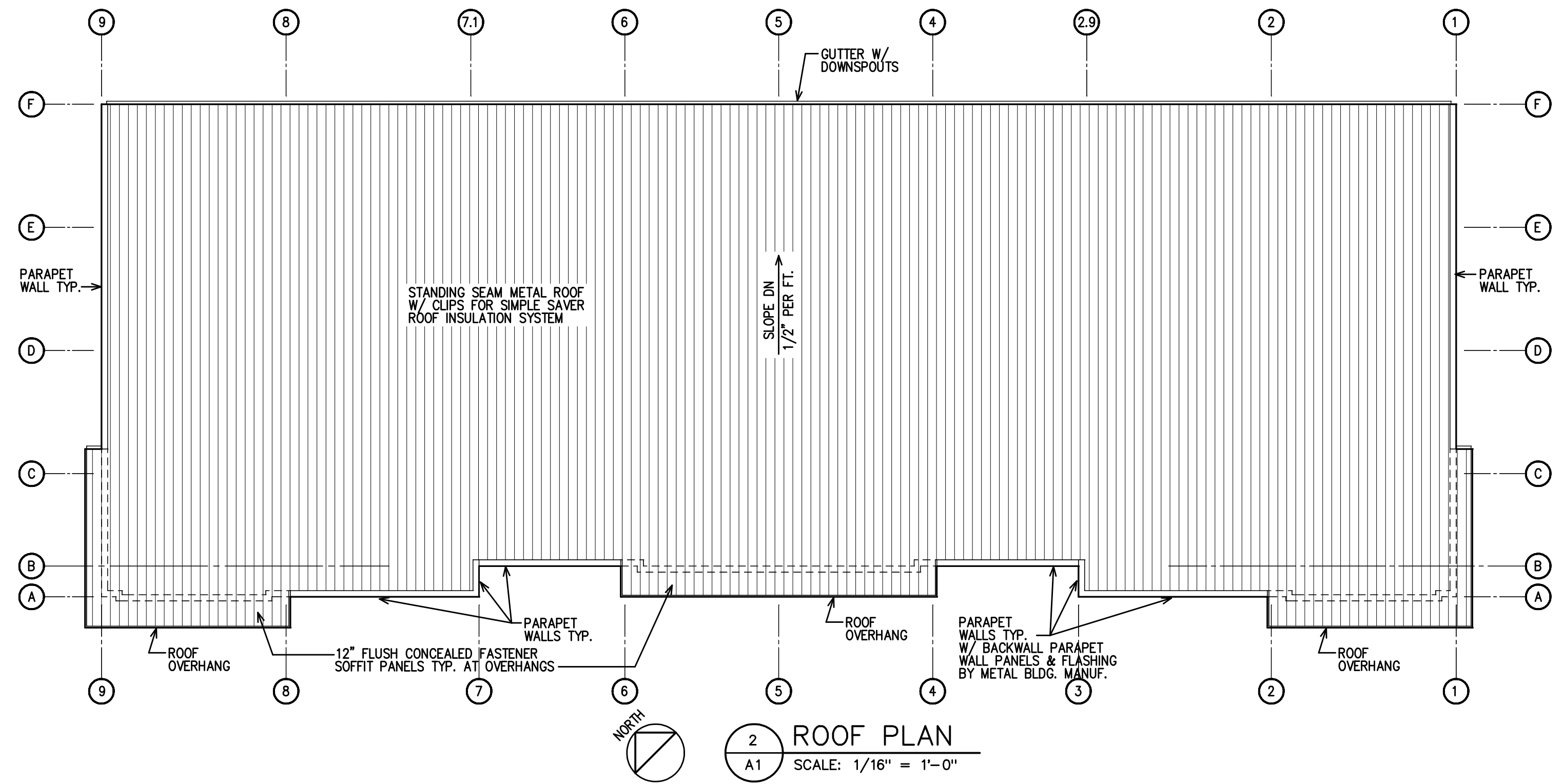
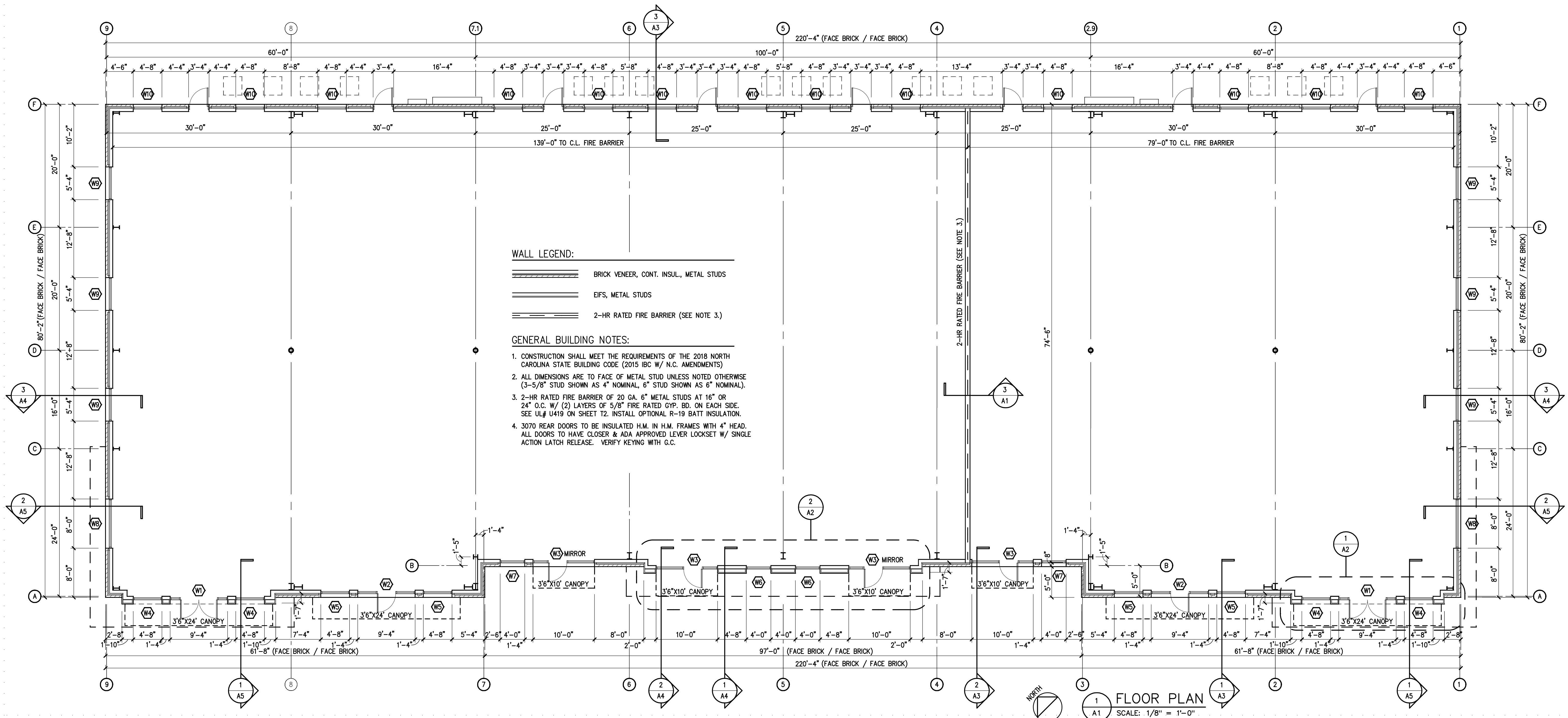


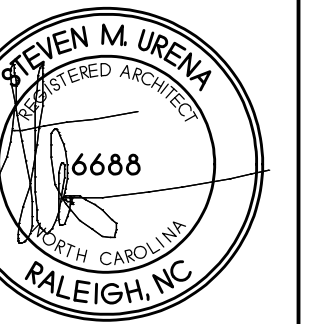
3 2-HR FIRE BARRIER DETAIL
A1 SCALE: 1-1/2" = 1'-0"



2 ROOF PLAN
A1 SCALE: 1/16" = 1'-0"



1 FLOOR PLAN
A1 SCALE: 1/8" = 1'-0"

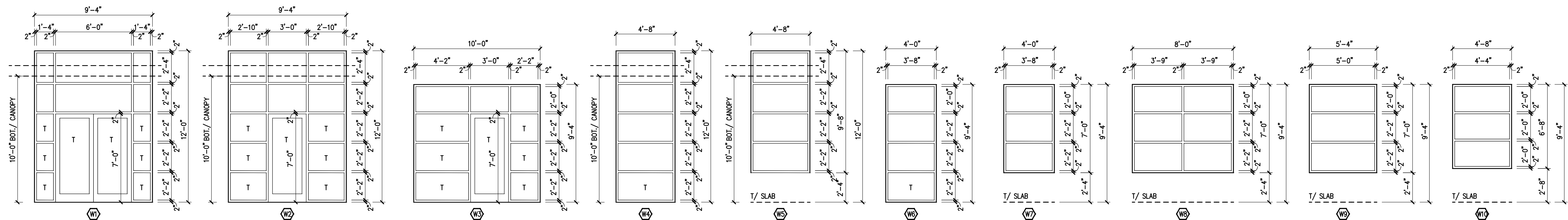


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CAMERON COMMERCIAL SHELL BUILDING
NC HWY 24-87
CAMERON, NC

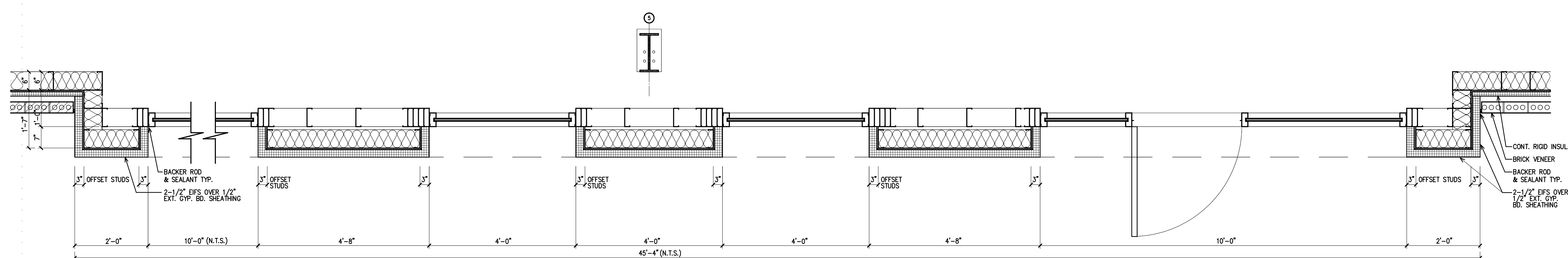
REVISIONS

FLOOR PLAN & ROOF PLAN
JUNE 7 - 2022
A1
216-P-HC

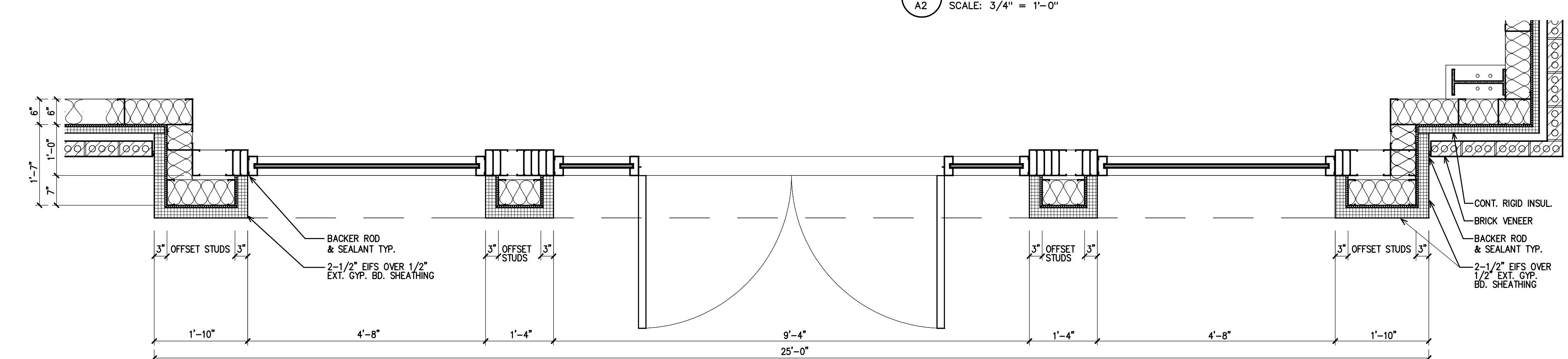


- STOREFRONT NOTES:
1. ALL GLASS IS 1" INSULATED W/ GREEN TINT.
 2. 'T' INDICATES TEMPERED GLASS LOCATIONS.
 3. FRAMES ARE THERMALLY BROKEN CLEAR ANODIZED ALUMINUM.
 4. ALL STOREFRONT DOORS TO HAVE CLOSER, LOCKSET & THUMBBLATCH. VERIFY KEYING W/ G.C.
 5. FIELD VERIFY ALL DIMENSIONS.

3 WINDOW ELEVATIONS
A2 SCALE: 1/4" = 1'-0"



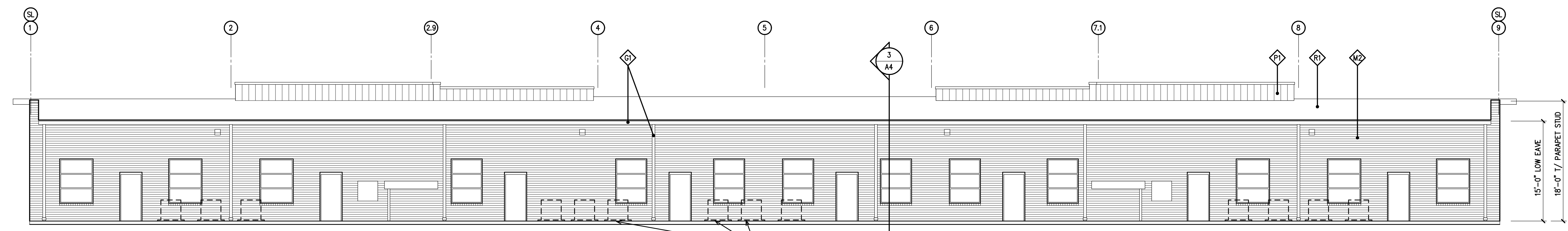
1 ENLARGED EIFS/ STOREFRONT DETAIL
A2 SCALE: 3/4" = 1'-0"



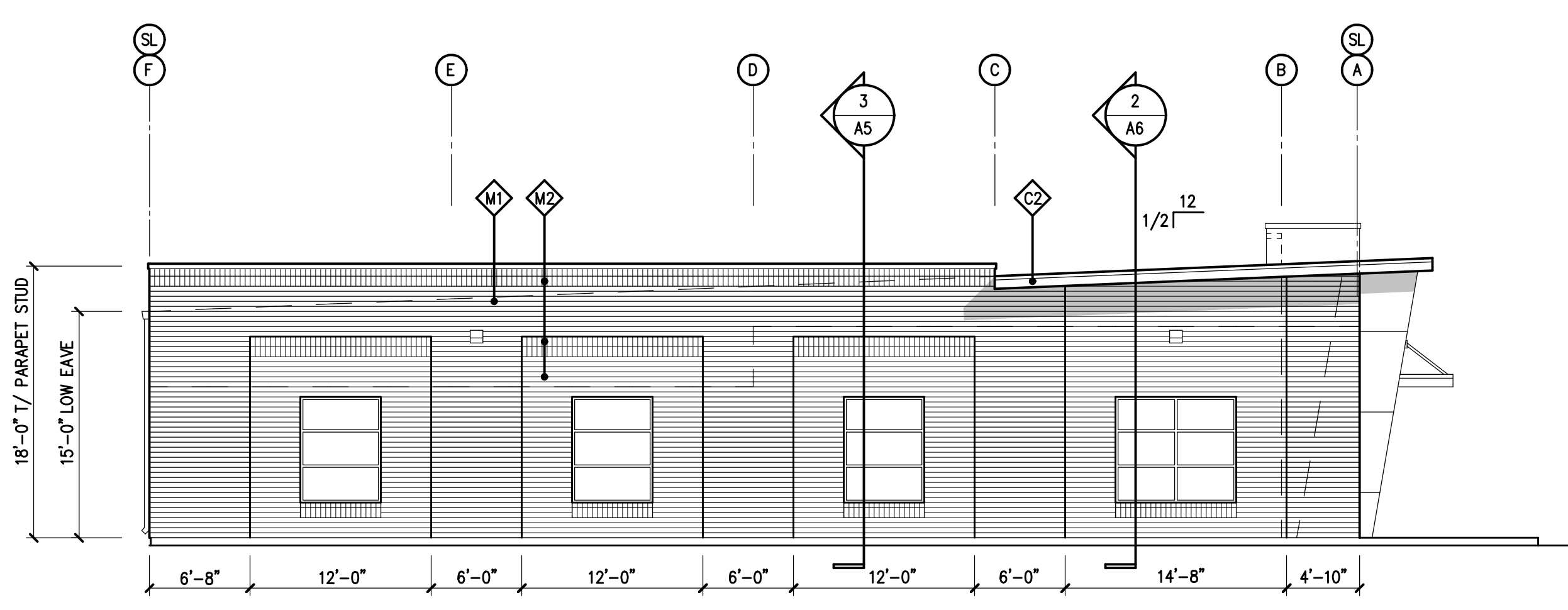
1 ENLARGED EIFS/ STOREFRONT DETAIL
A2 SCALE: 3/4" = 1'-0"

REVISIONS

WINDOW ELEVATIONS & DETAILS
JUNE 7 - 2022



4 REAR ELEVATION (NORTHEAST)
 A3 SCALE: 1/8" = 1'-0"

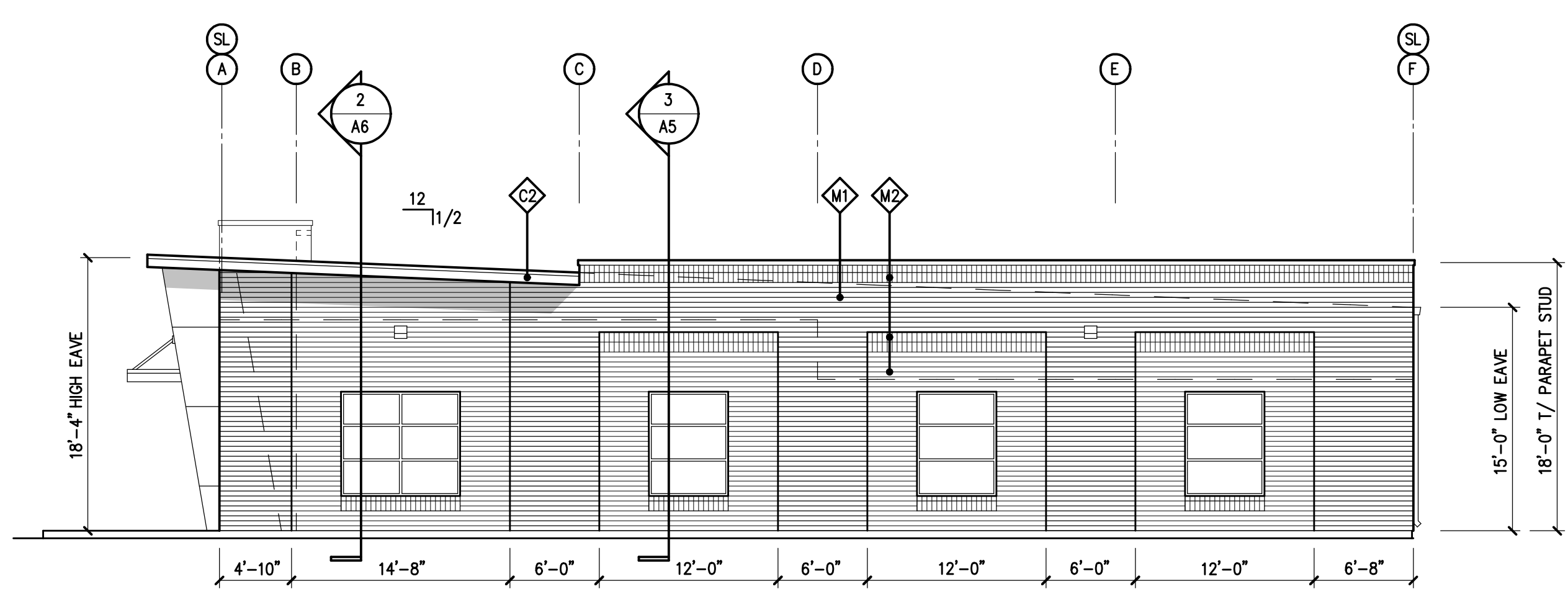


3 LEFT ELEVATION (NORTHWEST)
 A3 SCALE: 1/8" = 1'-0"
 IN VIEW OF HWY 24-87

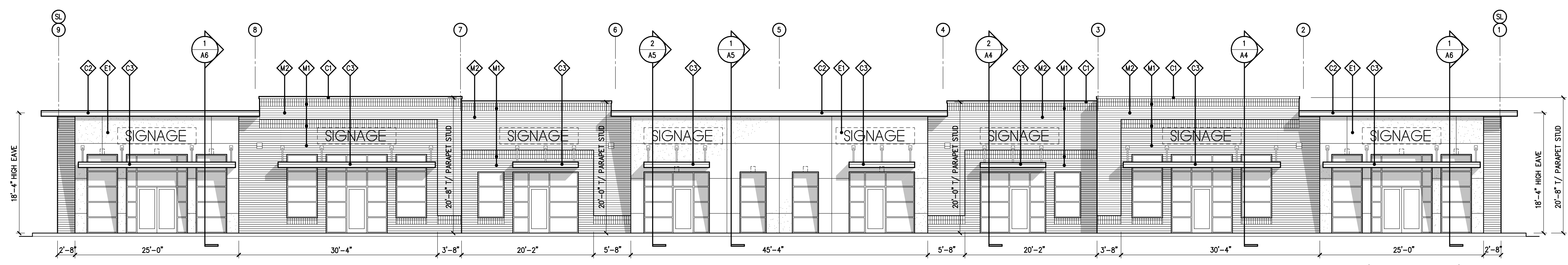
MATERIAL & COLOR SCHEDULE

- M1 BRICK - TAYLOR - (301 BUFF WIRECUT)
W/ COLORED MORTAR - HOLCIM - (DRIFTWOOD)
- M2 BRICK - TAYLOR - (371 AUTUMN BLEND)
W/ COLORED MORTAR - HOLCIM - (SANDBEIGE)
- E1 EIFS - DRYVT - (389 SOUTHERN TAN)
- C1 METAL COPING - (SILVER METALLIC)
- C2 METAL FASCIA TRIM BY NUCOR - (GALVALUME PLUS)
- C3 FLAT METAL CANOPY - (SILVER METALLIC)
- R1 METAL ROOF PANELS BY NUCOR - (GALVALUME)
- P1 BACKWALL PARAPET FLASHING BY NUCOR - (GALVALUME)
- G1 GUTTERS & DOWNSPOUTS BY NUCOR - (GALVALUME)

