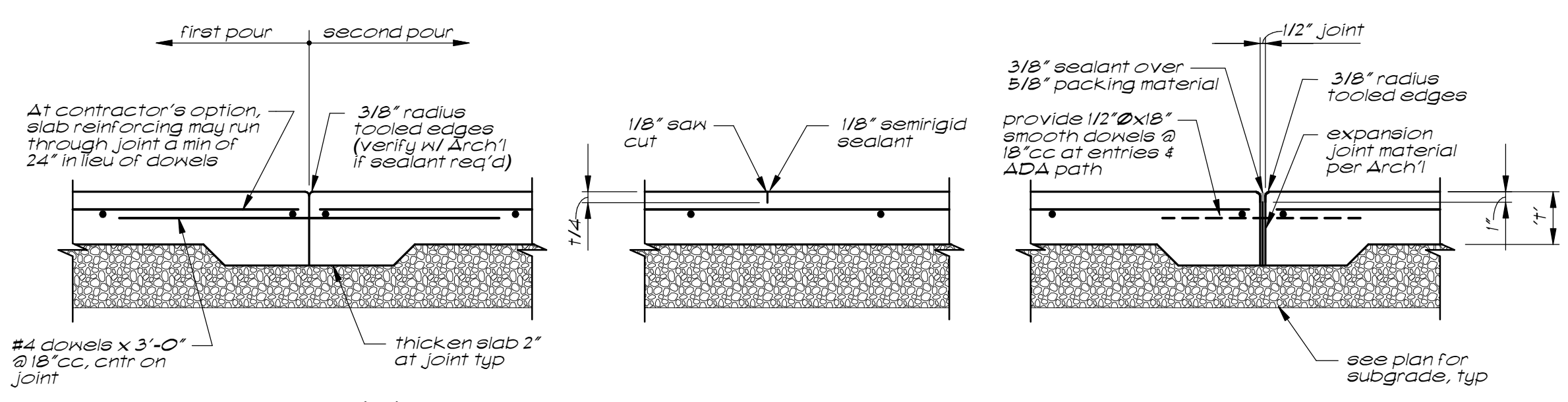




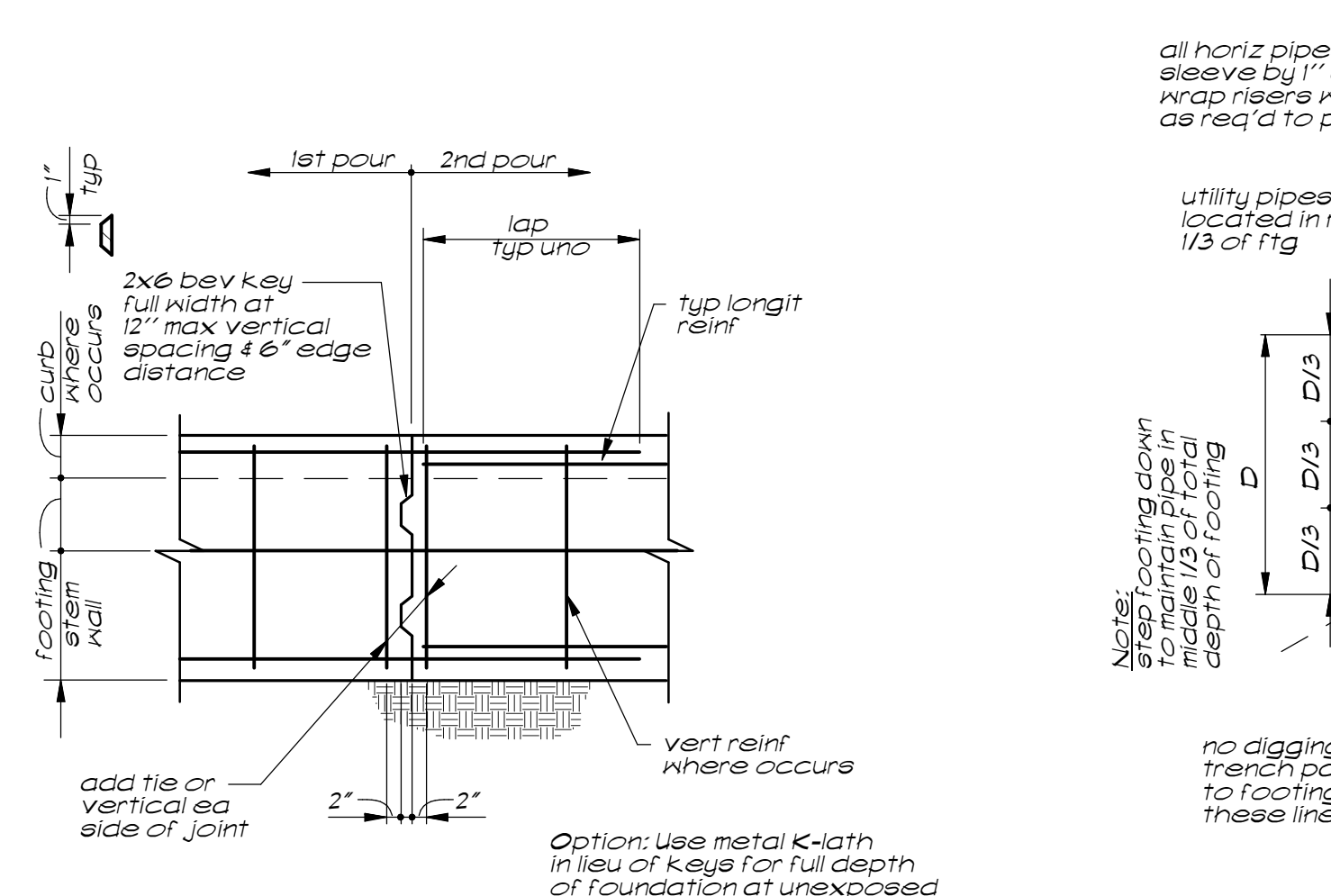
# TYPICAL DETAILS

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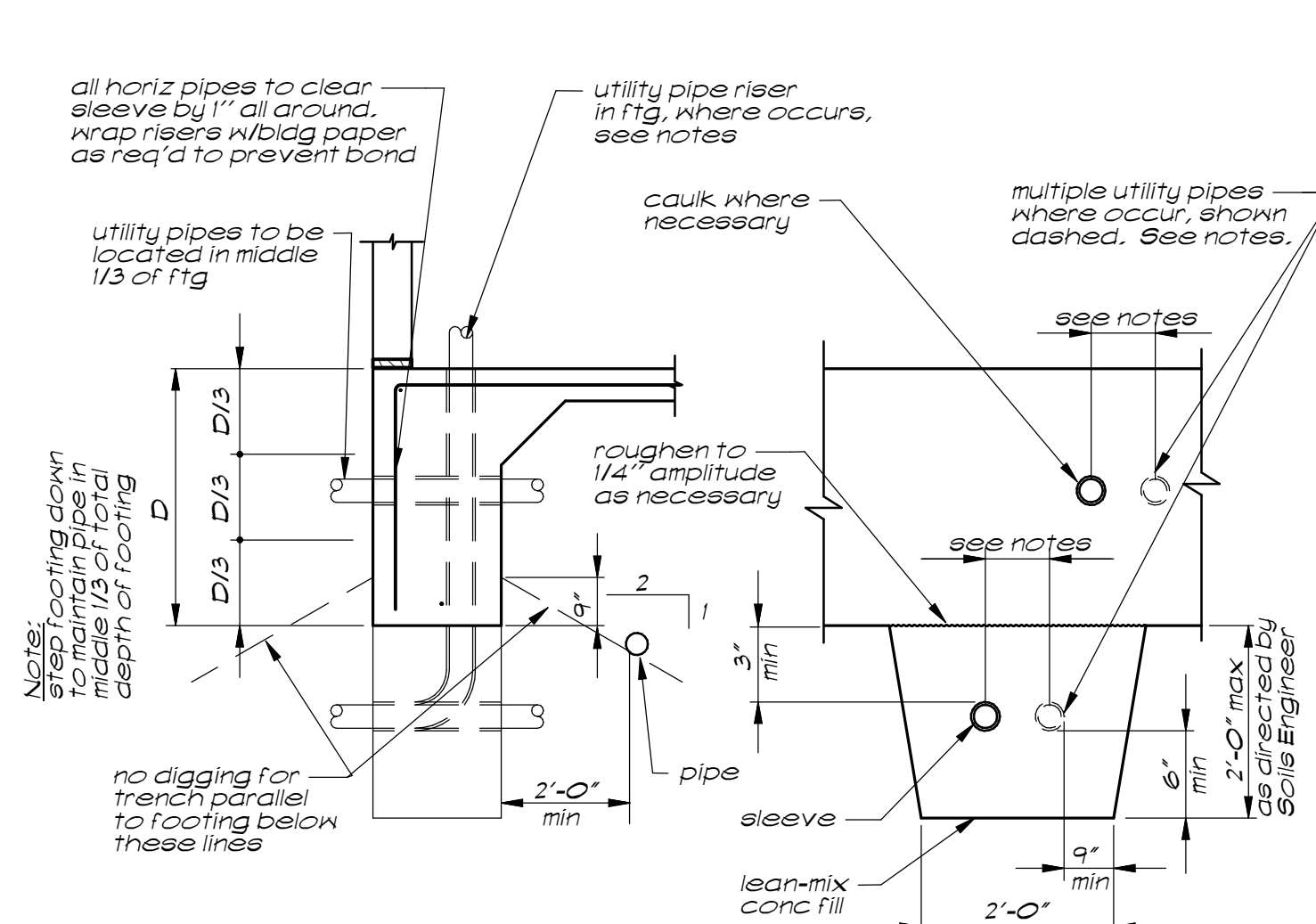
- Notes:**
- Construction joints and control joints shall divide slab into areas not exceeding 225 sq ft without reentrant corners and with length to width ratios not exceeding 1/2 to 1. Joint spacing shall not exceed 9 feet in either direction.
  - Contractor shall submit layout plan showing proposed control and construction joint locations to Architect & Structural Engineer for review & approval.
  - Beemrigt sealant to be used at Slab Control Joints or equal.

**Slab On Grade Joints** (S1.2)

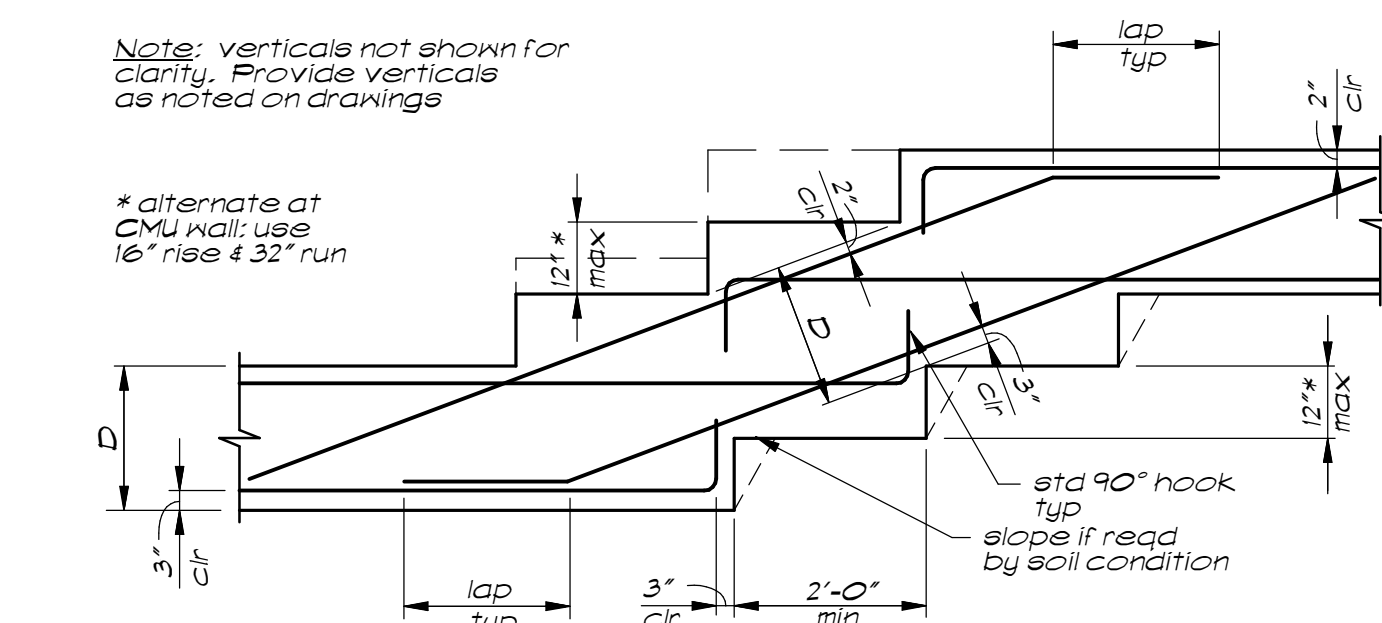


**Typical Foundation Construction Joint** (S1.2)

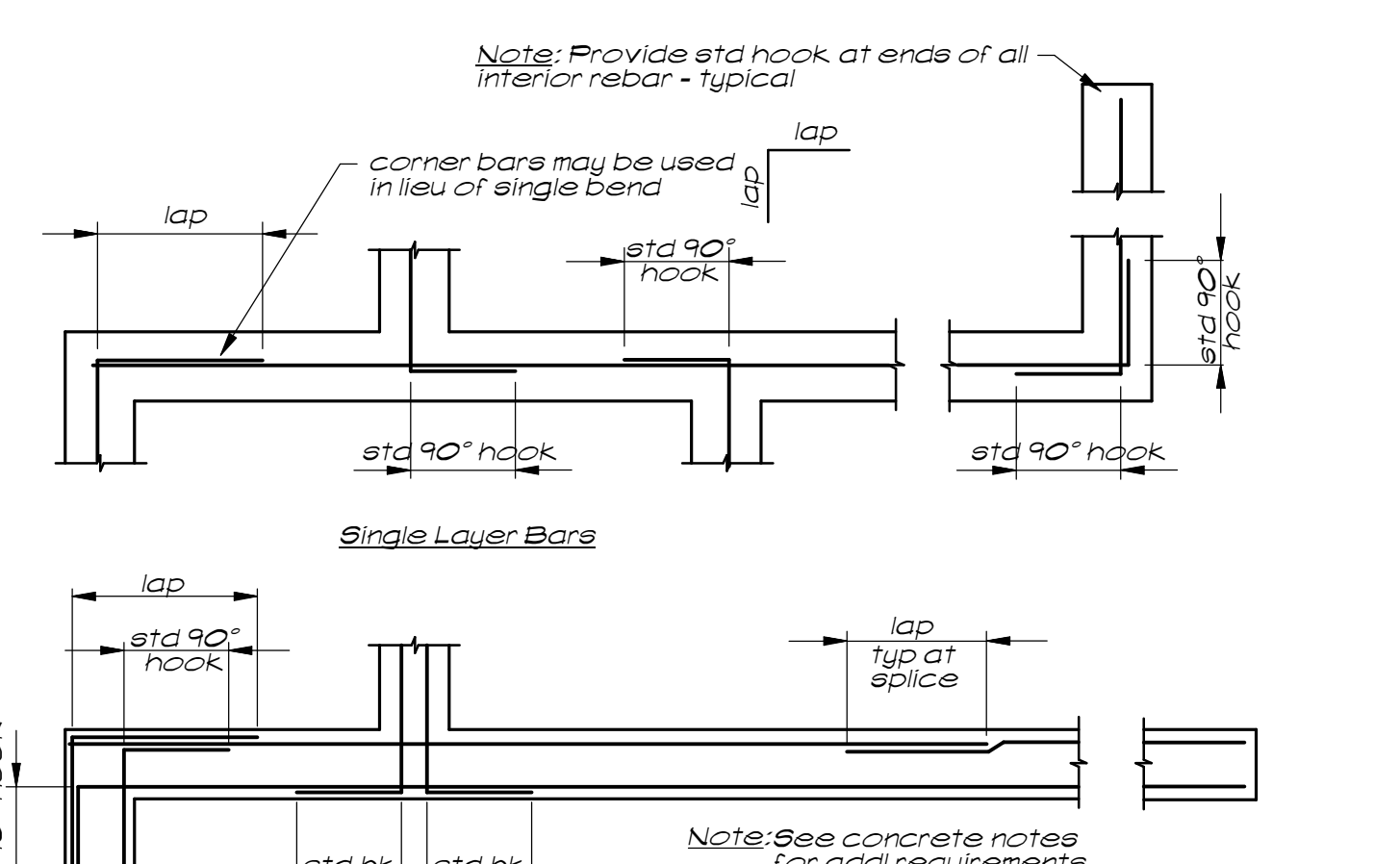
**Concrete Footings at Utility Pipes** (S1.2)



- Notes:**
- Reinforcing shall not be interrupted, cut or displaced by placement of utility pipes.
  - Lean mix concrete fill to be placed before the cast (non-pouring concrete optional) inside areas with up to 1/2" and full width of pipe trench.
  - Step up pipe occurs in lower third of original footing depth.
  - No pipes shall be placed below spread ribs or within 2" of bearing zone around footing.
  - Step up in place prior to casting concrete, wrap pipe w/ 1" Styrofoam insulation in lieu of sleeves.
  - Utility pipes are not allowed parallel in footing.
  - Multiple utility pipes (two or more) may be installed as shown in section, provided they are spaced a minimum of 4 pipe/footout diameters on center with a minimum of 3" of concrete between. Pipe diameter indicated is the rough hole size thru footing.
  - Utility pipes may occur in continuous wall footings provided they are no larger than footing width and occur with the middle 1/3 of the footing width. Multiple pipes may occur if spaced as noted @ 8 ft.
  - Utility pipes perpendicular to footings and more than 2" below bottom of footings do not require lean mix concrete encasement subject to acceptance of the Sole Engineer.
  - Conditions not conforming to the parameters noted above shall be reviewed on a case-by-case basis.

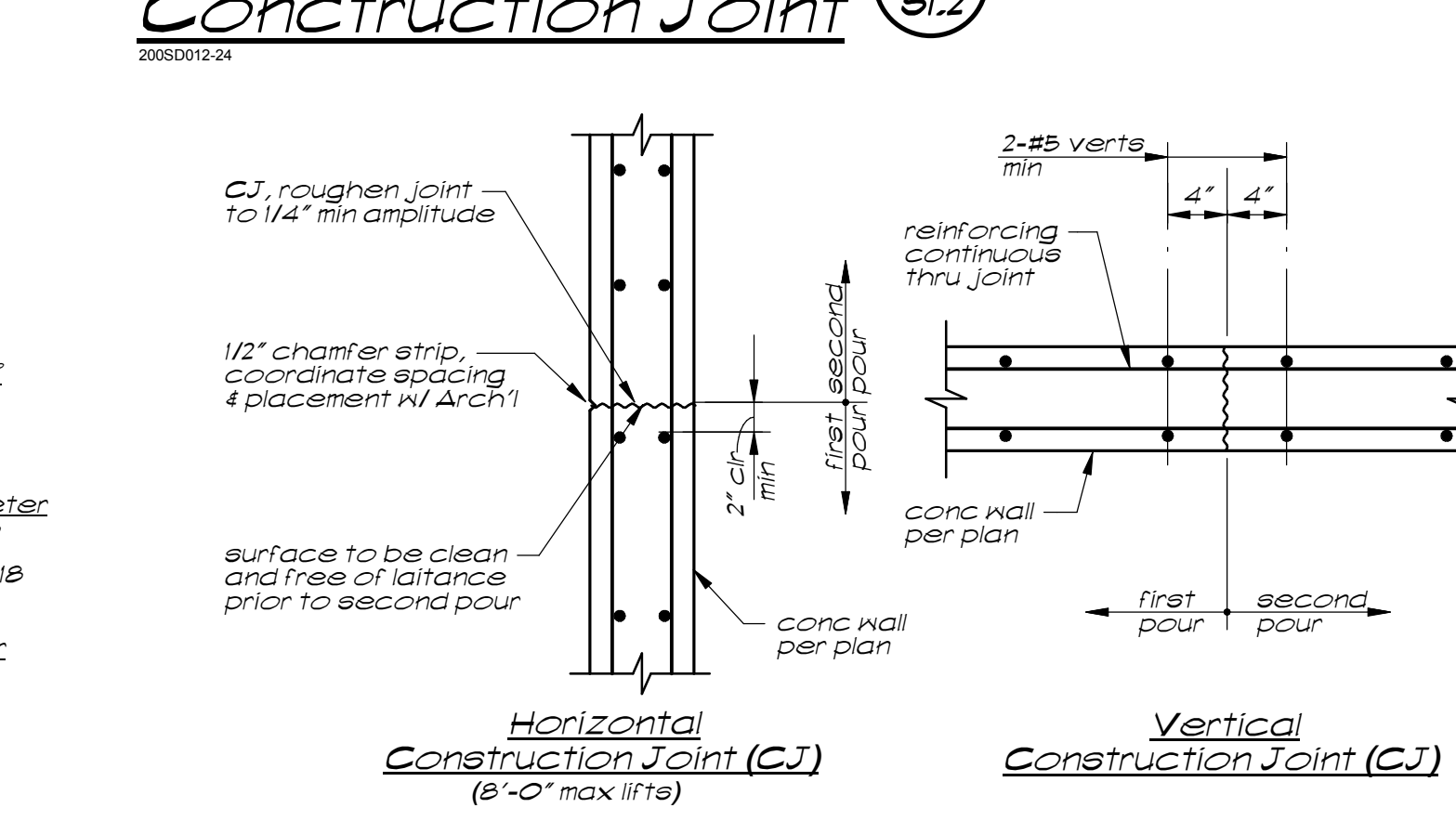


**Typical Footing Step** (S1.2)

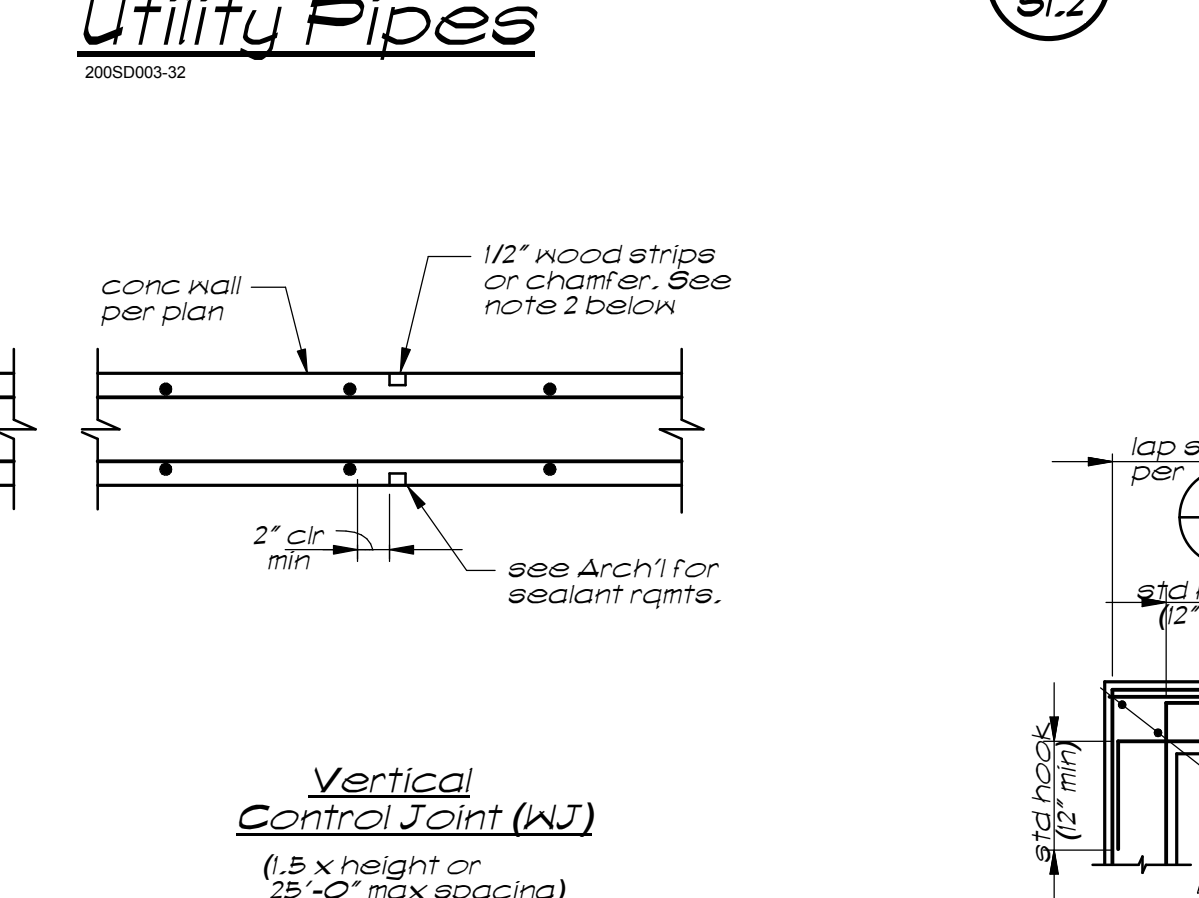


**Corner Reinforcing at Concrete Ftgs** (S1.2)

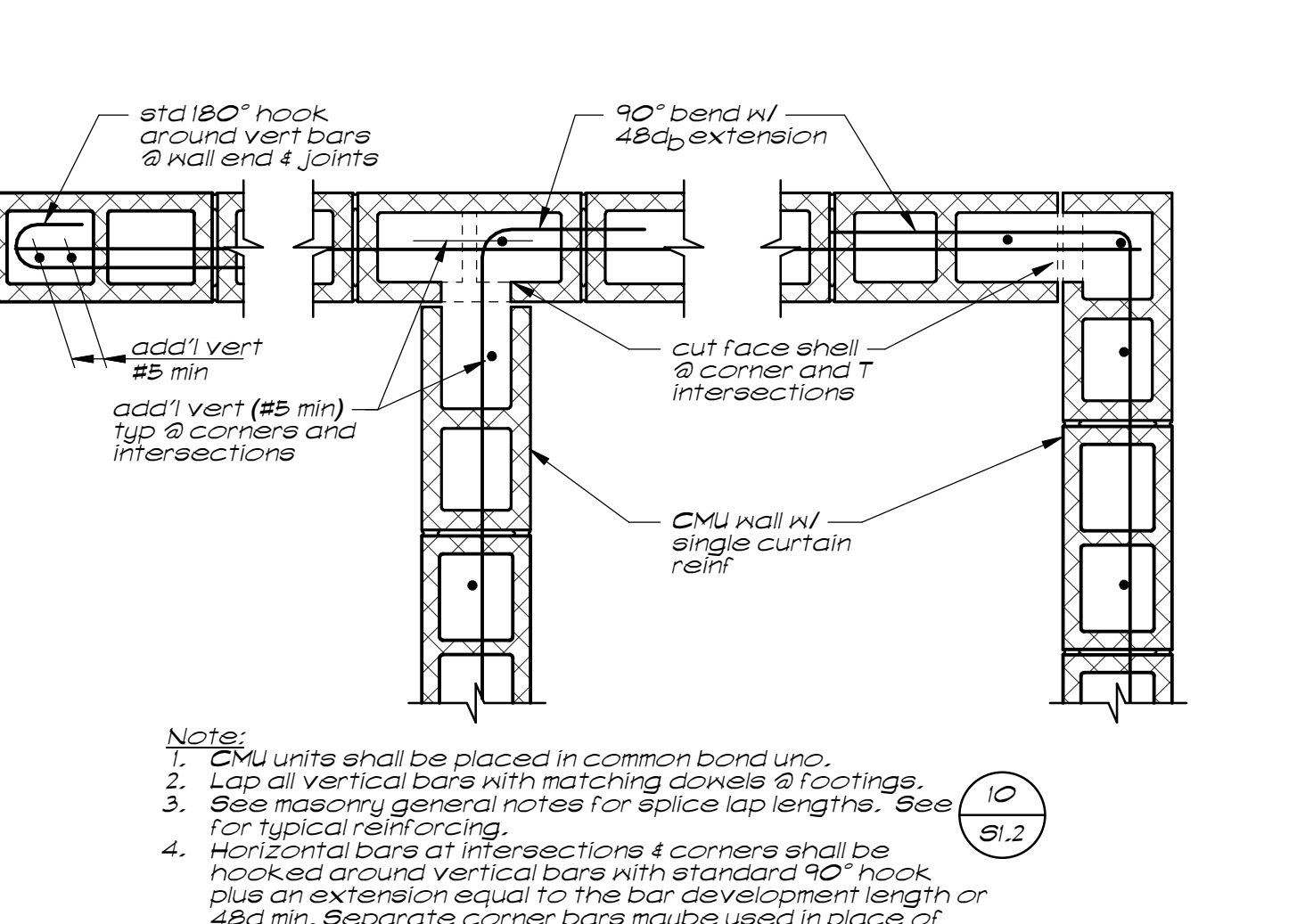
**Standard Rebar Hooks and Bends** (S1.2)



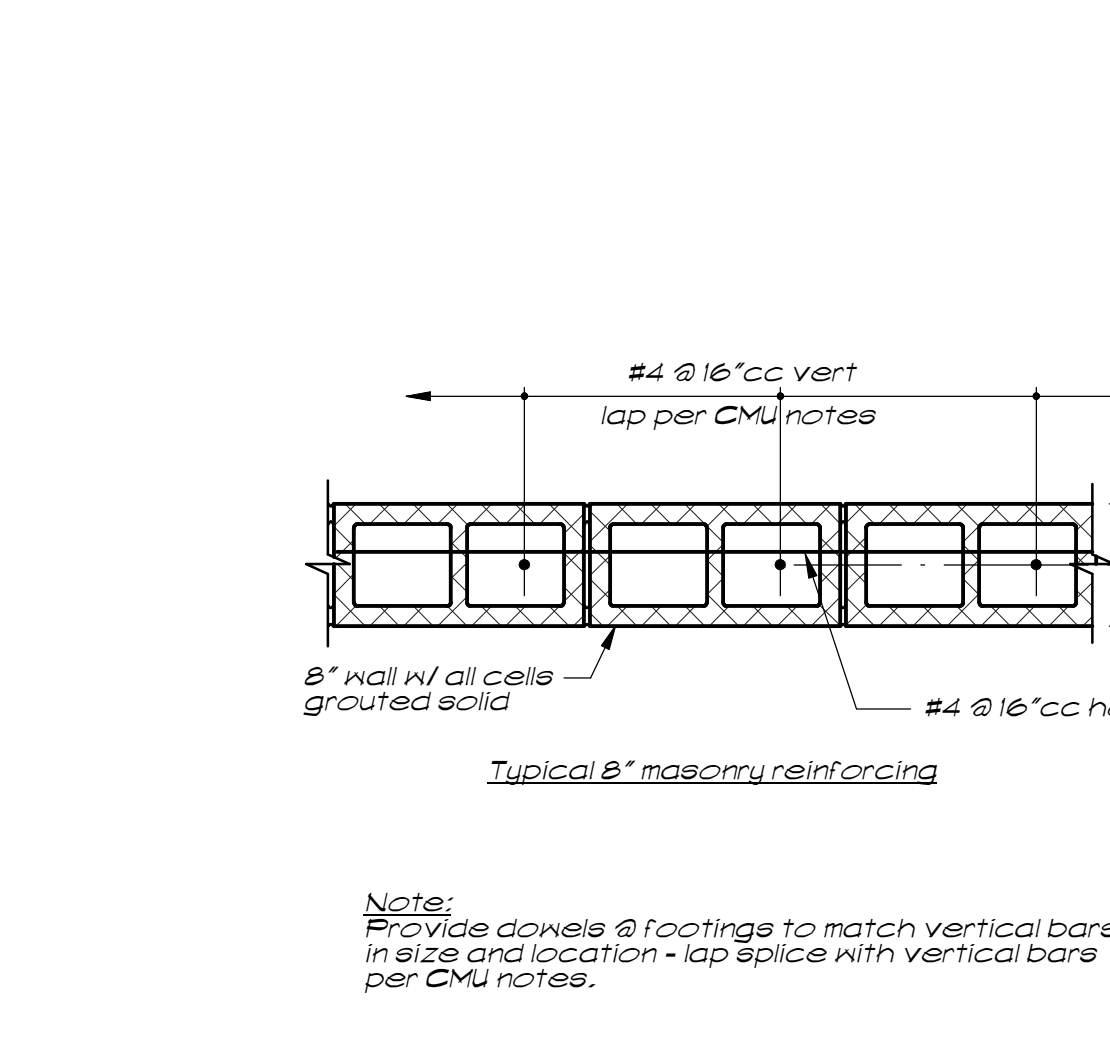
**Concrete Wall Joints** (S1.2)



