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MASTER SET



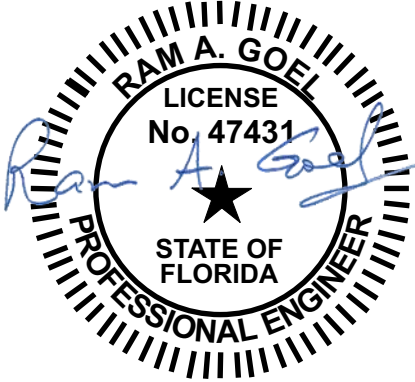
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DRAWING INDEX
ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060

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 21/2" X 21/2" – 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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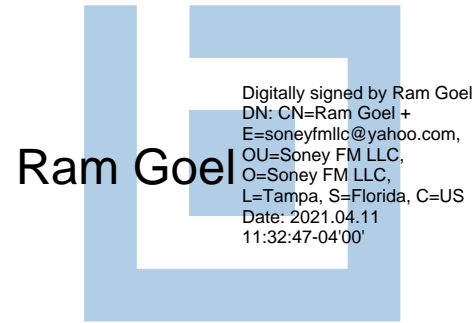
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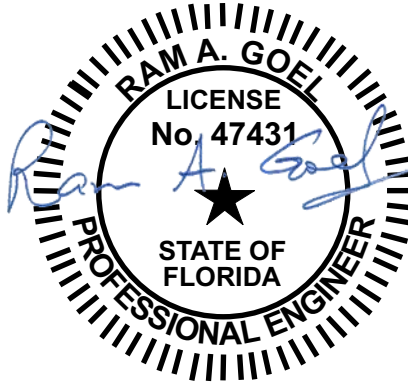
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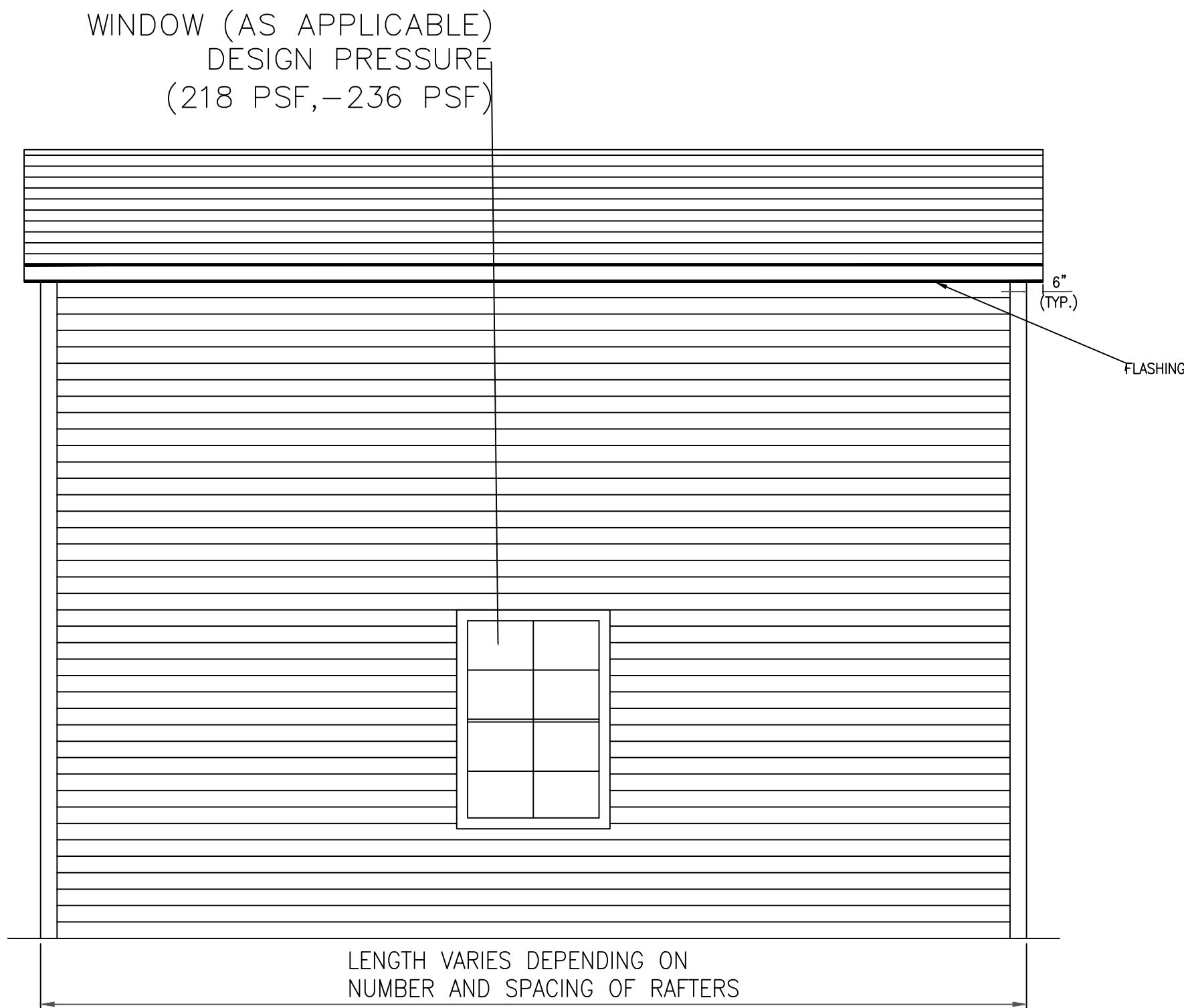


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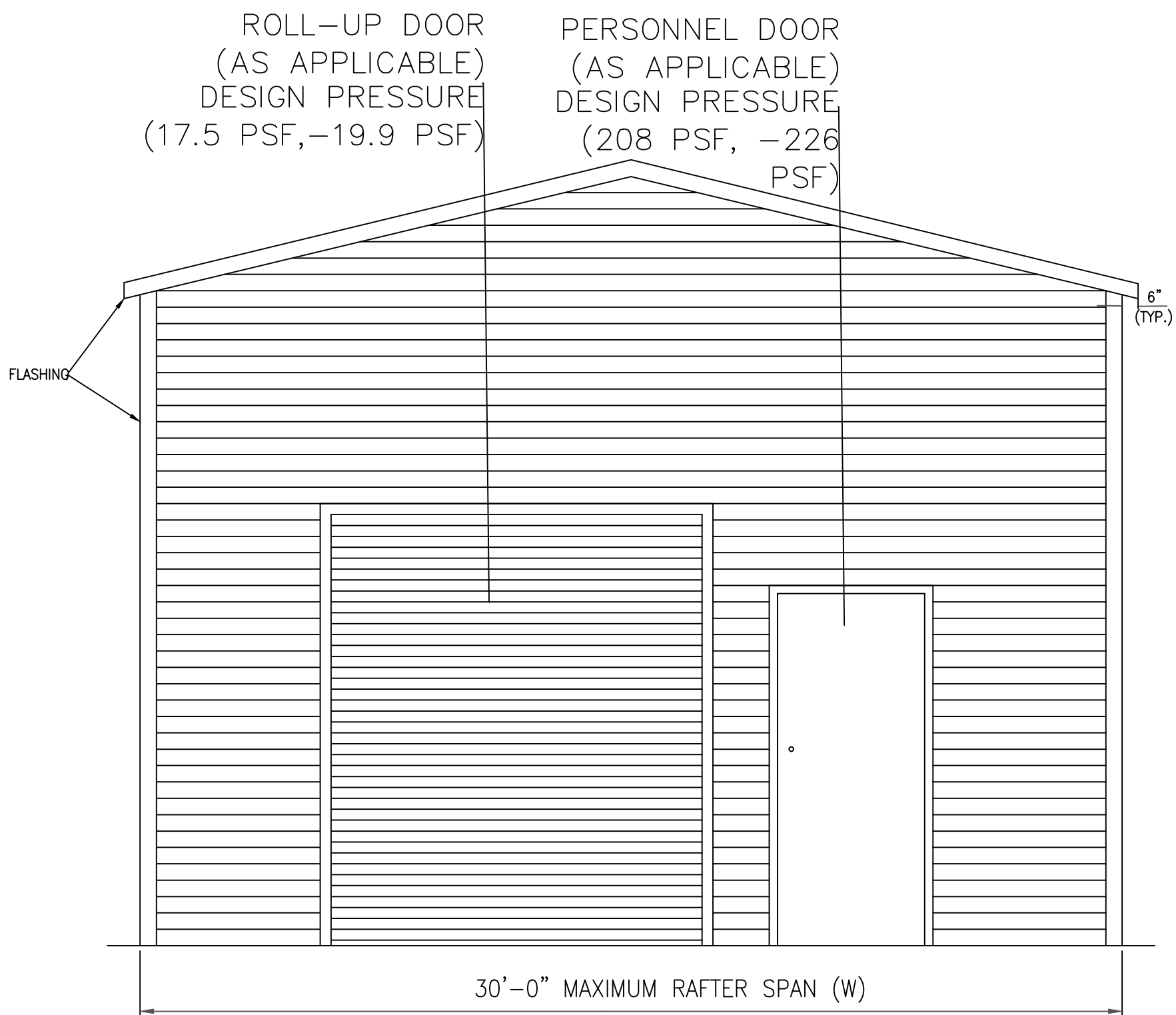
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BOX EAVE FRAME RAFTER STRUCTURE



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TYPICAL END ELEVATION
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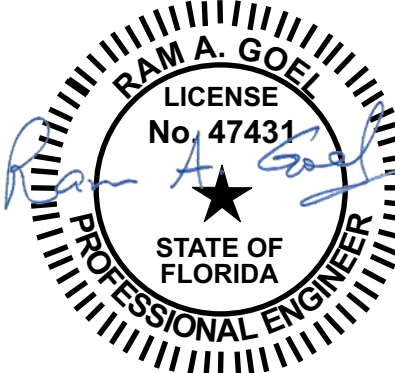
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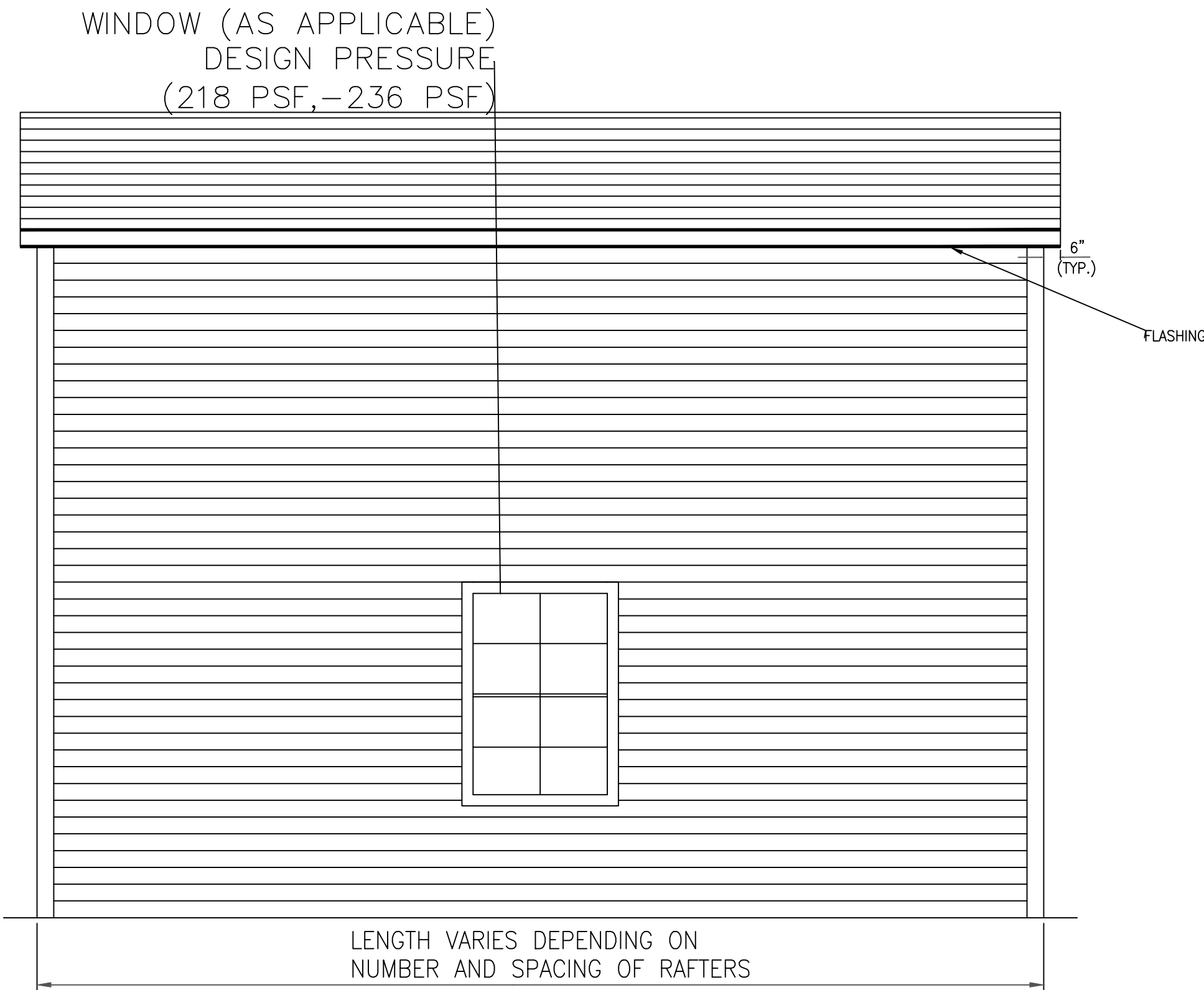
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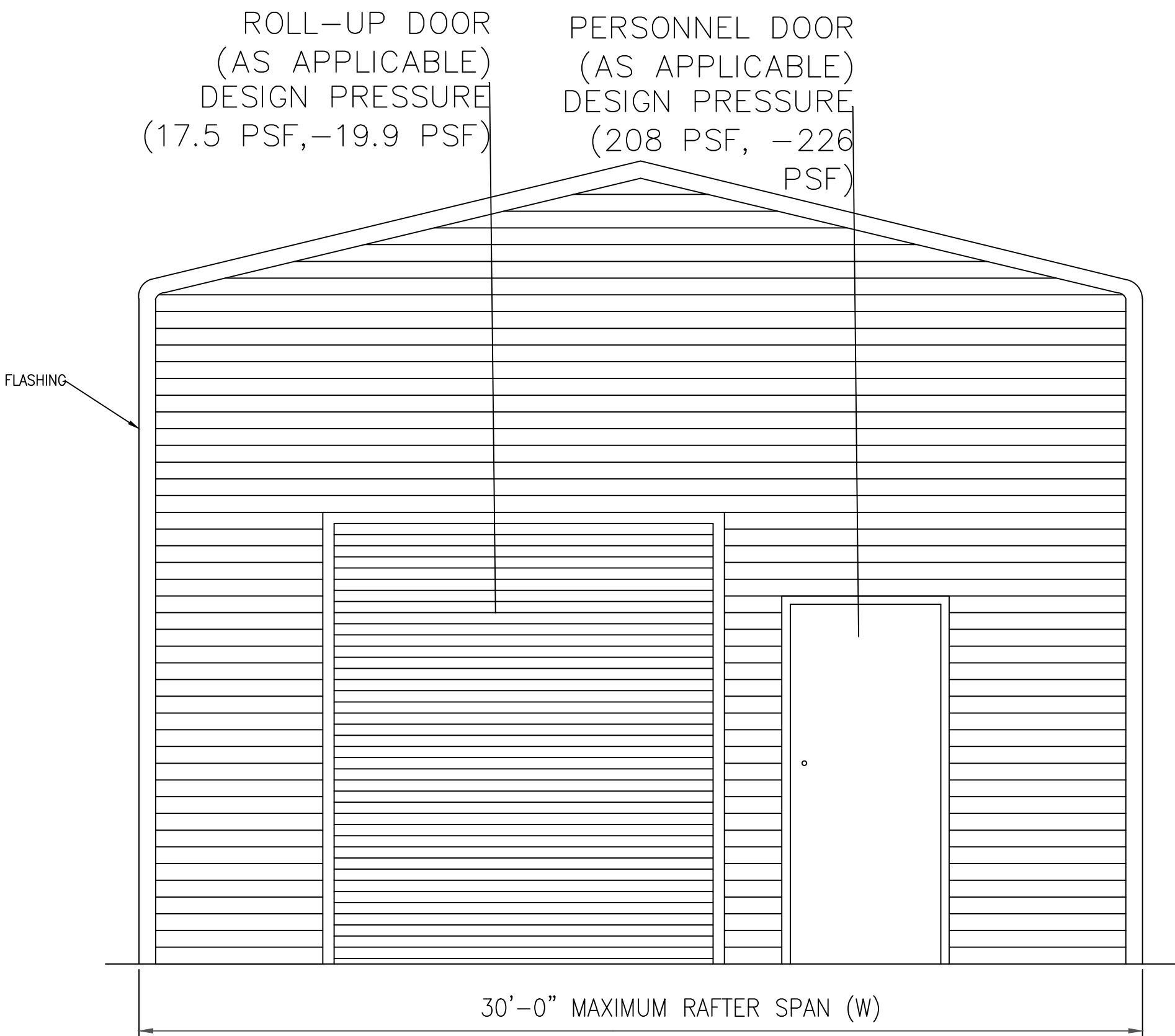
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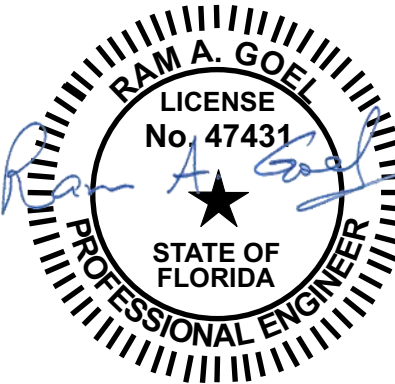
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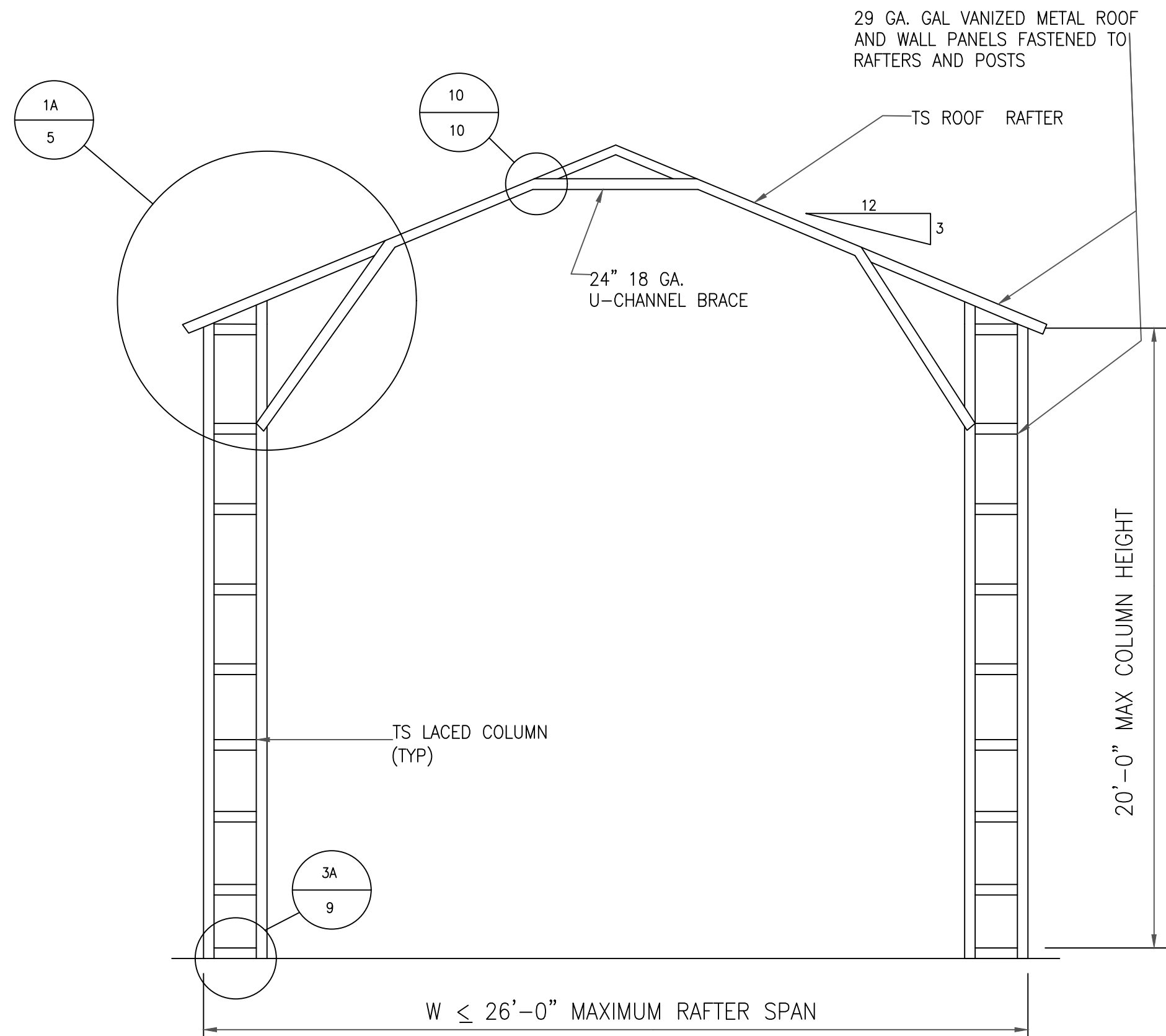


