





**SPECIAL STRUCTURAL INSPECTIONS:**

1. IN ACCORDANCE WITH IBC SECTION 1704. AS NOTED BELOW, TESTING AND INSPECTION SHALL BE BY AN INDEPENDENT TESTING/INSPECTION FIRM UNDER THE SUPERVISION OF A LICENSED ENGINEER EMPLOYED BY THAT FIRM. THIS ENGINEER SHALL BE DEEMED THE DESIGNATED ENGINEER OF RECORD FOR SPECIAL INSPECTIONS PERFORMED BY HIS FIRM OR HIS CONSULTANTS. INSPECTORS SHALL BE ICBO CERTIFIED AND APPROVED BY THE BUILDING OFFICIAL.

2. THE DESIGNATED ENGINEER OF RECORD FOR SPECIAL INSPECTIONS SHALL BE RESPONSIBLE FOR DEFINING THE ACTIVITIES OF THE INSPECTORS, FOR CERTIFYING THE QUALIFICATIONS OF THE INSPECTORS WITH THE BUILDING OFFICIAL, AND TO ATTEND THE PRECONSTRUCTION MEETING TO DEFINE THEIR SCOPE OF SERVICES AND THE TESTING OR TEST PROCEDURES THAT ARE REQUIRED AS OUTLINED IN THE INTERNATIONAL BUILDING CODE.

3. SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE LOCAL DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY SECTION 1110 OF THE INTERNATIONAL BUILDING CODE.

4. CONCRETE: PER SECTION 1705.3 WITH EXCEPTIONS, THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION. ALL CONCRETE EXCEPT SLAB-ON-GRADE, SIDEWALKS, AND DRIVEWAYS. ALL SLABS REQUIRE TESTING FOR FLOOR FLATNESS AND LEVELNESS PER PROJECT SPECIFICATIONS.

8. STEEL CONSTRUCTION: SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360. SPECIAL INSPECTION FOR SEISMIC RESISTANCE SHALL BE IN ACCORDANCE WITH AISC 341 AND SHALL COMPLY WITH IBC SECTION 1705.12. PROVIDE INSPECTION PER IBC SECTION 1704.2.5 FOR STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES FABRICATED ON THE PREMISES OF A FABRICATOR'S SHOP. THESE INSPECTIONS SHALL BE AT THE CONTRACTOR'S EXPENSE IF THE FABRICATOR IS NOT AN APPROVED FABRICATOR PER IBC SECTION 1704.2.5.1.

7. WELDING: WELDING INSPECTION SHALL BE IN COMPLIANCE WITH AWS D1.1, THE BASIS FOR WELDING INSPECTOR QUALIFICATIONS SHALL BE AWS D1.1. PROVIDE SPECIAL INSPECTION IN ACCORDANCE WITH AISC TABLE N5.4-1 THROUGH TABLE N5.4-3.

8. HIGH-STRENGTH BOLTING: INSTALLATION OF HIGH-STRENGTH BOLTS SHALL BE PERIODICALLY INSPECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. PROVIDE SPECIAL INSPECTION IN ACCORDANCE WITH AISC TABLE N5.6-1 THROUGH TABLE N5.6-3.

9. INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT SHALL BE PER AISC TABLE N6-1.

10. STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL SHALL BE PER IBC SECTION 1705.2.2 AND REQUIREMENTS OF SDI QA/QC, AND 1705.2.3 FOR OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.

11. STRUCTURAL MASONRY: MASONRY CONSTRUCTION SHALL BE INSPECTED AND VERIFIED IN ACCORDANCE WITH TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530/ASCE 6 AS FOLLOWS:

a. ENGINEERED MASONRY IN RISK CATEGORY I, II, OR III STRUCTURES: THE MINIMUM SPECIAL INSPECTION PROGRAM FOR MASONRY SHALL COMPLY WITH LEVEL B QUALITY ASSURANCE, TABLE 4.

b. ENGINEERED MASONRY IN RISK CATEGORY IV STRUCTURES: THE MINIMUM SPECIAL INSPECTION PROGRAM FOR MASONRY SHALL COMPLY WITH LEVEL C QUALITY ASSURANCE, TABLE 5.

12. GRADING, EXCAVATION AND FILLING: PER SECTION 1705.6. SEE CIVIL DRAWINGS AND SPECIFICATION DIVISION 2.

13. SPRAY-APPLIED FIREPROOFING: PER SECTION 1705.14. SEE ARCHITECTURAL DRAWINGS FOR ALL FIREPROOFING METHODS AND REQUIREMENTS.

14. FIRE RESISTANT PENETRATIONS AND JOINTS: PER SECTION 1705.17.

15. NONBEARING EXTERIOR STUD WALLS AND EXTERIOR VENEER: PER SECTION 1705.12.5 WITH EXCEPTIONS.

16. EXPANSION BOLT, SCREW ANCHOR AND ADHESIVE ANCHOR INSTALLATION TO VERIFY INSTALLATION IN ACCORDANCE WITH ICBO REPORTS NOTED PREVIOUSLY OR APPROVED EQUAL.

17. HEADED CONCRETE SHEAR CONNECTORS: INSPECTED AND TESTED PER AMERICAN WELDING SOCIETY CODE AWS D1.1.

18. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR THE INSTALLATION OF ALL STORM SHELTER DOOR, WINDOW AND PROTECTIVE OPENING DEVICES, INCLUDING THE ANCHORAGE TO WALL/ROOF.

19. THE INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

20. THE INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS ON THE WORK TO THE BUILDING OFFICIAL AND TO THE ENGINEER. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND, IF UNCORRECTED, TO THE ENGINEER AND THE BUILDING OFFICIAL.

21. THE TESTING/INSPECTION FIRMS ENGINEER SHALL COMPLETE, SIGN AND SEAL A FINAL REPORT CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

22. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE CONSTRUCTION SCHEDULE WITH THE OWNER'S SPECIAL INSPECTION REPRESENTATIVE IN A TIMELY MANNER AND SHALL NOT PROCEED WITH CONSTRUCTION OF COMPONENTS THAT MAY INTERFERE WITH THE INSPECTOR'S ABILITY TO PERFORM CODE REQUIRED INSPECTIONS. ANY COST INCURRED ASSOCIATED WITH REMOVAL OF WORK TO PERFORM INSPECTIONS WILL BE BORNE BY THE CONTRACTOR.

23. STEEL DETAILING: THE SPECIAL INSPECTOR SHALL PERFORM AN INSPECTION OF THE STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE APPROVED CONSTRUCTION DOCUMENTS, SUCH AS BRACING, STIFFENING, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.

TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION					IBC REFERENCE
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD		
1. Inspect reinforcement, including prestressing tendons, and verify placement	-	X	ACI 318 Ch. 20, 25.2, 25.3, 26.6, 1-26.6.3		1908.4
2. Reinforcing bar welding: a. Verify weldability of reinforcing bars other than ASTM A706 b. Inspect single-pass fillet welds, maximum 5/16", and c. Inspect all other welds	-	X	AWS D1.4 ACI 318, 26.6.4		-
3. Inspection of anchors cast in concrete	-	X	ACI 318, 17.8.2		-
4. Inspection of anchors post-installed in hardened concrete members: a. Adhesive anchors installed in horizontally or upward inclined orientations to resist sustained tension loads b. Mechanical anchors and adhesive anchors not defined in 4-a	X	-	ACI 318, 17.8.2.4		-
5. Verify use of required design mix	-	X	ACI 318 Ch. 19, 26.4.3, 26.4.4		1904.1, 1904.2, 1908.2, 1908.3
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	X	-	ASTM C 172 ASTM C 31 ACI 318, 26.5, 26.12		1908.10
7. Inspection of concrete and stone placement for proper application techniques	X	-	ACI 318, 26.5		1908.6, 1908.7, 1908.8
8. Verify maintenance of specified curing temperature and techniques	-	X	ACI 318, 26.5.3, 26.5.5		1908.9
9. Inspect precast concrete for: a. Application of prestressing forces; and b. Grouting of bonded prestressing tendons in the seismic force-resisting system	X	-	ACI 318, 26.10		-
10. Inspect erection of precast concrete members	-	X	ACI 318, 26.9		-
11. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs	-	X	ACI 318, 26.11.2		-
12. Inspect formwork for shape, location, and dimensions of the concrete member being formed	-	X	ACI 318, 26.11.1, 2(b)		-

For Sec. 1: 1 inch = 25.4 mm

a. Where applicable, see also Section 1705.12, Special Inspectors for seismic resistance.

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

TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS			
VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity	-	X	
2. Verify excavations are extended to proper depth and have reached proper material	-	X	
3. Perform classification and testing of compacted fill materials	-	X	
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill materials	X	-	
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly	-	X	

MASONRY: TMS 402/802-16; Table 3 - Level 2 Quality Assurance				
MINIMUM TESTS				
Prior to construction, verification of compliance of submittals	Art 1.5			
Prior to construction, verification of f'm and f'ACC, except where specifically exempted by the Code	Art 1.4 B			
During construction, verification of Slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the project.	Art 1.5 & 1.6.3			
MINIMUM INSPECTION				
Inspection Task	Frequency (a)	Periodic	Reference for Criteria	
	Continuous	Periodic	TMS 402	TMS 602
1. As masonry construction begins, verify that the following are in compliance: a. Proportions of site-prepared mortar		X	Art. 2.1, 2.6 A & 2.6 C	
b. Grade and size of prestressing tendons and anchorages		X	Art. 2.4 B, 2.4 H	
c. Grade, type and size of reinforcement, connectors, anchor bolts, and prestressing tendons and anchorages		X	Art. 3.4 & 3.6 A	
d. Prestressing technique		X	Art. 3.6 B	
e. Properties of thin-bed mortar for AAC masonry	X(b)	X(c)	Art. 2.1 C.1	
f. Sample panel construction		X	Art. 1.6 D	
2. Prior to grouting, verify that the following are in compliance: a. Grout Splice		X	Art. 3.2 D & 3.2 F	
b. Placement of prestressing tendons and anchorages		X	Sec. 10.8 & 10.9	Art. 2.4 & 3.6
c. Placement of reinforcement, connectors, and anchor bolts		X	Sec. 6.1, 6.3.1 & 6.3.6 & 6.3.7	Art. 3.2 E, 3.4
d. Proportions of site-prepared grout and prestressing grout for bonded tendons		X	Art. 2.6 B, & 2.4 G.1.b	
3. Verify compliance of the following during construction: a. Materials and procedures with the approved submittals b. Placement of masonry units and mortar joint construction c. Size and location of structural elements d. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction		X	Art. 1.5	Art. 1.5
e. Welding of reinforcement		X	Sec. 6.1.6, 1.2	
f. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F (4°C)) or hot weather (temperature above 50°F (32.2°C))		X	Art. 1.8 C, & 1.6 D	
g. Application and measurement of prestressing force		X	Art. 3.6 B	
h. Placement of grout and prestressing grout for bonded tendons is in compliance		X	Art. 3.5 & 3.6 C	
i. Placement of AAC masonry units and construction of thin-bed mortar joints	X(b)	X(c)	Art. 3.3 B & 3.3 F.1.b	Art. 1.4 B, 2.6.3, 1.4 B, 2.6.3, 1.4 B, 2.6.3, 1.4 B, 2.6.3, 1.4 B, 2.6.3
4. Observe preparation of grout specimens, mortar specimens, and/or prisms		X		

(a) Frequency refers to the frequency of inspection, which may be continuous during the task listed or periodically during the listed task, as defined in the table.

(b) Required for the first 5000 square feet (465 square meters) of AAC masonry.

(c) Required after the first 5000 square feet (465 square meters) of AAC masonry.

AISC 360 TABLE N5.4-1 Inspection Tasks Prior to Welding			
Inspection Tasks Prior to Welding	QC	QA	
Welder qualification records and continuity records	P	O	
Welding procedure specifications (WPS) available	P	P	
Manufacturer certifications for welding consumables available	P	P	
Material identification (type/grade)	O	O	
Welder identification system 1	O	O	
Fit-up of groove welds (including joint geometry) · Joint preparation · Dimensions (alignment, root opening, root face, bevel) · Cleanliness (condition of steel surfaces) · Testing (lack weld quality and location) · Backing type and fit (if applicable)		O	O
Configuration and finish of access holes		O	O
Fit-up of fillet welds · Dimensions (alignment, gaps at root) · Cleanliness (condition of steel surfaces) · Testing (lack weld quality and location)		O	O
Check welding equipment		O	-
1. The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type. O: Observe these items on a random basis. Operations need not be delayed pending these inspections. P: Perform these tasks for each welded joint or member.			

AISC 360 TABLE N5.4-2 Inspection Tasks During Welding			
Inspection Tasks During Welding	QC	QA	
Control and handling of welding consumables · Packaging · Exposure control		O	O
No welding over cracked tack welds		O	O
Environmental conditions · Wind speed within limits · Precipitation and temperature		O	O
WPS followed Settings on welding equipment · Travel speed · Selected welding materials · Shielding gas type/flow rate · Preheat applied Interpass temperature maintained (min./max.) · Proper position (F, V, H, OH)		O	O
Welding techniques Interpass and final clearing Each pass within profile limitations Each pass meets quality requirements		O	O
Placement and installation of steel headed stud anchors	P	P	
O: Observe these items on a random basis. Operations need not be delayed pending these inspections. P: Perform these tasks for each welded joint or member.			

AISC 360 TABLE N5.4-3 Inspection Tasks After Welding			
Inspection Tasks After Welding	QC	QA	
Welds cleaned	O	O	
Size, length and location of welds		P	P
Welds meet visual acceptance criteria Crack protection Weldbase-metal fusion Center cross section Weld profiles Weld size Undercut Porosity		P	P
Arc strikes		P	P
k-area [a]		P	P
Weld access holes in rolled heavy shapes and built-up heavy shapes [b]		P	P
Backing removed and weld tabs removed (if required)		P	P
Repair activities		P	P
Document acceptance or rejection of welded joint or member		P	P
No prohibited welds have been added without the approval of the EOR		O	O
[a] When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75 mm) of the weld. [b] After rolled heavy shapes (see Section A3.1c) and built-up heavy shapes (see Section A3.1d) are welded, visually inspect the weld access hole for cracks. O: Observe these items on a random basis. Operations need not be delayed pending these inspections. P: Perform these tasks for each welded joint or member.			

AISC 360 TABLE N5.6-1 Inspection Tasks Prior to Bolting			
Inspection Tasks Prior to Bolting	QC	QA	
Manufacturer's certifications available for fastener materials	O	P	
Fasteners marked in accordance with ASTM requirements	O	O	
Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	O	O	
Correct bolting procedure selected for joint detail	O	O	
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	O	O	
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	P	O	
Proper storage provided for bolts, nuts, washers and other fastener components	O	O	
O: Observe these items on a random basis. Operations need not be delayed pending these inspections. P: Perform these tasks for each welded joint or member.			

AISC 360 TABLE N5.6-2 Inspection Tasks During Bolting			
Inspection Tasks During Bolting	QC	QA	
Fastener assemblies placed in all holes and washers and nuts are positioned as required	O	O	
Joint brought to the snug-tight condition prior to the pretensioning operation	O	O	
Fastener component not turned by the wrench prevented from rotating	O	O	
Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid joint toward the free ends	O	O	
O: Observe these items on a random basis. Operations need not be delayed pending these inspections. P: Perform these tasks for each welded joint or member.			
AISC 360 TABLE N5.6-3 Inspection Tasks After Bolting			
Inspection Tasks After Bolting	QC	QA	
Document acceptance or rejection of bolted connections	P	P	
O: Observe these items on a random basis. Operations need not be delayed pending these inspections. P: Perform these tasks for each welded joint or member.			

TABLE 1705.2.3 REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS			
TYPE	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	
1. Installation of open-web steel joists and joist girders: a. End Connections - welding or bolting b. Bridging - Horizontal or diagonal	-	X	
1. Standard bridging 2. Bridging that differs from the SJI specifications listed in Section 2207.1	-	X	
	-	X	

ABBREVIATIONS:  
ABBREVIATIONS ARE AS SHOWN IN THE CONTRACT DOCUMENTS WITH THE FOLLOWING EXCEPTIONS:

@ AND ANCHOR ROD  
ADON ADDITION OR ADDITIONAL  
AHU AIR HANDLING UNIT  
ADON ADDITIONAL  
ANCH ANCHOR  
APPROX APPROXIMATE  
ARCH ARCHITECTURAL  
BLDG BUILDING  
BM (S) BEAM (S)  
BOT BOTTOM OF  
BRDG BRIDGING  
BRG BEARING  
BTWN BETWEEN  
CANL CHANNEL  
CANL CANISTER  
CIP CAST-IN-PLACE CONCRETE  
CJ CONSTRUCTION/CONTROL JOINT  
CJP COMPLETE JOINT PENETRATION  
CNTRLINE CENTERLINE  
CMU CONCRETE MASONRY UNIT  
COL COLUMN  
CON(S) CONNECTION (S)  
CONST CONSTRUCTION  
CONT CONTINUOUS  
CPIT CAST-PIECE  
db BAR DIAMETER  
DIA DETAIL  
DIA DIAMETER  
DOW (S) DEFORMED WIRE ANCHOR  
DWG (S) DRAWING (S)  
EA EACH  
EXT EXTENDED END  
EJ EXPANSION JOINT  
EL ELEVATION  
ELEV ELEVATION  
EMBED EMBEDMENT  
ENGR ENGINEER  
EDGE OF SLAB EDGE OF SLAB  
EOO EDGE OF DECK  
EQ EQ  
EQUIP EQUIPMENT  
EQUIV EQUIVALENT  
EW EACH WAY  
EXIST EXISTING  
EXP EXPANSION  
EXT EXTERIOR  
FAC FACE  
FAB FABRICATE  
F'c 28 DAY CONCRETE STRENGTH  
FD FLOOR DRAIN  
FIN FOUNDATION  
FIN FINISH (ED)  
FL FLOOR  
FS FACE SIDE  
FTG FOOTING  
FV FIELD VERIFY  
FY YIELD STRENGTH  
GALV GALVANIZED  
GEN GENERAL  
HGR HANGER  
HORIZ HORIZONTAL  
HSA HEADED STUD ANCHOR  
HSS HOLLOW STRUCTURAL SHAPE  
INT INTERIOR  
JT JOINT  
KIPS KIPS  
KSF KIPS PER SQUARE FOOT  
ZL DOUBLE ANGLE  
L ANGLE  
LLBB LONG LEG BACK TO BACK  
LB (S) POUND (S)  
Ld DEVELOPMENT LENGTH  
LLH LONG LEG HORIZONTAL  
LLV LONG LEG VERTICAL  
LWC LIGHT WEIGHT CONCRETE  
MAS MASONRY  
MAX MAXIMUM  
MC MOMENT CONNECTION  
MECH MECHANICAL  
MEZZ MEZZANINE  
MFR MANUFACTURE (R)  
MIN MINIMUM  
MISC MISCELLANEOUS  
NC NOT IN CONTRACT  
NS NEAR SIDE  
NTS NOT TO SCALE  
NWC NORMAL WEIGHT CONCRETE  
OC ON CENTER  
OPENING (S) OPENING (S)  
OPP OPPOSITE  
OPP OPPOSITE HAND  
PC PRECAST CONCRETE  
PCF POUNDS PER CUBIC FOOT  
PL PLATE  
PLF POUNDS PER LINEAR FOOT  
PRELIM PRELIMINARY  
PSF POUNDS PER SQUARE FOOT  
PSI POUNDS PER SQUARE INCH  
PT POST-TENSION (ED)ING  
QTY QUANTITY  
RAD / R RADIUS  
RE / REF REFERENCE  
REIN REINFORCEMENT  
REQD REQUIRED  
REV REVISION  
RTU ROOF TOP UNIT  
SC SHEAR CONNECTOR (S)  
SCHED SCHEDULE  
SECT SECTION  
SHT SHEET  
SIM SIMILAR  
SLBB SHORT LEG BACK TO BACK  
SPA SPACE (ING)  
SPEC SPECIFICATION (S)  
SQ SQUARE  
STD STANDARD  
STL STEEL  
STR STRIP  
STRUCT STRUCTURE  
SYM SYMMETRICAL  
T THRO  
T&B TOP AND BOTTOM  
TOP OF TOP OF  
TOP OF CONCRETE TOP OF CONCRETE  
TOM TOP OF MASONRY  
TOS TOP OF STEEL  
TYP TYPICAL  
UNO UNLESS NOTED OTHERWISE  
VERT VERTICAL  
W WIDE FLANGE  
WGT WEIGHT  
WP WORK POINT  
WT STEEL TEE SECTION  
WWR WELDED WIRE REINFORCEMENT  
X-STR EXTRA STRONG  
XX-STR DOUBLE EXTRA STRONG

SYMBOLS AND NOTATIONS

MOMENT CONNECTION	
BEAM SPLICE	
COLLECTOR BEAM AXIAL CONNECTION (TENSION OR COMPRESSION, 15k MIN WHERE AXIAL LOAD NOT INDICATED PER PLAN)	
COLUMN CENTER LINE	
CMU	
COMPOSITE BEAM	
CONCRETE	
EARTH (UNDISTURBED)	
FLOOR OR ROOF SLOPE	
FLOOR STEP IN ELEVATION	
GRAVEL	
STRUCTURED SLAB OR METAL DECK SPAN DIRECTION	
PRECAST CONCRETE	
GROUT	
ROCK	
TOP OF STEEL ELEVATION FROM NOTED TOS	
WELDED WIRE REINFORCEMENT	
KEYNOTE MARK	
COLUMN MARK	
FOOTING MARK	
CONCRETE COLUMN MARK	
STEEL BRACED FRAME BAY	
MATCHLINE	
REVISION MARK	
CROSS REFERENCE	
DETAIL REFERENCE	
DETAIL OR WALL SECTION	
FRAME OR SHEAR WALL ELEVATION	
ELEVATION DATUM MARK	
FLOOR OPENING	
ARCHITECTURAL EXTERIOR/CLADDING LINE	



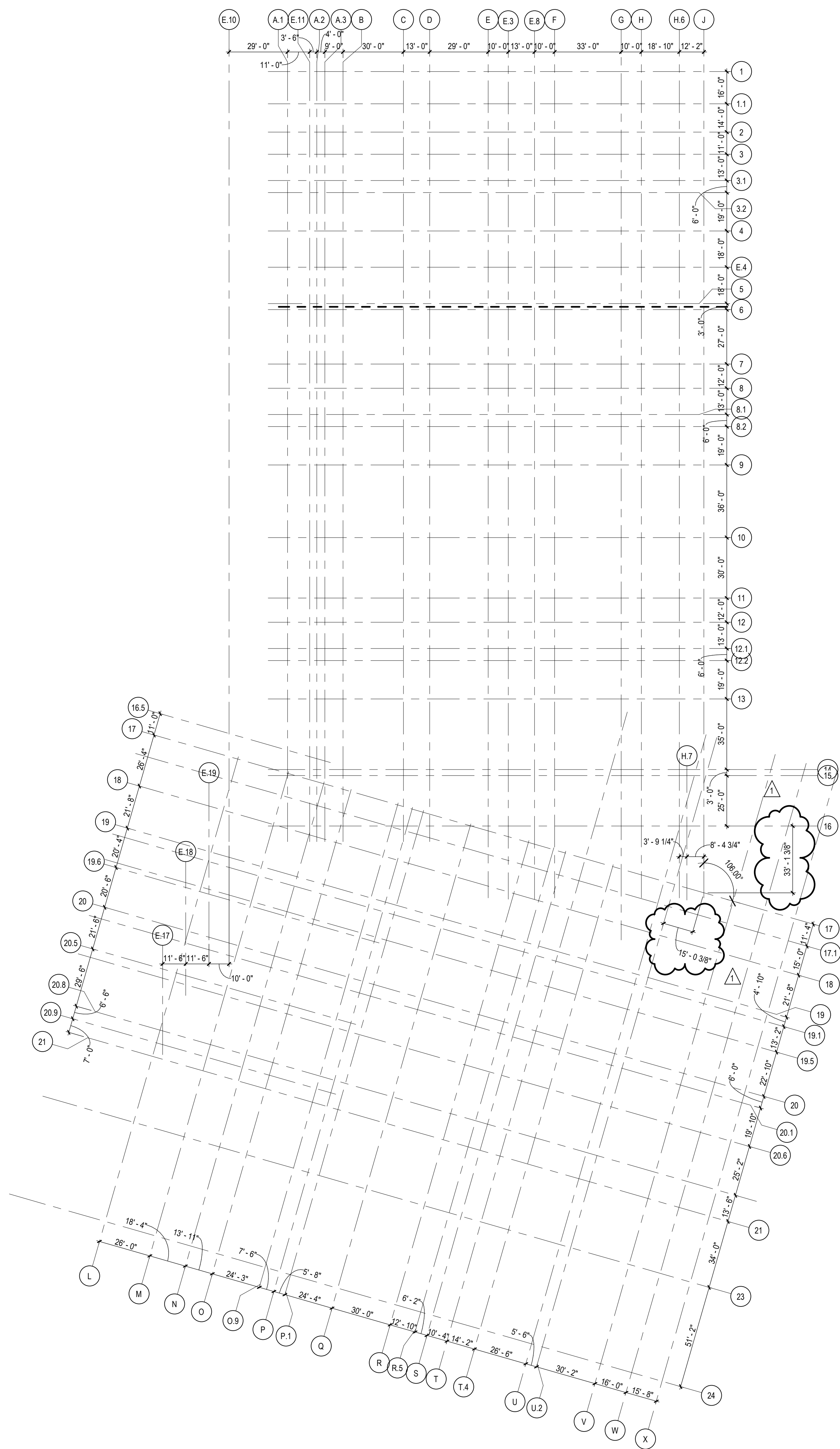








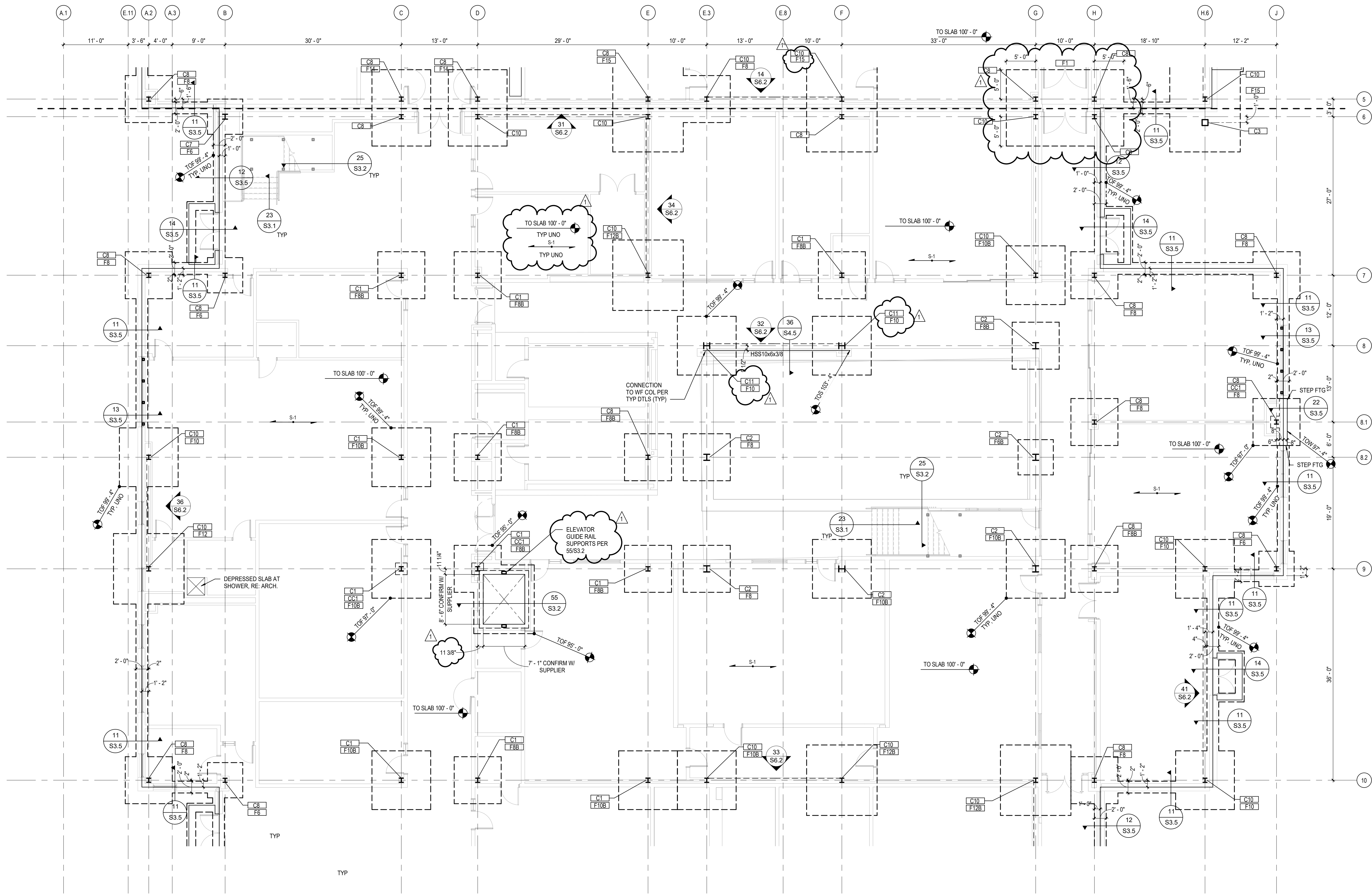




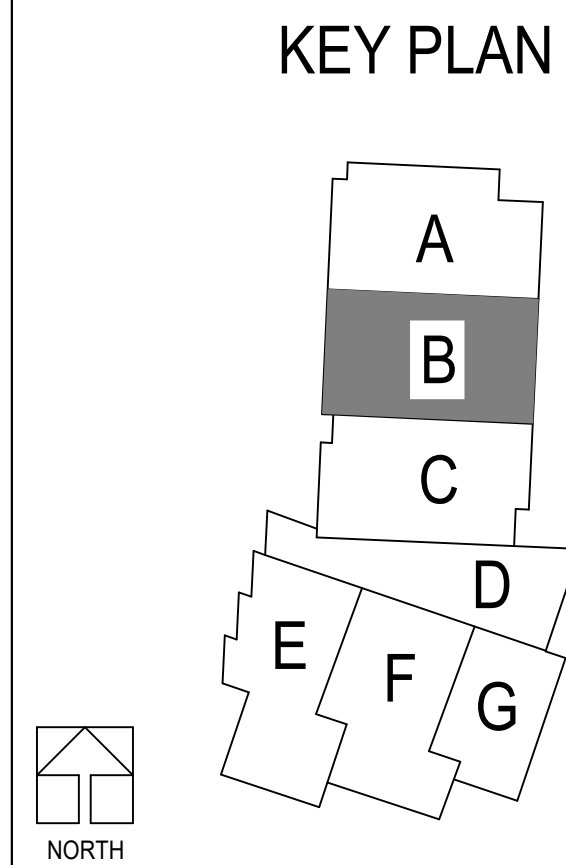








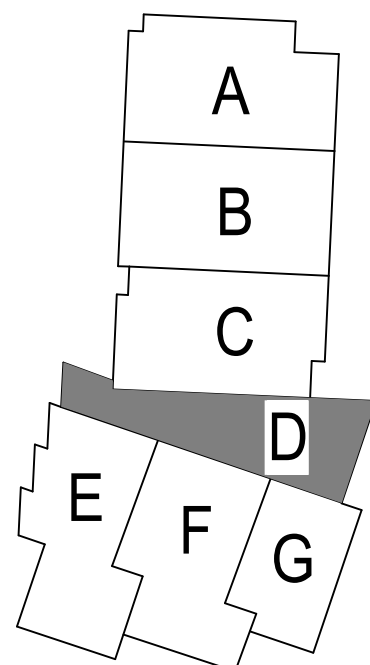
**FOUNDATION PLAN - AREA B**  
SCALE: 1/8" = 1'-0"  
NORTH











- ## S1.1D

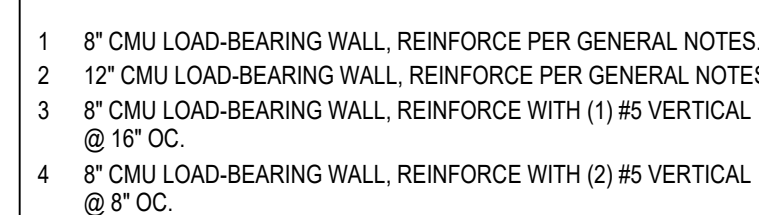




NORTH

S1.1E





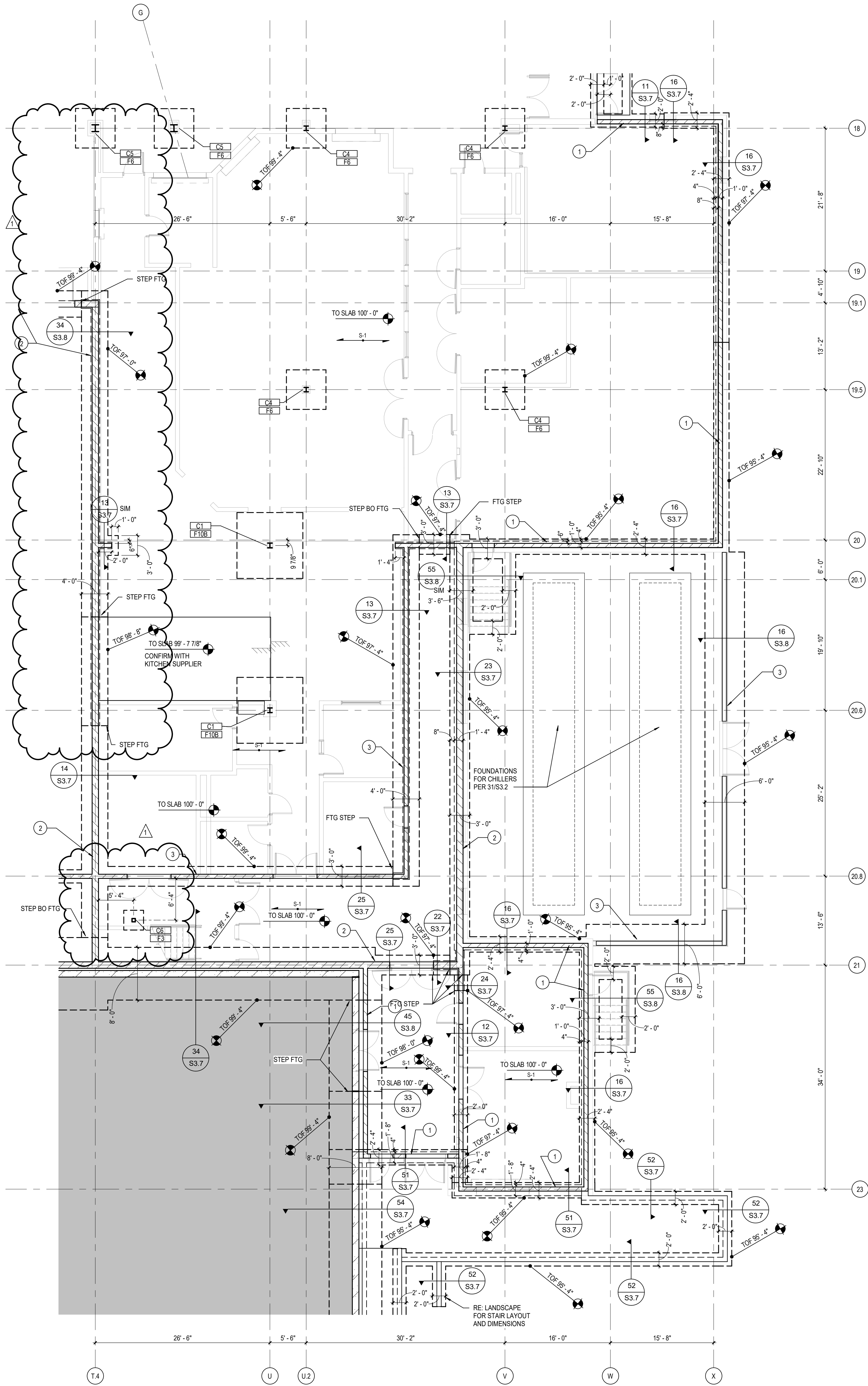
LEE'S SUMMIT MIDDLE SCHOOL  
LEE'S SUMMIT R-7 SCHOOL DISTRICT

13-20102-00  
FOUNDA  
PLAN - A

S1.1F



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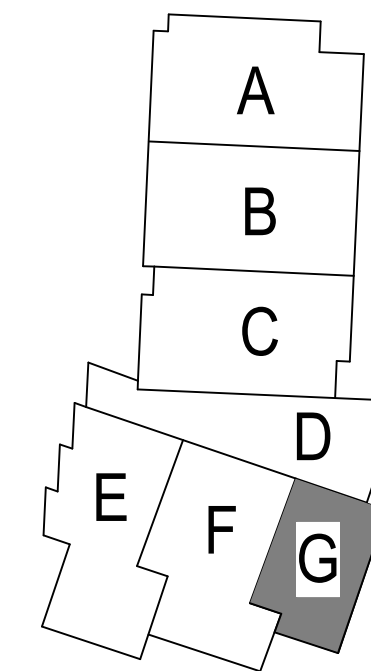
FOUNDATION PLAN - AREA G

SCALE: 1/8" = 1'-0"

- 1 8" CMU LOAD-BEARING WALL, REINFORCE PER GENERAL NOTES.
- 2 12" CMU LOAD-BEARING WALL, REINFORCE PER GENERAL NOTES.
- 3 8" CMU LOAD-BEARING WALL, REINFORCE WITH (1) #5 VERTICAL @ 10' OC.
- 4 8" CMU LOAD-BEARING WALL, REINFORCE WITH (2) #5 VERTICAL @ 8' OC.



KEY PLAN



LEE'S SUMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT R-7 SCHOOL DISTRICT

1001 SE BAILEY ROAD  
LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE  
- ISSUE FOR PERMIT

10/08/20

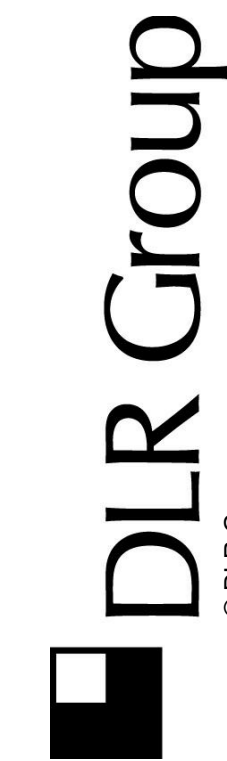
REVISIONS

1 ADDENDUM 002 10/19/20

13-20102-00

FOUNDATION  
PLAN - AREA G

S1.1G

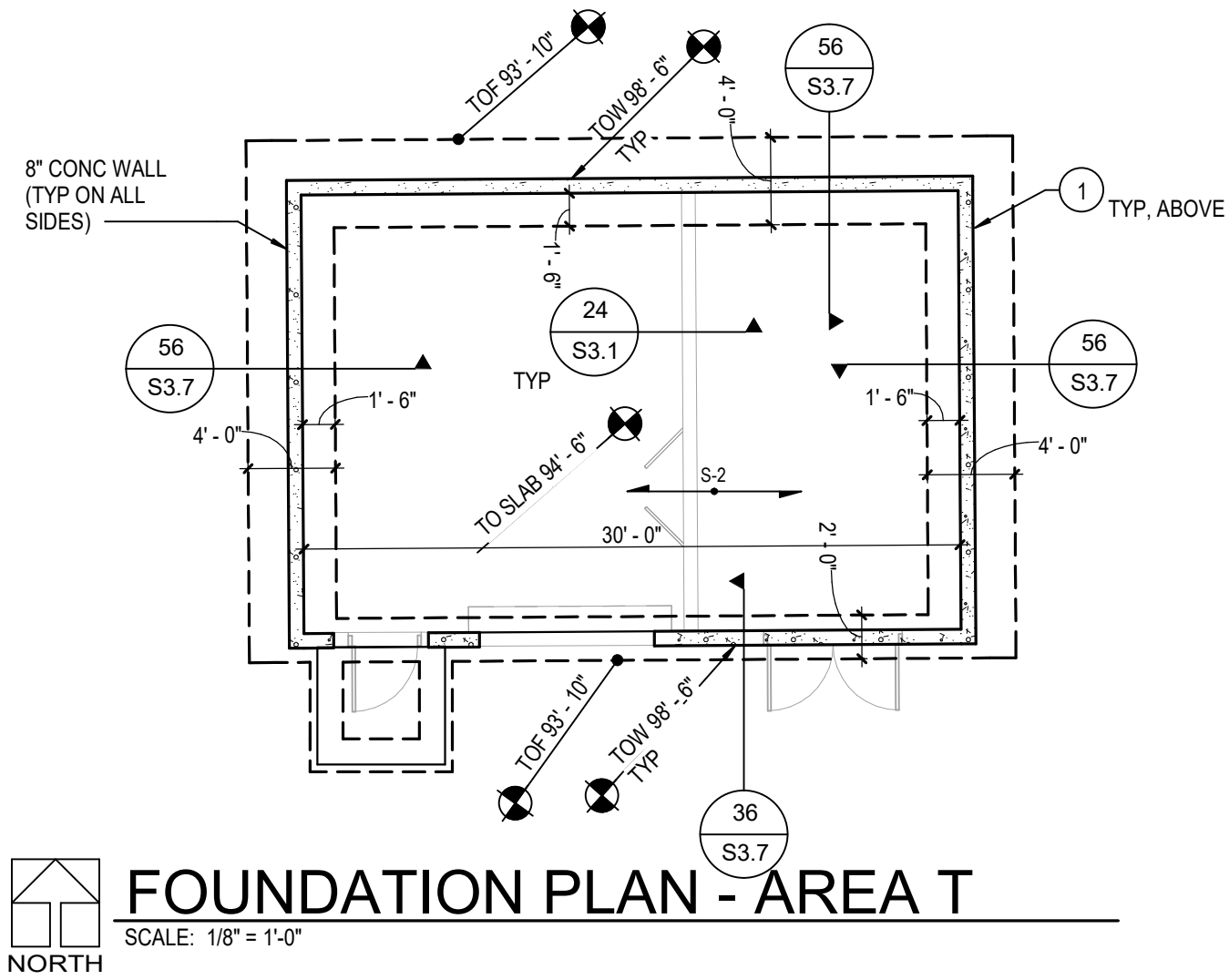
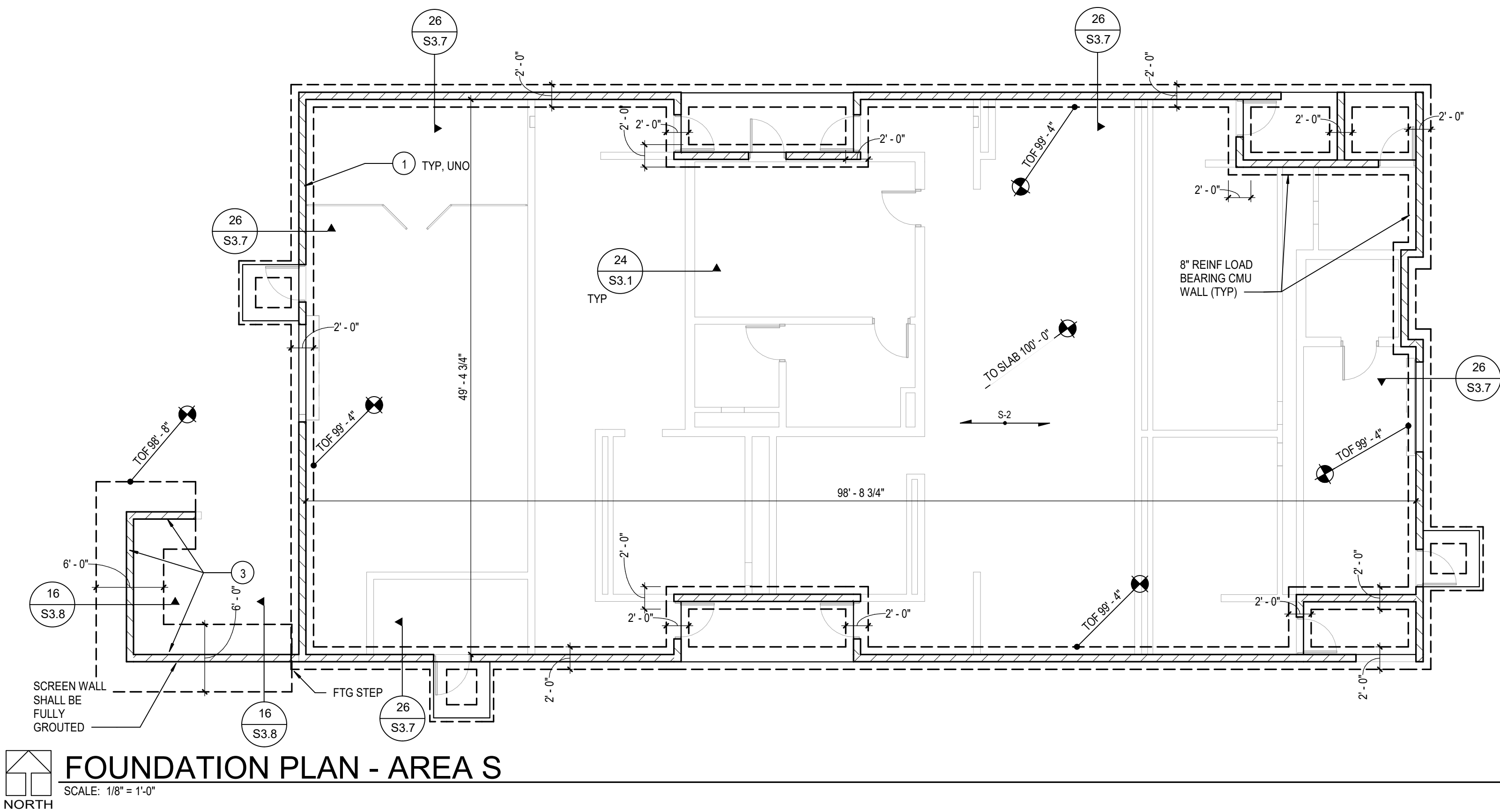


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Manual State Certificate of Authority #000395





BM 360/1/19-20102-00 Lee's Summit Middle School 4/19/2010/02-00\_Lee's Summit Middle School\_4\_ST\_2020.dwg  
10/7/2020 4:33:22 PM



- 1 8" CMU LOAD-BEARING WALL, REINFORCE PER GENERAL NOTES.
- 2 12" CMU LOAD-BEARING WALL, REINFORCE PER GENERAL NOTES.
- 3 8" CMU LOAD-BEARING WALL, REINFORCE WITH (1) #5 VERTICAL @ 10' OC
- 4 8" CMU LOAD-BEARING WALL, REINFORCE WITH (2) #5 VERTICAL @ 8' OC.



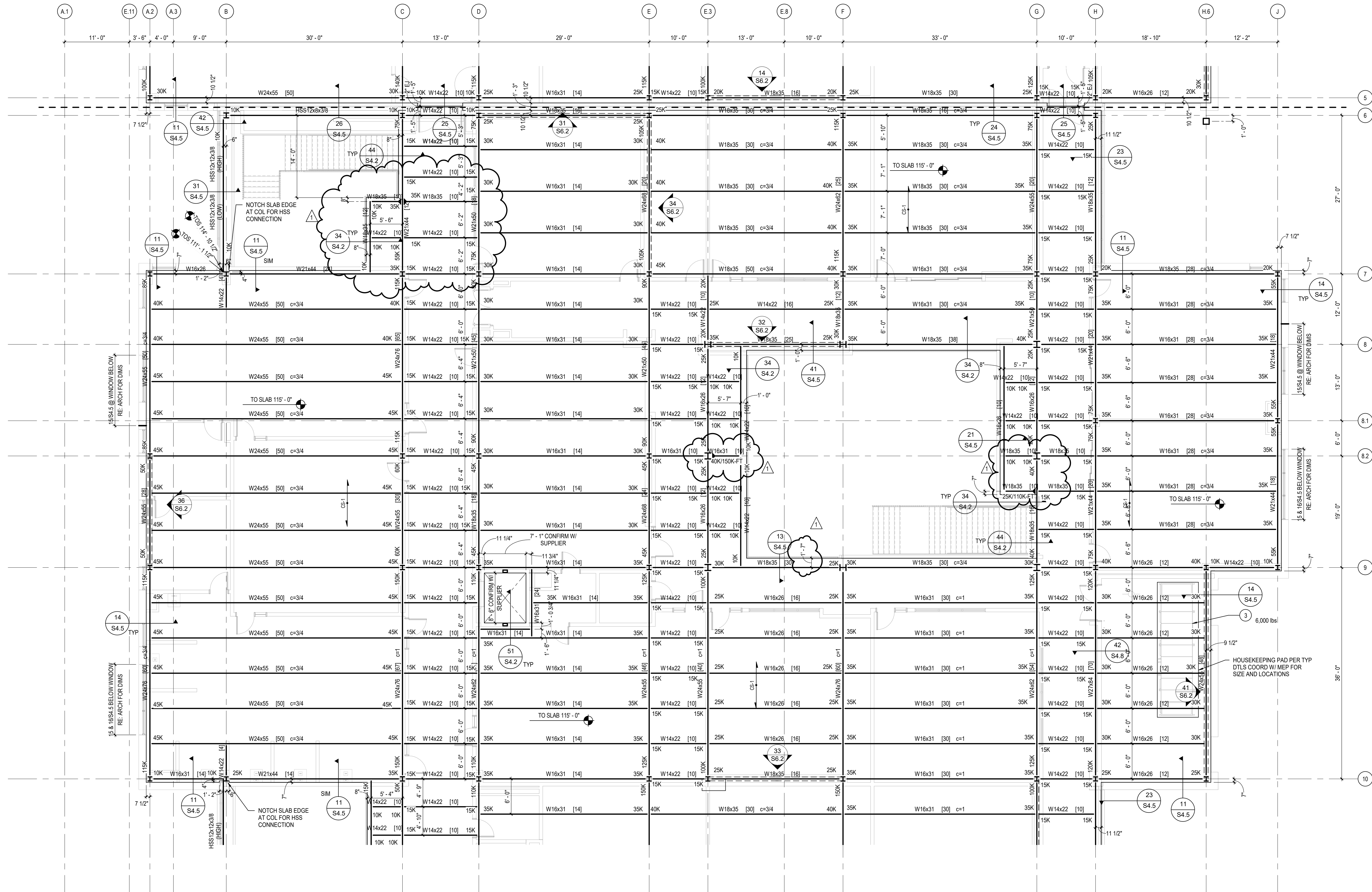


-



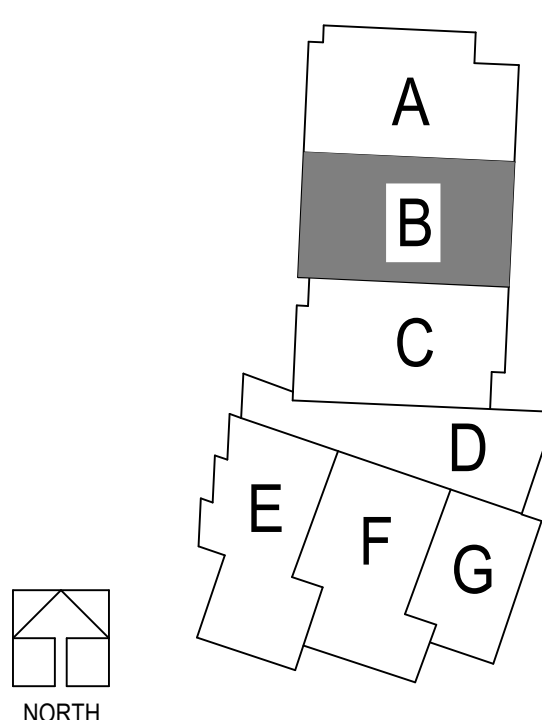
\\B\320\15-20102-20 Lee's Summit Middle School 4\15-20102-20 Lee's Summit Middle School\_4\_ST\_2020.dwg  
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 **FLOOR FRAMING PLAN - AREA B**  
SCALE: 1/8" = 1'-0"



- 1 BOTTOM FLANGE BRACE PER TYPICAL DETAIL PER S6/S4.2 AND S1/S5.1
- 2 ROOF HATCH PER ARCHITECTURAL DRAWINGS. PROVIDE 22SS.1
- 3 MECHANICAL UNIT OF MAXIMUM WEIGHT INDICATED, CONFIRM WITH MECHANICAL SUPPLIER.
- 4 GYM EQUIPMENT ALLOWANCE OF WEIGHT INDICATED, CONFIRM WEIGHT AND DETAILS WITH ACTUAL EQUIPMENT SELECTED. CONNECTIONS TO ROOF STRUCTURE IS BY THE GYM EQUIPMENT SUPPLIER.

**KEY PLAN**





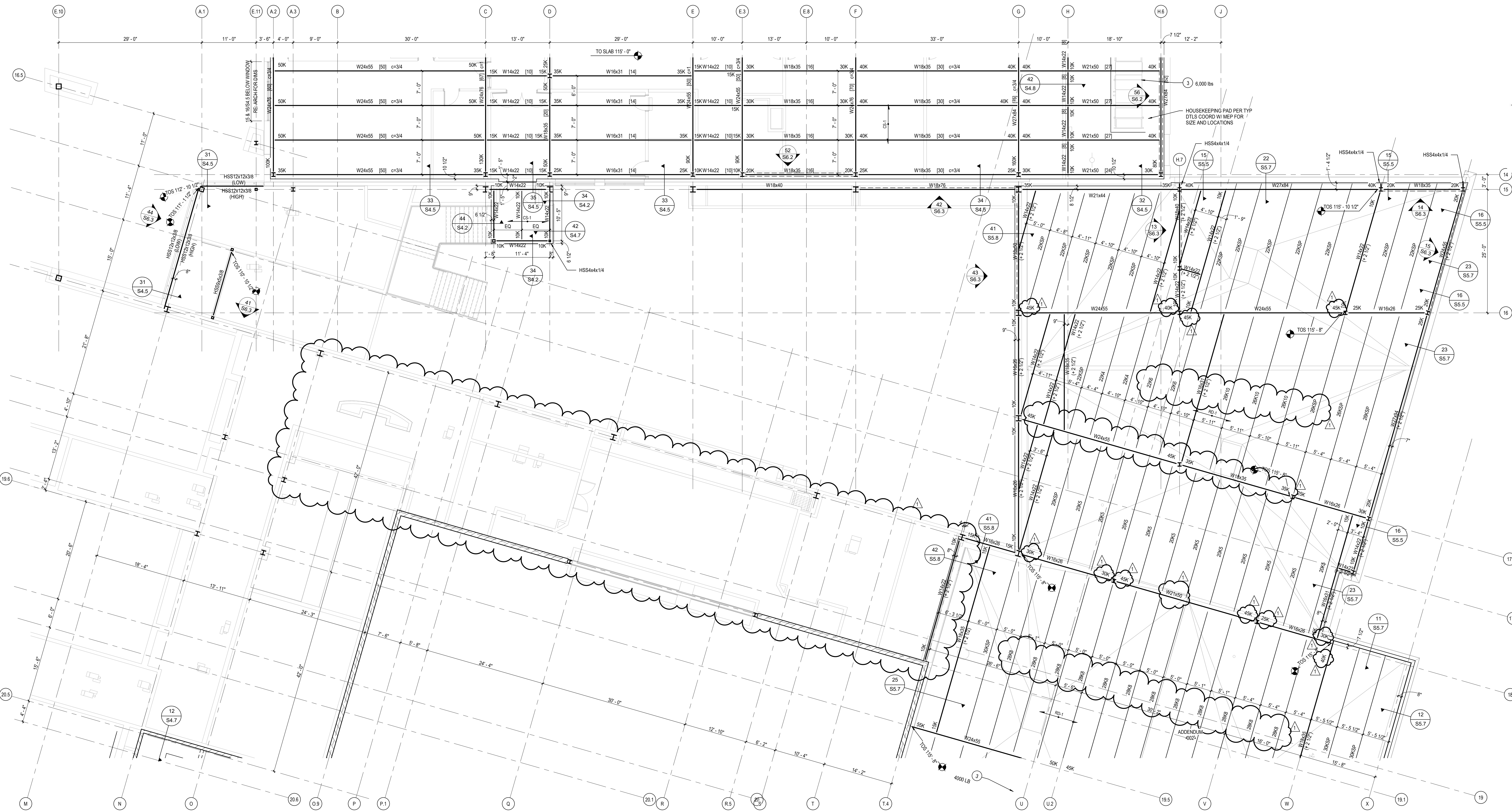


Professional Engineer Seal for Joseph Smith, No. 200701252, State of Utah, expires 12/31/2010.



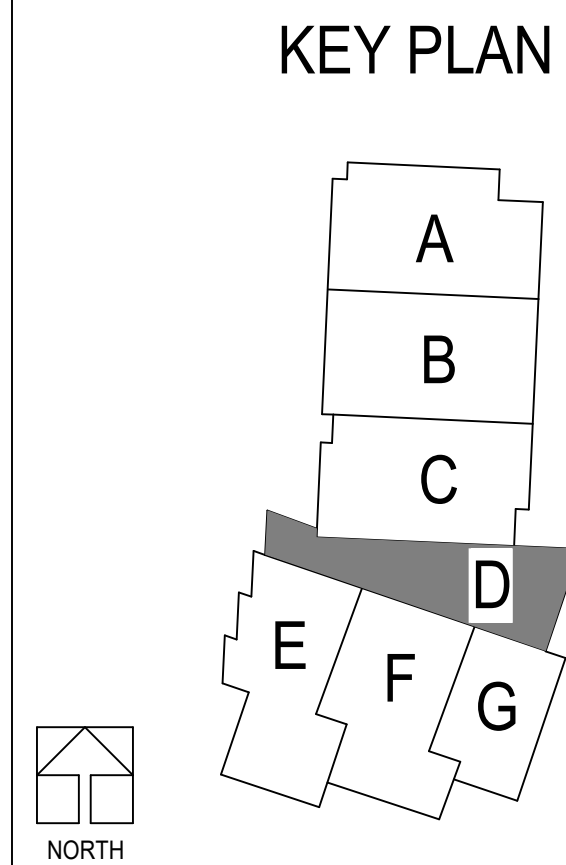


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10/19/2020 11:12:16 AM



**FLOOR FRAMING PLAN - AREA D**  
SCALE: 1/8" = 1'-0"  
NORTH

1. BOTTOM FLANGE BRACE PER TYPICAL DETAIL PER 50/54.2 AND 51/55.1
2. ROOF HATCH PER ARCHITECTURAL DRAWINGS. PROVIDE 2/285.1.
3. MECHANICAL UNIT OF MAXIMUM WEIGHT INDICATED, CONFIRM WITH MECHANICAL SUPPLIER.
4. GYM EQUIPMENT ALLOWANCE OF WEIGHT INDICATED, CONFIRM WEIGHT AND DETAILS WITH ACTUAL EQUIPMENT SELECTED. CONNECTIONS TO ROOF STRUCTURE IS BY THE GYM EQUIPMENT SUPPLIER.



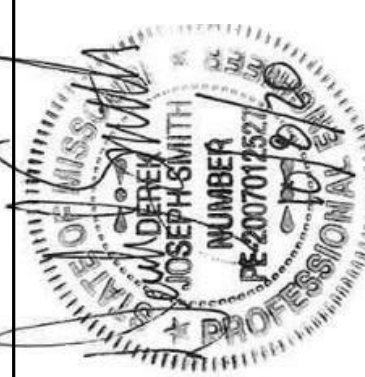
**LEE'S SUMMIT MIDDLE SCHOOL #4**  
LEE'S SUMMIT R-7 SCHOOL DISTRICT

PACKAGE 3 - BUILDING & SITE  
- ISSUE FOR PERMIT  
10/08/20  
REVISIONS  
1. ADDENDUM 002 10/19/20

13-20102-00

LOW ROOF  
FRAMING PLAN -  
AREA D

**S2.1D**







- 1 BOTTOM FLANGE BRACE PER TYPICAL DETAIL PER  
56/S4.2 AND 51/S5.1
- 2 ROOF HATCH PER ARCHITECTURAL DRAWINGS.  
PROVIDE 22/S5.1.
- 3 MECHANICAL UNIT OF MAXIMUM WEIGHT INDICATED,  
CONFIRM WITH MECHANICAL SUPPLIER.
- 4 GYM EQUIPMENT ALLOWANCE OF WEIGHT INDICATED.  
CONFIRM WEIGHT AND DETAILS WITH ACTUAL  
EQUIPMENT SELECTED. CONNECTIONS TO ROOF  
STRUCTURE IS BY THE GYM EQUIPMENT SUPPLIER.



## LEE'S SUMMIT MIDDLE SCHOOL #4

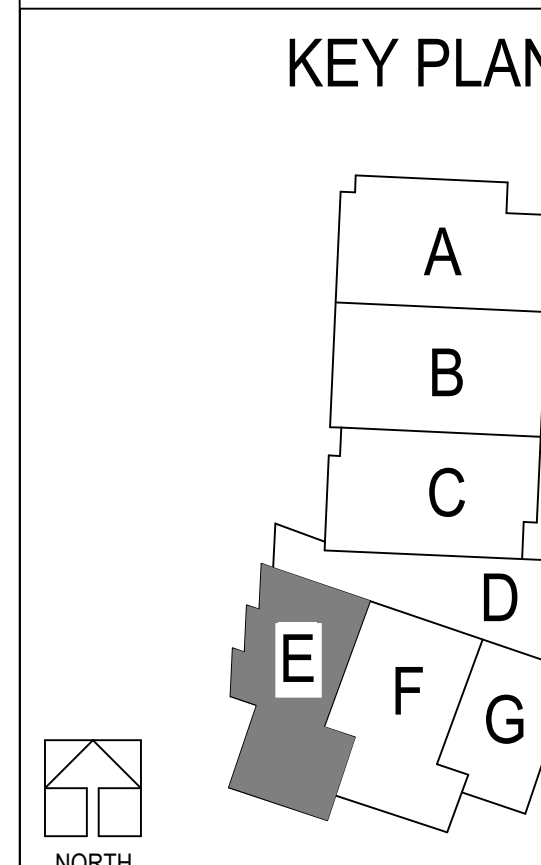
1001 SE BAILEY ROAD

PACKAGE 3 - BUILDING & SITE  
- ISSUE FOR PERMIT  
10/08/20  
REVISIONS  
1 ADDENDUM 002 10/19/20

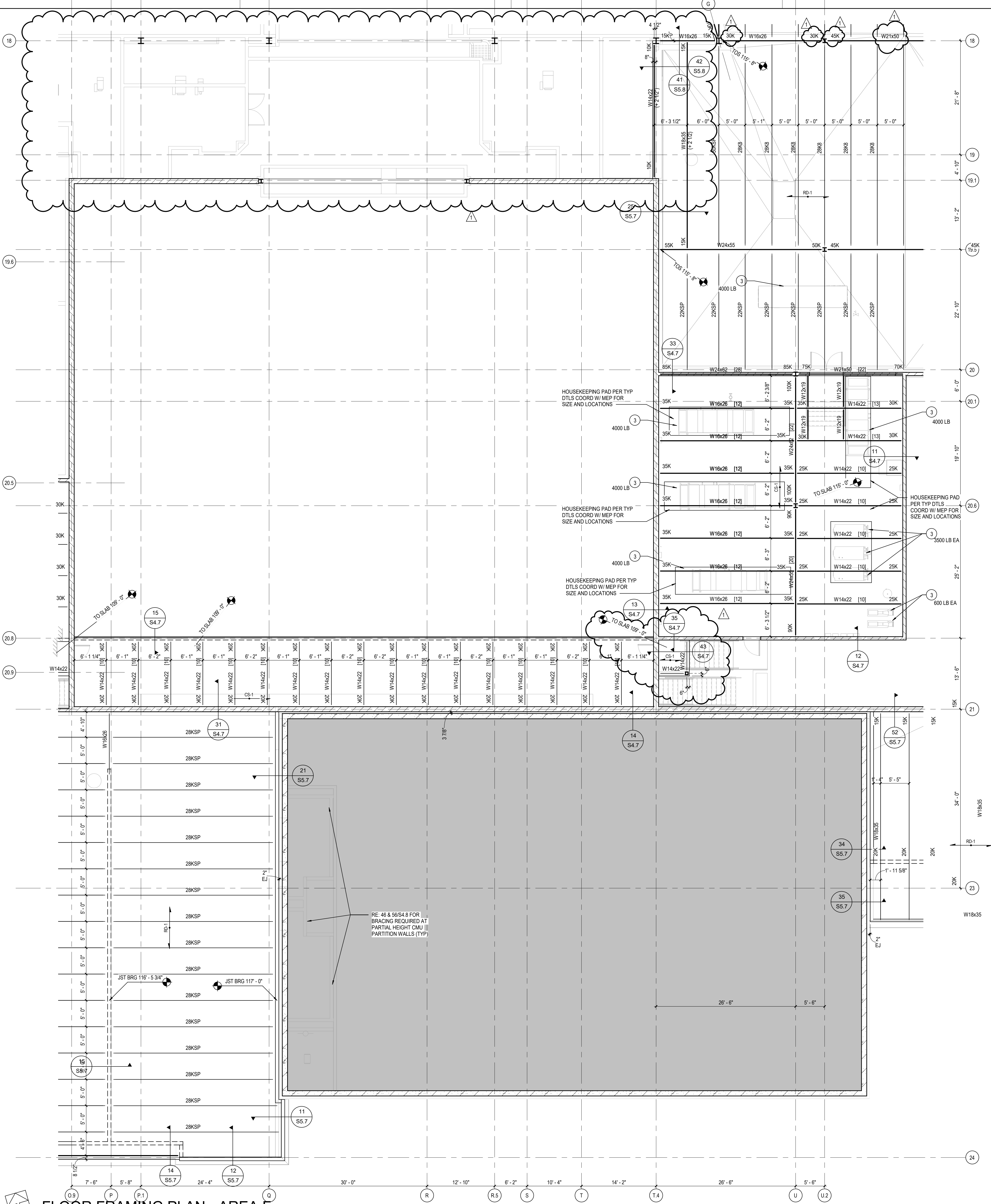
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FLOOR AND LOW  
ROOF FRAMING  
PLAN - AREA E

S2.1E



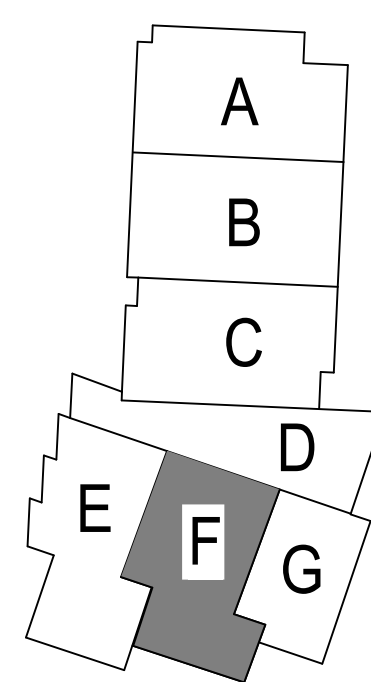




- 1 BOTTOM FLANGE BRACE PER TYPICAL DETAIL PER  
56/S4.2 AND 51/S5.1
- 2 ROOF HATCH PER ARCHITECTURAL DRAWINGS.  
PROVIDE 22/S5.1
- 3 MECHANICAL UNIT OF MAXIMUM WEIGHT INDICATED,  
CONFIRM WITH MECHANICAL SUPPLIER.
- 4 GYM EQUIPMENT ALLOWANCE OF WEIGHT INDICATED,  
CONFIRM WEIGHT AND DETAILS WITH ACTUAL  
EQUIPMENT SELECTED. CONNECTIONS TO ROOF  
STRUCTURE IS BY THE GYM EQUIPMENT SUPPLIER.



## KEY PLAN



LEE'S SUMMIT MIDDLE SCHOOL #4

PACKAGE 3 - BUILDING & SITE  
- ISSUE FOR PERMIT  
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REVISIONS  
1 ADDENDUM 002 10/19/20

13-20102-00

FLOOR AND LOW  
ROOF FRAMING  
PLAN - AREA F

S2.1F



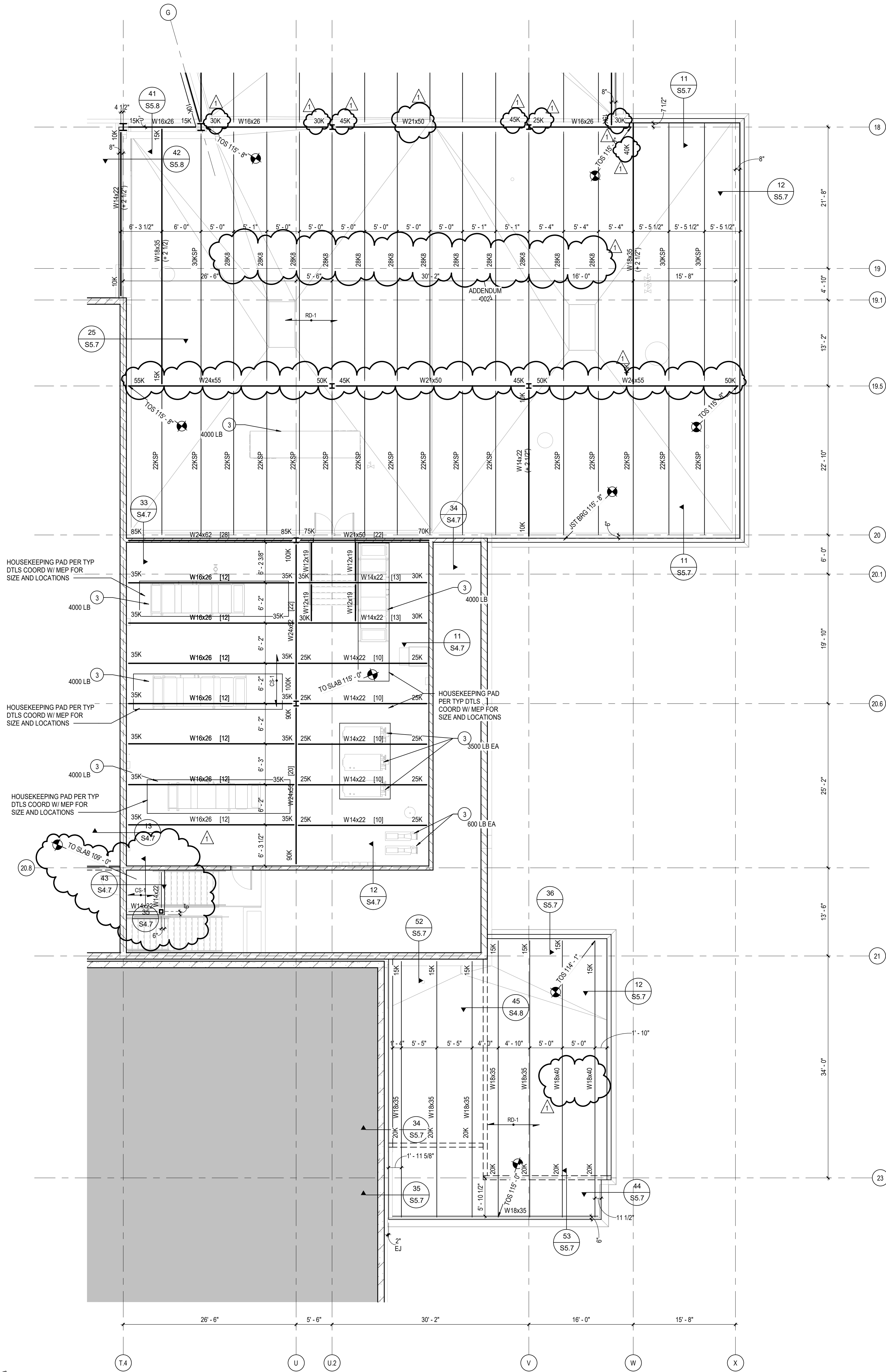


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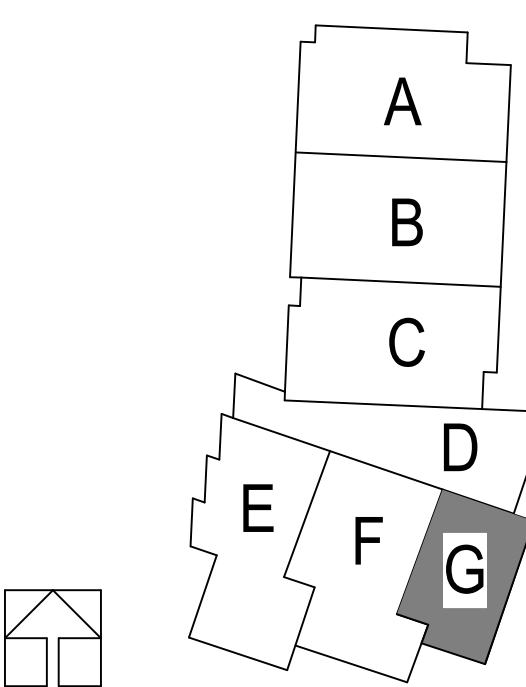
FLOOR FRAMING PLAN - AREA G

NORTH SCALE: 1/8" = 1'-0"



- 1 BOTTOM FLANGE BRACE PER TYPICAL DETAIL PER 5054.2 AND 5155.1
- 2 ROOF HATCH PER ARCHITECTURAL DRAWINGS. PROVIDE 22SS.1
- 3 MECHANICAL UNIT OF MAXIMUM WEIGHT INDICATED. CONFIRM WITH MECHANICAL SUPPLIER.
- 4 GYM EQUIPMENT ALLOWANCE OF WEIGHT INDICATED. CONFIRM WEIGHT AND DETAILS WITH ACTUAL EQUIPMENT SELECTED. CONNECTIONS TO ROOF STRUCTURE IS BY THE GYM EQUIPMENT SUPPLIER.

