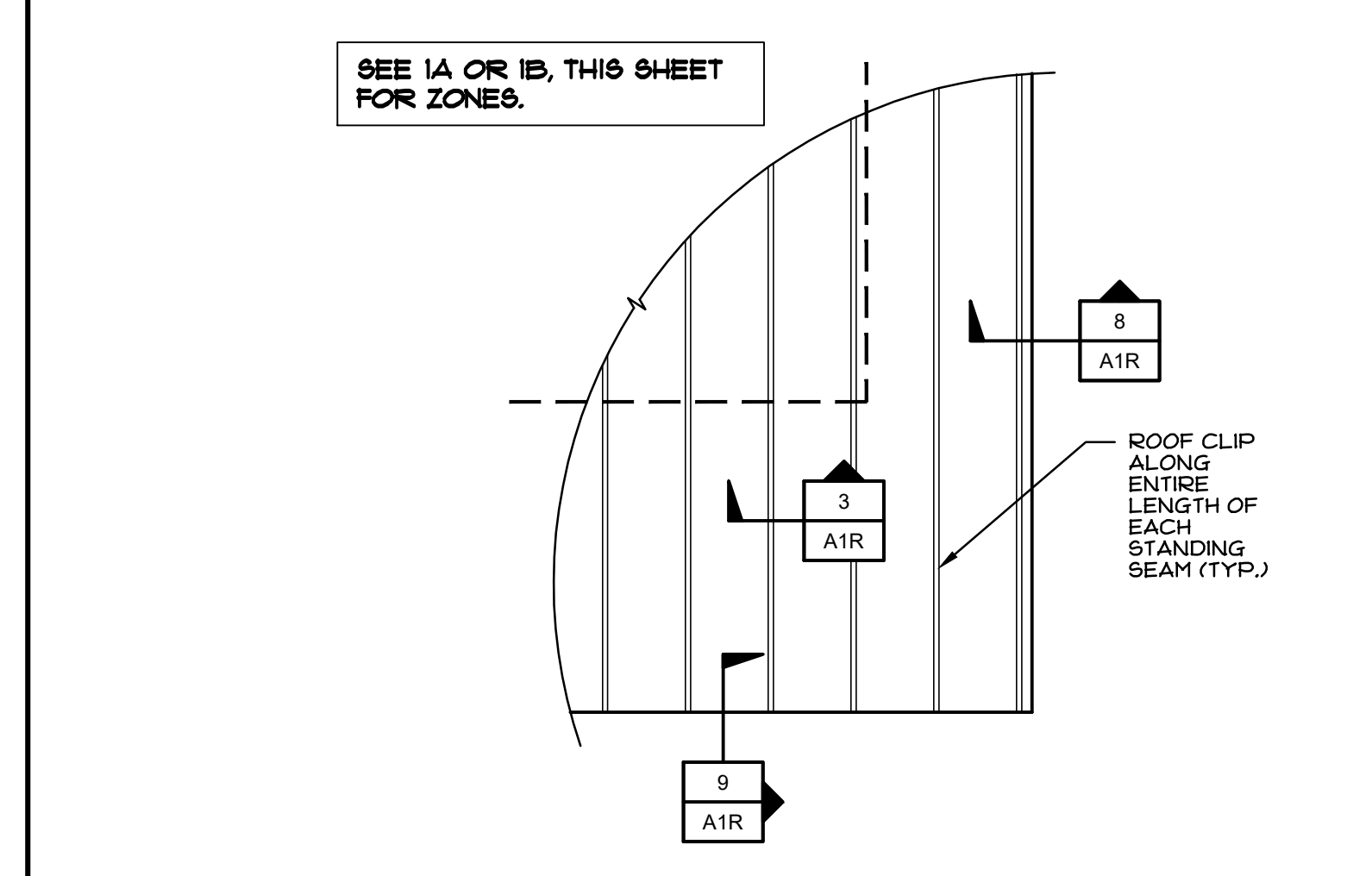


**5 TYP. STANDING SEAM PANEL**  
SCALE: NTS

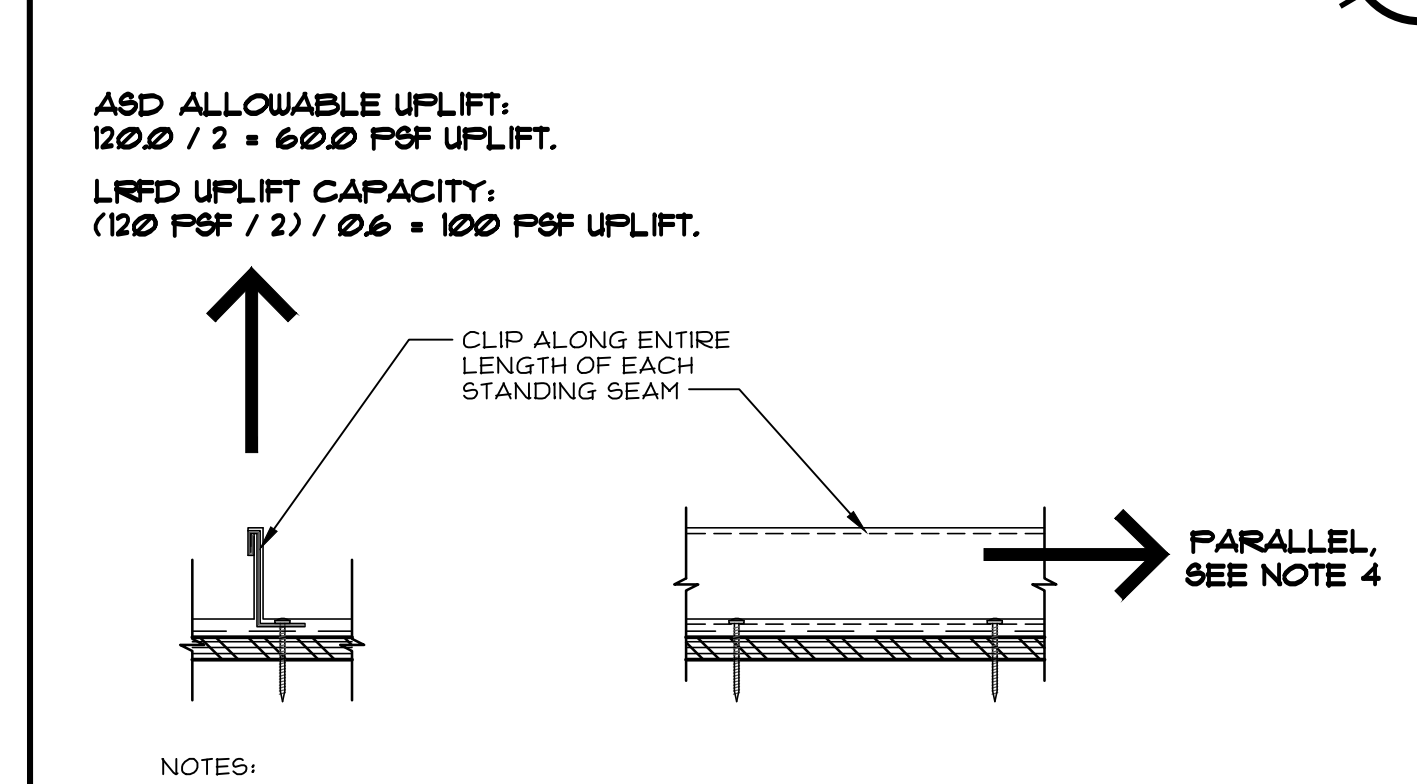
**1B WIND PRESSURE ZONES AT "VARIABLE-PITCHED" ROOF**  
SCALE: NONE



**4 TYP. ROOFING CLIP**  
SCALE: 3"=1'-0"



**7 ROOFING CLIP CAPACITIES**  
SCALE: NONE



- NOTES:
- VALUES HAVE BEEN DETERMINED BY TESTING IN ACCORDANCE WITH UL 1897, STANDARD FOR SAFETY, UPLIFT TESTS FOR ROOF COVERING SYSTEMS, TURNING CONSULTING/RADCO, INC., TEST REPORT NO: 226005.R-REV 1, ISSUED MARCH 28, 2022.
  - NOT USED.
  - ALLOWABLE UPLIFT CAPACITY INCLUDES A SAFETY FACTOR = 2
  - THE CLIP SLIDING CAPACITY HAS NOT BEEN TESTED. IF SOLAR PANELS ARE TO BE ADDED TO A ROOF, THE ROOF CLIP SLIDING CAPACITY MUST BE DETERMINED BY FIELD TESTING FOR ROOF SLOPES EQUAL TO OR GREATER THAN 1 DEGREE, EXCEPT IF THE SLIDING LOAD FROM SEISMIC AND WIND ON THE SOLAR PANEL SYSTEM IS LESS THAN THE DISPLACED DESIGN LIVE LOAD SLIDING COMPONENT PER IR 16-8 SECTION 5J.2.
  - P.V. PANEL ATTACHMENT IS NOT PART OF THIS PC APPROVAL.
  - CONVERSION FROM ALLOWABLE UPLIFT (ASD) TO UPLIFT CAPACITY (LRFD) BASED ON ASD WIND PRESSURE = 0.6 (LRFD WIND PRESSURE).

**8 ROOFING INSTALLATION - SIDEWALL**  
SCALE: 3"=1'-0"

**9 ROOFING INSTALLATION - ENDWALL**  
SCALE: 3"=1'-0"

**6 ROOFING CLIP SPACING DETAIL**  
SCALE: NONE

**7 ROOFING CLIP CAPACITIES**  
SCALE: NONE

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DATE: 10/24/2023

**ROBERTS FERRY ES**  
at  
**ROBERTS FERRY UESD**

**ROOFING ATTACHMENT**

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DATE:	

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**A1R**

**REBID - April 14, 2024**

LIST OF HVAC EQUIPMENT (ANY SUBSTITUTIONS OF EQUIPMENT MADE TO THE APPROVED PC MUST BE EQUAL OR BETTER THAN THE EQUIPMENT LISTED BELOW)						
	ROOM SIZE: 24x40 <sup>1</sup>			ROOM SIZE: 36x40 <sup>1</sup>		
	EXTERIOR WALL MOUNT HVAC UNIT	INTERIOR HVAC UNIT	EXTERIOR ROOF MOUNT HVAC UNIT	EXTERIOR WALL MOUNT HVAC UNIT	INTERIOR HVAC UNIT	EXTERIOR ROOF MOUNT HVAC UNIT
CLIMATE ZONES	FOR APPROVED CLIMATE ZONES, SEE "ENERGY COMPLIANCE" ON COVERSHEET A0.			FOR APPROVED CLIMATE ZONES, SEE "ENERGY COMPLIANCE" ON COVERSHEET A0.		
MAKE AND MODEL OF HVAC EQUIPMENT	(1) "BARD" W48HC, 4.0 TON, SINGLE PACKAGE WALL MOUNT HEAT PUMP W/ ECONOMIZER	(1) "AIRDALE" CMP48, 4.0 TON, SINGLE PACKAGE INTERIOR HEAT PUMP W/ ECONOMIZER	(1) "GOODMAN" GPH648M, 4.0 TON, SINGLE PACKAGE ROOF MOUNT HEAT PUMP W/ ECONOMIZER	(1) "BARD" W48HC, 4.0 TON, SINGLE PACKAGE WALL MOUNT HEAT PUMP W/ ECONOMIZER	(1) "AIRDALE" CMP48, 4.0 TON, SINGLE PACKAGE INTERIOR HEAT PUMP W/ ECONOMIZER	(1) "GOODMAN" GPH648M, 4.0 TON, SINGLE PACKAGE ROOF MOUNT HEAT PUMP W/ ECONOMIZER
UNIT WEIGHT (LBS.)	515	850	500 LBS MAX.	515	850	500 LBS MAX.
REQUIRED MINIMUM HEATING (BTUH)	41,378	41,200	45,500	41,378	41,200	45,500
MINIMUM AUXILIARY STRIP HEATING	10 KW	10 KW	10 KW	10 KW	10 KW	10 KW
REQUIRED MINIMUM COOLING (BTUH)	41,500	45,200	41,000	41,500	45,200	41,000
MINIMUM EFFICIENCY RATING	11.0 EER 3.3 COP SINGLE PHASE OR 3 PHASE	11.0 EER 4.0 COP SINGLE PHASE OR 3 PHASE	12.0 EER 3.7 COP SINGLE PHASE OR 3 PHASE	11.0 EER 3.3 COP SINGLE PHASE OR 3 PHASE	11.0 EER 4.0 COP SINGLE PHASE OR 3 PHASE	12.0 EER 3.7 COP SINGLE PHASE OR 3 PHASE
REQUIRED MINIMUM AIR FILTER	MERV 13 2" DEPTH	MERV 13 2" DEPTH	MERV 13 2" DEPTH	MERV 13 2" DEPTH	MERV 13 2" DEPTH	MERV 13 2" DEPTH
REQUIRED MINIMUM OUTDOOR AIR (CFM)	DESIGN OA: 365 DCV MIN. OA: T20	DESIGN OA: 365 DCV MIN. OA: T20	DESIGN OA: 365 DCV MIN. OA: T20	DESIGN OA: 548 DCV MIN. OA: 1080	DESIGN OA: 548 DCV MIN. OA: 1080	DESIGN OA: 548 DCV MIN. OA: 1080
REQUIRED DAMPER POSITION TO BRING IN OUTSIDE AIR	FULLY OPEN	FULLY OPEN	FULLY OPEN	FULLY OPEN	FULLY OPEN	FULLY OPEN
MAKE AND MODEL OF THERMOSTAT	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).
MAKE AND MODEL OF CARBON DIOXIDE MONITOR (CO <sub>2</sub> )	BARD (8403-096)	BARD (8403-096)	BARD (8403-096)	BARD (8403-096)	BARD (8403-096)	BARD (8403-096)
MAKE AND MODEL OF ECONOMIZER	"BARD" ECON-DB5	"AIRDALE" VC ECON	"GOODMAN" GPJMEDI02	"BARD" ECON-DB5	"AIRDALE" VC ECON	"GOODMAN" GPJMEDI02
MAKE AND MODEL OF OVERRIDE CONTROLS FOR HVAC EQUIPMENT	"BARD" JADE CONTROL MODULE (OR EQUAL)	"BARD" JADE CONTROL MODULE (OR EQUAL)	"BARD" JADE CONTROL MODULE (OR EQUAL)	"BARD" JADE CONTROL MODULE (OR EQUAL)	"BARD" JADE CONTROL MODULE (OR EQUAL)	"BARD" JADE CONTROL MODULE (OR EQUAL)
MAKE AND MODEL OF FAULT DETECTION DIAGNOSTICS	"BARD" JADE CONTROL MODULE (OR EQUAL)	"BARD" JADE CONTROL MODULE (OR EQUAL)	"BARD" JADE CONTROL MODULE (OR EQUAL)	"BARD" JADE CONTROL MODULE (OR EQUAL)	"BARD" JADE CONTROL MODULE (OR EQUAL)	"BARD" JADE CONTROL MODULE (OR EQUAL)
MAKE AND MODEL OF DEMAND CONTROL VENTILATION EQUIPMENT	"BARD" JADE CONTROL MODULE (OR EQUAL)	"BARD" JADE CONTROL MODULE (OR EQUAL)	"BARD" JADE CONTROL MODULE (OR EQUAL)	"BARD" JADE CONTROL MODULE (OR EQUAL)	"BARD" JADE CONTROL MODULE (OR EQUAL)	"BARD" JADE CONTROL MODULE (OR EQUAL)

<sup>1</sup> DERIVATIVES OF 24x40 AND 36x40 ROOM SIZES MAY BE COMBINED AND ATTACHED ADJACENT TO EACH OTHER TO FORM THE MAXIMUM BUILDING LENGTH ALLOWED BY THIS PC OF 120'-0".

- HEAT PUMP EQUIPMENT: SINGLE PACKAGE HEAT PUMP UNITS SHALL BE RATED IN ACCORDANCE WITH ARI STANDARDS 240-77 (U.L. LISTED) WIRING AND MOUNTING INSTALLATION OF UNIT PER MANUFACTURER'S INSTRUCTIONS.
- AIR FILTERS: MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13 (CGBS 5.504.5.3). FILTERS SHALL HAVE A 2" MINIMUM DEPTH PER ENERGY CODE 120.1(i)(1). AN APPROVED TYPE TESTED IN ACCORDANCE WITH TEST METHODS SFM-12-71-AS SHOWN IN PART 12, TITLE 24, CALIFORNIA CODE OF REGULATIONS. PREFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 2 OR BETTER, AS DEFINED IN THE TEST METHOD ABOVE. AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.
- CONTROLS: (@ +48" MAXIMUM A.F.F.) - (TO TOP OF BOX) THERMOSTAT: SEE HVAC EQUIPMENT SCHEDULE ON THIS SHEET. CO<sub>2</sub> SENSOR: SEE HVAC EQUIPMENT SCHEDULE ON THIS SHEET. SYSTEM SHALL BE INSTALLED WITH VENTILATION CONTROLS OF HVAC PER C.E.C. 120.2(e)(3).
- THERMOSTAT SHALL BE PROGRAMMED WHEN MODULAR BUILDING IS PLACED ON SITE. PROGRAMMING SHALL INCLUDE:
  - SPECIFY BUILDING OCCUPIED TIMES.
  - PROGRAM AIR HANDLER FAN TO RUN DURING ALL OCCUPIED TIMES PER ENERGY CODE 120.1(i)(1).
  - SPECIFY PRE-OCCUPANCY PURGE ONE HOUR PRIOR TO NORMALLY BEING OCCUPIED PER ENERGY CODE 120.1(i)(2).
- DUCTS: MAY BE CLASS "1" OR "0" FACTORY MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF C.M.C. STANDARDS 80.6-1. EACH PORTION OF A FACTORY MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH C.M.C. STANDARD NO. 8-1 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING. INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDING SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVE AS NORMALLY APPLIED. MATERIAL EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50.
- ALL AIR DISTRIBUTION SYSTEMS DUCTS AND PLENUMS MUST BE INSTALLED, SEALED AND INSULATED AS REQUIRED BY CALIFORNIA ENERGY CODE, 120.4(a).
- INNER LINER OF FLEX DUCTS MUST BE PULLED TIGHT. NO TIGHT BENDS. ALL BENDS MUST BE GREATER THAN ONE DUCT THICKNESS. DUCTS SHALL BE SUPPORTED AT A MAXIMUM OF 4 FT. MAXIMUM SAG BETWEEN SUPPORTS IS 1/2" PER FOOT OF SUPPORT SPACING. A DUCT SUPPORTED AT 4 FT. SHALL HAVE A MAXIMUM SAG OF 2" BETWEEN SUPPORTS. THE INNER CORE OF FLEXIBLE DUCTS MUST BE ATTACHED USING A STAINLESS STEEL WORM DRIVE HOSE CLAMP OR UV-RESISTANT NYLON DUCT TIE FOR CONNECTION.
- MECHANICALLY FASTEN CONNECTIONS BETWEEN METAL DUCTS. ALL JOINTS/CONNECTION MUST BE SEALED AND MADE AIRTIGHT BY USE OF MASTIC, TAPE, AEROSOL SEALANT, OR OTHER DUCT CLOSURE SYSTEM THAT MEETS THE APPLICABLE REQUIREMENTS OF UL 181, UL 181A, UL 181B, OR UL 723. DUCT SYSTEMS SHALL NOT USE CLOTH-BACK, RUBBER ADHESIVE DUCT TAPE REGARDLESS OF UL DESIGNATION. UNLESS IT IS INSTALLED IN COMBINATION WITH MASTIC AND CLAMPS, WHEN MASTIC OR TAPE IS USED TO SEAL OPENINGS GREATER THAN 1/4 INCH, A COMBINATION OF MASTIC AND MESH OR MASTIC AND TAPE MUST BE USED. ENERGY CODE SECTION 120.4.
- COMBINED UNITS SUPPLYING GREATER THAN 2000 CFM REQUIRES DUCT SMOKE DETECTOR FOR AUTO SHUT-DOWN. INTERCONNECT WITH FIRE ALARM SYSTEM 609. UNLESS ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO EXTERIOR, AND TRAVEL DIST DOES NOT EXCEED 100 FT.
- COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. DURING ROUGH INSTALLATION, DURING SHIPMENT OF RELOCATABLE, STORAGE ON CONSTRUCTION SITE, AND UNTIL FINAL STARTUP, ALL DUCTS OPEN ENDS AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER METHODS TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. DUCTS SHALL BE CLEANED DURING CONSTRUCTION AND AT COMPLETION AS NEEDED. (CGBS SEC. 5.504.3).
- EACH SPACE SHALL BE DESIGNED TO HAVE NATURAL VENTILATION OR MECHANICAL VENTILATION THAT IS NOT LESS THAN THE LARGER OF CONDITIONED FLOOR AREA TIMES THE REQUIREMENTS IN THE CALIFORNIA ENERGY CODE TABLE 120.1-A OR 15 TIMES THE EXPECTED NUMBER OF OCCUPANTS.
- PC MANUFACTURER SHALL VERIFY WITH THE SCHOOL DISTRICT THE EXPECTED NUMBER OF OCCUPANTS IN THE CLASSROOM SO THAT THE OUTDOOR VENTILATION RATE FOR MECHANICAL SYSTEMS CAN BE ADEQUATELY ADJUSTED UPON SITE INSTALLATION OF THE BUILDING. PC MANUFACTURER SHALL ALSO CONFIRM WITH HVAC EQUIPMENT MANUFACTURER THAT THE SELECTED EQUIPMENT WILL BE ABLE TO PERFORM TO ACCOMMODATE THE ADDITIONAL OUTDOOR AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING IS LOCATED. AT OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO BUILDING OWNER A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.
- MECHANICAL SYSTEM ACCEPTANCE REQUIREMENTS: THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPE, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT). MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT. A LISTING OF CERTIFIED ATTS CAN BE FOUND AT: WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. PROJECT INSPECTORS WILL BE COLLECTING THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.
- WHEN RESTROOM OPTIONS ARE USED, MECHANICAL EXHAUST SHALL BE PROVIDED PER 2022 C.M.C. TABLE 403.7.

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10/11/2023

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No. S20300  
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

**ENVIROPLEX, INC.**  
477E CARPENTER ROAD  
STOCKTON, CA 95215  
(209) 466-8000

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DIV. OF THE STATE ARCHITECT  
APP: 02-121249-PC  
REVISED FOR  
SS  PLS  ACS  CG   
DATE: 10/24/2023

**MEP Component Anchorage Notes**

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2022 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26, and 30:

- All permanent equipment and components.
- Temporary, movable or mobile equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
- Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

- Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
- Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer, delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

**Piping, Ductwork, and Electrical Distribution System Bracing Notes**

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8, and 2022 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.28.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., HCAI OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP  MD  PP  E Option 1: Detailed on the approved drawings with project specific notes and details.  
 MP  MD  PP  E Option 2: Shall comply with the applicable HCAI Pre-Approval (OPM #) \_\_\_\_\_.

**3 MEP ANCHORAGE & BRACING NOTES**

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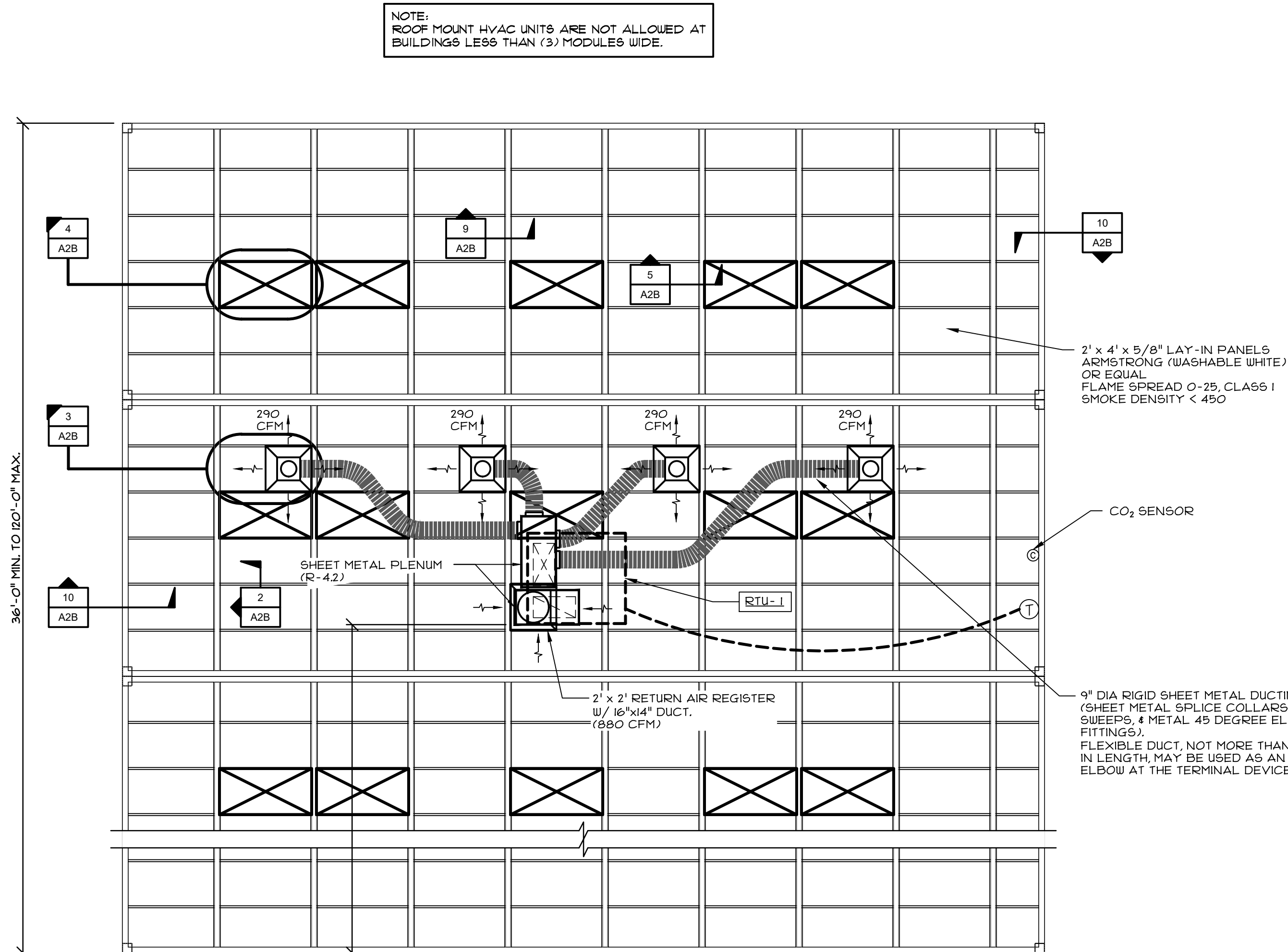
**2 HVAC NOTES AND REQUIREMENTS**

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**A2.0**

**REBID - April 14, 2024**

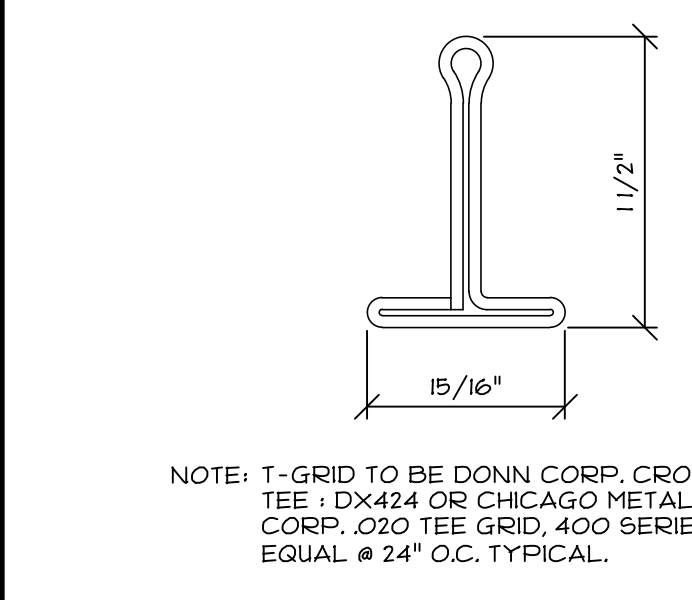
24x40 TO 120x40' P.C.



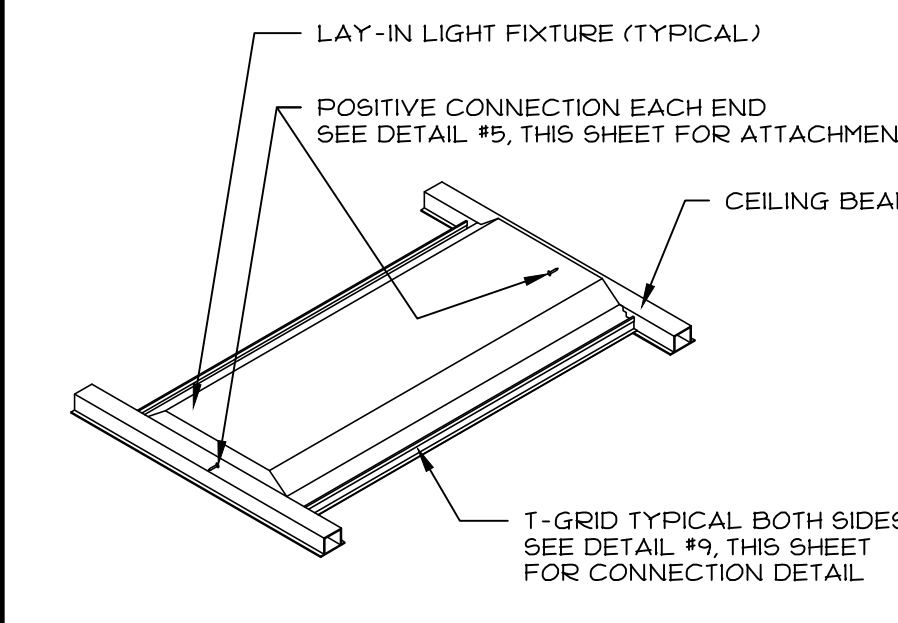
ROOF MOUNTED MECH. EQUIPMENT SHALL BE 10'-0" MIN. FROM ANY BUILDING EDGE IN ANY DIRECTION.

NOTE: CEILING TILE & LIGHTING FIXTURES IN MODULES ARE NOT SUSPENDED. THE BUILDING HAS A FIXED CEILING AND LIGHTING FIXTURE SUPPORT SYSTEM WHICH IS MECHANICALLY FASTENED TO STEEL CEILING BEAMS.

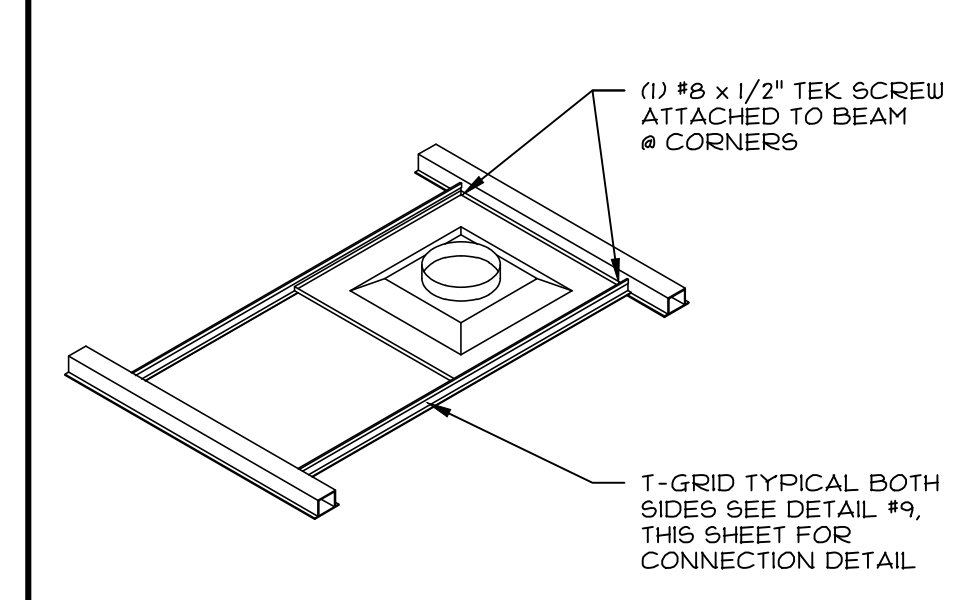
NOTE: REFER TO "LIST OF HVAC EQUIPMENT" TABLE ON SHEET A20 FOR HVAC UNIT SIZE, WEIGHT, HEATING AND COOLING CAPACITIES, EFFICIENCIES, FILTERS, OUTDOOR AIR, AND UNIT QUANTITIES REQUIRED PER BUILDING SIZE.



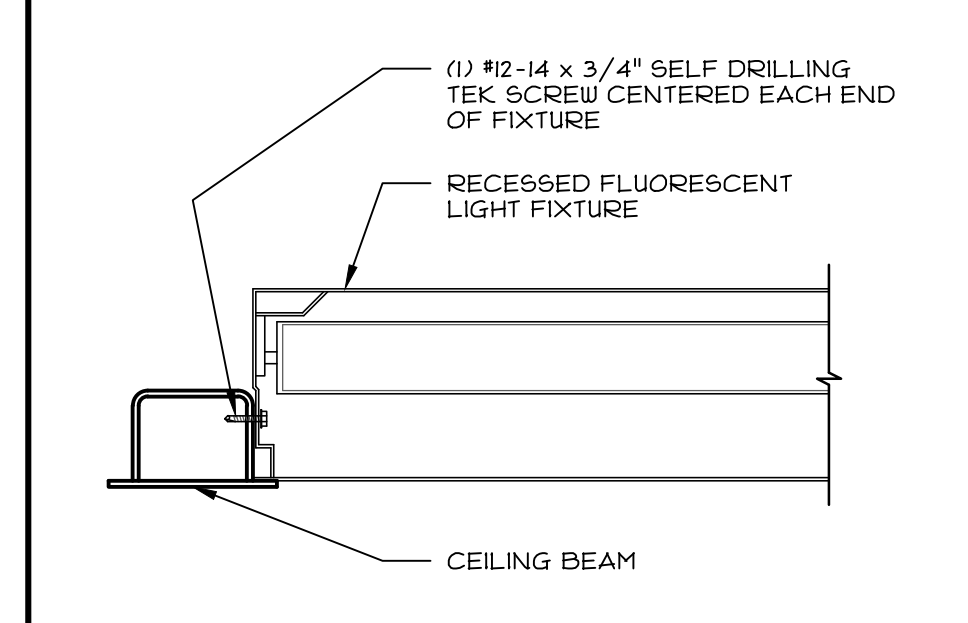
2 TYP. T-GRID SECTION SCALE: FULL



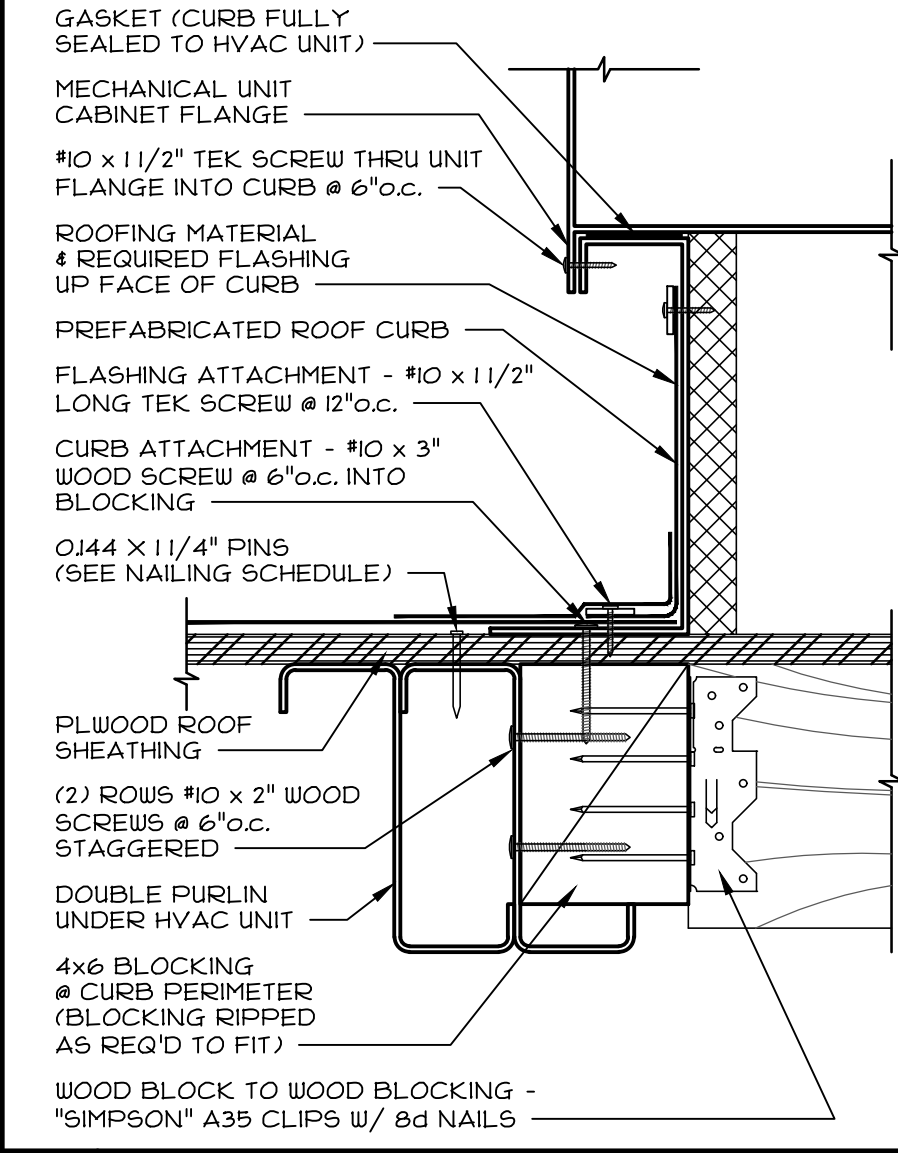
4 LAY-IN LIGHT FIXTURE SCALE: 1/2"=1'-0"



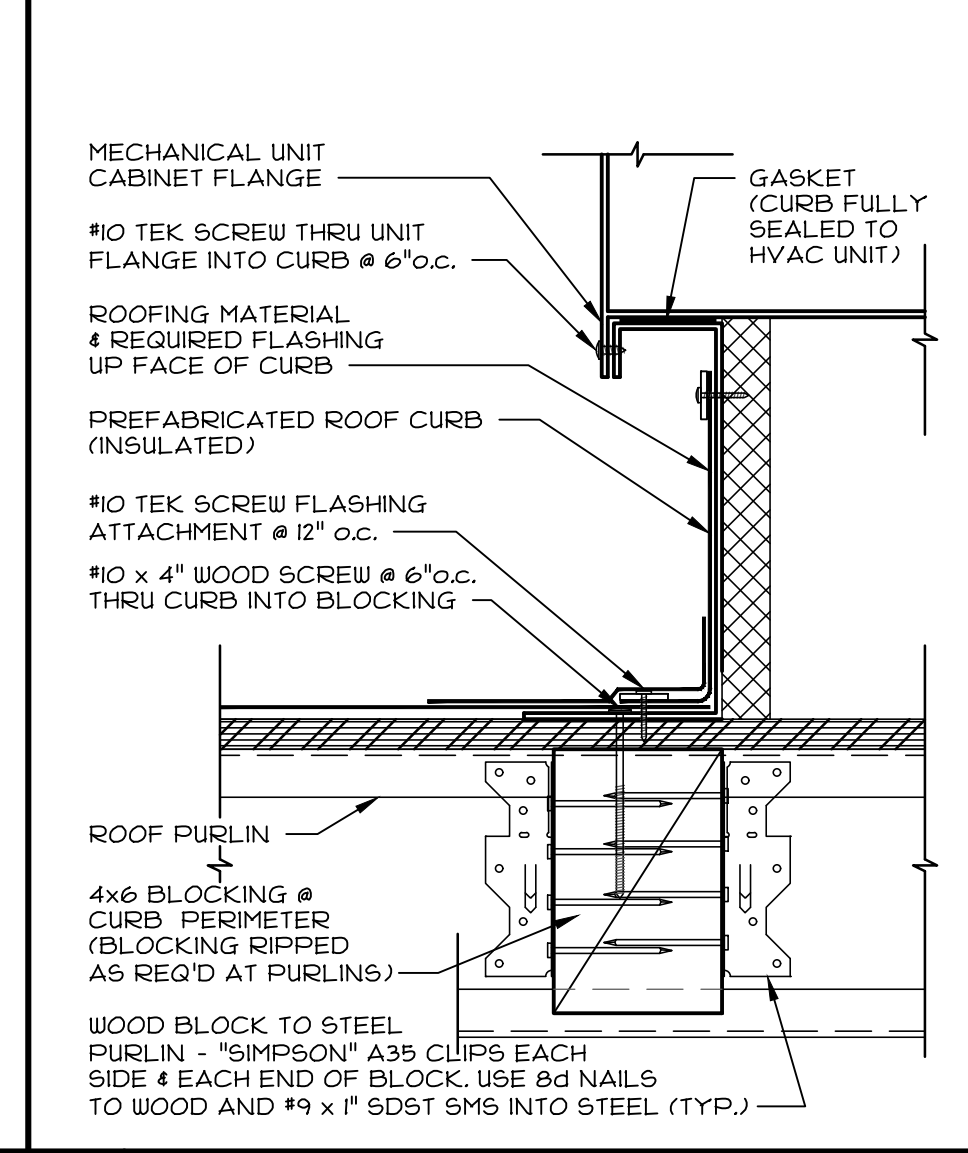
3 SUPPLY AIR REGISTER SCALE: 1/2"=1'-0"



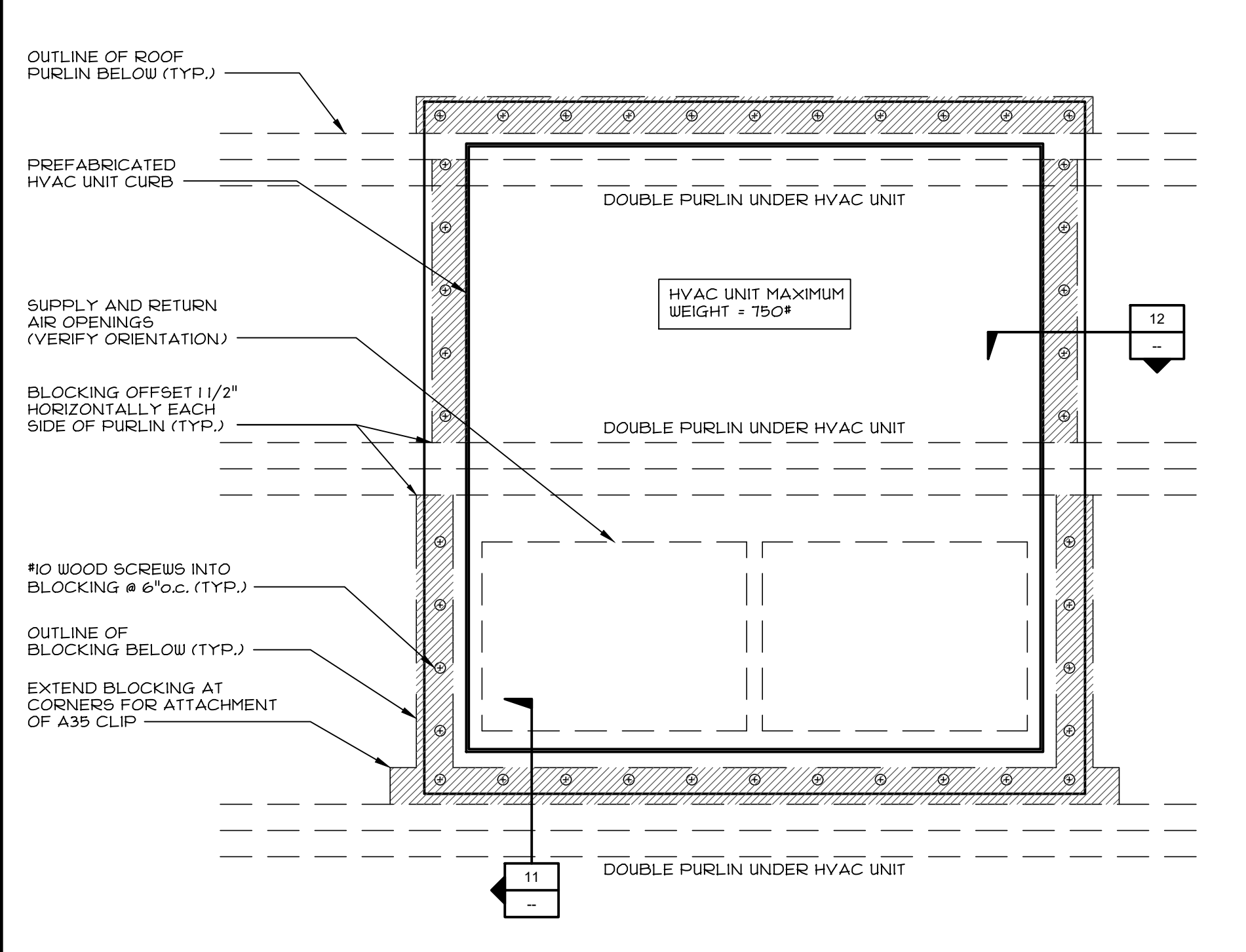
5 LIGHT FIXTURE SUPPORT SCALE: 3"=1'-0"



11 CURB ATTACHMENT SCALE: 3"=1'-0"

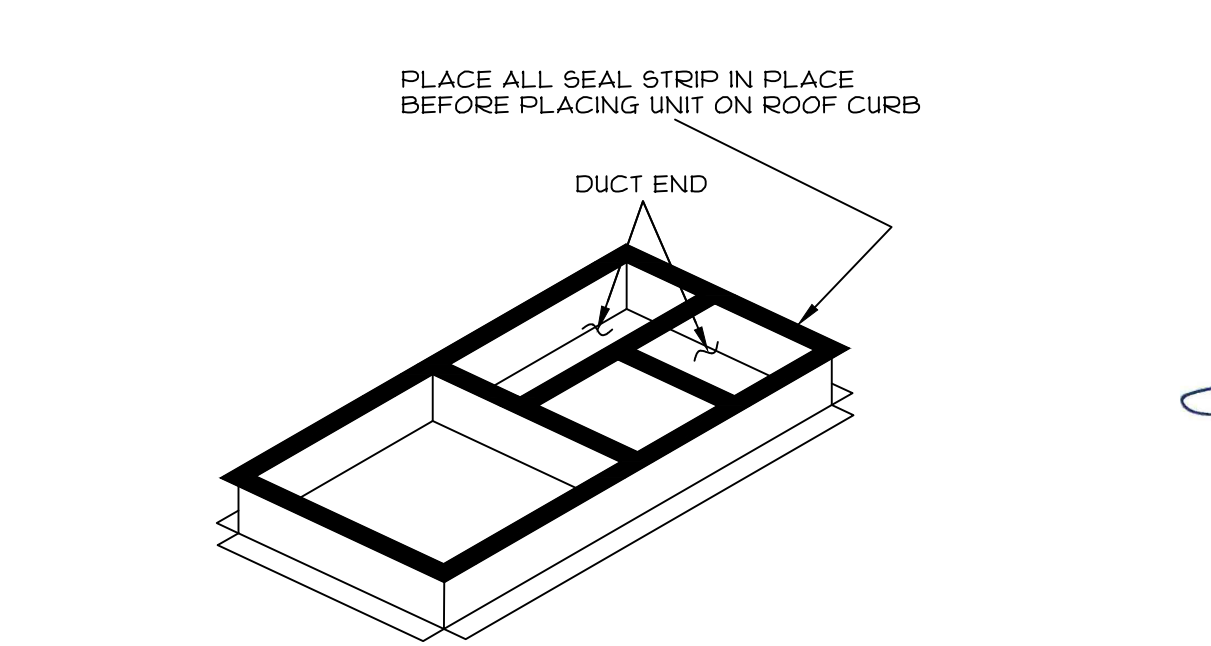


12 CURB ATTACHMENT SCALE: 3"=1'-0"



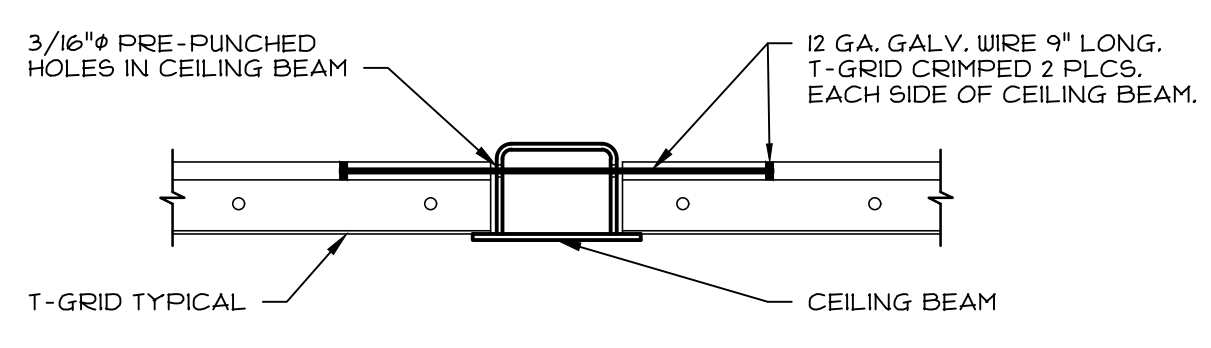
7 PLAN VIEW - TYPICAL HVAC CURB SCALE: 1"=1'-0"

NOTES:  
1. ROOF MOUNT HEAT PUMP: SEE SHEET A20 FOR EQUIPMENT SCHEDULE, NOTES AND REQUIREMENTS.

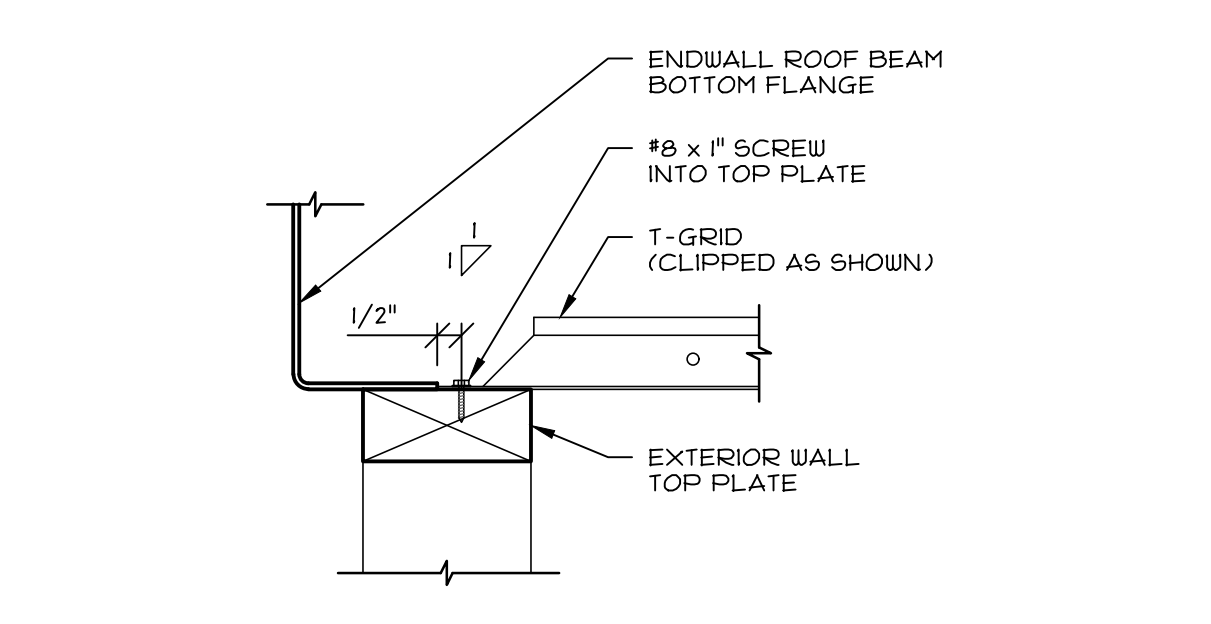


NOTES:  
1) FOR ROOF MOUNTED HVAC UNITS A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT.  
2) MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE HVAC UNIT AND THE CURB.  
3) THE SUPPLY AND RETURN DUCTS SHALL BE ATTACHED TO THE CURB AND MASTIC SHALL BE USED TO SEAL THE DUCTS TO THE CURB.  
4) THE SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALIGN WITH THE HVAC UNIT.

13 SEALED ROOF CURB REQUIREMENTS SCALE: NONE



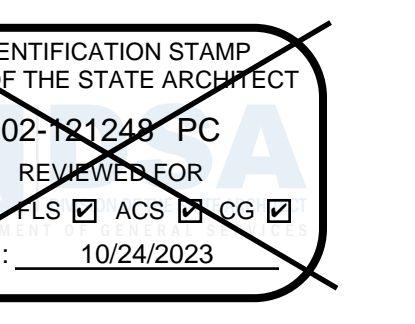
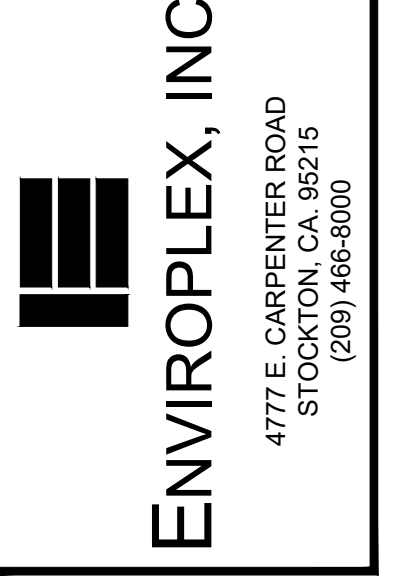
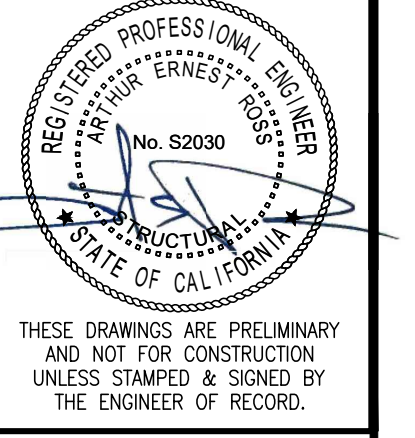
9 T-GRID CONNECTION DETAIL SCALE: 3"=1'-0"



10 T-GRID CONNECTION DETAIL SCALE: 3"=1'-0"

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1 ALT. ADJUSTABLE "ROOF MOUNT HVAC" MECHANICAL & REFLECTED CEILING PLAN SCALE: 1/4"=1'-0"



ROBERTS FERRY ES  
at  
ROBERTS FERRY UESD

"ROOF MOUNT HVAC UNIT" MECHANICAL & REFLECTED CEILING PLANS, HVAC ROOF ATTACH., DETAILS, HVAC SPECIFICATIONS

REV / DATE:	BY:
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DATE:	

7 ALT. ADJUSTABLE "ROOF MOUNT HVAC" MECHANICAL & REFLECTED CEILING PLAN SCALE: 1/4"=1'-0"

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24"x40" TO 120"x40" P.C.

NOTE:  
ONLY APPLICABLE CAL-GREEN MANDATORY MEASURES TO THE ENVIROPLEX MODULAR BUILDING ARE LISTED BELOW. FOR A COMPLETE LIST OF MEASURES REQUIRED FOR THE ENTIRE CONSTRUCTION PROJECT, REFER TO DSA DOCUMENT GL-4.

- WATER CLOSETS  
THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.
- URINALS  
THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 0.125 GALLONS PER FLUSH FOR FLOOR MOUNTED URINALS AND 0.125 GALLONS PER FLUSH FOR WALL MOUNTED URINALS.
- INDOOR WATER USE  
LAVATORY FAUCETS - 0.5 GPM  
KITCHEN FAUCETS - 1.8 GPM @ 60 p.s.i.  
GRAVITY TANK WATER CLOSET - 1.28 GAL/FLUSH  
FLUSHMETER TANK WATER CLOSET - 1.28 GAL/FLUSH  
FLUSHMETER VALVE WATER CLOSET - 1.28 GAL/FLUSH
- EXTERIOR DOOR PROTECTION  
PRIMARY EXTERIOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND AND PERPENDICULAR TO SUCH OPENINGS  
PLUS AT LEAST ONE OF THE FOLLOWING:  
1. AN INSTALLED AWNING AT LEAST 4 FEET IN DEPTH.  
2. THE DOOR IS PROTECTED BY A ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.  
3. NOT USED  
4. OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION.
- CONSTRUCTION WASTE MANAGEMENT  
A MINIMUM OF 95% OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE SHALL BE RECYCLED AND/OR SALVAGED FOR REUSE.  
  
CONSTRUCTION WASTE MANAGEMENT PLAN SHALL:  
1) IDENTIFY WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL.  
2) DETERMINE OF WASTE MATERIALS WILL BE SORTED ON-SITE OR BULK MIXED.  
3) IDENTIFY DIVERSION FACILITIES WHERE COLLECTED WASTE MATERIAL WILL BE TAKEN.  
4) SPECIFY THE AMOUNT OF WASTE DIVERTED CALCULATED BY WEIGHT OR BY VOLUME.  
  
UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL.
- COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT  
AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND 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 COLLECT IN THE SYSTEM.
- CARPET SYSTEMS  
ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET AT LEAST ONE OF THE TESTING AND PRODUCT REQUIREMENTS.  
1. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM.  
2. COMPLIANT WITH THE VOC-EMISSION LIMITS AND TESTING REQUIREMENTS SPECIFIED IN THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS CDPH STANDARD METHOD V.1.1 OR SPECIFICATION 01350).  
3. NSF/ANSI 140 AT THE GOLD LEVEL OR HIGHER.  
4. SCIENTIFIC CERTIFICATIONS SYSTEMS SUSTAINABLE CHOICE, OR  
5. COMPLIANT WITH THE CALIFORNIA COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CA-CHPS) CRITERIA INTERPRETATION FOR EQ 2.2 DATED JULY 2012 AND LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE.
- CARPET CUSHION  
ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM.
- CARPET ADHESIVE  
ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 5.504.4.1.
- COMPOSITE WOOD PRODUCTS  
HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDINGS SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD (17 COR 93120 ET SEQ.). THOSE MATERIALS NOT EXEMPTED UNDER THE ATCM MUST MEET THE SPECIFIED EMISSION LIMITS, AS SHOWN IN TABLE 5.504.4.5.

Building size	Group 1 - Climate Zones; 1*, 3,5,16 (Factor A = 1.27)			Group 2 - Climate Zones; 2,4,6-14 (Factor A = 1.63)			Group 3 - Climate zone; 15 (Factor A = 2.46)		
	Min. PV System Capacity (kw)	Min. Battery Energy Cap (kWh)	Min. Battery Power Cap (kw)	Min. PV System Capacity (kw)	Min. Battery Energy Cap (kWh)	Min. Battery Power Cap (kw)	Min. PV System Capacity (kw)	Min. Battery Energy Cap (kWh)	Min. Battery Power Cap (kw)
24 x 40	1.22			1.46			2.36		
36 x 40	1.83			2.35			3.54		
48 x 40	2.44			3.13			4.72		2.17
60 x 40	3.05			3.92			5.9		2.72
72 x 40	3.66			4.69	9.01	2.16	7.08	13.99	3.26
84 x 40	4.27	8.19	1.96	5.46	10.61	3.43	8.27	15.86	3.8
96 x 40	4.88	9.36	2.24	6.26	12.01	3.88	9.45	18.13	4.35
108 x 40	5.49	10.53	2.52	7.04	13.41	4.34	10.63	20.39	4.9
120 x 40	6.1	11.7	2.8	7.83	14.81	4.79	11.81	22.66	5.45

- NOTES:  
1) THE PHOTOVOLTAIC SYSTEM IS NOT DESIGNED NOR APPROVED AS PART OF THIS PC. IF REQUIRED, A COMPLETE PHOTOVOLTAIC SYSTEM DESIGN SHALL BE SUBMITTED FOR DSA APPROVAL FOR THE SITE SPECIFIC APPLICATION.  
2) SITE SPECIFIC DESIGN AND INSTALLATION OF PHOTOVOLTAIC SYSTEM IS NOT BY ENVIROPLEX.

**4 PV & BATTERY GUIDELINE - BASED ON BUILDING SIZE**

A) MINIMUM SOLAR ZONE AREA BASED ON TOTAL ROOF AREA (NON-SHADED CONDITIONS):

- THE SOLAR ZONE MUST HAVE A TOTAL AREA THAT IS NO LESS THAN 15 PERCENT OF THE TOTAL ROOF AREA AFTER SUBTRACTING ANY AREA OF THE ROOF THAT IS COVERED BY A SKYLIGHT.
- THE TOTAL AREA OF THE SOLAR ZONE MAY BE COMPOSED OF MULTIPLE SUB-AREAS. NO DIMENSION OF A SUB-AREA CAN BE LESS THAN FIVE FEET. EACH SUB-AREA MUST BE AT LEAST 80 SQUARE FEET.

B) SOLAR READY ROOF AREA REQUIREMENT PER BUILDING SIZE:

Building size	Building area (sf)	Roof Area		minimum solar zone area required (sf)
		Max. potential overhangs (sf)	total (sf)	
24 x 40	960	863	1443	217
36 x 40	1440	1241	2160	324
48 x 40	1920	1620	2880	432
60 x 40	2400	2000	3600	540
72 x 40	2880	2380	4320	648
84 x 40	3360	2760	5040	756
96 x 40	3840	3140	5760	864
108 x 40	4320	3520	6480	972
120 x 40	4800	3900	7200	1080

C) MINIMUM SOLAR ZONE AREA BASED ON POTENTIAL SOLAR ZONE (SHADED CONDITIONS):

- THE MINIMUM REQUIRED SOLAR ZONE AREA MAY BE REDUCED IF THE BUILDING SITE IS SHADED BY OBJECTS THAT ARE NOT PART OF THE BUILDING ITSELF AND THERE IS NO UN-SHADED AREA THAT COULD ACCOMMODATE THE FULL SOLAR ZONE.
- THE POTENTIAL SOLAR ZONE IS DEFINED AS THE TOTAL AREA ON ROOF, OVERHANG, ROOF OR OVERHANG OF A STRUCTURE WITHIN 250 FEET OF THE BUILDING, OR ON A COVERED PARKING STRUCTURE INSTALLED WITH THE BUILDING THAT HAS ANNUAL SOLAR ACCESS OF 70 PERCENT OR GREATER.
- IF THE POTENTIAL SOLAR ZONE IS SMALLER THAN 15 PERCENT OF THE ROOF AREA OF THE BUILDING EXCLUDING ANY SKYLIGHTS, THEN THE SOLAR ZONE CAN BE REDUCED TO HALF THE AREA OF THE POTENTIAL SOLAR ZONE. IF THE ROOF IS SHADED SUCH THAT THERE IS NO POTENTIAL SOLAR ZONE AREA, THEN NO SOLAR ZONE IS REQUIRED.

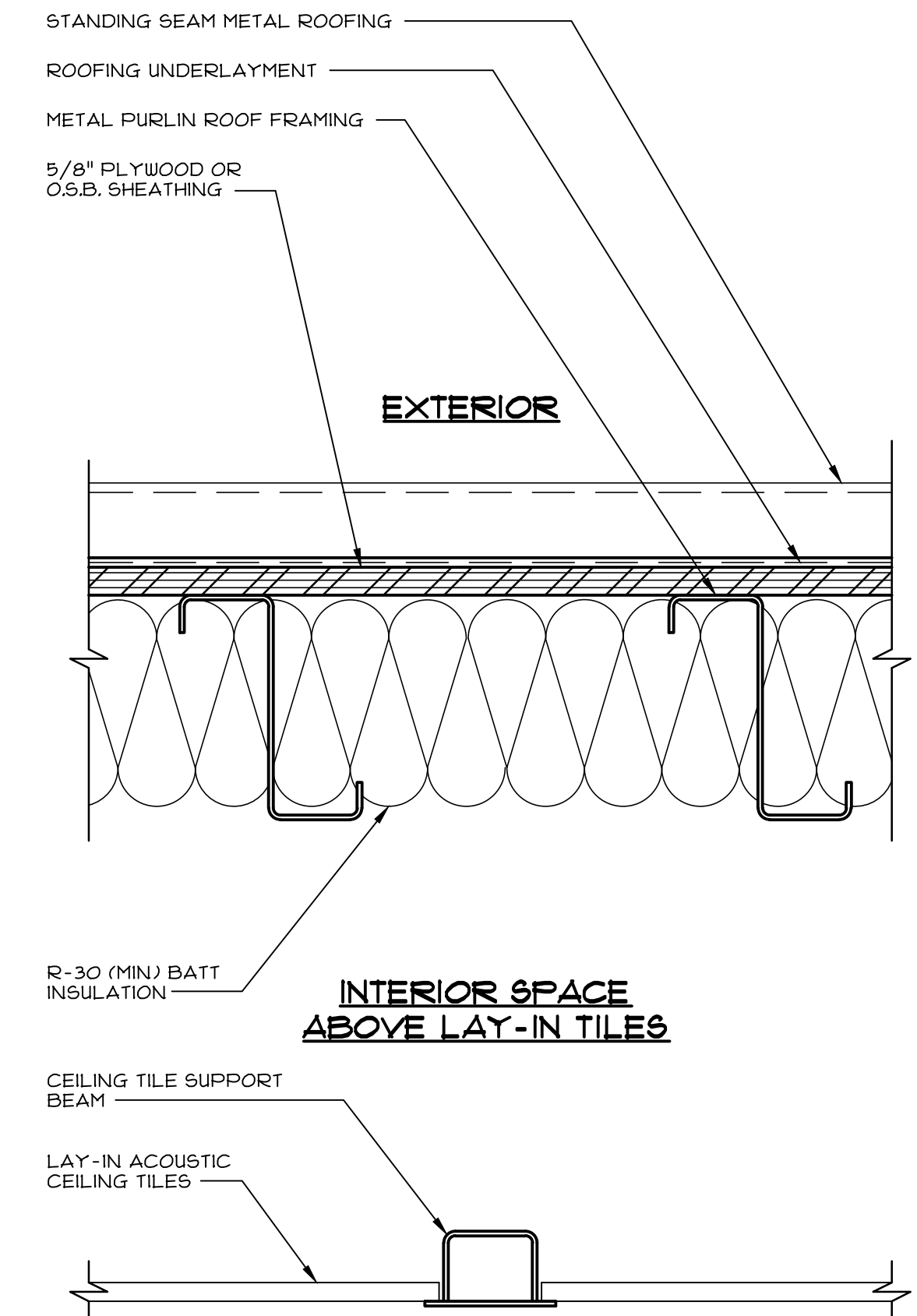
D) SOLAR ZONE ORIENTATION:

- IF THE SOLAR ZONE IS LOCATED ON A STEEP-SLOPED ROOF WITH A RATIO OF RISE TO RUN OF GREATER THAN 2:12, THEN THE ROOF MUST BE ORIENTED BETWEEN 110 DEGREES AND 270 DEGREES OF TRUE NORTH.
- IF A SOLAR ZONE IS LOCATED ON A LOW-SLOPED ROOF WITH A RATIO OF RISE TO RUN LESS THAN 2:12, THE ORIENTATION REQUIREMENTS DO NOT APPLY.

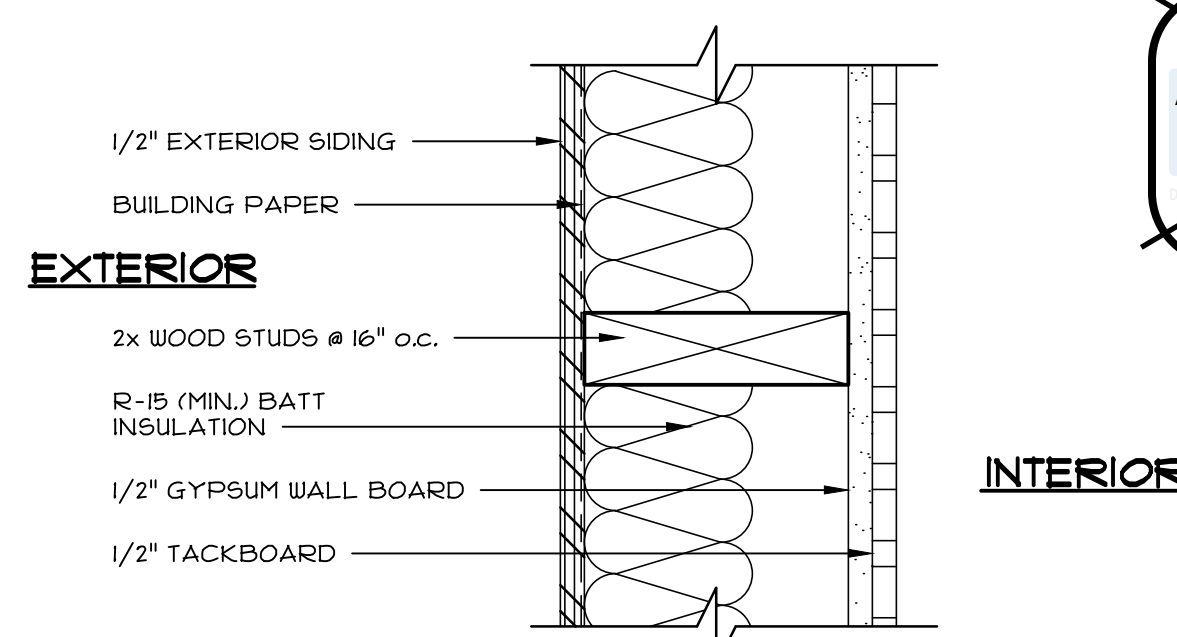
E) ALTERNATIVE SOLAR ZONE LOCATION:

- THE SOLAR ZONE CAN BE LOCATED AT ANY OF THE FOLLOWING LOCATIONS: ROOF OF ANOTHER STRUCTURE LOCATED WITHIN 250 FEET OF THE PRIMARY BUILDING, OVERHANG OF ANOTHER STRUCTURE WITHIN 250 FEET OF THE PRIMARY BUILDING, OR COVERED PARKING INSTALLED WITH THE BUILDING PROJECT.
- SOLAR PANELS ARE NOT TO EXCEED 4.0 PSF AND ARE NOT TO OCCUR ON BUILDING OVERHANGS. SOLAR PANELS MUST BE INACCESSIBLE PER CBC 1607A.13.5.

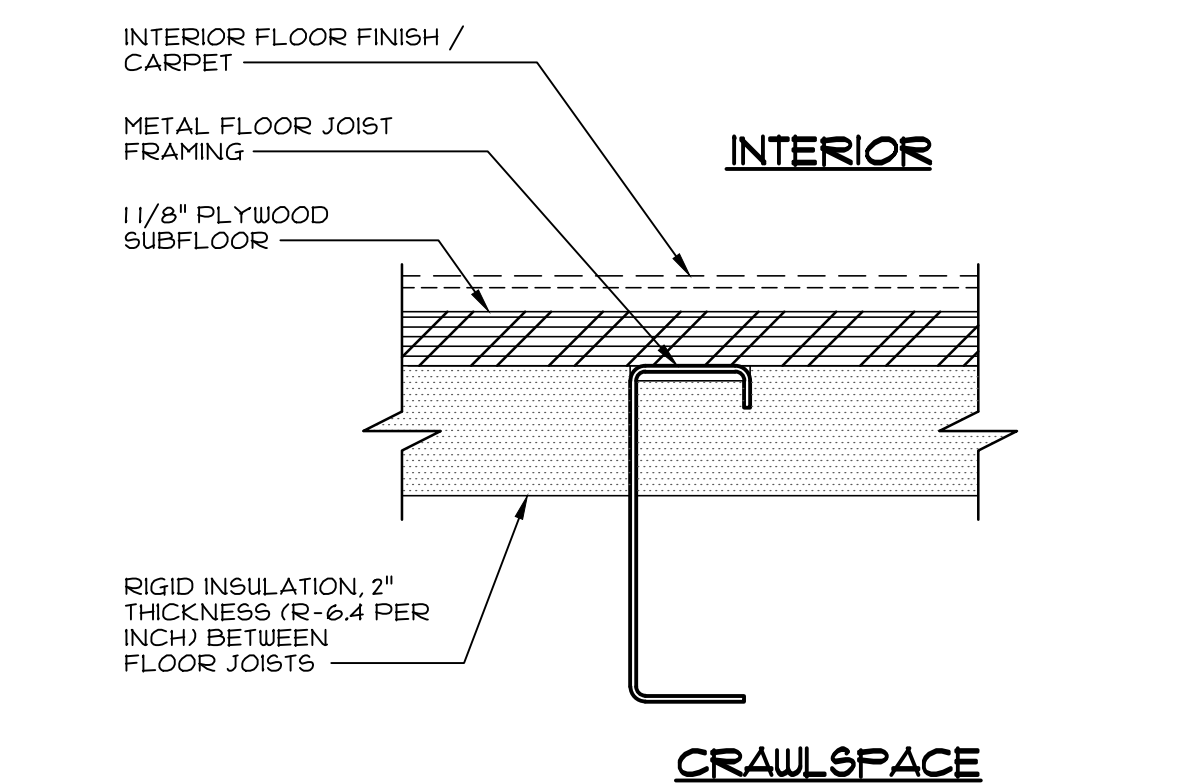
**6 SOLAR READY REQUIREMENTS**



**1 TYP. ENVELOPE - ROOF**  
SCALE: 3/4"=1'-0"



**2 TYP. ENVELOPE - WALL**  
SCALE: 3/4"=1'-0"



**3 TYP. ENVELOPE - PLY. FLOOR**  
SCALE: 3/4"=1'-0"

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**CYS**  
STRUCTURAL ENGINEERS INC.  
4945 Sycamore Park Drive, Suite 605  
STOCKTON, CA 95215  
(510) 962-1546 FAX  
www.cyseng.com

10/11/2023

REGISTERED PROFESSIONAL ENGINEER  
ARCHITECT  
No. S20300  
STATE OF CALIFORNIA

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**ENVIROPLEX, INC.**  
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(209) 466-6000

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REVIEWED FOR  
SS  PLS  ACS  CG   
DATE: 10/24/2023

**ROBERTS FERRY ES**  
at  
**ROBERTS FERRY UESD**

**GREEN BUILDING STANDARDS**

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

**AGB**

**5 CAL-GREEN MANDATORY MEASURES**

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**REBID - April 14, 2024**

24"x40" TO 120"x40" P.C.



STATE OF CALIFORNIA  
**Outdoor Lighting**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-1  
Project Name: Standard 36x40 PC Report Page: (Page 1 of 7)  
Project Address: C2.11 Date Prepared: 9/12/2023

**A. GENERAL INFORMATION**

01 Project Location (city) [reference city - Red Bluff] 04 Total Illuminated Hardcape Area (ft²) 0  
02 Climate Zone 11  
03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):  
 12-01: Very Low - Undeveloped Parkland  12-2: Moderate - Urban Centers  12-4: High - Must be reviewed by CA Energy Commission for Approval  
 12-1: Low - Rural Areas  12-3: Moderately High - Urban Areas  
05 Occupancy Types within Project  
 Classroom

**B. PROJECT SCOPE**  
This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)(2) / 180.2(b)(4) for alterations.  
My Project Consists of:  
01  New Lighting System Must Comply with Allowances from 140.7 / 170.2(e)6  
 Altered Lighting System Is your alteration increasing the connected lighting load (Watts)?  Yes  No  
03  % of Existing Luminaires Being Altered¹ Sum Total of Luminaires Being Added or Altered 04 Calculation Method  
 < 10%  >= 10% and < 50%  >= 50%  
Please proceed to Table F, Outdoor Lighting Fixture Schedule to define the project's luminaires.  
¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

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STATE OF CALIFORNIA  
**Outdoor Lighting**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-1  
Project Name: Standard 36x40 PC Report Page: (Page 2 of 7)  
Project Address: C2.11 Date Prepared: 9/12/2023

**C. COMPLIANCE RESULTS**  
Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.  
Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)(2) / 180.2(b)(4):

01	02	03	04	05	06	07	08	09	10
General Hardcape Allowance (140.7(d)1 / 170.2(e)6) (See Table I)	Per Application (140.7(i)5 / 170.2(e)6) (See Table J)	Sales Frontage (140.7(j)2) (See Table K)	Ornamental (140.7(i)2 / 170.2(e)6) (See Table L)	Per Specific Area (140.7(i)2 / 170.2(e)6) (See Table M)	Existing Power Allowance (141.0(b)(2) / 180.2(b)(4)w) (See Table N)	Total Allowed (Watts)	Total Actual (Watts)	07 must be >= 08	
0	---	---	---	26	OR	---	26	2	26
Shielding Compliance (See Table G for Details)								N/A	
Controls Compliance (See Table H for Details)								COMPLIES	

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

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

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STATE OF CALIFORNIA  
**Outdoor Lighting**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-4  
Project Name: Standard 36x40 PC Report Page: (Page 3 of 7)  
Project Address: C2.11 Date Prepared: 9/12/2023

**F. OUTDOOR LIGHTING FIXTURE SCHEDULE**  
For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the table below. For altered lighting systems using the Existing Power method per 141.0(b)(2) only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (i.e., existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire¹	How is Wattage determined	Total Number Luminaires²	Luminaire Status³	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output / 130.2(b) / 160.5(c)¹¹	Field Inspector
B	(1) 13w Compact Fluorescent Twin 2 Pin	13	Mfr. Spec	2	New		26	NA < 6200 lumens	Pass
Total Design Watts:							26		

¹ NOTES: Selections with a \* requires a note in the space below explaining how compliance is achieved.  
² For Luminaire lighting a fixture: EXCEPTION 1 to 180.2(b)  
³ FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)  
⁴ For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.  
⁵ Select "New" for new luminaires in a new outdoor lighting project, or for additional luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing to be Replaced" for existing luminaires which are being removed and replaced as part of the project scope.  
⁶ Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b) / 160.5(c)

**G. SHIELDING REQUIREMENTS (BUG)**  
This section does not apply to this project.

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STATE OF CALIFORNIA  
**Outdoor Lighting**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-1  
Project Name: Standard 36x40 PC Report Page: (Page 4 of 7)  
Project Address: C2.11 Date Prepared: 9/12/2023

**H. OUTDOOR LIGHTING CONTROLS**  
This table demonstrates 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 reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.  
Outdoor lighting for residential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit.  
Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings:

01	02	03	04	05
Area Description	Shut-Off 130.2(c)(3) / 160.5(c)	Auto-Schedule 130.2(c)(3) / 160.5(c)	Motion Sensor 130.2(c)(3) / 160.5(c)	Field Inspector
Exterior wall mount light	Photocell/remote	Provided	NA: Not permitted by HBLS	Pass

¹ FOOTNOTES: Test has been observed/verified, please refer to Table 160.5.A to confirm compliance with the specific light source technologies listed.  
² Authority having jurisdiction may ask for cut sheets or other documentation to confirm compliance with light sources.  
³ Recycled luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are exempted from II and III.

**I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))**  
This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardcape Allowance is per Table 140.7-A / Table 170.2-E while "Use it or lose it" Allowances are per Table 140.7-B / Table 170.2-F. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.  
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

01	02	03	04	05	06	07	08	09	10
Area Description	Specific Area Type per Table 140.7-B	Specific Area (ft²)	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Outdoor Lighting	Building facade	960	0.2	163.2	B	13	2	26	26
Total Design Watts for this Area:							26		
Total Allowance (Watts) All Areas:							26		

¹ FOOTNOTES: See Table 140.7-B / Table 170.2-F for rules for calculating the specific area (ft²) for these additional lighting allowances.  
² For luminaires indicated in Table F as lines, wattage in column 07 is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

**N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)**  
This section does not apply to this project.

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STATE OF CALIFORNIA  
**Outdoor Lighting**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-4  
Project Name: Standard 36x40 PC Report Page: (Page 5 of 7)  
Project Address: C2.11 Date Prepared: 9/12/2023

**K. LIGHTING ALLOWANCE: SALES FRONTAGE**  
This section does not apply to this project.

**L. LIGHTING ALLOWANCE: ORNAMENTAL**  
This section does not apply to this project.

**M. LIGHTING ALLOWANCE: PER SPECIFIC AREA**  
This table includes areas using the wattage allowance per specific area from Table 140.7-B / Table 170.2-F. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
Area Description	Specific Area Type per Table 140.7-B	Specific Area (ft²)	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Outdoor Lighting	Building facade	960	0.2	163.2	B	13	2	26	26
Total Design Watts for this Area:							26		
Total Allowance (Watts) All Areas:							26		

¹ FOOTNOTES: See Table 140.7-B / Table 170.2-F for rules for calculating the specific area (ft²) for these additional lighting allowances.  
² For luminaires indicated in Table F as lines, wattage in column 07 is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

**N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)**  
This section does not apply to this project.

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STATE OF CALIFORNIA  
**Outdoor Lighting**  
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**CERTIFICATE OF COMPLIANCE** NRCC-LTO-4  
Project Name: Standard 36x40 PC Report Page: (Page 6 of 7)  
Project Address: C2.11 Date Prepared: 9/12/2023

**O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.  
Form/Title

NRCC-LTO-4 - Must be submitted for all buildings.

**P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/html24/attcp/providers.html>  
Form/Title

NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.  
Exterior wall mount light;

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STATE OF CALIFORNIA  
**Outdoor Lighting**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-1  
Project Name: Standard 36x40 PC Report Page: (Page 7 of 7)  
Project Address: C2.11 Date Prepared: 9/12/2023

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
I certify that this Certificate of Compliance documentation is accurate and complete.  
Documentation Author Name: Ludi Esquivel Documentation Author Signature:  
Company: Enviroplex, Inc. Signature Date: 9/12/2023  
Address: 4777 E. Carpenter Road (DAY HERE Certification identification if applicable)  
City/State: Stockton, CA 95215 Phone: (209) 466-8000

**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 assemblies 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 energy features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.  
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for this 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 for building provides to the building owner at occupancy.  
Responsible Designer Name: Ludi Esquivel Responsible Designer Signature:  
Company: Enviroplex, Inc. Date Signed: 2023-09-12  
Address: 4777 E. Carpenter Road City/State: Stockton, CA 95215 Phone: (209) 466-8000

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STATE OF CALIFORNIA  
**Outdoor Lighting**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-4  
Project Name: Standard 36x40 PC Report Page: (Page 8 of 7)  
Project Address: C2.11 Date Prepared: 9/12/2023

**Q. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.  
Form/Title

NRCC-LTO-4 - Must be submitted for all buildings.

**R. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/html24/attcp/providers.html>  
Form/Title

NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.  
Exterior wall mount light;

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STATE OF CALIFORNIA  
**Outdoor Lighting**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-4  
Project Name: Standard 36x40 PC Report Page: (Page 9 of 7)  
Project Address: C2.11 Date Prepared: 9/12/2023

**S. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.  
Form/Title

NRCC-LTO-4 - Must be submitted for all buildings.

**T. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/html24/attcp/providers.html>  
Form/Title

NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.  
Exterior wall mount light;

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**CYS** STRUCTURAL ENGINEERS, INC.  
1840 Natomas Park Drive, Suite 600  
Stockton, CA 95215  
(209) 940-2400 (209) 940-1546 Fax  
www.cyspe.com

10/11/2023

REGISTERED PROFESSIONAL ENGINEER  
ARCHITECT  
No. S23030  
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

**ENVIROPLEX, INC.**  
4777 E. CARPENTER ROAD  
STOCKTON, CA 95215  
(209) 466-8000

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-121249 PC  
REVIEWED FOR  
SS [ ] PLS [ ] ACS [ ] CG [ ]  
DATE: 10/24/2023

**ROBERTS FERRY ES**  
at  
**ROBERTS FERRY UESD**

**ENERGY COMPLIANCE**

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

PRE-CHECK (PC) DOCUMENT  
Code: 2022 CBC  
A separate project application for construction is required.

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**EN3**

24"x40" TO 120"x40" P.C.

**REBID - April 14, 2024**

STATE OF CALIFORNIA  
**Electrical Power Distribution**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-ELC-E  
(Page 1 of 6)  
Project Name: Standard 36x40 PC  
Report Page: 1  
Date Prepared: 9/12/2023

**A. GENERAL INFORMATION**  
This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Project Location (city)	Reference City - Red Bluff	Climate Zone		11		
		Occupancy Types Within Project		Classroom		

**B. PROJECT SCOPE**  
This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/Description	Scope of Work <sup>1</sup>	Rating <sup>2</sup> (kVA)	Utility Provided Metering System Exception to 130.5(a) / 160.6(a) <sup>3</sup>	System subject to CA Elec Code Article 517 Exception to 130.5(a) and (b) <sup>4</sup>	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
Panel A	New electrical service equipment and meter	19	<input type="checkbox"/>	<input type="checkbox"/>	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standard based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/160.3, 130.1/160.5, and 130.3/160.5, and mechanical, indoor lighting, and sign lighting. Certificate of Compliance documents will indicate when demand response controls are required.	<input type="checkbox"/>

**FOOTNOTES:** Adding only new feeders and branch circuits triggers Voltage Drop 130.5(a)/160.6(a), no other requirements from 130.5/160.6 are required.  
<sup>1</sup> If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.  
<sup>2</sup> Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

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STATE OF CALIFORNIA  
**Electrical Power Distribution**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-ELC-E  
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Project Name: Standard 36x40 PC  
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**C. COMPLIANCE RESULTS**  
This table includes results calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03	04	05	06
Service Electrical Metering 130.5(a)/160.6(a) (See Table F)	Separation for Monitoring 130.5(b) / 160.6(b) (See Table G)	Voltage Drop 130.5(c) / 160.6(c) (See Table H)	Controlled Receptacles 130.5(d) / 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	Compliance Results
Yes	Yes	Yes	Yes	Yes	COMPLIES

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

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

**F. SERVICE ELECTRICAL METERING**  
This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with 130.5(a) / 160.6(a). For multifamily occupancies, submetered systems that provide power to common use areas must meet the following metering requirements. Submetered systems providing power to dwelling units do not.

01	02	03	04	05
Electrical Service Designation/Description	Rating <sup>1</sup> (kVA)	Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period
Panel A	19	15	15	AS

**FOOTNOTES:** If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.

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STATE OF CALIFORNIA  
**Electrical Power Distribution**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-ELC-E  
(Page 3 of 6)  
Project Name: Standard 36x40 PC  
Report Page: 3  
Date Prepared: 9/12/2023

**G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING**  
This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b) / 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05
Load Type per Table 130.5-B <sup>1</sup>	Minimum Required Separation of Load per Table 130.5-B	Compliance Method <sup>2</sup>	Location of Requirements in Construction Documents	Field Inspector
				Pass / Fail

**Panel A**

Lighting including exit, egress and exterior	not required	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	N/A	<input type="checkbox"/>	<input type="checkbox"/>
HVAC systems and components	not required	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	N/A	<input type="checkbox"/>	<input type="checkbox"/>
Plug Loads and appliances less than 25kVA	not required	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	N/A	<input type="checkbox"/>	<input type="checkbox"/>

**FOOTNOTES:** If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.

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STATE OF CALIFORNIA  
**Electrical Power Distribution**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-ELC-E  
(Page 4 of 6)  
Project Name: Standard 36x40 PC  
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Date Prepared: 9/12/2023

**H. VOLTAGE DROP**  
This table includes 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) / 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)(2)(A) / 160.2(b)(2)(A).

01	02	03	04	05
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations <sup>1</sup>	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector
Panel A	Voltage drop less than 5% <input type="checkbox"/> Permitted by CA Elec Code (Exception to 130.5(c)) <sup>2</sup>	In construction documents	N/A	<input type="checkbox"/>

**FOOTNOTES:** Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

**I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES**  
This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(d) / 160.6(d). Both controlled and uncontrolled receptacles must be provided in office areas, labs, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	07
Room name or Description	Location / Type of Controlled Receptacles <sup>1</sup>	Shut-Off Controls	Demand Responsive Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector
Panel A	50 % are controlled receptacle (hotel/motel room)	Other <sup>2</sup>	N/A. Building does not require demand responsive lighting controls per 130.12(c)	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>

**FOOTNOTES:** Receptacles dedicated to refrigerators and water dispensers in kitchens, located a minimum of 6ft above the floor specifically for clocks, network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms, circuits rated more than 20 Amps, or connected to a UPS that are intended to be in continuous use and are marked to differentiate them from other receptacles or circuits are excepted from the requirements.

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STATE OF CALIFORNIA  
**Electrical Power Distribution**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-ELC-E  
(Page 5 of 6)  
Project Name: Standard 36x40 PC  
Report Page: 5  
Date Prepared: 9/12/2023

**J. ELECTRIC READY BUILDINGS**  
This section does not apply to this project.

**K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
Selections have been made based on information provided in the building inspector during construction and can be found online.

Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

Form/Title

NRCC-ELC-E - Must be submitted for all buildings

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STATE OF CALIFORNIA  
**Electrical Power Distribution**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-ELC-E  
(Page 6 of 6)  
Project Name: Standard 36x40 PC  
Report Page: 6  
Date Prepared: 9/12/2023

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Luis Esquivel  
 Company: Enviroplex, Inc.  
 Address: 4777 E. Carpenter Road  
 City/State/Zip: Stockton, CA 95215  
 Phone: (209) 466-8000

Signature Date: 9/12/2023  
 Signature: [Signature]

**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 1 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 of the California Code of Regulations.
- 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.
- I warrant that a completed signed copy of this Certificate of Compliance shall be made available to the building permit holder, 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 a builder provides to the building owner at occupancy.

Responsible Designer Name: Luis Esquivel  
 Company: Enviroplex, Inc.  
 Address: 4777 E. Carpenter Road  
 City/State/Zip: Stockton, CA 95215  
 Phone: (209) 466-8000

Signature Date: 2023-09-12  
 Signature: [Signature]

Generated Date/Time: Documentation Software: EnergyPro  
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-30241-9223-0087  
 Schema Version: rev 20220101 Report Generated: 2023-09-12 08:58:06

10/11/2023

REGISTERED PROFESSIONAL ENGINEER  
 ARCHITECT  
 No. S23030  
 STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.  
 4777 E. CARPENTER ROAD  
 STOCKTON, CA 95215  
 (209) 466-8000

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 02-121249-PC  
 REVIEWED FOR  
 SS  PLS  ACS  CG   
 DATE: 10/24/2023

ROBERTS FERRY ES  
 at  
 ROBERTS FERRY UESD

ENERGY COMPLIANCE

REV / DATE:	BY:

JOB No.:  
 DRAWN BY:  
 DATE:

PRE-CHECK (PC) DOCUMENT  
 Code: 2022 CBC  
 A separate project application for construction is required.

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EN4

24"x40" TO 120"x40" P.C.

REBID - April 14, 2024

STATE OF CALIFORNIA  
**Indoor Lighting**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Standard 12x40 PC Restroom Module (unconditioned space)  
 Report Page: (Page 1 of 7)  
 Date Prepared: 2023-09-12 09:22:41

**A. GENERAL INFORMATION**

01 Project Location (City)	And Bluff	04 Total Conditioned Floor Area (ft²)	0
02 Climate Zone	11	05 Total Unconditioned Floor Area (ft²)	480
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1
<input checked="" type="checkbox"/> Relocatable Public School			

**B. PROJECT SCOPE**

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)(2) / 180.2(b)(4) for alterations.

Scope of Work	Conditioned Spaces	Unconditioned Spaces
01	02	03
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)
<input checked="" type="checkbox"/> New Lighting System	N/A	0
<input type="checkbox"/> New Lighting System - Parking Garage	N/A	0
<b>Total Area of Work (ft²)</b>		<b>480</b>

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 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
 Report Version: 2022.0.000  
 Compliance ID: 93697-0923-0004  
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STATE OF CALIFORNIA  
**Indoor Lighting**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Standard 12x40 PC Restroom Module (unconditioned space)  
 Report Page: (Page 2 of 7)  
 Date Prepared: 2023-09-12 09:22:41

**C. COMPLIANCE RESULTS**

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES WITH EXCEPTIONAL CONDITIONS" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b) / 170.2(c)	Allowed Lighting Power per 140.6(b) / 170.2(a) (Watts)				Adjusted Lighting Power per 140.6(a) / 170.2(a) (Watts)				Compliance Results
	01	02	03	04	05	06	07	08	
Complete Building 140.6(c)1	Area Category 140.6(c)2	Area Additional 140.6(c)3	Tailored 140.6(c)4	Total Allowed (Watts)	≥	Total Designed (Watts)	PAF Lighting Control Credits 140.6(c)7	Total Adjusted (Watts)	05 must be ≥ 08 140.6 / 170.2(e)
(See Table I)	(See Table I)	(See Table I)	(See Table K)			(See Table F)	(See Table P)		
<b>Conditioned</b>									COMPLIES
<b>Unconditioned</b>	192				192	191		191	COMPLIES

**D. EXCEPTIONAL CONDITIONS**

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

**E. ADDITIONAL REMARKS**

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

Generated Date/Time: Documentation Software: Energy Code Ace  
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STATE OF CALIFORNIA  
**Indoor Lighting**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Standard 12x40 PC Restroom Module (unconditioned space)  
 Report Page: (Page 3 of 7)  
 Date Prepared: 2023-09-12 09:22:41

**F. INDOOR LIGHTING FIXTURE SCHEDULE**

This table includes all planned permanent and portable lighting other than dwelling unit/hotel/motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table F. If using Table F to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Unconditioned Spaces									
01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change	Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)1 / 170.2(e)2C	Design Watts	Field Inspector
A	2x4 LED 2GTL recessed troffer light	No	NA	38.9	Mfr. Spec	4	No	155.6	Pass
B	2x2 LED 2GTL recessed troffer light	No	NA	35.4	Mfr. Spec	1	No	35.4	Pass
<b>Total Designed Watts: UNCONDITIONED SPACES</b>									191

**G. MODULAR LIGHTING SYSTEMS**

This section does not apply to this project.

**H. INDOOR LIGHTING CONTROLS (Not including PAFs)**

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls		
01	02	03
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)AC	Field Inspector
NA < 4,000W subject to multilevel	See Area/Space Level Controls	Pass

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STATE OF CALIFORNIA  
**Indoor Lighting**  
 CERTIFICATE OF COMPLIANCE  
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 Report Page: (Page 4 of 7)  
 Date Prepared: 2023-09-12 09:22:41

**H. INDOOR LIGHTING CONTROLS (Not including PAFs)**

Area Level Controls											
04	05	06	07	08	09	10	11	12			
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)AA	Multi-Level Controls 130.1(b) / 160.5(b)AB	Shut-Off Controls 130.1(c) / 160.5(b)AC	Primary/Sky Light Daylighting 130.1(d) / 160.5(b)AD	Secondary Daylighting 130.1(e) / 160.5(b)AE	Interlocked Systems 140.6(a)1 / 170.2(a)2A	Field Inspector	Pass	Fail	
Restrooms	All Other Occupancies	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No				
Plan Sheet Showing Daylit Zones:											

**I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS**

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.

Unconditioned Spaces						
01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
Restrooms	All Other Occupancies	0.4	480	192	No	
<b>TOTALS:</b>			<b>480</b>	<b>192</b>	See Tables J, or P for detail	

**J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM**

This section does not apply to this project.

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STATE OF CALIFORNIA  
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 Report Page: (Page 5 of 7)  
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**K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE**

This section does not apply to this project.

**L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY**

This section does not apply to this project.

**M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING**

This section does not apply to this project.

**N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / SPECIAL EFFECTS**

This section does not apply to this project.

**O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE**

This section does not apply to this project.

**P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))**

This section does not apply to this project.

**Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS**

This section does not apply to this project.

**R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS**

This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace  
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STATE OF CALIFORNIA  
**Indoor Lighting**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Standard 12x40 PC Restroom Module (unconditioned space)  
 Report Page: (Page 6 of 7)  
 Date Prepared: 2023-09-12 09:22:41

**S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)**

This section does not apply to this project.

**T. DWELLING UNIT LIGHTING**

This section does not apply to this project.

**U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

Form/Title

**V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/ibcc-24/attcp/providers.html>

Form/Title

NCA-LT-Q2-A - Must be submitted for occupancy sensors and automatic time switch controls.

Restrooms

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STATE OF CALIFORNIA  
**Indoor Lighting**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Standard 12x40 PC Restroom Module (unconditioned space)  
 Report Page: (Page 7 of 7)  
 Date Prepared: 2023-09-12 09:22:41

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: LUIS EQUIVEL  
 Signature Date: 9/12/2023  
 Address: 4777 E. Carpenter Road  
 City/State/Zip: Stockton, CA 95215

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I verify 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.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided in other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance is provided to the building owner 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 owner provides to the building owner at occupancy.

Responsible Designer Name: LUIS EQUIVEL  
 Signature Date: 9/12/2023  
 Address: 4777 E. Carpenter Road  
 City/State/Zip: Stockton, CA 95215

Generated Date/Time: Documentation Software: Energy Code Ace  
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STATE OF CALIFORNIA  
**Indoor Lighting**  
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**CYS**  
 STRUCTURAL ENGINEERS, INC.  
 6140 Natomas Park Drive, Suite 600  
 (916) 290-0202 | (916) 290-1316 FAX  
 www.cyseng.com

10/11/2023

REGISTERED PROFESSIONAL ENGINEER  
 No. S2030  
 STATE OF CALIFORNIA

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**ENVIROPLEX, INC.**  
 4777 E. CARPENTER ROAD  
 STOCKTON, CA 95215  
 (209) 466-8000

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 02-121249-PC  
 REVIEWED FOR  
 SS  PLS  ACS  CG   
 DATE: 10/24/2023

**ROBERTS FERRY ES**  
 at  
**ROBERTS FERRY UESD**

**ENERGY COMPLIANCE**

REV / DATE: BY:

JOB No.:  
 DRAWN BY:  
 DATE:

PRE-CHECK (PC) DOCUMENT  
 Code: 2022 CBC  
 A separate project application for construction is required.

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**EN5**

24x40 TO 2024x40 P.C.

**REBID - April 14, 2024**

STATE OF CALIFORNIA  
**Nonresidential Building Commissioning**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-CXR-E  
 Project Name: Standard 36x40 PC Report Page: (Page 1 of 6)  
 Date Prepared: 9/12/2023

**A. GENERAL INFORMATION**

01 Project Location (City)	Reference City - Red Bluff	04 Building Size (ft <sup>2</sup> )	1440
02 Occupancy Type	Nonresidential	05	< 10,000 ft <sup>2</sup>
03 Project Type	Newly constructed	06	Unitary or packaged equipment each serving one zone
		07 Climate Zone	11

**B. PROJECT SCOPE**  
 Based on project information provided in Table A, Table B indicates which commissioning related requirements apply per 120.8. Table B is not editable by the user.

