

California Building Code 2022 (Vol 1 & 2)

1705A.3 Concrete Construction

Special inspections and tests of concrete construction shall be performed in accordance with this section and Table 1705A.3.

Exception: Special inspections and tests shall not be required for concrete patios, driveways and sidewalks, on grade.

**TABLE 1705A.3
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION**

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD ^a	CBC REFERENCE
1. Inspect and test reinforcement, including prestressing tendons, and verify placement.				
a. Reinforcement in special moment frames, boundary elements of special structural walls and coupling beams.	X	—	ACI 318: Ch. 20, 25.2, 25.3, 25.5.1, 25.6.1—25.6.3, 26.13.1, 26.13.3.2, 26.13.3.3	1705A.3.9, 1908A.1, 1910A.2, 1910A.3, [DSA-SS/CC] 1909.2.4, 1909.2.5, 1909.4.1
b. All other reinforcement	—	X		
2. Reinforcing bar welding:				
a. Verify weldability of reinforcing bars other than ASTM A706.	—	X	AWS D1.4	1705A.3.1, 1903A.8
b. Inspect single-pass fillet welds, maximum $\frac{5}{16}$ "; not defined in 2.d or 2.e.	—	X		
c. Inspect all other welds.	X	—		
d. Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements and coupling beams of special structural walls of concrete and shear reinforcement.	X	—	ACI 318: 18.2.B, 25.5.7, 26.6.4, 26.13.1.4, 26.13.3.2, 26.13.3.3	
e. Shear reinforcement.	X	—		
3. Inspect anchors cast in concrete.	—	X	ACI 318: 17.8.2, 26.7.2, 26.8.2, 26.13.1, 26.13.3	—
4. Inspect and test anchors post-installed in hardened concrete members: ^b				
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X	—	ACI 318: 17.8.2.4, 26.7.2, 26.13.1, 26.13.3.2 ACI 318: 17.8.2, 26.7.2, 26.13.1, 26.13.3.3	1705A.3.8, 1910A.5, [DSA-SS/CC] 1909.2.7
b. Mechanical anchors and adhesive anchors not defined in 4.a.	—	X		1705A.3.8, 1910A.5, [DSA-SS/CC] 1909.2.7
5. Verify use of required design mix.	—	X	ACI 318: Ch. 19, 26.4, 26.13.3.2	1903A.5, 1903A.6, 1903A.7, 1904A.1, 1904A.2, 1910A.1, [OSHDP 1 & 4] 1908A.1, [DSA-SS/CC] 1909.2.1, 1909.2.2, 1909.2.3
6. Prior to and during concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	—	ASTM C31, ASTM C172, ACI 318: 26.4, 26.5, 26.12	1705A.3.5, 1705A.3.6, 1705A.3.9, 1905A.1.17, [DSA-SS/CC] 1909.3.9
7. Inspect concrete and shotcrete placement for proper application techniques.	X	—	ACI 318: 26.5, 26.13, ACI 506: 3.4	1705A.3.9, 1905A.1.15, 1905A.1.16, [DSA-SS/CC] 1909.3.7, 1909.3.8
8. Verify maintenance of specified curing temperature and techniques.	—	X	ACI 318: 26.5.3-26.5.5, 26.13.3.3	
9. Inspect prestressed concrete for:				
a. Application of prestressing forces; and	X	—	ACI 318: 26.10.2, 26.13.1, 26.13.3.2	1705A.3.4
b. Grouting of bonded prestressing tendons.	X	—		
10. Inspect erection of precast concrete members.	—	X	ACI 318: 26.9, 26.13.1, 26.13.3.3	—
11. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for:			ACI 318: 26.13.1.3	—
a. Installation of the embedded parts	X	—	ACI 550.5	
b. Completion of the continuity of reinforcement across joints.	X	—		
c. Completion of connections in the field.	X	—		
12. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	—	X	ACI 318: 26.13.1.3	—
13. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	—	X	ACI 318: 26.10.2, 26.11.2, 26.13.3.3	
14. Inspect formwork for shape, location and dimensions of the concrete member being formed.	—	X	ACI 318: 26.11.1.2(b), 26.13.3.3	1908A.3, [DSA-SS/CC] 1909.4.3

For SI: 1 inch = 25.4 mm.

a. Where applicable, see Section 1705A.13.

b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

c. Installation of all adhesive anchors in horizontal and upwardly inclined positions shall be performed by an ACI/CRSI Certified Adhesive Anchor Installer, except where the design tension on the anchors is less than 130 pounds and those anchors are clearly noted on the approved construction documents or where the anchors are shear dowels across cold joints in slabs on grade where the slab is not part of the lateral force-resisting system.

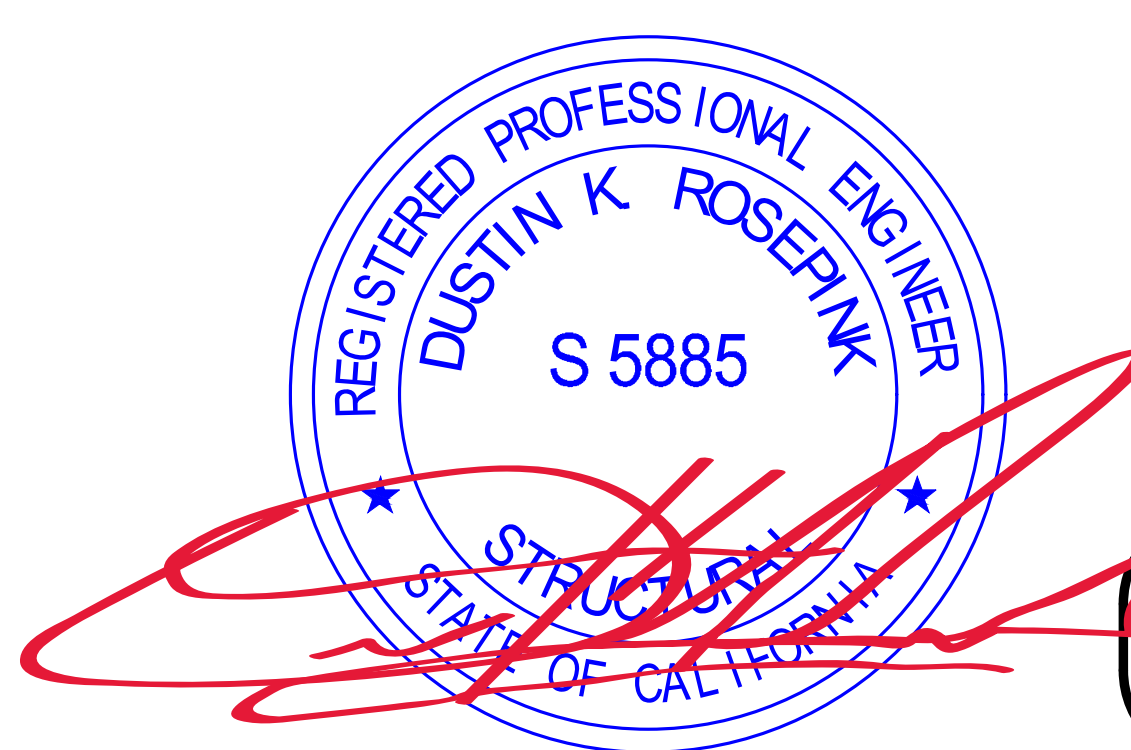
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Project #:

18240 NORTH BANK ROAD
ROSEBURG, OR 97470
(541) 496-3541 FAX (541) 496-0803

PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM
WEST CAMPUS
SACRAMENTO, CALIFORNIA
SHEET TITLE: DESIGN CRITERIA AND CODE SUMMARY

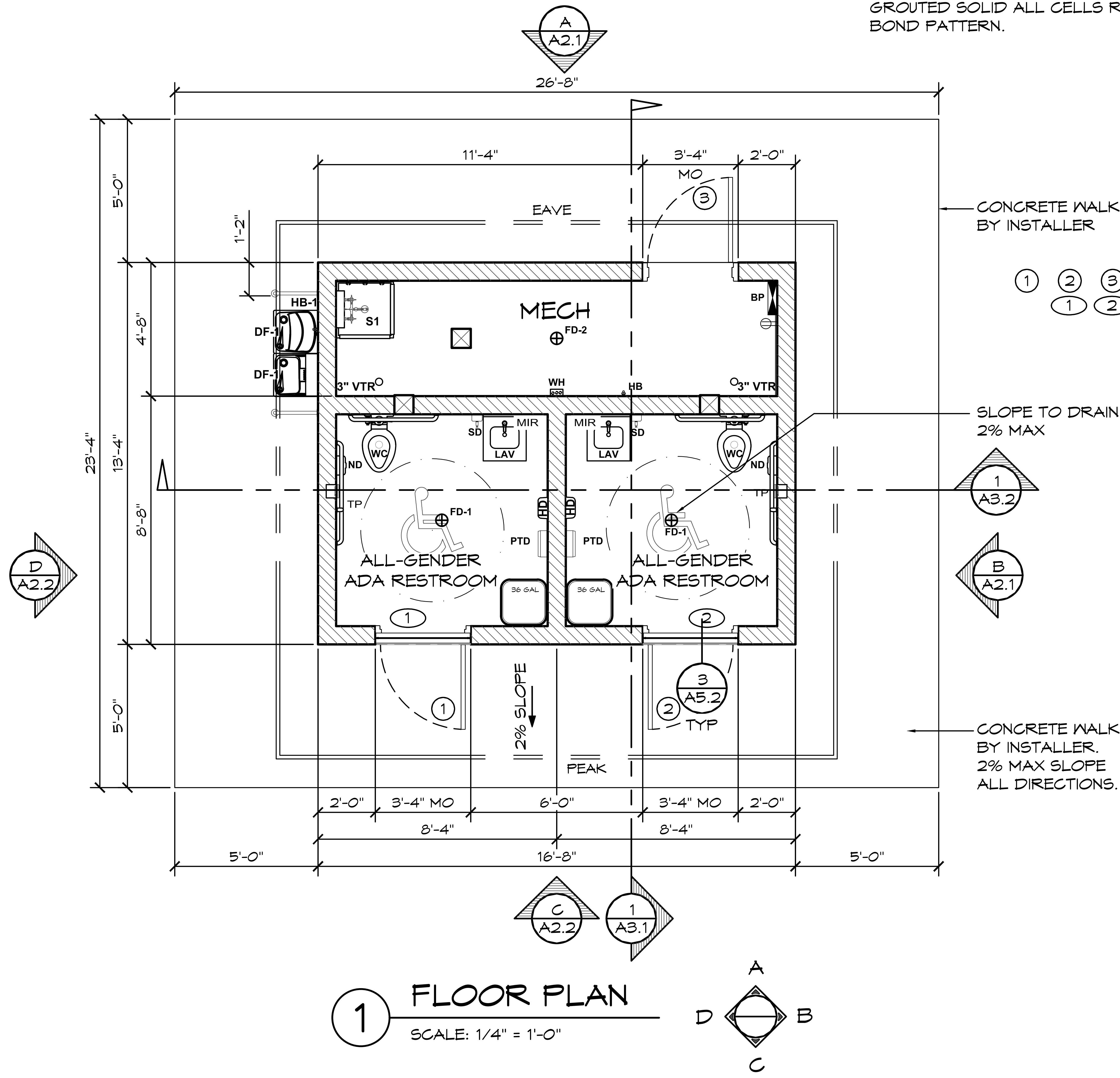
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DATE:	11/01/2023	
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REV.	DATE:	BY
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SHEET NO. **G3**

WALL TYPE SCHEDULE

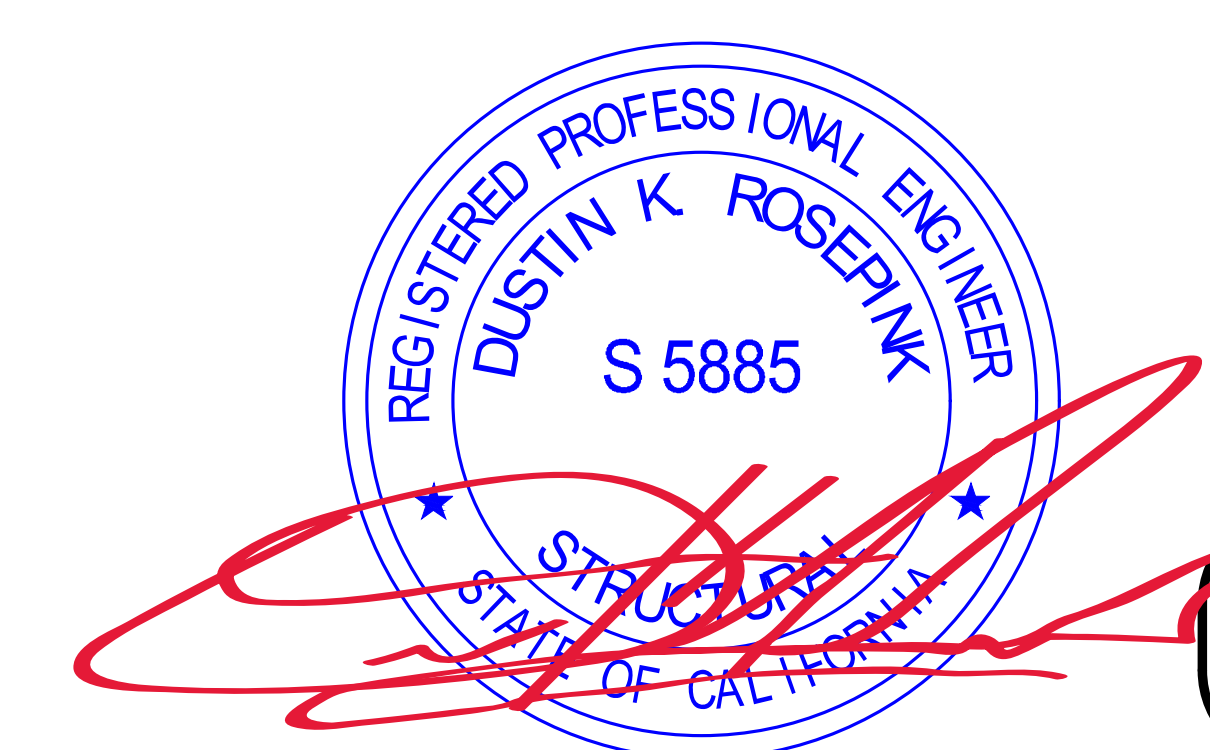
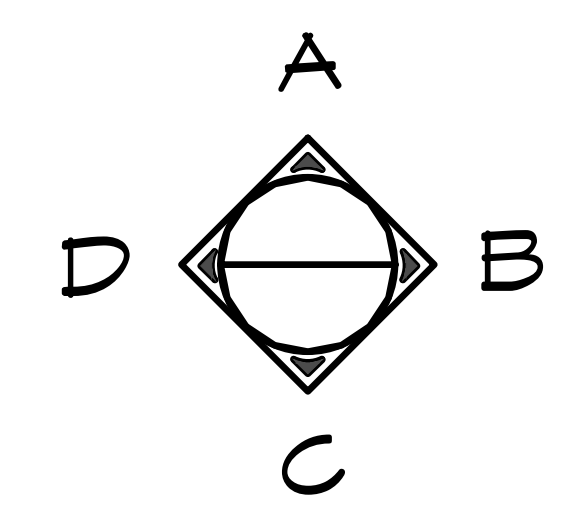
8" REINFORCED CONCRETE MASONRY BLOCK WALL WITH MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.



NOTES:

1. SEE SHEET A1.2 FOR ADA CLEARANCES.
2. SEE SHEET A5.1 FOR DOOR LEGEND.
3. SEE SHEET A6.1 FOR VENT LEGEND
4. SEE FOUNDATION PLANS AND DETAILS FOR SLAB DESIGN AND DETAILS.
5. SEE G1 FOR LEGEND AND ABBREVIATIONS & A1.3 FOR FIXTURES.
6. THE RESTROOMS ARE DESIGNED TO BE NATURALLY VENTILATED PER CMC 405.5 PROVIDED BY THE WIRE WEAVE MESH VENTS ABOVE THE DOOR.
6. THE MECH ROOM IS DESIGNED TO BE NATURALLY VENTILATED PER CMC 405.5 WHEN OCCUPIED PER THE AJAR DOOR.

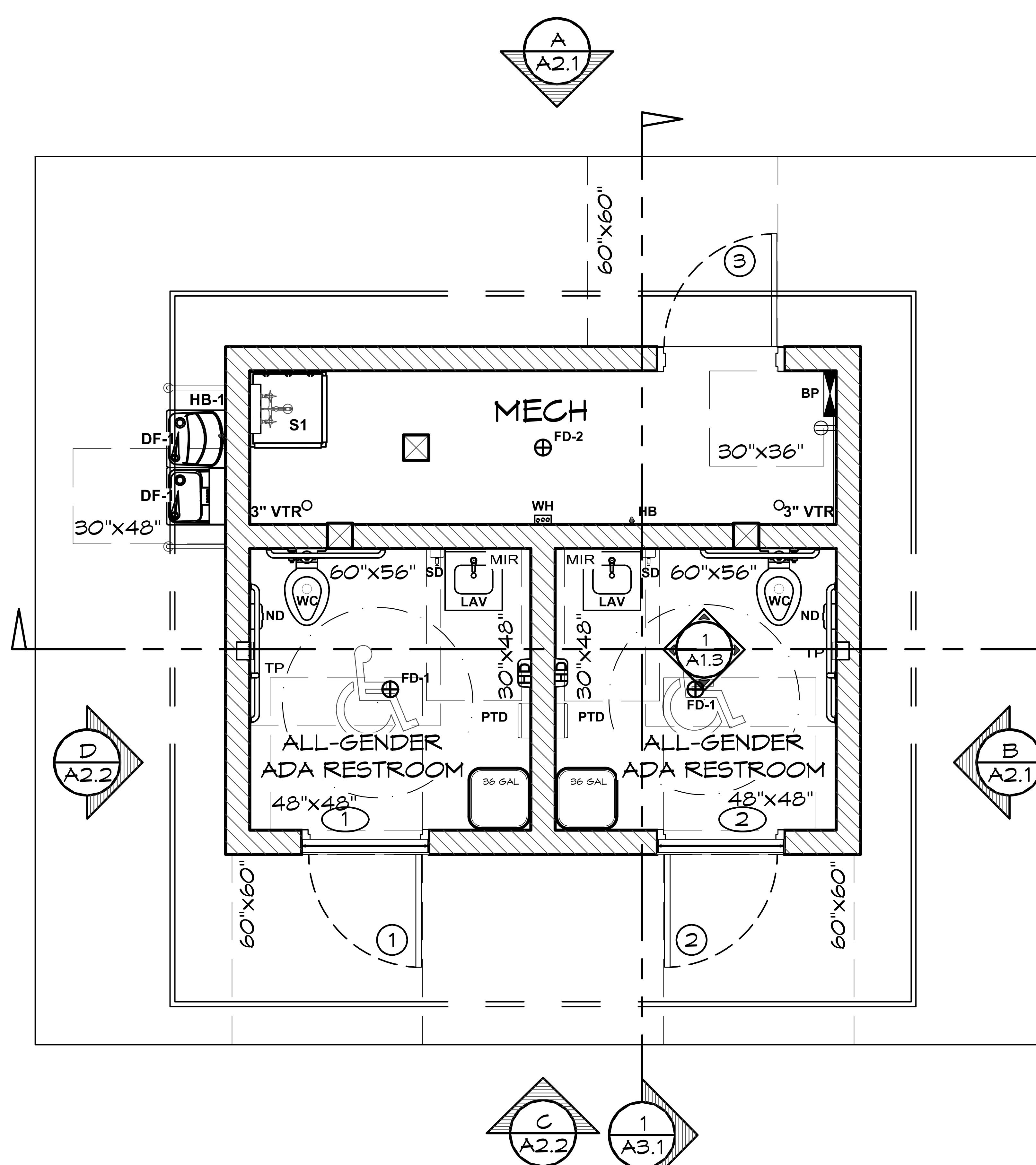
1 FLOOR PLAN
SCALE: 1/4" = 1'-0"



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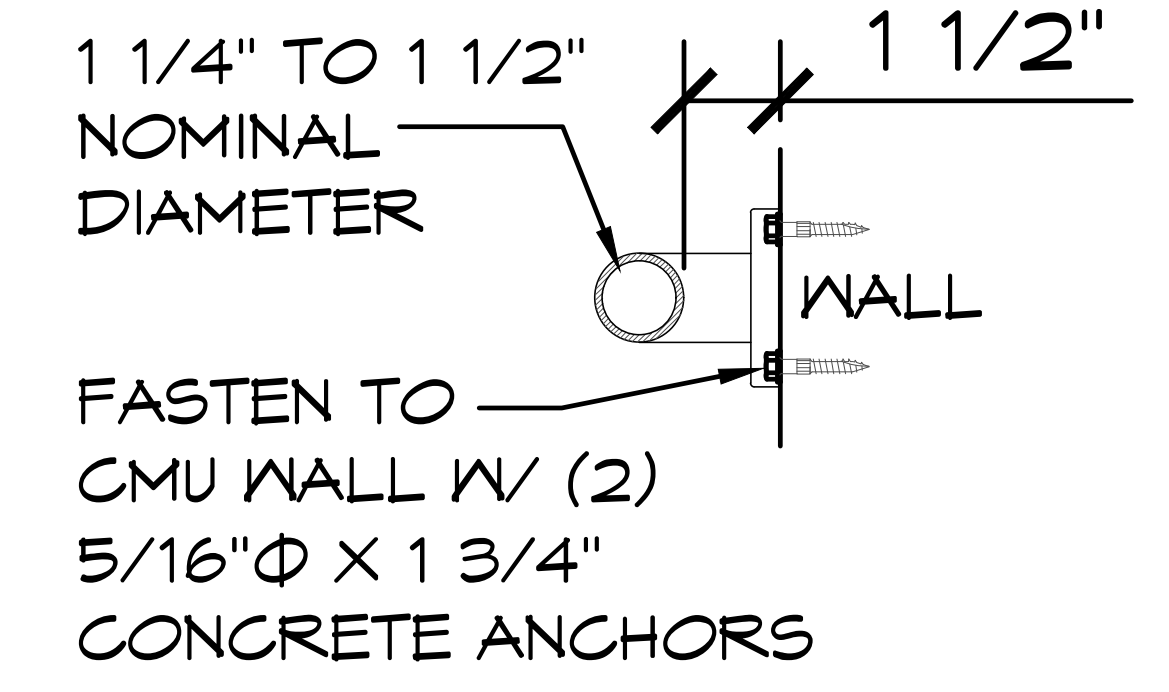
 26030 Acero, Suite 200 Mission Viejo, CA 92691 www.asteleng.com Project #:	ROMTEC 18240 NORTH BANK ROAD ROSEBURG, OR 97470 (541) 496-3541 FAX (541) 496-0803	PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM WEST CAMPUS SACRAMENTO, CALIFORNIA SHEET TITLE: FLOOR PLAN
PLAN SET# WESO1 DATE: 11/01/2023 REVISIONS		
REV.	DATE:	BY
3	02-15-2024	CR
DRAWN BY: CR		

SHEET NO. **A1.1**



1 ADA RESTROOM FIXTURE CLEAR FLOOR AREA
SCALE: 1/4" = 1'-0"

INSTALLED GRAB BARS MUST MEET 250# MINIMUM LOAD & GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS PER CBC 2016 11B-609.



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

INSTALL GRAB BARS PER CBC 11B-604.5

- MINIMUM LENGTH FOR THE GRAB BAR AT THE SIDE OF THE TOILET AS 42".
- THE 42" GRAB BAR AS LOCATED 12" MAXIMUM FROM THE REAR WALL.
- THE 42" GRAB BAR EXTENDING 54" MINIMUM FROM THE REAR WALL WITH THE FRONT END POSITIONED 24" MINIMUM IN FRONT OF THE WATER CLOSET.
- A MINIMUM LENGTH FOR THE GRAB BAR BEHIND THE TOILET AS 36".
- THE 36" GRAB BAR EXTENDING A MINIMUM OF 12" ON ONE SIDE OF THE TOILET.
- THE 36" GRAB BAR EXTENDING A MINIMUM OF 24" ON THE OTHER SIDE OF THE TOILET.
- THE GRAB BAR SHALL HAVE GRIPPING SURFACES WITH A DIAMETER OF 1-1/4 INCH TO 2 INCH LOCATED WITH A SPACE BETWEEN THE WALL AND GRAB BAR OF 1-1/2 INCH PER CBC 11B-609 .2.1.



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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

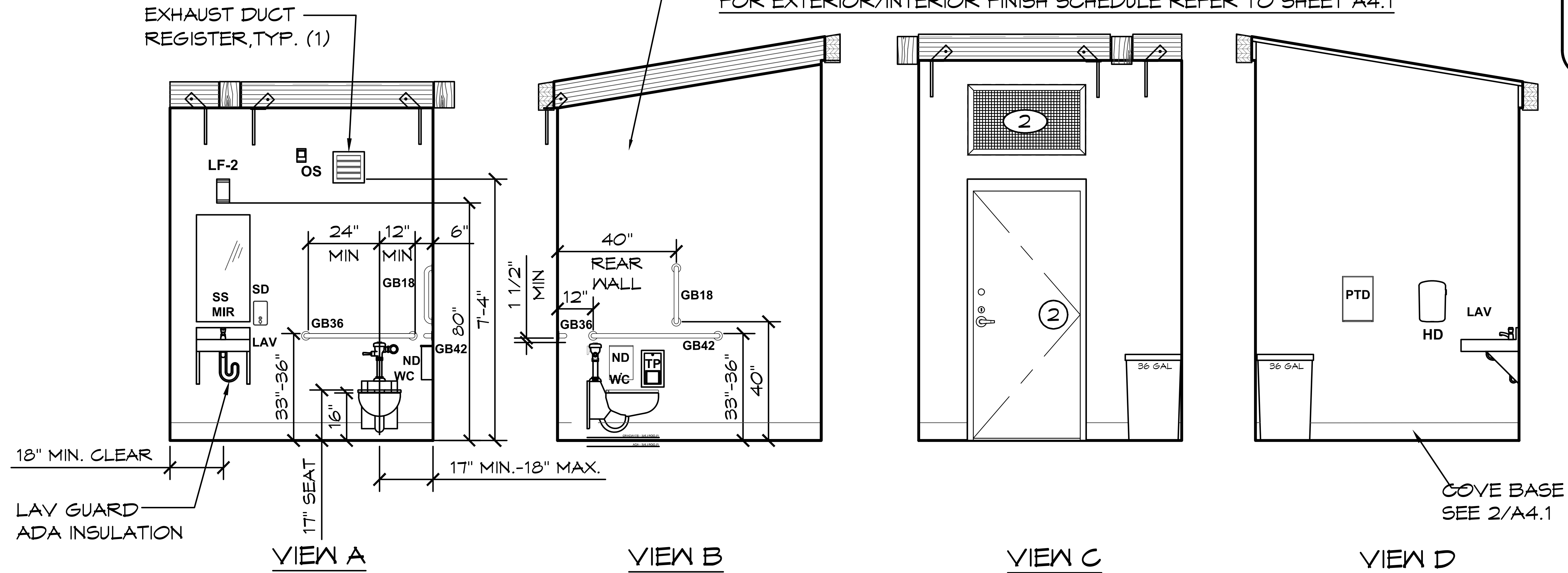
WEST CAMPUS
SACRAMENTO, CALIFORNIA

SHEET TITLE: ADA CLEAR SPACE

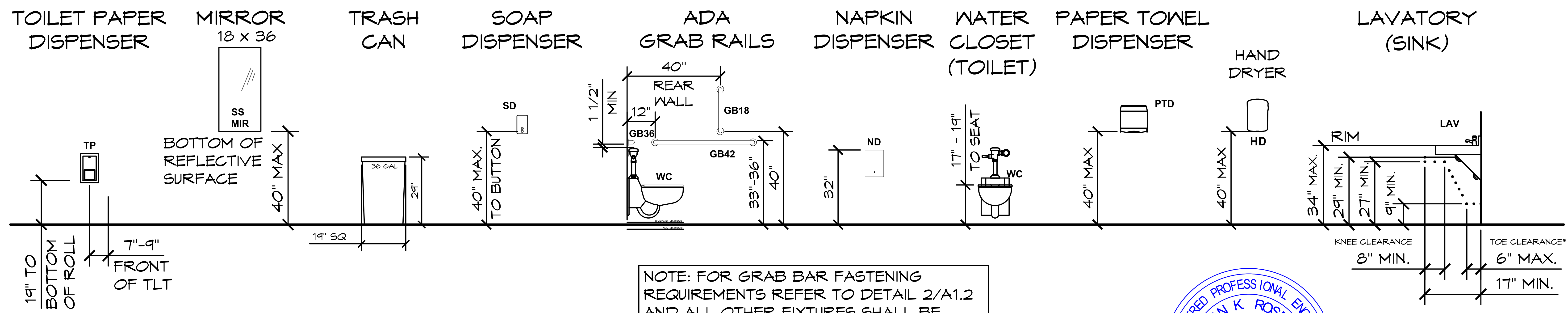
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SHEET NO. **A1.2**

WALLS AND PARTITIONS WITHIN 2 FEET OF SERVICE SINKS, URINALS AND WATER CLOSETS SHALL HAVE SMOOTH, HARD, NONABSORBENT SURFACE, TO A HEIGHT OF NOT LESS THAN 4 FEET ABOVE THE FLOOR PER CBC 2022 1210.2.2 FLOORS AND WALL BASES SHALL HAVE A SMOOTH, HARD, NONABSORBENT VERTICAL BASE THAT EXTENDS UPWARD ONTO THE WALLS NOT LESS THAN 4 INCHES PER CBC 2022 1210.2.1. FOR EXTERIOR/INTERIOR FINISH SCHEDULE REFER TO SHEET A4.1



1 ADA RESTROOM INTERIOR ELEVATION VIEWS
SCALE: 1/4" = 1'-0"



NOTE: FOR GRAB BAR FASTENING REQUIREMENTS REFER TO DETAIL 2/A1.2 AND ALL OTHER FIXTURES SHALL BE FASTENED TO CMU WALL PER MANUFACTURE'S INSTALL INSTRUCTIONS

2 ADA RESTROOM FIXTURE DETAILS
SCALE: 1/4" = 1'-0"



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ROMTEC

PROJECT: 2022 SIERRA II COMPACT 16'-3" W/ MECH RM

WEST CAMPUS
SACRAMENTO, CALIFORNIA

SHEET TITLE: INTERIOR ELEVATIONS

PLAN SET#	NESO1	
DATE:	11/01/2023	
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EXHAUST FAN ROOF CAP W/
6" COLLAR & BIRD SCREEN.
SEAL PENETRATION W/
METAL ROOF VENT SEALING
ADAPTER MULTI-FLASH, TYP.