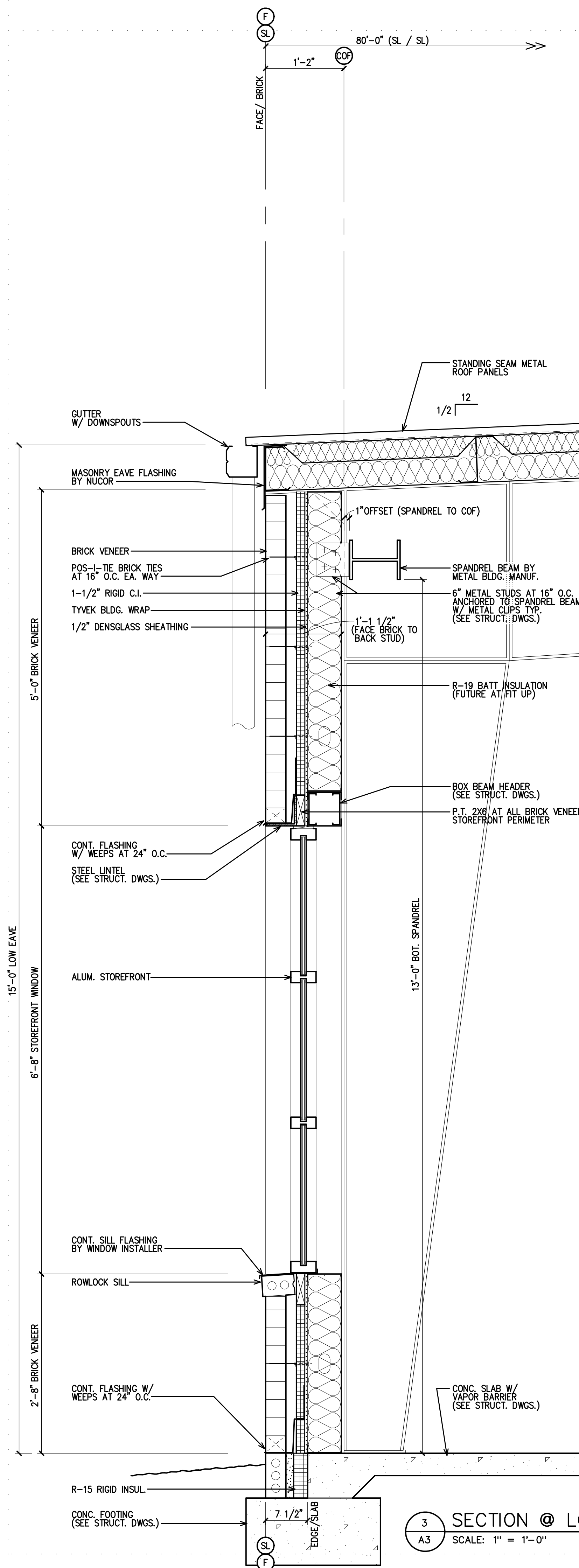
NOTE: ALL COLORS TO MATCH SCHEDULE OR BE ARCHITECT APPROVED EQUAL



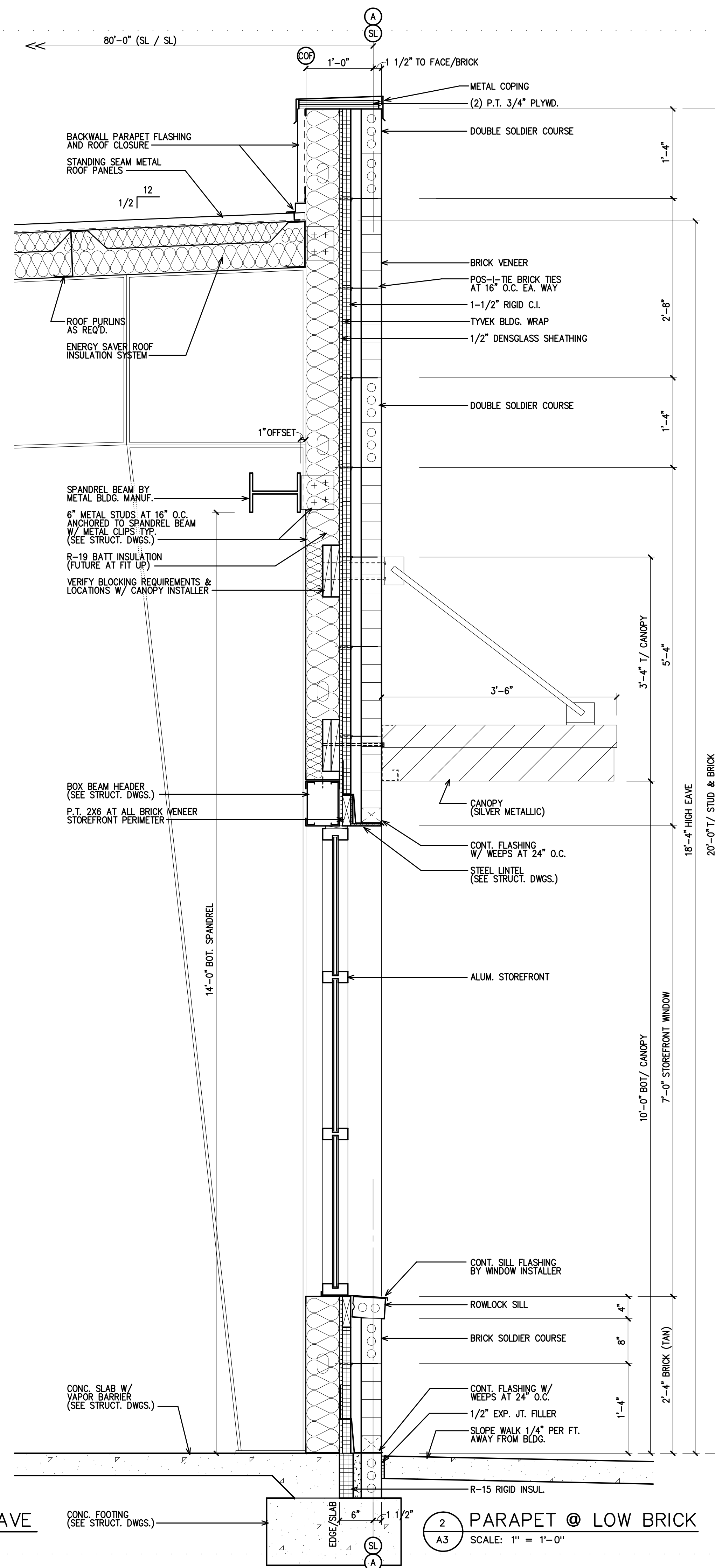
2 RIGHT ELEVATION (SOUTHEAST)
 A3 SCALE: 1/8" = 1'-0"
 IN VIEW OF HWY 24-87



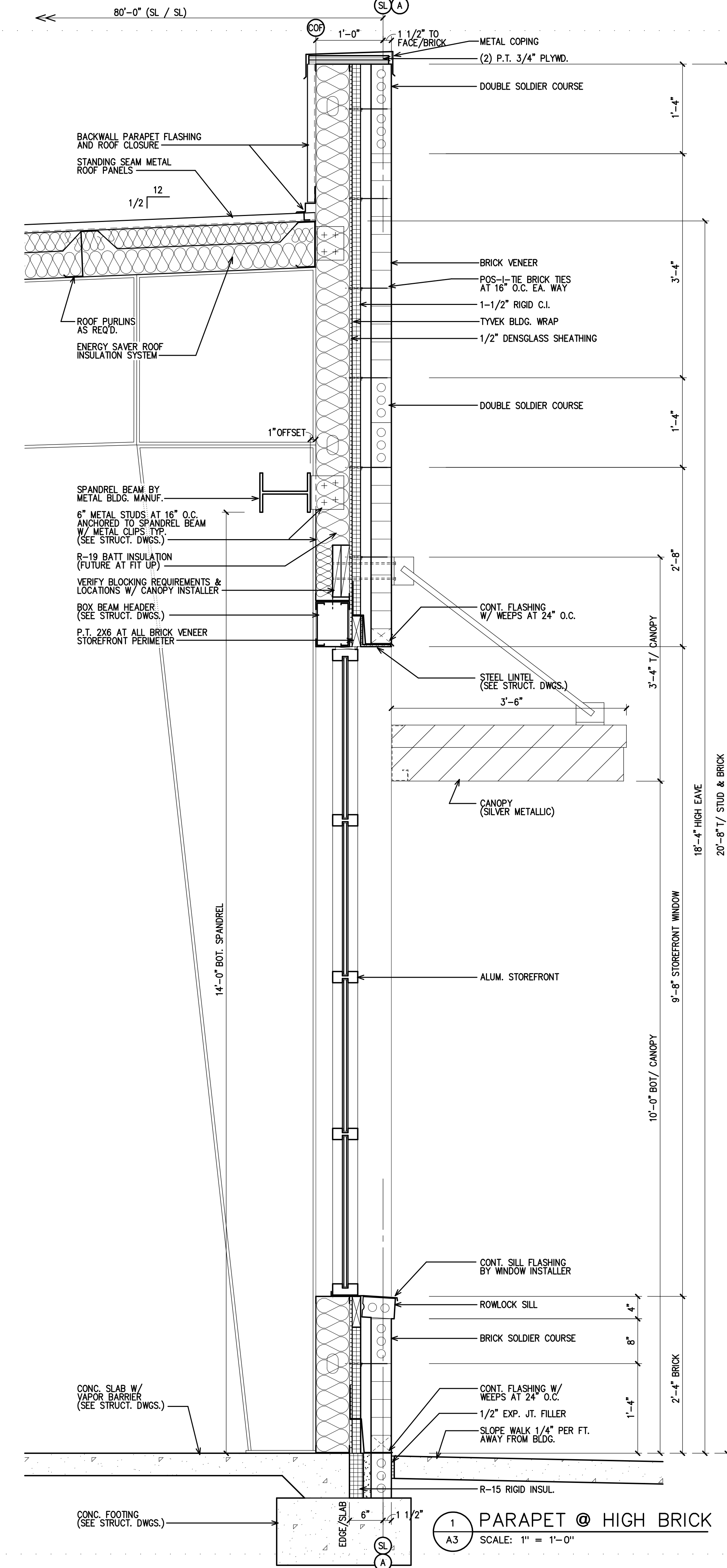
1 FRONT ELEVATION (SOUTHWEST)
 A3 SCALE: 1/8" = 1'-0"
 FACING HWY 24-87



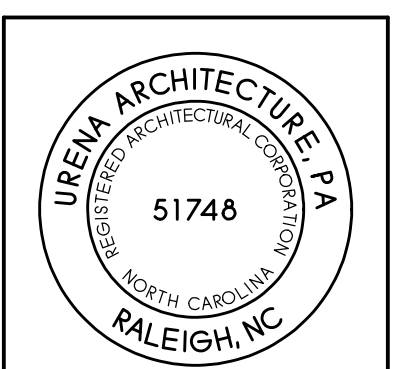
3 SECTION @ LOW EAVE
SCALE: 1" = 1'-0"



2 PARAPET @ LOW BRICK
SCALE: 1" = 1'-0"



1 PARAPET @ HIGH BRICK
SCALE: 1" = 1'-0"

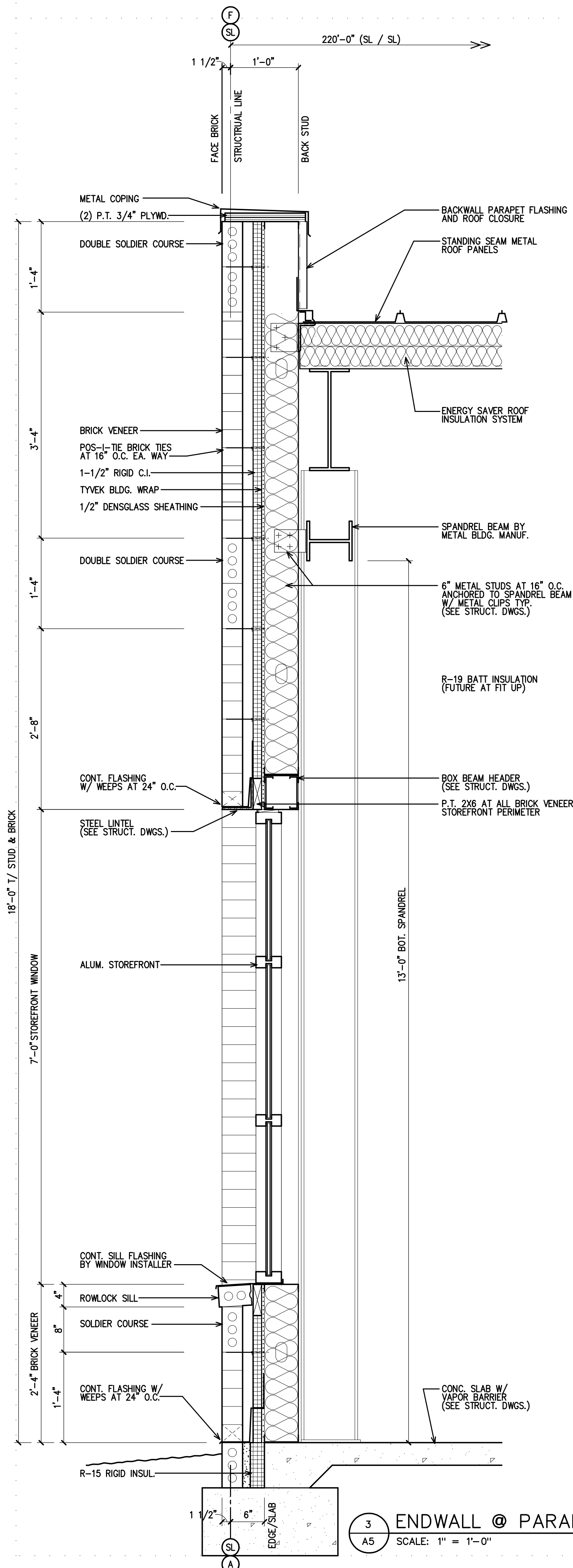


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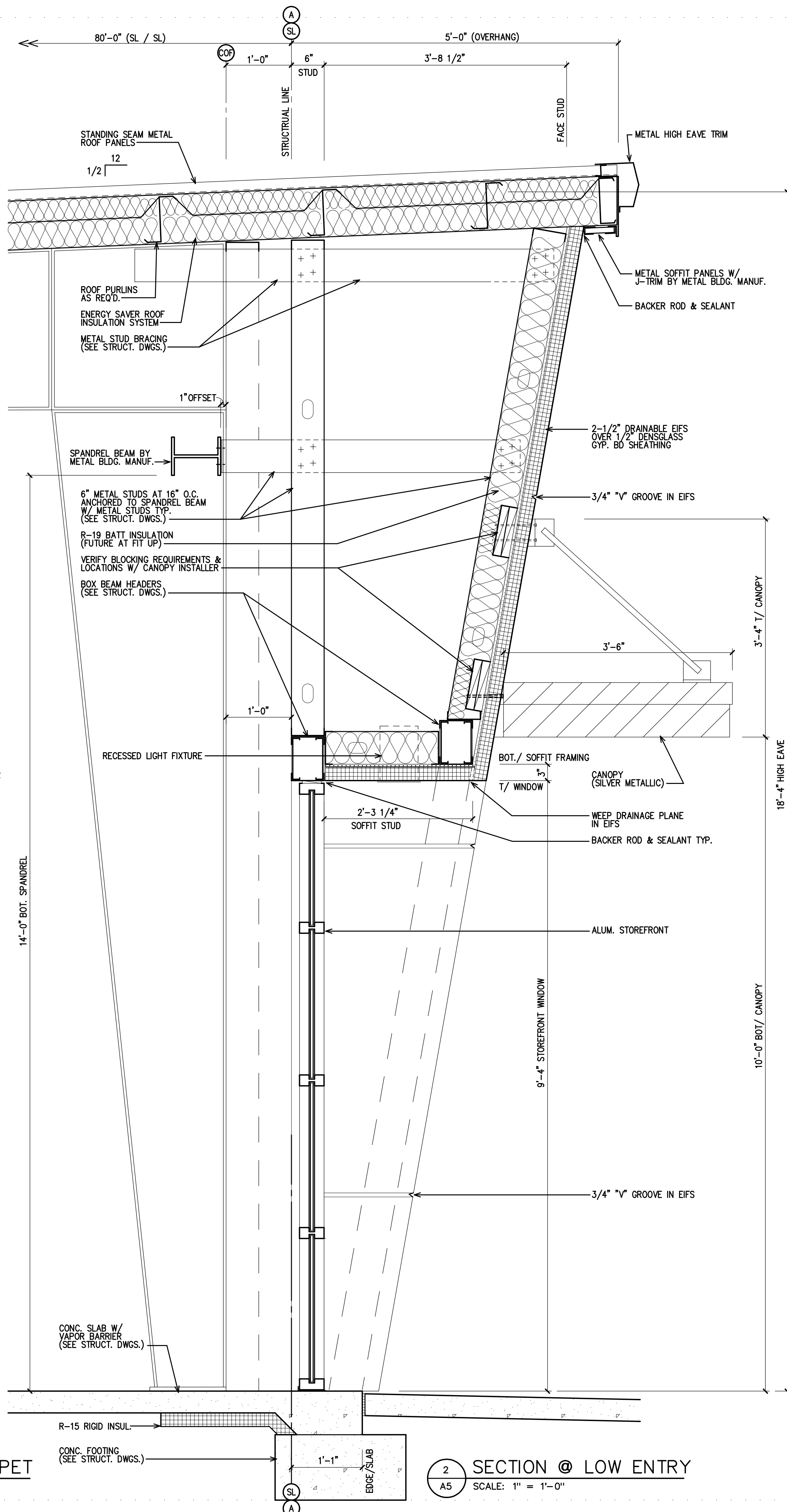
CAMERON COMMERCIAL SHELL BUILDING
NC HWY 24-87
CAMERON, NC

REVISIONS

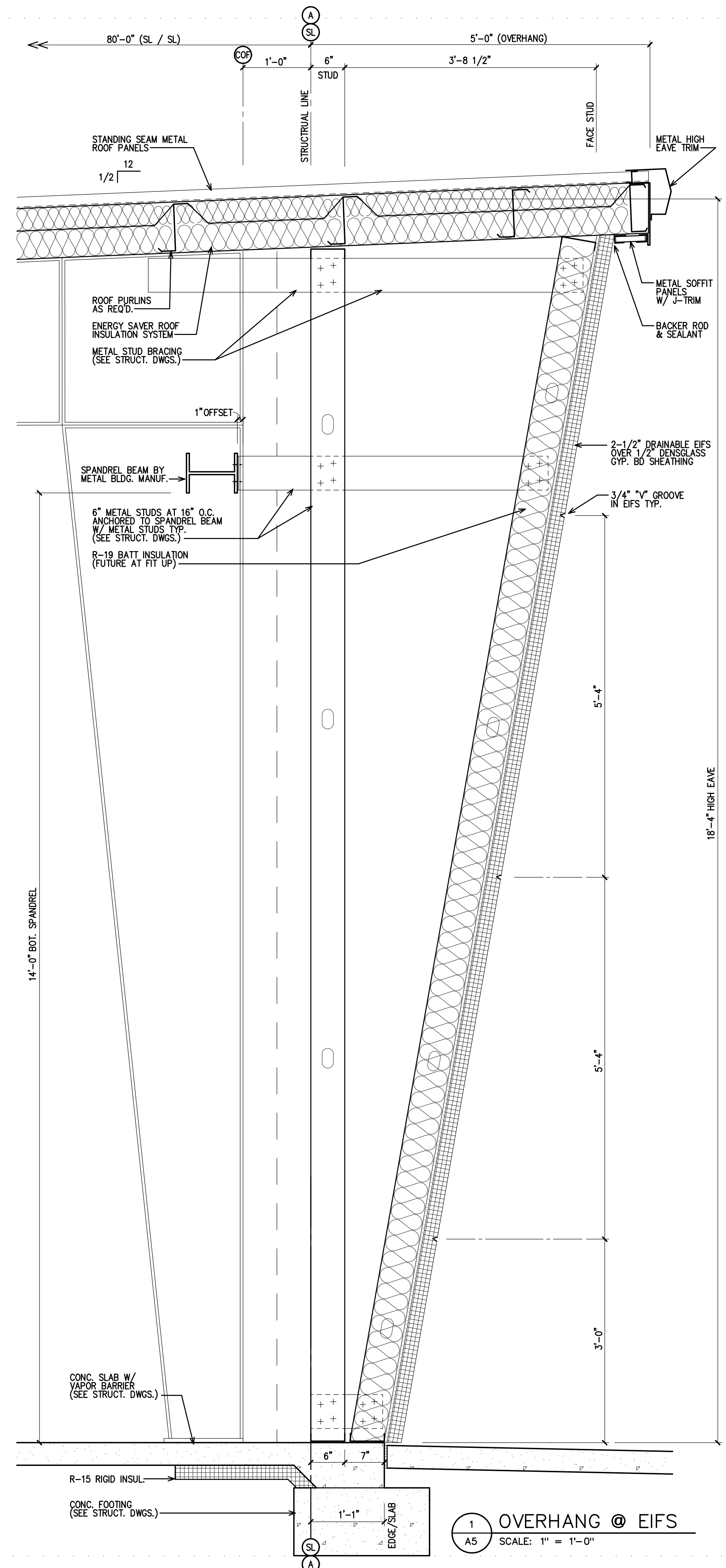
WALL SECTIONS
JUNE 7 - 2022
A4
216-S-HC



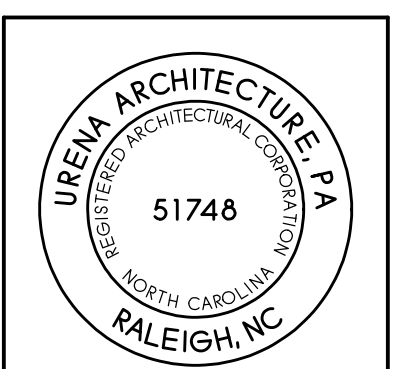
3 ENDWALL @ PARAPET
SCALE: 1" = 1'-0"



