

1.0 CODES AND STANDARDS:

- 1.1 2018 North Carolina State Building Code
- 1.2 "Minimum Design Loads for Buildings and other Structures" SEI/ASCE 7-16.
- 1.3 "Building Code Requirements for Structural Concrete (ACI 318-14)" American Concrete Institute 2014
- 1.4 "Manual of Standard Practice", Concrete Reinforcing Steel Institute, latest edition.
- 1.5 "Specification for the Design of Cold-Formed Steel Structural Members", American Iron and Steel Institute (AISI), S100-12.
- 1.6 "Specification for Structural Steel Buildings" AISC 360-10.
- 1.7 "Structural Welding Code - Steel (AWS D1.1)" and "Structural Welding Code - Reinforcing Steel (AWS D1.4)", American Welding Society.
- 1.8 "Standard Specifications for Joist Girders (JG-10)", "Standard Specifications for Open Web Steel Joists, K-Series (K-10)", "Standard Specifications for Long Span Steel Joist, LH Series and Deep Longspan Steel Joists, DLH Series (LH/DLH-1.1)", Steel Joist Institute
- 1.9 "Design Manual For Floor Decks and Roof Decks", Steel Deck Institute, latest edition.
- 2.0 DESIGN LOADS:  
Project Located in: City of Wilmington, County of New Hanover, State of North Carolina.
- 2.1 Gravity Loads: (Reduced where allowed)

GRAVITY LOADS			
Case	Locations	Uniform (psf)	Concentrated (lbs) (Over 2.5x2.5)
DEAD	Roof	20	
	Floor	72	
LIVE	Roof	20	
	Floor	100	

2.2 Snow Loads per Referenced Code:

$P_g = 10 \text{ psf}$   
 $I = 1.1$   
 $C_e = 0.9$   
 $C_t = 1.0$

2.3 Risk Category = III

2.4 Wind Loads per Referenced Code:

Basic Design Wind Speed:  
3-second Gust PER ASCE  
V = 155 mph  
Exposure = B

Main Wind Force Resisting System:  
Building is enclosed & Internal Pressure coefficient (Cp) = +0.18 & -0.18  
Topographic Factor Kzt = 1.0  
Wind Directionality Factor, Kd = 0.85

CALCULATED WIND BASE SHEAR FOR MWFRS			
Building	Vx (k)	Vy (k)	
Main Building	298	270	

Components & Cladding

COMPONENTS AND CLADDING WIND PRESSURE (PSF)										
Walls	Area < 1002	Area < 2002	Area < 3002	Area < 4002	Area < 5002	Area < 6002	Area < 7002	Area < 8002	Area < 9002	
Zone 4	40.5	-44.0	38.8	-42.2	36.2	-39.7	34.3	-38.0	30.2	-33.7
Zone 5	40.5	-54.3	38.8	-50.8	36.2	-45.7	34.3	-42.2	30.2	-33.7
Roof	Area < 1002	Area < 2002	Area < 3002	Area < 4002	Area < 5002	Area < 6002	Area < 7002	Area < 8002	Area < 9002	
Zone 1'	18.3	-41.2	16.8	-41.2	16.0	-41.2	16.0	-41.0	16.0	-38.0
Zone 1	18.3	-71.7	16.8	-67.9	16.0	-60.3	16.0	-56.5	16.0	-45.0
Zone 2	18.3	-94.6	16.8	-88.9	16.0	-81.3	16.0	-73.7	16.0	-60.3
Zone 3	18.3	-129.0	16.8	-117.5	16.0	-100.4	16.0	-88.9	16.0	-60.3

- Notes:
- Areas noted are effective wind areas as per ASCE 7, 26.2 definitions.
  - See figures this sheet for Zone locations.
  - Plus and minus signs signify pressures acting toward and away from surfaces, respectively.
  - Design pressures shown in table are strength design wind pressures. Allowable stress design wind pressures may be calculated by factoring the pressures by 0.6.
  - Design pressures for effective wind areas between those noted in schedule may be interpolated.
  - Tributary area = greater of LW or LA/3.
  - Deflections may be calculated based on 42% of these loads.

2.5 Seismic Loads per Referenced Code:

Site class = D (From Geotechnical Report)  
Spectral Response Coefficients:  
SS = 0.152g  
S1 = 0.087g  
SDS = 0.162g  
SD1 = 0.107g  
Cs = 0.068

Seismic Design Category = B  
Seismic Importance Factor = 1.25

Basic Seismic - Force - Resisting System  
STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMS

RX-RY=3 / DX-QY=3 / CDX-CDY=3  
Building Height Limit = NL  
Analysis Procedure - per Referenced Code:  
Equivalent Lateral Force Procedure

CALCULATED SEISMIC BASE SHEAR FOR MWFRS			
Building	Vx (k)	Vy (k)	
Main Building	115	115	

2.6 Ground designed per Referenced Code

Ground:  
Uniform load = 50 psf, any direction  
Concentrated load = 200 lbs, any direction  
Intermediate Rail: (all those except handrail)

2.7 Flood Loads:

Project is not located in a flood zone.

3.0 FOUNDATIONS:

- 3.1 Foundation design is based on geotechnical report #49.234839 by ECS Southeast, LLC dated June 21, 2024. This report is available in the project manual. The recommendations contained in this report are for the Contractor's information only.
- 3.2 Footings shall bear on strata capable of sustaining a minimum bearing pressure of 3,000 psf.
- 3.3 Top of footing (TFTG) elevations are shown on the drawings or to be determined by the Contractor in the field in accordance with the guidelines set forth in the drawings.
- 3.4 Bottom of exterior footings and grade beams shall bear at a minimum depth of 1'-0" below final grade for frost protection.
- 3.5 Testing and Inspection:
  - a. All areas to have slabs on grade shall be proof rolled in accordance with and under observation of the Geotechnical Engineer and approved prior to preparation for concrete placement.
  - b. All foundation bearing strata shall be inspected and approved by the Geotechnical Engineer prior to any concrete placement.
  - c. Geotechnical Engineer shall be the sole judge as to suitability of foundation and/or slab bearing strata.
  - d. Footing bearing elevations shall be adjusted in the field as required to meet the design bearing pressures by additional excavation or compaction and/or backfilling or by other means acceptable to the Geotechnical Engineer.
- 3.6 Undercutting to remove existing fill beneath footings and slab shall be performed at the direction of the Geotechnical Engineer.
- 3.7 Engineered Fill: All fill material shall be selected in accordance with the Geotechnical Report Material shall be a clean, low plastic soil with a plasticity index less than 30 (less than 15 is preferred), liquid limit less than 50, and unit weight of 120 pcf (+5 pcf)
- 3.8 Compaction: All fill shall be placed in loose lifts not exceeding 9" in thickness and compacted to a minimum of 95% Standard Proctor (ASTM D-698) except that the top 12" shall be compacted to a minimum of 98% Standard Proctor. Moisture shall be controlled to within 3% above or below optimum content.
- 3.9 Remove all topsoil and organic materials. The stripping should extend at least 10' beyond the proposed construction limits.
- 3.10 Contractor shall review all construction considerations as outlined in the Geotechnical report and bid accordingly.
- 4.0 CONCRETE:
- 4.1 Concrete Strength:  
All concrete shall be in accordance with the American Concrete Institute (ACI) 301 and 318.

4.2 Concrete shall have a 28 day compressive strength and density as follows:

CONCRETE STRENGTH SCHEDULE			
Location	Concrete Strength	Density	Comments
Footings	3,000 psi	±145 pcf	-
Slab-on-grade	See Schedule S3 sheets	±145 pcf	-
Elevated Slab on Deck	3,000 psi	±145 pcf	-

4.3 Concrete Mix Design:

- a. Submittals: Submit mix designs of each proposed concrete mix not less than 15 days prior to the start of work.
- b. Mix designs, including water, cement ratios and slumps, shall be prepared in accordance with ACI 301-05, Section 4. Cement shall conform to ASTM C 150 Type 1 or at contractor's option, ASTM C 595 Type IP where fly ash is permitted. Normal weight aggregate shall conform to ASTM C 33 and light weight aggregate shall conform to ASTM C 330. No admixtures containing calcium chloride shall be permitted in any concrete.
- c. Aggregate size shall be #57 stone for supported slabs or other formed concrete elements; #57 stone for slabs on grade and footings or other concrete elements formed from and poured against earth; #89 stone for masonry grout.
- d. Water reducing admixture shall be used in all concrete.
- e. Air entraining admixture in accordance with ACI 301 shall be used in all concrete exposed freezing and thawing during construction or service conditions.
- f. Concrete subjected to freezing/thawing shall have a maximum water/cement ratio of 0.45 and shall contain the amount of air entraining agent specified in ACI 301-05 Section 4.
- g. All columns and walls shall have superplasticizer admixture.

4.4 Curing:  
See specifications for curing method options and apply within two (2) hours after completion of finishing to all concrete formwork and walls, U.N.O., other than footings and grade beams.

4.5 Use a non-corrosive, non-chloride accelerating admixture in concrete exposed to temperatures below 40°. Uniformly heat the water and aggregates to a temperature of not less than 50° Place and cure concrete in accordance with ACI 305.

4.6 When hot weather conditions exist, place and cure concrete in accordance with ACI 301. Cool ingredients before mixing to maintain concrete temp. at time of placement below 90°.

4.7 Reinforcing in all abutting concrete, including footings shall be continuous through or around all corners or intersections. Dowels or splices shall be equal in size and spacing to the reinforcing in the abutting members.

4.8 Refer to architectural drawings for door and window openings, dips, reglets, washes, masonry anchors, brick ledge elevations, slab depressions and miscellaneous embedded plates, bolts, anchors, angles, etc.

4.9 Refer to plumbing, mechanical and electrical drawings for underflow, perimeter and other drains and for sleeves, outlet boxes, conduit, anchors, etc. The various trades are responsible for their items.

4.10 Base plates, anchor rods, support angles and other steel exposed to earth or granular fill shall be covered with a minimum of 3" of concrete.

4.11 Fill slabs, not shown on the structural drawings and all exterior slabs to be broom finished, shall be reinforced with a minimum of 6 x 6 W2.0 x W2.0 WWM unless noted otherwise on other drawings.

4.12 Finish surfaces to the following tolerances, according to ASTM E 1155, for a randomly trafficked floor surface:  
a. Specified overall values of flatness, F(F) 25, and of levelness, F(L) 20, with minimum local values equal to 3/4 of the overall flatness and levelness values.  
b. The composite F(F) and F(L) numbers shall be measured and reported within 72 hours after completion of slab concrete finishing operations and before removal of any supporting shores.

4.13 Non-shrink grout shall be pre-mixed, non-corrosive, non-metallic, non-staining containing silica sands, Portland cement, shrinkage compensating and water reducing agents. Product shall only require the addition of water. Minimum compressive strength shall be 2500 psi after one day and 7000 psi after 28 days. Grout shall be free of gas producing or air releasing and oxidizing agents and contain no corrosive iron, aluminum or gypsum.

4.14 Provide concrete grout - not mortar - for reinforced masonry lintel and bond beams where indicated on drawing or as scheduled.

4.15 Tolerance for anchor rods and other embedded items shall be per the AISC Code of Standard Practice Section 7.5.

4.16 Unless otherwise shown in the architectural drawings, provide 3/4" chamfers at all column, wall, slab or beam edges that are exposed to view in the finished structure.

4.17 Concrete cover for cast-in-place concrete reinforcement:  
Concrete cast against & permanently exposed to earth: 3"  
Concrete exposed to earth or weather:  
No. 6 through No. 18 Bars: 2"  
No. 5 Bar and smaller: 1"  
Concrete not exposed to weather or in contact with ground:  
Slabs, Walls, Joists: 1"  
No. 11 Bar and smaller: 3/4"  
Beams, Columns: 1 1/2"  
Primary Reinforcement, Ties, Stirrups: 1/2"

5.0 REINFORCING STEEL:

5.1 Reinforcing shall be domestic non-billet steel conforming to ASTM A615, Grade 60 or 60S including stirrups and ties, except that reinforcing which is required to be welded shall conform to ASTM A706.

5.2 Field bending of concrete reinforcing steel is not permitted.

5.3 Welded wire mat and fabric shall conform to ASTM A184 and A185 respectively and shall be provided in flat sheets. Welded wire mat/fabric shall be lapped 6" at all splices.

5.4 Bar Splices:

Bar Size	Fc = 3,000psi			Fc = 4,000psi			Fc = 5,000psi		
	Ld (in)	Class "B" Lap Splice (in)	Ld (in)	Class "B" Lap Splice (in)	Ld (in)	Class "B" Lap Splice (in)	Ld (in)	Class "B" Lap Splice (in)	
#3	17	22	15	15	19	13	17	17	
#4	22	29	19	25	17	17	23	23	
#5	28	36	24	31	22	22	28	28	
#6	33	43	29	37	26	26	34	34	
#7	48	63	42	54	38	38	49	49	
#8	55	72	48	62	43	43	56	56	
#9	62	81	54	70	48	48	63	63	
#10	69	90	60	78	54	54	69	69	
#11	76	98	66	85	59	59	76	76	

- NOTES:
- Values are based on normal weight concrete.
  - Ld = minimum embed of rebar
  - Class "B" lap splice refers to minimum distance bars must be lapped for a full tension splice.
  - For Epoxy Coated bars multiply table values by 1.2
  - For Beam Top Bars multiply table values by 1.3
  - For Top Bars in Slabs and Footings 13m and thicker multiply table values by 1.3

6.0 COLD-FORMED STEEL FRAMING:

- 6.1 All members shall be designed in accordance with the American Iron and Steel Institute (AISI) "Specifications for the Design of Cold-Formed Steel Structural Members", Latest Edition.
- 6.2 All framing members shall be formed from corrosion-resistant steel corresponding to the requirements of ASTM A446, with a minimum yield strength of 33 ksi for joists and studs and 33 ksi for runners.
- 6.3 All members shown are standard designations of Steel Stud Manufacturers Association (SSMA)
- 6.4 Design of members indicated in structural drawings is based on minimum properties of products produced per SSMA standards of members specified. No substitution of materials is acceptable for use without prior approval of the structural engineer. Substitutions shall meet or exceed all properties produced per SSMA standards of members specified.
- 6.5 All shop drawing submittals shall show layout, spacing, sizes, thicknesses and types of cold-formed metal framing, fabrication, and fastening and anchorage details, including mechanical fasteners. Show reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details and attachment to adjoining work.
- 6.6 Shop drawings, design calculations and other structural data shall be prepared and sealed by a qualified engineer. The Structural Engineer shall be legally qualified to practice in the jurisdiction where the project is located and shall be experienced in providing engineering services of the kind indicated.
- 6.7 All framing components shall be cut square for attachment to perpendicular members or as required for an angular fit against abutting members. All load bearing stud/walls shall be factory assembled into panels with studs bearing square and fully in top and bottom tracks.
- 6.8 Fastening components shall be by self-drilling screws or by welding as defined below UNO on the drawings.
- 6.9 Screwed connections:
  - a. Screws shall be type S-12 or type S-4 for all framing members per manufacturer's recommendations.
  - b. A minimum of three (3) exposed threads shall penetrate through at joined materials.
  - c. Corrosion-resistant cadmium-plated screws shall be used for screws attaching metal lath, masonry ties, and other exterior materials.
- 6.10 Welded connections:
  - a. Gas metal arc welding (GMAW) shall be used for 20 ga. Or lighter members. AWS-E70S-3, E-70S-E, E-70S-6 wire electrodes .030"-.035" diameter shall be used with carbon dioxide, argon-oxygen or argon-carbon dioxide shielding. Welding equipment 60-100 amperes at 25 volts using 220-volt 3-phase electric service.
  - b. Shielded metal arc welding (SMAW) shall be used for 18 ga. and heavier members. AWS E-6012, E-6013, or E-7014 electrodes of 3/32" or 1/8" diameter shall be used. Welding equipment heat setting shall be varied dependent on material thickness.
  - c. All welds shall be touched up with zinc rich paint, or paint similar to that used by the framing member manufacturer.
- 6.11 Alignment of studs (plumbness) and walls (straightness) shall be within 1/800 of their respective heights and lengths.
- 6.12 Studs shall be plumbed, aligned, and securely attached to top and bottom runners. Splices in studs are not permitted.

6.13 Where manufacturer's recommendations for erection, attachment, assembly, bracing, alignment, or other installation, or assembly requirements are more stringent than indicated in these drawings, the manufacturer's recommendations shall apply.

STEEL THICKNESS						
Gauge	Mils	Design Thickness		Minimum Thickness		Yield Strength ksi
		Inches	mm	Inches	mm	
20	33	0.0346	0.879	0.0329	0.836	33
18	43	0.0451	1.146	0.0428	1.087	33
16	54	0.0566	1.438	0.0538	1.367	50
14	68	0.0713	1.811	0.0677	1.720	50
12	97	0.1017	2.583	0.0966	2.454	50

7.0 STRUCTURAL STEEL:

- 7.1 All structural steel shall be of the grades indicated below, unless noted otherwise on plans or details.  
Rolled shapes ASTM A992 Gr. 50  
Steel pipe ASTM A53, Type E or S, Grade B, Fy-35ksi  
Structural tubing ASTM A500, Grade C, Fy-50ksi  
Plates and bars ASTM A36 U.N.O.  
Anchor rods ASTM F1554, Grade 36 U.N.O.  
Miscellaneous ASTM A36 U.N.O.
- 7.2 All structural steel shall be detailed, fabricated and erected in accordance with the AISC Code of Standard Practice. The fabricator is responsible for the design of connections not shown on the structural drawings. For the purpose of the connection design, the fabricator shall retain a professional engineer registered in the state where the project is located. The engineer shall seal and sign each shop drawing containing connection design. A note shall accompany the drawings stating that the seal is for "Connection Design Only".
- 7.3 Connection Design:
  - a. Generally, connections shown on the drawings are schematic and are intended to show the relationship of the members.
  - b. Connections shall be designed for one-half (1/2) the allowable uniform load on the member, as defined in Part 5, "Allowable Loads on Beams" tables in the AISC "Manual of Steel Construction", 14th Edition, See plan notes for design methodology and minimum reactions.
- 7.4 Bolted connections:
  - a. Bearing type connections shall be snug tight with A325N or A490N bolts, U.N.O. Oversized and long-slotted holes are NOT permitted U.N.O. At single shear plate connections, provide bearing type fasteners with horizontal short slotted holes. All bolts shall be snug tight. DO NOT over torque bolts.
  - b. Prefruting bolt heads, shafts or nuts shall not extend nor prohibit the application of architectural finishes or placement of steel deck at its correct location and elevation.
  - c. Connection designer is responsible for verifying the axial capacity after a section is reduced for bolt holes. Member size may be increased or plates added to maintain required capacity.
  - d. Bolted connections shall be assembled and inspected in accordance with RCSC-2009 (Specification for Structural Steel Joists Using High-Strength Bolts).
- 7.5 Welded connections:
  - a. All welding shall be in accordance with the "Structural Welding Code - Steel" (AWS D1.1) of the American Welding Society, Latest Edition.
  - b. Electrodes for welding shall comply with the requirements of Table 4.1.1 of the AWS code.
  - c. At Moment Connections and Brace Frames Provide filler Metal that has a minimum CVN Toughness of 20 ft-lbs at minus 20 degrees F. As determined by AWS classification or Manufacturer Certification.
  - d. Proof of welder certification shall be available at the job site during times of inspection.
- 7.6 Minimum plate thickness shall be 3/8" U.N.O., minimum bolt diameter shall be 3/4-inch U.N.O.; minimum shop weld shall be 3/16" and minimum field weld shall be 1/4-inch U.N.O.
- 7.7 All re-entrant corners (such as copes and blocks) shall be cut and shaped notch free with a radius of at least 1/2-inch.

8.0 STEEL JOISTS:

- 8.1 All steel joists shall be designed, fabricated, and erected in accordance with the SJI Specifications.
- 8.2 Joist ends shall be fixed and bridging shall be placed prior to application of any loads.
- 8.3 End Support:
  - a. Minimum bearing requirements shall be in accordance with the SJI Specification. Extended joist ends for bearing on masonry shall be provided by the joist manufacturer where required to accommodate bearing conditions shown on the drawings.
  - b. K Series joists shall be welded to supports with 3/8" fillet welds, one each side, 2" long.
  - c. Bolt joists as indicated below to structural steel supports at column centerlines or where joists do not space on centerlines, bolt connections for each joist adjacent to centerline, K Series: 2 @ 3/8" diameter bolts (minimum).
- 8.4 Joist bridging:
  - a. Shall be placed in accordance with the SJI Specification U.N.O. and shall be horizontal rods or angles at top & bottom chords for all K Series joists.
  - b. Bridging that terminates at or is interrupted by structural steel members, shall be welded or bolted thereto. Provide diagonal ("X") bridging for ends of bridging lines terminating at walls/beams.
- 8.5 Holes in joist chords are not permitted, except at bearing and bolted connections.
- 8.6 All joists (40) forty feet and longer shall require a row of bolted bridging to be in place before slackening of hoisting lines.

9.0 STEEL DECK:

- 9.1 Steel roof deck shall be galvanized, Type B, 1/2" deep, 20 gauge, U.N.O.  
Steel roof deck shall be galvanized, Type N, 2" deep, 22 gauge, U.N.O.
- 9.2 For steel roof deck spans, mechanically fasten side laps at mid-span using "Buldox", self-lapping TEKS No. 10 or larger machine screws or as noted on plan.  
Provide additional sidelap fasteners where noted on plan.  
Fasten roof deck to supporting members as noted on plan.
- 9.3 Do not hang pipes or ducts from steel roof deck. Fasten roof deck to supporting members as noted on plan.
- 9.4 COMPOSITE FLOOR DECK:
  - a. Deck shall be 2" - 20 gauge, galvanized, composite floor deck, Vulcraft 2VL20 or approved equal.
  - b. Deck shall be galvanized per ASTM A924-94 (G60)
  - c. Fasten composite floor deck to supporting members by not less than 2" puddle welds or elongated welds of equal perimeter, spaced not more than 12" o.c. with a minimum 2 welds per unit at each support.
  - d. Mechanically Fasten Side laps and perimeter edges of panels between supports using "Buldox", self lapping TEKS No. 10 or larger carbon screws at interval not exceeding the lesser of half the span or 36 inches.

10.0 COMPOSITE BEAMS:

- 10.1 Composite beams and girders DO NOT require temporary shoring for construction loads (wet concrete + 20 psf) U.N.O on the drawings. Contractor is responsible for verifying the construction load imposed on the structure. Where questions as to capacity arise, Contractor shall inform the Structural Engineer prior to proceeding with any work.
- 10.2 See details on S1.2 for typical stud layouts.
- 10.3 The number of shear connectors (studs) shown is based upon obtaining the full horizontal shear capacity indicated on the AISC "Load and Resistance Factor Design Specification for Steel Buildings" (LRFD) Chapter "11" for each stud for the strength and density of concrete where used. See composite steel deck notes also.
- 10.4 Studs shall be 3/2" diameter and shall extend not less than 1/2" above the top of the steel deck and shall not have less than 1/2" concrete cover above top of stud after welding and shall conform to ASTM A1008.
- 10.5 The number of studs on a beam or between any two connections along a beam is shown on the drawings. Spacing of studs within the length shown shall be as uniform as possible.
- 10.6 No shop paint shall be applied to any studs nor to top flanges or surfaces of members receiving field welds.
- 10.7 Stud capacity varies with the type and length of the stud and with the properties of the composite deck. The deck supplier shall provide deck with a configuration that does not reduce the stud capacity per AISC requirements.
- 10.8 Stud type, length, shear value and detailed layout shall be submitted with the composite metal deck shop drawings.
- 10.9 Break ceramic ferrules (arc shields) loose and remove from deck.
- 10.10 A stud shear connector welded through the metal deck may take the place of a 3/2" puddle weld in order to secure the deck to the steel framing. Do not weld shear connectors through two layers (lapped ends) of deck units.

11.0 SHOP DRAWING SUBMITTAL:

- 11.1 See Project Manual
- 11.2 Contractor shall submit Electronic copies (PDF format) of each shop drawing for review. Shop drawings shall be reviewed by the Contractor prior to submission to the Engineer. The Contractor shall allow 10 working days for shop drawing approval.

12.0 CONSTRUCTION AND SAFETY:

- 12.1 Woods Engineering P.A.'s responsibility is limited to the details and information shown on these drawings. It is the responsibility of the Contractor to provide adequate safety measures required by local codes as well as OSHA Standards for the Construction Industry. This should include, but not be limited to the following:  
Shoring to protect new as well as existing structures.  
Necessary Scaffolding.  
Material Handling Equipment.  
Trench Boxing.
- 12.2 SPECIAL INSPECTIONS:  
Refer to Sheet S1.02 and S1.03 for all Special Inspections requirements.

ABBREVIATIONS

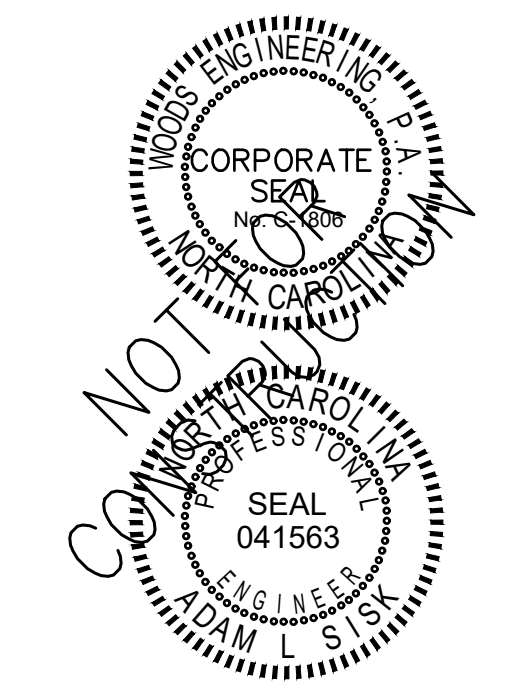
@	AT	HT	HIP TRUSS
&	AND	IFM	INSIDE FACE OF MASONRY
AB	ANCHOR BOLTS	INT	INTERIOR
ACC	AMERICAN CONCRETE INSTITUTE	JBE	JOIST BEARING ELEVATION
ADDL	ADDITIONAL	JT	JOINT
AFF	ABOVE FINISHED FLOOR		



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**Statement of Special Inspections**

Project: Strikes Entertainment Complex  
Location: Wilmington, NC  
Owner's Representative: Strikes, LLC - David Edmunds  
Owner's Address: 4927 Oleander Drive

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection requirements of the 2018 North Carolina State Building Code. It includes a Schedule of Special Inspection Services applicable to this project, the name of the Special Inspector, the identity of other approved agencies retained for conducting Special Inspections, and the required inspector qualifications. This Statement of Special Inspections was prepared by the following Designers of Record:

Structural	Adam Sisk	(Signature)	11/21/2025
Architectural		(Signature)	(Date)
Mechanical		(Signature)	(Date)
Other		(Signature)	(Date)

The Special Inspector shall keep records of all special inspections and tests and shall furnish reports to the State Construction Office and the Designers of Record. Reports shall indicate if the work inspected or tested was or was not completed in conformance with the approved construction documents. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the State Construction Office and the Designers of Record. The Special Inspections program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the State Construction Office, Owner, and the Designers of Record.

Interim Report Frequency: Monthly

A Final Report of Special Inspections documenting completion of all required Special Inspections, testing, and correction of any discrepancies should be submitted prior to issuance of a Certificate of Use and Occupancy.

Job Site safety and means and methods of construction are solely the responsibility of the Contractor.

Owner's Authorization Accepted by:

Signature Date Signature Date

**Schedule of Special Inspection Services.**

The following sheets comprise the required schedule of special inspections for this project. The construction divisions which require special inspections for this project are as follows.

- Structural Steel & High Strength Bolting
- Welding of Structural Steel
- Cold-Formed Steel Deck
- Open-Web Steel Joists & Joist Girders
- Cold-Formed Steel Framing
- Concrete Construction
- Masonry Construction
- Wood Construction
- Soils
- Driven Deep Foundations
- Cast-in-Place Deep Foundations
- Helical Pile Foundations
- Ramped Aggregate Piers & Stone Columns
- Sprayed Fire-Resistant Material
- Mastic & Intumescent Fire-Resistant Coatings
- Exterior Insulation & Finish System
- Fire-Resistant Penetrations & Joints
- Smoke Control
- Retaining Wall & Systems > 5 Feet
- Special Inspections for Wind Resistance
- Special Inspections for Seismic Resistance

a. The inspection frequency indicated on the following inspection tables are "C" continuous, "P" periodic, & "O" random on a daily basis.  
b. Level A is the minimum inspection program for empirically / prescriptively designed masonry in Risk Category I, II or III structures.  
Level B is the minimum inspection program for empirically / prescriptively designed masonry in Risk Category IV structures and engineered masonry in Risk Category I, II or III structures. Level C is the minimum inspection program for engineered masonry in Risk Category IV structures. Engineered masonry structures are those designed in accordance with portions of the TMS 602-13 / ACI 530-13/ASCE 5-13 other than Part 4 or Appendix A.

Inspection Agents	Firm Name & Point of Contact	Address / Phone / E-mail
1. Special Inspector (SI-1)		
2. Testing Agency (TA-1)		
3. Testing Agency (TA-2)		
4. Geotechnical Engineer (GE-1)		
5. Other (O-1)		

Note: The inspection and testing agent(s) shall be engaged by the Owner or the Registered Design Professional of Record acting as the Owner's agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the State Construction Office, prior to commencing work.

Seismic Design Category:  A  B  C  D  N/A

Basic Wind Speed (Vasd):  90-109mph  110-119mph  ≥120mph N/A

Wind Exposure Category:  B  C  D  N/A

**Schedule of Special Inspection Services  
Structural Steel and High-Strength Bolting**

Inspection Task	Task Req'd	Freq	Reference for Criteria	Agent
			AISC 360 NCBC	
1. Fabricator Certification / Verification of Quality Control Procedures	<input checked="" type="checkbox"/>	C	1704.2.5.1	
a. Verify fabricator qualifications	<input checked="" type="checkbox"/>	C	1704.2.5.1	
b. Review material test reports & certifications	<input checked="" type="checkbox"/>	C	N5.2	
c. Collect certificates of compliance from the steel fabricator at completion of fabrication	<input checked="" type="checkbox"/>	C	1704.5	
2. Inspections Prior to High-Strength Bolting at Pretensioned and Slip-Critical Joints				
a. Collect manufacturer's certifications for fastener materials	<input checked="" type="checkbox"/>	C	Table (Tb) N5.6-1	
b. Fasteners are marked per ASTM requirements	<input checked="" type="checkbox"/>	P	Tbl N5.6-1	
c. Ensure correct fasteners and bolting procedures are selected for joint details	<input checked="" type="checkbox"/>	P	Tbl N5.6-1	
d. Verify connecting elements, including the appropriate laying surface condition and hole preparation when specified, comply with the construction documents	<input checked="" type="checkbox"/>	P	Tbl N5.6-1	
e. Observe and document pre-installation verification testing by installation personnel for fastener assemblies and methods	<input checked="" type="checkbox"/>	P	Tbl N5.6-1	
f. Verify proper storage provided for all fastener components	<input checked="" type="checkbox"/>	P	Tbl N5.6-1	
3. Inspections During High-Strength Bolting at Pretensioned and Slip-Critical Joints				
a. Ensure correct fastener assemblies placed in all holes and washers, when specified, are positioned as required	<input checked="" type="checkbox"/>	P	Tbl N5.6-2	
b. Verify joint brought to snug-tight condition prior to pretensioning	<input checked="" type="checkbox"/>	P	Tbl N5.6-2	
c. Verify fastener components not turned by the wrench prevented from rotating	<input checked="" type="checkbox"/>	P	Tbl N5.6-2	
d. Ensure fasteners are pretensioned in accordance with RSCC, progressing from the most rigid point towards free edges	<input checked="" type="checkbox"/>	P	Tbl N5.6-2	
4. Document acceptance or rejection of bolted connections after high-strength bolting is complete	<input checked="" type="checkbox"/>	C	Tbl N5.6-3	
5. Structural Details				
a. Verify diameter, grade, type and length of anchor rods and other embedded items supporting structural steel	<input checked="" type="checkbox"/>	P	N5.7	
b. Inspection of fabricated assemblies & erected steel framing verifying compliance with the construction documents	<input checked="" type="checkbox"/>	P	N5.7	
6. Composite Construction				
a. Verify placement & installation of steel deck	<input checked="" type="checkbox"/>	P	Tbl N6.1	
b. Observe placement and installation of steel headed stud anchors	<input checked="" type="checkbox"/>	P	Tbl N6.1	
c. Document acceptance or rejection of composite construction elements	<input checked="" type="checkbox"/>	P	Tbl N6.1	

**Schedule of Special Inspection Services  
Welding of Structural Steel**

Inspection Task	Task Req'd	Freq	Code Reference	Agent
			AISC 360 NCBC	
1. Inspections Prior to Welding				
a. Collect & review welding procedure specification (WPS) and verify manufacturer certifications for welding consumables	<input checked="" type="checkbox"/>	C	Table (Tb) N5.4-1	
b. Confirm weld material type & grade	<input checked="" type="checkbox"/>	P	Tbl N5.4-1	
c. Confirm method of welder identification	<input checked="" type="checkbox"/>	P	Tbl N5.4-1	
d. Inspection of fit-up for groove & fillet welds including access hole configuration & finish	<input checked="" type="checkbox"/>	P	Tbl N5.4-1	
2. Inspections During Welding				
a. Verify welder qualifications	<input checked="" type="checkbox"/>	P	Tbl N5.4-2	
b. Verify proper control and handling of welding consumables	<input checked="" type="checkbox"/>	P	Tbl N5.4-2	
c. Monitor environmental conditions	<input checked="" type="checkbox"/>	P	Tbl N5.4-2	
d. Monitor proper implementation of WPS	<input checked="" type="checkbox"/>	P	Tbl N5.4-2	
e. Inspection of welding techniques including no welding over cracked lack welds	<input checked="" type="checkbox"/>	P	Tbl N5.4-2	
3. Inspections After Welding				
a. Verify welds have been cleaned	<input checked="" type="checkbox"/>	P	N5.4, N5.5	
b. Confirm the installed size, length and location of welds matches the contract documents	<input checked="" type="checkbox"/>	C	Tbl N5.4-3	
c. Verify welds meet visual acceptance criteria	<input checked="" type="checkbox"/>	C	Tbl N5.4-3	
d. Confirm arc strikes comply with Part 5.28 of AWS D1.1	<input checked="" type="checkbox"/>	C	Tbl N5.4-3	
e. Visually observe web k-area for cracks within 3" of welded doubler plates, continuity plates and stiffeners	<input checked="" type="checkbox"/>	C	Tbl N5.4-3	
f. Backing and weld tabs removed per contract documents	<input checked="" type="checkbox"/>	C	Tbl N5.4-3	
g. Observe and inspect weld repair activities	<input checked="" type="checkbox"/>	C	Tbl N5.4-3	
h. For Risk Category III or IV structures, conduct ultrasonic testing (UT) of CJP groove welds in materials ≥ 5/16" at butt, T- and corner joints subject to transversely applied tension loading	<input type="checkbox"/>	C	N.5.5b, N5.5e	
i. For Risk Category II structures, conduct ultrasonic testing (UT) of CJP groove welds in materials ≥ 5/16" at butt, T- and corner joints subject to transversely applied tension loading	<input checked="" type="checkbox"/>	P	N.5.5b, N5.5f	
j. Conduct magnetic particle testing (MT) or liquid penetrant testing (PT) at thermally cut surfaces of access holes for rolled section with t > 2" and built-up shape with tw > 2"	<input type="checkbox"/>	C	N5.5c	
k. Radiographic or ultrasonic inspection at joints subject to fatigue	<input type="checkbox"/>	C	N5.5d, Tbl A-3.1	
l. Document acceptance / rejection of welded joints and members	<input checked="" type="checkbox"/>	C	Tbl N5.4-3, N5.5g	

