

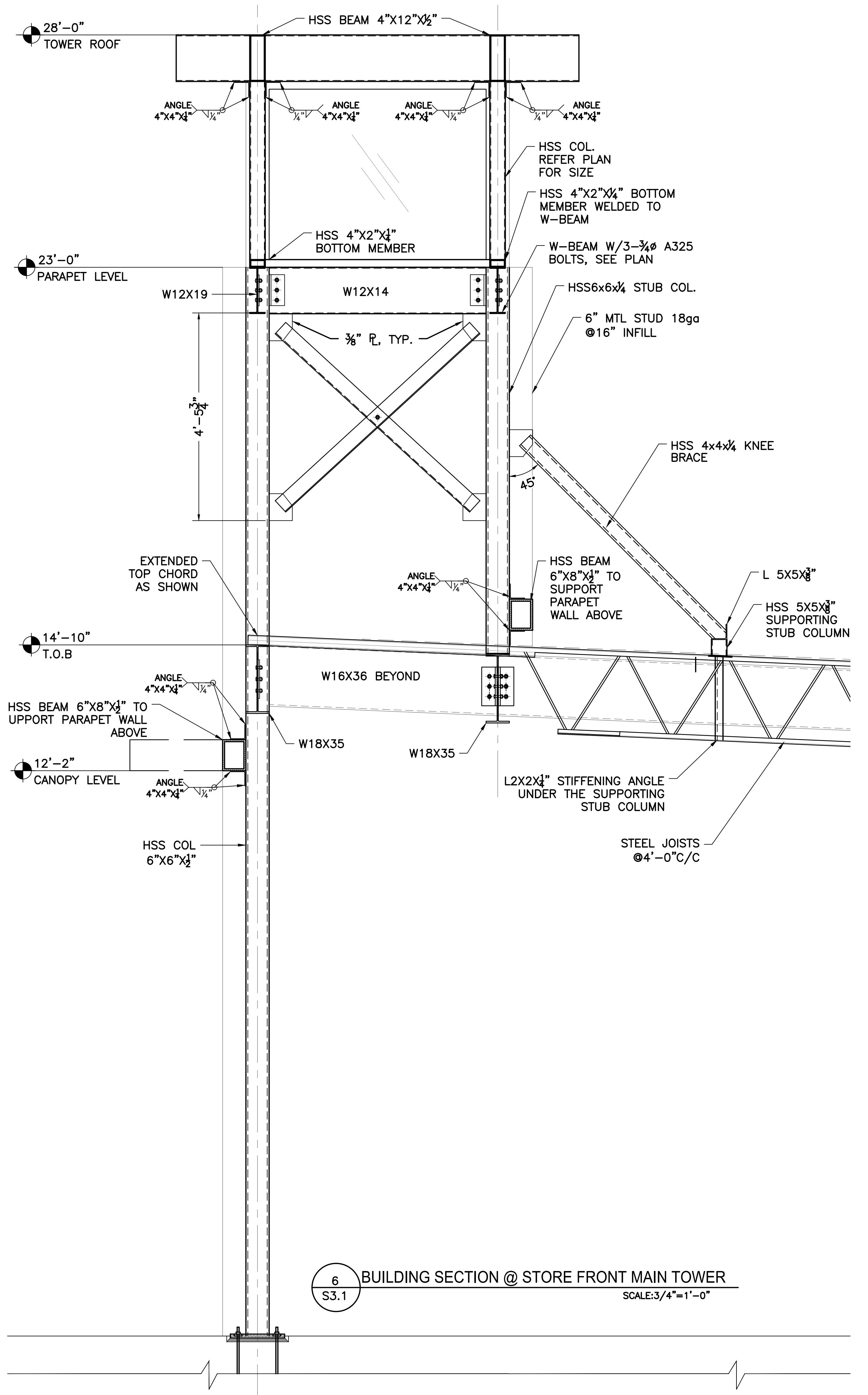
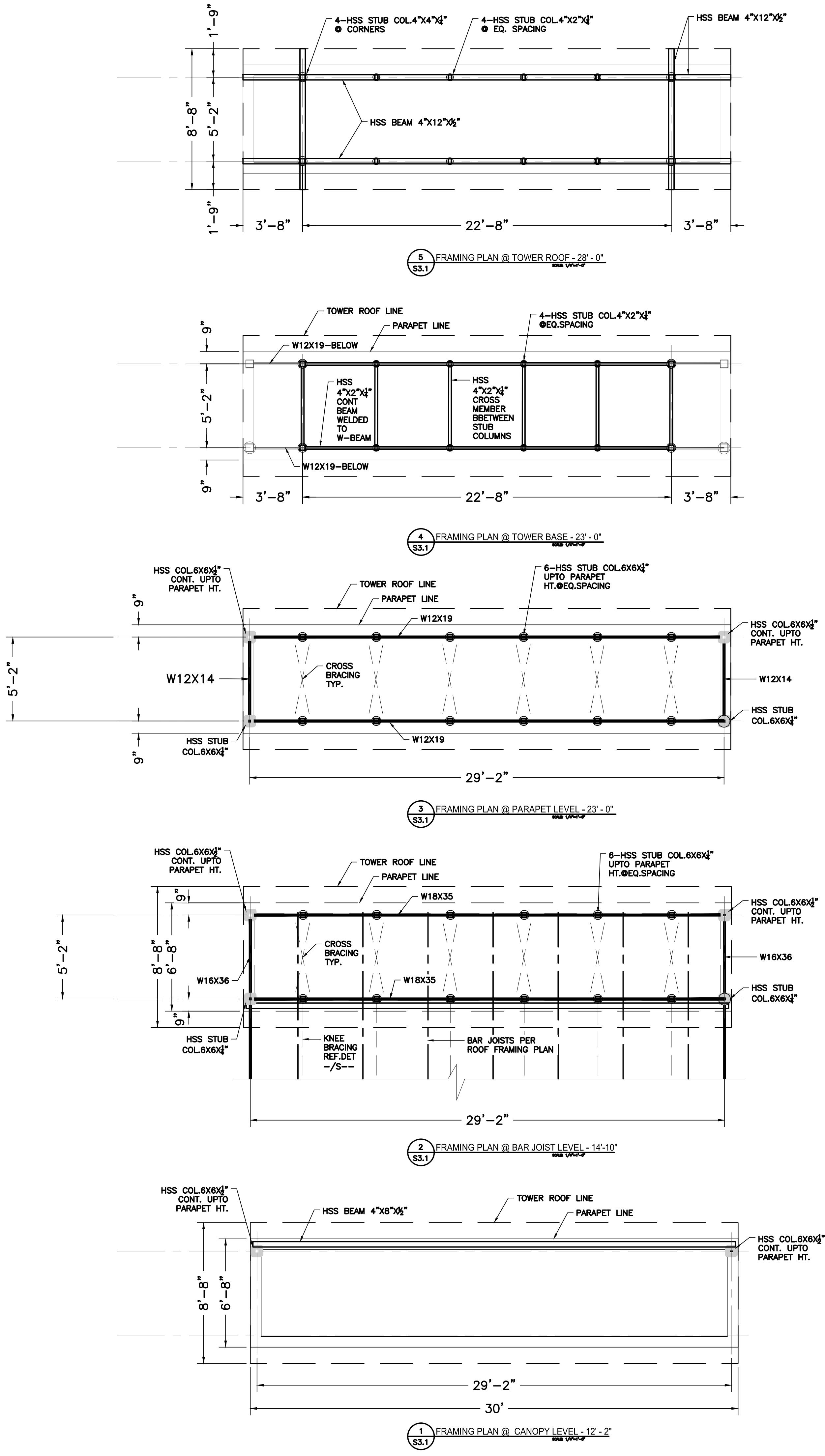
ROOF FRAMING

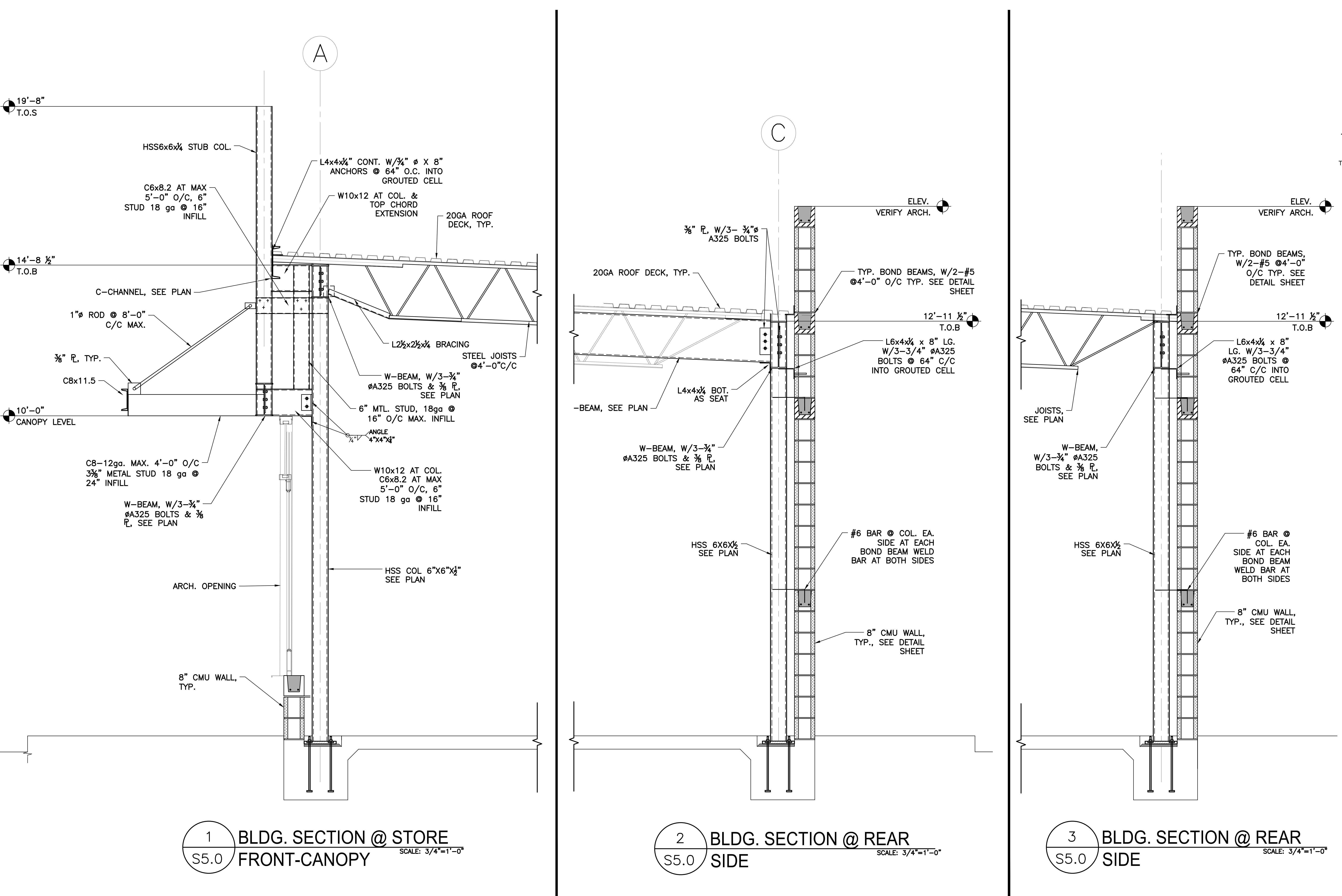
SCALE: 1/4" = 1'-0"

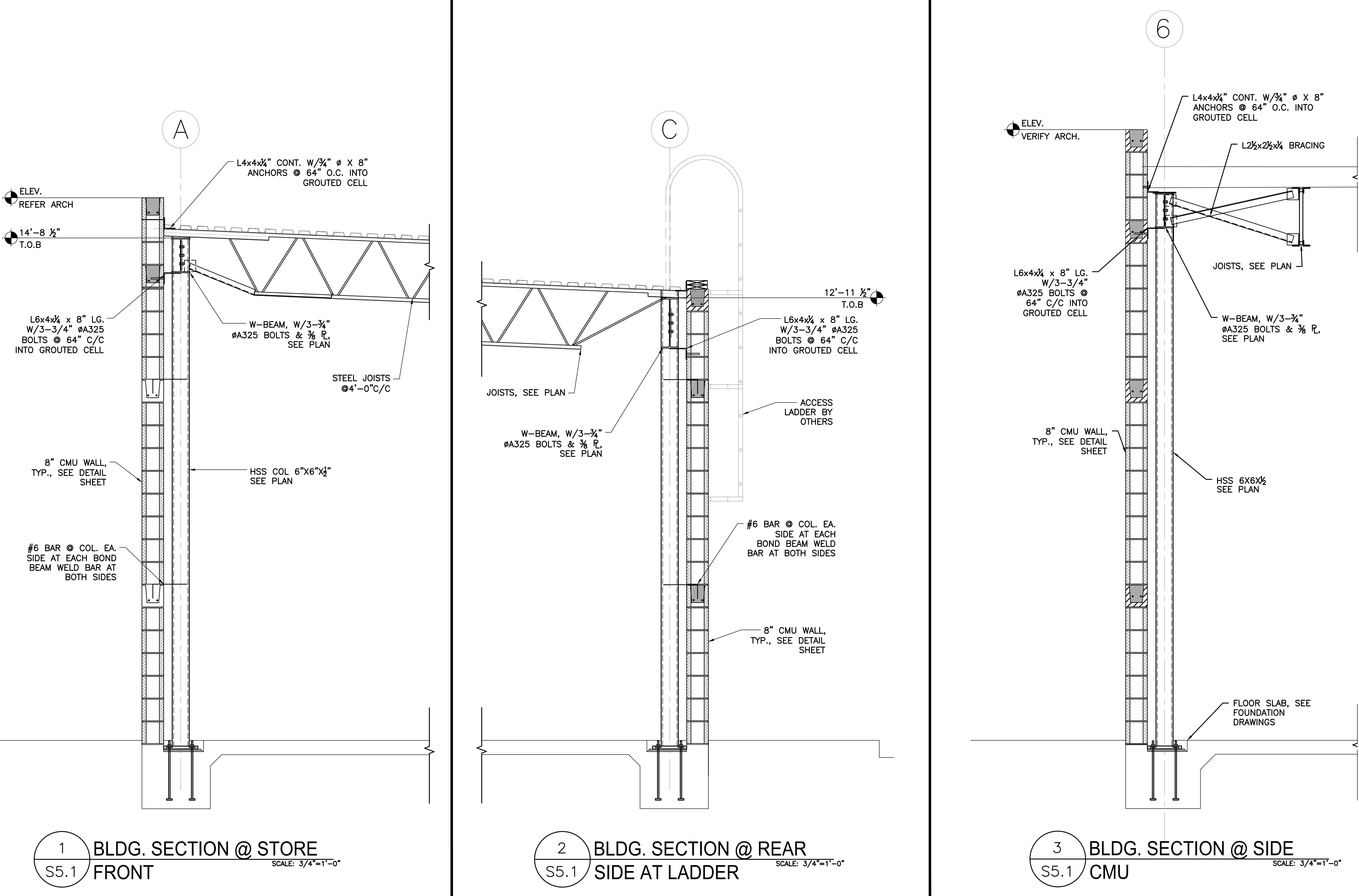
- (○) HSS STUB (FOR FRAMING ABOVE)
- — — L2x2x1/2 (MIN.) BRIDGING IN BETWEEN JOIST AS SHOWN
- (W1) SEE STANDARD DETAIL SHEET FOR MASONRY WALL
- (L1) HSS 12x6x1/4
- (L2) --
- (L3) SEE STANDARD DETAIL SHEET FOR MASONRY LINTEL
- MOMENT CONNECTION

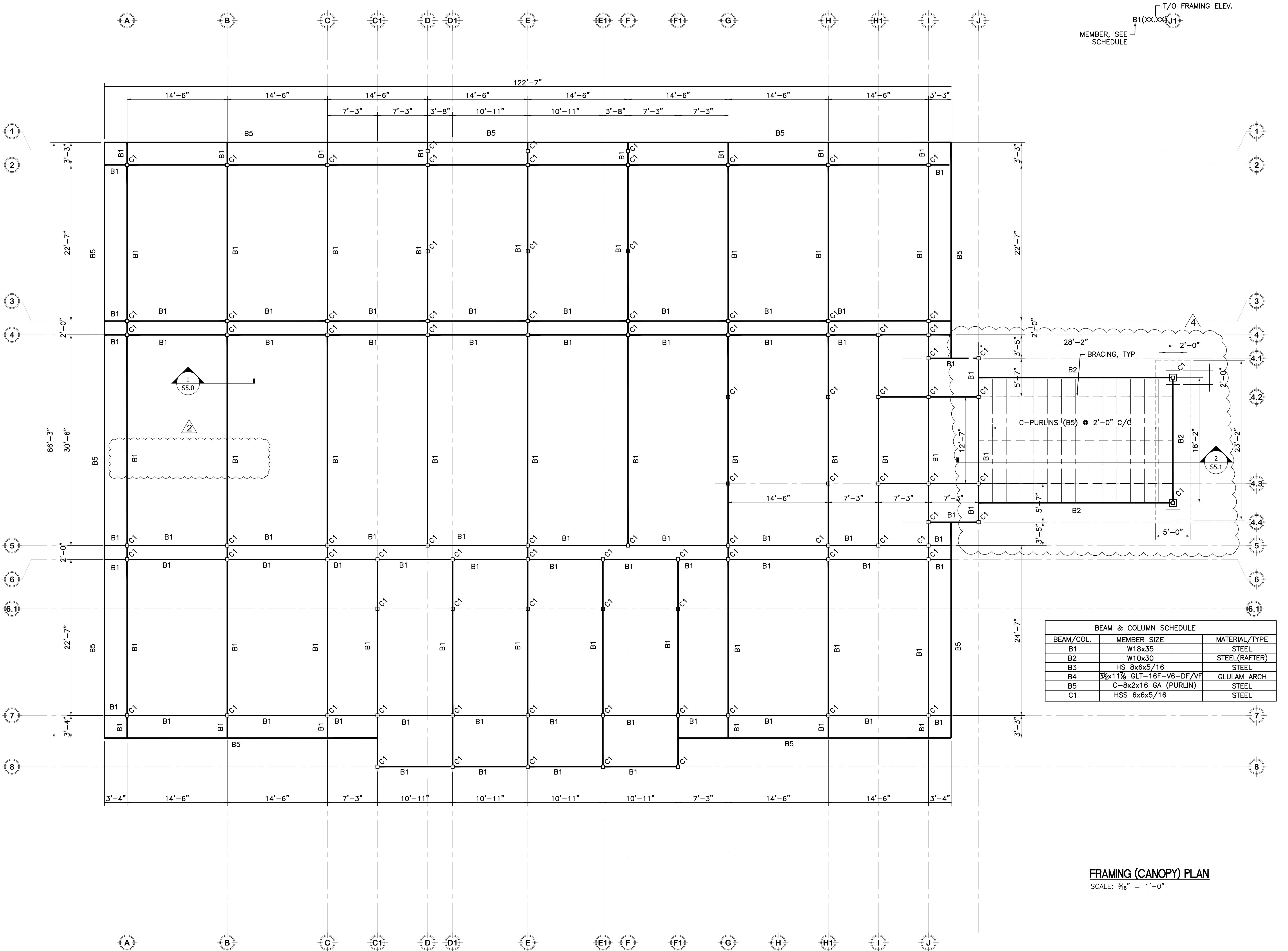
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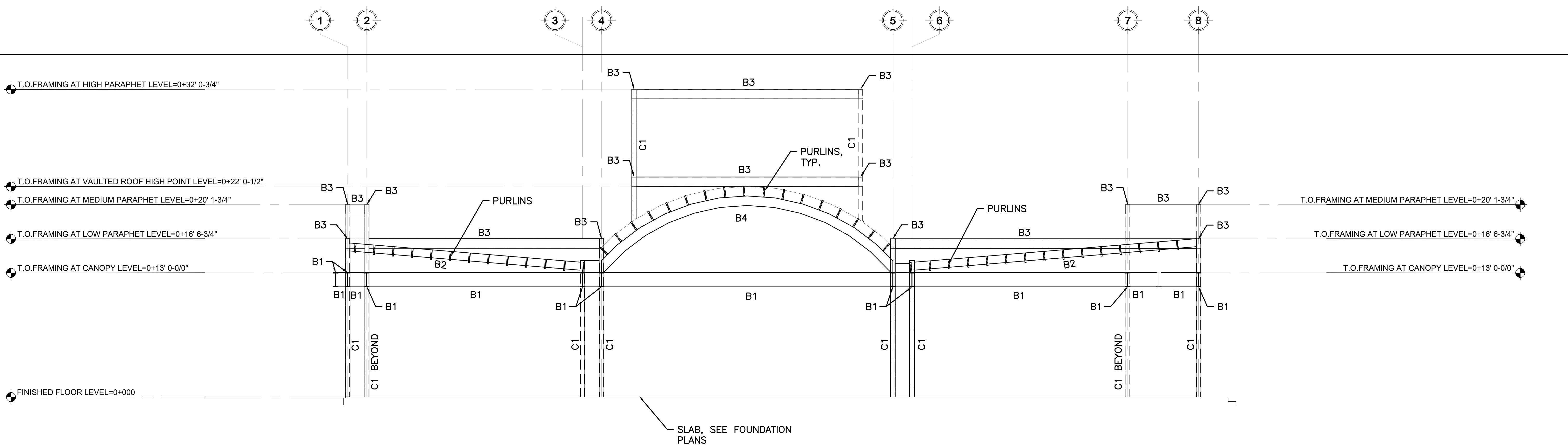
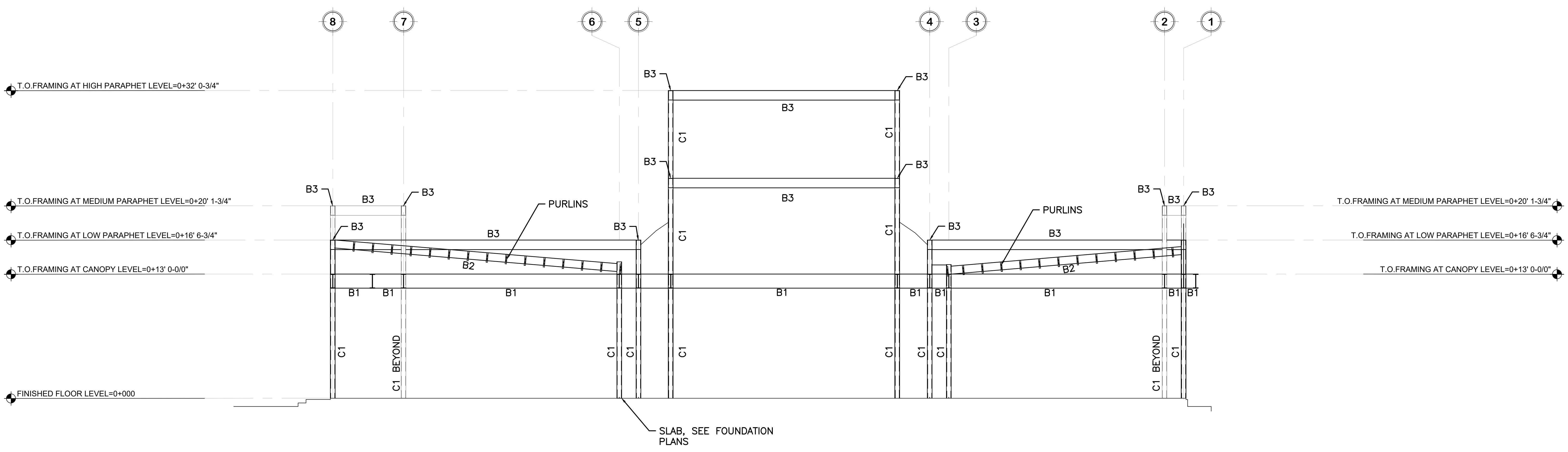
* USE 600S200-54P STUD @ 16" C/C AS METAL STUD WALL U.N.O.
ALSO REFER ARCH.DRGS. FOR MORE DETAILS.