KEY PLAN



LEE'S SUMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT R-7 SCHOOL DISTRICT

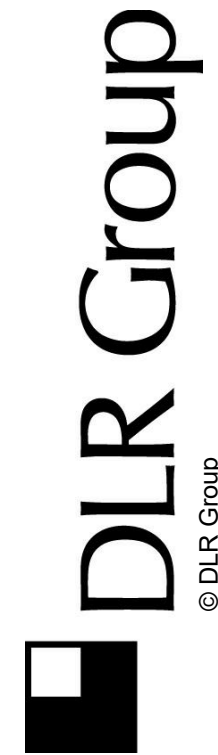
1001 SE BAILEY ROAD  
LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE  
- ISSUE FOR PERMIT  
10/08/20  
REVISIONS  
1 ADDENDUM 002 10/19/20

13-20102-00

FLOOR AND LOW  
ROOF FRAMING  
PLAN - AREA G

S2.1G

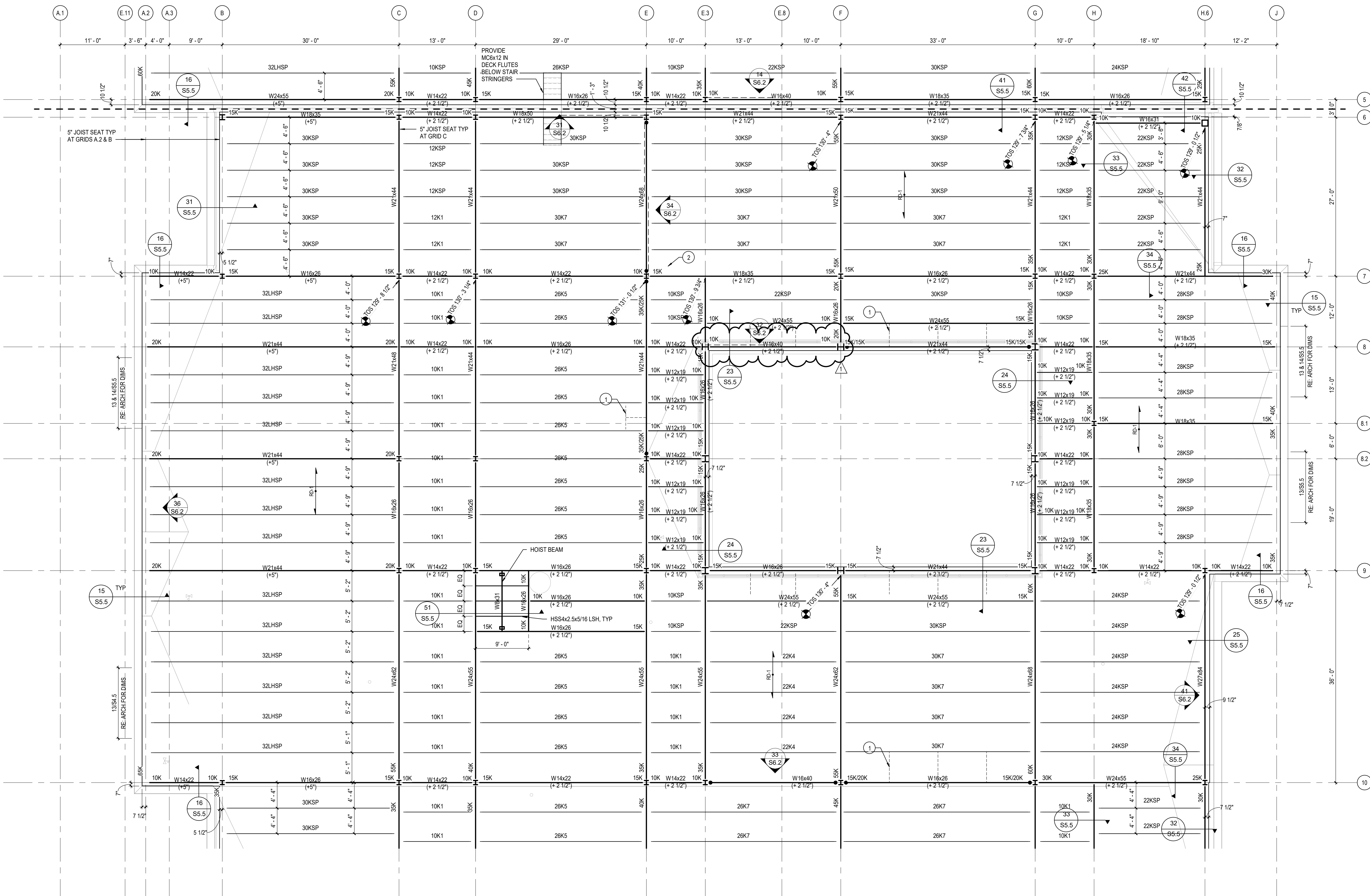


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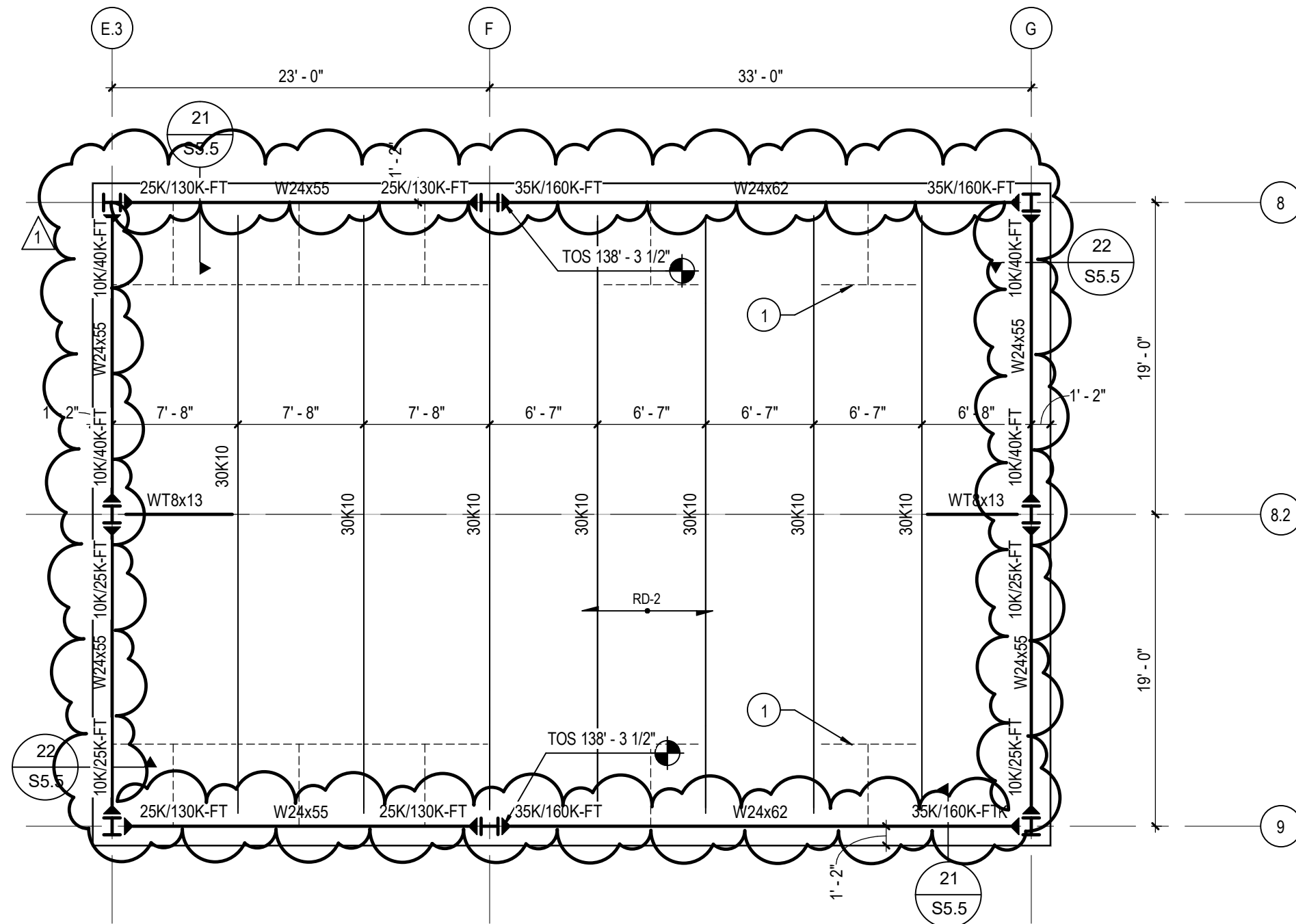






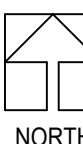
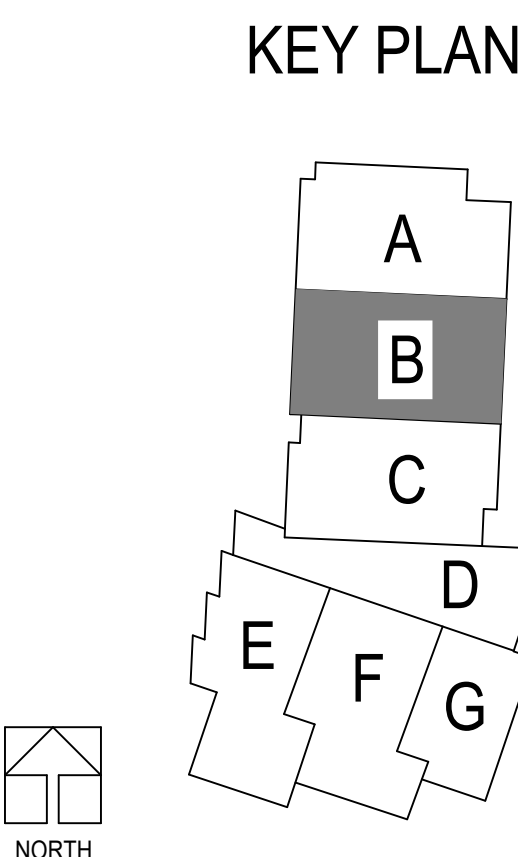


**ROOF FRAMING PLAN - AREA B**  
SCALE: 1/8" = 1'-0"



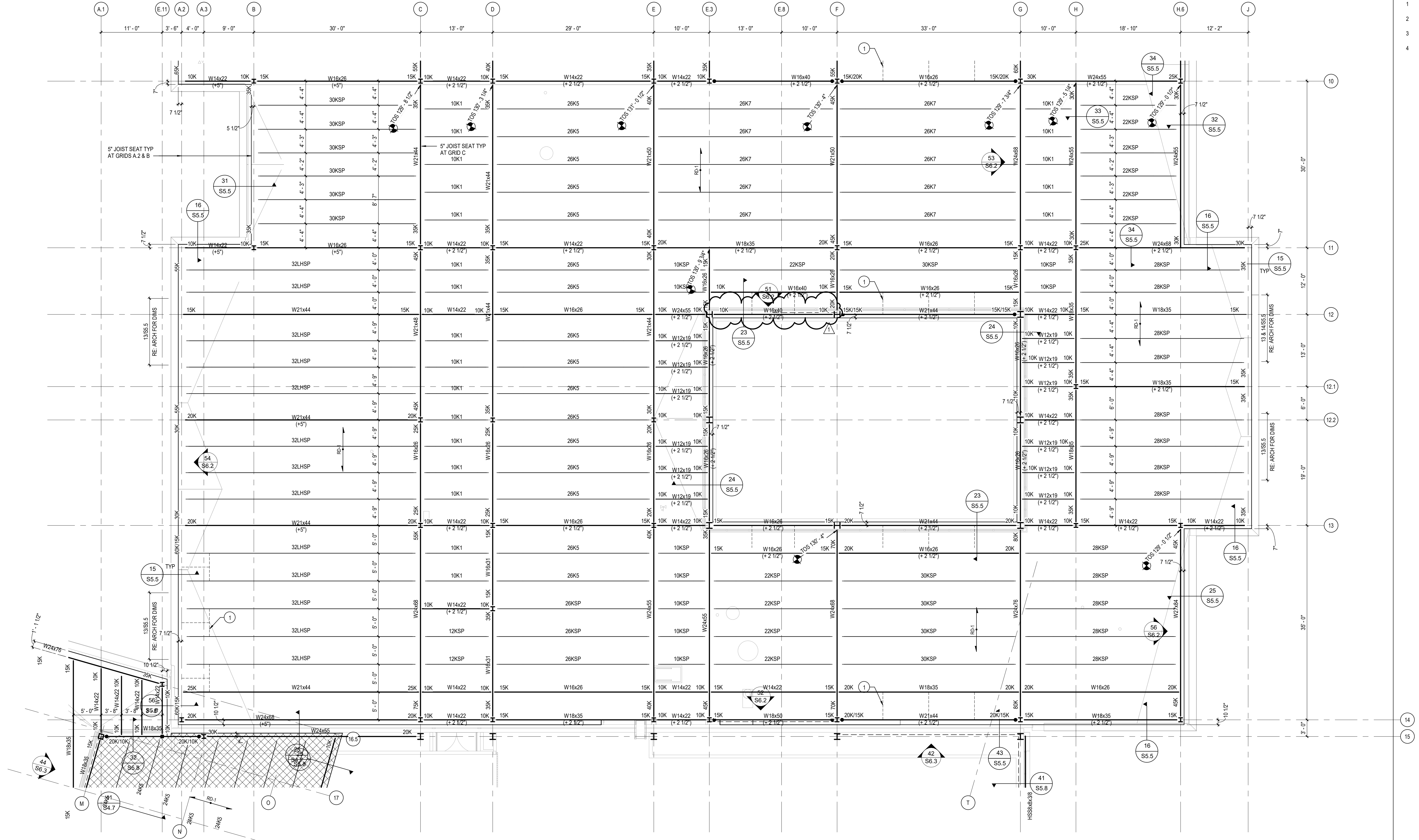
**CLERESTORY ROOF FRAMING PLAN - AREA B**  
SCALE: 1/8" = 1'-0"

1. BOTTOM FLANGE BRACE PER TYPICAL DETAIL PER S6/S4.2 AND S1/S5.1
2. ROOF HATCH PER ARCHITECTURAL DRAWINGS. PROVIDE 20/SS.1.
3. MECHANICAL UNIT OF MAXIMUM WEIGHT INDICATED. CONFIRM WITH MECHANICAL SUPPLIER.
4. GYM EQUIPMENT ALLOWANCE OF WEIGHT INDICATED. CONFIRM WEIGHT AND DETAILS WITH ACTUAL EQUIPMENT SELECTED. CONNECTIONS TO ROOF STRUCTURE IS BY THE GYM EQUIPMENT SUPPLIER.

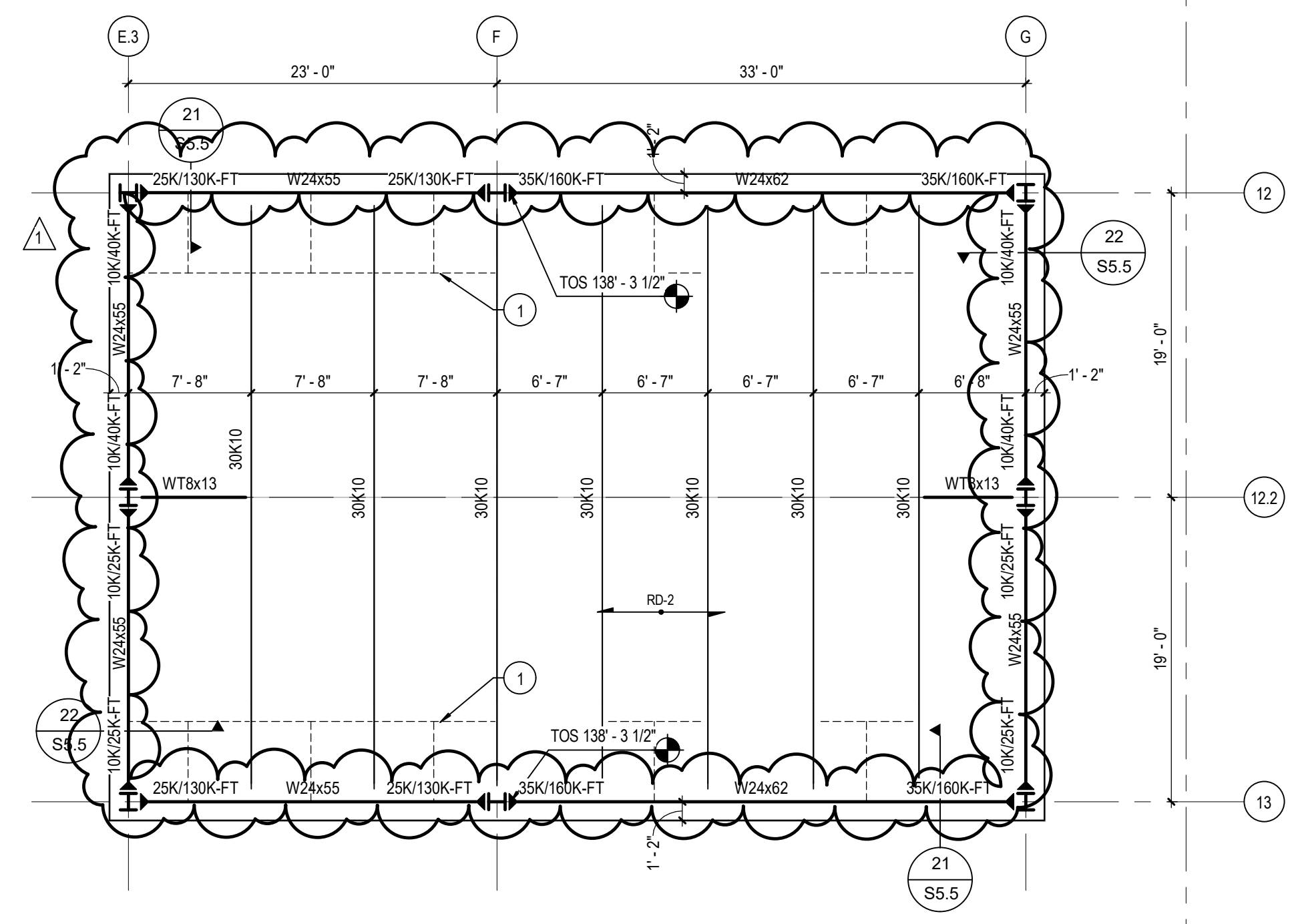




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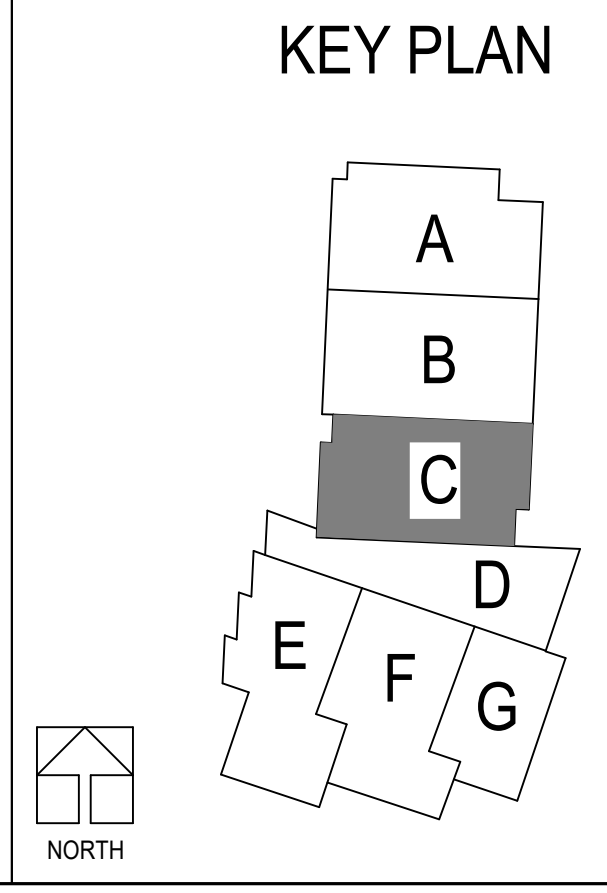


ROOF FRAMING PLAN - AREA C  
SCALE: 1/8" = 1'-0"



CLERESTORY ROOF FRAMING PLAN - AREA C  
SCALE: 1/8" = 1'-0"

- 1 BOTTOM FLANGE BRACE PER TYPICAL DETAIL PER 56/54.2 AND 51/55.1
- 2 ROOF HATCH PER ARCHITECTURAL DRAWINGS. PROVIDE 22/55.1
- 3 MECHANICAL UNIT OF MAXIMUM WEIGHT INDICATED. CONFIRM WITH MECHANICAL SUPPLIER.
- 4 GYM EQUIPMENT ALLOWANCE OF WEIGHT INDICATED. CONFIRM WEIGHT AND DETAILS WITH ACTUAL EQUIPMENT SELECTED. CONNECTIONS TO ROOF STRUCTURE IS BY THE GYM EQUIPMENT SUPPLIER.



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LEE'S SUMMIT MIDDLE SCHOOL #4  
LEE'S SUMMIT R-7 SCHOOL DISTRICT

1001 SE BAILEY ROAD  
LEE'S SUMMIT, MO 64081

PACKAGE 2 -  
STRUCTURAL & SITE UTILITIES  
ISSUE FOR PERMIT  
8/28/20  
REVISIONS  
1 ASH-01 10/08/20

13-20102-00  
ROOF FRAMING  
PLAN - AREA C

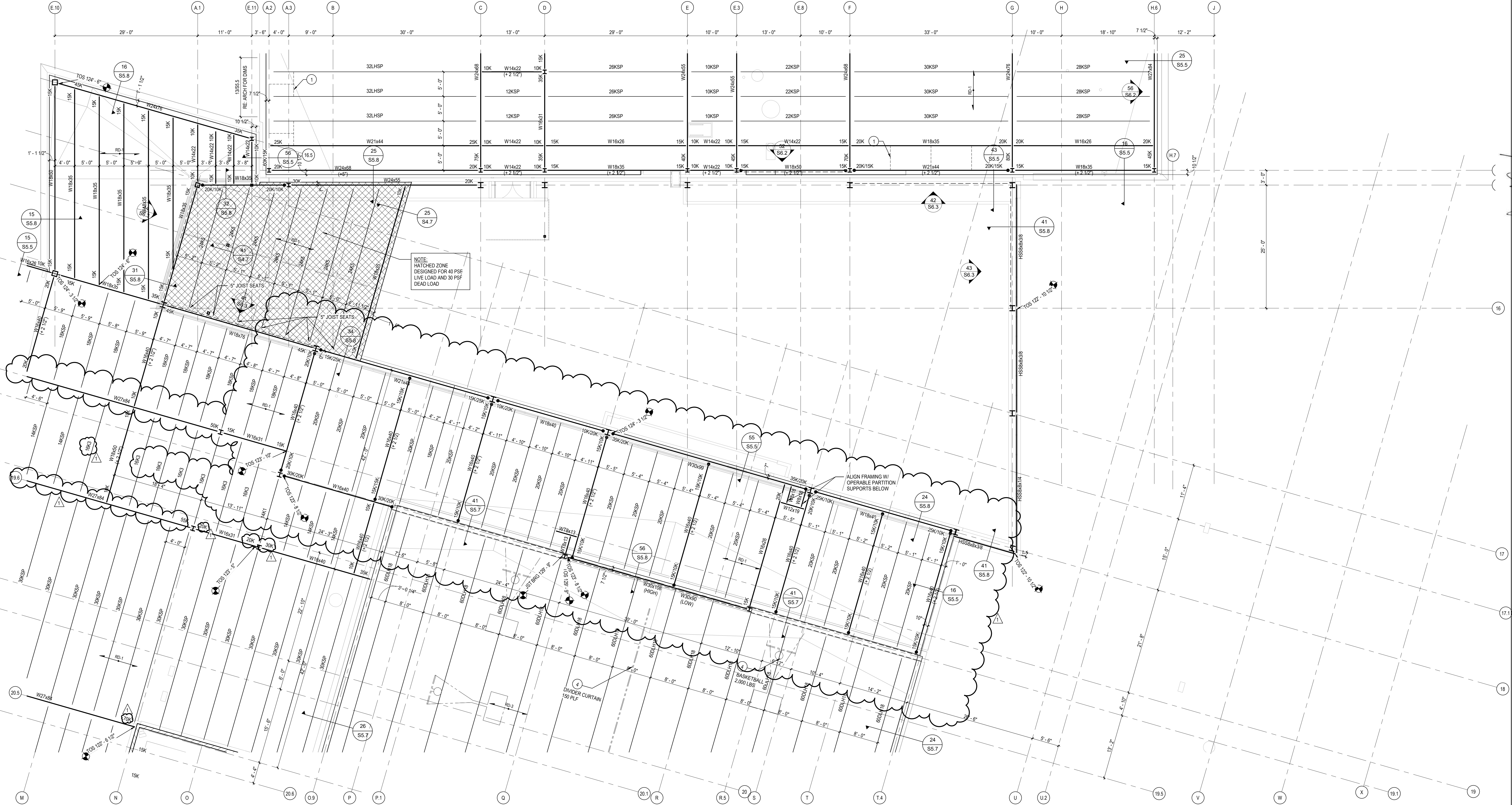
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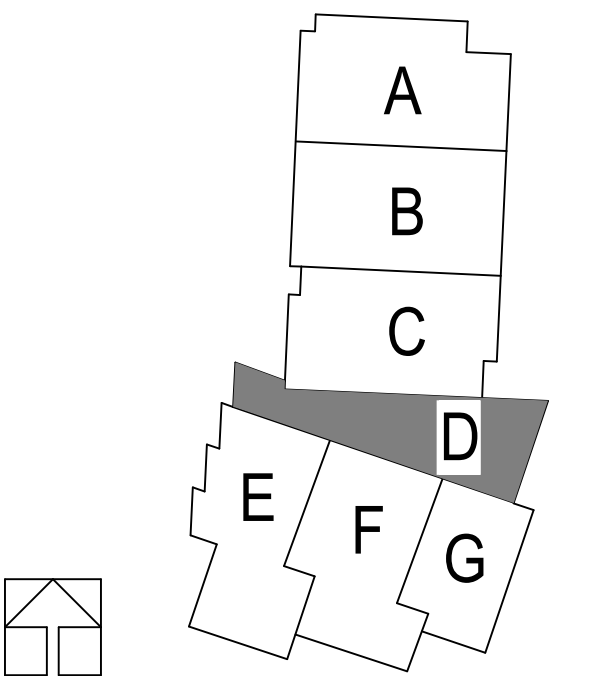
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ROOF FRAMING PLAN - AREA D  
SCALE: 1/8" = 1'-0"

NORTH



KEY PLAN



1. BOTTOM FLANGE BRACE PER TYPICAL DETAIL PER 905A.2 AND 915S.1
2. ROOF HATCH PER ARCHITECTURAL DRAWINGS. PROVIDE 22/55.1.
3. MECHANICAL UNIT OF MAXIMUM WEIGHT INDICATED. CONFIRM WITH MECHANICAL SUPPLIER
4. GYM EQUIPMENT ALLOWANCE OF WEIGHT INDICATED. CONFIRM WEIGHT AND DETAILS WITH ACTUAL EQUIPMENT SELECTED. CONNECTIONS TO ROOF STRUCTURE IS BY THE GYM EQUIPMENT SUPPLIER.

LEE'S SUMMIT MIDDLE SCHOOL #4  
LEE'S SUMMIT R-7 SCHOOL DISTRICT

PACKAGE 3 - BUILDING & SITE  
- ISSUE FOR PERMIT  
10/08/20  
REVISIONS  
1. ADDENDUM 002 10/19/20

13-20102-00

ROOF FRAMING  
PLAN - AREA D

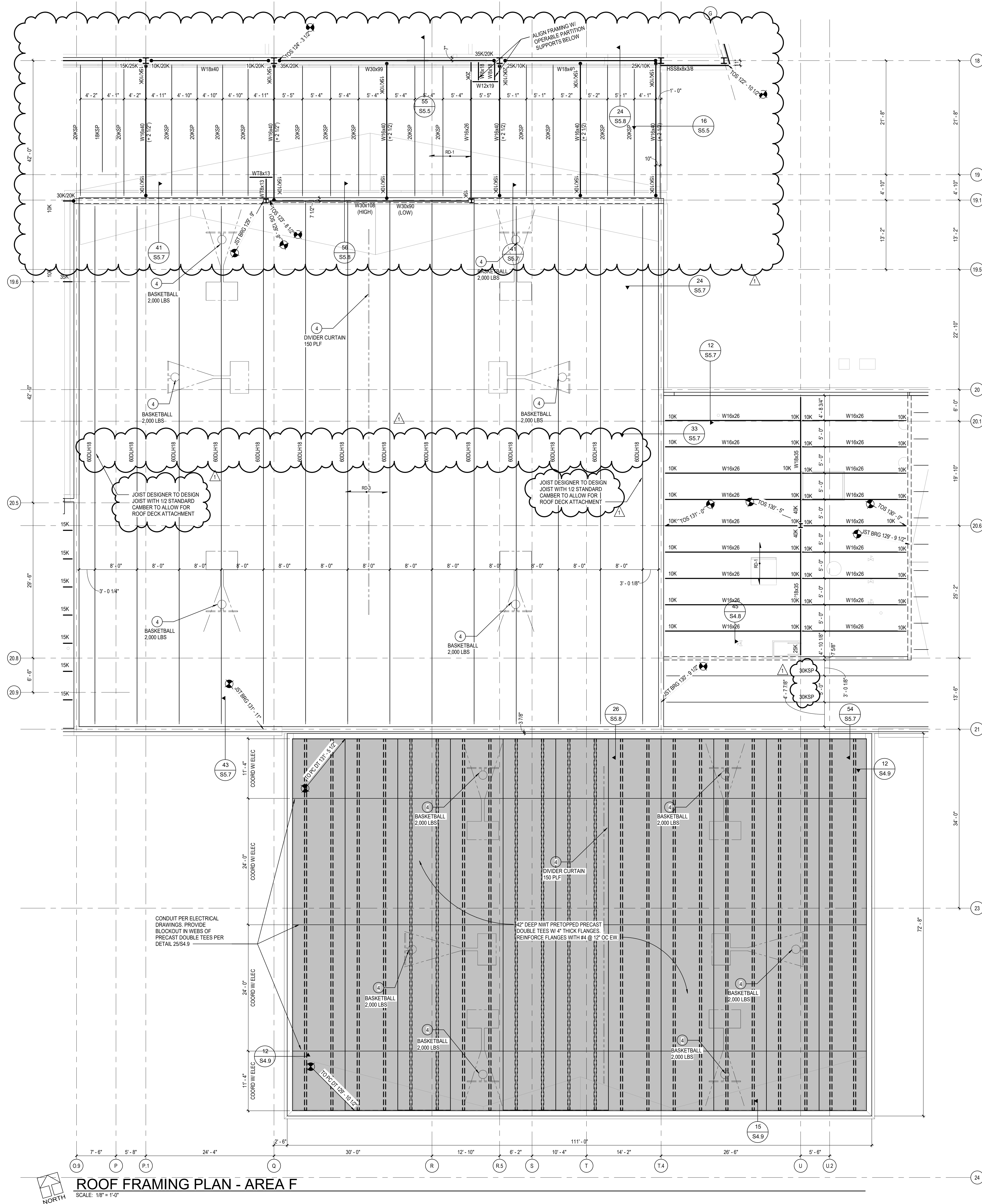
S2.2D



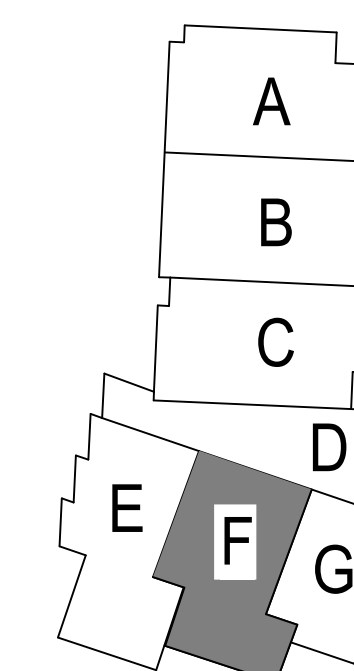
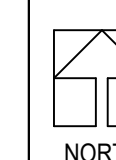




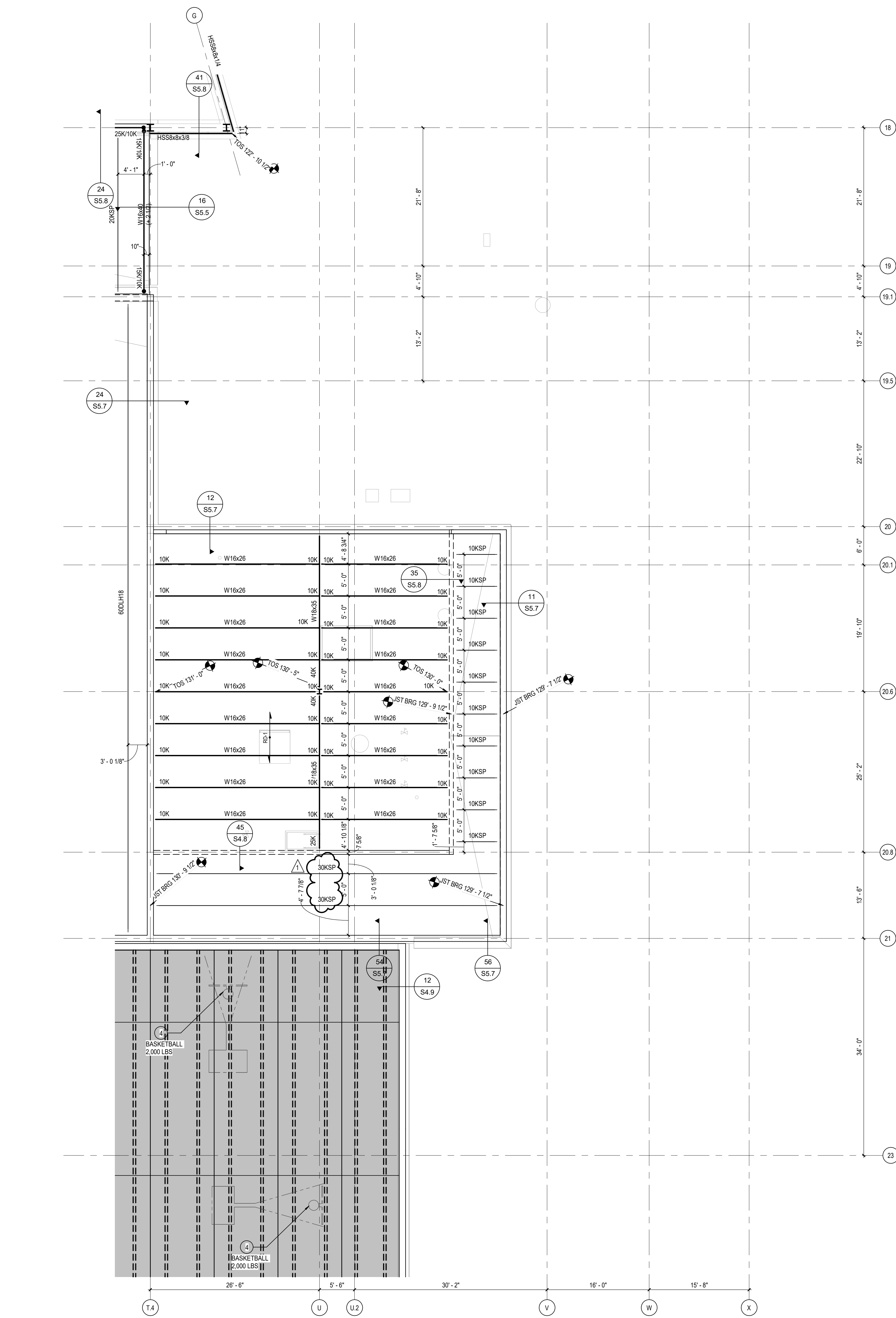




- 1 BOTTOM FLANGE BRACE PER TYPICAL DETAIL PER  
56/S4.2 AND 51/S5.1
- 2 ROOF HATCH PER ARCHITECTURAL DRAWINGS.  
PROVIDE 22/S5.1.
- 3 MECHANICAL UNIT OF MAXIMUM WEIGHT INDICATED,  
CONFIRM WITH MECHANICAL SUPPLIER.
- 4 GYM EQUIPMENT ALLOWANCE OF WEIGHT INDICATED.  
CONFIRM WEIGHT AND DETAILS WITH ACTUAL  
EQUIPMENT SELECTED. CONNECTIONS TO ROOF  
STRUCTURE IS BY THE GYM EQUIPMENT SUPPLIER.







- 1 BOTTOM FLANGE BRACE PER TYPICAL DETAIL PER 56/54.2 AND 51/55.1
- 2 ROOF HATCH PER ARCHITECTURAL DRAWINGS. PROVIDE 22/55.1.
- 3 MECHANICAL UNIT OF MAXIMUM WEIGHT INDICATED, CONFIRM WITH MECHANICAL SUPPLIER.
- 4 GYM EQUIPMENT ALLOWANCE OF WEIGHT INDICATED, CONFIRM WEIGHT AND DETAILS WITH ACTUAL EQUIPMENT SELECTED. CONNECTIONS TO ROOF STRUCTURE IS BY THE GYM EQUIPMENT SUPPLIER.



KEY PLAN

A diagram showing the layout of the seven rooms (A-G) in the school. The rooms are arranged in a key plan. Room A is at the top, followed by B and C. D is to the right of C. E and F are at the bottom left, and G is at the bottom right, shaded grey.

LEE'S SUMMIT MIDDLE SCHOOL #4

1001 SE BAILEY ROAD  
LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE  
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10/08/20  
REVISIONS  
1 ADDENDUM 002 10/19/20

13-20102-00

ROOF FRAMING  
PLAN - AREA G

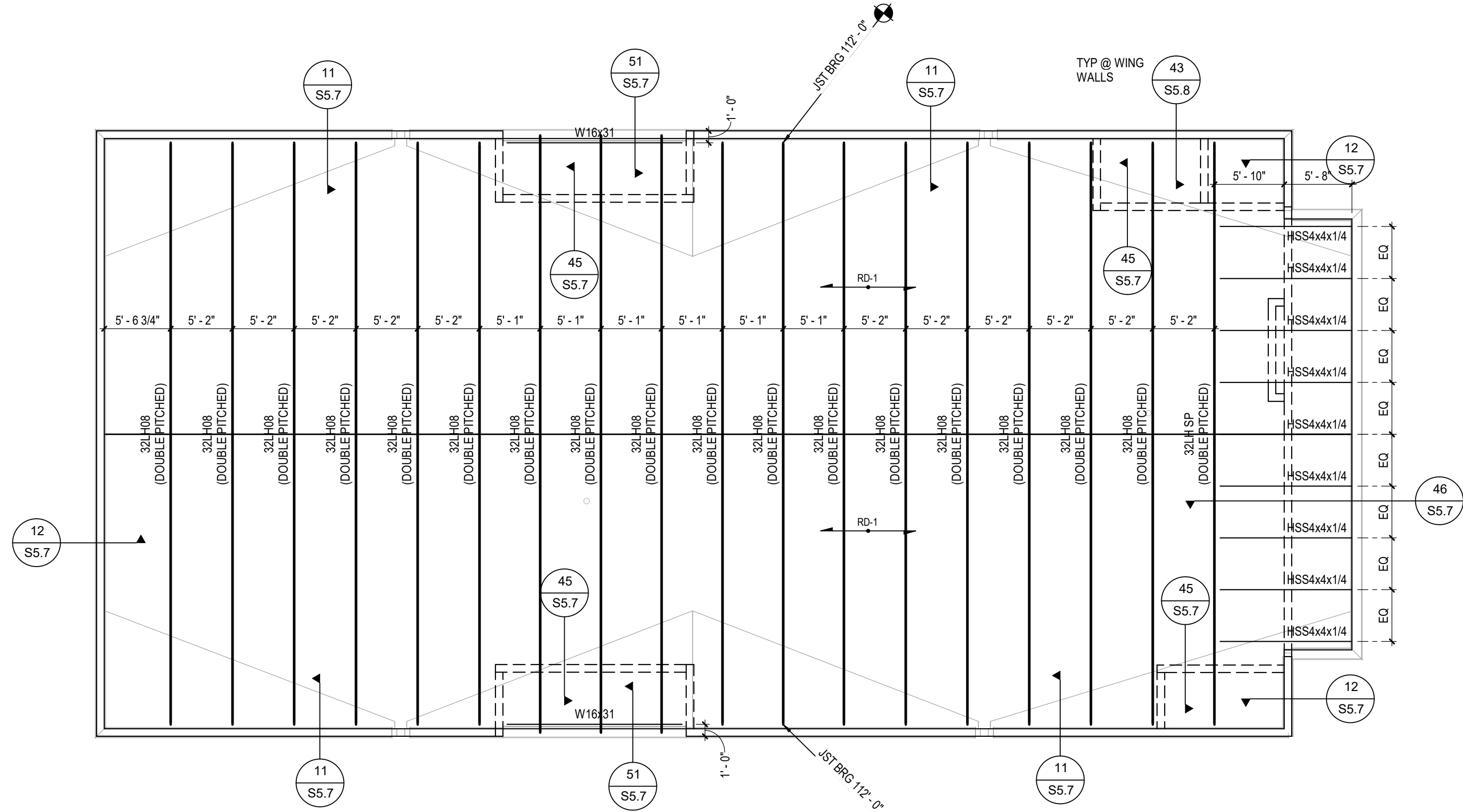
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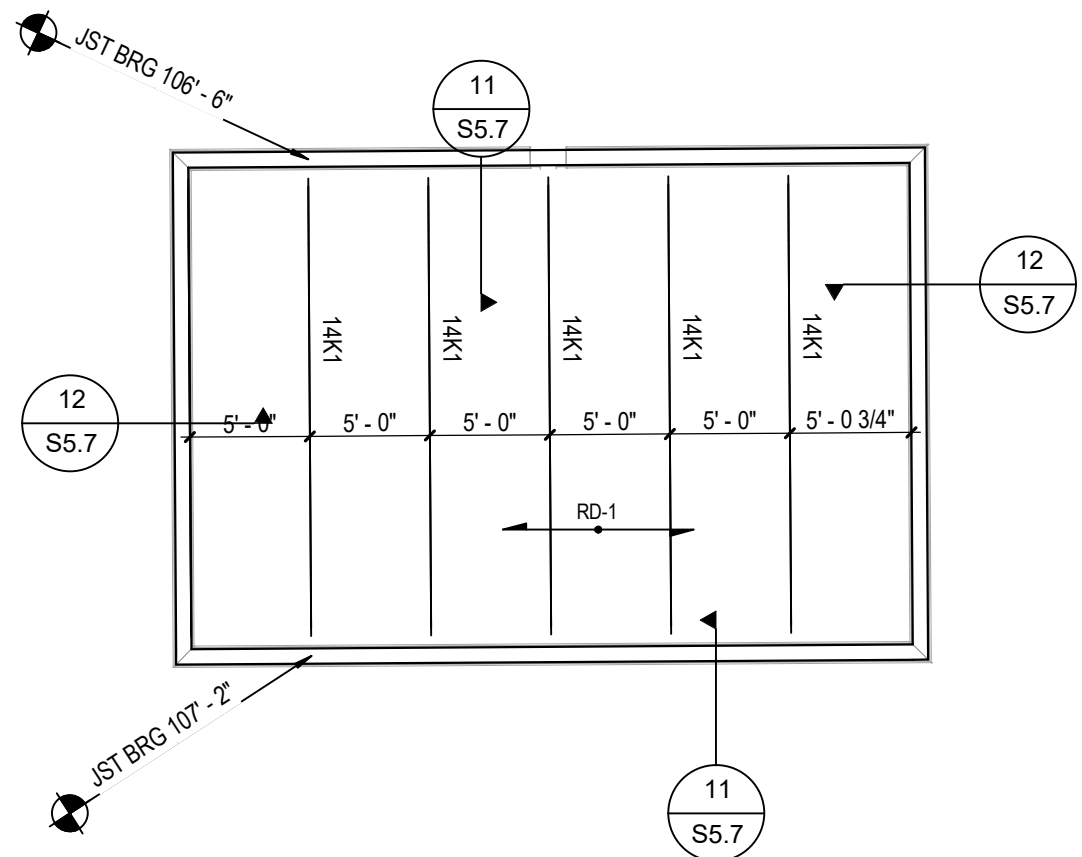


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 **ROOF FRAMING PLAN - AREA S**  
SCALE: 1/8" = 1'-0"



 **ROOF FRAMING PLAN - AREA T**  
SCALE: 1/8" = 1'-0"



- 1 BOTTOM FLANGE BRACE PER TYPICAL DETAIL PER 56/54.2 AND 51/55.1
- 2 ROOF HATCH PER ARCHITECTURAL DRAWINGS. PROVIDE 22/55.1.
- 3 MECHANICAL UNIT OF MAXIMUM WEIGHT INDICATED, CONFIRM WITH MECHANICAL SUPPLIER.
- 4 GYM EQUIPMENT ALLOWANCE OF WEIGHT INDICATED, CONFIRM WEIGHT AND DETAILS WITH ACTUAL EQUIPMENT SELECTED. CONNECTIONS TO ROOF STRUCTURE IS BY THE GYM EQUIPMENT SUPPLIER.

**LEE'S SUMMIT MIDDLE SCHOOL #4**

LEE'S SUMMIT R-7 SCHOOL DISTRICT

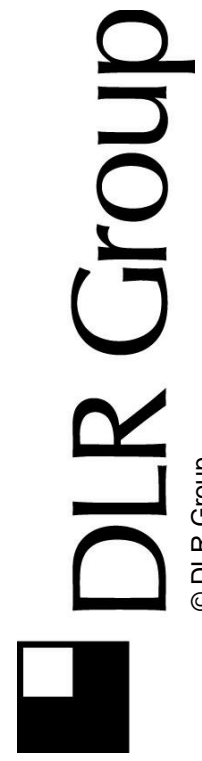
1001 SE BAILEY ROAD  
LEE'S SUMMIT, MO 64681

PACKAGE 3 - BUILDING & SITE  
- ISSUE FOR PERMIT  
10/08/20  
REVISIONS

13-20102-00

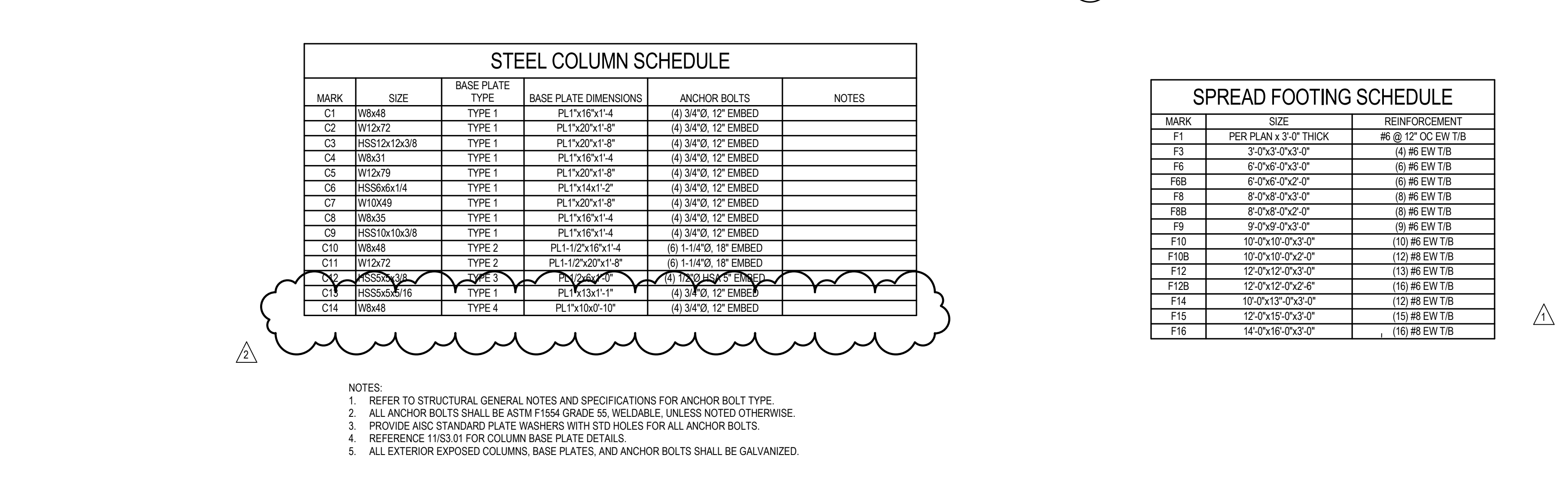
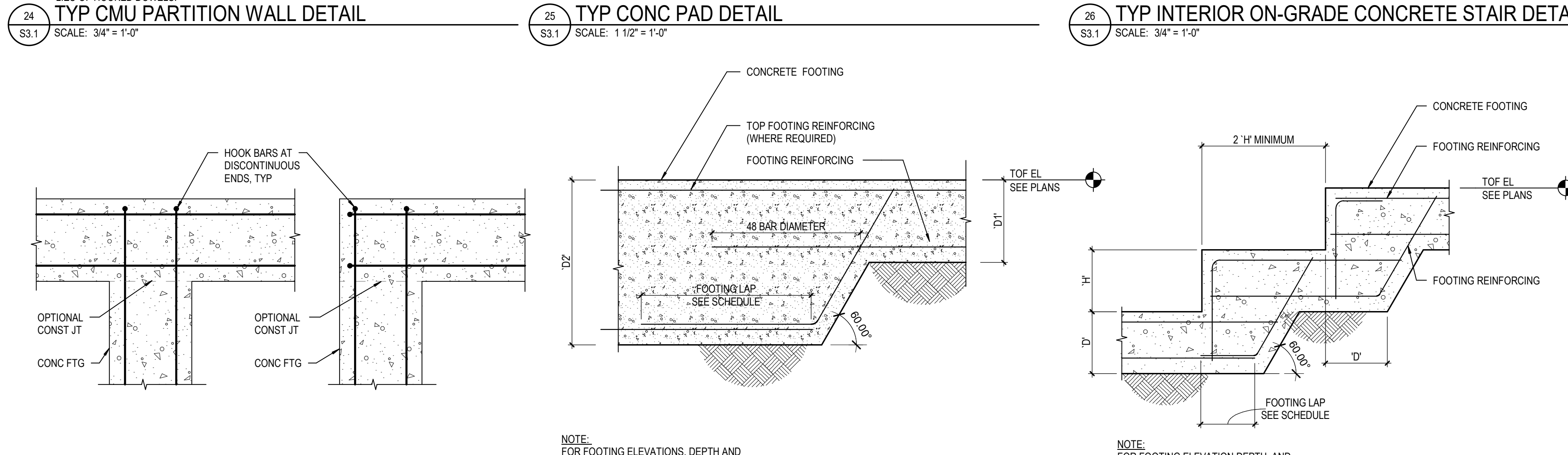
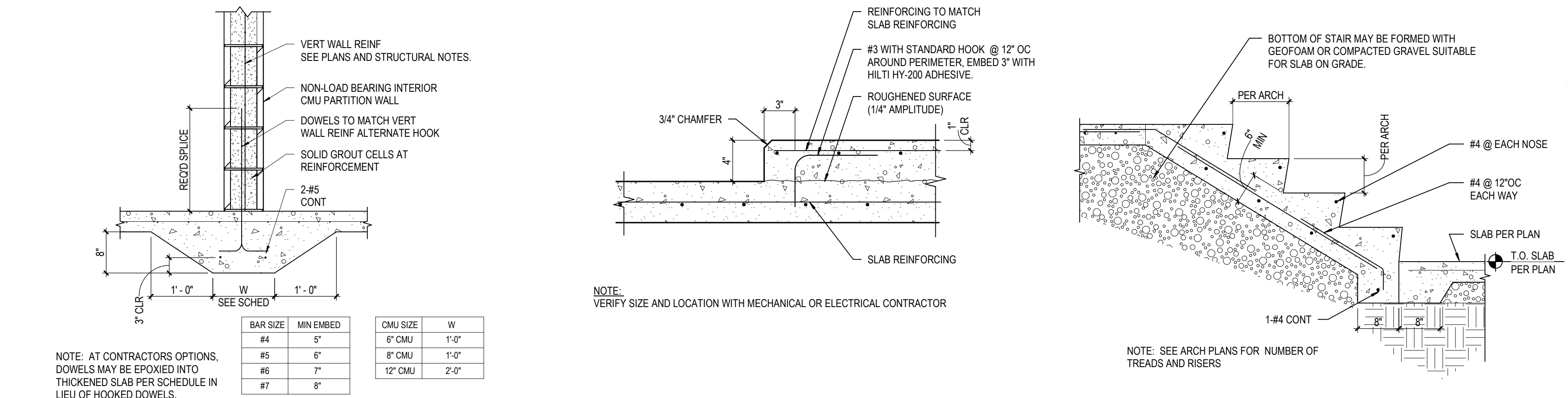
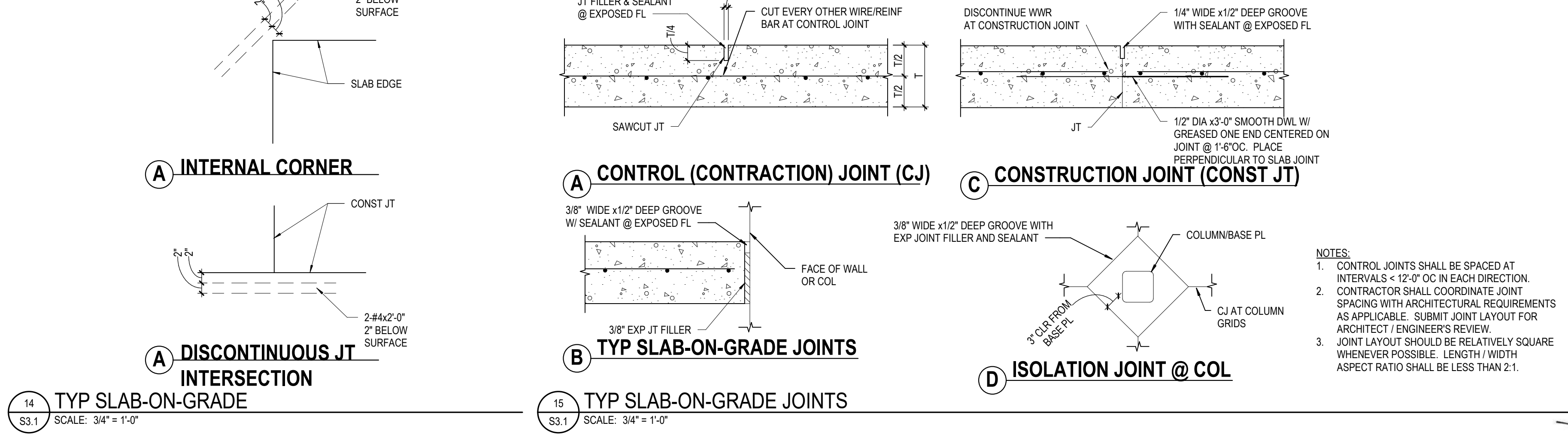
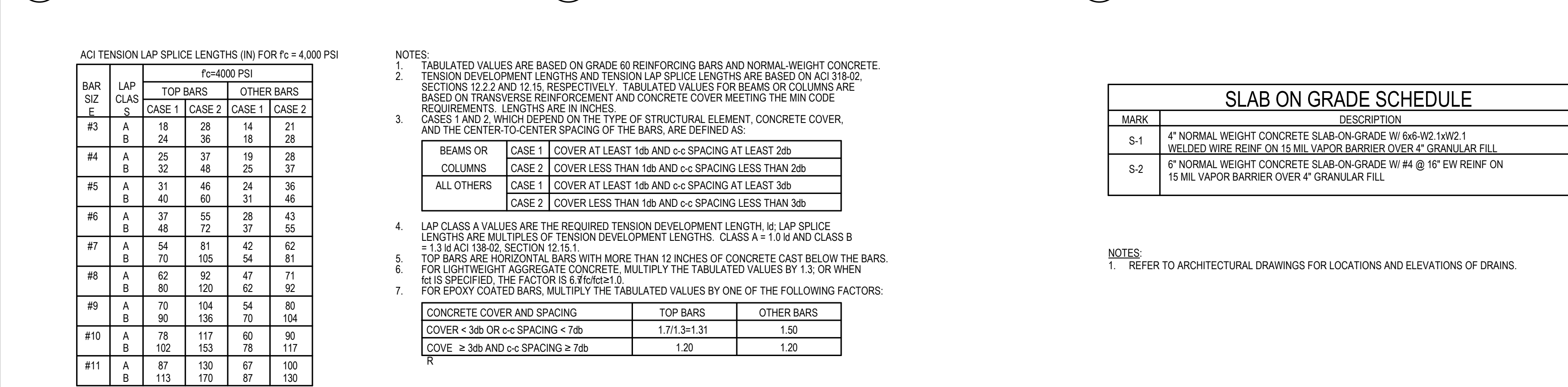
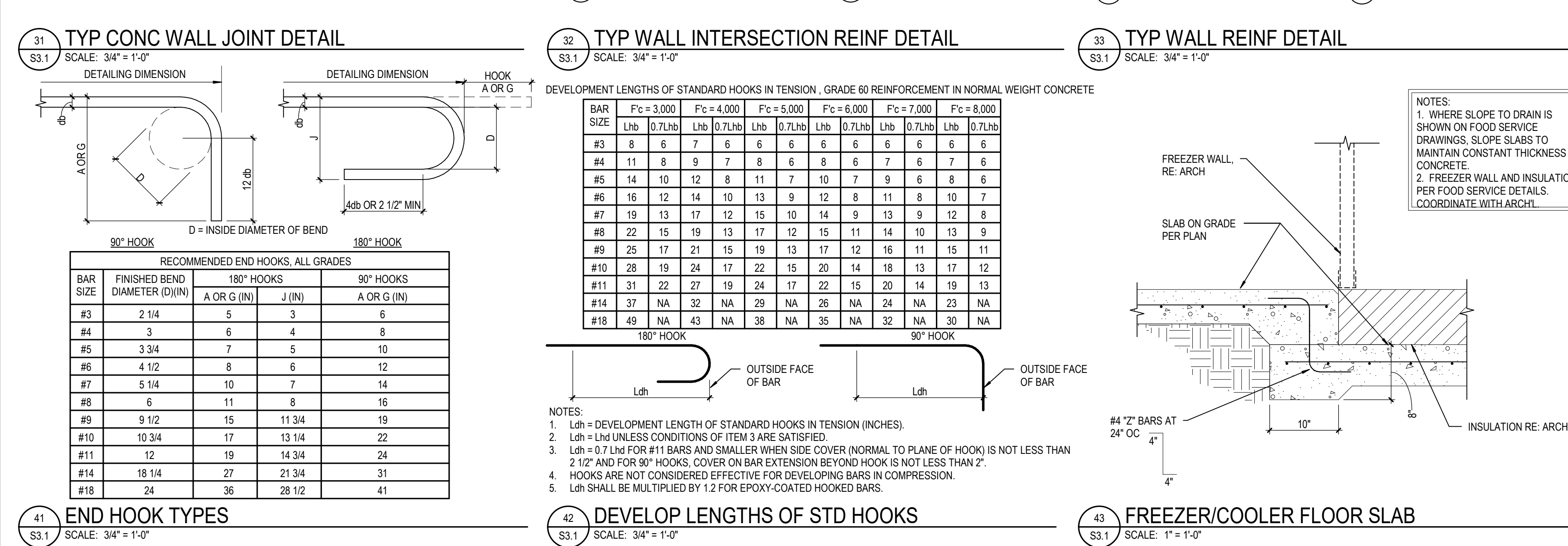
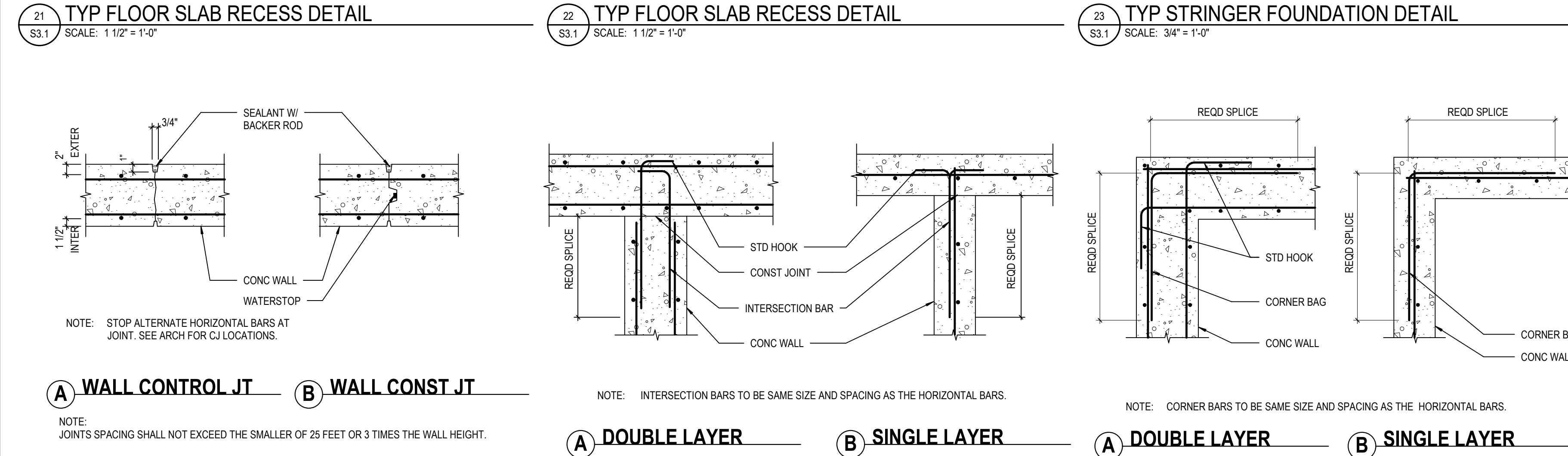
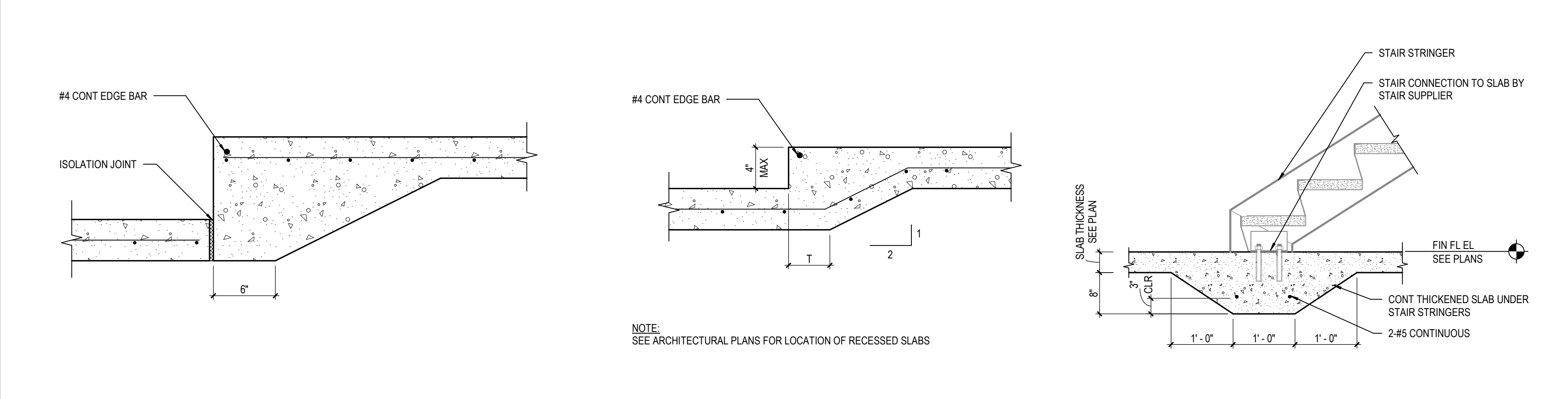
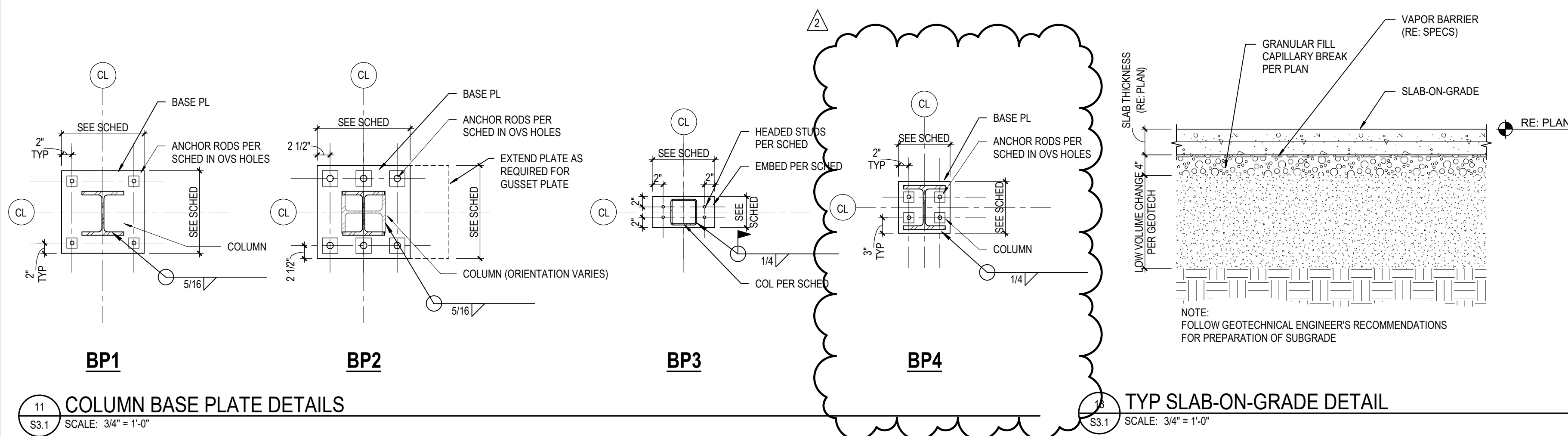
ROOF FRAMING  
PLAN - AREAS S &  
T

**S2.2S**

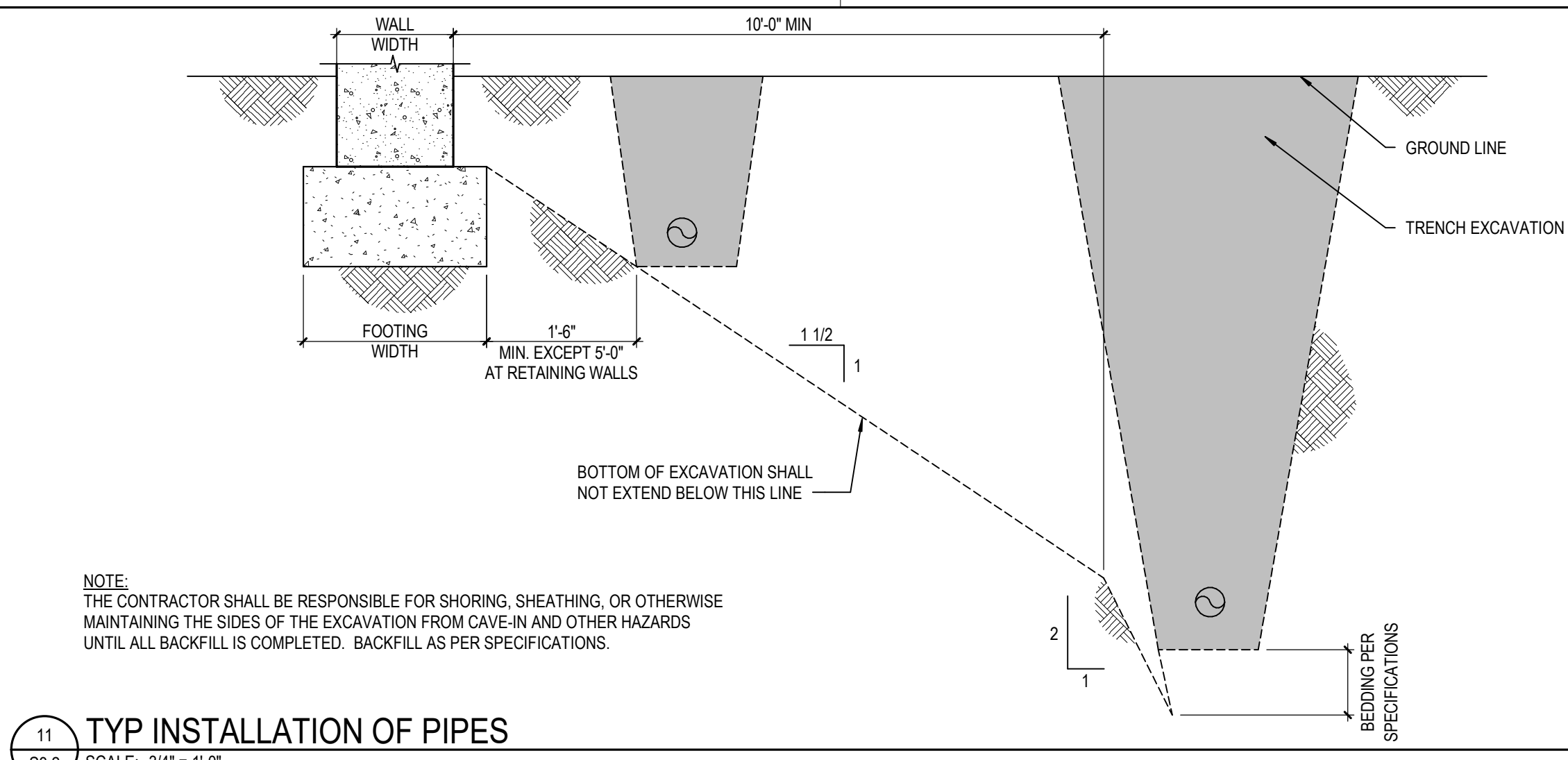


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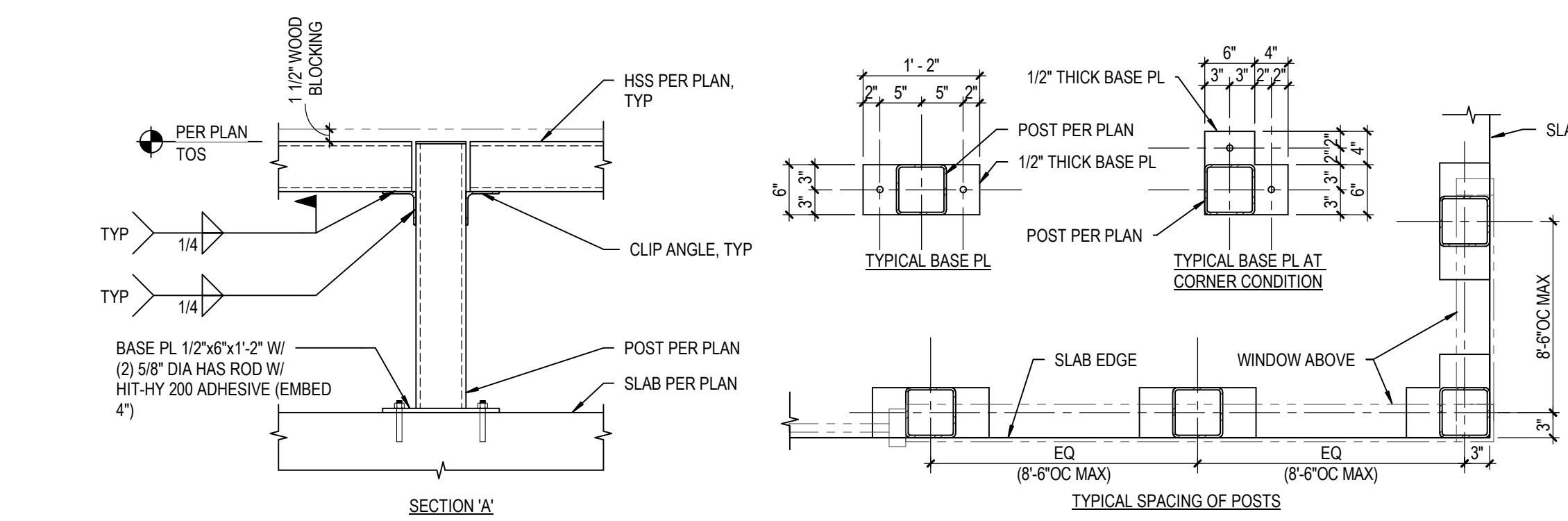




