

STRUCTURAL STATEMENT OF SPECIAL INSPECTIONS & TESTING

- 1. SPECIAL INSPECTIONS AND STRUCTURAL TESTING SHALL BE PROVIDED BY AN INDEPENDENT AGENCY EMPLOYED BY THE OWNER FOR THE ITEMS IDENTIFIED IN THIS SECTION AND IN OTHER AREAS OF THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS...
2. THE NAMES AND CREDENTIALS OF THE SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL FOR APPROVAL...
3. DATES OF THE SPECIAL INSPECTION...
4. DUTIES AND RESPONSIBILITIES OF THE CONTRACTOR...
5. PLEASE SEE THE SPECIAL INSPECTION SCHEDULE FOR THE TESTS, DUTIES AND FREQUENCY OF SPECIAL INSPECTIONS AND STRUCTURAL TESTS AS PART OF THIS PROJECT.

WIND-RESISTING COMPONENTS (7705.1.1.3)

- PERIODIC SPECIAL INSPECTION IS REQUIRED FOR FASTENING OF THE FOLLOWING SYSTEMS AND COMPONENTS:
1. ROOF COVERING, ROOF DECK AND ROOF FRAMING CONNECTIONS
2. EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: AFTER BUILDING CONSTRUCTION AND LANDSCAPING HAVE BEEN COMPLETED, GRADES AROUND THE STRUCTURE, PLUMBING LEAK 'HYDROSTATIC' TEST, WHERE PAVING/FLATWORK ABOUT THE FOUNDATION.

REQUIRED VERIFICATION AND INSPECTION OF SOILS (TABLE 7705.4)

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS, VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH, PERFORM CLASSIFICATION AND TESTING OF COMPACTED MATERIALS.

REQUIRED VERIFICATION AND INSPECTION OF WOOD CONSTRUCTION (7705.5)

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: PREFABRICATED WOOD STRUCTURAL ELEMENTS, HIGH-LOAD DIAPHRAGMS, METAL PLATE-CONNECTED WOOD TRUSSES, INSPECTION OF NAILING, BOLTING, ANCHORING AND OTHER FASTENING COMPONENTS.

REQUIRED VERIFICATION AND INSPECTION OF STRUCTURAL STEEL CONSTRUCTION (7705.2.1)

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: INSPECTION TASKS PRIOR TO WELDING, WELDING PROCEDURE SPECIFICATION (WPS) AVAILABLE, MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.

STRUCTURAL STEEL - ANCHOR RODS / EMBED PLATES

THE SPECIAL INSPECTOR SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENT SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS...

STRUCTURAL STEEL - WELDS

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: INSPECTION TASKS PRIOR TO WELDING, WELDING PROCEDURE SPECIFICATION (WPS) AVAILABLE, MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.

INSPECTION TASKS DURING WELDING (ASC 340 TABLE NS 4-2)

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: USE OF QUALIFIED WELDERS, CONTROL AND HANDLING OF WELDING CONSUMABLES, NO WELDING OVER CRACKED TACK WELDS, ENVIRONMENTAL CONDITIONS (WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE).

NON-DESTRUCTIVE TESTING OF WELDED JOINTS

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: FILLET WELDS, PARTIAL JOINT PENETRATION (PJP) WELDS INCLUDING FLARE BEVEL WELDS, COMPLETE JOINT PENETRATION (CJP) WELDS.

STRUCTURAL STEEL HIGH-STRENGTH BOLTS (TURN-OF-NUT)

TURN-OF-NUT PRETENSIONING: THE INSPECTOR SHALL OBSERVE THE PRE-INSTALLATION VERIFICATION TESTING REQUIRED IN SECTION 8.2. SUBSEQUENTLY, IT SHALL BE ENSURED BY ROUTINE OBSERVATION THAT THE BOLTING CREW PROPERLY ROTATES THE TURNED ELEMENT...

Table with 4 columns: BOLT LENGTH, DISPOSITION OF OUTER FACES OF BOLTED PARTS, ONE FACE NORMAL TO BOLT AXIS, OTHER SLOPED NOT MORE THAN 1:20, BOTH FACES SLOPED NOT MORE THAN 1:20 FROM NORMAL TO BOLT AXIS.

STRUCTURAL STEEL HIGH-STRENGTH BOLTS (ENUG-TIGHT) - INSPECTION TASKS PRIOR TO BOLTING

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Row: DOCUMENTATION AND ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.

STRUCTURAL STEEL HIGH-STRENGTH BOLTS (ENUG-TIGHT) - INSPECTION TASKS DURING BOLTING

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Row: DOCUMENTATION AND ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.

Logos and contact information for Renovation Wranglers, ARCS Architecture, DUDLEY, and AMC ENGINEERS.

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OpeningDesign logo and contact information: Architect: OpeningDesign, 17 S Fairchild | FL 7 Madison, WI 53703.

Table with 2 columns: Date, Description. Row: 08/26/2022, PERMIT REVISIONS.