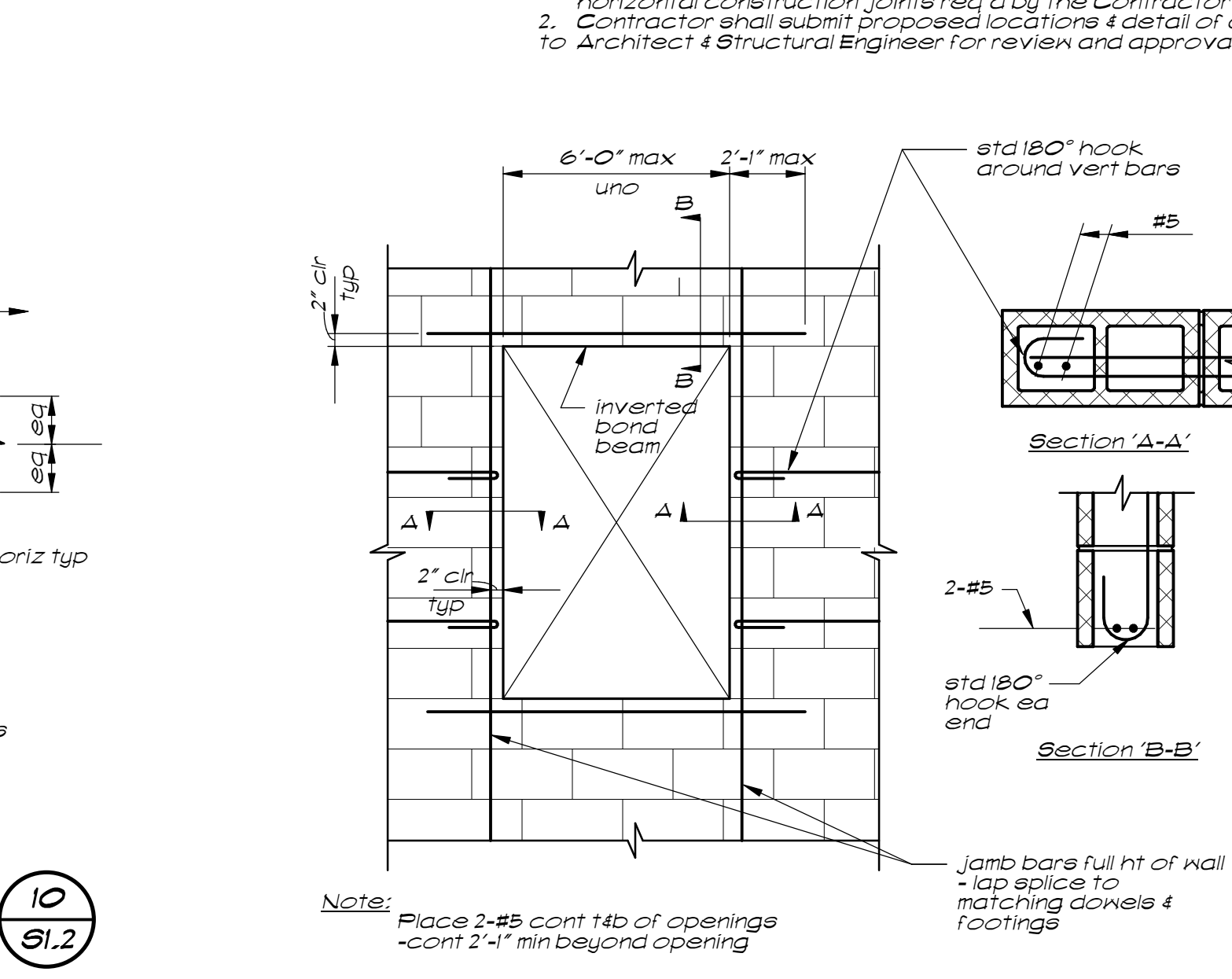
**Concrete Wall Corner Reinforcing** (S1.2)



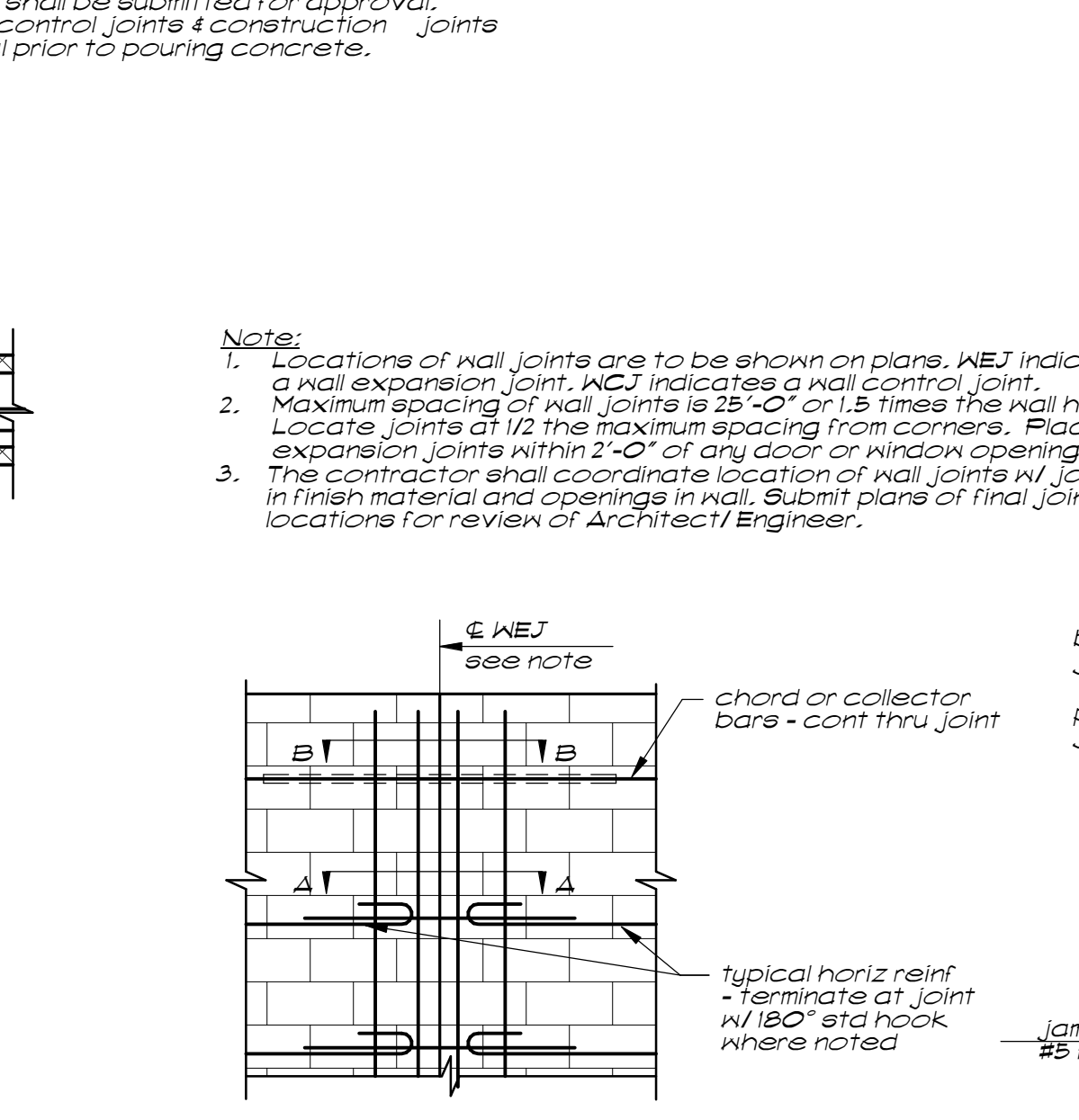
**Typical Block Wall Reinforcing at Corners and Intersections** (S1.2)



**Typical Block Wall Reinforcing** (S1.2)



**Opening Reinforcing at CMU Wall Opening** (S1.2)



**Typical Block Wall Expansion Joint (WEJ)** (S1.2)

**Deck Welding Schedule** (S1.2)

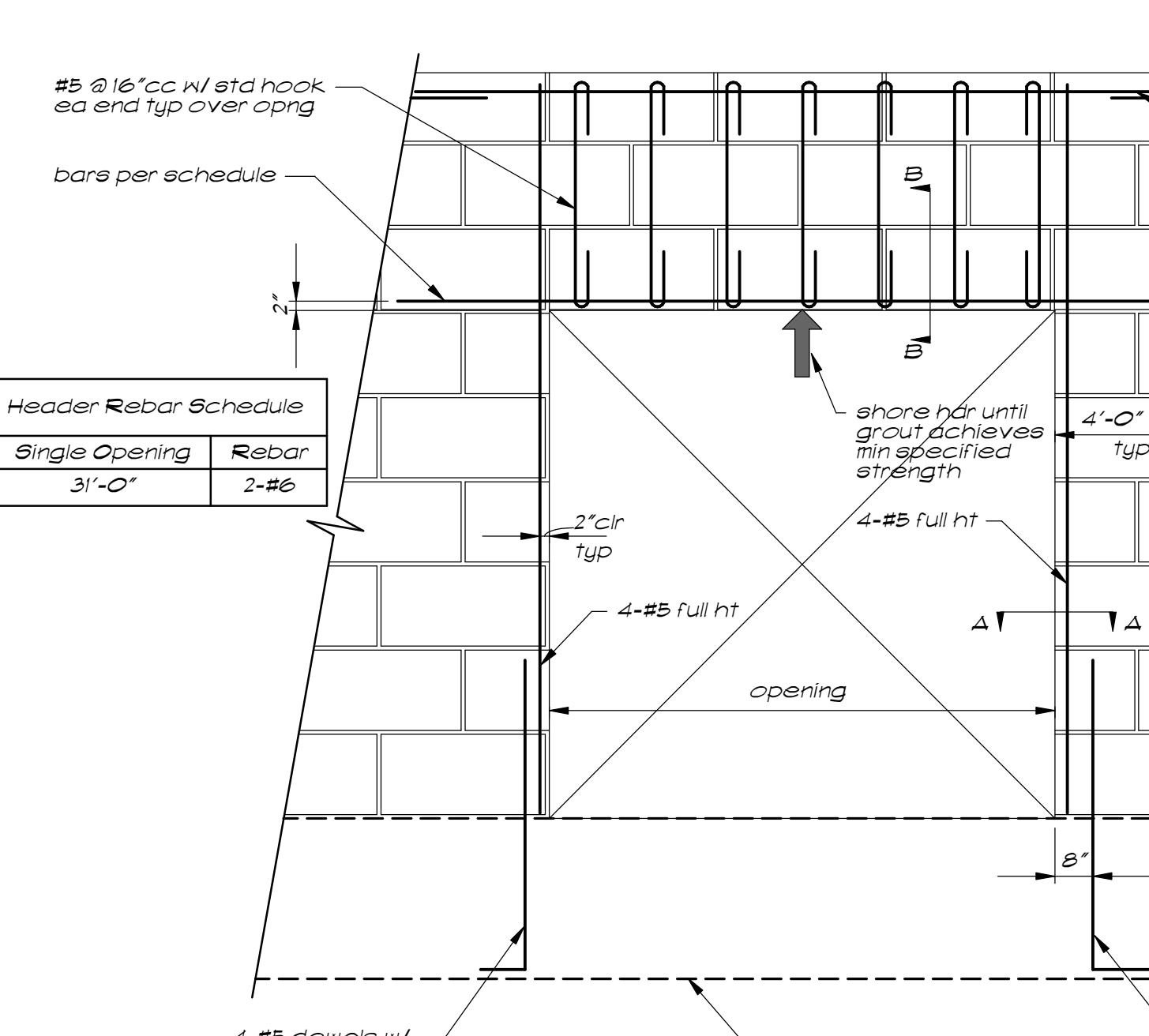
Deck Type	Depth & Gauge	Perpendicular Supports	Parallel Supports	Side Laps	Diaphragm Shear Capacity
3x3-36 Floor Deck	3"x 20" 90	4" PN per sheet	PN @ 12" OC	BP @ 36" OC	1780 #/ft

- Notes:**
- Provide 3/4" diameter (1/2" effective diameter) puddle weld; 1/8"x1/8" min top edge weld; BBE button punch.
  - Metal deck shall be Venco or approved equal, of type and gauge shown on plans and welded as shown above.
  - At composite floor decks, 3/4" shear studs may substitute for 3/4" puddle welds.
  - See (S1.2) for typical weld patterns.
  - See (S1.2) for metal deck welding at structural supports.
  - All metal deck shall have 10 gage minimum.
  - Provide shearing as required at all decks per manufacturer's recommendations.

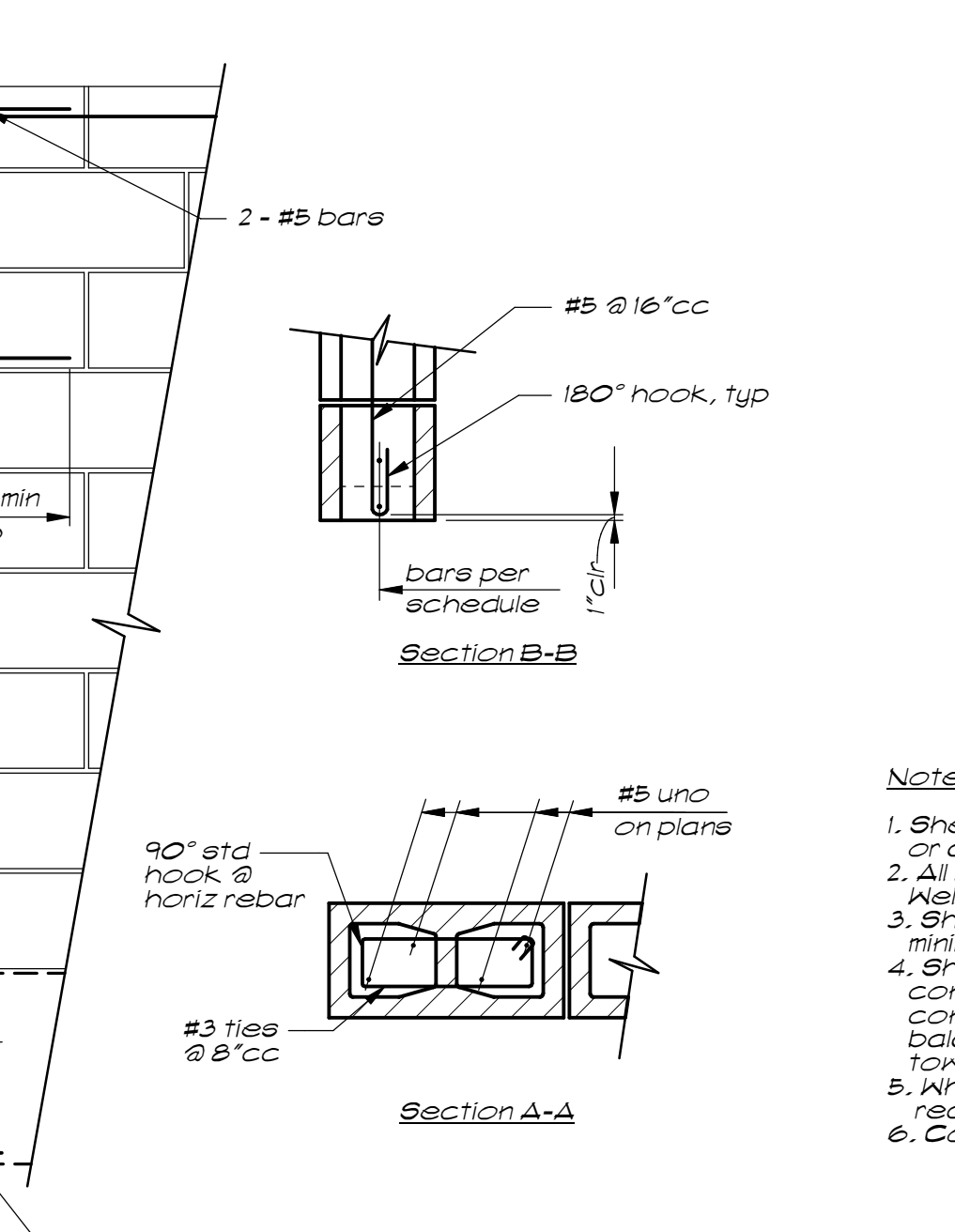
**Connection Schedule** (S1.2)

Beam Size	No. 4 Dia. A325-N Bolts	Sp. E 1"	Max. load capacity	
EB 4x10	2 - 7/8"	1/4"	3/8"	26.1K
EB 4x12	2 - 7/8"	1/4"	3/8"	26.1K
WB 4x14	3 - 7/8"	1/4"	3/8"	39.2K
WB 4 - 7/8"	3/8"	1/4"	3/8"	78.3K
WB 5 - 7/8"	3/8"	1/4"	3/8"	97.9K
WB 6 - 7/8"	3/8"	1/4"	3/8"	117.8K
WB 7 - 7/8"	3/8"	1/4"	3/8"	137.6K
WB 8 - 7/8"	3/8"	1/4"	3/8"	157.4K
WB 9 - 7/8"	3/8"	1/4"	3/8"	177.2K
WB 10 - 7/8"	3/8"	1/4"	3/8"	197.0K

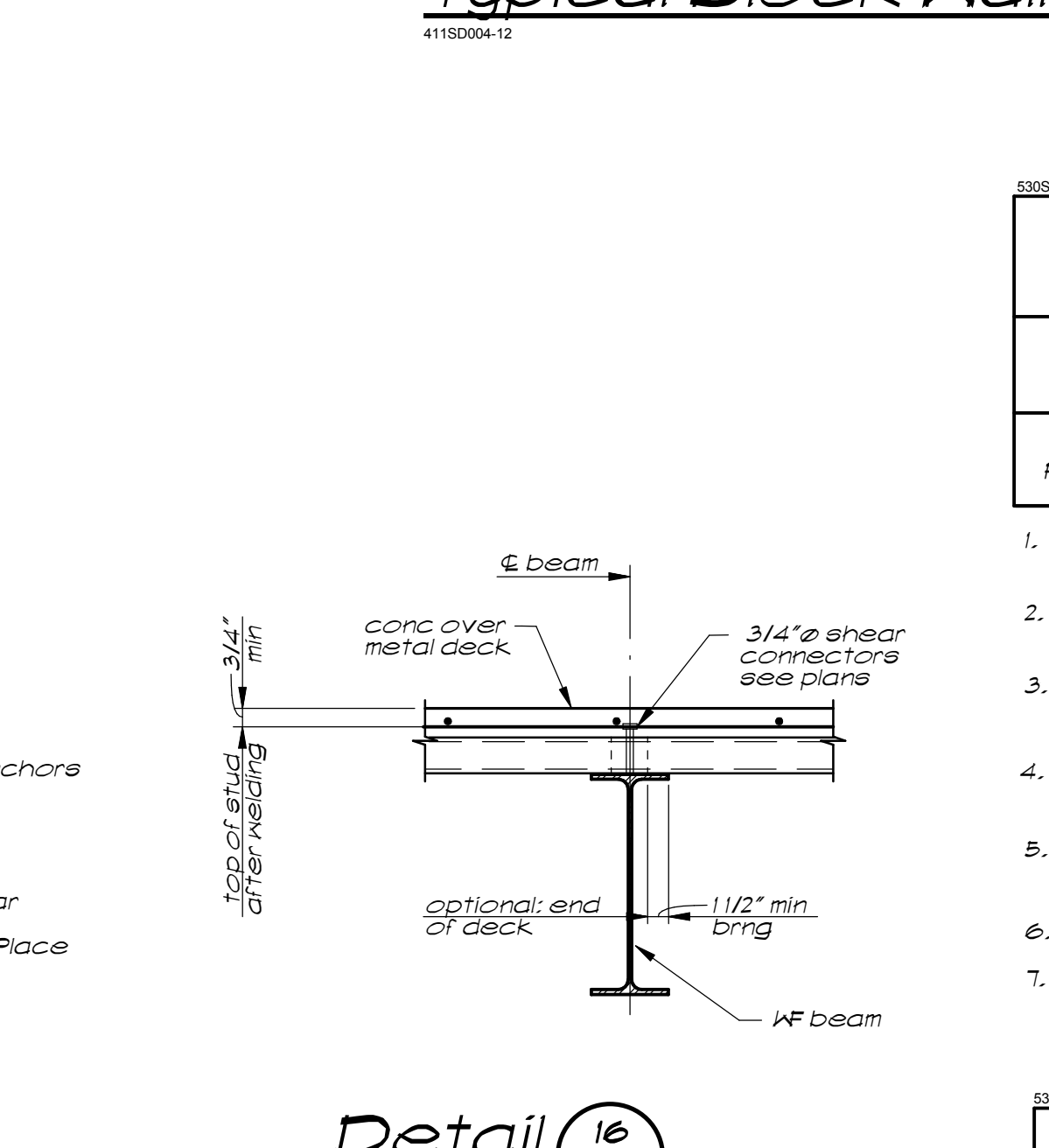
- Notes:**
- This schedule applies to non-vented connections, typical.
  - LRFD load capacity per AISC Manual 14th ed., Table 10-10a.



**Wall Opening Reinforcing** (S1.2)



**Typical WF Beam** (S1.2)



**Detail** (S1.2)

**Metal Deck Weld Patterns** (S1.2)

Deck Type	Profile	No. 3/4" PN per sheet
Type 3x36	[Profile]	4

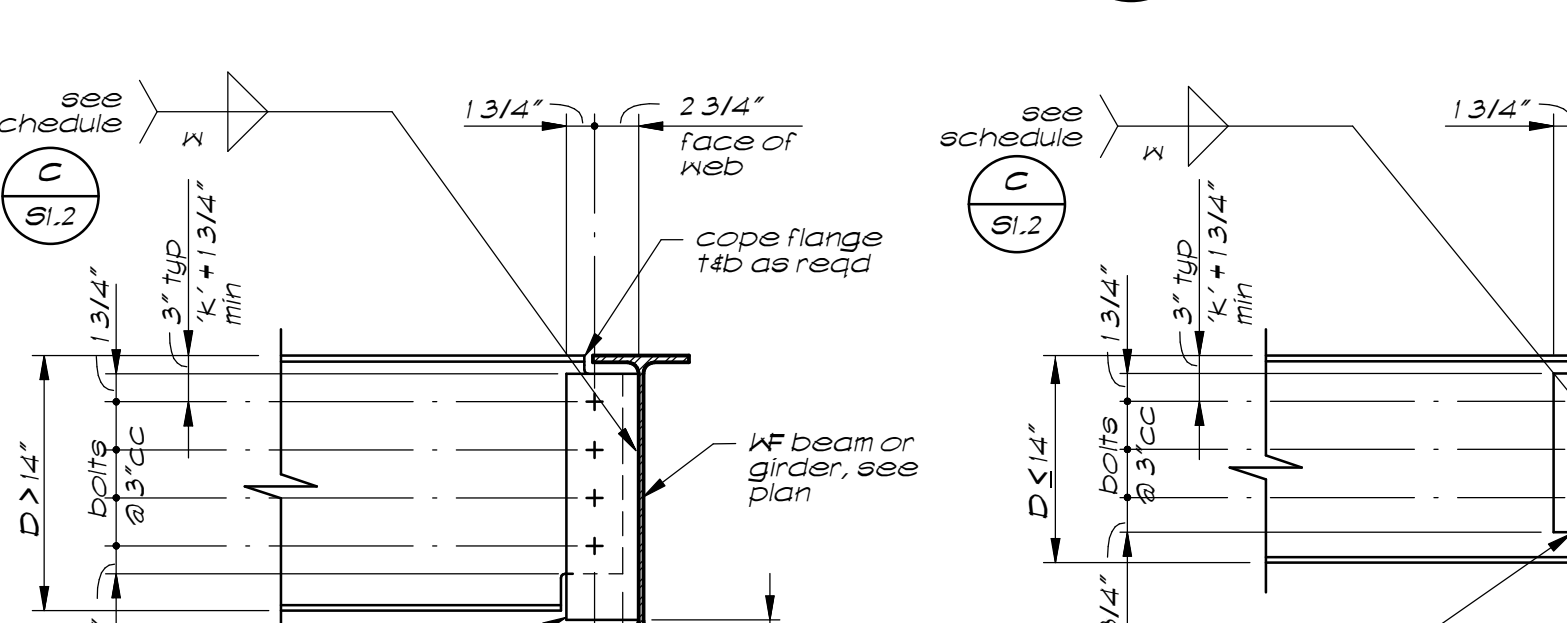
**Note:** Contractor may use horizontal short shiftable holes for these connections only. The short shiftable holes shall be in the shear line with horizontal holes provided over the slots. Type 'N' bearing connections shall be used.



**Detail** (S1.2)



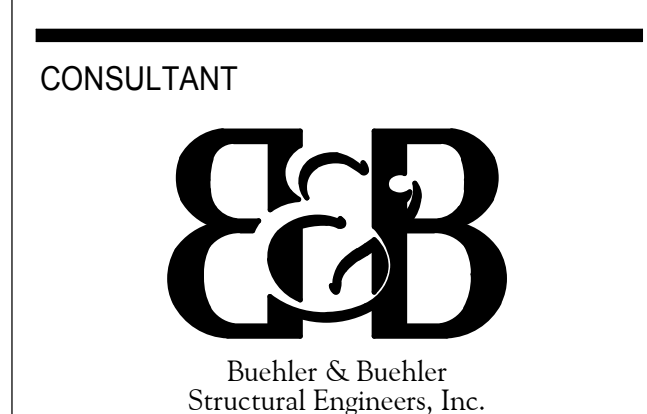
**Detail** (S1.2)



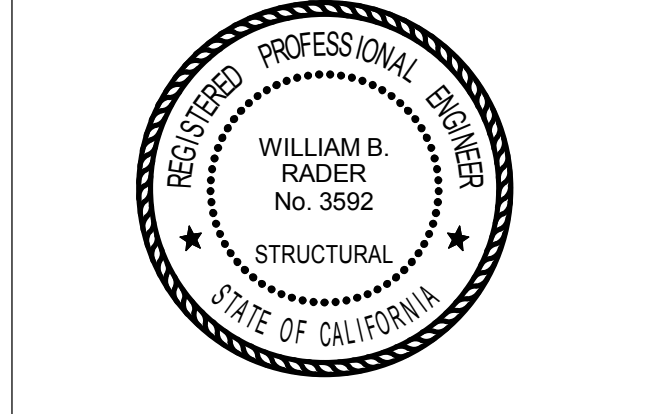
**Detail** (S1.2)



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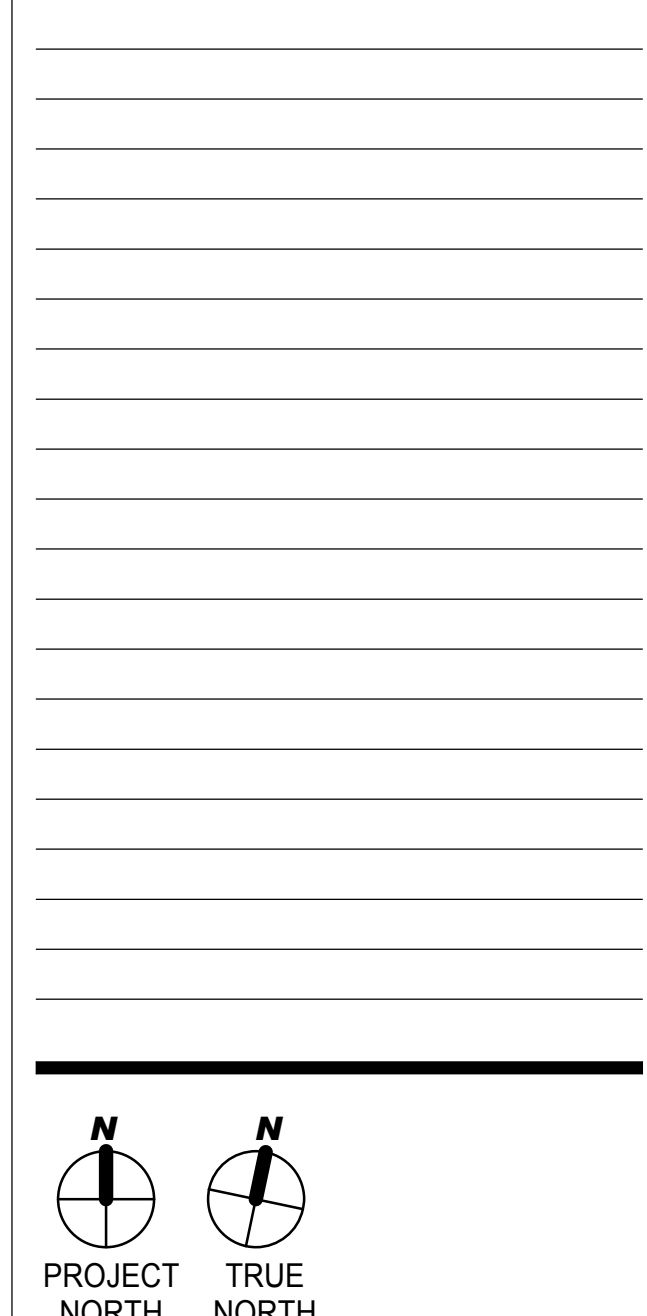
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PROJECT NAME

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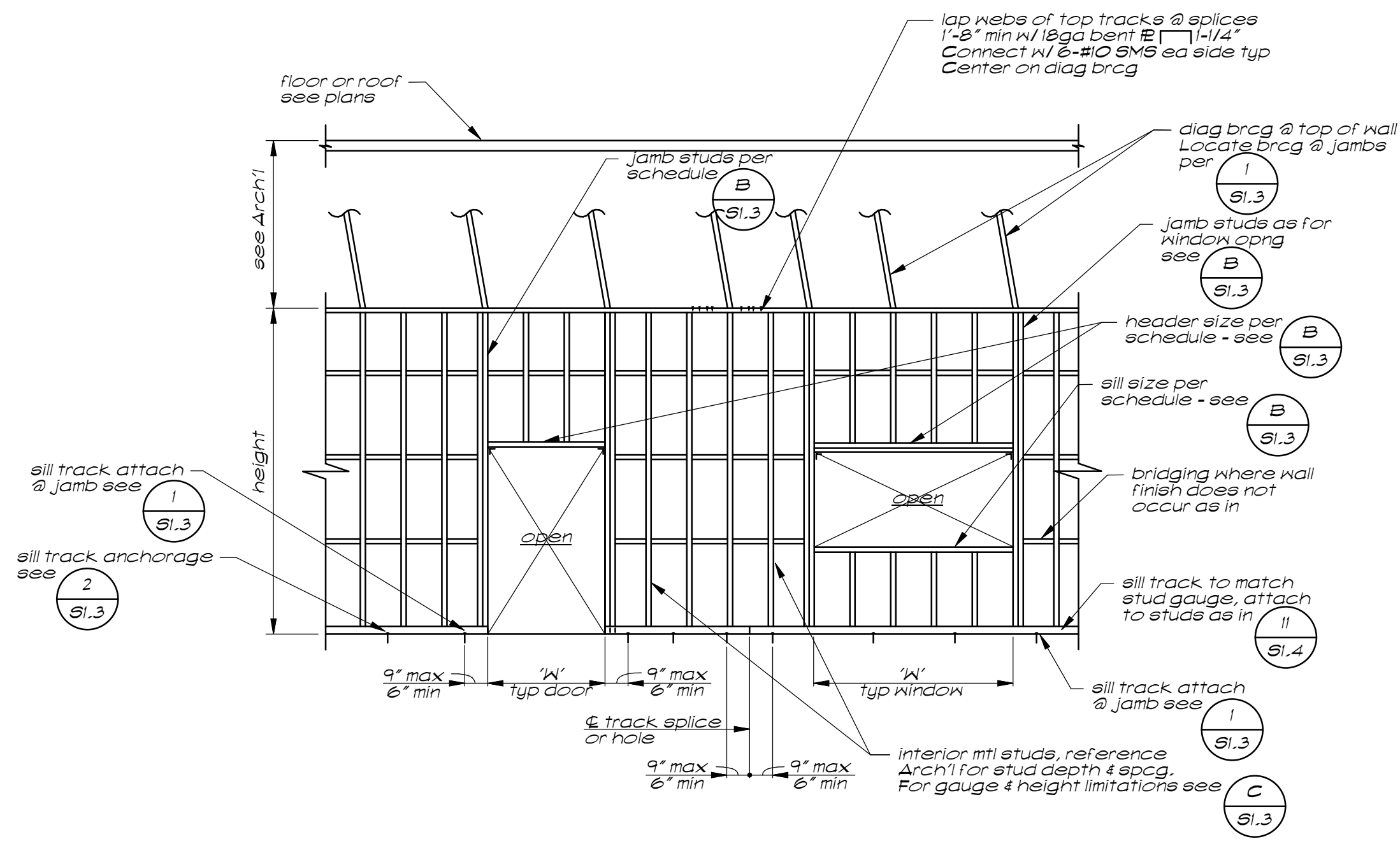


DRAWN BY: \_\_\_\_\_ Author  
PROJECT NUMBER: 2015-001400  
SHEET ISSUE DATE: 06/15/15  
SHEET TITLE: Typical Details