**Schedule of Special Inspection Services  
Cold-Formed Steel Deck**

Inspection Task	Task Req'd	Freq	Reference for Criteria	Agent
			SDI OA/QC NCBC	
1. Prior to deck placement, verify deck and deck accessories comply with the construction documents	<input checked="" type="checkbox"/>	C	Table (Tb) 1.1	
2. Inspection Tasks After Deck Placement				
a. Verify the installation of deck & deck accessories complies with the construction documents	<input checked="" type="checkbox"/>	C	Tbl 1.2	
b. Verify that deck materials' mill certifications comply with the construction documents	<input checked="" type="checkbox"/>	C	Tbl 1.2	
3. Inspection Tasks Prior to Deck Welding				
a. Collect welding procedure specification (WPS)	<input checked="" type="checkbox"/>	P	Tbl 1.3	
b. Collect manufacturer certifications for welding consumables	<input checked="" type="checkbox"/>	P	Tbl 1.3	
c. Verify material type and grade	<input checked="" type="checkbox"/>	P	Tbl 1.3	
d. Check welding equipment	<input checked="" type="checkbox"/>	P	Tbl 1.3	
4. Inspection Tasks During Deck Welding				
a. Verify welder qualifications	<input checked="" type="checkbox"/>	P	Tbl 1.4	
b. Verify proper control and handling of welding consumables	<input checked="" type="checkbox"/>	P	Tbl 1.4	
c. Monitor environmental conditions	<input checked="" type="checkbox"/>	P	Tbl 1.4	
d. Monitor proper implementation of WPS	<input checked="" type="checkbox"/>	P	Tbl 1.4	
5. Inspection Tasks After Welding				
a. Verify size and location of welds, including support, sidelap and perimeter welds	<input checked="" type="checkbox"/>	C	Tbl 1.5	
b. Verify welds meet visual acceptance criteria	<input checked="" type="checkbox"/>	C	Tbl 1.5	
c. Observe weld repair activities	<input checked="" type="checkbox"/>	C	Tbl 1.5	
6. Inspection Tasks Prior to Mechanical Fastening				
a. Verify manufacturer installation instructions available for mechanical fasteners	<input checked="" type="checkbox"/>	P	Tbl 1.6	
b. Proper tools available for fastener installation	<input checked="" type="checkbox"/>	P	Tbl 1.6	
c. Verify proper storage of mechanical fasteners	<input checked="" type="checkbox"/>	P	Tbl 1.6	
7. Inspection Tasks During Mechanical Fastening				
a. Observe fastener spacing and position	<input checked="" type="checkbox"/>	P	Tbl 1.7	
b. Verify fasteners are installed in accordance with manufacturer's instructions	<input checked="" type="checkbox"/>	P	Tbl 1.7	
8. Inspection Tasks After Mechanical Fastening				
a. Check spacing, type and installation of support fasteners	<input checked="" type="checkbox"/>	C	Tbl 1.8	
b. Check spacing, type, and installation of sidelap fasteners	<input checked="" type="checkbox"/>	C	Tbl 1.8	
c. Check spacing, type, and installation of perimeter fasteners	<input checked="" type="checkbox"/>	C	Tbl 1.8	
d. Verify repair activities	<input checked="" type="checkbox"/>	C	Tbl 1.8	
9. Document acceptance or rejection of deck & deck accessories for all phases of construction	<input checked="" type="checkbox"/>	C	Tbls 1.1 thru 1.8	

**Schedule of Special Inspection Services  
Open-Web Steel Joists and Joist Girders**

Inspection Task	Task Req'd	Freq	Reference for Criteria	Agent
			Standard NCBC	
1. Fabricator Certification / Verification of Quality Control Procedures	<input checked="" type="checkbox"/>	C	1704.2.5.1	
a. Verify fabricator qualifications	<input checked="" type="checkbox"/>	C	1704.2.5.1	
b. Collect certificate of compliance from steel joist producer at completion of manufacture	<input checked="" type="checkbox"/>	C	1704.5, 2207.5	
2. Observe bolted and welded joint end connections	<input checked="" type="checkbox"/>	P	Table (Tb) 1705.2.3	
			SJI-K 5.3, 5.6, SJI-LH, DLH 104.4, 104.7, SJI-JG 1004.4, 1004.6, SJI-CJ 104.4, 104.7	
3. Verify size, spacing and connection of standard horizontal and diagonal bridging	<input checked="" type="checkbox"/>	P	Tbl 1705.2.3	
			SJI-K 5.4, SJI-LH, DLH 104.5, SJI-JG 1004.5, 1004.9, SJI-CJ 104.6	
4. Verify size, spacing and connection of bridging that differs from the SJI specifications listed by Part 2207.1 of the NCBC	<input checked="" type="checkbox"/>	P	Tbl 1705.2.3	

**Schedule of Special Inspection Services  
Cold-Formed Steel Framing**

Inspection Task	Task Req'd	Freq	Reference for Criteria	Agent
			Standard NCBC	
1. Fabricator Certification / Verification of Quality Control Procedures	<input checked="" type="checkbox"/>	C	1704.2.5.1	
a. Verify fabricator qualifications	<input checked="" type="checkbox"/>	C	1704.2.5.1	
b. Collect certificates of compliance from the steel fabricator at completion of fabrication	<input checked="" type="checkbox"/>	C	1704.5	
2. For trusses clear spanning 60 feet or more, verify that both temporary and permanent restraints and braces are installed in accordance with the approved truss submittal package.	<input type="checkbox"/>	P	1705.2.4	

**Schedule of Special Inspection Services  
Concrete Construction**

Inspection Task	Task Req'd	Freq	Reference for Criteria	Agent
			Standard NCBC	
1. Inspect reinforcement, including prestressing tendons, and verify placement	<input checked="" type="checkbox"/>	P	ACI Ch. 20, 25.2, 25.3, 26.6.1, 26.6.3	1908.4
2. Reinforcing Bar Welding				
e. Verify weldability of reinforcing bars other than ASTM A706 and collect reports	<input checked="" type="checkbox"/>	P	ACI 26.6.4	1704.5
f. Inspect single-pass fillet welds ≤ 5/16"	<input checked="" type="checkbox"/>	P	ACI 26.6.4	
g. Inspect all welds other than single-pass fillet welds ≤ 5/16"	<input checked="" type="checkbox"/>	C	ACI 26.6.4	
3. Concrete Anchors				
a. Inspect anchors cast in concrete	<input checked="" type="checkbox"/>	P	ACI 17.8.2	
b. Inspect adhesive anchors installed in hardened concrete with horizontally or upwardly inclined orientations that resist sustained tension loads	<input checked="" type="checkbox"/>	C	ACI 17.8.2.4	
c. Inspect adhesive anchors installed in hardened concrete with orientations different from Item 3.b	<input checked="" type="checkbox"/>	P	ACI 17.8.2	
d. Inspect mechanical anchors installed in hardened concrete	<input checked="" type="checkbox"/>	P	ACI 17.8.2	
4. Collect mix designs and verify the correct mix used during installation	<input checked="" type="checkbox"/>	P	ACI Ch19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
5. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	<input type="checkbox"/>	C	ASTM C172, ASTM C31, ACI 26.4, 26.12	1908.10
6. Inspect concrete and shotcrete placement for proper application techniques	<input checked="" type="checkbox"/>	C	ACI 26.5	1908.6, 1908.7, 1908.8
7. Collect reports of preconstruction tests for shotcrete when preconstruction tests are required by NCBC Section 1909.4	<input type="checkbox"/>	C		1704.5, 1908.5
8. Verify maintenance of specified curing temperature and techniques	<input checked="" type="checkbox"/>	P	ACI 26.5.3-26.5.5	1908.9
9. Inspections for prestressed concrete				
a. Observe application of prestressing force	<input type="checkbox"/>	C	ACI 26.10	
b. Inspect grouting of bonded prestressing tendons	<input type="checkbox"/>	C	ACI 26.10	
10. Verify concrete strength prior to stressing of PT tendons and prior to removal of shores and forms from PT & mild beams and structural slabs	<input type="checkbox"/>	P	ACI 26.11.2	
11. Inspect erection of precast members	<input type="checkbox"/>	P	ACI 26.8	
12. Inspect formwork for shape, location and dimensions of the concrete member being formed	<input type="checkbox"/>	P	ACI 26.11.1, 2(b)	
13. Collect mill test reports for ASTM A615 rebar used by SFRS special moment frames, special structural walls or coupling beams	<input type="checkbox"/>	C	ACI 20.2.2.5	1704.5

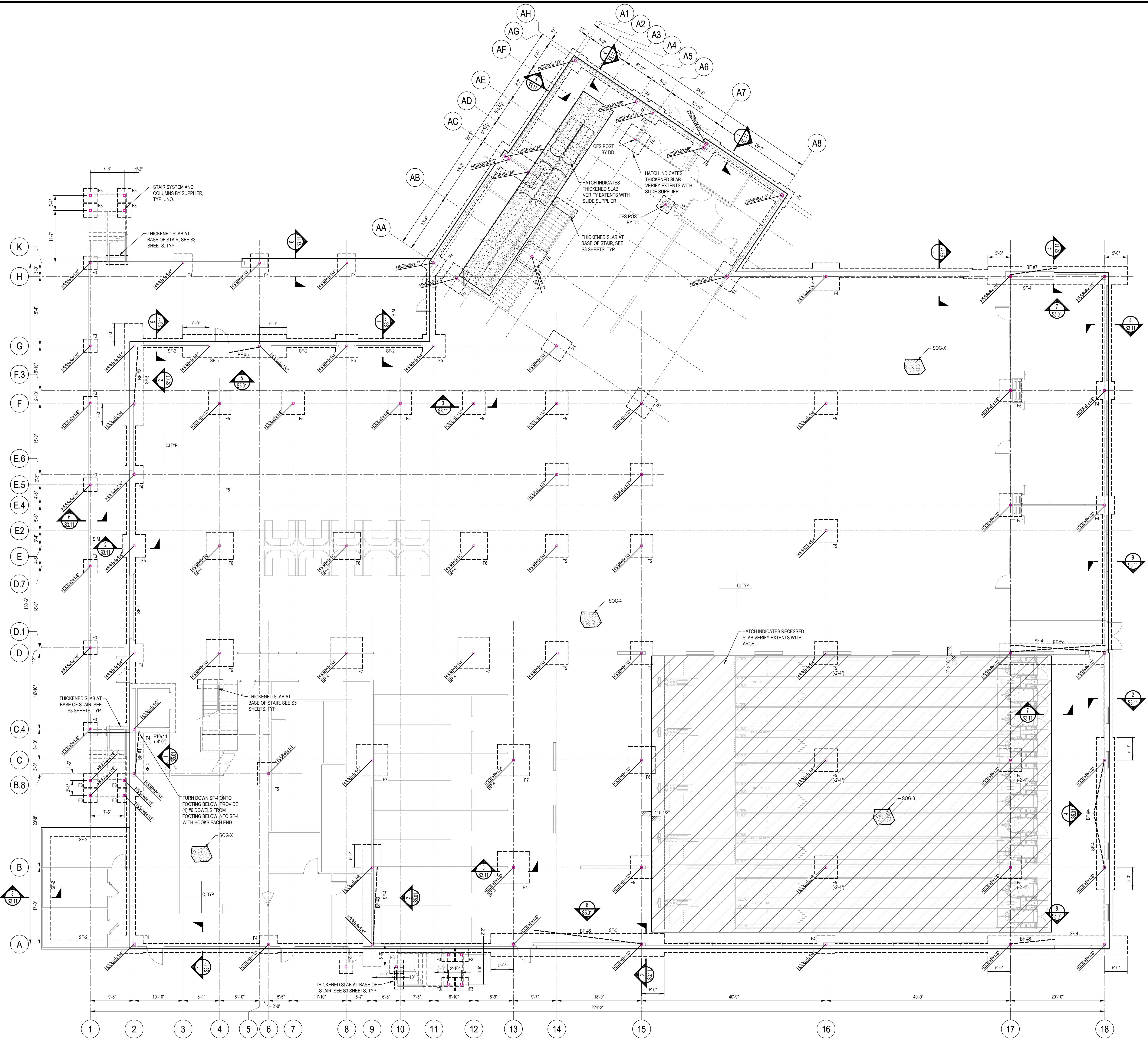
a. References to "ACI" in this table are to the ACI 318-14.

ALL FEDERAL, STATE, AND LOCAL CODES, ORDINANCES, REGULATIONS ETC. SHALL BE CONSIDERED AS PART OF SPECIFICATIONS FOR THIS BUILDING AND SHALL TAKE PREFERENCE OVER ANYTHING SHOWN, DESCRIBED, OR IMPLIED WHERE SAME ARE AT VARIANCE

STRIKES ENTERTAINMENT COMPLEX  
5601 Oleander Drive  
WILMINGTON, NC  
28403

SPECIAL INSPECTIONS





**FOUNDATION PLAN NOTES:**

- SEE S1 SHEETS FOR ADDITIONAL GENERAL NOTES, MATERIAL NOTES AND MATERIAL SPECIFICATIONS. ALSO, SEE S3 SHEETS FOR TYPICAL DETAILS. TYPICAL DETAILS ARE GENERALLY NOT SHOWN ON PLAN BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS.
- DATUM ELEVATION = TOP OF SLAB ELEVATION - ASSUMED 0'-0" (OTHER ELEVATIONS ARE NOTED AS ±) OR 1'-0" FROM DATUM ELEVATION. SEE PLAN FOR ELEVATIONS RELATIVE TO MSL.
- TOP OF FOOTINGS SHALL BE (1'-4") FROM DATUM ELEVATION, U.N.O.
- SEE SLAB-ON-GRADE SCHEDULE S3 SHEETS.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER DISCIPLINE DRAWINGS FOR OPENINGS AND DEPRESSIONS NOT SHOWN ON THESE DRAWINGS.
- RELOCATE ANY UTILITY LINES THAT CONFLICT WITH THE FOUNDATIONS OR DROP THE FOUNDATIONS TO AN ELEVATION BELOW THE PROPOSED UTILITIES. RELOCATE ANY GRAVITY FLOW LINES THAT CONFLICT WITH SPREAD FOOTINGS AS SHOWN ON STRUCTURAL FOUNDATION PLANS. IF A GRAVITY FLOW LINE TRAVELS UNDER A CONTINUOUS STRIP FOOTING EITHER:
  - DROP THE FOOTING ELEVATION BELOW THE PROPOSED LINE.
  - IF THE UTILITY LINE IS < 2'-0" BELOW THE STRIP FOOTING, THEN ENCASE THE LINE IN A STEEL PIPE 2" LARGER IN DIAMETER THAN THE LINE AND EXTEND THE PIPE 1'-0" PAST EACH SIDE OF THE CONCRETE FOOTING. BACKFILL THE TRENCH WITH #87 STONE. THE BEARING CAPACITY OF THIS AREA MUST MEET OR EXCEED THE ALLOWABLE SOIL BEARING CAPACITY.
  - IF THE UTILITY LINE IS ≥ 2'-0" BELOW BOTTOM OF FOOTING, THEN STEEL PIPE IS NOT REQUIRED. BACKFILL THE TRENCH WITH #87 STONE. THE BEARING CAPACITY OF THIS AREA MUST MEET OR EXCEED THE ALLOWABLE SOIL BEARING CAPACITY.
- DIMENSIONS ARE FROM EDGE OF SLAB (E.O.S.) AND OUTSIDE FACE OF STUD (O.F.S.) (CURTAINWALL (O.F.W.) TO COLUMN CENTERLINE UNLESS NOTED OTHERWISE.
- S.F. = STRIP FOOTING, SEE TYPICAL DETAIL ON S3 SHEETS - C.C. TO COORDINATE STEPS IN FOUNDATION FOR PLUMBING, ELECTRICAL, AND MECHANICAL.
- SEE S5 SHEETS FOR SHEARWALL AND BRACE FRAME INFORMATION.
- WHEN A SECTION IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS REGARDLESS OF WHETHER CUT OR LABELED, U.N.O.

**FOUNDATION LEGEND:**

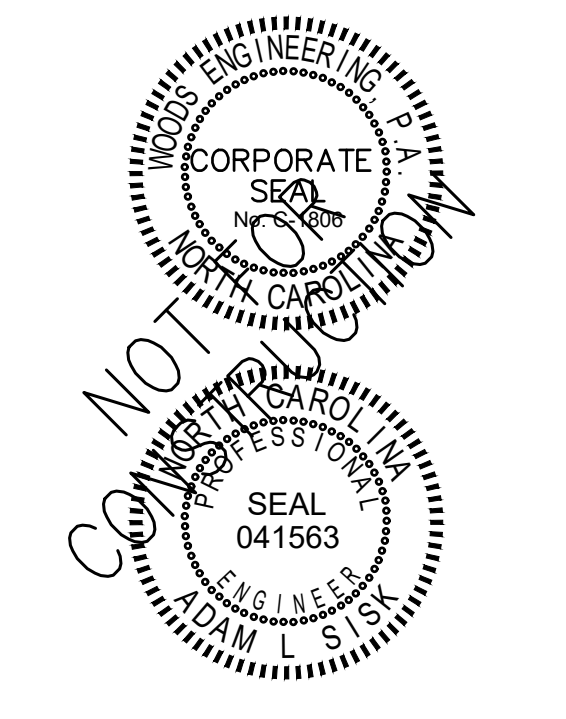
- SPREAD FOOTING DESIGNATION SEE SCHEDULE THIS SHEET
- STRIP FOOTING DESIGNATION SEE SCHEDULE THIS SHEET
- STEEL COLUMN, SEE PLAN FOR SIZE AND LOCATION SEE S3 SHEETS FOR BASE PLATE DETAILS (BP-X)
- INDICATES STEP FOOTING SEE S1 SHEETS FOR TYPICAL DETAILS
- INDICATES CONCRETE SLAB CONTRACTION JOINTS, SEE S1 SHEETS FOR TYPICAL DETAILS. SEE PLAN FOR LOCATIONS. MAXIMUM SPACING = 12' IN BOTH DIRECTIONS
- INDICATES STEEL BRACE LOCATIONS SEE PLAN & SHEET S5 SHEETS
- GRID DESIGNATION FOR CENTERLINE OF COLUMN U.N.O.
- INDICATES STEEL BRACE LOCATIONS SEE PLAN & SHEET S5 SHEETS



Custom Homes,  
Destination Retail Environments  
and Site Planning

Wilmington  
North Carolina

Ph 910  
409-5304



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STRIKES ENTERTAINMENT COMPLEX  
5601 Oleander Drive  
WILMINGTON, NC 28403

FOUNDATION PLAN

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

Date 11/21/2025 Scale As Noted  
Drawn Job  
Sheet

**S2.01**

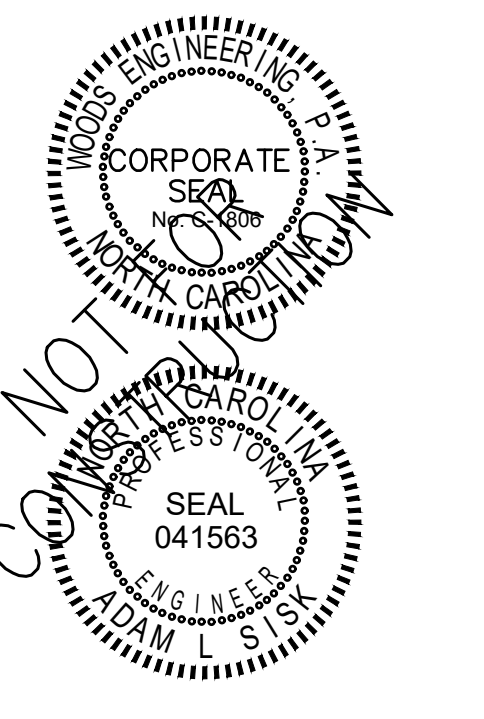




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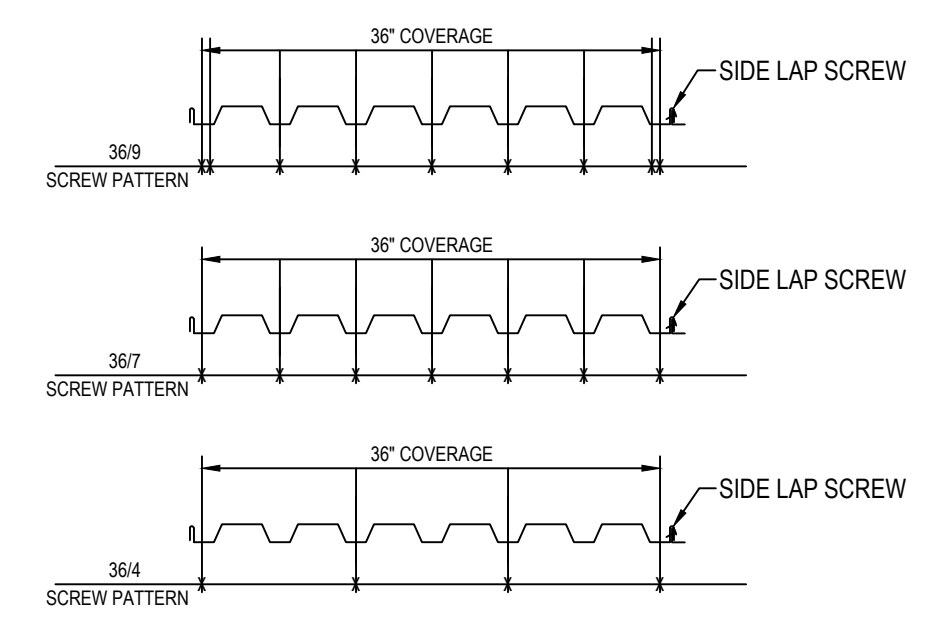
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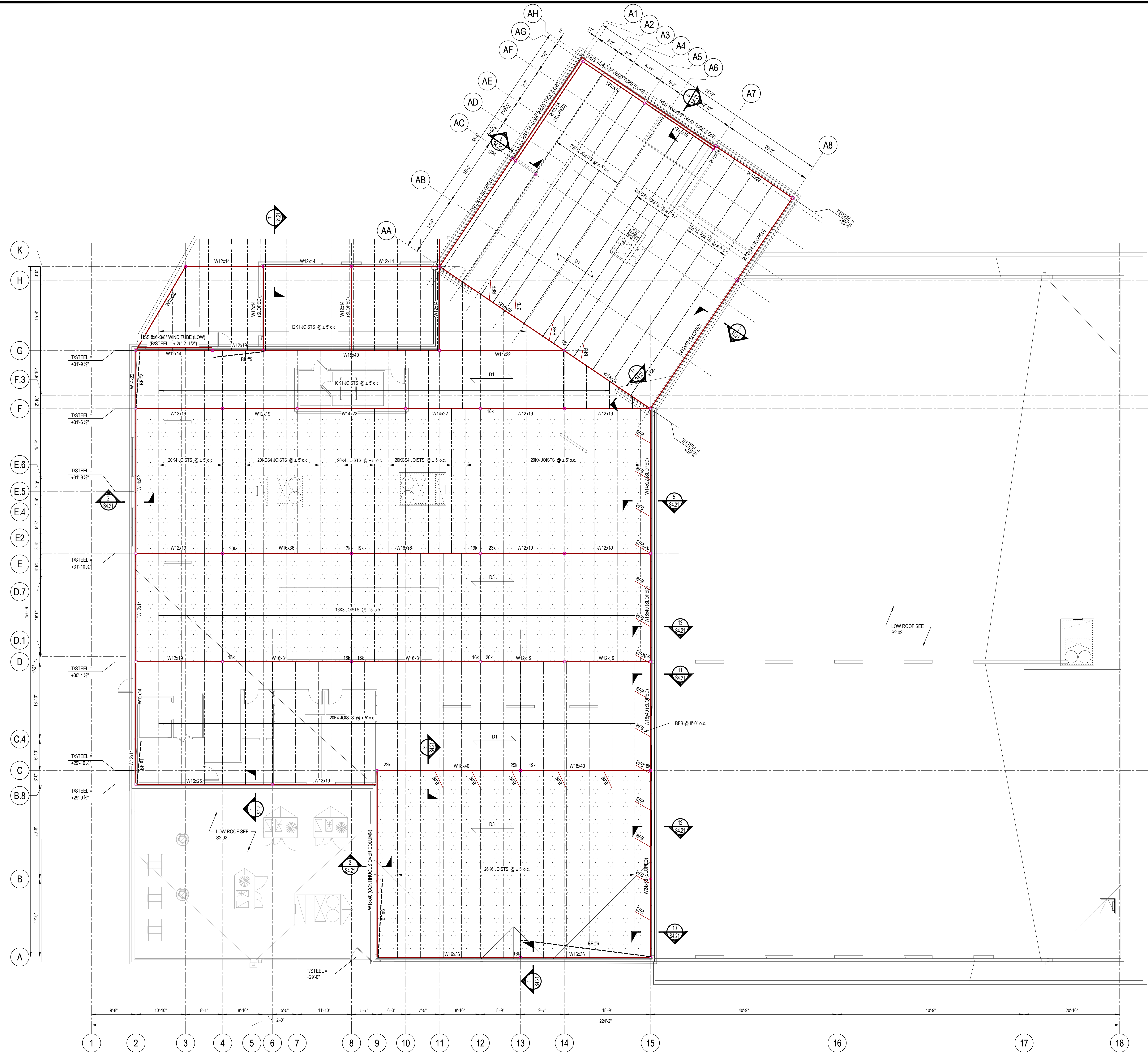
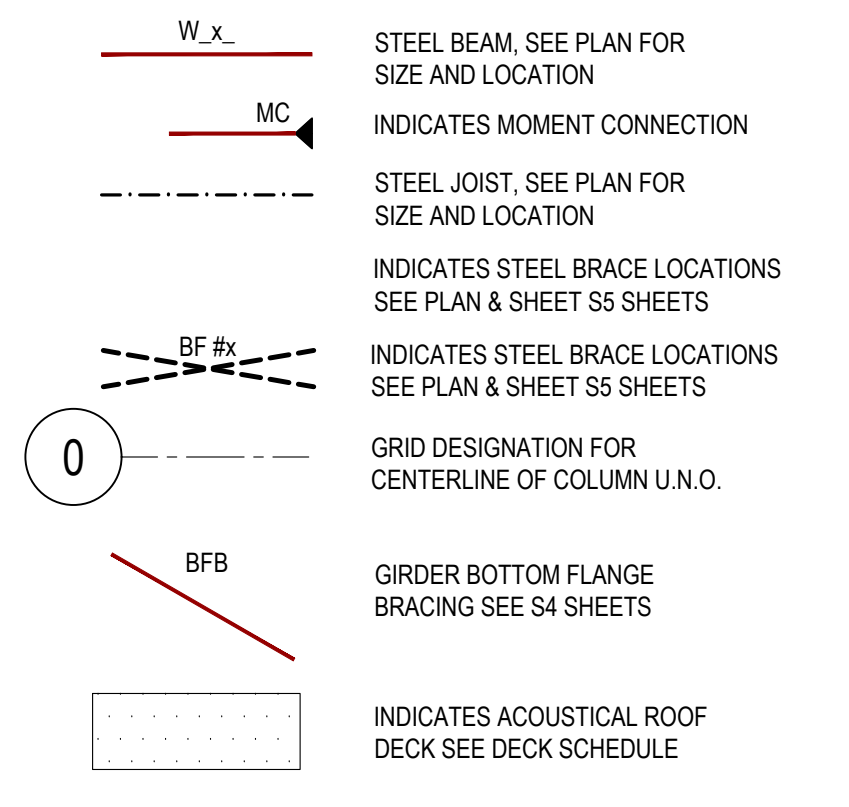
**ROOF FRAMING PLAN NOTES**

- SEE S1 SHEETS FOR ADDITIONAL GENERAL NOTES, MATERIAL NOTES AND MATERIAL SPECIFICATIONS. ALSO, SEE S1 SHEETS FOR TYPICAL DETAILS. TYPICAL DETAILS ARE GENERALLY NOT SHOWN ON PLAN BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS.
- ELEVATIONS SHOWN ON PLAN ARE REFERENCED TO DATUM ELEVATION (0'-0") - SEE S2.01.
- TYPICAL ROOF DECK IS 1/2" DEEP, 20 GA., GALVANIZED, TYPE 'B' METAL ROOF DECK.
- METAL ROOF DECK SHALL BE ATTACHED TO SUPPORTING MEMBERS WITH HILTI X-HSN 24 FOR STEEL THICKNESS EQUAL TO OR LESS THAN 3/8" AND HILTI X-SNP 19 OTHERWISE IN A 3/64" PATTERN U.I.O. ON PLAN - EXCEPT WITHIN 10'-0" OF ROOF EDGE PROVIDE FASTENERS IN A 3/67" PATTERN, PROVIDE (1) HILTI SCC TEK SIDELAP SCREW PER SPAN, U.I.O. ON PLAN.



- ALL JOISTS SHALL BE DESIGNED FOR A NET UPLIFT PRESSURE OF 25 psf.
- PROVIDE JOIST BRIDGING PER SJI RECOMMENDATIONS.
- SEE S5 SHEETS FOR BRACE FRAME INFORMATION.
- WHEN A SECTION IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS REGARDLESS OF WHETHER CUT OR LABELED, U.I.O.