**Commissioning Requirements per 120.8**

01	Table F: Design Review Kickoff	120.8(d) and 120.8(i)(2)	The design review kickoff meeting establishes who will play the role of the design reviewer, the project schedule and identify owner's requirements. This meeting should be conducted during schematic design.
02	Table G: Owner's Project Requirements (OPR)	120.8(b)	This requirement does not apply.
03	Table H: Basis of Design (BOD)	120.8(c)	This requirement does not apply.
04	Table I: Design Review	120.8(d) and 120.8(e)	The design reviewer(s) reviews the construction documents for clarity, completeness, and adherence to the owner's goals. Commissioning measures must be included in the construction documents to facilitate the design review and commissioning process. For projects with >= 10,000 ft <sup>2</sup> of nonresidential conditioned floor area, the design review is for adherence with the Owner's Project Requirements (OPR) and Basis of Design (BOD). This should be conducted during design.
05	Table J: Commissioning Plan	120.8(f)	This requirement does not apply.
06	Table K: Functional Performance Testing	120.8(g)	This requirement does not apply.
07	Table L: Documentation and Training	120.8(h)	This requirement does not apply.
08	Table M: Commissioning Report	120.8(i)	This requirement does not apply.

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STATE OF CALIFORNIA  
**Nonresidential Building Commissioning**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-CXR-E  
 Project Name: Standard 36x40 PC Report Page: (Page 2 of 6)  
 Date Prepared: 9/12/2023

**C. COMPLIANCE RESULTS**  
 Table C will indicate if the project data input into the compliance document is compliant with commissioning requirements per 120.8. This table is not editable by the user. If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D for guidance.

01	02	03	04	05	06	07	08	09
Design Kickoff Review	Owner's Project Requirements	Basis of Design	Design Review	Commissioning Plan	Functional Performance Testing	Documentation and Training	Commissioning Report	
Table F	Table G	Table H	Table I	Table J	Table K	Table L	Table M	
Yes		Yes						COMPLIES
10								COMPLIES

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

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

Generated Date/Time: Documentation Software: EnergyPro  
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STATE OF CALIFORNIA  
**Nonresidential Building Commissioning**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-CXR-E  
 Project Name: Standard 36x40 PC Report Page: (Page 3 of 6)  
 Date Prepared: 9/12/2023

**F. DESIGN REVIEW KICKOFF MEETING**  
 This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(j) and demonstrates compliance with design review kickoff requirements per 120.8(i)(2). This meeting should occur during the Schematic Design phase of the project.

**Design Review Kickoff Meeting Details**

01 Date of Design Review Kickoff Meeting	2022-04-07
02 Meeting Attendees (one person may play multiple roles)	
03 Owner/Facility Manager:	Enviroplex, Inc.
04 Design Reviewer(s)	Luis Esquivel
05 Project Manager:	Luis Esquivel
06 Design Architect/ Engineer(s):	Art Ross
07 Contractor:	David Duggins
08 Certified Acceptance Test Tech(s):	
09 Commissioning Provider:	Enviroplex T24 Part 8 Consultants: Randy Shull

**Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(j)(1)**

The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code.

In addition, for buildings with >= 10,000 ft<sup>2</sup> but < 50,000 ft<sup>2</sup>, the design reviewer(s) shall be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect, or contractor.

Do the Design Reviewer(s) meet these qualifications? Yes  No

04 The design reviewer(s) for this project will be: Luis Esquivel

**Preliminary Construction Schedule**

Start Date	Completion Date
05 Schematic Design	2023-01-01
06 Design Development	2023-02-01
07 Construction Documents	2023-03-01
08 Construction	2024-01-01
09 Building Turnover	2024-02-01

**Project Goals Related to Energy Efficiency**

10 Operational Costs	
11 Desired Building Lifespan	
12 Equipment Lifecycle	
13 Project Energy Efficiency Goals	PC annual TDV energy use better than state minimum standard design

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STATE OF CALIFORNIA  
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 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-CXR-E  
 Project Name: Standard 36x40 PC Report Page: (Page 4 of 6)  
 Date Prepared: 9/12/2023

**F. DESIGN REVIEW KICKOFF MEETING**

14 Envelope Goals	
15 HVAC System Goals	
16 Indoor Lighting System Goals	
17 Outdoor Lighting System Goals	
18 Water Heating System Goals	
19 Equipment and System Specifications	
20 Operations and Maintenance	

**G. OWNER'S PROJECT REQUIREMENTS (OPR)**  
 This section does not apply to this project.

**H. BASIS OF DESIGN (BOD)**  
 This section does not apply to this project.

**I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST**  
 This table is only completed if a design review document is not attached to permit application to demonstrate compliance with 120.8(b) and 120.8(i). For buildings with >= 10,000 ft<sup>2</sup> conditioned floor area, the design review will ensure the construction documents meet the Owner's Project Requirements (Table G) and the Basis of Design Documents (Table H). For buildings with < 10,000 ft<sup>2</sup> conditioned floor area, the design review will ensure the construction documents meet the goals documented in Table F during the Design Review Kickoff.

01 Attaching Completed Design Review Documentation?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
---	---	-----------------------------

**J. COMMISSIONING PLAN**  
 This section does not apply to this project.

Generated Date/Time: Documentation Software: EnergyPro  
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**CERTIFICATE OF COMPLIANCE** NRCC-CXR-E  
 Project Name: Standard 36x40 PC Report Page: (Page 5 of 6)  
 Date Prepared: 9/12/2023

**K. FUNCTIONAL PERFORMANCE TESTING**  
 This section does not apply to this project.

**L. DOCUMENTATION AND TRAINING**  
 This section does not apply to this project.

**M. COMMISSIONING REPORT**  
 This section does not apply to this project.

**N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
 There are no forms required for this project.

**O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
 There are no forms required for this project.

Generated Date/Time: Documentation Software: EnergyPro  
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STATE OF CALIFORNIA  
**Nonresidential Building Commissioning**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-CXR-E  
 Project Name: Standard 36x40 PC Report Page: (Page 6 of 6)  
 Date Prepared: 9/12/2023

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Luis Esquivel  
 Signature Date: 9/12/2023  
 Address: 4777 E. Carpenter Road, Stockton, CA 95215  
 Phone: (209) 466-8000

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
 I verify the following order priority of review, 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 conform to the requirements of Title 24, Part 1 and Part 8 of the California Code of Regulations.
- 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.
- 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 that is submitted to the building owner at occupancy.

Responsible Designer Name: Luis Esquivel  
 Responsible Designer Signature: [Signature]  
 Date Signed: 2023-09-12  
 Address: 4777 E. Carpenter Road, Stockton, CA 95215  
 Phone: (209) 466-8000

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 Schema Version: rev 20220101 Report Generated: 2023-09-12 08:40:07

**CYS**  
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 www.cysinc.com

10/11/2023

REGISTERED PROFESSIONAL ENGINEER  
 No. 20330  
 STATE OF CALIFORNIA

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ROBERTS FERRY ES  
 at  
 ROBERTS FERRY UESD

ENERGY COMPLIANCE

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

EN6

PRE-CHECK (PC) DOCUMENT  
 Code: 2022 CBC  
 A separate project application for construction is required.

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REBID - April 14, 2024

24x40 TO 20x40 P.C.

STATE OF CALIFORNIA  
**Domestic Water Heating System**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-PLB-E-1  
 This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.

Project Name: Standard 3640 PC Report Page: (Page 1 of 7)  
 Project Address: C2 16 Date Prepared: 8/31/2023

**A. GENERAL INFORMATION**

01	Project Location (City)	Reference City - Blue Canyon	02	Climate Zone	16
03 Occupancy Types Within Project (select all that apply):					
<input type="checkbox"/> Classroom					

**B. PROJECT SCOPE**  
 This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140.1, 170.2(d) and 141.0(a)/180.1 or 141.0(b)/180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03
My project consists of (check all that apply):	System Type <sup>1,2</sup>	System Components
<input checked="" type="checkbox"/> New system (DHW system being installed for the first time) <input type="checkbox"/> System Alteration (equipment, distribution or controls)	<input checked="" type="checkbox"/> Individual System (serving nonresidential spaces) <input type="checkbox"/> Equipment <input type="checkbox"/> Distribution <input type="checkbox"/> Controls	<input checked="" type="checkbox"/> Equipment <input type="checkbox"/> Distribution <input type="checkbox"/> Controls

**C. COMPLIANCE RESULTS**  
 Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	Compliance Results
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

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

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 Schema Version: rev 20220101 Report Generated: 2023-08-31 14:07:40

STATE OF CALIFORNIA  
**Domestic Water Heating System**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-PLB-E-1  
 Project Name: Standard 3640 PC Report Page: (Page 2 of 7)  
 Date Prepared: 8/31/2023

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

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STATE OF CALIFORNIA  
**Domestic Water Heating System**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-PLB-E-1  
 Project Name: Standard 3640 PC Report Page: (Page 3 of 7)  
 Date Prepared: 8/31/2023

**F. DOMESTIC HOT WATER EQUIPMENT**  
 This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1 / 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

System Name	03	04	05	06					
	Chromomite Instantaneous Electric	Exception to 140.5(c)/170.2(d) <sup>3</sup>	Gas Service Water Heating System $\geq$ 1MMBtu/h <sup>4</sup>	Capacity-weighted Average Efficiency %					
07	08	09	10	11	12	13	14	15	
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
Chromomite Instantaneous Electric	Consumer Rated Electric Instantaneous ( $\leq$ 12kW)	0.1	21,000	FHR $\geq$ 75	0.92	0.91	UEF		

**Water Heating Equipment All Occupancies**

	Yes	No	Not Applicable	Requirement
18	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unfired storage tank insulation shall have Internal + External $\geq$ R-16 OR External $\geq$ R-3.5. Label required per 110.3(c)3
19	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Isolation valves for instantaneous water heater with input rating $\geq$ 6.8 kBtu/h or 2 kW has been specified per 110.3(c)6
21	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	School buildings < 25,000 ft <sup>2</sup> and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

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STATE OF CALIFORNIA  
**Domestic Water Heating System**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-PLB-E-1  
 Project Name: Standard 3640 PC Report Page: (Page 4 of 7)  
 Date Prepared: 8/31/2023

**G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM**  
 This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

**Mandatory Pipe Insulation All Occupancies**

13	<input type="checkbox"/>	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see below) except: <ul style="list-style-type: none"> <li>Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members.</li> <li>Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5.</li> <li>Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.</li> </ul>
14	<input checked="" type="checkbox"/>	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: <ul style="list-style-type: none"> <li>Recirculating system piping, including supply and return piping of the water heater</li> <li>The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system</li> <li>Pipes that are externally heated</li> </ul>
15	<input type="checkbox"/>	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(b). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

**TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS**

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft <sup>2</sup> per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4, 1.5 in or R-11, 2.0 in or R-16
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

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STATE OF CALIFORNIA  
**Domestic Water Heating System**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-PLB-E-1  
 Project Name: Standard 3640 PC Report Page: (Page 5 of 7)  
 Date Prepared: 8/31/2023

**H. DOMESTIC HOT WATER CONTROLS**  
 This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

	Yes	No	Not Applicable	Requirement
01	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Systems with capacity $\geq$ 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.
03	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per 6110.3(c)2 unless systems serve healthcare facility.
04	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions.
05	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.3 per 170.2(d).
06	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Combustion air positive shut-off shall be provided per 160.4(f) on all newly installed commercial boilers as follows: <ul style="list-style-type: none"> <li>Boilers with input capacity <math>\geq</math> 2.5 MMBtu/h, in which the boiler is designed to operate with a responsive vent static pressure</li> <li>Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.</li> </ul>
07	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Boiler combustion air fans with motor $\geq$ 10 hp shall meet one of the following: <ul style="list-style-type: none"> <li>The fan motor shall be driven by a variable speed drive OR</li> <li>The fan motor shall include controls that limit the fan motor demand to <math>\leq</math>30% of the total design wattage at 50% of the design air volume.</li> </ul>
08	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Newly installed boilers with an input capacity (d) $\geq$ 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations $\leq$ 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

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STATE OF CALIFORNIA  
**Domestic Water Heating System**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-PLB-E-1  
 Project Name: Standard 3640 PC Report Page: (Page 6 of 7)  
 Date Prepared: 8/31/2023

**I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
 Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

Form/Title

NRCC-PLB-E - Must be submitted for all buildings

**J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
 There are no forms required for this project.

**K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**  
 There are no forms required for this project.

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STATE OF CALIFORNIA  
**Domestic Water Heating System**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-PLB-E-1  
 Project Name: Standard 3640 PC Report Page: (Page 7 of 7)  
 Project Address: C2 16 Date Prepared: 8/31/2023

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Luis Esquivel  
 Signature Date: 8/31/2023

Company: Enviroplex, Inc.  
 Address: 4777 E. Carpenter Road  
 City/State/Zip: Stockton, CA 95215  
 Phone: (209) 466-8000

**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.
- 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.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for this 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: Luis Esquivel  
 Signature Date: 2023-08-31  
 License: 640557  
 Phone: (209) 466-8000

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STATE OF CALIFORNIA  
**Domestic Water Heating System**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-PLB-E-1  
 Project Name: Standard 3640 PC Report Page: (Page 7 of 7)  
 Date Prepared: 8/31/2023

**ENERGY COMPLIANCE**

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STATE OF CALIFORNIA  
**Domestic Water Heating System**  
 CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-PLB-E-1  
 Project Name: Standard 3640 PC Report Page: (Page 7 of 7)  
 Date Prepared: 8/31/2023

**ENERGY COMPLIANCE**

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10/11/2023

REGISTERED PROFESSIONAL ENGINEER  
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 at  
**ROBERTS FERRY UESD**

**ENERGY COMPLIANCE**

REV / DATE: BY:

JOB No.:  
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 DATE:

**EN7**

24x40 TO 120x40 P.C.

PRE-CHECK (PC) DOCUMENT  
 Code: 2022 CBC  
 A separate project application for construction is required.

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**REBID - April 14, 2024**

STATE OF CALIFORNIA  
**Solar And Battery**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-SAB-E  
Project Name: Standard 36x40 PC Report Page: (Page 2 of 6)  
Date Prepared: 9/12/2023

This document is used to demonstrate compliance with prescriptive PV and battery requirements in 140.10/170.2 for nonresidential, multifamily and mixed-use buildings and prescriptive solar thermal requirements in 170.2(i)(3) for multifamily and hotel/motel occupancies. When PV/battery/solar thermal requirements don't apply or are traded using the performance approach, this document demonstrates compliance with mandatory solar readiness requirements in 110.10/160.8 for newly constructed buildings which are either multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance with solar readiness in 110.10/160.8 for additions to nonresidential, multifamily or hotel/motel building types which add more than 2,000 ft<sup>2</sup> of roof area. Alterations, or additions of less than 2,000 ft<sup>2</sup> of roof area, are not required to comply with solar readiness, solar PV and battery requirements and do not need to complete this document.

Project Name: Standard 36x40 PC Report Page: (Page 1 of 6)  
Project Address: C2 [Date Prepared: 9/12/2023]

**A. GENERAL INFORMATION**

01 Project Location (City)	Reference city - Red Bluff	04 Building Occupancies	All Other Occupancies
02 Climate Zone	11	05 Construction Type	New construction
03 Conditioned Floor Area (ft <sup>2</sup> )	1440	06 Number of Stories	Build <= 3 stories

**B. PROJECT SCOPE**  
The compliance path the project is using to comply per 110.10(b)(1)(A), 140.10/170.2(g) and (h) is indicated below.

**Compliance with Solar Readiness Requirements in 110.10(b)(1)(B)**

01	02	03	04	05	06	07	08	
02	Provide Solar Ready Area no exceptions	The project has allocated a solar zone on the roof plan per requirements in §110.10(b), as documented in Table F.	03	Exception to Solar Ready Area: Installed Solar Photovoltaic System	The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area as documented in Table G.	04	Exception to Solar Ready Area: Installed Solar Water Heating System	The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water-heating system complying with 170.26(i)(3) and Reference Residential Appendix RAA, as documented in Table H.
05	Exception to Solar Ready Area: Smart Thermostat and Alternative Energy Efficiency Measure	The project is a multifamily occupancy where all thermostats in each dwelling unit comply with §110.12(d), AND at least one additional measure listed in Exception to §110.10(b)(1)(B) is installed, as documented in Table I.	06	Exception to Solar Ready Area: Roof is designed for vehicular traffic, parking or for heliport	Plan sheet showing roof designed for vehicular traffic, parking or heliport	07	Exception to Solar Ready Area: Roof too small	The project is new construction and has a total roof area <= 533 square feet
08	Exception to Solar Ready Area: Number of building stories	The project is nonresidential > 3 stories or multifamily/hotel/motel > 10 stories.	09	FOOTNOTE: Buildings with roof area <=533 ft <sup>2</sup> would have a required solar zone < 80 ft <sup>2</sup> and are therefore exempt per 110.10(b)(1).				

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-30247-0923-0093  
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STATE OF CALIFORNIA  
**Solar And Battery**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-SAB-E  
Project Name: Standard 36x40 PC Report Page: (Page 2 of 6)  
Date Prepared: 9/12/2023

**Compliance with Solar Photovoltaic (PV) and Battery Requirements in 140.10/170.2(g) and (h)**

01	02	03	04	05	06	07	08	
01	Provided PV system and battery storage sized per 140.10/170.2(g) and (h)	The project has included an installed PV system and battery storage system per requirements in 140.10/170.2(g) and (h) as documented in Table J.	02	Exception to PV and Battery: Not enough Solar Access Roof Area	The total of all available Solar Access Roof Area(s) of the project site is less than three percent of the conditioned floor area as documented in Table J.	03	Exception to PV and Battery: Required PV < 4kW	The required PV system size is less than 4 kW dc as documented in Table J.
04	Exception to PV and Battery: No contiguous Solar Access Roof Area	The Solar Access Roof Area(s) of the project site contains less than 80 contiguous square feet as documented in Table J.	05	Exception to PV and Battery: Can't meet snow load	The project has a roof design where the enforcement authority has verified it is not possible for the PV system, including panels, modules, components, supports, and attachments to the roof structure, to meet ASCE 7-16 Chapter 7, Snow Loads.	06	Exception to PV and Battery: Multi-tenant without VNM or Community Solar	The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (VNM) or community solar program.
07	Exception to PV and Battery: Prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form.		08	Compliance meets Exception 2 to solar ready requirements in 110.10(b).				

**Compliance with Solar Thermal Water Heating Requirements in 170.2(i)(3) (Multifamily and hotel/ motel occupancies only)**

01	02
01	The project includes a hotel/motel or multifamily occupancy with a gas or propane central water-heating system (serves 2+ dwelling units) and includes a permanently installed domestic solar water-heating system to comply with 170.2(i)(3) and Reference Residential Appendix RAA, as documented in Table H.
02	Compliance meets Exception 2 to solar ready requirements in 110.10(b).

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STATE OF CALIFORNIA  
**Solar And Battery**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-SAB-E  
Project Name: Standard 36x40 PC Report Page: (Page 3 of 6)  
Date Prepared: 9/12/2023

**C. COMPLIANCE RESULTS**  
Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D for guidance or see the applicable Table referenced below.

Allocated Solar Zone		Installed PV System		Installed SWH System		Smart Thermostat and Alternative IE Measure		Compliance Results
01	02	03	04	05	06	07	08	
Required Minimum Area (ft <sup>2</sup> )	Designated Area (ft <sup>2</sup> )	Required Minimum DC Power Rating (Watts)	Designed DC Power Rating (Watts)	Required Minimum Solar Savings Fraction	Designed/Rat ed Solar Savings Fraction	JAS Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	COMPLIES
(See Table F)		(See Tables G or J)		(See Table H)		(See Table I)		
213.6	<= 328	OR	<= 4	OR	<= 0.03	OR	<= 0.03	
A1.1, A1A.1 Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(b).								COMPLIES
Battery storage system design meets the minimum requirements in Joint Appendix J12 and the minimum energy (kWh)/ power (kW) capacity per Table I.								Not Applicable

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

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

Generated Date/Time: Documentation Software: EnergyPro  
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-30247-0923-0093  
Schema Version: rev 20220101 Report Generated: 2023-09-12 10:00:38

STATE OF CALIFORNIA  
**Solar And Battery**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-SAB-E  
Project Name: Standard 36x40 PC Report Page: (Page 4 of 6)  
Date Prepared: 9/12/2023

**F. ALLOCATED SOLAR ZONE**  
This table is completed if the project is designating a solar zone to comply with §110.10(b)(1)(B). New construction consider the total roof area; Additions consider newly added roof area. This table demonstrates that the project has designated the minimum area required for the Allocated Solar Zone, and also that the requirements for Solar Zone Subareas have been met. Each subarea must be shown on a roof plan or documented in construction documents. The solar zone must also comply with fire code requirements, including, but not limited to, setback and pathway requirements. Requirements for interconnection pathways must also be included in construction documents, and the location is specified in this table.

01	02	03	04	05	06	07	08
Required Minimum Solar Zone	Minimum Solar Zone Area Based on Calculation Method	Total New or Added Roof Area (ft <sup>2</sup> )	Total New or Added Roof Area Covered with Skylights (ft <sup>2</sup> )	Minimum Solar Zone Based on Total Area (ft <sup>2</sup> )	Method/ Tools Used to Determine Annual Solar Access for Potential Zones <sup>1</sup>	Potential Solar Zone Areas: Roof areas with >= 70% Solar Access	Minimum Solar Zone Based on Potential Zones (0.5 x [Total Potential Zones]) (ft <sup>2</sup> )
		1440	16	214		Low-Sloped Area (<= 2:12 pitch) (ft <sup>2</sup> )	214
						Slope-Sloped Area (> 2:12 pitch) (ft <sup>2</sup> )	
						Total Potential Solar Zone Area (ft <sup>2</sup> )	

**Designated Solar Zone Subareas**

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Reference	Roof or Overhang Slope (Low <= 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Free of Obstructions per §110.10(b)(3) A	Subarea is Required Distance from Potential Obstructions per §110.10(b)(3) B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft <sup>2</sup> )	Designated Area (ft <sup>2</sup> )	Subarea Complies?
Main Roof	SRA	Low slope	No	Yes	Yes	Yes	Yes	80	328	COMPLIES

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**CERTIFICATE OF COMPLIANCE** NRCC-SAB-E  
Project Name: Standard 36x40 PC Report Page: (Page 5 of 6)  
Date Prepared: 9/12/2023

**I. INTERCONNECTION PATHWAYS**  
Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(b).

FOOTNOTE: This field is used to document how the percentage of annual solar access was determined per §110.10(b)(1)(B). Solar access is the ratio of solar insulation including shade to the solar insulation without shade. Shading from obstructions located on the roof or any other part of the building shall not be included in the determination of annual solar access.

A1.1, A1A.1

**G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION**  
This section does not apply to this project.

**H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS**  
This section does not apply to this project.

**I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION**  
This section does not apply to this project.

**J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS**  
This section does not apply to this project.

**K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
There are no NRC forms required for this project.

**L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
There are no forms required for this project.

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Schema Version: rev 20220101 Report Generated: 2023-09-12 10:00:38

STATE OF CALIFORNIA  
**Solar And Battery**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-SAB-E  
Project Name: Standard 36x40 PC Report Page: (Page 6 of 6)  
Date Prepared: 9/12/2023

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Luis Esquivel  
Signature Date: 9/12/2023  
Address: 4777 E. Carpenter Road, Stockton, CA 95215  
City/State/Zip: Stockton, CA 95215  
Phone: (209) 466-8000

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
I verify the following order priority of review, 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 the Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 2 of the California Code of Regulations.
- 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.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for this 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 documents the builder provides to the building owner at occupancy.

Responsible Designer Name: Luis Esquivel  
Signature Date: 2023-09-12  
Address: 4777 E. Carpenter Road, Stockton, CA 95215  
City/State/Zip: Stockton, CA 95215  
Phone: (209) 466-8000

Generated Date/Time: Documentation Software: EnergyPro  
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www.cyseng.com

10/11/2023

REGISTERED PROFESSIONAL ENGINEER  
No. 20330  
STRUCTURAL ENGINEERING  
STATE OF CALIFORNIA

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SS [ ] PLS [ ] ACS [ ] CG [ ]  
DATE: 10/24/2023

**ROBERTS FERRY ES**  
at  
**ROBERTS FERRY UESD**

**ENERGY COMPLIANCE**

REV / DATE: BY:

JOB No.:  
DRAWN BY:  
DATE:

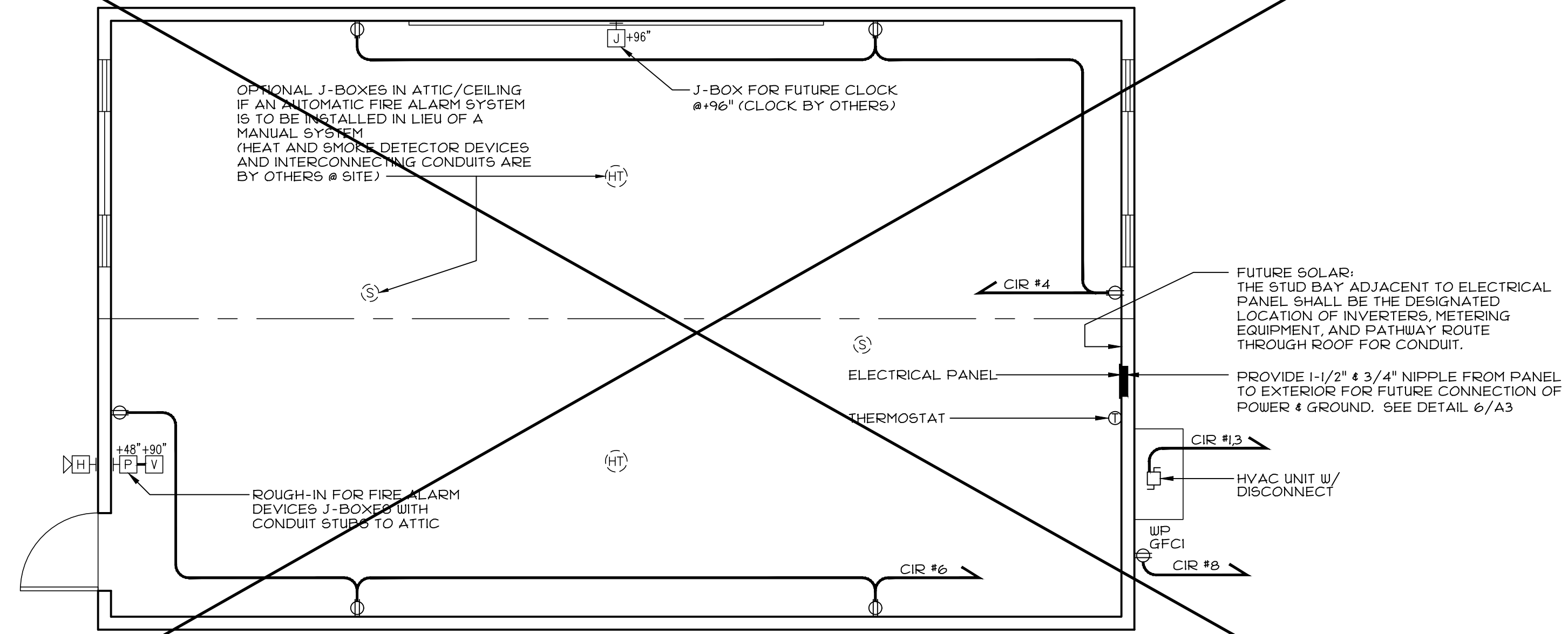
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**EN8**

24x40 TO 20x40 P.C.

**REBID - April 14, 2024**



1. FIRE ALARM: FURNISHED BY OWNER AND SHALL CONFORM TO THE CALIFORNIA BUILDING CODE SECTION 907.2.3 AND CALIFORNIA ELECTRICAL CODE ARTICLE 780.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY D.S.A.
3. 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 PROJECT INSPECTOR.
4. ALARMS/EMERGENCY WARNING SYSTEMS/ACCESSIBILITY: IF EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE ALARMS/EMERGENCY VOICE ALARM COMMUNICATION SYSTEM AND VISUAL ALARMS COMPLYING WITH NFPA 72 EDITION 2022 AND CBC EDITION 2022 CHAPTER 9, SECTIONS 907.5.2, 907.5.2.1 AND 907.5.2.2 (AND EMERGENCY VOICE ALARM COMMUNICATION SYSTEM)

1. OPTIONAL SURFACE MOUNT WALL CLOCK (BY OWNERS): PROVIDE SINGLE CLOCK RECEPTACLE 115 VAC (OR EQUAL).
2. ELECTRICAL PANEL: FLUSH INTERIOR MOUNTED OR SURFACE MOUNT EXTERIOR W/ HINGED DOORS AND INDEXED CARD HOLDERS. CIRCUIT BREAKER(S) WILL HAVE AN APPROPRIATE UL LABEL LISTING.
3. RECEPTACLES: "LEVITON", "HUBBEL" (OR EQUAL)
4. ELECTRIC METALLIC TUBING: COUPLINGS AND FLEX CONDUIT GALVANIZED OR SHERARDIZED.
5. CONDUCTORS: COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6 TYPE THW FOR LARGER SIZES. MINIMUM SIZE #12. LIGHTING & OUTLETS USE MINIMUM SIZE #12, SIZE HVAC WIRING PER LOAD.
6. SEE SHEET A2.0 FOR HVAC & THERMOSTAT SPECIFICATION.

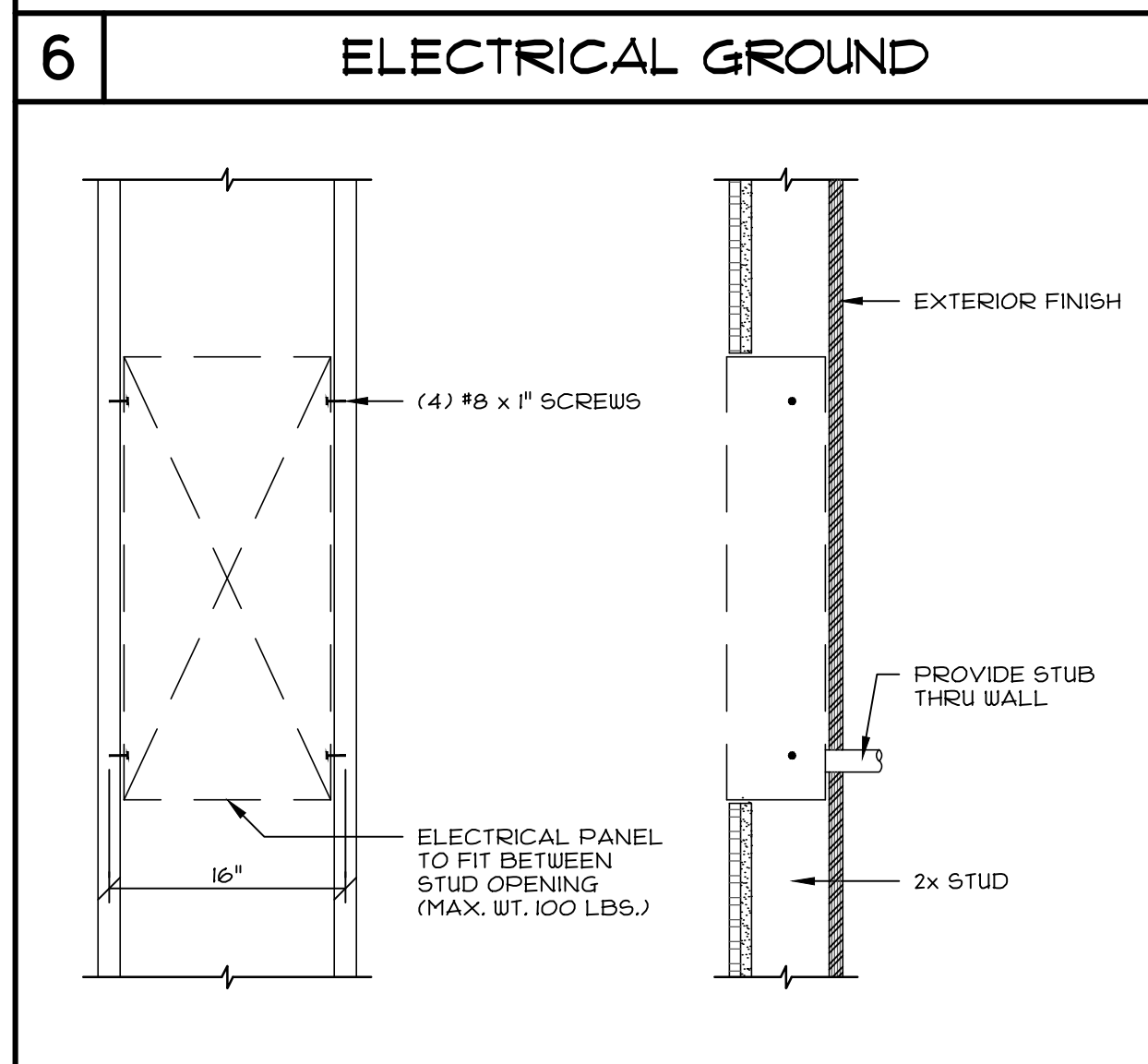
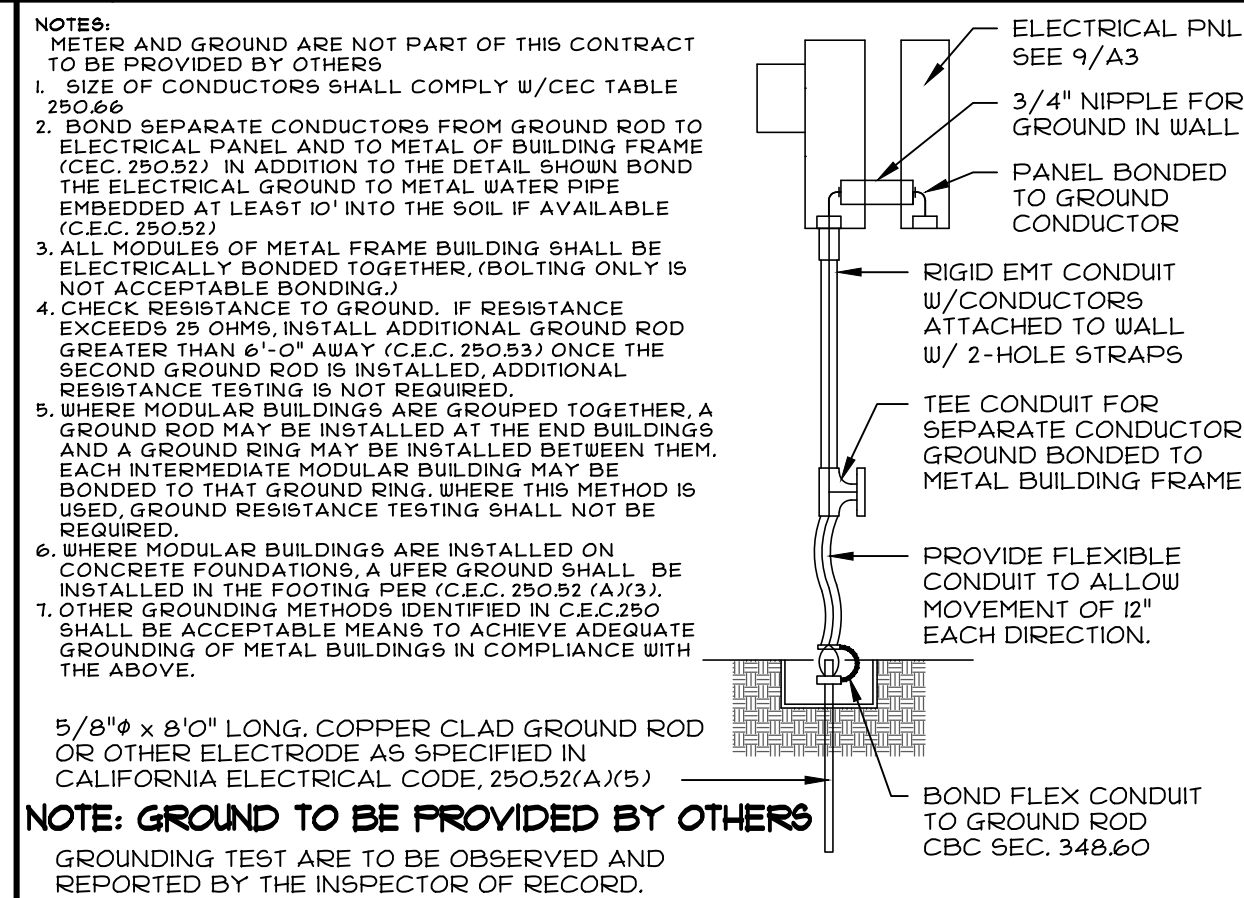
- ### 2 FIRE PROTECTION
- ⊖ DUPLEX RECEPTACLE @15" MIN. A.F.F. (TO BOTTOM OF BOX) OR 18" A.F.F. TO CENTERLINE OF BOX. (UNLESS OTHERWISE NOTED)
  - ⊖ CONTROLLED DUPLEX RECEPTACLE @15" MIN. A.F.F. (TO BOTTOM OF BOX) OR 18" A.F.F. TO CENTERLINE OF BOX. (UNLESS OTHERWISE NOTED)
  - Ⓜ PROGRAMMABLE DIGITAL THERMOSTAT FOR HVAC UNIT @+48" MAX. A.F.F. (TO TOP OF BOX) (SEE 2/A2.0 FOR REQUIREMENTS)
  - J JUNCTION BOX (SIZE AND INSTALLATION HEIGHT AS NOTED)
  - Ⓜ WP WATER PROOF BELL BOX UNDER EAVE @+9'-4" (U.O.N.) FOR FUTURE FIRE ALARM AUDIBLE WARNING DEVICE SEE NOTE NO. 1 OF FIRE PROTECTION
  - Ⓜ JUNCTION BOX @+48" A.F.F. (TO TOP OF BOX) FOR FUTURE FIRE ALARM PULL STATION - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE
  - V JUNCTION BOX @+90" (U.O.N.) FOR FUTURE FIRE ALARM HORN/STROBE DEVICE - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE
  - I JUNCTION BOX @+48" A.F.F. (TO TOP OF BOX) (U.O.N.) FOR FUTURE INTERCOM
  - Ⓜ CEILING MOUNT EXHAUST FAN (CFM PER "A2X.X" SHEET SERIES)
  - Ⓜ OPTIONAL JUNCTION BOX IN ATTIC FOR FUTURE HEAT DETECTOR (DEVICES AND INTERCONNECTING CONDUITS BY OTHERS @ SITE)
  - S OPTIONAL JUNCTION BOX IN ATTIC FOR FUTURE SMOKE DETECTOR (DEVICES AND INTERCONNECTING CONDUITS BY OTHERS @ SITE)
  - Ⓜ WP OPTIONAL WATER PROOF BELL BOX UNDER EAVE @+9'-4" (U.O.N.) FOR FUTURE FIRE ALARM AUDIBLE (SPEAKER) WARNING DEVICE SEE NOTE NO. 1 OF FIRE PROTECTION

- ### 3 ELECTRICAL SPECIFICATIONS

## 1 ELECTRICAL POWER & SIGNAL PLAN

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

## 4 ELECTRICAL LEGEND



PANEL SCHEDULE: "A"  
 MOUNTING: FLUSH INT. (NEMA 1)  
 PANEL: 125 AMP RATED  
 MAIN BREAKER: 125A  
 VOLTS: 120/240  
 PHASE: 1φ  
 WIRE: 3W

DESCRIPTION	LOAD	BRKR	MAIN 125A	BRKR	LOAD	DESCRIPTION	
	A		B				
HVAC UNIT	1360	80	1	20	504	LIGHTING - A	
	1360	2	3	4	20	540	OUTLETS
			5	6	20	540	OUTLETS
			7	8	20	180	WP GFCI
			9	10			
			11	12			
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			
			23	24			
							FUTURE SOLAR ELEC. *

LEG A: 8404 W  
 LEG B: 8080 W  
 TOTAL: 16484 W  
 AMPS: 68.1

\* RESERVED SPACE FOR FUTURE SOLAR ELECTRIC SHALL BE PERMANENTLY MARKED.

## 7 TYPICAL PANEL SCHEDULE

PRE-CHECK (PC) DOCUMENT  
 Code: 2022 CBC  
 A separate project application for construction is required.

## 8

## 9 ELECTRICAL PANEL INSTALLATION

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

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 (209) 466-6000

10/11/2023

REGISTERED PROFESSIONAL ENGINEER  
 ARCHITECT  
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 at  
 ROBERTS FERRY UESD

ELECTRICAL POWER PLAN,  
 SIGNAL PLAN,  
 DETAILS, ELECTRICAL  
 NOTES

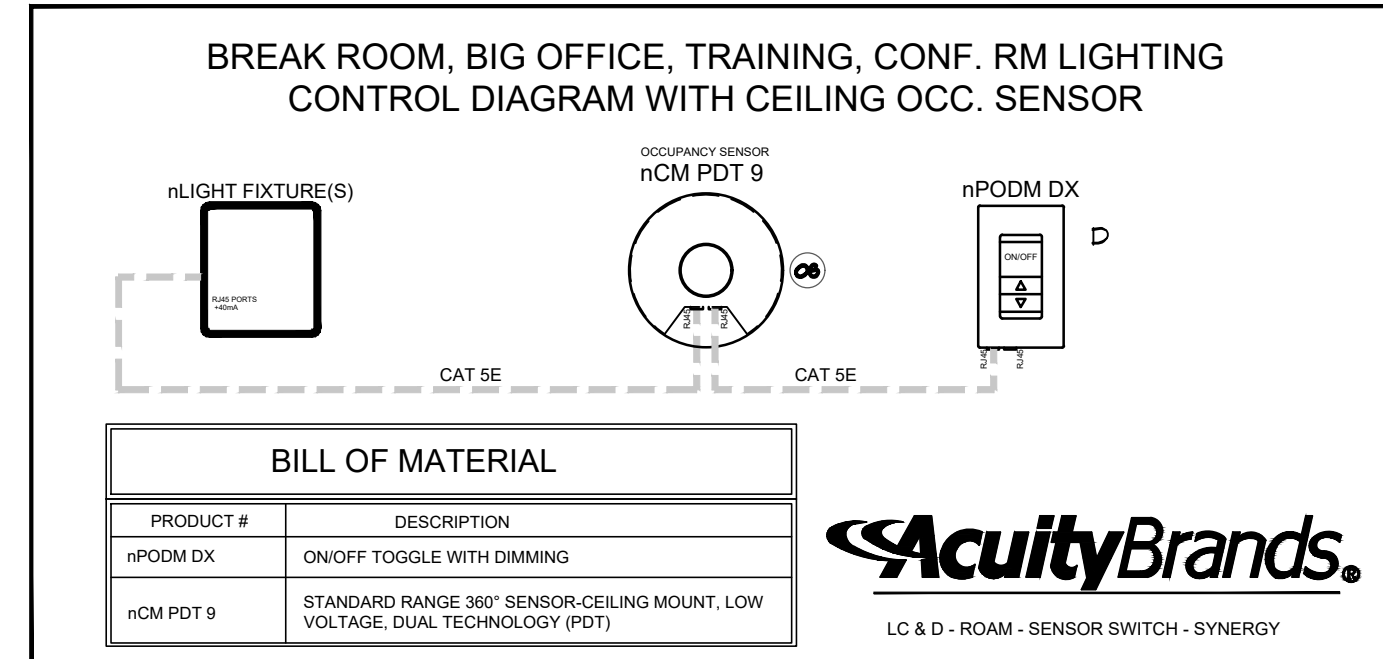
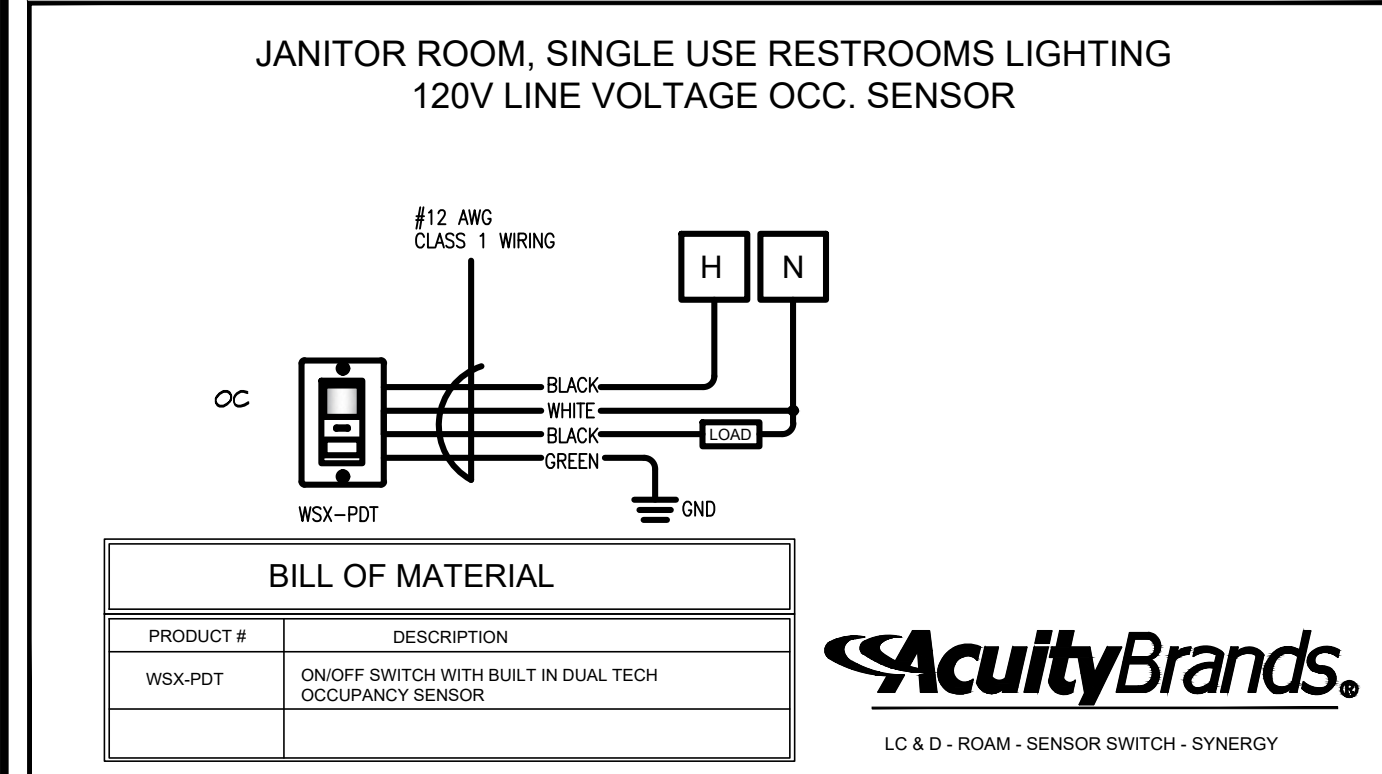
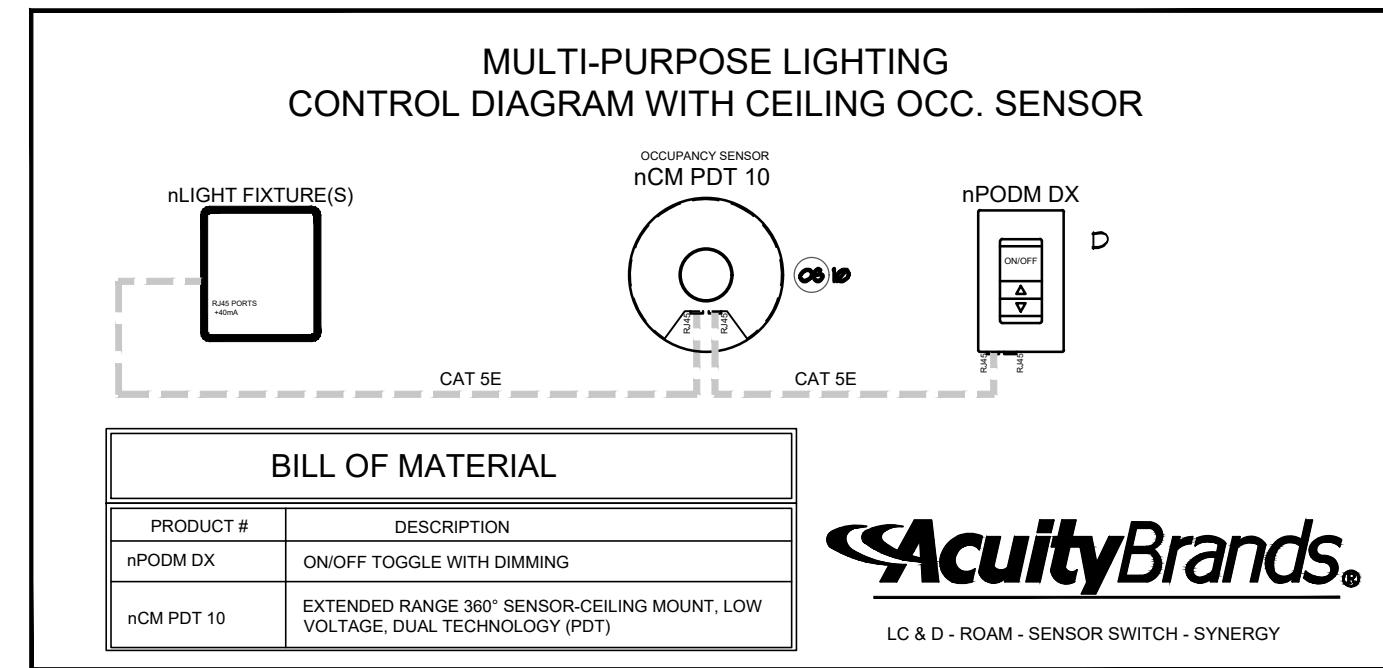
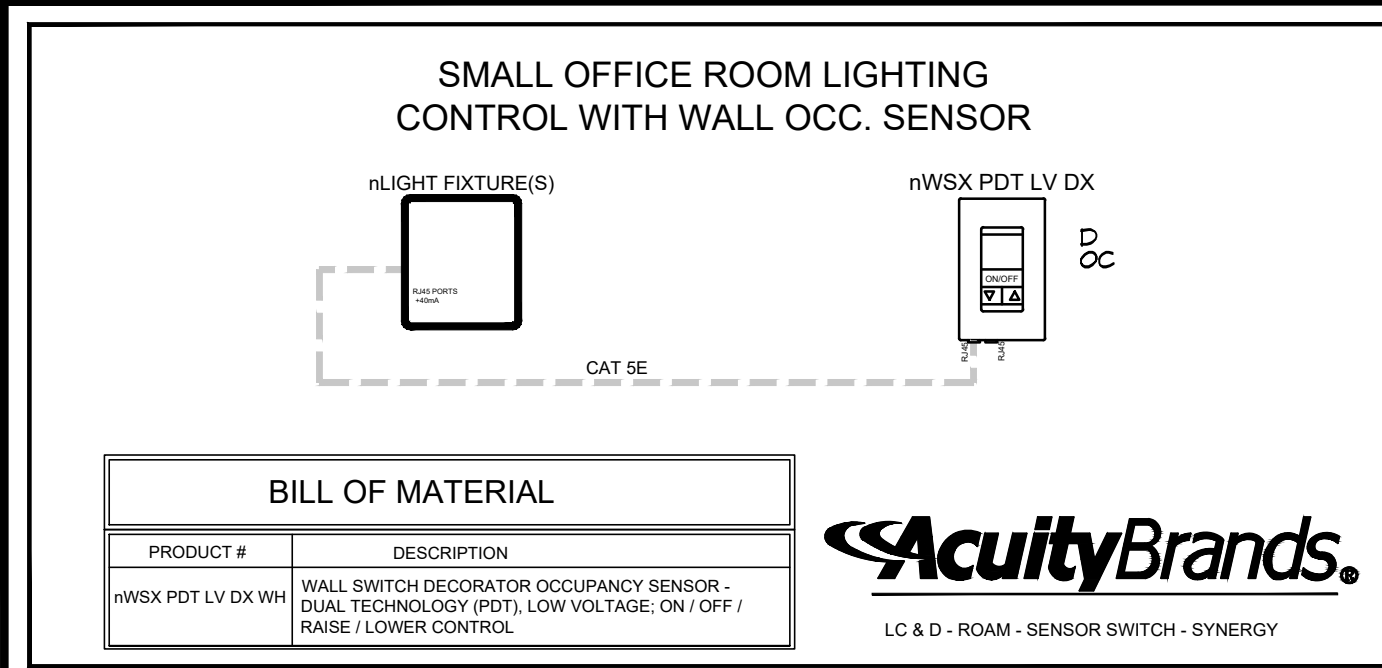
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 DATE:

A3

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24x40 TO 120x40 P.C.



**LIGHTS**

- ALL LIGHTS ARE DIMMABLE.
- FIXTURES ARE CONTROLLED BASED ON POWER PACK LINE VOLTAGE AND 0-10V WIRING.
- MAXIMUM LEVEL CAN BE TUNED TO ANY PERCENTAGE VIA PROGRAMMING.

**OCCUPANCY**

- PARTIAL-ON OCCUPANCY SENSORS AUTOMATICALLY ACTIVATE BETWEEN 50-70% OF CONTROLLED LIGHTING POWER OR FIXTURES MUST BE TURNED ON MANUALLY.
- FIXTURES AUTOMATICALLY TURN OFF WHEN ROOM BECOMES VACANT.

**DAYLIGHT**

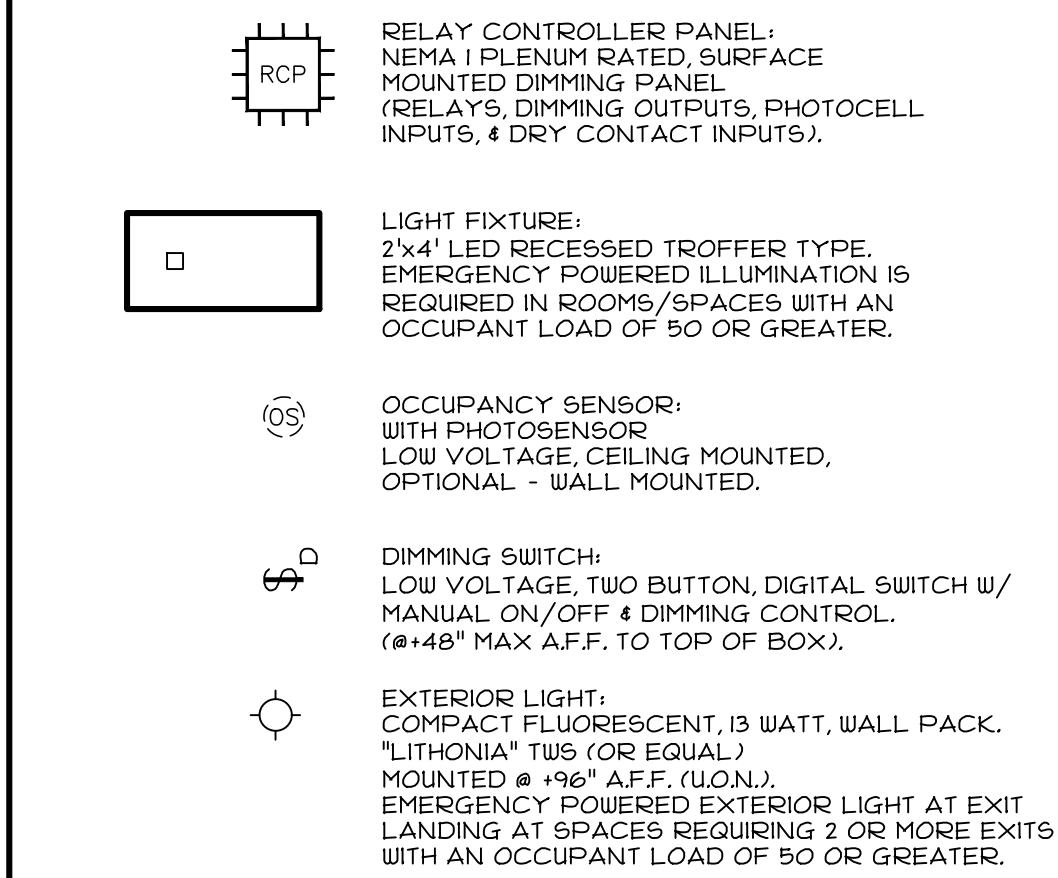
- NOT REQUIRED IF ROOM HAS <math>24\text{ FT}^2</math> OF GLAZING OR LIGHTING LOAD <math>< 120\text{ W}</math> IN THE SKYLIT AND THE SIDELIT DAYLIT ZONE.
- SMOOTH CONTINUOUS DIMMING.
- CUSTOM GROUPING OF FIXTURES INTO SEPARATE DAYLIGHT ZONES (MAX. NUMBER OF ZONES = NUMBER OF FIXTURES).

**MANUAL**

- ON/OFF & RAISE/LOWER CONTROL OF FIXTURES.
- TEACHER STATION WITH 4 PRESET SCENES.

**ADDITIONAL OPTIONS:**

- ROOM CAN BE CONNECTED TO NLIGHT BACKBONE TO ENABLE NETWORK CONTROL, TIME SCHEDULES AND AUTOMATED DEMAND RESPONSE (OPENADR 2.0A).
- HVAC CONTROL AVAILABLE THROUGH SYSTEM-WIDE BACNET INTERFACE OPTION ON THE ECLYPSE CONTROLLER.
- WIRELESS FIXTURE EMBEDDED CONTROL AND OCCUPANCY/DAYLIGHTING SENSOR OPTIONS AVAILABLE, PLEASE SEE THE FIXTURE SPECIFICATION SHEET.

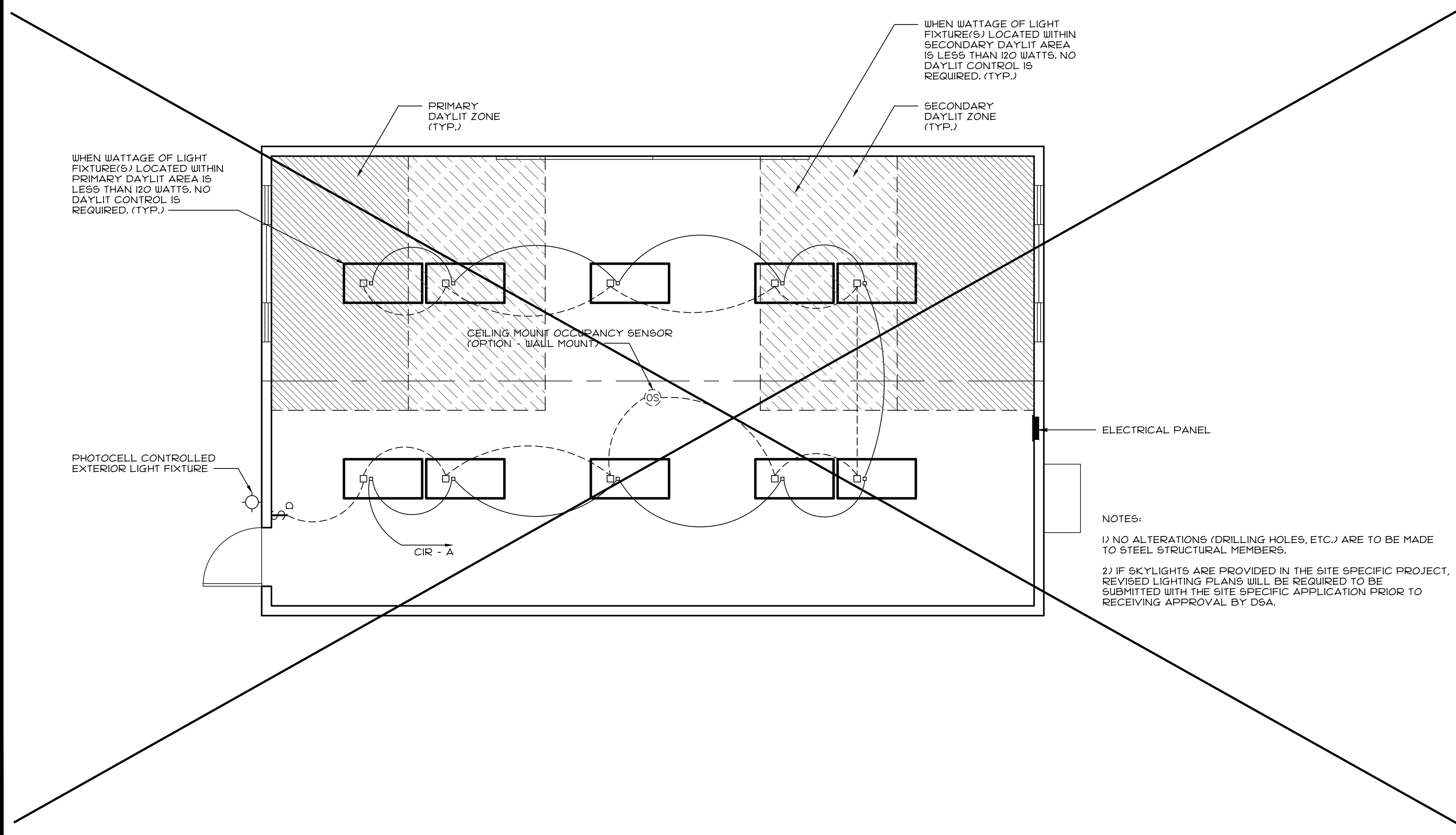


- LIGHTING FIXTURE: 2'x4' LED RECESSED TROFFER TYPE FIXTURES. W/LOW VOLTAGE DIMMING CONTROL SIGNAL, MAXIMUM 4000 LUMENS, MAX 38.9W. "LITHONIA" 2GTL 40L LP835 (OR EQUAL).
- DAYLIGHT CONTROL PHOTOCELL: ON/OFF AND AUTOMATIC DIMMING CONTROL, CEILING MOUNT, LOW VOLTAGE. "NLIGHT" nCM ADC OR nCM ADCX (OR EQUAL).
- LIGHT SWITCHES: ON/OFF & ON/OFF PLUS DIMMING, PUSH BUTTON, LOW VOLTAGE. "NLIGHT" nCM ADC OR nCM ADCX (OR EQUAL).
- OCCUPANCY SENSOR: LOW VOLTAGE, WALL MOUNT OR CEILING MOUNT.
- RELAY CONTROL PANEL: RELAY DIMMING PANEL, NEMA 1 PLENUM RATED, SURFACE MOUNTED. W/ 30A RELAYS, LOW VOLTAGE DIMMING OUTPUTS, PHOTOCELL OUTPUTS, DRY CONTACT INPUTS, AND OPTIONAL VOLTAGE BARRIER FOR EM CIRCUITS. "ACUITY BRANDS" (OR EQUAL)
- ILLUMINATED EXIT SIGNS: IF REQUIRED BY CODE, SHALL BE PROVIDED IN COMPLIANCE W/ C.B.C. 1015.
- MEANS OF EGRESS ILLUMINATION: WHERE (2) OR MORE EXITS ARE REQUIRED, SUCH EXITS SHALL HAVE INTERIOR AND EXTERIOR LANDINGS ILLUMINATED BY FIXTURES CAPABLE OF AUTOMATIC EMERGENCY POWER OF NOT LESS THAN 90 MINUTES. (INCLUDES AISLES, UNENCLOSED STAIRWAYS, CORRIDORS, EXTERIOR EGRESS COMPONENTS AT OTHER THAN LEVEL OF DISCHARGE, LABS, SHOPS, AND WINDOWLESS AREAS WITH STUDENT OCCUPANCY). SWITCHING OF EGRESS LIGHTING SHALL NOT BE ACCESSIBLE TO UNAUTHORIZED PERSONNEL PER C.B.C. 1008.
- SKYLIGHTS (IF OPTION IS INCLUDED IN SITE SPECIFIC PROJECT): GENERAL LIGHTING FIXTURES PLACED IN THE PRIMARY DAYLIT ZONE OF SKYLIGHTS SHALL BE CONTROLLED IN RESPONSE TO AVAILABLE DAYLIGHTING. REFER TO SHEET A5.1 FOR SKYLIGHT FRAMING AND DETAILS.
- ACCESSIBLE, INDEPENDENT SWITCHING OR A CONTROL DEVICE SHALL BE INCLUDED FOR ALL AREAS ENCLOSED BY CEILING HEIGHT PARTITIONS.
- ALL OUTDOOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCELL OR OUTDOOR ASTRONOMICAL TIME SWITCH CONTROL.
- FOR NON-POLE MOUNTED LUMINAIRES OVER 30 WATTS EACH: OUTDOOR LIGHTING WHERE BOTTOM OF LUMINAIRE IS MOUNTED 24 FEET OR LESS ABOVE THE GROUND SHALL BE CONTROLLED BY MOTION SENSORS OR OTHER CONTROLS CAPABLE OF REDUCING THE LIGHTING POWER OF EACH LUMINAIRE BY 40 TO 80% IN RESPONSE TO THE AREA BEING VACATED.
- PROVIDE ILLUMINATION FOR EXIT DISCHARGE FROM EACH EXIT TO PUBLIC WAY OR DISPERSAL AREA PER C.B.C. 1008.2.3.

#### 4 LIGHTING LEGEND

#### 5 LIGHTING SPECIFICATIONS

#### 1 LIGHTING CONTROLS - SEQUENCE OF OPERATION DIAGRAMS



**LIGHTING PLAN**  
SCALE: 1/4"=1'-0"

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10/11/2023

REGISTERED PROFESSIONAL ENGINEER  
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**ROBERTS FERRY ES**  
at  
**ROBERTS FERRY UESD**

**LIGHTING PLAN & NOTES**

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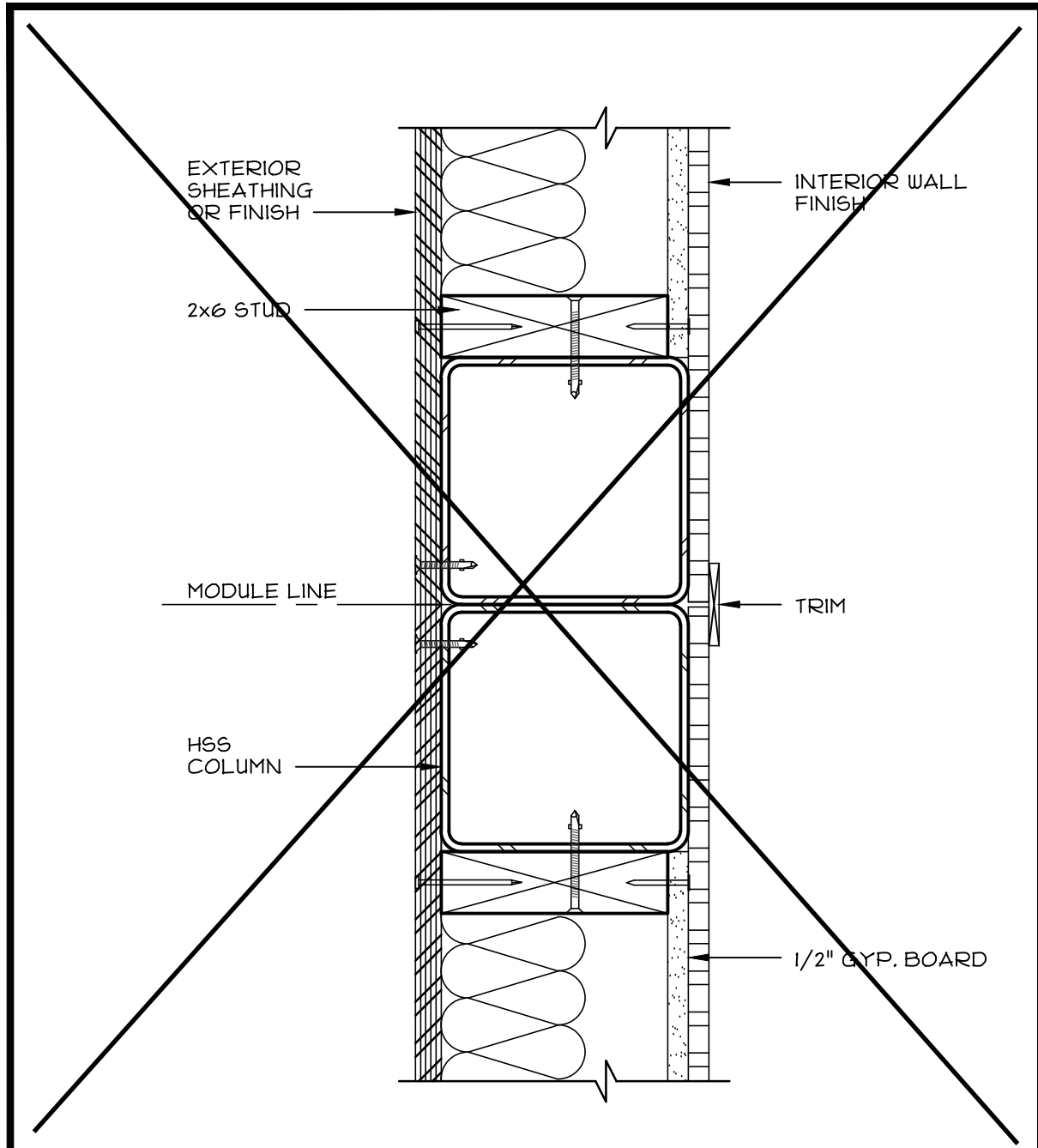
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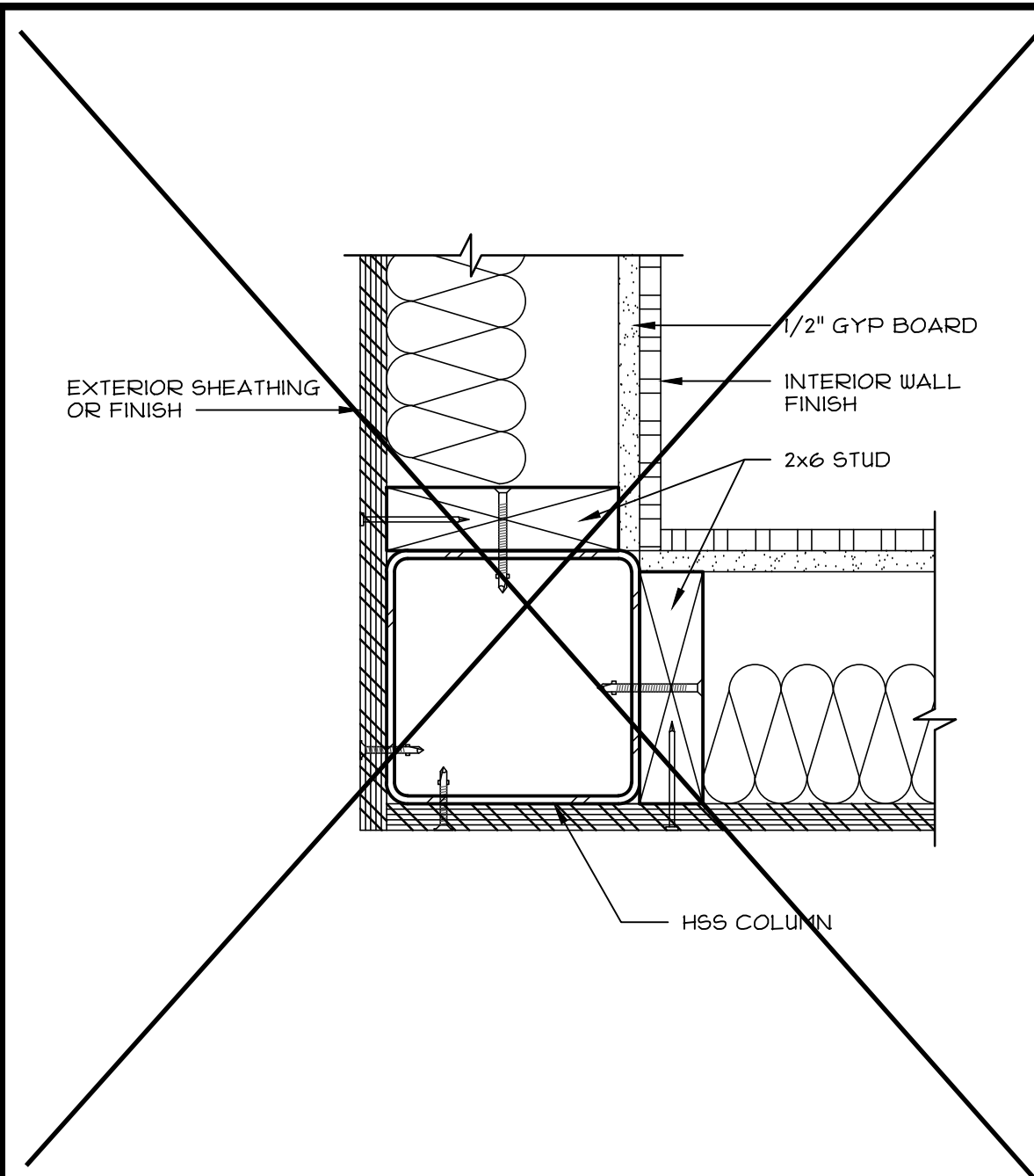
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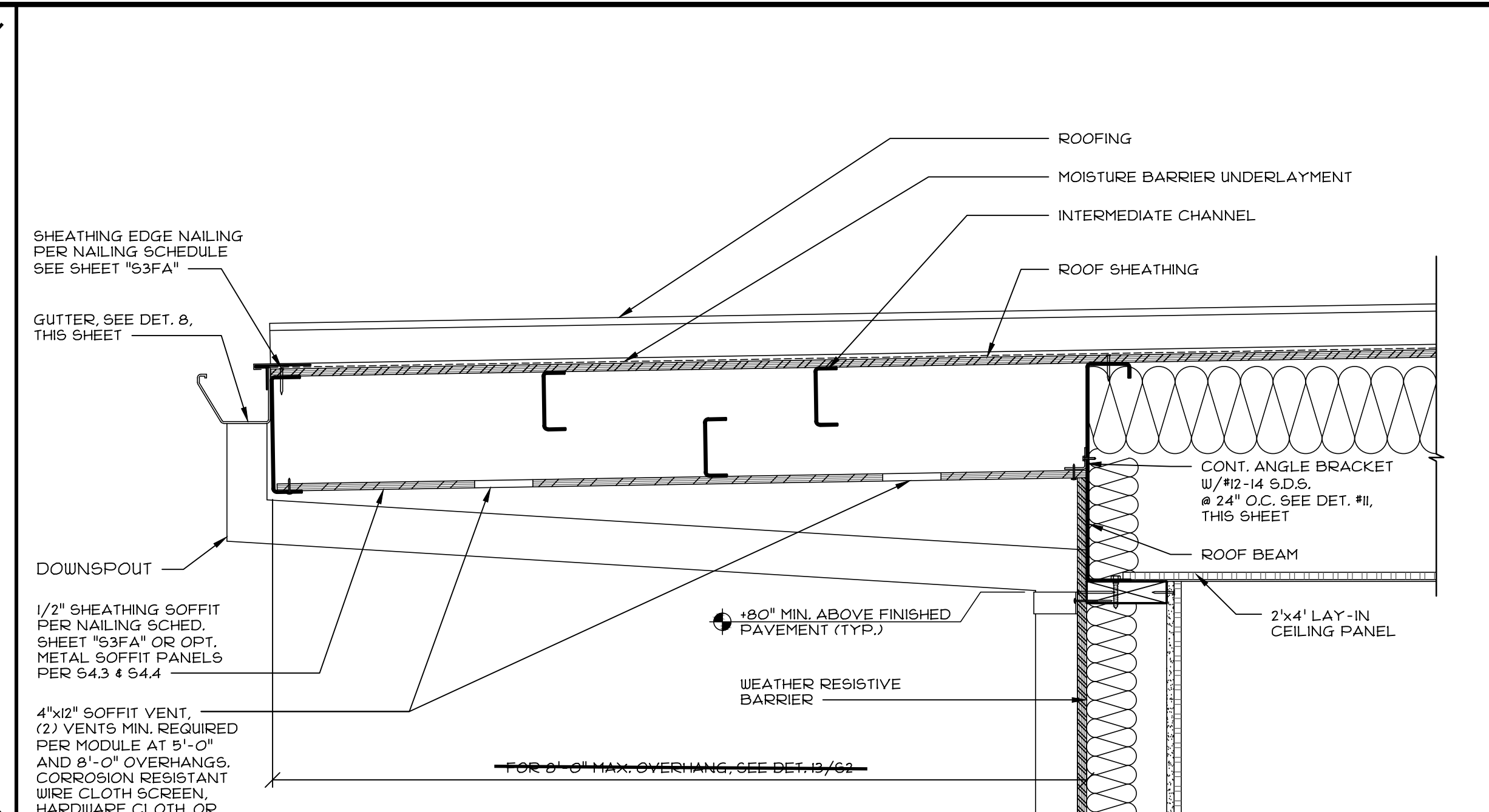




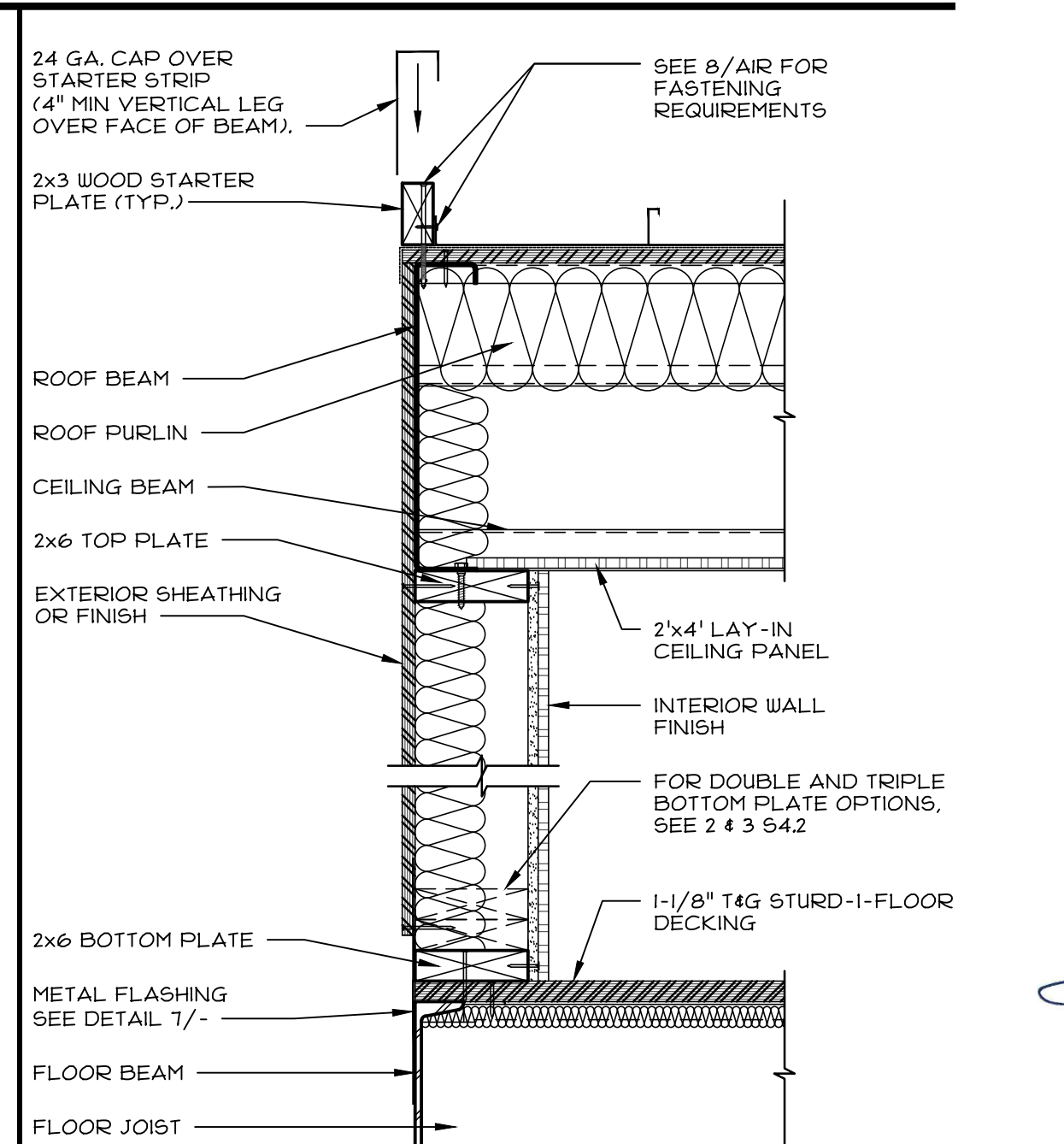
1 SECTION - 6x6 COLUMN @ MOD. LINE  
SCALE: 3/4"=1'-0"



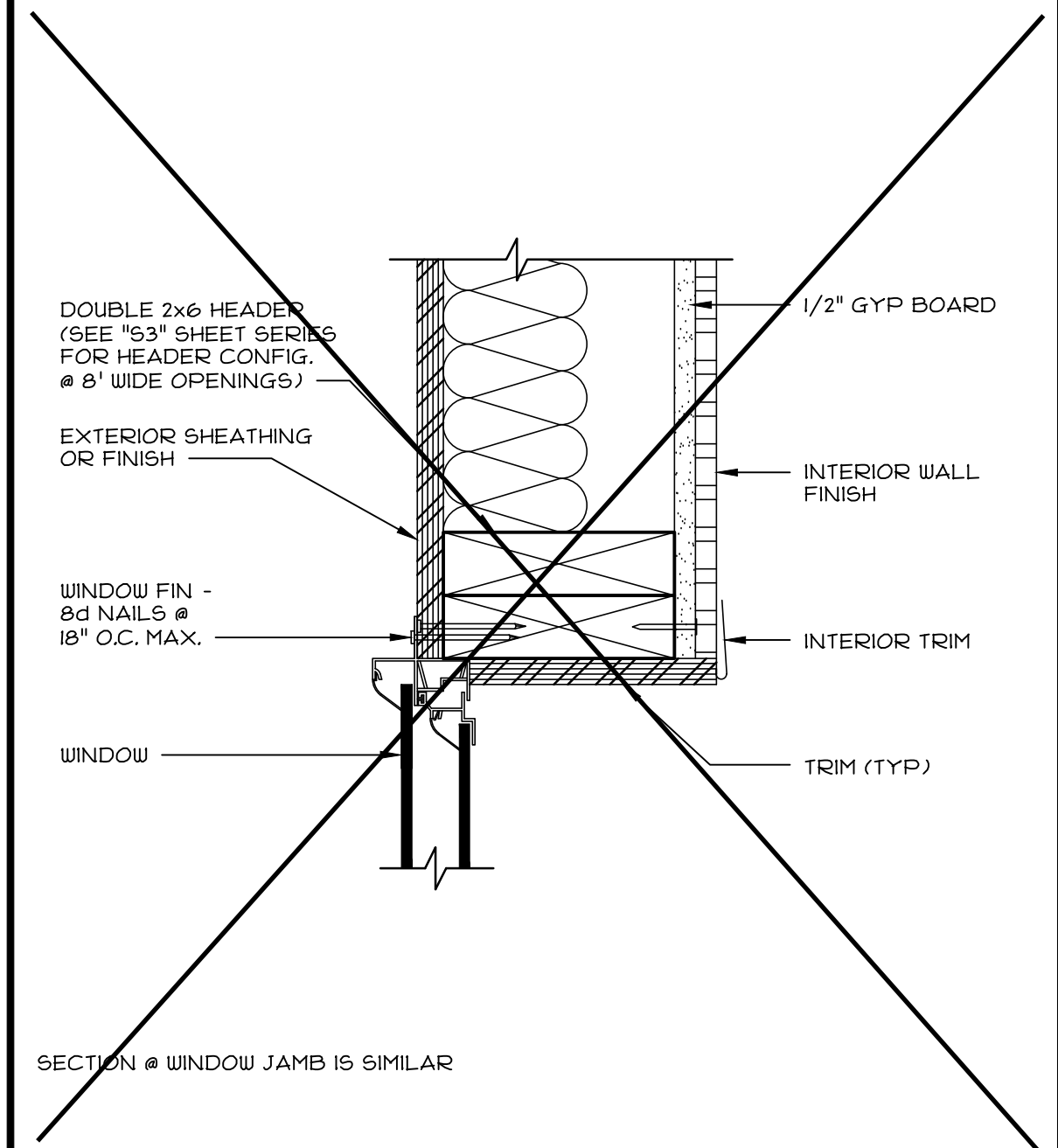
2 SECTION - 6x6 COLUMN @ CORNER  
SCALE: 3/4"=1'-0"



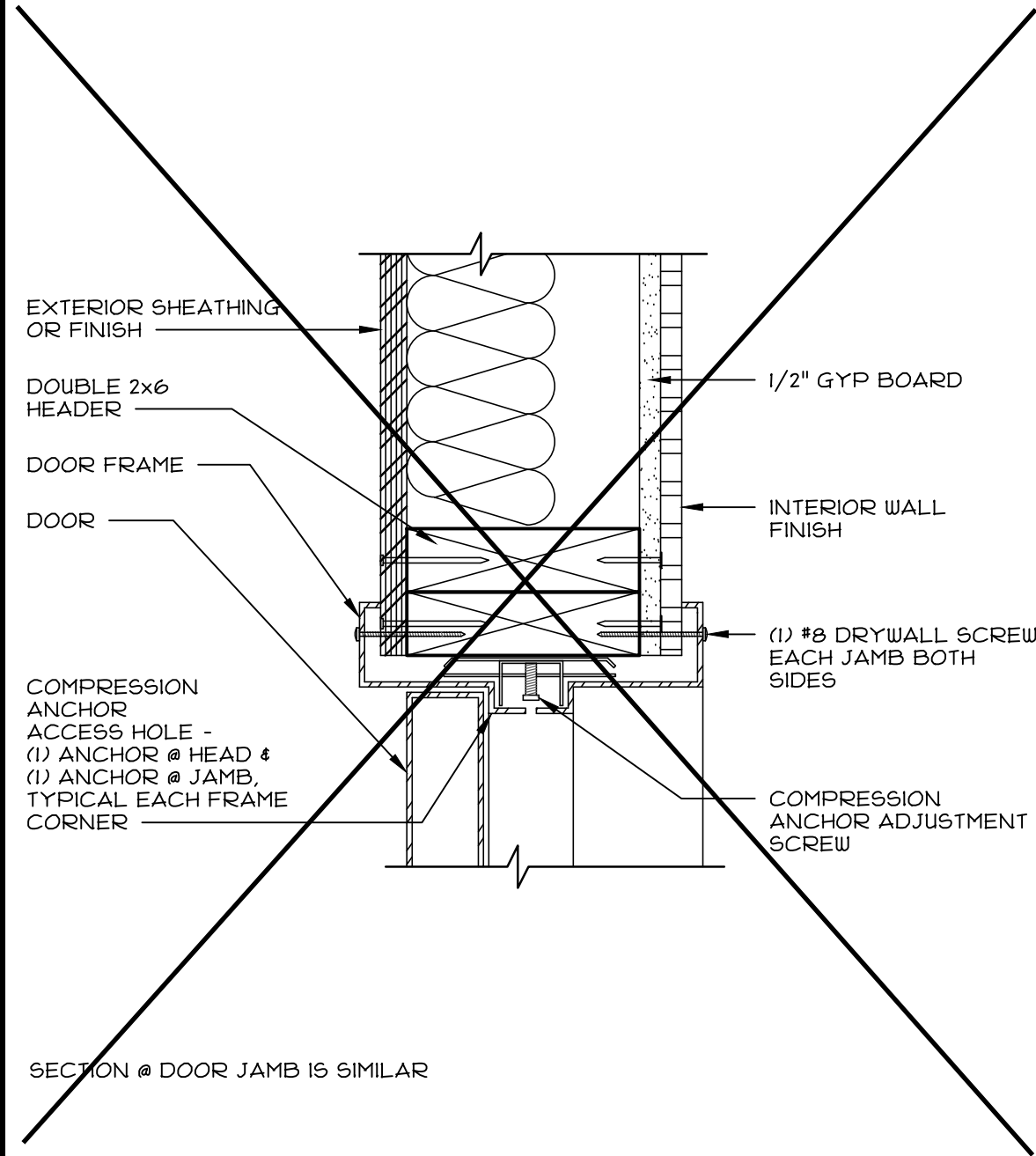
7 SECTION - FRONT OVERHANG (REAR SIMILAR)  
SCALE: 1 1/2"=1'-0"



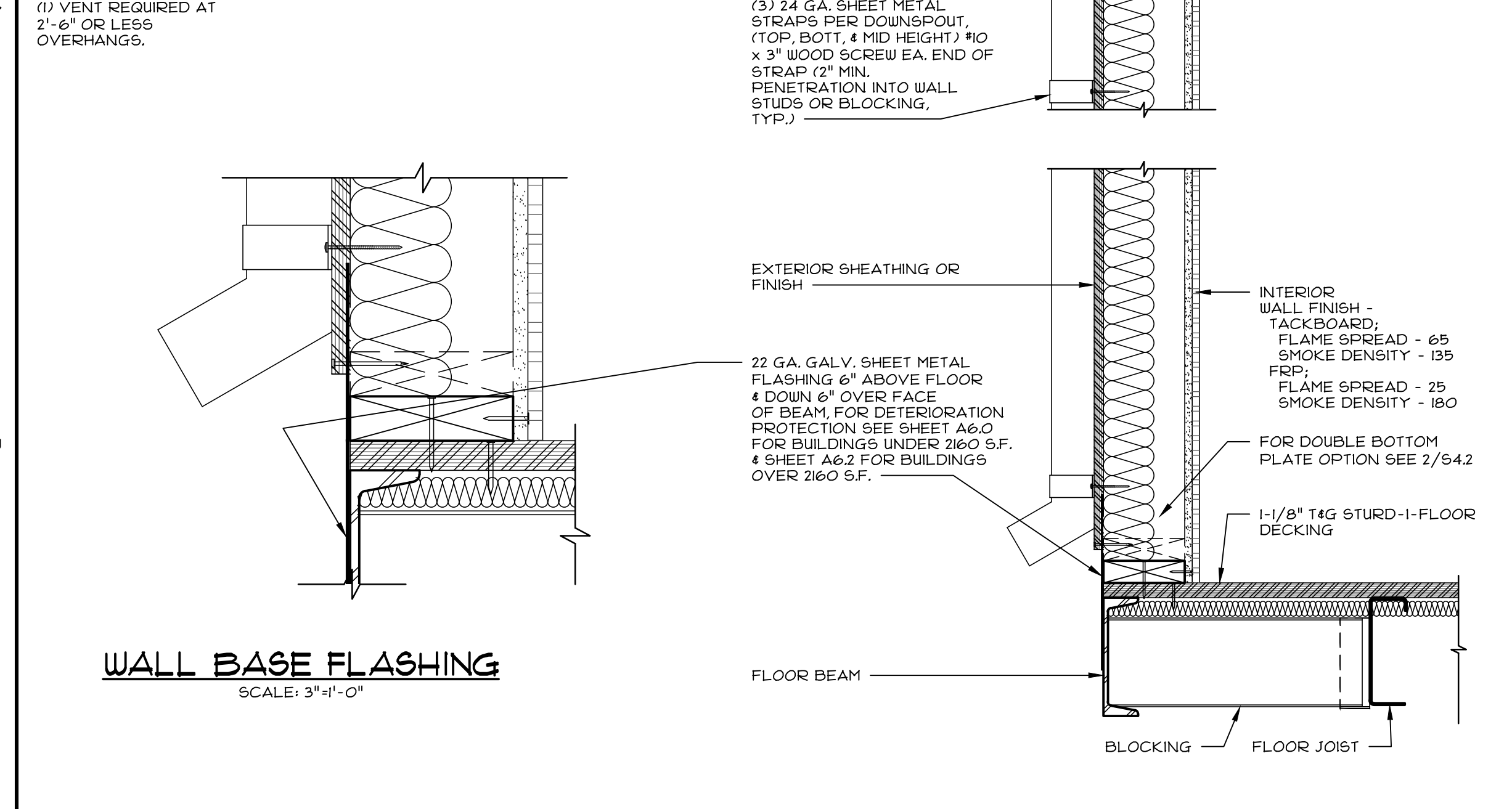
9 SECTION - @ SIDEWALL  
SCALE: 1 1/2"=1'-0"



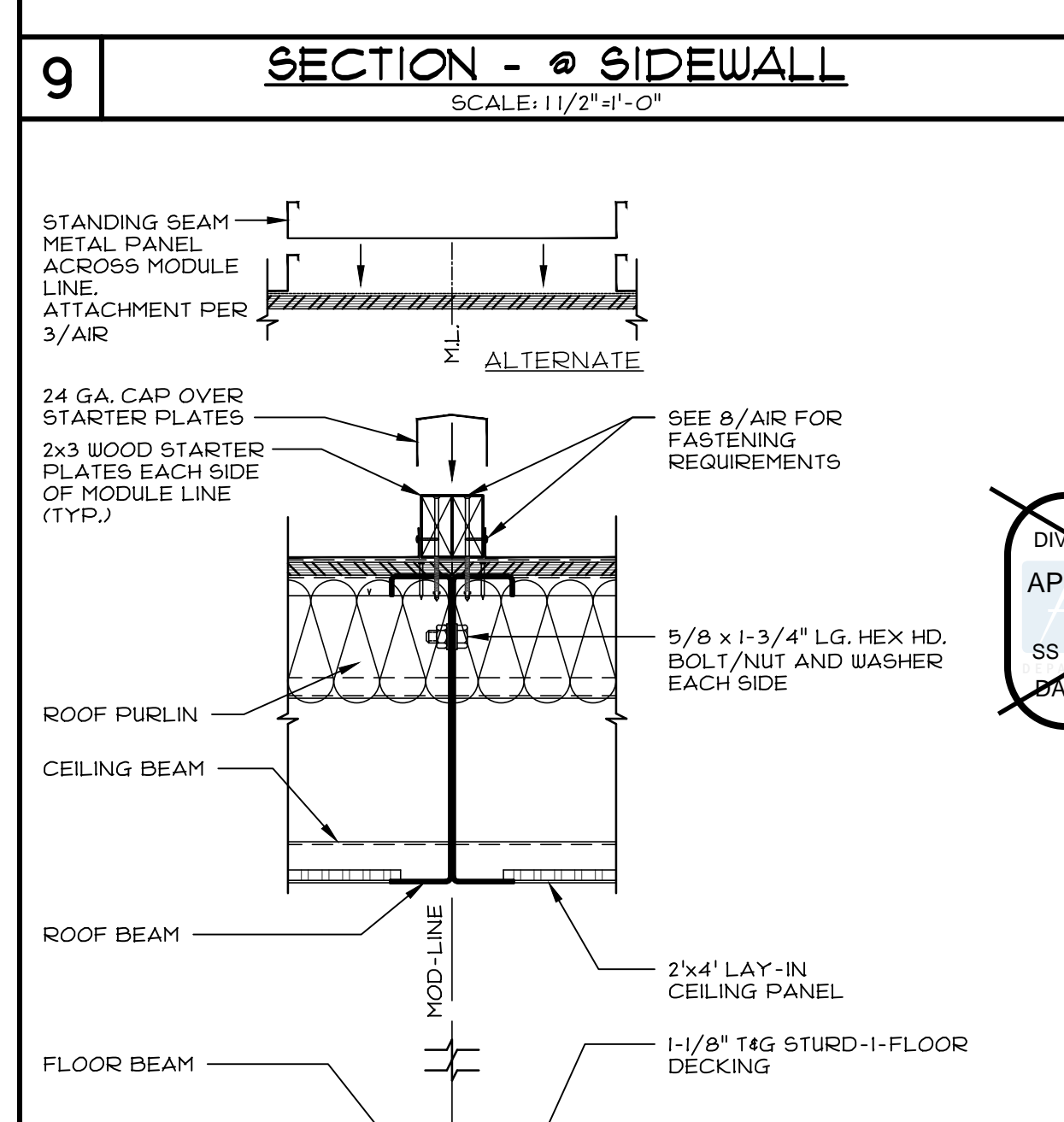
3 SECTION - WINDOW HEADER  
SCALE: 3/4"=1'-0"



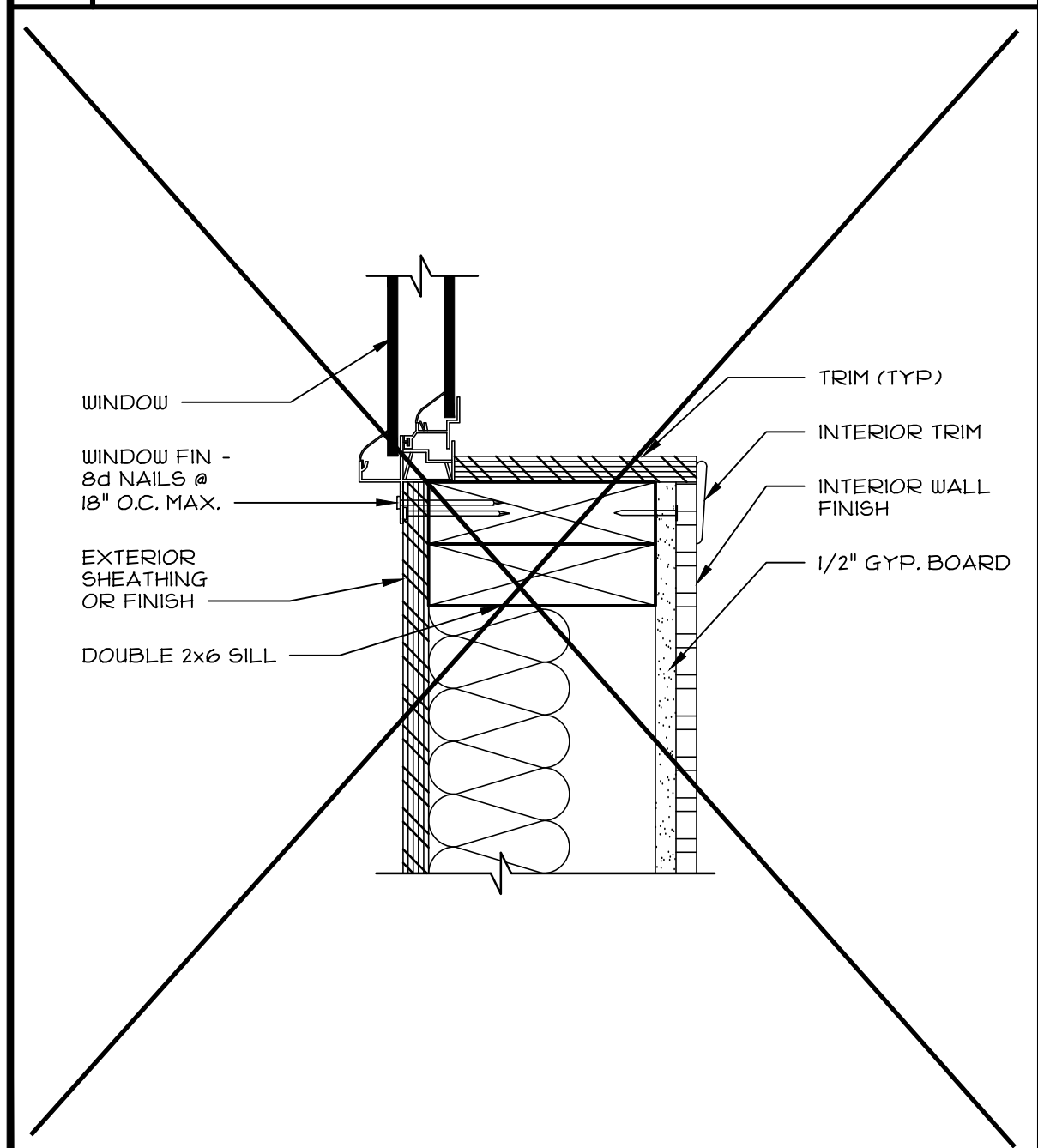
4 SECTION - DOOR HEADER  
SCALE: 3/4"=1'-0"



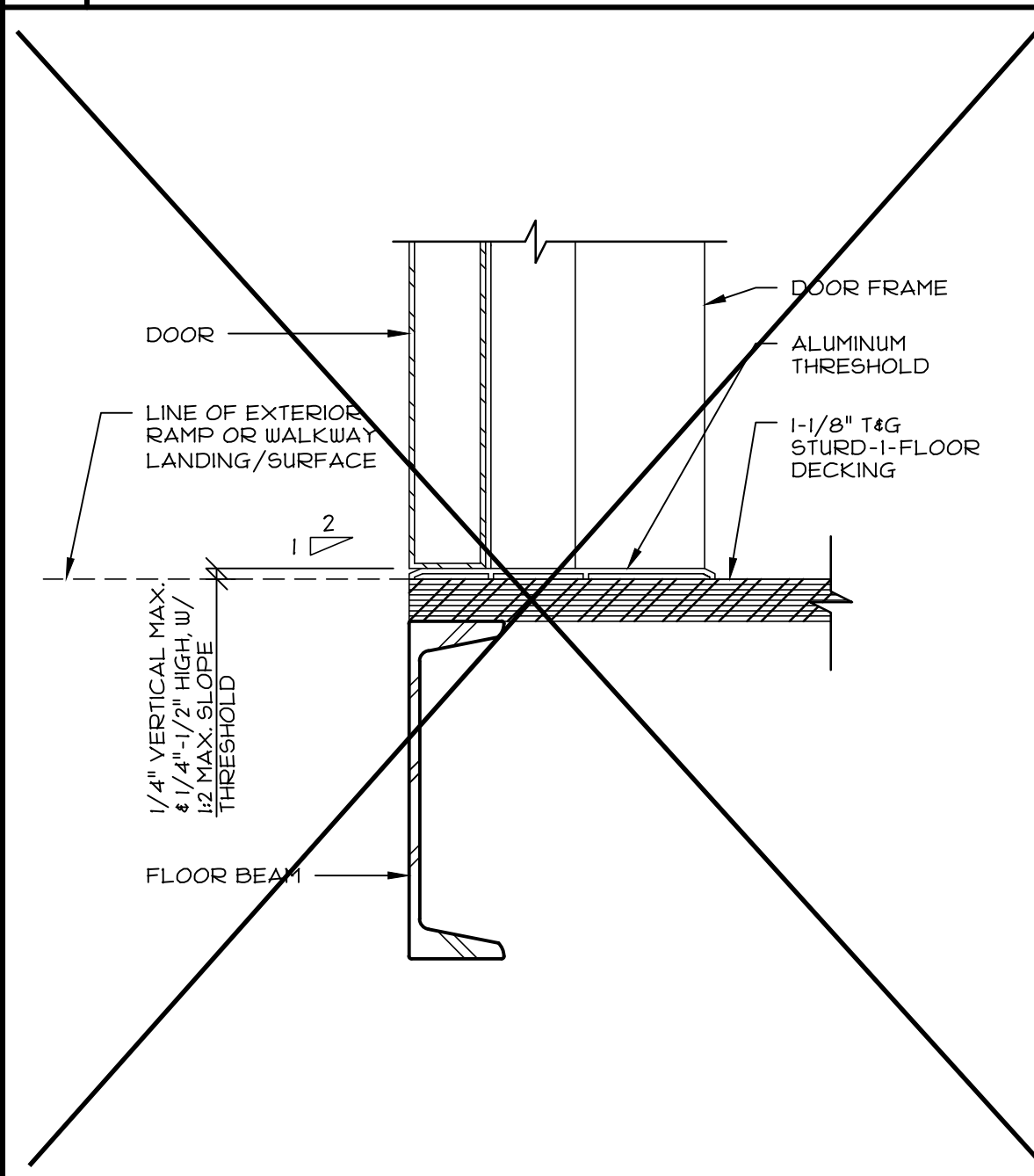
8 TYP. GUTTER INSTALLATION  
SCALE: 3/4"=1'-0"



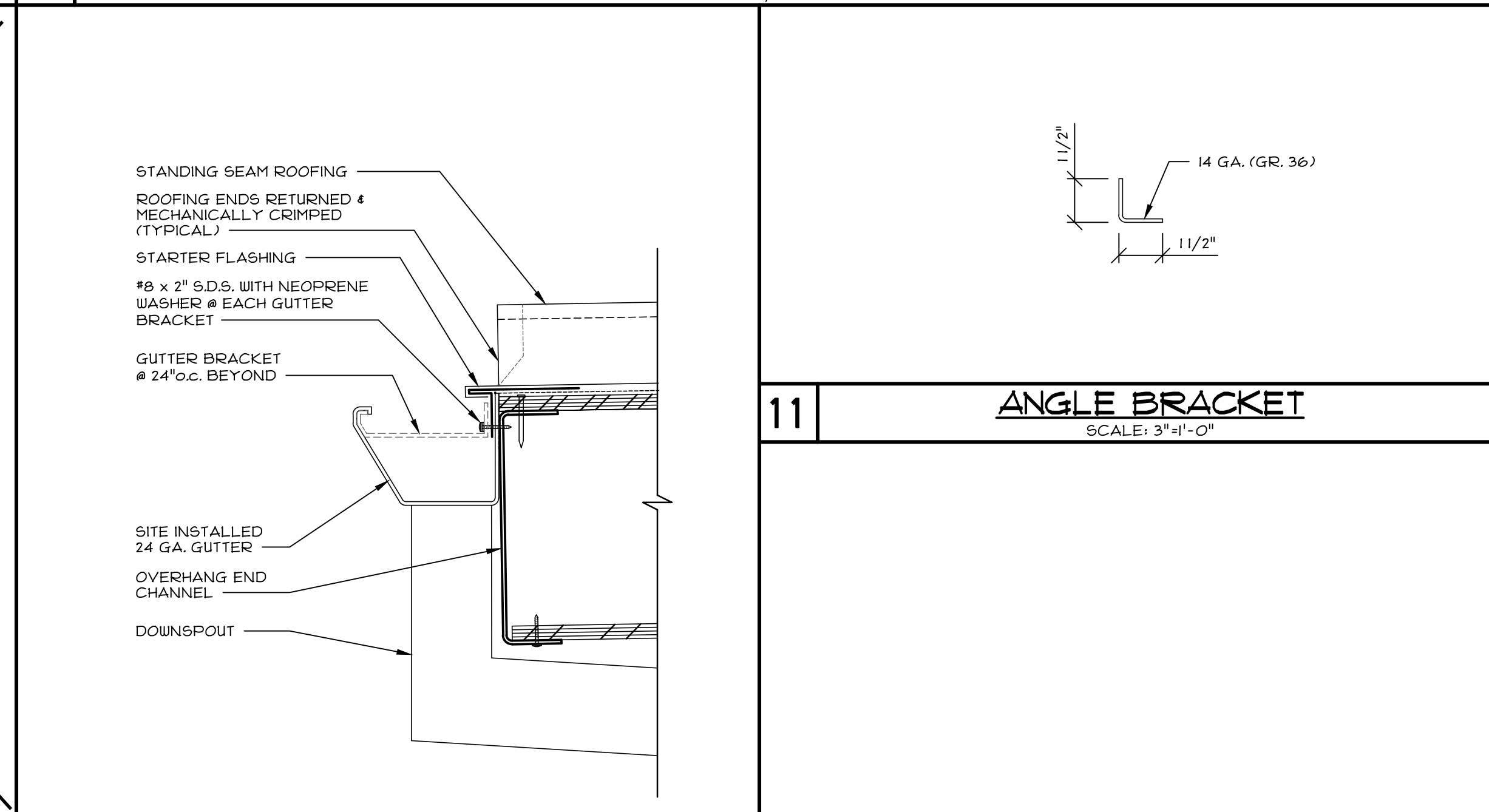
10 SECTION - @ MODULE LINE  
SCALE: 1 1/2"=1'-0"



5 SECTION - WINDOW SILL  
SCALE: 3/4"=1'-0"



6 SECTION - DOOR THRESHOLD  
SCALE: 3/4"=1'-0"



11 ANGLE BRACKET  
SCALE: 3/4"=1'-0"

12 SHEET NOTES

NOTES:

- ALL EXTERIOR WALL SHEATHING/SIDING SHALL BE INSTALLED OVER CLASS I OR II VAPOR BARRIER.
- FOR FASTENER SCHEDULE, SEE SHEET S3FA

PRE-CHECK (PC) DOCUMENT  
Code: 2022 CBC  
A separate project application for construction is required.