2 SECTION @ LOW ENTRY
SCALE: 1" = 1'-0"



1 OVERHANG @ EIFS
SCALE: 1" = 1'-0"



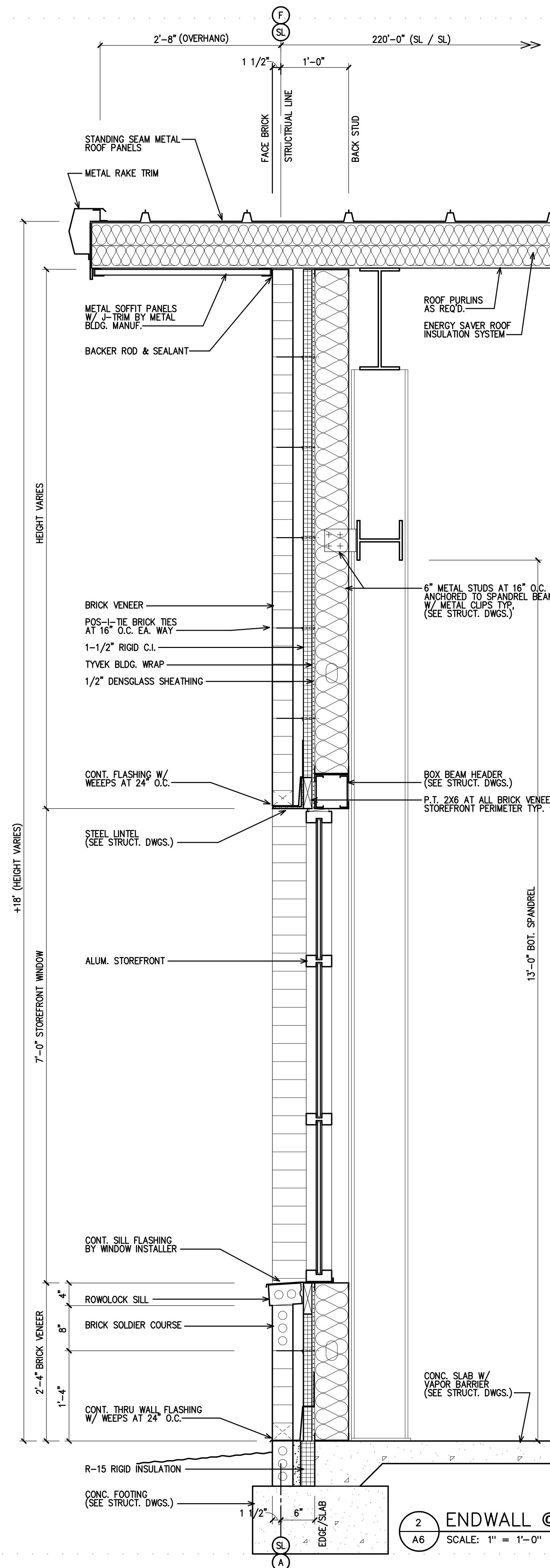
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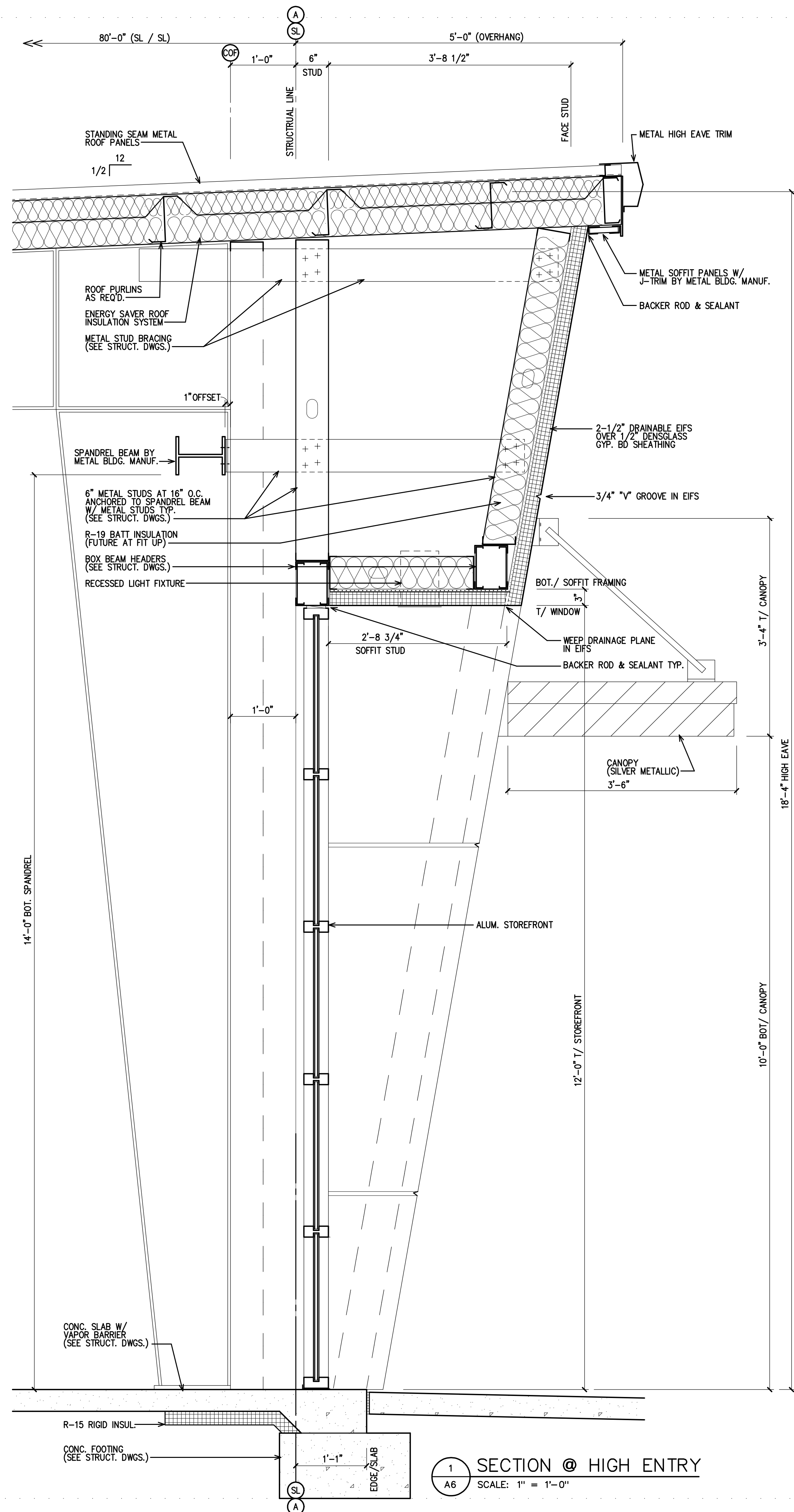
REVISIONS

WALL SECTIONS
JUNE 7 - 2022

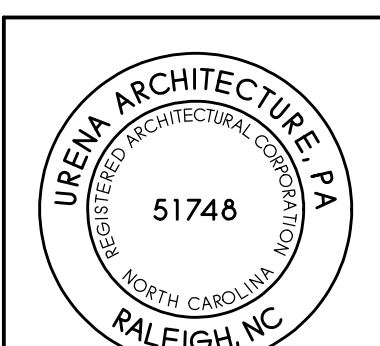
A5
216-S-HC



2 ENDWALL @ OVERHANG
A6 SCALE: 1" = 1'-0"



1 SECTION @ HIGH ENTRY
A6 SCALE: 1" = 1'-0"



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 NC HWY 24-87
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REVISIONS

WALL SECTIONS
 JUNE 7 - 2022
A6
 216-S-HC



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 RALEIGH, NC 27604
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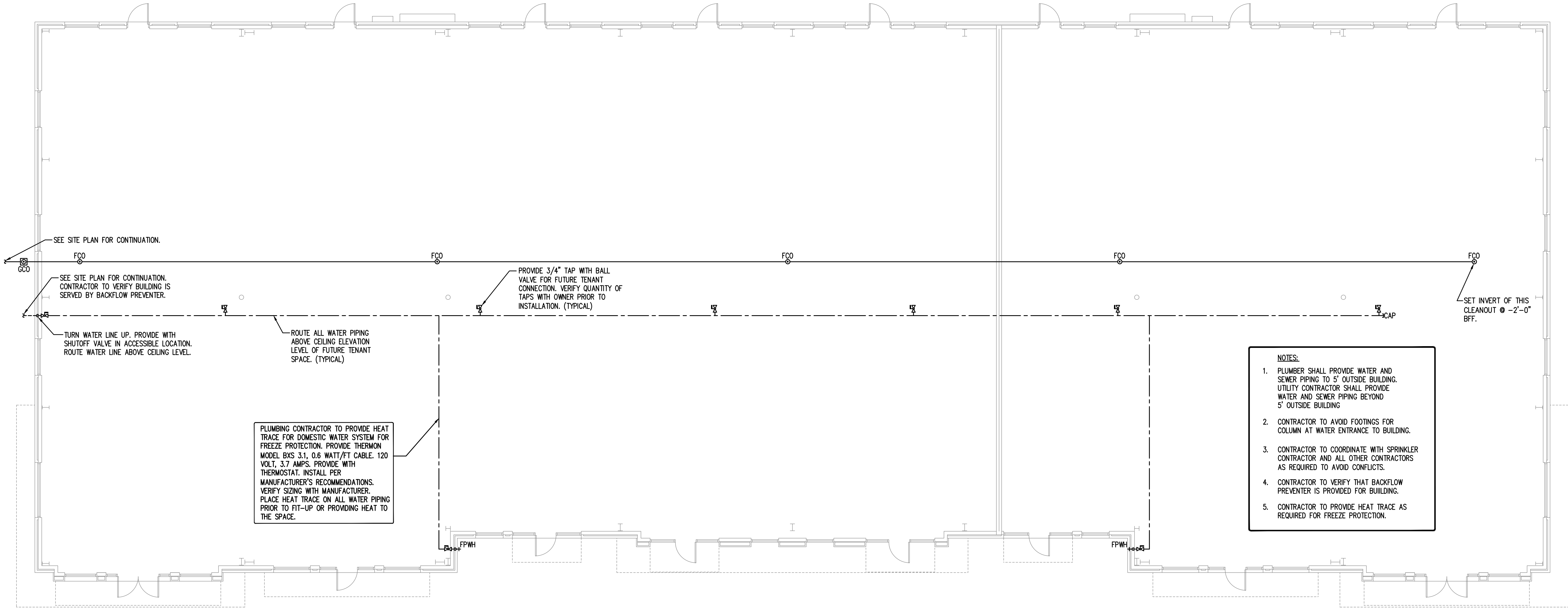
CAMERON COMMERCIAL SHELL BUILDING
 NC HWY 24-87
 CAMERON, NC

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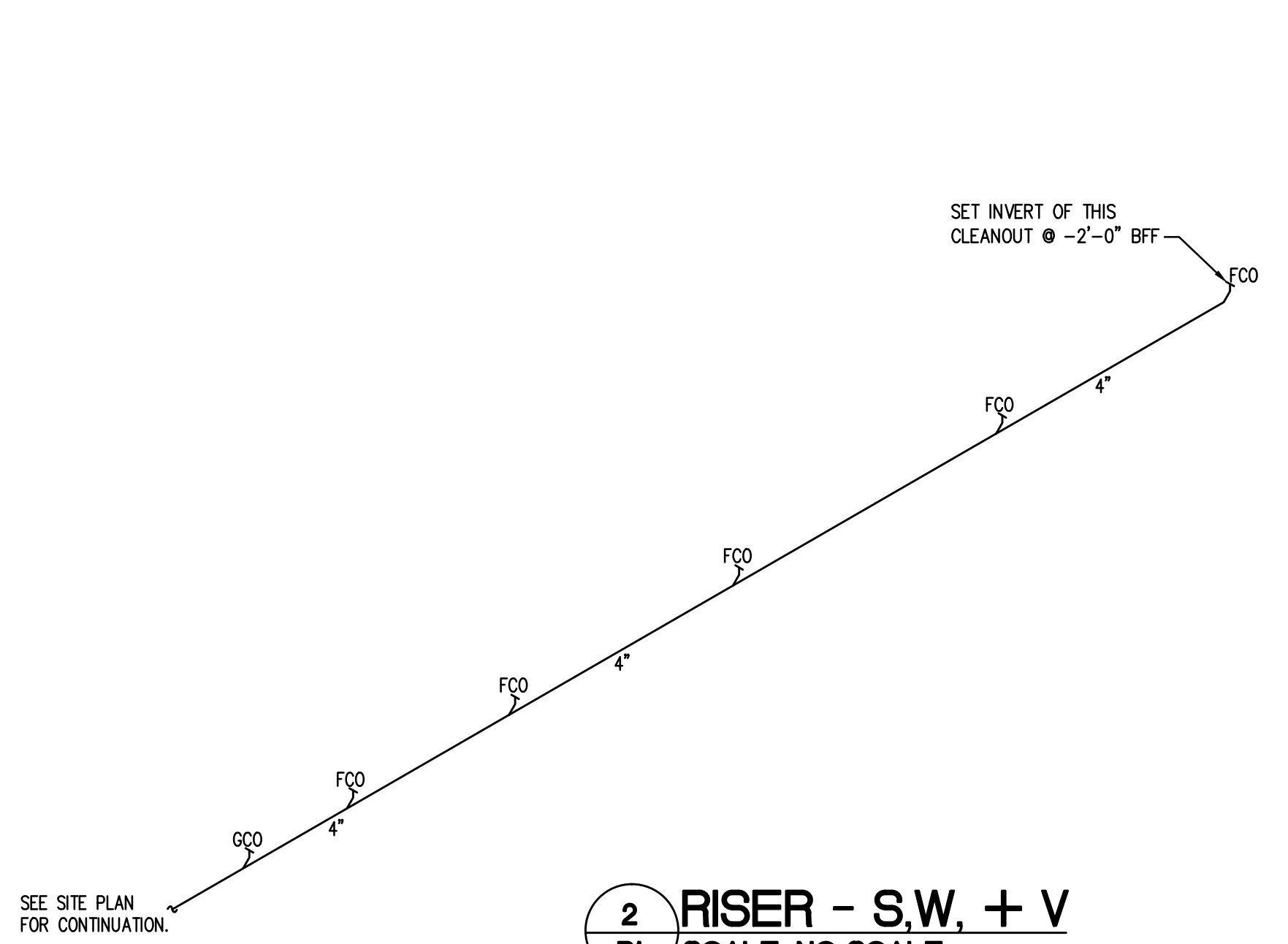
PLUMBING FLOORPLANS

5/26/21

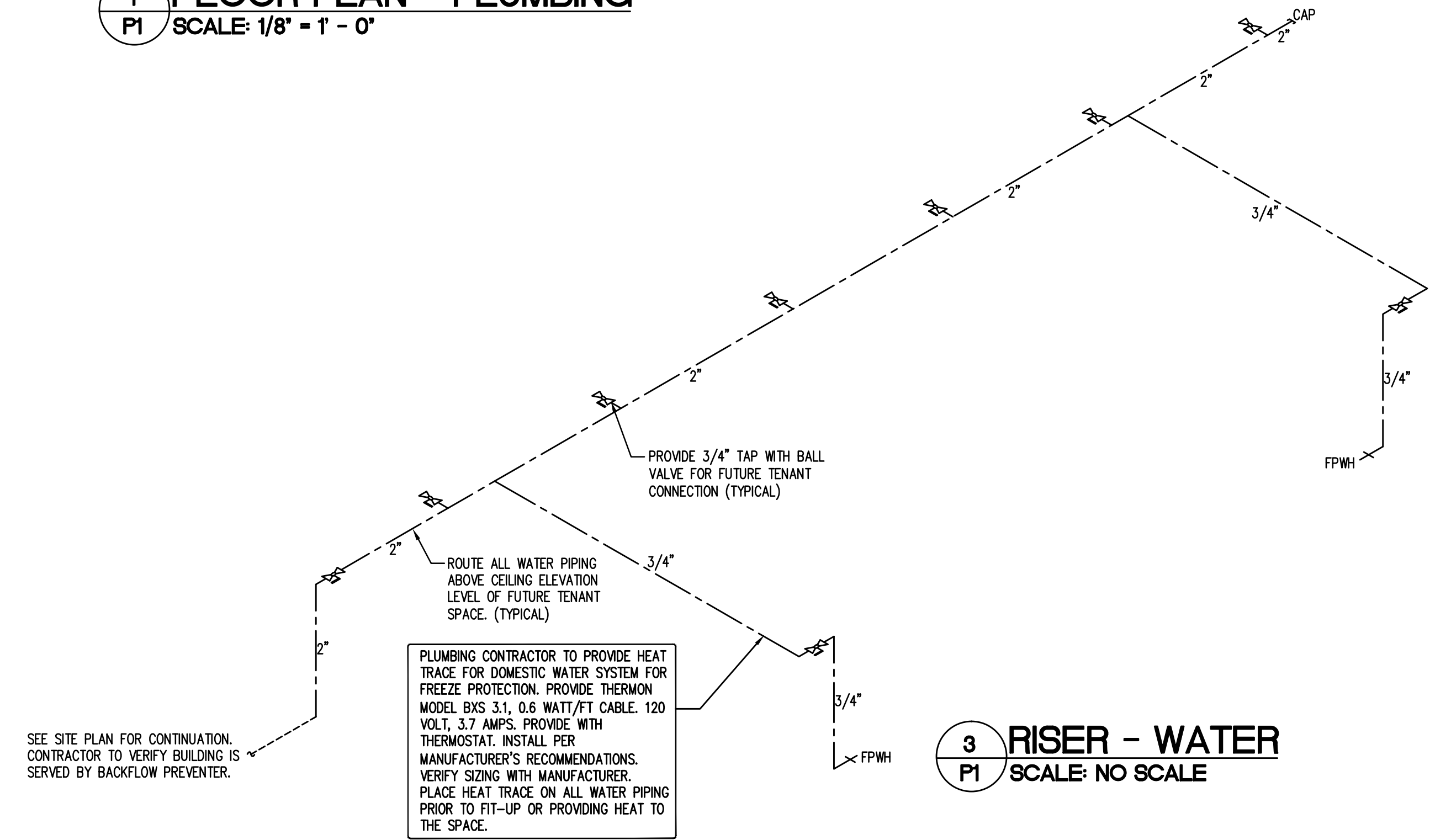
P1



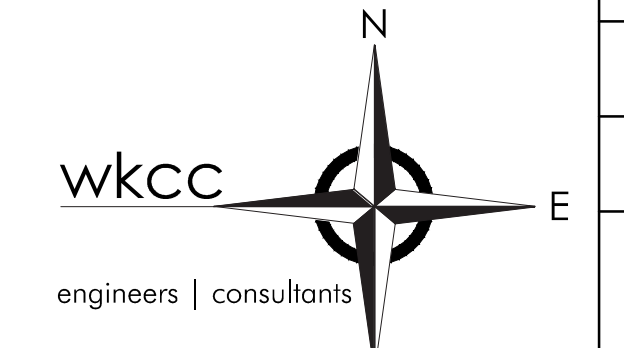
1 FLOOR PLAN - PLUMBING
 P1 SCALE: 1/8" = 1' - 0"



2 RISER - S.W., + V
 P1 SCALE: NO SCALE



3 RISER - WATER
 P1 SCALE: NO SCALE



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 C-1474

PLUMBING SPECIFICATIONS

PLUMBING SPECIFICATIONS:

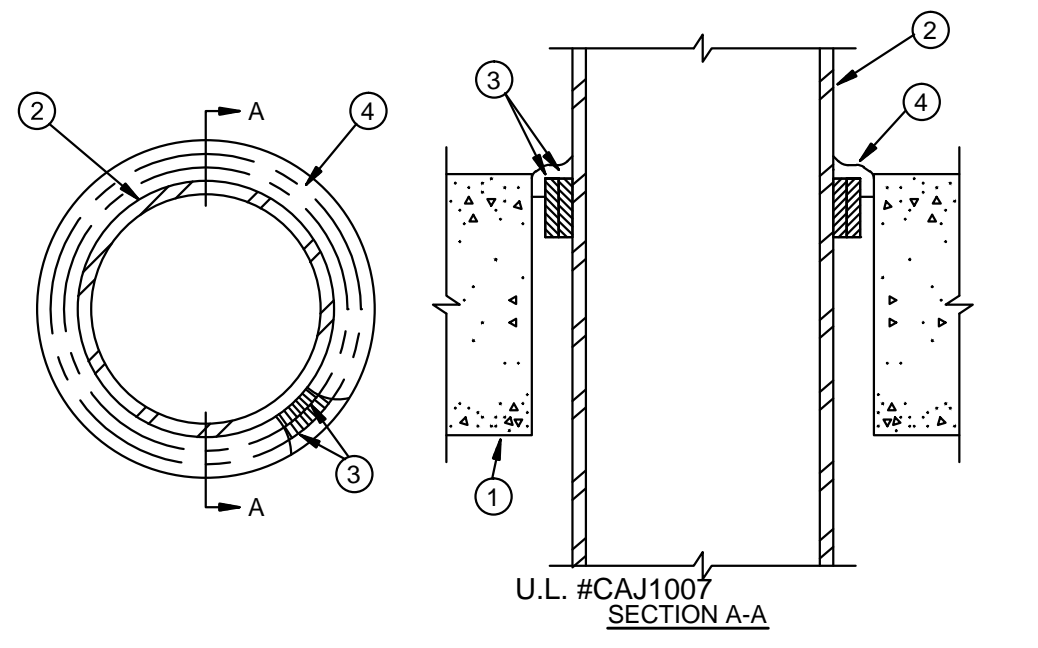
- 1.) THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH 2018 NORTH CAROLINA PLUMBING CODE AND LOCAL PLUMBING INSPECTOR.
- 2.) ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
- 3.) THESE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSET, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING PLUMBING SYSTEM.
- 4.) THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC.
- 5.) CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS PRIOR TO BEGINNING WORK.
- 6.) ALL DOMESTIC WATER PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.
- 7.) ALL DOMESTIC WATER PIPING (ABOVE SLAB) SHALL BE TYPE "L" COPPER WITH 95/5 LEAD FREE SOLDER. ABOVE SLAB, OUTSIDE OF PLENUM SPACES, PEX PIPING IS ACCEPTABLE. ALL WATER PIPING (BELOW SLAB) SHALL BE TYPE "K" SOFT COPPER. COMPLY W/ ASTM B-88-88A.
- 8.) ALL WATER PIPING SHALL BE INSULATED WITH CLOSED CELL (ARMAFLEX) TYPE INSULATION WITH THE FLAME DENSITY RATING NOT EXCEEDING 25 & THE SMOKE DENSITY RATING NOT EXCEEDING 50. THICKNESS FOR COLD WATER PIPING SHALL BE 1/2" THICK. THICKNESS FOR HOT WATER & RETURN PIPING SHALL BE 1" THICK.
- 9.) ALL BRANCH LINES SHALL HAVE SHUT-OFF VALVES. ALL DOMESTIC WATER BALL VALVES SHALL BE BRASS BODY, FULL PORT, CHROME PLATED BALL, TEFLON SEATS, 150# WSP, FOR SIZES 1/2" THRU 2". SIZES ABOVE 2" SHALL BE BRONZE GATE VALVE, NRS SOLID DISC, SCREW OVER BONNET, 125# WSP. PROVIDE VALVE HANDLE EXTENSIONS AS REQUIRED FOR INSULATION.
- 10.) ALL PLUMBING FIXTURES AND KITCHEN EQUIPMENT SHALL HAVE A PISTON TYPE WATER HAMMER ARRESTOR SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS & PDI STANDARDS.
- 11.) ALL SANITARY SEWER PIPING SHOWN IS BELOW SLAB/WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.
- 12.) ALL WASTE & VENT PIPING (ABOVE SLAB) SHALL BE PVC-DWV WITH PIPING AND FITTINGS CONFORMING TO ASTM D-2665. PLENUM SPACE WASTE & VENT PIPING (ABOVE SLAB) SHALL BE SERVICE WEIGHT CAST IRON WITH NO-HUB FITTINGS CONFORMING TO CSPI 301. JOINTS SHALL BE ONE-PIECE NEOPRENE GASKET WITH STAINLESS STEEL BAND AND BOLTS CONFORMING TO ASTM C564-85.
- 13.) ALL WASTE & VENT PIPING (BELOW SLAB) SHALL BE PVC-DWV WITH PIPING AND FITTINGS CONFORMING TO ASTM D-2665.
- 14.) ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY 2018 NORTH CAROLINA PLUMBING CODE & MANUFACTURER'S RECOMMENDATIONS.
- 15.) ALL PIPING PENETRATIONS THRU NEW/EXISTING WALLS/FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE NEW/EXISTING WALL OR FLOOR.
- 16.) ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED BY 2018 NORTH CAROLINA PLUMBING CODE.
- 17.) THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDERSLAB PLUMBING PIPING WITH ALL STRUCTURAL FOUNDATIONS. P.C. SHALL COORDINATE ALL UNDERSLAB PLUMBING PIPING ELEVATION INVERTS WITH SITE UTILITY ELEVATION INVERTS.
- 18.) P.C. SHALL COORDINATE ALL KITCHEN EQUIPMENT REQUIRING PLUMBING CONNECTIONS WITH KITCHEN EQUIPMENT VENDOR. PROVIDE ALL NECESSARY P-TRAPS, SUPPLY STOPS, INDIRECT PIPING, ETC. REQUIRED FOR COMPLETE HOOK-UP OF KITCHEN EQUIPMENT REQUIRING PLUMBING CONNECTIONS.
- 19.) THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED AS REQUIRED PER LOCAL AUTHORITY.
- 20.) THE ENTIRE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH 2018 NORTH CAROLINA PLUMBING CODE.
- 21.) ALL VENT THRU THE ROOF PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND SHALL BE CONCEALED BEHIND ROOF RIDGE WHERE POSSIBLE. P.C. SHALL PROVIDE ALL FLASHING MATERIAL REQUIRED FOR VENT THRU ROOF. ALL VIR'S SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES.
- 22.) ALL GAS PIPING AND GAS FLUE TO GAS WATER HEATER BY PLUMBING CONTRACTOR.
- 23.) PLUMBING CONTRACTOR SHALL HAVE RECEIVED APPROVED SHOP DRAWINGS FROM THE ENGINEER PRIOR TO BEGINNING NEW WORK.

PLUMBING LEGEND AND ABBREVIATIONS

	SANITARY SEWER PIPING (W)
	VENT PIPING (V)
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER RETURN PIPING (HWR)
	ELL TURNS UP
	ELL TURNS DOWN
	CHECK VALVE
	BALL VALVE
	GATE VALVE IN HORIZONTAL POSITION
	CLEANOUT IN GROUND (GCO)
	CLEANOUT IN FLOOR OR SLAB (FCO)
A.F.F.	ABOVE FINISH FLOOR
FD - A	FLOOR DRAIN - TYPE (SEE SCHEDULE)
H.B.	HOSE BIBB
FPWH	FREEZE PROOF WALL HYDRANT
H.D.	HUB DRAIN
INV. ELEV. OR I.E.	INVERT ELEVATION
P.C.	PLUMBING CONTRACTOR
V.T.R.	VENT THROUGH ROOF
CV	COMMON VENT
EOCV	END OF CIRCUIT VENT
BOCV	BEGINNING OF CIRCUIT VENT
	CONNECT TO EXISTING

PLUMBING FIXTURES AND EQUIPMENT

MARK	DESCRIPTION	PIPE SERVICE AND CONN. SIZE			FIXTURE SPECIFICATIONS
		CW	HW	WASTE	
FPWH	FREEZE PROOF WALL HYDRANT	3/4"			WOODFORD MODEL 65, NON-FREEZE, AUTOMATIC DRAINING WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER, AND LOOSE TEE KEY OPERATION.