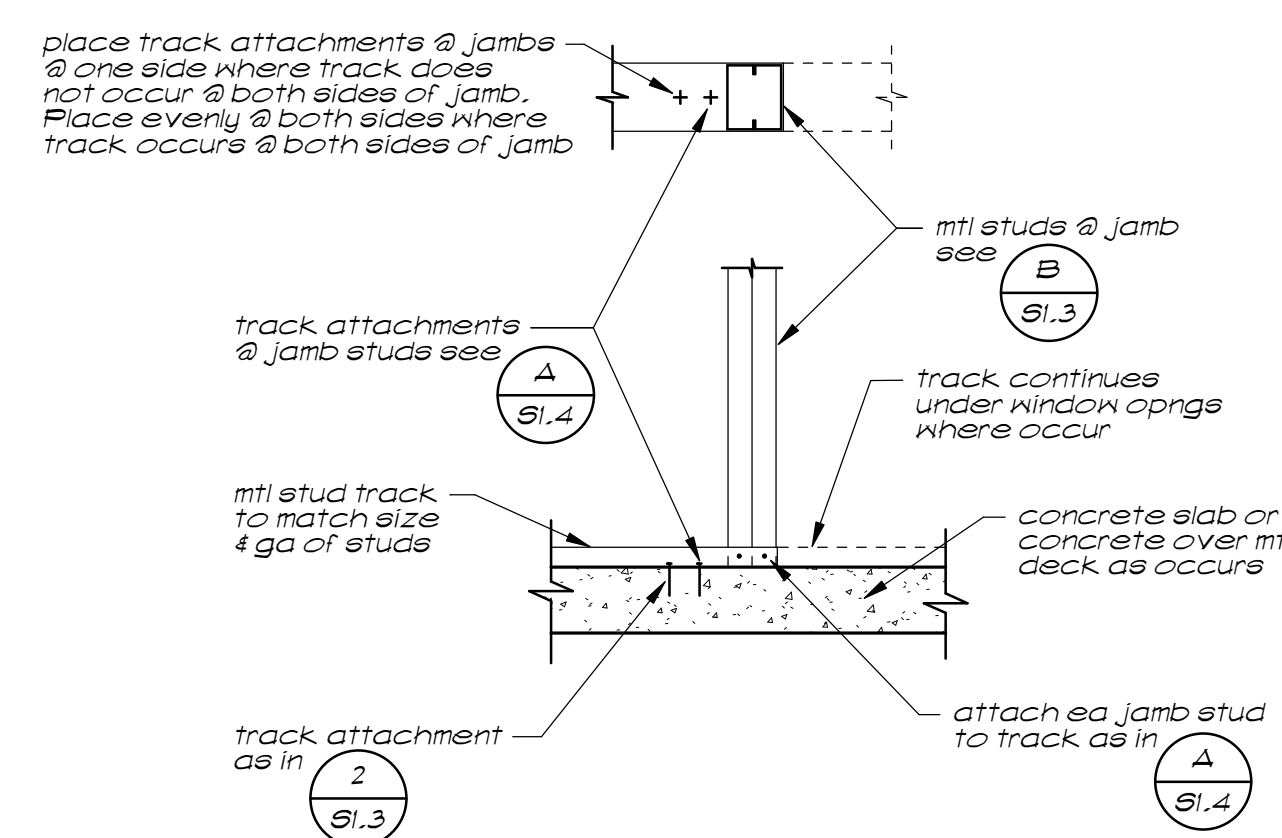
SHEET NUMBER **S1.2**

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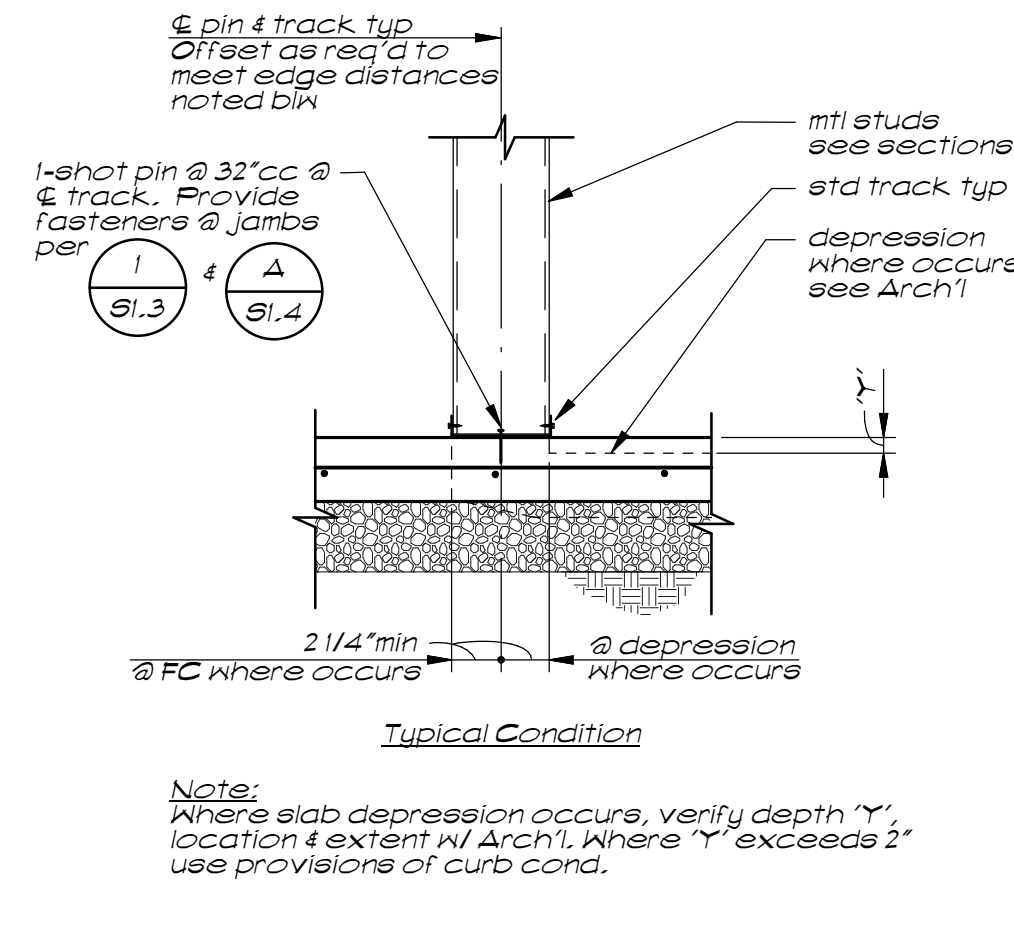
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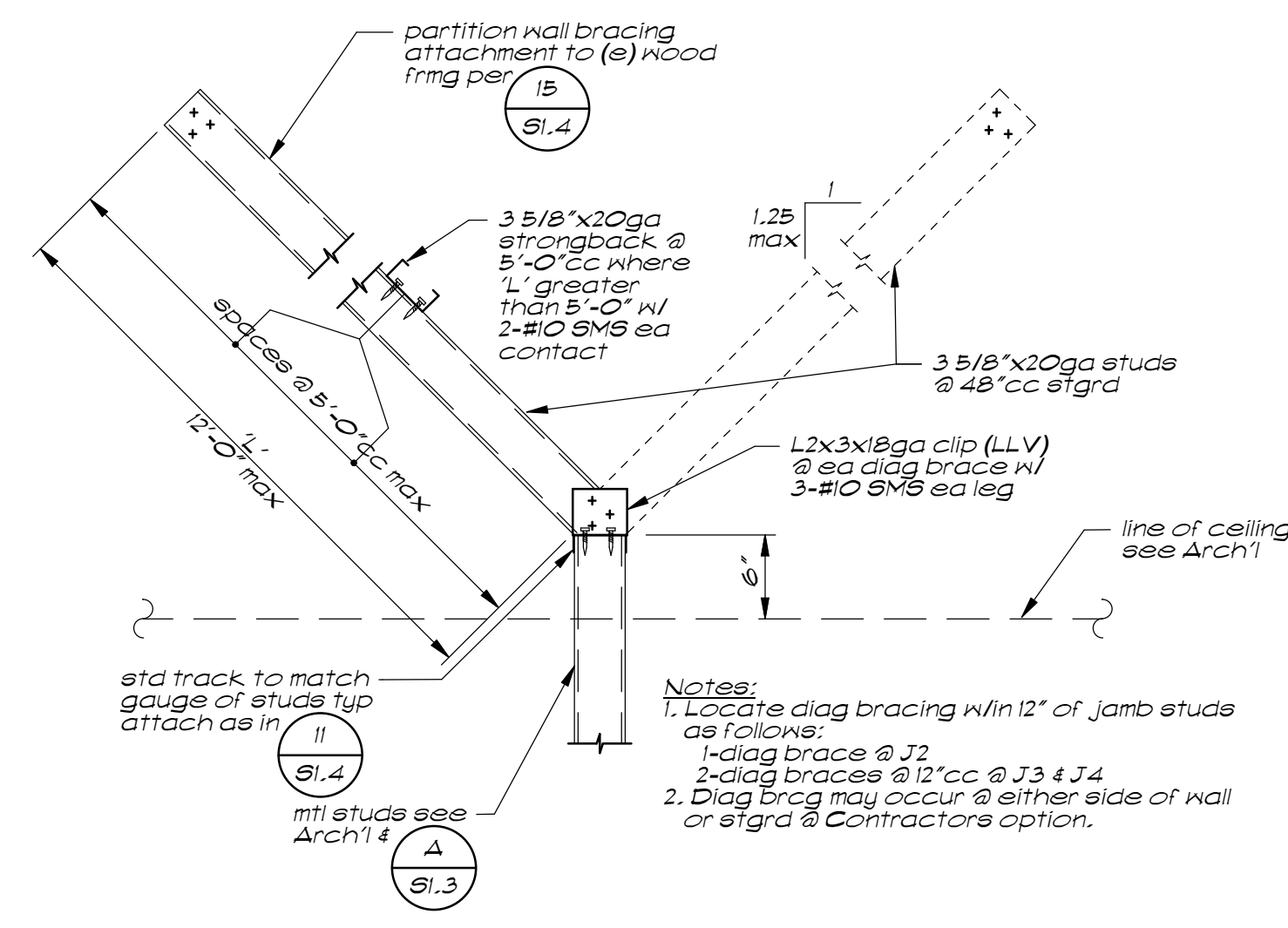
**Partial Height Interior Metal Stud Wall Elevation** (A) (S1.3)



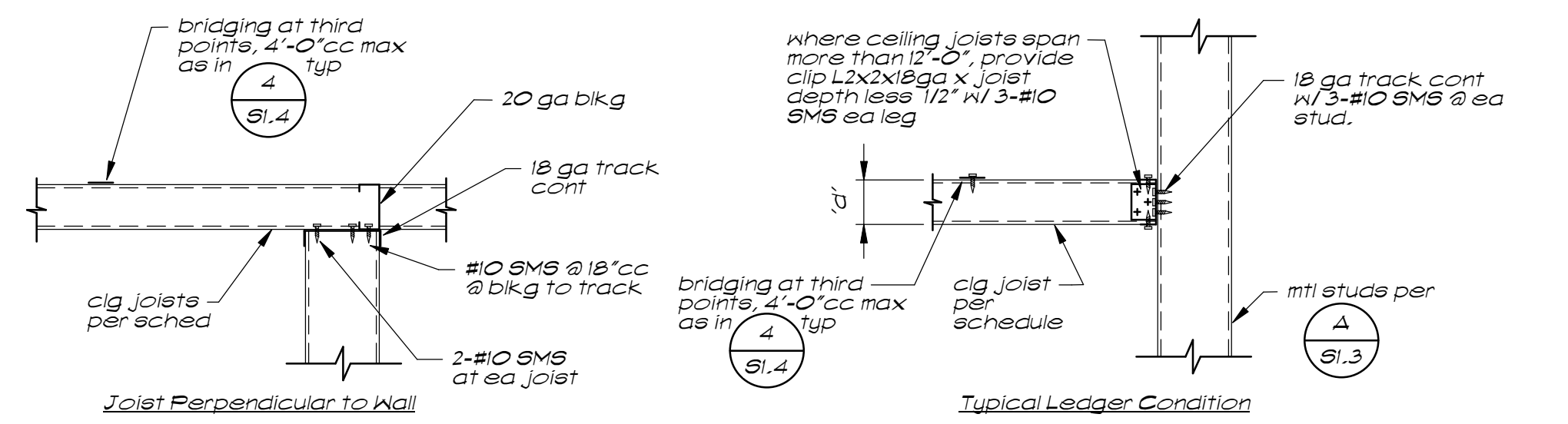
**Jamb Studs at Sill Track** (1) (S1.3)



**Sill Track to Slab** (2) (S1.3)



**Typical Partial Height Partition Wall Bracing** (3) (S1.3)

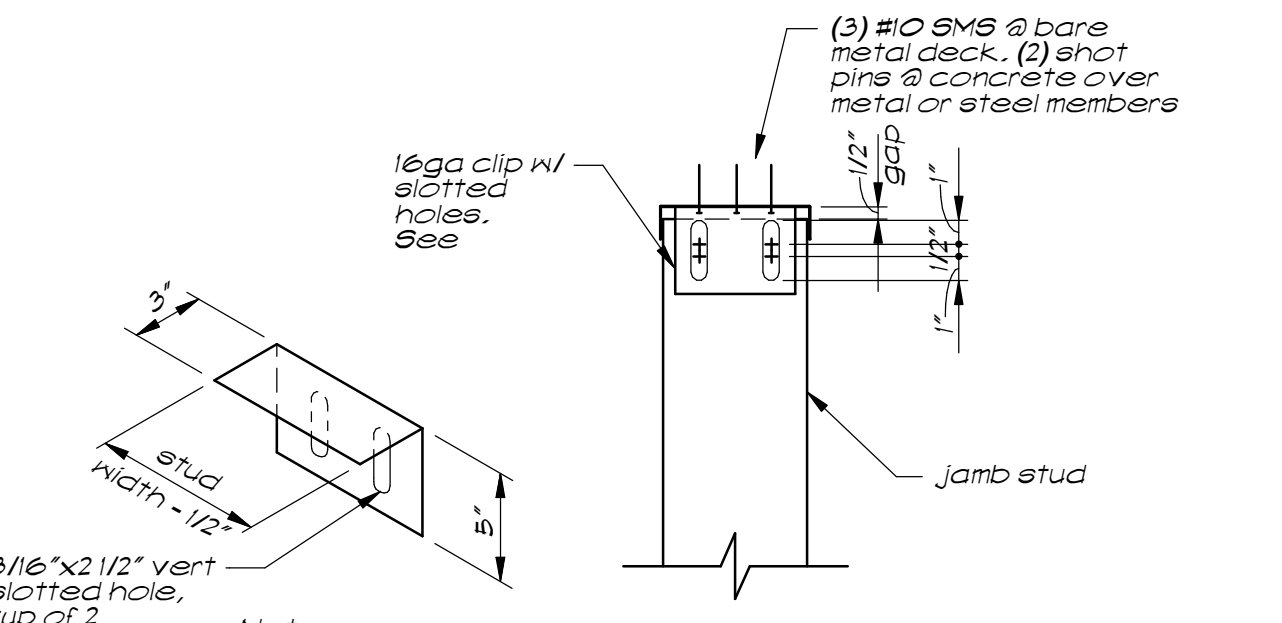


**Ceiling Joist Schedule**

Non-accessible Span	Accessible Span	Ceiling Joist
10'-0" max	8'-0" max	2 1/2" x 18 ga @ 16" cc
14'-0" max	8'-0" max	3 5/8" x 18 ga @ 16" cc
14'-0" max	10'-0" max	6" x 20 ga @ 16" cc
20'-0" max	12'-0" max	6" x 18 ga @ 16" cc
22'-0" max	16'-0" max	6" x 16 ga @ 16" cc

1. All studs & joists are "B" type.

**Typical Framed Ceiling Details** (4) (S1.3)



**Jamb Stud Clip Attachment at Slip Track** (5) (S1.3)

**Interior Wall Opening Framing Schedule**  
 Deflection Limit = L/250

W' width max (B)	Jamb	Header	SI	HC4-B Screen Spcg
4'-0"	J1	H2	SI	3-5/8" x 4" nails 6" x 8" nails
8'-0"	J2	H4	SI <sup>9</sup>	
12'-0"	J3	HC4-B	SI <sup>4,5,12</sup>	8" cc 4" cc
16'-0"	J4	HC4-B	SI <sup>10</sup>	8" cc 4" cc

- Use J2 minimum at door openings
- Use J2 at 4'-0" max corgs in 20ga nails
- Use J2 at 4'-0" max corgs in 8" x 18ga nails
- H4-B may be used at 12'-0" max corgs in 18ga and 14ga nails w/ the exception of 8" nails
- Use 18ga min. headers at 12'-0" max corgs in 8" nails
- Use 18ga min. headers at 16'-0" max corgs in 3-5/8" x 4" nails
- Use 14ga min. headers at 16'-0" max corgs in 6" x 8" nails w/o
- Use HC4-B headers at 16'-0" max corgs in 8" x 14ga nails
- Use SI<sup>12</sup> at 8'-0" max corgs in 3-5/8" x 20ga, 4" x 20ga, and 6" x 20ga nails
- SI<sup>10</sup> may be used at 16'-0" max corgs in 18ga and 14ga nails w/ the exception of 3-5/8" nails
- See sheet S1.4 for jamb, header, and all details
- "H4-B" indicates header type and depth of vertical stud elements frame header. "HC4-B" indicates composite header w/ add'l screen requirements - see schedule (S1.3)
- For connection @ base of wall at jamb see (S1.3)
- For connection @ top of wall at jamb see (S1.3)

**Interior Metal Stud Partitions**  
 Maximum height for Metal Studs with Size # S1.3, 10 #10 Deflection Limit L/250 - Non Bearing with Cabinet or Equipment

Depth	Gage	Designation <sup>3</sup>	Height
3 5/8"	20	362S62-33	17'-4"
3 5/8"	18	362S62-43	18'-6"
3 5/8"	16	362S62-54	20'-10"
3 5/8"	14	362S62-68	22'-1"
4"	20	400S62-33	18'-10"
4"	18	400S62-43	20'-1"
4"	16	400S62-54	22'-1"
4"	14	400S62-68	24'-1"
6"	20	600S62-33	25'-1"
6"	18	600S62-43	26'-8"
6"	16	600S62-54	33'-8"
6"	14	600S62-68	35'-10"
8"	20	800S62-33	29'-1"
8"	18	800S62-43	36'-1"
8"	16	800S62-54	42'-1"
8"	14	800S62-68	46'-10"

- Studs shall be depth as indicated on Arch drawings and gauge as determined by height of wall and the schedule above.
- See elevations (S1.3) for typical wall framing conditions.
- Designation conforms to Steel Stud Manufacturers Association standards.
- The max. hts noted in this table are based upon the use of seismic component load P<sub>o</sub> or a live load of 5psf, whichever governs.