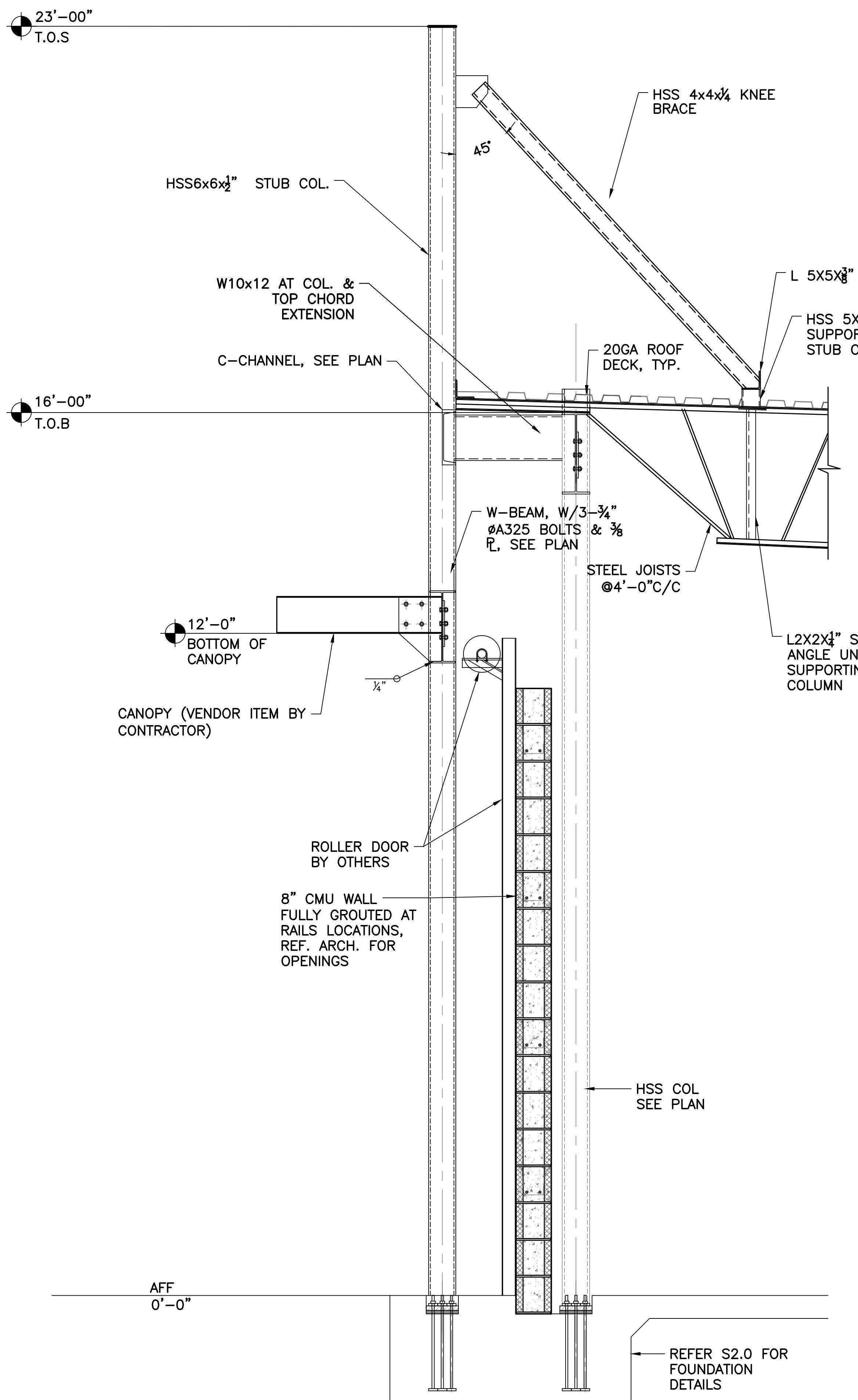








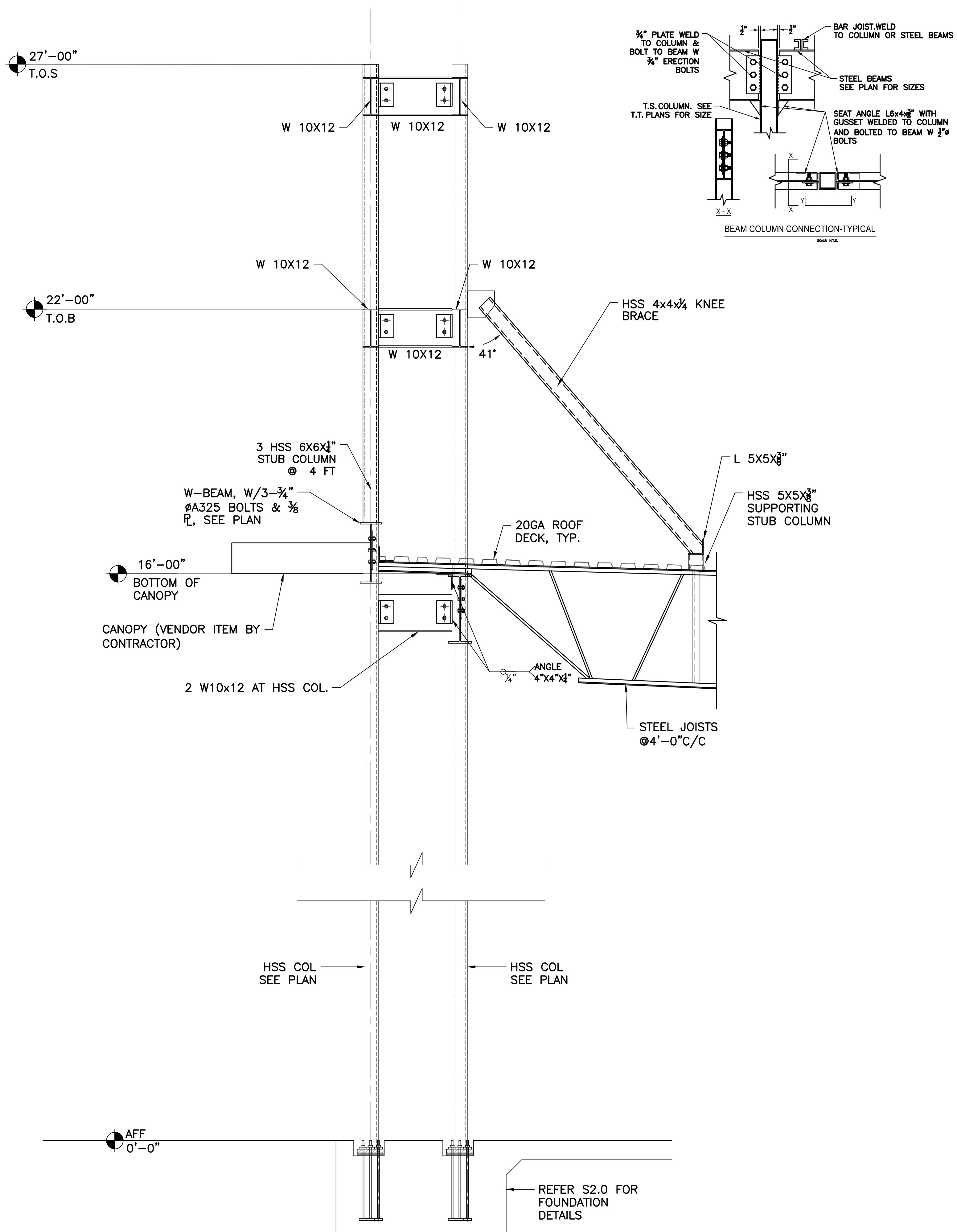




1
S5.0

WALL SECTION @ CANOPY

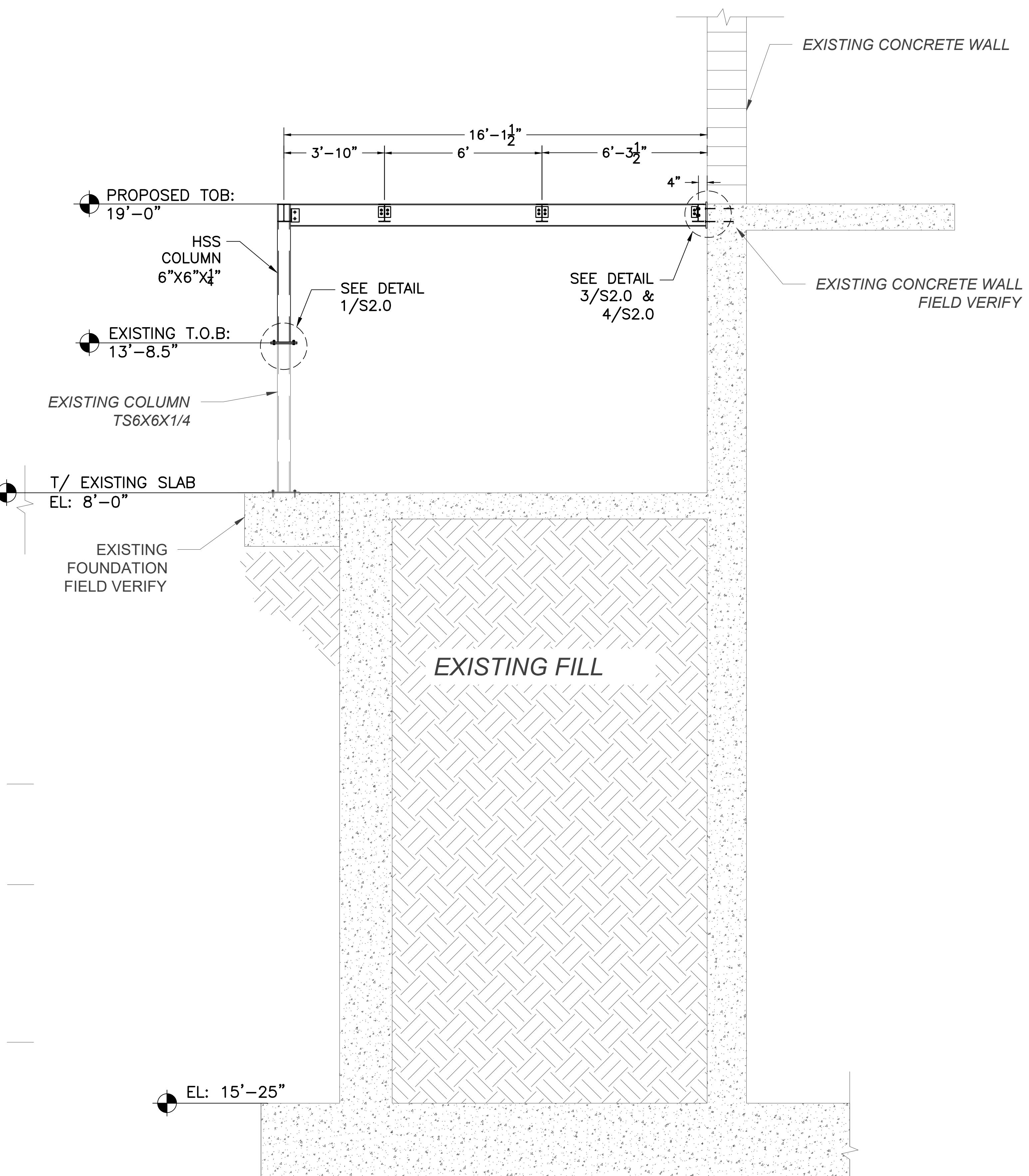
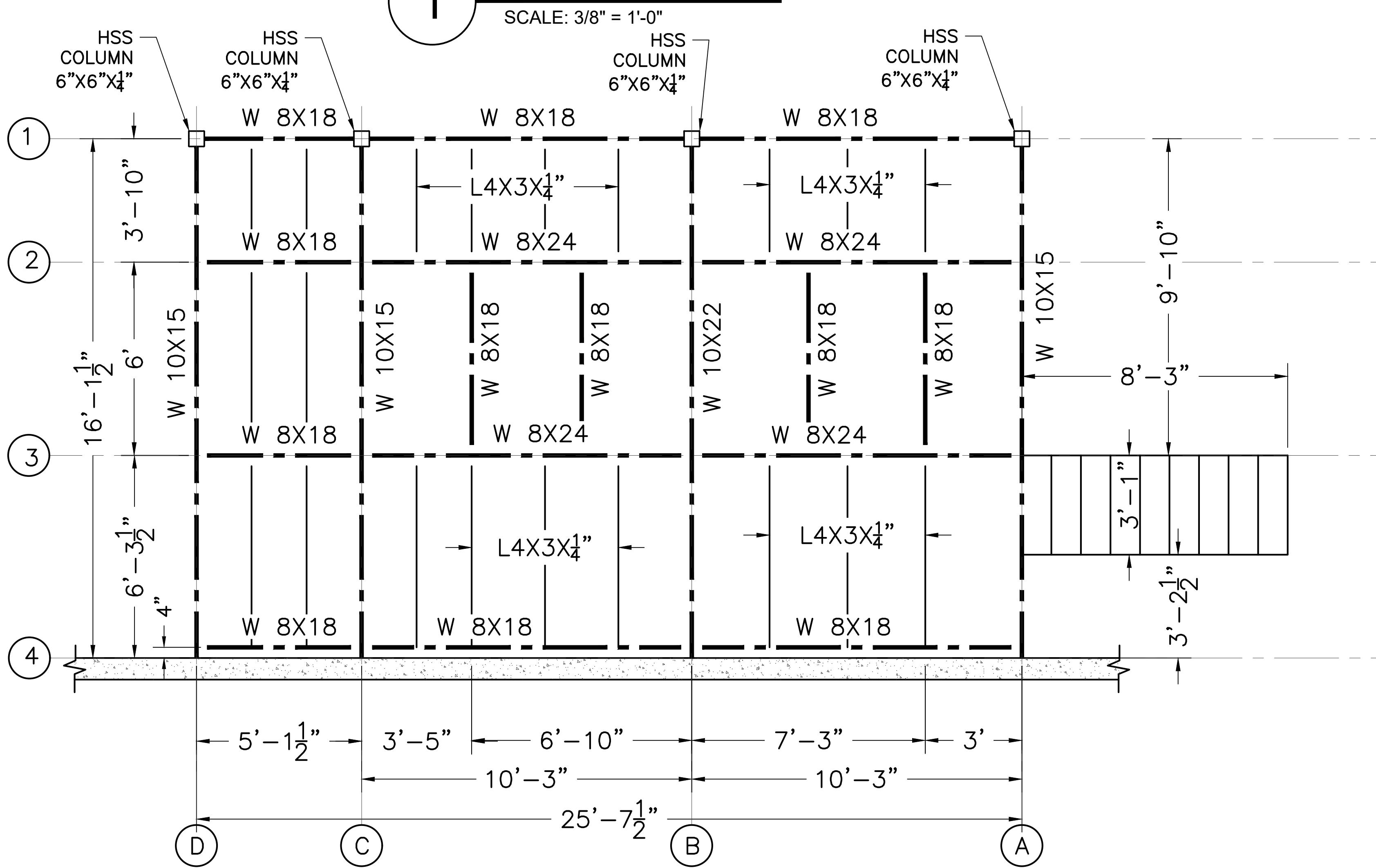
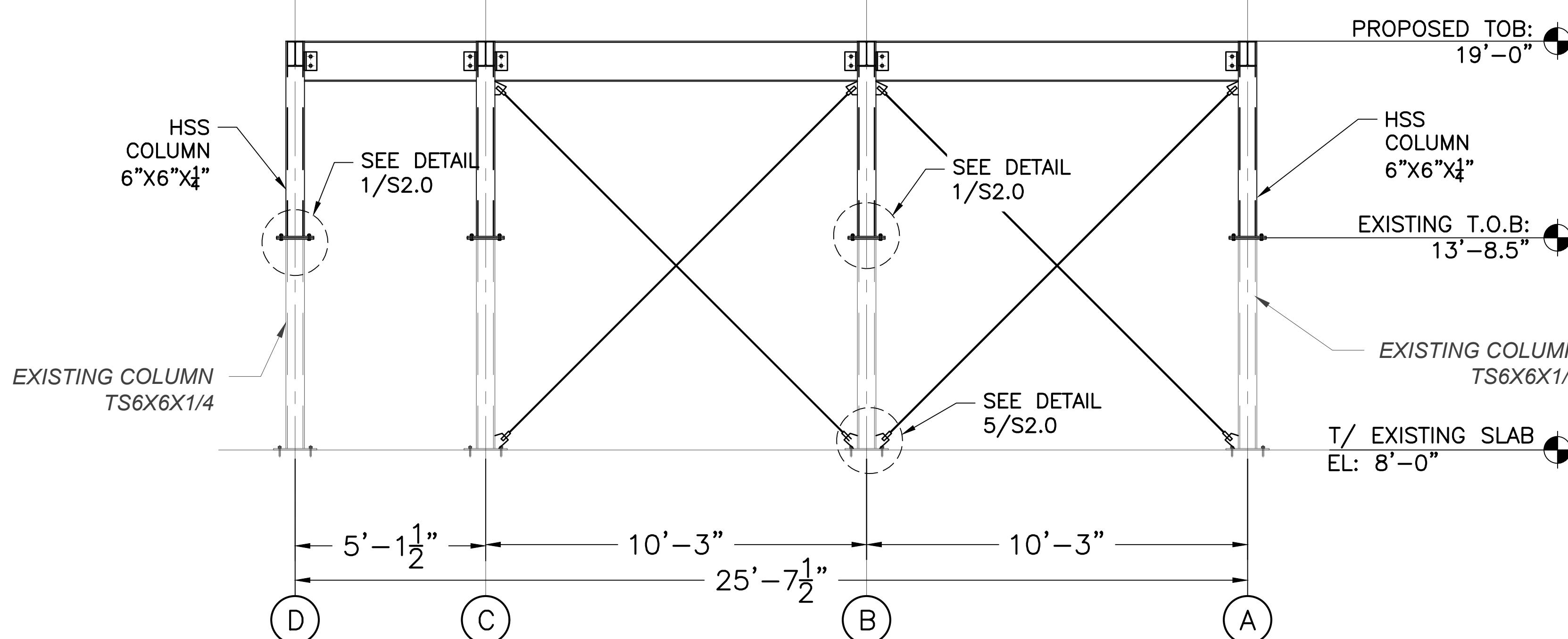
SCALE: 3/4"=1'-0"



2
S5.0

WALL SECTION @ TOWER

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

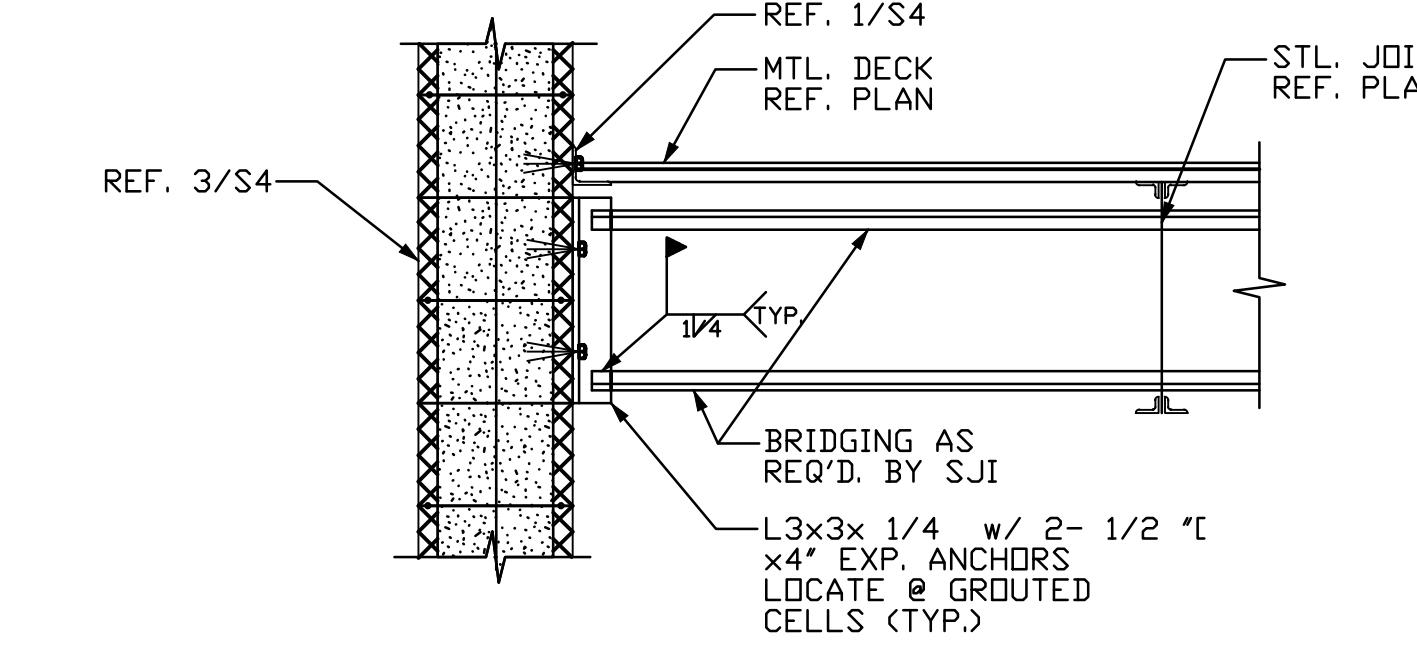
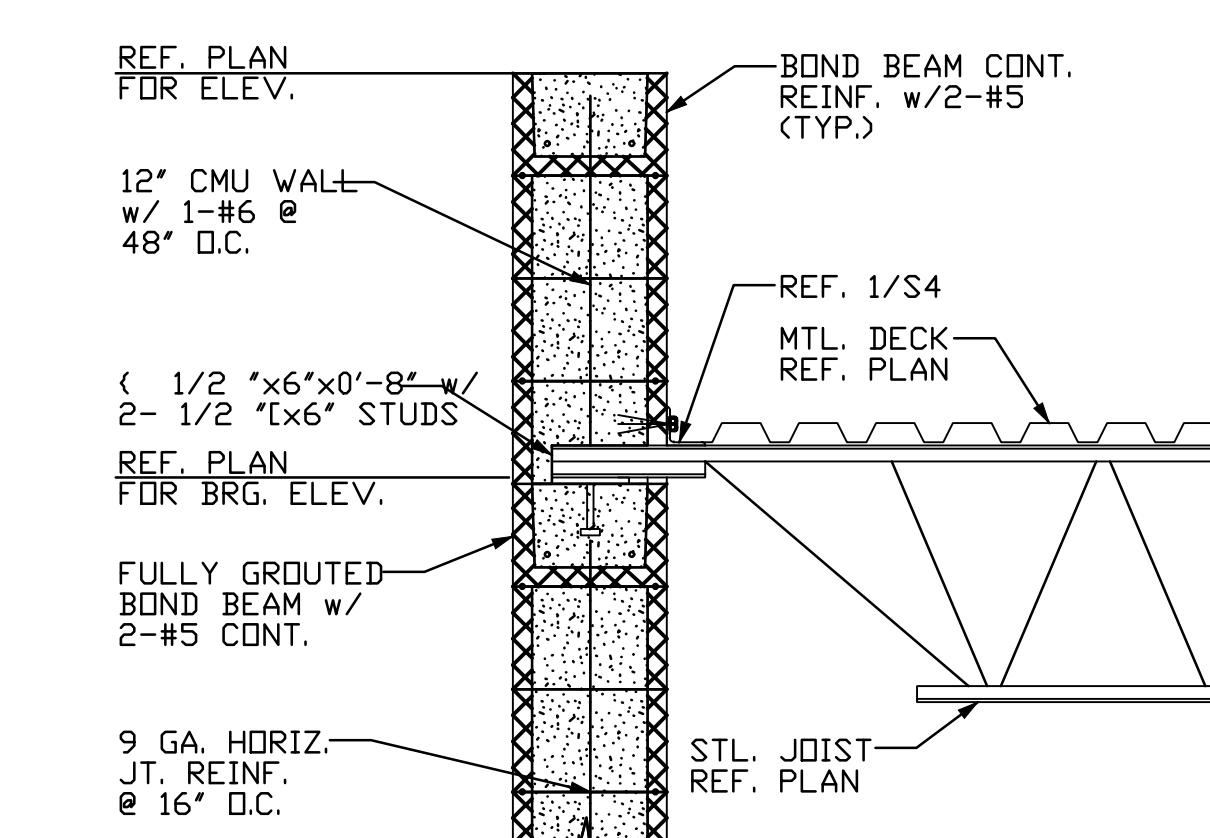
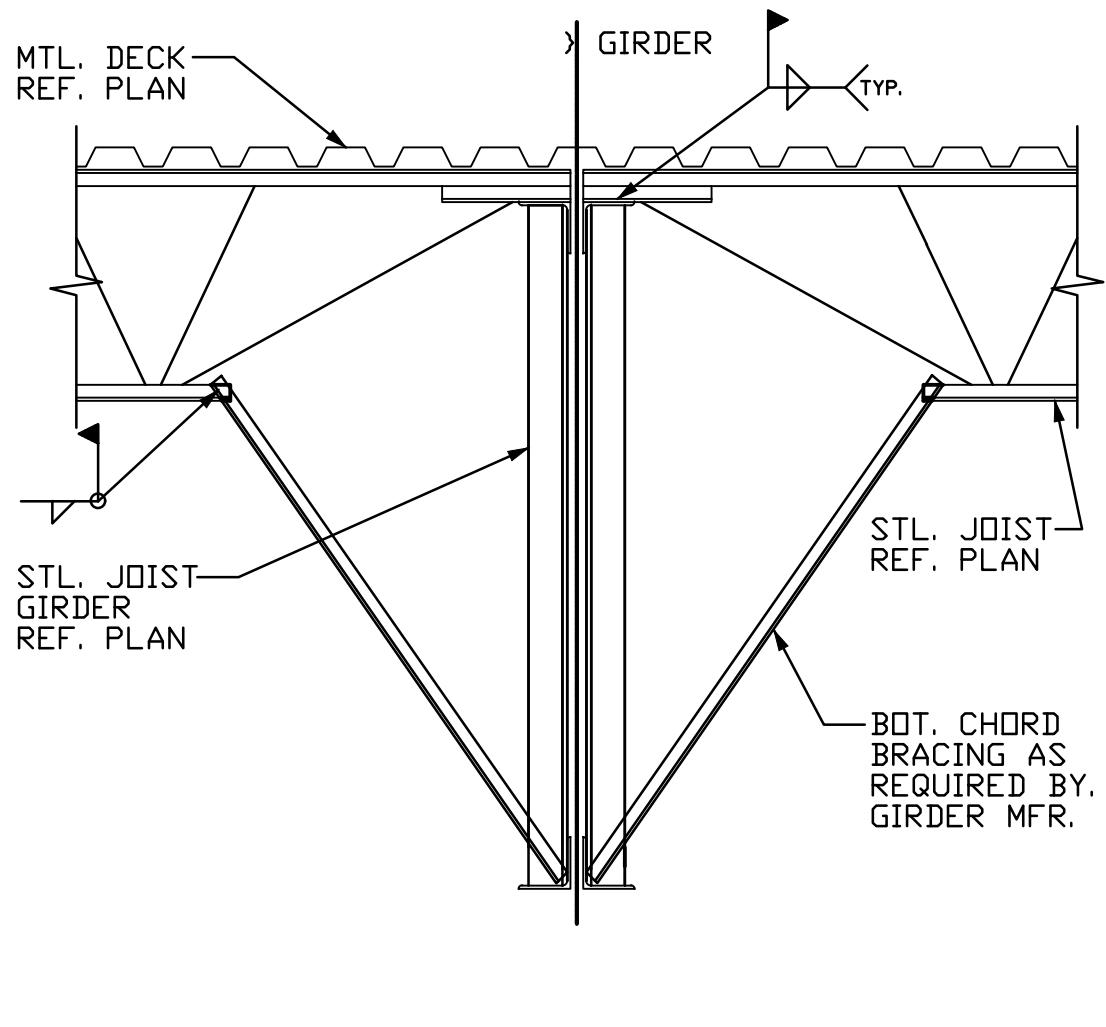
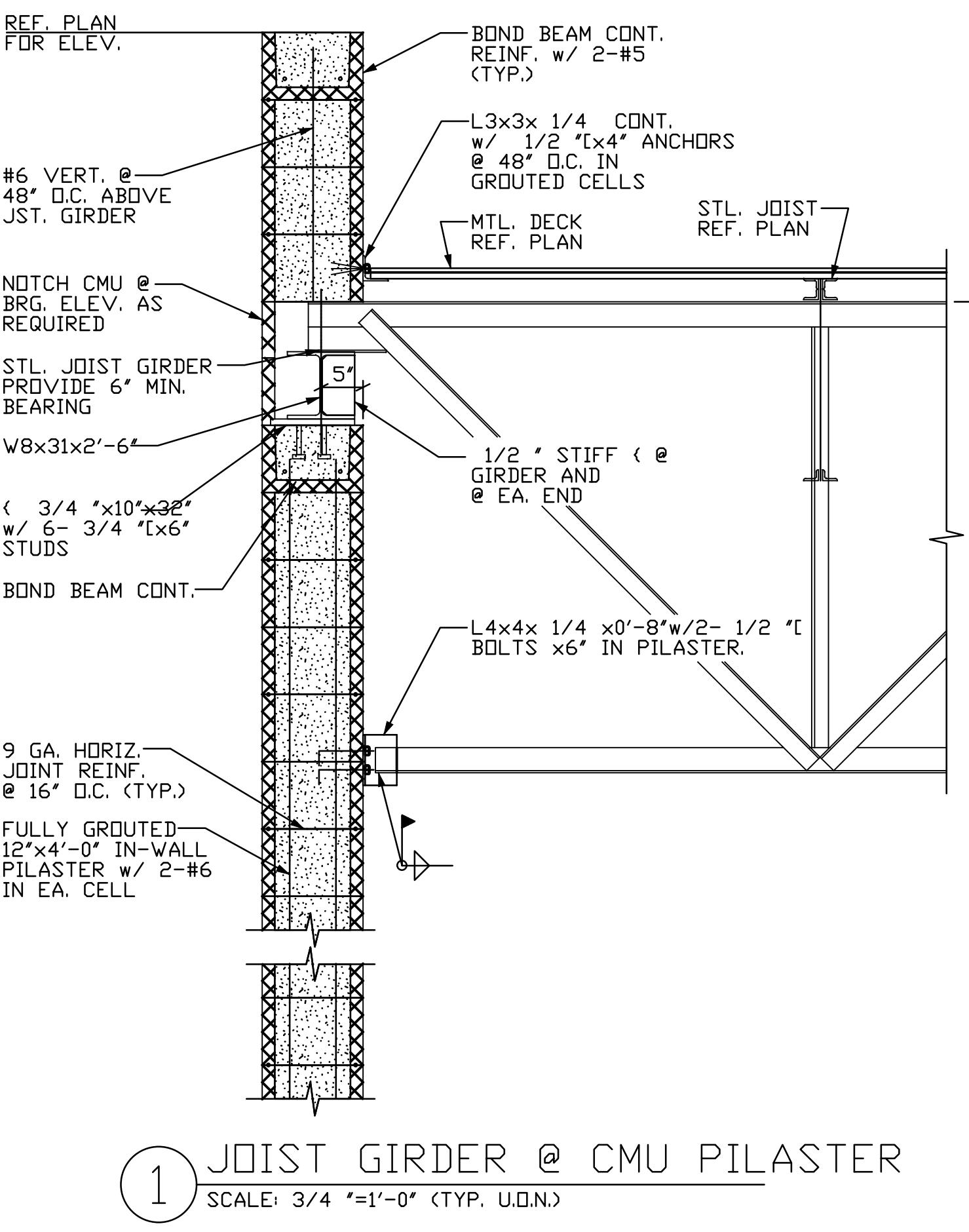