3" VTR W/ VENT
BOOT, TYP. (2)

STANDING SNAP LOCKING SEAM
METAL ROOFING CUSTOM-BILT
METALS SL-1750-18" WIDTH PANEL
(ICC-ES ESL-1491), OVER
UNDERLAYMENT - ICE & WATER
SHIELD SHALL EXTEND 24" PAST
EXTERIOR WALL AT PERIMETER WITH
#30 ROOFING FELT IN FIELD, TYP.

2X6 CEDAR
FASCIA, TYP

GUTTERS & DOWNSPOUTS
SHALL BE SECURELY
FASTENED TO CMU
(SUPPLIED BY
INSTALLER), TYP.

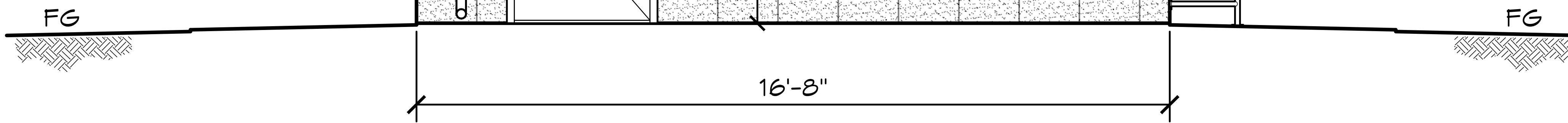
8" X 16" CMU SPLIT FACE
CONCRETE BLOCK WALL
FULLY REINFORCED
RUNNING BOND PATTERN

DRINKING FOUNTAIN GUARD
RAILS SHALL BE SECURELY
FASTENED TO CMU - REFER
TO DETAIL 2/A1.2, TYP.

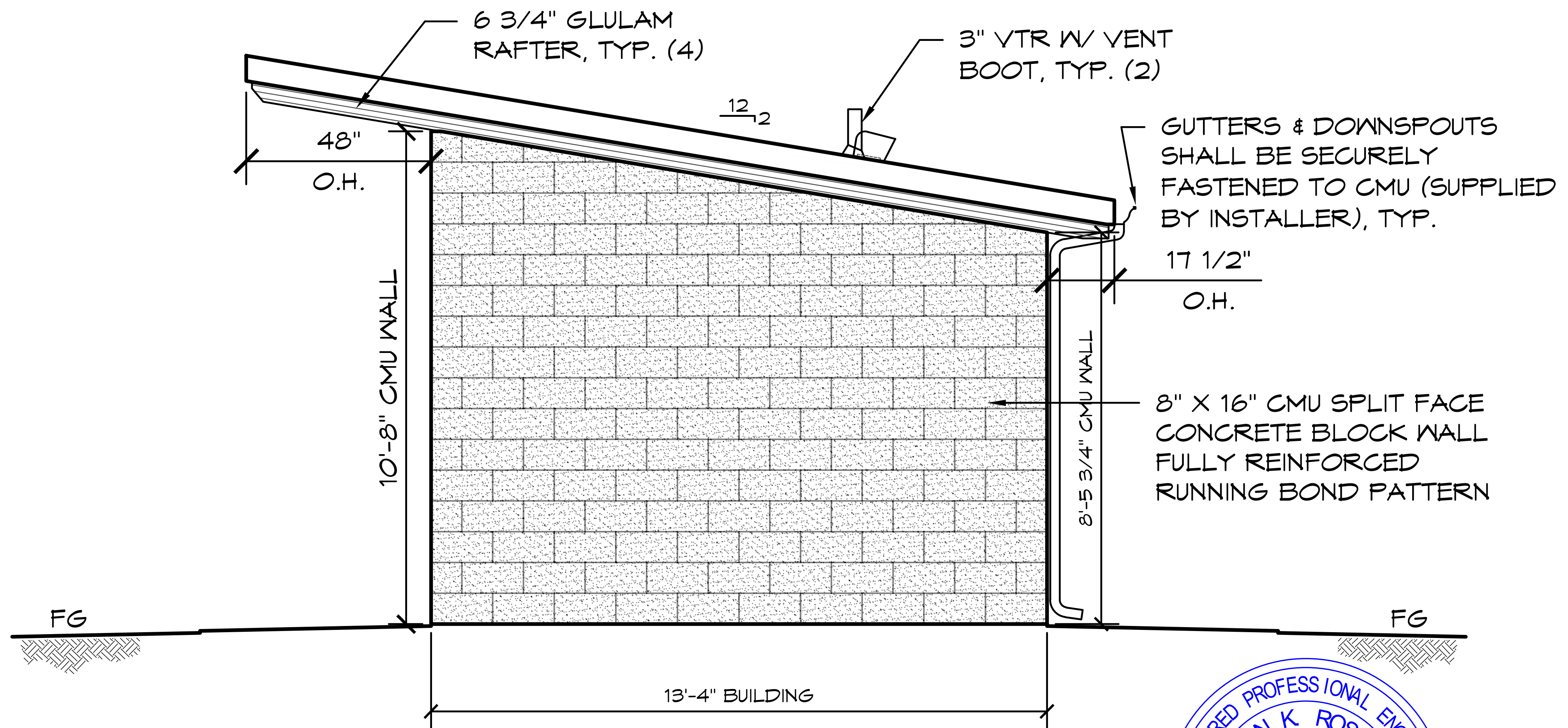
FOR EXTERIOR/INTERIOR FINISH
SCHEDULE REFER TO SHEET A4.1

NOTES:

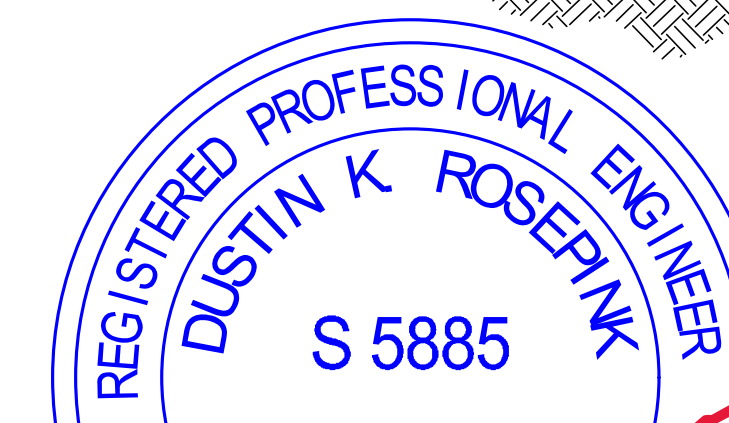
- ③ 1. SEE SHEET A5.1 FOR DOOR LEGEND.



A ELEVATION VIEW
SCALE: 1/4" = 1'-0"



B ELEVATION VIEW
SCALE: 1/4" = 1'-0"



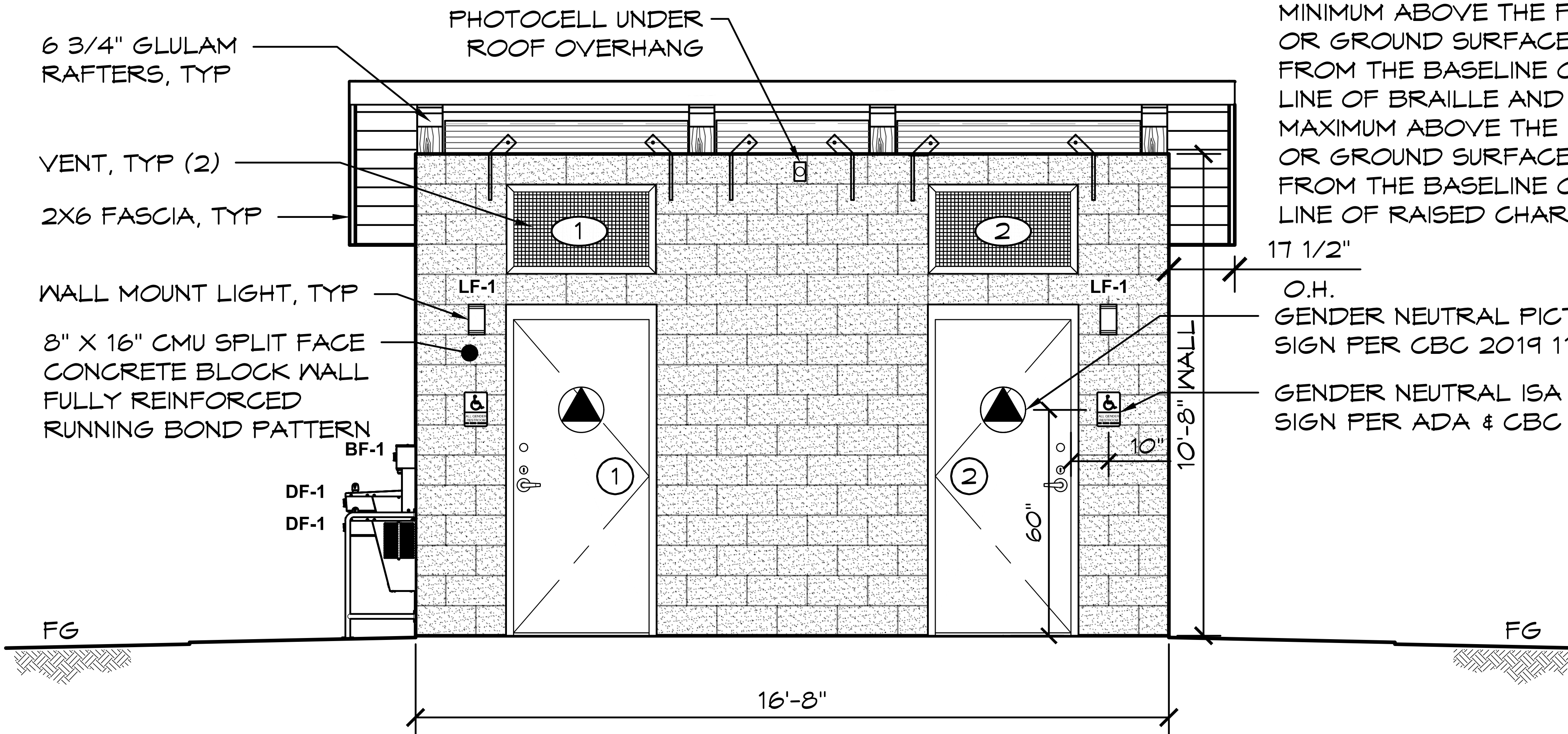
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ROMTEC
PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM
WEST CAMPUS
SACRAMENTO, CALIFORNIA
SHEET TITLE: EXTERIOR ELEVATIONS

PLAN SET#	NES01		
DATE:	11/01/2023		
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3	02-15-2024	CR	
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SHEET NO. **A2.1**



SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED 48" MINIMUM ABOVE THE FINISHED FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60 INCHES MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.

17 1/2"
O.H.
GENDER NEUTRAL PICTORIAL ADA SIGN PER CBC 2019 11B-703.7.2.6
GENDER NEUTRAL ISA WITH BRAILLE SIGN PER ADA & CBC 2019 11B-703

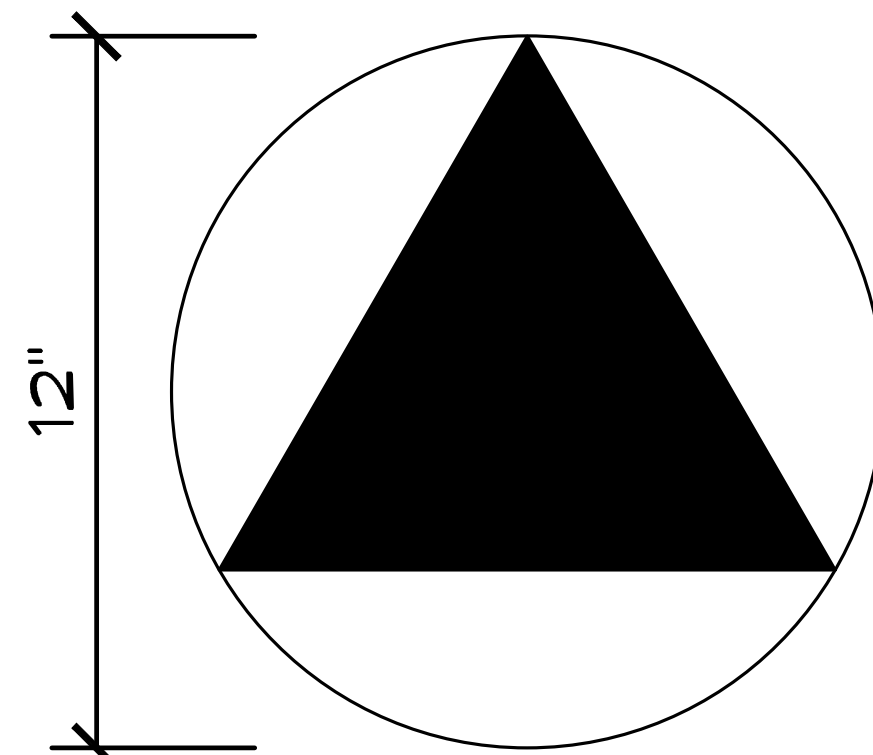
FOR EXTERIOR/INTERIOR FINISH SCHEDULE REFER TO SHEET A4.1

NOTES:

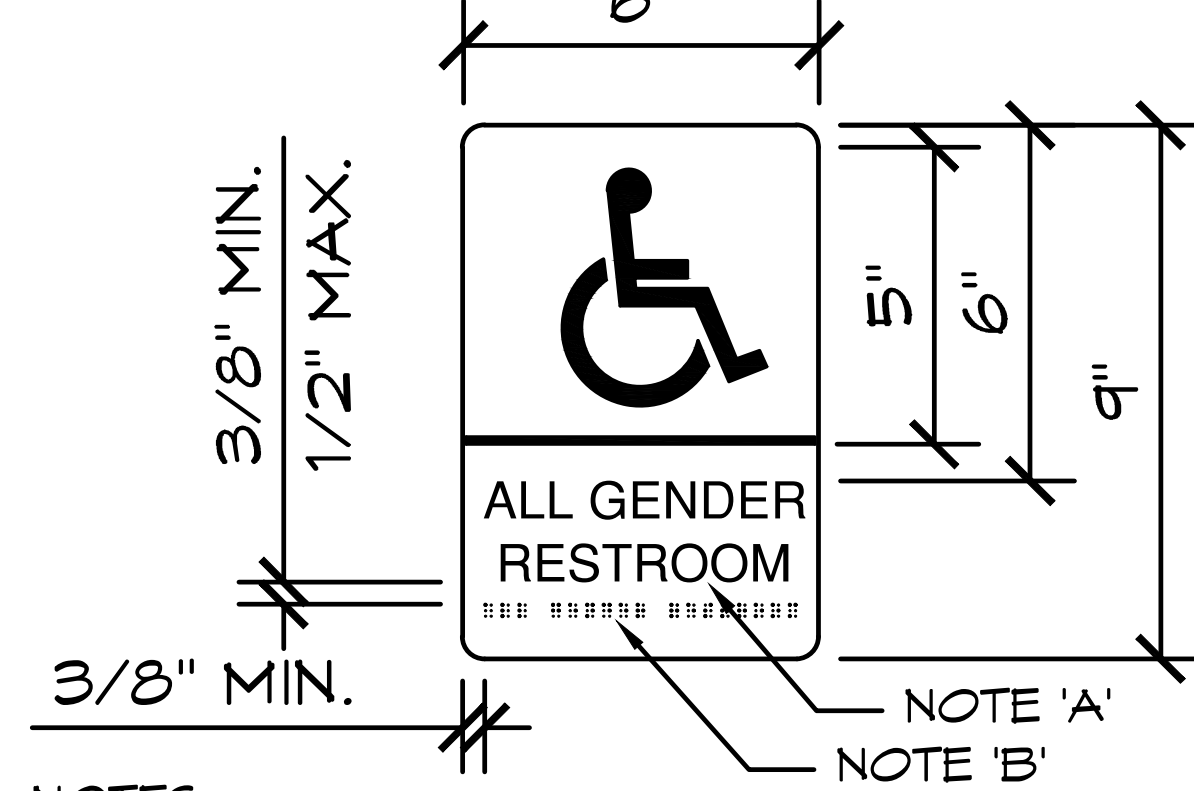
- ① ② 1. SEE SHEET A5.1 FOR DOOR LEGEND.
- ① ② 2. SEE SHEETS A6.1 FOR VENT LEGEND.

C ELEVATION VIEW

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



NOTE:
ALL GENDER SANITARY FACILITIES SIGN SHALL BE IDENTIFIED BY A CIRCLE, 1/4" THICK AND 12" INCHES IN DIAMETER WITH 1/4" THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12" DIAMETER



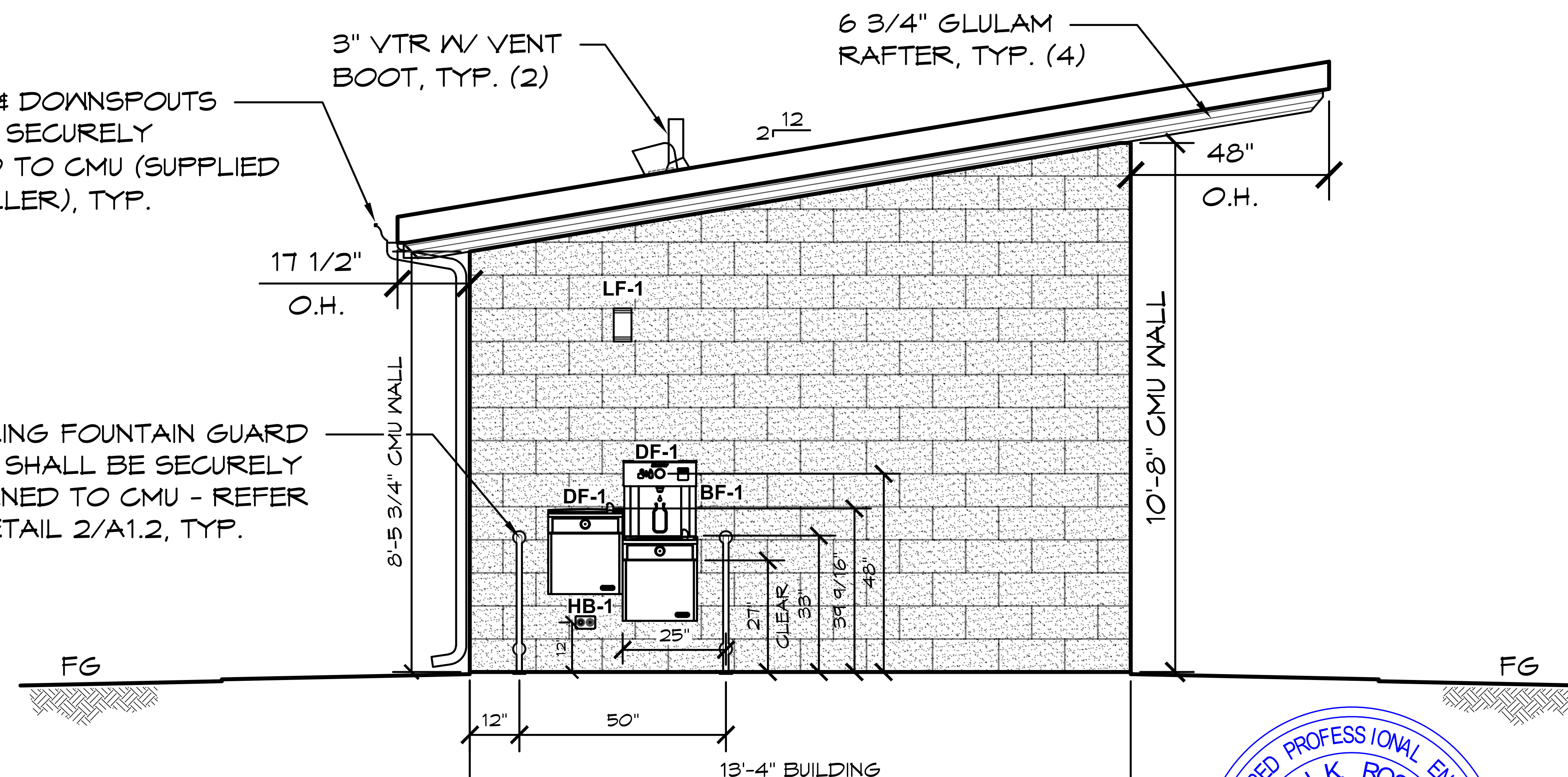
NOTES:

A) CHARACTERS ON SIGNS SHALL BE RAISED 1/32" INCH MINIMUM AND SHALL BE 'SANS SERIF' UPPERCASE CHARACTERS ACCOMPANIED BY GRADE II BRAILLE (WHERE REQUIRED). RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" INCH AND A MAXIMUM OF 2" INCHES HEIGHT.

B) CONTRACTED GRADE II BRAILLE SHALL BE USED WHENEVER BRAILLE IS REQUIRED. DOTS SHALL BE 1/10" TH INCH ON CENTERS IN EACH CELL WITH A 2/10" INCH SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE A RAISED A MINIMUM OF 1/40" TH (0.025) INCH ABOVE THE BACKGROUND.

GUTTERS & DOWNSPOUTS SHALL BE SECURELY FASTENED TO CMU (SUPPLIED BY INSTALLER), TYP.

DRINKING FOUNTAIN GUARD RAILS SHALL BE SECURELY FASTENED TO CMU - REFER TO DETAIL 2/A1.2, TYP.

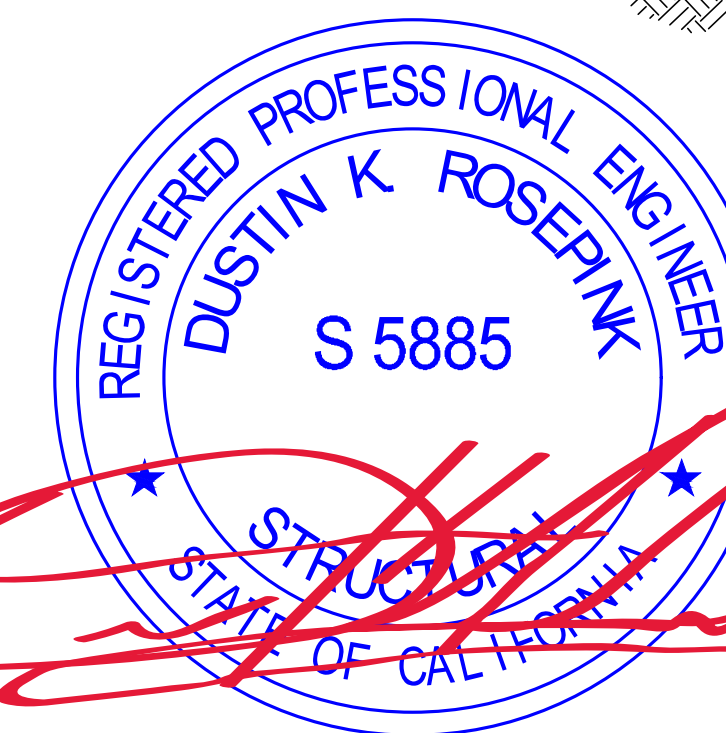


D ELEVATION VIEW

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

1 ADA SIGNS DETAIL

SCALE: 3" = 1'-0"

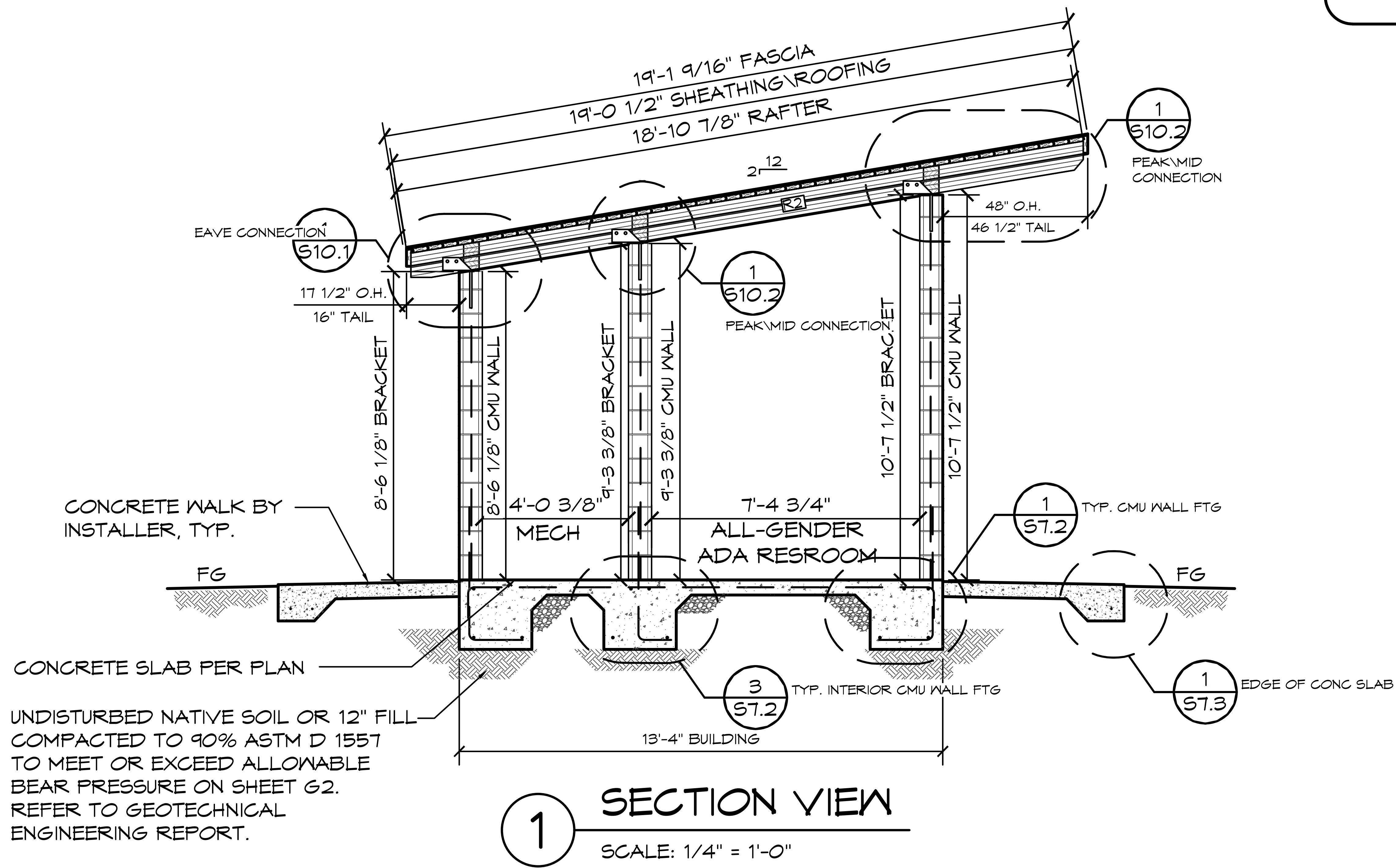


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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM
 WEST CAMPUS SACRAMENTO, CALIFORNIA
 SHEET TITLE: EXTERIOR ELEVATIONS
 PLAN SET# NES01
 DATE: 11/01/2023
 REVISIONS
 REV. DATE BY
 3 02-15-2024 CR
 DRAWN BY: CR

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SHEET NO. **A2.2**



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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

PLAN SET# NES01

DATE: 11/01/2023

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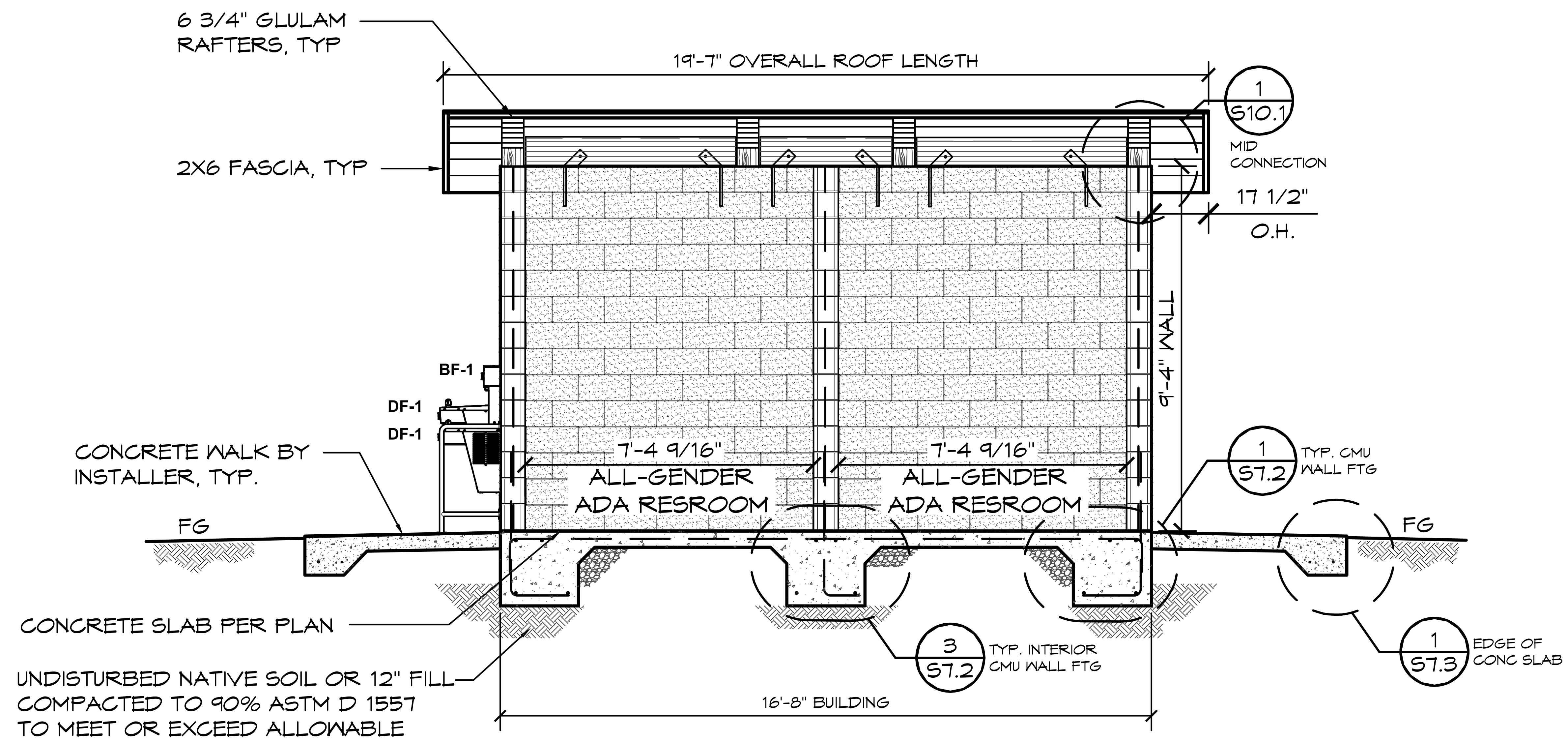
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Project #:

ROMTEC

WEST CAMPUS
SACRAMENTO, CALIFORNIA

SHEET TITLE: BUILDING SECTIONS

SHEET NO. A3.1



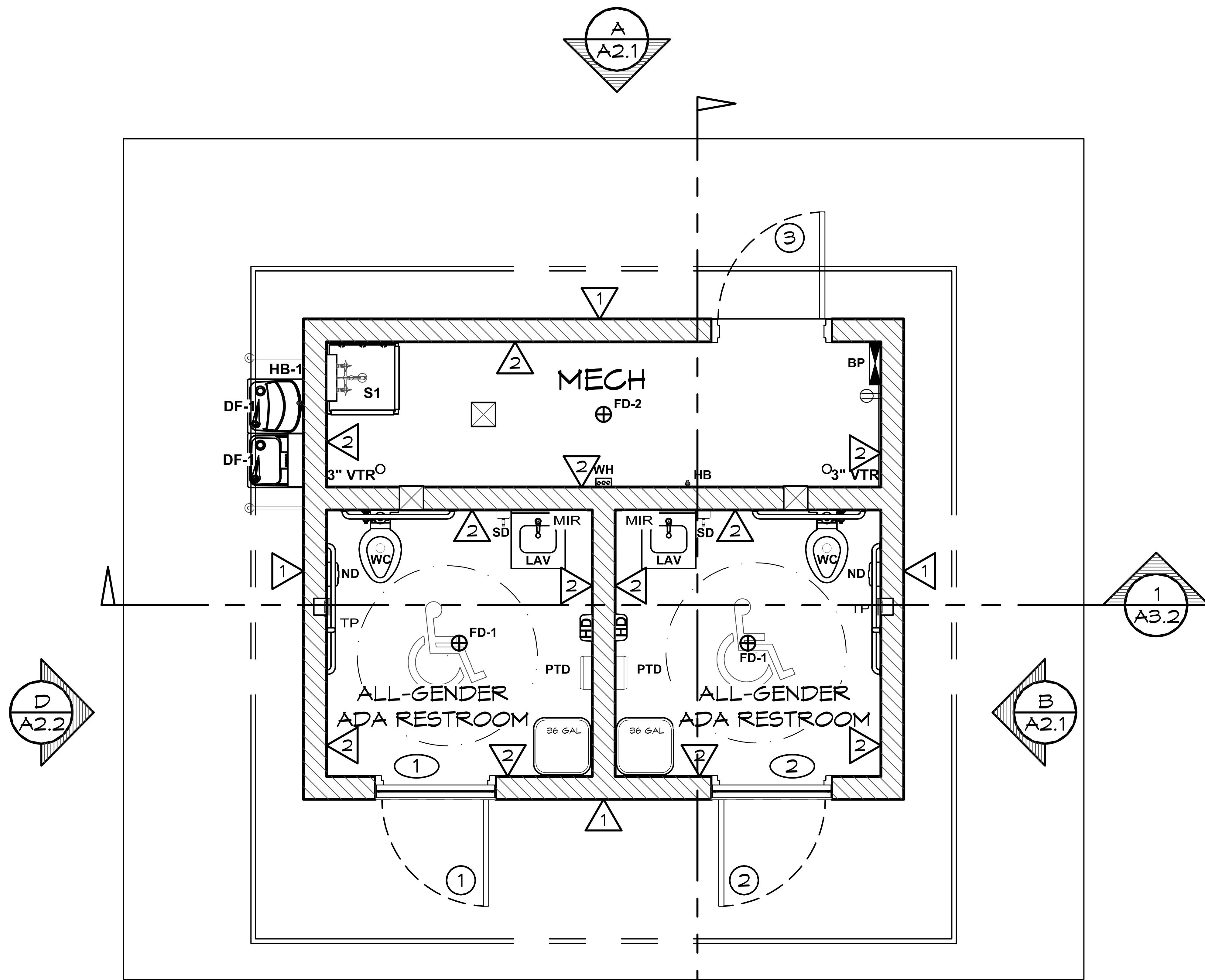
1 SECTION VIEW
SCALE: 1/4" = 1'-0"

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PLAN SET# WESO1		ROMTEC <small>ASTEL ENGINEERING</small> 26030 Acero, Suite 200 949.305.1150 Mission Viejo, CA 92691 www.asteleng.com
DATE: 11/01/2023		SHEET TITLE: BUILDING SECTIONS
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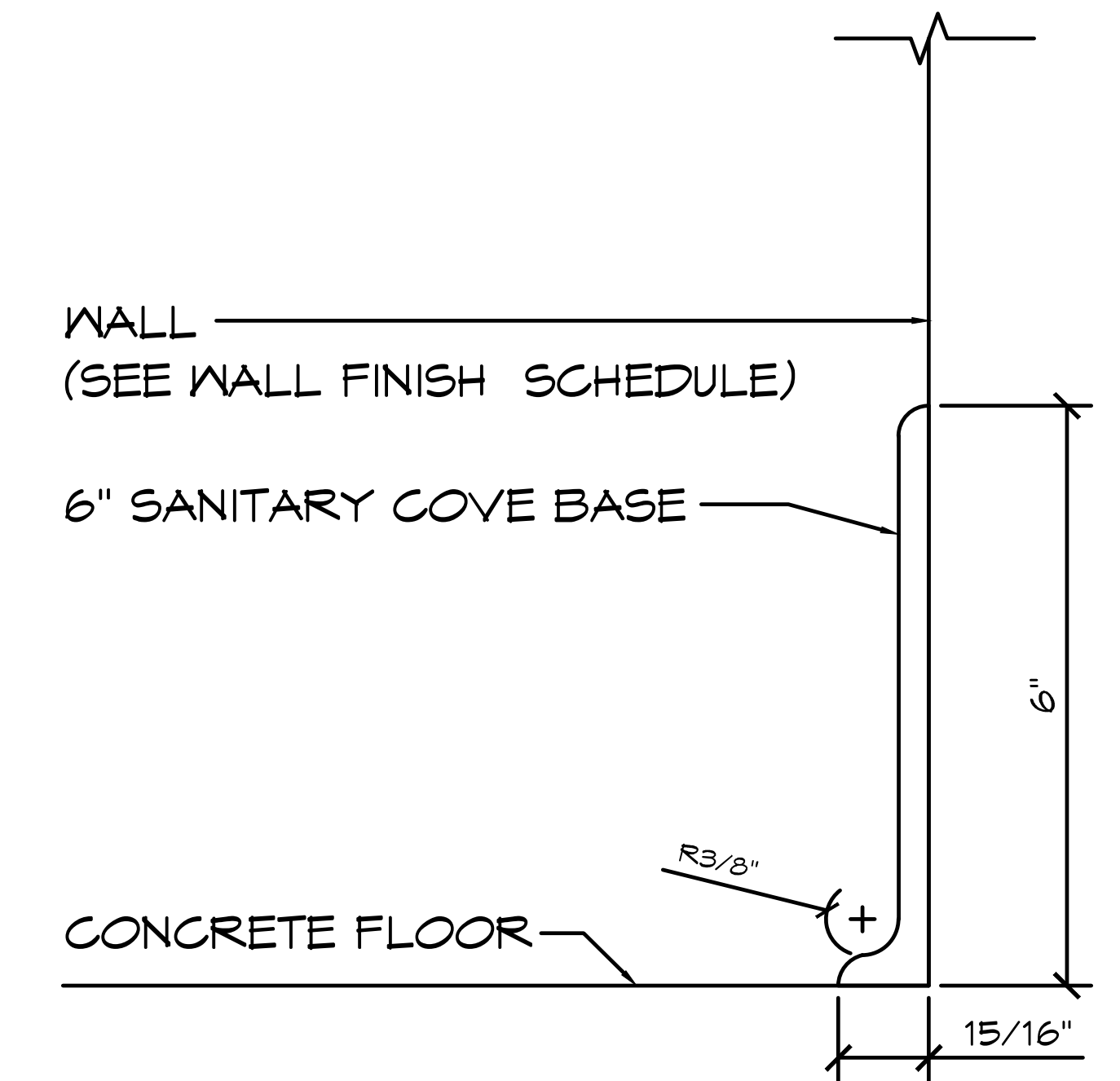


SHEET NO. **A3.2**

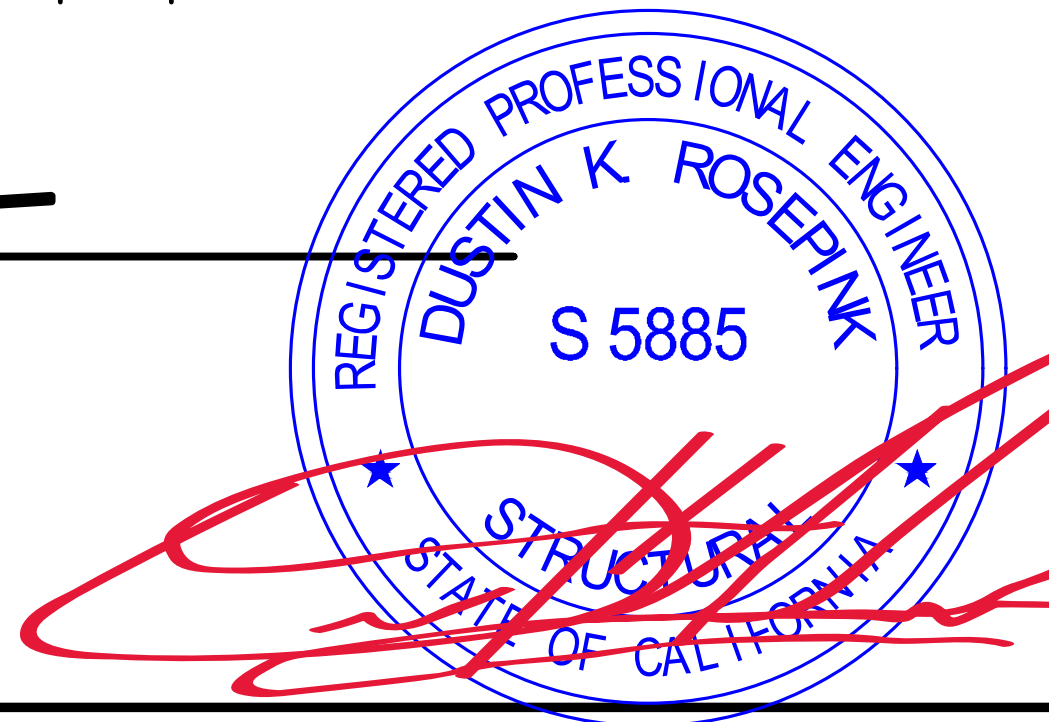


1 WALL FINISH PLAN
 SCALE: 1/4" = 1'-0"
 A B
 C D

FINISH SCHEDULE			
NO.	LOCATION	FINISH	DETAIL
1	EXTERIOR WALL	8" SPLIT FACE REINFORCED CONCRETE MASONRY BLOCK WALL W/ MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.	
2	INTERIOR WALL	PRIMED & (2) COATS OF EPOXY PAINT CMU WALLS FLOOR TO CEILING (INSTALLER SUPPLIED)	
	CEILING	2X6 T&G & GLULAMS TO BE SEALED WITH CLEAR COAT (INSTALLER SUPPLIED)	
	FLOOR	CONCRETE WITH A WATER BASED CONCRETE SEALER (PROVIDED BY INSTALLER)	
	COVE BASE IN RESTROOMS ONLY	SANITARY TILE COVE BASE	DETAIL 2/A4.1



2 COVE DETAIL
 SCALE: 3" = 1'-0"



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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM
 WEST CAMPUS
 SACRAMENTO, CALIFORNIA
 SHEET TITLE: WALL FINISH SCHEDULE (INTERIOR/EXTERIOR)

PLAN SET#	NES01		
DATE:	11/01/2023		
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REV.	DATE:	BY	
3	02-15-2024	CR	
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SHEET NO. **A4.1**

DOOR SCHEDULE

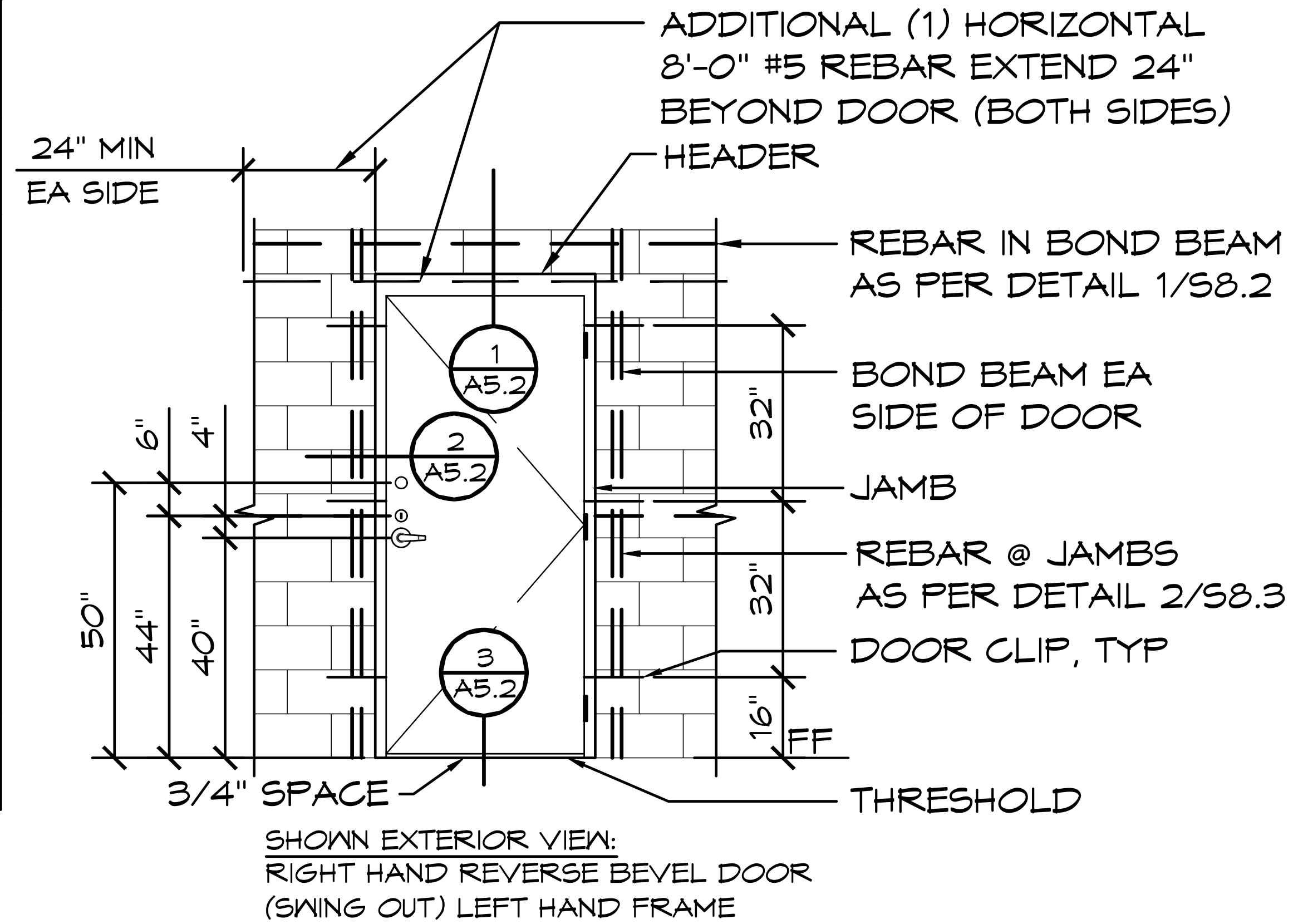
NO	SIZE (WxHxT)	DOOR	FRAME	SWING - DOOR / FRAME	HARDWARE GROUP	REMARKS
1	36"x84"x1 3/4"	SL18	F16	INTERIOR RIGHT HAND (REVERSE) SWING OUT / LEFT HAND	DO~ 1	DOOR DETAIL 1a
2	36"x84"x1 3/4"	SL18	F16	INTERIOR LEFT HAND (REVERSE) SWING OUT / RIGHT HAND	DO~ 1	DOOR DETAIL 1a
3	36"x84"x1 3/4"	SL18	F16	INTERIOR LEFT HAND (REVERSE) SWING OUT / RIGHT HAND	DO~ 2	DOOR DETAIL 1b

ALL DOOR ~ FACTORY PRIMED (INSTALLER TO PAINT ONSITE)

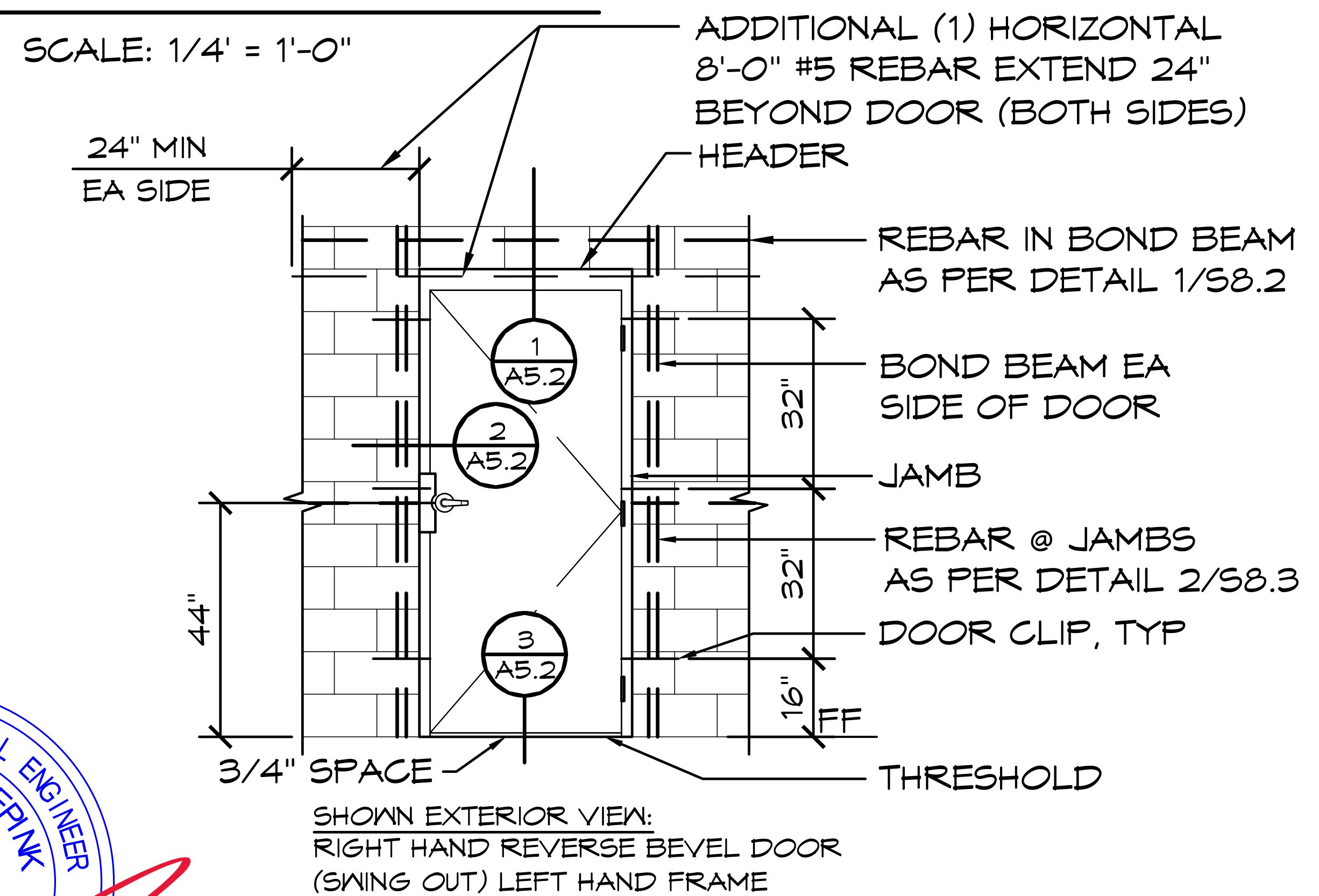
DOOR HARDWARE SCHEDULE (QTY'S PER DOOR)

GROUP DO-1	GROUP DO-2	DESCRIPTION
3	3	EACH HINGE 4.5" x 4.5" S.S. (NRP)
1	1	DOOR CLOSER, (USE THRU BOLT ANCHORING OPTION)
1	-	INTERCONNECTED LEVER LOCKSET W/ OCCUPANCY INDICATOR, HAGER - CORRIDOR - (KEY - OUTSIDE / PUSH BUTTON - INSIDE)
1	-	DEADBOLT LOCKSET, SCHLAGE C KEYWAY - ONE-WAY DEADBOLT LOCK, SATIN FINISH - (KEY - OUTSIDE / BLANK - INSIDE)
-	1	LEVER LOCKSET, HAGER - CLASSROOM - (KEY - OUTSIDE / ALWAYS OPEN - INSIDE)
-	1	LATCH GUARD - HAGER
6	6	WIRE DOOR CLIPS

NOTE: THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS, WITH SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. WHEN FIRE DOORS ARE UTILIZED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO NOT EXCEED 15 POUNDS. SECTION 11B-404.2.9.



1a DOOR DETAILS
SCALE: 1/4' = 1'-0"



1b DOOR DETAILS
SCALE: 1/4' = 1'-0"

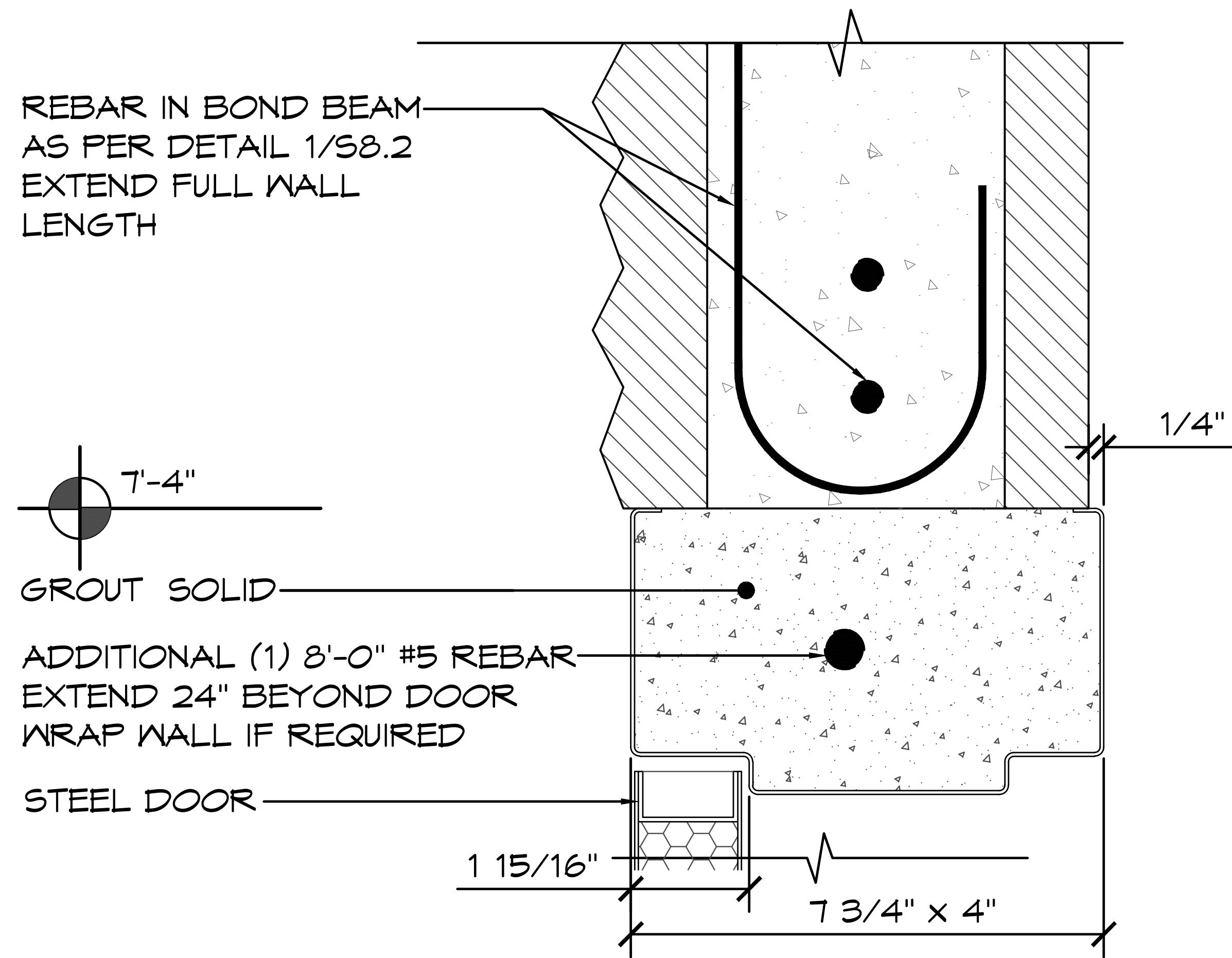


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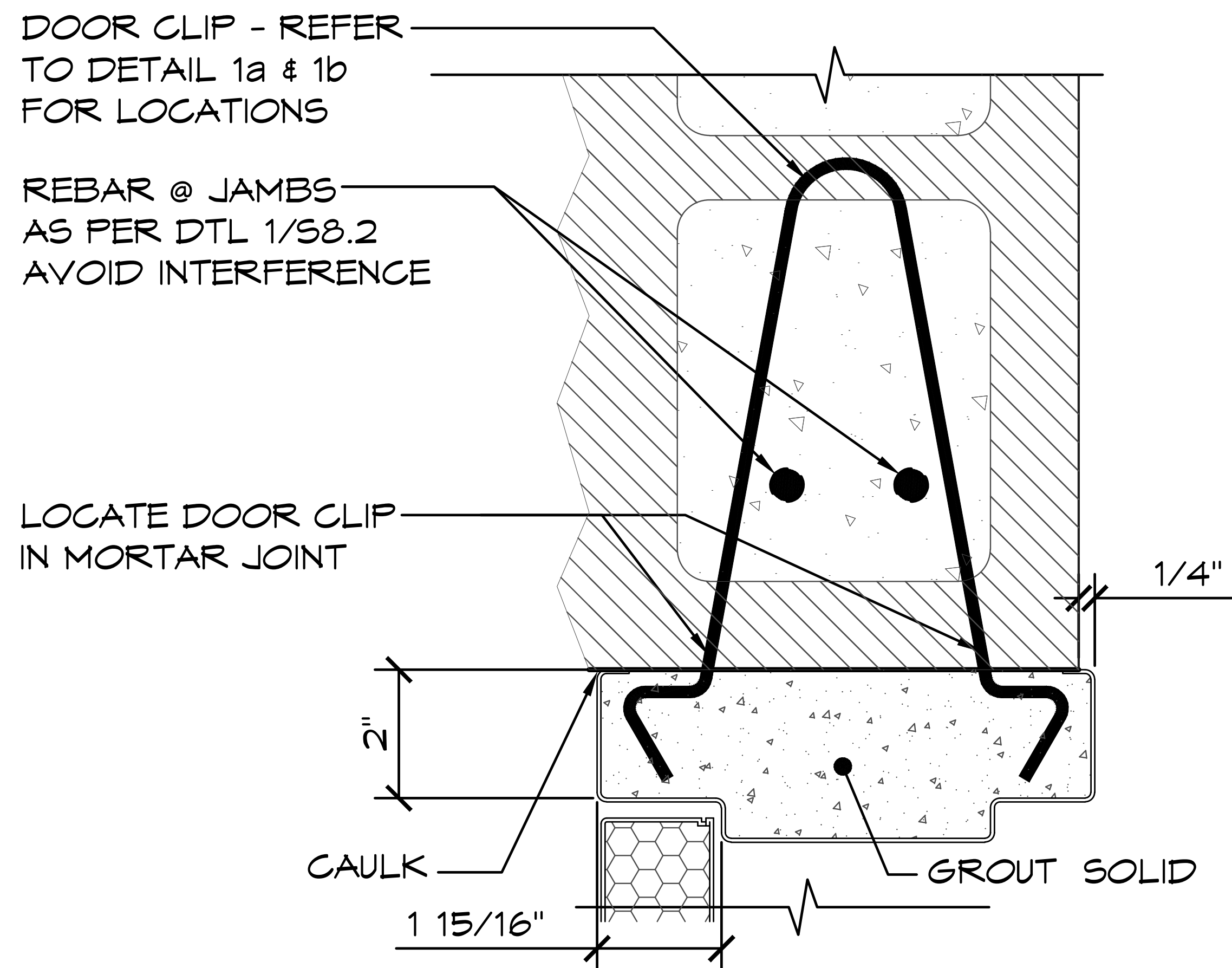
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WEST CAMPUS SACRAMENTO, CALIFORNIA
 SHEET TITLE: DOOR SCHEDULE
 PLAN SET# **NES01**
 DATE: **11/01/2023**
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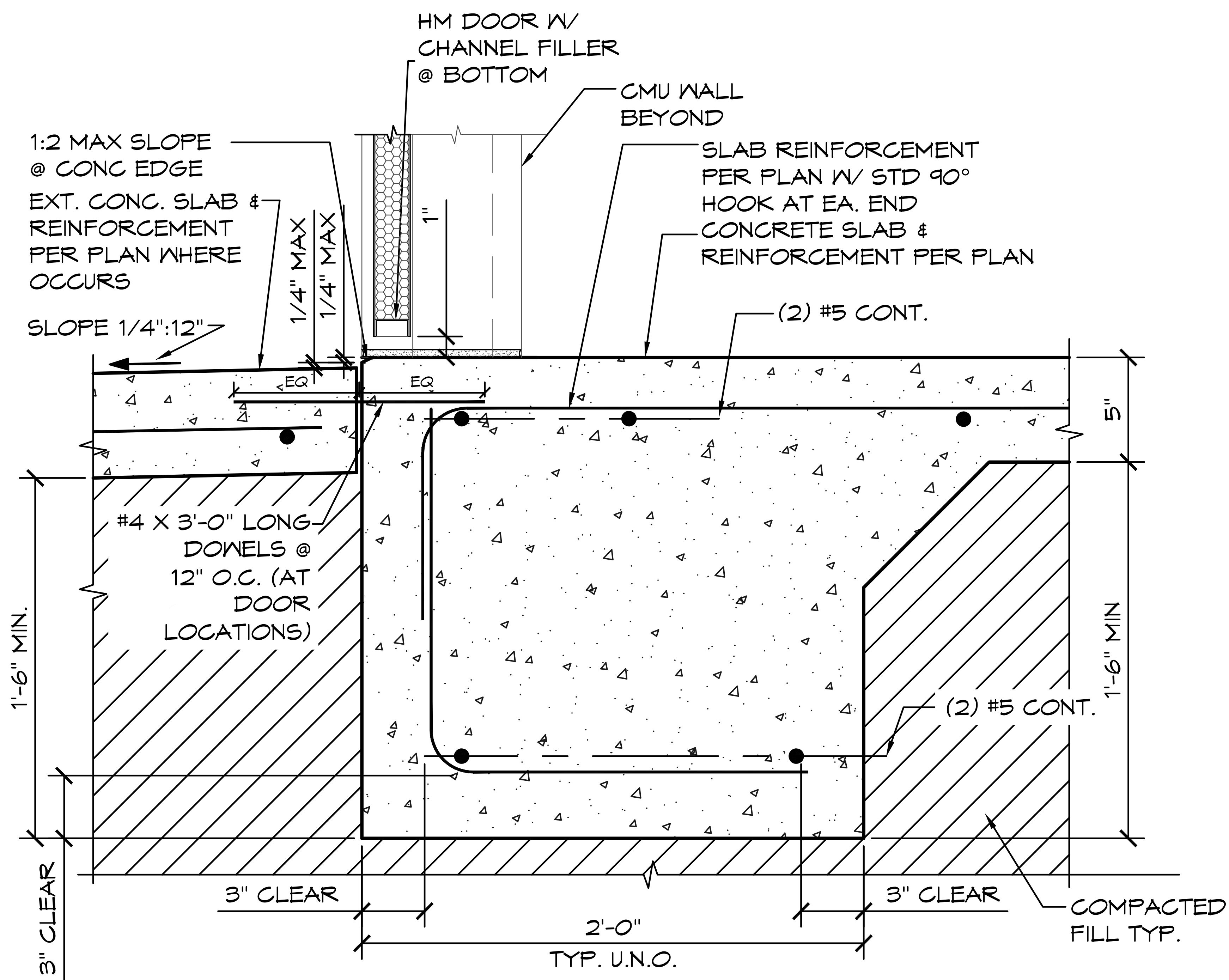
SHEET NO. **A5.1**