12 SHEET NOTES

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ROBERTS FERRY ES  
at  
ROBERTS FERRY UESD

BI-PITCH ROOF  
SECTIONS AND DETAILS  
(2x6 EXTERIOR WALLS)

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

A4.1.R

# STUCCO MATERIAL SPECIFICATIONS

## STUCCO MATERIALS

- A. Building Moisture Barrier: 2 - layers, 60 minute Grade D Building Paper, ASTM D-828, as tested per ASTM E-96
- B. Stucco Netting: Standard No. 17 gauge, 1-1/2-inch mesh, galvanized stucco lath, self furring (FS QQ-L-101C), K-Lath: 1-1/2" x 17 GA Self-furred woven stucco netting.
- C. Lathing Accessories: Not less than No. 26 gauge steel, zinc-coated by Superior, Western Metal Lath, Inryco/Milcor, or Keene Furnish and install all inside and outside corner reinforcement, casing beads, base, drip, and weep screeds, strip lath, control and expansion joints, wall reveals, soffit vents, and any other accessories indicated or required to complete the installation. 7/8" typical ground size thickness.
  1. Foundation sill weep screed (perforated)/stucco stop: Western Metal Lath No. 7 Foundation Weep Screed, 26 gauge-galvanized steel.
  2. Control Joint: Western Metal Lath No. X115-3 control joint, 26 gauge galvanized steel.
  3. Internal Corner Control Joint: Western Metal Lath No. 30 internal corner control joint, 26 gauge-galvanized steel.
  4. Casing Bead: Western Metal Lath No. 66 Expanded Flange Casing Bend, 24 gauge, galvanized steel.
  5. External Corner Reinforcement: Stockton "Corneraid" exterior corner reinforcing.
- D. Lath Tie Wire: No. 18 gauge galvanized soft steel wire.
- E. Lath Fastenings:
  1. Nails for attaching stucco lath to wood framing and sheathing shall be galvanized box or roofing nails, long enough to penetrate sheathing and framing to minimum depth of 1-1/4". At the Contractor's option, #14 or #16 gauge galvanized wire staples may be used, providing again they shall penetrate sheathing and framing to depth of 1". Nails or staples shall securely engage the back wires of self-furring lath and penetrate framing as required for holding power. For standard or plain stucco netting, use standard furring nails, furring from 3/4" to 3/8", with minimum penetration into framing of 1-1/4".
- F. Portland Cement Plaster:
  1. Thickness: Typically, unless otherwise shown, 7/8" total, scratch, brown, and finish at 3/8," 3/8," and 1/8" coat thickness each, respectively; proportions in accordance with ASTM C926.

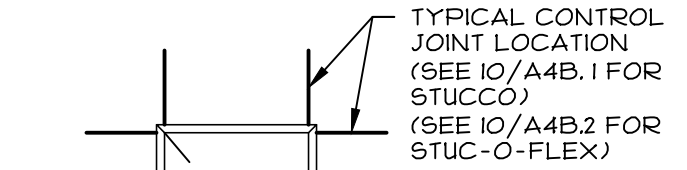
## APPLICATION OF BUILDING PAPER

- A. Install Building Moisture Barrier, before installing lath, over all exterior sheathing board for surfaces to receive cement plaster as follows:
  1. Apply asphalt felt moisture barrier over sheathing horizontally, lapping sides 2" to weather and ends 6". Secure sufficiently with staples to hold in place without sagging until second layer is applied. Two layers of 60 minute Grade D moisture barrier to be installed separately. Stagger joints.
  2. Apply second layer of asphalt felt moisture barrier vertically over first layer at inside and outside corners
  3. Any penetrations, punctures, tears or damages in asphalt felt moisture barrier shall be repaired or replaced per Architect's instruction prior to lath application.
- B. All window, door, vent, utility pipe, etc. penetration through cement plaster walls and surfaces shall comply with the Western Conference of Lathing and Plastering Institutes, Inc. "Penetration Flashing Recommendation"

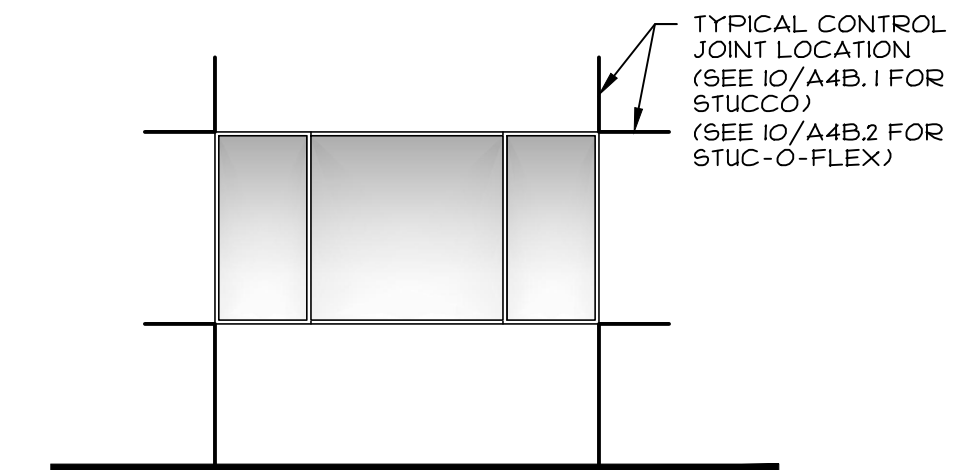
## APPLICATION OF LATH AND ACCESSORIES

- A. Cement Plaster shall be used at, and only at, all vertical locations unless otherwise noted on drawings. Cement Plaster shall not be used on horizontal surfaces unless otherwise noted on drawings
- B. Apply lath directly over Moisture Barrier with fasteners to sheathing and framing members hereinbefore specified, spaced not more than 6" apart vertically and 16" apart horizontally, directly over framing members. Nails shall engage the lath securely with washers as required. Laps of plaster lath shall be 1" minimum and shall be laced with #18 gauge galvanized soft steel wire. If plain or standard stucco netting is used, apply in same manner, except that fasteners shall include furring washers. Attach lath per CBC 2507.3.
- C. Install all required plaster grounds, base, drip, and weep screeds, corner reinforcement, special stops, control joints, strip lath, and other metal accessories. Apply and shim out to required thickness. Set plumb, level and straight, free of kinks and bends. Install casing beads or stops at the edges of all plaster continuously. Provide expansion joints or control joints where indicated or required by referenced standards. Location of all control joints shall be approved by the Architect prior to installation do not install in conspicuous location unless approved by the Architect. Intersections and splices of control joints shall be set in continuous bead of sealant. Control joints, expansion joints, wall reveals and soffit vents shall be cleaned and clear of plaster within the control, expansion, reveal and vent areas after plaster application and before final plaster set. Do not use sharp instruments or tools that might remove galvanized coating from plaster accessories. Casing beads shall not be installed redundantly where wood trims are shown as stucco grounds in details (i.e. windows, doors, etc.).

NOTE:  
CONTROL JOINTS SHALL OCCUR AT OPENINGS AS SHOWN BELOW.  
CONTROL JOINTS SHALL BE PLACED ON BLANK WALLS NOT MORE THAN 10'-0" O.C. APART HORIZONTALLY AND VERTICALLY.



AT TYPICAL DOOR



AT TYPICAL SINGLE WINDOW

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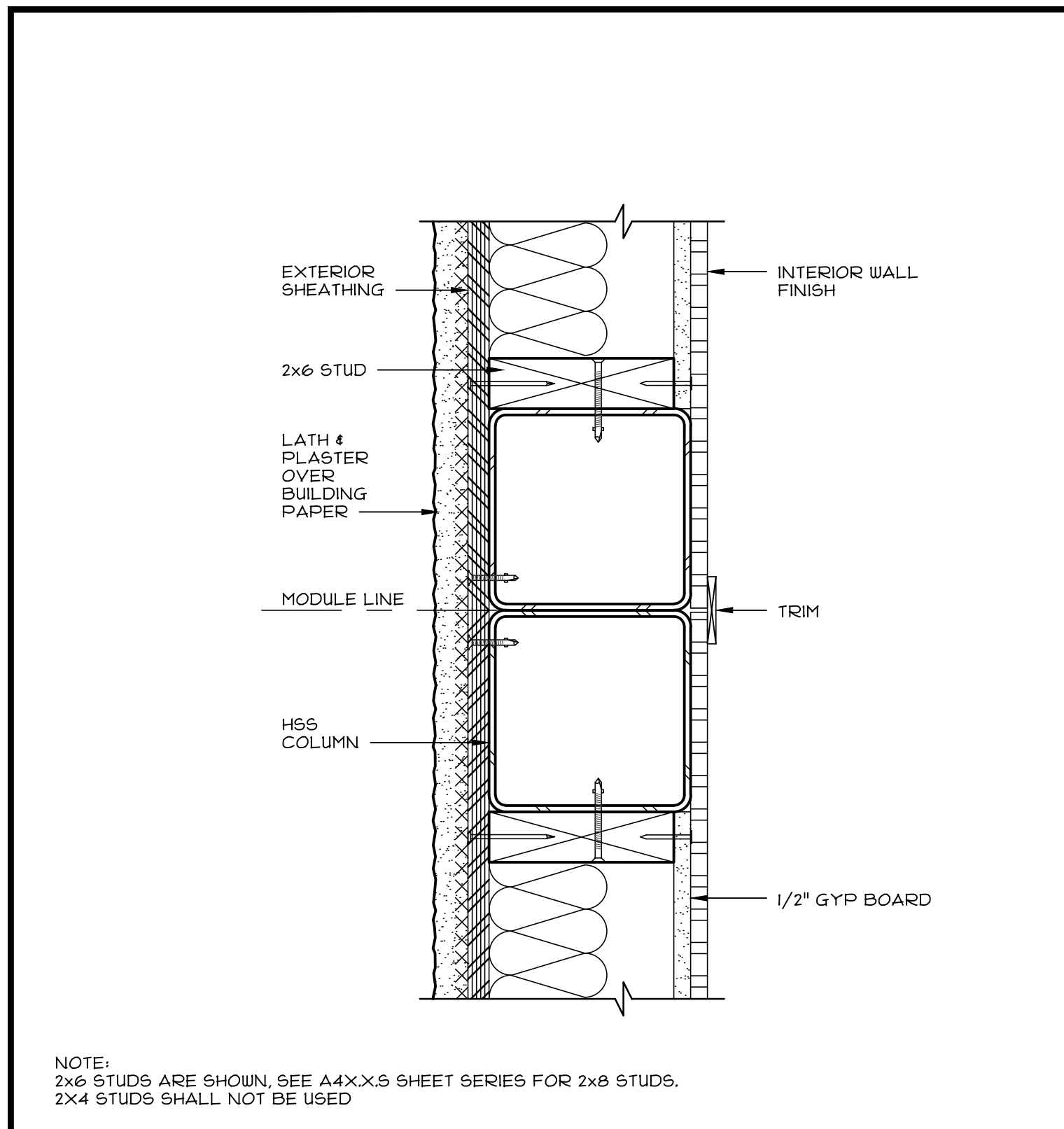
ROBERTS FERRY ES  
at  
ROBERTS FERRY UESD

STUCCO MATERIAL SPECIFICATIONS

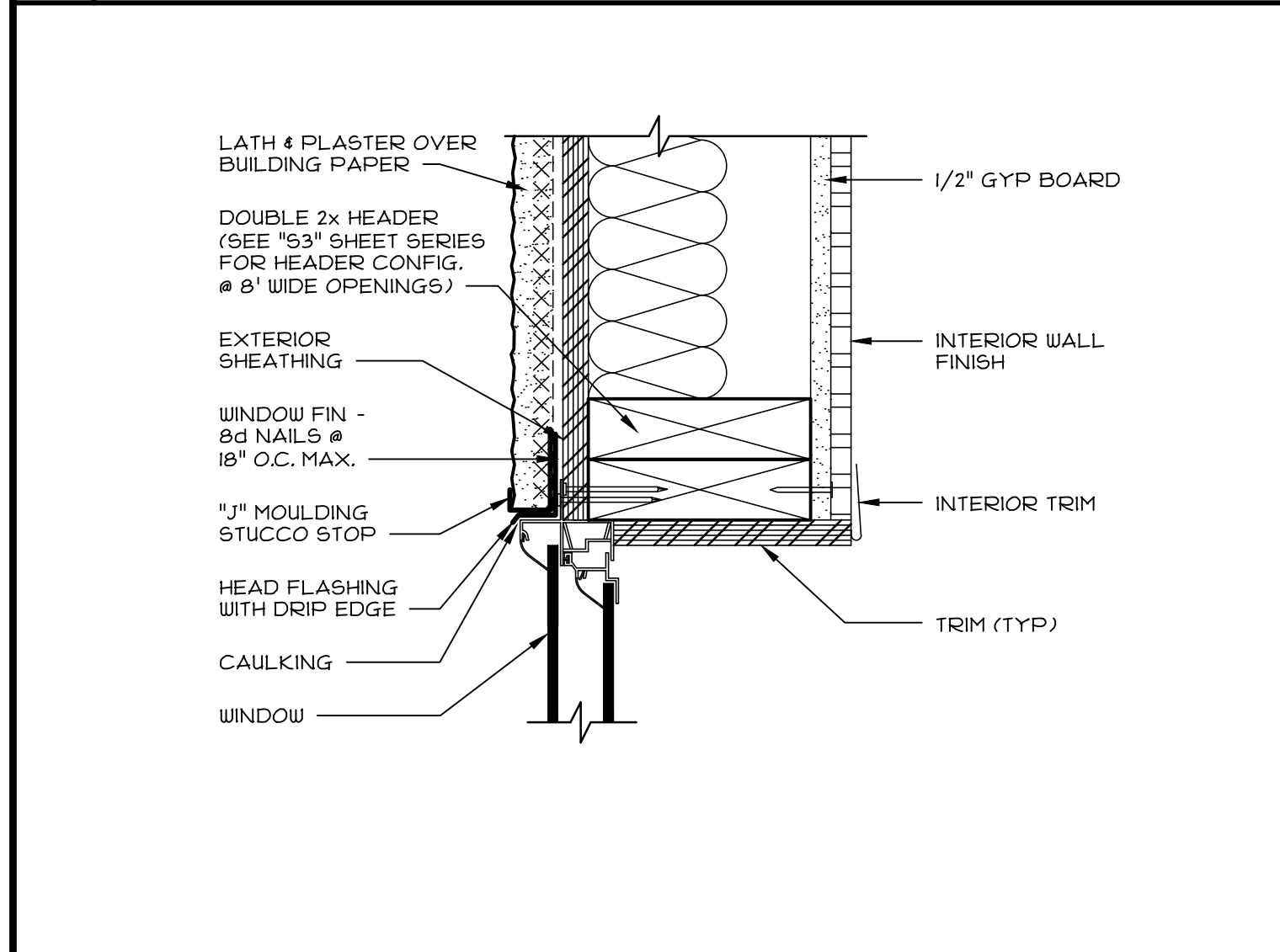
1 | TYPICAL CONTROL JOINT PLACEMENT

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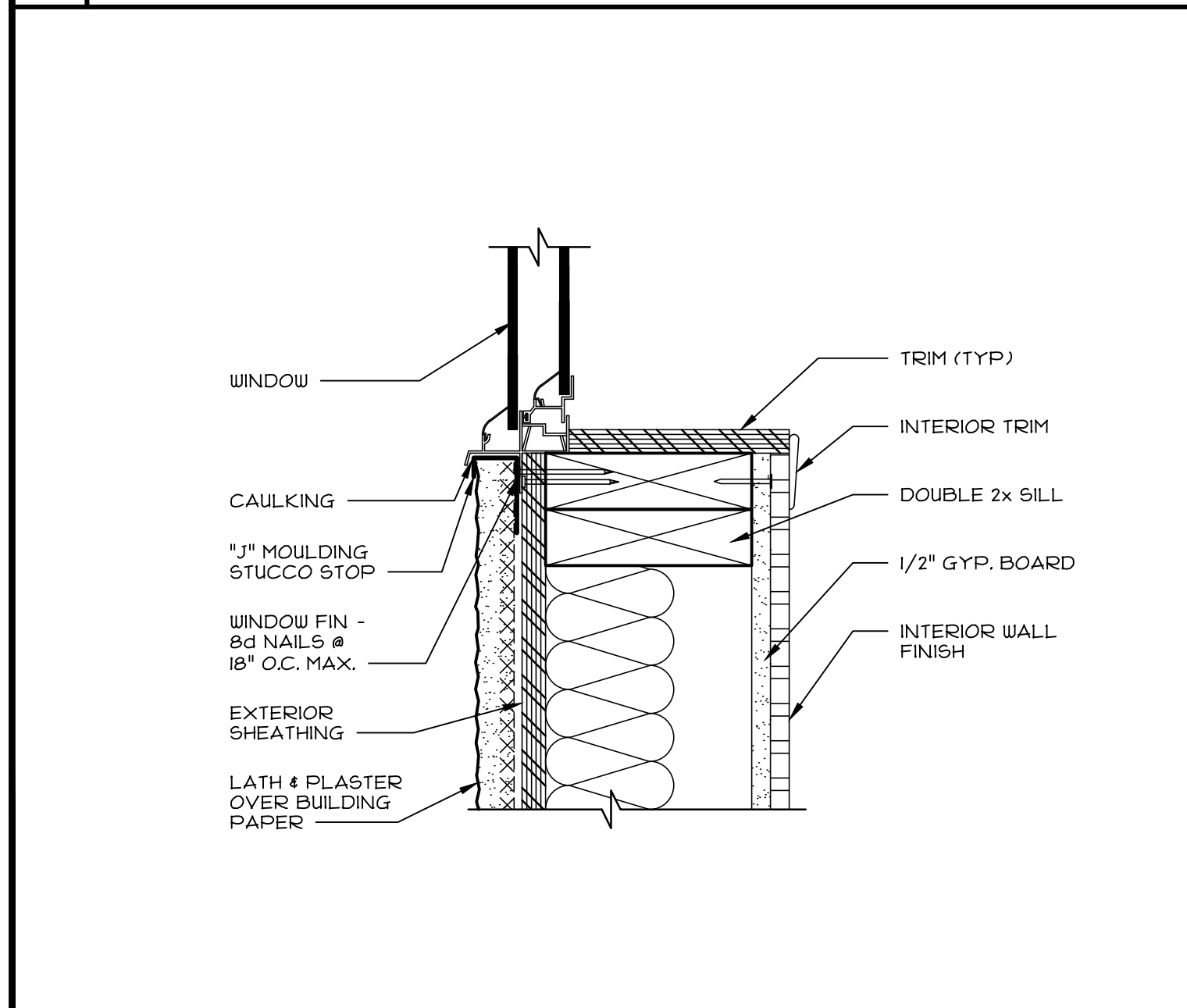
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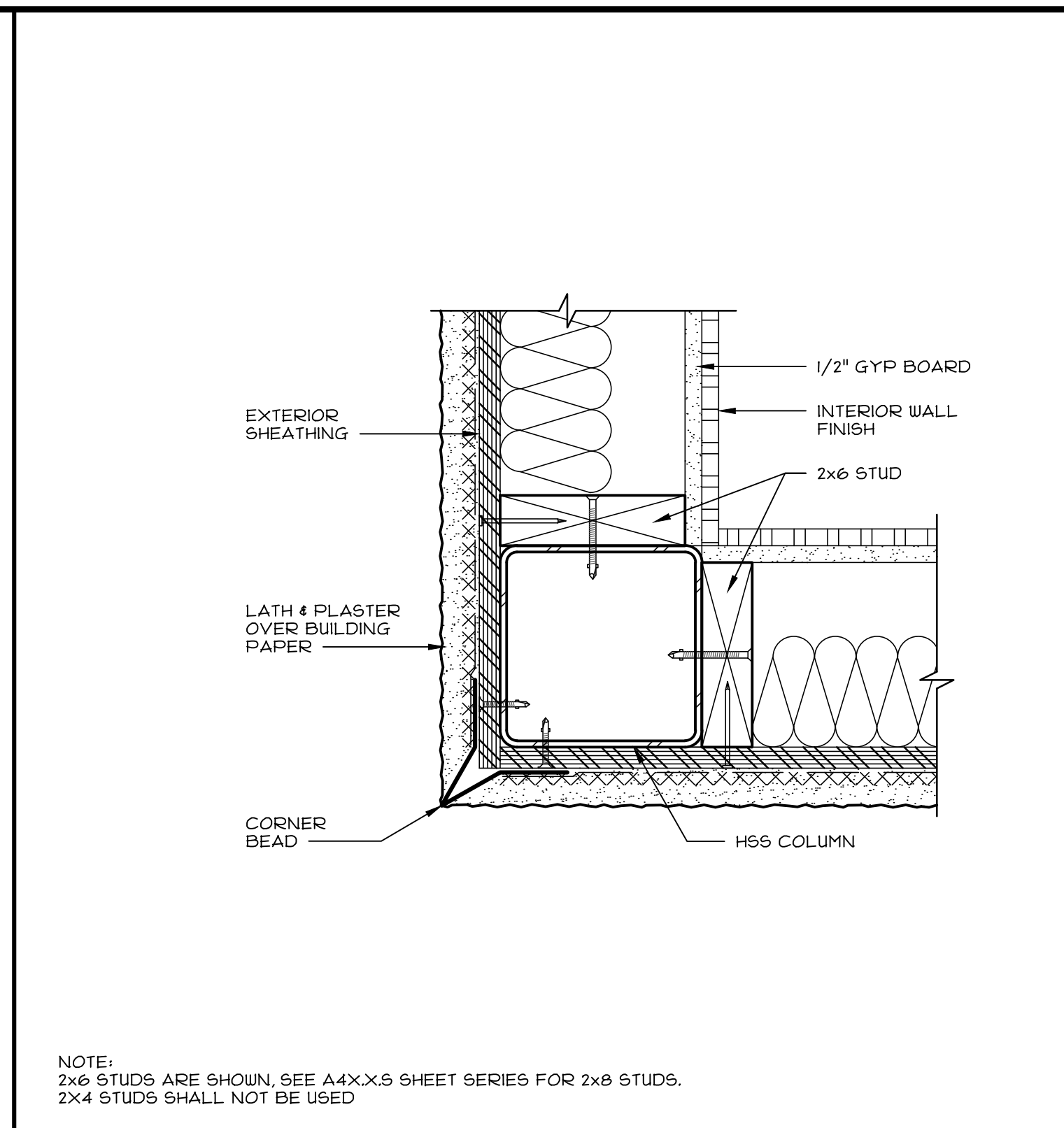
1 SECTION - COLUMN @ MOD. LINE  
SCALE: 3/4"=1'-0"



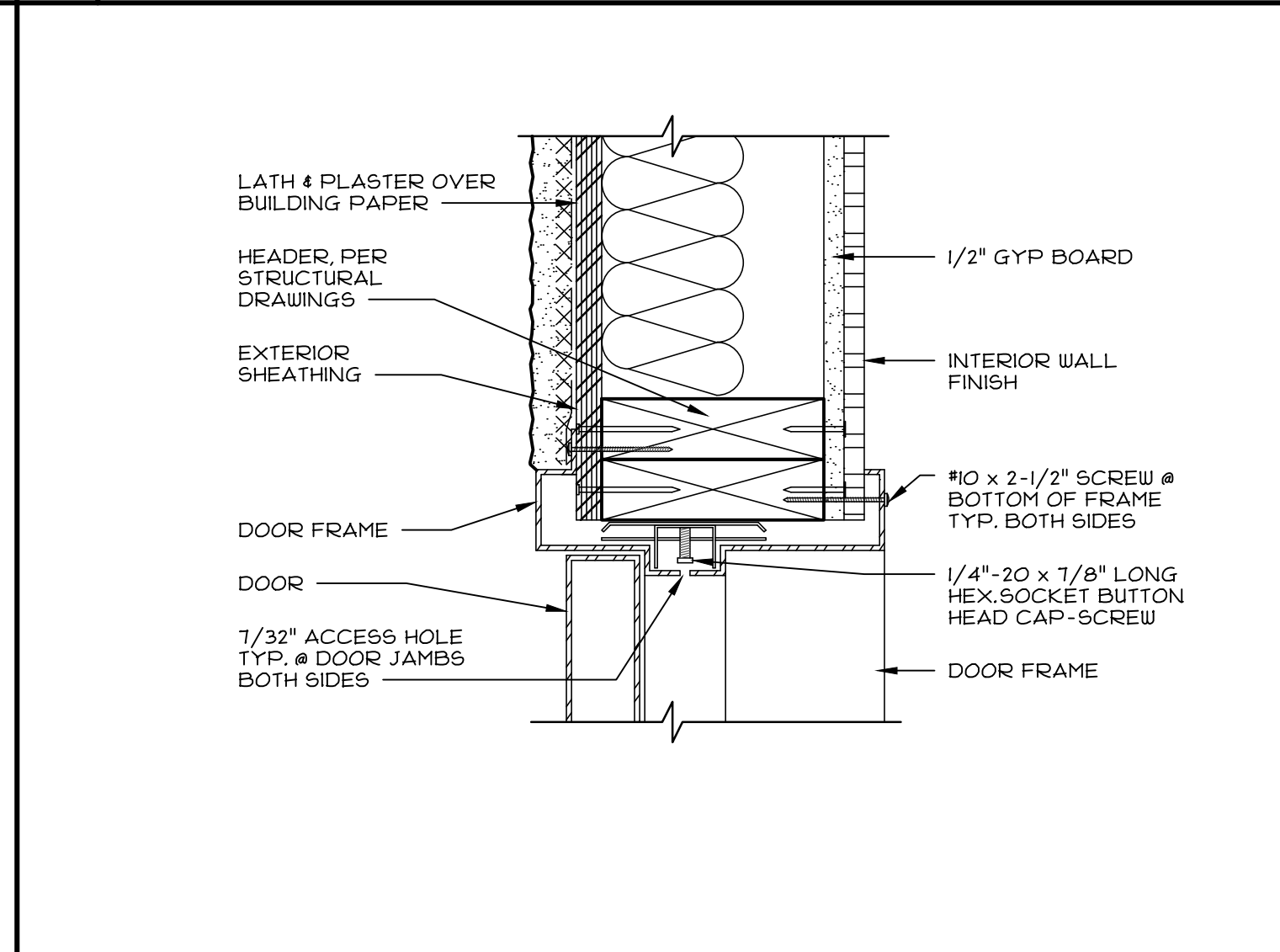
3 SECTION - WINDOW HEADER (JAMB SIMILAR)  
SCALE: 3/4"=1'-0"



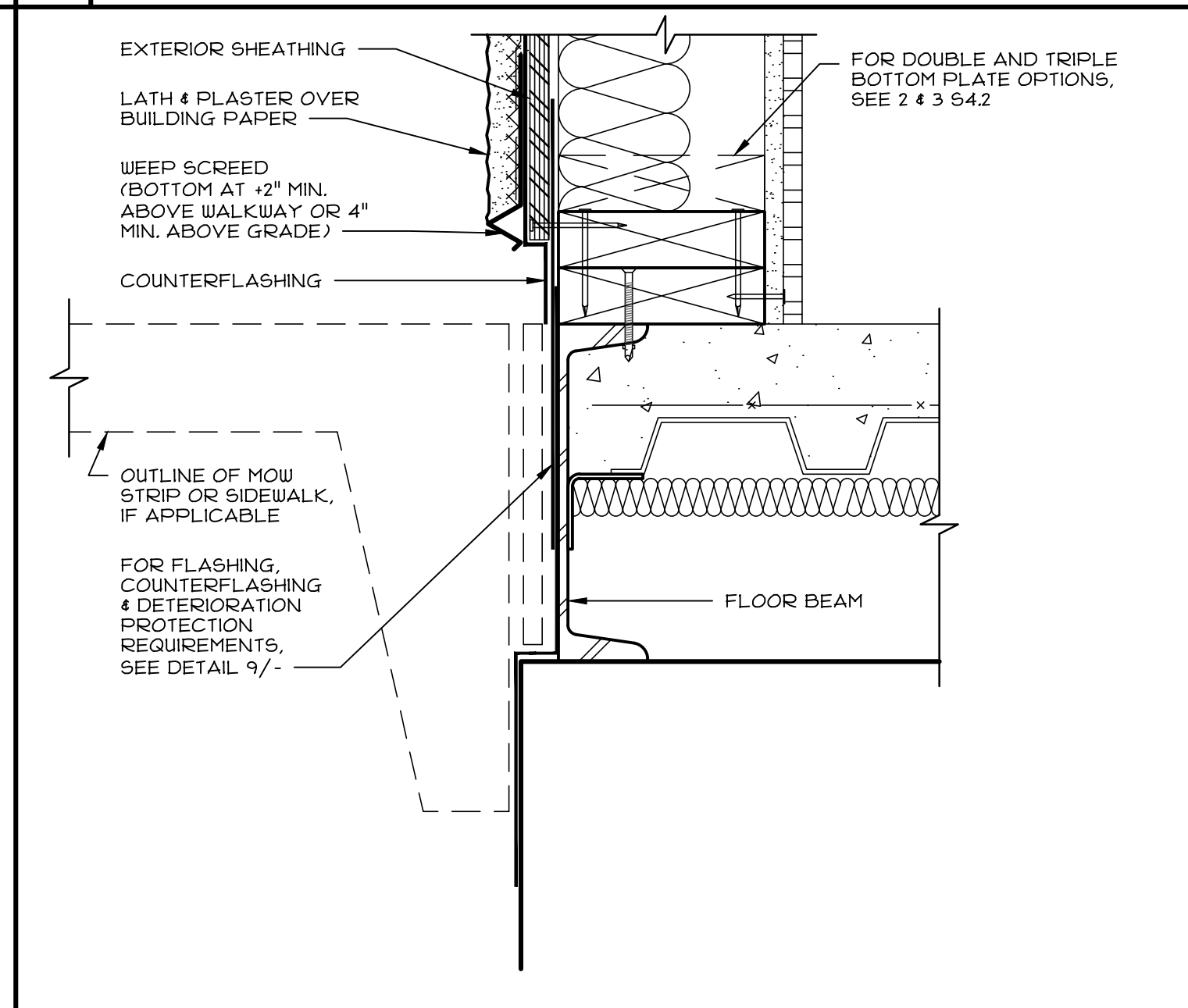
5 SECTION - WINDOW SILL  
SCALE: 3/4"=1'-0"



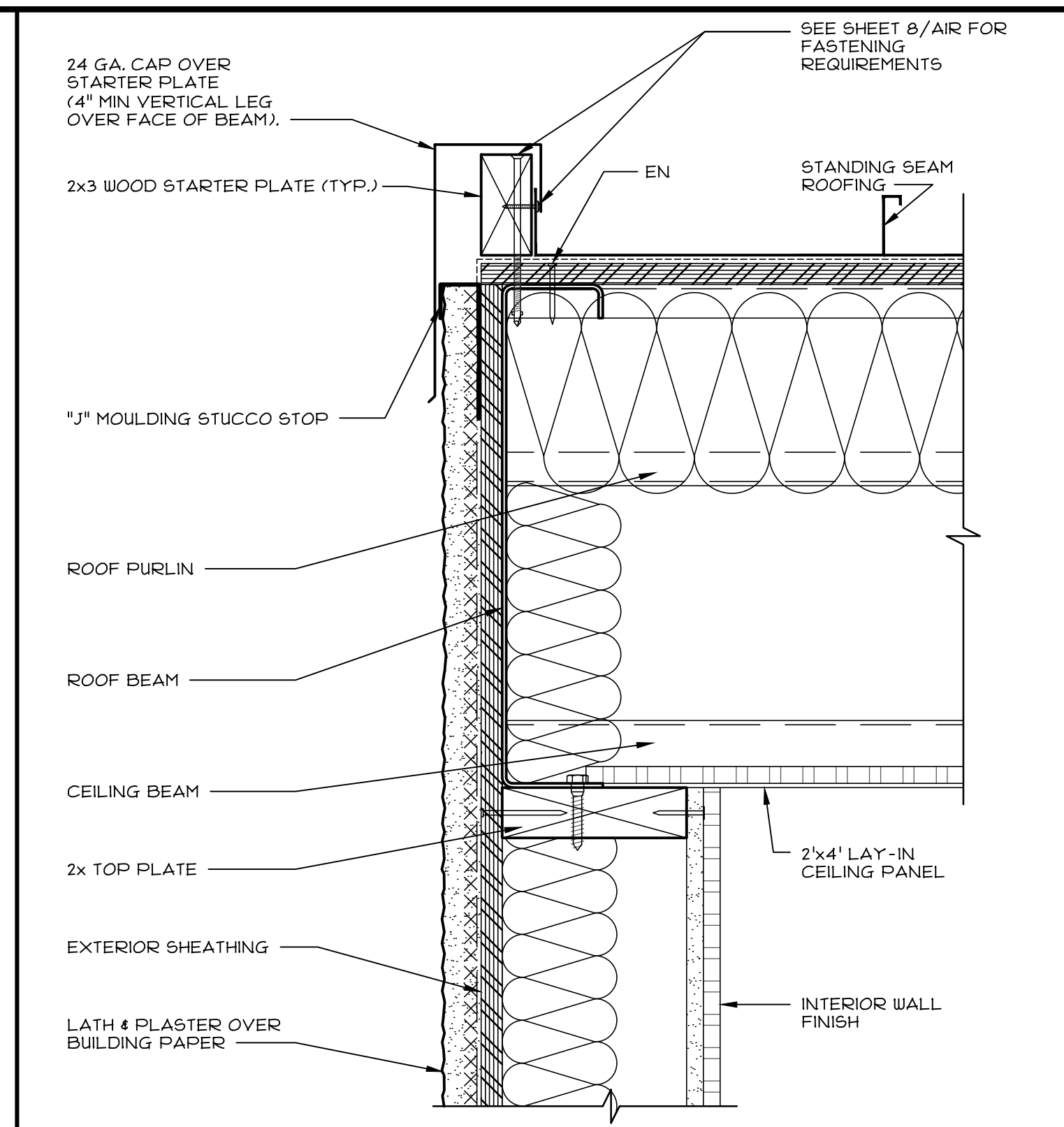
2 SECTION - COLUMN @ CORNER  
SCALE: 3/4"=1'-0"



4 SECTION - DOOR HEADER (JAMB SIMILAR)  
SCALE: 3/4"=1'-0"



6 BASE FLASHING DETAIL - (CONC. FLOOR)  
SCALE: 3/4"=1'-0"



7 SECTION - SIDEWALL ROOF LINE  
SCALE: 3/4"=1'-0"

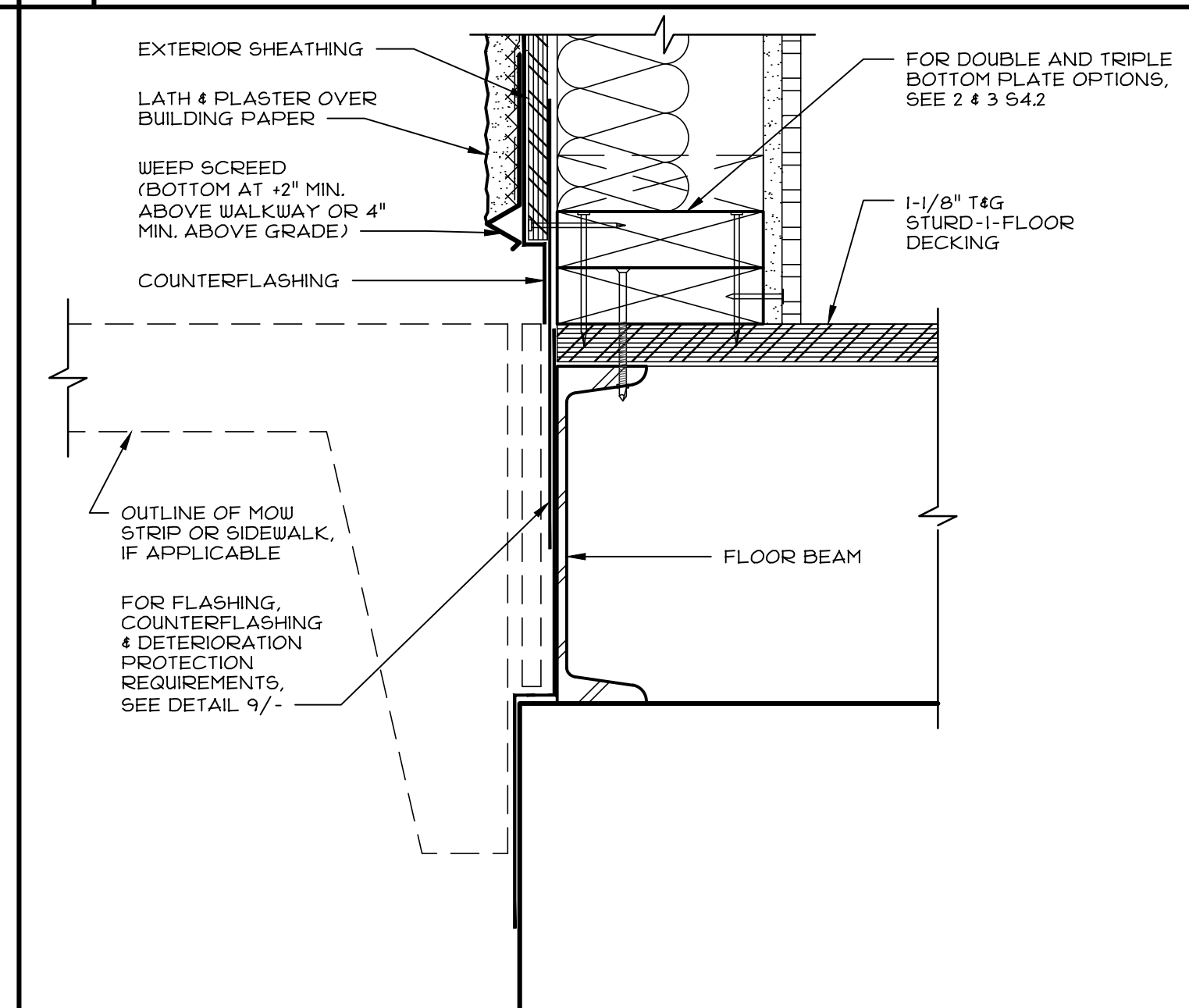
**PLYWOOD FLOOR SHEET REFERENCES**

STUD SIZE	BUILDINGS UNDER 2160 S.F.	BUILDINGS OVER 2160 S.F.
2x6 OR 2x8	A6.0	A6.2

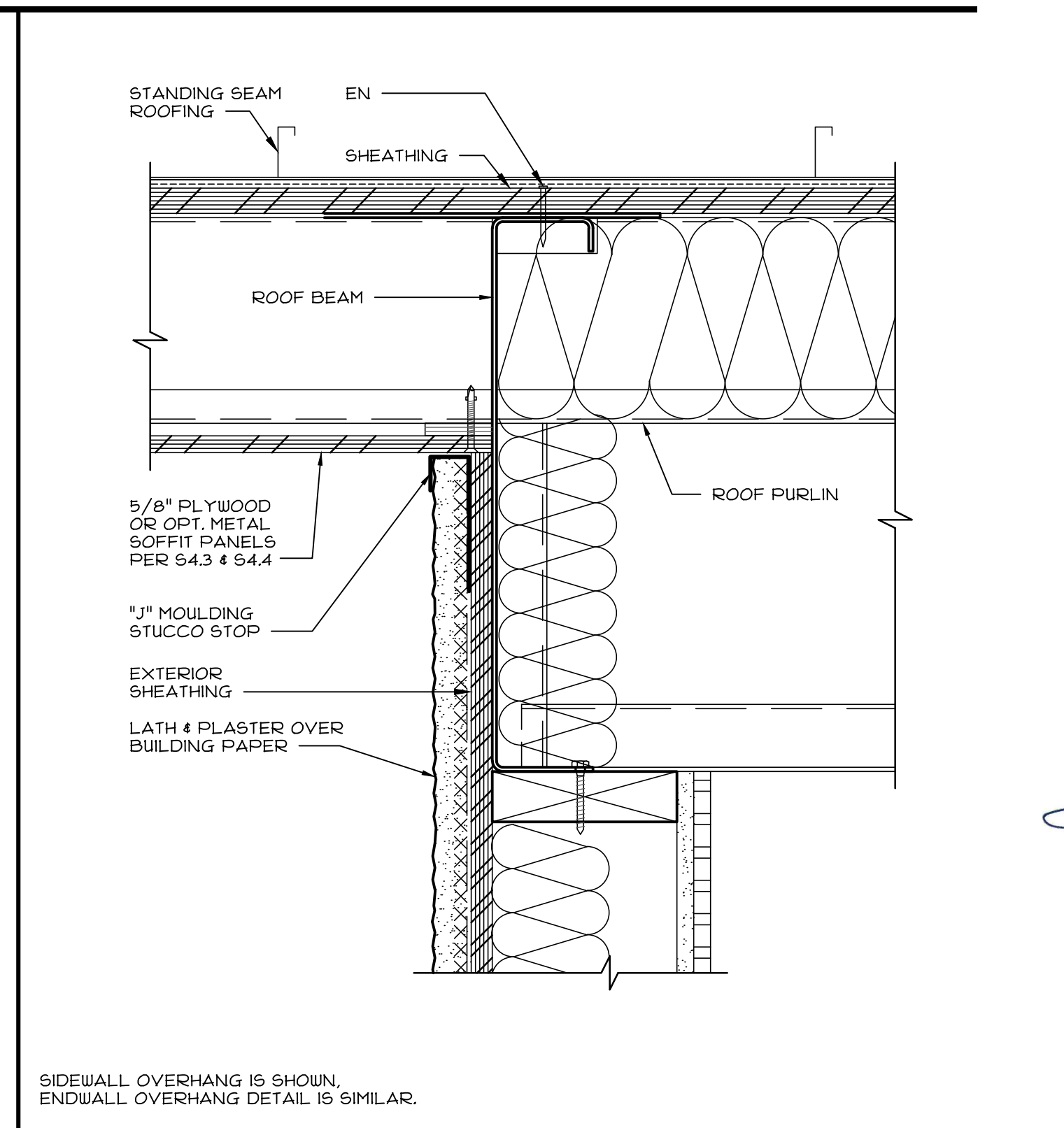
**CONCRETE FLOOR SHEET REFERENCES**

STUD SIZE	BUILDINGS UNDER 2160 S.F.	BUILDINGS OVER 2160 S.F.
2x6 OR 2x8	A6.4	A6.8

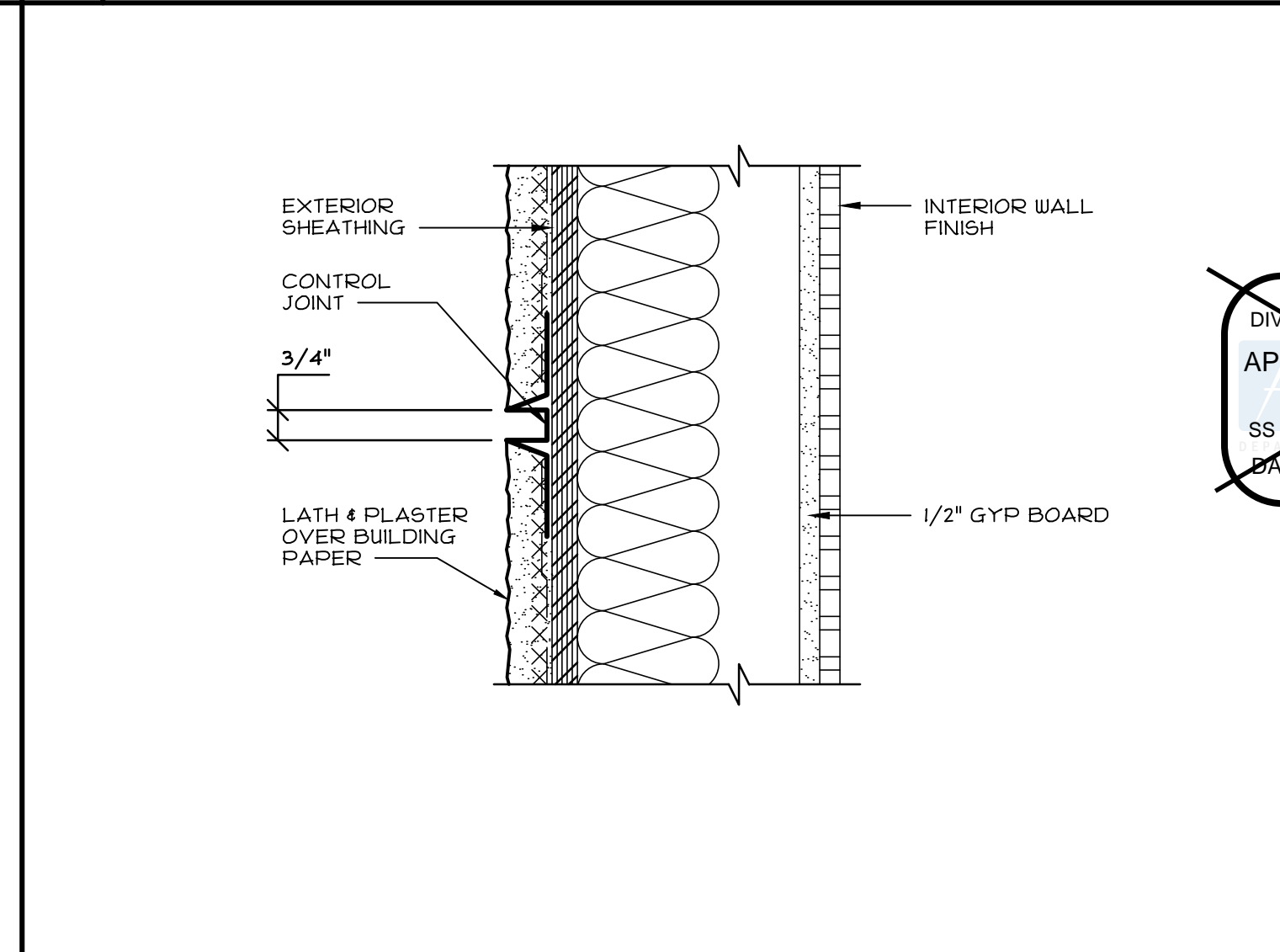
9 DETERIORATION PROTECTION



11 BASE FLASHING DETAIL - (PLY. FLOOR)  
SCALE: 3/4"=1'-0"



8 SECTION - ROOF OVERHANG  
SCALE: 3/4"=1'-0"



10 TYP. STUCCO CONTROL JOINT  
SCALE: 3/4"=1'-0"

- NOTES:
- ALL EXTERIOR WALL SHEATHING/SIDING SHALL BE INSTALLED OVER CLASS I OR II VAPOR BARRIER.
  - FOR STUCCO SPECIFICATIONS, SEE SHEET A4B
  - FOR FASTENER SCHEDULE, SEE SHEET S3FA
  - 2x6, 2x8 STUDS MAY BE USED. 2x4 STUDS SHALL NOT BE USED

12 SHEET NOTES

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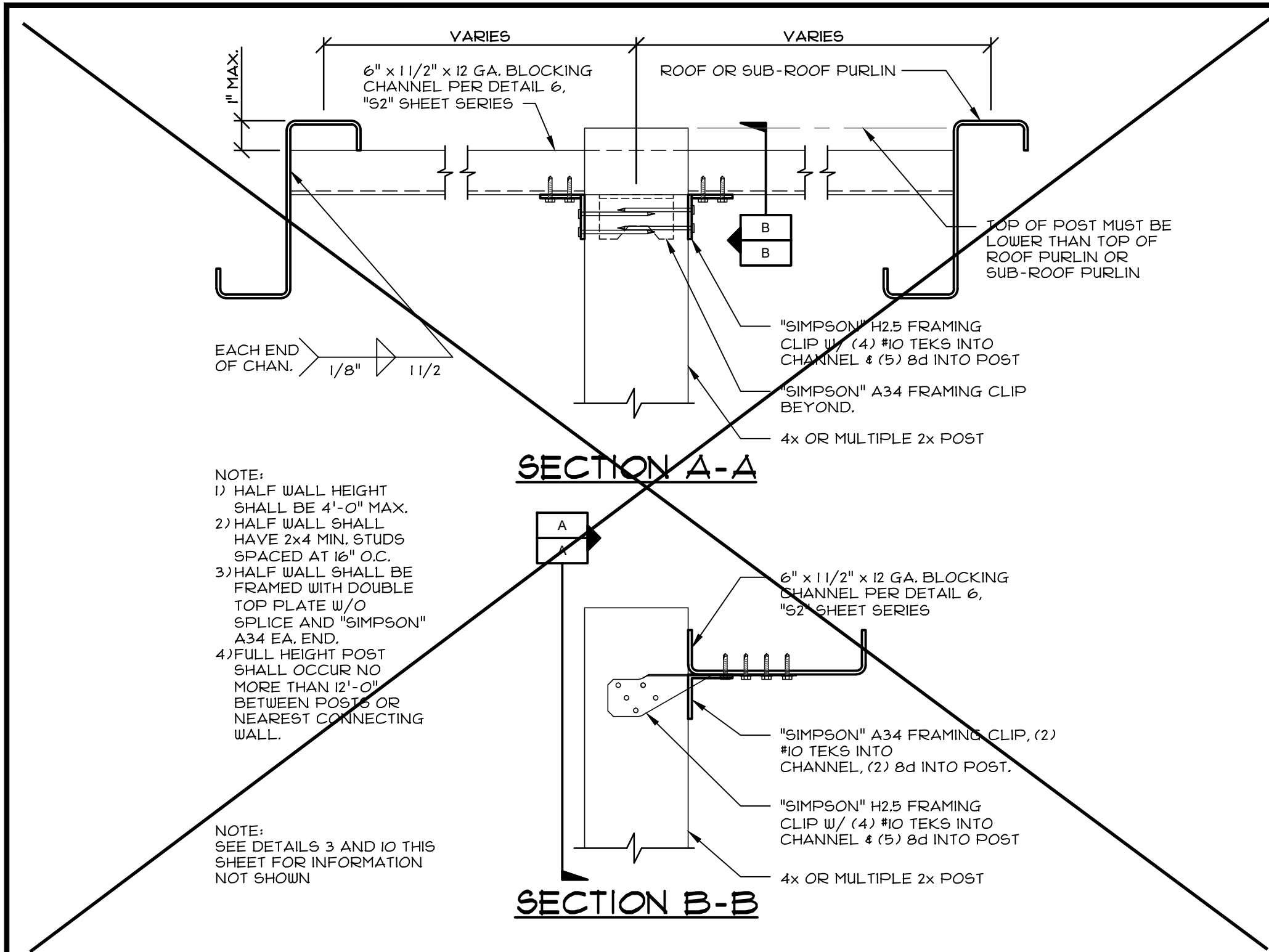
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ROBERTS FERRY ES  
at  
ROBERTS FERRY UESD

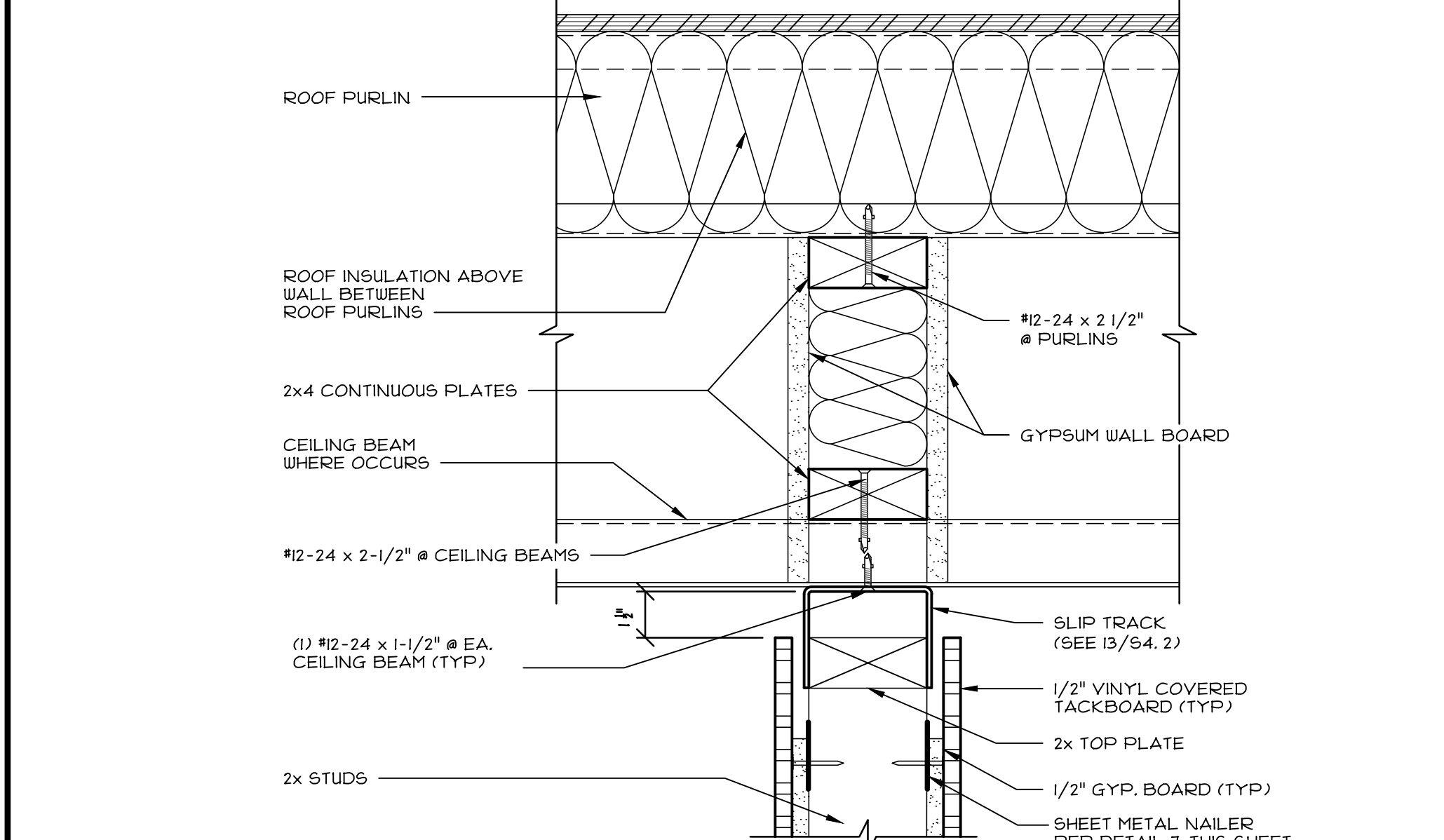
TYPICAL STUCCO FINISH DETAILS

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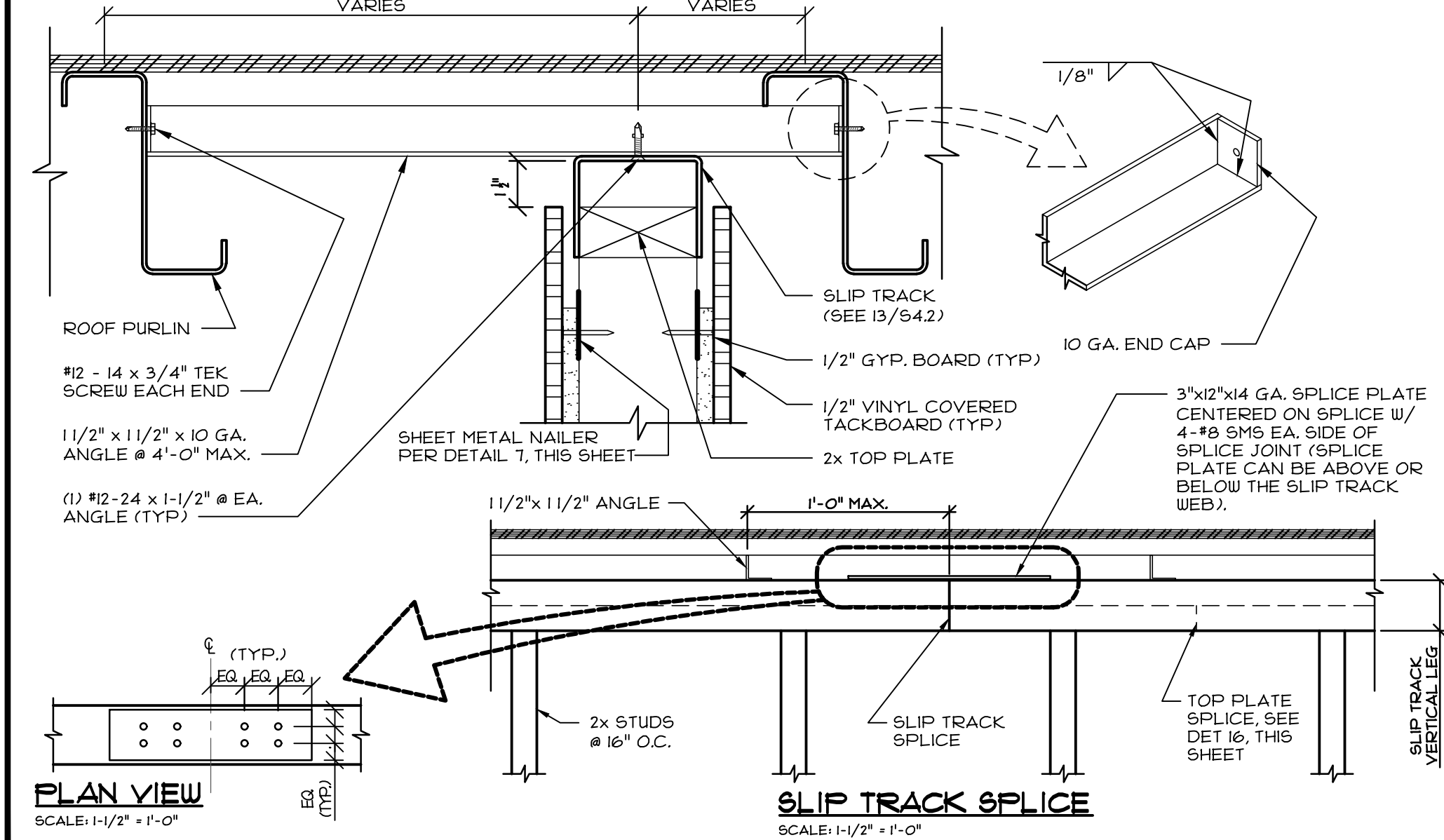
24x40 TO 120x40 P.C.



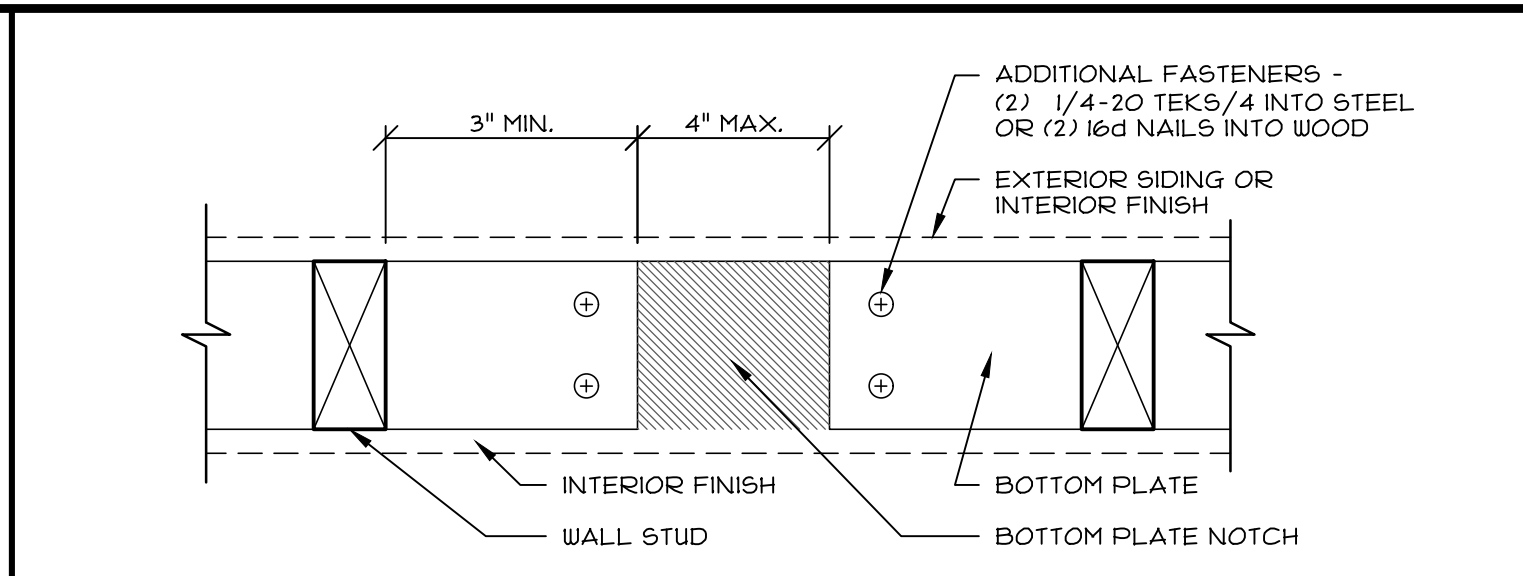
**11 TOP CONNECTION - FULL HT. POST FOR HALF WALLS**  
SCALE: 3"=1'-0"



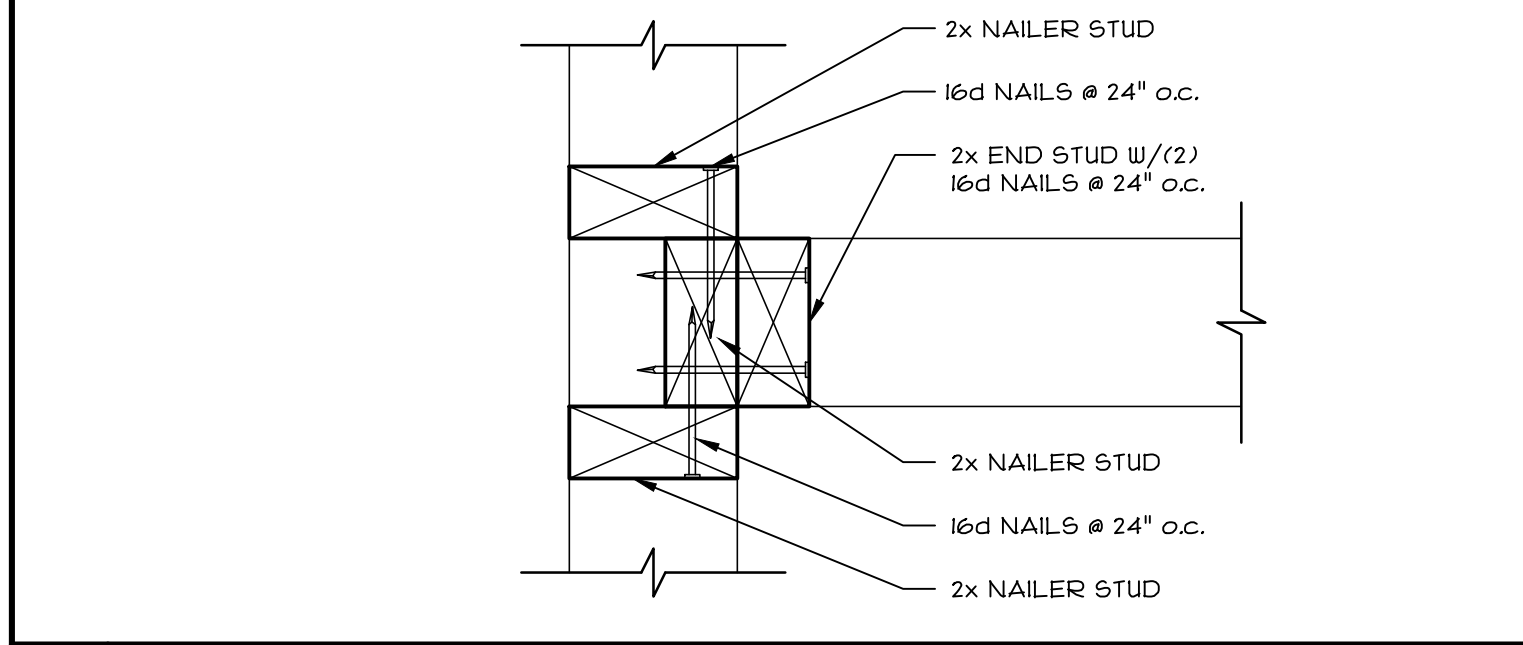
**12 FULL HEIGHT PRIVACY WALL - PERP. TO PURLINS**  
SCALE: 3"=1'-0"



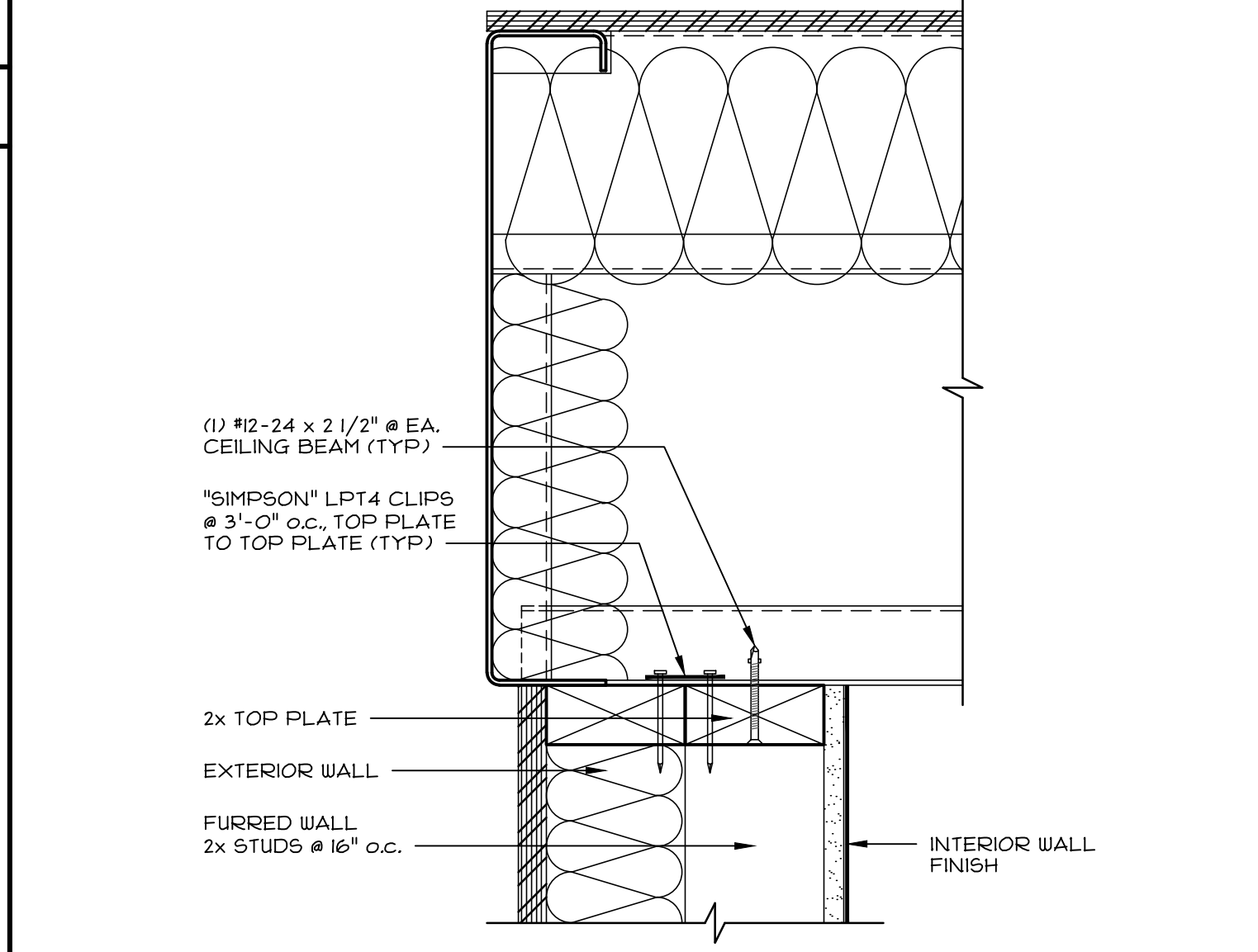
**13 FULL HEIGHT PRIVACY WALL - PARALLEL TO PURLINS**  
SCALE: 3"=1'-0"



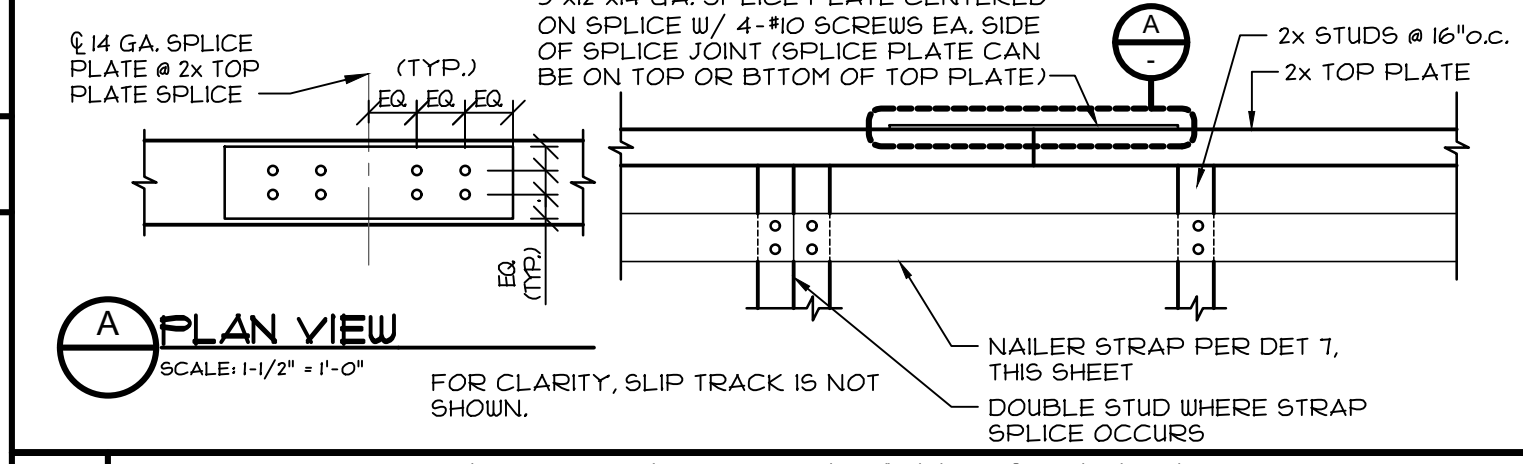
**1 ALLOWABLE BOTTOM PLATE NOTCH**  
SCALE: 3"=1'-0"



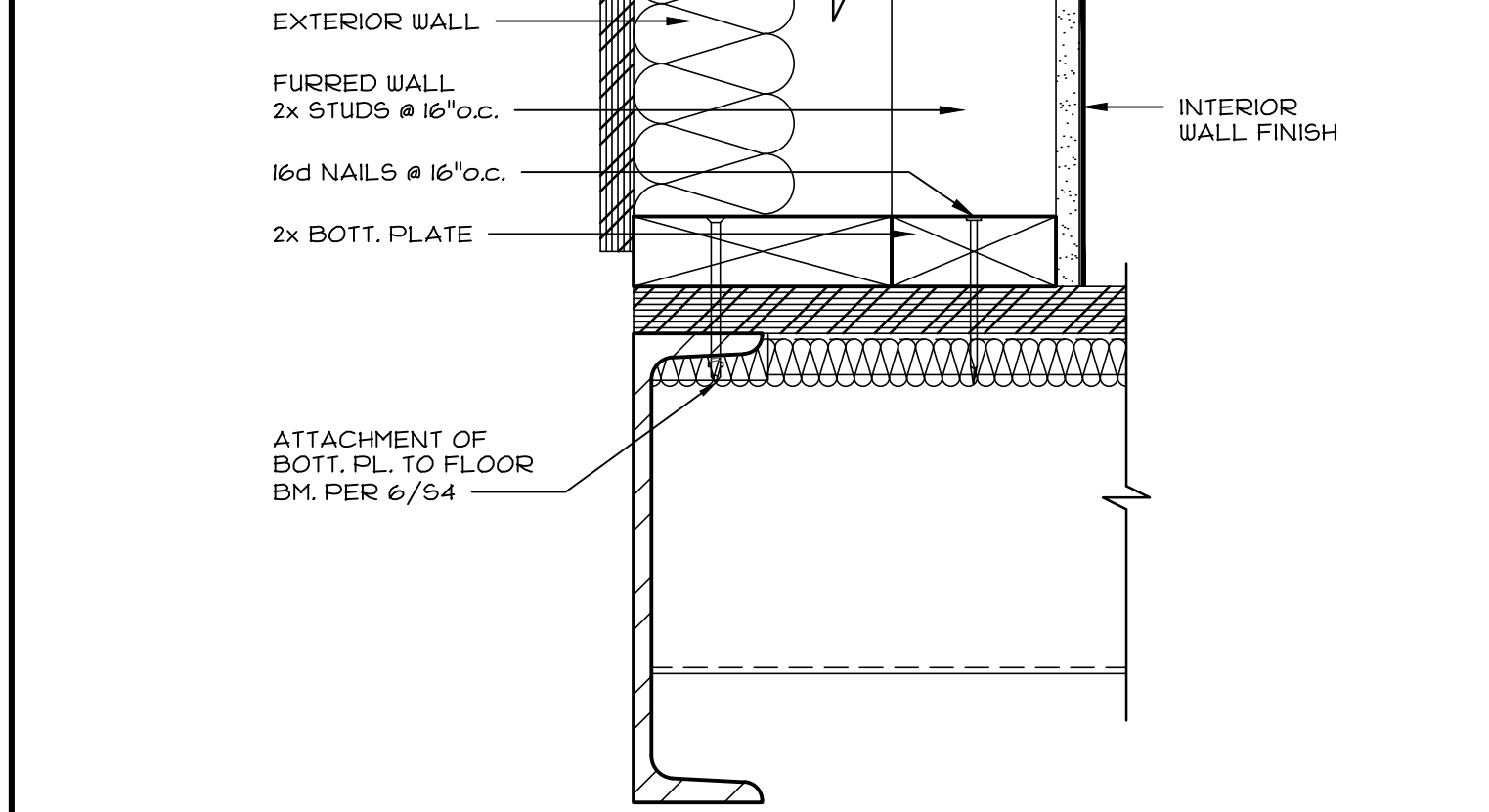
**4 PERPENDICULAR WALL CONNECTION**  
SCALE: 3"=1'-0"



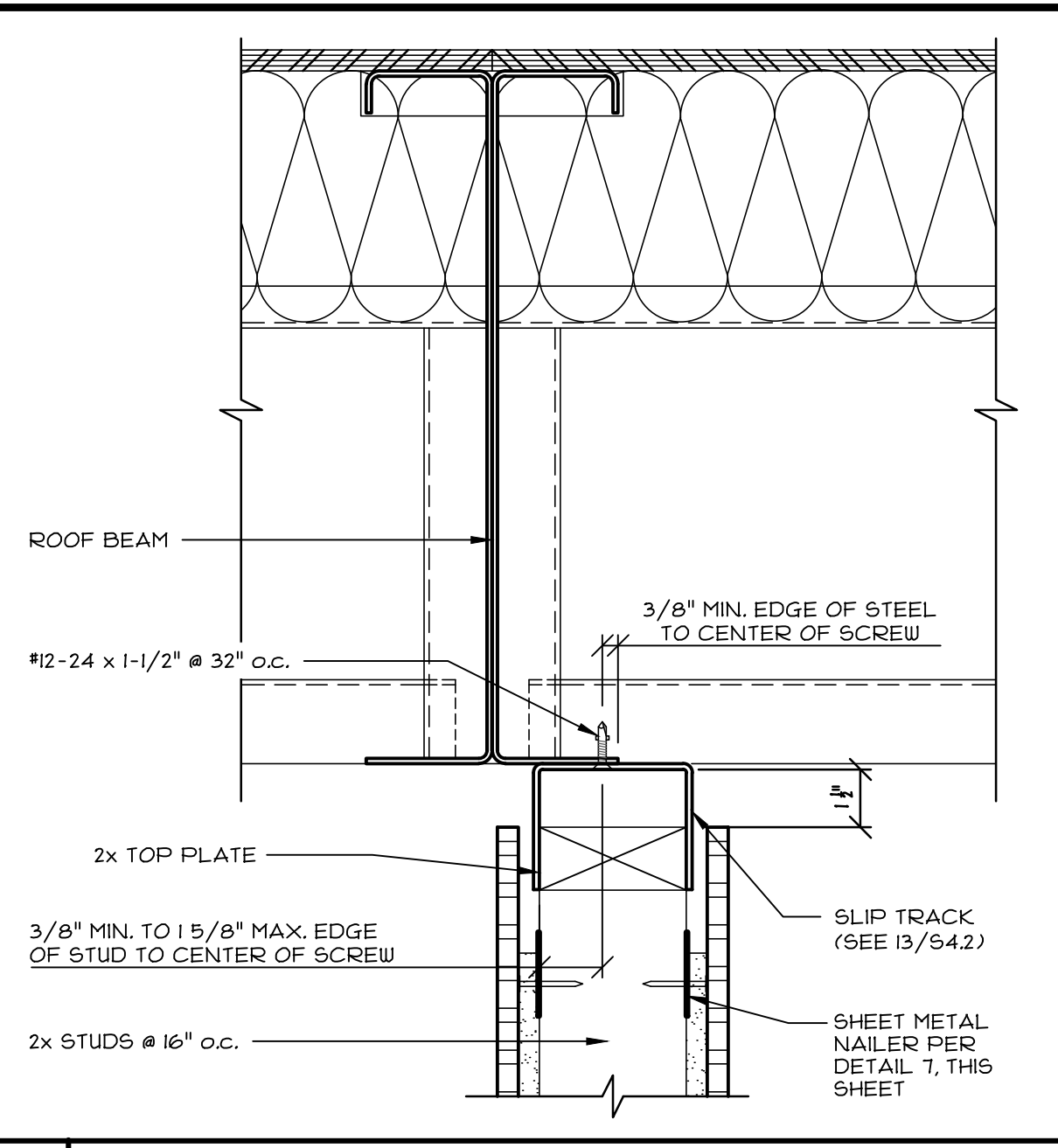
**6 FURRED WALL - TOP PLATE CONNECTION**  
SCALE: 3"=1'-0"



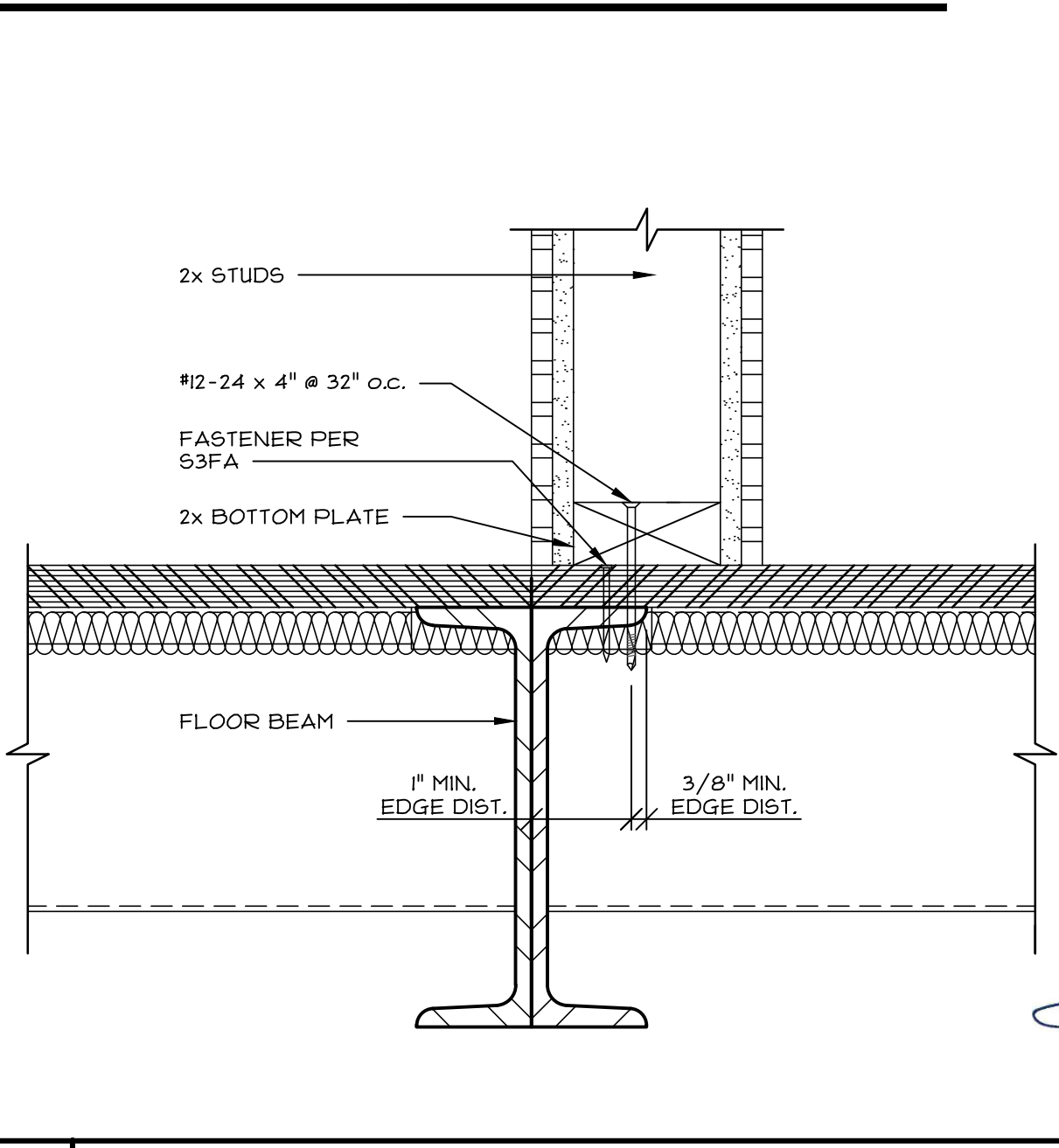
**16 WOOD TOP PLATE SPLICE**  
SCALE: 1-1/2"=1'-0"



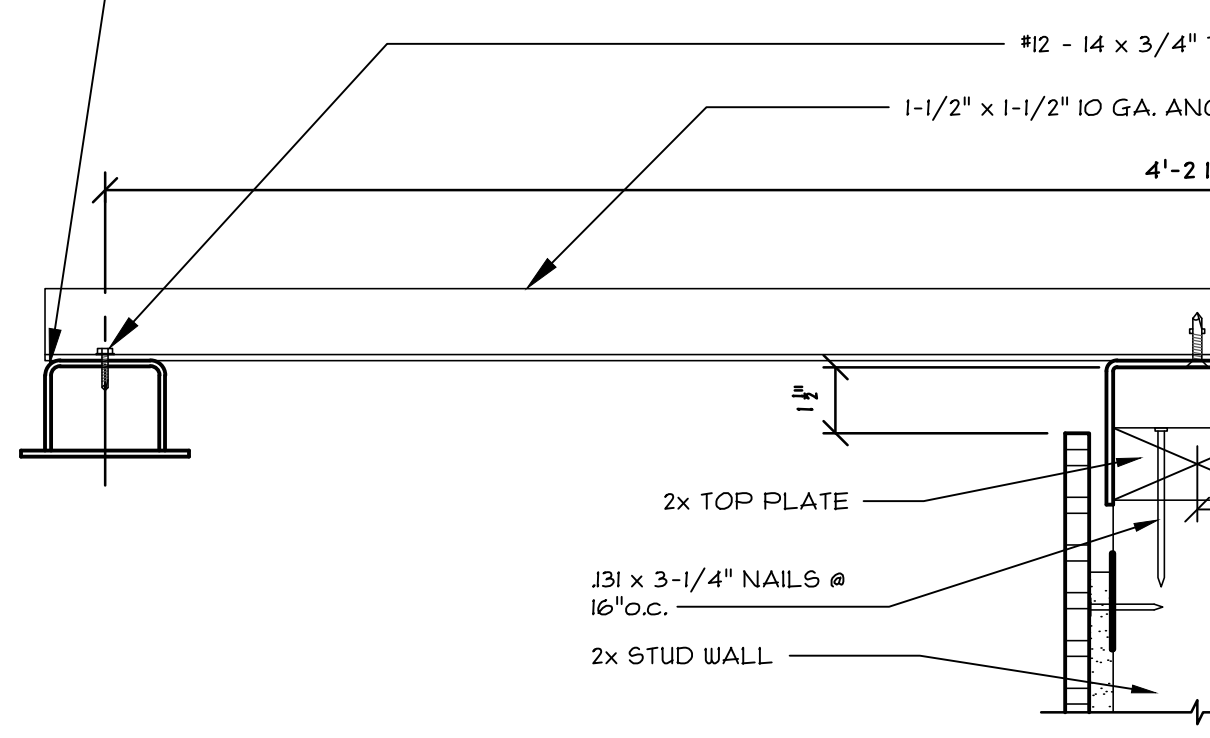
**9 FURRED WALL - BOTTOM PLATE CONNECTION**  
SCALE: 3"=1'-0"



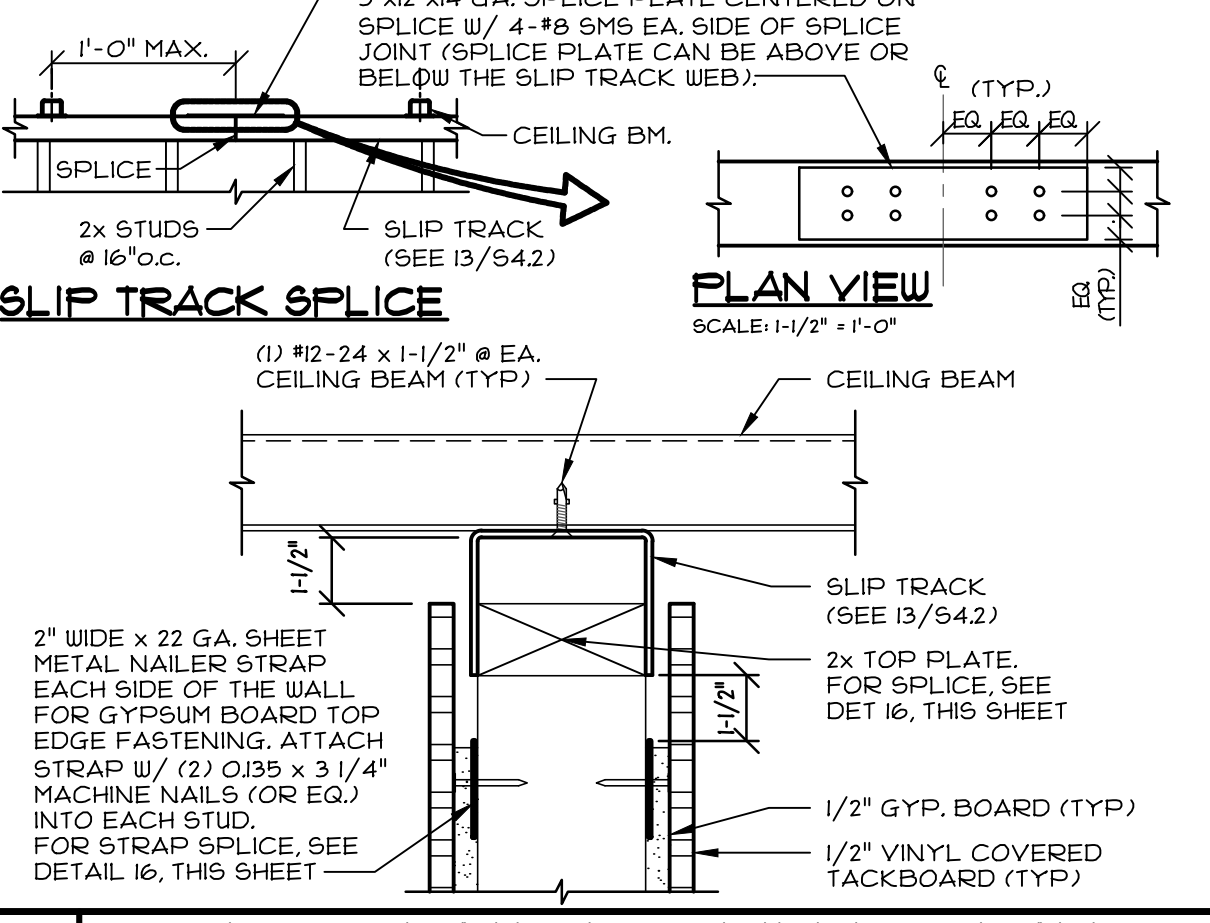
**2 INT. TOP PLATE TO ROOF BEAM**  
SCALE: 3"=1'-0"