1. **Floor or Wall Assembly** - Lightweight or normal weight (100-150 pcf) concrete. Min. thickness of concrete floor or wall assembly is 4-1/2 in. for 2 and 3 hr F Ratings and 5-1/2 in. for 4 hr F Rating. Wall may also be constructed of any UL Classified Concrete Blocks*. Max. diam. of circular opening is 13-1/2 in.
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
 2. **Steel Pipe or Conduit** - Nom. 12 in. diam. (or smaller) Schedule 10 (or heavier) steel pipe, nom. 6 in. diam. (or smaller) steel conduit or nom. 4 in. diam. (or smaller) steel EMT. Max. one pipe or conduit per opening, centered in opening. Min. clearance between pipe or conduit and sides of through opening is 1/4 in. Max. clearance between pipe or conduit and sides of through opening is 1-3/4 in. for 2 hr F Rating and 3/4 in. for 3 and 4 hr F Ratings. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly.
 3. **Fill, Void or Cavity Materials** - Wrap Strip - Nom. 1/4 in. thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. wide strips. For the 2 and 3 hr F Ratings, min. 1 in. wide strip(s) wrapped around pipe/conduit (foil side exposed) until OD of wrap strip is equal to or max. 3/16 in. less than ID of circular through opening. Wrap strip tightly bound with steel tie wire or pressure-sensitive tape and slid into through opening such that the top edge of the wrap strip(s) is recessed 1/4 in. from top surface of floor or, in wall assemblies, such that the wrap strip(s) is centered in the wall thickness. For the 4 hr F Rating, nom 2 in. wide strip(s) wrapped around pipe/conduit (foil side exposed) on each side of the floor or wall assembly until OD of wrap strip is equal to or max 3/16 in. less than ID of circular through opening. Wrap strip tightly bound with steel tie wire or pressure-sensitive tape and slid into through opening on each side of floor or wall assembly such that the exposed edges are recessed 1/4 in. from the floor or wall surfaces.
 4. **Fill, Void or Cavity Materials** - Caulk - Nom 1/4 in. thickness of caulk to be applied to the exposed edge(s) of the wrap strip and to fill all voids between the pipe/conduit and the periphery of the through opening. For 2 and 3 hr F Rating in floor assemblies, caulk to be installed flush with top surface of floor. For wall assemblies and for the 4 hr F Rating in floor assemblies, caulk to be applied on both sides of assembly.
- Minnesota Mining & Mfg. Co. - Types CP-25 S/L, CP-25 N/S, CP-25 WB, CP-25 WB+.
(Note: L Ratings apply only when Type CP-25 WB+ caulk is used.)
- *Bearing the UL Classification Marking
Minnesota Mining & Mfg. Co. - Types FS-195, FS-195+

1 2,3 OR 4 HOUR PENETRATION FIRESTOP SCALE: NONE

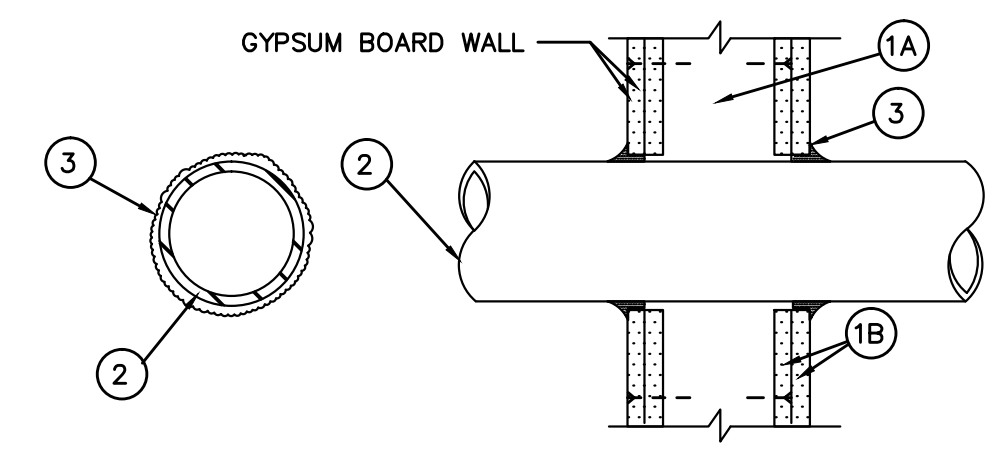
PLUMBING ACCESSORIES

SYMBOL	SPECIFICATION
FS-A	PLASTIC ODDITIES PFS SERIES 12"x12"x10" DEEP, PVC, 1/2" GRATE, WITH PLASTIC, REMOVABLE SECONDARY STRAINER.
FS-B	ZURN Z1907 CAST IRON BODY, 12"x12"x8" DEEP, BOTTOM DOME STRAINER WITH REMOVABLE SECONDARY STRAINER.
FD-A	ZURN ZN-415 DURACOATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MBRANE CLAMP AND ADJUSTABLE COLLAR WITH 6" TYPE "B" POLISHED NICKEL BRONZE STRAINER. DEEP SEAL P-TRAP WITH TRAP PRIMER CONNECTION
FD-B	ZURN ZN-415 DURACOATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MBRANE CLAMP AND ADJUSTABLE COLLAR WITH 7" TYPE "I" POLISHED NICKEL BRONZE STRAINER WITH RAISED FLANGE. DEEP SEAL P-TRAP WITH TRAP PRIMER CONNECTION
FCO	ZURN ZN-1400 "LEVELTROL" ADJUSTABLE FLOOR CLEANOUT, DURACOATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SCORRIATED POLISHED NICKEL BRONZE TOP ADJUSTABLE TO FINISH FLOOR.
WCO	ZURN ZN-1441 WALL CLEANOUT, DURACOATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SMOOTH STAINLESS STEEL ACCESS COVER WITH SECURING SCREW.
SA	WATTS SERIES 15 WATER HAMMER ARRESTOR TO MEET ALL REQUIREMENTS OF ASSE 1010 AS REQUIRED BY 2018 NCSBC, PLUMBING CODE, SECTION 604.9.
VB	ZURN MODEL VACUUM BREAKER TO MEET ALL REQUIREMENTS OF ASSE 1011 AS REQUIRED BY 2018 NCSBC, PLUMBING CODE, SECTION 608.13.6.

PLUMBING SUMMARY

SYSTEM & MATERIAL	FIXTURE UNITS	MAIN SIZE
WASTE AND VENT SYSTEM		
SCHEDULE 40 PVC-DWV CONFORMING TO ASTM D-2665	-	4"
DOMESTIC WATER SYSTEM		
BELOW SLAB: TYPE "K" SOFT COPPER WITH NO JOINTS BELOW SLAB ABOVE SLAB: TYPE "L" ANNEALED COPPER WITH 95/5 SOLDER JOINTS.	-	2" - GPM

NOTE:
ALL MINIMUM FACILITIES CALCULATIONS AND ACCESSIBILITY CODE REQUIREMENTS WILL BE PROVIDED AT TIME OF FIT-UP

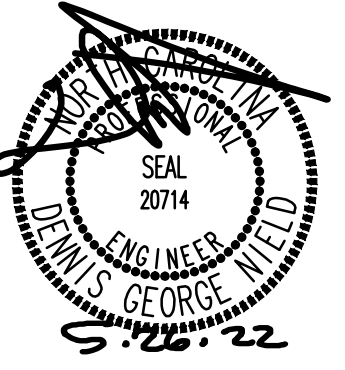


- System No. W-L-1001
June 15, 2005
- F Ratings - 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings - 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient - less than 1 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft
1. **Wall Assembly** - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - A. **Studs** - Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
 - B. **Gypsum Board*** - Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).
 2. **Through-Penetrant** - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. / (0 mm). (point contact) to max 2 in. (51 mm) Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - A. **Steel Pipe** - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - B. **Iron Pipe** - Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
 - C. **Conduit** - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing
 - D. **Copper Tubing** - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing
 - E. **Copper Pipe** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
 - F. **Through Penetrating Product*** - Flexible Metal Piping The following types of steel flexible metal gas piping may be used:
 - 1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
OMEGA FLEX INC
 - 2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
GASTITE, DIV OF TITEFLEX
 - 3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
WARD MFG INC
 3. **Fill, Void or Cavity Material*** - Caulk or Sealant - Min 5/8 ., 1-1/4, 1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

 - *When copper pipe is used, T Rating is 0 h.
- 3M COMPANY - CP 25WB+ or FB-3000 WT.**

2 2,3 OR 4 HOUR PENETRATION SCALE: NTS



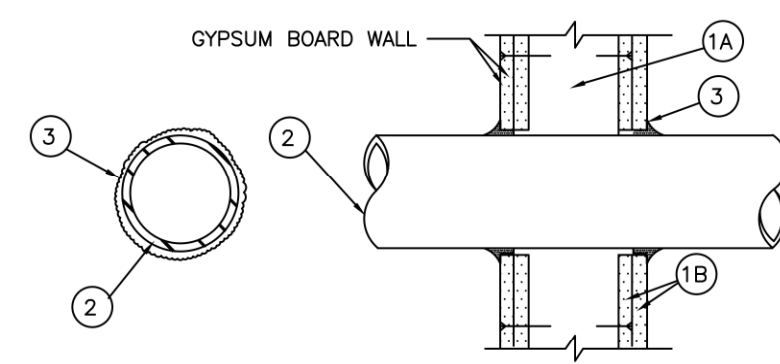
URENANO
ARCHITECTURE
URENA ARCHITECTURE, P.A.
22 FOWELL DR. SUITE 100
RALEIGH, NC 27606
TEL (919) 652-2029 FAX (919) 652-2022

CAMERON COMMERCIAL SHELL BUILDING
NC HWY 24-87
CAMERON, NC

REVISIONS
PLUMBING DETAILS
5/26/21
P2

GENERAL NOTES AND REQUIREMENTS.

- 1. WORKMANSHIP SHALL CONFORM TO NECA PUBLICATION "STANDARDS OF INSTALLATION".
2. INSTALLATION SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, STATE BUILDING CODE, AND ALL REQUIREMENTS OF THE LOCAL INSPECTOR (FURNISH INSPECTION CERTIFICATE).
3. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS.
4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT.
5. ALL BRANCH CIRCUITS SHALL BE IN ZINC-COATED EMT, OR RIGID CONDUIT AS PERMITTED OR REQUIRED BY THE NATIONAL ELECTRICAL CODE.
6. PROVIDE 4" WIDE PLASTIC TAPE, MAGNETIC DETECTABLE TYPE, COLORED RED WITH SUITABLE WARNING LEGEND DESCRIBING BURIED ELECTRICAL LINES OR ORANGE DESCRIBING BURIED TELEPHONE LINES.
7. ALL CONDUCTORS SHALL BE COPPER TYPE THHN, OR XHHW, SOLID FOR #10 AWG OR #12 AWG, AND STRANDED FOR ALL LARGER SIZES.
8. ALL WIRING SHALL BE CONCEALED IN WALLS, UNDER SLAB, OR ABOVE SUSPENDED CEILING SPACE.
9. ALL WIRE AND CONDUIT SIZES ARE BASED ON 75°C THHN WIRE UNLESS OTHERWISE NOTED.
10. CONDUITS MAY BE RUN EXPOSED IN MECHANICAL AREAS. CONDUITS SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS AND SHALL BE RUN IN GROUPS.
11. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING SYSTEM.
12. WHERE FIRST OUTLET ON BRANCH CIRCUIT IS GREATER THAN FIFTY (50) FEET FROM THE PANELBOARD, USE #10 AWG MINIMUM TO THE FIRST OUTLET.
13. ALL MOUNTING HEIGHTS ARE GIVEN TO THE CENTERLINE OF THE DEVICE UNLESS OTHERWISE NOTED. RECEPTACLES, DATA AND TELEPHONE OUTLET TO BE MOUNTED 18" AFF UNLESS OTHERWISE NOTED. LIGHT SWITCHES TO BE MOUNTED 48" AFF UNLESS OTHERWISE NOTED.
14. THE LOCATION OF ALL WALL MOUNTED DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE FIELD VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
15. ALL FUSES, DISCONNECT SWITCHES, AND BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR.
16. ALL DISCONNECT SWITCHES ARE TO BE FUSIBLE TYPE, FUSE IN ACCORDANCE WITH THE NAMEPLATE DATA WITH DUAL ELEMENT TYPE FUSES BY BUSSMAN OR EQUAL.
17. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, UNLESS NOTED OTHERWISE BY OTHER DISCIPLINES. COORDINATE CLOSELY.
18. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SO THAT ALL CODE-REQUIRED AND MANUFACTURER-RECOMMENDED SERVICING CLEARANCES ARE MAINTAINED. INSTALLATIONS SHALL FULLY COMPLY WITH NEC 110-16(A) AND NEC 384-4 FOR CLEARANCE REQUIREMENTS.
19. COORDINATE LOCATIONS OF ALL LIGHT FIXTURES WITH THE REFLECTED CEILING PLANS. LIGHT FIXTURES INSTALLED IN MECHANICAL AREAS SHALL AVOID MECHANICAL PIPING, EQUIPMENT, DUCTWORK, ETC.
20. GROUND SHALL BE PER N.E.C. PROVIDE SEPARATE GROUNDING CONDUCTOR FOR ALL CIRCUITS. PROVIDE DRAIN AND COLD WATER GROUND FOR MAIN SERVICE.
21. GROUND TELEPHONE EQUIPMENT PER NEC.
22. THE ELECTRICAL CONTRACTOR SHALL PATCH ANY WALL, CEILING, OR FLOOR OPENING AND PENETRATIONS RESULTING FROM DEMOLITION OR NEW WORK IN EXISTING AREAS.
23. ALL WIRING SHALL BE CONCEALED IN METALLIC CONDUIT.
24. COMBINE HOMERUNS IN CONDUIT AS DESIRED (3 ON 3-PHASE, 2 ON SINGLE PHASE). DO NOT OVERLOAD NEUTRALS.
25. ALL CIRCUITS SHALL BE TESTED WITH 500 VOLT TESTER PRIOR TO ENERGIZING.
26. ALL WALL OUTLET BOXES SHALL BE STEEL CITY OR RACO
27. RECEPTACLES, SWITCHES, COVERPLATES, ETC. SHALL BE HUBBELL, LEVITON, OR LEGRAND EXCEPT AS SPECIFIED. COLOR SPECIFIED BY ARCHITECT, VERIFY COLOR PRIOR TO PURCHASE.
28. PROVIDE PULL WIRE IN ALL EMPTY CONDUIT.
29. CONDUIT SHALL BE LABELED EVERY TEN FEET.
30. ALL RECEPTACLE AND SWITCH PLATES SHALL BE LEGIBLY MARKED WITH LABEL MARKER TO CLEARLY INDICATE PANELBOARD ORIGIN AND CIRCUIT NUMBER. LABEL SHALL BE ON THE BACKSIDE OF PLATES.
31. PROVIDE PHENOLIC LABELS ON ALL MAJOR EQUIPMENT INCLUDING SWITCHBOARDS, MOTOR CONTROL CENTERS, PANELBOARDS, INDIVIDUAL STARTERS, SAFETY SWITCHES, AND TRANSFORMERS. PROVIDE ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON BLACK BACKGROUND.
32. ALL CIRCUIT BREAKERS IN PANEL SHALL BE SERIES RATED WITH MAIN BREAKER OR FULLY RATED FOR THE SYSTEM.
33. CONTRACTOR SHALL PROVIDE ENGINEER A MINIMUM OF 3 COPIES OF SHOP DRAWINGS FOR LIGHTS, SWITCHGEAR, PANELS, ETC.
34. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE W/ ALL OTHER TRADES REGARDING VOLTAGES, LOADS, CIRCUIT BREAKERS, ETC. PRIOR TO BEGINNING ANY WORK.
35. AS USED ON THESE DOCUMENTS, THE WORD "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL THE ITEM OR EQUIPMENT AND MAKE THE FINAL CONNECTION AS REQUIRED.
36. PANELS SHALL BE BY SQUARE "D", G.E. AND SIEMENS. PANELS SHALL BE SQUARE "D" TYPE NQ00 OR "I-LINE" AS REQUIRED.
37. FOR NEW OR MODIFIED SERVICES, PRIOR TO ENERGIZATION AND AFTER UTILITY FAULT CURRENT CONFIRMATION AT THE DELIVERY POINT, PROVIDE PLAQUE AT SERVICE EQUIPMENT STATING MAXIMUM AVAILABLE FAULT CURRENT AND DATE OF CALCULATION PER NEC 110.24.
38. OPERABLE DEVICES SHALL BE ACCESSIBLE IN COMPLIANCE WITH ANSI A117.1, SECTION 309, OPERABLE PARTS. WHERE GFI RECEPTACLES ARE NOT ACCESSIBLE, PROVIDE GFI BREAKER.
39. RECESSED LIGHTING FIXTURES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE IC RATED AND LABELED AS MEETING ASTM E283. OR SHALL BE TENTED TO REMOVE THEM FROM THE THERMAL ENVELOPE
40. BRANCH CIRCUITS SERVING EXIT & EMERGENCY FIXTURES SHALL BE CLEARLY LABELED ON THE PANELBOARD DIRECTORY PER NEC 110.22(A), 408.4 & 700.12(F).
41. UPON PROJECT COMPLETION, THE EC SHALL PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL NEW AND ALTERED PANELBOARDS WITH CIRCUIT DESIGNATIONS COMPLYING WITH THE REQUIREMENTS OF NEC 408.4(A).
42. ALL EXIT AND EMERGENCY LIGHTING SHALL BE FED FROM LOCAL BRANCH CIRCUIT AND HAVE A MINIMUM OF 90 MINUTE BATTERY BACKUP PER NEC 700.12(F)(2).



U.L. #WL1001

- 1. Wall Assembly - The 1.2,3, or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs - Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plateds and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
B. Wallboard, Gypsum* - Nom 1/2 or 5/8 in. thick, 4ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 13-1/2 in.
2. Pipe or Conduit - Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe, nom 12 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) Class 50 (or heavier) ductile iron pressure pipe, nom 6 in. diam (or smaller) steel conduit, nom 4 in. diam (or smaller) steel electrical metallic tubing or Type L or (or heavier) copper tubing or nom 1 in. (or smaller) flexible steel conduit. When copper pipe or flexible steel conduit is used, max F Rating of firestop system (Item 3) is 2h. Steel pipes or conduits larger than nom 4 in. diam may only be used in wall constructed using steel channel studs. A max of one pipe or conduit is permitted in the firestop system. Pipe or conduit to be installed near center of stud cavity width and to be rigidly supported on both sides of wall assembly.
3. Fill, Void or Cavity Material* - Caulk - Caulk fill material installed to completely fill annular space between pipe or conduit and gypsum wallboard and with a min 1/4 in. diam bead of caulk applied to perimeter of pipe or conduit at its egress from the wall. Caulk installed symmetrically on both sides of wall assembly. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

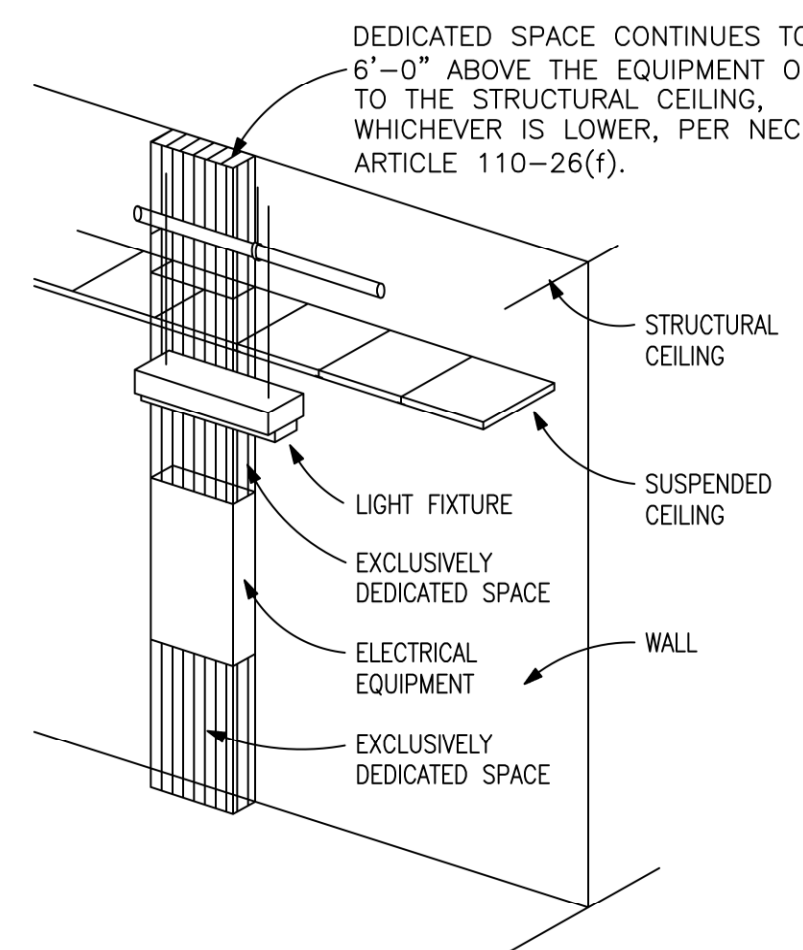
Table with columns: Max Pipe or Conduit Diam, In; Annular Space, In; F Rating, Hr; T Rating, Hr. Includes rows for various pipe sizes and ratings.

* When copper pipe is used, T Rating is 0 h.
0 to 1-1/2 in. annular space applies only when Type CP-25 WB+ caulk is used.

Minnesota Mining & Mfg. Co. - Types CP-25 S/L, CP-25 N/S, CP-25 WB, CP-25 WB+
(NOTE: L Rating apply only when Type CP-25 WB+ caulk is used).
*Bearing the UL Classification Marking

4 RATED WALL PENETRATION DETAIL
EI SCALE: NTS

ABBREVIATIONS section listing A (AMPS), AIC (AMPS INTERRUPTING CURRENT), ATS (AUTOMATIC TRANSFER SWITCH), AF (AMP FUSE), AFF (ABOVE FINISHED FLOOR), AFG (ABOVE FINISHED GRADE), AHJ (AUTHORITY HAVING JURISDICTION), BRK (CIRCUIT BREAKER), BLDG (BUILDING), C (CONDUIT), CKT (CIRCUIT), CLG (CEILING), DISC (DISCONNECT SWITCH), EC (ELECTRICAL CONTRACTOR), EF (EXHAUST FAN), EM (EMERGENCY), EMT (ELECTRICAL METALLIC TUBING), EX (EXISTING), FA (FIRE ALARM), GC (GENERAL CONTRACTOR), GFCI (GROUND FAULT CURRENT INTERRUPTER), G (GROUND), HP (HORSEPOWER), IMC (INTERMEDIATE METAL CONDUIT), JB (JUNCTION BOX), KW (KILOWATT), KVA (KILOWOLT-AMPERES), LTG (LIGHTING), MC (METAL CLAD CABLE), MCB (MAIN CIRCUIT BREAKER), MLO (MAIN LUGS ONLY), NCSCBC (NORTH CAROLINA STATE BUILDING CODE), NEC (NATIONAL ELECTRICAL CODE), NEMANATIONAL (NEMANATIONAL ELECTRICAL MANUFACTURER'S ASSOC.), NIC (NOT IN CONTRACT), NTS (NOT TO SCALE), PNL (PANELBOARD), SW (SHOW WINDOW RECEP, 18" MAX ABOVE WINDOW), UL (UNDERWRITER'S LABORATORIES), ULSEUL (SERVICE ENTRANCE UON UNLESS OTHERWISE NOTED), V (VOLTS), W/ (WITH), W/O (WITHOUT), WP (WEATHERPROOF).