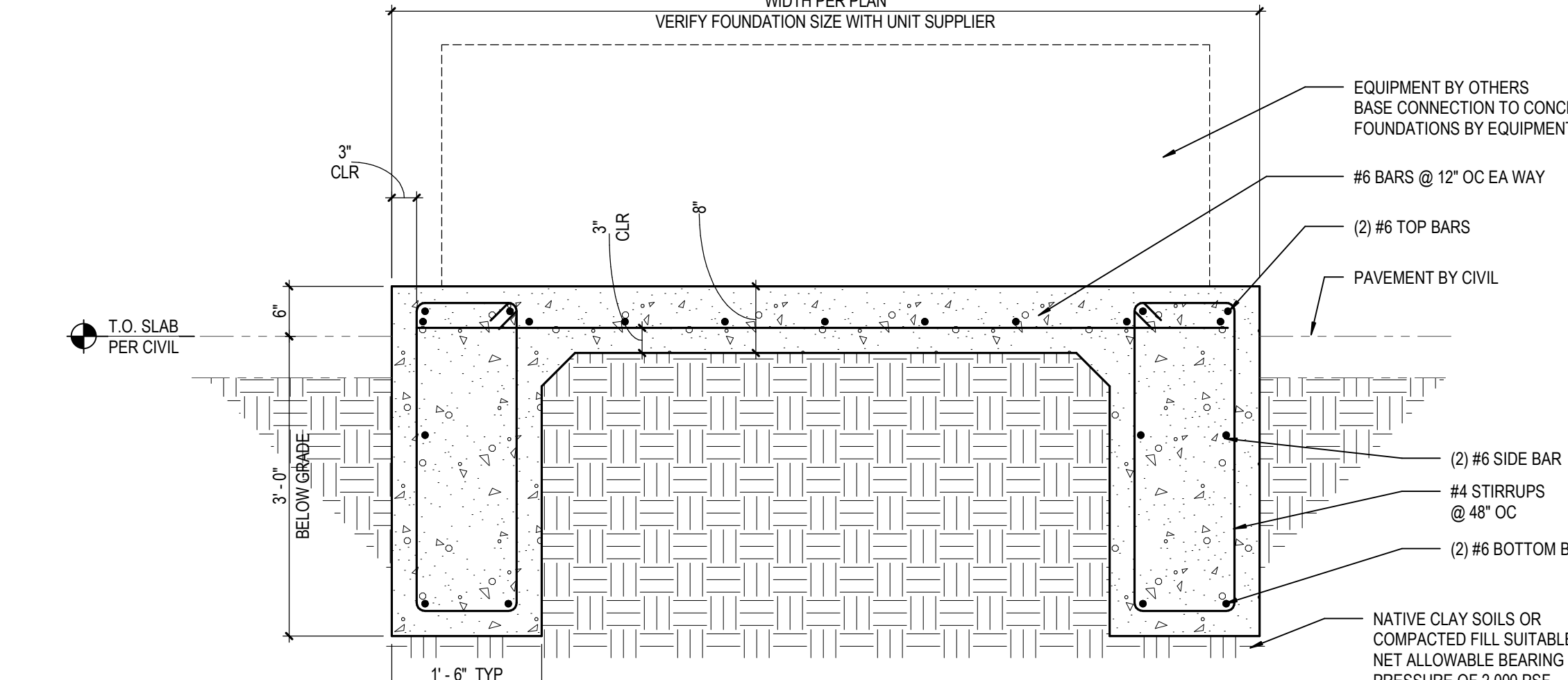




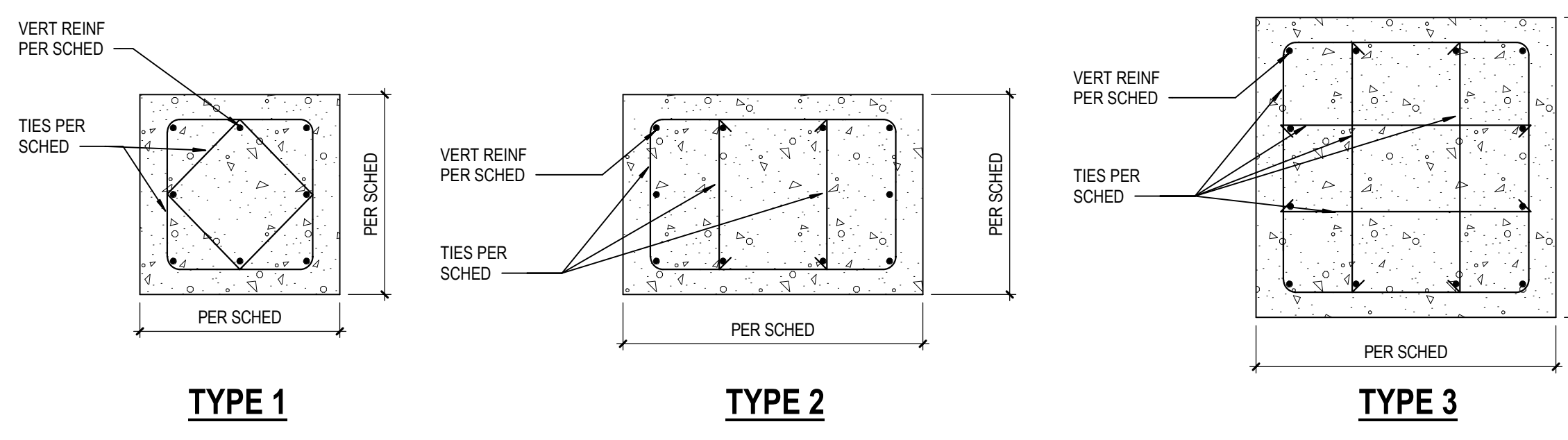
11 TYP INSTALLATION OF PIPES  
S3.2 SCALE: 3/4" = 1'-0"



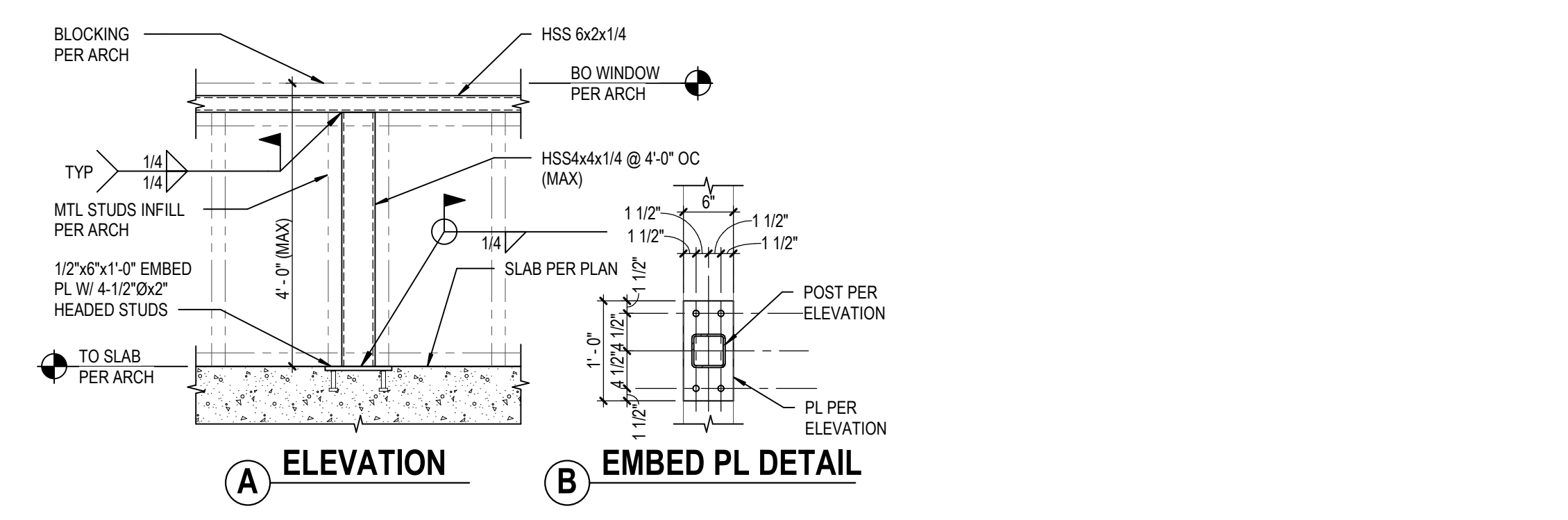
21 TYP WINDOW OR LOUVER FRAMING SUPPORTS  
S3.2 SCALE: 3/4" = 1'-0"



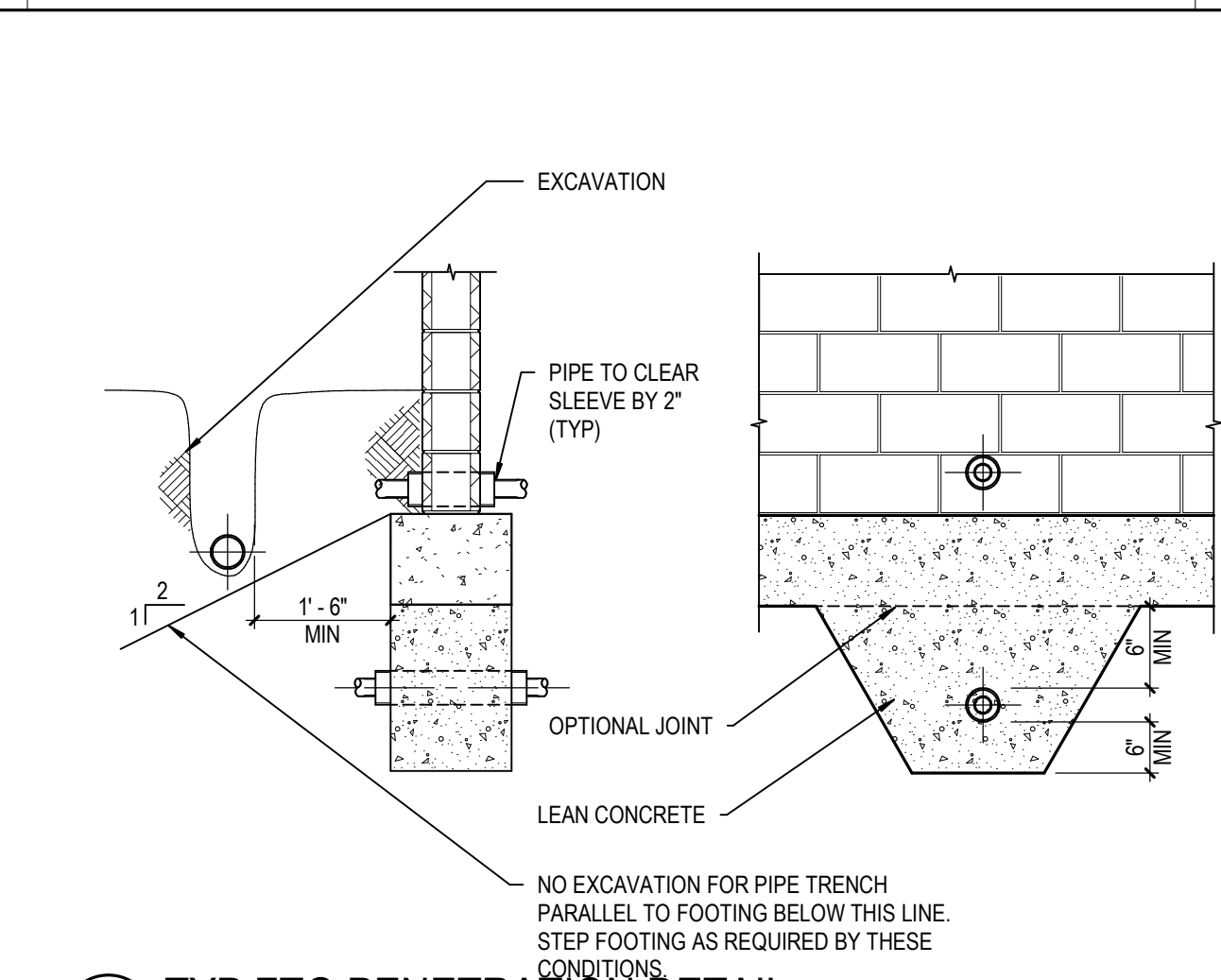
31 TYPICAL MECHANICAL EQUIPMENT FOUNDATION  
S3.2 SCALE: 3/4" = 1'-0"



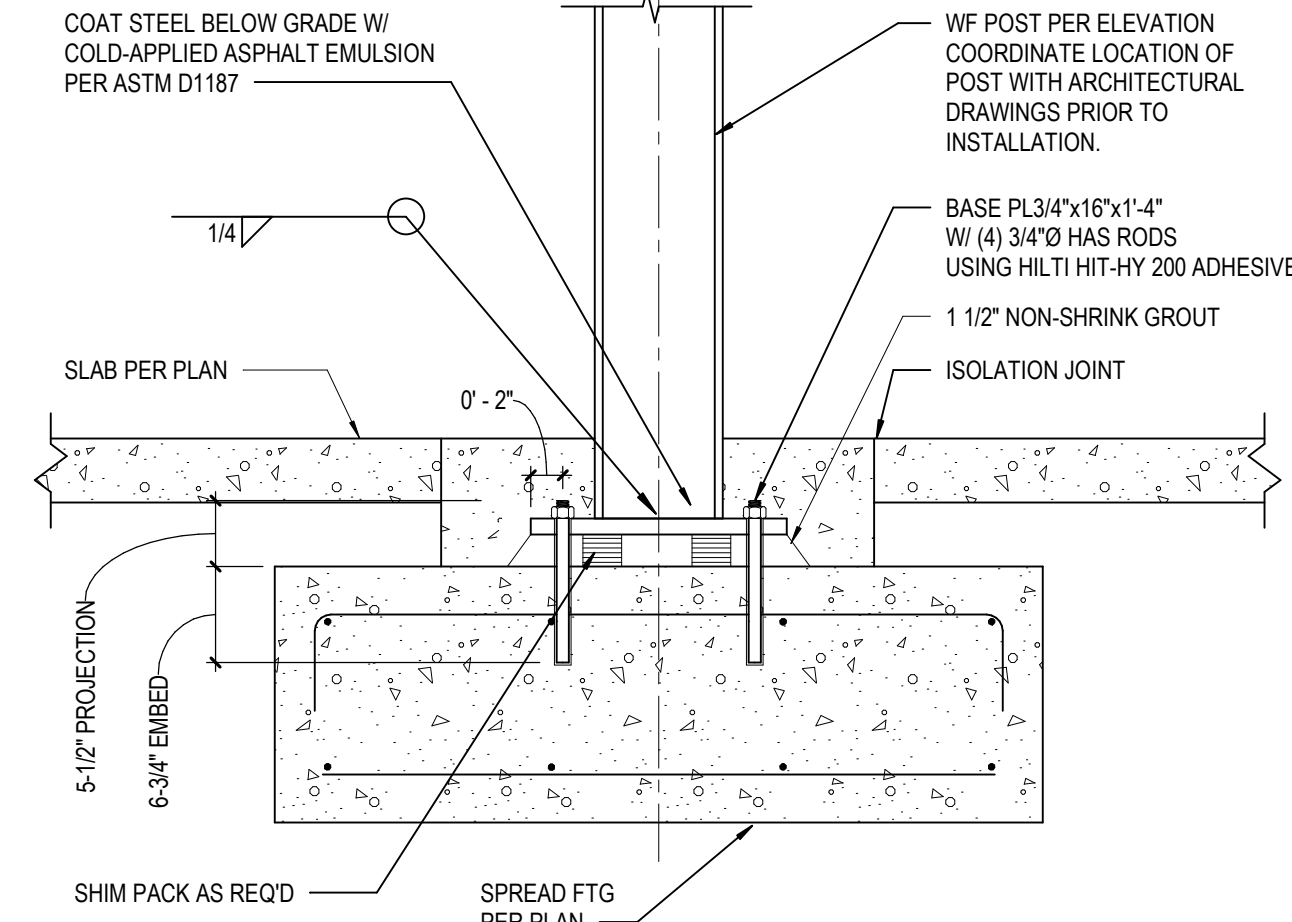
41 CONCRETE COLUMN SCHEDULE & REINF DETAILS  
S3.2 SCALE: 3/4" = 1'-0"



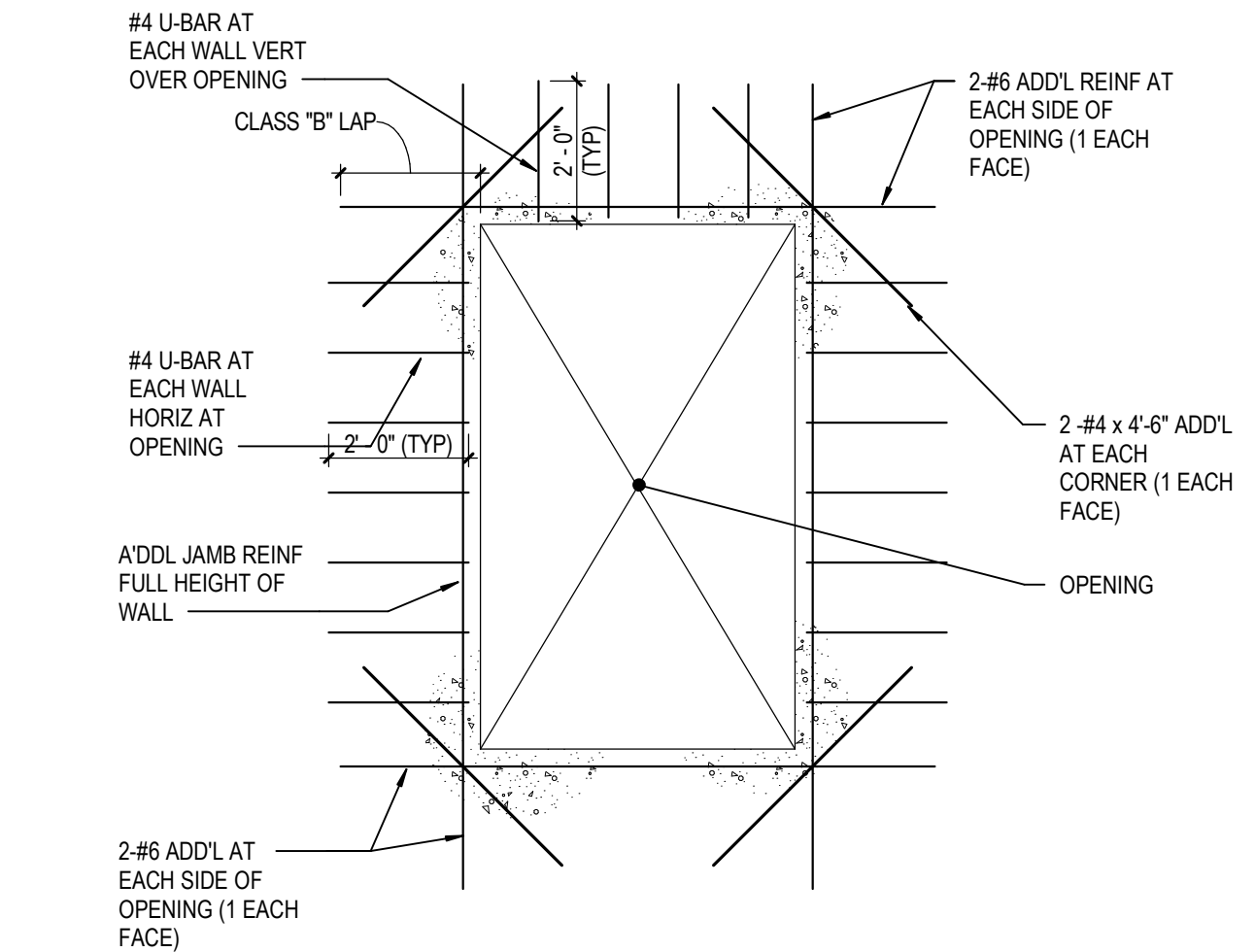
51 TYPICAL DETAIL  
S3.2 SCALE: 3/4" = 1'-0"



13 TYP FTG PENETRATION DETAIL  
S3.2 SCALE: 1/2" = 1'-0"

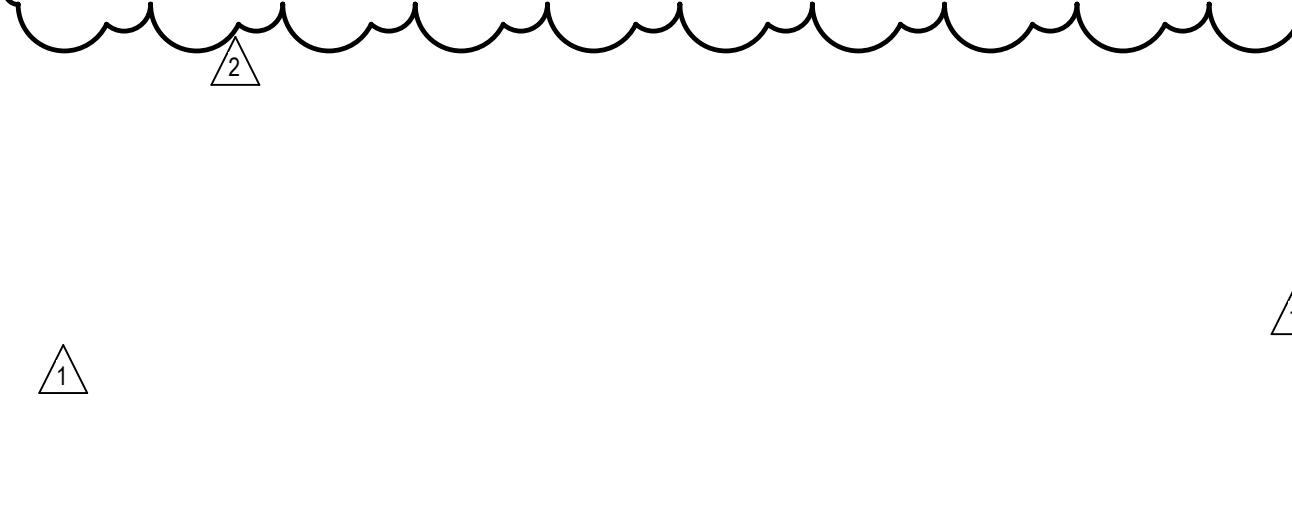


23 TYPICAL WF POST CONNECTION DETAIL  
S3.2 SCALE: 1" = 1'-0"



33 TYP REINFORCED WALL OPENING DETAIL  
S3.2 SCALE: 3/8" = 1'-0"

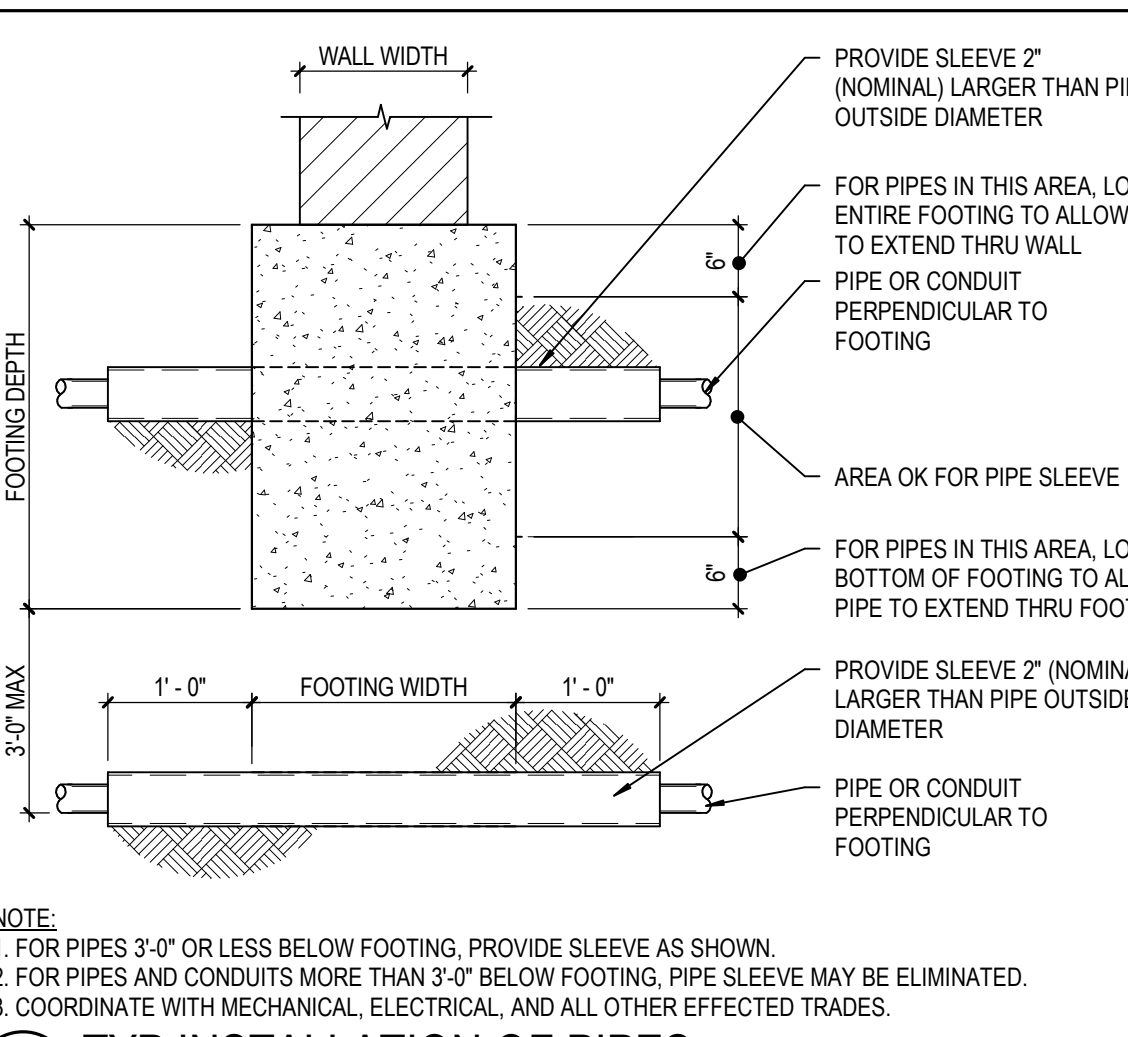
CONC COLUMN SCHEDULE				
MARK	SIZE	VERTICAL REINFORCEMENT	TIES	TYPE
CC1	24 x 24	(8) #5 VERT	#4 TIES @ 3R@12	TYPE 1
CC2	24 x 24	(10) #5 VERT	#4 TIES @ 3R@12	TYPE 2
CC3	36 x 36	(12) #8 VERT	#4 TIES @ 3R@12	TYPE 3
CC4	20 x 20	(6) #6 VERT	#4 TIES @ 3R@12	TYPE 1



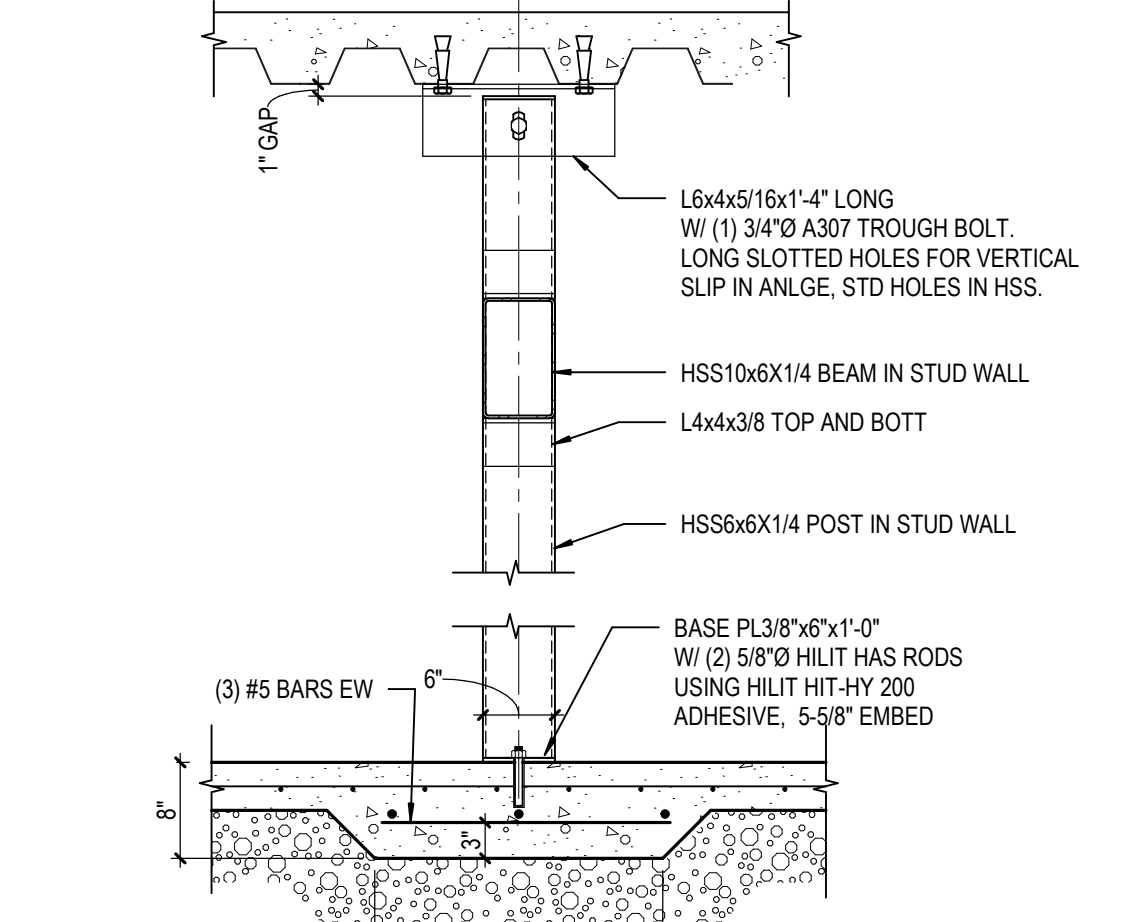
44 TYP COLUMN BASE ON CONC COLUMN DETAIL  
S3.2 SCALE: 3/4" = 1'-0"



54 TYP WF BASE CLOSURE PLATE DETAIL  
S3.2 SCALE: 1" = 1'-0"



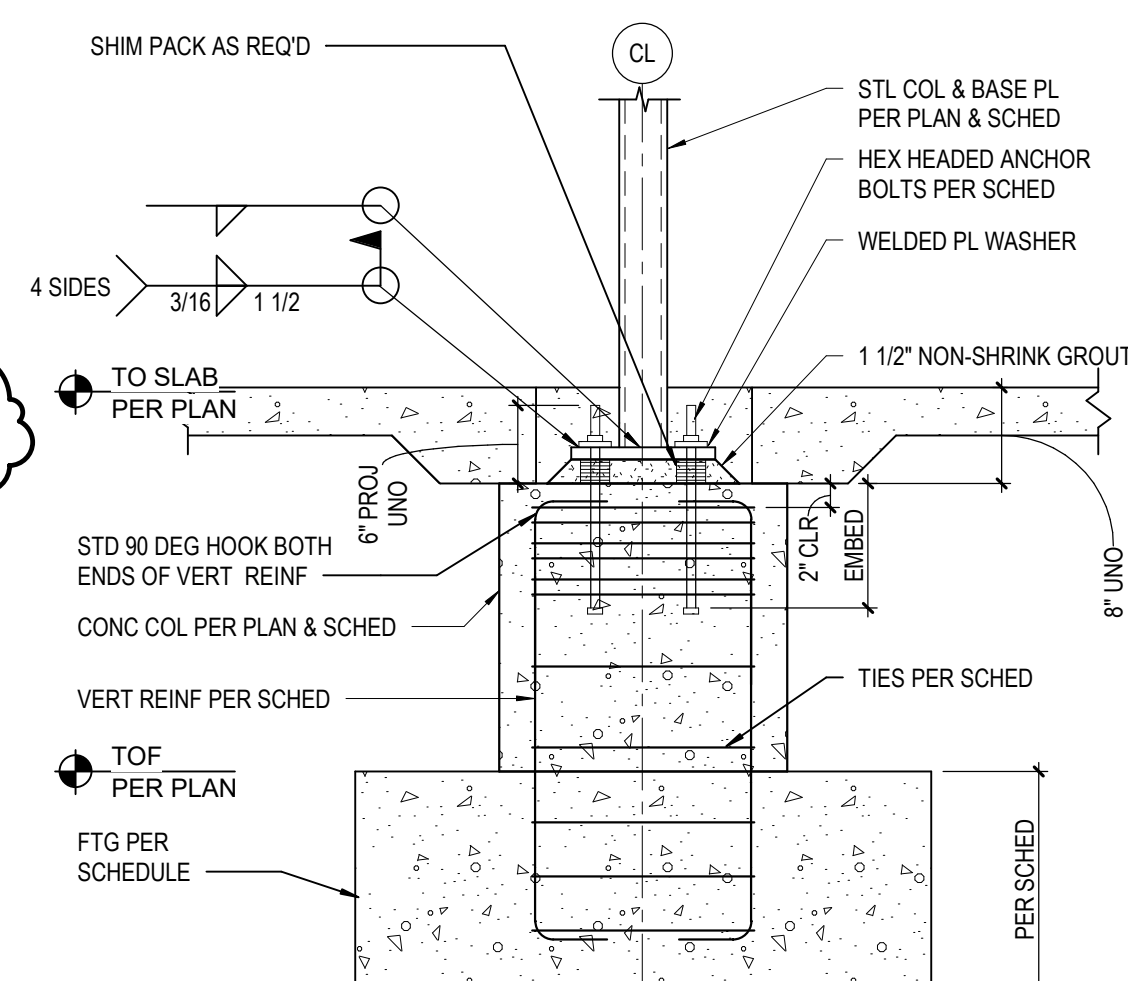
14 TYP INSTALLATION OF PIPES  
S3.2 SCALE: 3/4" = 1'-0"



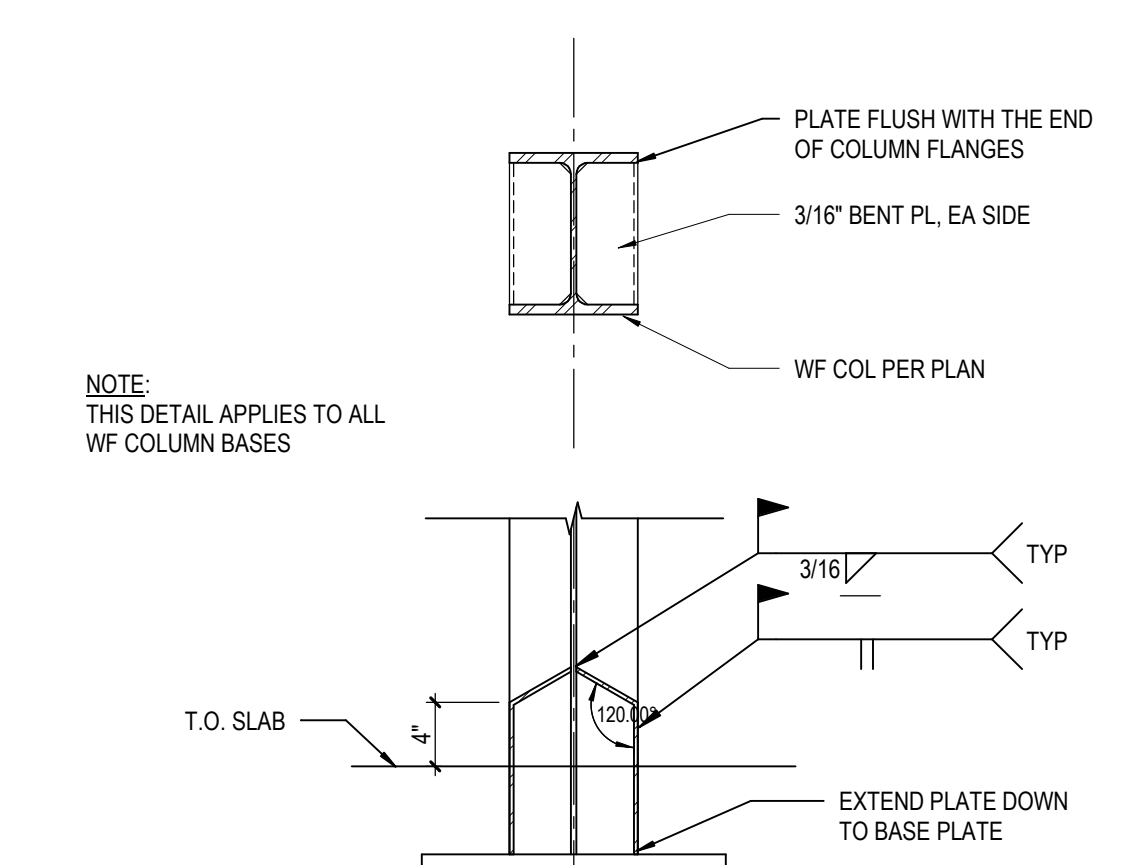
24 TYP STOREFRONT AT MAIN COMMONS DETAIL  
S3.2 SCALE: 3/4" = 1'-0"



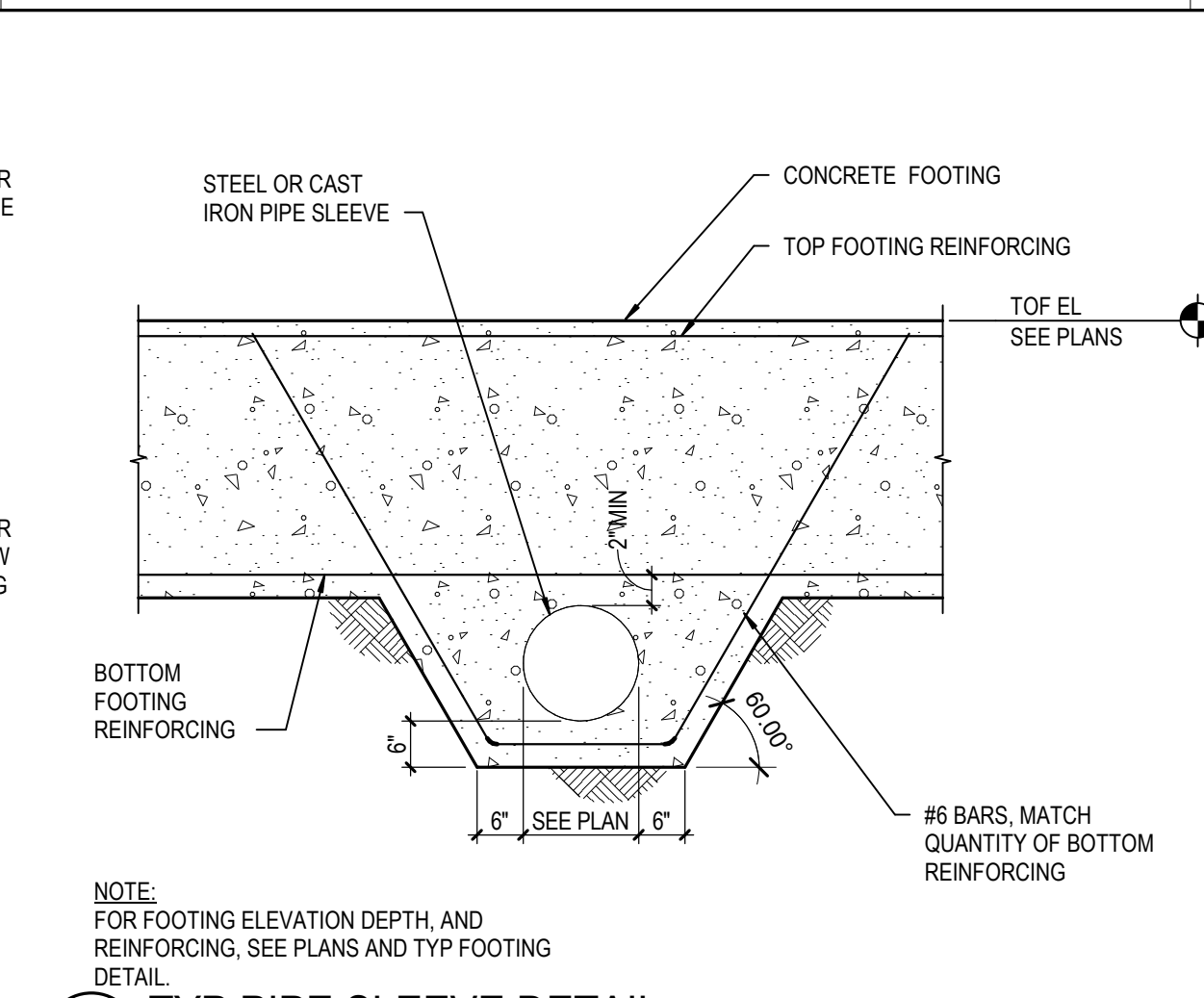
35 TYP PARTIAL HEIGHT WALL SUPPORT DETAIL  
S3.2 SCALE: 3/4" = 1'-0"



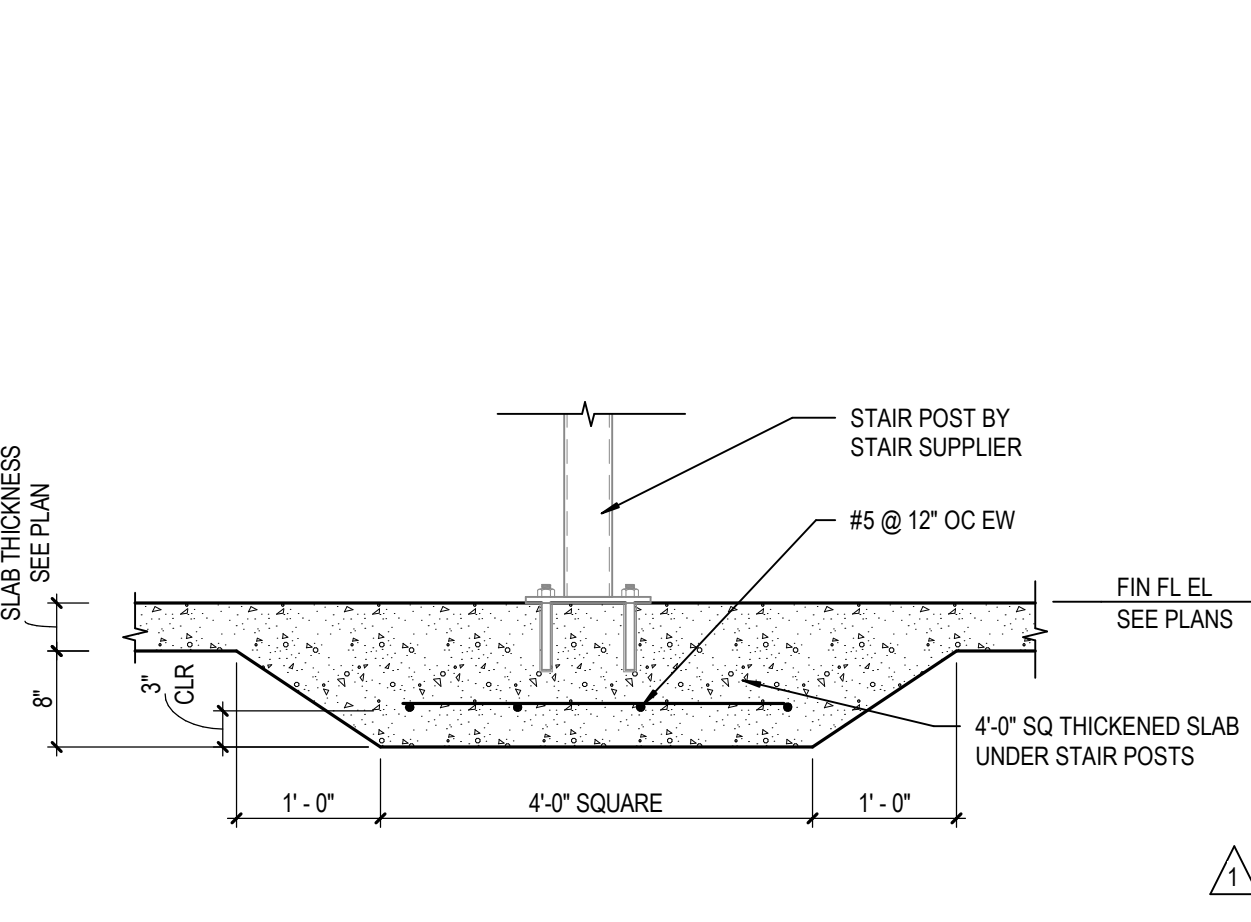
55 TYP ELEVATOR PIT DETAIL  
S3.2 SCALE: 1/2" = 1'-0"



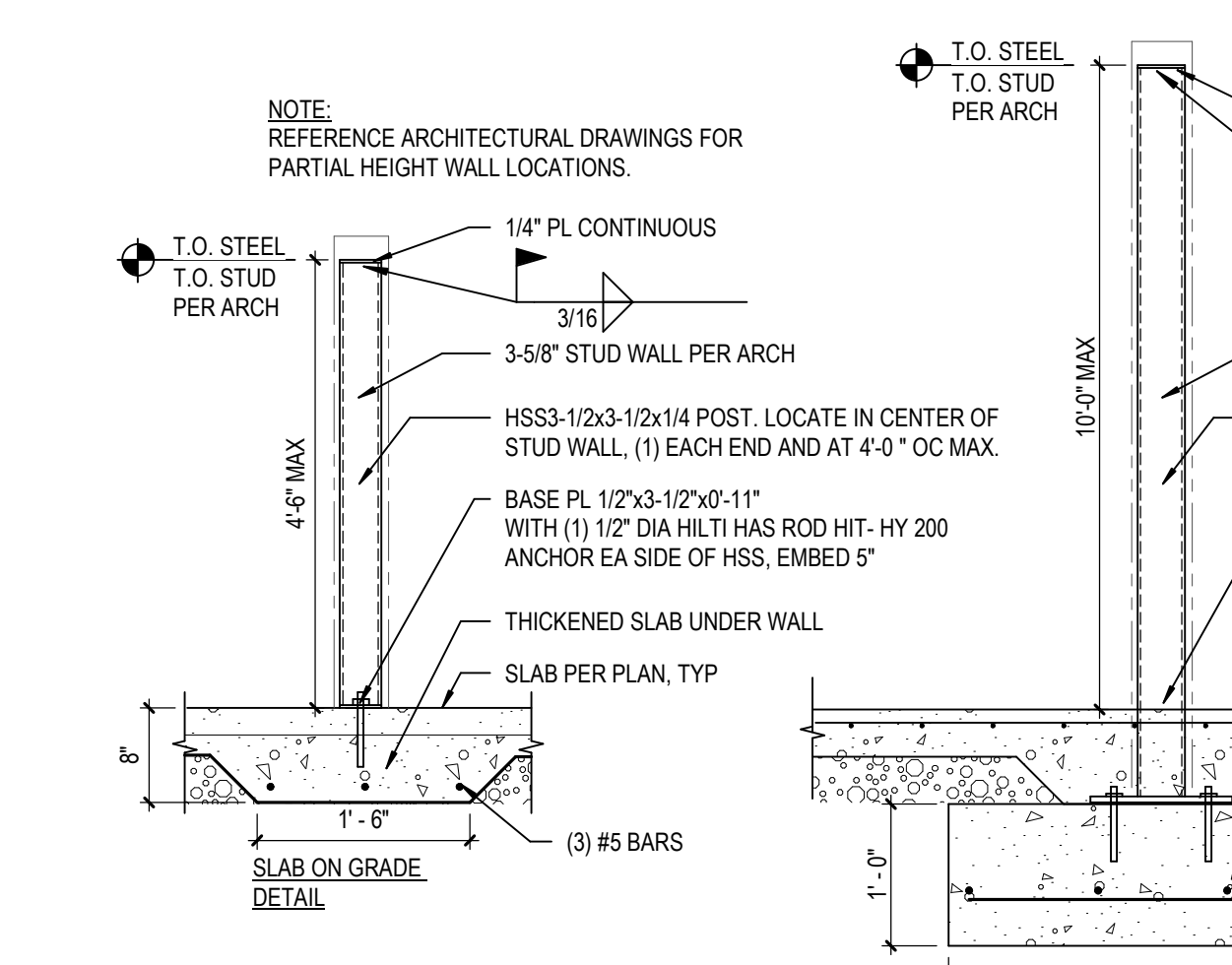
54 TYP WF BASE CLOSURE PLATE DETAIL  
S3.2 SCALE: 1" = 1'-0"



15 TYP PIPE SLEEVE DETAIL  
S3.2 SCALE: 1/2" = 1'-0"



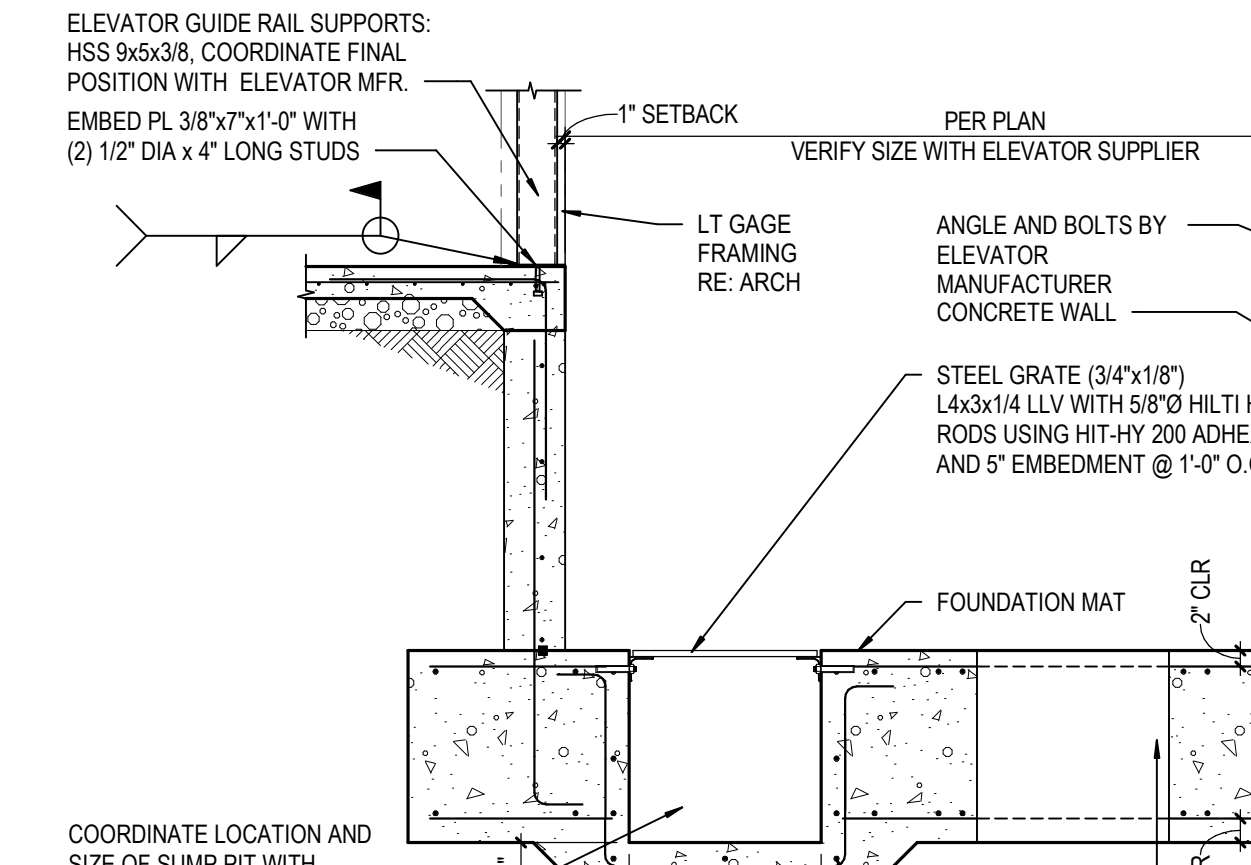
25 TYP STAIR POST BASE DETAIL  
S3.2 SCALE: 3/4" = 1'-0"



26 TYP TRENCH DRAIN & UTILITY TRENCH DETAIL  
S3.2 SCALE: 1 1/2" = 1'-0"



55 TYP ELEVATOR PIT DETAIL  
S3.2 SCALE: 1/2" = 1'-0"

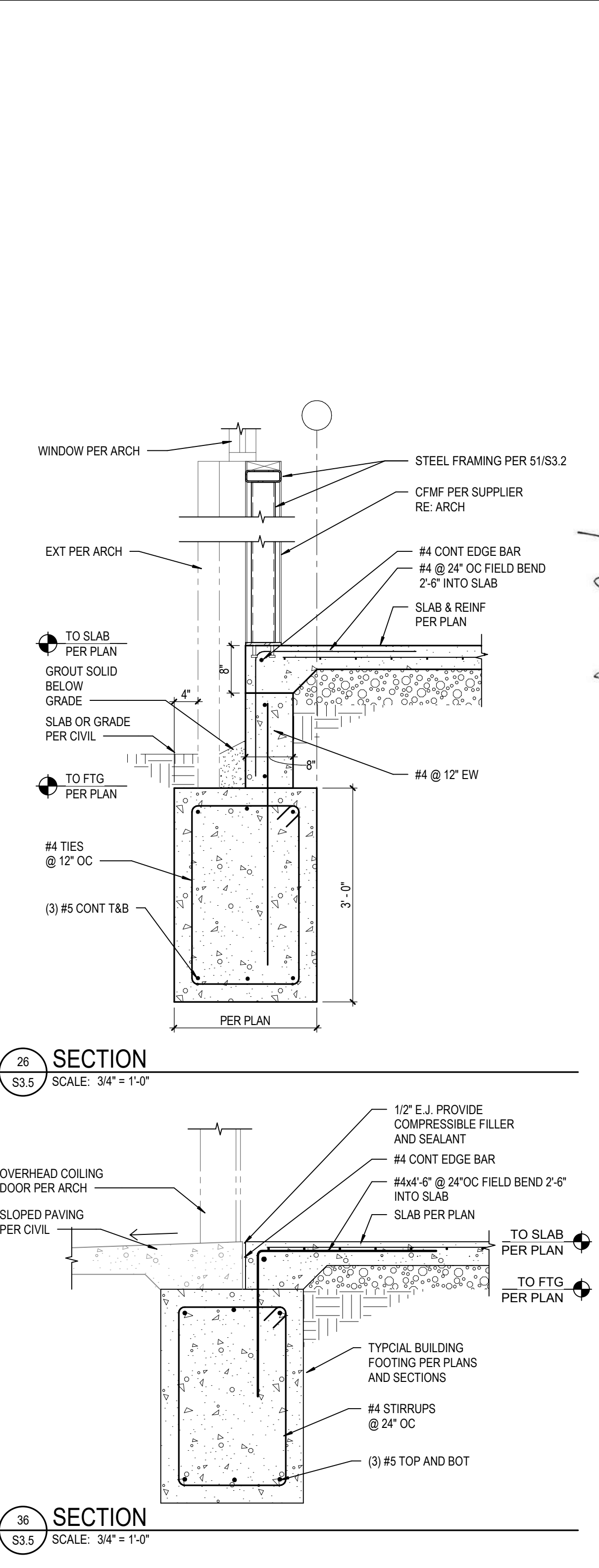
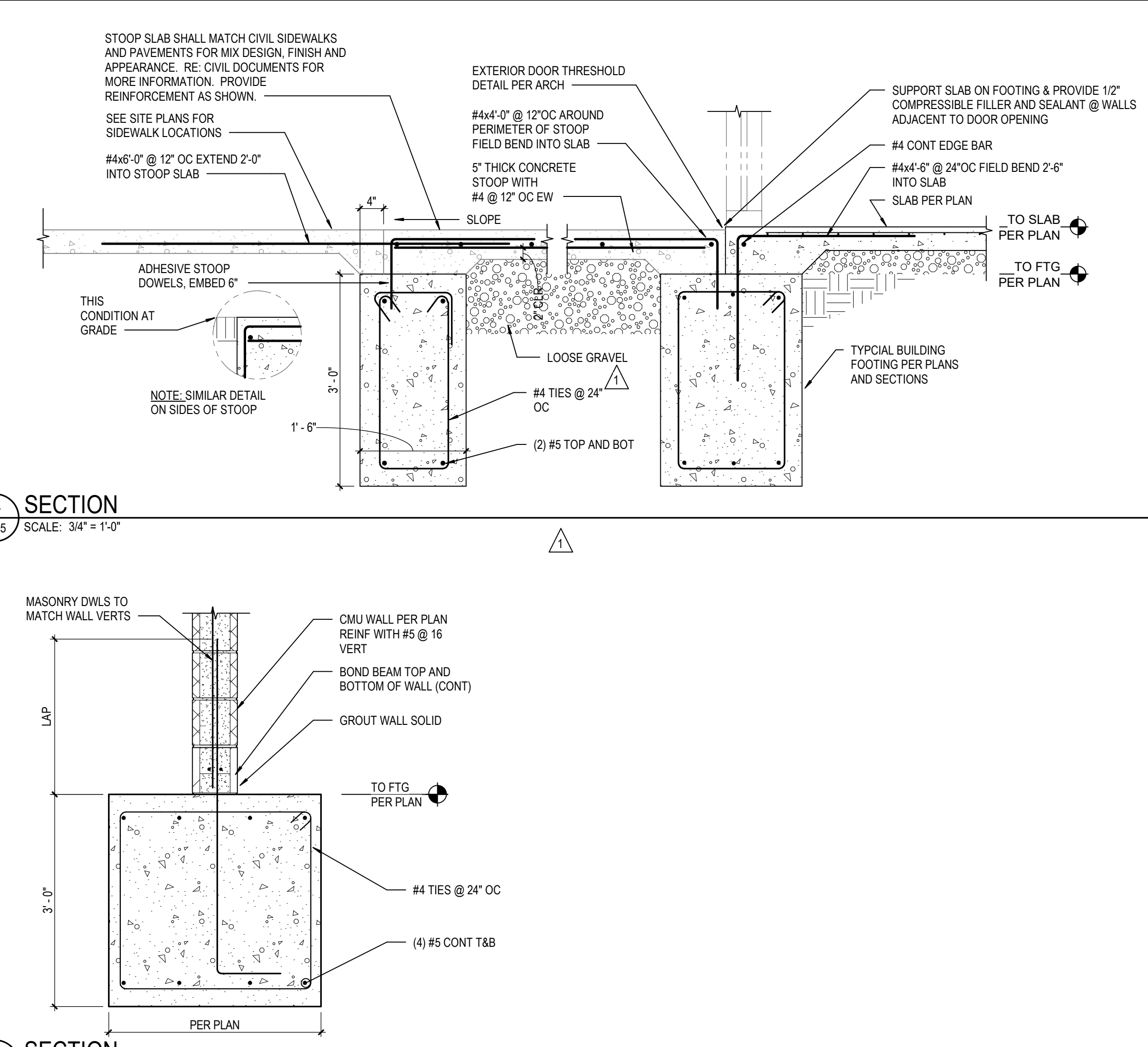
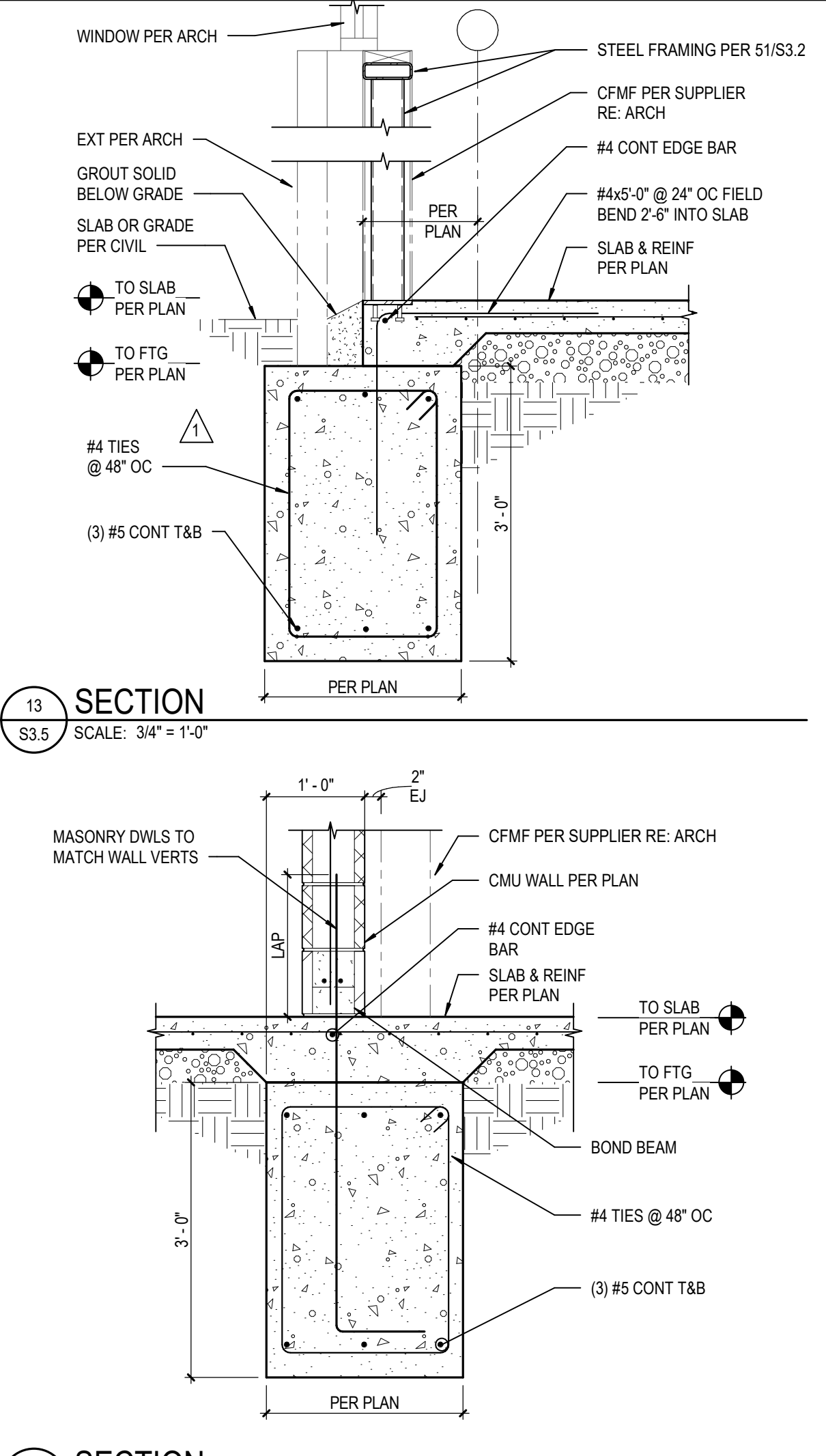
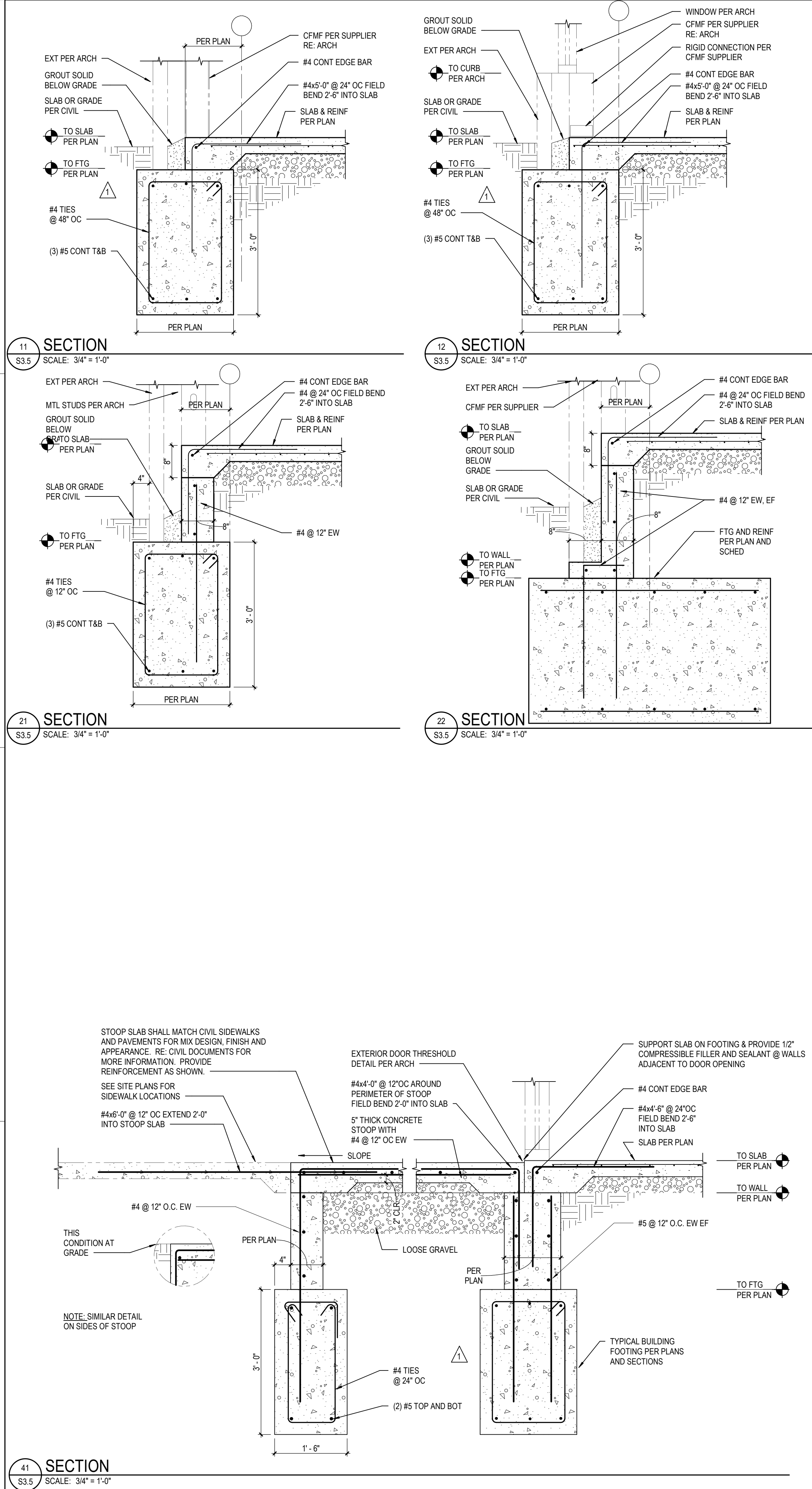


55 TYP ELEVATOR PIT DETAIL  
S3.2 SCALE: 1/2" = 1'-0"





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NOTES:

1. USE SIMILAR CONNECTION AT WIDE FLANGE COLUMN FLANGE OR WEB.
2. STEEL SUPPLIER TO DESIGN CONNECTIONS FOR LRFD REACTIONS PER PLAN W/ MIN NUMBER OF BOLTS FOR THIS SCHEDULE.
3. IF NO REACTIONS ARE PROVIDED, DESIGN CONNECTIONS TO RESIST 1/2 THE MAXIMUM TOTAL UNIFORM LRFD LOAD BASED ON SPAN LISTED IN TABLE 3-6 OF THE AISC STEEL CONNECTION MANUAL.

1/2" 3" 1 3/4" 1 1/4" 4 BOLTS IN 2 ROWS NO BOLTS @ 5' O.C.

STEEL BEAM  
DOUBLE ANGLE

1/2" 1 3/4" 1 1/4" 4 BOLTS IN 2 ROWS NO BOLTS @ 5' O.C.

STEEL BEAM  
DOUBLE ANGLE

NOTES:

1. USE SIMILAR CONNECTION AT WIDE FLANGE COLUMN FLANGE OR WEB.
2. STEEL SUPPLIER TO PROVIDE CONNECTIONS FOR LRFD REACTIONS PER PLAN W/ MIN NUMBER OF BOLTS PER THIS SCHEDULE.
3. IF NO REACTIONS ARE PROVIDED, DESIGN CONNECTIONS TO RESIST 1/2 THE MAXIMUM TOTAL UNIFORM LOAD BASED ON SPAN LISTED IN TABLE 3.6 OF THE AISC STEEL CONNECTION MANUAL.

CL

STEEL BEAM

STEEL COLUMN

CL

SEE SCHED

STEEL BEAM

PLATE SIZE - SEE SCHEDULE

STEEL COLUMN

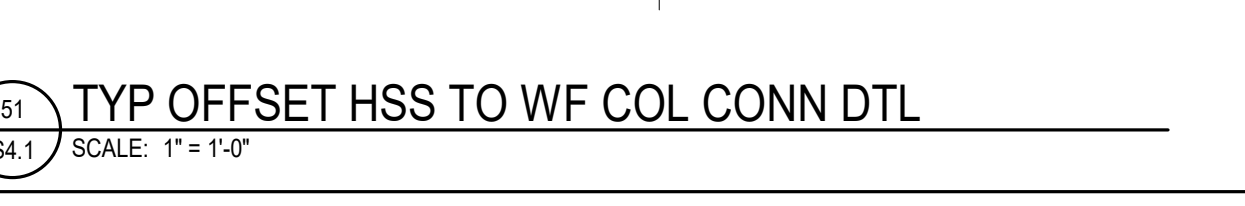
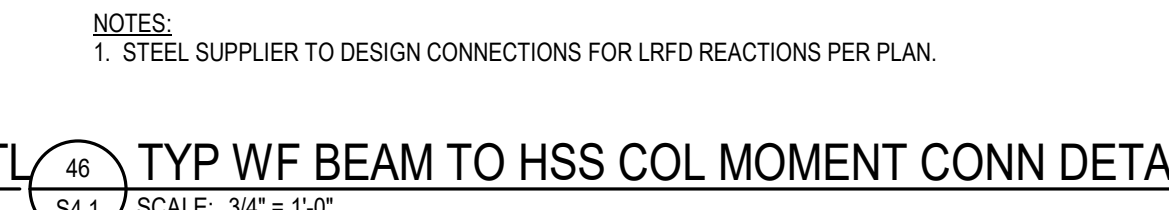
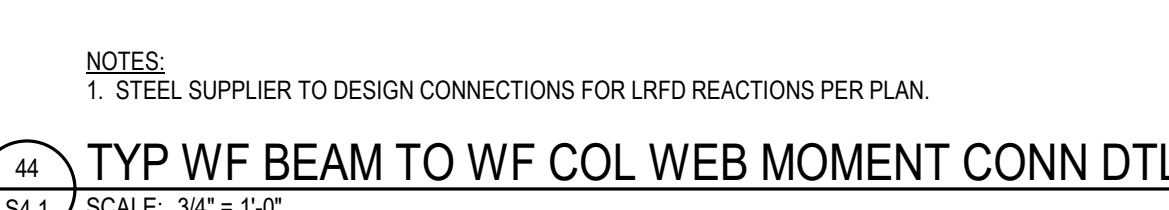
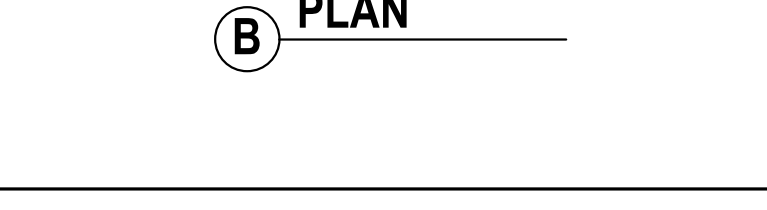
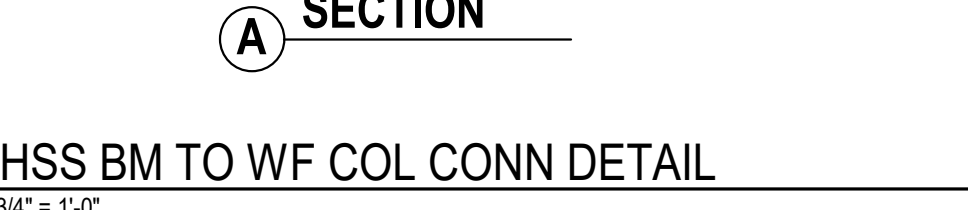
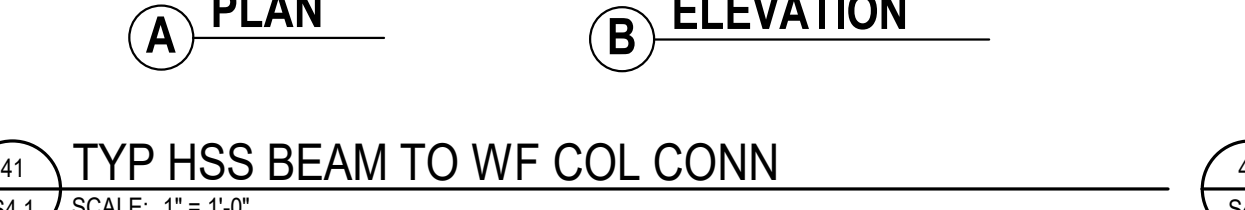
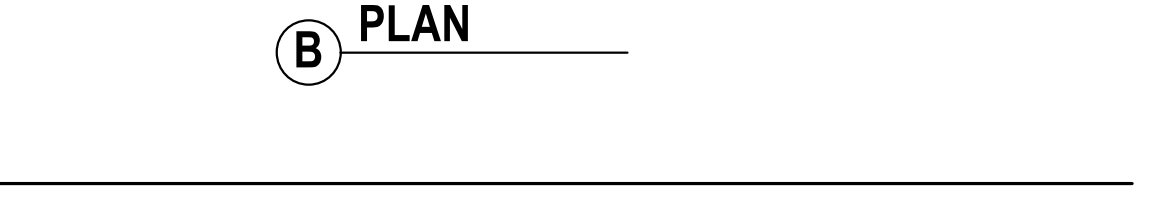
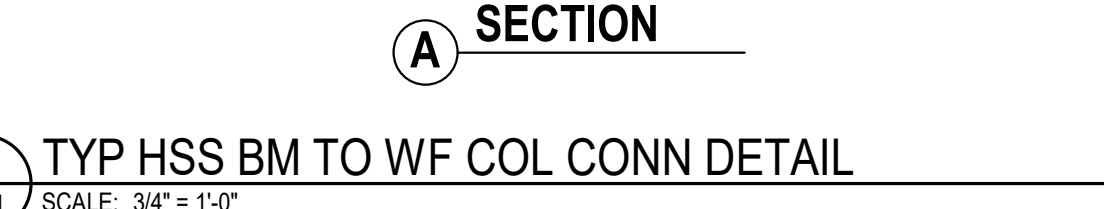
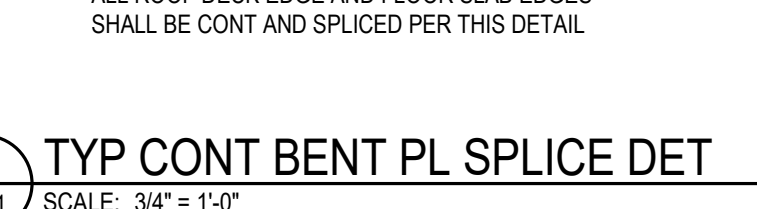
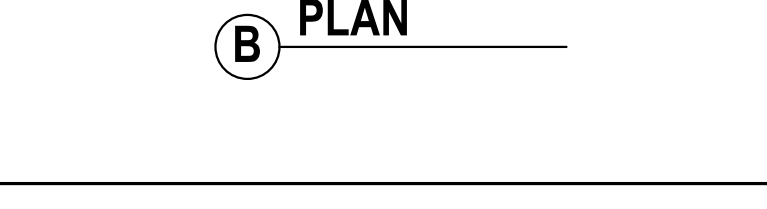
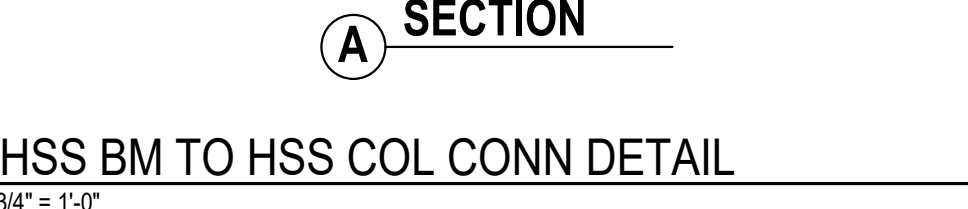
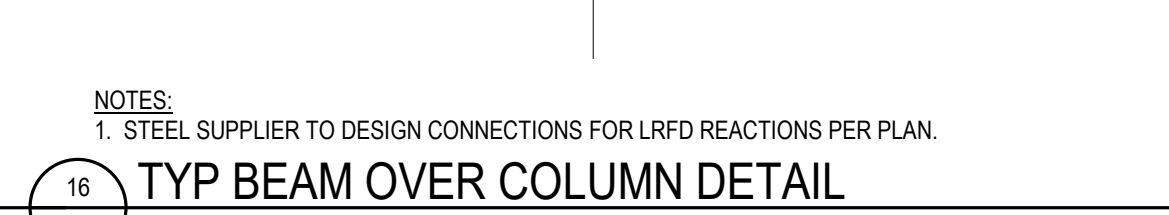
Diagram illustrating a steel beam-to-column connection. The connection is shown in plan view, detailing the dimensions and components for a 12" steel beam connected to a 12" column or face of masonry.