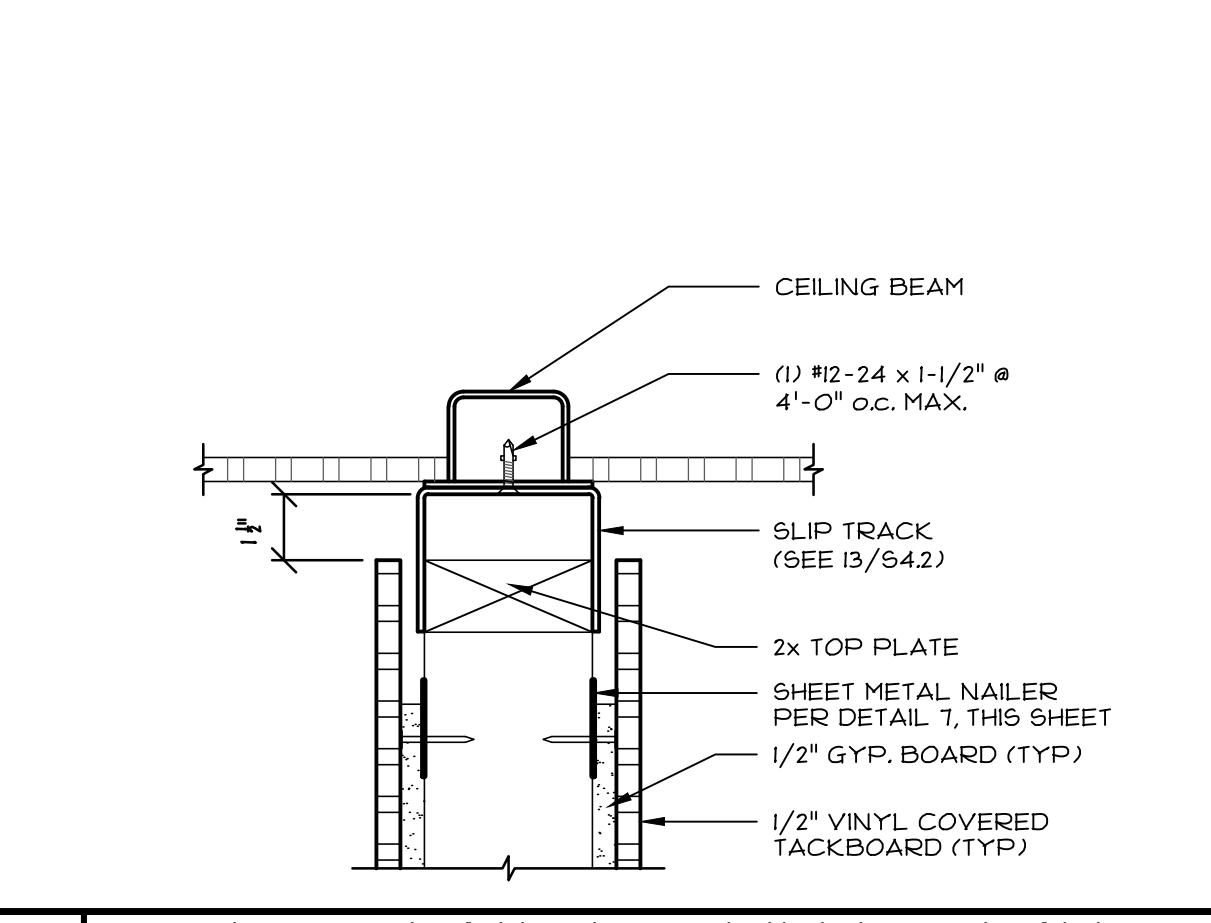
**3 INT. BOTTOM PLATE TO FLOOR BEAM**  
SCALE: 3"=1'-0"



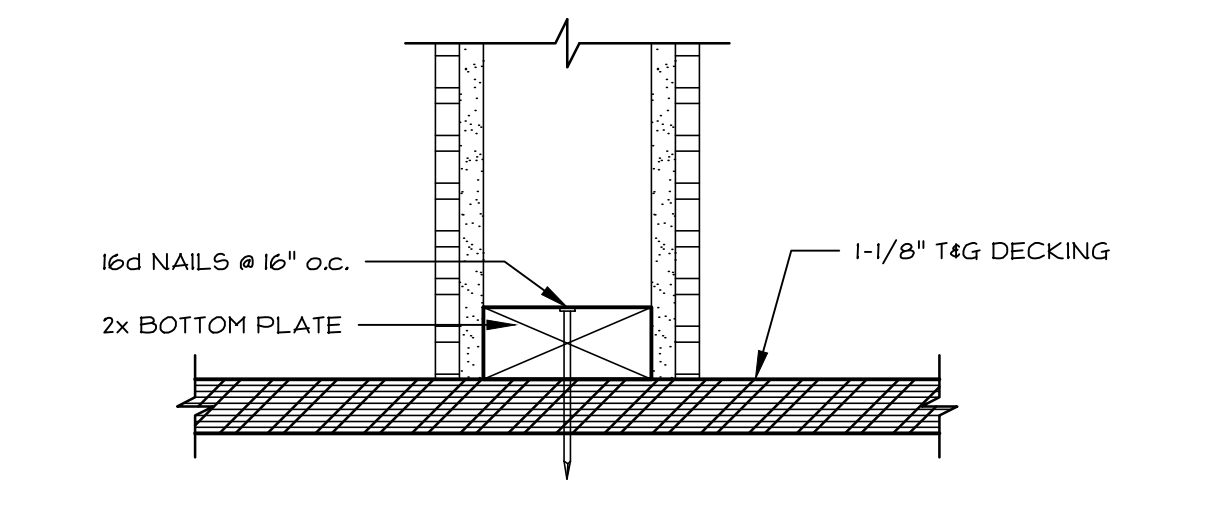
**5 TOP PLATE ATTACHMENT BETWEEN CEILING BEAMS**  
SCALE: 3"=1'-0"



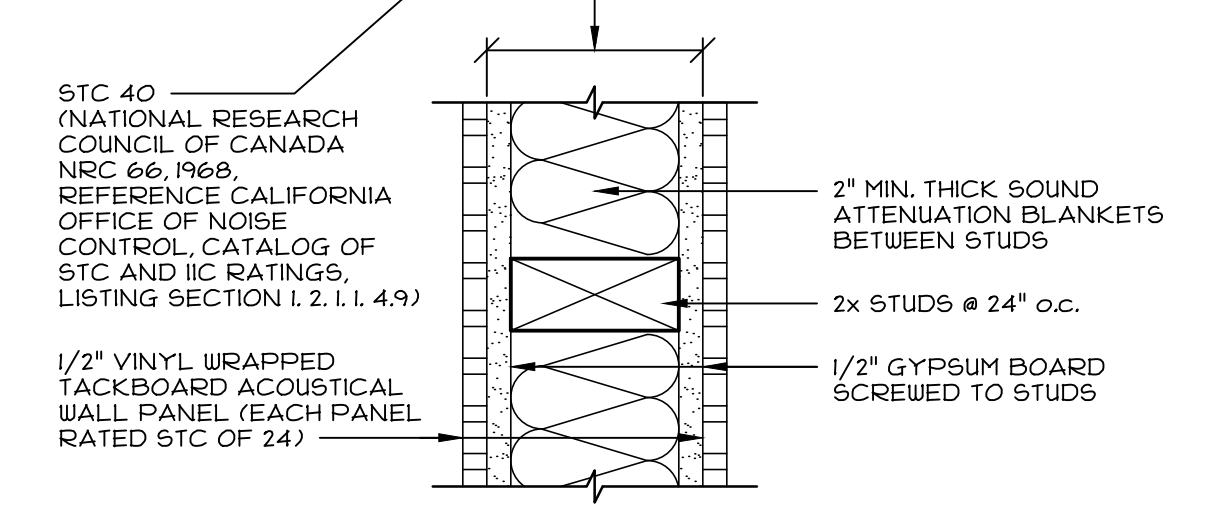
**7 TOP PLATE TO CEILING BEAM**  
SCALE: 3"=1'-0"



**8 TOP PLATE TO CEILING BEAM**  
SCALE: 3"=1'-0"



**10 BOTTOM PLATE TO FLOOR**  
SCALE: 3"=1'-0"



**14 TYP. INTERIOR WALL STC RATING**  
SCALE: 3"=1'-0"

NOTES:  
1. ALL EXTERIOR WALL SHEATHING/SIDING SHALL BE INSTALLED OVER CLASS I OR II VAPOR BARRIER.  
2. FOR FASTENER SCHEDULE, SEE SHEET 53FA  
3. 2x4, 2x6 OR 2x8 FRAMING MAY BE USED

**15 SHEET NOTES**

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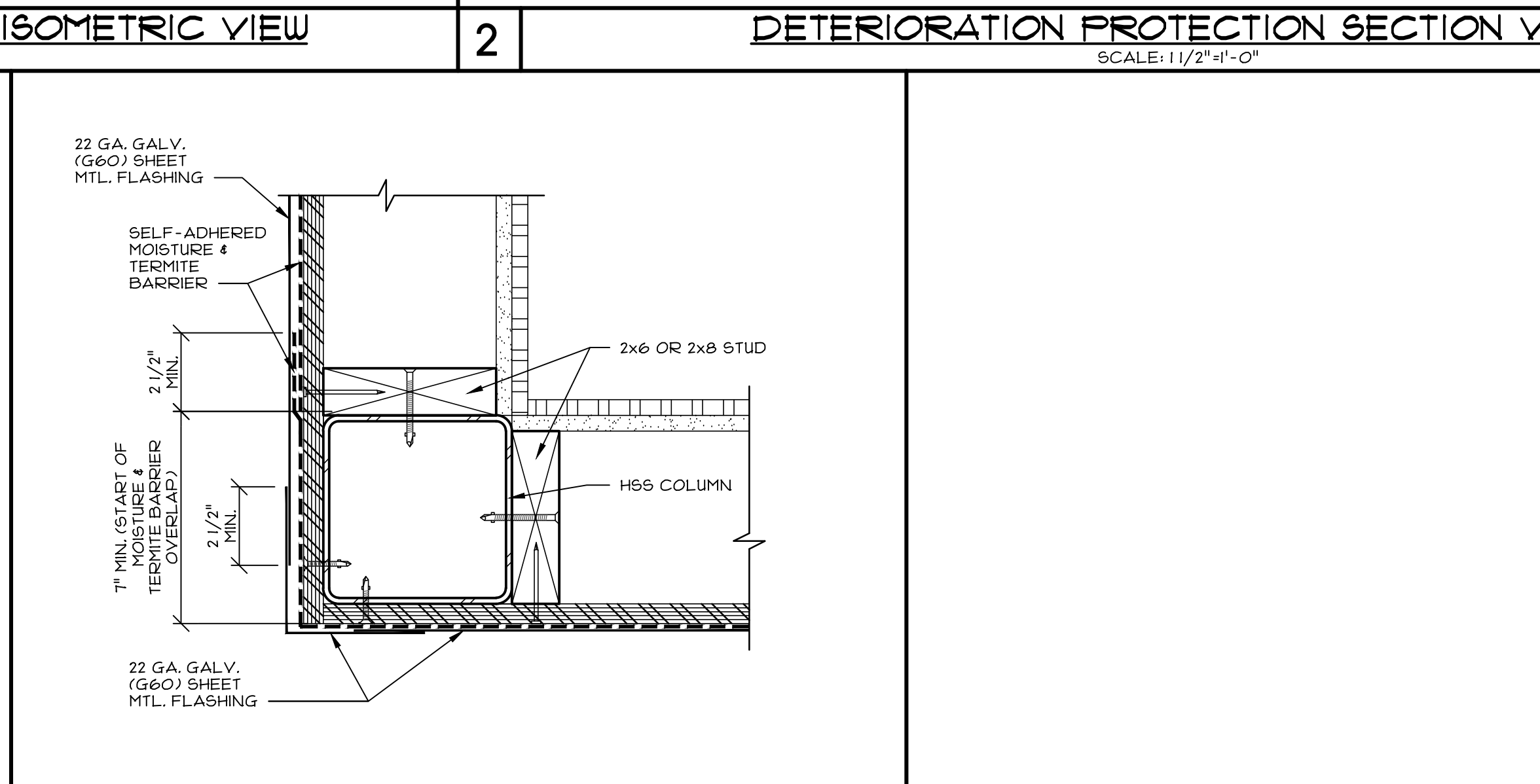
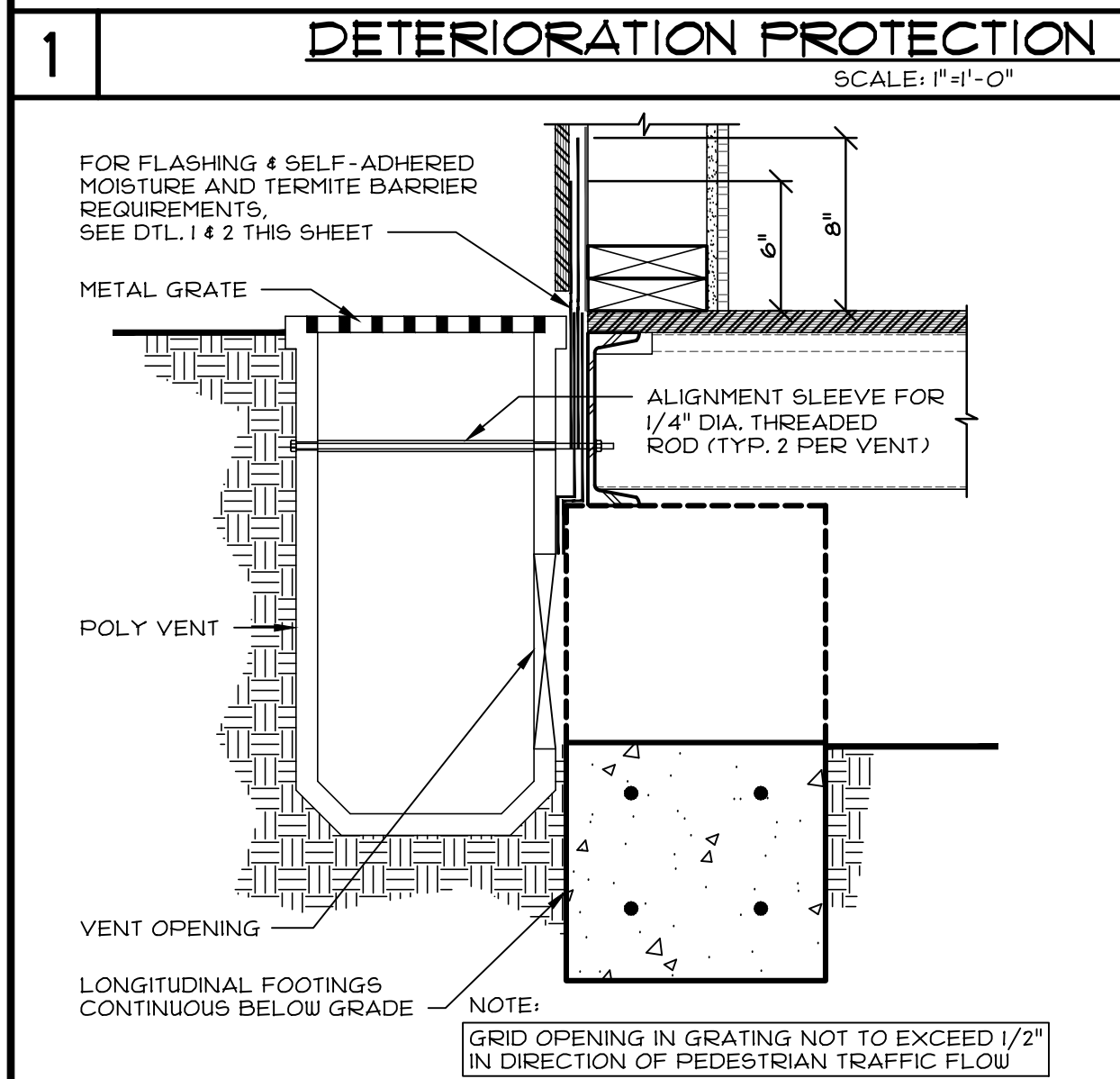
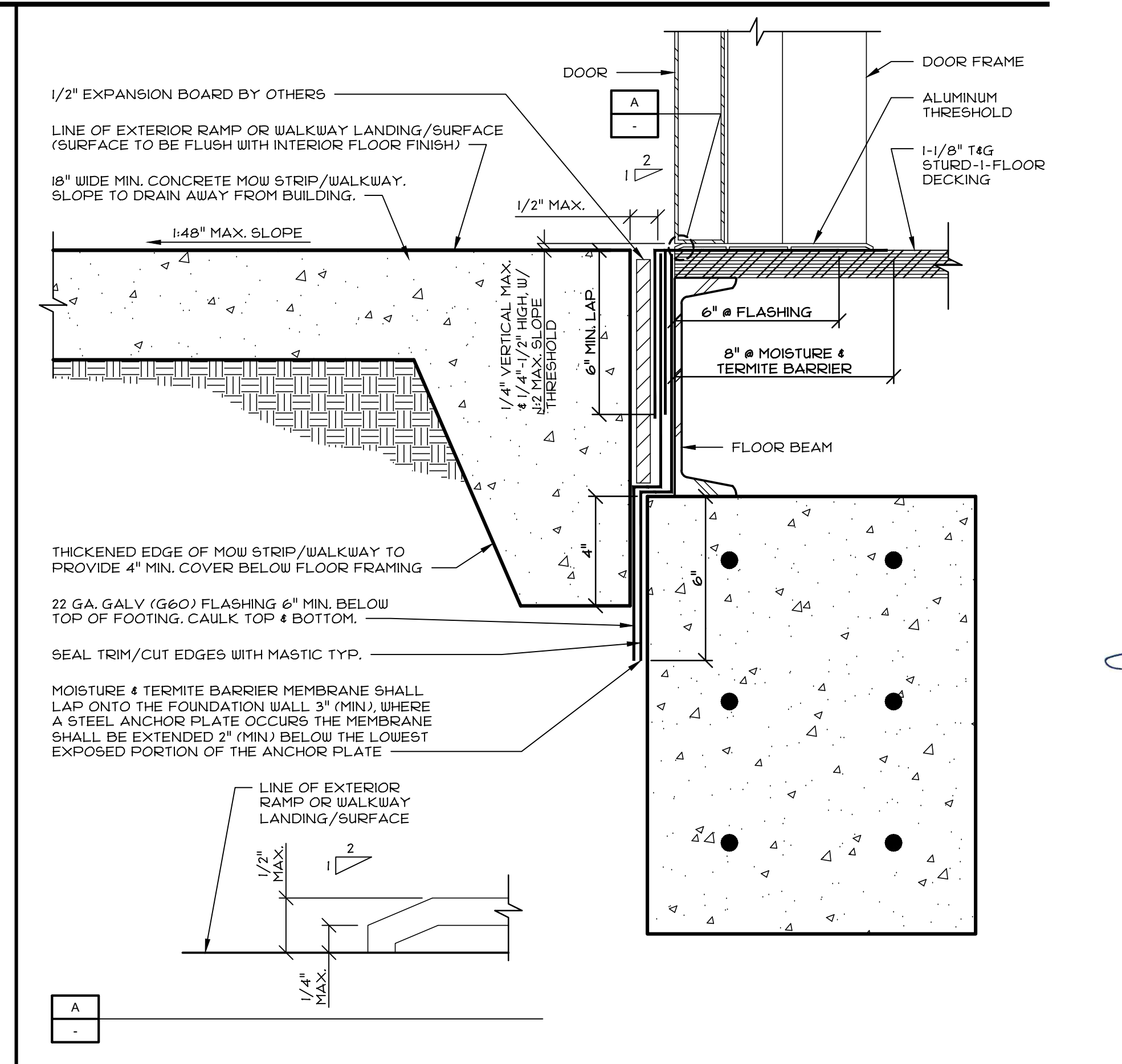
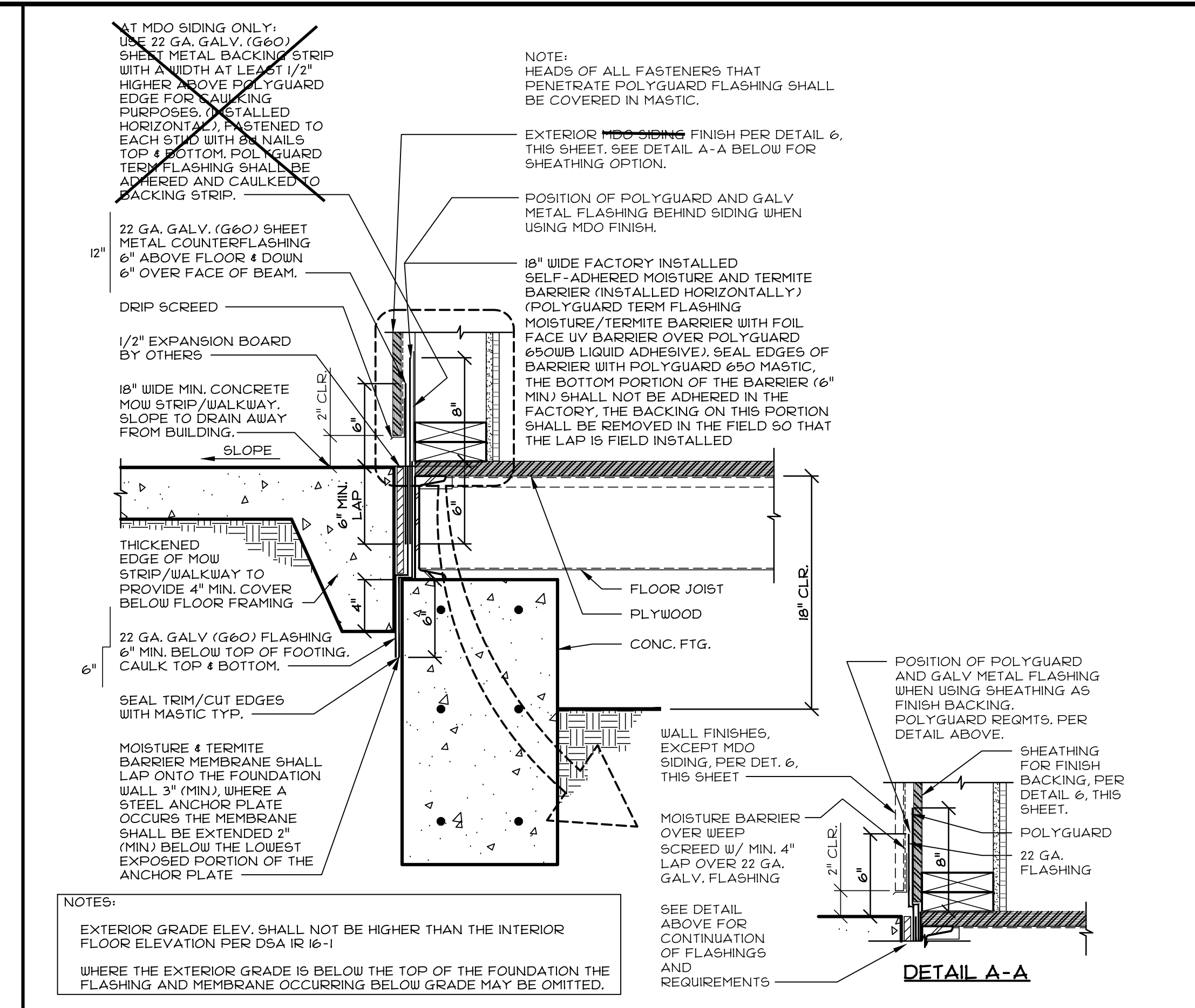
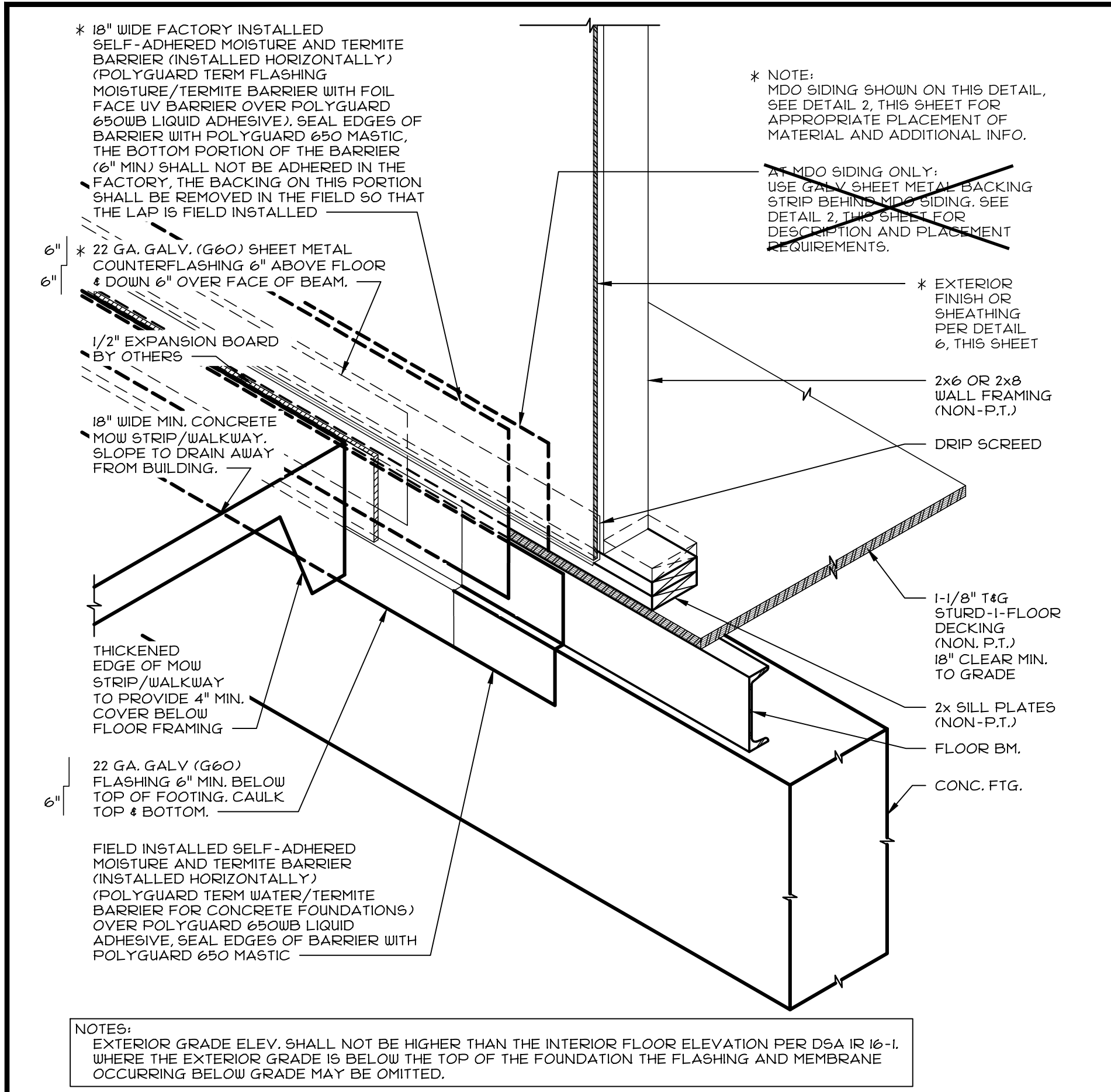
ROBERTS FERRY ES  
at  
ROBERTS FERRY UESD

INTERIOR WALL CONNECTION DETAILS

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

**A4H**





**MOISTURE AND TERMITES BARRIER MEMBRANE FLASHING INSTALLATION REQUIREMENTS**

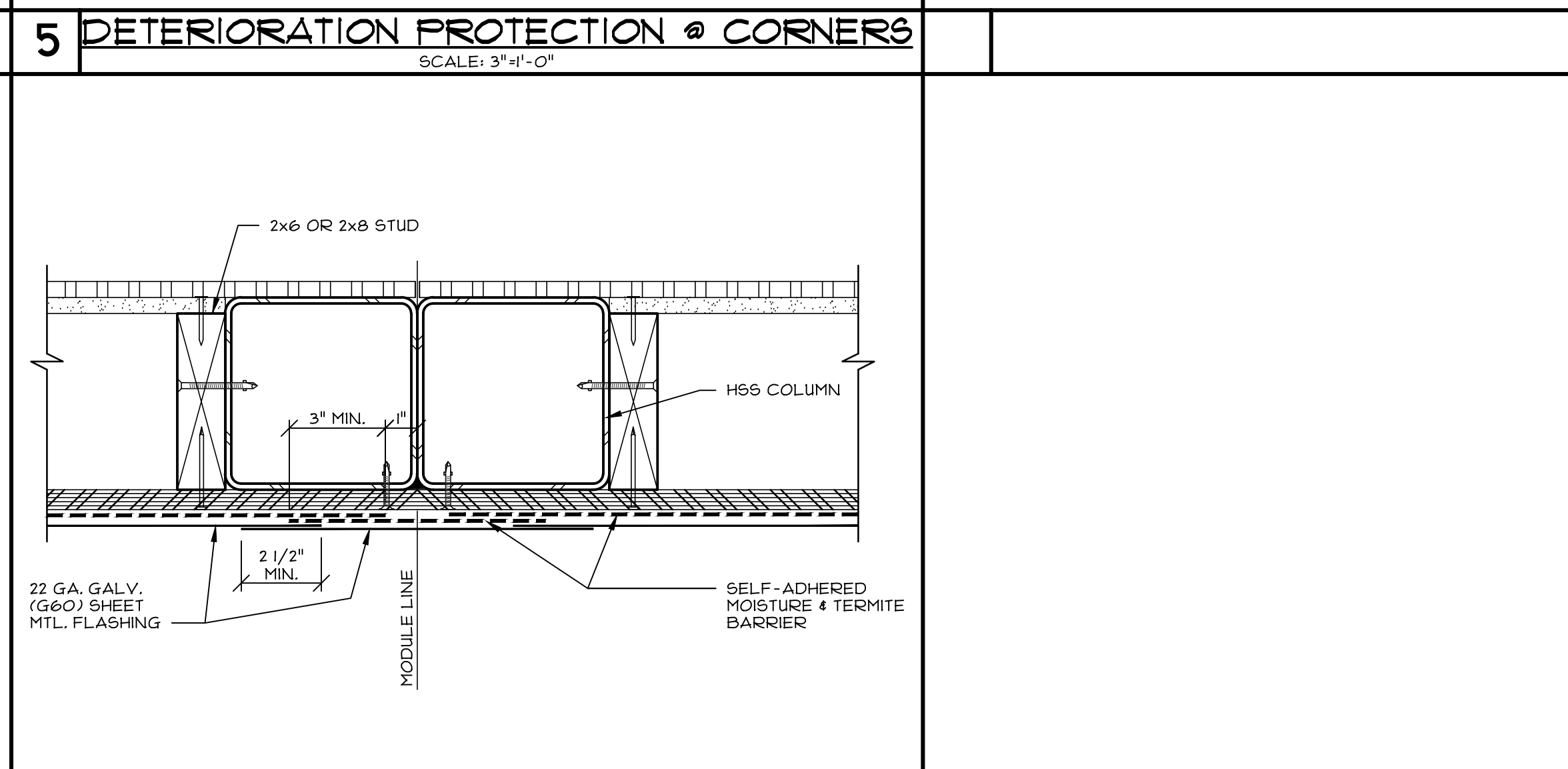
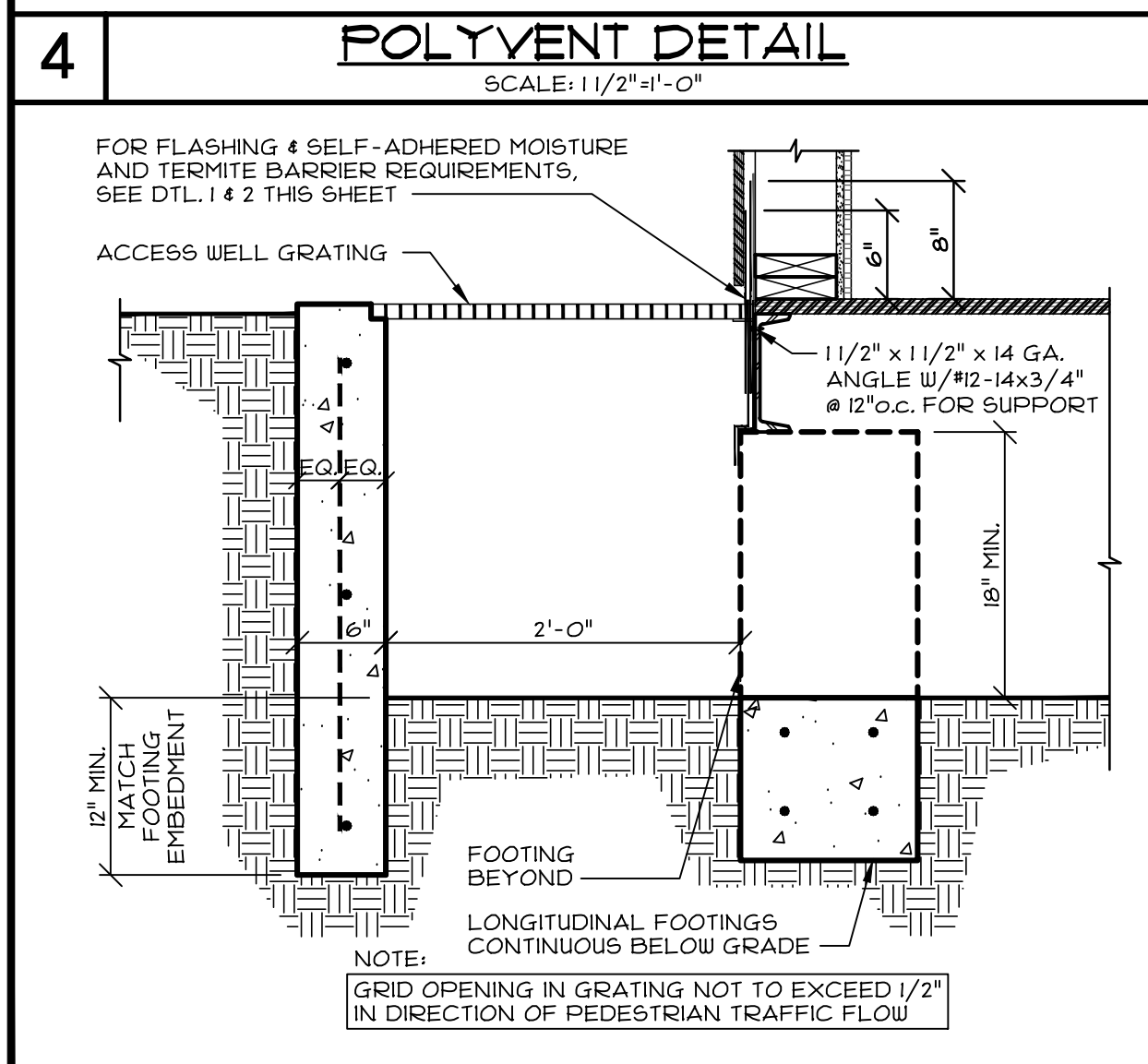
- ALL SURFACES SHALL BE CLEAN (FREE OF DIRT, DUST, OIL AND OTHER DEBRIS) PRIOR TO APPLICATION OF THE ADHESIVE AND MEMBRANE.
- ALL SURFACE Voids GREATER THAN 1/8" IN WIDTH SHALL BE FILLED WITH SEALANT PRIOR TO INSTALLATION.
- APPLY LIQUID ADHESIVE TO ALL SURFACES WHICH WILL RECEIVE THE FLASHING BARRIER.
- CUT PIECES OF MEMBRANE TO LENGTH AS NEEDED AND APPLY TO SUBSTRATE ONCE THE LIQUID ADHESIVE HAS BECOME TACKY. IMMEDIATELY PRIOR TO MEMBRANE APPLICATION, THE INSTALLER SHALL VERIFY THAT THE ADHESIVE IS STILL TACKY TO THE TOUCH, IF NECESSARY A SECOND LAYER OF ADHESIVE SHALL BE PROVIDED.
- INSTALL MEMBRANE IN A HORIZONTAL ORIENTATION.
- WHERE A HORIZONTAL LAP OCCURS, THE JOINTS SHALL BE LAPPED 2 1/2 INCHES MINIMUM.
- AT BUILDING CORNERS THE MEMBRANE SHALL BE WRAPPED AROUND THE CORNER AND SHALL EXTEND NO LESS THAN 6" BEYOND THE CORNER PRIOR TO LAPPING ANOTHER SHEET.
- WHERE ARE MODULE JOINT (MODLINE) OCCURS THE FACTORY INSTALLED MEMBRANE PIECE SHALL BE TERMINATED WITHIN 1" OF THE EDGE OF THE MODULE. A FIELD INSTALLED MEMBRANE PIECE SHALL BE APPLIED FOLLOWING THE INSTALLATION OF THE MODULES ON THE FOUNDATION. THE FIELD INSTALLED MEMBRANE PIECE SHALL LAP THE FACTORY INSTALLED MEMBRANE 3" MINIMUM AT EACH END.
- WHERE A VERTICAL LAP OCCURS THE UPPER MEMBRANE LAYER SHALL BE LAPPED OVER THE LOWER MEMBRANE LAYER 6" MINIMUM.
- THE MEMBRANE SHALL BE ROLLED FIRMLY INTO PLACE USING HAND ROLLER.
- APPLY MASTIC OR SEALANT TO TERMINATING EDGES AND AROUND PIPES OR OTHER PENETRATIONS.
- WHERE THE SURFACES ARE OFFSET MORE THAN 1/8" OUT-OF-PLANE PROVIDE SEALANT OR ANOTHER STABLE MATERIAL TO TRANSITION BETWEEN THE SURFACES.
- WHERE A HORIZONTAL LAP OCCURS IN THE GALVANIZED FLASHING THE JOINTS SHALL BE LAPPED 2 1/2" MINIMUM

**REPAIR REQUIREMENTS**  
WHERE DAMAGE OCCURS, THE REPAIRS SHALL BE AS FOLLOWS:  
1. WHERE THE DAMAGE MEASURES LESS THAN 1/2" IN ANY DIRECTION THE PUNCTURE SHALL BE SEALED WITH MASTIC.  
2. WHERE THE DAMAGE MEASURES MORE THAN 1/2", BUT LESS THAN 2", IN ANY DIRECTION A PATCH SHALL BE INSTALLED OVER THE DAMAGE USING THE SAME MEMBRANE MATERIAL. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTIONS.  
3. WHERE THE DAMAGE MEASURES MORE THAN 2" IN ANY DIRECTION THE DAMAGED PORTION SHALL BE REMOVED AND A PIECE OF MEMBRANE SHALL BE INSTALLED. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTIONS.

**INSPECTION REQUIREMENTS**  
THE IN-PLANT INSPECTOR SHALL OBSERVE THE INSTALLATION OF FACTORY INSTALLED PORTION OF THE MEMBRANE FLASHING. THE ADHESIVE AND MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE MEMBRANE SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE.

THE ON-SITE INSPECTOR SHALL OBSERVE THE INSTALLATION OF THE SITE INSTALLED PORTION OF THE MEMBRANE FLASHING. THE FACTORY INSTALLED MEMBRANE SHOULD BE INVESTIGATED TO DETERMINE IF ANY DAMAGE OCCURRED DURING MODULE SHIPMENT/INSTALLATION PRIOR TO PROCEEDING WITH THE SITE INSTALLED MEMBRANE PLACEMENT. THE ADHESIVE AND MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE MEMBRANE SHALL BE LAPPED ONTO THE FOUNDATION WALL AS INDICATED WITHIN THIS DRAWING PACKAGE. THE GALVANIZED FLASHING SHALL BE INSTALLED OVER THE MEMBRANE. THE GALVANIZED FLASHING SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE AND SHALL CONTINUE BELOW THE BOTTOM OF THE FLATWORK OR MOW STRIP AS INDICATED WITHIN THIS DRAWING PACKAGE.

FINISH	APPLICATION (2x6 OR 2x8 STUDS)
MDO SIDING - LP SITESIDE STRAND SUBSTRATE PANEL SIDING, ESR 1001 (OR EQUAL)	NON-PRESERVATIVE TREATED WOOD SIDING PANELS OVER MOISTURE BARRIER OVER WEEP SCREED (OR SIMILAR REGLET) AS REQUIRED FOR FINISH SYSTEM
CEMENT BOARD, LAP, OR WOOD CLAD SIDING	FINISH SIDING PANELS OVER MOISTURE BARRIER OVER WEEP SCREED (OR SIMILAR REGLET) OVER NON-PRESERVATIVE TREATED OSB/PLYWOOD SHEATHING AS BACKING FOR FINISH SYSTEM.
STUCC-O-FLEX	FINISH MATERIAL APPLIED ON CEMENT BOARD PANELS OVER MOISTURE BARRIER OVER WEEP SCREED (OR SIMILAR REGLET) OVER NON-PRESERVATIVE TREATED OSB/PLYWOOD SHEATHING AS BACKING FOR FINISH SYSTEM.
3-COAT STUCCO	FINISH MATERIAL APPLIED OVER LATH OVER MOISTURE BARRIER (2-LAYERS) OVER WEEP SCREED (OR SIMILAR REGLET) OVER NON-PRESERVATIVE TREATED OSB/PLYWOOD SHEATHING AS BACKING FOR FINISH SYSTEM.



**REPAIR REQUIREMENTS**  
WHERE DAMAGE OCCURS, THE REPAIRS SHALL BE AS FOLLOWS:  
1. WHERE THE DAMAGE MEASURES LESS THAN 1/2" IN ANY DIRECTION THE PUNCTURE SHALL BE SEALED WITH MASTIC.  
2. WHERE THE DAMAGE MEASURES MORE THAN 1/2", BUT LESS THAN 2", IN ANY DIRECTION A PATCH SHALL BE INSTALLED OVER THE DAMAGE USING THE SAME MEMBRANE MATERIAL. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTIONS.  
3. WHERE THE DAMAGE MEASURES MORE THAN 2" IN ANY DIRECTION THE DAMAGED PORTION SHALL BE REMOVED AND A PIECE OF MEMBRANE SHALL BE INSTALLED. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTIONS.

**INSPECTION REQUIREMENTS**  
THE IN-PLANT INSPECTOR SHALL OBSERVE THE INSTALLATION OF FACTORY INSTALLED PORTION OF THE MEMBRANE FLASHING. THE ADHESIVE AND MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE MEMBRANE SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE.

THE ON-SITE INSPECTOR SHALL OBSERVE THE INSTALLATION OF THE SITE INSTALLED PORTION OF THE MEMBRANE FLASHING. THE FACTORY INSTALLED MEMBRANE SHOULD BE INVESTIGATED TO DETERMINE IF ANY DAMAGE OCCURRED DURING MODULE SHIPMENT/INSTALLATION PRIOR TO PROCEEDING WITH THE SITE INSTALLED MEMBRANE PLACEMENT. THE ADHESIVE AND MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE MEMBRANE SHALL BE LAPPED ONTO THE FOUNDATION WALL AS INDICATED WITHIN THIS DRAWING PACKAGE. THE GALVANIZED FLASHING SHALL BE INSTALLED OVER THE MEMBRANE. THE GALVANIZED FLASHING SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE AND SHALL CONTINUE BELOW THE BOTTOM OF THE FLATWORK OR MOW STRIP AS INDICATED WITHIN THIS DRAWING PACKAGE.

8 ACCESS / VENT WELL. Scale: 1/4"

9 DETERIORATION PROTECTION @ MODLINE. Scale: 3/4"

11 DETERIORATION PROTECTION REQ.

**CYS**  
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10/11/2023

REGISTERED PROFESSIONAL ENGINEER  
No. S20300  
STATE OF CALIFORNIA

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477 E. CARPENTER ROAD  
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DIV. OF THE STATE ARCHITECT  
APP: 02-121249 PC  
REVISED FOR  
SS [ ] PLS [ ] ACS [ ] CG [ ]  
DATE: 10/24/2023

**ROBERTS FERRY ES**  
at  
**ROBERTS FERRY UESD**

DETERIORATION PROTECTION (2x6 OR 2x8 EXTERIOR WALLS) (WOOD FLOORS) (BUILDINGS OVER 2160 S.F.)

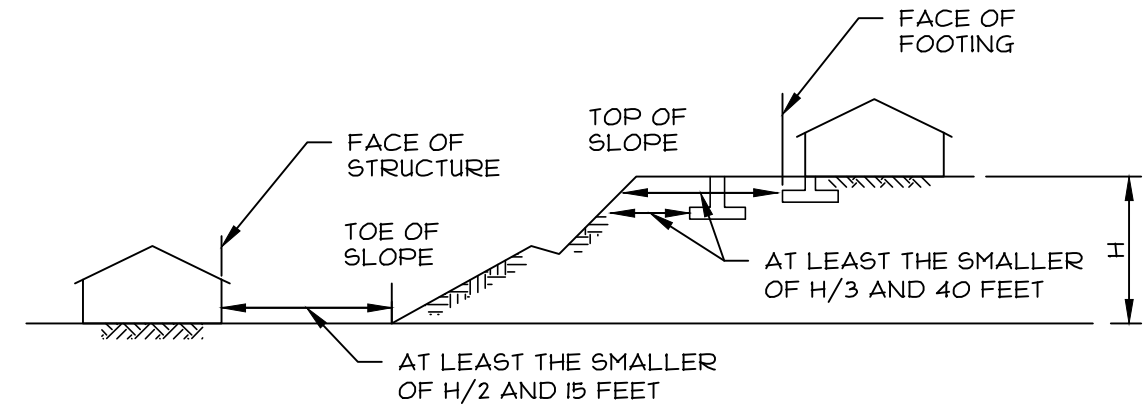
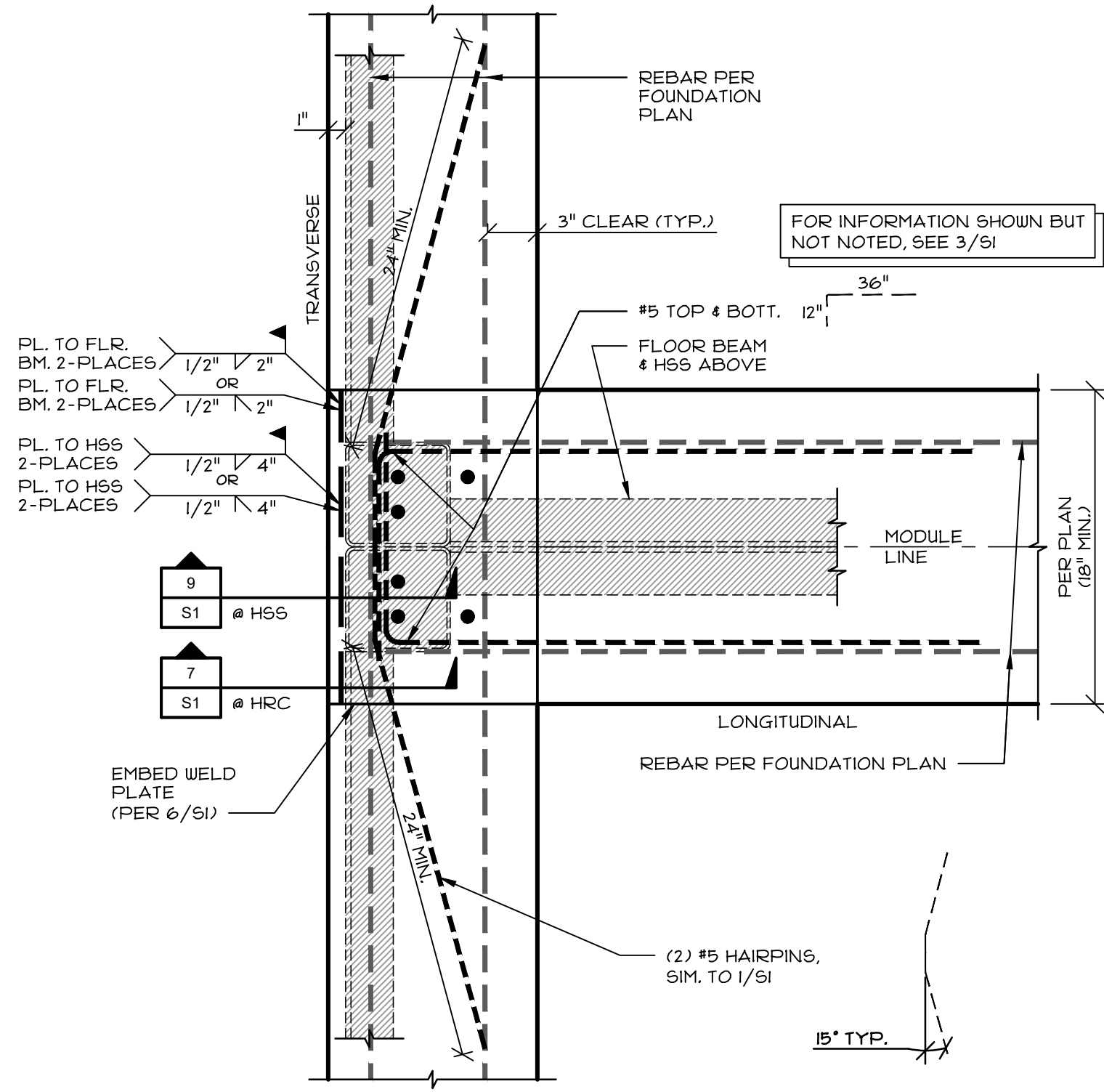
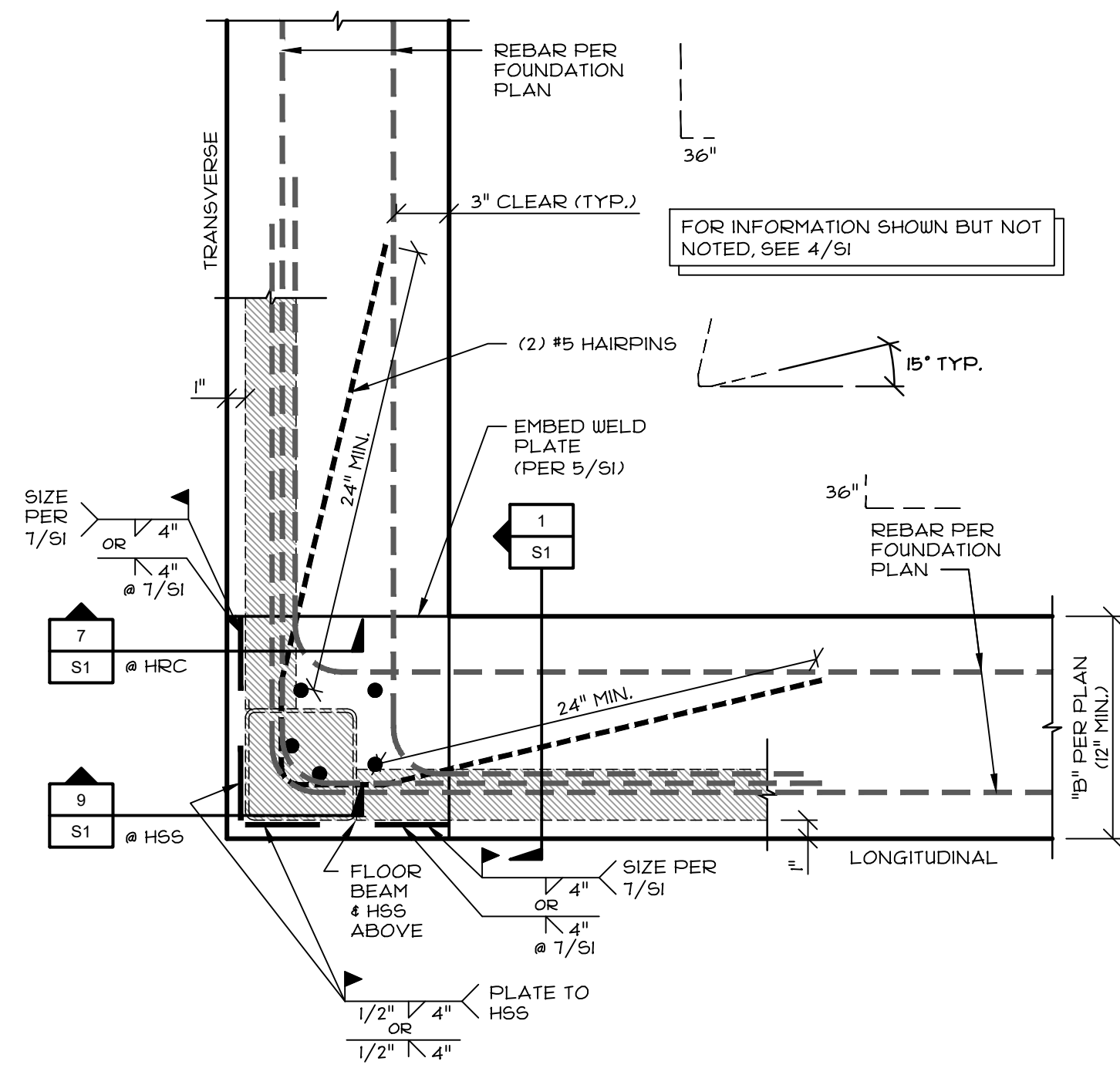
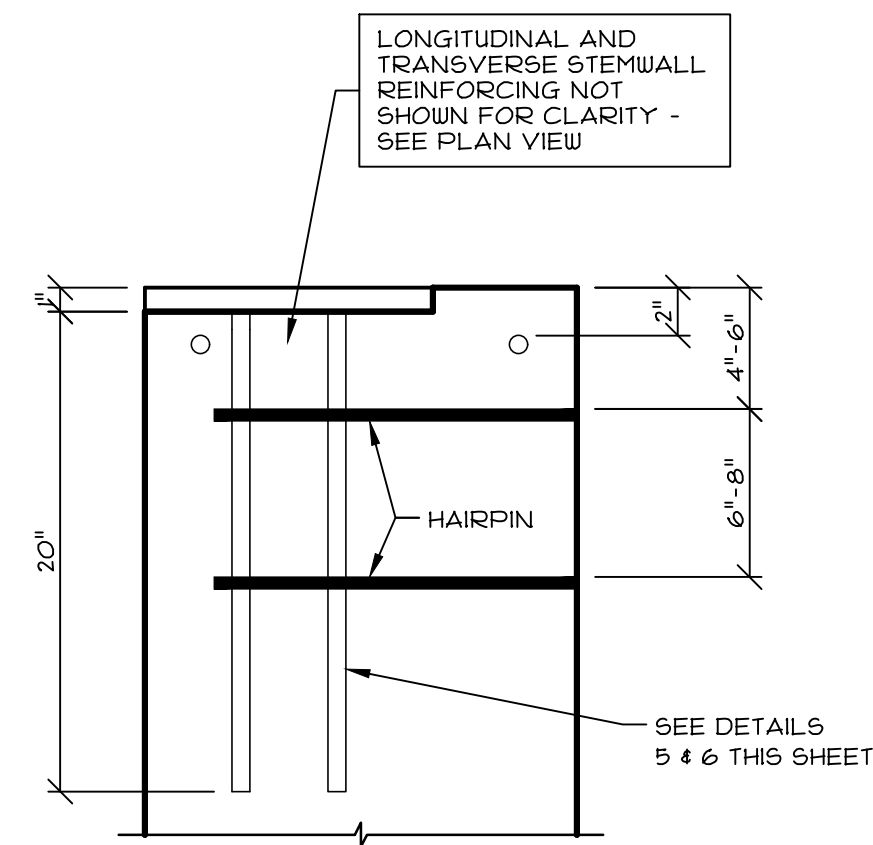
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JOB No.:  
DRAWN BY:  
DATE:

PRE-CHECK (PC) DOCUMENT  
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A separate project application for construction is required.

A6.2

24"x40" TO 120"x40" P.C.

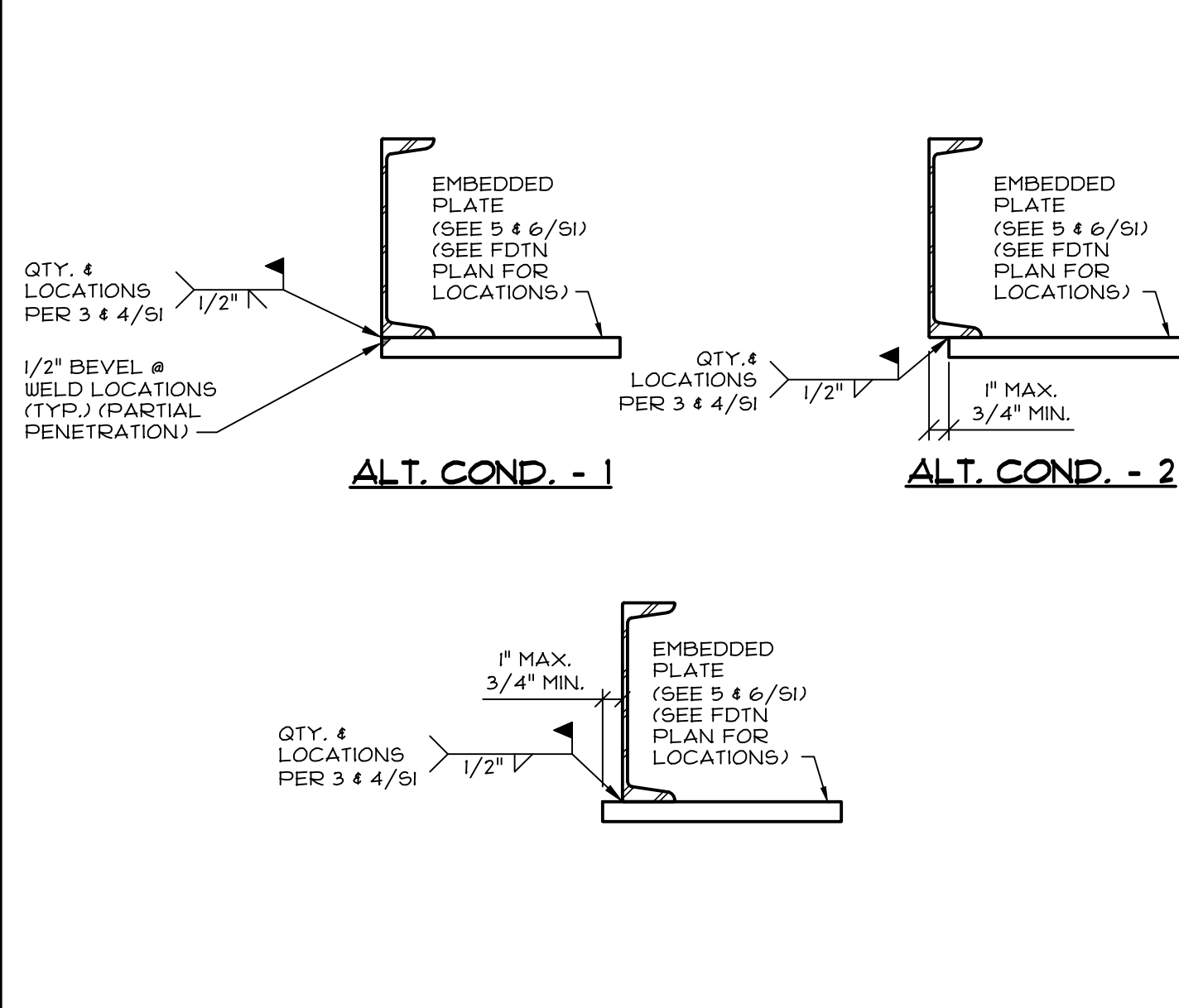


**1** EMBED PLATE - HAIRPIN PLACEMENT  
SCALE: 1/2"=1'-0"

**3** EMBED WELD PLATE & REBAR AT CORNER  
SCALE: 1/2"=1'-0"

**4** EMBED WELD PLATE @ MODLINE (HRC BEAMS)  
SCALE: 1/2"=1'-0"

**10** MIN. FOUNDATION CLEARANCES FROM SLOPES  
SCALE: N.T.S.



f'c = 3000 PSI AT 28 DAYS							
SPlice CLASS	REINFORCEMENT LOCATION	REINFORCEMENT SIZE (GR 60, UNO.)					
		#3	#4	#5	#6	#7	#8
B	TOP	28"	37"	46"	56"	61"	93"
	OTHER	21"	28"	36"	43"	62"	71"

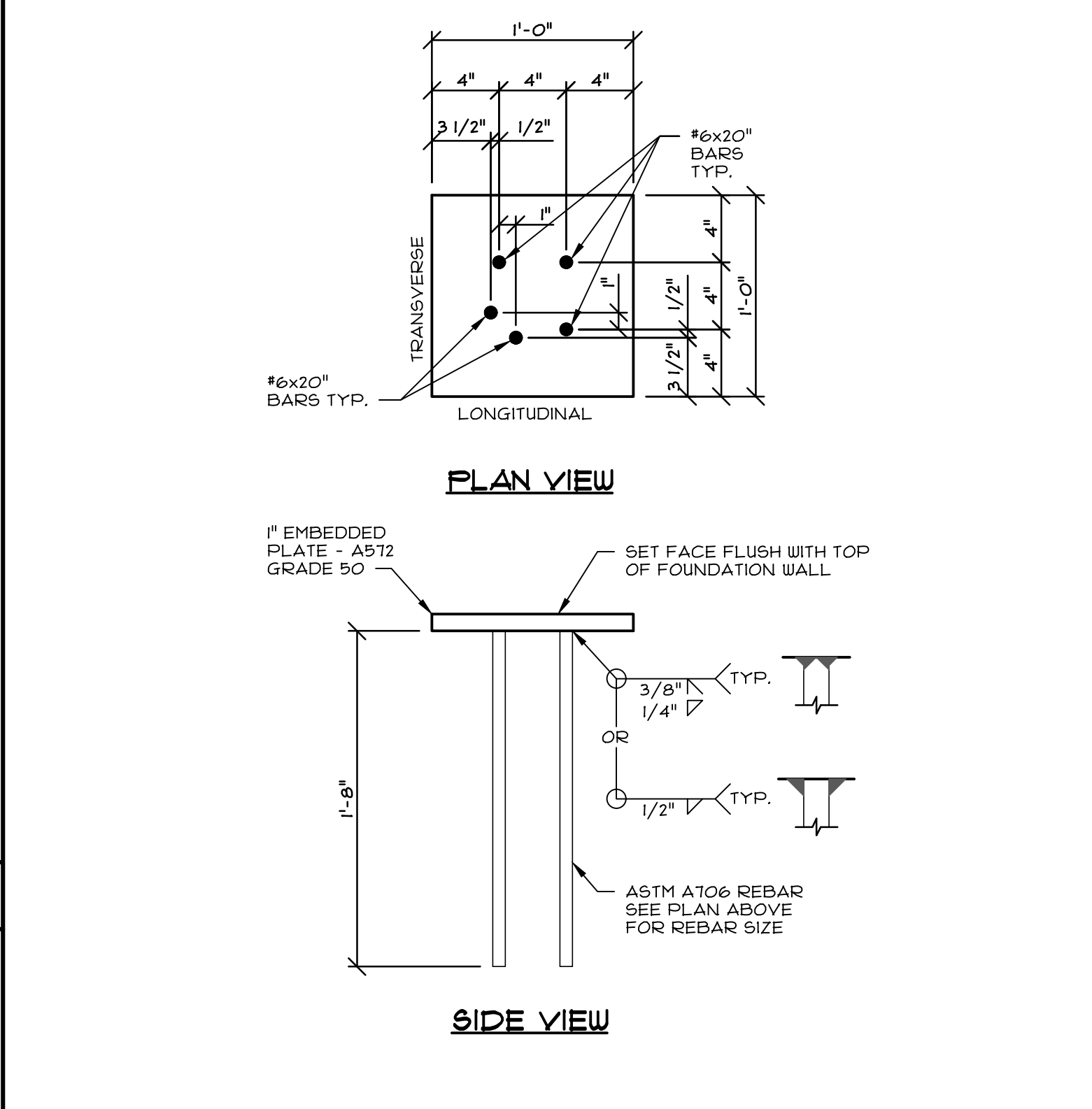
  

f'c = 4000 PSI AT 28 DAYS							
SPlice CLASS	REINFORCEMENT LOCATION	REINFORCEMENT SIZE (GR 60, UNO.)					
		#3	#4	#5	#6	#7	#8
B	TOP	24"	32"	40"	48"	70"	80"
	OTHER	19"	25"	31"	37"	54"	62"

f'c = 4500 PSI AT 28 DAYS							
SPlice CLASS	REINFORCEMENT LOCATION	REINFORCEMENT SIZE (GR 60, UNO.)					
		#3	#4	#5	#6	#7	#8
B	TOP	23"	31"	39"	46"	66"	77"
	OTHER	18"	23"	30"	35"	52"	59"

NOTES:  
 1. TABLE ABOVE BASED ON UNCOATED REINFORCING.  
 2. TOP REINFORCING IS HORIZONTAL REINFORCEMENT THAT HAS MORE THAN TWELVE INCHES OF FRESH CONCRETE CAST BELOW IT.  
 3. FOR BARS WITH COVER LESS THAN ONE BAR DIAMETER OR WITH CLEAR SPACING LESS THAN TWO BAR DIAMETERS, INCREASE LAP SPLICE BY 50%.  
 4. FOR LIGHTWEIGHT AGGREGATE CONCRETE, (Wt. = 110 PCF) INCREASE LAP SPLICE BY 30%.  
 5. ALL LAP SPLICES SHALL BE CLASS B, UNO.

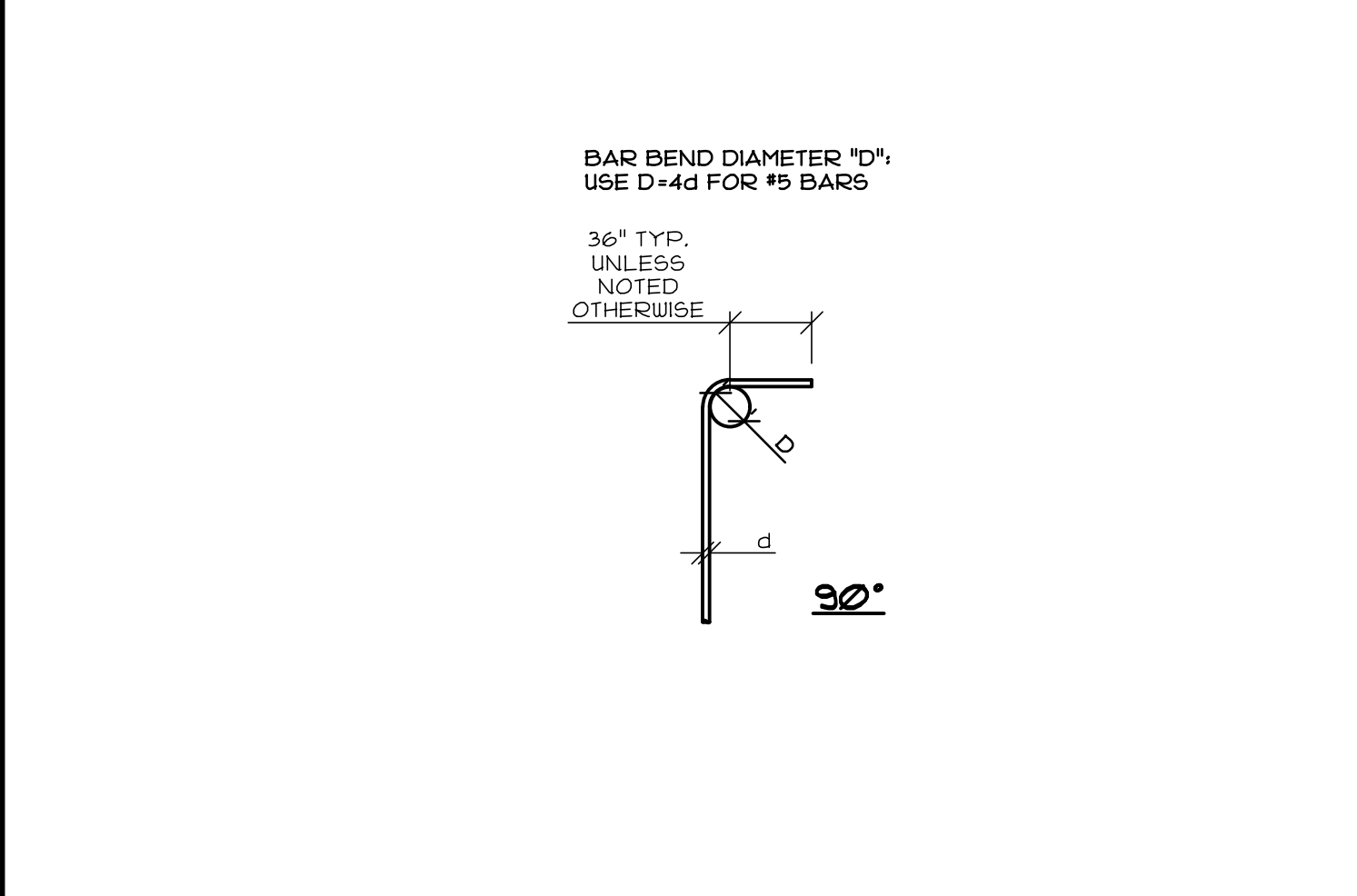
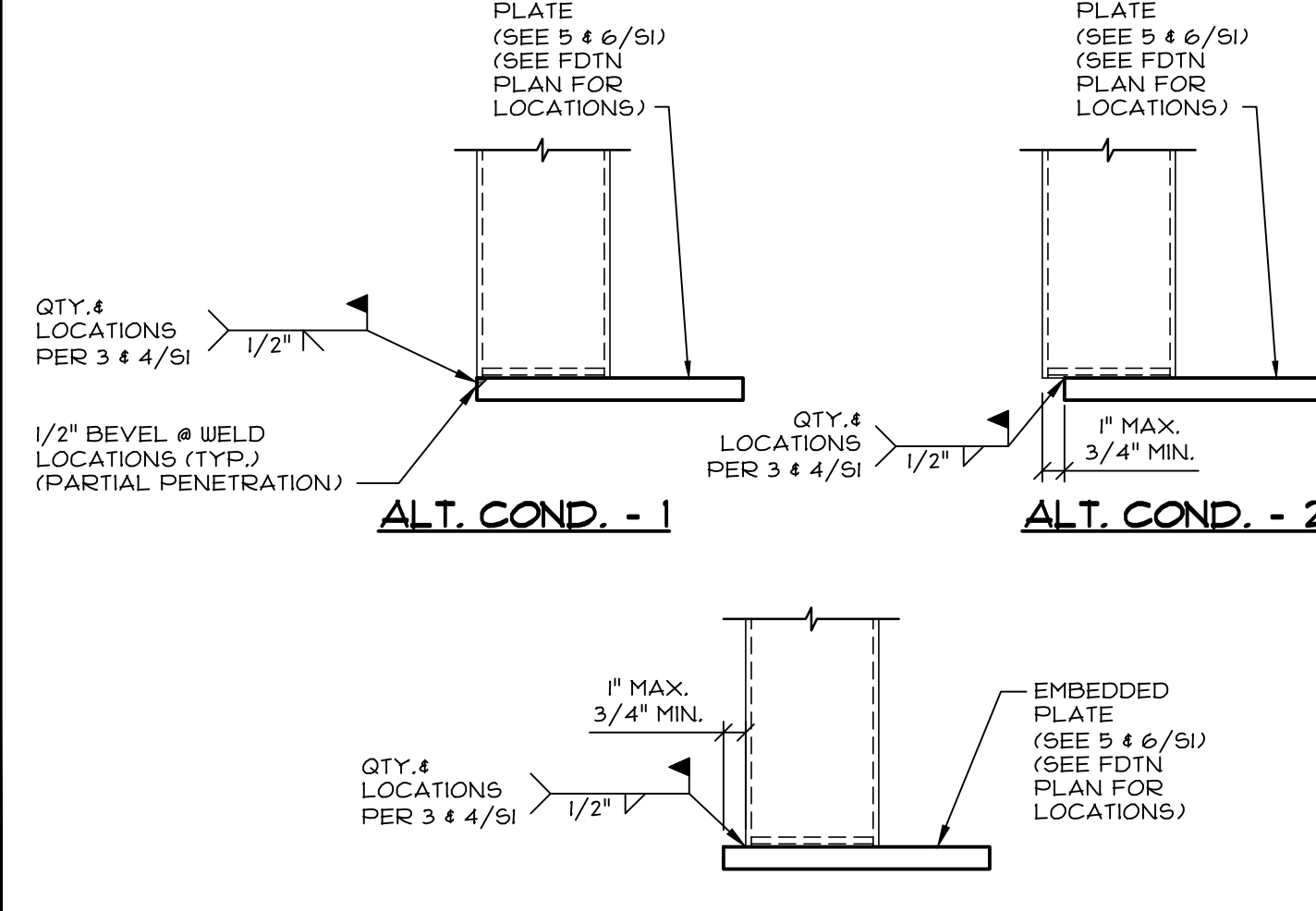


**15** REINFORCEMENT LAP SPLICE LENGTHS  
SCALE: NONE

**7** EMBED PLATE WELDED CONN. @ HRC  
SCALE: 1/2"=1'-0"

**5** EMBED PLATE - CORNER  
SCALE: 1/2"=1'-0"

**6** EMBED PLATE - MODULE LINE  
SCALE: 1/2"=1'-0"



- IN ADDITION TO ALL OTHER REQUIREMENTS WITHIN THE APPROVED PLANS, THE FOLLOWING ARE ALSO REQUIRED:
1. IN ADDITION TO THE CONSTRUCTION TOLERANCES ALLOWED IN ACI OR OTHER REFERENCE DOCUMENTS FOR CONCRETE CONSTRUCTION, SEE NOTES 2, 3, & 4 BELOW FOR THE SPECIFIC REQUIREMENTS IN THIS PROJECT.
  2. FORMS MUST BE CONSTRUCTED AND CHECKED FOR TRUE STRAIGHT LINES, LEVELNESS AND 90-DEGREE CORNERS.
  3. THE EMBEDDED BEARING PLATES FOR THE MODULE CORNERS MUST BE FLAT, LEVEL AND EVEN WITH THE TOP OF THE STEM WALL CONCRETE.
  4. THE LEVEL OF THE EMBEDDED PLATES MUST BE CHECKED TO DETERMINE WHICH IS HIGHEST WITH A BUILDER'S LEVEL. THAT PLATE IS SET AS 0'-0" AND ALL OTHERS SHALL BE SET TO ENSURE THAT ALL THEY ARE WITHIN 1/10 OF AN INCH OF THE 0'-0" EMBED PLATE ELEVATION. THE LEVELING PROCEDURE MUST BE DONE IN THE PRESENCE OF THE INSPECTOR OF RECORD WHO WILL REPORT ANY OUT OF TOLERANCE DEVIATION TO THE ENVIROPLEX PROJECT MANAGER AND THE STRUCTURAL ENGINEER OF RECORD.
  5. IF THERE ARE GAPS BETWEEN THE BOTTOM OF THE FLOOR BEAMS AND THE TOP OF THE CONCRETE STEM WALL THE VOID MUST BE FILLED WITH FLOWABLE NON SHRINK 8000 PSI GROUT IN COMPLIANCE WITH THE REPAIR DETAILS ON SHEET SICS.
  6. THE CONCRETE SUB-CONTRACTOR ASSUMES ALL RESPONSIBILITY OF THE COST OF CORRECTIONS OF ANY DEFECTS THAT CAUSE THE MODULES TO BE UNSUPPORTED DUE TO LACK OF CONTACT WITH THE EMBED PLATES OR THE CONCRETE STEM WALLS, OR NOT CONNECTED TO THE EMBEDDED PLATES PER THE APPROVED PLANS.

FOR USE:  
 1) 20 PSF ROOF LIVE LOAD W/ 65 & 150 PSF FLOOR LL.  
 2) ALL ROOF OPTIONS.  
 3) ALL EXTERIOR FINISH OPTIONS.

PRE-CHECK (PC) DOCUMENT  
 Code: 2022 CBC  
 A separate project application for construction is required.

**9** EMBED PLATE WELDED CONN. @ HSS  
SCALE: 1/2"=1'-0"

**2** TYP. REINFORCING BAR BENDS  
SCALE: NONE

**18** FOUNDATION SUB-CONTRACTOR REQUIREMENTS

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 www.cyseng.com

10/11/2023

REGISTERED PROFESSIONAL ENGINEER  
 No. S23030  
 STATE OF CALIFORNIA

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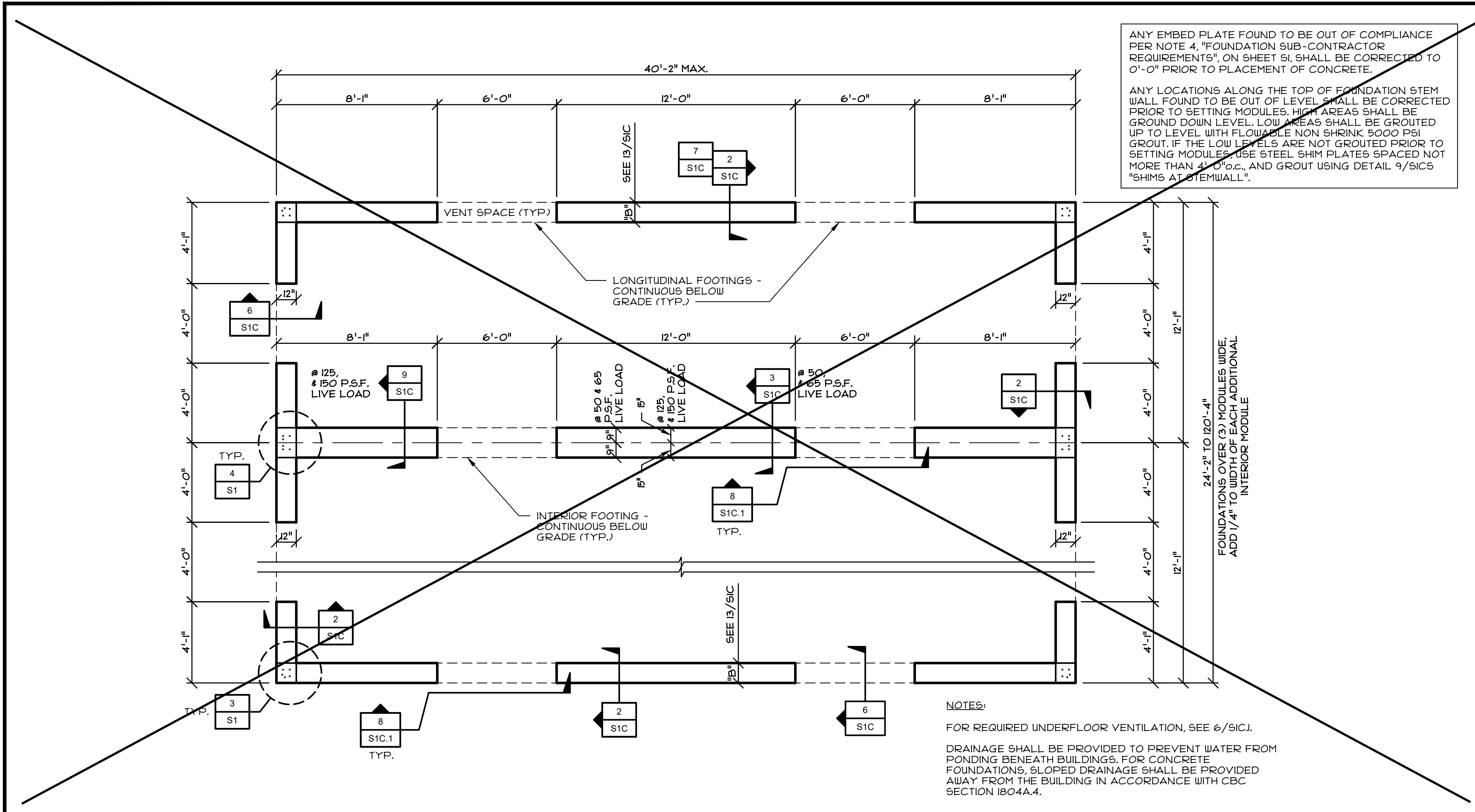
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 SS [ ] PLS [ ] ACS [ ] CG [ ]  
 DATE: 10/24/2023

ROBERTS FERRY ES  
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 ROBERTS FERRY UESD

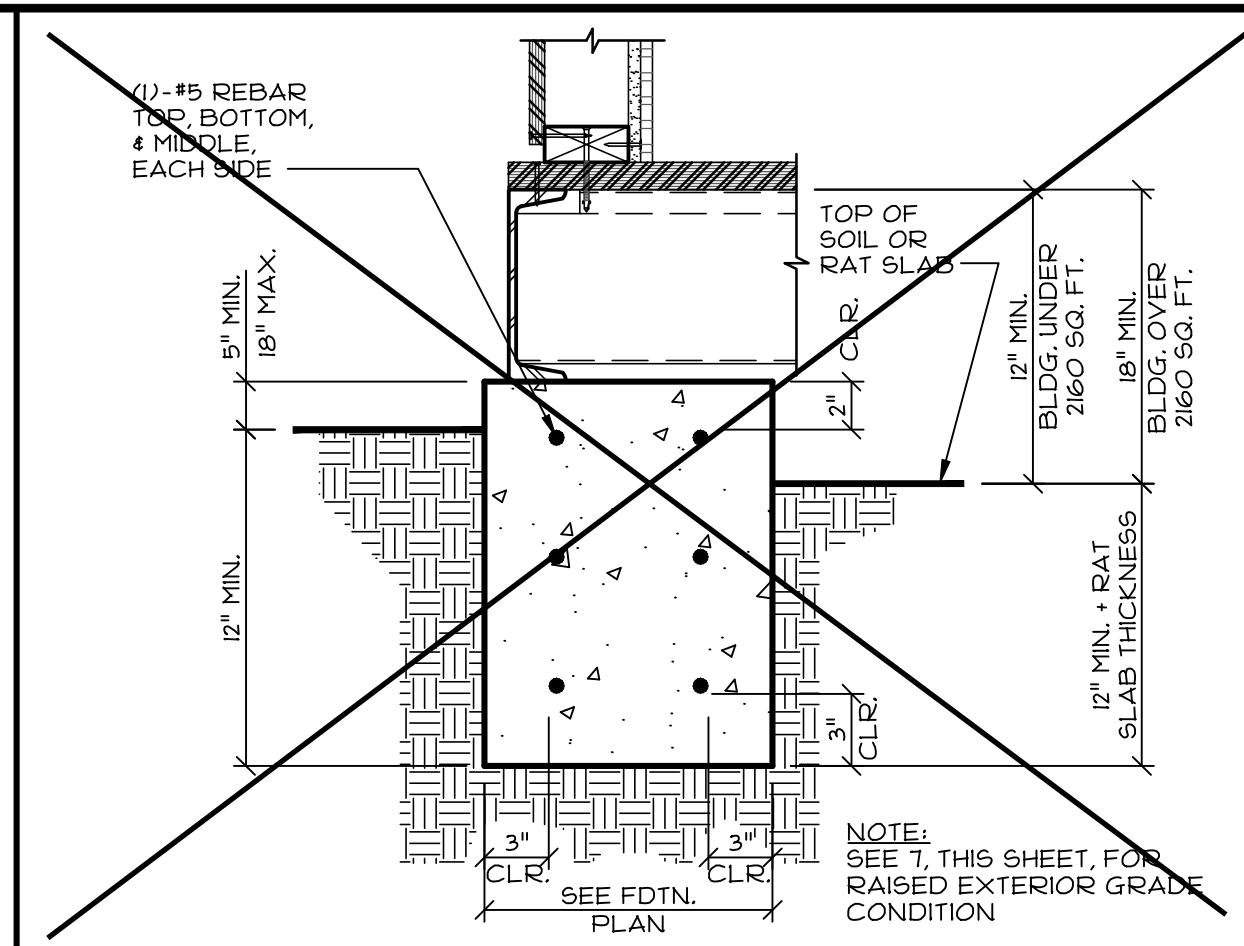
FOOTING DETAILS & NOTES

REV / DATE:	BY:
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DATE:	

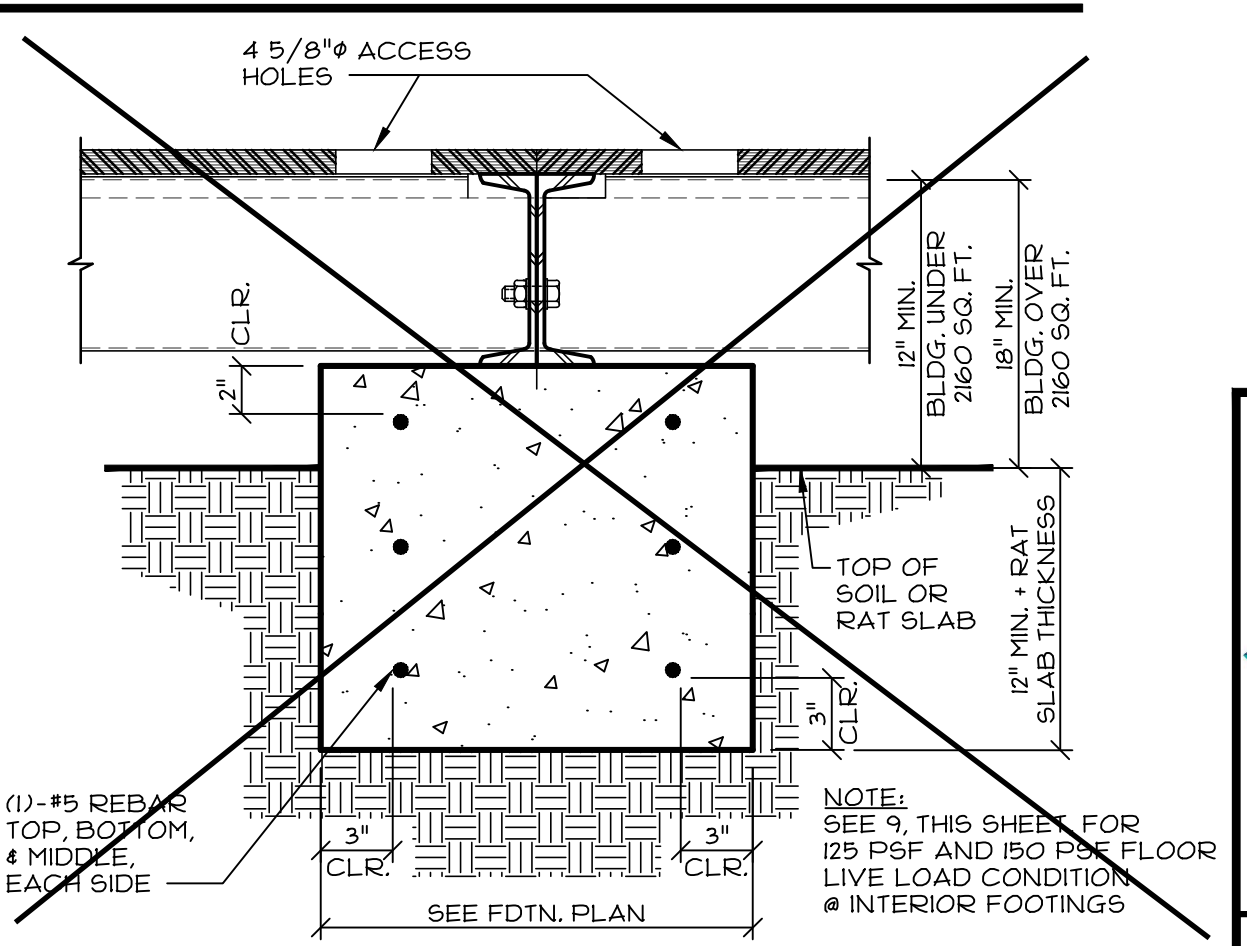
S1



1 CONCRETE FOUNDATION PLAN  
SCALE: 1/4"=1'-0"



2 PERIMETER FOOTING - 50, 65, 125, 150 psf  
SCALE: 1-1/2"=1'-0"

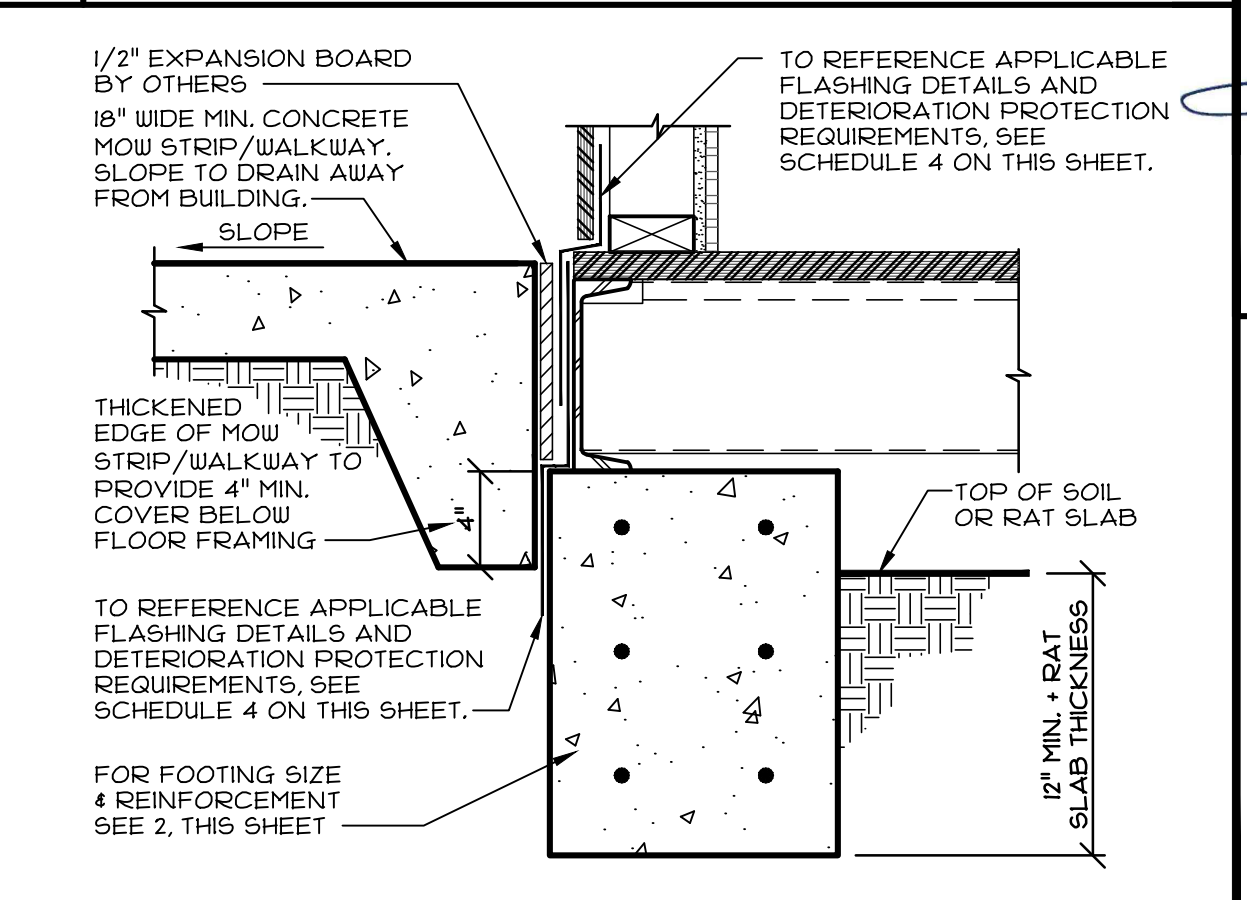


3 INTERIOR FOOTING - 50 & 65 PSF  
SCALE: 1-1/2"=1'-0"

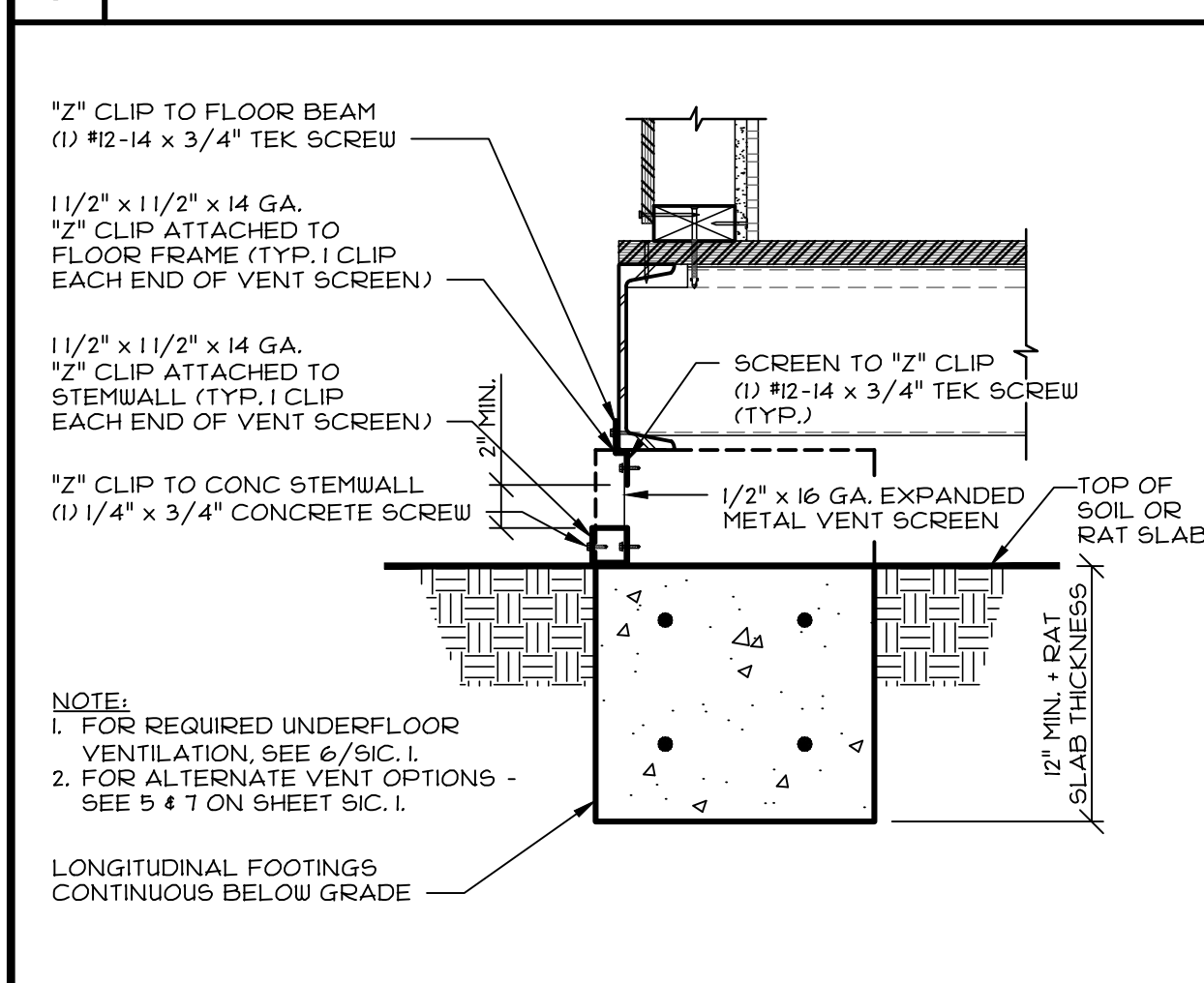
4 PLYWOOD FLOOR SHEET REFERENCES

STUD SIZE	BUILDINGS UNDER 2160 S.F.	BUILDINGS OVER 2160 S.F.
2x4	A6	A6.1
2x6 OR 2x8	A6.0	A6.2

4 DETERIORATION PROTECTION



7 PERIMETER FLASHING DETAIL  
SCALE: 1-1/2"=1'-0"



6 VENT SCREEN DETAIL  
SCALE: 1-1/2"=1'-0"

13 "B" FOOTING WIDTH SCHEDULE

ALLOWABLE BEARING (psf)	MODULE CONFIGURATION	FOOTING WIDTH "B" (inches)		
		CLASSROOM (50 psf & 50 lb psf)	125psf	150psf
1500	STD BI-PITCH, STD SHED - NO STUCCO ALL ROOF OPTIONS - NO STUCCO ALL ROOF OPTIONS - STUCCO	12	15	18

5

FOR 2/SIC

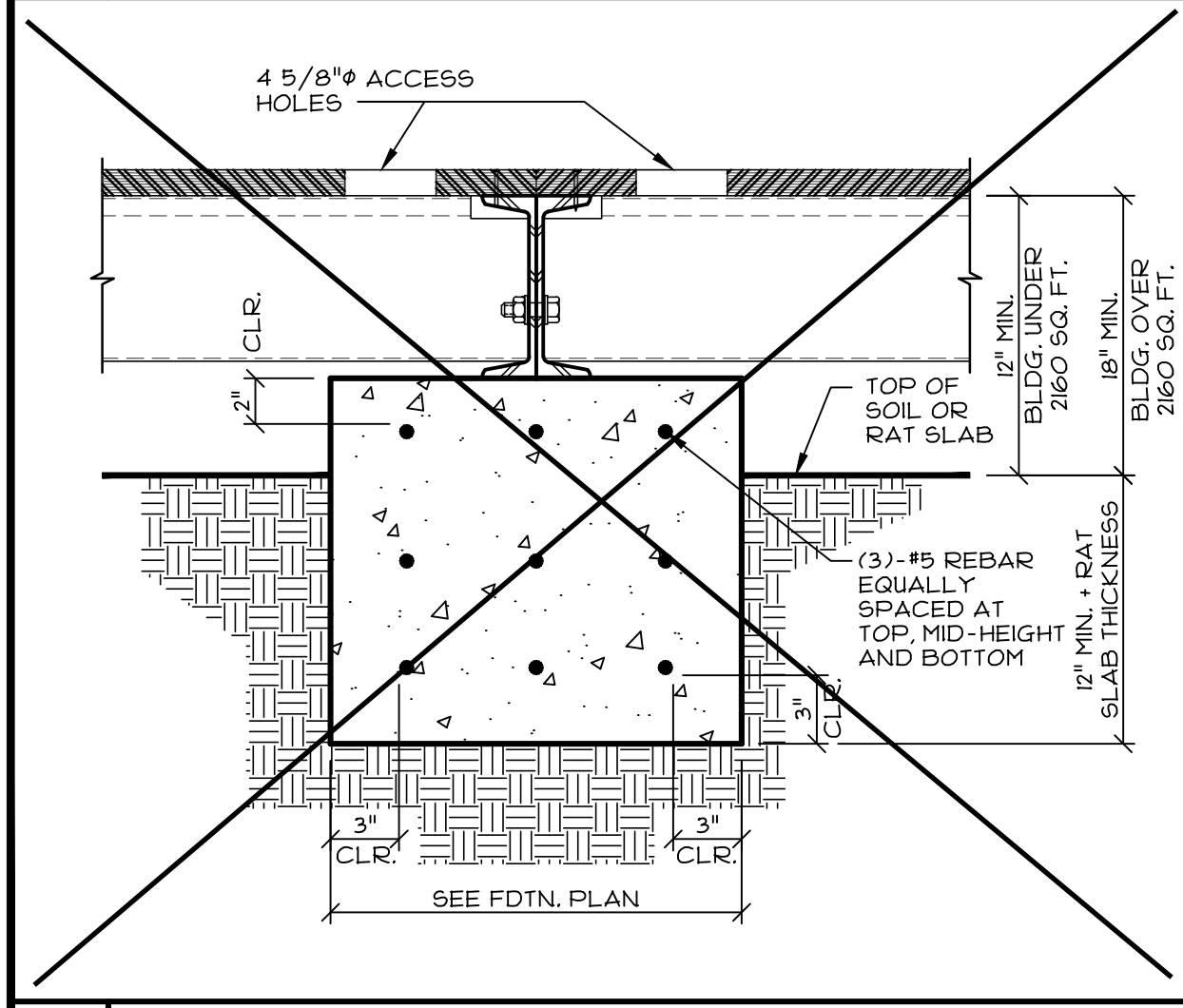
ALLOWABLE BEARING (psf)	MODULE CONFIGURATION	FOOTING WIDTH "B" (inches)		
		CLASSROOM (50 psf & 50 lb psf)	125psf	150psf
1500	STD BI-PITCH, STD SHED - NO STUCCO ALL ROOF OPTIONS - NO STUCCO ALL ROOF OPTIONS - STUCCO	12	15	18

13 "B" FOOTING WIDTH SCHEDULE

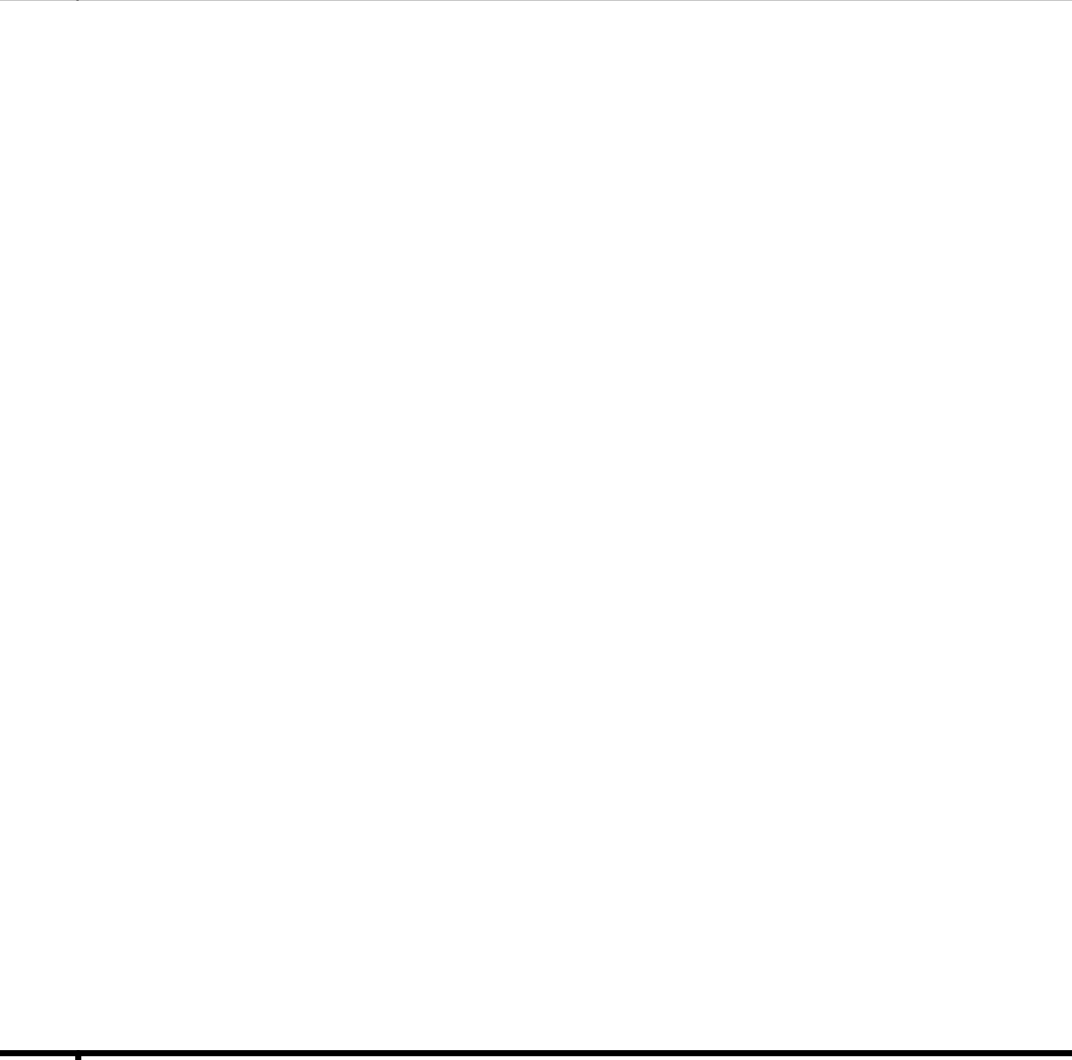
- NOTES:
- ALLOWABLE SOIL BEARING PRESSURE IS 1500 P.S.F., WHICH IS THE MAXIMUM ALLOWED WITHOUT A GEO-TECH REPORT. IF A SITE SPECIFIC GEOHAZARD REPORT IS NOT PROVIDED TO ENVIROPLEX AND ITS CONSULTANTS, THE SCHOOL DISTRICT ASSUMES ALL RESPONSIBILITY FOR ANY SETTLEMENT DUE TO SOFT SOILS OR EFFECTS DUE TO EXPANSIVE SOILS. ANY ADDITIONAL WORK REQUESTED TO MITIGATE THESE EFFECTS IS NOT APPROVED IN THIS PC.
  - CONCRETE FOR FOOTINGS SHALL HAVE A MINIMUM STRENGTH AS INDICATED IN THE SULFATE EXPOSURE TABLES BELOW AND MADE WITH 1" MAX ASTM C-33 AGGREGATES PER ACI 318-19 SECTION 26.4.12 AND IN ACCORDANCE WITH CBC SECTION 1903A.5.
  - MIX DESIGN SHALL BE PER ACI 318-19 SECTION 26.4.3J
  - REINFORCING BARS SHALL BE #615, GRADE 60 MIN.
  - VENTILATION TO MEET REQUIREMENTS PER IR 16-1. PROVIDE MINIMUM 1 SQ. FT. OF NET FREE VENT SPACE PER 150 SQ. FT. (PROVIDE 2" MINIMUM CLEARANCE)
  - TESTING OF REINFORCING BARS USED IN SINGLE STORY BUILDINGS MAY BE WAIVED PROVIDED CERTIFIED MILL TEST REPORTS ARE PROVIDED FOR EACH SHIPMENT OF SUCH REINFORCEMENT (CBC 1904.2).
  - CONCRETE MIX SHALL HAVE WATER CEMENT RATIO PER EXPOSURE TABLES BELOW.
  - ADD WATER REDUCING ADMIXTURE IN COMPLIANCE WITH ASTM C494 TYPE A.
  - CEMENTITIOUS FLY ASH OR SLAG MAY REPLACE A MAX. OF 20% OF CEMENT BY WEIGHT.
  - MIX DESIGN OF "UNKNOWN" EXPOSURE CLASS SHALL BE USED BY DEFAULT IF A SITE SPECIFIC GEO-TECHNICAL REPORT IS NOT USED NOR AVAILABLE.
  - ALL REBAR LAP SPLICES SHALL BE STAGGERED, CLASS B, TYPICAL UNLESS NOTED OTHERWISE. FOR LAP SPLICE LENGTHS, SEE SCHEDULE 15/S1.
  - PER ACI 318-19 SECTION 19.3.3J, CONCRETE SUBJECT TO FREEZING AND THAWING EXPOSURE CLASSES F1, F2, OR F3 SHALL BE AIR ENTRAINED. TARGET AIR CONTENT PER TABLE 19.3.3J (EXPOSURE CLASS F1 = 4.5%, EXPOSURE CLASSES F2 AND F3 = 6%)

EXPOSURE CLASS - S0	SITE WATER SOLUBLE SULFATE IN SOIL, PERCENT BY MASS: ASTM C150 CEMENT TYPE: COMPRESSIVE STRENGTH: WATER CEMENT RATIO:	NO SO <sub>4</sub> <sup>2-</sup> < 0.10 ppm NO RESTRICTION 3000 PSI (MIN.) 0.50 MAX.
EXPOSURE CLASS - S1	SITE WATER SOLUBLE SULFATE IN SOIL, PERCENT BY MASS: ASTM C150 CEMENT TYPE: COMPRESSIVE STRENGTH: WATER CEMENT RATIO:	0.10 ppm < SO <sub>4</sub> <sup>2-</sup> < 0.20 ppm "B" 4000 PSI (MIN.) 0.50 MAX.
EXPOSURE CLASS - S2	SITE WATER SOLUBLE SULFATE IN SOIL, PERCENT BY MASS: ASTM C150 CEMENT TYPE: COMPRESSIVE STRENGTH: WATER CEMENT RATIO:	0.20 ppm < SO <sub>4</sub> <sup>2-</sup> < 2.0 ppm "V" 4500 PSI (MIN.) 0.45 MAX.
EXPOSURE CLASS - S3	SITE WATER SOLUBLE SULFATE IN SOIL, PERCENT BY MASS: ASTM C150 CEMENT TYPE: COMPRESSIVE STRENGTH: WATER CEMENT RATIO:	SO <sub>4</sub> <sup>2-</sup> > 2.0 ppm "V + pozzolan or slag" 4500 PSI (MIN.) 0.45 MAX.
EXPOSURE CLASS - UNKNOWN	SITE WATER SOLUBLE SULFATE IN SOIL, PERCENT BY MASS: ASTM C150 CEMENT TYPE: COMPRESSIVE STRENGTH: WATER CEMENT RATIO:	UNKNOWN "V" 4500 PSI (MIN.) 0.45 MAX.