**ROOF FRAMING LEGEND**



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

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ROOF FRAMING PLAN

Date 11/21/2025 Scale As Noted  
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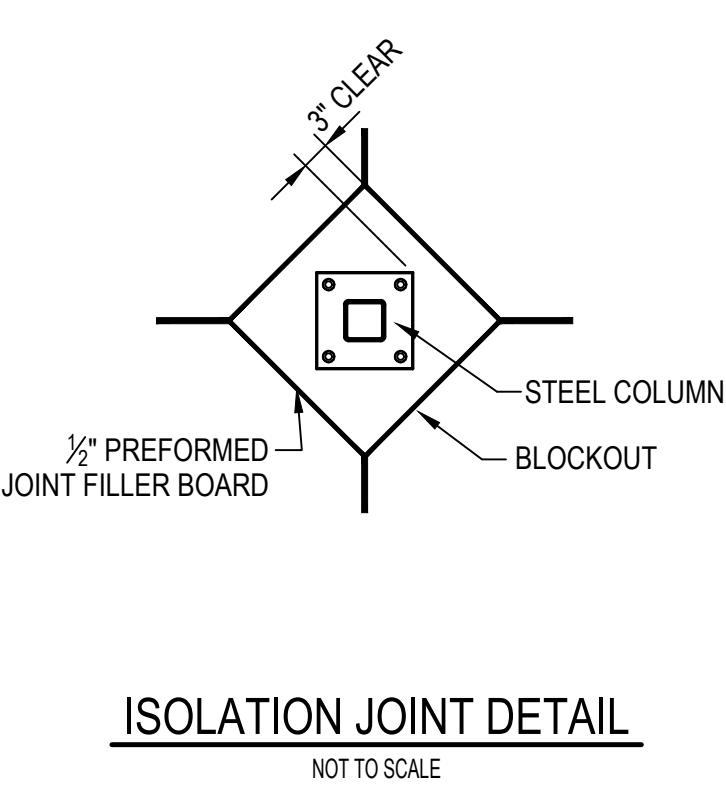
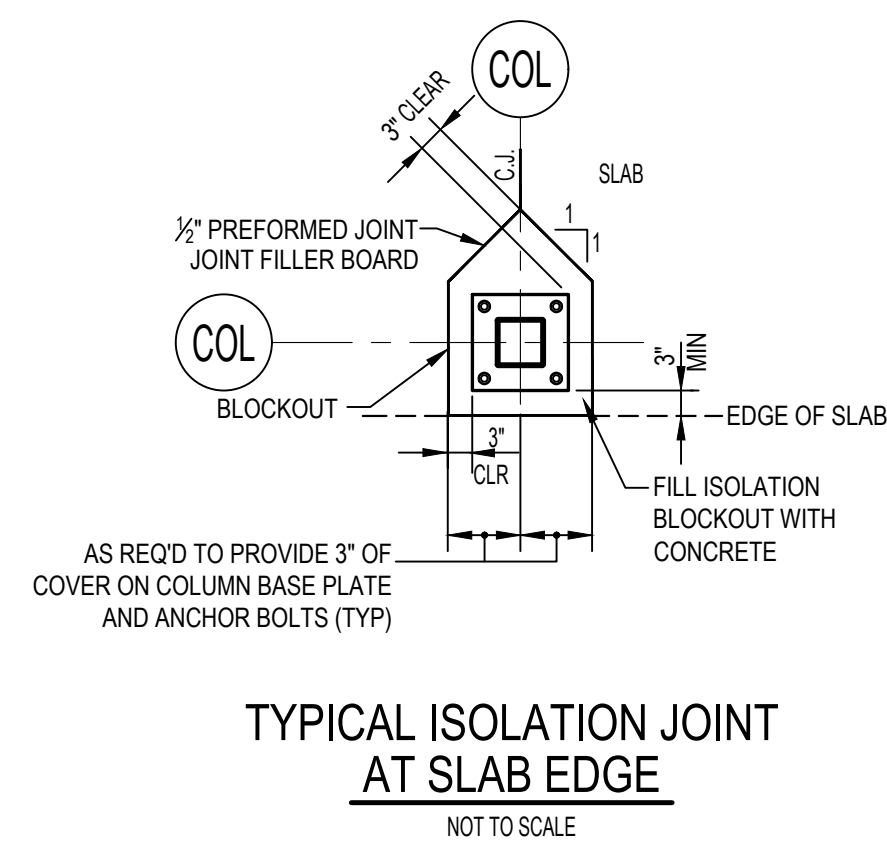
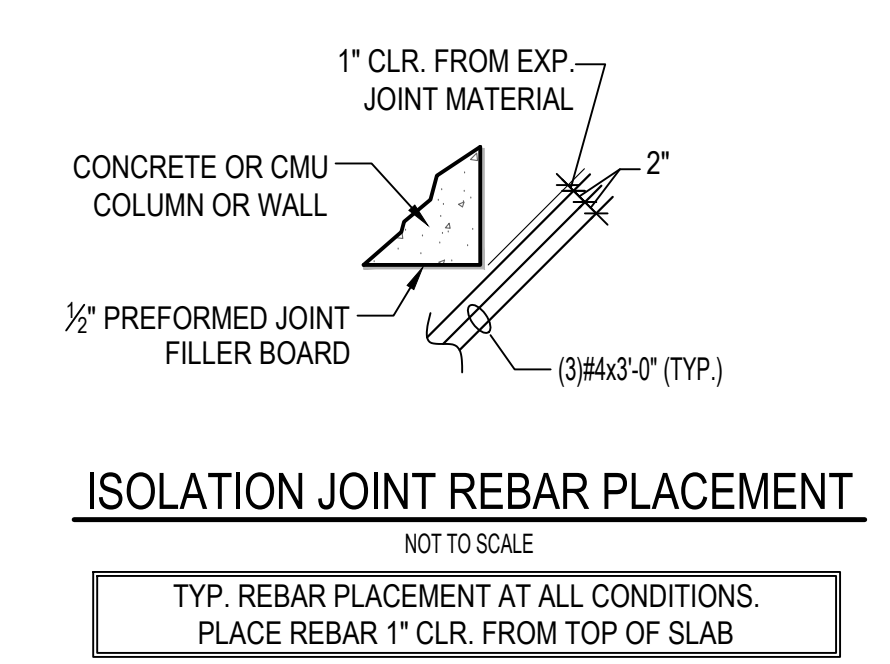
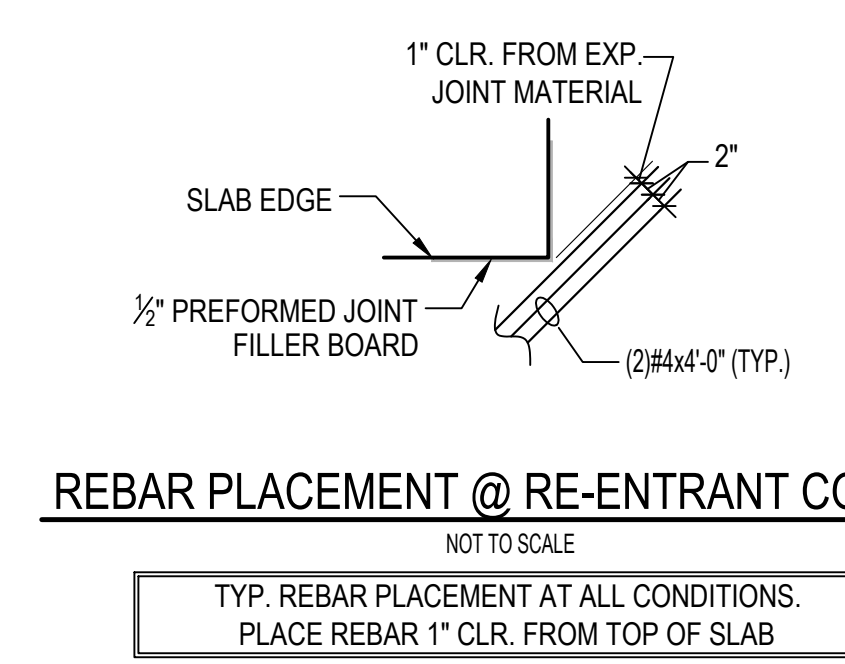
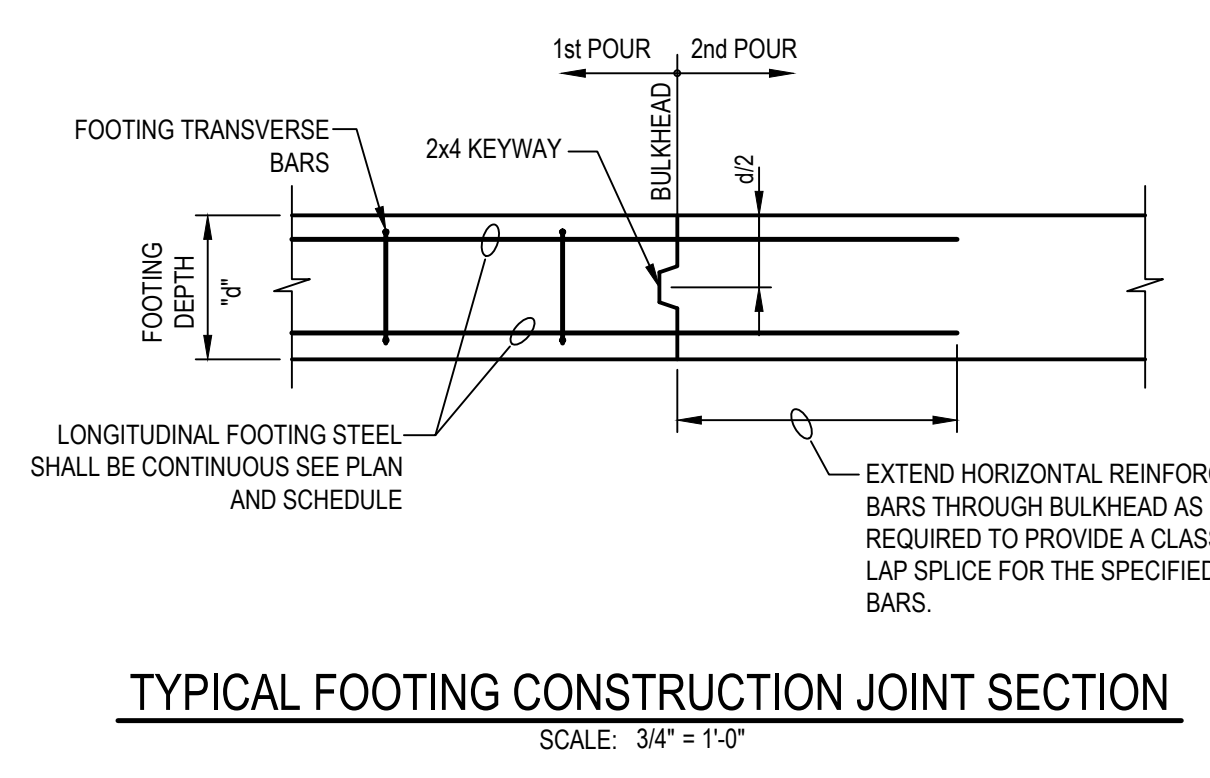
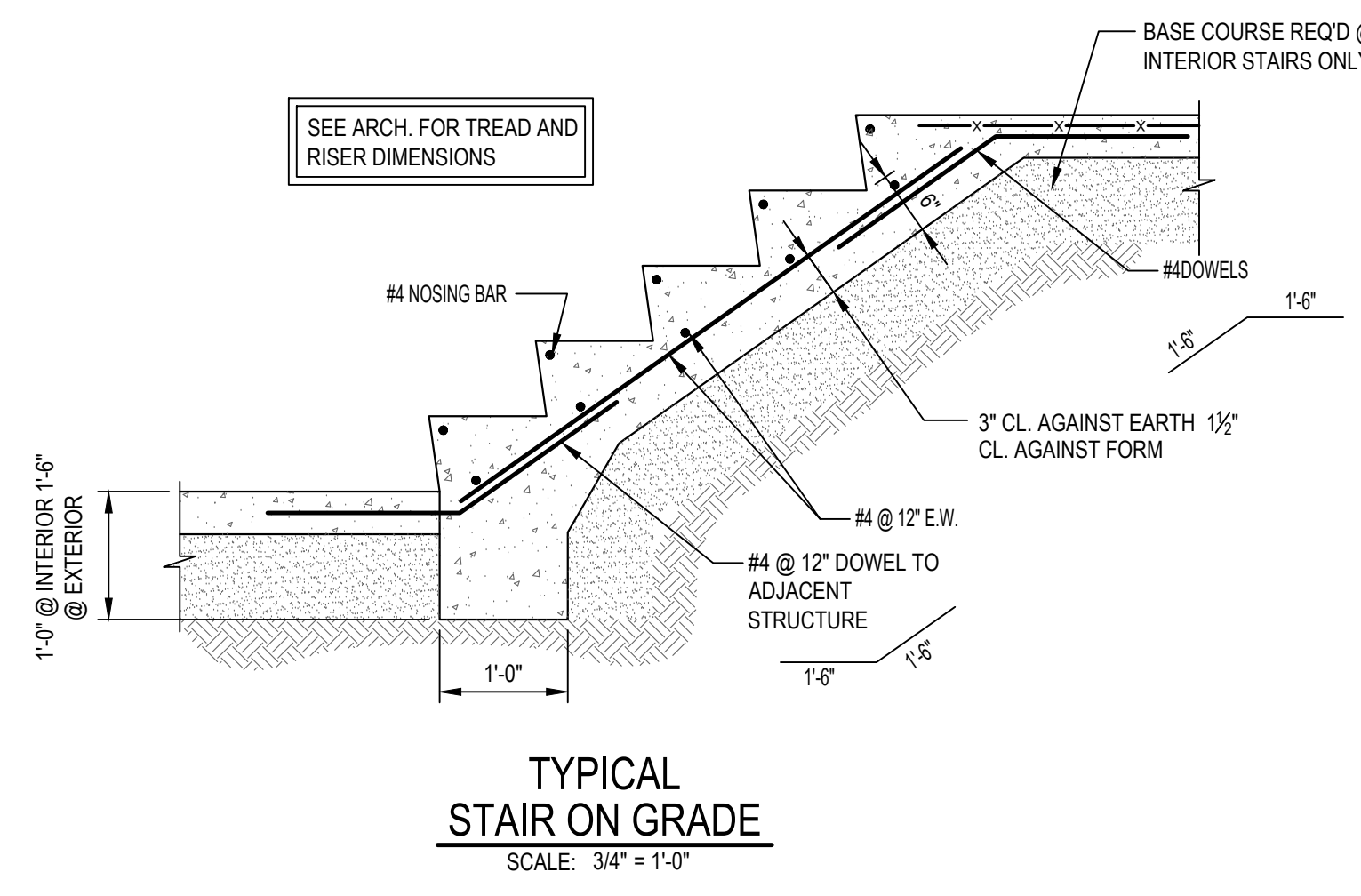
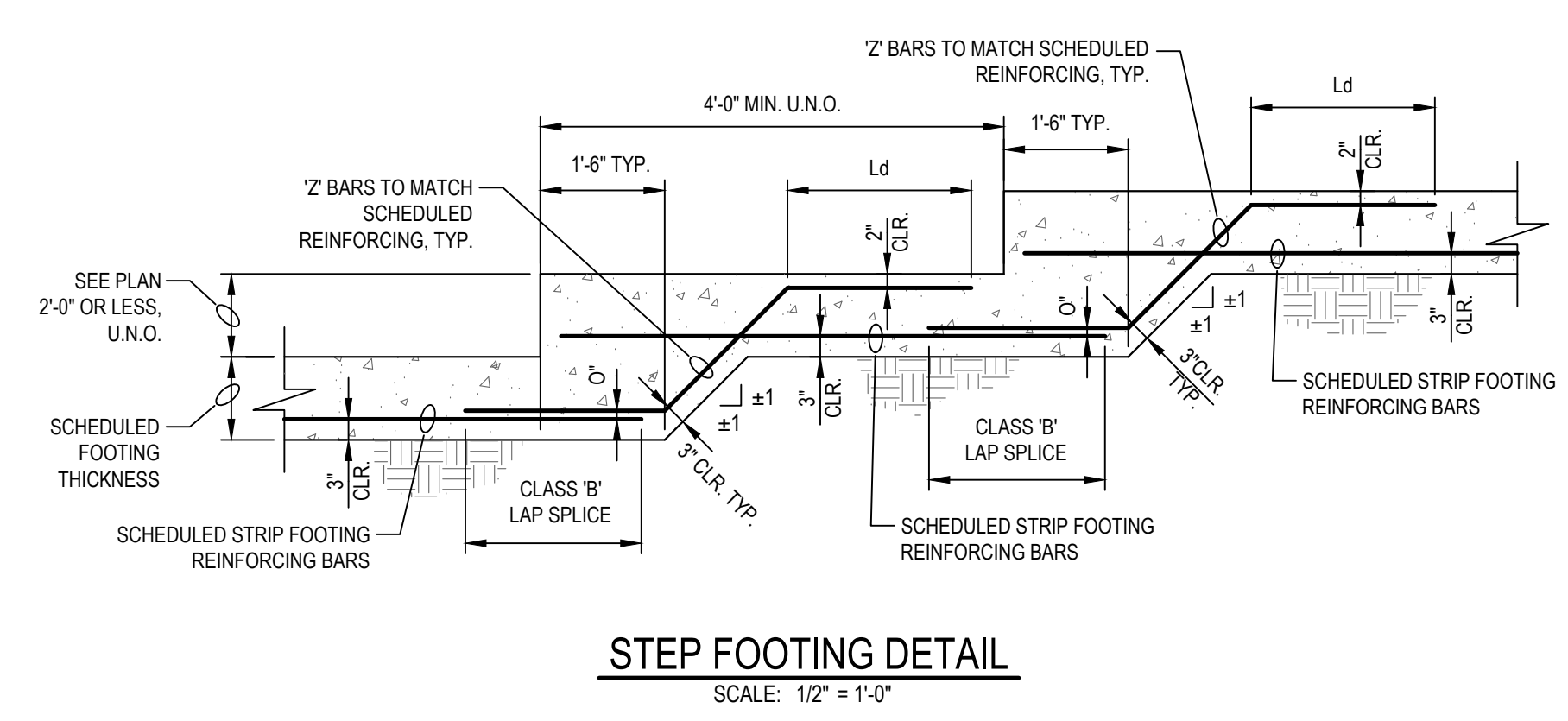
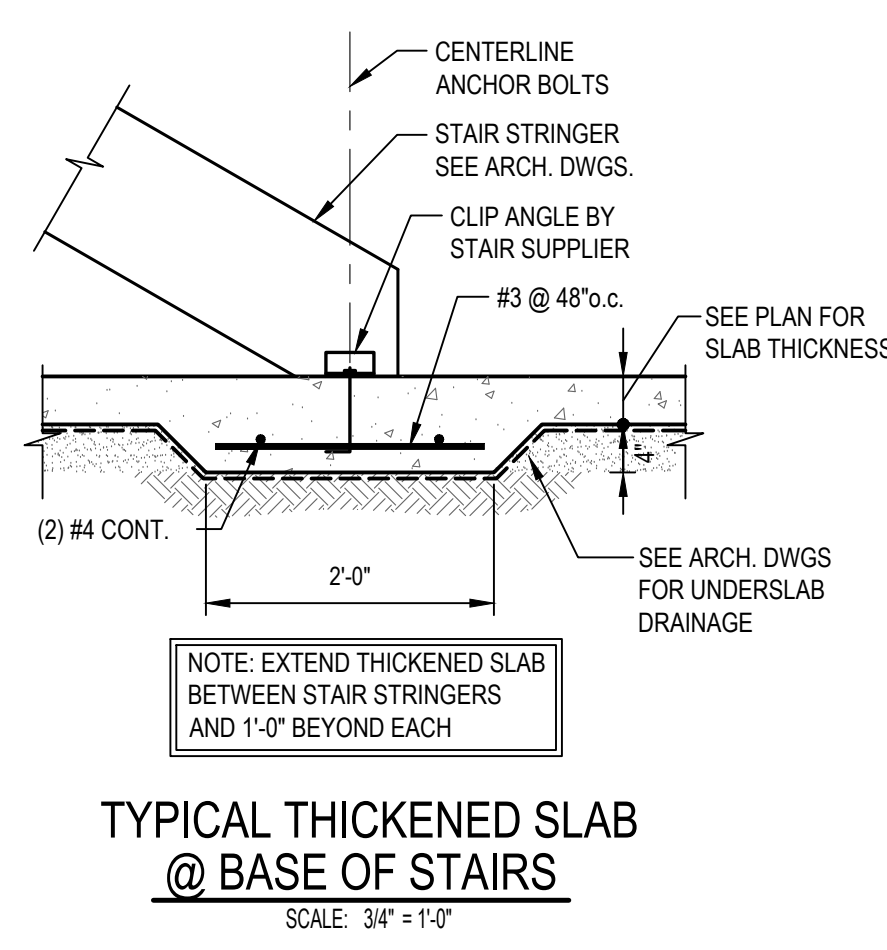
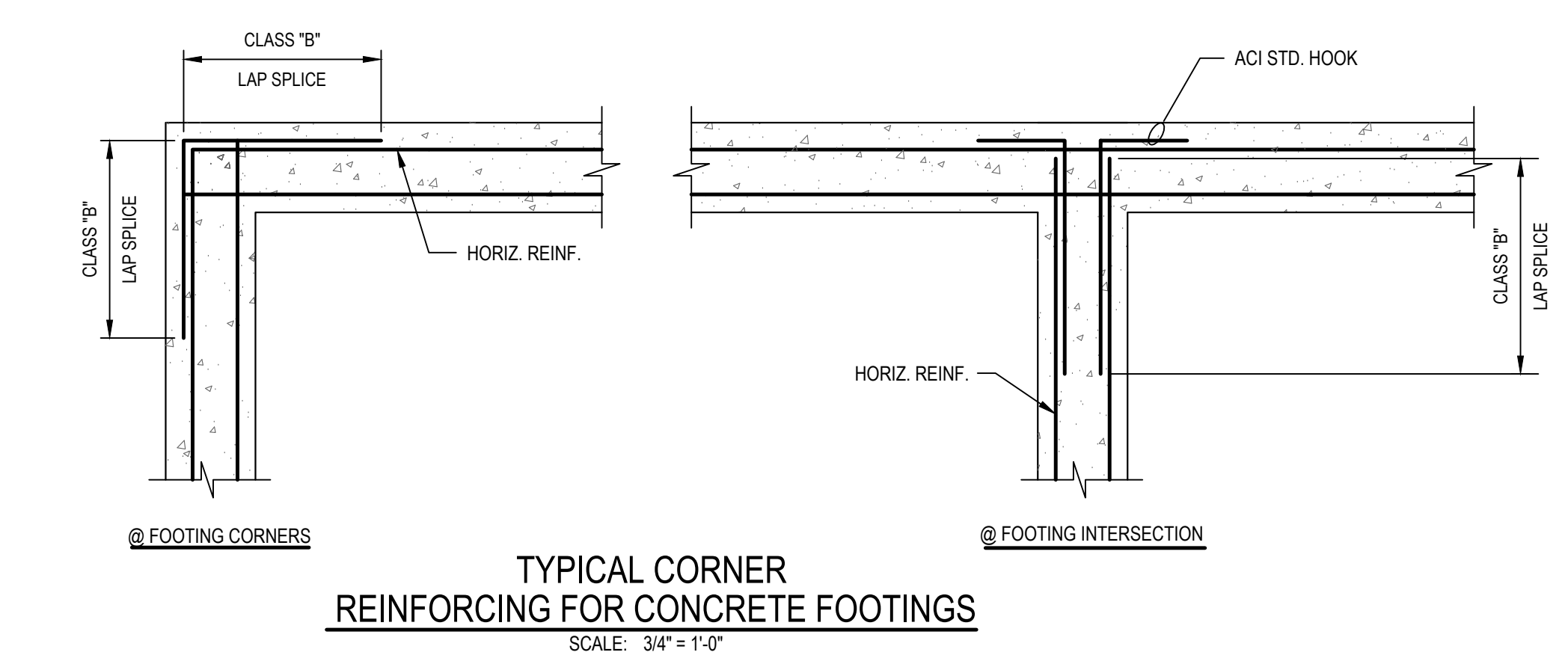
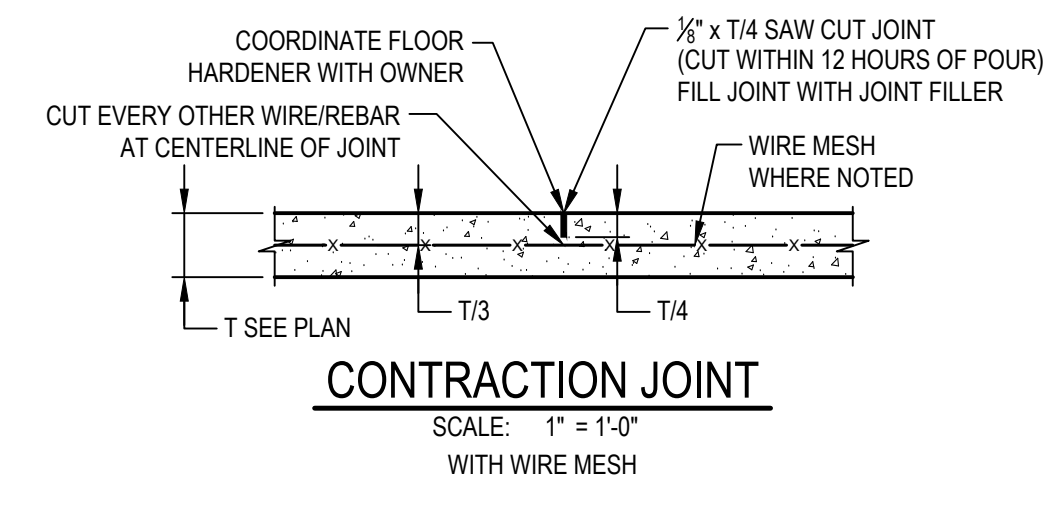
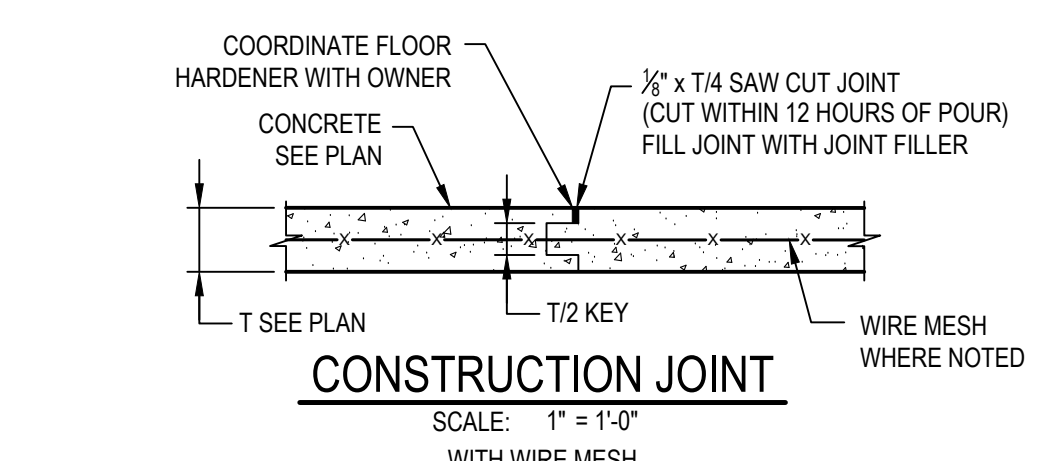
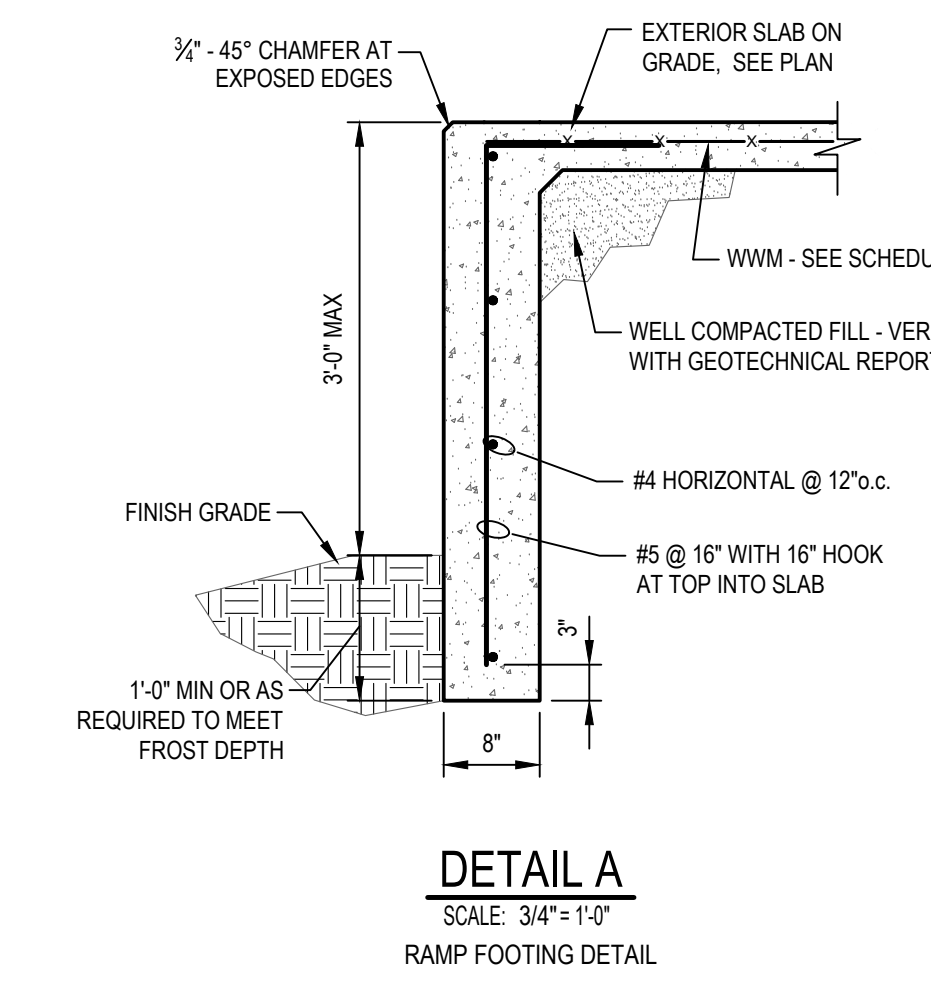
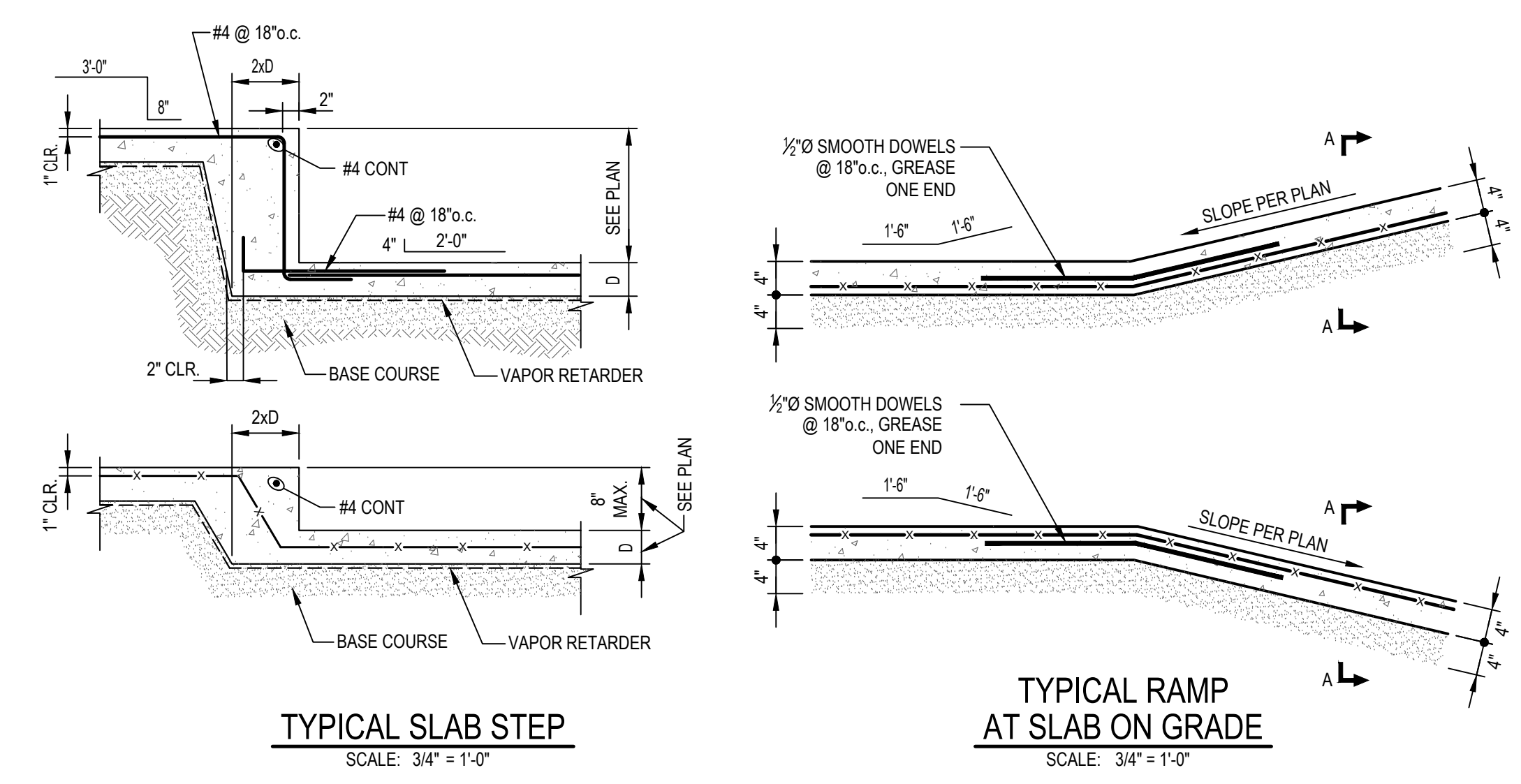
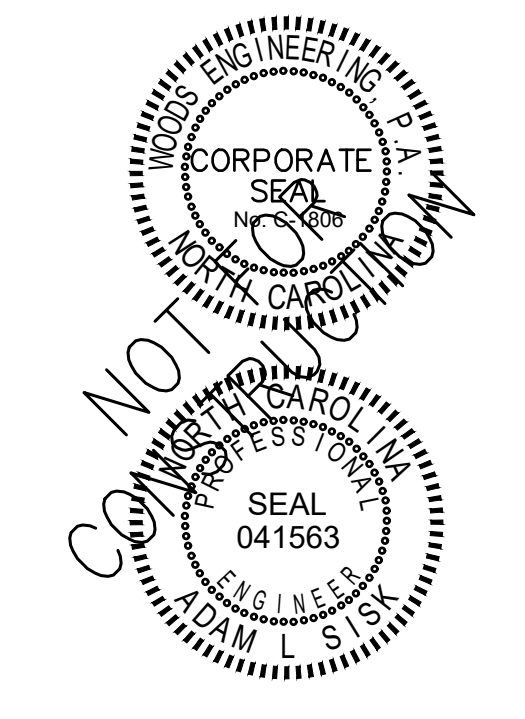
**S2.03**



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SPREAD FOOTING SCHEDULE				
MARK	SIZE length x width x thickness	REINFORCEMENT		REMARKS
		BOTTOM BARS U.N.O.	TOP BARS U.N.O.	
F3	3'-0" x 3'-0" x 1'-0"	(3)#5	-	-
F4	4'-0" x 4'-0" x 1'-0"	(4)#5	-	-
F5	5'-0" x 5'-0" x 1'-0"	(5)#5	-	-
F6	6'-0" x 6'-0" x 1'-2"	(7)#5	-	-
F7	7'-0" x 7'-0" x 1'-5"	(9)#5	-	-

STRIP FOOTING (SF-X) SCHEDULE				
MARK	SIZE width x thickness x length	REINFORCEMENT (BOTTOM BARS U.N.O.)	REMARKS	TYPICAL LOCATION, U.N.O.
SF-1	0'-8" x 1'-0" x CONT.	-	-	EXTERIOR SLAB EDGES
SF-2	2'-0" x 1'-0" x CONT.	-	-	EXTERIOR WALLS
SF-4	4'-0" x 2'-0" x CONT.	(5) #6 CONT. TOP AND (5) #7 BARS BOT.	TFTG=1'-4"	BRACE FRAME
SF-5	5'-0" x 2'-0" x CONT.	(6) #6 CONT. TOP AND (7) #7 BARS BOT.	TFTG=1'-4"	SEE PLAN

SLAB ON GRADE SCHEDULE							
MARK	THICKNESS	CONCRETE STRENGTH	REINFORCEMENT	AIR ENTRAINMENT	TYPICAL LOCATION	VAPOR BARRIER	COMMENTS
SOG-4	4"	3,000psi	WWM6xW2.0xW2.0	NO	TYP INTERIOR	15ml	-
SOG-4E	4"	4,000psi	WWM6xW2.0xW2.0 FLAT SHEETS	YES	TYP EXTERIOR	10ml	LIGHT BROOM FINISH
SOG-8	8"	3,000psi	#4@18" c. TOP EACH WAY	NO	BOWLING ALLEY	15ml	LIGHT BROOM FINISH

NOTES:  
-ALL SLAB-ON-GRADES SHALL BEAR ON DRAINAGE LAYER AND WELL COMPACTED SUBGRADE PER GEOTECHNICAL REPORT. VERIFY COMPACTION AND MATERIAL WITH GEOTECHNICAL ENGINEER.

GENERAL NOTE:  
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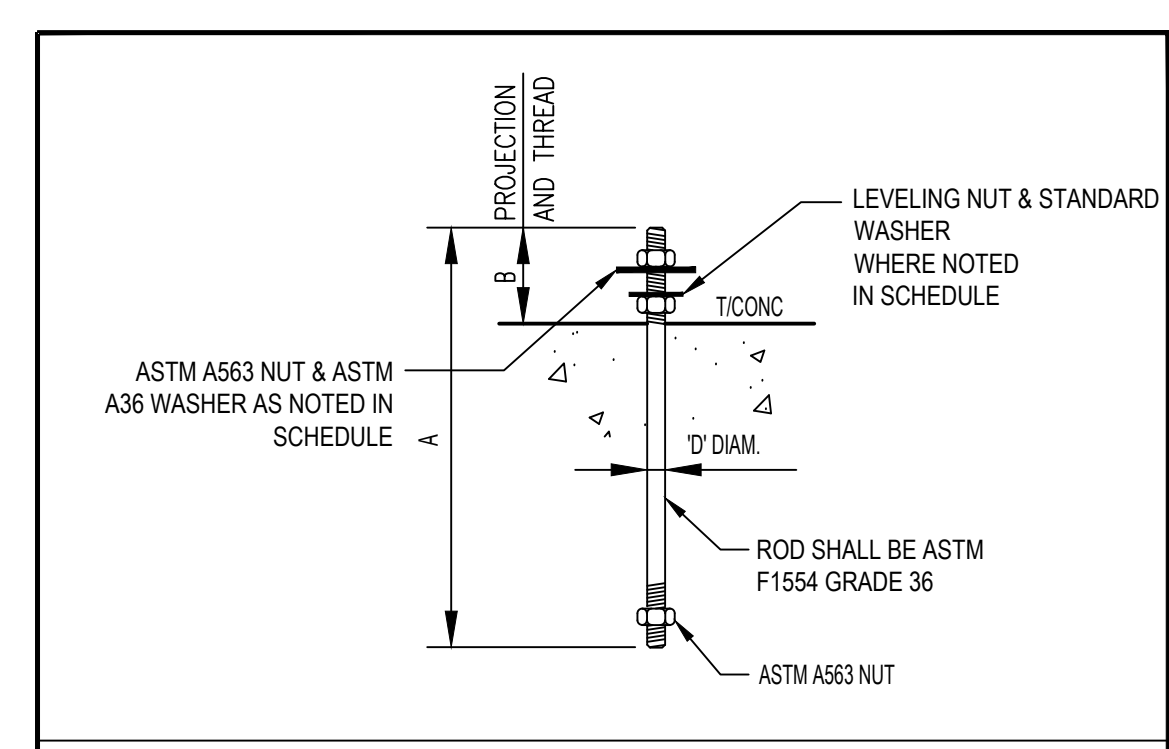
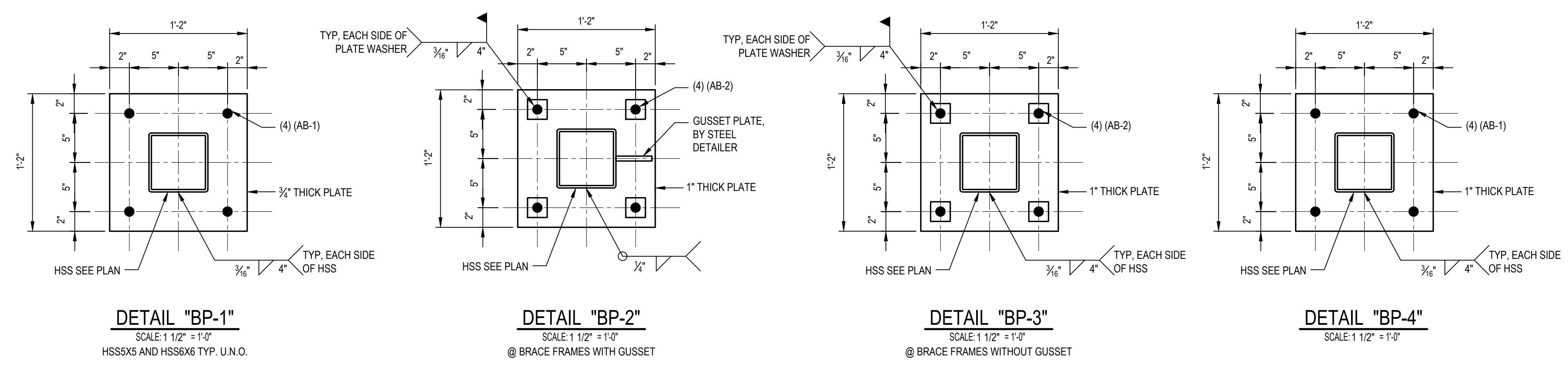
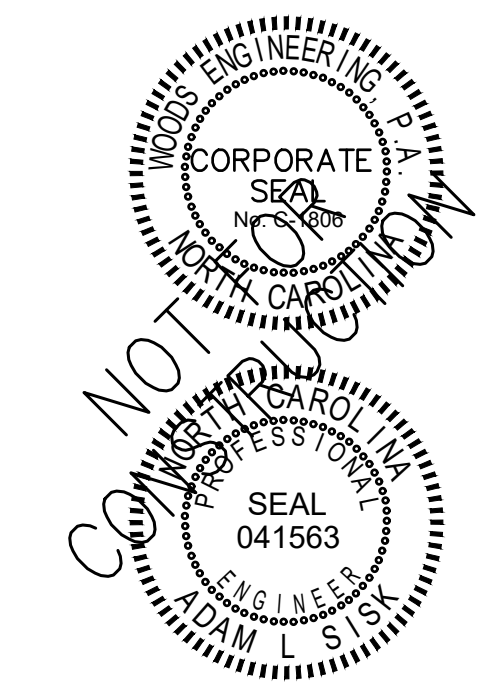
FOUNDATION DETAILS



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ANCHOR BOLT SCHEDULE

MARK	BOLT DIAM. D	HOLE DIAMETER	A	B	TOP WASHER O.D. x L	LEVELING NUT	REMARKS
AB-1	3/4"	1 1/4"	1'-2"	5"	2" x 1/2"	YES	2" LEVELING GROUT
AB-2	1 1/2"	2 1/4"	2'-4"	7"	3" x 1/2"	YES	2" LEVELING GROUT

NOTE: ALL ANCHOR BOLTS GREATER OR EQUAL TO 1 1/2" SHALL HAVE HEAVY HEX HEAD NUTS.

