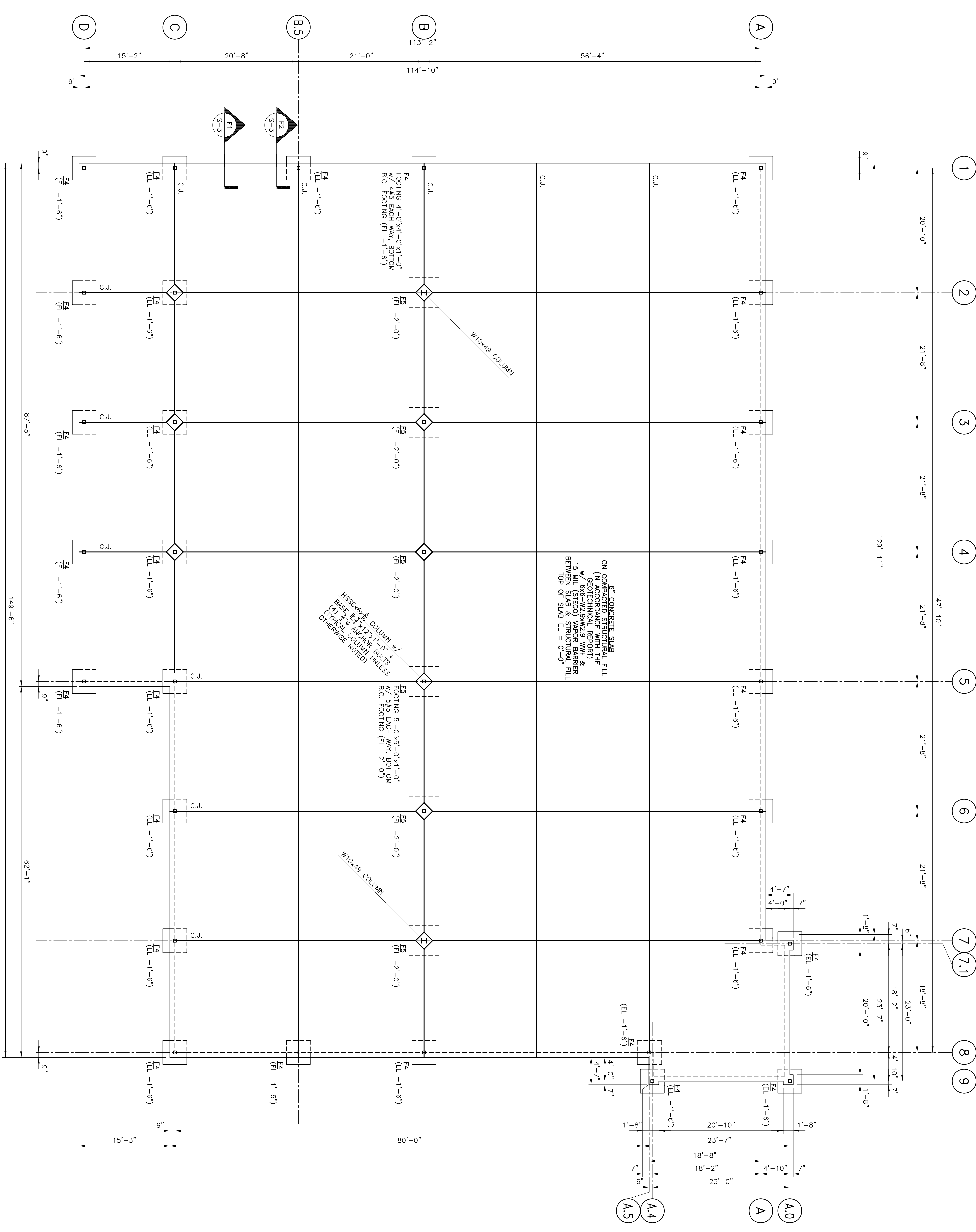
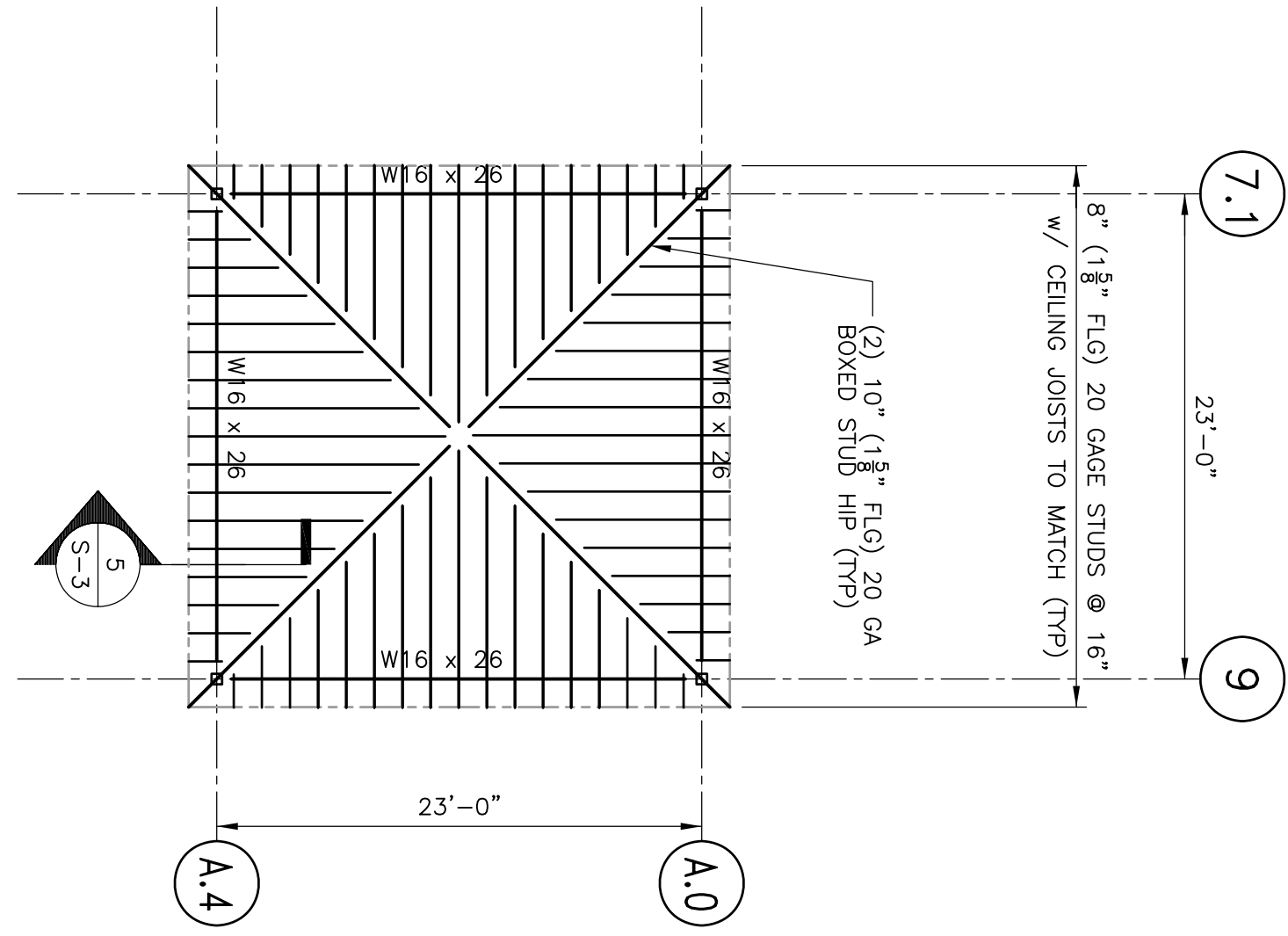