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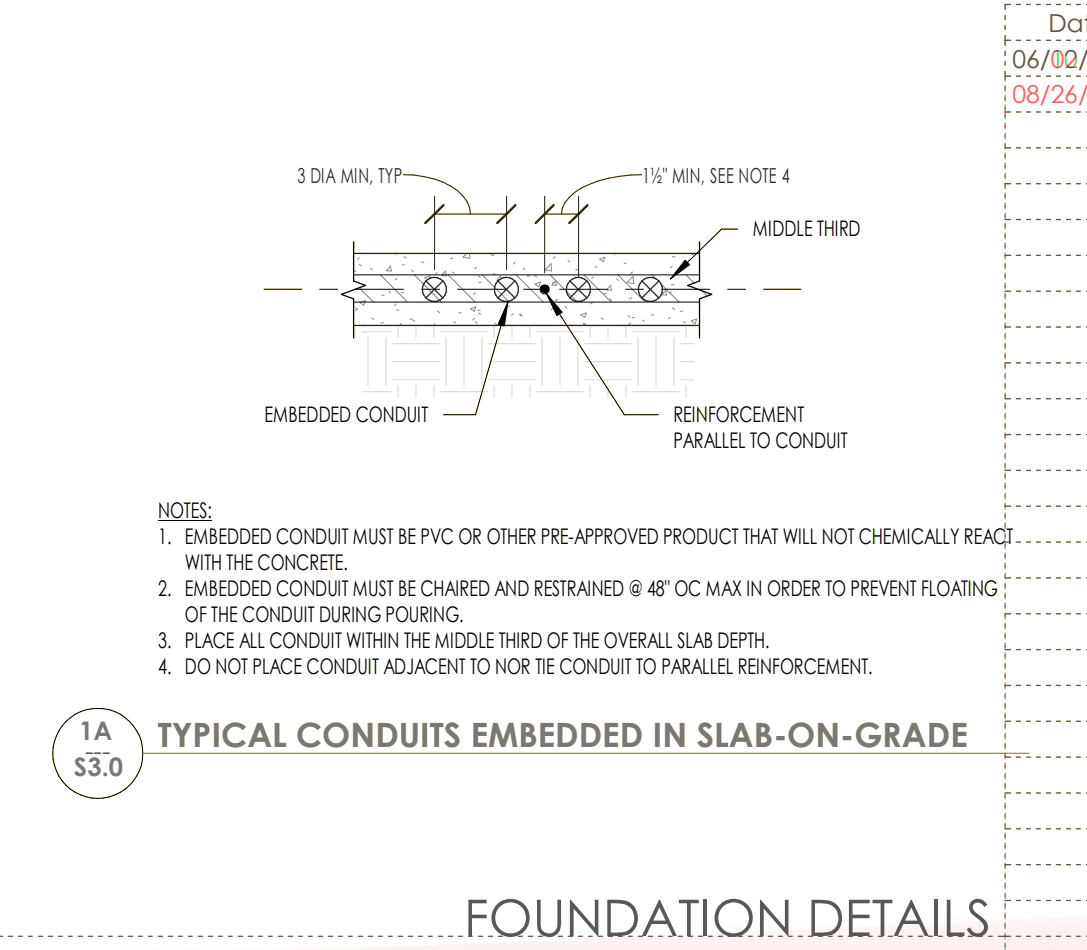
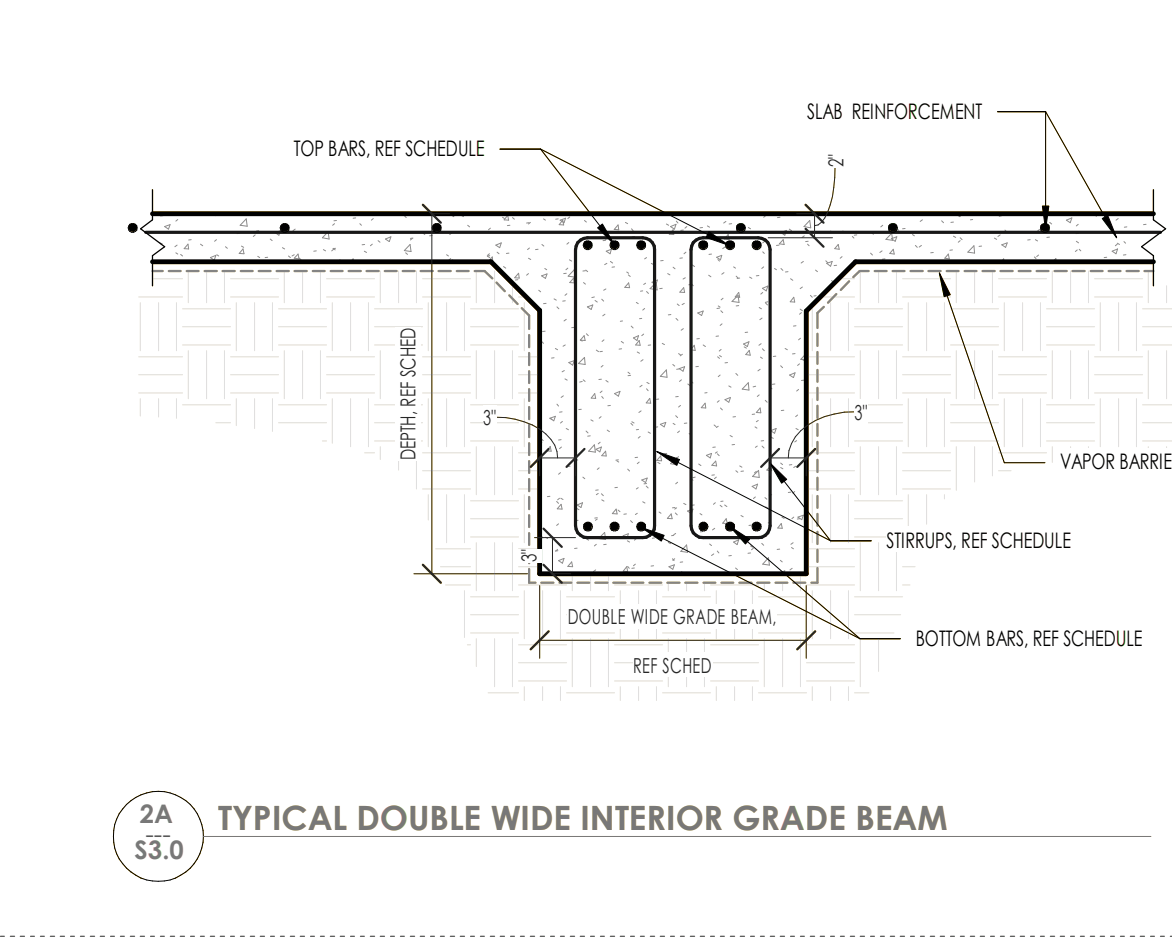
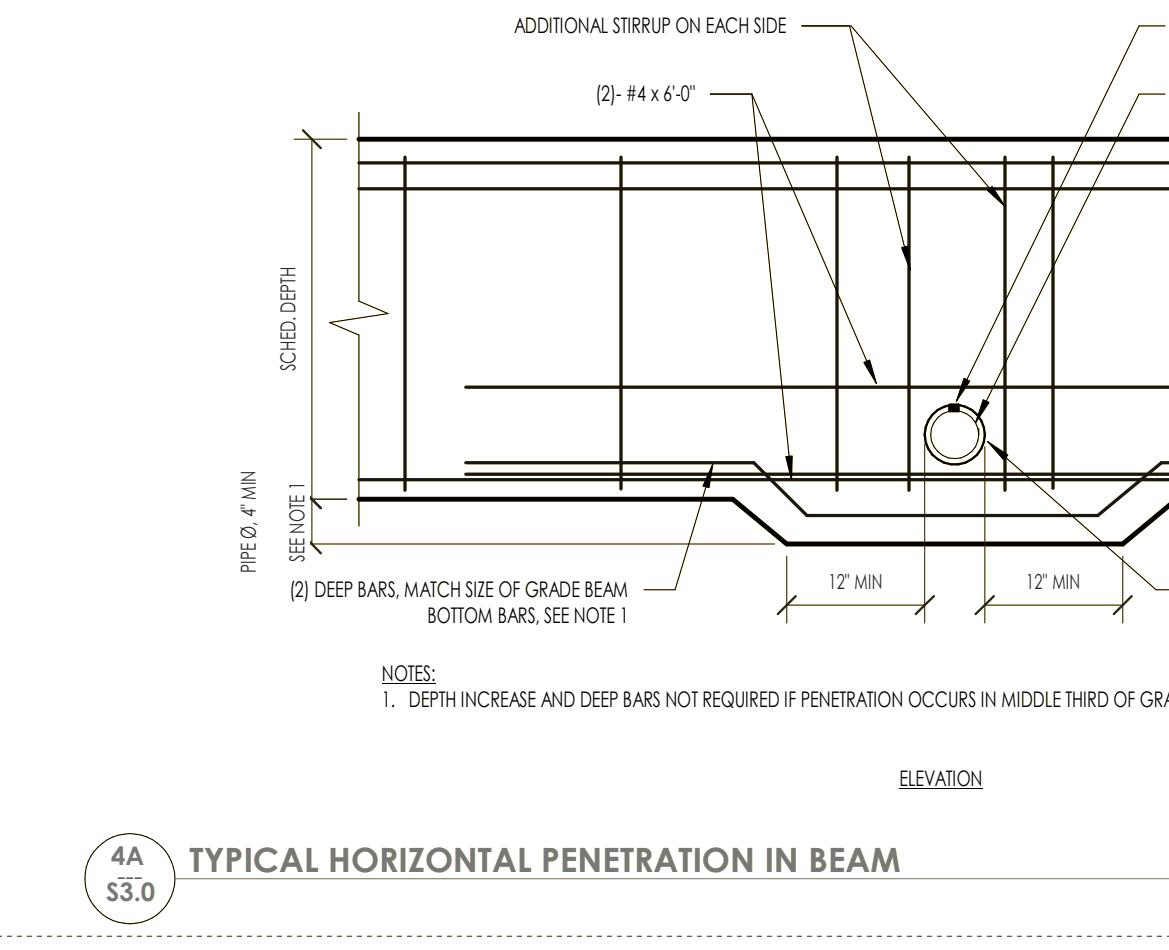
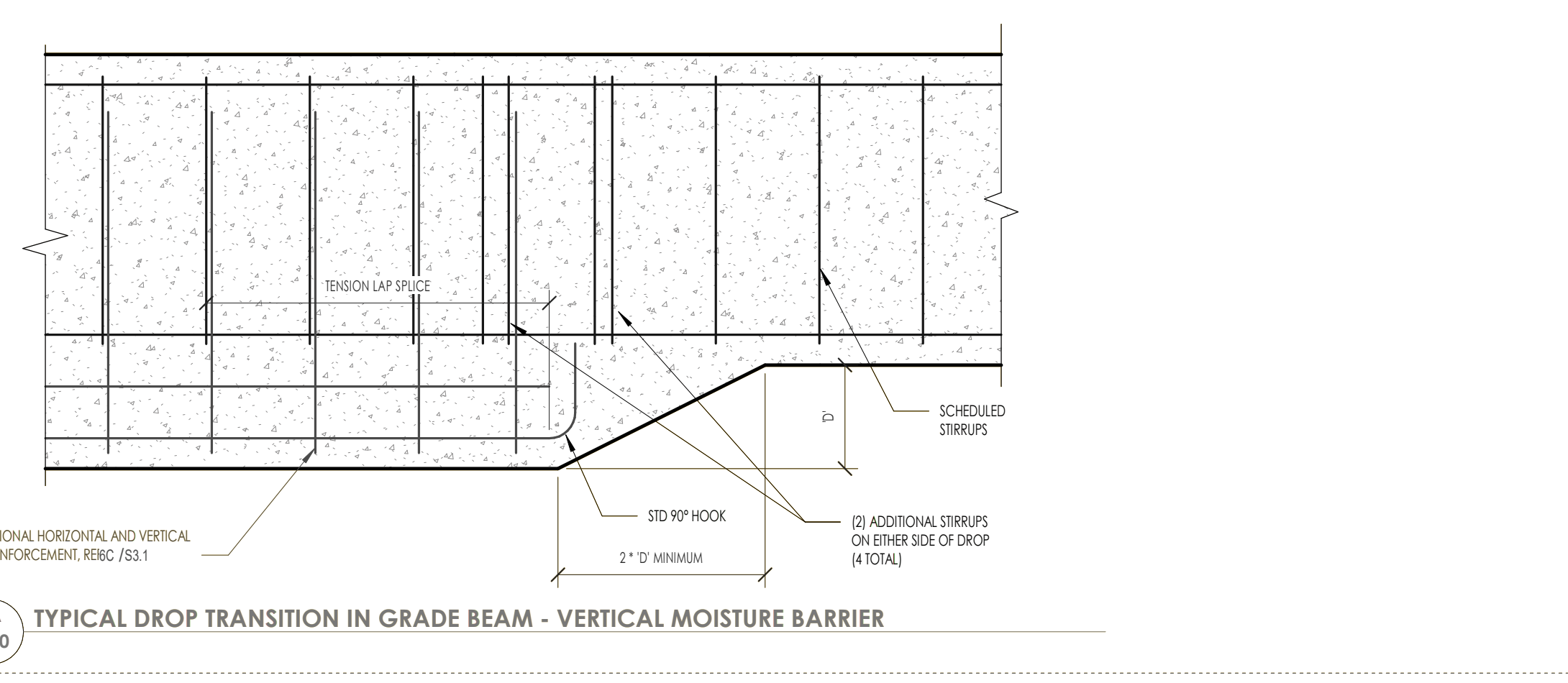
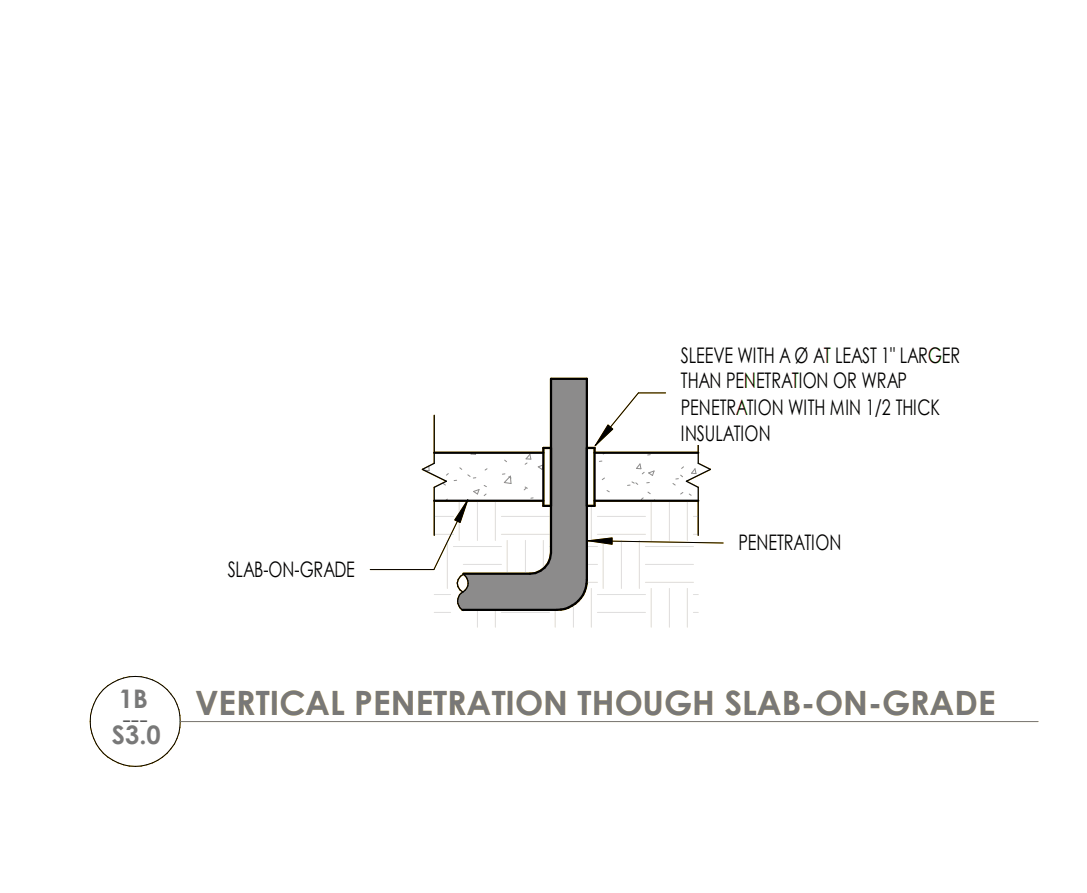
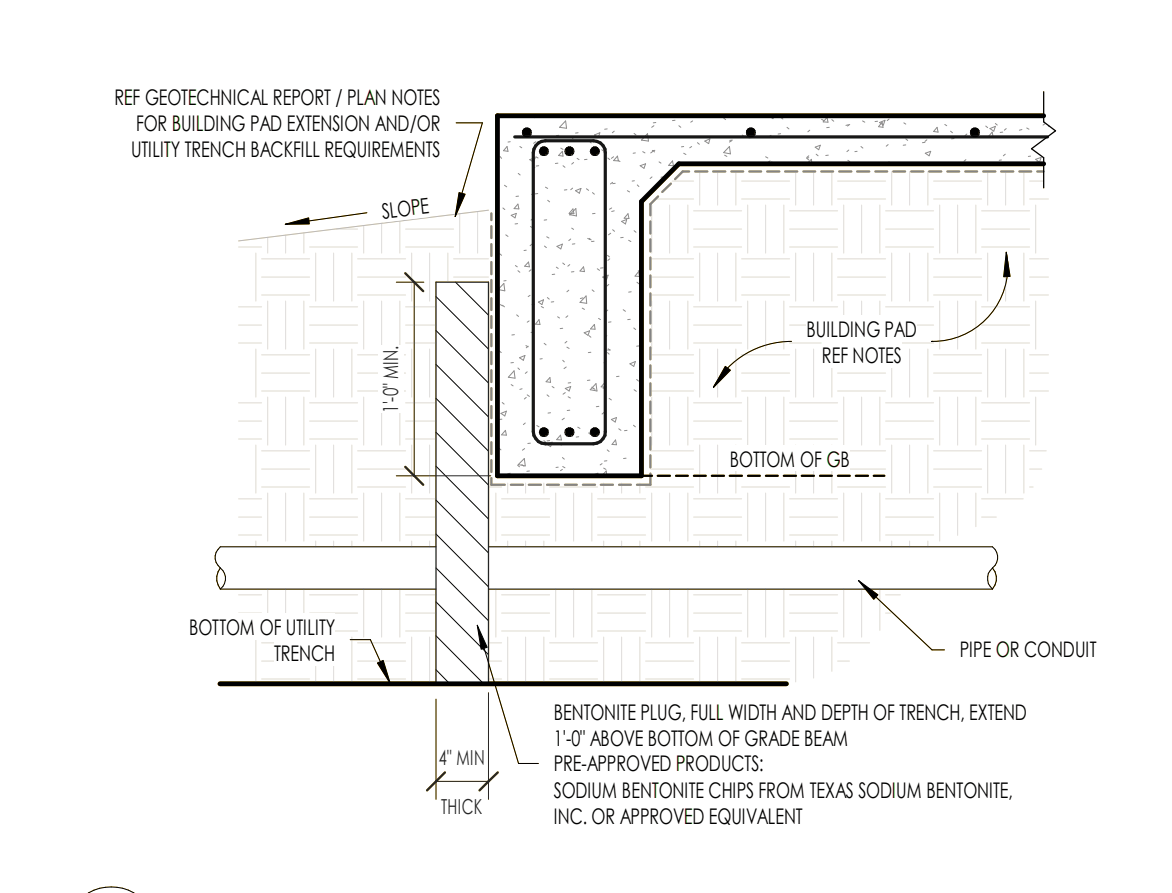
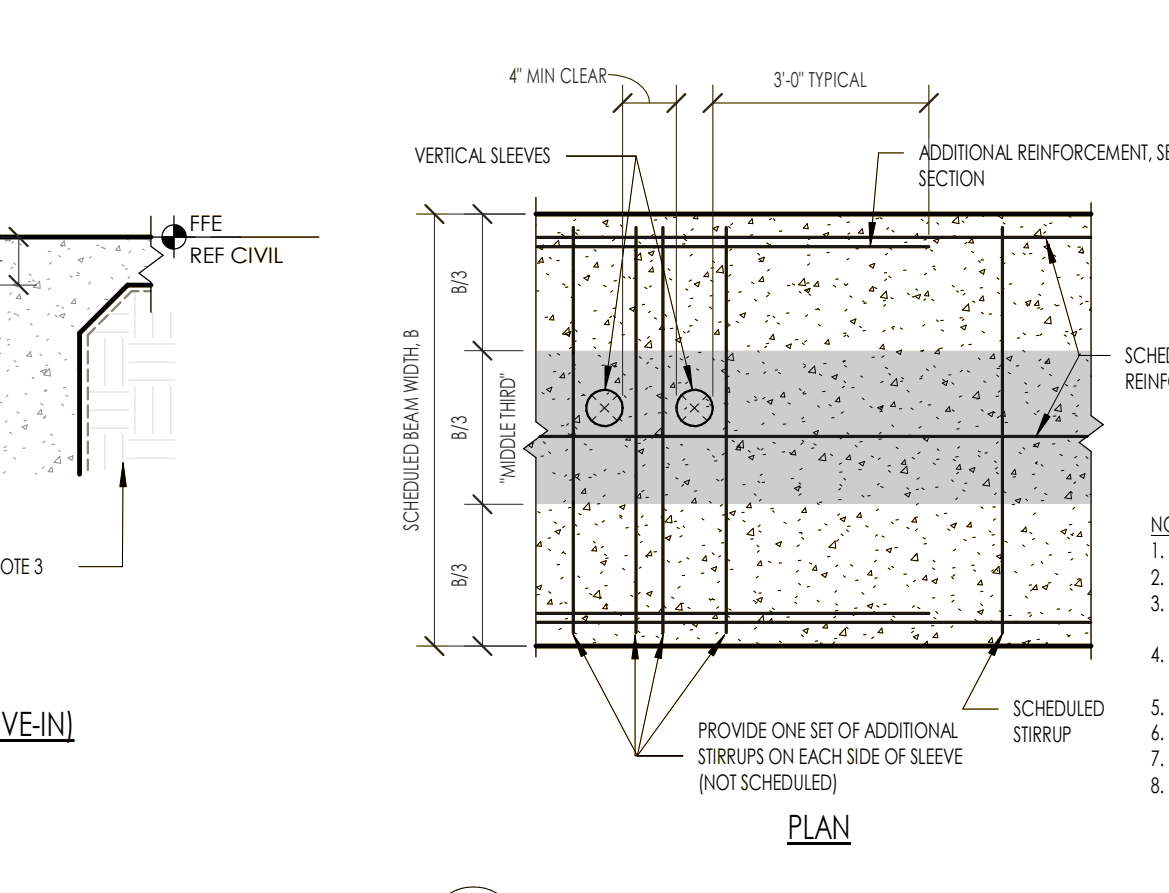
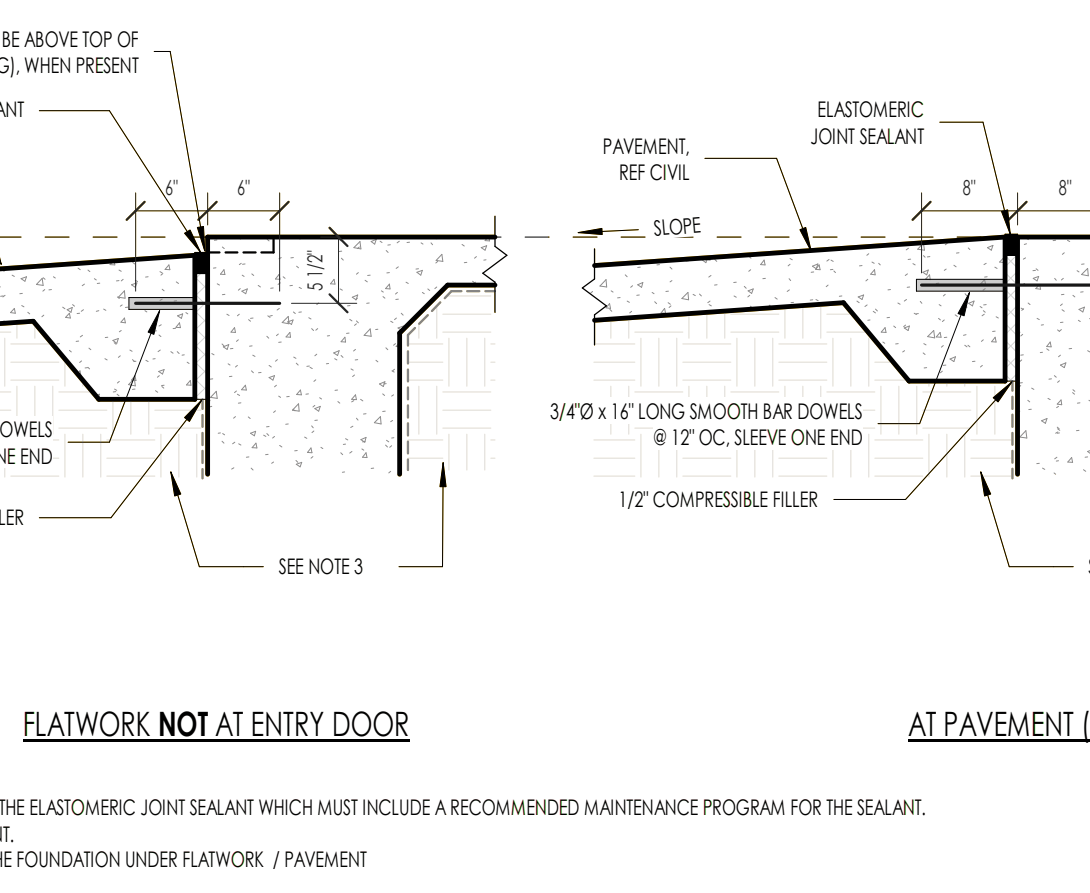
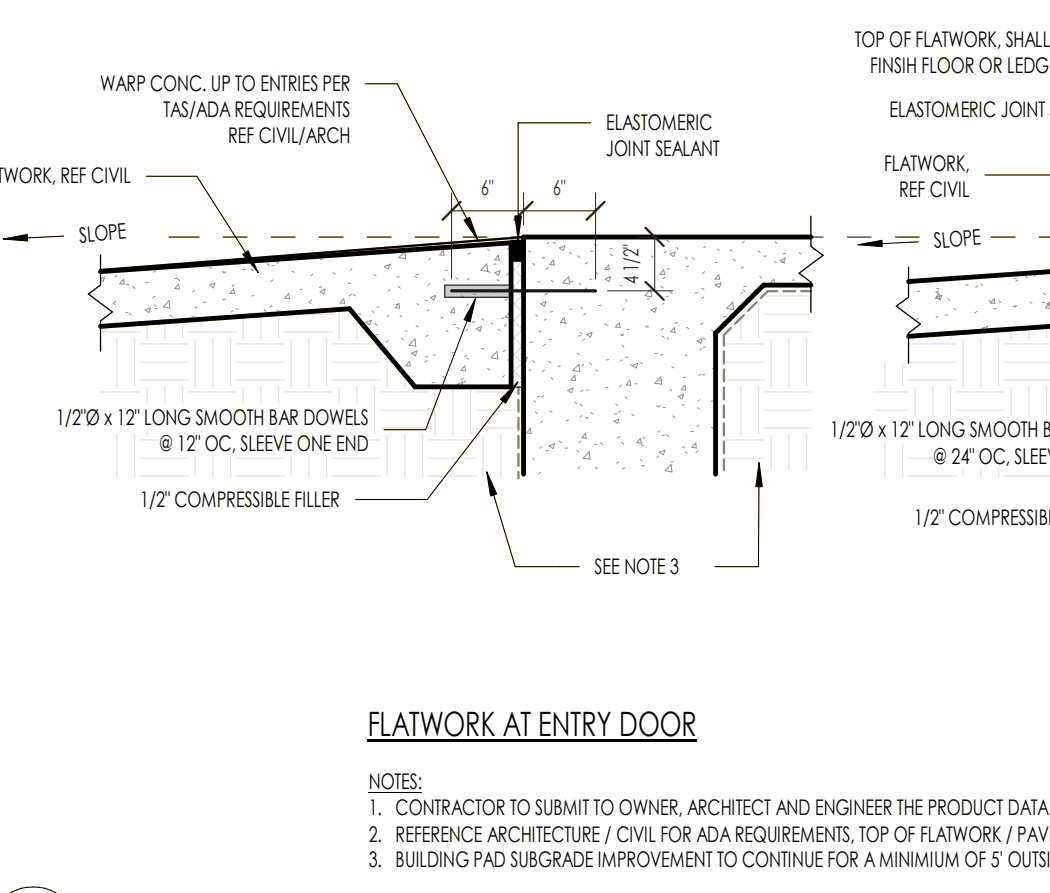
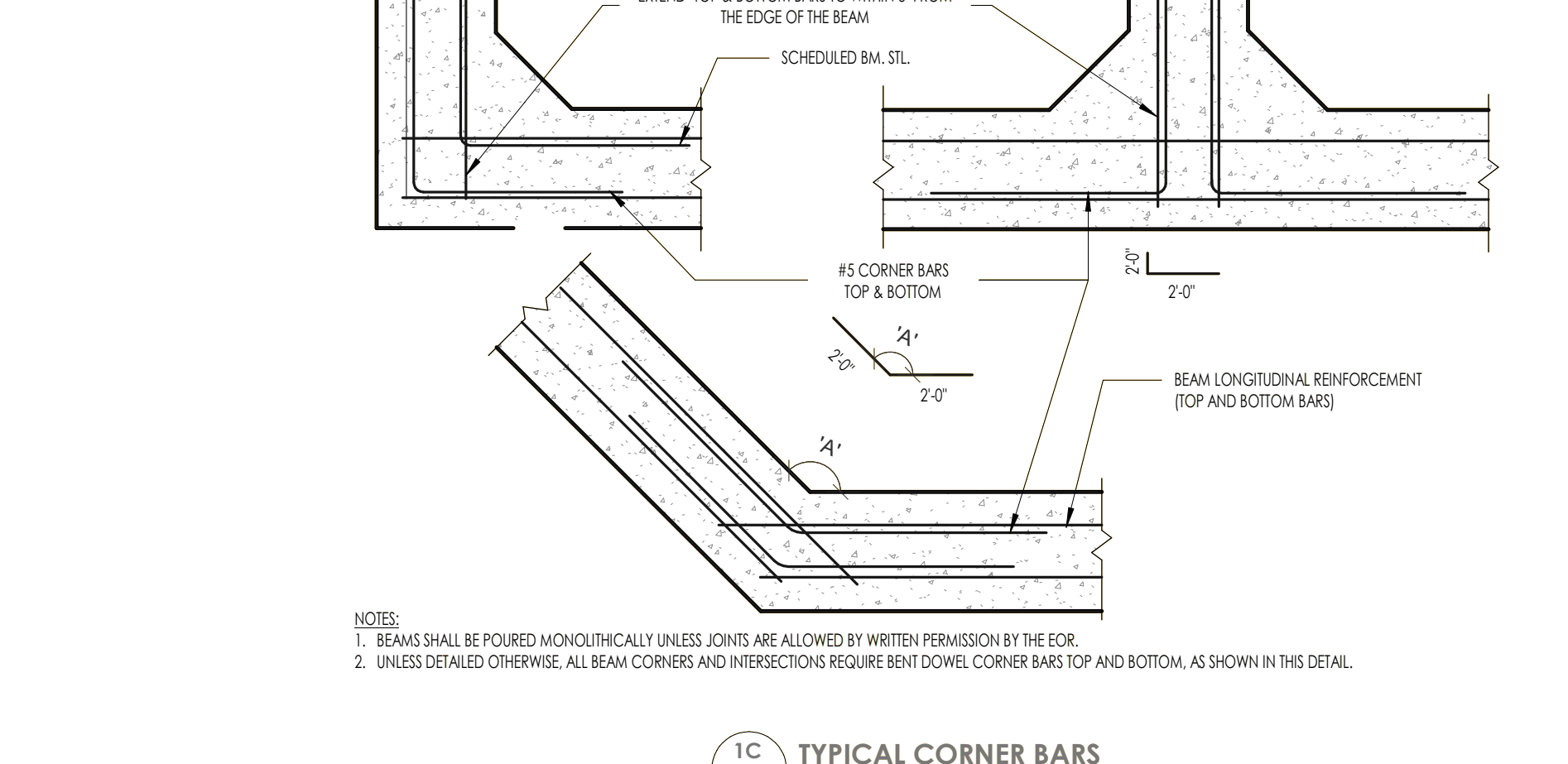
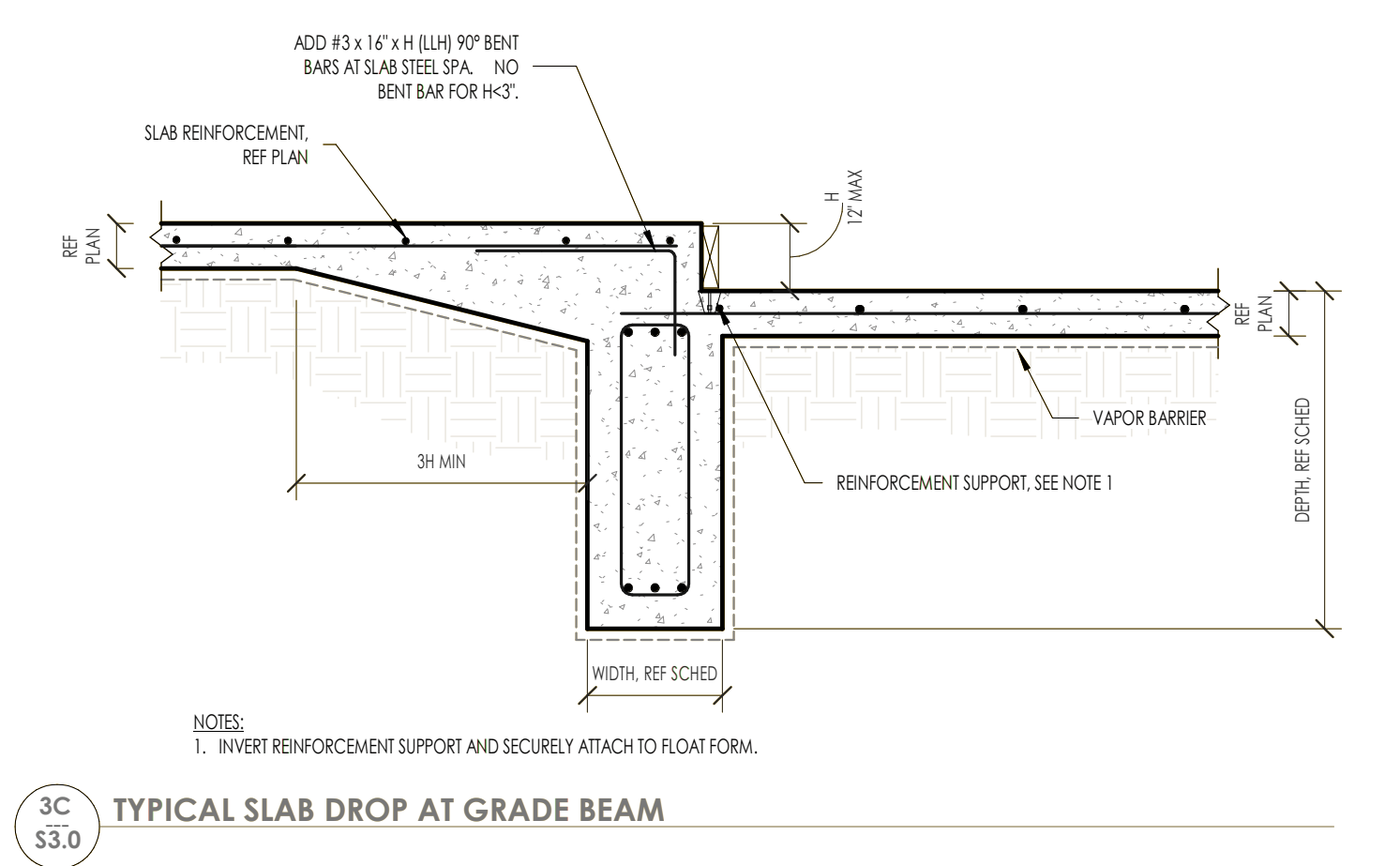
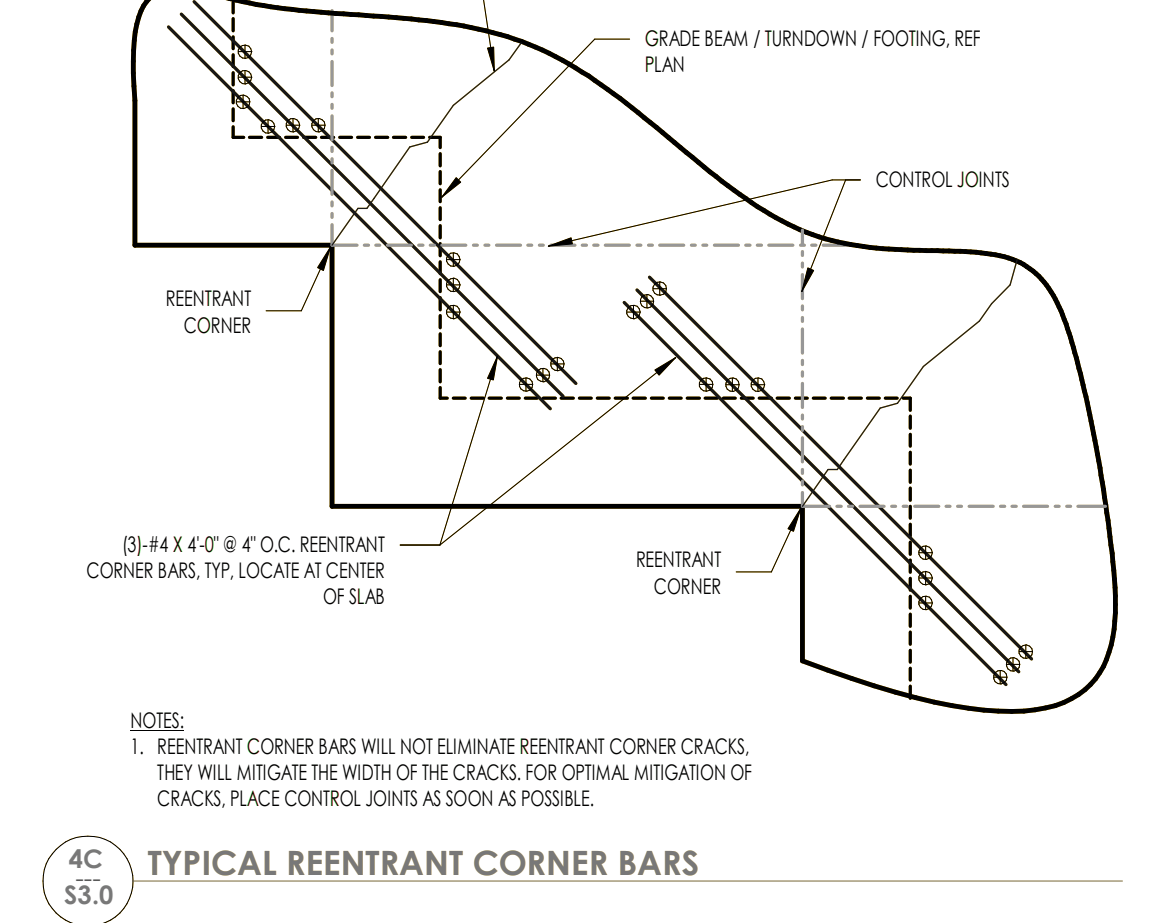
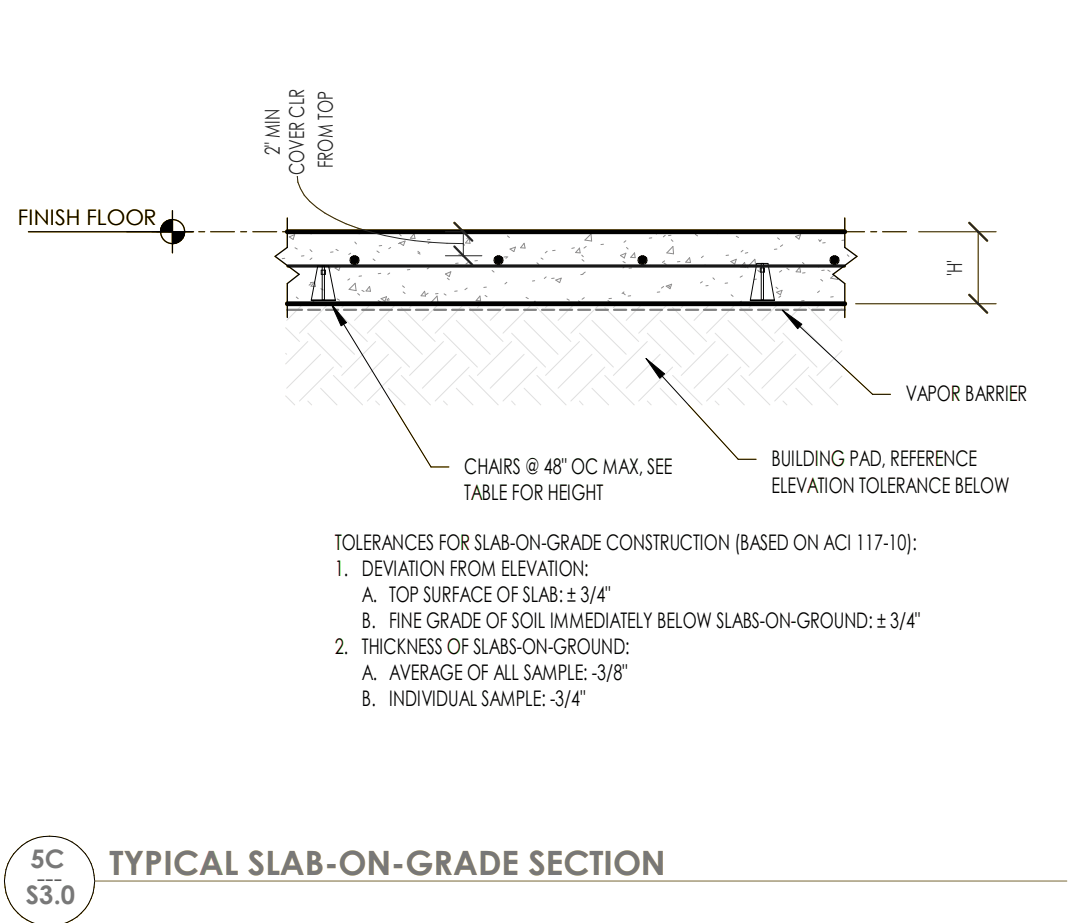
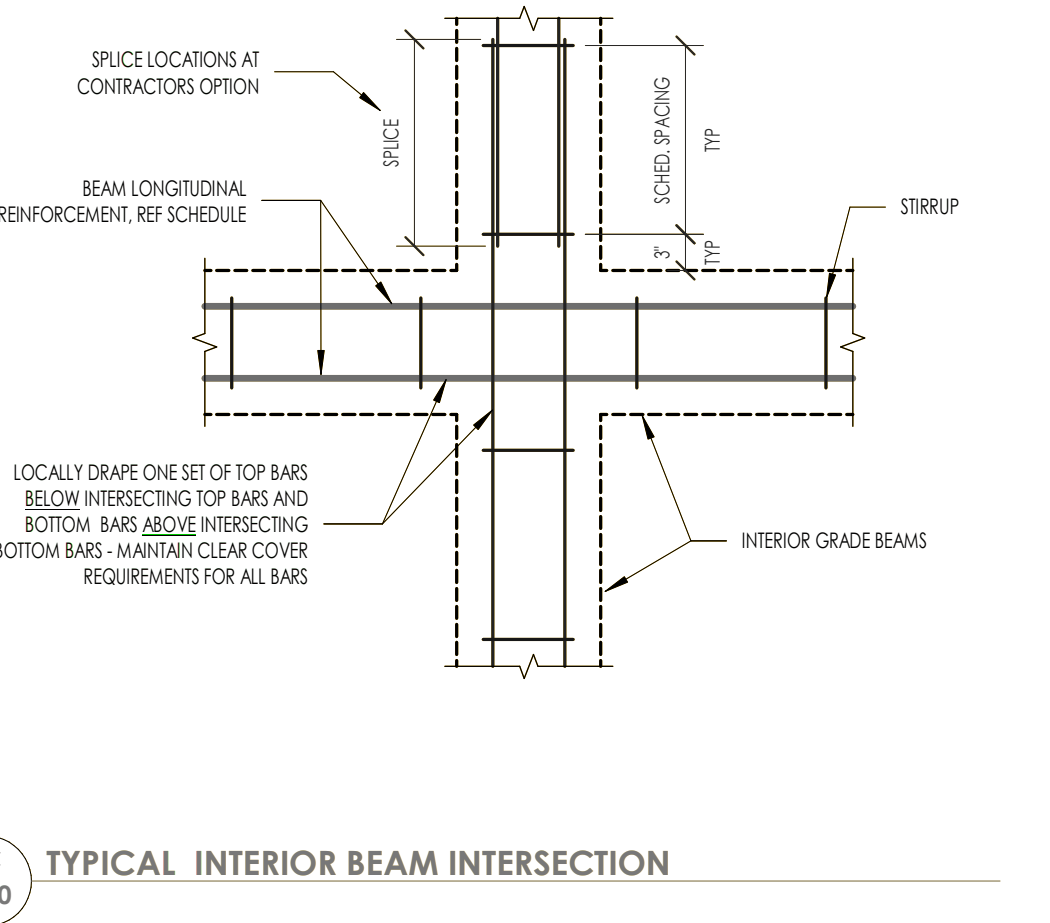