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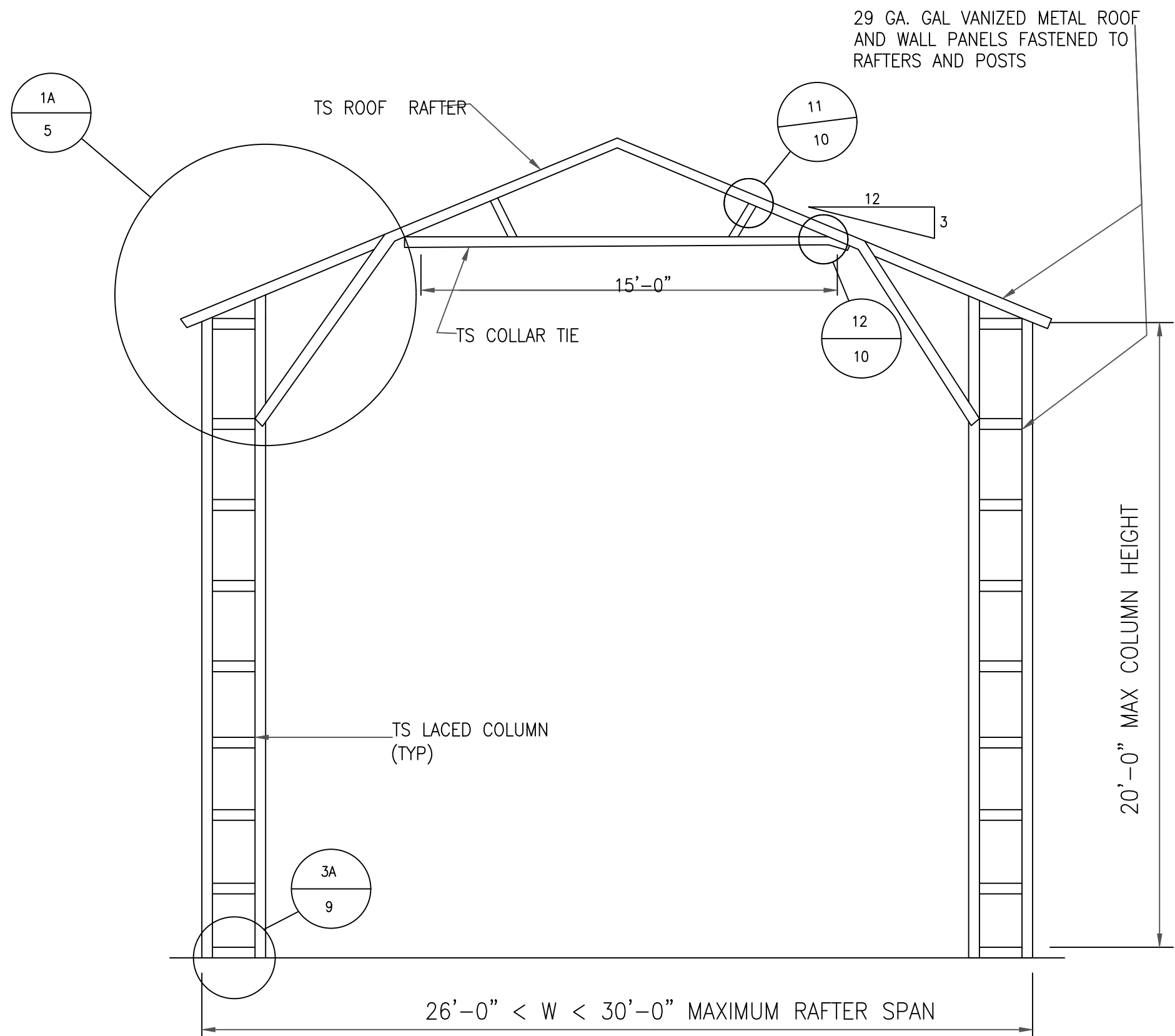
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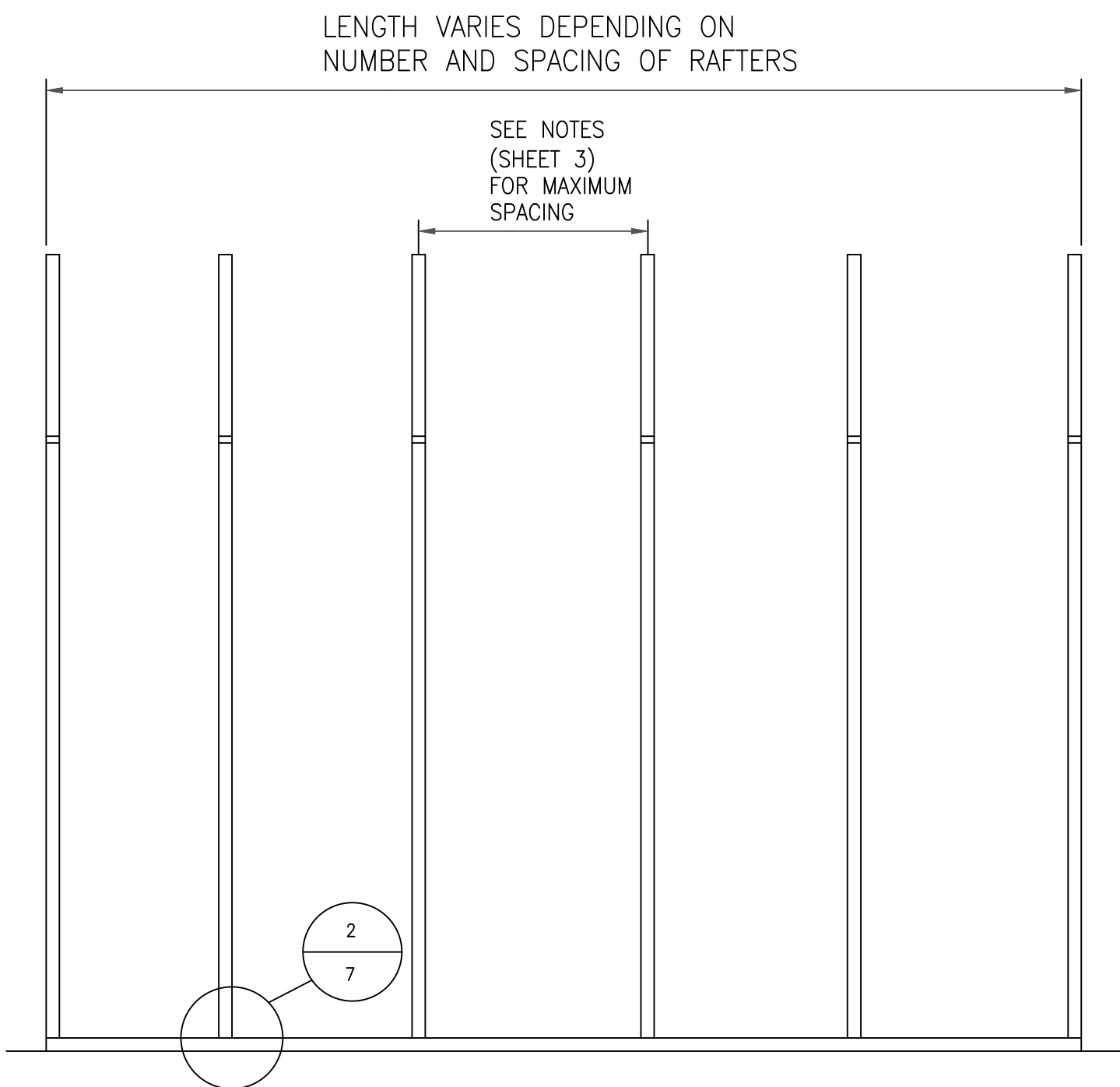
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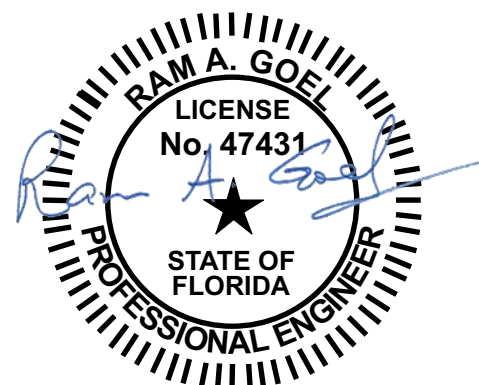
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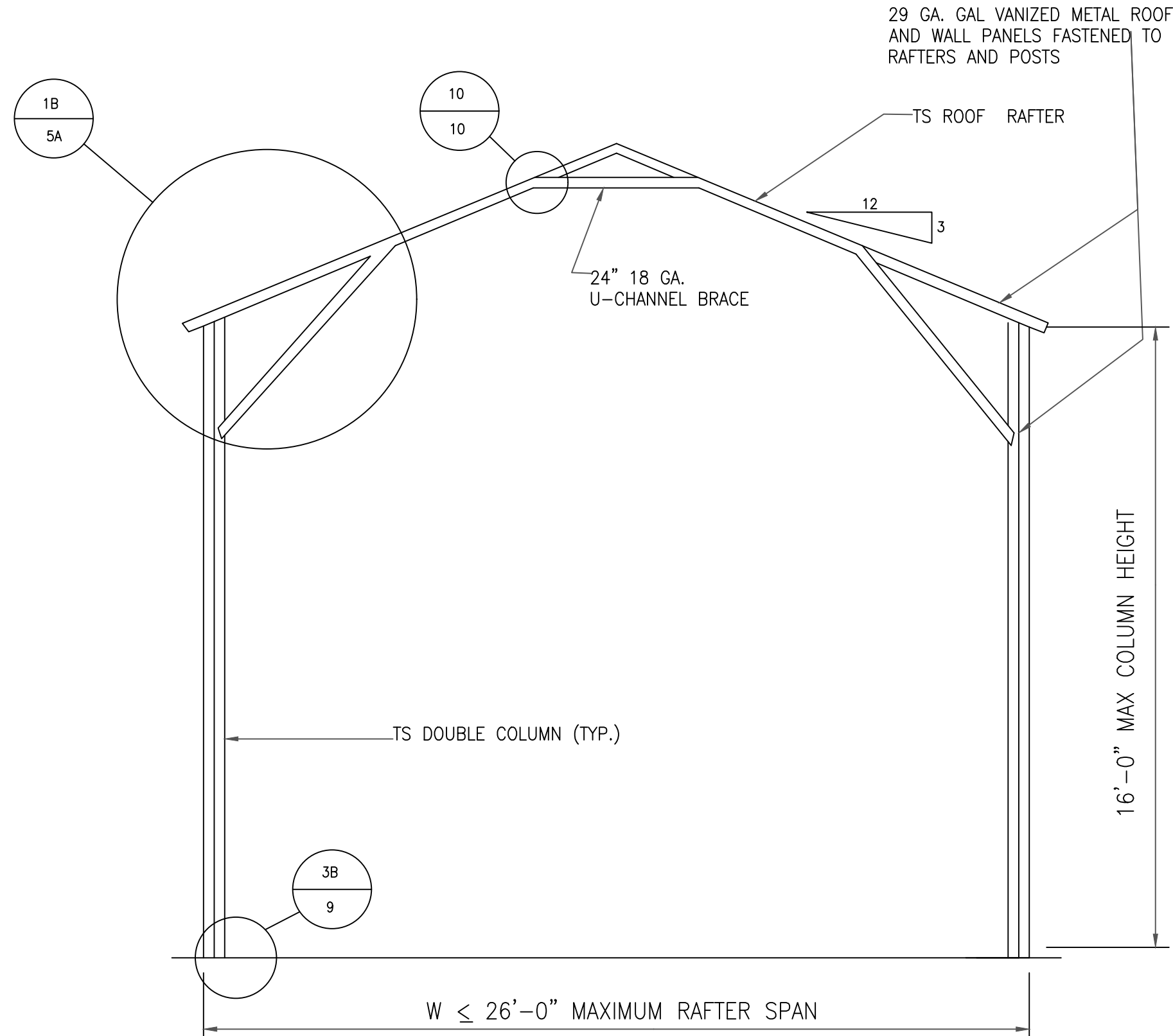
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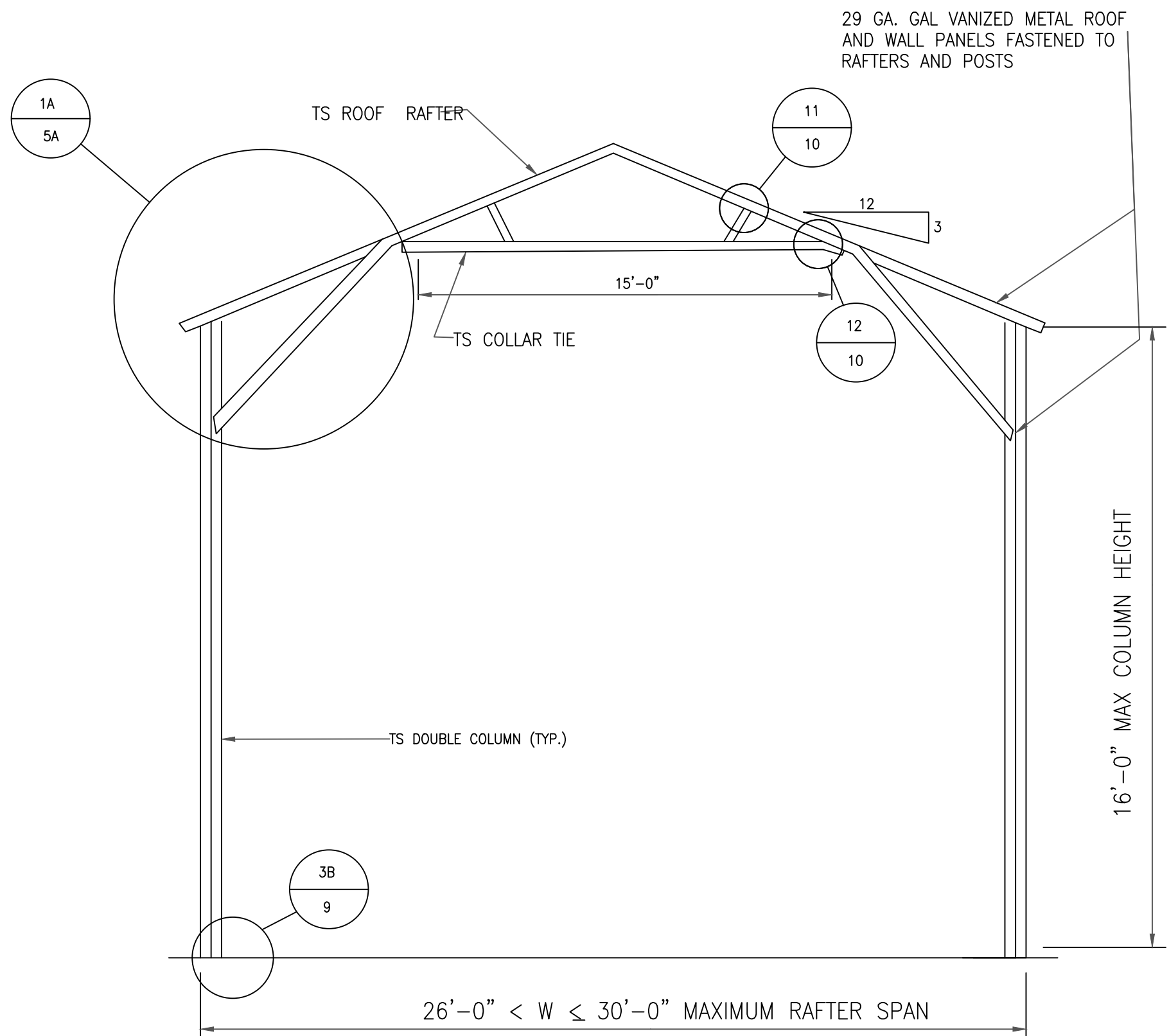
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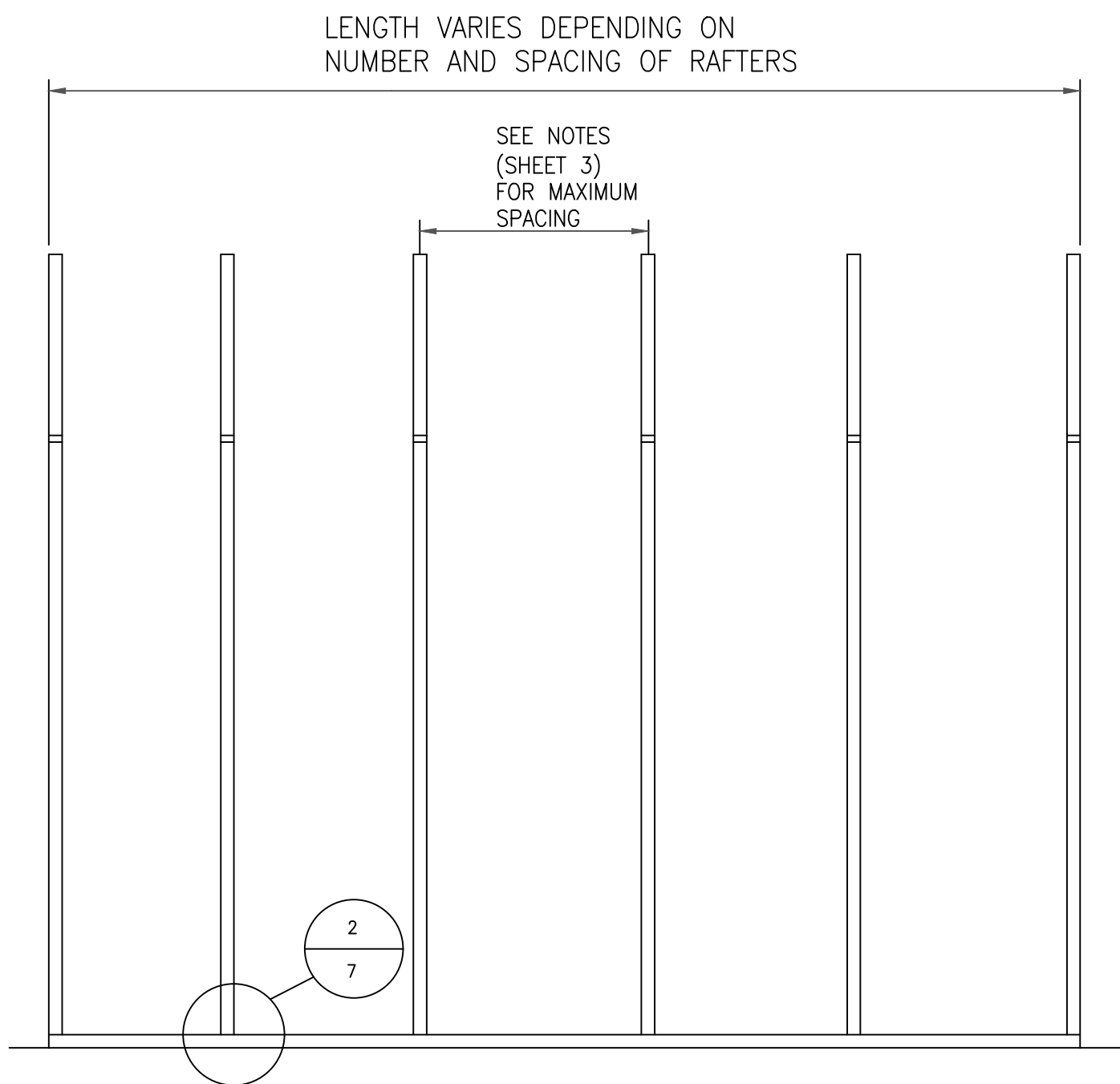
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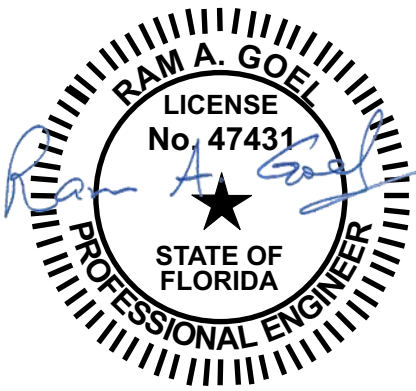
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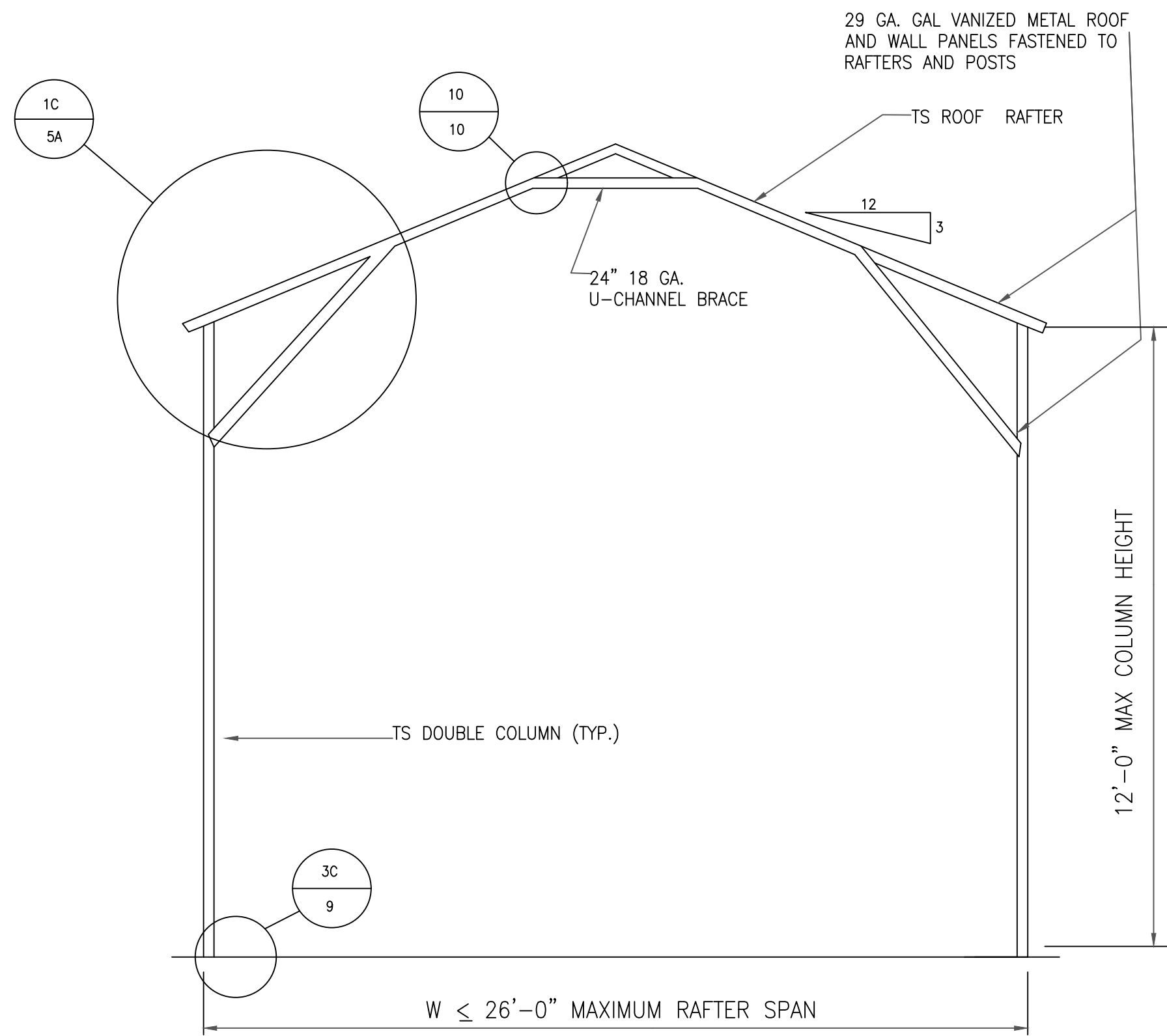
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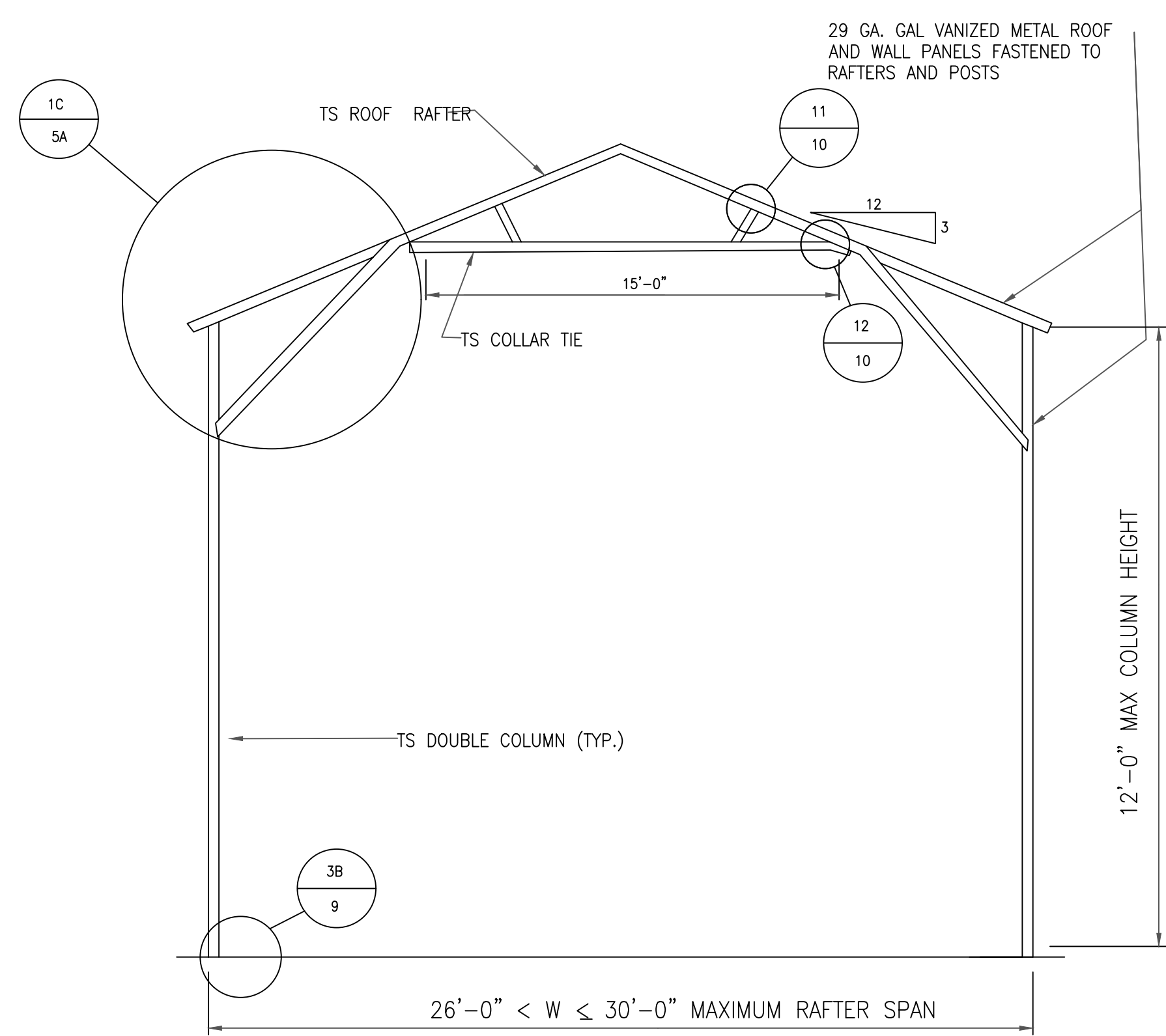
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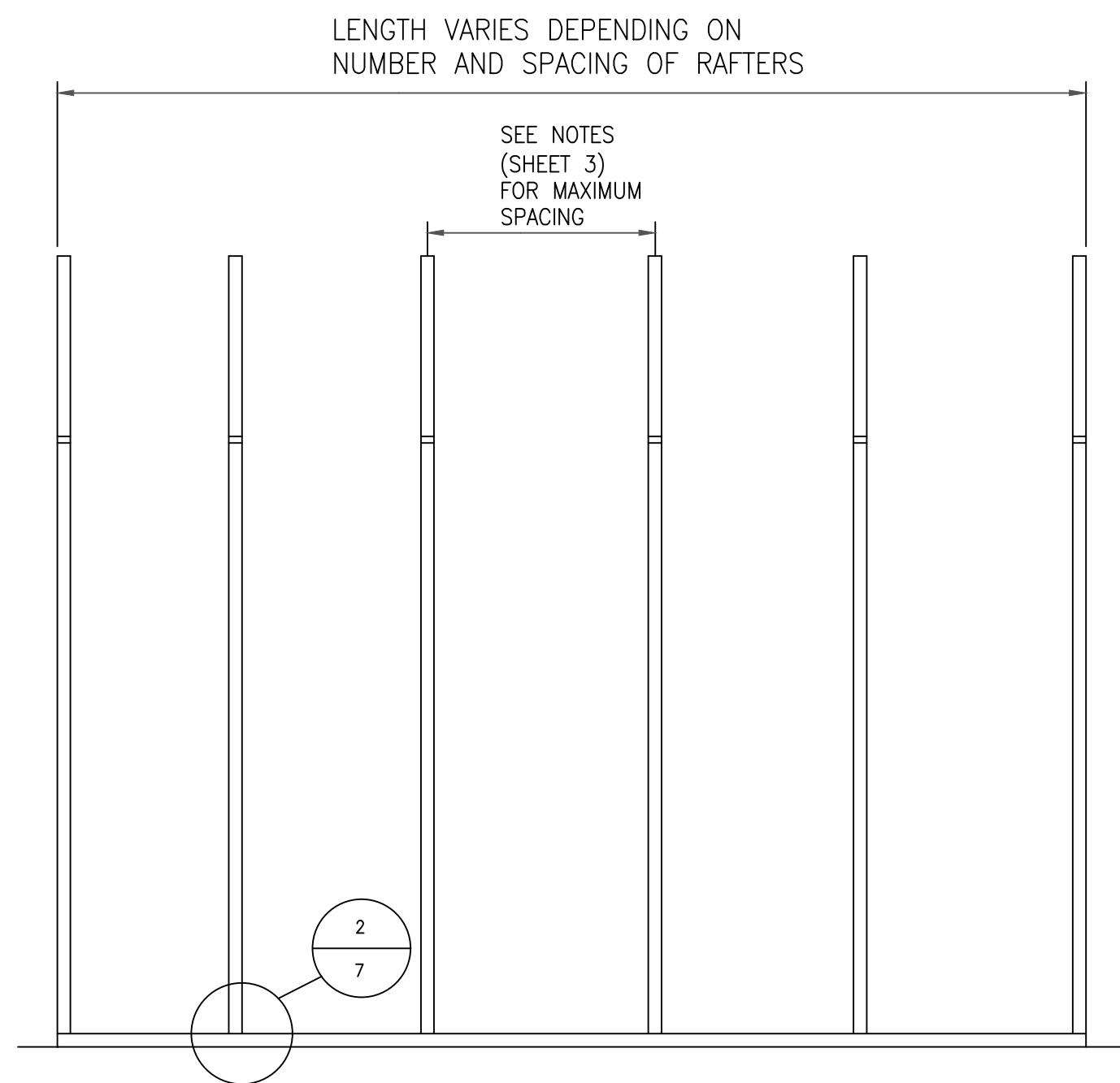
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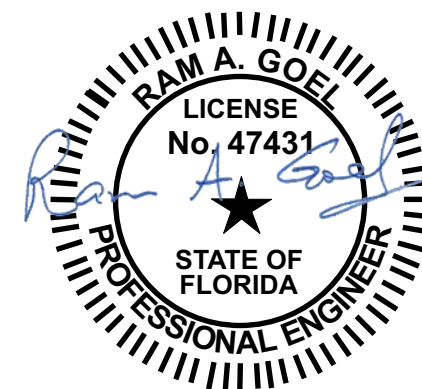
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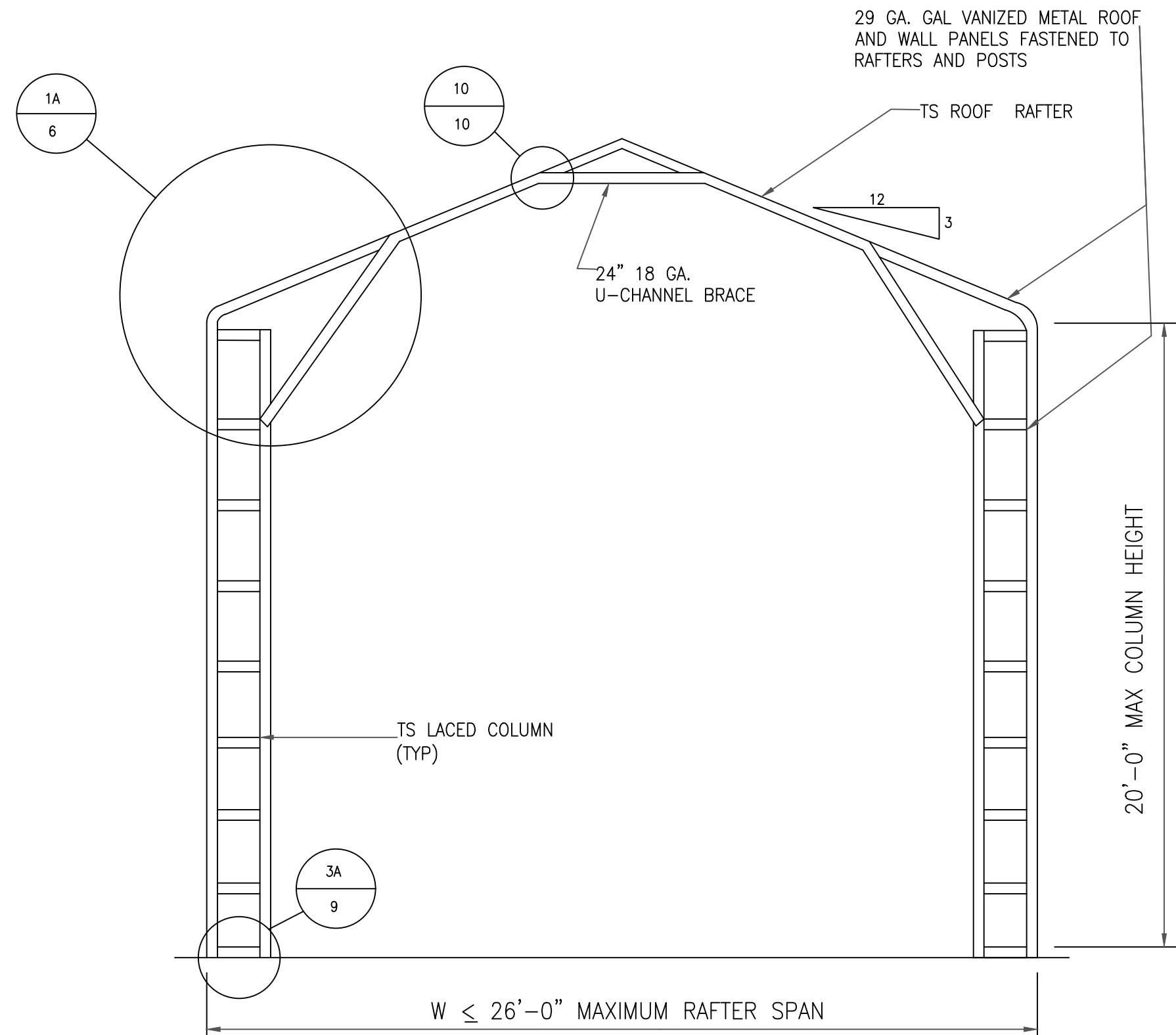
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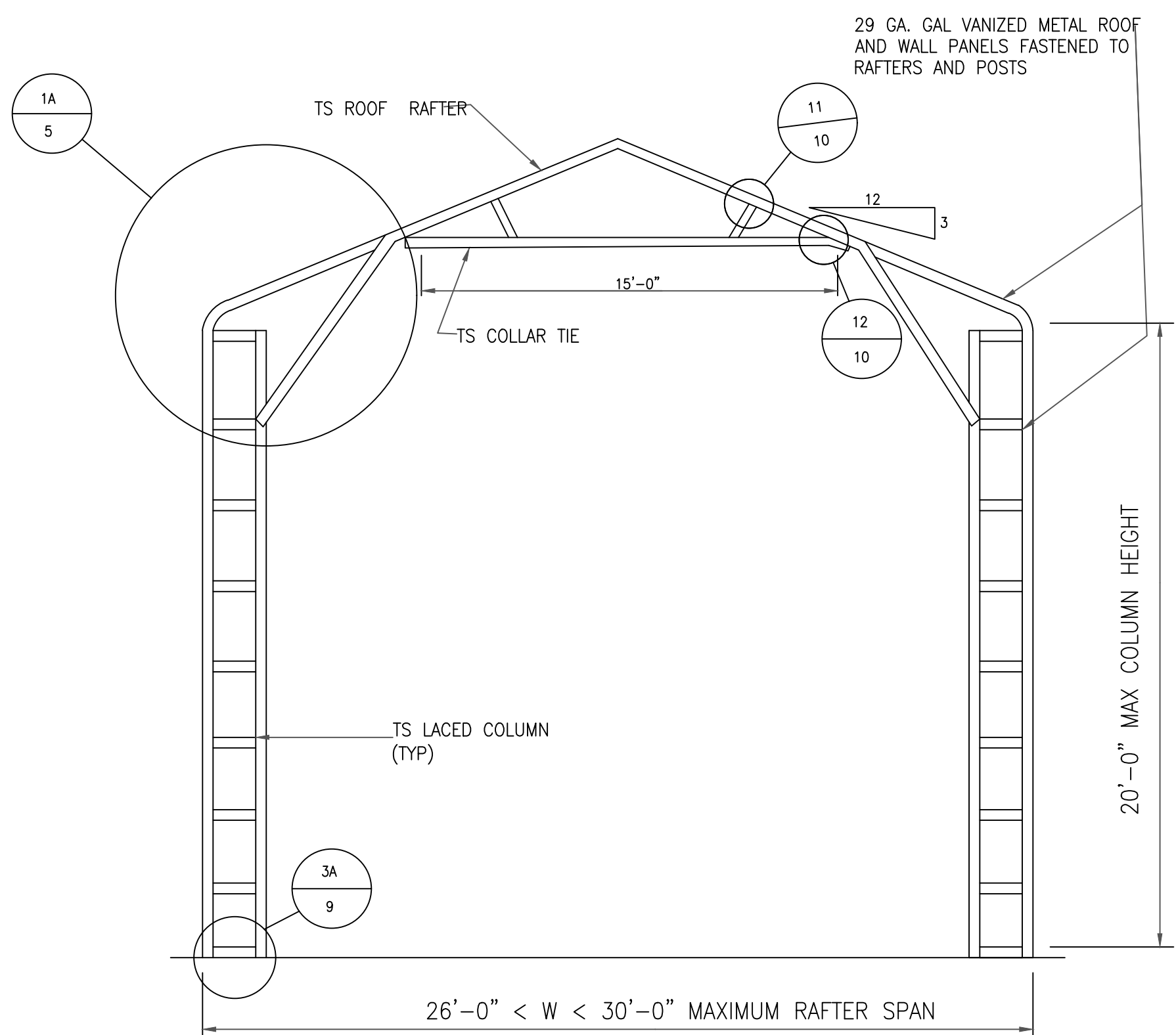
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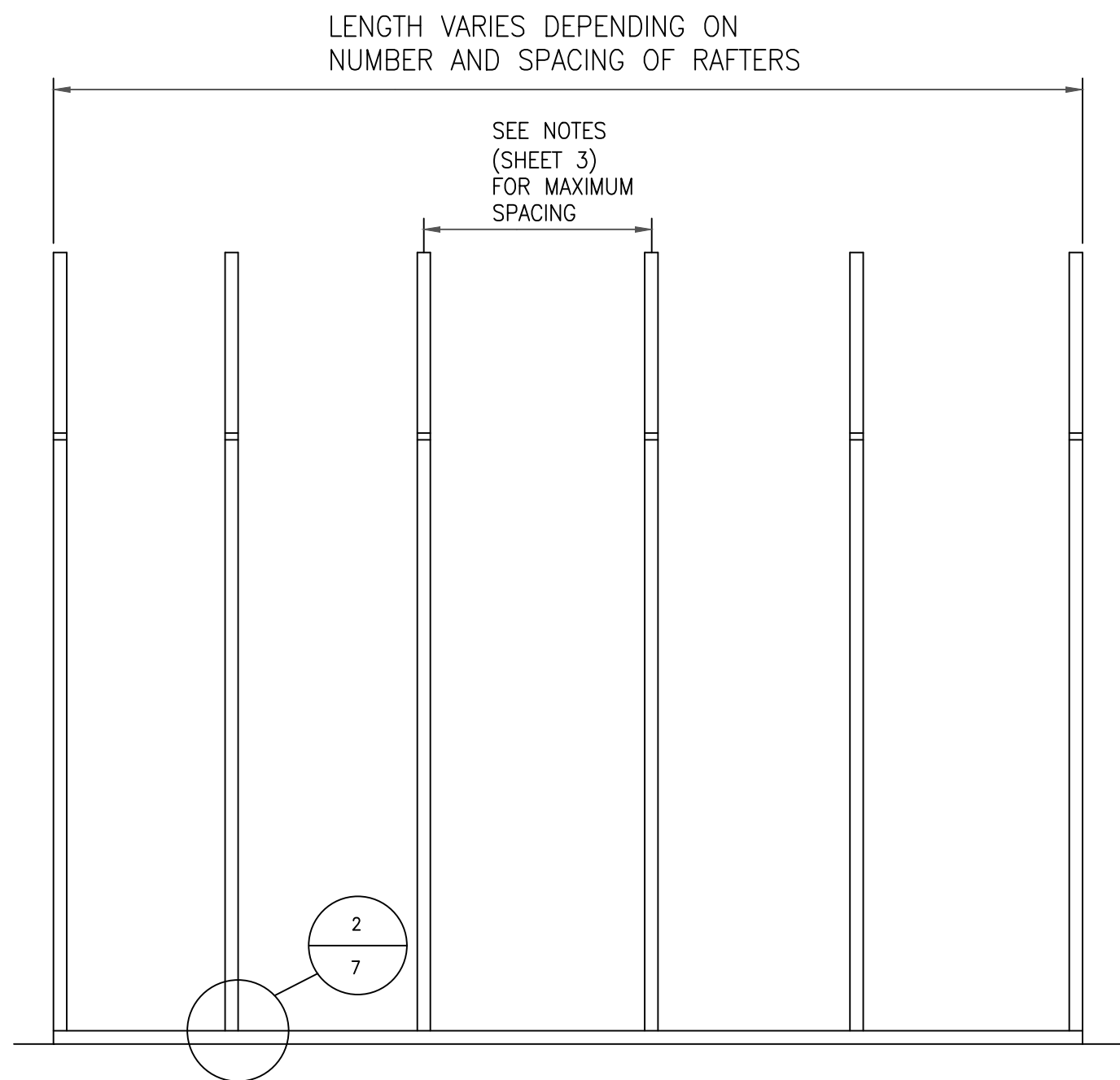
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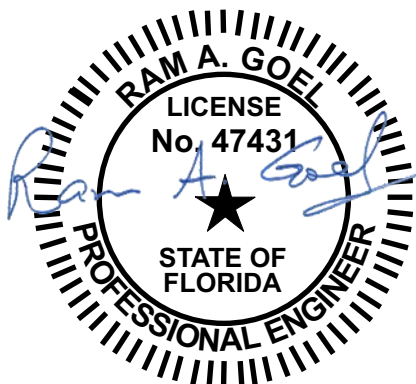
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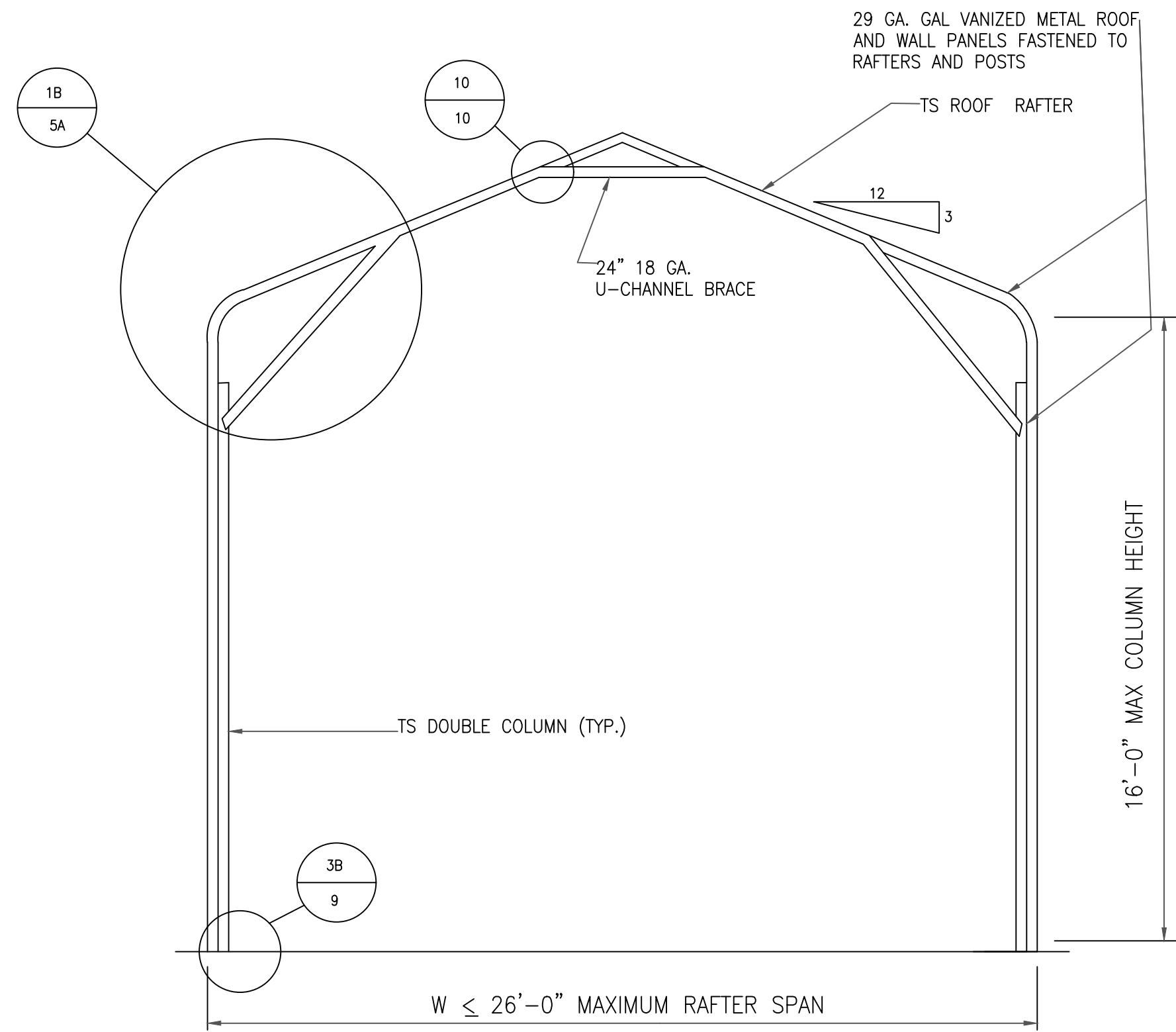
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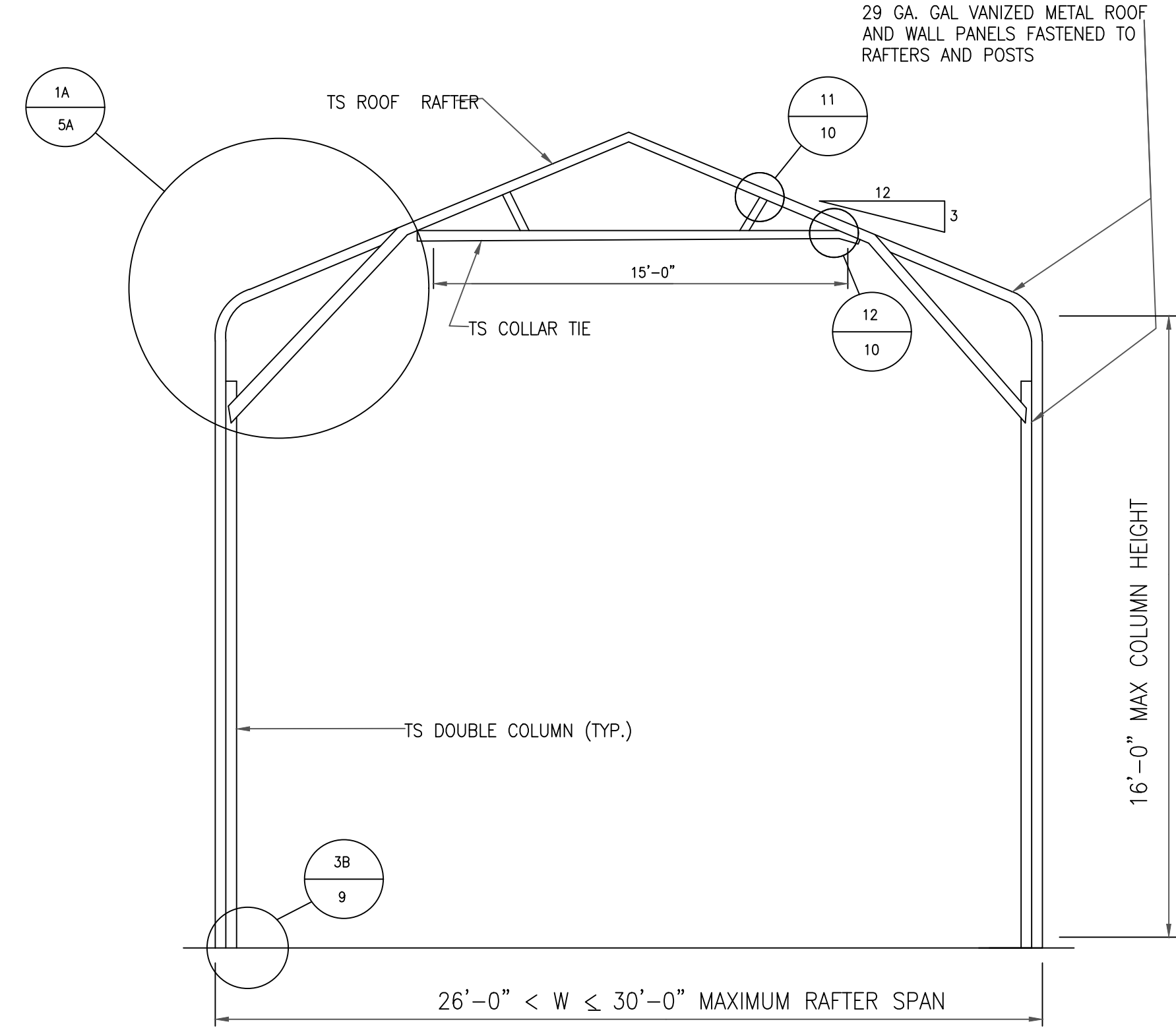
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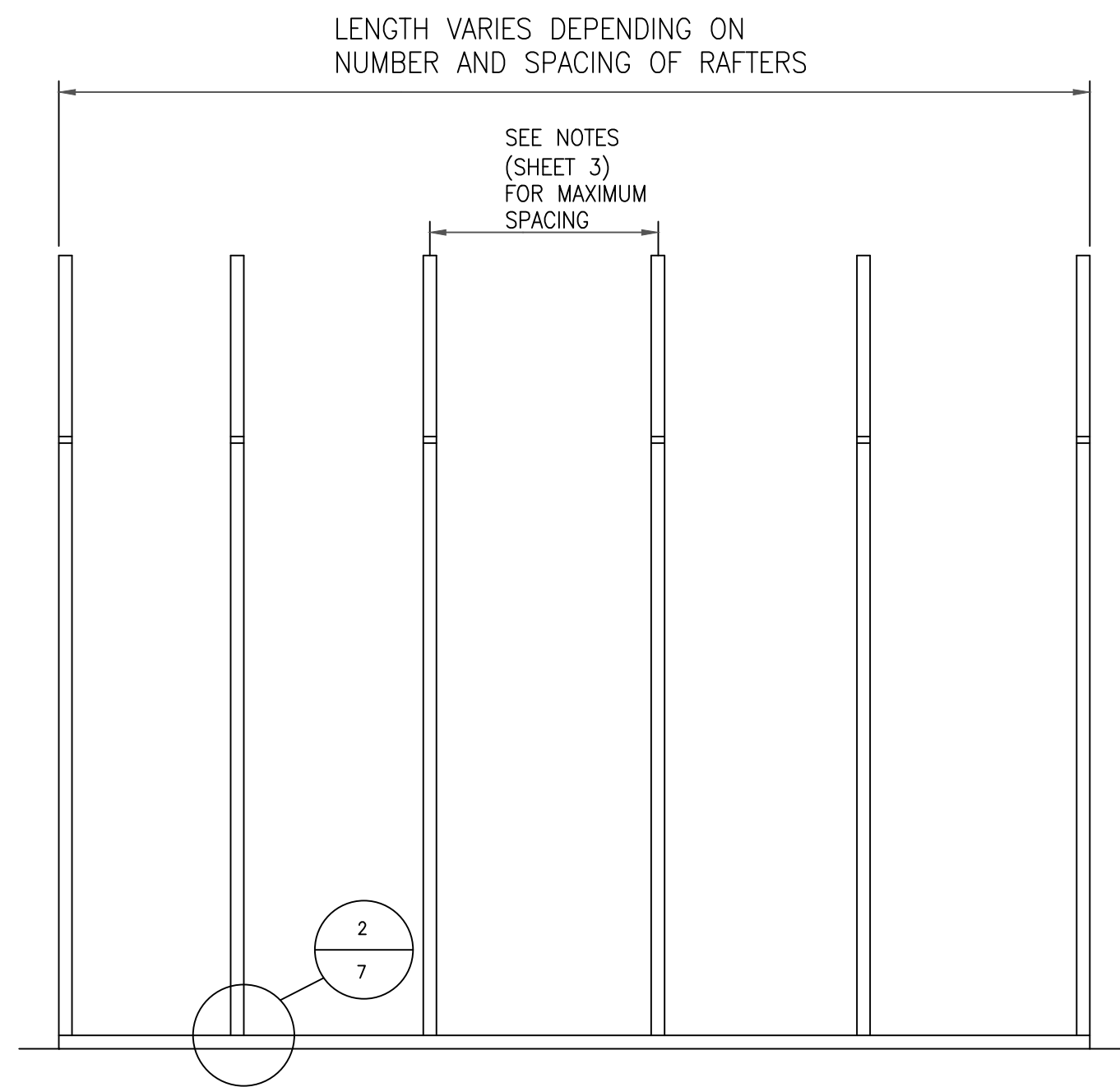
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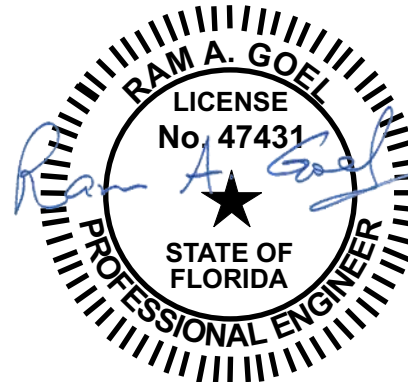