1 **HEADER DETAIL**
SCALE: 6" = 1'-0"



2 **JAMB DETAIL**
SCALE: 3" = 1'-0"



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



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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM
**WEST CAMPUS
SACRAMENTO, CALIFORNIA**
SHEET TITLE: **DOOR DETAILS**

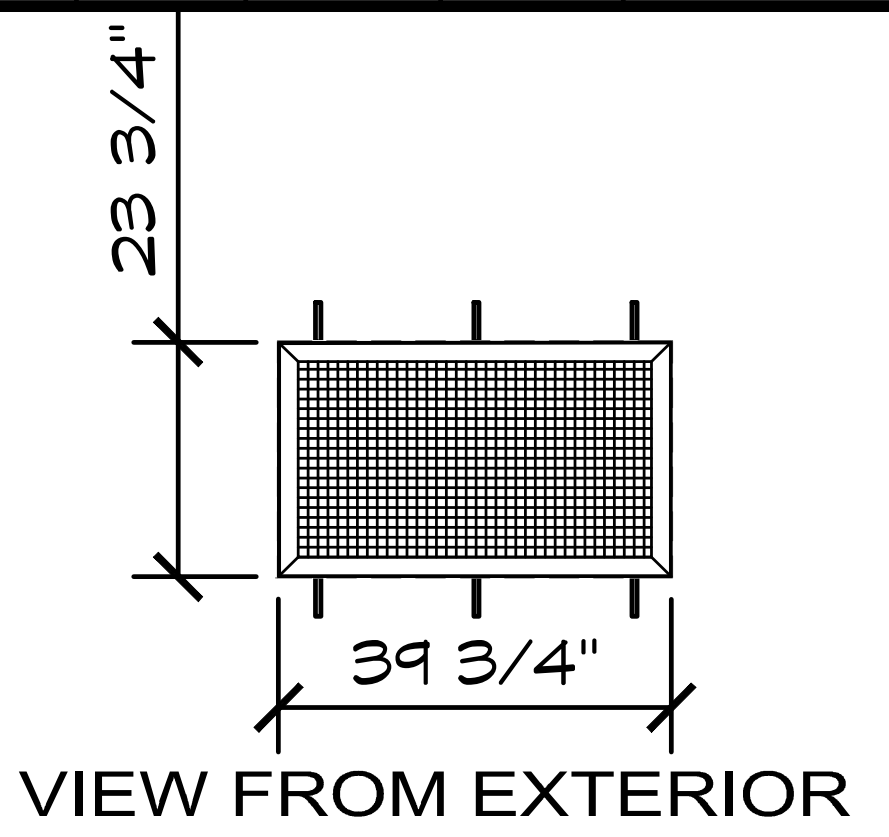
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DATE:	11/01/2023		
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SHEET NO. **A5.2**

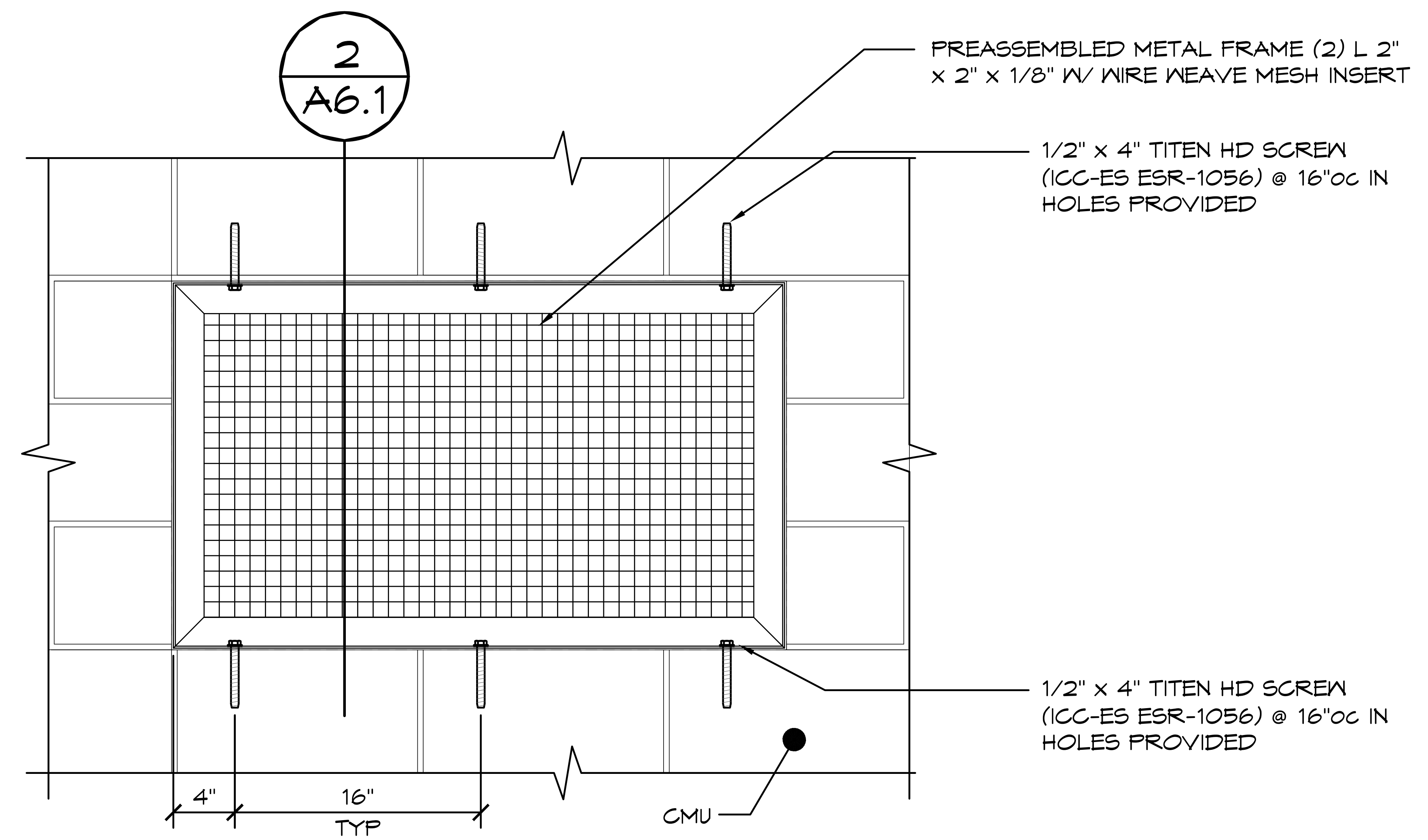
VENT AND/OR WINDOW SCHEDULE

NO	DIMENSIONS	PITCH	INSERT	ROMTEC PRODUCTION #	DIRECTION PER PRODUCTION	FASTENERS			REFERENCE / DETAILS
						SILL	TOP	HYP	
1	39 3/4" x 23 3/4"	N/A	WIRE MESH	PRODUCTION # XN-000-1025		3	3	-	STEEL FRAME
2	39 3/4" x 23 3/4"	N/A	WIRE MESH	PRODUCTION # XN-000-1025		3	3	-	STEEL FRAME

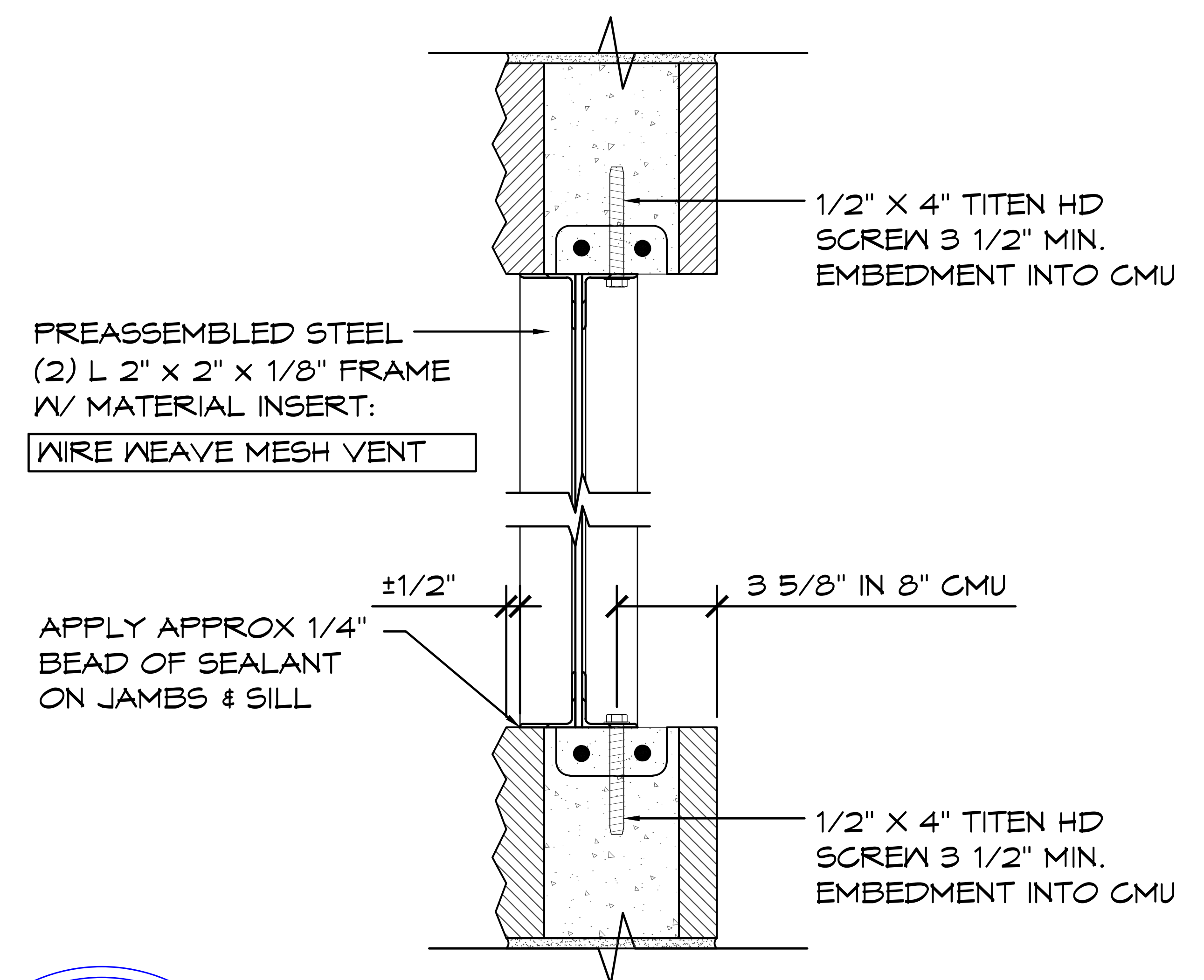
HARDWARE (QUANTITY PER SCHEDULE)		
SILL	1/2" x 4"	TITEN HD SCREW (ICC-ES ESR-1056)
TOP	1/2" x 4"	TITEN HD SCREW (ICC-ES ESR-1056)



NOTE: DURING THE CONSTRUCTION PROCESS IT IS COMMON FOR SMALL GAPS TO APPEAR IN ANY NUMBER OF PLACES. ROMTEC DOES NOT PROVIDE CAULK OR ANY OTHER MATERIAL TO FILL THESE SMALL GAPS UNLESS IT IS SPECIFIED IN OUR SUBMITTAL



1 VENT DETAIL
SCALE: 1" = 1'-0"



2 SECTION VIEW (SIDE)
SCALE: 1 1/2" = 1'-0"



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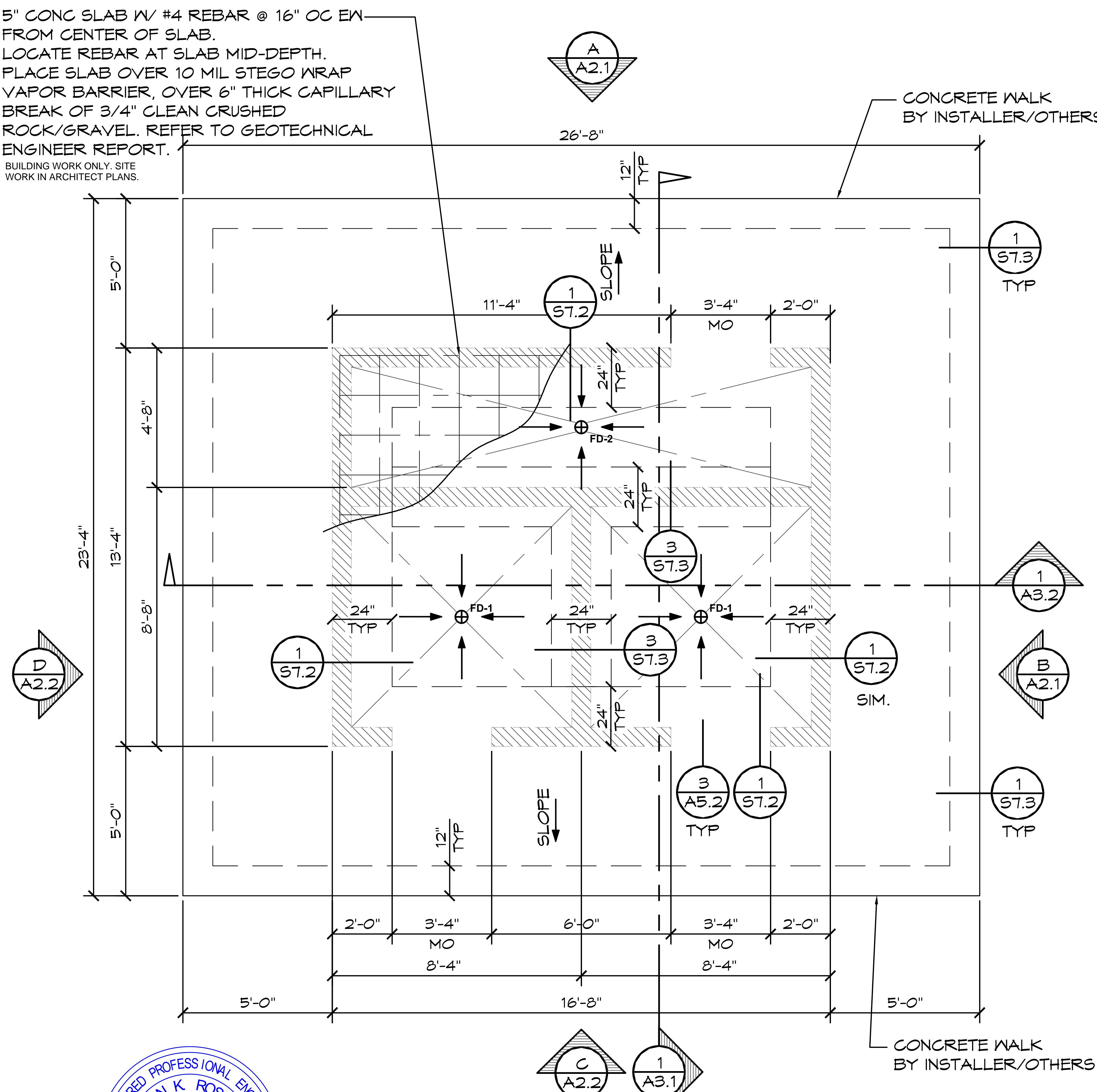
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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM
WEST CAMPUS
SACRAMENTO, CALIFORNIA
 SHEET TITLE: VENT SCHEDULE & DETAILS

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SHEET NO. **A6.1**

5" CONC SLAB W/ #4 REBAR @ 16" OC EN FROM CENTER OF SLAB.
 LOCATE REBAR AT SLAB MID-DEPTH.
 PLACE SLAB OVER 10 MIL STEGO WRAP VAPOR BARRIER, OVER 6" THICK CAPILLARY BREAK OF 3/4" CLEAN CRUSHED ROCK/GRAVEL. REFER TO GEOTECHNICAL ENGINEER REPORT.
 BUILDING WORK ONLY. SITE WORK IN ARCHITECT PLANS.



WALL TYPE SCHEDULE

8" REINFORCED CONCRETE MASONRY BLOCK WALL WITH MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.

FINISH SLAB WITH A WATER BASED CONCRETE SEALER (PROVIDED BY INSTALLER)

RECYCLE

RECYCLE ALL USED SHIPPING MATERIALS AND LEFT OVER BUILDING MATERIALS

NOTES:

CONCRETE:

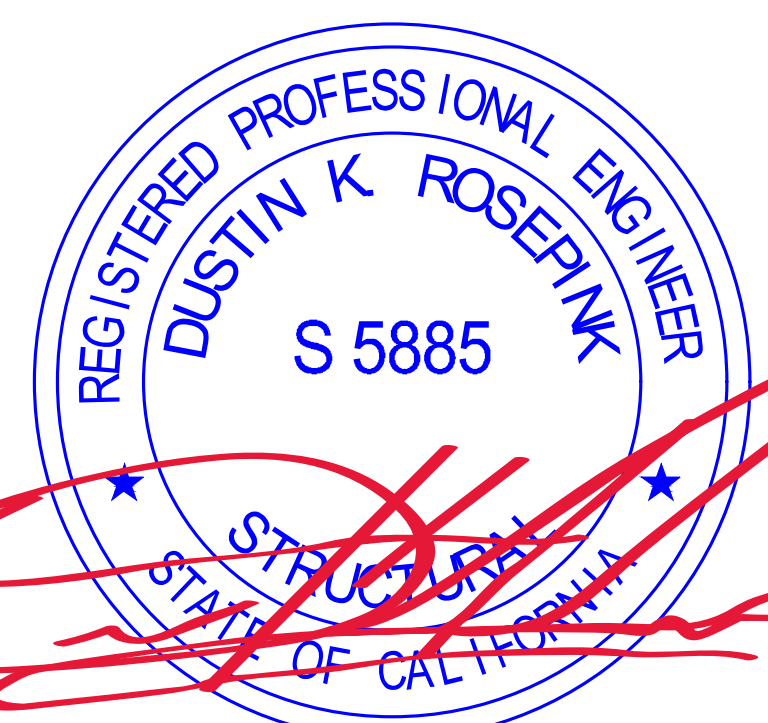
1. FINISH FLOOR SLOPE IS 2% (1/4" PER FT) MAX & 1% (1/8" PER FT) MIN
2. PROVIDE BLOCK-OUTS FOR PLUMBING, MECHANICAL, & ELECTRICAL AS REQD. CO-ORDINATE W/ SUBS.
6. SAW JOINTS BY CONTRACTOR. SLAB APPEARANCE IS A PRIORITY. LOCATE JOINTS AT 10' O.C. MAX. SEE 2/S7.3.
11. CONCRETE SLAB BENEATH FLOOR MOUNTED FIXTURES IS TO BE GROUTED LEVEL AND SMOOTH.

MASONRY:

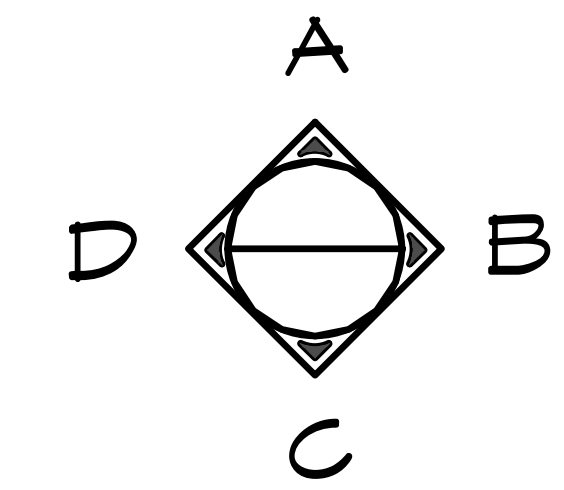
12. PROVIDE BLOCK-OUTS FOR PLUMBING, MECHANICAL, & ELECTRICAL AS REQD. CO-ORDINATE W/ SUBS.
13. CONSOLIDATE GROUT AT THE TIME OF PLACEMENT. CONSOLIDATE POURS EXCEEDING 12 IN. IN HEIGHT BY MECHANICAL VIBRATION, AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED. CONSOLIDATION AND RECONSOLIDATION ARE NORMALLY ACHIEVED WITH A MECHANICAL VIBRATOR. A LOW VELOCITY VIBRATOR WITH A 3/4 IN. HEAD IS USED.
14. GROUT SLUMP IS TO BE BETWEEN 9" +/- 1" SLUMP.

SOIL PREP.:

15. MAXIMUM SLOPE OF EXCAVATION MAY BE LIMITED BY LOCAL SOIL CONDITIONS. INCREASE DEPTH OF FORMED CONCRETE AS REQD. REFER TO GEOTECHNICAL REPORT.
16. UNDER FOOTINGS: UNDISTURBED NATIVE SOIL OR 12" FILL COMPACTED TO 90% ASTM D 1557 TO MEET OR EXCEED ALLOWABLE BEAR PRESSURE ON SHEET G2.
17. REFER TO GEOTECHNICAL REPORT FOR SOILS SUBGRADE PREPARATION RECOMMENDATIONS.



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



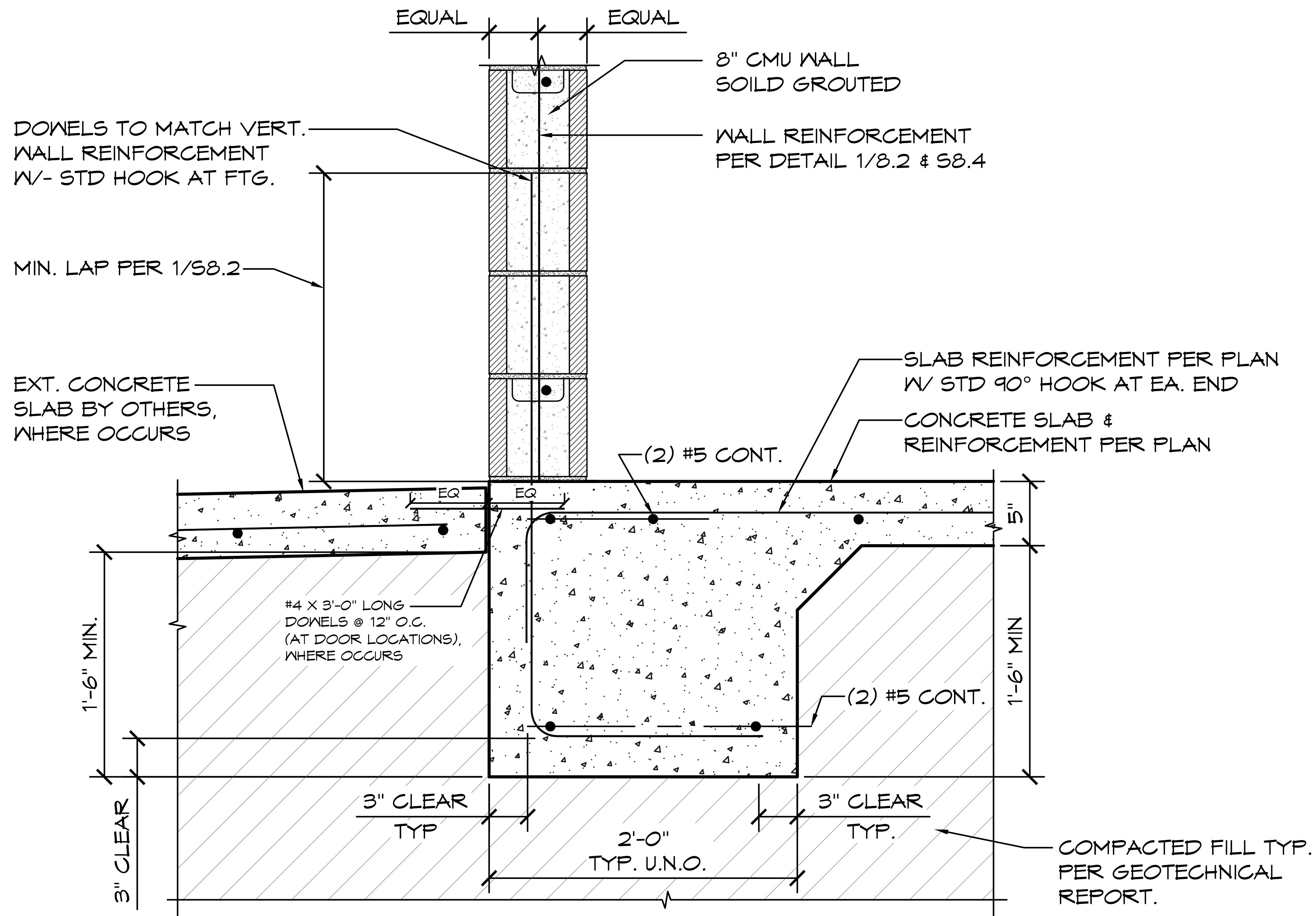
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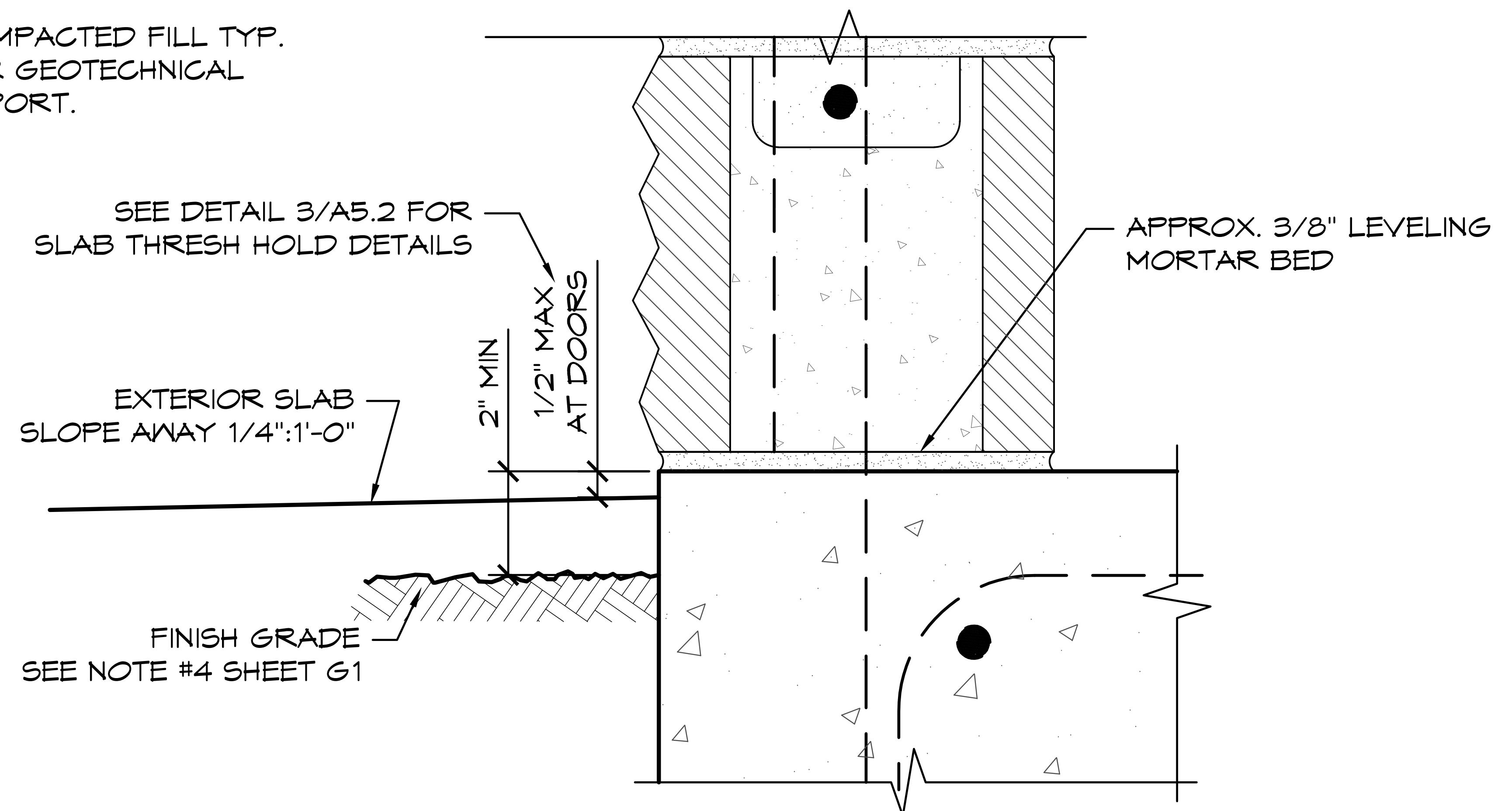
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SHEET NO. **S7.1**