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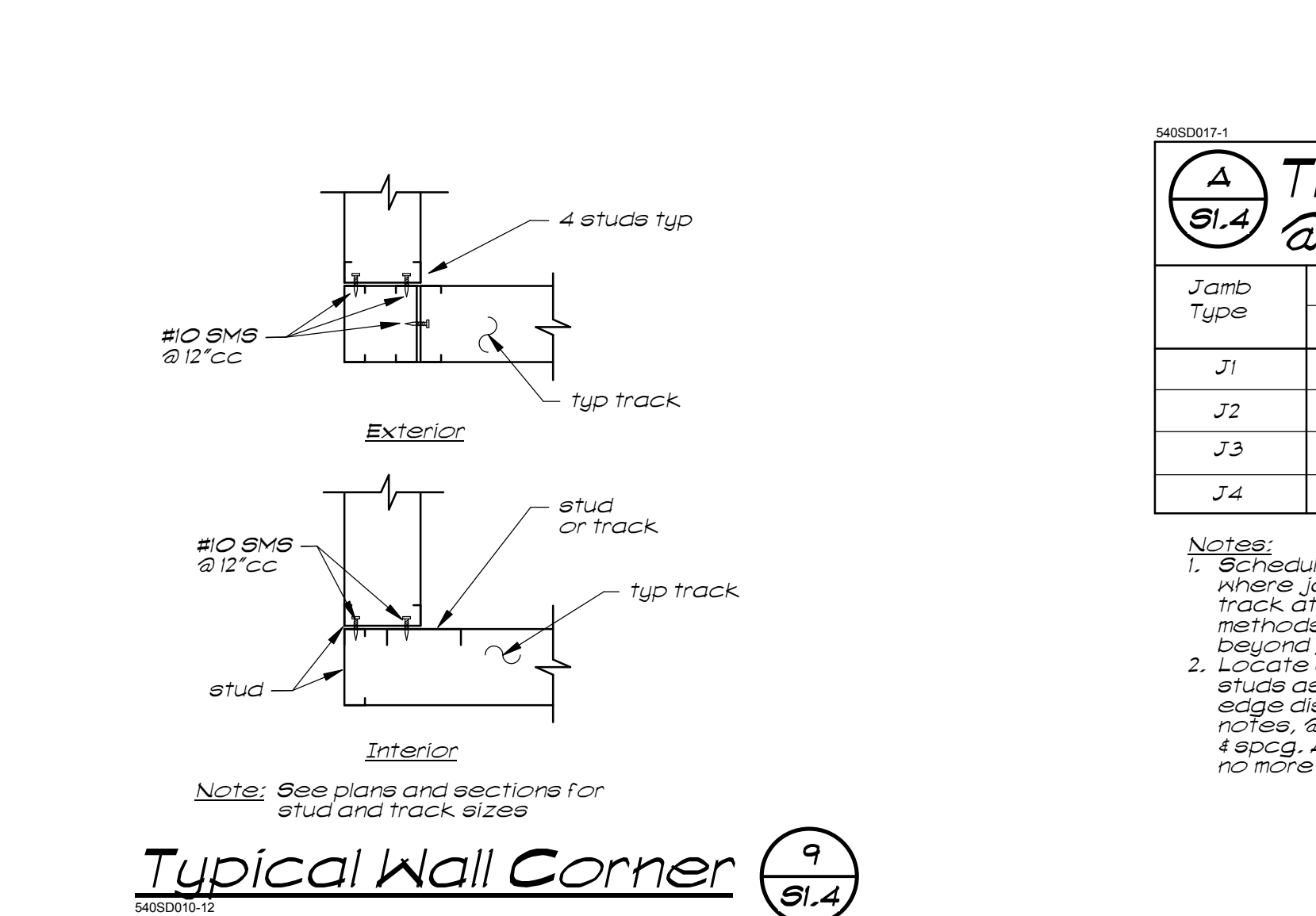
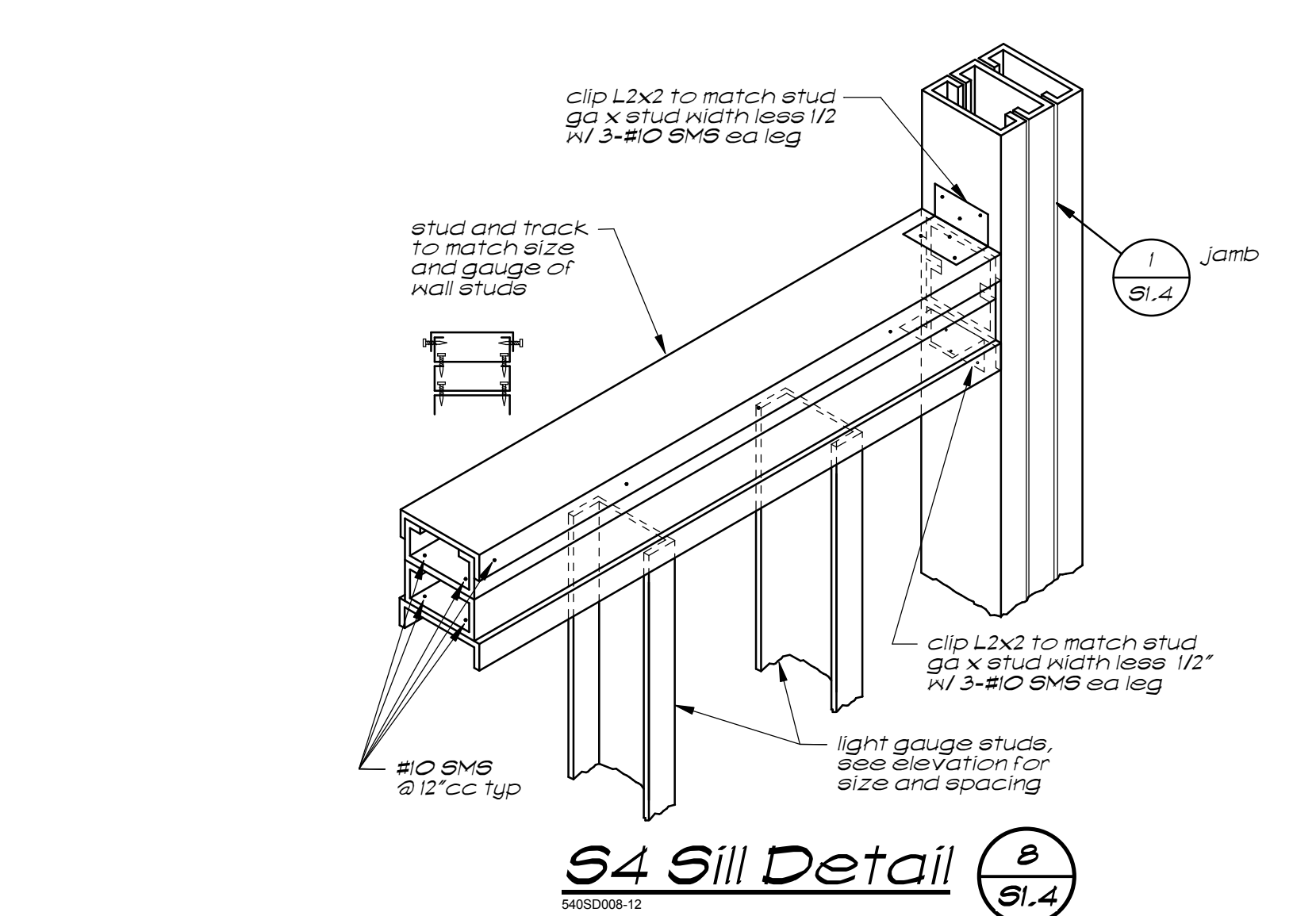
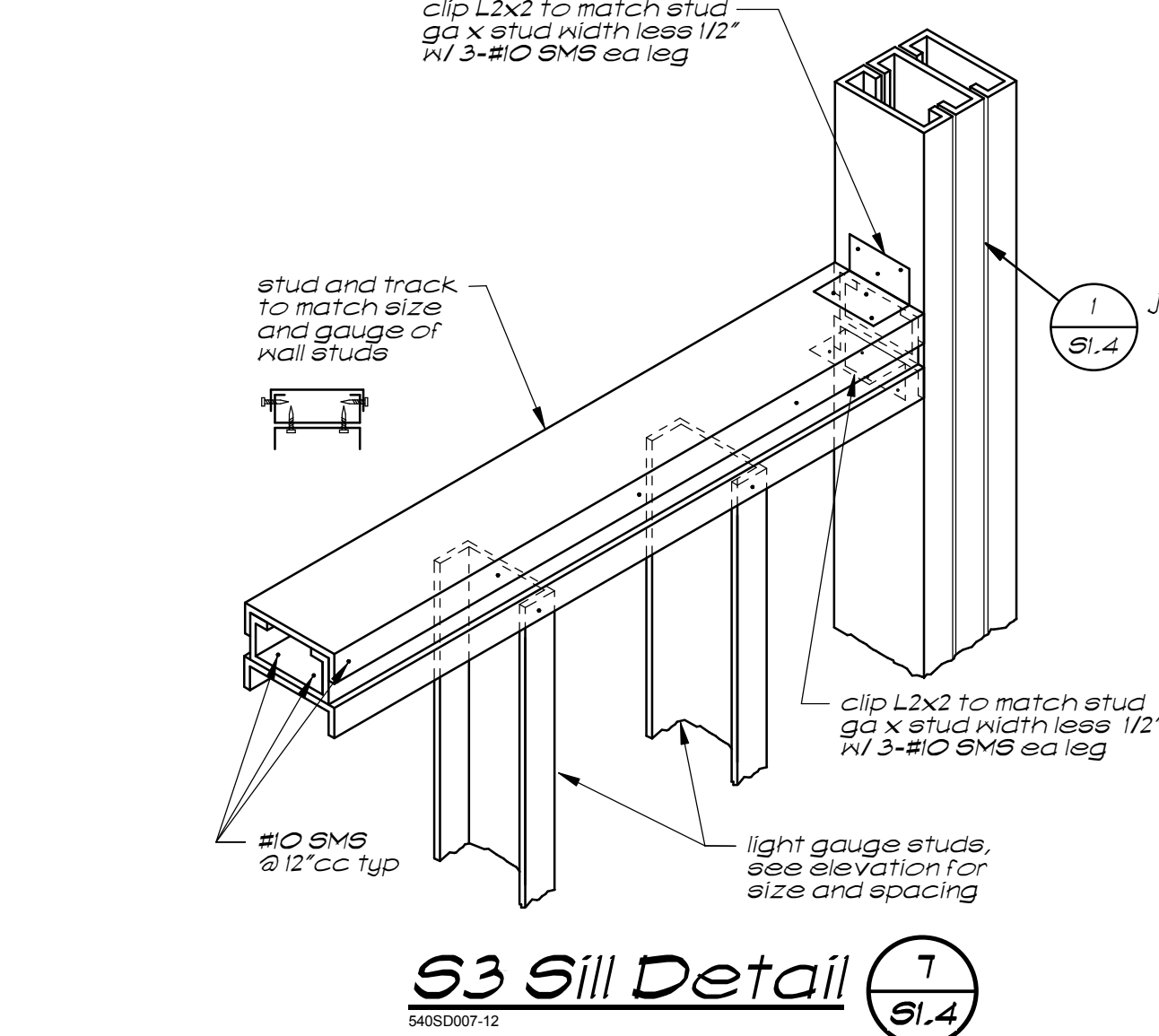
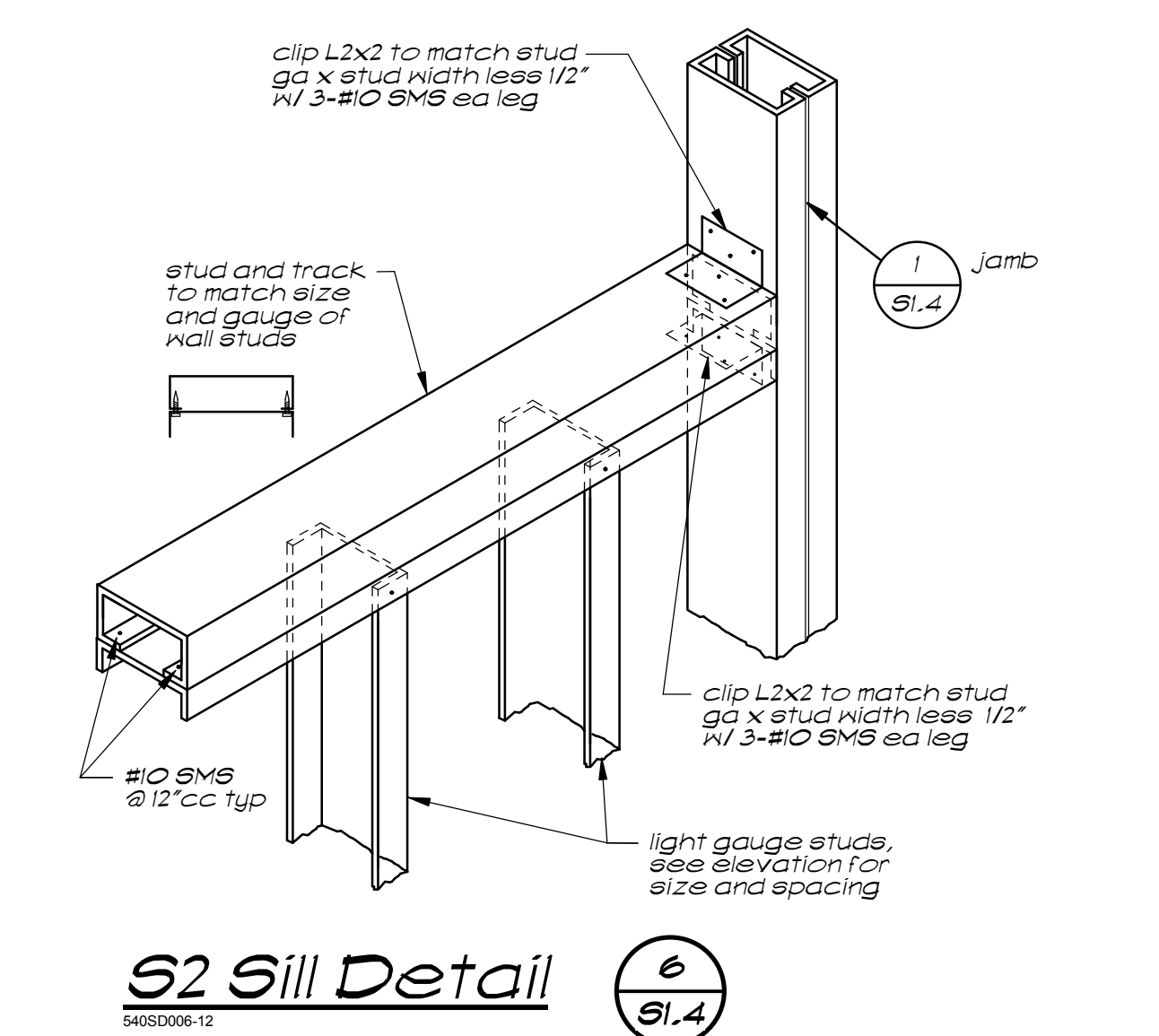
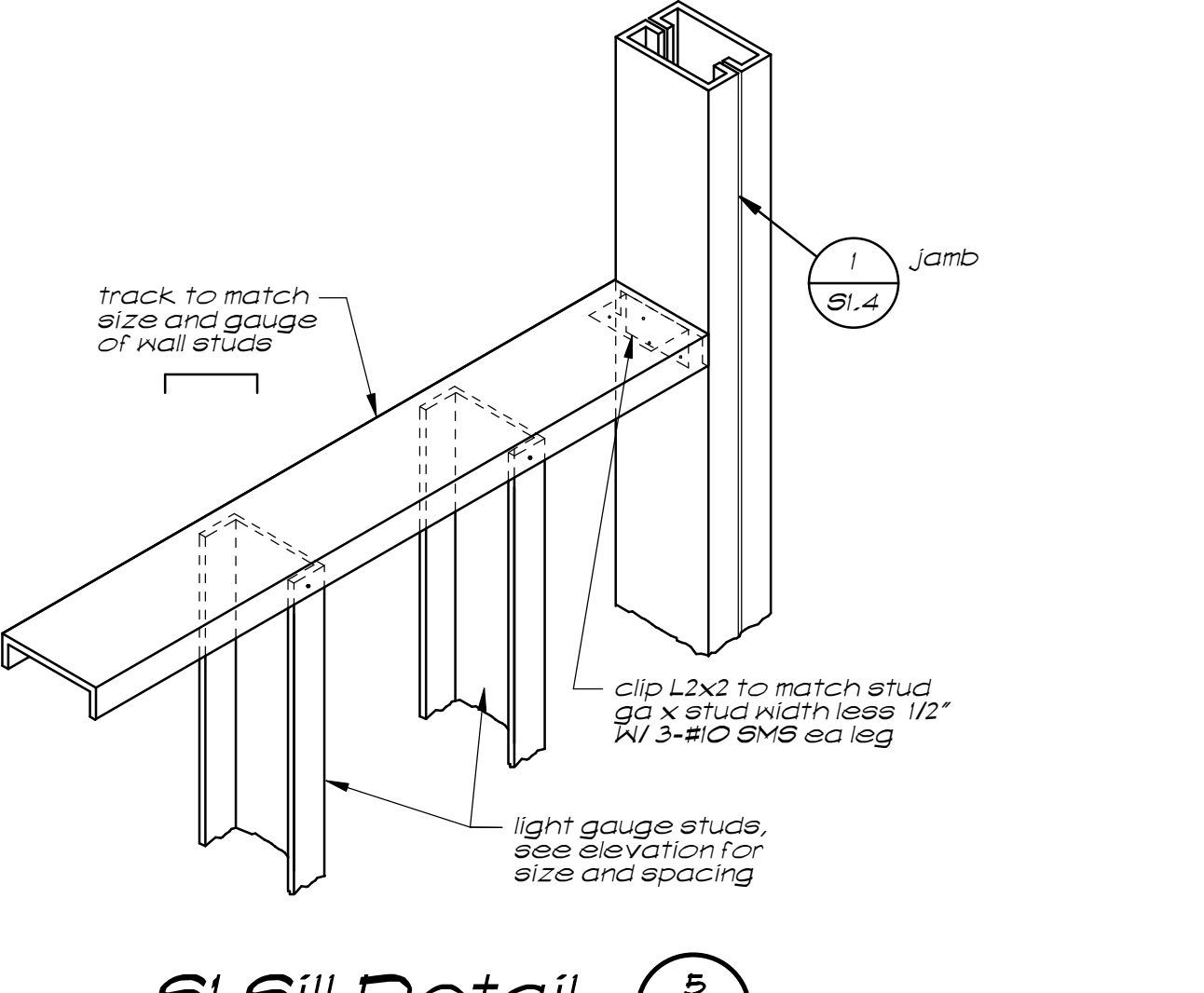
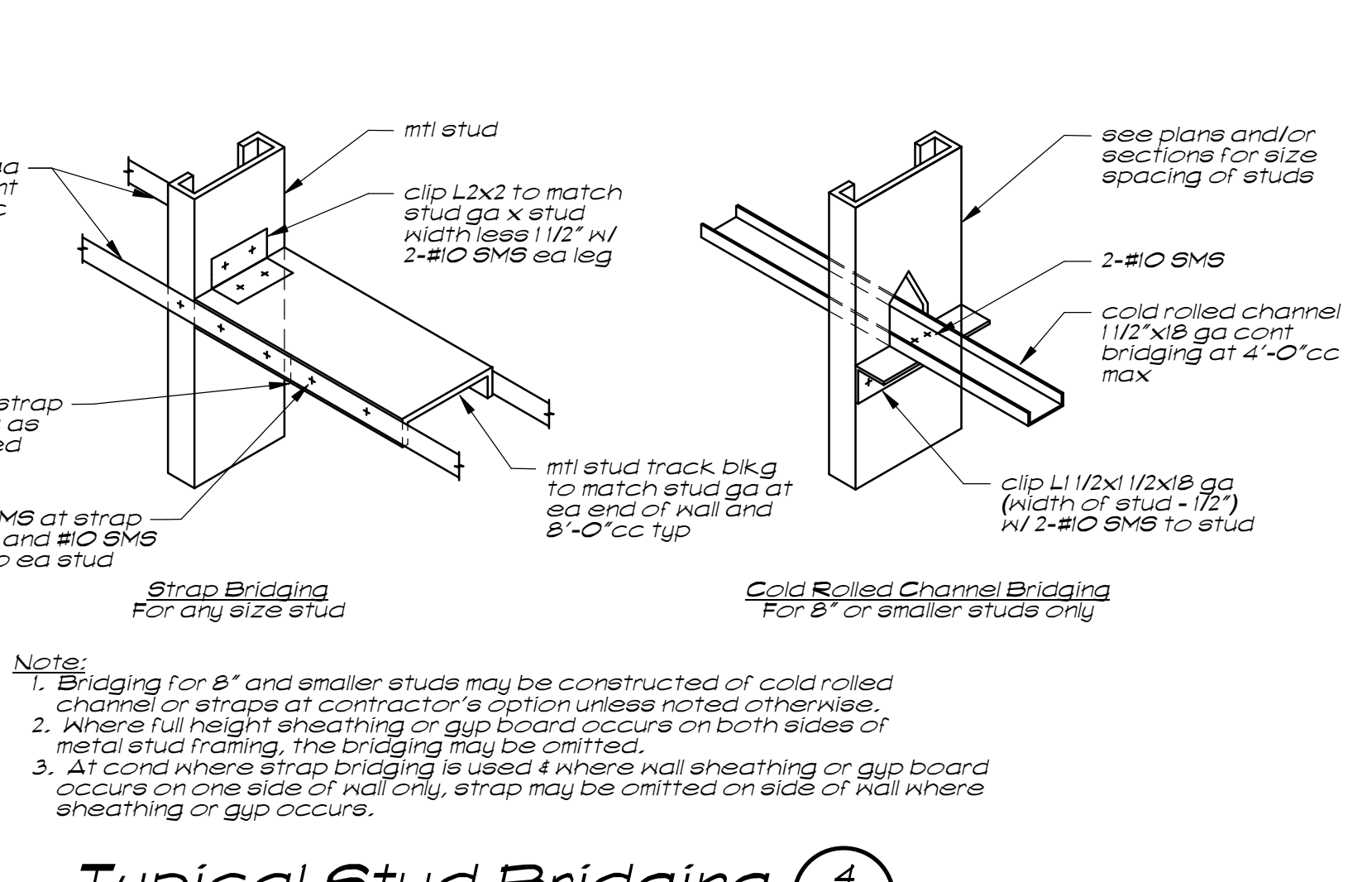
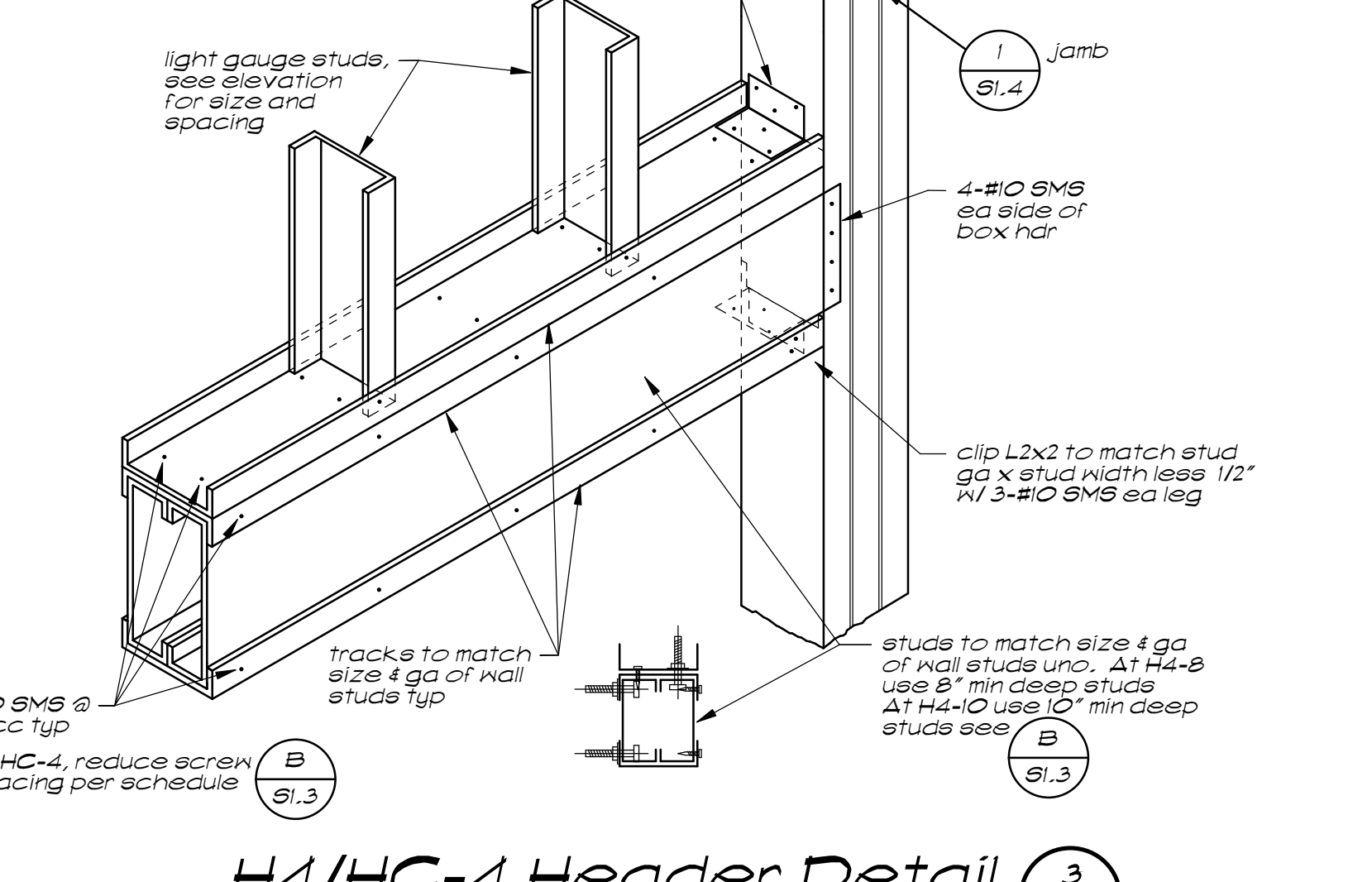
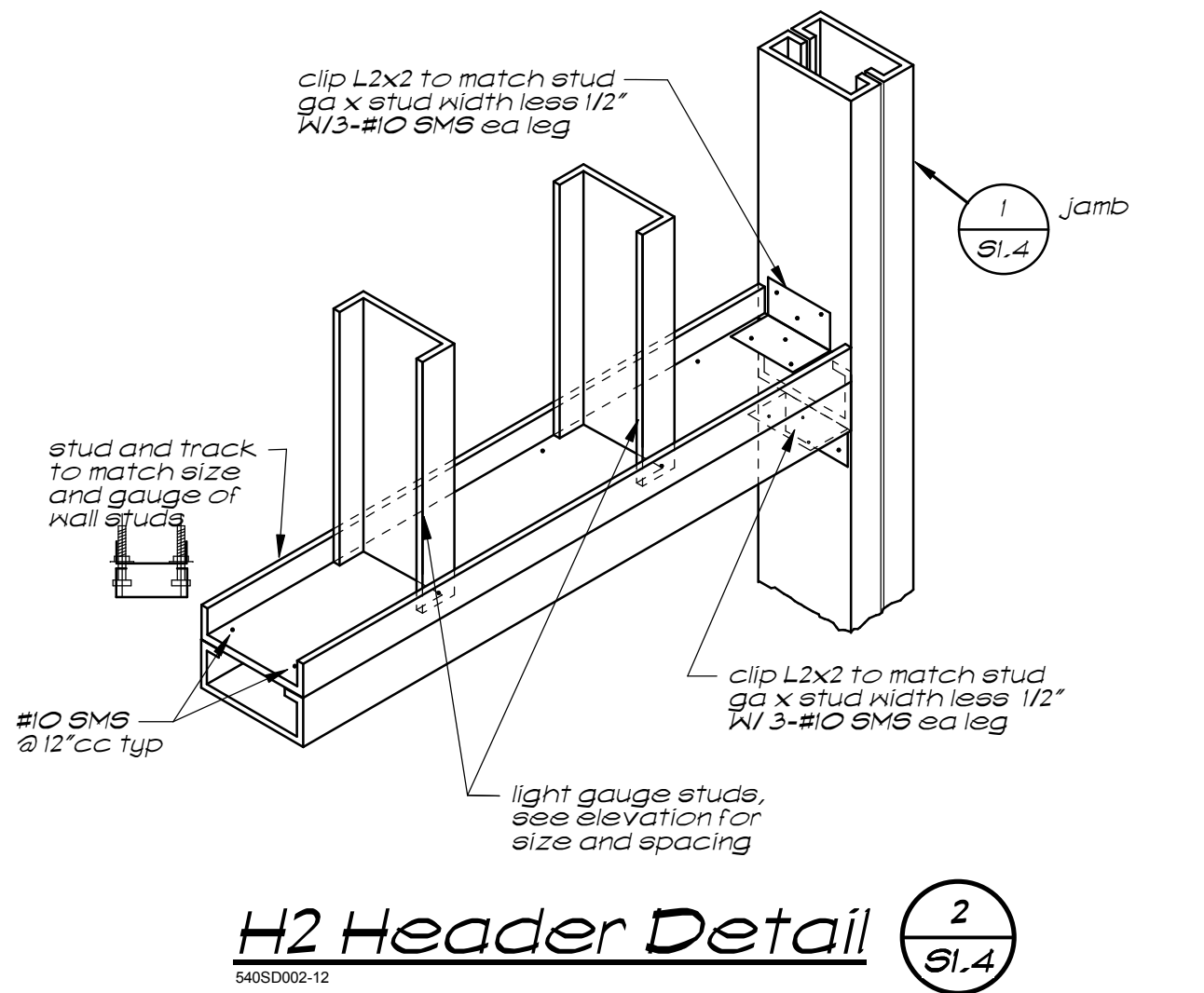
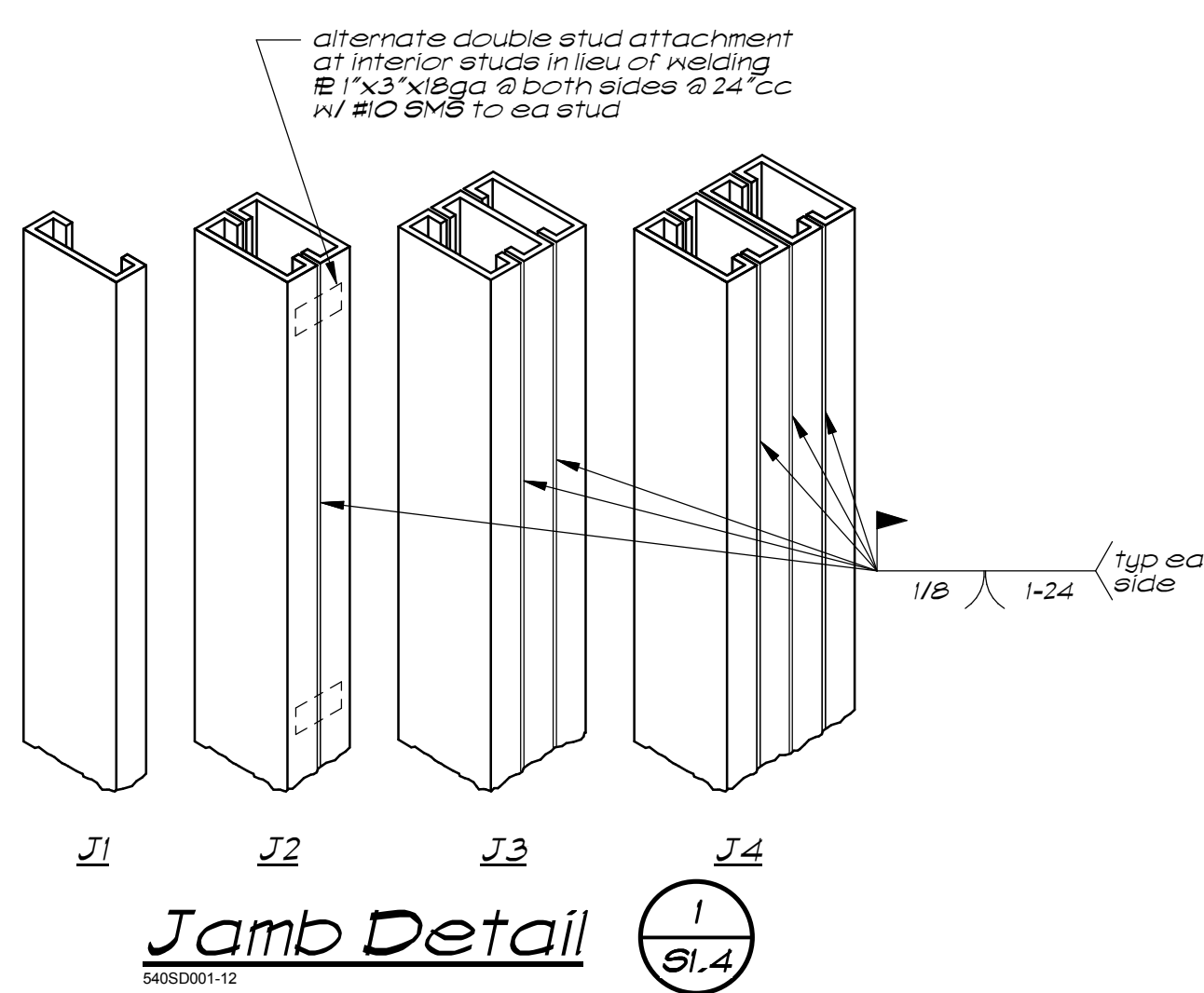
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Jamb Type	Shot Pin	SMS	1/2" bolts
J1	1	1	1
J2	2	2	1
J3	3	3	1
J4	4	4	2

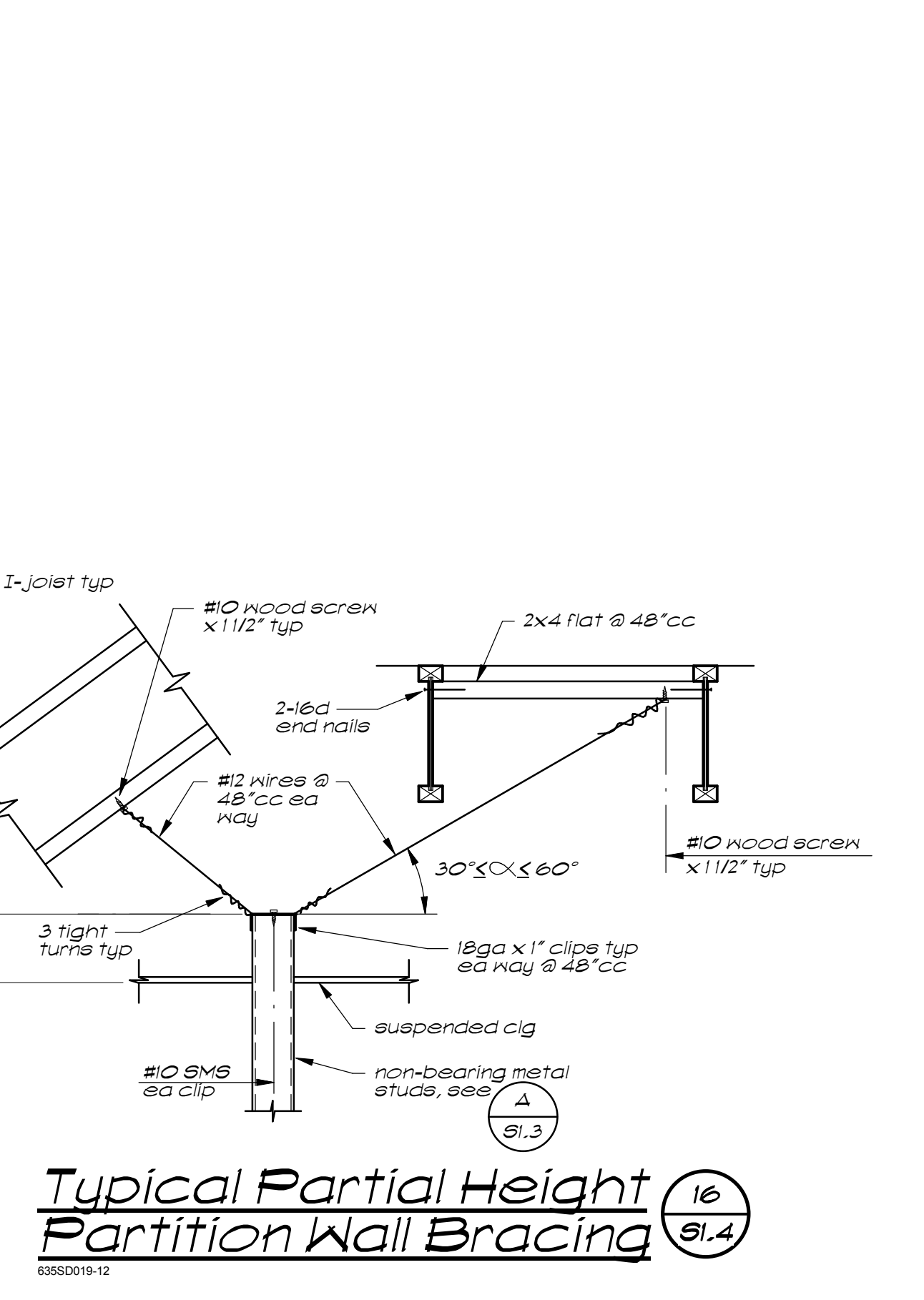
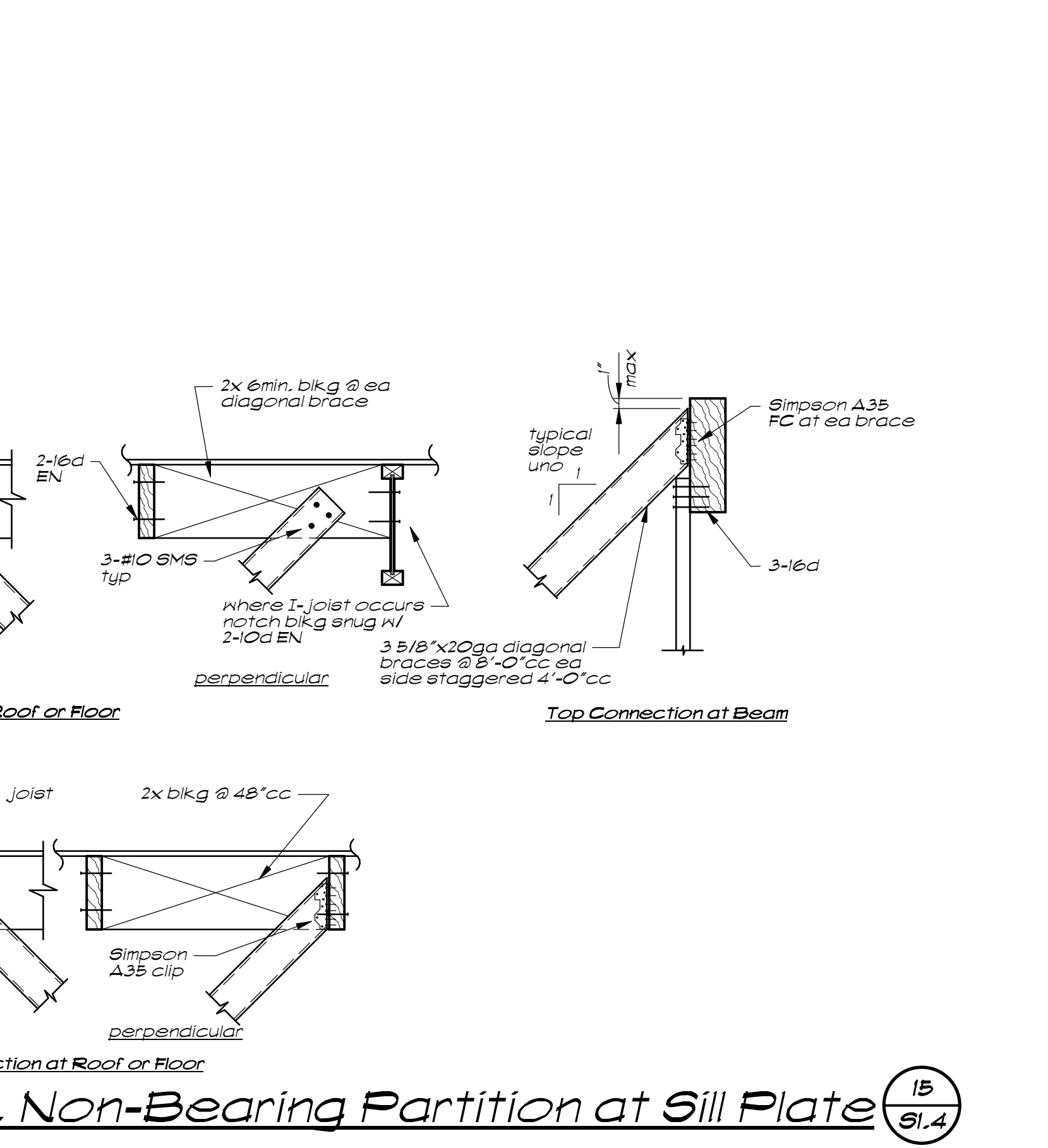
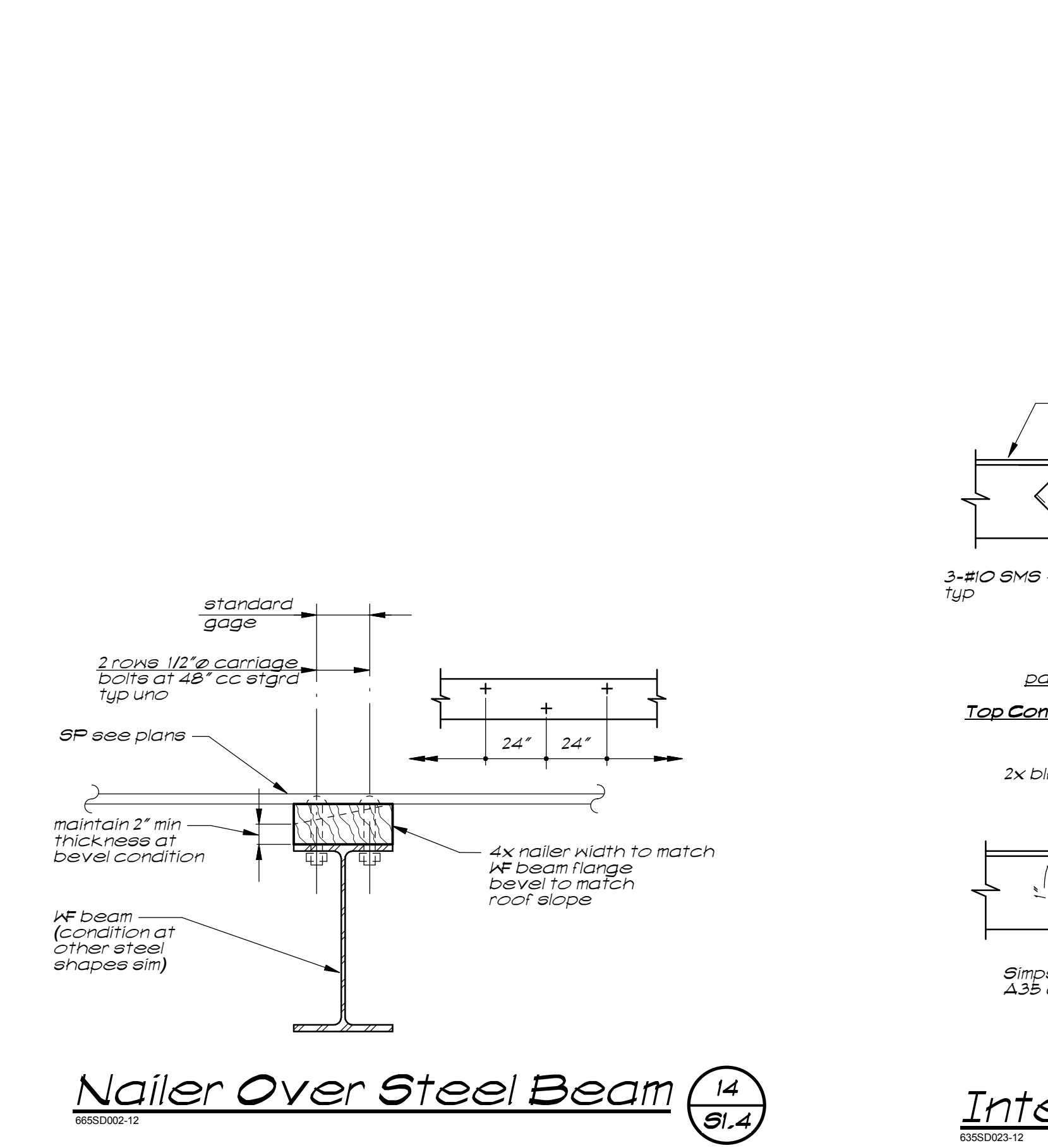
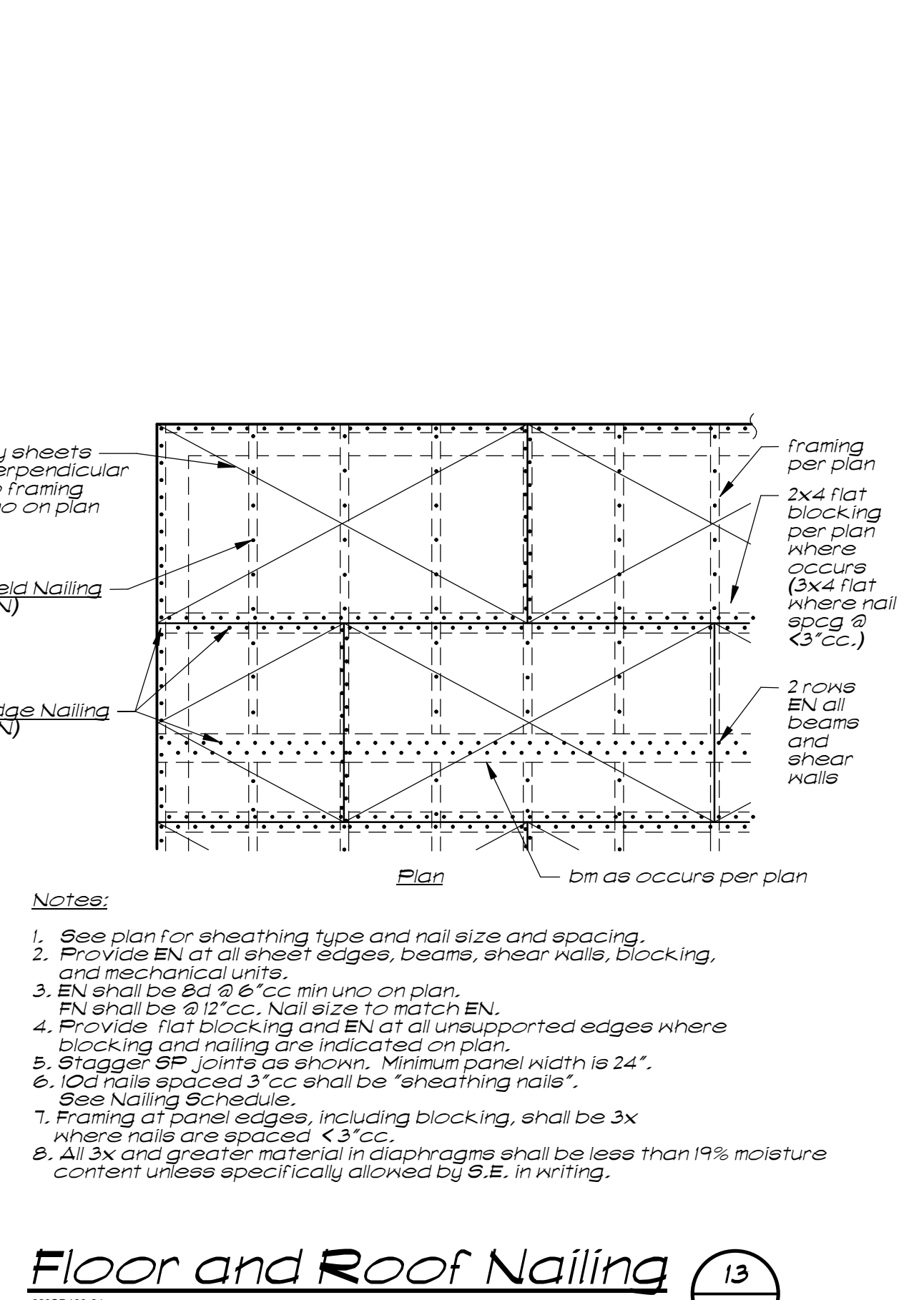
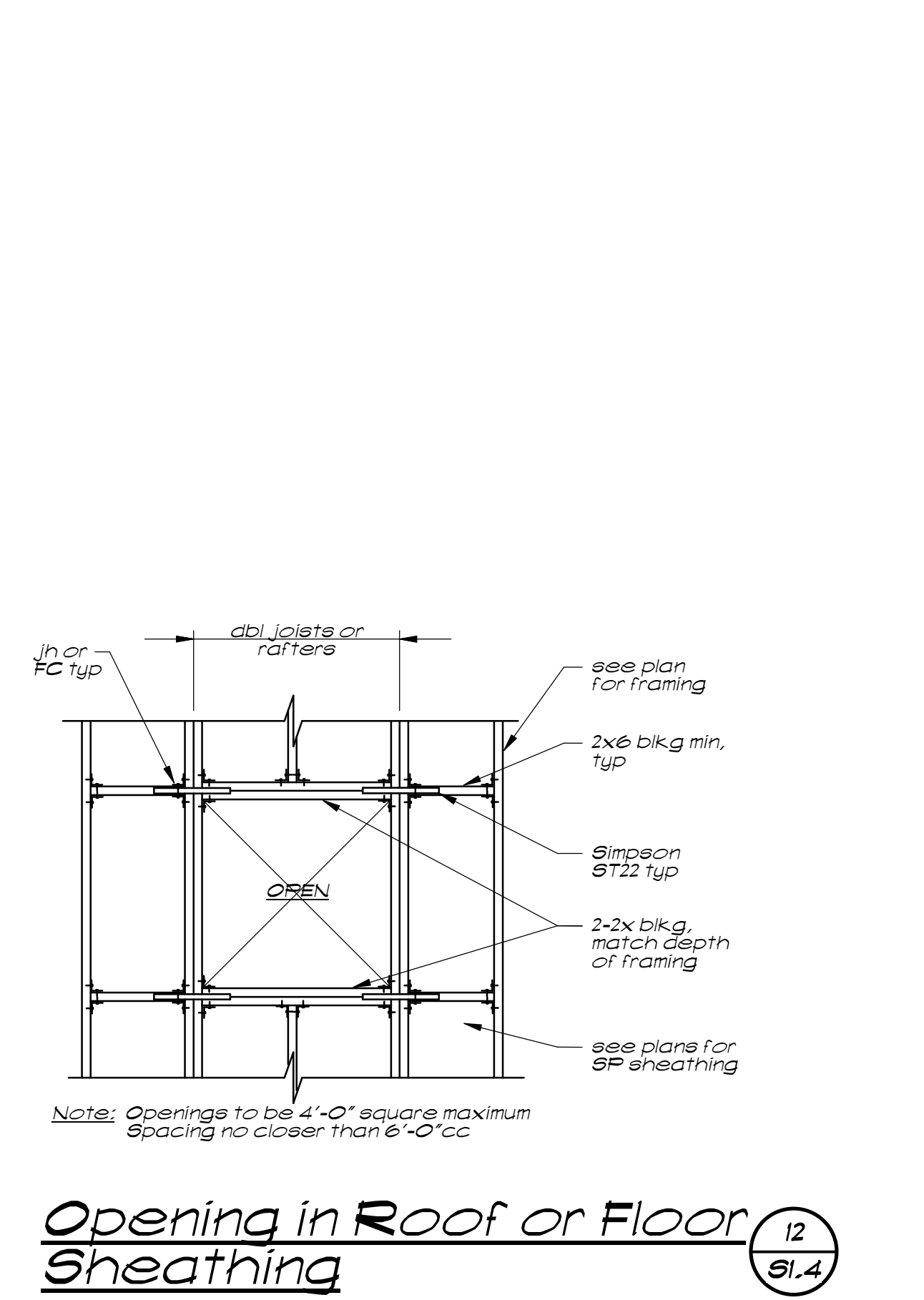
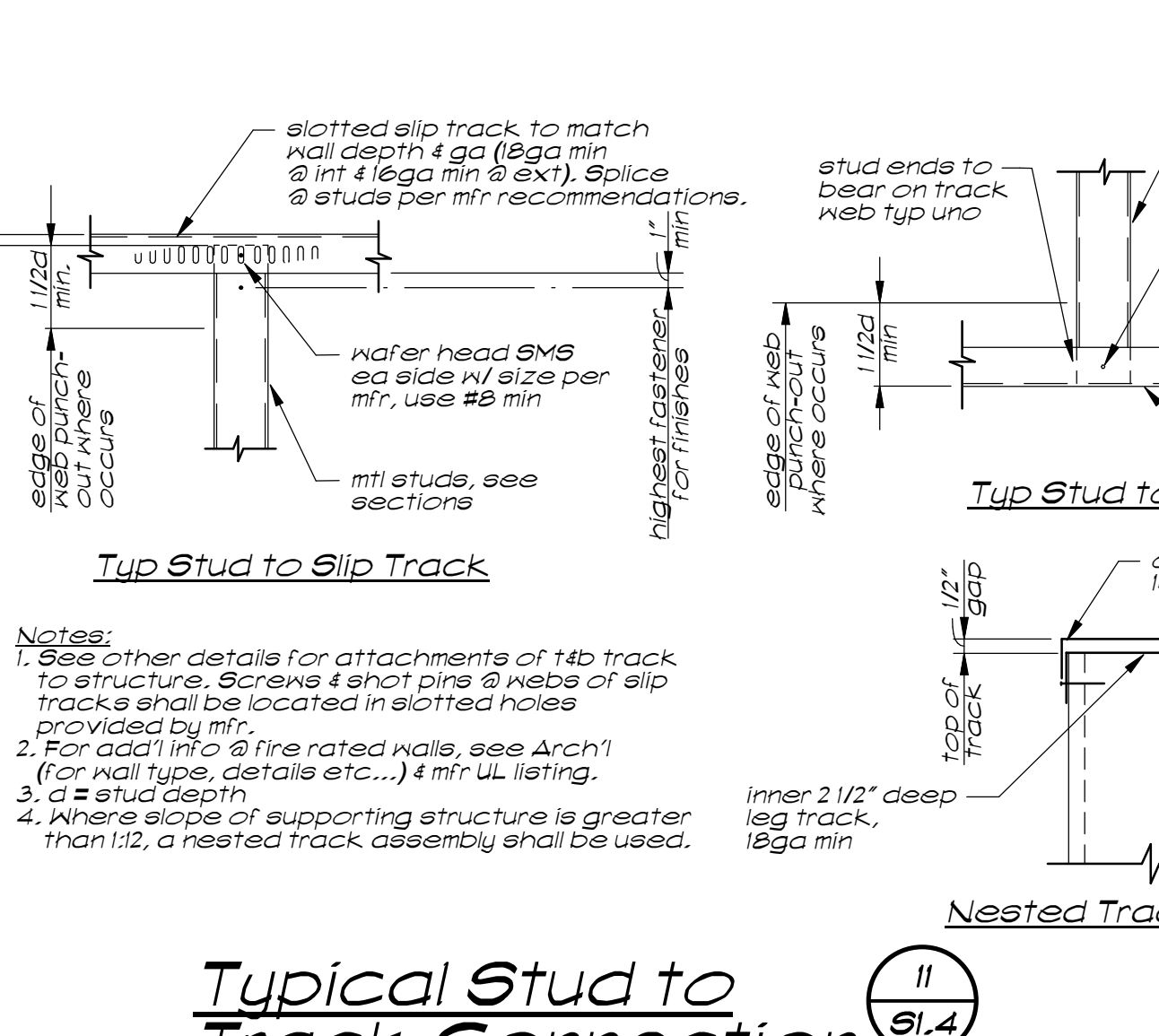
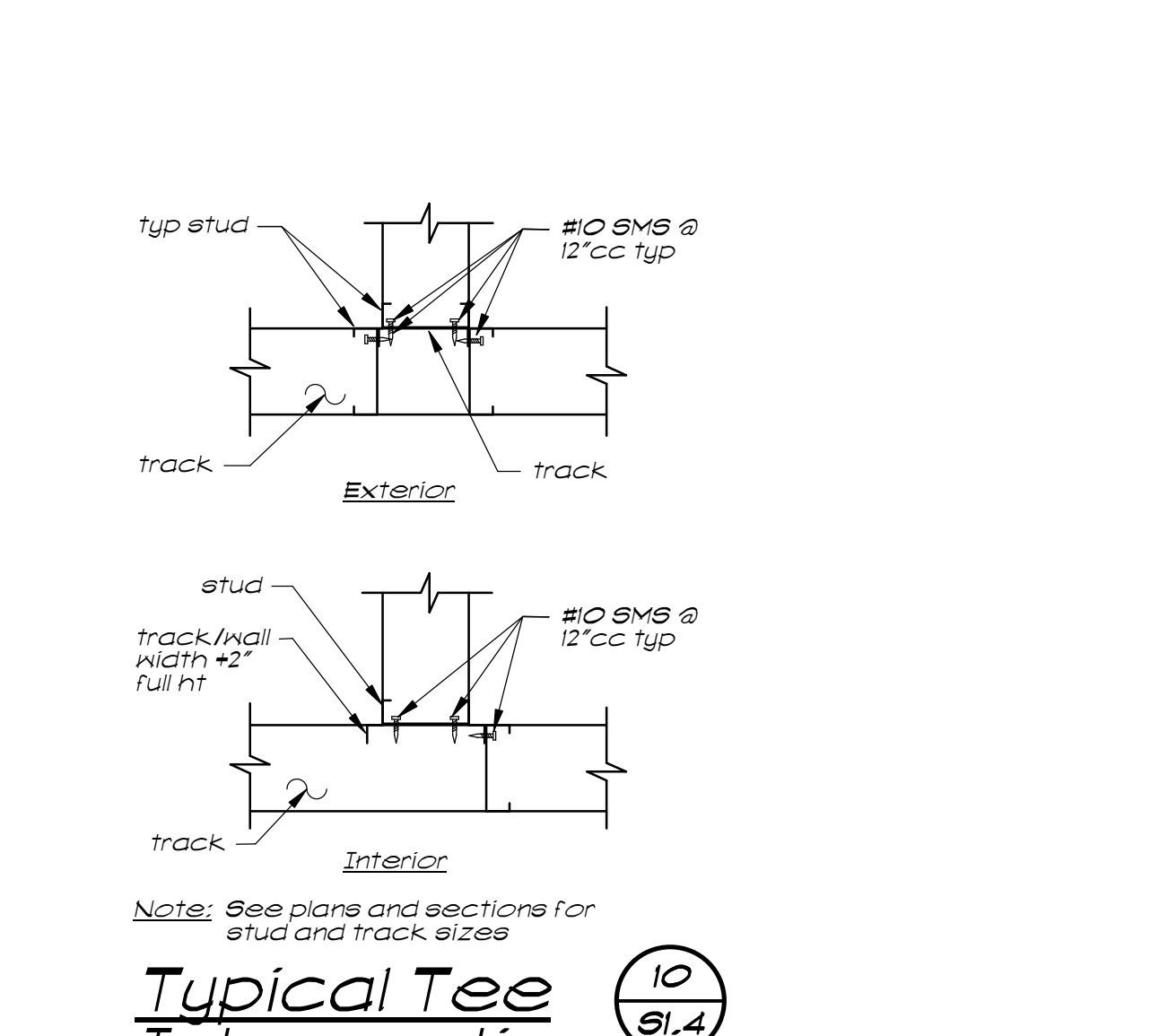
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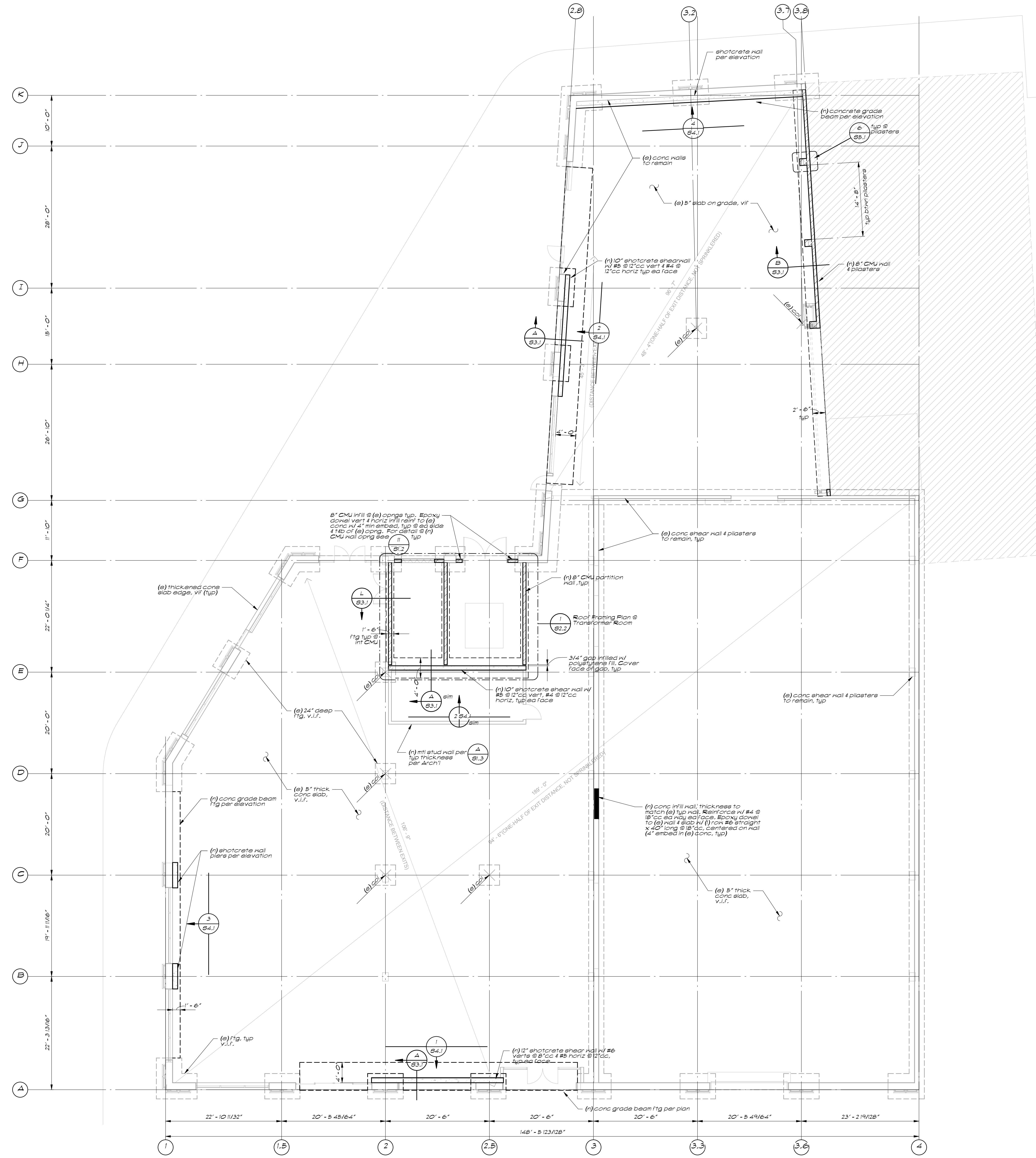