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DN: cn=Ram Goel, o=Soney FM LLC, ou=Soney FM LLC, email=E-soneyfmllc@yahoo.com, c=US
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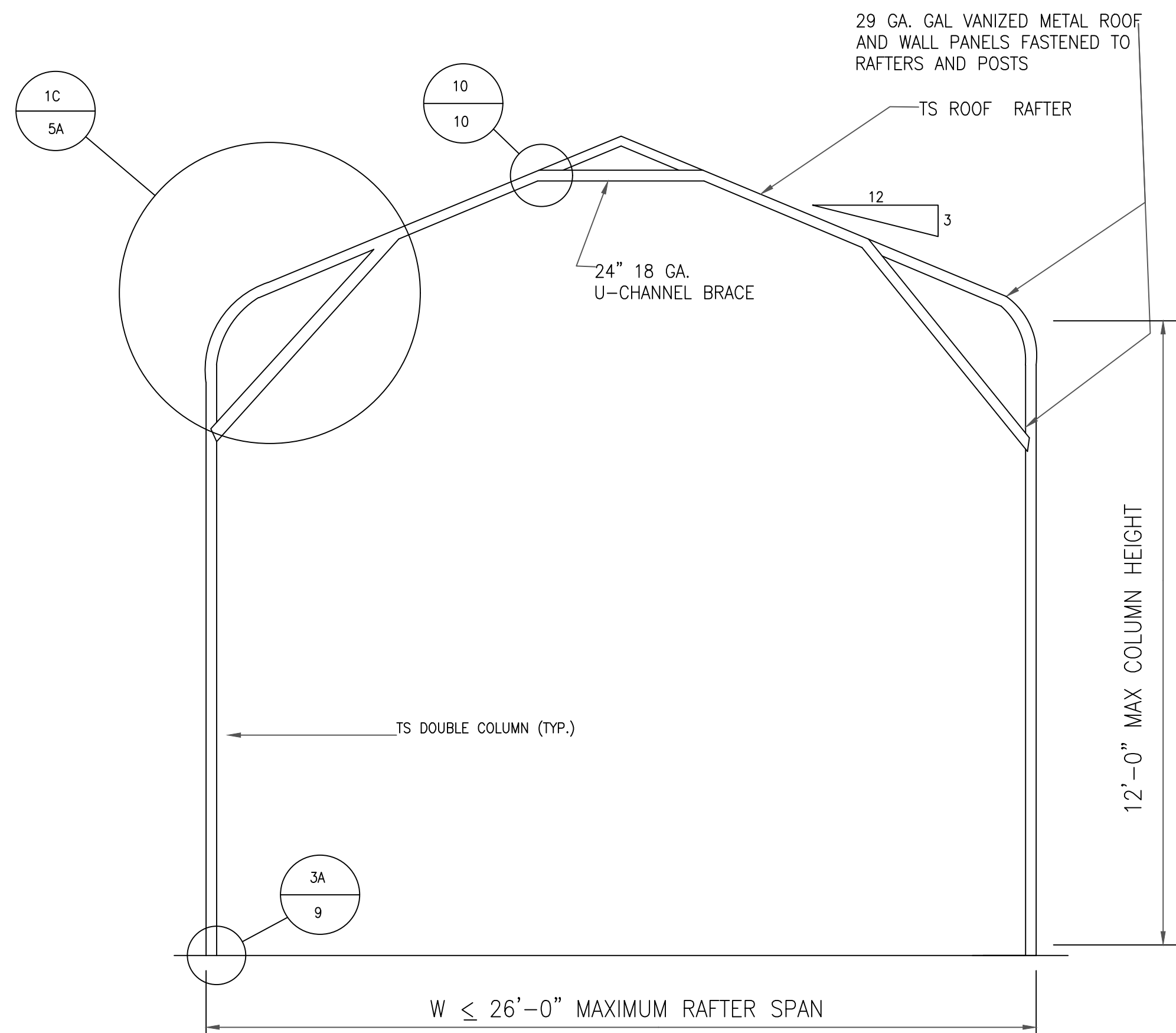
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Checked By: S.G.

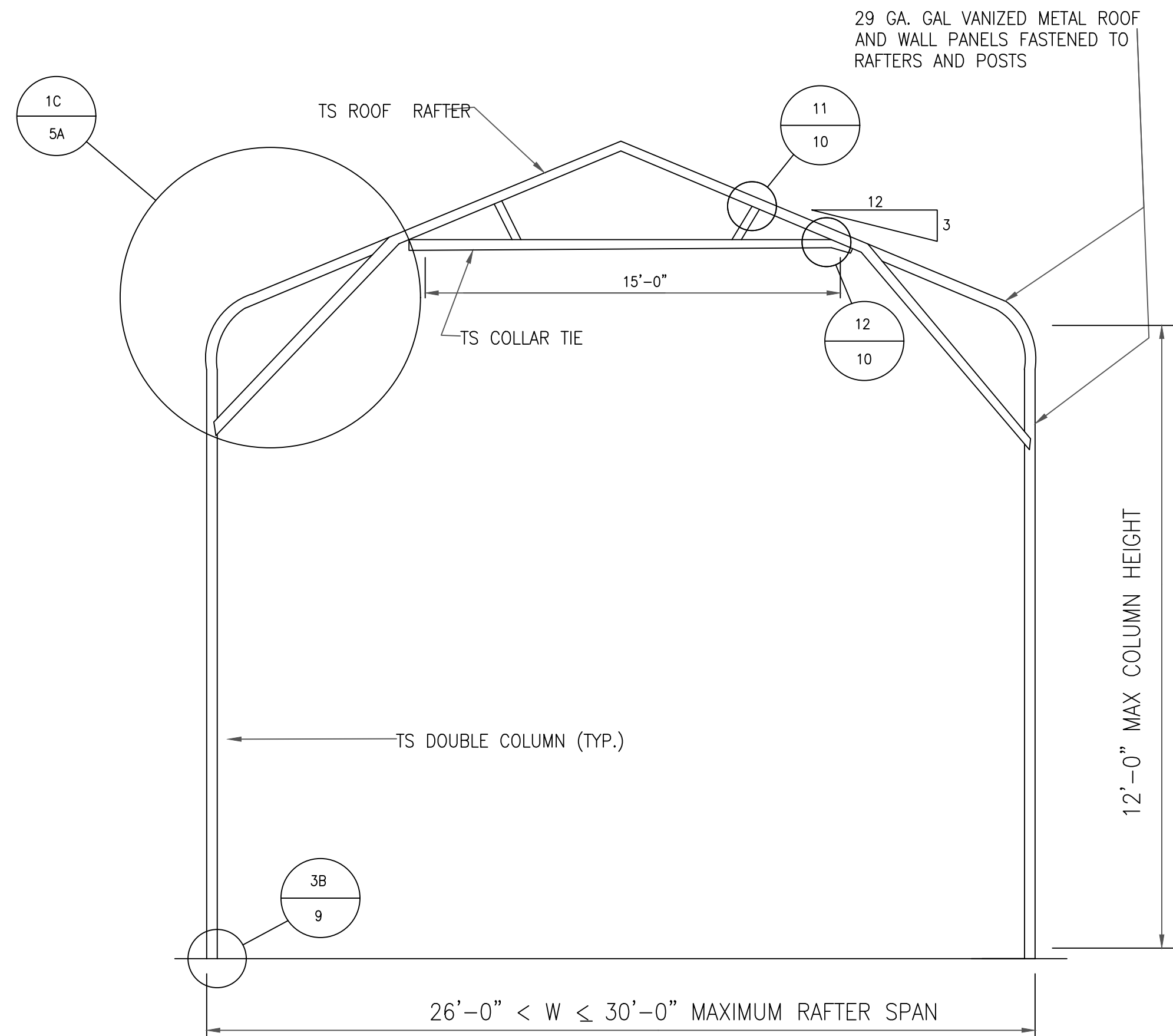
Issue Date: 04-10-21		
Revisions:		
No.	Date	Description
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BOX EAVE FRAME RAFTER STRUCTURE

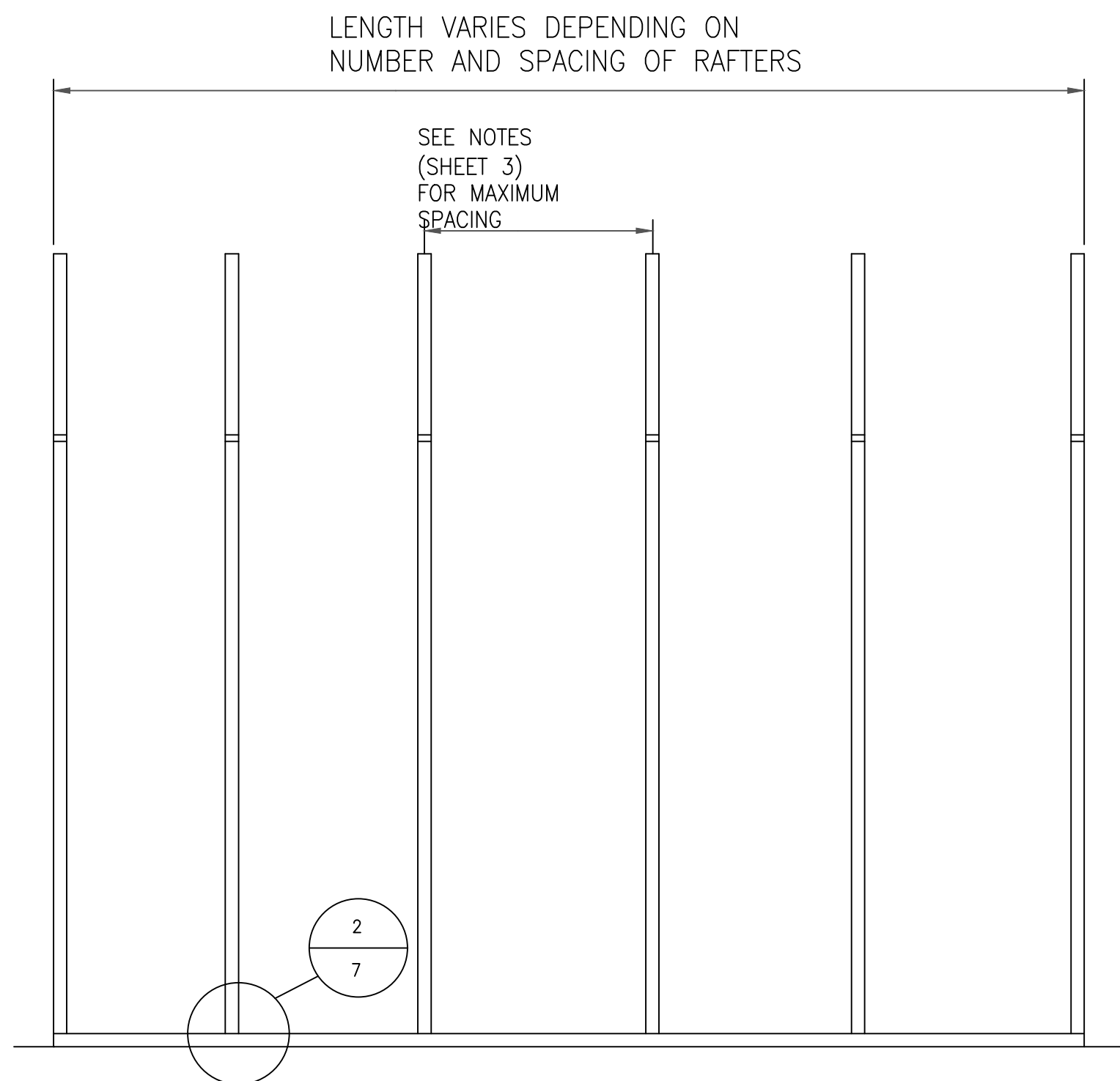
ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060



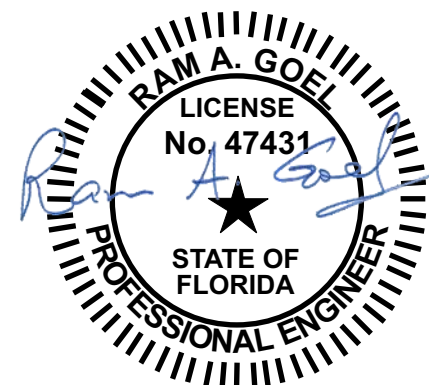
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: N.T.S.



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



TYPICAL RAFTER/COLUMN FRAME SECTION
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BOX EAVE FRAME RAFTER STRUCTURE

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LIVE OAK, FL 32060

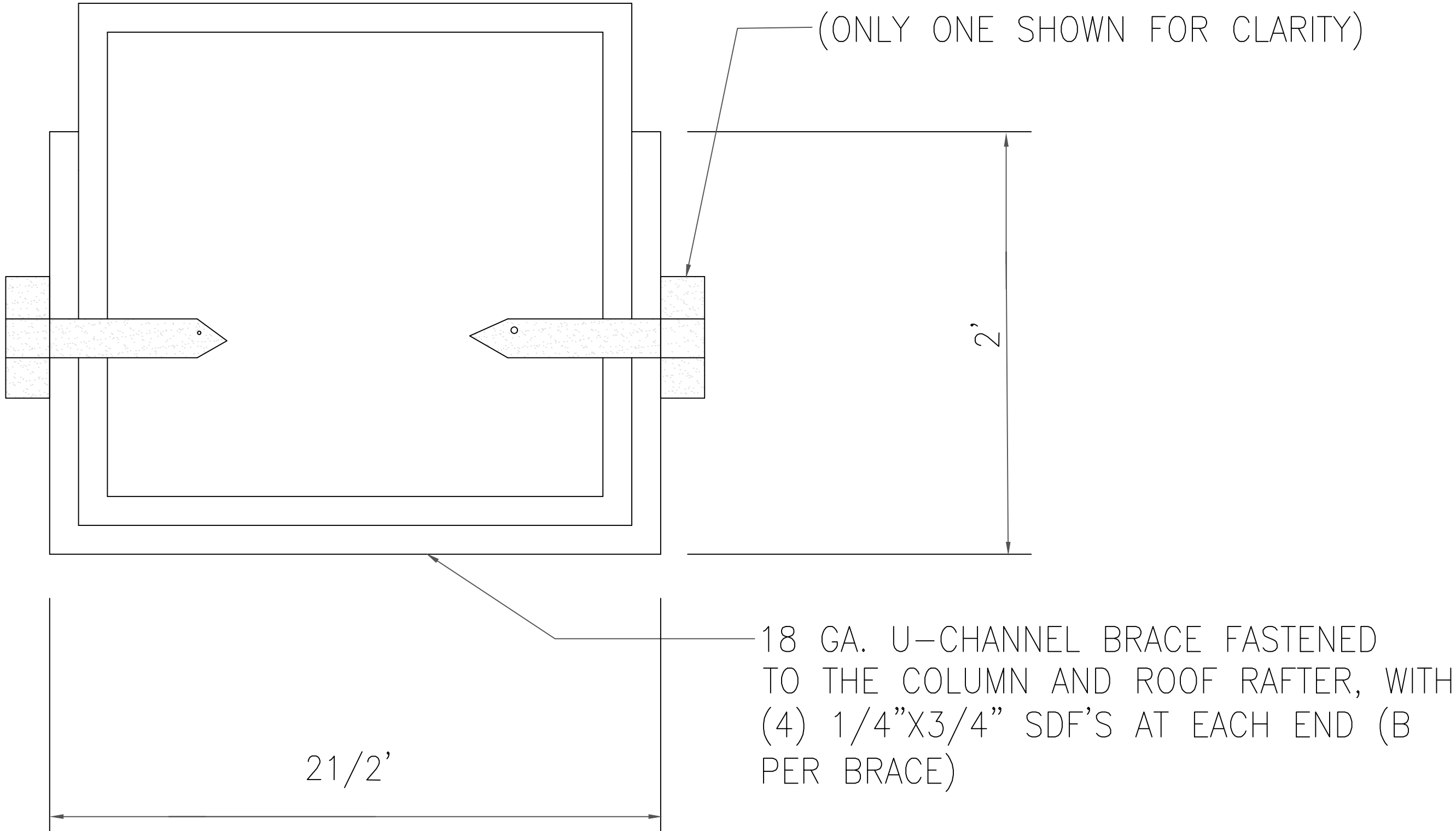
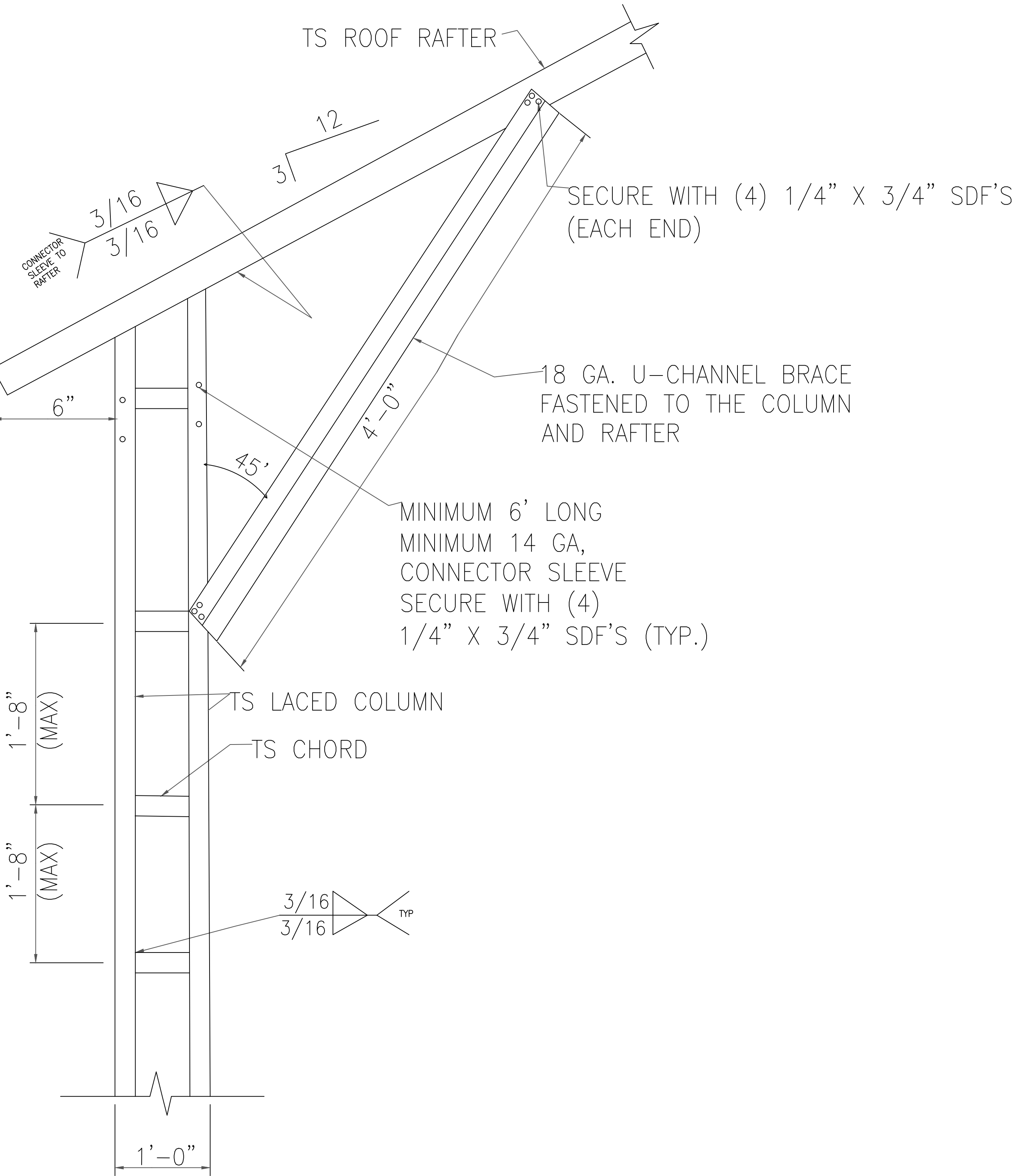
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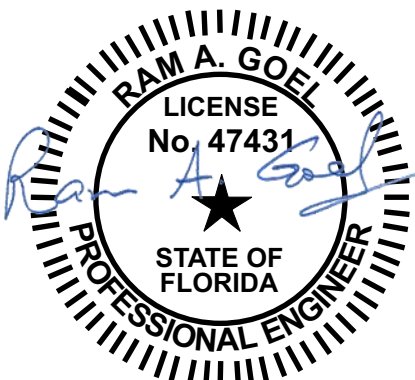


BRACE SECTION
SCALE: N.T.S.

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

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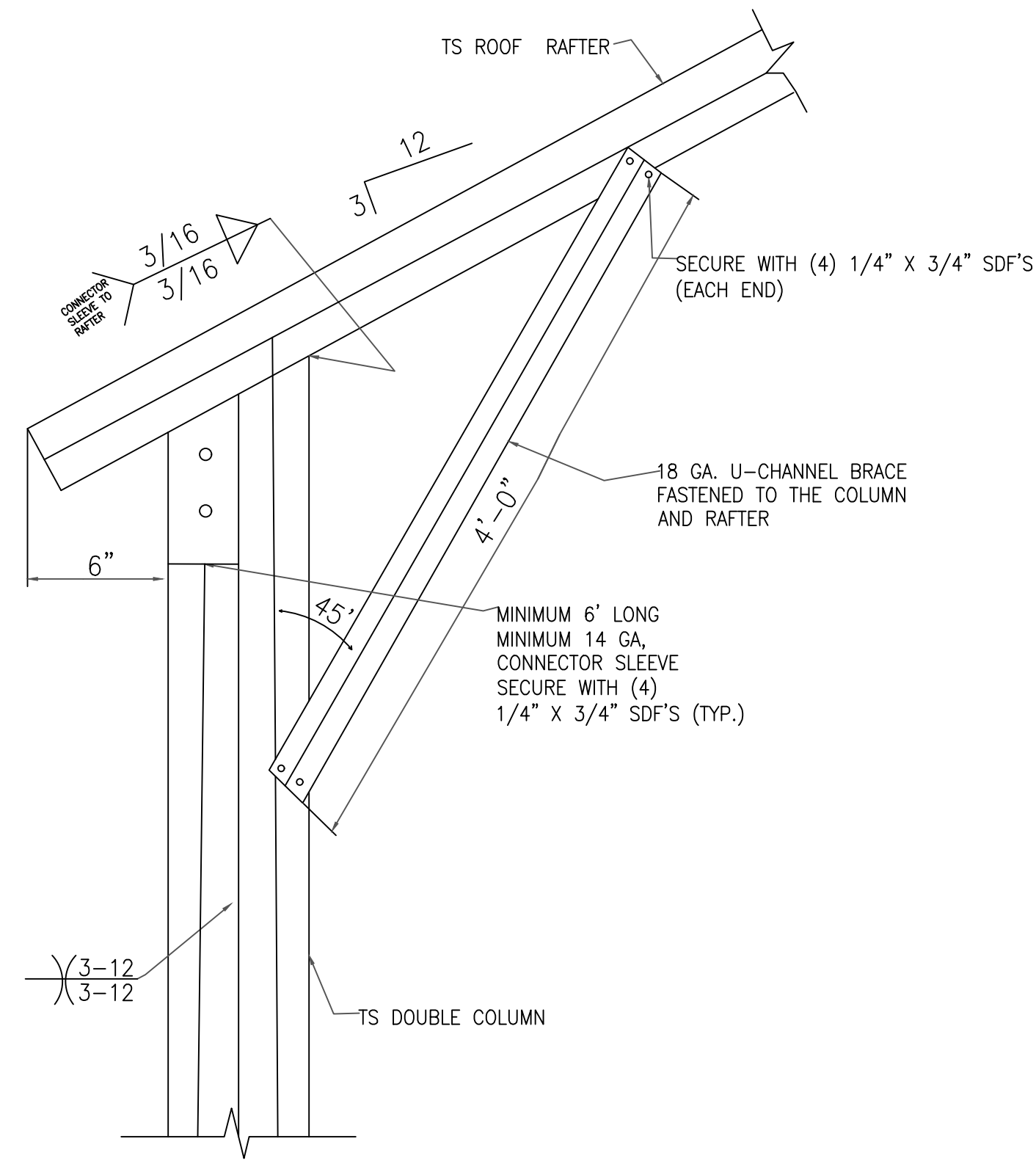
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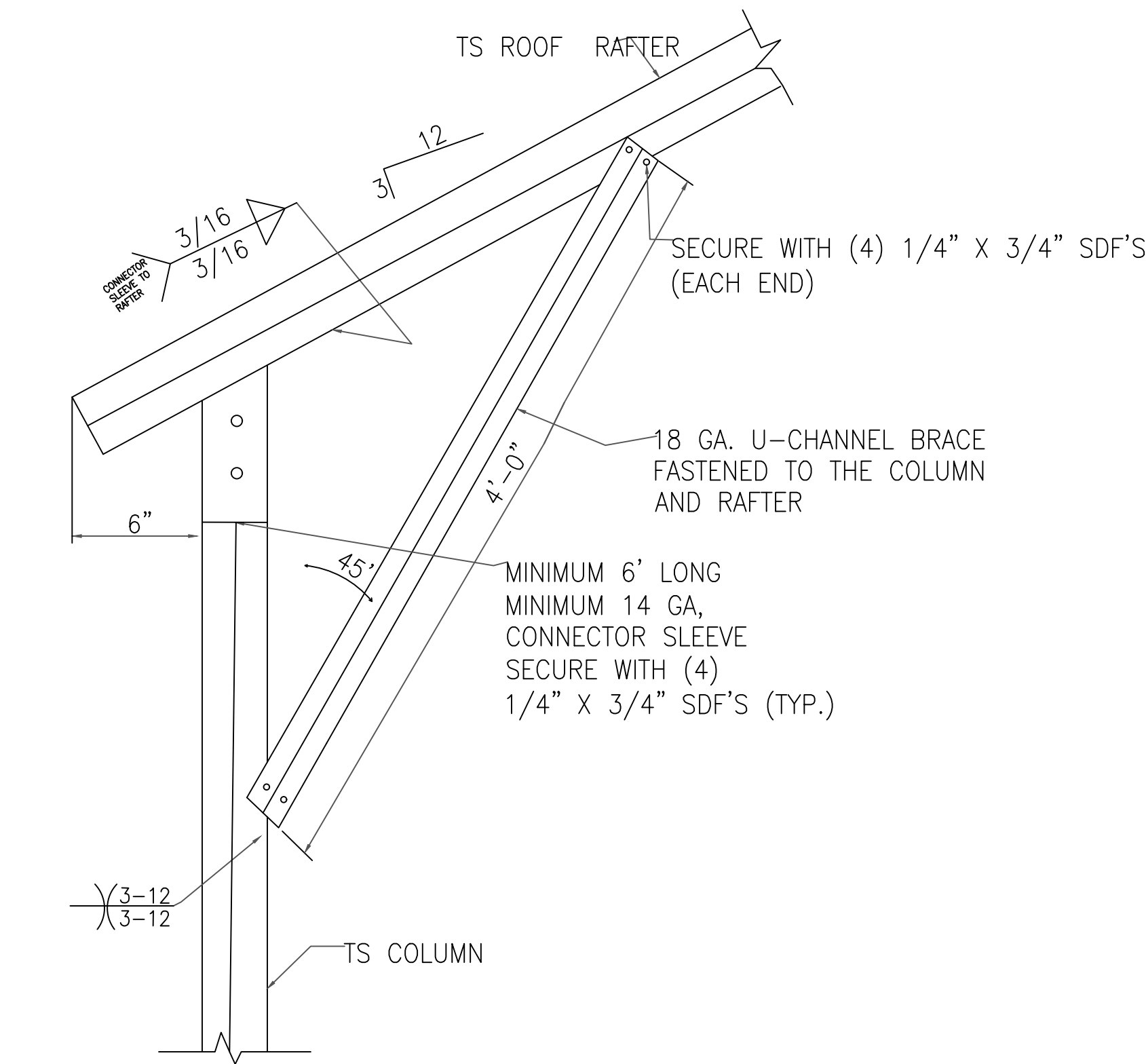
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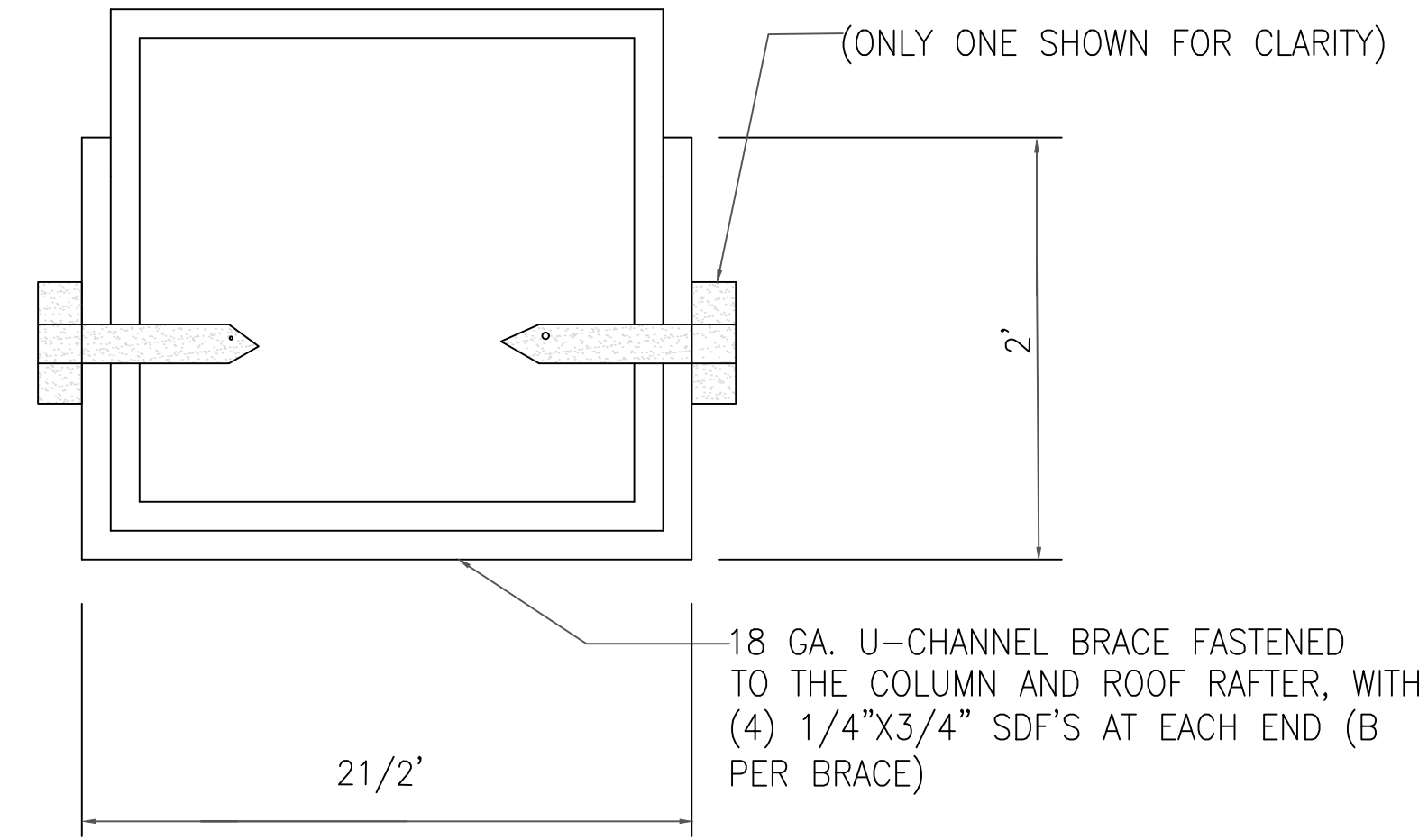
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BOX EAVE RAFTER/CORNER POST
CONNECTION DETAIL
FOR HEIGHTS 12'-0" < TO ≤ 16'-0"
SCALE: NTS



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



BRACE SECTION
SCALE: N.T.S.

