

TABLE 1 BOW/RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS						
RISK CATEGORY	WIND EXPOSURE CATEGORY	ULTIMATE WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM RAFTER/BOW AND END POST SPACING (FEET)	AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS OR GIRTS (INCHES)	
					INTERIOR BOWS/RAFTERS	END BOWS/RAFTERS
I, II, III, or IV	B, C, or D	115 TO 150	89 TO 116	5.0	6	6
		151 TO 180	117 TO 139	4.0	6	6
NOTES: 1. SPECIFICATIONS APPLICABLE TO 26 OR 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 12,14 OR 15 GAUGE STEEL TUBE BOW FRAMES. 2. FASTENERS CONSIST OF #12-14X3/4" SDFS SELF-DRILLING SCREWS WITH CONTROL SEAL WASHER. 3. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14°(3:12 PITCH). SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY. 4. GROUND ANCHOR REQUIREMENTS ARE 1 @ EACH CORNER AND ONE EVERY OTHER INTERIOR BOW/RAFTER POST LOCATION, AT MAXIMUM OF 10' O.C., AND BOTH SIDES OF OPENINGS WHERE BASE RAIL IS ABSENT. 5. GROUND ANCHORS ARE NOT REQUIRED WITH CONCRETE SLAB CONSTRUCTION.						

WINDOW AND DOOR NOTE

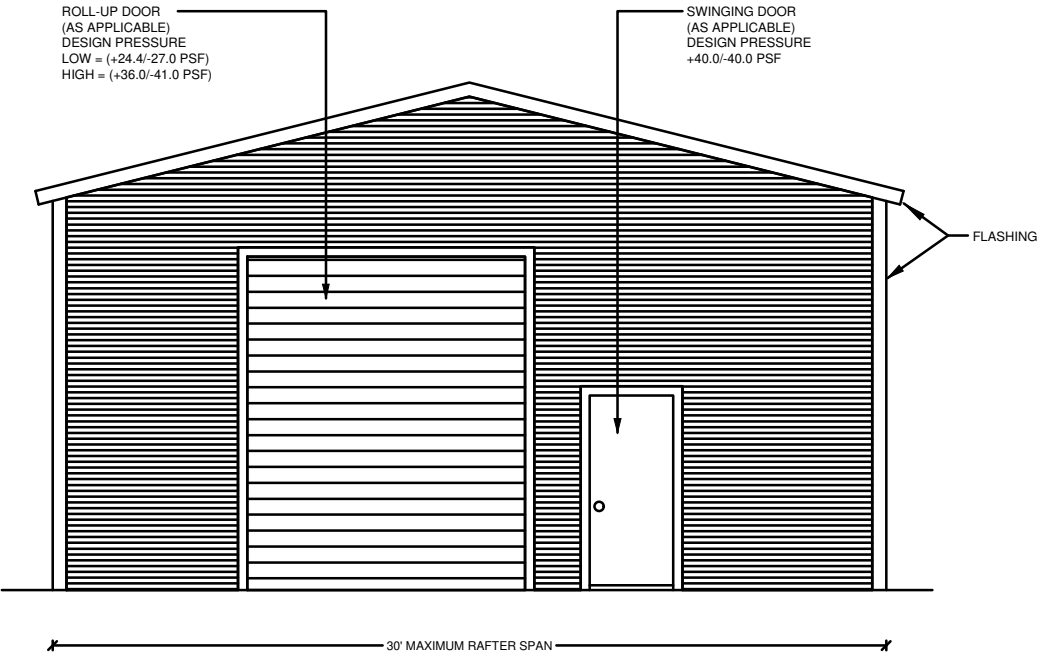
EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND BEAR AN AAMA OR WDMA OR OTHER APPROVED LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION.

ANSI/AAMA/NWDA 101/1S 2/97
THE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 330, STANDARD TEST METHODS FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE.

DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE 7TH EDITION(FBC) 2020 SUPPLEMENT AMENDMENTS 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC AND 2012 IBC.