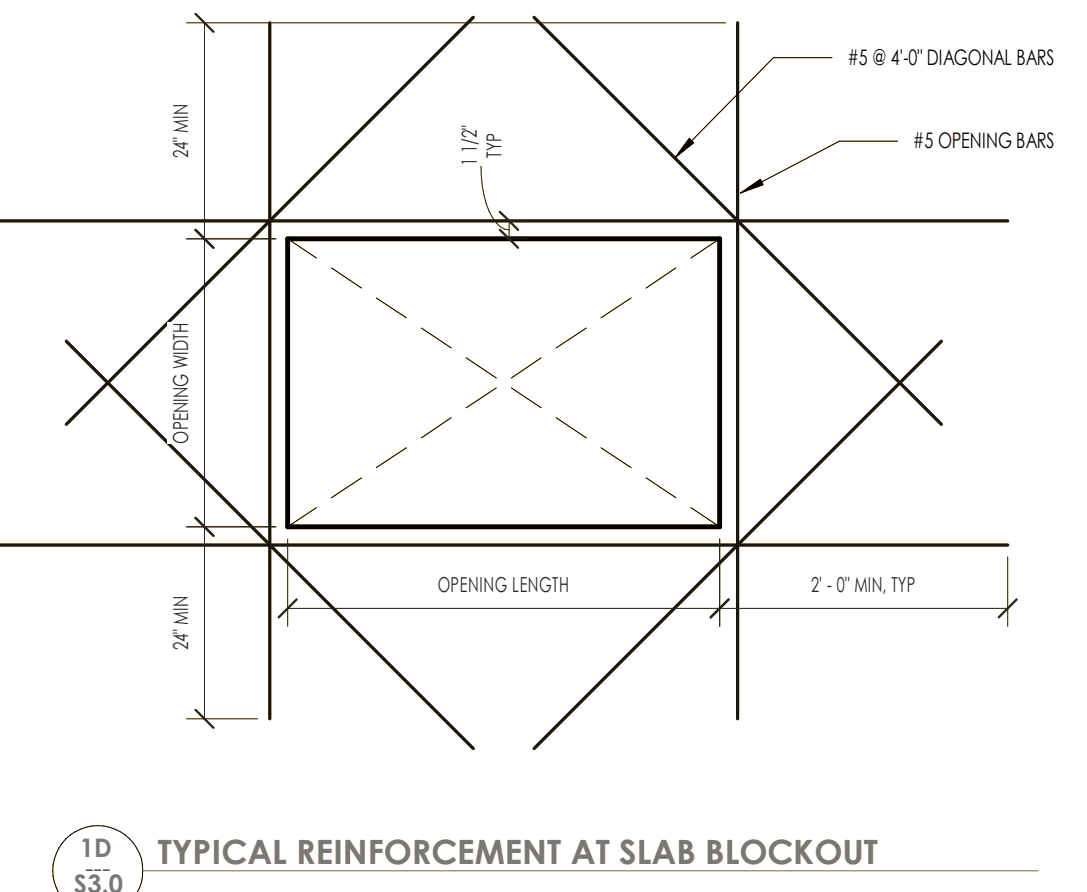
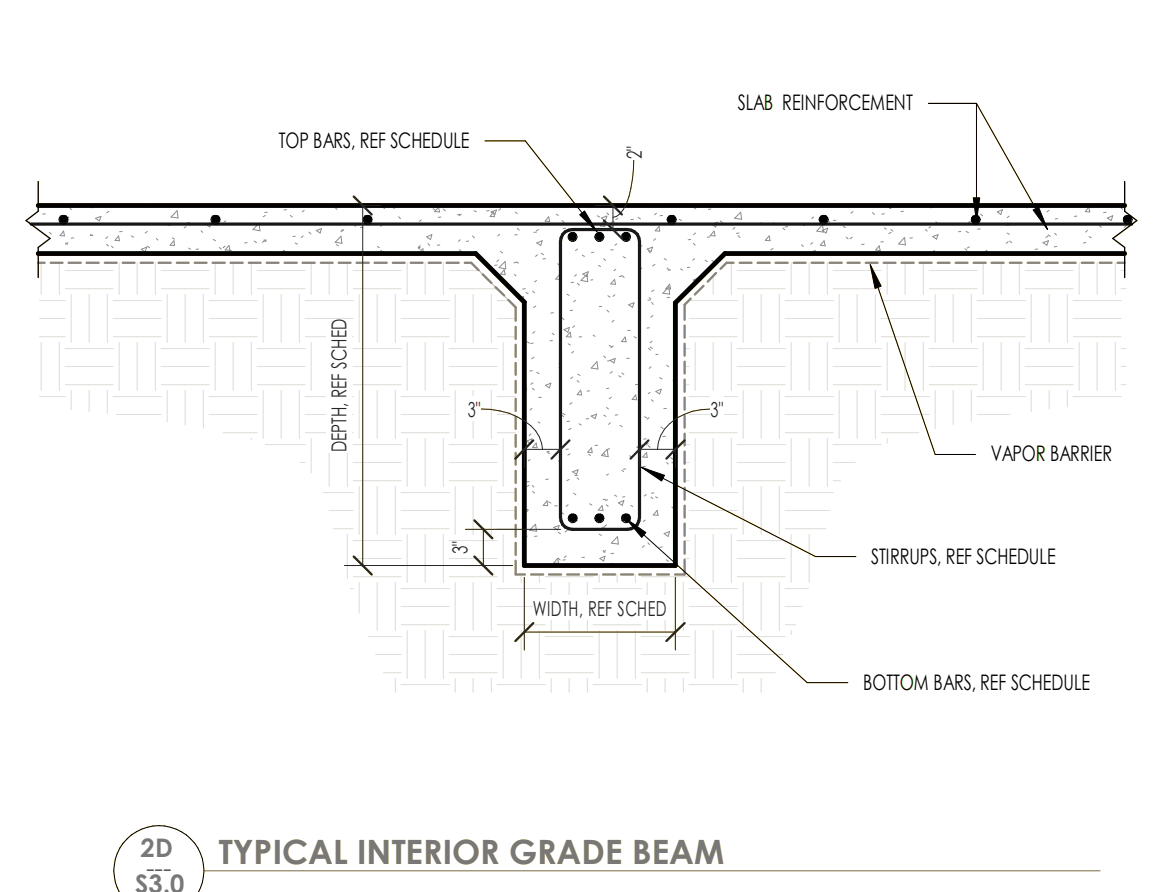
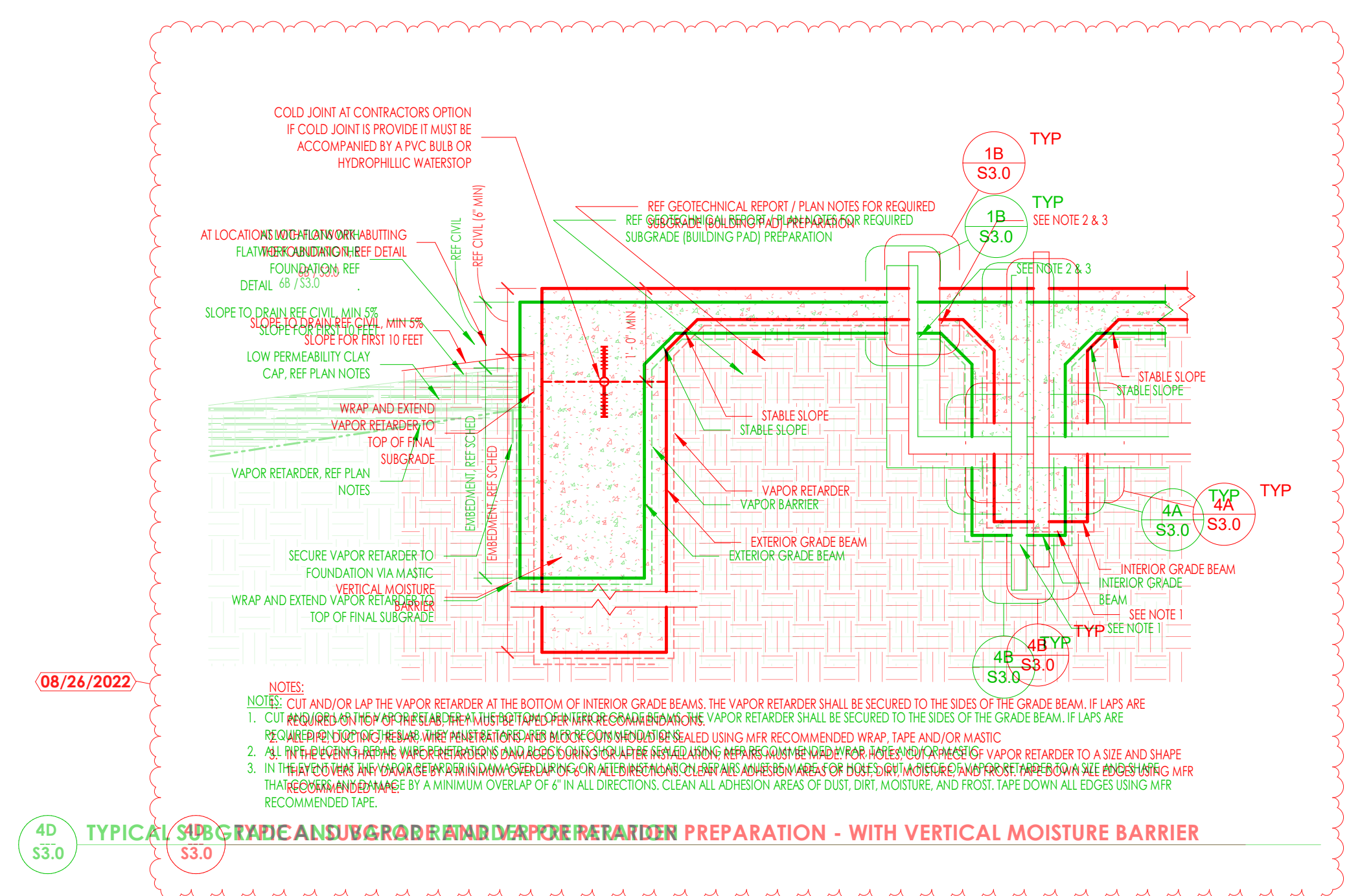
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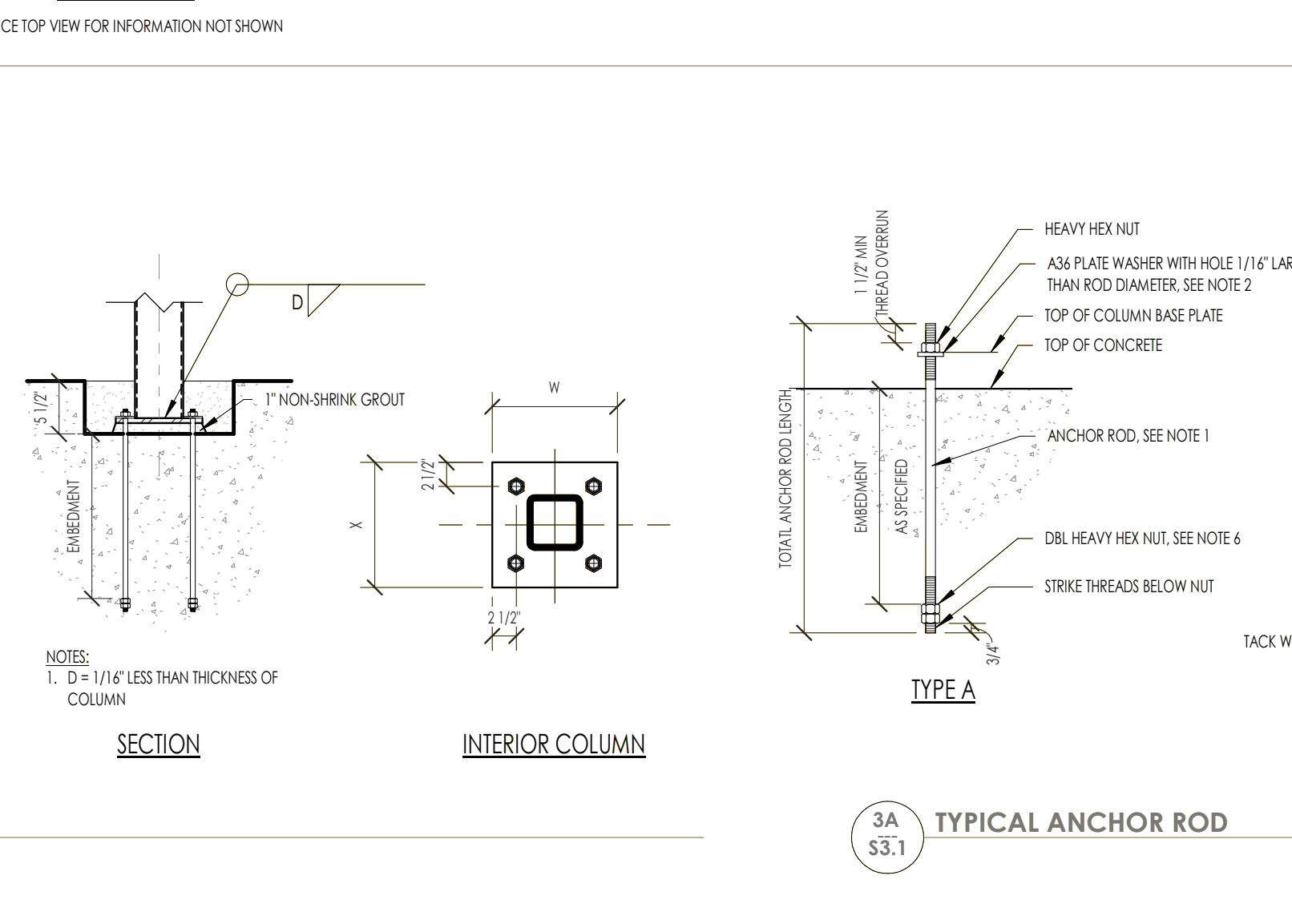
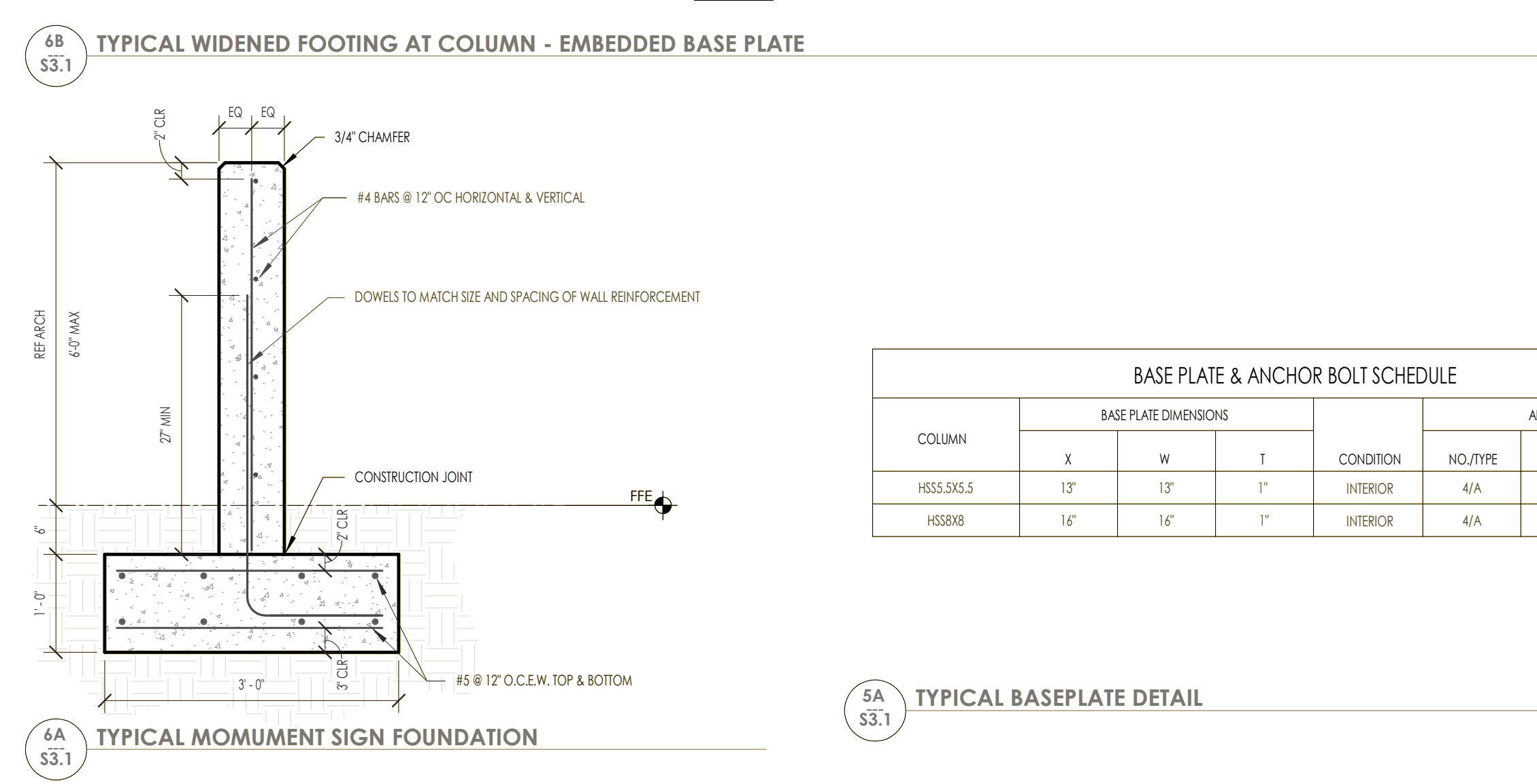
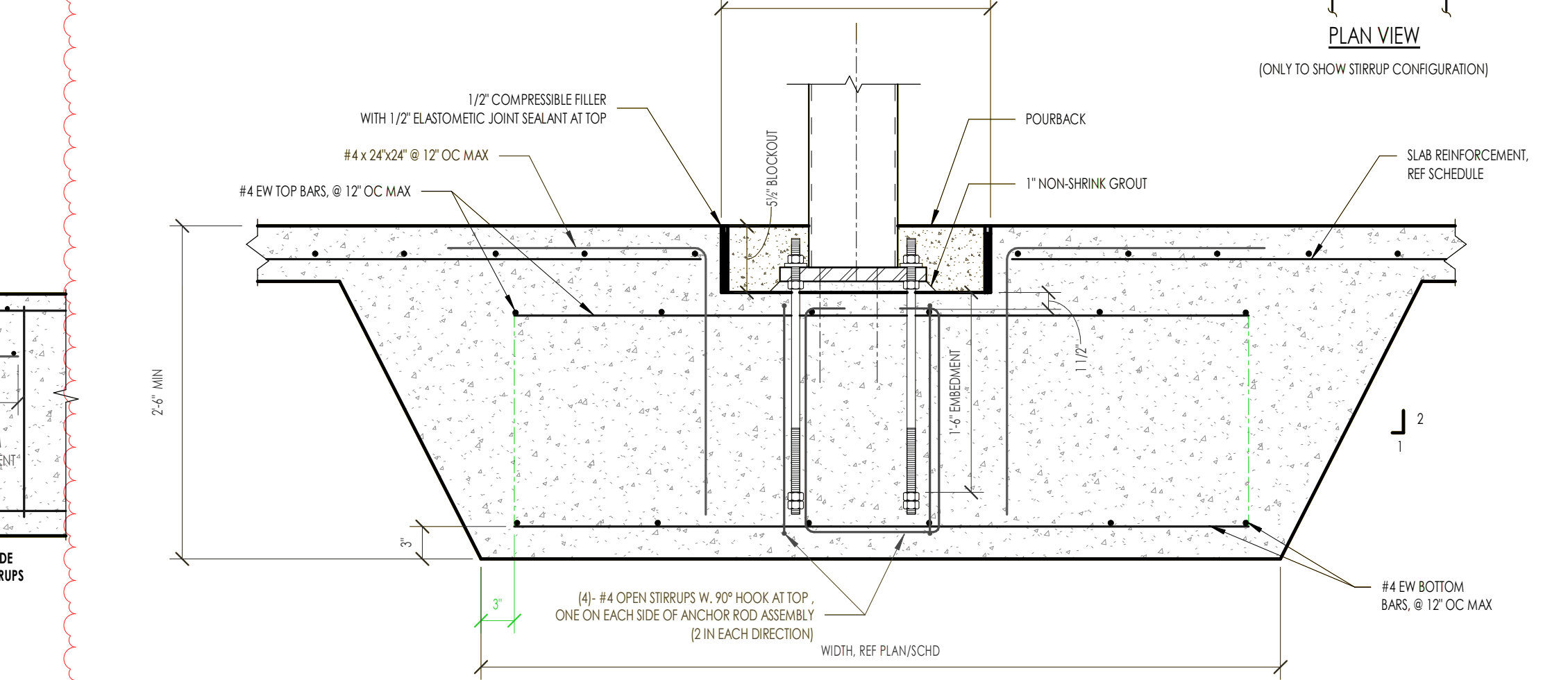
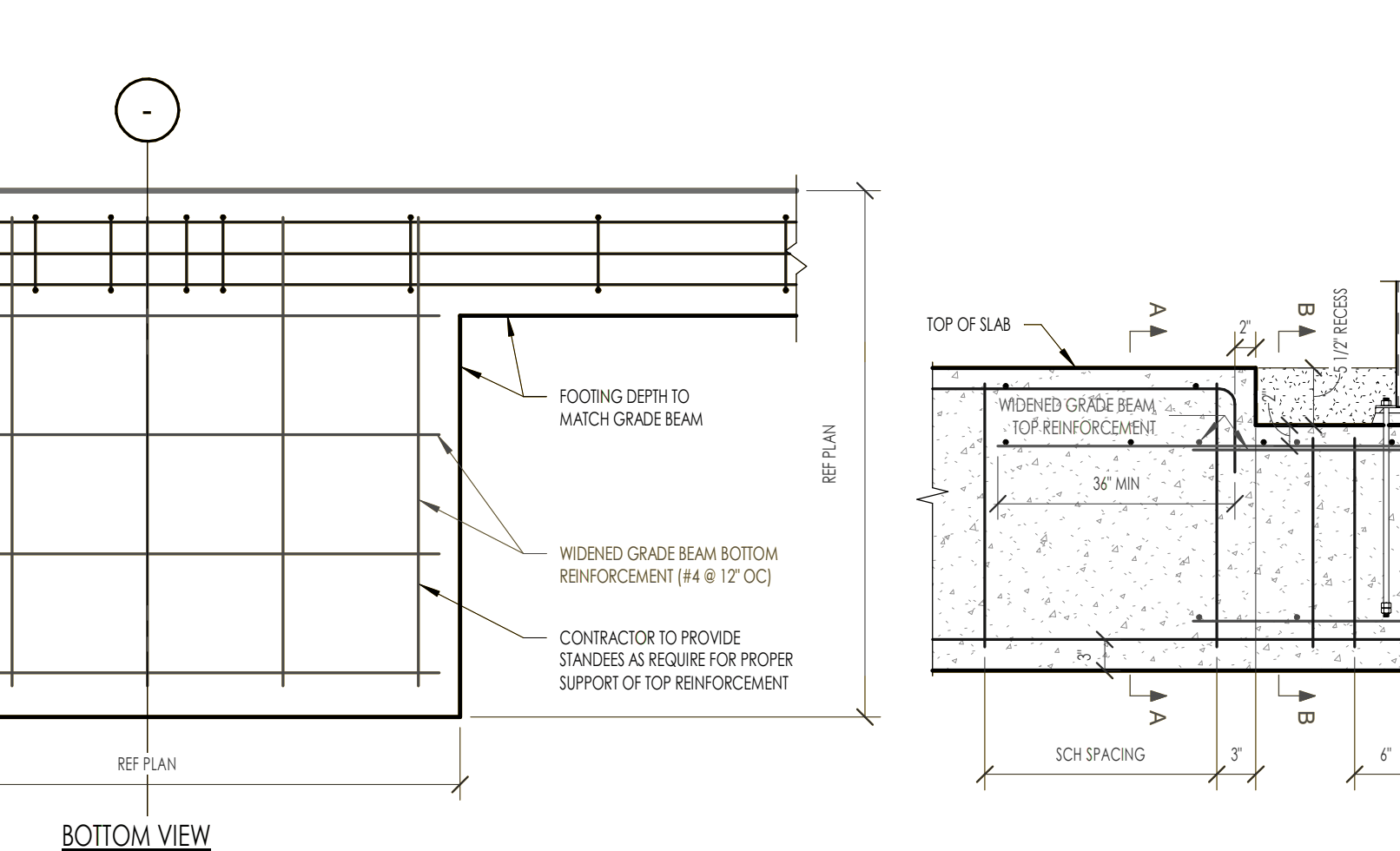
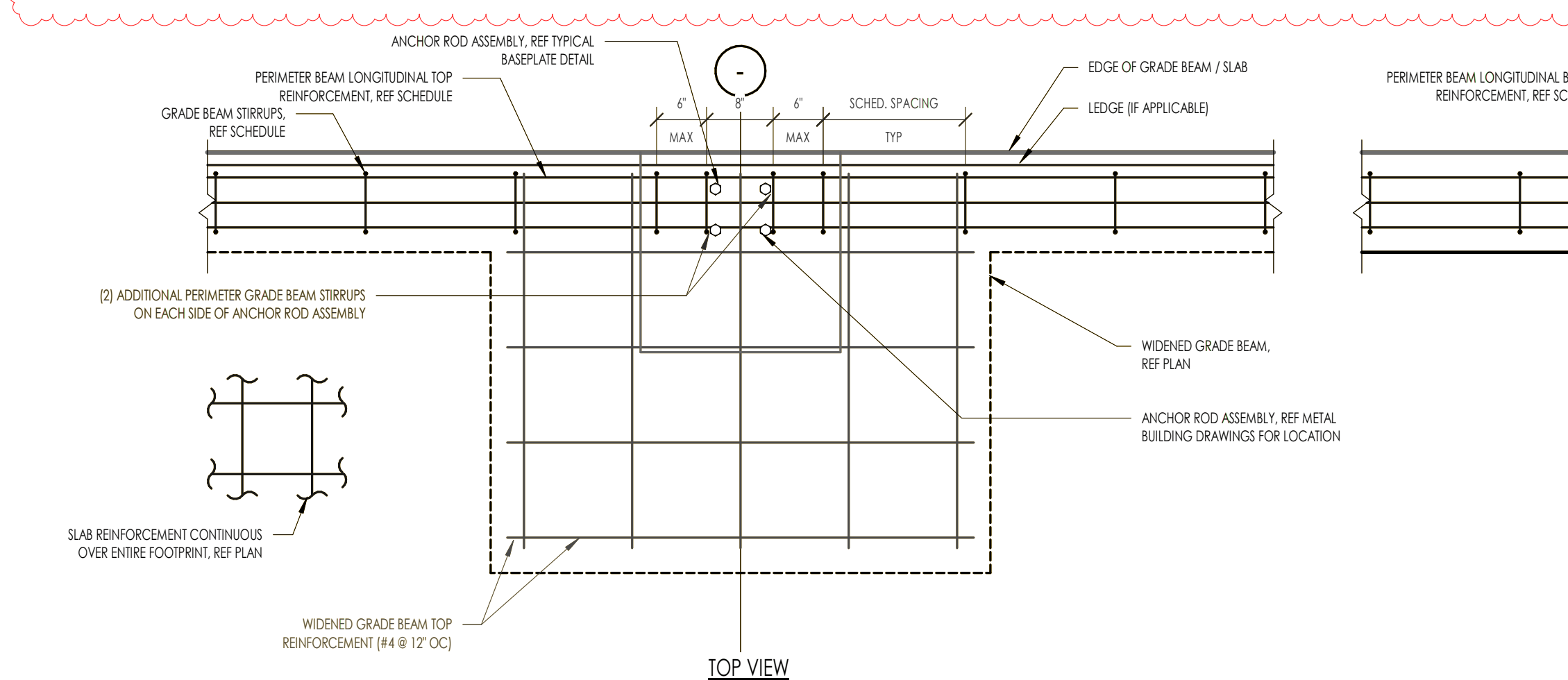
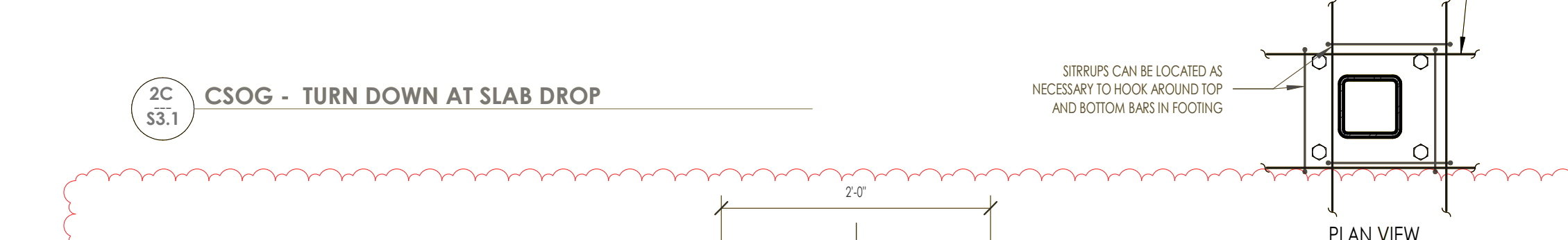
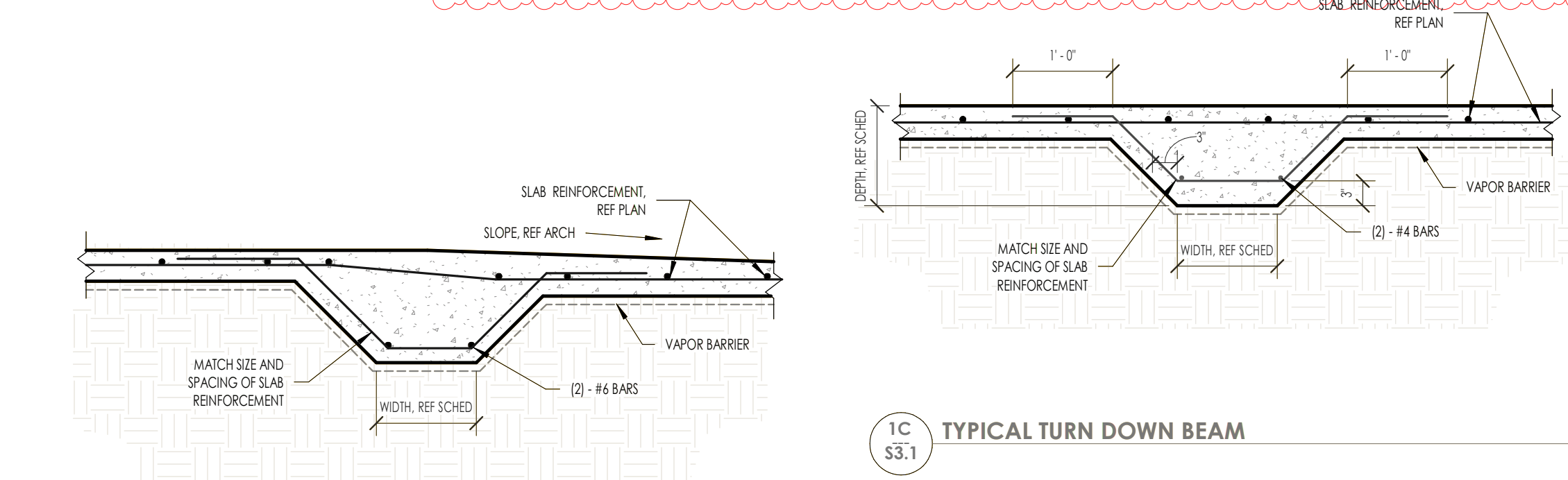
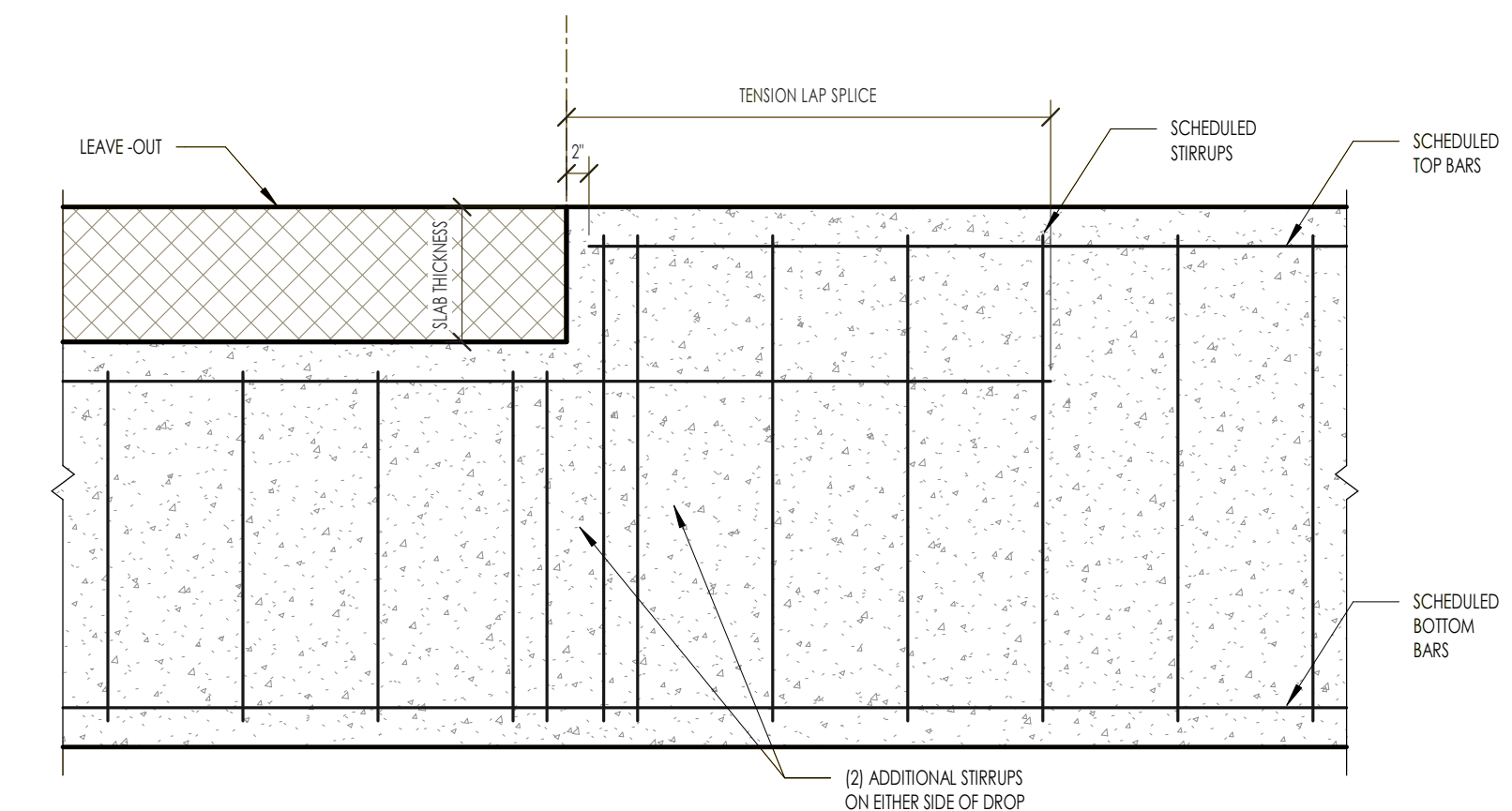
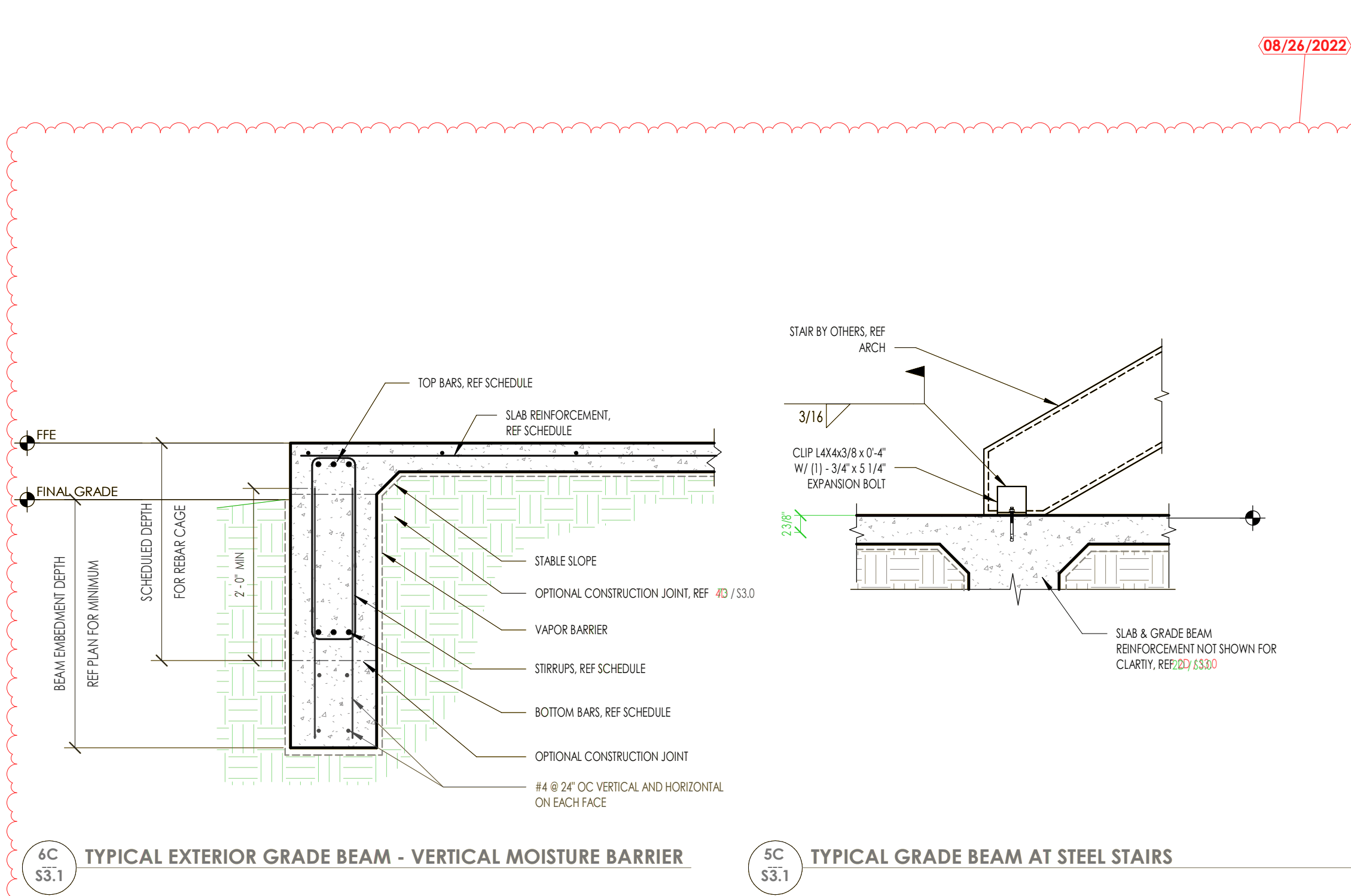
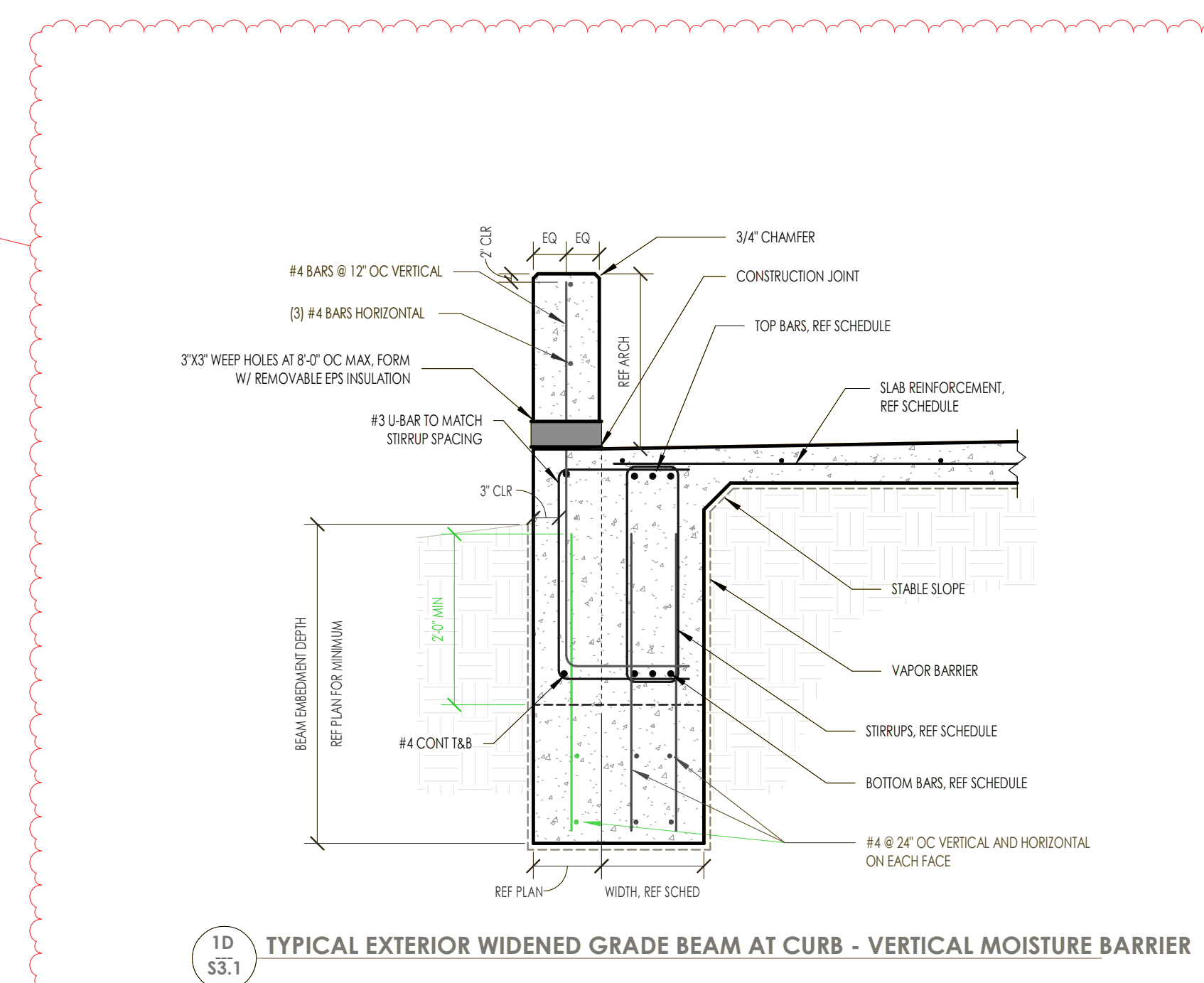
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openingdesign