NOTE: THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER THE ELECTRICAL EQUIPMENT FOR THE CABLES, RACEWAYS, ETC... TO AND FROM THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110.26(F) OF THE NATIONAL ELECTRICAL CODE.

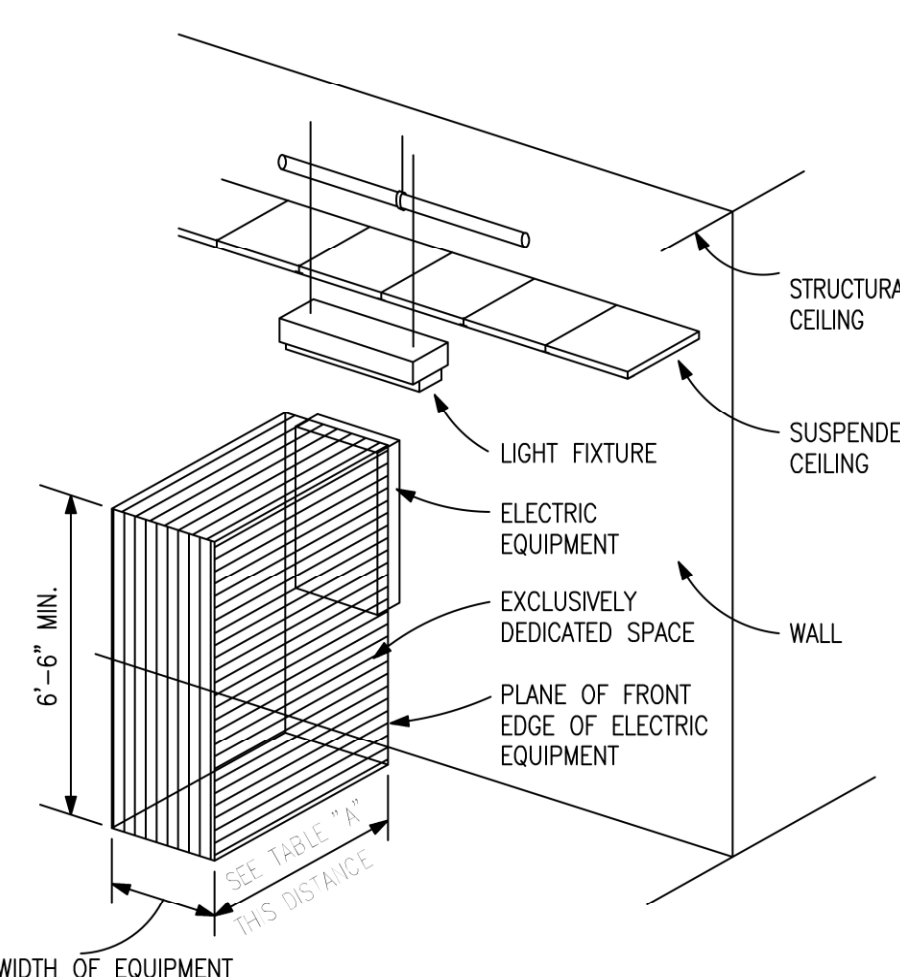
1 DEDICATED SPACE FOR ELECTRICAL EQUIPMENT
EI SCALE: NTS

TABLE "A" WORKING CLEARANCES. Table with columns: VOLTAGE TO GROUND, NOMINAL; CONDITION; MINIMUM CLEAR DISTANCE (FEET). Rows for 0-150V, 151-600V under conditions 1, 2, 3.

WHERE THE "CONDITIONS" ARE AS FOLLOWS:

- 1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

NOTE: THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110.16 OF THE NATIONAL ELECTRICAL CODE.



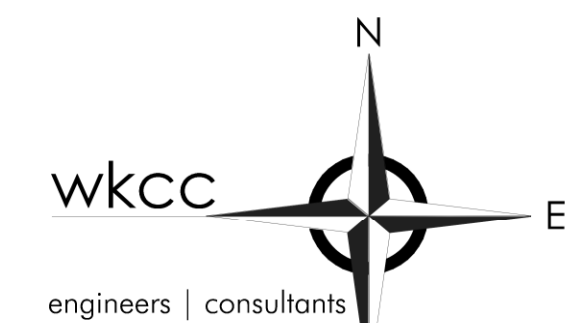
2 WORKING CLEARANCE FOR ELECTRICAL EQUIPMENT
EI SCALE: NTS

ELECTRICAL SYSTEM AND EQUIPMENT (SECTION C405)
METHOD OF COMPLIANCE SECTION C405.1
LIGHTING SCHEDULE
LAMP TYPE REQUIRED IN FIXTURE, NUMBER OF LAMPS IN FIXTURE, BALLAST TYPE USED IN FIXTURE, NUMBER OF BALLASTS IN FIXTURE, TOTAL WATTAGE PER FIXTURE, TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED: N/A-FUTURE, TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED: 0.8kW VS 1.7kW
SEE LIGHTING FIXTURE SCHEDULE
ADDITIONAL EFFICIENCY PACKAGE OPTIONS
DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, ENERGY CODE 2018 EDITION
NAME: ANGUS M. CLARK PE
TITLE: ELECTRICAL ENGINEER

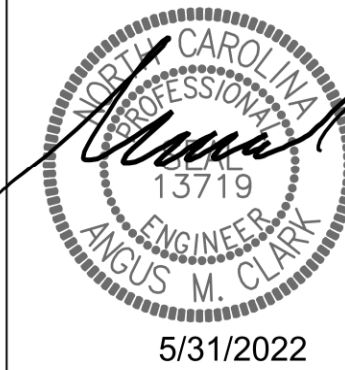
ELECTRICAL LEGEND (ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT)
HOMERUN TO POWER SOURCE, 2#12, #12G 1/2" UON
BRANCH CIRCUIT WIRING CONCEALED IN WALLS AND CEILINGS
BRANCH CIRCUIT WIRING CONCEALED UNDER FLOOR OR UNDERGROUND
RECESSED LIGHT FIXTURE
DOWNLIGHT FIXTURE
WALL MOUNTED LIGHT FIXTURE
SURFACE MOUNTED LIGHT FIXTURE
EXIT SIGN, DIRECTIONAL ARROWS AS INDICATED.
EMERGENCY LIGHT
EXIT/EMERGENCY LIGHT COMBINATION
DUPLEX RECEPTACLE
QUADRUPLEX RECEPTACLE
SIMPLEX RECEPTACLE, AMP RATING AS NOTED
GFCI RECEPTACLE
WEATHERPROOF WHILE N USE GFCI RECEPTACLE
TAMPERPROOF RECEPTACLE
SHOW WINDOW RECEPTACLE MOUNTED 18" MAX ABOVE WINDOW
FLUSH MOUNTED FLOOR RECEPTACLE
FLUSH MOUNTED RECEPTACLE AND DATA
JUNCTION BOX FOR POWER CONNECTION
EQUIPMENT POWER CONNECTION
FUSED DISCONNECT SWITCH
NON-FUSED DISCONNECT SWITCH
PANELBOARD
WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH (LINE VOLTAGE)
1" TELEPHONE/DATA STUB-UP
PHOTOCELL, MOUNT WITH SENSOR FACING NORTH, EXACT LOCATION TO BE DETERMINED
TORK OR EQUAL, DIGITAL, ASTRONOMICAL, 7-DAY PROGRAMMABLE, 20A, 120V, PROVIDE 20A/12P LIGHTING CONTACTOR IN ADJACENT TO TIME CLOCK AND EXTERIOR PHOTOCELL FACING NORTH. ALL EQUIPMENT SHALL BE RATED NEMA 3R OR LOCATED IN A NEMA 3R ENCLOSURE.



ANGUS CLARK ENGINEERING PC
543 KEISLER DRIVE SUITE 101
CARY NORTH CAROLINA 27518
NCBEES C-2726
919 859.2674
919 573.0323 FAX

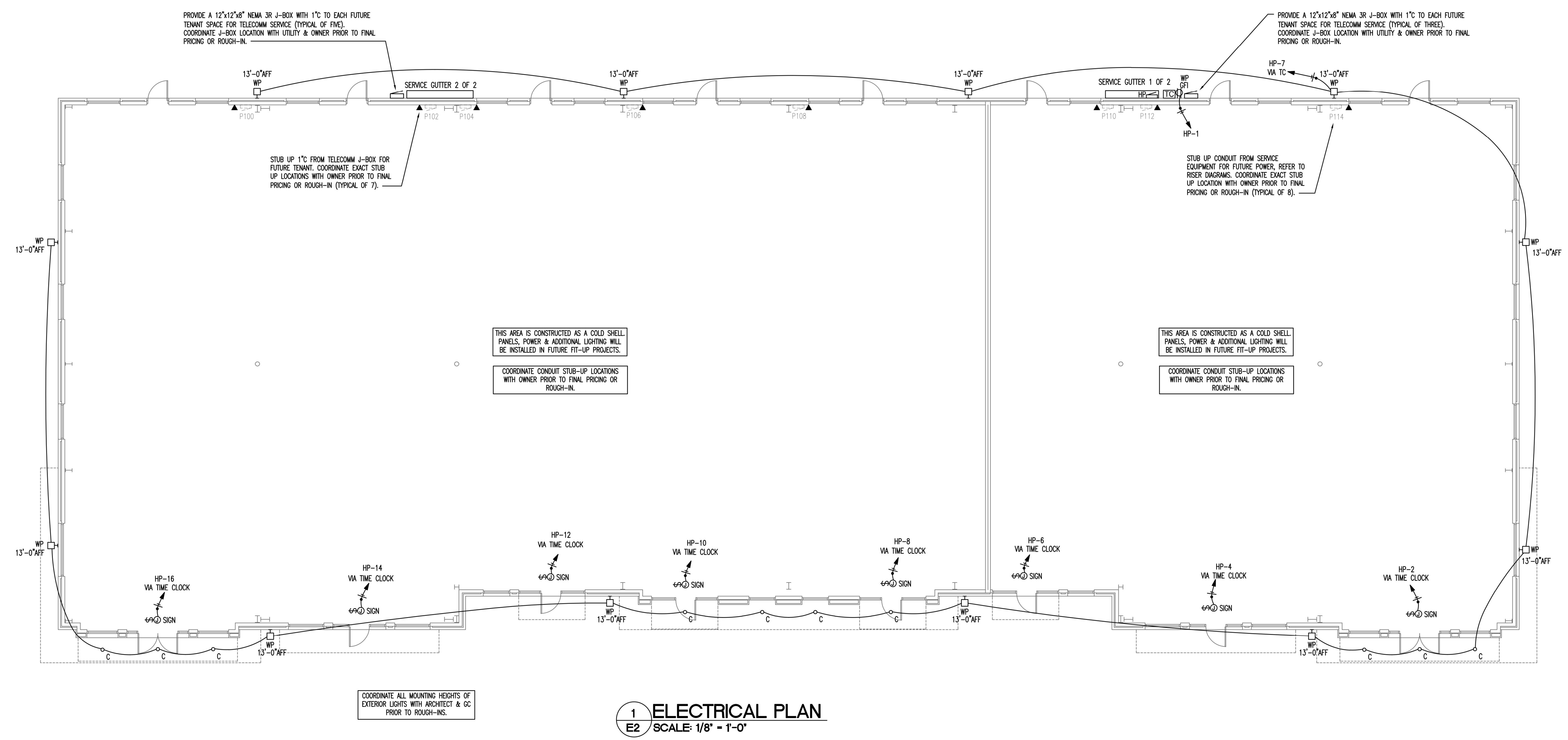


WEST KEY CONSULTING CORPORATION
4008 BARRETT DR SUITE 204
RALEIGH NC 27609
919.881.8020
www.westkeyconsulting.com
C-1474



CAMERON COMMERCIAL SHELL BUILDING
NC HWY 24-87
CAMERON, NC

REVISIONS section with a grid for revisions and an ELECTRICAL COVER SHEET stamp with date 5/31/21 and drawing ID EI.



1 ELECTRICAL PLAN
E2 SCALE: 1/8" = 1'-0"

LUMINAIRE SCHEDULE									
CALLOUT	SYMBOL	DESCRIPTION	MODEL	LAMP	INPUT WATTS	VOLTS	MOUNTING	NOTE 1	
C	○	6" ROUND LED DOWNLIGHT	HEW 6DR-L20-8-35-DIM-UNV-0-W-CS-MWT	LED	19	120V 1P 2W	RECESSED	IN FLAT EIFS SOFFIT (SEE ARCHITECTURAL WALL SECTIONS)	
WP	⊞	WALL MOUNTED LIGHT	LITHONIA WSQLED-P2-40K-SR3-MVOLT-DNAXD *NATURAL ALUMINUM	LED	50	120V 1P 2W	WALL	CENTER AT 13'-0" AFF	

GENERAL NOTES: ALL FINAL FINISHES SHALL BE REVIEWED/APPROVED BY ARCHITECT PRIOR TO RELEASE.



5/31/2022

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ARCHITECTURE

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212 POWELL DR. SUITE 100 RALEIGH, NC 27606
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CAMERON COMMERCIAL
SHELL BUILDING
NC HWY 24-87
CAMERON, NC

REVISIONS

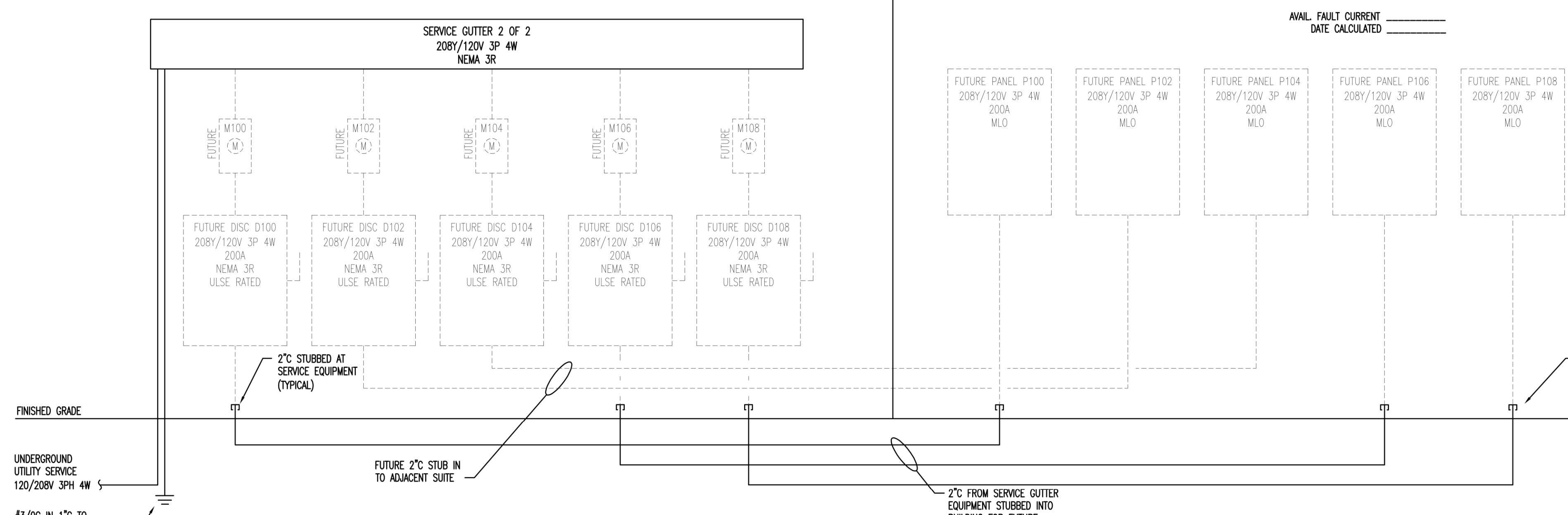
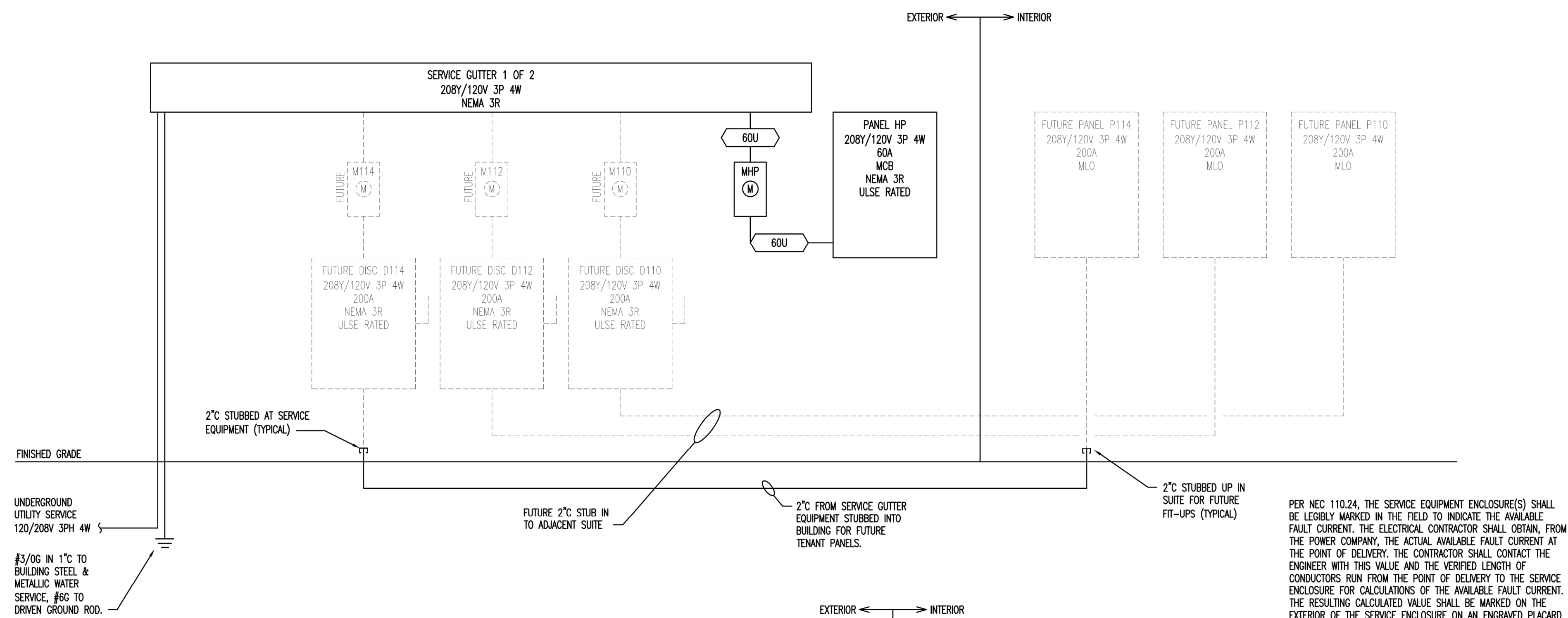
RISER & SCHEDULES

5/31/21

E3

2007-P

ROOM EXTERIOR		VOLTS 208Y/120V 3P 4W		AIC 10,000							
MOUNTING SURFACE		BUS AMPS 60		MAIN BKR 60							
FED FROM MHP		NEUTRAL 100%		LUGS STANDARD							
NOTE ULSE RATED, NEMA 3R											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	RECEPTACLE	0.18			2	20/1	SIGN	1.20		
3	-/1	SPACE		0.00		4	20/1	SIGN		1.20	
5	-/1	SPACE			0.00	6	20/1	SIGN			1.20
7	20/1	LIGHTING	0.79			8	20/1	SIGN	1.20		
9	-/1	SPACE		0.00		10	20/1	SIGN		1.20	
11	-/1	SPACE			0.00	12	20/1	SIGN			1.20
13	-/1	SPACE	0.00			14	20/1	SIGN	1.20		
15	-/1	SPACE			0.00	16	20/1	SIGN		1.20	
17	-/1	SPACE			0.00	18	-/1	SPACE			0.00
TOTAL CONNECTED KVA BY PHASE									4.57	3.60	2.40
			CONN KVA			CALC KVA					
LIGHTING			0.79	0.99	(125%)	RECEPTACLES			0.18	0.18	(50%>10)
						CONTINUOUS			9.80	12.00	(125%)
						TOTAL LOAD			13.17		
						BALANCED 3-PHASE LOAD			36.55 A		



1 RISER DIAGRAMS
E3 SCALE: NTS

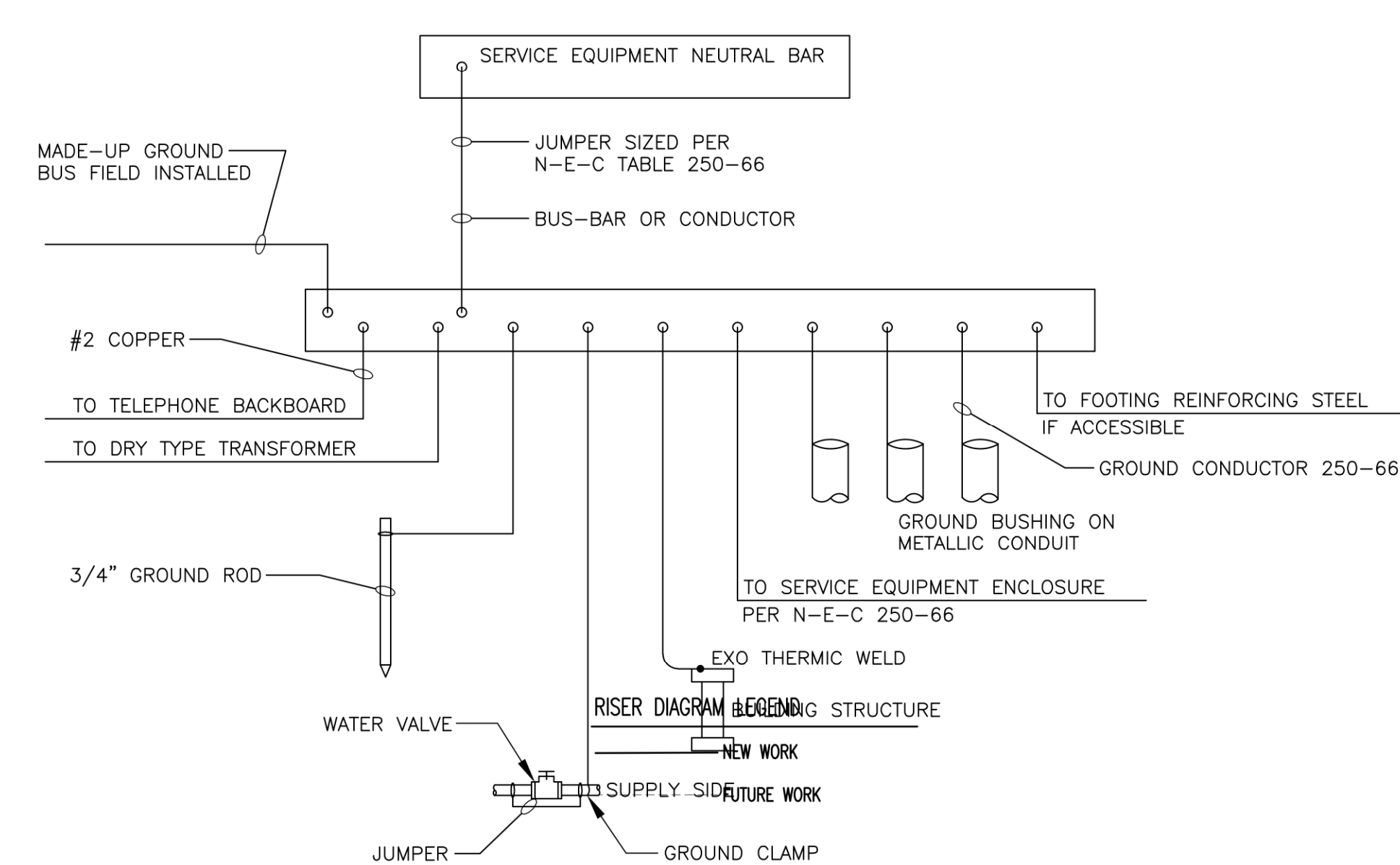
ID	FEEDER AMPS	CONDUIT AND FEEDER
60U	60	1", 3#4, #4N

SIZING METHOD: COPPER, 60°C #12 THROUGH #1, 75°C 1/0 AND ABOVE

NOTE: NEW ELEC. SERVICE, METER BASE TYPE AND LOCATION OF ALL EQUIPMENT SHALL BE CLOSELY COORDINATED BY THE EC WITH THE UTILITY COMPANY. CHANGES IN EXACT EQUIPMENT PLACEMENT, MOUNTING HEIGHTS AND CONNECTION MAY BE REQUIRED. EC SHALL FOLLOW UTILITY GUIDELINES, THE NEC AND ALL LOCAL REQUIREMENTS FOR SERVICE EQUIPMENT INSTALLATION. EC SHALL CONTACT UTILITY PRIOR TO BEGINNING ANY WORK AND SCHEDULE AN ON-SITE COORDINATION MEETING TO REVIEW UTILITY REQUIREMENTS AND THE PLANNED INSTALLATION. ADDITIONAL CONDUIT, WIRING, FEES OR WORK REQUIRED BY THE UTILITY NOT SHOWN ON THIS RISER SHALL BE COORDINATED BY THE EC AT THE BEGINNING OF THE PROJECT AND INCLUDED IN PRICING BY THE EC TO THE OWNER.