2 **FRAMING PLAN**

SCALE: 3/8" = 1'-0"

3 **GRADE LINE D**

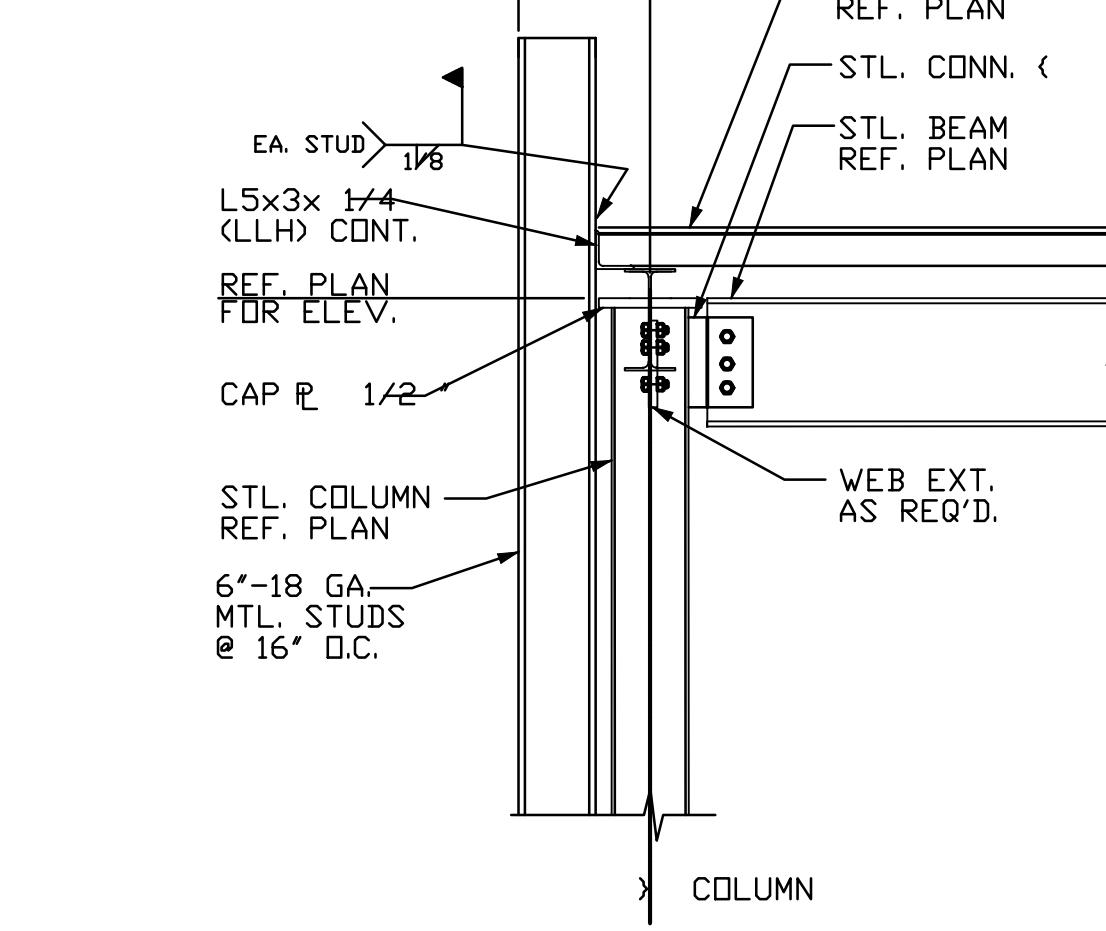
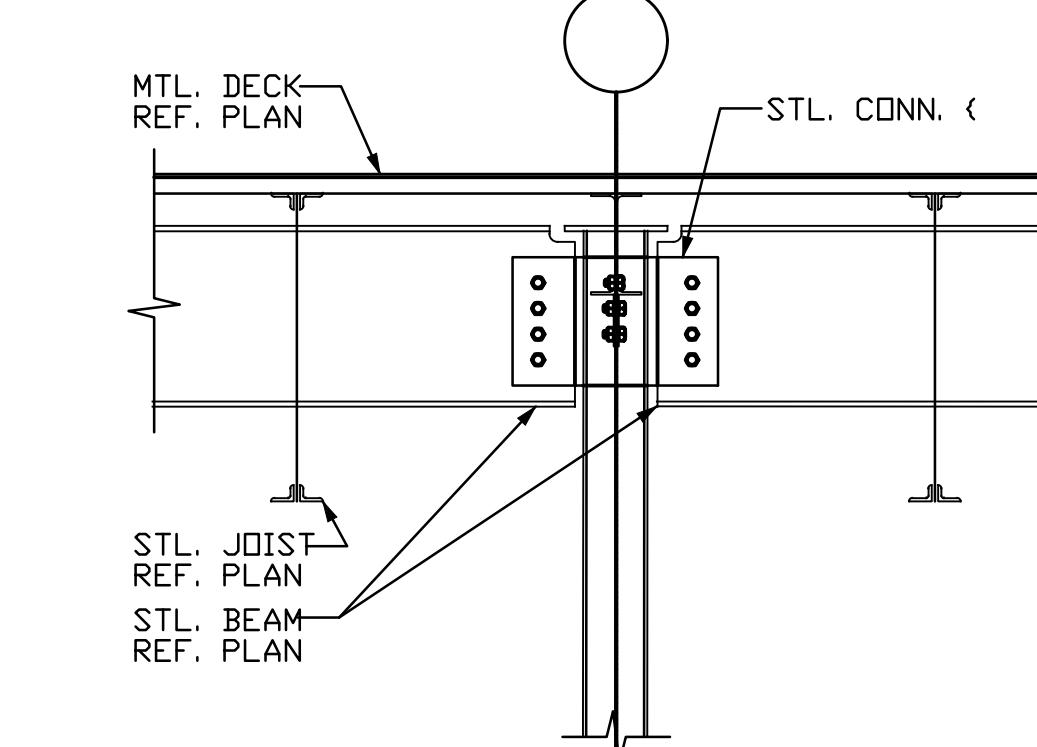
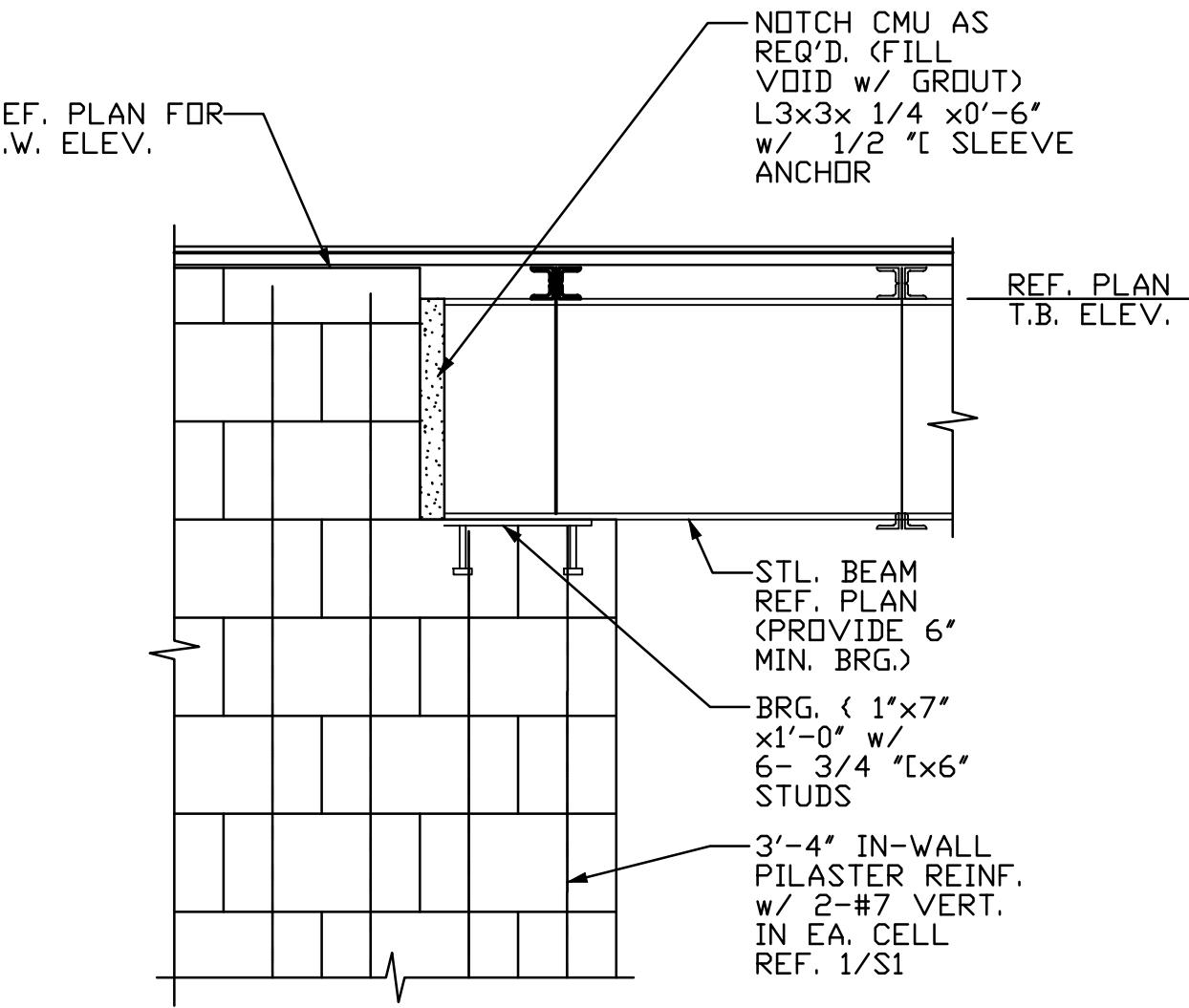
SCALE: 3/8" = 1'-0"



1 JOIST/JOIST GIRDER CONNECTION

1 REAR WALL SECTION

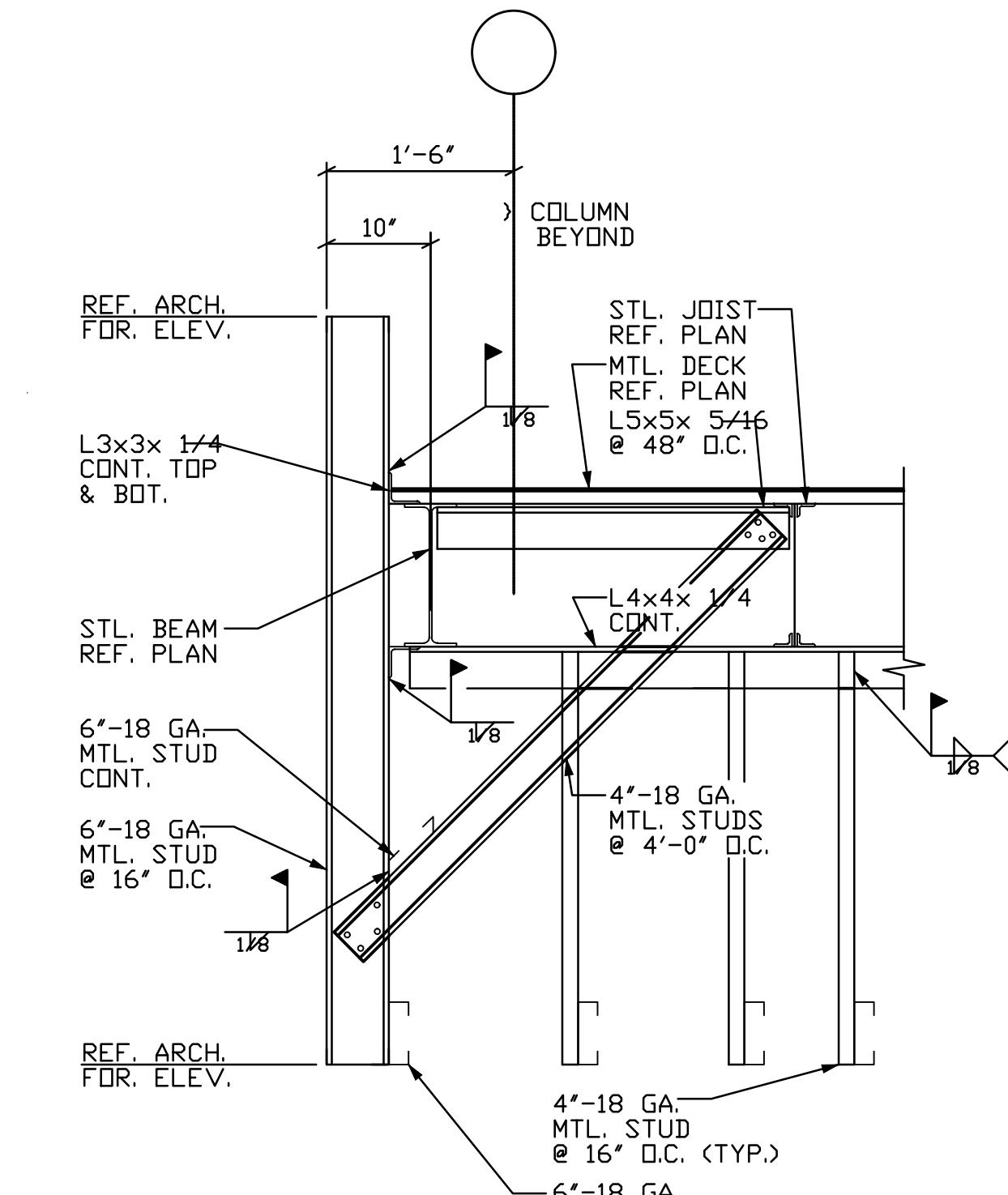
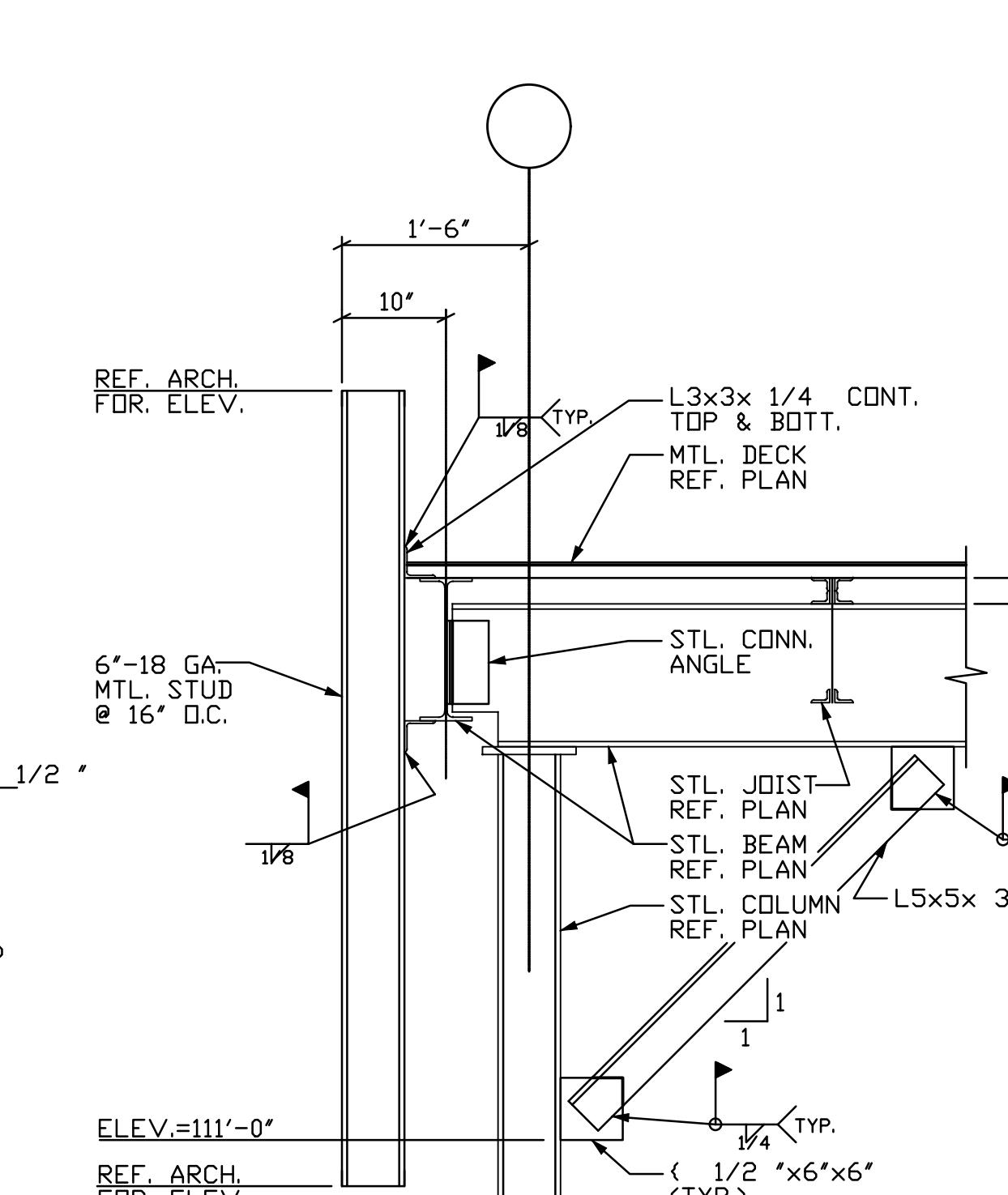
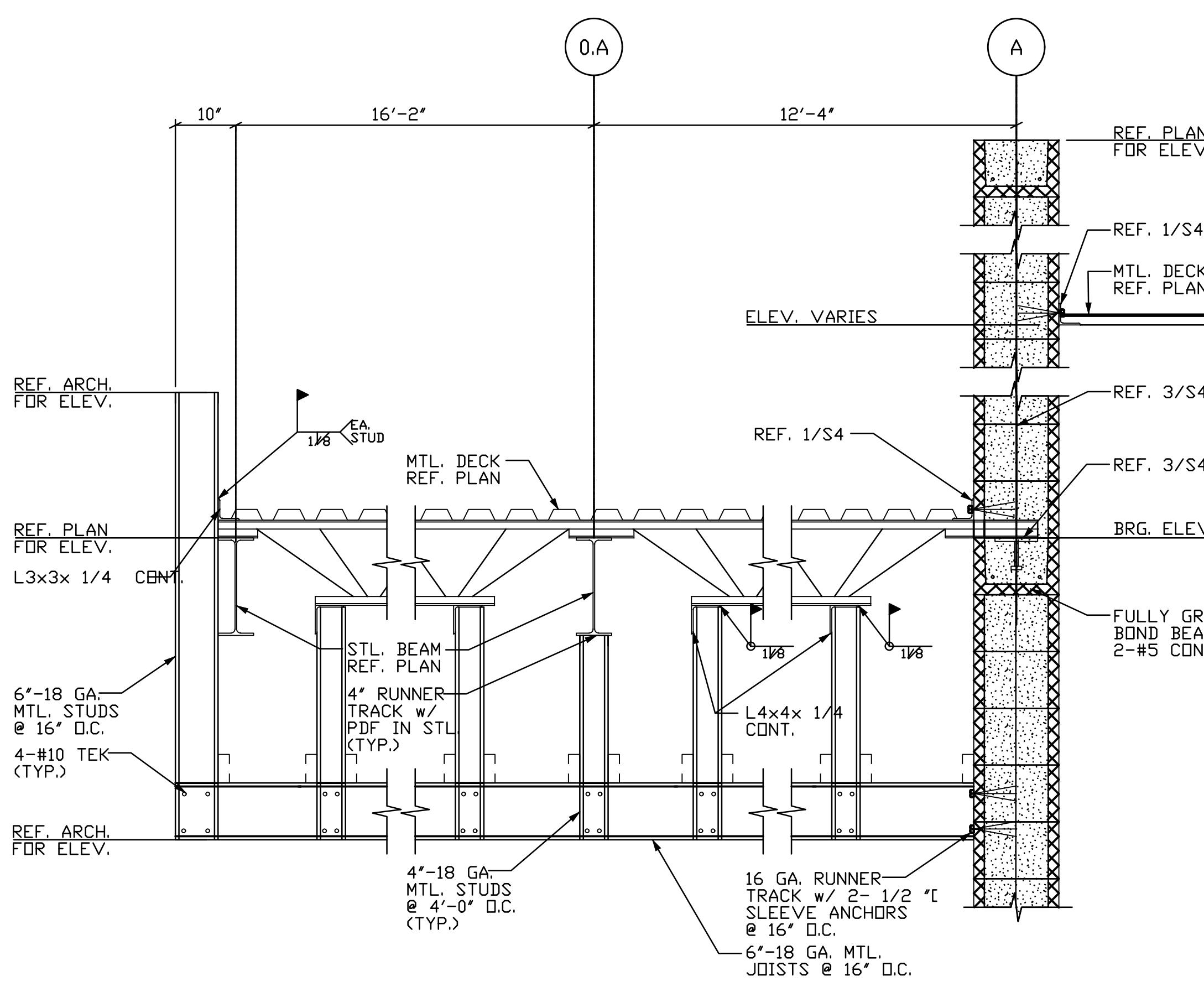
1 SIDE WALL SECTION