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Date	Description
04/10/2022	Release of Construction Permit
08/24/2022	PERMIT REVISIONS

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COLUMN	BASE PLATE DIMENSIONS			CONDITION	NO./TYPE	DIA.	EMBEDMENT
	X	W	T				
HSS3x5.3	13"	13"	1"	INTERIOR	4/A	1"	1'-0"
HSS3x8	16"	16"	1"	INTERIOR	4/A	1"	1'-0"

5A S3.1 TYPICAL BASEPLATE DETAIL

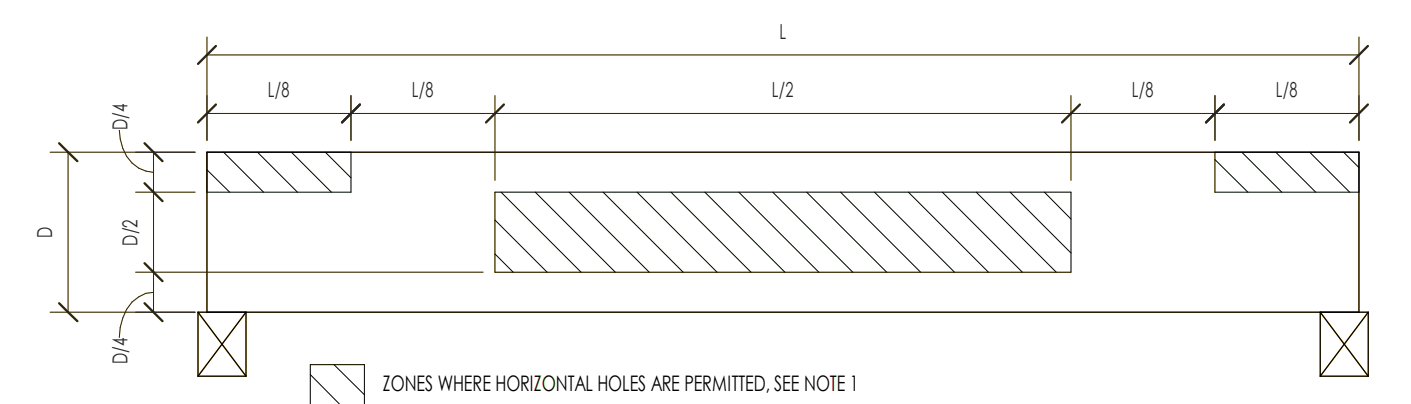
ANCHOR ROD DIAMETER	HOLE DIAMETER	SQUARE PLATE WASHER SIZE	PLATE WASHER THICKNESS	TYPE B ANCHOR PLATE
5/8"	1 3/16"	1 1/2"	1/4"	PL17X10-4
3/4"	1 5/16"	2"	1/4"	PL17X10-4
7/8"	1 9/16"	2 1/2"	5/16"	PL17X10-4
1"	1 13/16"	3"	3/8"	PL19X10-5
1 1/2"	2 5/16"	3 1/2"	1/2"	PL19X10-5

- NOTES:
- ALL TYPE A ANCHOR RODS SHALL BE F1554 GRADE 36.
 - ALL TYPE B ANCHOR RODS SHALL BE F1554 GRADE 55.1.
 - PLATE WASHERS MUST BE WELDED TO THE BASE PLATE WITH MINIMUM 3/16" FLLET WELD ALL-AROUND.
 - EMBEDMENT DEPTH ARE PRELIMINARY. FINAL EMBEDMENT TO BE PROVIDED AFTER REVIEW OF METAL BUILDING REACTIONS.
 - ALL ANCHOR ROD HOLES SHALL ADHERE TO ASS DESIGN GUIDE #1, TABLE 2.3.
 - THE DOUBLE NUT MAY BE OMITTED IF THE NUT IS TACK WELDED TO THE ROD.

Date	Description
04/10/2022	Release of Schedule
08/26/2022	PERMIT REVISIONS

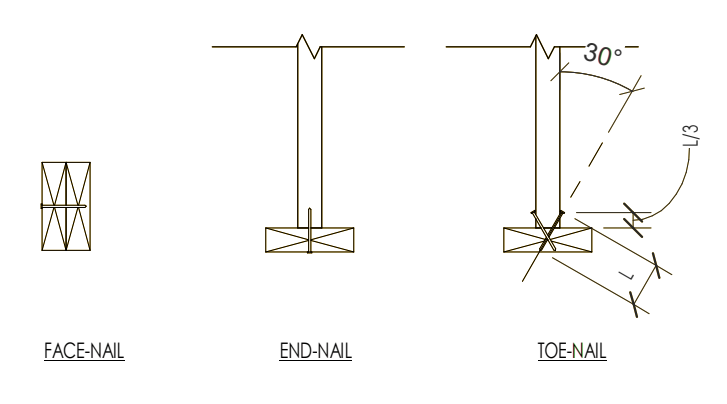
TYPICAL FASTENING SCHEDULE			
CONNECTION ID	CONNECTION TYPE	FASTENING	FASTENING ORIENTATION
1	JOIST TO BIL OR GIRDER	(B) - 0.131"Ø X 3"	TOENAIL
2	SOLE PLATE TO JOIST OR BLOCKING	0.148"Ø X 3" NAILS @ 12" OC NAILS	FACE NAIL
3	TOP PLATE TO STUD	(B) - 0.131"Ø X 3" NAILS	END NAIL
4	STUD TO SOLE PLATE - OPTION 1	(2) - 1/4" COMMON (2) - 0.131"Ø X 3" NAILS	END NAIL
5	STUD TO SOLE PLATE - OPTION 2	(4) 0.131"Ø X 3" NAILS	TOENAIL
6	DOUBLE MULTIPLE STUDS	REFERENCE DETAIL (A)/(S4.0)	FACE NAIL
7	DOUBLE TOP PLATES	0.131"Ø X 3" NAILS @ 12" OC	FACE NAIL
8	DOUBLE TOP PLATE SPICE	REFERENCE DETAIL (A)/(S4.0)	FACE NAIL
9	BLOCKING BETWEEN JOISTS/RAFTERS TO TOP PLATE	(B) - 0.131"Ø X 3" NAILS	TOENAIL
10	RM JOIST TO TOP PLATE	0.131"Ø X 3" NAILS @ 6" OC	TOENAIL
11	CEILING JOIST TO TOP PLATE	(B) - 0.131"Ø X 3" NAILS	TOENAIL
12	CEILING JOIST LAP OVER PARTITION	(H) - 0.131"Ø X 3" NAILS	FACE NAIL
13	CEILING JOIST TO PARALLEL RAFTERS	(H) - 0.131"Ø X 3" NAILS	FACE NAIL
14	RAFTER TO TOP PLATE	(B) - 0.131"Ø X 3" NAILS	TOENAIL
15	BUILT-UP CORNER STUDS	0.131"Ø X 3" NAILS @ 18" OC	FACE NAIL
16	BUILT-UP BEAMS	REFERENCE DETAIL (A)/(S4.0)	FACE NAIL
17	COLLAR TIE TO RAFTER	(H) - 0.131"Ø X 3" NAILS	FACE NAIL
18	JACK RAFTER TO HP	(H) - 0.131"Ø X 3" NAILS	TOENAIL
19	RAFTER TO RIDGE BOARD/BEAM	(B) - 0.131"Ø X 3" NAILS	TOENAIL
20	BLOCKING AT STUDS	(B) - 0.131"Ø X 3" NAILS EACH SIDE	TOENAIL

NOTES:
1. THESE CONNECTIONS ARE TO BE APPLIED UNLESS NOTED OTHERWISE IN PLAN SECTION, ELEVATION OR DETAIL VIEWS.

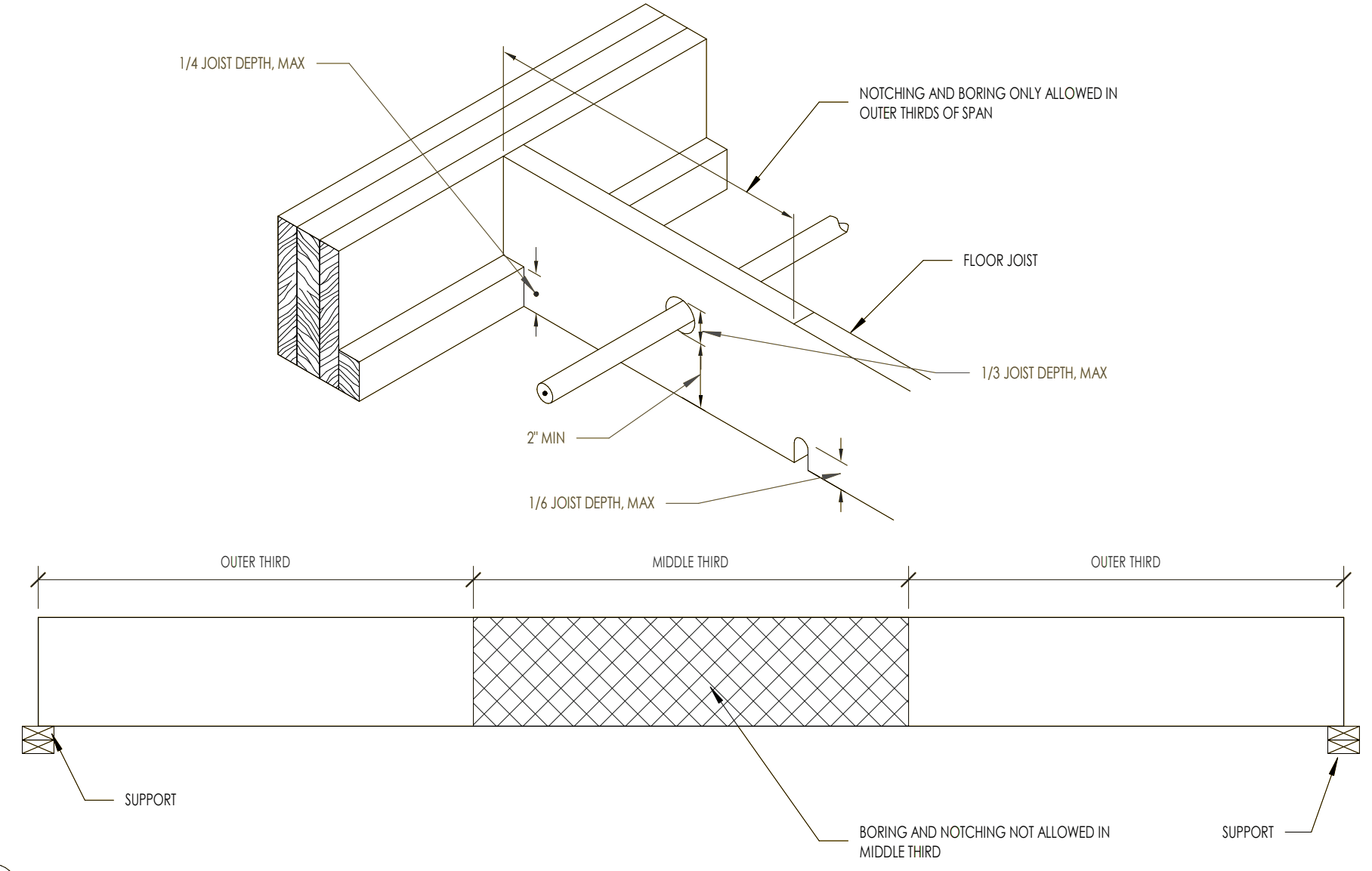


NOTES:
1. HOLE SIZE: THE HOLE DIAMETER SHALL NOT EXCEED 1/10 OF D/10, WHICHEVER IS SMALLER.
2. SPACING: FOR LARGER HOLE DIAMETERS OR FOR HOLES OUTSIDE OF THE PERMITTED ZONES, WRITTEN PERMISSION MUST BE OBTAINED FROM THE ECR.
3. LIMITATIONS: THE ABOVE CRITERIA ONLY APPLY TO SIMPLY SUPPORTED, UNIFORMLY LOADED GLUE LAMINATED BEAMS. FOR BEAMS THAT ARE EITHER CONTINUOUS ACROSS MULTIPLE SPANS OR THAT ARE SUPPORTING NON-UNIFORM LOADS, WRITTEN PERMISSION MUST BE OBTAINED FROM THE ECR.

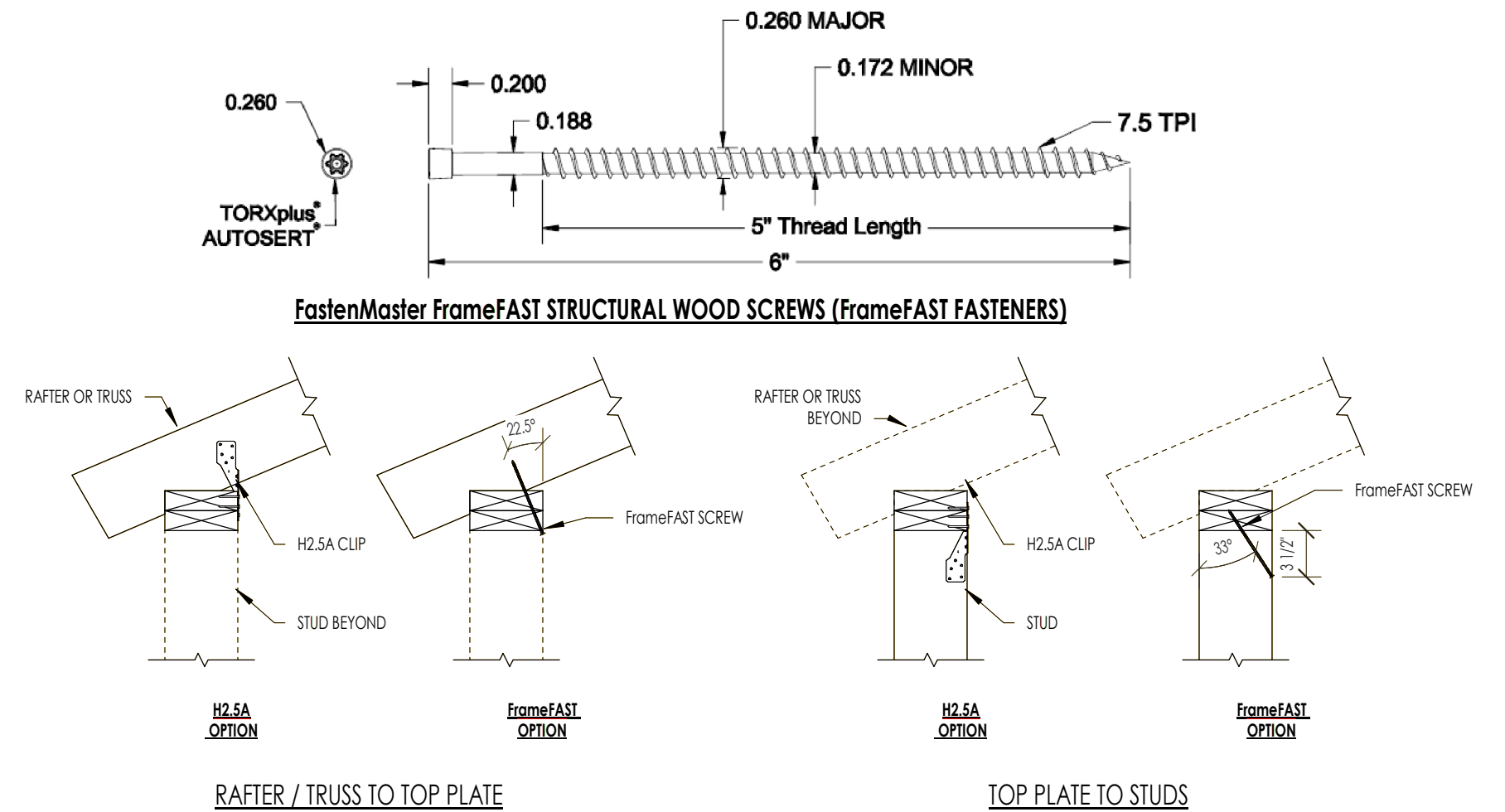
4E S4.0 ALLOWABLE HORIZONTAL HOLE LOCATIONS IN GLUE LAMINATED TIMBER BEAMS



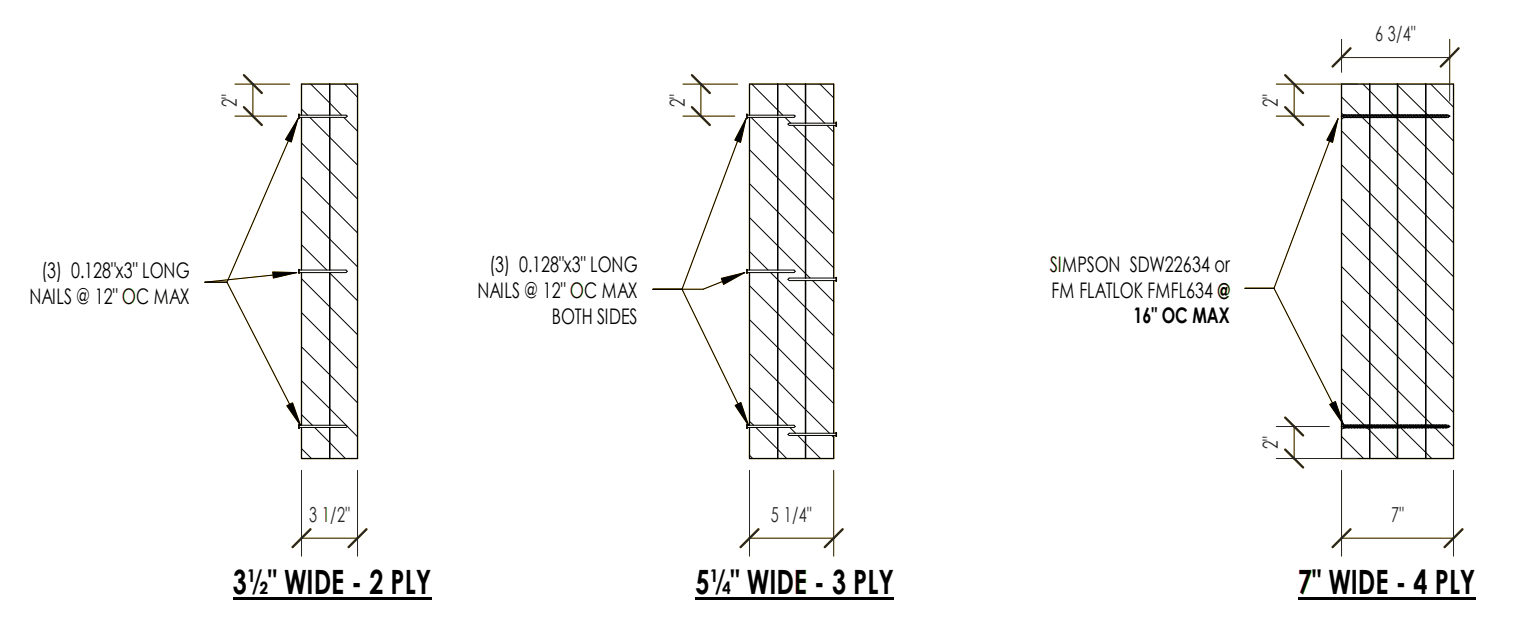
4D S4.0 TYPICAL NAILING CONFIGURATIONS



6C S4.0 ALLOWABLE NOTCHING AND BORING OF FLOOR JOISTS



4C S4.0 ALLOWABLE SUBSTITUTION OF H2.5A CLIPS WITH FrameFAST SCREWS - UPLIFT LOAD PATH

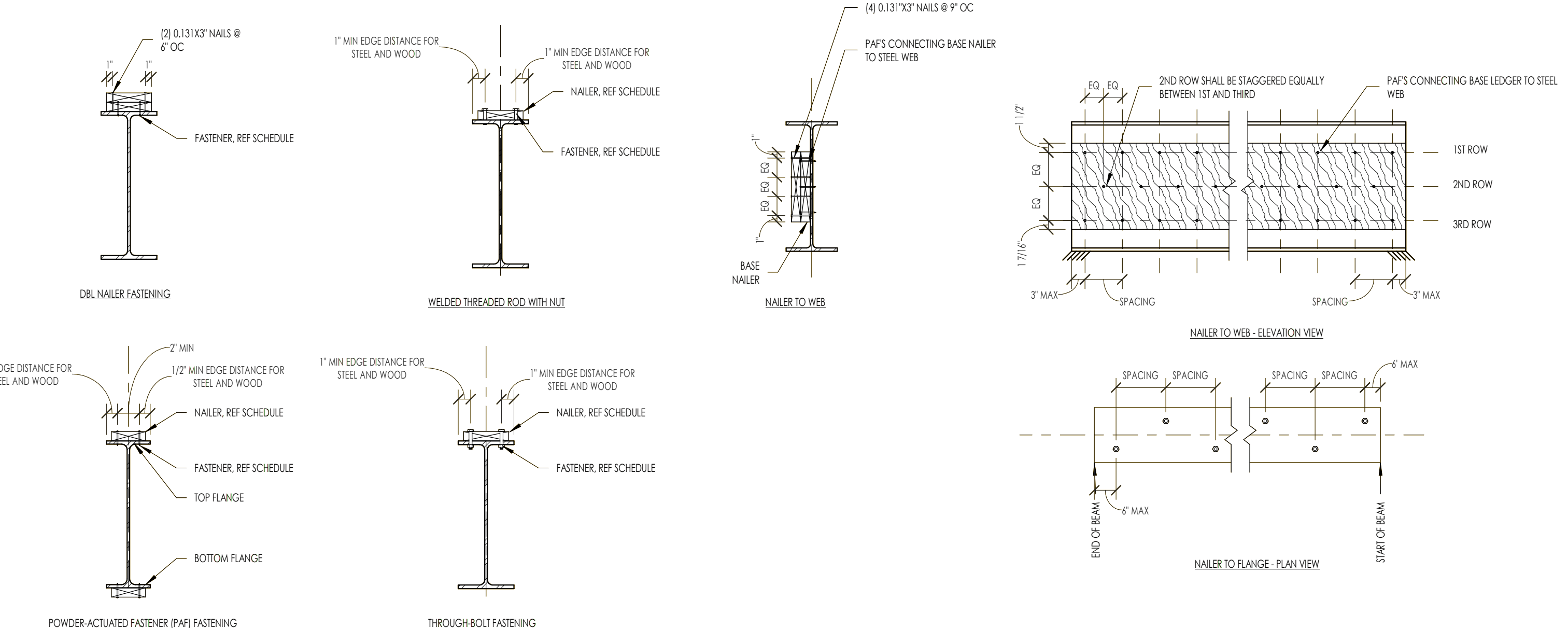


2C S4.0 TYPICAL LVL MULTIPLE PLY FASTENING REQUIREMENTS

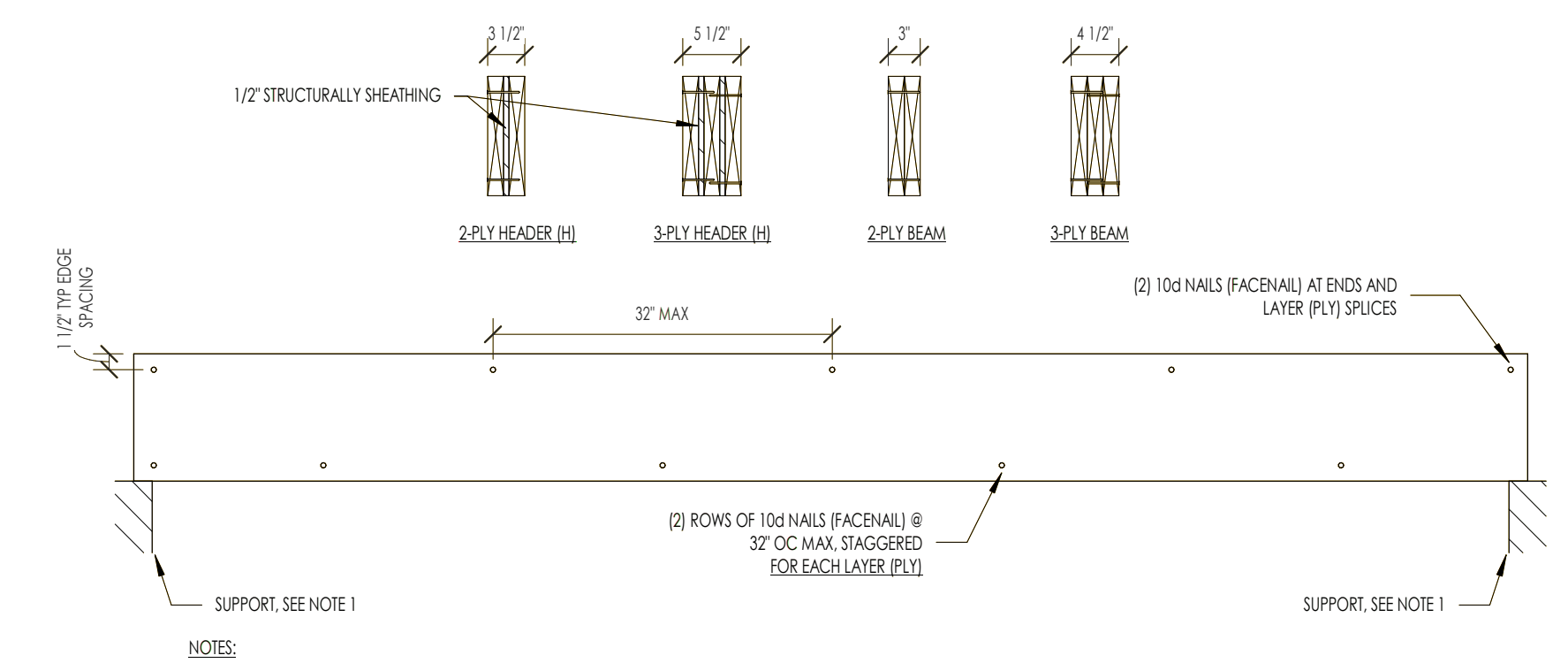
FASTENER SCHEDULE - TO BEAM TOP FLANGE			FASTENER SCHEDULE - TO BEAM WEB / BOTTOM FLANGE		
l ₁ (ft)	PAF FASTENER	BOLT / ROD*	l ₂ (ft)	PAF FASTENER	BOLT / ROD*
≤ 0.35	X-41 @ 12" OC	1/2"Ø @ 24" OC	≤ 0.35	(B) - X-41 @ 12" OC	(B) - 1/2"Ø @ 24" OC
0.35 < l ₁ ≤ 0.44	D5-47 @ 12" OC	1/2"Ø @ 24" OC	0.35 < l ₂ ≤ 0.44	(B) - D5-47 @ 12" OC	(B) - 1/2"Ø @ 24" OC
l ₁ > 0.44	N/A	1/2"Ø @ 12" OC	l ₂ > 0.44	N/A	(B) - 1/2"Ø @ 12" OC