PER NEC 110.24, THE SERVICE EQUIPMENT ENCLOSURE(S) SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE THE AVAILABLE FAULT CURRENT. THE ELECTRICAL CONTRACTOR SHALL OBTAIN, FROM THE POWER COMPANY, THE ACTUAL AVAILABLE FAULT CURRENT AT THE POINT OF DELIVERY. THE CONTRACTOR SHALL CONTACT THE ENGINEER WITH THIS VALUE AND THE VERIFIED LENGTH OF CONDUCTORS RUN FROM THE POINT OF DELIVERY TO THE SERVICE ENCLOSURE FOR CALCULATIONS OF THE AVAILABLE FAULT CURRENT. THE RESULTING CALCULATED VALUE SHALL BE MARKED ON THE EXTERIOR OF THE SERVICE ENCLOSURE ON AN ENGRAVED PLACARD THAT SHALL READ AS FOLLOWS:

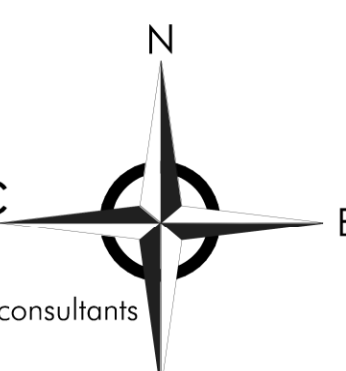
AVAIL. FAULT CURRENT
DATE CALCULATED _____



2 SERVICE EQUIPMENT GROUNDING DETAIL
E3 SCALE: NTS

ANGUS CLARK
ENGINEERING PC
543 KEISLER DRIVE
SUITE 101
CARY NORTH CAROLINA 27518
NCBEES C-2726
919 859.2874
919 573.0923 FAX

wkcc
engineers | consultants
WEST KEY CONSULTING
CORPORATION
4008 BARRETT DR SUITE 204
RALEIGH NC
27609
919.881.8020
www.westkeyconsulting.com
C-1474



5/31/21

E3

2007-P

GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE ENGINEER OF ANY DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS.
2. DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE.
3. DESIGN LOADS:
 - Importance Factor: Wind (Iw) 1.0
Snow (Is) 1.0
Seismic (Ie) 1.0
 - Live Loads: Roof 20 psf
Second Floor N/A
First Floor 125 psf
 - Ground Snow Load: 10 psf
 - Wind Load: Basic Wind Speed 116 mph (ASCE-7-10)
Exposure Category B
Wind Base Shears (for MWFRS) $V_x = 24.0K$ $V_y = 66.0K$

SEISMIC DESIGN CATEGORY B
 Provide the following Seismic Design Parameters:
 Occupancy Category (Table 1604.5) II
 Spectral Response Acceleration S_s 20.6% g S_1 9.4% g
 Site Classification D (Field Test)
 Basic structural system (check one)
 Bearing Wall _____ Dual w/ Special Moment Frame
 _____ X _____ Building Frame _____ Dual w/ Intermediate R/C or Special Steel Moment Frame _____ Inverted Pendulum
 Seismic base shear $V_x = 33.3K$ $V_y = 33.3K$
 Analysis Procedure _____ Simplified _____ X _____ Equivalent Lateral Force _____ Modal
 Architectural, Mechanical, Components anchored? No

LATERAL DESIGN CONTROL: Earthquake _____ Wind _____ X _____

SOIL BEARING CAPABILITIES:
 Field Test (provide copy of test report) _____ psf
 Presumptive Bearing Capacity _____ 2000 _____ psf
 File size, type and capacity _____

4. ALL SAFETY REGULATIONS, METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING, BRACING AND FORMWORK, ETC. AS REQUIRED.
5. THE GENERAL CONTRACTOR PRIOR TO CONSTRUCTION SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, THE SIZE AND LOCATION OF ALL SLEEVES, PADS, DEPRESSIONS, OPENINGS, ETC.
6. DIMENSIONS ARE NOT TO BE DERIVED BY SCALING THESE DRAWINGS. IF THERE IS ANY QUESTION ABOUT DETAILS OR DIMENSIONS, CONTACT THE ARCHITECT AND ENGINEER FOR CLARIFICATION.
7. IF ANY BIDDER IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE DOCUMENTS, THEY SHALL REQUEST AN INTERPRETATION FROM THE ARCHITECT IN WRITING.

SUBMITTALS

1. THE CONTRACT DOCUMENTS ARE THE STRUCTURAL ENGINEER'S INSTRUMENTS OF SERVICE TO CONVEY DESIGN INTENT. THEY ARE NOT TO BE CONSIDERED FABRICATION OR LAYOUT DRAWINGS.
2. THE FOLLOWING ARE REQUIRED SUBMITTALS:
 - A. CONCRETE MIX DESIGNS
 - B. REINFORCING BAR DRAWINGS
 - C. STRUCTURAL STEEL
 - D. METAL DECK
 - E. STEEL JOISTS
 - F. ROOF TRUSSES
3. FOR REVIEW OF EACH SUBMITTAL, THE SCHEDULE SHALL ALLOW FOR TEN BUSINESS DAYS FOLLOWING ENGINEER'S RECEIPT.
4. SUBMITTALS TO BE REVIEWED BY THE ENGINEER SHALL BE SUBMITTED TO THE ARCHITECT. THE STRUCTURAL ENGINEER WILL NOT ACCEPT SUBMITTALS DIRECTLY FROM CONTRACTORS WITHOUT THE ENGINEER'S PRIOR APPROVAL.
5. UPON COMPLETION OF THE ENGINEER'S REVIEW, SUBMITTALS WILL BE RETURNED TO THE ARCHITECT FOR THEIR REVIEW.
6. ANY DEVIATION IN DESIGN, DETAILS, DIMENSIONS, ETC. FROM THE CONSTRUCTION DOCUMENTS SHALL BE CLOUDED ON THE SUBMITTAL AND VERIFICATION OF THE CHANGE SHALL BE REQUESTED. *VERIFY MARKS NOT ADDRESSED SHALL NOT BE ASSUMED CORRECT AND SHALL BE RESUBMITTED TO THE ENGINEER OR CLARIFIED BY A REQUEST FOR INFORMATION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY DEVIATIONS UNLESS ENGINEER REVIEWS AND ACKNOWLEDGES THE CHANGES IN WRITING.
7. THE ENGINEER WILL NOT REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.

FOUNDATIONS

1. ALLOWABLE SOIL BEARING IS STATED ON THE FOUNDATION PLANS.
2. BACKFILLING SHALL BE PERFORMED IN EQUAL LIFTS AROUND THE BUILDING PERIMETER TO BALANCE LATERAL EARTH PRESSURE ON THE BUILDING. WALK BEHIND COMPACTION EQUIPMENT IS REQUIRED WITHIN A DISTANCE OF TWO TIMES THE WALL HEIGHT.
3. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL IN WRITING. THE CONTRACTOR SHALL LOCATE ANY EXISTING UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION.

CONCRETE

1. ALL CONCRETE WORK TO BE DONE IN ACCORDANCE WITH THE CODE REFERENCED EDITION OF ACI-318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
2. CONCRETE MIX DESIGN REQUIREMENTS AND COMPRESSIVE STRENGTH AT 28 DAYS:

DESCRIPTION	28 DAY STRENGTH (PSI)	WEIGHT PER CUBIC FOOT (PCF)	SLUMP AT POINT OF PLACEMENT	AGGREGATE	% AIR
FOOTINGS	3000	145	4" ± 1"	ASTM C33	3
SLAB ON GRADE	3000	145	4" ± 1"	ASTM C33	3
COMPOSITE FLOOR TOPPING (LIGHT WEIGHT)	3500	110	5" ± 1"	ASTM C330	3
BASEMENT WALLS	5000	145	5" ± 1"	ASTM C33	3

- FLY ASH SHALL BE LIMITED TO 20% OF THE TOTAL CEMENTITIOUS MATERIAL WEIGHT. WATER REDUCING ADMIXTURES MAY BE USED TO ACHIEVE SLUMP REQUIREMENTS.
3. SEE ARCHITECTURAL DOCUMENTS FOR JOINT SIZES AND FILLER MATERIALS.
 4. LOCATION OF ALL CONSTRUCTION JOINTS, EXCLUDING SLABS ON GRADE, SHALL BE COORDINATED WITH STRUCTURAL ENGINEER.
 5. ALL EXPOSED CONCRETE CORNERS SHALL HAVE A $\frac{3}{4}$ " CHAMFER, UNLESS NOTED OTHERWISE BY THE ARCHITECT.
 6. SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER SHOWING PROPOSED LOCATIONS OF ANY MATERIAL SUCH AS BUT NOT LIMITED TO CONDUITS, EMBEDMENTS, OR FIXTURES TO BE PLACED INSIDE ANY STRUCTURAL CONCRETE MEMBER SUCH AS BEAMS, WALLS, SLABS, COLUMNS OR FOOTINGS.
 7. UNLESS SPECIFIED OTHERWISE IN THE SPECIFICATION, TESTING OF CONCRETE SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF ACI 318 SECTION 5.6 "EVALUATION AND ACCEPTANCE OF CONCRETE."
 8. THE FOLLOWING PROCEDURES SHALL MEET THE REQUIREMENTS OF THE REFERENCED CODE SECTIONS

PROCEDURE	REFERENCE SECTION
PREPARATION	ACI 304 - "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"
CONVEYING	ACI 318 SECTION 5.9 - "CONVEYING"
DEPOSITING	ACI 318 SECTION 5.10 - "DEPOSITING"
CONSOLIDATION	ACI 309 - "GUIDE FOR CONSOLIDATION OF CONCRETE"
CURING	ACI 308 - "STANDARD PRACTICE FOR CURING CONCRETE"
HOT WEATHER CONCRETING	ACI 305 - "HOT WEATHER CONCRETING"
COLD WEATHER CONCRETING	ACI 306 - "COLD WEATHER CONCRETING"

REINFORCING STEEL

1. REINFORCING STEEL SHALL BE NEW BILLET STEEL, DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
2. WELDED WIRE FABRIC SHALL BE SHEETS OF NEW BILLET STEEL COLD DRAWN, CONFORMING TO ASTM SPECIFICATION A62, GRADE 60.
3. BAR SUPPORTS, DESIGN, DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318 AND "THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES." ACI 315.
4. SPLICES FOR CONTINUOUS BARS SHALL BE CLASS B, UNLESS NOTED OTHERWISE, WELDED WIRE FABRIC SHALL BE LAPPED 12" MINIMUM.
5. MINIMUM CONCRETE COVERAGE SHALL BE AS FOLLOWS. IF STIRRUPS, TIES OR SPIRALS ARE USED, COVERAGE SHALL BE THE OUTERMOST FACE OF THE ELEMENTS.
 - A. FOOTINGS, CAISSONS, AND OTHER MEMBERS WHERE CONCRETE IS DEPOSITED AGAINST SOIL (EXCEPT SLABS ON GRADE.) 3"
 - B. CONCRETE EXPOSED TO WEATHER OR SOIL
 - #6 BAR AND LARGER: 2"
 - #5 BAR AND SMALLER: 1 1/2"
 - C. CONCRETE NOT EXPOSED TO WEATHER OR SOIL (SLABS, WALLS, JOISTS)
 - #14 BAR AND LARGER: 1 1/2"
 - #11 BAR AND SMALLER: 1"
6. WALL FOOTING REINFORCEMENT SHALL BE CONTINUOUS THROUGH COLUMN FOOTING.
7. PROVIDE DOWELS IN WALL FOOTING TO MATCH WALL VERTICALS UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE CLASS B SPLICE. USE STANDARD ACI 90° HOOK WITH 3' CLEAR TO BOTTOM OF FOOTING UNLESS NOTED OTHERWISE.

STRUCTURAL MASONRY

1. ALL MASONRY WORK TO BE DONE IN ACCORDANCE WITH THE CODE-REFERENCED EDITION OF ACI-530 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", AND ACI-530.1 "SPECIFICATION FOR MASONRY STRUCTURES."
2. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND HAVE A MINIMUM NET COMPRESSIVE STRENGTH 1900 PSI. THE MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF MASONRY (F_m) SHALL BE 1500 PSI, AS DETERMINED BY THE UNIT STRENGTH METHOD (REFERENCE ACI 530.1 SECTION 1.4B). PRISM TESTING IS REQUIRED IF THE ABOVE REQUIREMENTS ARE NOT MET.
3. CLAY MASONRY UNITS SHALL HAVE A MINIMUM UNIT COMPRESSIVE STRENGTH OF 8000 PSI. REFER TO ARCHITECTURAL DOCUMENTS FOR ASTM DESIGNATIONS.
4. MORTAR SHALL BE PORTLAND CEMENT-LIME AND CONFORM TO ASTM C270. WHEN CMU IS IN CONTACT WITH SOIL USE TYPE M MORTAR.

AVERAGE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS		
MORTAR TYPE	CLAY MASONRY	CONCRETE UNIT MASONRY
M	N/A	2500 PSI
S	N/A	1800 PSI
N	750 PSI	N/A

5. BLOCK FILL FOR REINFORCED MASONRY SHALL BE FINE GROUT IN CONFORMANCE WITH ASTM C476 MINIMUM COMPRESSIVE STRENGTH METHOD. GROUT SHALL BE 3000 PSI AT 28 DAYS AS SAMPLED AND TESTED IN ACCORDANCE WITH ASTM C1019. GROUT SLUMP SHALL BE 8 TO 11 INCHES.
6. REINFORCING: ASTM A615 - GRADE 60. SEE CHART BELOW FOR MINIMUM LAP SPLICE LENGTH AND EMBEDMENT OF REINFORCING BARS.

MASONRY REINFORCING LAP SPLICES AND EMBED LENGTH		
BAR SIZE	LAP SPLICE LENGTH (IN)	EMBEDMENT
#4	24	18
#5	30	24
#6	36	28
#7	42	32
#8	48	36
#9	54	42

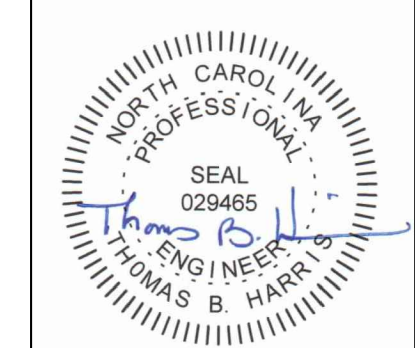
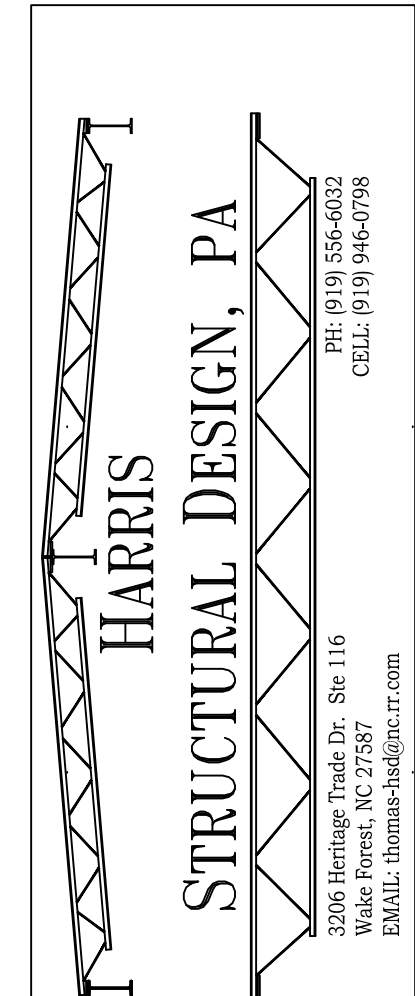
7. ALL MASONRY SHALL BE PLACED IN RUNNING BOND UNLESS SPECIFICALLY NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
8. MASONRY PREPARATION, CONSTRUCTION AND PROTECTION IN HOT OR COLD WEATHER (GREATER THAN 90°F OR LESS THAN 40°F) SHALL BE IN CONFORMANCE WITH ACI 530.1 SECTION 1.8.
9. EMBEDDED CONDUITS, PIPES AND SLEEVES SHALL BE COMPATIBLE WITH MASONRY AND SHALL NOT BE LOCATED IN GROUTED CELLS. PIPES CONTAINING WATER SUBJECT TO FREEZING, MATERIALS IN EXCESS OF 150°F OR PIPES UNDER PRESSURE IN EXCESS OF 55 PSI SHALL NOT BE EMBEDDED IN MASONRY. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL EMBEDDED ITEMS WITH THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

COLD-FORMED STEEL STUD FRAMING

1. ALL STRUCTURAL MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL CORRESPONDING TO THE REQUIREMENTS OF ASTM-A653, WELDS SHALL BE TOUCHED UP WITH A ZINC RICH PROTECTIVE PAINT FOR CORROSION RESISTANCE. STRUCTURAL STEEL STUDS SHALL HAVE A MINIMUM THICKNESS OF 33 MILS AND SHALL HAVE A MINIMUM YIELD STRENGTH 33 KSI

COLD-FORMED STEEL STRUCTURAL MEMBERS	
THICKNESS (MILS)	GAUGE
33	20
43	18
54	16
65	14
97	12
118	10

2. PROVIDE VERTICAL DEFLECTION CONNECTION WITH MECHANICAL ATTACHMENT TO THE WEB OF ALL STUDS WHICH PASS BY THE STRUCTURE (FLOOR AND ROOF) OR ATTACH TO THE BOTTOM OF THE STRUCTURE.
3. UNLESS SUPERSEDED BY FINISH OR GLAZING SYSTEM MANUFACTURER'S MORE STRINGENT REQUIREMENTS (GENERAL CONTRACTOR TO COORDINATE), STUDS HAVE BEEN DESIGNED TO THE FOLLOWING MINIMUM REQUIREMENTS:
 - A. BRICK VENEER U600
 - B. EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) U240
 - C. STUCCO U240
4. 'C' SHAPED STUDS AND JOISTS SHALL HAVE A MINIMUM FLANGE WIDTH OF 1 1/2" WITH A MINIMUM RETURN LIP OF 3/8". TRACKS SHALL HAVE A MINIMUM OUTSTANDING LEG OF 1 1/2".
5. ALL STRUCTURAL MEMBERS SHALL BE CONTINUOUS FULL LENGTH, SPLICING OF MEMBERS IS NOT PERMITTED UNLESS SPECIFICALLY DETAILED BY ENGINEER.
6. SCREWS SHALL BE SELF DRILLING WITH A LENGTH THAT ENSURES THREE EXPOSED THREADS BEYOND PENETRATION OF THE JOINED MATERIAL. MINIMUM SCREW SPACING SHALL BE 3", MINIMUM EDGE DISTANCE SHALL BE 3/4".
7. METAL STUD BRIDGING IS REQUIRED @ 48" O.C. MAXIMUM UNLESS WALLS ARE SHEATHED ON BOTH SIDES.



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 Corp. License Number C-2550

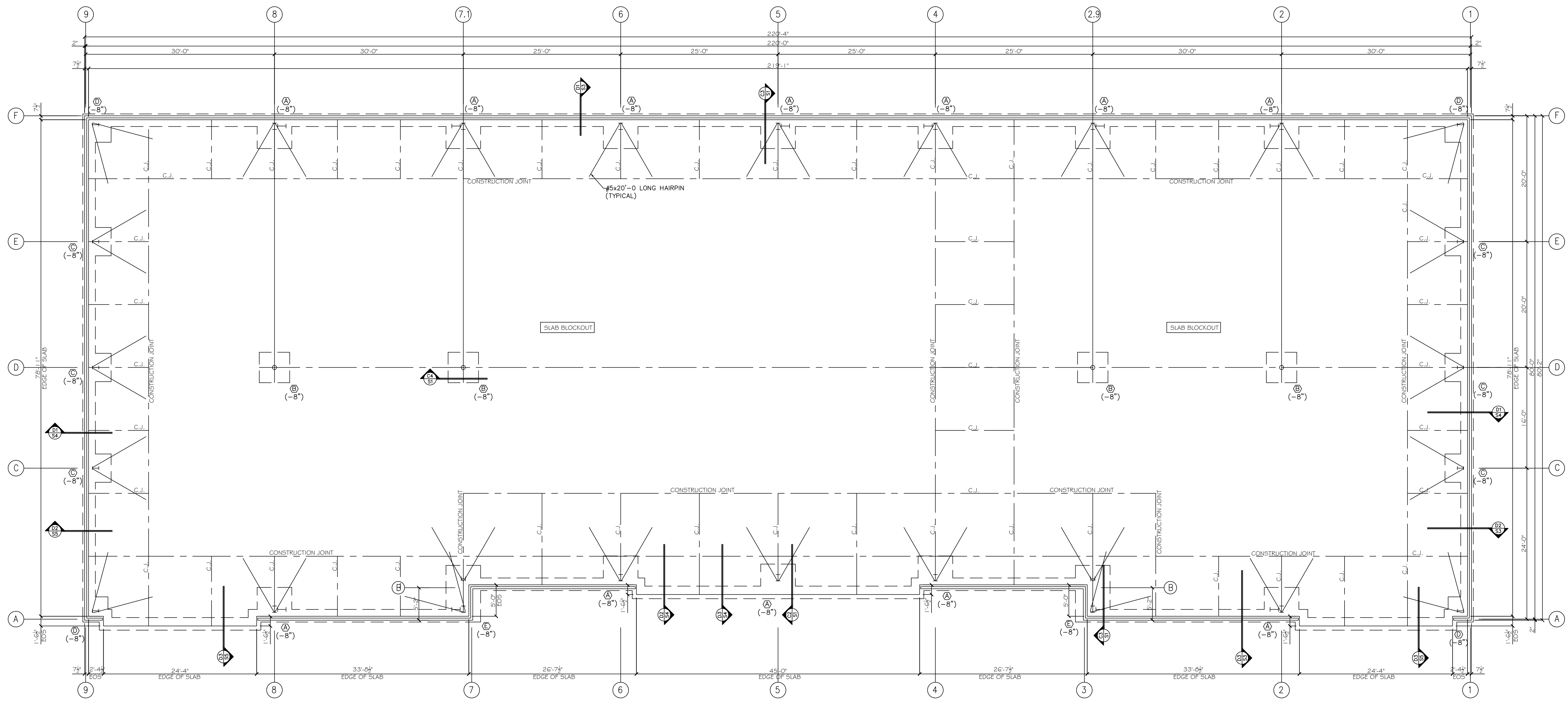
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REVISIONS

