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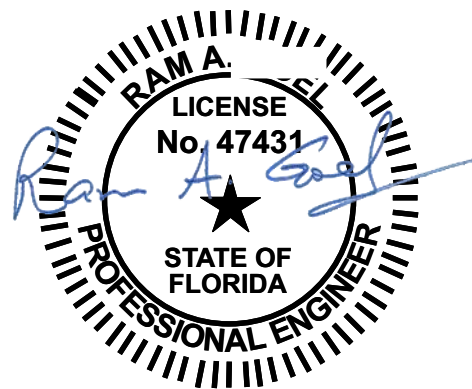
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Job # S2080
Drawn By: K.D.
Checked By: S.G.

Issue Date: 07-18-21		
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INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) 7TH EDITION. 2018 NORTH CAROLINA BUILDING CODE. 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC, 2012 IBC AND 2015 IBC.
3. DESIGN LOADS ARE AS FOLLOWS.

A) DEAD LOAD = 1.5 PSF

B) LIVE LOAD = 12 PSF

C) GROUND SNOW LOAD = 30 PSF ((26'-0"), 35 PSF (26'-0" < W ≤ 30'-0")
(UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED.)
4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) 105 TO 145 MPH (NOMINAL WIND SPEED 82 TO 112 MPH): MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTES OTHERWISE).
5. END WALL COLUMNS (POST) ARE EQUIVALENT TO SAVE WALL POSTS UNLESS NOTED OTHERWISE.
6. RISK CATEGORY I.
7. WIND EXPOSURE CATEGORY B.
8. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" X 2 1/2" – 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
9. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8 INCHES.
10. FASTENERS CONSIST OF 1/4" X 3/4" SELF- DRILLING FASTENER (SDF). USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14' (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
11. GROUND ANCHORS SHALL BE INSTALLED BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN.
12. GROUND ANCHORS CONSIST OF #4 REBAR W/ WELDED NUT X 36" LONG IN SUITABLE SOIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
13. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:

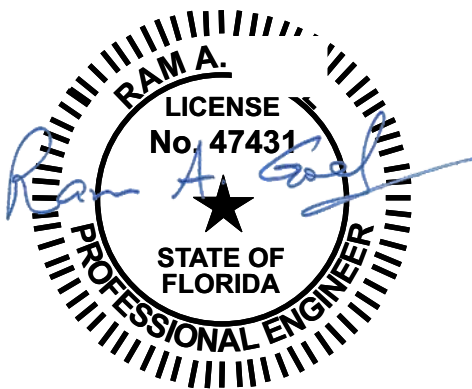
SOIL SITE CLASS = D

RISK CATEGORY I/II/III

R= 3.25 I_E= 1.0

S_{DS}= 2.0369 V= C_SW

S_{D1}= 1.258
14. WINDOW AND DOOR DESIGN PRESSURES ARE APPLICABLE TO THE FLORIDA ONLY.



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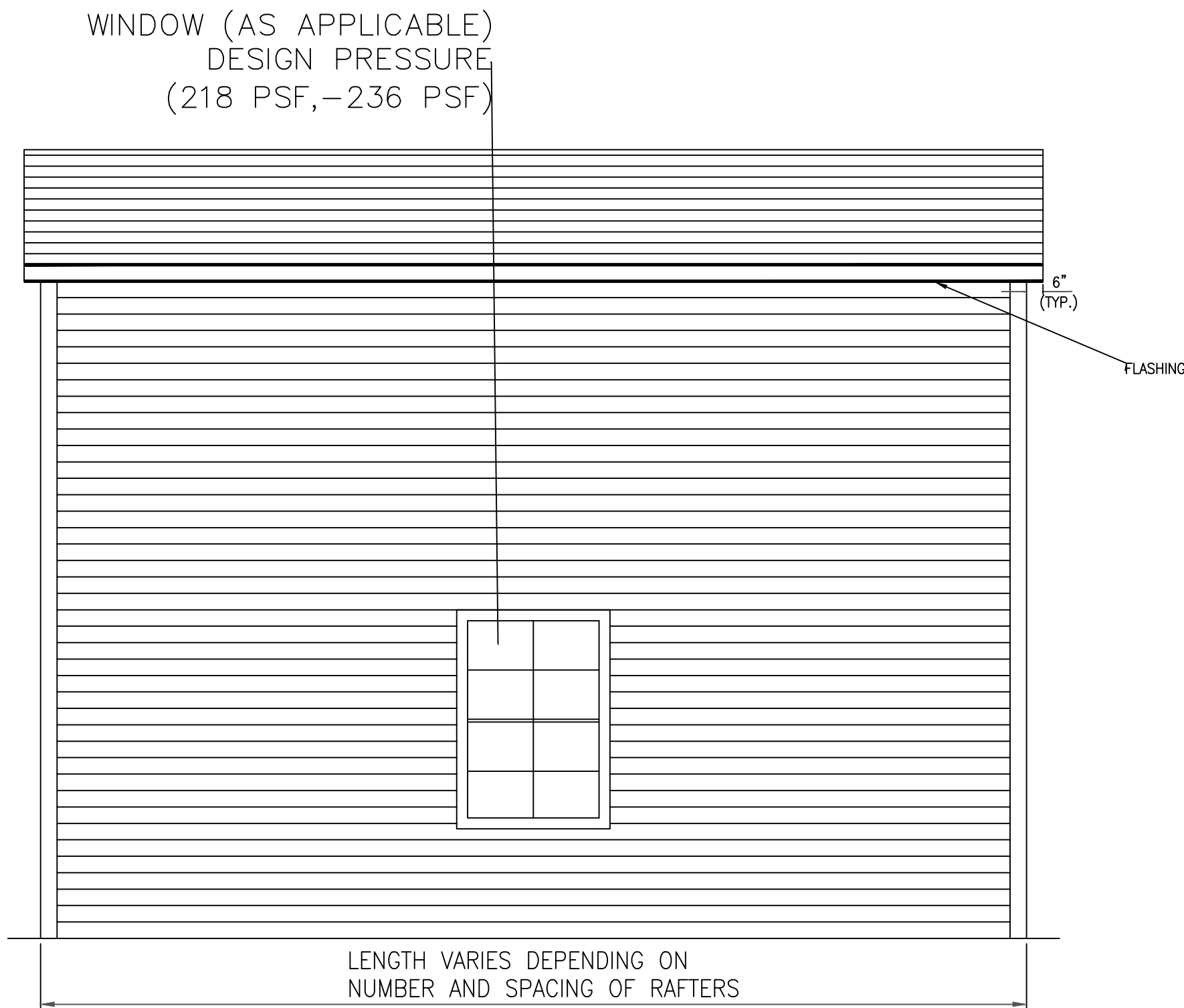
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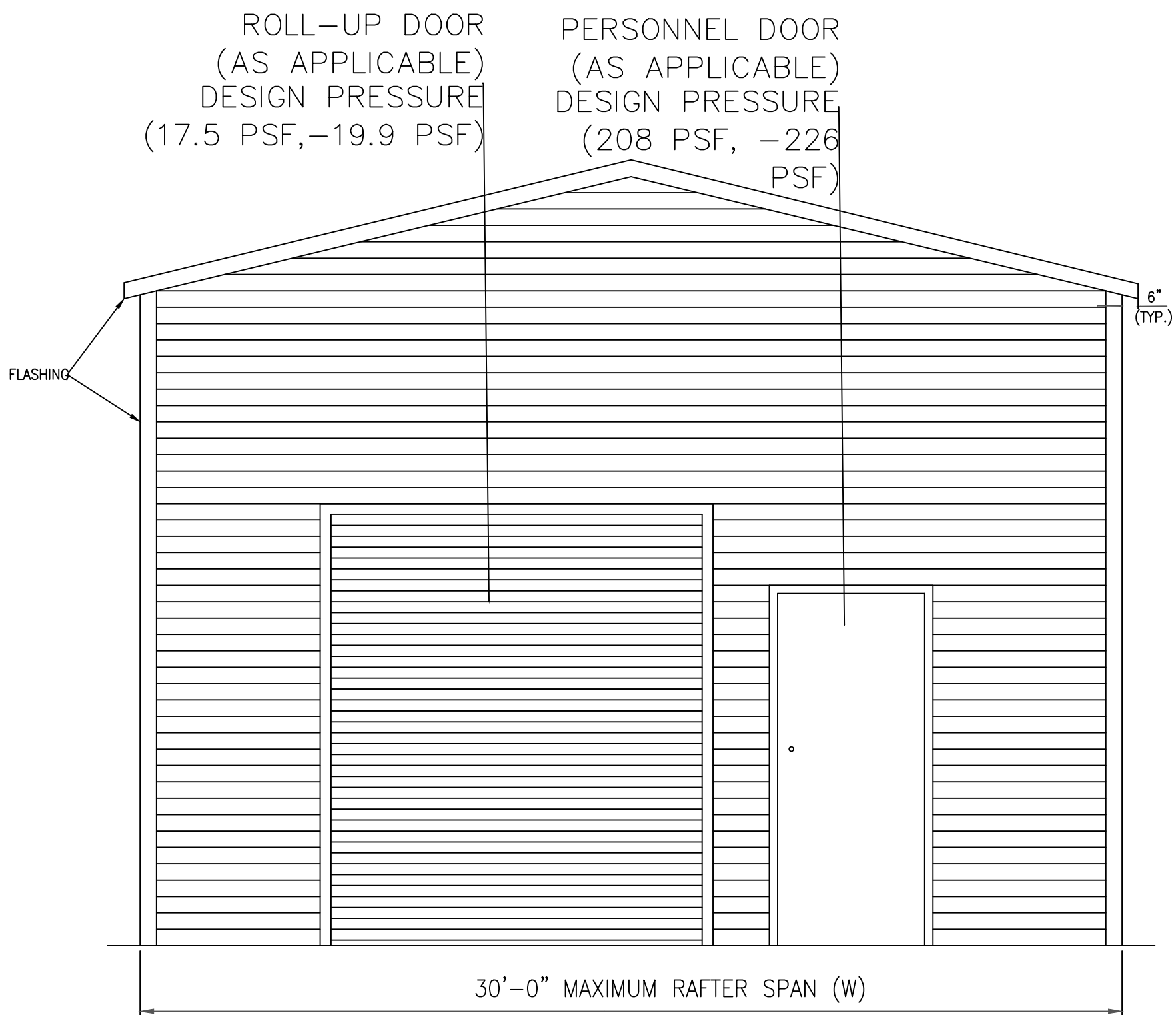
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BOX EAVE FRAME RAFTER STRUCTURE



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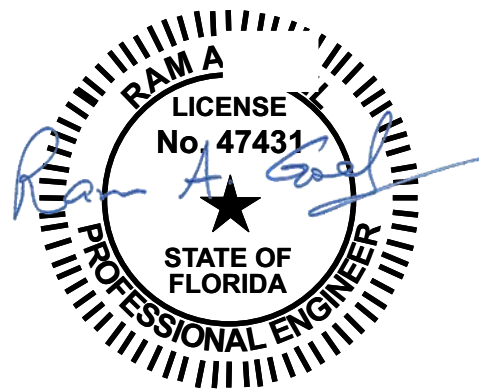
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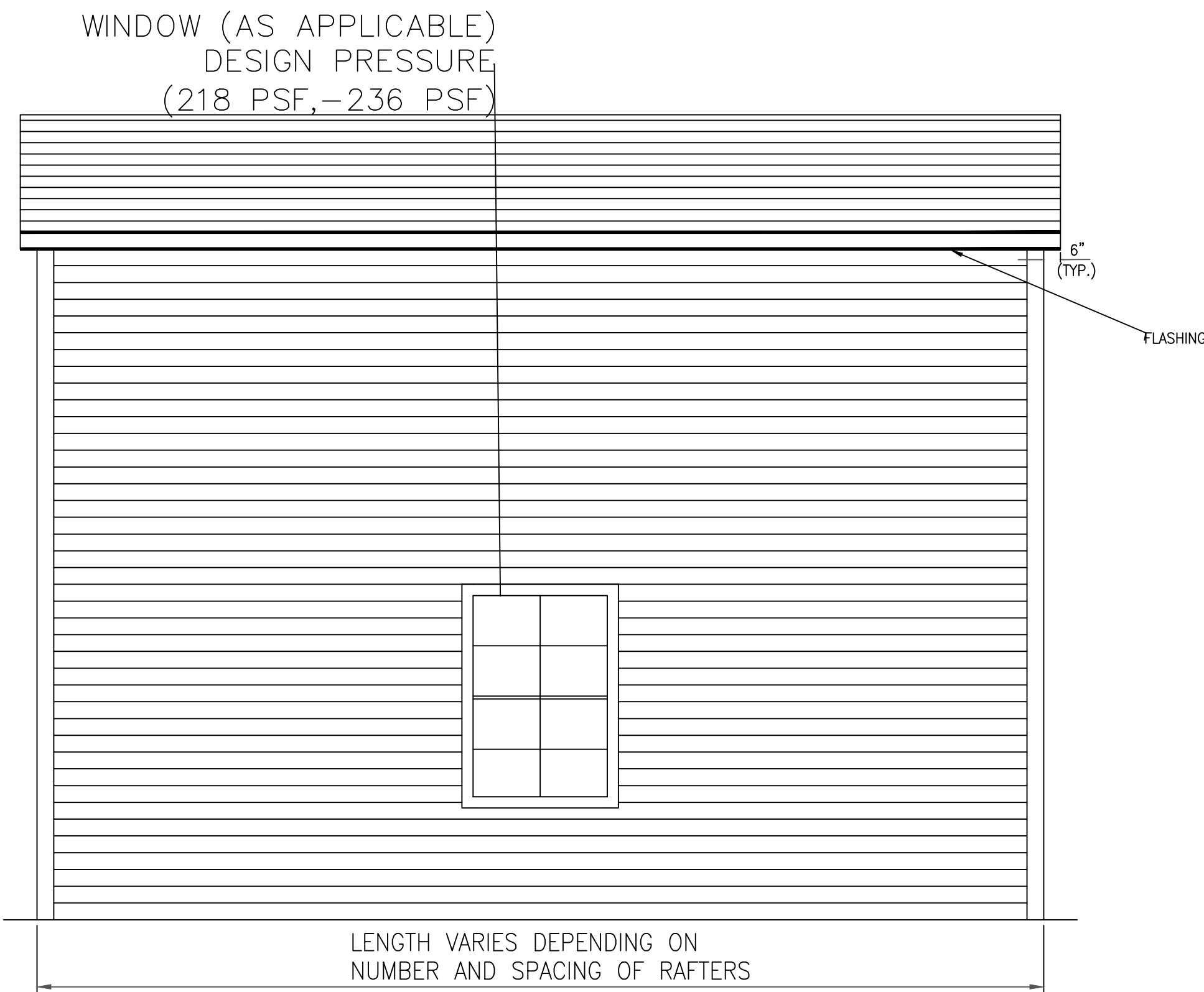
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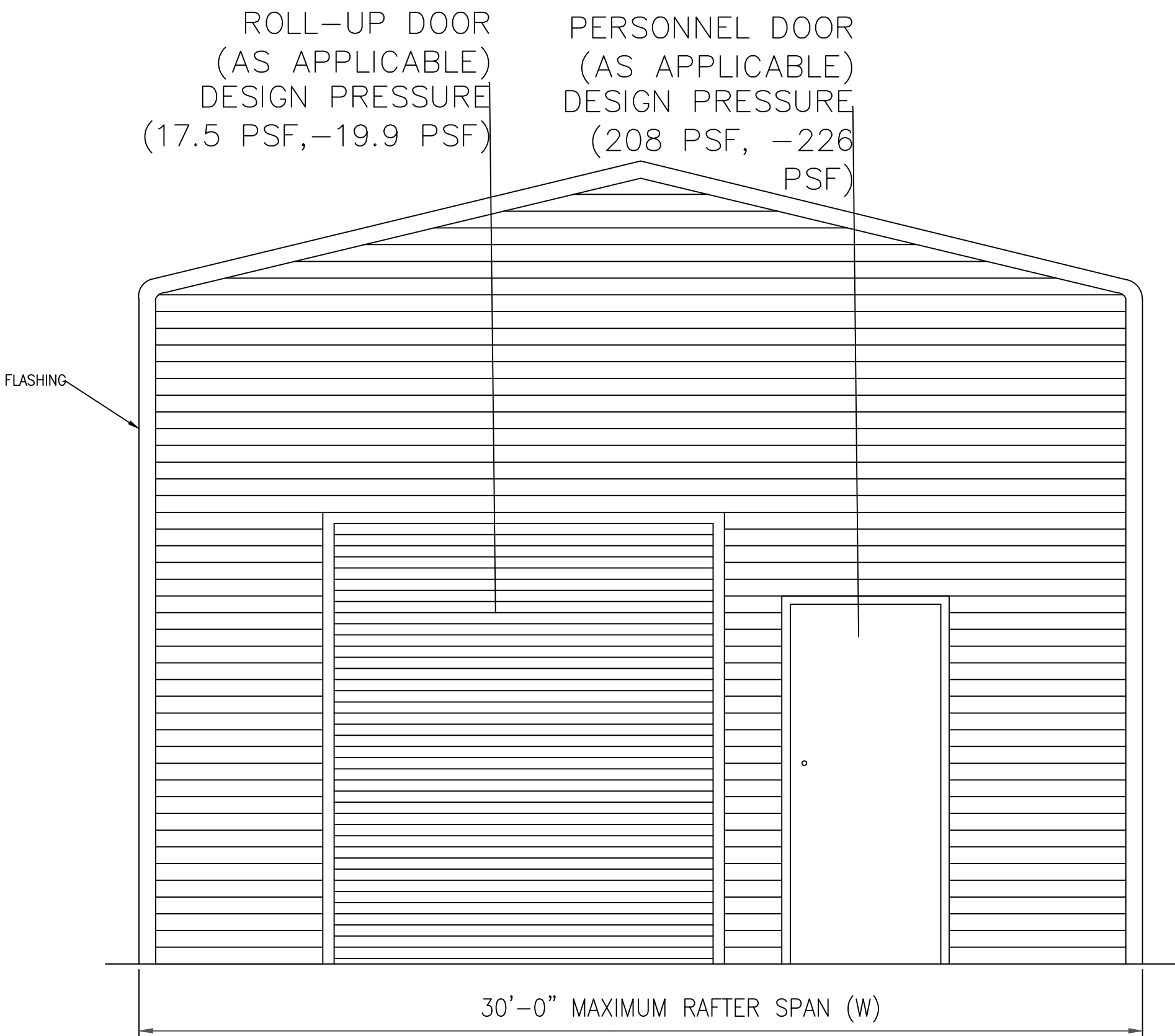
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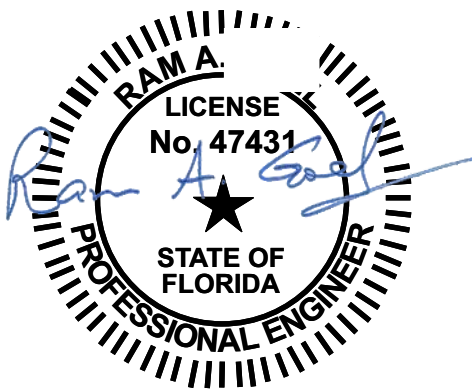
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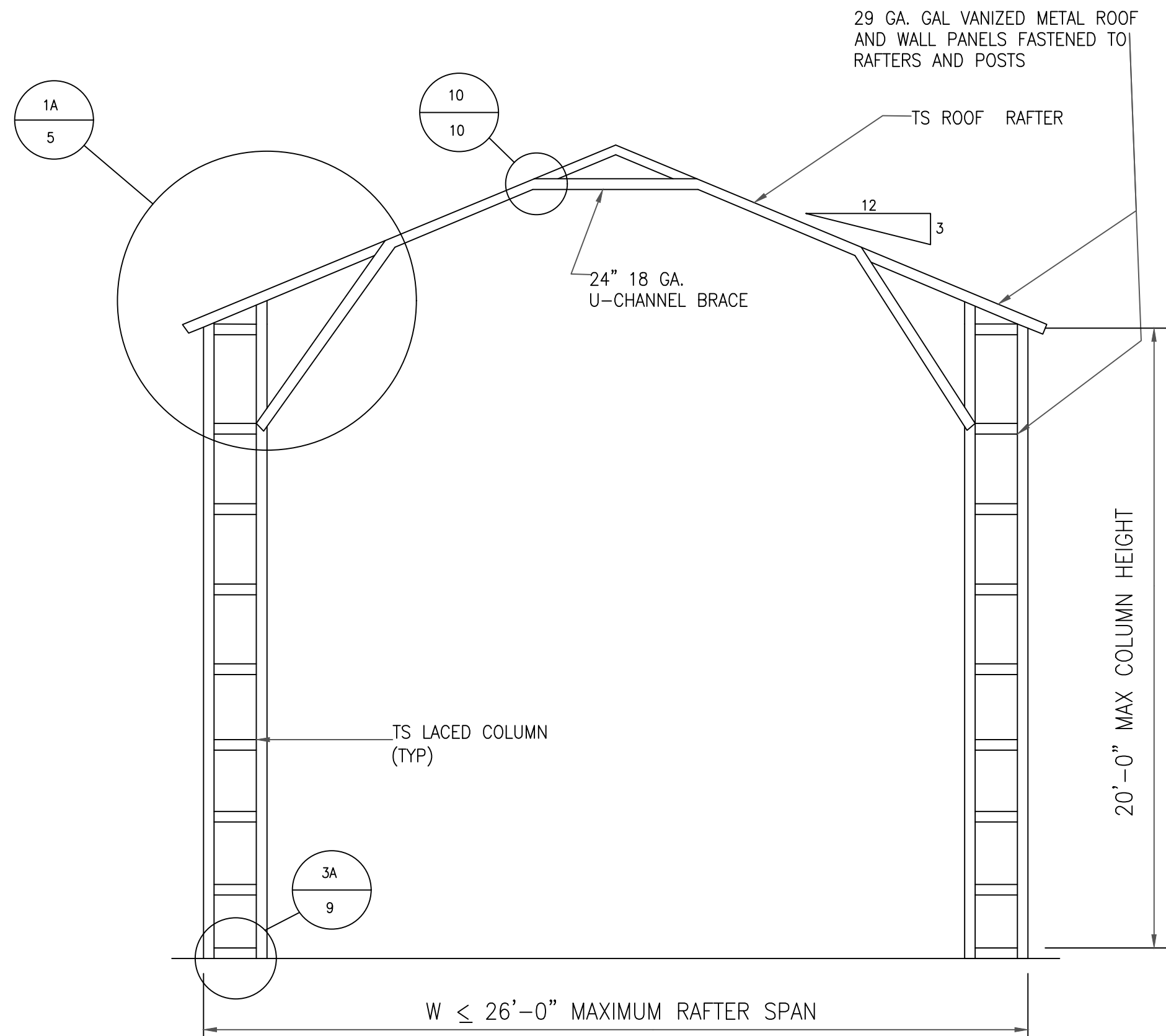