1 TYP. CMU WALL FTG
SCALE: 1" = 1'-0"



2 WALL-SLAB CONNECTION
SCALE: 3" = 1'-0"



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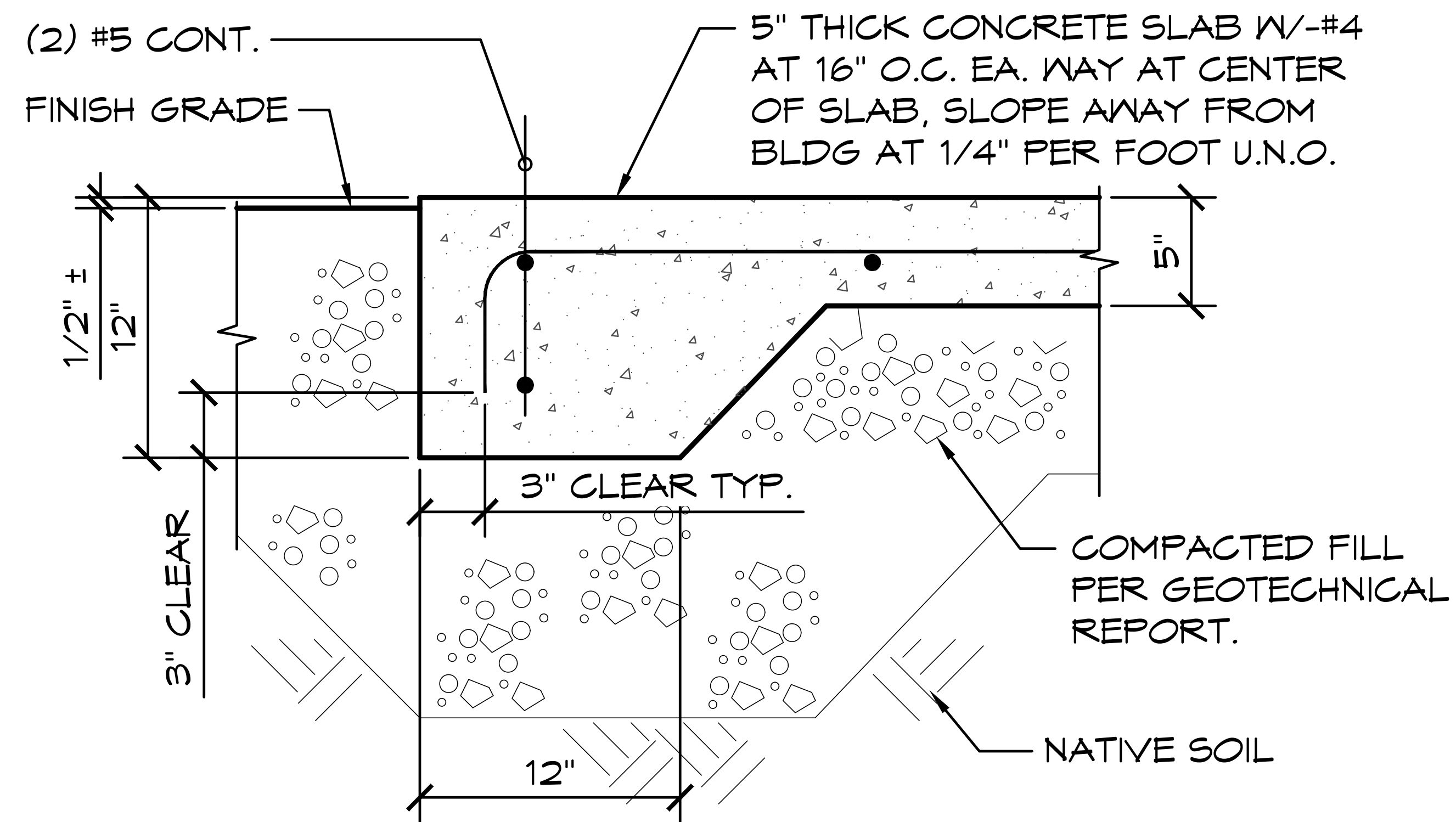
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WEST CAMPUS
SACRAMENTO, CALIFORNIA

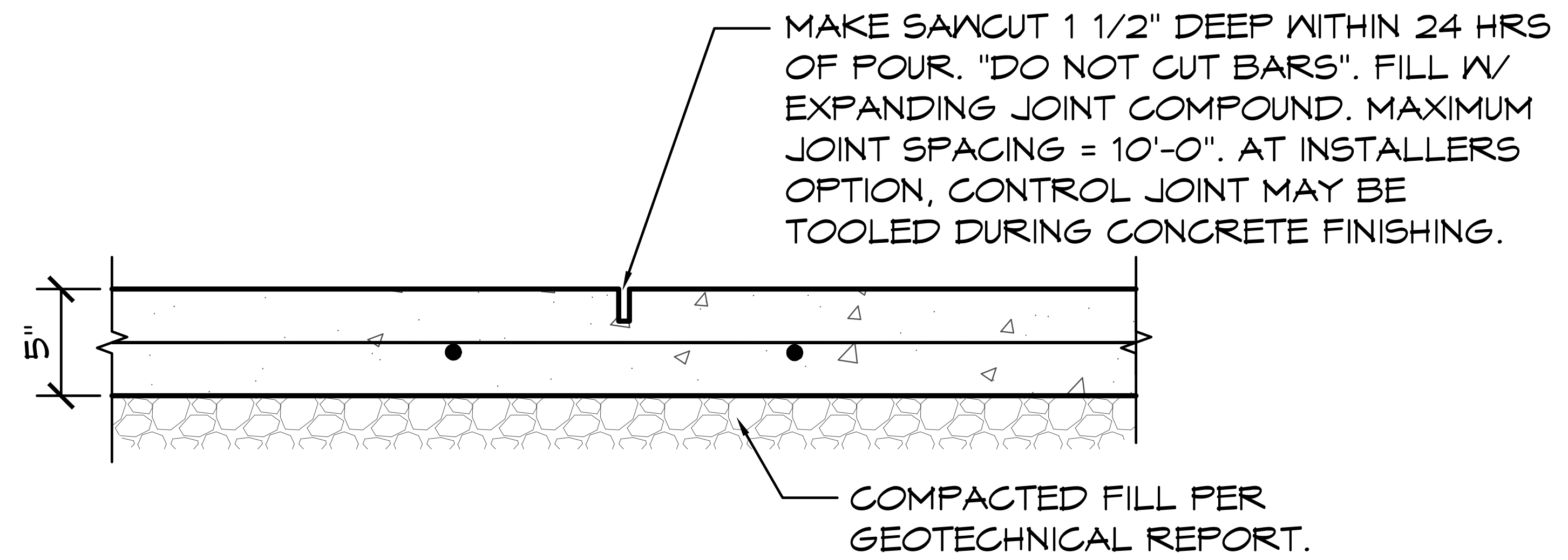
SHEET TITLE: FOUNDATION

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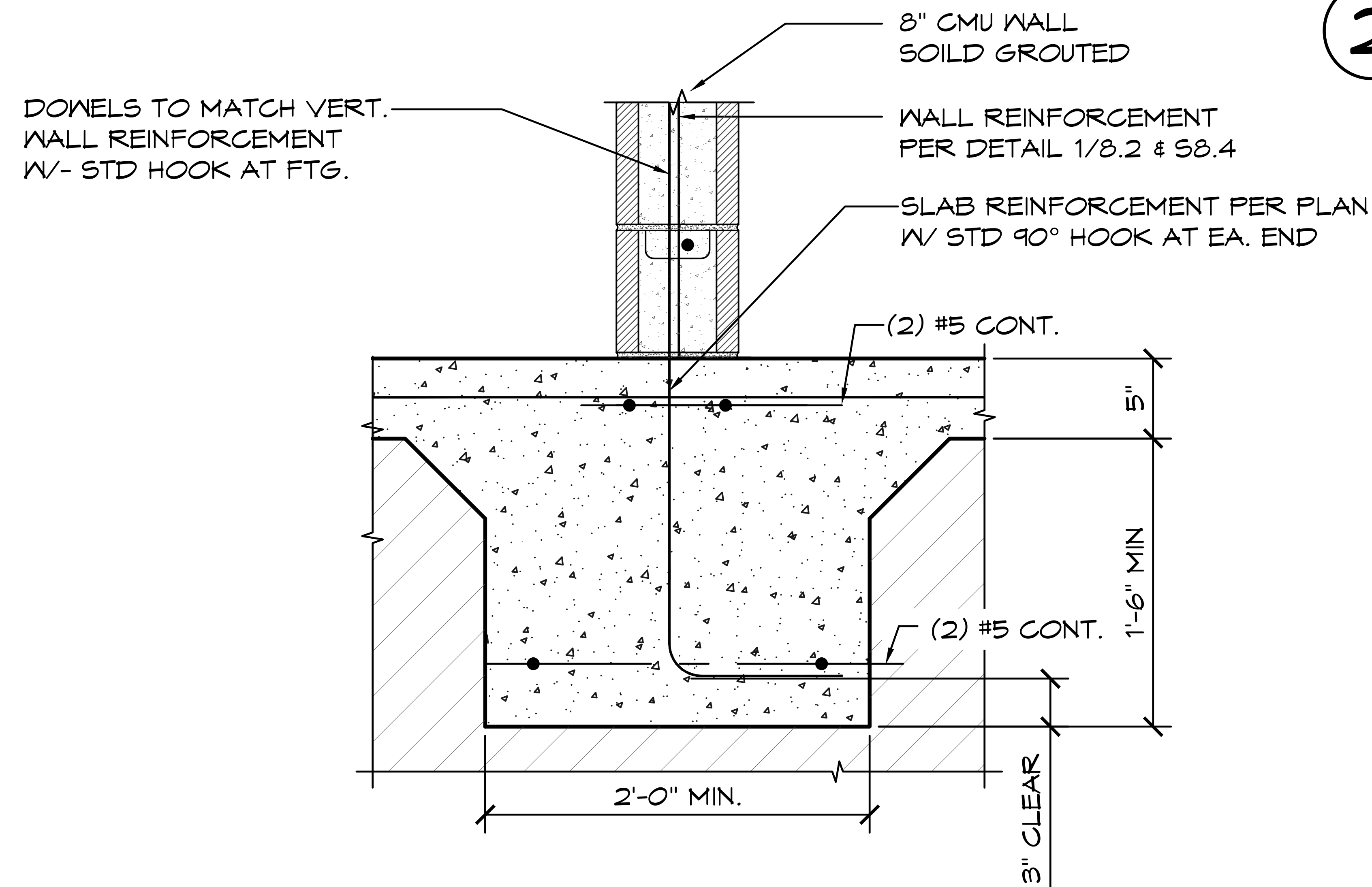
SHEET NO. **ST.2**



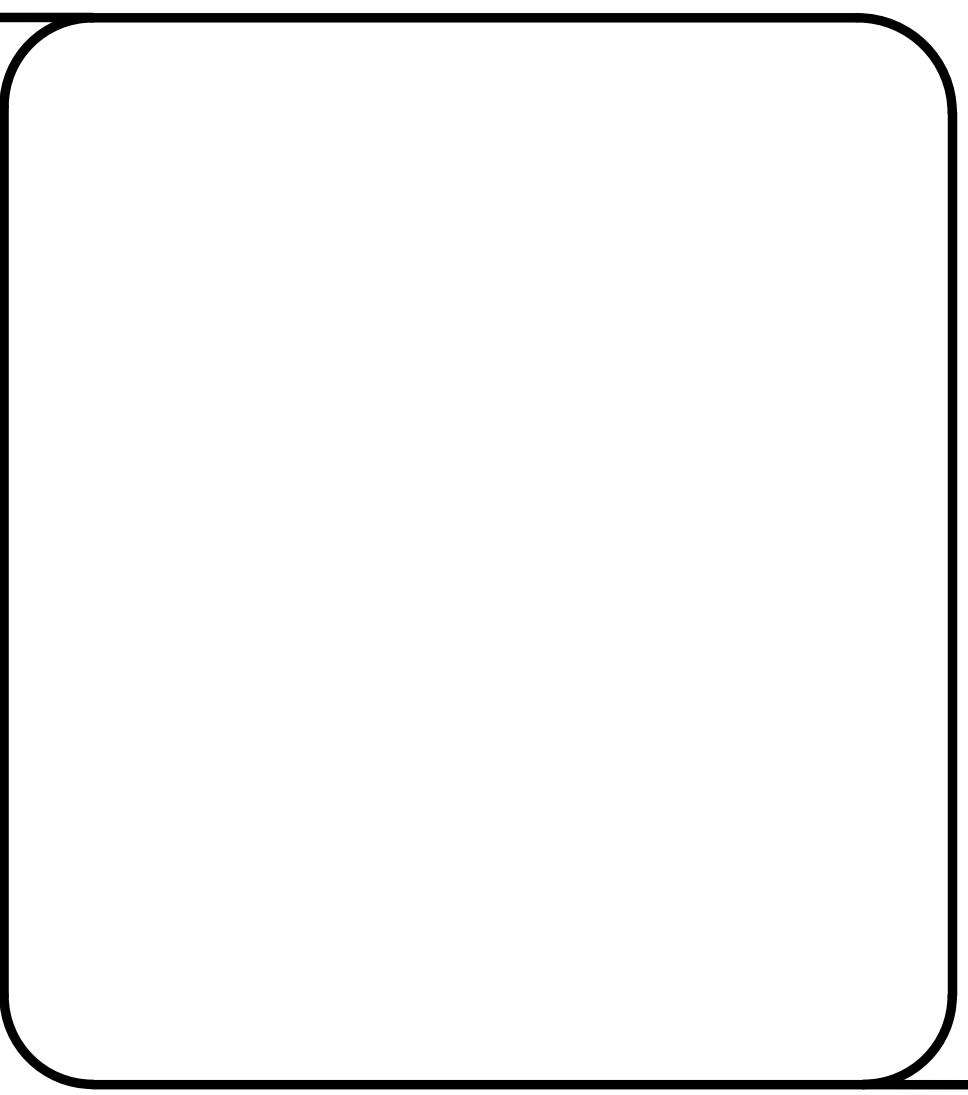
1 **EDGE OF CONG SLAB**
SCALE: 1" = 1'-0"



2 **SAWCUT JOINT**
SCALE: 1" = 1'-0"



3 **TYP. INTERIOR CMU WALL FTG**
SCALE: 1" = 1'-0"



MAKE SAWCUT 1 1/2" DEEP WITHIN 24 HRS OF POUR. "DO NOT CUT BARS". FILL W/ EXPANDING JOINT COMPOUND. MAXIMUM JOINT SPACING = 10'-0". AT INSTALLERS OPTION, CONTROL JOINT MAY BE TOOLED DURING CONCRETE FINISHING.

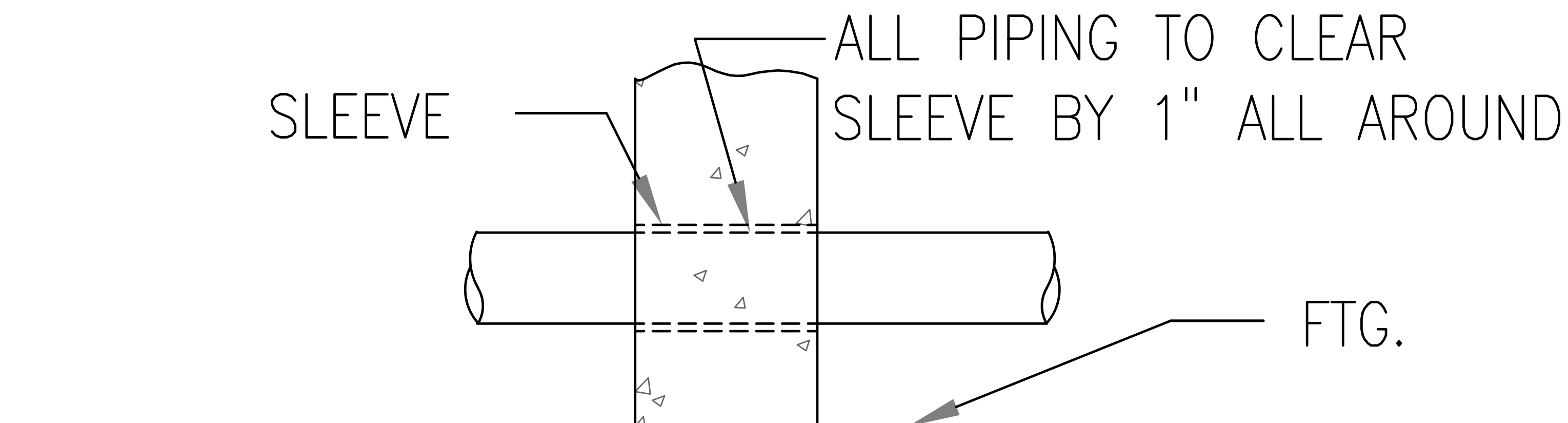


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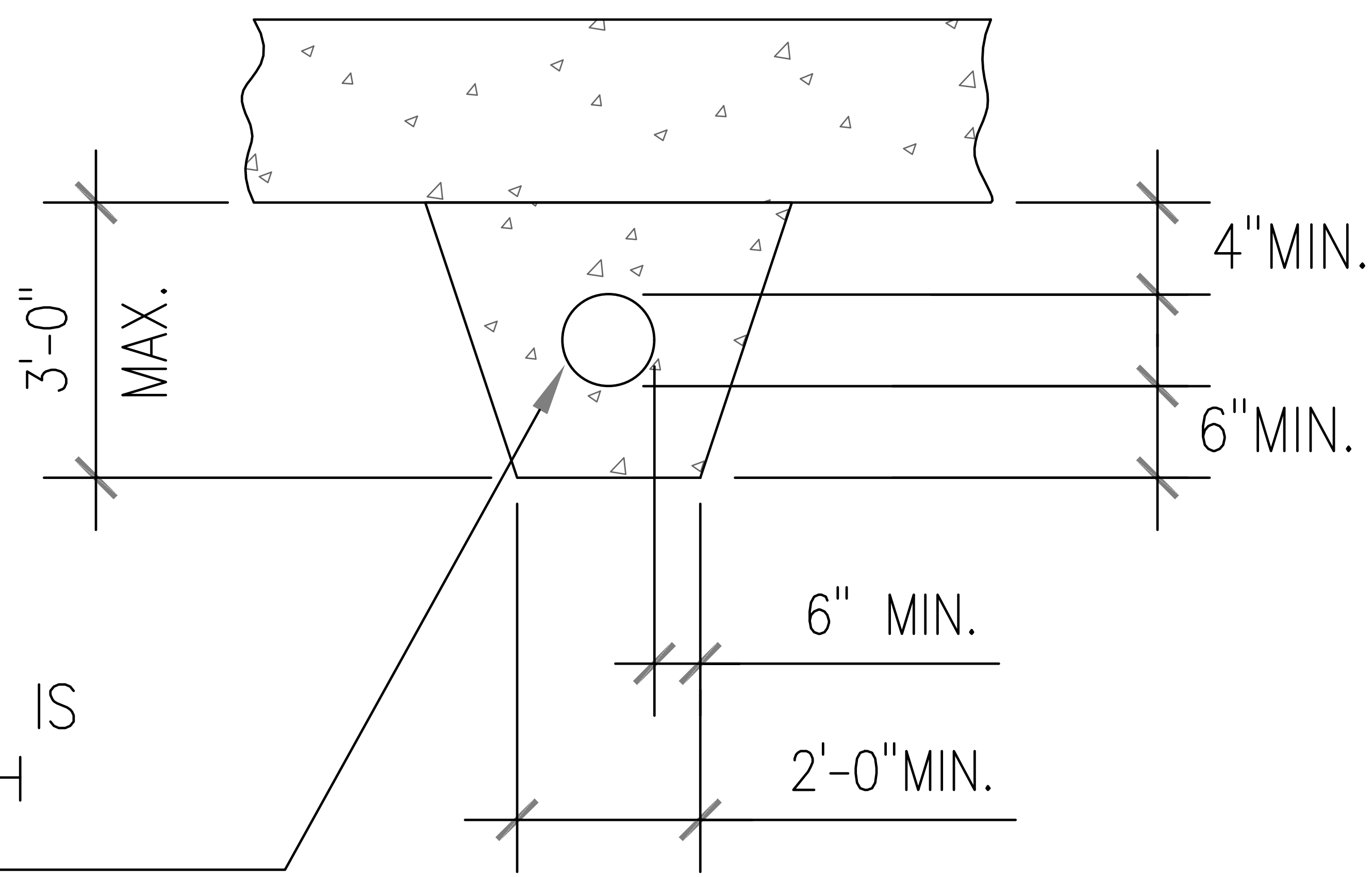
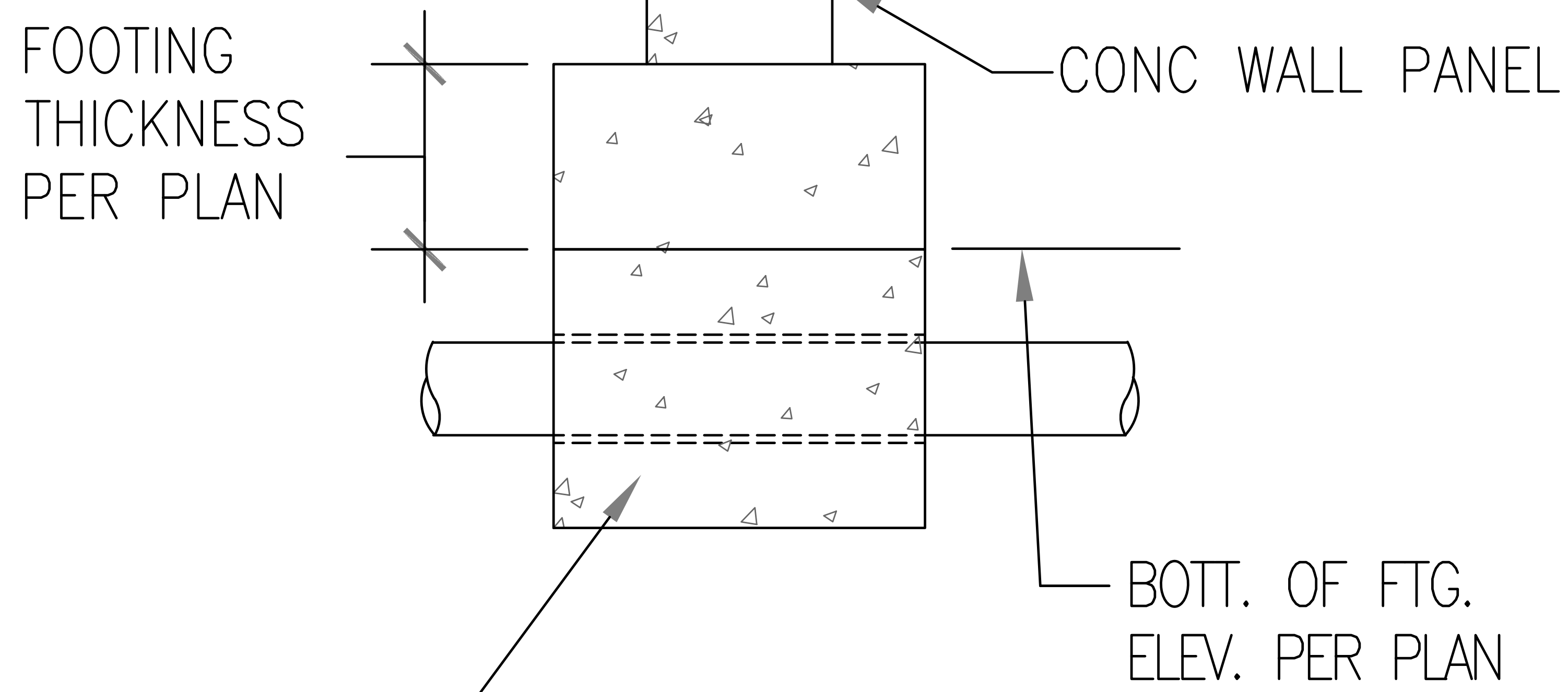
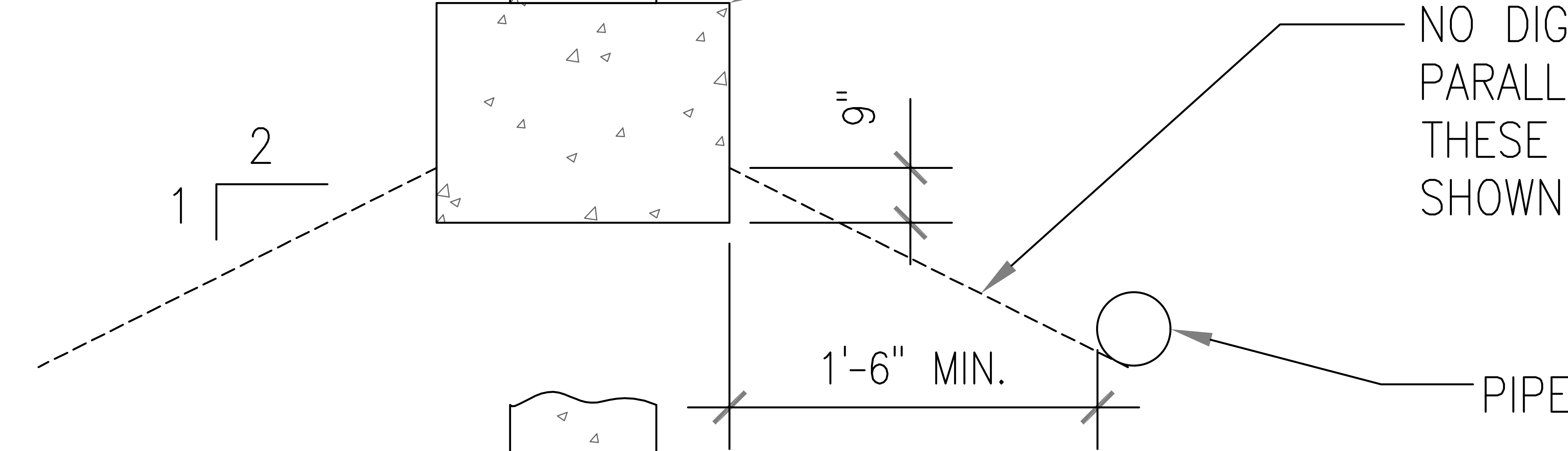
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PLAN SET# WES01		
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SHEET NO.

S7.3



CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING THE SIDES OF THE EXCAVATION PRIOR TO BACK FILLING



1 PIPES UNDER FOOTING DETAIL
SCALE: 3/8" = 1'-0"



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WEST CAMPUS
SACRAMENTO, CALIFORNIA
SHEET TITLE: FOUNDATION DETAILS

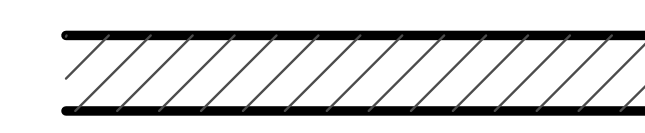
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SHEET NO. **S7.4**

8" CMU WALLS SOLID
GROUTED REINFORCED
WV-#4 AT 24" O.C. EA. WAY

8" CMU WALLS SOLID
GROUTED REINFORCED
WV-#4 AT 24" O.C. EA. WAY

WALL TYPE SCHEDULE

 8" REINFORCED CONCRETE MASONRY
BLOCK WALL WITH MORTAR JOINTS,
GROUTED SOLID ALL CELLS RUNNING
BOND PATTERN.