- FOUNDATION SECTION NOTES**
- DO NOT SCALE SECTIONS. SEE PLANS AND SCHEDULES FOR SIZES NOT SHOWN.
  - REBAR IS SHOWN FOR REFERENCE ONLY. SEE PLANS AND SCHEDULES FOR REINFORCEMENT REQUIREMENTS. WHERE REINFORCEMENT IS SPECIFIED IN SECTIONS IT IS IN ADDITION TO SCHEDULES.
  - IF A HOOK IS SHOWN ON REINFORCEMENT A STANDARD HOOK PER ACI IS REQUIRED U.N.O.
  - IF A DISCREPANCY EXISTS BETWEEN THE SECTIONS AND PLAN THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
  - EPOXY FOR CMU SHALL BE HY-270.
  - EPOXY FOR CONCRETE SHALL BE HY-200.
  - FOR PRICING ASSUME ALL EXTERIOR FRAMING IS 600S162-54 @16' o.c. - FINAL DESIGN BY DD (18ga MIN.)
  - ALL CFS FRAMING AND CONNECTIONS SHOWN ARE FOR PRICING ONLY - FINAL DESIGN BY DD

ALL FEDERAL, STATE, AND LOCAL  
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ETC. SHALL BE CONSIDERED AS PART  
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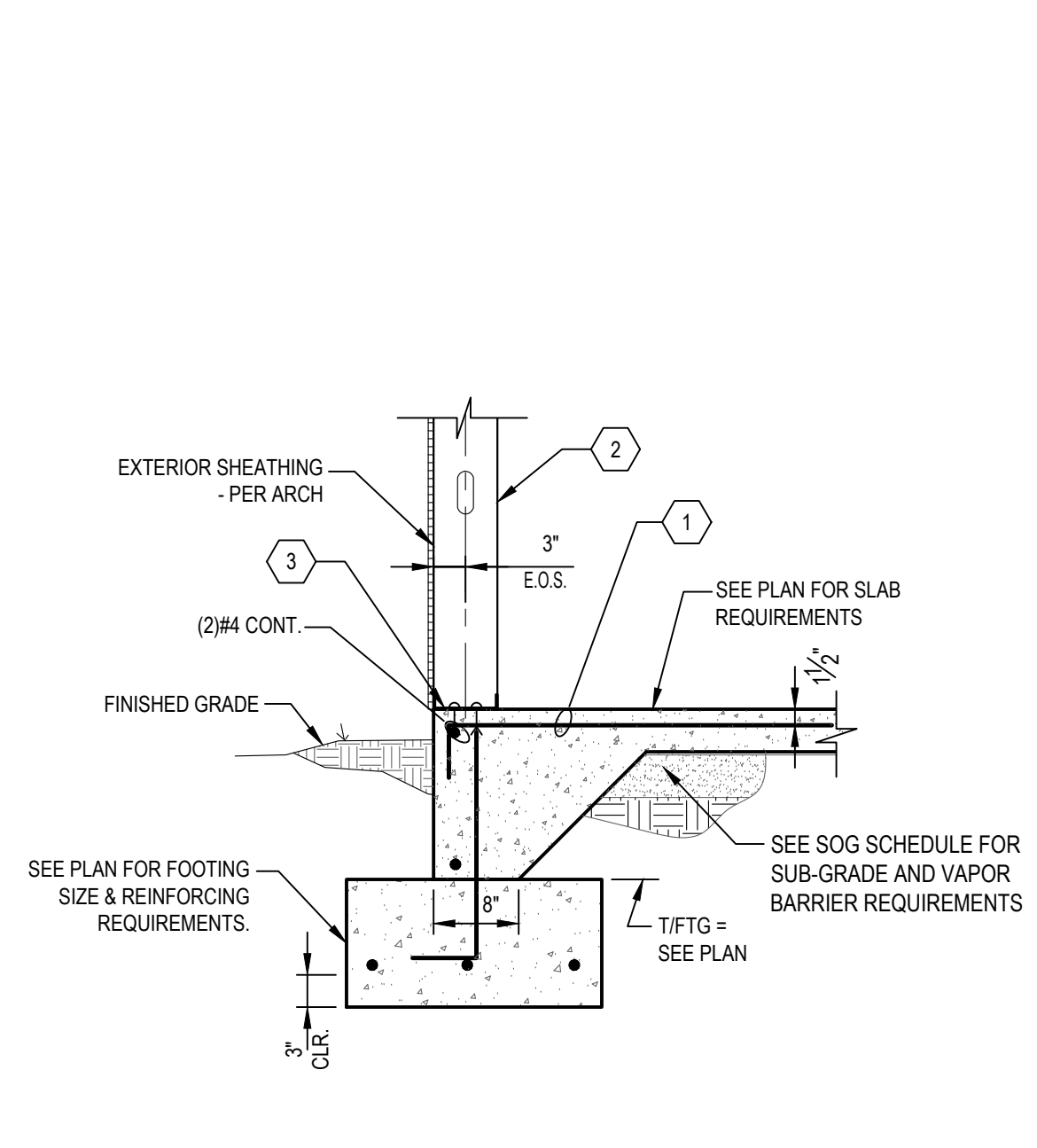
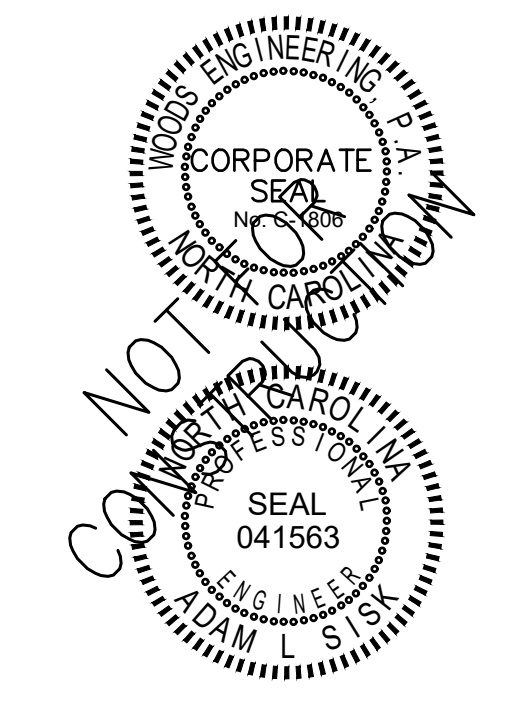
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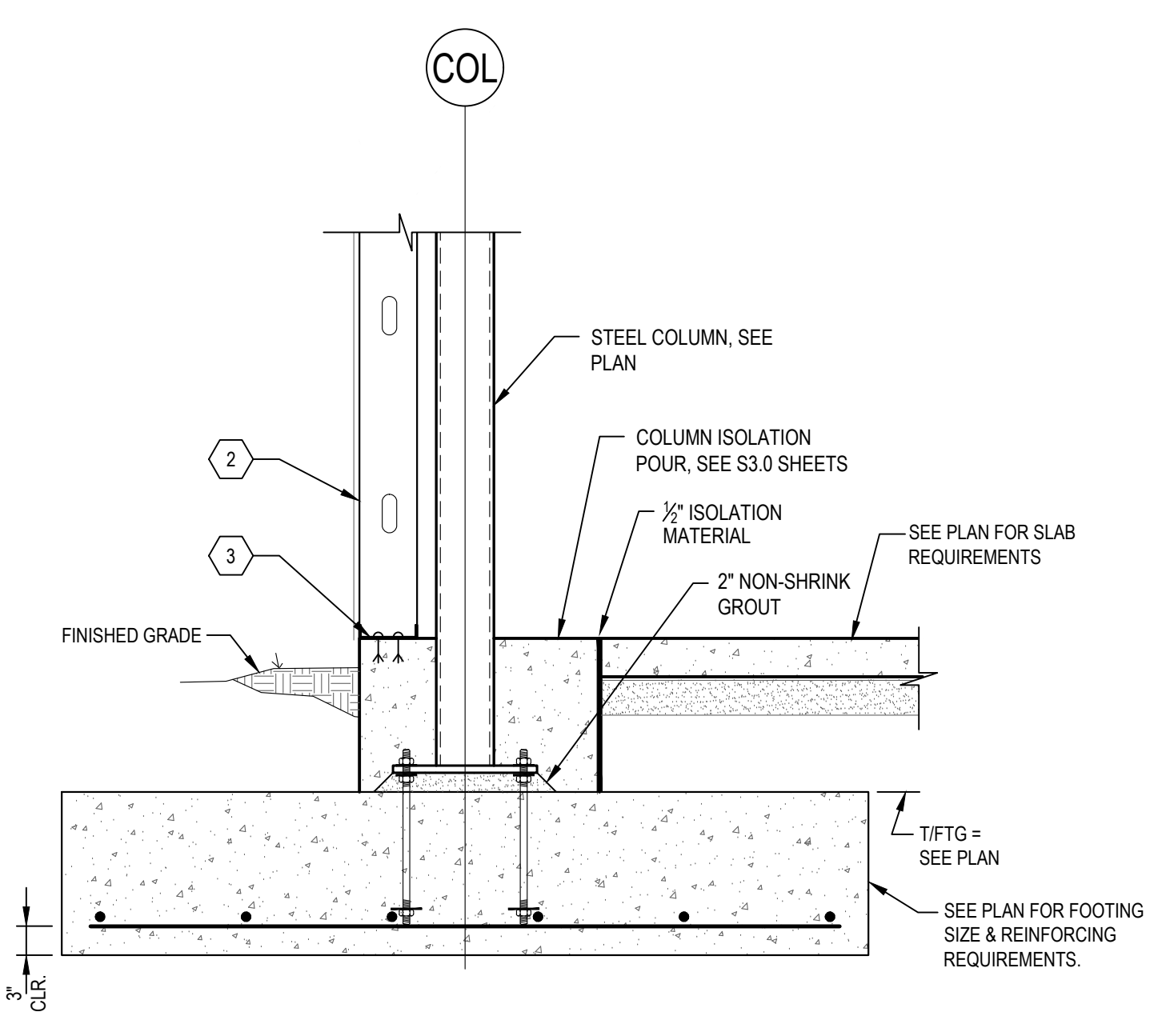
BASEPLATE DETAILS



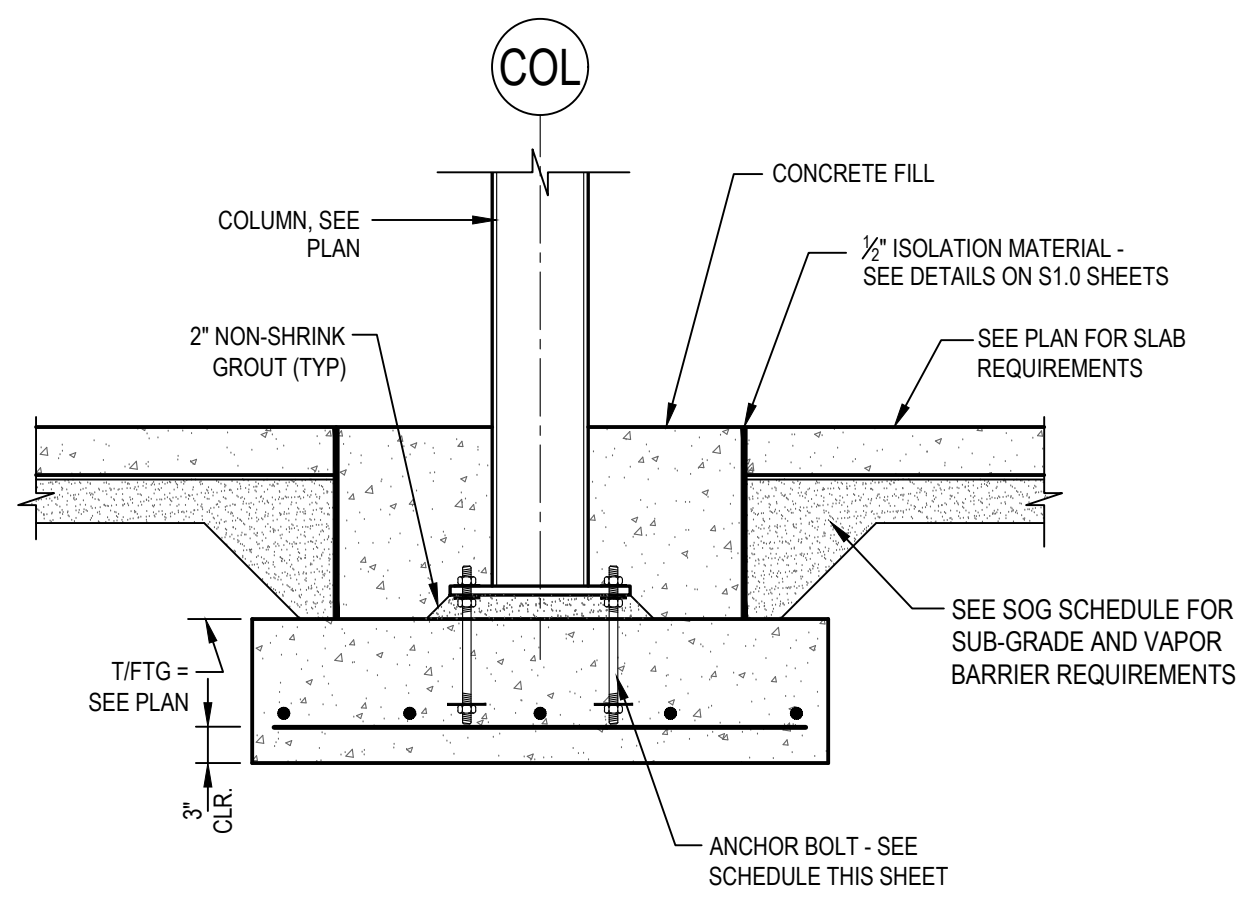
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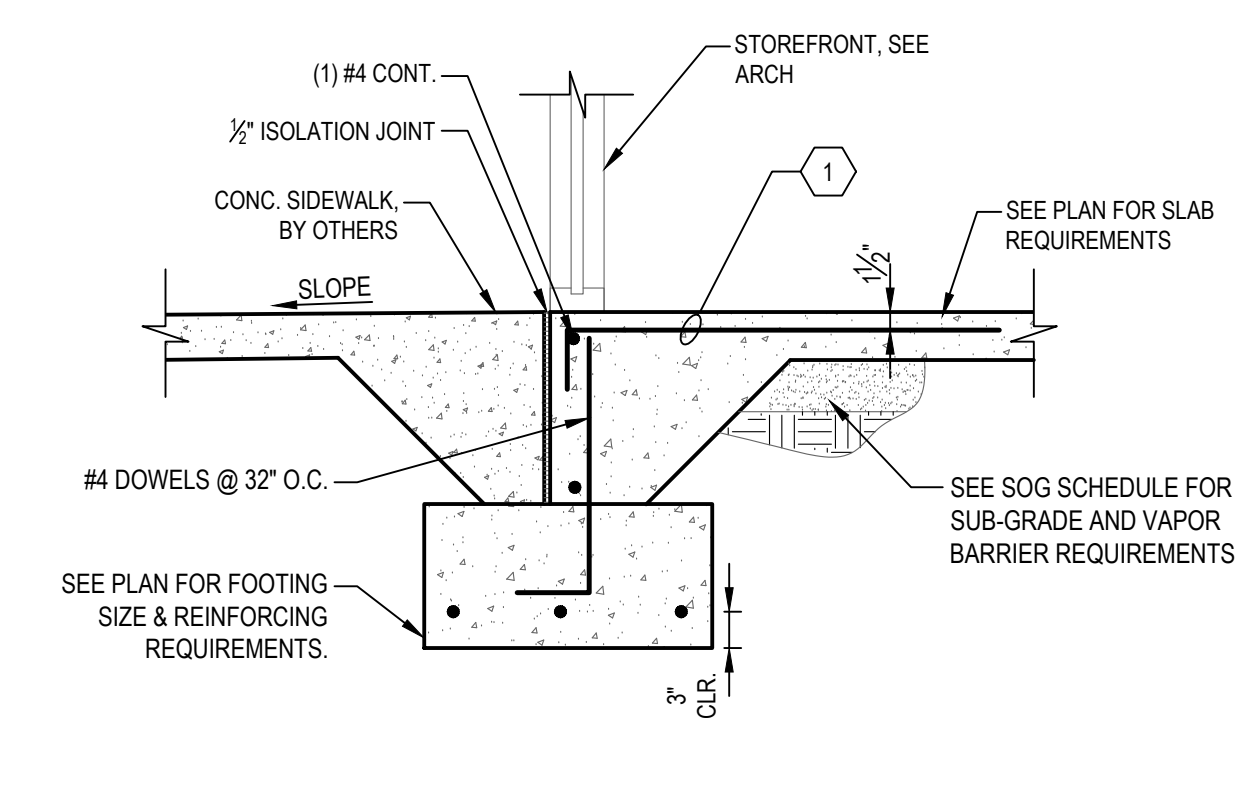
**SECTION 1**  
SCALE: 3/4" = 1'-0"  
TYPICAL PERIMETER DROPPED FOOTING



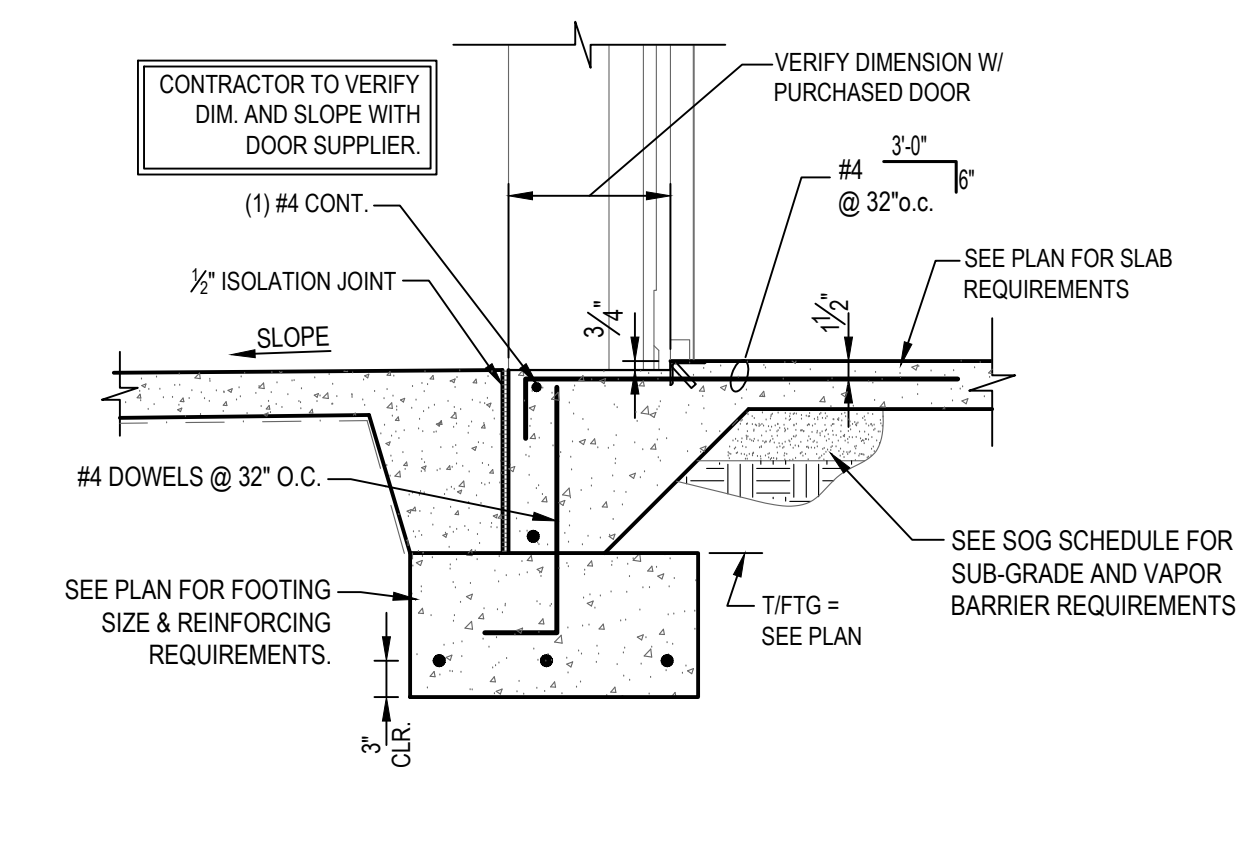
**SECTION 2**  
SCALE: 3/4" = 1'-0"  
COLUMN @ WALL FOOTING



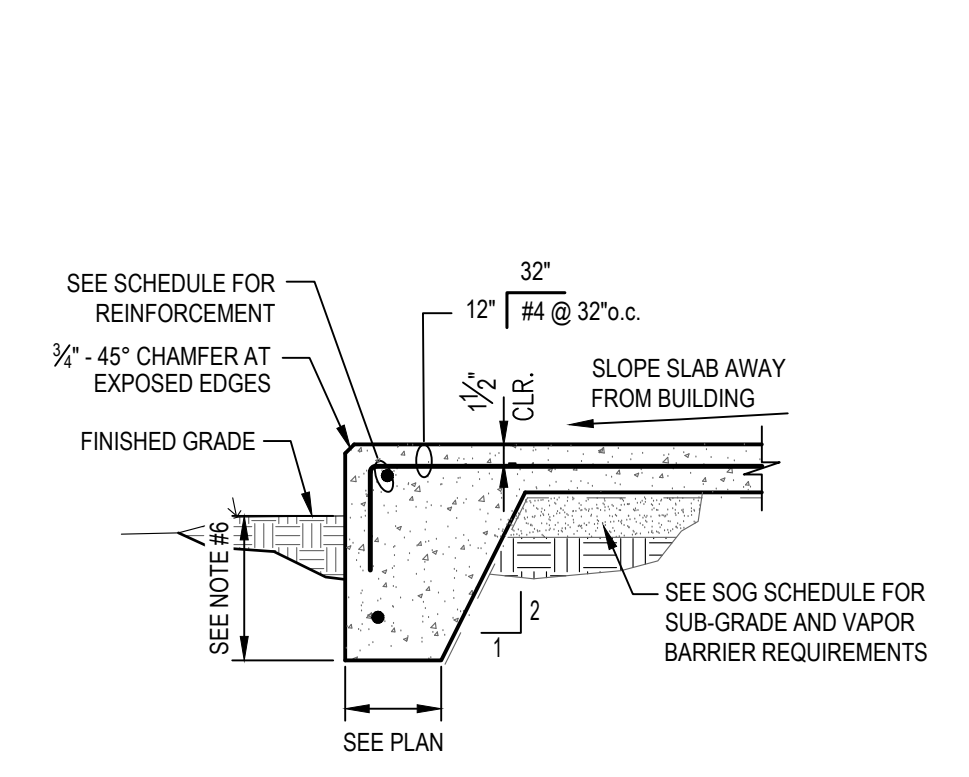
**SECTION 3**  
SCALE: 3/4" = 1'-0"  
TYPICAL INTERIOR FOUNDATION AT COLUMN



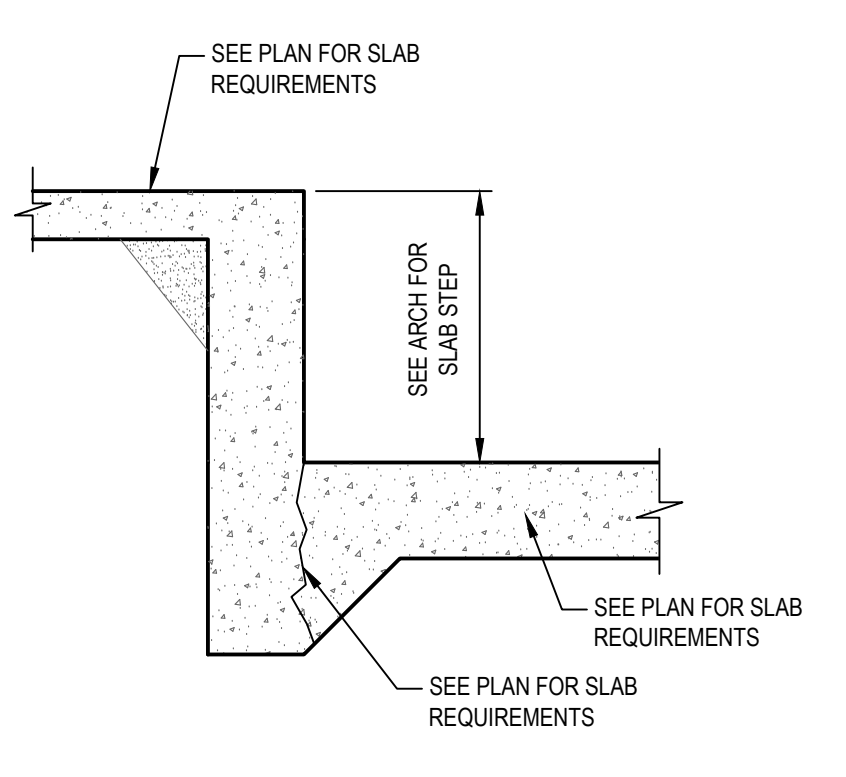
**SECTION 4**  
SCALE: 3/4" = 1'-0"  
TYPICAL INTERIOR FOUNDATION AT CURTAIN WALL



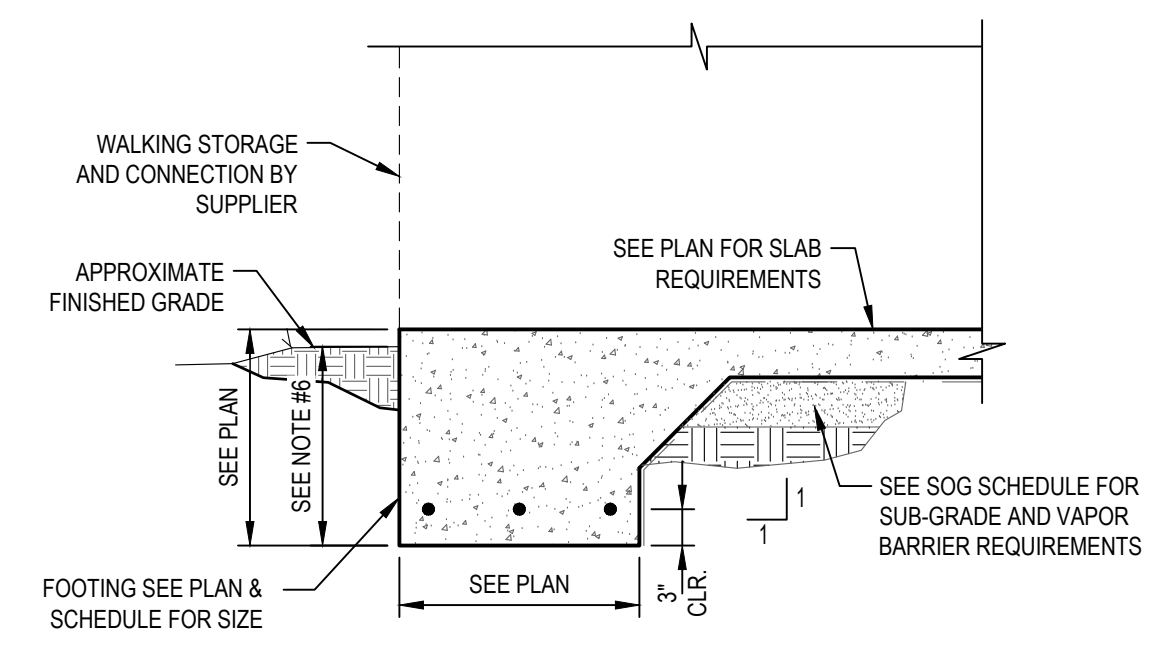
**SECTION 5**  
SCALE: 3/4" = 1'-0"



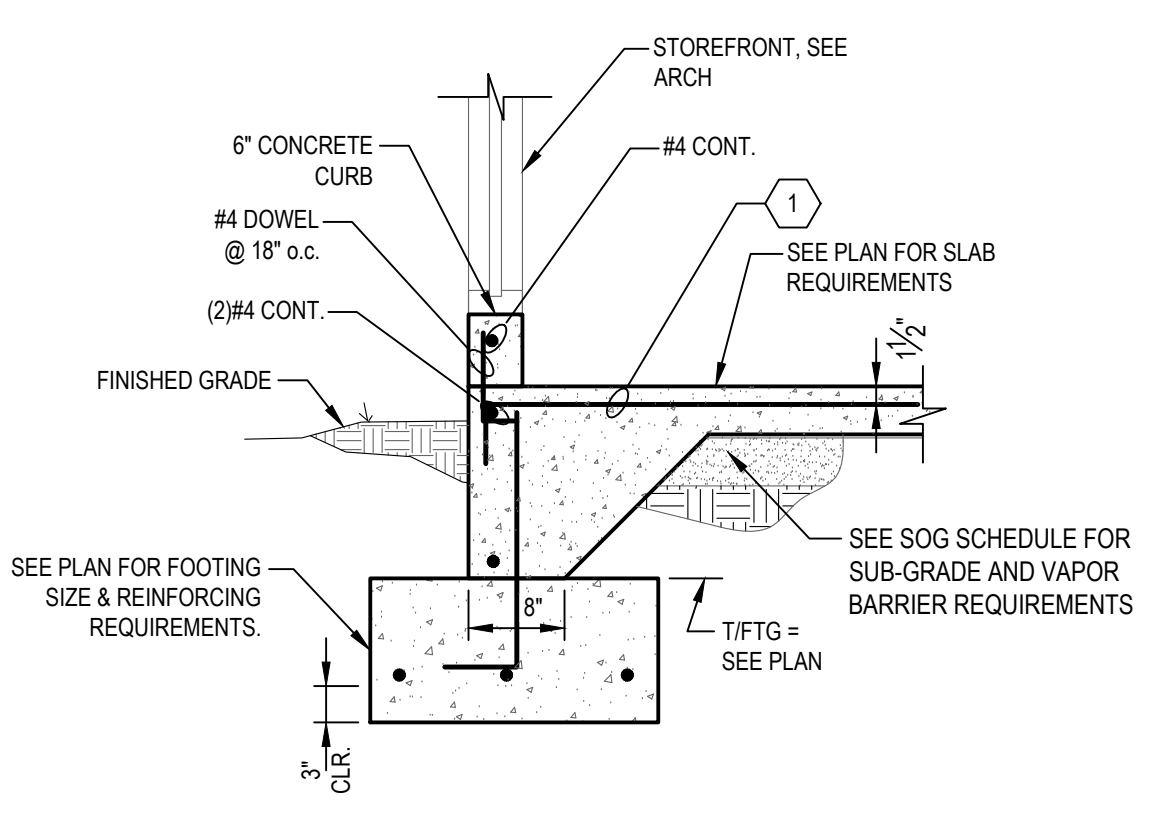
**SECTION 6**  
SCALE: 3/4" = 1'-0"



**SECTION 7**  
SCALE: 3/4" = 1'-0"  
SLAB STEP



**SECTION 8**  
SCALE: 3/4" = 1'-0"  
TYP. AT WALK-IN STORAGE



**SECTION 9**  
SCALE: 3/4" = 1'-0"

- FOUNDATION SECTION NOTES**
- DO NOT SCALE SECTIONS. SEE PLANS AND SCHEDULES FOR SIZES NOT SHOWN.
  - REBAR IS SHOWN FOR REFERENCE ONLY. SEE PLANS AND SCHEDULES FOR REINFORCEMENT REQUIREMENTS. WHERE REINFORCEMENT IS SPECIFIED IN SECTIONS IT IS IN ADDITION TO SCHEDULES.
  - IF A HOOK IS SHOWN ON REINFORCEMENT A STANDARD HOOK PER ACI IS REQUIRED UNLESS OTHERWISE NOTED.
  - IF A DISCREPANCY EXISTS BETWEEN THE SECTIONS AND PLAN THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
  - WHEN A SECTION IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS REGARDLESS OF WHETHER CUT OR LABELED, UNLESS OTHERWISE NOTED.
  - SEE S-10 SHEETS FOR MINIMUM DEPTH OF FOOTING BEARING BELOW GRADE.
  - ALL EPOXY FOR CONCRETE SHALL BE HILTI HY-200 OR APPROVED EQUAL.
  - ALL EPOXY FOR CMU SHALL BE HILTI HY-270 OR APPROVED EQUAL.

FOUNDATION SECTION FASTENING SCHEDULE			
MARK	LOCATION	FASTENER REQUIREMENTS	COMMENTS
①	REBAR AT SLAB EDGE	0'-6" $\frac{7}{8}$ " #4 @ 32" o.c.	
②	TYPICAL EXTERIOR WALL FRAMING	6" OR 8" CFS DEPENDING ON LOCATIONS	FINAL DESIGN BY DD
③	TYPICAL @ SILL	6" OR 8" TRACK DEPENDING ON LOCATIONS W/ (2) ROWS OF PAFs @ 16" o.c.	FINAL DESIGN BY DD

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FOUNDATION SECTIONS

Date 11/21/2025 Scale As Noted  
Drawn Job  
Sheet

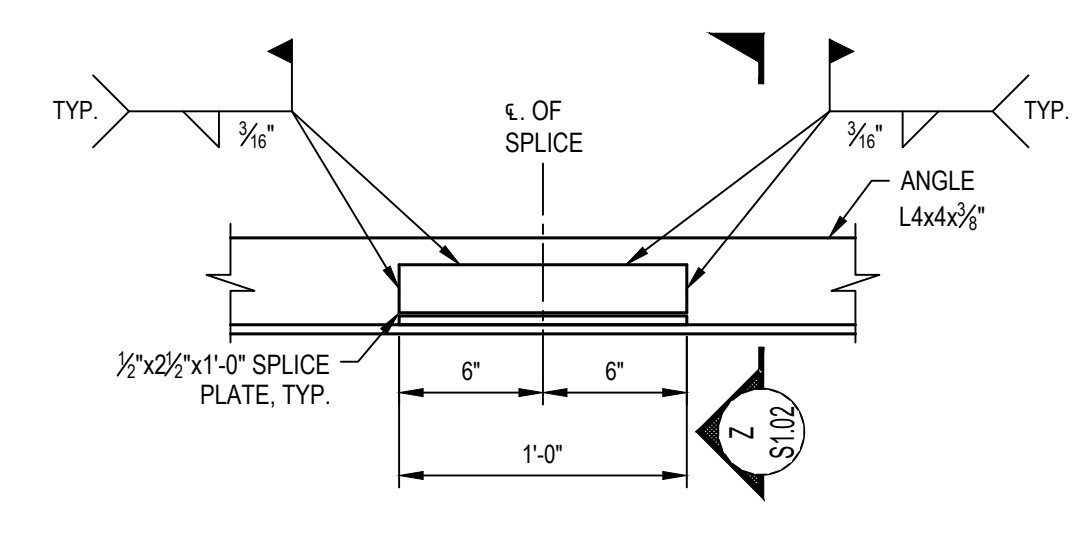
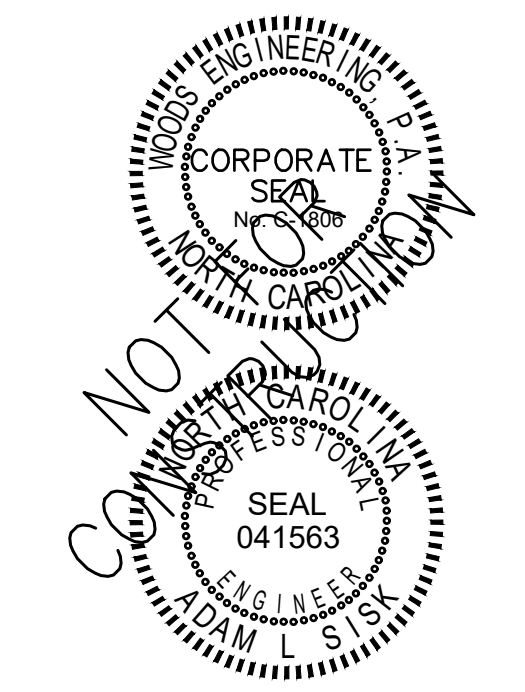
**S3.11**



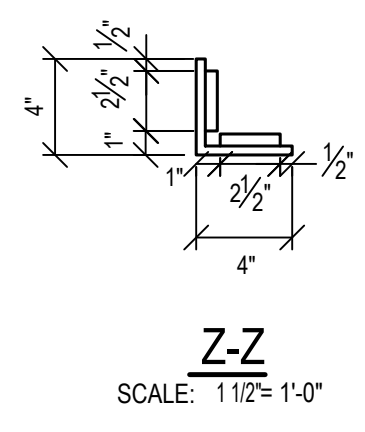
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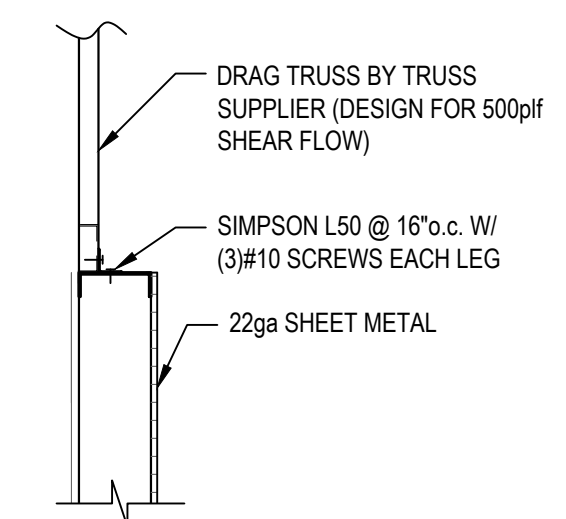
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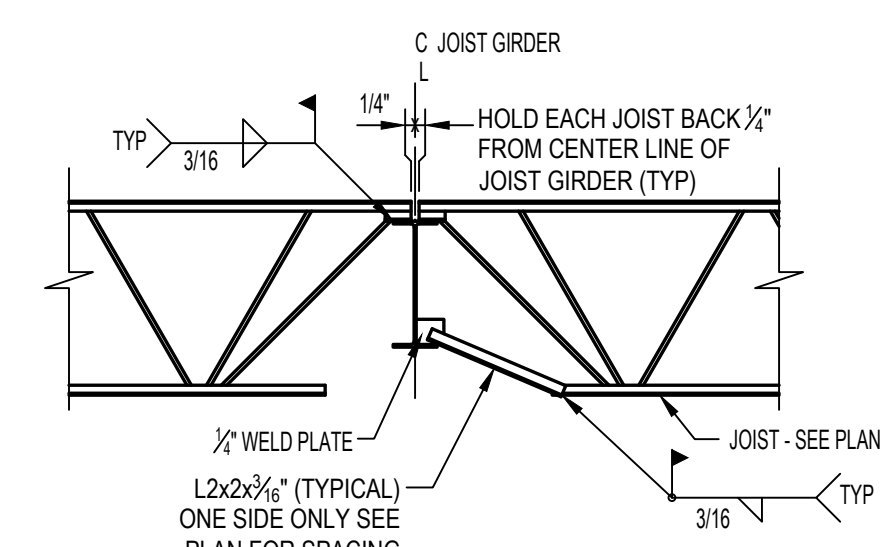
**TYPICAL ANGLE SPLICE DETAIL**  
SCALE: 1/12" = 1'-0"