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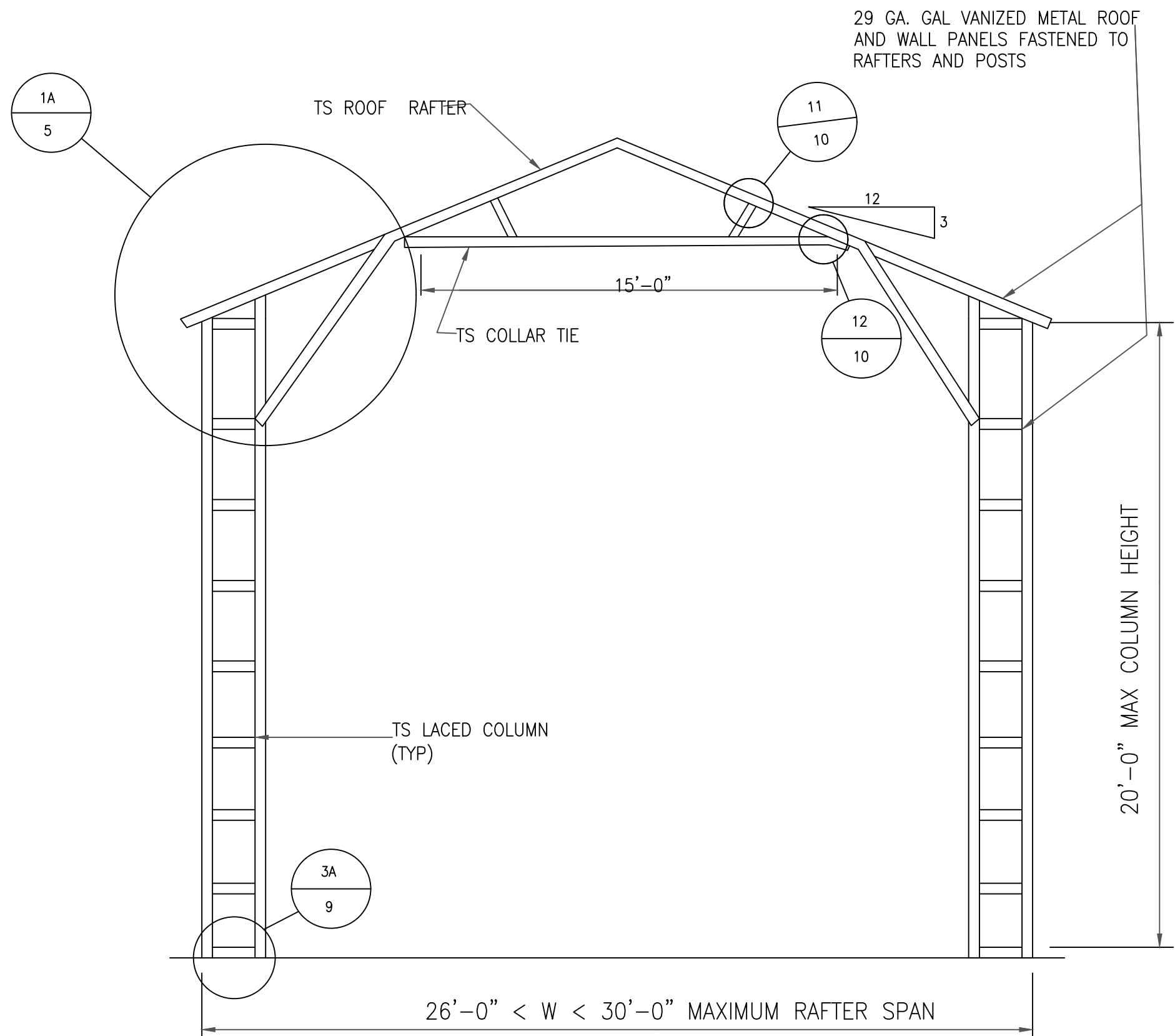
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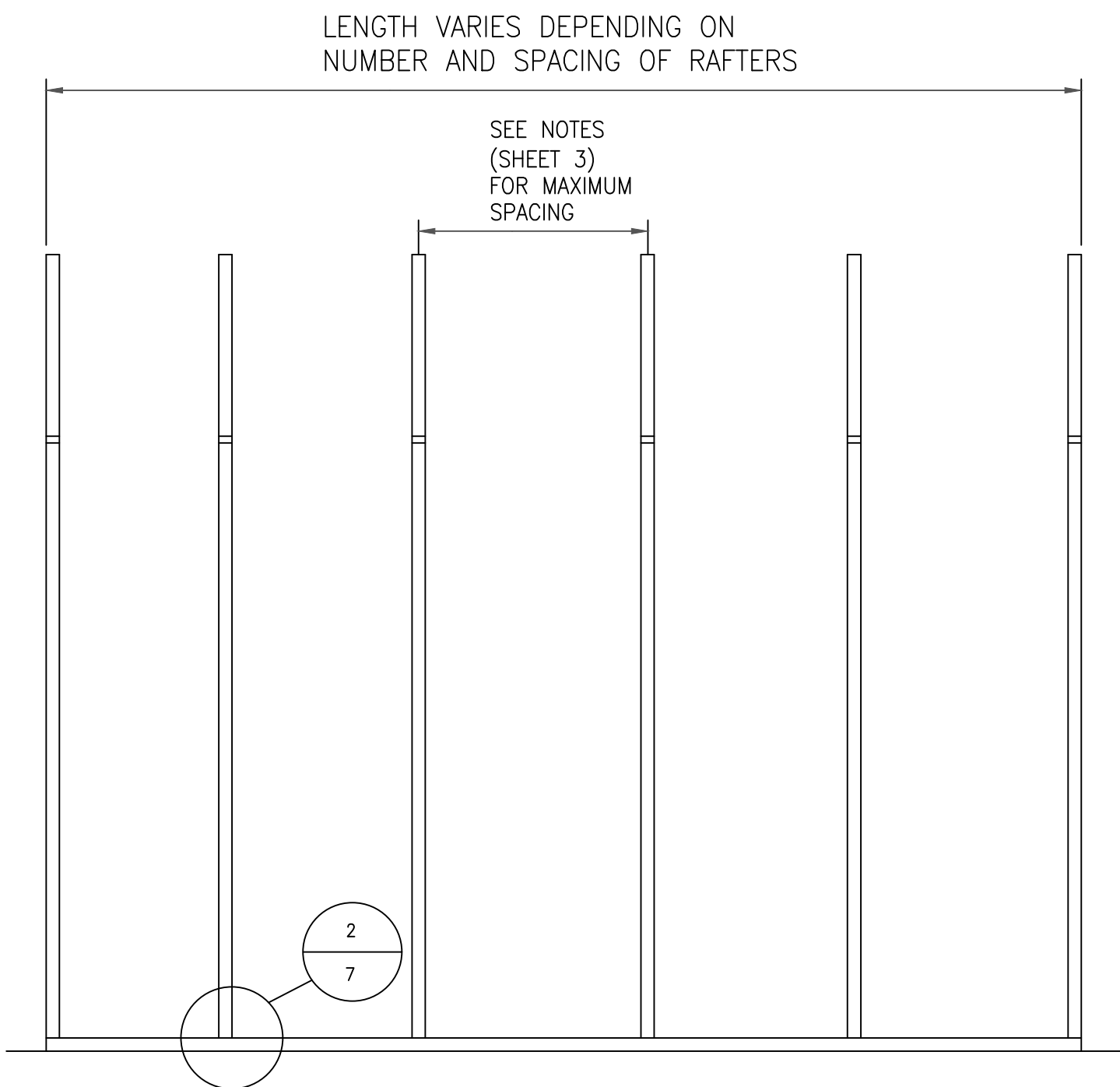
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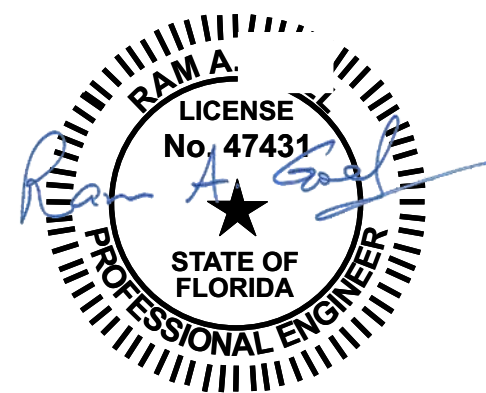
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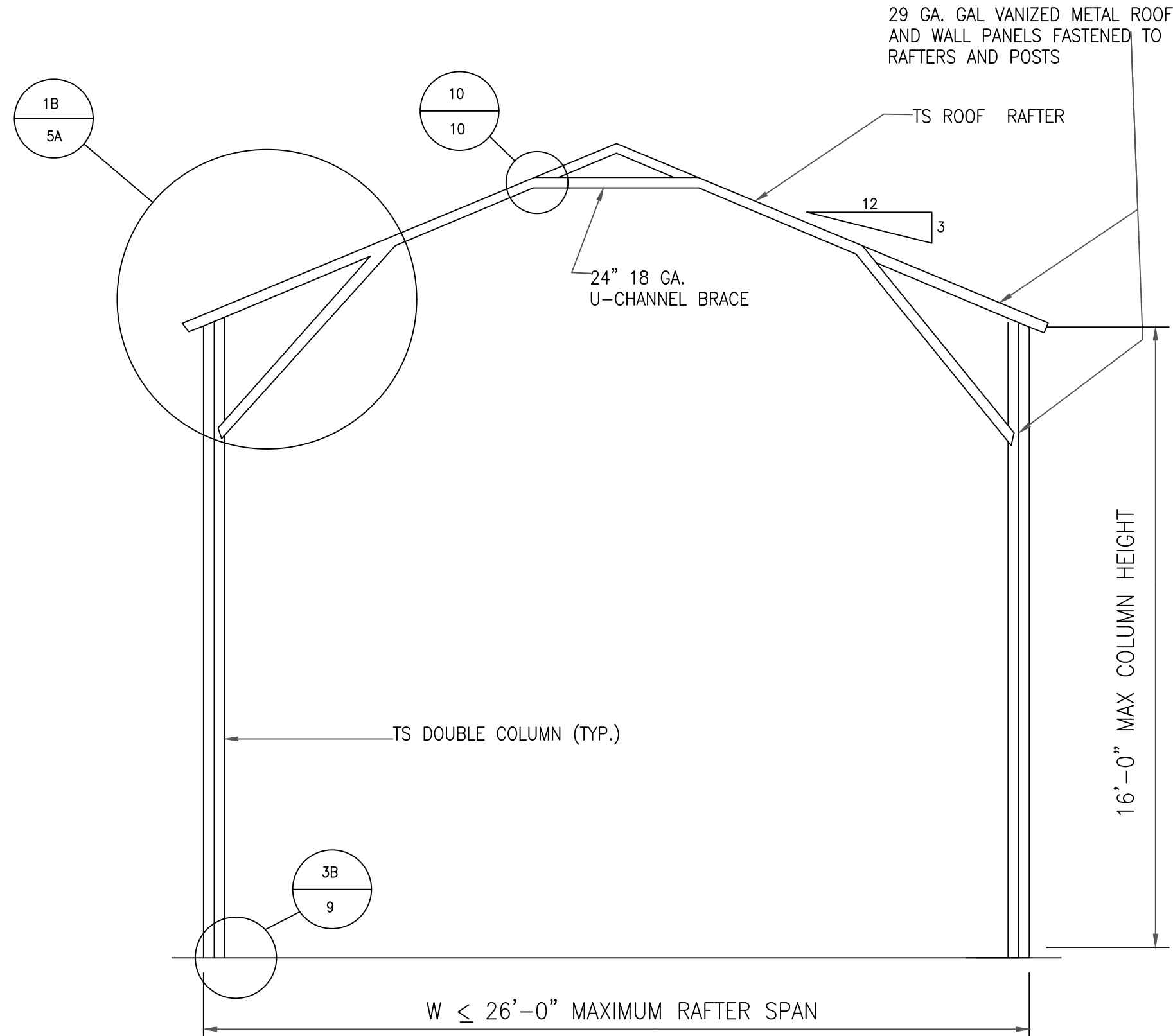
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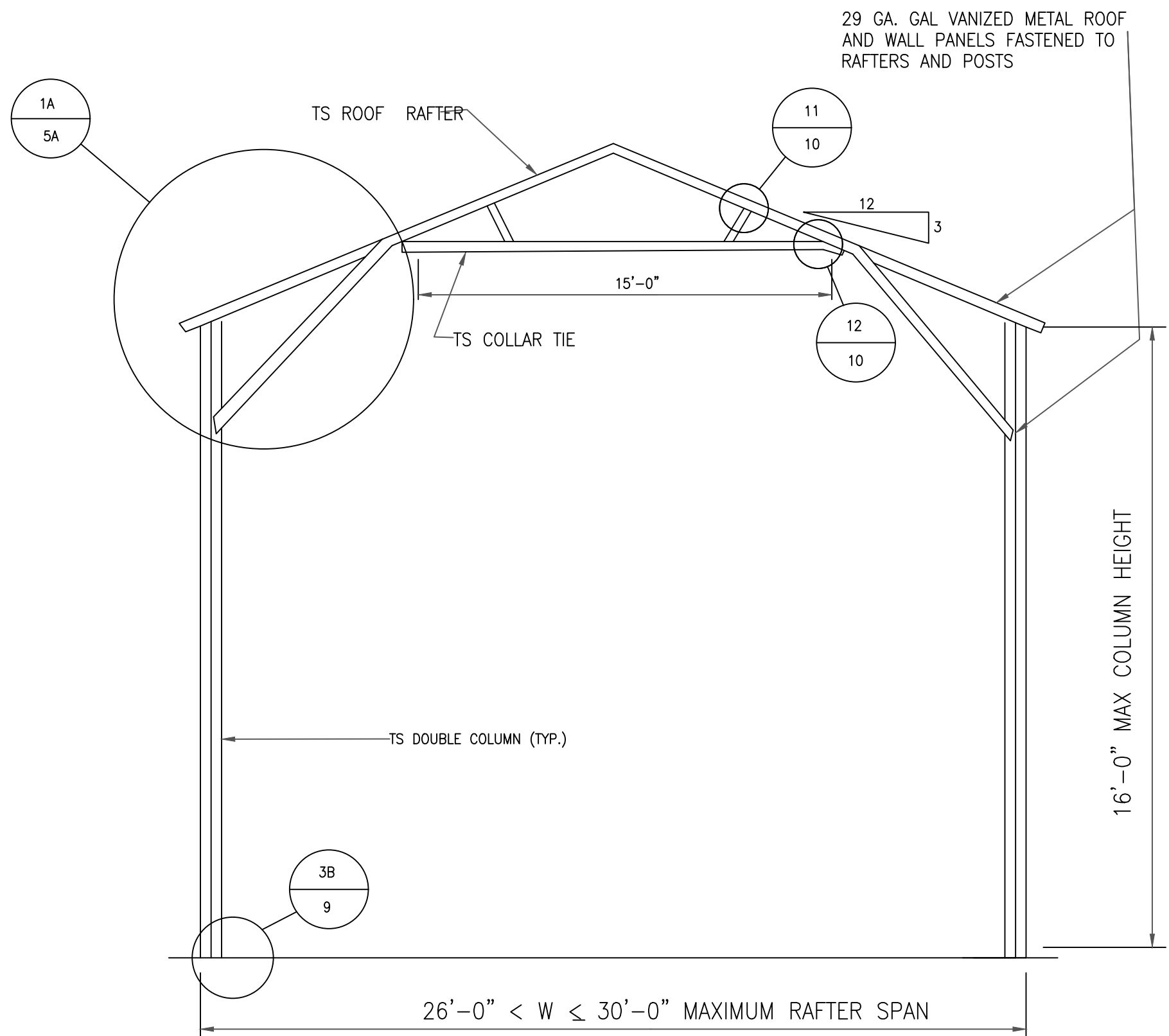
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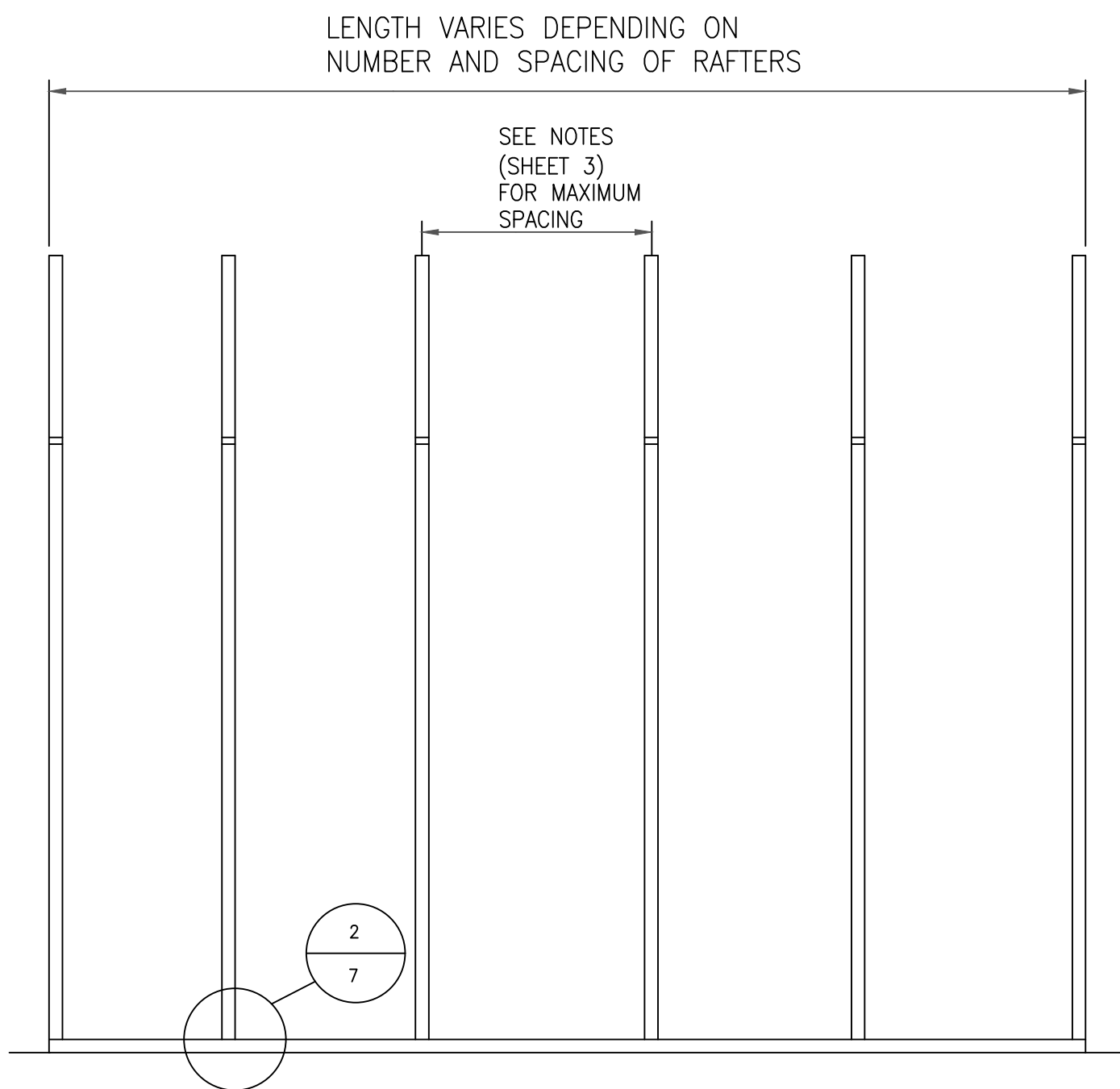
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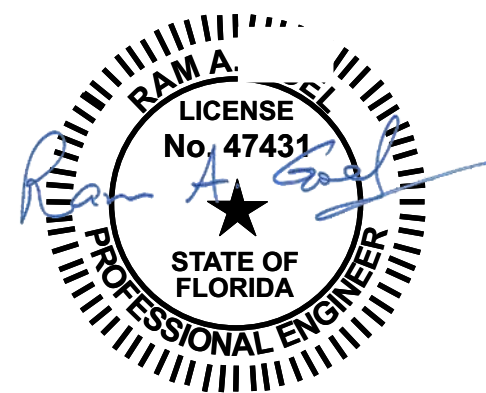
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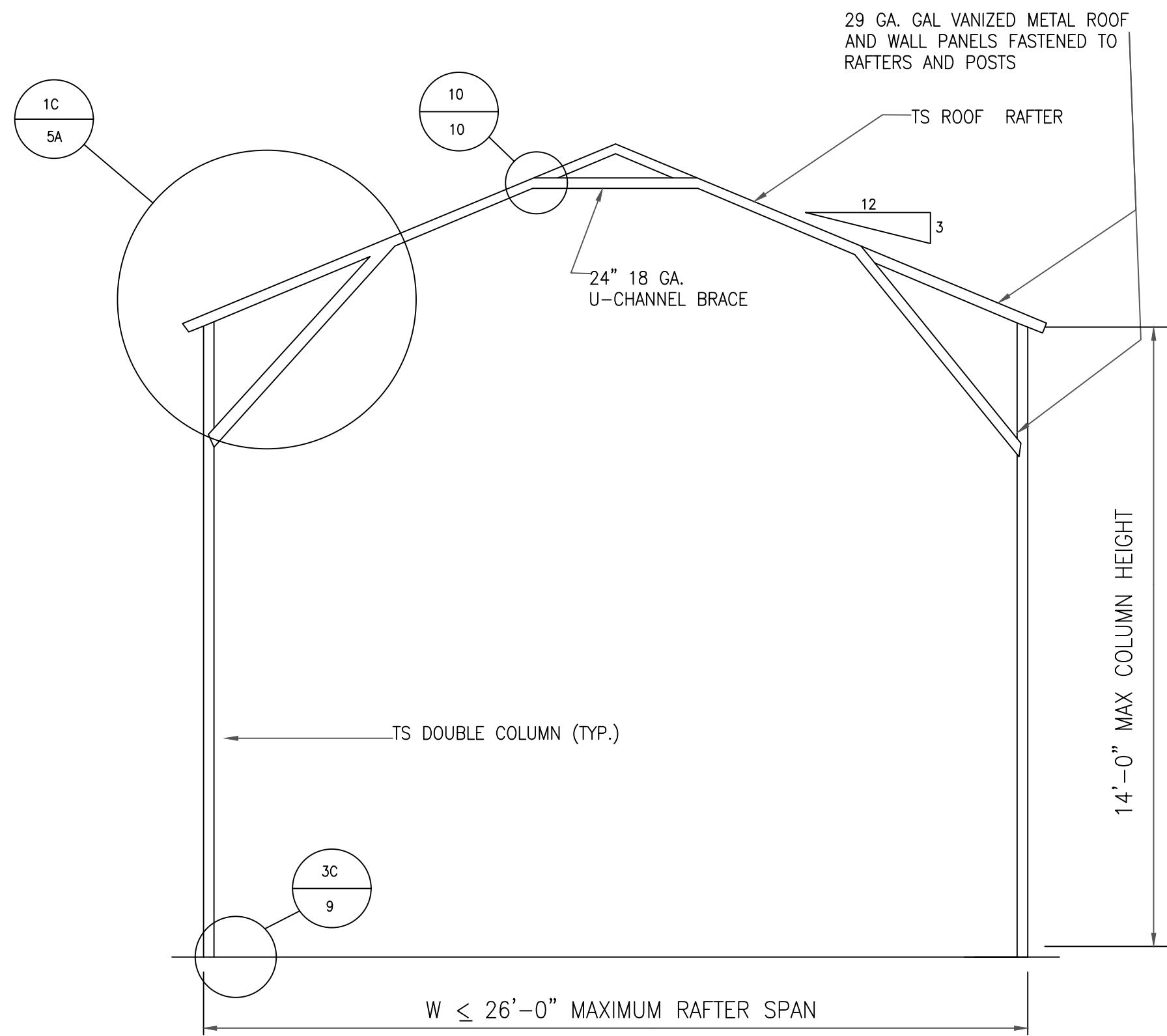
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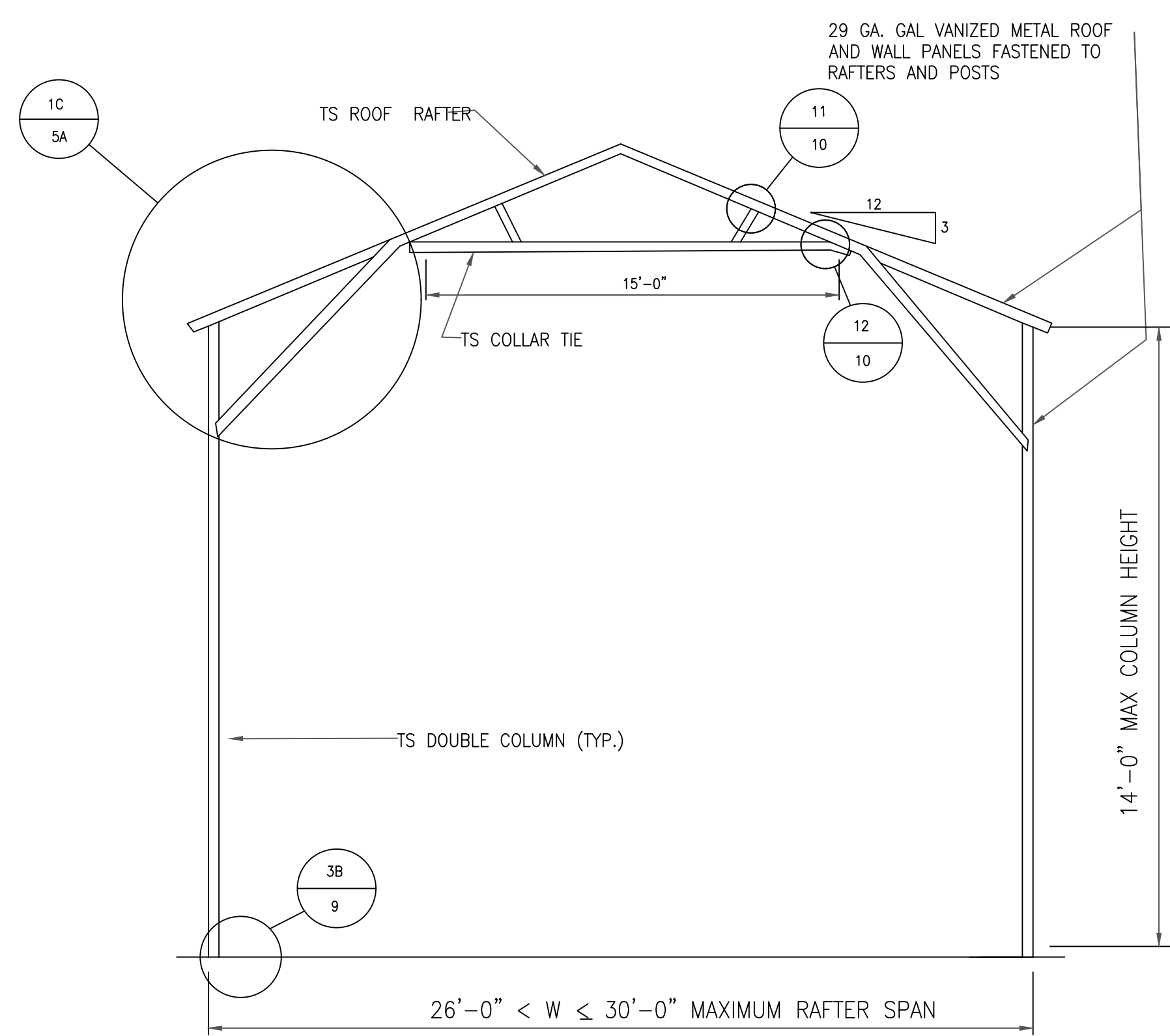
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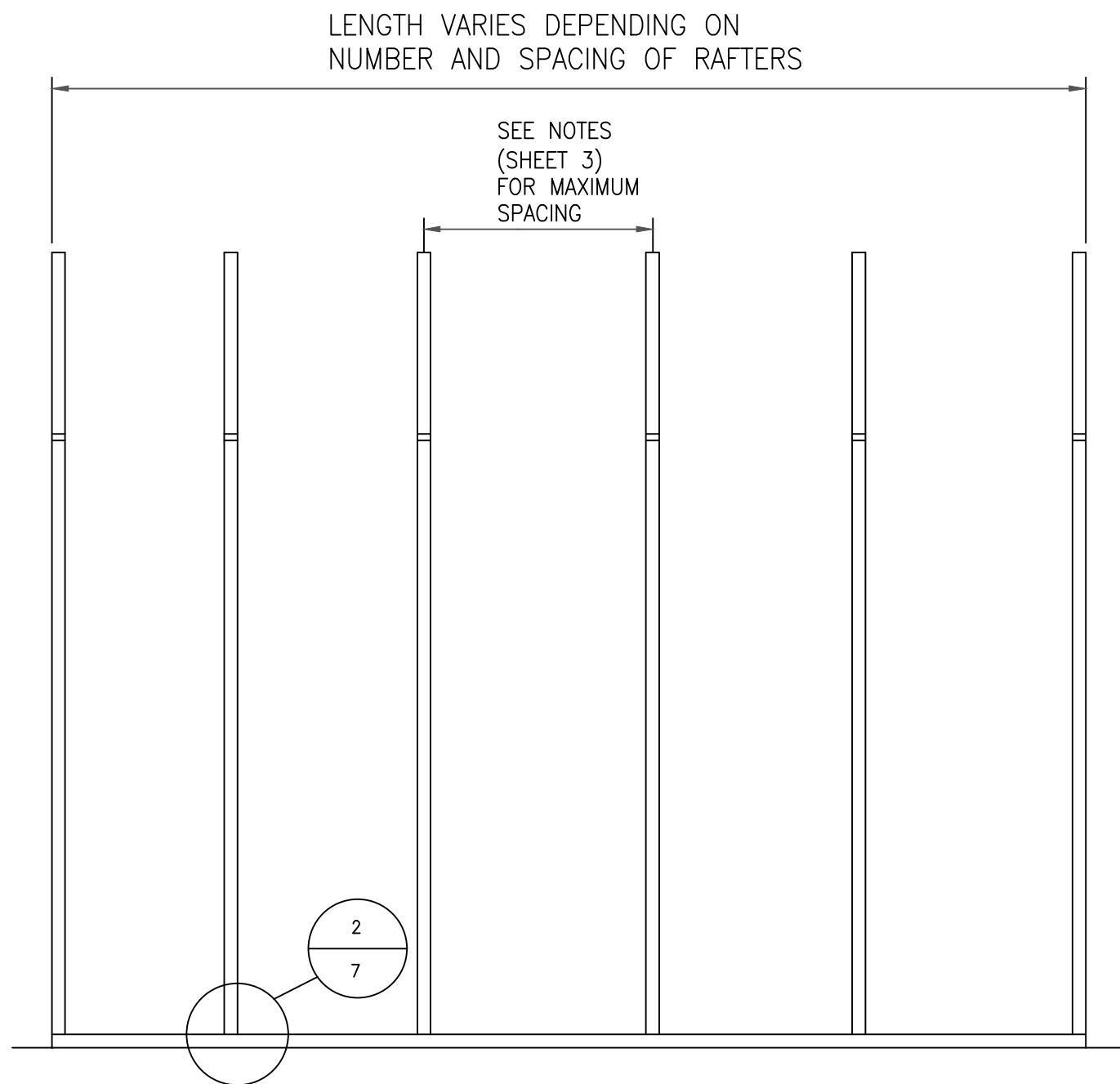
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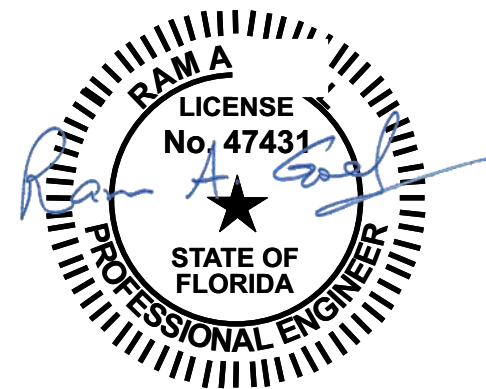
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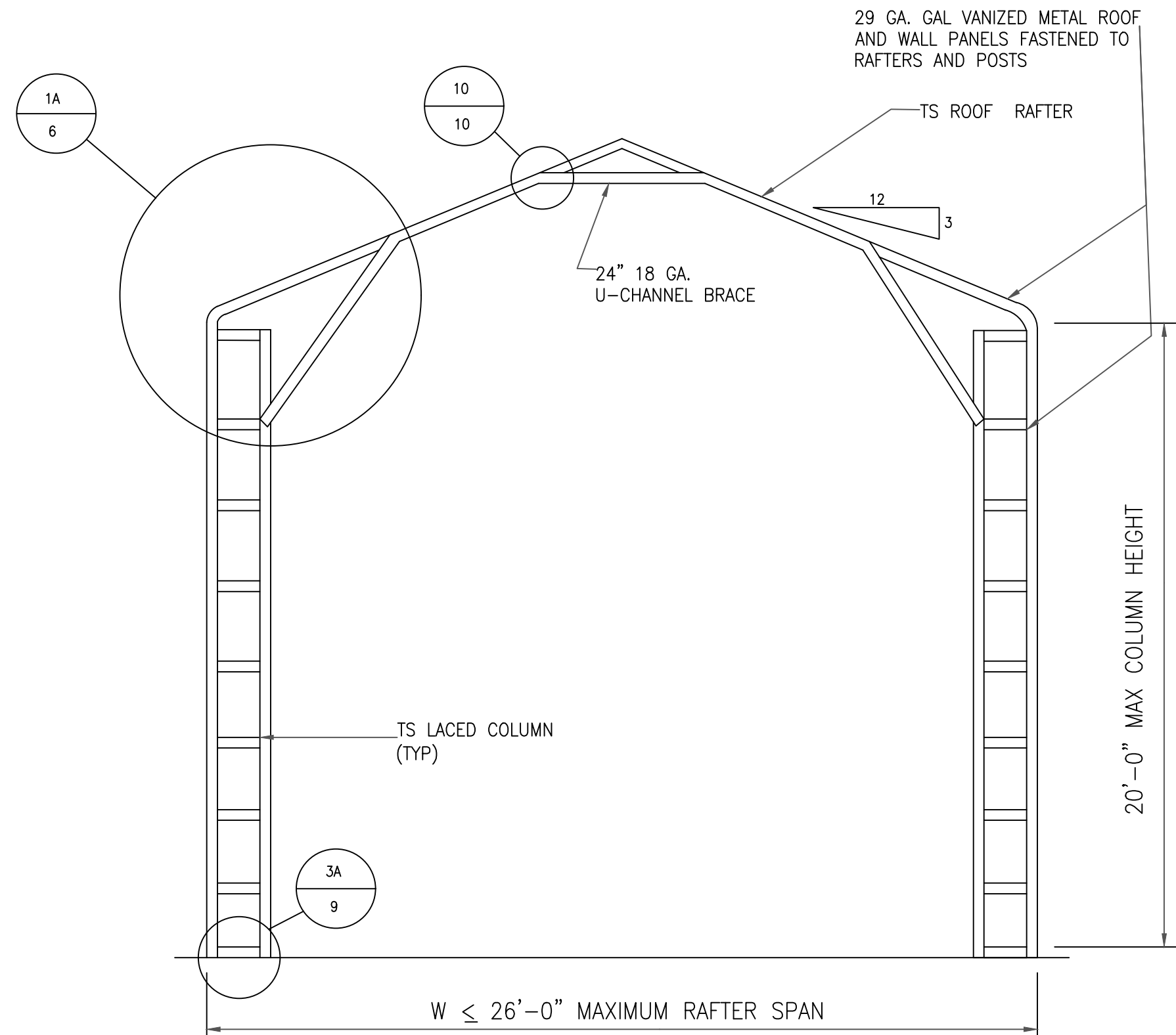
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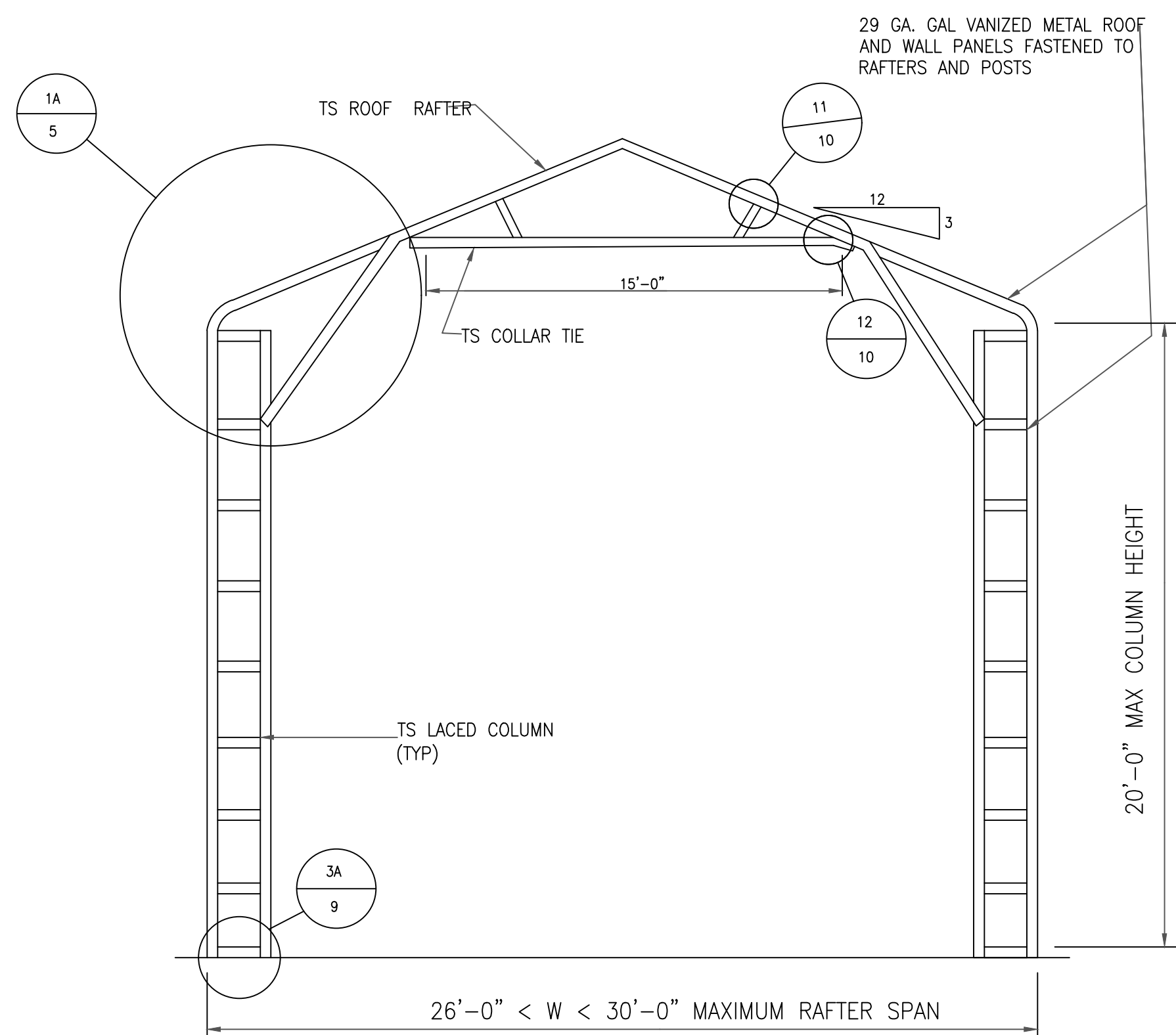
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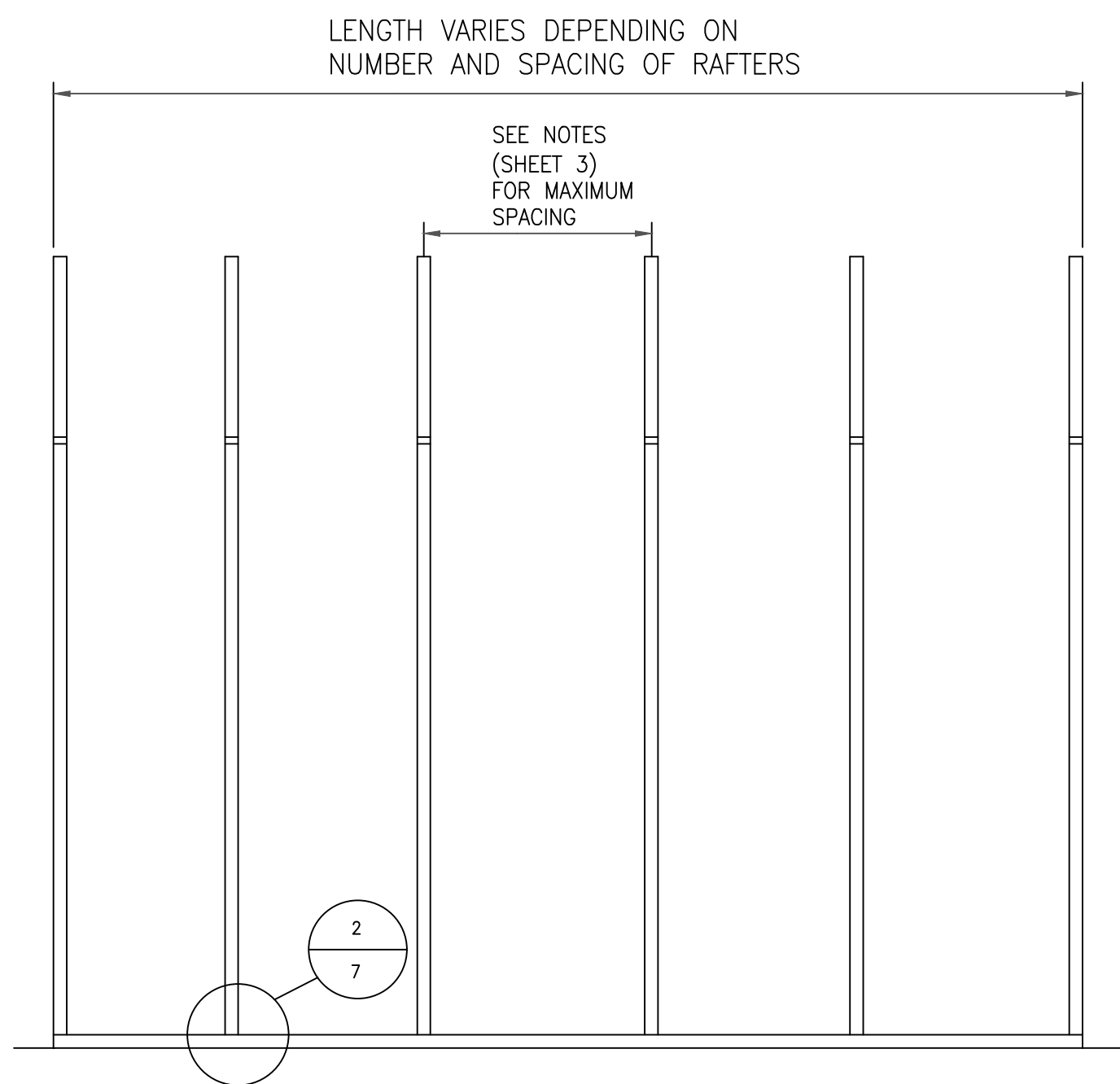
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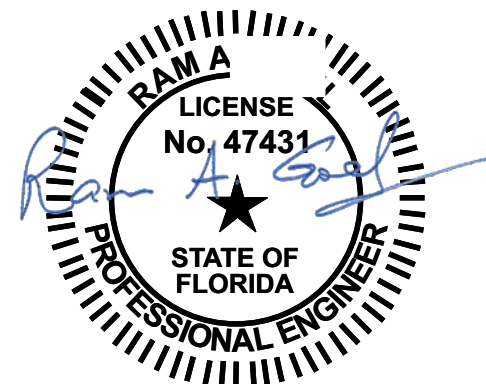
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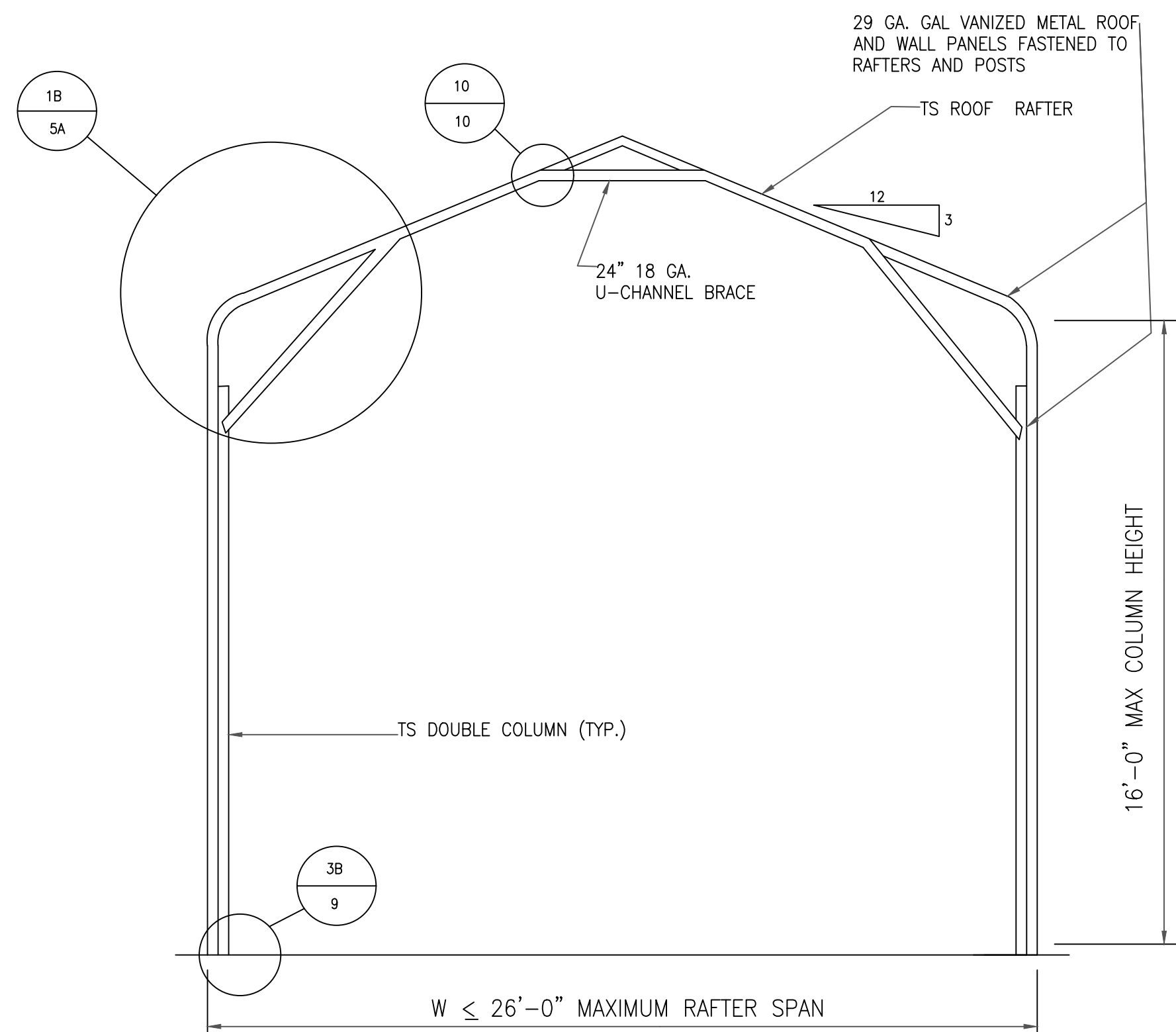
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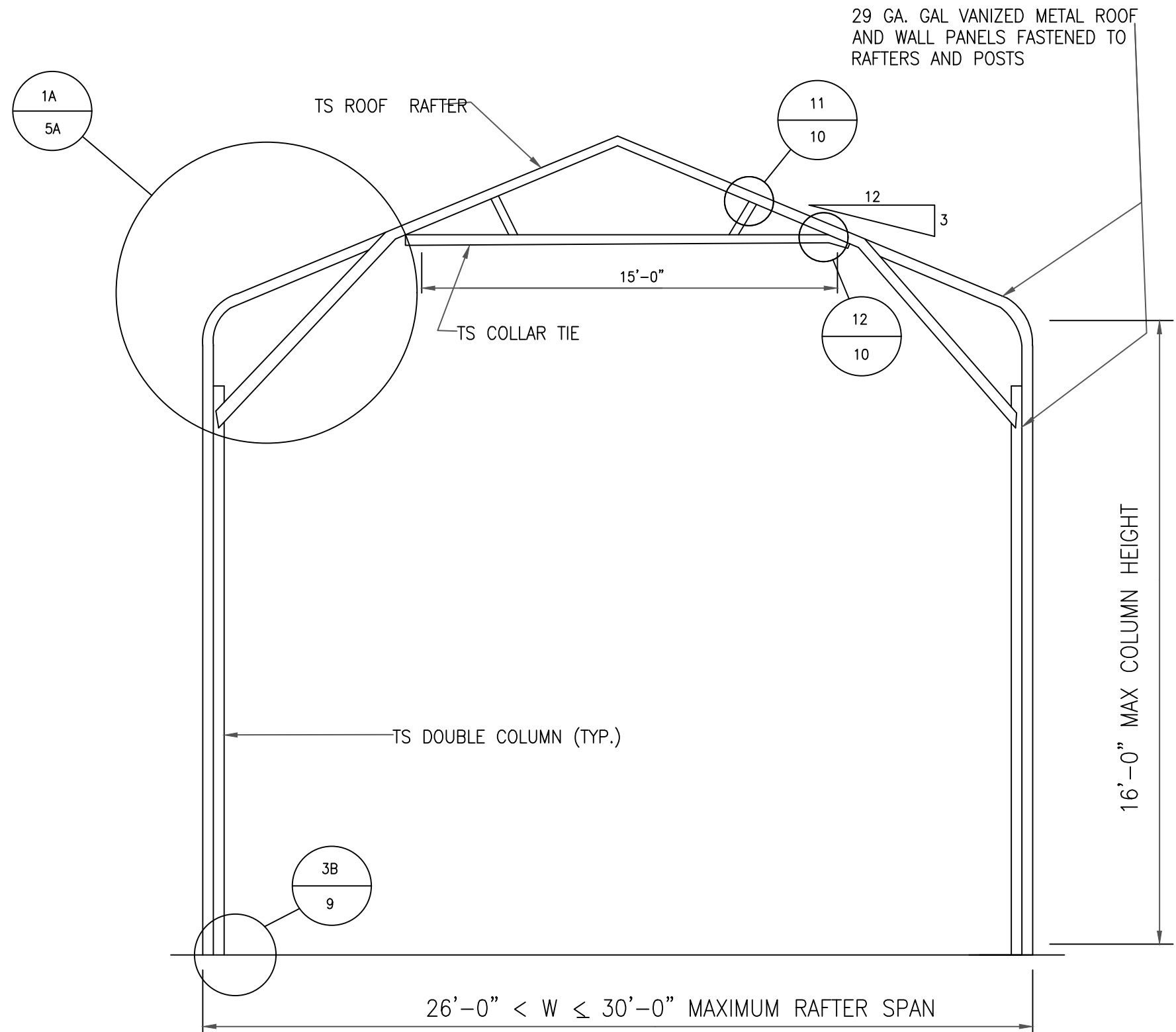
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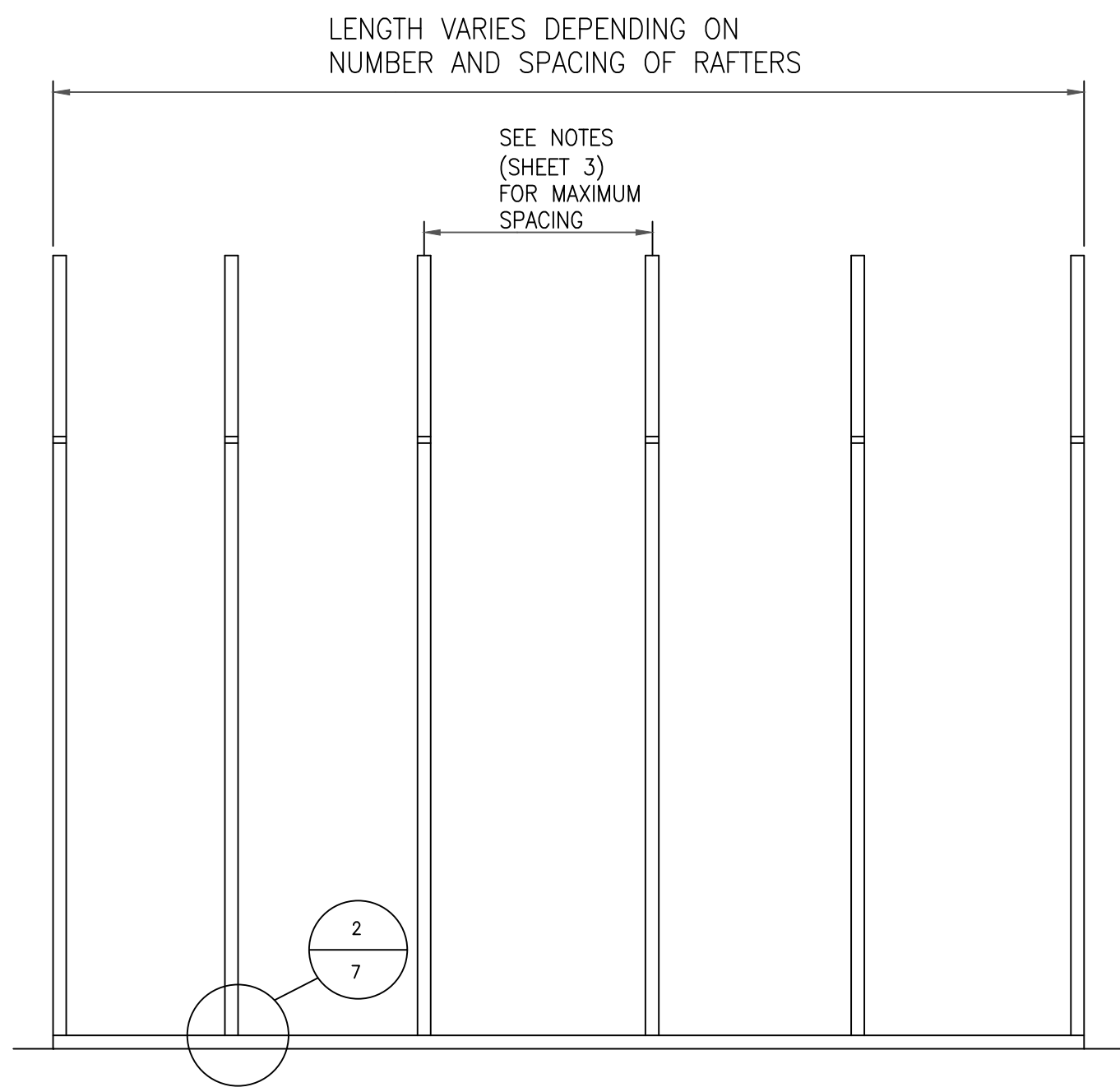
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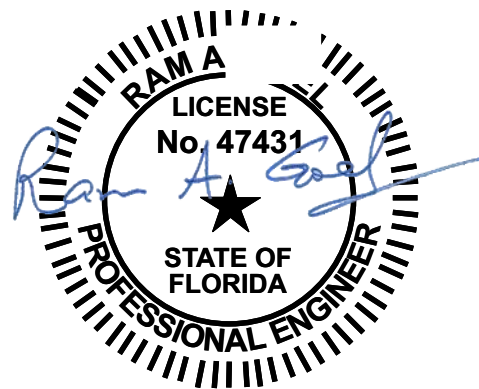
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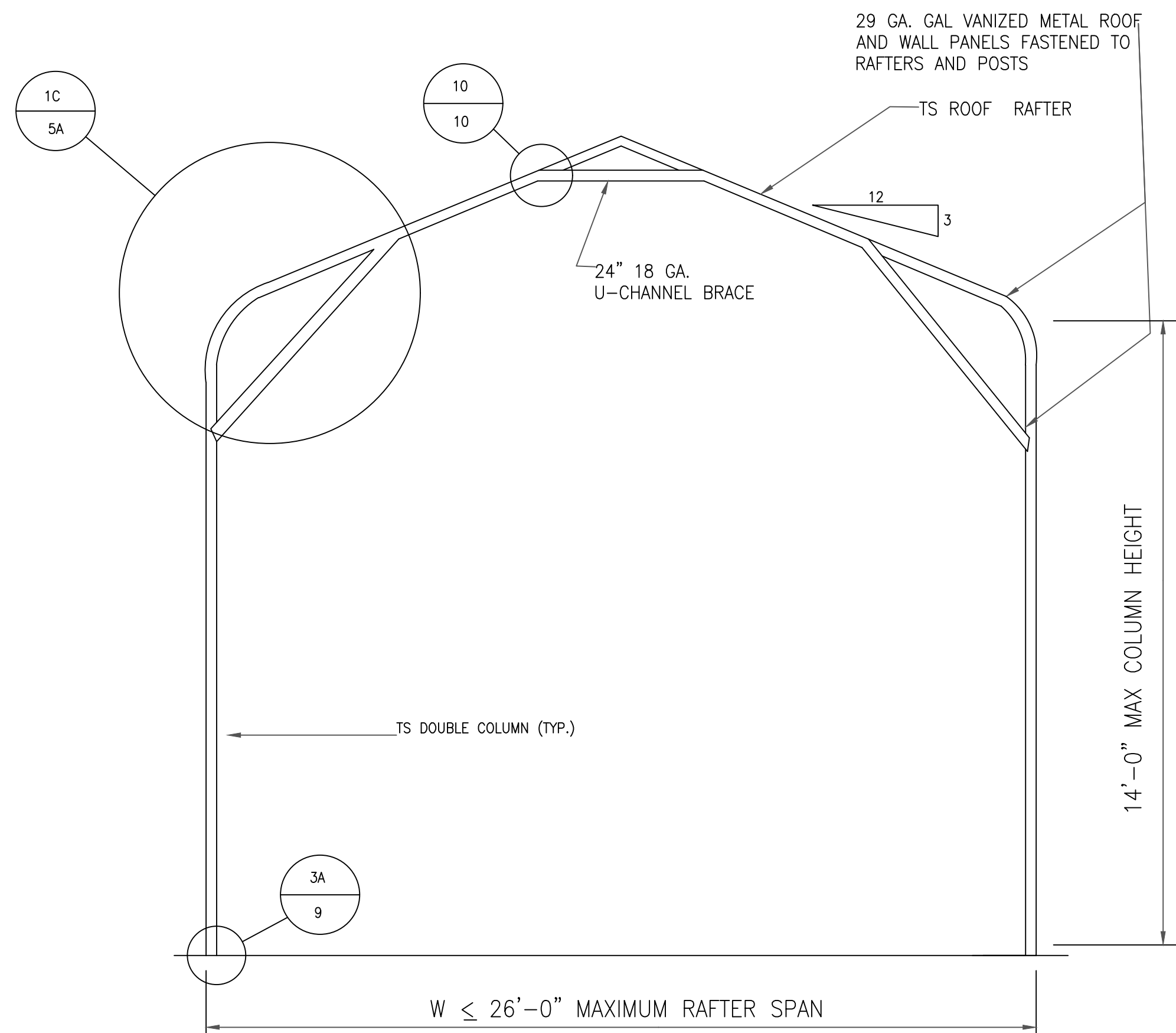
SONEY FM LLC
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Job # S2080
Drawn By: K.D.
Checked By: S.G.