NAILER SCHEDULE - TO BEAM FLANGE		NAILER SCHEDULE - TO BEAM WEB	
b (ft)	NAILER SIZE	d (ft)	NAILER SIZE
≤ 5.5	2x4	≤ 5	2x4
5.5 < b ≤ 7.25	2x6	5 < d ≤ 6.75	2x6
l ₁ > 7.25	2x8	6.75 < d ≤ 8.75	2x8
		8.75 < d ≤ 10.75	2x10
		10.75 < d ≤ 15	(2) - 2x8
		15 < d ≤ 19	(2) - 2x10
		19 < d ≤ 23	(2) - 2x12
		d > 23	(3) - 2x8

NOTES:
1. ALL FASTENERS SHALL BE STAGGERED.
2. FASTENER DESCRIPTIONS, ALL FASTENERS ARE POWDER-ACTUATED FASTENERS MFRD BY HELI, INC.
A. X-41
o. UNIVERSAL KNURLED SHANK FASTENER WITH A SHANK DIAMETER OF 0.157" AND A SHANK LENGTH OF 47 mm (1.85")
B. D5-47
o. HEAVY DUTY SMOOTH SHANK FASTENER WITH A SHANK DIAMETER OF 0.177" AND A SHANK LENGTH OF 47 mm (1.85")
3. FASTENER INSTALLATION SHALL FOLLOW ALL SPECIFICATIONS PER THE MFR.
4. THROUGH BOLTS SHALL BE GALVANNEED ASTM A509 BOLTS. THROUGH BOLTS SHALL BE GALVANNEED ASTM F1554 GR.36.



4A S4.0 WOOD NAILER TO TOP OF STRUCTURAL STEEL



2A S4.0 TYPICAL NAILING BUILT UP BEAMS, GIRDERS & HEADERS

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Date	Description
04/10/2022	Release for permit
08/26/2022	PERMIT REVISIONS

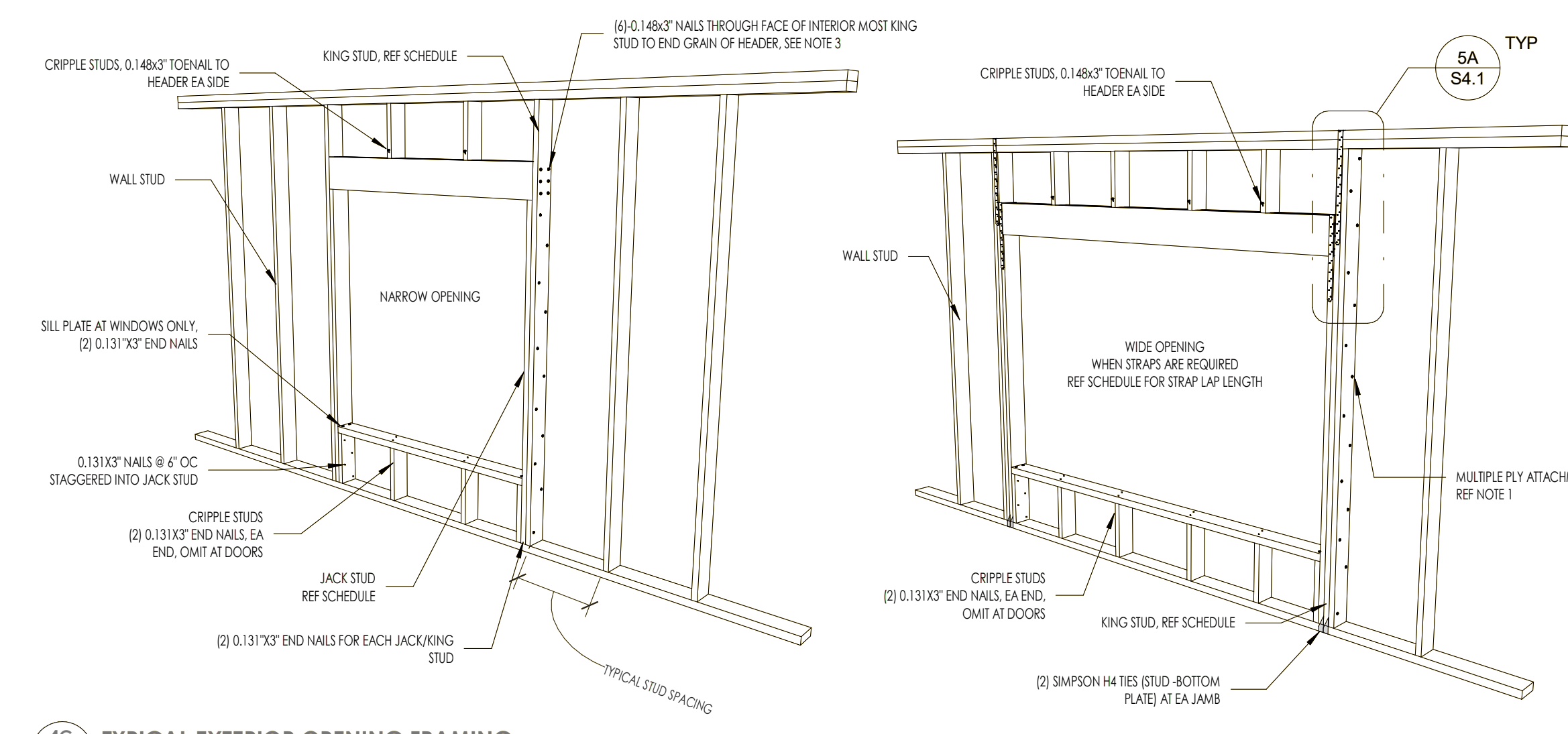
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2X4 STUD WALL

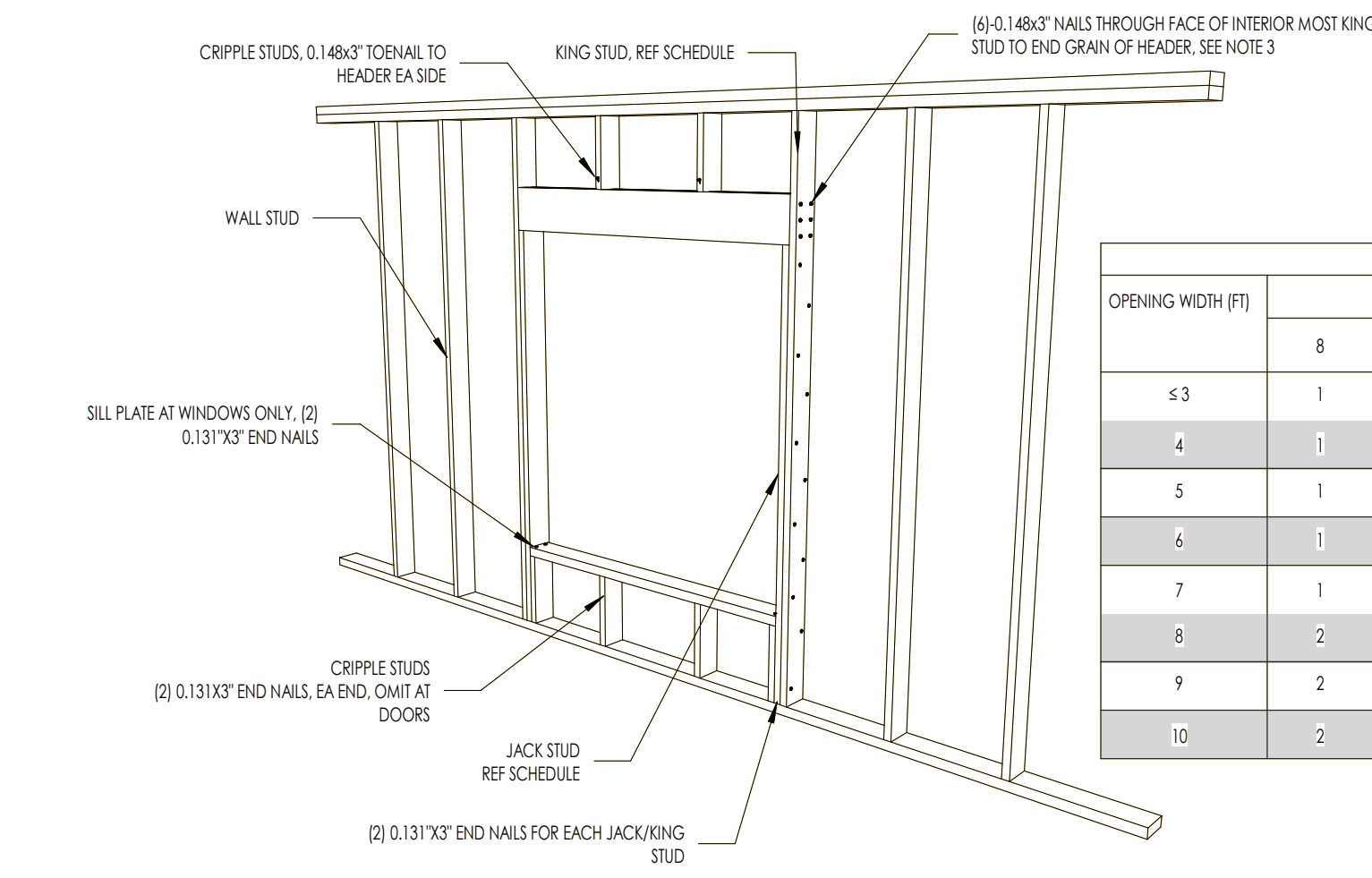
OPENING WIDTH (FT)	REQUIRED NO. OF KING STUDS				NO. JACK STUDS	STRAP LAP LENGTH (IN)
	8	9	10	12		
≤3	1	1	1	2	2	1
4	1	1	2	2	2	1
5	2	2	2	3	3	1
6	2	2	3	3	3	1
7	2	2	3	3	4X6	1
8	3	3	3	4X6	4X6	2
9	3	3	4X6	4X6	4X6	2
10	3	3	4X6	4X6	4X6	2

2X6 STUD WALL

OPENING WIDTH (FT)	REQUIRED NO. OF KING STUDS				NO. JACK STUDS	STRAP LAP LENGTH (IN)
	8	9	10	12		
≤3	1	1	1	1	1	1
4	1	1	1	1	1	1
5	1	1	1	1	2	1
6	1	1	1	2	2	1
7	1	1	2	2	2	1
8	1	1	2	2	2	2
9	1	2	2	2	2	2
10	1	2	2	2	3	2

NOTES:
1. MULTIPLE PLYS MUST BE ATTACHED PER THE MECHANICALLY LAMINATED BUILT-UP COLUMN NAIL DETAIL.
2. TABLE IS BASED OFF A HORIZONTAL WIND PRESSURE OF 20 PSF AND GRAVITY LOADING OF 200 PLF.
3. NAILS MUST BE CENTERED ON THE INDIVIDUAL PLYS OF THE HEADER.
4. N/R = NOT REQUIRED. IF N/R, THEN REFERENCE NARROW OPENING DIAGRAM FOR CONNECTION REQUIREMENTS, OTHERWISE REFERENCE THE WIDE OPENING DIAGRAM.

4C TYPICAL EXTERIOR OPENING FRAMING



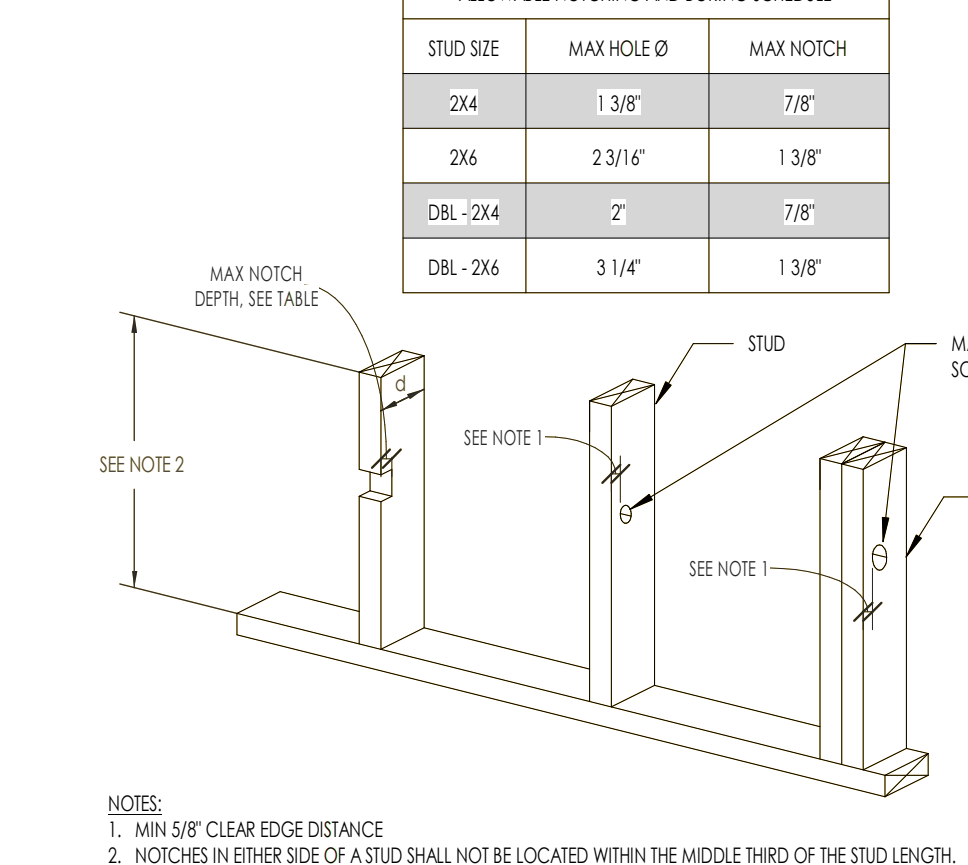
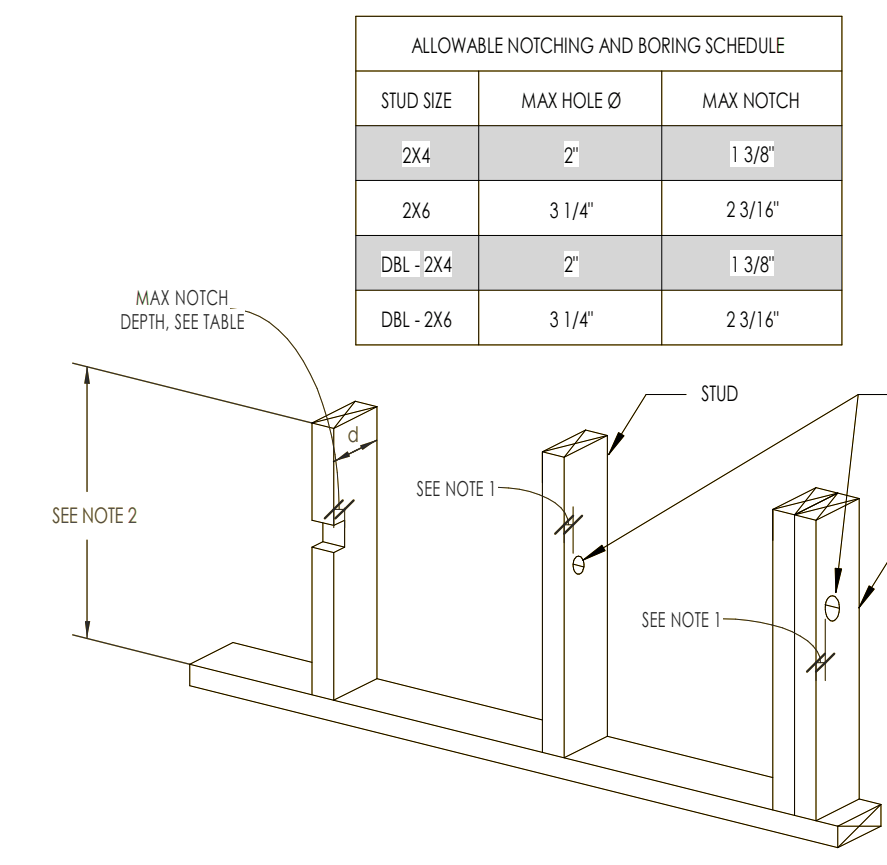
LOAD BEARING WALL

OPENING WIDTH (FT)	REQUIRED NO. OF KING STUDS				NO. JACK STUDS	HEADER SIZE
	8	9	10	12		
≤3	1	1	1	1	1	2X6H 32XH
4	1	1	1	1	1	2X6H 32XH
5	1	1	2	2	2	2X6H 32XH
6	1	1	2	2	2	2X6H 32XH
7	1	2	2	3	3	2X6H 32XH
8	2	2	3	3	3	2X10H 3210H
9	2	2	3	3	3	2X10H 3210H
10	2	2	3	3	3	2X10H 3210H

NON-LOAD BEARING WALL

OPENING WIDTH (FT)	REQUIRED NO. OF KING STUDS				NO. JACK STUDS	HEADER SIZE
	8	9	10	12		
≤3	1	1	1	1	1	2X4 STUD WALL 2X4 STUD WALL
4	1	1	1	1	1	2X4H 32XH
5	1	1	1	2	2	2X4H 32XH
6	1	1	2	2	2	2X4H 32XH
7	1	1	2	2	3	2X4H 32XH
8	2	2	2	3	3	2X10H 3210H
9	2	2	3	3	3	2X10H 3210H
10	2	2	3	3	3	2X10H 3210H

NOTES:
1. LOAD BEARING WALLS AND ASSOCIATED HEADERS ARE INDICATED ON PLAN.



5B TYPICAL INTERIOR OPENING FRAMING

2B ALLOWABLE STUD NOTCHING AND BORING IN INTERIOR NON-LOAD BEARING WALLS

1B ALLOWABLE STUD NOTCHING AND BORING IN EXTERIOR & LOAD BEARING WALLS

5A S4.1 TYPICAL STRAP AT WIDE EXTERIOR OPENINGS

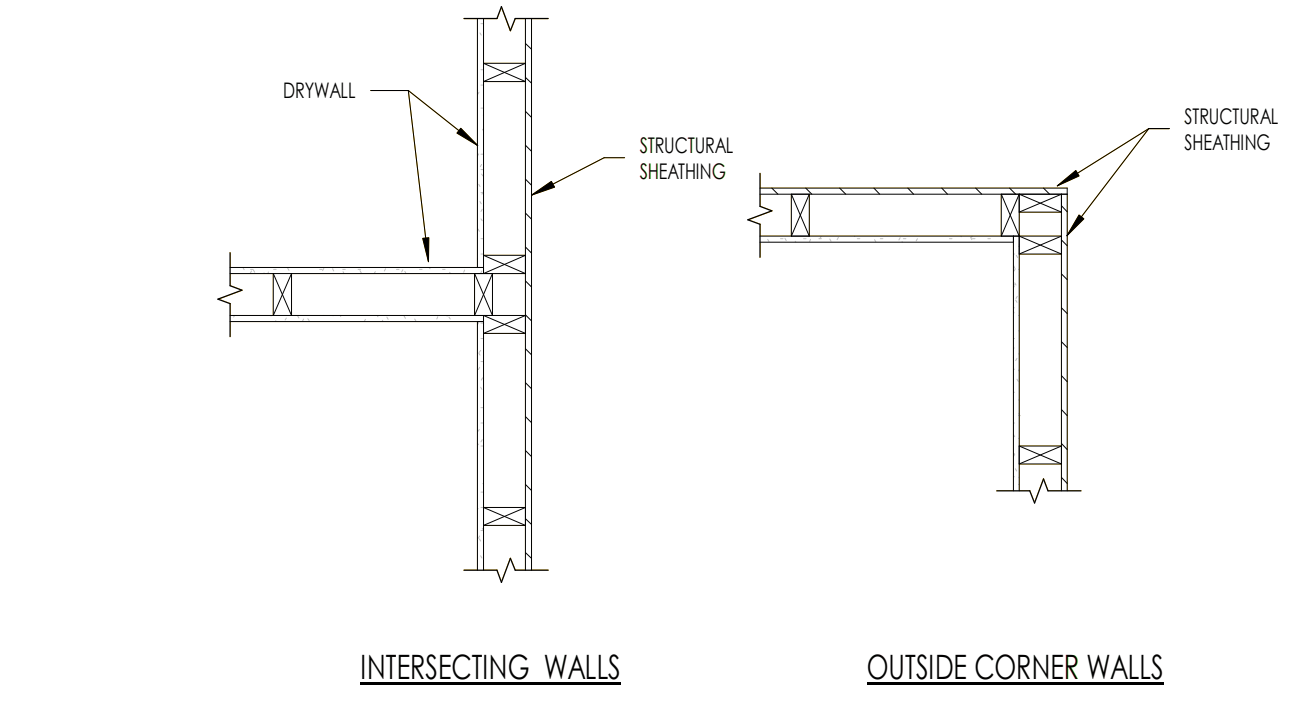
BUILT-UP SECTION	NAIL SIZE	SPACING	NO. ROWS	NOTES
(2) 2X4	0.131 x 2"	6"	1	STAGGERED
(2) 2X6	0.131 x 3"	8"	2	
(3) 2X4	0.131 x 4"	6"	1	STAGGERED
(3) 2X6	0.131 x 4"	8"	2	

NOTES:
1. END DISTANCE: THE FIRST FASTENERS SHALL BE LOCATED 2" FROM THE END OF THE COLUMN ON EACH END.
2. EDGE DISTANCE: 3/4" EDGE DISTANCES 1/2"

6A S4.1 MECHANICALLY LAMINATED BUILT-UP COLUMN (STUD PACK) - NAILED

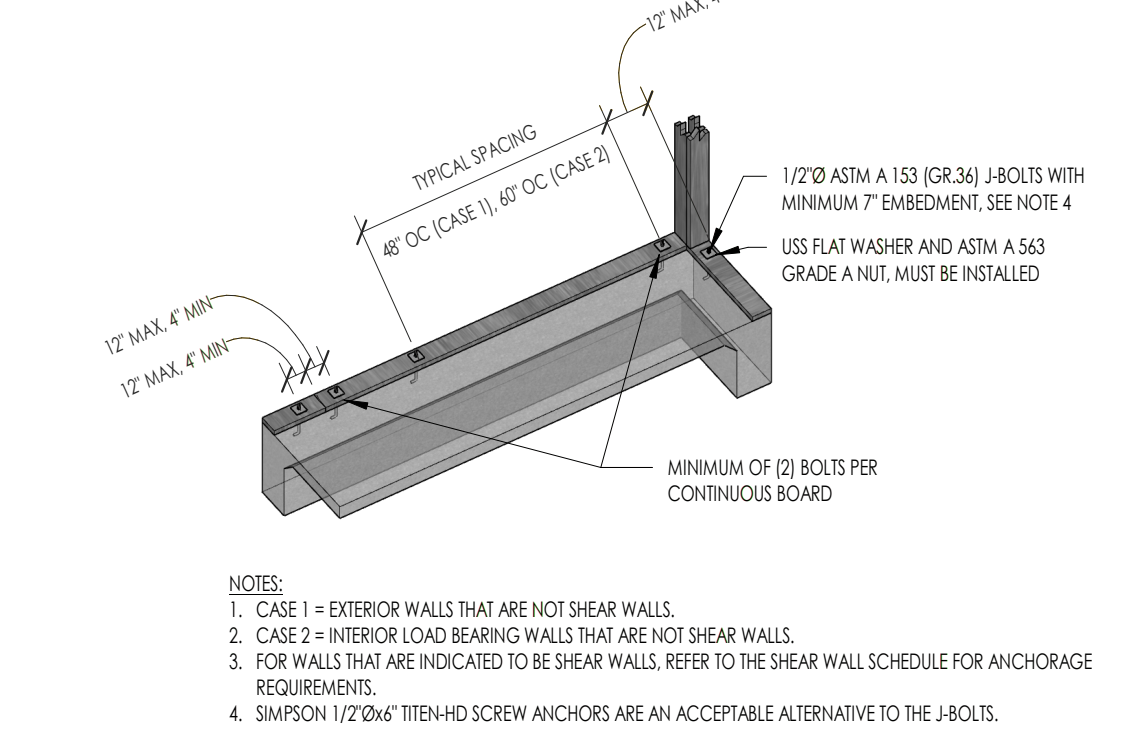
ADJACENT NAILS SHALL BE DRIVEN FROM OPPOSITE SIDES OF THE COLUMN
ADJACENT NAILS SHALL BE DRIVEN FROM OPPOSITE SIDES OF THE COLUMN
(1) ROW - STAGGERED
(2) ROWS
EDGE DISTANCE
MINIMUM 1/2" MINIMUM
C318 STRAP WRAPPED AROUND EACH SIDE OF KING STUD
LAP, REF SCHEDULE 4C S4.1
C322 STRAP WRAPPED AROUND EACH SIDE OF JACK STUD
4C S4.1 STRAP @ 6" OC

5A TYPICAL STRAP AT WIDE EXTERIOR OPENINGS



4A TYPICAL CORNER AND INTERSECTION WALL STUDS (NOT AT SHEAR WALL)