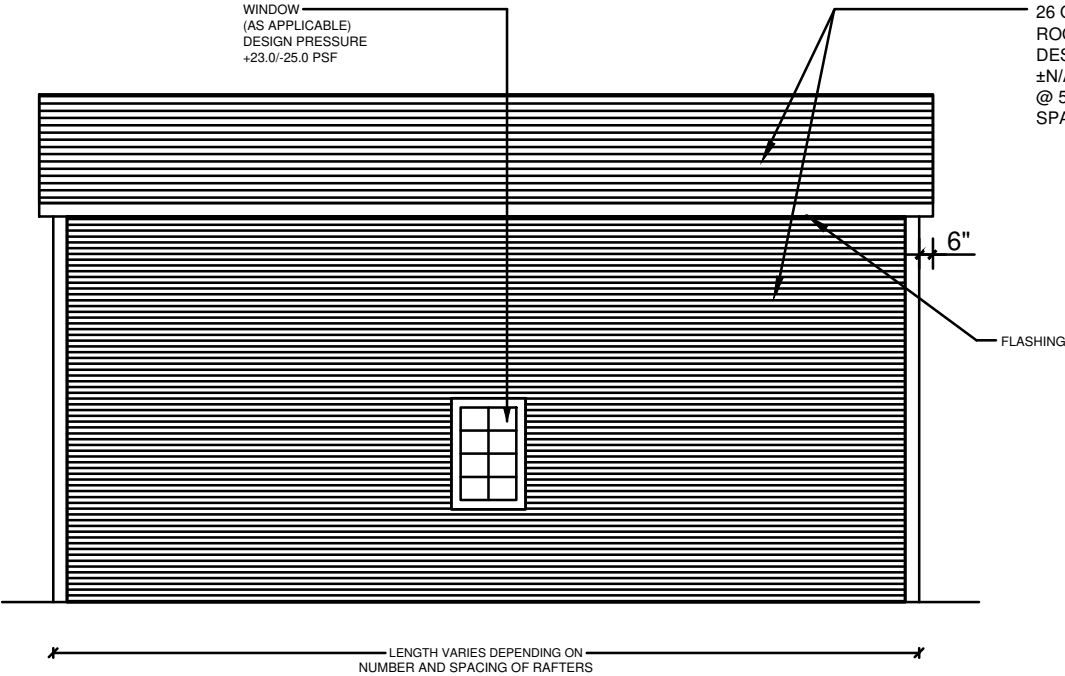
GENERAL NOTES:

- ALL STEEL SHALL BE 50 KSI STEEL.
- FASTEN METAL ROOF AND WALL PANELS TO FRAMING WITH 1/4" X 3/4" SELF DRILLING FASTENERS WITH CONTROL SEAL WASHER @ 6" O.C. AVERAGE.
- ALL FIELD CONNECTIONS SHALL BE #12-14X3/4" SDFS SELF DRILLING SCREWS.
- ALL SHOP CONNECTIONS SHALL BE WELDED.
- CONCRETE EXPANSION ANCHORS SHALL BE WEJ-IT ANKR-TITE MODEL AT 1252, OR SLEEVE ANCHOR MODEL HSA 1260, OR EQUIVALENT. GROUND ANCHOR REQUIREMENTS ARE 1@ EACH CORNER & ONE EVERY OTHER INTERIOR RAFTER POST LOCATION. AT A MAXIMUM 10'-0" O.C., AND BOTH SIDES OF OPENINGS WHERE BASE RAIL IS ABSENT. GROUND ANCHORS ARE NOT REQUIRED FOR CONCRETE FOOTING AND/OR CONCRETE SLAB CONSTRUCTION.
- POST/RAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS.



TYPICAL END ELEVATION-HORIZONTAL ROOF

SCALE: NOT TO SCALE



TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

SCALE: NOT TO SCALE

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RAM A. GOEL, P.E. # 47431

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F.P.E. 47431.

SONEY FM LLC
CORY LAKE PROFESSIONAL CENTER
10329 CROSS CREEK BLVD., SUITE P
TAMPA, FL 33647
Ph: 727-420-4796
Fax: (813) 972-2846
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Job # 2173

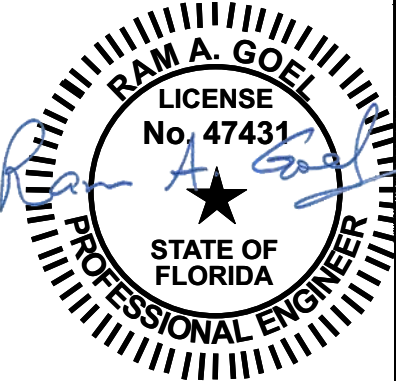
Drawn By: S.K.