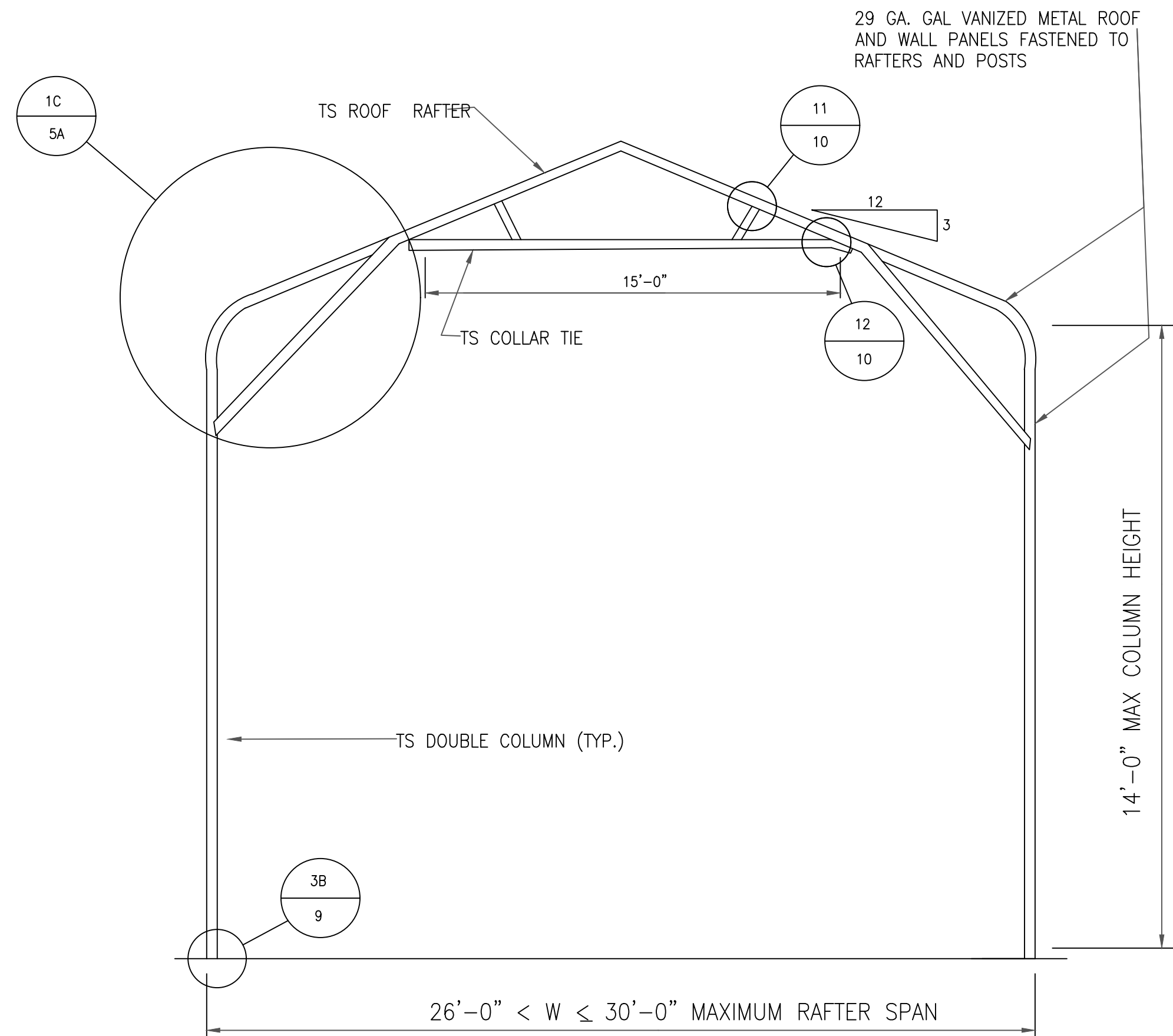
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BOX EAVE FRAME RAFTER STRUCTURE

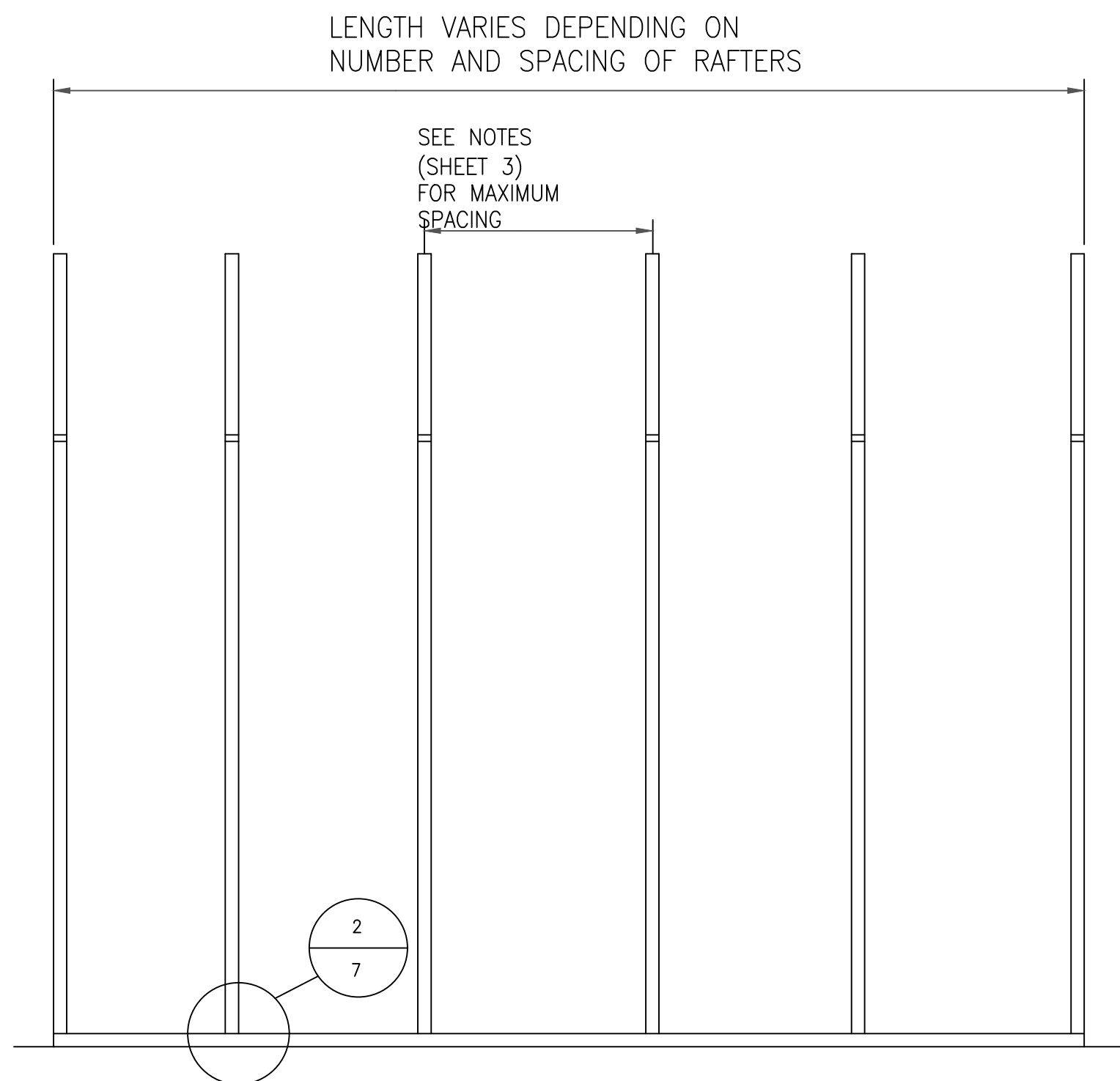
ELITE METAL MANUFACTURING, LLC
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LIVE OAK, FL 32060



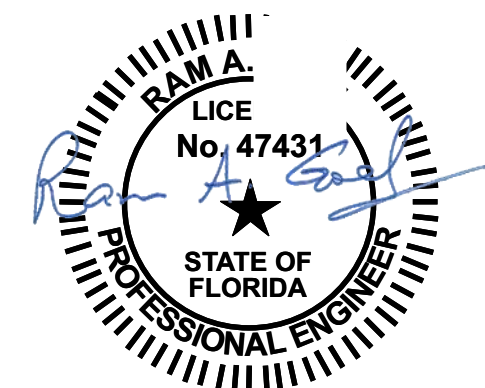
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: N.T.S.



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: N.T.S.



TYPICAL RAFTER/COLUMN FRAME SECTION
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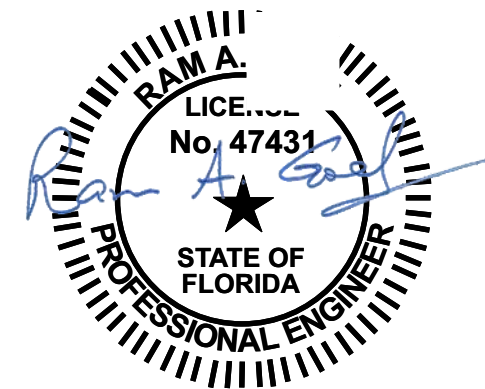
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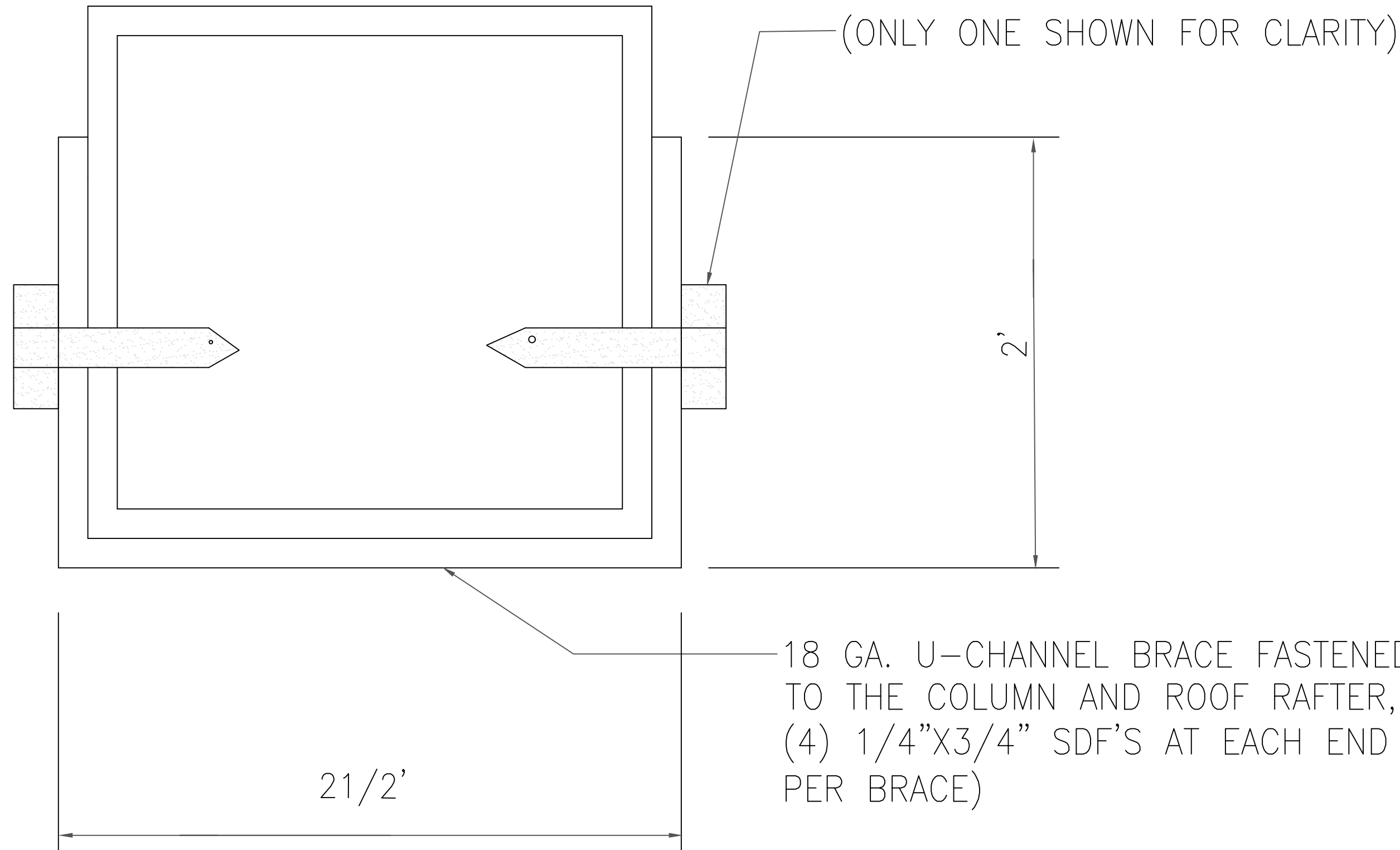
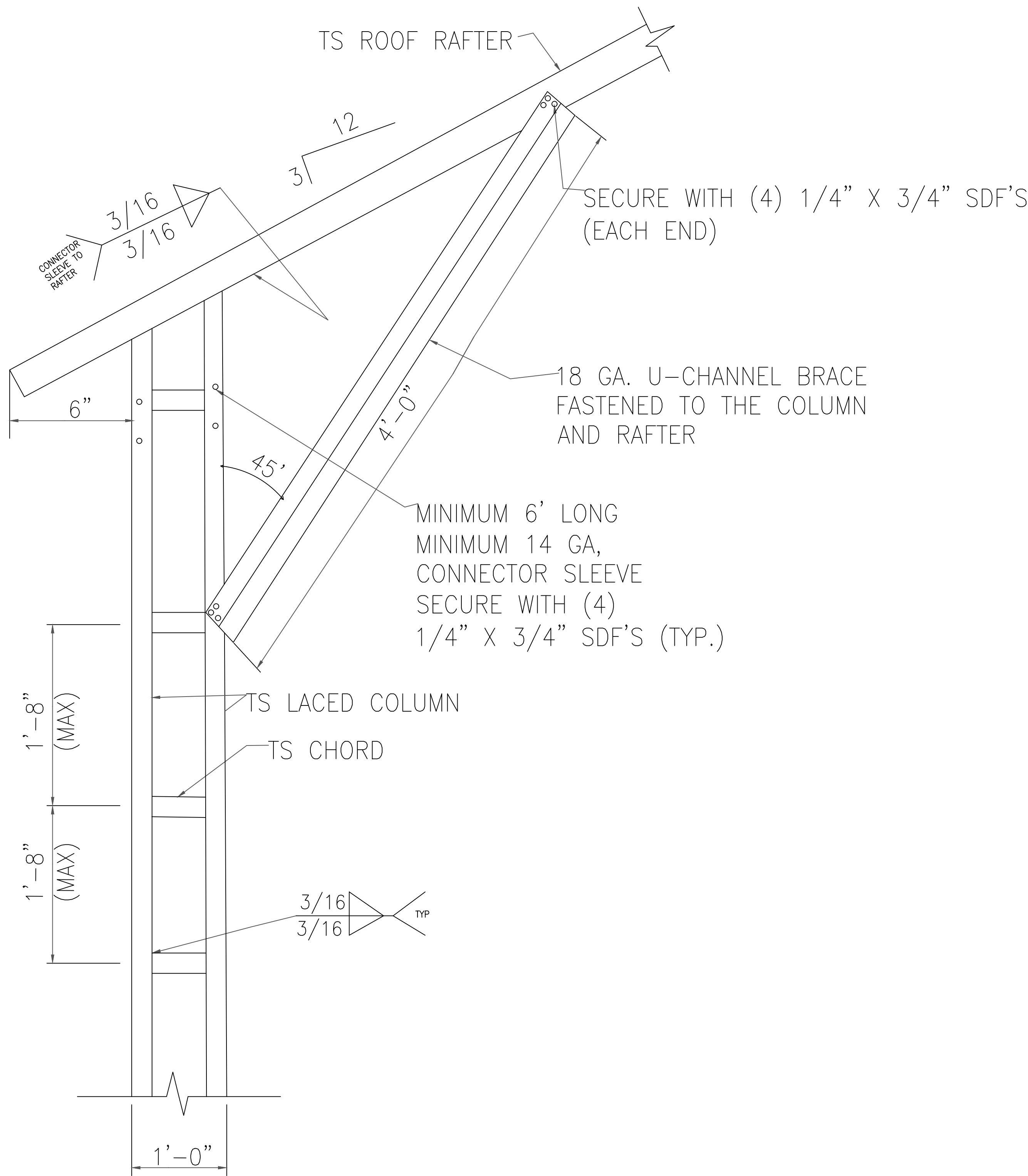


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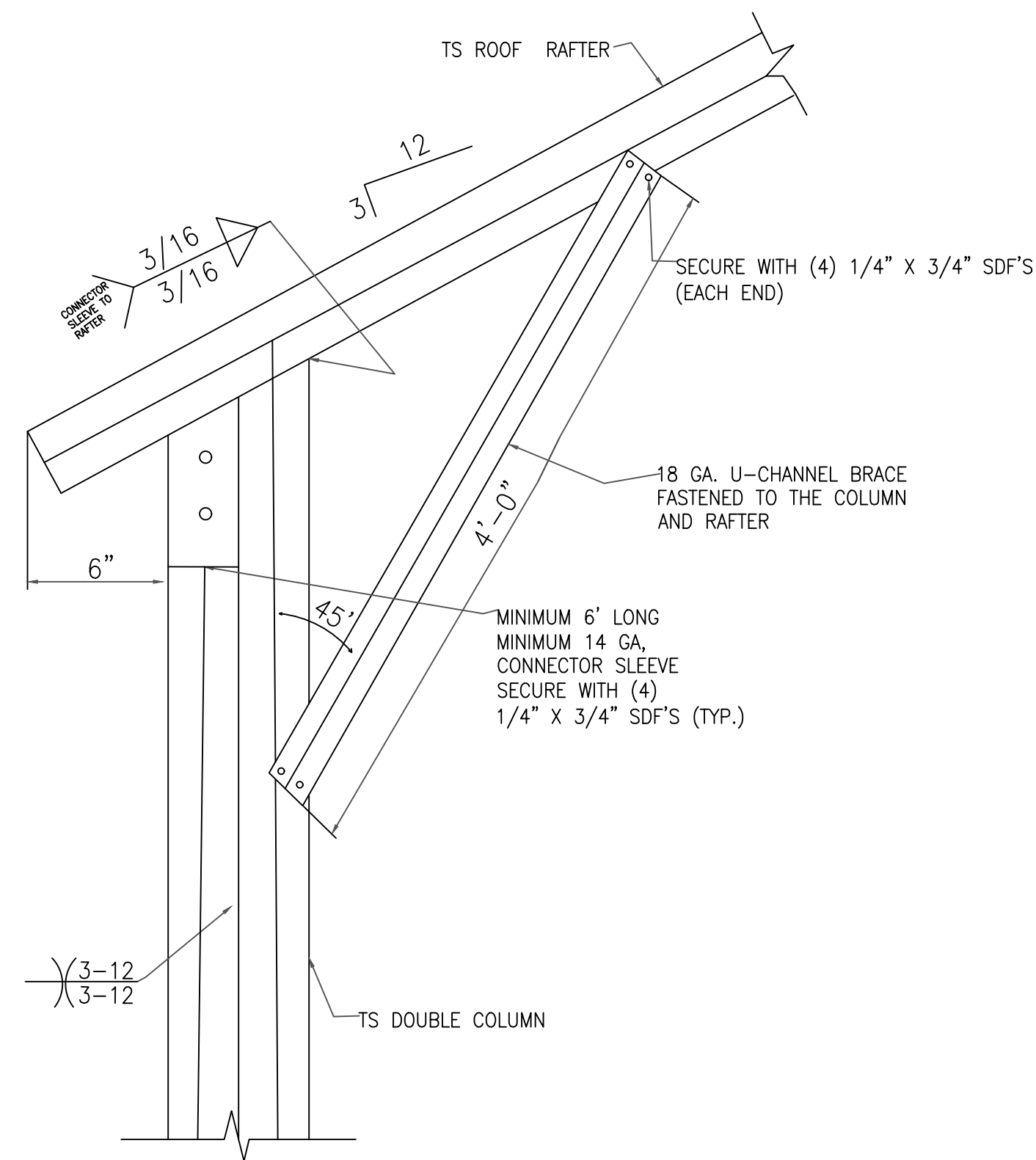
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BRACE SECTION
SCALE: N.T.S.