1 BEAM @ CMU PILASTER

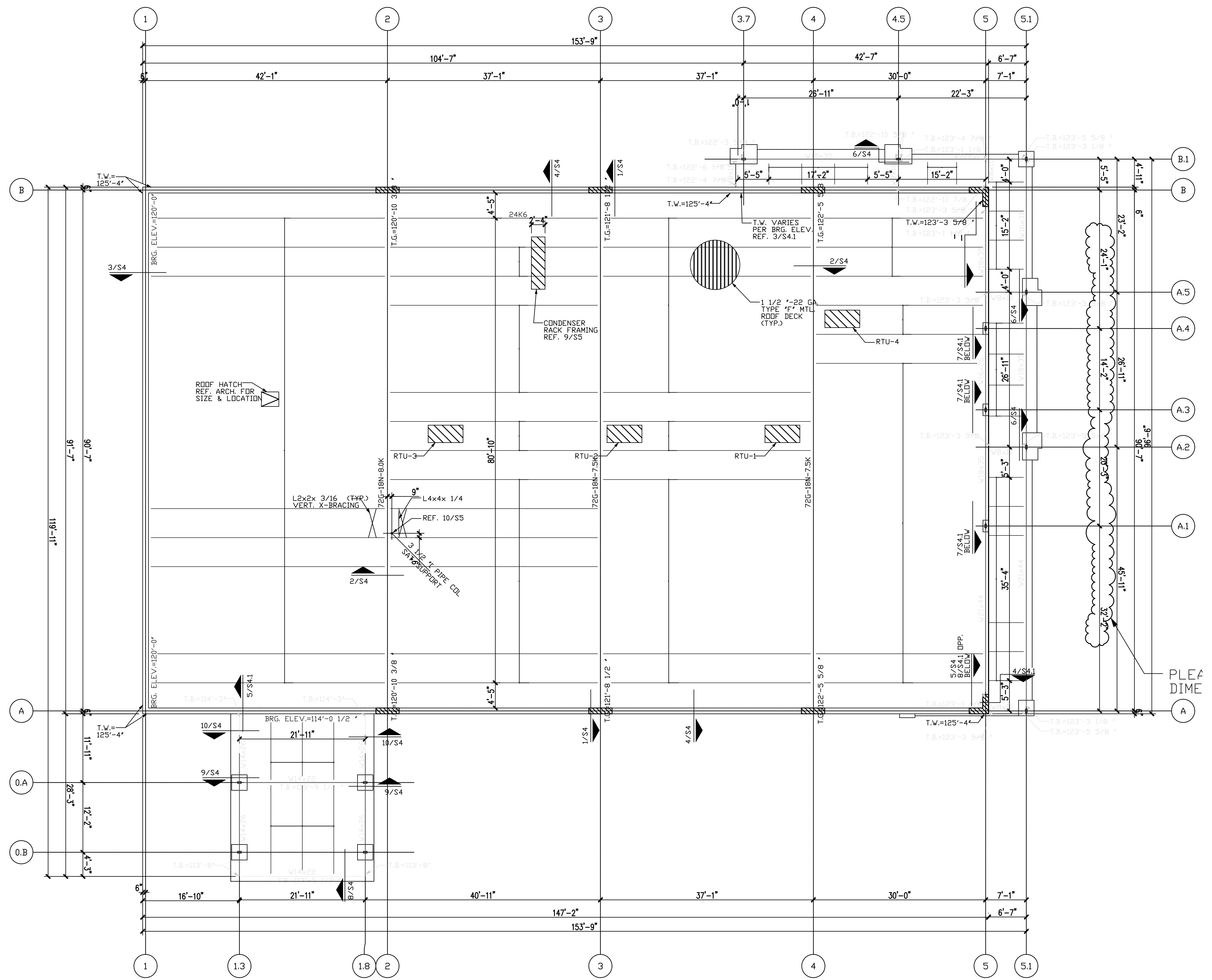
6 BEAM/COLUMN CONNECTION @ CANOPY

7 BEAM/COLUMN CONNECTION @ CANOPY



9 BEAM/COLUMN CONN. @ DRIVE-THRU CANOPY

10 SECTION @ DRIVE-THRU CANOPY



ROOF FRAMING PLAN

LEGEND:

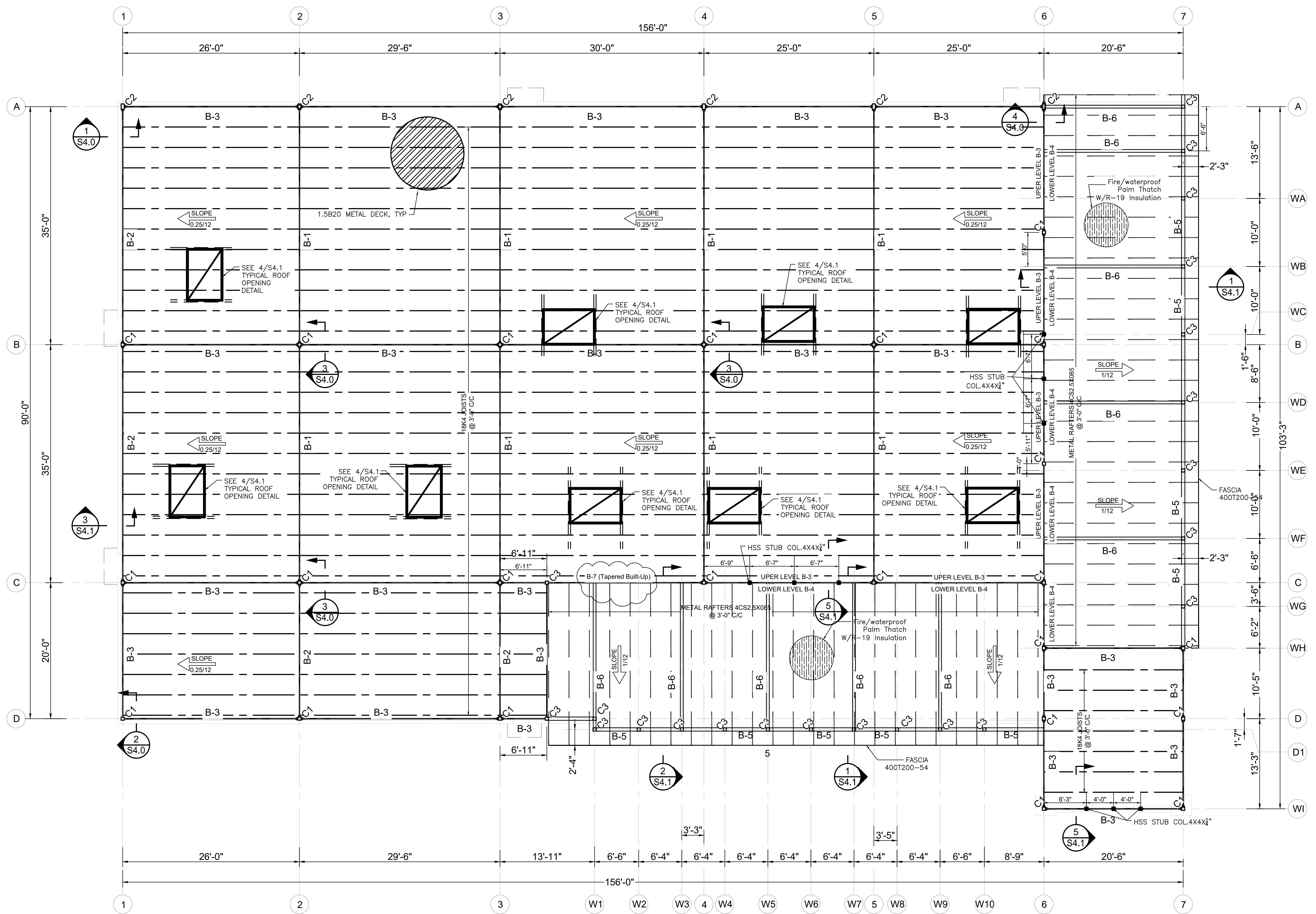
► MOMENT CONNECTION

18K4 JOISTS @ 3'-0" C/C TYP. AS SHOWN

METAL RAFTERS 4CS2.5X085
@ 3'-0" C/C

NOTE:
* USE 600S200-54P STUD @ 16"
C/C AS METAL STUD WALL U.N.O.
ALSO REFER ARCH.DRGS. FOR
MORE DETAILS.

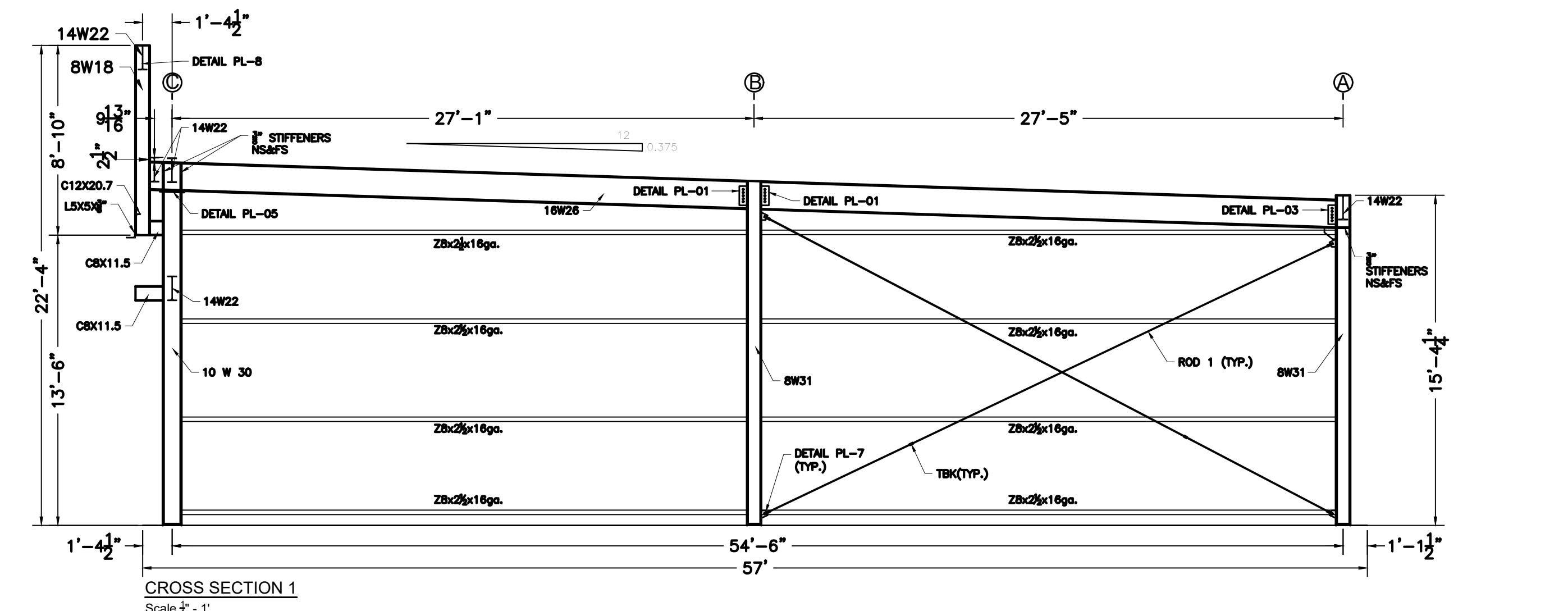
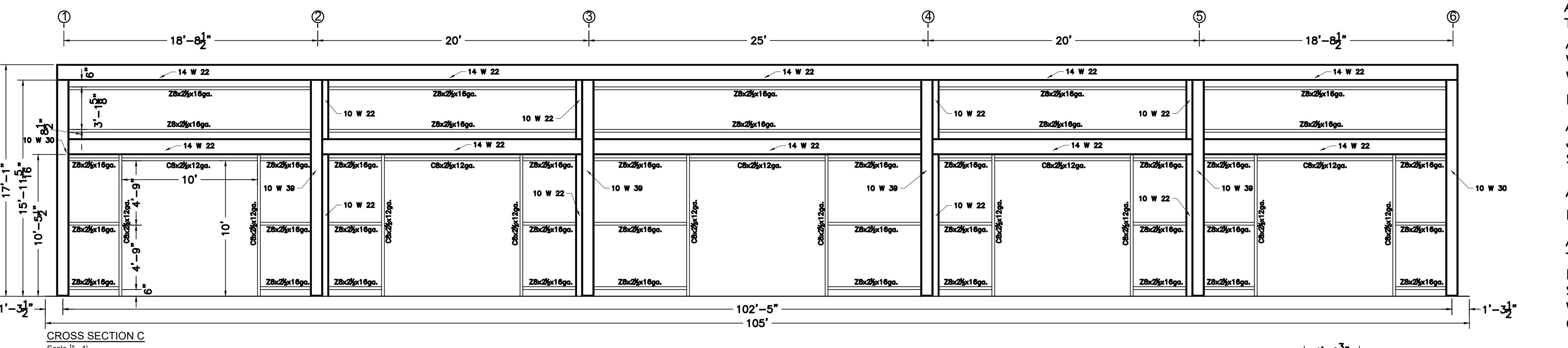
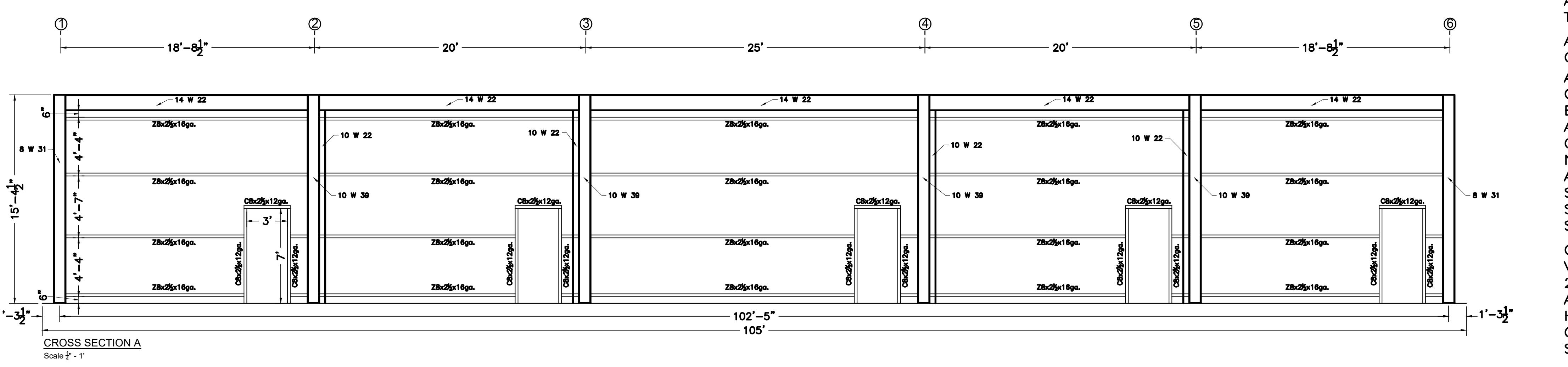
NOTE:
FOR CONNECTION DETAILS SEE
S4.0 & S4.1.



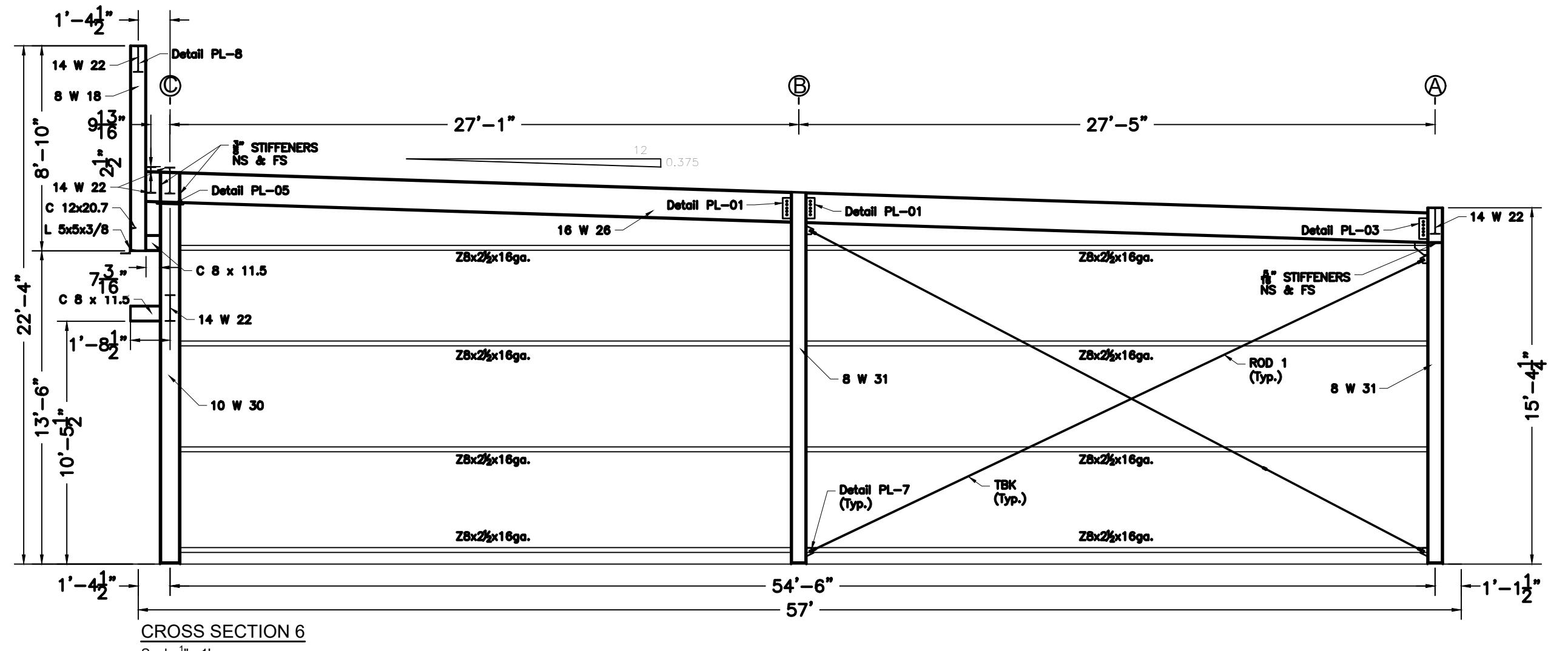
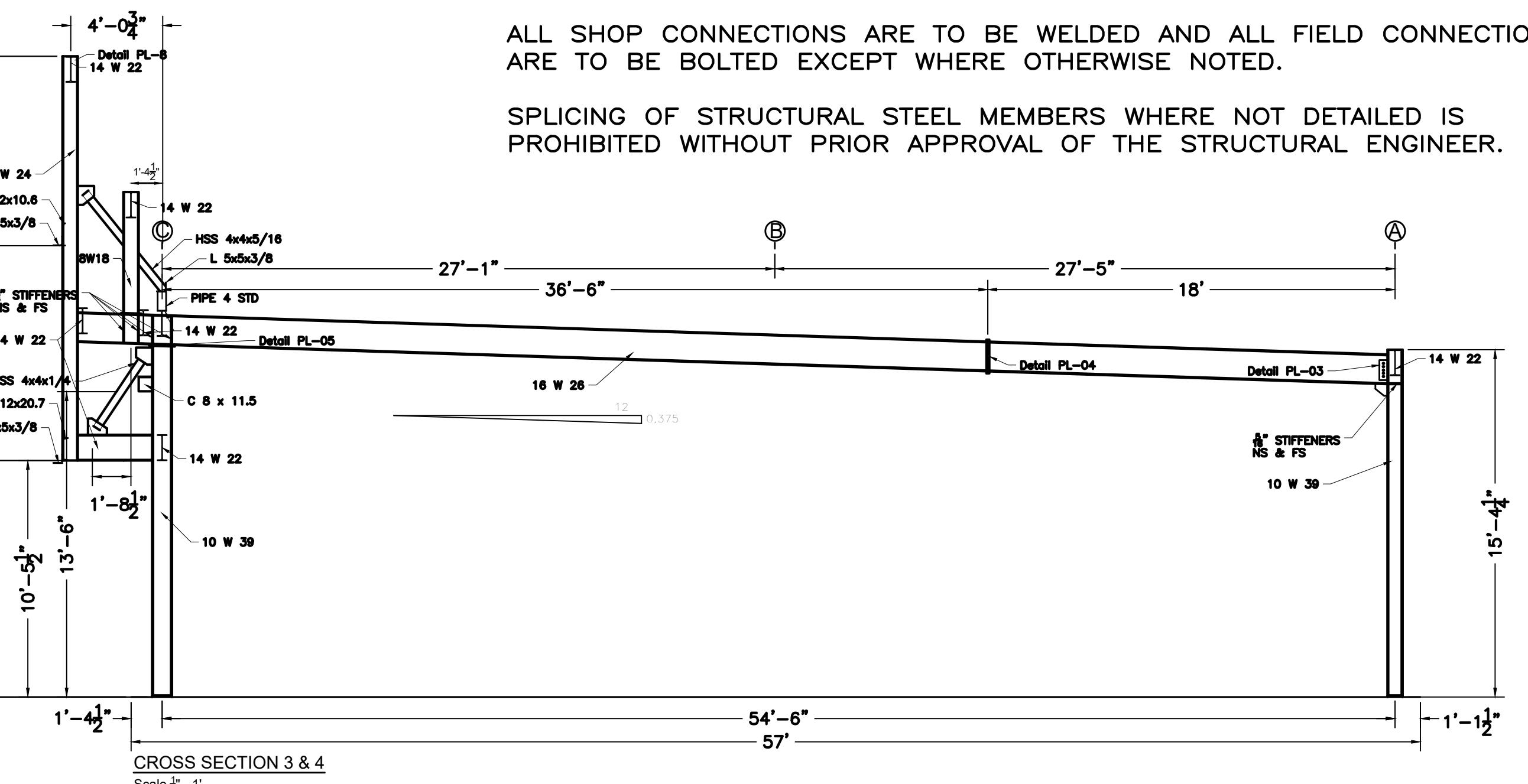
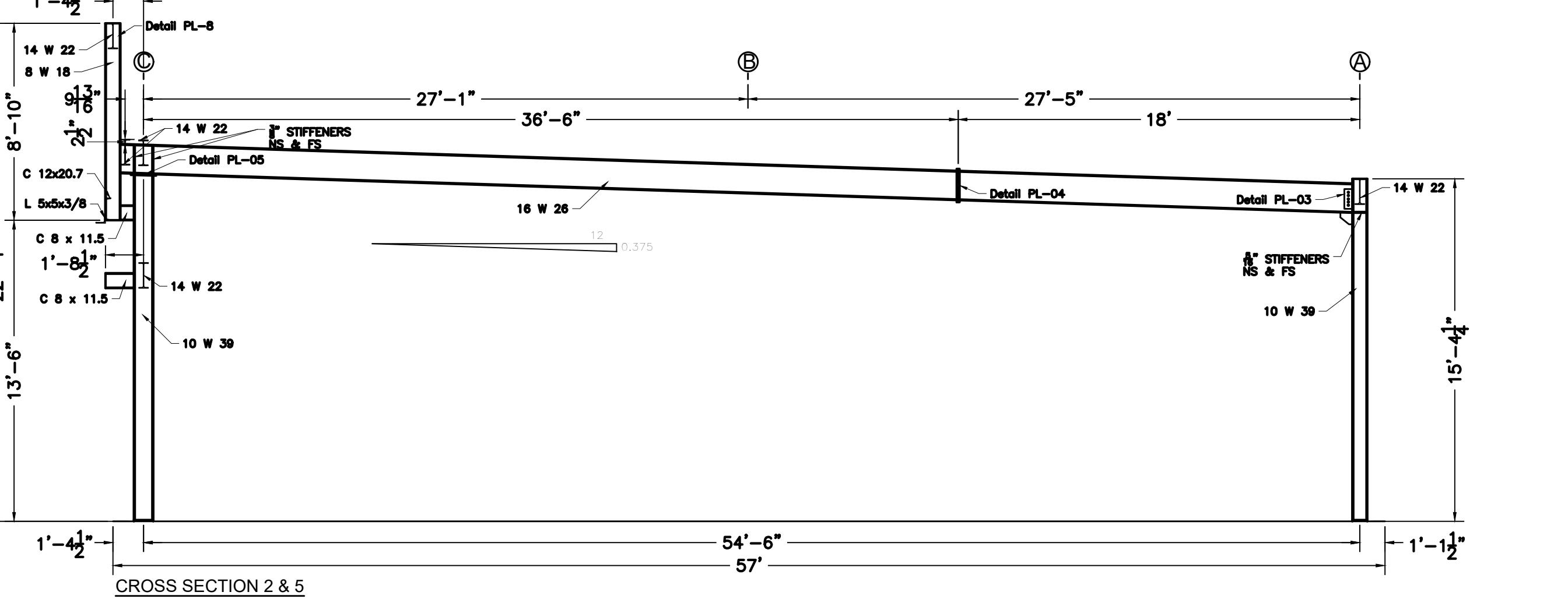
1 FRAMING PLAN

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

BEAM & COLUMN SCHEDULE		
BEAM/COL.	MEMBER SIZE	MATERIAL/TYPE
B-1	W21x44	STEEL
B-2	W16x31	STEEL
B-3	W16x26	STEEL
B-4	W10x12	STEEL
B-5	6CS4X085	STEEL
B-6	4CS2.5X085	STEEL
B-7 (Tapered)	Web 28/22" Th.1/2" Flange 6" Th.1/2"	STEEL
C1	HSS 6x6x3/8	STEEL/SQR.
C2	HSS 10x6x3/8	STEEL/RECT.
C3	HSS 4x4x1/4	STEEL/SQR.