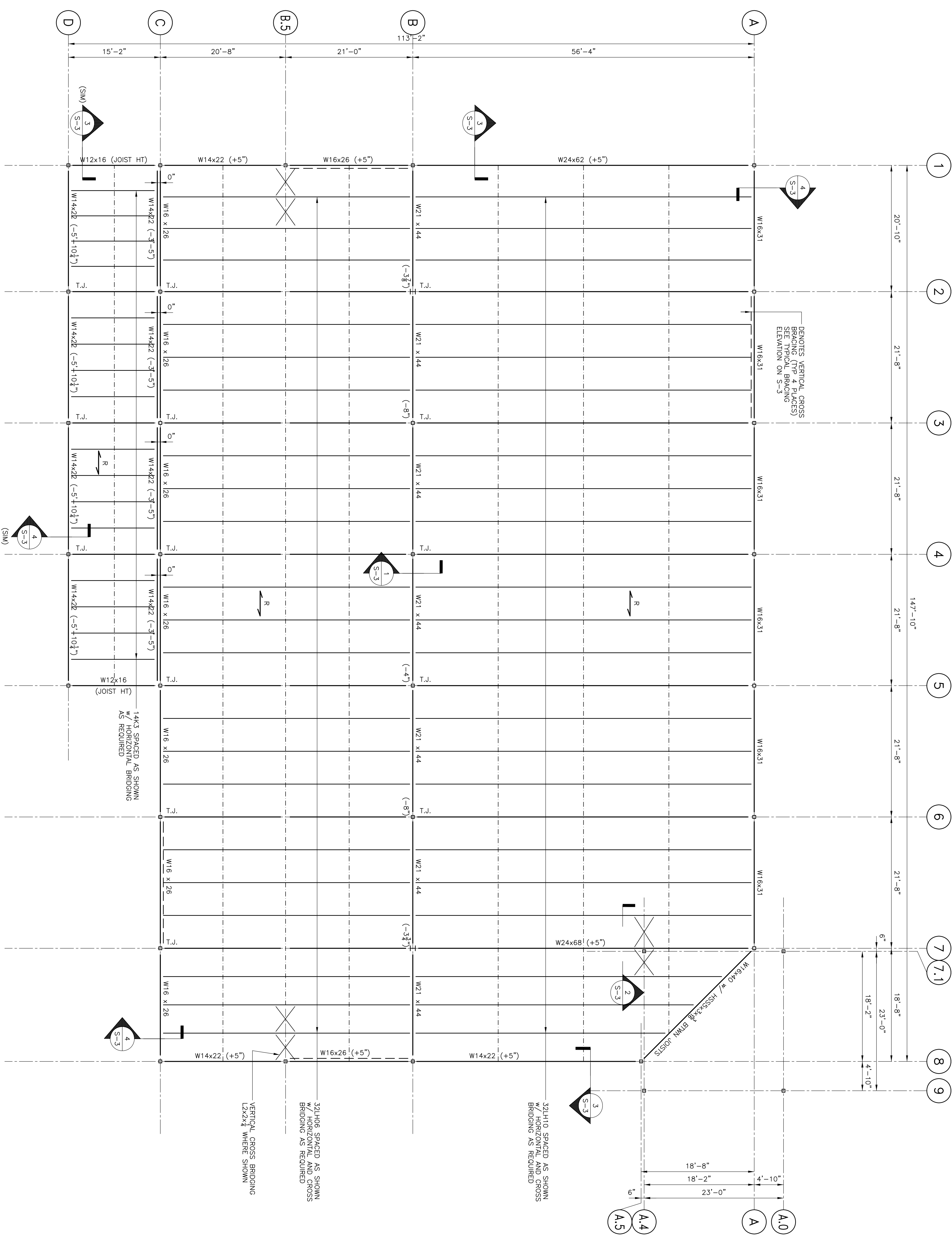