**Track Attachment @ Jamb Studs**

Track Attachment Method	J2
Jamb Type	
J1	1
J2	2
J3	3
J4	4

**Notes:**  
1. Schedule indicates track attachments required where jamb studs occur. See typical all and top track attachment details for basic attachment methods (i.e. shot pins, SMS, bolts etc.) & conditions beyond jamb studs.  
2. Locate all required attachments as close to jamb studs as possible. Maintain all fastener spacing and edge distance requirements. At shot pins, see typical notes. @ SMS maintain 1.8x diameter min edge distance. @ bolts. At bolts space no closer than 2 diameters and no more than 8" from end of track.





**Foundation Plan - 1/8" = 1'-0"**

**Foundation Plan Notes:**

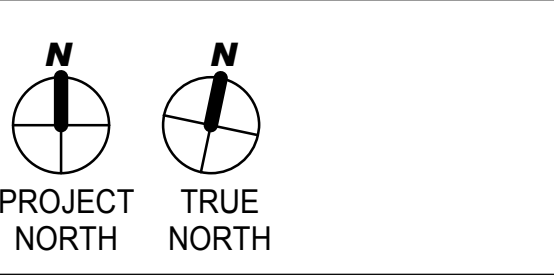
- Site preparation and building pad construction shall be done in accordance with Soils Report # 13-076 by Geological Technological Services. All foundation excavations shall be reviewed by a Geotechnical Engineer prior to placement of reinforcing steel. Foundations shall bear on compacted existing fill per the requirements of the Soils Report.
- Verify all building dimensions and elevations w/ Arch'd drawings. Notify the Architect immediately if there are any conflicts w/ dimensions shown.
- Dimensions shown are to face of wall, face of block or 4 block or 4 block, unc.
- Provide slab on grade control joints (CJ) as indicated per (1) to all interior walls. Construction joints (CJ) may replace control joints as required.
- See sheets S1 thru S1.5 for General Notes 4 Typical Details which are applicable to all drawings unc.
- It is the contractor's responsibility to coordinate slab control joints with any architecturally exposed areas on the location of the crack control joints. Verify special condition control joints with Arch'd drawings.
- Contractor to coordinate exact dimensions and locations of thickened slabs, housekeeping pads, etc. with all other disciplines' drawings as well as with the equipment provided prior to commencing work.
- See Arch'd Civil drawings for all exterior curbs, flatwork, planters, ramps, etc.
- Indicates top of footing elevation with respect to reference top of concrete (10'-0") The bottom of all footings shall be at least 24" below minimum finished building pad elevation (on all sides), typ unc and as shown on sections.
- Indicates conc wall per plan. See elevations for add'l info. All horiz reinf shall have std 18" hooks @ ends, typ.
- Indicates 8" CMU wall. For reinforcing, see (10) Conduct in CMU to be per CMU notes.
- Indicates 12" CMU wall as above.
- Indicates wall control joint per (12) (S1.2)
- Contractor should anticipate encountering (e) one associated with former buildings. Consider that additional earthwork will be required for mitigating the removal of these foundations.
- The dimension between grade and face of building is approximate and is intended to accommodate the potential variability of the existing building. Structural elements shall be the full dimension shown on the plan or greater. Where surfaces are shown in contact, contractor shall fill void w/ materials indicated.
- Verify all dimensions of existing buildings in the field prior to fabrication and construction. Notify the Architect immediately if there are any conflicts.
- All construction is new unless noted as existing (e) on the drawings.
- Fill (e) holes in slab on grade, base and subsoil where occur. Use properly compacted fill per soils report.
- Indicates (e) URM wall
- Indicates (e) concrete wall
- Indicates (e) wood column
- Indicates (e) wide flange column
- Indicates (e) concrete column



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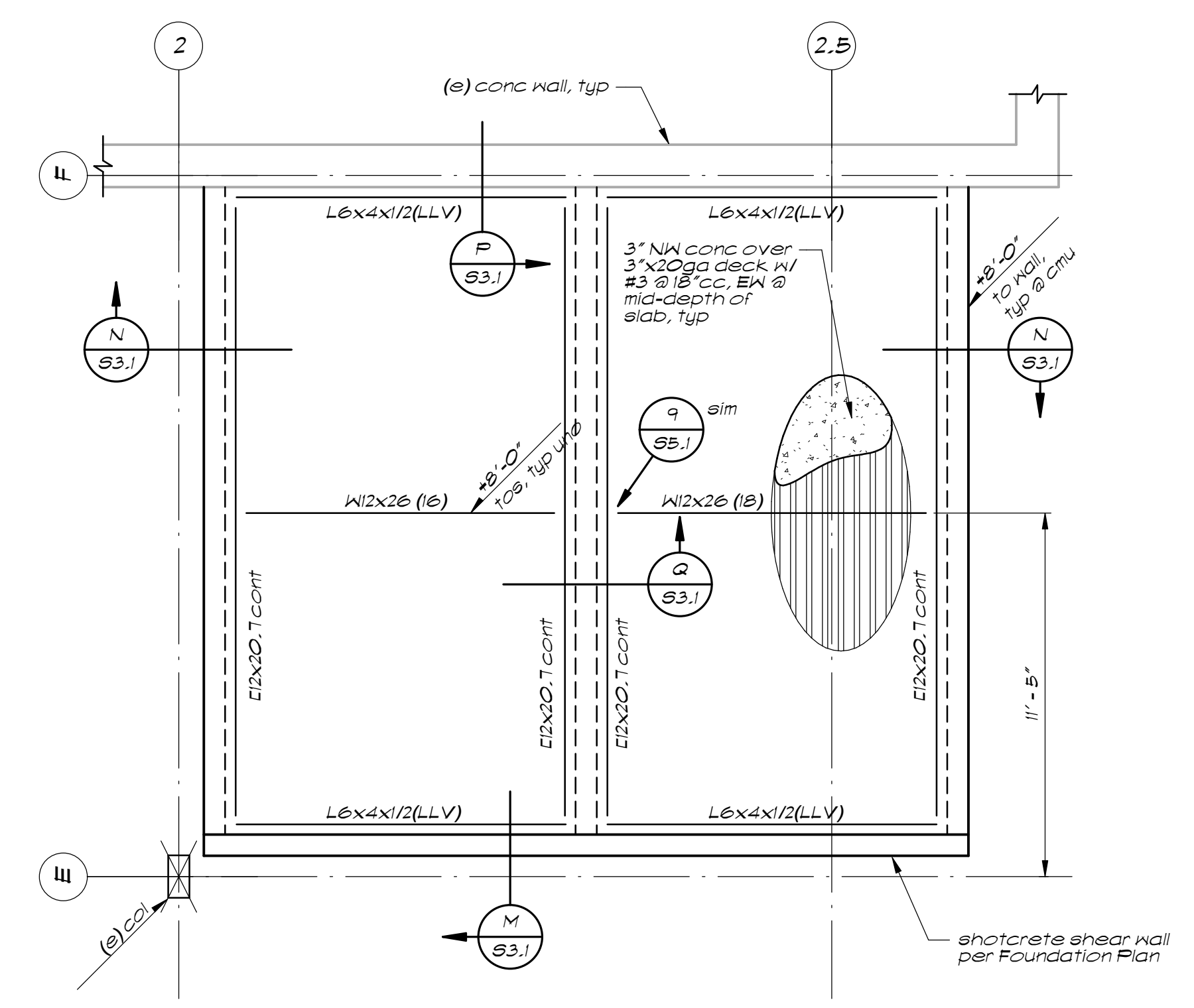
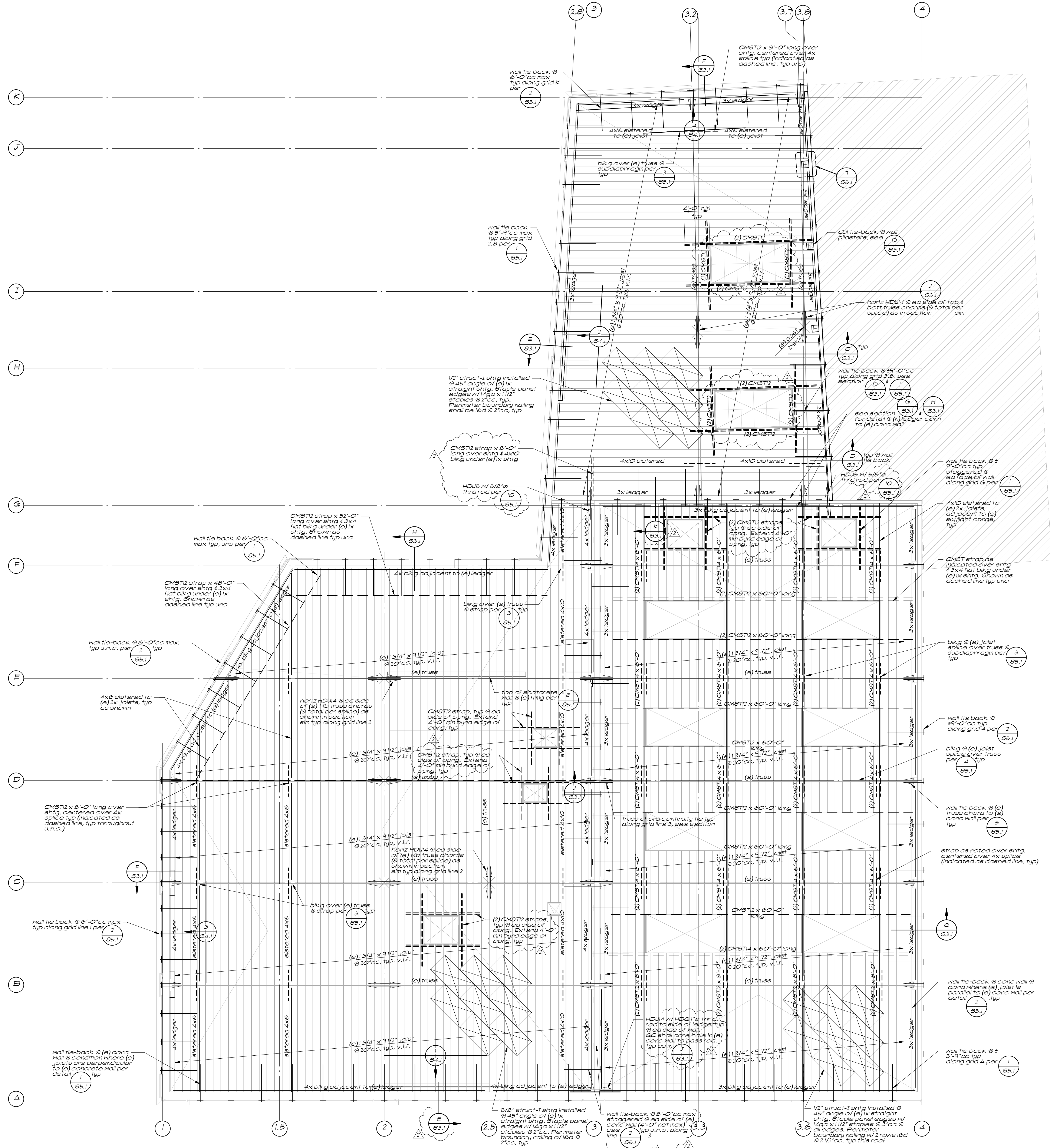
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**Foundation Plan**