11 GENERAL NOTES



9 INTERIOR FOOTING - 125 & 150 PSF  
SCALE: 1-1/2"=1'-0"



8

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 DATE: 10/24/2023

FOR USE:  
 1) 20 PSF ROOF LIVE LOAD W/ 50, 65, 125 & 150 psf FLOOR LL.  
 2) ALL ROOF OPTIONS.  
 3) ALL EXTERIOR FINISH OPTIONS.

PRE-CHECK (PC) DOCUMENT  
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ROBERTS FERRY ES  
 at  
 ROBERTS FERRY UESD

CONCRETE FOUNDATION PLAN, NO CRAWLSPACE, FOOTING DETAILS & NOTES (WOOD FLOORS)

REV	DATE	BY

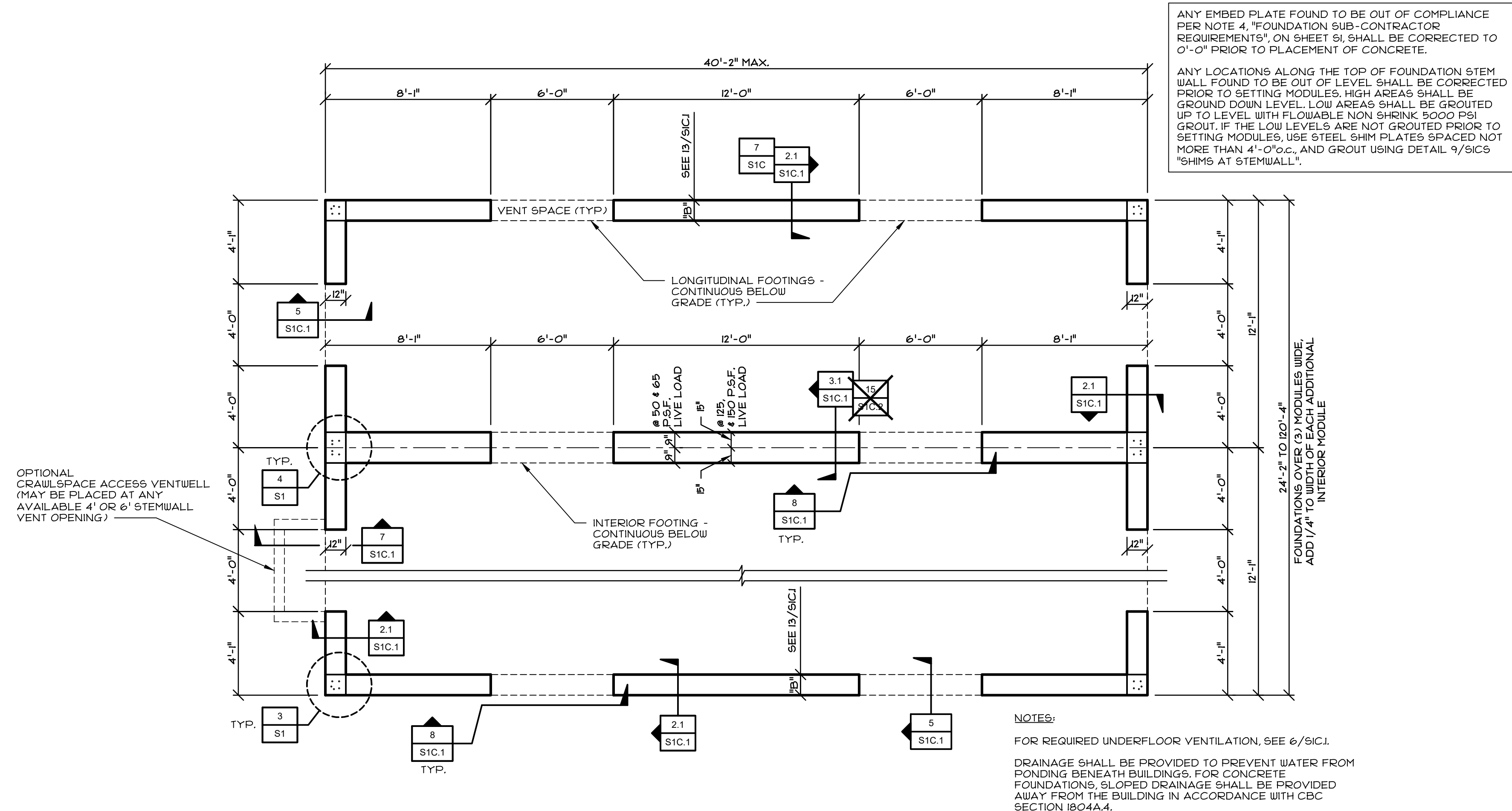
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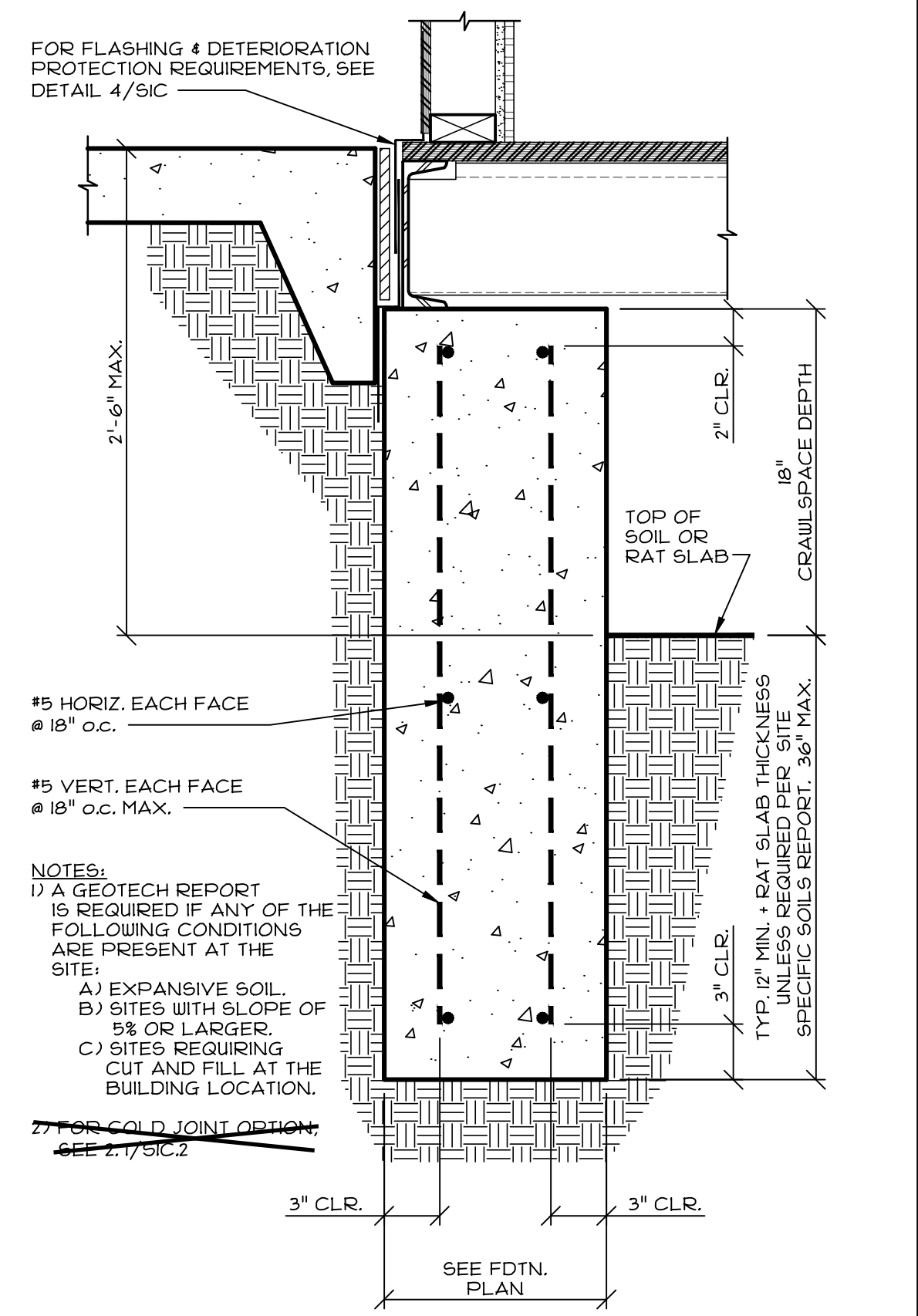
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24"x40" TO 120"x40" P.C.

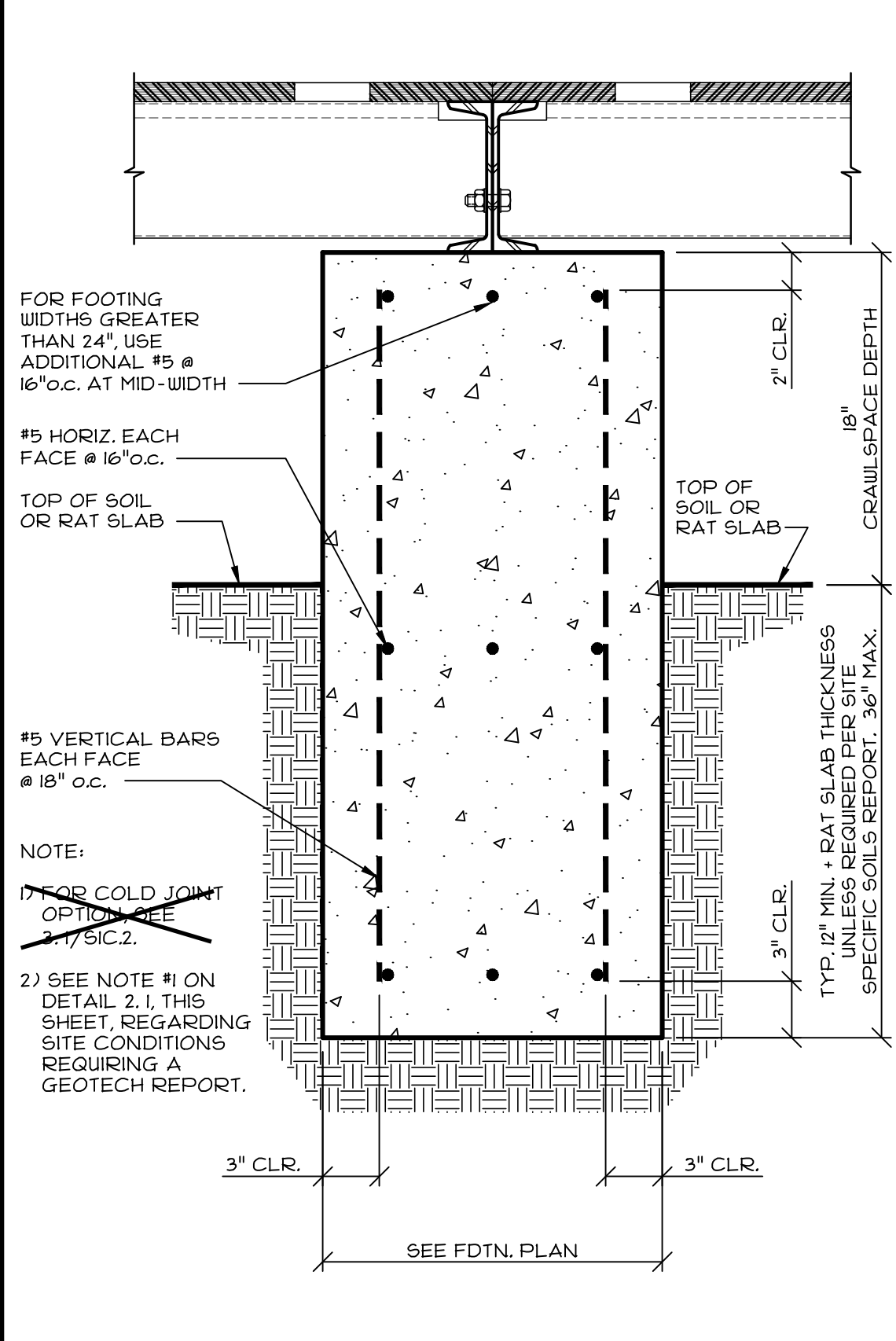




**1 CONCRETE FOUNDATION PLAN**  
SCALE: 1/4"=1'-0"



**2.1 PERIMETER FOOTING**  
SCALE: 1/2"=1'-0"

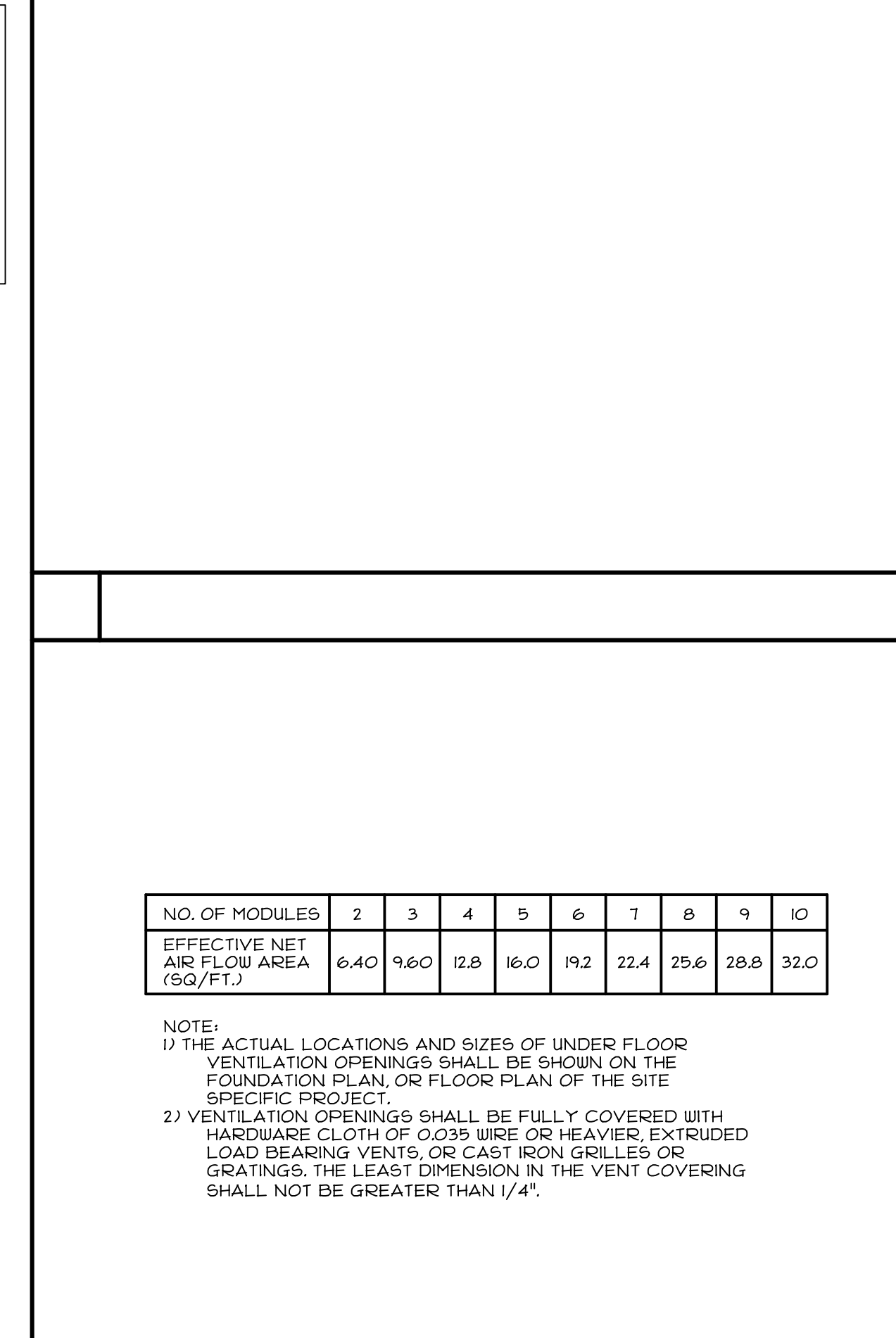


**3.1 INTERIOR FOOTING**  
SCALE: 1/2"=1'-0"

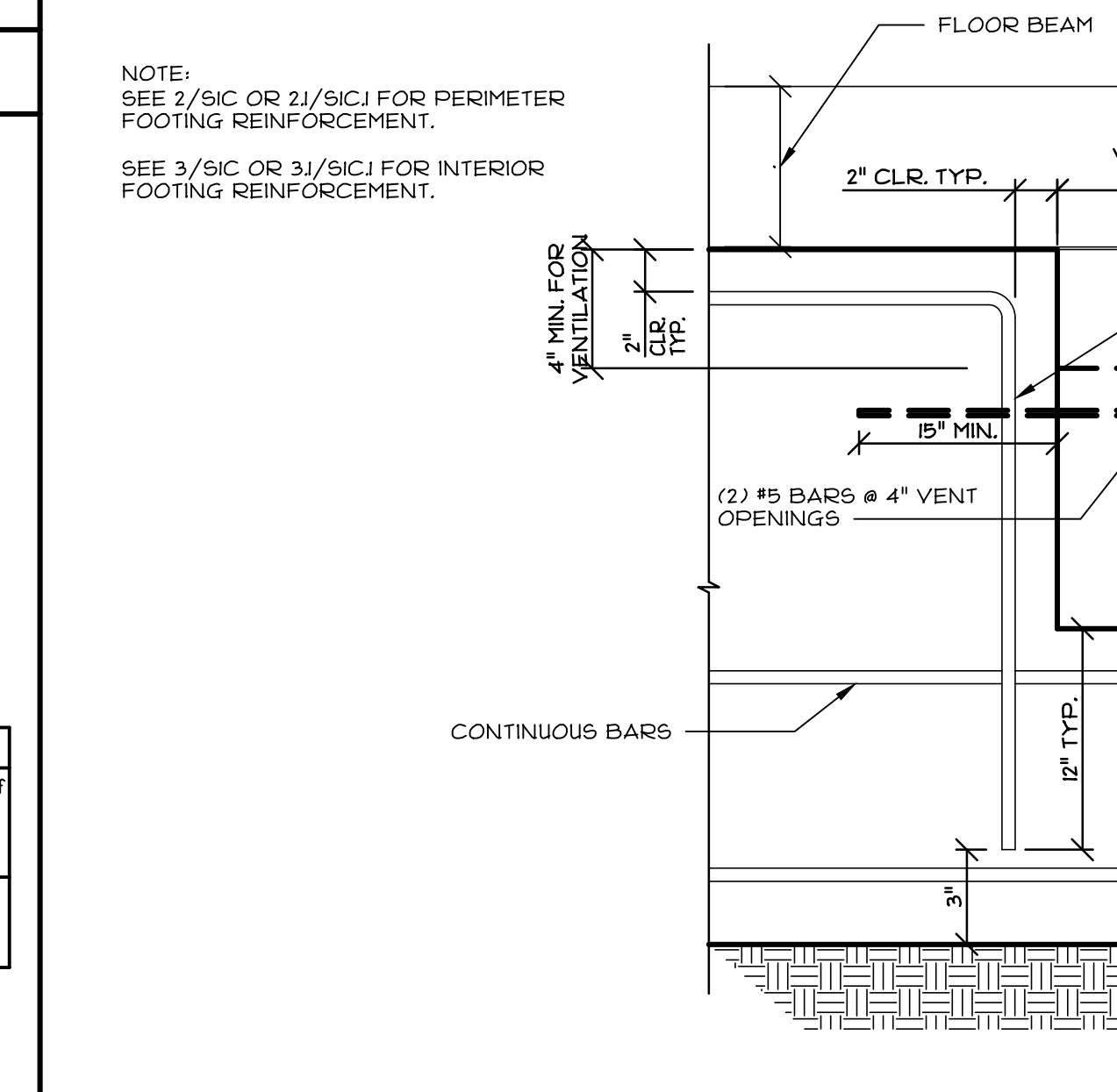
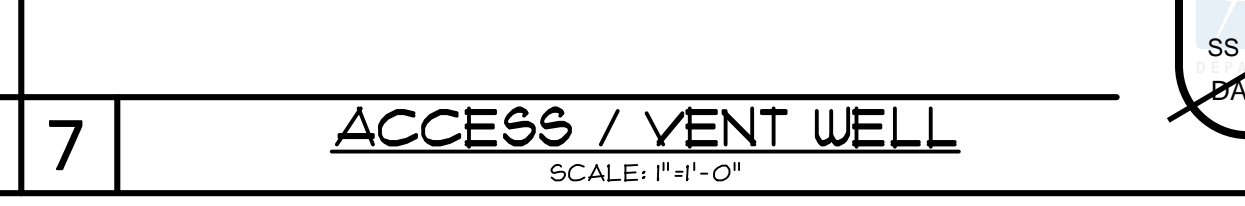
FOR 21/SIC.1 AND 21/SIC.2

ALLOWABLE BEARING (psf)	MODULE CONFIGURATION	FOOTING WIDTH "B" (inches)			
		CLASSROOM (50 psf & 50 x 15 psf) INT., EMBED INT., EMBED < 12"	> 12"	125psf	150psf
1500	STD BI-PITCH, STD SHED - NO STUCCO ALL ROOF OPTIONS - NO STUCCO ALL ROOF OPTIONS - STUCCO	12	15	15	18

**13 "B" FOOTING WIDTH SCHEDULE**



**6 MIN. UNDERFLOOR VENTILATION REQ.**



**8 FOOTING AT VENT OPENING**

FOR USE:  
 1) 20 PSF ROOF LIVE LOAD W/ 50, 65, 125 & 150 psf FLOOR LL.  
 2) ALL ROOF OPTIONS.  
 3) ALL EXTERIOR FINISH OPTIONS.

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JOB No.:  
 DRAWN BY:  
 DATE:

**SIC.1**

FOR FLASHING & DETERIORATION PROTECTION REQUIREMENTS, SEE DETAIL 4/SIC

METAL GRATE

POLY VENT

ALIGNMENT SLEEVE FOR 1/4" DIA. THREADED ROD (TYP. 2 PER VENT)

TOP OF SOIL OR RAT SLAB

VENT OPENING

LONGITUDINAL FOOTINGS CONTINUOUS BELOW GRADE

NOTE:  
 GRID OPENING IN GRATING NOT TO EXCEED 1/2" IN DIRECTION OF PEDESTRIAN TRAFFIC FLOW

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

ACCESS WELL GRATING

11/2" x 11/2" x 14 GA. ANGLE W/ #12-14x3/4" #12" o.c. FOR SUPPORT

15" MIN. - RAT SLAB THICKNESS

FOOTING EMBEDMENT

2'-0"

15" MIN.

FOOTING BEYOND

LONGITUDINAL FOOTINGS CONTINUOUS BELOW GRADE

TOP OF SOIL OR RAT SLAB

NOTE:  
 GRID OPENING IN GRATING NOT TO EXCEED 1/2" IN DIRECTION OF PEDESTRIAN TRAFFIC FLOW

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 02-121249-PC  
 REVIEWED FOR  
 SS [ ] PLS [ ] ACS [ ] CG [ ]  
 DATE: 10/24/2023

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 8140 Nimitz Park Drive, Suite 650  
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 www.cyseng.com

10/11/2023

REGISTERED PROFESSIONAL ENGINEER  
 No. S2030  
 STATE OF CALIFORNIA

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 477 E CARPENTER ROAD  
 STOCKTON, CA 95215  
 (209) 466-6000

**ROBERTS FERRY ES**  
 at  
**ROBERTS FERRY UESD**

CONCRETE FOUNDATION PLAN WITH CRAWLSPACE, FOOTING DETAILS (WOOD FLOORS)

REV / DATE: BY:

JOB No.:  
 DRAWN BY:  
 DATE:

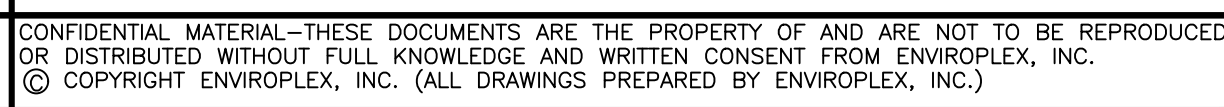
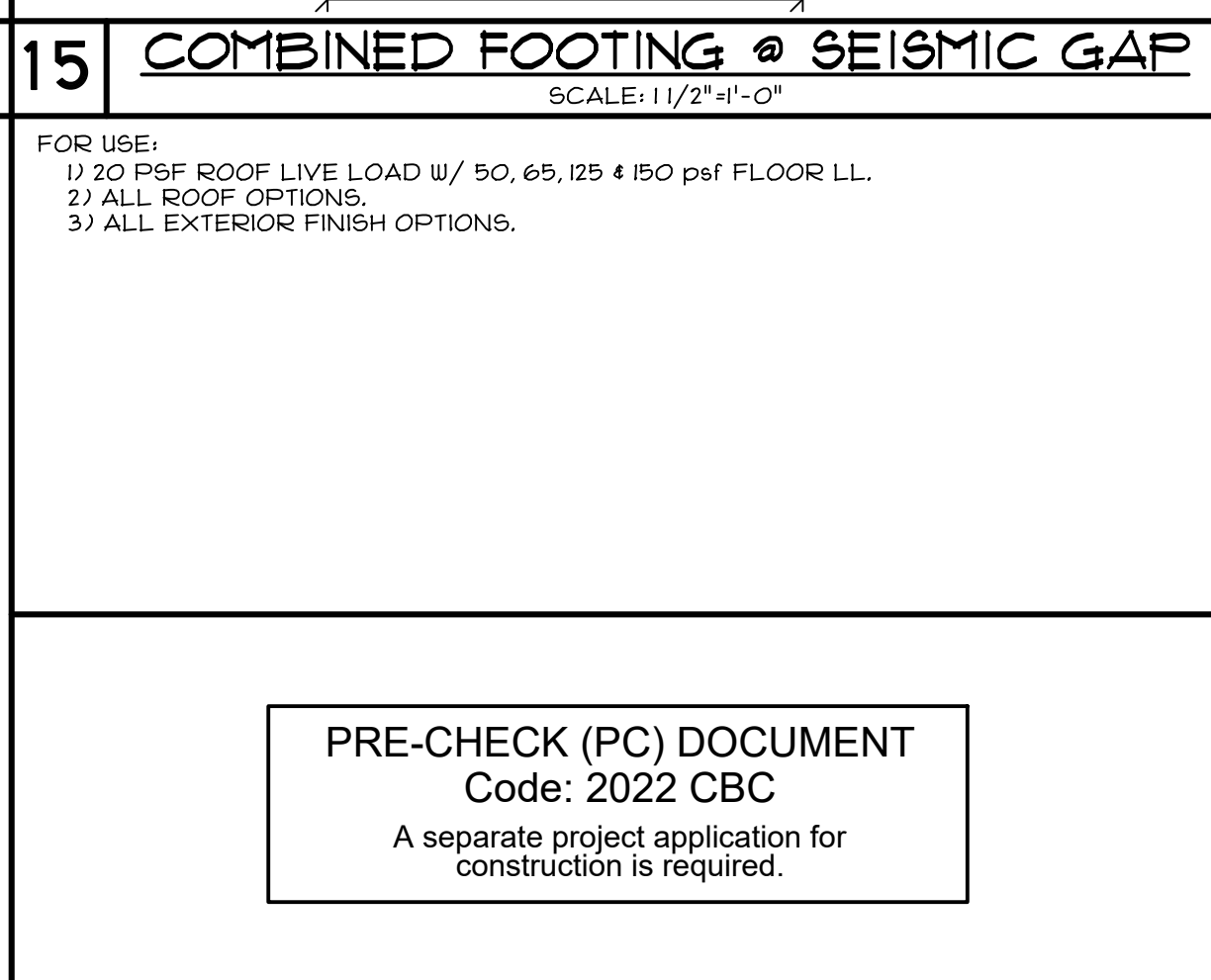
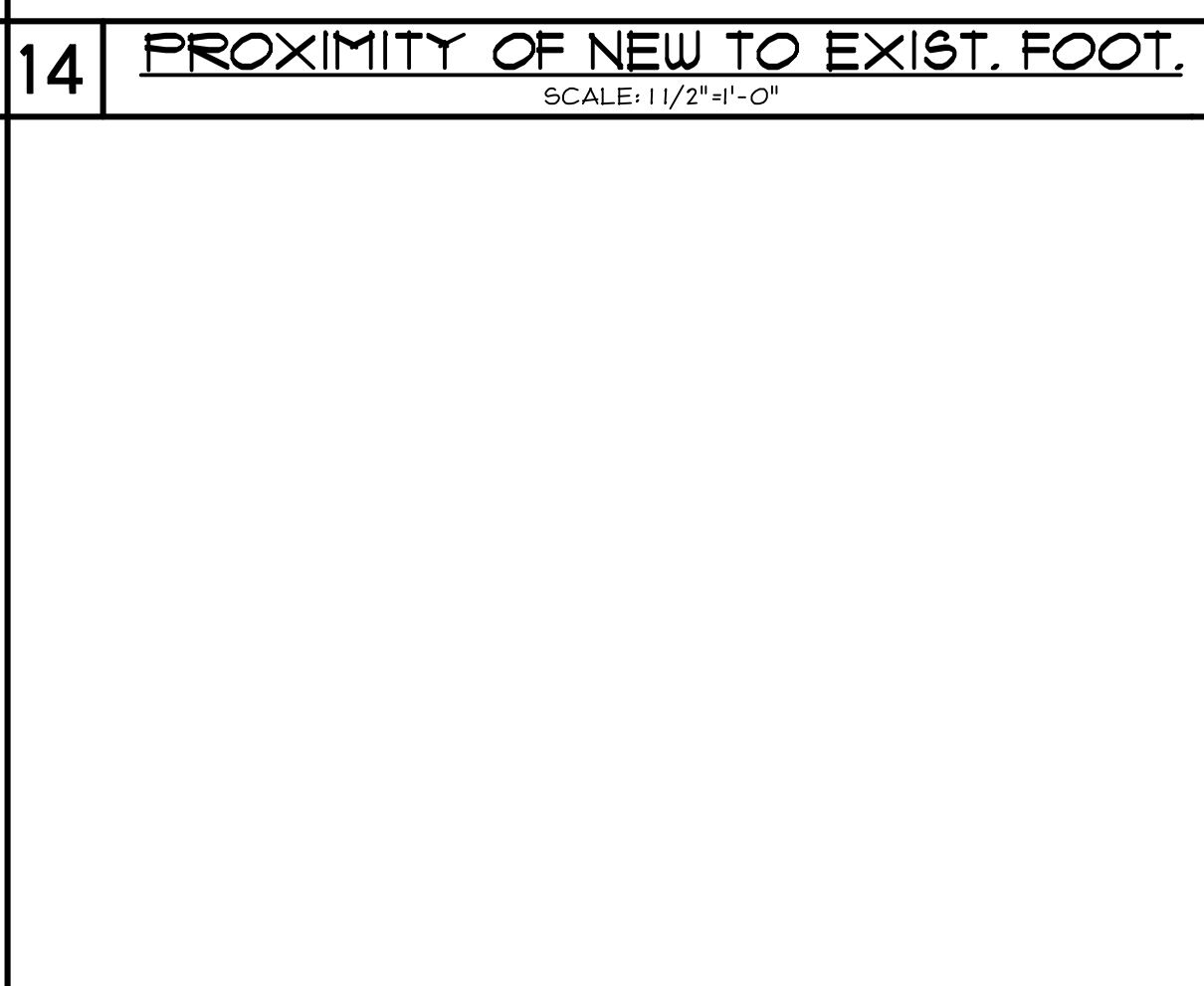
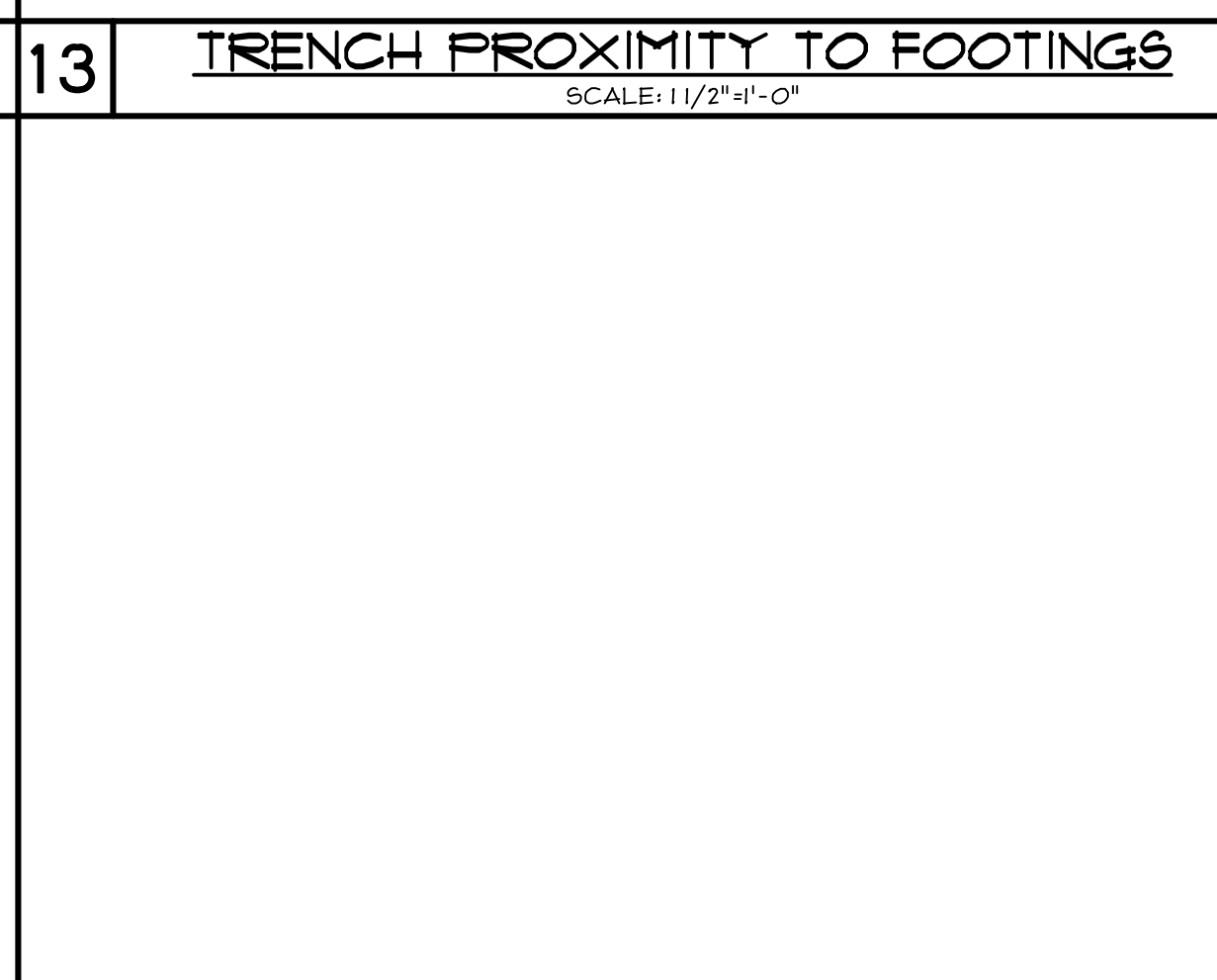
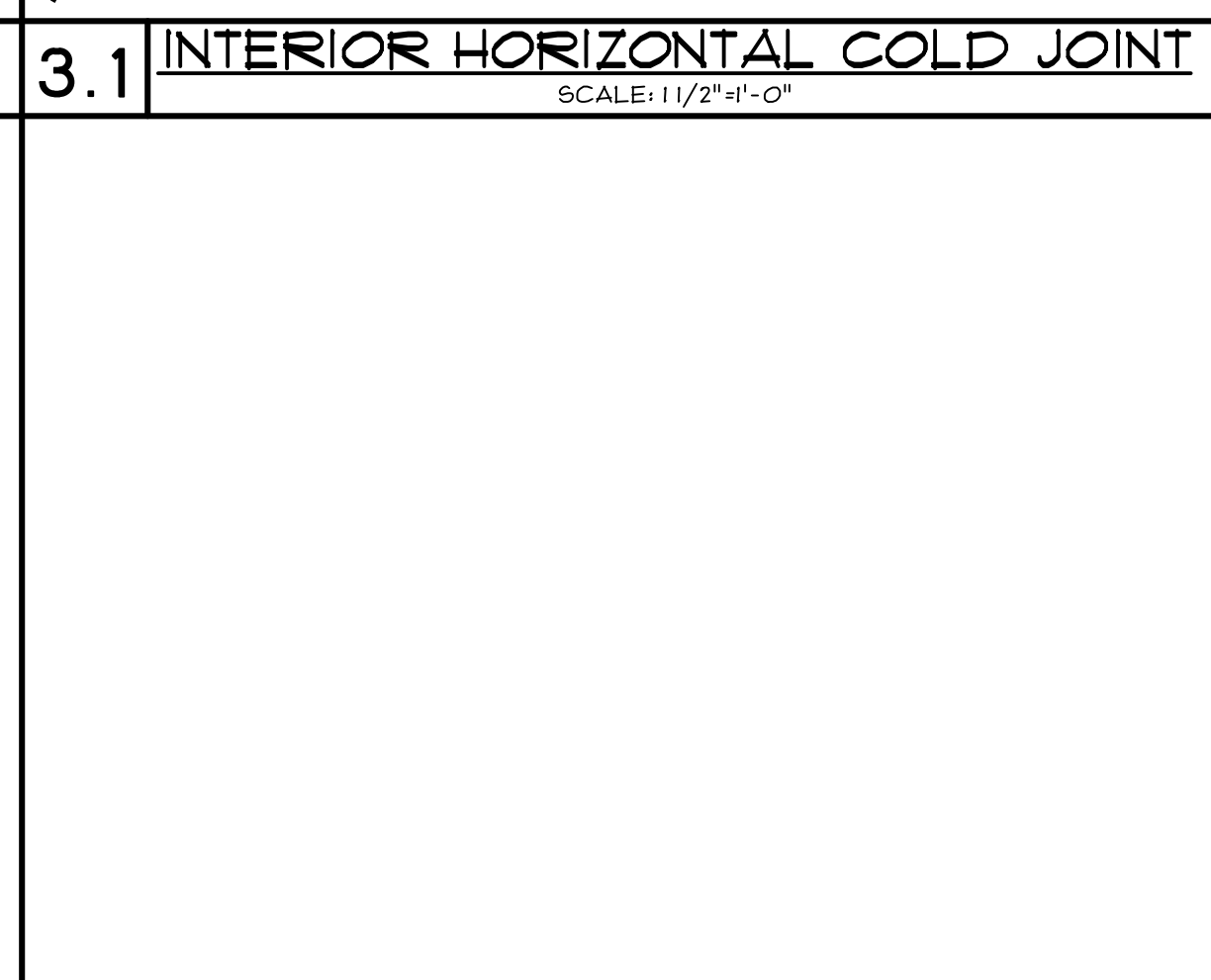
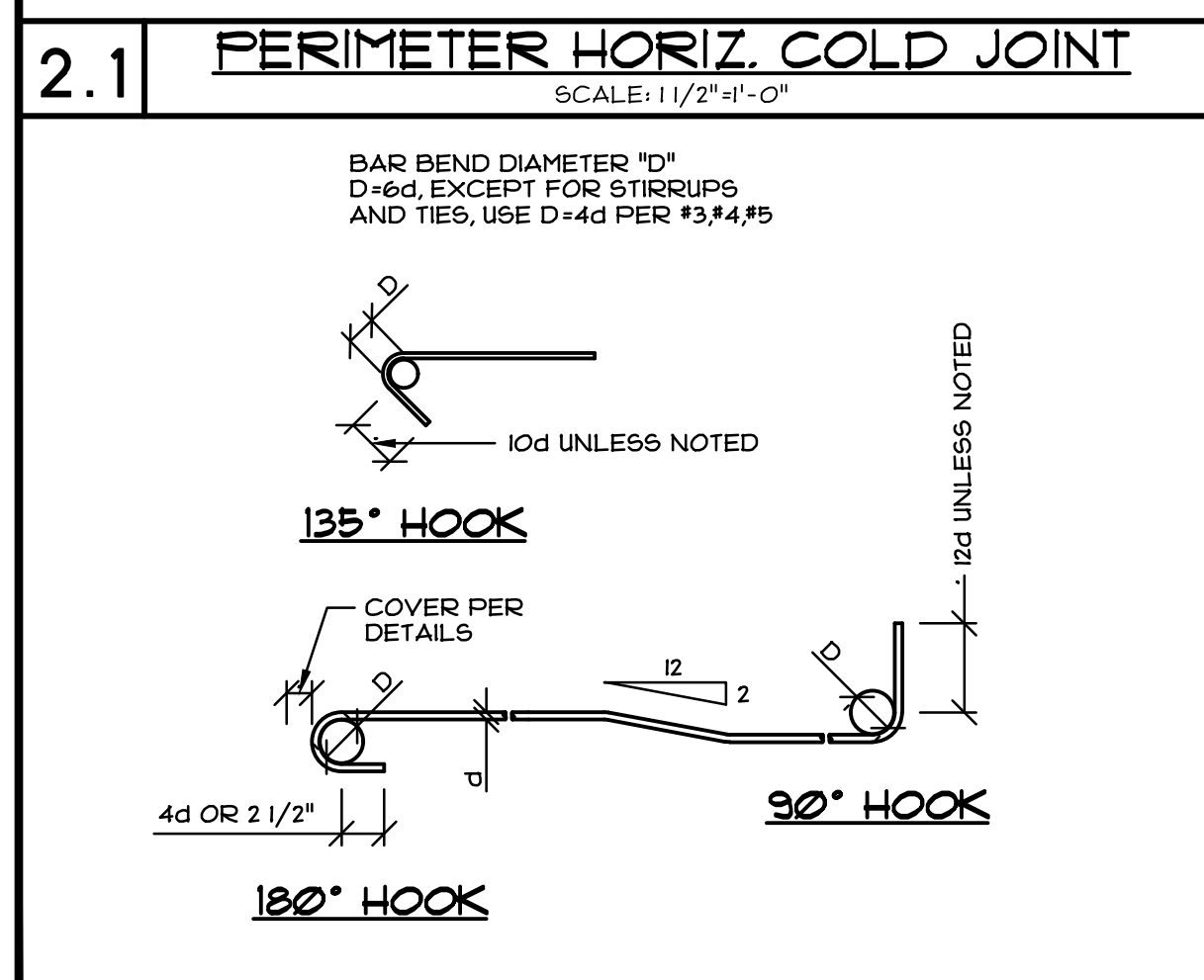
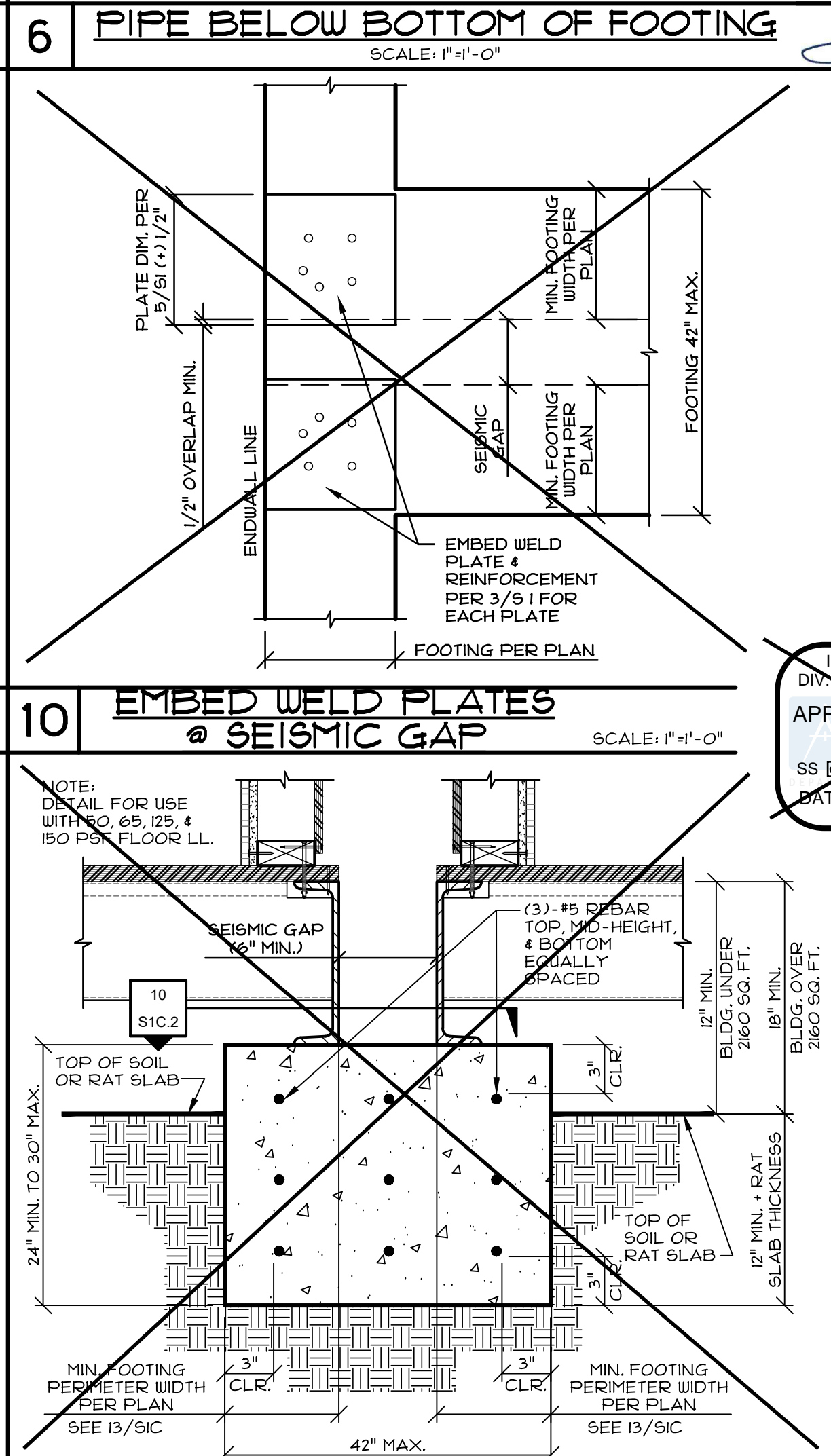
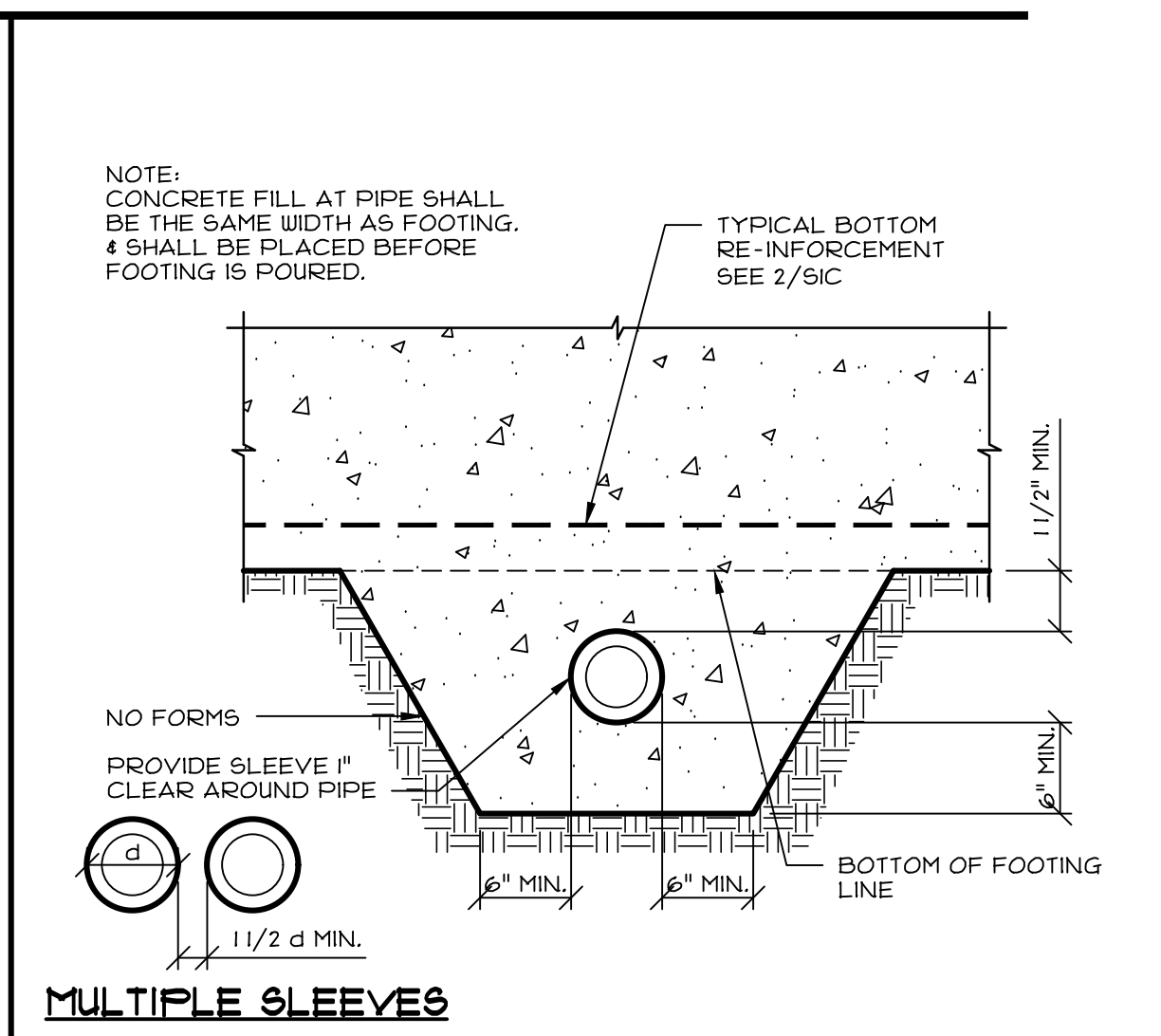
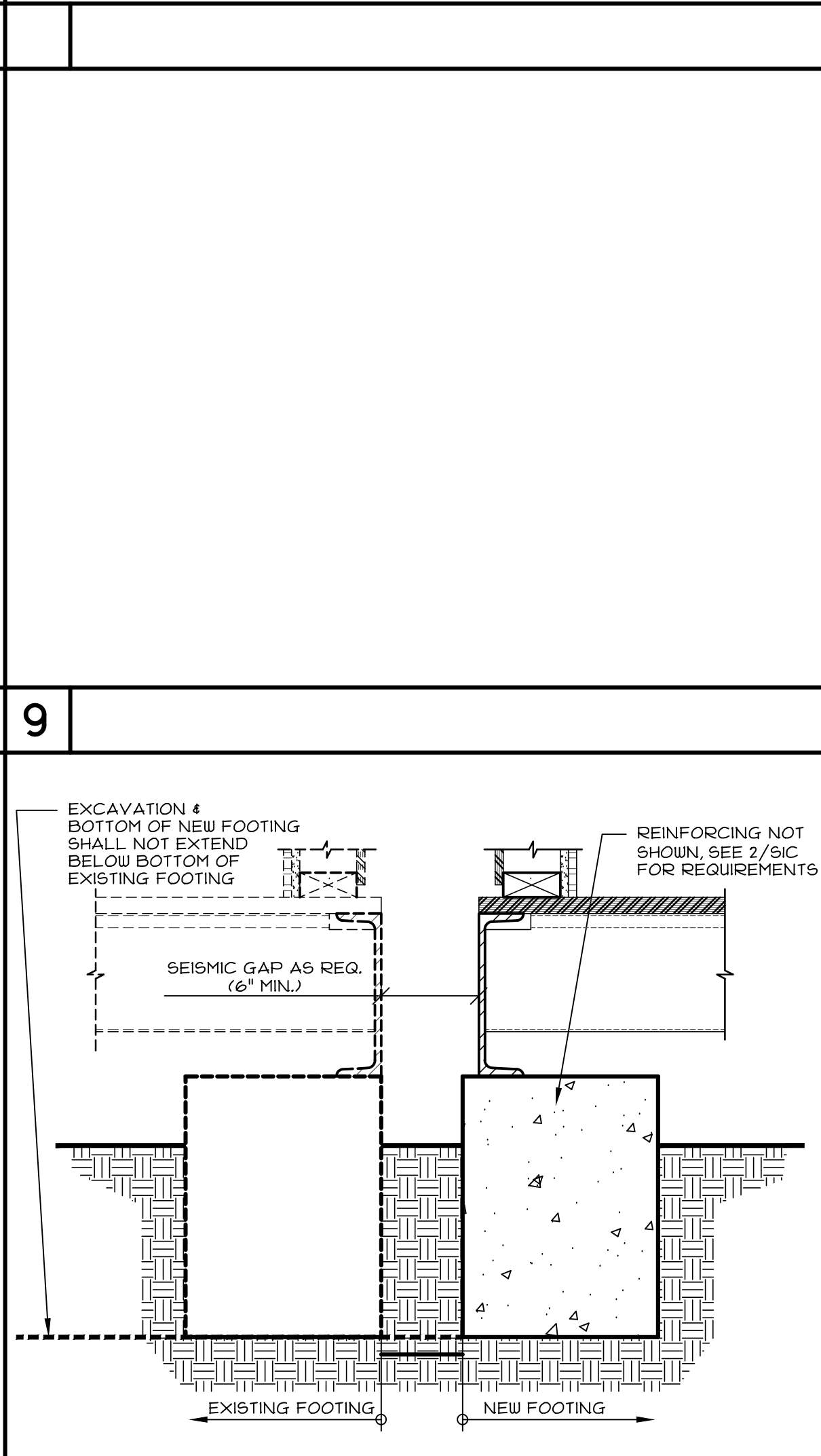
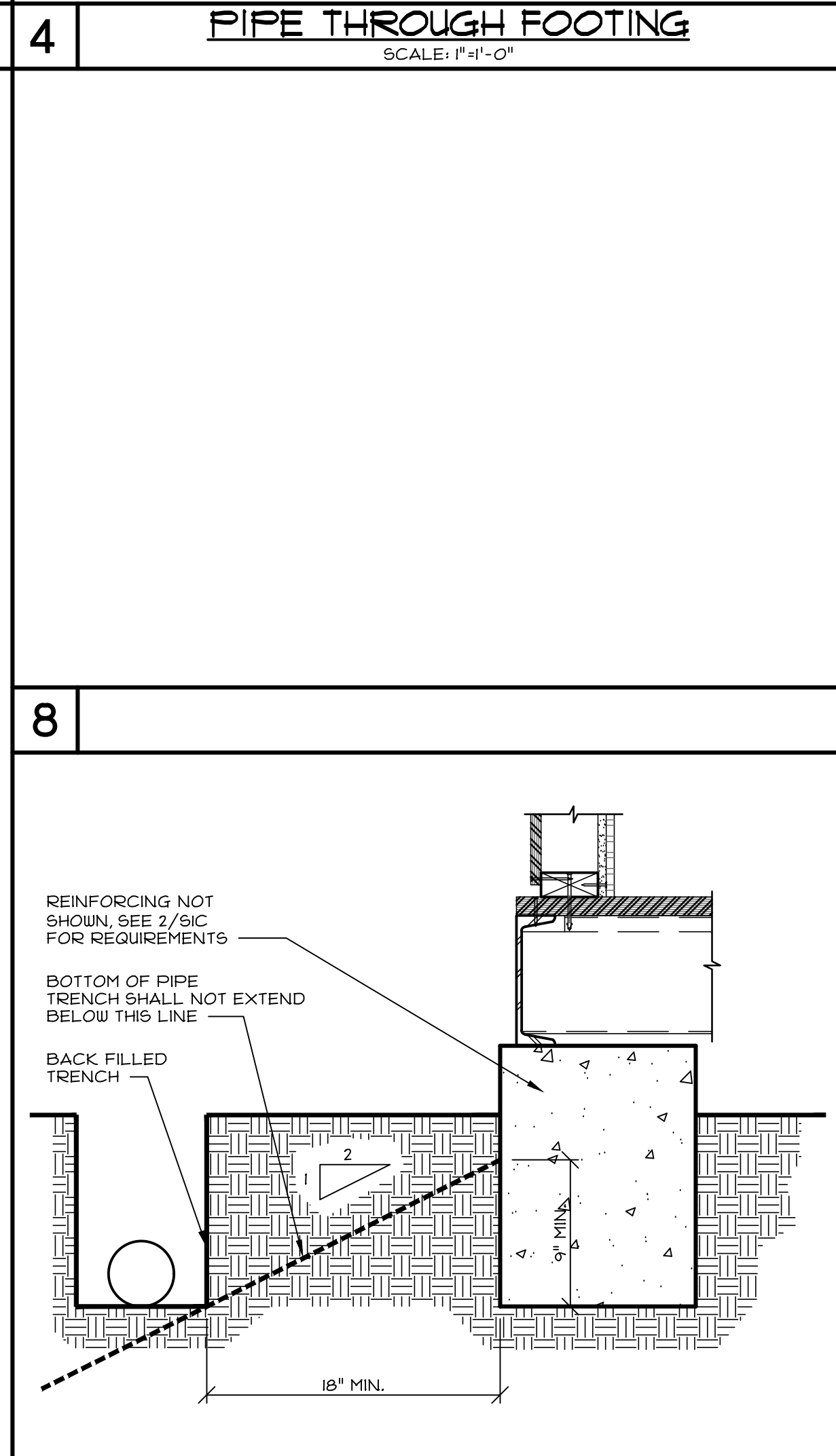
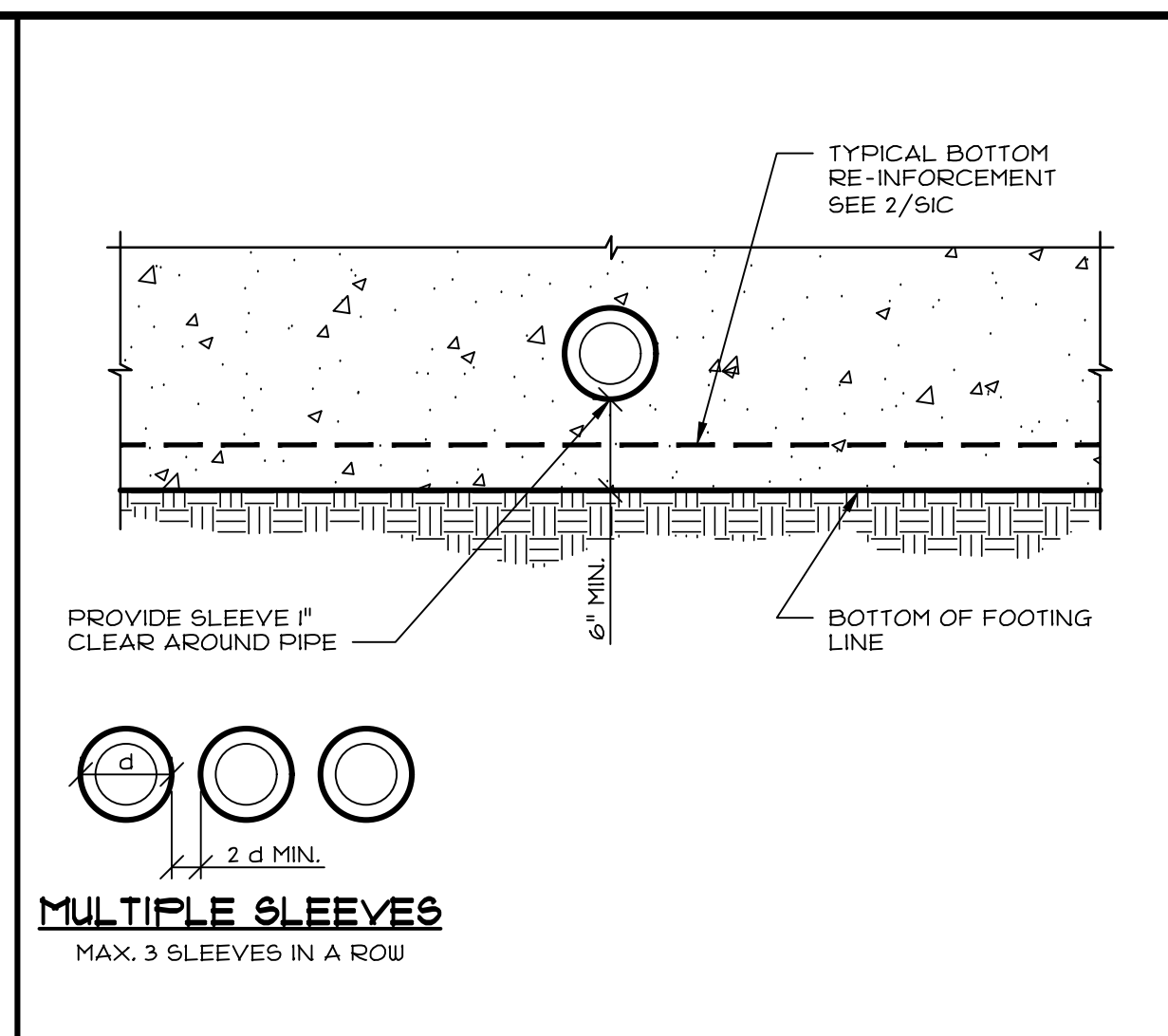
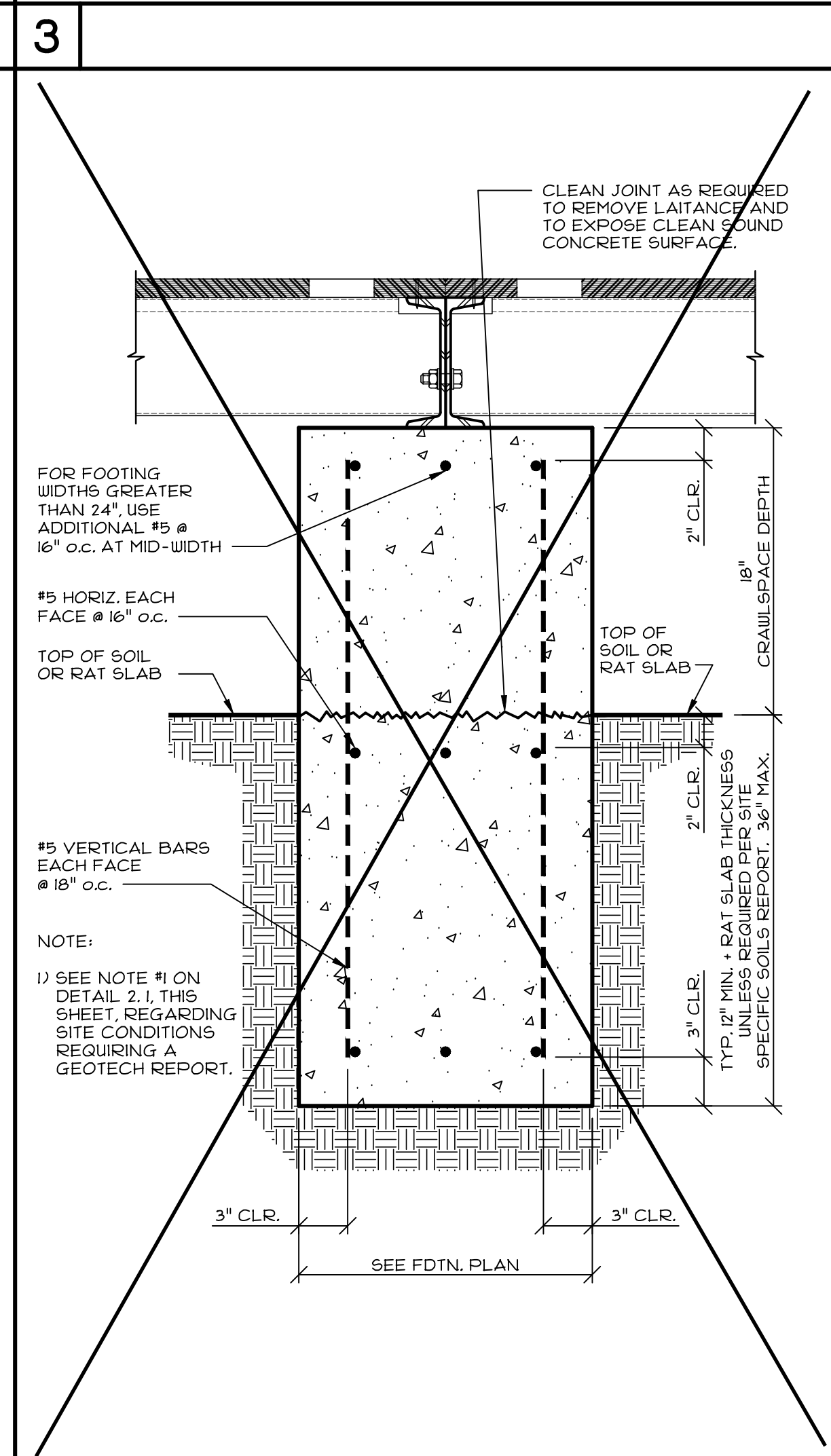
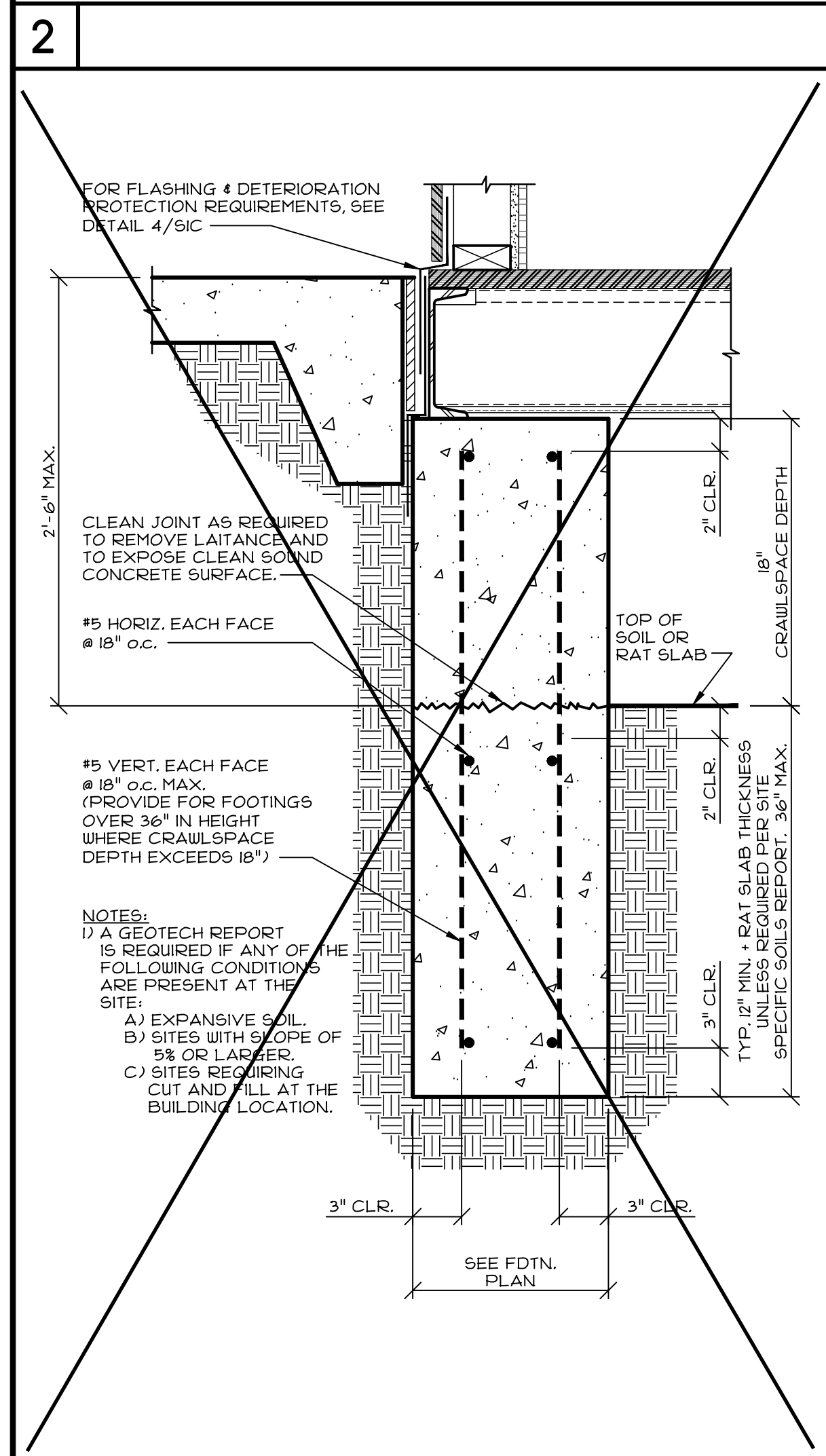
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 Code: 2022 CBC  
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**SIC.1**

24"x40" TO 120"x40" P.C.

REBID - April 14, 2024



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10/11/2023

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**ROBERTS FERRY ES**  
at  
**ROBERTS FERRY UESD**

MISCELLANEOUS  
FOOTING DETAILS  
(WOOD FLOORS)

REV / DATE:	BY:
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DRAWN BY:	
DATE:	

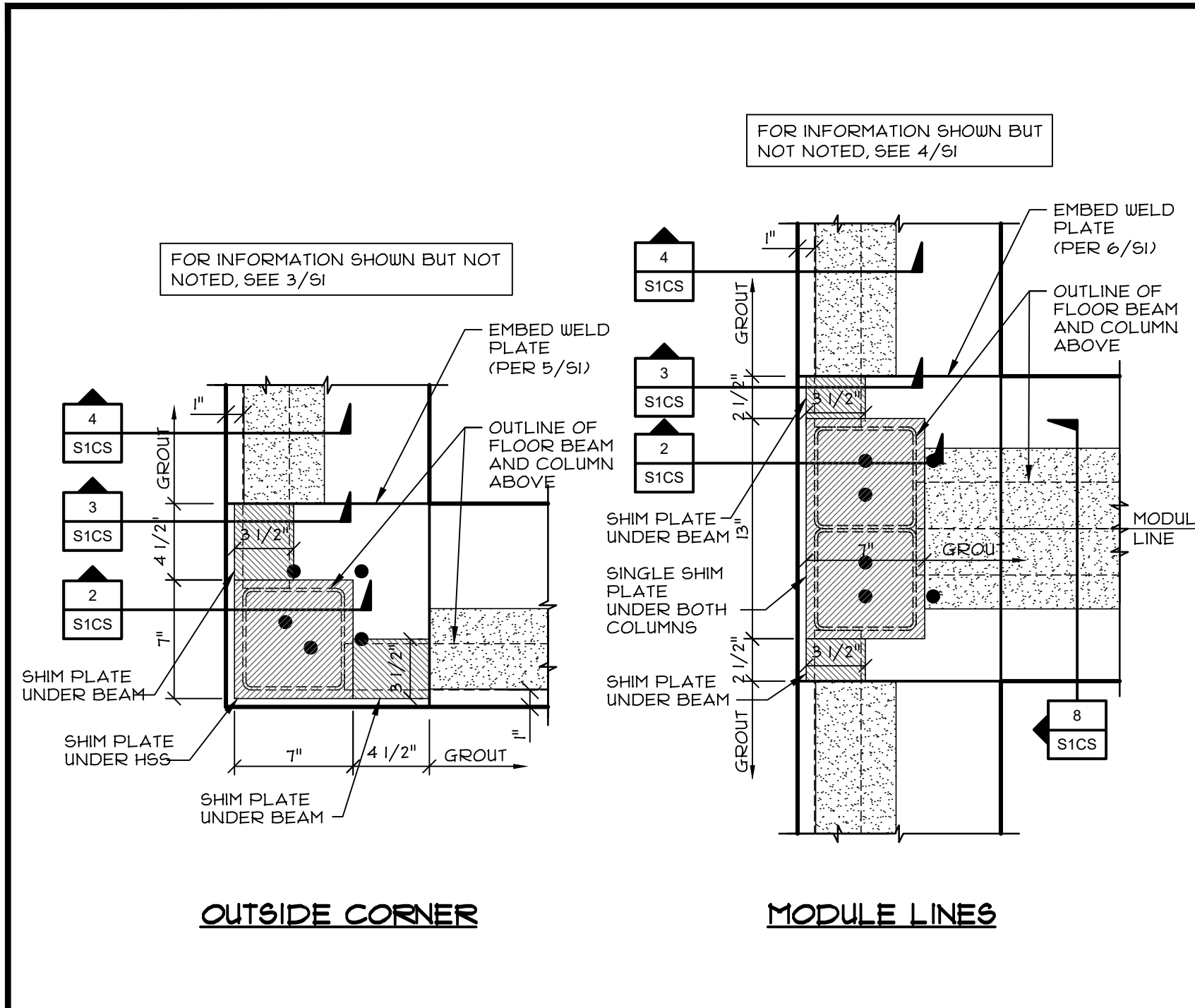
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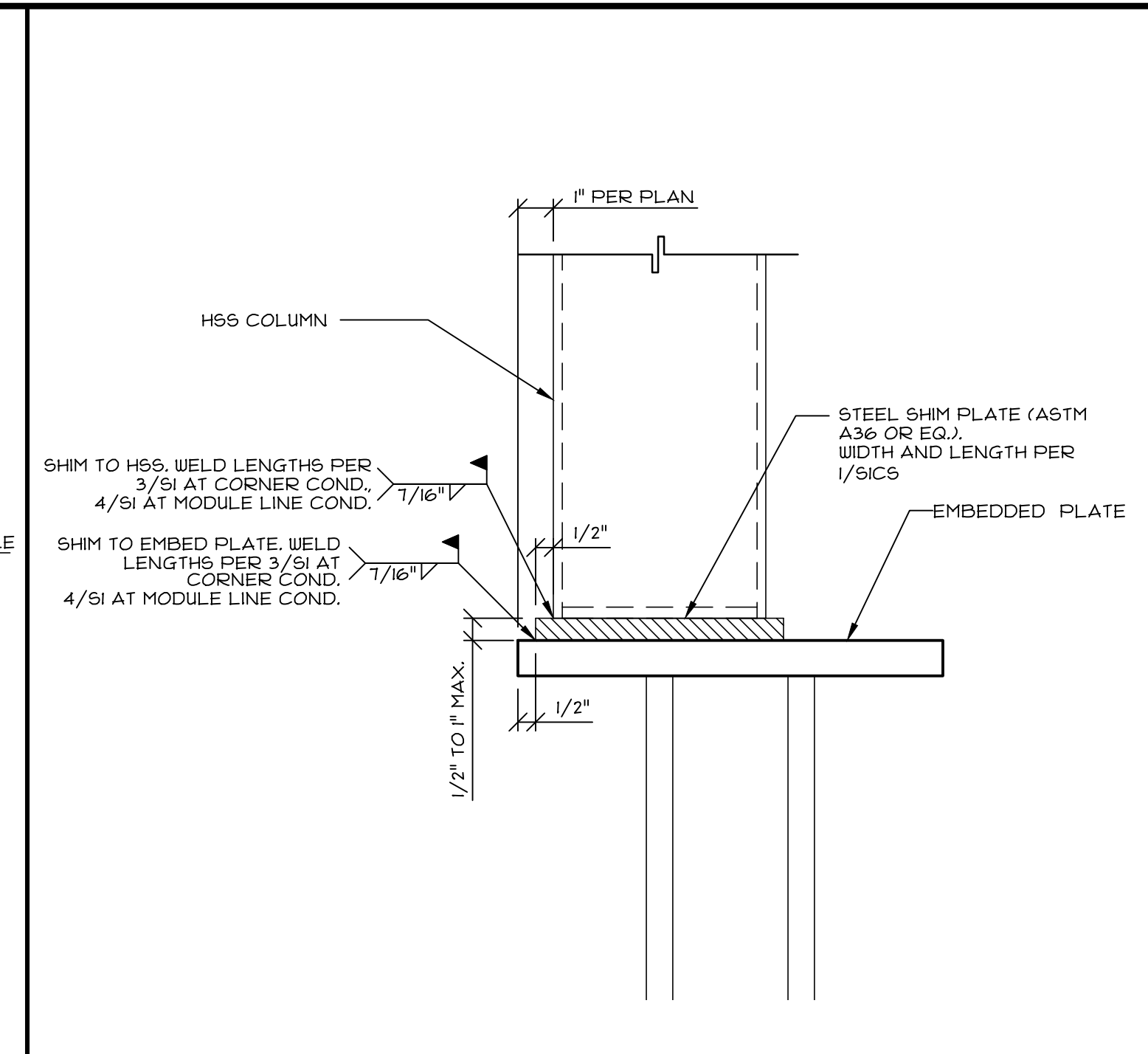
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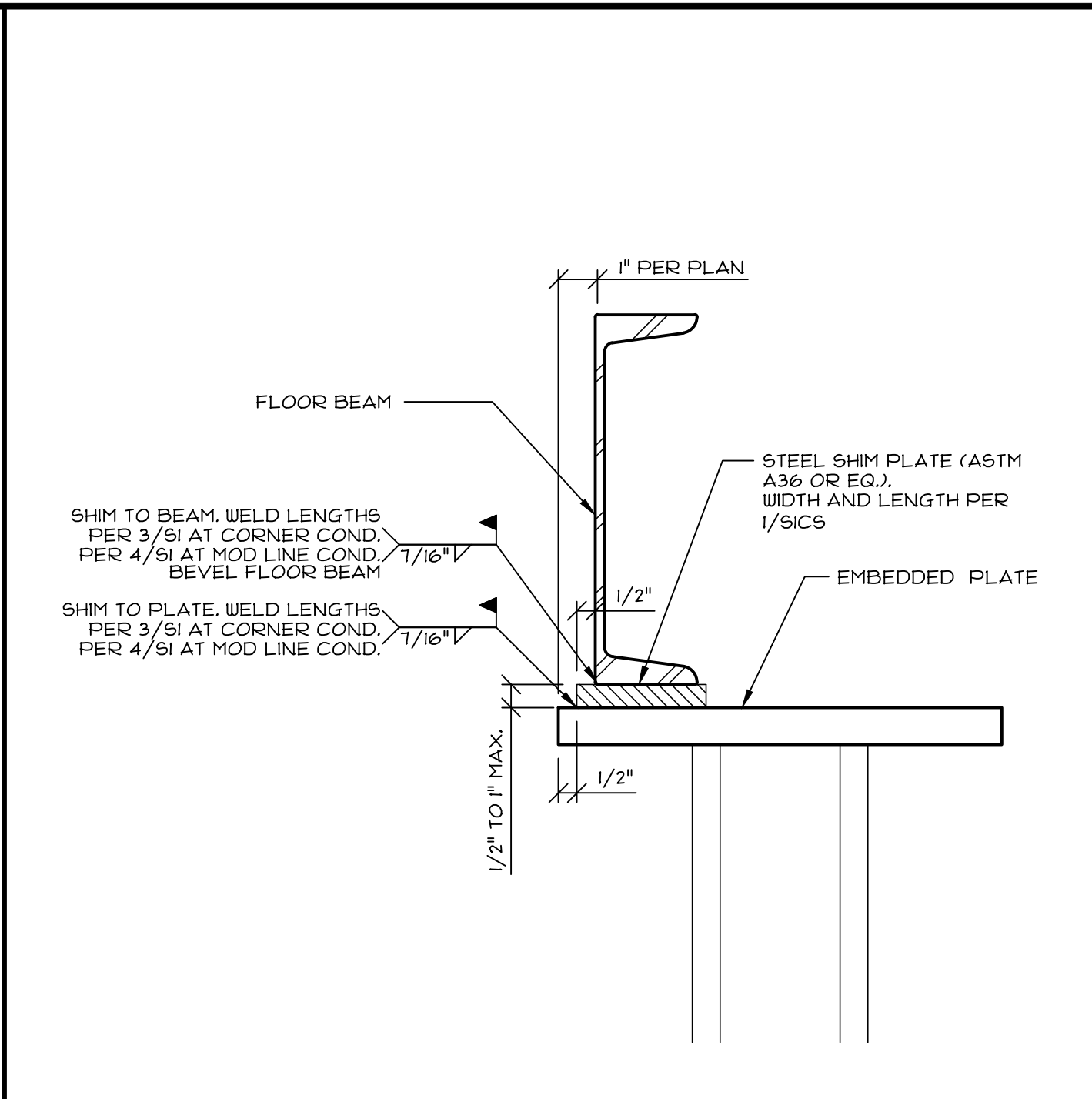
24"x40" TO 120"x40" P.C.