#	Description	Date





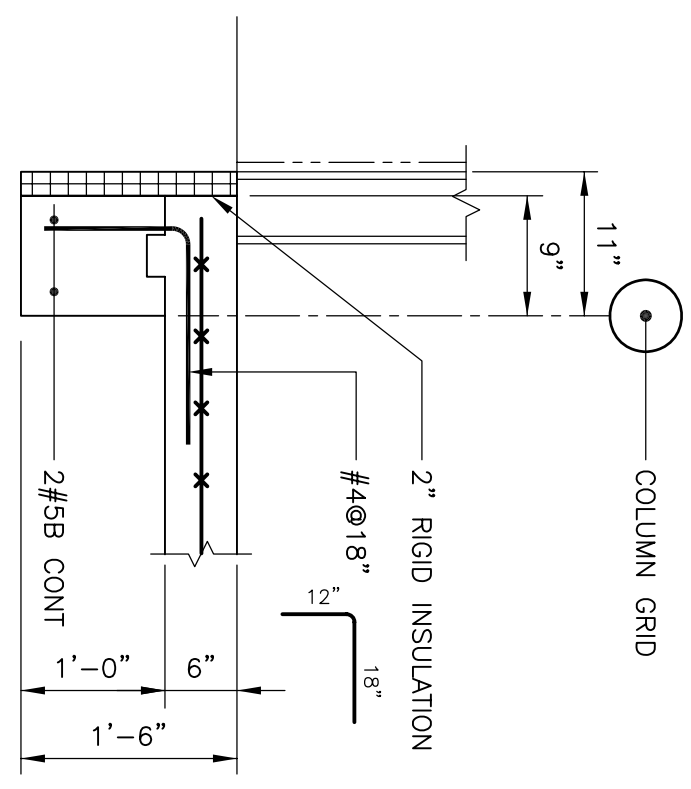
- NOTES:**
1. T.O.S EL = 25'-0" UNLESS NOTED OTHERWISE.



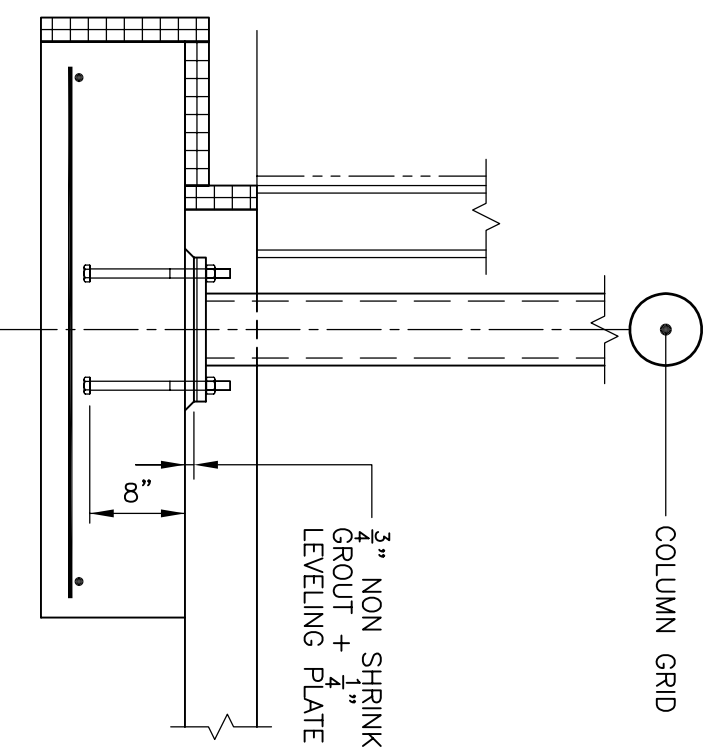
ROOF FRAMING PLAN

1/8"=1'-0"