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**S2.1**

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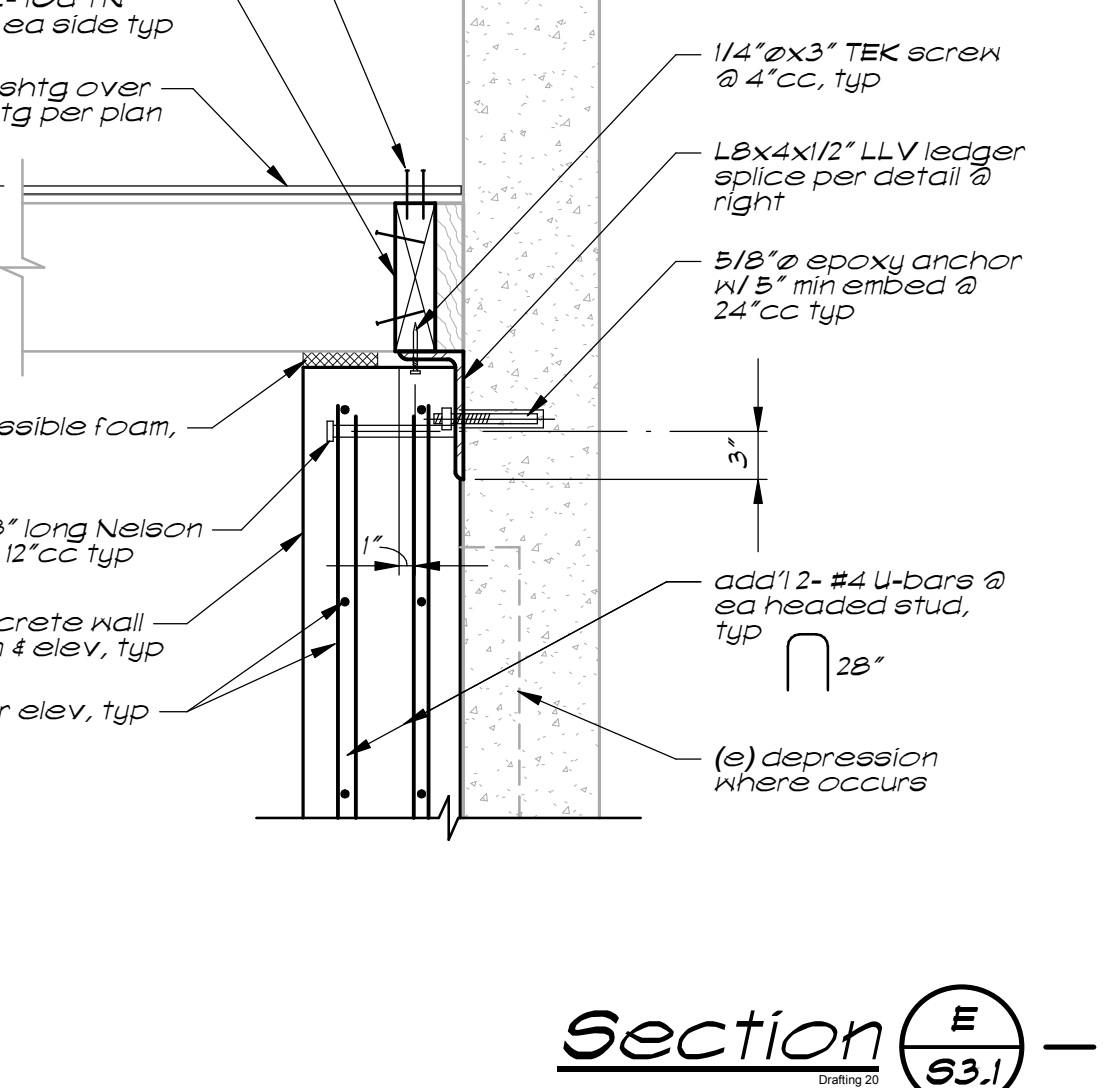
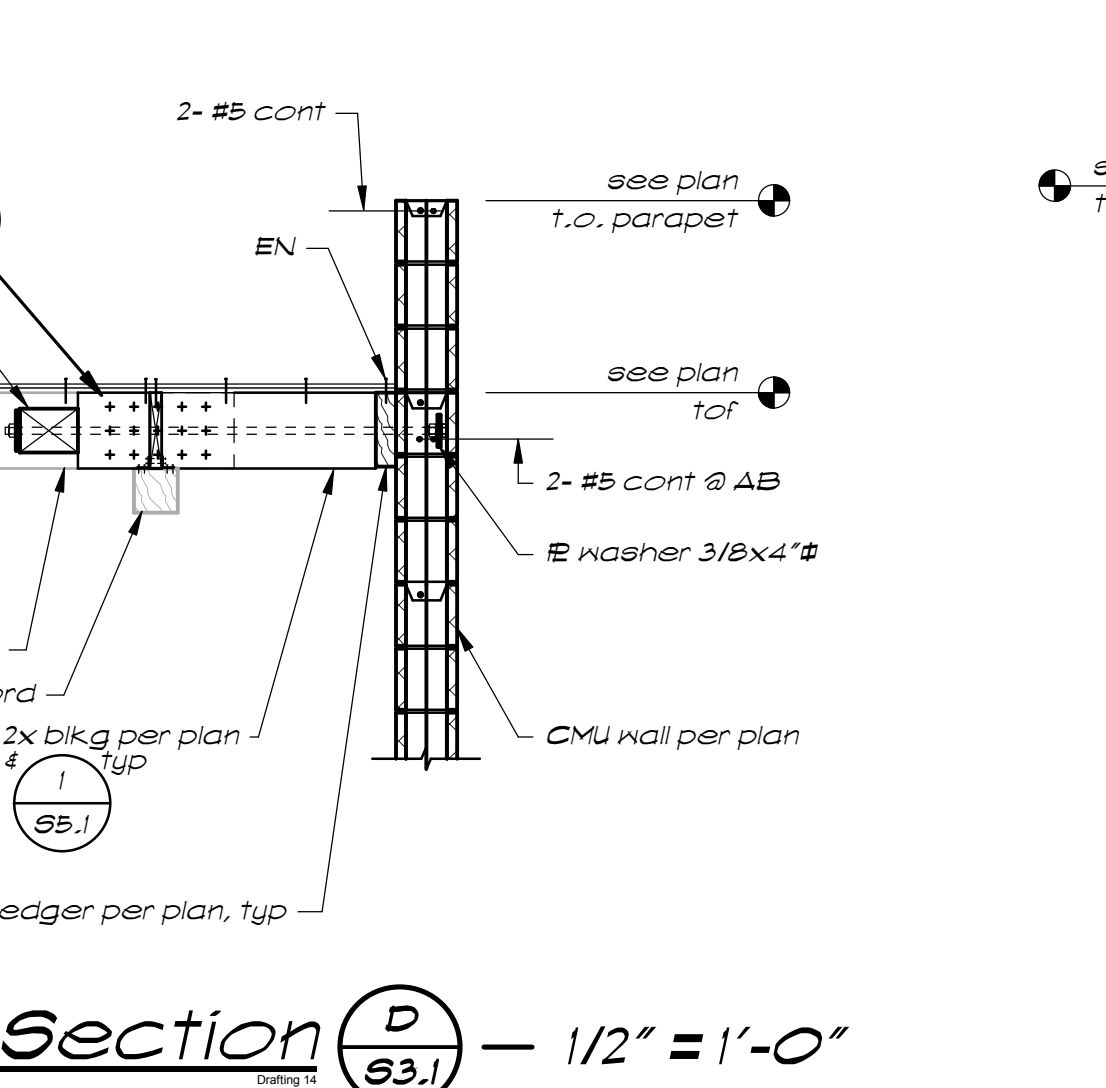
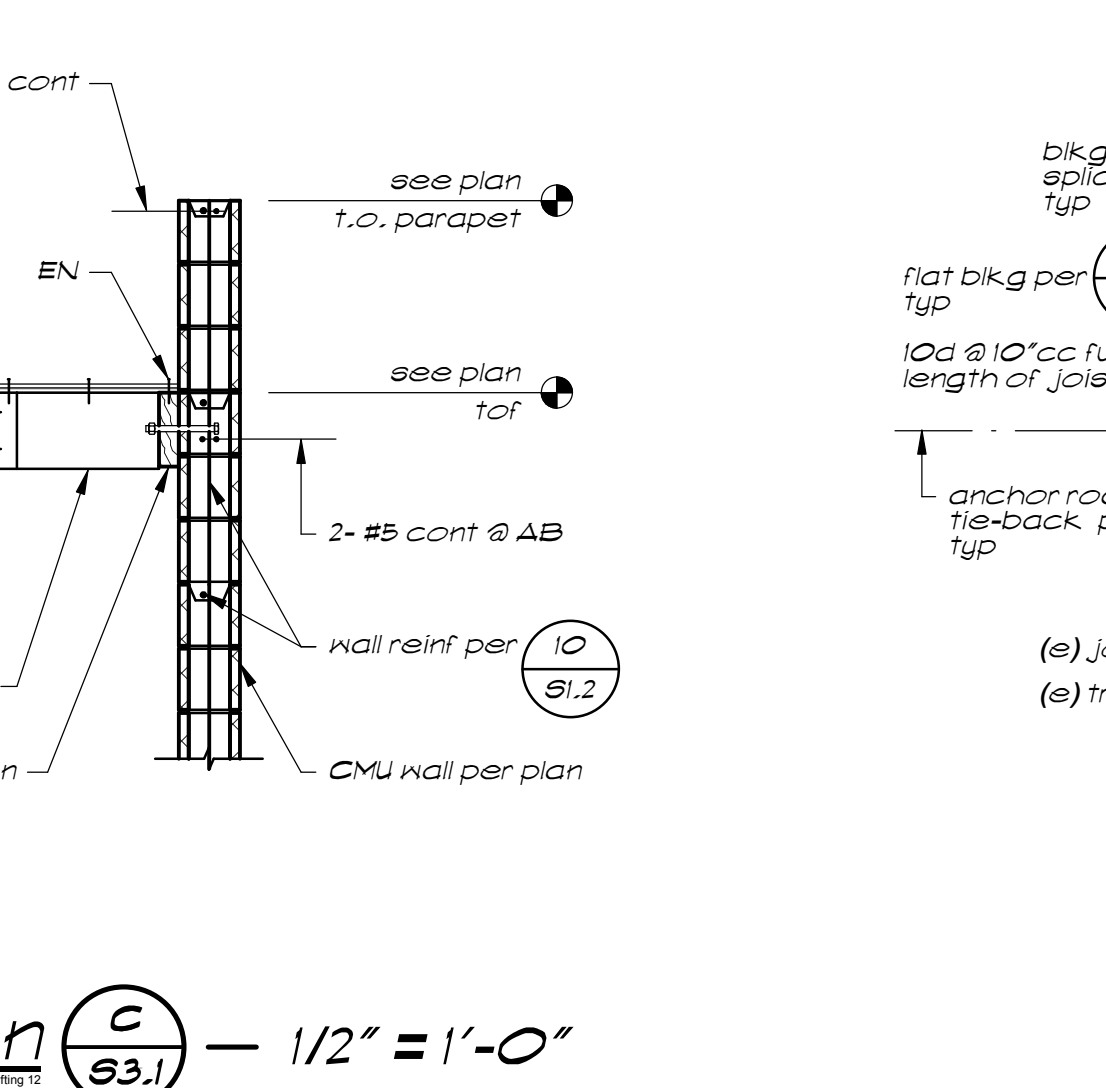
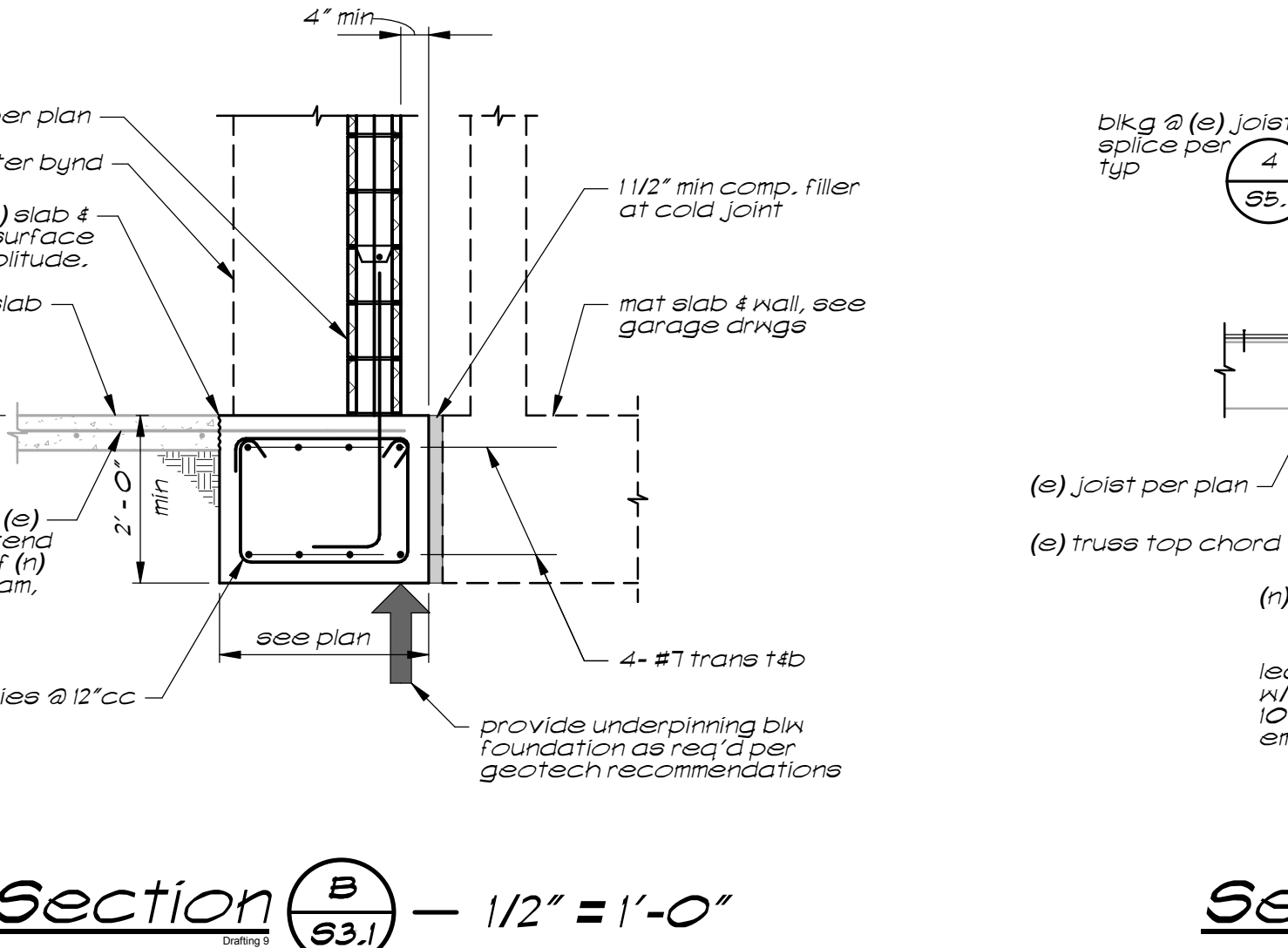
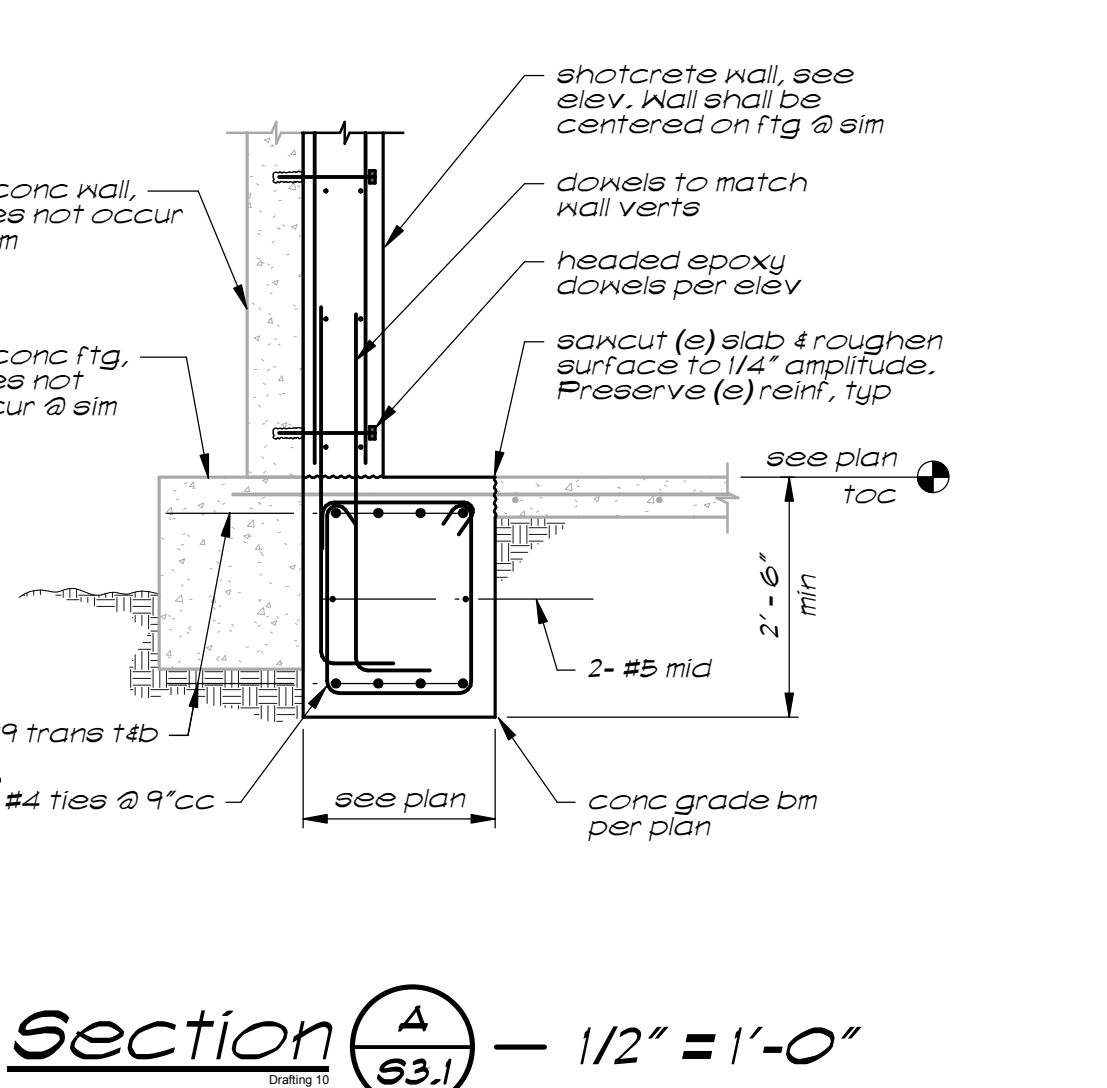
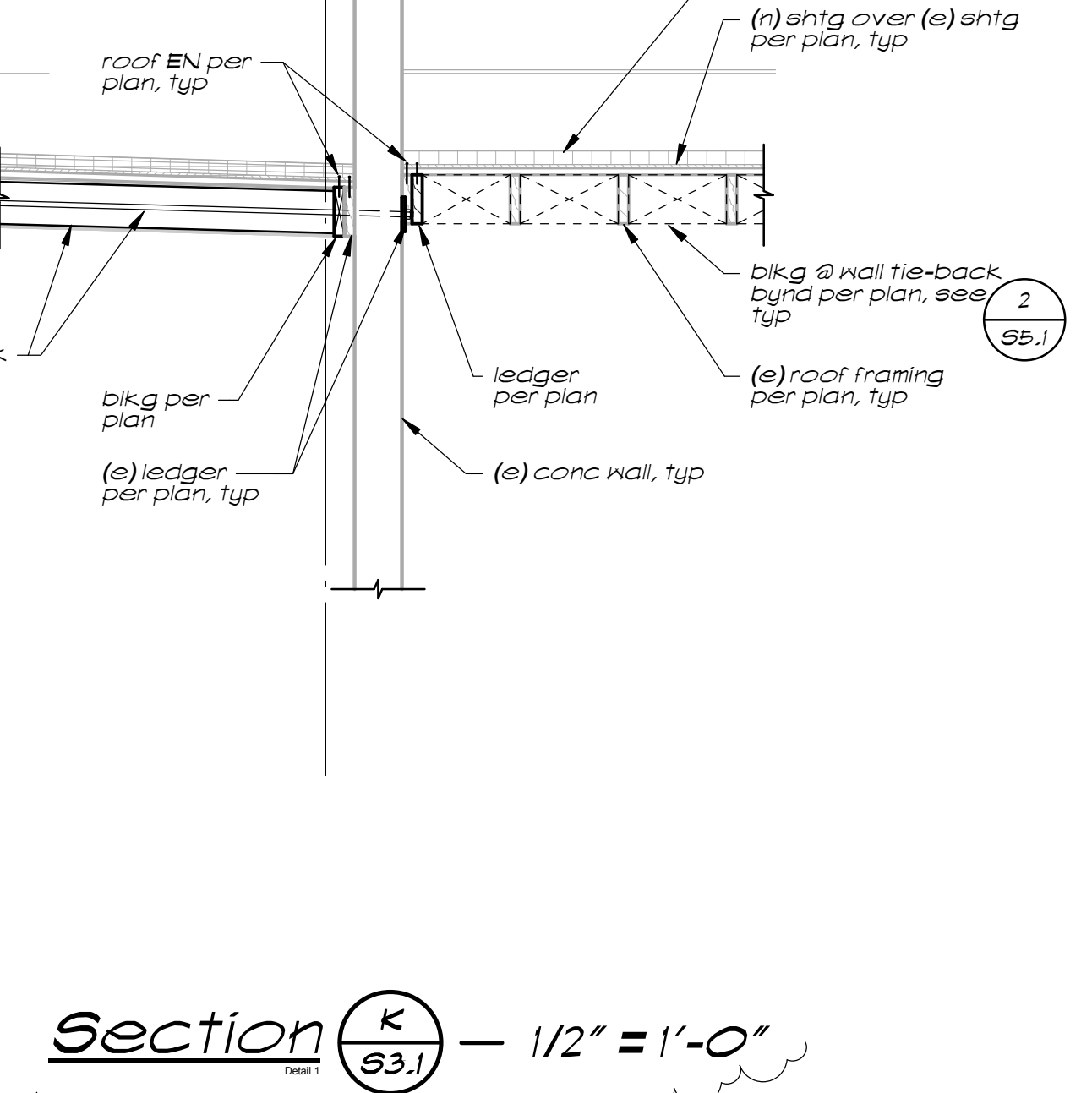
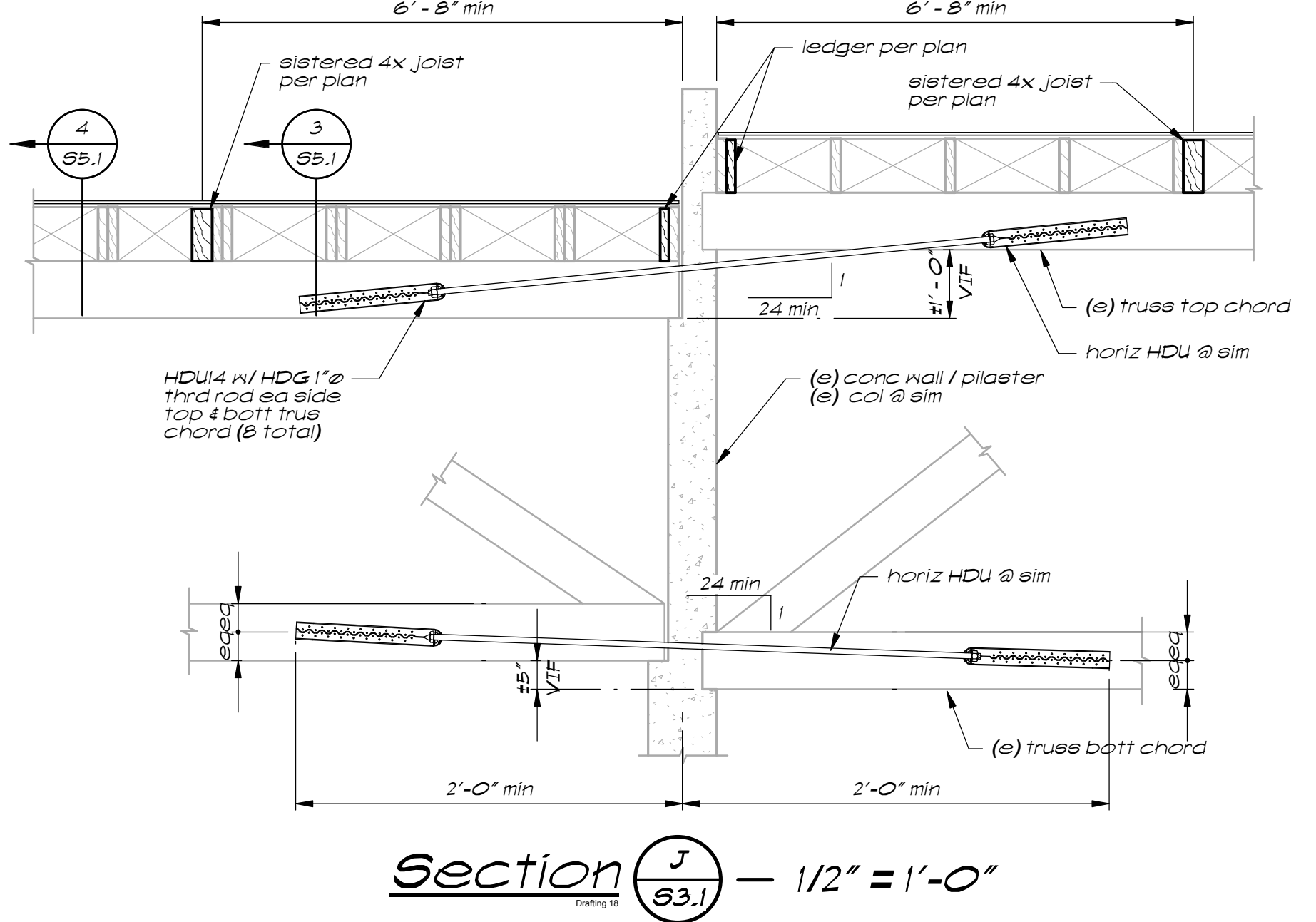
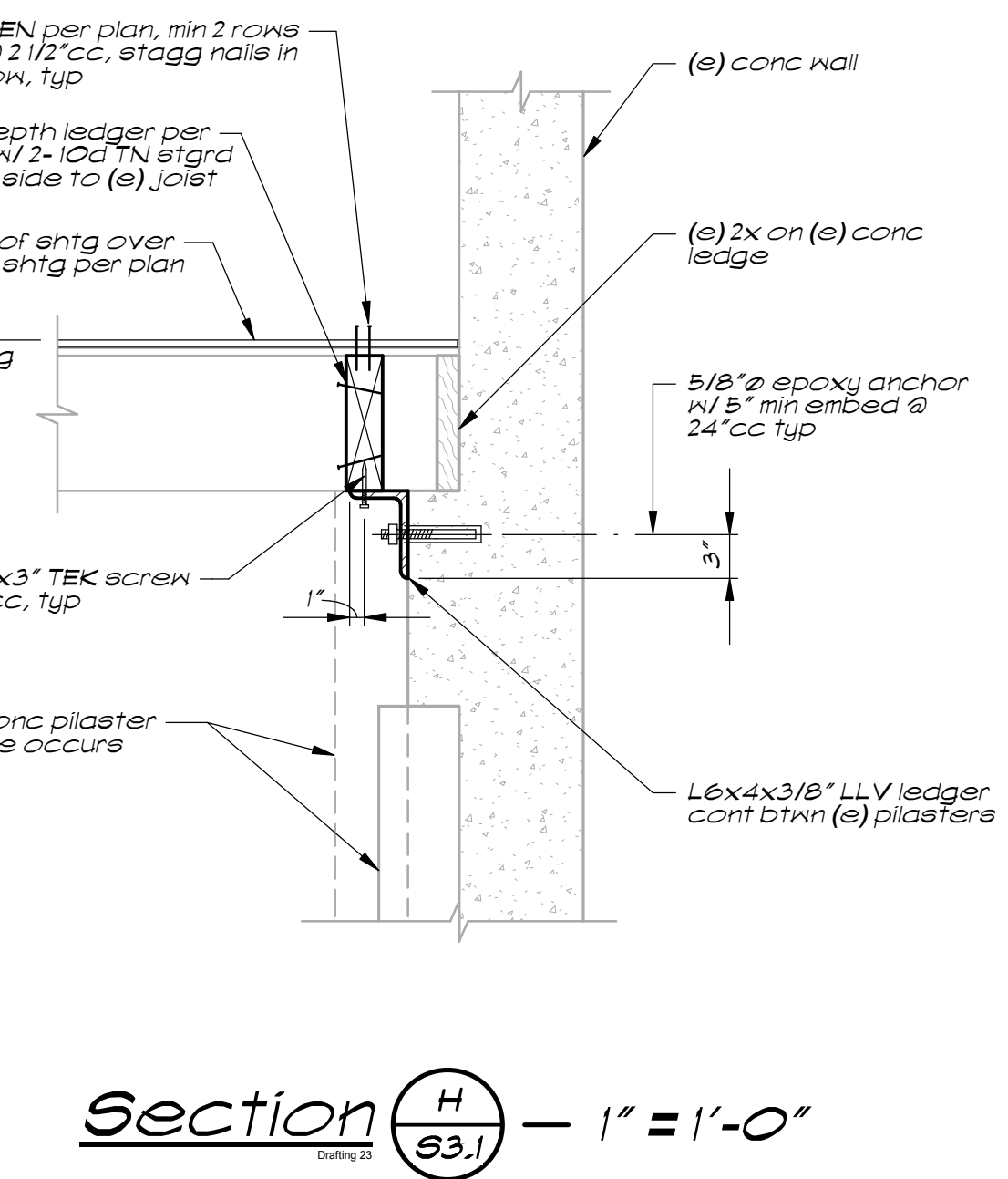
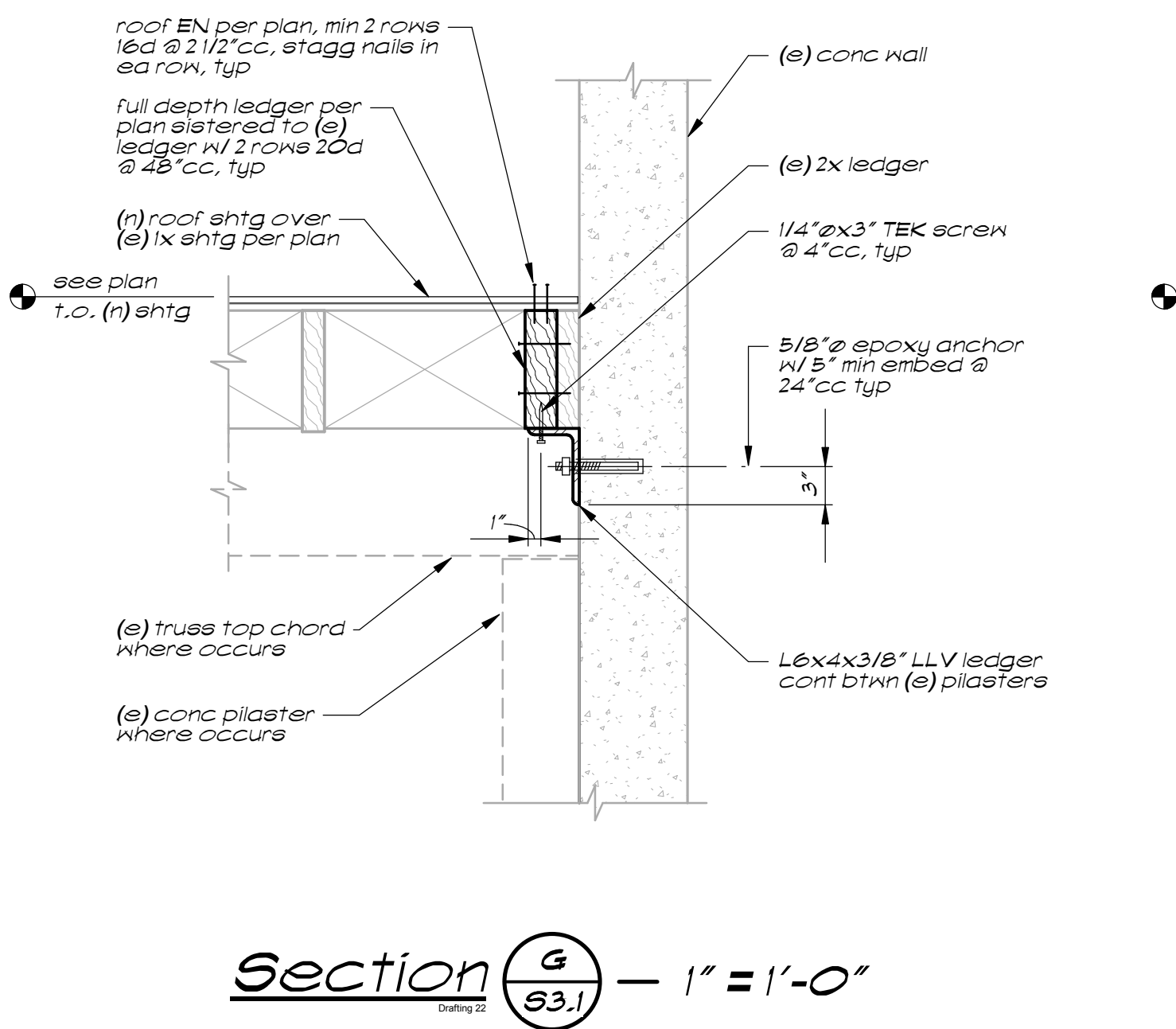
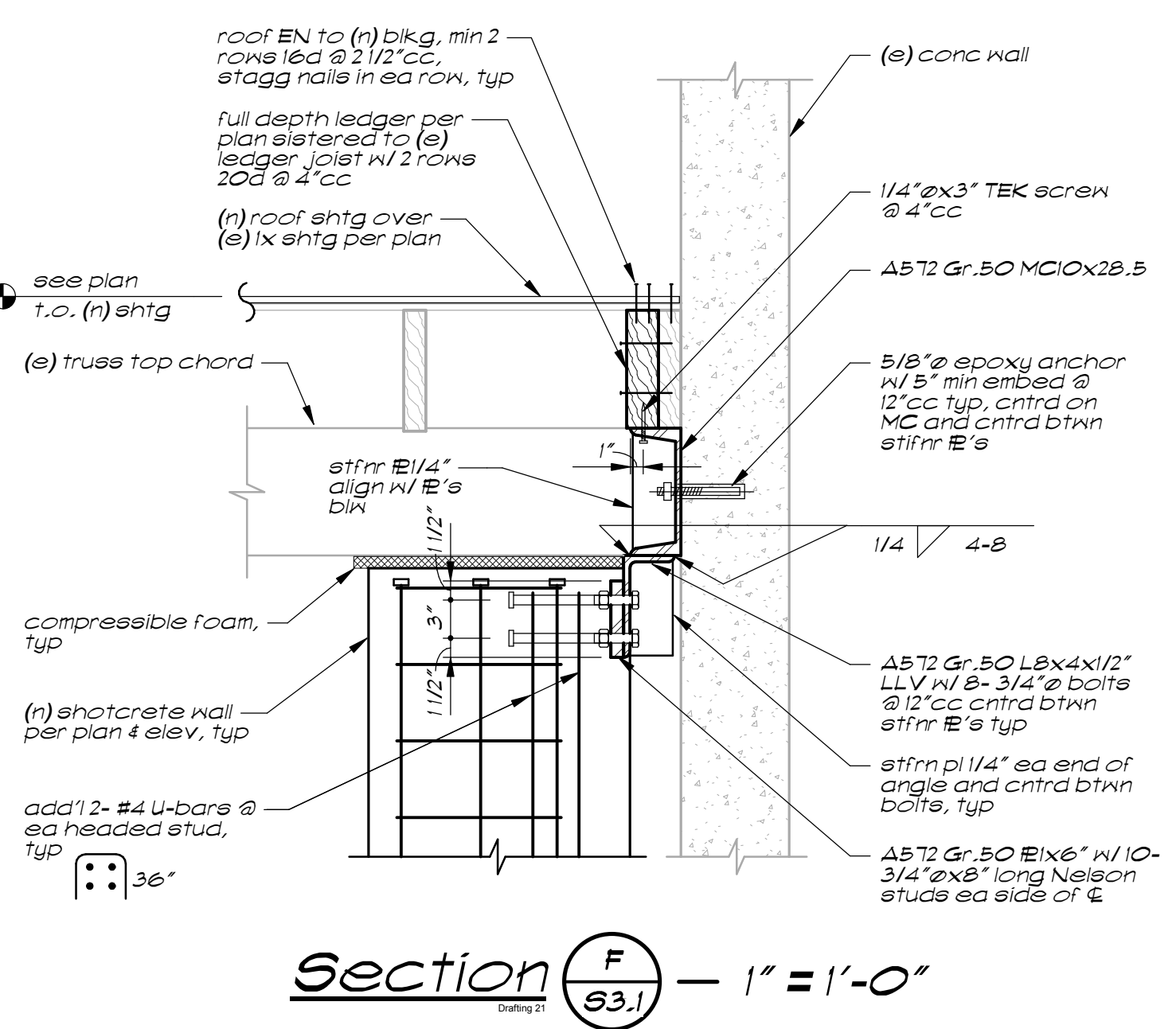
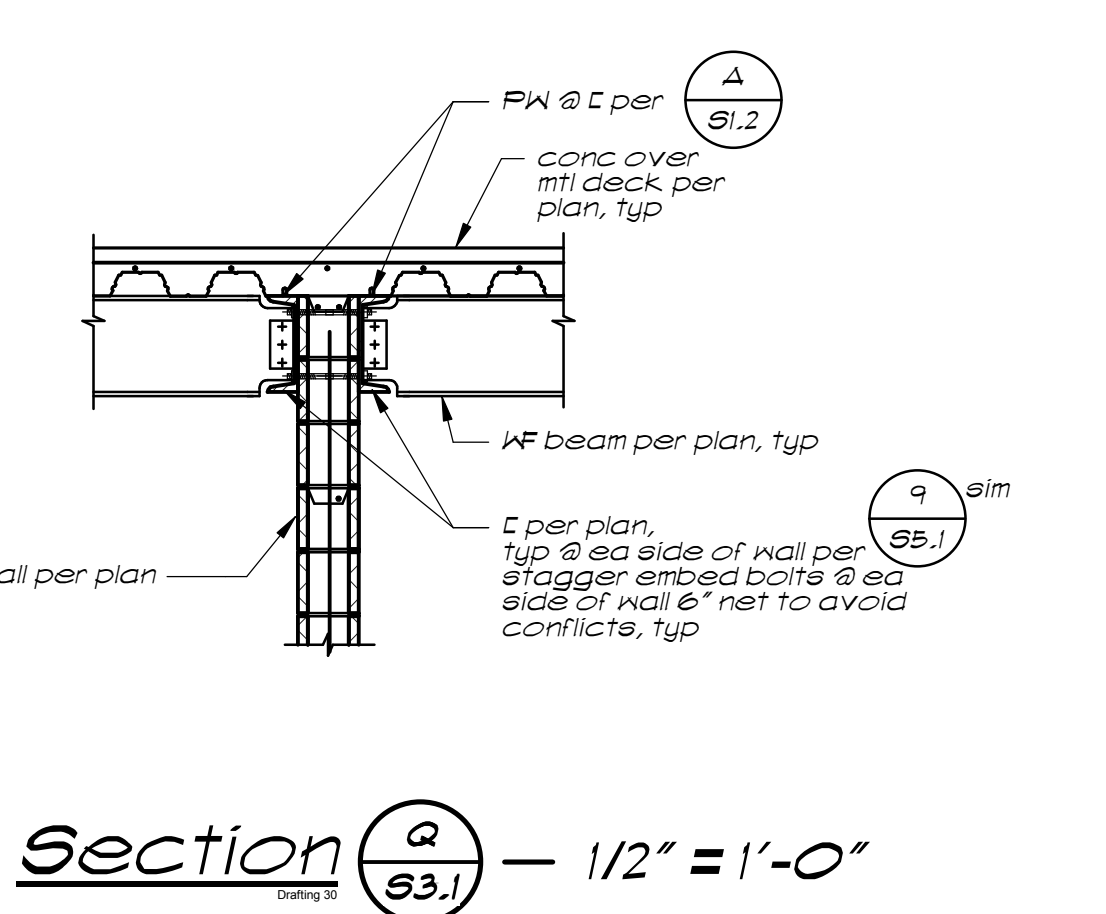
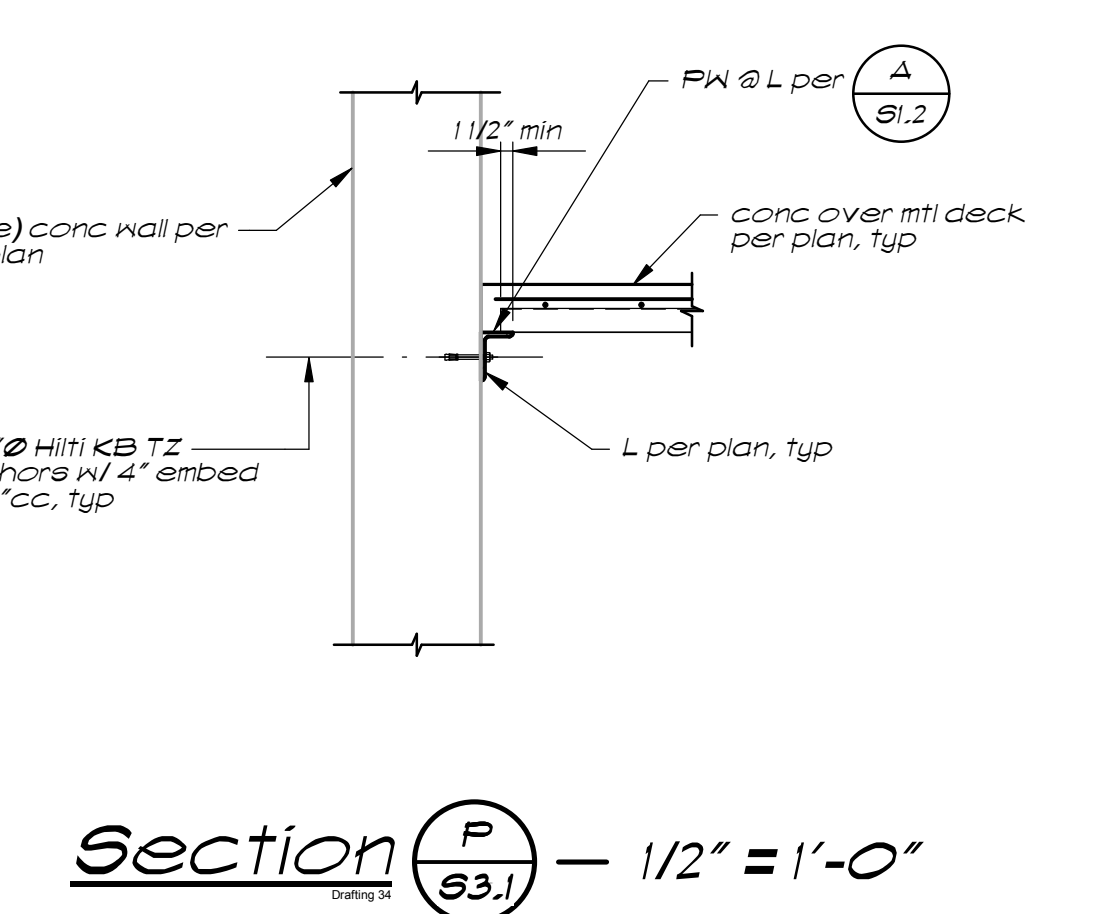
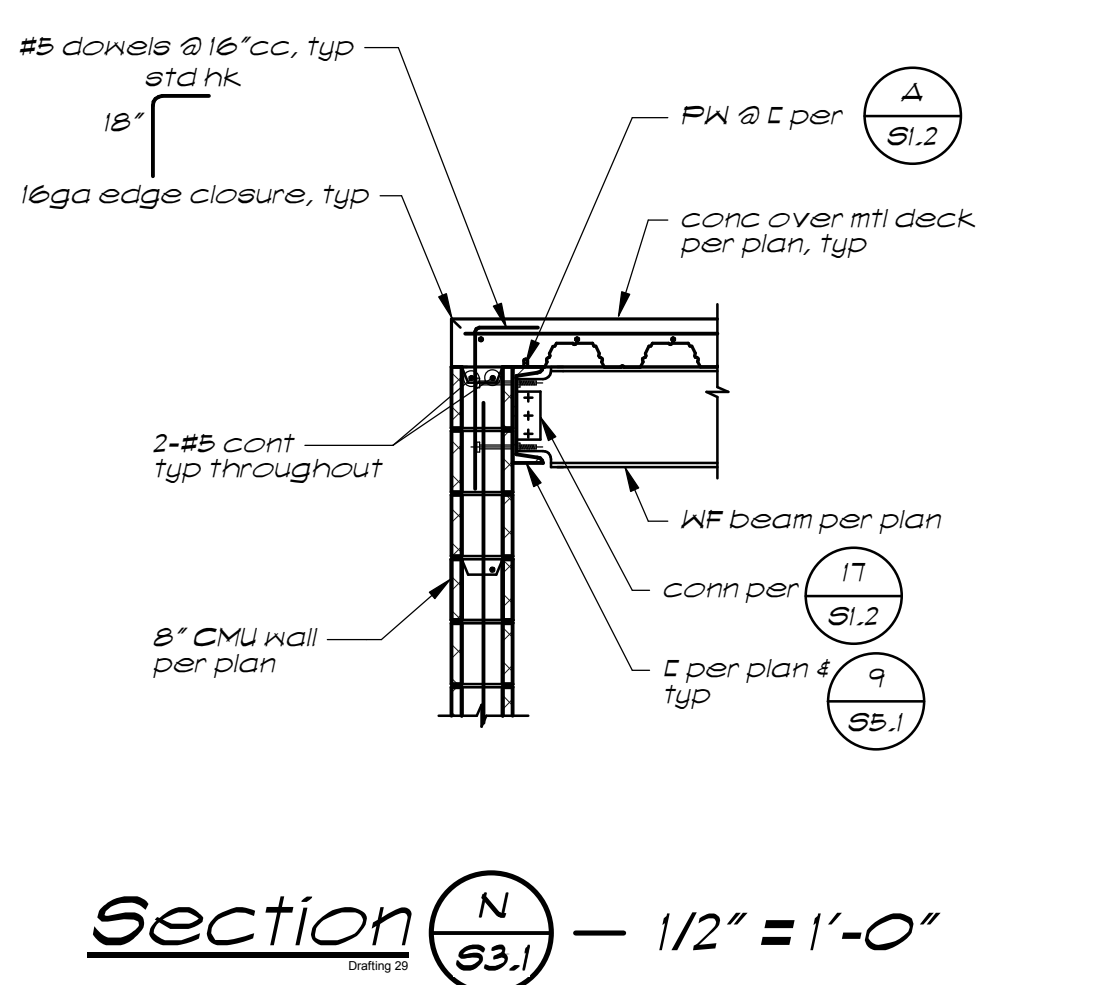
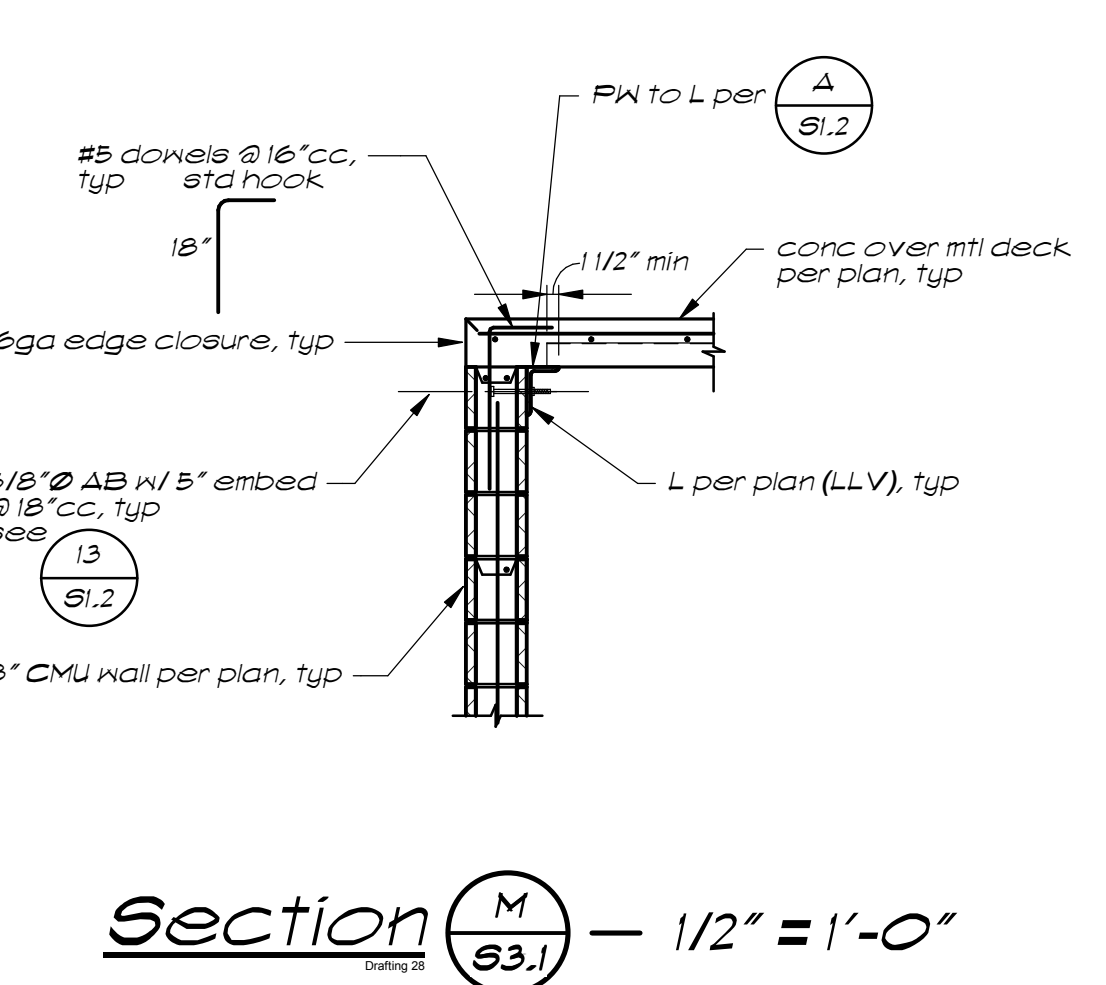
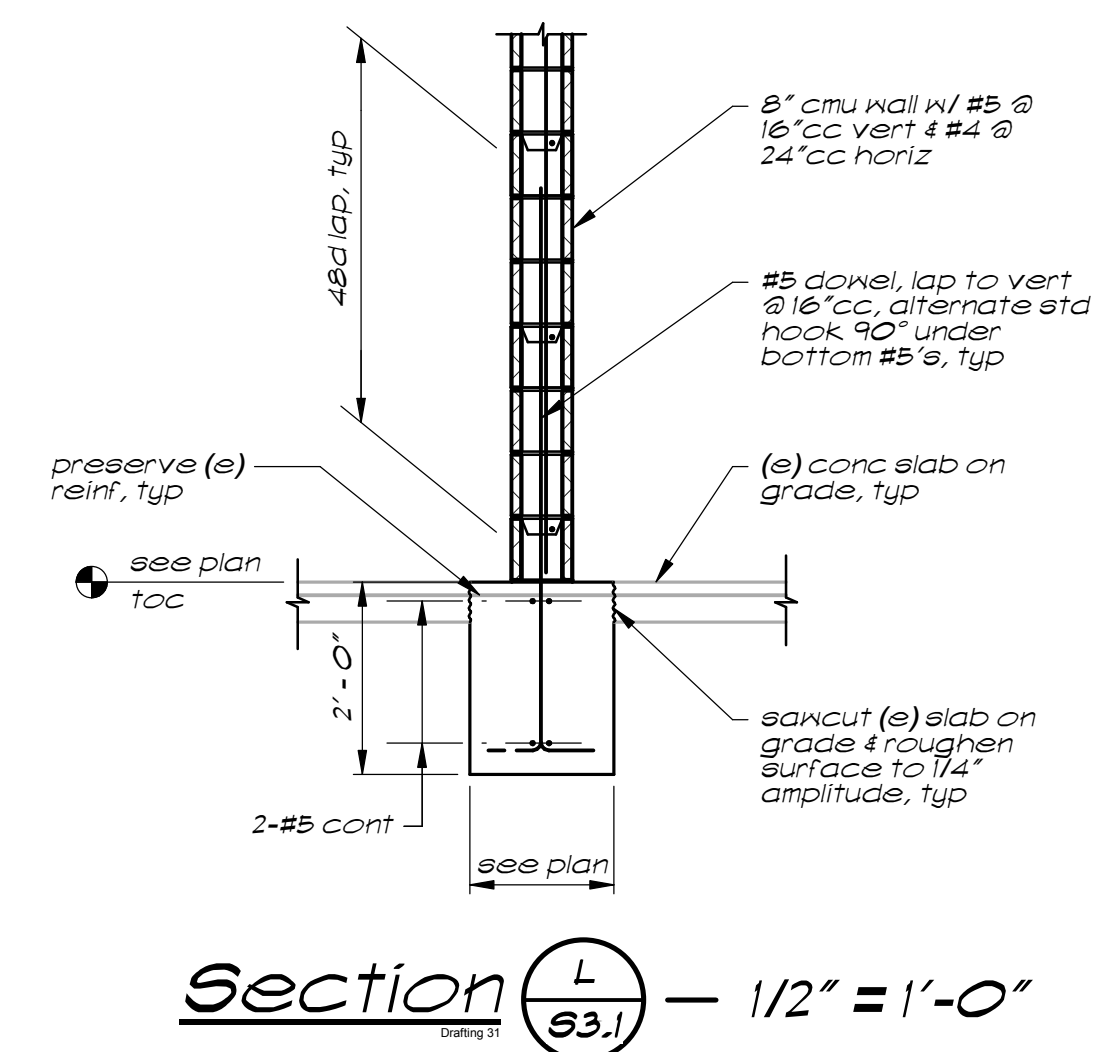