DESIGN CRITERIA
IBC-2018
RISK CATEGORY II
WIND LOAD (ROOF)
139 mph
3 sec. GUST
EXPOSURE B
LOADS
DL= 5.0 psf
LL= 20.0 psf
LL Conc. = 300.0 Lb.



ALL STRUCTURAL STEEL ROLLED SHAPES AND PLATES SHALL CONFORM TO ASTM A992 (50 KSI) UNLESS NOTED OTHERWISE.
ALL PIPE SHALL CONFORM TO ASTM A501 OR ASTM 153, TYPE E OR S. ALL TUBING SHALL CONFORM TO ASTM A500, GRADE B.
ALL CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS SHALL CONFORM TO A325 AND SHALL BE DESIGNED AS BEARING-TYPE CONNECTIONS TIGHTENED TO A SNUG TIGHT CONDITION AS PER THE REQUIREMENT OF THE AISC MANUAL OF STEEL 13th EDITION CONSTRUCTION. THE MIXED USE OF A307 AND A325 ON THE JOB WILL NOT BE PERMITTED. WASHERS OF A325 MATERIAL SHALL BE USED ON ALL A325 CONNECTIONS. CONNECTIONS USING A307 BOLTS WITH SLOTTED OR OVERSIZED HOLES SHALL USE WASHERS. THE USE OF SHIM PLATES IS NOT ALLOWED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.

GROUT UNDER COLUMN BASE PLATES SHALL BE OF A NON-SHRINK VARIETY WITH A MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI AT 28 DAYS. 100% OF VOID UNDER ALL BASE PLATES IS TO BE GROUTED. ALL BASE PLATES WITH A DIMENSION GREATER THAN 24" ARE TO HAVE TWO 1" DIAMETER GROUT HOLES. IF THE SPACE UNDER A COLUMN BASE PLATE IS LESS THAN 1/4", THEN A PRESSURE INJECTION SYSTEM SHALL BE USED.

SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SLEEVES, CURBS, DEPRESSIONS, INSERTS, ETC. THAT ARE NOT SHOWN. ALL STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARD OF AISC.

ALL WELDING SHALL CONFORM TO THE STANDARD OF THE AMERICAN WELDING SOCIETY AND SHALL BE PERFORMED BY CERTIFIED WELDERS WHO ARE CERTIFIED FOR THE POSITION OF WELD WHICH THEY ARE PERFORMING. ALL WELDS SHALL BE WITH 70 KSI RODS.

ALL FILLET WELDS SHALL BE A MINIMUM AS REQUIRED BY AISC TABLE J2.4 BUT NOT LESS THAN 3/16" UNLESS OTHERWISE NOTICED, WELDS SHALL BE WELDED ALL AROUND ON ALL ACCESSIBLE SIDES.

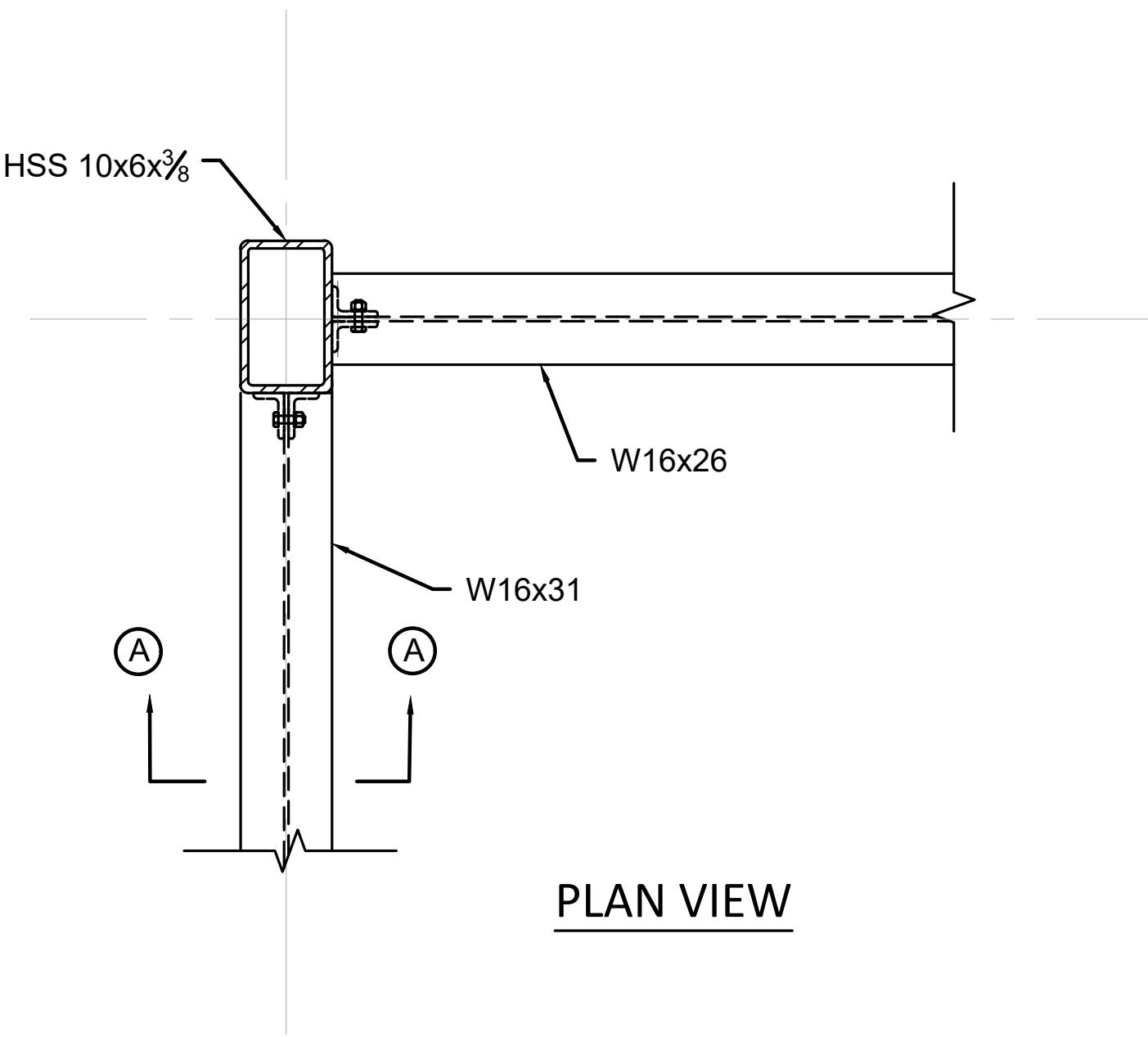
ALL GROOVE WELDS TO BE FULL PENETRATION, UNLESS OTHERWISE NOTED.

ALL FULL PENETRATION WELDS AT MOMENT CONNECTION SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LAB USING NON DESTRUCTIVE TESTING METHOD. FOR SHOP WELDS, CERTIFICATION SHALL BE SUBMITTED PRIOR TO SHIPPING TO JOB SITE. FOR FIELD WELDS, CERTIFICATION SHALL BE SUBMITTED PRIOR TO COVERING CONNECTIONS WITH ARCHITECTURAL FINISHES.

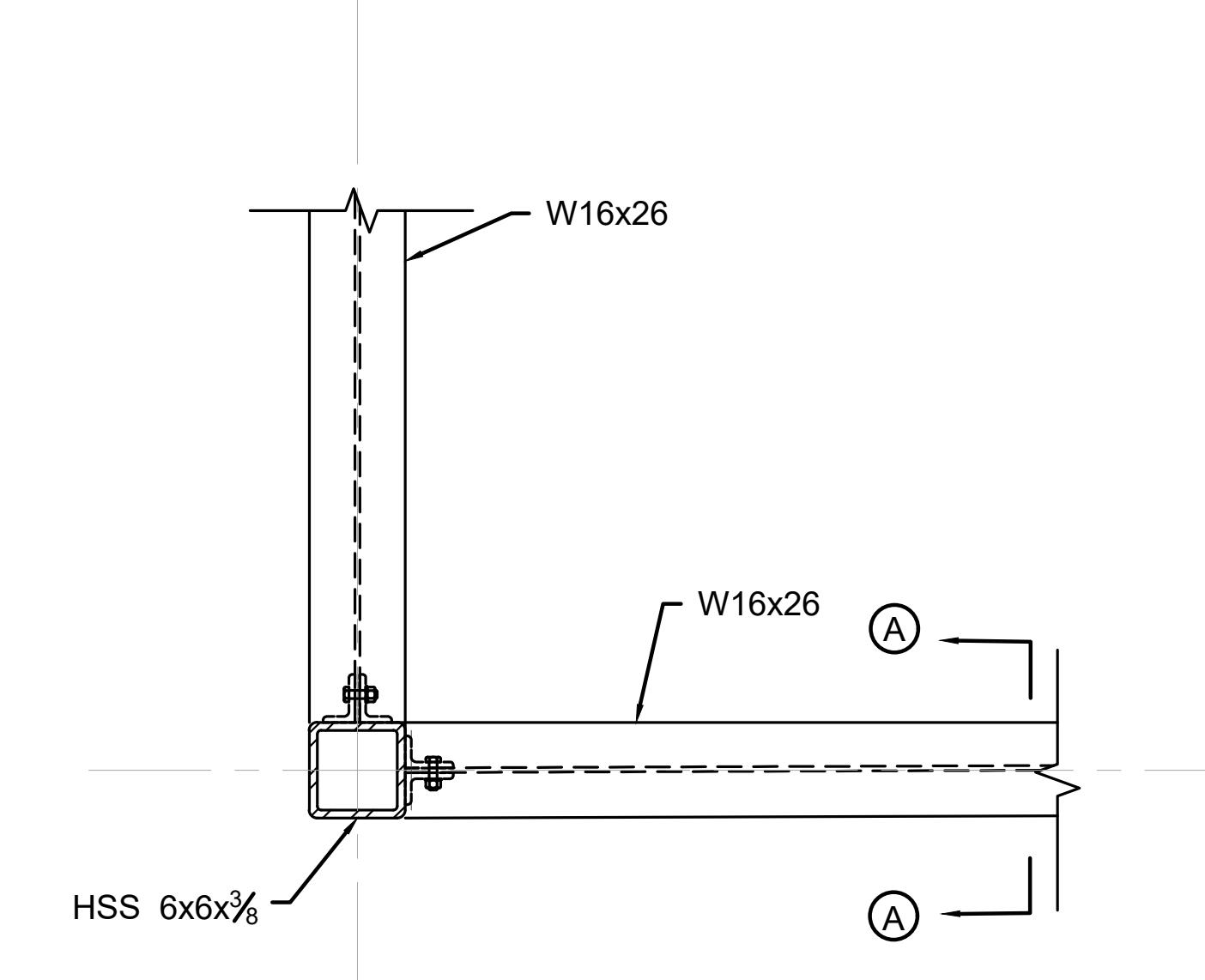
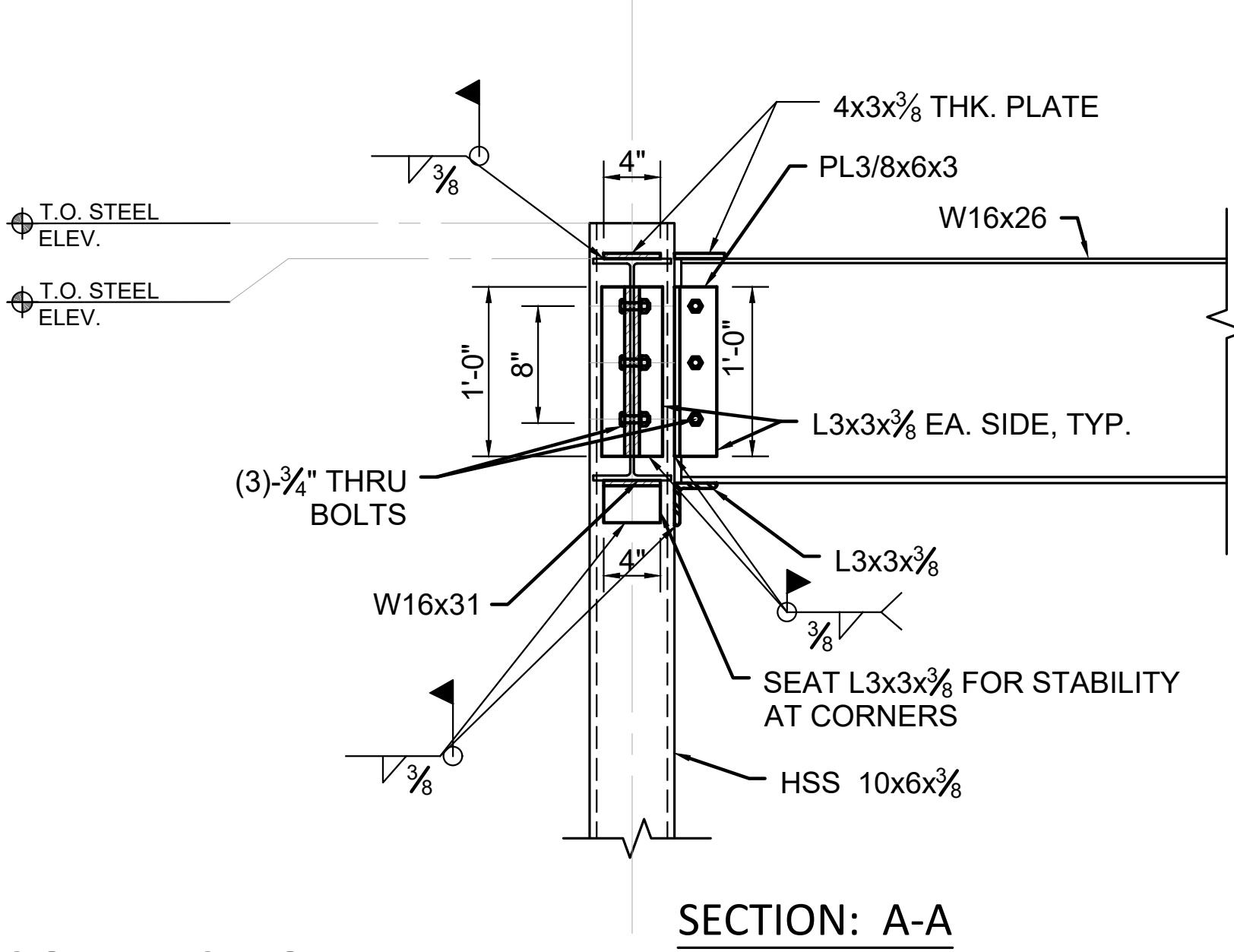
ALL SHOP CONNECTIONS ARE TO BE WELDED AND ALL FIELD CONNECTIONS ARE TO BE BOLTED EXCEPT WHERE OTHERWISE NOTED.

SPlicing OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

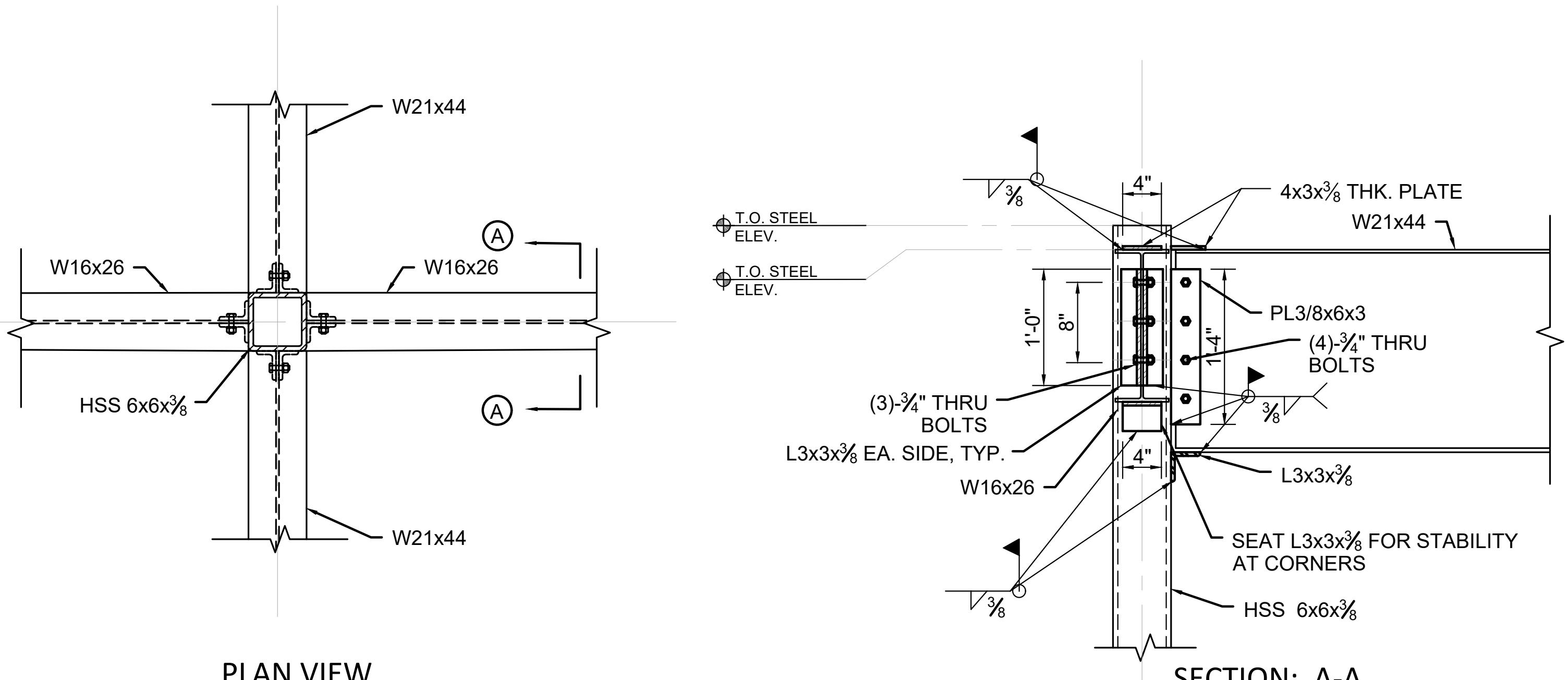
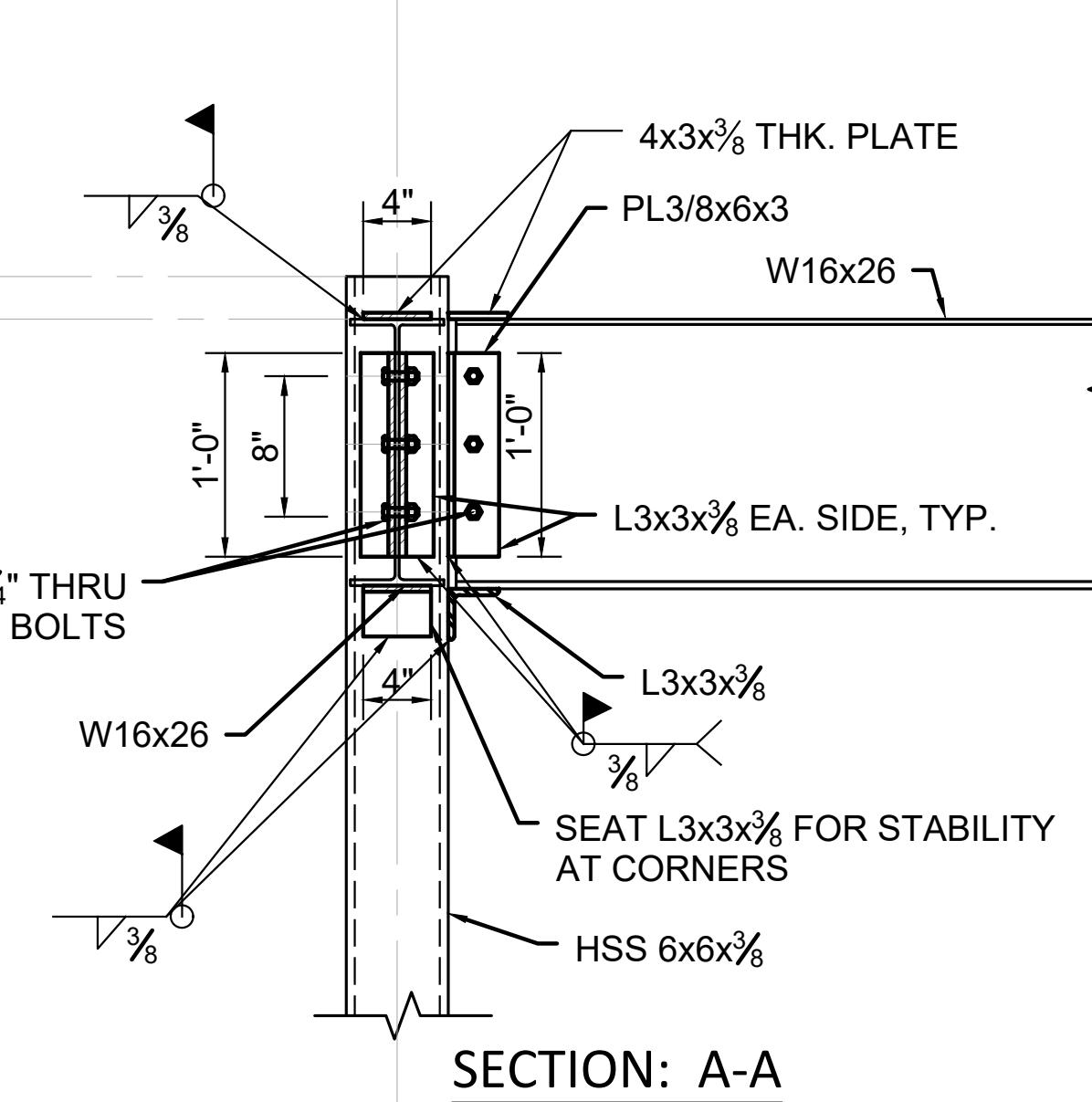
NOTE: METAL BUILDING TO BE MANUFACTURED ON SITE.