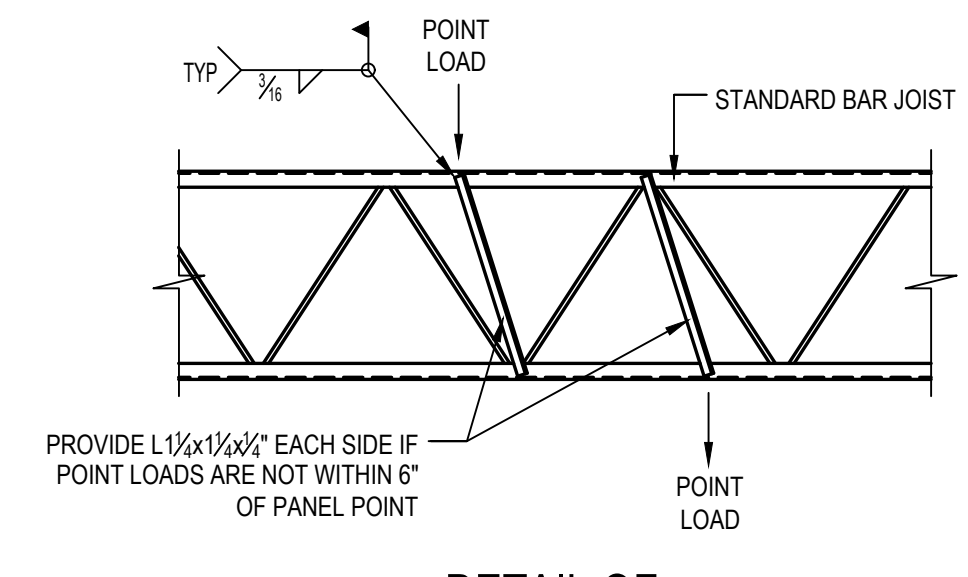
**TRACK PLATE DETAIL**  
SCALE: 3/4" = 1'-0"



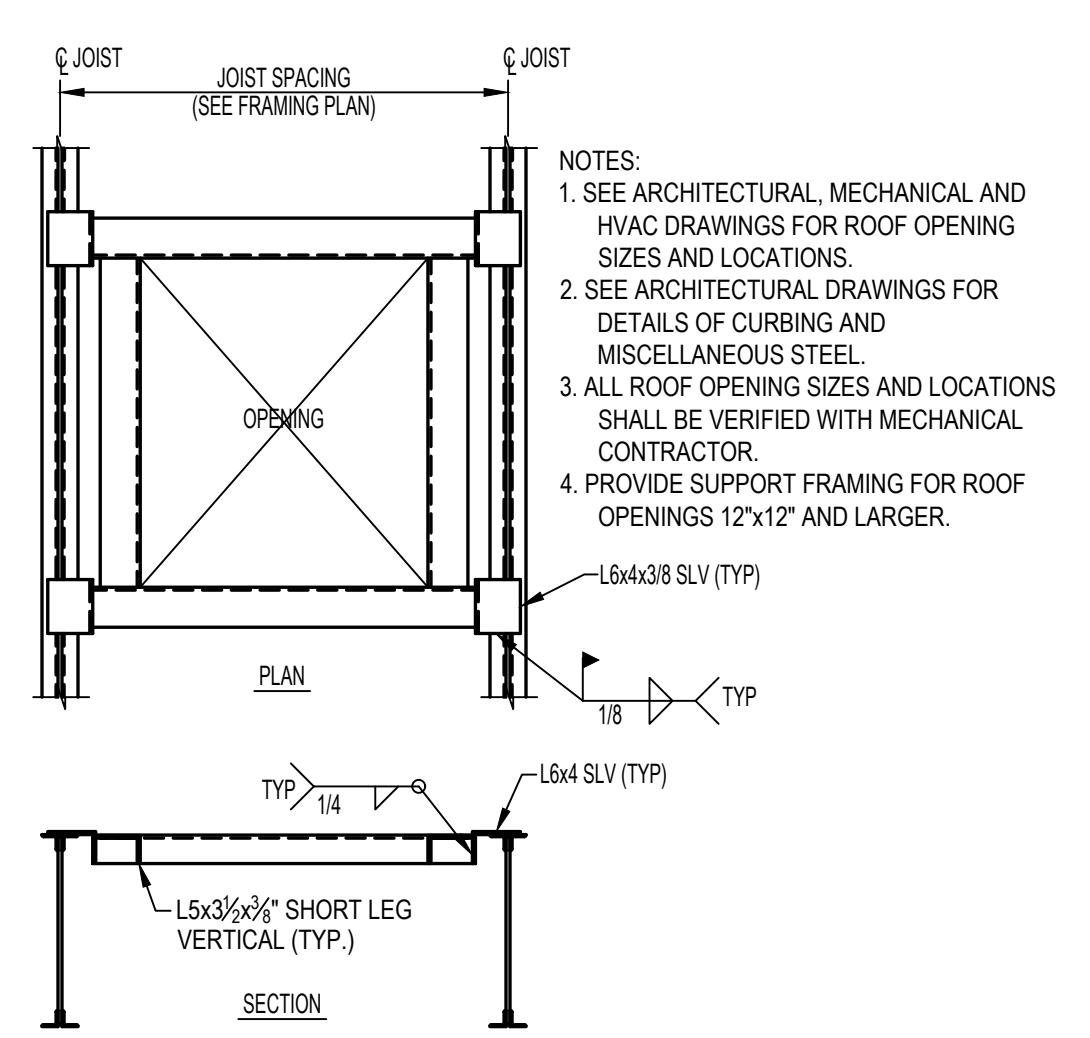
**DETAIL B-B**  
SCALE: 3/4" = 1'-0"



**SECTION 'A'**  
SCALE: 1/2" = 1'-0"  
GIRDER BOTTOM FLANGE (BRACE TYP.)

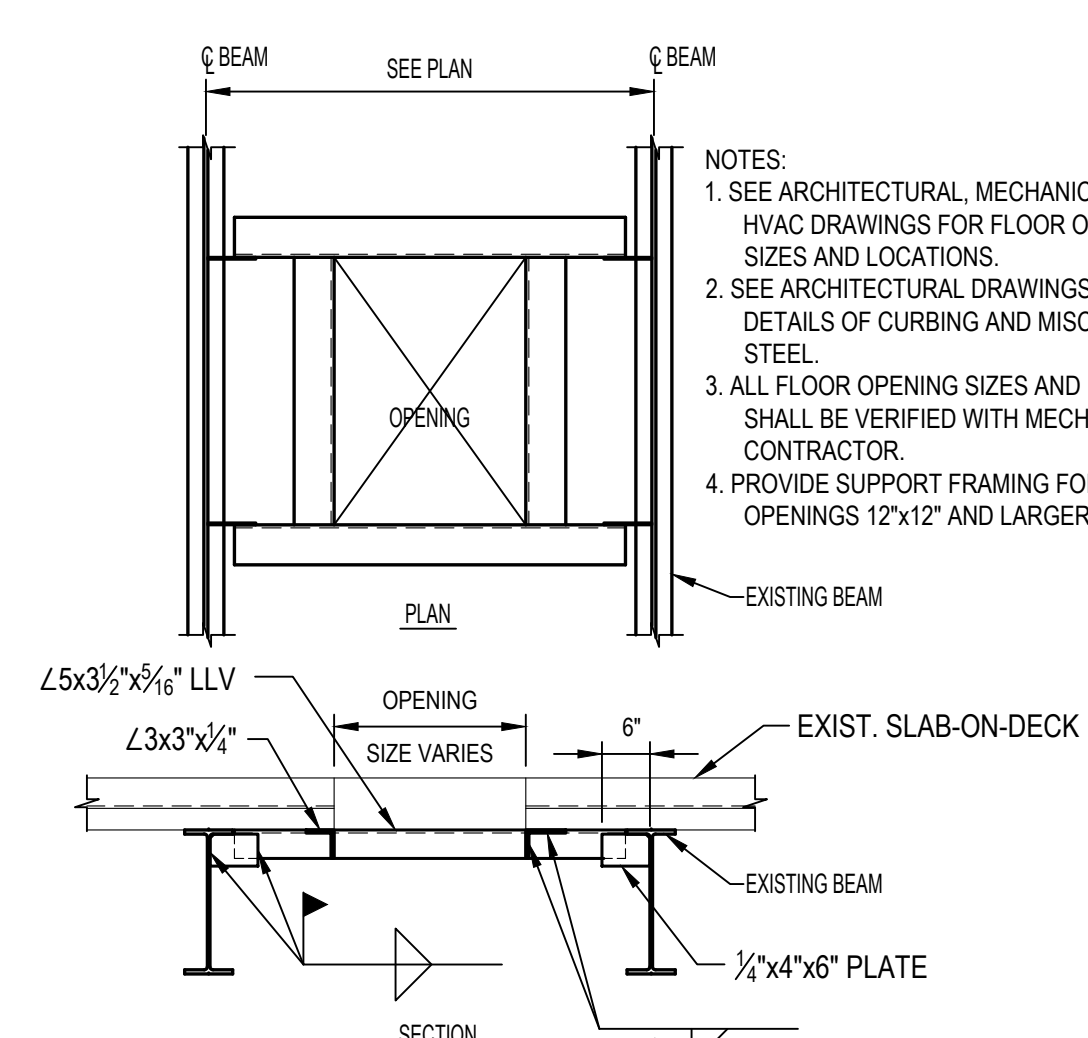


**DETAIL OF TYPICAL JOIST REINFORCEMENT**  
NOT TO SCALE

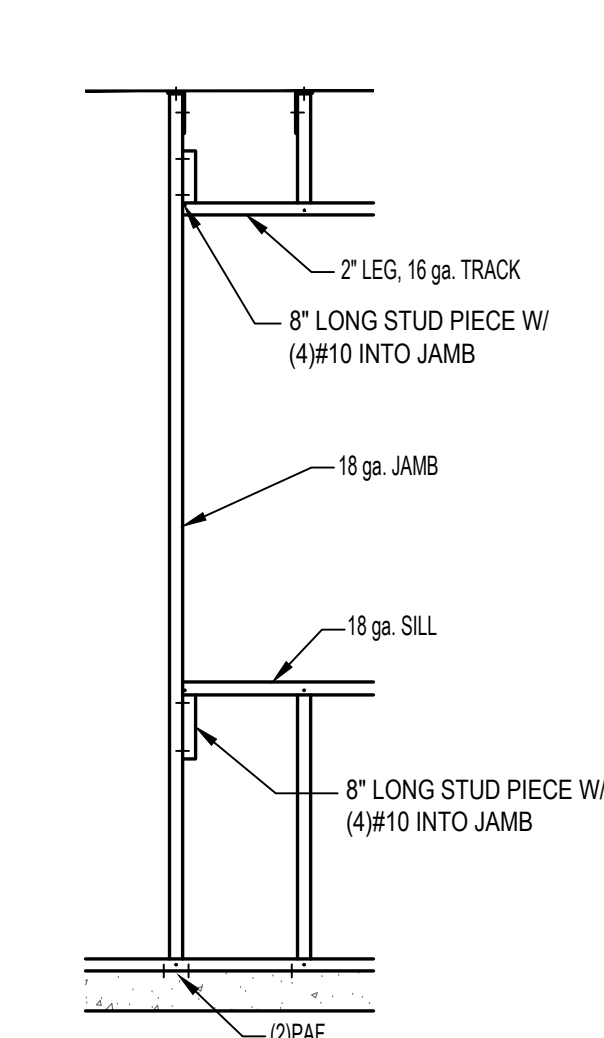


**DETAIL OF TYPICAL ROOF OPENING**  
NOT TO SCALE

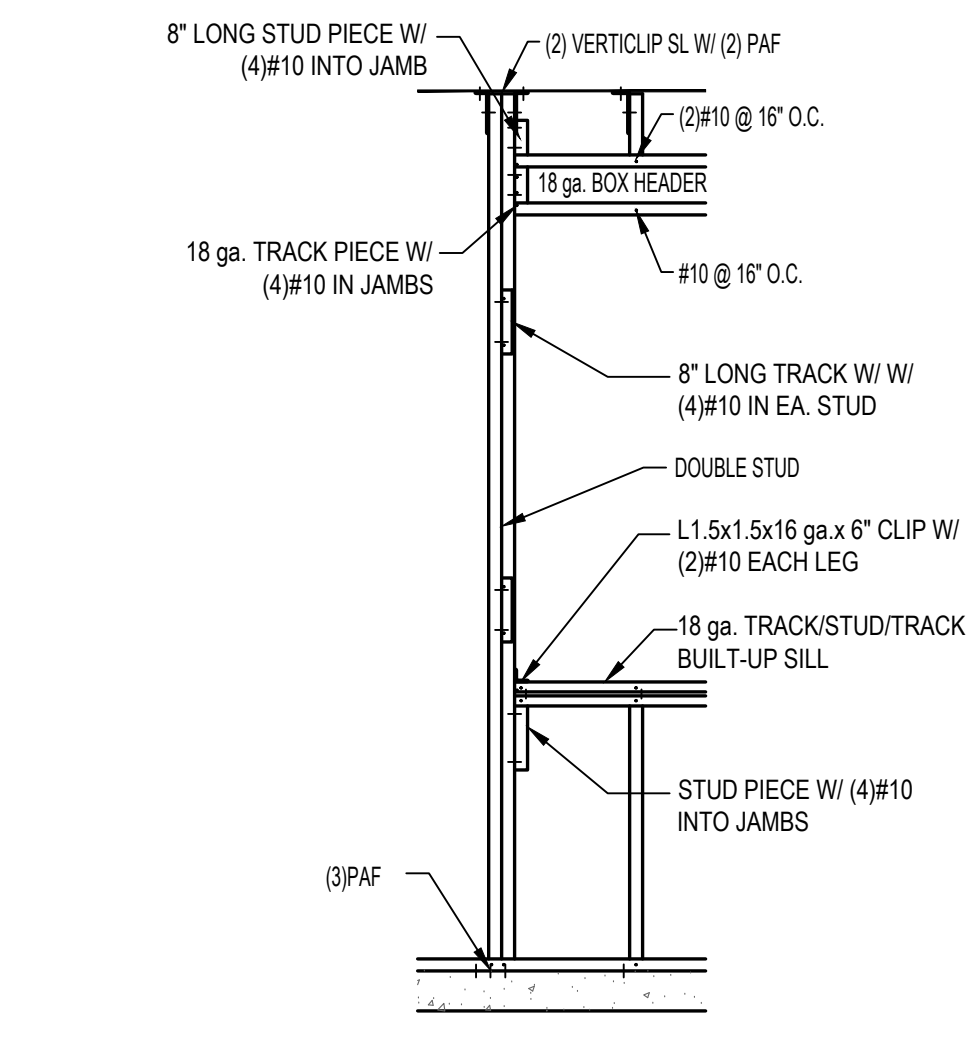
AT CONTRACTOR'S OPTION:  
USE QUICKFRAMES  
WWW.QUICKFRAMES.US



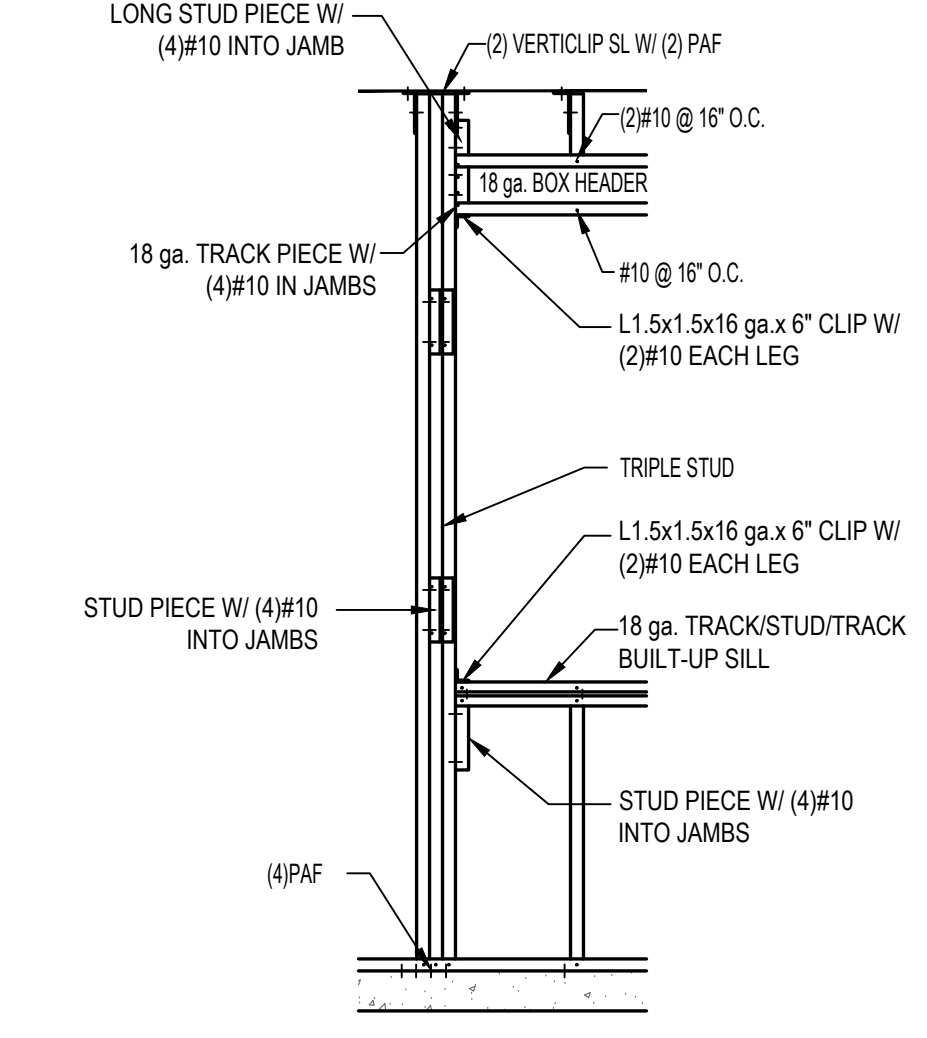
**DETAIL OF TYPICAL FLOOR OPENING**  
NOT TO SCALE



**TYPICAL EXTERIOR WALL FRAMING AT WINDOW OPENING UP TO 3'-4"**  
SCALE: 1/2" = 1'-0"



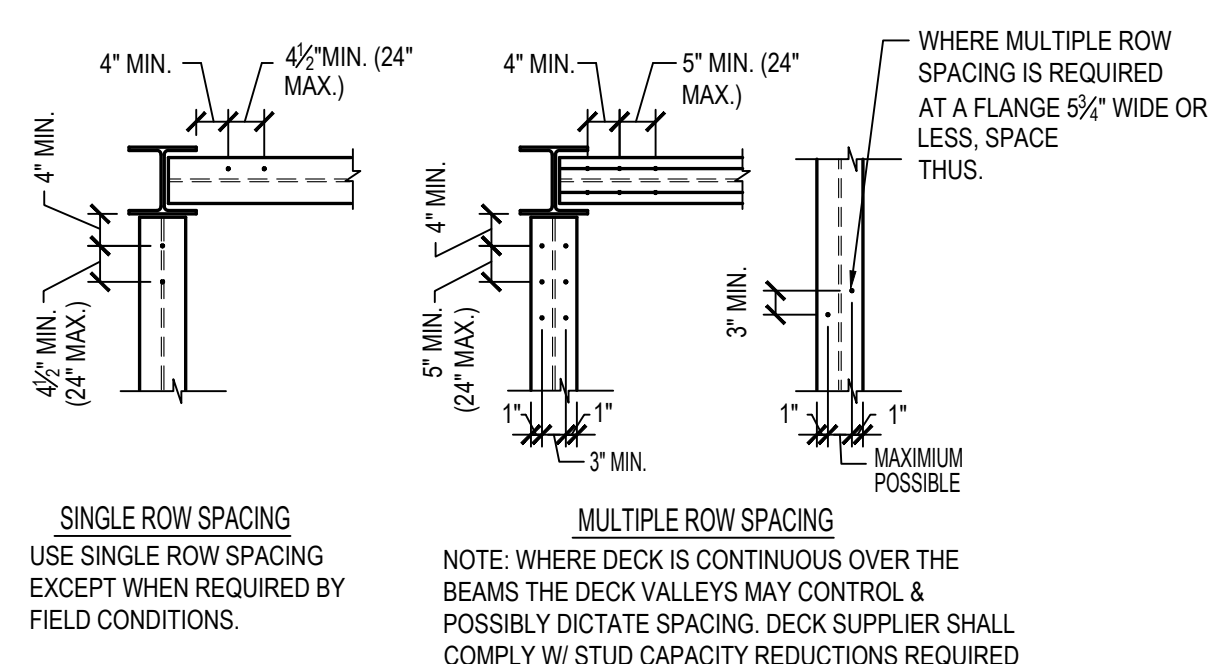
**TYPICAL EXTERIOR WALL FRAMING AT WINDOW OPENING UP TO 6'-4"**  
SCALE: 1/2" = 1'-0"



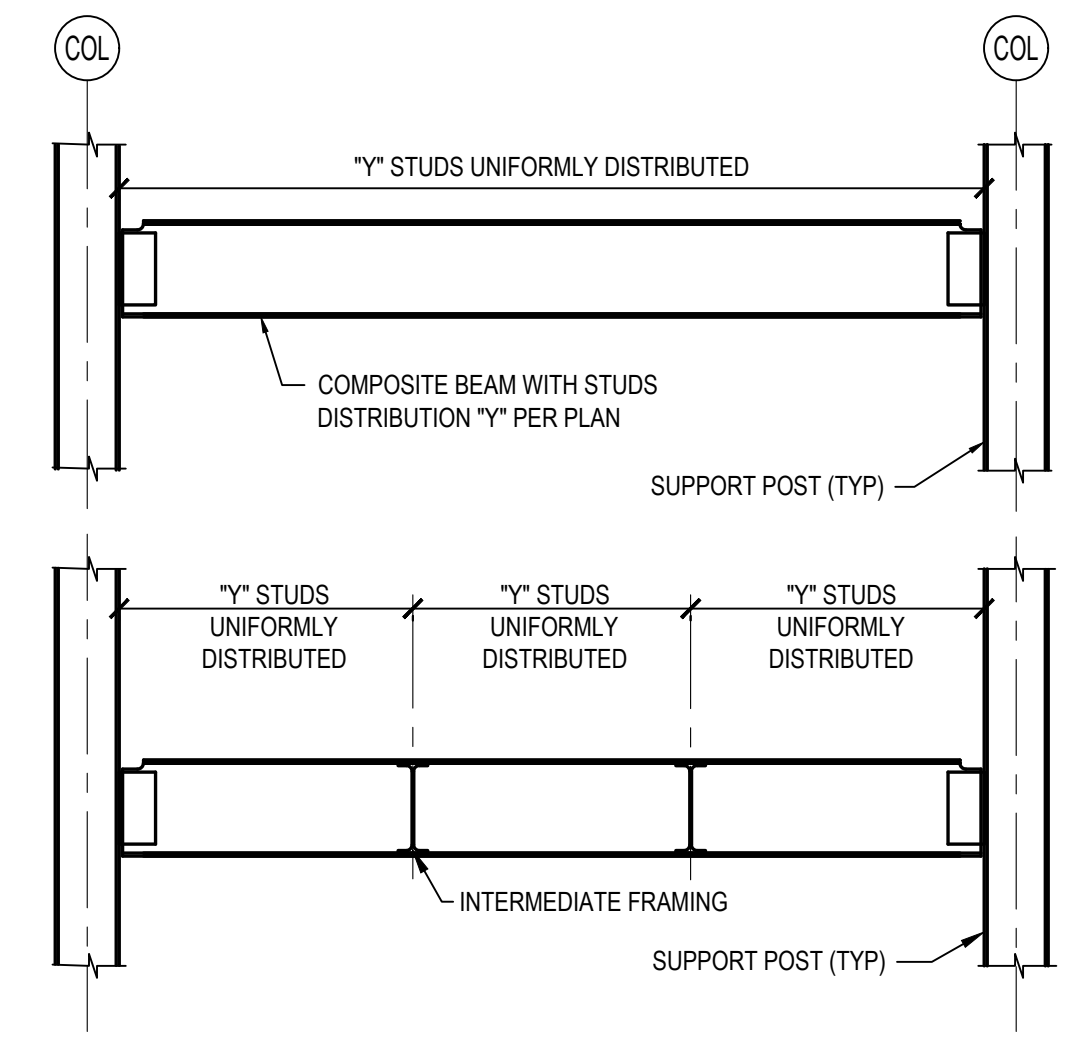
**TYPICAL EXTERIOR WALL FRAMING AT WINDOW OPENING UP TO 8'-8"**  
SCALE: 1/2" = 1'-0"

**TYPICAL LIGHT GAUGE CONSTRUCTION DETAILS FOR NON-LOAD BEARING EXTERIOR WALLS**

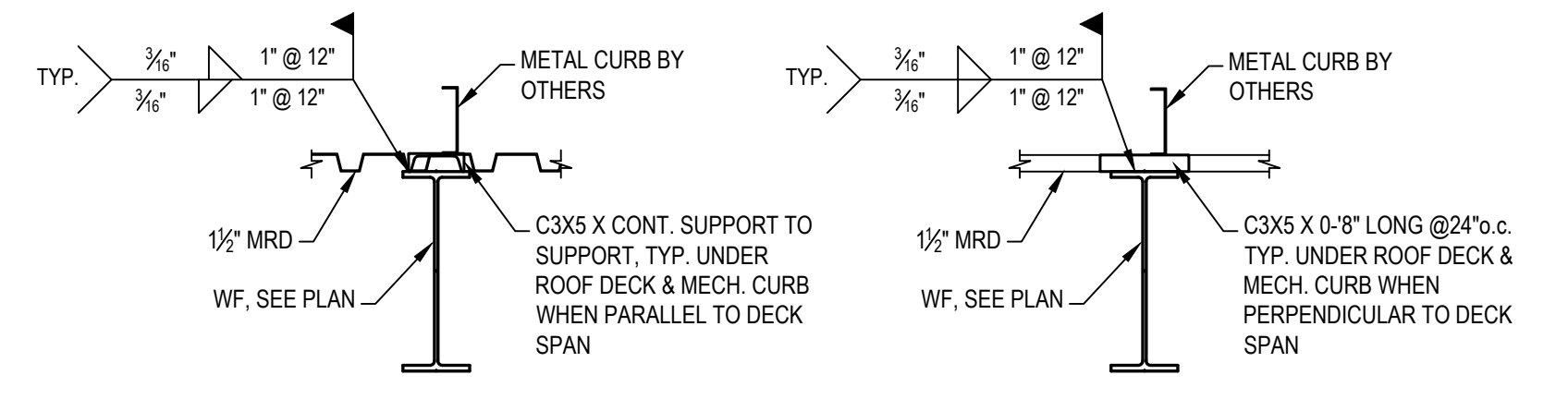
NOTE: THESE DETAILS ARE GENERIC AND ARE FOR GENERAL INFORMATION AND BUDGET PRICING. ACTUAL DESIGN BY LIGHT GAUGE SUPPLIER AND ENGINEER.



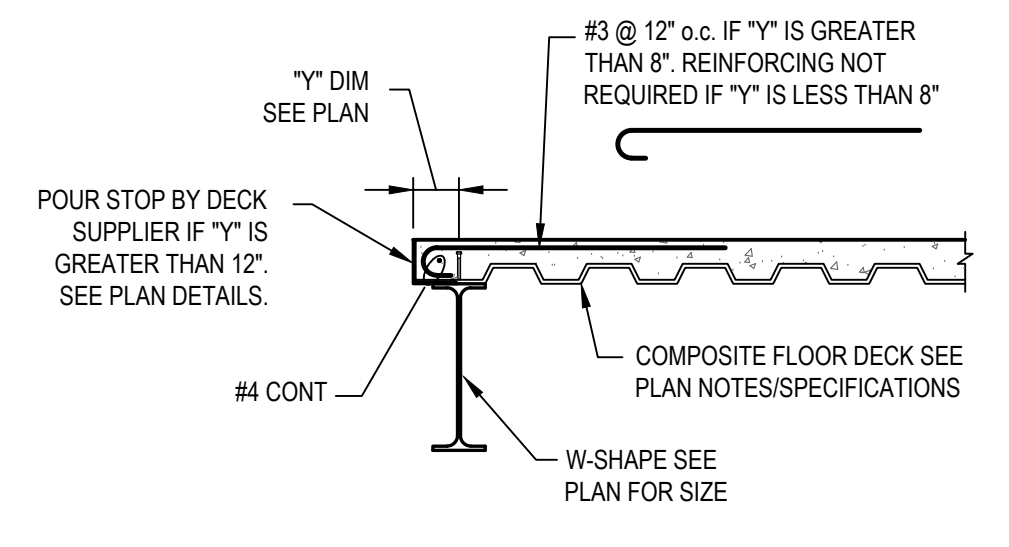
**TYPICAL SHEAR STUD DETAIL**  
SCALE: 1/2" = 1'-0"



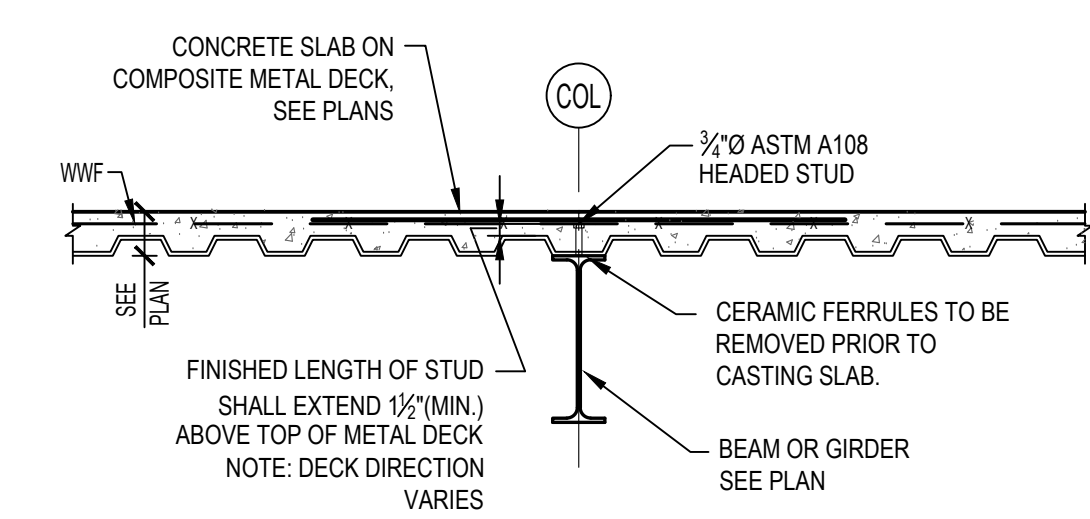
**TYPICAL COMPOSITE BEAM STUD DISTRIBUTION**  
SCALE: 1/2" = 1'-0"



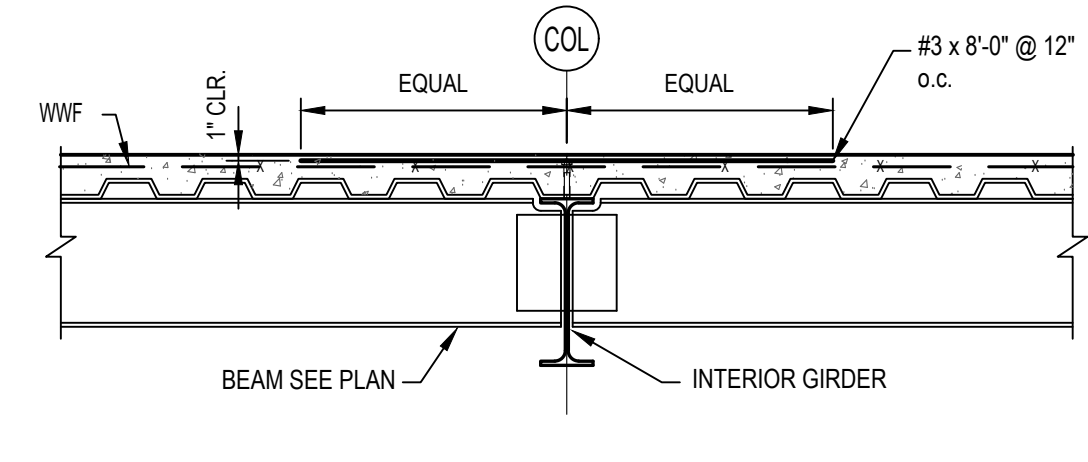
**HVAC CURB DETAILS**  
SCALE: 3/4" = 1'-0"



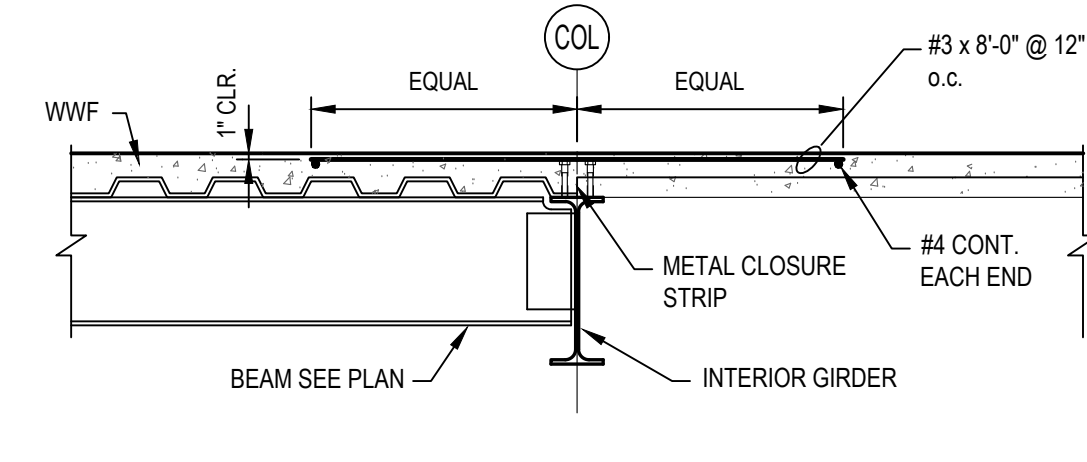
**TYPICAL INTERIOR EDGE OF FRAMED FLOOR SLAB**  
SCALE: 1/2" = 1'-0"



**TYPICAL SHEAR STUD DETAIL**  
SCALE: 1/2" = 1'-0"



**TYPICAL COMPOSITE SLAB REINFORCEMENT**  
SCALE: 1/2" = 1'-0"



**TYPICAL COMPOSITE SLAB REINFORCEMENT @ DECK SPAN CHANGE**  
SCALE: 1/2" = 1'-0"

MARK	DECK TYPE	THICKNESS		CONCRETE STRENGTH	REINFORCEMENT	CONC WEIGHT	TYPICAL LOCATION	COMMENTS
		CONC	TOTAL					
D1	1 1/2" DEEP 20ga. GALVANIZED ROOF TYPE 'B'	-	1/2"	-	-	-	TYP ROOF	-
D2	2" DEEP 20ga. GALVANIZED COMPOSITE TYPE 'A' (2.0/2.0) BY VULCRAFT OR APPROVED EQUAL	3/4"	5/8"	3,000psi	WWMs6xW2.1xW2.1	NORMAL	MEZZANINE	GRO COATING REQUIRED @ EXTERIOR
D3	1 1/2" DEEP 20ga. GALVANIZED ROOF TYPE 'B'	-	1/2"	-	WWMs6xW2.1xW2.1 OR 4bs / cy MACRO FIBER	-	SEE PLAN	ACOUSTICAL ROOF DECKS