3A TYPICAL LOAD BEARING / SHEAR WALL DOUBLE TOP PLATE SPlice



2A TYPICAL BOTTOM PLATE ANCHORAGE

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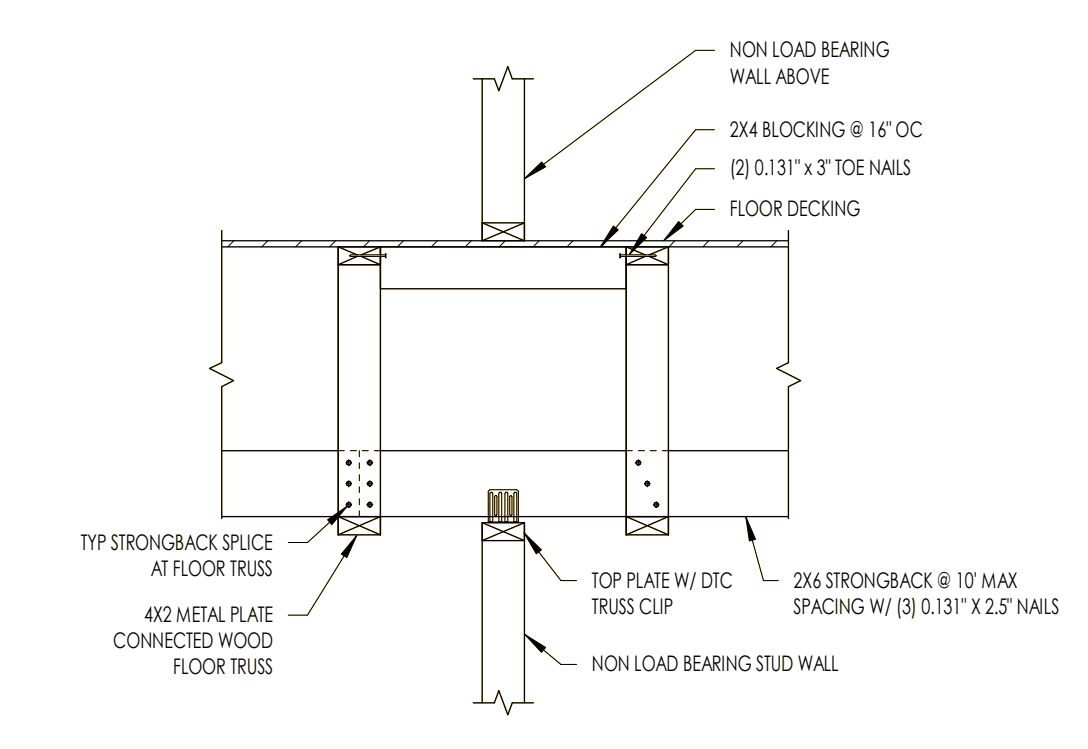
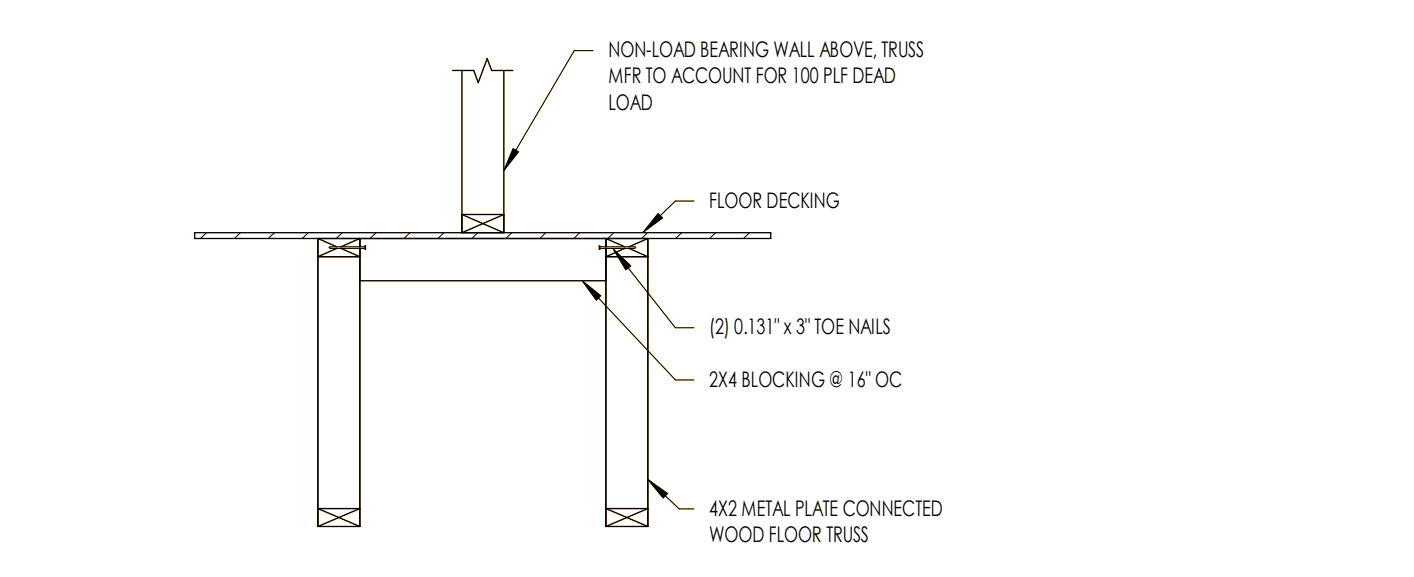
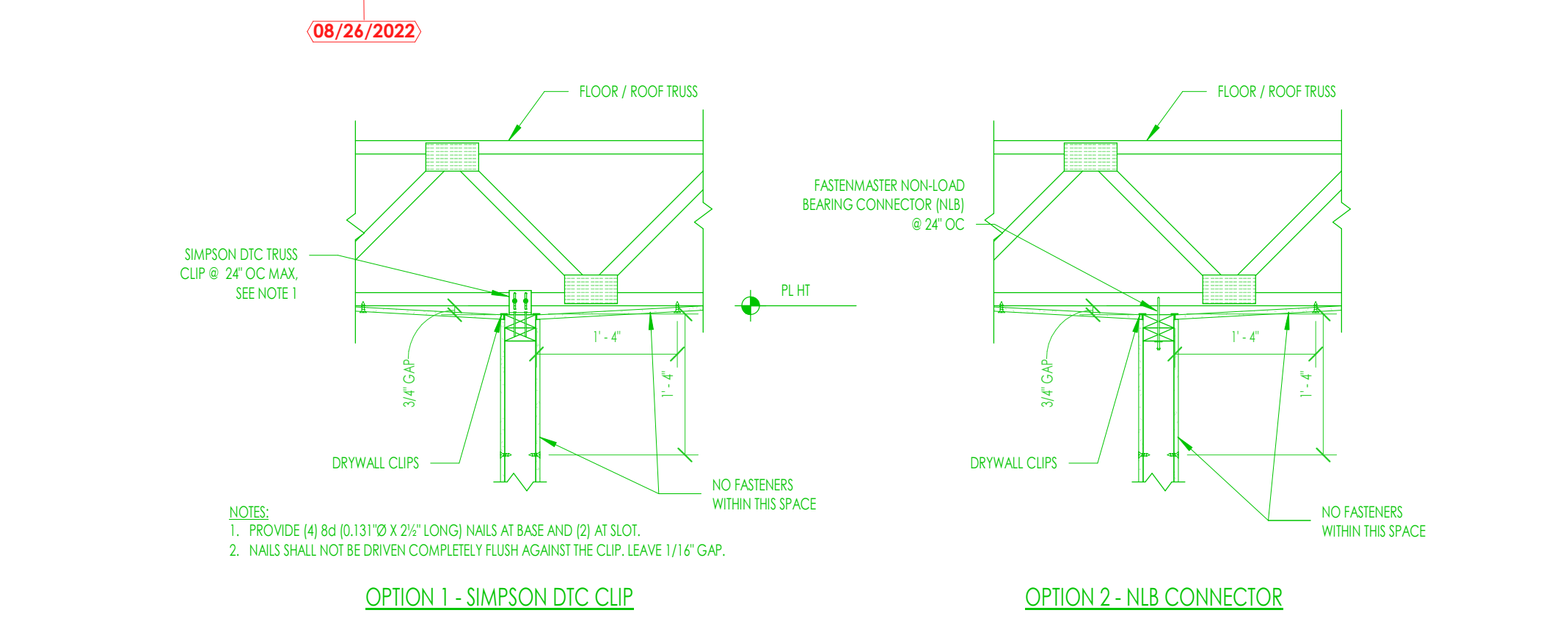
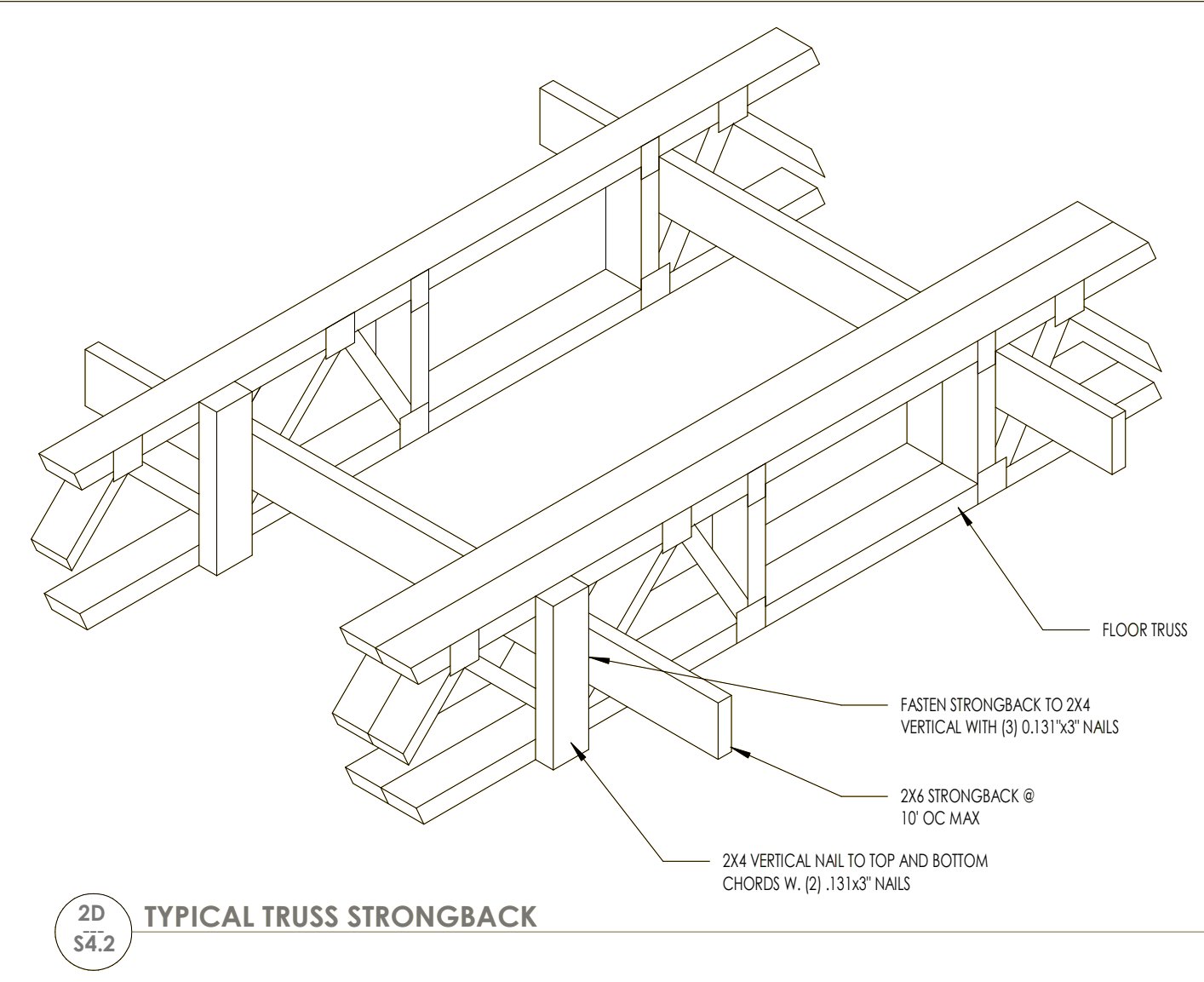
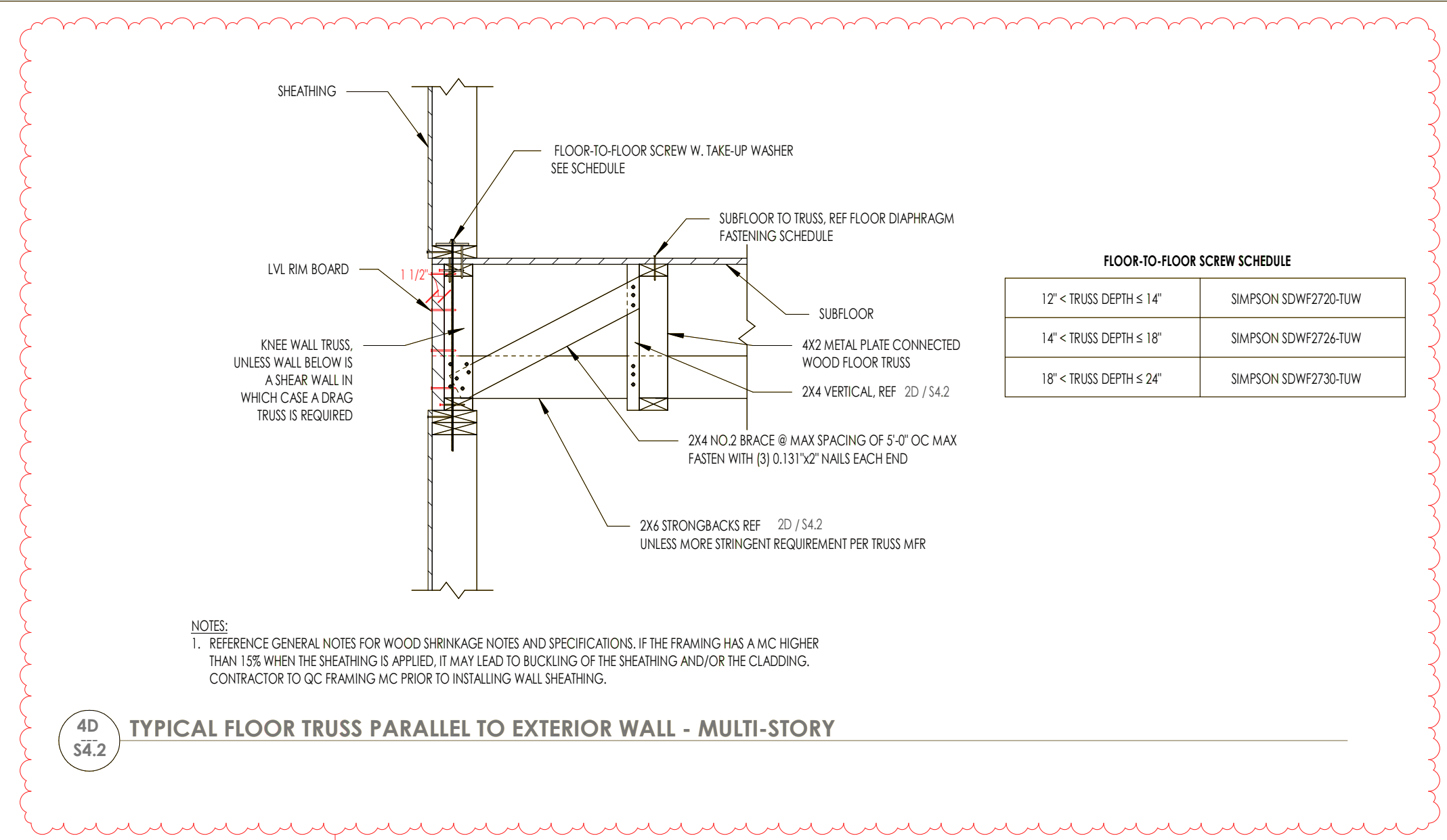
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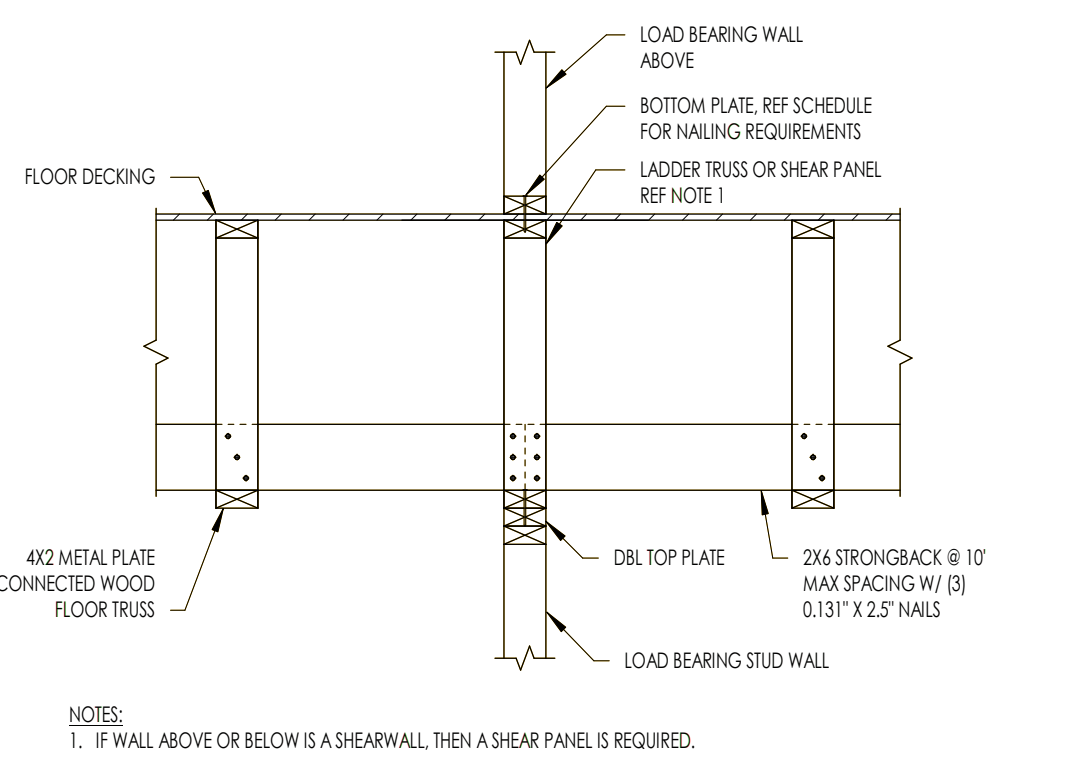
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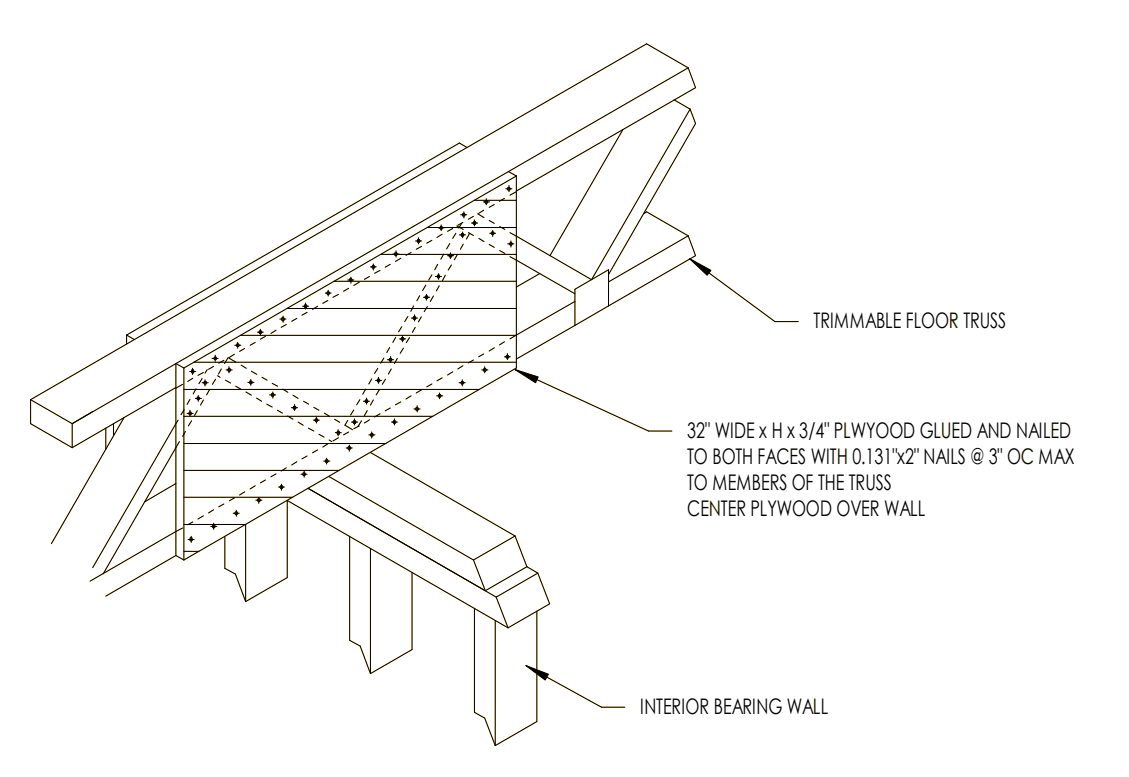
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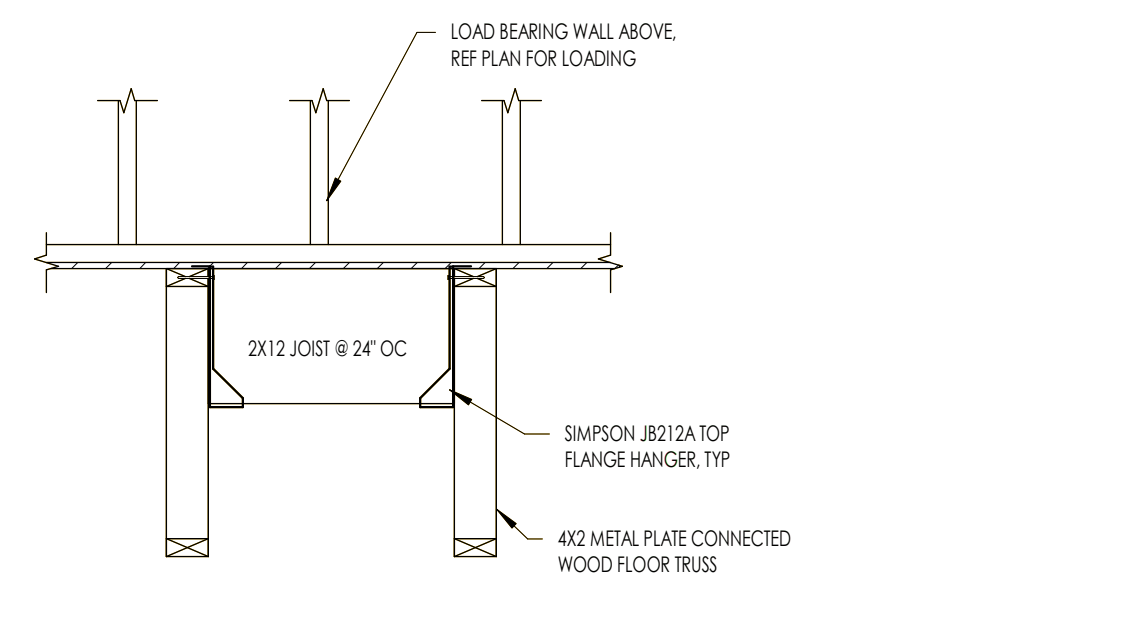
5C TYPICAL NON-LOAD BEARING WALL PARALLEL TO FLOOR TRUSSES