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

Issue Date: 04-10-21

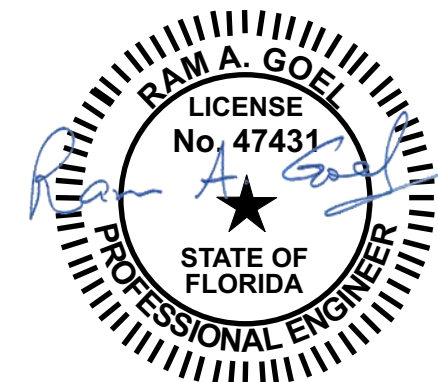
Revisions:

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BOX EAVE FRAME RAFTER STRUCTURE

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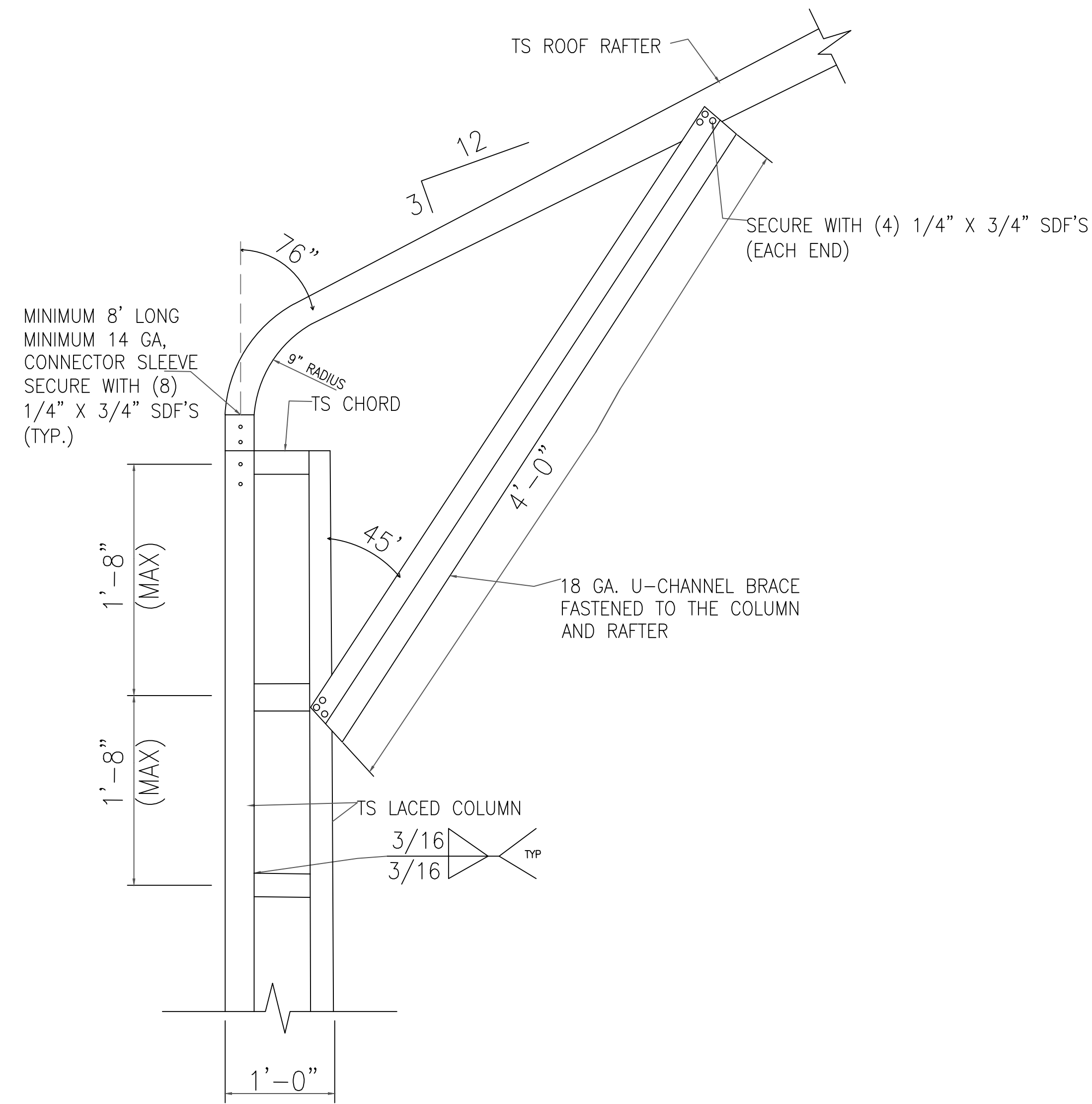
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ou=SONEY FM LLC,
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c=US
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11:16:52 -0400



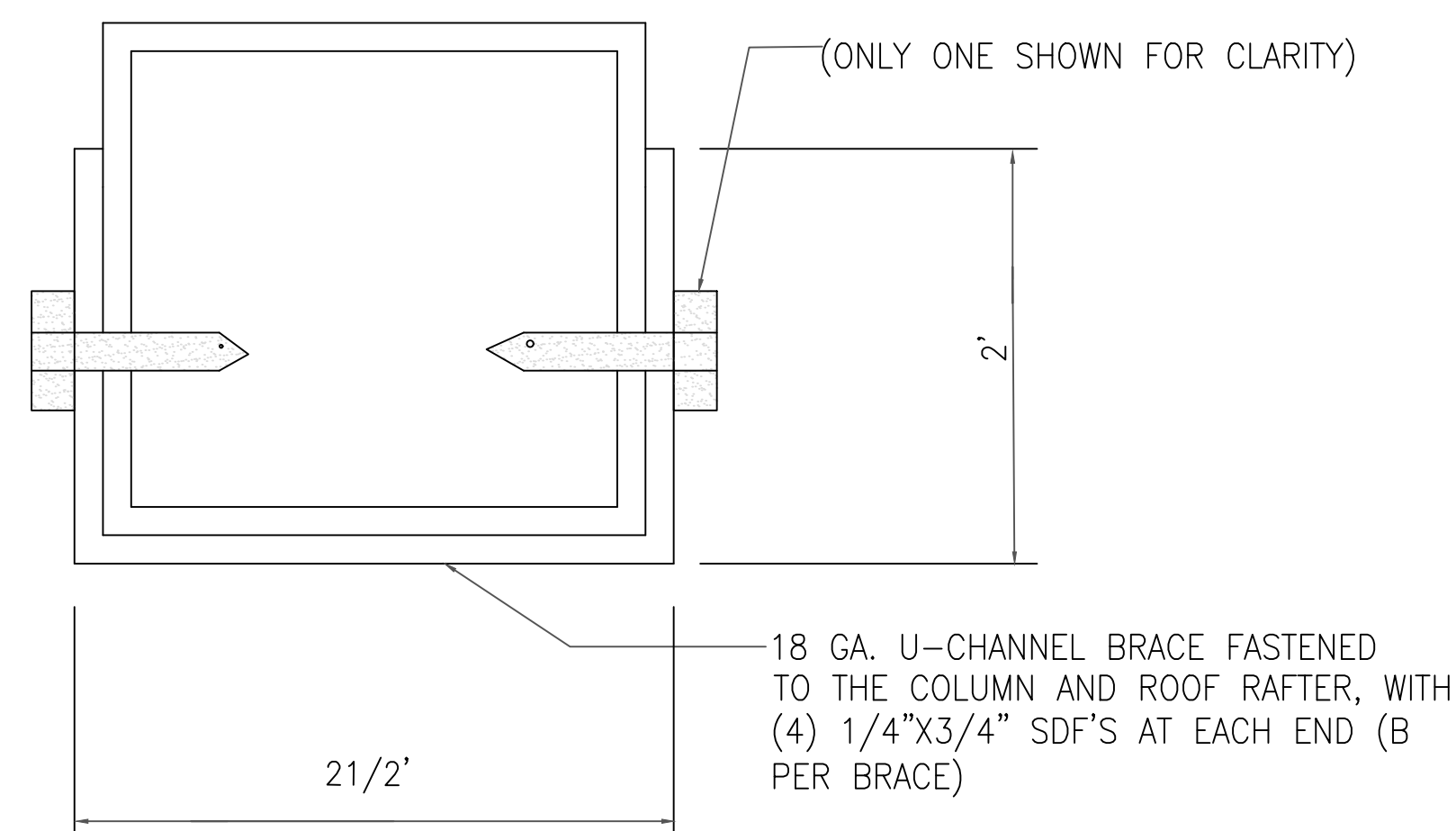
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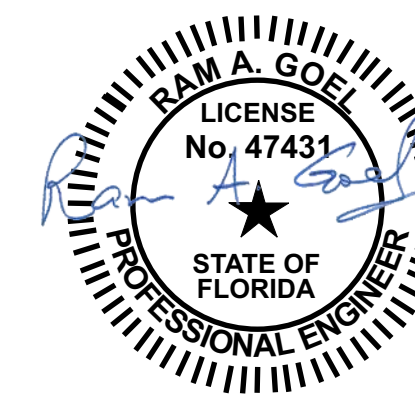
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1A BOX EAVE RAFTER/CORNER POST
CONNECTION DETAIL
FOR HEIGHTS 16'-0" < TO ≤ 20'-0"
SCALE: NTS



BRACE SECTION
SCALE: N.T.S.



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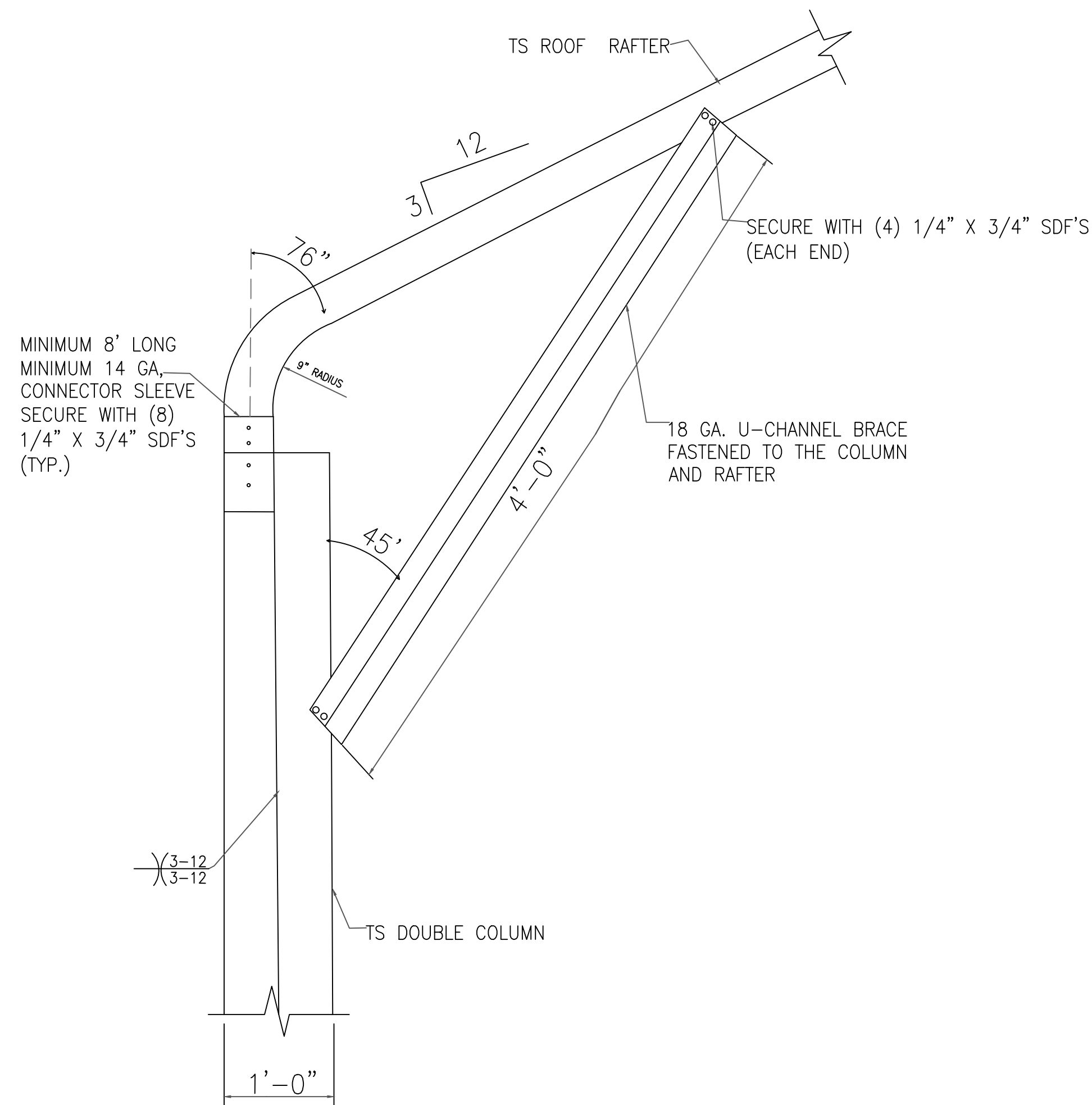
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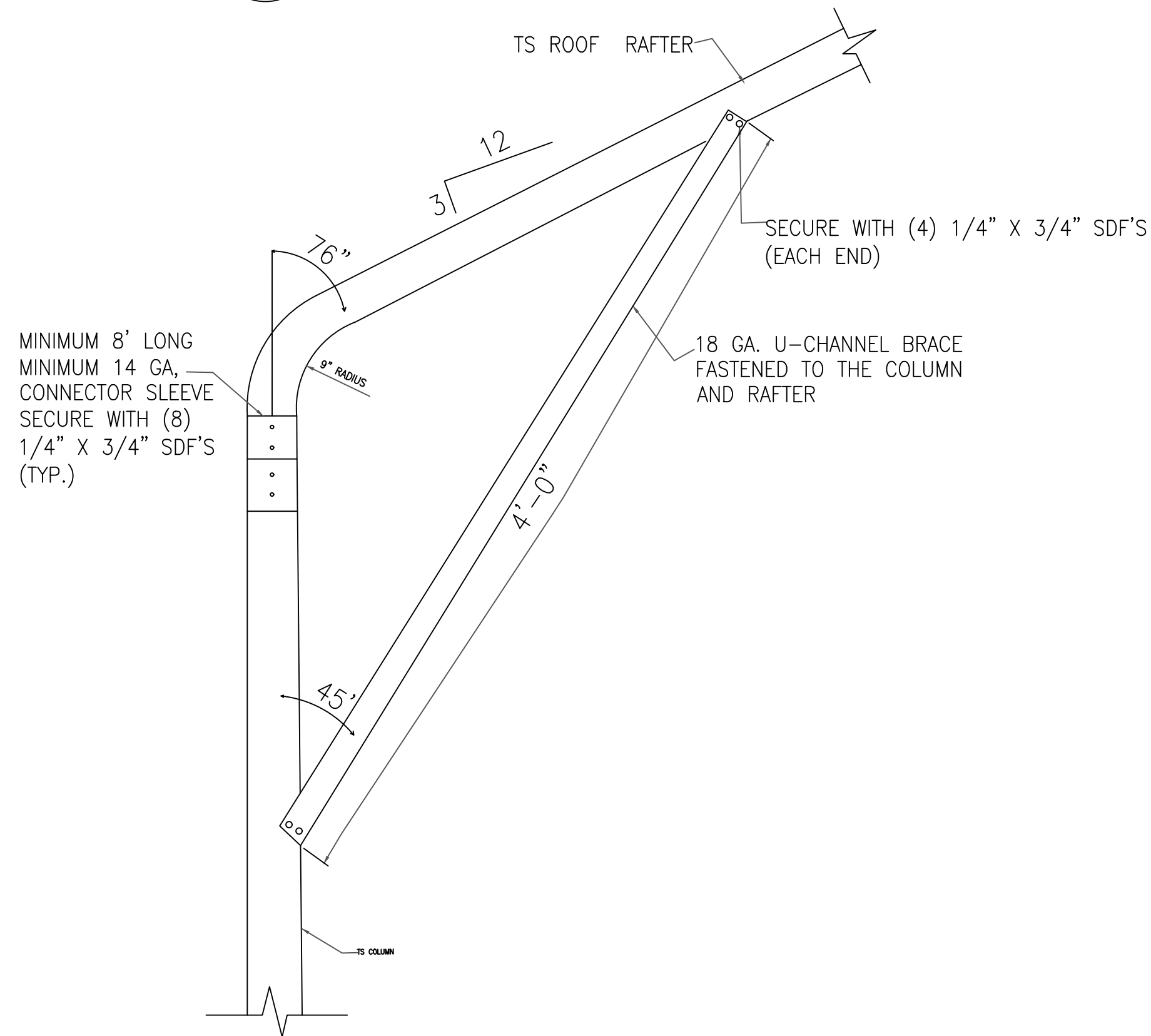
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BOX EAVE FRAME RAFTER STRUCTURE

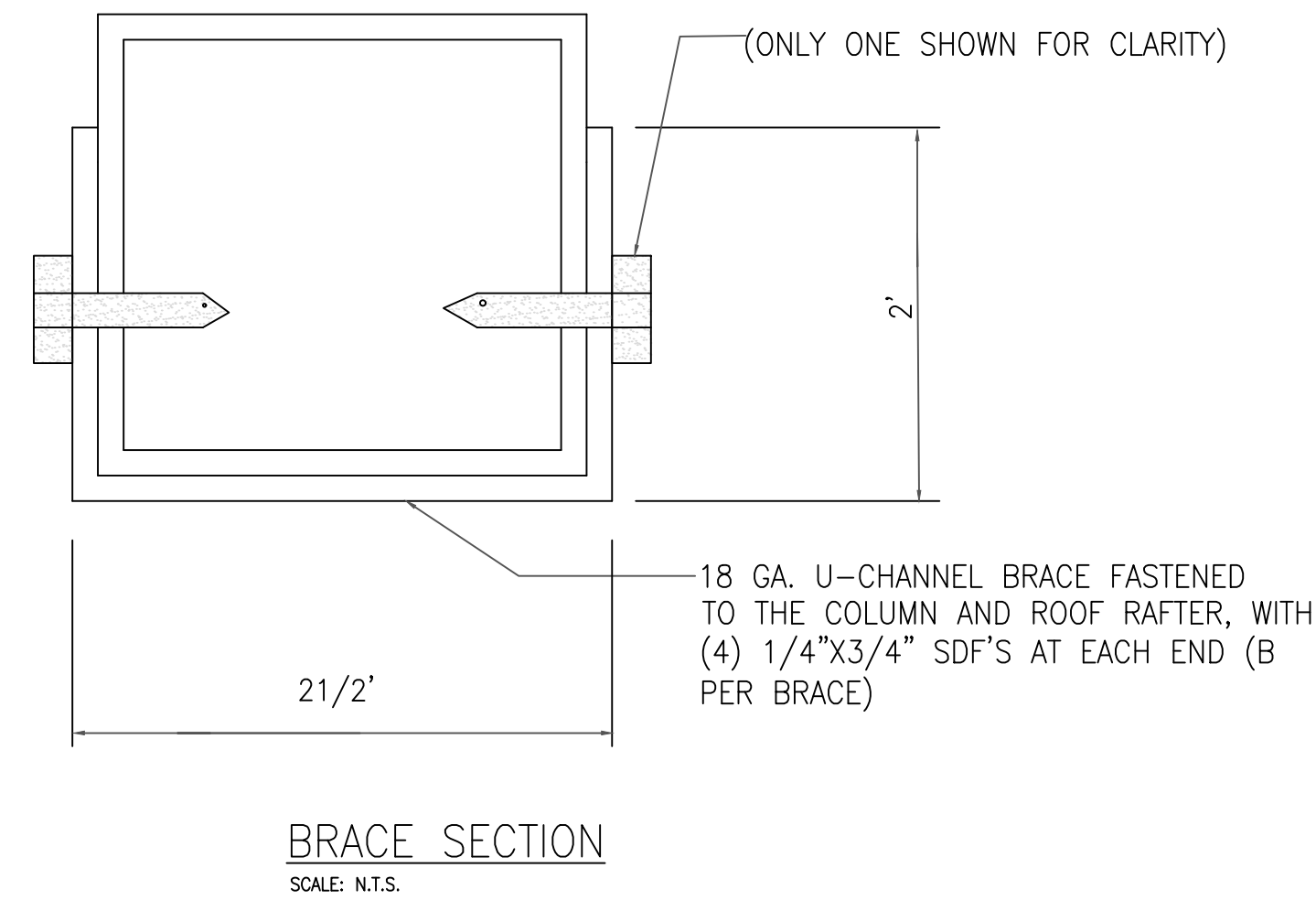
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LIVE OAK, FL 32060



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

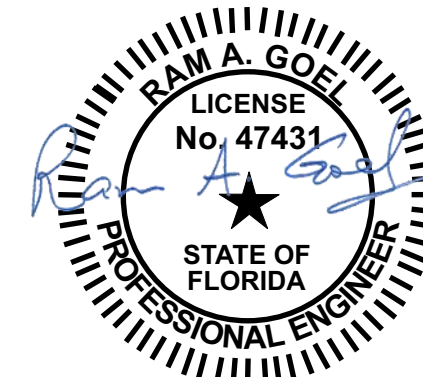


1C BOX EAVE RAFTER/CORNER POST
CONNECTION DETAIL
FOR HEIGHTS ≤ 12'-0"
SCALE: N.T.S.



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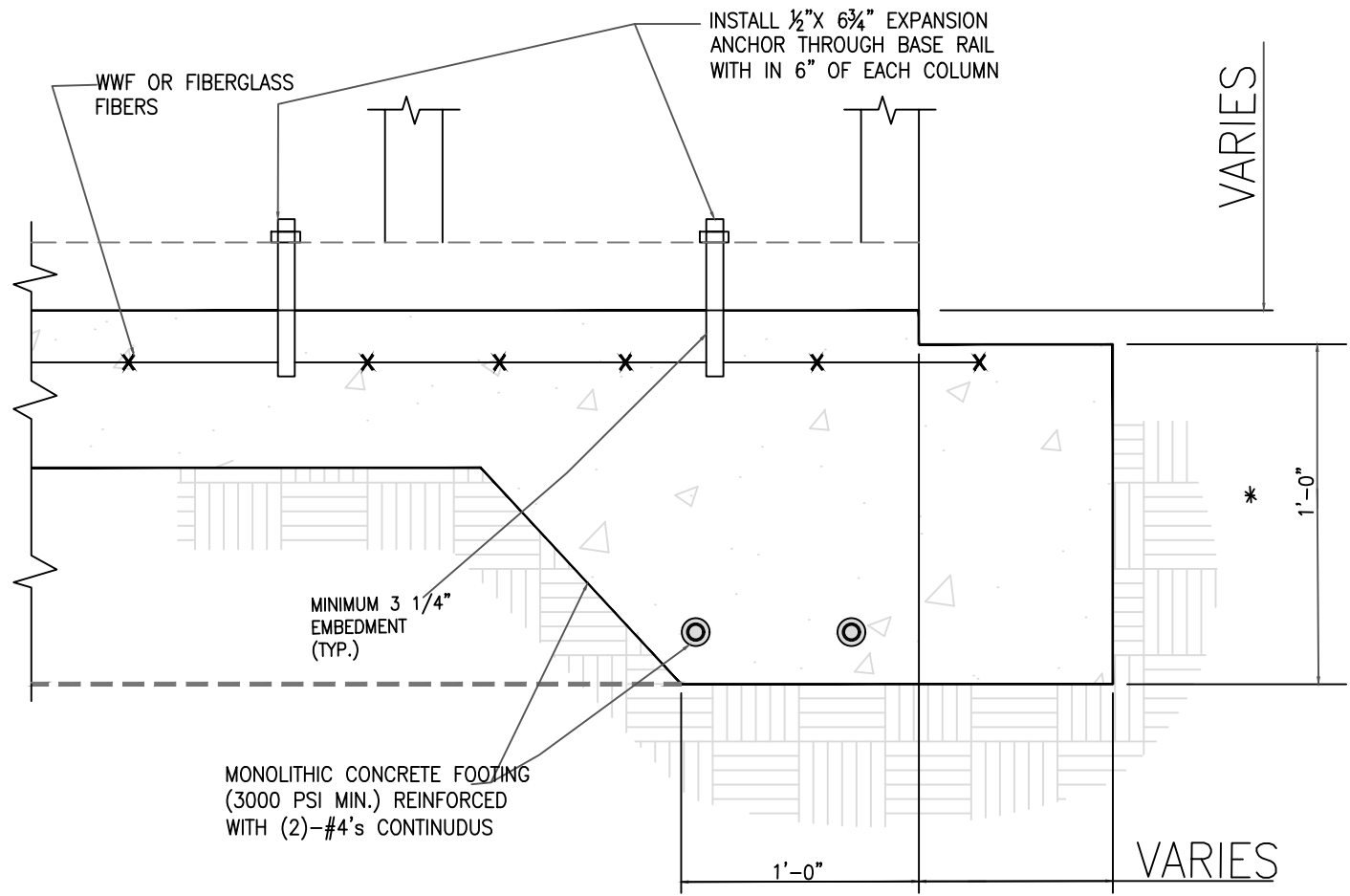
Job # S2080
Drawn By: K.D.
Checked By: S.G.

Issue Date: 04-10-21		
Revisions:		
No.	Date	Description
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2	11	
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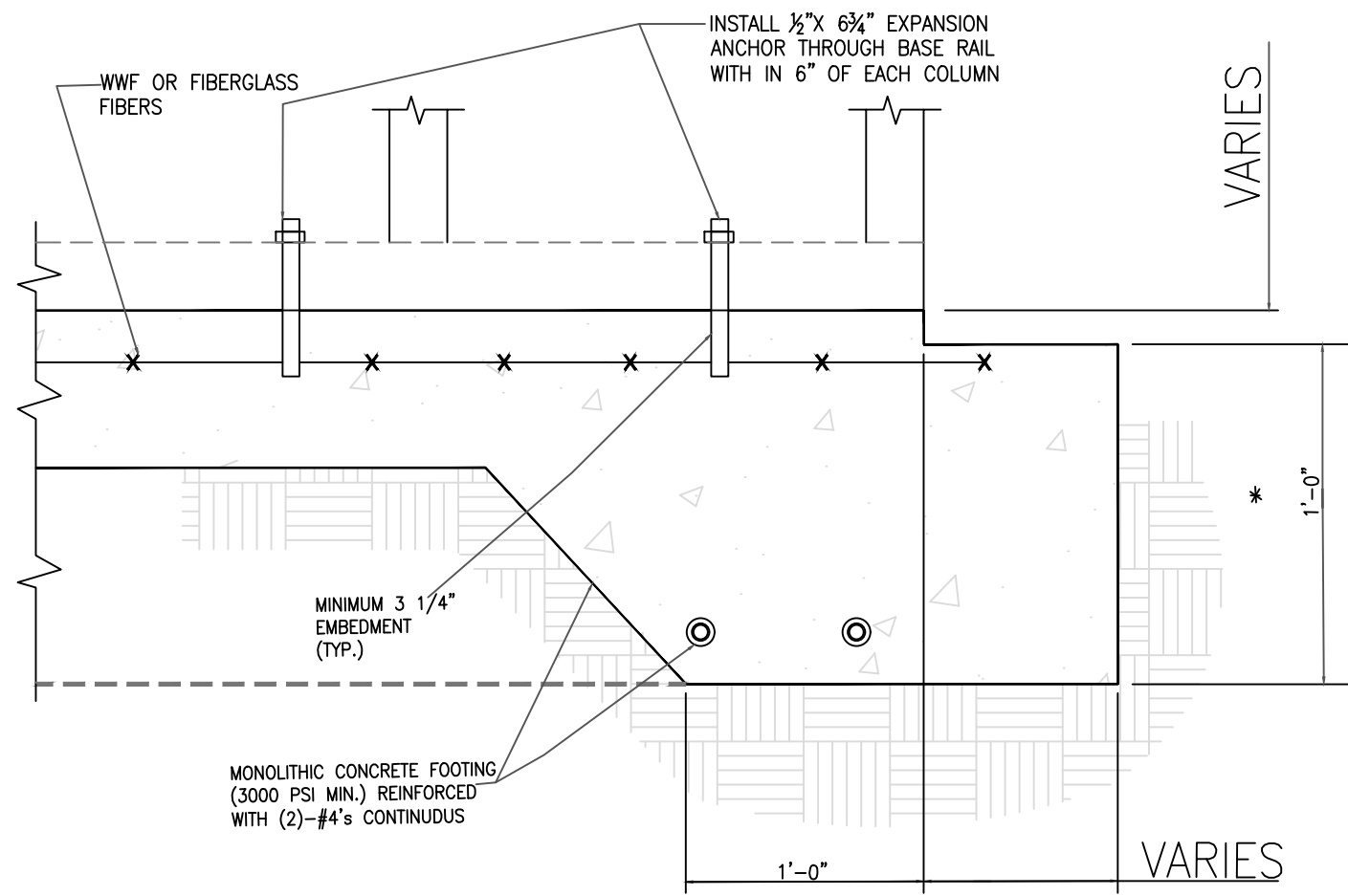
BOX EAVE FRAME RAFTER STRUCTURE

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LIVE OAK, FL 32060

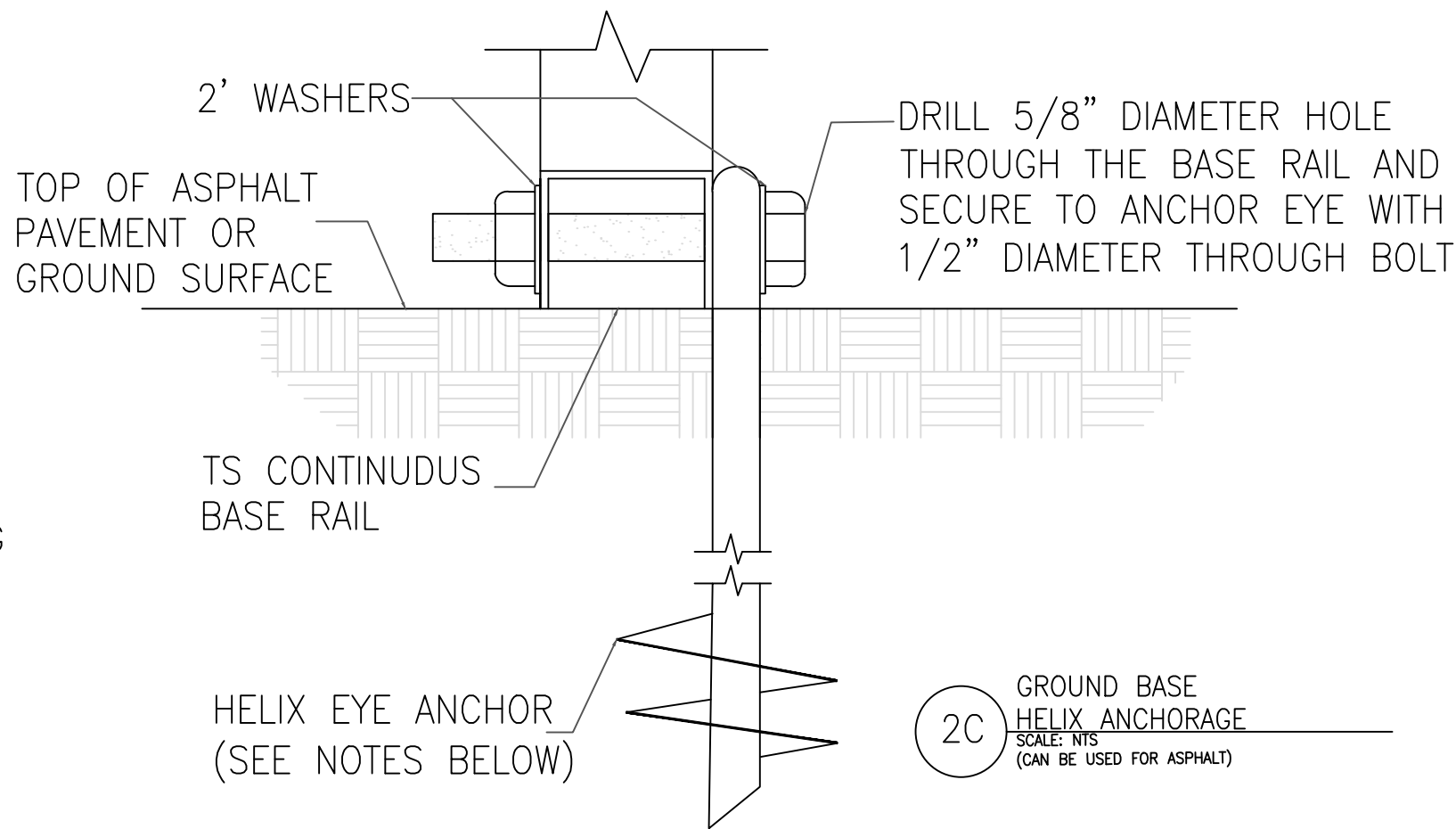
BASE RAIL ANCHORAGE OPTIONS



2A CONCRETE MONOLITHIC SLAB
BASE RAIL ANCHORAGE
SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".
• COORDINATE WITH LOCAL CODES/ORD.



2B CONCRETE SLAB BASE
RAIL ANCHORAGE
SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".
• COORDINATE WITH LOCAL CODES/ORD.



2C GROUND BASE
HELIX ANCHORAGE
SCALE: NTS
(CAN BE USED FOR ASPHALT)

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.

IMPORTANT



Richard G. Marceau, P.E. # 64466
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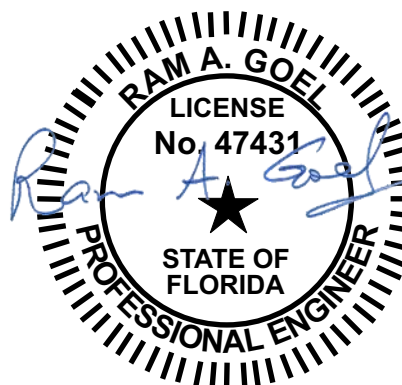
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No.	Date	Description
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BASE RAIL ANCHORAGE OPTIONS

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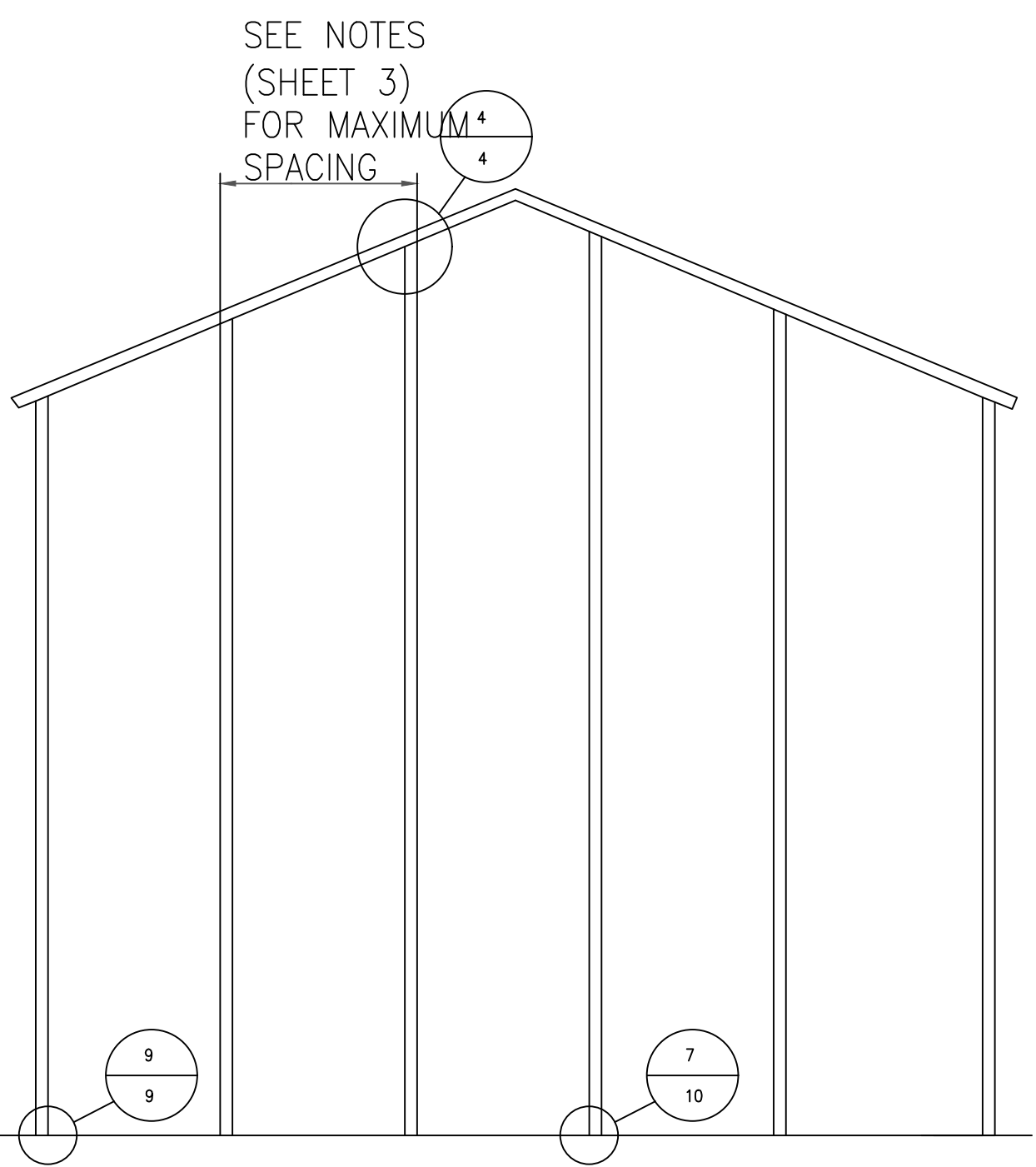