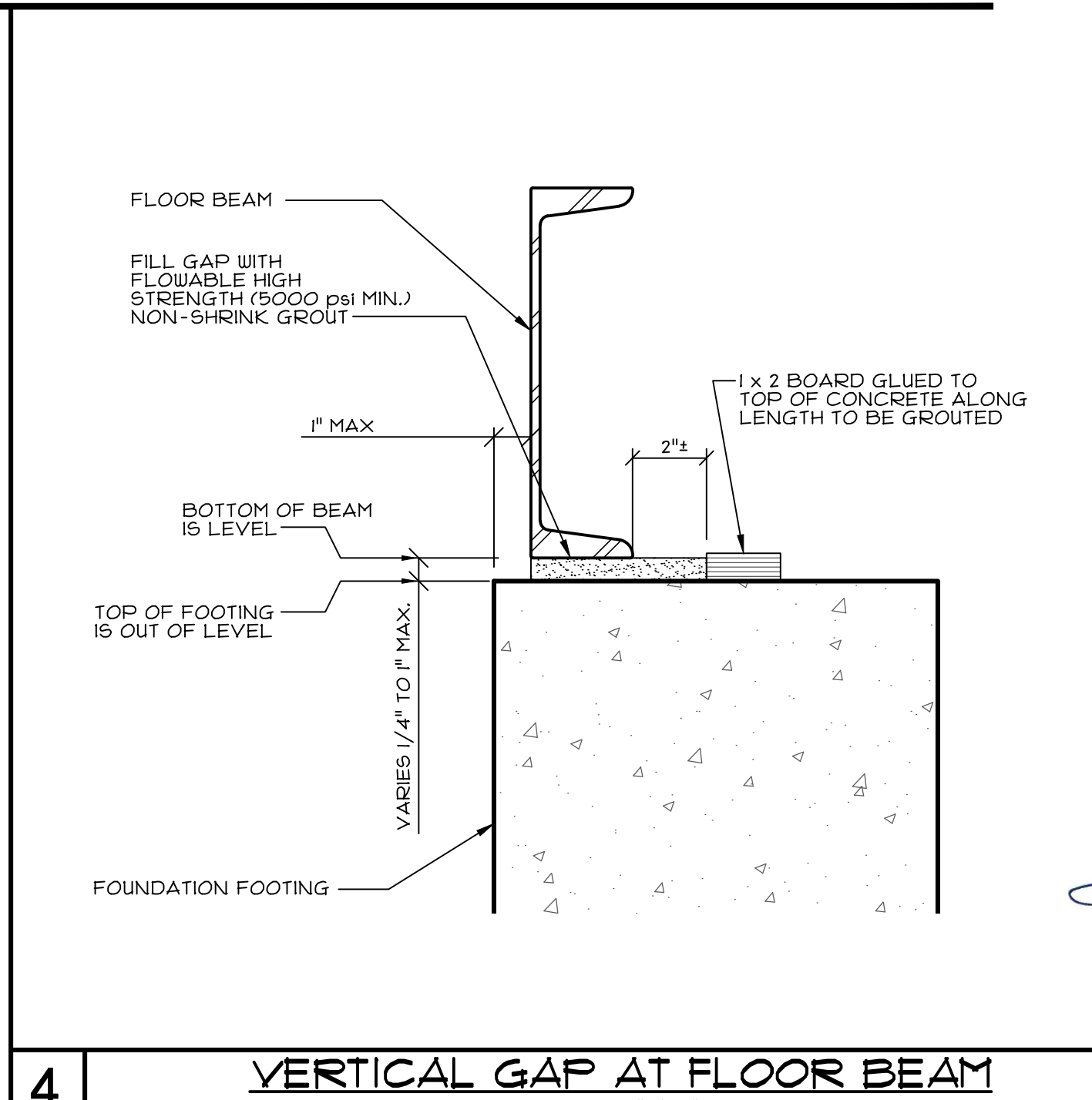
**1 PLAN VIEW - OUTBOARD SHIM PLATES**  
SCALE: 1/2"=1'-0"



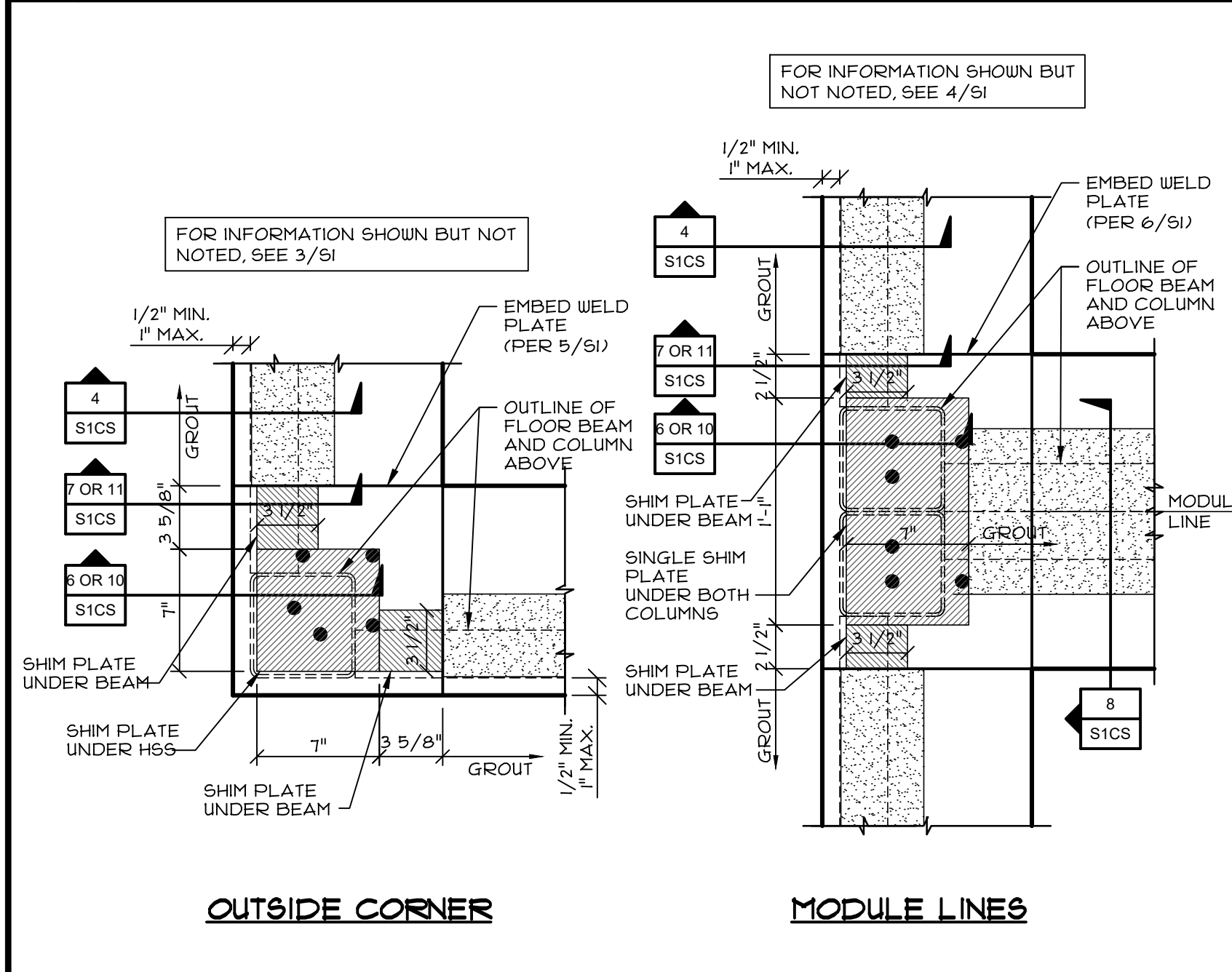
**2 VERTICAL GAP AT H6S (1/2" TO 1" MAX)**  
SCALE: 3/4"=1'-0"



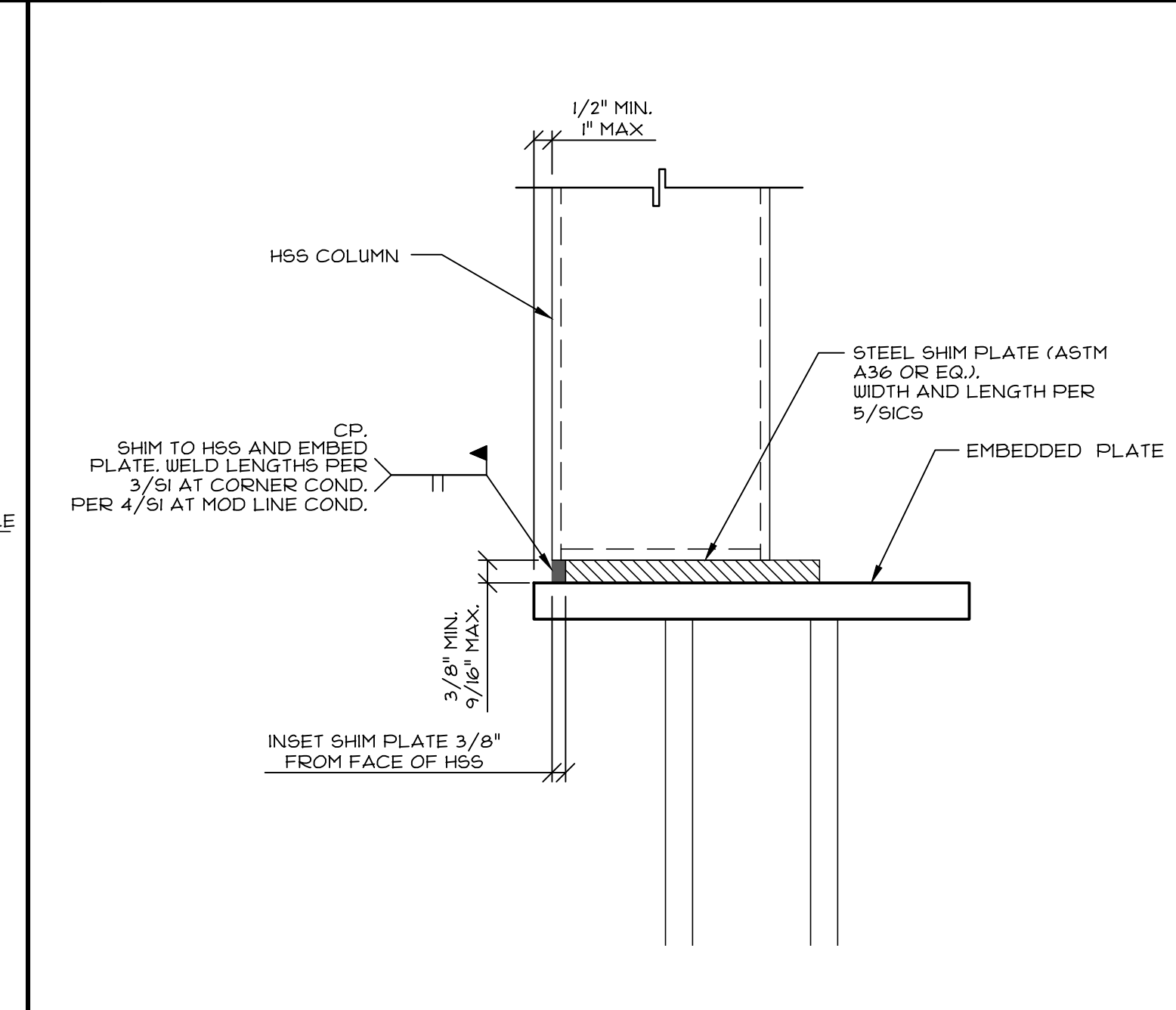
**3 VERT. GAP AT FLR BEAM (1/2" TO 1" MAX)**  
SCALE: 3/4"=1'-0"



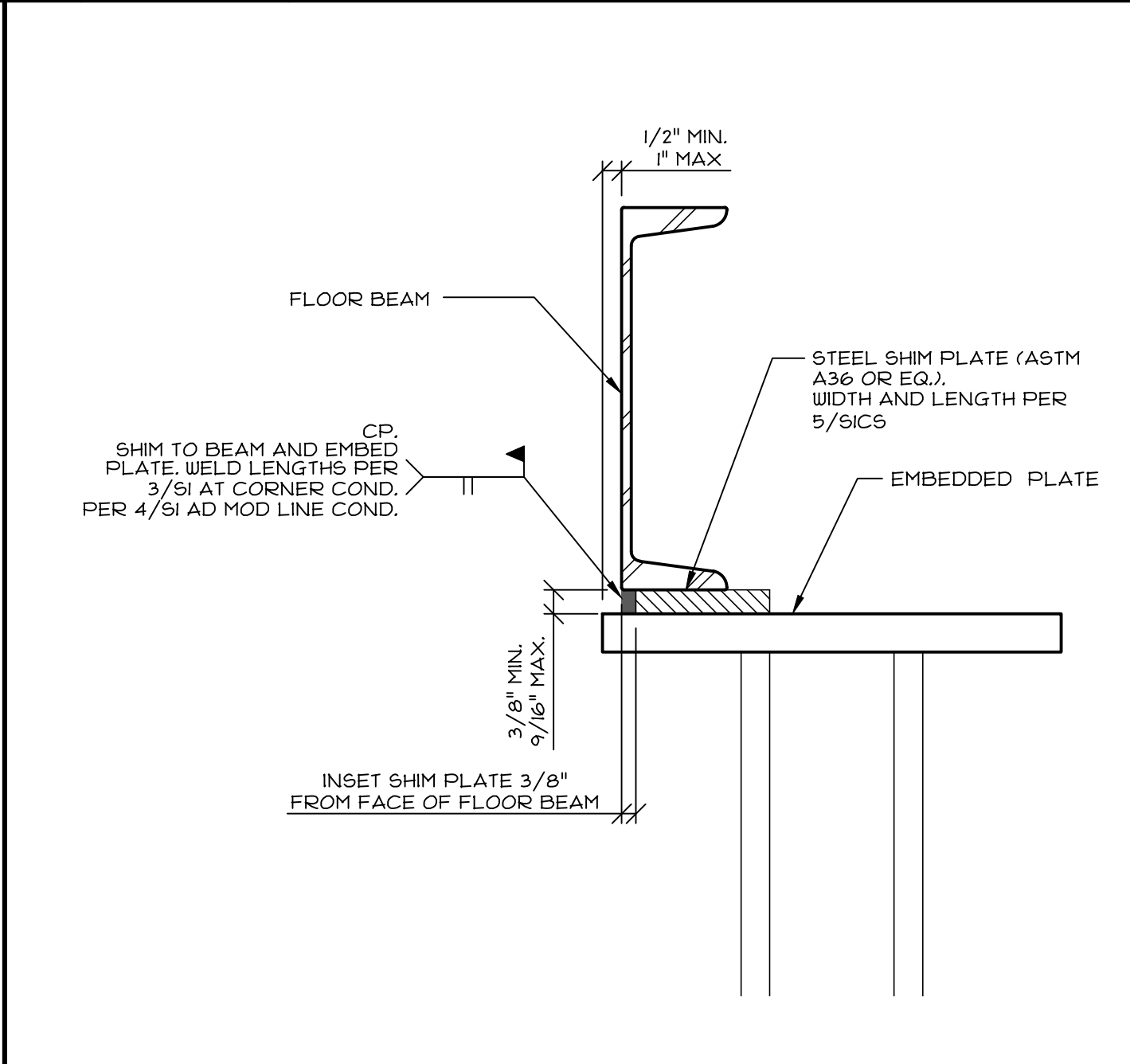
**4 VERTICAL GAP AT FLOOR BEAM**  
SCALE: 3/4"=1'-0"



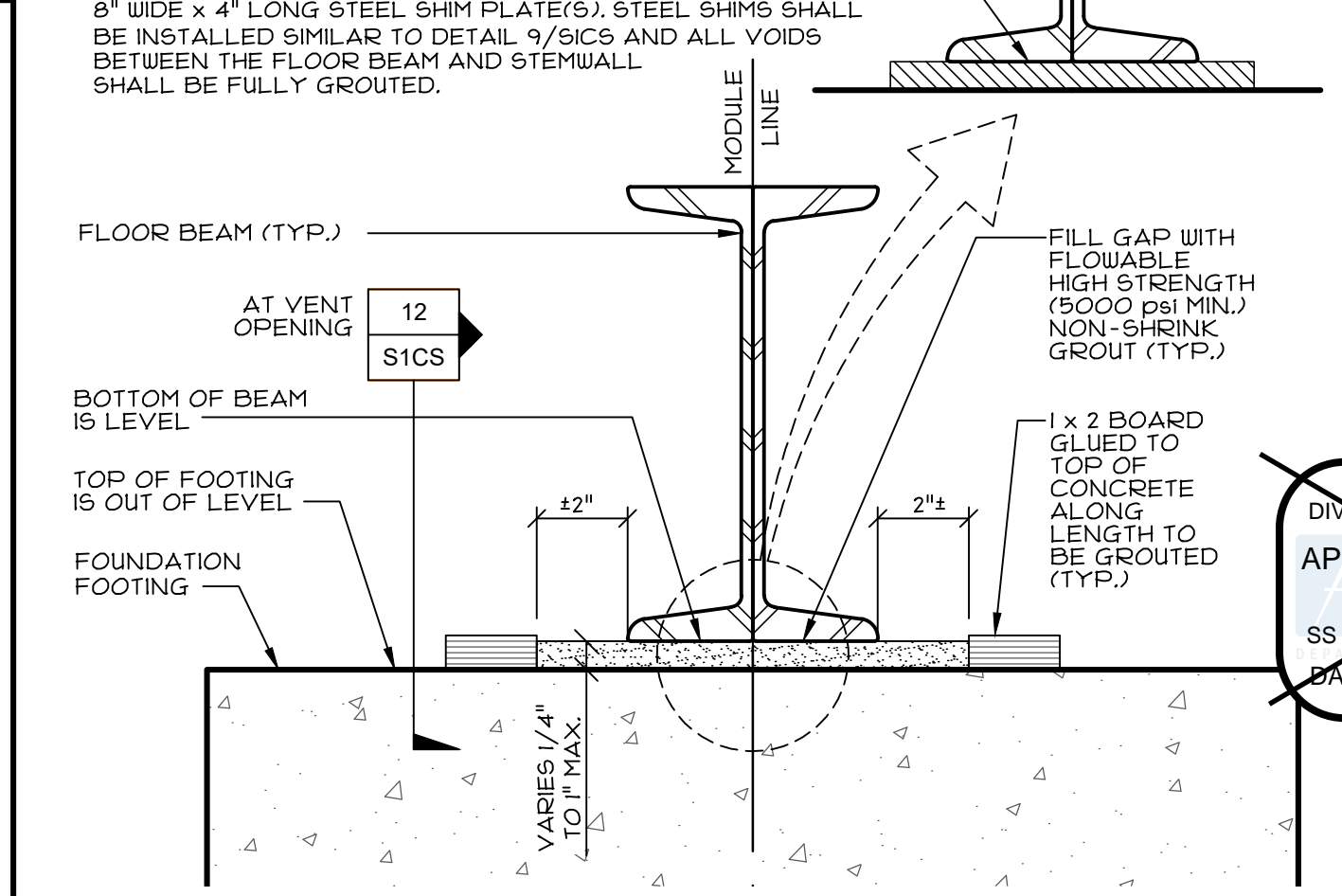
**5 PLAN VIEW - INBOARD SHIM PLATES**  
SCALE: 1/2"=1'-0"



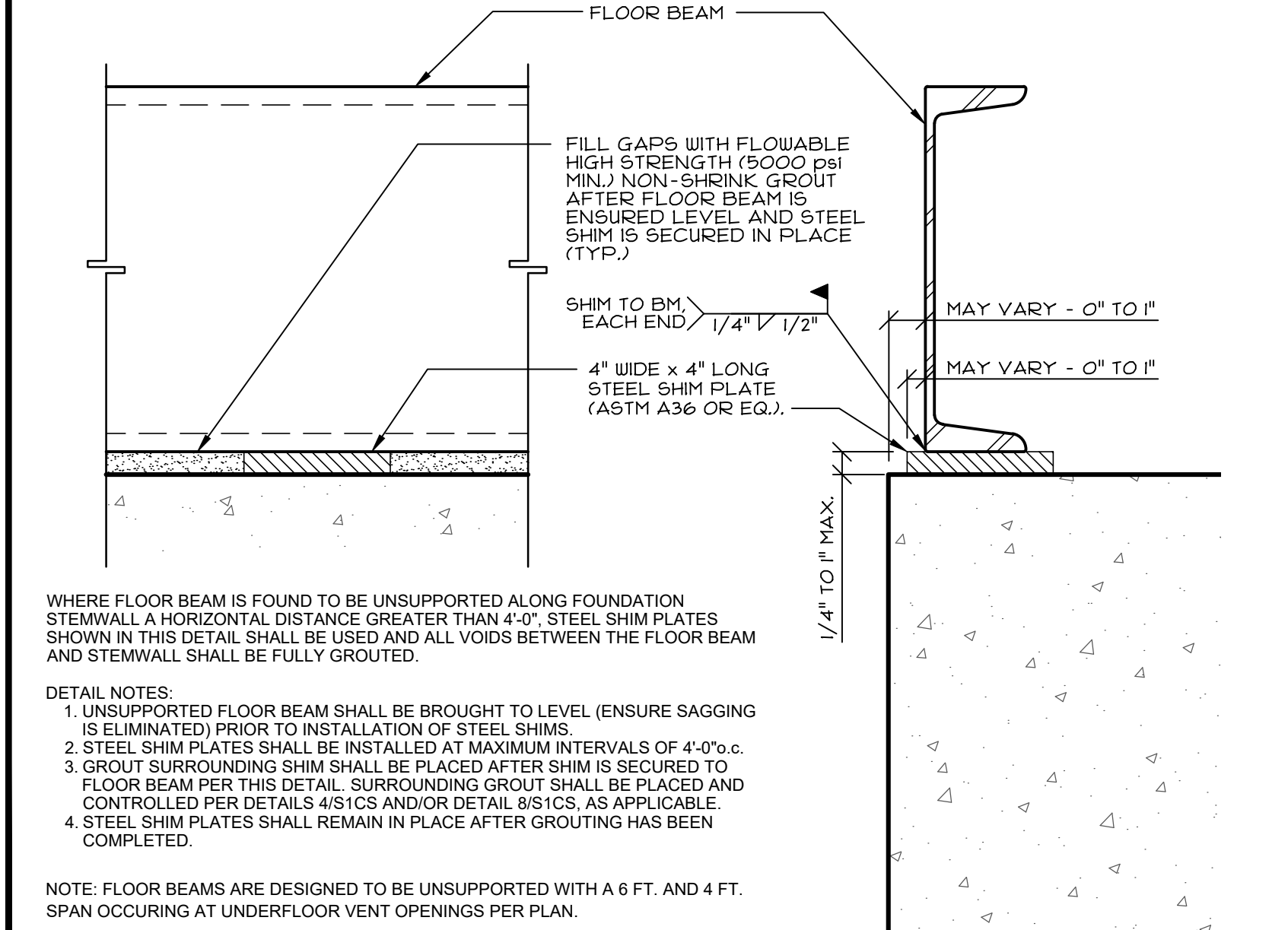
**6 VERTICAL GAP AT H6S (3/8" TO 9/16")**  
SCALE: 3/4"=1'-0"



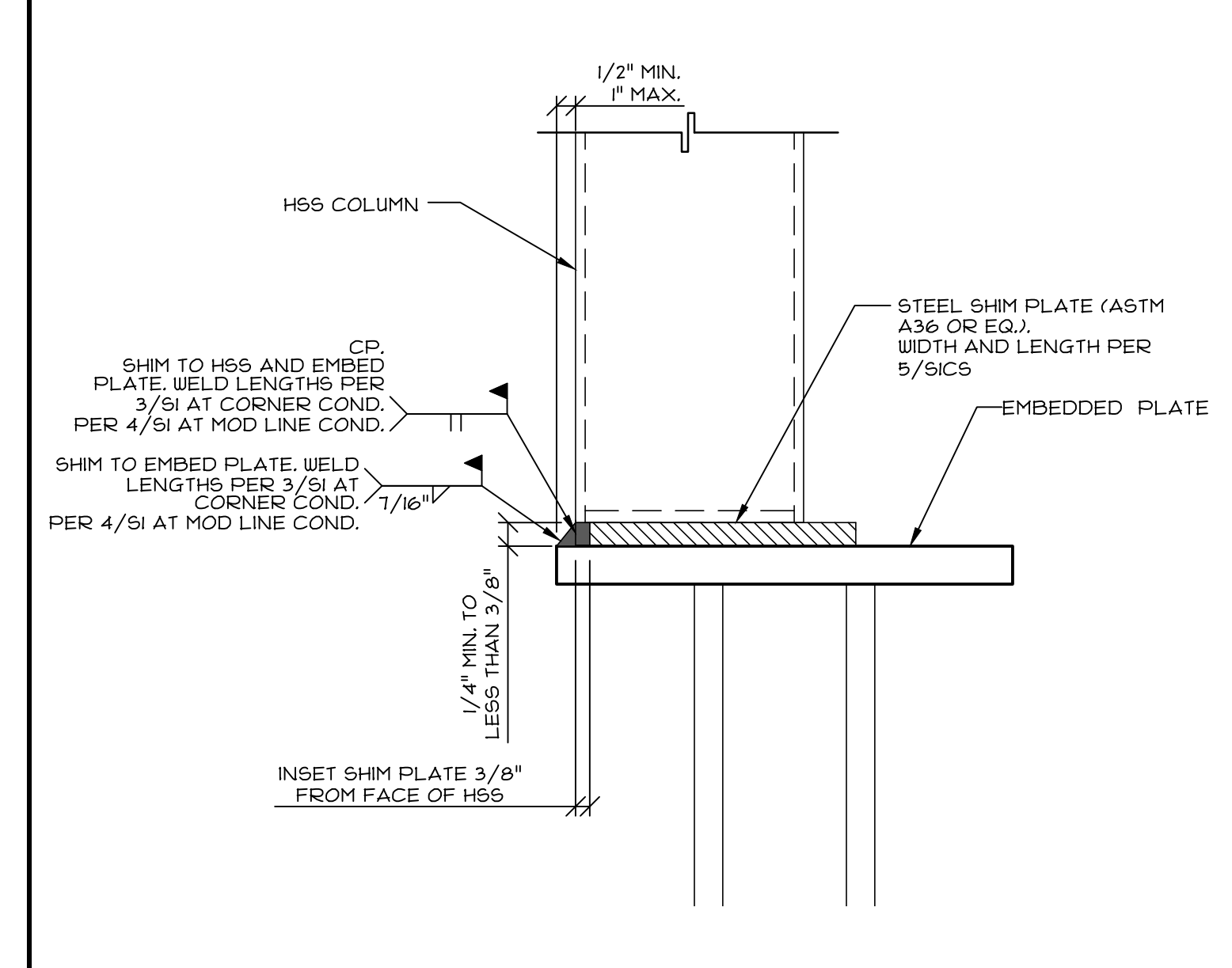
**7 VERT. GAP AT FLR BEAM (3/8" TO 9/16")**  
SCALE: 3/4"=1'-0"



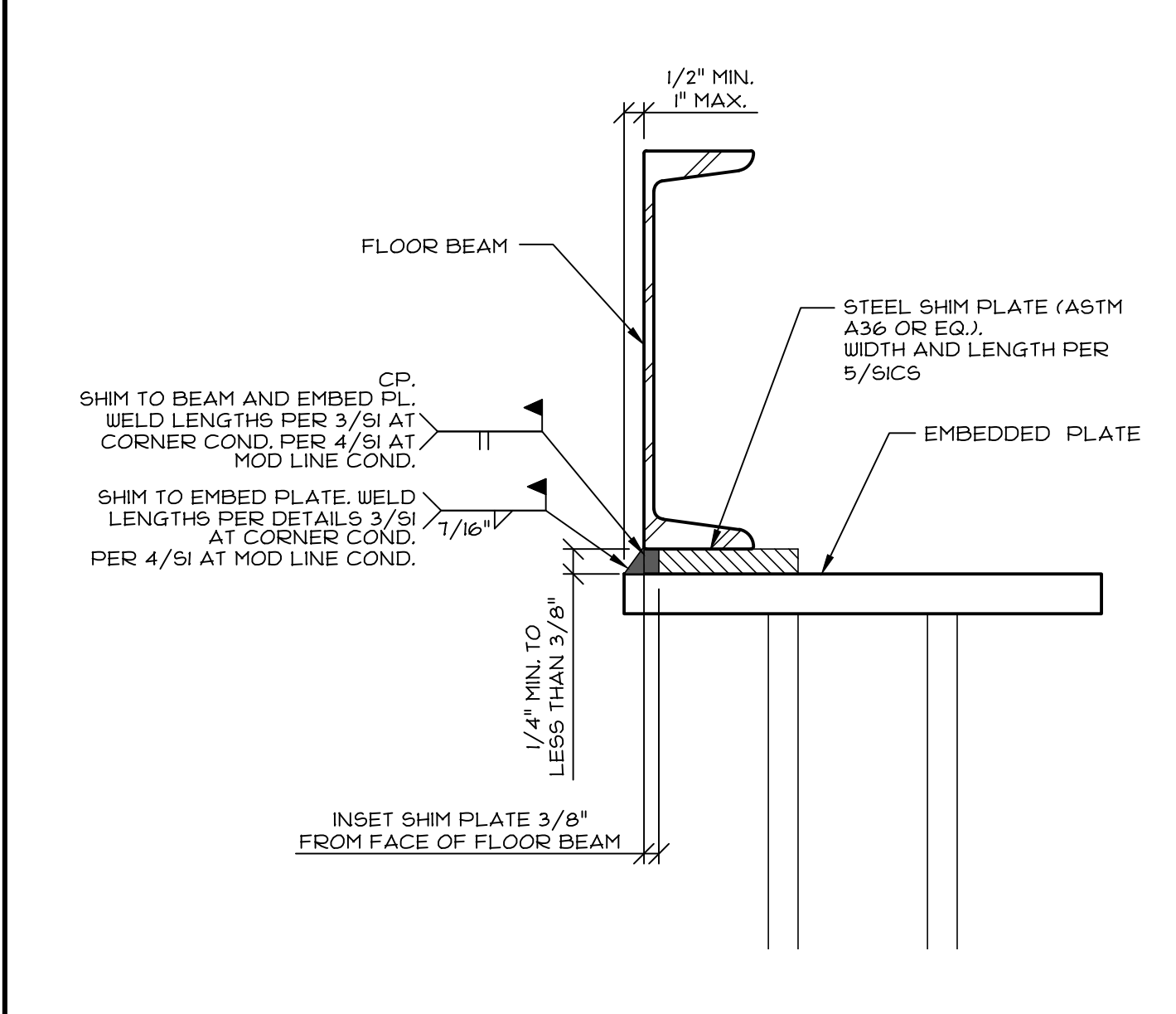
**8 VERTICAL GAP AT MODULE LINE**  
SCALE: 3/4"=1'-0"



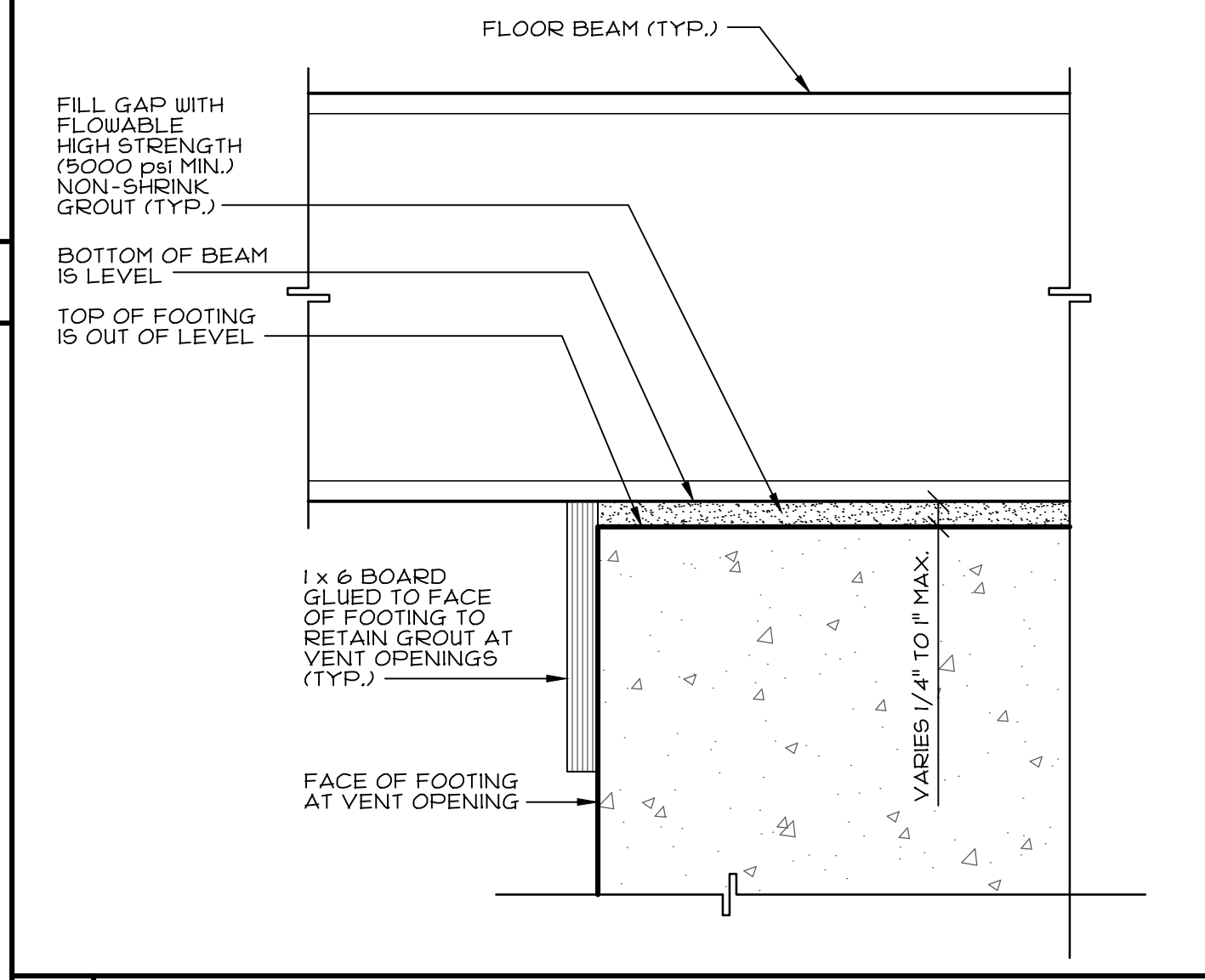
**9 SHIMS AT STEMWALL**  
SCALE: 3/4"=1'-0"



**10 VERTICAL GAP AT H6S (1/4" TO 3/8")**  
SCALE: 3/4"=1'-0"



**11 VERT. GAP AT FLOOR BEAM (1/4" TO 3/8")**  
SCALE: 3/4"=1'-0"



**12 VERTICAL GAP AT VENT OPENINGS**  
SCALE: 3/4"=1'-0"

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**ROBERTS FERRY ES**  
at  
**ROBERTS FERRY UESD**

**CONCRETE FOUNDATION SHIM DETAILS**

REV / DATE: BY:

JOB No.:  
DRAWN BY:  
DATE:

**SICS**

24"x40" TO 120"x40" P.C.

**REBID - April 14, 2024**



**FOR BUILDINGS ON WOOD FOUNDATIONS**  
NOTE: DIAPHRAGMS ARE UNBLOCKED UNLESS NOTED OTHERWISE

**SCREWS - #10 S.M.S. (AISI S400-15, SECTION F)**  
NOTE: SCREWS SHALL EXTEND THROUGH STEEL WITH A MIN. OF (3) EXPOSED THREADS.

SUBFLOORING	50 PSF	65 PSF
	6" o.c. ALL PANEL EDGES 12" o.c. FIELD	
1-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS		
BI-PITCHED/SHED ROOF	5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS	
<p>6" o.c. ALL PANEL EDGES, 12" o.c. FIELD (TYP.)</p>		
VARIABLE SLOPE ROOF	5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS	
<p>6" o.c. ALL PANEL EDGES, 12" o.c. FIELD (TYP.)</p> <p>4" o.c. EDGES, 4" o.c. BOUNDARIES, 12" o.c. FIELD (BLOCK PANEL EDGES)</p>		

**FOR BUILDINGS ON CONCRETE FOUNDATIONS**  
NOTE: DIAPHRAGMS ARE UNBLOCKED UNLESS NOTED OTHERWISE

**SCREWS - #10 S.M.S. (AISI S400-15, SECTION F)**  
NOTE: SCREWS SHALL EXTEND THROUGH STEEL WITH A MIN. OF (3) EXPOSED THREADS.

SUBFLOORING	50 PSF	65 PSF	125 PSF	150 PSF
	6" o.c. ALL PANEL EDGES 12" o.c. FIELD			
1-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS				
SUBFLOORING	50 PSF	65 PSF	125 PSF	150 PSF
	6" o.c. ALL PANEL EDGES 12" o.c. FIELD			
3/4" USG LEVEL ROCK® FLOOR TOPPING OVER 3/8" SOUND REDUCTION BOARD OVER 1/2" T&G STURD-I-FLOOR PLY SHEATHING				
BI-PITCHED/SHED ROOF	5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS			
<p>6" o.c. ALL PANEL EDGES, 12" o.c. FIELD (TYP.)</p> <p>6" o.c. EDGES, 12" o.c. FIELD (BLOCK PANEL EDGES)</p> <p><b>DIAGRAM "A"</b></p>				
VARIABLE SLOPE ROOF	5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS			
<p>6" o.c. ALL PANEL EDGES, 12" o.c. FIELD (TYP.)</p> <p>4" o.c. EDGES, 4" o.c. BOUNDARIES, 12" o.c. FIELD (BLOCK PANEL EDGES)</p>				

**FOR BUILDINGS ON WOOD FOUNDATIONS**  
NOTE: DIAPHRAGMS ARE UNBLOCKED UNLESS NOTED OTHERWISE

**E.T.# F. - AKN 144 x 1 3/4" PIN (UES ER 335)**

SUBFLOORING	50 PSF	65 PSF
	6" o.c. ALL PANEL EDGES, 6" o.c. BOUNDARIES, 12" o.c. FIELD (TYP.)	
1-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS		
ROOF	5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS	
<p>6" o.c. ALL PANEL EDGES, 6" o.c. BOUNDARIES, 12" o.c. FIELD (TYP.)</p>		

**FOR BUILDINGS ON CONCRETE FOUNDATIONS**  
NOTE: DIAPHRAGMS ARE UNBLOCKED UNLESS NOTED OTHERWISE

**E.T.# F. - AKN 144 x 1 3/4" PIN (UES ER 335)**

SUBFLOORING	50 PSF	65 PSF	125 PSF	150 PSF
	6" o.c. ALL PANEL EDGES, 6" o.c. BOUNDARIES, 12" o.c. FIELD (TYP.)			
1-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS				
SUBFLOORING	50 PSF	65 PSF	125 PSF	150 PSF
	6" o.c. ALL PANEL EDGES, 6" o.c. BOUNDARIES, 12" o.c. FIELD (TYP.)			
3/4" USG LEVEL ROCK® FLOOR TOPPING OVER 3/8" SOUND REDUCTION BOARD OVER 1/2" T&G STURD-I-FLOOR PLY SHEATHING				
ROOF	5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS			
<p>6" o.c. ALL PANEL EDGES, 6" o.c. BOUNDARIES, 12" o.c. FIELD (TYP.)</p>				

- WALL TO FRAME FASTENING:**
- WALL PANEL TOP PLATE TO PERIMETER ROOF BEAM: (1) 1/4" x 2 1/2" LAG SCREWS FROM ROOF BEAM BOTTL. FLANGE INTO TOP PLATE @ 15" o.c. MAX.
  - WALL PANEL BOTTOM PLATE TO PERIMETER FLOOR BEAM: 1/4" x 20 TEKs/4 SCREWS @ 24" o.c. FROM BOTTOM PLATE INTO FLOOR BEAM TOP FLANGE OR EACH FLOOR JOIST TOP FLANGE.
  - WALL PANEL SIDE STUDS TO H65 CORNER COLUMNS: #12-24 x 2 1/2" S.D.S. @ 16" o.c. FROM SIDE STUD INTO STEEL CORNER COLUMN.
  - TOP AND BOTTOM PLATE TO STUDS AND KING STUDS: (3) J35 x 3 1/4" LONG MACHINE NAIL.
  - DOUBLE STUDS, TRIMMERS, SILL & ANCHORS: J35 x 3 1/4" LONG MACHINE NAILS @ 8" o.c.
  - CRIPPLES, TRIMMERS END NAILED: (3) J35 x 3 1/4" LONG MACHINE NAIL EA. END TO PLATES AND SILLS.
  - CRIPPLES, TRIMMERS: (3) J35 x 3 1/4" LONG MACHINE NAIL NAILED TO HEADERS.
  - ALL HANGERS, STRAPS, CLIPS, ETC.: NAILED AS PER MANUFACTURER'S SPECS.
  - FASTENING CONDITIONS NOT ADDRESSED ABOVE: TABLE 2304.10.2, 2022 C.B.C.

- SHEATHING NAILING & NOTES:**
- DO NOT CRUSH SHEATHING FACE PLY (OUTER VENEER LAYER) BY OVER DRIVING SCREWS, MACHINE, OR HAND NAILS.
  - UNDER DRIVEN NAILS SHALL BE CORRECTED BY HAND SET.
  - REMOVE AND REPLACE NAILS DRIVEN THAT MISS FRAMING OR SUPPORT.
  - ALL CORRECTIVE NAILING SHALL BE DONE BY HAND NAILING.
  - H.D.G. = HOT DIPPED GALVANIZED WITH MINIMUM COATING OF 1 OZ PER SQ. FT. OF ZINC, OR MECHANICALLY GALVANIZED PER ASTM F-1667.
  - FOR BLOCKED DIAPHRAGMS, BLOCK PANEL EDGES PER 11/54.1.
  - MINIMUM SHEATHING PANEL WIDTH SHALL BE 24".

<b>EXTERIOR WALL SIDING &amp; UNDERLAYMENT</b>	
EXTERIOR SIDING	INTO WOOD STUDS;
UNDERLAYMENT, PLYWOOD OR OSB SHEATHING	J31 x 2 1/2" @ 6" o.c. PANEL EDGES, 12" o.c. IN FIELD. (H.D.G. OR MECH. GALV. NAILS, PER ASTM F-1667).
	INTO STEEL COLUMNS;
	#12-24 x 2" S.D.S. @ 24" o.c.
<b>GYP. WALLBOARD</b>	
1/2" GYP. BOARD, INSTALLED PARALLEL OR PERPENDICULAR TO 2x4, 2x6, OR 2x8 STUDS.	FASTENING OPTIONS: J21 x 1 1/2" COATED NAILS @ 8" o.c. EDGES, 8" o.c. IN FIELD. #6 x 1-1/4" COARSE THREAD, BUGLE HEAD SCREWS @ 8" o.c. EDGES, 8" o.c. IN FIELD. "PREST-ON" INSTA-BACK, DRYWALL SUPPORTING CLIPS INSTALLED IN COMPLIANCE WITH ICC ESR-1812. SEE DETAIL I, THIS SHEET.
<b>OVERHANG SOFFIT</b>	
1/2" APA RATED SHEATHING	#8 x 1" S.M.S. @ 6" o.c. EDGES, 12" o.c. IN FIELD (PRE-PUNCHED HOLES IN STEEL)

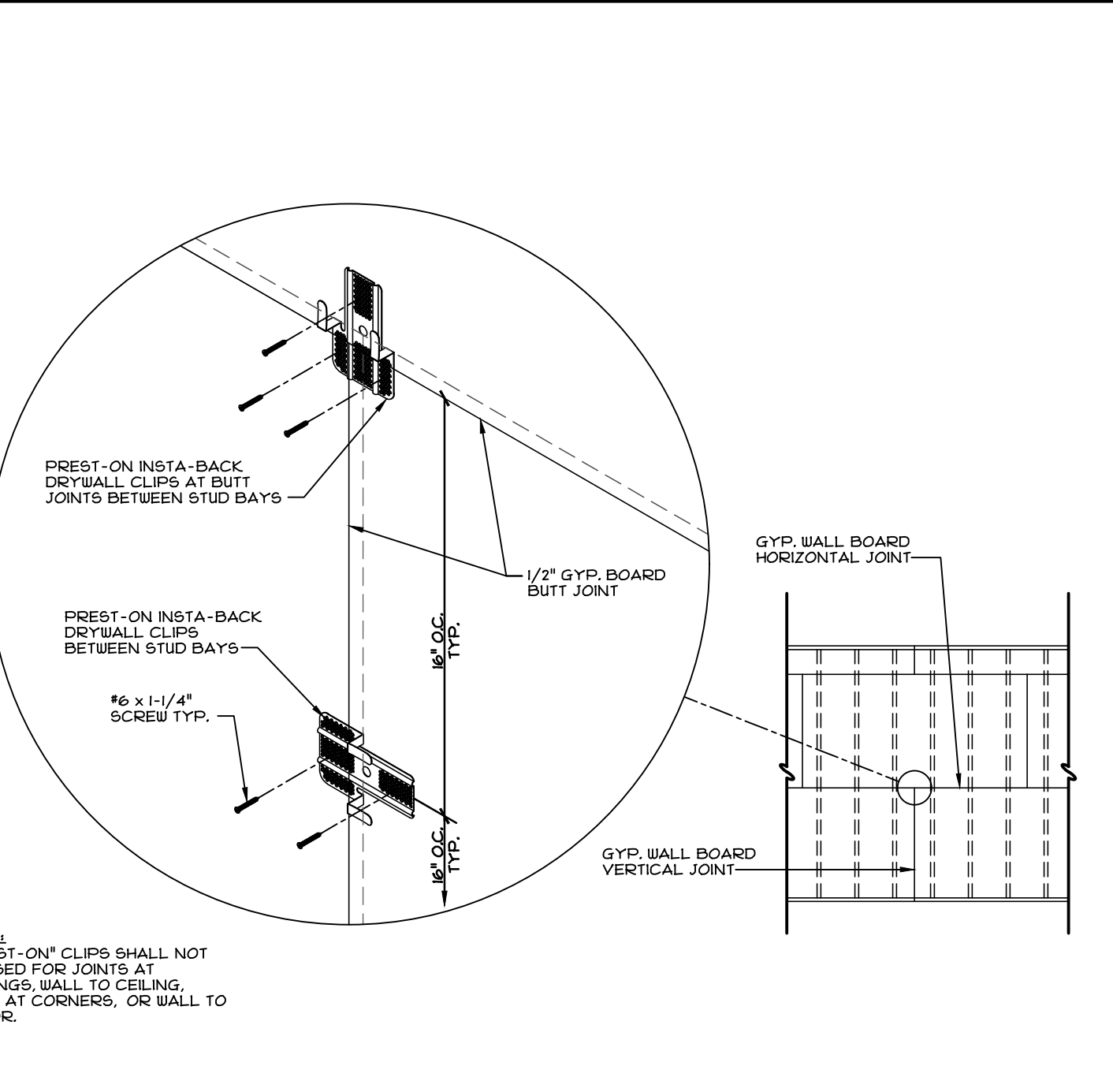
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1	"PREST-ON" INSTA-BACK DRYWALL CLIPS SCALE: NTS
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ROBERTS FERRY ES  
at  
ROBERTS FERRY UESD

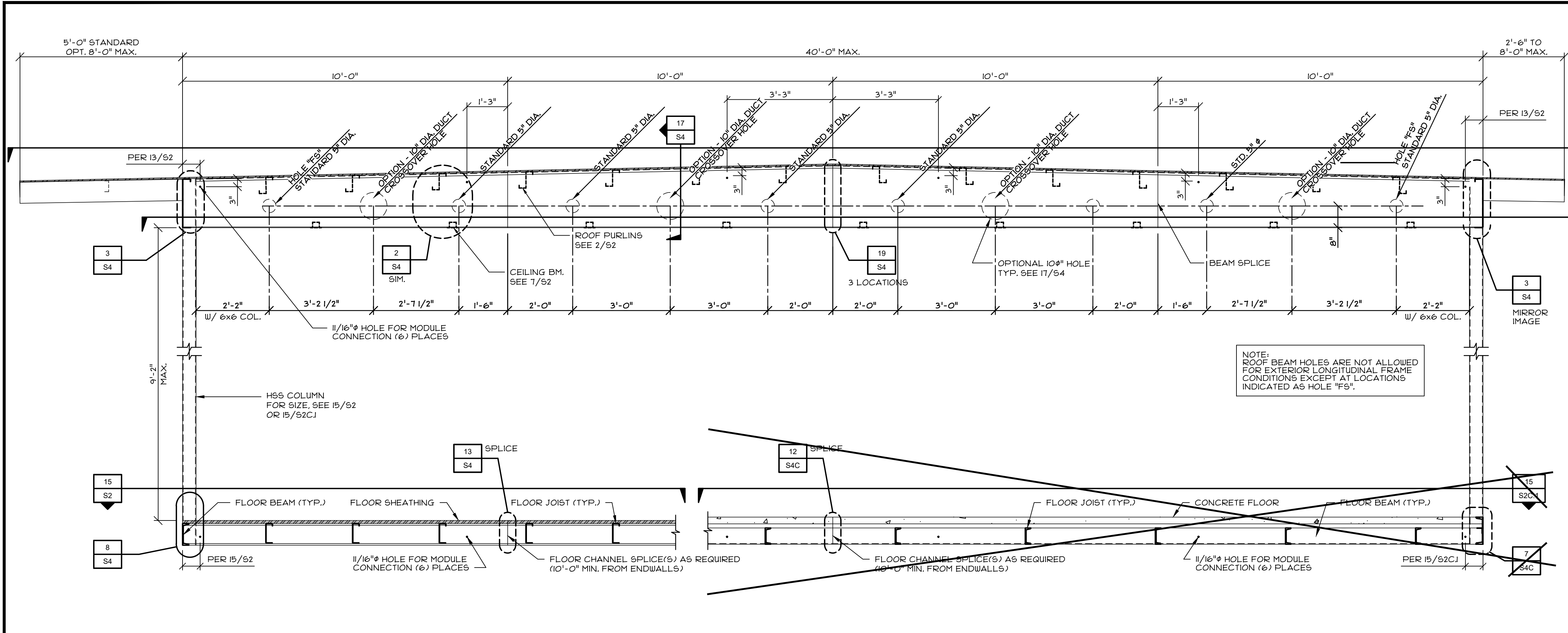
FASTENING SCHEDULE & NOTES

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

S3FA

REBID - April 14, 2024

24x40 TO 120x40" P.C.



1 TYPICAL LONGITUDINAL FRAME SECTION - BI-PITCH ROOF  
SCALE: 1/2"=1'-0"

SHEET REFERENCES		
WHERE DETAIL "A4R" IS CALLED OUT.		
STUD SIZE	HSS 6x6	HSS FIRE BARRIER
1x6	A4R	N/A
2x6	A4JR	A4JR
2x8	A4S	A4S

NOTE:  
1) SEE SHEET S3FA FOR NAILING SCHEDULE.  
2) SEE 18/S4.1 FOR WALL STUD BORING/NOTCH LIMITATIONS.

2 SHEET NOTES

~~AT 2x4 WALLS (6'-0" MAX OPENINGS)~~

~~AT 2x4 WALLS (8'-0" MAX OPENINGS)~~

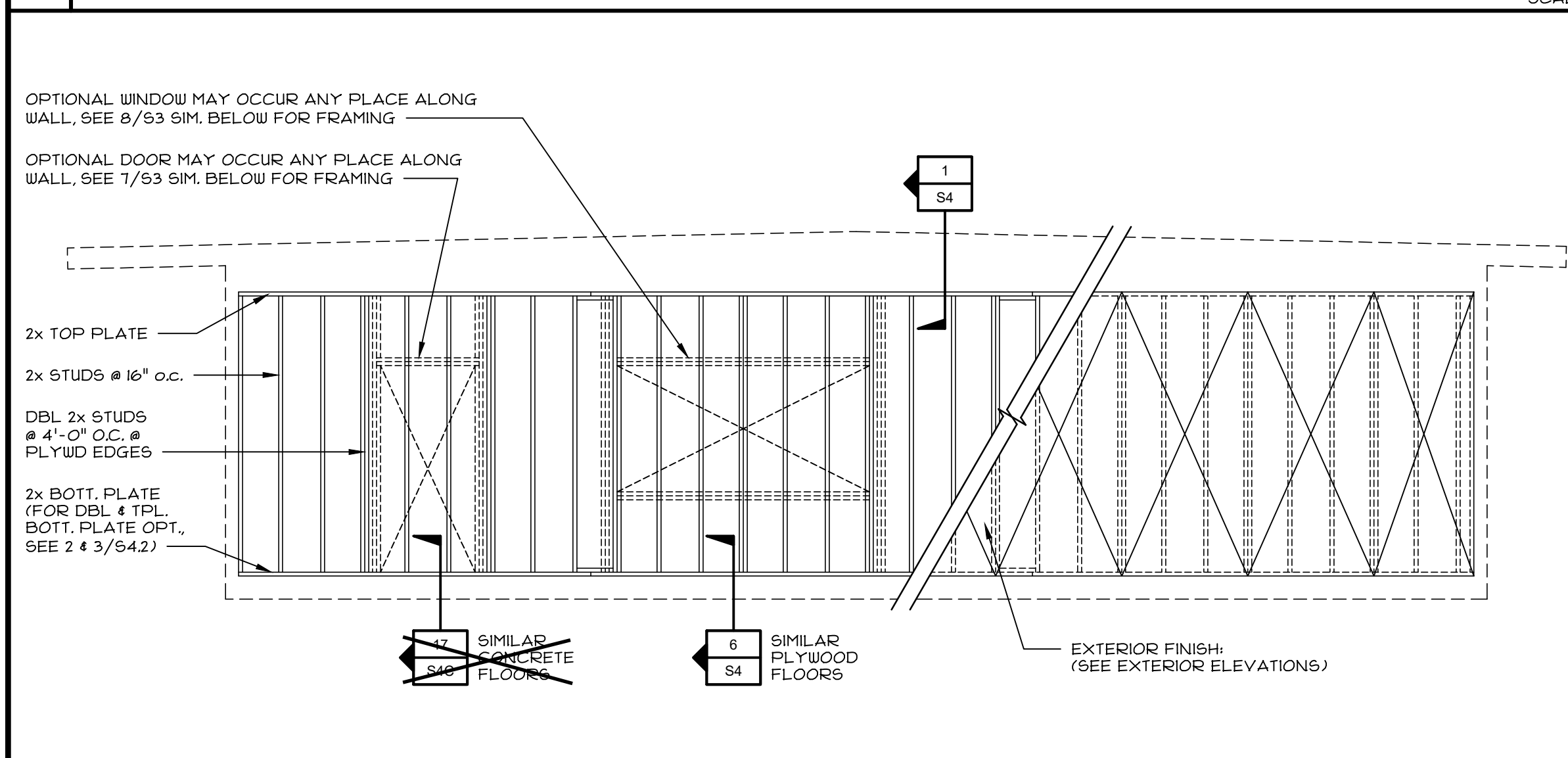
~~AT 2x6 WALLS (6'-0" MAX OPENINGS)~~

~~AT 2x6 WALLS (8'-0" MAX OPENINGS)~~

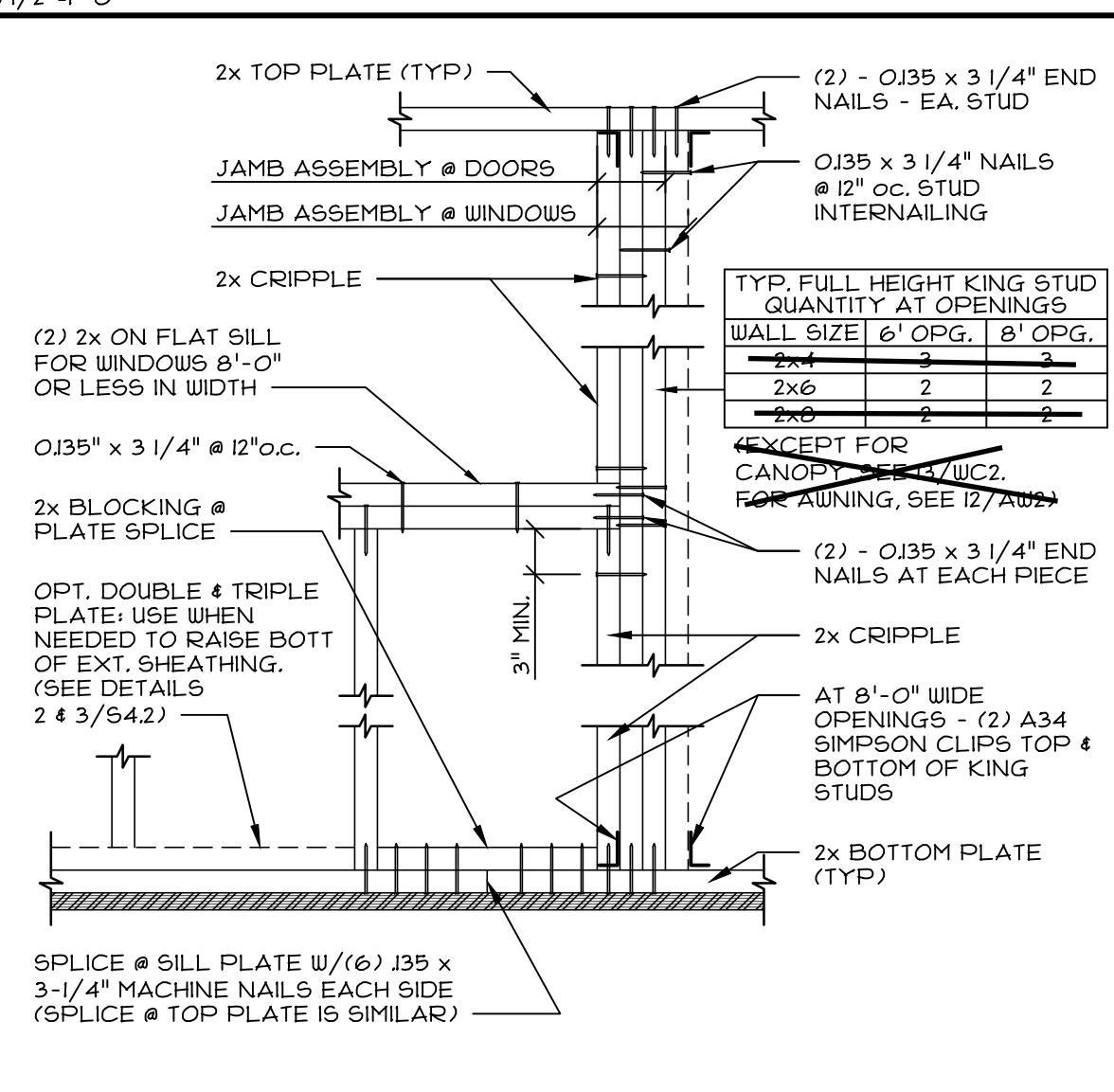
~~AT 2x8 WALLS (8'-0" MAX OPENINGS)~~

NOTE:  
FOR HEADER CONFIGURATIONS AT:  
1) SUSPENDED CANOPY - SEE 12/WC2.  
2) AWNING - PER THIS DETAIL.  
3) ROLL-UP WINDOW - 12/S3C.

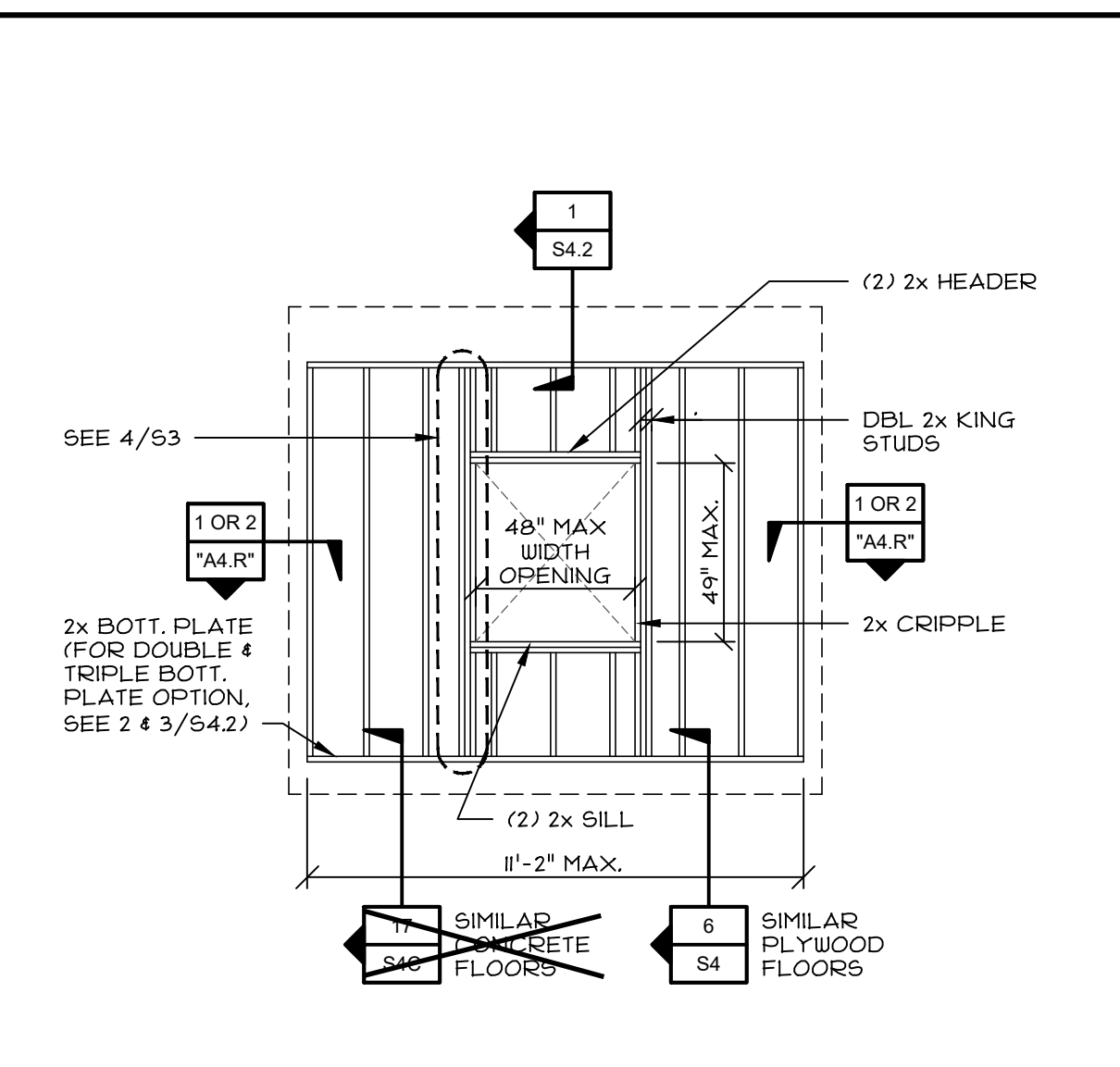
12 WINDOW HEADER CONFIGURATIONS  
SCALE: 1/2"=1'-0"



3 TYPICAL SIDEWALL FRAMING ELEVATION  
SCALE: 1/4"=1'-0"

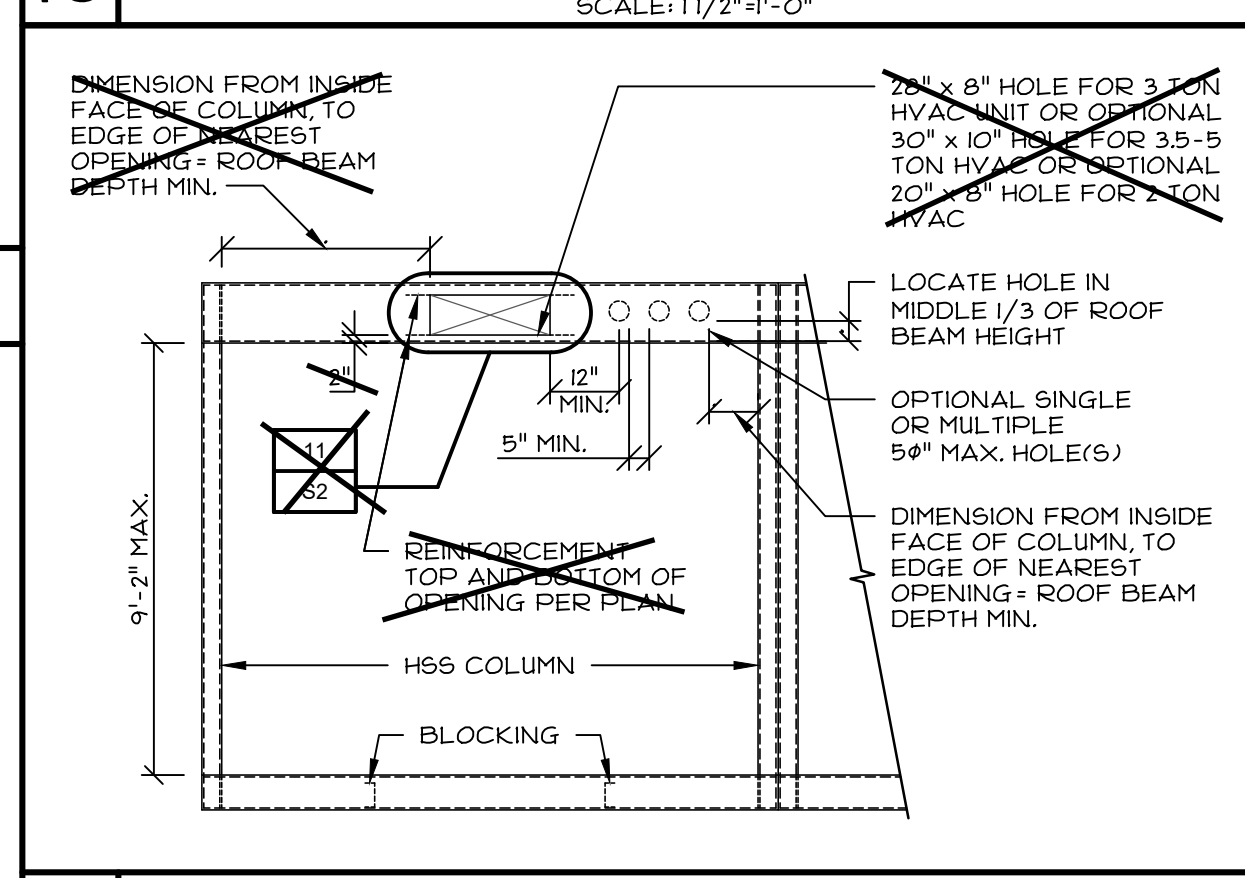


4 TYPICAL STUD NAILING DETAIL  
SCALE: 1"=1'-0"

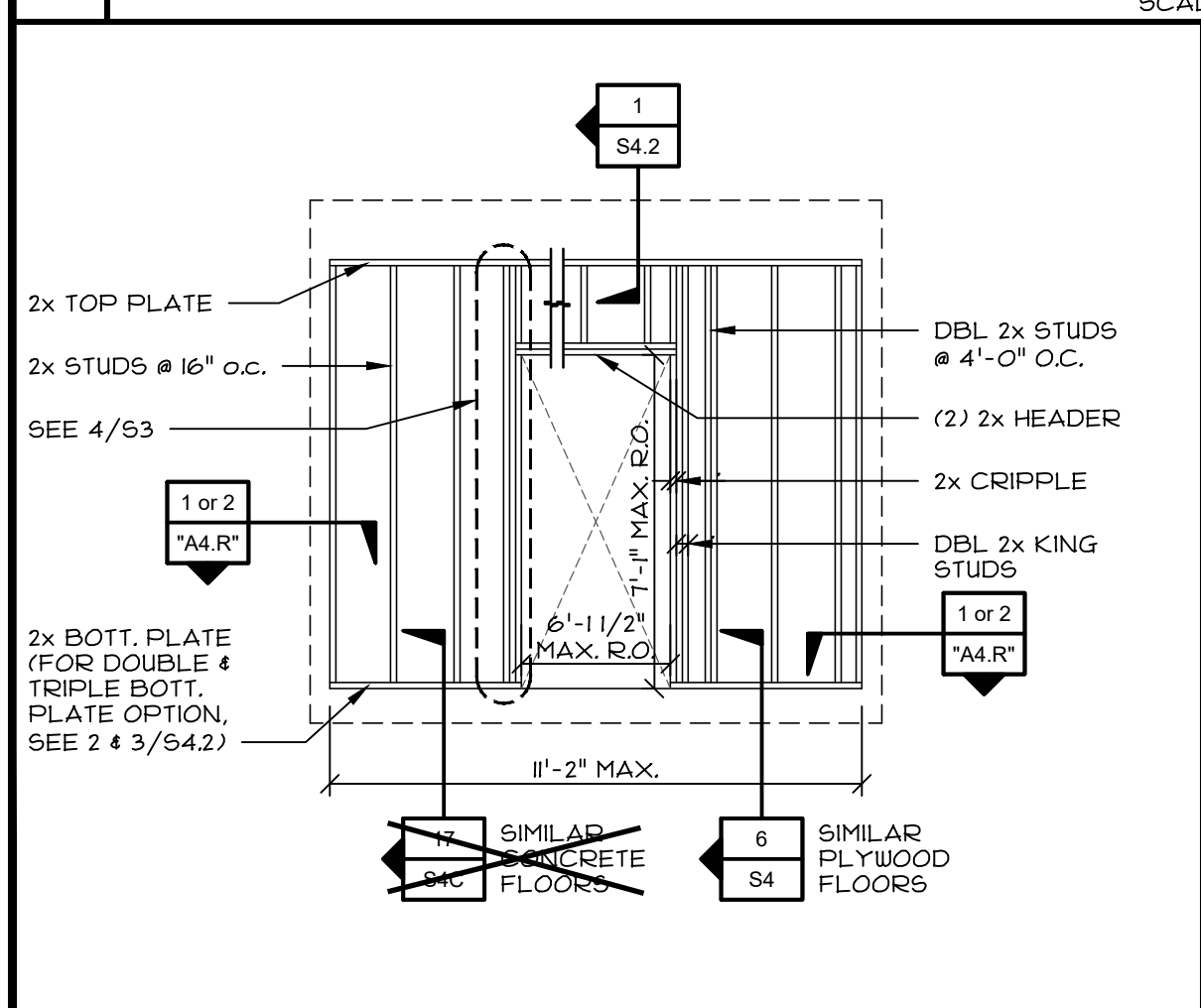


5 WALL FRAMING - INTERIOR HVAC  
SCALE: 1/4"=1'-0"

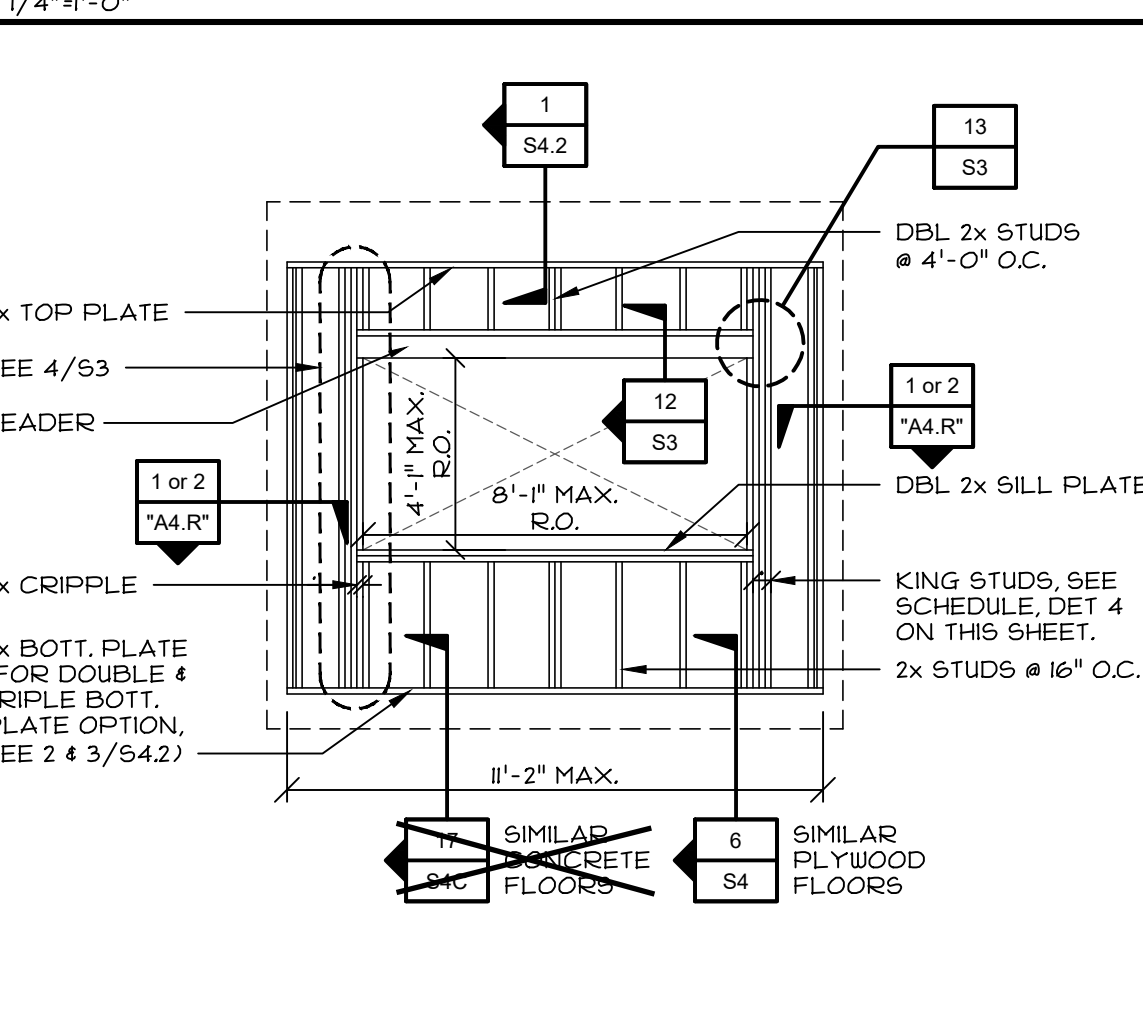
13 HEADER END CONNECTION  
SCALE: 1/2"=1'-0"



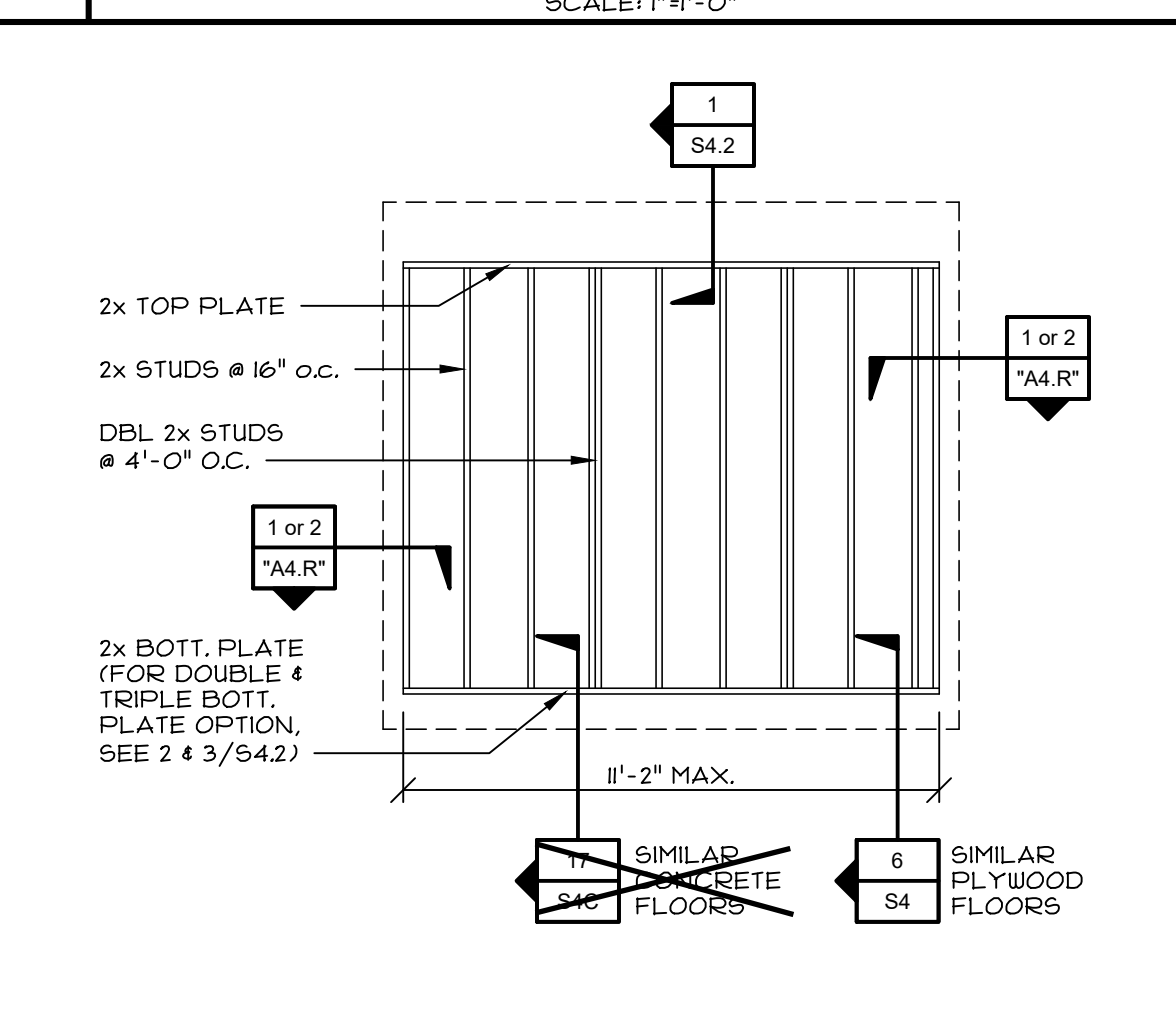
6 END FRAME ELEVATION  
SCALE: 1/4"=1'-0"



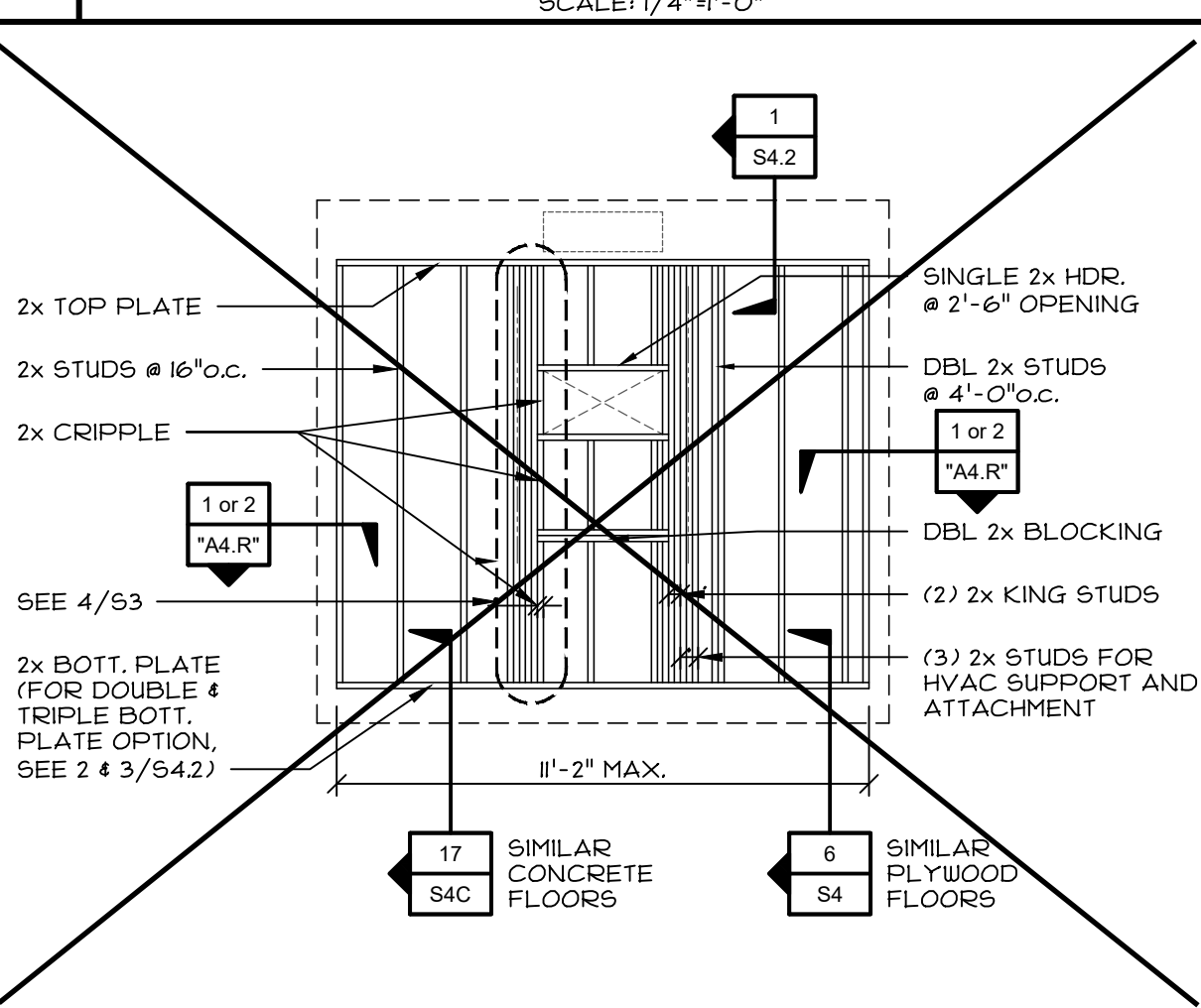
7 WALL FRAMING - EXTERIOR DOOR  
SCALE: 1/4"=1'-0"



8 WALL FRAMING - EXTERIOR WINDOW  
SCALE: 1/4"=1'-0"



9 WALL FRAMING - TYP. 12'-0" WALL  
SCALE: 1/4"=1'-0"



10 WALL FRAMING - EXTERIOR HVAC  
SCALE: 1/4"=1'-0"

PRE-CHECK (PC) DOCUMENT  
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BI-PITCHED ROOF LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION

ROBERTS FERRY ES  
at  
ROBERTS FERRY UESD

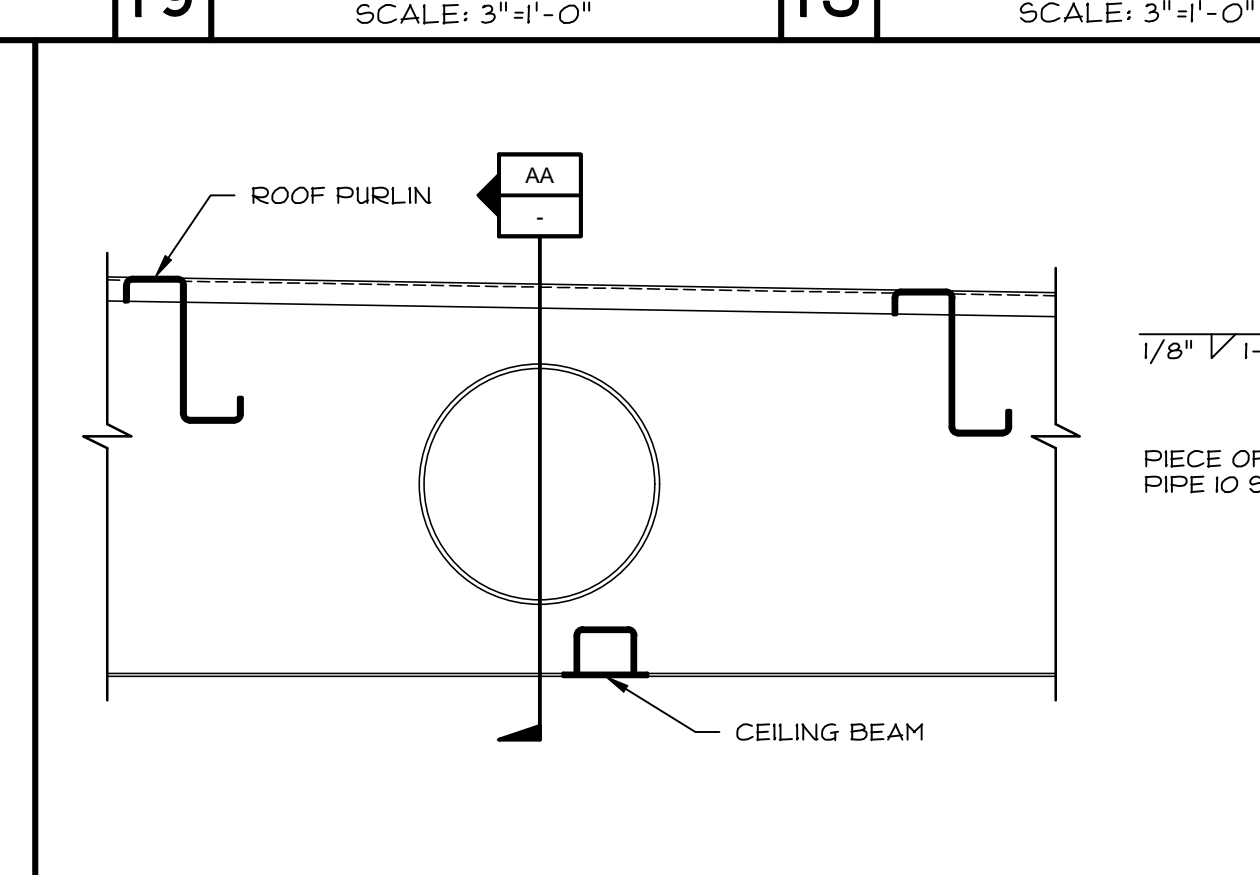
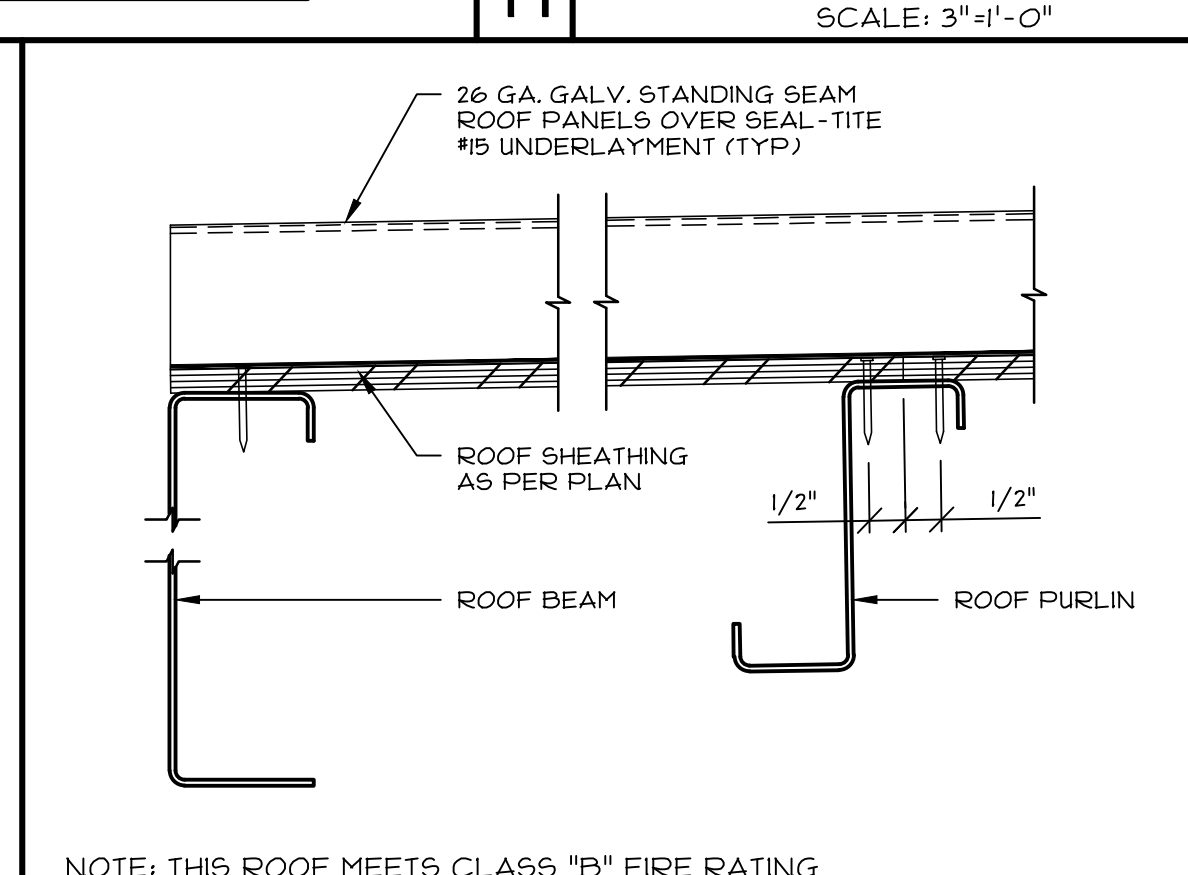
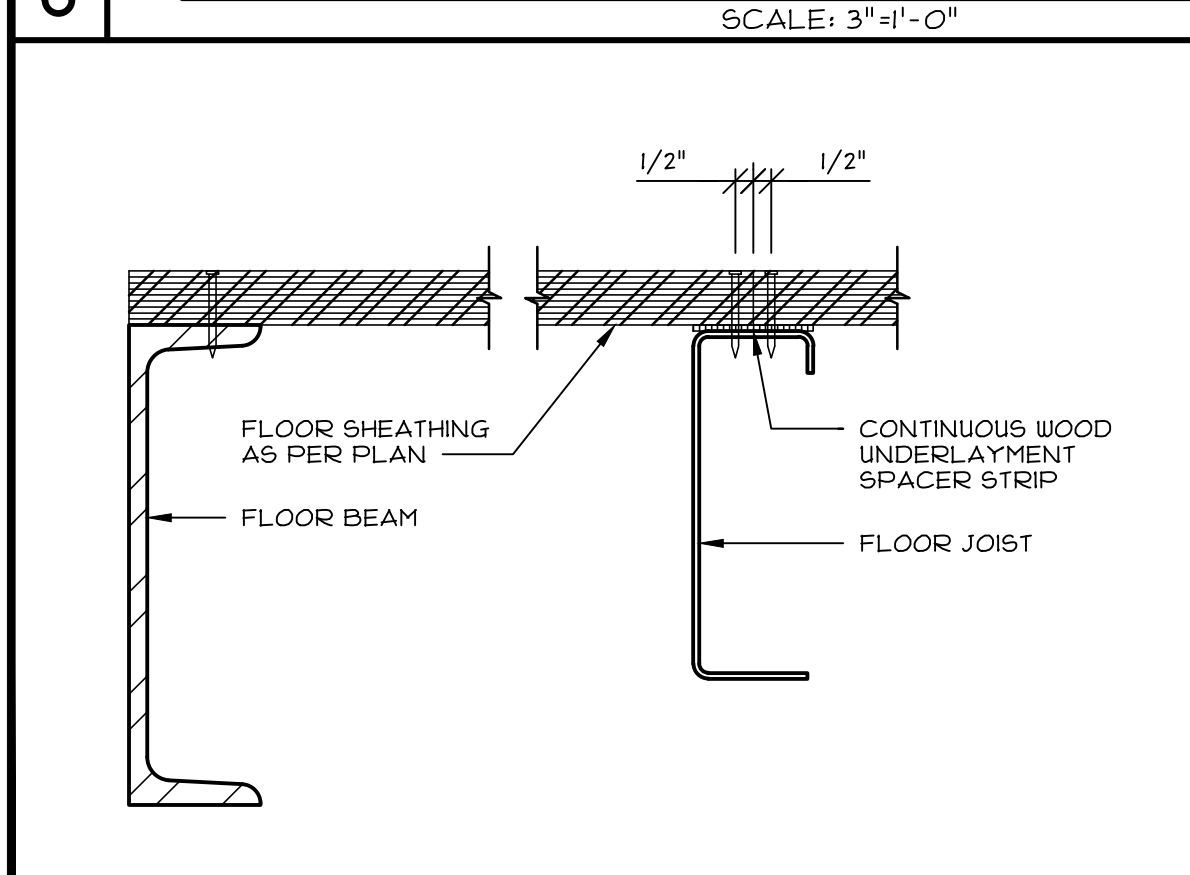
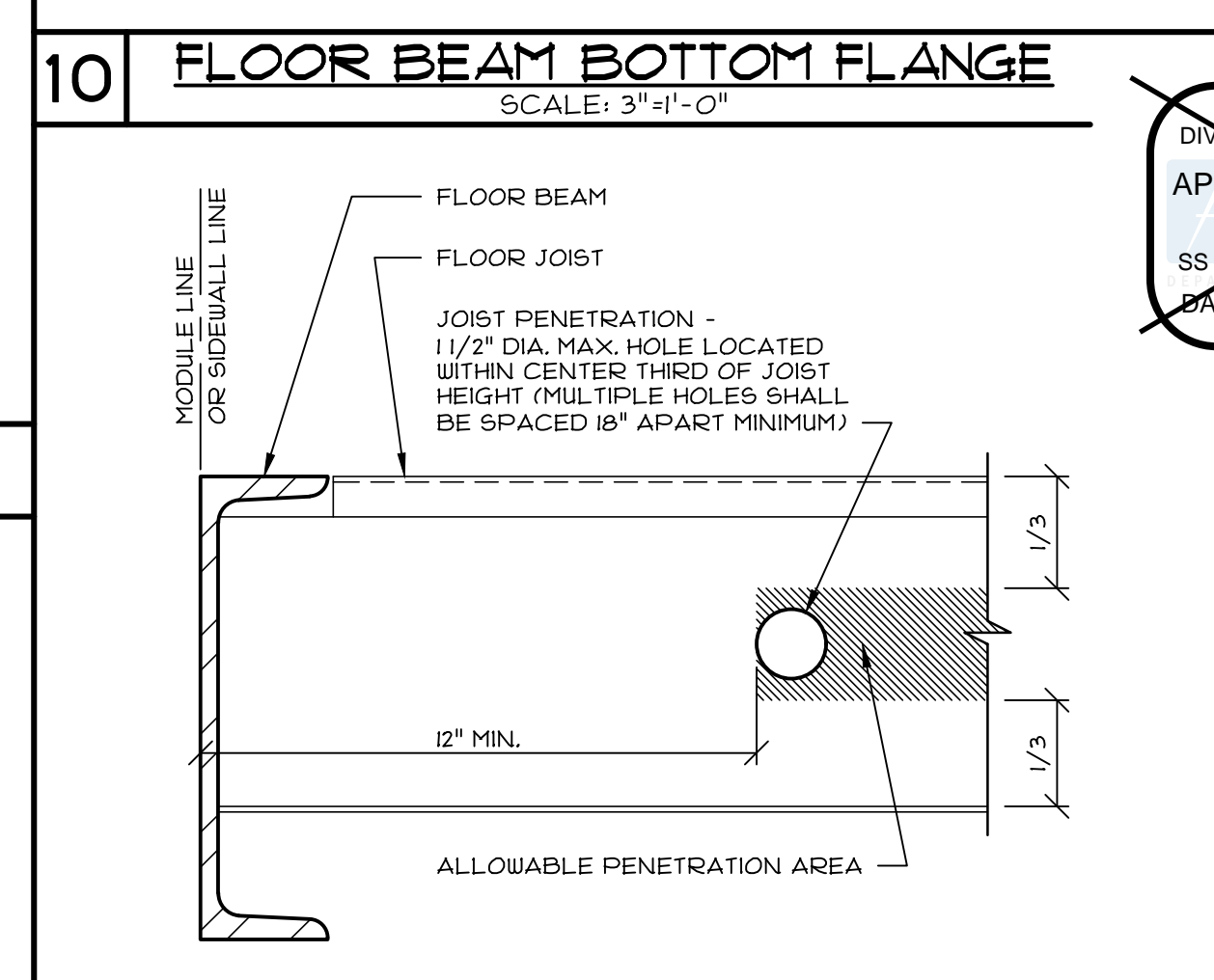
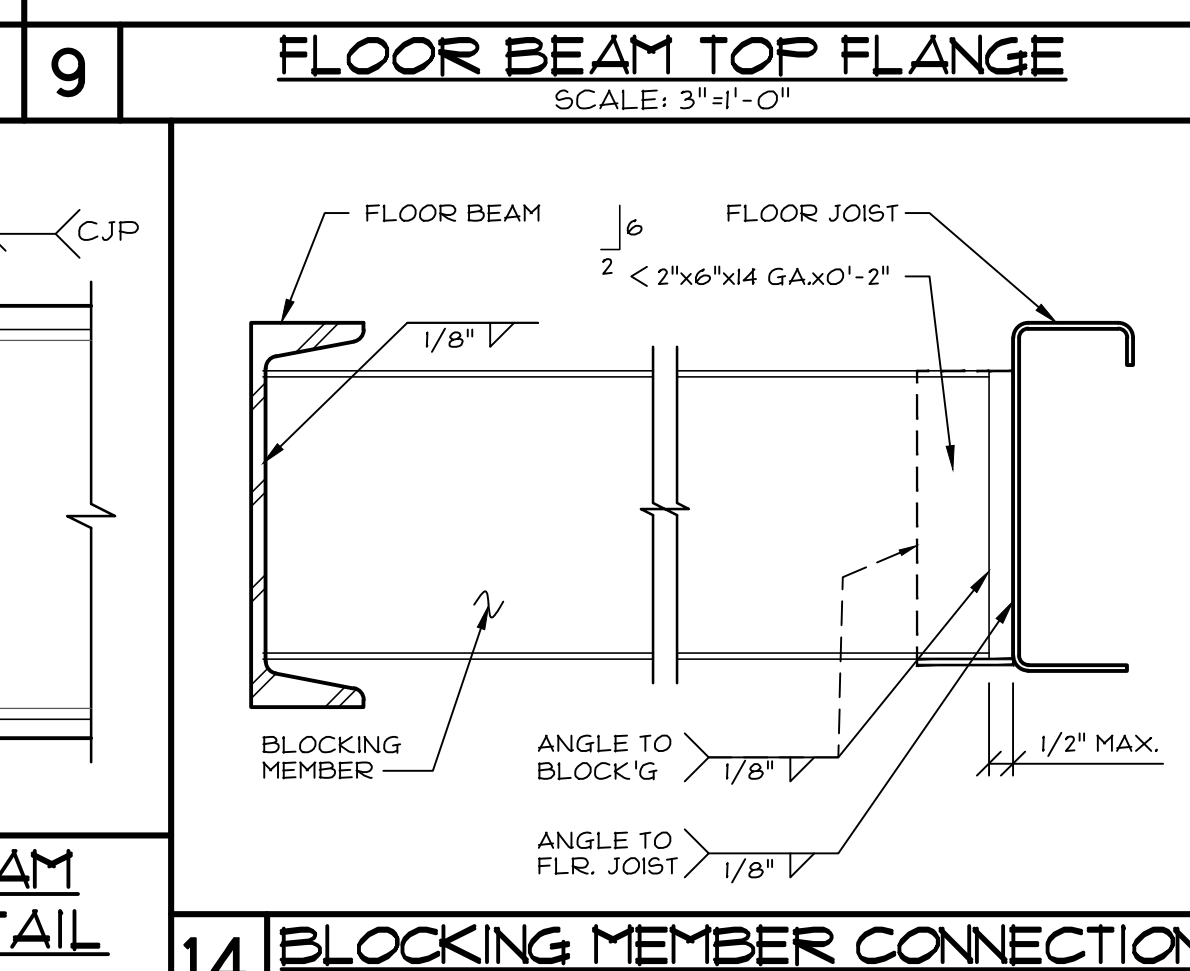
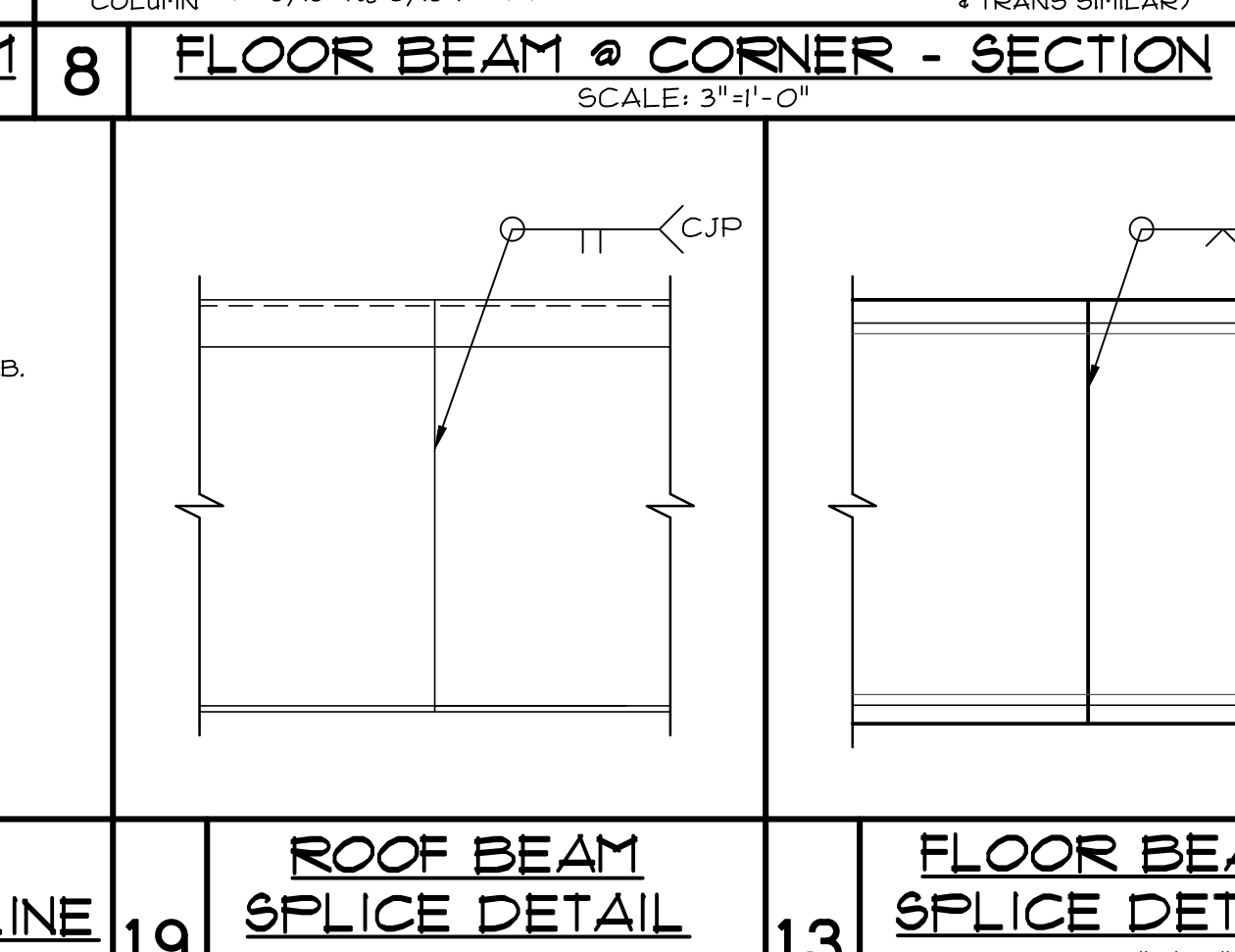
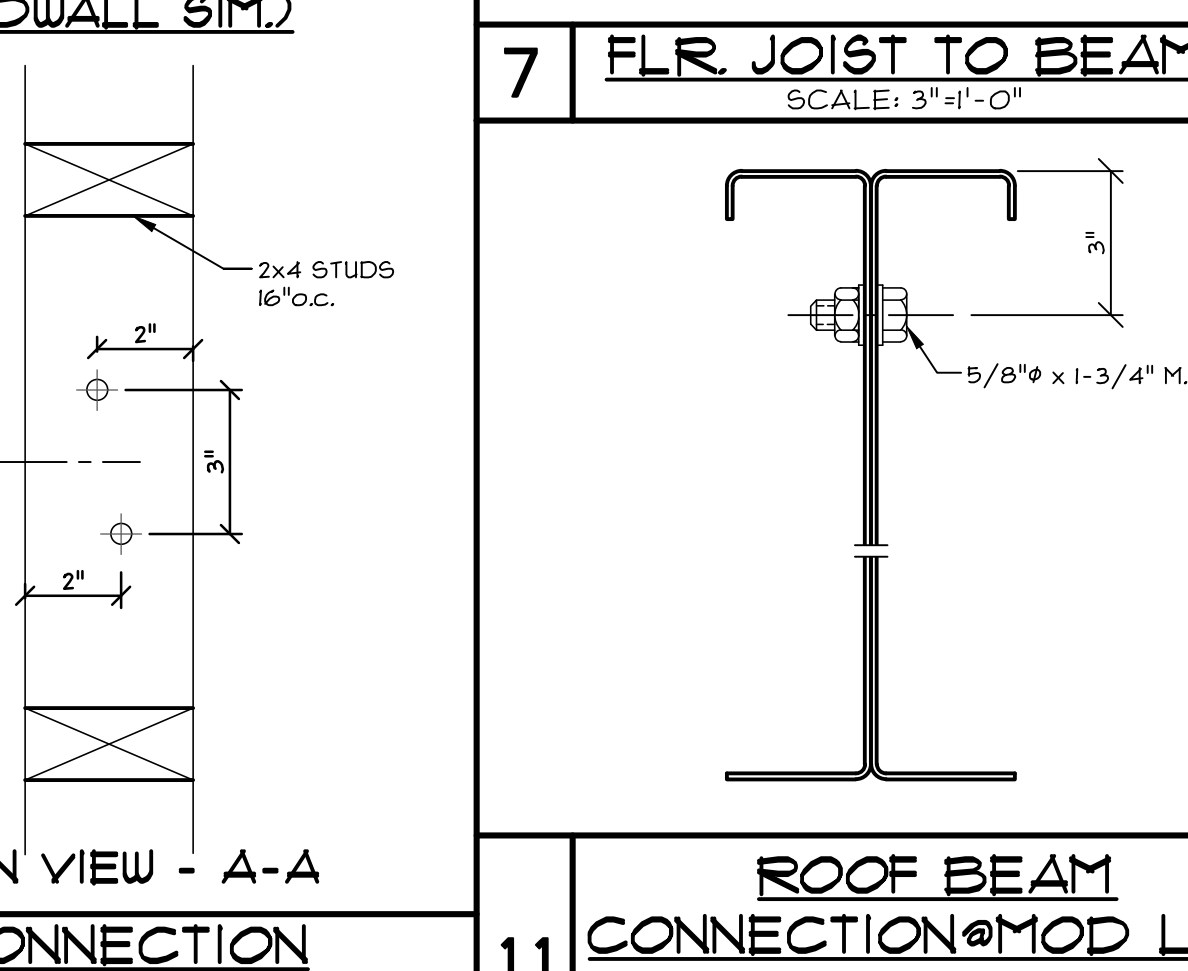
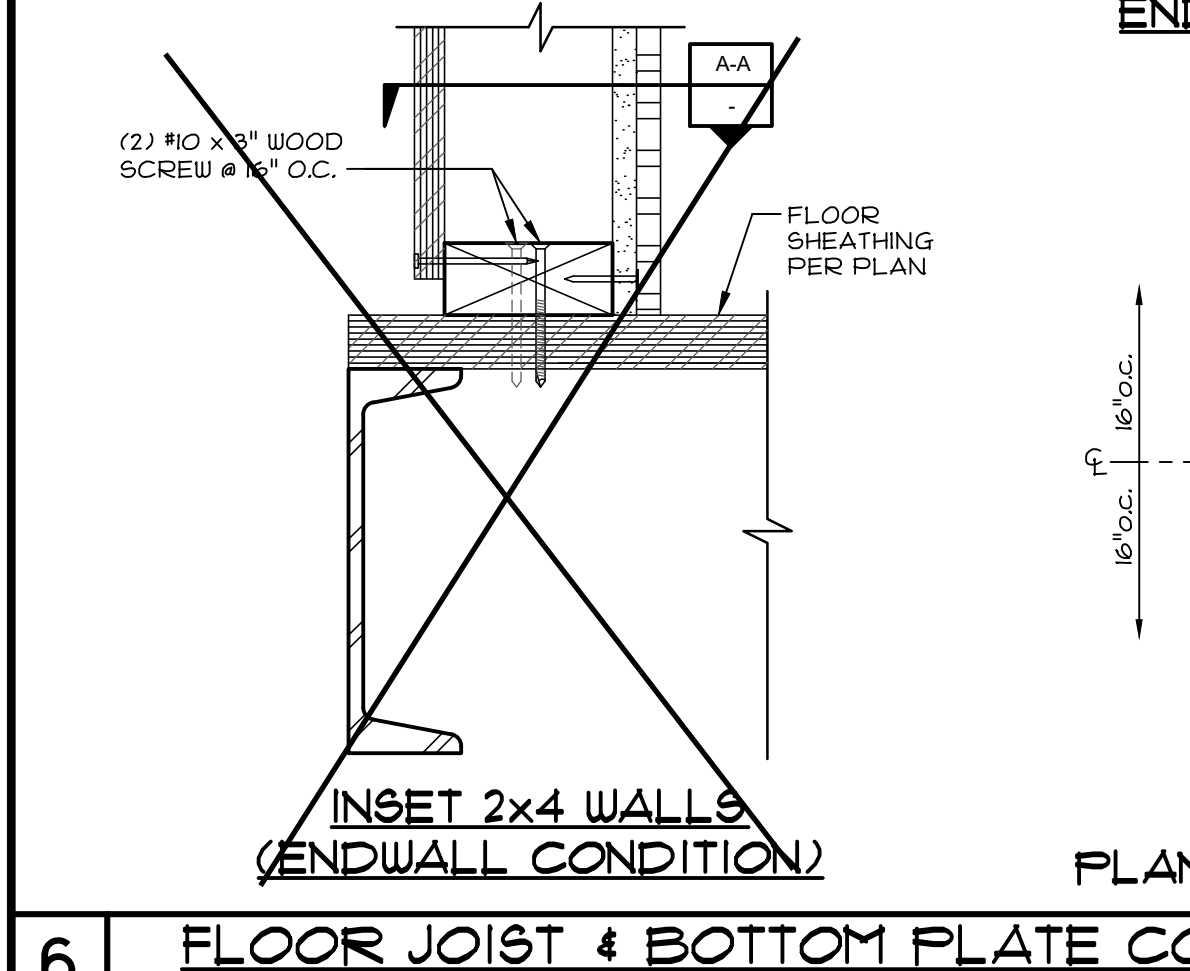
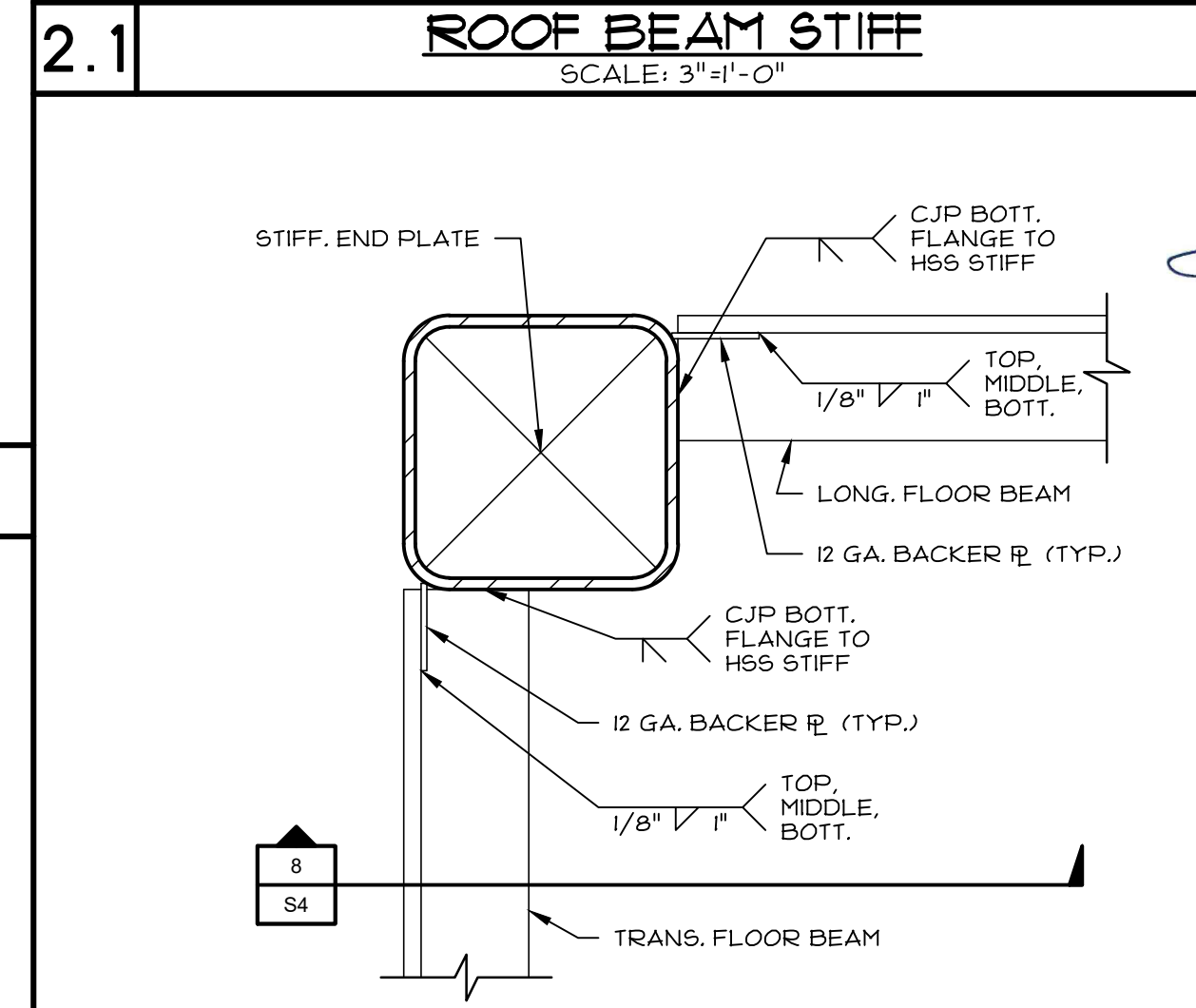
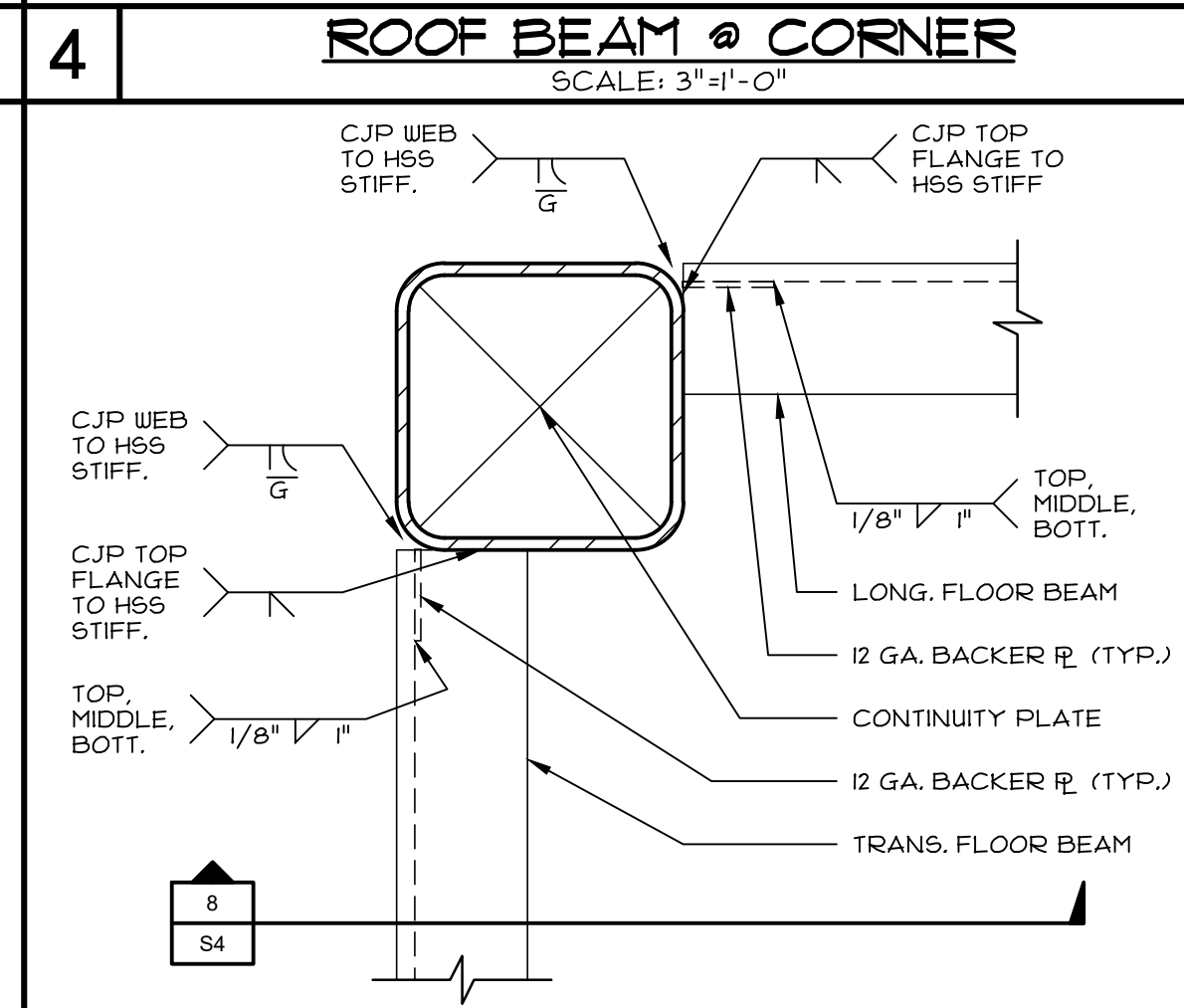
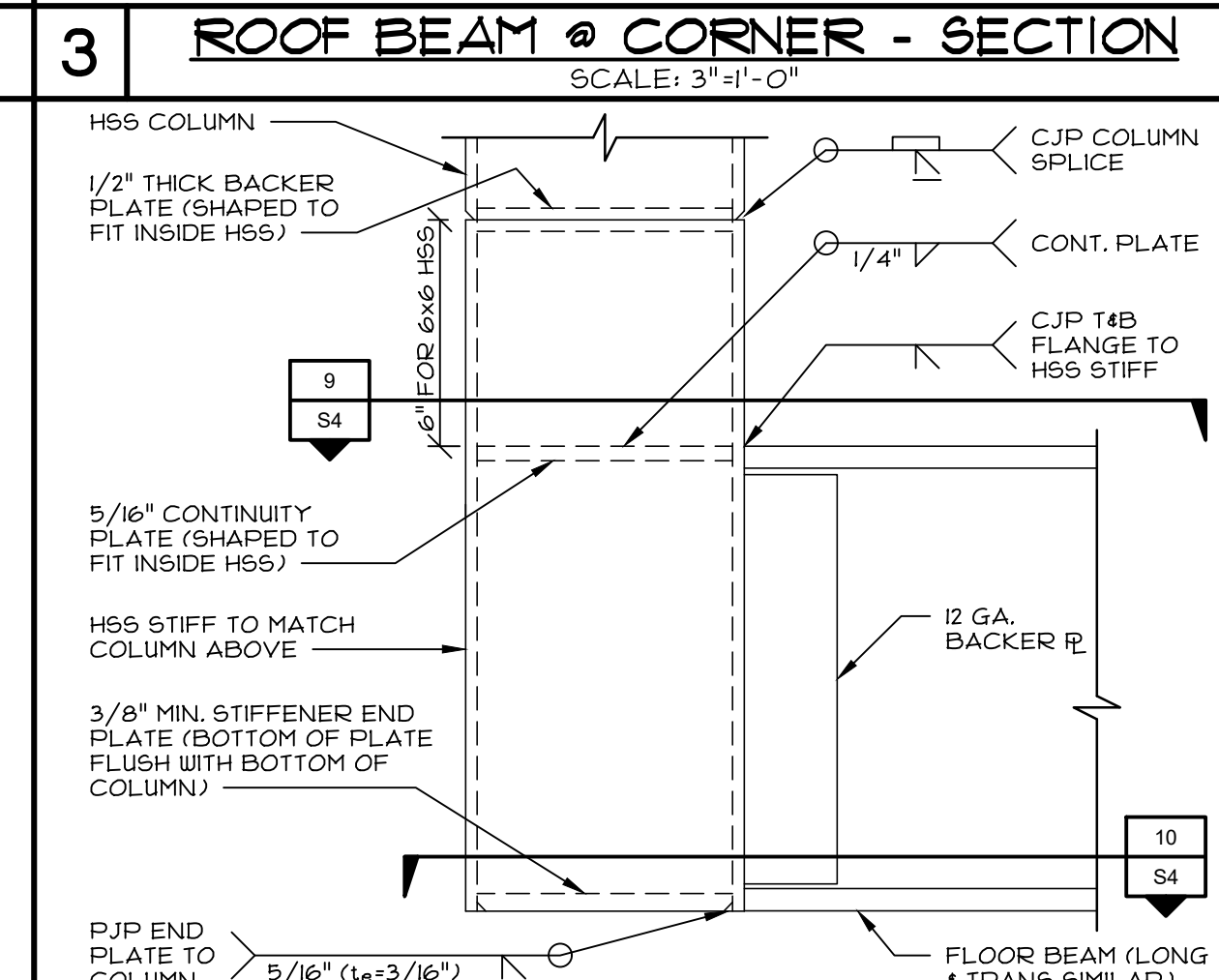
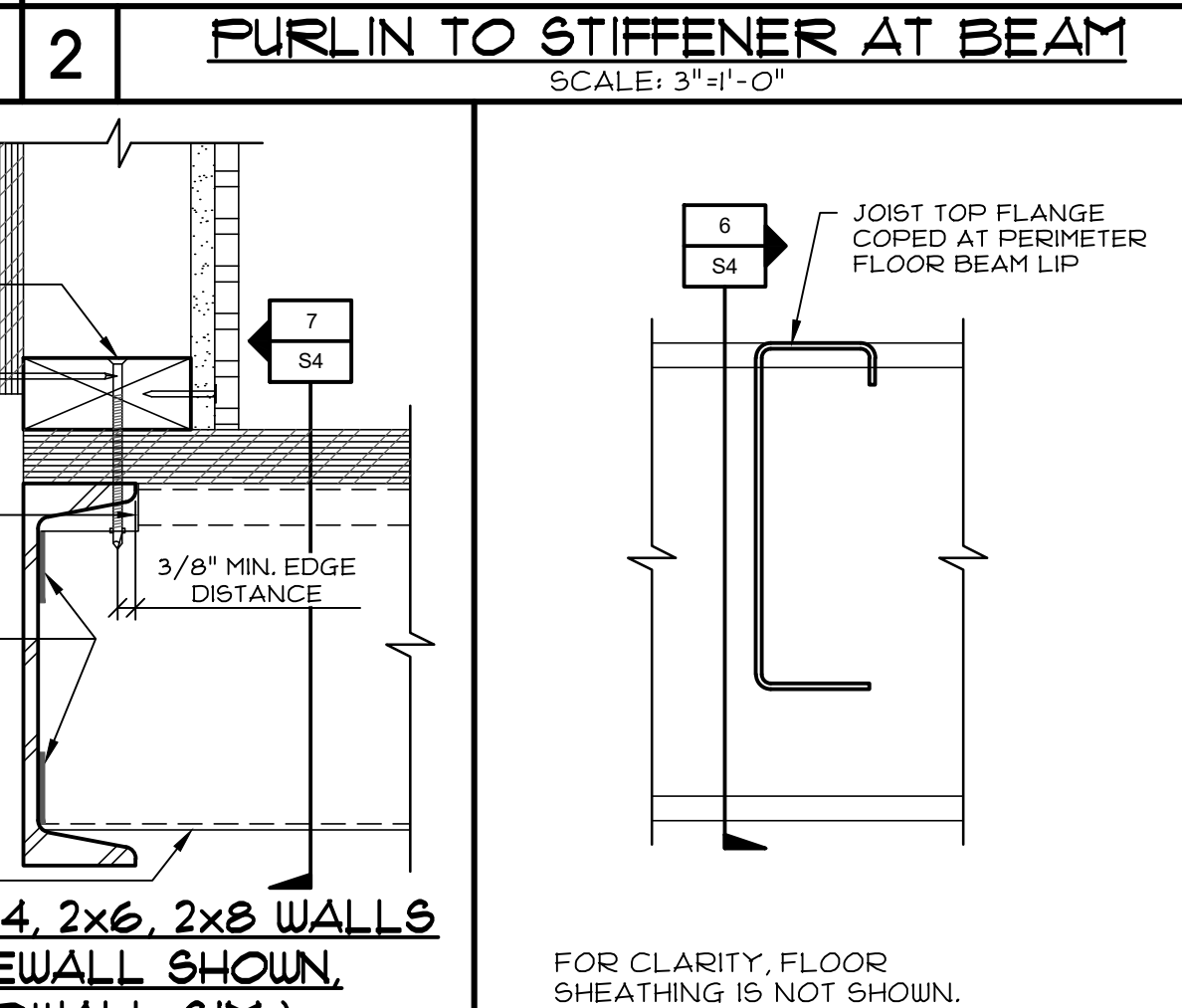
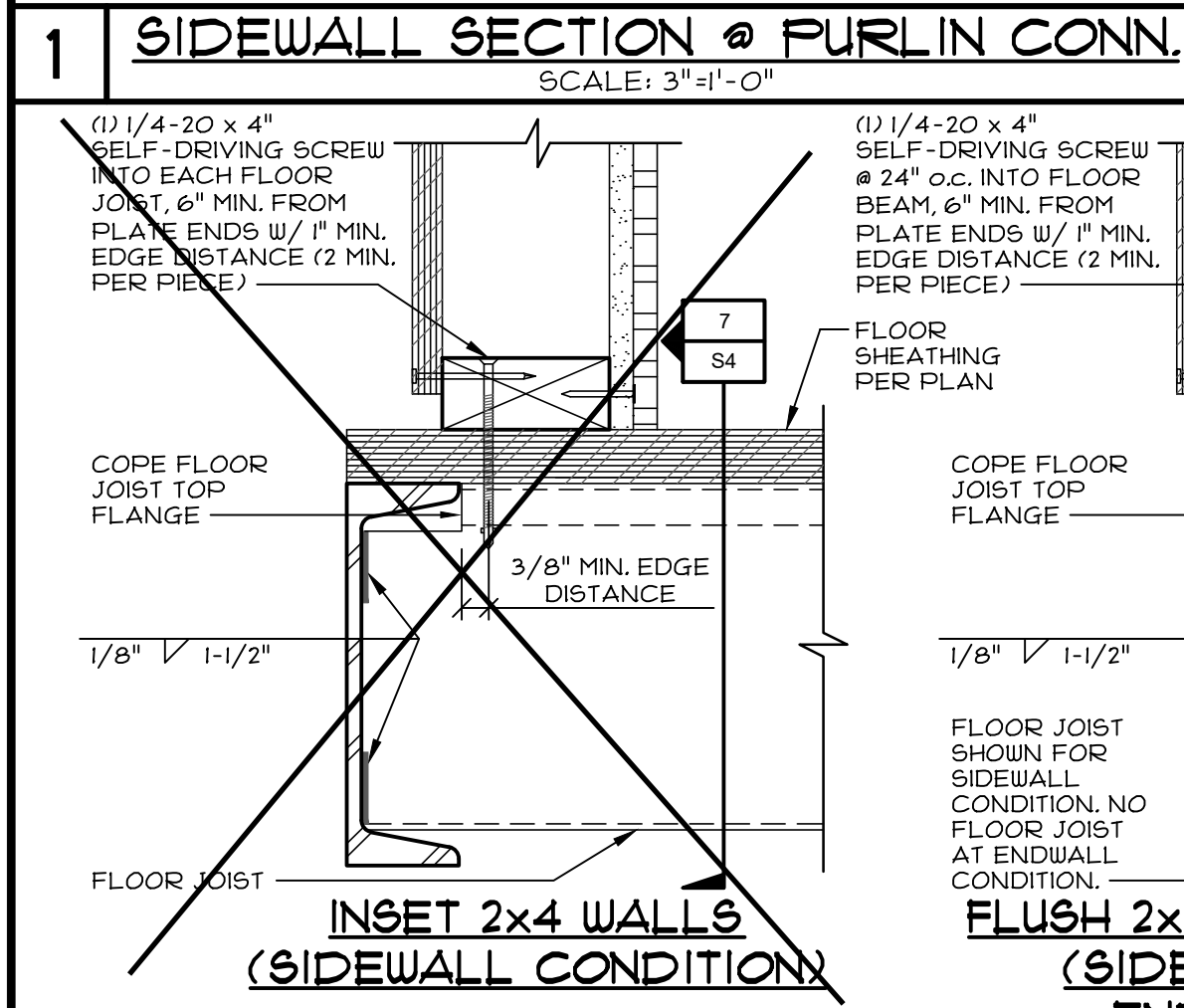
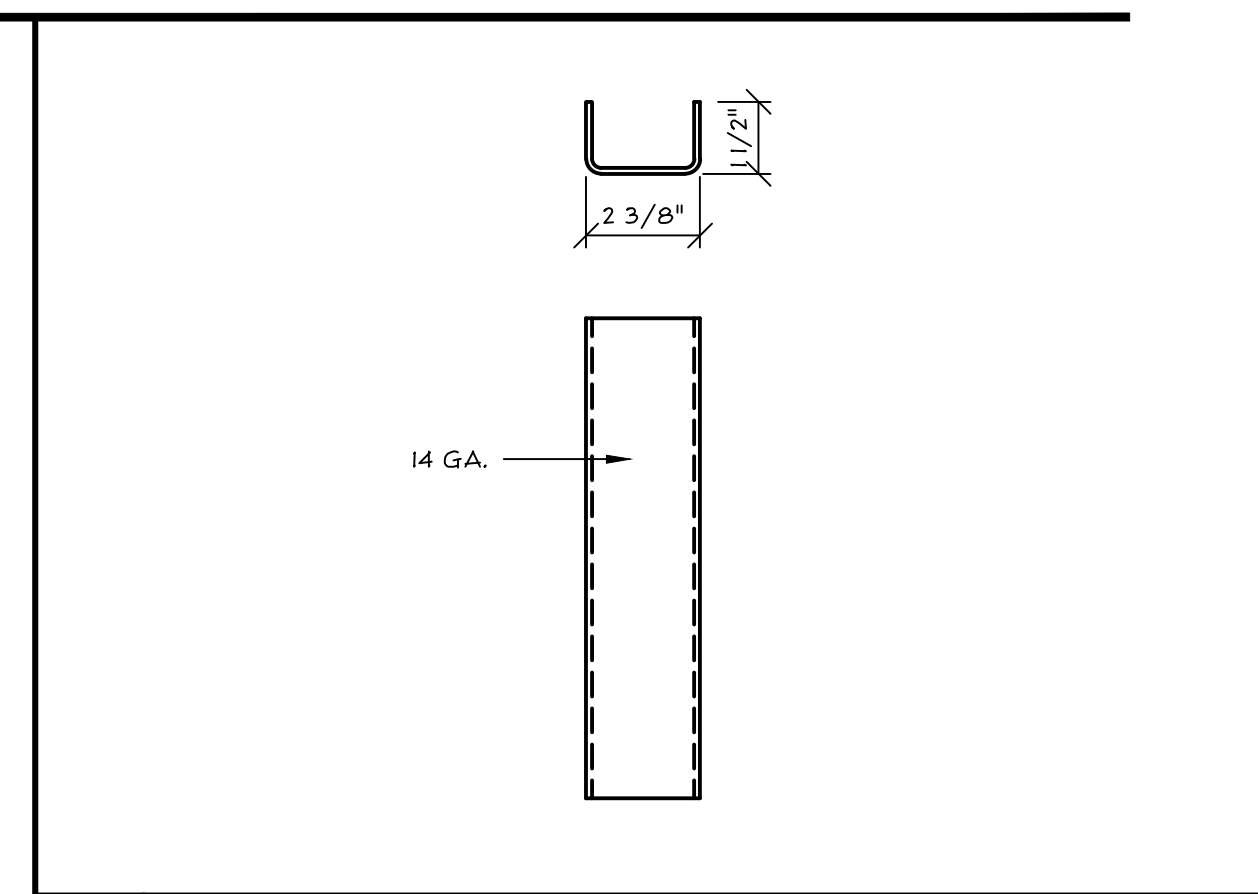
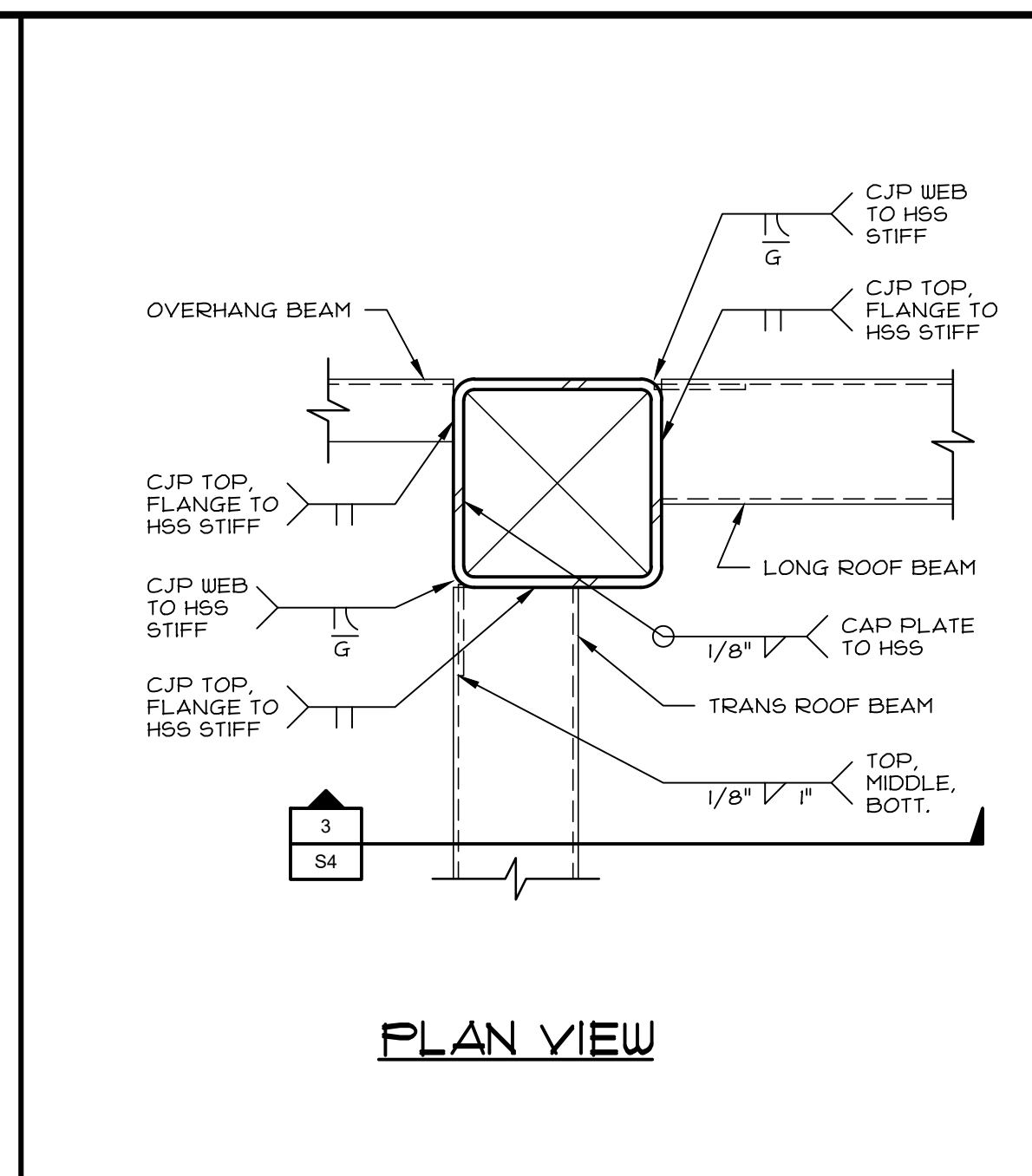
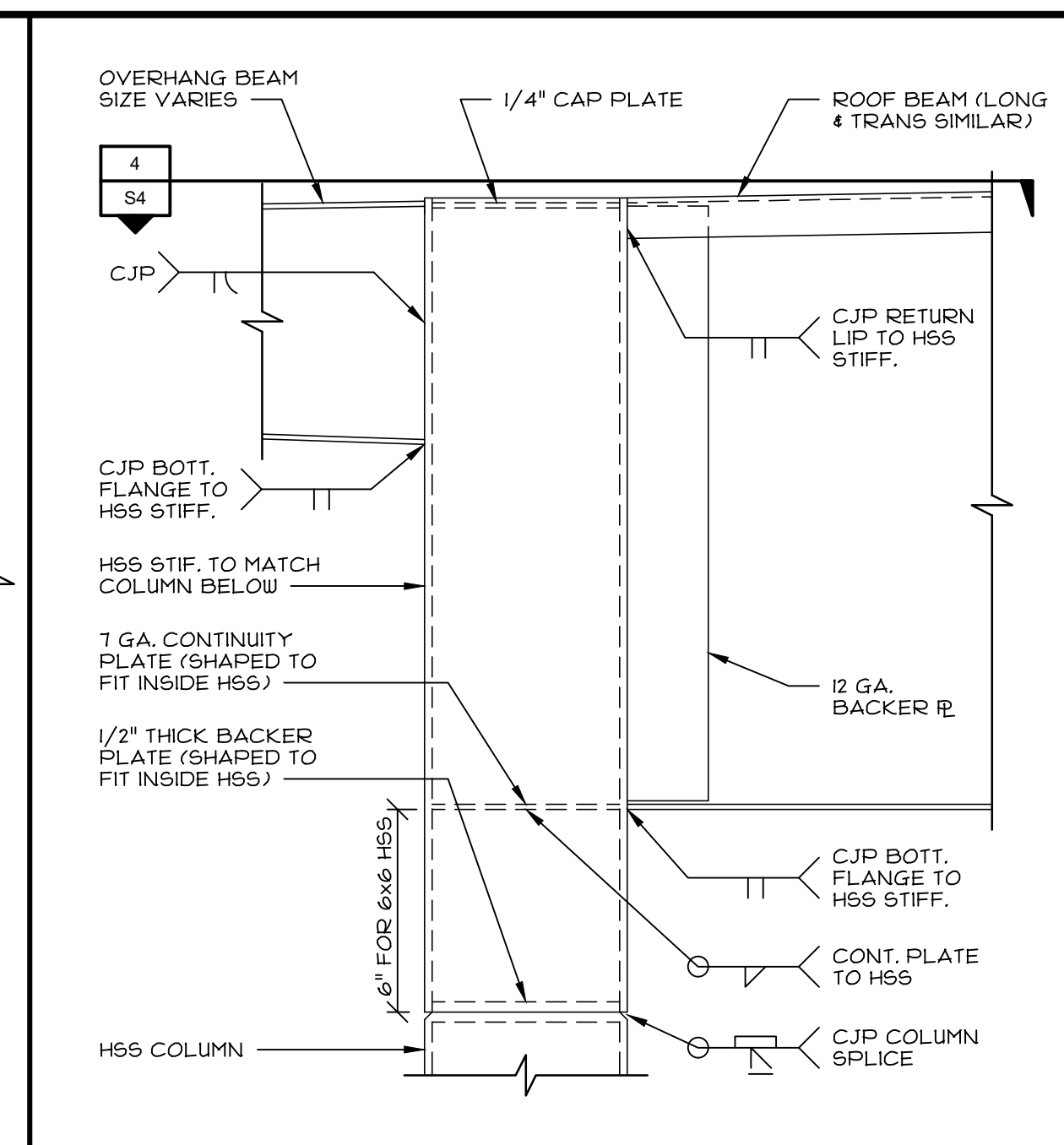
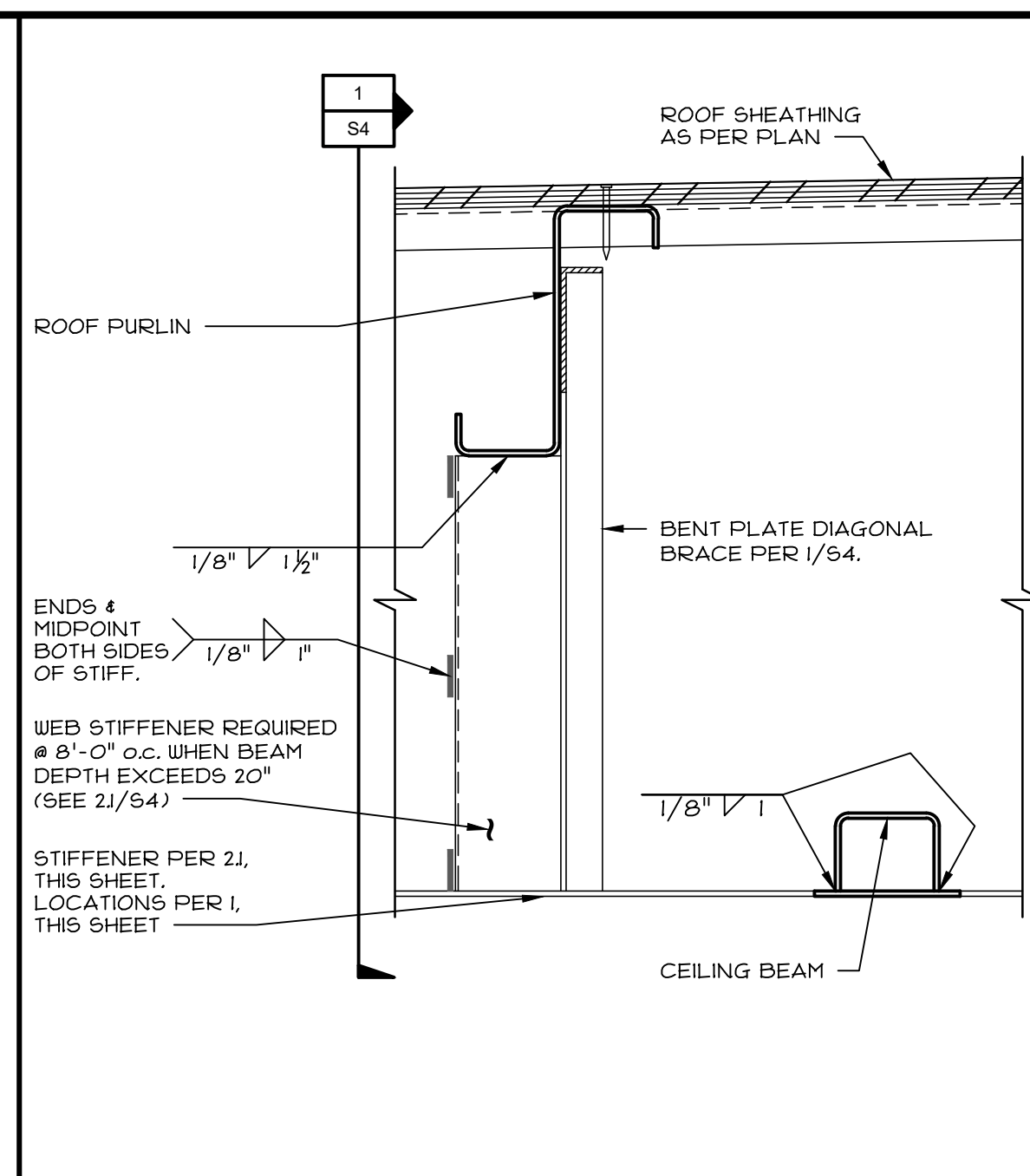
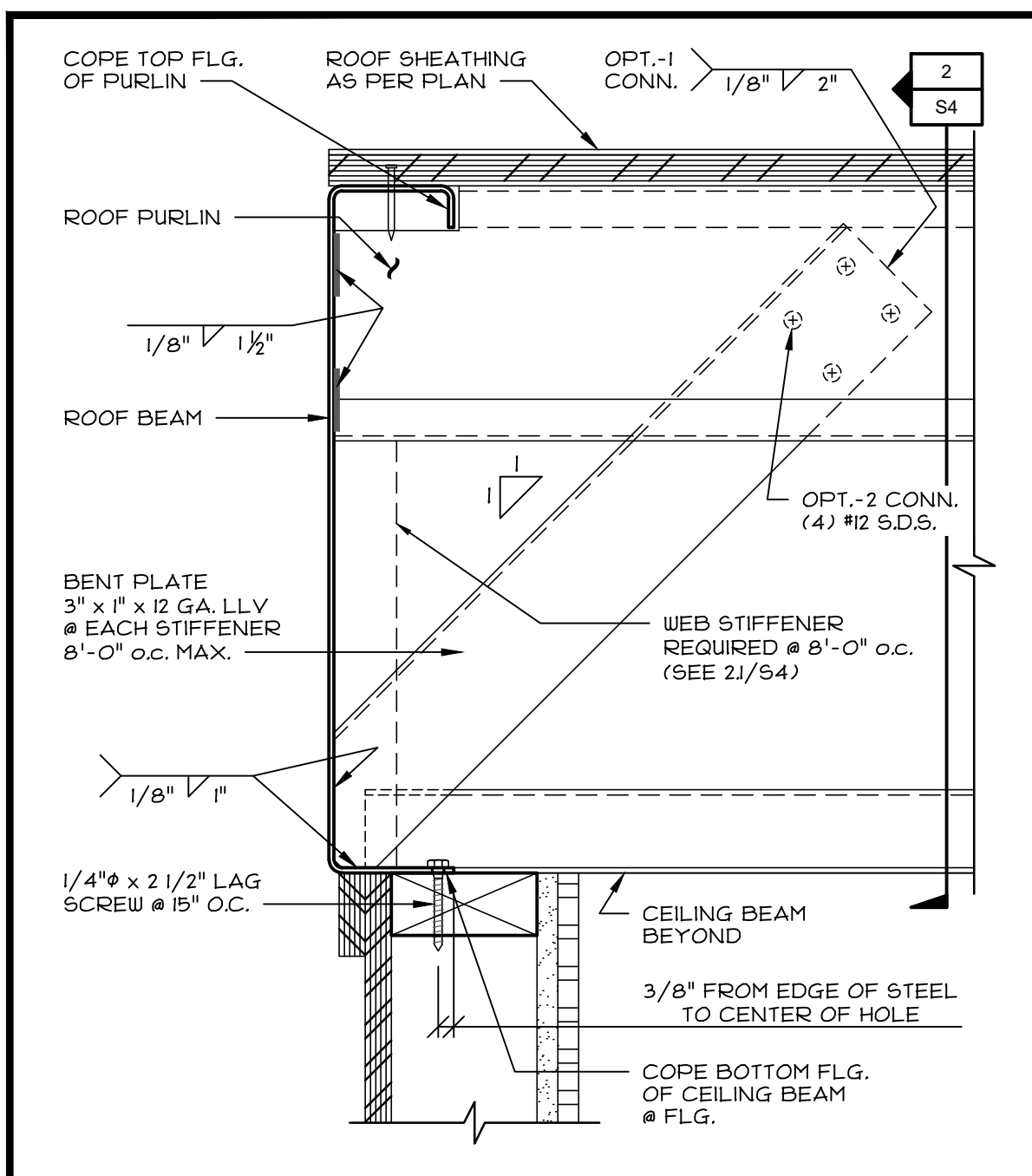
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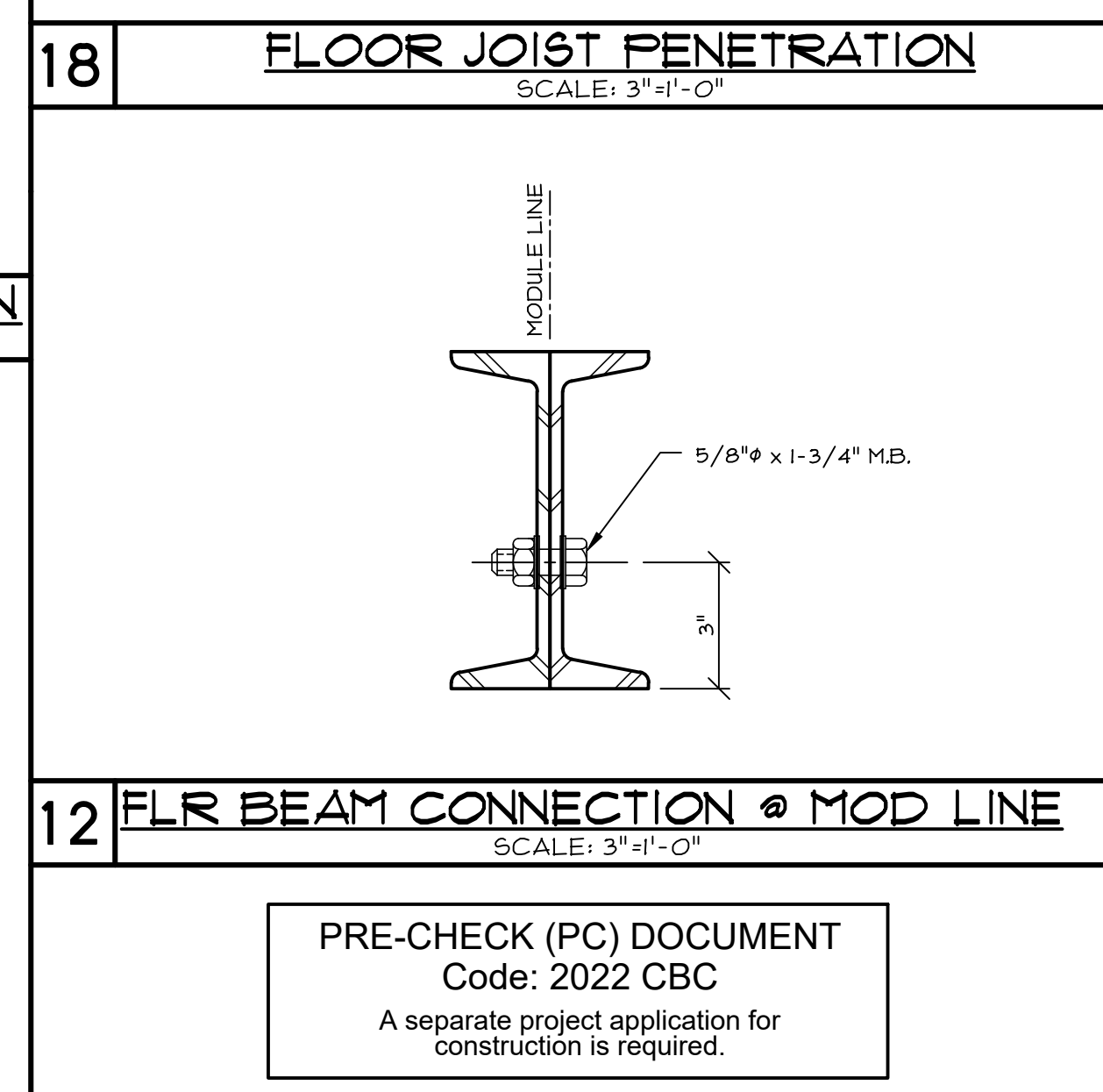
S3

24x40 TO 120x40 P.C.

REBID - April 14, 2024



NOTES:  
 1. ALL EXTERIOR WALL SHEATHING/SIDING SHALL BE INSTALLED OVER CLASS I OR II VAPOR BARRIER.  
 2. FOR FASTENER SCHEDULE, SEE SHEET S3FA



15 FLOOR SHEATHING ATTACHMENT SCALE: 3"=1'-0"

16 ROOF SHEATHING ATTACHMENT SCALE: 3"=1'-0"

17 10" Ø ROOF BEAM PENETRATION @ MOD-LINE SCALE: 1-1/2"=1'-0"

20 SHEET NOTES

12 FLR BEAM CONNECTION @ MOD LINE SCALE: 3"=1'-0"

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**ROBERTS FERRY ES**  
 at  
**ROBERTS FERRY UESD**

STRUCTURAL CONNECTION DETAILS

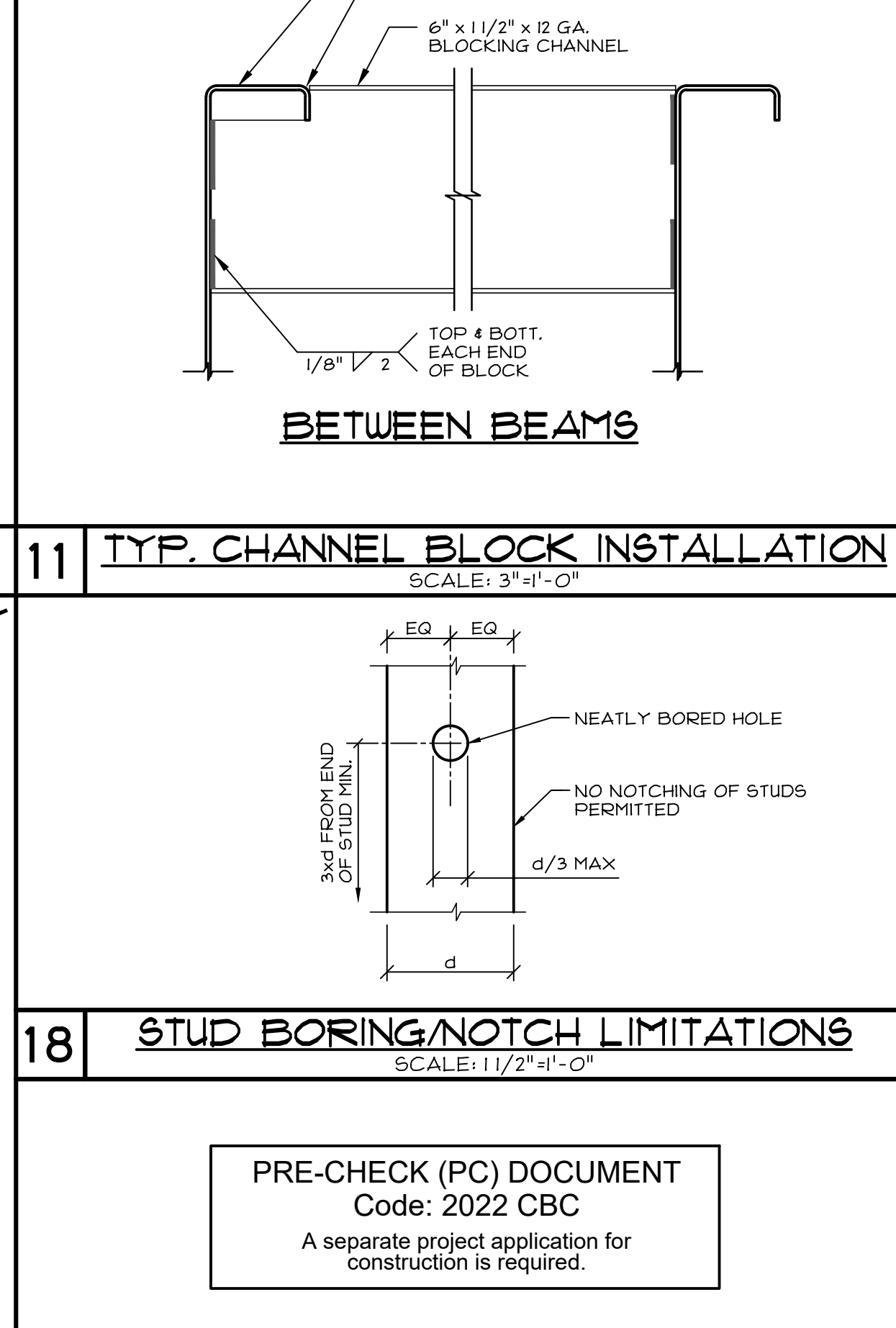
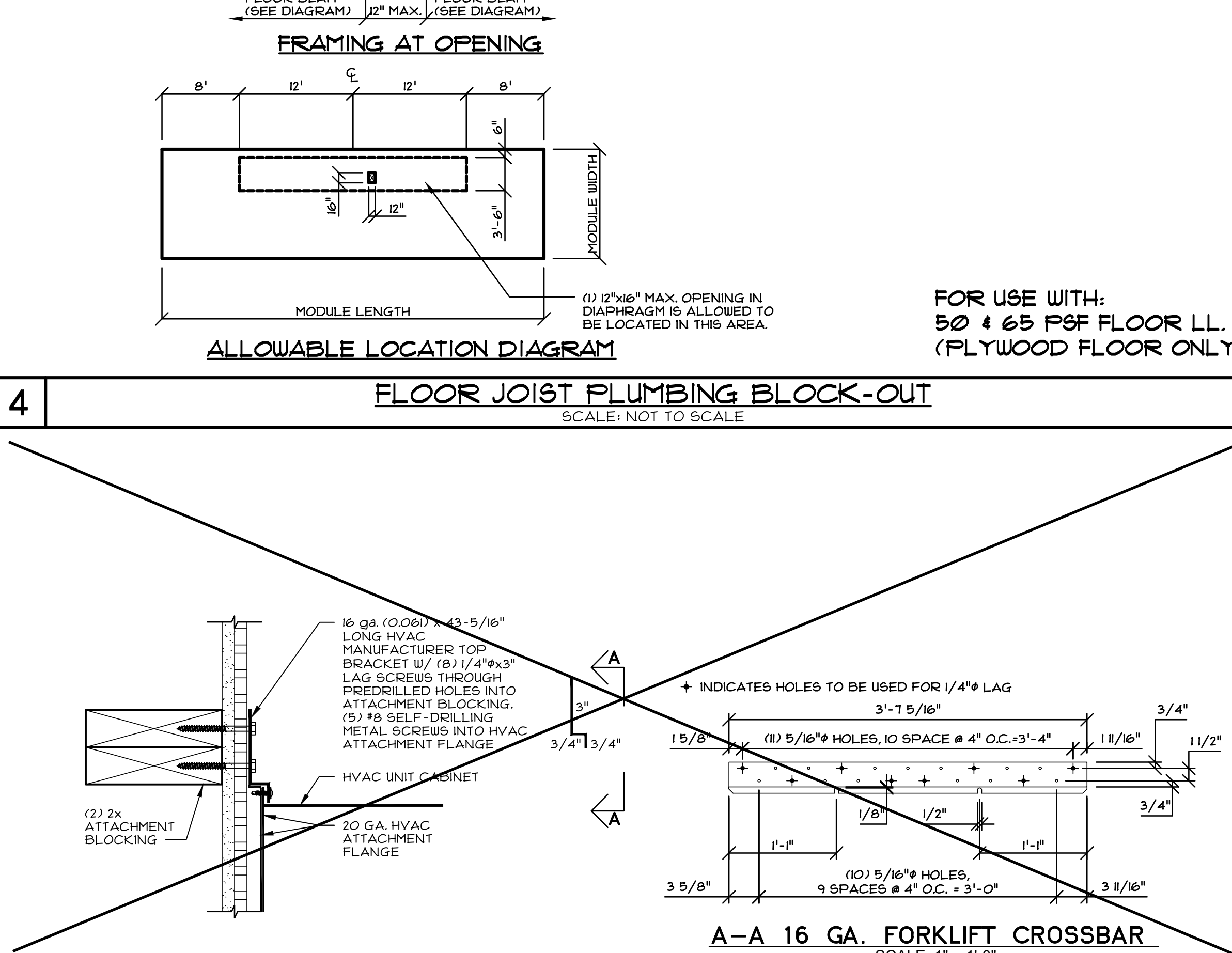
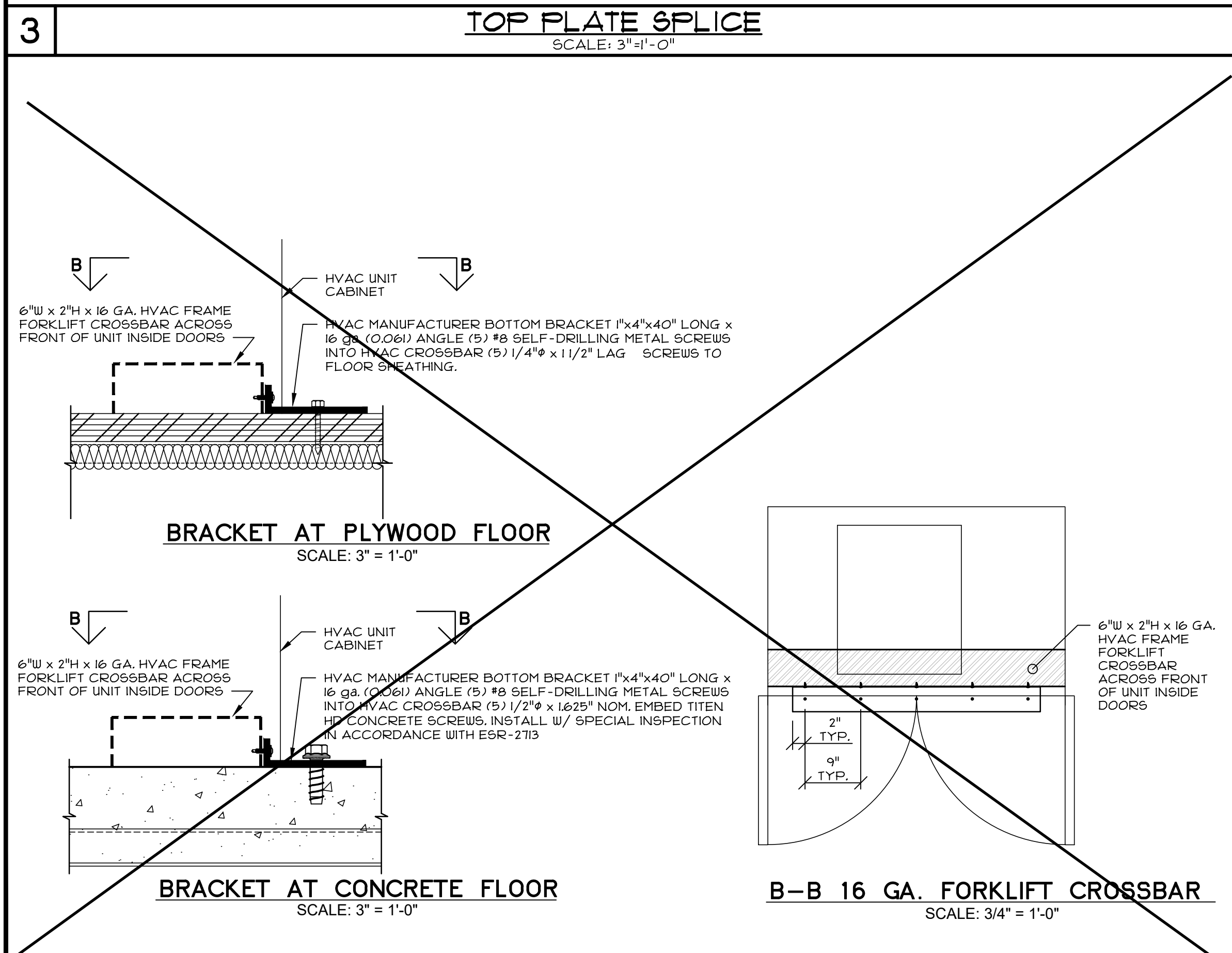
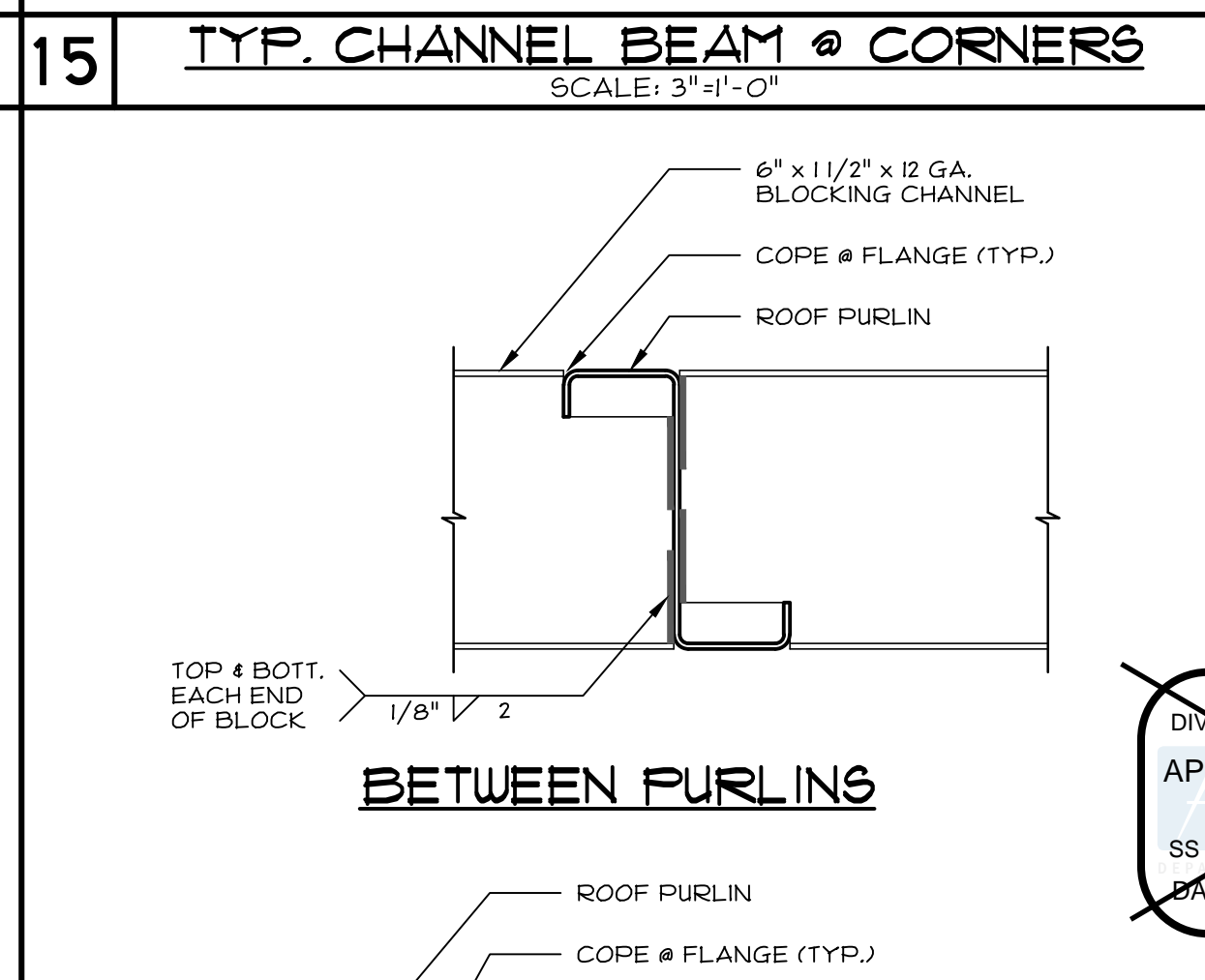
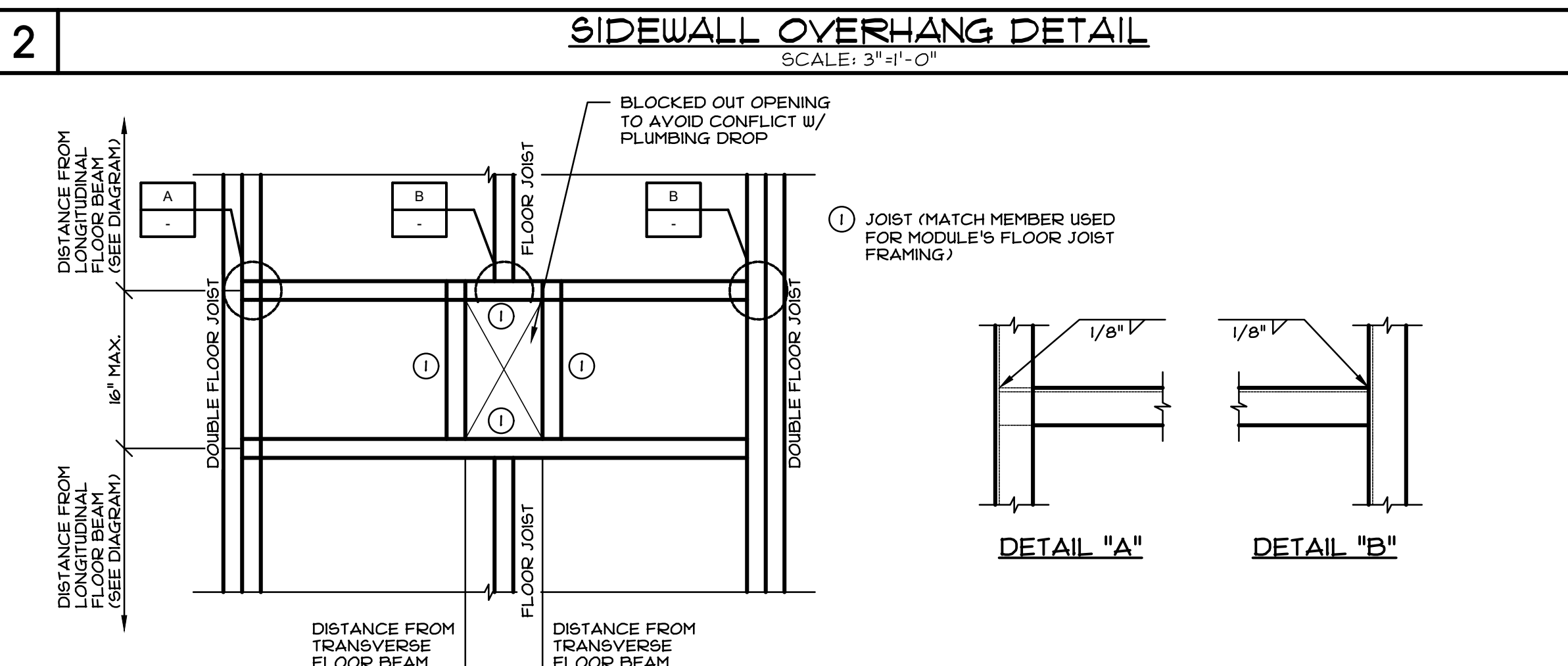
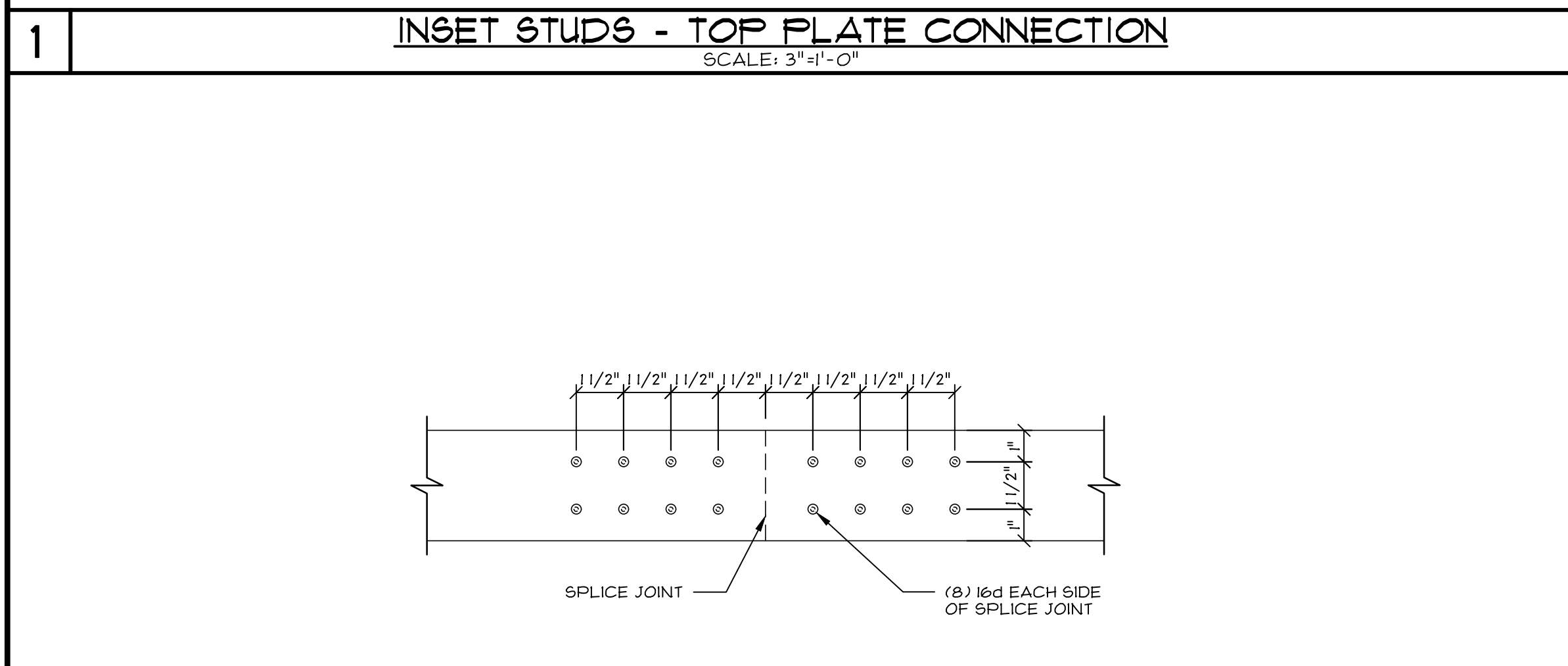
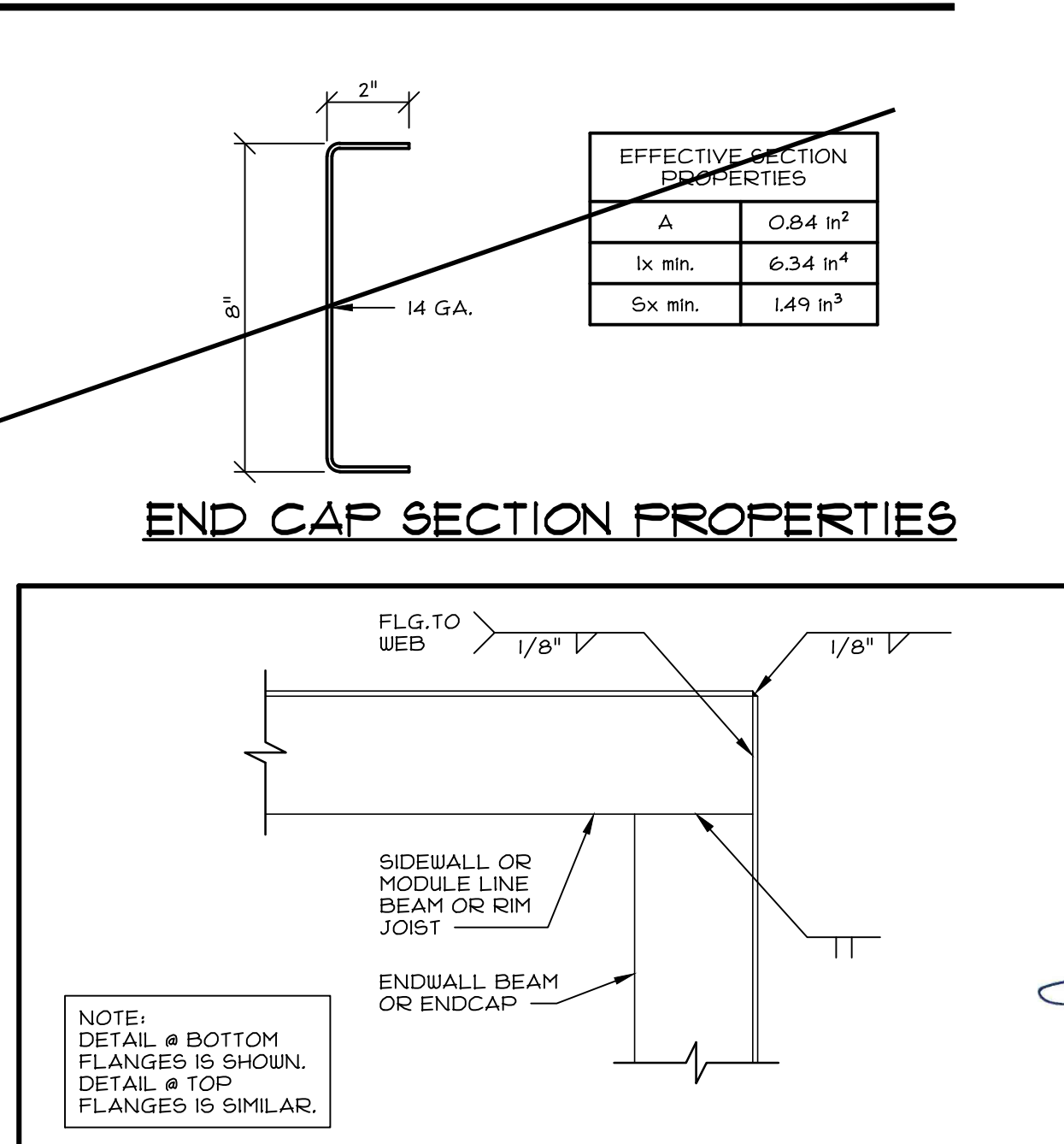
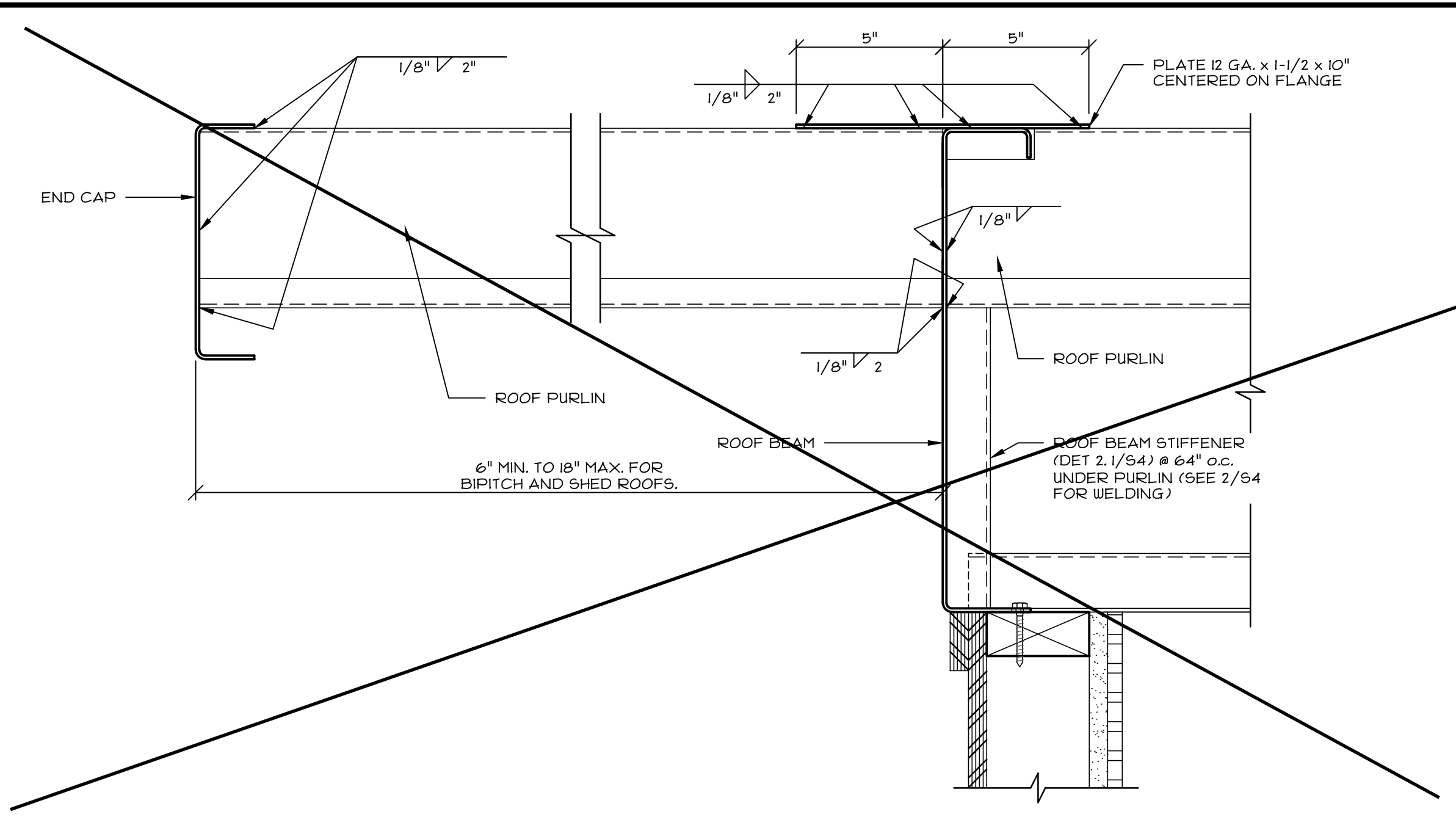
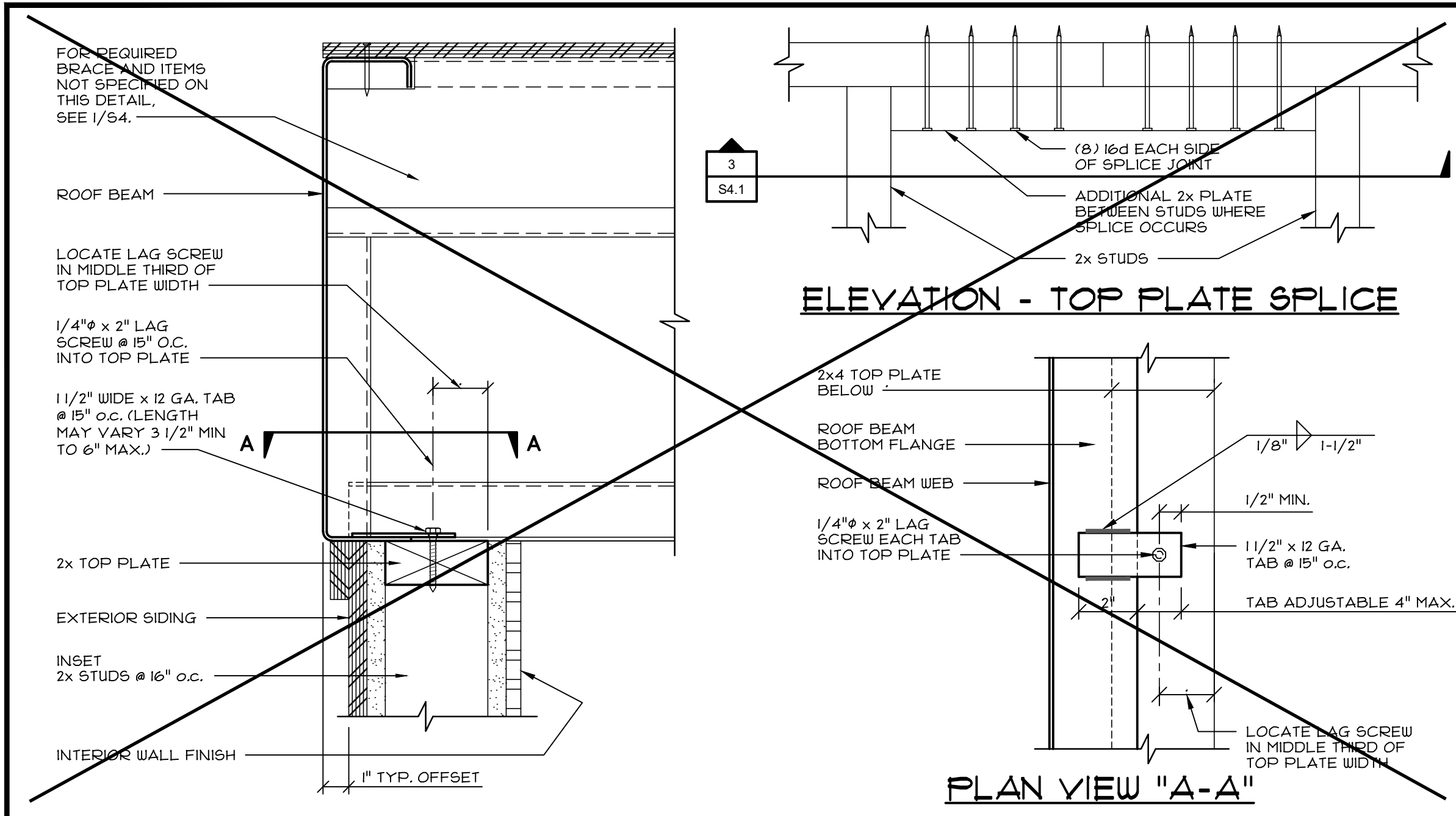
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**S4**

24"x40" TO 120"x40" P.C.

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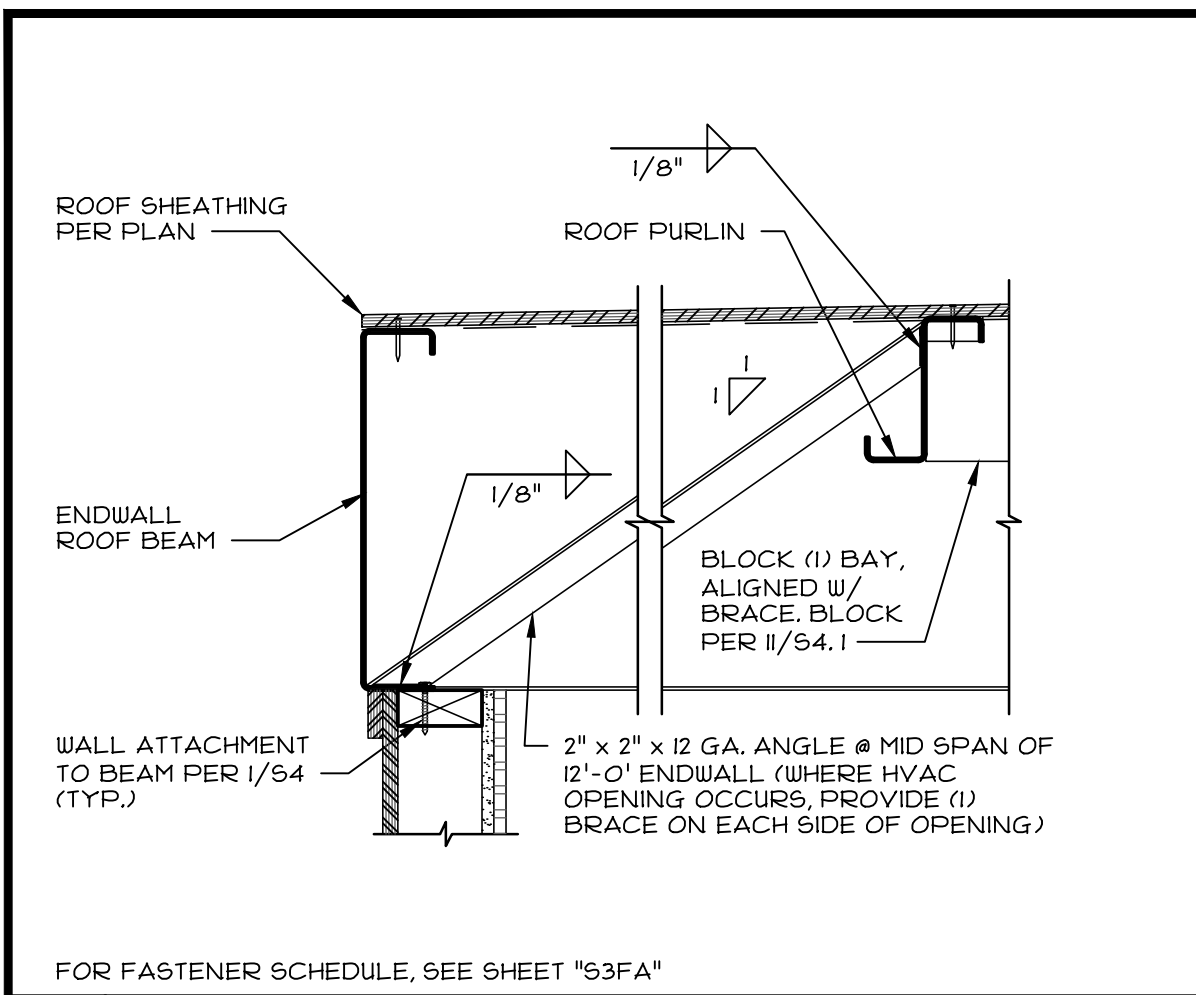
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ROBERTS FERRY ES  
 at  
 ROBERTS FERRY UESD

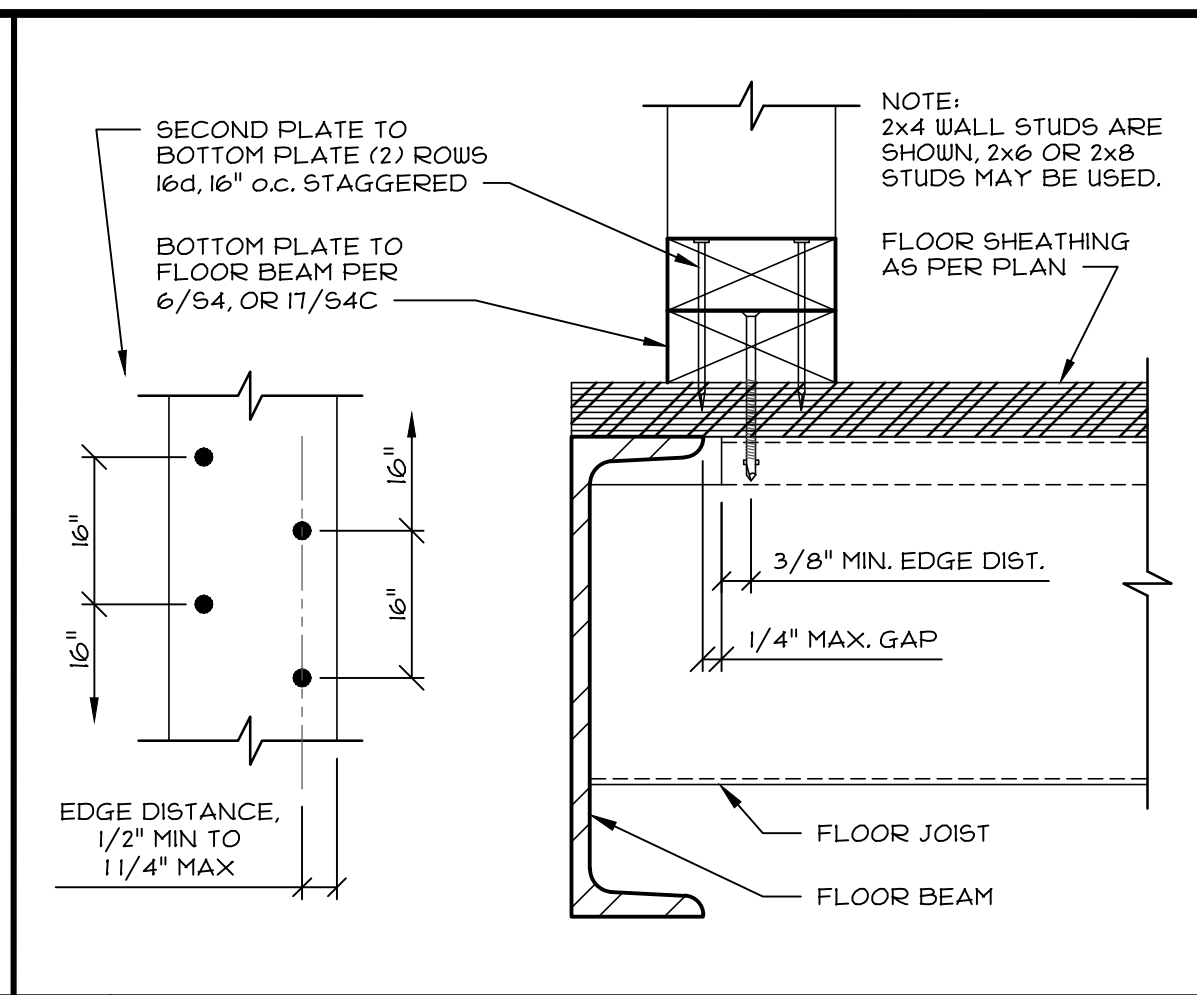
OPTIONAL STRUCTURAL DETAILS

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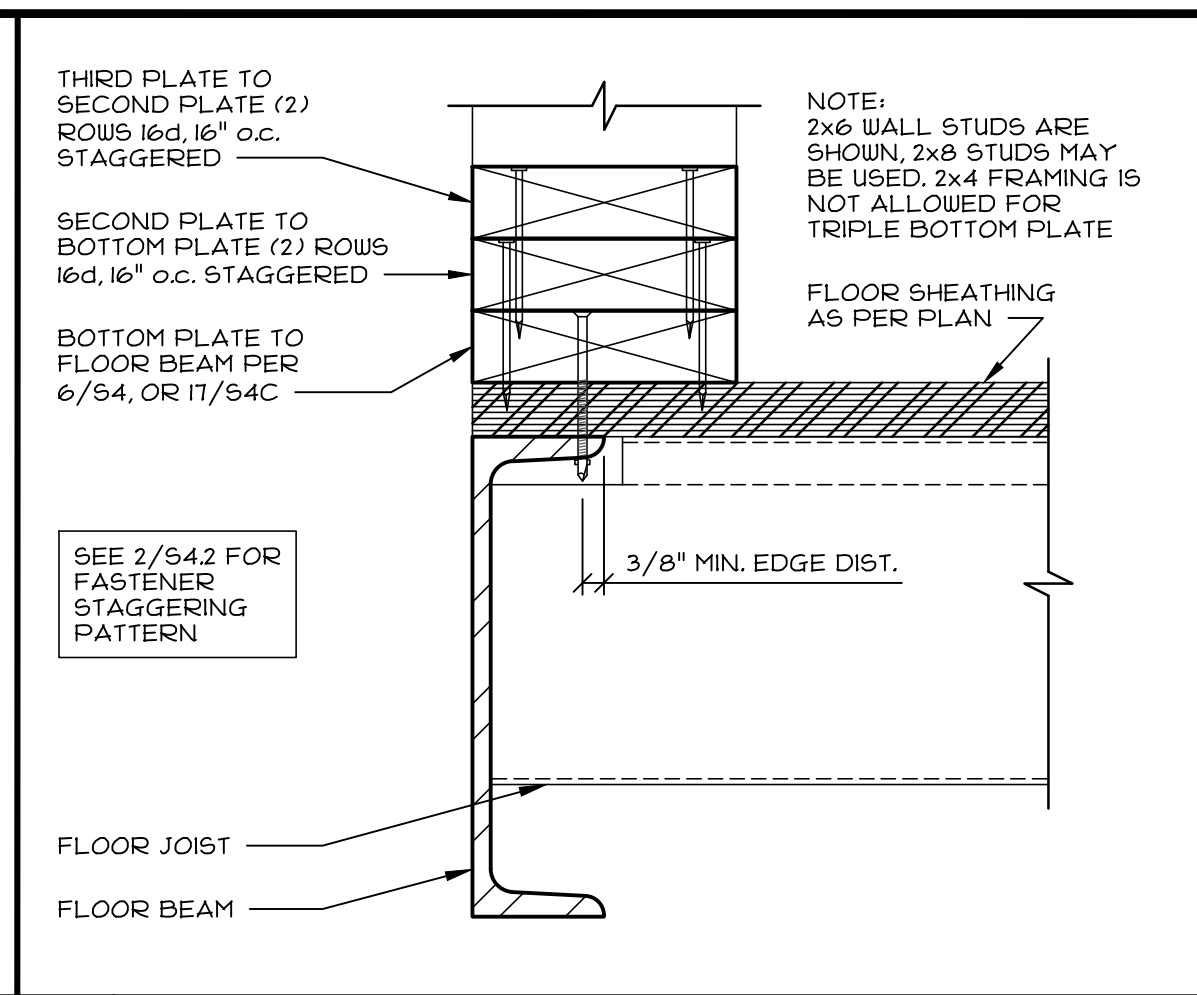




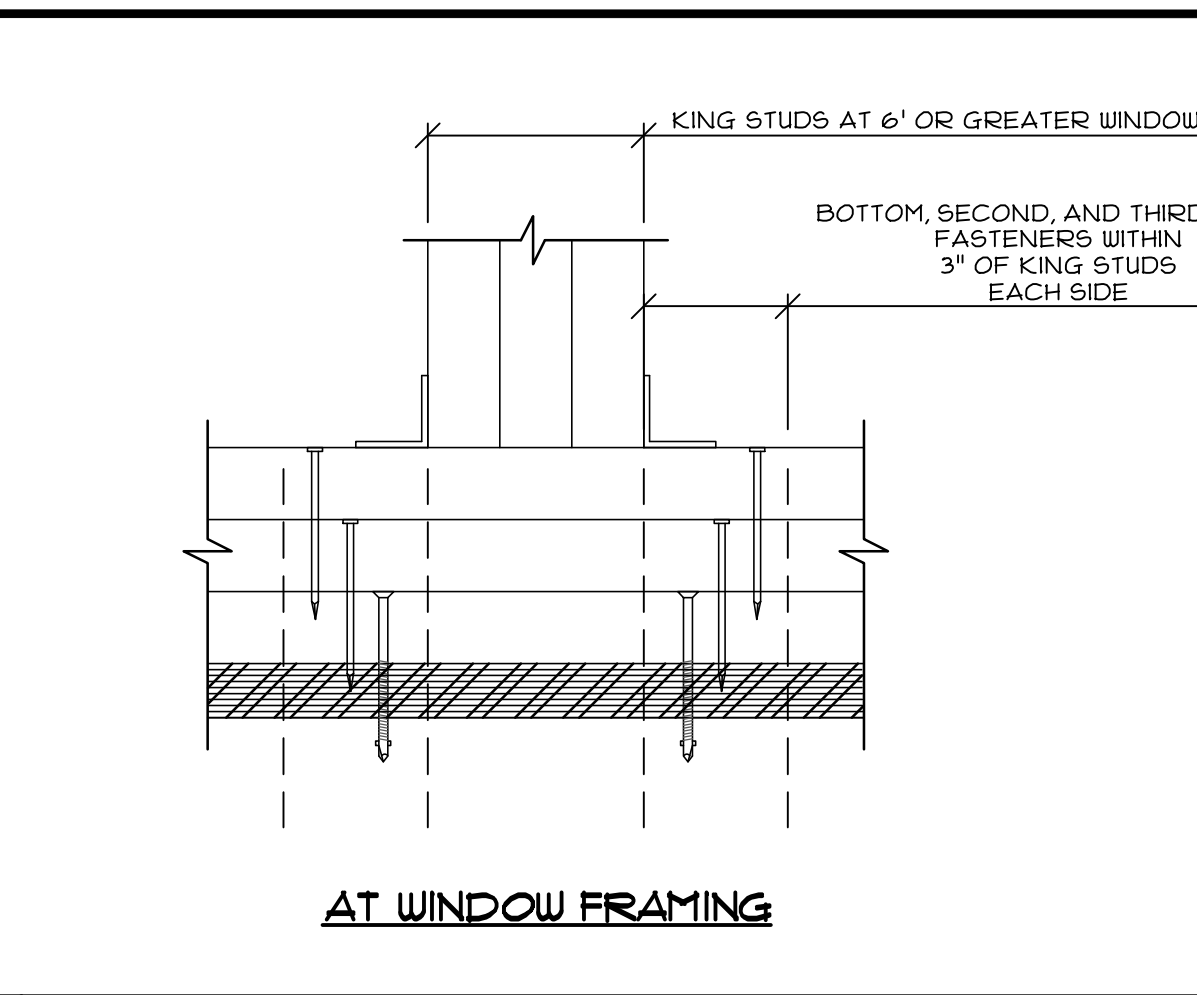
**1** ENDWALL DIAGONAL BRACE  
SCALE: 1/2"=1'-0"



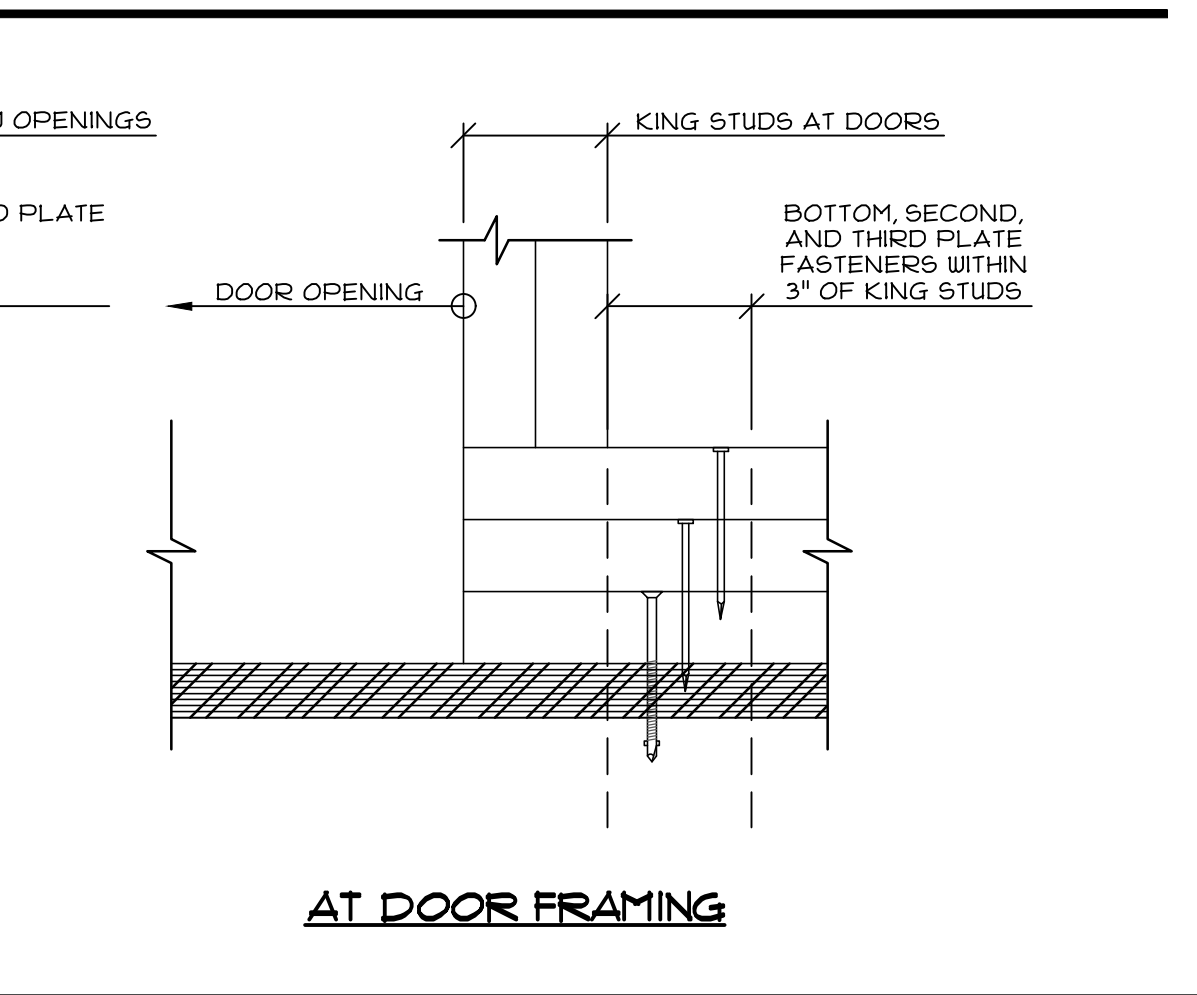
**2** DOUBLE BOTTOM PLATE OPTION  
SCALE: 3/4"=1'-0"



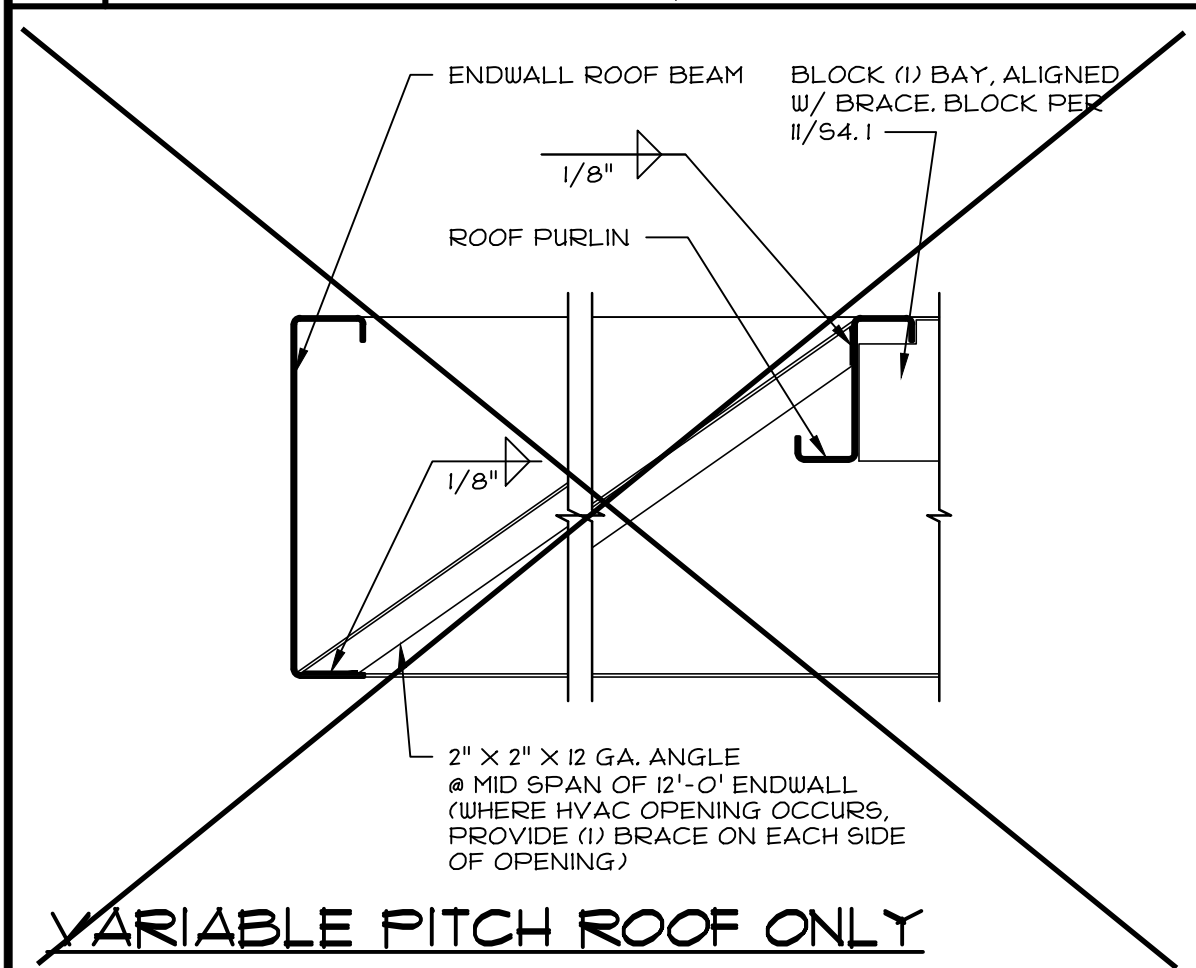
**3** TRIPLE BOTTOM PLATE OPTION  
SCALE: 3/4"=1'-0"