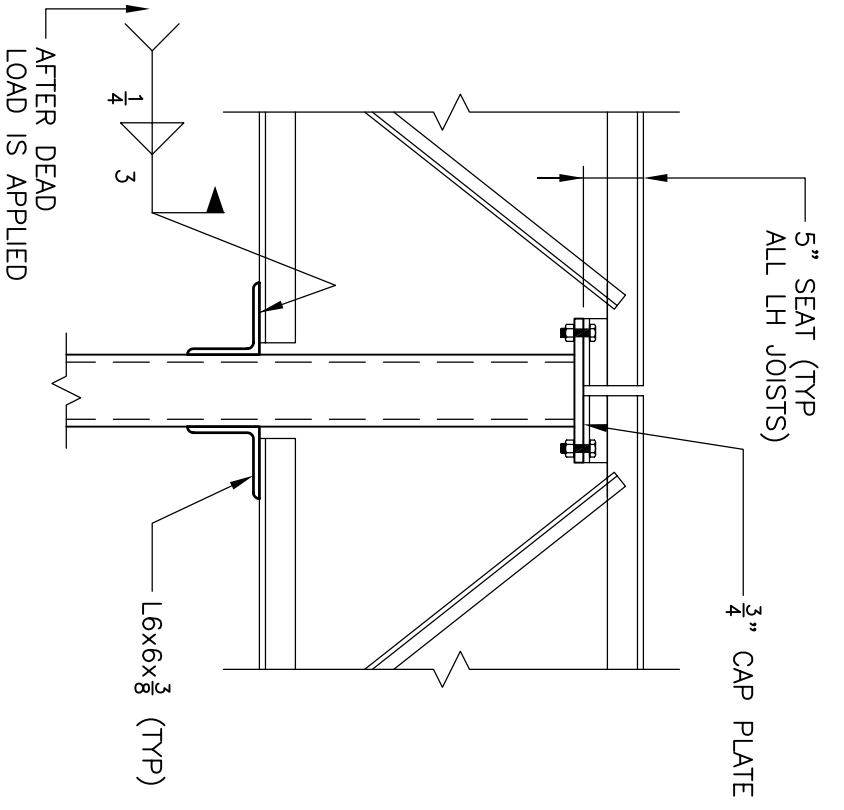
- NOTES:**
1. TOP OF STEEL ELEVATION = 17'-7" UNLESS NOTED (+/-X").
 2. JOISTS SHALL BE DESIGNED FOR A NET UPLIFT OF 9.5 PSF WITHIN 8.5 FEET OF ALL ROOF EDGES AND 4.7 PSF ELSEWHERE.
 3. JOIST DESIGN SHALL TAKE INTO ACCOUNT WEIGHT OF (S) RTU's. THE LOCATION AND FOOTPRINTS OF THE UINS TO BE DETERMINED.
 4. \leftarrow INDICATES SPAN DIRECTION OF 1 1/2" - 22GA PAINTED ROOF DECK w/ 36/4 WELDING PATTERN WITH 2 SIDE LAB SCREWS PER SPAN.



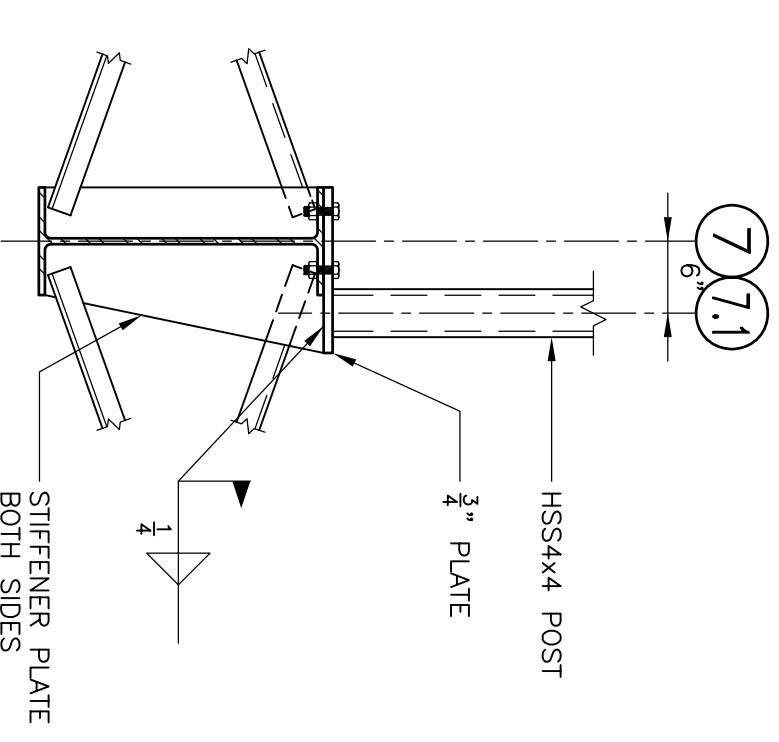
SECTION F1
Scale: 1/2" = 1'-0"