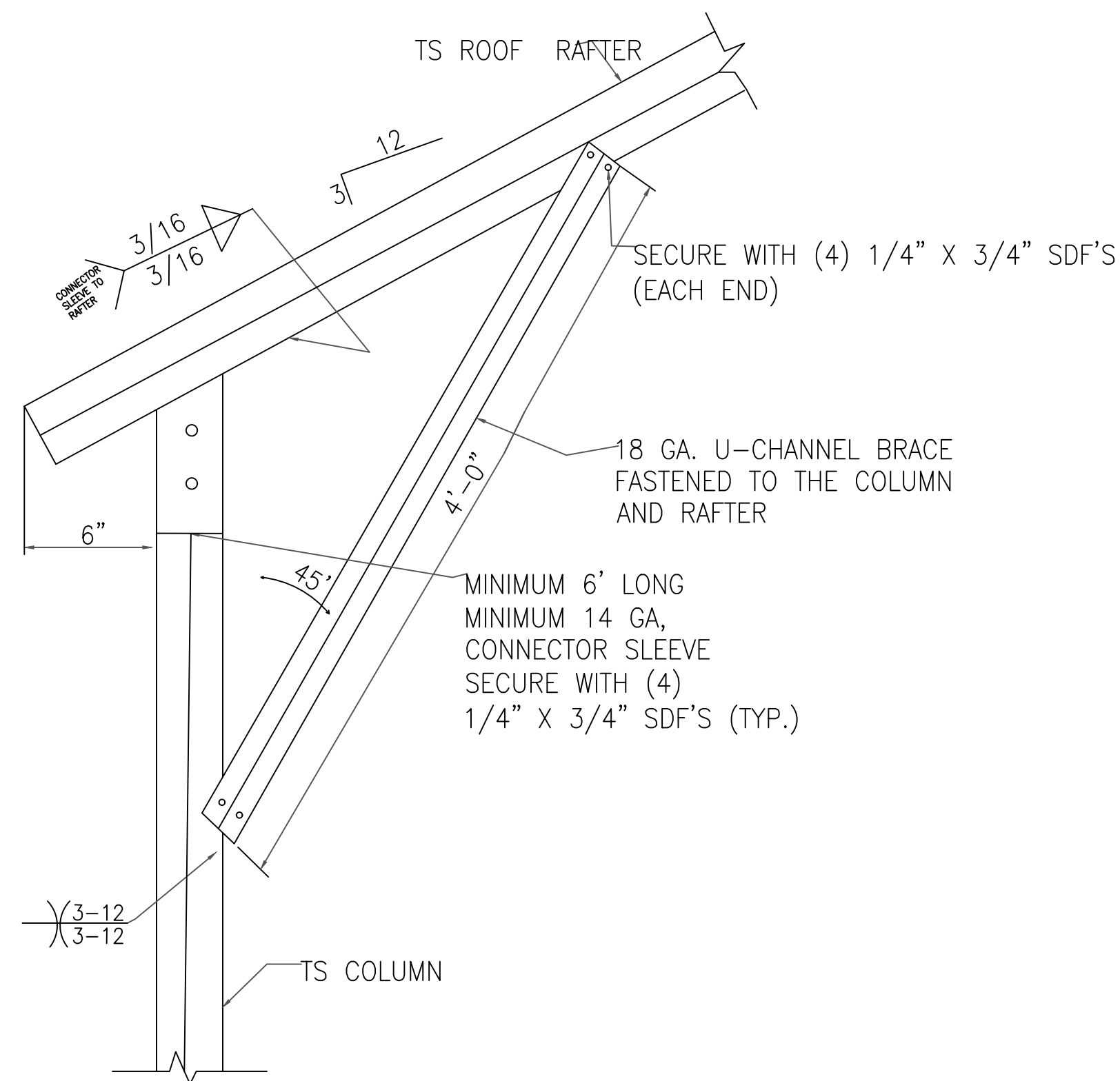
BOX EAVE RAFTER/CORNER POST
CONNECTION DETAIL
FOR HEIGHTS 16'-0" < TO ≤ 20'-0"
SCALE: NTS

1A



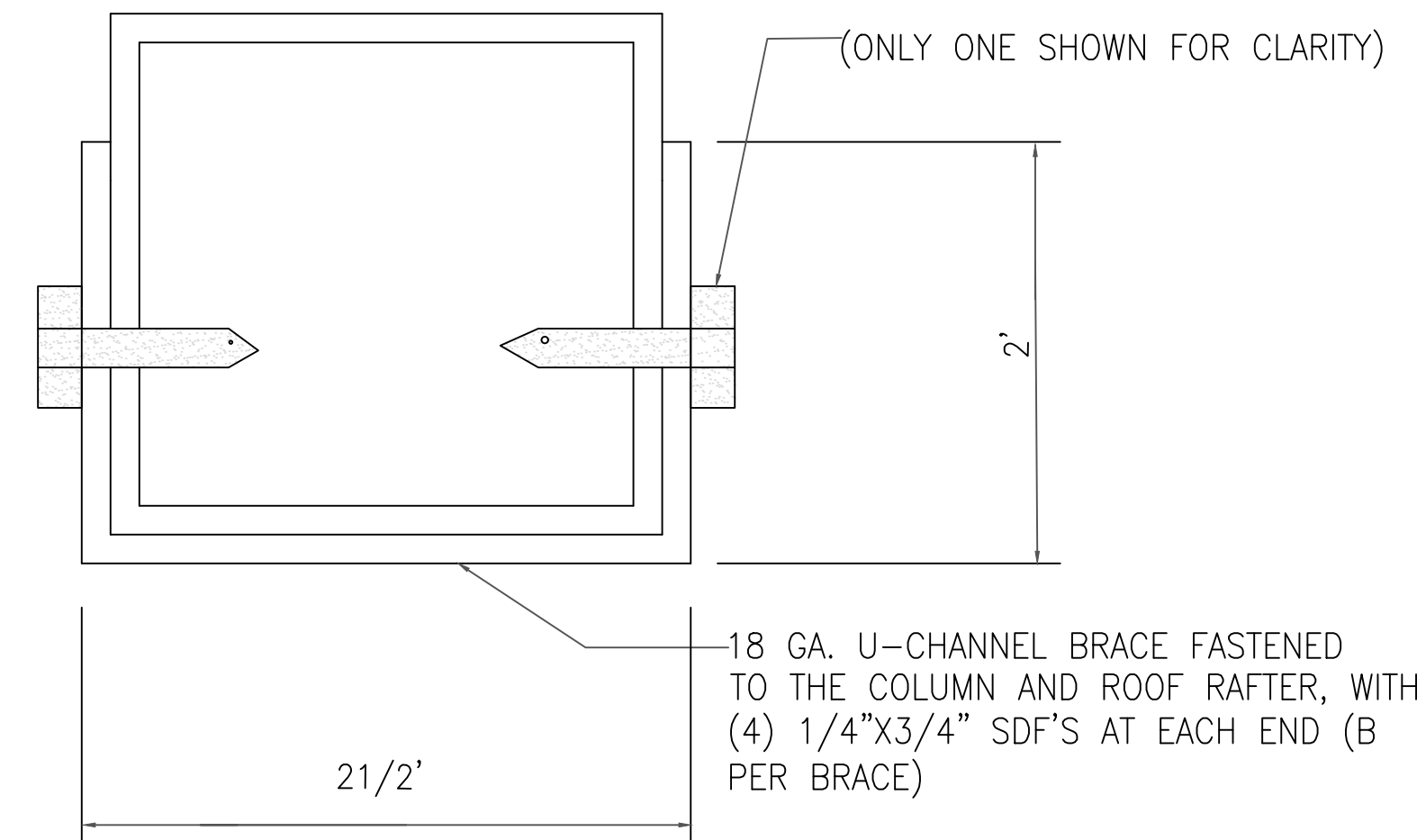
BOX EAVE RAFTER/CORNER POST
CONNECTION DETAIL
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SCALE: NTS

1B

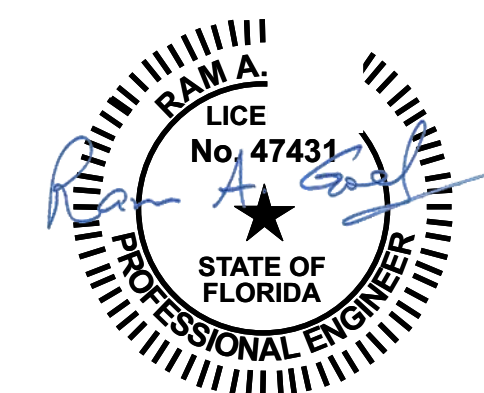


BOX EAVE RAFTER/CORNER POST
CONNECTION DETAIL
FOR HEIGHTS ≤ 12'-0"
SCALE: NTS

1C



BRACE SECTION
SCALE: N.T.S.



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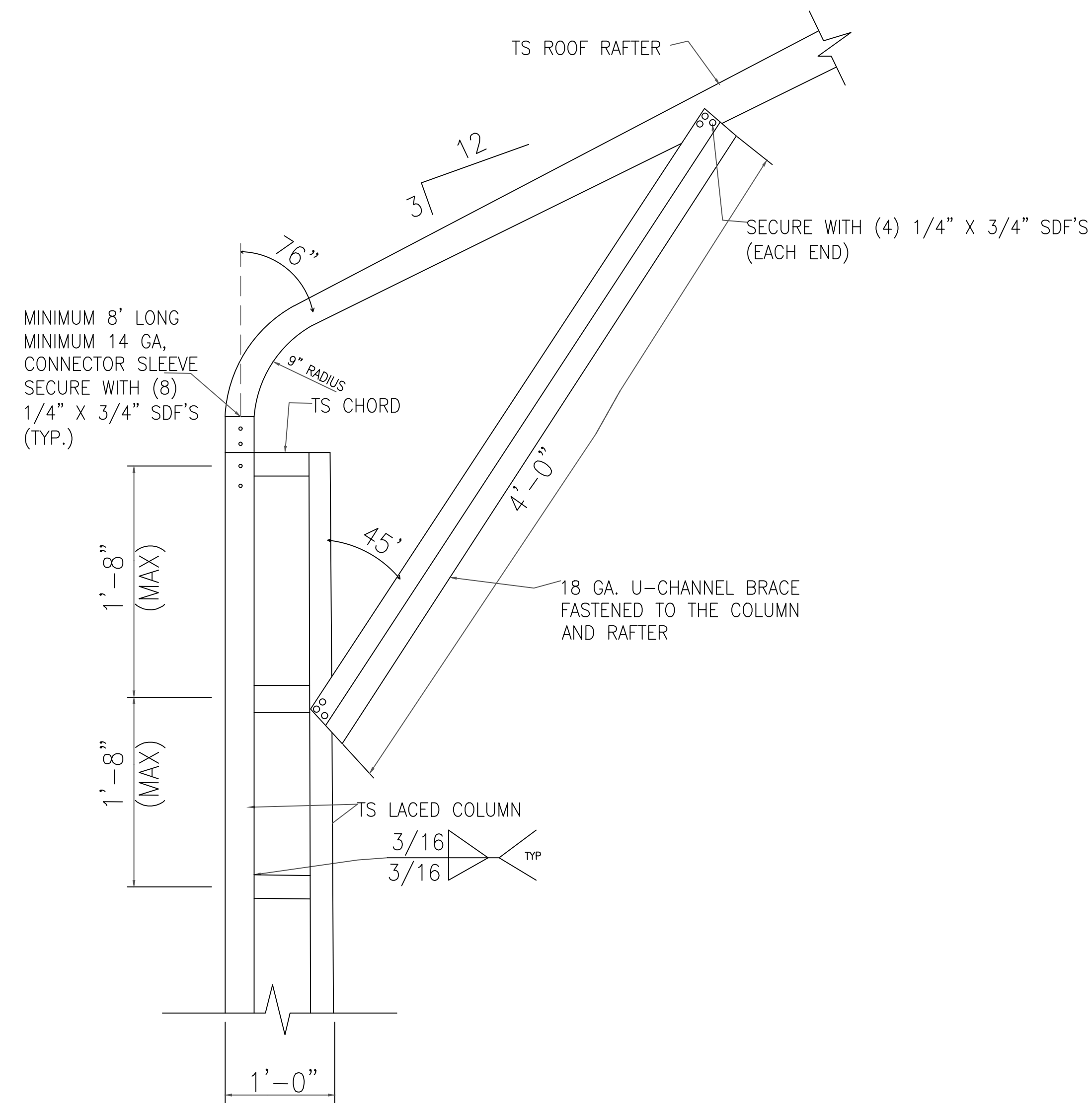
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Issue Date: 08-18-21

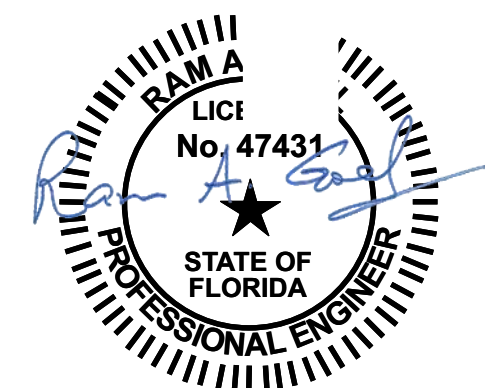
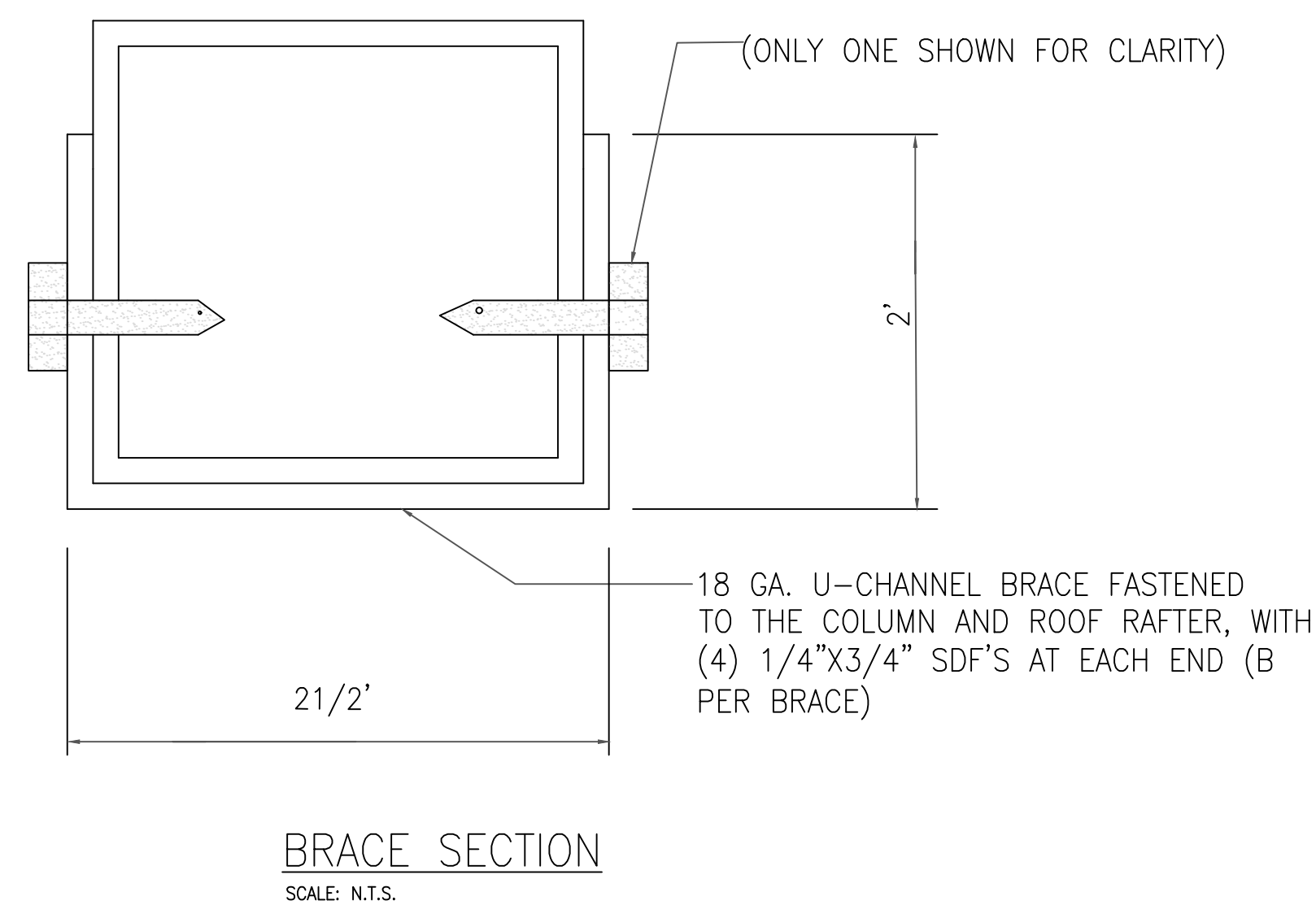
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No.	Date	Description
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BOX EAVE FRAME RAFTER STRUCTURE

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1A BOX EAVE RAFTER/CORNER POST
CONNECTION DETAIL
FOR HEIGHTS 16'-0" < TO ≤ 20'-0"
SCALE: NTS



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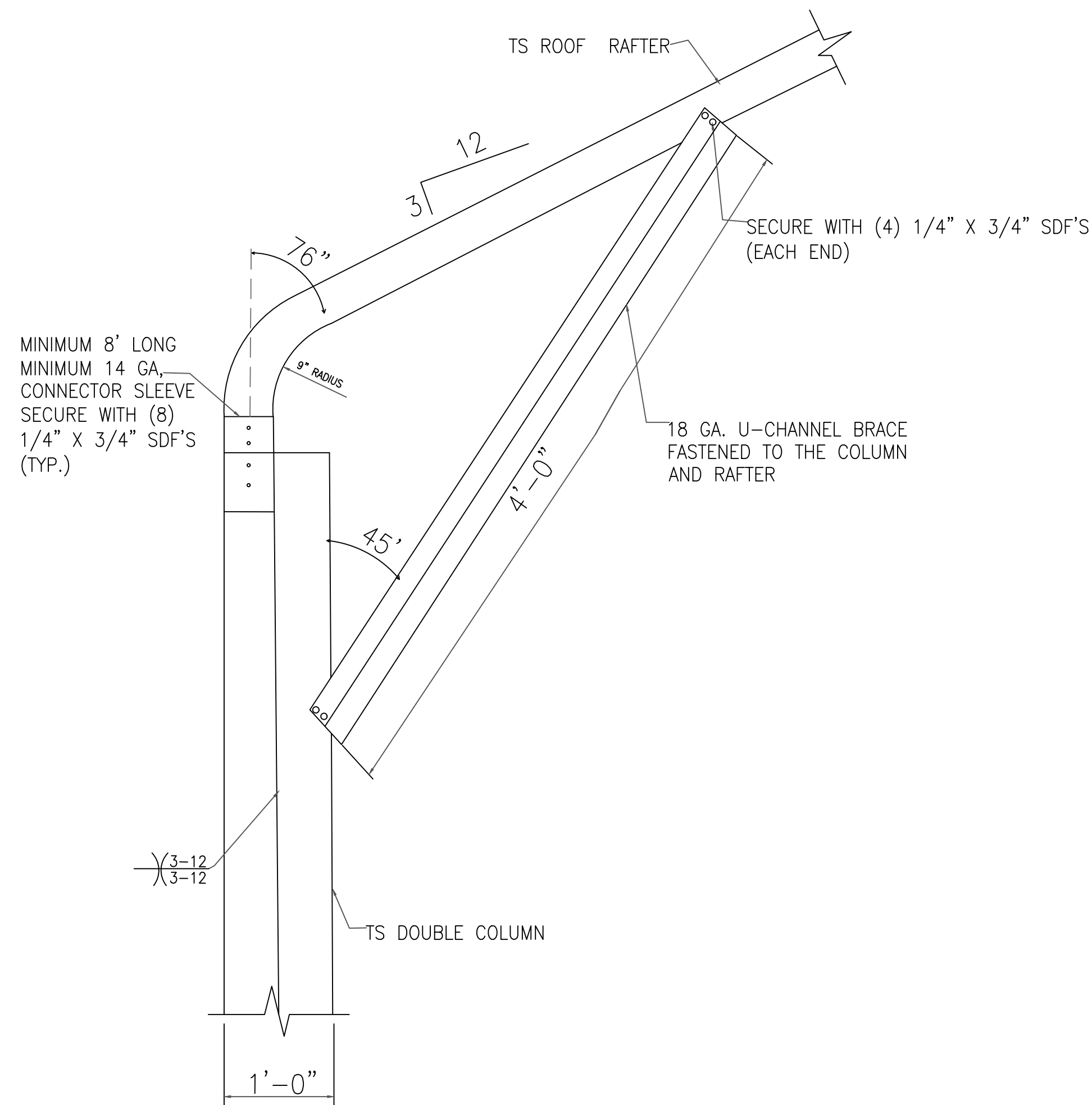
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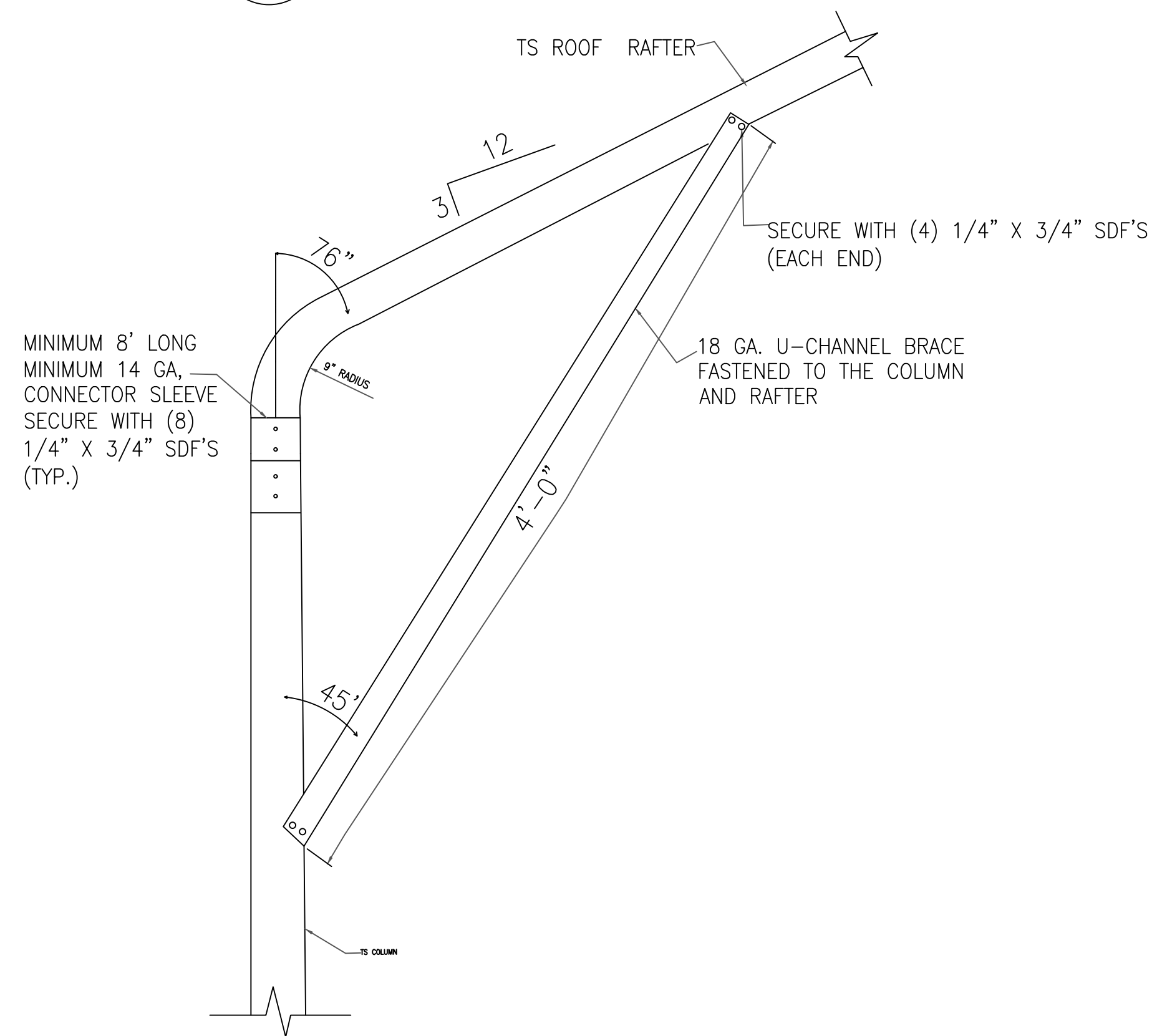
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BOX EAVE FRAME RAFTER STRUCTURE

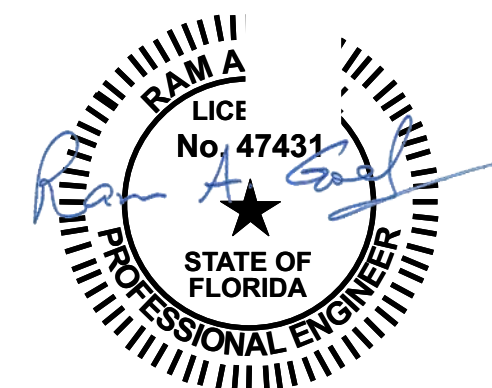
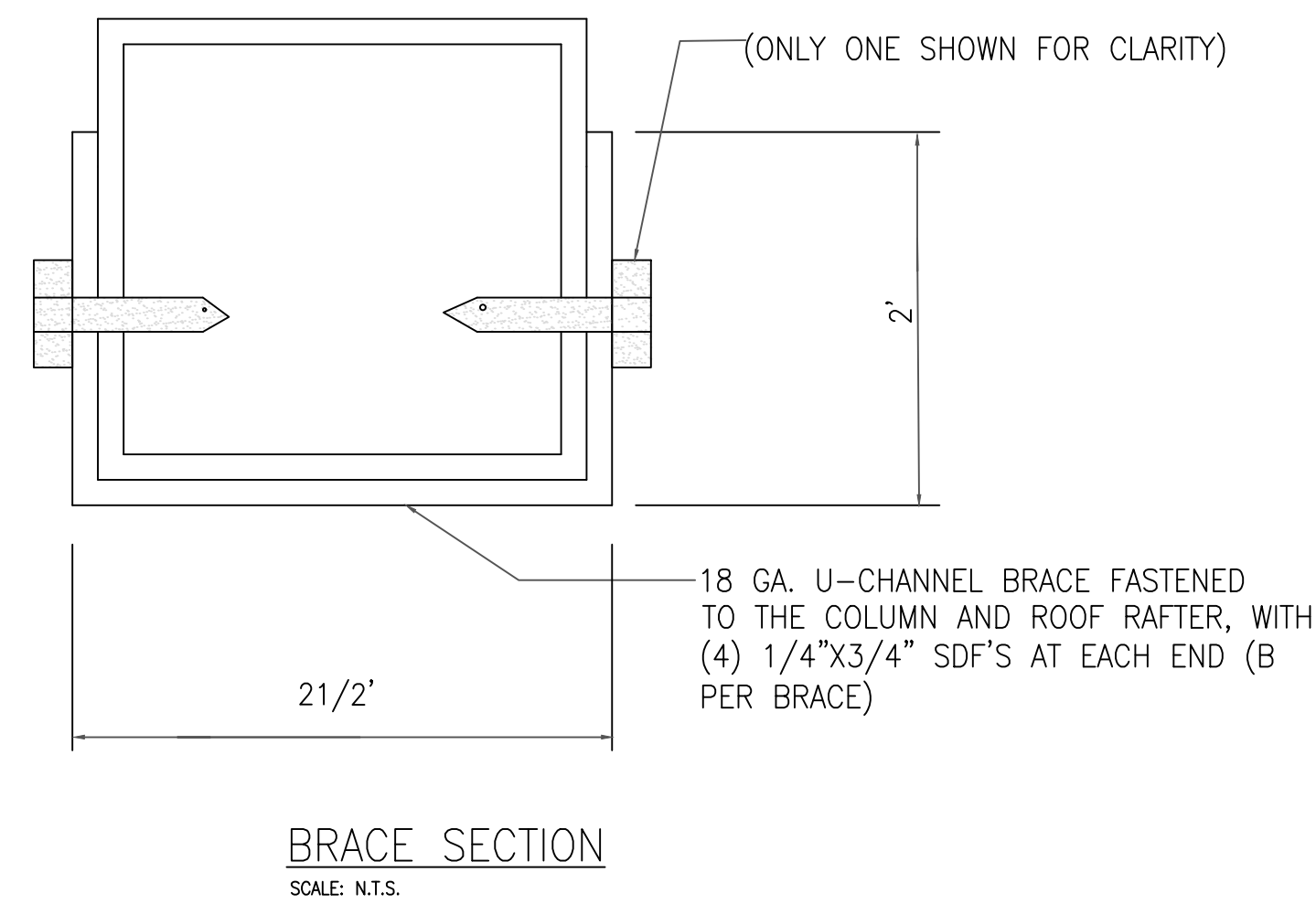
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1B BOX EAVE RAFTER/CORNER POST
CONNECTION DETAIL
FOR HEIGHTS 12'-0" < TO ≤ 16'-0"
SCALE: N.T.S.



1C BOX EAVE RAFTER/CORNER POST
CONNECTION DETAIL
FOR HEIGHTS ≤ 12'-0"
SCALE: N.T.S.



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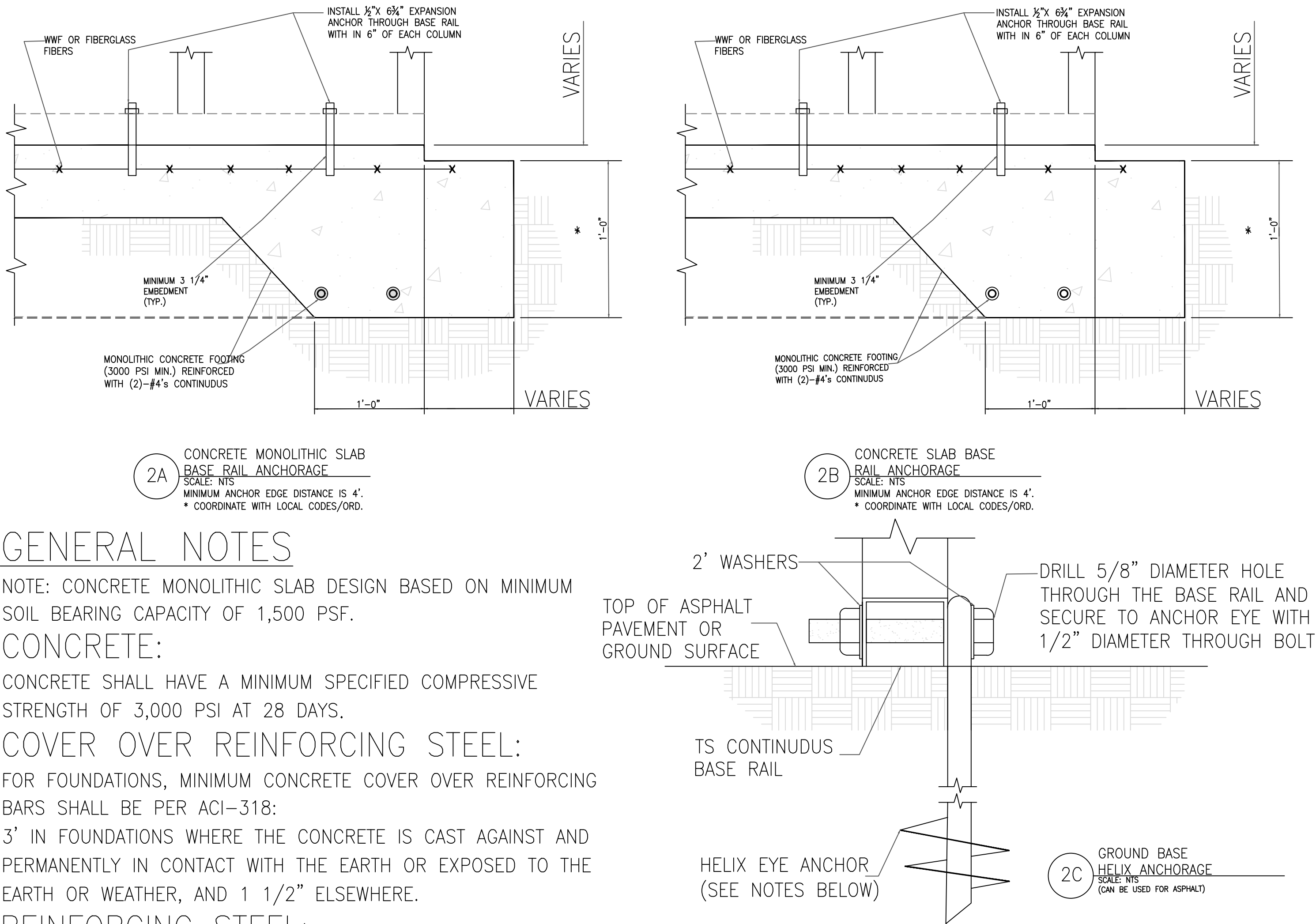
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BOX EAVE FRAME RAFTER STRUCTURE

ELITE METAL MANUFACTURING, LLC
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BASE RAIL ANCHORAGE OPTIONS



GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF.

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:

3' IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2" ELSEWHERE.

REINFORCING STEEL:

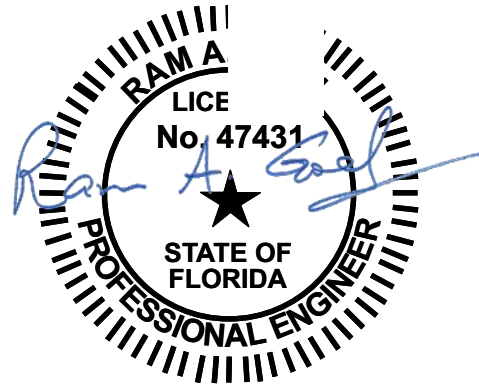
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

HELIX ANCHOR NOTES:

1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS, AND CLAYS, USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
2. FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4' HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
4. FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM 50' EMBEDMENT.
5. FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8' HELICES WITH MINIMUM 60' EMBEDMENT.