NOTE:
FIXTURES AND ACCESSORIES ARE
DIMENSIONED ON A1.3

THE CMU BLOCK LAYOUT SHALL BE PER
THE BLOCK LAYOUT PLANS IN THE:
"FINAL"
ROMTEC SCOPE OF SUPPLY AND
DESIGN SUBMITTAL

3
S8.3
8" TO 8" CMU
INTERSECTION,
TYP.

1
A3.2

B
S8.4

1
S8.3
CORNER OF
CMU, TYP.

2
S8.3
END OF
CMU, TYP.

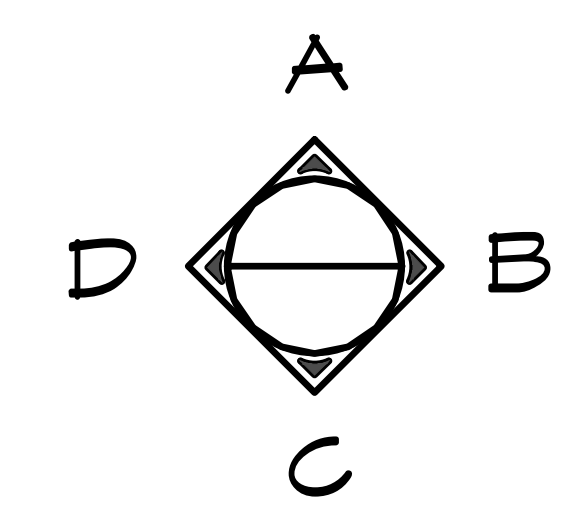
D
S8.4

A
S8.4

C
S8.4

1
A3.1

1 STRUCTURAL CMU PLAN
SCALE: 1/4" = 1'-0"



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WEST CAMPUS
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SHEET TITLE: STRUCTURAL CMU PLAN

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SHEET NO. S8.1

(2) #4 REBAR @ TOP COURSE
 (2) ADDITIONAL #4 REBAR
 EXTEND 24" BEYOND DOOR OPENINGS
 VERTICAL #4 REBAR @ 24"oc
 HORIZONTAL #4 REBAR @ 24"oc
 #4 REBAR ALL SIDES OF
 OPENINGS

1
S8.3

NOT SHOWN: (2) #4 REBAR ABOVE &
 BELOW MAJOR OPENINGS (>2'-0"
 WIDE EXCEPT DOOR OPENINGS)

NOTE: HORIZONTAL REBAR TO GO
 AROUND VERTICAL REINFORCEMENT
 WITH STANDARD BEND AT ALL CORNERS,
 AND HORIZ REBAR TO BEND UP OR DOWN
 AND LAP VERTICAL REBAR AT ALL OPENING
 LOCATIONS AS PER DETAILS ON S8.3

2
A5.2

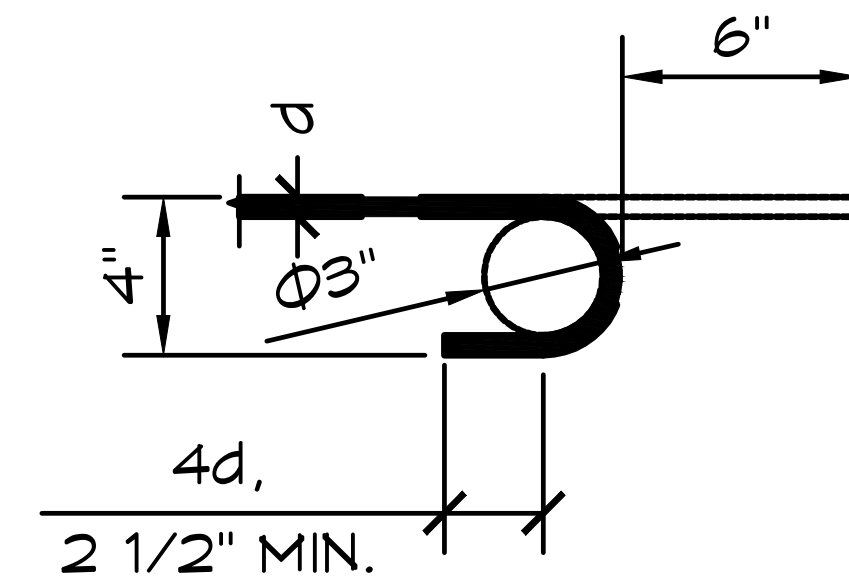
1st COURSE
 HORIZONTAL
 REBAR BEND UP

F.F.

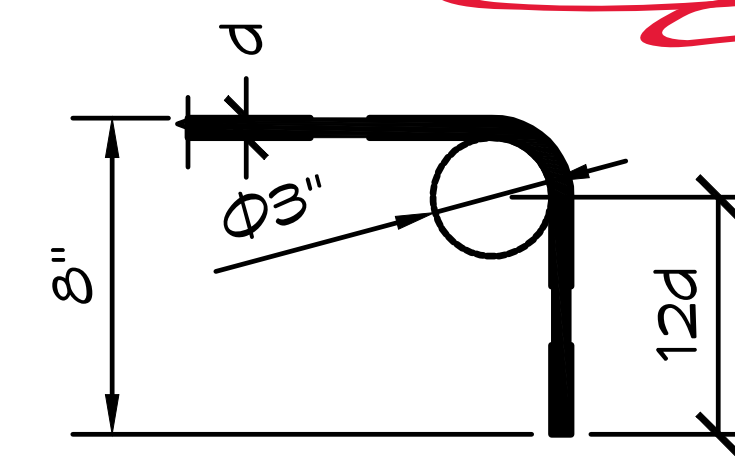
1 **CMU REBAR LAYOUT DETAIL**
 SCALE: 1/2" = 1'-0"

D = FINISHED INSIDE BEND DIAMETER
 (INCLUDES SPRING BACK)

d = BAR DIAMETER



180°



90°

CMU REBAR SCHEDULE		
REBAR	MIN. LAP	STD. HOOK INSIDE BEND DIA
#4	24"	3" MIN.

CMU REBAR NOTES:
 - BENDS: MIN. INSIDE BEND DIAMETER FOR
 STANDARD HOOKS SHALL BE NOT LESS
 THAN 6d AS PER TMS 402/602-2016
 TABLE 6.1.8
 - SPLICES: LAP SPLICES ARE PERMITTED
 AS PER TMS 402/602-2016 SECTION 6.1.6,
 AS MODIFIED BY 2022 CBC SECTIONS
 2107A & 2108A

PIPES INSTALLED THROUGH CMU WALL NOTES:
 - SUPPLY: THE FIXTURE SUPPLY LINE SHOULD
 BE BORED A 1/2" LARGER THAN REQUIRED
 LINE SIZE AND THE PORTION OF PIPE LOCATED
 IN CMU WALL SHALL BE WRAPPED WITH 10MIL
 BLACK TAPE
 - WASTE PIPE: THE FIXTURE WASTE LINE
 SHOULD BE BORED A 1/2" LARGER THAN
 REQUIRED LINE SIZE.



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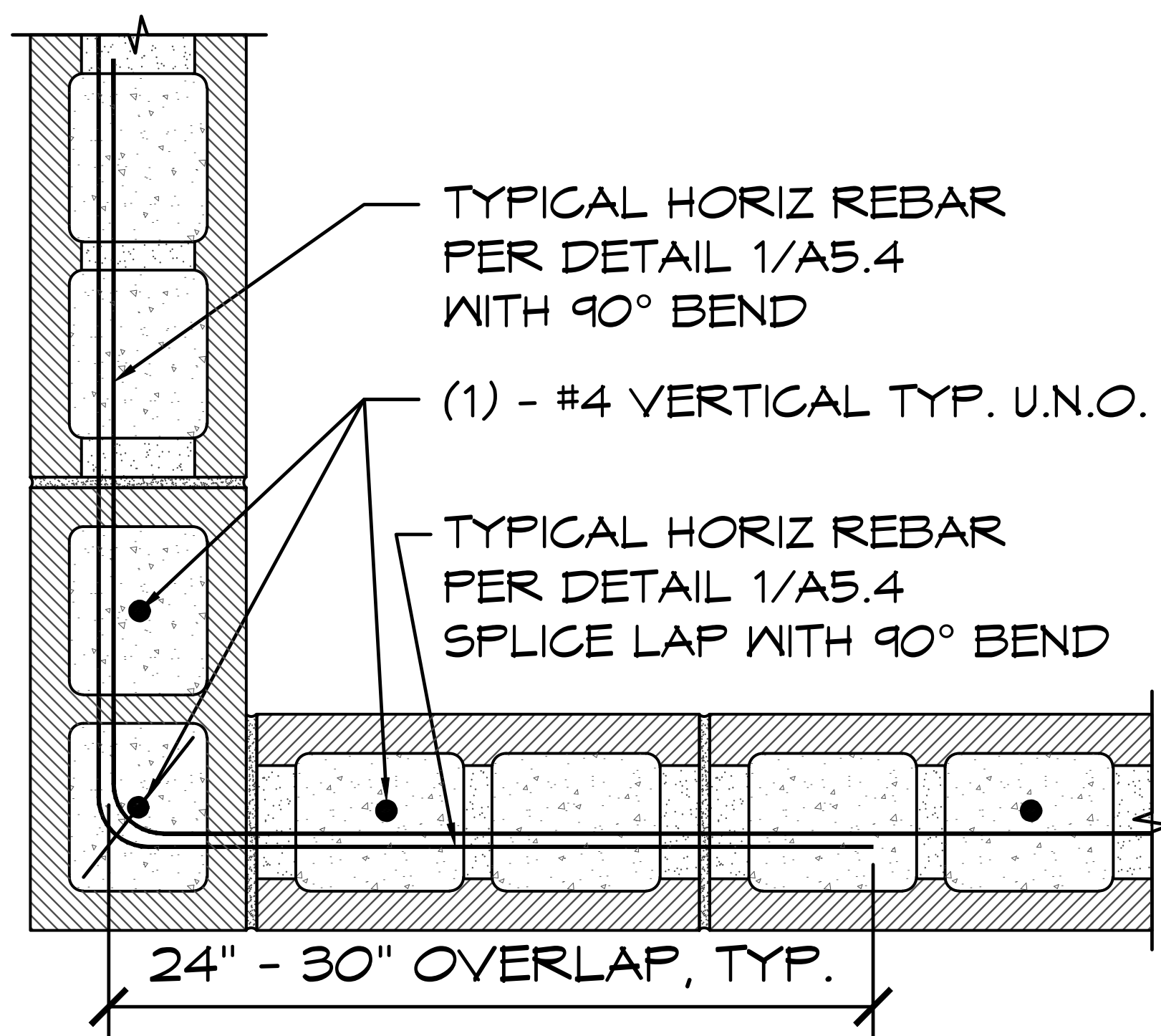
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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM
**WEST CAMPUS
 SACRAMENTO, CALIFORNIA**
 SHEET TITLE: CMU REBAR LAYOUT DETAIL

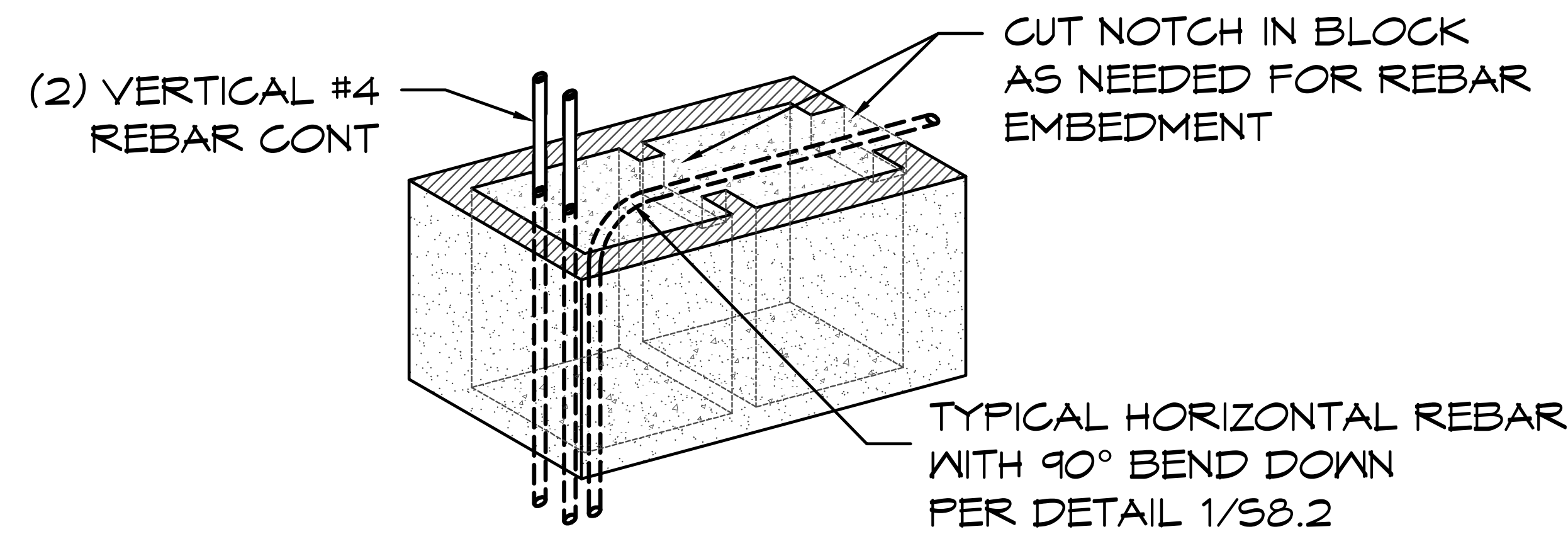
PLAN SET#	NES01	
DATE:	11/01/2023	
REVISIONS		
REV.	DATE:	BY
2	12-07-2023	CR
3	02-15-2024	CR
DRAWN BY: CR		

SHEET NO. **S8.2**



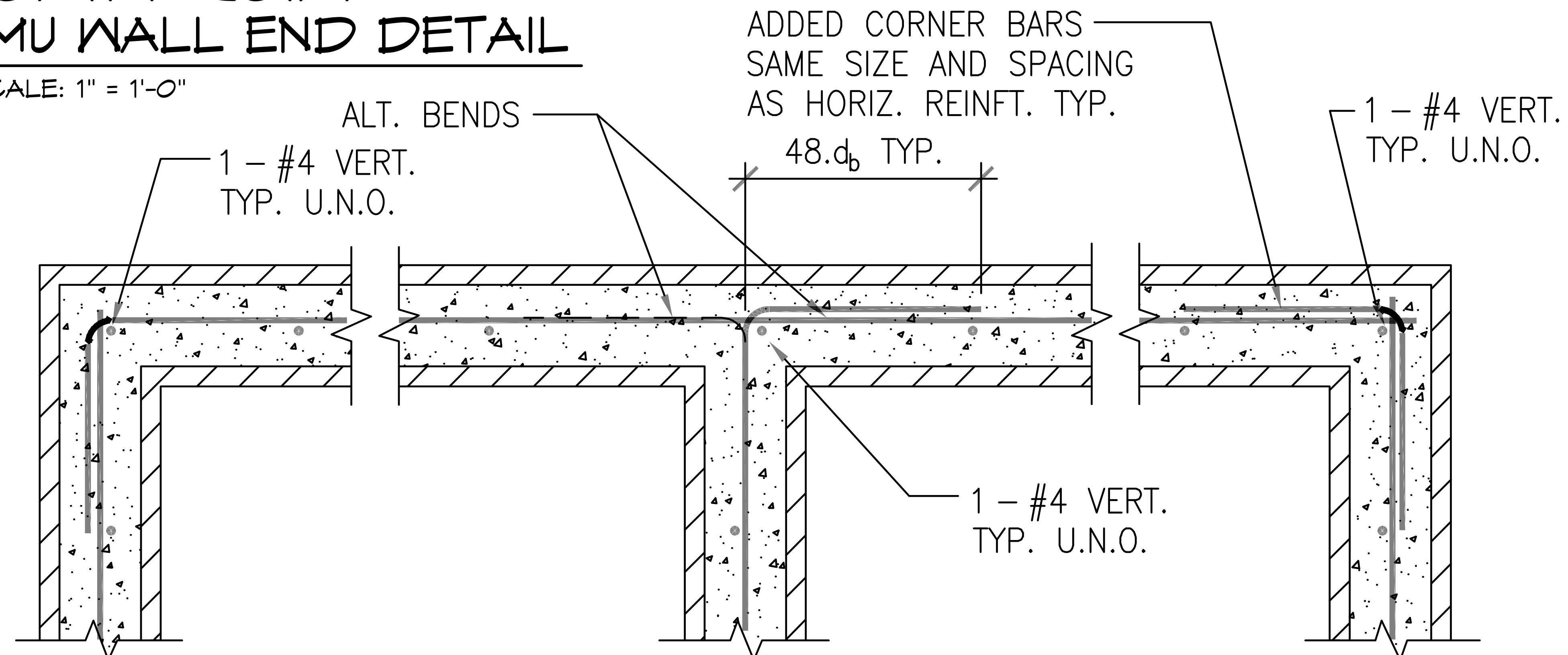
1 MORTAR JOINT CMU CORNER DETAIL

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



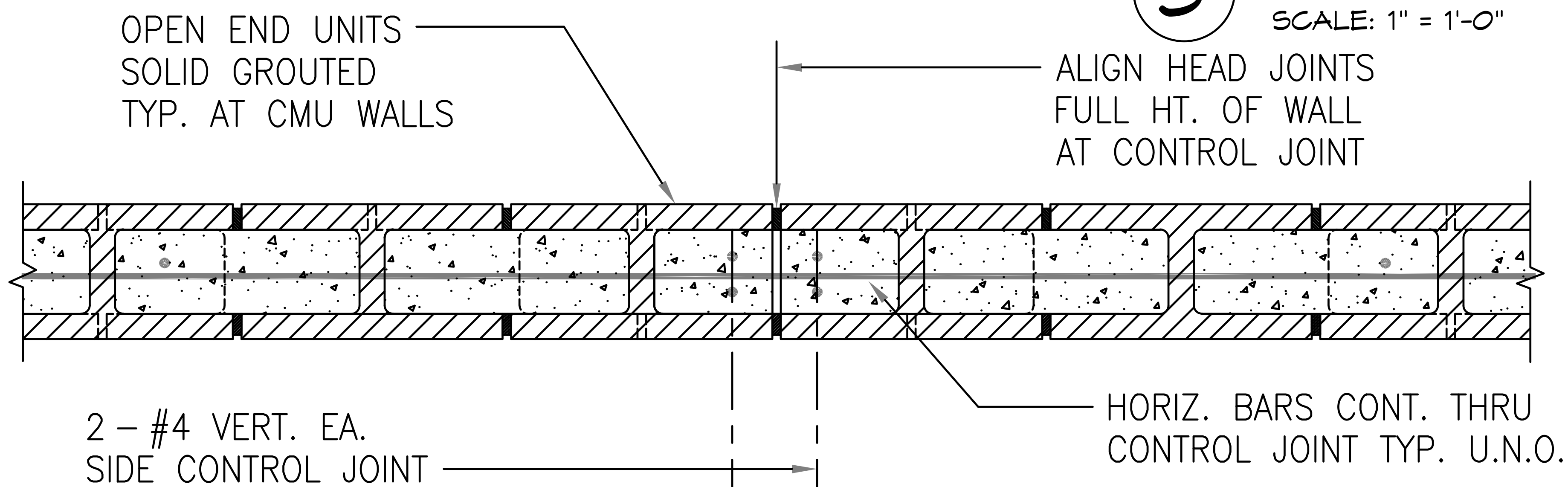
2 MORTAR JOINT CMU WALL END DETAIL

SCALE: 1" = 1'-0"



3 TYP. CMU WALL INTERSECTION AND CORNER DETAILS

SCALE: 1" = 1'-0"



PLAN

NOTES:

1. PROVIDE JOINTS AT INTERVALS NOT TO EXCEED 24 FEET EXCEPT AS NOTED.
2. HORIZONTAL REINFT SHALL BE CONTINUOUS THROUGH JOINT.

4 TYP. CMU WALL CONTROL JOINT

SCALE: 1" = 1'-0"

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ROMTEC

PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

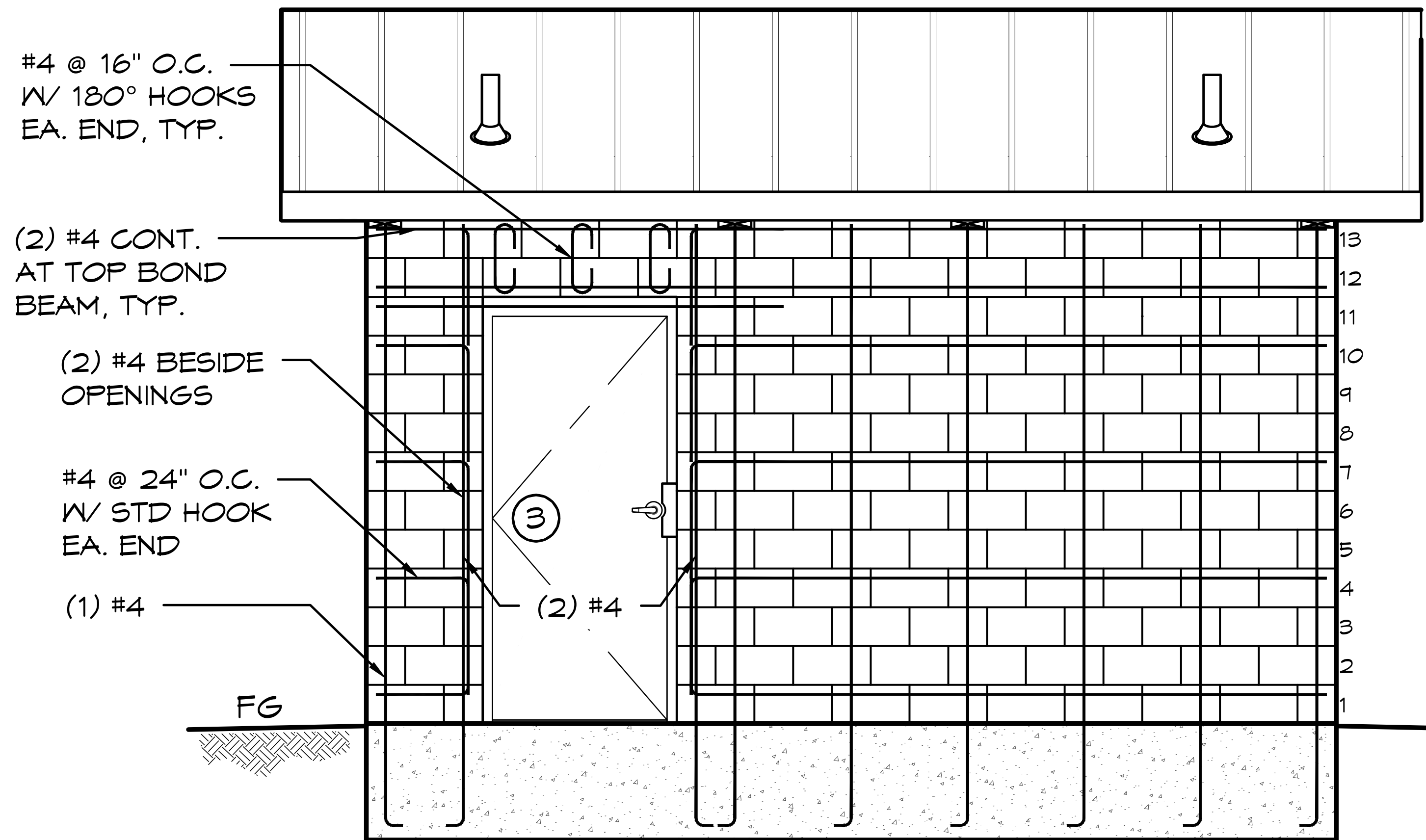
WEST CAMPUS
SACRAMENTO, CALIFORNIA

SHEET TITLE: STRUCTURAL DETAILS

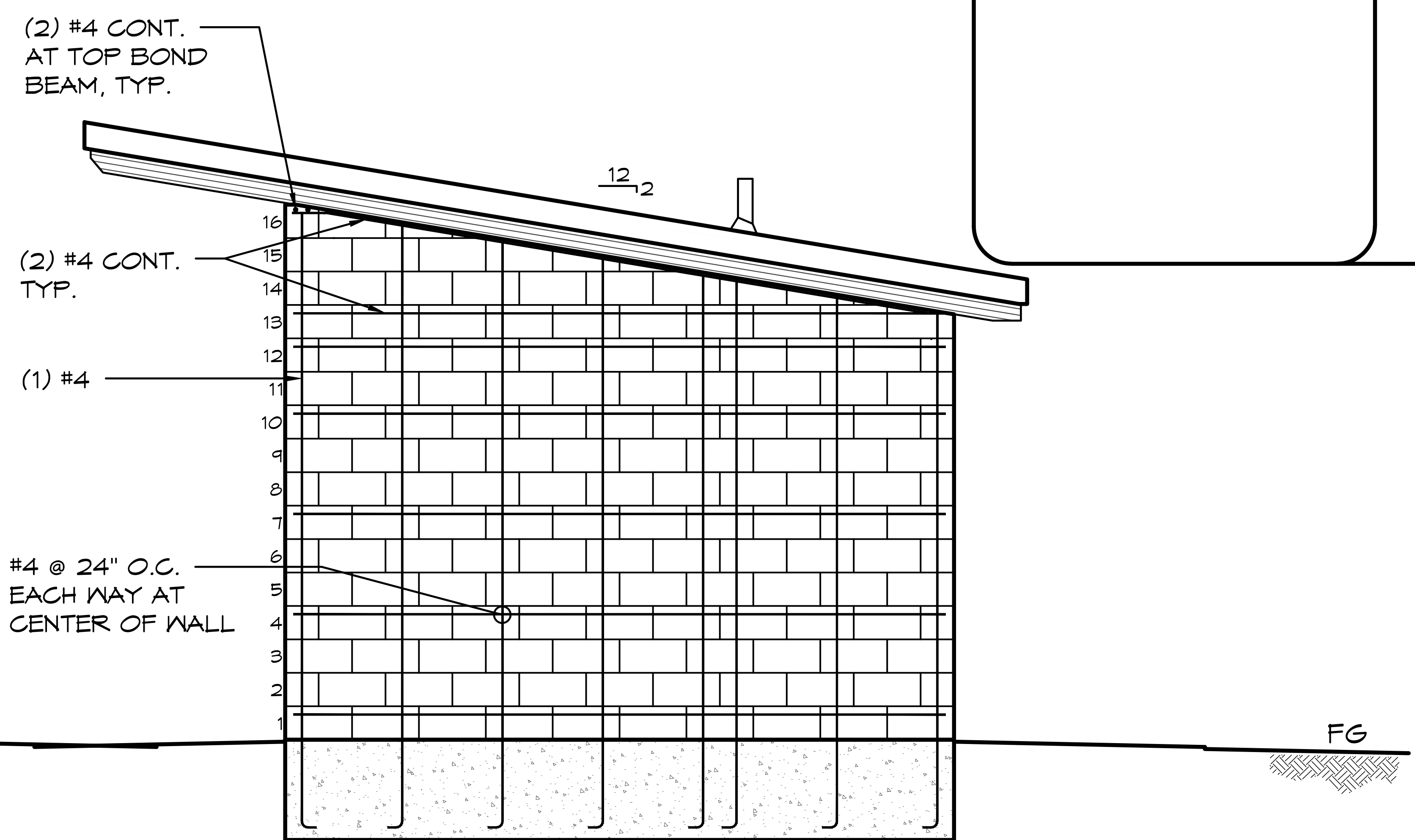
PLAN SET#	NESO1		
DATE:	11/01/2023		
REVISIONS			
REV.	DATE:	BY	
DRAWN BY: CR			



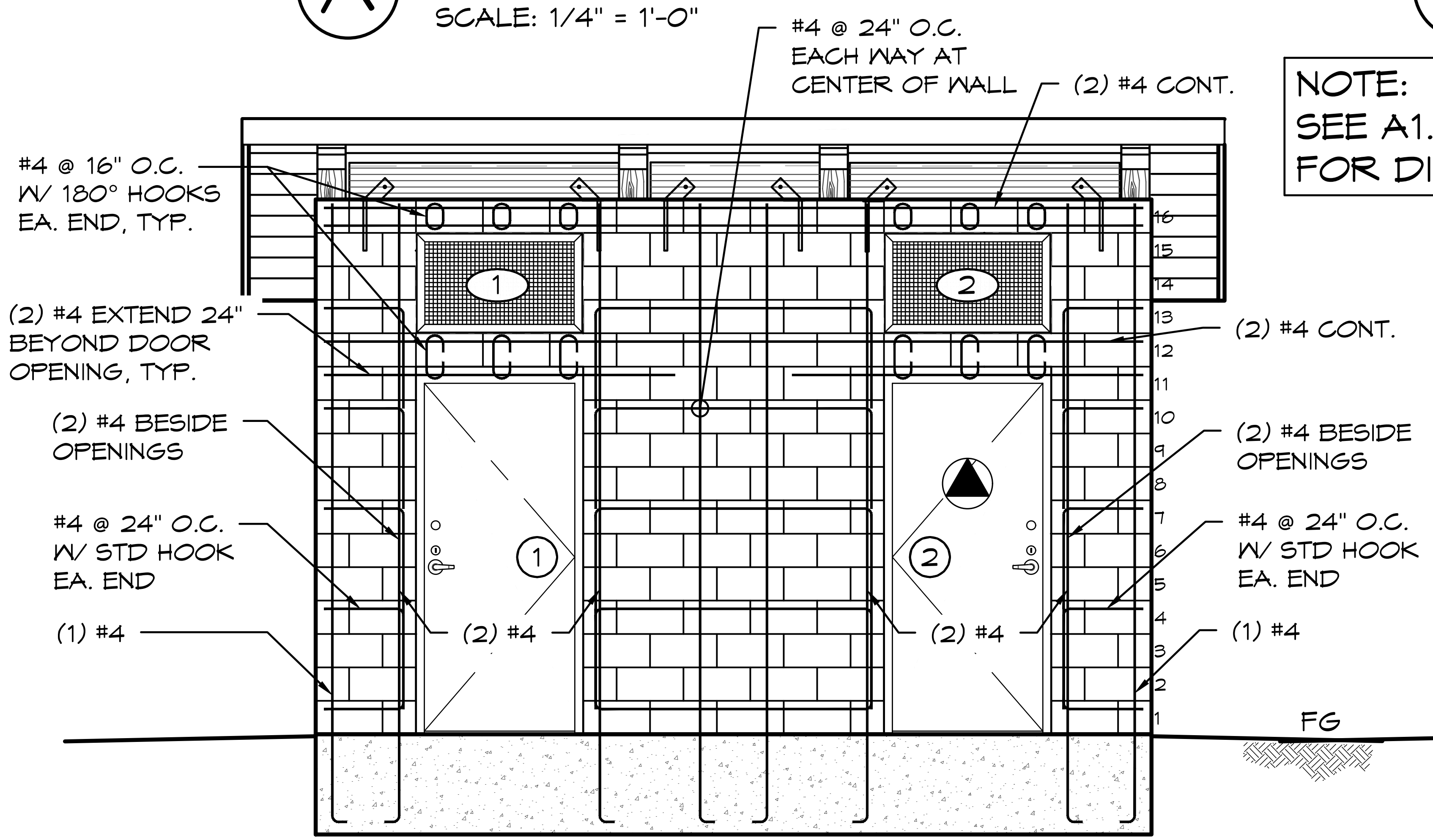
SHEET NO. **S8.3**



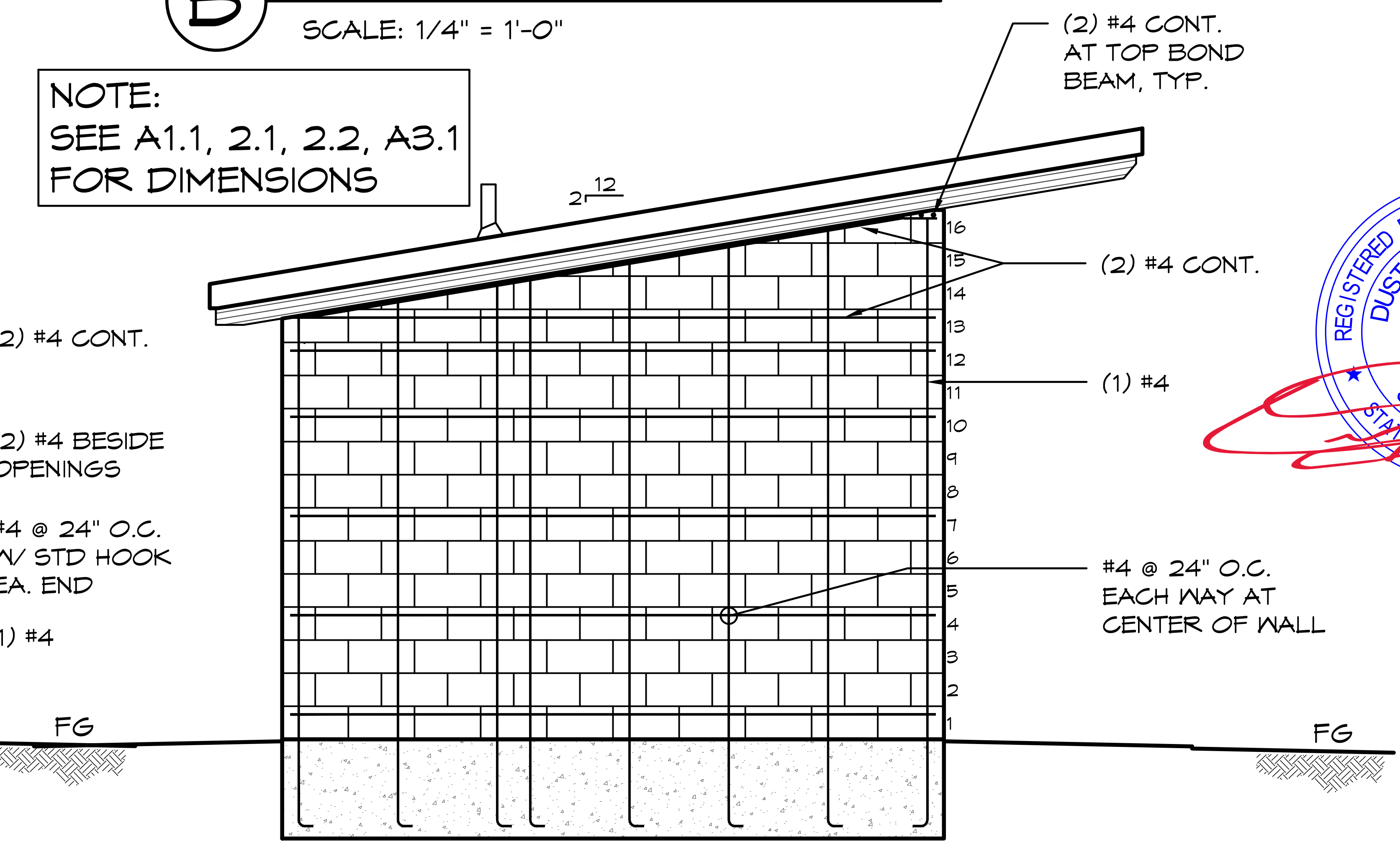
A CMU ELEVATION VIEW
SCALE: 1/4" = 1'-0"