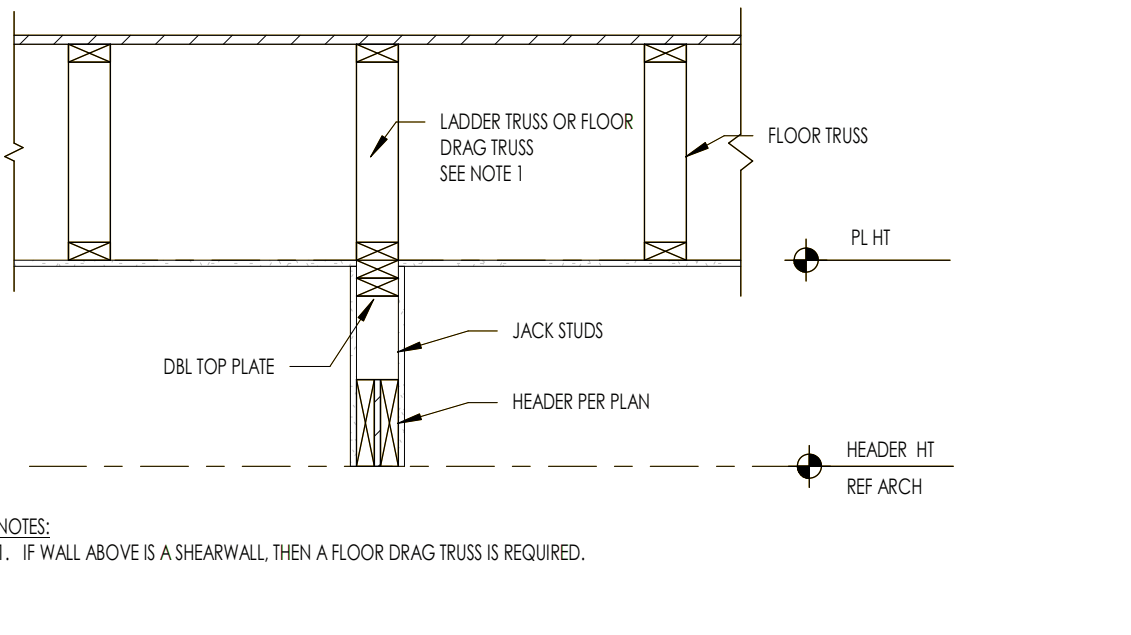
1C TYPICAL LOAD BEARING WALL PARALLEL TO FLOOR TRUSSES



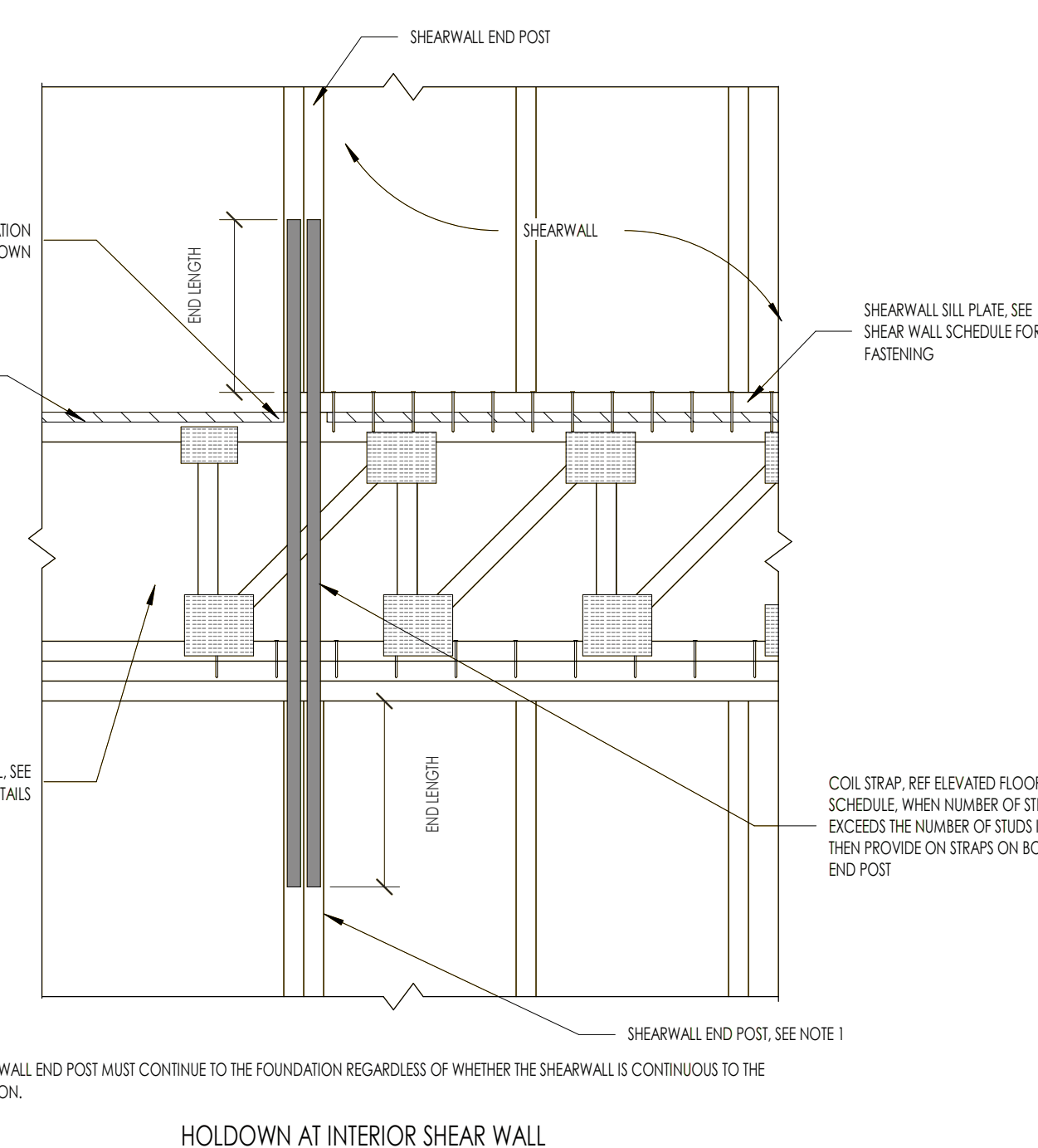
1B TYPICAL TRIMMABLE TRUSS STIFFENING AT INTERIOR SUPPORT



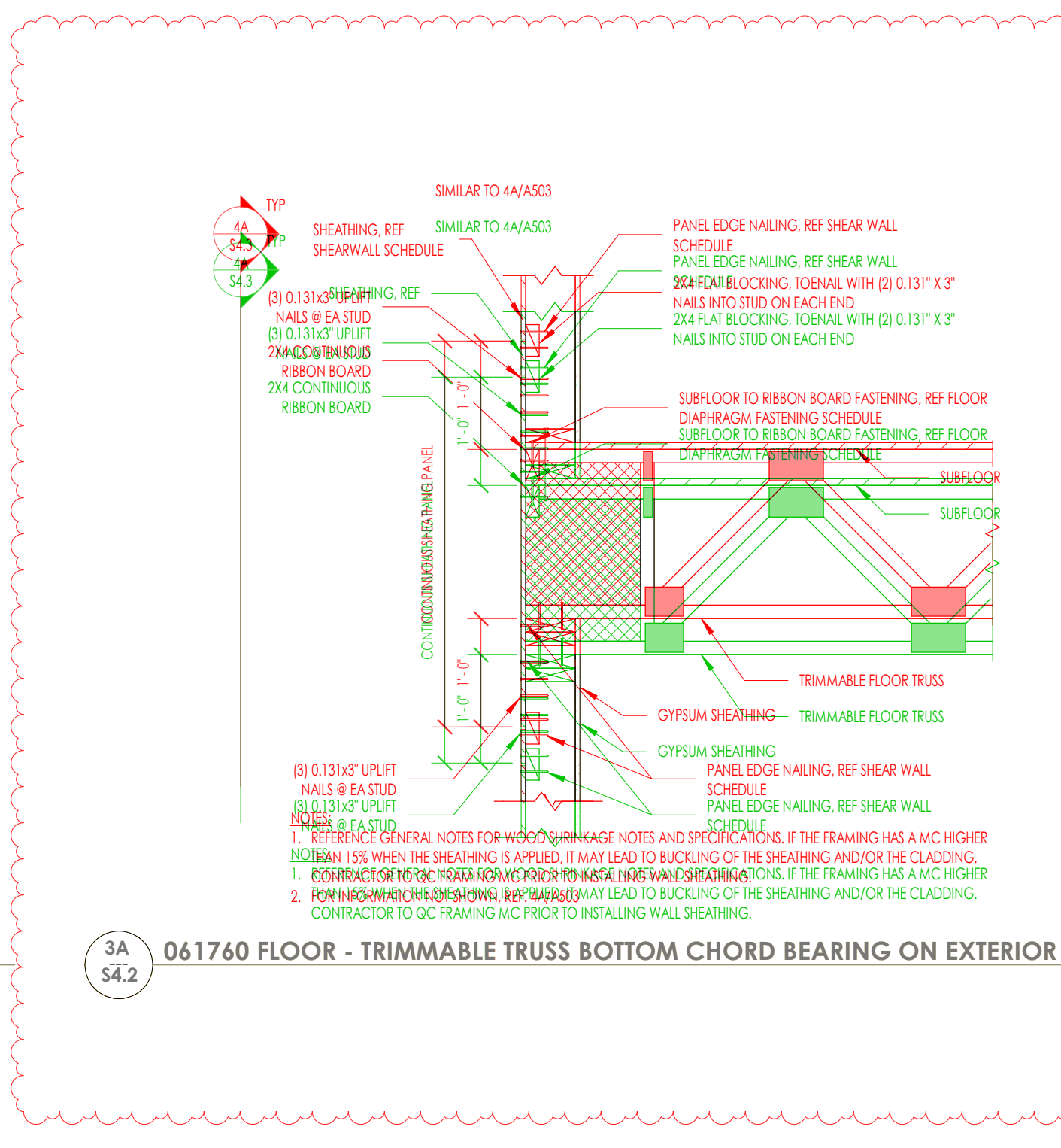
3B TYPICAL LOAD BEARING WALL PERP. TO FLOOR TRUSS



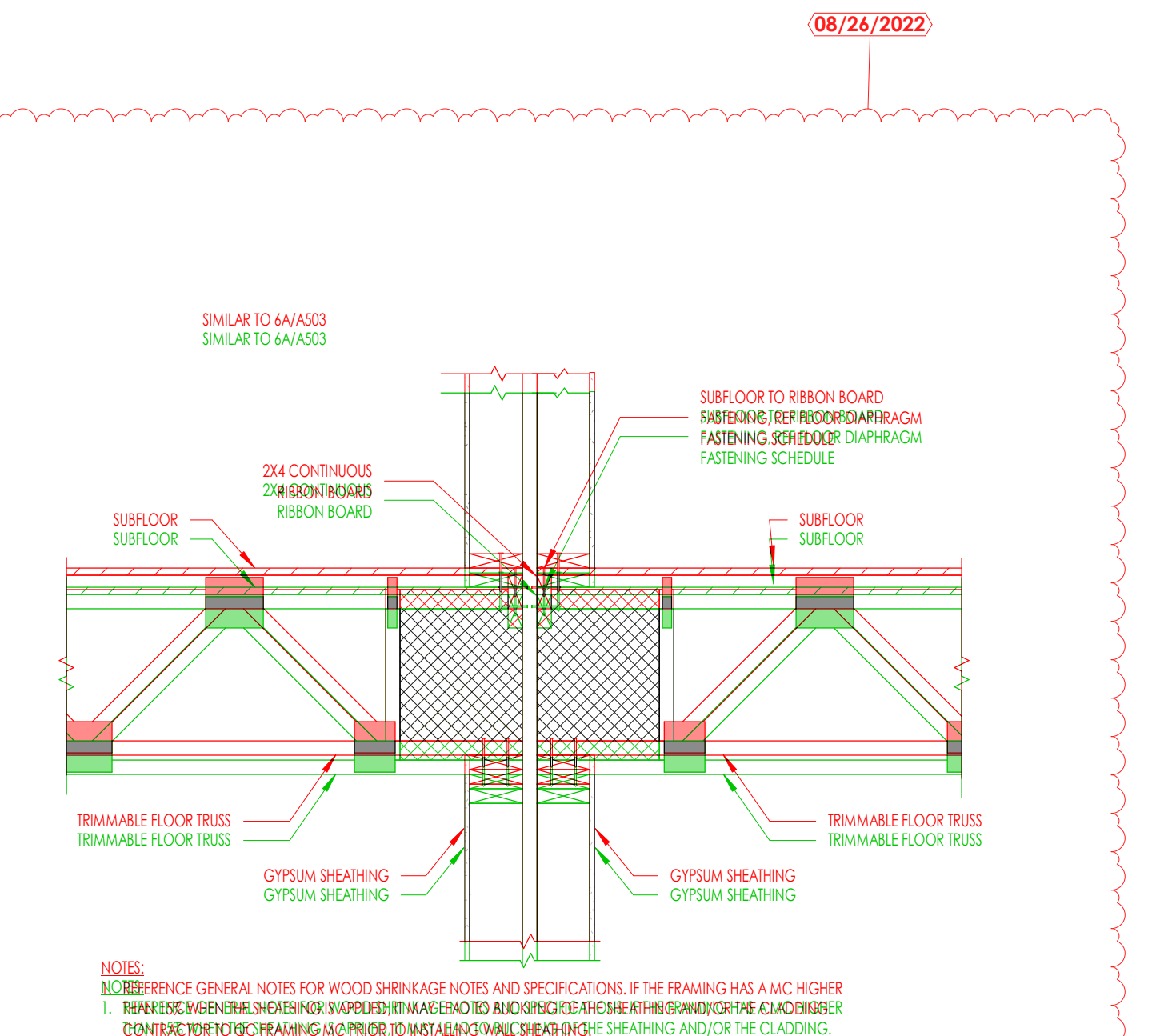
2B TYPICAL LOAD BEARING HEADER PARALLEL TO FLOOR TRUSSES



6A TYPICAL SHEARWALL HOLDDOWN AT ELEVATED FLOOR



3A 061760 FLOOR - TRIMMABLE TRUSS BOTTOM CHORD BEARING ON EXTERIOR WALL



2A TYPICAL INTERIOR BOTTOM CHORD BEARING AT PARTY WALL

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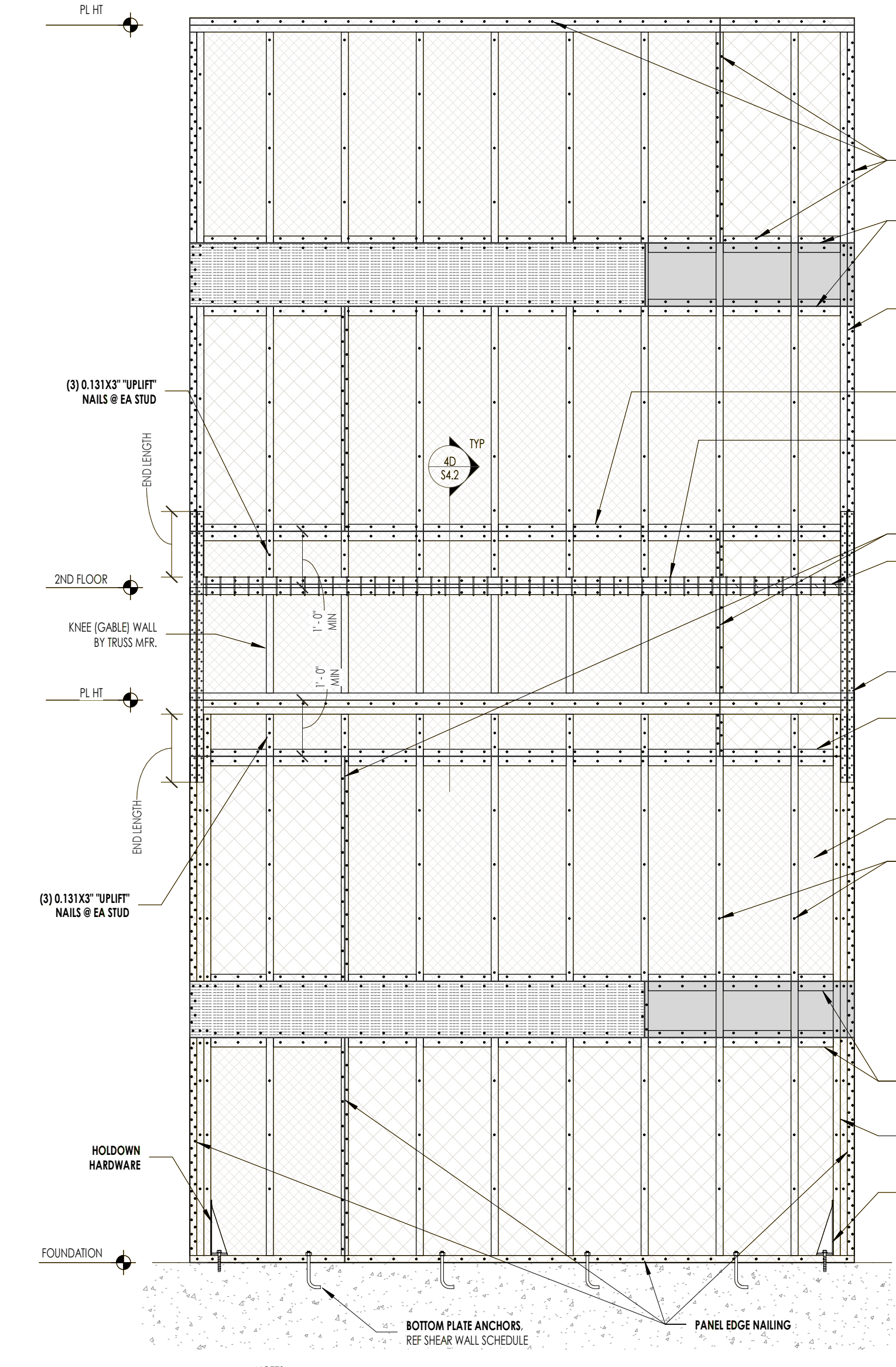
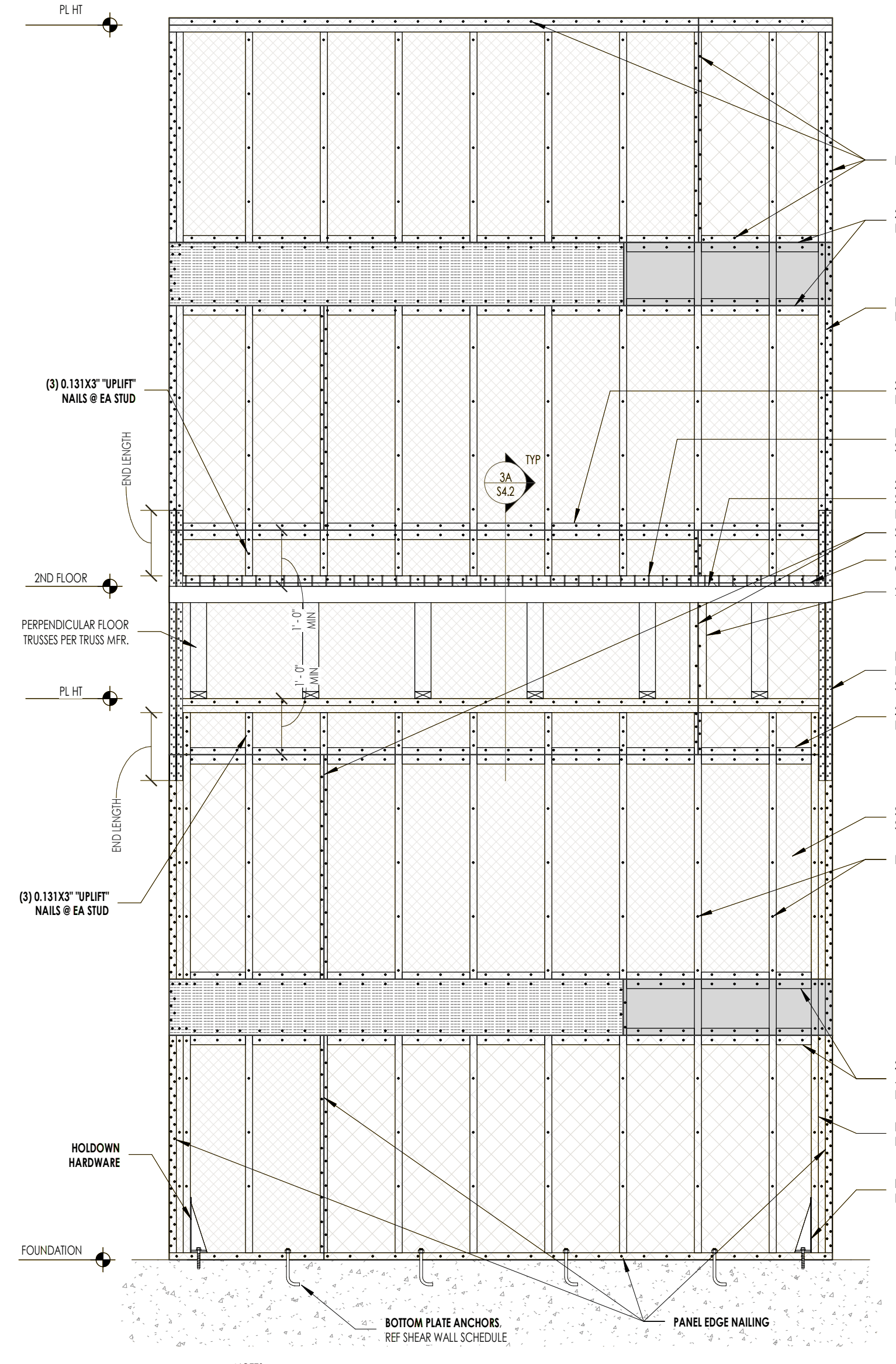
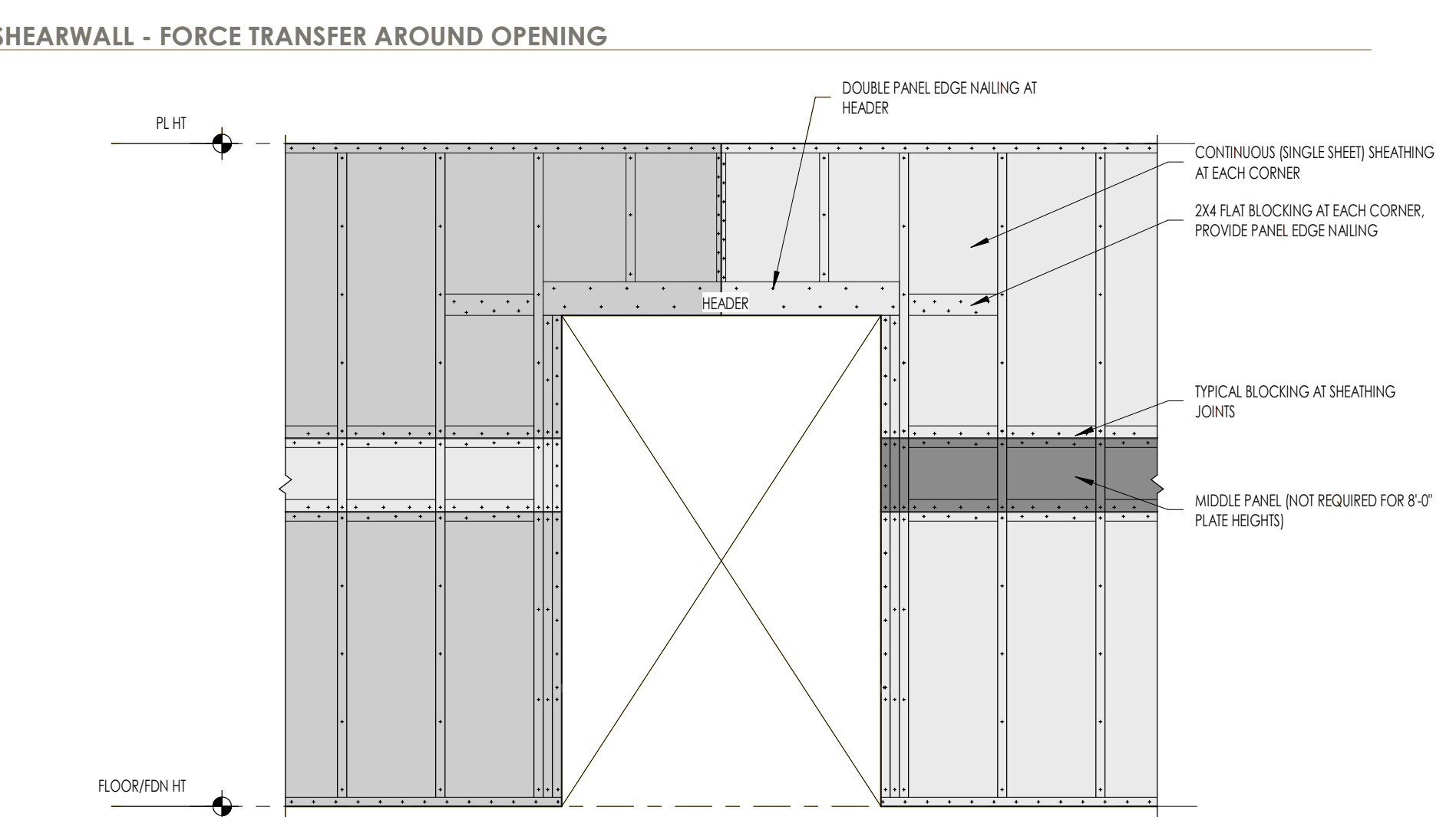
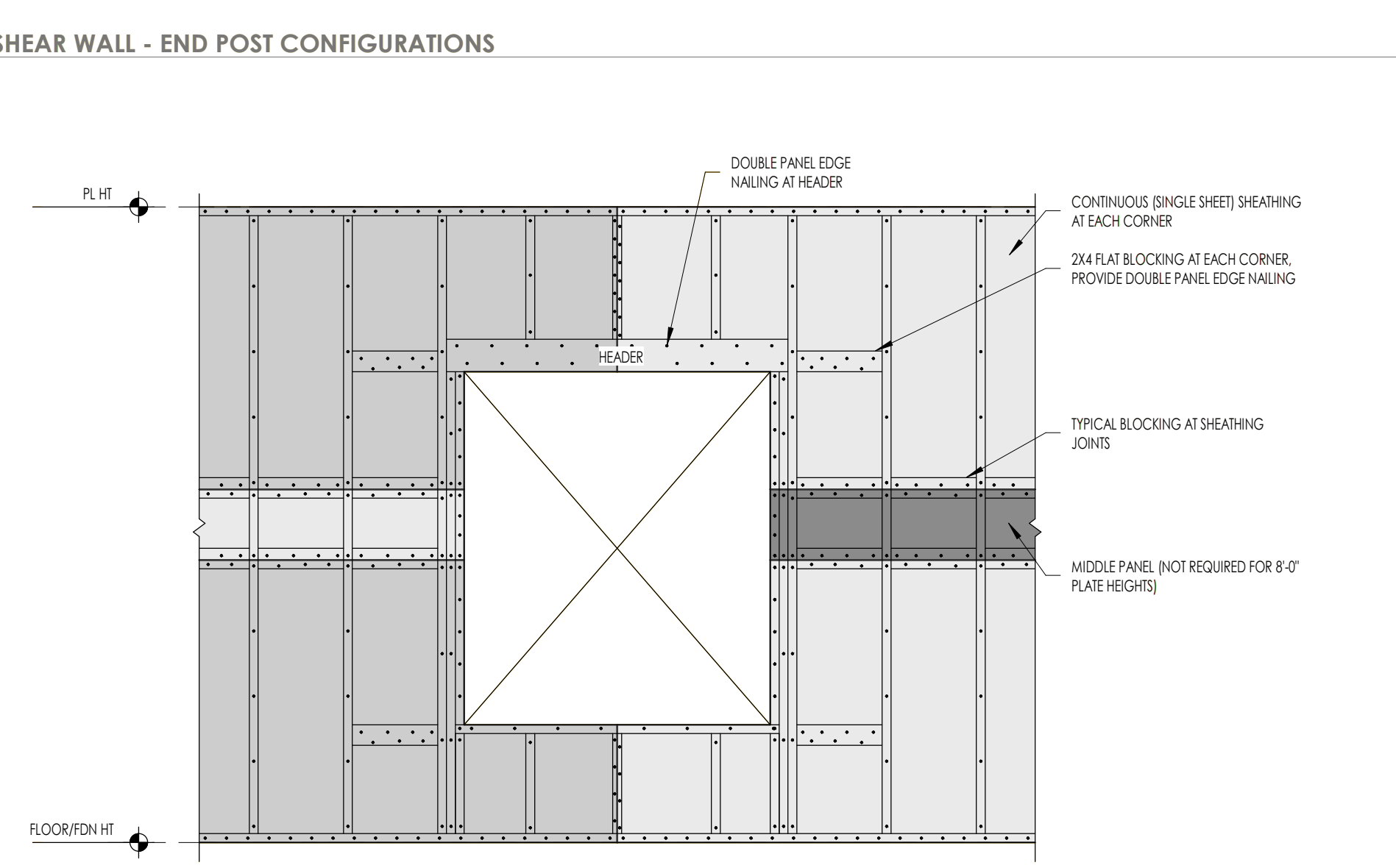
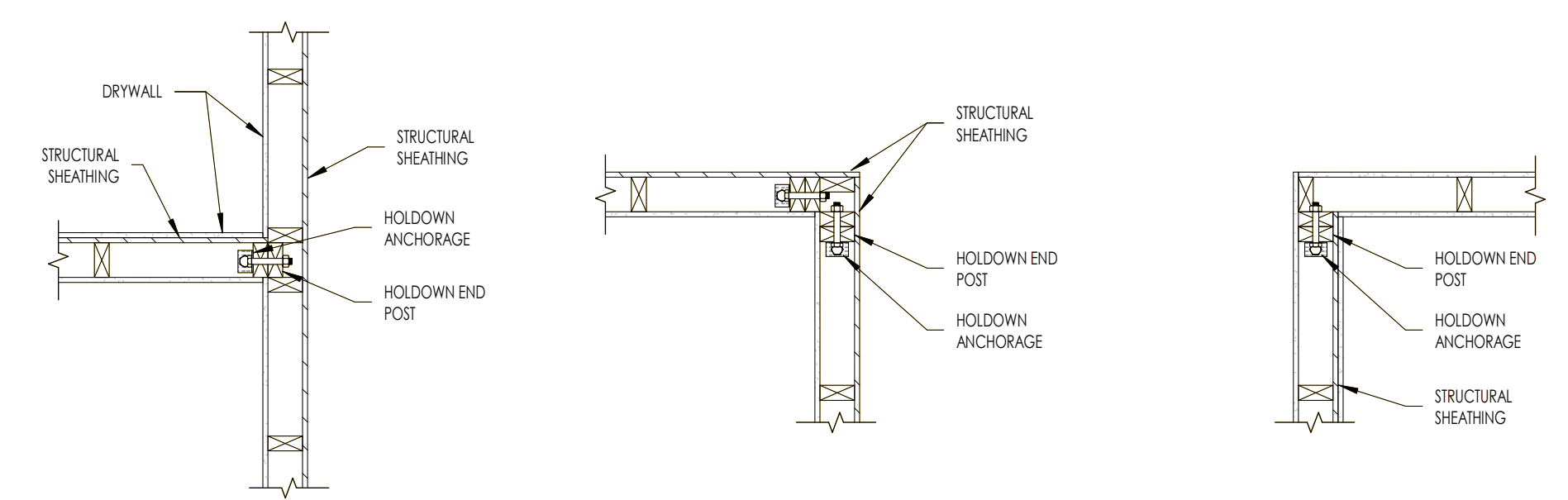
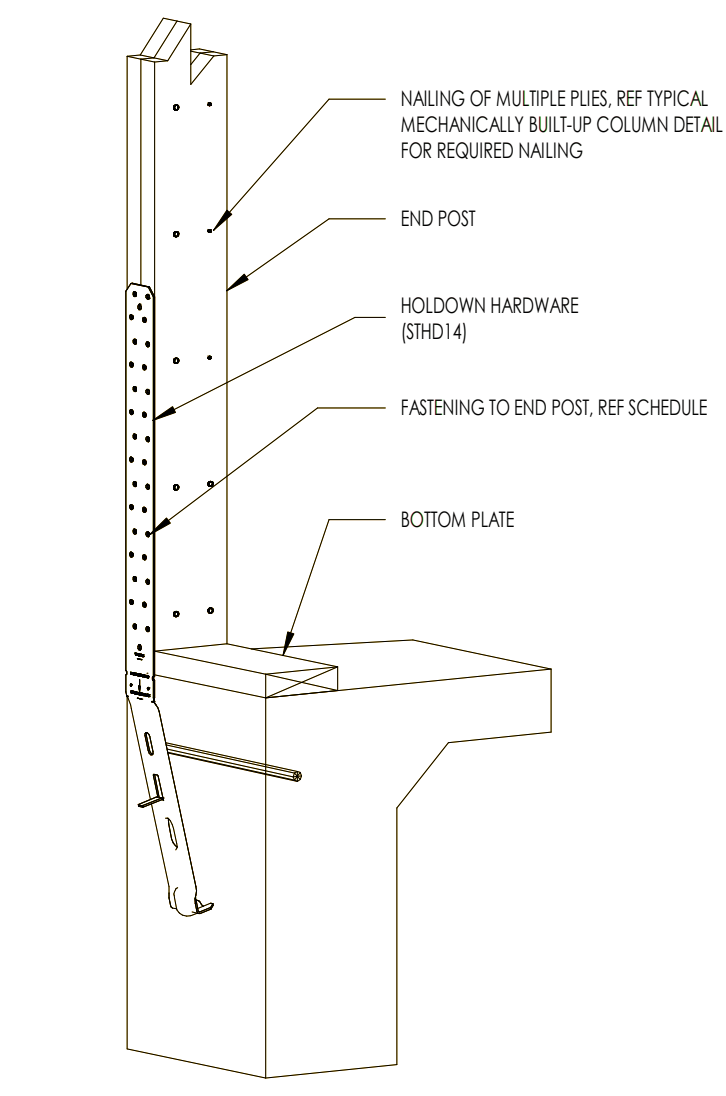
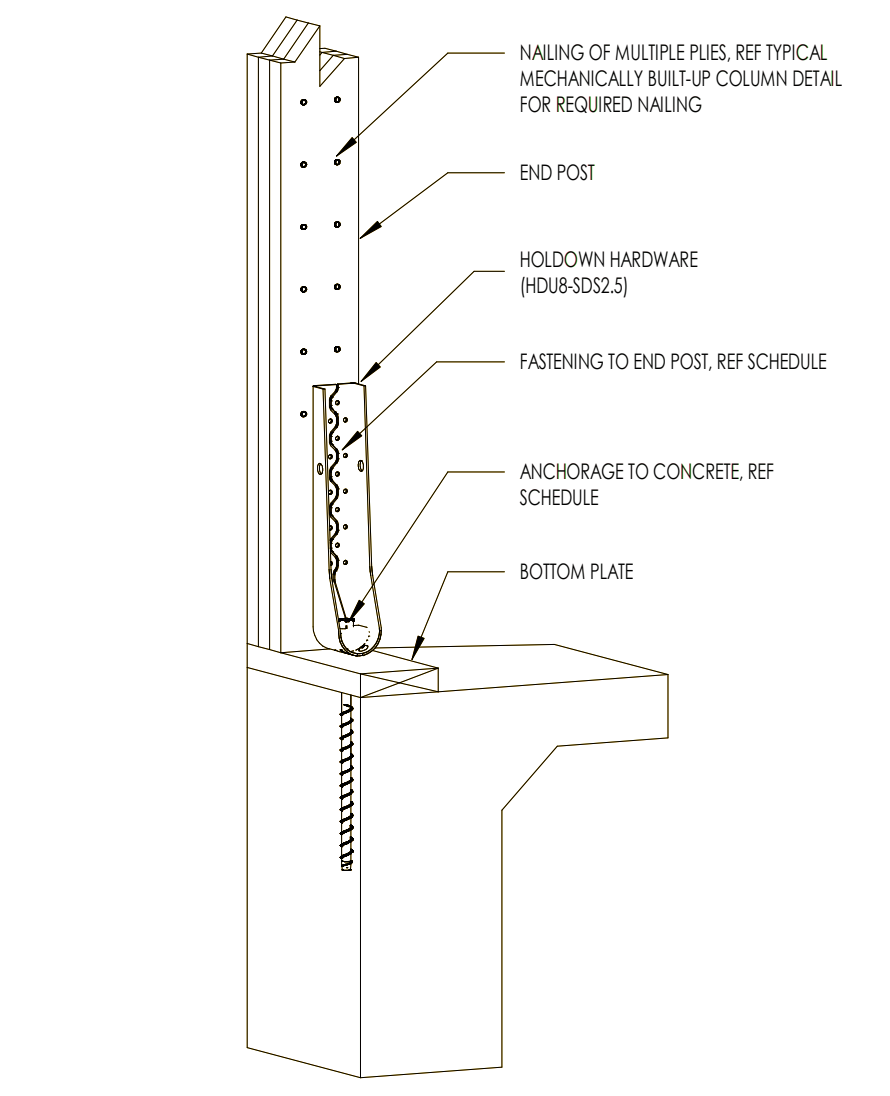
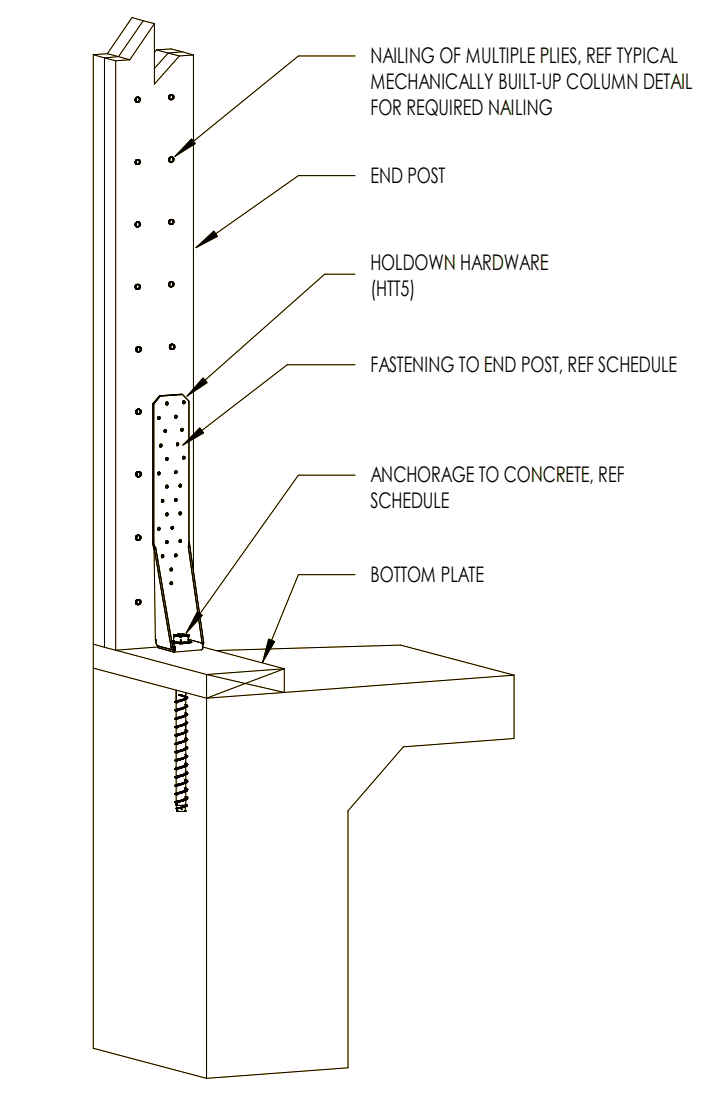
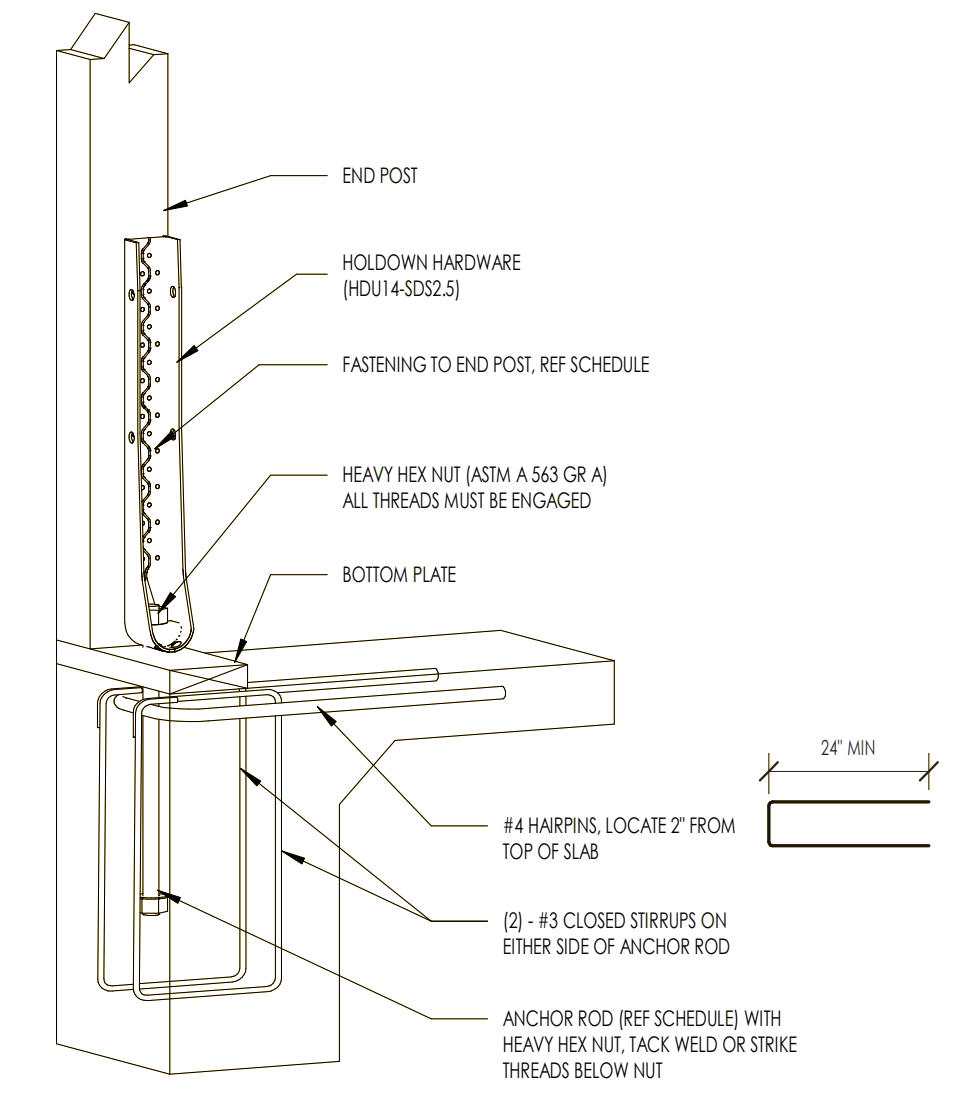
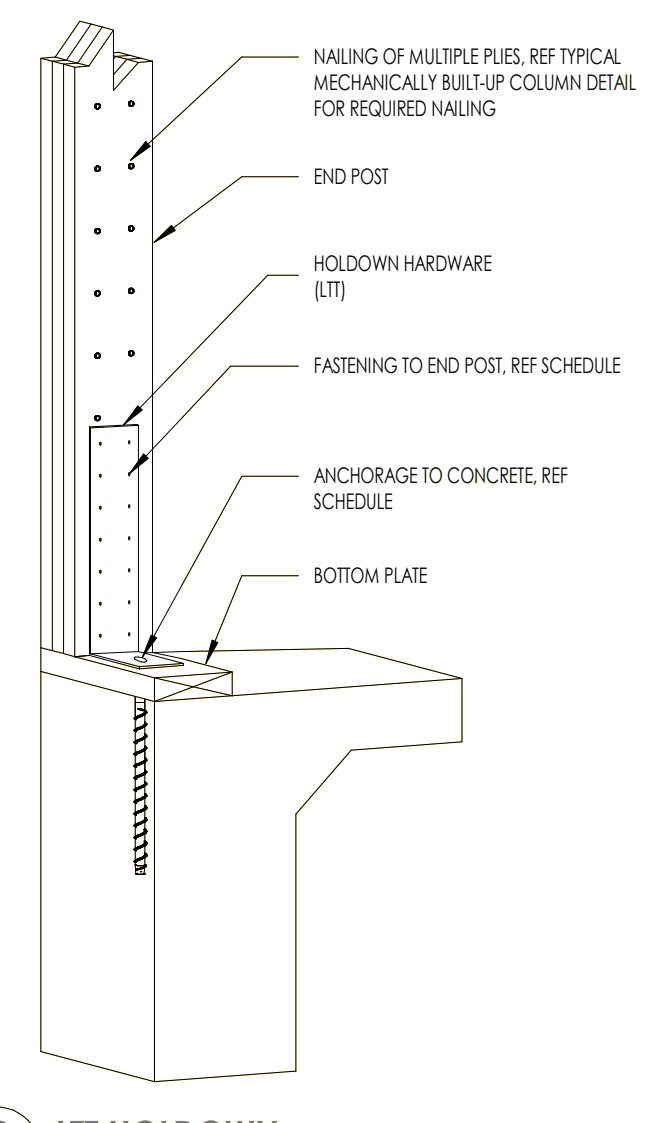
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08/24/2022	PERMIT REVISIONS