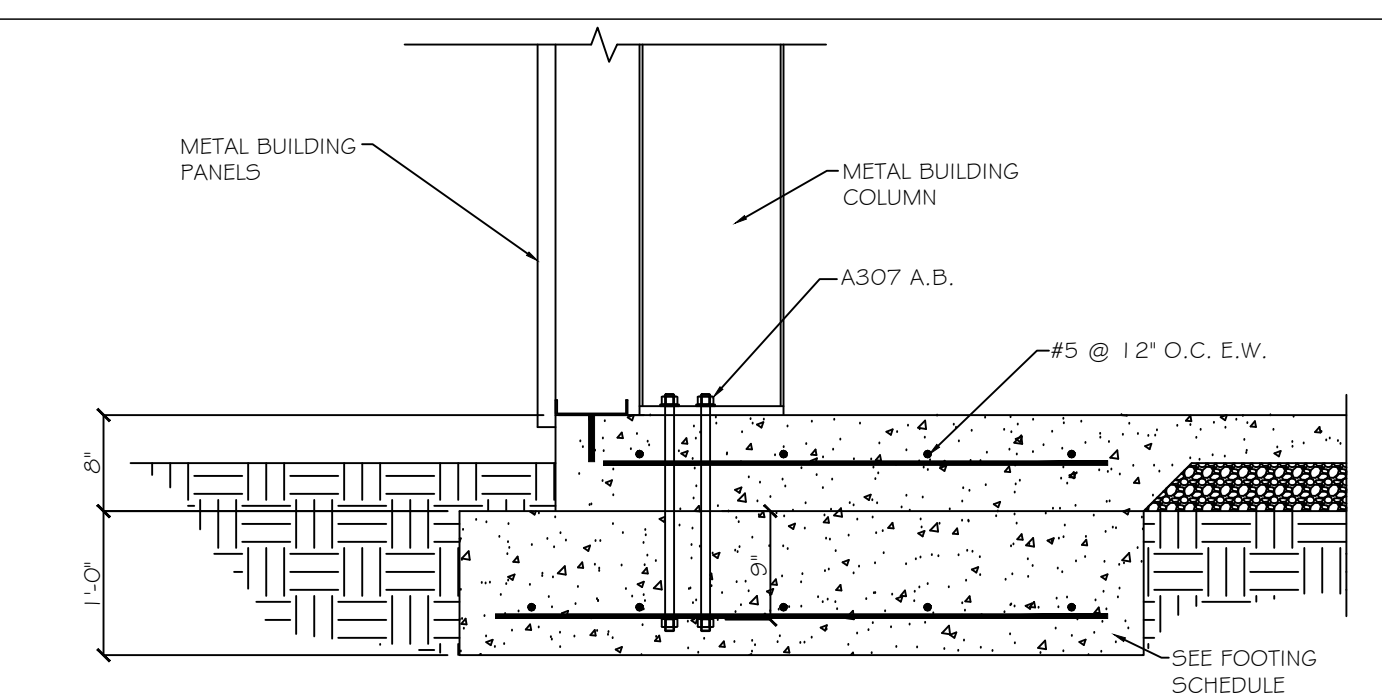
GENERAL NOTES

5-31-22

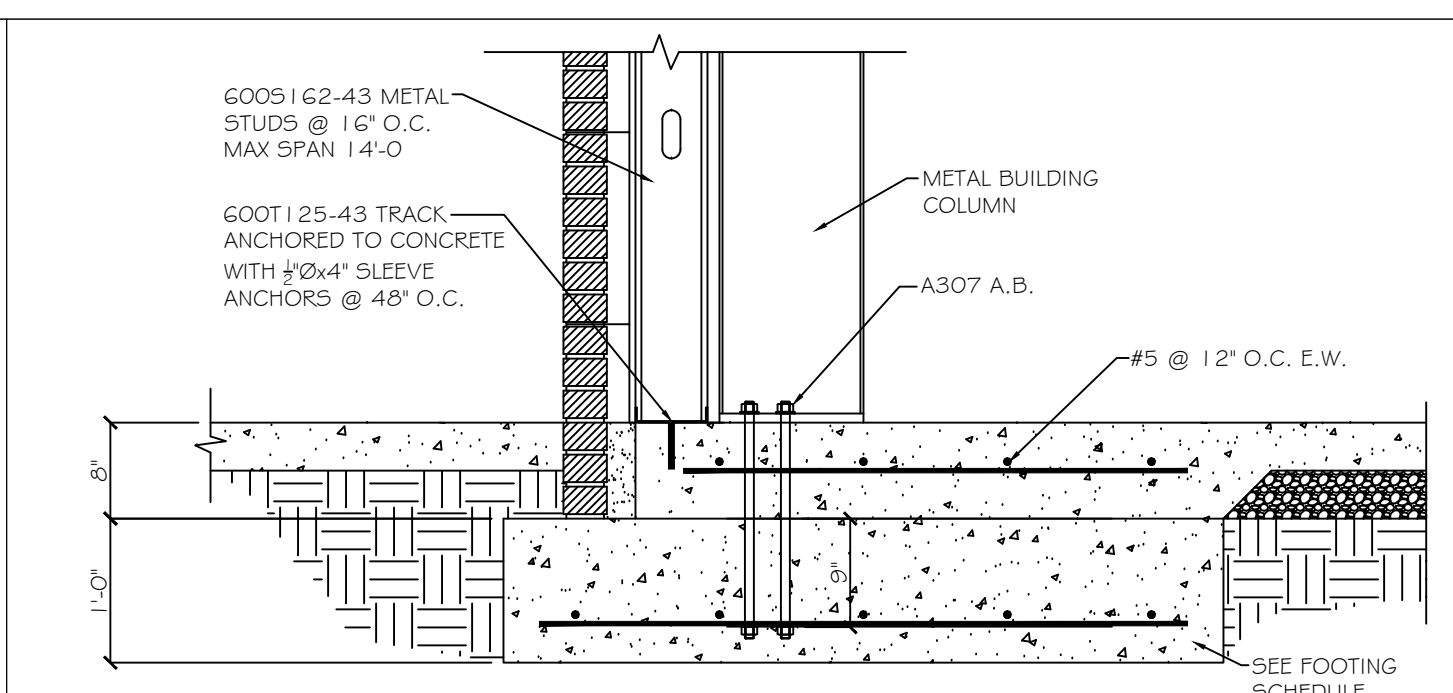
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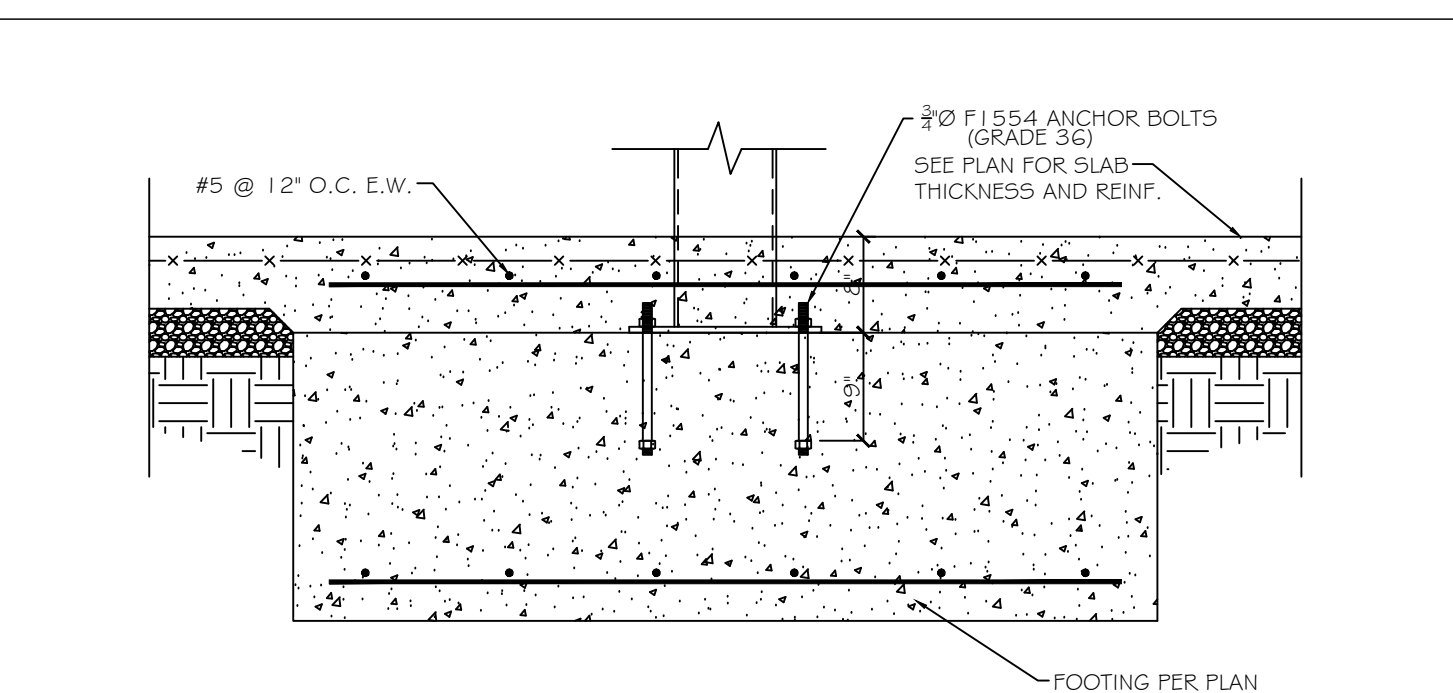
C1 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



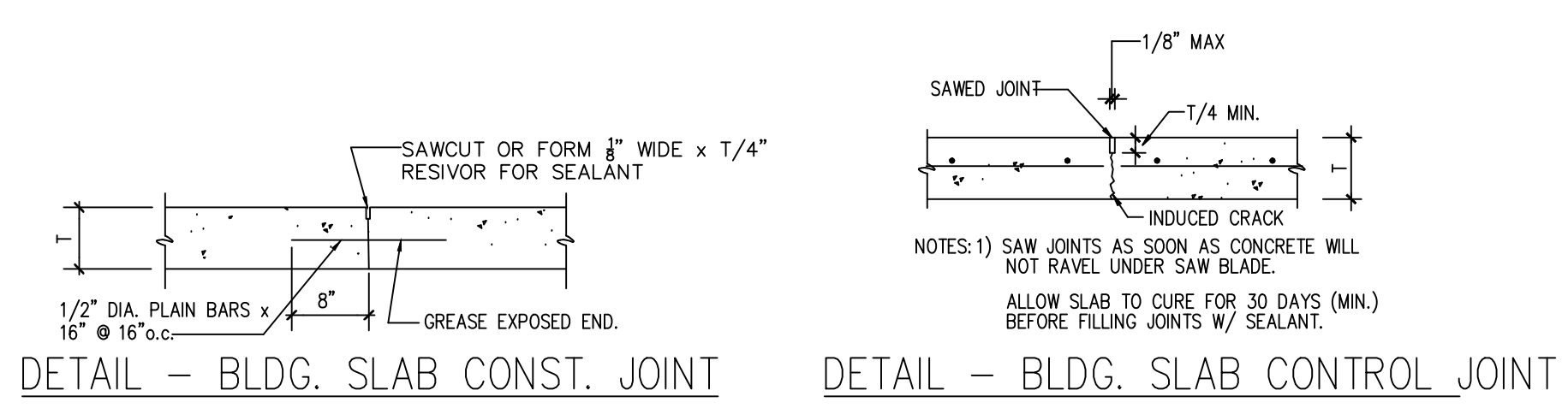
C2 EXTERIOR COLUMN FOOTING DETAIL
SCALE: 3/4" = 1'-0"



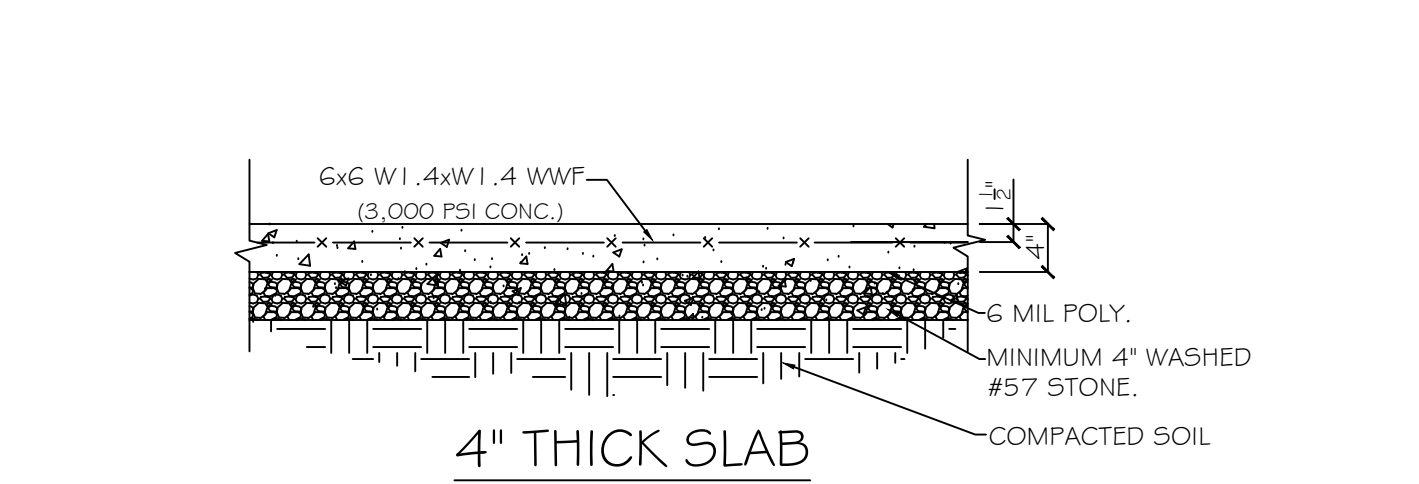
C3 EXTERIOR COLUMN FOOTING DETAIL
SCALE: 3/4" = 1'-0"



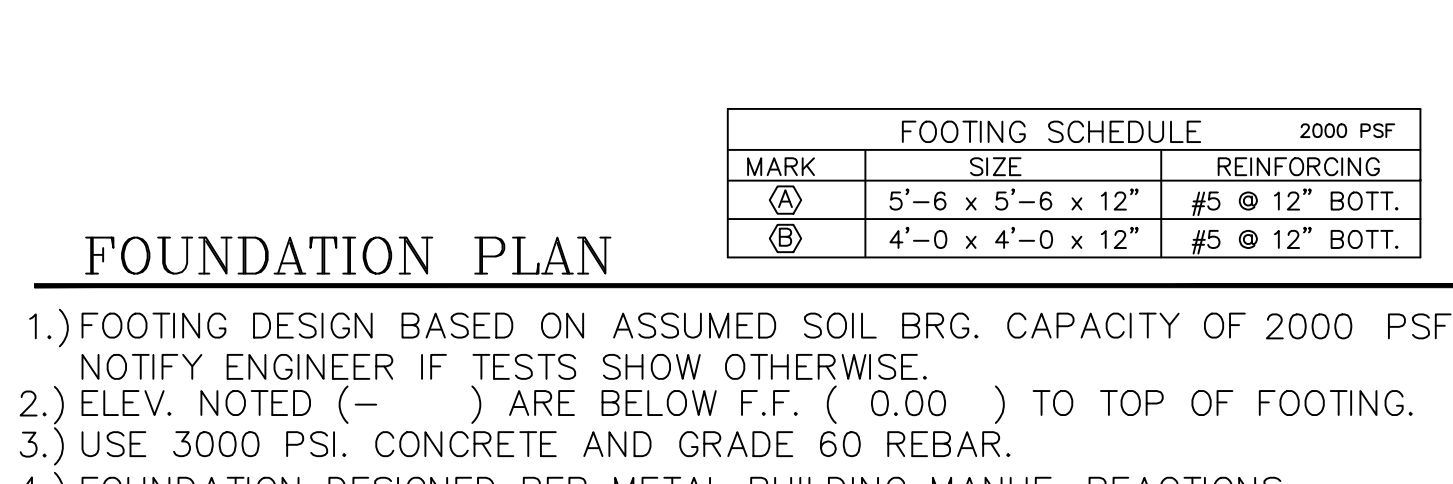
C4 INTERIOR FOOTING DETAIL
SCALE: 3/4" = 1'-0"



D2 SLAB JOINT DETAILS
SCALE: 3/4" = 1'-0"

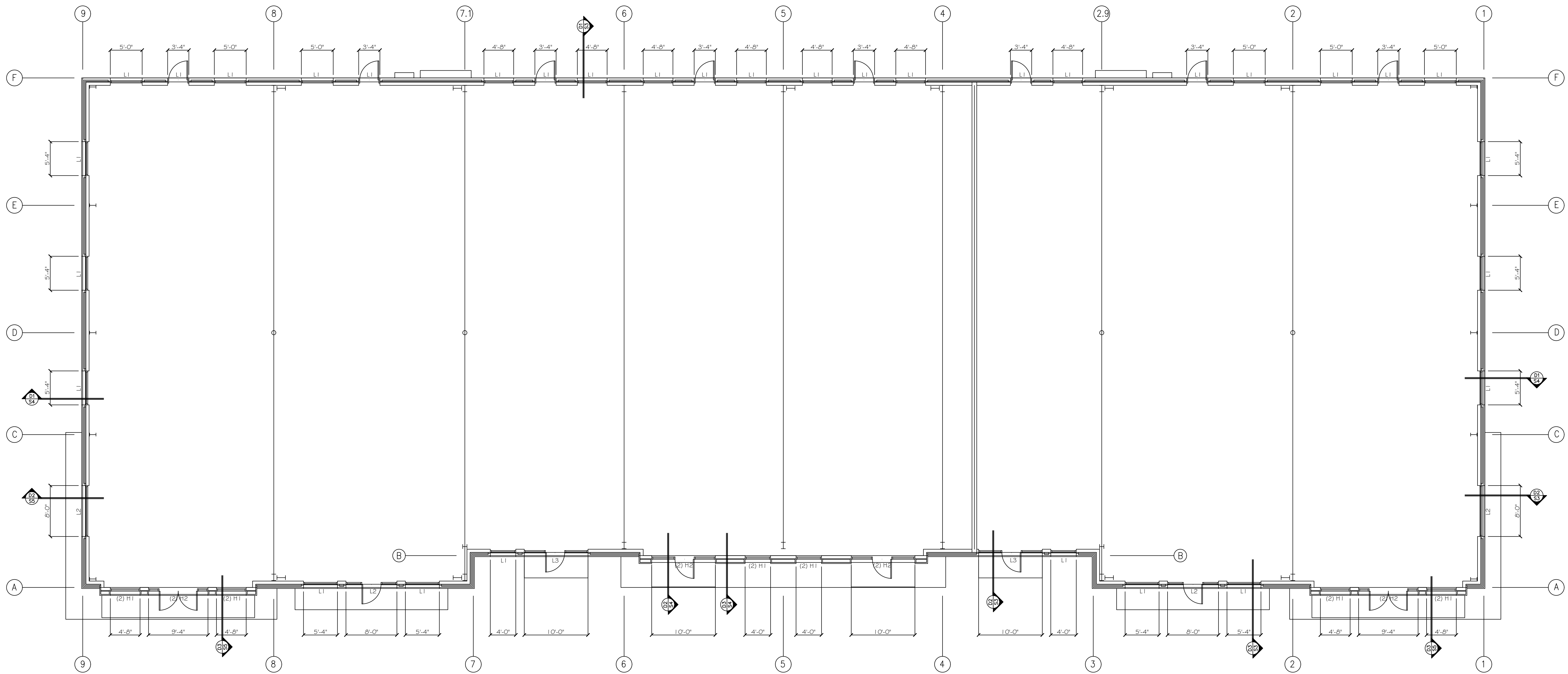


D3 SLAB REINFORCEMENT DETAIL
SCALE: 3/4" = 1'-0"



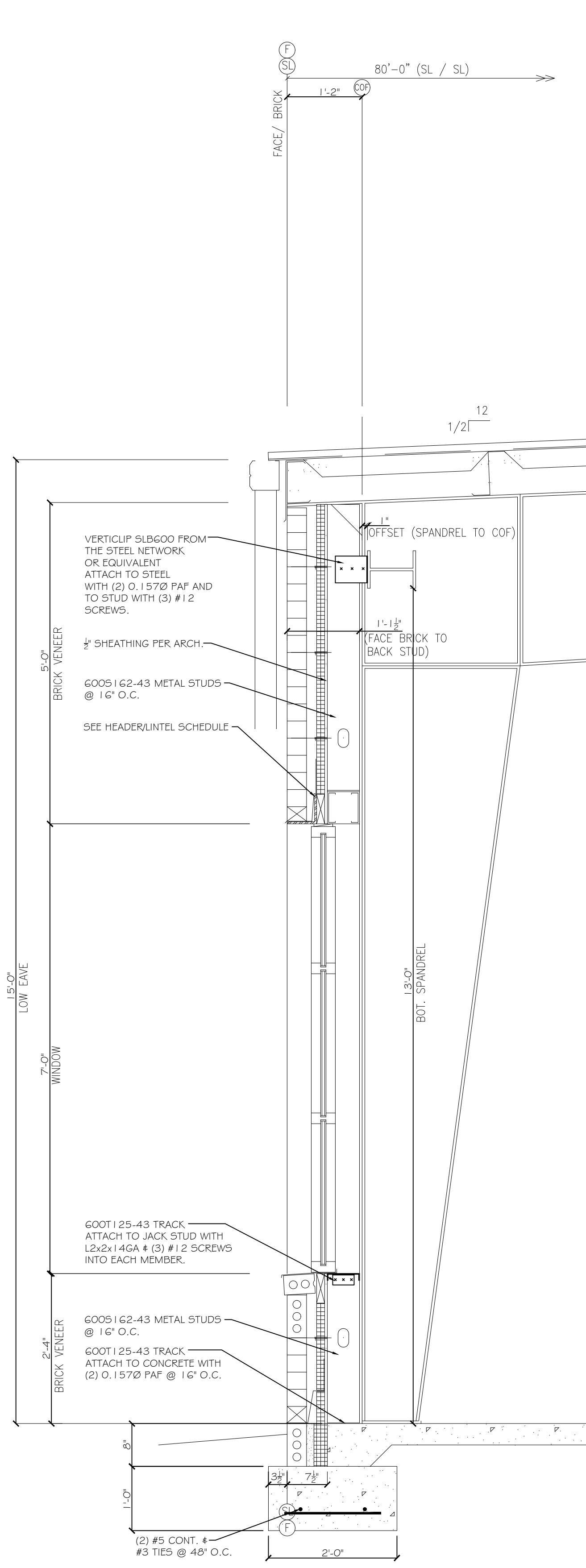
D4 FOUNDATION NOTES

FOOTING SCHEDULE			2000 PSF
MARK	SIZE	REINFORCING	
(A)	5'-6" x 5'-6" x 12"	#5 @ 12" BOT.	
(B)	4'-0" x 4'-0" x 12"	#5 @ 12" BOT.	