Checked By: R.G.

Issue Date:08-18-21

Revisions:		
No.	Date	Description
1	11	
2	11	
3	11	
4	11	

Digitally signed by Ram Goel
DN:
E=Soneyfmllc@yahoo.com,
CN=Ram Goel,
OU=ENGINEERING,
O=Soney FM LLC,
L=Tampa, S=Florida, C=US
Date: 2021.10.11
14:14:50-04'00'



THE FOLLOWING IS COMPLIANT TO THE FLORIDA BUILDING CODE 2020, 7TH EDITION AND ASCE 7-16 FOR WIND LOADS OF 180 MPH

PREFABRICATED UTILITY STRUCTURE

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

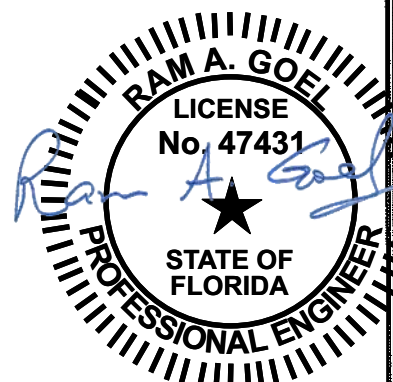
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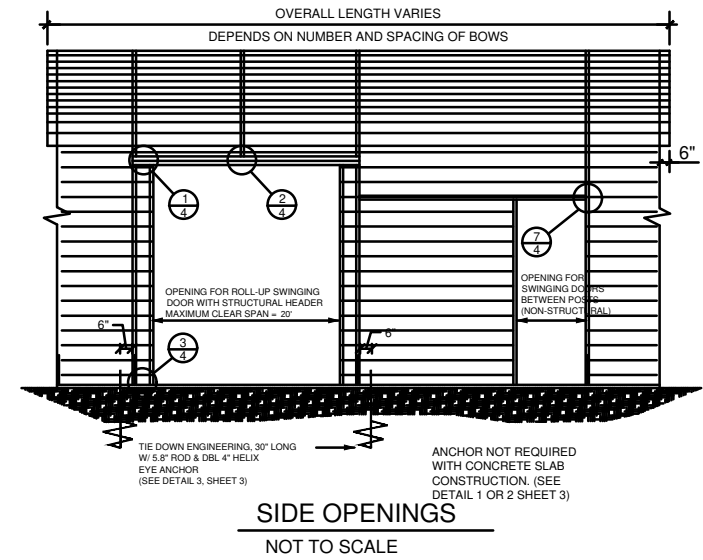
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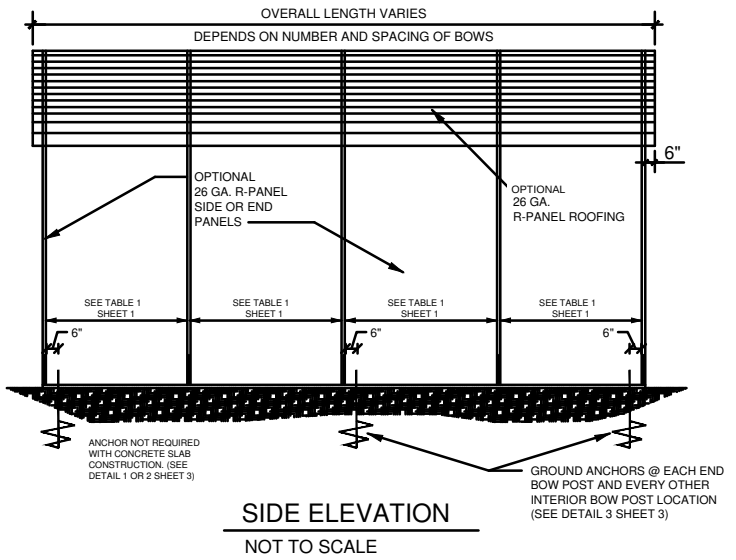
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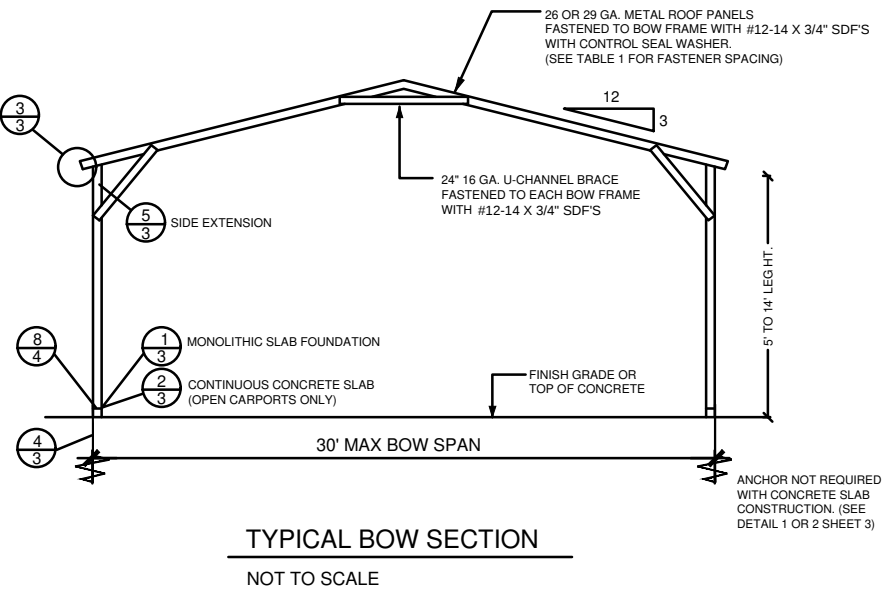
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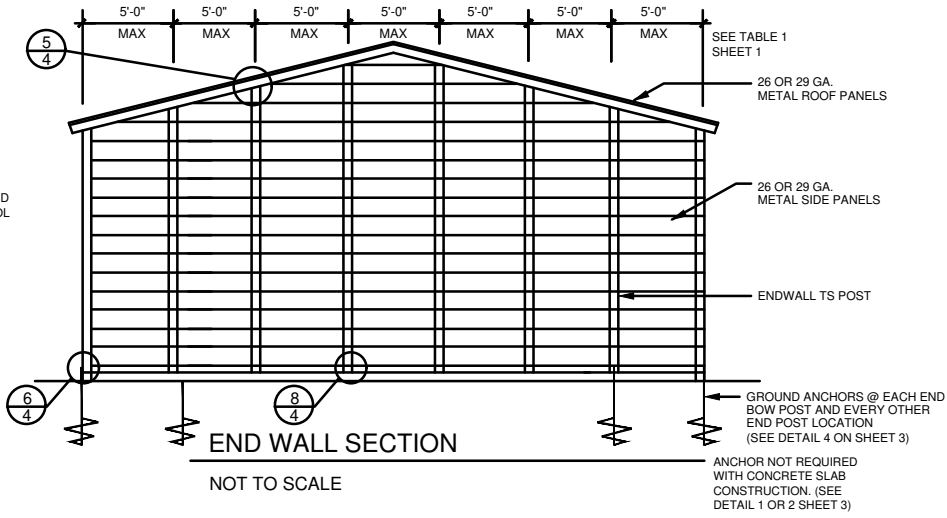
SIDE OPENINGS
NOT TO SCALE