Key dimensions and components shown:

- Beam Dimensions:** 12" beam width, 1 1/2" flange thickness, 1 1/2" web thickness, 1 1/2" flange width, 1 1/2" web width, 1 1/2" flange width, 1 1/2" web width.
- Column Dimensions:** 12" column or face of masonry.
- Connection Details:** 12" UNO (Unreinforced Ordinary Concrete) core, 12" UNO (Unreinforced Ordinary Concrete) core, 12" UNO (Unreinforced Ordinary Concrete) core.
- Reinforcement:** 3/4" A325-N bolts, 13/16" standard holes, plate each side.
- Labels:** TO STEEL SEE PLANS, CL COLUMN OR FACE OF MASONRY, STEEL BEAM.

NOTES:

1. USE SIMILAR CONNECTION AT WIDE FLANGE COLUMN FLANGE OR WEB.
2. STEEL SUPPLIER TO DESIGN CONNECTIONS FOR LRFD REACTIONS PER PLAN W/ MIN NUMBER OF BOLTS PER THIS SCHEDULE.
3. IF NO REACTIONS ARE PROVIDED, DESIGN CONNECTIONS TO RESIST 1/2 THE MAXIMUM TOTAL UNIFORM LRFD LOAD BASED ON SPAN LISTED IN TABLE 3-6 OF THE AISC STEEL CONNECTION MANUAL.





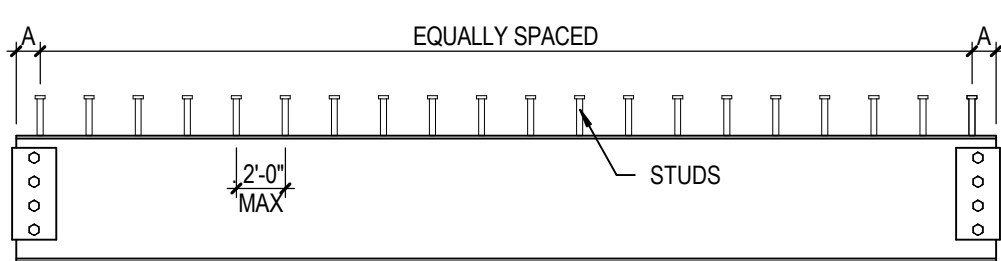
# A. BEAMS:

1. THE NUMBER SHOWN THIS (NO) FOLLOWING THE BEAM SIZE INDICATES THE NUMBER OF 3/4" HEADED STUDS TO BE PLACED ON THE BEAM. ALL BEAMS (AND GIRDERS) SHALL HAVE HEADED STUDS ATTACHED TO THE TOP FLANGE. IF NO SPECIFIC STUD QUANTITY IS NOTED ON PLANS, THE MAXIMUM STUD SPACING SHALL BE 2'-0". DECK VALLEYS WITHOUT STUDS SHALL BE WELDED.

2. STUD PLACEMENT SHALL BE AS FOLLOWS:

- NUMBER OF STUDS IS LESS THAN THE NUMBER OF DECK VALLEYS. UNIFORMLY SPACE STUDS SYMMETRICALLY WITH THE BEAM CENTERLINE.
- NUMBER OF STUDS IS GREATER THAN THE NUMBER OF DECK VALLEYS. PLACE ONE STUD IN EACH VALLEY STARTING AT THE ENDS OF THE BEAM. WHEN TWO STUDS ARE REQUIRED, PLACE STUDS 1 1/2' EACH SIDE OF THE BEAM WEB.

NOTE: SPACE 'A' TO COORDINATE WITH DECK LAYOUT.



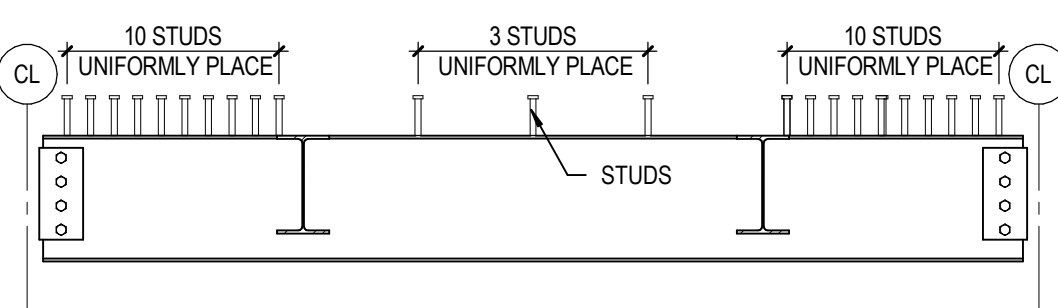
## EXAMPLE LAYOUT

11 TYP STUD PLACEMENT DETAIL  
S4.2 SCALE: 1/2" = 1'-0"

# B. GIRDERS:

1. THE SERIES OF NUMBERS SHOWN THIS (NO, NO, NO) FOLLOWING THE GIRDER SIZE WHEN ADDED TOGETHER, REPRESENT THE TOTAL NUMBER OF STUDS TO BE PLACED ON THE GIRDER. FOR EXAMPLE, [10-3-10] REPRESENTS THE TOTAL OF 23 STUDS TO BE PLACED ON THE GIRDER. THE FIRST AND LAST NUMBERS REPRESENTS THE NUMBER OF STUDS TO BE PLACED BETWEEN THE END OF THE GIRDER AND THE FIRST (OR LAST) INTERSECTING BEAM. THE MIDDLE NUMBER REPRESENTS THE NUMBER OF STUDS TO BE LOCATED BETWEEN THE TWO INTERSECTING BEAMS.

2. PLACE STUDS UNIFORMLY ALONG THE BEAMS OR PORTION OF BEAM INDICATED. CENTER THE STUDS OVER THE WEB AND PROVIDE A MAXIMUM SPACING OF 2'-0" AND A MINIMUM SPACING OF 4'-12". IF THE REQUIRED NUMBER OF STUDS EXCEEDS WHAT CAN BE PLACED AT 4'-12", PLACE A SECOND ROW OF STUDS SPACED AT 4'-12" CENTERS STARTING AT THE END OF THE BEAM UNTIL THE REQUIRED NUMBER OF STUDS IS REACHED. WHEN TWO ROWS OF STUDS ARE REQUIRED, PLACE STUDS 1 1/2' EACH SIDE OF THE BEAM CENTER LINE.



## EXAMPLE LAYOUT

EXAMPLE [10-3-10]

## A AT COMP BEAM

13 TYP COMPOSITE BM & GIRDER DETAIL  
S4.2 SCALE: 1" = 1'-0"

## B AT COMP GIRDER

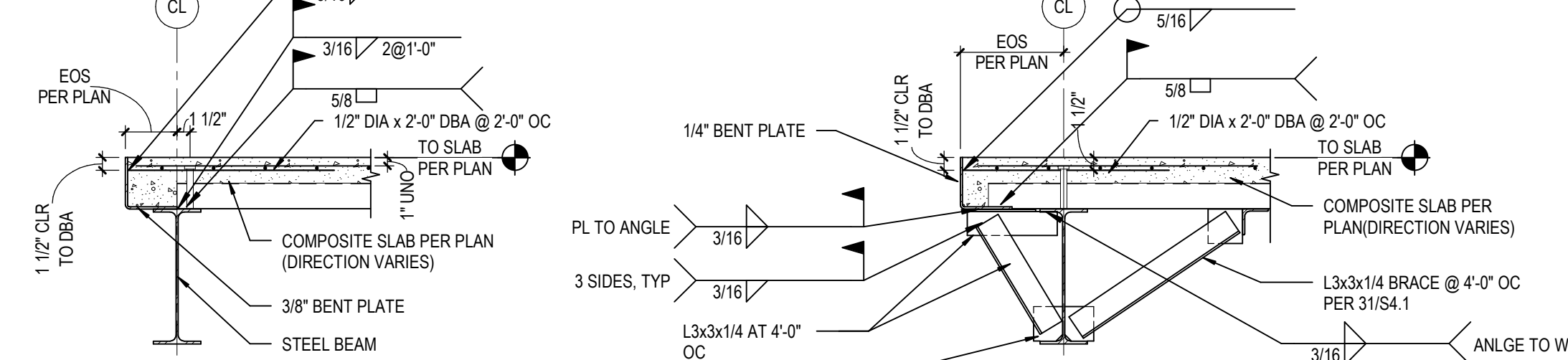
NOTE: PROVIDE DECK GIRDER FILLER PLATE IF REQUIRED.

## A EOS <1'-6"

14 TYP SLAB EDGE DETAIL  
S4.2 SCALE: 3/4" = 1'-0"

## B EOS >1'-6"

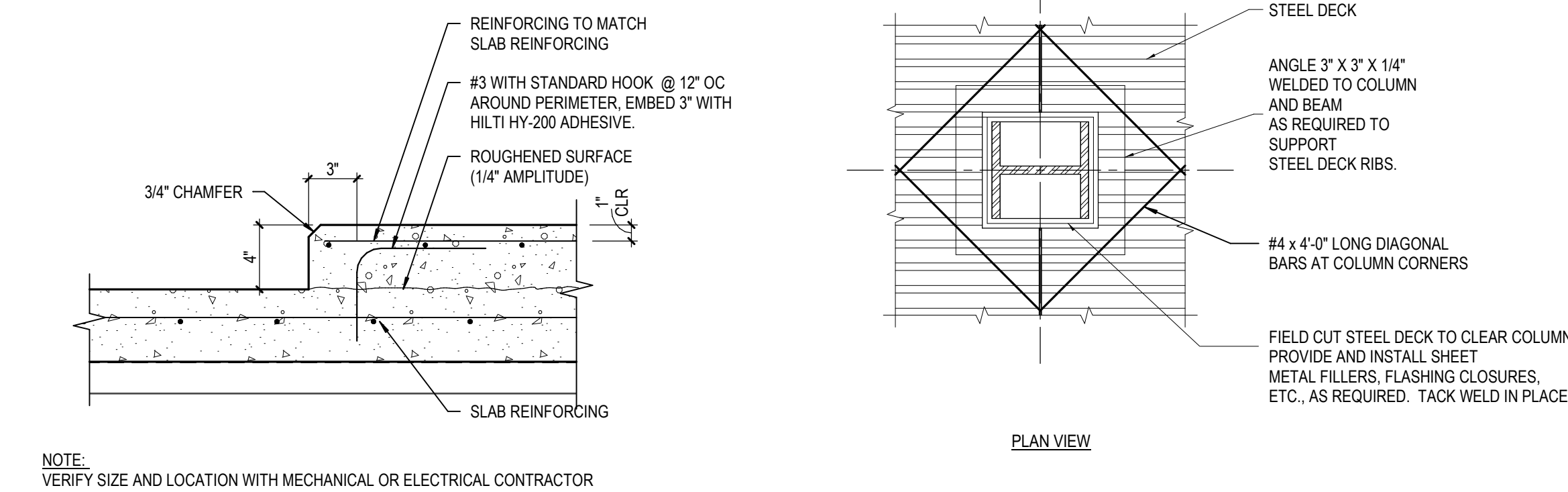
NOTE: ALL SLAB EDGES SHALL HAVE A CONTINUOUS BENT PLATE SPICED PER 34/S4.1



## A EOS <1'-6"

14 TYP SLAB EDGE DETAIL  
S4.2 SCALE: 3/4" = 1'-0"

## B EOS >1'-6"



NOTE: VERIFY SIZE AND LOCATION WITH MECHANICAL OR ELECTRICAL CONTRACTOR

## 24 TYP CONC PAD DETAIL

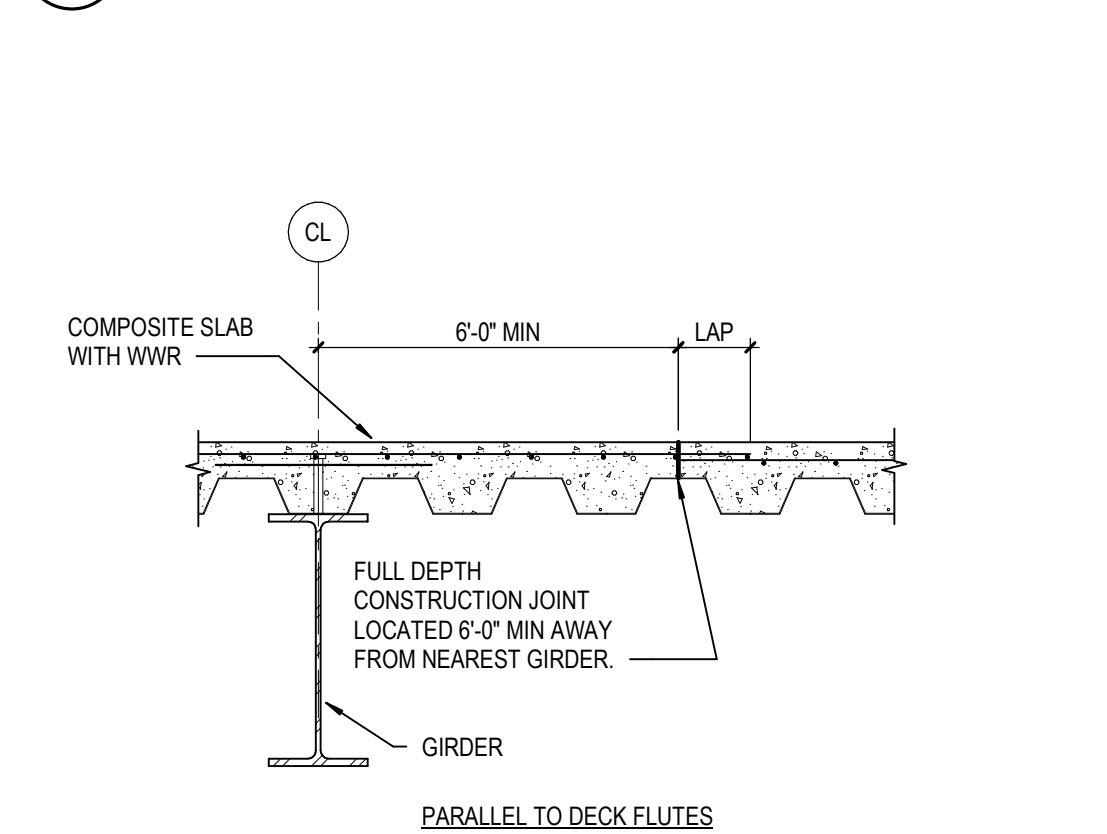
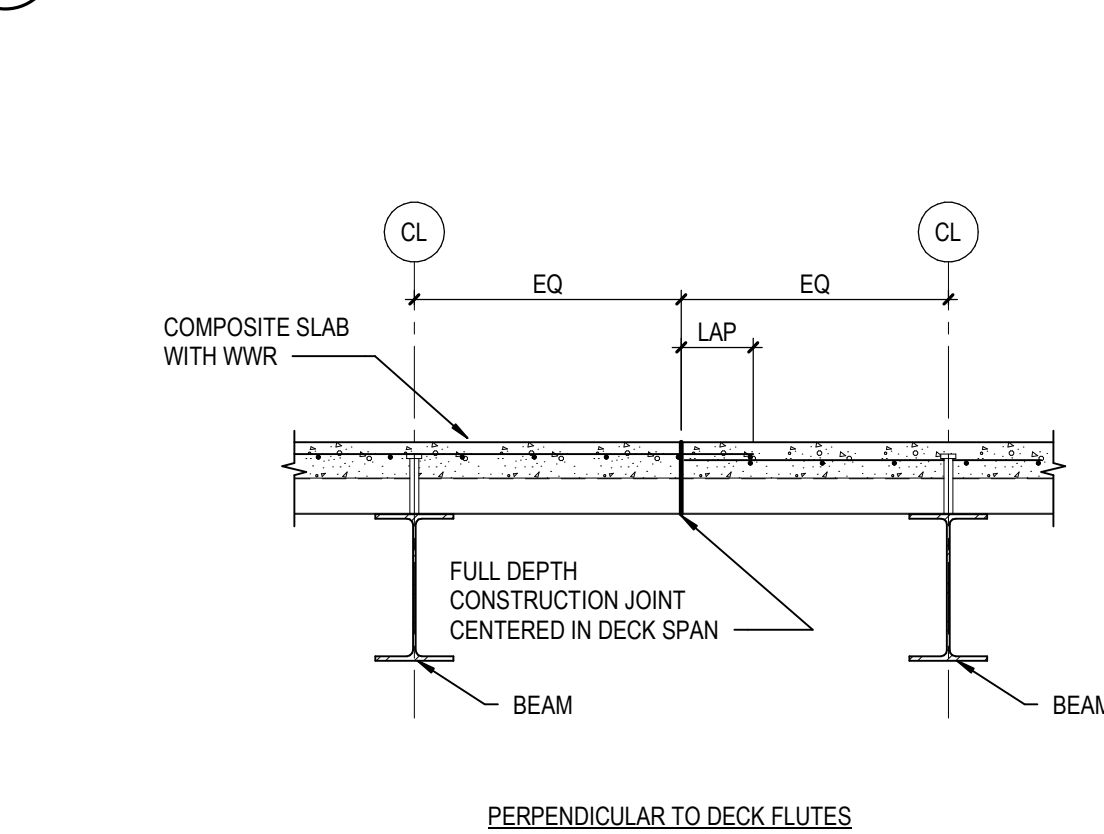
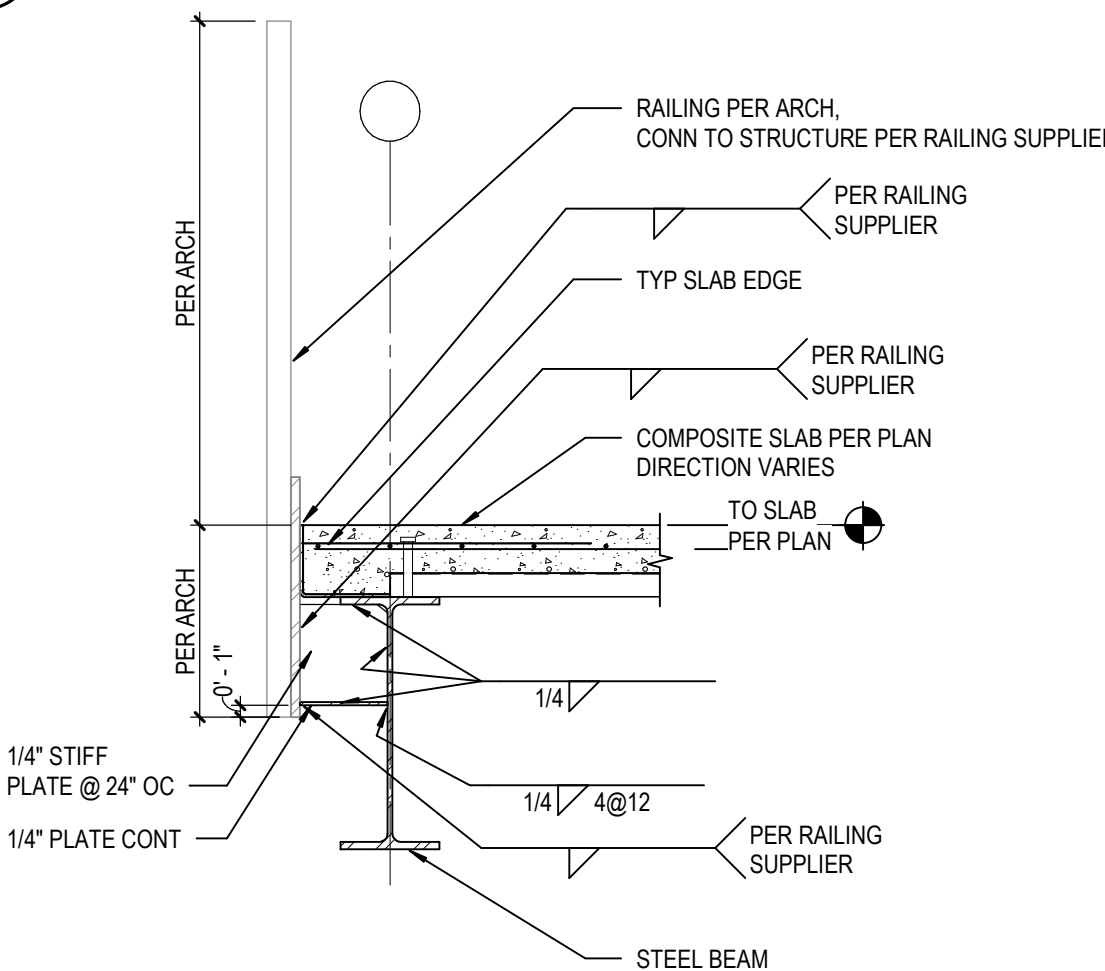
S4.2 SCALE: 1 1/2" = 1'-0"

## 25 TYP STEEL DECK FRAMING

S4.2 SCALE: 3/4" = 1'-0"

## 26 TYP SLAB REENTRANT CORNER DETAIL

S4.2 SCALE: 3/4" = 1'-0"

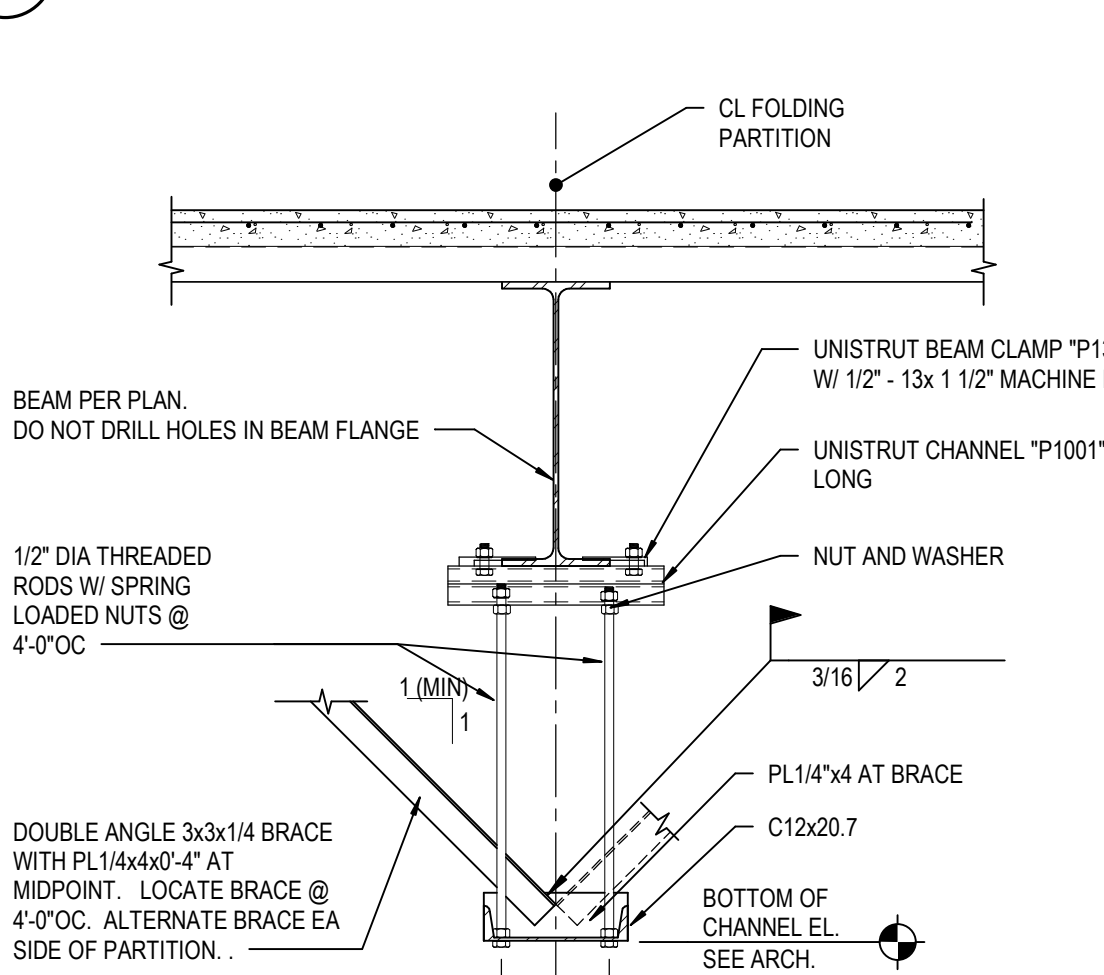
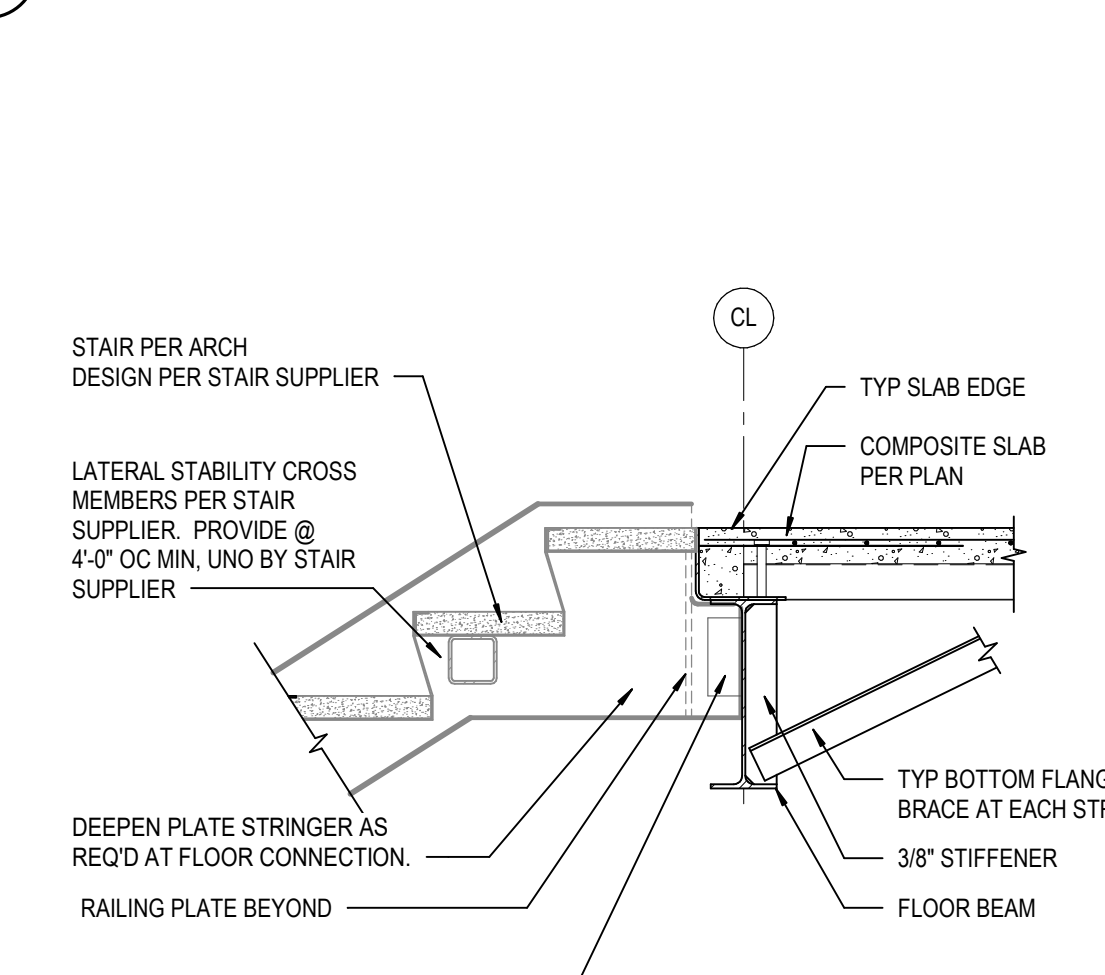


## 34 TYP RAILING DETAIL

S4.2 SCALE: 3/4" = 1'-0"

## 35 TYP CONSTRUCTION JOINT IN COMPOSITE SLAB

S4.2 SCALE: 3/4" = 1'-0"

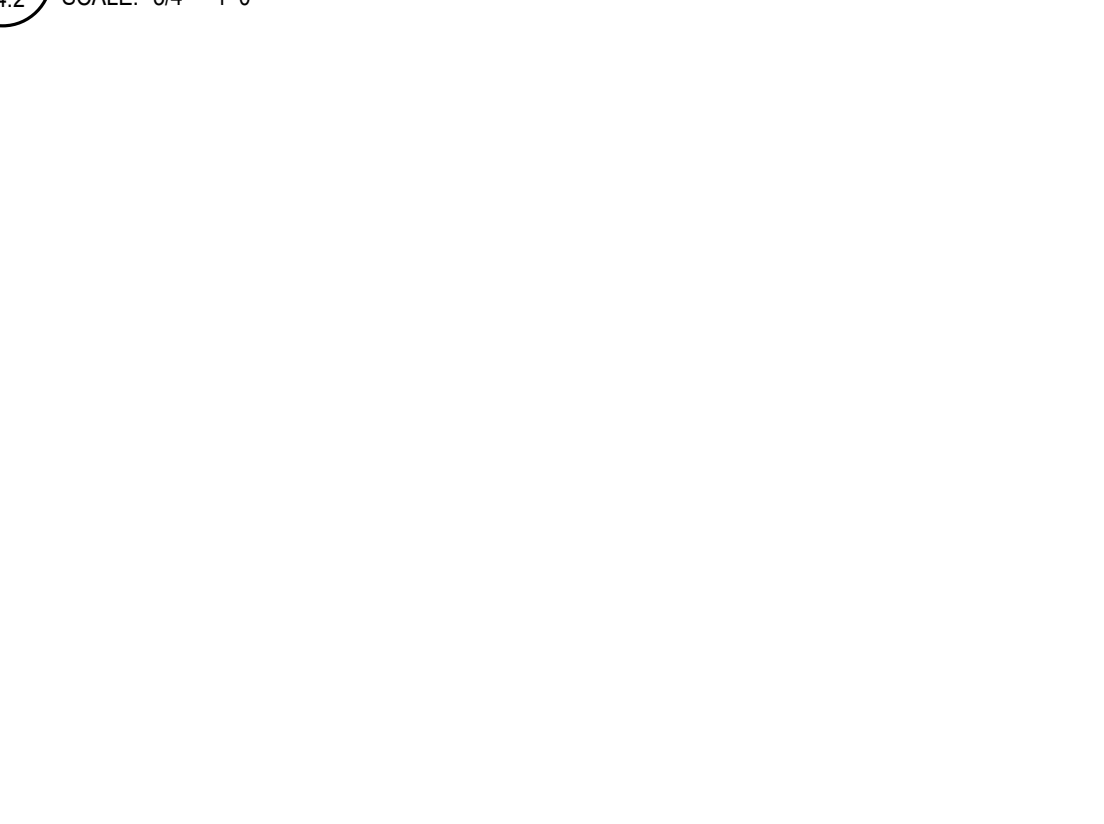
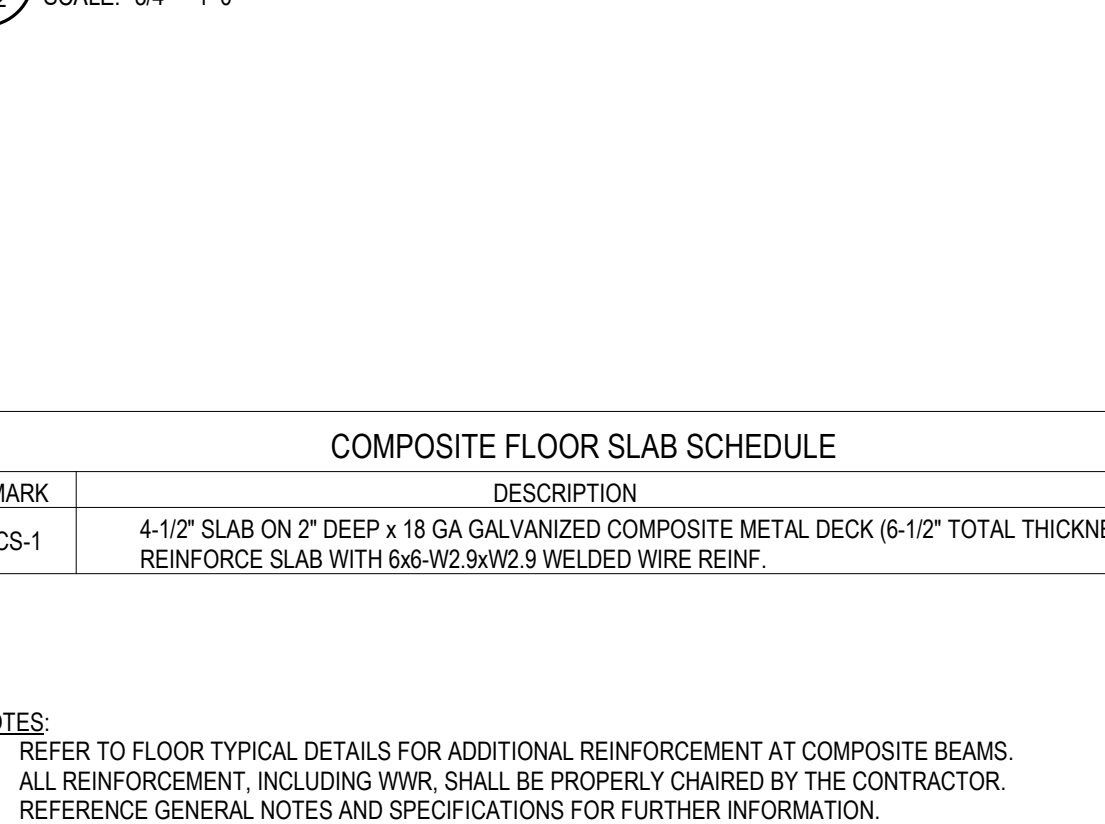


## 44 TYP STAIR CONN TO FLOOR SLAB DETAIL

S4.2 SCALE: 3/4" = 1'-0"

## 45 TYP OPERABLE PARTITION SUPPORT DETAIL

S4.2 SCALE: 3/4" = 1'-0"



NOTES:  
1. REFER TO FLOOR TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT AT COMPOSITE BEAMS.  
2. ALL REINFORCEMENT, INCLUDING WWR, SHALL BE PROPERLY CHAIBED BY THE CONTRACTOR.  
3. REFERENCE GENERAL NOTES AND SPECIFICATIONS FOR FURTHER INFORMATION.

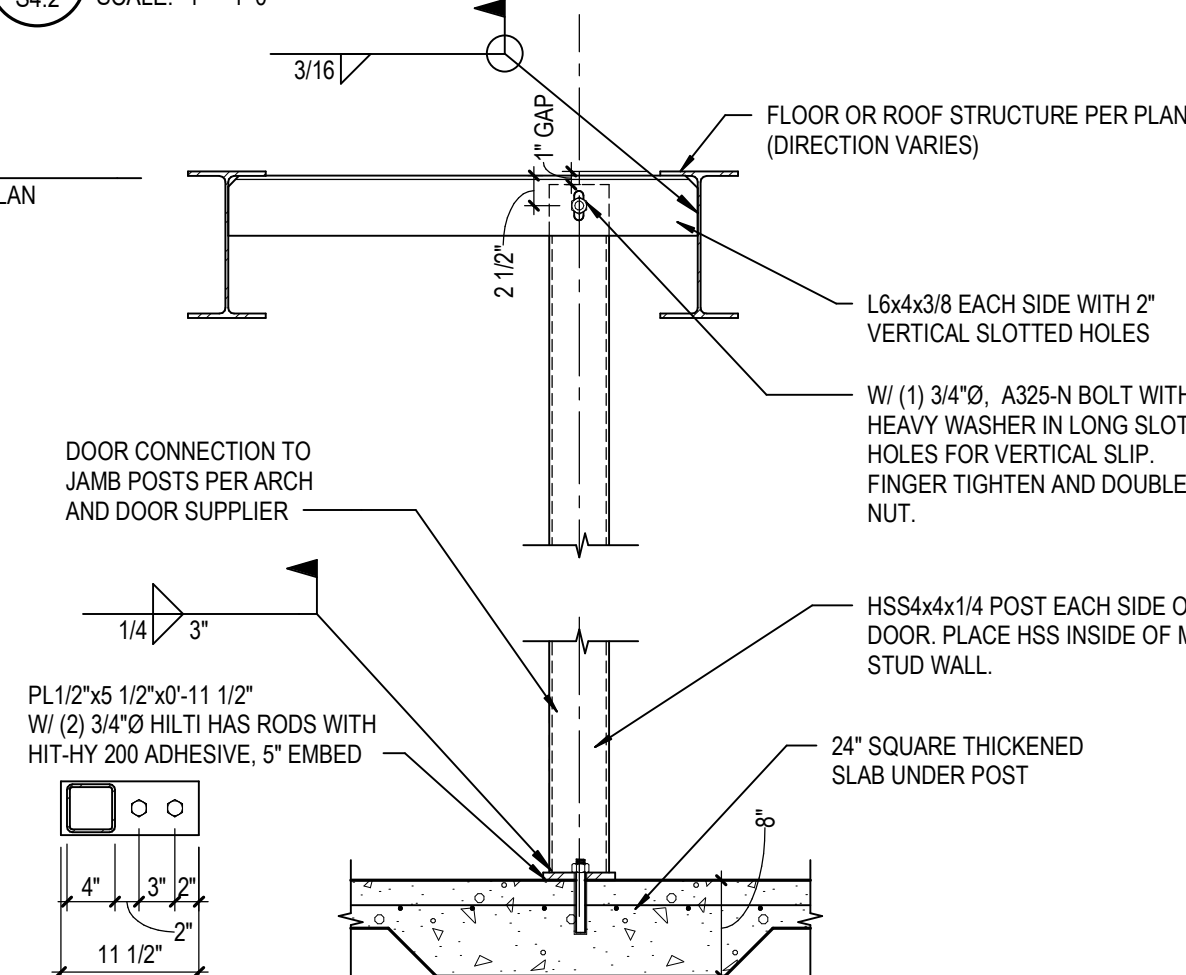
## 54 COMPOSITE FLOOR SLAB SCHEDULE

S4.2 SCALE: 3/4" = 1'-0"

MARK	DESCRIPTION
CS-1	4-1/2" SLAB ON 2" DEEP x 18 GA GALVANIZED COMPOSITE METAL DECK (6-1/2" TOTAL THICKNESS). REINFORCE SLAB WITH 6#6-W2 3#W2 9 WELDED WIRE REINF.

## 43 TYP WF BASE CLOSURE PLATE DETAIL

S4.2 SCALE: 1" = 1'-0"



## 53 TYP OVERHEAD DOOR SUPPORT DETAIL

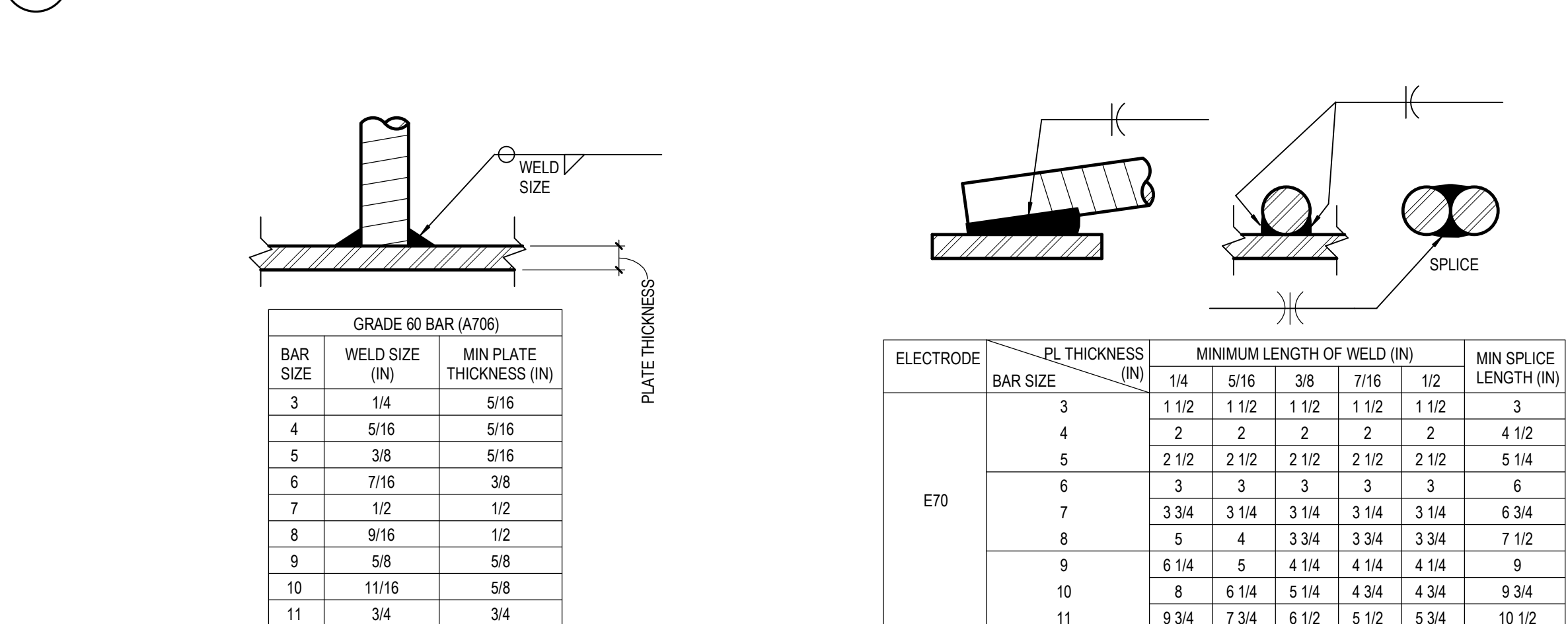
S4.2 SCALE: 3/4" = 1'-0"

## 54 COMPOSITE FLOOR SLAB SCHEDULE

S4.2 SCALE: 3/4" = 1'-0"

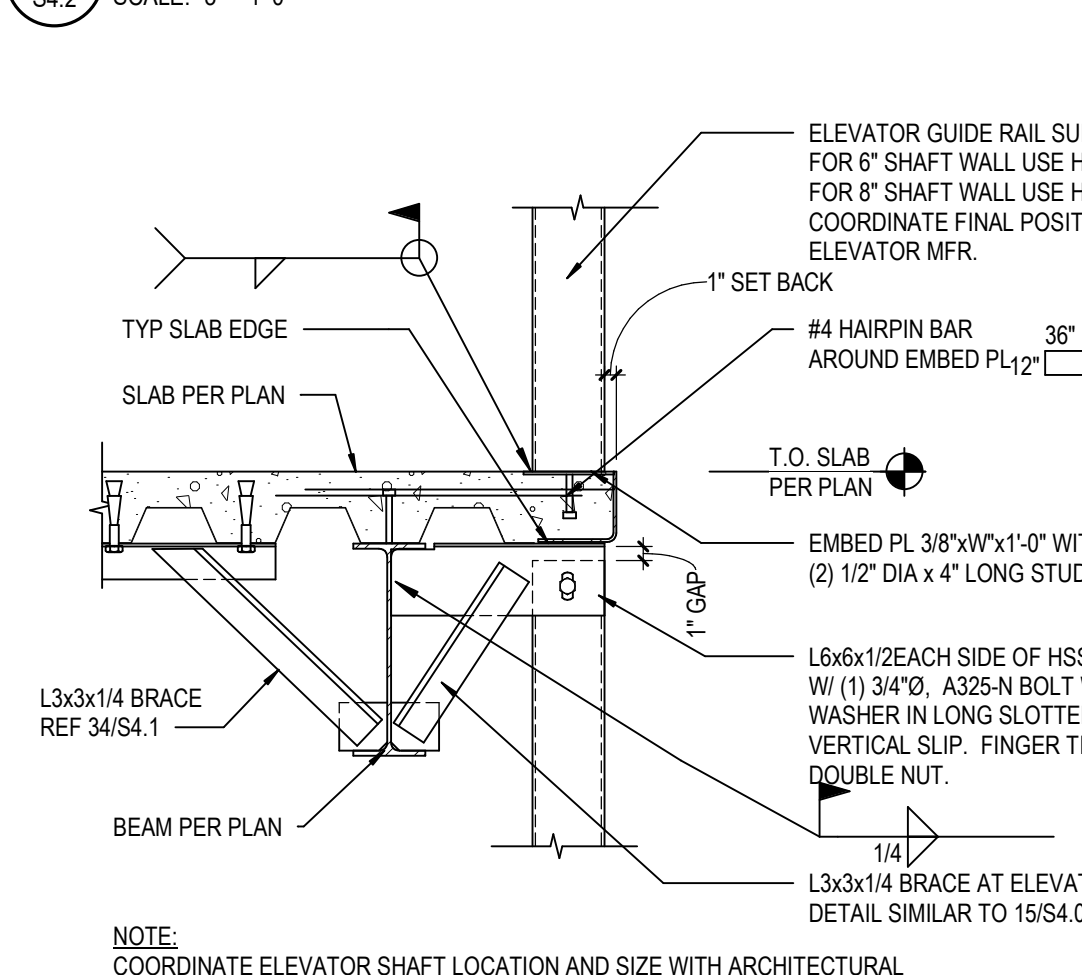
## 31 TYP REINFORCING AT FLOOR PENETRATIONS

S4.2 SCALE: 3/4" = 1'-0"



## 41 BAR TO PLATE WELD SCHEDULE

S4.2 SCALE: 3" = 1'-0"

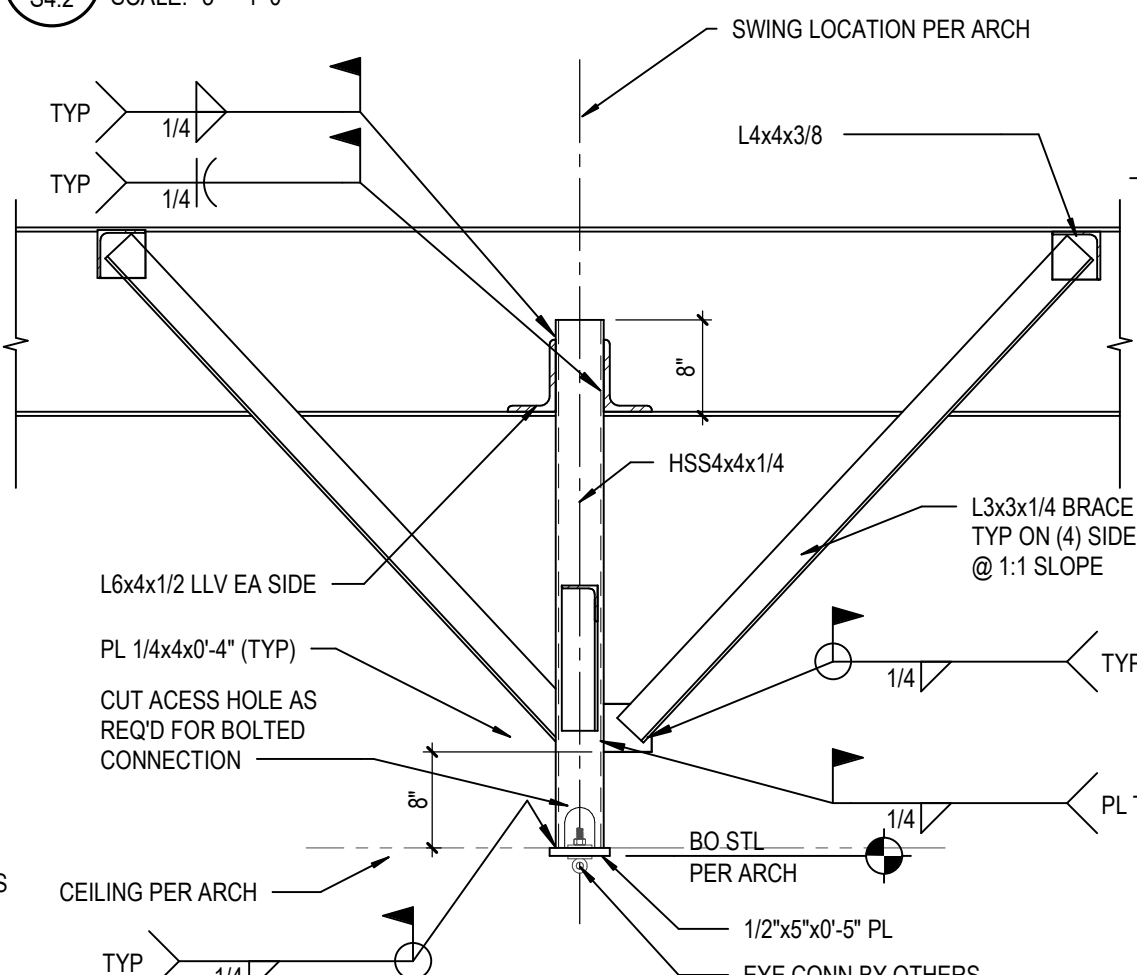


## 51 TYP ELEVATOR SHAFT DETAIL

S4.2 SCALE: 3/4" = 1'-0"

## 42 WELD PARALLEL TO BAR SCHED

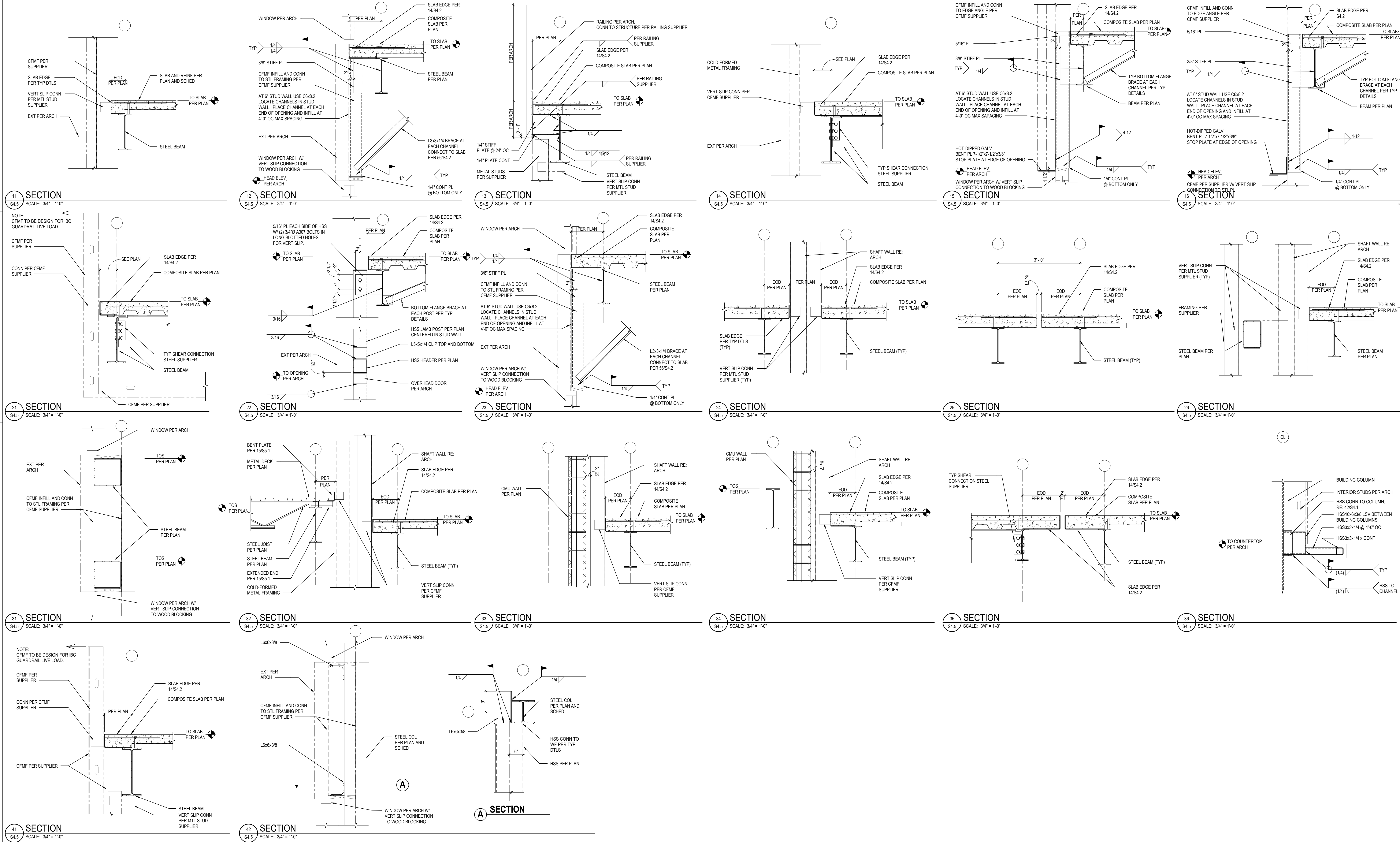
S4.2 SCALE: 3" = 1'-0"



## 52 TYP SWING SUPPORT DETAIL

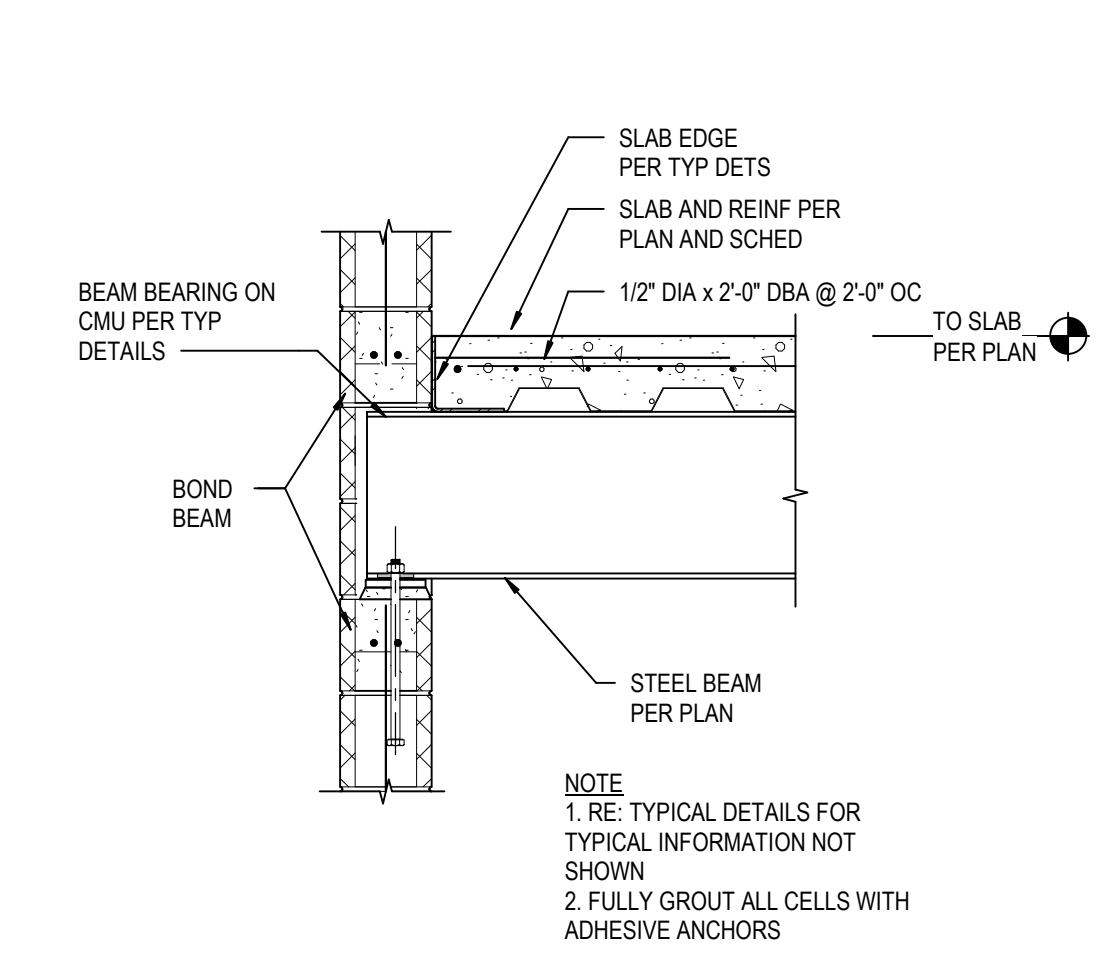
S4.2 SCALE: 3/4" = 1'-0"



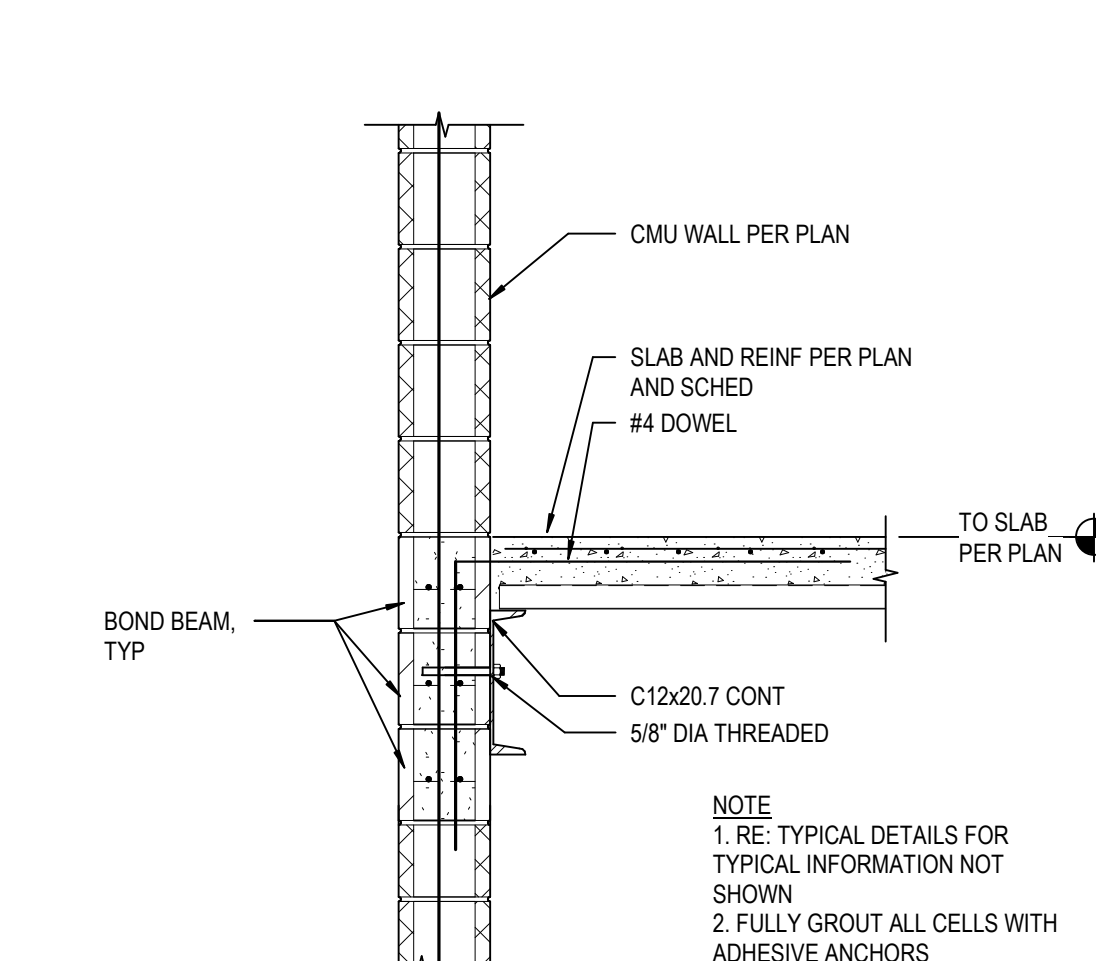




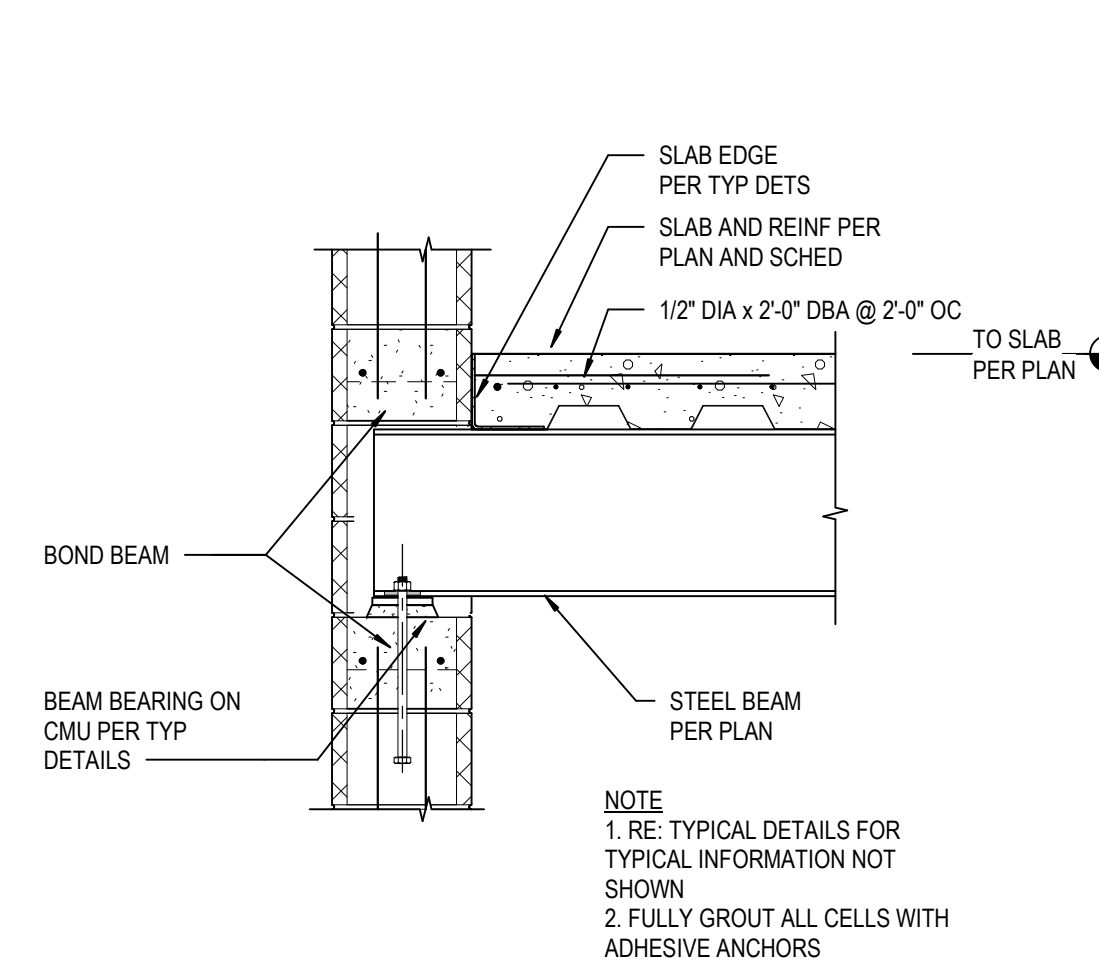
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10/7/2020 4:38:28 PM



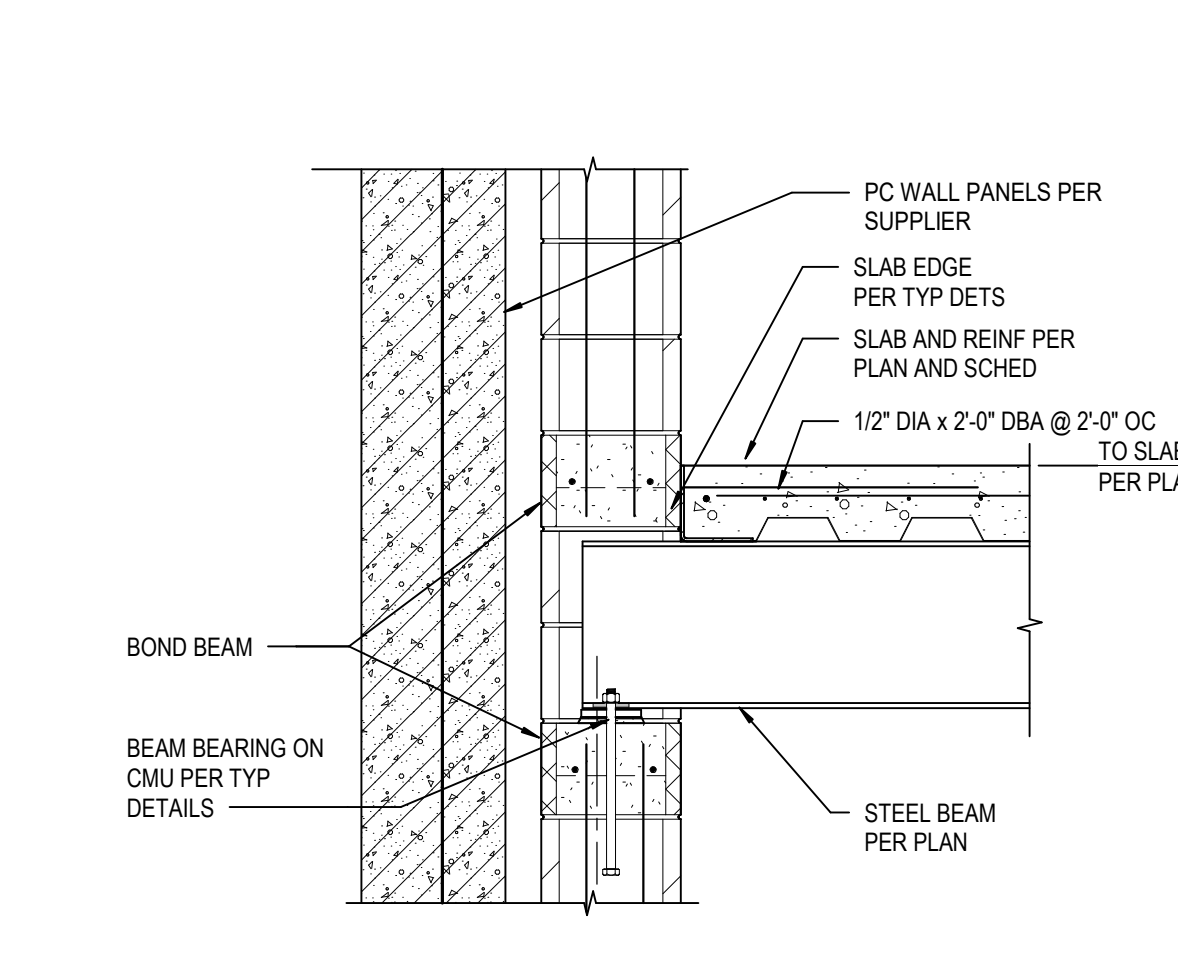
11 SECTION  
S4.7 SCALE: 3/4" = 1'-0"



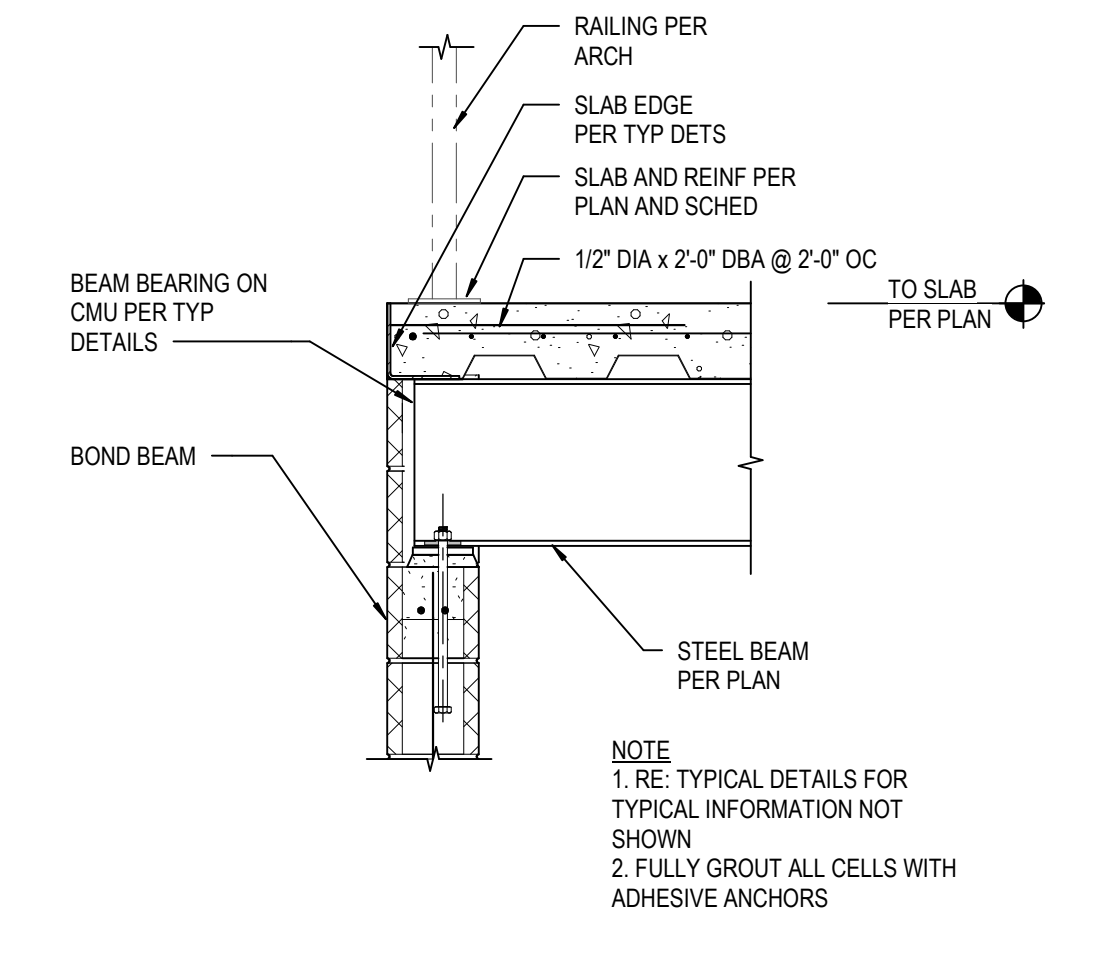
12 SECTION  
S4.7 SCALE: 3/4" = 1'-0"



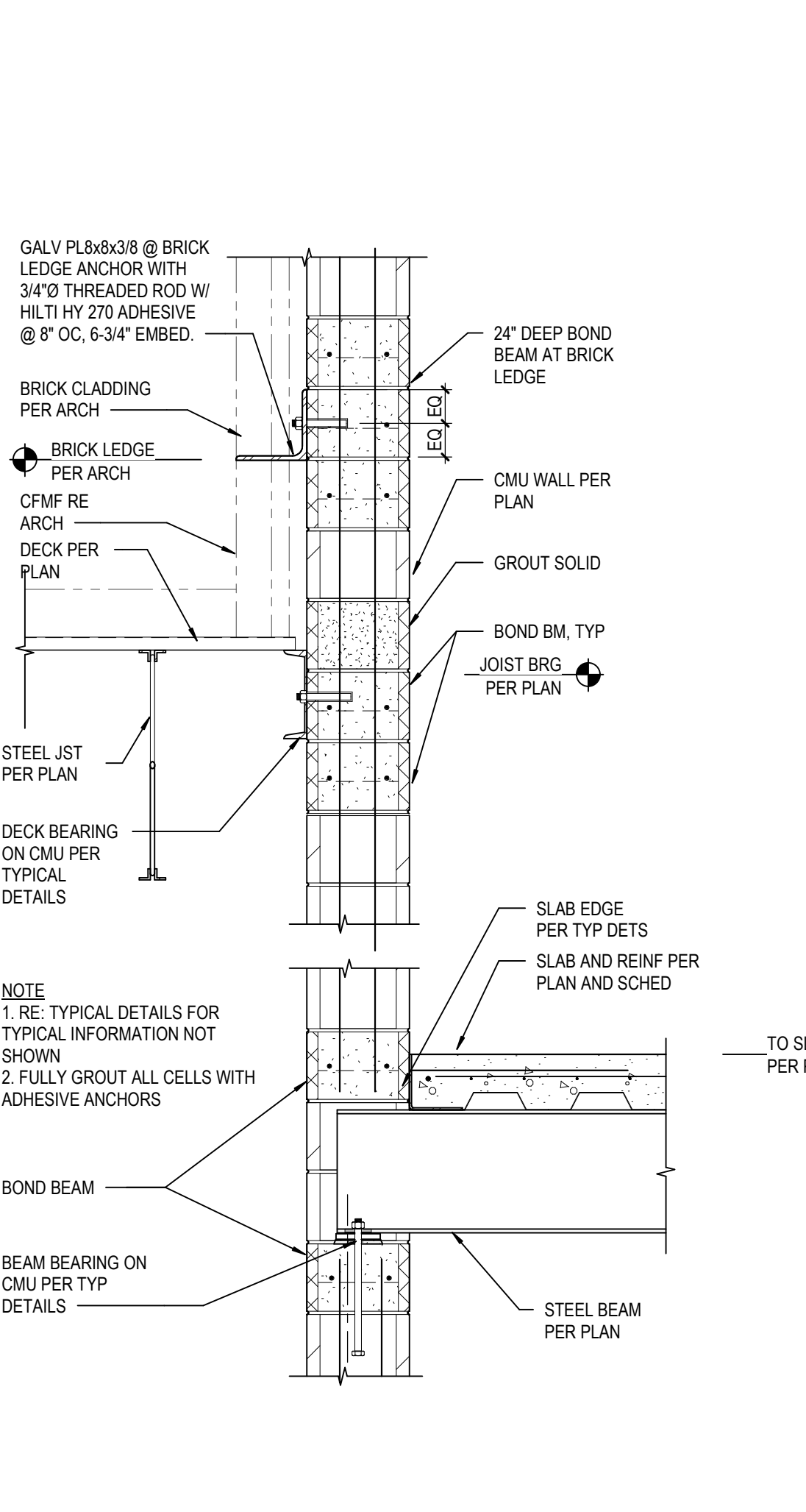
13 SECTION  
S4.7 SCALE: 3/4" = 1'-0"