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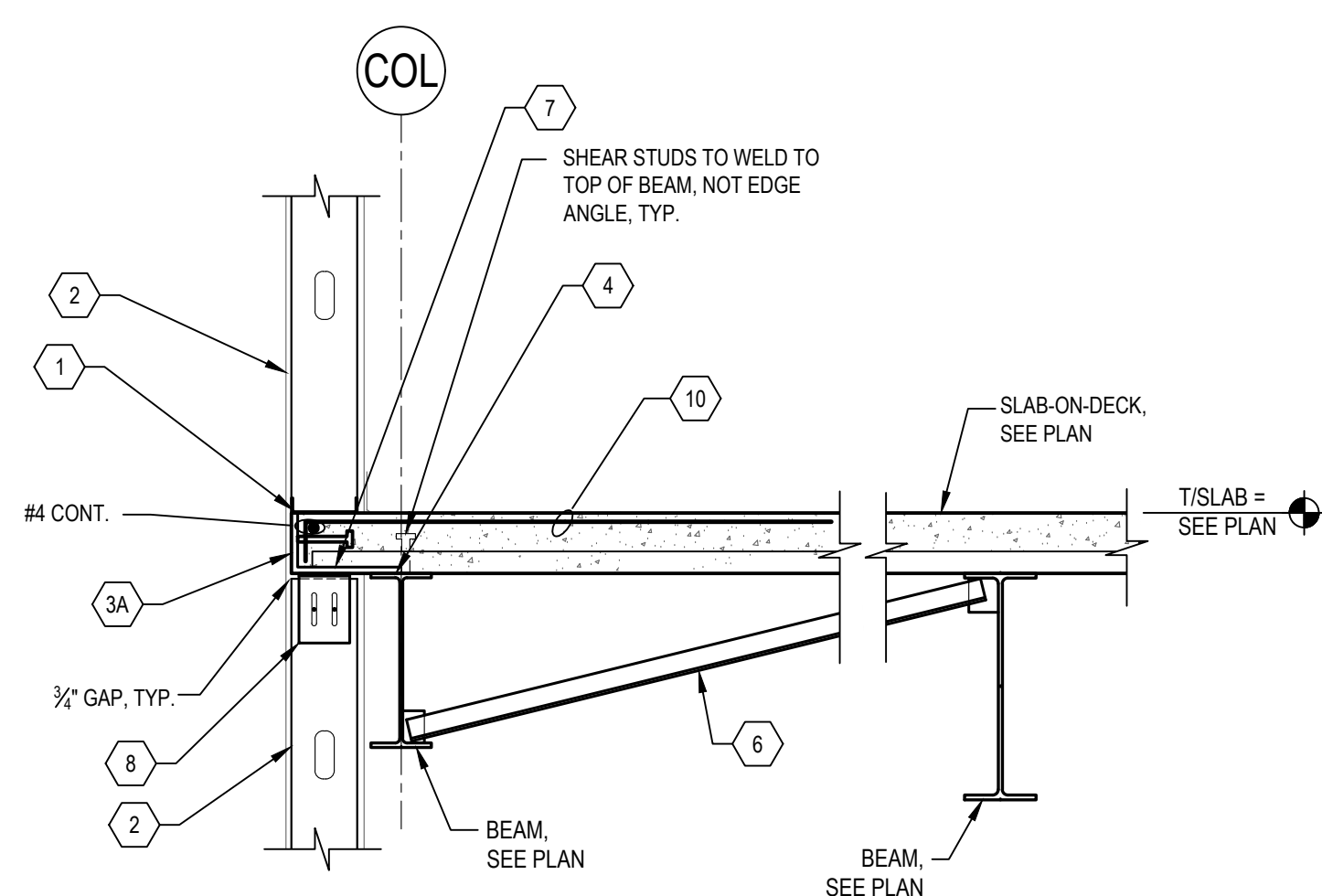
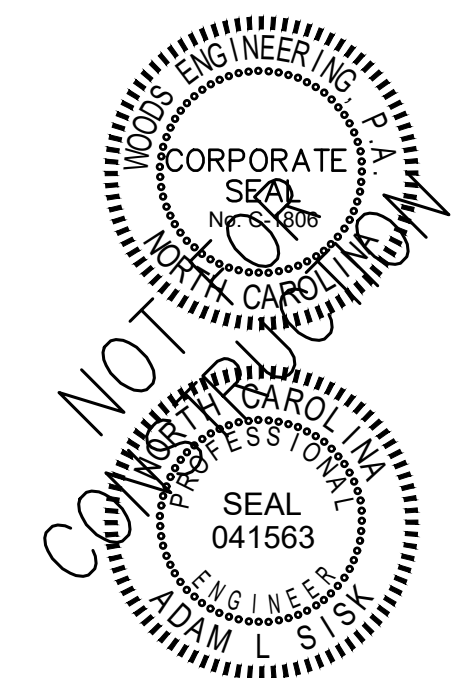
FRAMING DETAILS



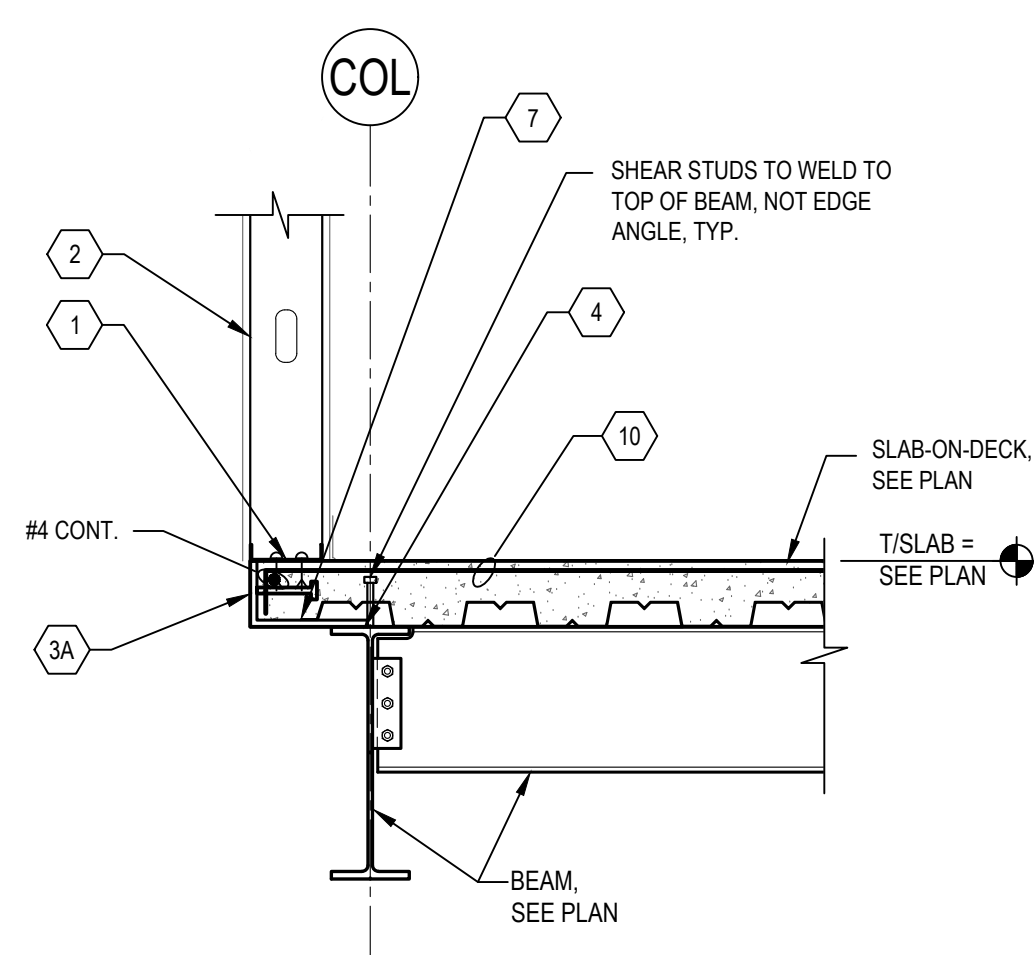
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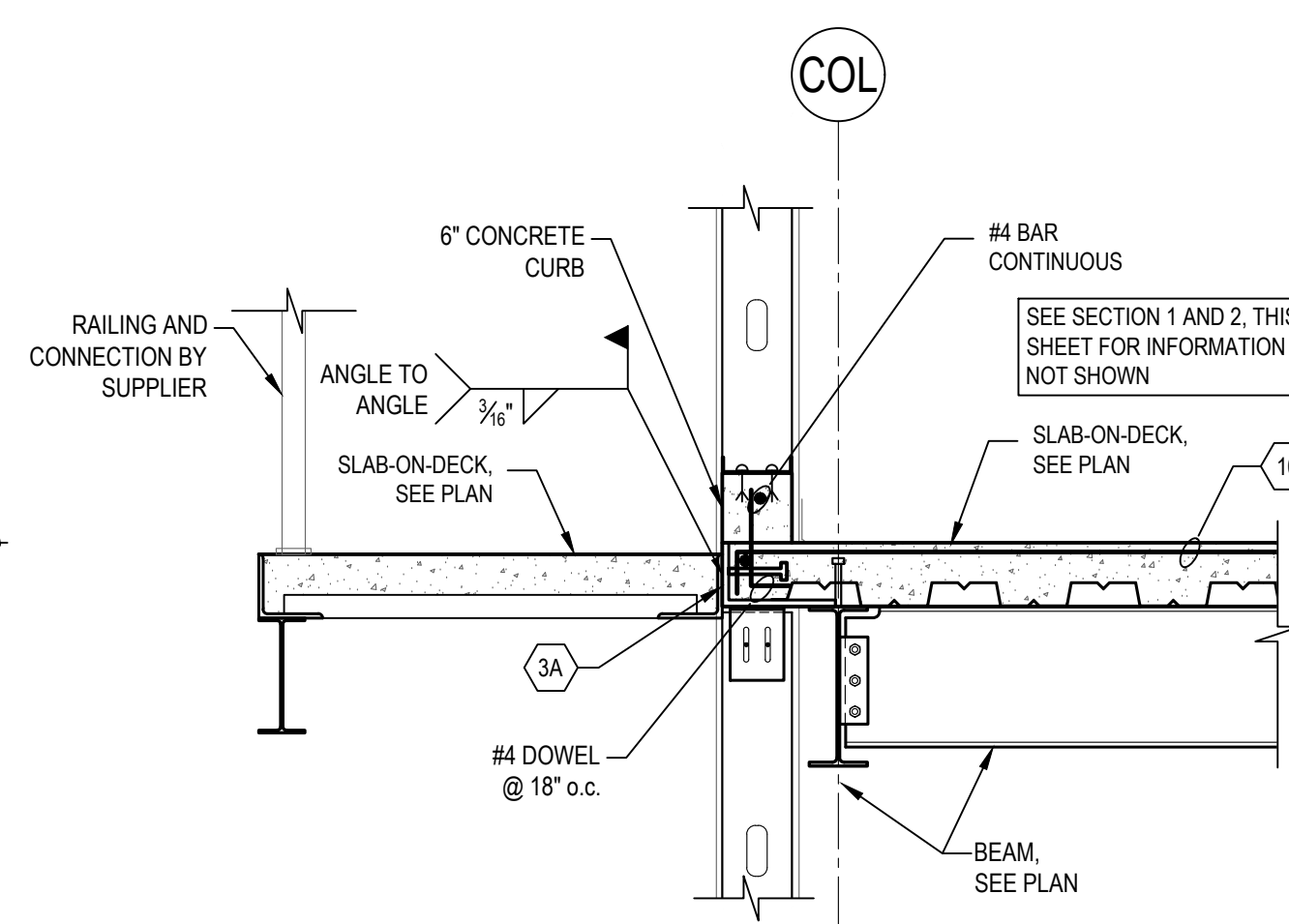
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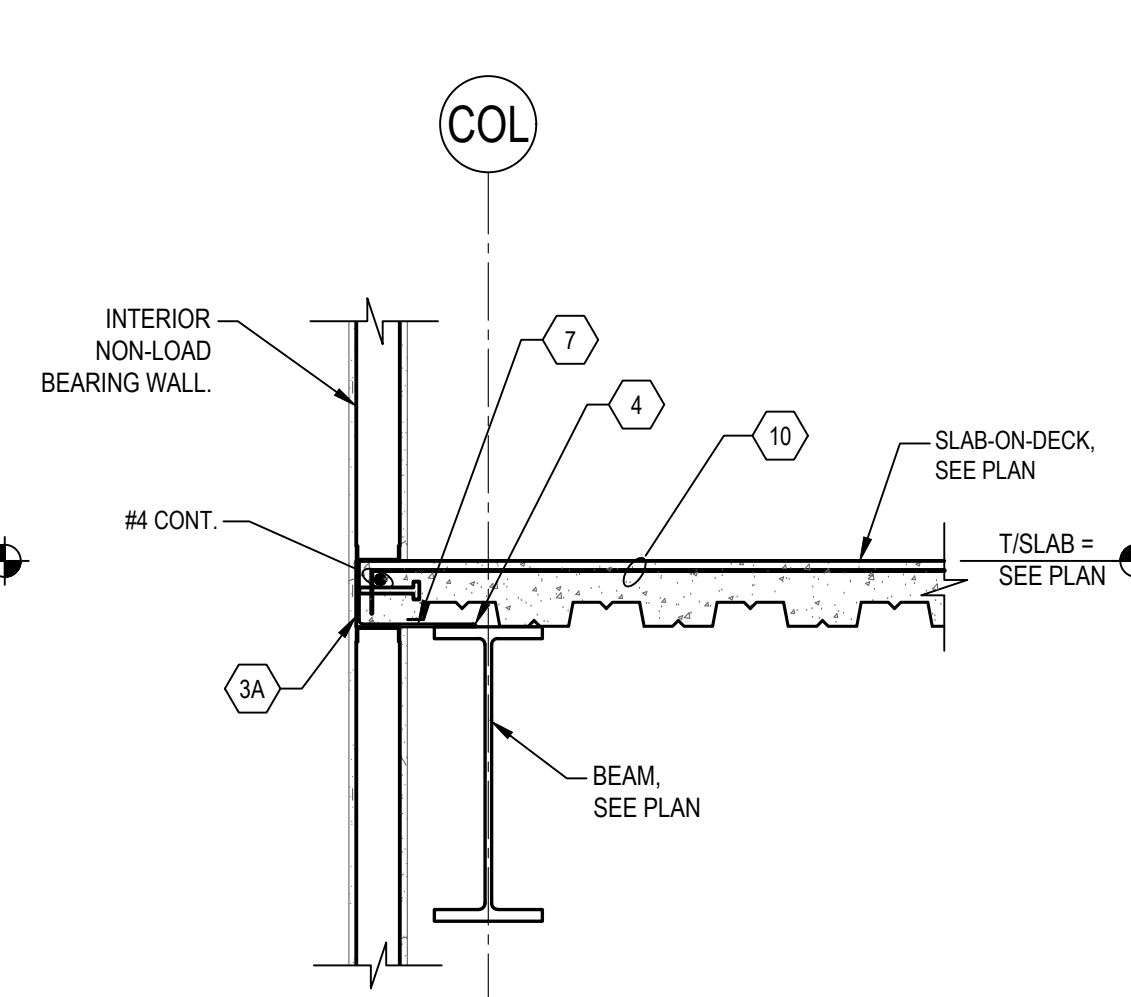
**SECTION 1**  
SCALE: 3/4" = 1'-0"  
FLOOR FRAMING AT SLAB EDGE  
PERPENDICULAR TO DECK SPAN



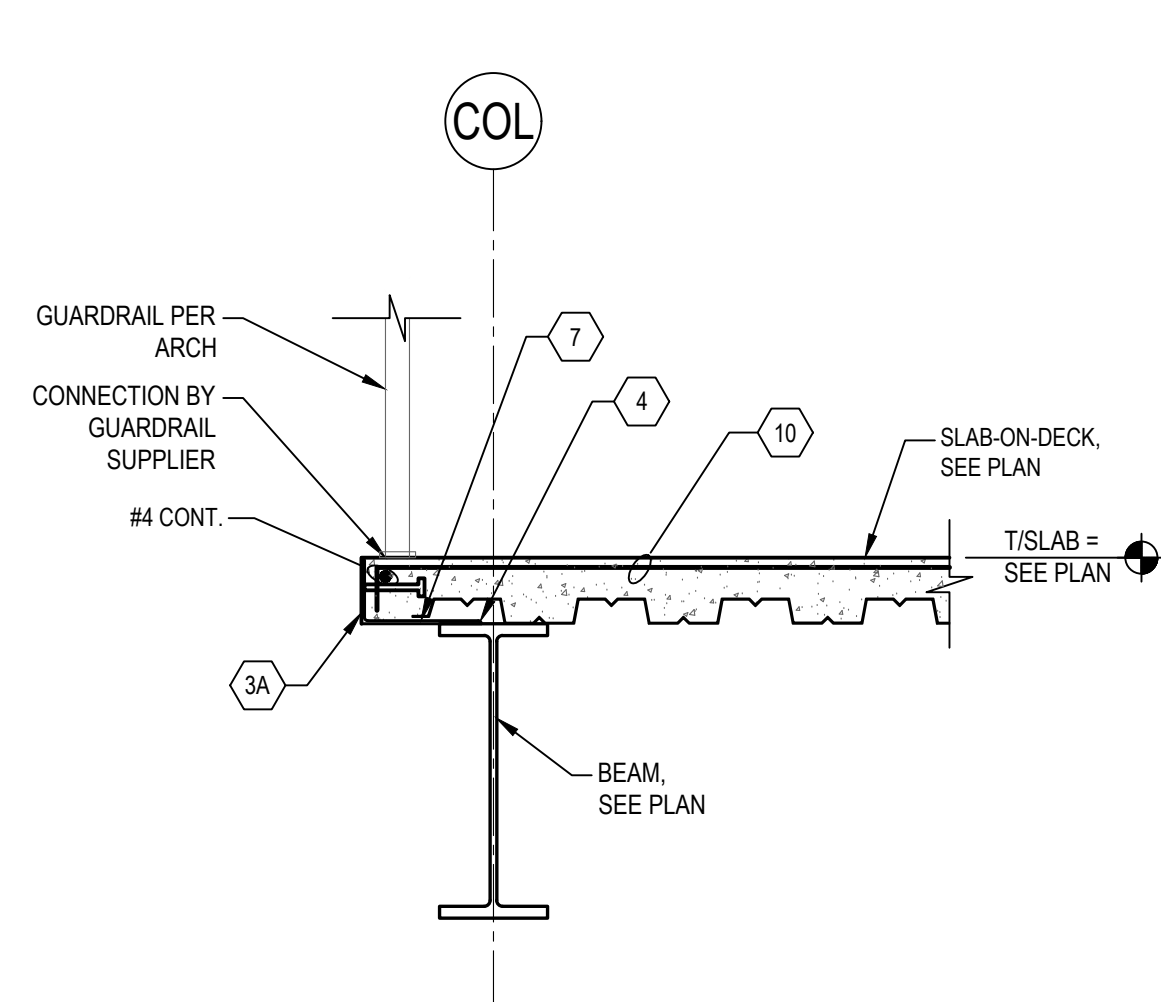
**SECTION 2**  
SCALE: 3/4" = 1'-0"  
FLOOR FRAMING AT SLAB EDGE  
PARALLEL TO DECK SPAN



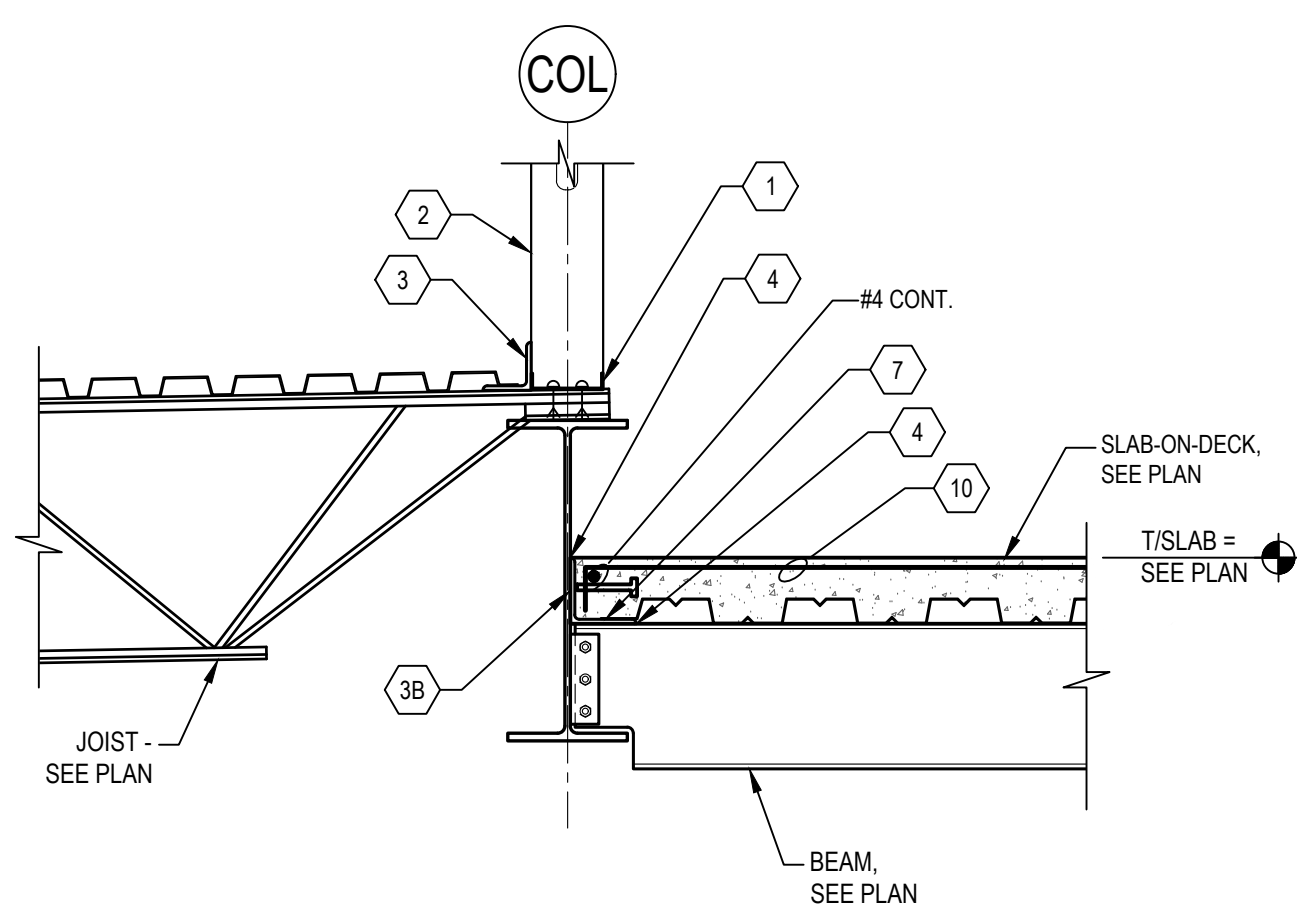
**SECTION 3**  
SCALE: 3/4" = 1'-0"  
ELEVATED EXTERIOR WALKWAY



**SECTION 4**  
SCALE: 3/4" = 1'-0"  
FLOOR FRAMING AT STAIR  
AND ELEVATOR OPENINGS



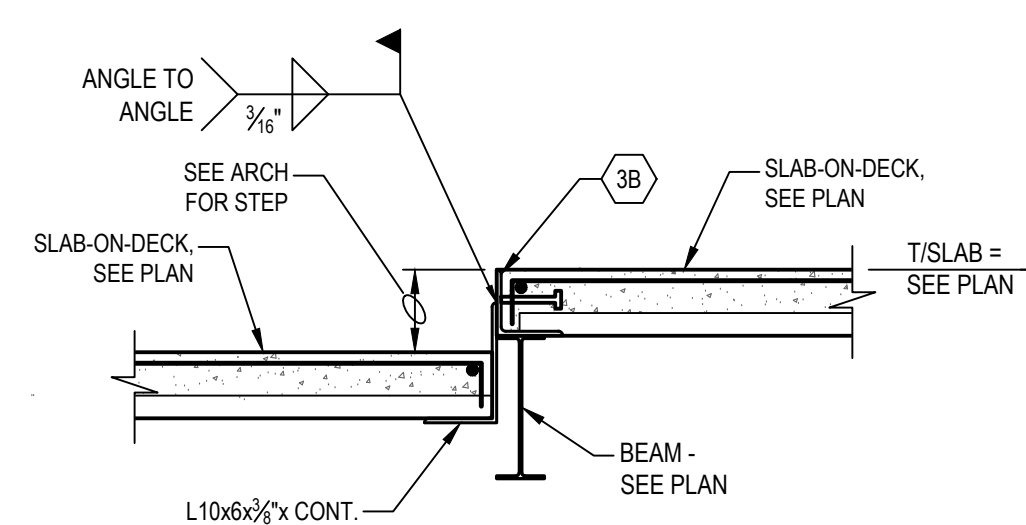
**SECTION 5**  
SCALE: 3/4" = 1'-0"  
FLOOR FRAMING AT MEZZANINE OPENINGS



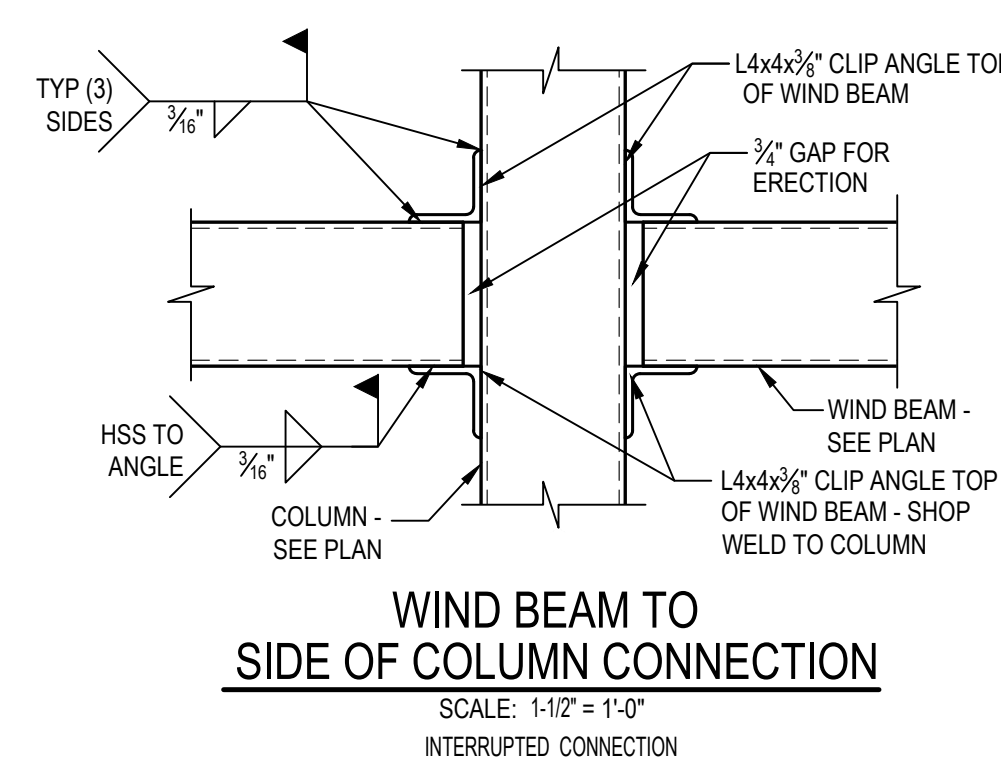
**SECTION 6**  
SCALE: 3/4" = 1'-0"

NOT USED

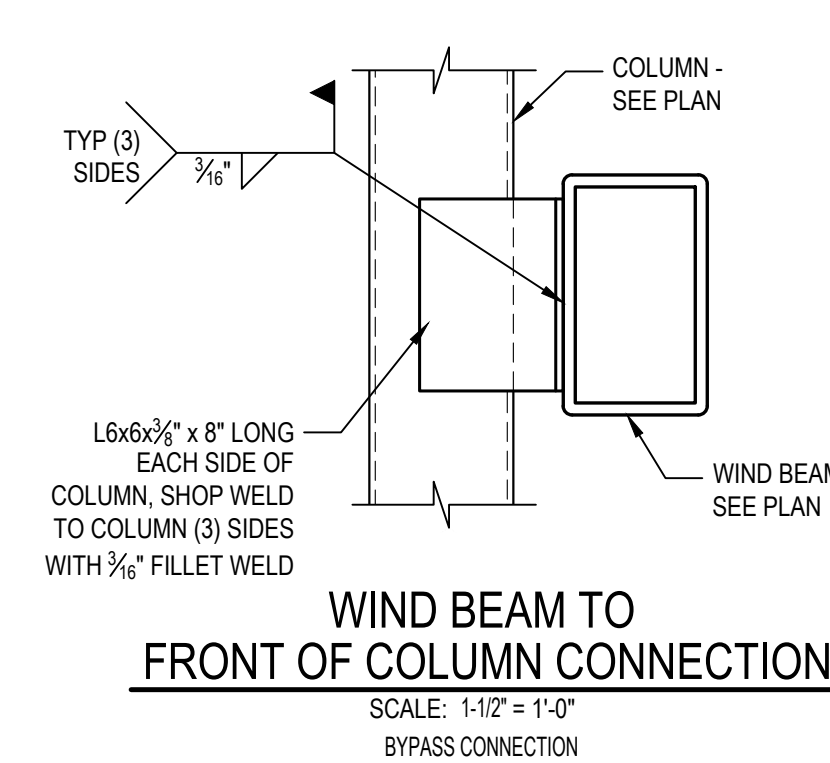
**SECTION 7**  
SCALE: 3/4" = 1'-0"



**SECTION 8**  
SCALE: 3/4" = 1'-0"  
DROPPED BEAM CONNECTION



**WIND BEAM TO  
SIDE OF COLUMN CONNECTION**  
SCALE: 1-1/2" = 1'-0"  
INTERRUPTED CONNECTION



**WIND BEAM TO  
FRONT OF COLUMN CONNECTION**  
SCALE: 1-1/2" = 1'-0"  
BYPASS CONNECTION

SECTION NOTES SCHEDULE			
MARK	LOCATION	REQUIREMENT	COMMENTS
(1)	TYPICAL CFS TRACK	600T125-54x CONT. MIN. FINAL DESIGN BY DD.	-
(1A)	TYPICAL 8" CFS TRACK	800T125-54x CONT. MIN. FINAL DESIGN BY DD.	-
(2)	TYPICAL CFS STUD	600S162-54 @ 16" o.c. MIN. FINAL DESIGN BY DD.	-
(2A)	TYPICAL 8" CFS STUD	800S250-68 @ 12" o.c. MIN. FINAL DESIGN BY DD.	-
(3)	EDGE ANGLE	L4x4x3/8"	-
(3A)	TYP SLAB EDGE ANGLE AT EXTERIOR	5 1/2" x 12" x 3/8" x CONT BENT PLATE LLH	-
(3B)	TYP SLAB EDGE ANGLE AT EXTERIOR	5 1/2" x 5 1/2" x 3/8" x CONT BENT PLATE	-
(4)	ANGLE TO BEAM CONNECTION	3/4" / 2" @ 12"	ANGLE TO BEAM
(5)	ANGLE TO JOIST CONNECTION	3/4" / 2" @ 12"	ANGLE TO JOIST
(6)	BOTTOM FLANGE BRACING	L2x2x2 1/2" KICKER WHERE NOTED ON PLAN "BFB" W/ 1/2" WELD PLATES EACH END, TYP.	-
(7)	DECK TO ANGLE CONNECTION	HILTI X-HSN @ 12" o.c. OR 3/8" PUDDLE WELDS @ 12" o.c. TYP DECK TO ANGLE	-
(8)	DEFLECTION CONNECTION	CFS DEFLECTION CLIP BY DD	-
(9)	RIGID CONNECTION	RIGID CLIP BY DD	-
(10)	REBAR AT SLAB EDGE	4'-0" #4 @ 32" o.c.	-

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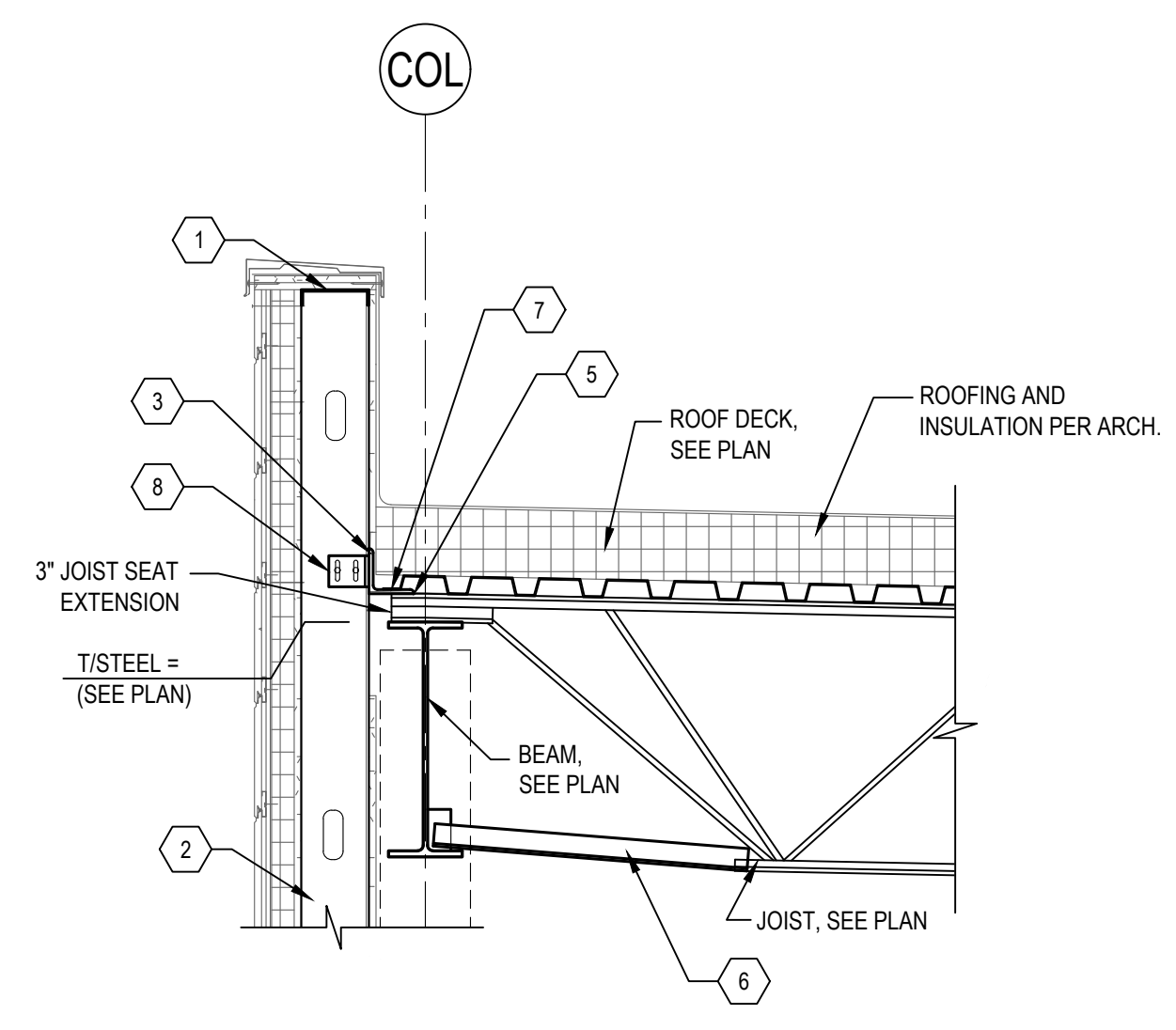
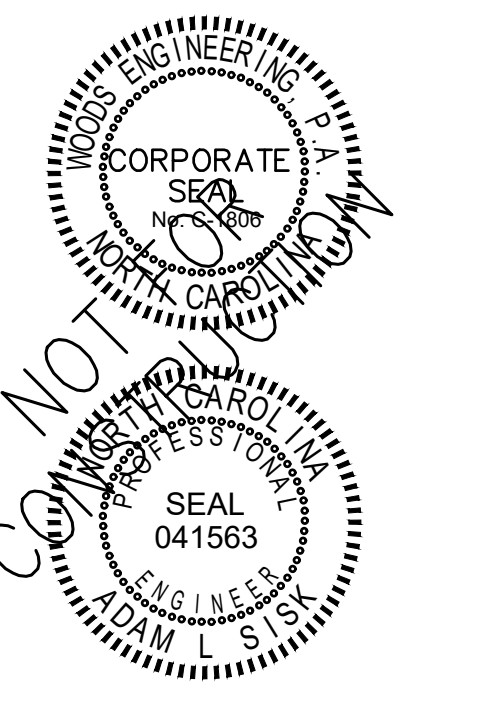
FRAMING SECTIONS