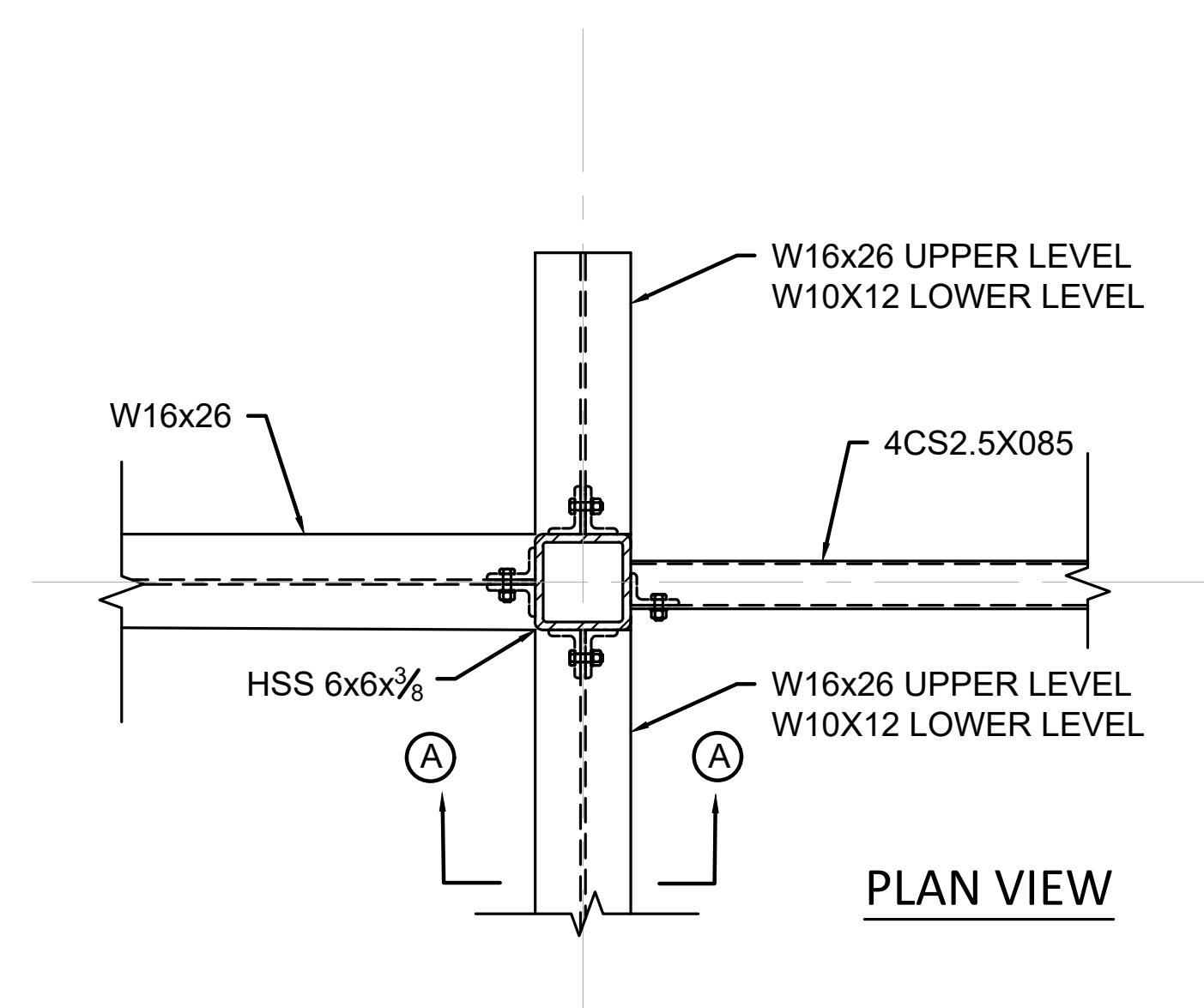
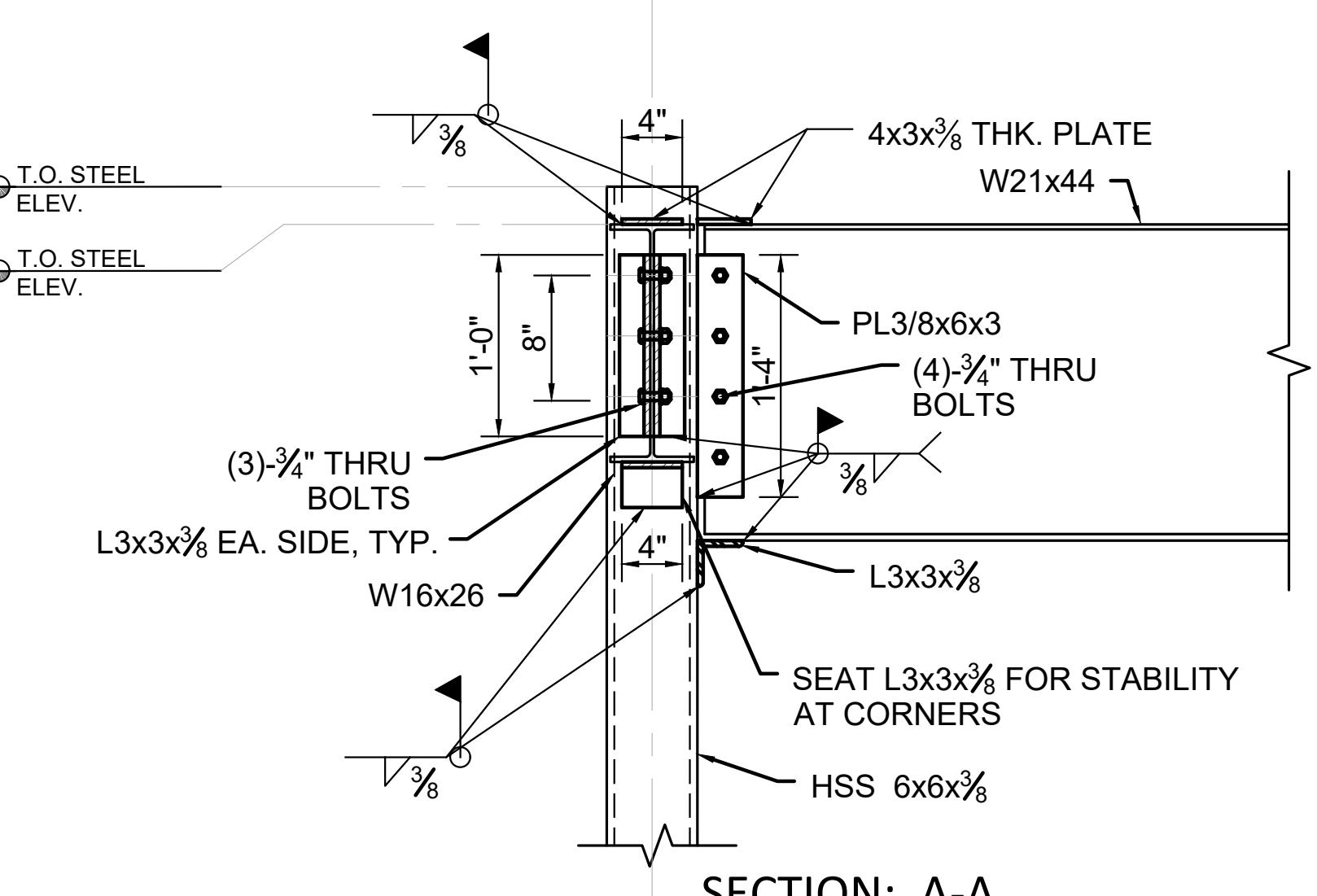
1 CORNER COLUMN CONNECTION
S4.0 SCALE: N.T.S.



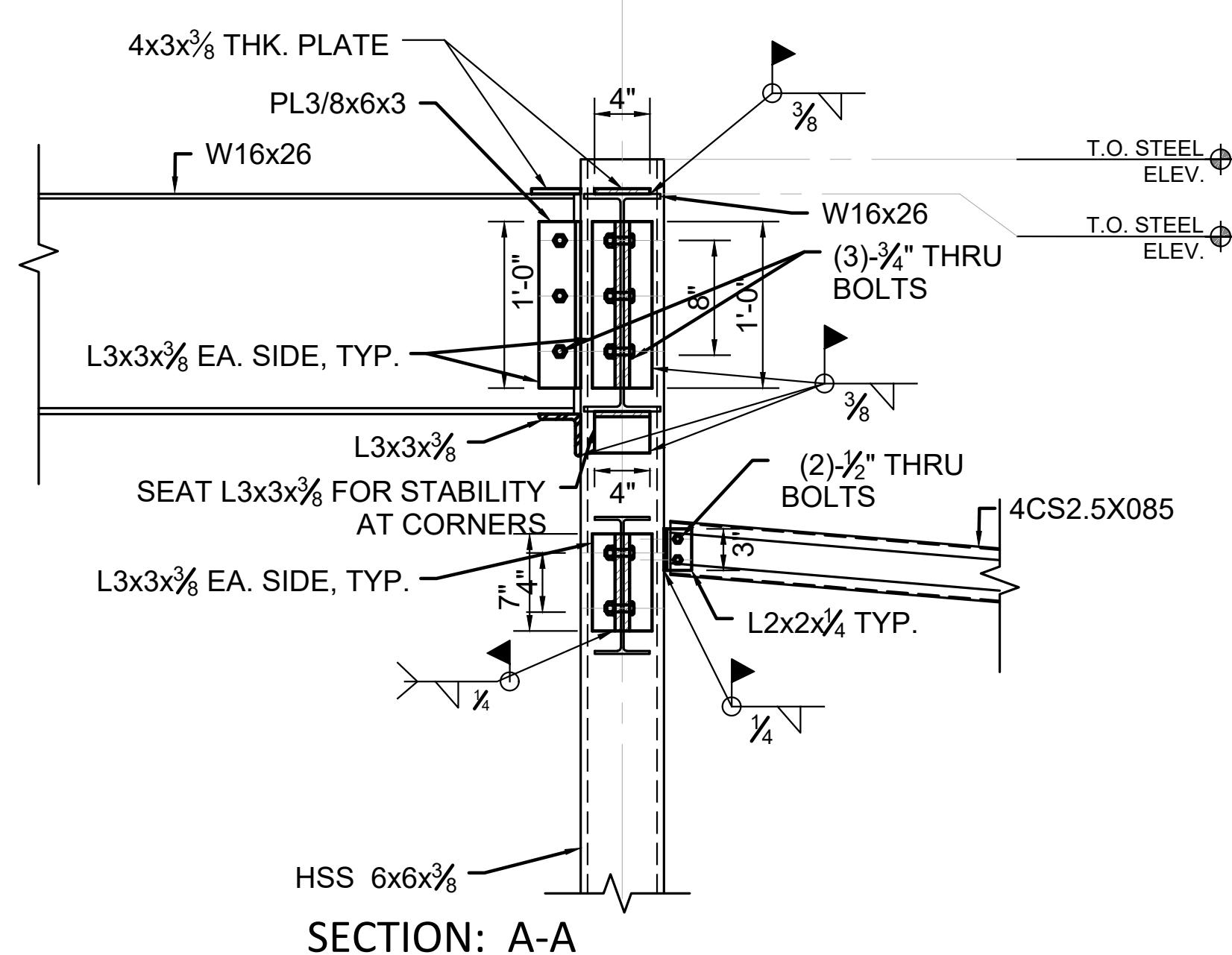
2 CORNER COLUMN CONNECTION
S4.0 SCALE: N.T.S.

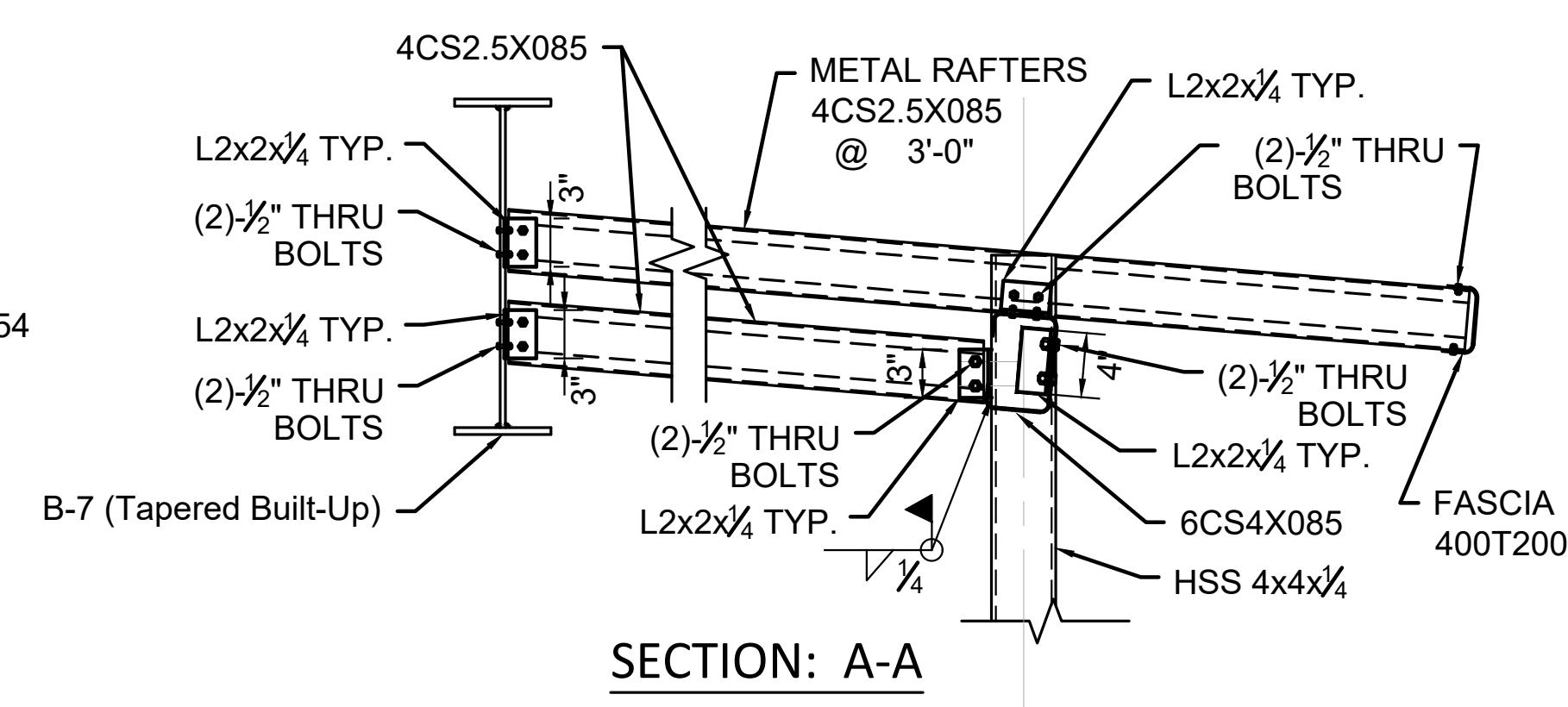
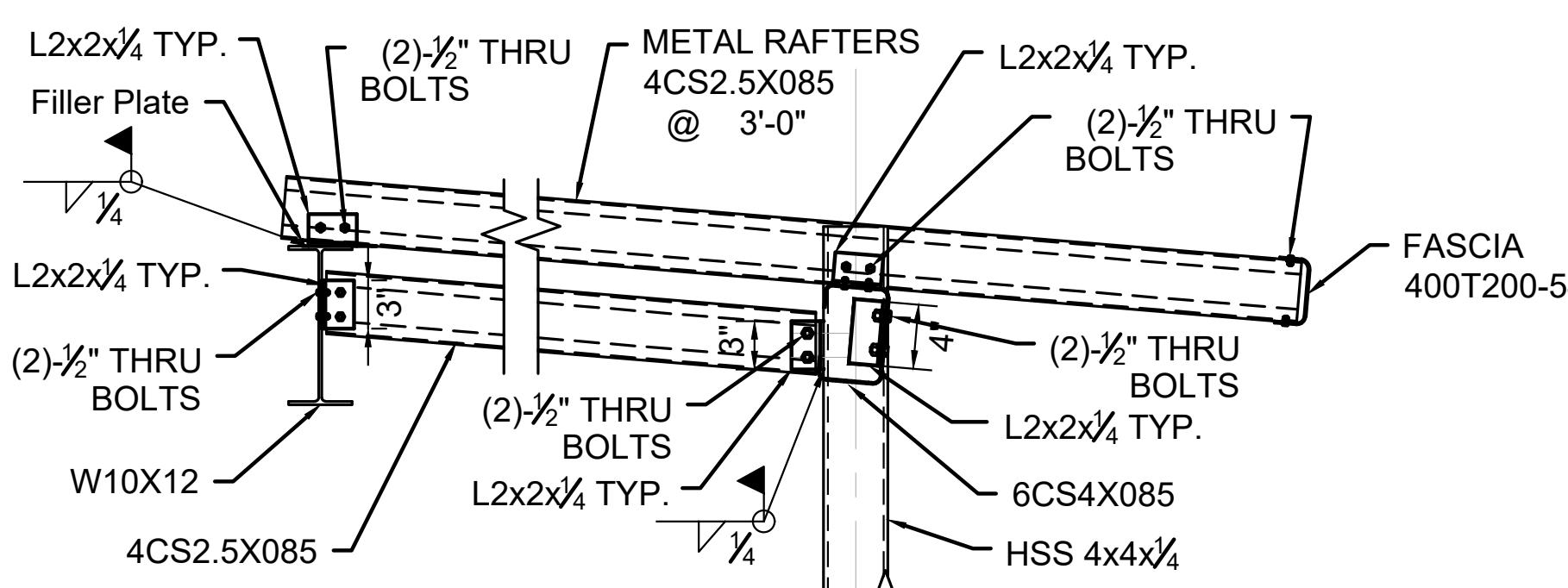
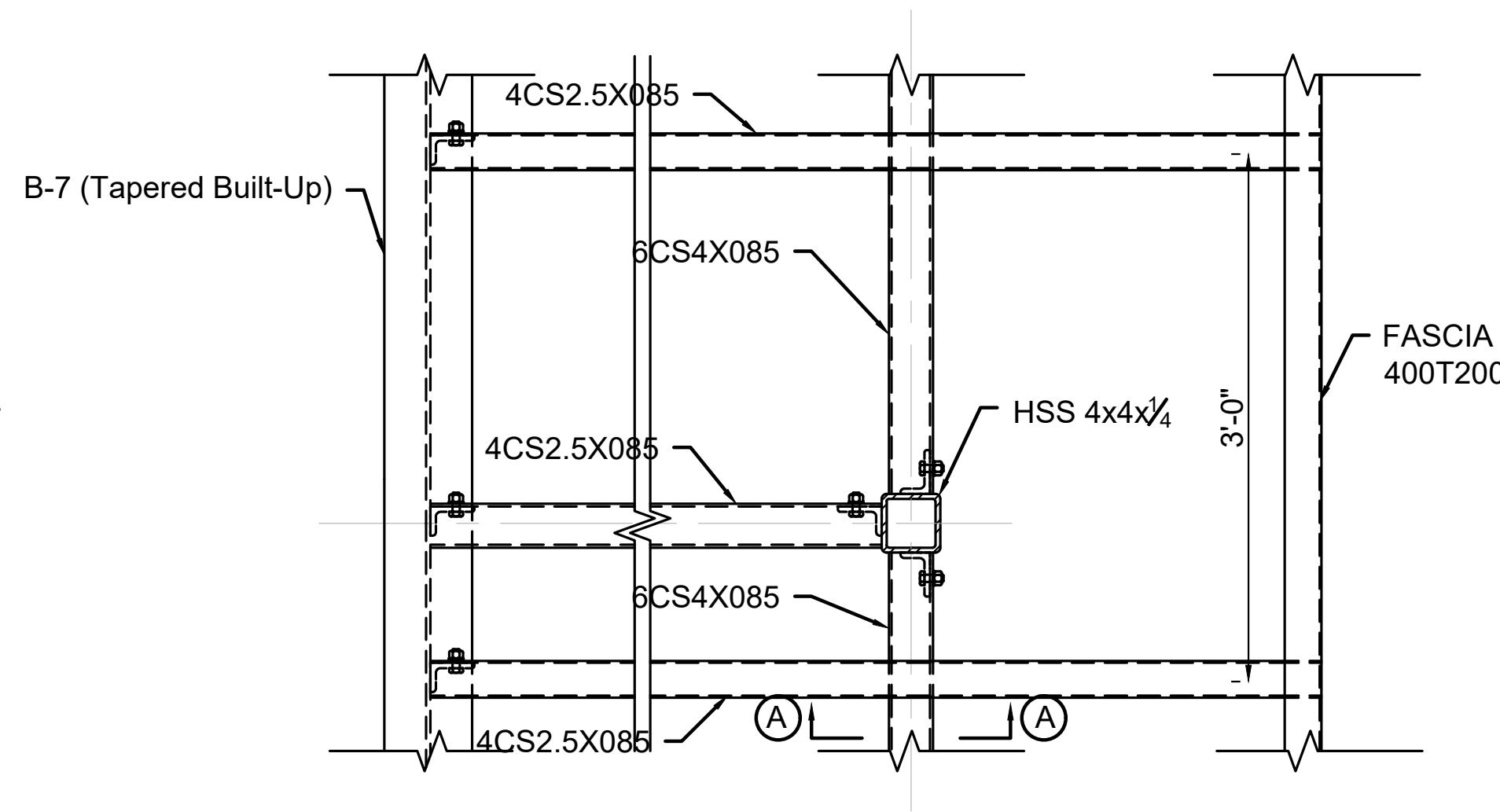
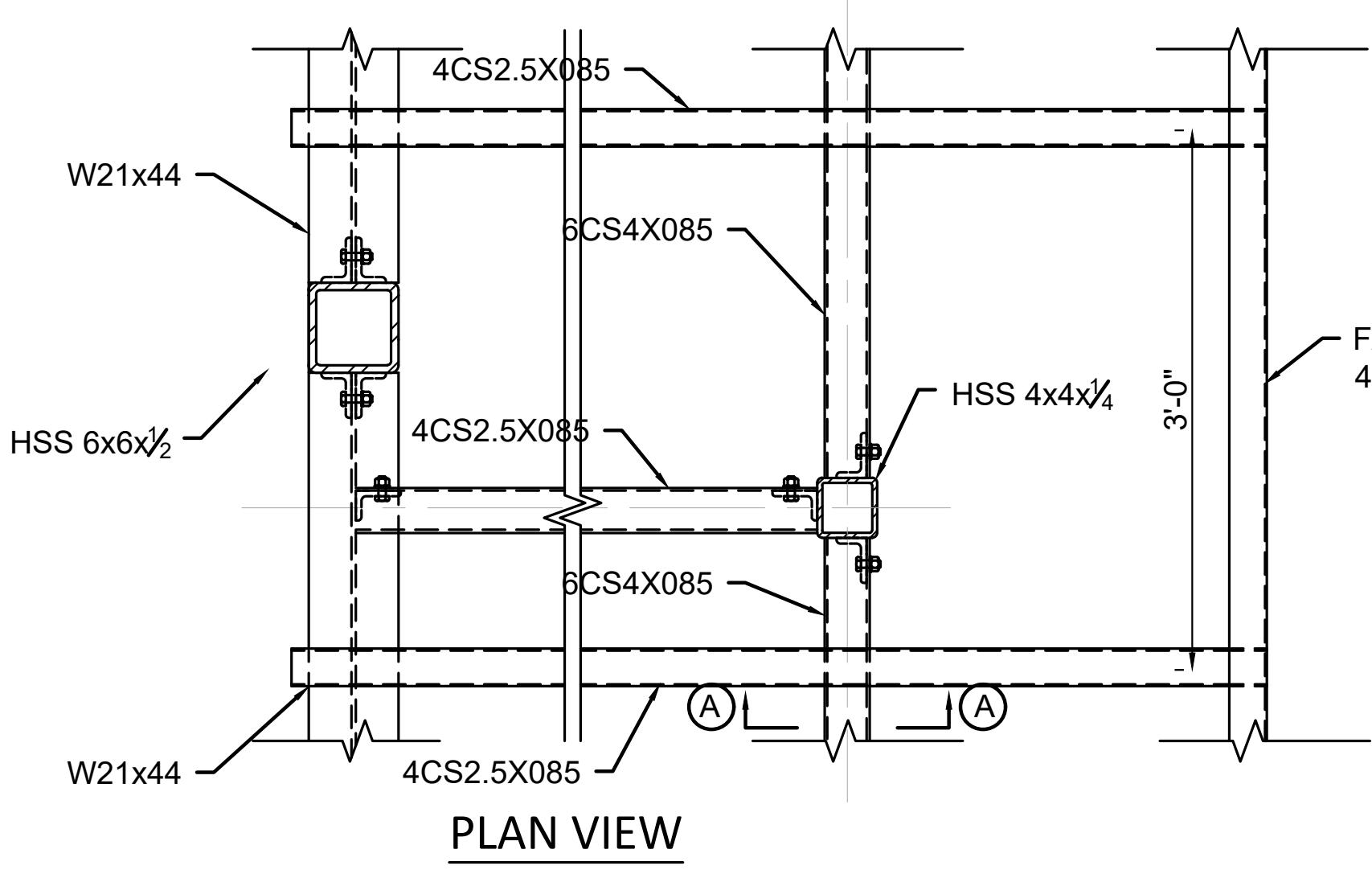