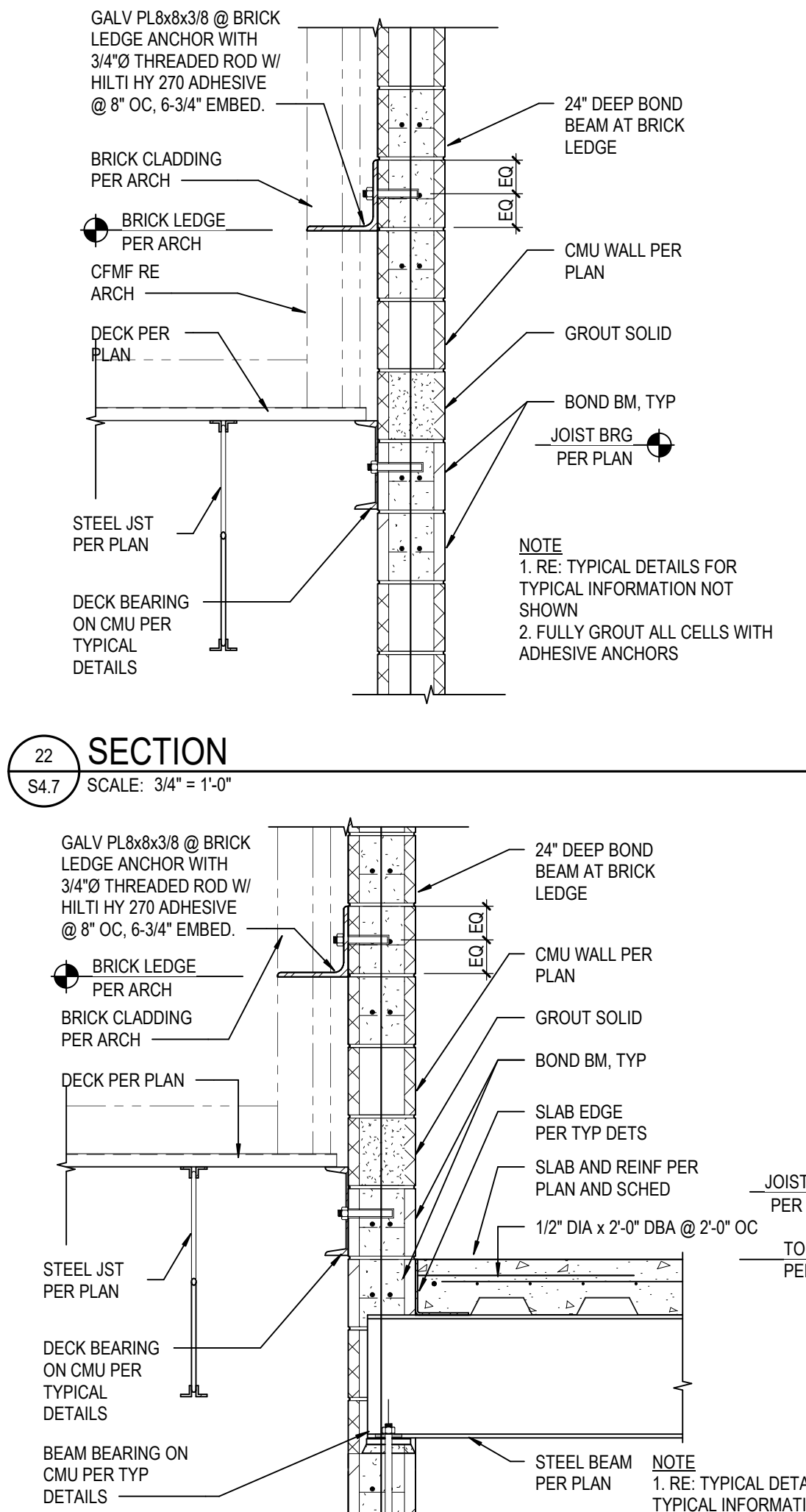
14 SECTION  
S4.7 SCALE: 3/4" = 1'-0"



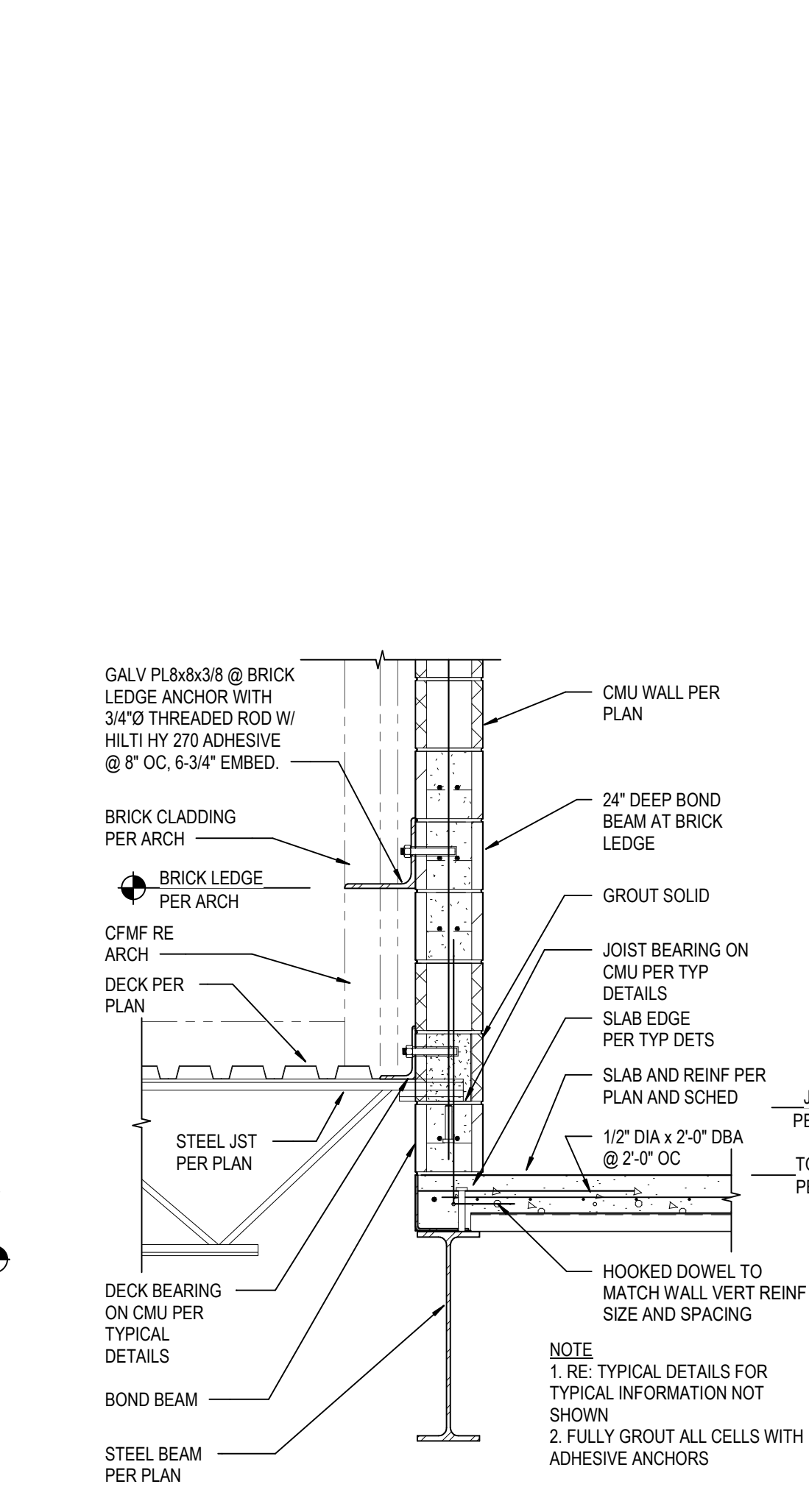
15 SECTION  
S4.7 SCALE: 3/4" = 1'-0"



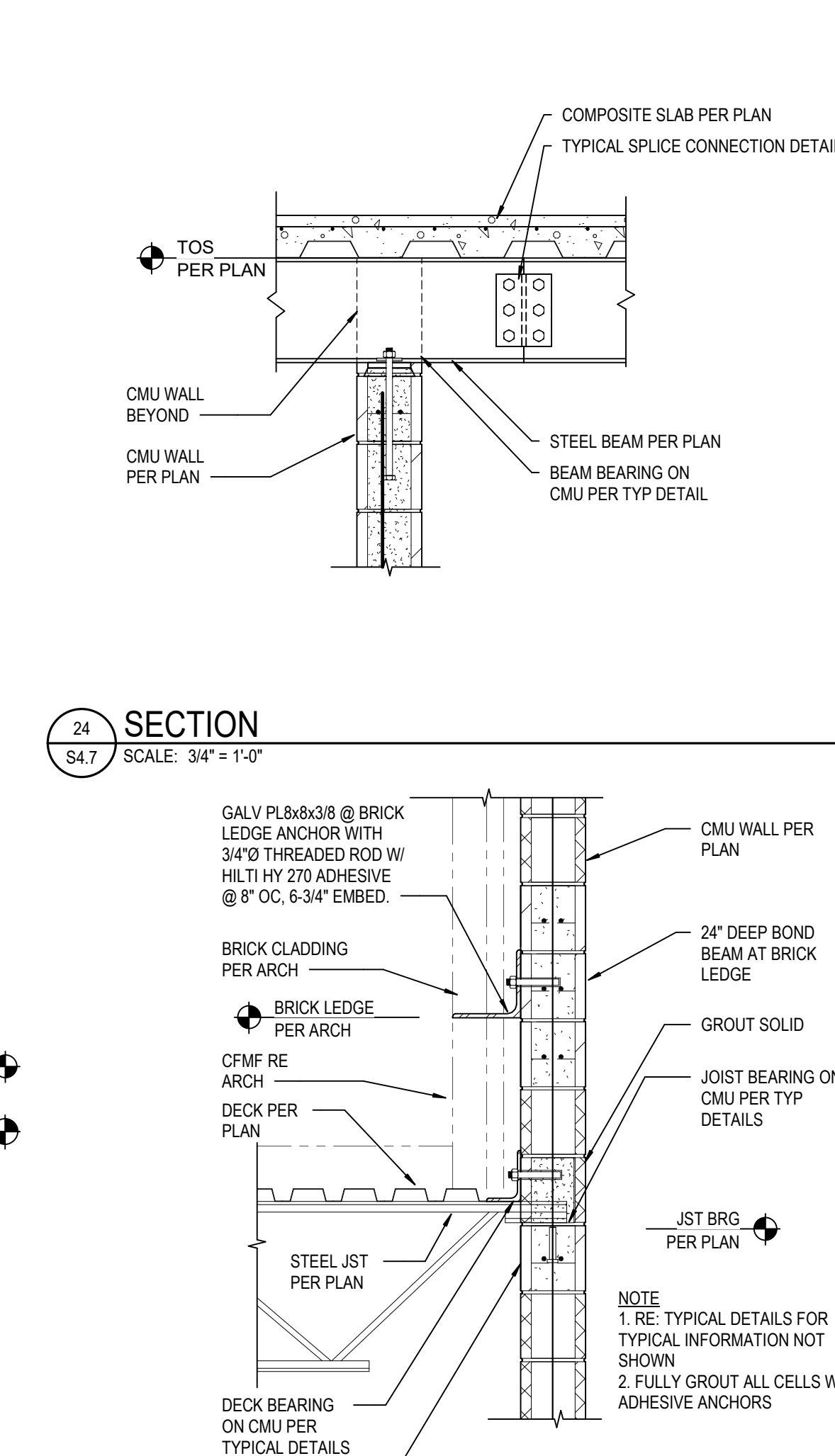
31 SECTION  
S4.7 SCALE: 3/4" = 1'-0"



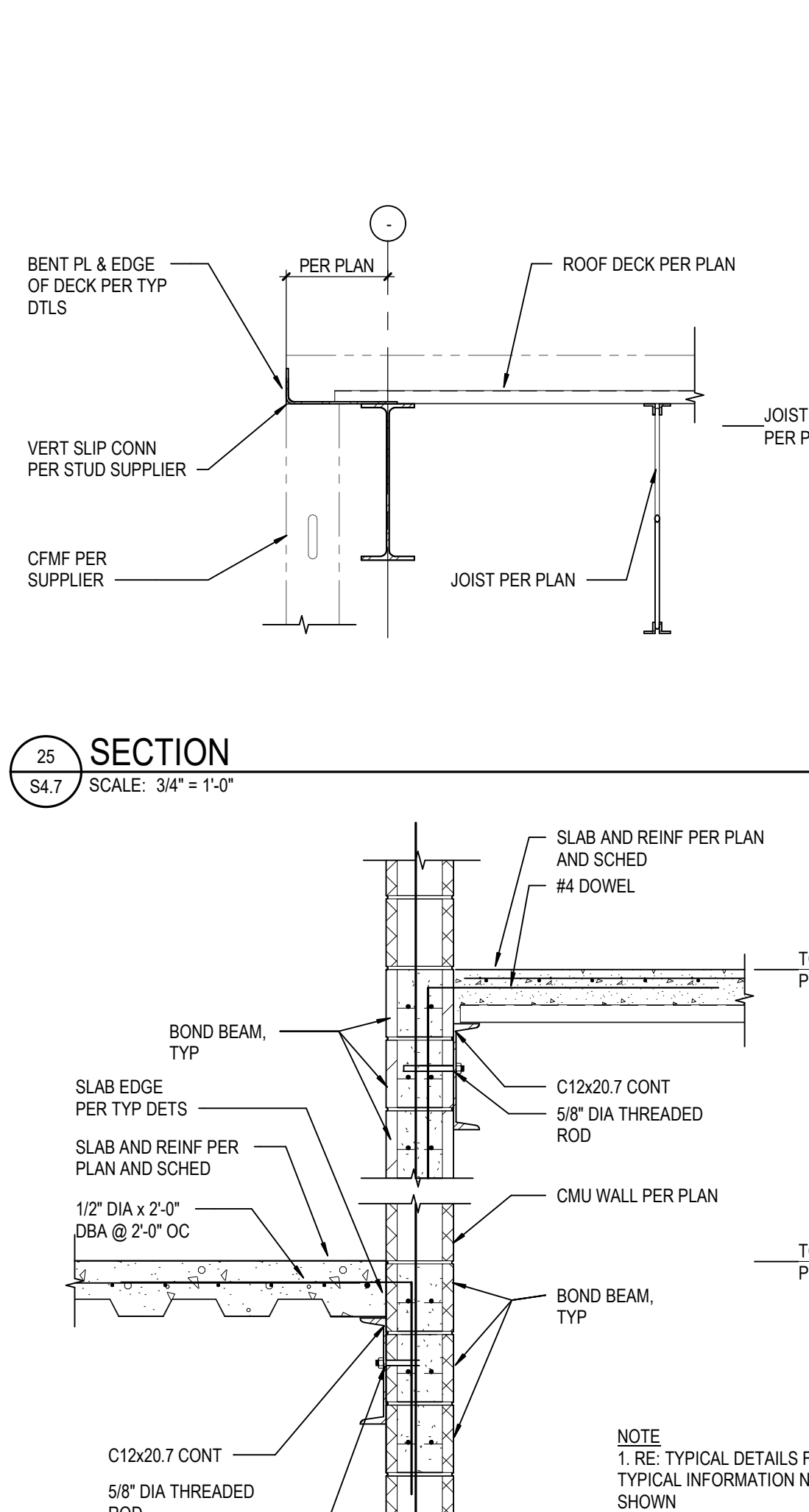
22 SECTION  
S4.7 SCALE: 3/4" = 1'-0"



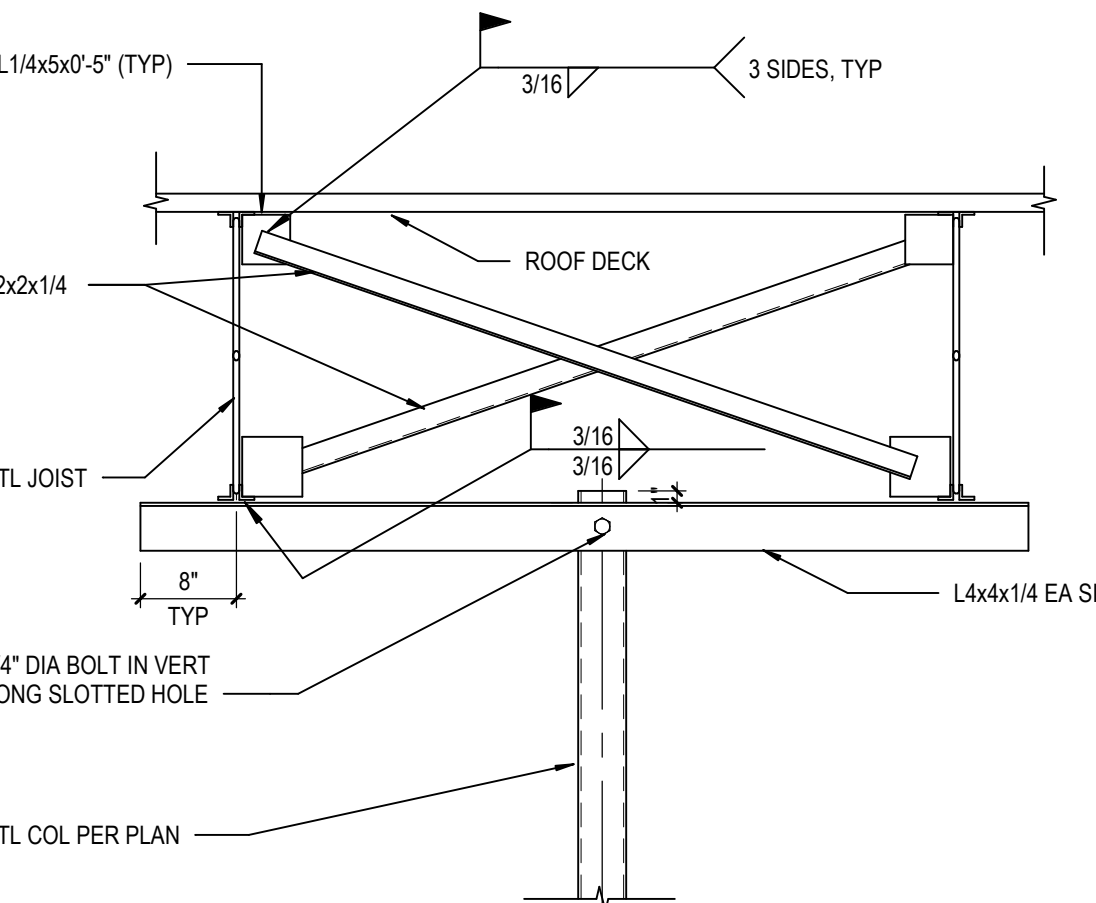
33 SECTION  
S4.7 SCALE: 3/4" = 1'-0"



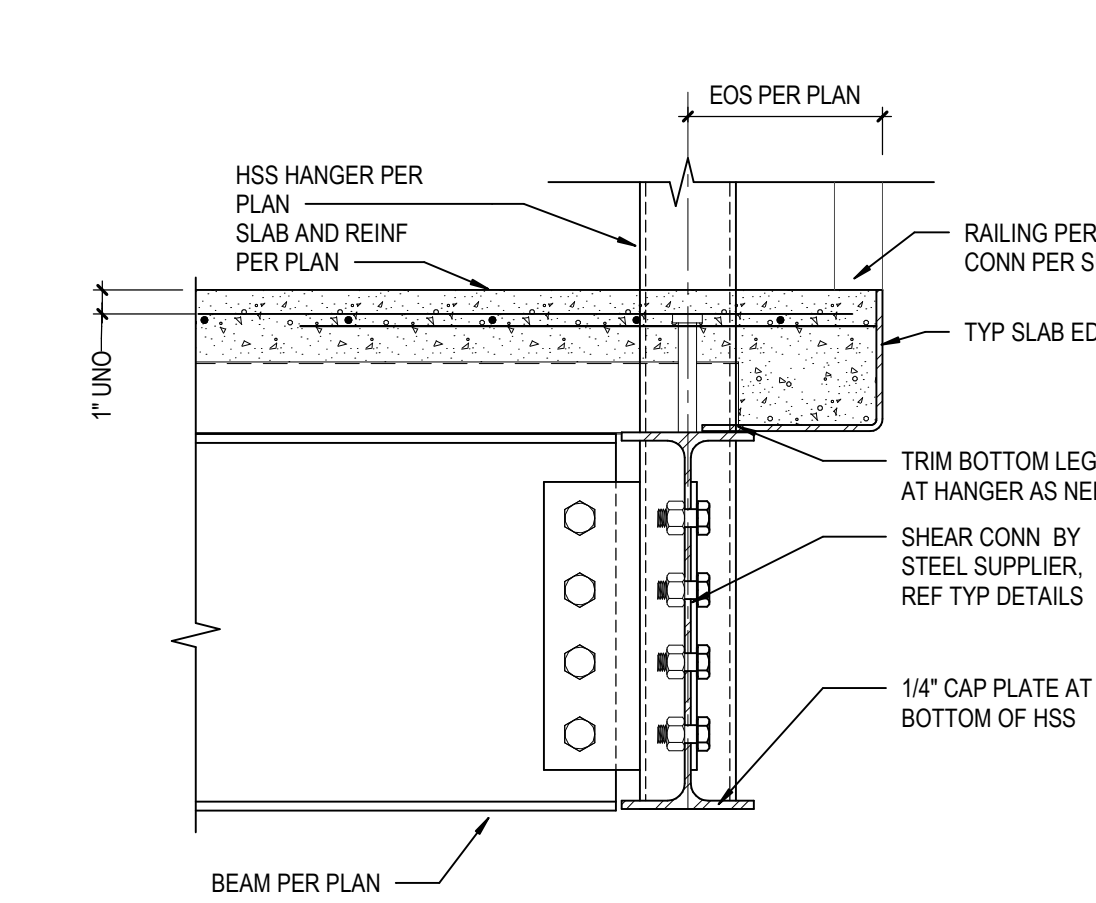
34 SECTION  
S4.7 SCALE: 3/4" = 1'-0"



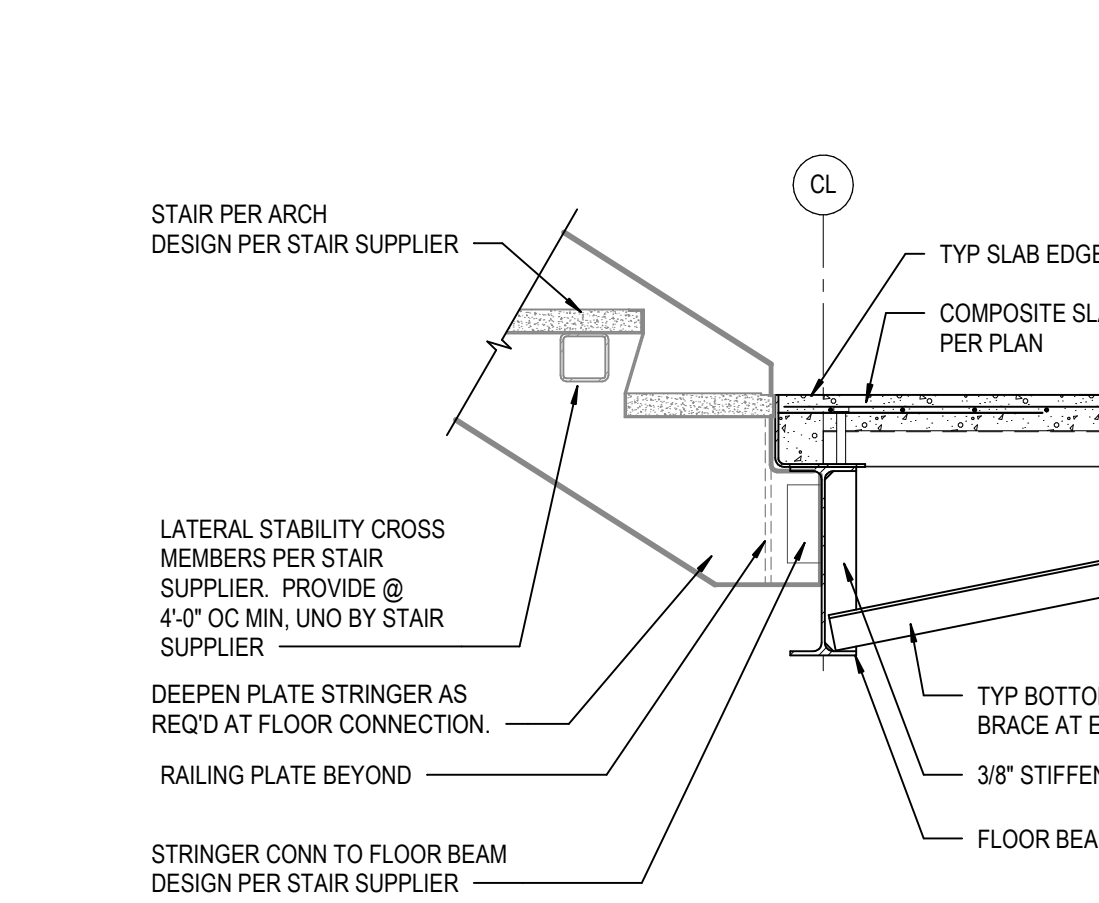
25 SECTION  
S4.7 SCALE: 3/4" = 1'-0"



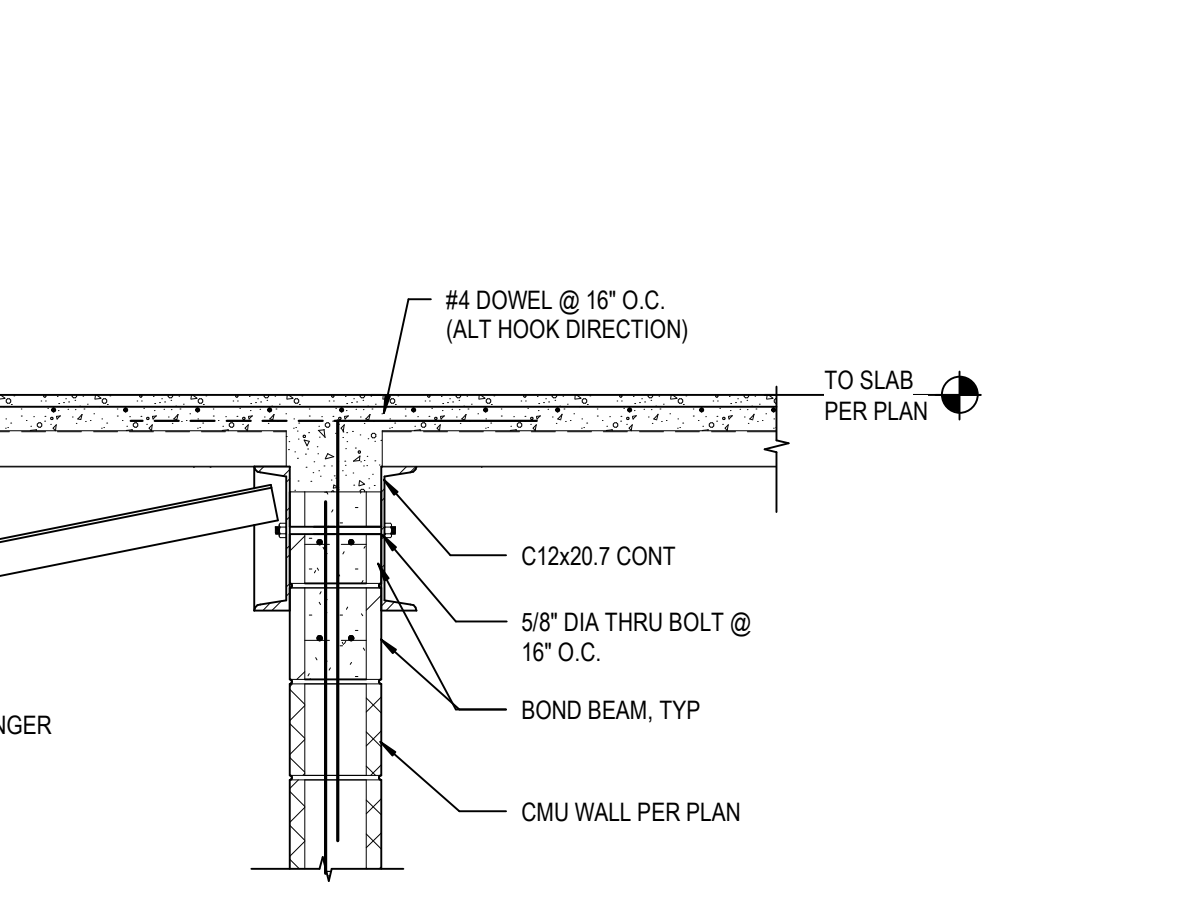
41 SECTION  
S4.7 SCALE: 3/4" = 1'-0"



42 SECTION  
S4.7 SCALE: 1 1/2" = 1'-0"



43 SECTION  
S4.7 SCALE: 3/4" = 1'-0"



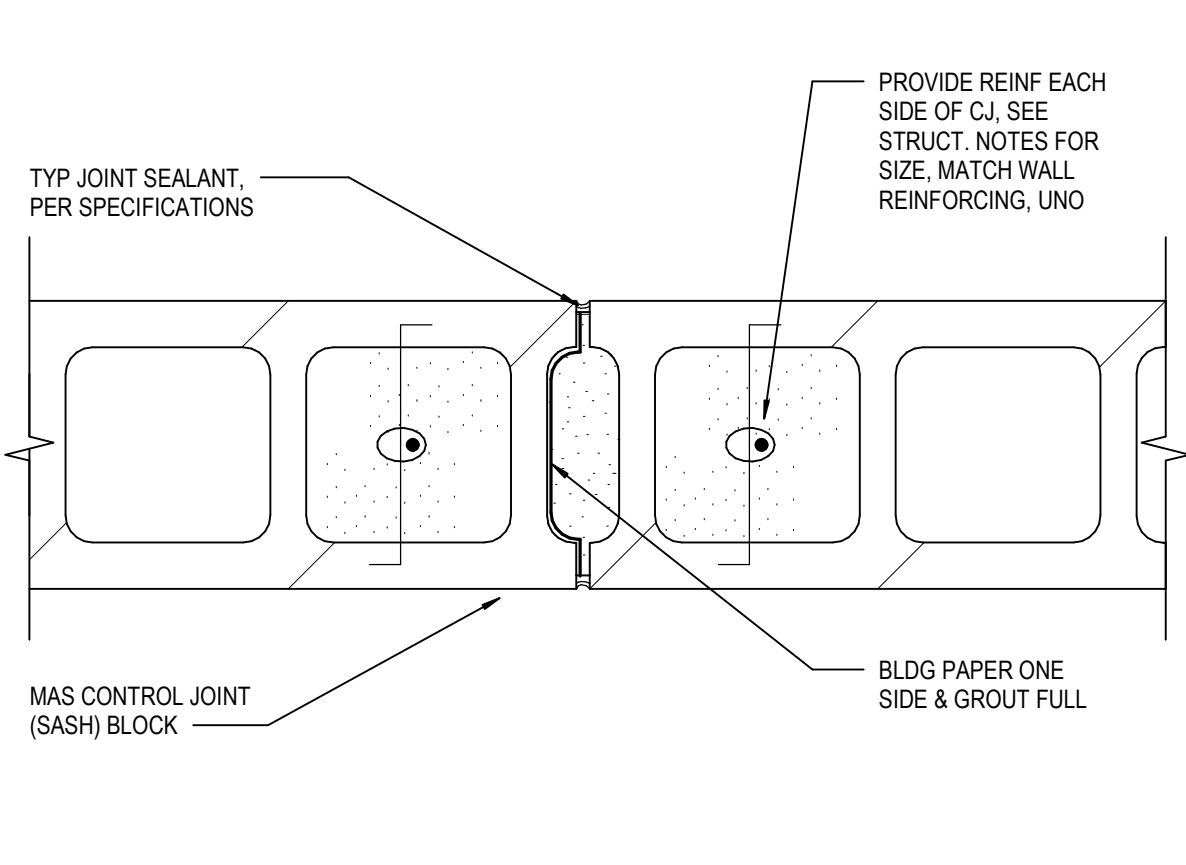
34 SECTION  
S4.7 SCALE: 3/4" = 1'-0"



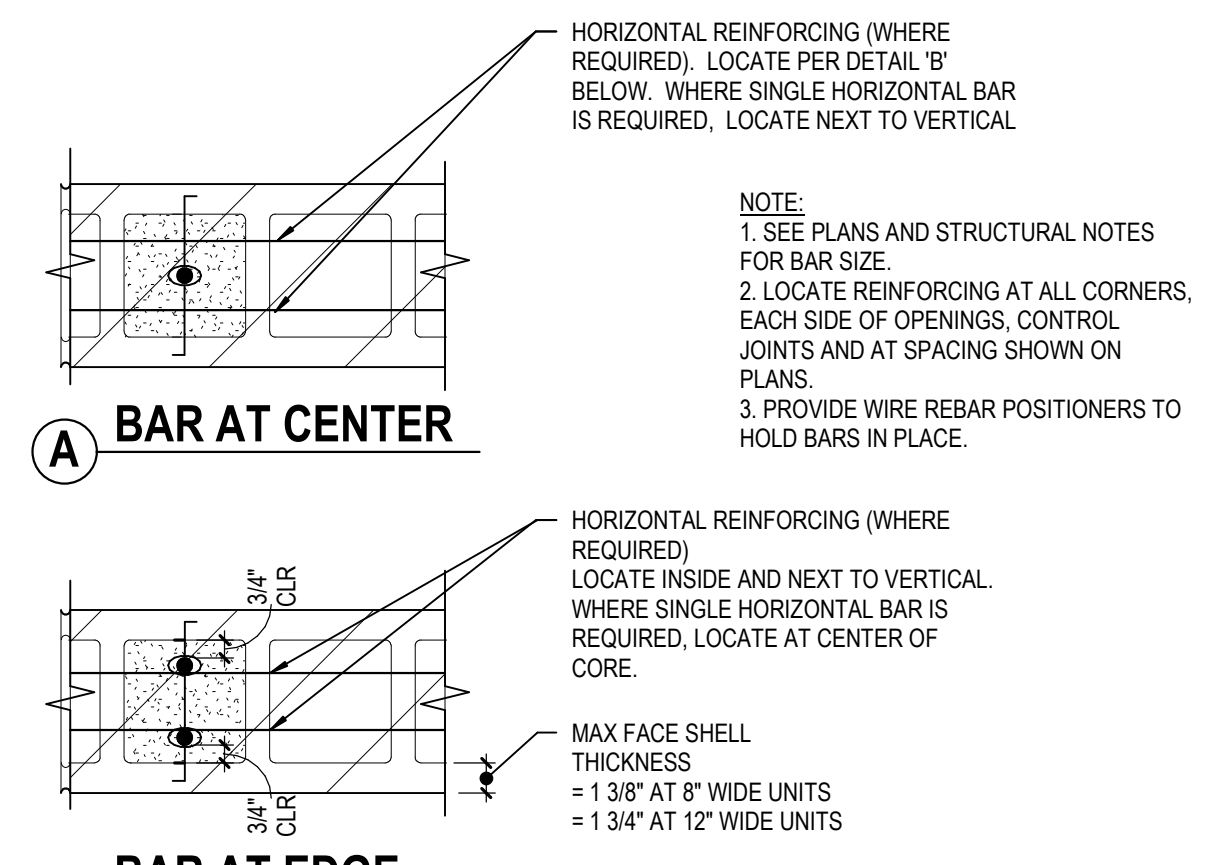
25 SECTION  
S4.7 SCALE: 3/4" = 1'-0"



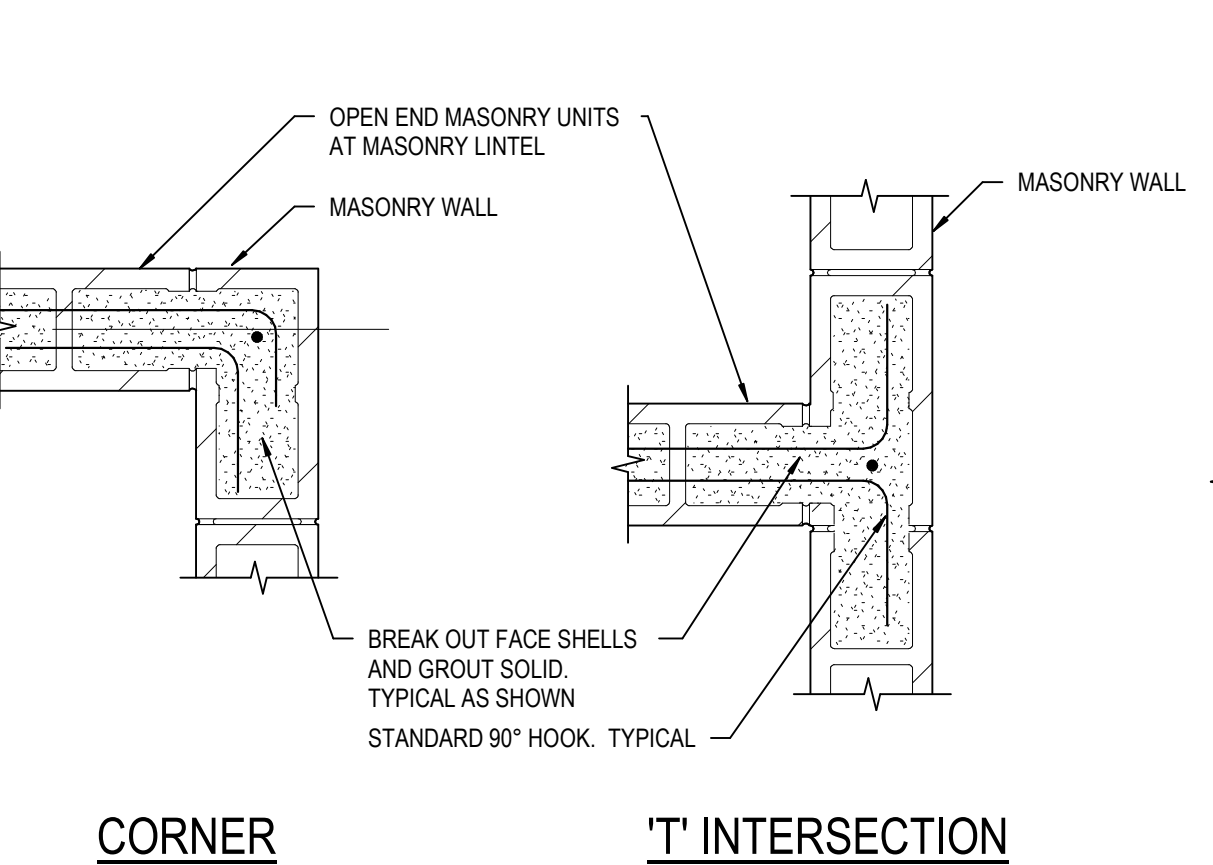
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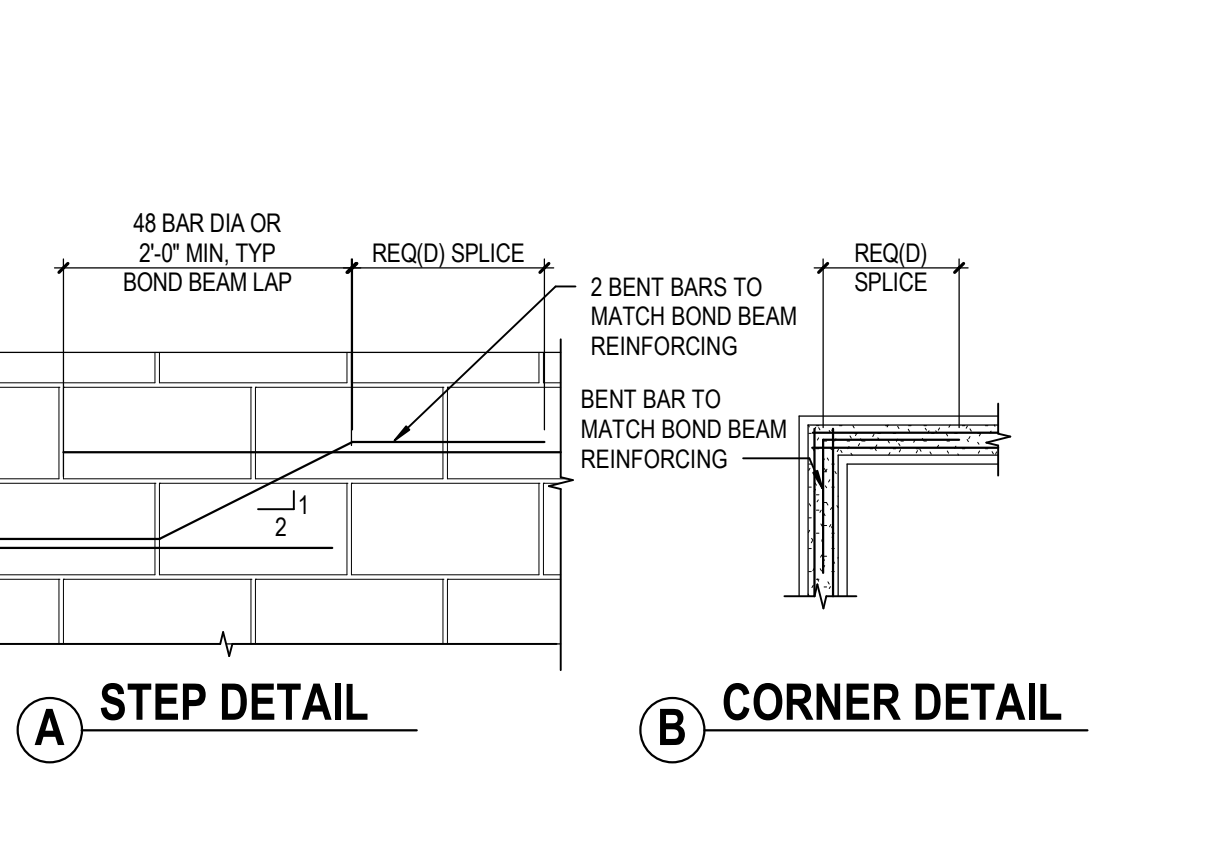
11 TYP CMU WALL CJ DETAIL  
S4.8 SCALE: 1/2" = 1'-0"



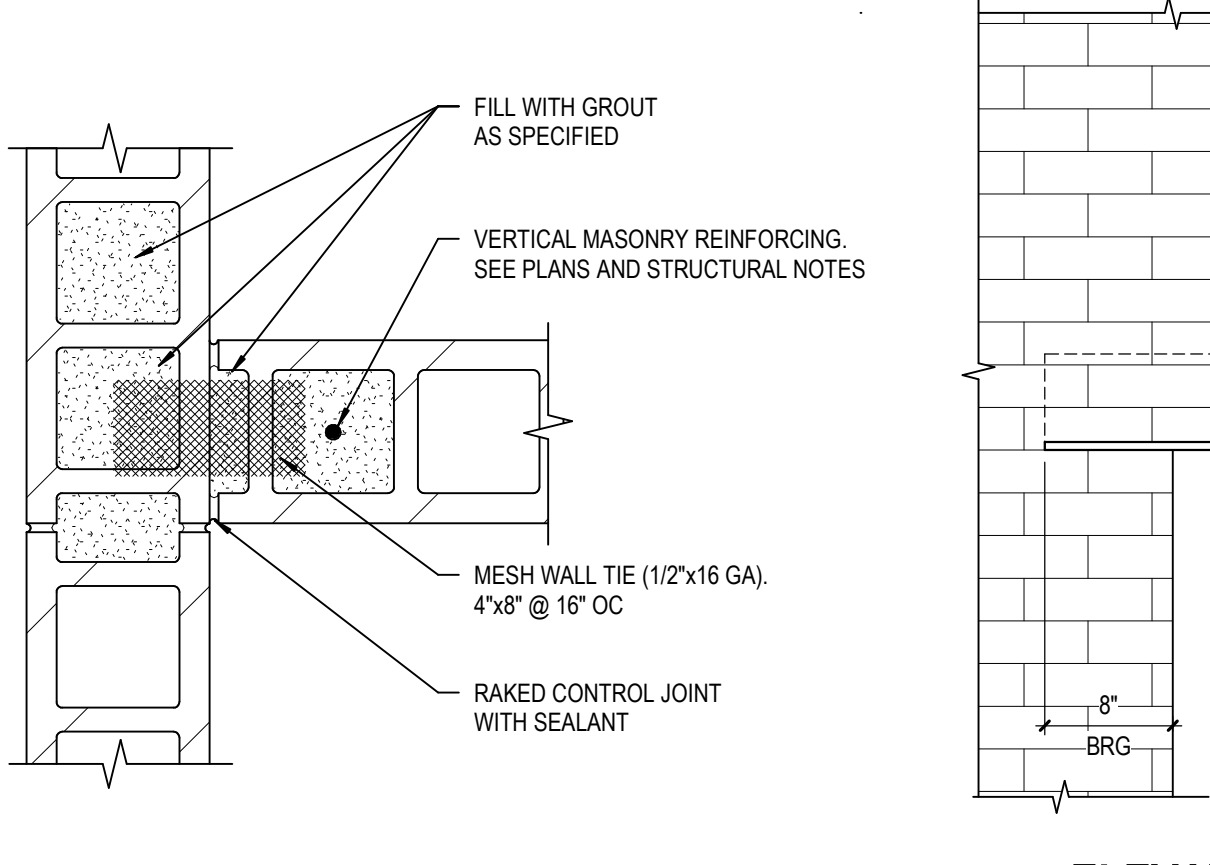
12 TYP CMU WALL REINF PLACEMENT  
S4.8 SCALE: 1/2" = 1'-0"



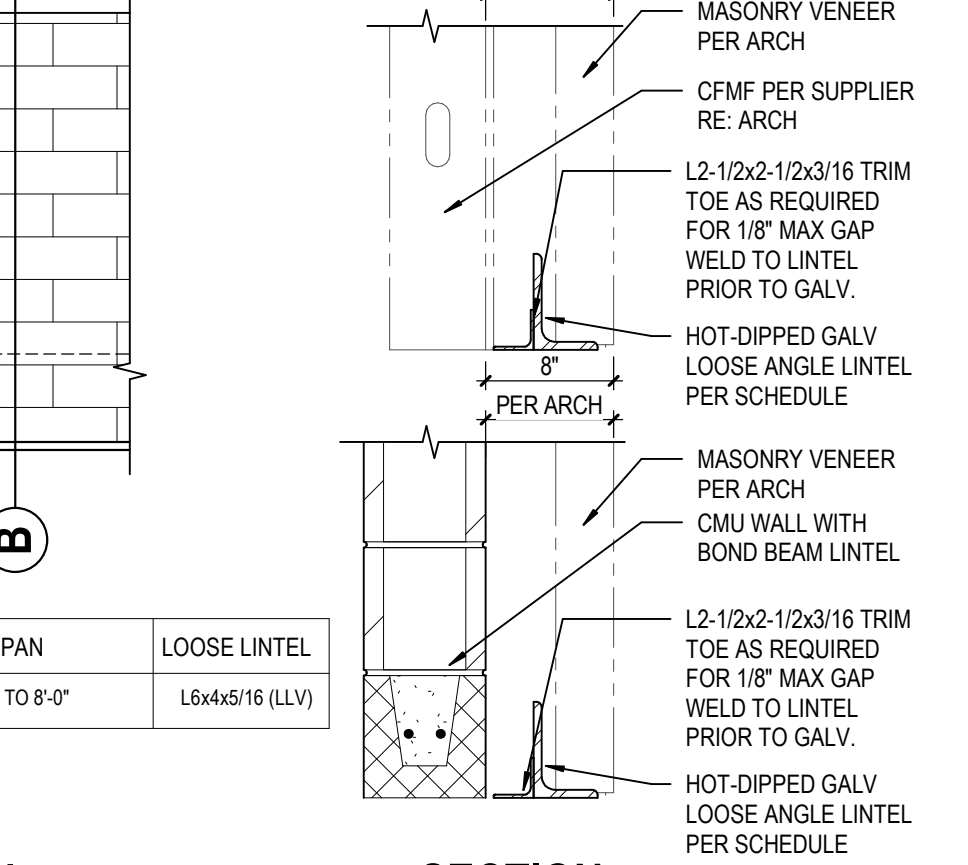
13 TYP LINTEL/BOND BM @ INTERSECTION  
S4.8 SCALE: 1" = 1'-0"



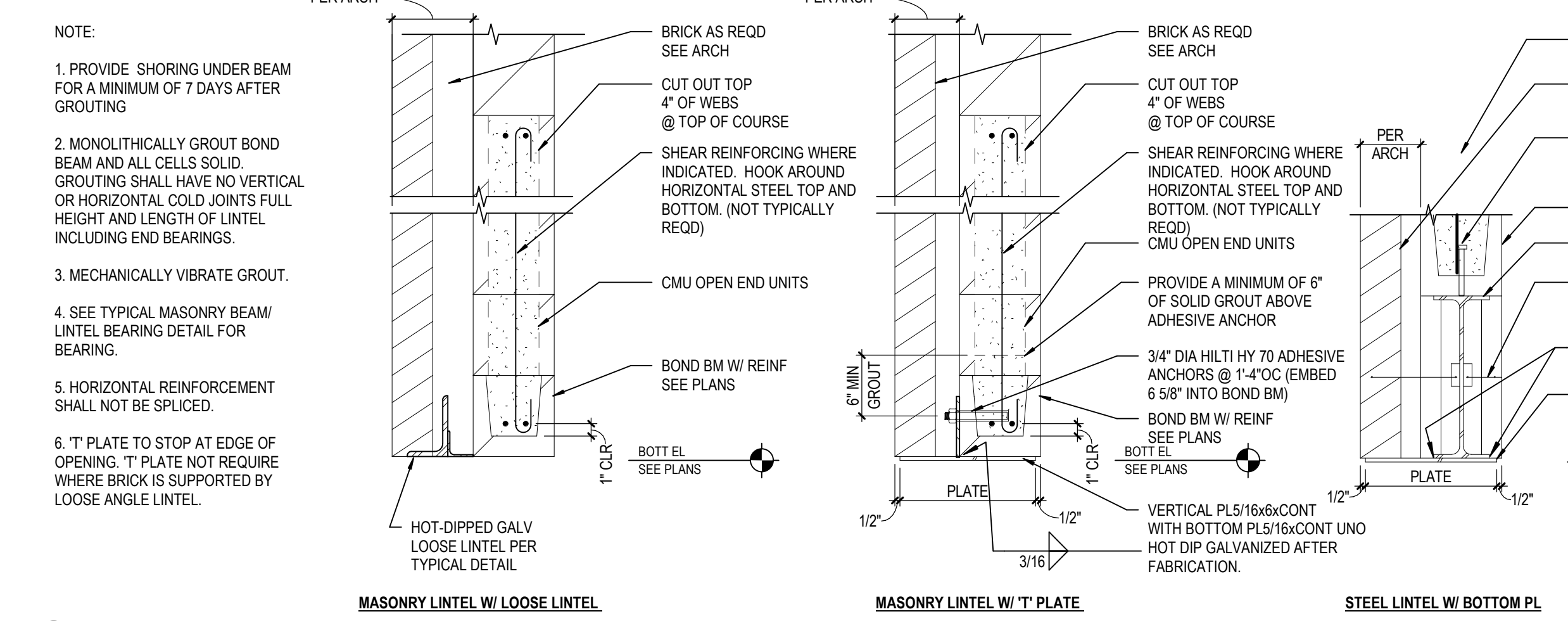
14 TYP BOND BEAM DETAIL  
S4.8 SCALE: 3/4" = 1'-0"



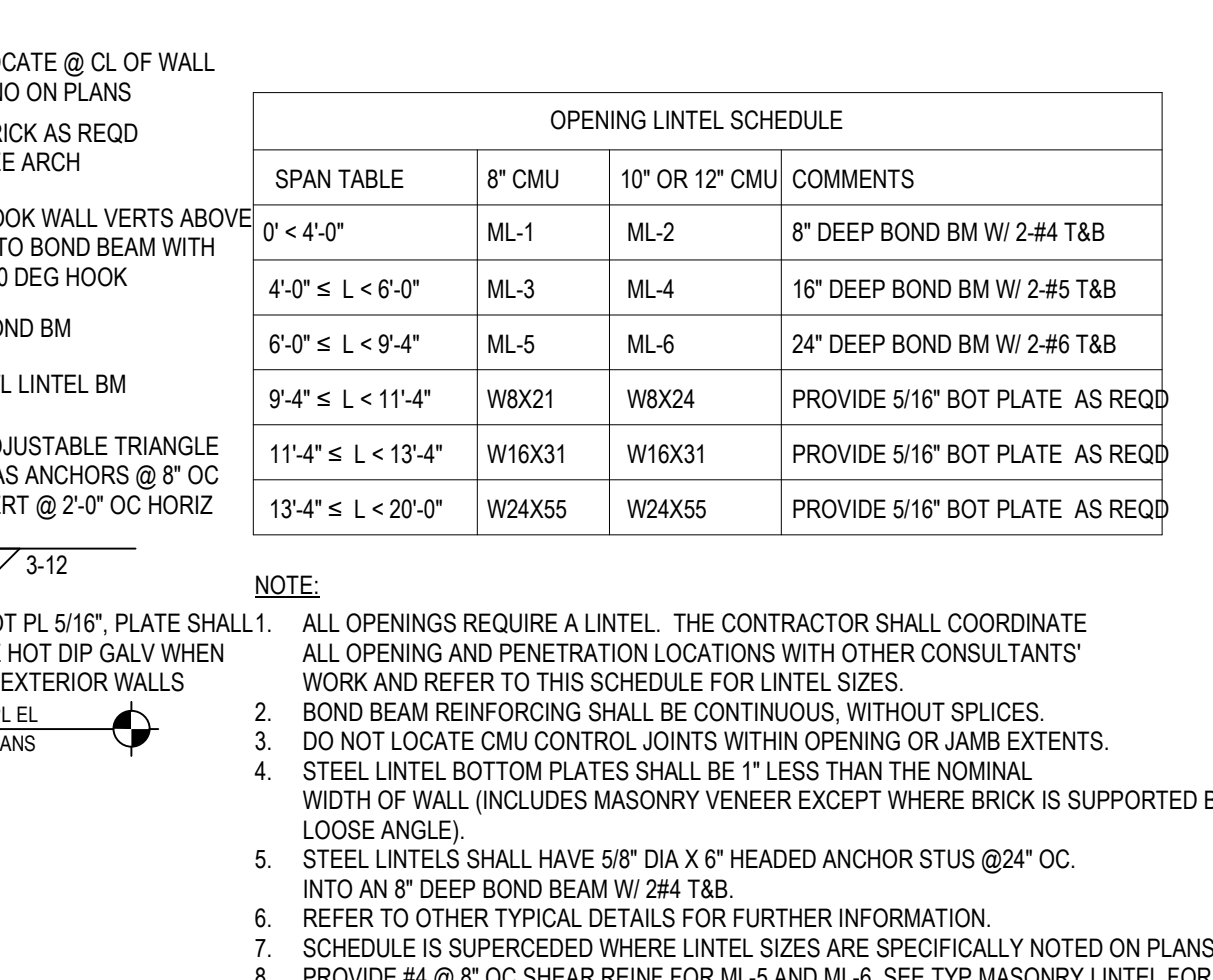
15 TYP INTERSECTION REINF DETAIL  
S4.8 SCALE: 1/2" = 1'-0"



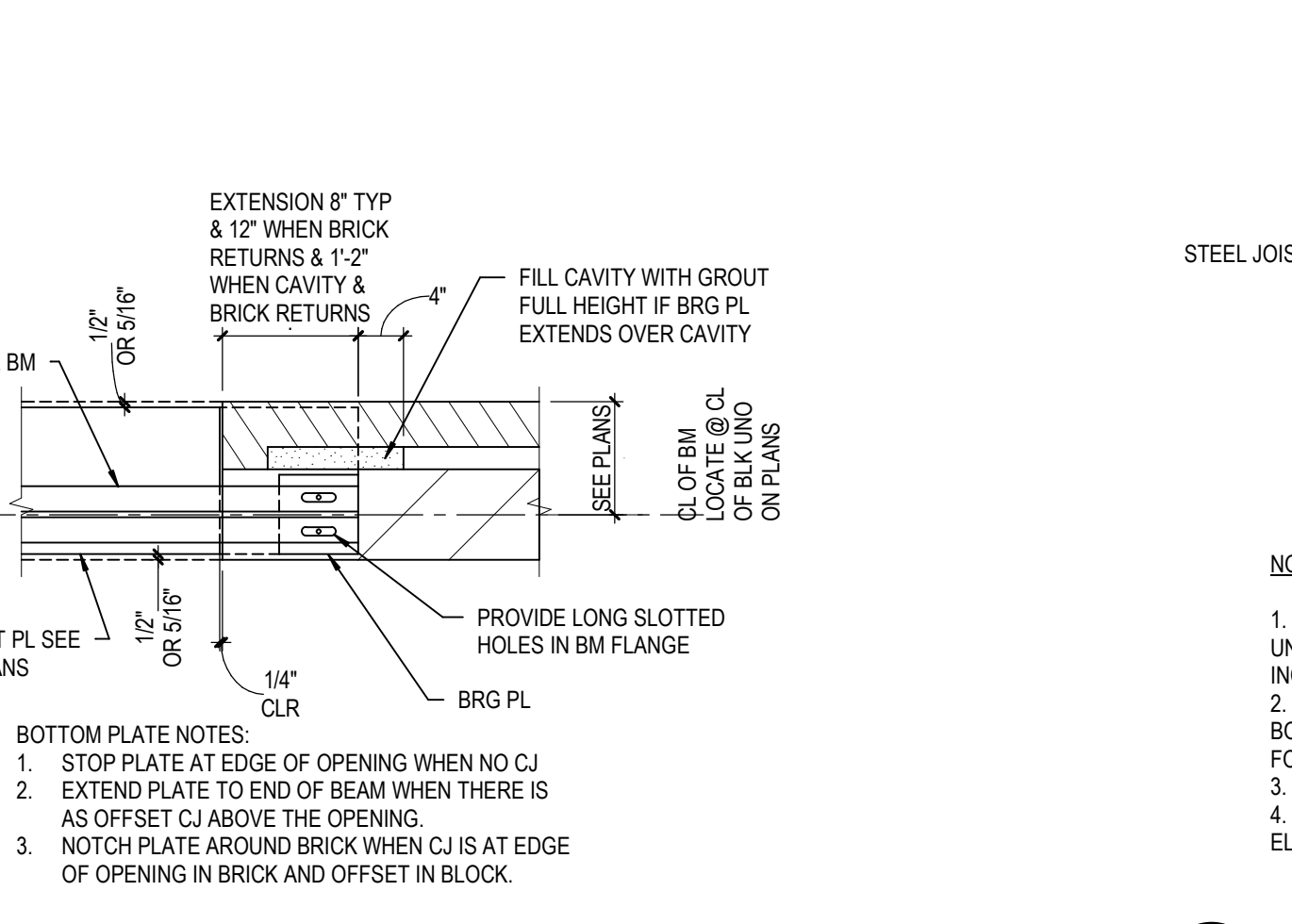
16 TYP LOOSE LINTEL DETAIL  
S4.8 SCALE: 1" = 1'-0"



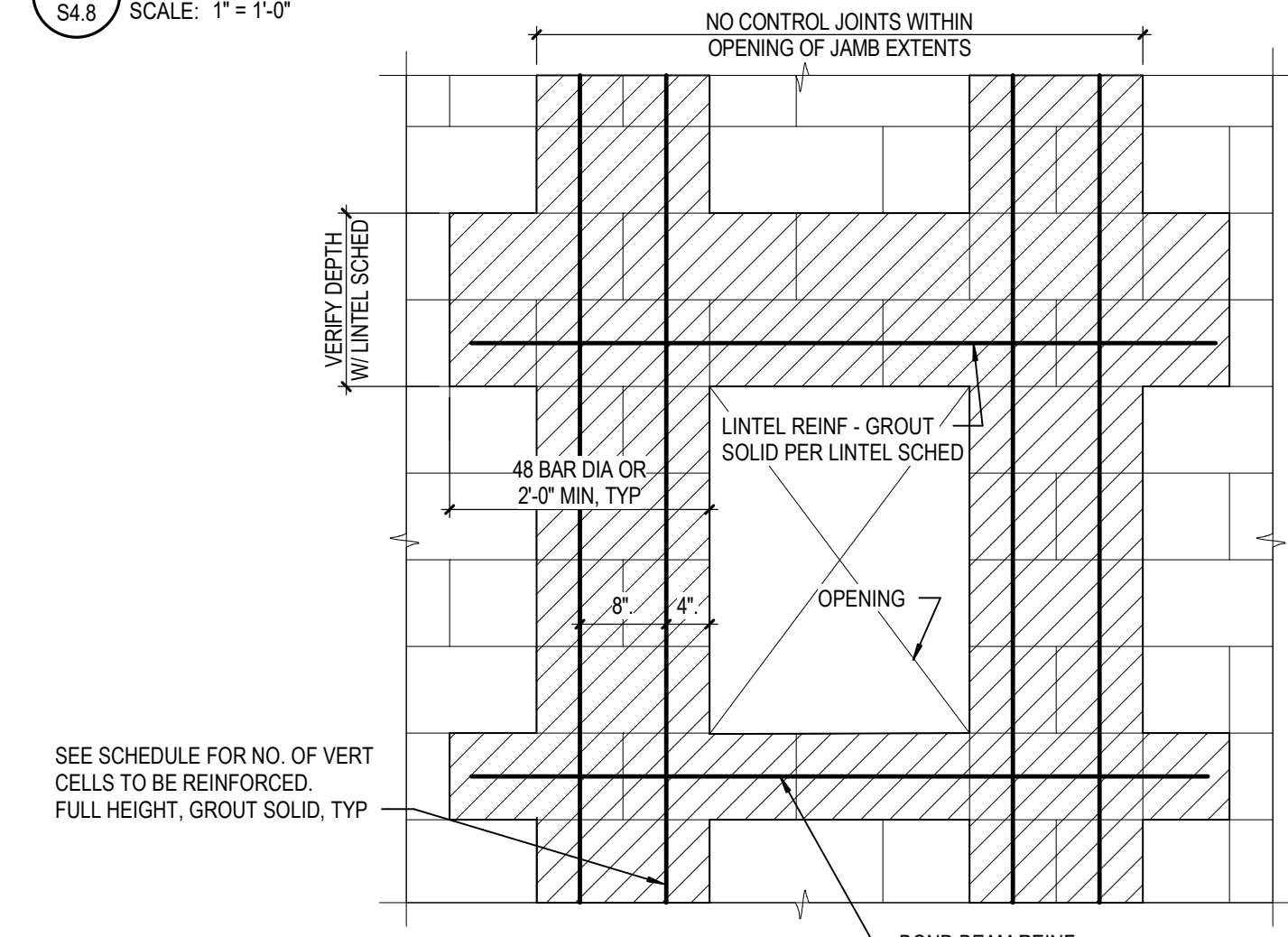
21 TYPICAL CMU LINTEL DETAIL  
S4.8 SCALE: 1" = 1'-0"



24 TYP STEEL LINTEL BEARING ON MASONRY  
S4.8 SCALE: 3/4" = 1'-0"



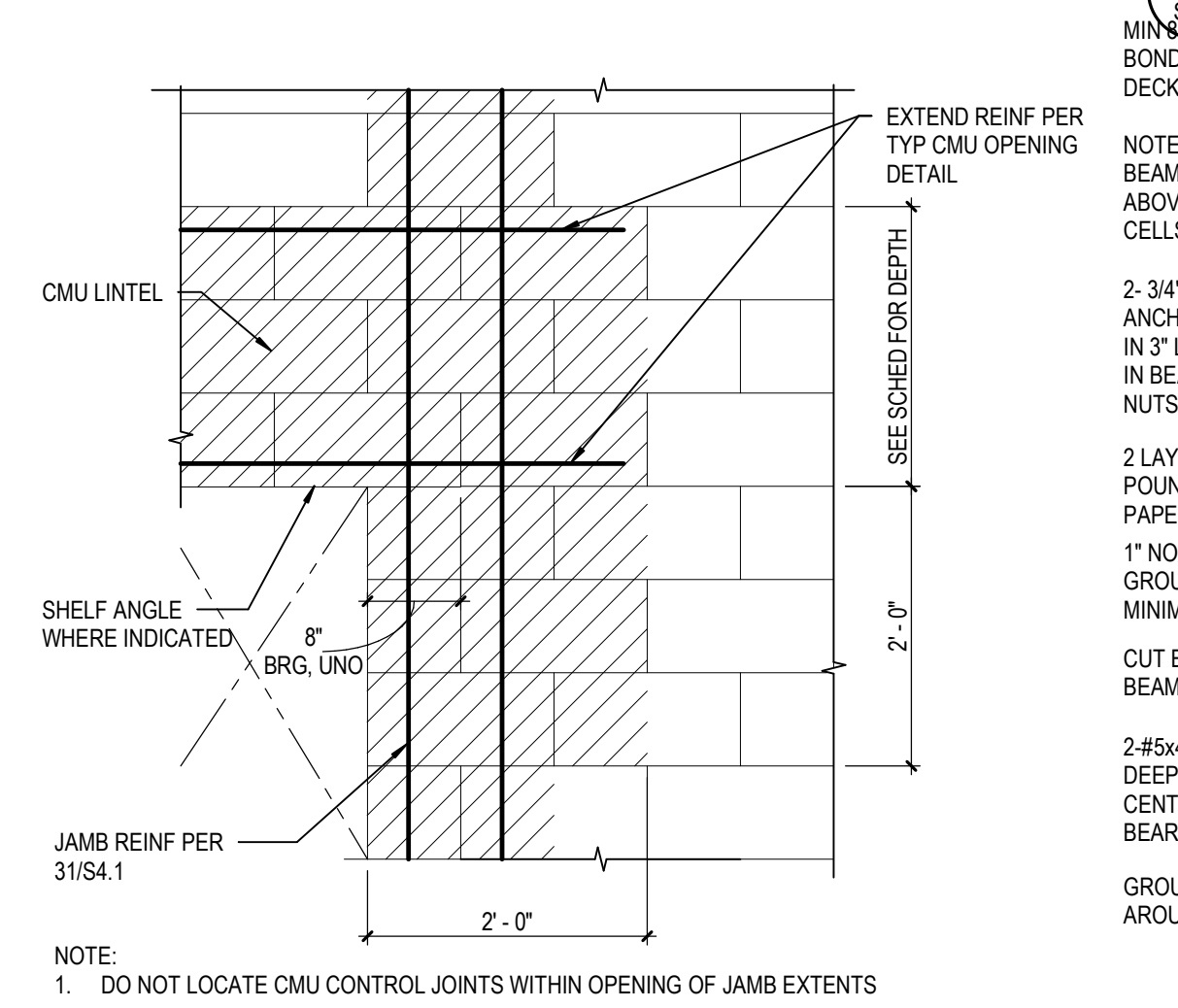
26 TYP MECH PENETRATION IN CMU WALL  
S4.8 SCALE: 1/2" = 1'-0"



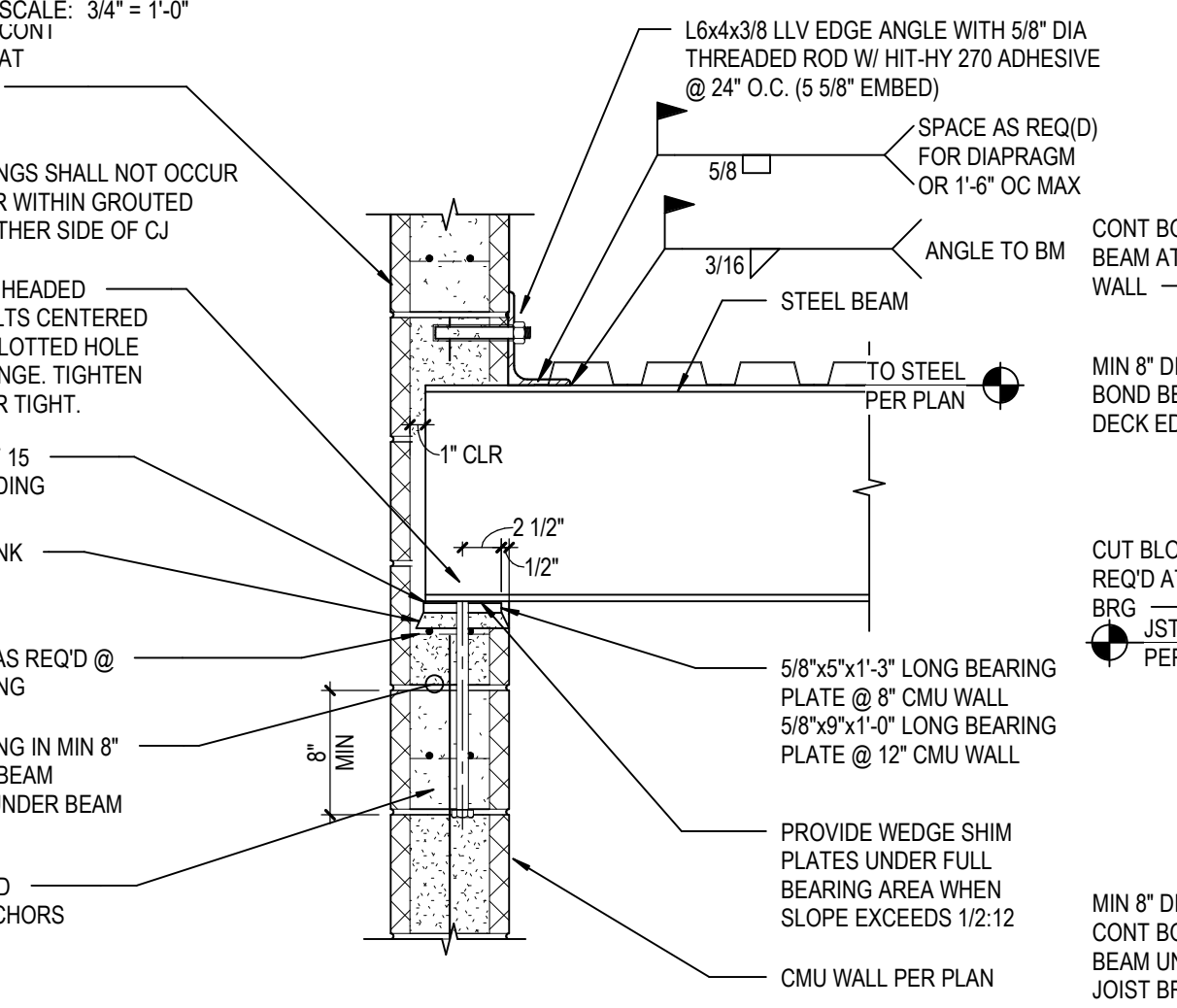
31 TYPICAL CMU OPENING  
S4.8 SCALE: 1" = 1'-0"

JAMB REINFORCEMENT SCHEDULE			
OPENING WIDTH	WALL REINF SPACING	NO. OF REINFORCED CELLS EACH JAMB	
≤ 4'-0"	8" OC	3	
	16" OC	2	
	24" OC	1	
	32" OC	1	
	48" OC	1	
> 4'-0" ≤ 8'-0"	8" OC	6	
	16" OC	3	
	24" OC	2	
	32" OC	2	
	48" OC	1	
> 8'-0" ≤ 12'-0"	8" OC	9	
	16" OC	5	
	24" OC	3	
	32" OC	3	
	48" OC	2	

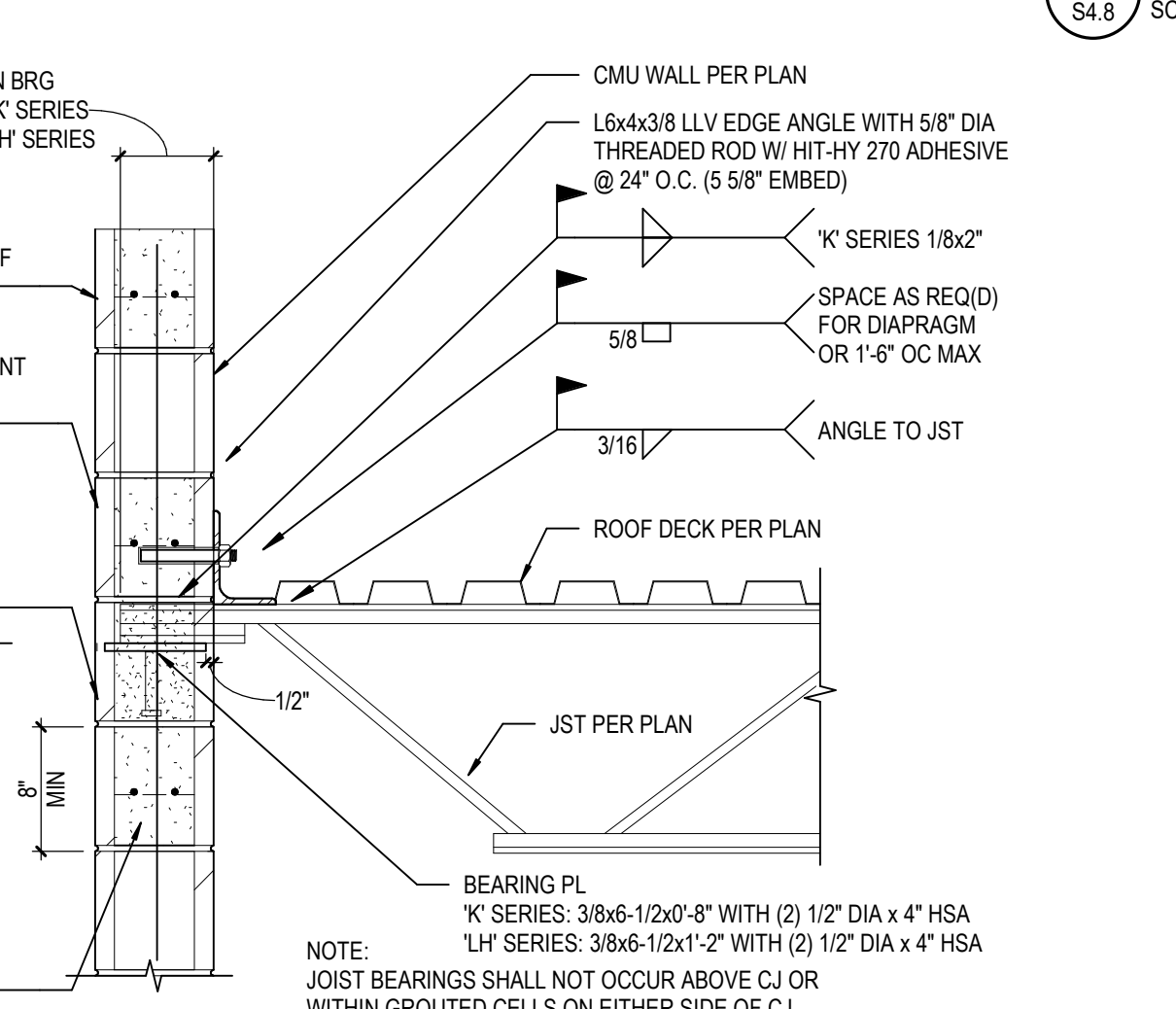
- NOTES:
1. PROVIDE SAME BAR SIZE AND QUANTITY OF BARS PER CELL AS NOTED FOR WALL WHICH OPENING IS LOCATED IN.
  2. SCHEDULE IS SUPERSEDED IF SPECIFICALLY NOTED OTHERWISE ON THE PLANS.
  3. DO NOT LOCATE CMU CONTROL JOINTS WITHIN OPENING OR JAMB EXTENTS.