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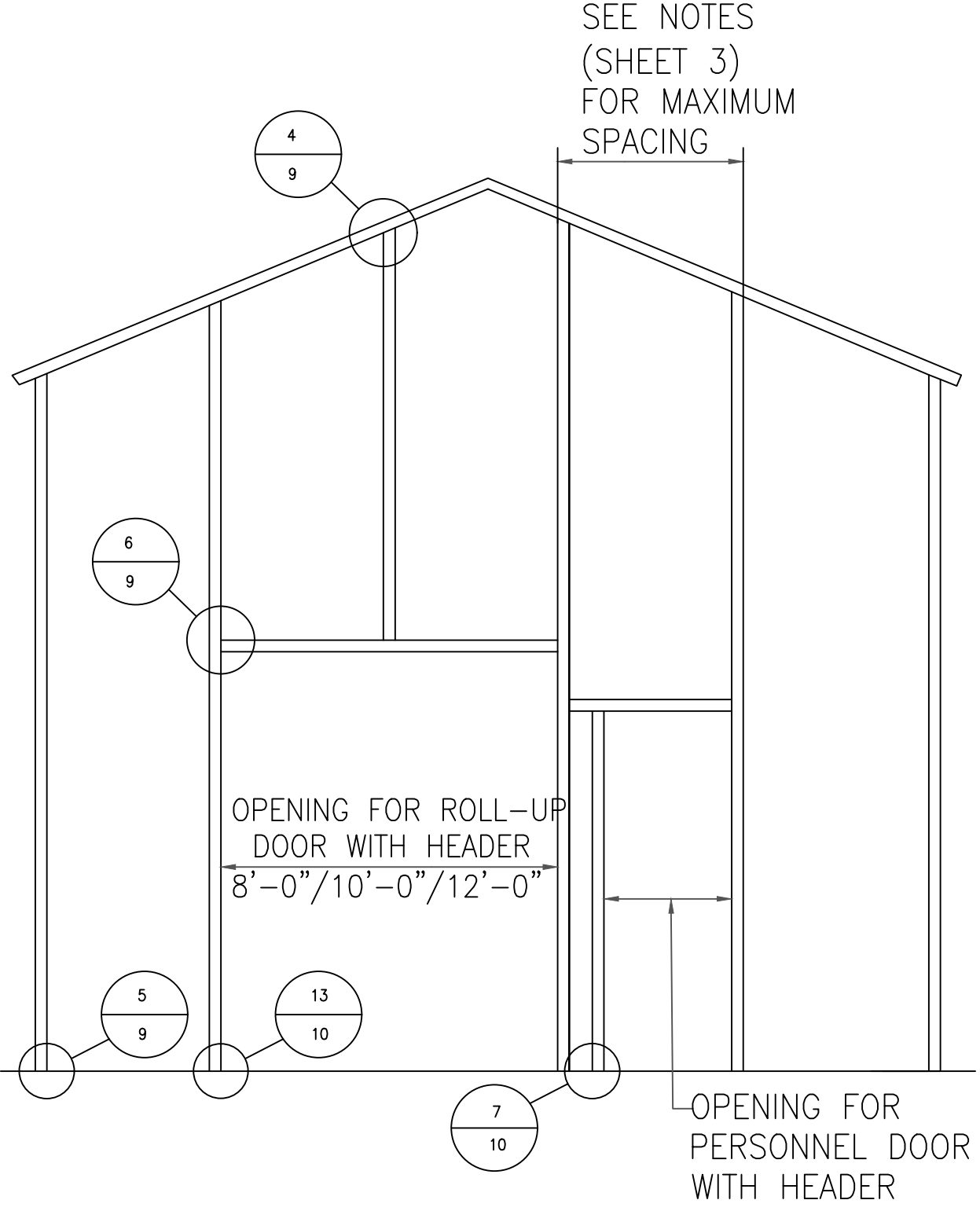
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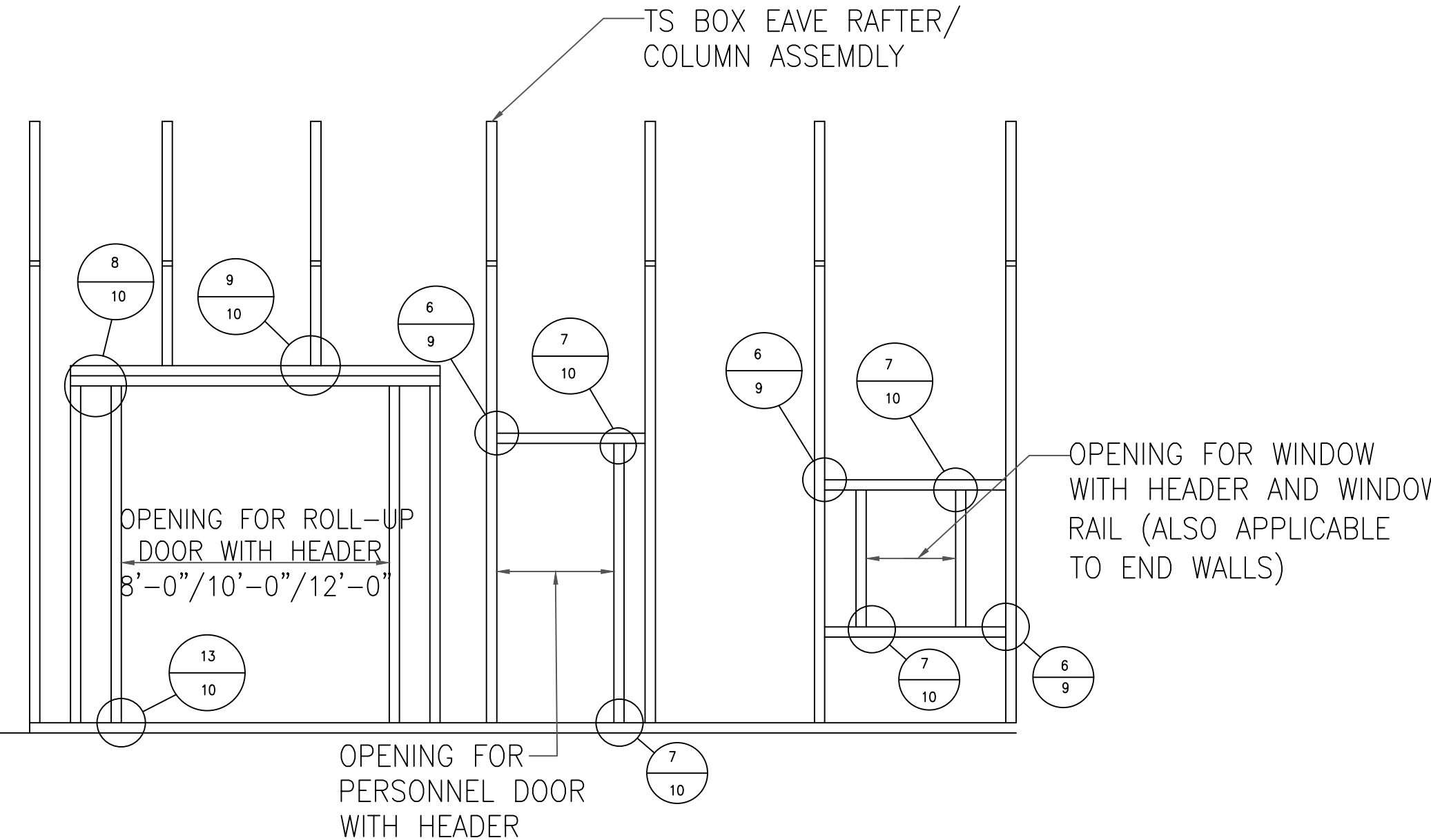
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



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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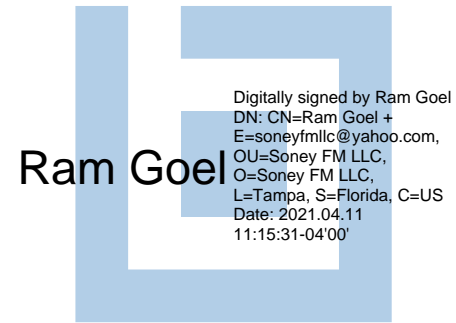
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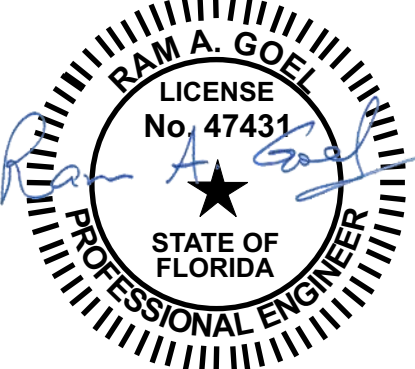
Revisions:		
No.	Date	Description
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BOX EAVE RAFTER END WALL AND
SIDE WALL OPENINGS

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10121 88TH TRACE
LIVE OAK, FL 32060



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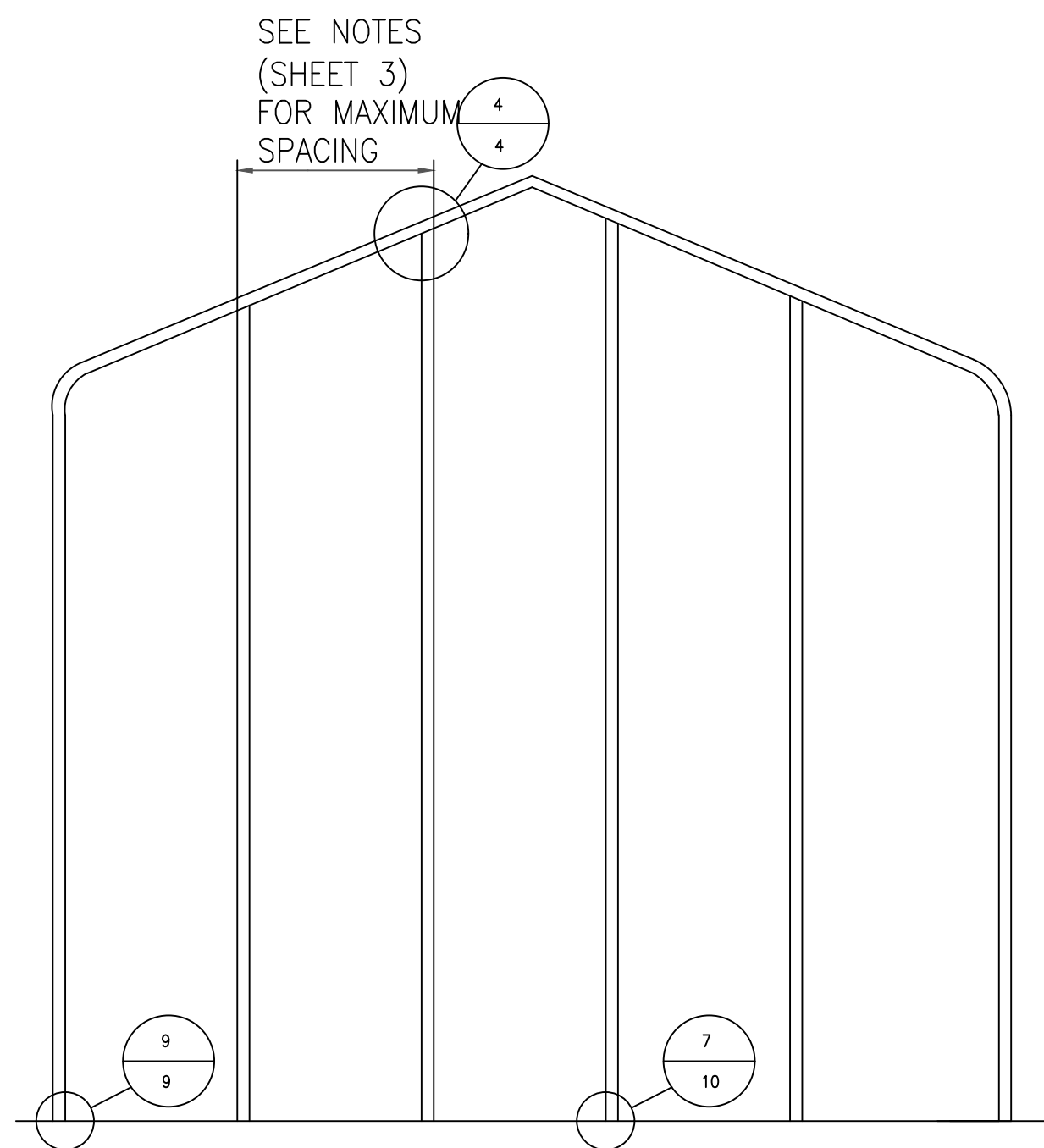


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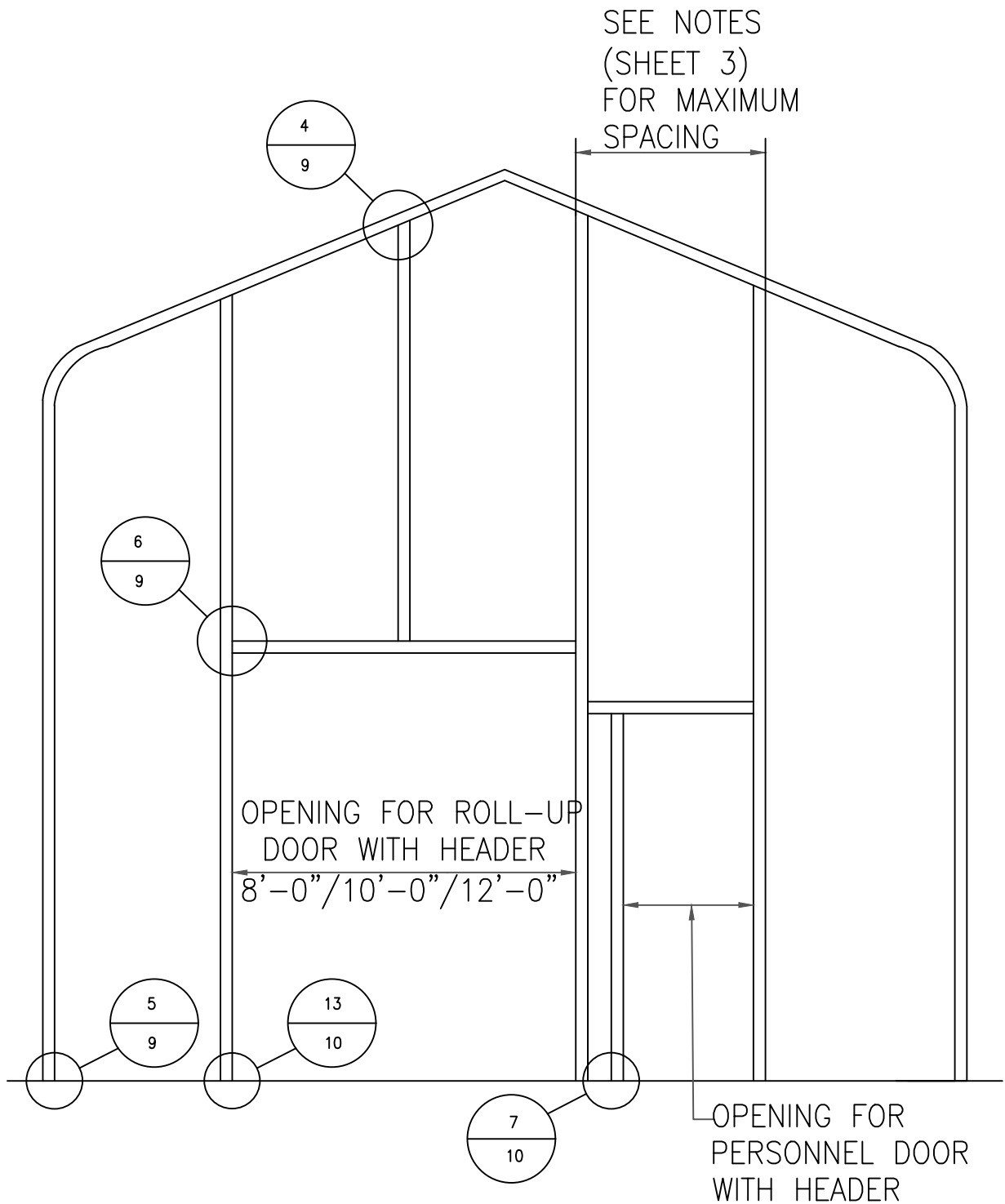
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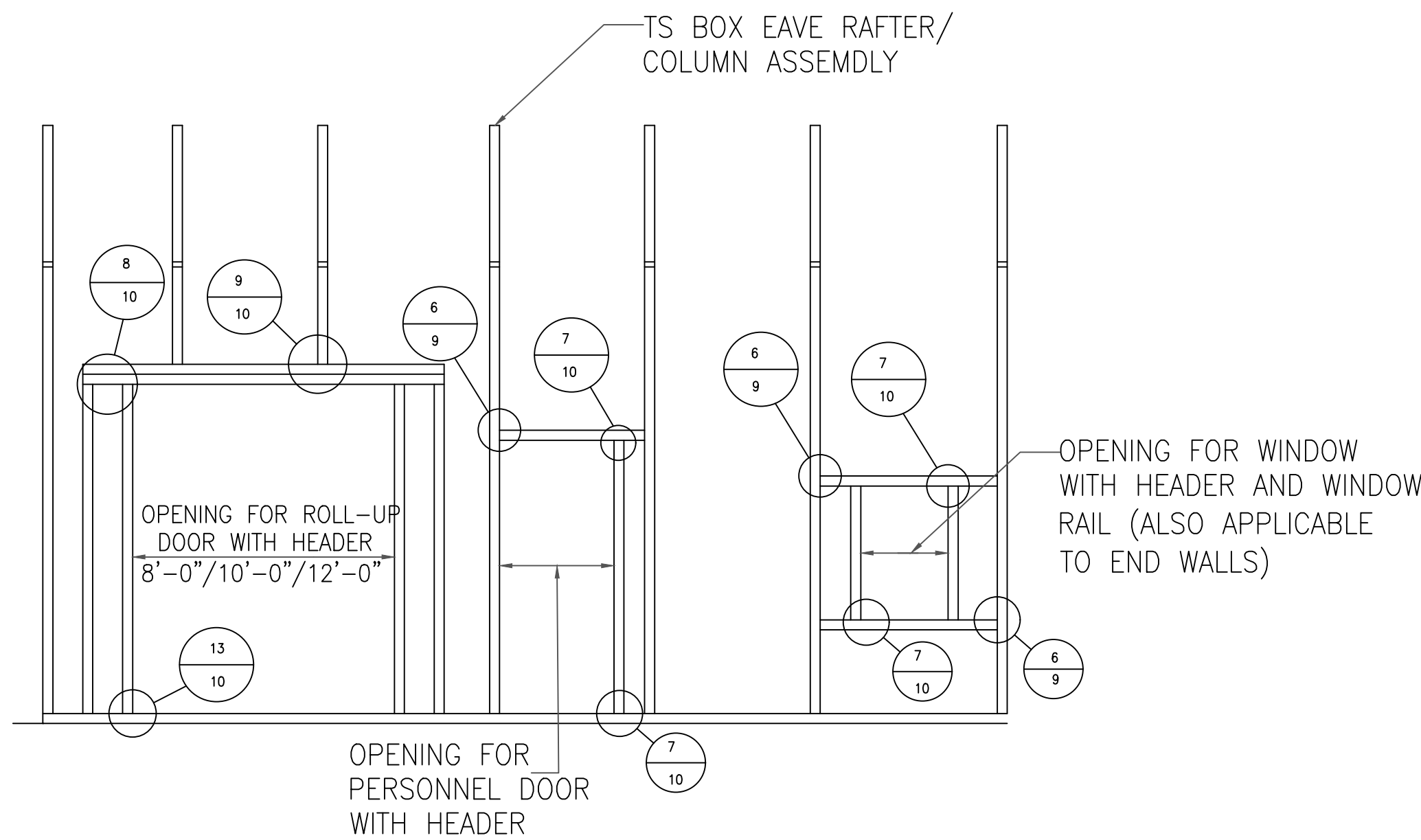
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



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.

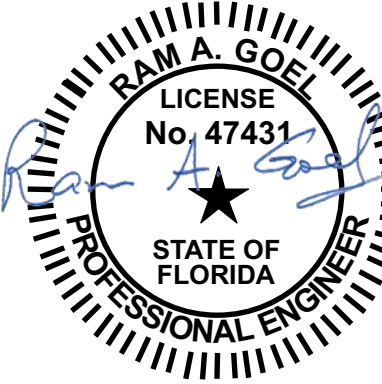
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CORY LAKE PROFESSIONAL CENTER
10329 CROSS CREEK BLVD., SUITE P
TAMPA, FL 33647
www.soneyfmllc.com

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

Issue Date:04-10-21		
Revisions:		
No.	Date	Description
Δ	11	
Δ	11	
Δ	11	
Δ	11	

Ram Goel
Digitally signed by Ram Goel
DN: cn=Ram Goel, o=SONEY FM LLC,
ou=SONEY FM LLC, cn=Ram Goel,
c=US, email=ramgoel@sonyfm.com,
date=2021.04.11 11:15:10-0400

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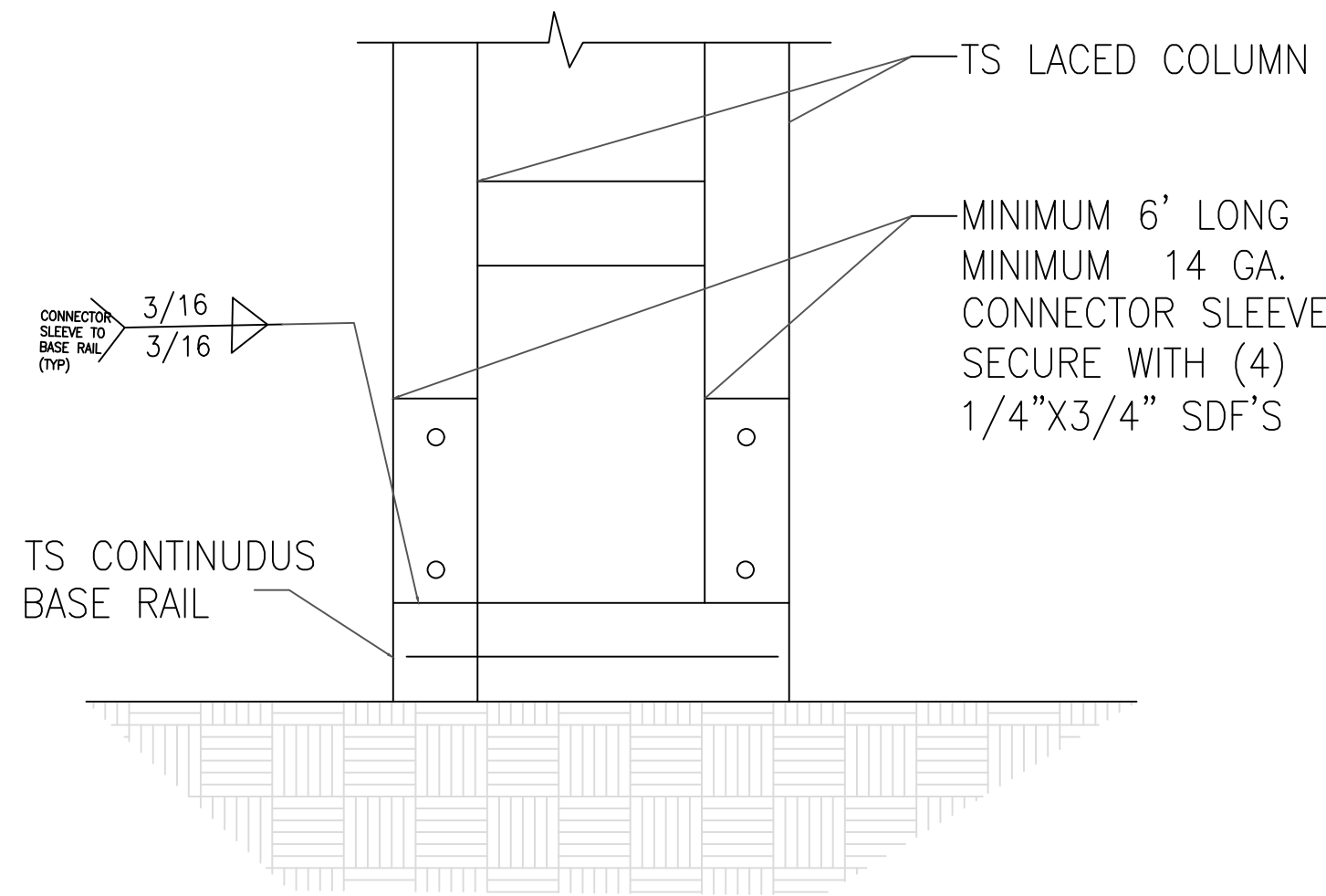
Dr. Ram A. Goel PE # 47431

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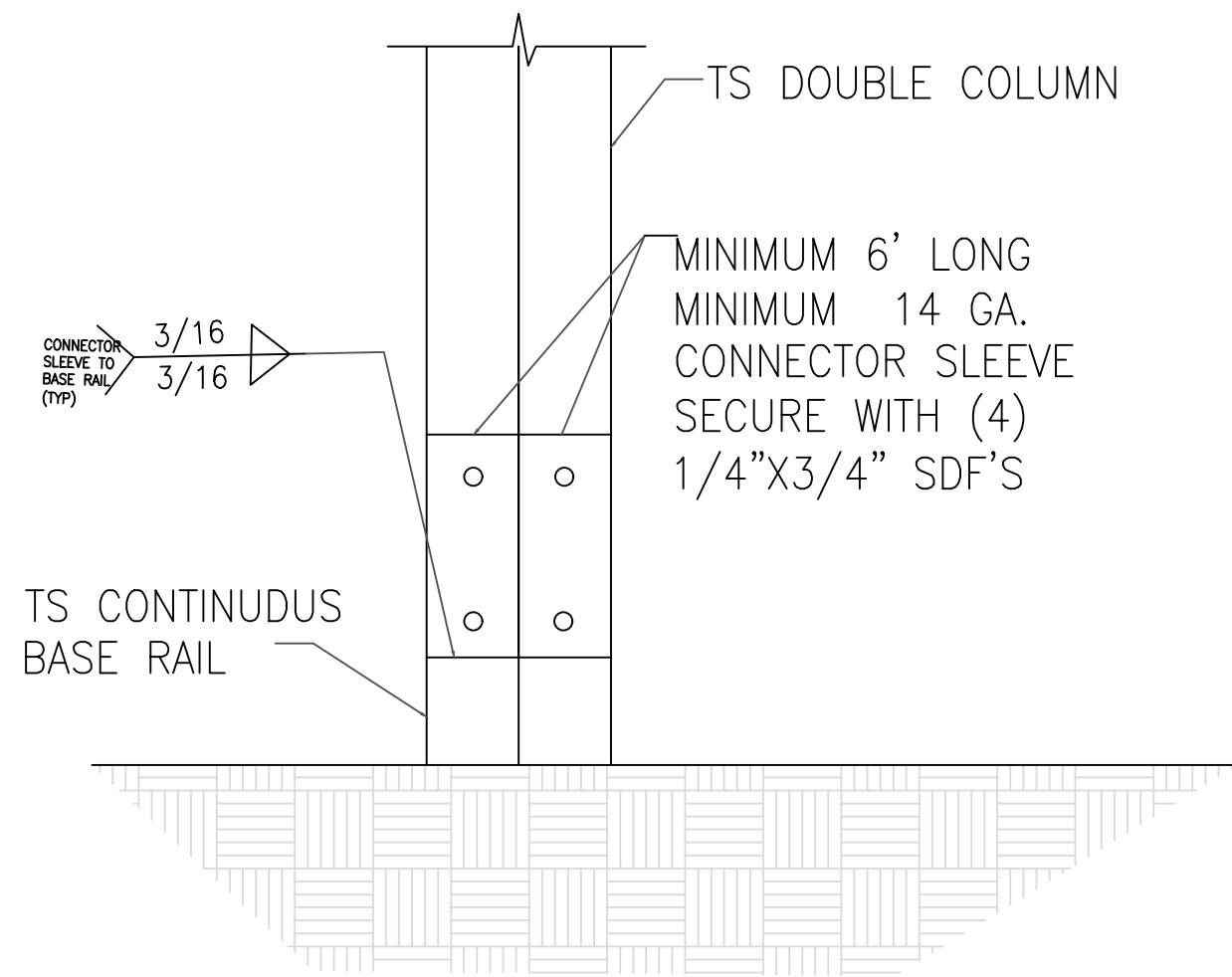
BOX EAVE RAFTER END WALL AND
SIDE WALL OPENINGS