3 CORNER COLUMN CONNECTION
S4.0 SCALE: N.T.S.

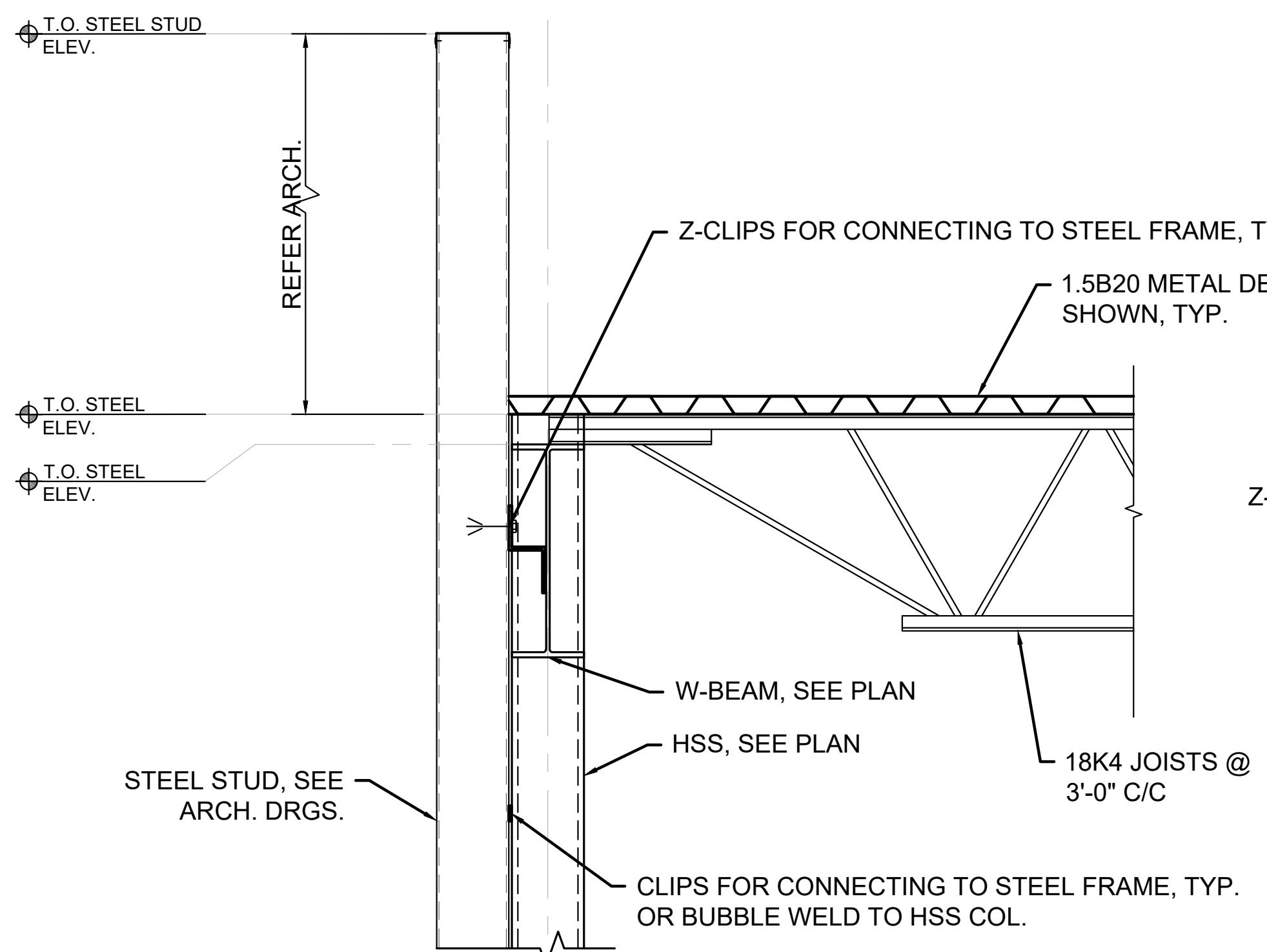


4 CORNER COLUMN CONNECTION
S4.0 SCALE: N.T.S.

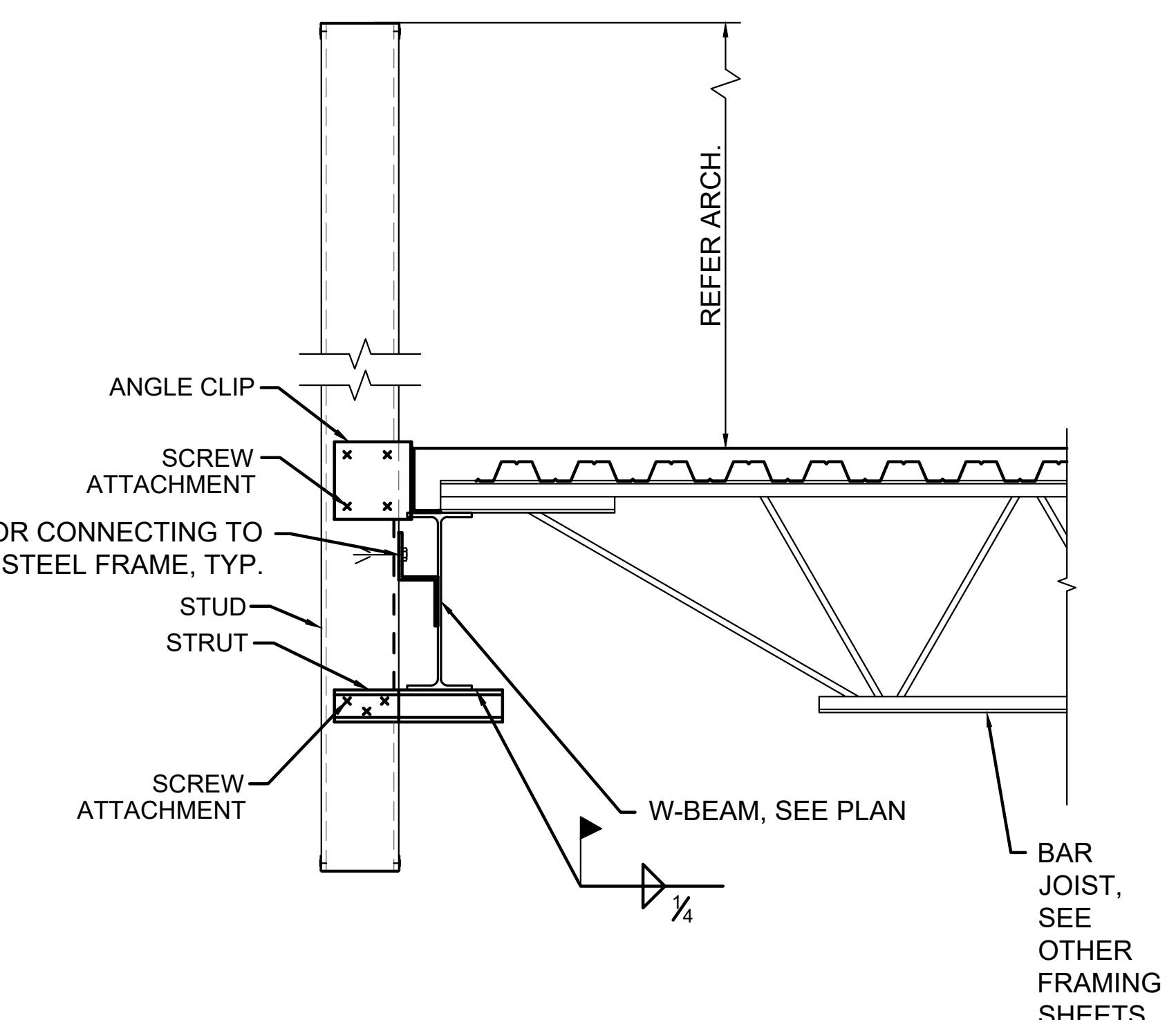




1 CORNER COLUMN CONNECTION
S4.1 SCALE: N.T.S.

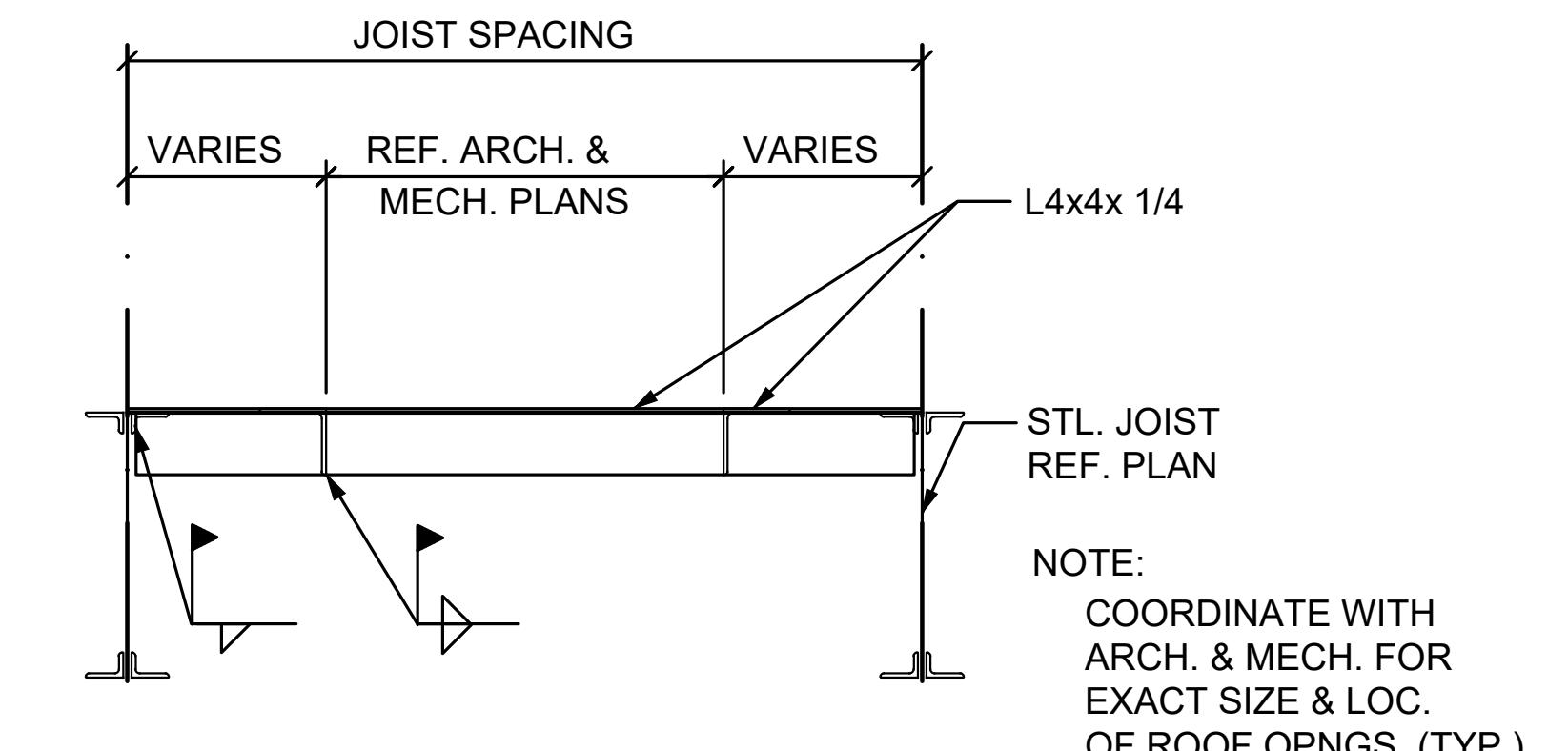


2 CORNER COLUMN CONNECTION
S4.1 SCALE: N.T.S.



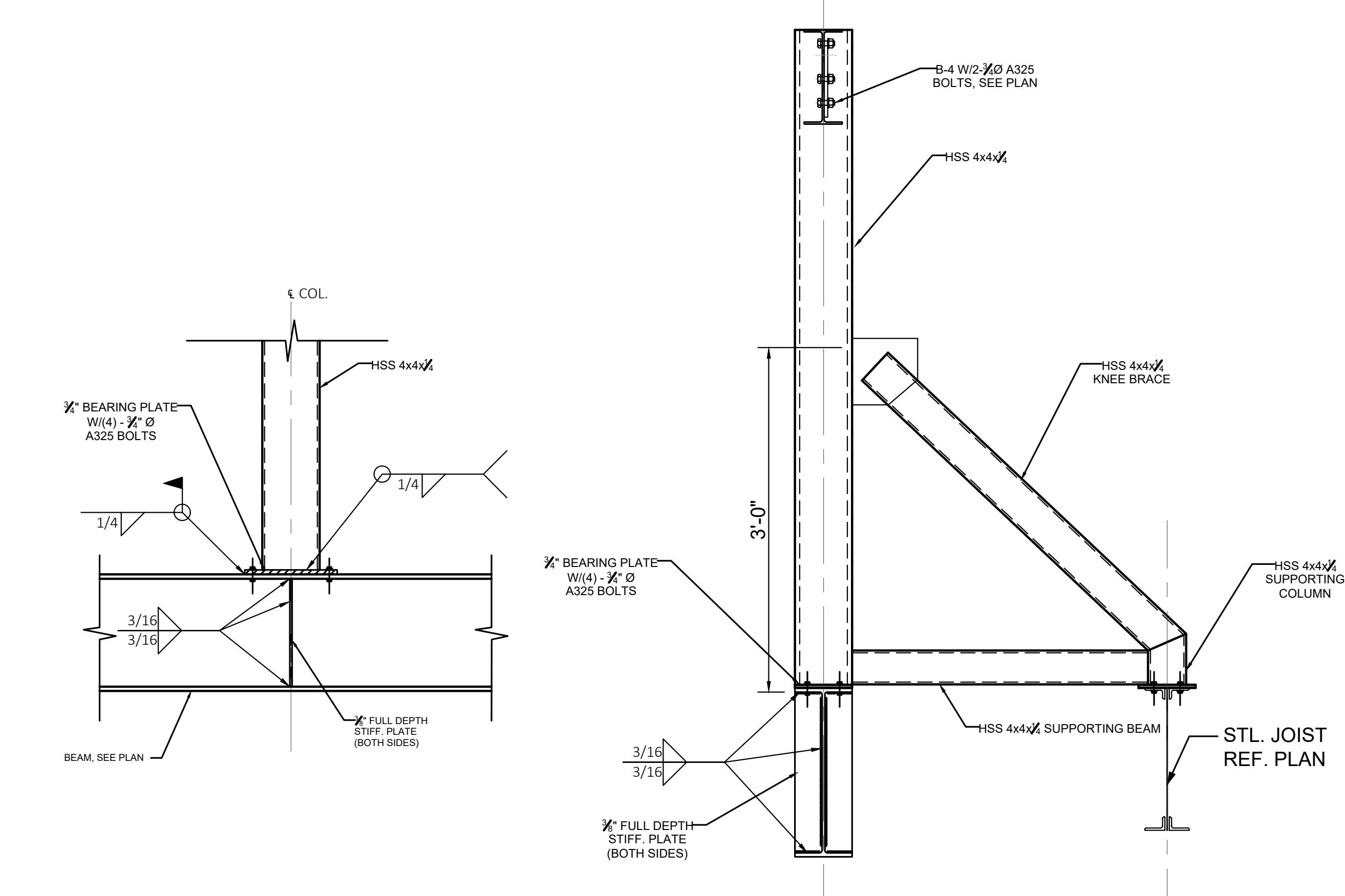
3 STUD WALL TO FRAME CONNECTION, TYP.
S4.1

SCALE: N.T.S.



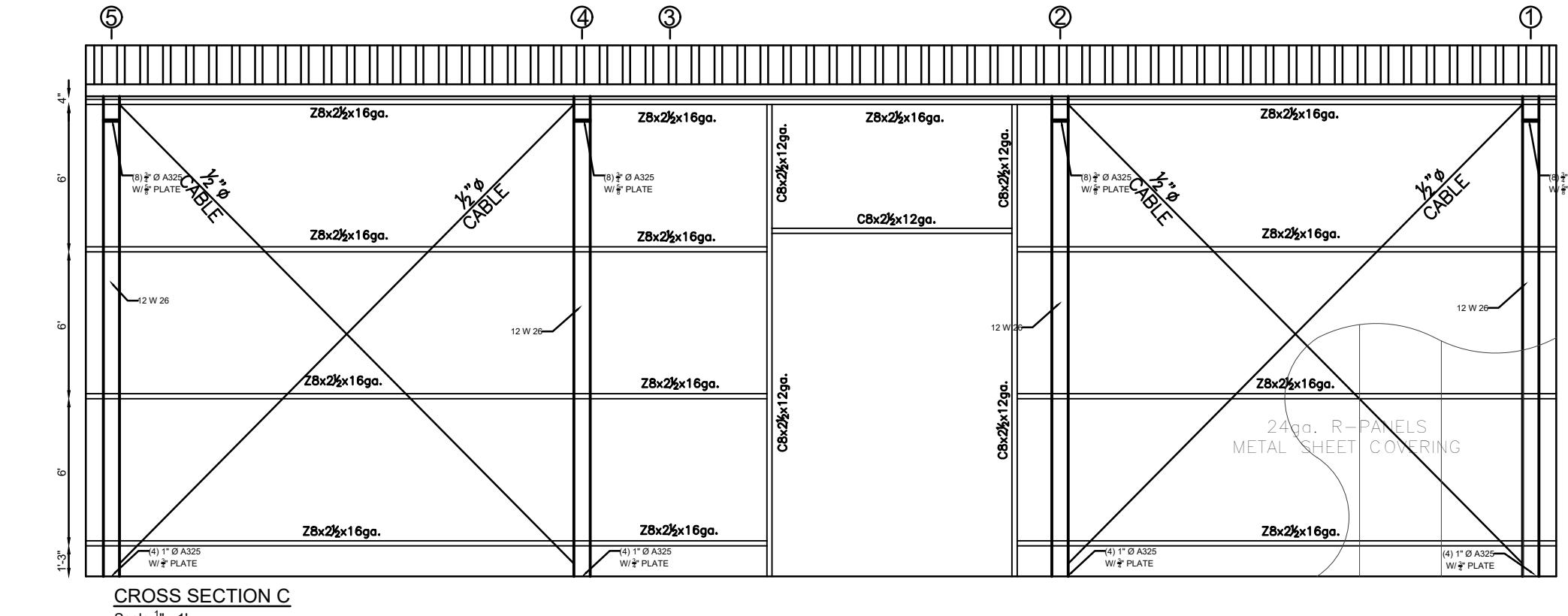
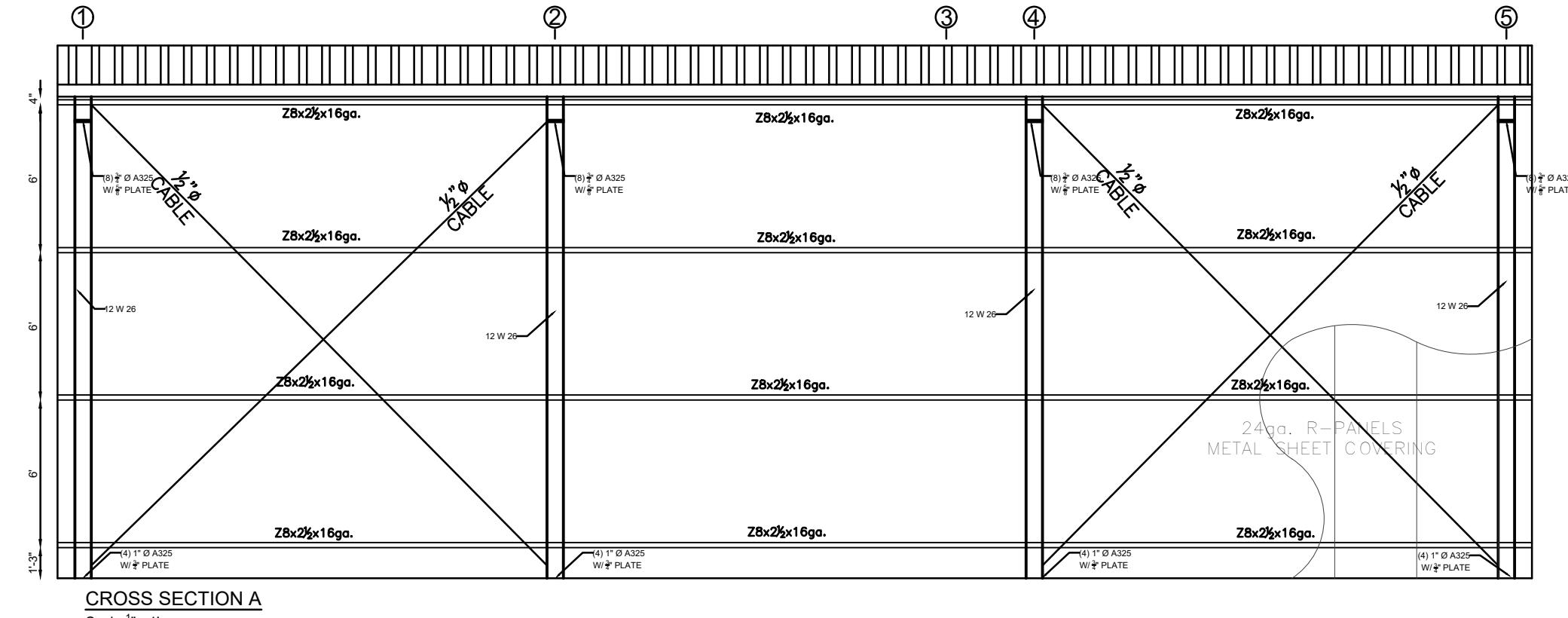
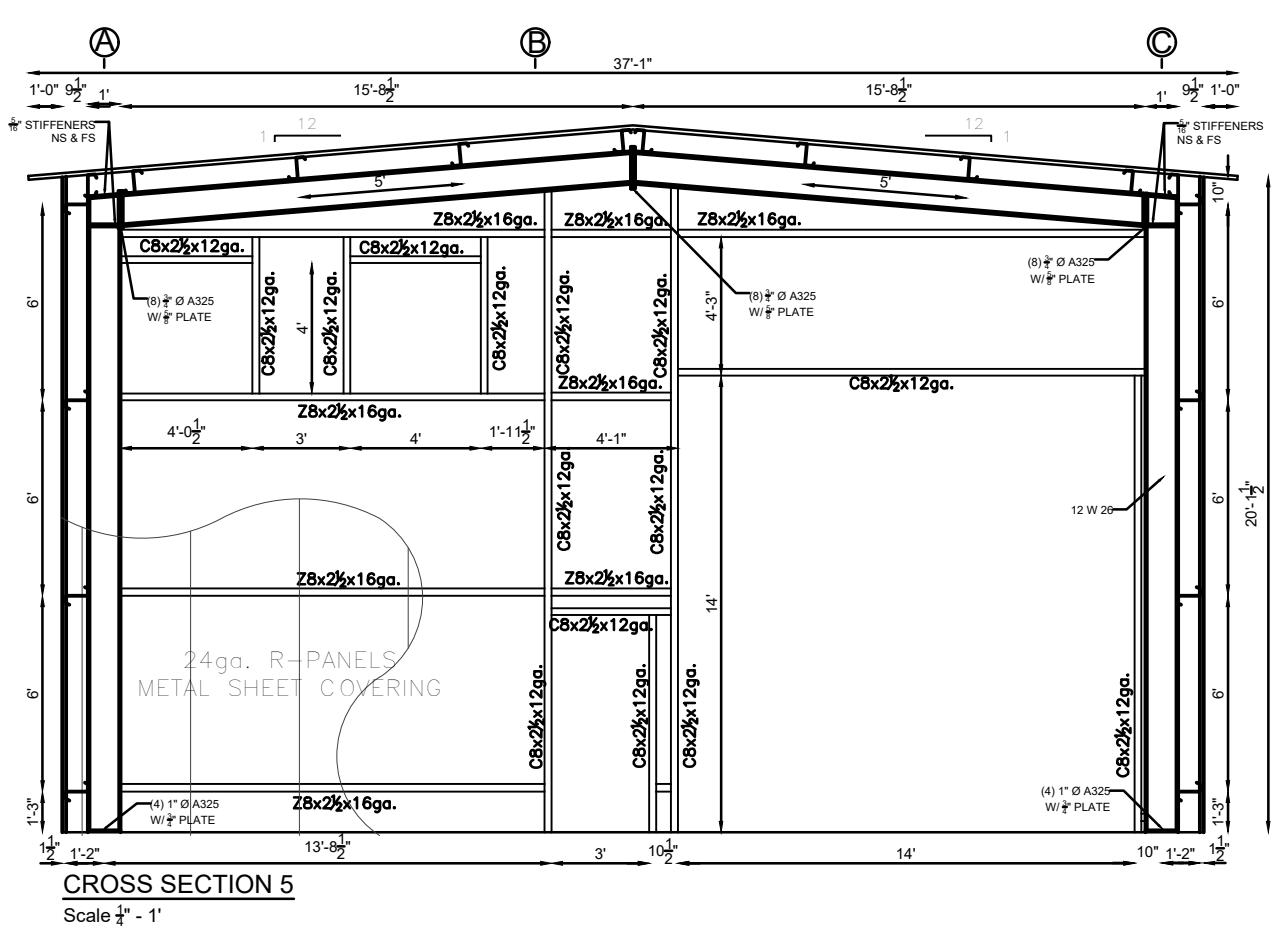
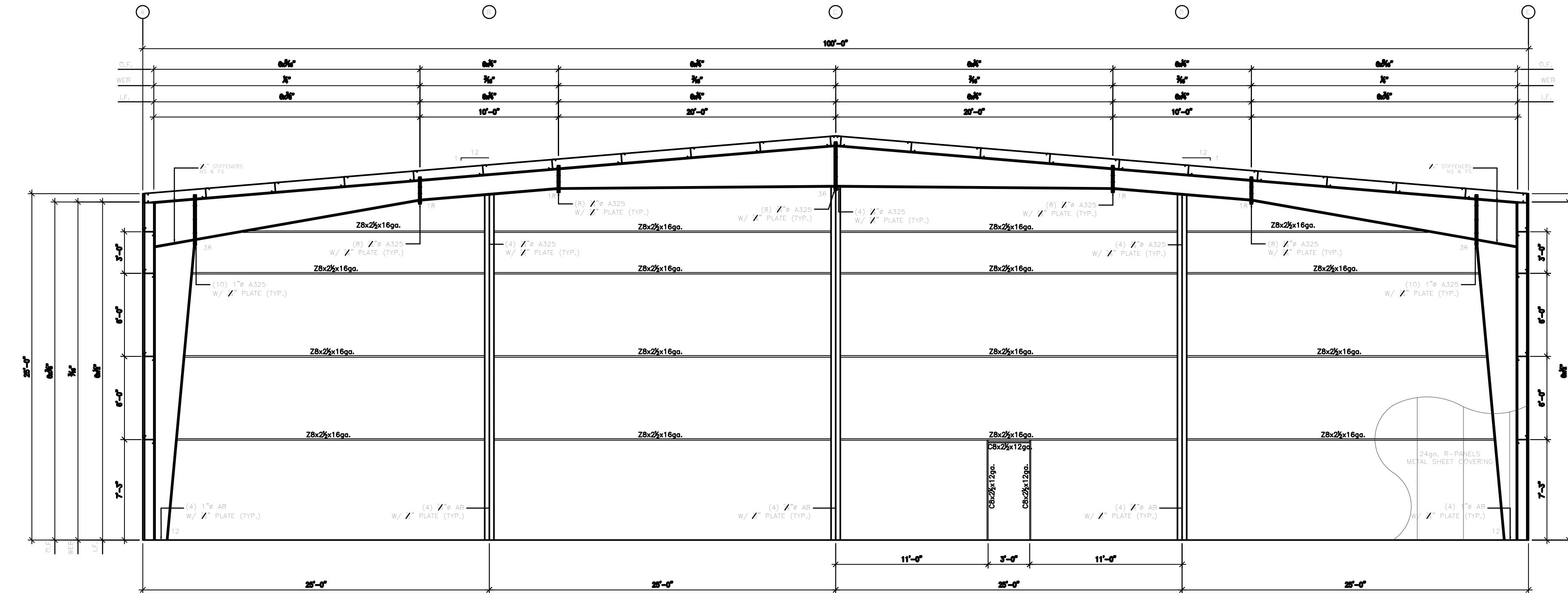
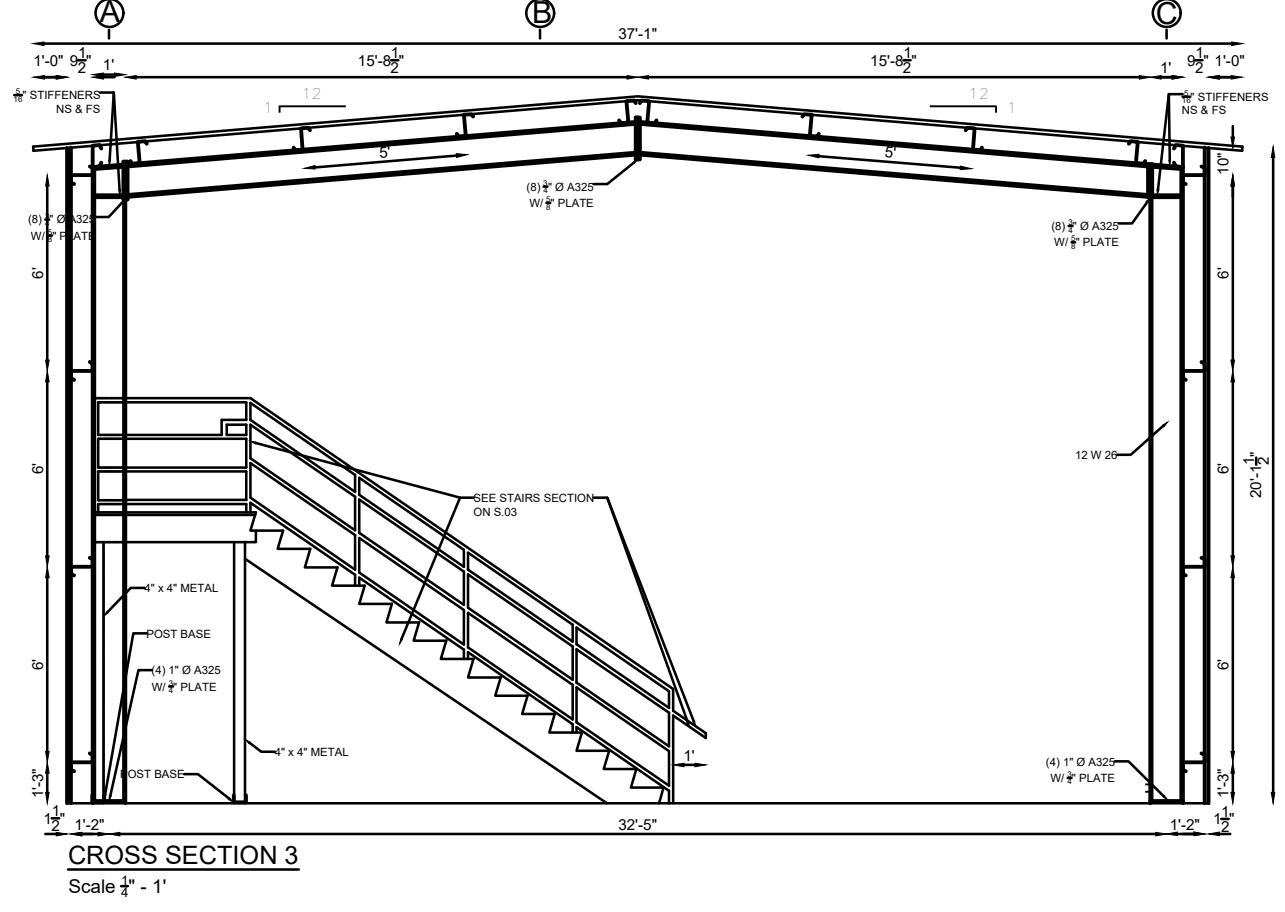
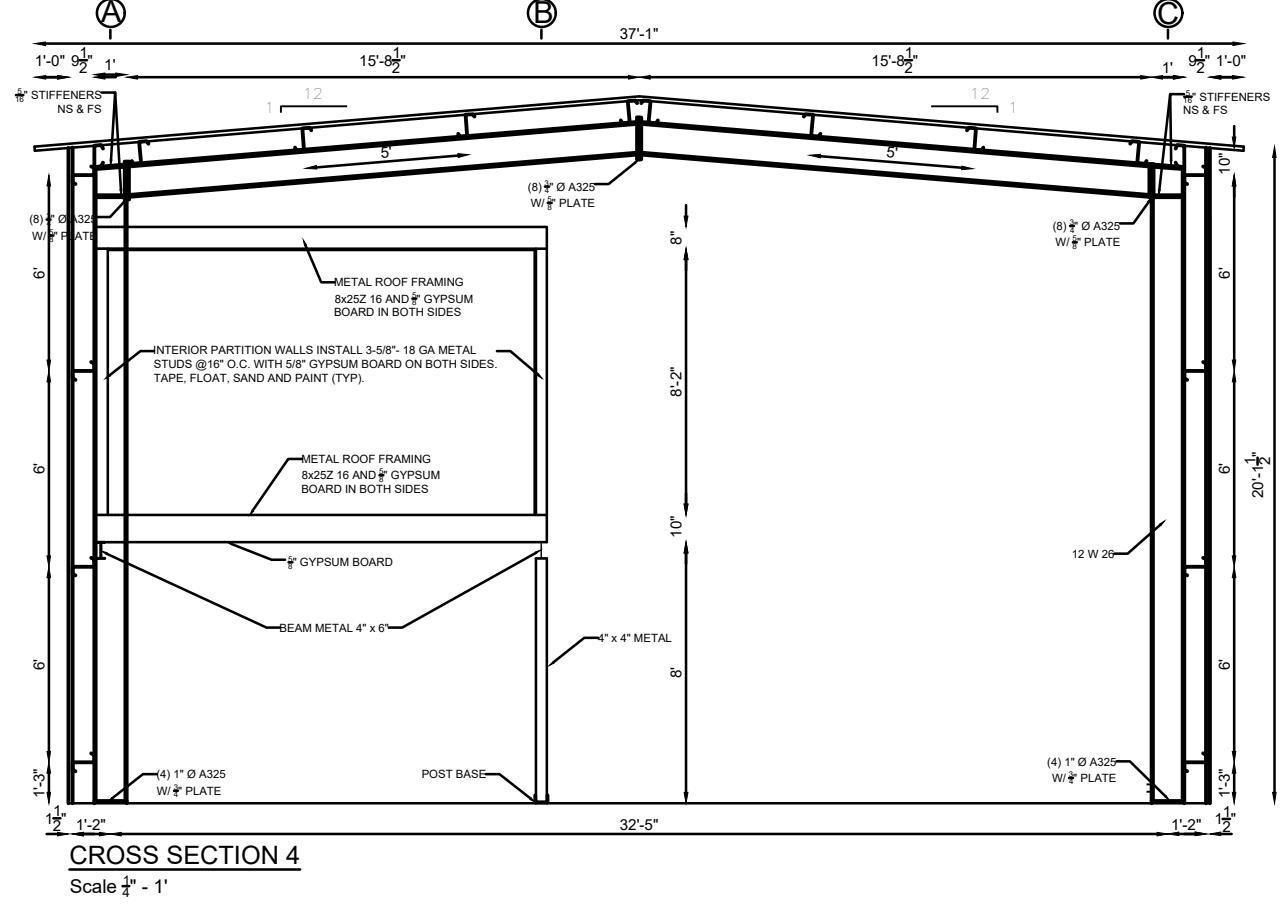
4 TYP. ROOF OPENING DETAIL
S4.1