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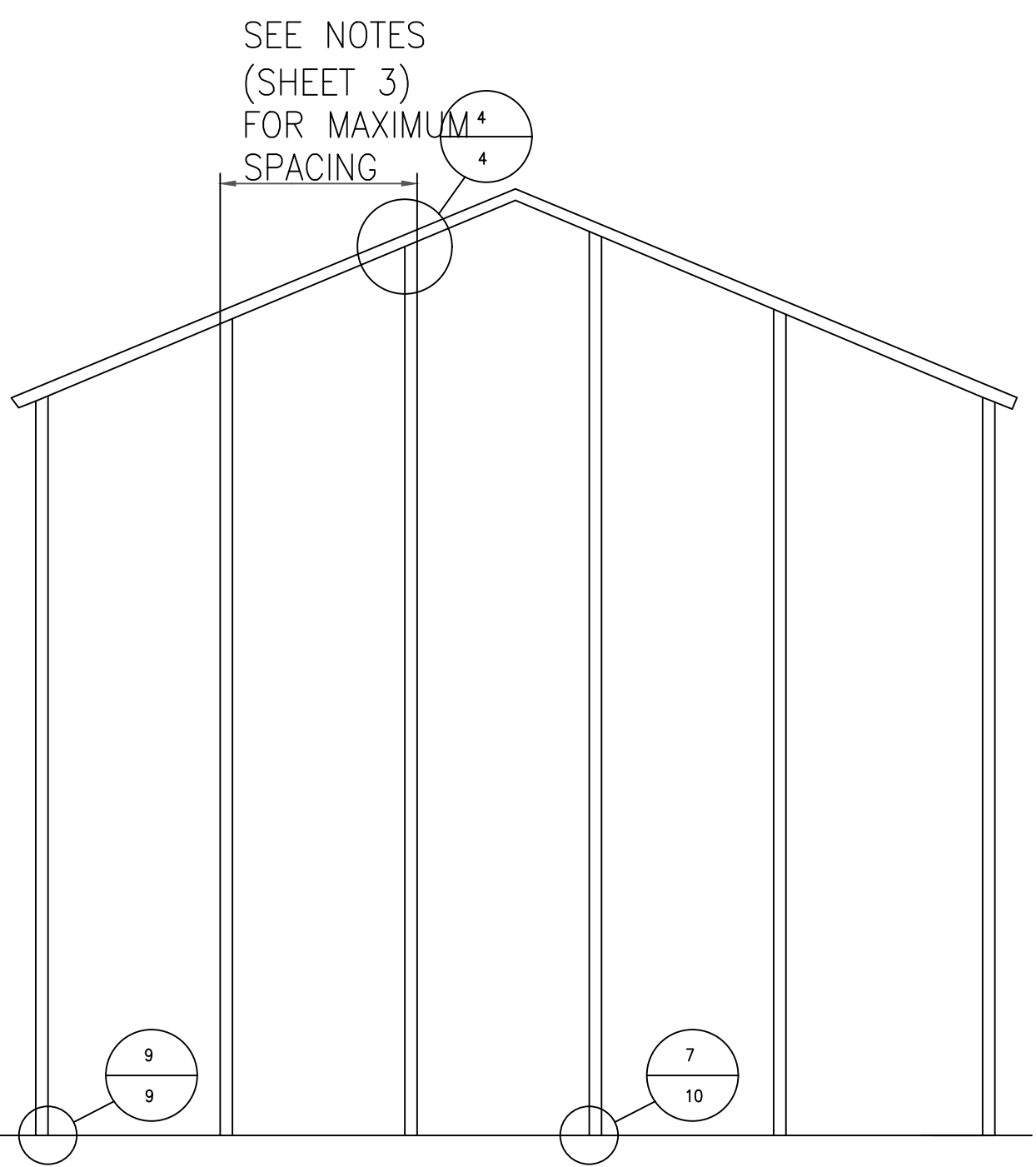
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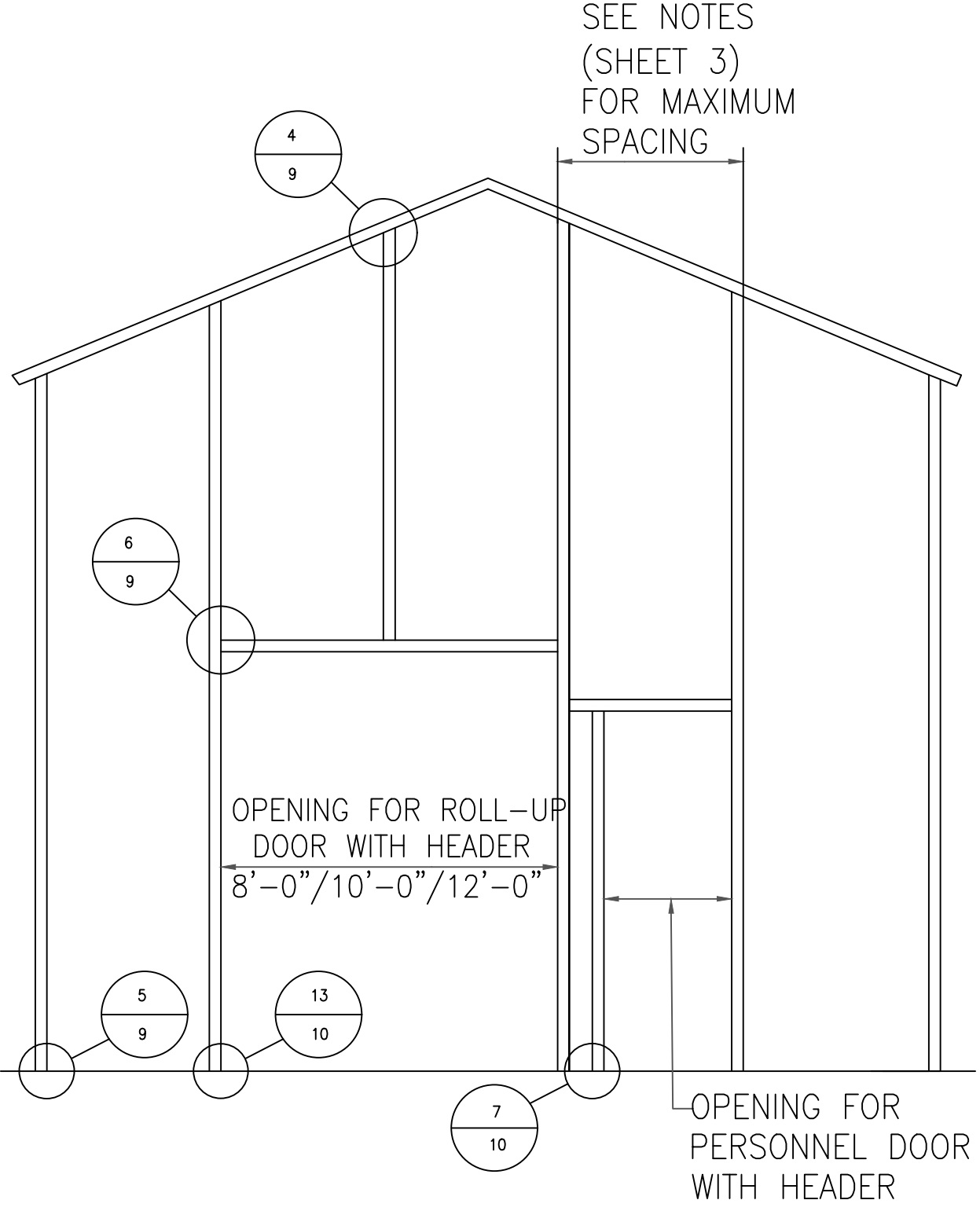
BASE RAIL ANCHORAGE OPTIONS

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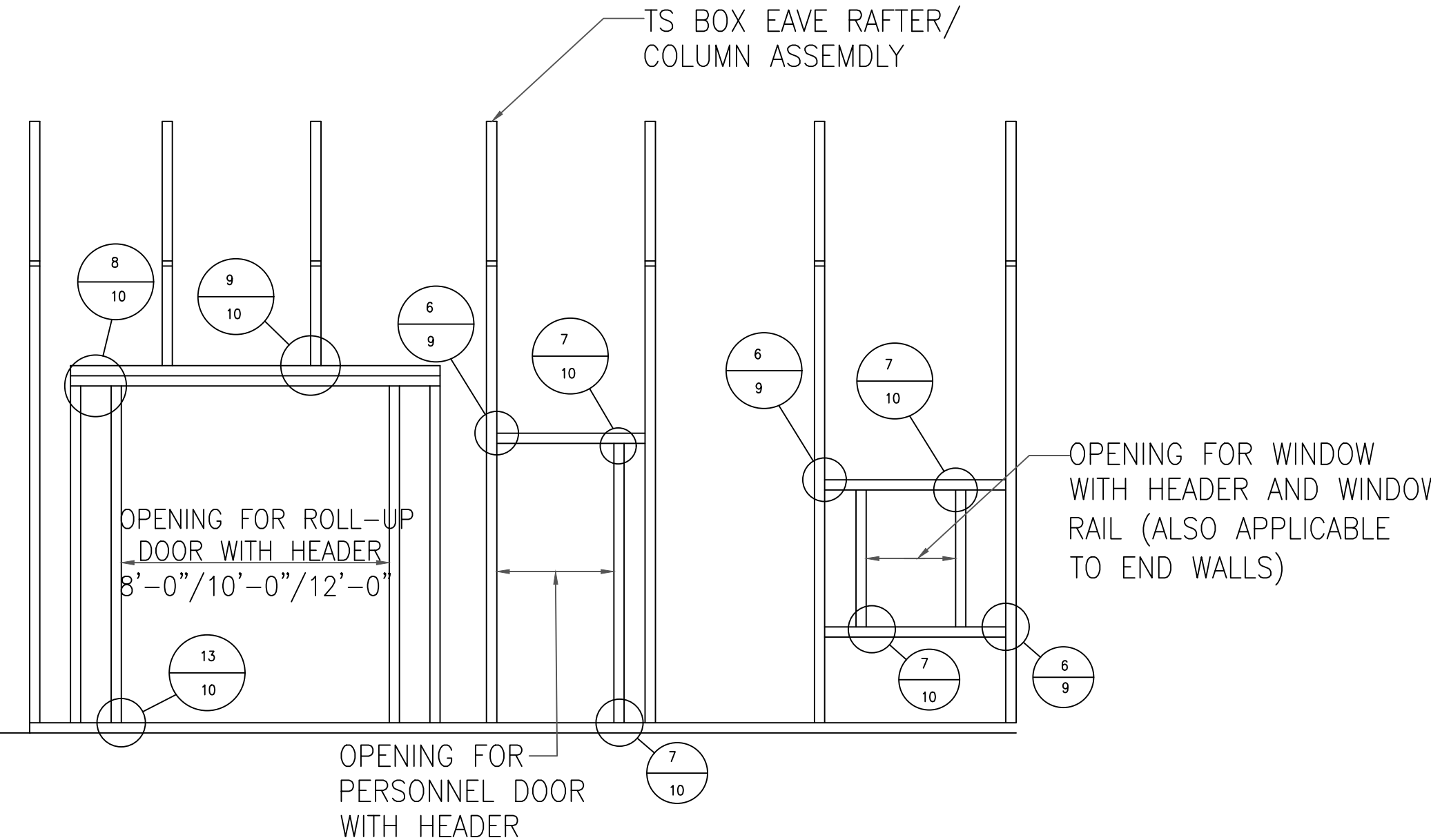
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION
SCALE: N.T.S.



TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION
SCALE: N.T.S.



TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION
SCALE: N.T.S.

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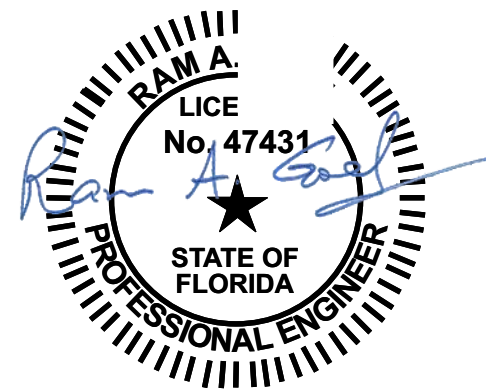
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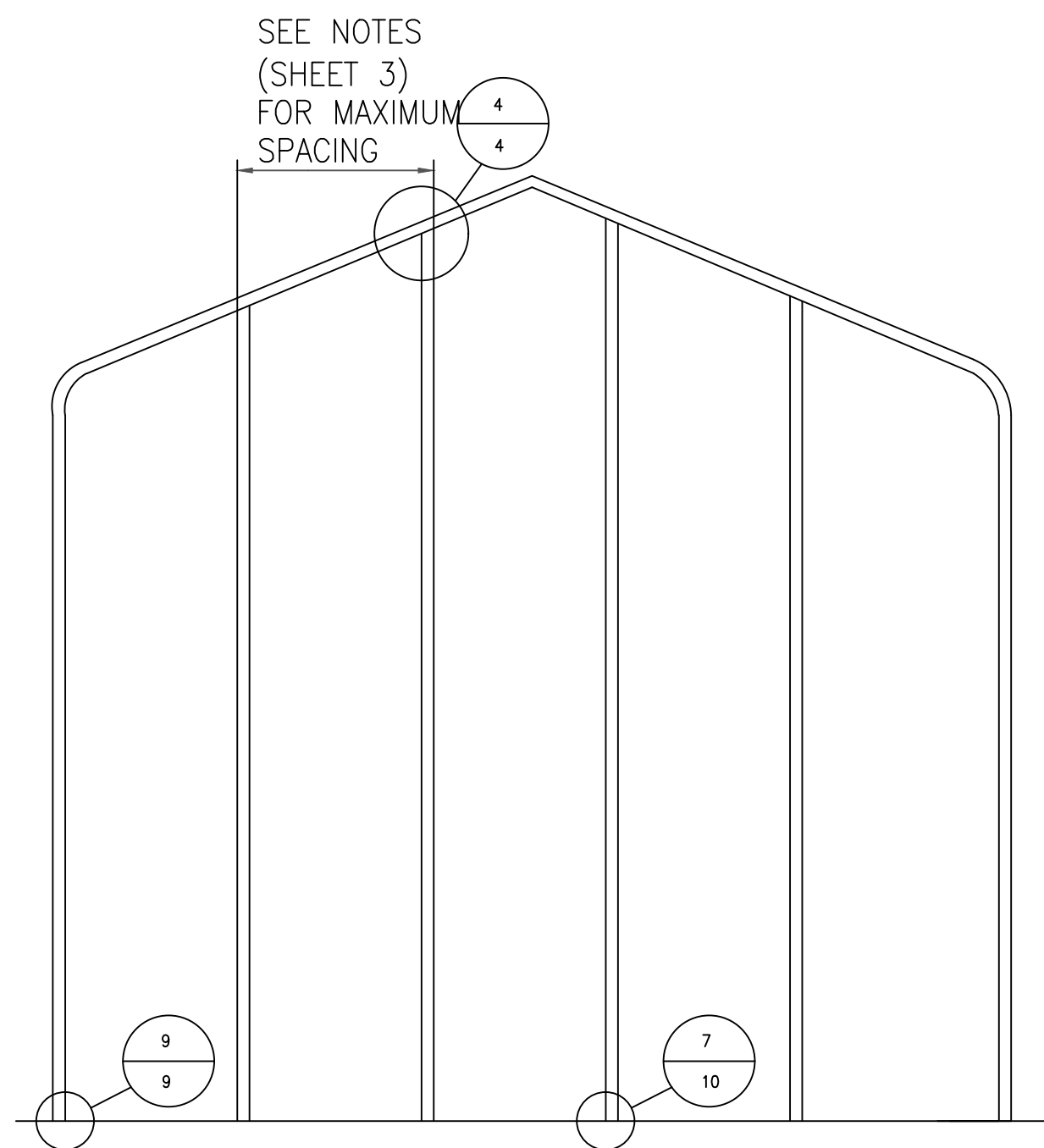
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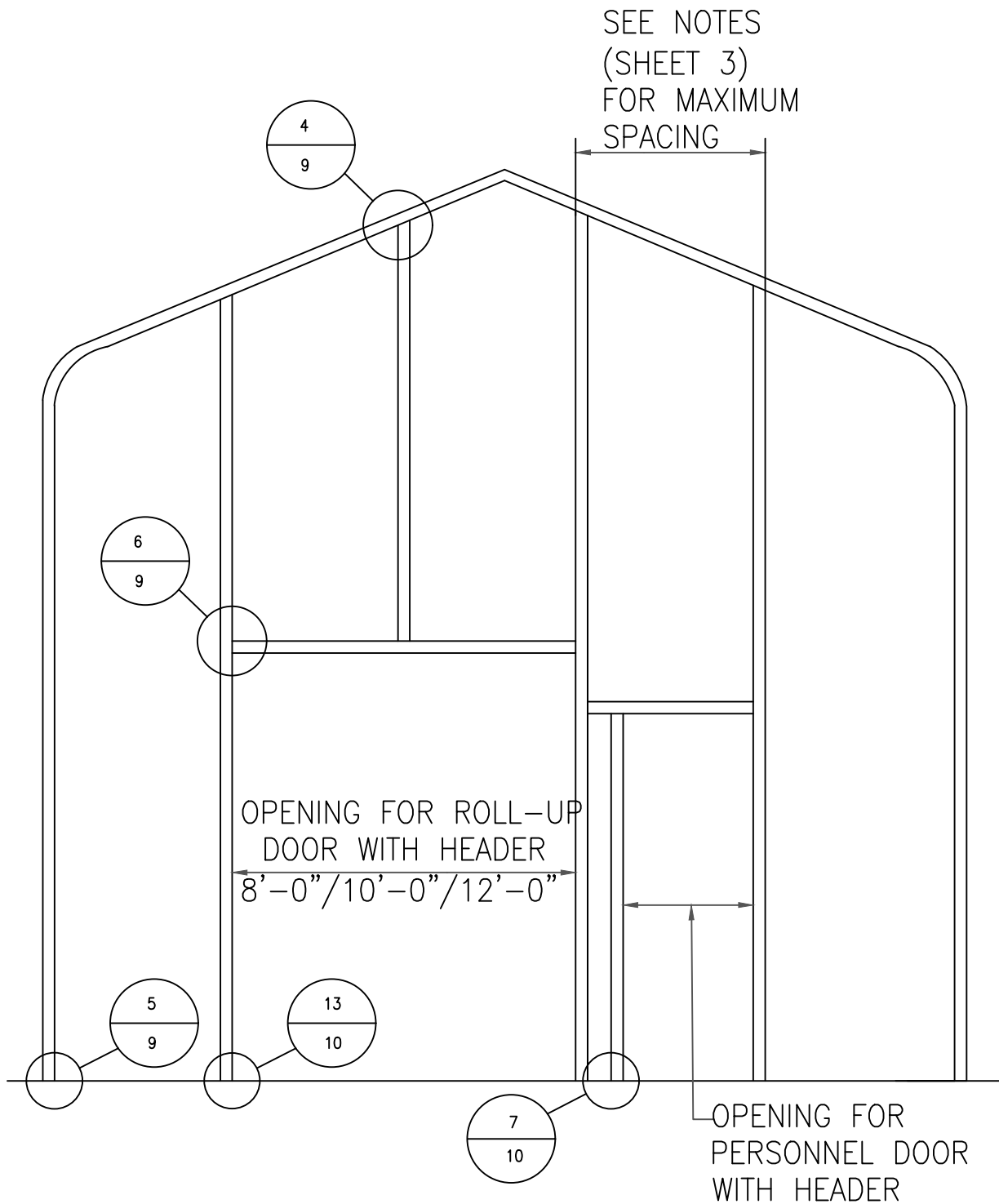
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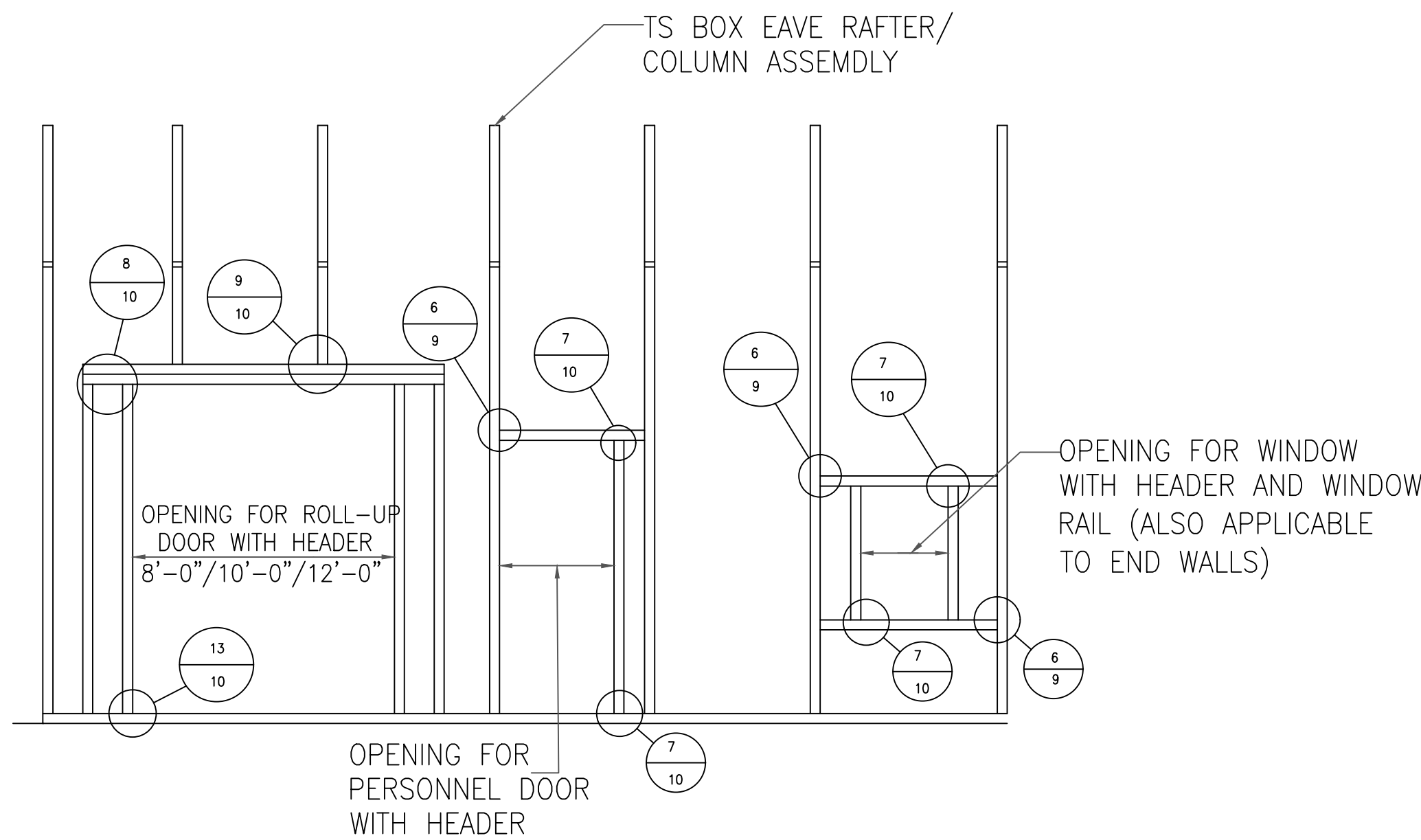
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



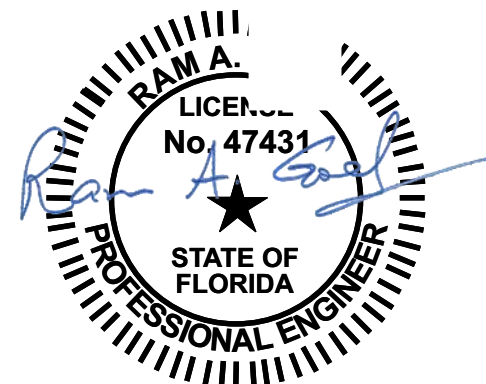
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END WALL FRAMING SECTION
SCALE: N.T.S.



TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION
SCALE: N.T.S.



TYPICAL BOX EAVE RAFTER
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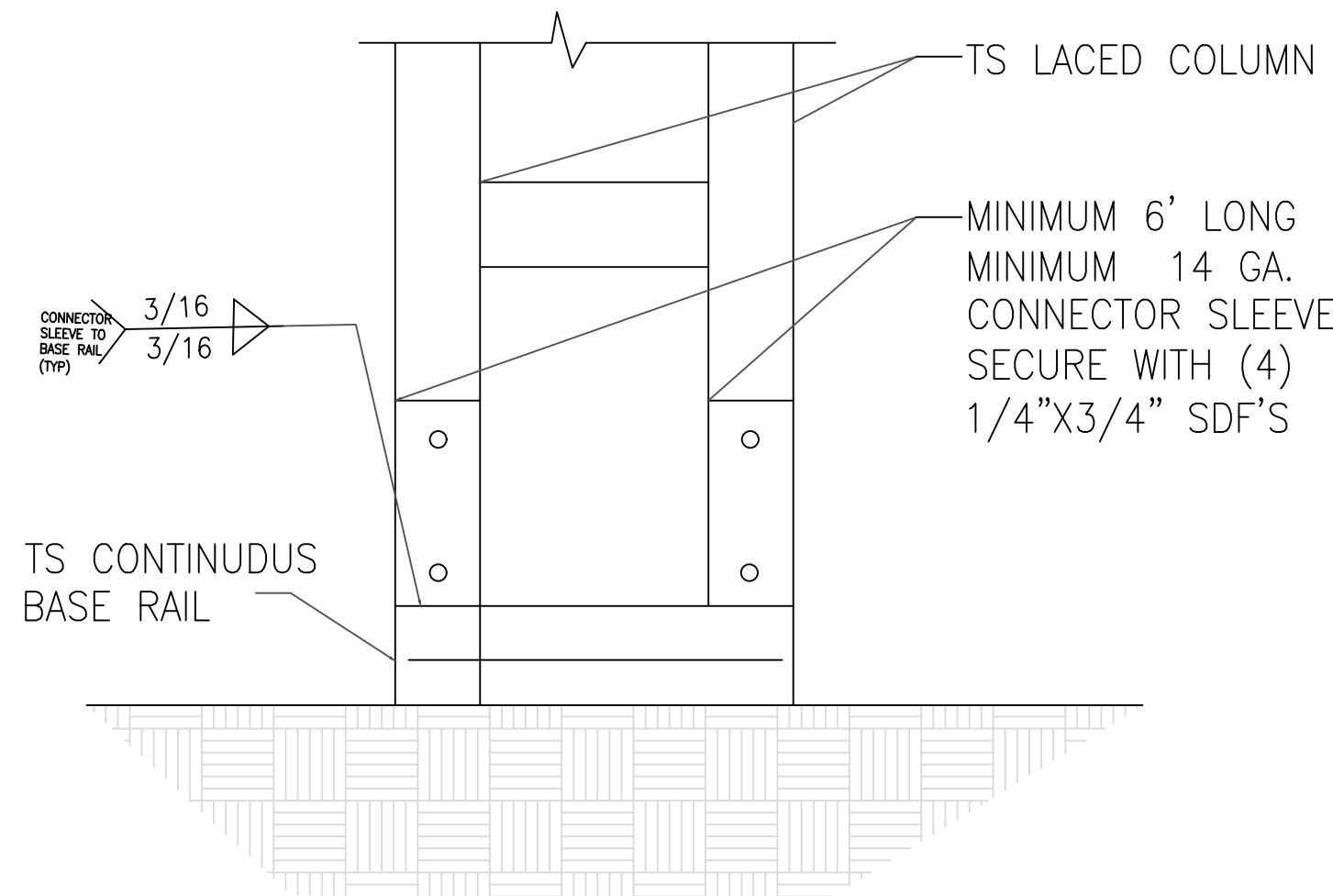
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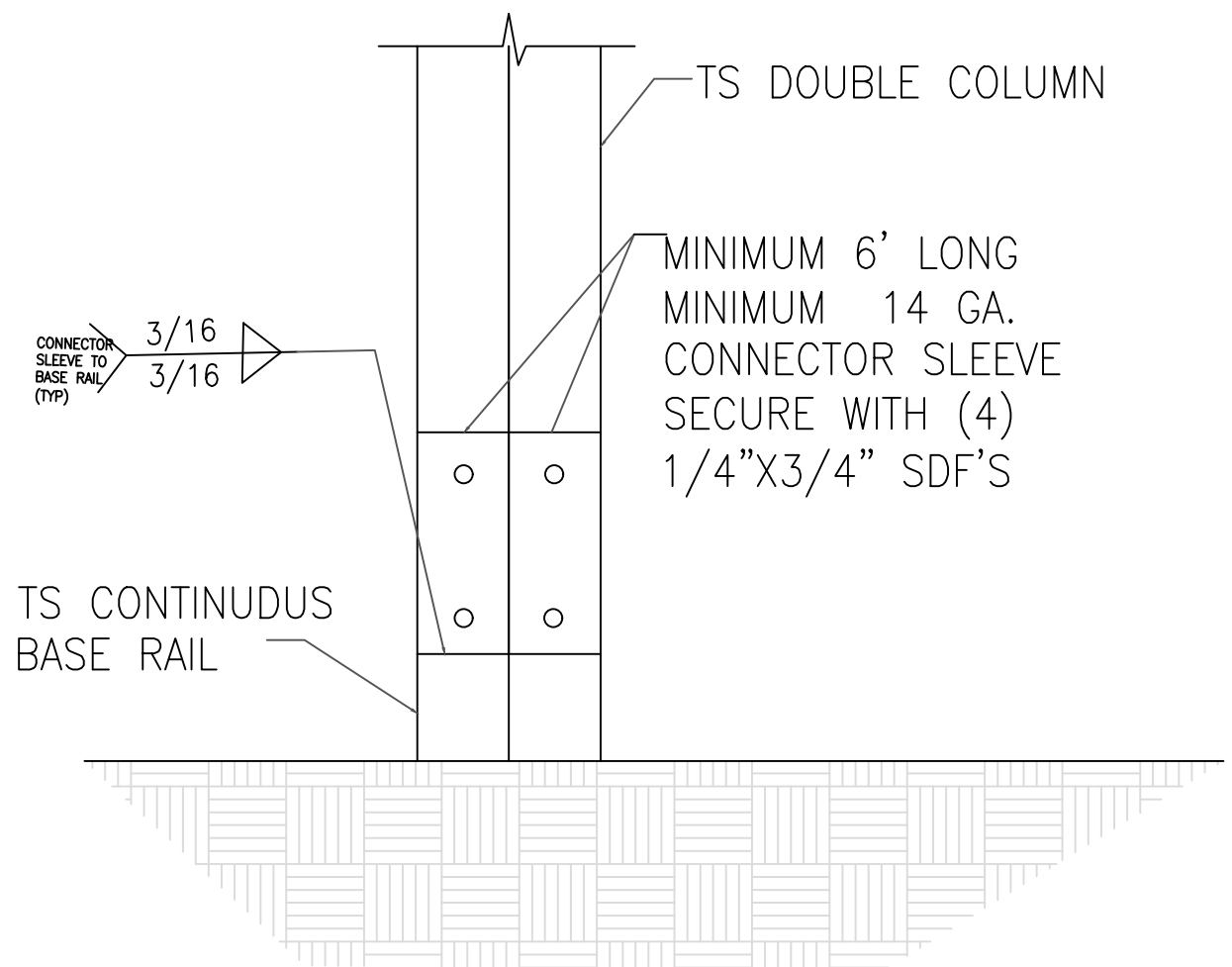
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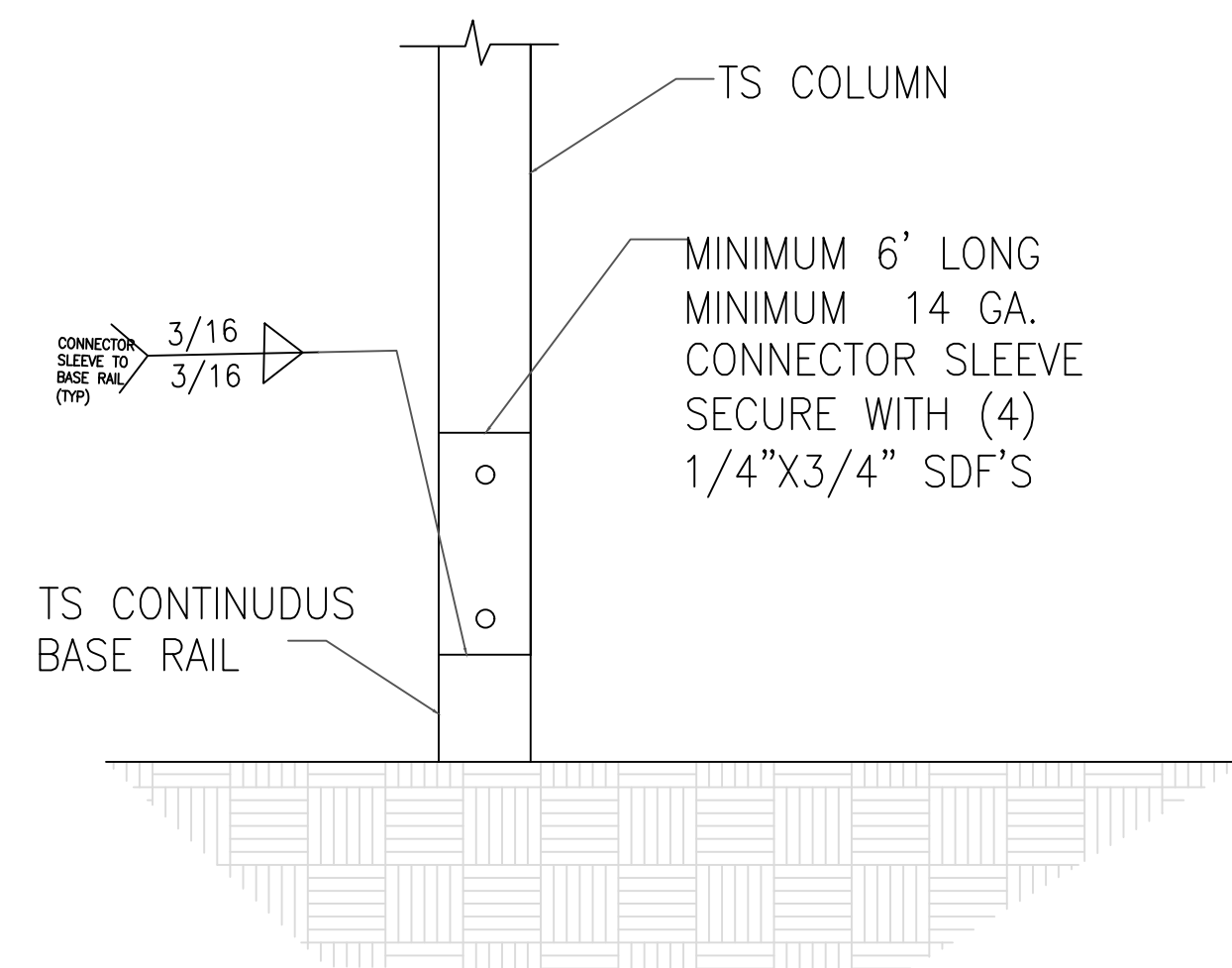
CONNECTION DETAILS



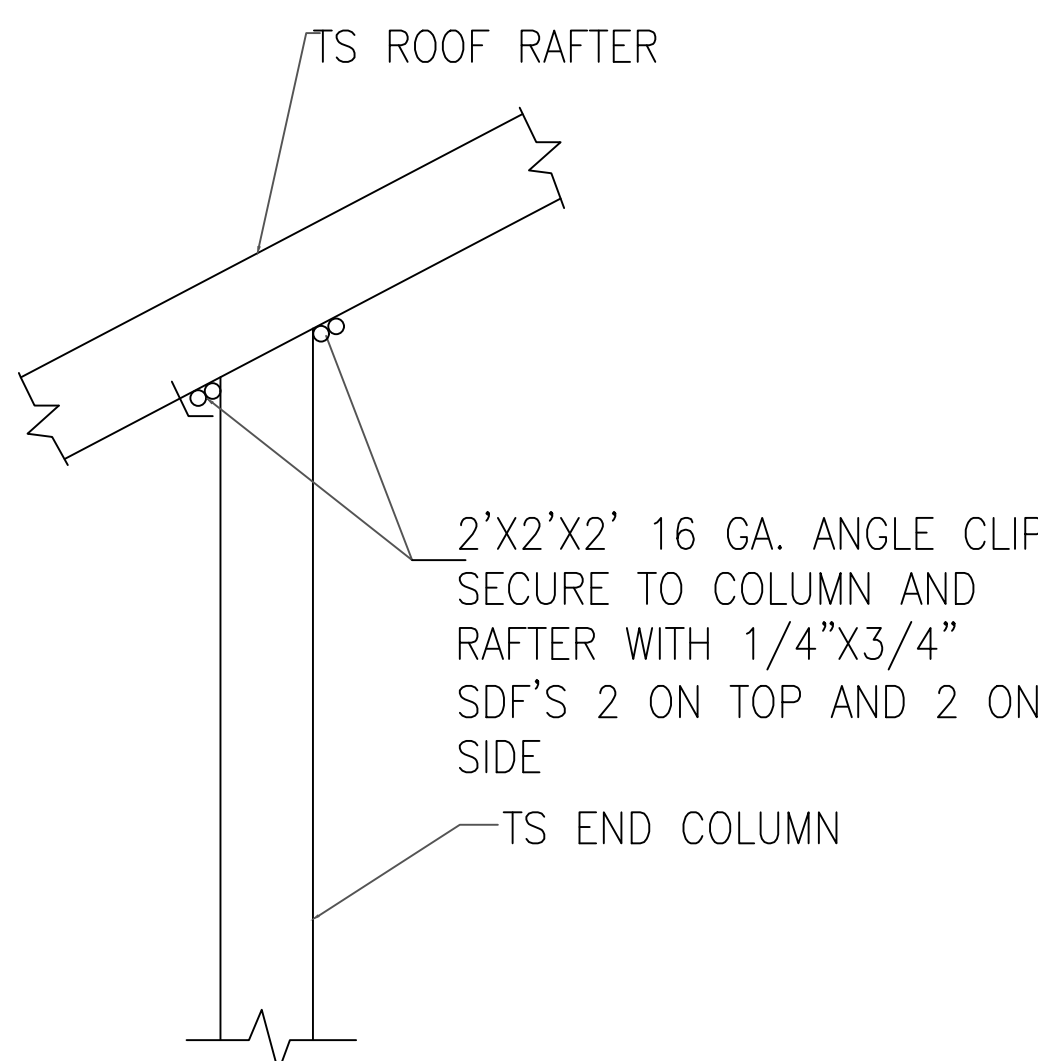
3A POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



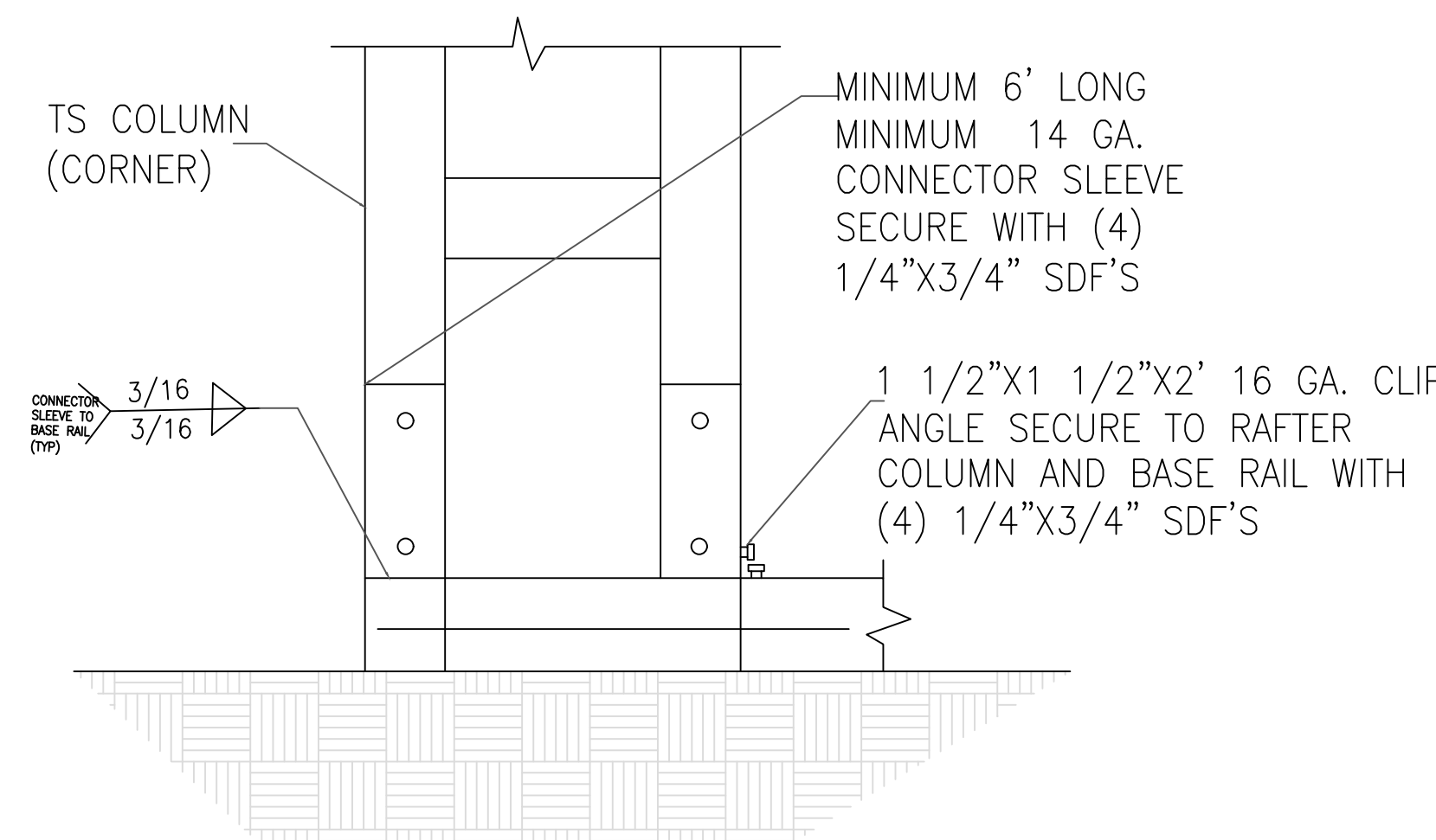
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SCALE: NTS