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

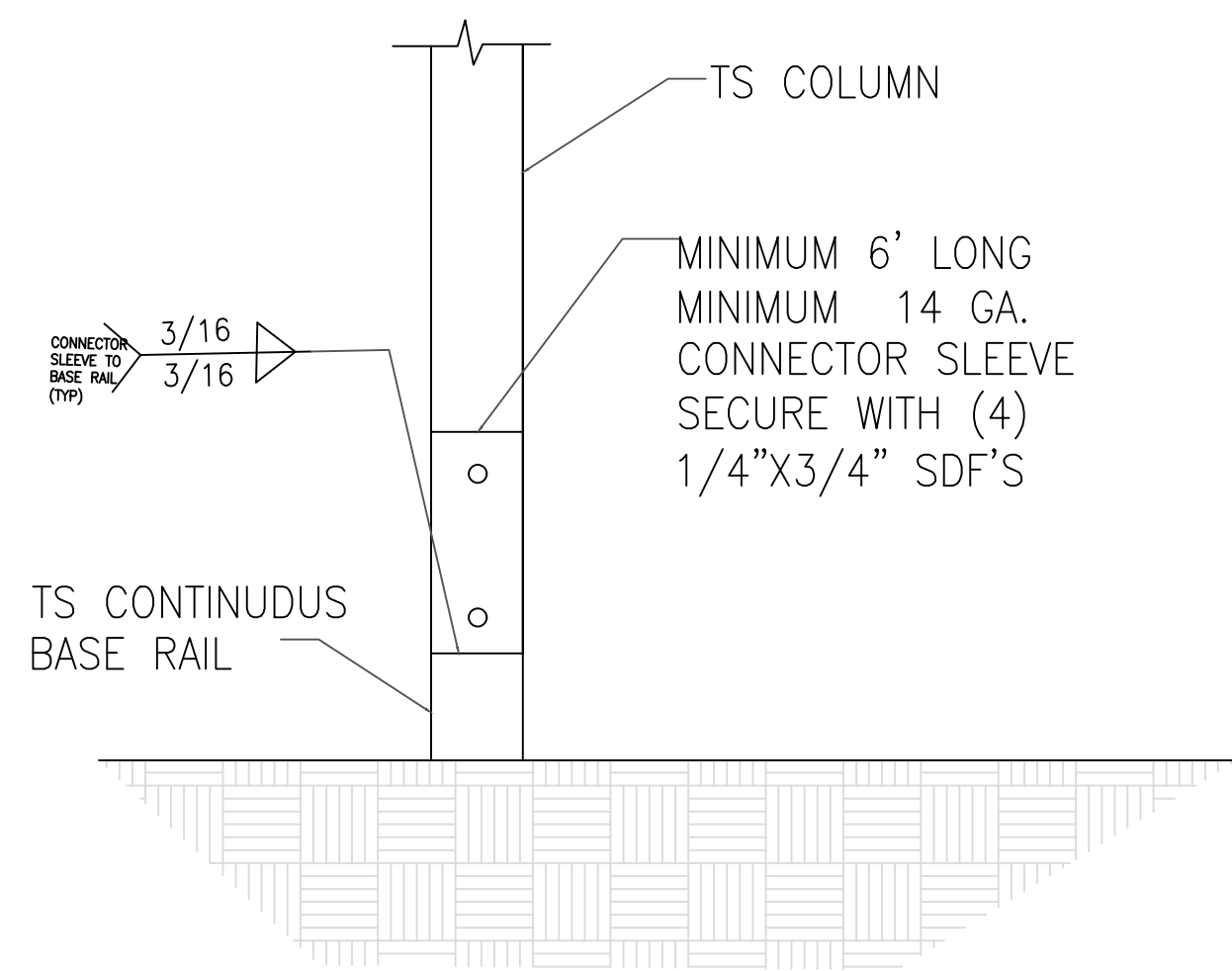
CONNECTION DETAILS



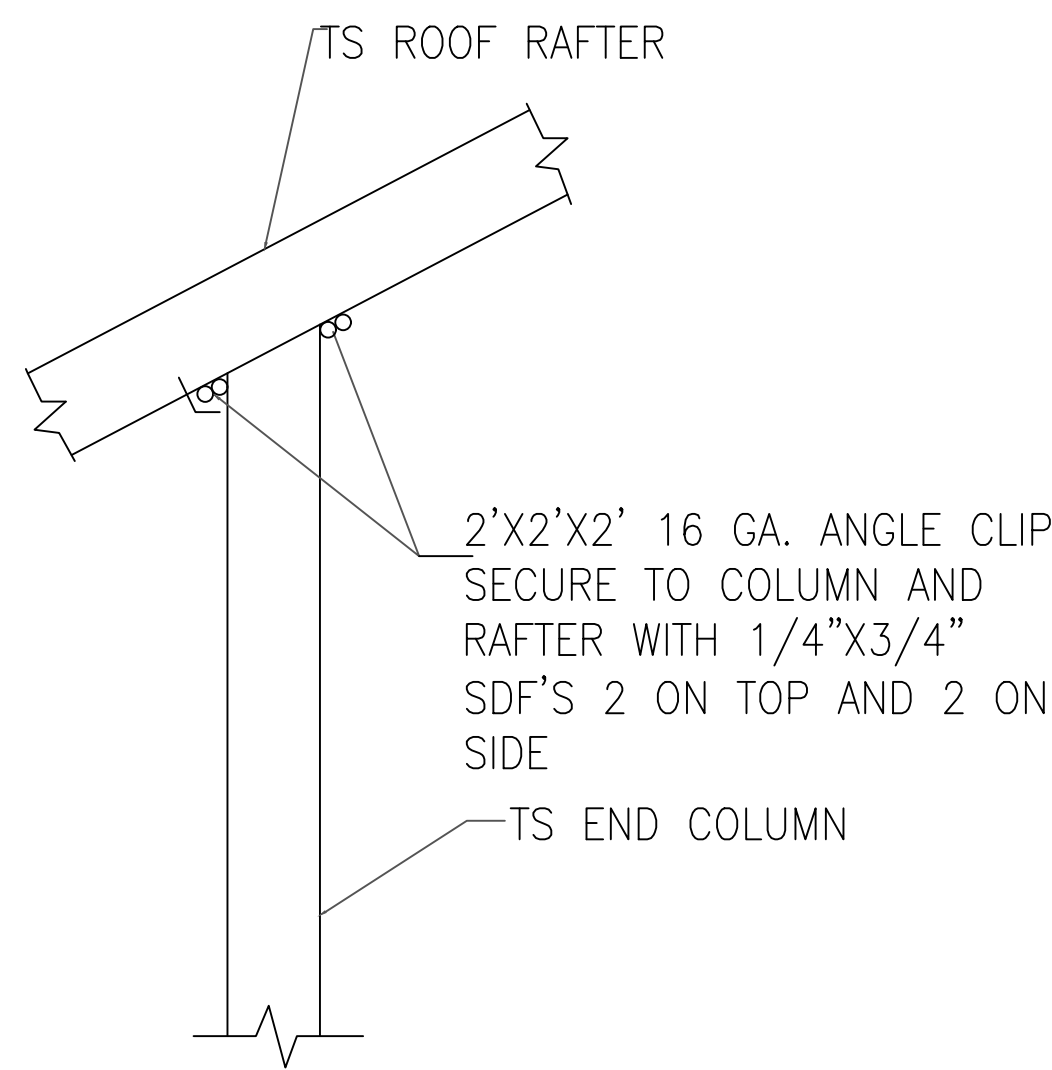
3A POST/BASE RAIL
CONNECTION DETAIL
SCALE: NTS



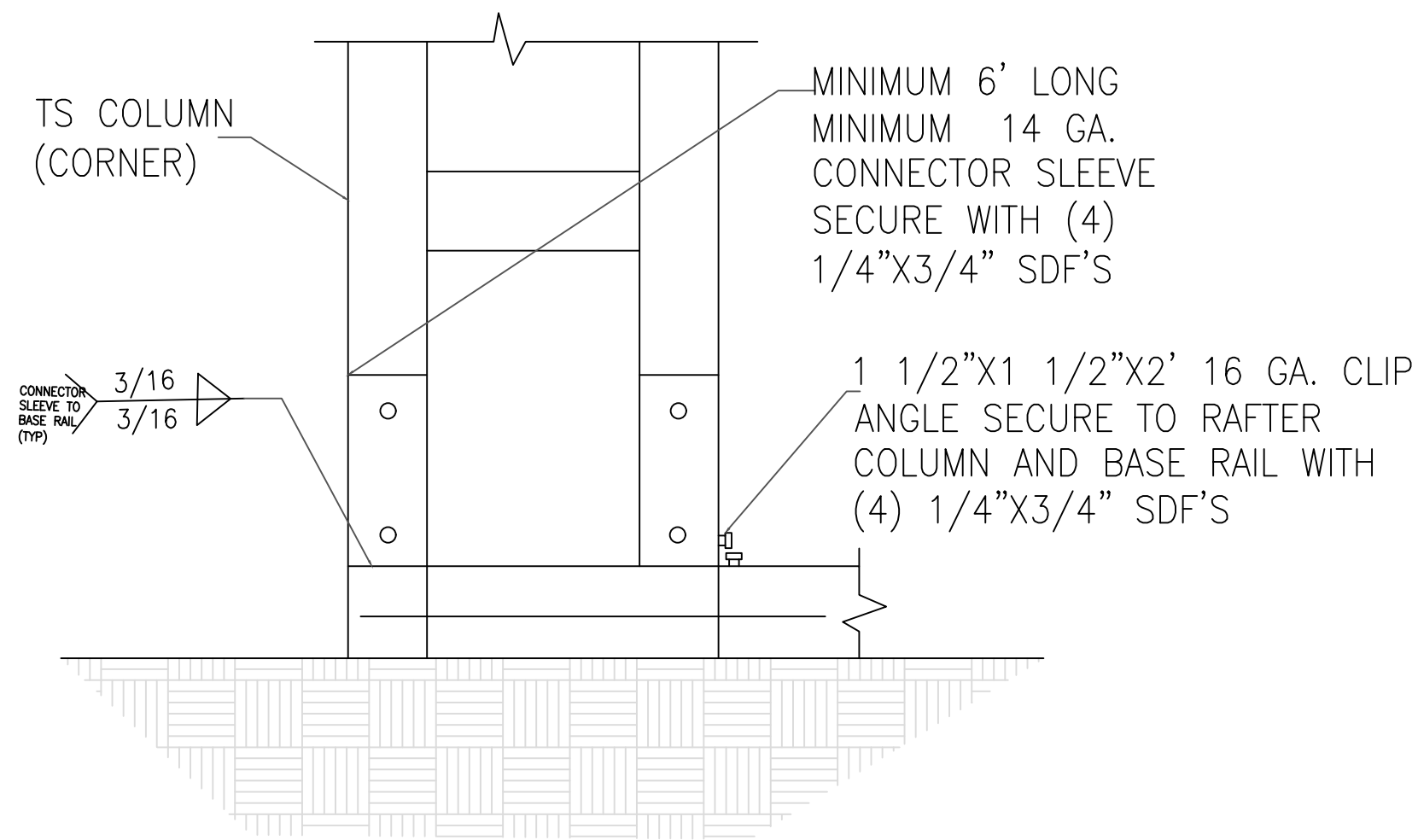
3B POST/BASE RAIL
CONNECTION DETAIL
SCALE: NTS



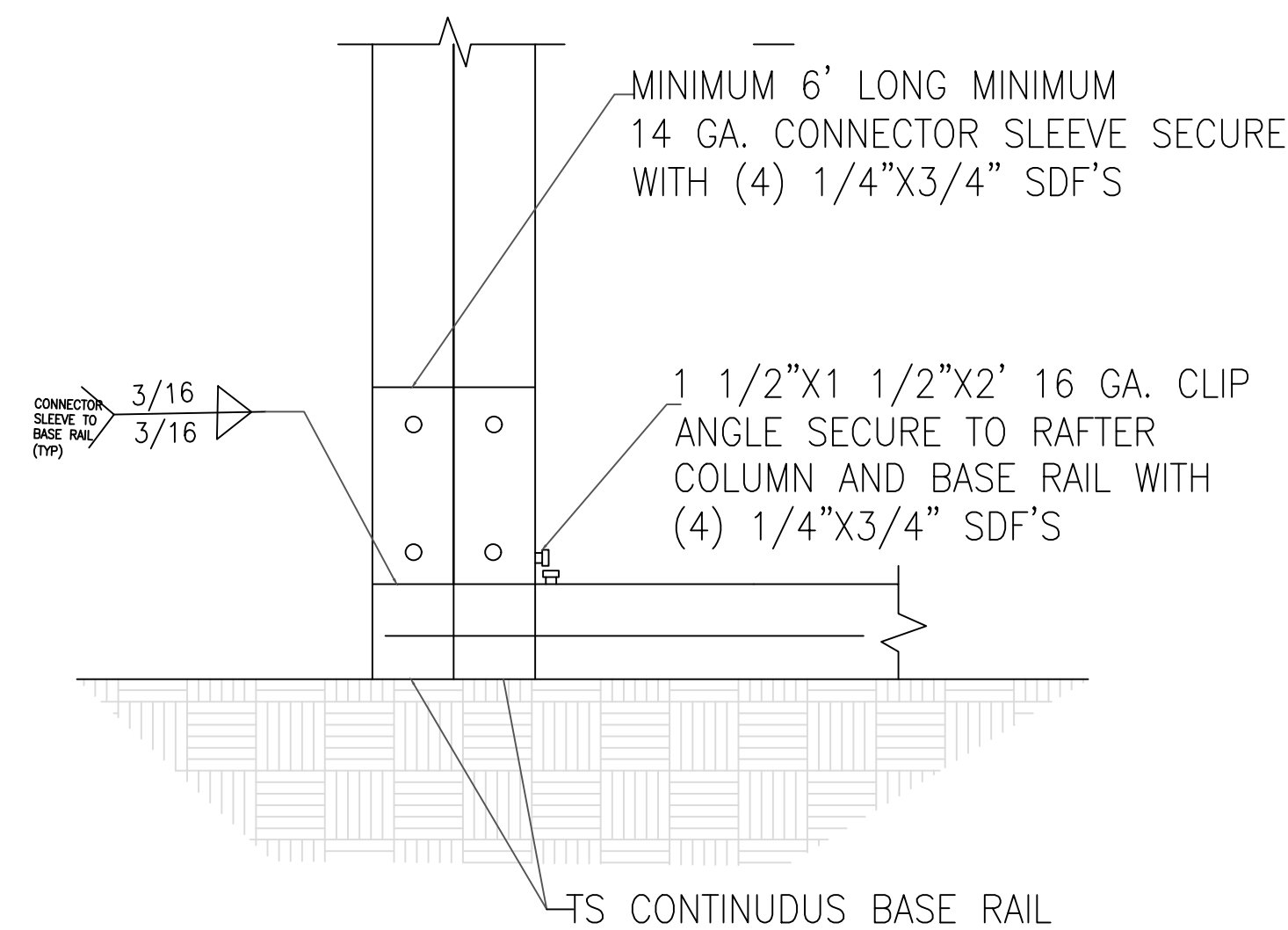
3C POST/BASE RAIL
CONNECTION DETAIL
SCALE: NTS



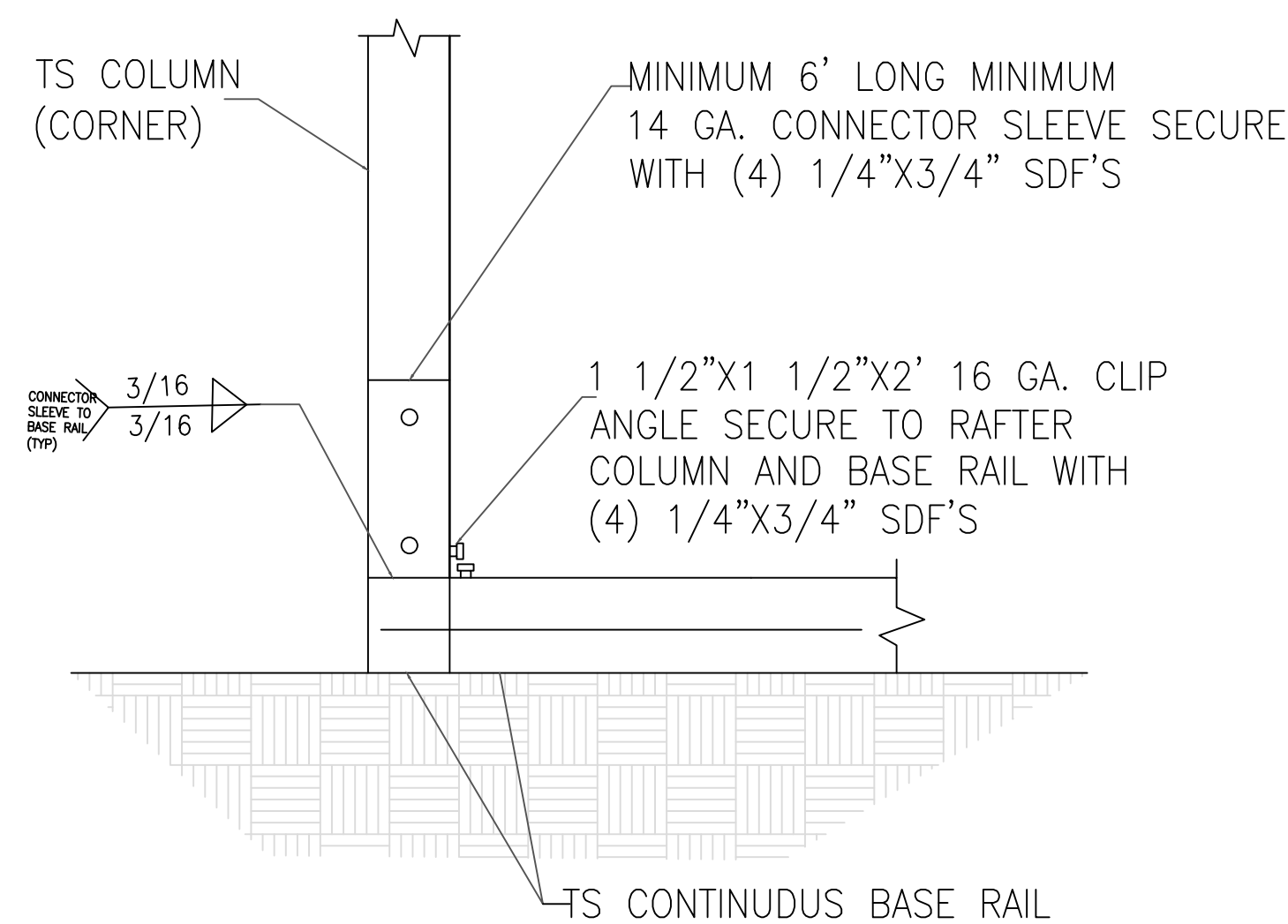
4 END COLUMN/RAFTER
CONNECTION DETAIL
SCALE: NTS



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



Richard G. Marceau, P.E. # 64466
PH: 813-388-6090
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www.soneyfmllc.com

Job # S2080

Drawn By: K.D.

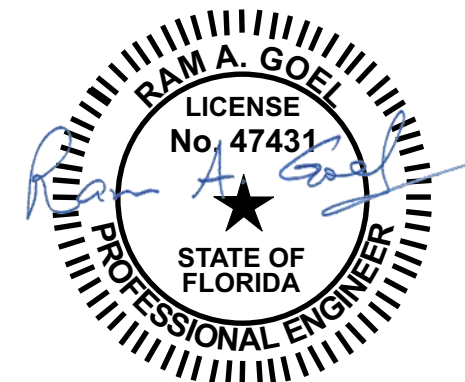
Checked By: S.G.

Issue Date: 04-10-21

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Δ	11	
Δ	11	

Digitally signed by Ram
Goel
DN: cn=Ram Goel +
E=soneyfmllc@yahoo.com,
ou=Soney FM LLC,
o=Soney FM LLC,
l=Tampa, St=Florida, C=US
Date: 2021.04.11
11:14:50-0400

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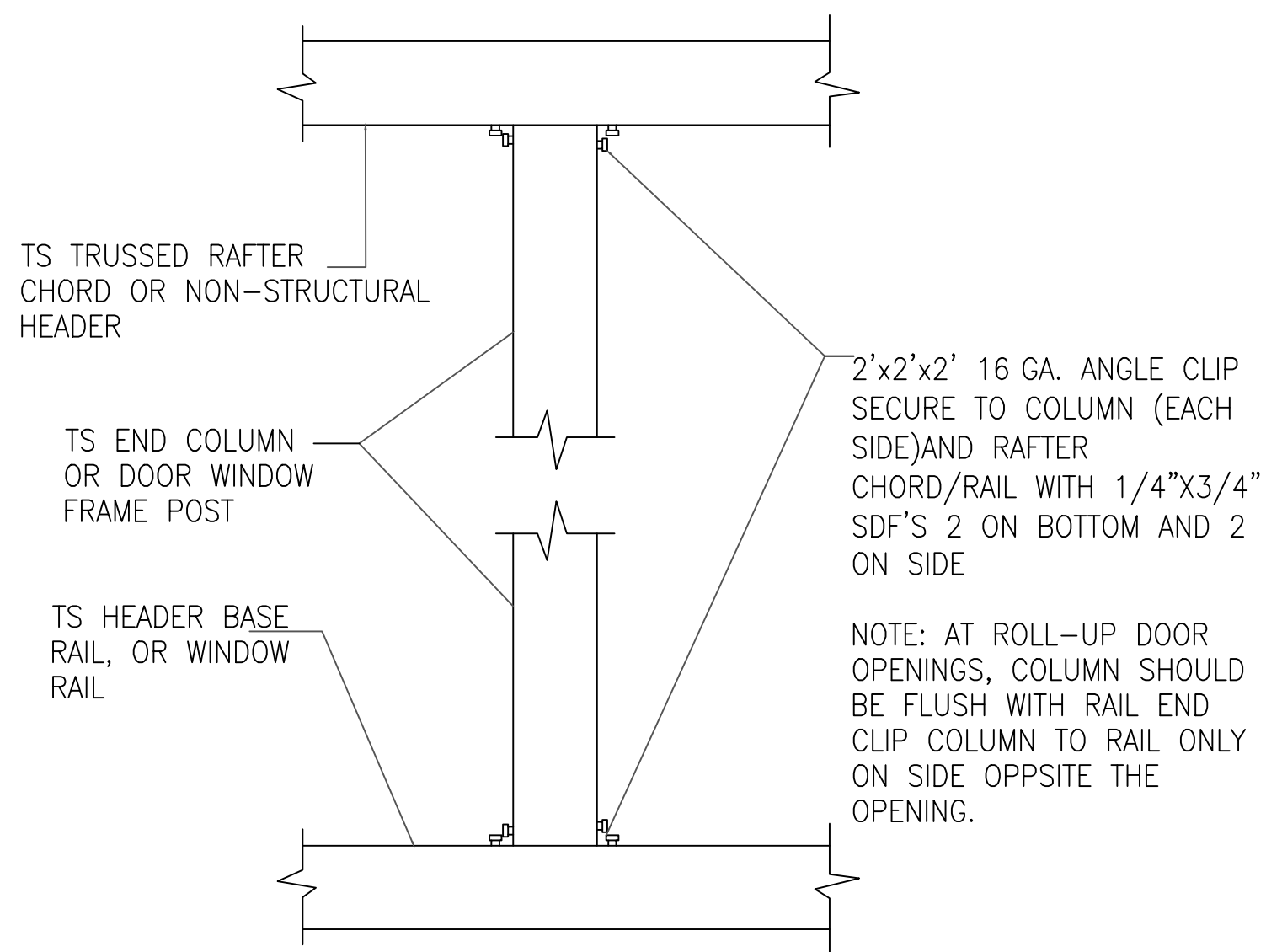
Dr. Ram A. Goel PE # 47431

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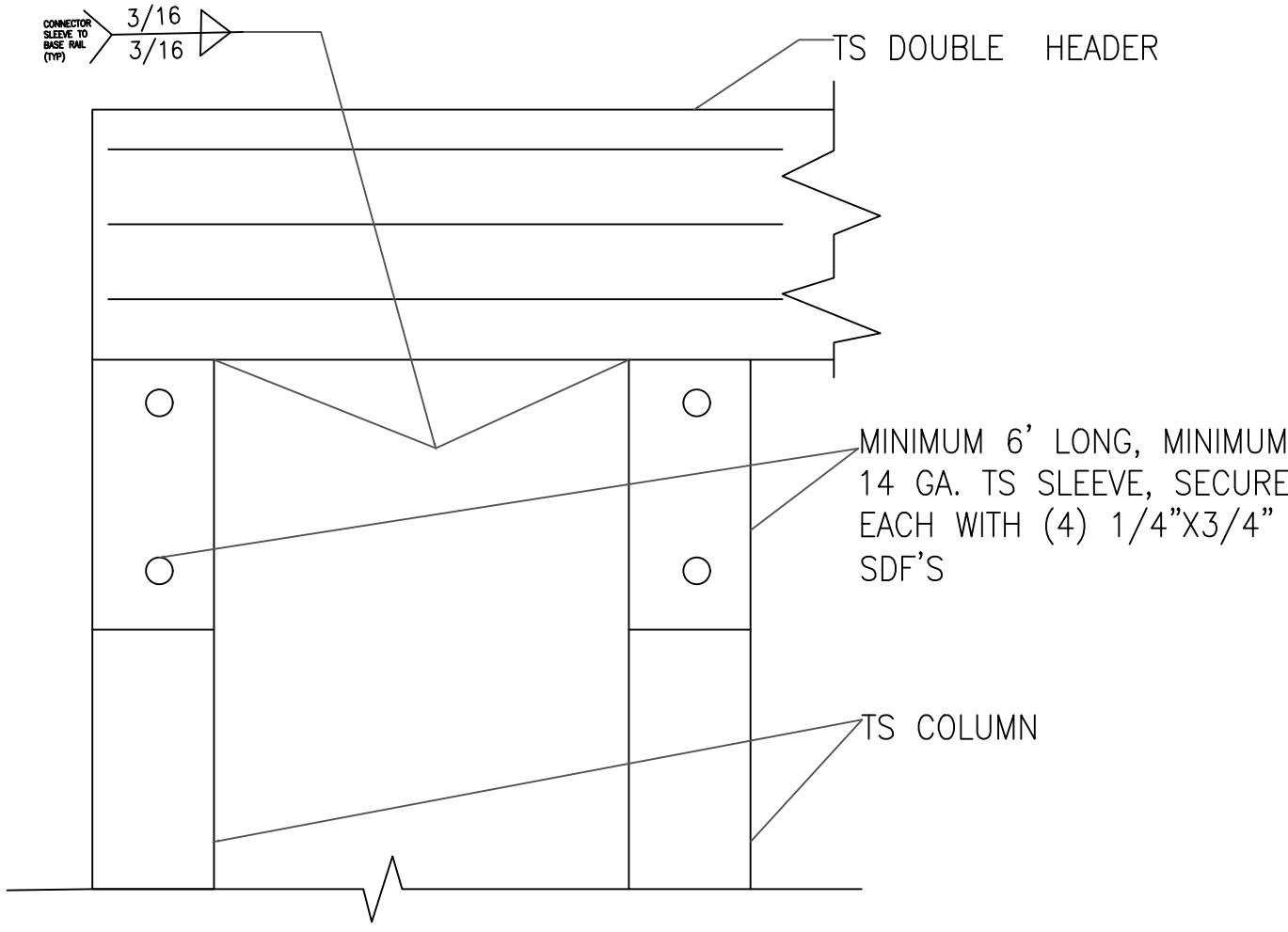
CONNECTION DETAILS

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

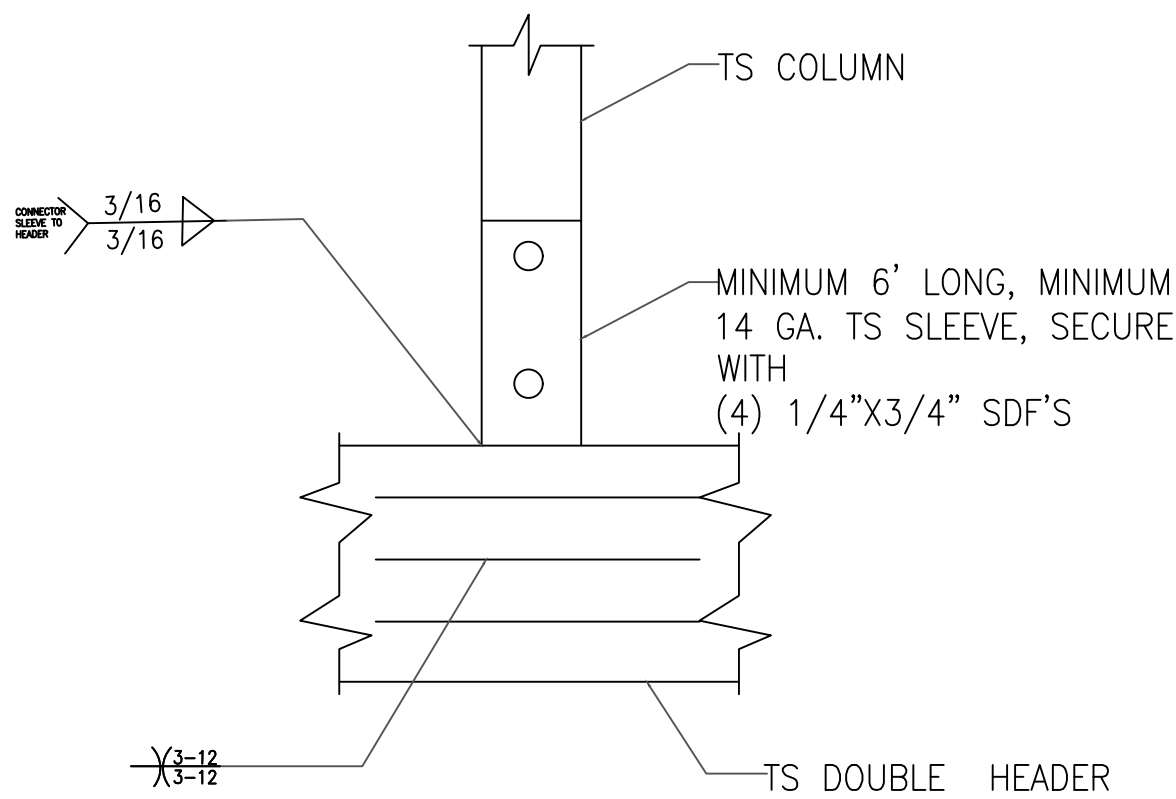
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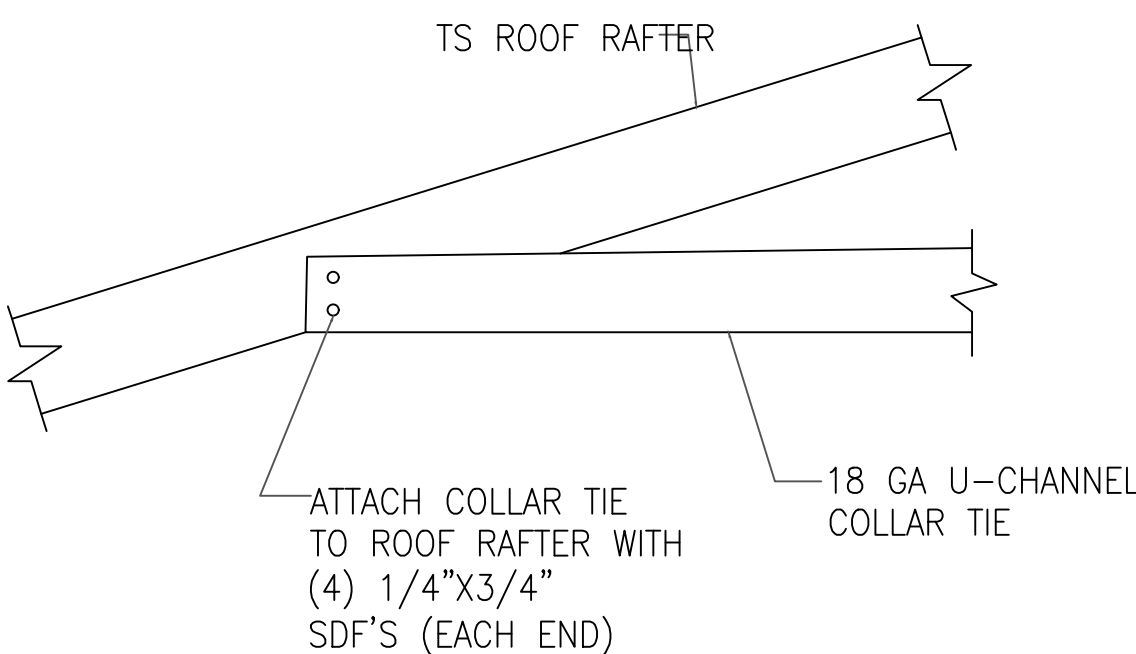
7 COLUMN TO HEADER, BASE RAIL OR WINDOW RAIL CONNECTION DETAIL
SCALE: NTS



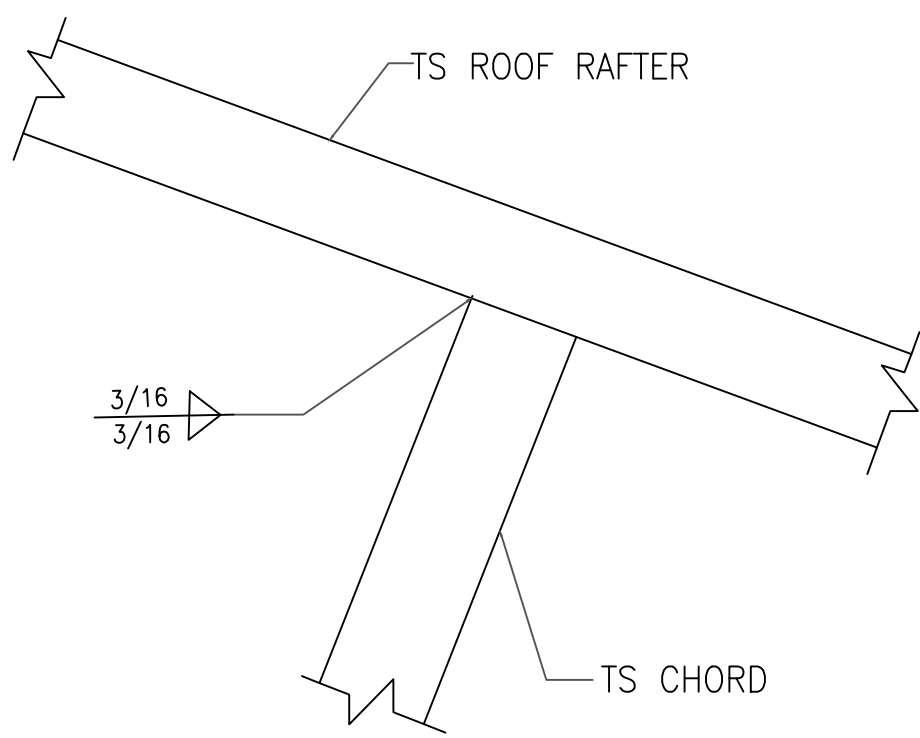
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



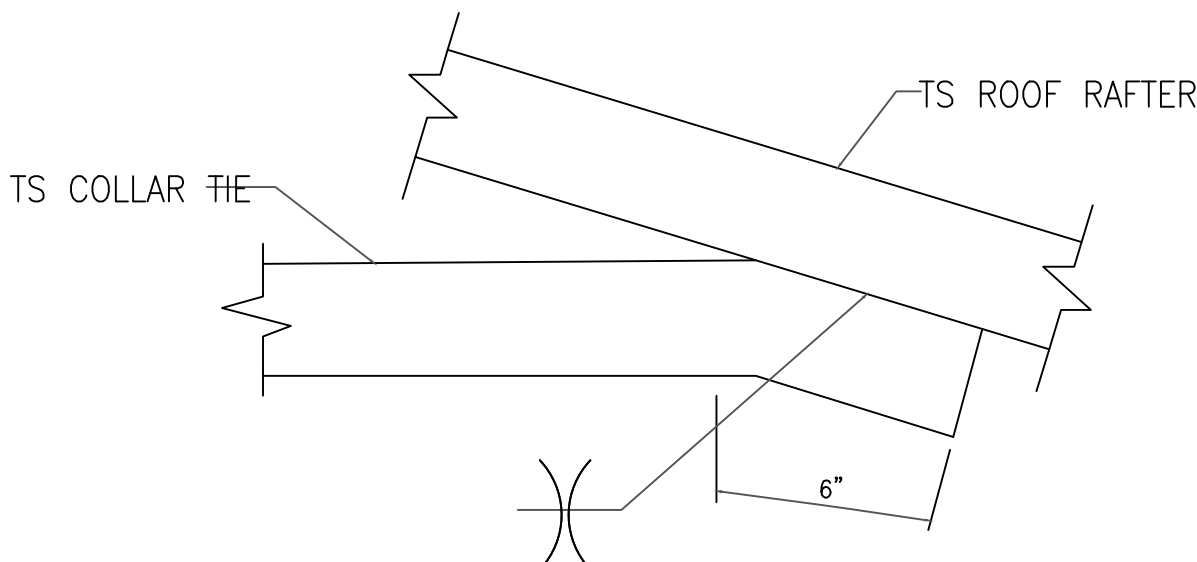
9 COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



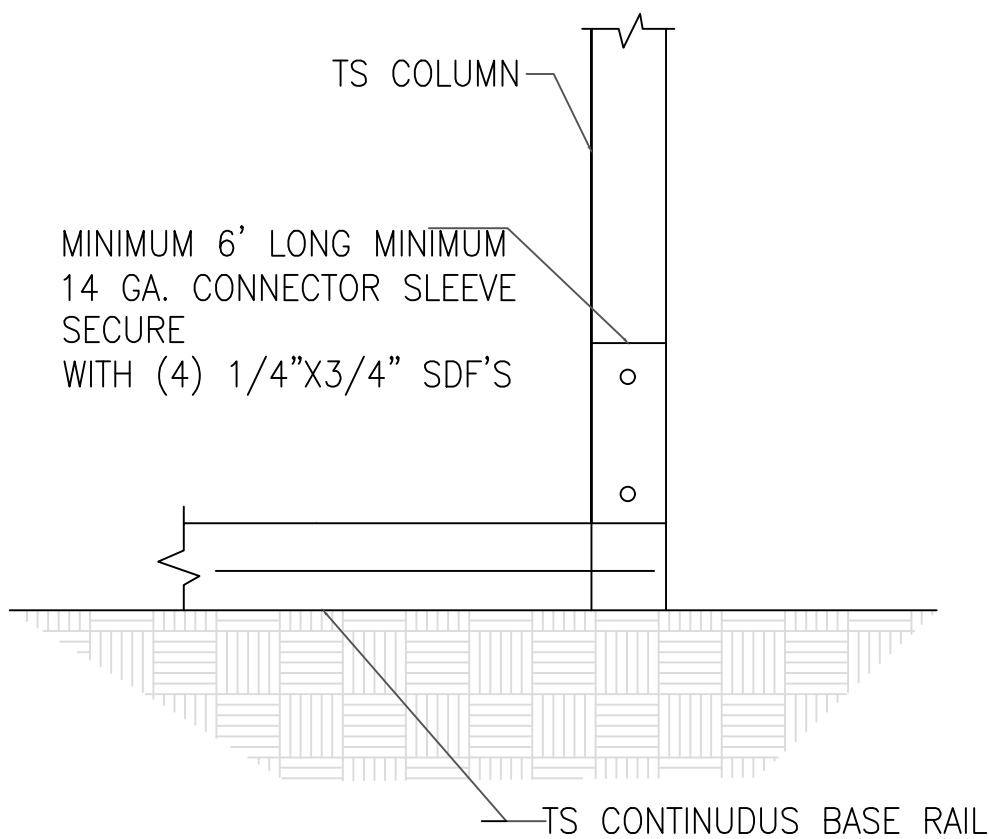
10 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



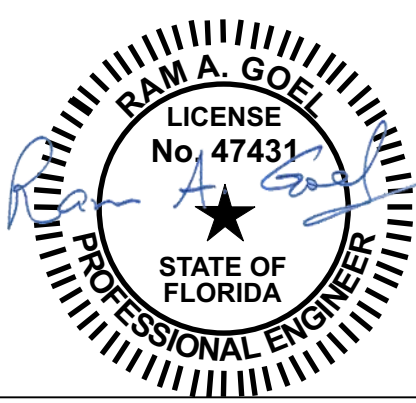
11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



13 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



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Checked By: S.G.

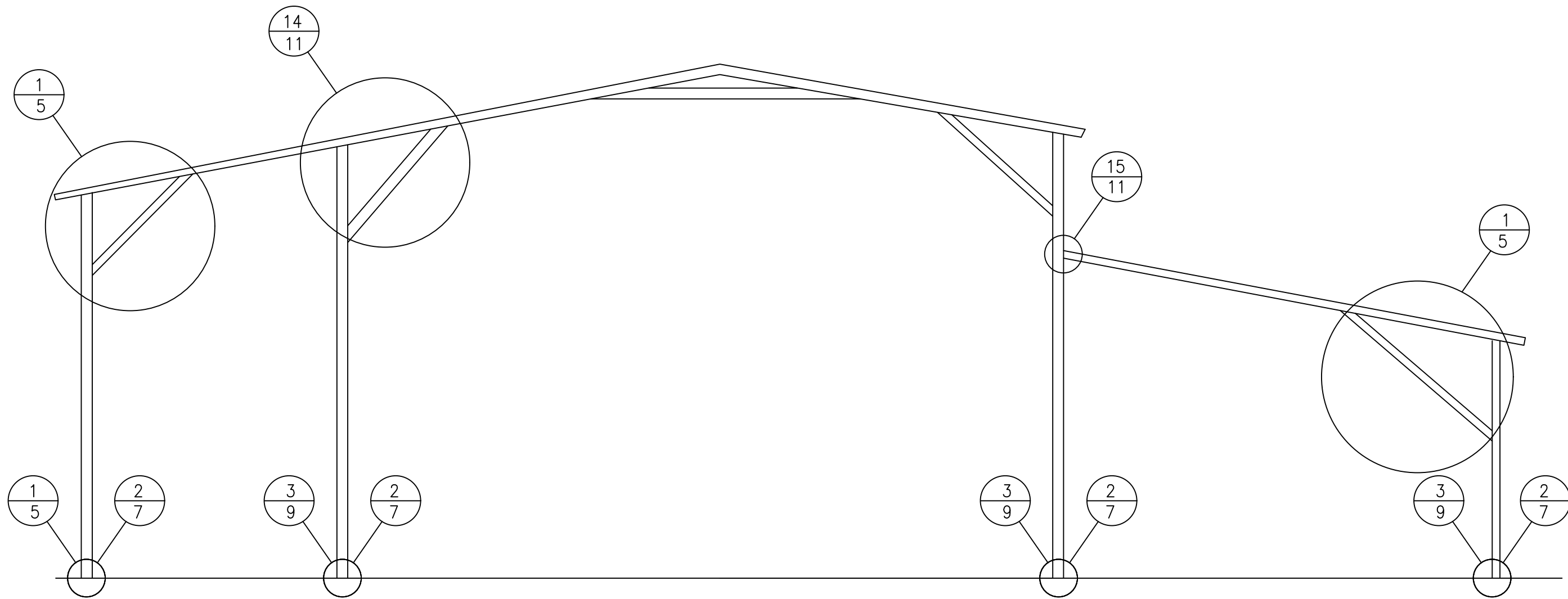
Issue Date: 04-10-21

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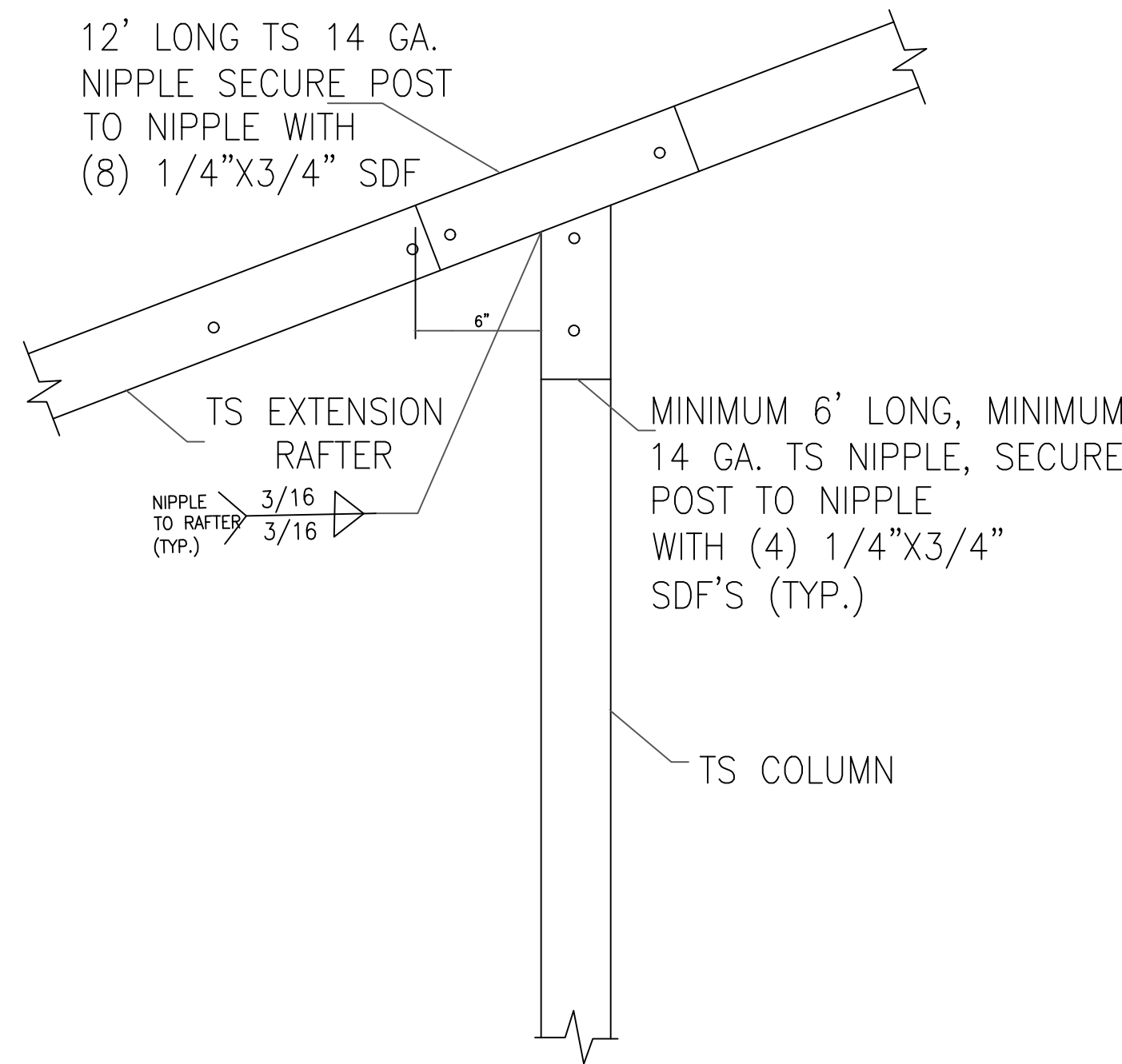
CONNECTION DETAILS