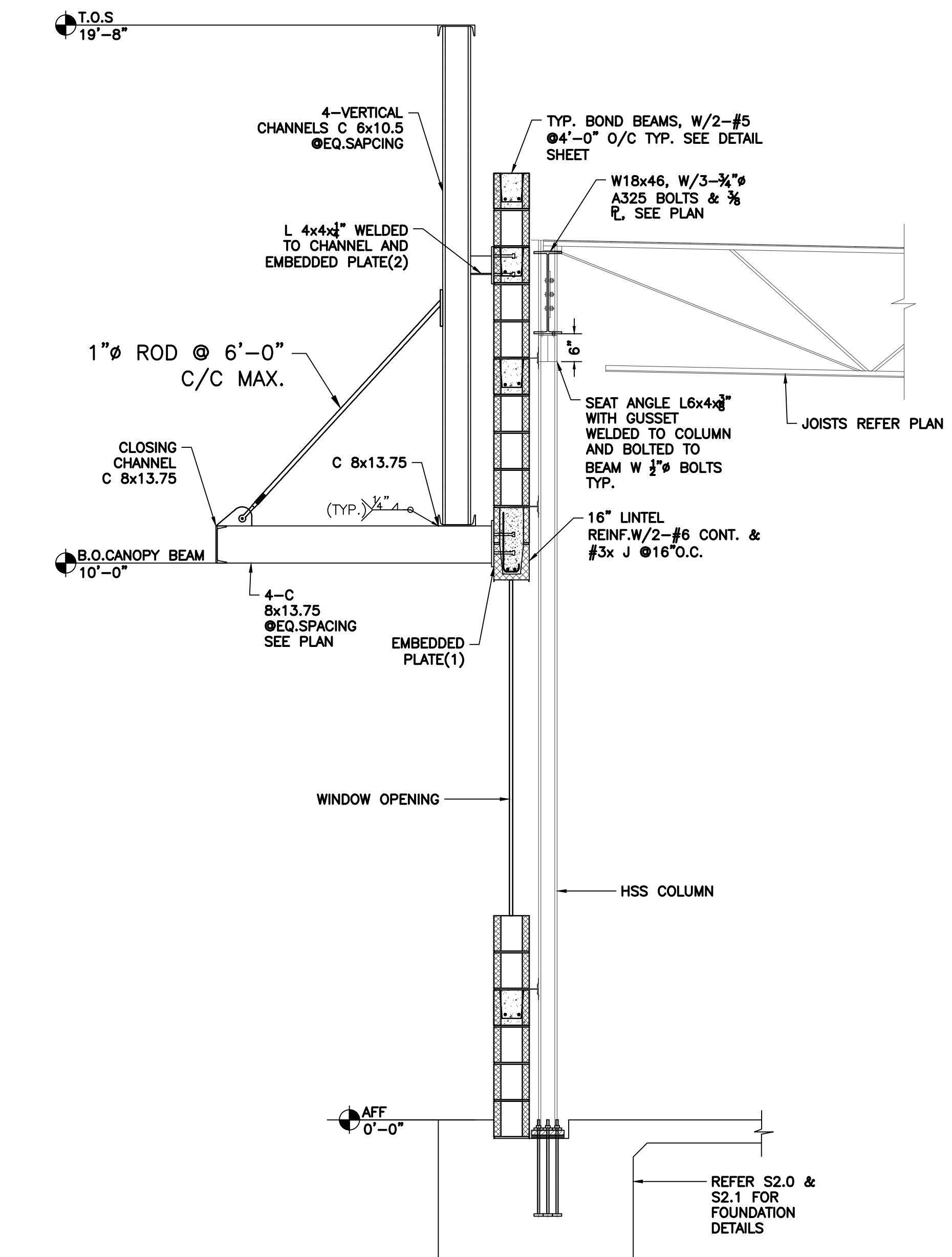
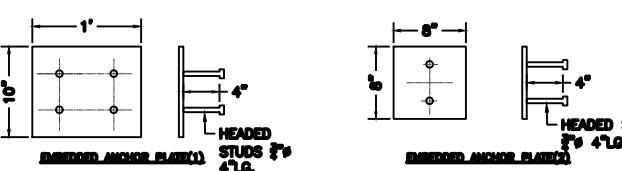
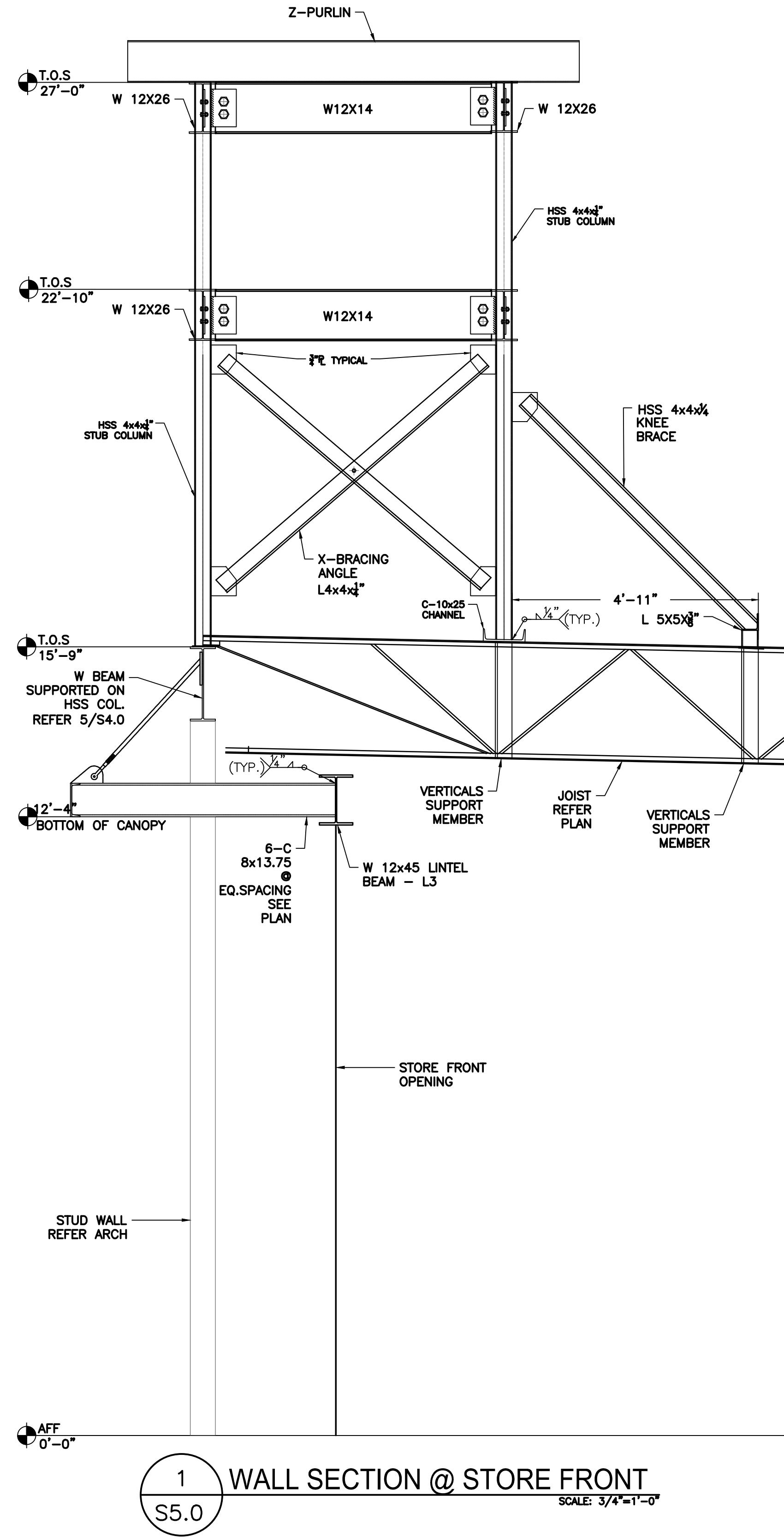
SCALE: N.T.S.



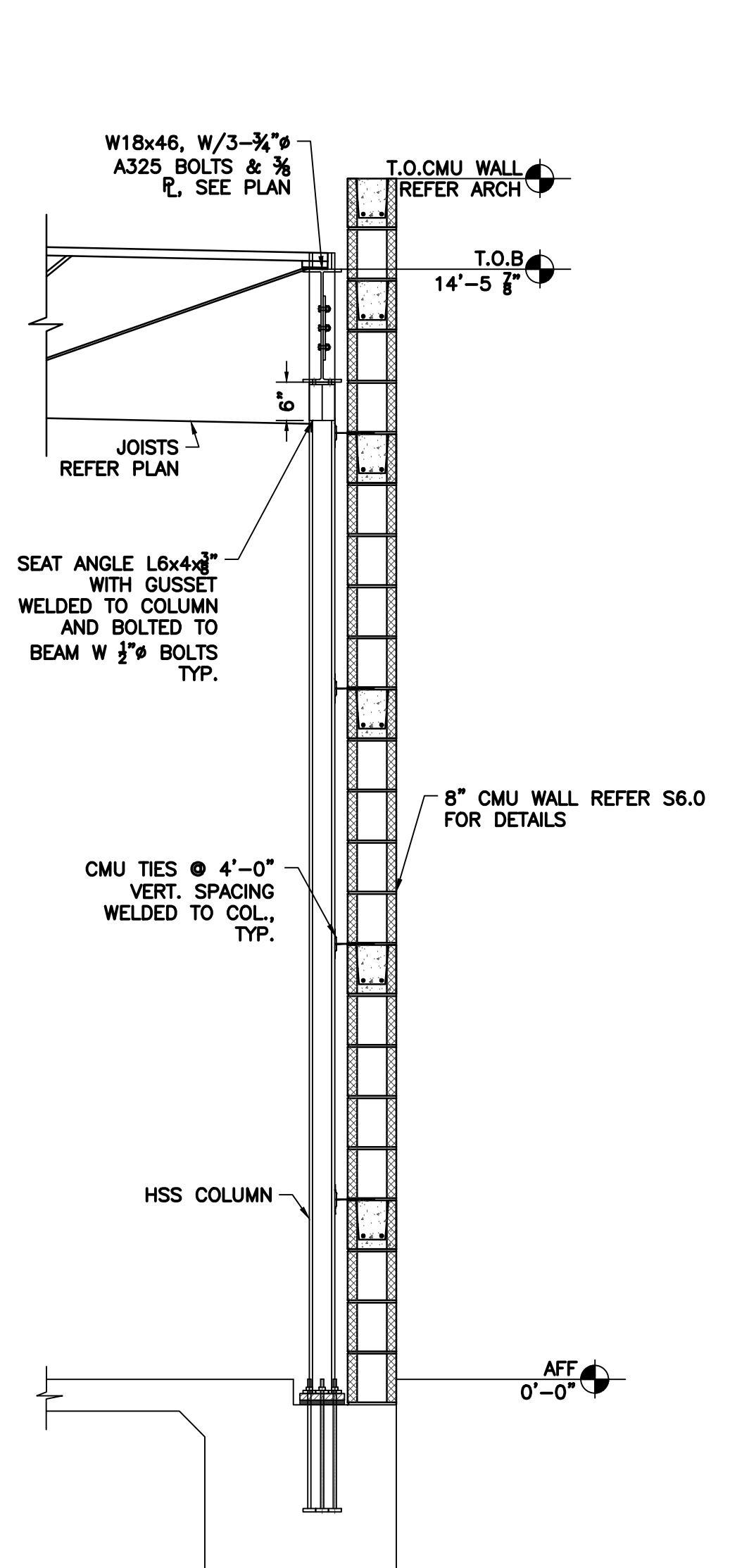
5 STUB COLUMN ON STEEL BEAM
S4.1

SCALE: N.T.S.



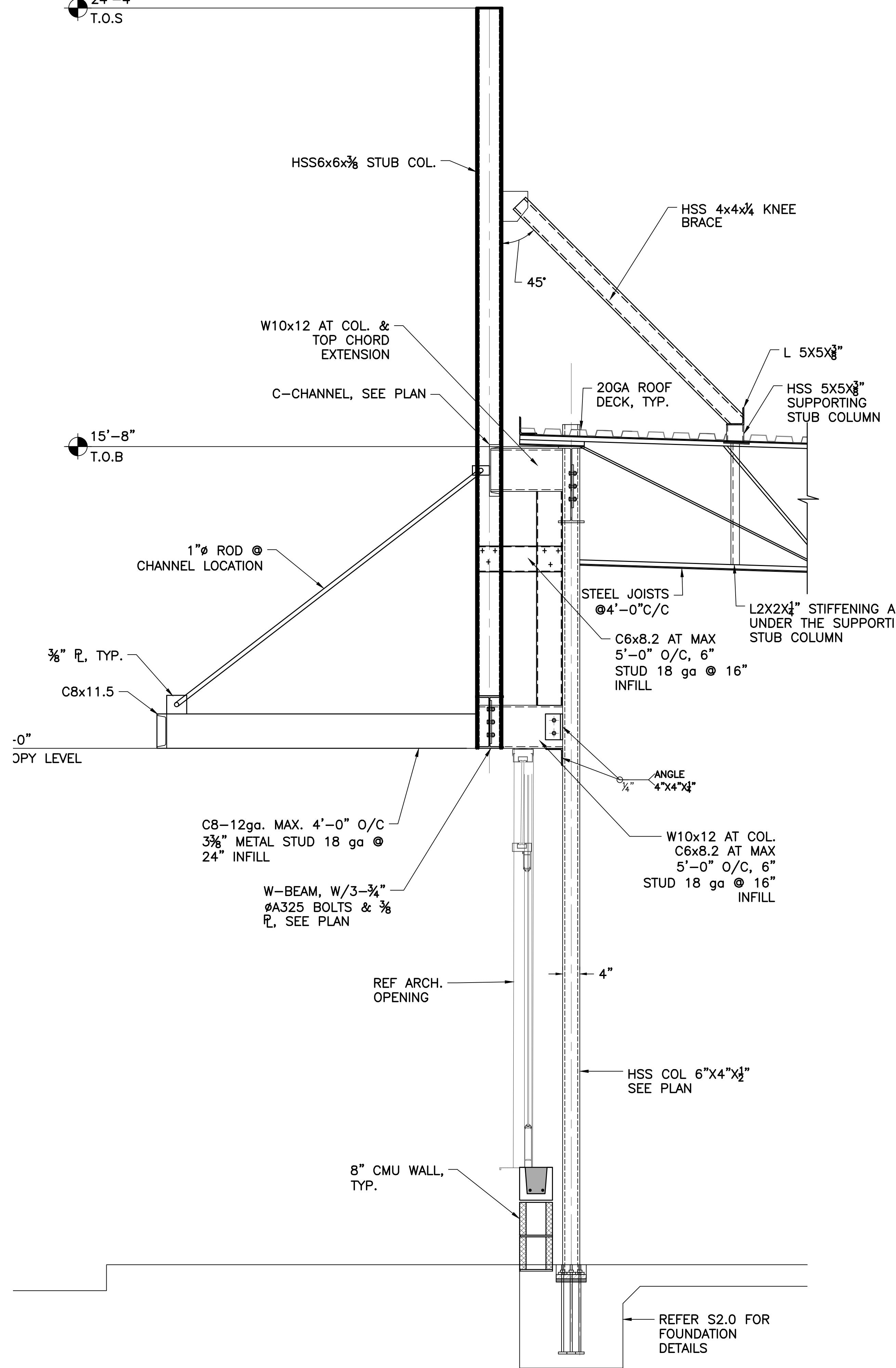


2 WALL SECTION @ CANOPY OVER
WINDOW OPENINGS
SCALE: 3/4"-1'-0"



3 WALL SECTION @ REAR SIDE
SCALE: 3/4"-1'-0"

24'-4"
T.O.S



1
S5.0 WALL SECTION @ CANOPY OVER
WINDOW OPENINGS
SCALE: 3/4"=1'-0"

2
S5.0 WALL SECTION @ REAR SIDE
SCALE: 3/4"=1'-0"

3
S5.0 BLDG. SECTION @ SIDE
CMU
SCALE: 3/4"=1'-0"