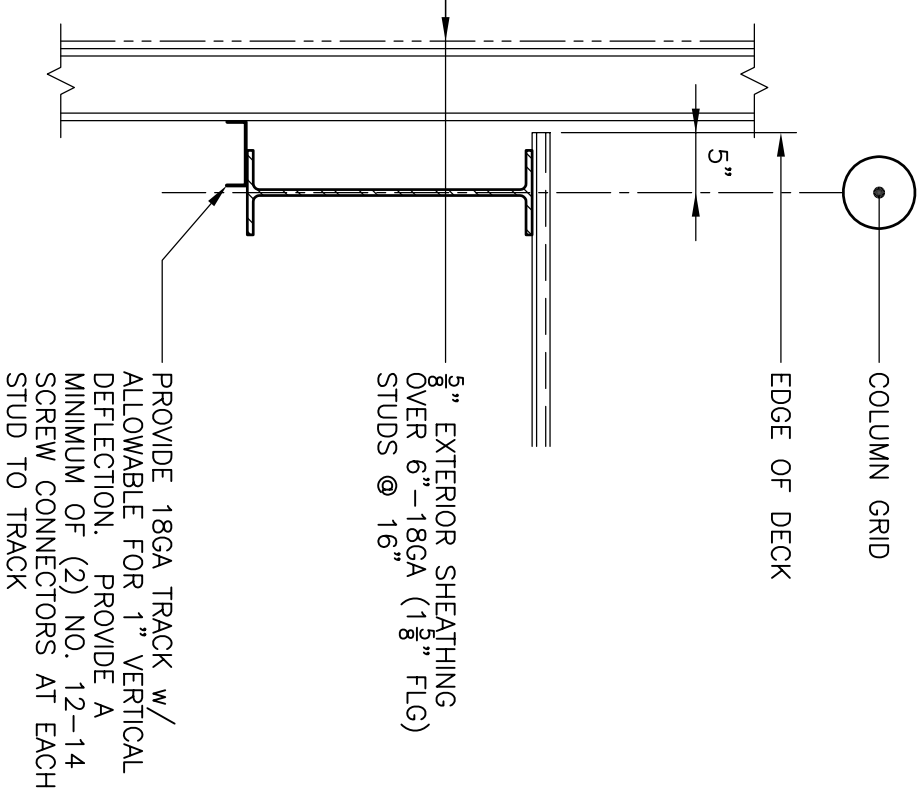
SECTION F2
Scale: 1/2" = 1'-0"



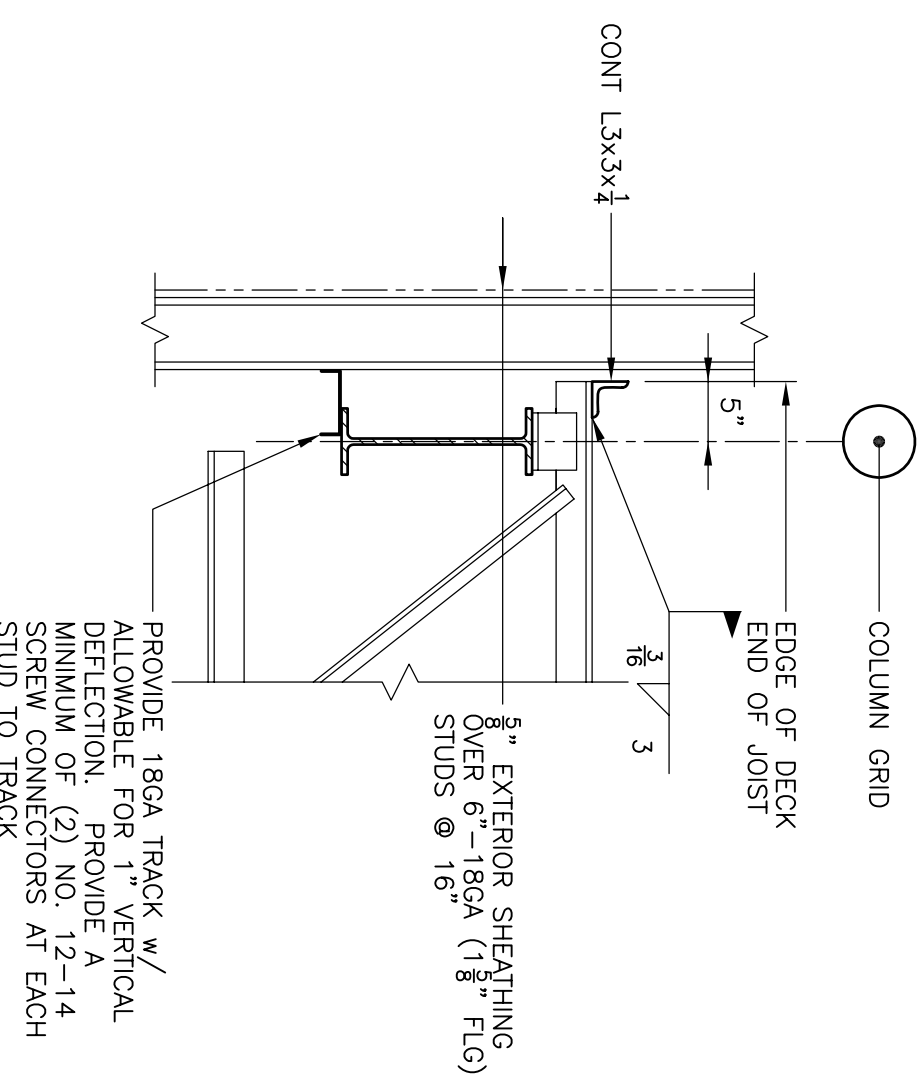
SECTION 1
Scale: 1/2" = 1'-0"