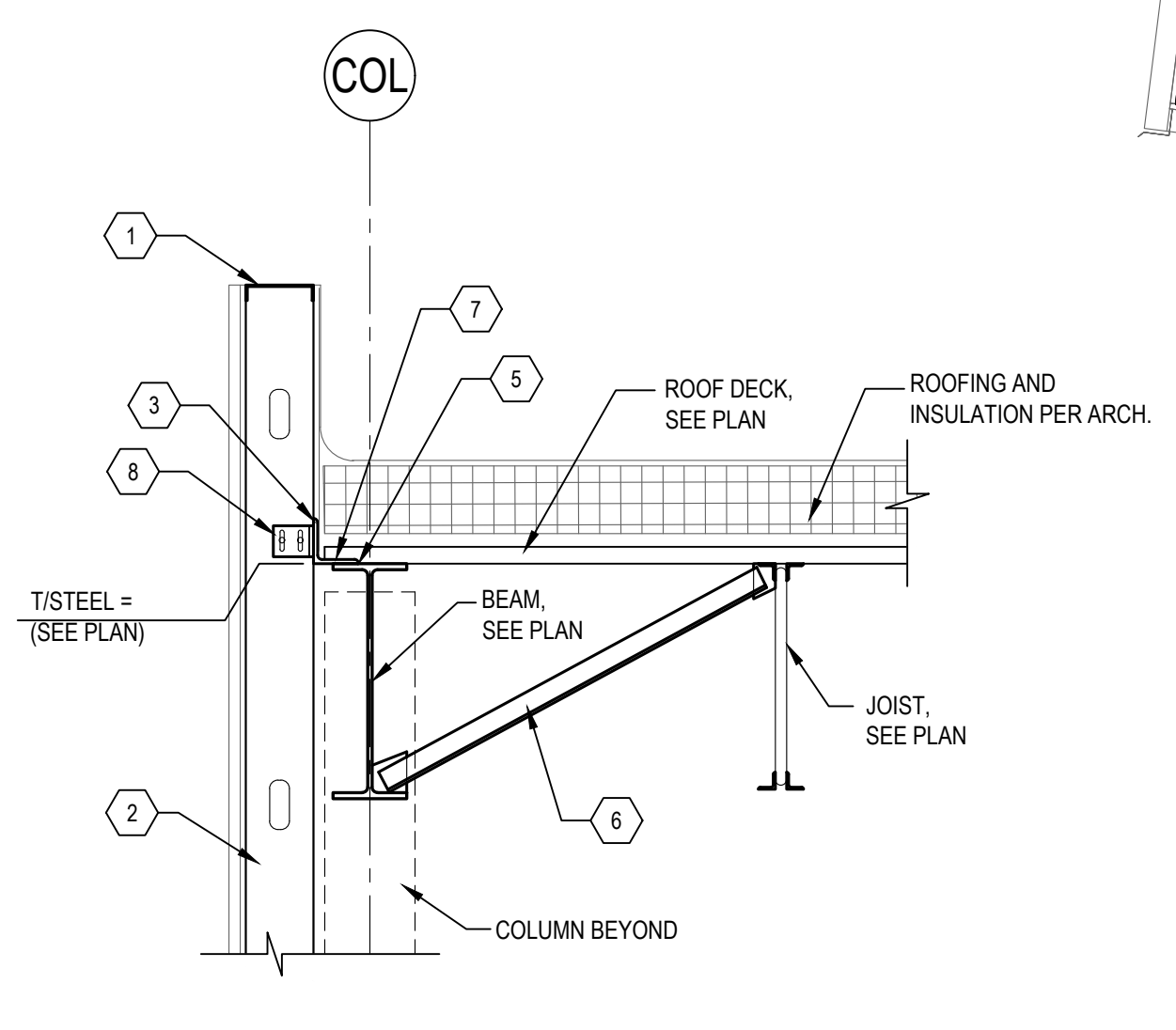
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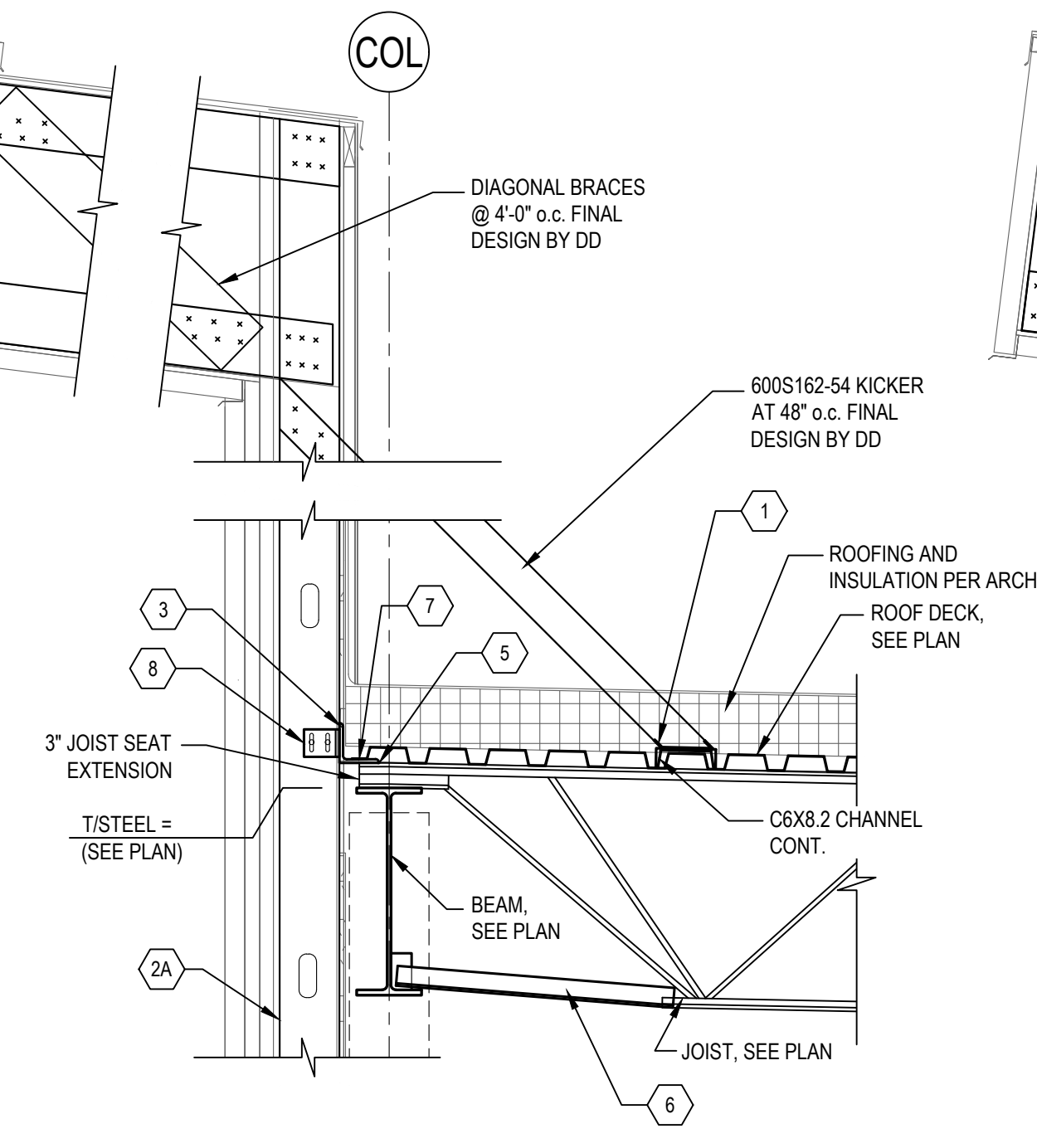
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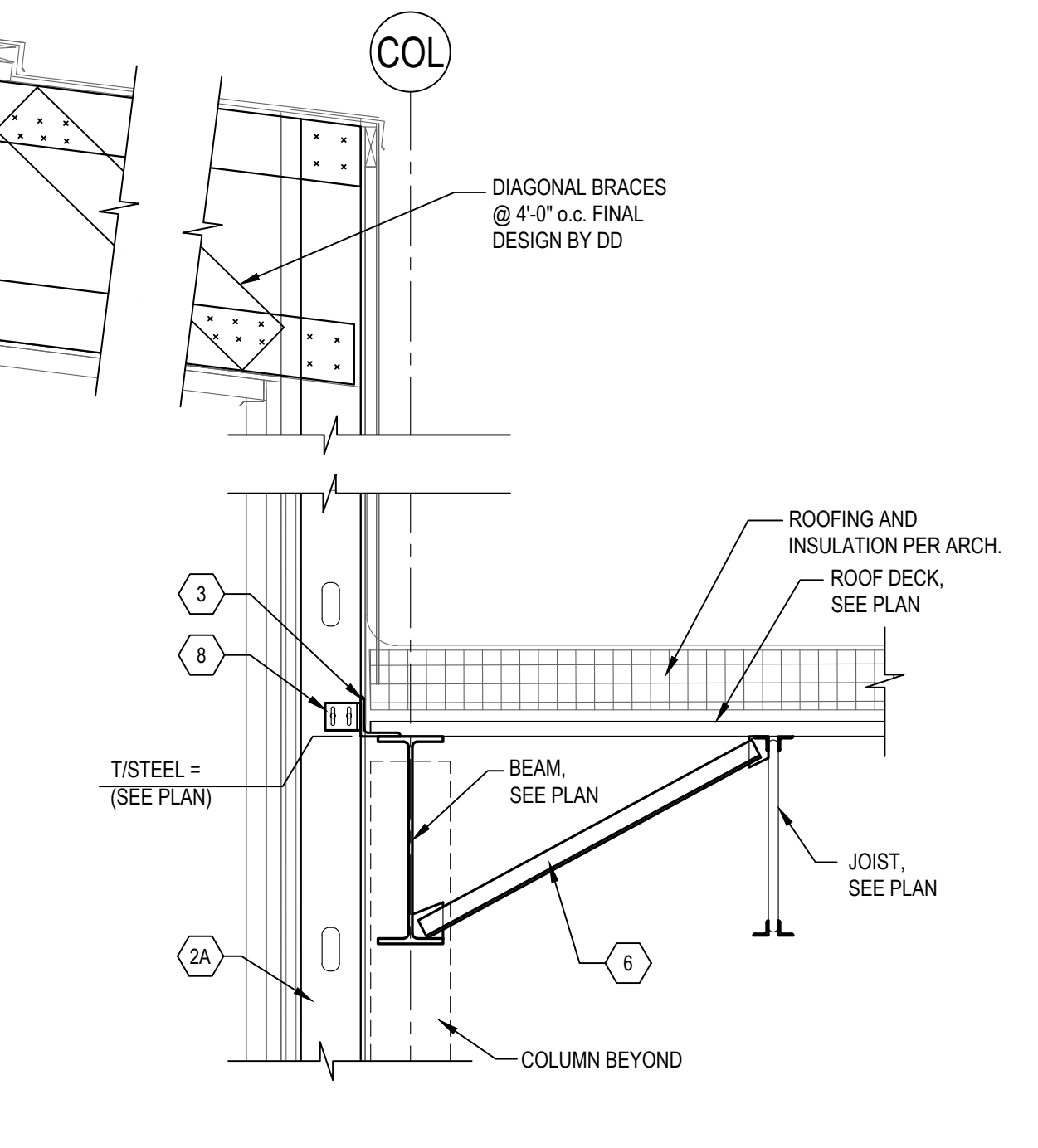
**SECTION 1**  
SCALE: 3/4" = 1'-0"  
EXTERIOR WALL PERPENDICULAR TO FLOOR JOIST



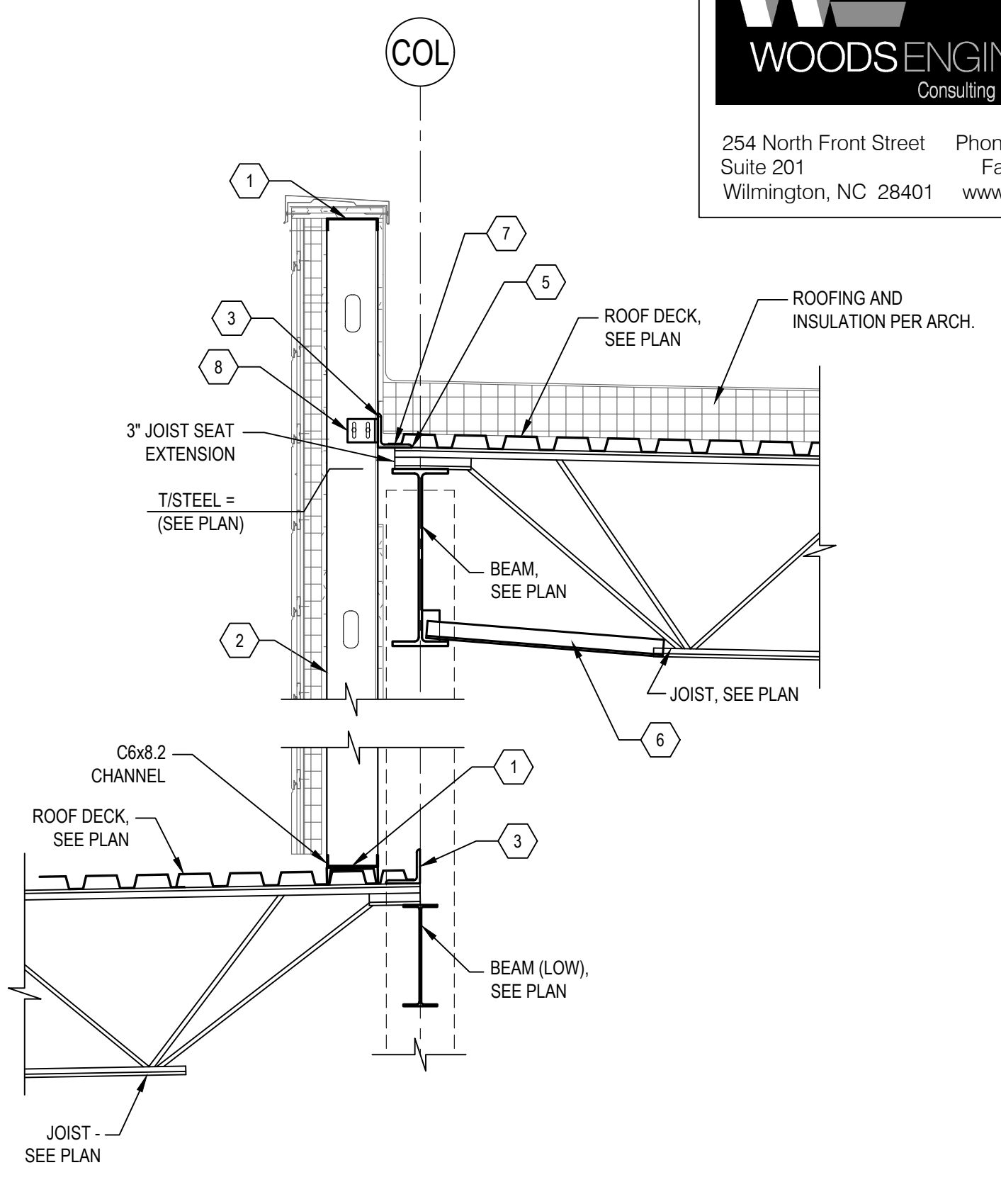
**SECTION 2**  
SCALE: 3/4" = 1'-0"  
EXTERIOR WALL PARALLEL TO FLOOR JOIST



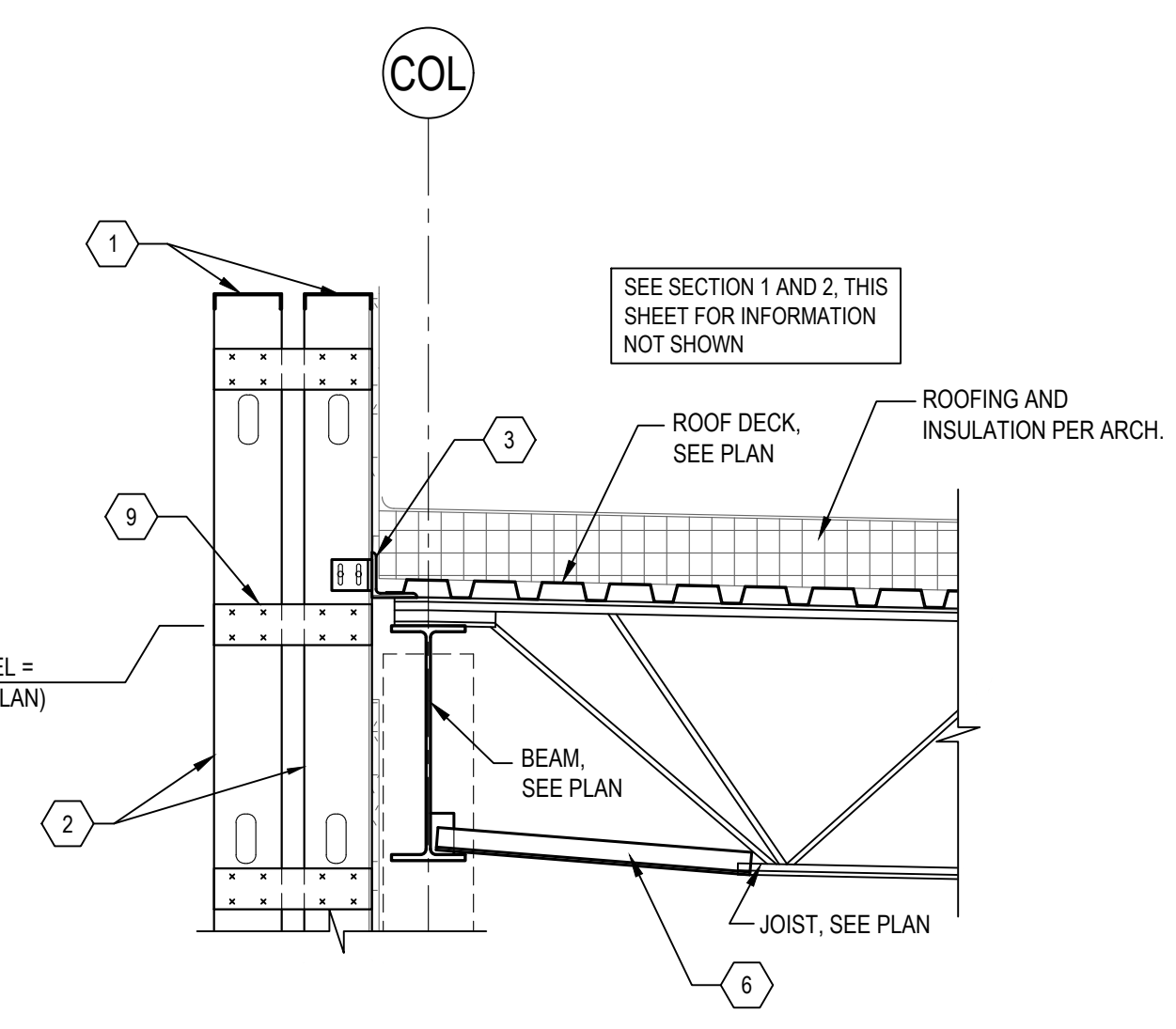
**SECTION 3**  
SCALE: 3/4" = 1'-0"



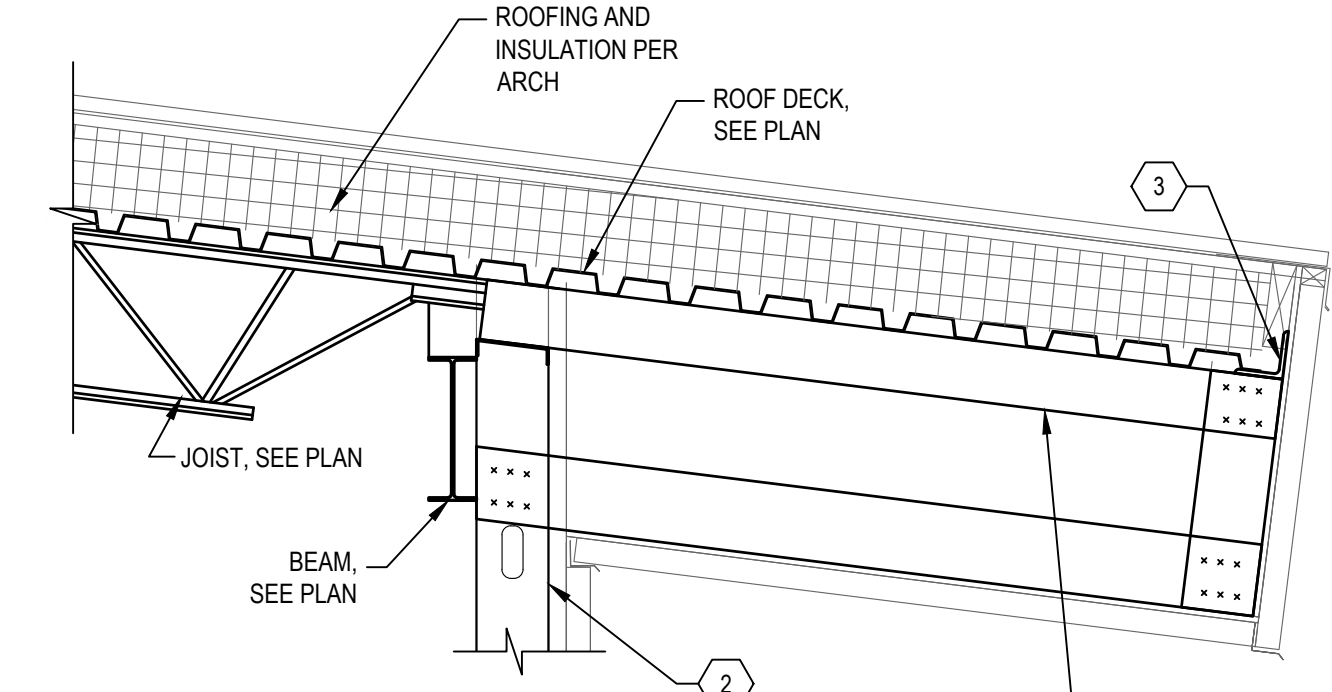
**SECTION 4**  
SCALE: 3/4" = 1'-0"



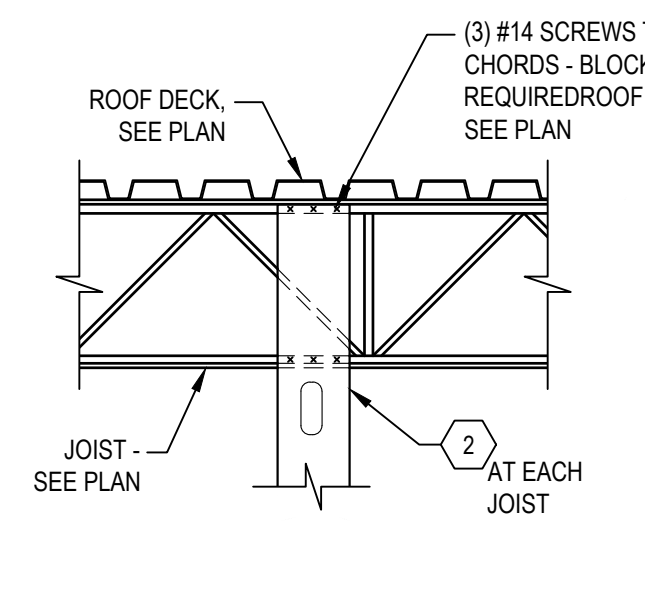
**SECTION 5**  
SCALE: 3/4" = 1'-0"



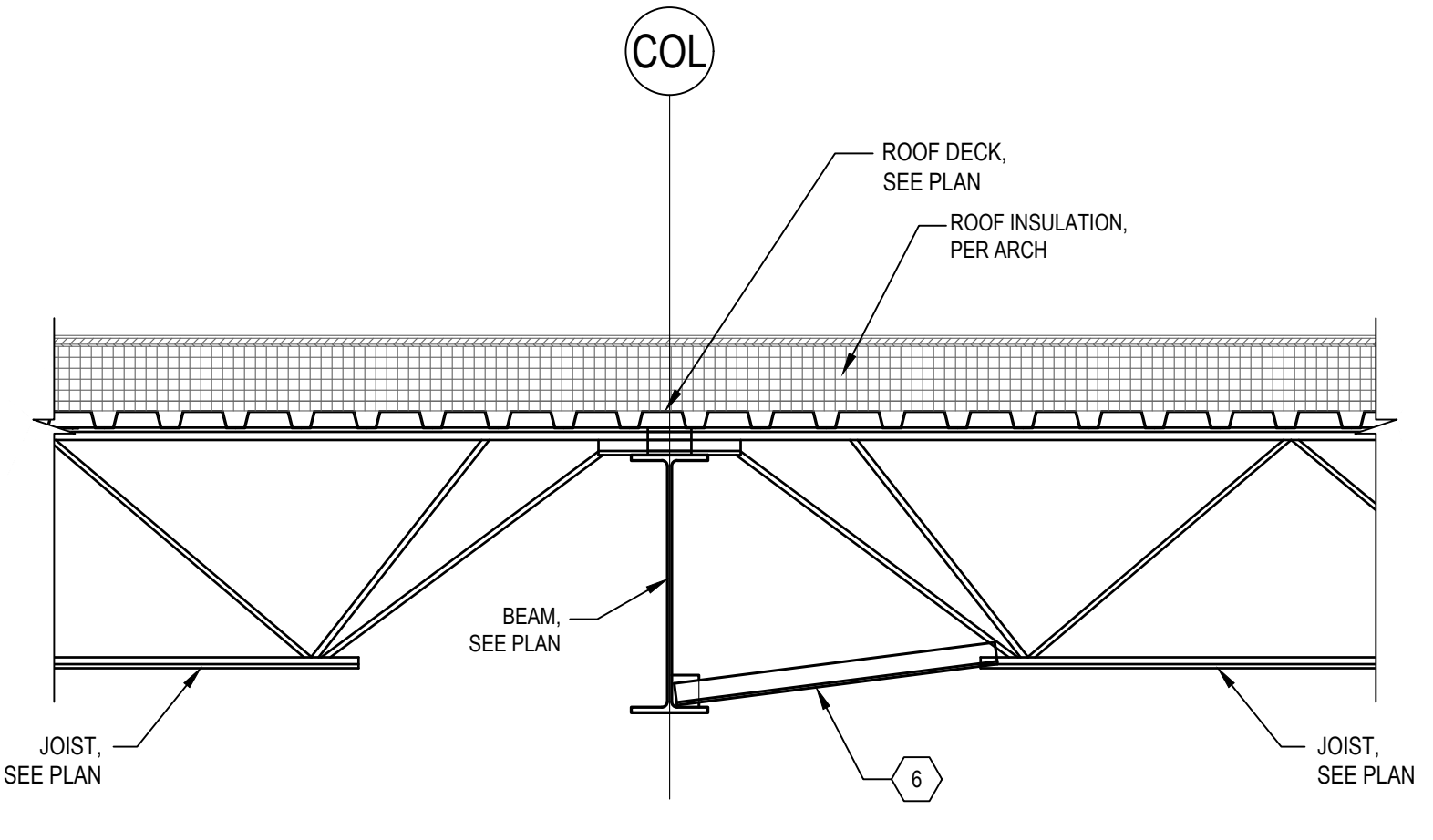
**SECTION 6**  
SCALE: 3/4" = 1'-0"



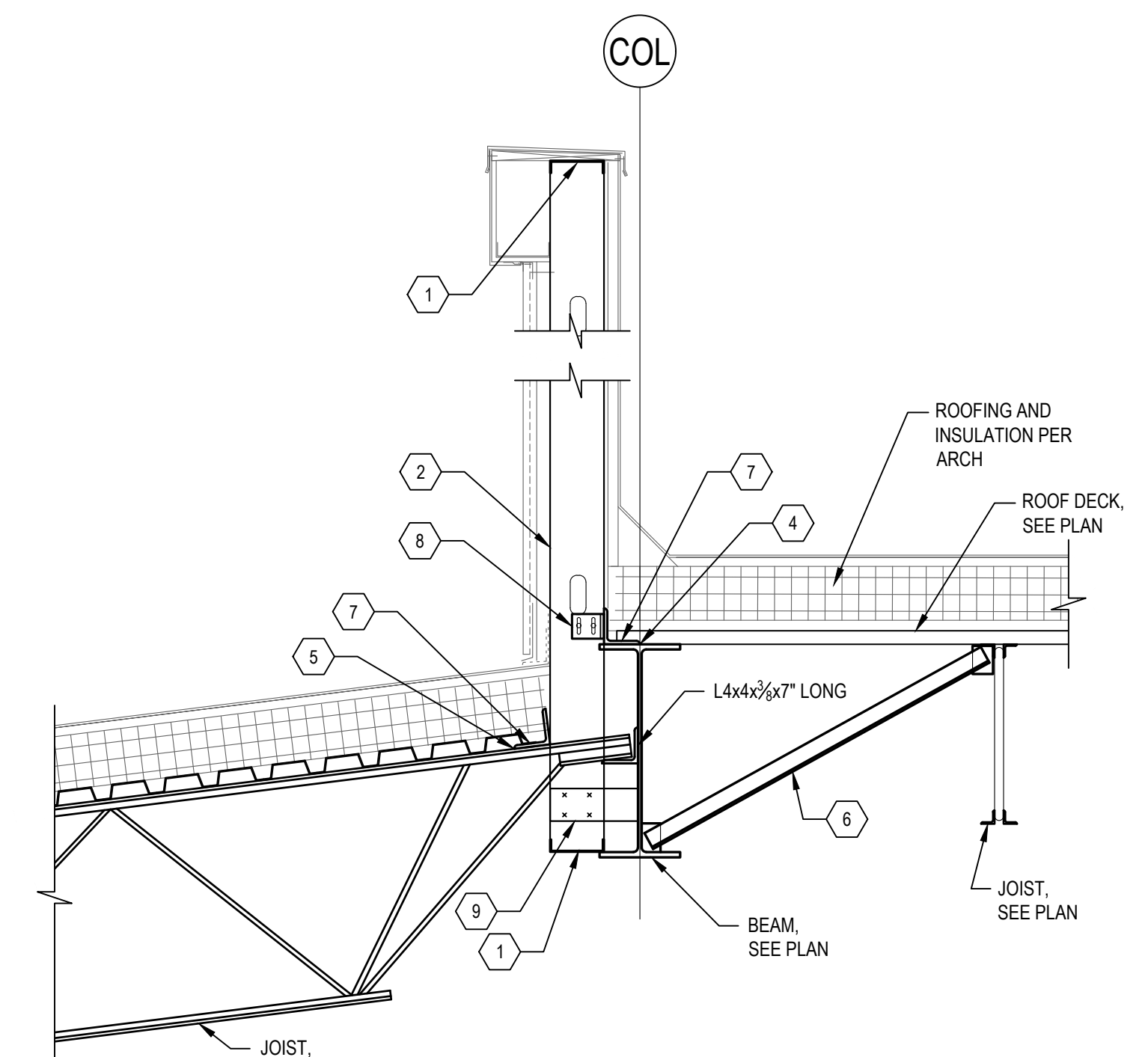
**SECTION 7**  
SCALE: 3/4" = 1'-0"



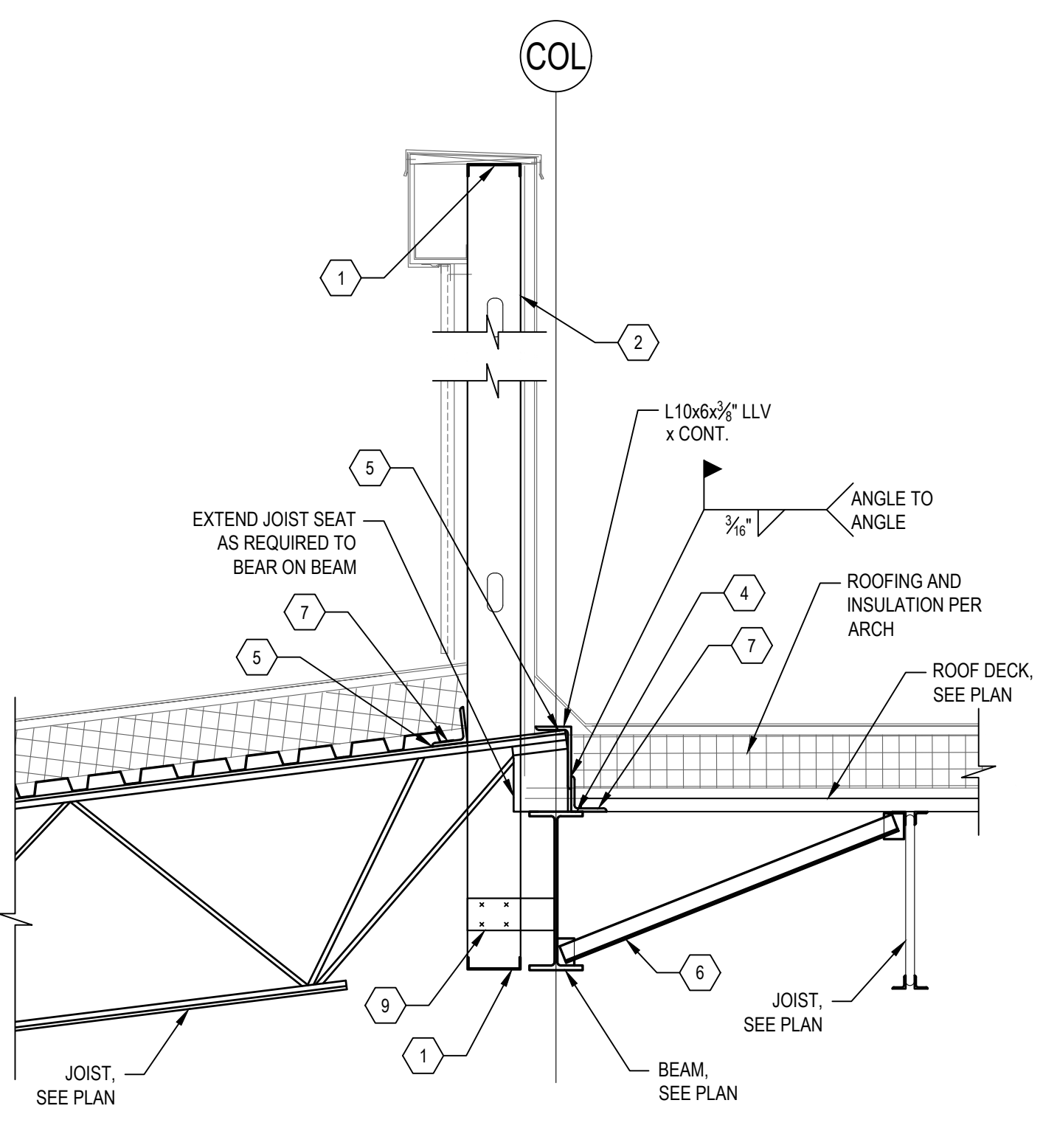
**SECTION 8**  
SCALE: 3/4" = 1'-0"  
HANGING WALL @  
BOWLING ALLEY



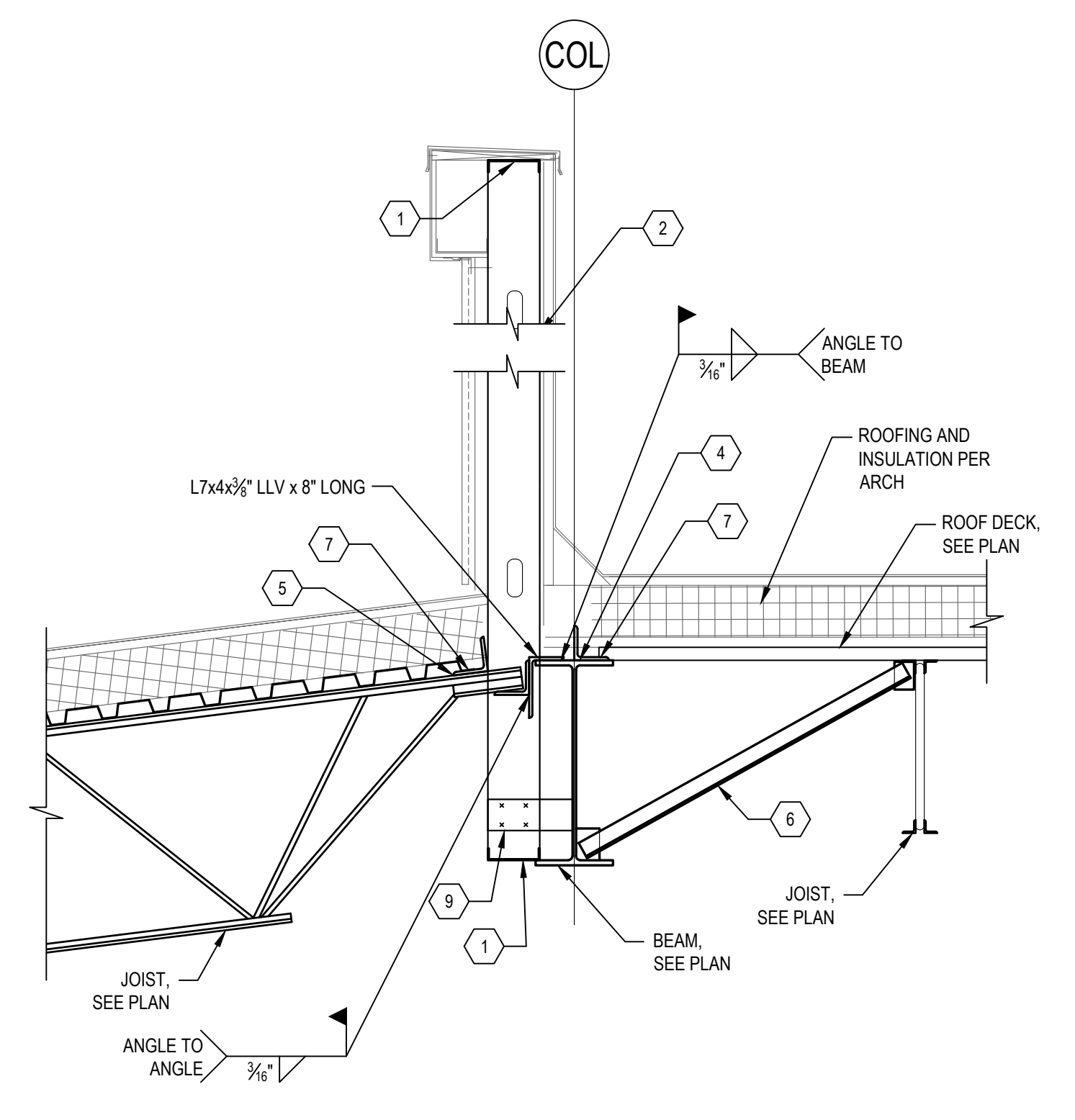
**SECTION 9**  
SCALE: 3/4" = 1'-0"