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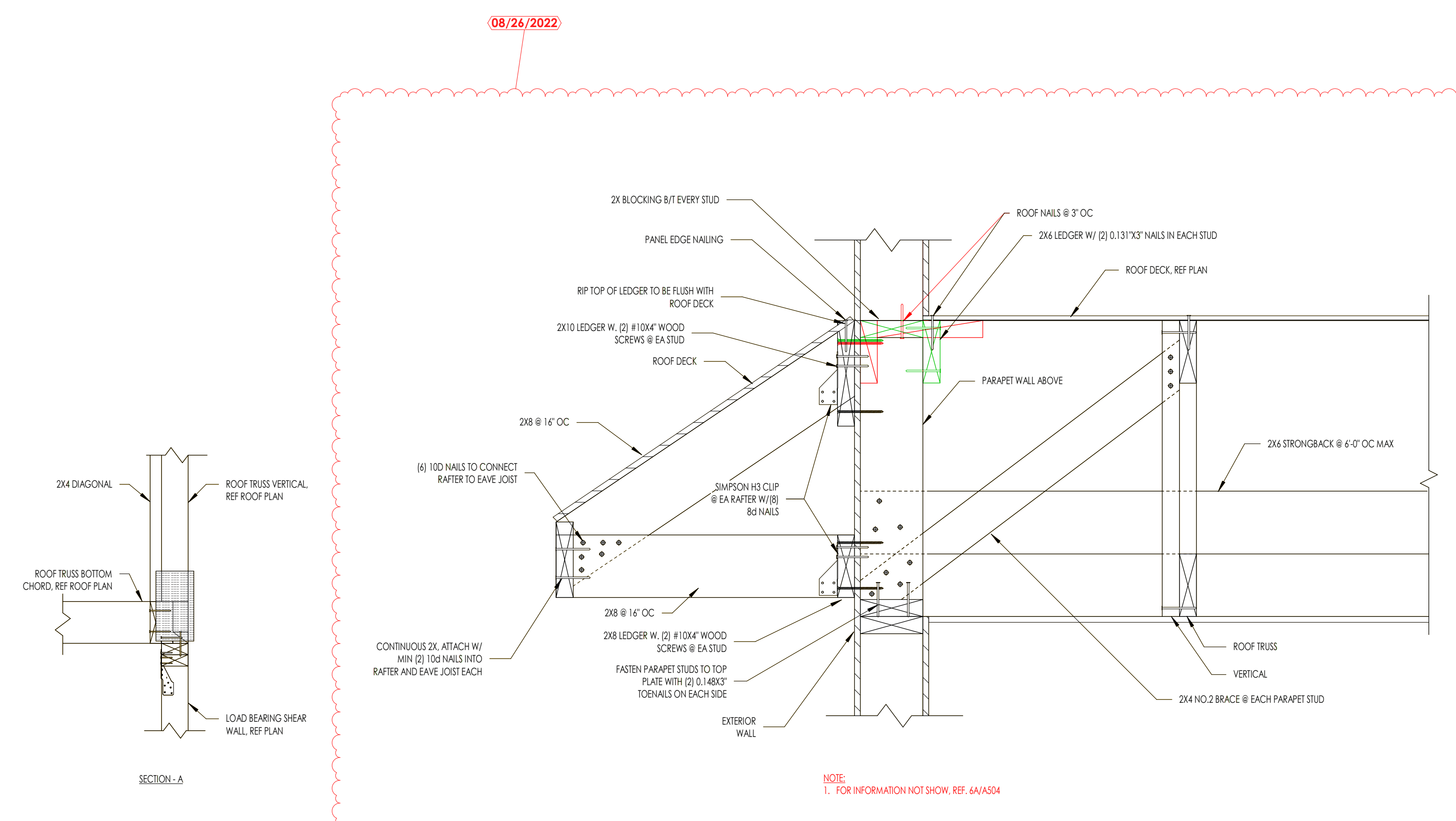
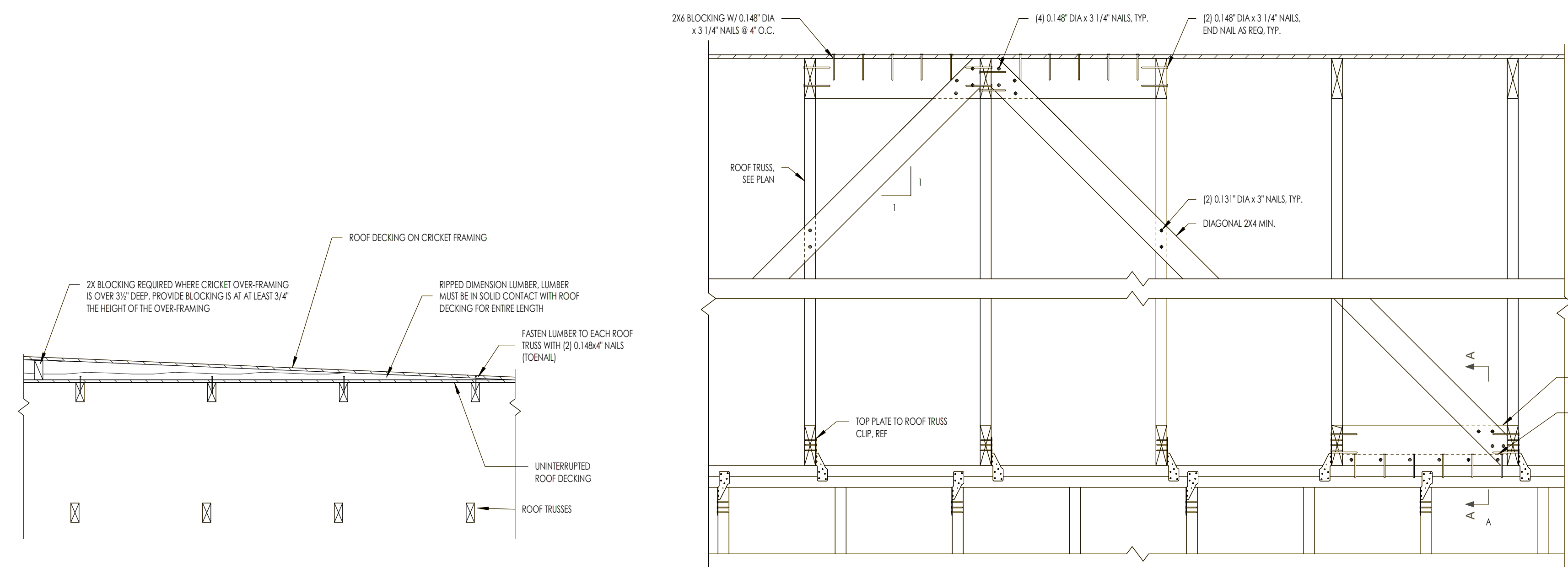
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Date	Description
04/02/2022	Release of Structural Permit
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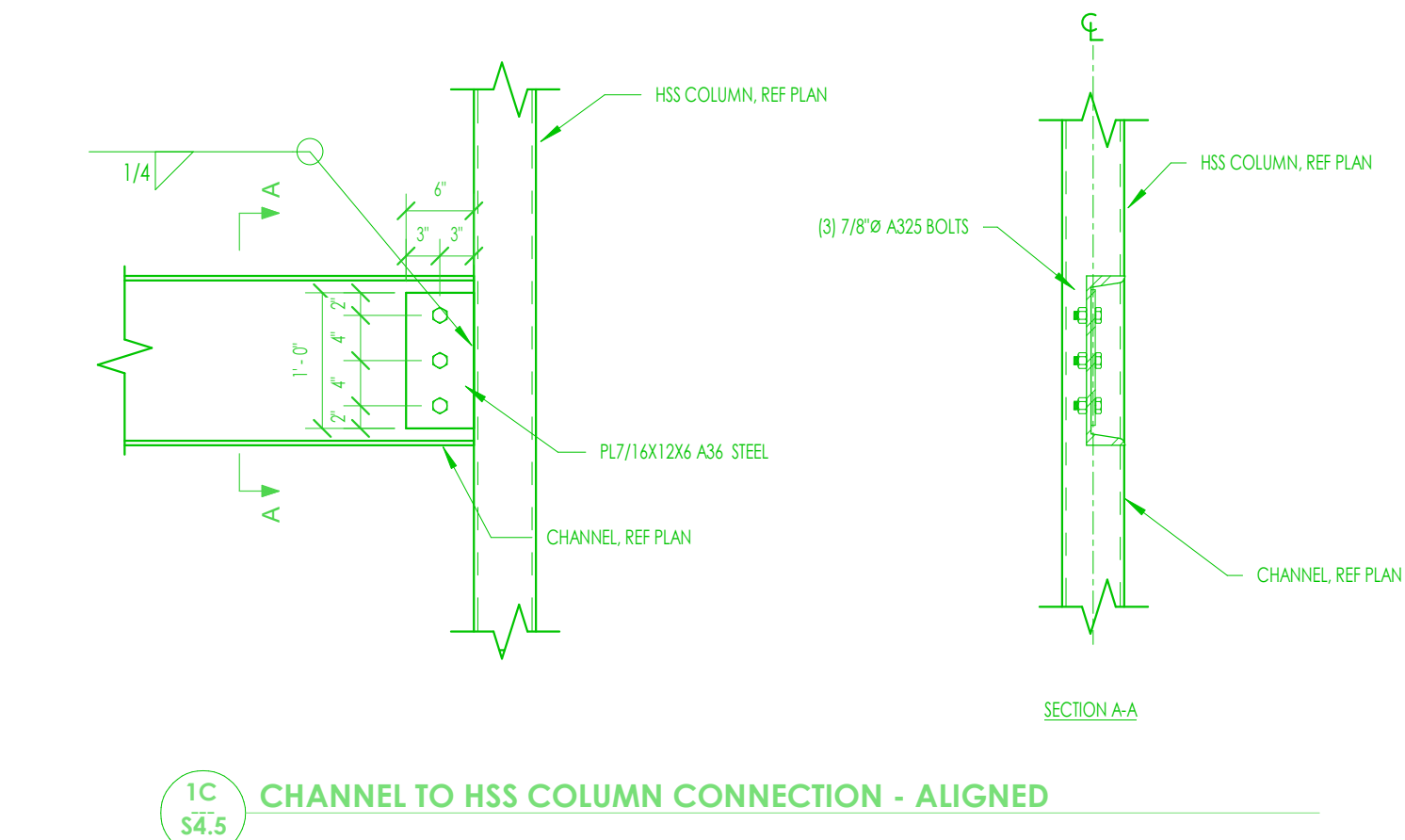
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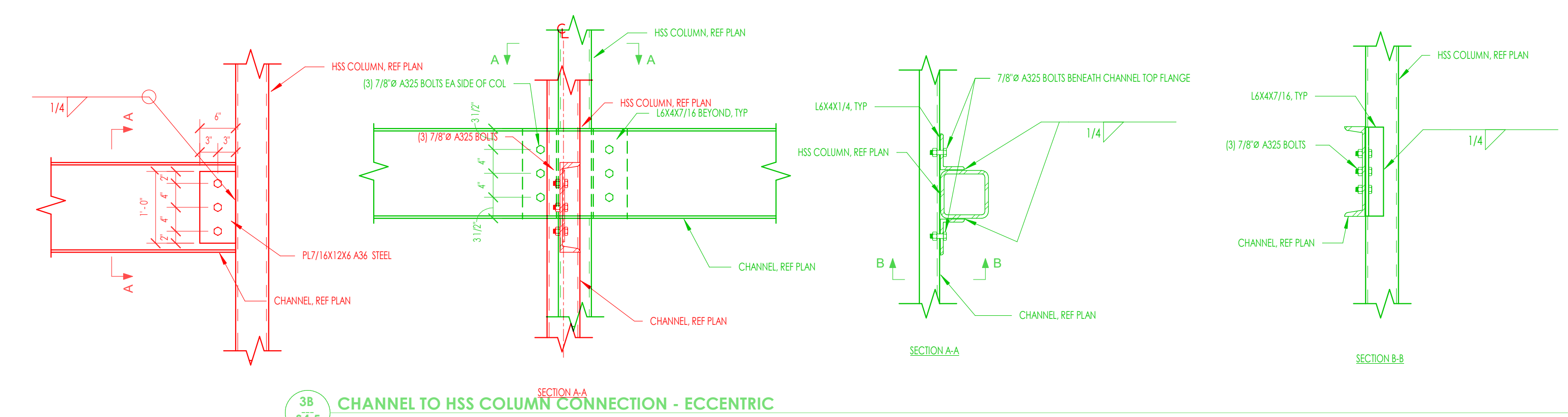
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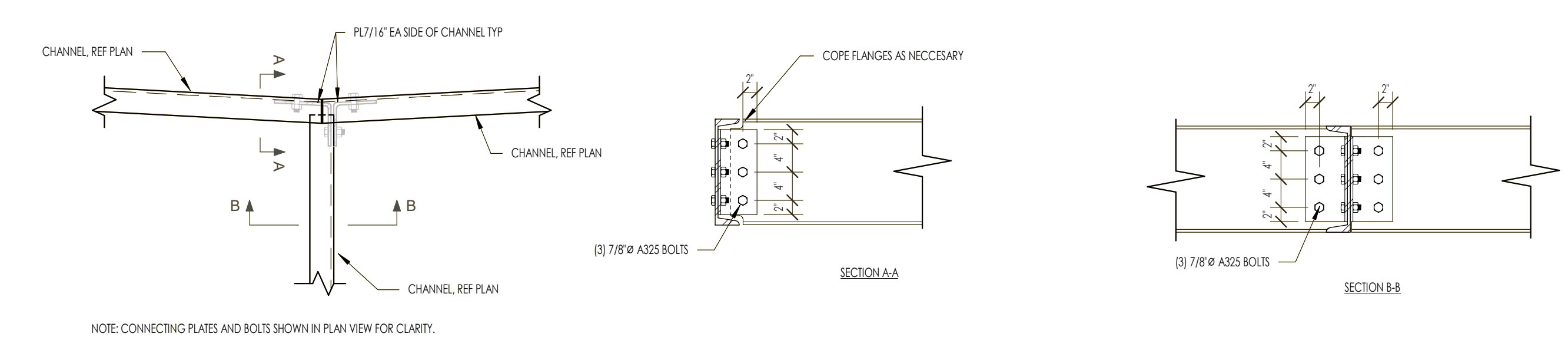
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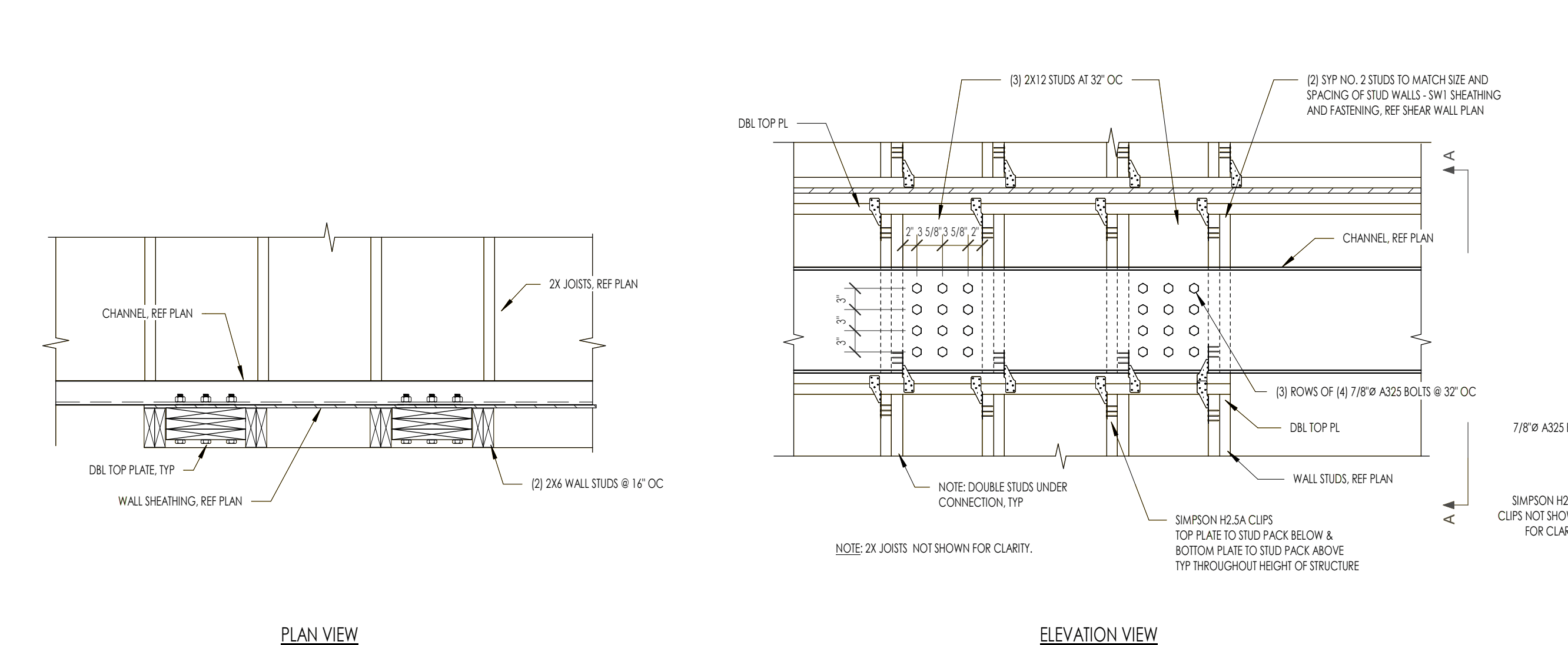
1C S4.5 CHANNEL TO HSS COLUMN CONNECTION - ALIGNED



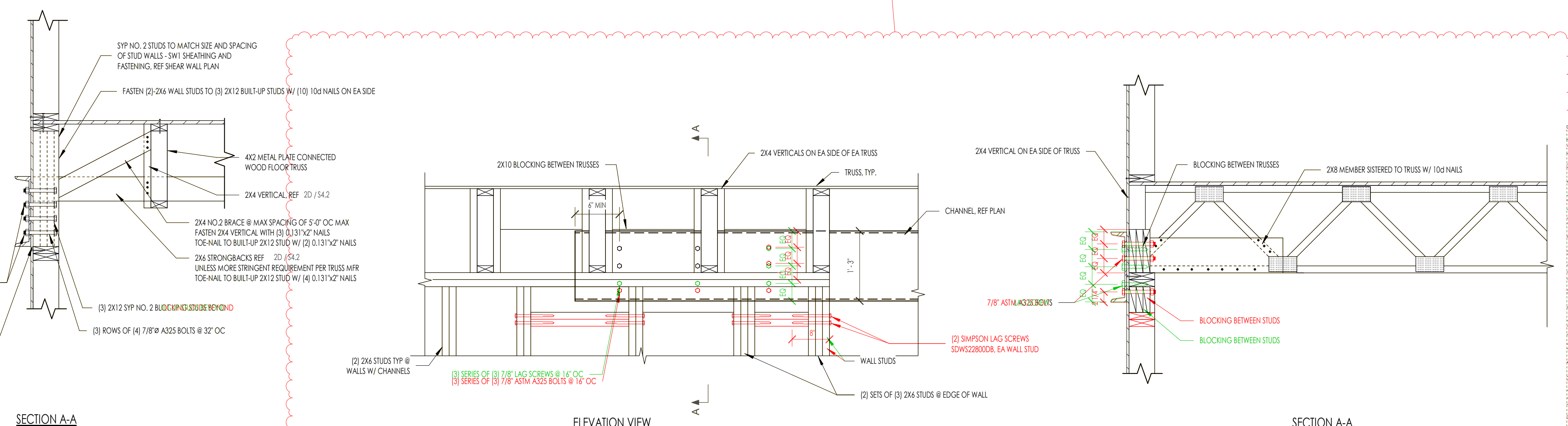
1C S4.5 CHANNEL TO HSS COLUMN CONNECTION - ECCENTRIC



6B S4.5 TYPICAL CHANNEL CONNECTION AT BALCONY1



6A S4.5 TYPICAL CHANNEL TO WALL STUD BOLTED CONNECTIONX



3A S4.5 TYPICAL CHANNEL TO WALL STUD CONNECTION

TYPICAL STEEL DETAILS

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