Partial Plan 1-S2.2 - 1/4" = 1'-0"

- Roof Framing Plan Notes:**
1. Verify all building dimensions and elevations w/ Arch'd drawings. Notify the Architect immediately if there are any conflicts w/ dimensions shown.
  2. Dimensions shown are to face of block or face of nail or block end.
  3. See sheets S1.1 thru S1.5 for General Notes 4 Typical Details which are applicable to all drawings and.
  4. Separation joint dimensions shown on plan indicates minimum clear distance required between adjacent big elements, where big truss/rafter protection occur, dimension shall be maintained thru those elements.
  5. Indicates (e) roof opening.
  6. Indicates solid grouted conc masonry nail. See foundation plan for add'l info.
  7. Indicates concrete nail. See foundation plan for add'l info.
  8. Splices at CMST straps shall be lapped a minimum of 6" & nails driven thru both.
  9. Install straps over entg. Strap nails may replace typ entg nailing.
  10. Indicates top of framing elevation (i.e. underside of roof entg) above reference top of concrete (HC-0') typ. unc.
  11. Indicates top of nail elevation above ref top of concrete (HC-0'), i.e. top of DS/E, typ. unc.
  12. Indicates wood post, No. 1 DF @ 6" @ 6" nominal nails unc. No. 2 DF 4x4 @ 4" nominal nails unc.
  13. Indicates extent of blocked diaphragm.
  14. Refer to Arch'd plans for information regarding vent openings at blocking and bracing.
  15. Indicates Mech) unit. The general contractor shall coordinate all Mech) equip for size & location with other trades & the structural drawings. Unit sizes & locations shown are approximate.
  16. Indicates Simpson strap per plan.

**Roof Framing Plan - 1/8" = 1'-0"**

**THE INTERSECTION  
COMMERCIAL SHELL  
COMMERCIAL BUILDING COLD SHELL  
IMPROVEMENTS**  
3800 SAN PABLO AVENUE  
EMERYVILLE, CA



NO.	DATE	ISSUES & REVISIONS	BY
06/29/2015	BUILDING DEPT SUBMITTAL		
1.	09/29/2015	BUILDING DEPT RESUBMITTAL	
2.	11/3/2015	BUILDING DEPT RESUBMITTAL 2	

NO. DATE ISSUES & REVISIONS BY

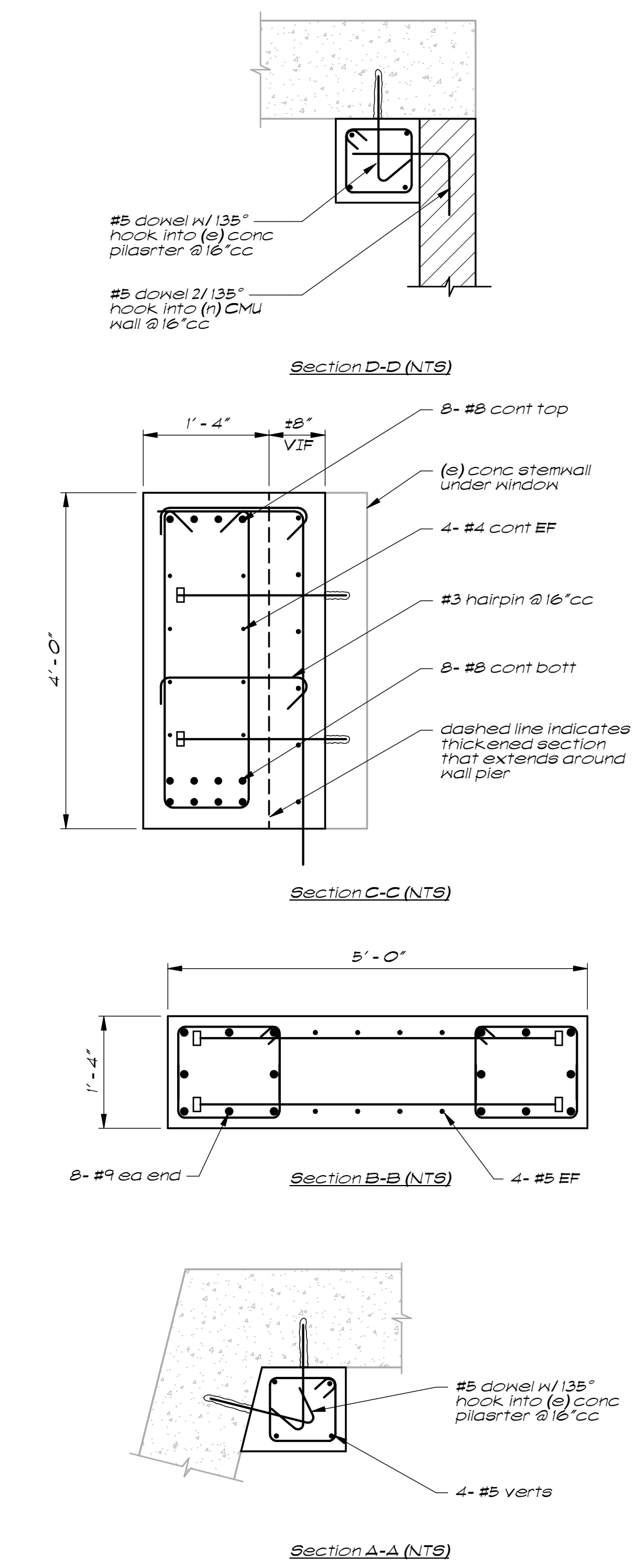
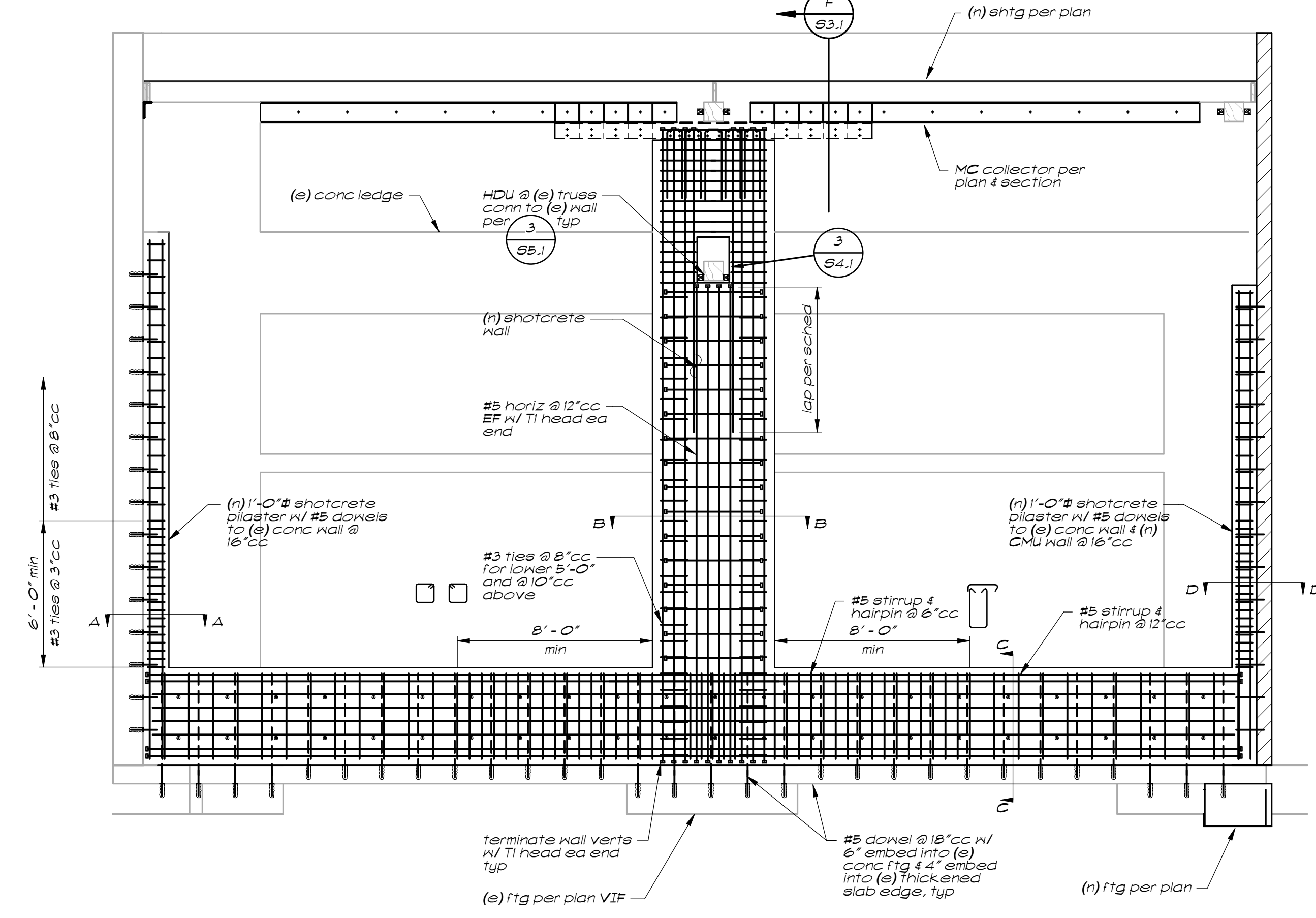
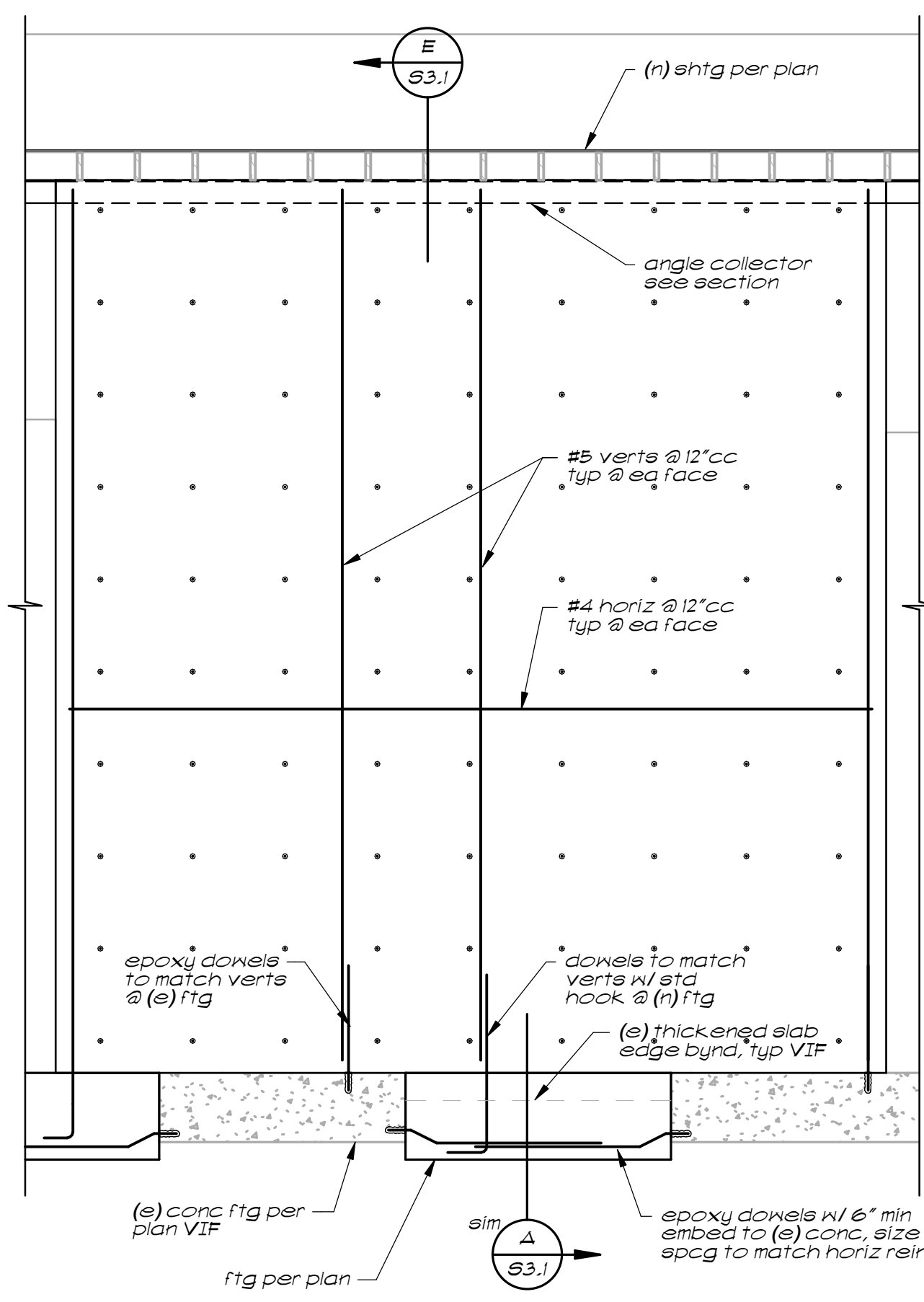
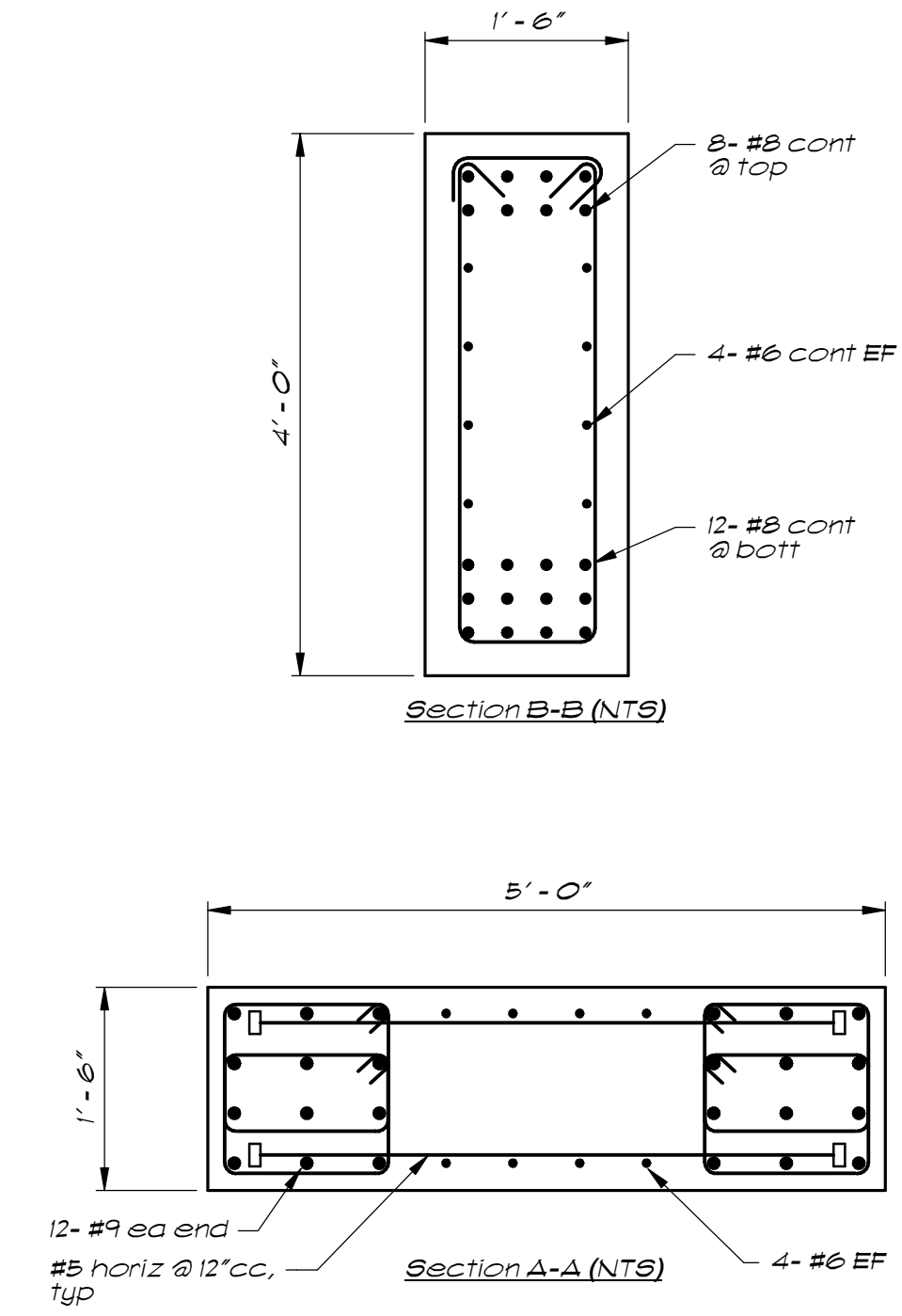
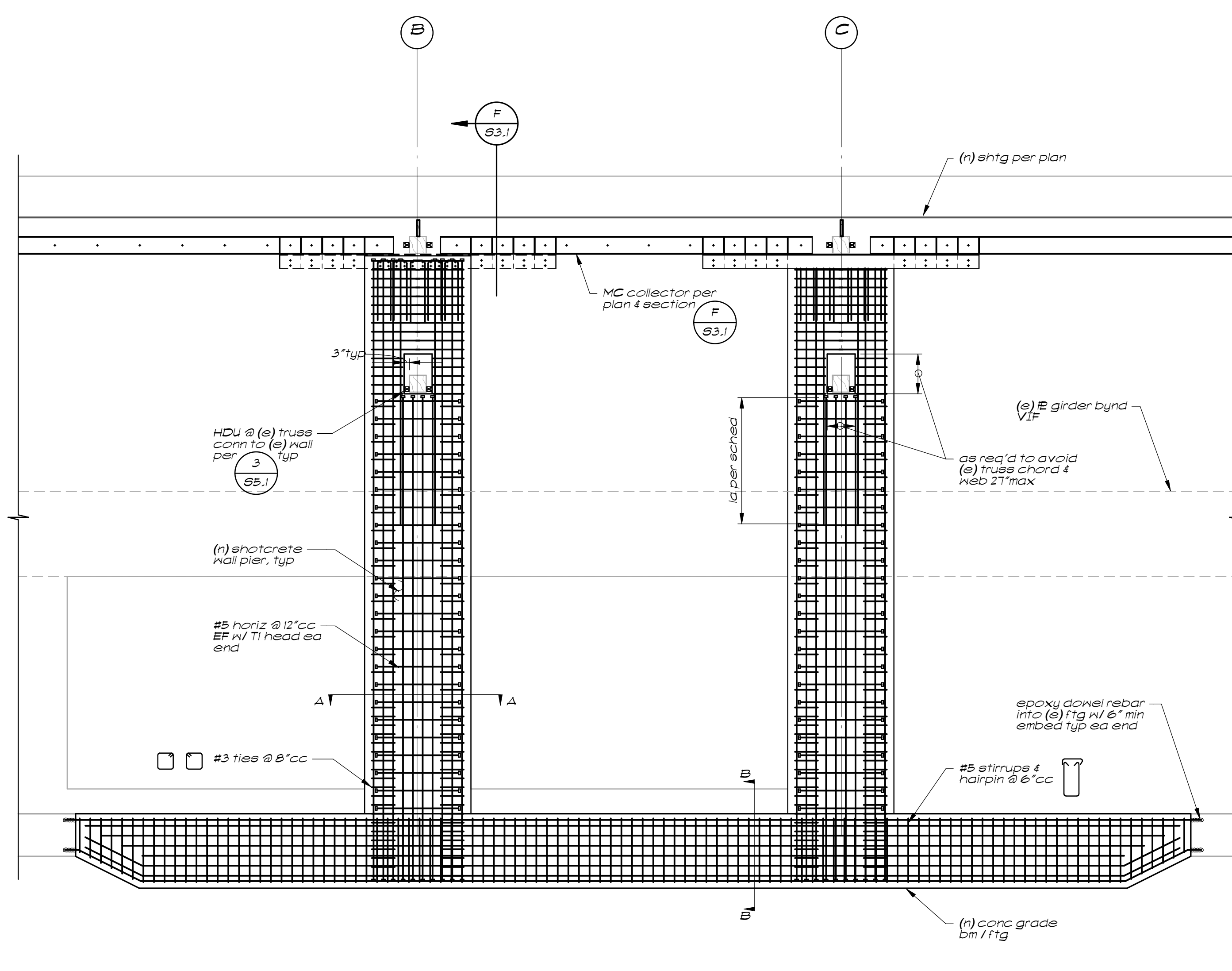
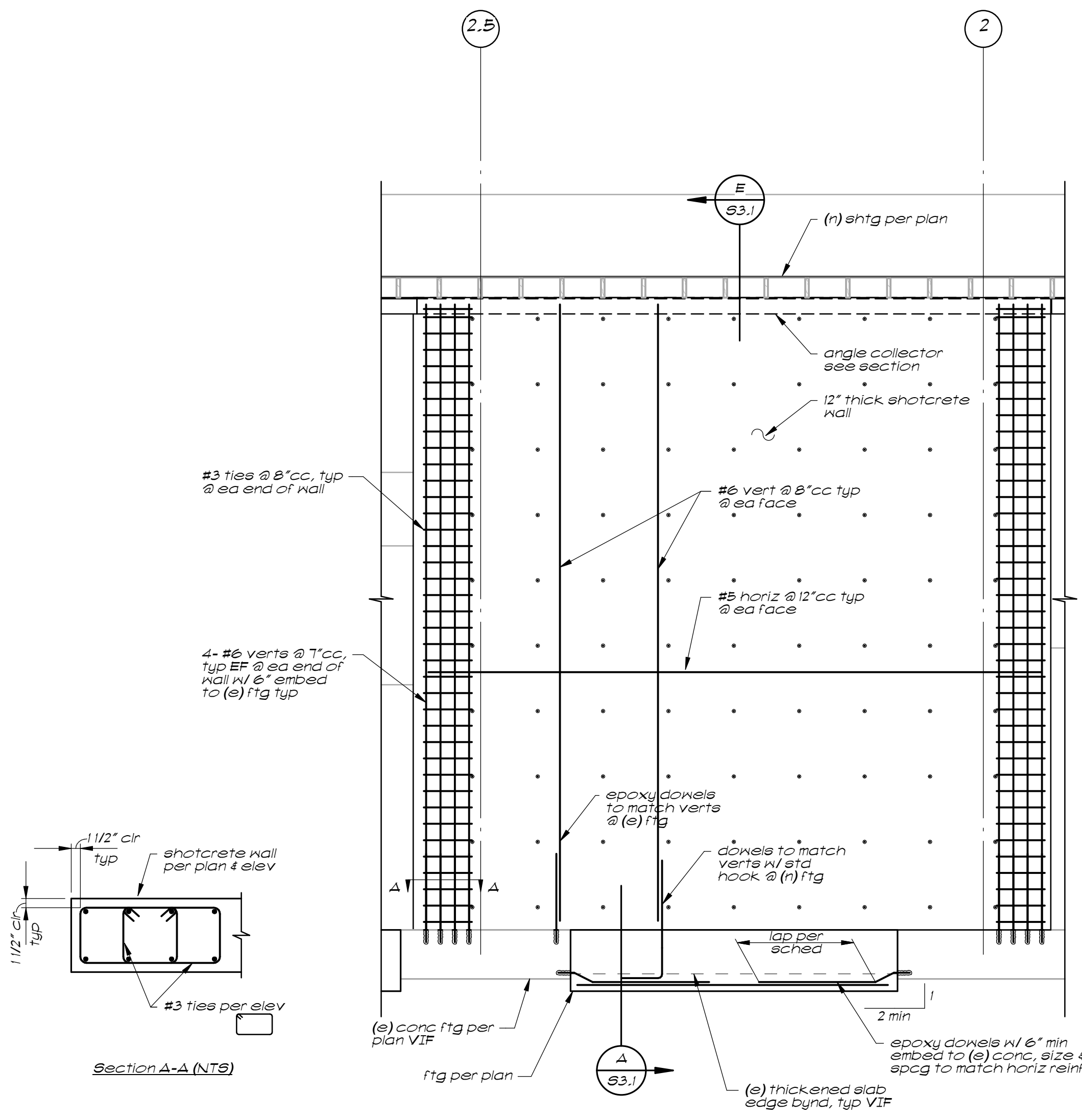