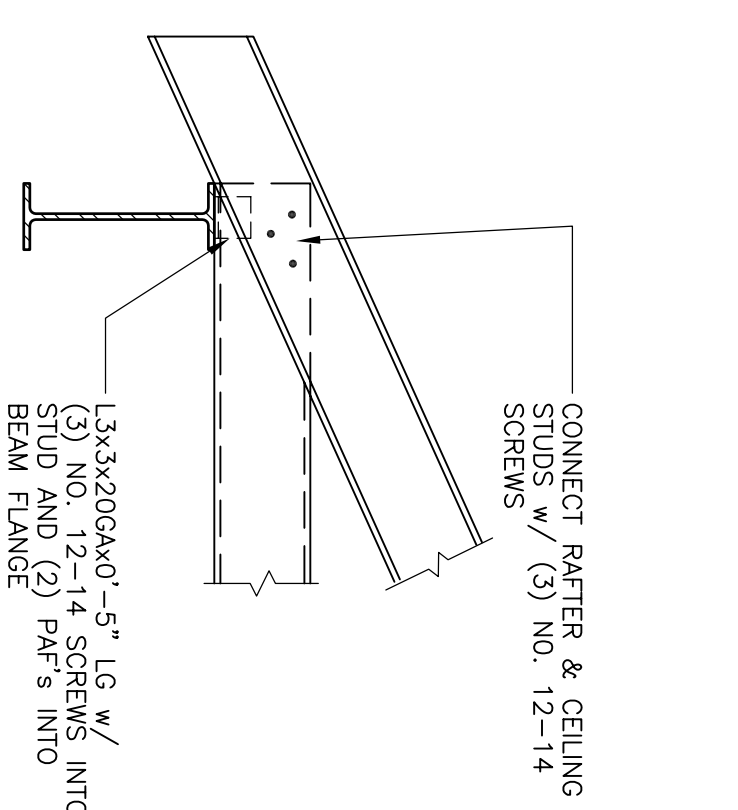
SECTION 2
Scale: 1/2" = 1'-0"



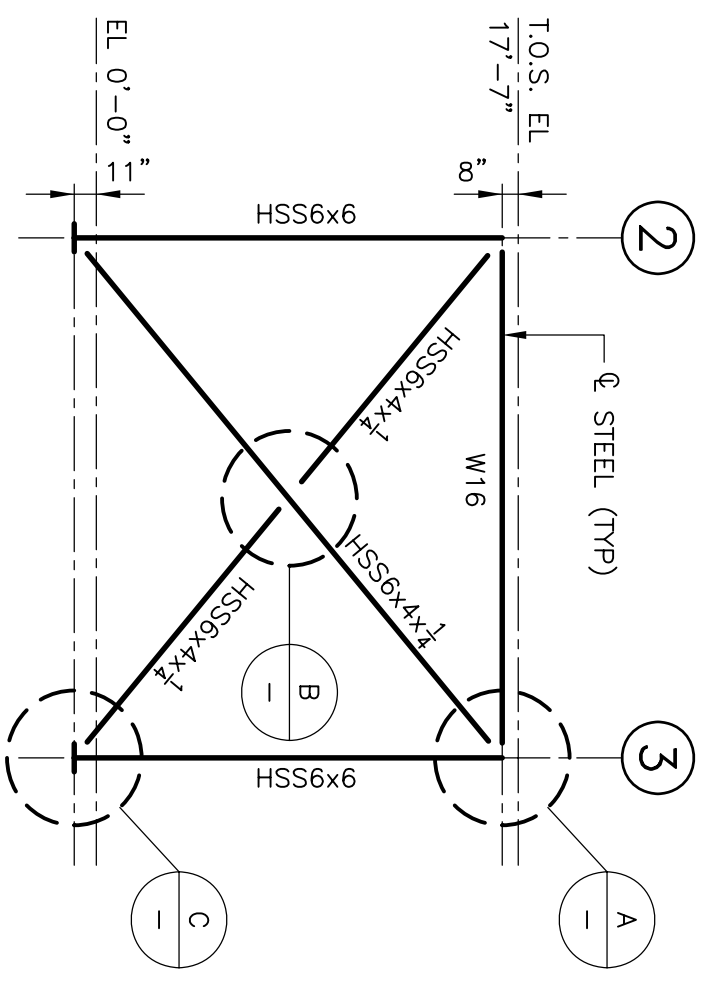
SECTION 3
Scale: 1/2" = 1'-0"