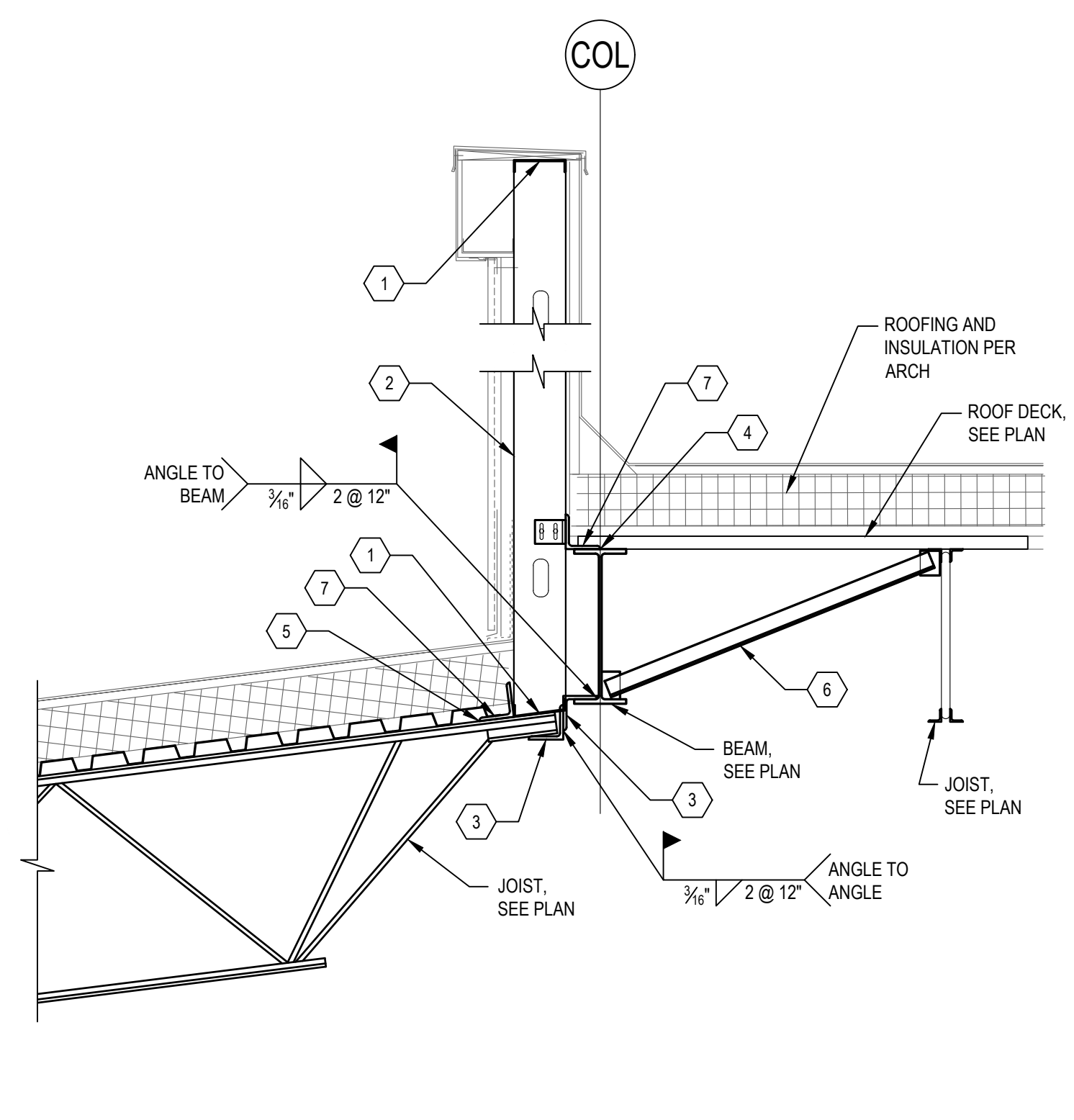
**SECTION 10**  
SCALE: 3/4" = 1'-0"



**SECTION 11**  
SCALE: 3/4" = 1'-0"  
CONNECTION WHERE JOIST MEETS BEAM FLANGE



**SECTION 12**  
SCALE: 3/4" = 1'-0"  
CONNECTION WHERE JOIST MEETS BEAM FLANGE



**SECTION 13**  
SCALE: 3/4" = 1'-0"  
CONNECTION WHERE JOIST MEETS BEAM FLANGE

SEE S-411 FOR FASTENING  
NOTE SCHEDULE

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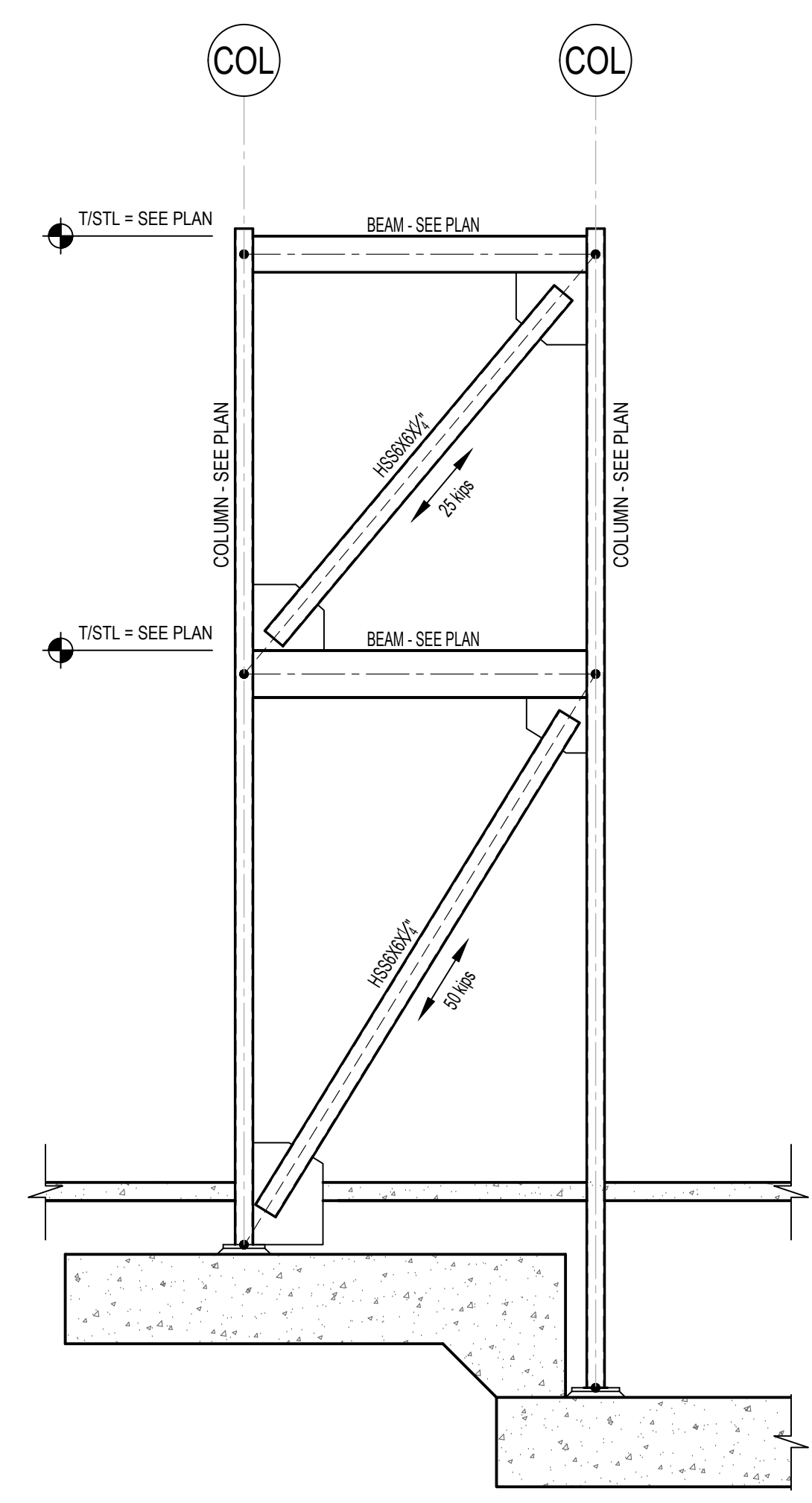
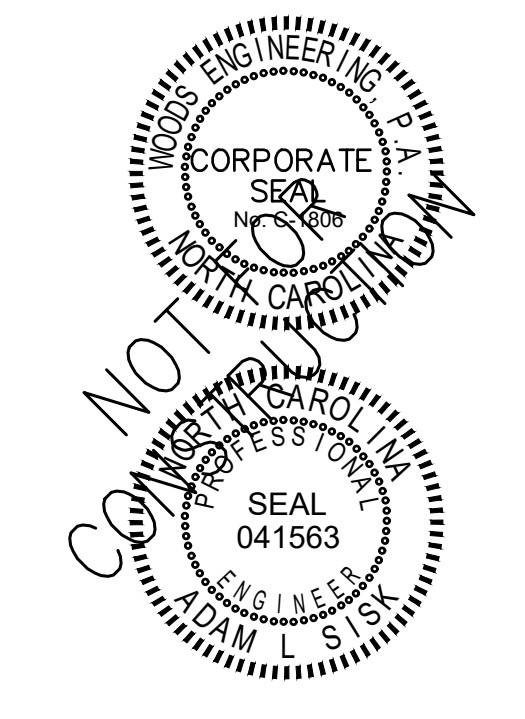
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ROOF FRAMING  
SECTIONS

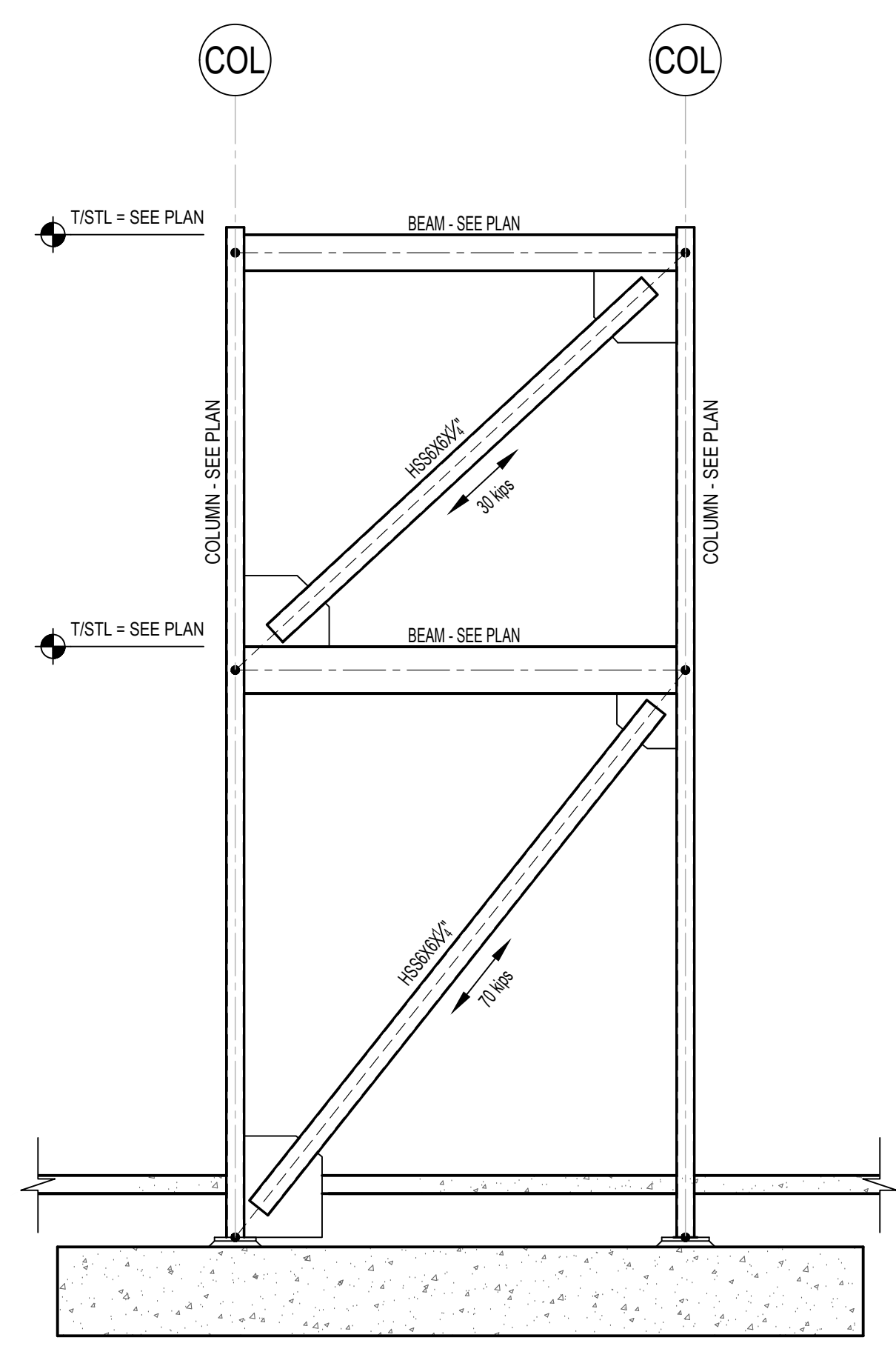
Date 11/21/2025 Scale As Noted  
Drawn Job  
Sheet



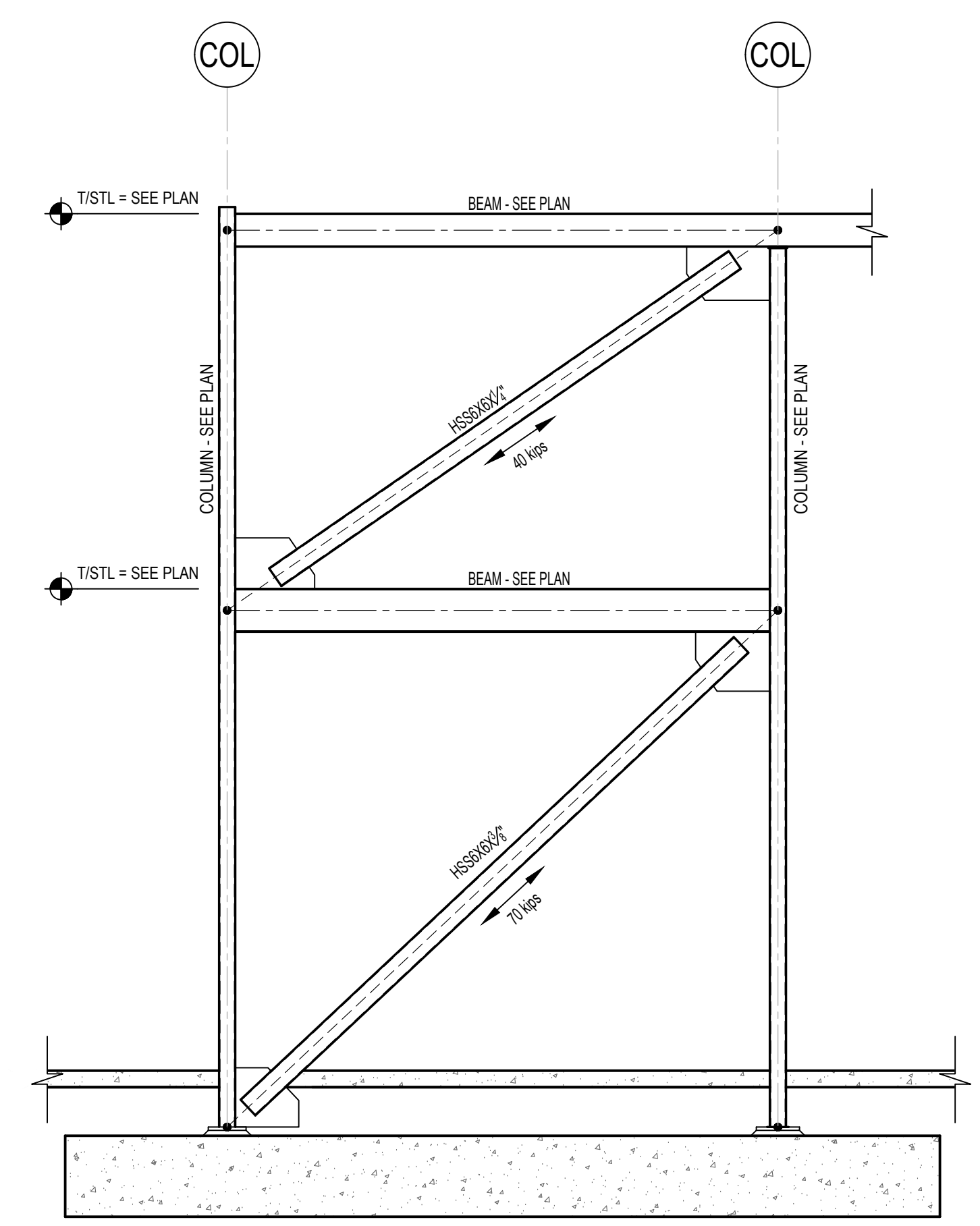
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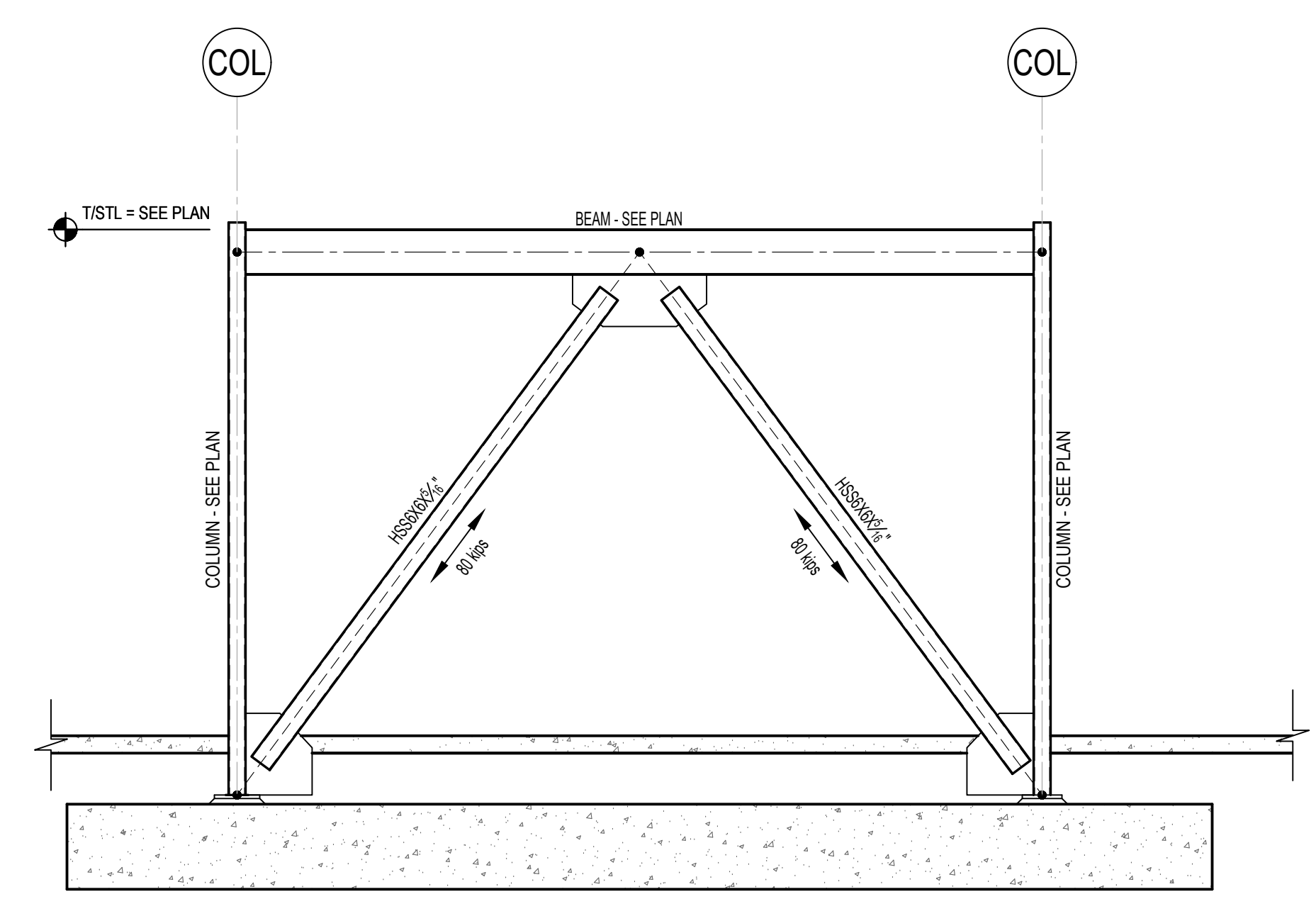
**BRACE FRAME #1 ELEVATION**  
SCALE: 1/4" = 1'-0"



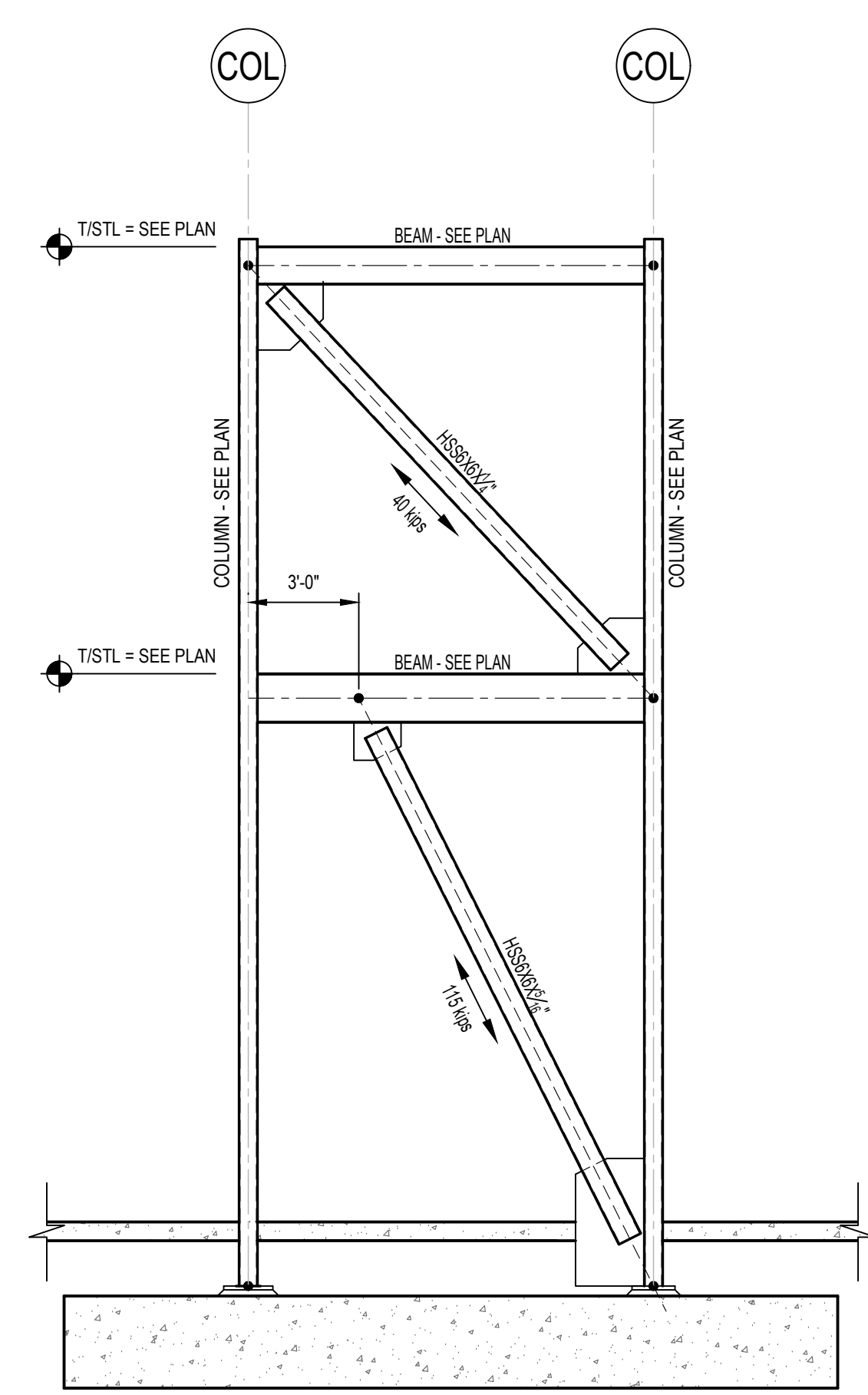
**BRACE FRAME #2 ELEVATION**  
SCALE: 1/4" = 1'-0"



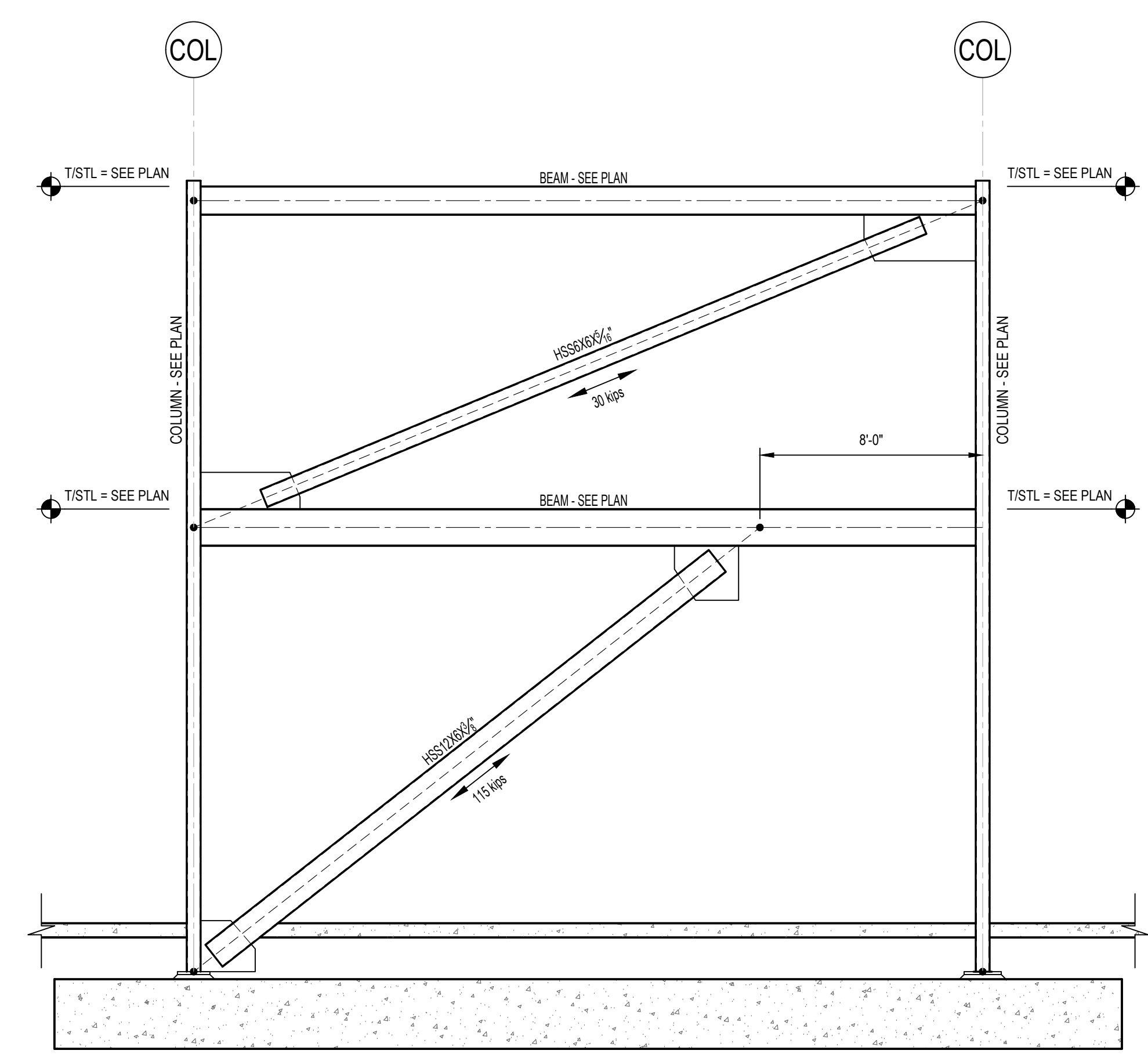
**BRACE FRAME #3 ELEVATION**  
SCALE: 1/4" = 1'-0"



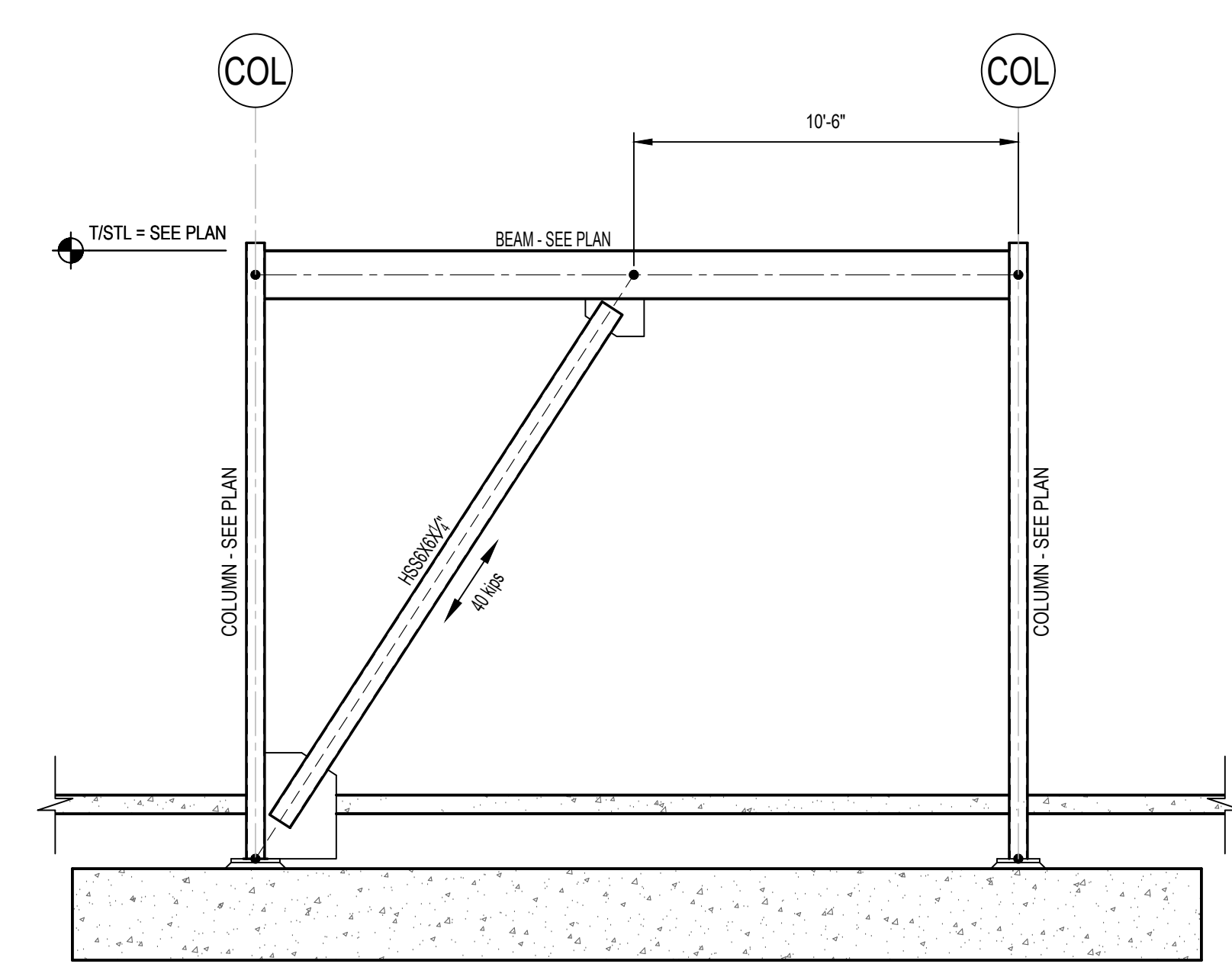
**BRACE FRAME #4 ELEVATION**  
SCALE: 1/4" = 1'-0"



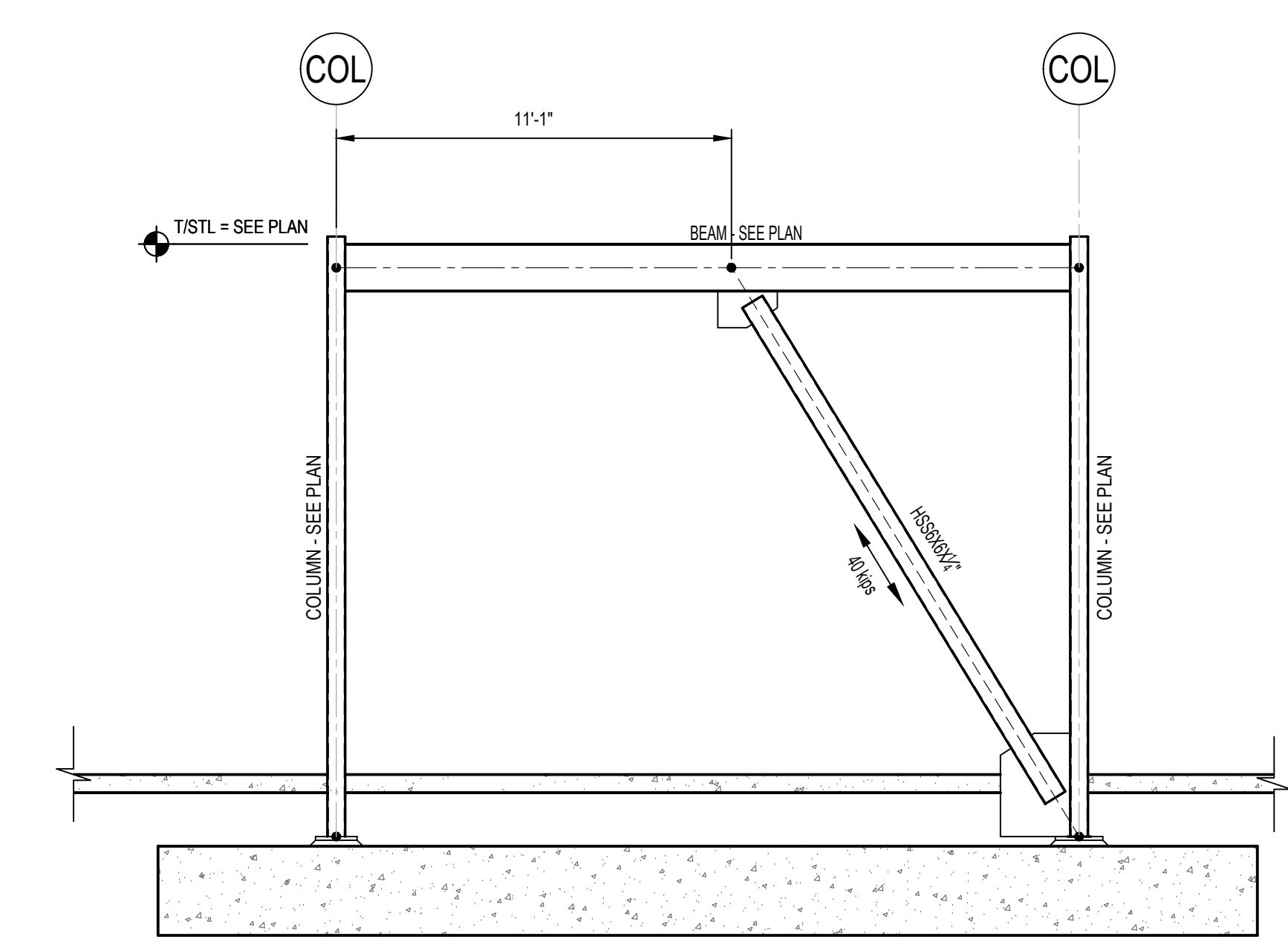
**BRACE FRAME #5 ELEVATION**  
SCALE: 1/4" = 1'-0"



**BRACE FRAME #6 ELEVATION**  
SCALE: 1/4" = 1'-0"



**BRACE FRAME #7 ELEVATION**  
SCALE: 1/4" = 1'-0"



**BRACE FRAME #8 ELEVATION**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTE:**  
STEEL CONNECTION DESIGNER TO  
DESIGN FOR LRFD LOADS SHOWN

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**BRACE FRAME  
ELEVATIONS**