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

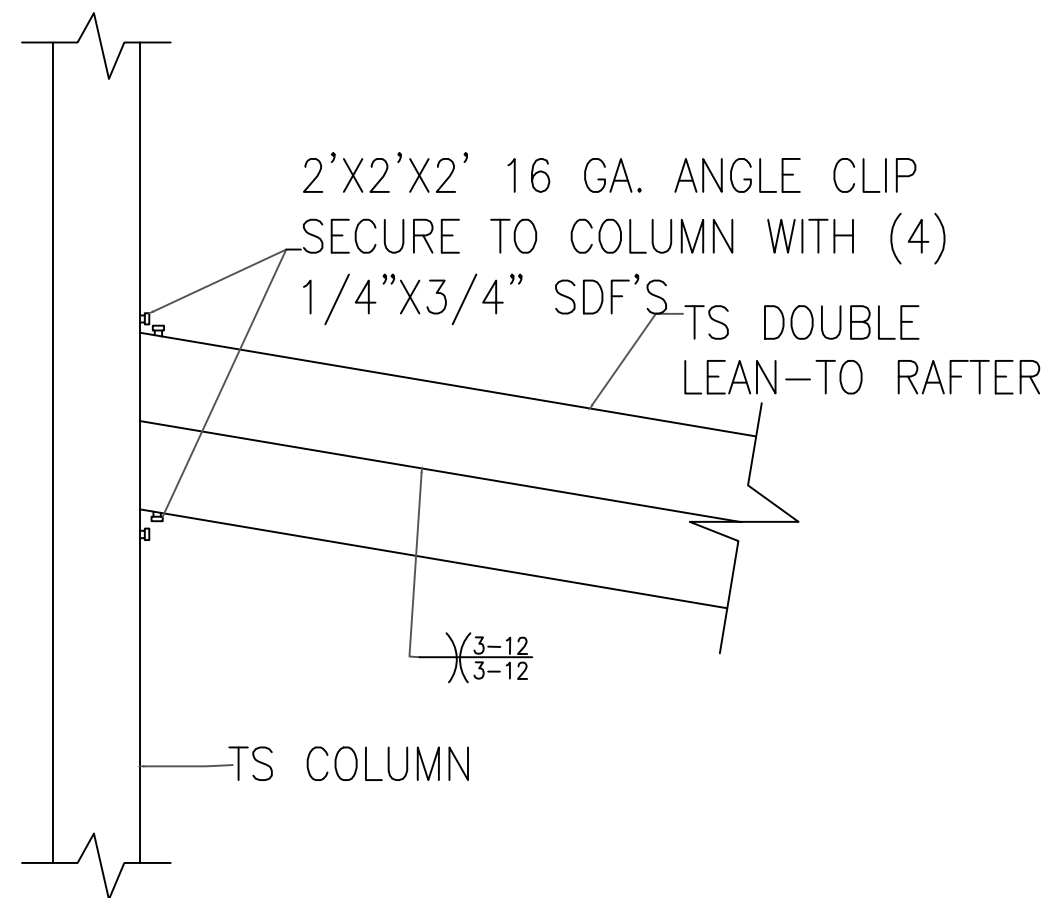
BOX EAVE RAFTER LEAN-TO OPTIONS



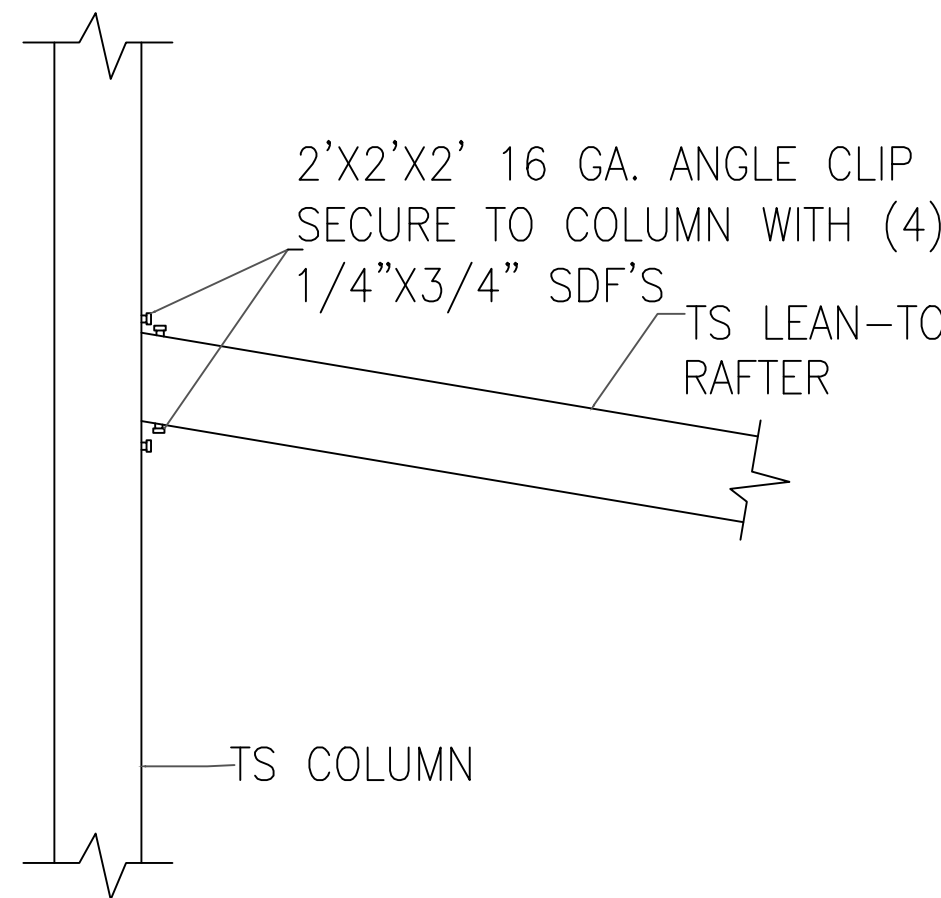
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)
SCALE: NTS



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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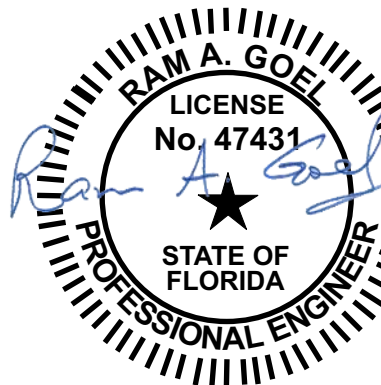
BOX EAVE RAFTER LEAN-TO OPTIONS

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LIVE OAK, FL 32060

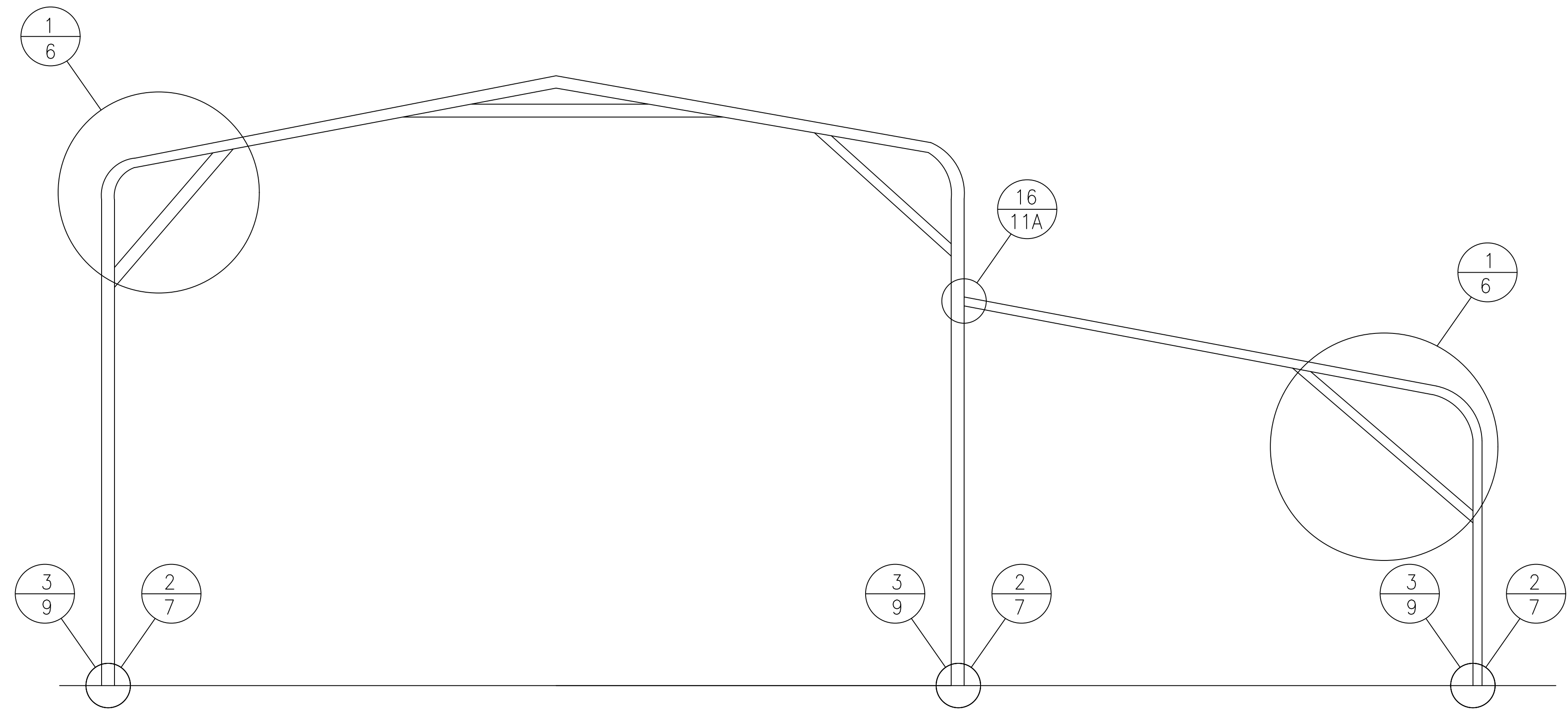


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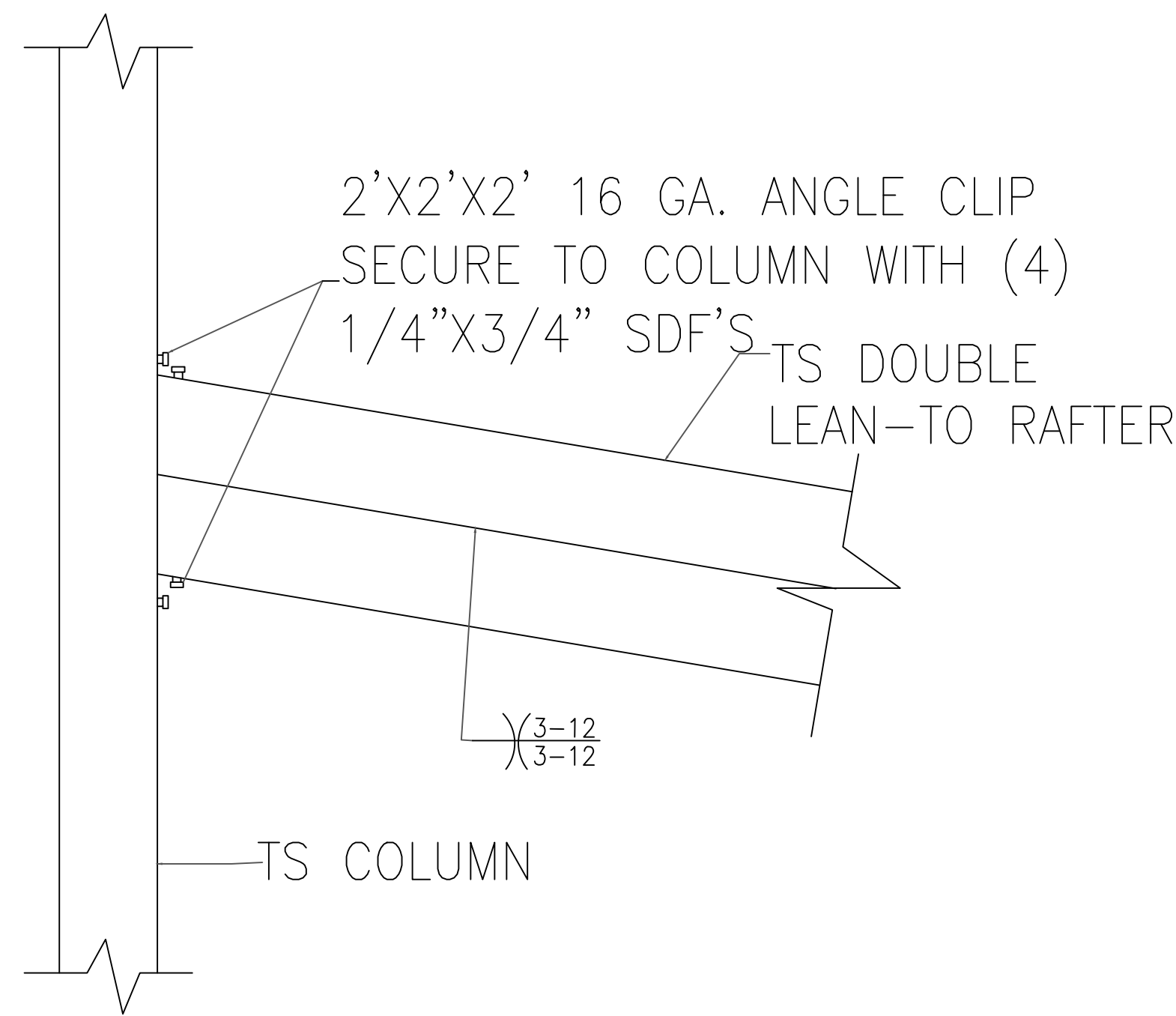


BOX EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

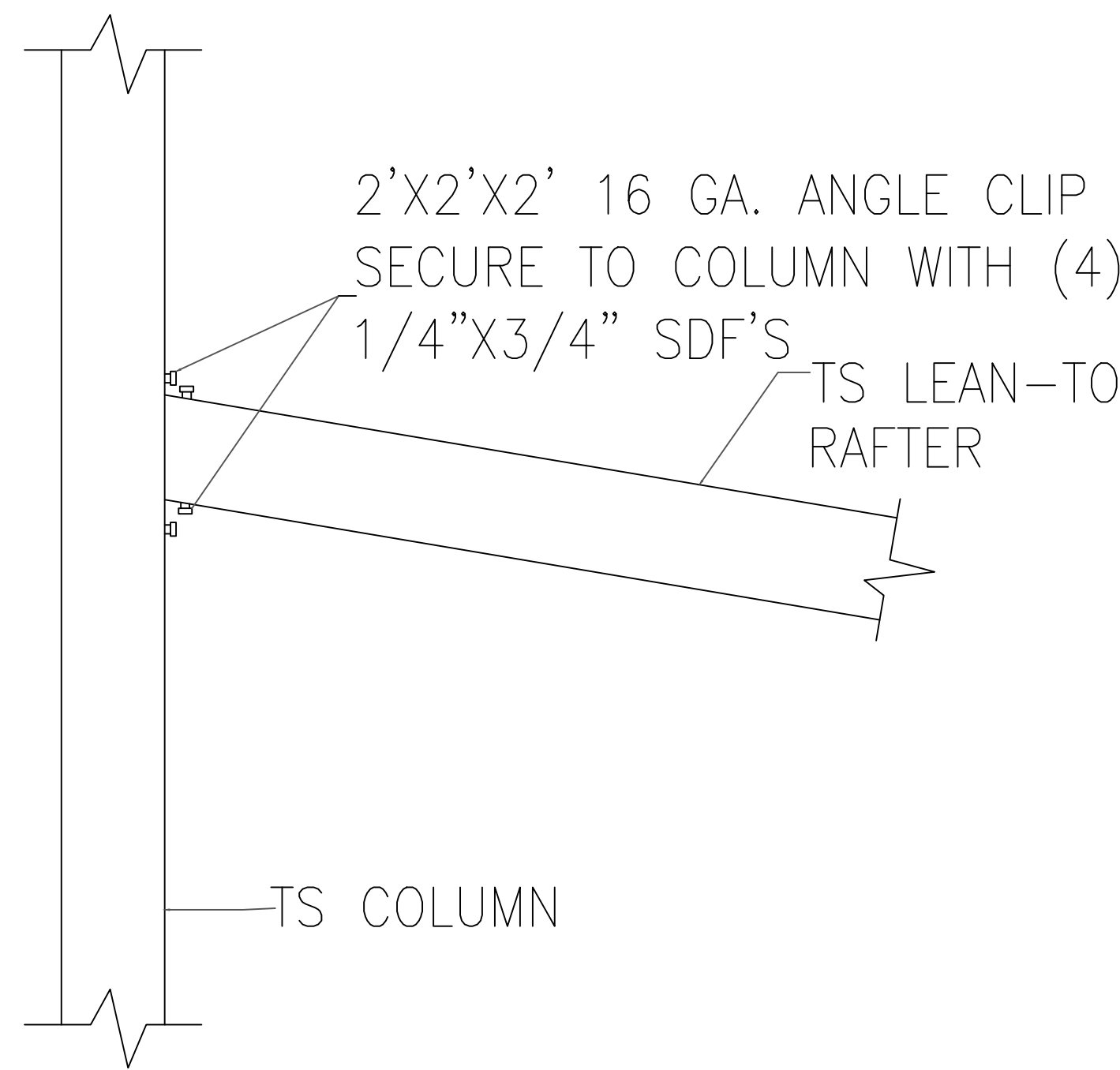
SCALE: NTS



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

16A

SCALE: NTS



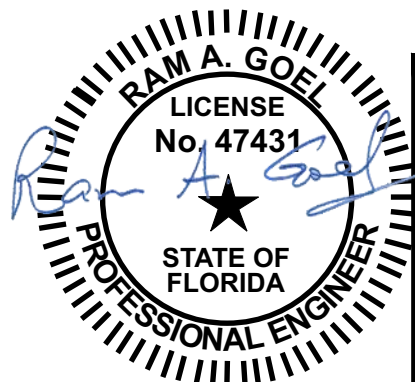
LEAN-TO RAFTER TO
RAFTER POST CONNECTION
DETAIL FOR WIDTHS ≤12'-0"

16B

SCALE: NTS

Ram Goel
Digitally signed by Ram Goel
DN: cn=Ram Goel,
E=ram@sonex-fm.com,
OU=Sonex FM LLC,
O=Sonex FM LLC,
L=Tallahassee, S=Florida, C=US
Date: 2023.04.11
11:13:49-0400'

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www.sonexfmllc.com

Job # S2080

Drawn By: K.D.

Checked By: S.G.

Issue Date: 04-10-21

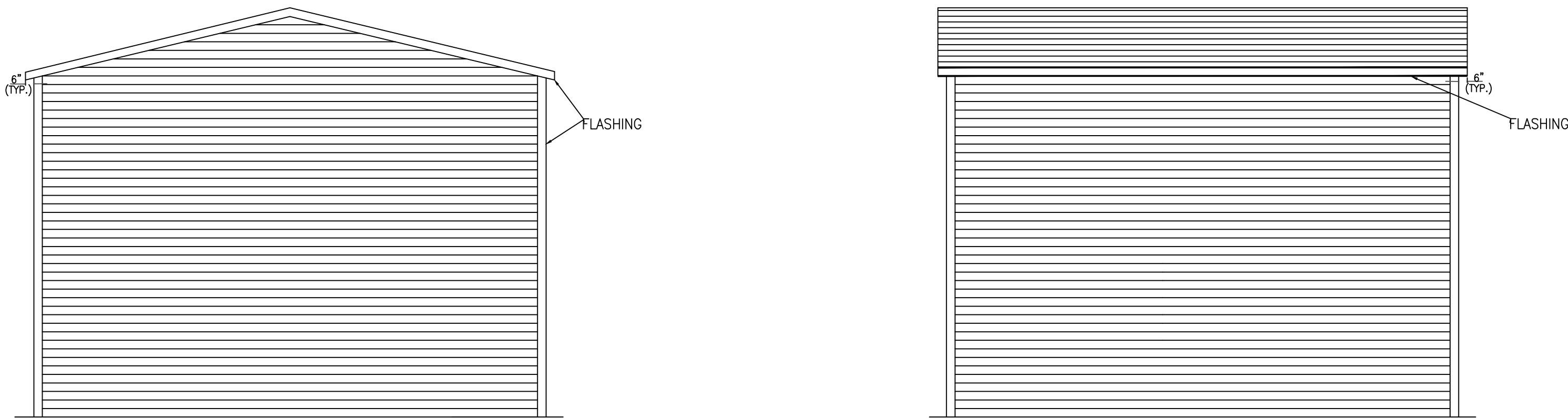
Revisions:

No.	Date	Description
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BOX EAVE RAFTER LEAN-TO OPTIONS

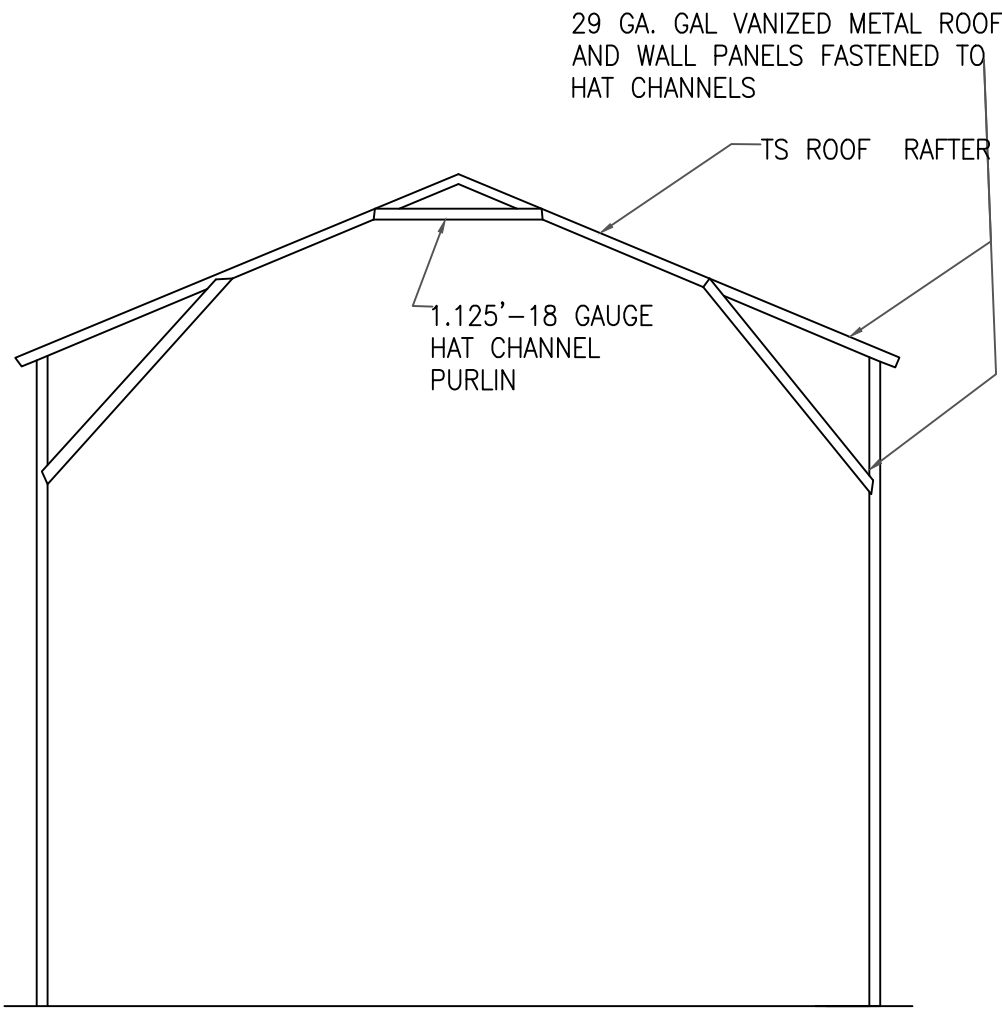
ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION

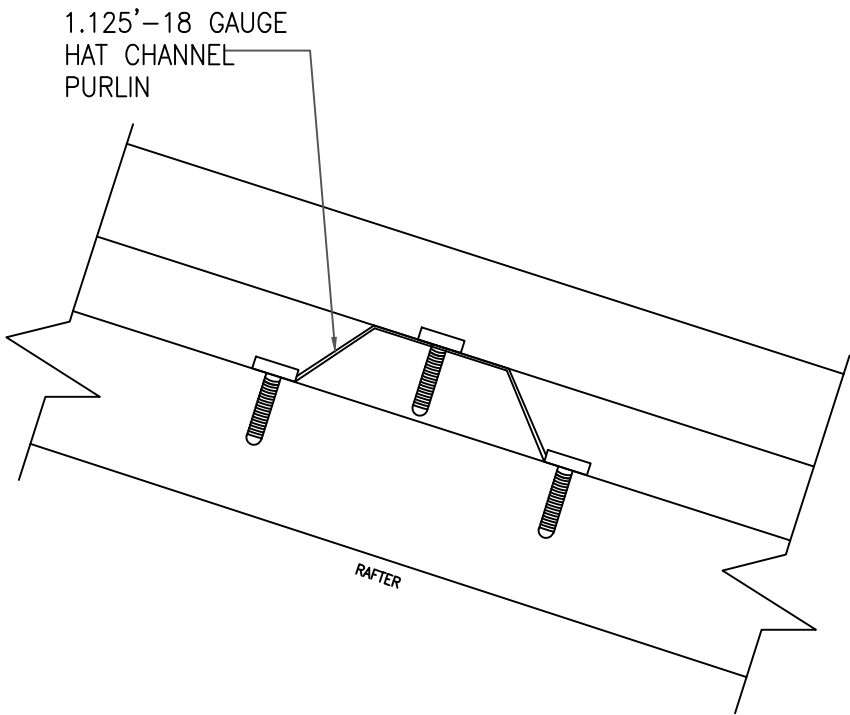


TYPICAL END ELEVATION
VERTICAL ROOF/SIDING
SCALE: N.T.S.

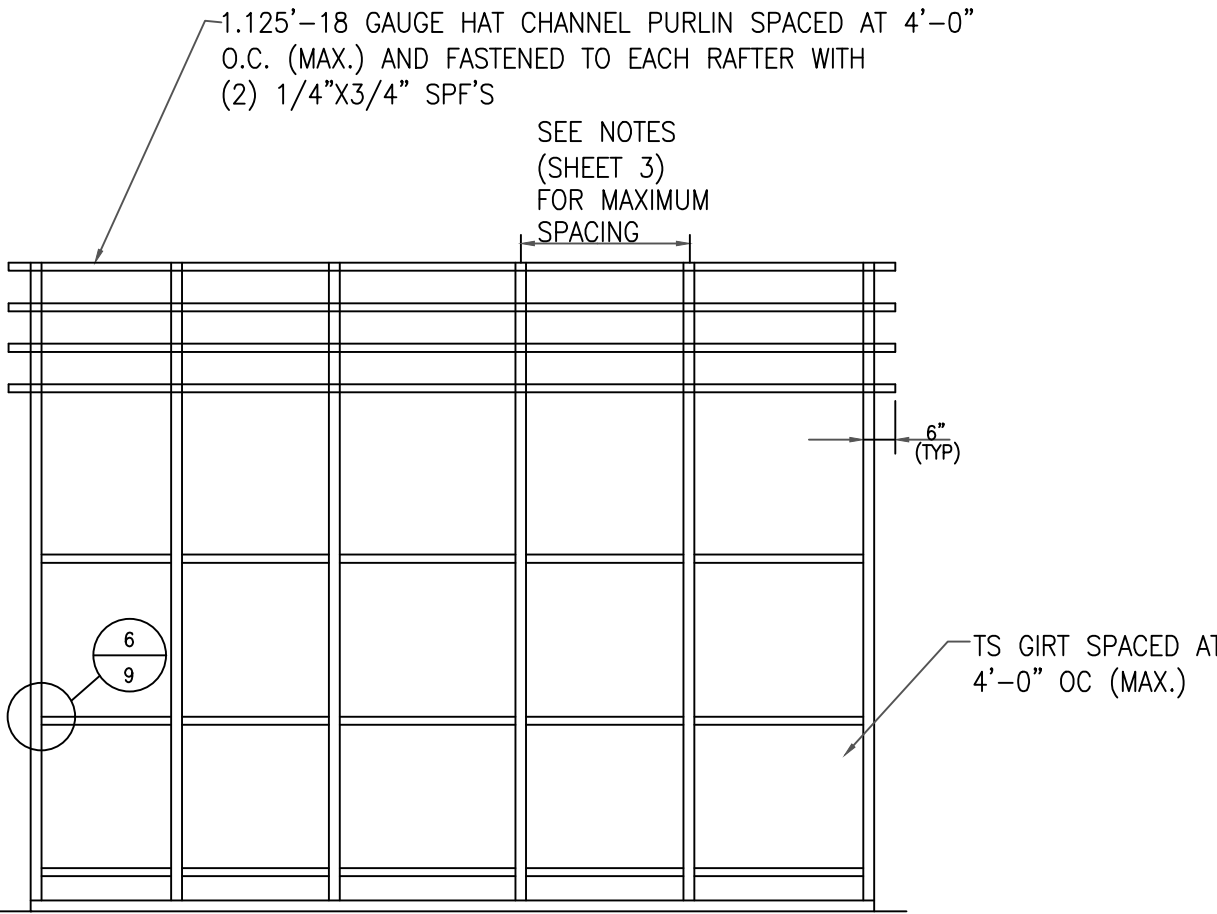
TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING
SCALE: N.T.S.



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



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



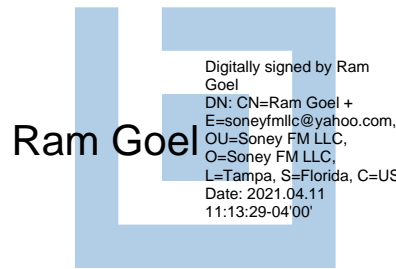
TYPICAL FRAME SECTION
VERTICAL ROOF/SIDING OPTION
SCALE: N.T.S.



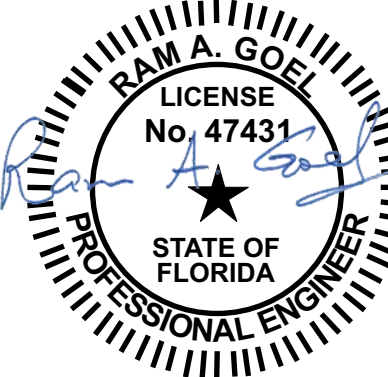
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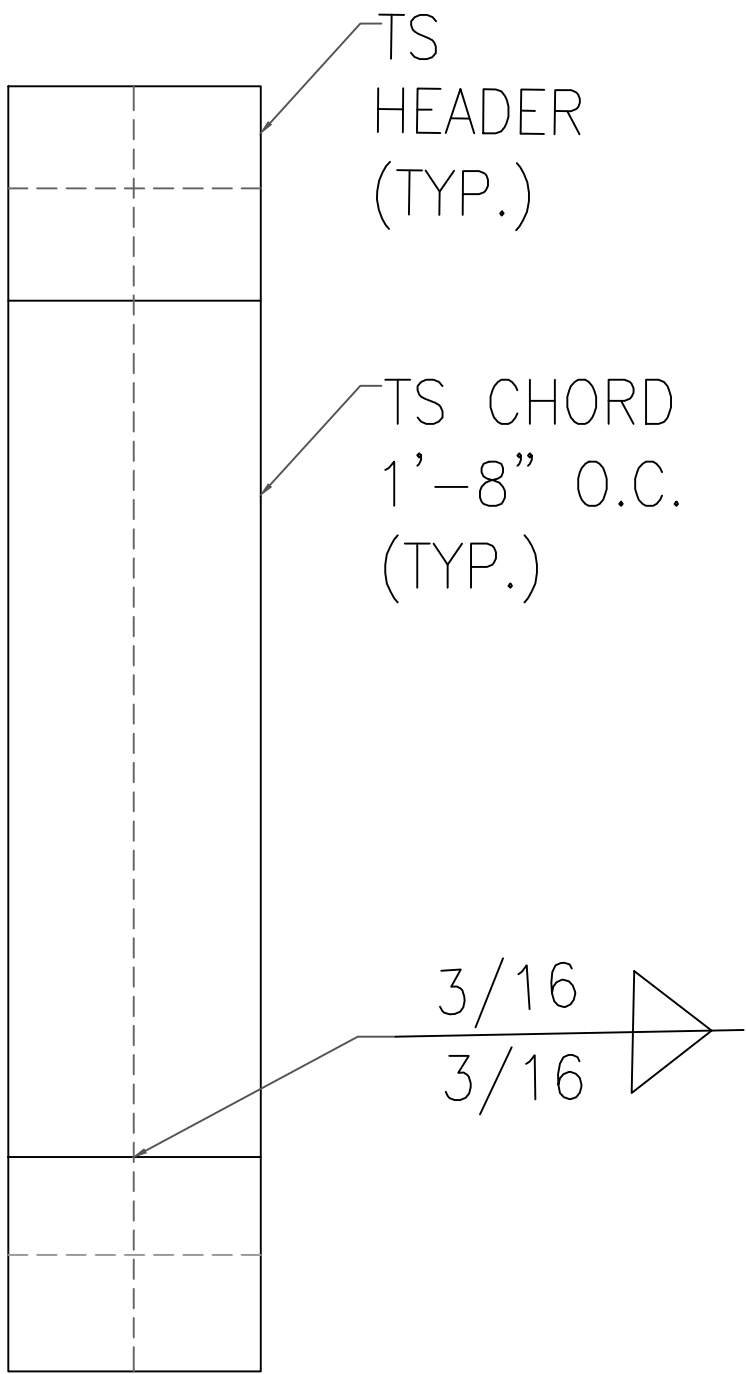
Dr. Ram A. Goel PE # 47431

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BOX EAVE RAFTER VERTICAL
ROOF/SIDING OPTION

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

OPTIONAL HEADER



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



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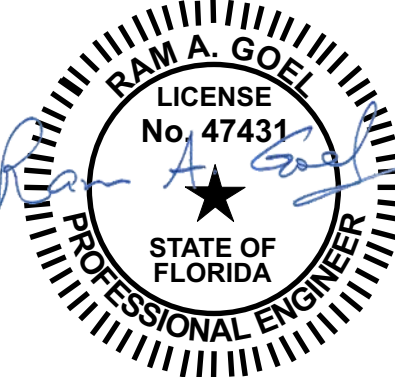
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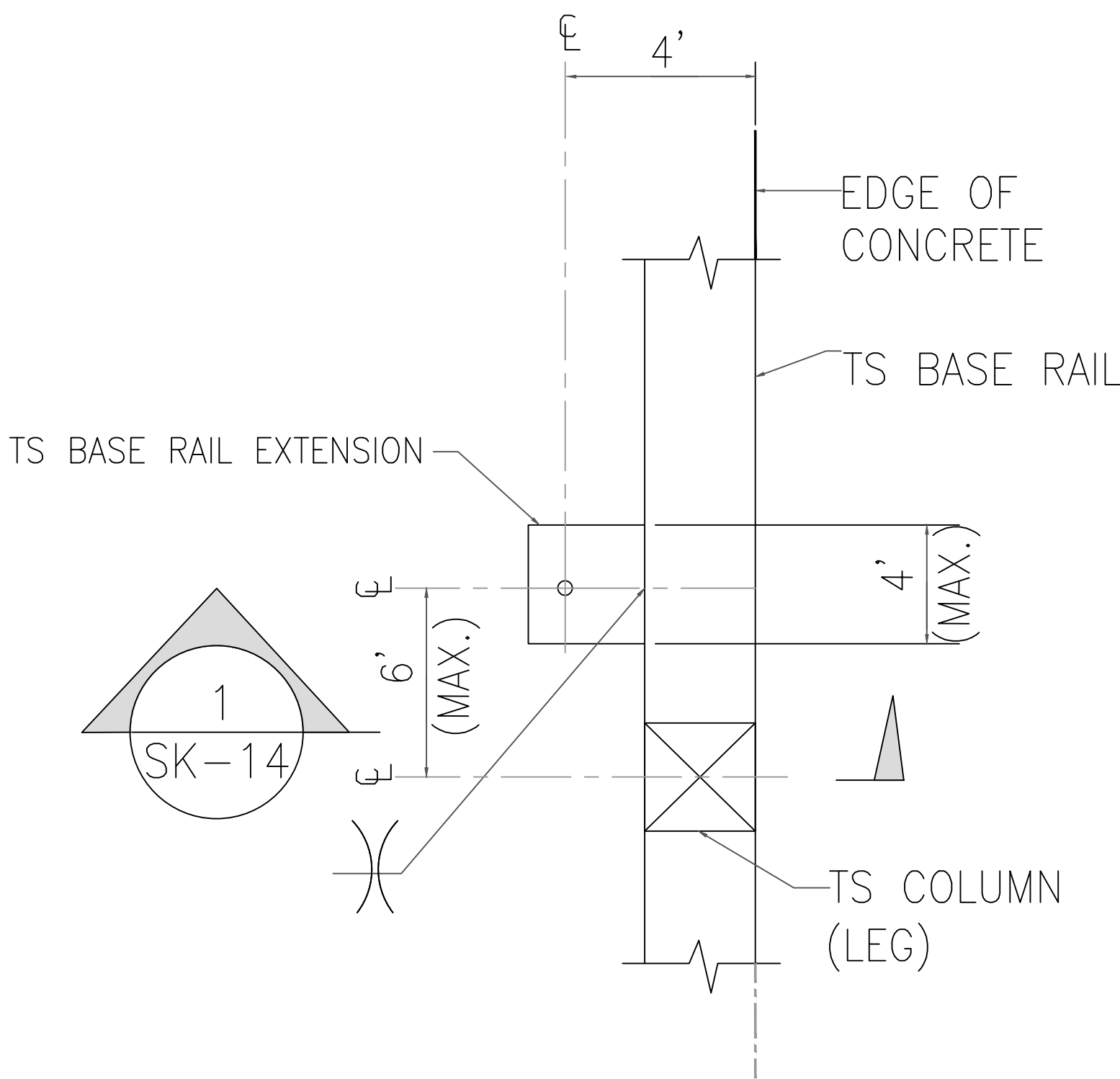
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OPTIONAL HEADER