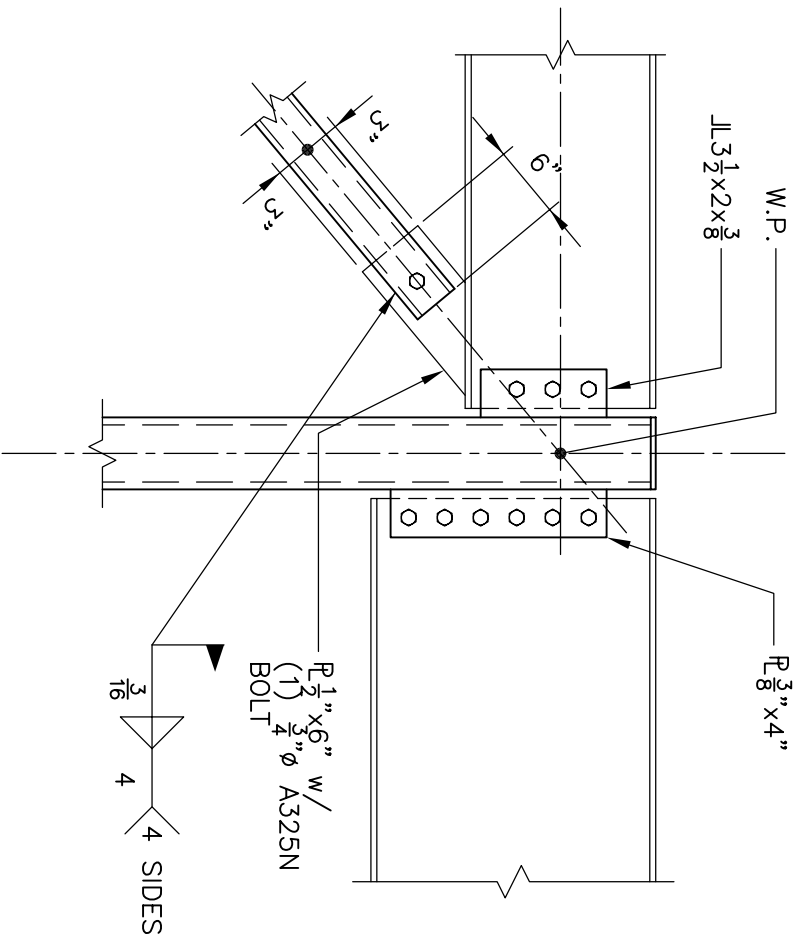
SECTION 4
Scale: 1/2" = 1'-0"



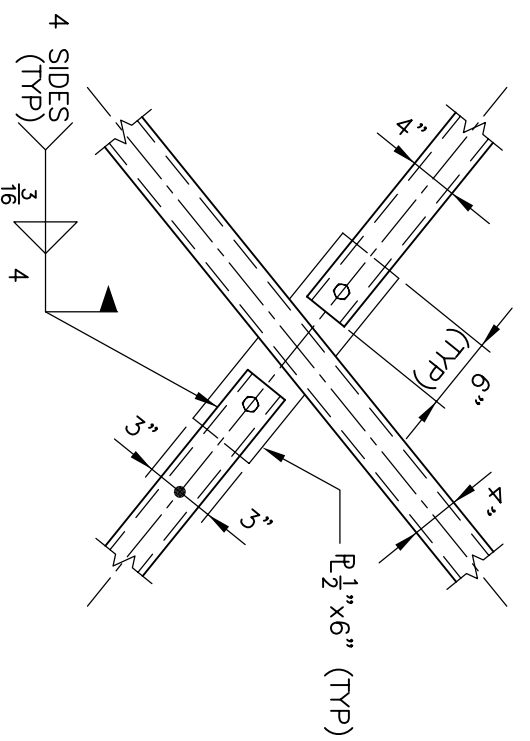
SECTION 5
Scale: 1/2" = 1'-0"