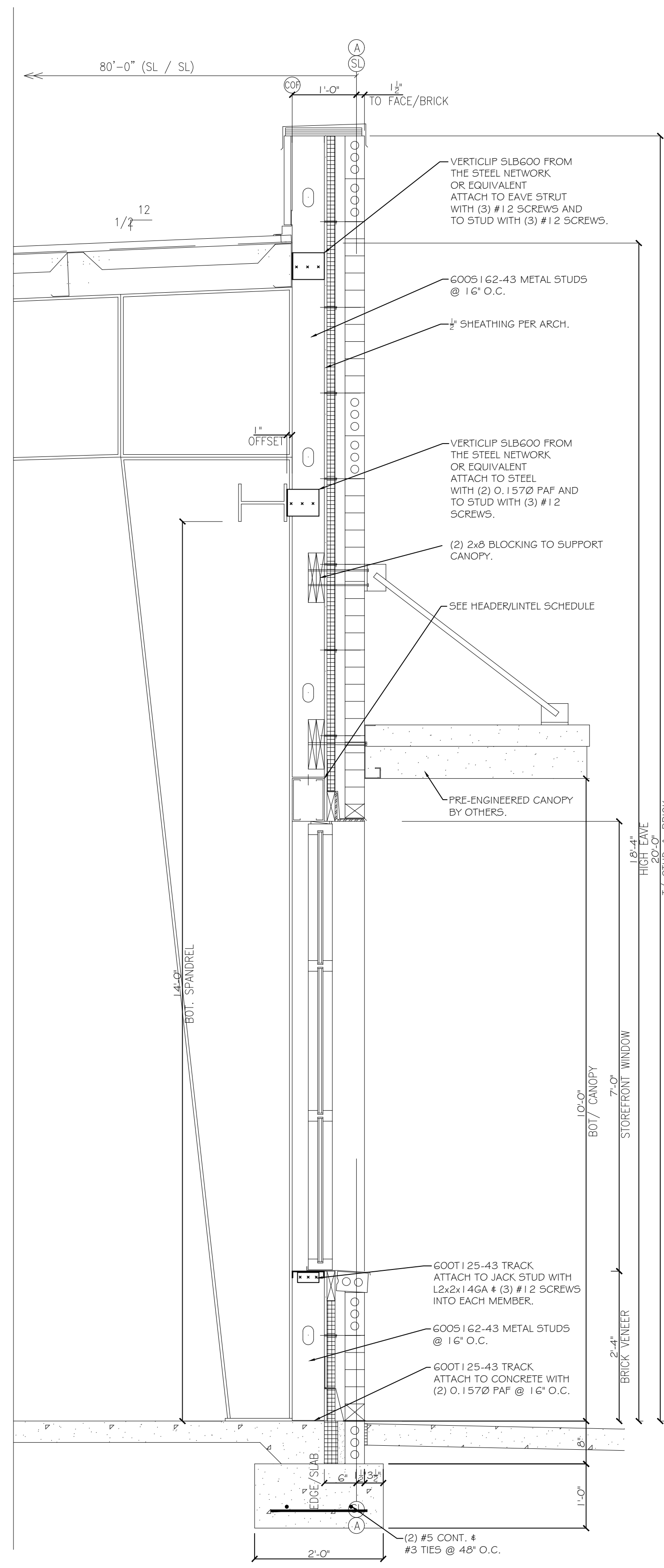


C1 WALL FRAMING PLAN
SCALE: 1/8" = 1'-0"

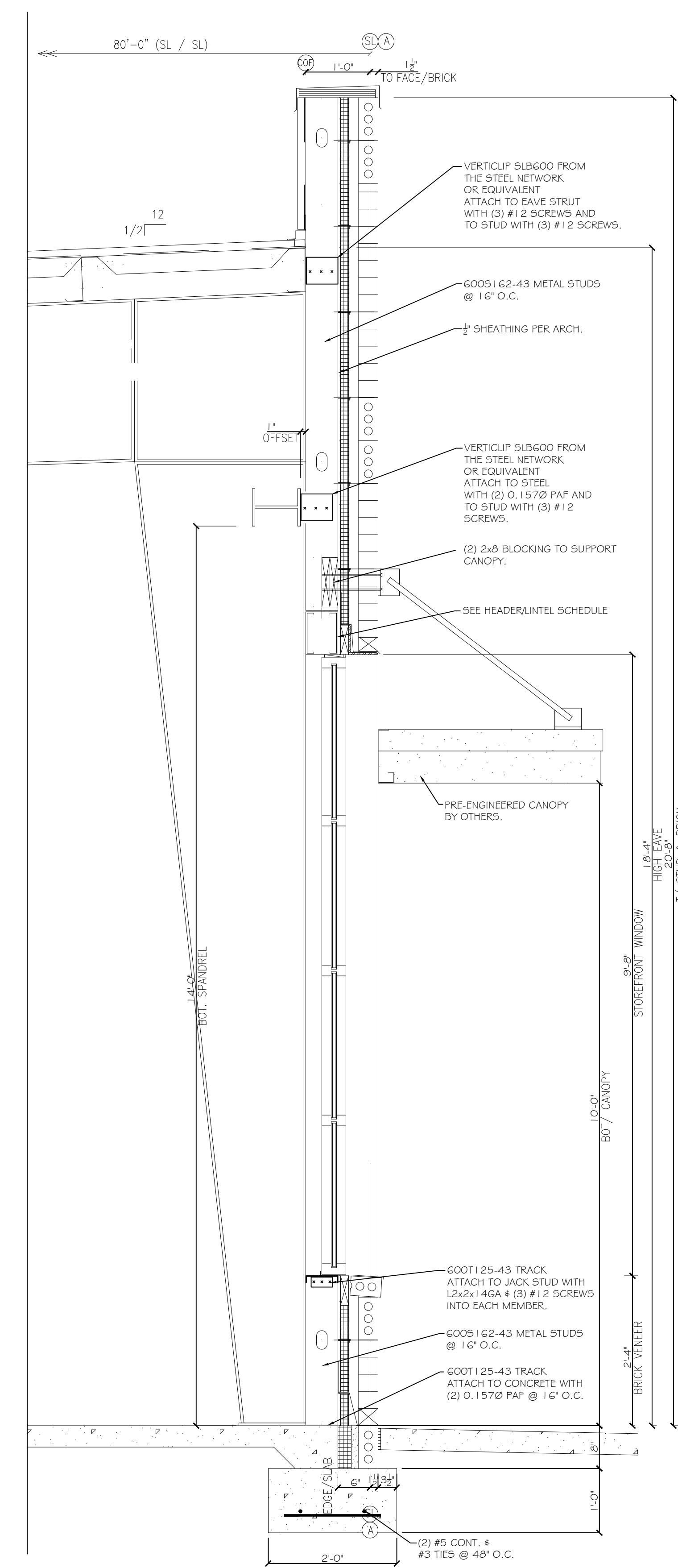
HEADER/LINTEL SCHEDULE		
DESIGNATION	HEADER/LINTEL	SUPPORT
L1	2~600S162-43 METAL STUDS WITH 600T125-43 TRACK TOP & BOTT. & L5x5x $\frac{3}{8}$ BRICK LINTEL BEAR 8" MIN.	(1) 600S162-43 JACKS (2) 600S162-43 KINGS
L2	2~800S162-43 METAL STUDS WITH 600T125-43 TRACK TOP & BOTT. & L5x5x $\frac{3}{8}$ BRICK LINTEL BEAR 8" MIN.	(2) 600S162-43 JACKS (3) 600S162-43 KINGS
L3	2~800S162-43 METAL STUDS WITH 600T125-43 TRACK TOP & BOTT. & L5x5x $\frac{3}{8}$ BRICK LINTEL BEAR 8" MIN. ATTACH LINTEL TO HEADER WITH (2) #12 SCREWS @ 12" O.C.	(2) 600S162-43 JACKS (3) 600S162-43 KINGS
H1	2~600S162-43 METAL STUDS WITH 600T125-43 TRACK TOP & BOTT.	(1) 600S162-43 JACKS (2) 600S162-43 KINGS
H2	2~800S162-43 METAL STUDS WITH 600T125-43 TRACK TOP & BOTT.	(2) 600S162-43 JACKS (3) 600S162-43 KINGS



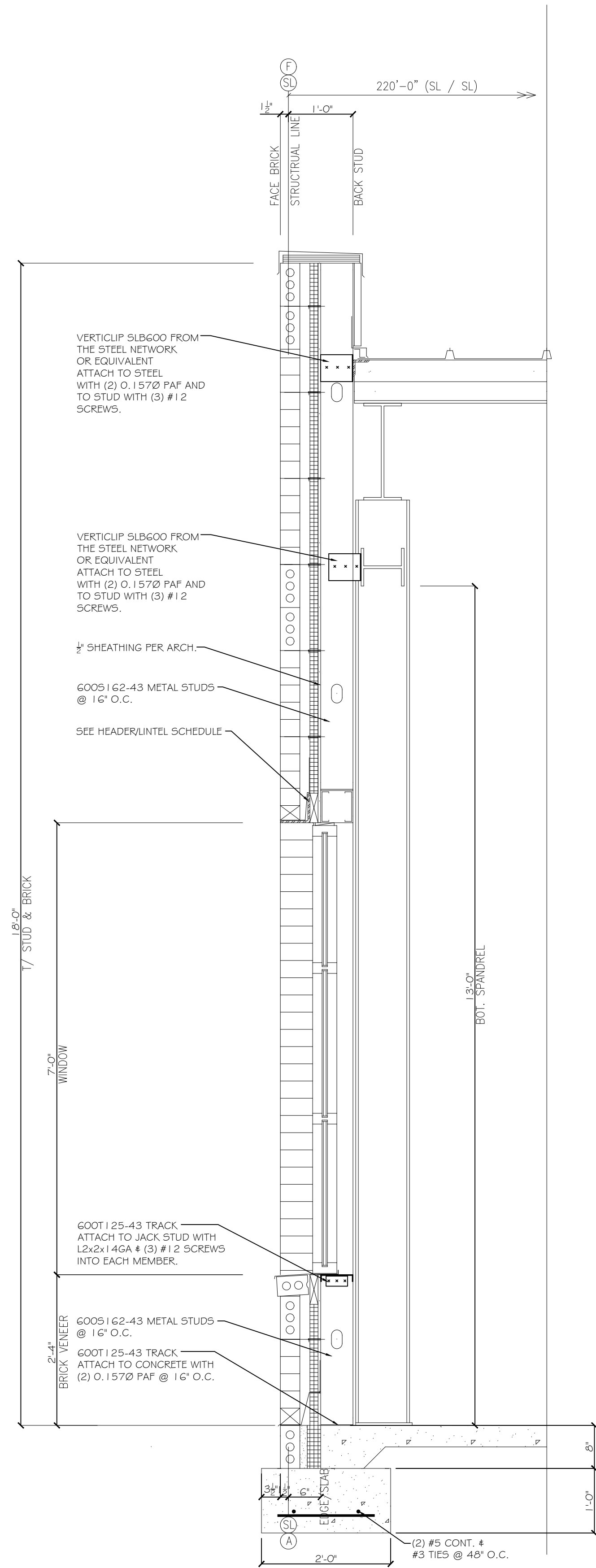
D1 SECTION @ LOW EAVE
SCALE: 3/4" = 1'-0"



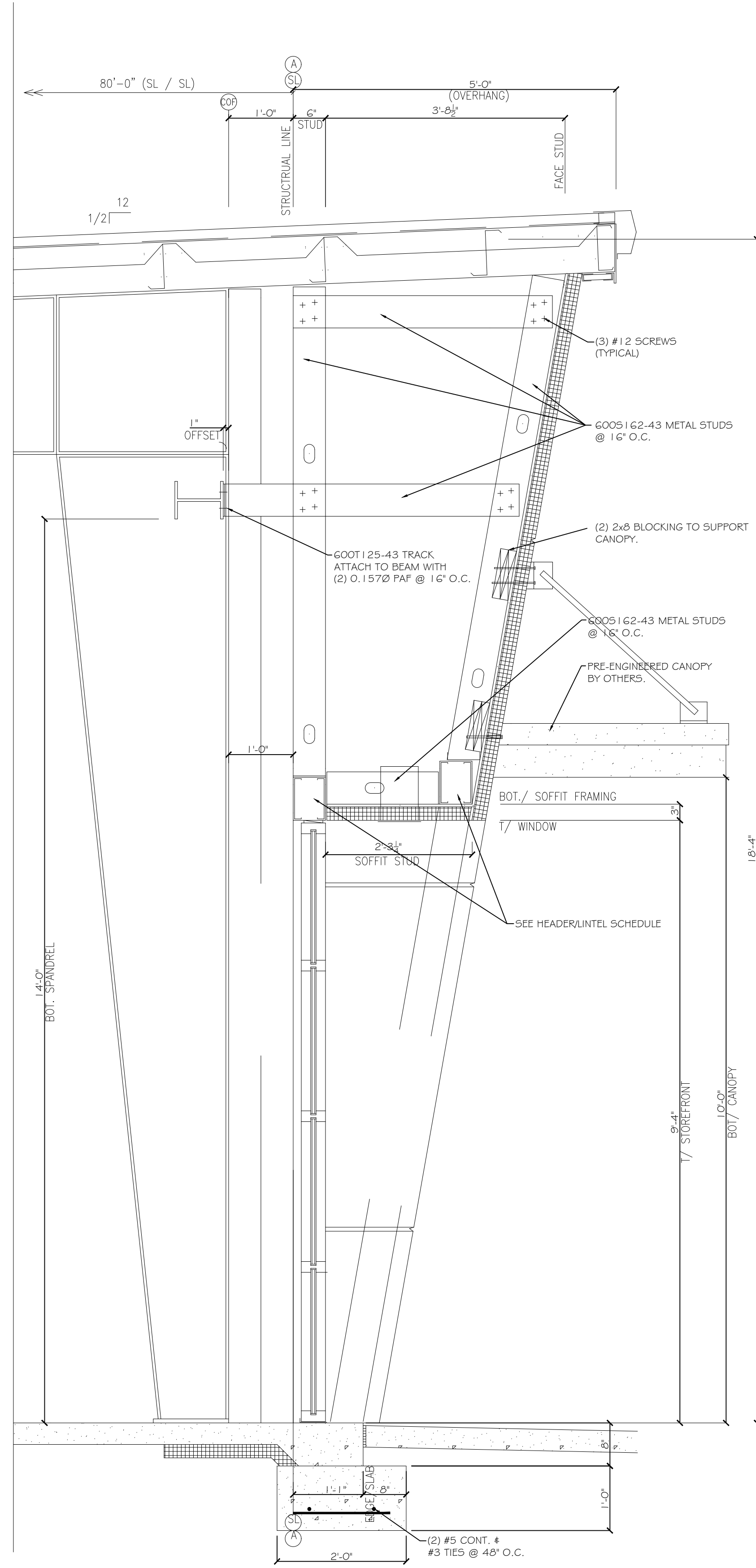
D2 SECTION @ LOW BRICK
SCALE: 3/4" = 1'-0"



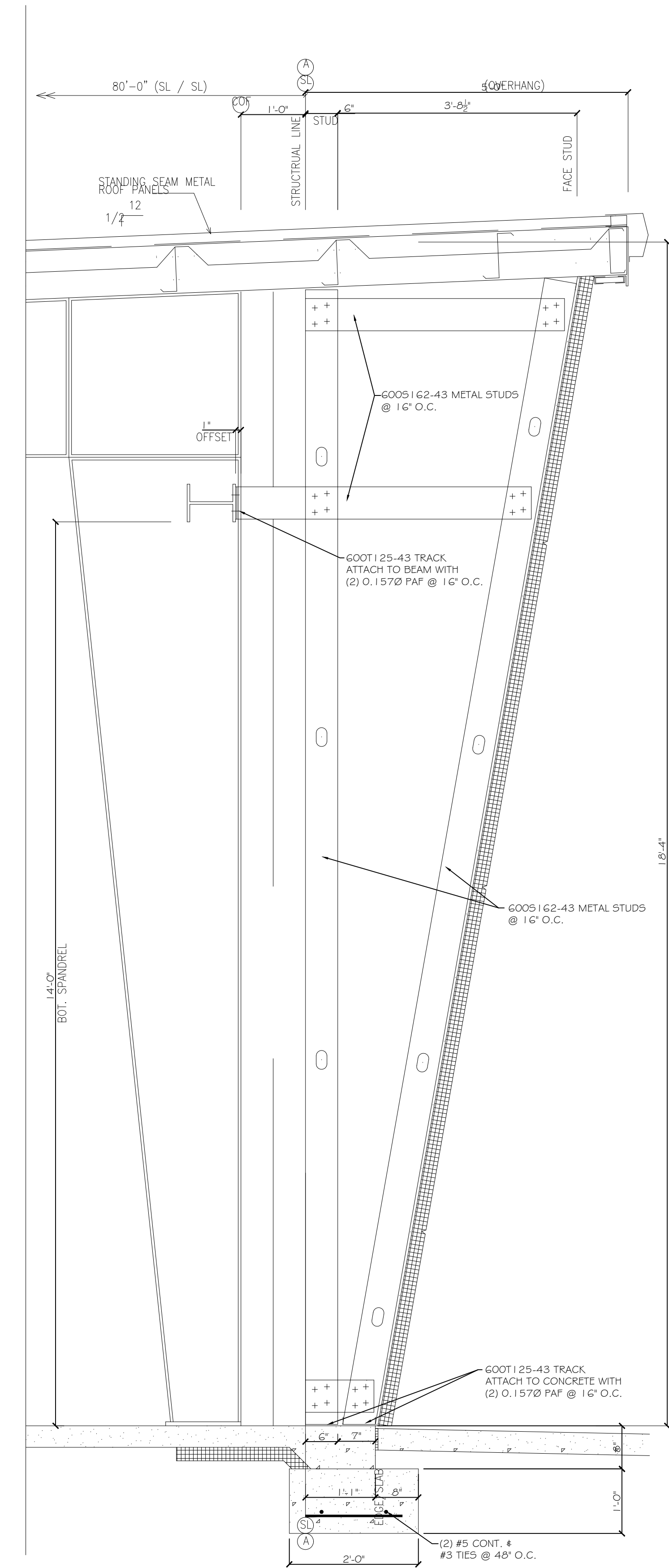
D3 SECTION @ HIGH BRICK
SCALE: 3/4" = 1'-0"



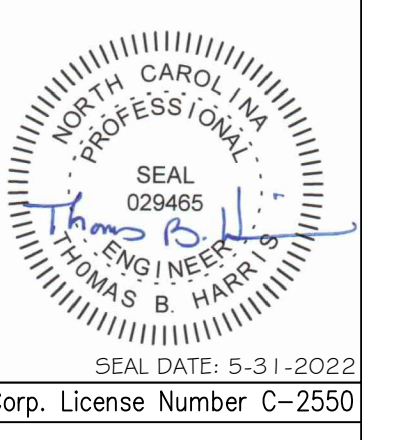
D1 ENDWALL @ PARAPET
SCALE: 3/4" = 1'-0"



D2 SECTION @ LOW ENTRY
SCALE: 3/4" = 1'-0"



D3 OVERHANG @ EIFS
SCALE: 3/4" = 1'-0"



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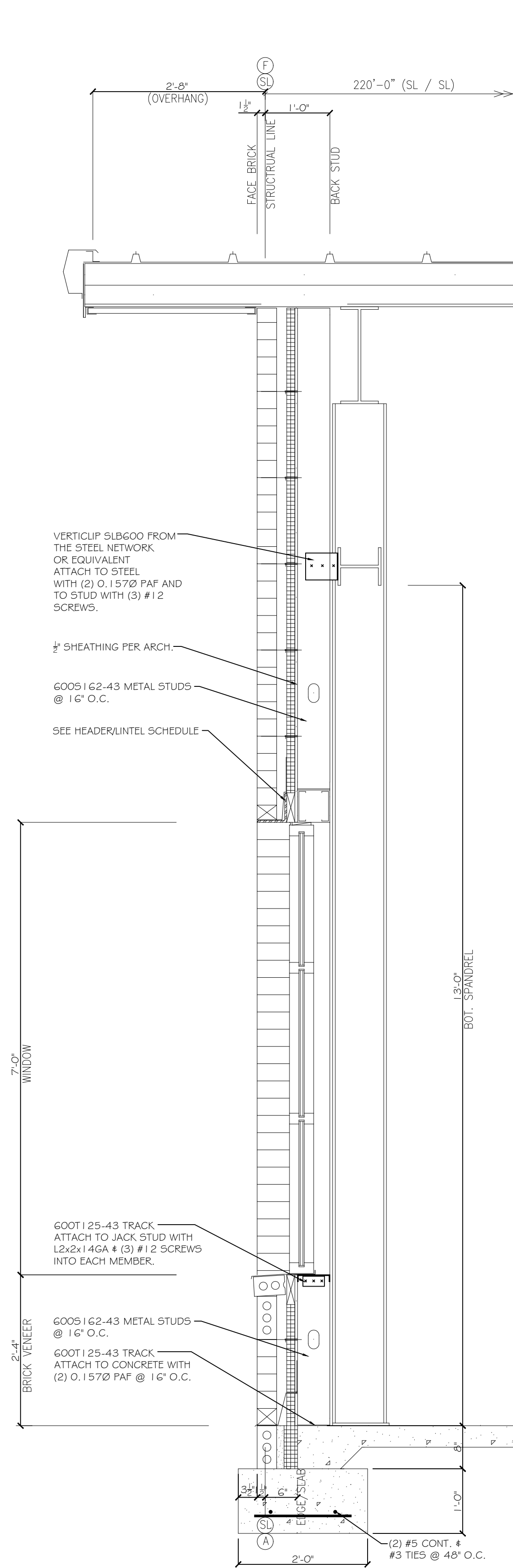
CAMERON COMMERCIAL
SHELL BUILDING
NC HWY 24-87
CAMERON, NC

REVISIONS

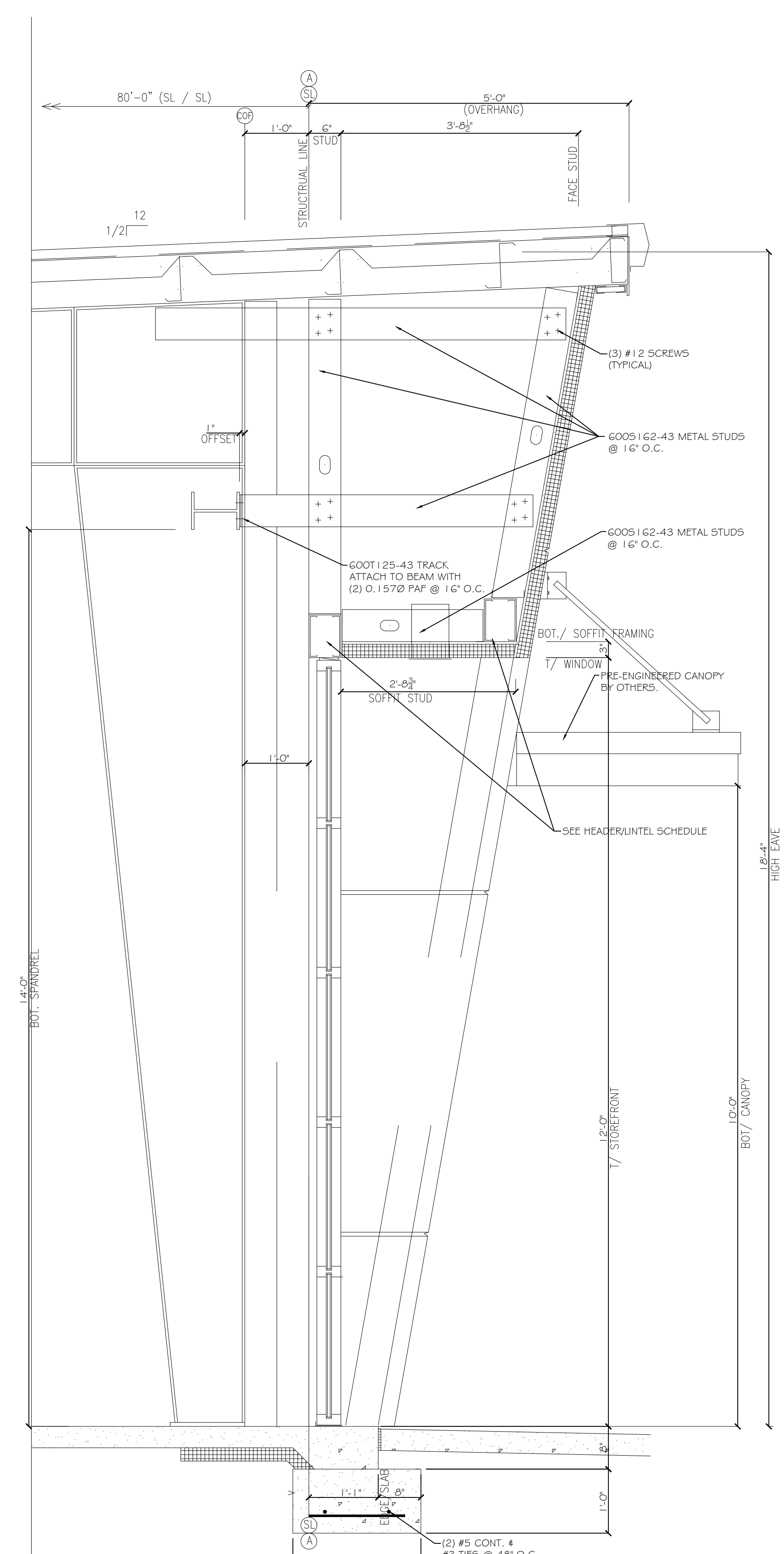
WALL SECTIONS

5-31-22

S4



D2 ENDWALL @ OVERHANG
SCALE: 3/4" = 1'-0"



D3 SECTION @ HIGH ENTRY
SCALE: 3/4" = 1'-0"