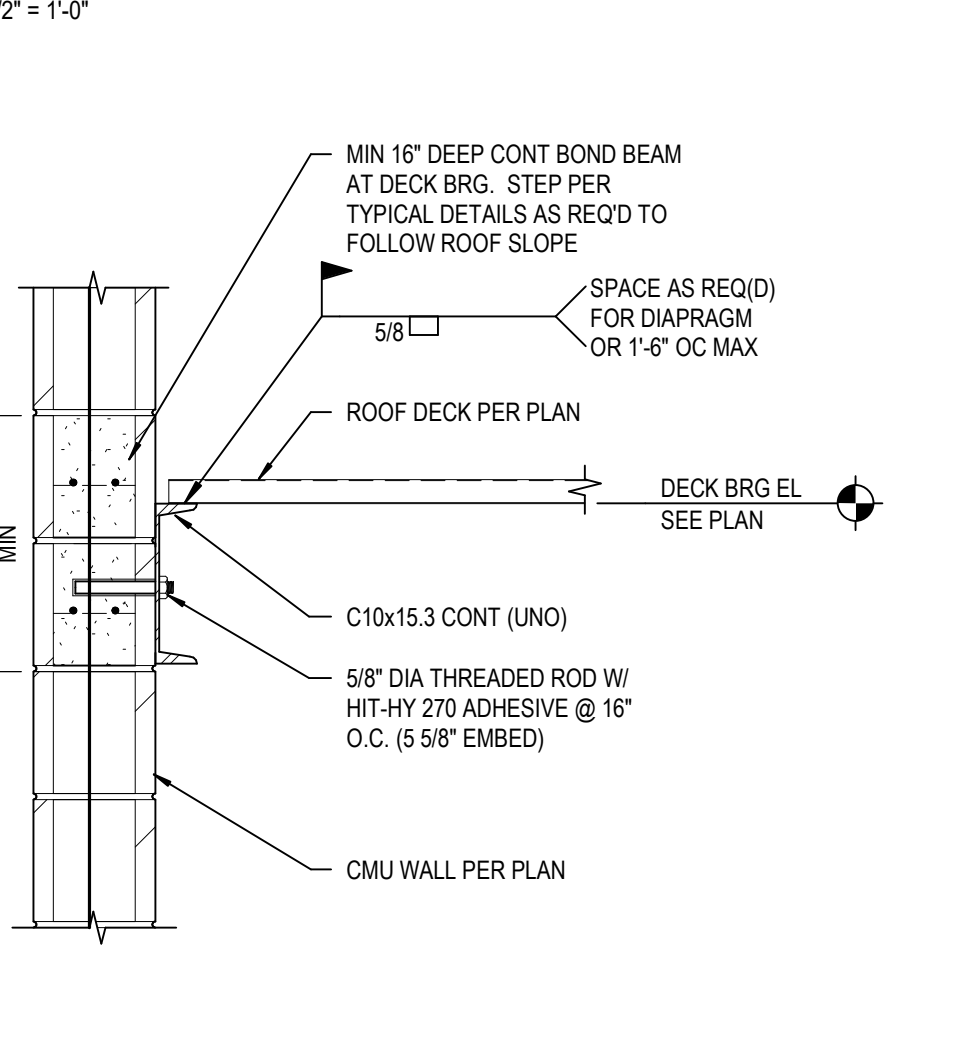
33 TYP CMU LINTEL BRG  
S4.8 SCALE: 3/4" = 1'-0"



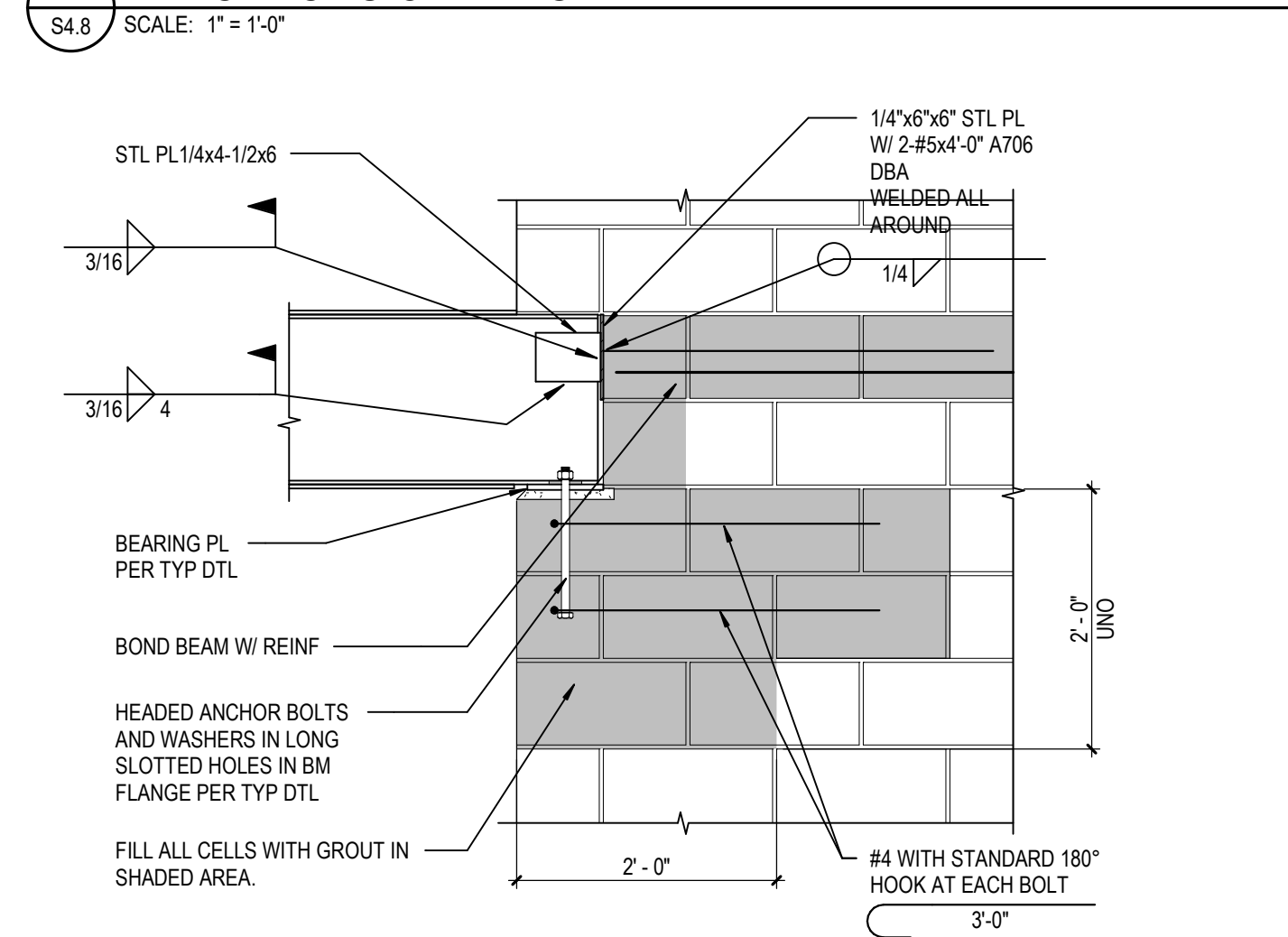
34 TYP STEEL BEAM BEARING AT MASONRY WALL  
S4.8 SCALE: 1" = 1'-0"



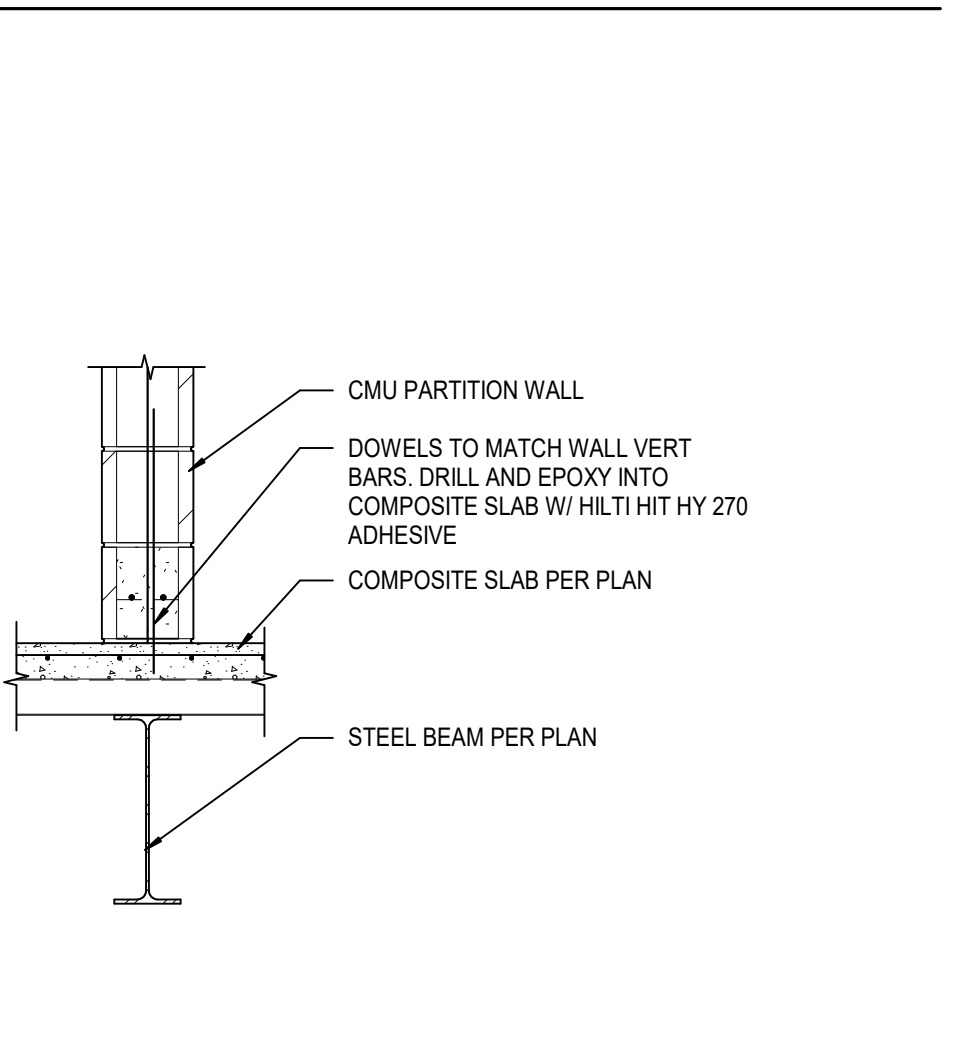
35 TYP JOIST BEARING AT MASONRY WALL  
S4.8 SCALE: 1" = 1'-0"



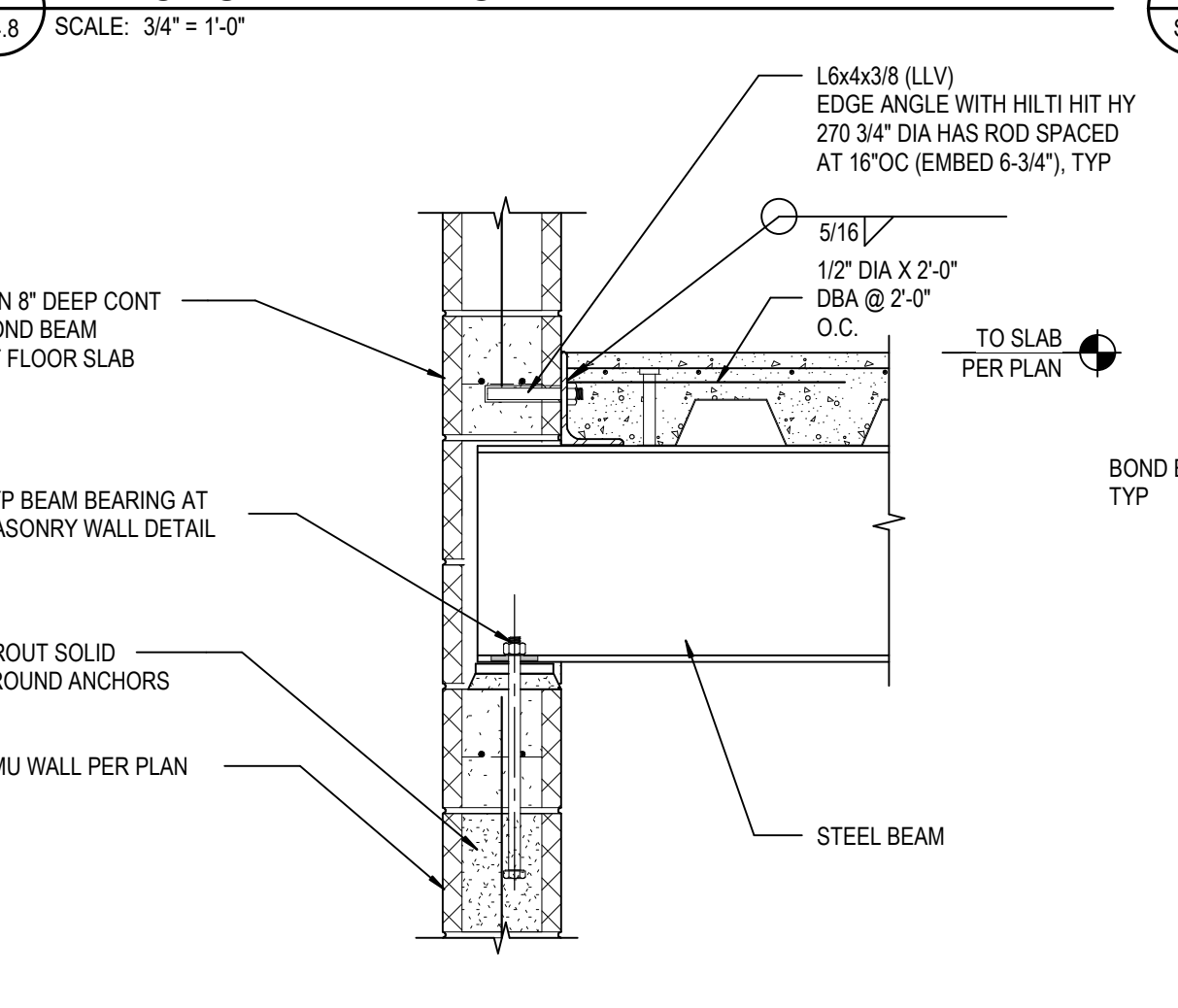
36 TYP DECK TO MASONRY WALL DETAIL  
S4.8 SCALE: 1" = 1'-0"



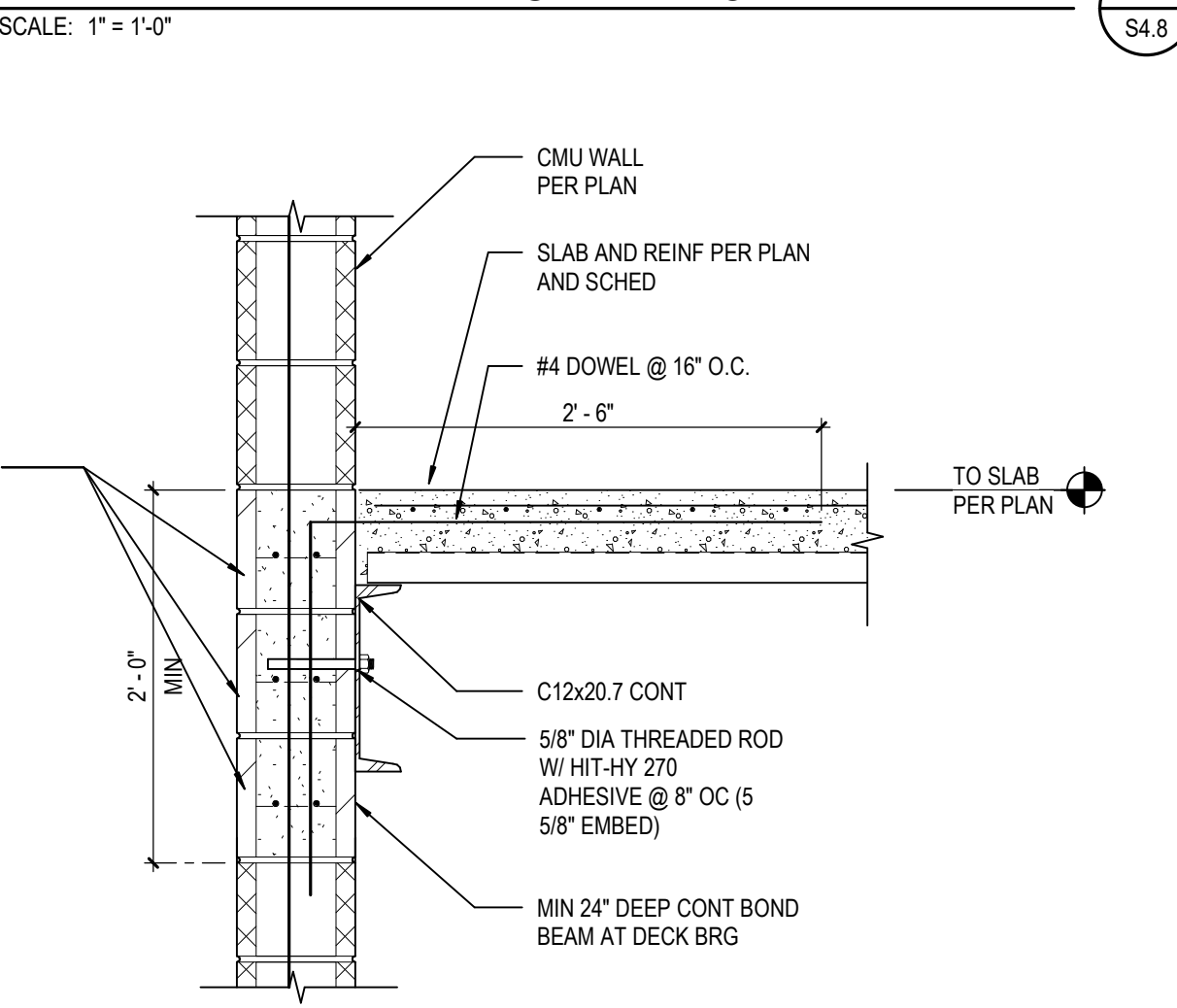
41 TYP CMU COLLECTOR BEAM DETAIL  
S4.8 SCALE: 3/4" = 1'-0"



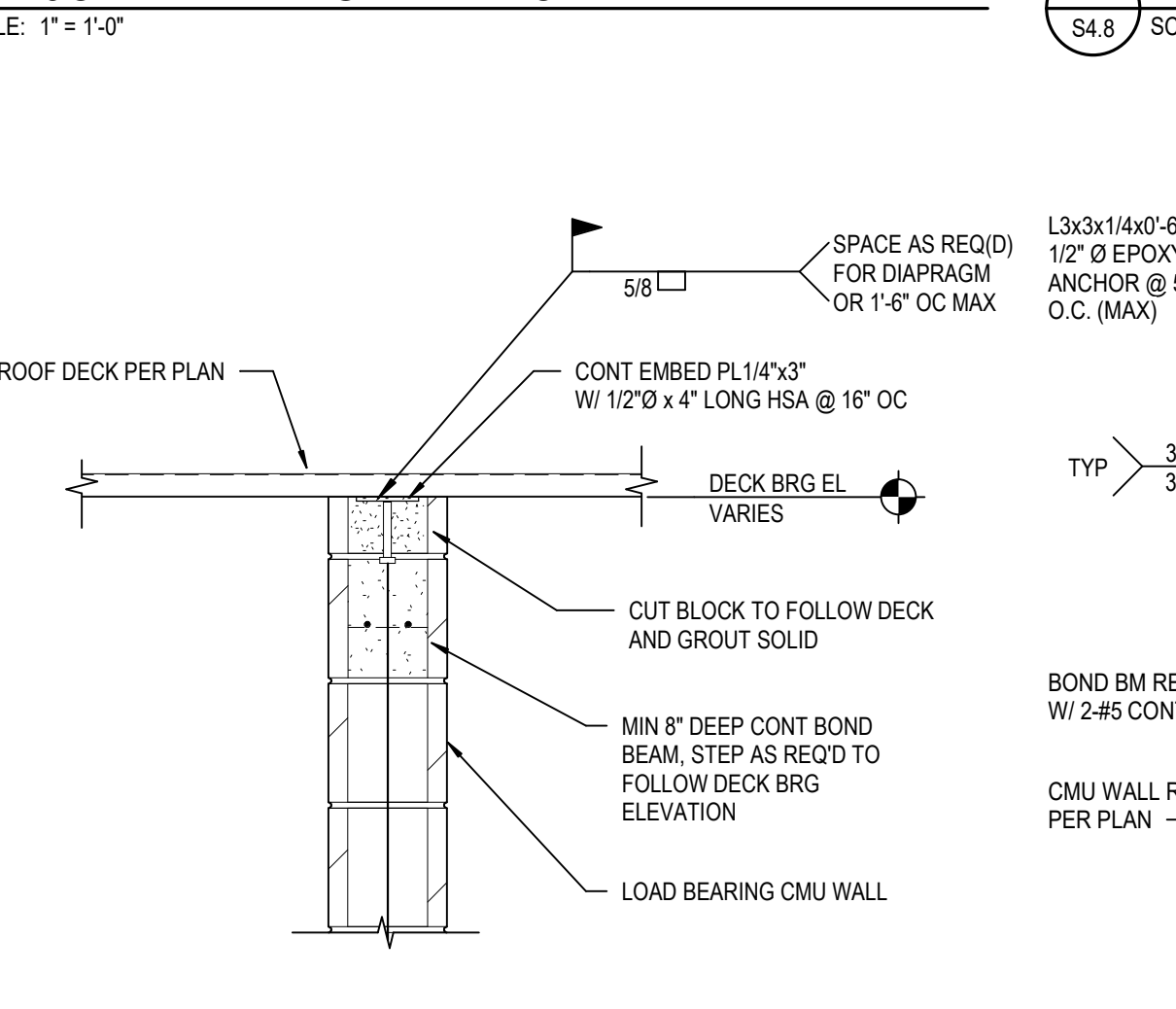
42 TYP ELEVATED CMU WALLSUPPORT DETAIL  
S4.8 SCALE: 3/4" = 1'-0"



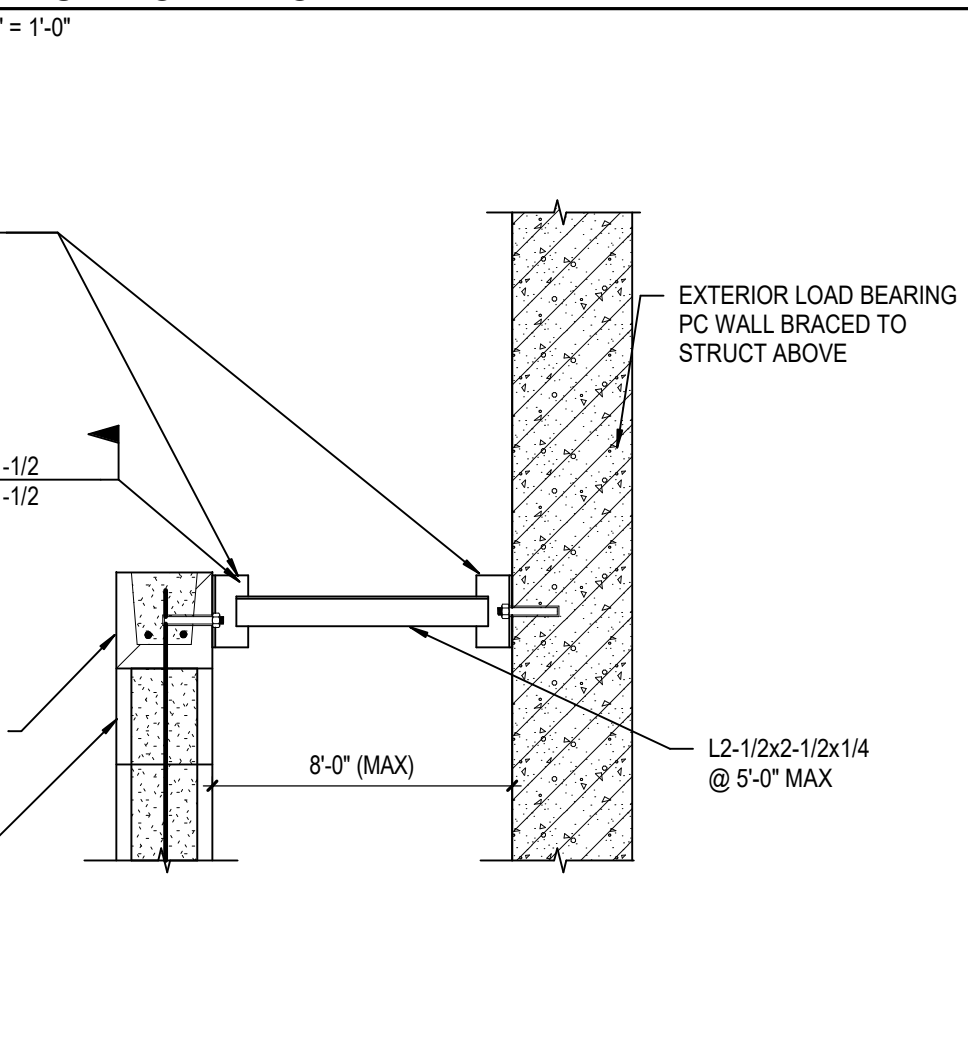
43 TYP FLOOR BEAM AT MASONRY DETAIL  
S4.8 SCALE: 1" = 1'-0"



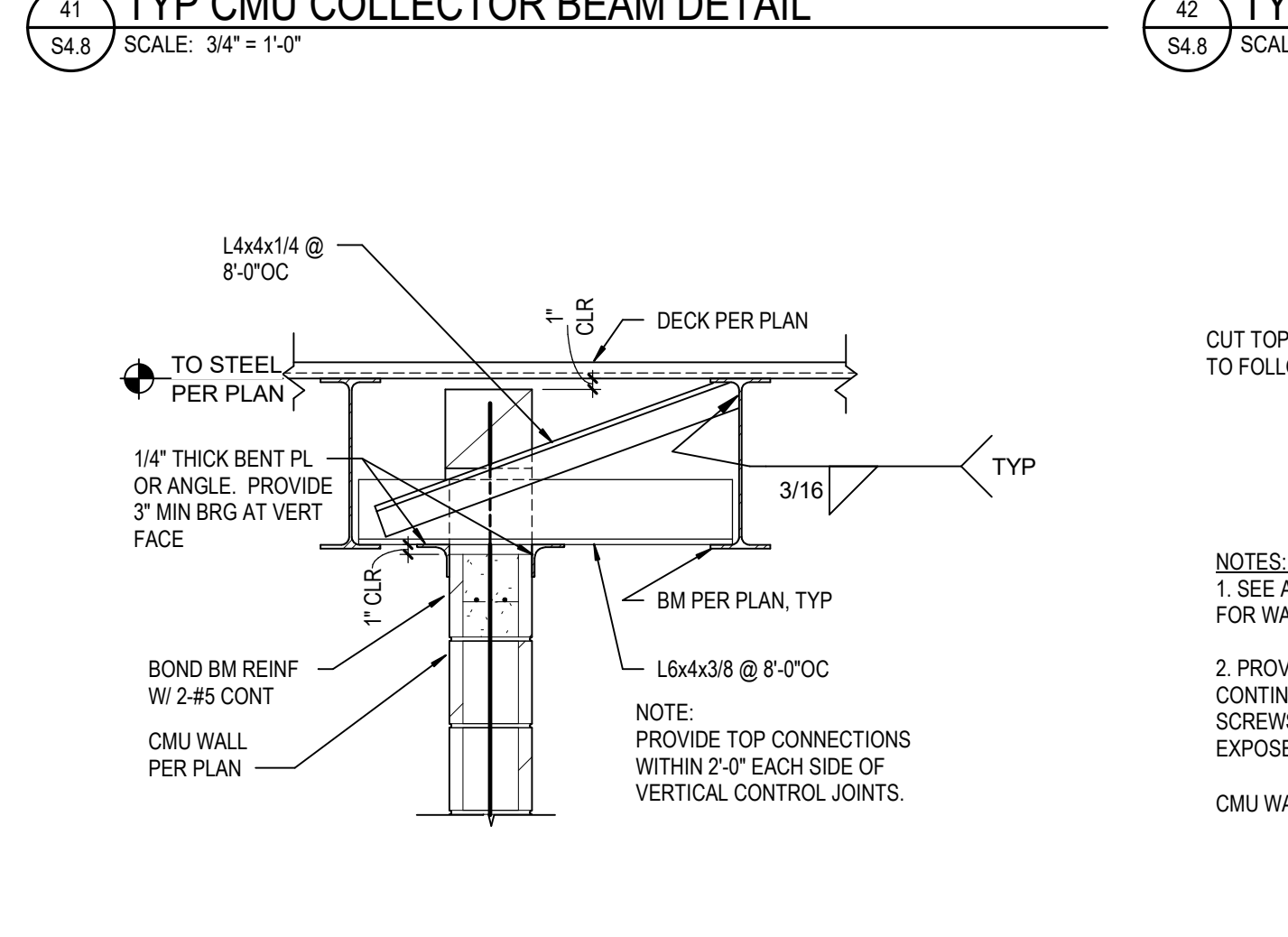
44 TYP FLOOR SLAB AT MASONRY DETAIL  
S4.8 SCALE: 1" = 1'-0"



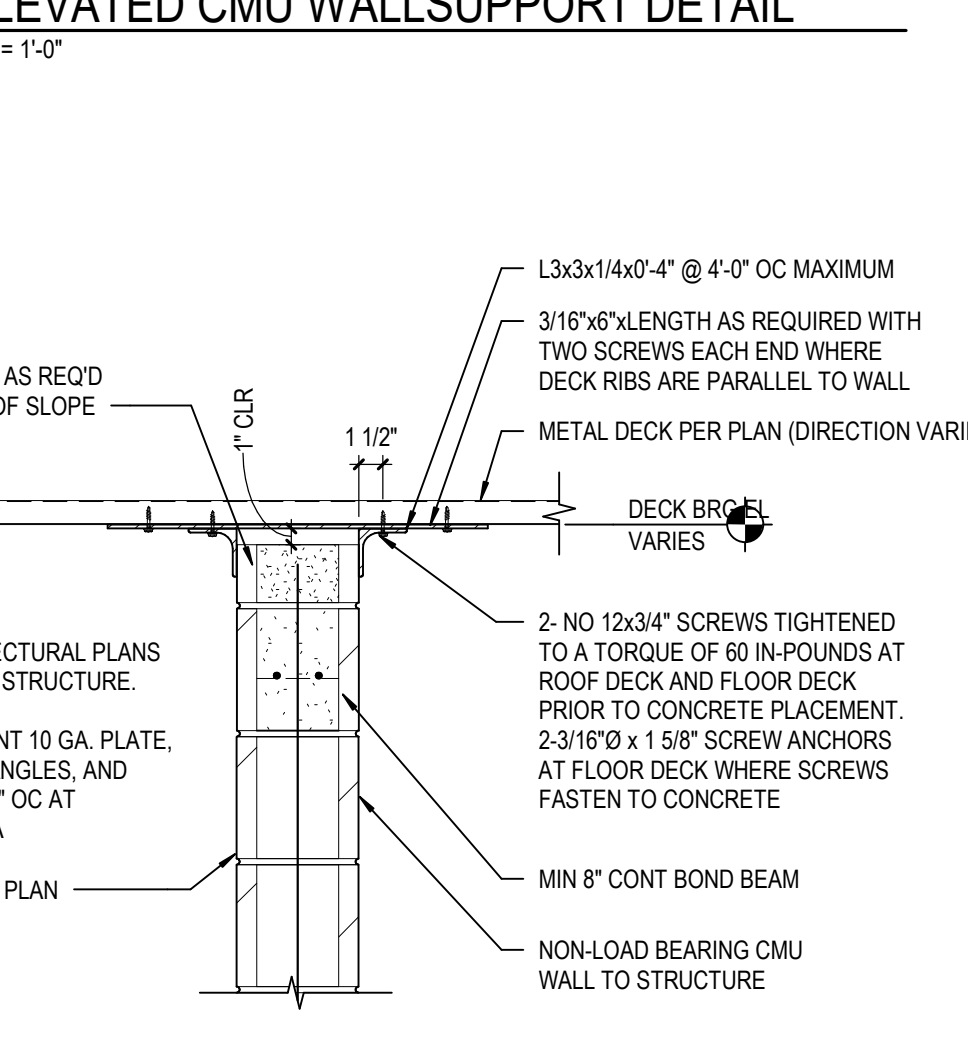
45 TYP INTERIOR BRG ON CMU WALL DETAIL  
S4.8 SCALE: 1" = 1'-0"



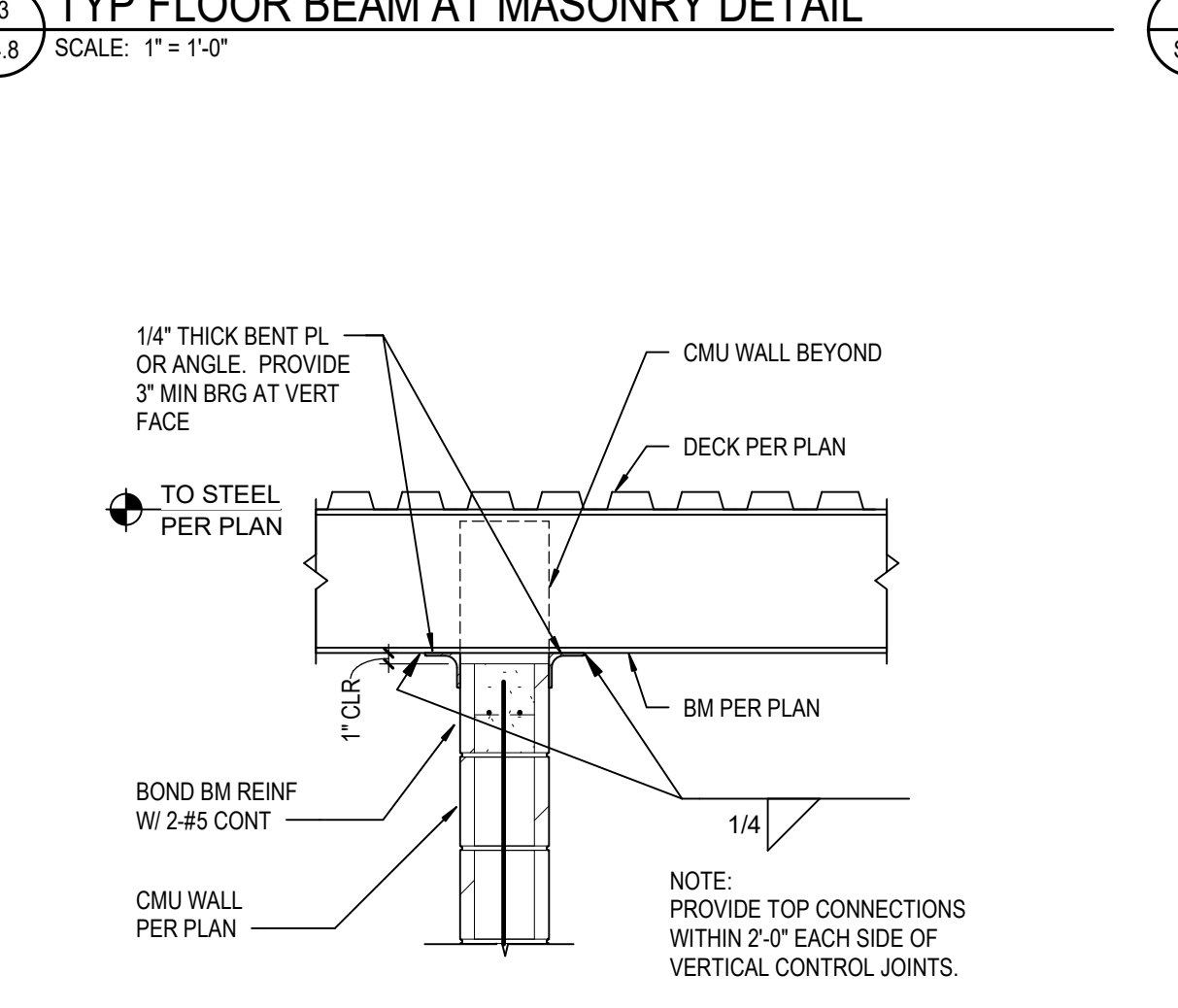
46 TYP PARTITION WALL BRACE TO ADJACENT WALL  
S4.8 SCALE: 3/4" = 1'-0"



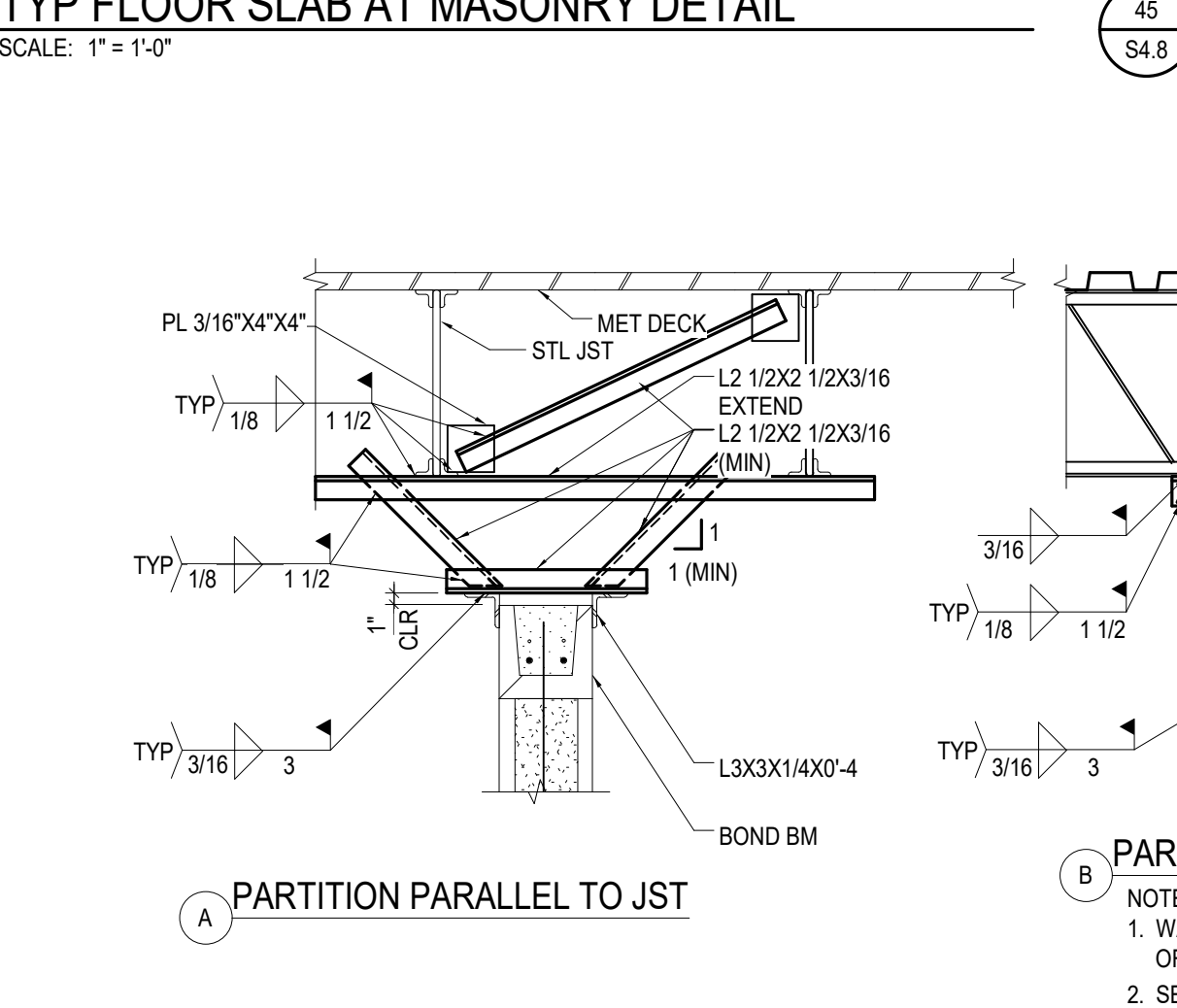
51 TYP CMU PARTITION WALL BRACING DETAIL  
S4.8 SCALE: 3/4" = 1'-0"



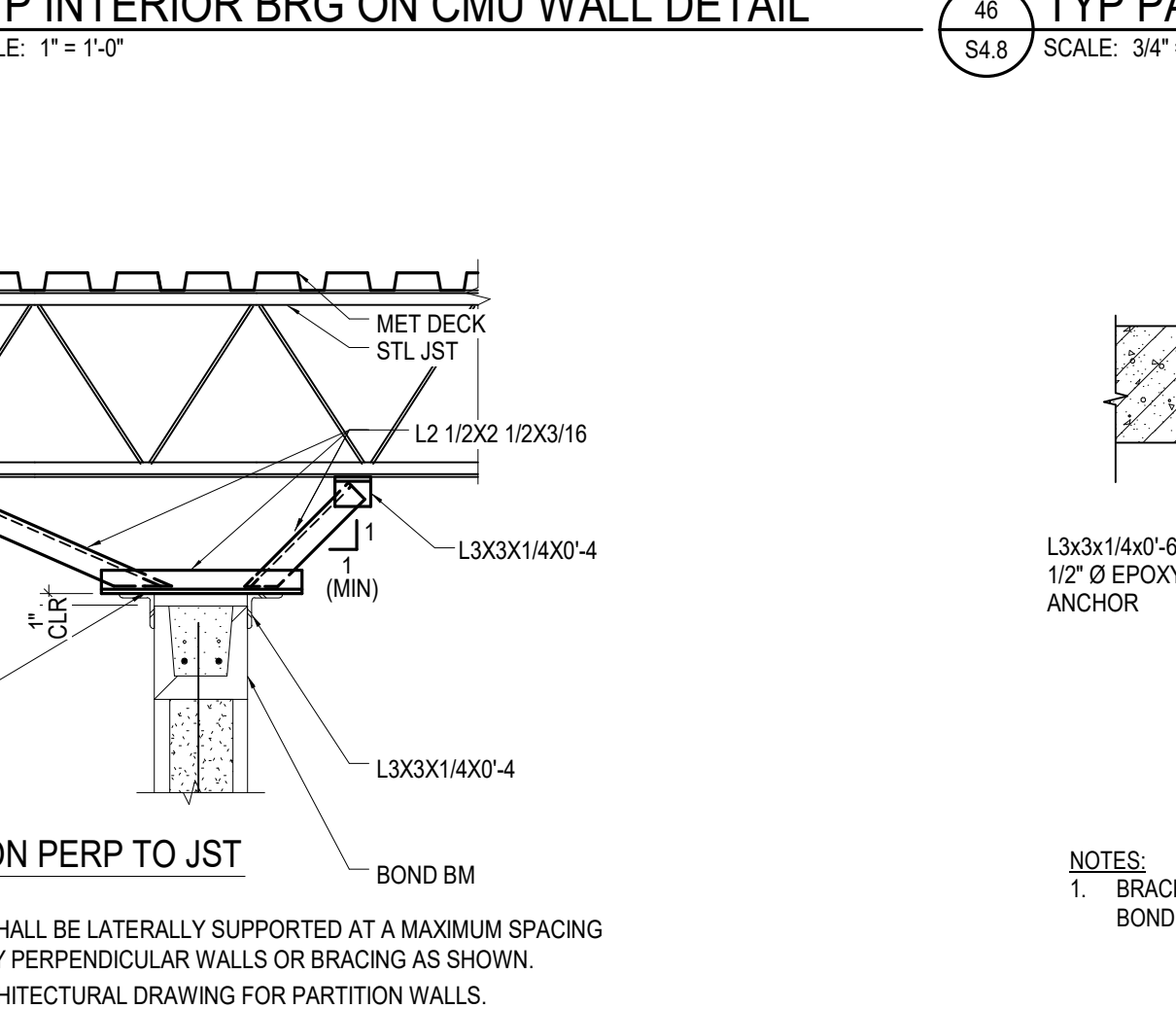
52 TYP CMU PARTITION WALL BRACING DETAIL  
S4.8 SCALE: 1" = 1'-0"



53 TYP CMU PARTITION WALL BRACING DETAIL  
S4.8 SCALE: 3/4" = 1'-0"



54 TYP CMU PARTITION BRACING DETAIL  
S4.8 SCALE: 3/4" = 1'-0"



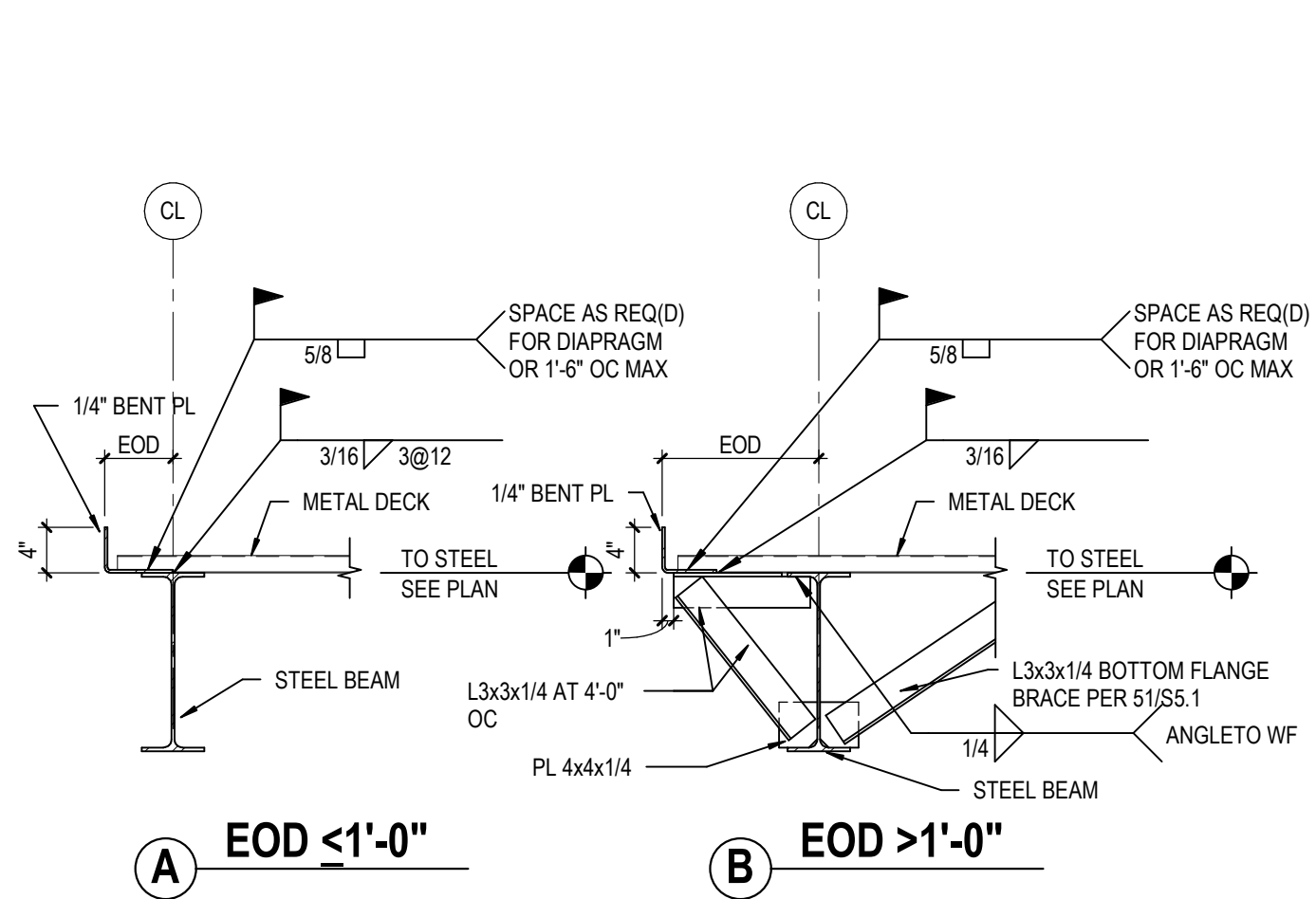
56 TYP PARTITION WALL BRACE TO ADJACENT WALL  
S4.8 SCALE: 3/4" = 1'-0"







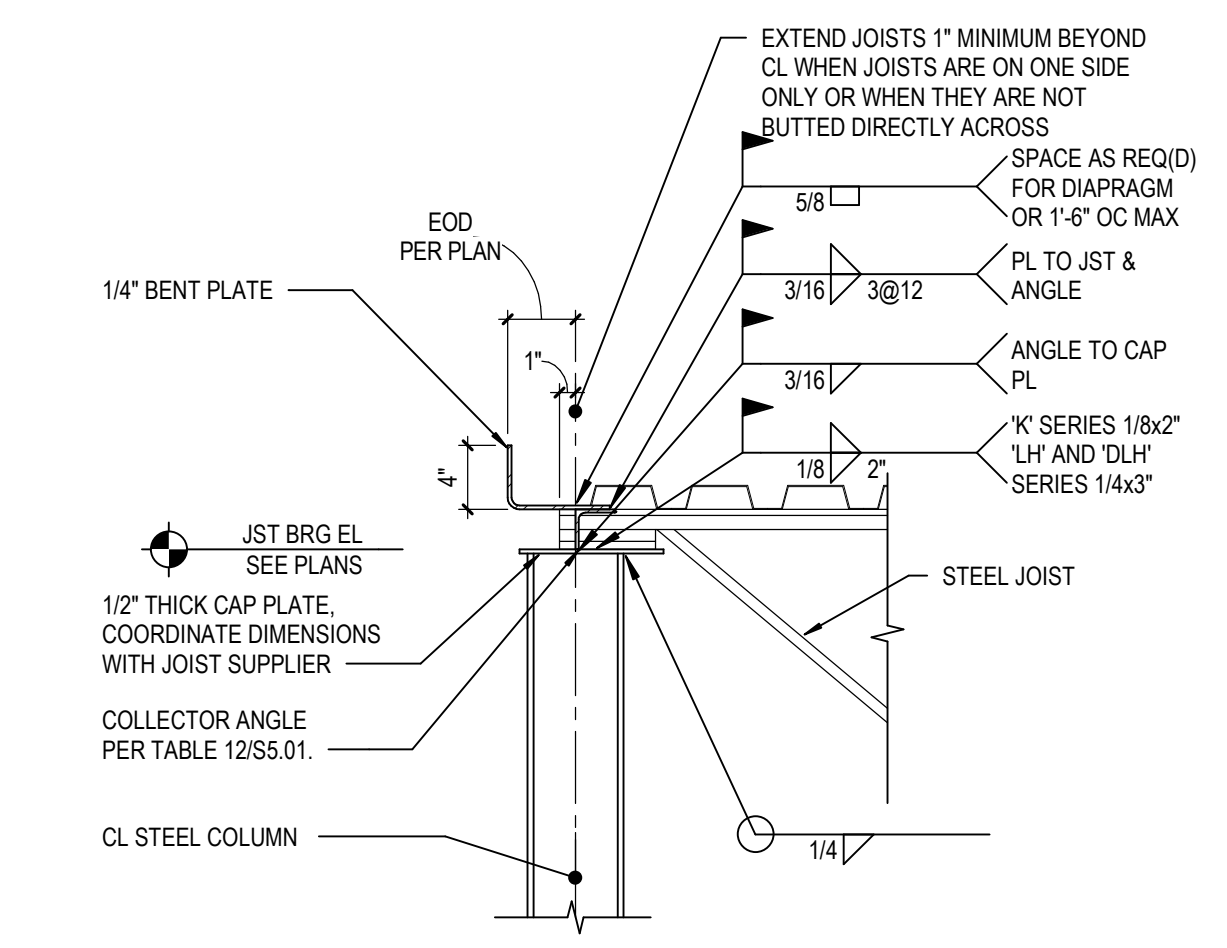
BN 360/13-20102-01 Lee's Summit Middle School 4/13/20102-01 Lee's Summit Middle School 4/13/20102-01  
10/7/2020 4:38:07 PM



JST SEAT DEPTH	ANGLE SIZE
2-1/2"	L2-1/2x2-1/2x3/16
3-1/2"	L3-1/2x3x1/4 LLV
5"	L5x3x1/4 LLV

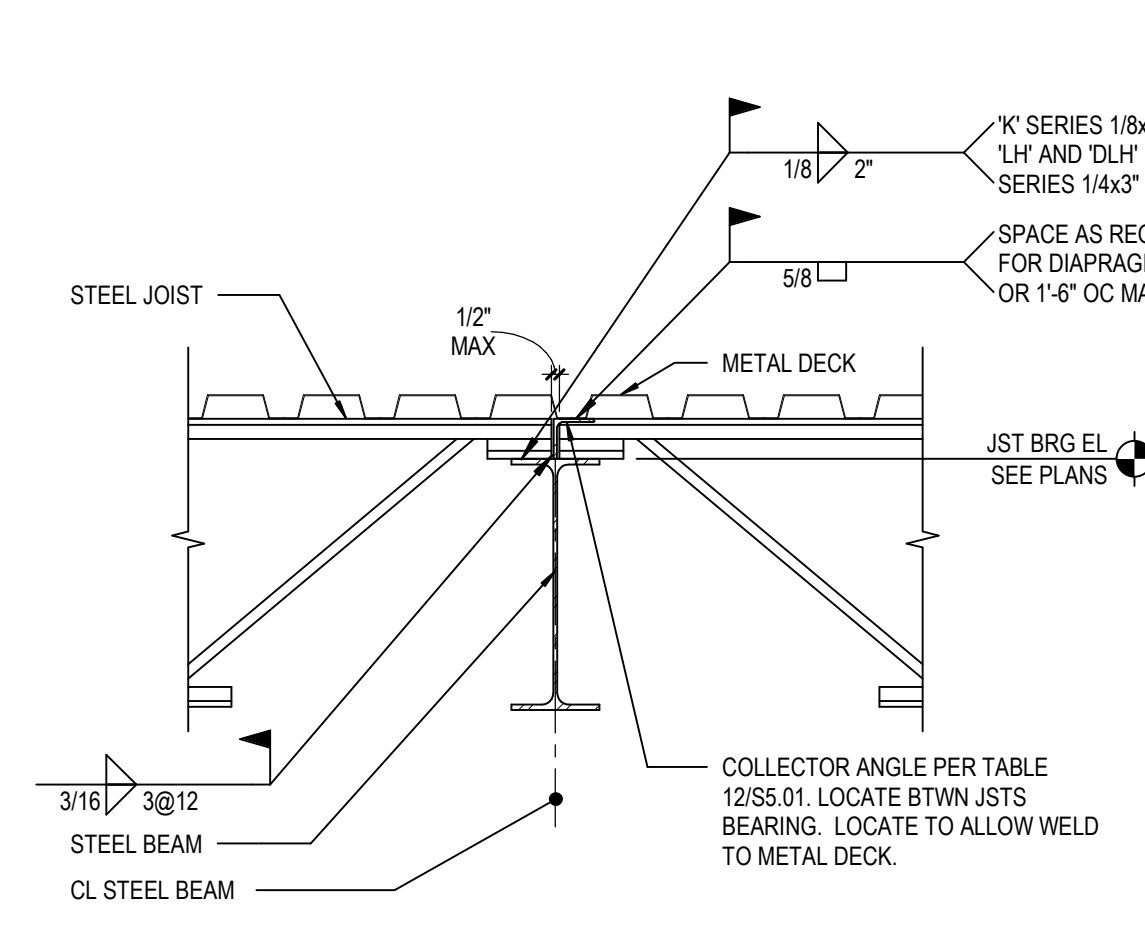
12 COLLECTOR ANGLE TABLE

SCALE: 1" = 1'-0"



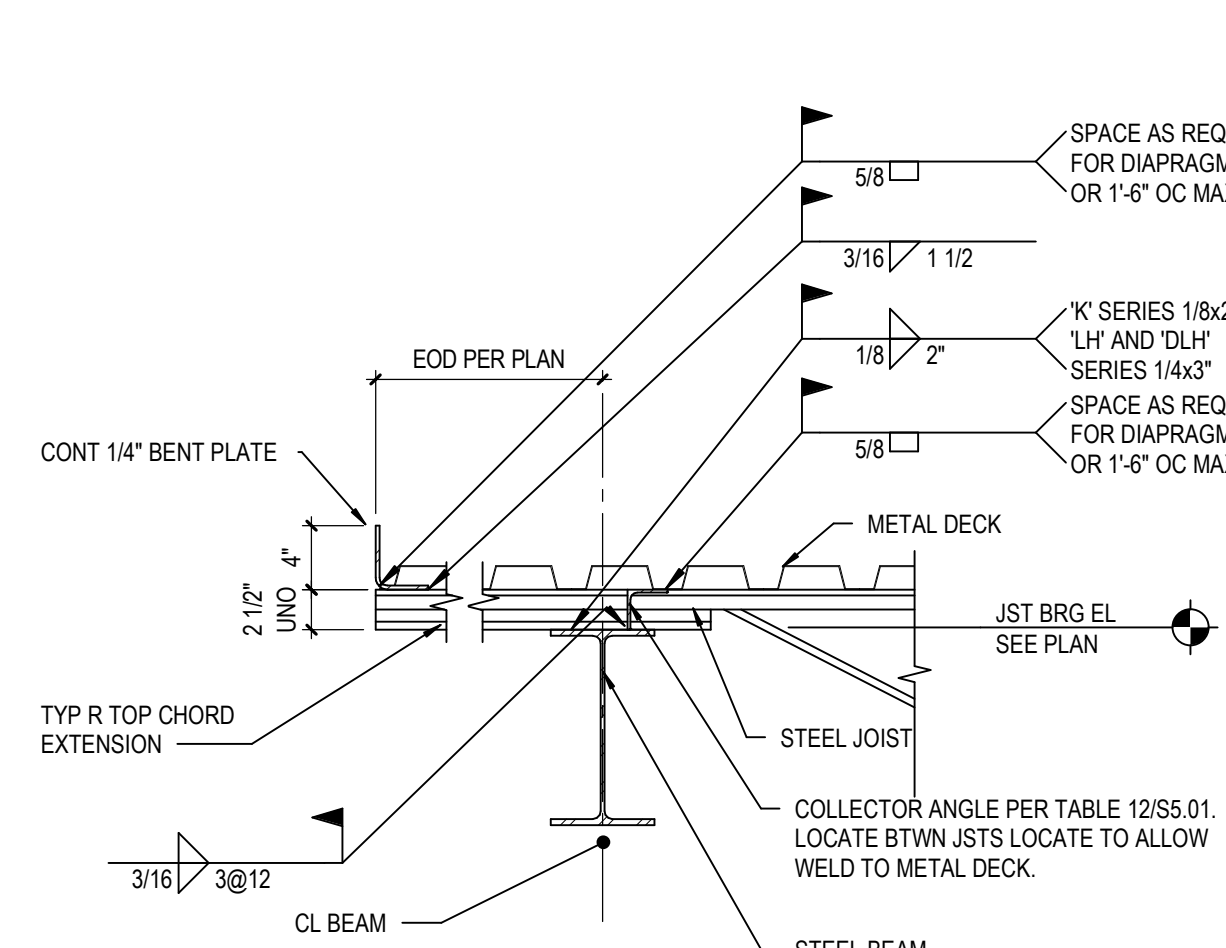
13 TYP JOIST BEARING DETAIL

SCALE: 1" = 1'-0"



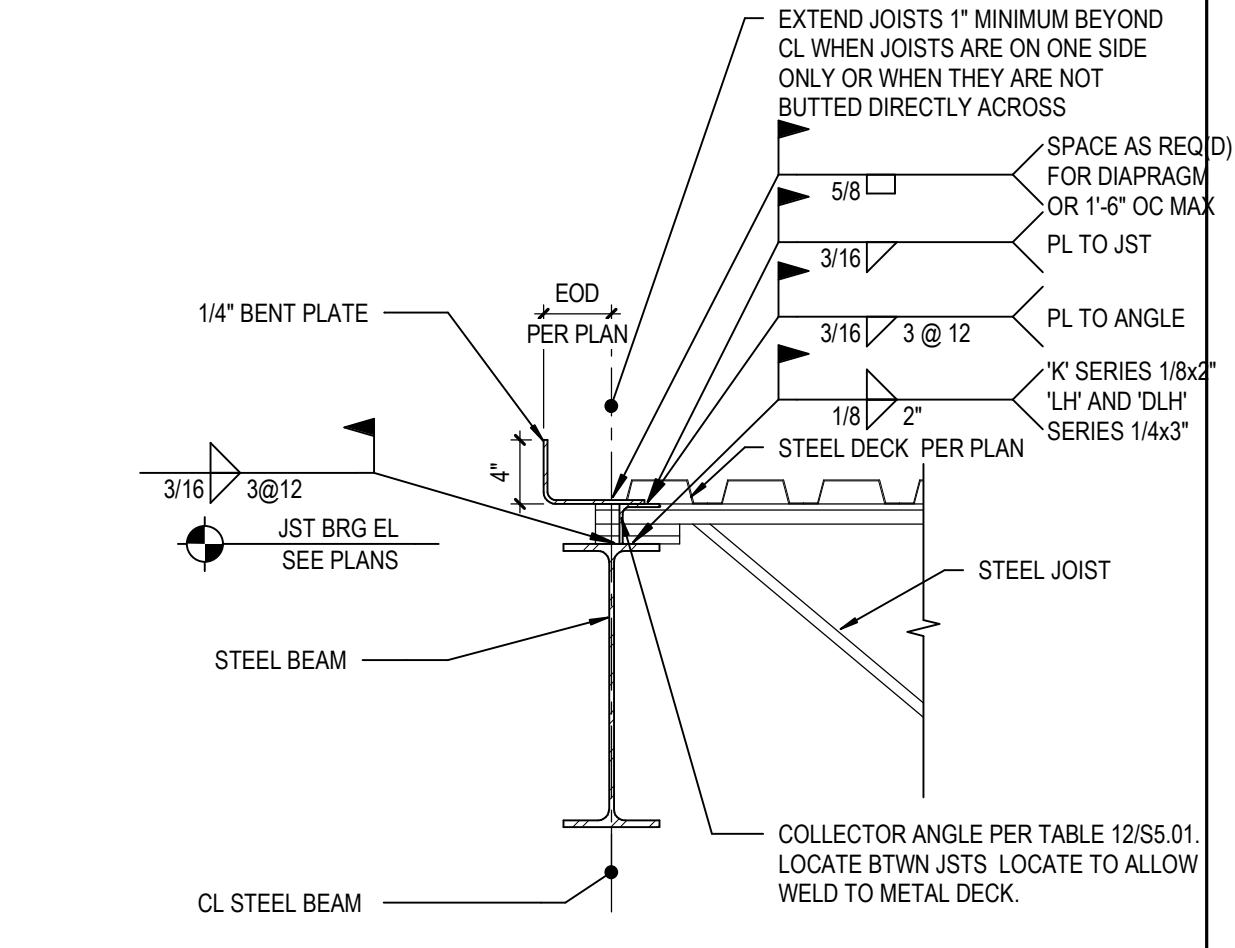
14 TYP JOIST BEARING DETAIL

SCALE: 1" = 1'-0"



15 TYP EXTENDED END JST BEARING DETAIL

SCALE: 1" = 1'-0"



16 TYP JOIST BEARING DETAIL

SCALE: 1" = 1'-0"

11 TYP EDGE OF DECK DETAIL

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

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12 COLLECTOR ANGLE TABLE

SCALE: 1" = 1'-0"

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13 TYP JOIST BEARING DETAIL

SCALE: 1" = 1'-0"

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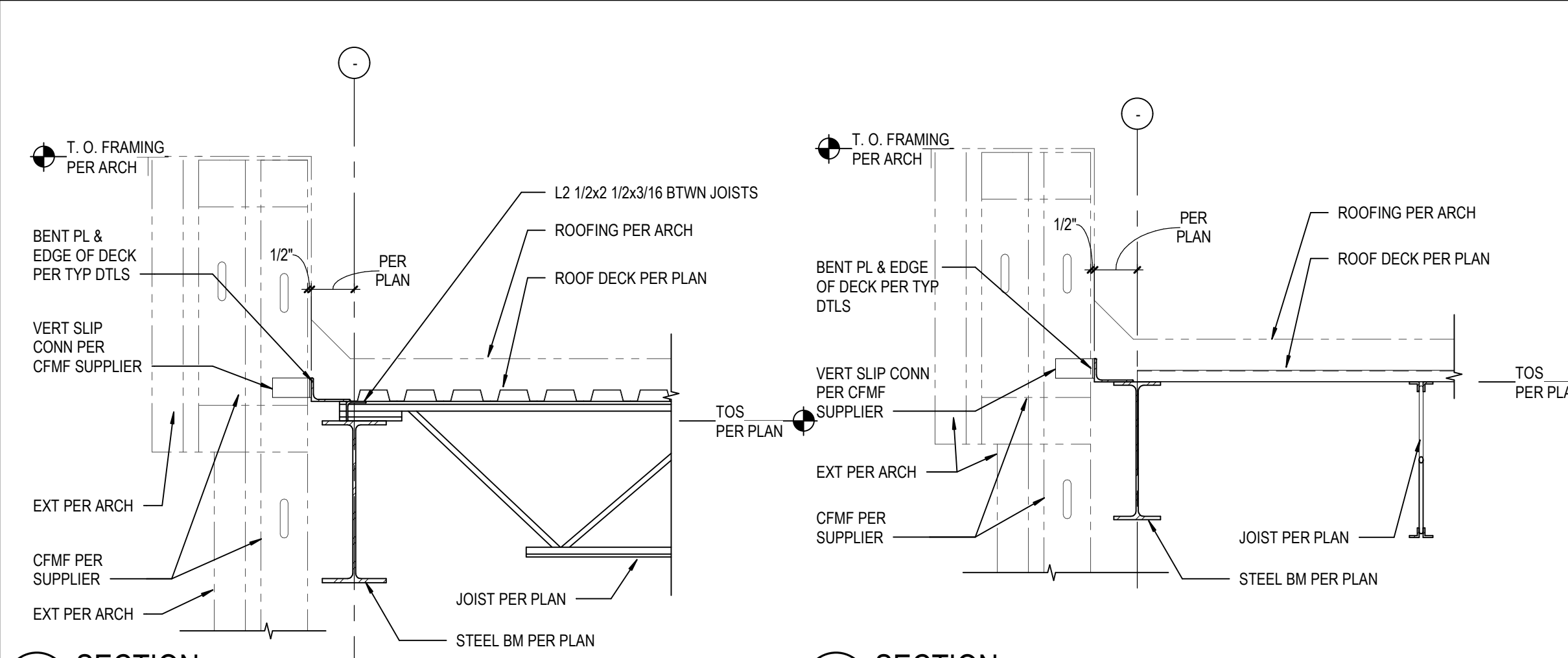
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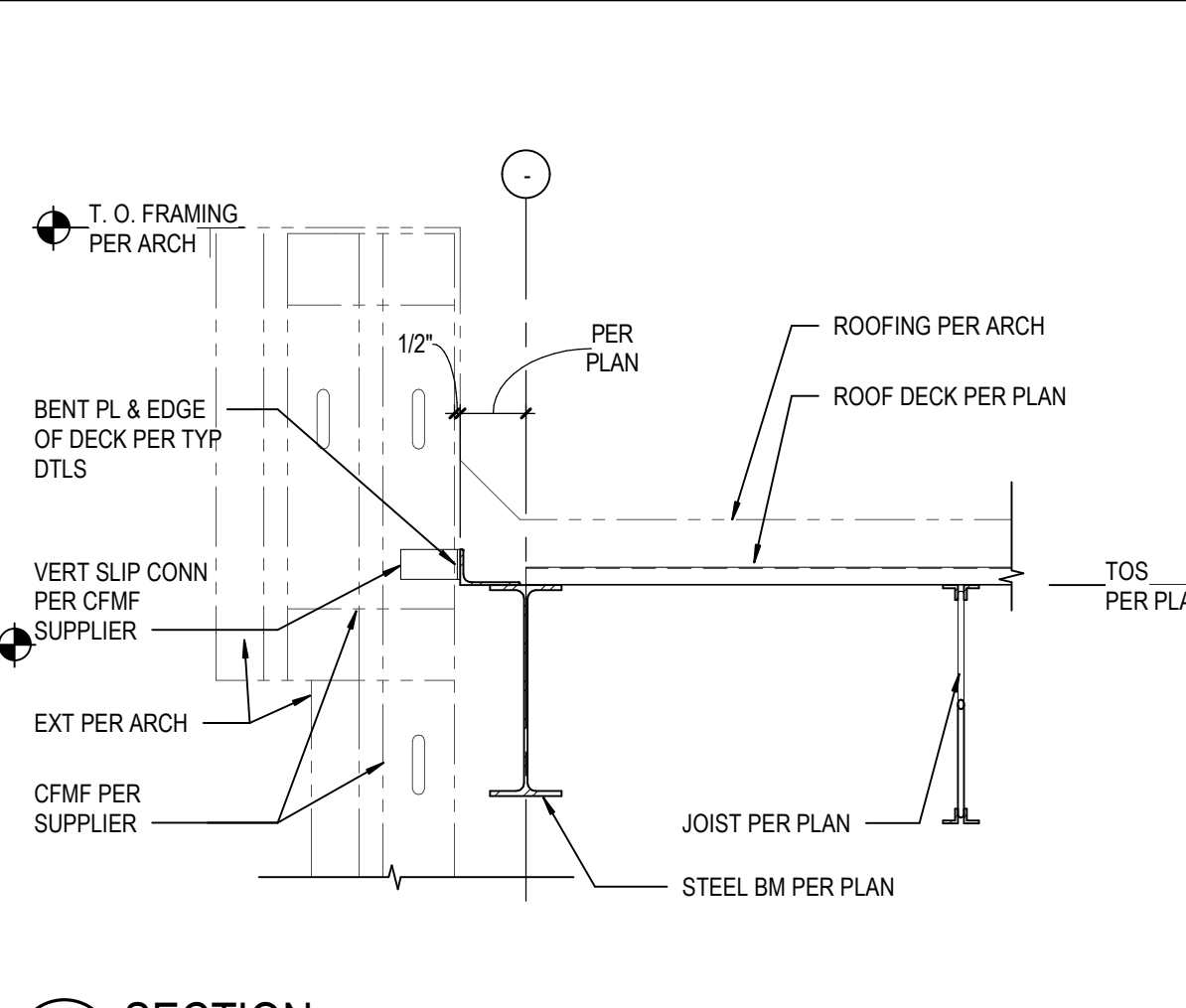
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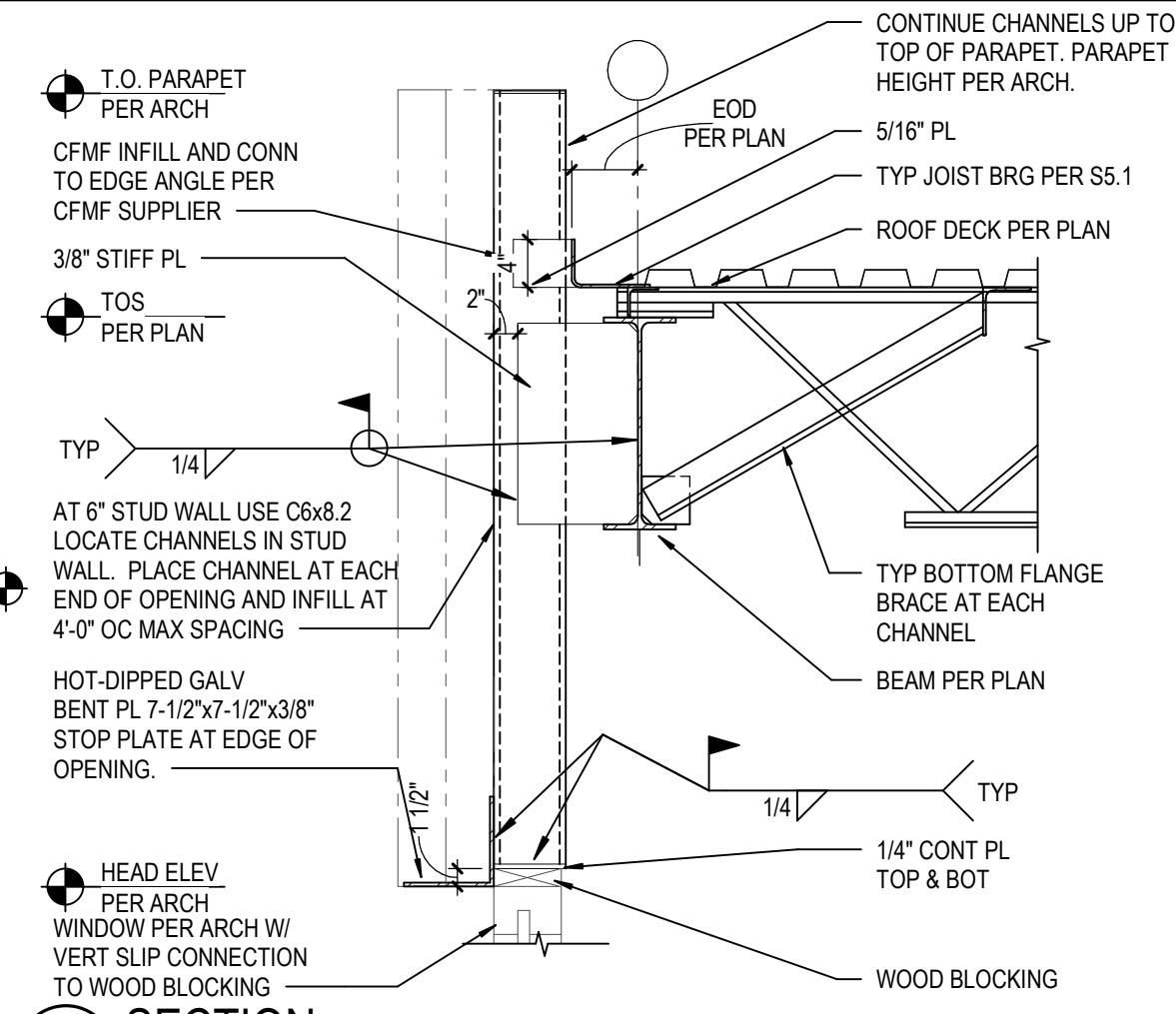
BM 320/13-20102-00 Lee's Summit Middle School 4/13/20102-00 Lee's Summit Middle School - S1\_2020.rvt  
10/19/2020 11:15:03 AM