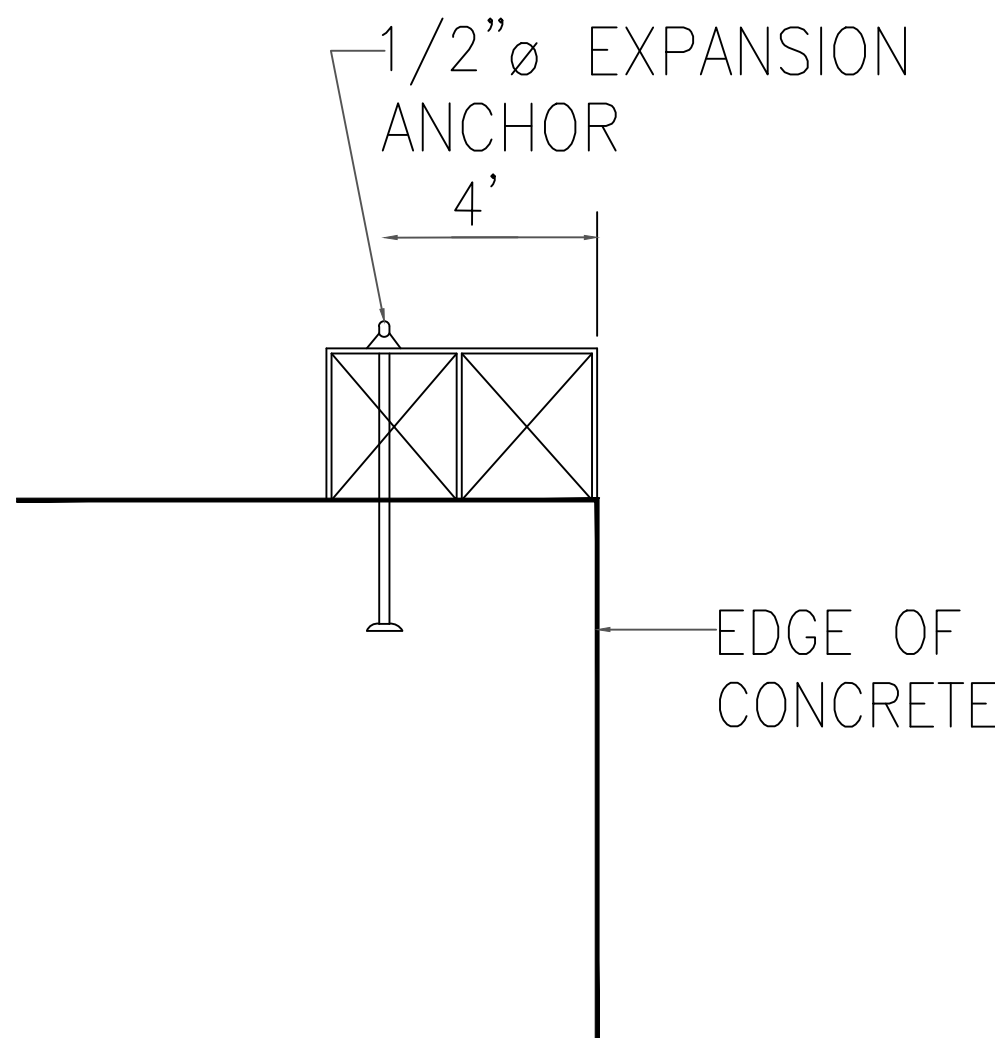
ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060

ADDITIONAL BASE RAIL ANCHORAGE OPTION

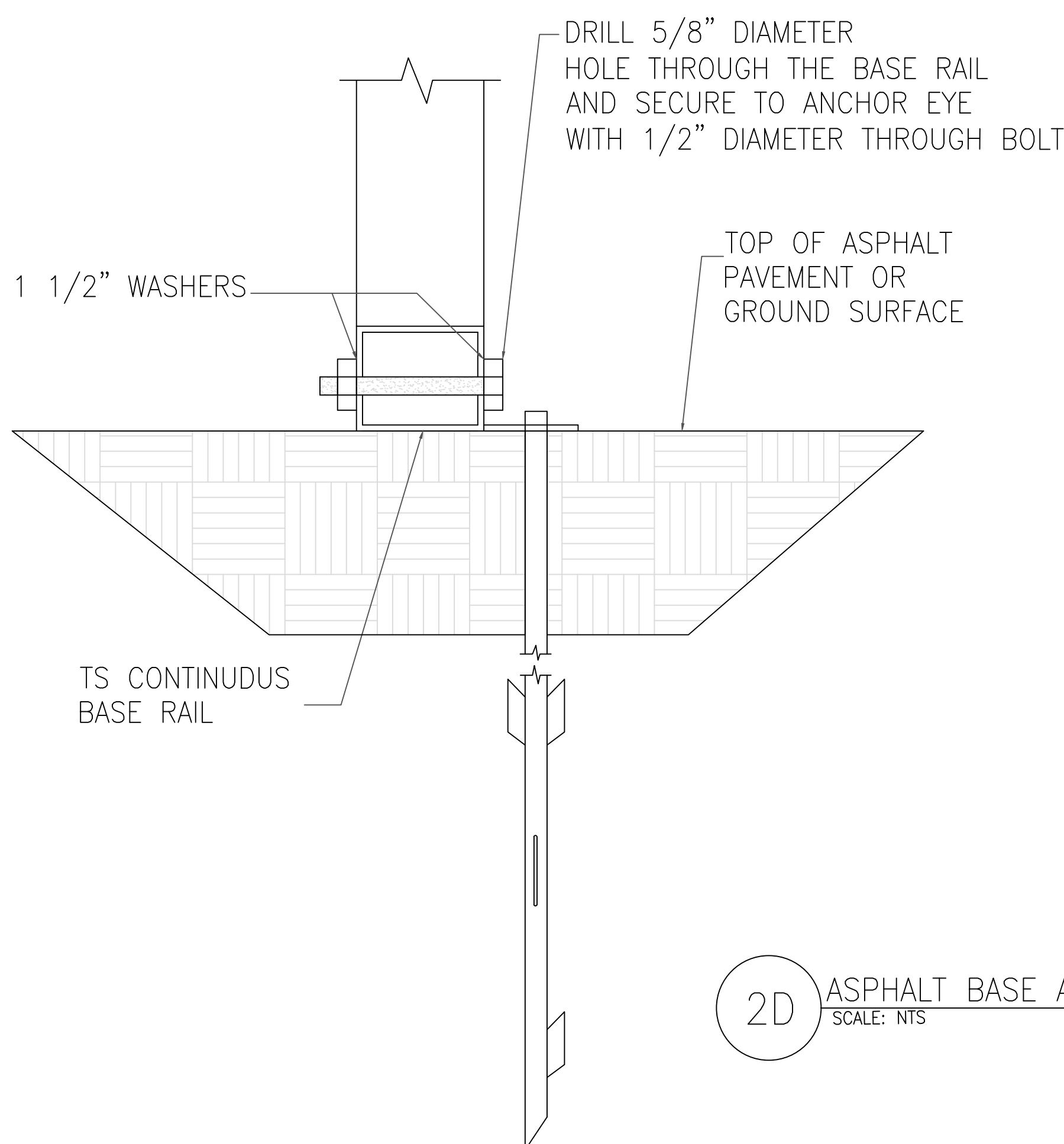
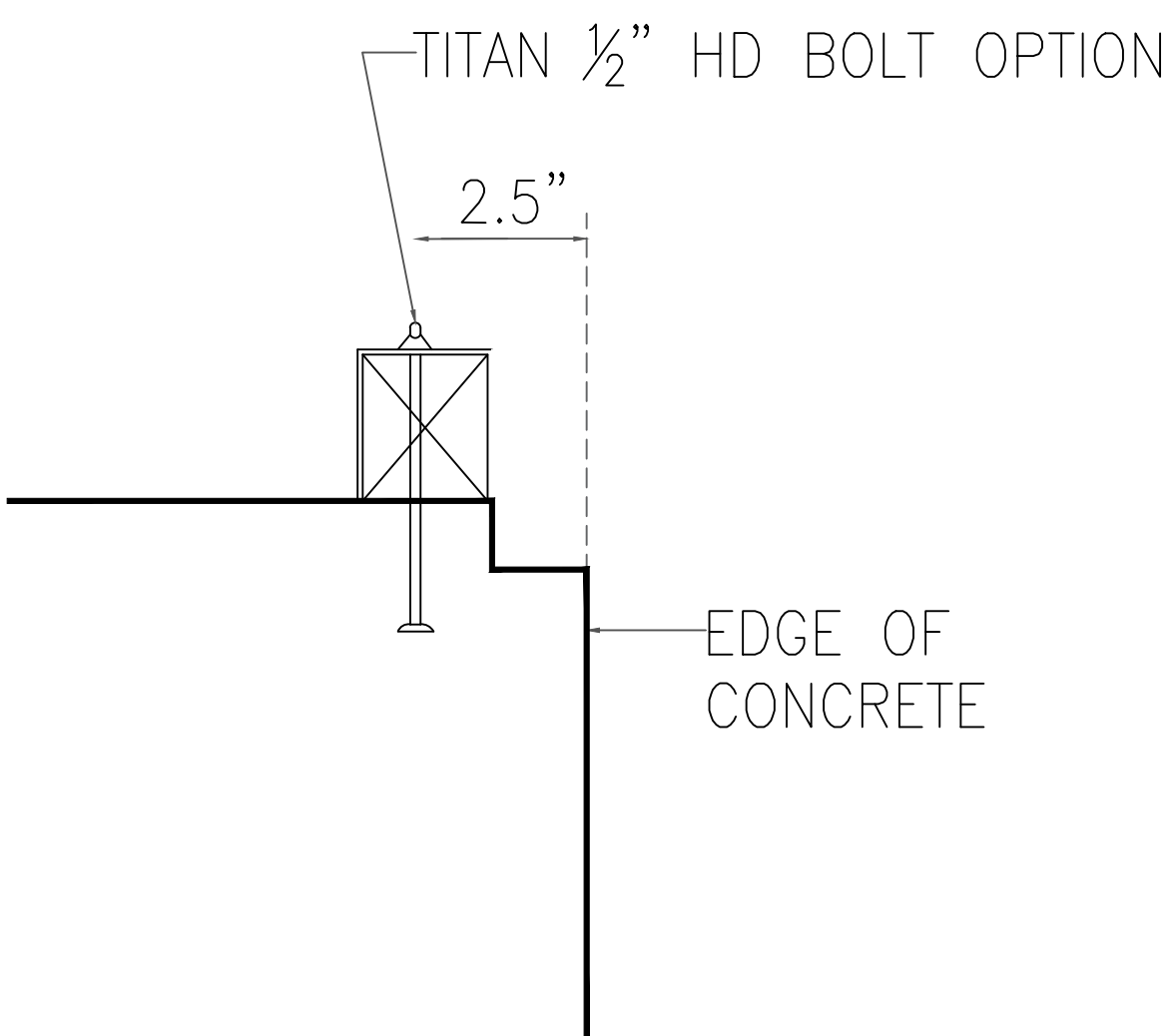


TYPICAL ANCHOR DETAIL WHEN
BASE RAIL IS NEAR EDGE OF CONCRETE

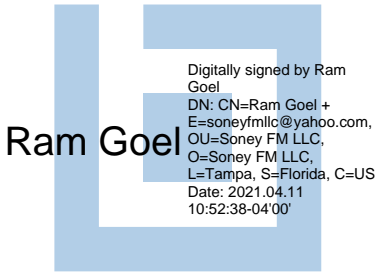
SCALE: N.T.S.



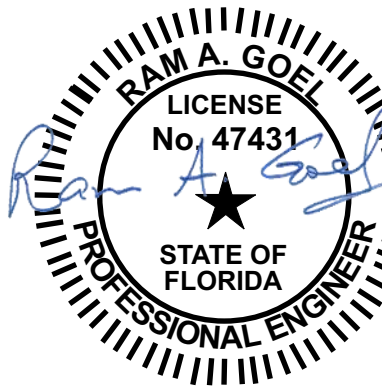
SECTION 1
SCALE: N.T.S. SK-14



2D ASPHALT BASE ANCHORAGE
SCALE: NTS



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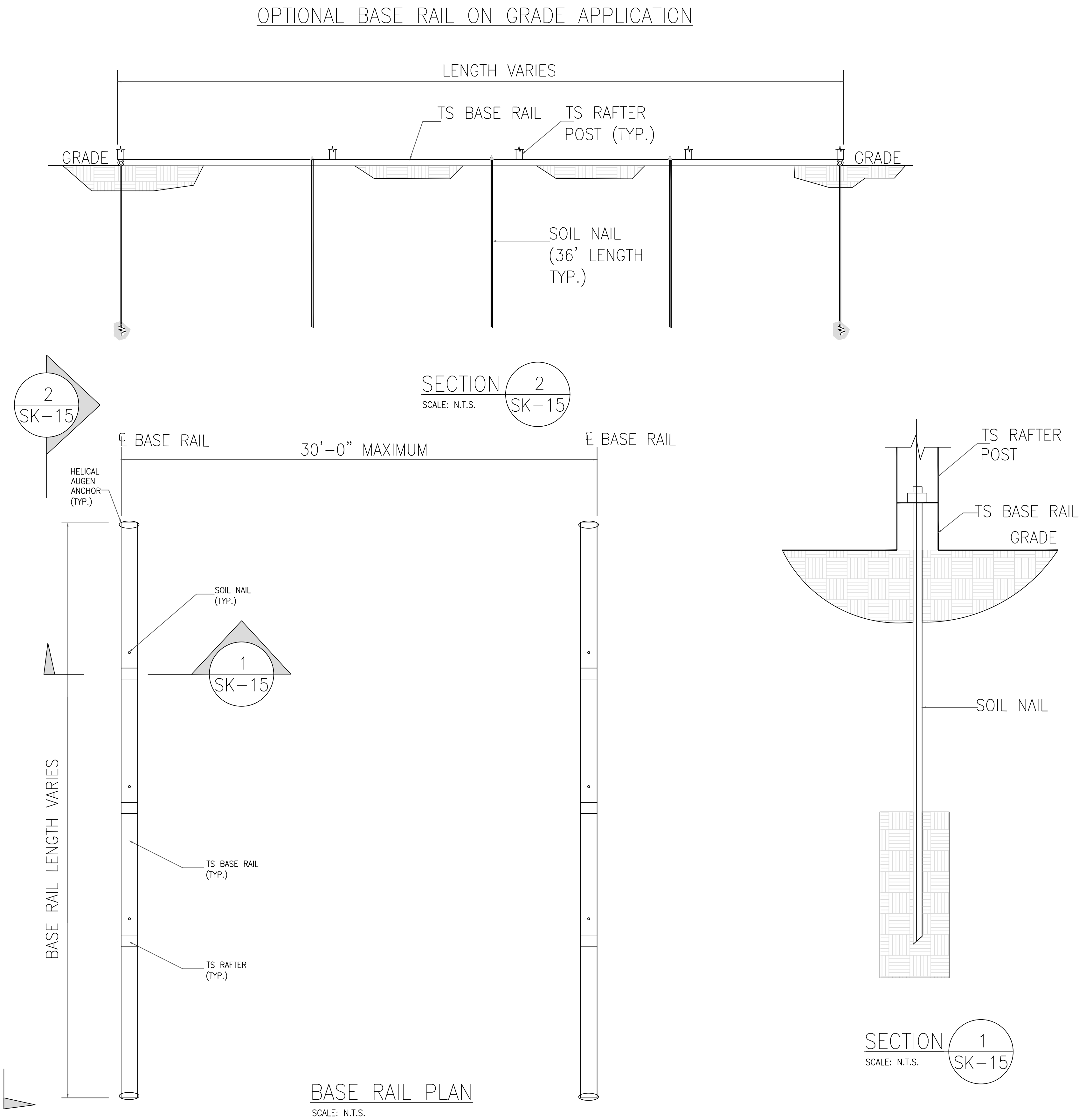
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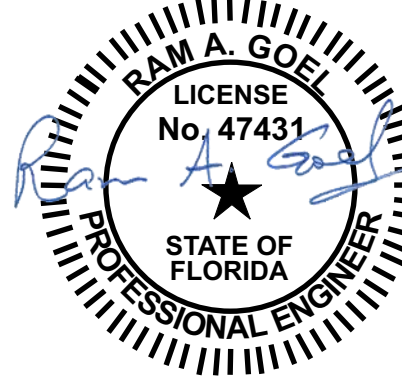
ADDITIONAL BASE RAIL ANCHORAGE OPTION
ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060

30LT OPTION

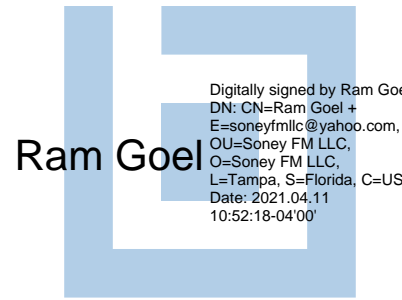
3 OF
CRETE



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



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Richard G. Marceau, P.E. # 64466
PH: 813-388-6090

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

Job # S2080

Drawn By: K.D.

Checked By: S.G.

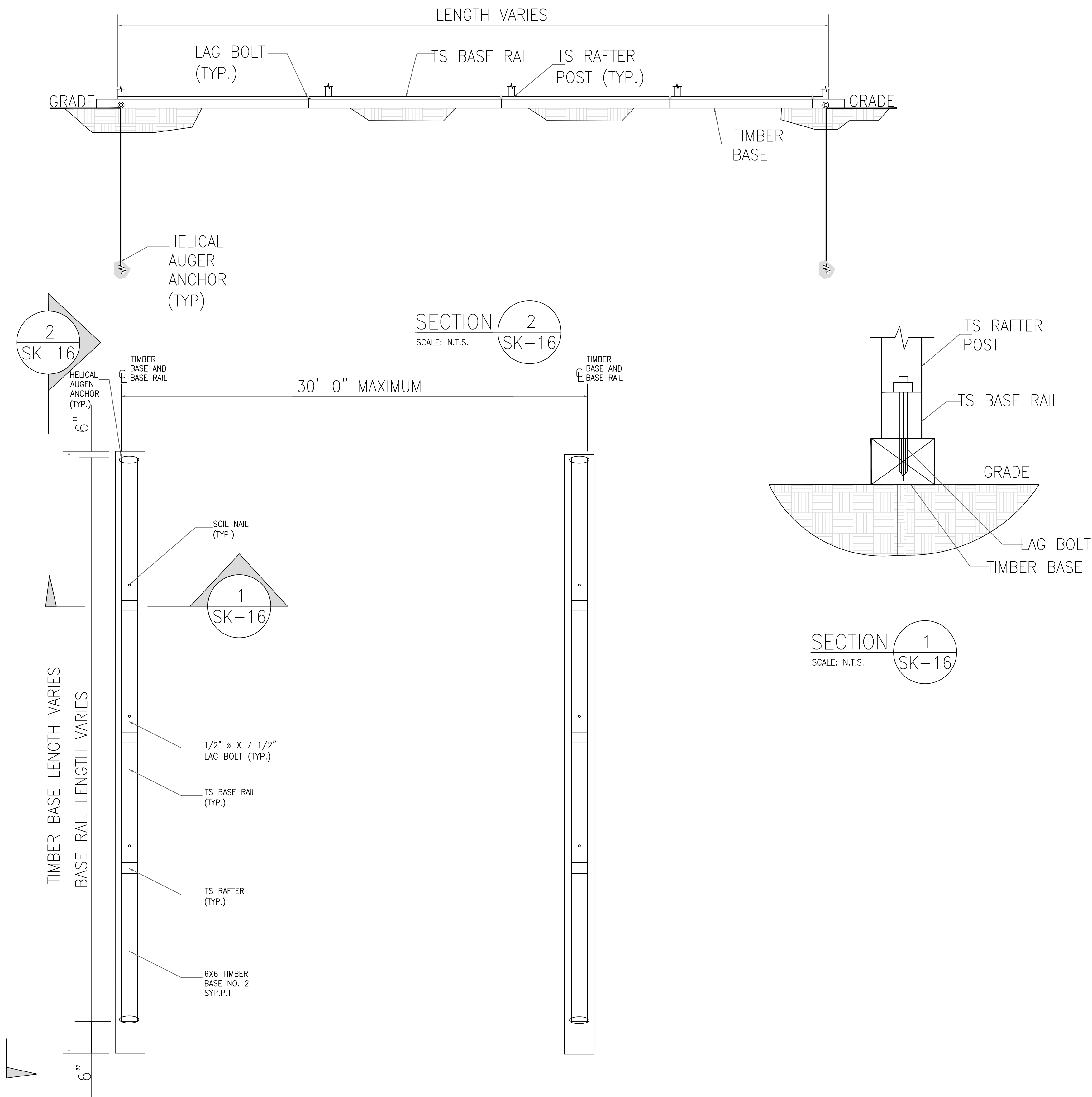
Issue Date: 04-10-21

Revisions:		
No.	Date	Description
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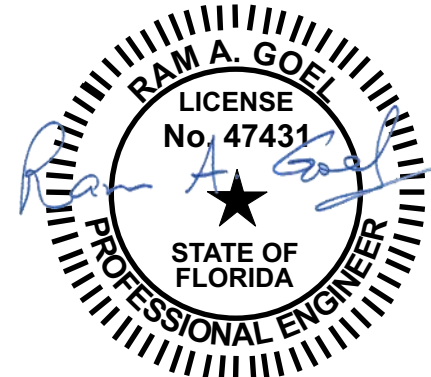
OPTIONAL BASE RAIL ON GRADE APPLICATION

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

OPTIONAL BASE RAIL ON GRADE APPLICATION



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



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TAMPA, FL 33647
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Job # S2080

Drawn By: K.D.

Checked By: S.G.

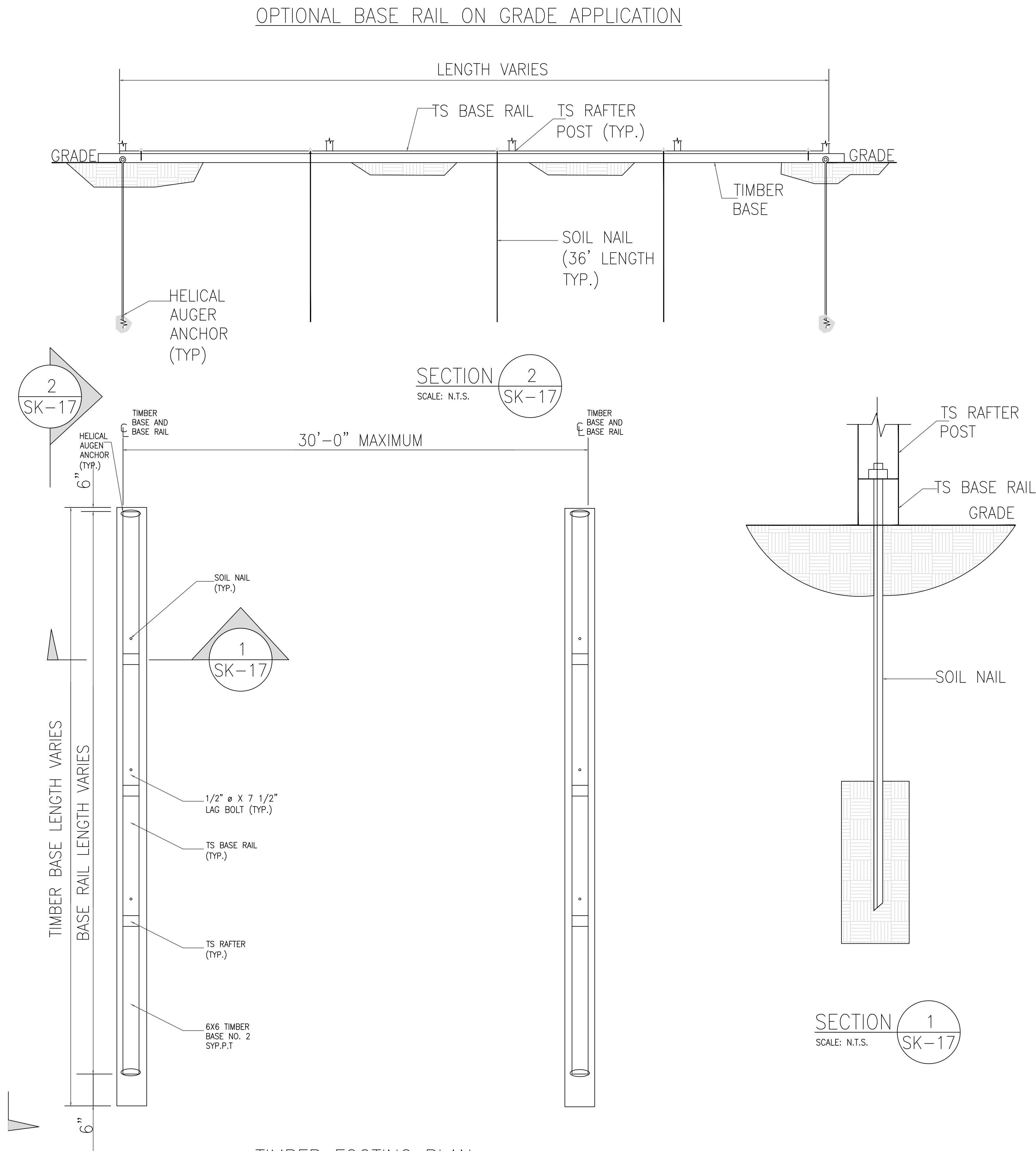
Issue Date: 04-10-21

Revisions:

No.	Date	Description
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OPTIONAL BASE RAIL ON GRADE APPLICATION

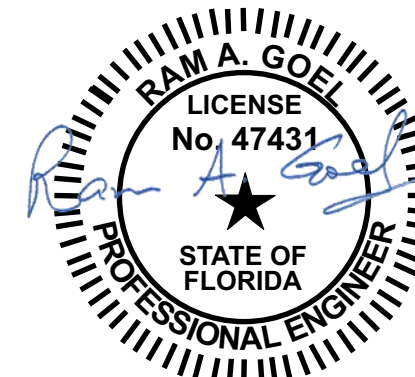
ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060



TIMBER FOOTING PLAN

SCALE: N.T.S.

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



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Ram Goel

Digitally signed by Ram Goel
DN: c=US, o=Elite Metal Manufacturing, LLC, ou=Elite Metal Manufacturing, LLC, email=ramgoel@elite-metal.com, cn=Ram Goel

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Job # S2080

Drawn By: K.D.

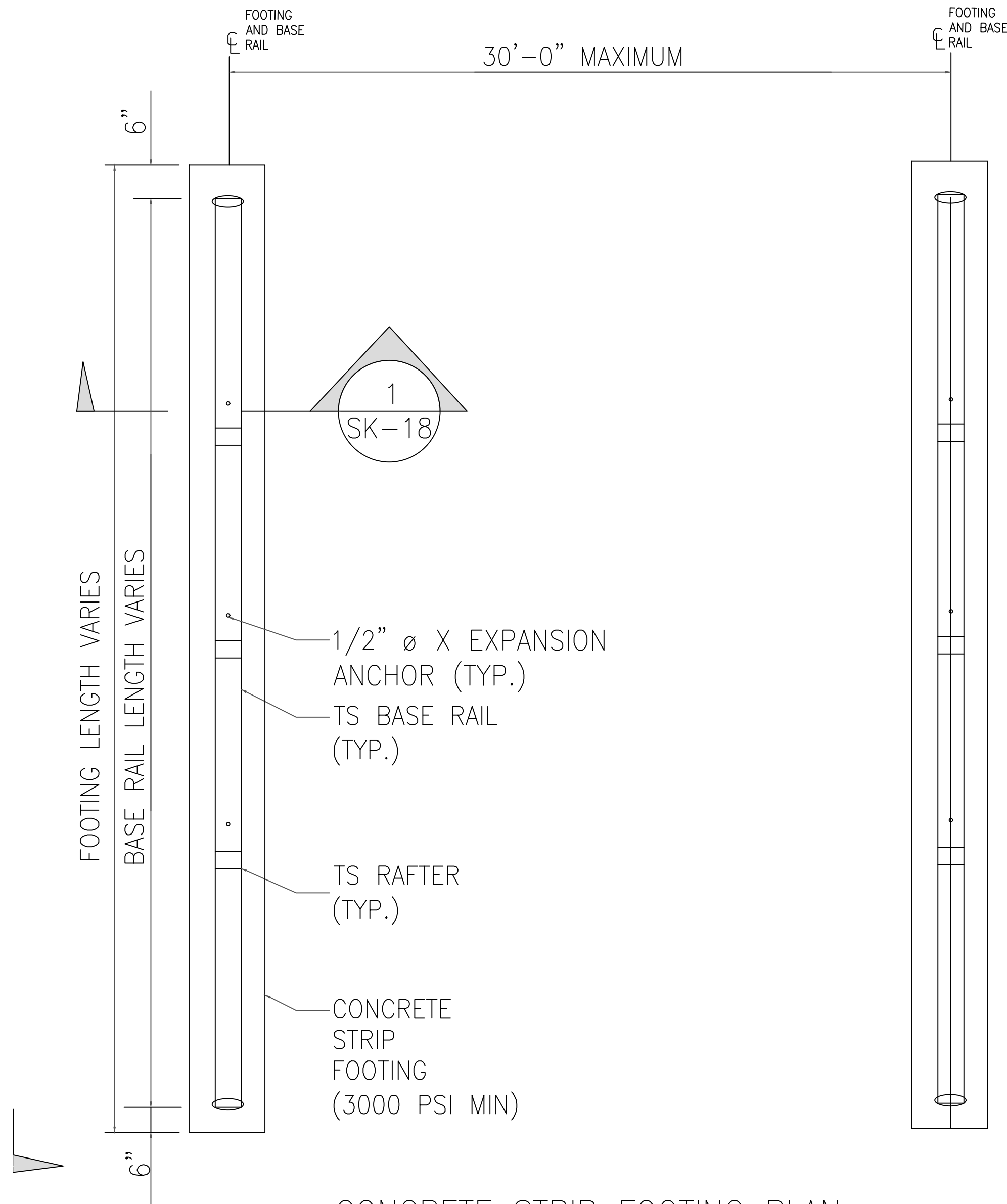
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Issue Date: 04-10-21		
Revisions:		
No.	Date	Description
1	04/10/21	Initial Design
2	04/10/21	Revised Design
3	04/10/21	Final Design
4	04/10/21	As-Built

OPTIONAL BASE RAIL ON GRADE APPLICATION

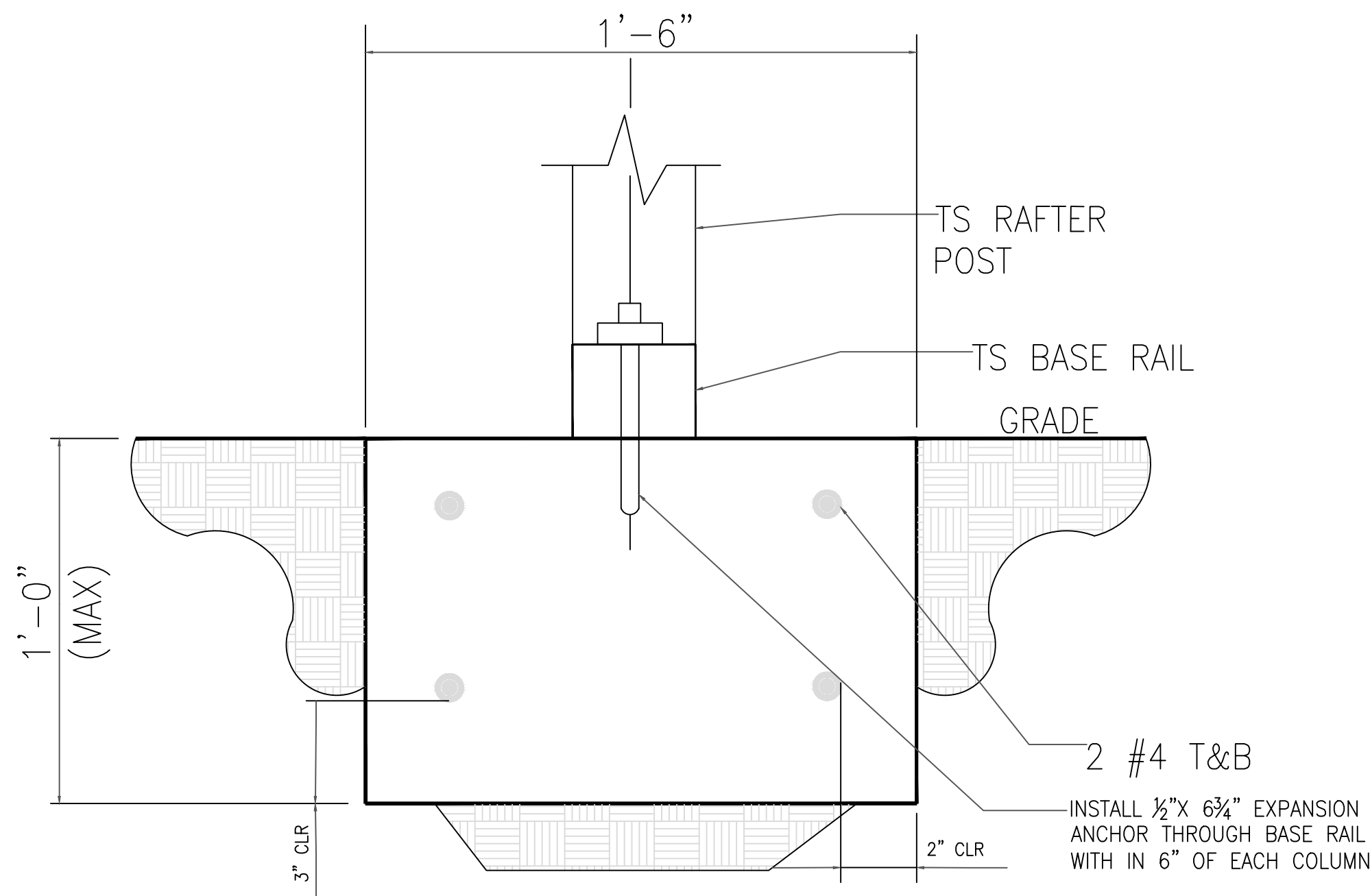
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OPTIONAL CONCRETE STRIP FOOTING



CONCRETE STRIP FOOTING PLAN

SCALE: N.T.S.



SECTION 1 SK-18

SCALE: N.T.S.

COORDINATE WITH LOCAL CODES/ORD.



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Job # S2080

Drawn By: K.D.

Checked By: S.G.

Issue Date: 04-10-21

Revisions:		
No.	Date	Description
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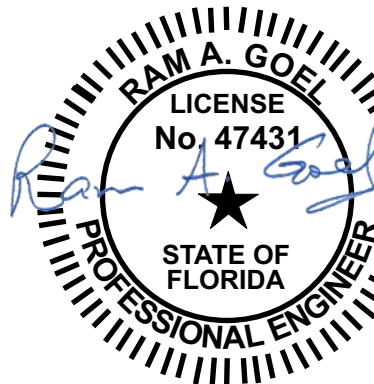
Digitally signed by Ram
Goel
DN: CN=Ram Goel, o=Elite Metal Manufacturing, LLC, ou=Elite Metal Manufacturing, LLC, email=ramgoel@elite-metal.com, c=US
Date: 2021.04.11 16:51:20-0400

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OPTIONAL CONCRETE STRIP FOOTING

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