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DRAWN BY: Author  
 PROJECT NUMBER: 2015-001400  
 SHEET ISSUE DATE: 06/24/15  
 SHEET TITLE:

Elevations

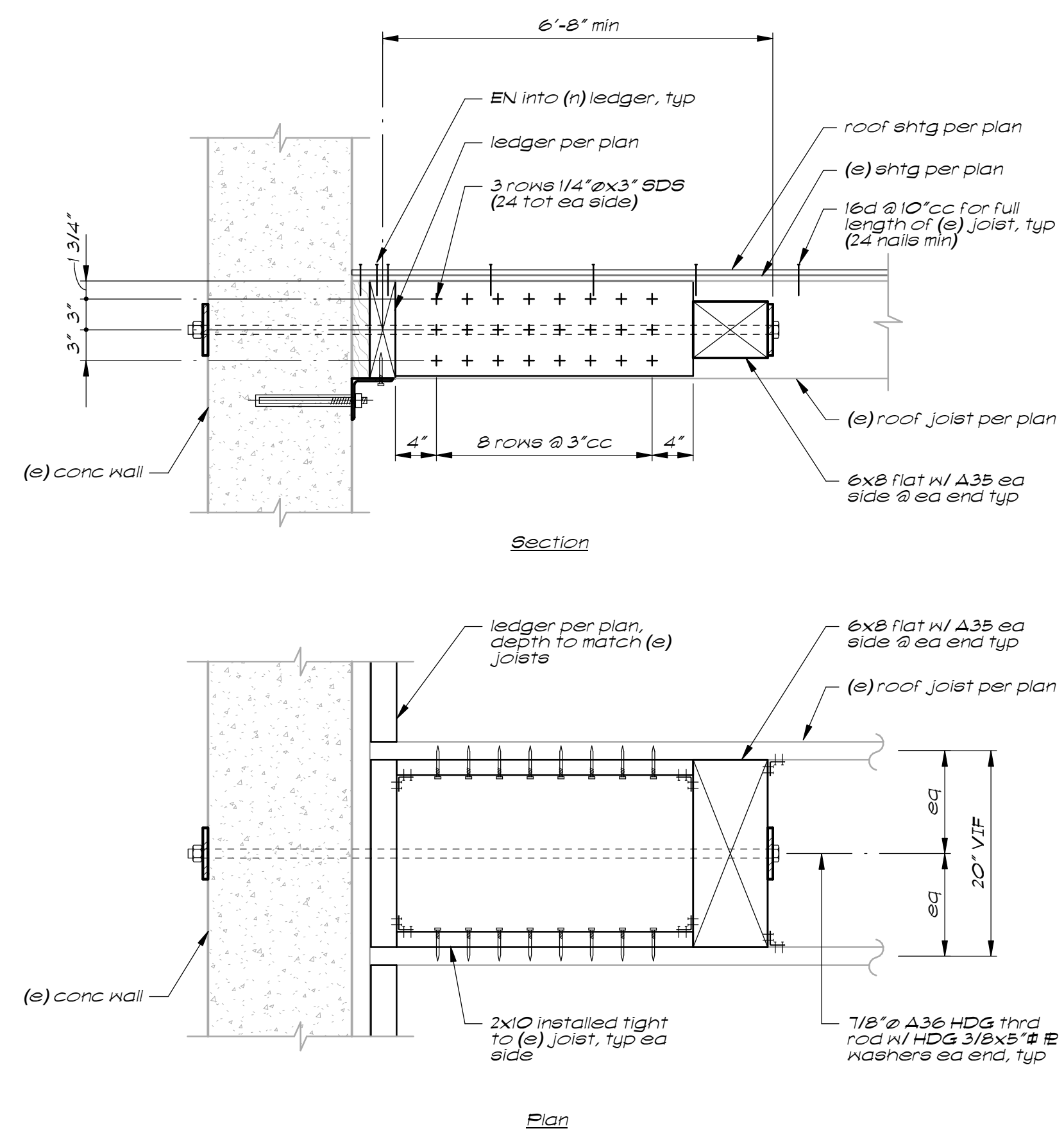
SHEET NUMBER  
**S4.1**

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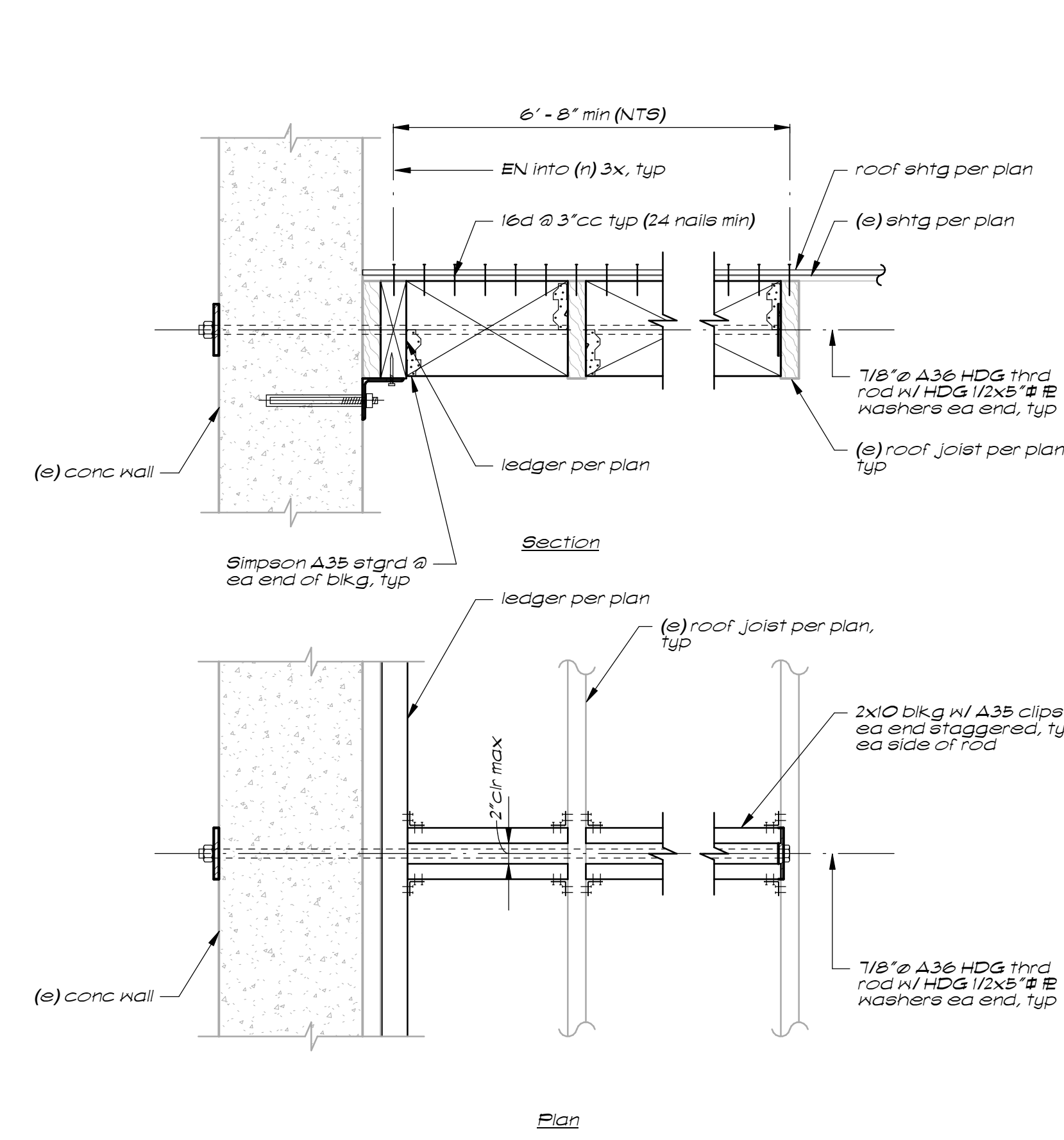




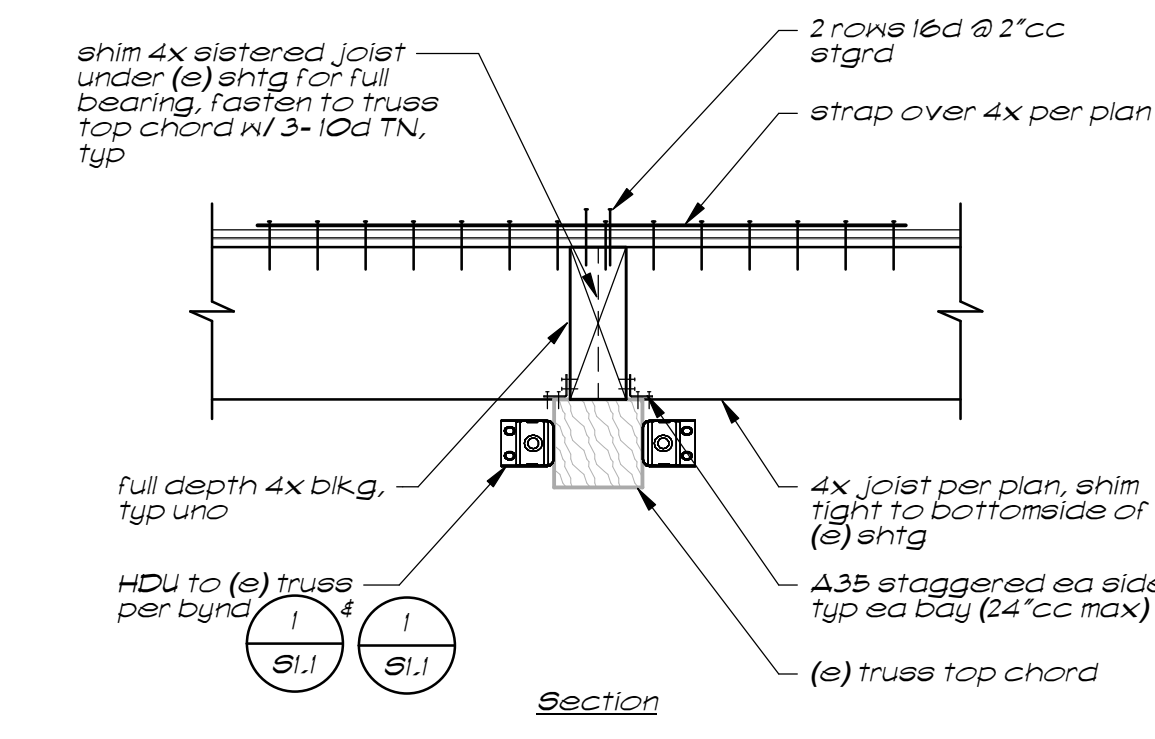
NO.	DATE	ISSUES & REVISIONS	BY
	06/29/2015	BUILDING DEPT SUBMITTAL	
1.	09/29/2015	BUILDING DEPT RESUBMITTAL	
2.	11/3/2015	BUILDING DEPT RESUBMITTAL 2	



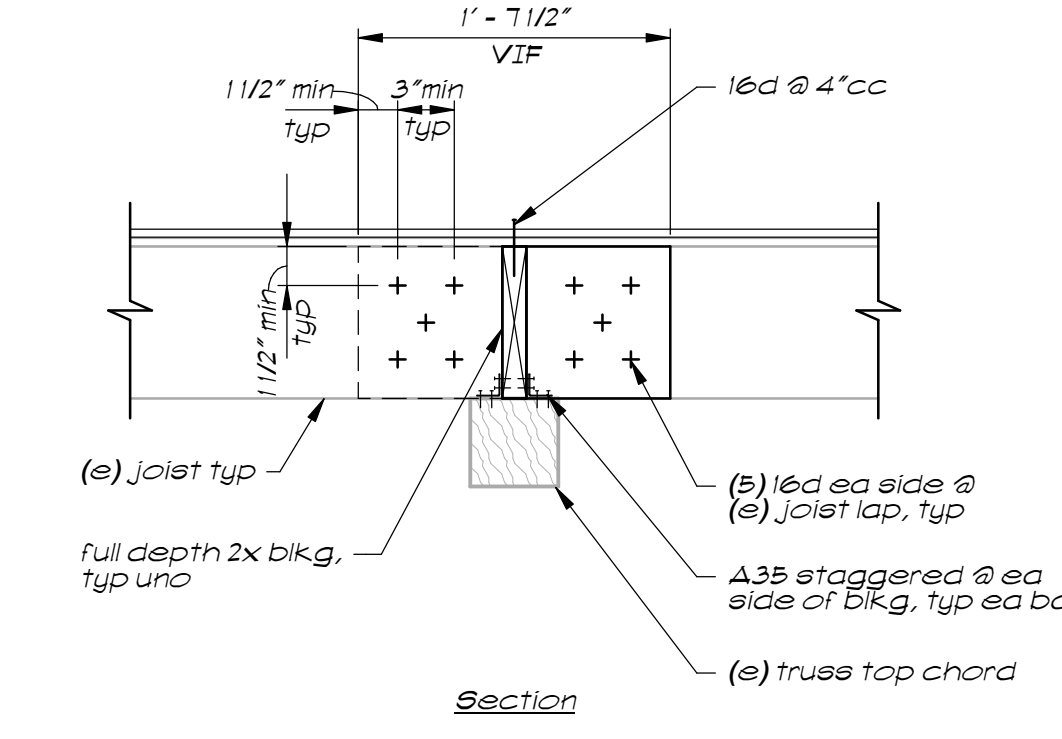
**Detail 1** (S5.1) - 1" = 1'-0"



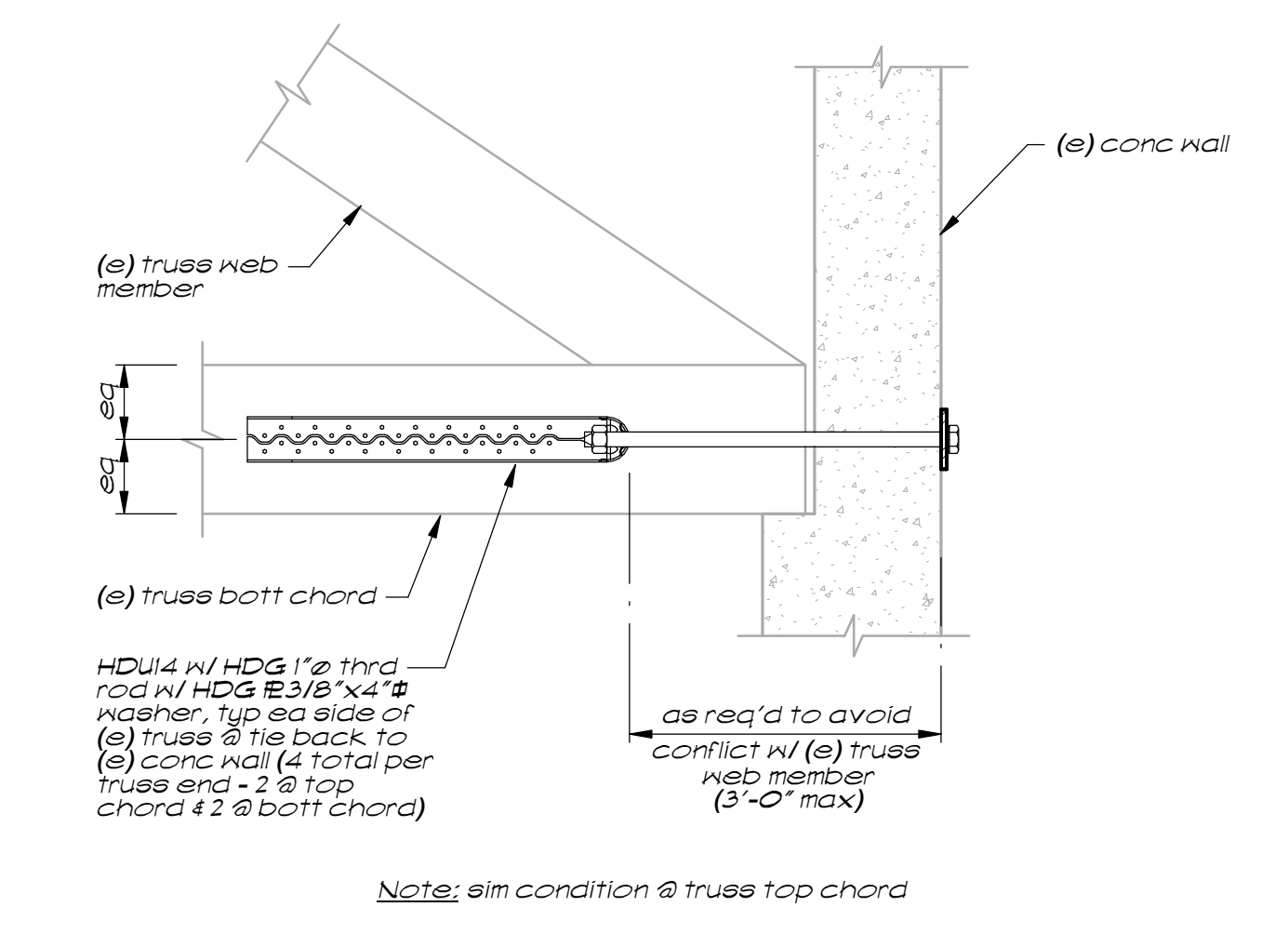
**Detail 2** (S5.1) - 1" = 1'-0"



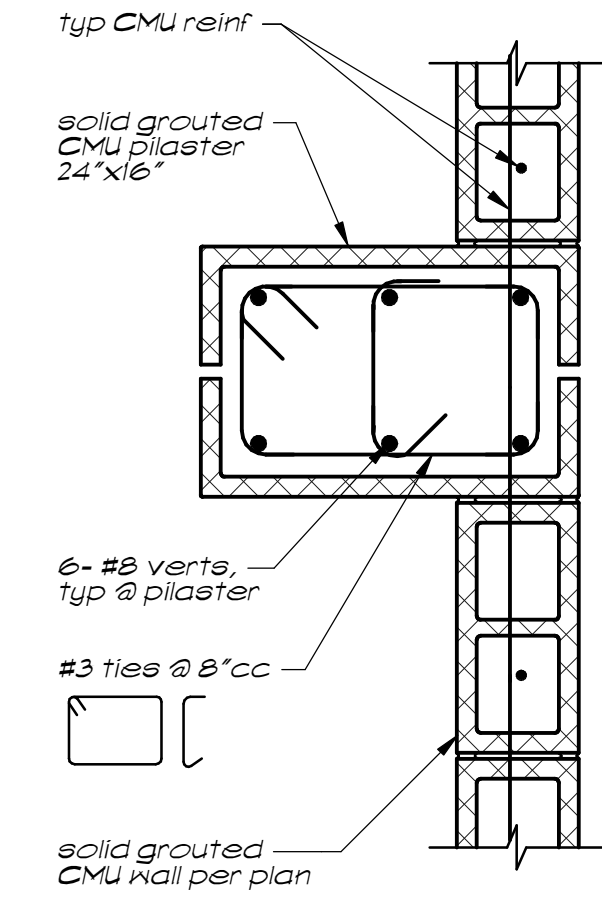
**Detail 3** (S5.1) - 1" = 1'-0"



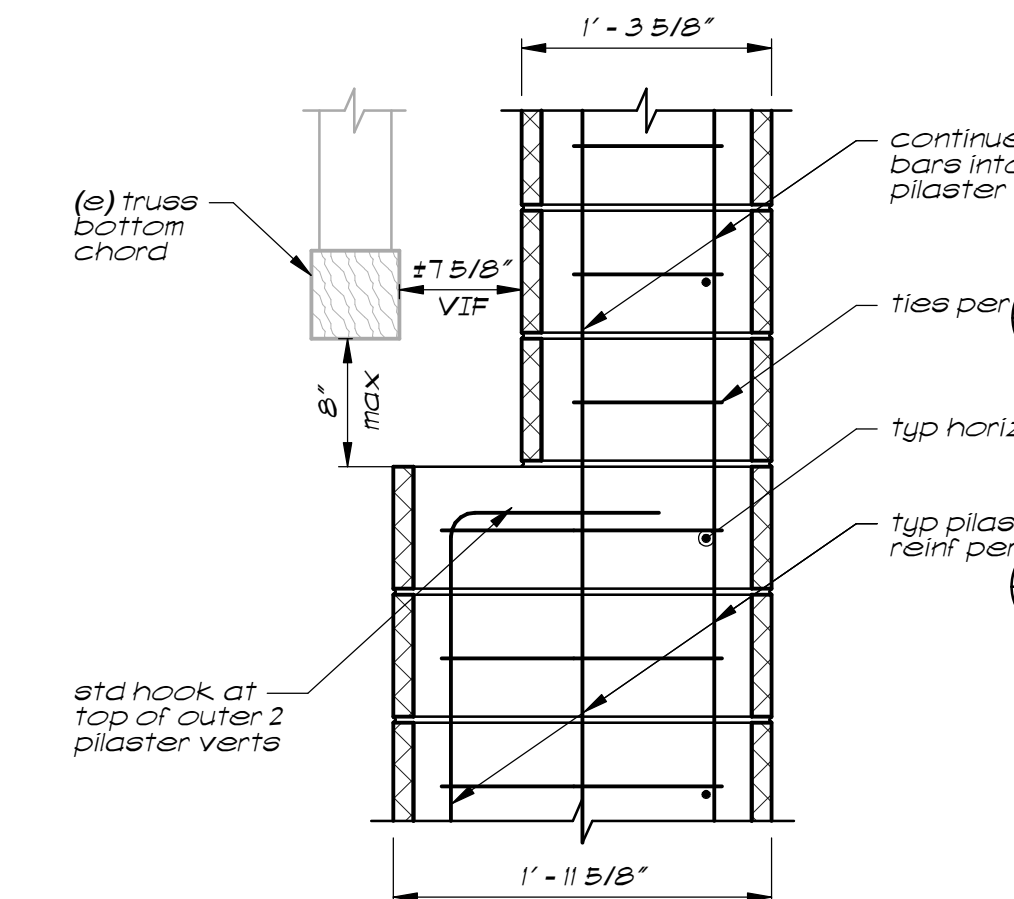
**Detail 4** (S5.1) - 1" = 1'-0"



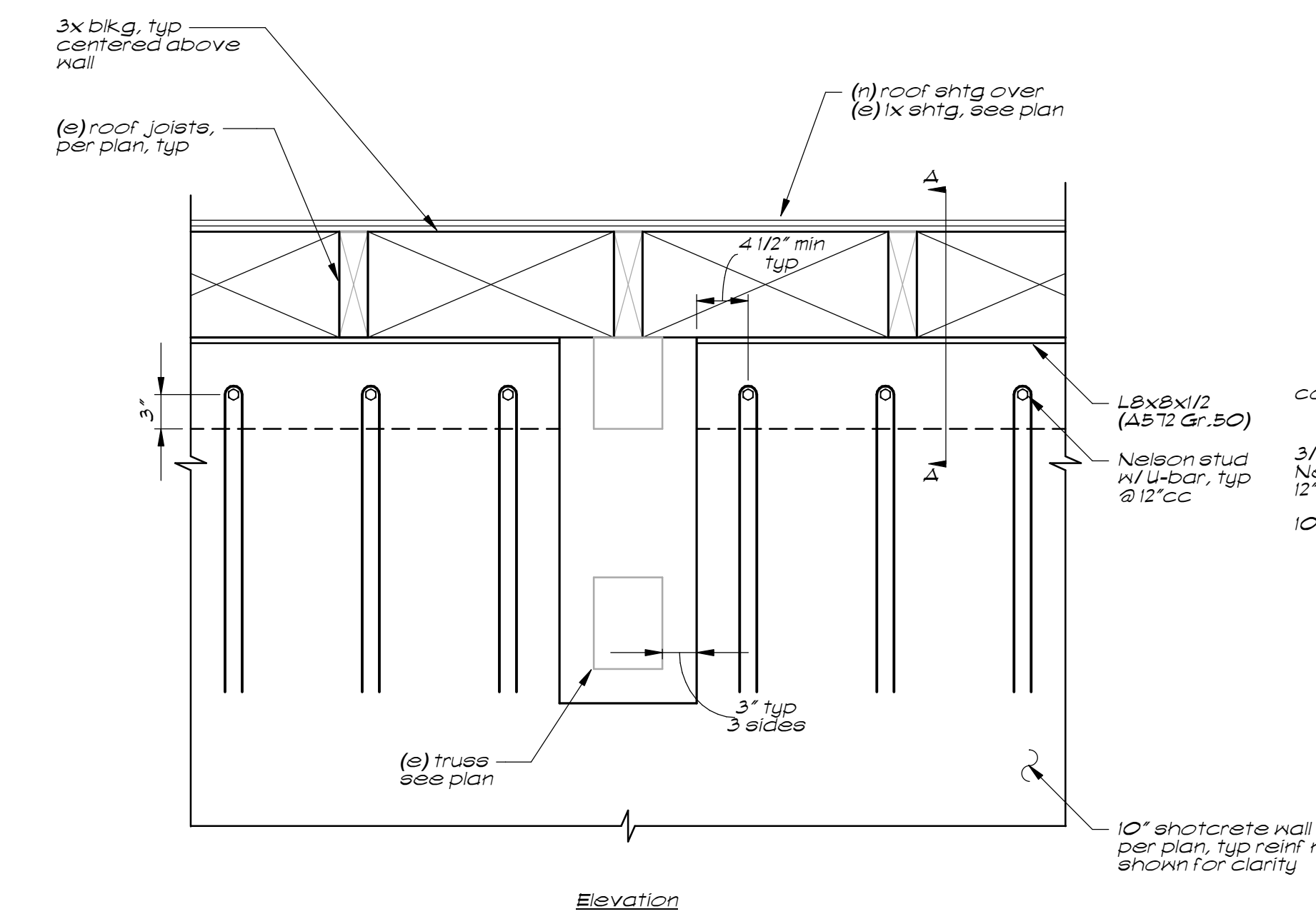
**Detail 5** (S5.1) - 1" = 1'-0"



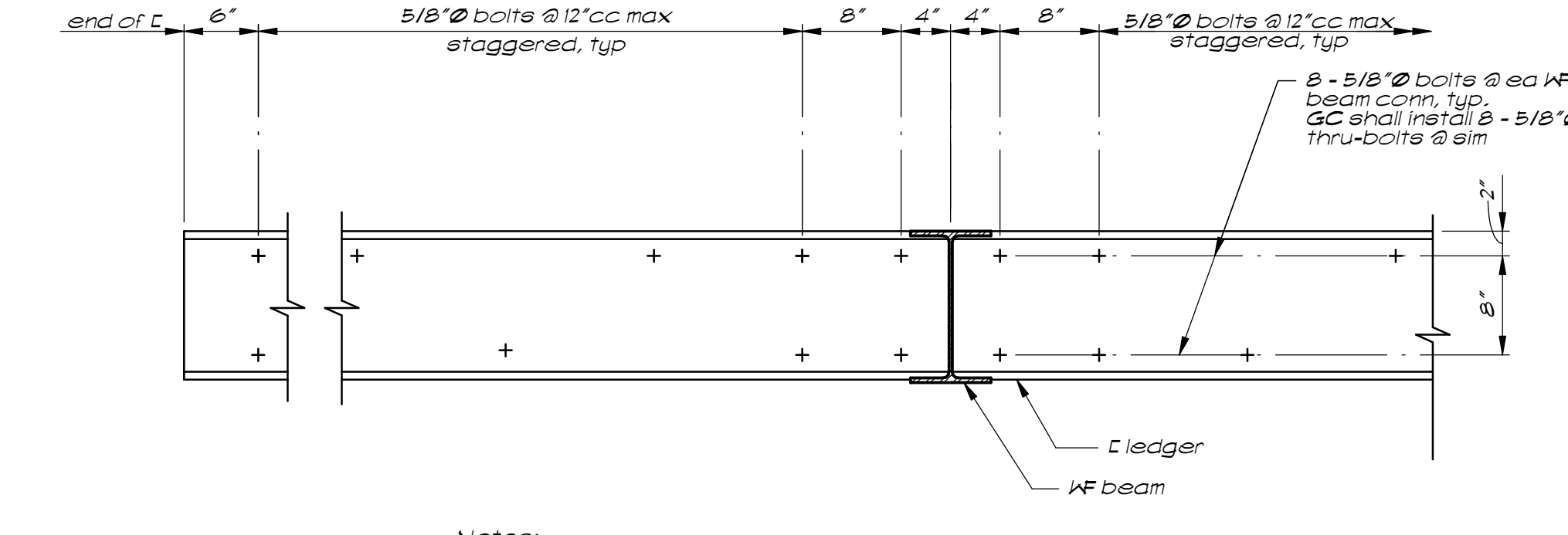
**Detail 6** (S5.1) - 1" = 1'-0"



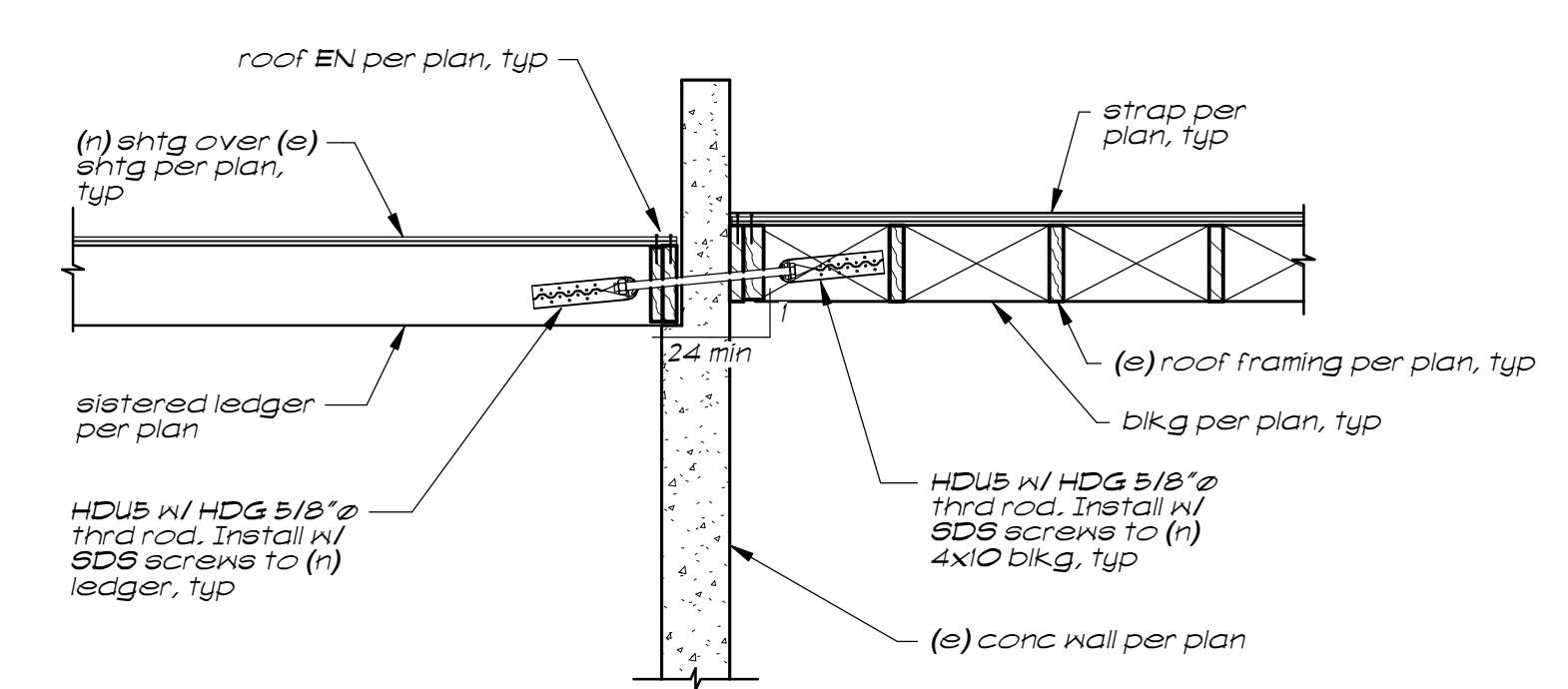
**Detail 7** (S5.1) - 1" = 1'-0"



**Detail 8** (S5.1) - 1" = 1'-0"



**Detail 9** (S5.1) - 1" = 1'-0"



**Detail 10** (S5.1) - 1/2" = 1'-0"