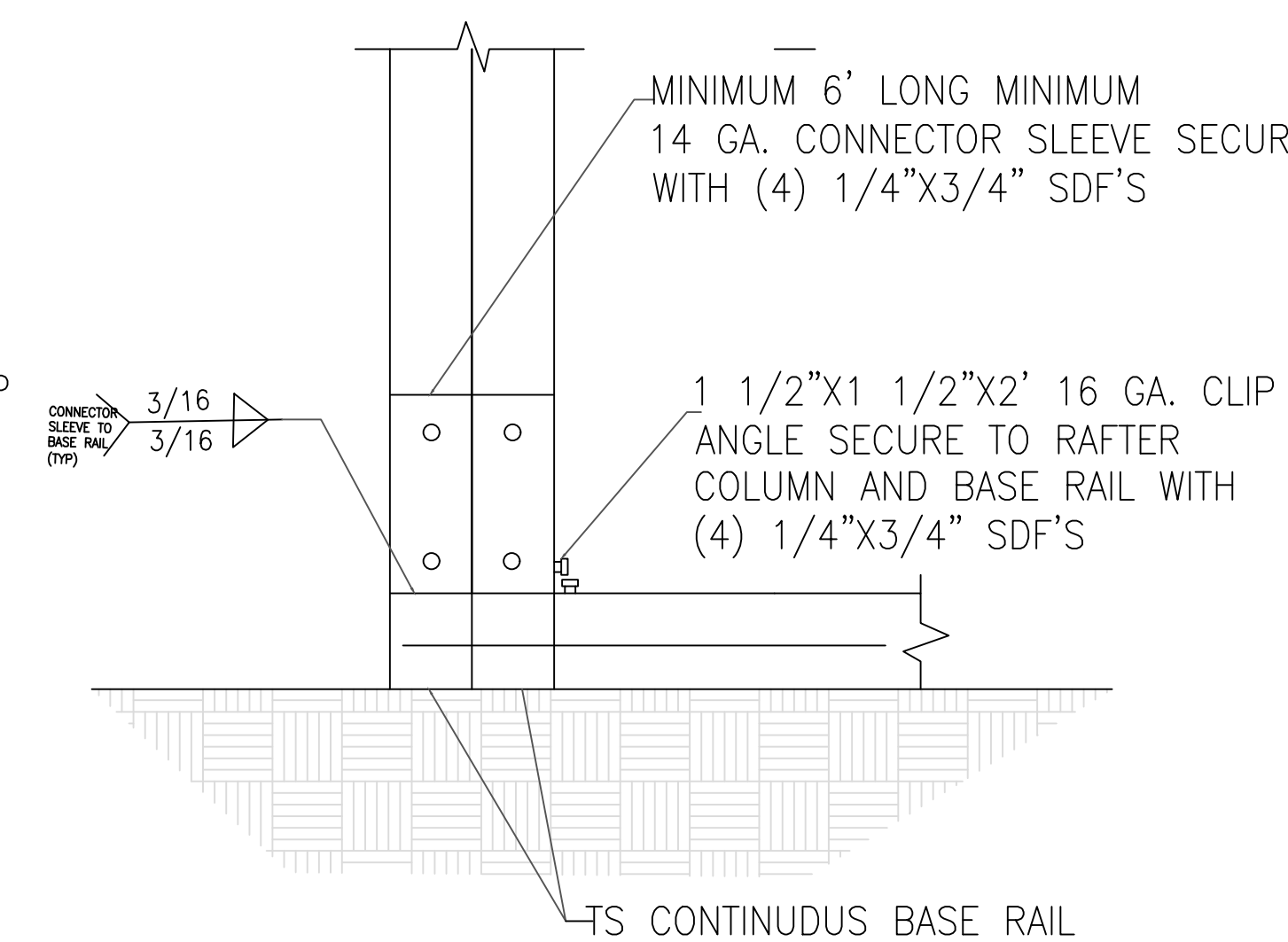
3C POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



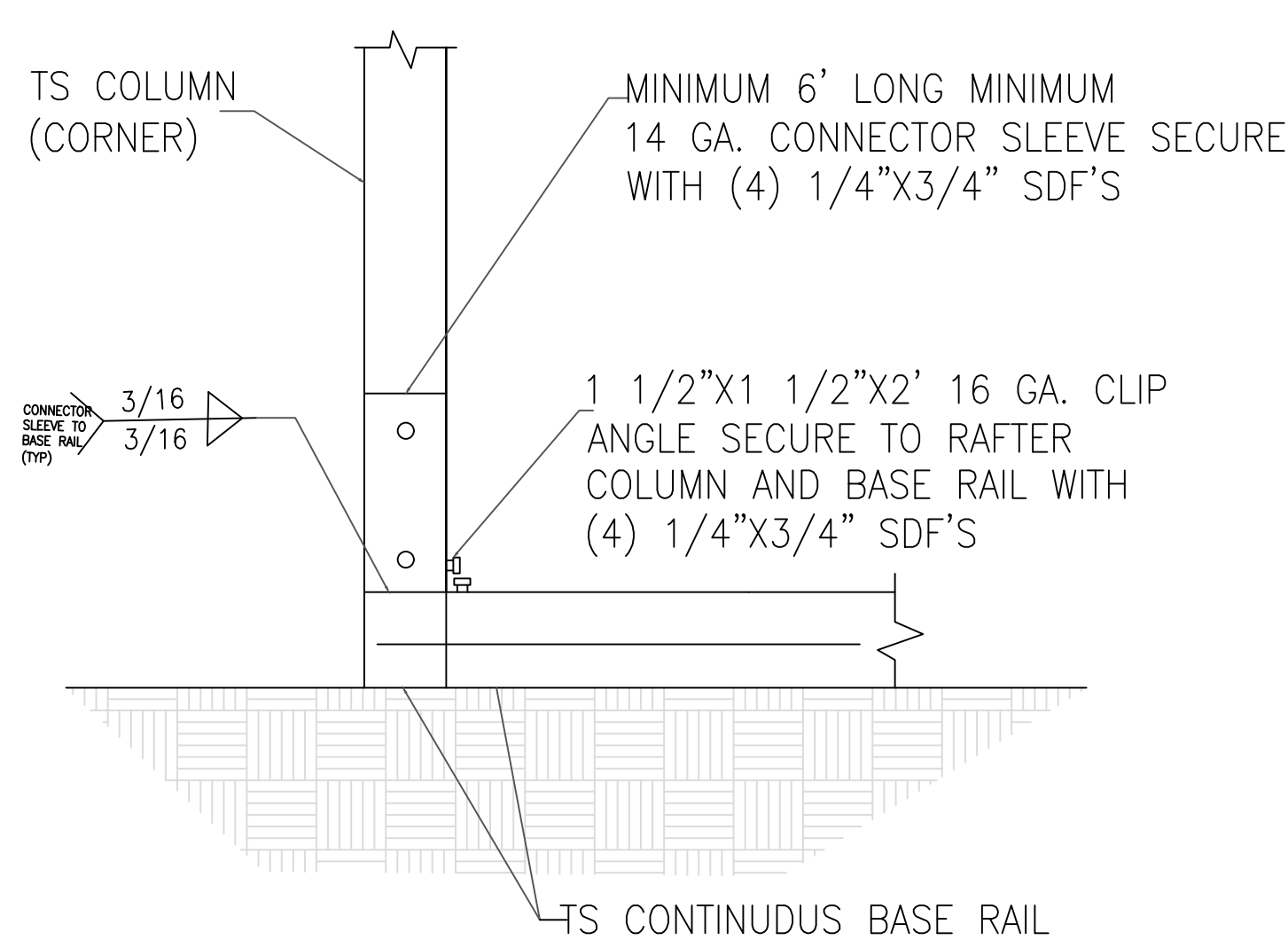
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



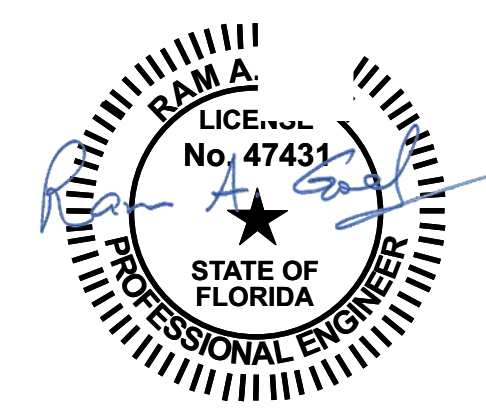
5A END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



5B END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



5B END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



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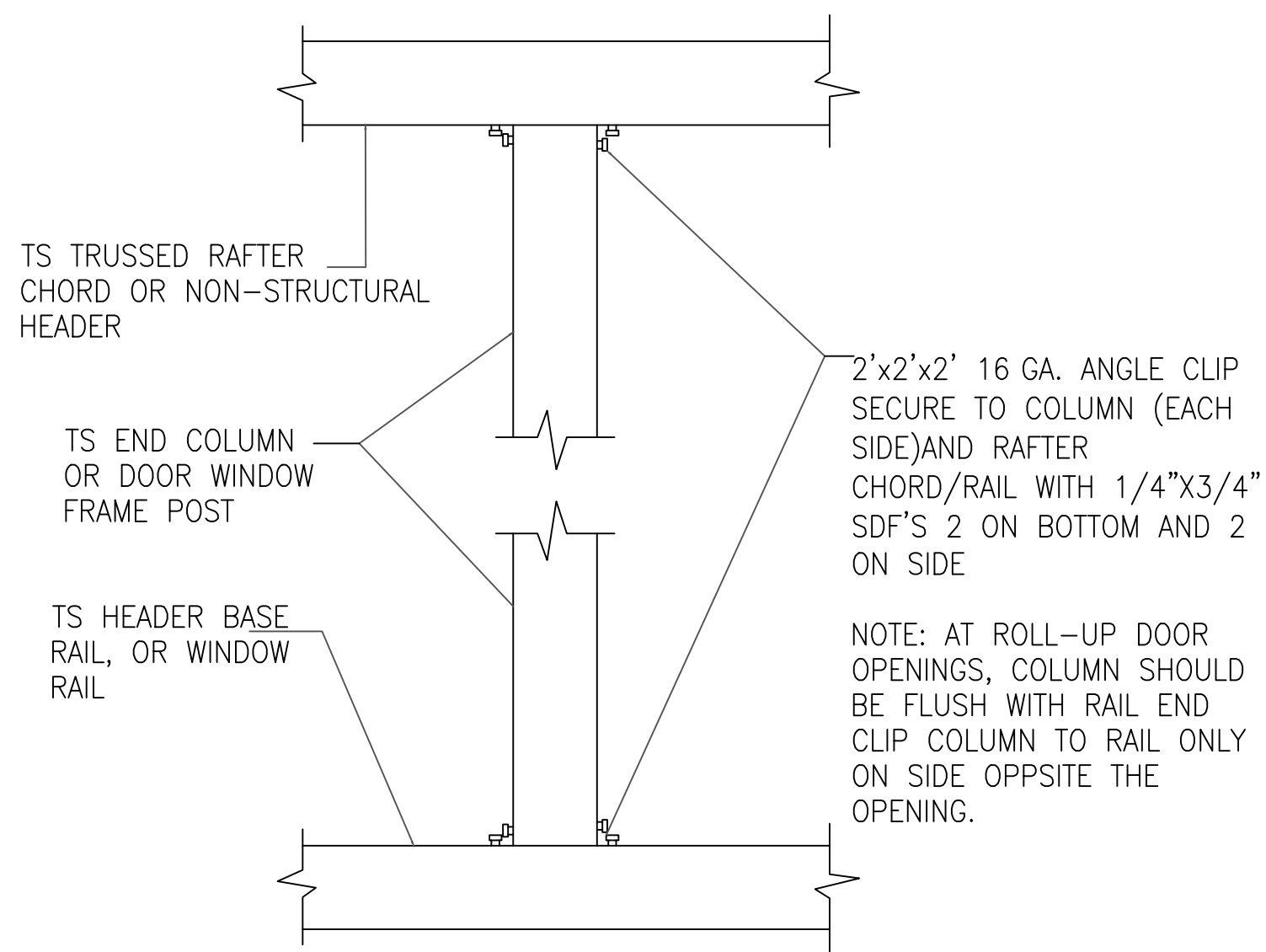
Job # S2080
Drawn By: K.D.
Checked By: S.G.

Issue Date: 08-18-21		
Revisions:		
No.	Date	Description
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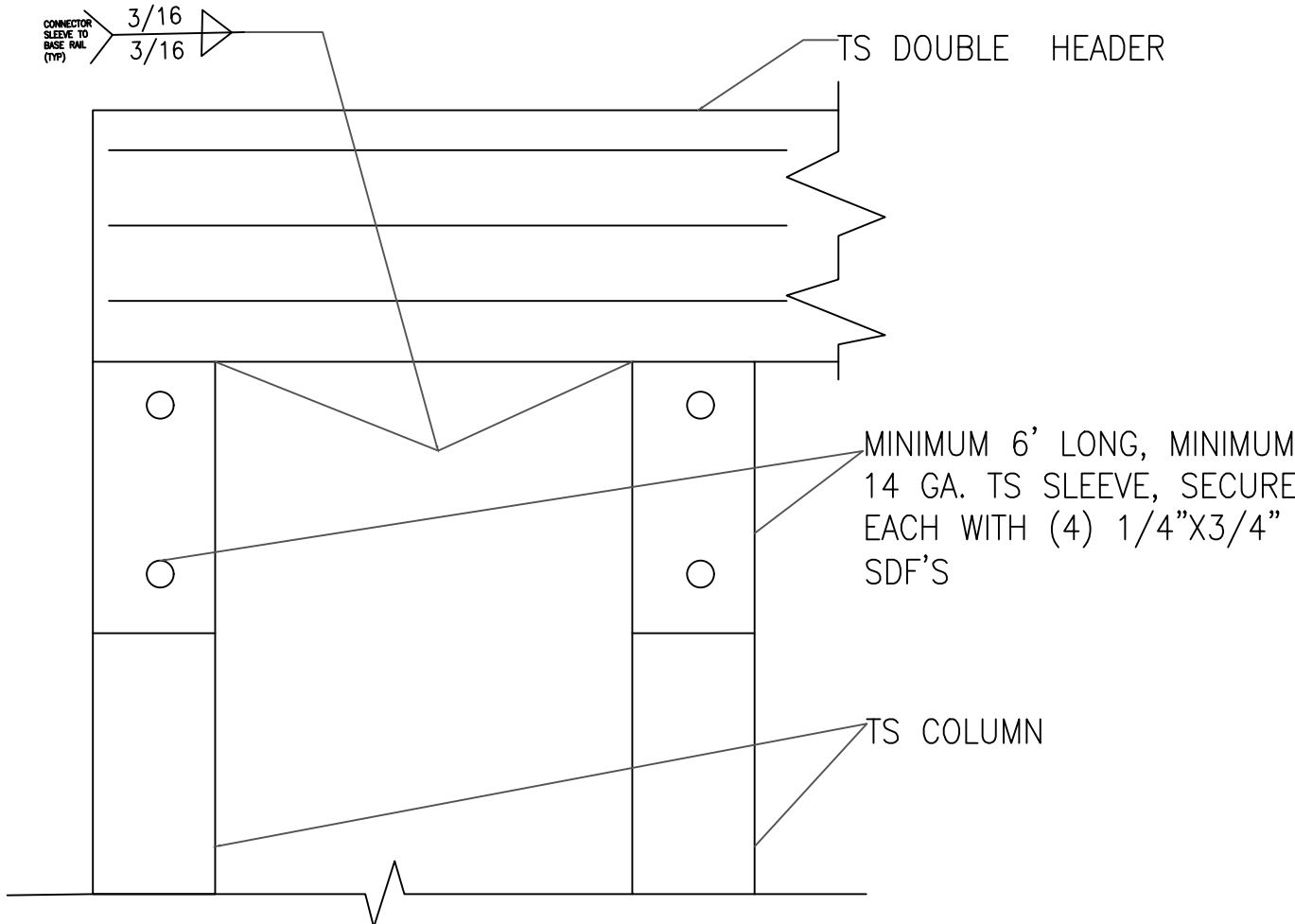
CONNECTION DETAILS

ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060

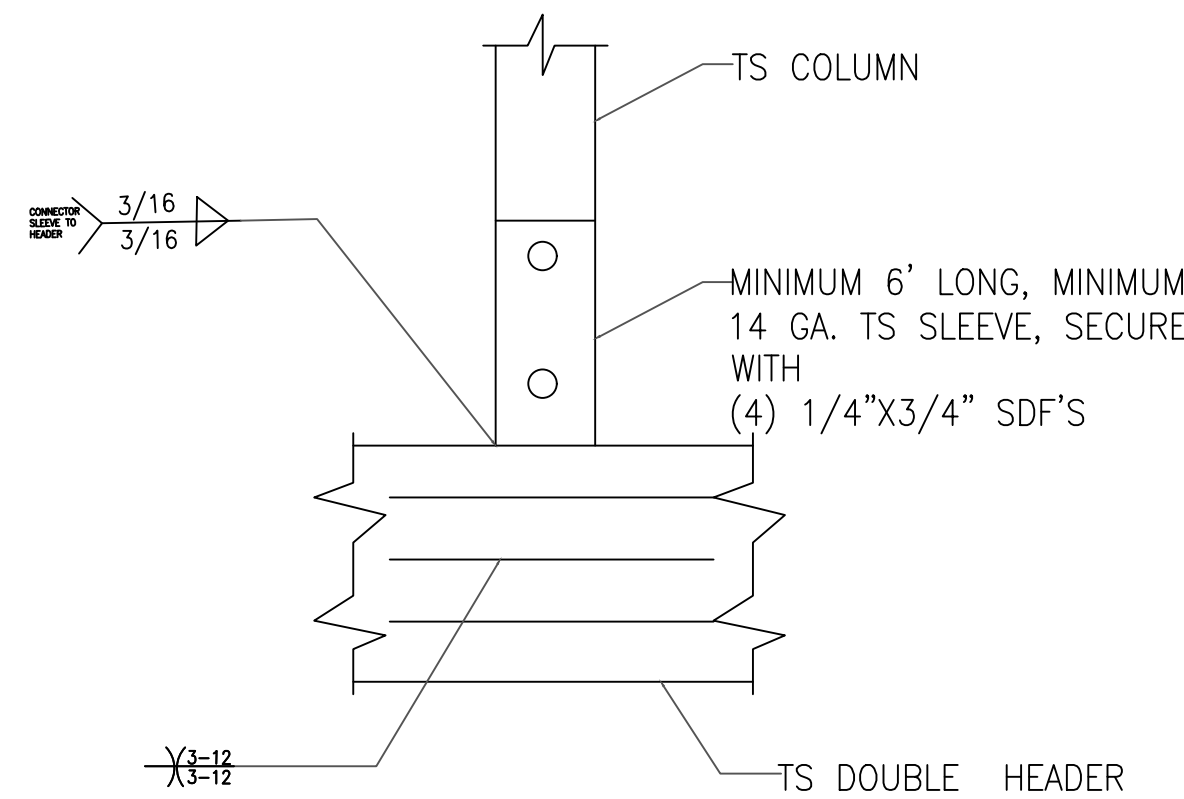
CONNECTION DETAILS



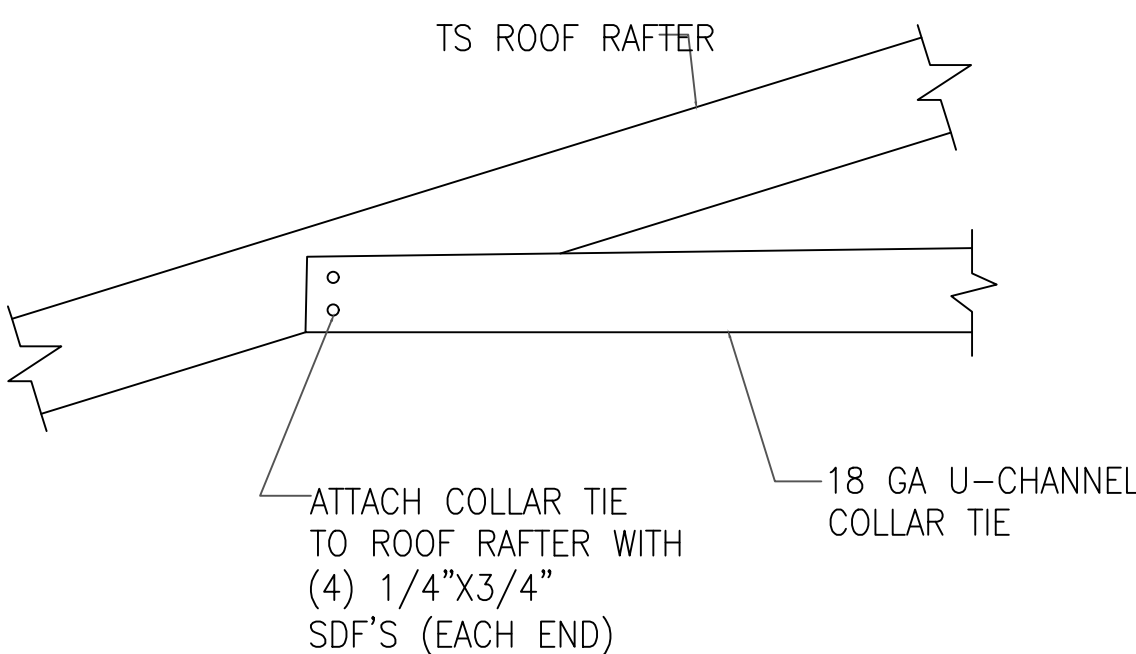
7 COLUMN TO HEADER, BASE RAIL OR WINDOW RAIL CONNECTION DETAIL
SCALE: NTS



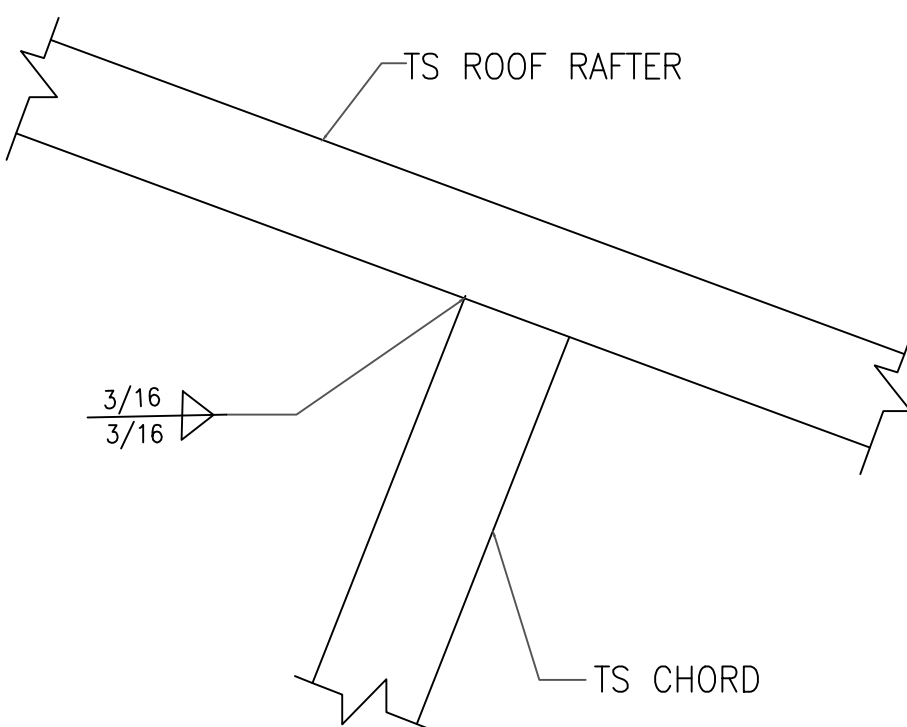
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



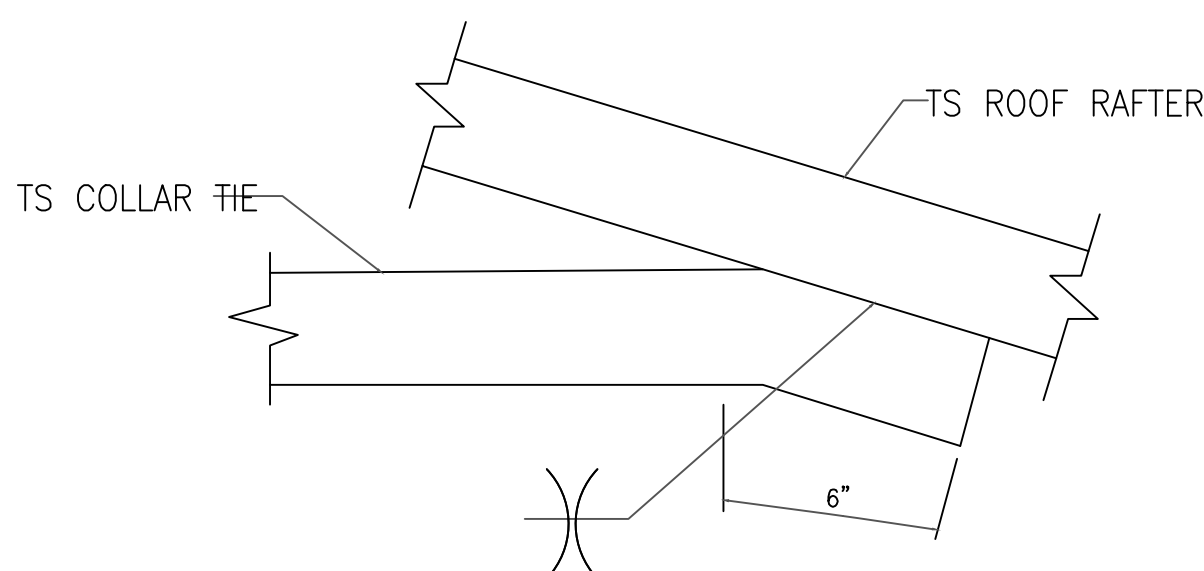
9 COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



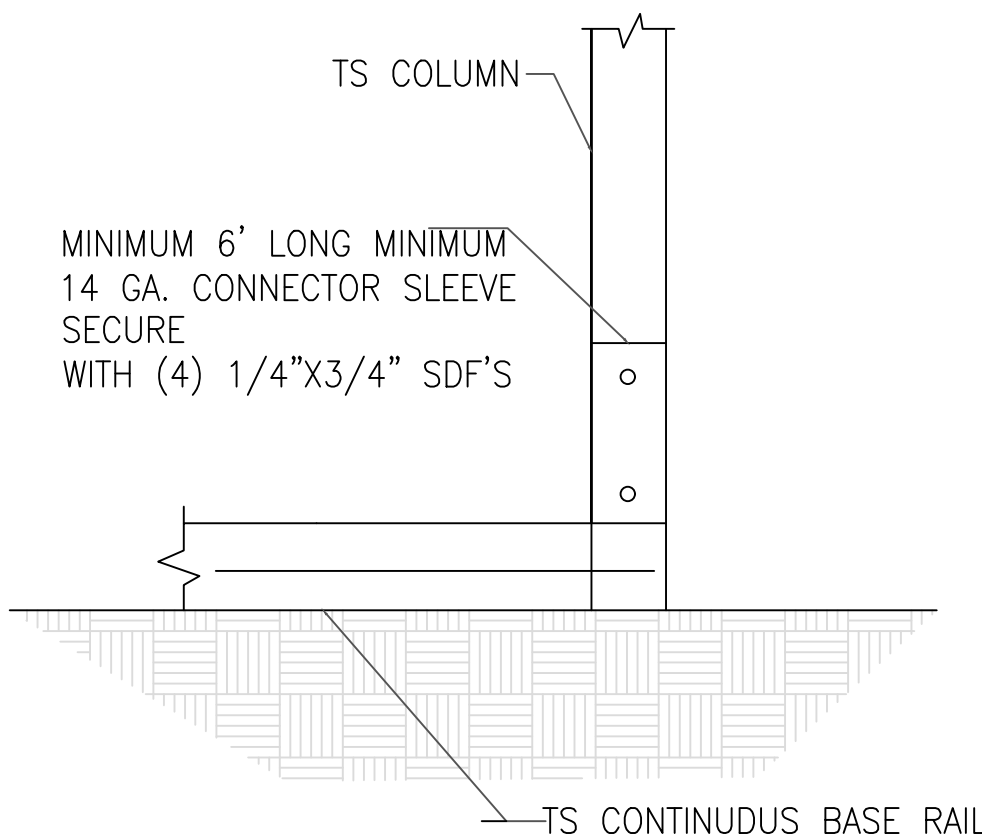
10 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



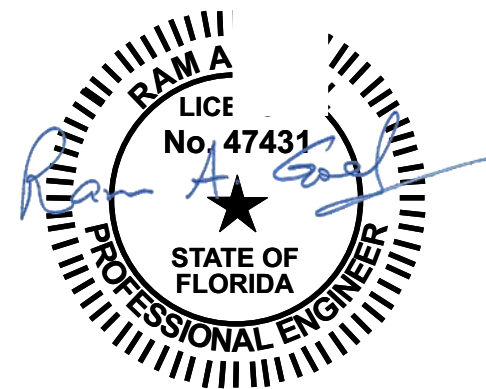
11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



13 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



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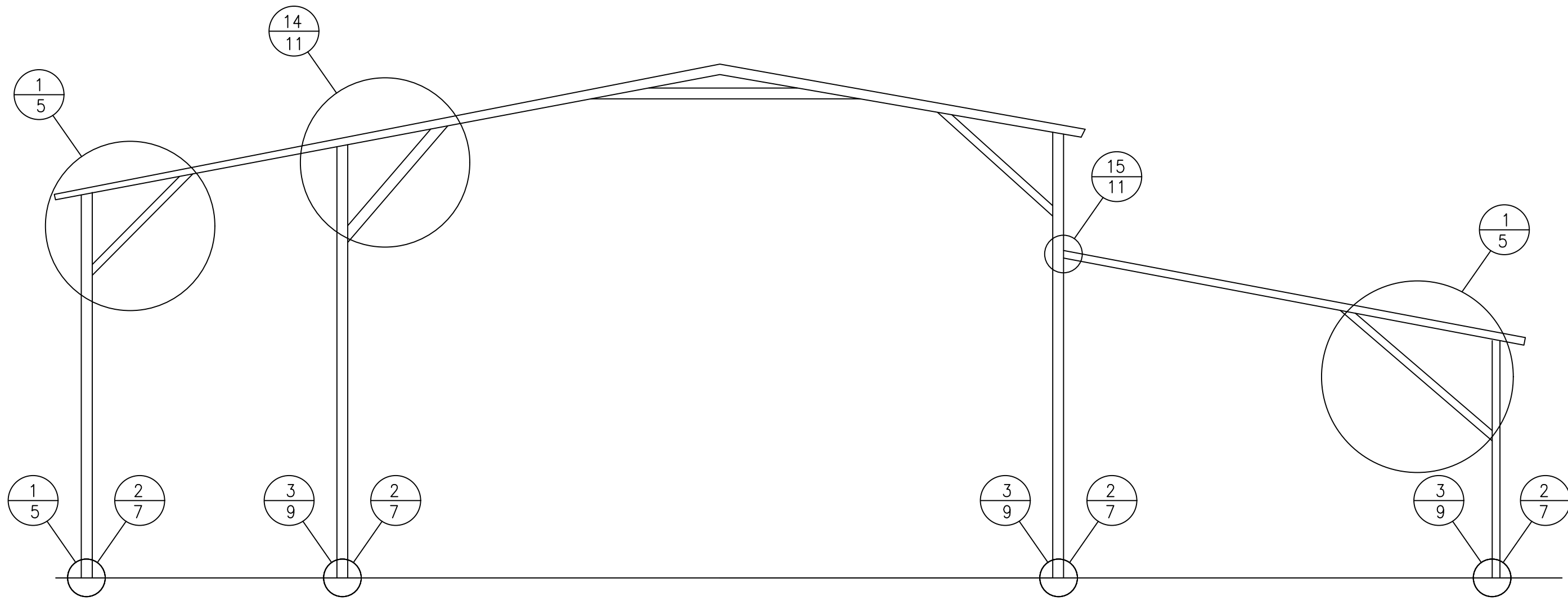
Job # S2080
Drawn By: K.D.
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No.	Date	Description
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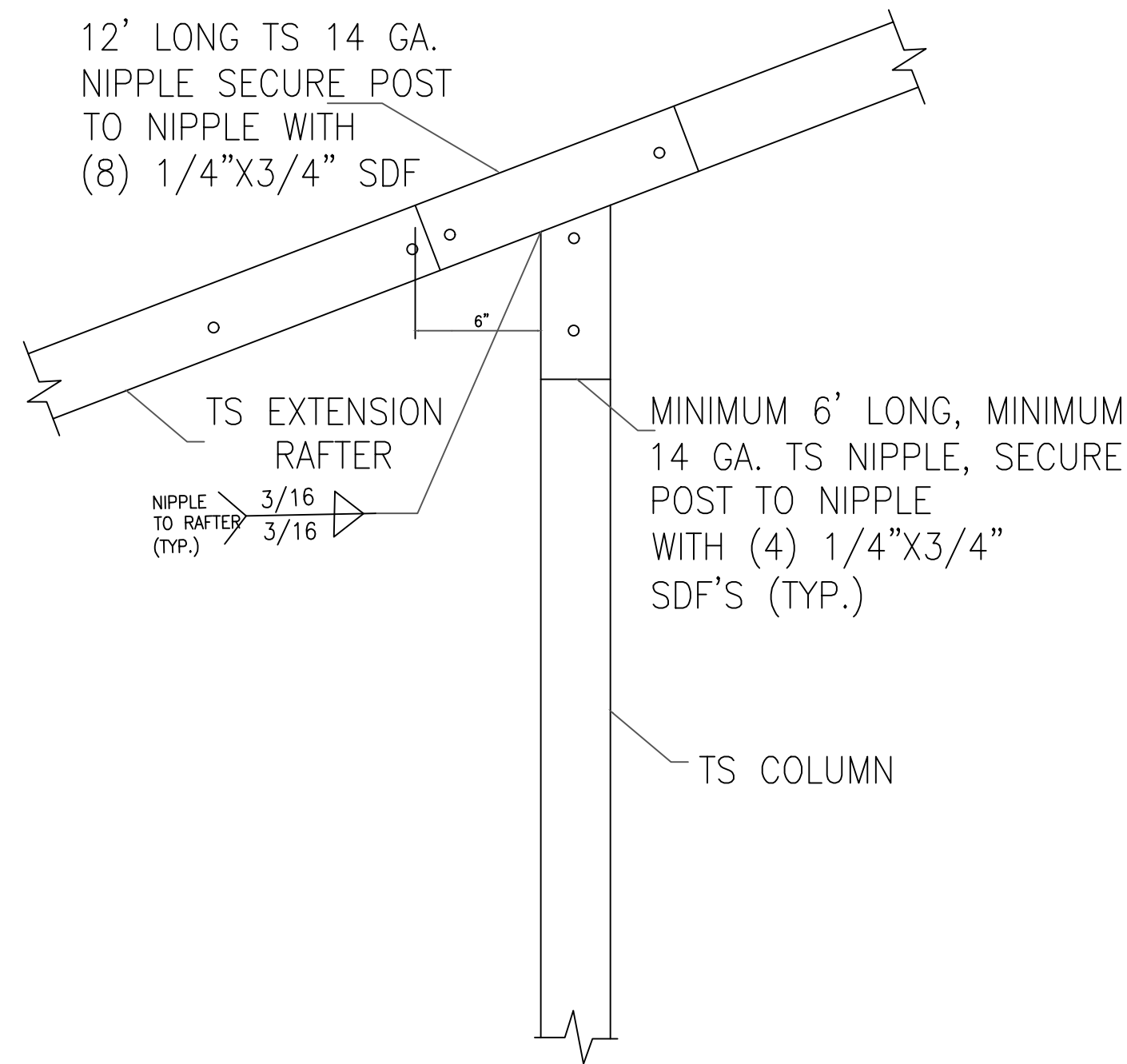
CONNECTION DETAILS

ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060

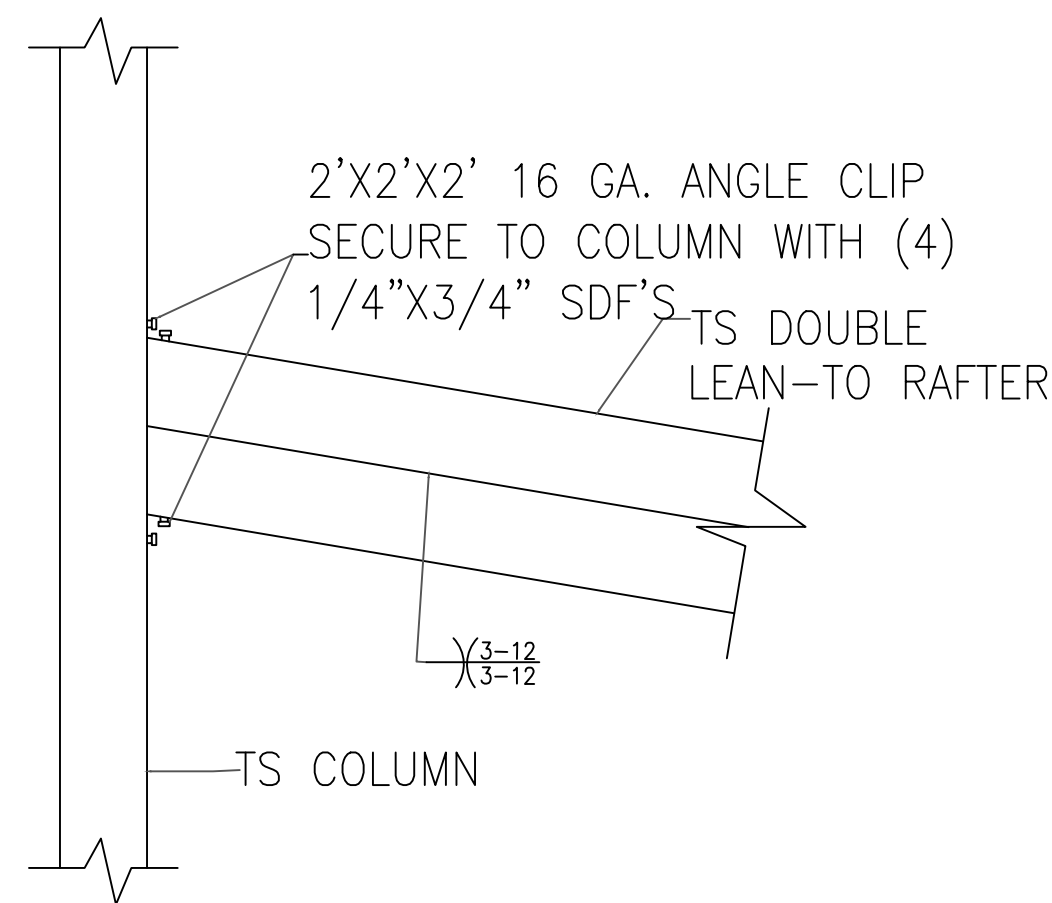
BOX EAVE RAFTER LEAN-TO OPTIONS



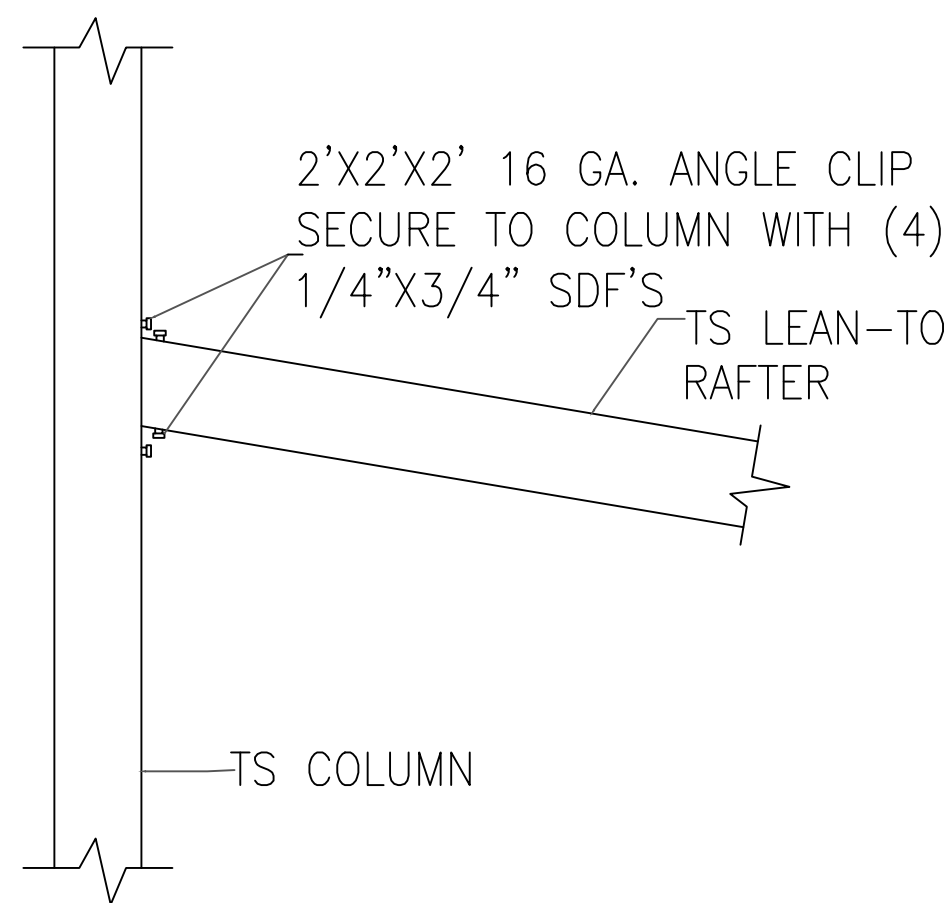
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)
SCALE: NTS



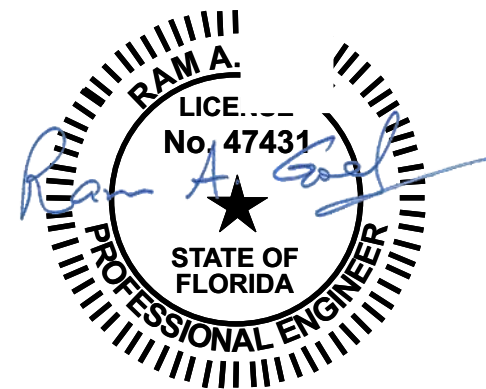
14 SIDE EXTENSION RAFTER/
CORNER POST DETAIL
SCALE: NTS



15A LEAN-TO RAFTER TO
RAFTER POST CONNECTION
DETAIL FOR WIDTHS
12'-0" < TO ≤ 16'-0"
SCALE: NTS



15B LEAN-TO RAFTER TO
RAFTER POST CONNECTION
DETAIL FOR WIDTHS ≤ 12'-0"
SCALE: NTS



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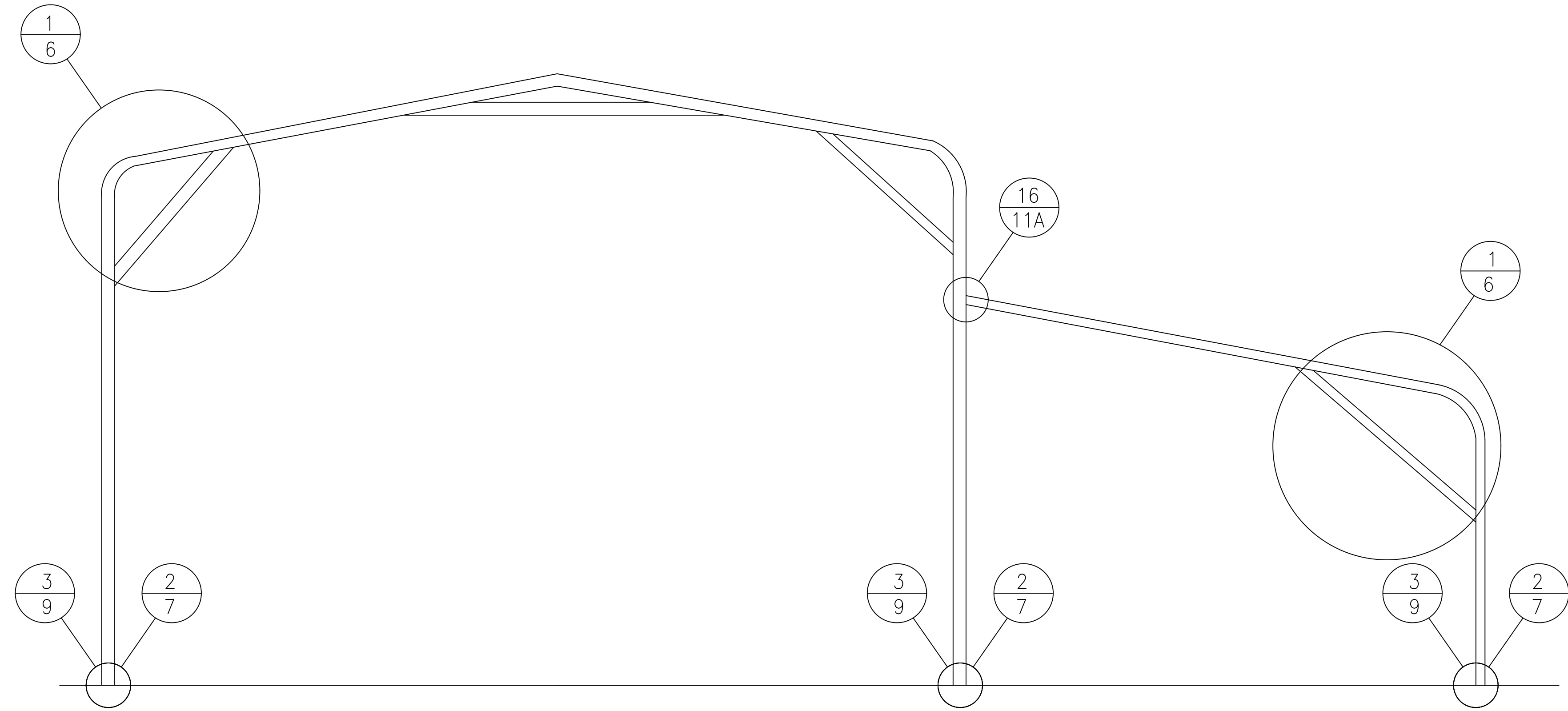
Job # S2080
Drawn By: K.D.
Checked By: S.G.

Issue Date: 08-18-21		
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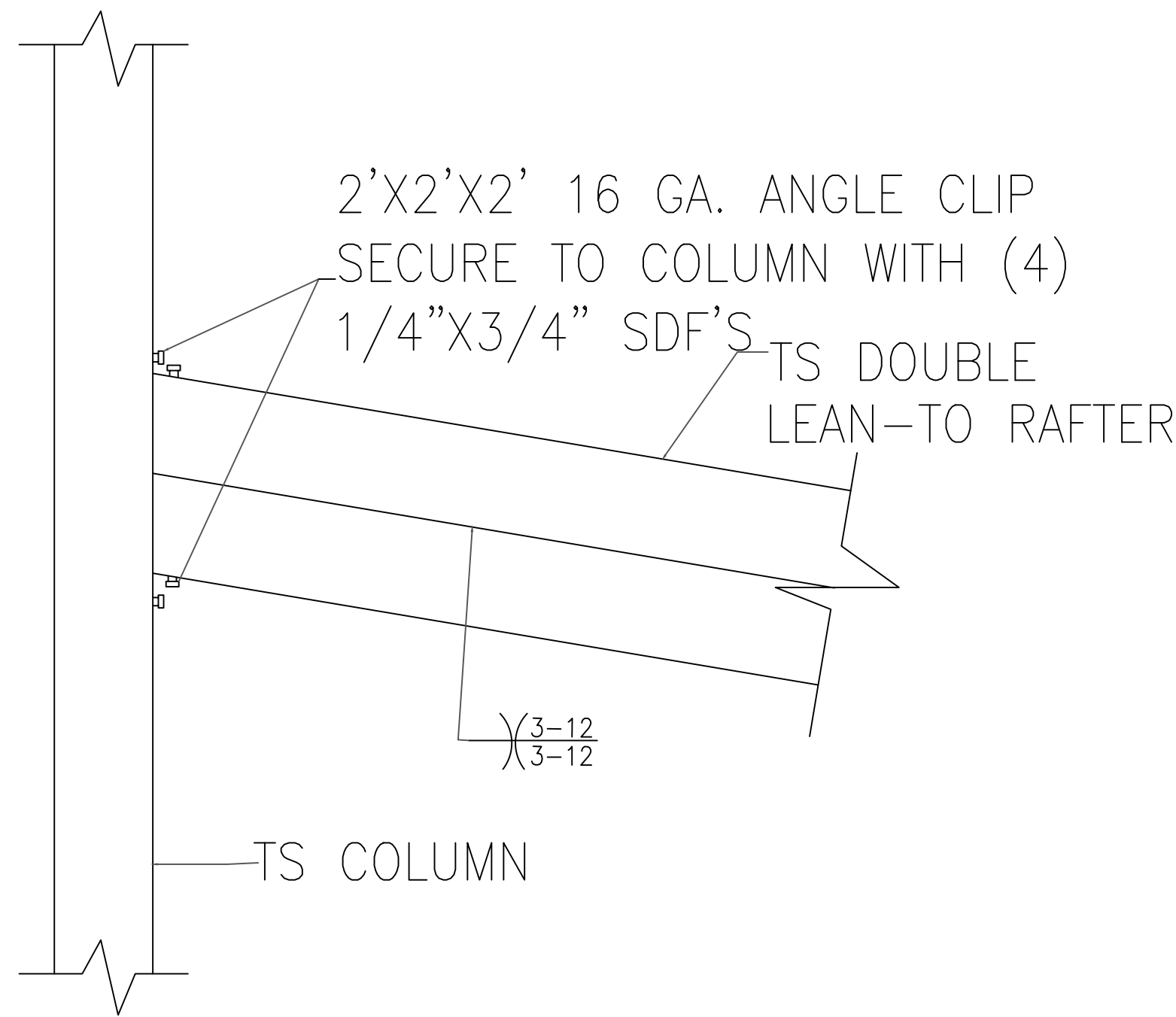
BOX EAVE RAFTER LEAN-TO OPTIONS

ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060

BOX EAVE RAFTER LEAN-TO OPTIONS

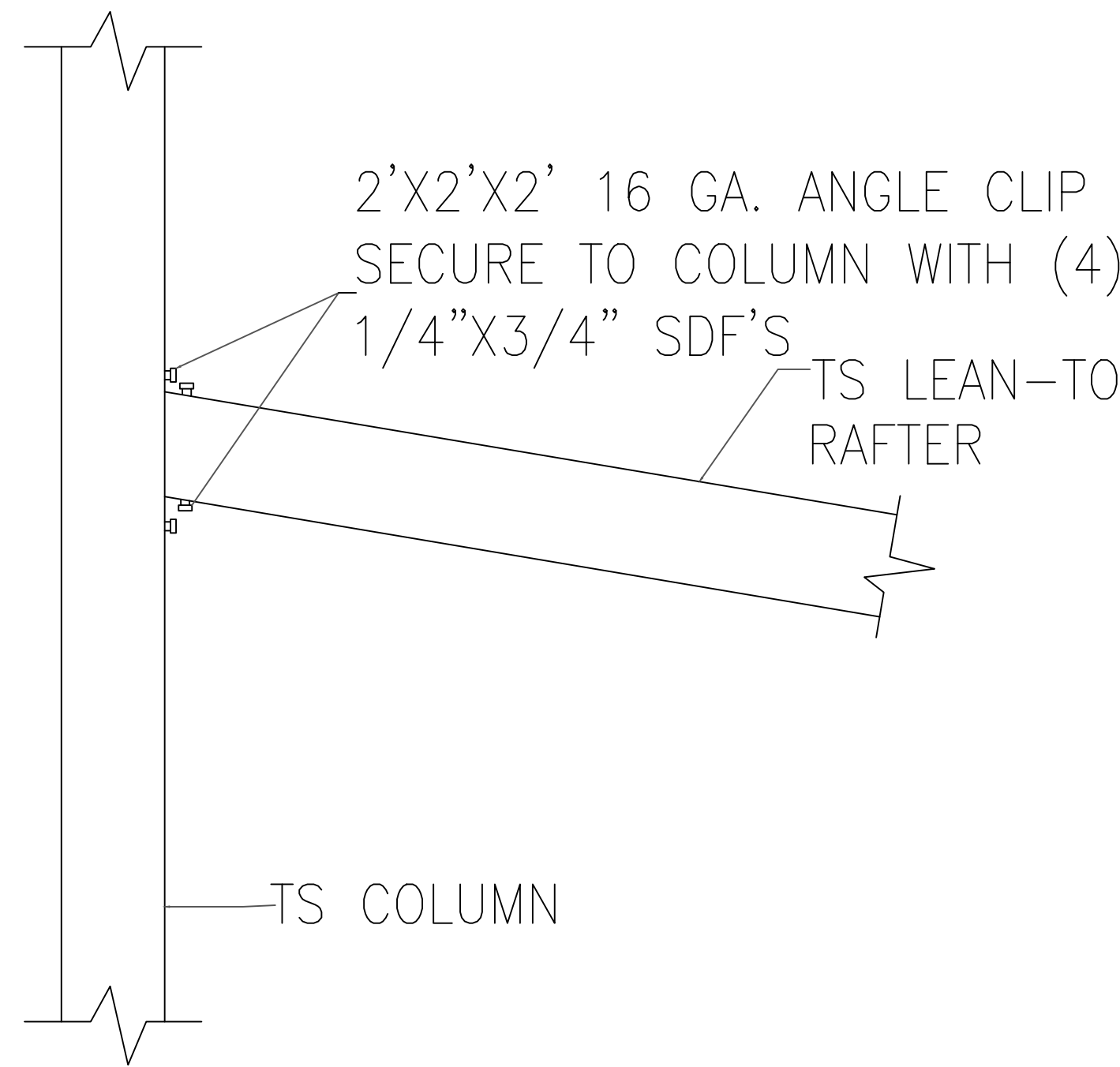


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION
SCALE: NTS



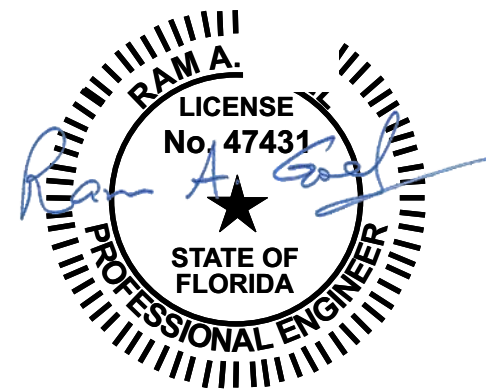
LEAN-TO RAFTER TO
RAFTER POST CONNECTION
DETAIL FOR WIDTHS
12'-0" < TO ≤ 16'-0"
SCALE: NTS

16A



LEAN-TO RAFTER TO
RAFTER POST CONNECTION
DETAIL FOR WIDTHS ≤12'-0"
SCALE: NTS

16B



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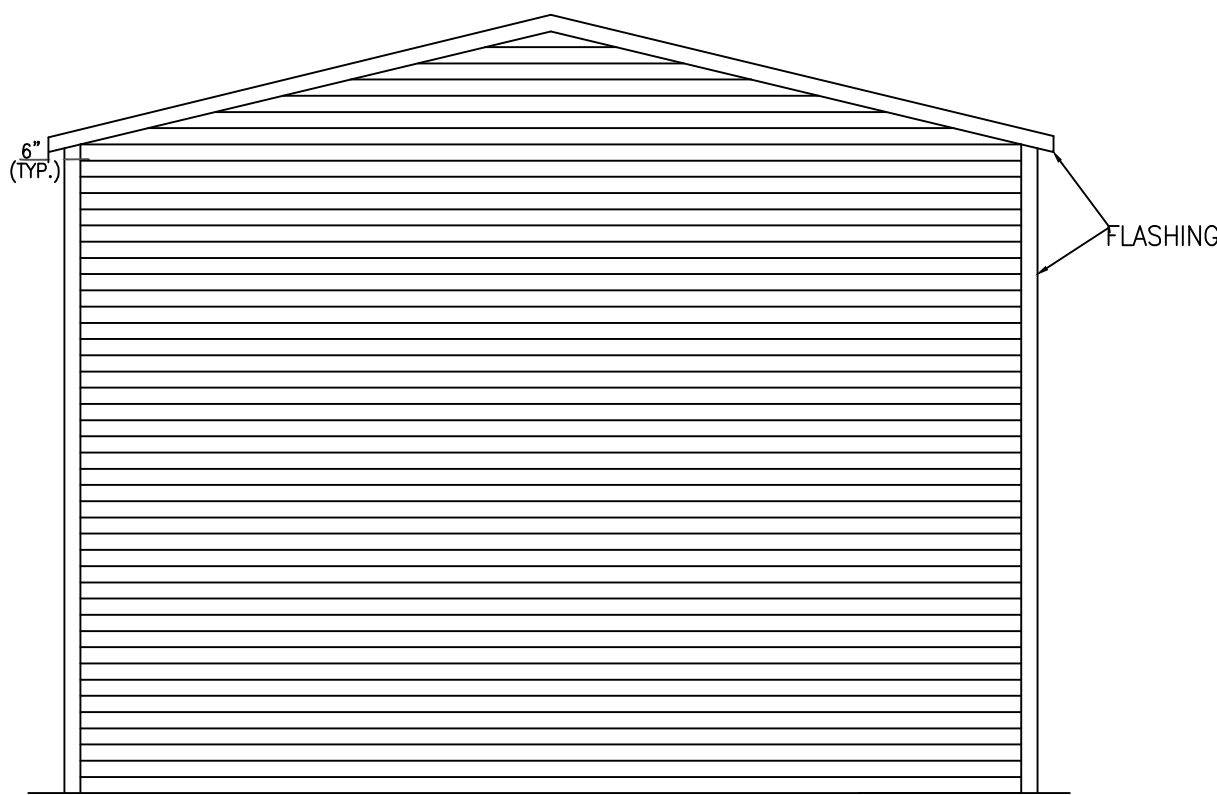
Job # S2080
Drawn By: K.D.
Checked By: S.G.

Issue Date: 08-18-21		
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BOX EAVE RAFTER LEAN-TO OPTIONS

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LIVE OAK, FL 32060

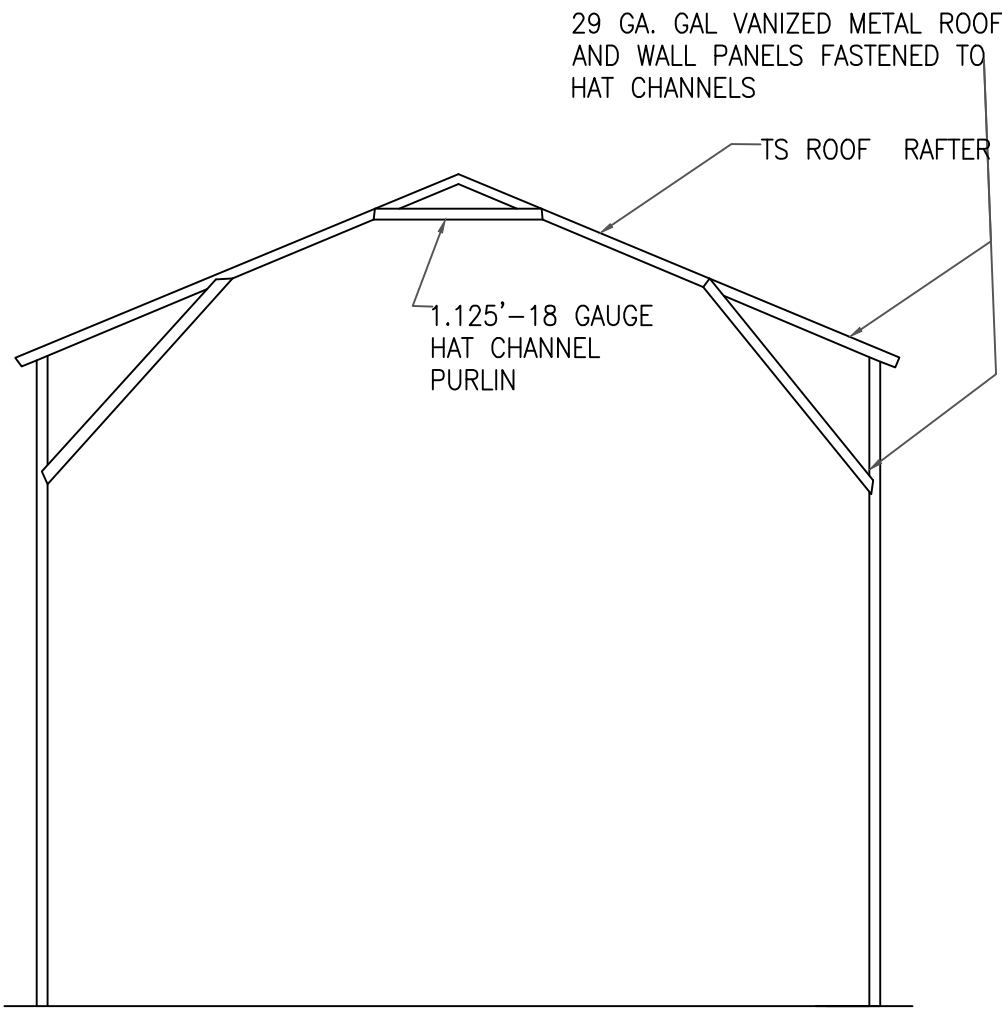
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



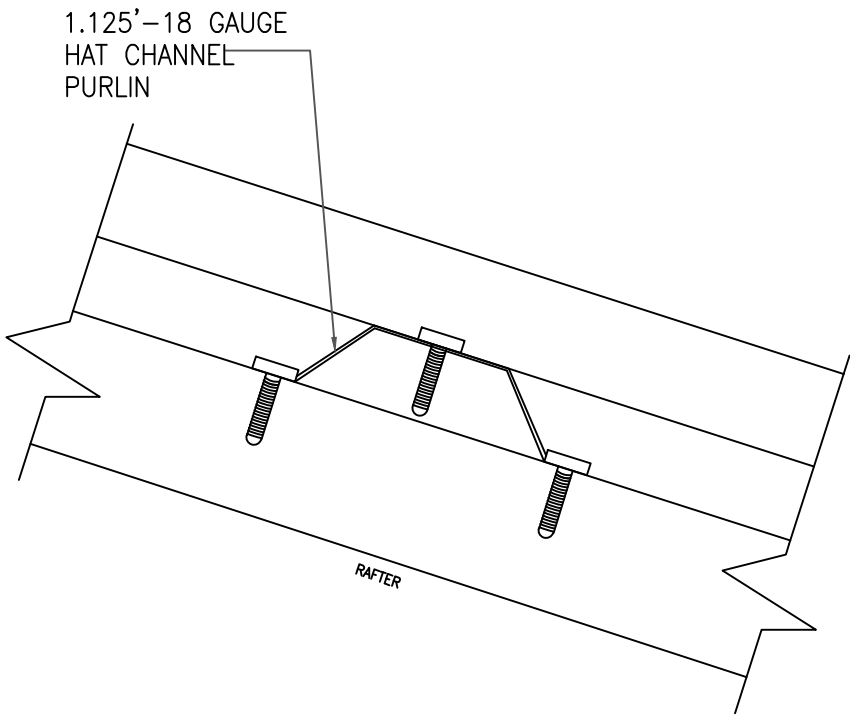
TYPICAL END ELEVATION
VERTICAL ROOF/SIDING
SCALE: N.T.S.



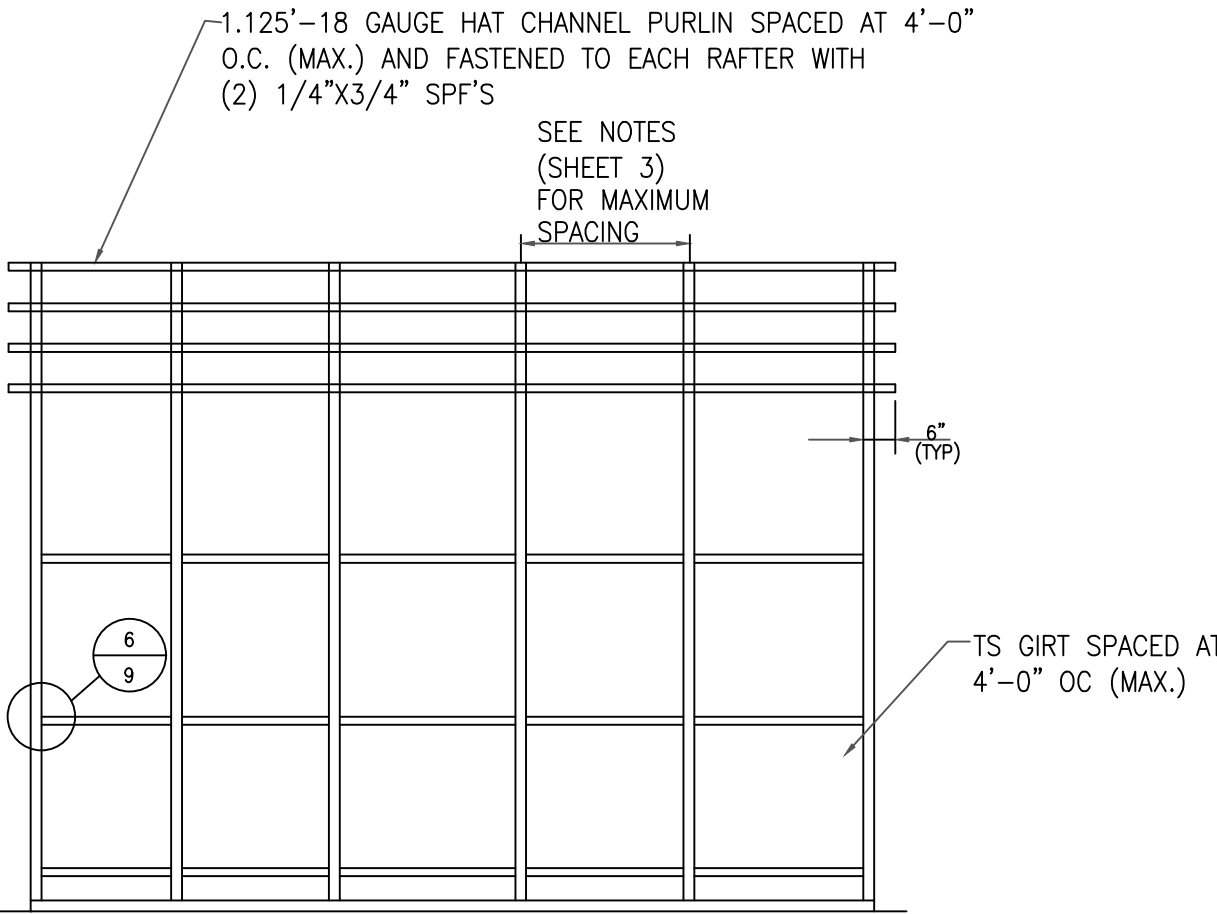
TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING
SCALE: N.T.S.



TYPICAL SECTION
VERTICAL ROOF/SIDING OPTION
SCALE: N.T.S.



PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: N.T.S.



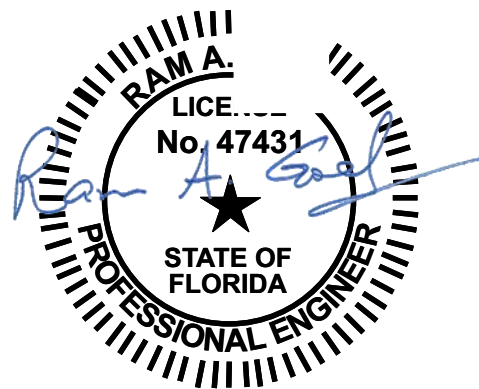
TYPICAL FRAME SECTION
VERTICAL ROOF/SIDING OPTION
SCALE: N.T.S.