B CMU ELEVATION VIEW
SCALE: 1/4" = 1'-0"

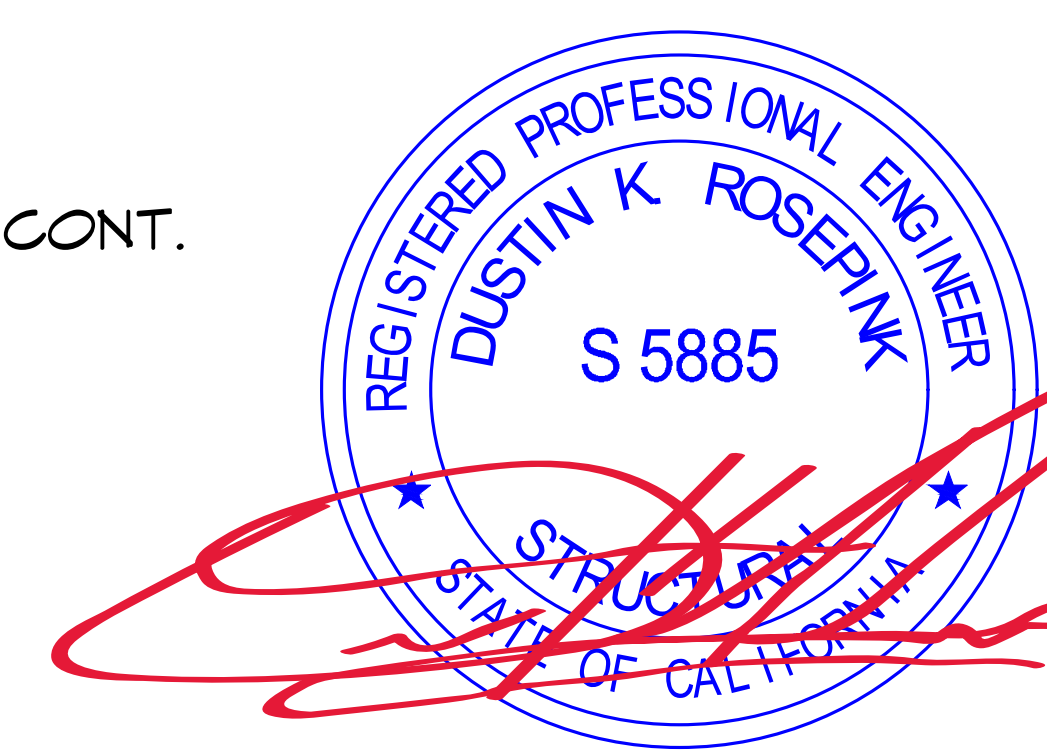


C CMU ELEVATION VIEW
SCALE: 1/4" = 1'-0"



D CMU ELEVATION VIEW
SCALE: 1/4" = 1'-0"

NOTE:
SEE A1.1, 2.1, 2.2, A3.1
FOR DIMENSIONS



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WEST CAMPUS
SACRAMENTO, CALIFORNIA

PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

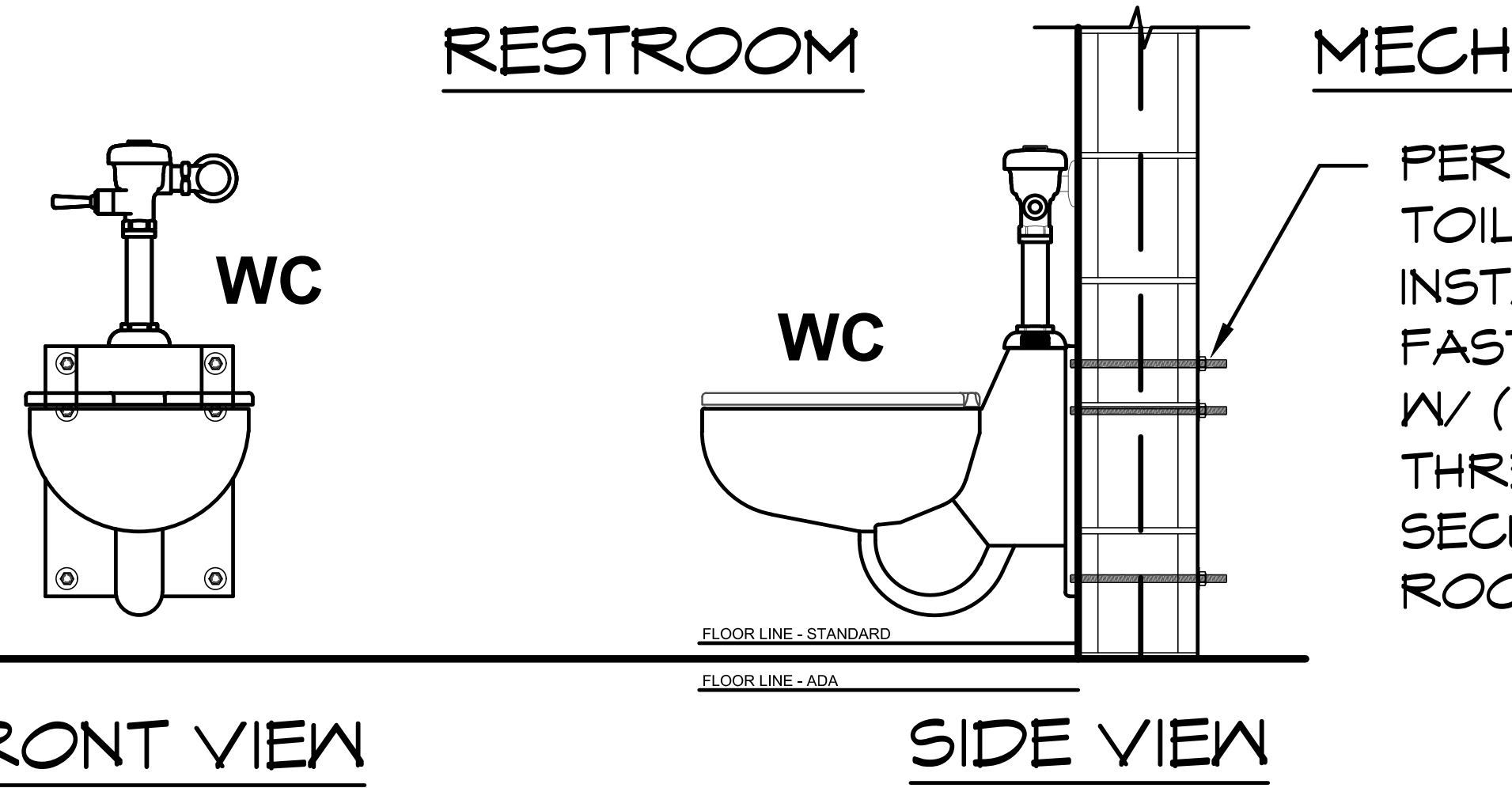
PLAN SET#
NES01

DATE:
11/01/2023

REV.	DATE:	BY:
2	12-07-2023	CR
3	02-15-2024	CR

DRAWN BY:
CR

SHEET TITLE: STRUCTURAL ELEVATIONS



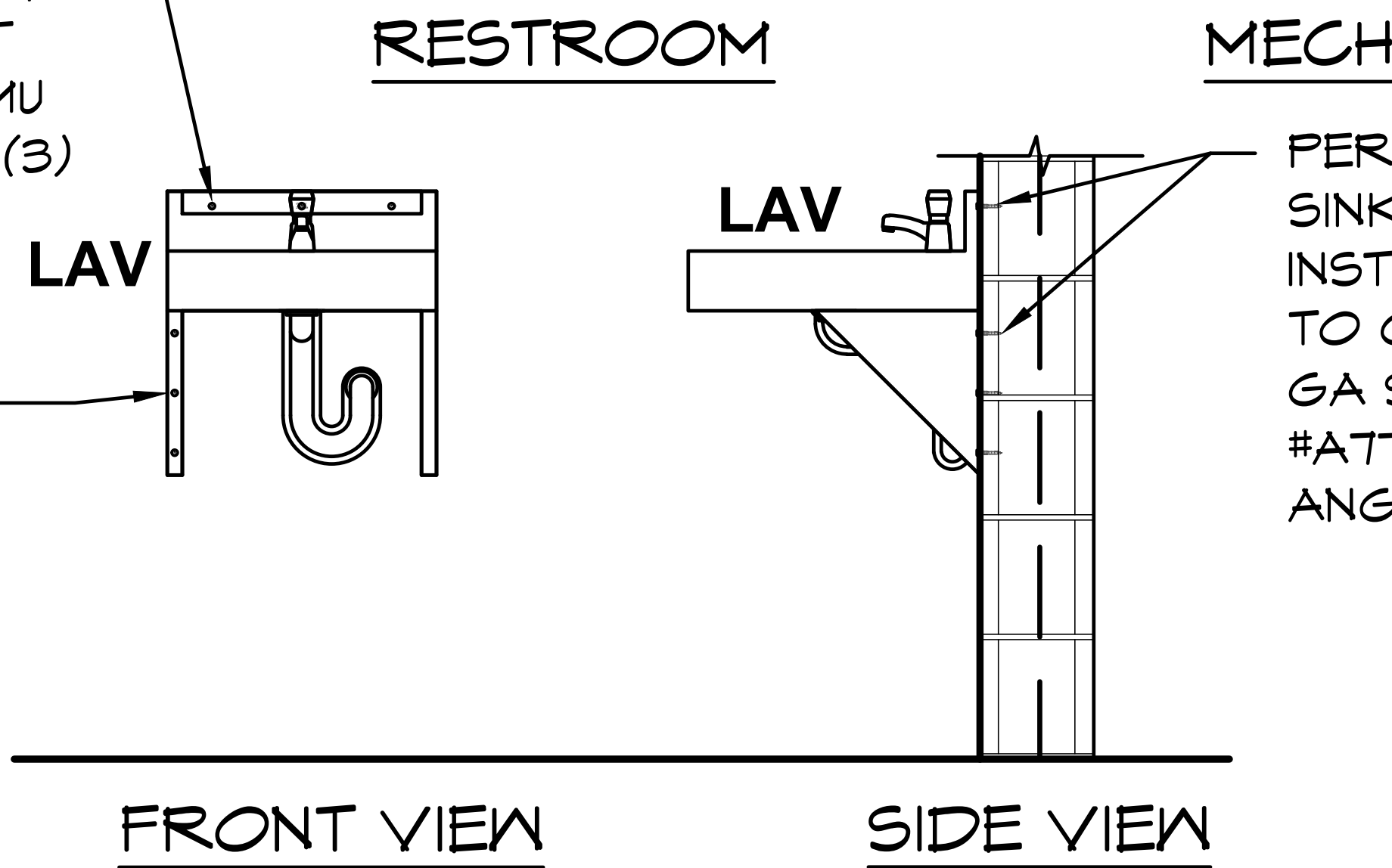
PER STAINLESS STEEL TOILET (40lbs.) INSTALL INSTRUCTIONS FASTEN TO CMU WALL W/ (6) 1/2"Ø ALL THREAD RODS SECURED IN MECH ROOM, TYP.

INSTALL NOTES:
 1. FASTEN 6" MIN. LENGTH OF UNISTRUT TO CMU WALL W/ (2) 1/2" Ø X 3 5/8" EMBEDMENT HILTI KB-TZ2 STAINLESS STEEL ANCHORS, INSTALL PER ICC ESR-4561 OR 12" O.C, TYP.
 2. USE STRUT NUTS FOR BOLTS TO MATCH PROVIDED EQUIPMENT WITH MOUNTING HOLES.
 3. FOR WATER LINES, SEWER PIPE OR CONDUIT USE STRUT MOUNT ROUTING CLAMP TO MATCH DIAMETER.



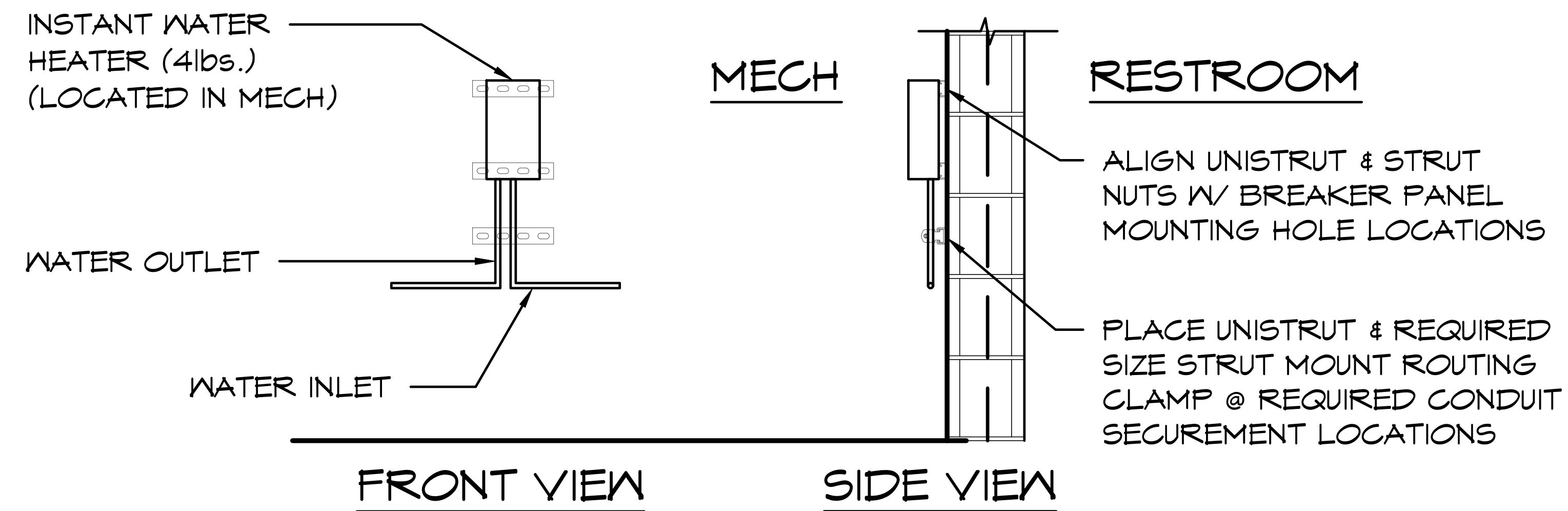
1 WATER CLOSET MOUNTING
 SCALE: 1/2" = 1'-0"

(1) 14 GA S/S Z-CLIP FASTEN TO CMU W/ 5/16"Ø X 1 1/4" MIN. EMBEDMENT INTO FULLY GROUTED CMU ULTRACON SCREW, TYP. (3)



PER STAINLESS STEEL SINK (30lbs.) INSTALL INSTRUCTIONS FASTEN TO CMU WALL W/ (1) 14 GA S/S Z-CLIP & (2) #A775 14 GA S/S ANGLE BRACES, TYP.

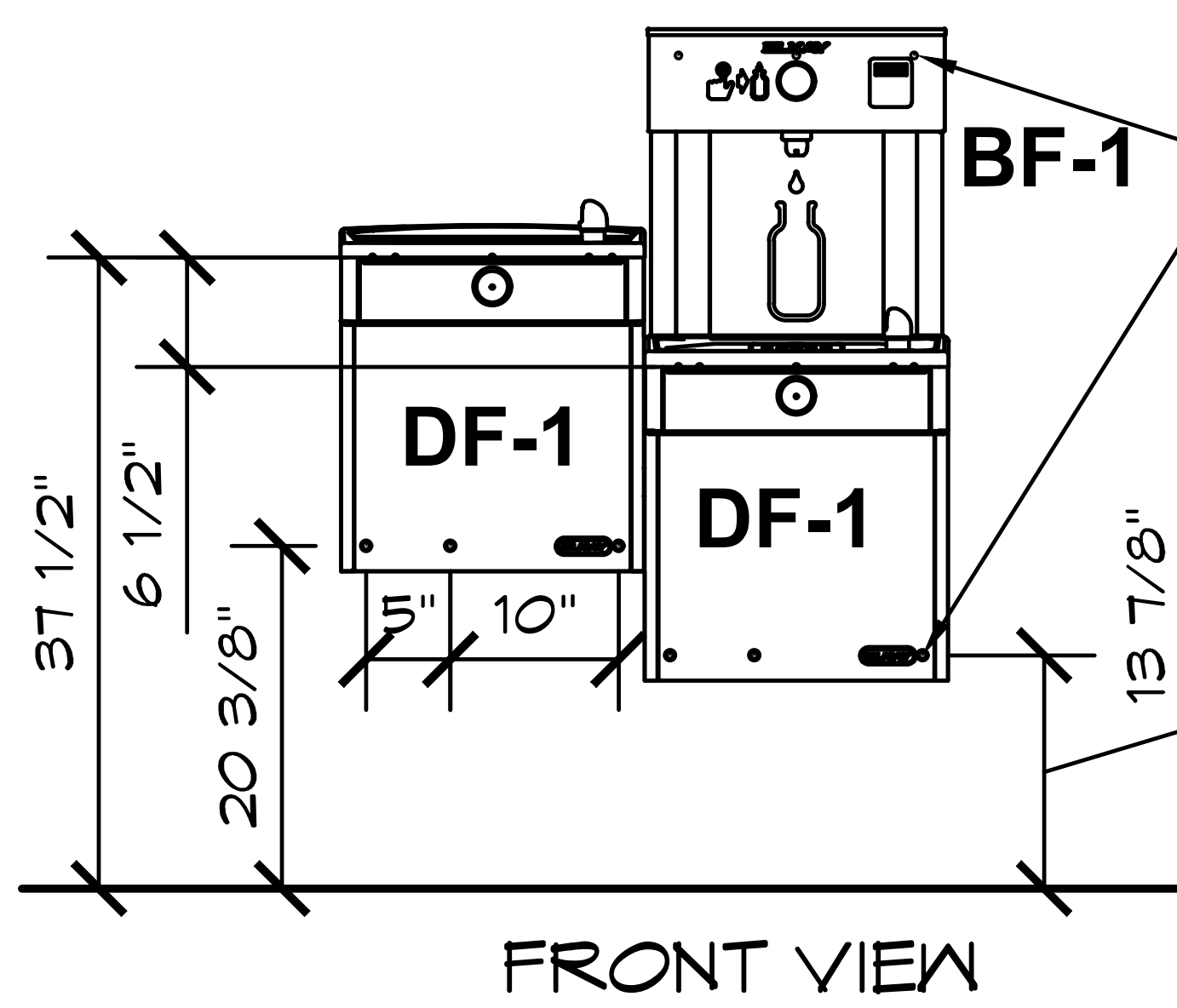
(2) #A775 14 GA S/S ANGLE BRACES FASTEN TO CMU W/ 5/16"Ø X 1 1/4" MIN. EMBEDMENT INTO FULLY GROUTED CMU ULTRACON SCREW, TYP. (3)



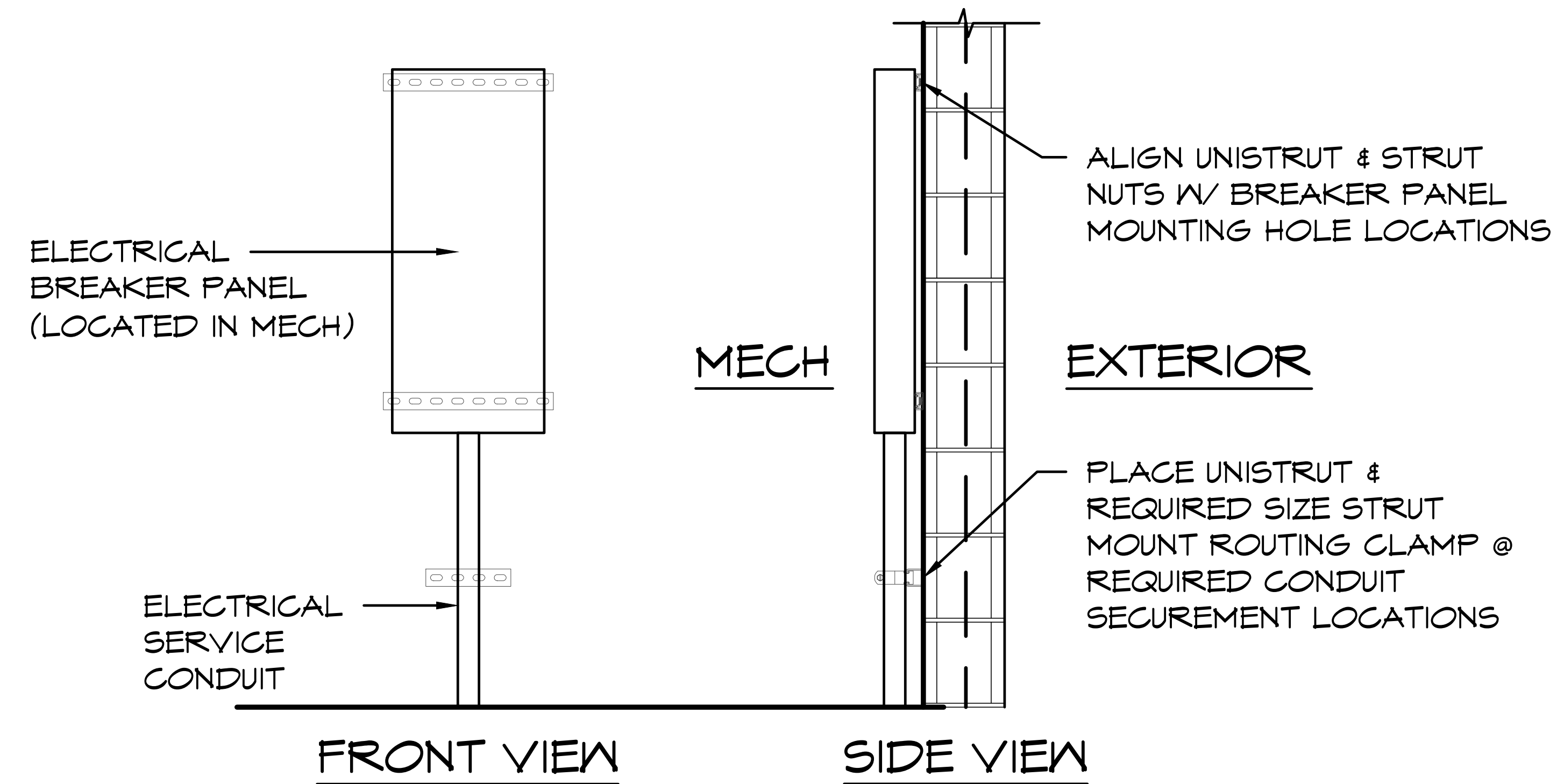
ALIGN UNISTRUT & STRUT NUTS W/ BREAKER PANEL MOUNTING HOLE LOCATIONS
 PLACE UNISTRUT & REQUIRED SIZE STRUT MOUNT ROUTING CLAMP @ REQUIRED CONDUIT SECUREMENT LOCATIONS

4 TANKLESS WATER HEATER MOUNTING
 SCALE: 1/2" = 1'-0"

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



PER STAINLESS STEEL DRINKING FOUNTAIN W/ BOTTLE FILLER (86lbs.) INSTALL INSTRUCTIONS FASTEN TO CMU WALL W/ (13) 1/4"Ø X 2 3/4" HEX HEAD TAPCON CONCRETE SCREW ANCHOR & (6) 1/4"Ø X 2 1/4" MAXI-SET W/ 5/8"Ø HEX FLANGE TAPCON CONCRETE SCREW ANCHOR, TYP. INSTALL PER ICC-ES ESR-1671



ALIGN UNISTRUT & STRUT NUTS W/ BREAKER PANEL MOUNTING HOLE LOCATIONS
 PLACE UNISTRUT & REQUIRED SIZE STRUT MOUNT ROUTING CLAMP @ REQUIRED CONDUIT SECUREMENT LOCATIONS

5 BREAKER PANEL MOUNTING
 SCALE: 1/2" = 1'-0"

3 DRINKING FOUNTAIN MOUNTING
 SCALE: 1/2" = 1'-0"

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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM
 WEST CAMPUS
 SACRAMENTO, CALIFORNIA
 SHEET TITLE: EQUIPMENT MOUNTING DETAILS

PLAN SET#	NES01		
DATE:	11/01/2023		
REVISIONS			
REV.	DATE:	BY	
5	03-14-2024	CR	
6	03-19-2024	CR	
DRAWN BY: CR			

SHEET NO. **S8.5**

6 3/4" X 9" GLULAM RAFTER
 SECURE TO CMU W/ 5/8" Ø
 TITEN HD COUNTERSINK AT
 48" O.C., 4.5" EMBEDMENT
 INTO SOLID GROUTED CMU,
 INSTALL PER ICC-ES
 ESR-1056, ALIGN CENTER
 OF BEAM WITH CENTER OF
 WALL, TYP.