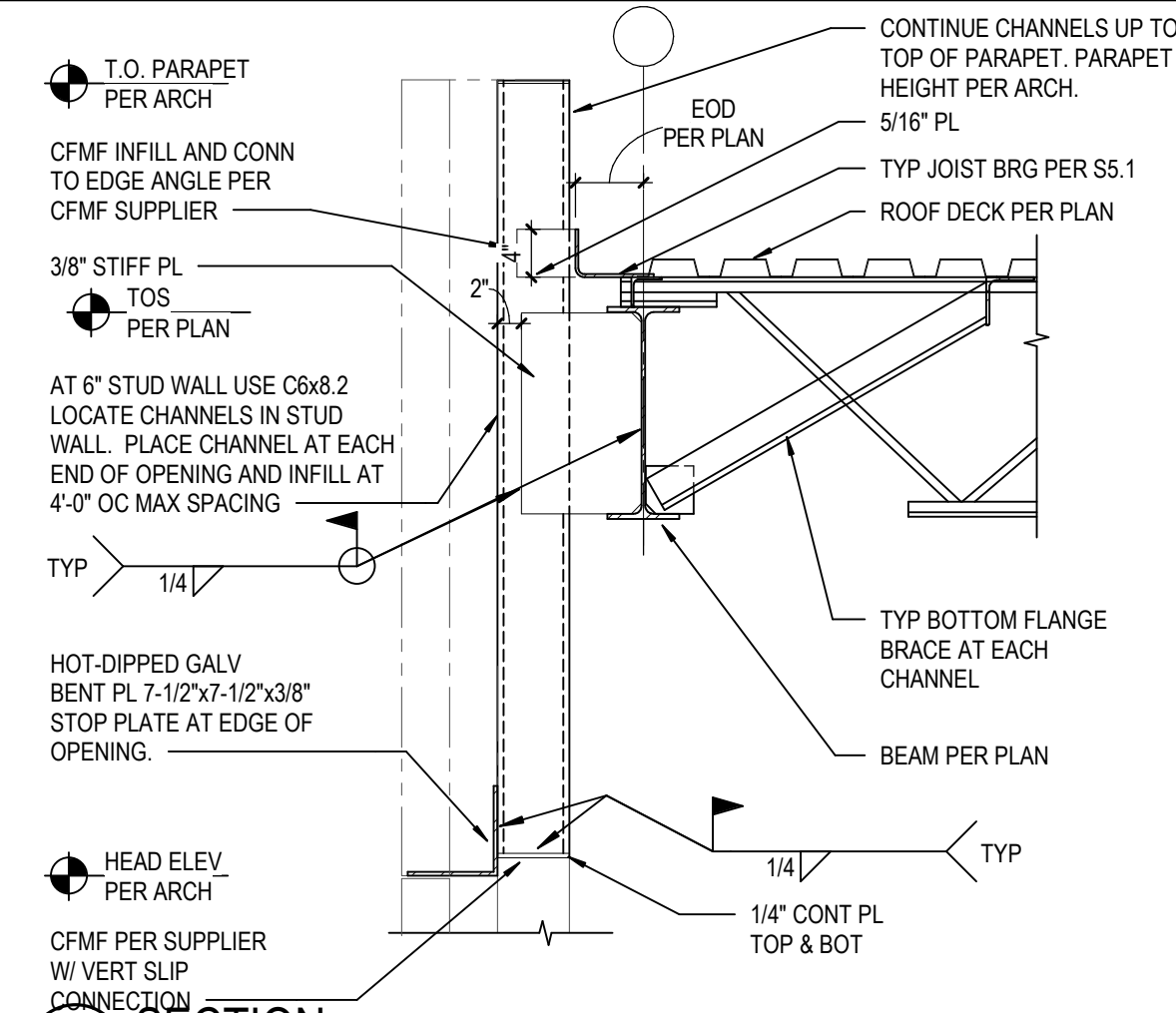
11 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



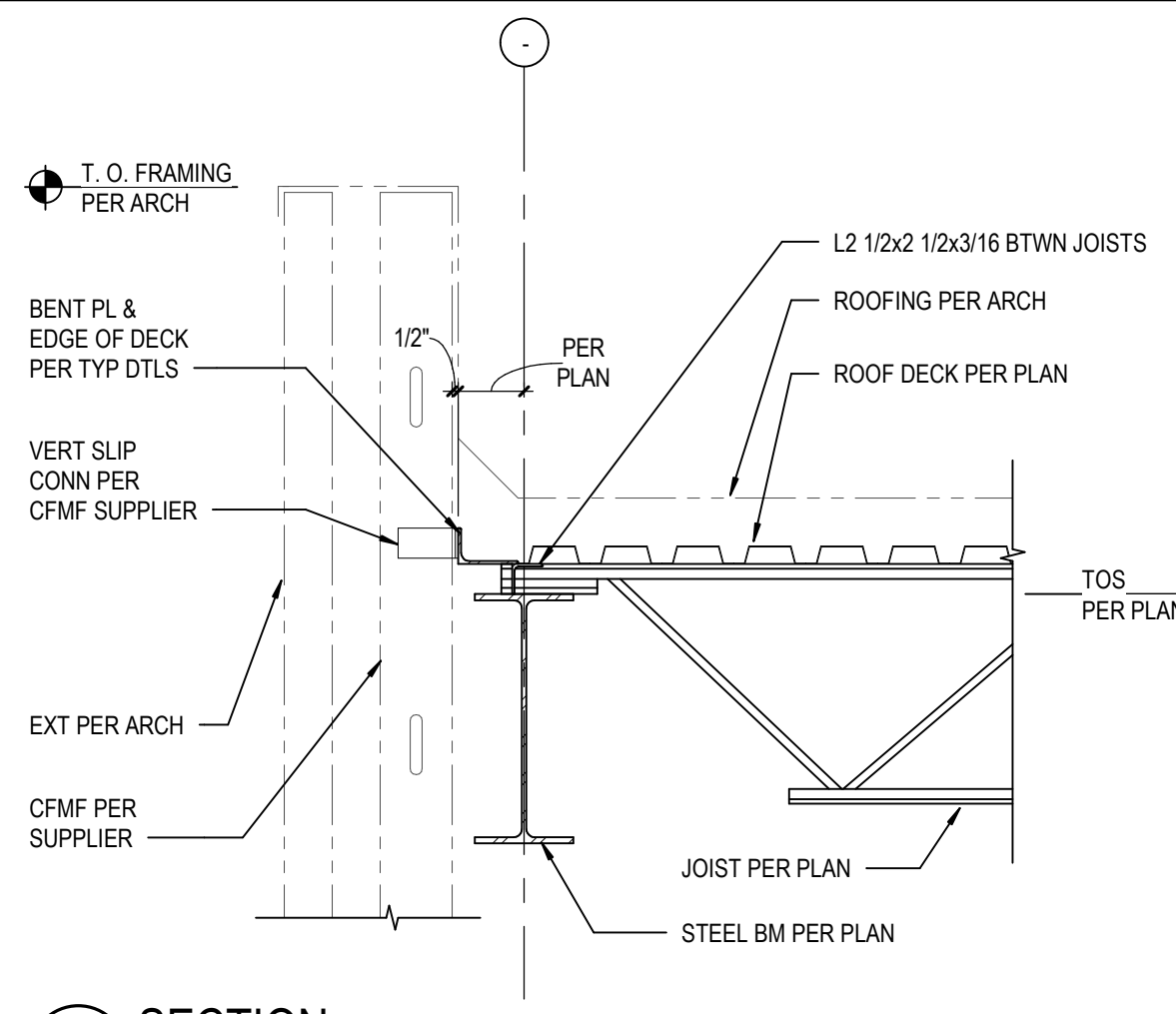
12 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



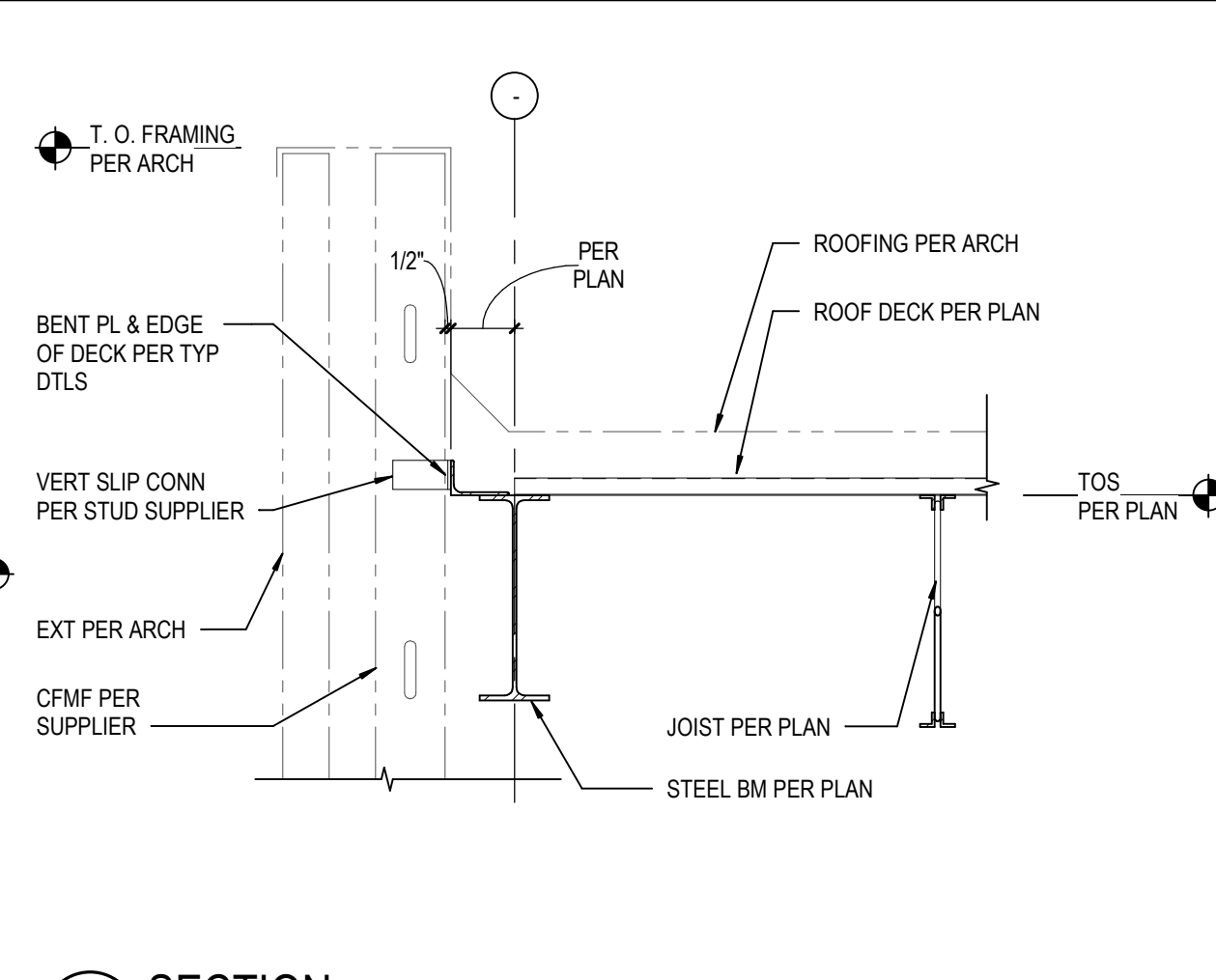
13 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



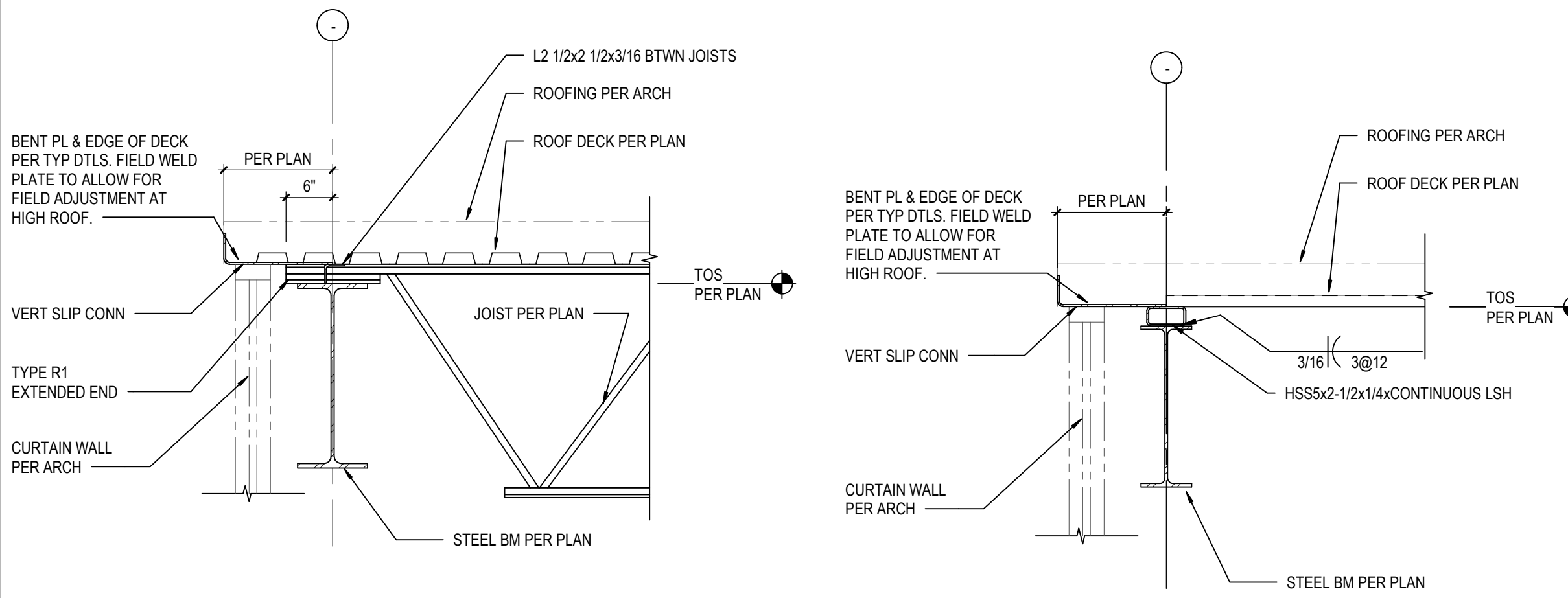
14 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



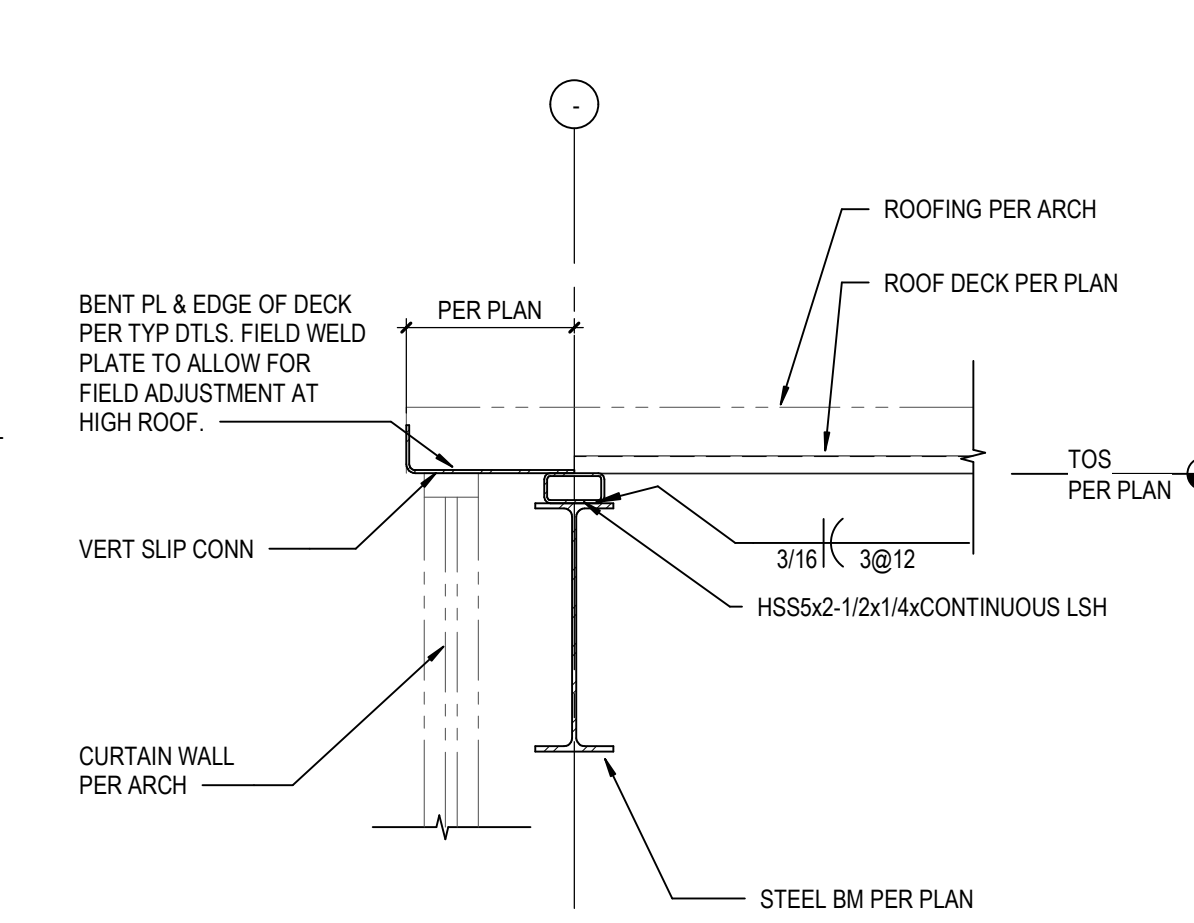
15 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



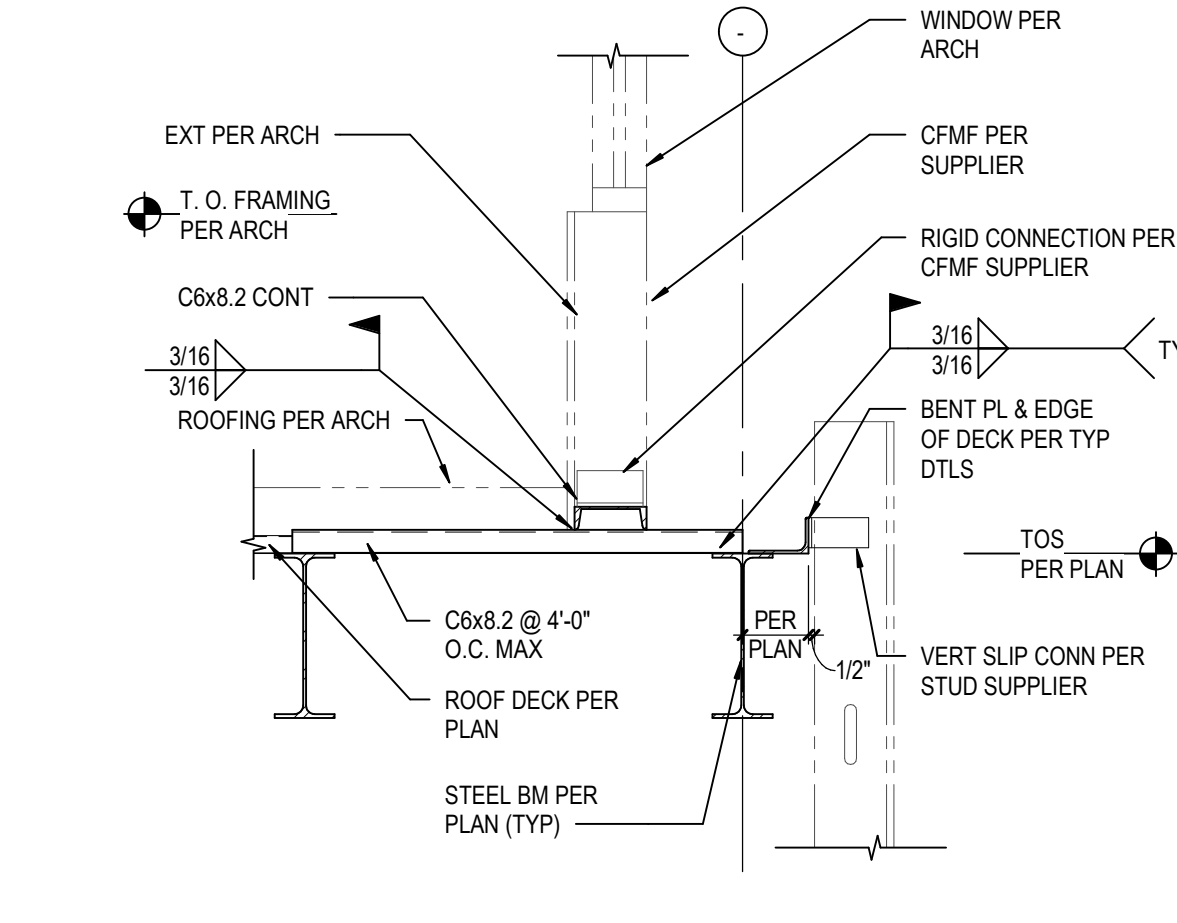
16 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



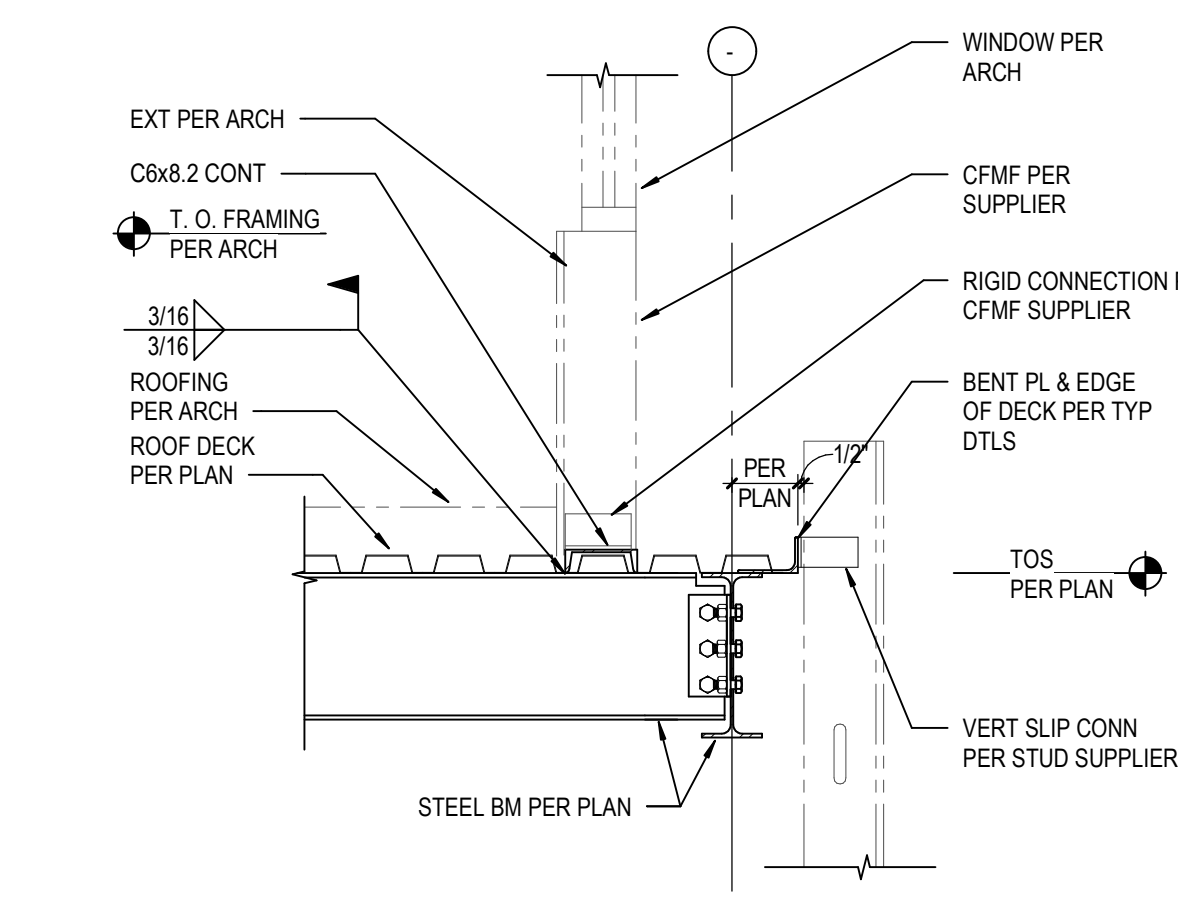
21 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



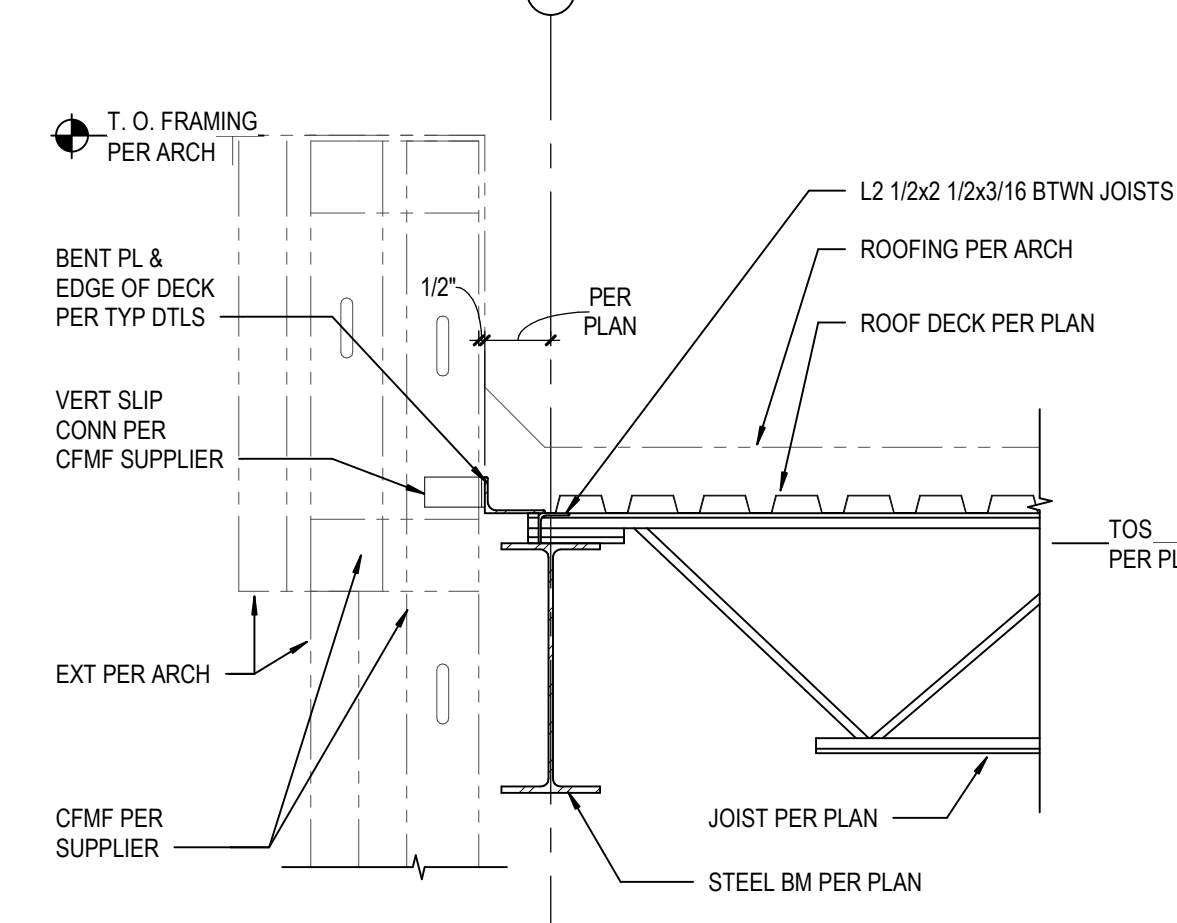
22 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



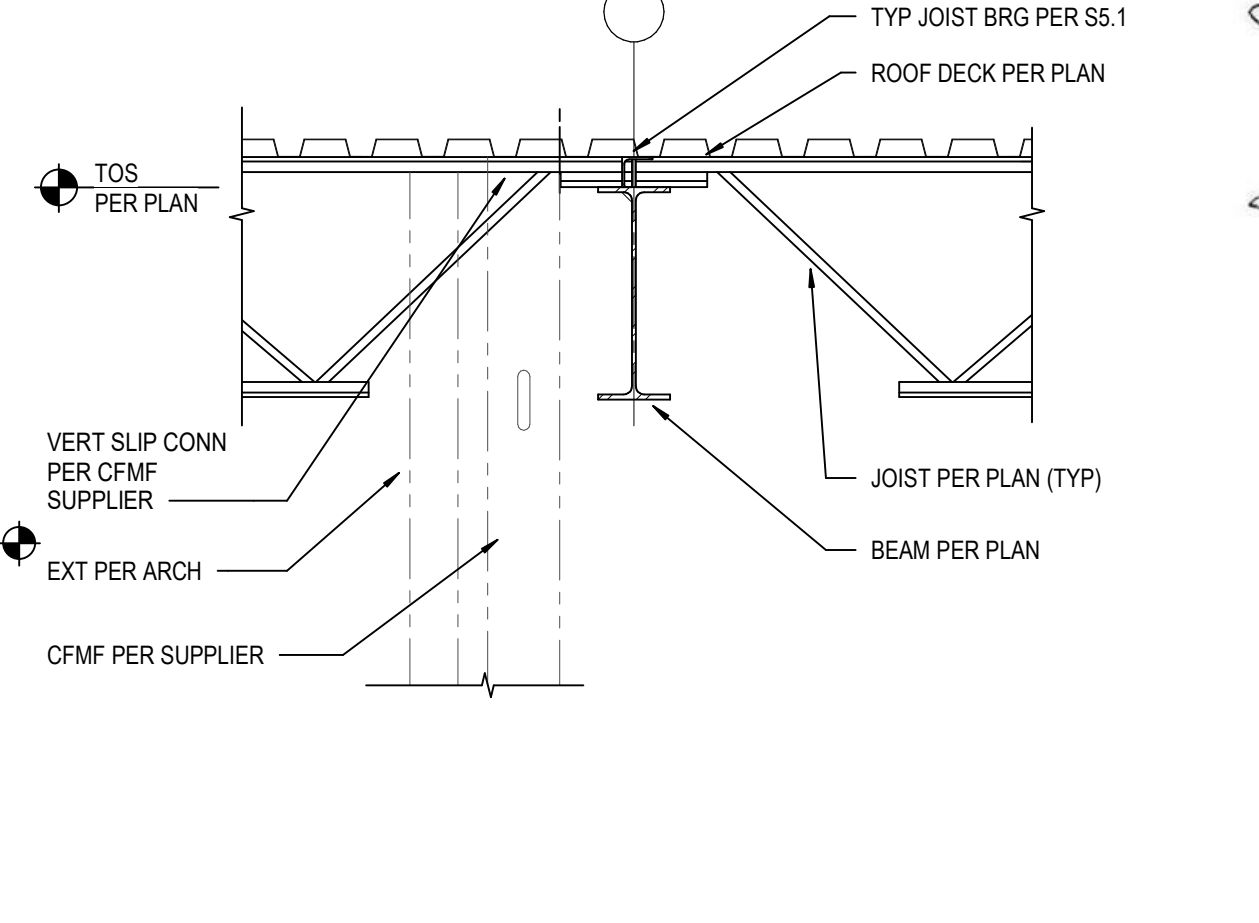
23 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



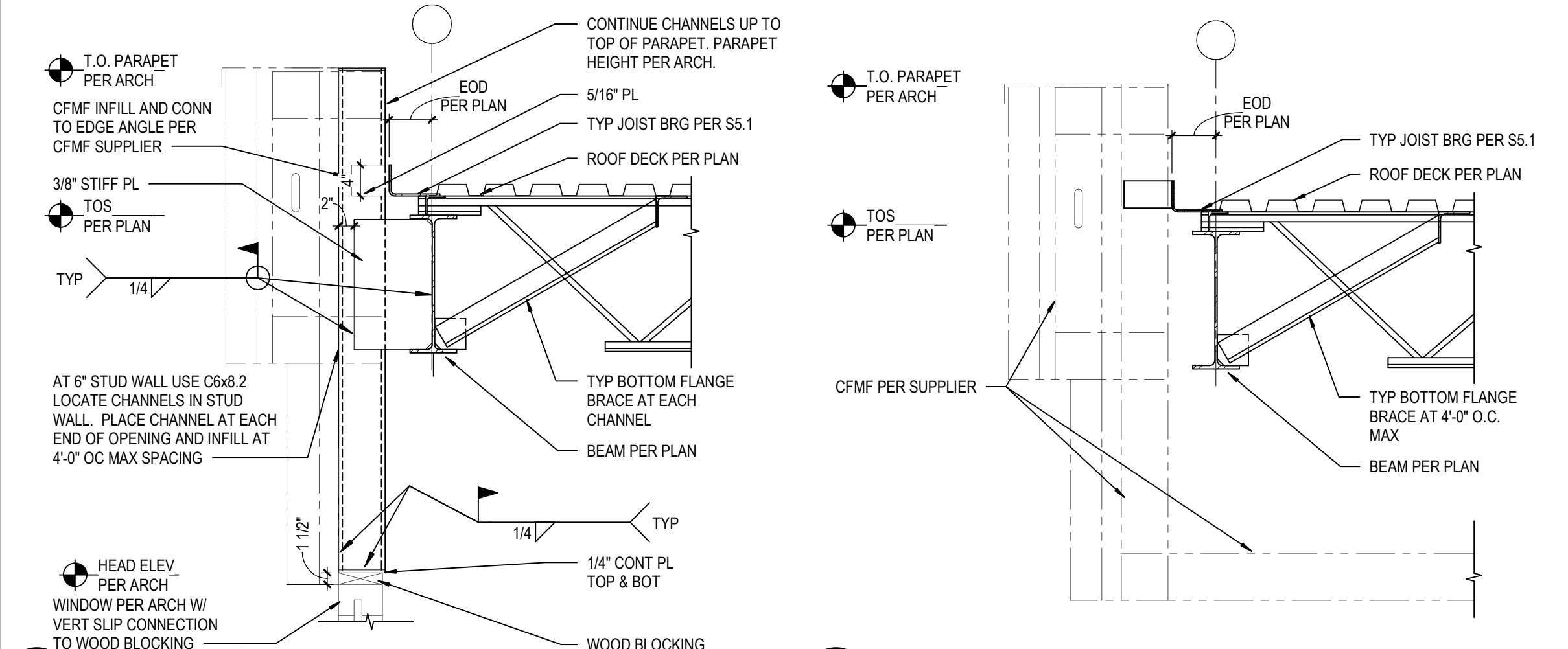
24 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



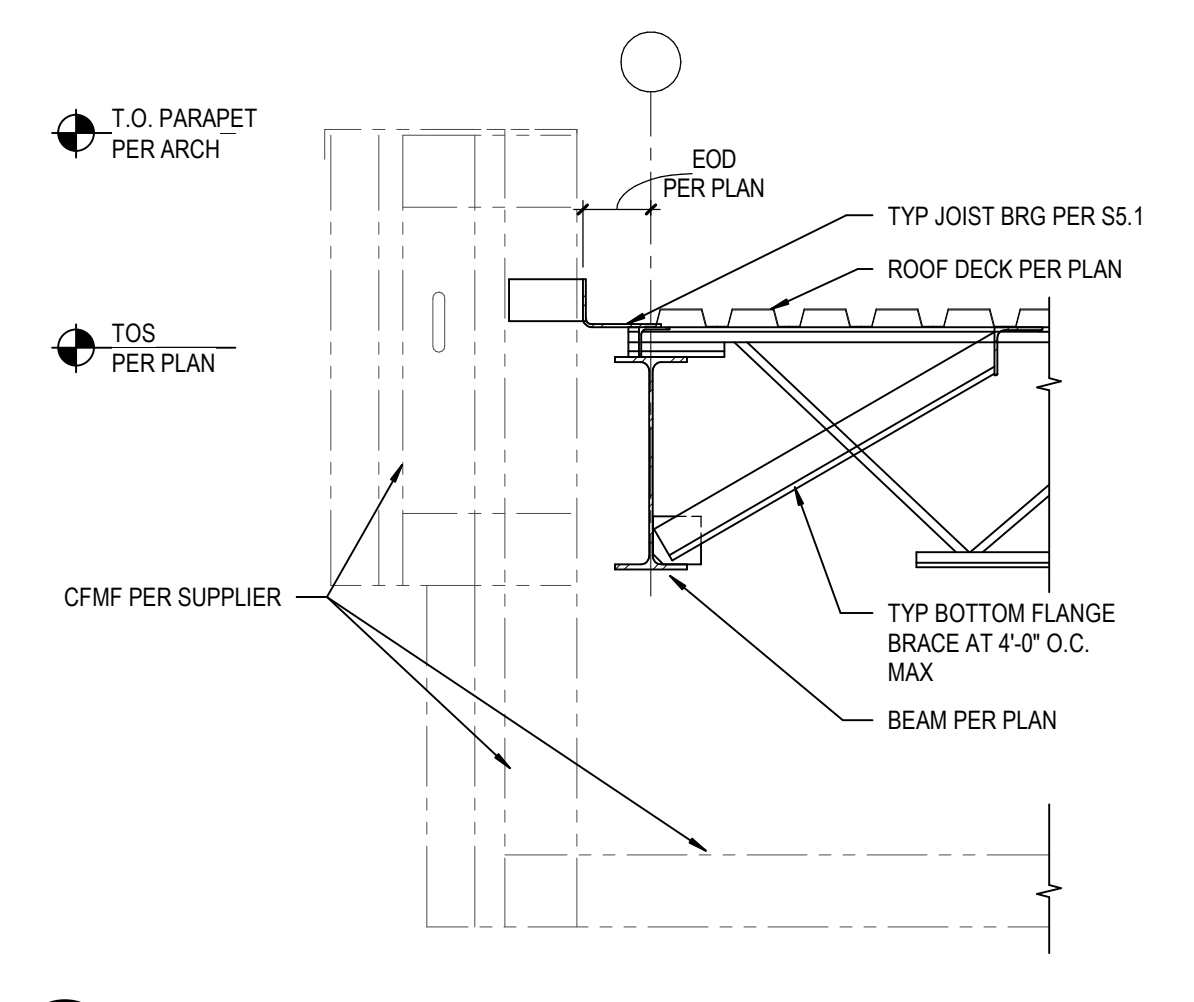
25 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



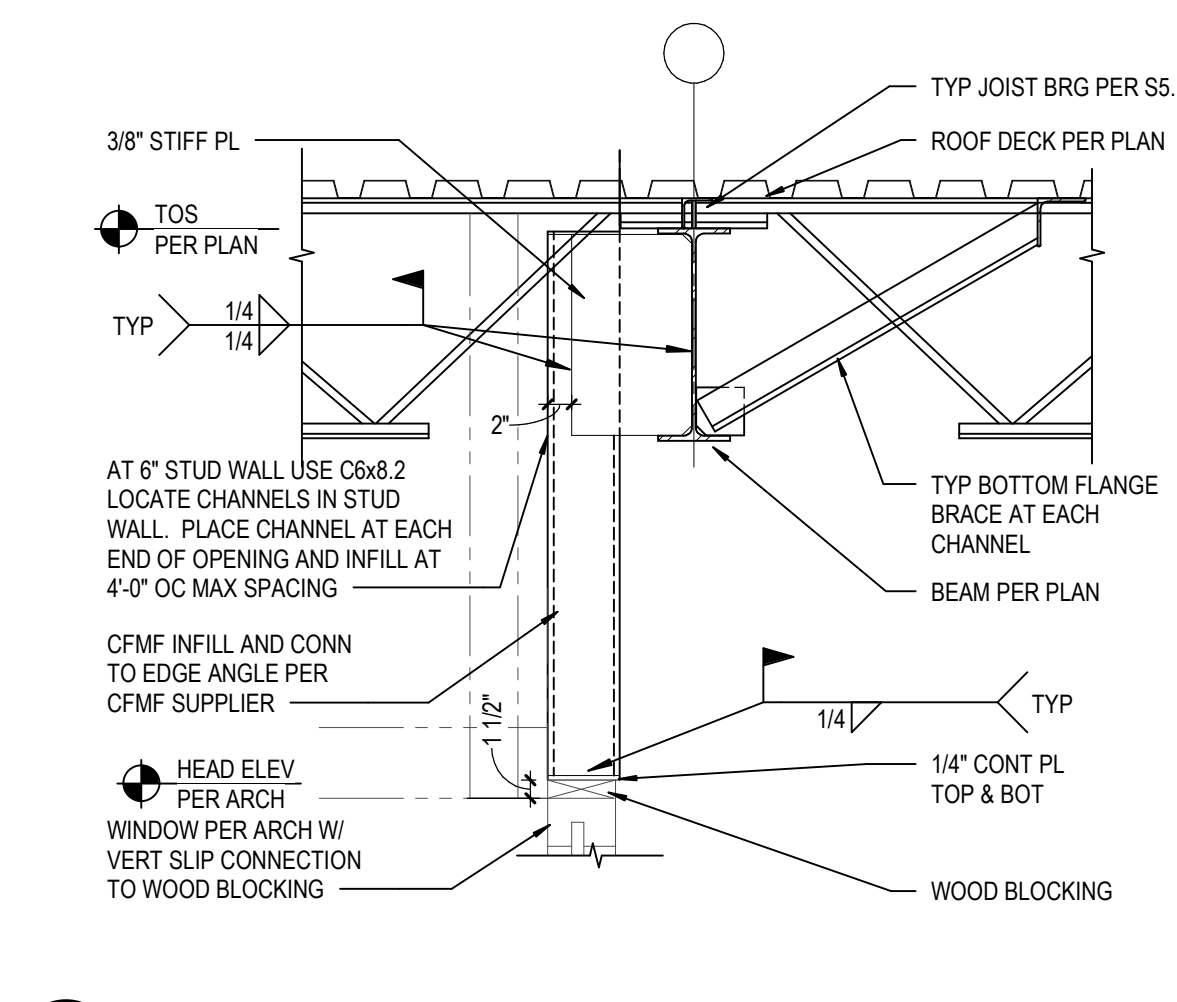
26 SECTION  
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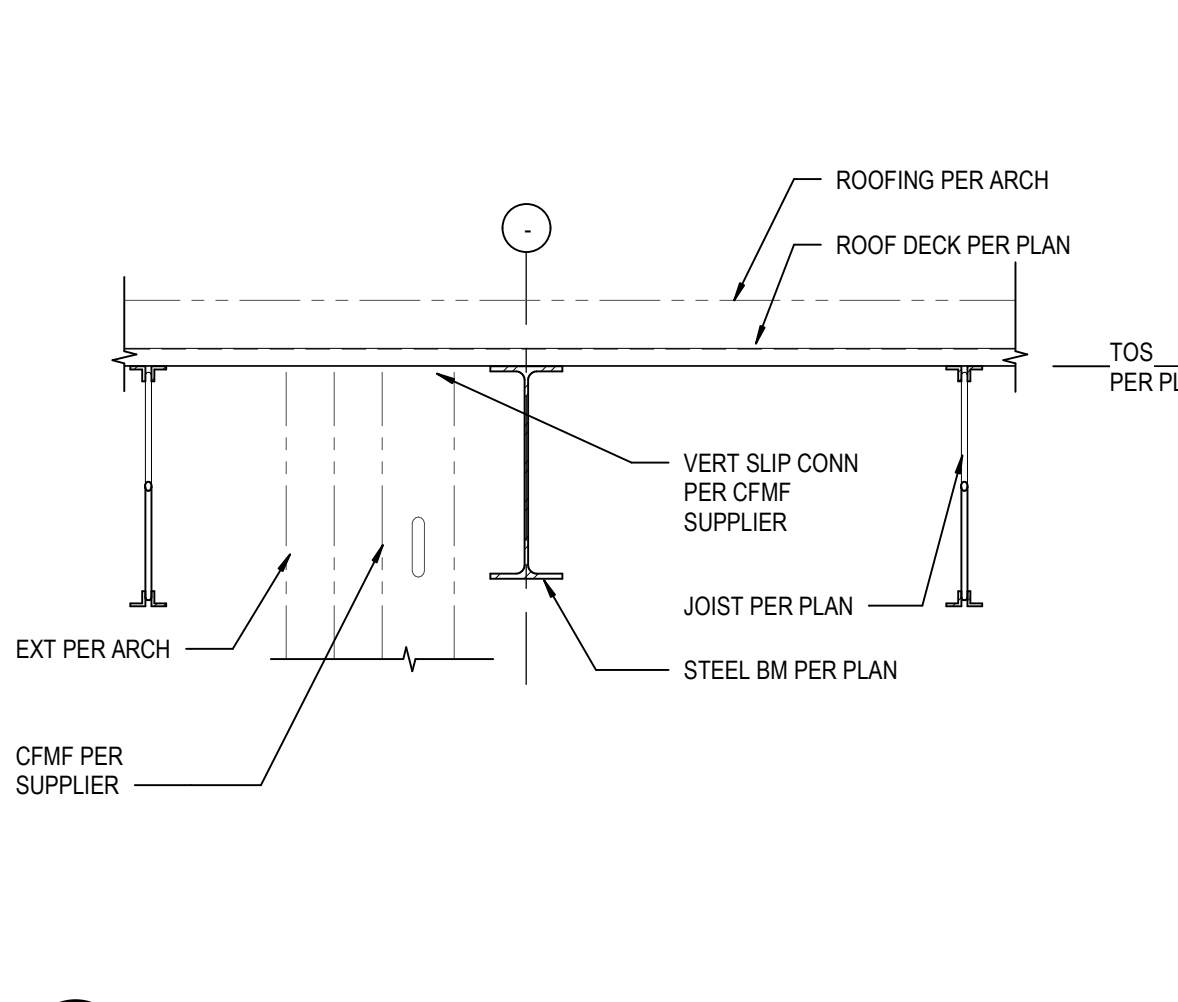
31 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



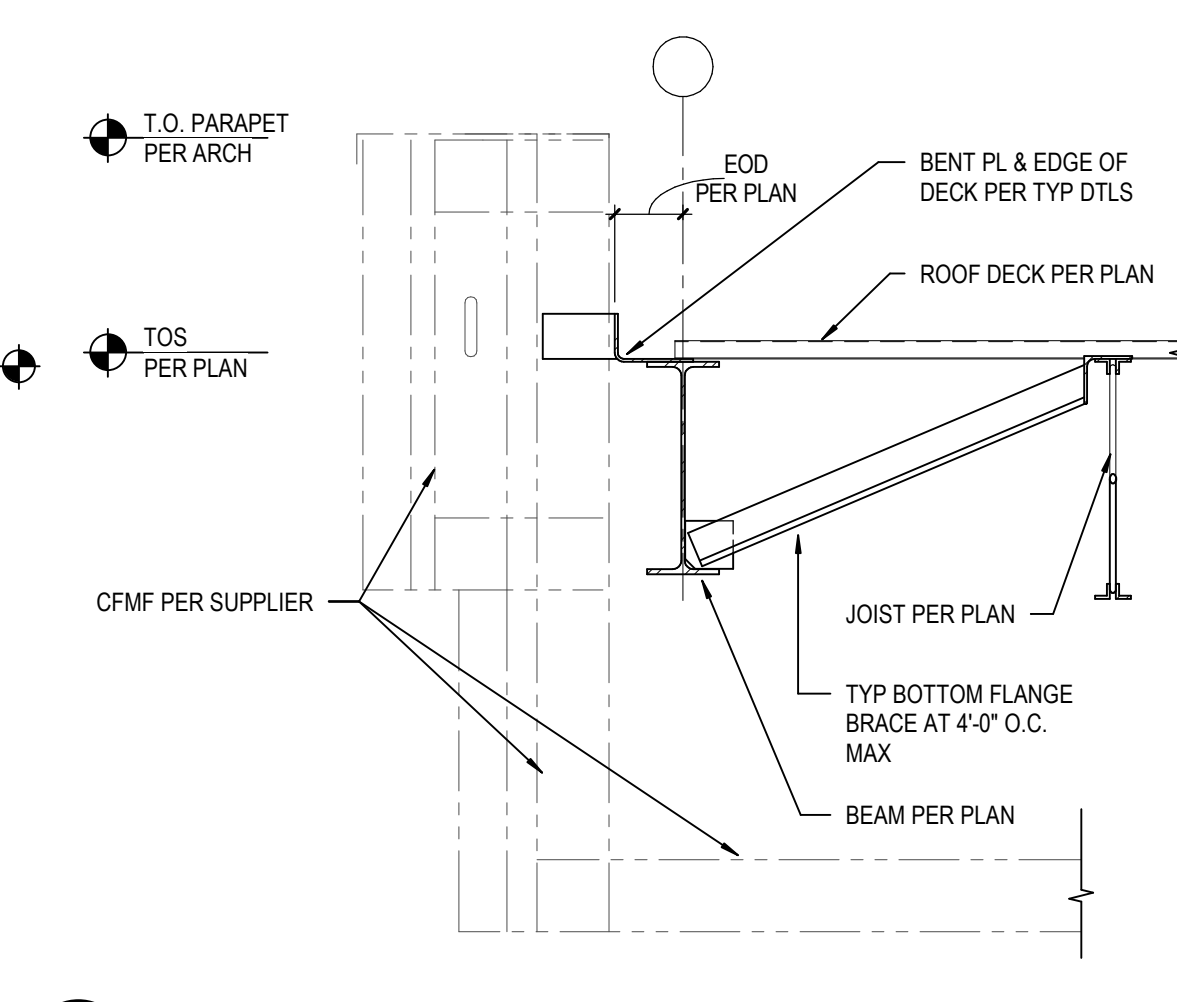
32 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



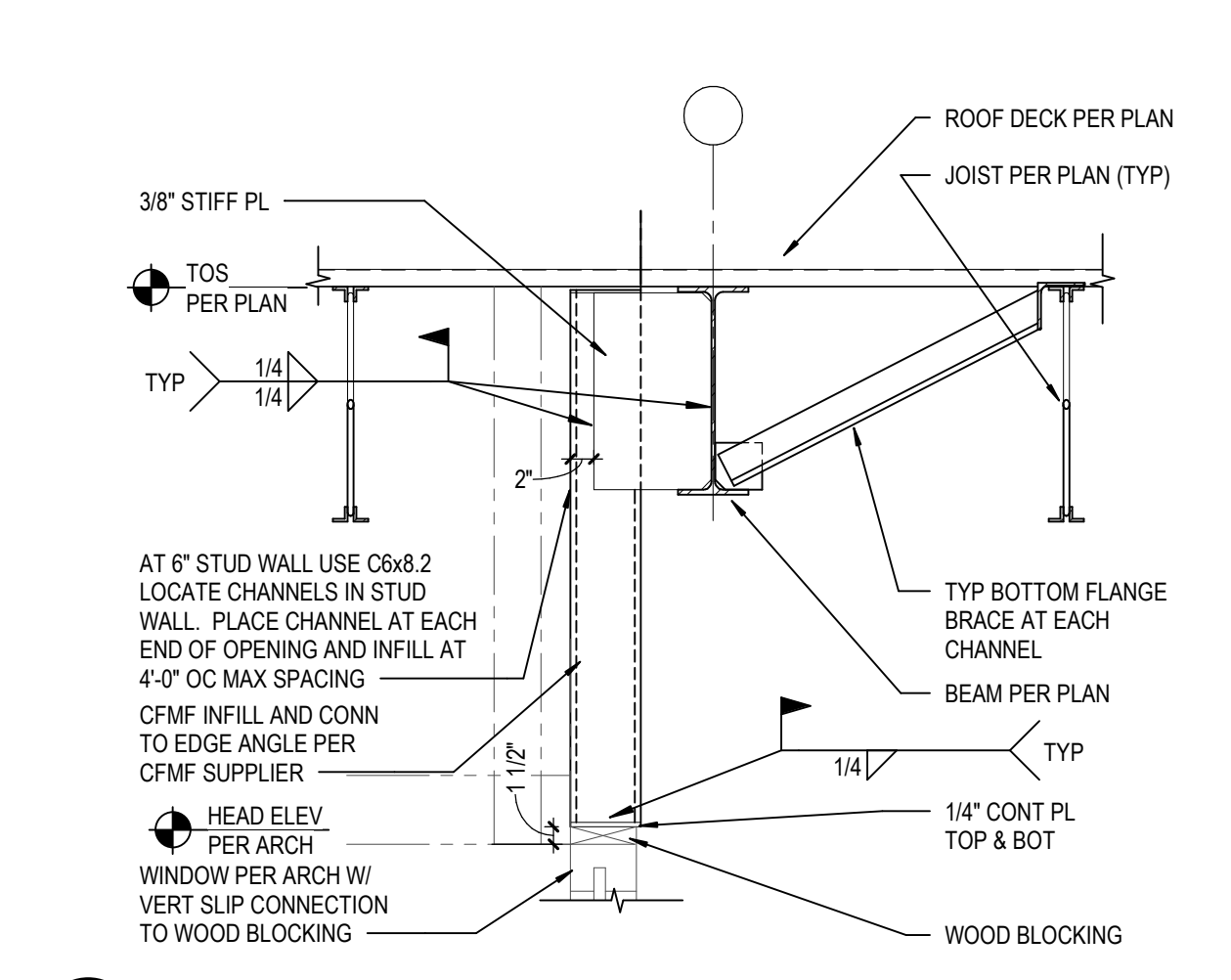
33 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



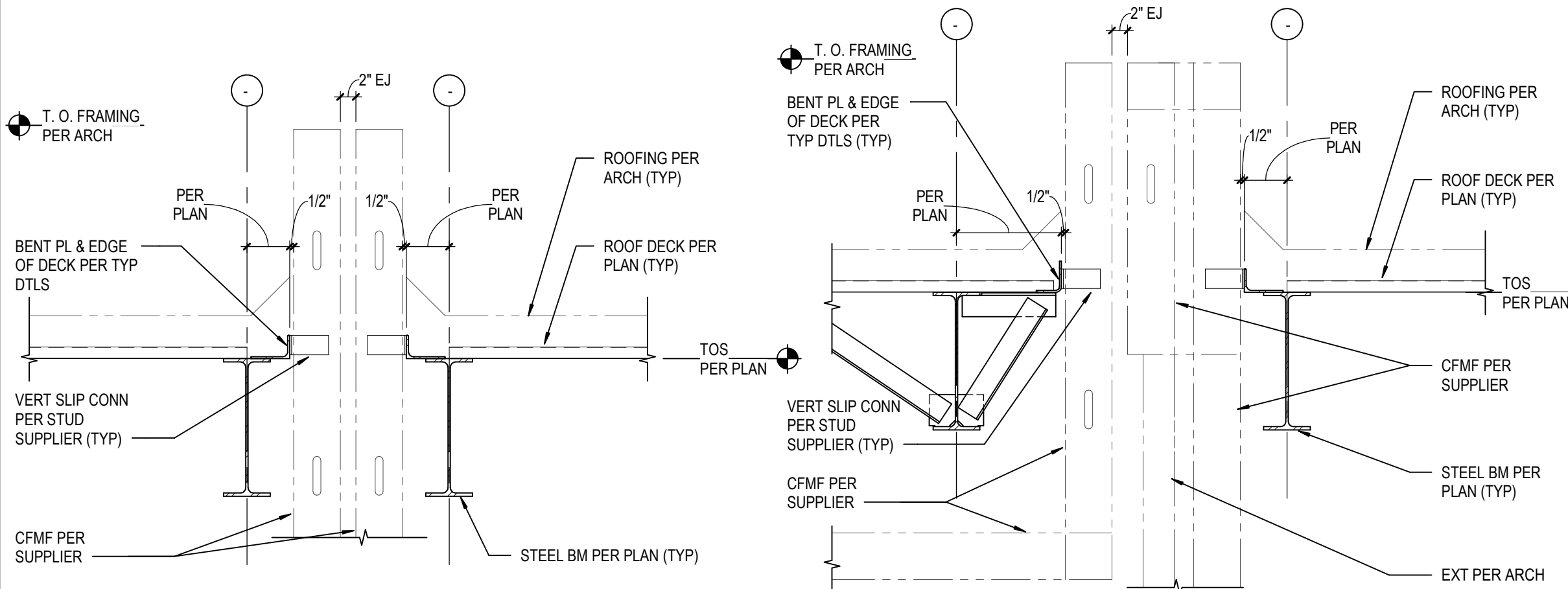
34 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



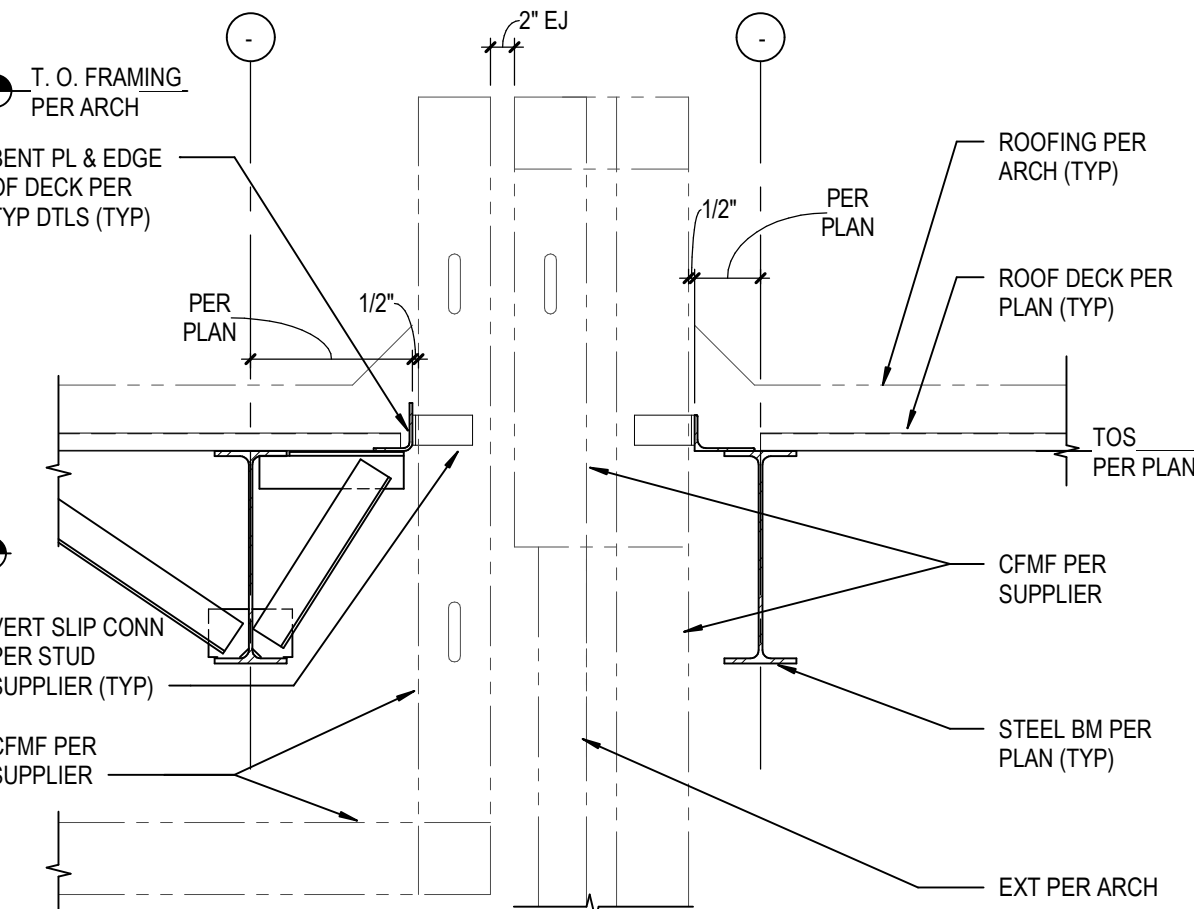
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S5.5 SCALE: 3/4" = 1'-0"



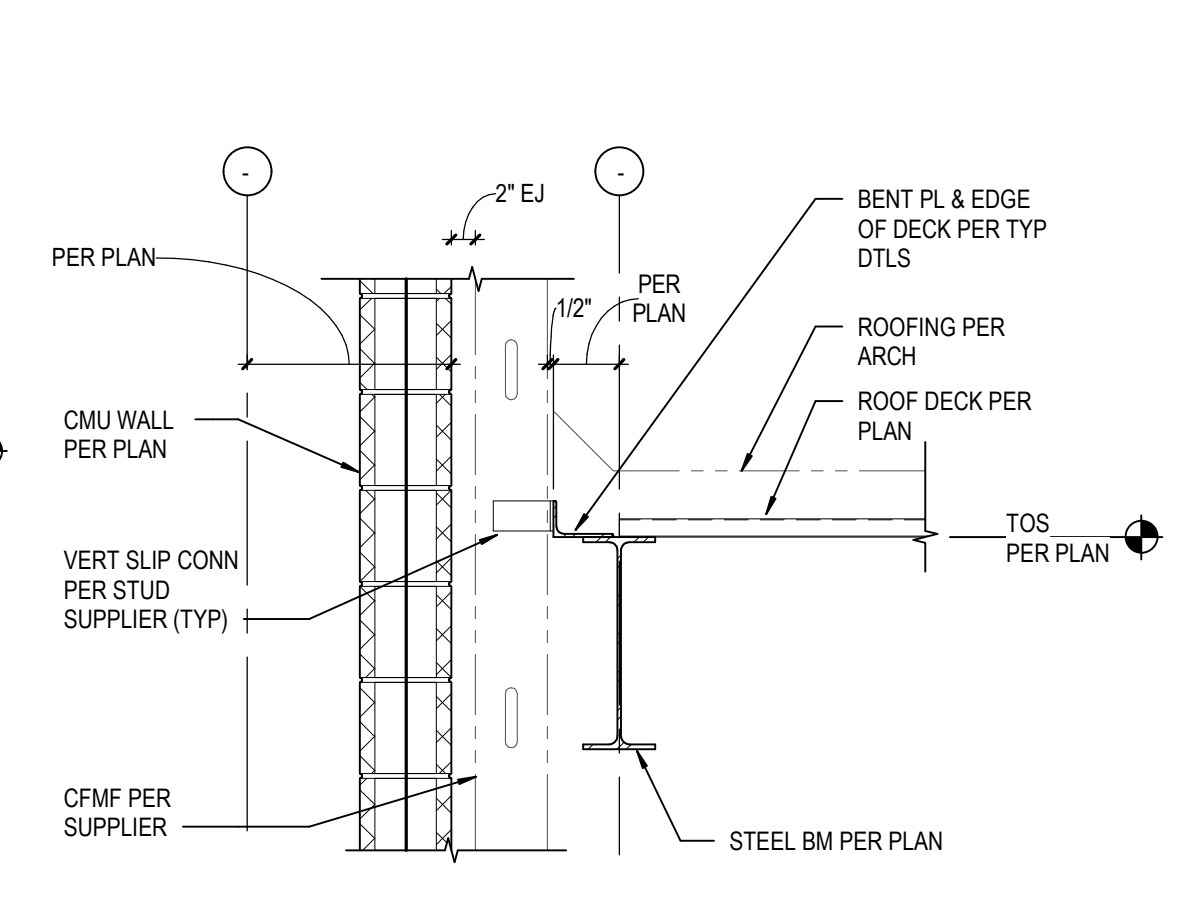
36 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



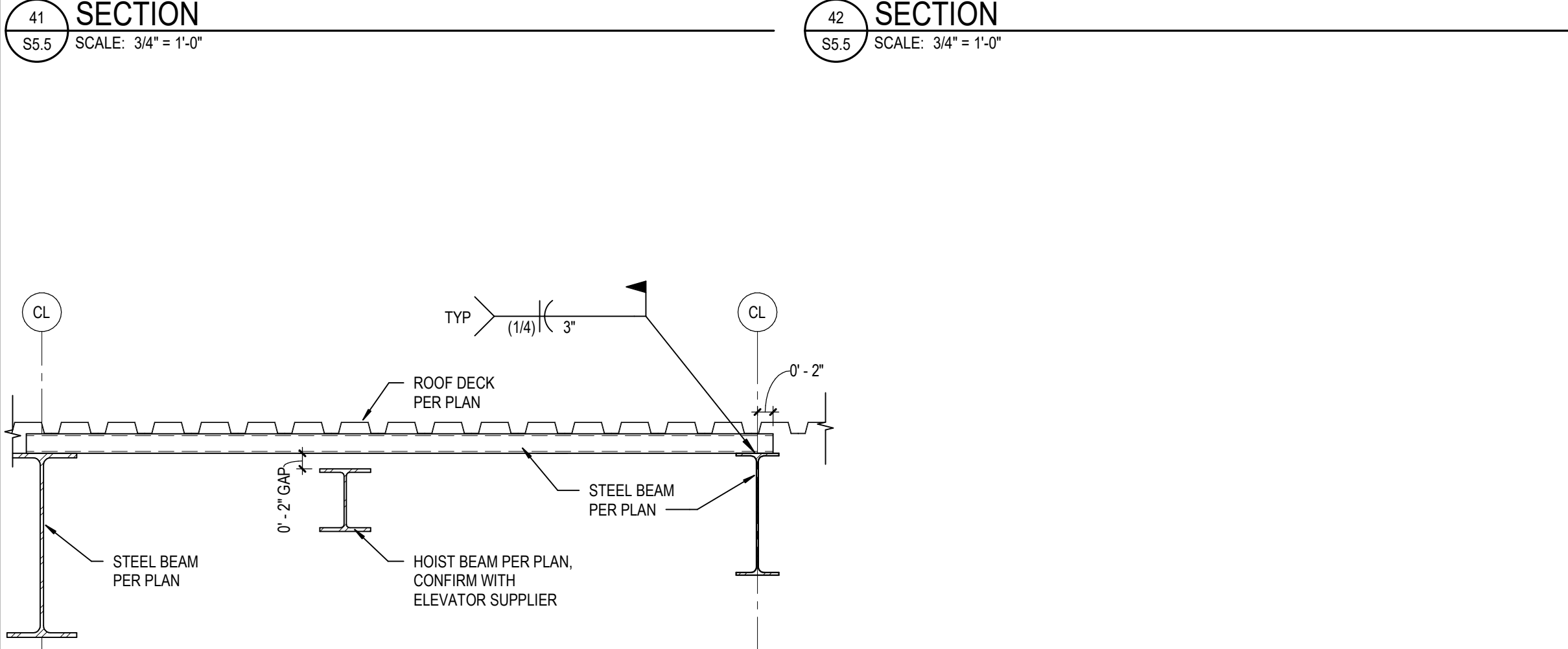
41 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



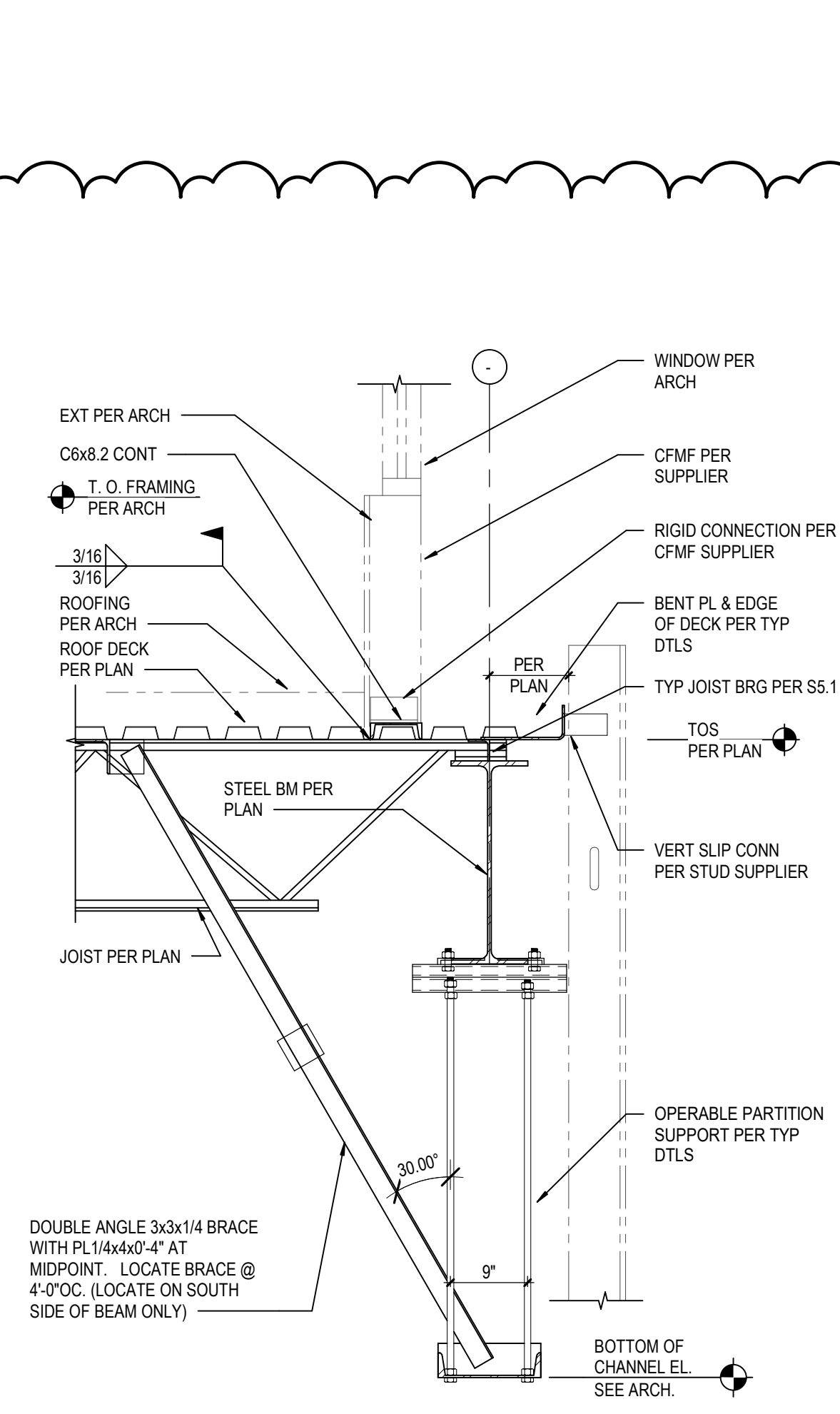
42 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