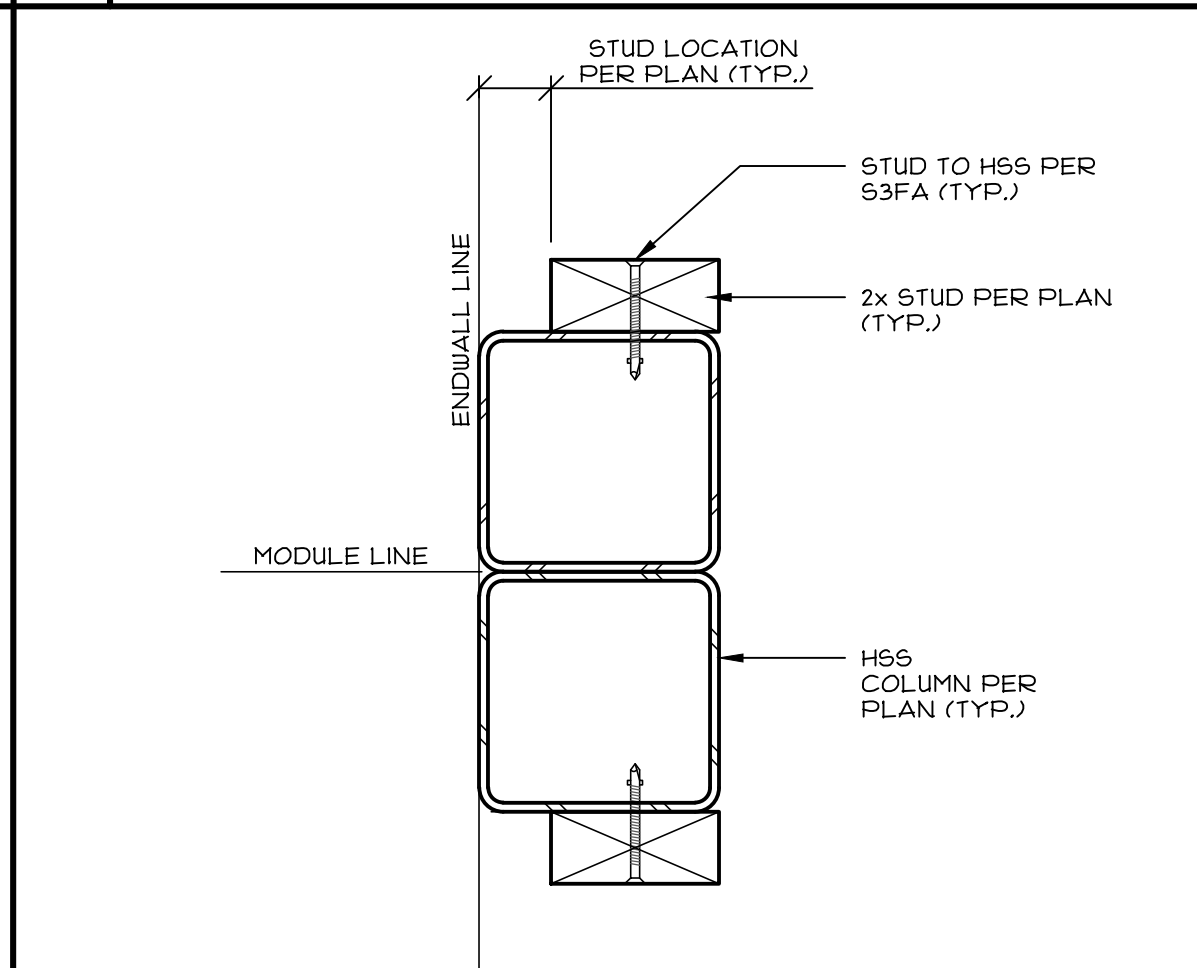
**4** HAND ACCESS HOLE - PLYWOOD  
SCALE: 3/4"=1'-0"



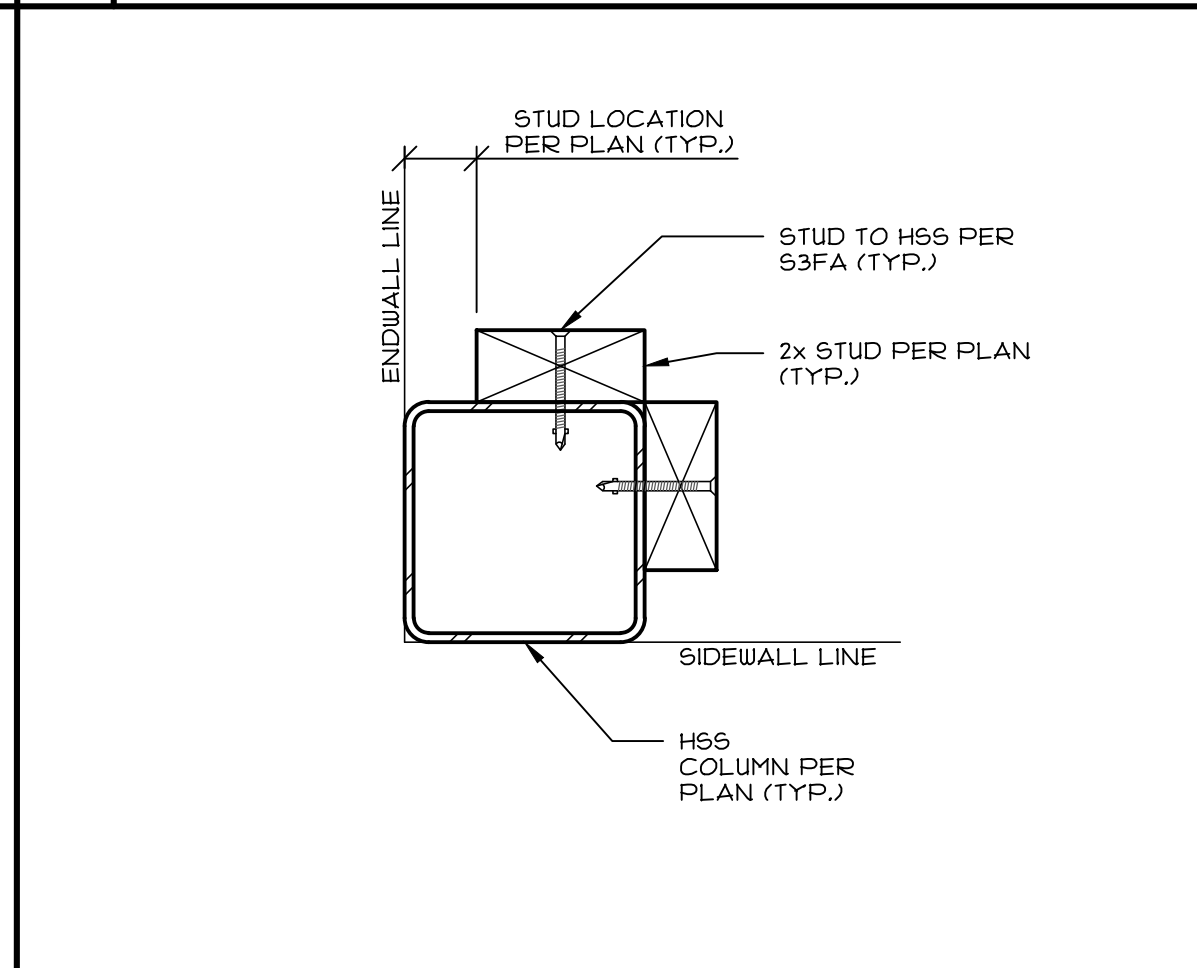
**5** HAND ACCESS HOLE - CONCRETE  
SCALE: 3/4"=1'-0"



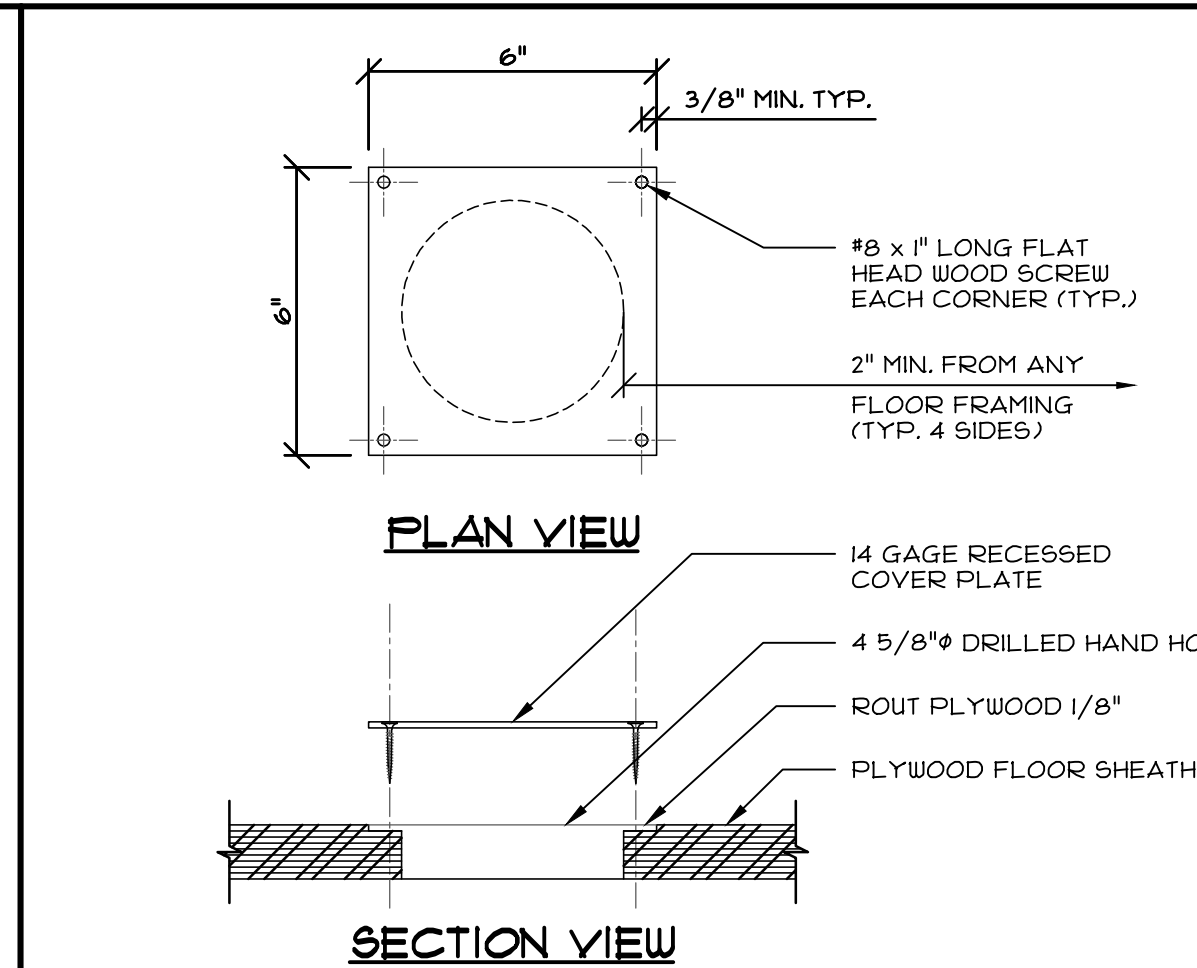
**6** ENDWALL DIAGONAL BRACE  
SCALE: 1/2"=1'-0"



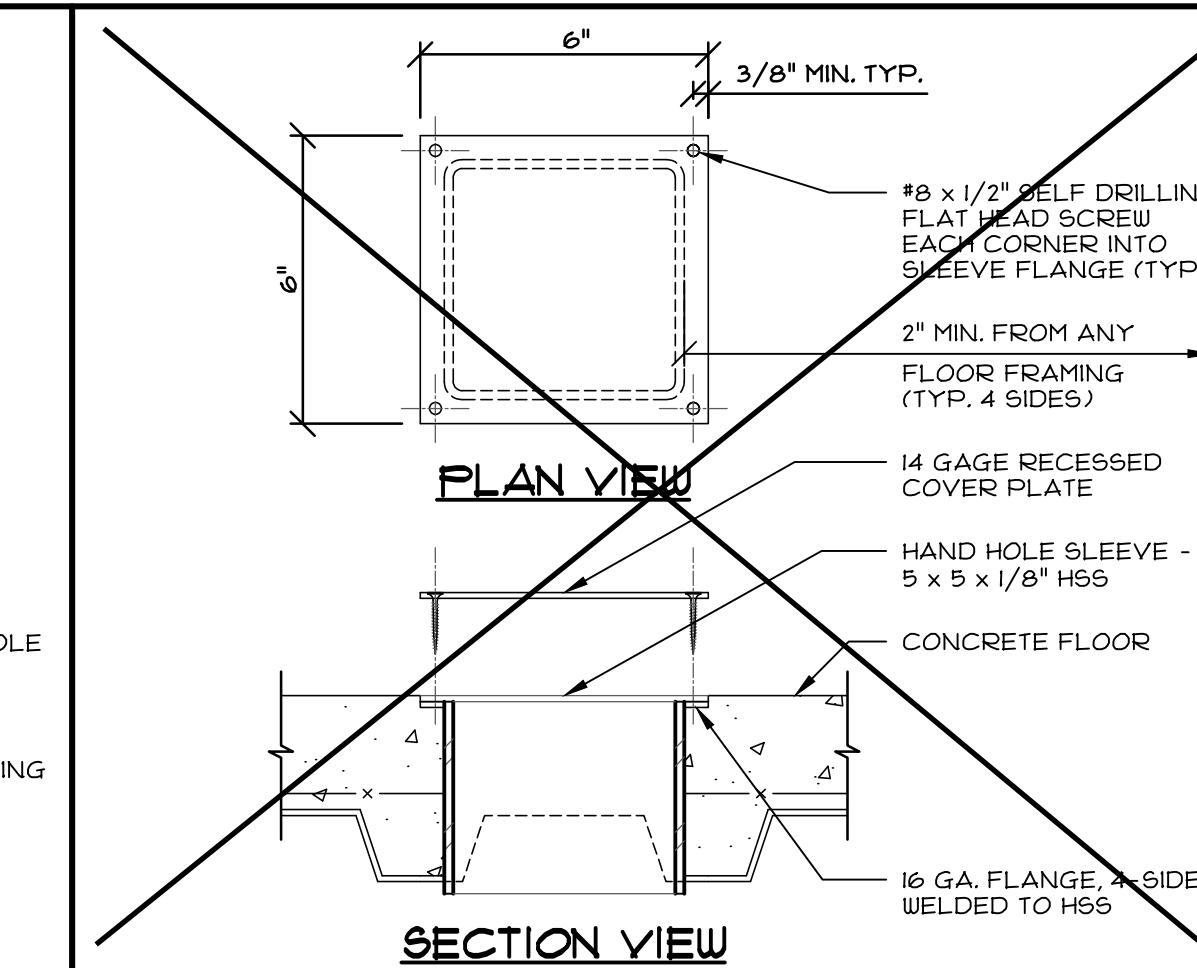
**7** WALL STUD TO HSS @ MOD. LINE  
SCALE: 3/4"=1'-0"



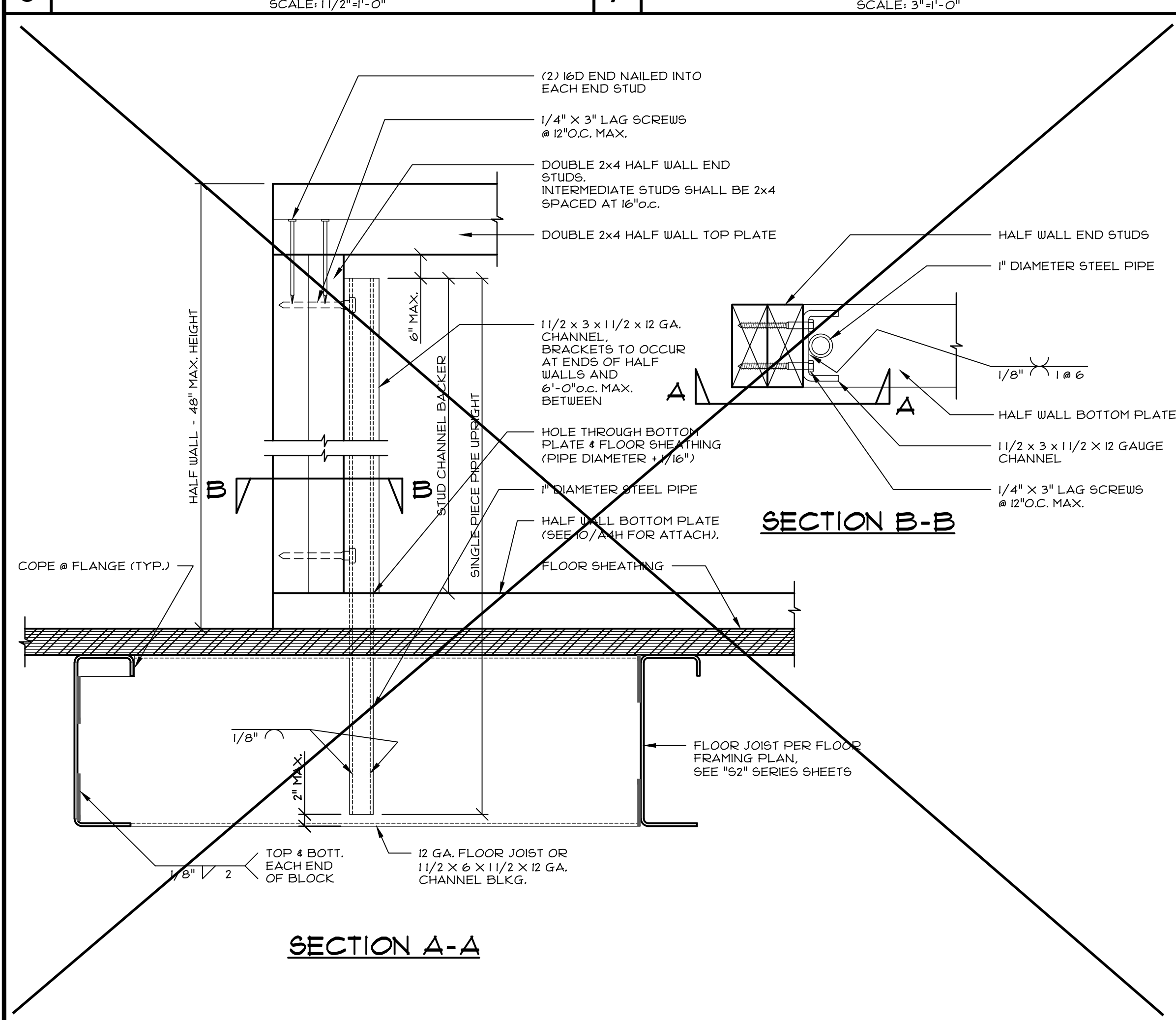
**8** WALL STUD TO HSS @ CORNER  
SCALE: 3/4"=1'-0"



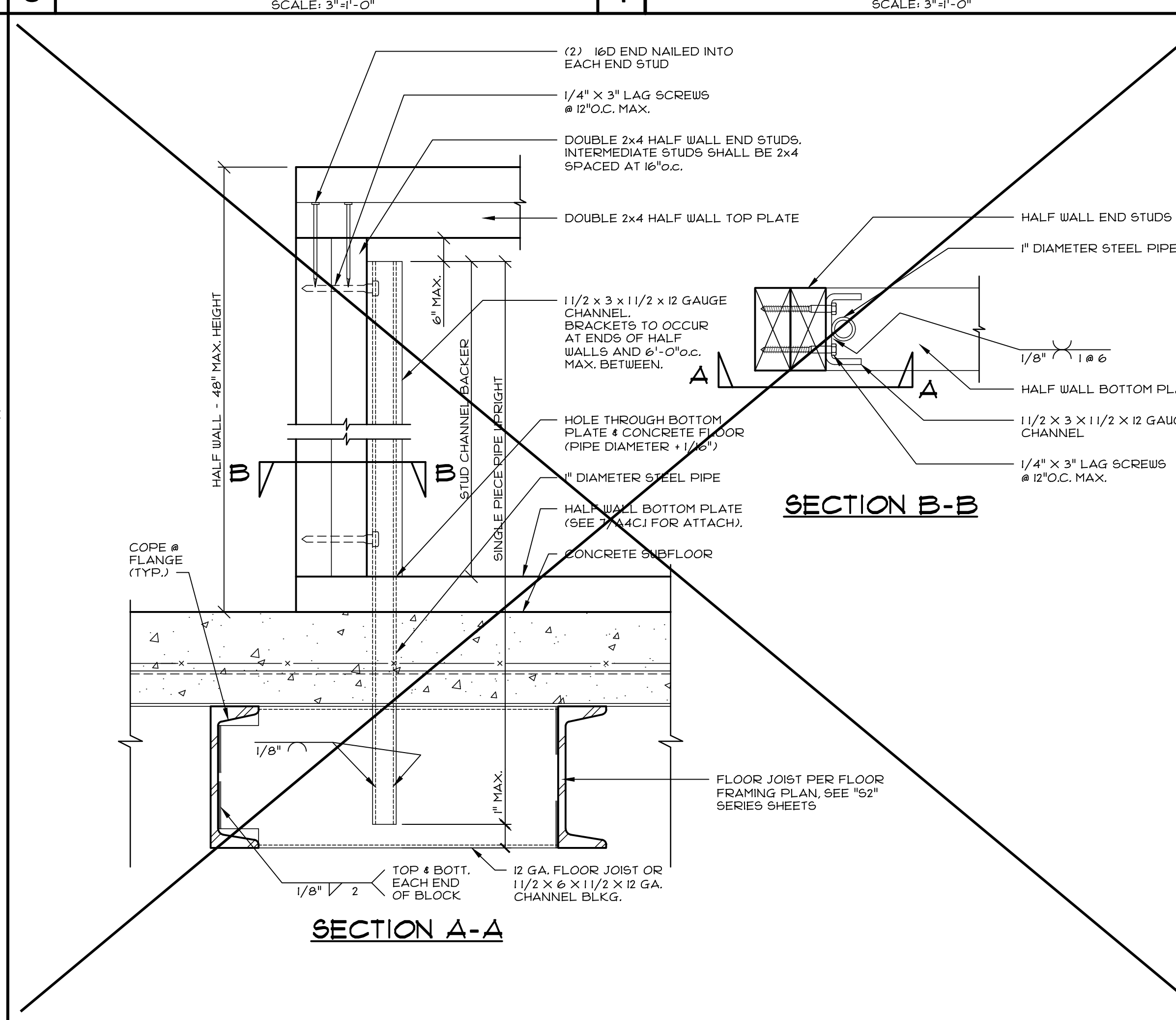
**9** HAND ACCESS HOLE - PLYWOOD  
SCALE: 3/4"=1'-0"



**10** HAND ACCESS HOLE - CONCRETE  
SCALE: 3/4"=1'-0"



**11** HALF WALL STABILIZER BRACKET - PLYWOOD FLOORS  
SCALE: 3/4"=1'-0"



**11.1** HALF WALL STABILIZER BRACKET - CONCRETE FLOORS  
SCALE: 3/4"=1'-0"

**13** SECT. PROP. - SLIP TRACKS  
SCALE: 3/4"=1'-0"

SECTION PROPERTIES	
A	Area
7 1/4"	0.936 in <sup>2</sup>
Ix min.	0.192 in <sup>4</sup>
Sx min.	0.131 in <sup>3</sup>
Iy min.	6.049 in <sup>4</sup>
Sy min.	1.430 in <sup>3</sup>

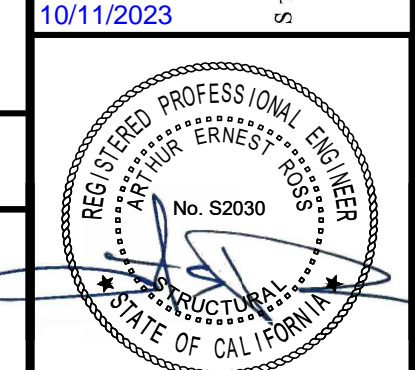
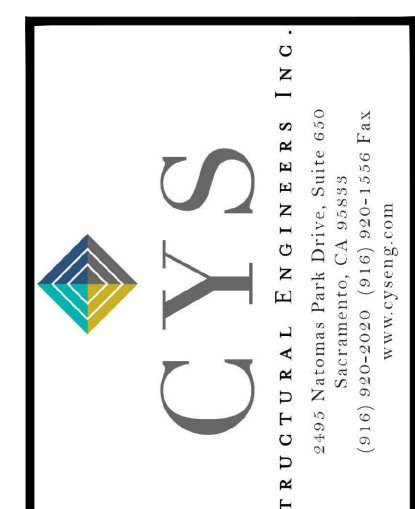
SECTION PROPERTIES	
A	Area
5 1/2"	0.811 in <sup>2</sup>
Ix min.	0.202 in <sup>4</sup>
Sx min.	0.139 in <sup>3</sup>
Iy min.	3.156 in <sup>4</sup>
Sy min.	0.956 in <sup>3</sup>

EFFECTIVE SECTION PROPERTIES	
A	Area
3 1/2"	0.669 in <sup>2</sup>
Ix min.	0.217 in <sup>4</sup>
Sx min.	0.150 in <sup>3</sup>
Iy min.	1.129 in <sup>4</sup>
Sy min.	0.511 in <sup>3</sup>

**13** SECT. PROP. - SLIP TRACKS  
SCALE: 3/4"=1'-0"

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ROBERTS FERRY UESD

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STRUCTURAL DETAILS

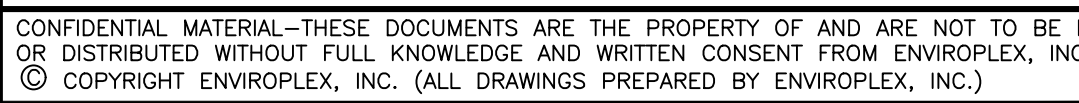
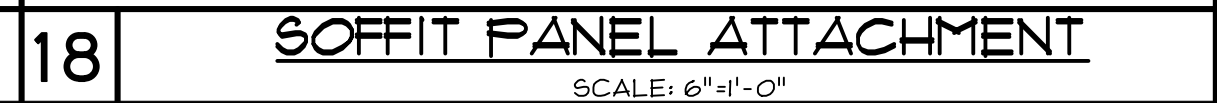
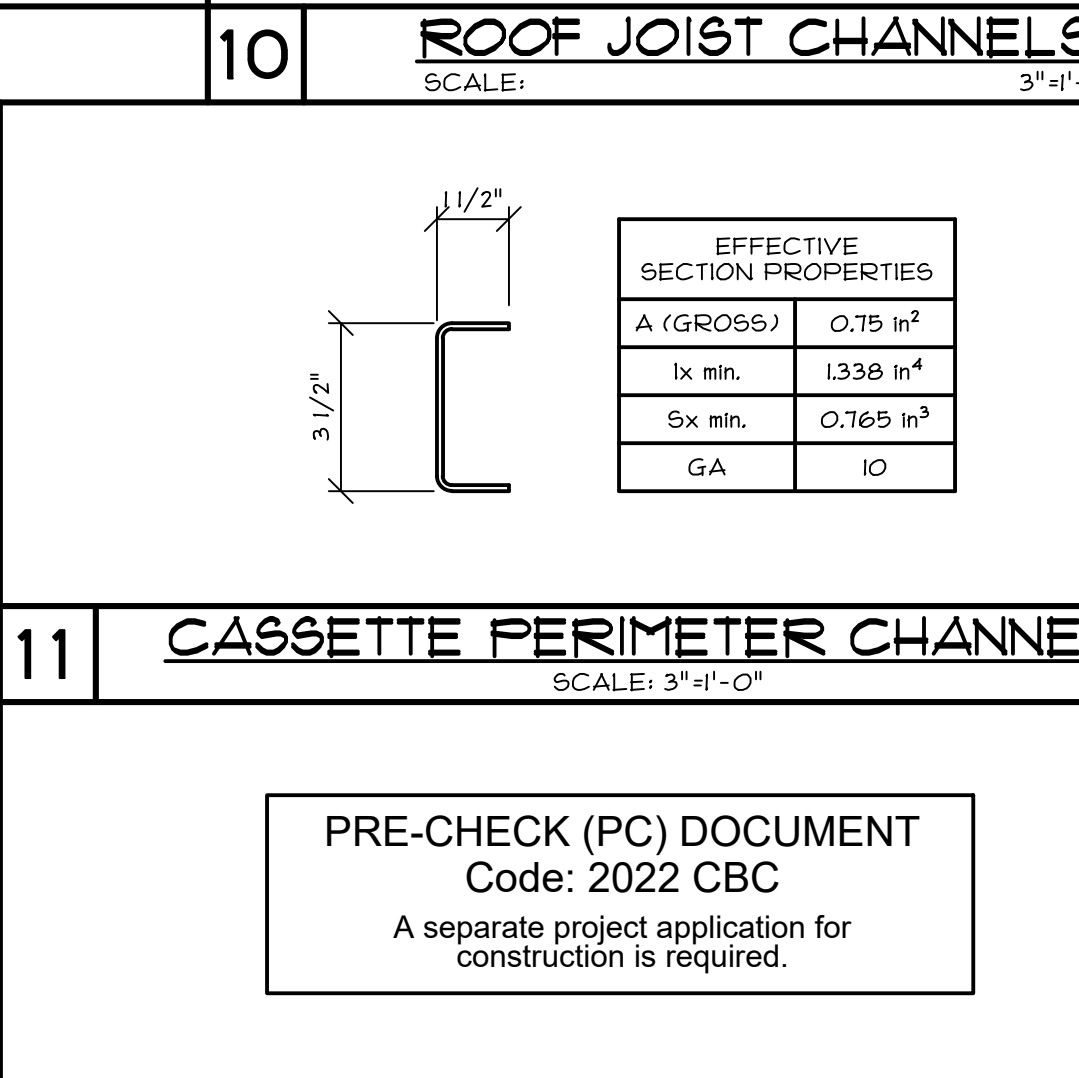
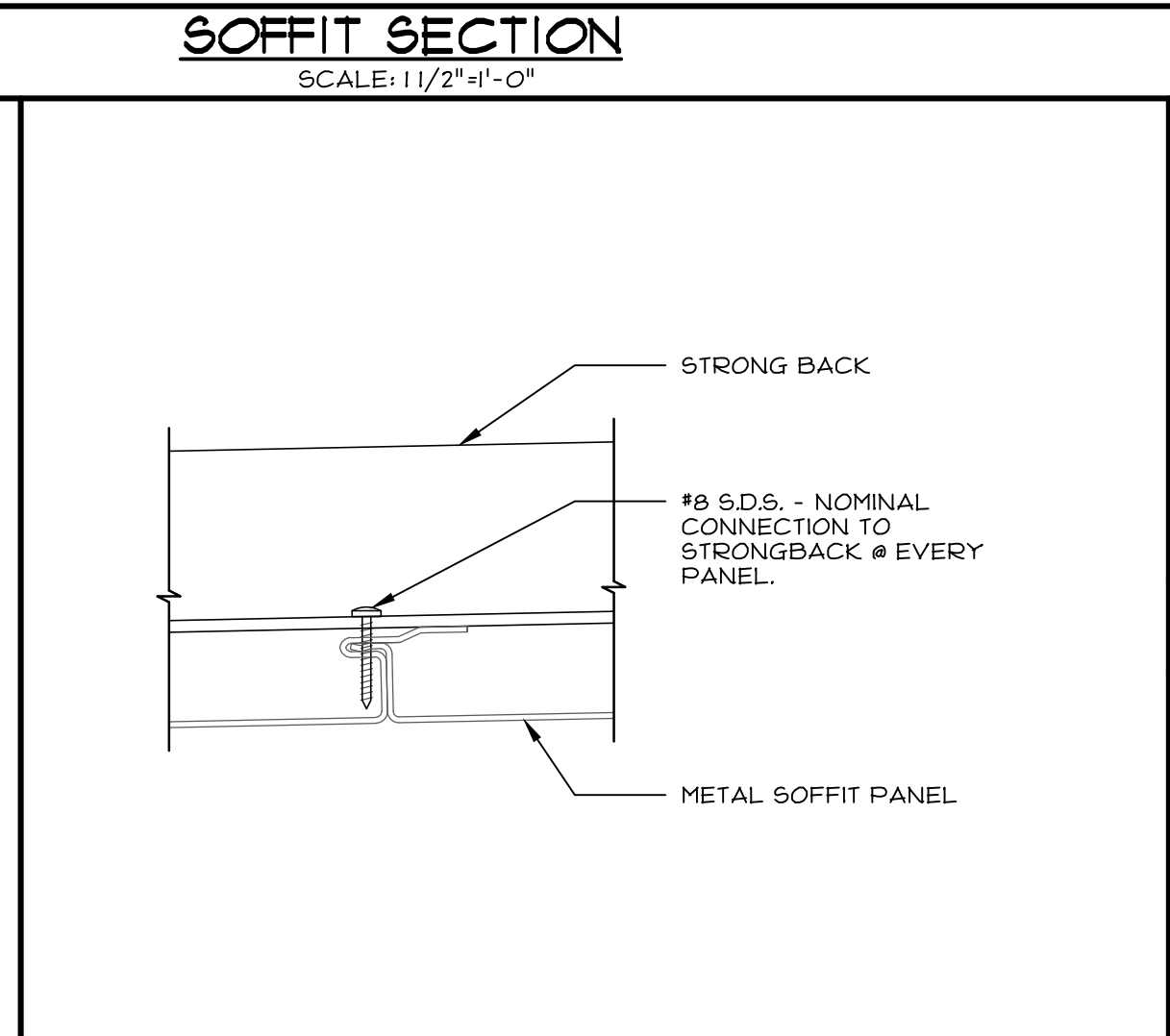
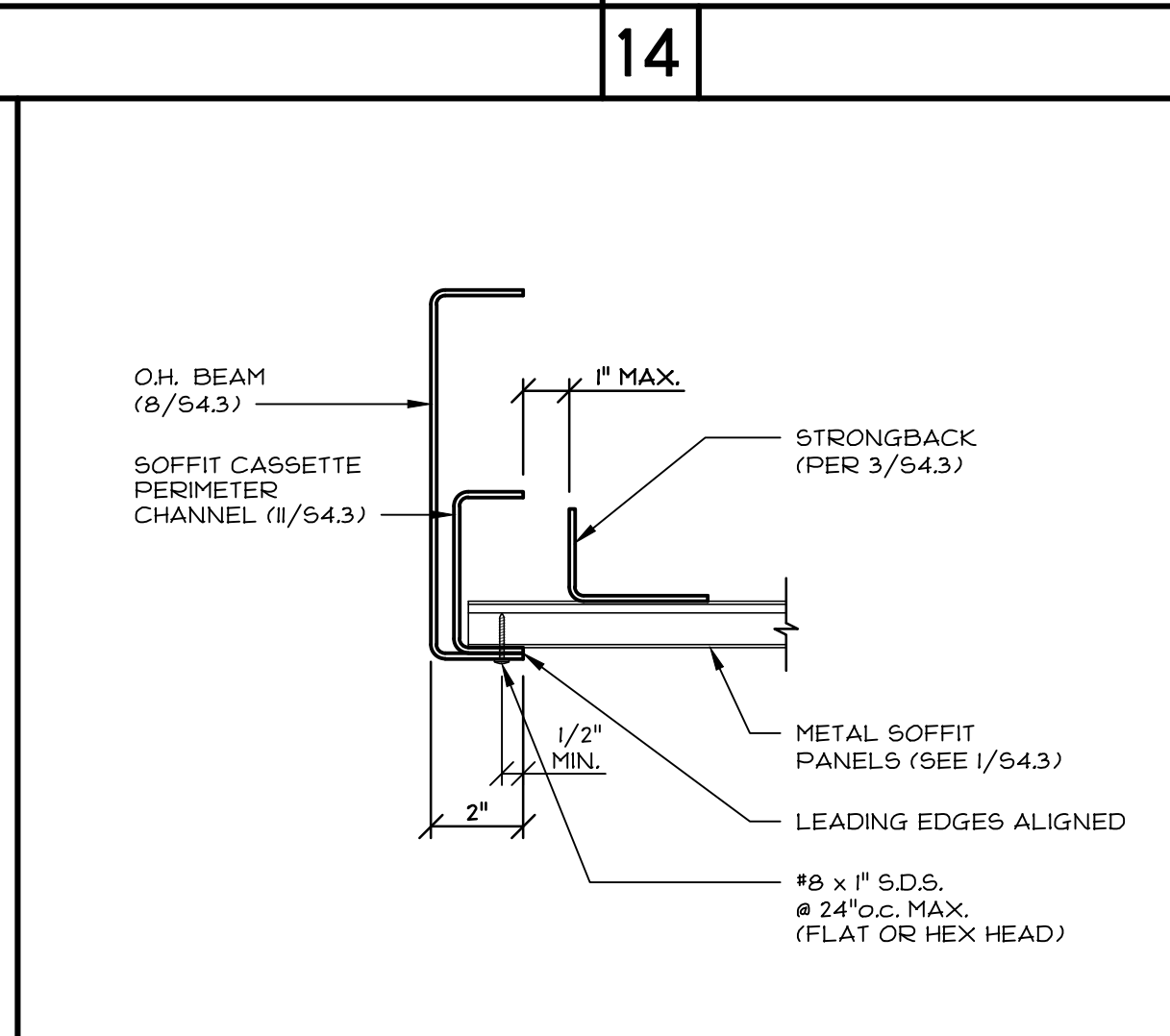
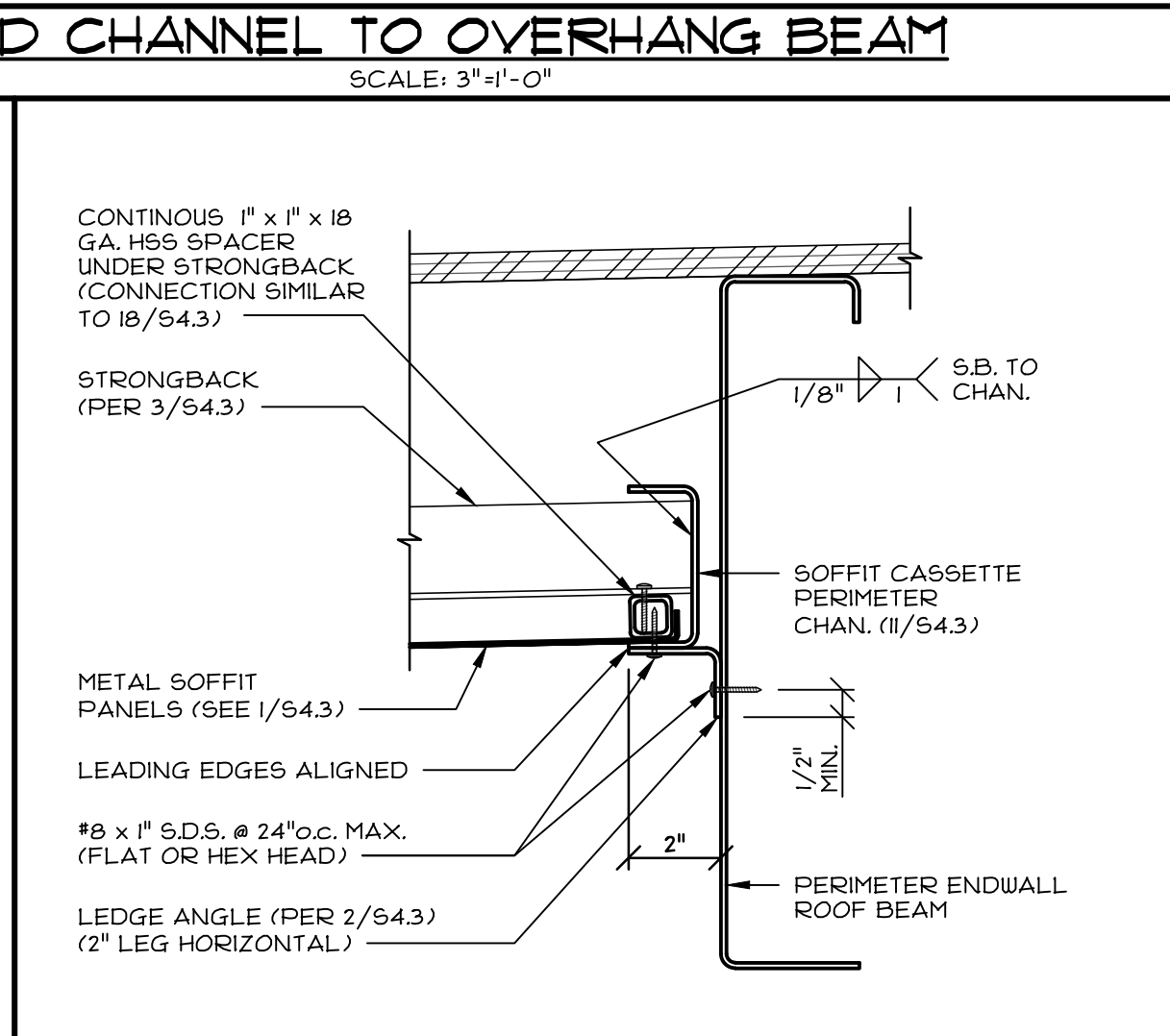
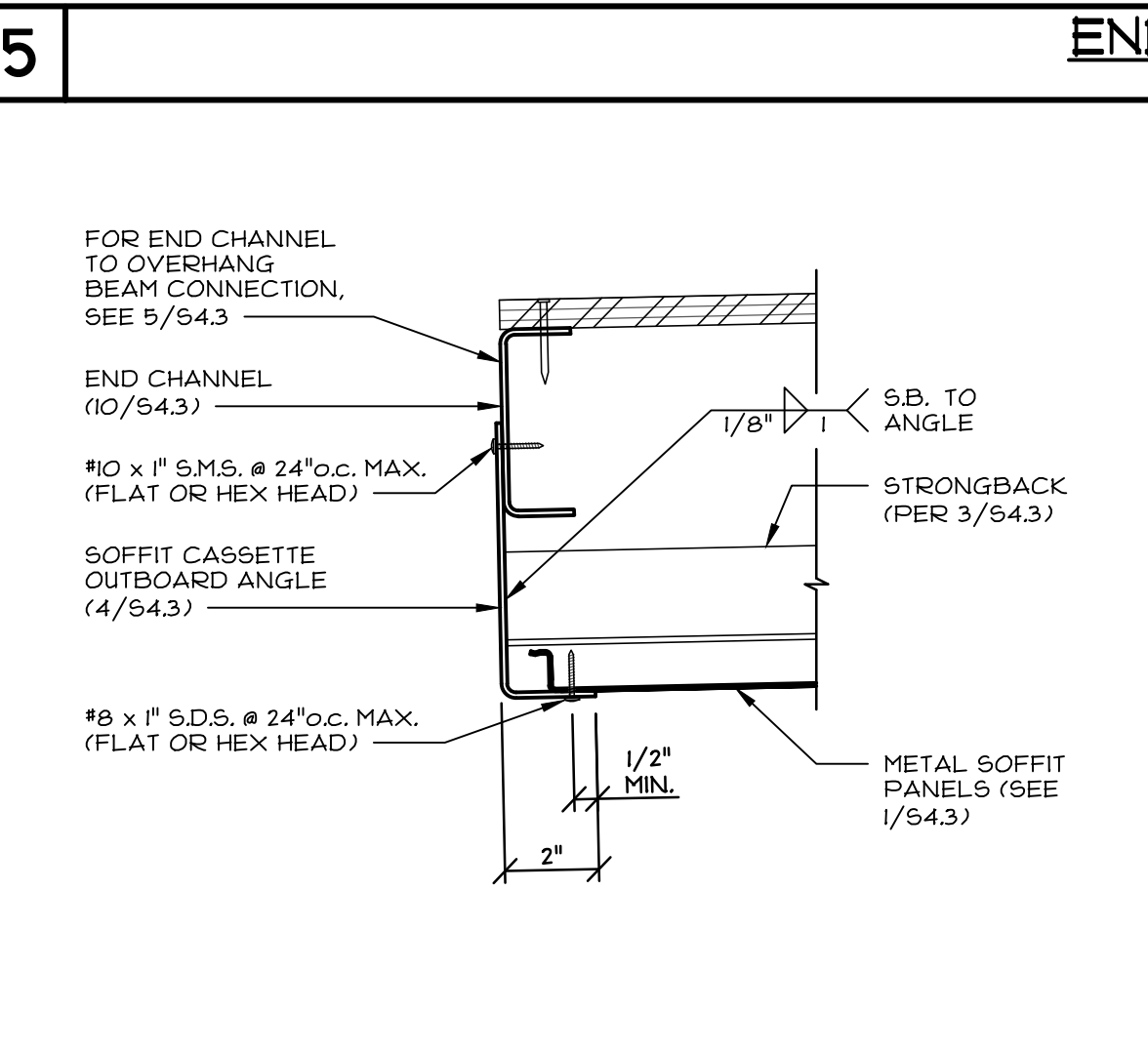
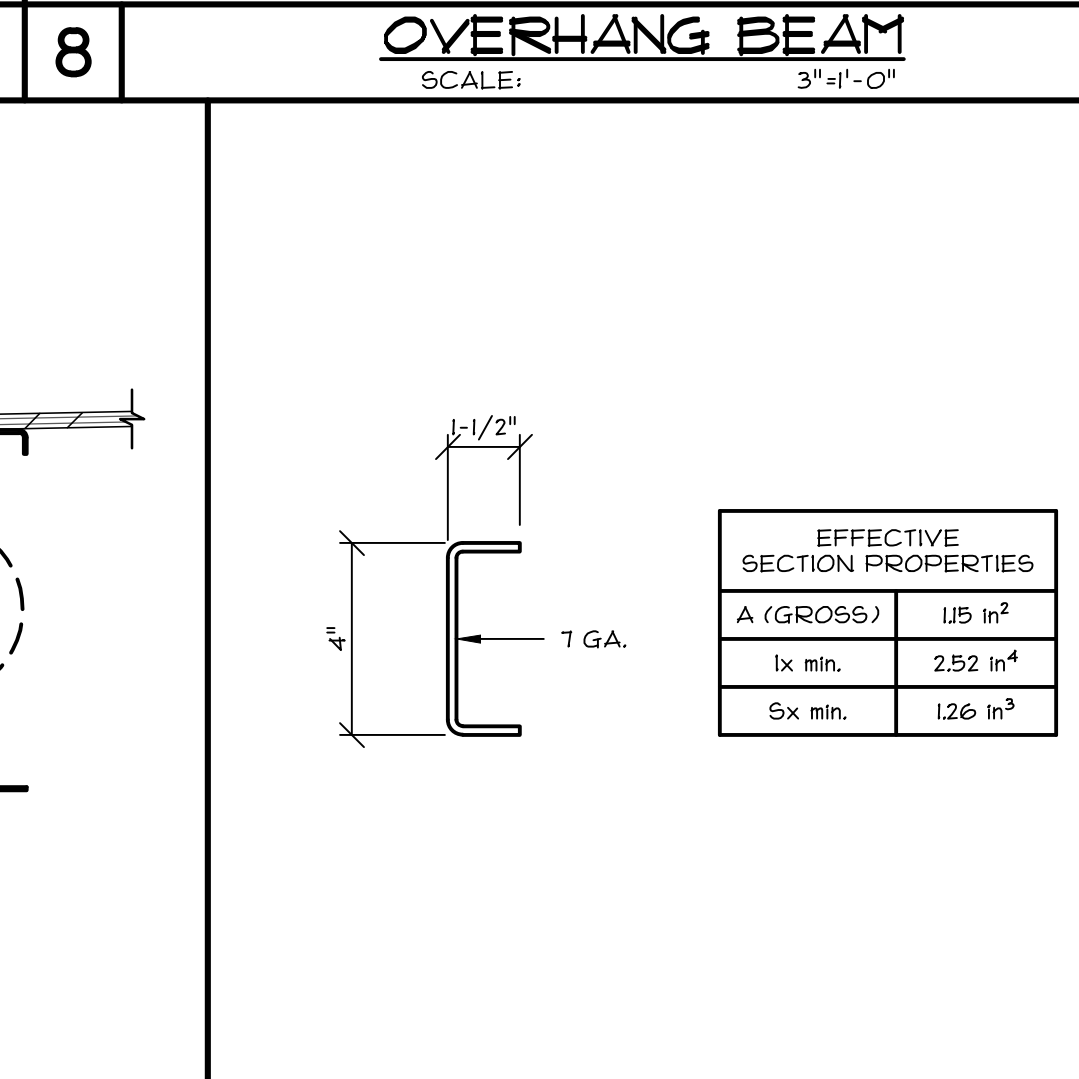
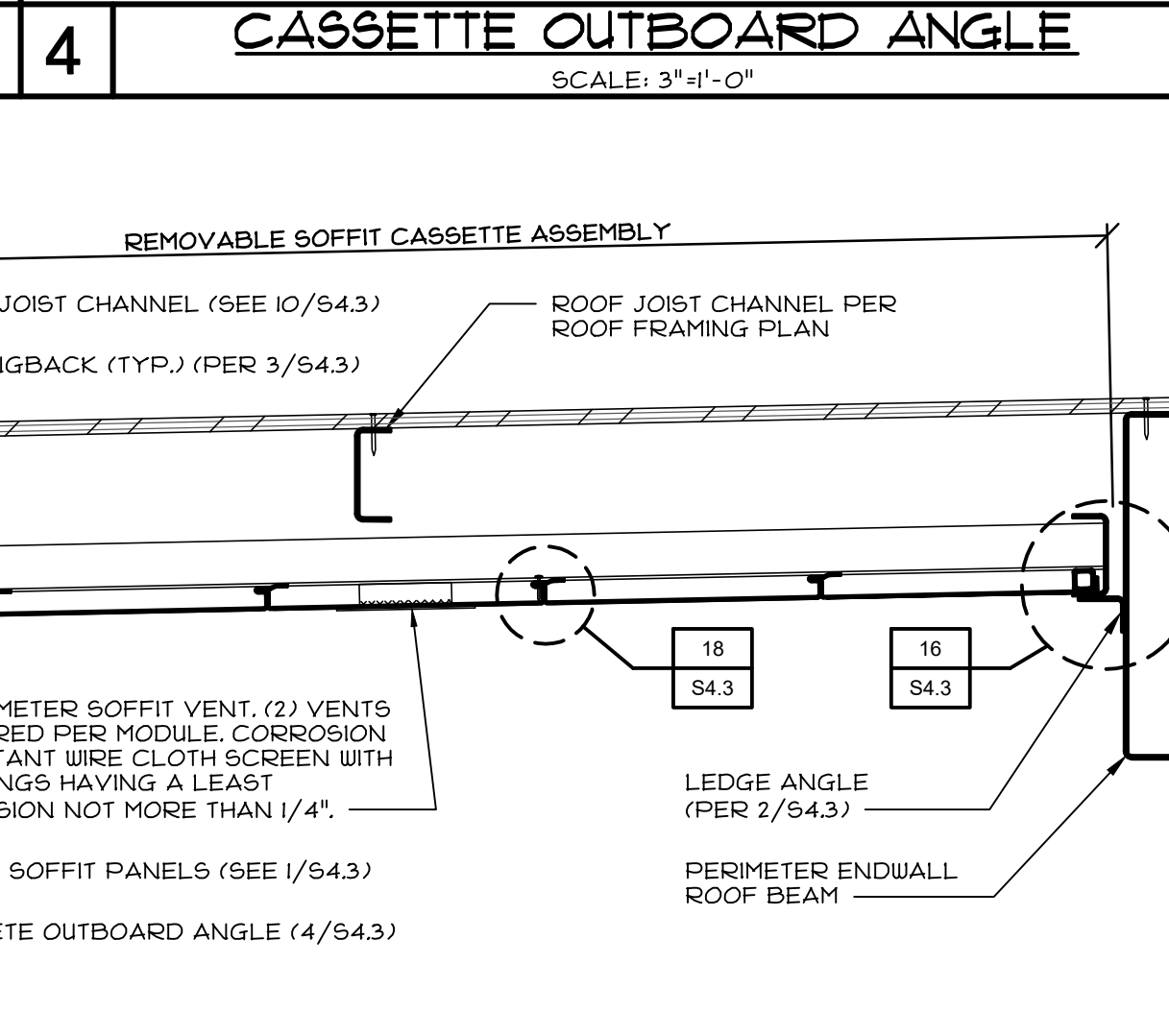
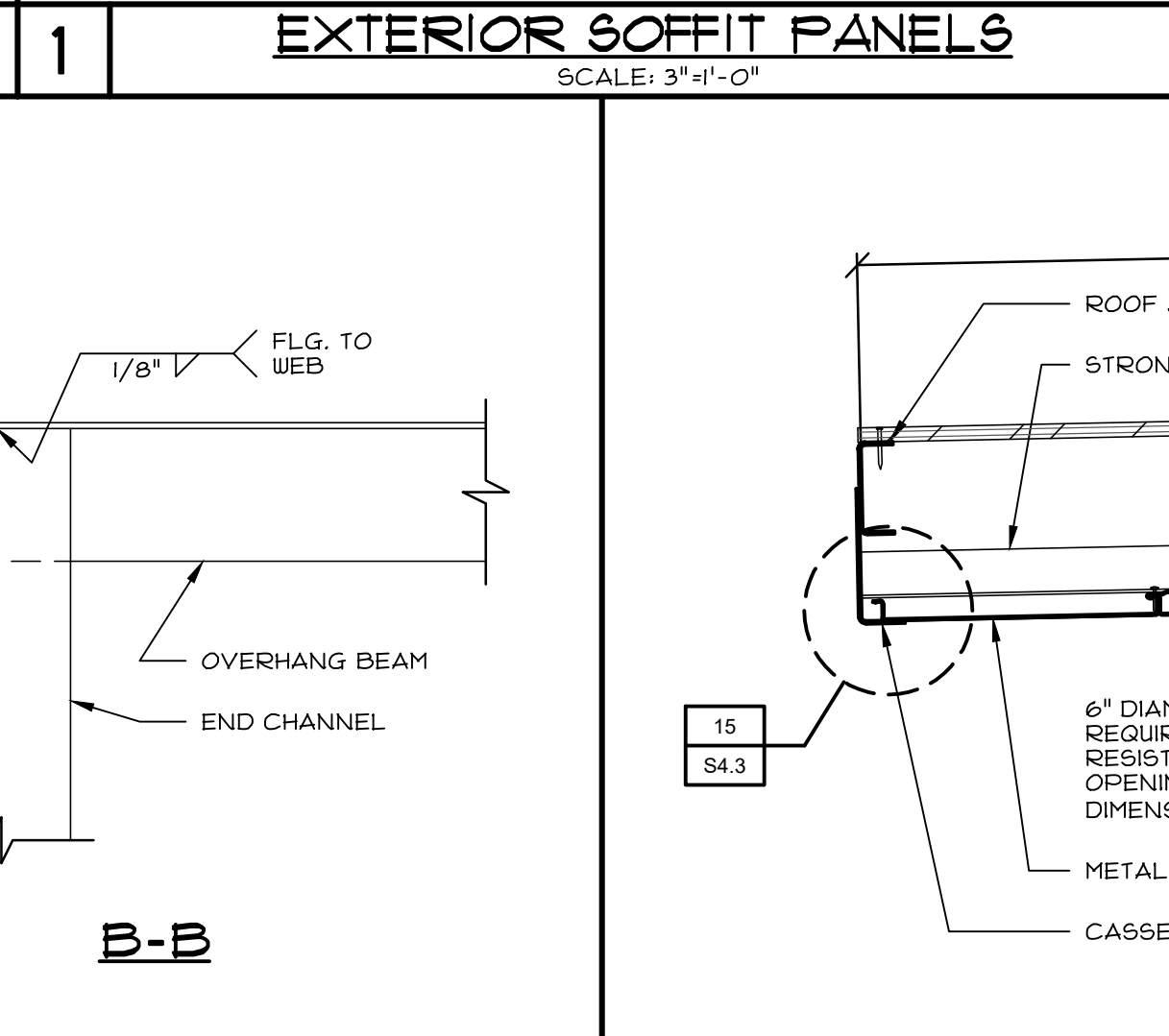
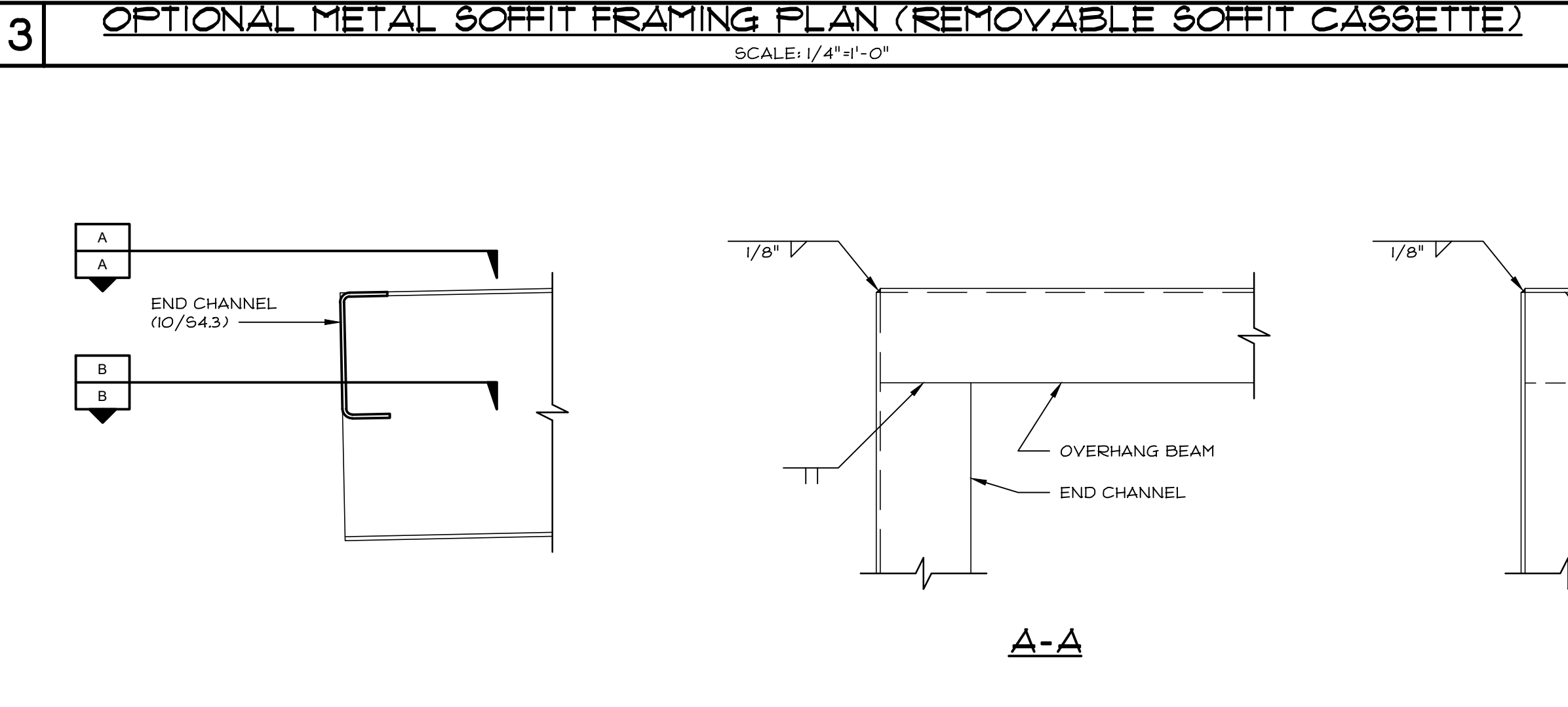
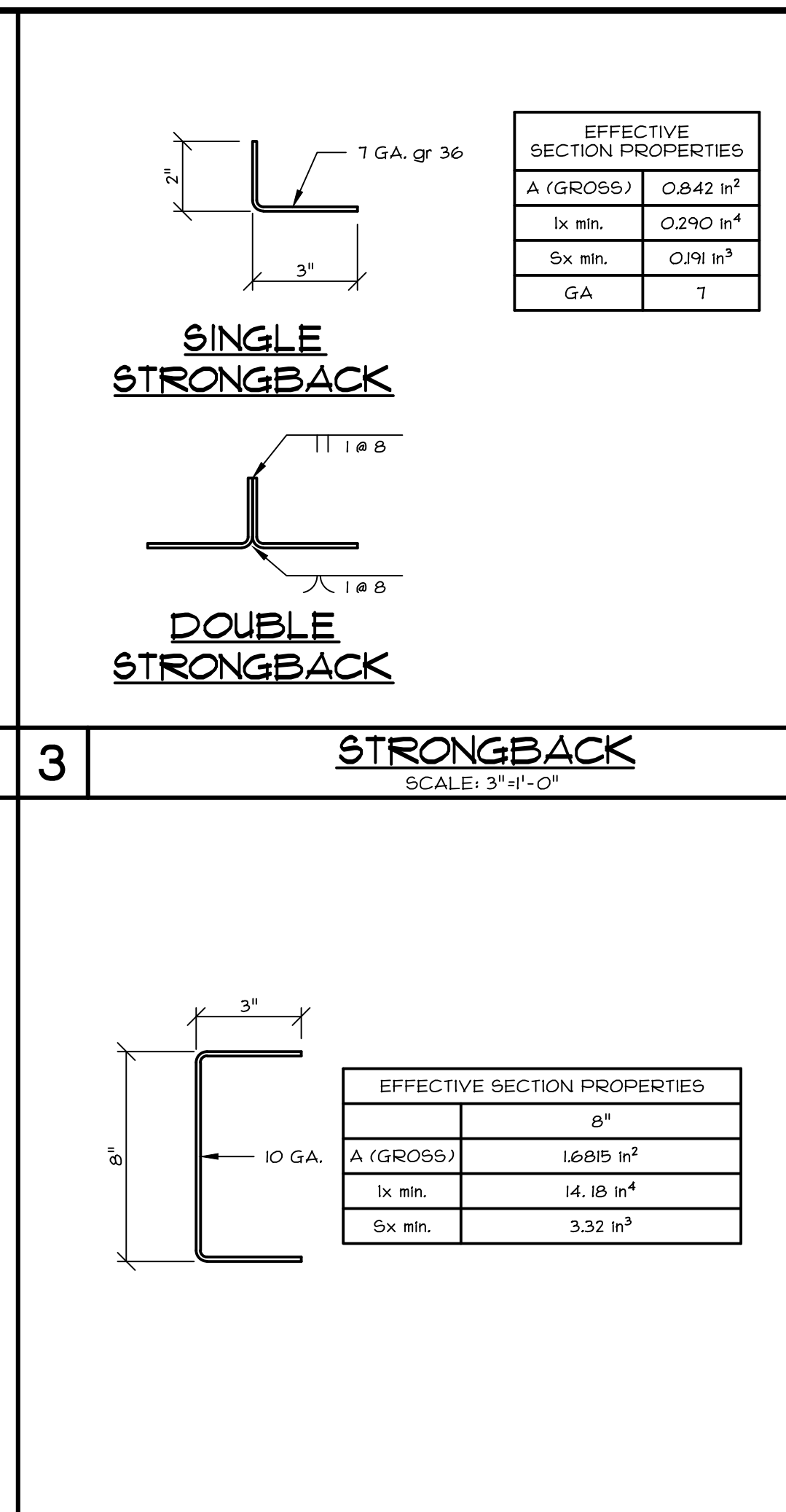
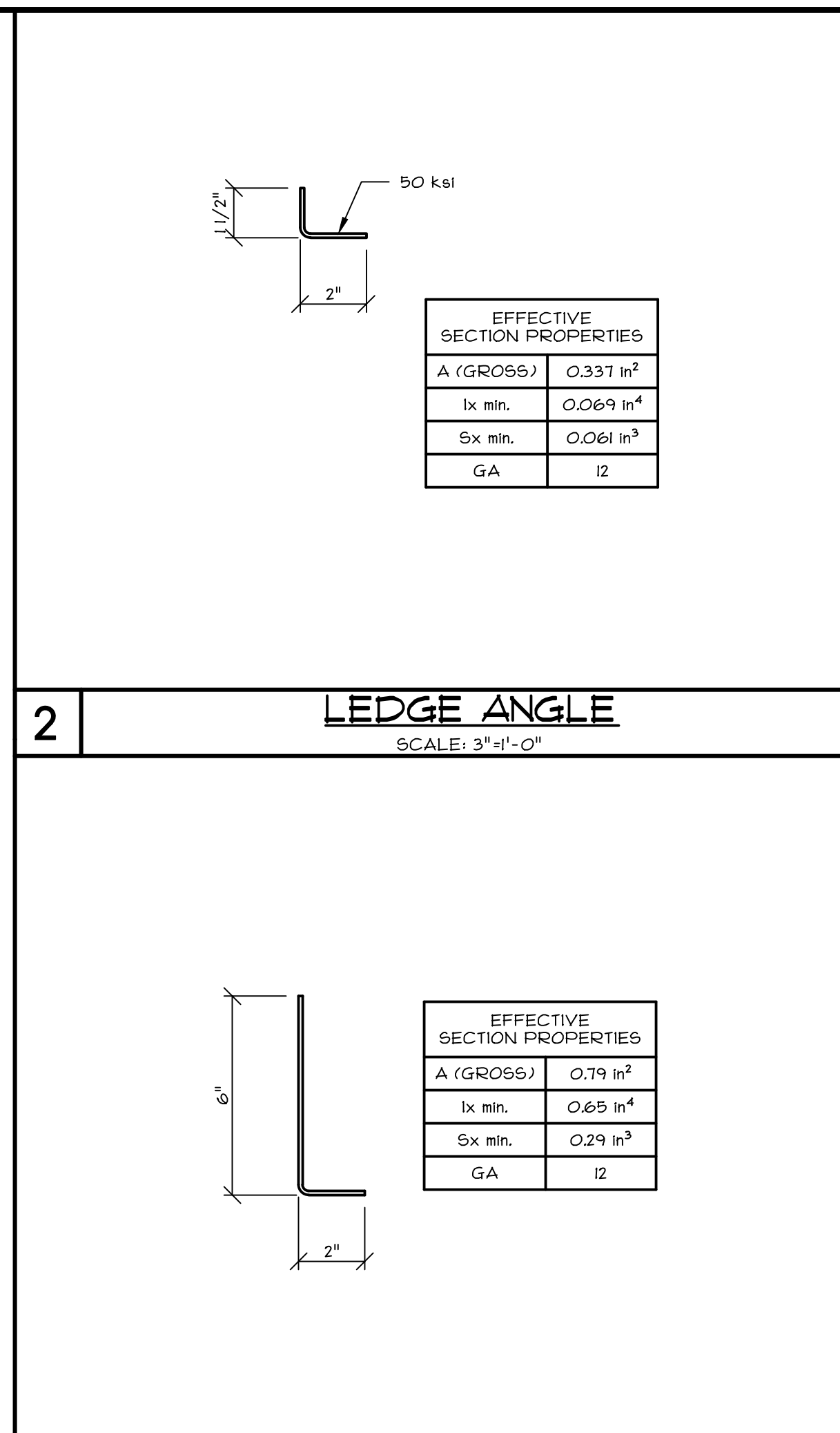
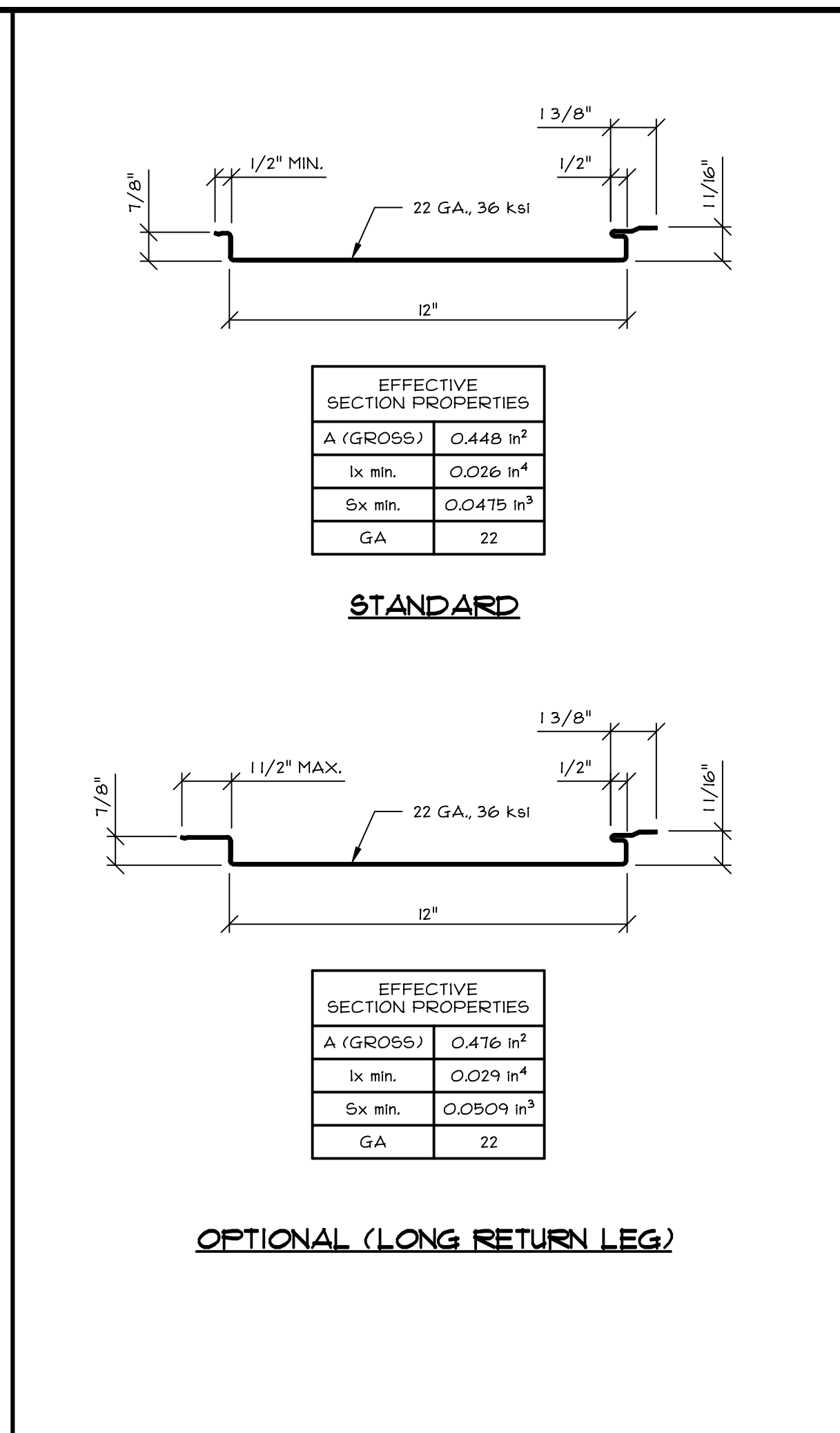
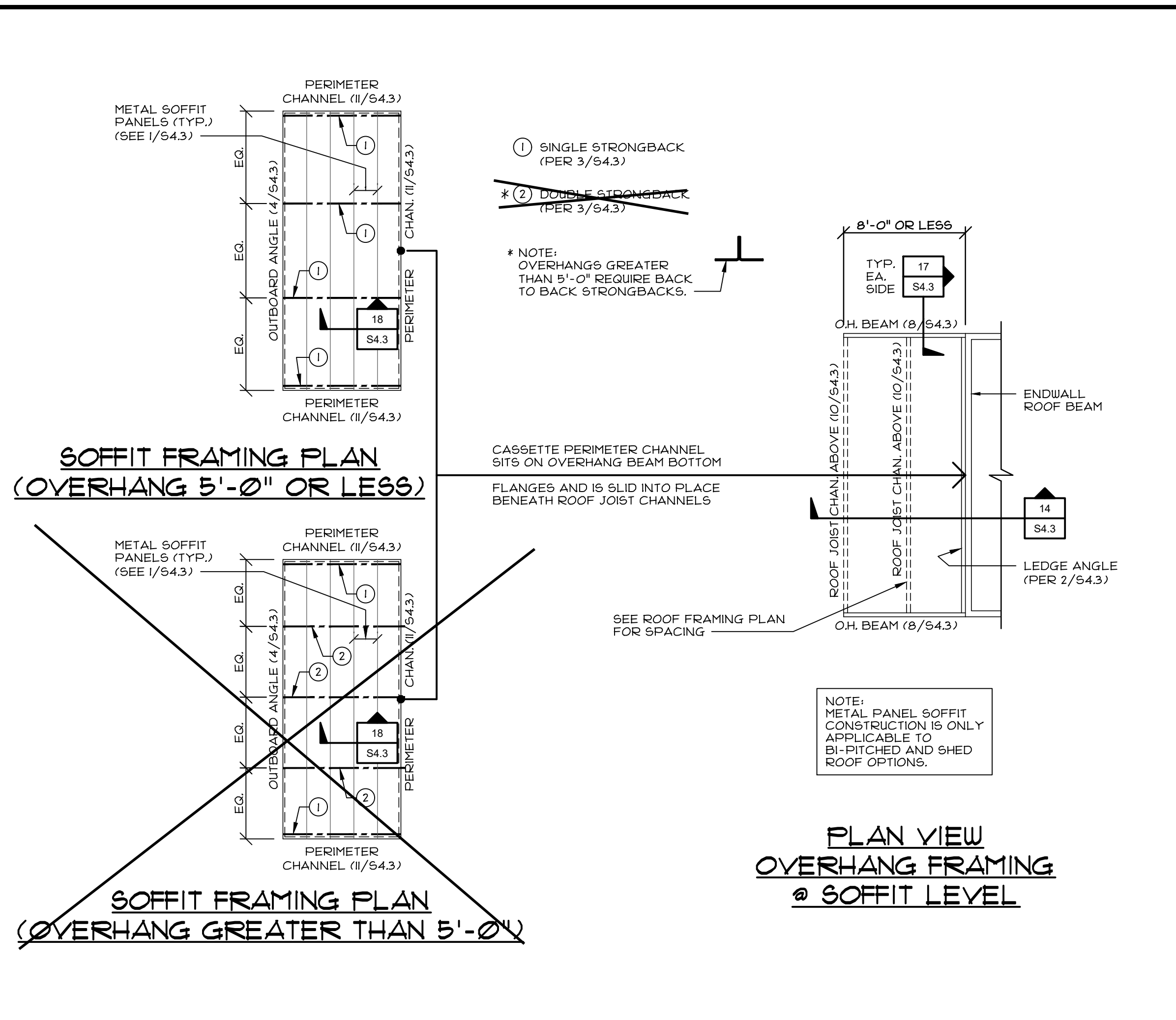
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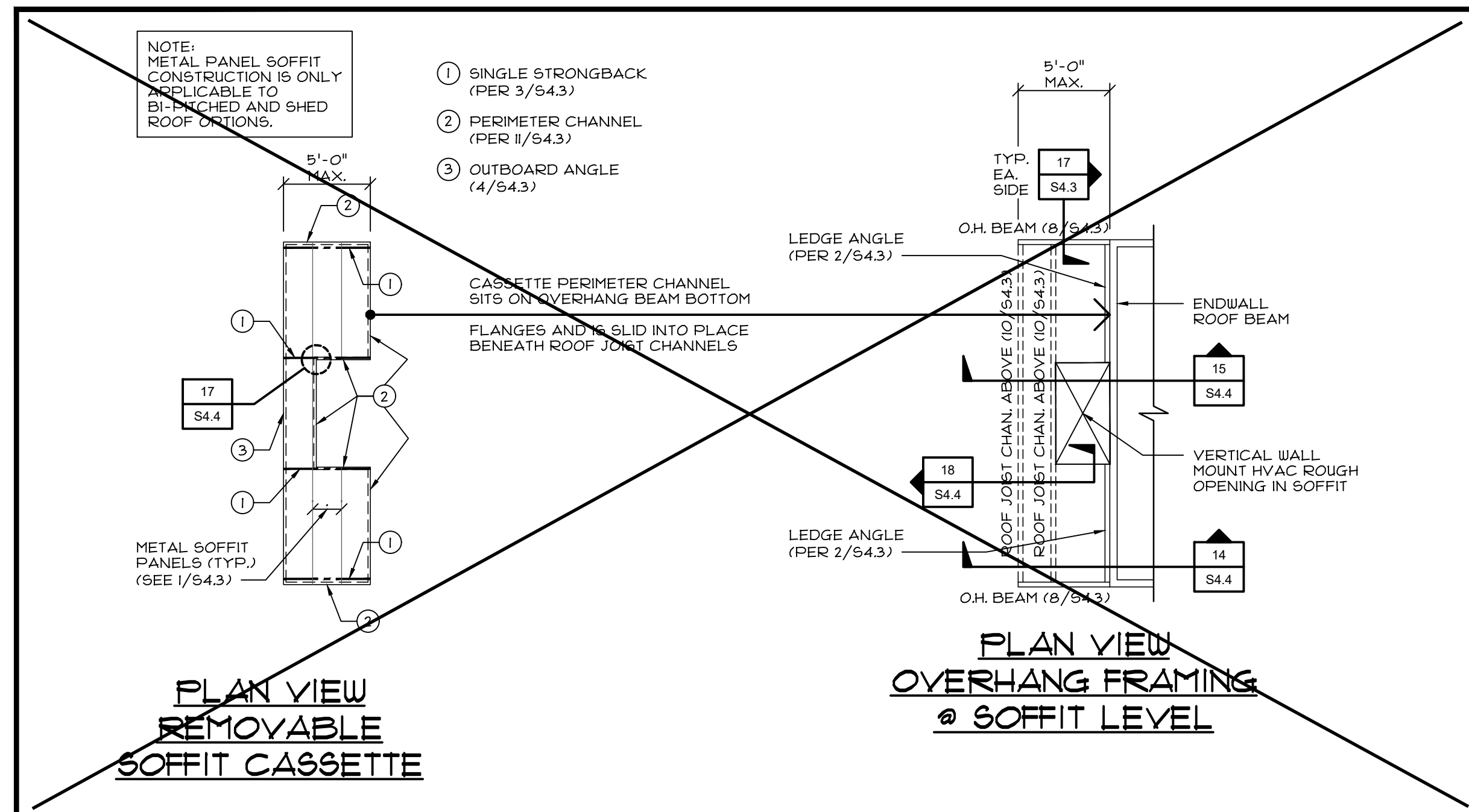
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at  
**ROBERTS FERRY UESD**

**OPTIONAL METAL SOFFIT PANELS, REMOVABLE CASSETTE**

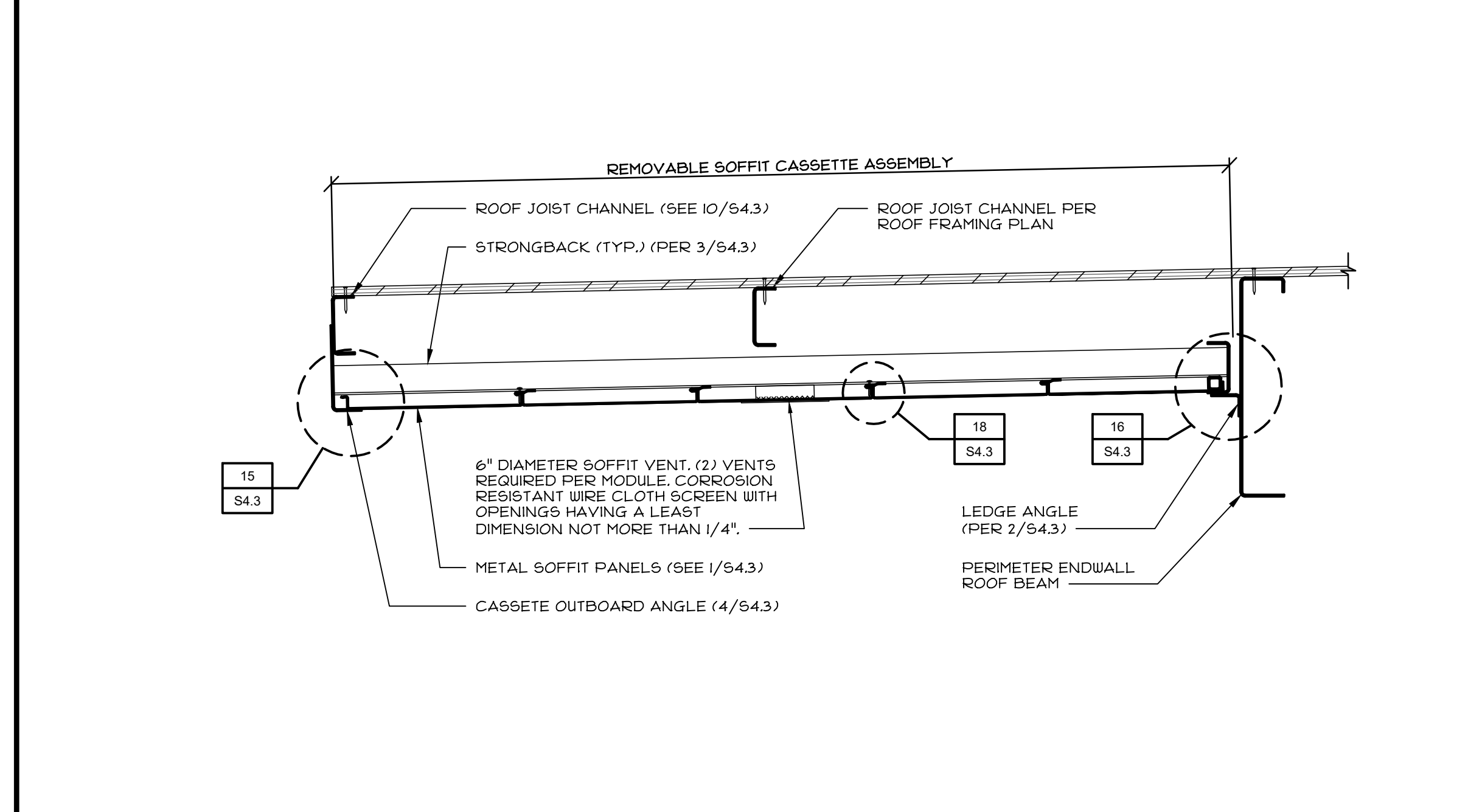
REV / DATE: BY:

JOB No.:  
DRAWN BY:  
DATE:

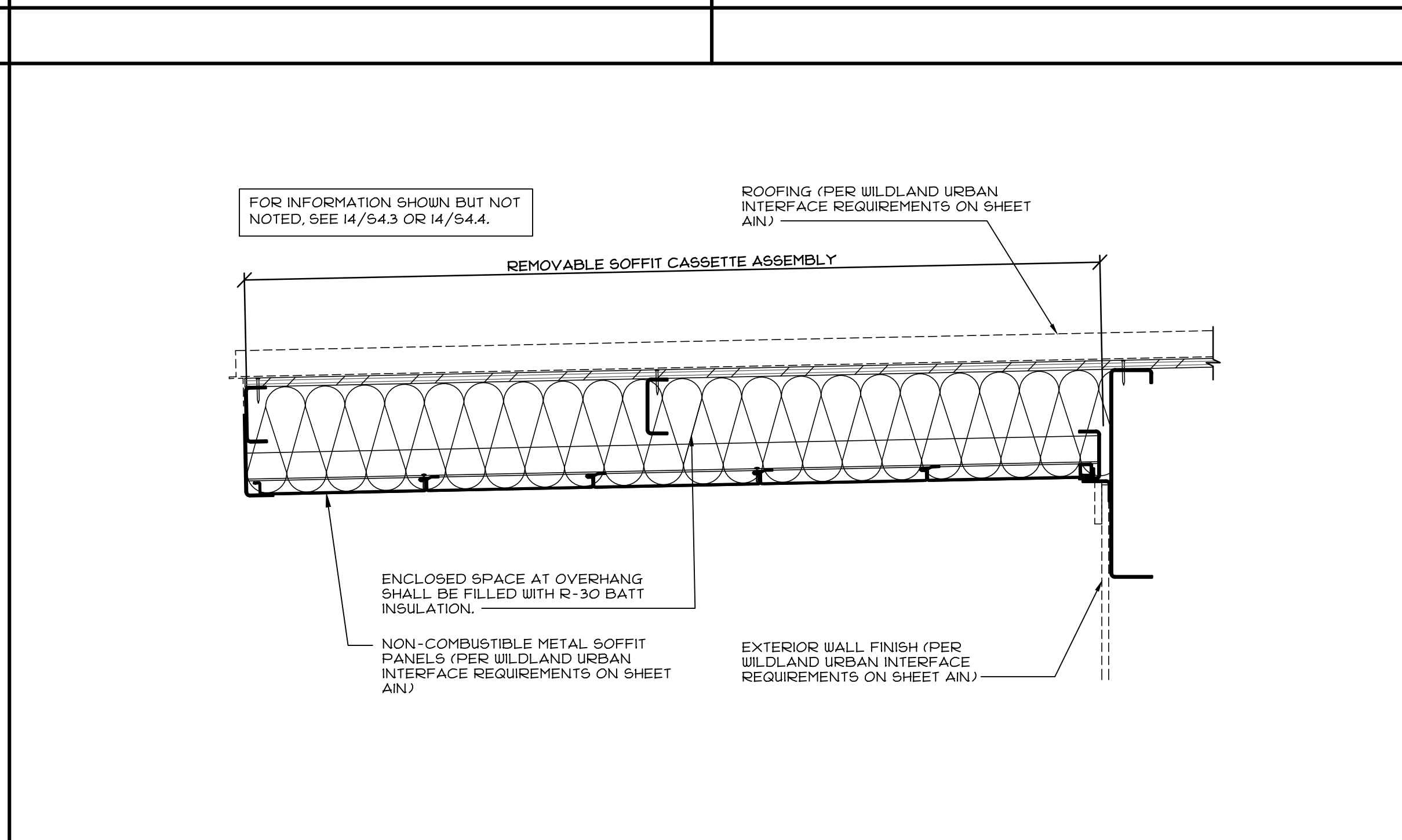
**S4.3**



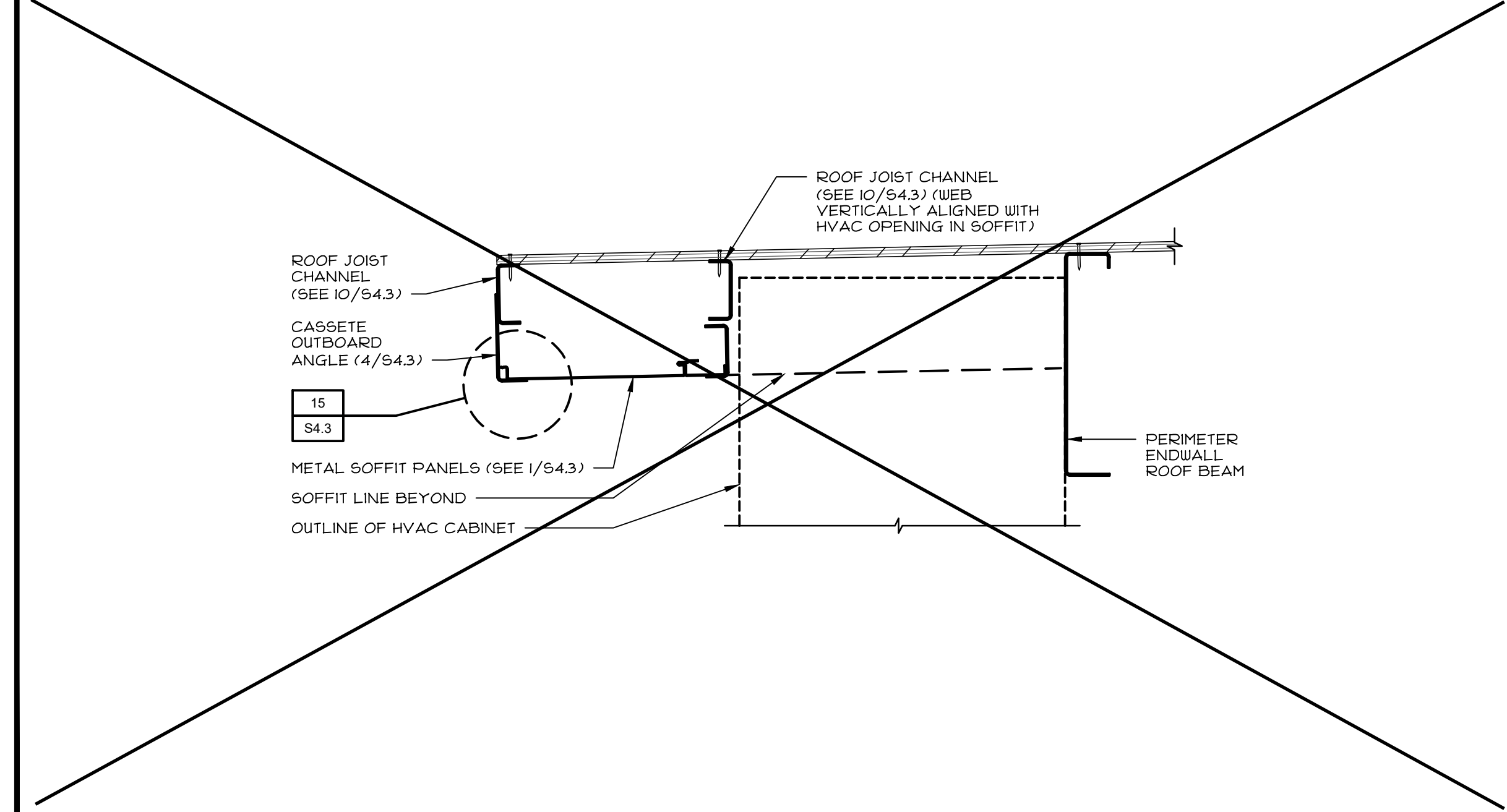
13 SOFFIT FRAMING PLAN (WITH WALL MOUNT HVAC UNIT)  
SCALE: 1/4"=1'-0"



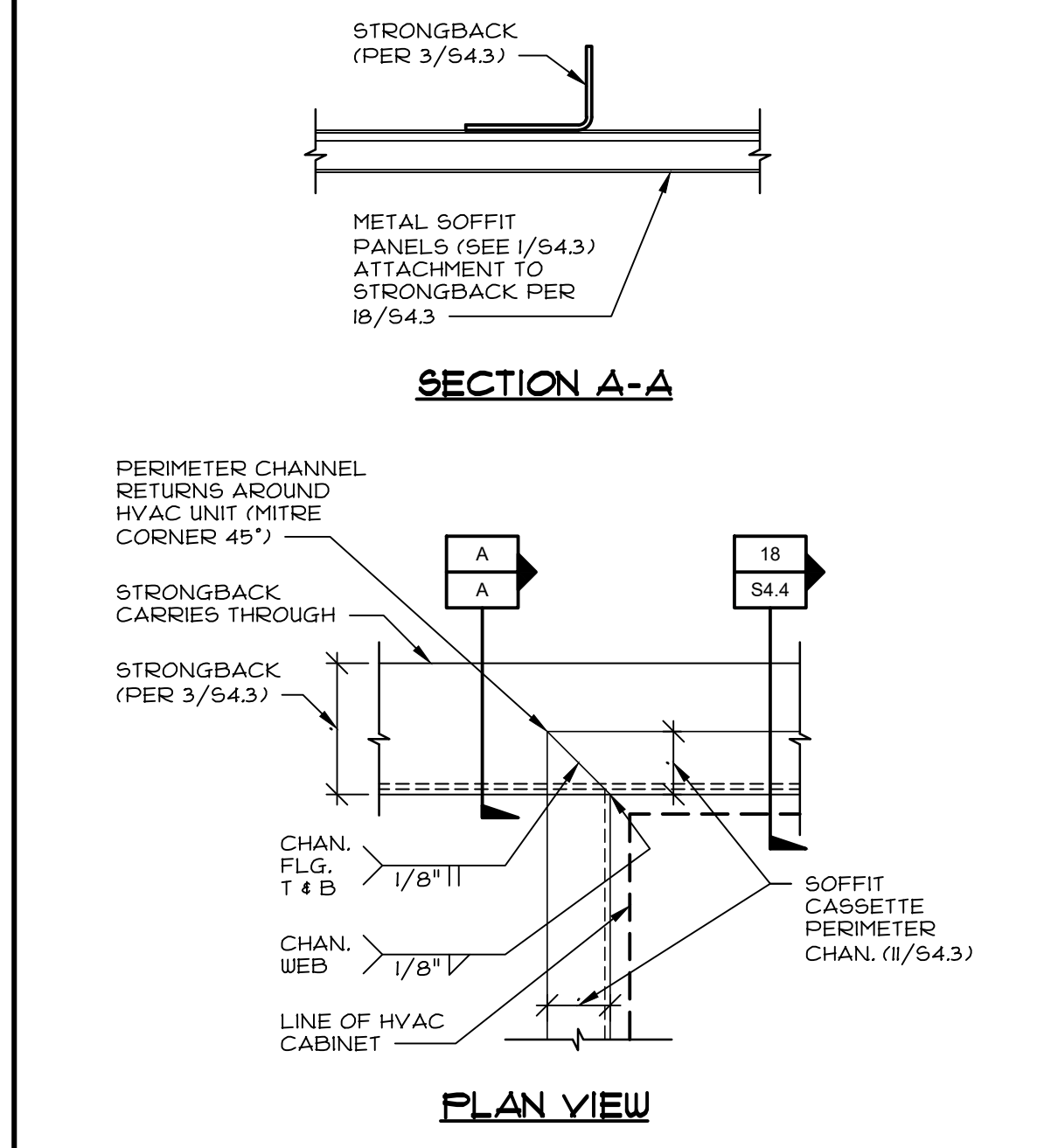
14 SOFFIT SECTION  
SCALE: 1/2"=1'-0"



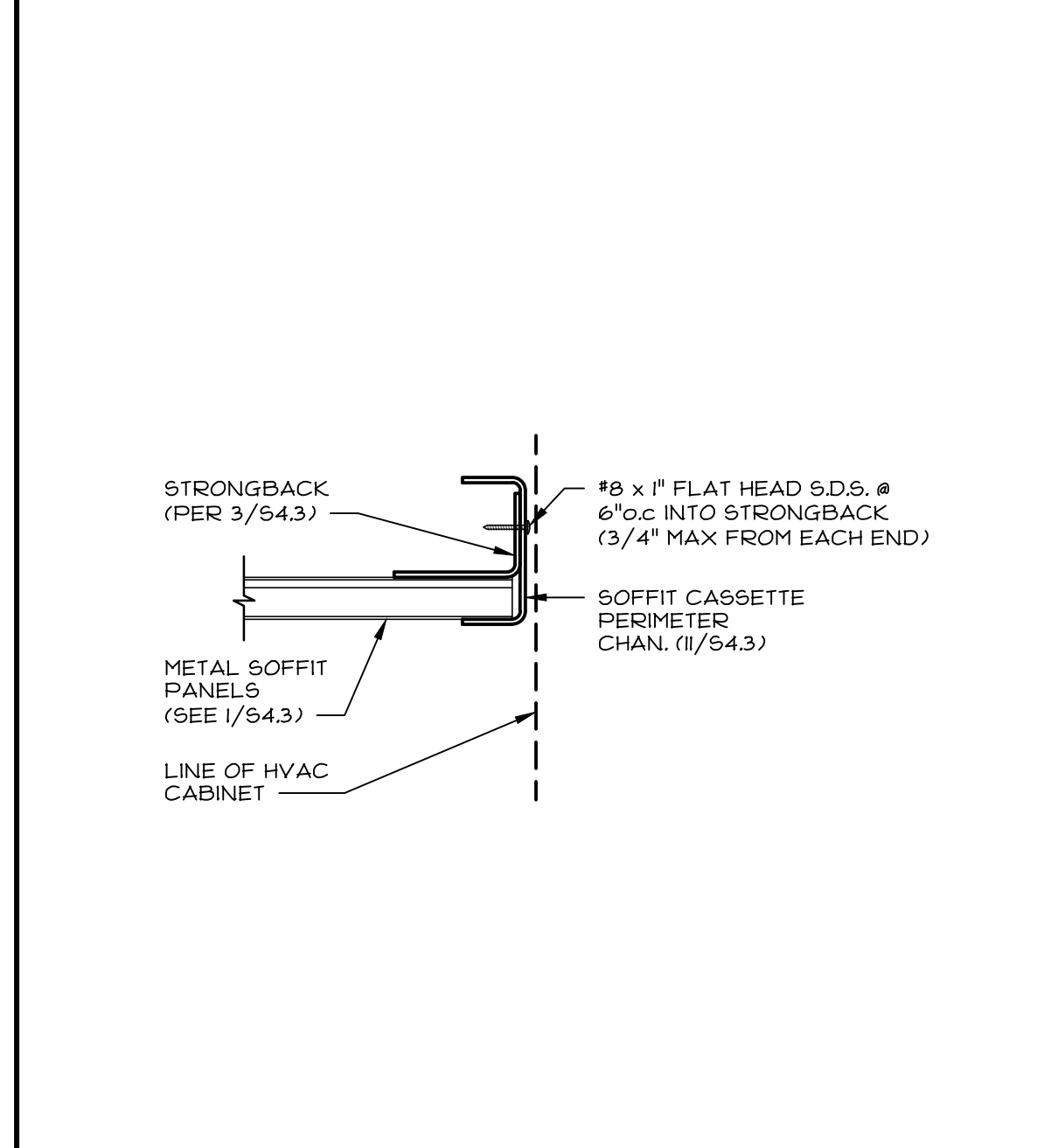
20 NON-VENTED METAL SOFFIT (FOR USE IN WILDLAND URBAN INTERFACE)  
SCALE: 1/2"=1'-0"



15 SOFFIT SECTION @ HVAC OPENING  
SCALE: 1/2"=1'-0"



17 ANGLES ADJACENT TO HVAC  
SCALE: 3/8"=1'-0"



18 ANGLES ADJACENT TO HVAC  
SCALE: 3/8"=1'-0"

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PRE-CHECK (PC) DOCUMENT  
Code: 2022 CBC  
A separate project application for construction is required.

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

CYS STRUCTURAL ENGINEERS, INC.  
4777 E. CARPENTER ROAD  
STOCKTON, CA 95215  
(209) 466-6000

10/11/2023

REGISTERED PROFESSIONAL ENGINEER  
No. S2030  
STATE OF CALIFORNIA

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ENVIROPLEX, INC.  
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STOCKTON, CA 95215  
(209) 466-6000

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DIV. OF THE STATE ARCHITECT  
APP: 02-121249-PC  
REVIEWED FOR  
SS [ ] PLS [ ] ACS [ ] CG [ ]  
DATE: 10/24/2023

ROBERTS FERRY ES  
at  
ROBERTS FERRY UESD

OPTIONAL METAL SOFFIT PANELS, REMOVABLE CASSETTE WITH WALL MOUNT HVAC UNIT

15 S4.4

REBID - April 14, 2024

24"x40" TO 120"x40" P.C.