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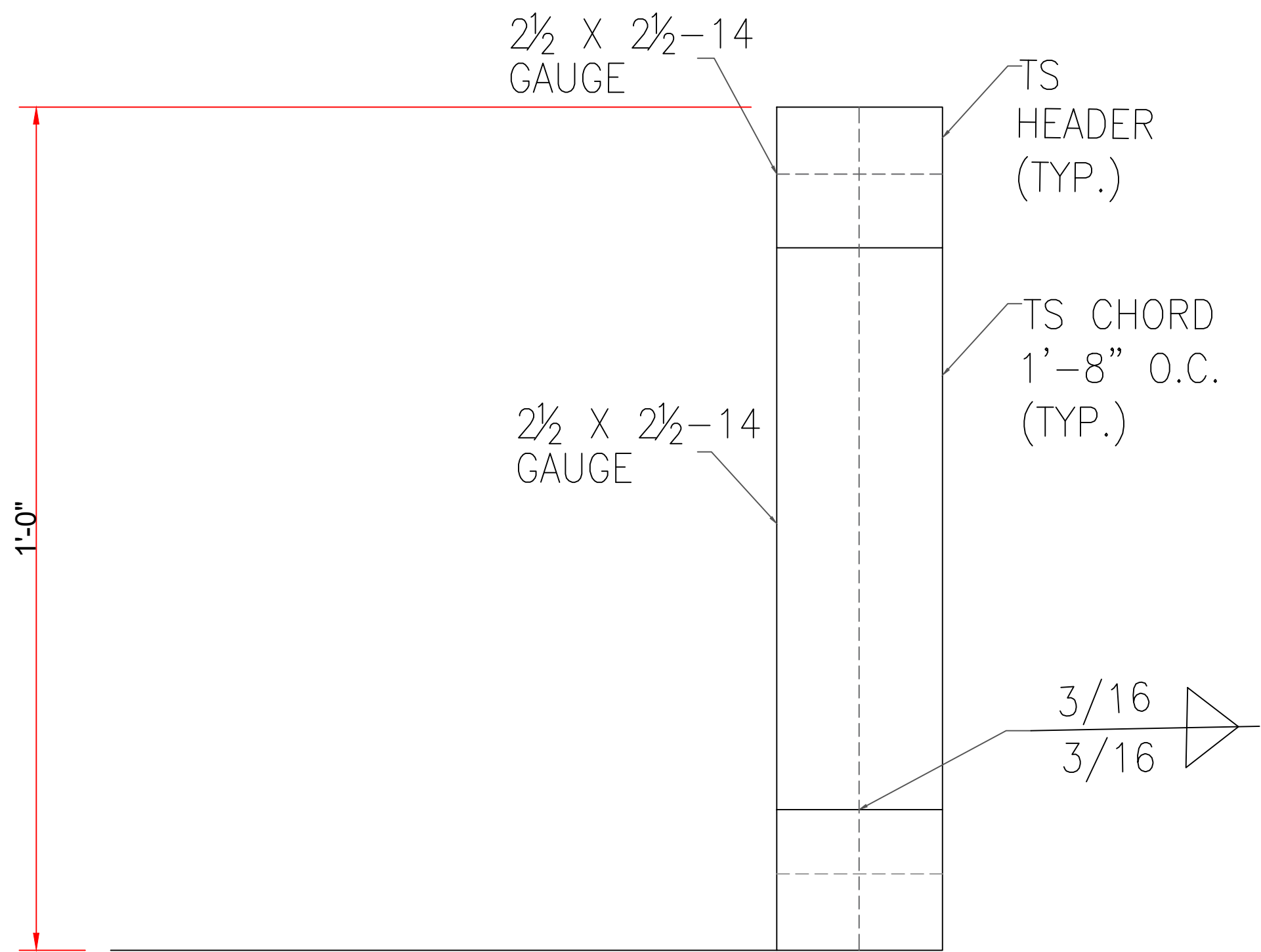
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BOX EAVE RAFTER VERTICAL
ROOF/SIDING OPTION

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LIVE OAK, FL 32060

OPTIONAL HEADER



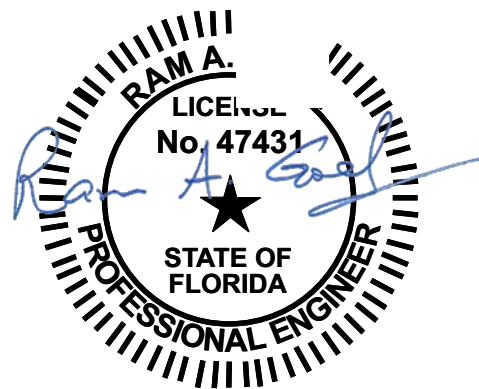
HEADER DETAIL FOR DOOR
OPENINGS 12'-0" < LENGTH ≤ 20'-0"
SCALE: N.T.S.



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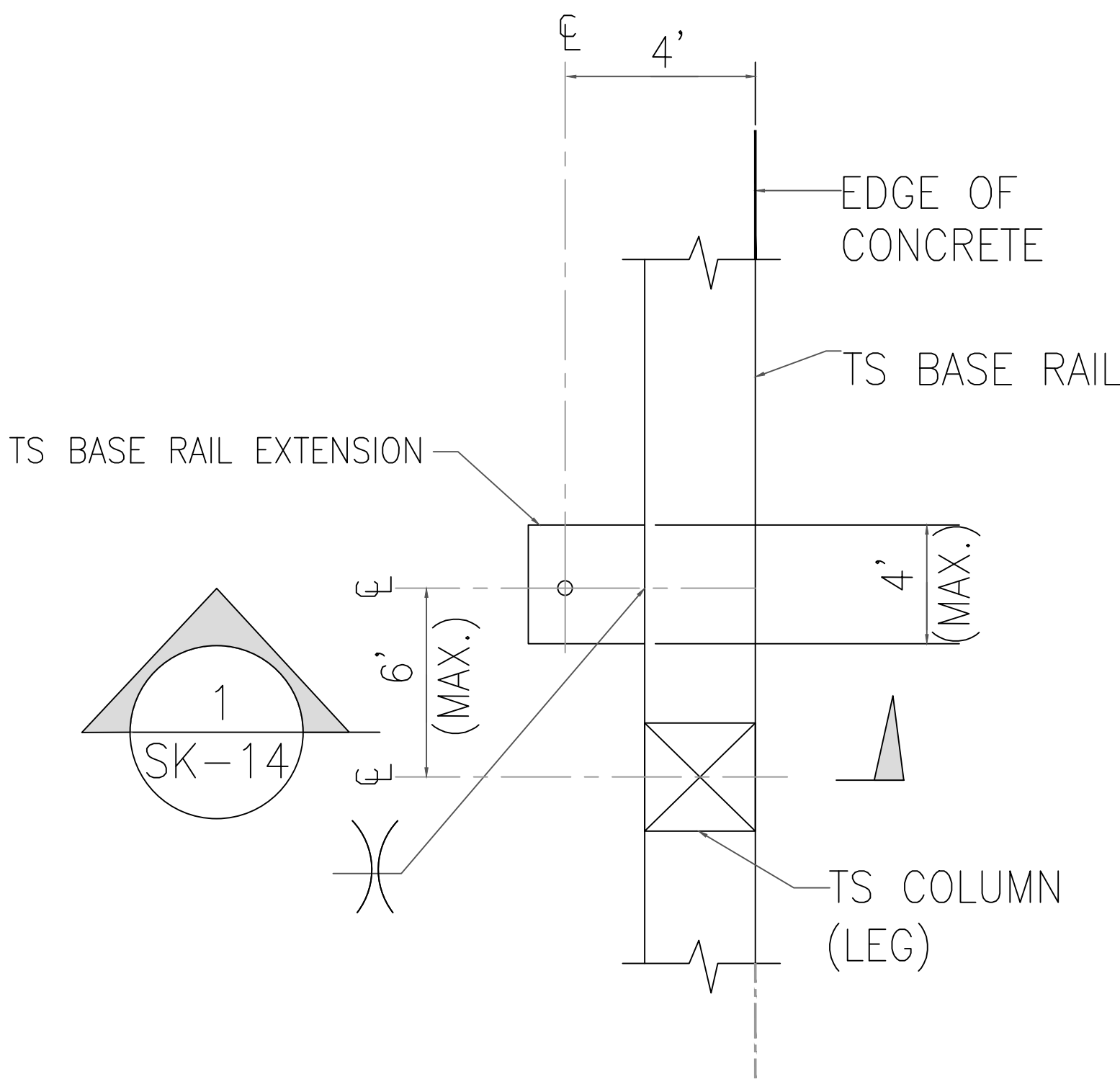
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OPTIONAL HEADER

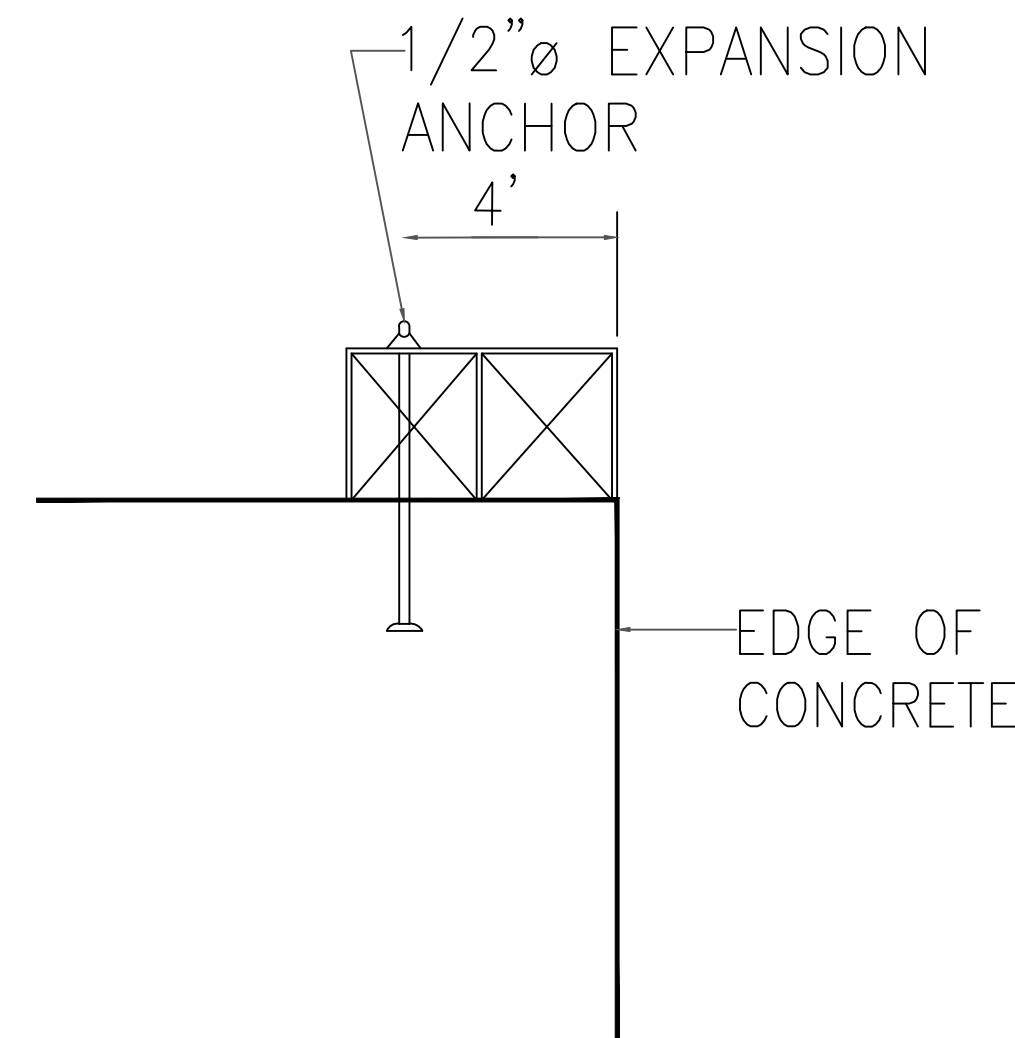
ELITE METAL MANUFACTURING, LLC
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LIVE OAK, FL 32060

ADDITIONAL BASE RAIL ANCHORAGE OPTION

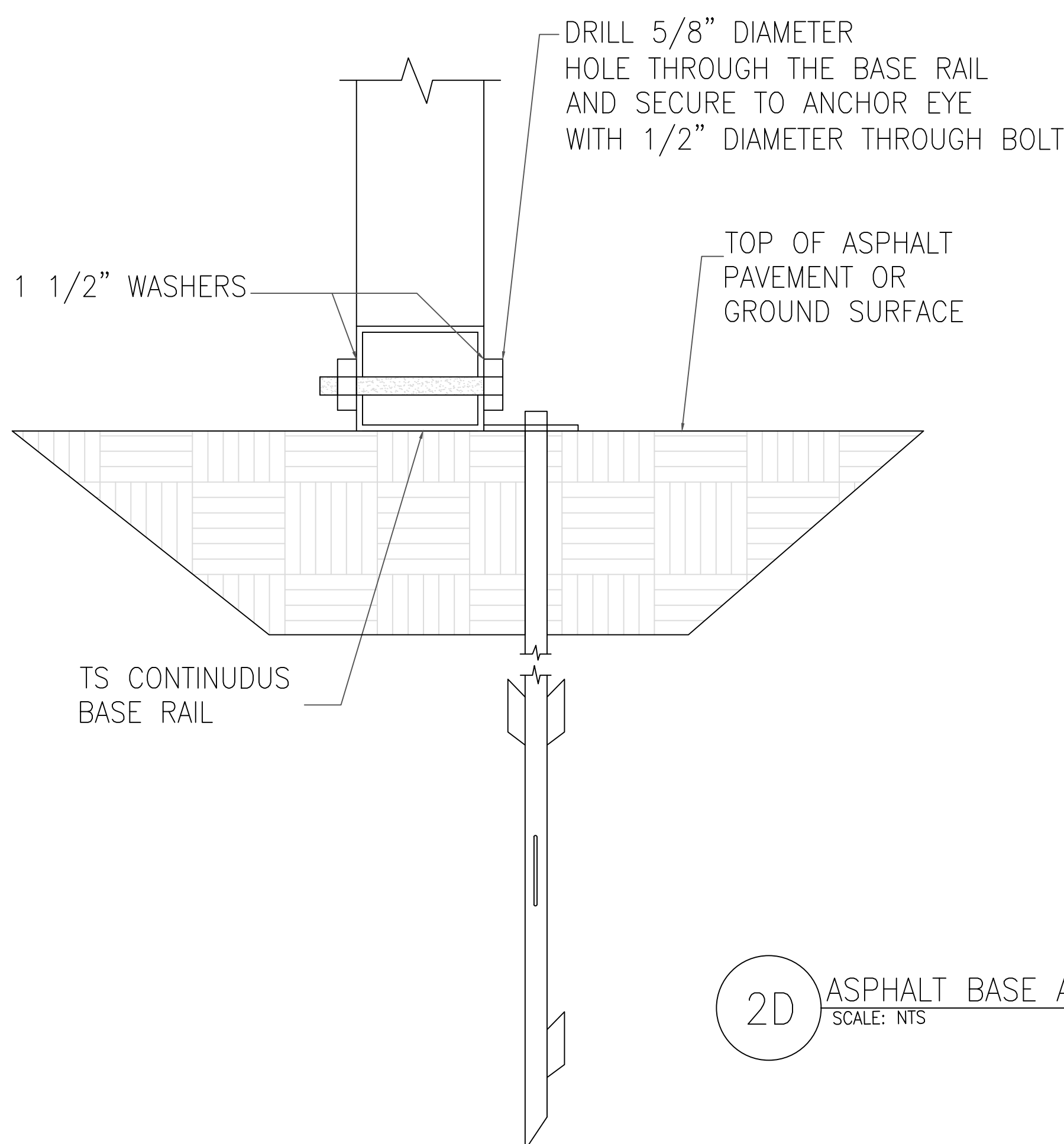
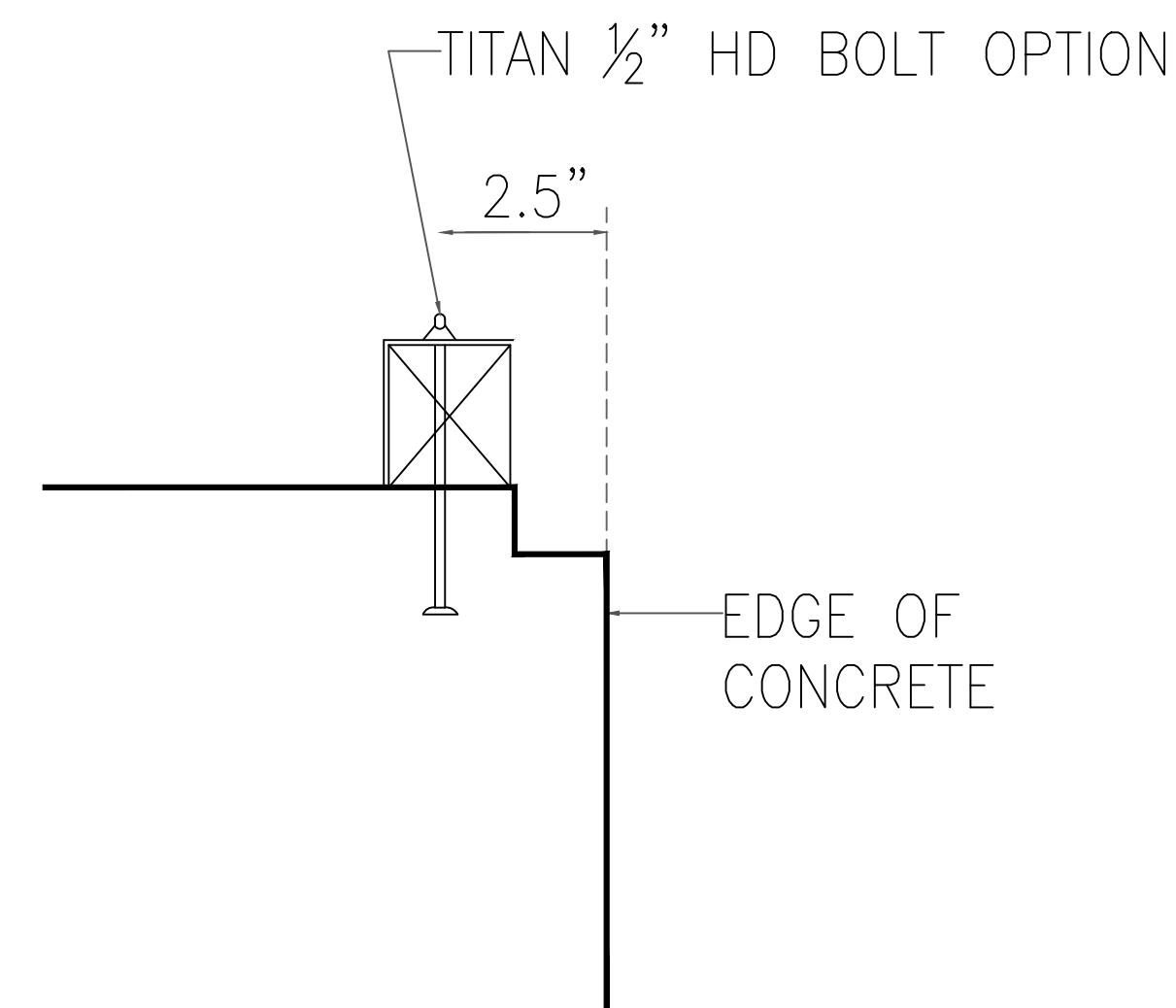


TYPICAL ANCHOR DETAIL WHEN
BASE RAIL IS NEAR EDGE OF CONCRETE

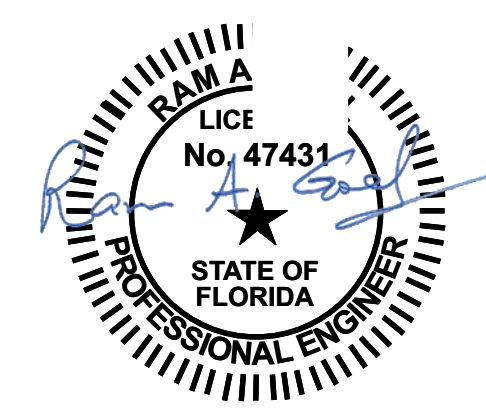
SCALE: N.T.S.



SECTION 1
SCALE: N.T.S. SK-14



2D ASPHALT BASE ANCHORAGE
SCALE: NTS



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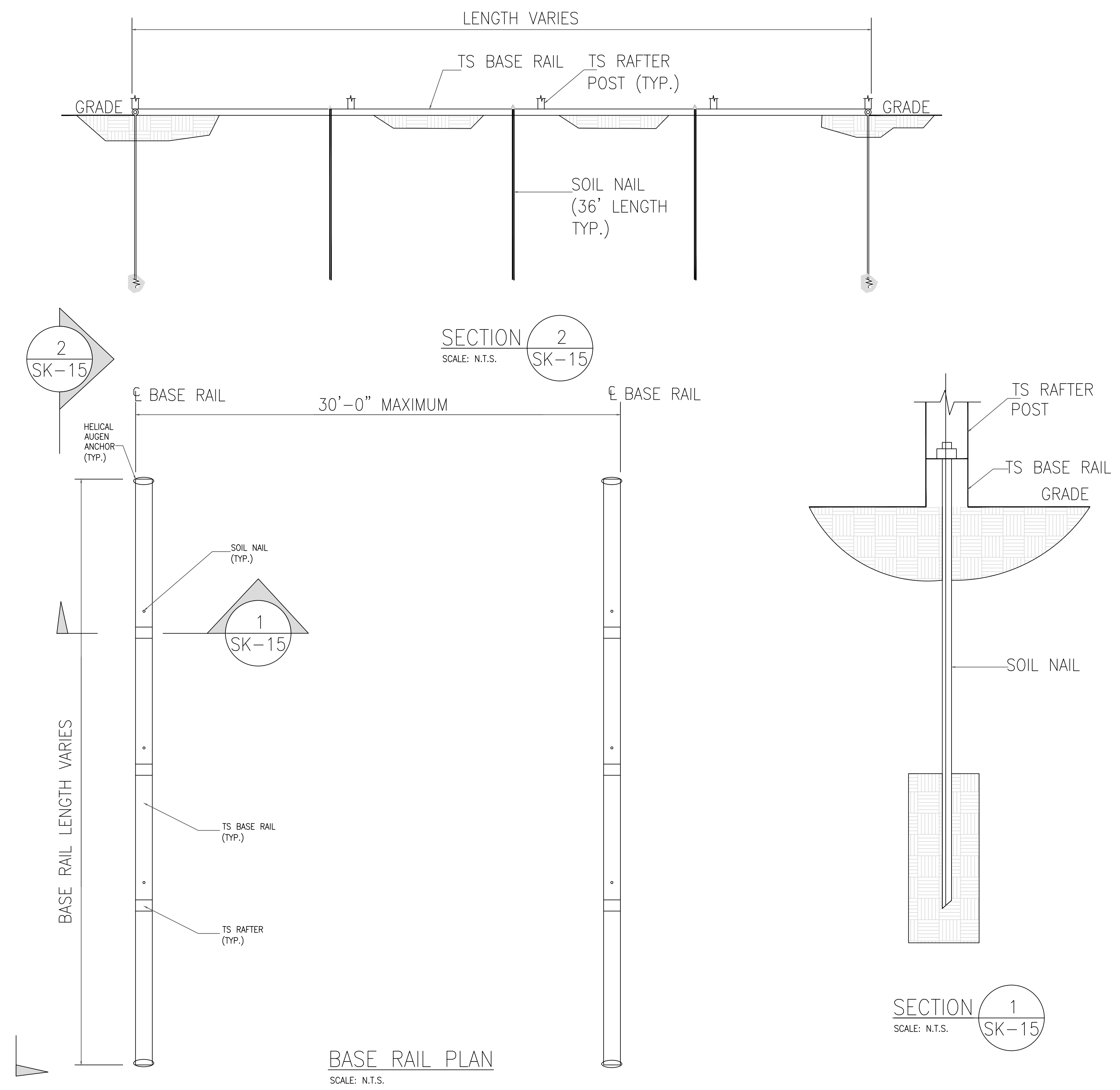
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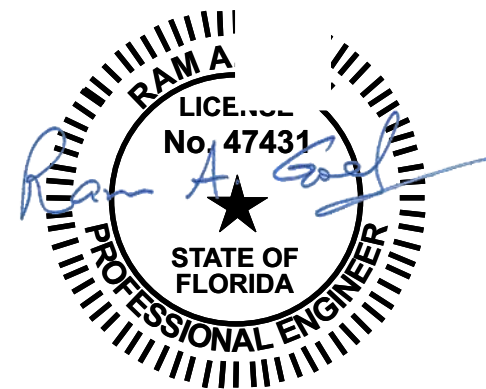
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ADDITIONAL BASE RAIL ANCHORAGE OPTION

ELITE METAL MANUFACTURING, LLC
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LIVE OAK, FL 32060



HELIX ANCHOR	
SIDE LENGTH	MAXIMUM SPACING
VARIES	10'-0" (EVERY OTHER POST)



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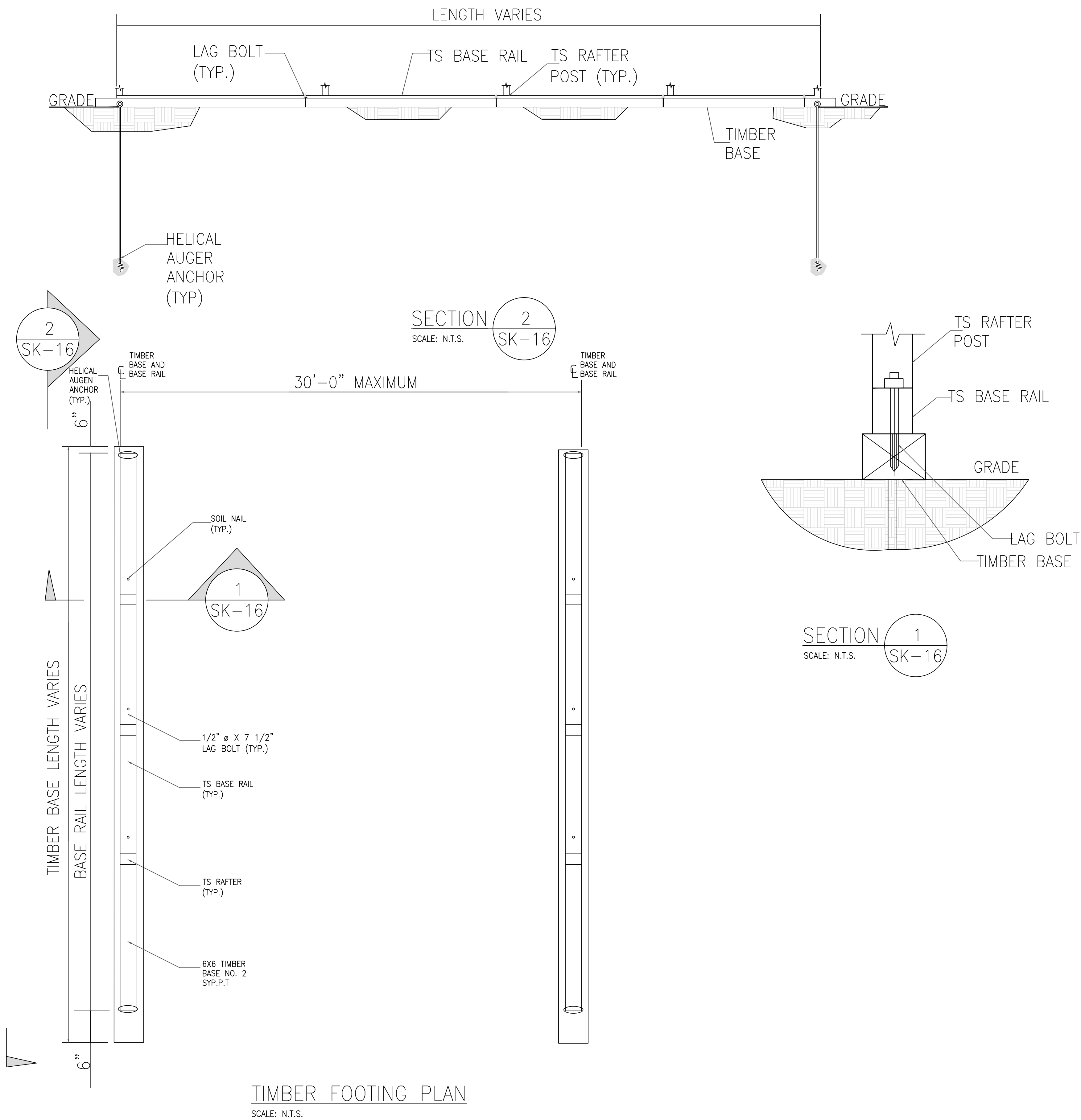
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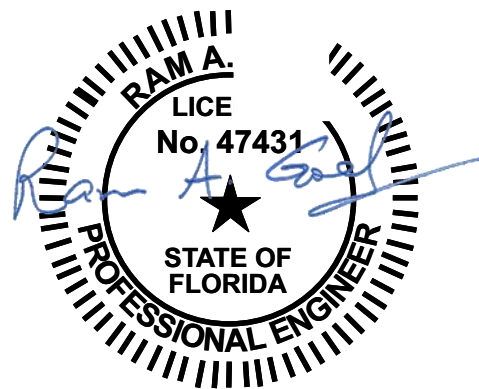
OPTIONAL BASE RAIL ON GRADE APPLICATION

ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060

OPTIONAL BASE RAIL ON GRADE APPLICATION



HELIX ANCHOR	
SIDE LENGTH	MAXIMUM SPACING
VARIES	10'-0" (EVERY OTHER POST)



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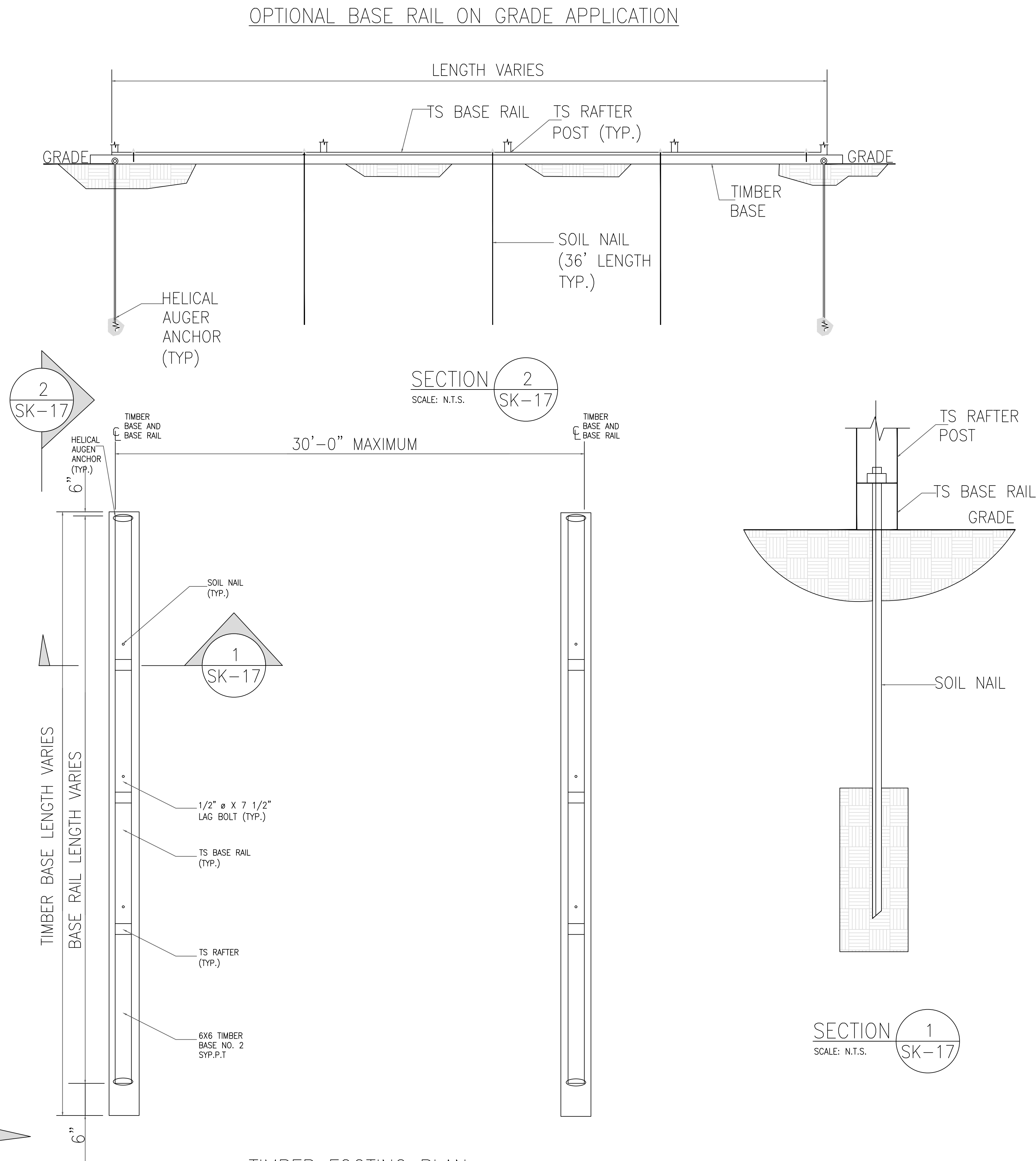
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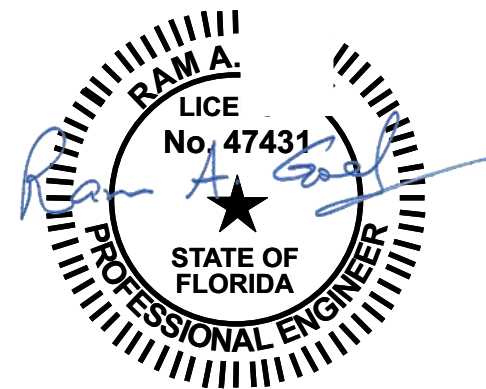
OPTIONAL BASE RAIL ON GRADE APPLICATION

ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060



TIMBER FOOTING PLAN
SCALE: N.T.S.

HELIX ANCHOR	
SIDE LENGTH	MAXIMUM SPACING
VARIES	10'-0" (EVERY OTHER POST)



NOTE:
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Dr. Ram A. Goel PE # 47431

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SONEY FM LLC
CORY LAKE PROFESSIONAL CENTER
10329 CROSS CREEK BLVD., SUITE P
TAMPA, FL 33647
www.soneyfmllc.com

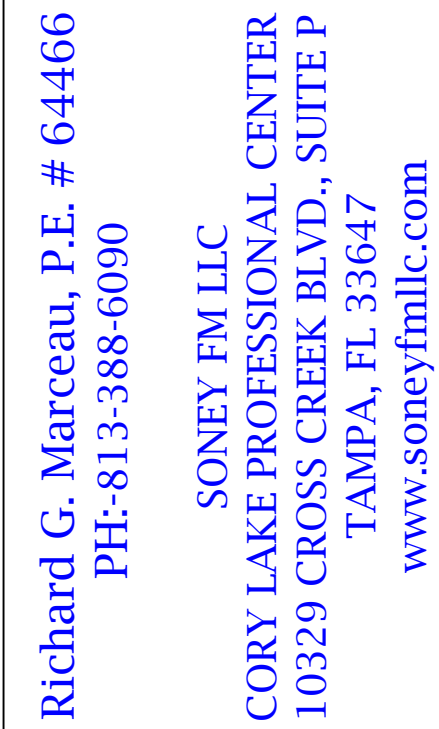
Job # S2080
Drawn By: K.D.
Checked By: S.G.

Issue Date: 08-18-21		
Revisions:		
No.	Date	Description
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OPTIONAL BASE RAIL ON GRADE APPLICATION

ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060

SONEYFM
ENGINEERS
Professional, Efficient & Economical



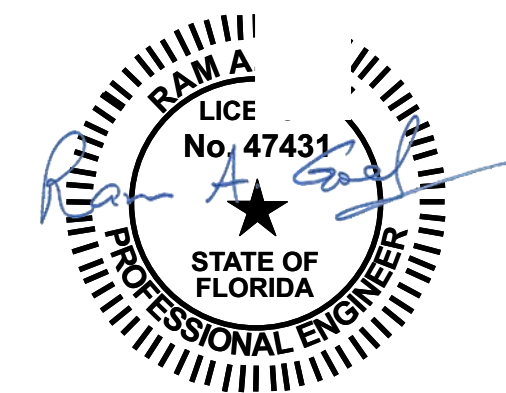
Drawn By: K.D.

Checked By: S.G.

Revisions:

OPTIONAL CONCRETE STRIP FOOTING

ELITE METAL MANUFACTURING, LLC
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⌘ COORDINATE WITH LOCAL CODES/ORD.