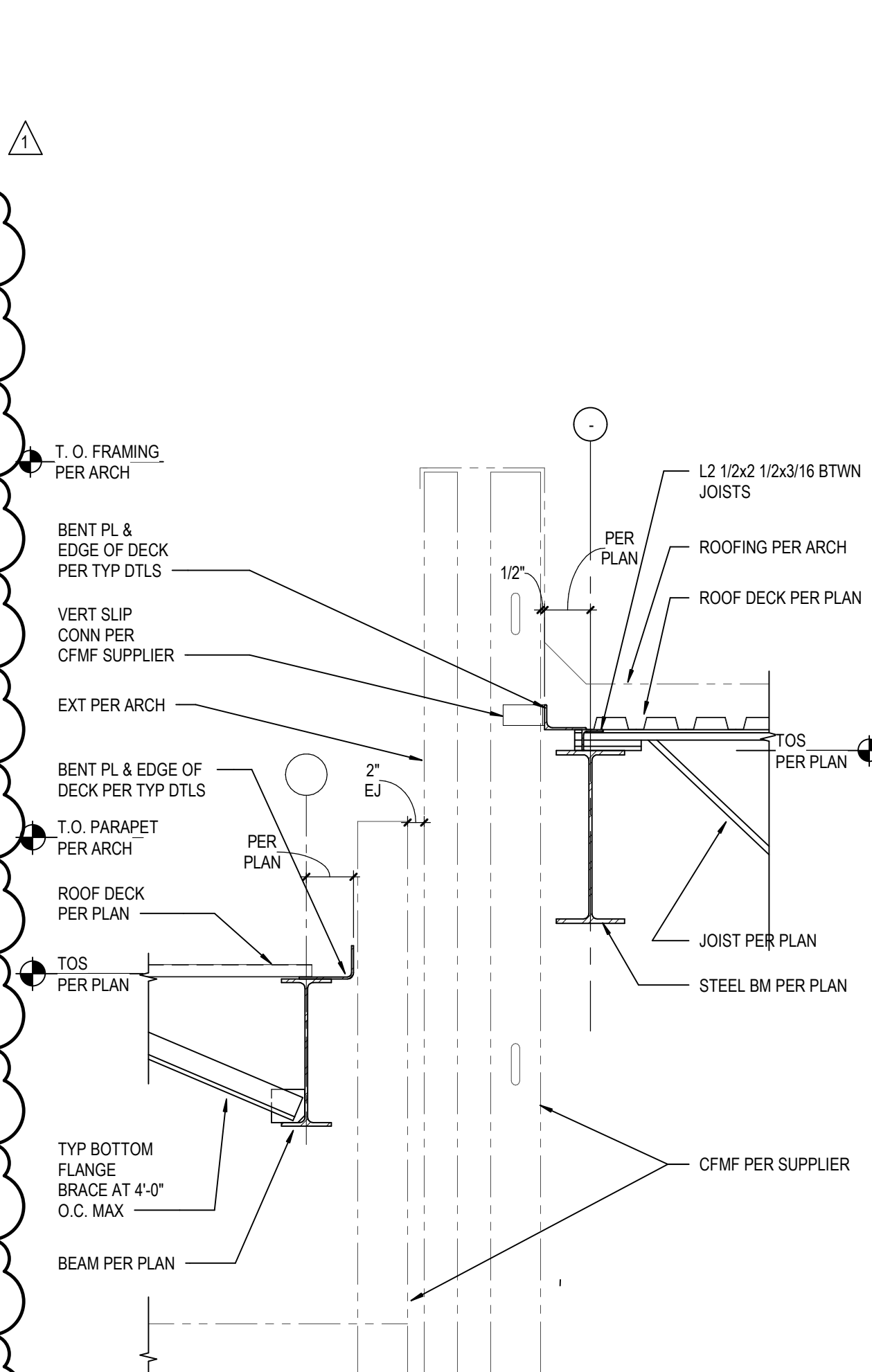
43 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



44 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



55 SECTION  
S5.5 SCALE: 3/4" = 1'-0"

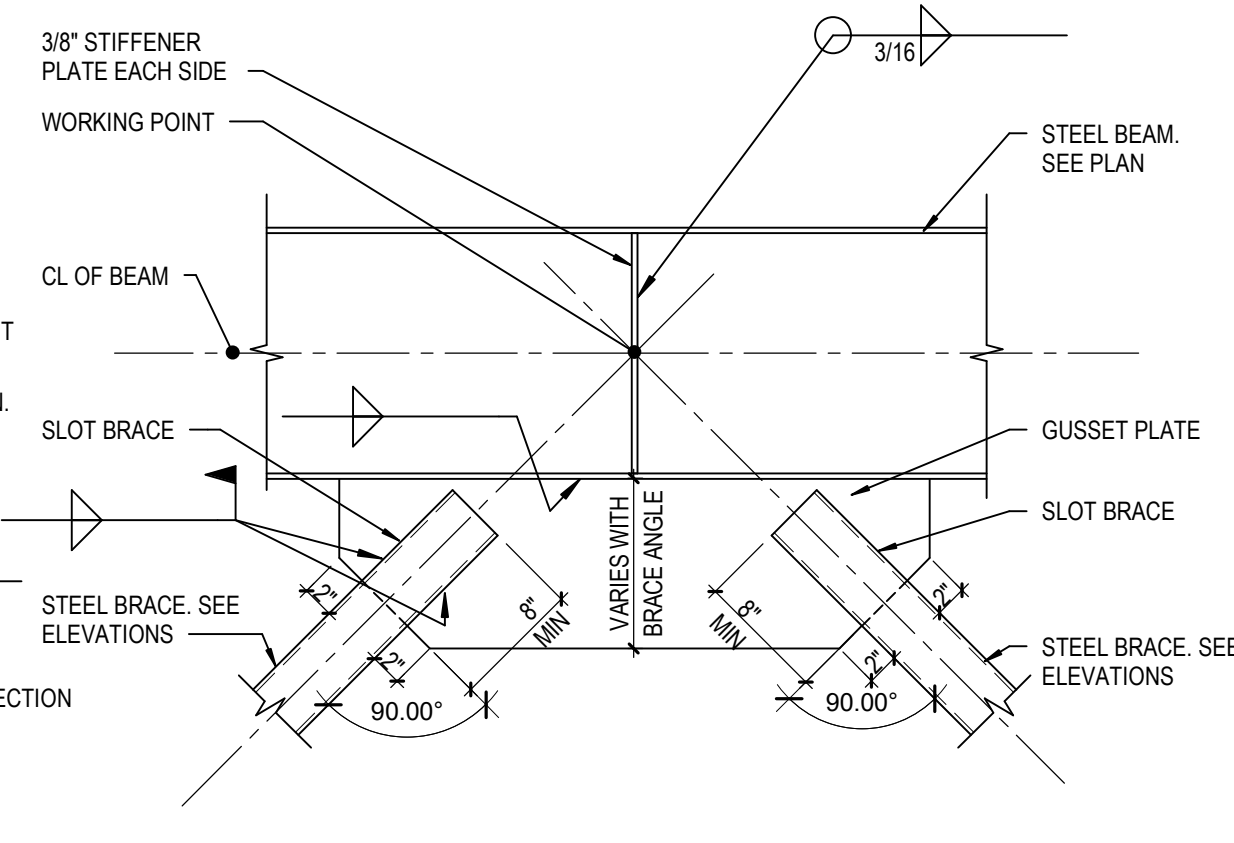
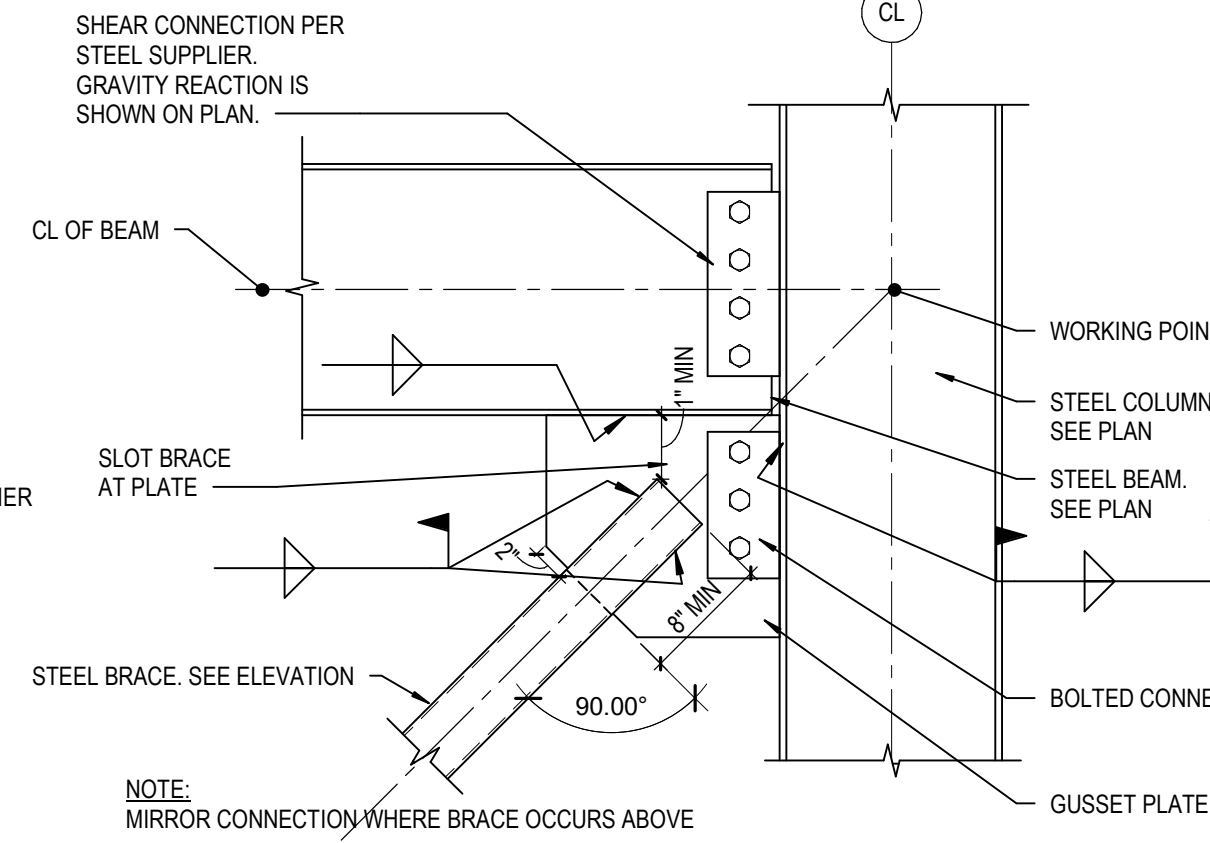
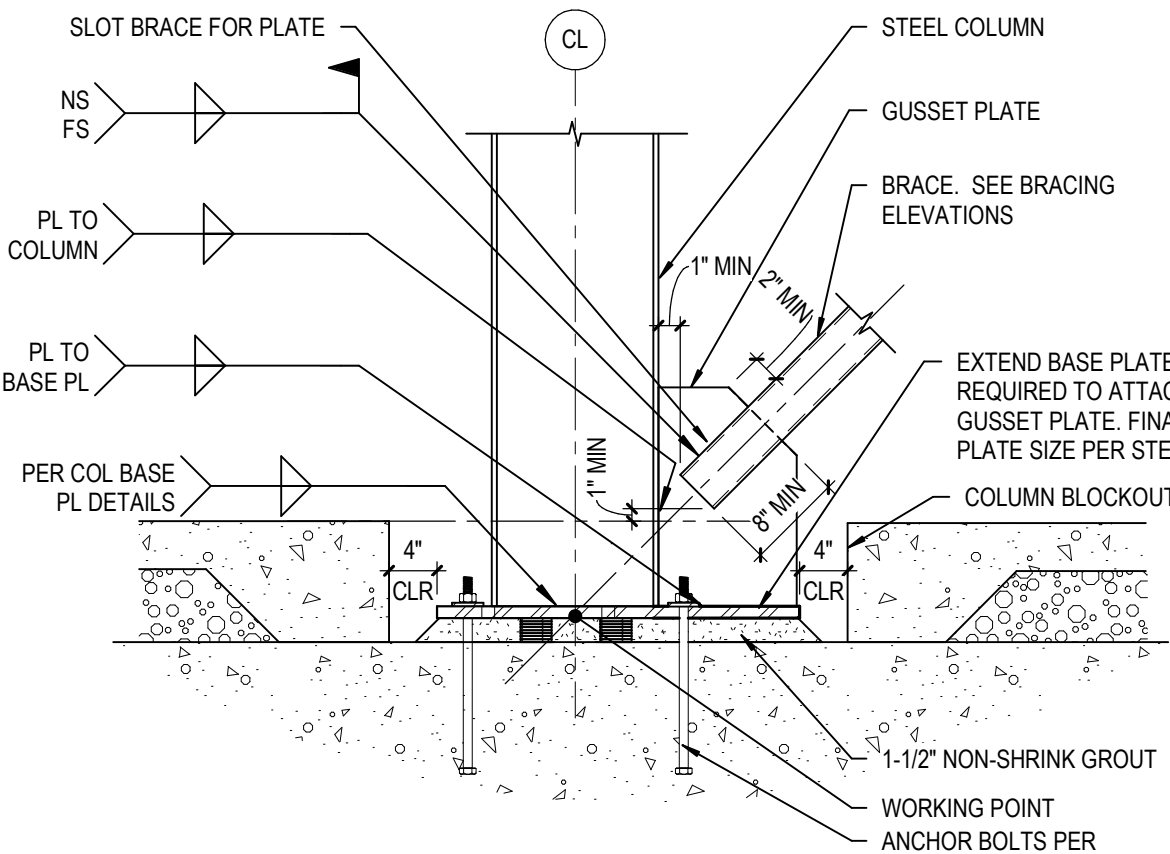


56 SECTION  
S5.5 SCALE: 3/4" = 1'-0"



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- BRACING CONNECTION NOTES
1. ALL CONNECTIONS SHOWN ARE SCHEMATIC ONLY. FINAL CONNECTION DESIGN CALCULATIONS AND DETAILING SHALL BE PROVIDED BY THE STEEL FABRICATOR'S ENGINEER.
  2. REFER TO PLANS FOR ADDITIONAL SHEAR AND AXIAL REACTIONS NOT SHOWN.
  3. ALL CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AISC LOAD AND RESISTANCE FACTOR DESIGN (LRFD) TO RESIST FACTORED REACTIONS PROVIDED FOR AN R = 3 SYSTEM.
  4. THE WORKPOINT SHALL BE DEFINED AS THE INTERSECTION OF ALL MEMBER CENTROIDS FRAMING INTO THE JOINT. STEEL SUPPLIER SHALL DESIGN THE CONNECTIONS TO TRANSFER ALL FORCES TO THE WORKPOINT.



11 BRACE CONNECTION DETAIL NOTES  
S6.1 SCALE: 1" = 1'-0"

12 TYP HSS BRACE CONNECTION DETAIL  
S6.1 SCALE: 3/4" = 1'-0"

13 TYP HSS BRACE CONNECTION DETAIL  
S6.1 SCALE: 1" = 1'-0"

14 BRACE CONNECTION DETAIL  
S6.1 SCALE: 1" = 1'-0"

LEE'S SUMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT R-7 SCHOOL DISTRICT

1001 SE BAILEY ROAD  
LEE'S SUMMIT, MO 64681

PACKAGE 3 - BUILDING & SITE  
- ISSUE FOR PERMIT  
10/08/20  
REVISIONS

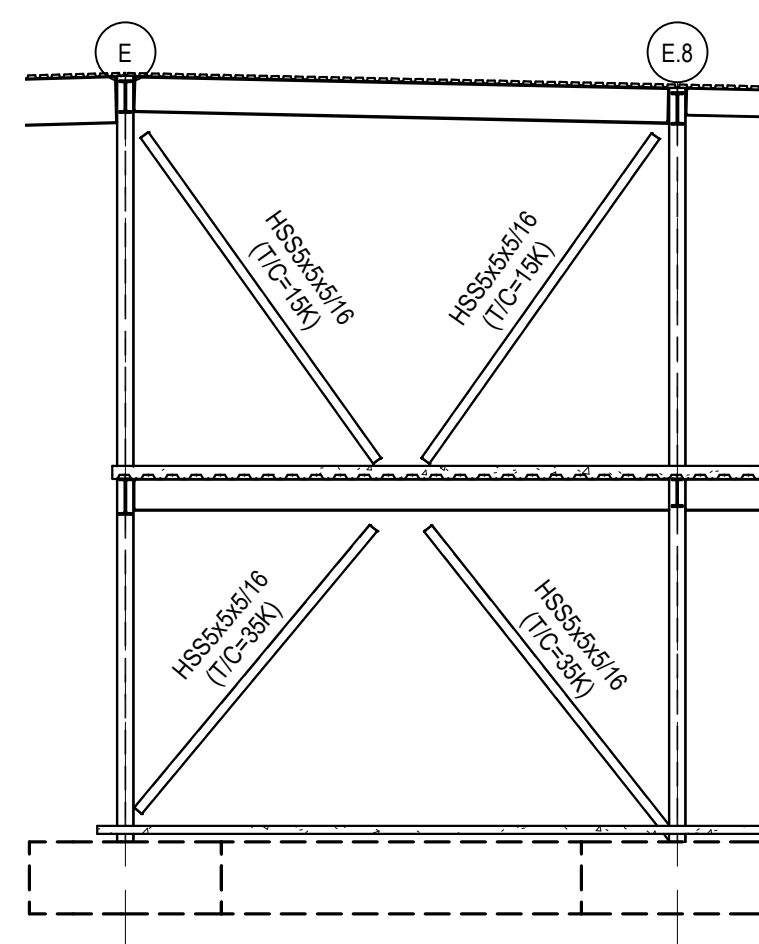
13-20102-00

BRACED FRAME  
TYPICAL DETAILS

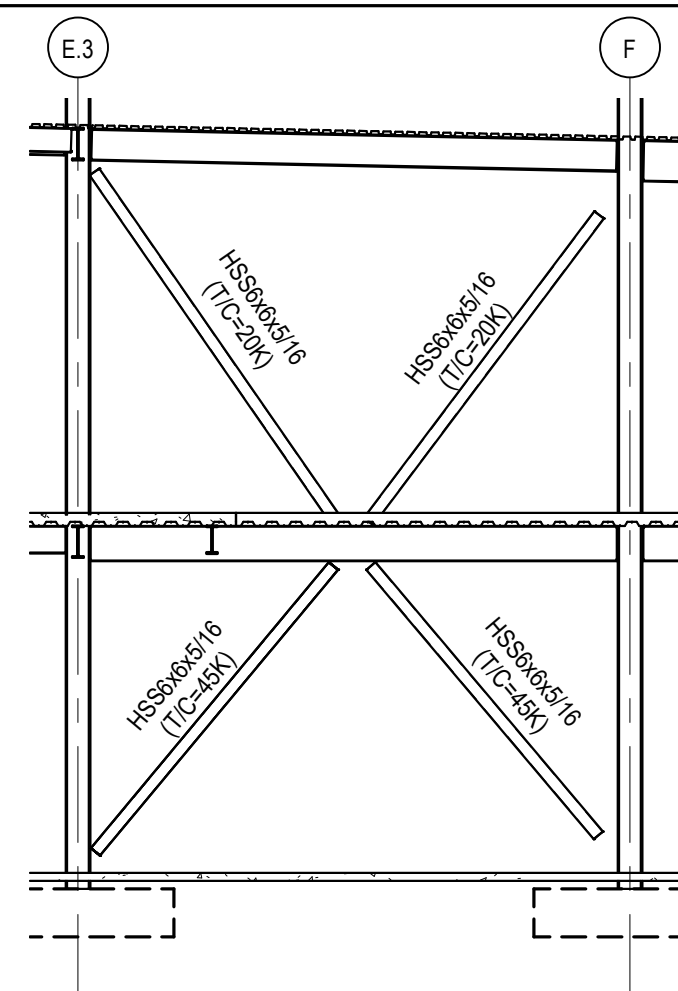
S6.1



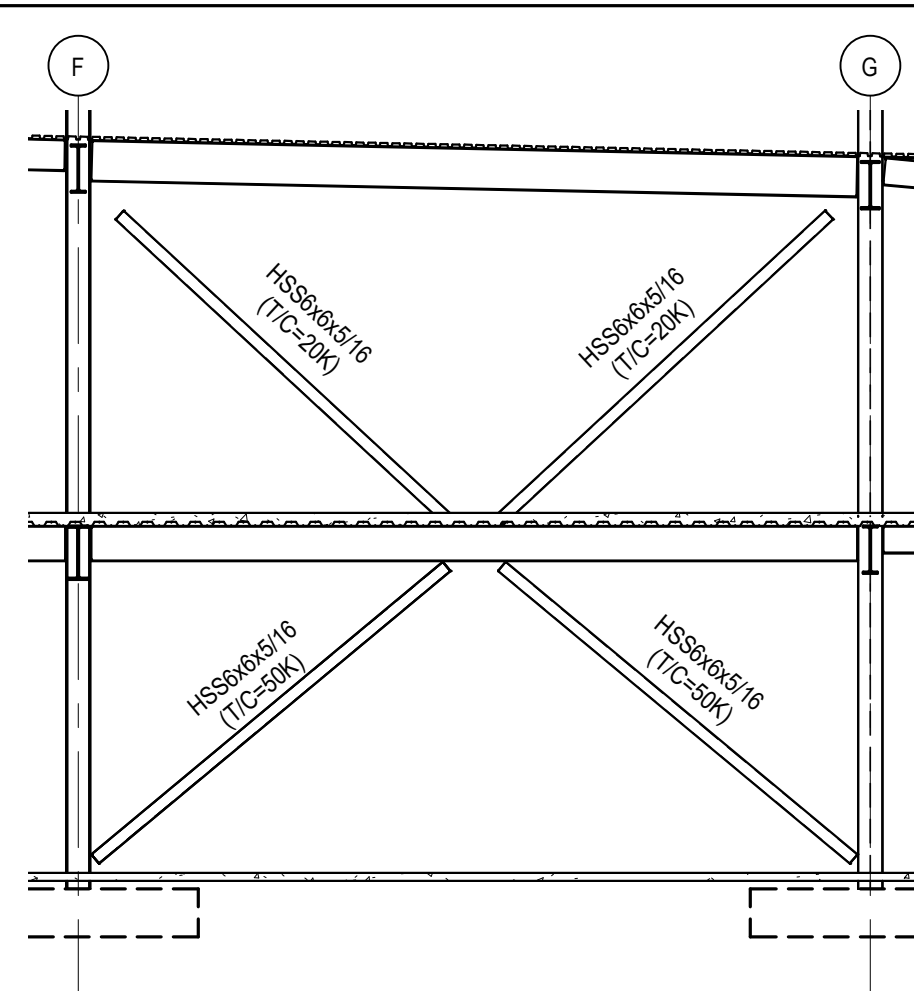




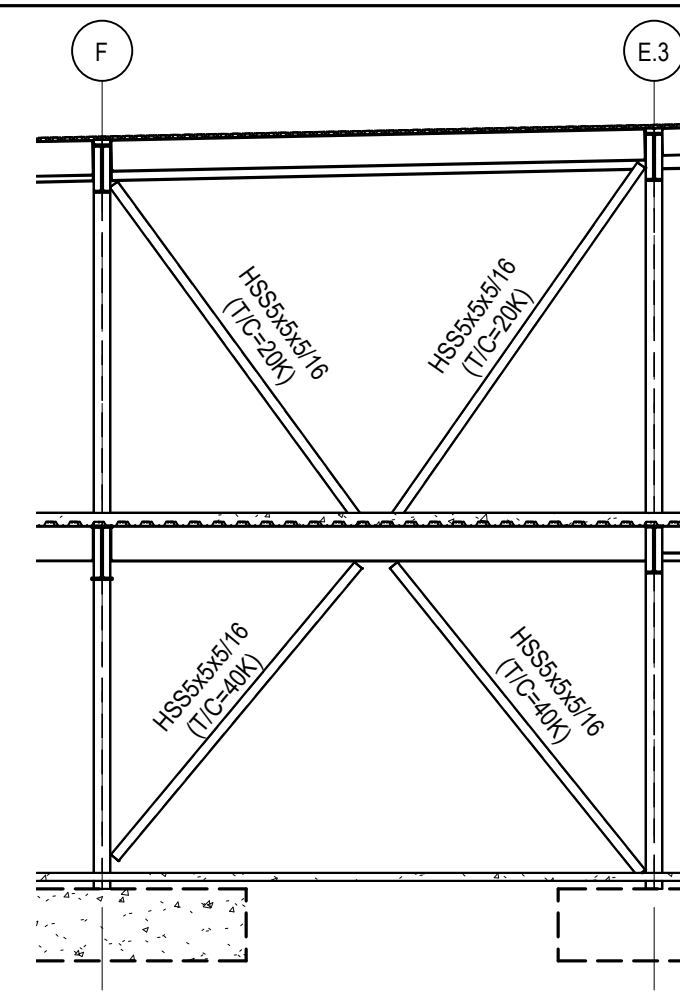
11 ELEVATION  
S6.2 SCALE: 1/8" = 1'-0"



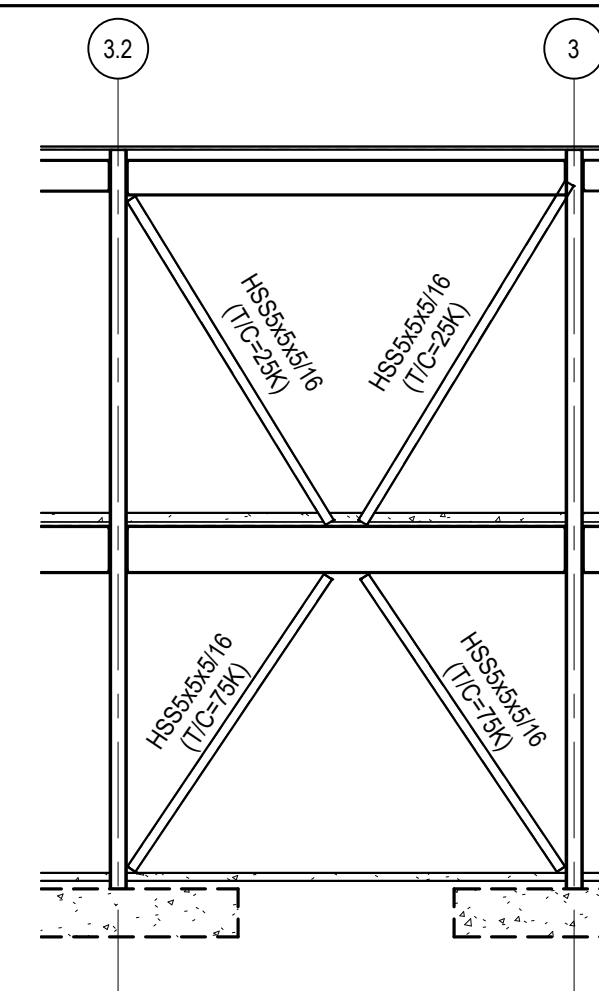
12 ELEVATION  
S6.2 SCALE: 1/8" = 1'-0"



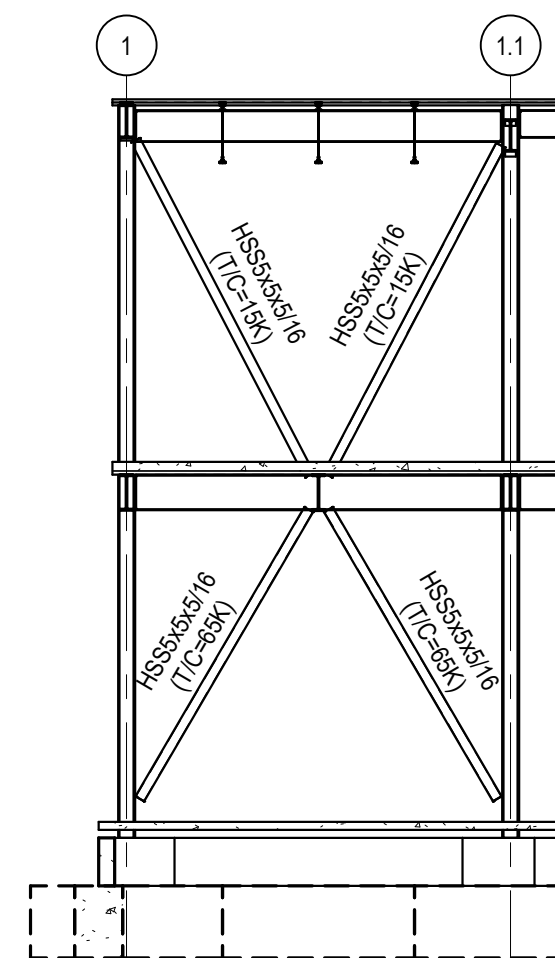
13 ELEVATION  
S6.2 SCALE: 1/8" = 1'-0"



14 ELEVATION  
S6.2 SCALE: 1/8" = 1'-0"

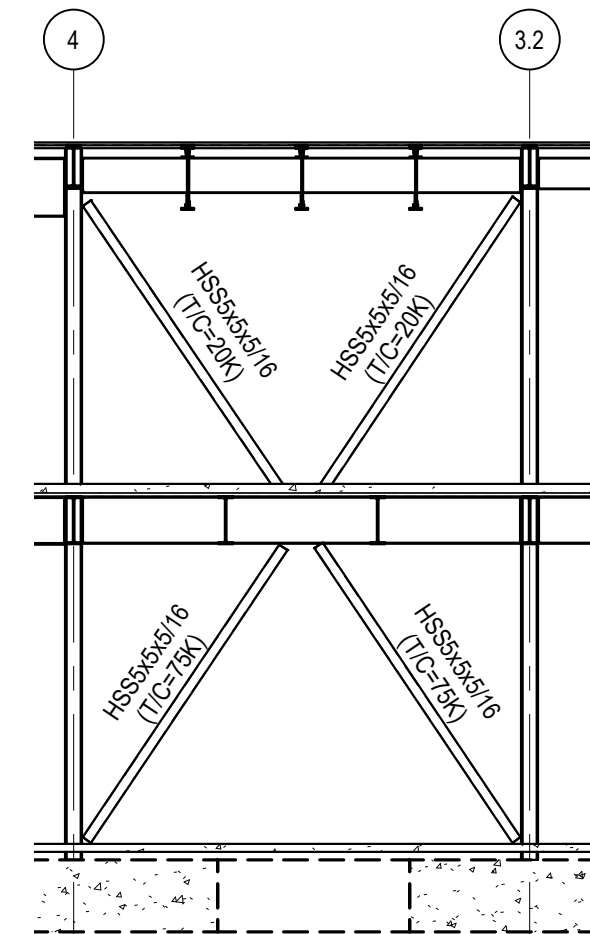


15 ELEVATION  
S6 2 SCALE: 1/8" = 1'-0"



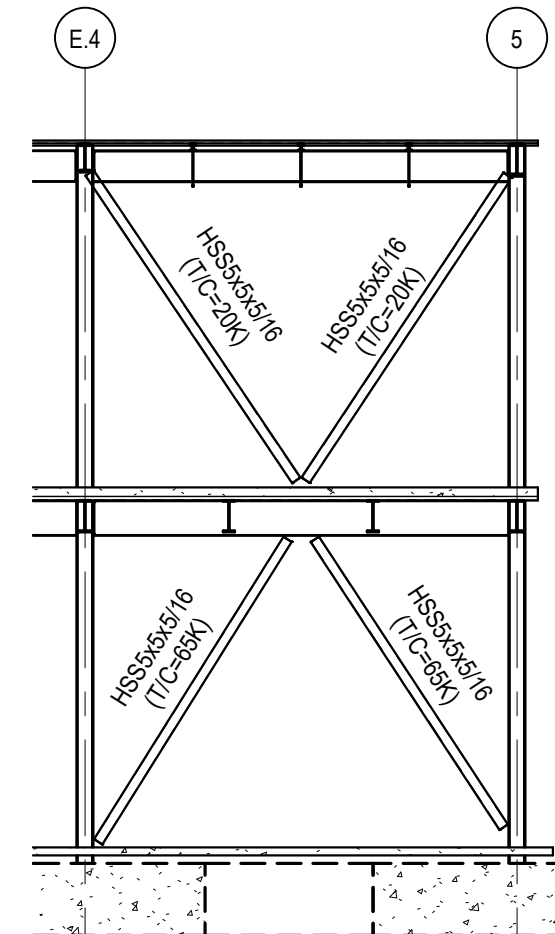
22  
S6.2

ELEVATION  
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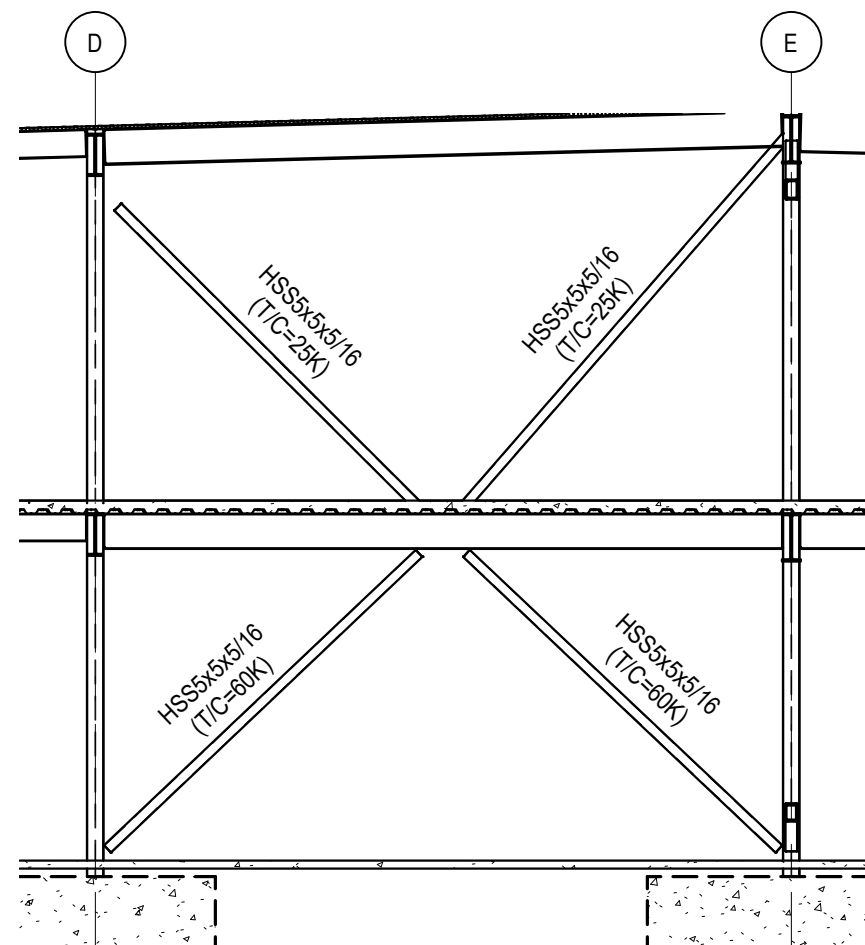


23  
S6.2

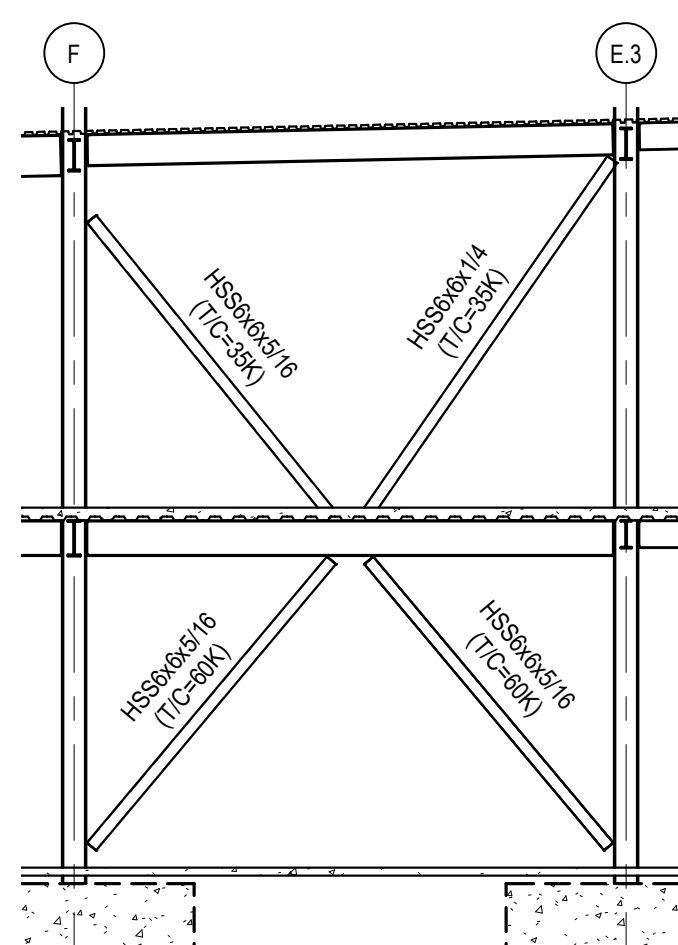
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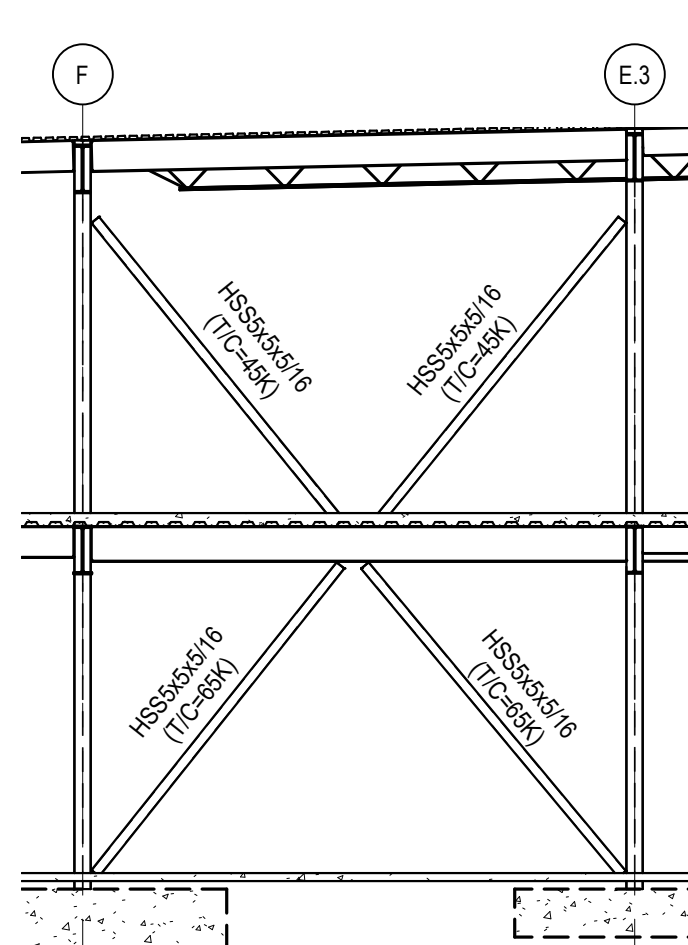
24 ELEVATION  
S6.2 SCALE: 1/8" = 1'-0"



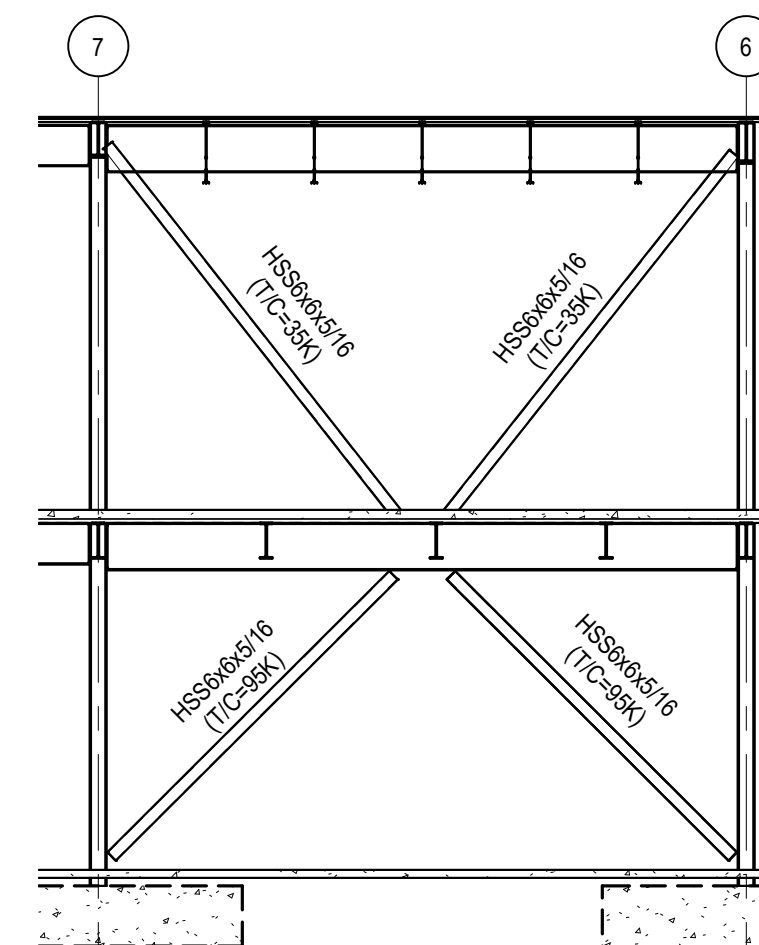
31 ELEVATION  
S6.2 SCALE: 1/8" = 1'-0"



32 ELEVATION  
S6.2 SCALE: 1/8" = 1'-0"



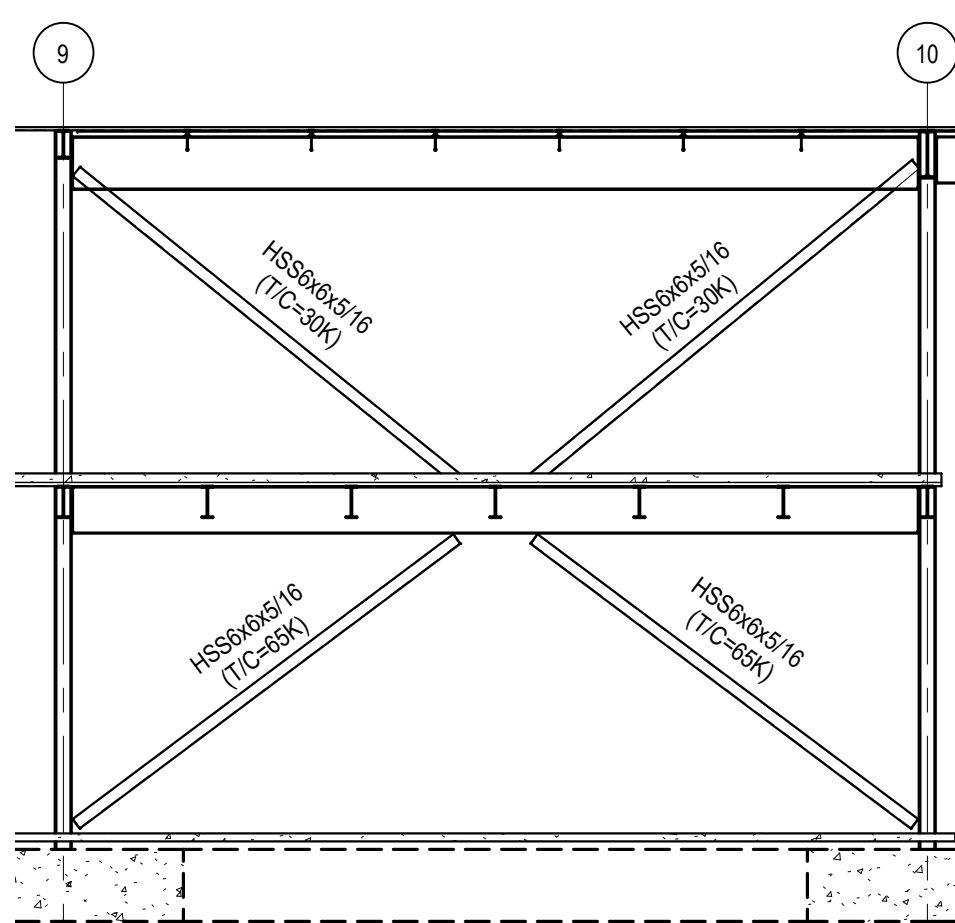
33 ELEVATION  
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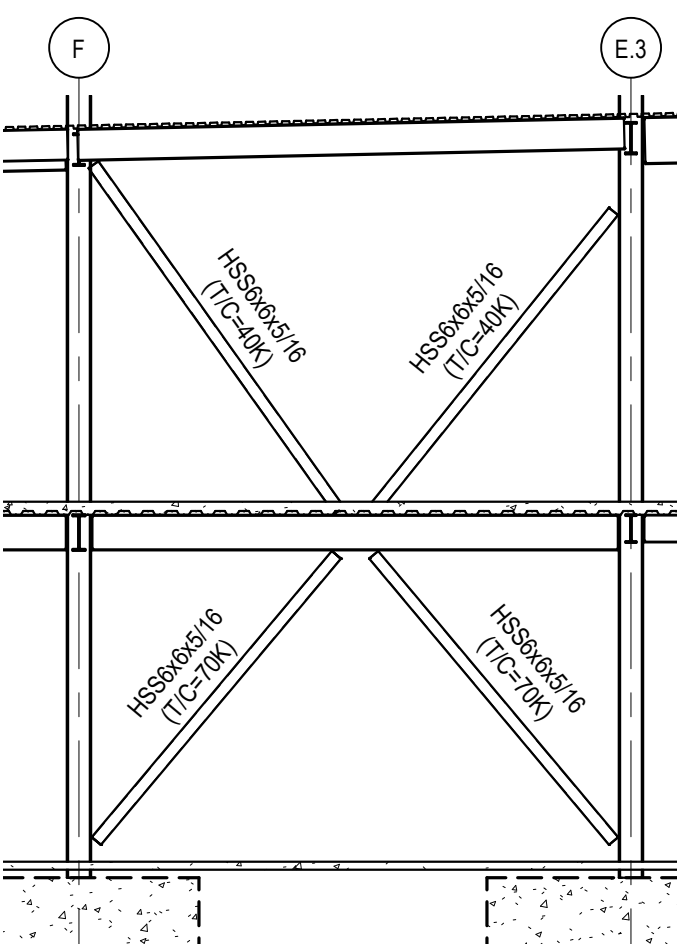
34  
S6.2

ELEVATION

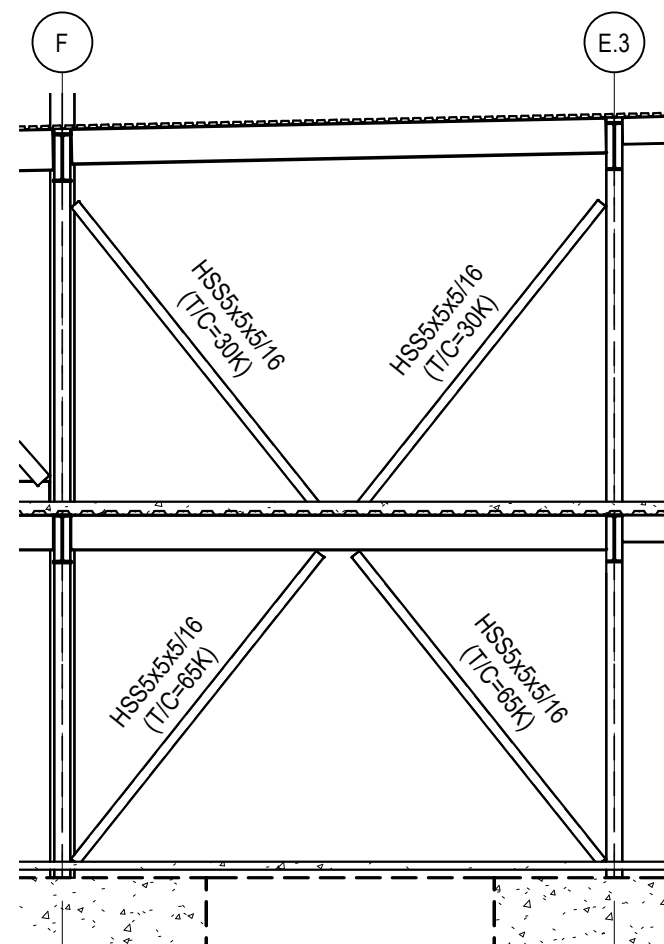
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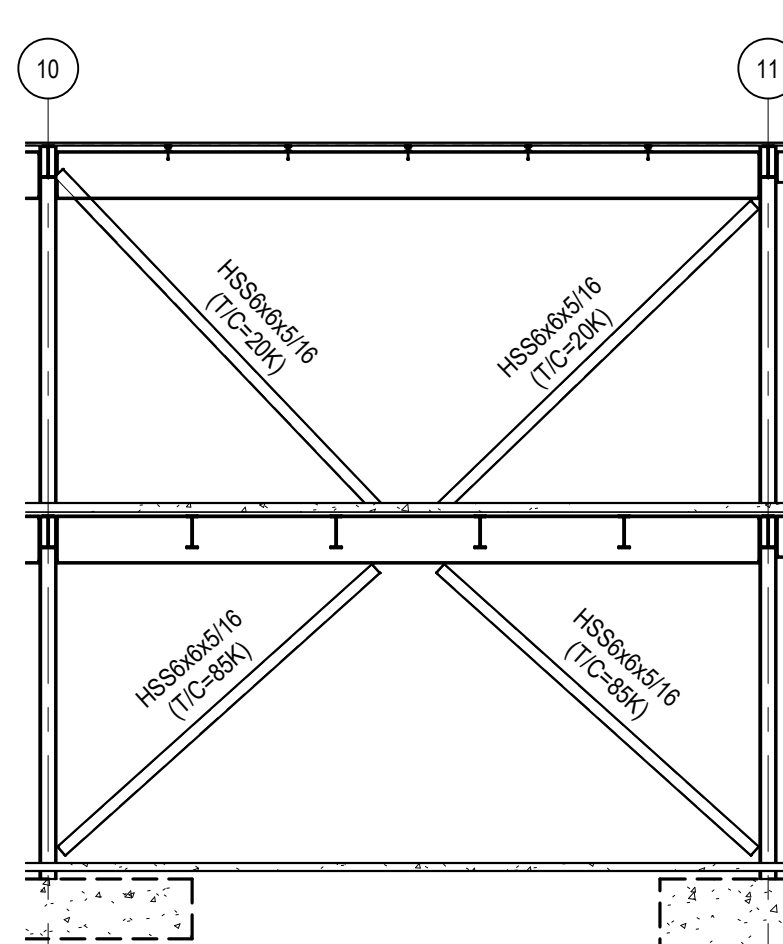
41 ELEVATION  
S6.2 SCALE: 1/8" = 1'-0"



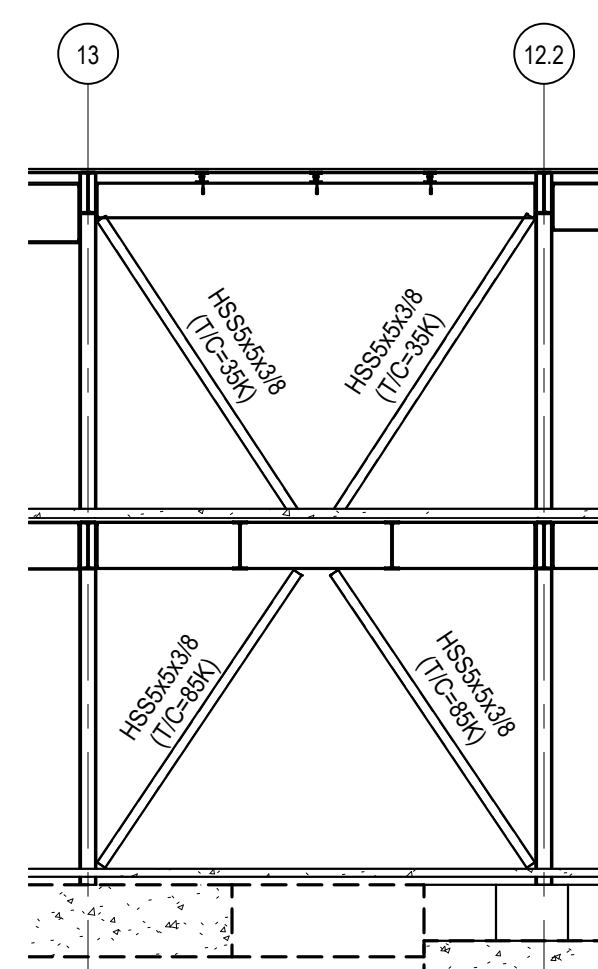
51 ELEVATION  
S6.2 SCALE: 1/8" = 1'-0"



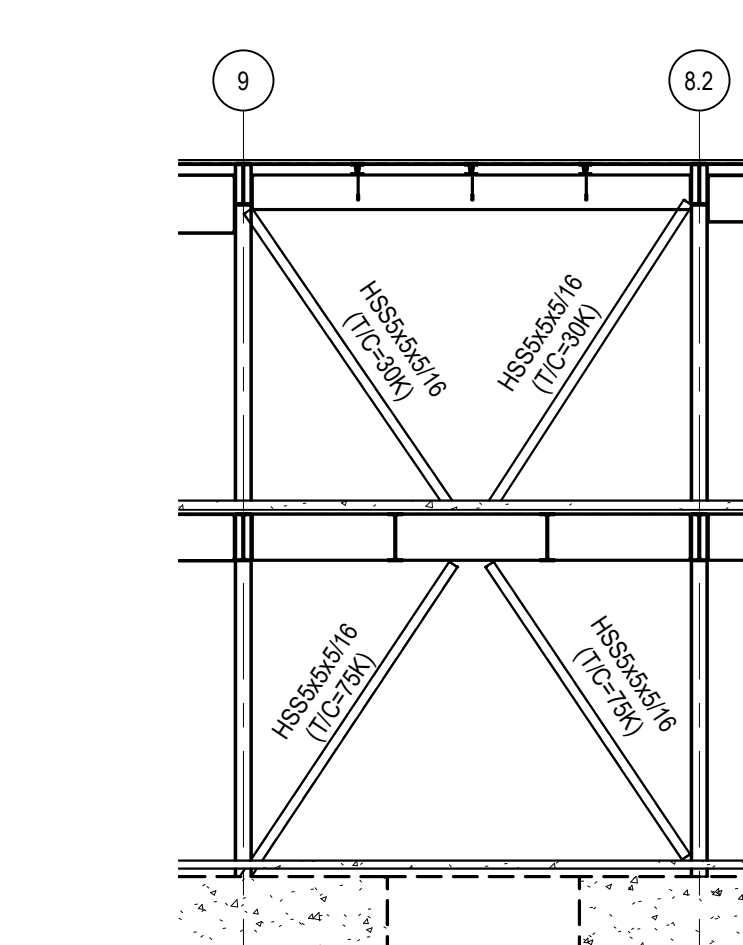
52 ELEVATION  
S6.2 SCALE: 1/8" = 1'-0"



53 ELEVATION  
S6.2 SCALE: 1/8" = 1'-0"

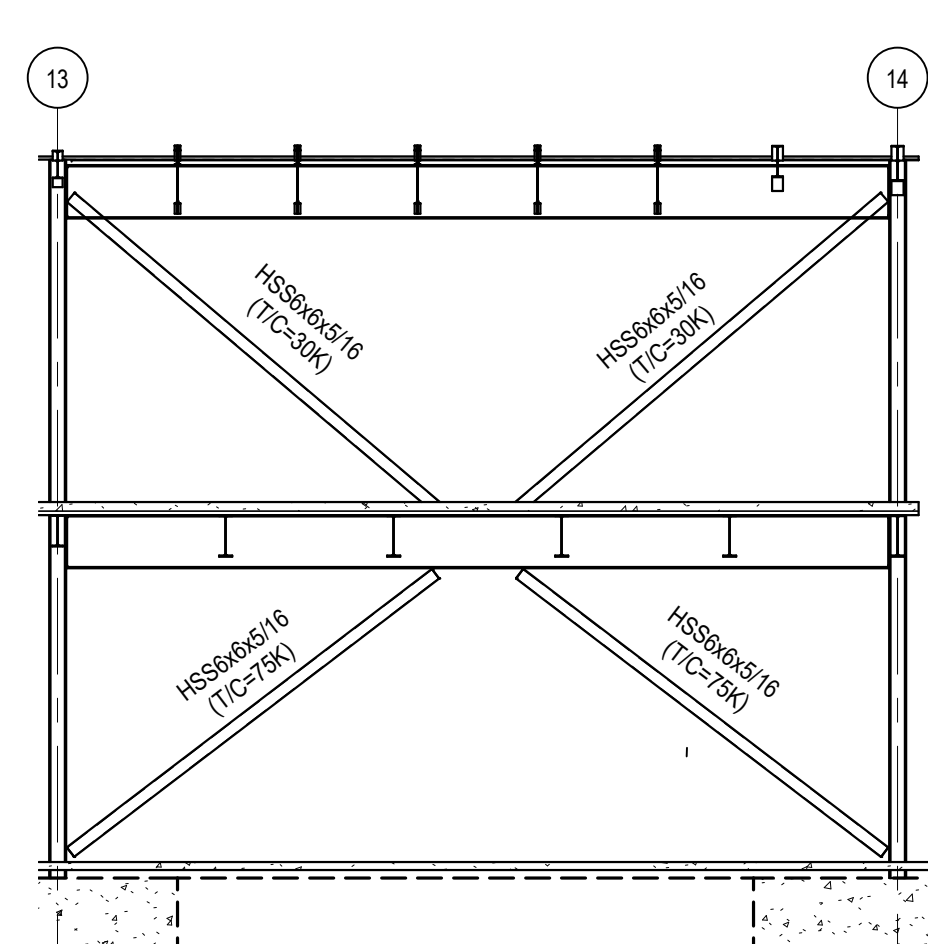


54 ELEVATION  
S6.2 SCALE: 1/8" = 1'-0"



36  
S6.2

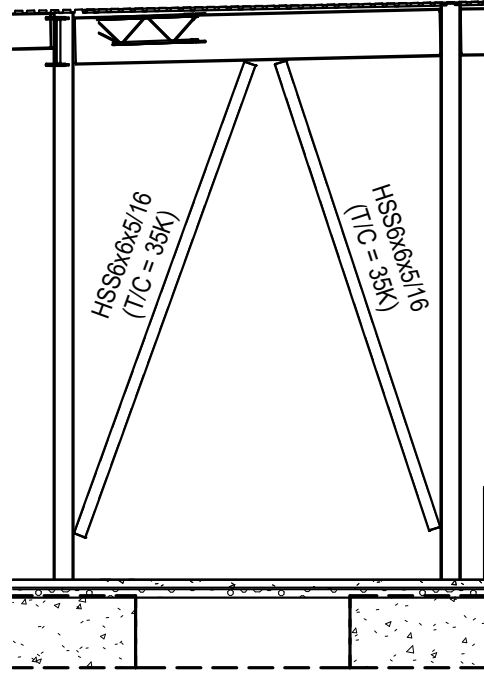
ELEVATION  
SCALE: 1/8" = 1'-0"



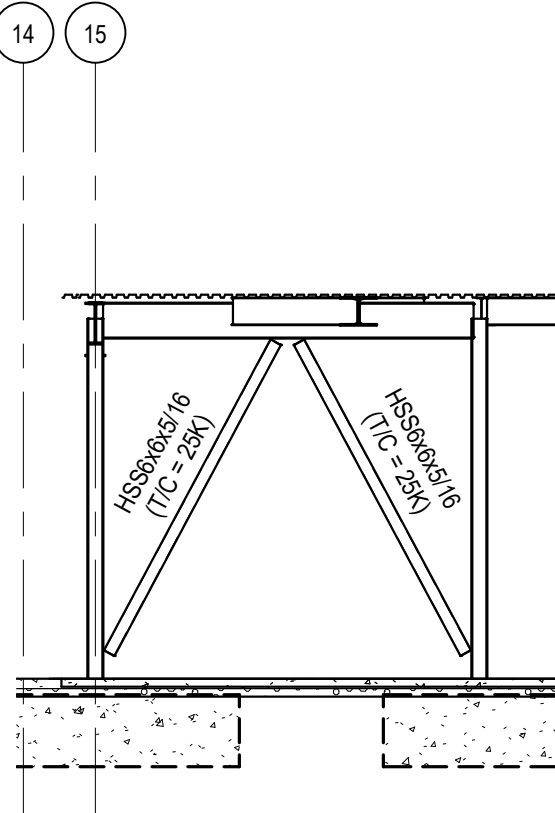
56 ELEVATION  
S6.2 SCALE: 1/8" = 1'-0"



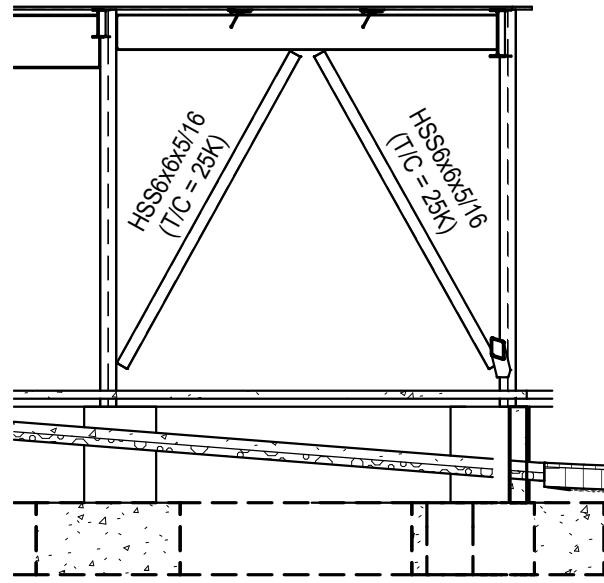
BM 350/1/15-20102-00 Lee's Summit Middle School 4/15/20102-00 Lee's Summit Middle School 4 ST\_2020.rvt  
10/7/2020 4:40:02 PM



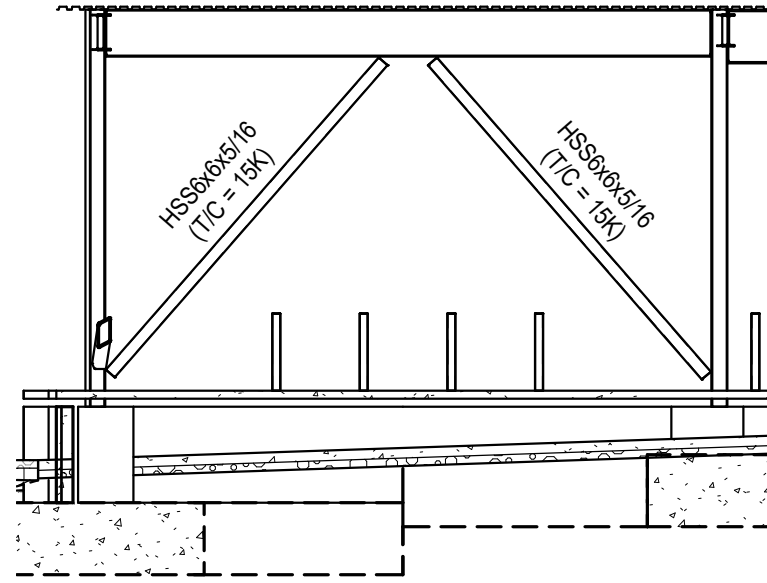
11  
S6.3 ELEVATION  
SCALE: 1/8" = 1'-0"



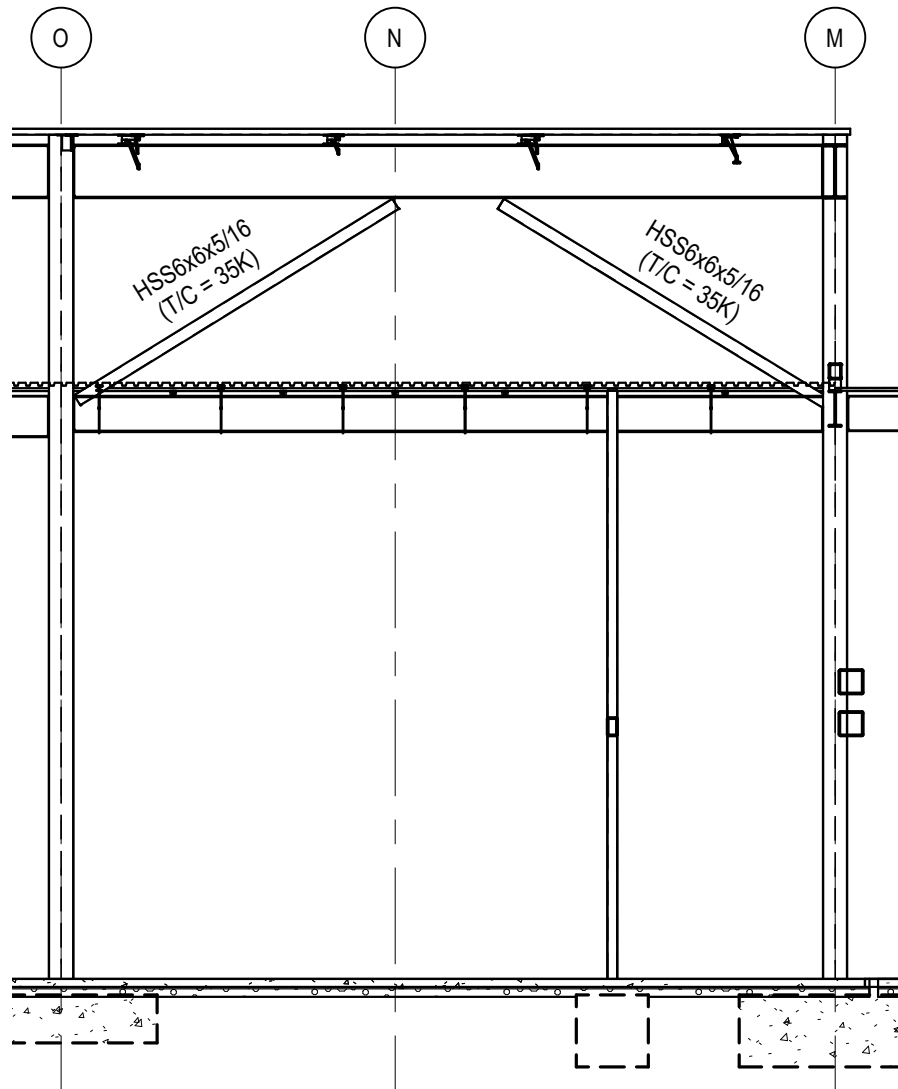
13  
S6.3 ELEVATION  
SCALE: 1/8" = 1'-0"



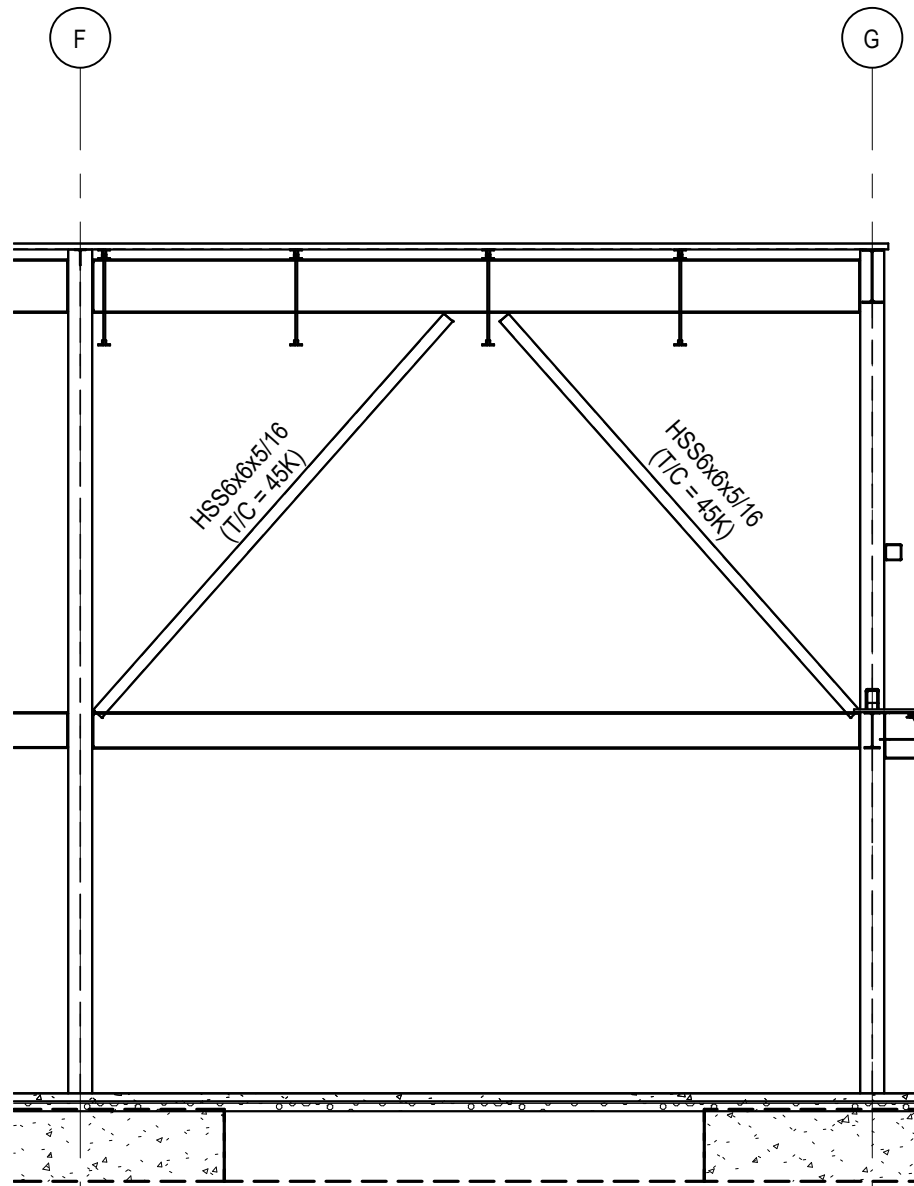
14  
S6.3 ELEVATION  
SCALE: 1/8" = 1'-0"



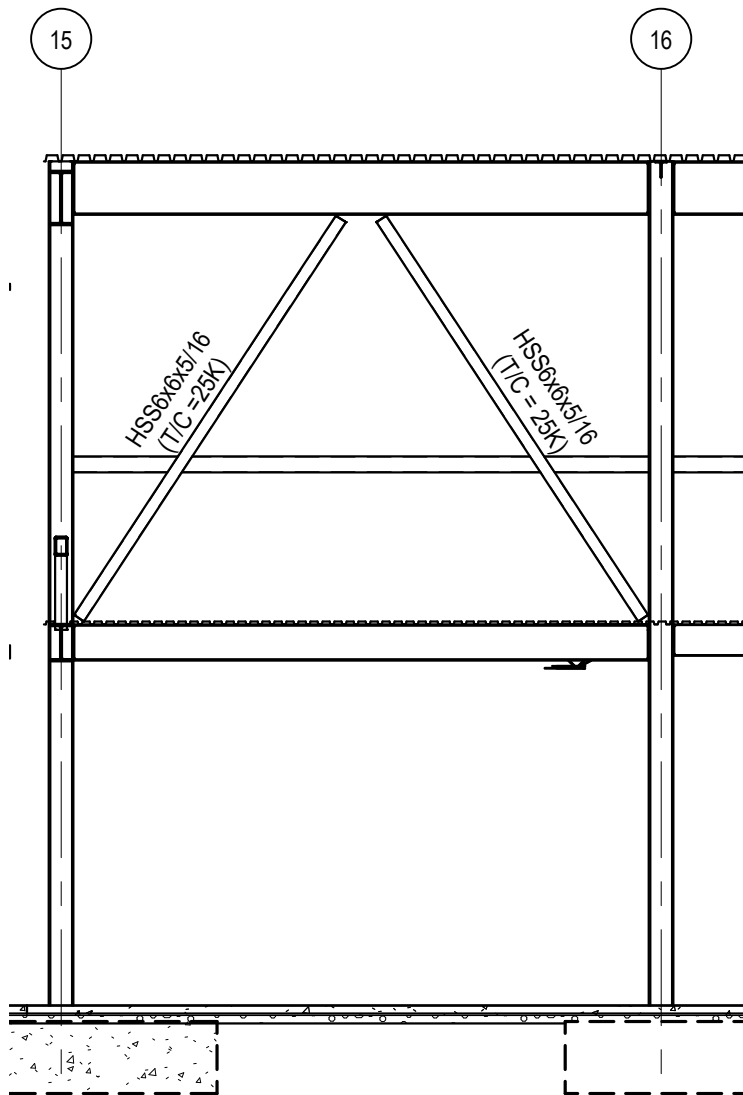
15  
S6.3 ELEVATION  
SCALE: 1/8" = 1'-0"



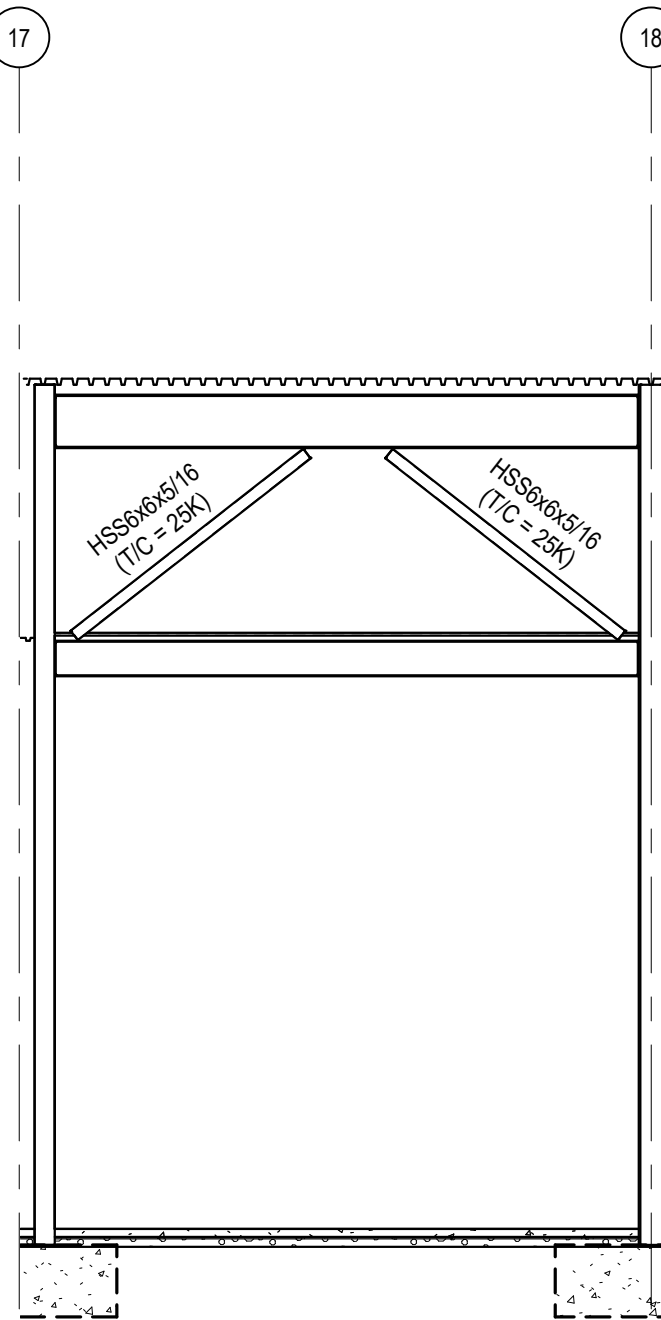
41  
S6.3 ELEVATION  
SCALE: 1/8" = 1'-0"



42  
S6.3 ELEVATION  
SCALE: 1/8" = 1'-0"



43  
S6.3 ELEVATION  
SCALE: 1/8" = 1'-0"



44  
S6.3 ELEVATION  
SCALE: 1/8" = 1'-0"