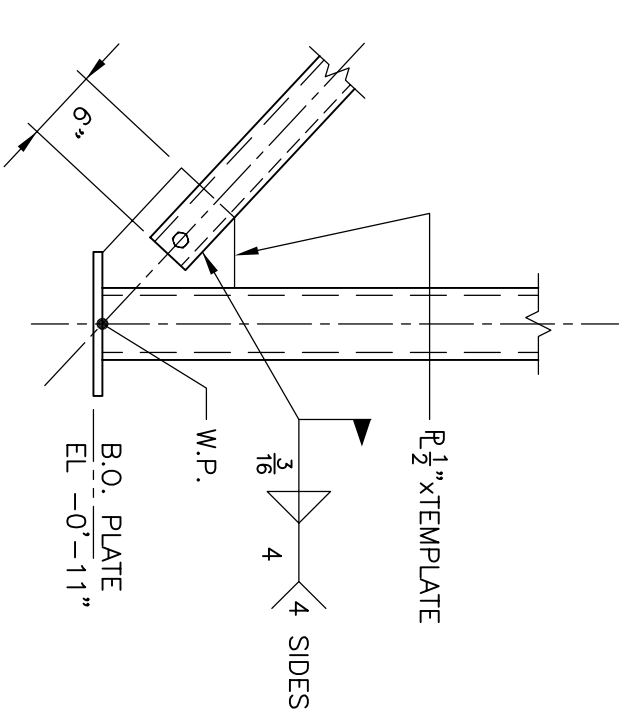
TYP BRACING ELEVATION
Scale: 1/8" = 1'-0"



DETAIL A
Scale: 1/2" = 1'-0"



DETAIL B
Scale: 1/2" = 1'-0"



DETAIL C
Scale: 1/2" = 1'-0"

General Notes:

- A. General**
1. Structural drawings shall be used in conjunction with the architectural, mechanical, electrical, site, shop drawings and specifications for the design and construction in the International Building Code.
 2. The general contractor shall provide a minimum of three (3) sets of shop drawings for the following items: structural steel, steel joists, metal deck, light gauge metal studs and reinforcing steel for review and approval by the engineer before work begins in the affected areas.

B. Soil Conditions and Structural Fill

1. All footings shall be carried to the depths shown and deeper, if required, and shall rest on undisturbed soil bearing conditions and preparation shall be prepared in accordance with the geotechnical report issued by Summit Geotechnical Services dated May 4, 2007.
3. Structural fill shall be well graded bank run, screened or crushed gravel, and shall be placed in 8" maximum lifts and compacted to 95% of maximum dry density as determined by ASTM D1557.
4. Provide well compacted, clean, coarse sand and gravel under all sills on grade after the top soil has been removed in accordance with the geotechnical report.

C. Concrete

1. All reinforcing steel shall be deformed bars conforming to ASTM A615 grade 60.
2. Welded wire fabric shall conform to "Standard specifications for Welded Steel Wire Fabric for Concrete Reinforcement" (ASTM-A185) and shall be supplied in flat sheets.
3. All continuous reinforcing bars shall be lapped 36 bar diameters at splices and at corners unless otherwise specified.
4. Concrete shall be placed in 8" maximum lifts and compacted to 95% of maximum dry density as determined by ASTM C1107 and shall attain a minimum compressive strength of 6000 PSI at 28 days.
5. All concrete shall attain a minimum compressive strength of 3000 psi at 28 days.

Concrete

1. Formed concrete exposed to earth or weather #5 or smaller 1 1/2" #8 or larger 2" concrete not exposed to earth or weather shall comply with the latest specifications and recommendations of the ACI.

D. Steel

1. All structural steel work shall conform to the specification for the design, fabrication and erection of structural steel for buildings of the AISC.
2. All welding shall conform to the code for welding in building construction of the AWS.
3. Steel shall be furnished in accordance with the following:
 - A. Structural Shapes: ASTM A992
 - B. Bolts: ASTM A325N
 - C. Anchor Rods: ASTM F1554, Grade 36
 - D. Structural Tubing: ASTM A500, Grade B
 - E. Washers: ASTM F436
5. All shop connections shall be bolted or welded. All field connections shall be bolted unless specifically noted on the design drawings.
6. All structural steel shall be painted (min 2 mils - dry film thickness) with an approved rust inhibiting paint.

E. Design Loads

1. Design Live Loads
 - Roof Live Load: 42 PSF (ground snow load = 60 PSF)
 - Floor Live Load: 100 PSF
 - 3 second gust = 90 MPH
2. Wind Load
 - Site Class
 - Seismic Use Group
 - Spectral Response Coefficients
 - S_s = 0.35; S_h = 0.12
3. Earthquake Design Data
 - Structural System/Seismic Resisting System: Ordinary Steel Concentrically Braced Frame
 - Analysis Procedure: Equivalent Lateral Force

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Structural Engineering
5 Michael Drive
Framingham, MA 01703
Phone: 508.776.9022
Fax: 508.376.2622

SECTIONS and DETAILS

#	Description	Date

Date: 03Aug2007
Scale: 1/8"=1'-0"
Dwn. by: RGCC
Job#: 200909HAM

Retail Building

FOR PERMIT
DRAWING NO:
S-3