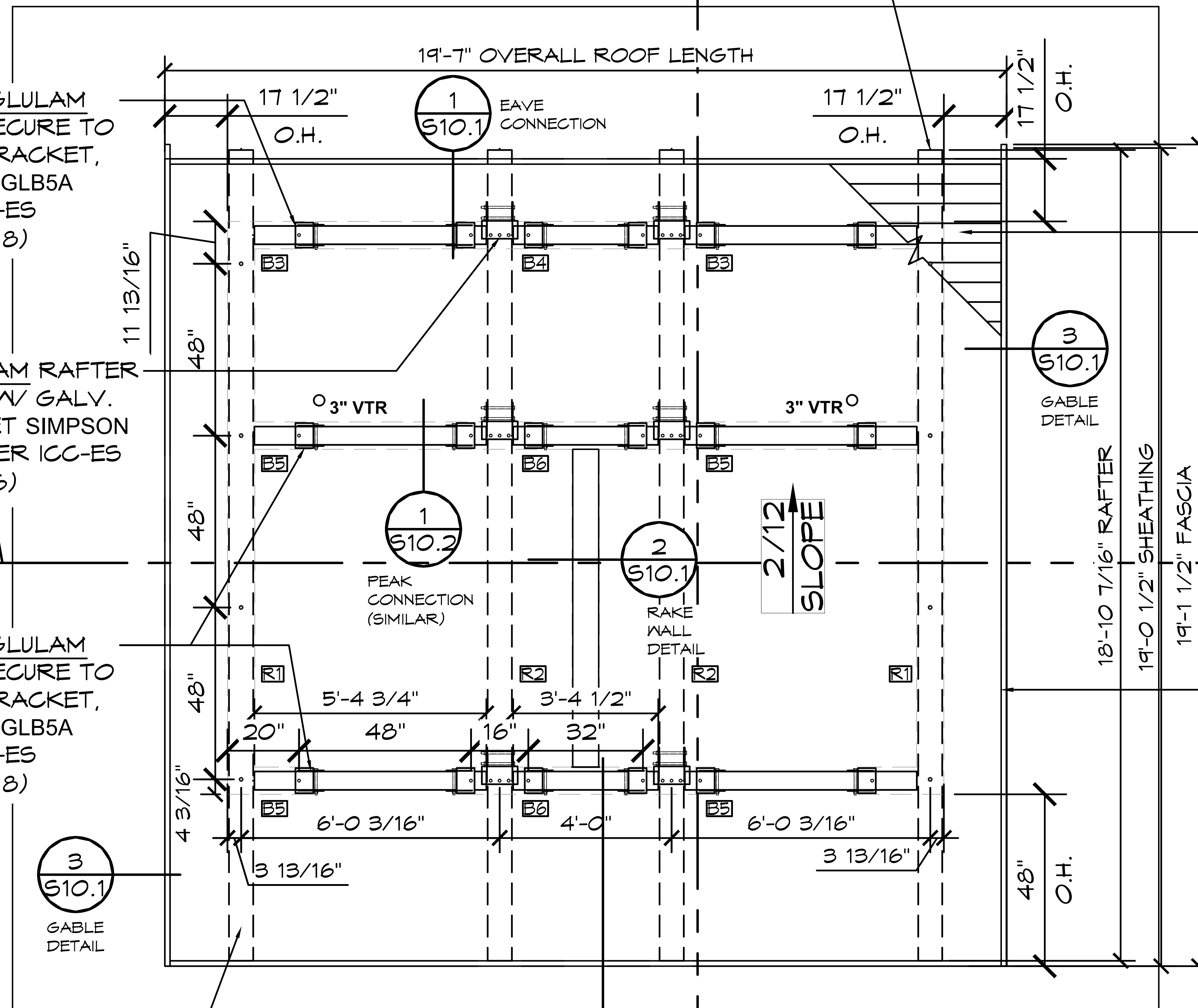
NOTE: DURING THE CONSTRUCTION
 PROCESS IT IS COMMON FOR SMALL
 GAPS TO APPEAR IN ANY NUMBER OF
 PLACES. ROMTEC DOES NOT PROVIDE
 CAULK OR ANY OTHER MATERIAL TO
 FILL THESE SMALL GAPS UNLESS IT IS
 SPECIFIED IN OUR SUBMITTAL

5 1/8" X 10 1/2" GLULAM
 FILLER BEAMS SECURE TO
 CMU W/ GALV. BRACKET,
 WETSET SIMPSON GLB5A
 INSTALL PER ICC-ES
 ESR-2877, TYP. (18)

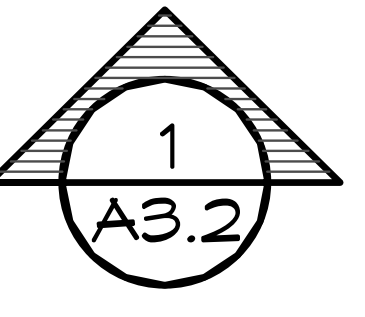
6 3/4" X 9" GLULAM RAFTER
 SECURE TO CMU W/ GALV.
 BRACKET, WETSET SIMPSON
 HGLBA INSTALL PER ICC-ES
 ESR-2877, TYP. (6)

5 1/8" X 10 1/2" GLULAM
 FILLER BEAMS SECURE TO
 CMU W/ GALV. BRACKET,
 WETSET SIMPSON GLB5A
 INSTALL PER ICC-ES
 ESR-2877, TYP. (18)

6 3/4" X 9" GLULAM RAFTER
 SECURE TO CMU W/ 5/8" Ø
 TITEN HD COUNTERSINK AT
 48" O.C., 4.5" EMBEDMENT
 INTO SOLID GROUTED CMU,
 INSTALL PER ICC-ES
 ESR-1056, ALIGN CENTER
 OF BEAM WITH CENTER OF
 WALL, TYP.



2x6 V-EDGE TONGUE & GROOVE DECKING: NAIL
 DECK BOARD TO GLULAM BEAMS W/ 16d x 3
 1/2" NAILS (2) PER 2x6 DECK BOARD.
 5/8" OSB SHEATHING:
 ATTACH OSB TO DECKING w/ 16ga 1 1/2"
 STAPLES @ 4"oc EDGE & 12"oc FIELD (ESR-1539)

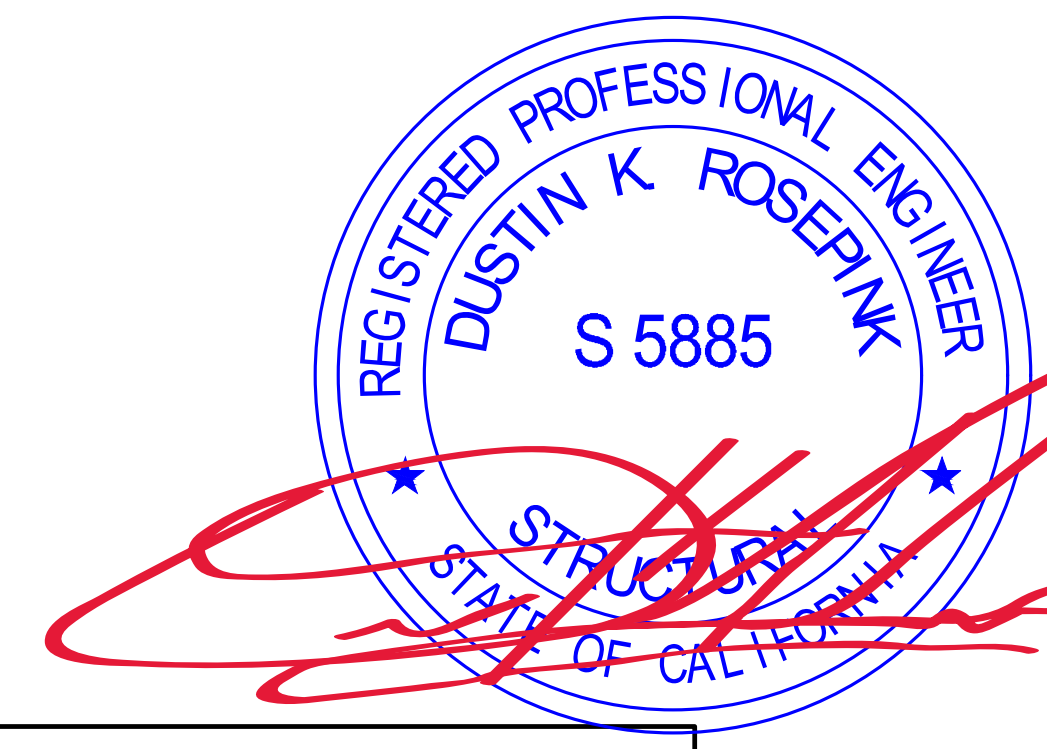
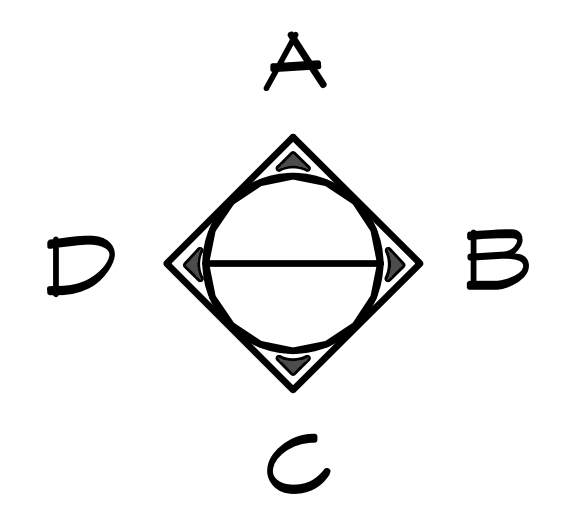


2 X 6 CEDAR FASCIA

NOTE:
 1. EXPOSED UNPROTECTED GLB'S WITH
 EXPOSED END CUTS TO BE
 FABRICATED FROM DECAY RESISTANT
 ALASKAN CEDAR
 2. 2X6 FASCIA TO BE ALASKAN CEDAR

NOTE:
 1. TWO-INCH (51 MM) DECKING SHALL HAVE A MAXIMUM MOISTURE
 CONTENT OF 15 PERCENT. DECKING SHALL BE MACHINED WITH A
 SINGLE TONGUE-AND-GROOVE PATTERN. EACH DECKING PIECE
 SHALL BE NAILED TO EACH SUPPORT.
 2. EACH PIECE OF DECKING SHALL BE TOENAILED AT EACH SUPPORT
 WITH ONE 16d COMMON NAIL THROUGH THE TONGUE AND
 FACE-NAILED WITH ONE 16d COMMON NAIL OR AS NOTED
 OTHERWISE.
 3. CONTROLLED RANDOM PATTERN THERE SHALL BE A MINIMUM
 DISTANCE OF 24 INCHES (610 MM) BETWEEN END JOINTS IN
 ADJACENT COURSES. THE PIECES IN THE FIRST AND SECOND
 COURSES SHALL BEAR ON AT LEAST TWO SUPPORTS WITH END
 JOINTS IN THESE TWO COURSES OCCURRING ON ALTERNATE
 SUPPORTS. A MAXIMUM OF SEVEN INTERVENING COURSES SHALL
 BE PERMITTED BEFORE THIS PATTERN IS REPEATED.

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



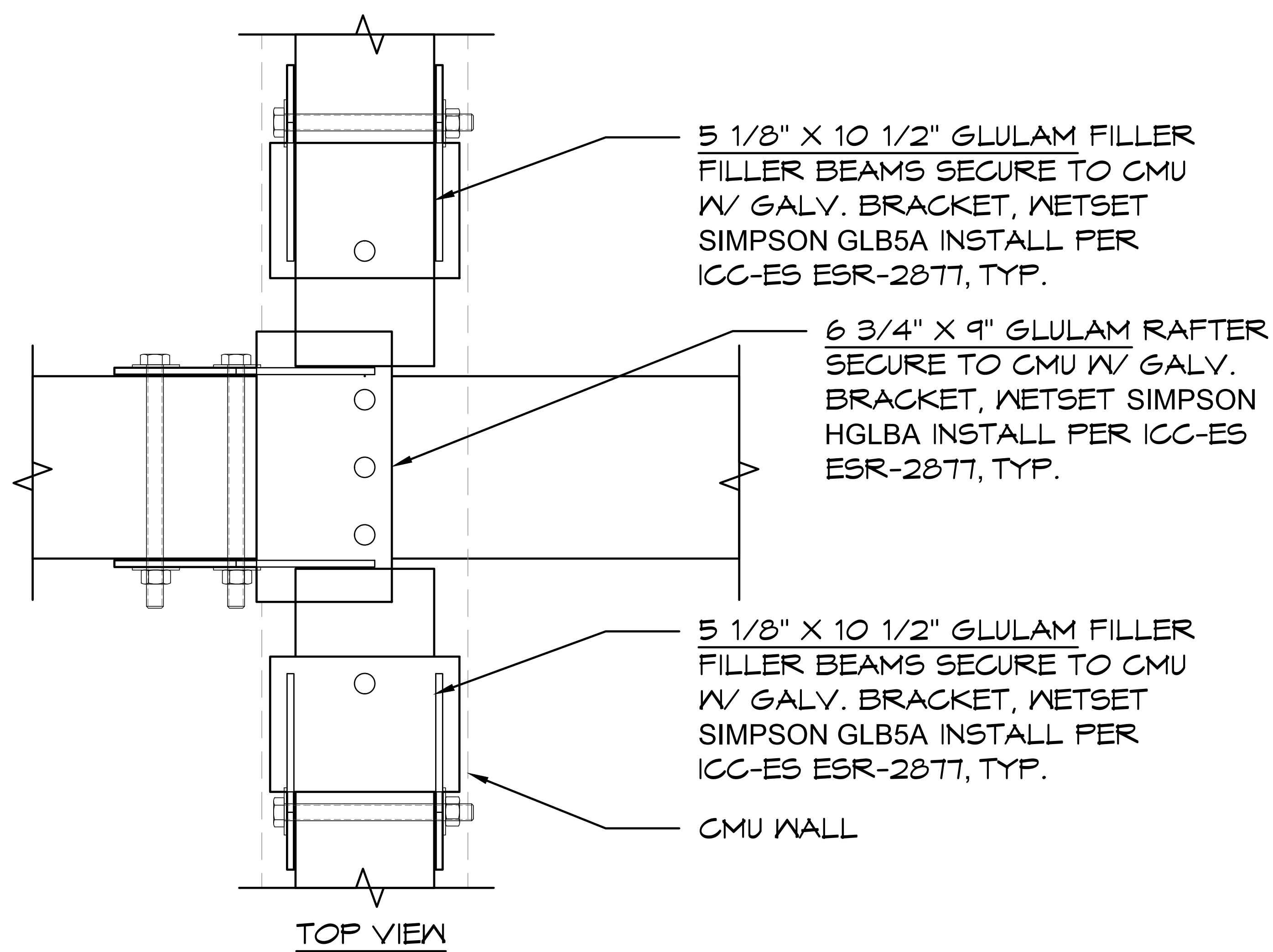
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WEST CAMPUS
 SACRAMENTO, CALIFORNIA
 SHEET TITLE: ROOF FRAMING PLAN
 PROJECT: 2022 SIERRA II COMPACT 16'-3" W/ MECH RM

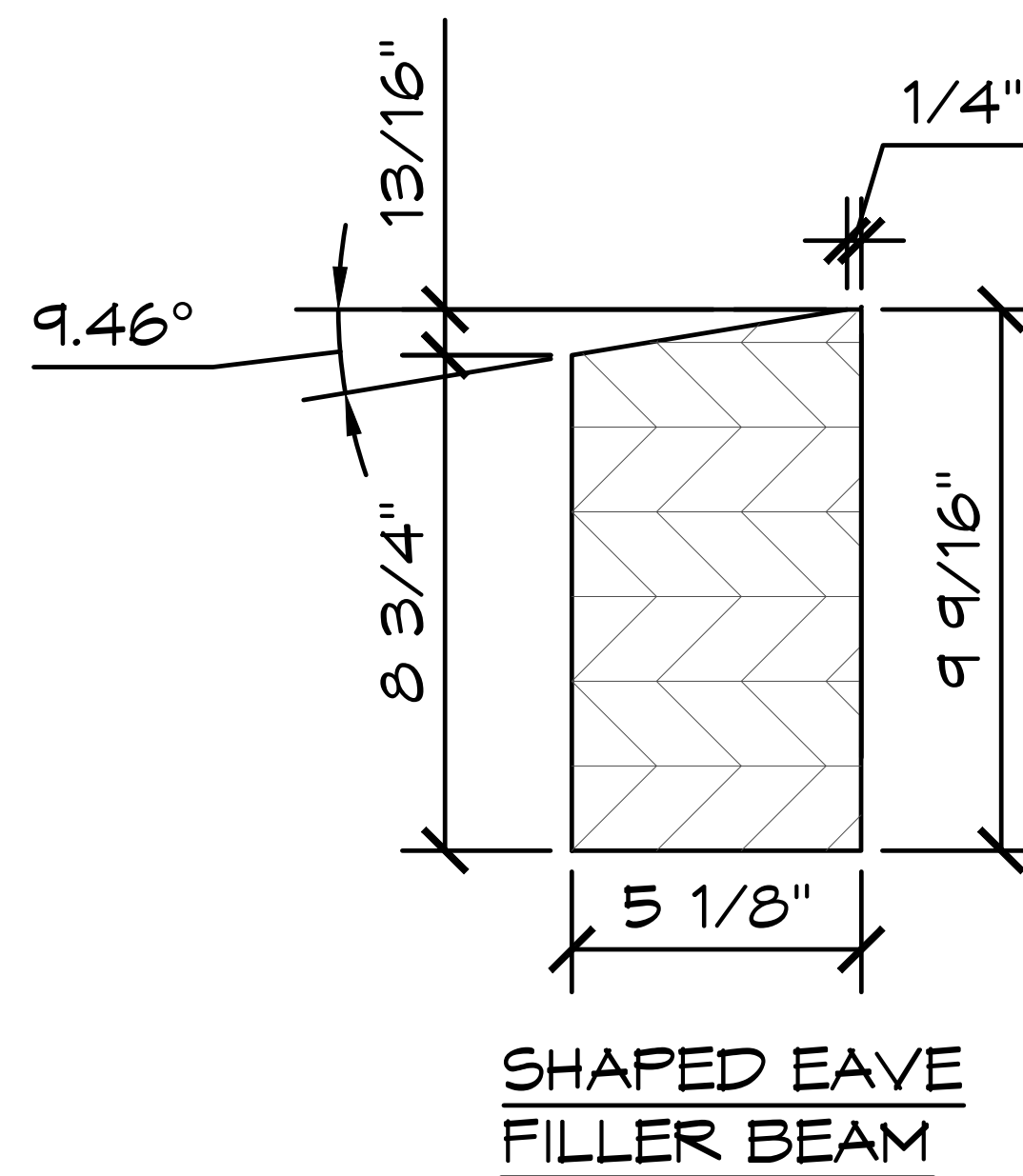
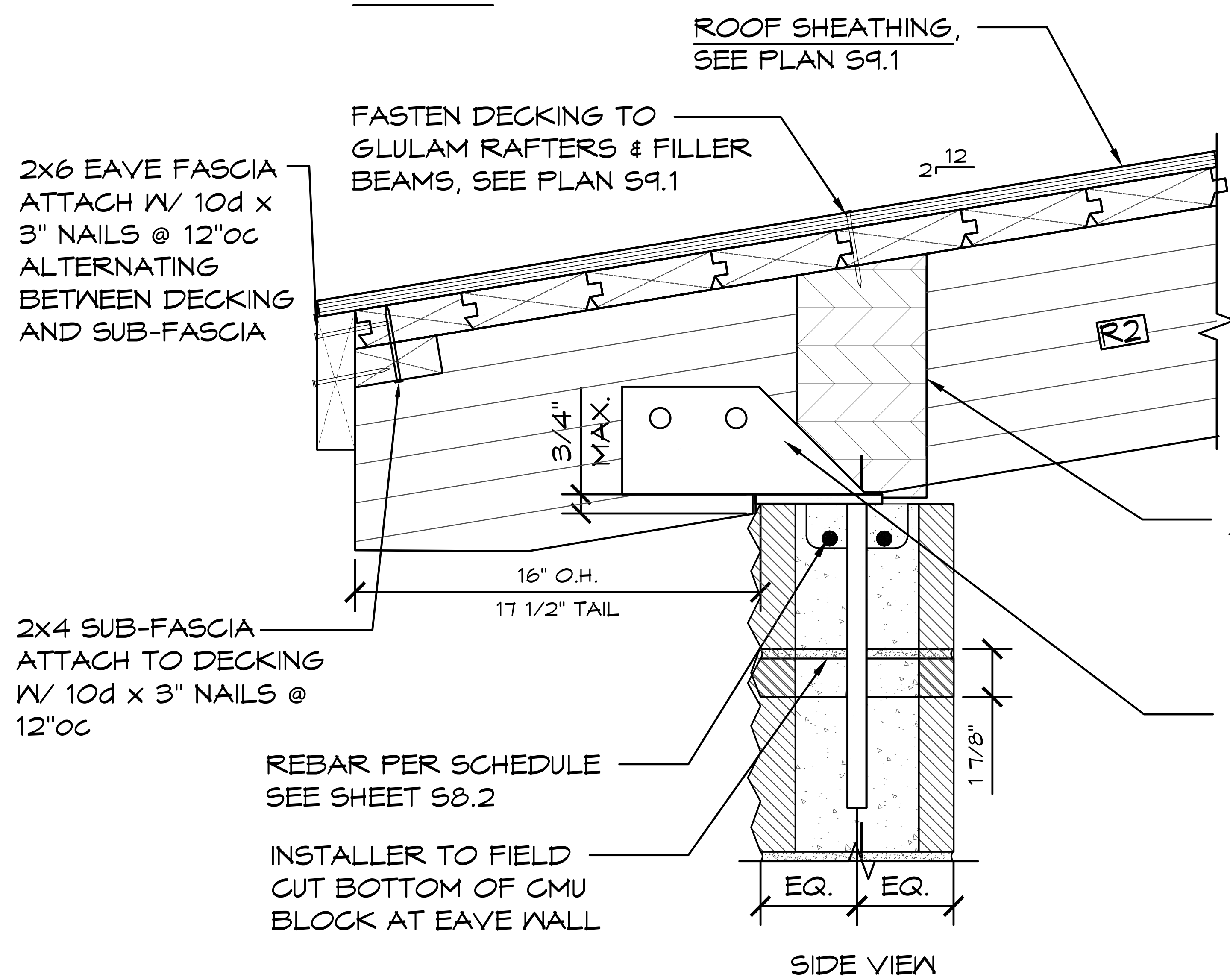
PLAN SET#		
NES01		
DATE:		
11/01/2023		
REVISIONS		
REV.	DATE:	BY
3	02-15-2024	CR
4	02-27-2024	CR
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CR		

SHEET NO. S9.1

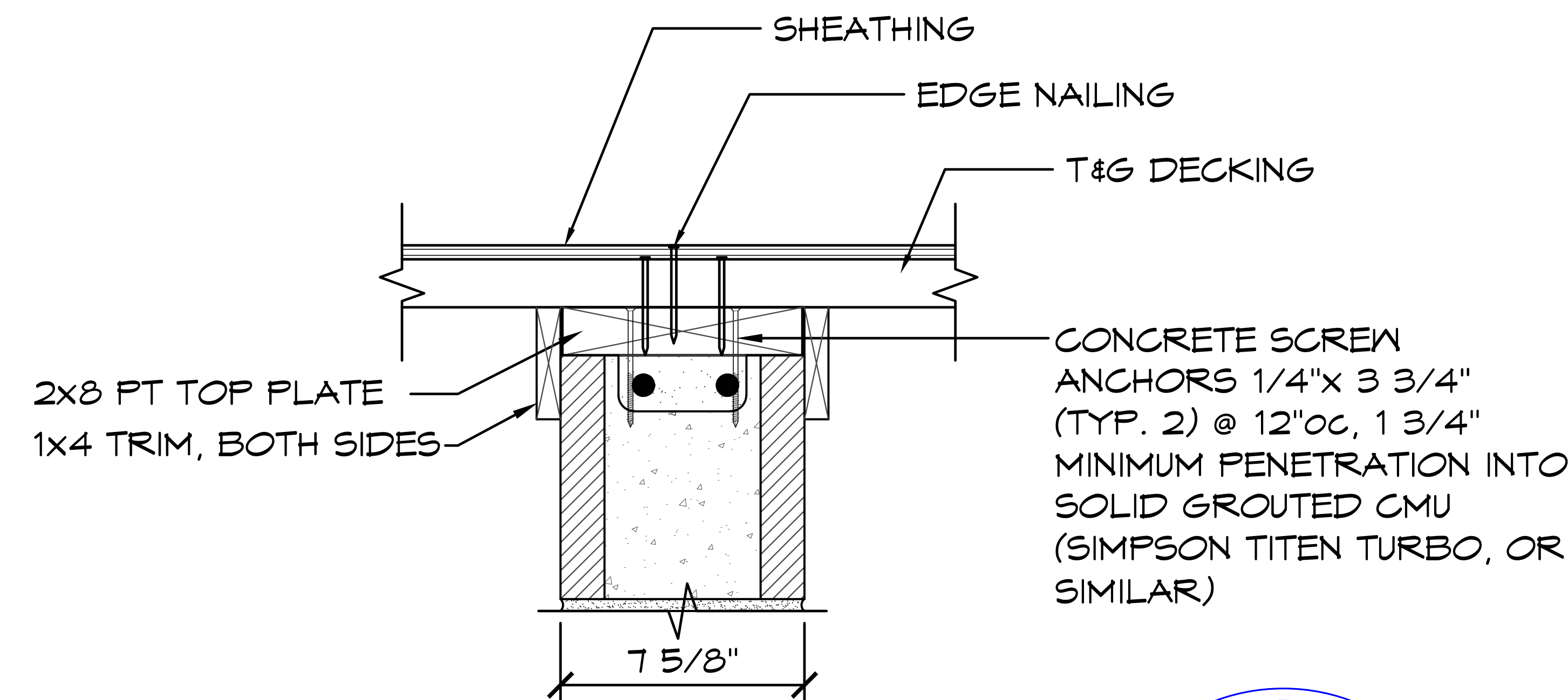


NOTE:

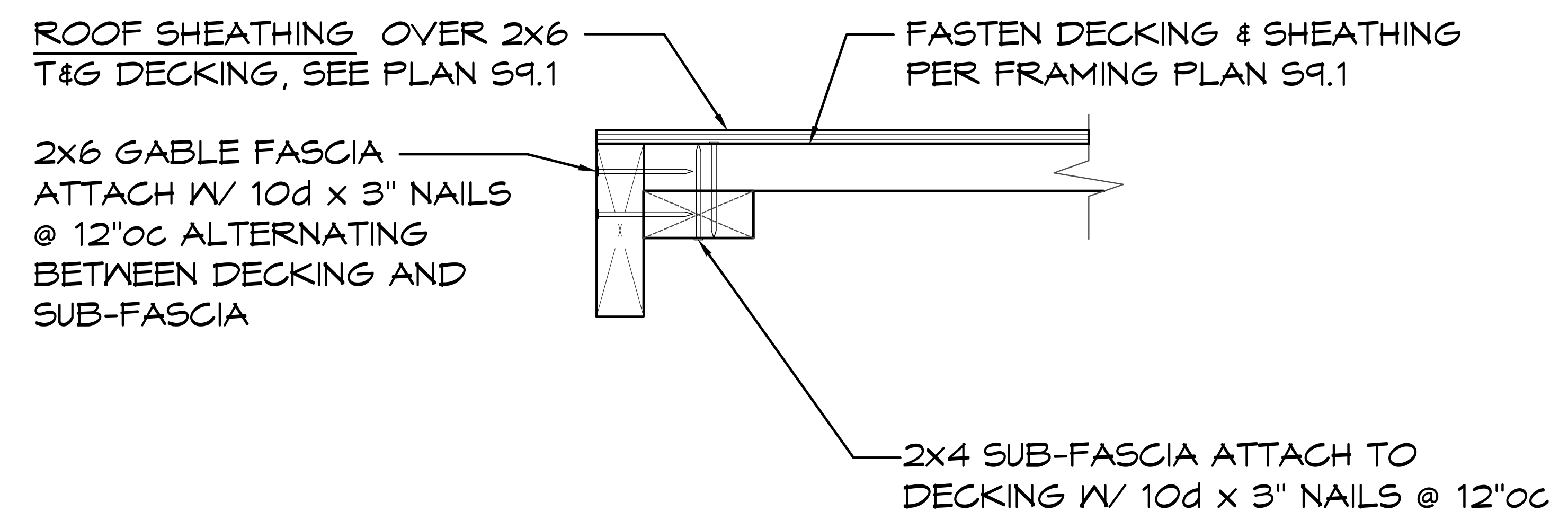
1. EXPOSED UNPROTECTED GLB'S WITH EXPOSED END CUTS TO BE FABRICATED FROM DECAY RESISTANT ALASKAN CEDAR
2. 2X6 FASCIA TO BE ALASKAN CEDAR



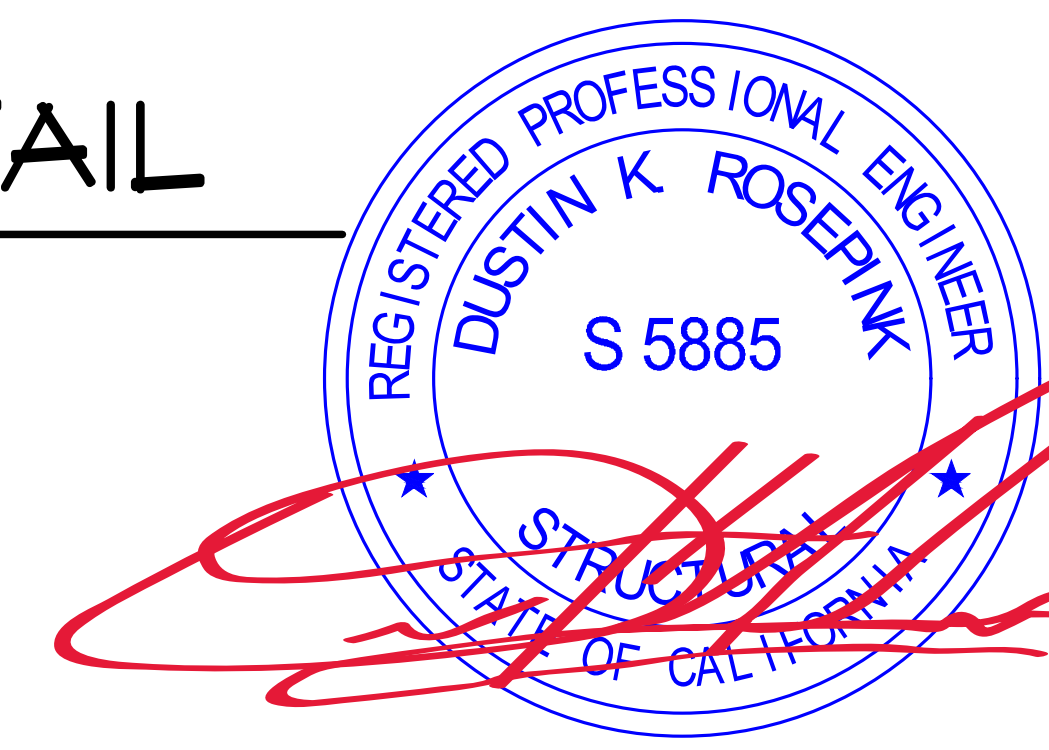
1 EAVE CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



2 RAKE WALL DETAIL
SCALE: 1 1/2" = 1'-0"



3 GABLE DETAIL, TYP
SCALE: 1 1/2" = 1'-0"



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ROMTEC

REGISTERED PROFESSIONAL ENGINEER
DUSTIN K. ROSEPK
S 5885
STRUCTURAL
STATE OF CALIFORNIA

PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

WEST CAMPUS
SACRAMENTO, CALIFORNIA

SHEET TITLE: CONNECTION DETAILS

PLAN SET# NES01

DATE: 11/01/2023

REVISIONS

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