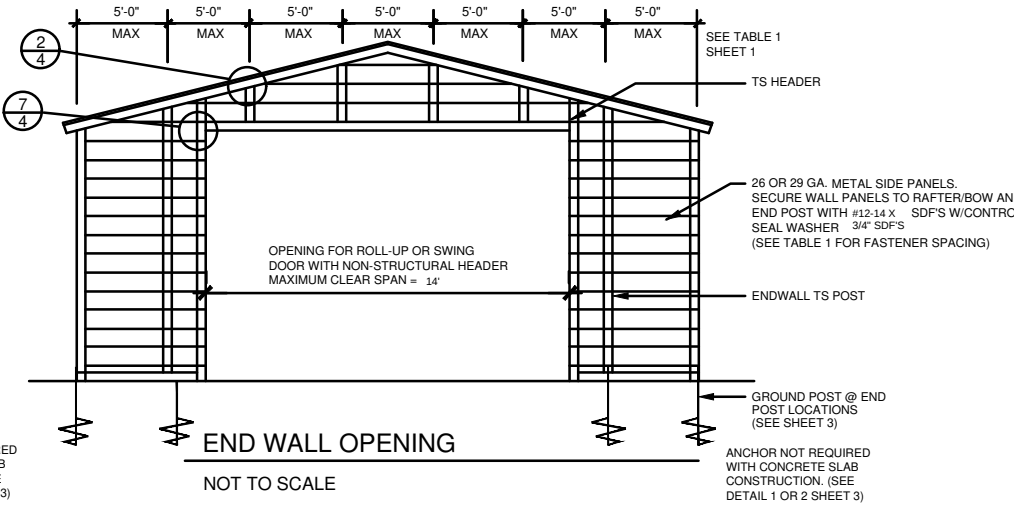
SIDE ELEVATION
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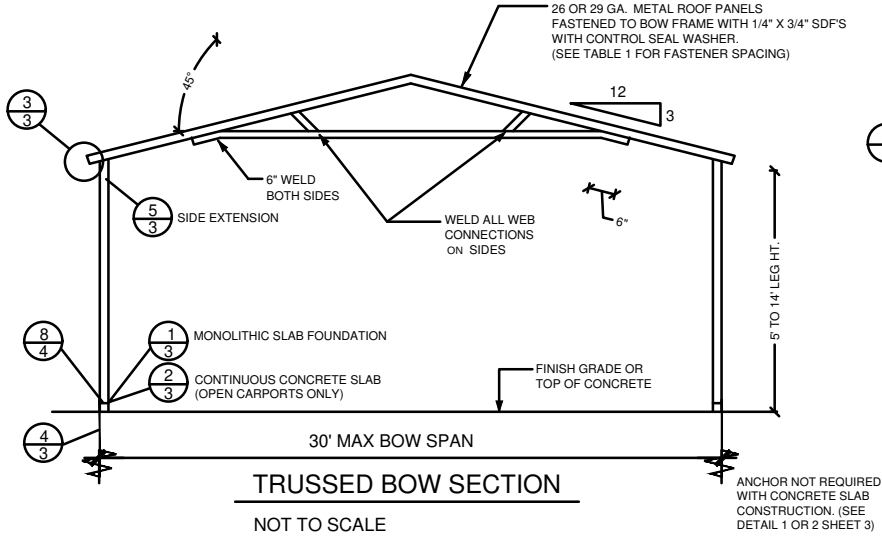
TYPICAL BOW SECTION
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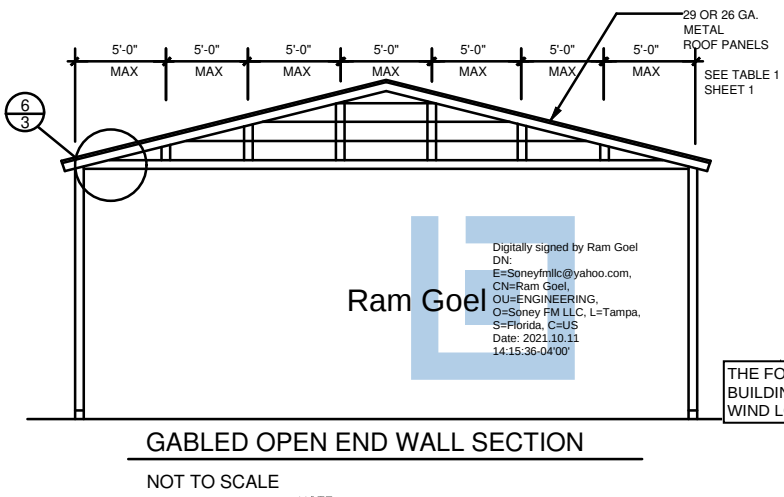
END WALL SECTION
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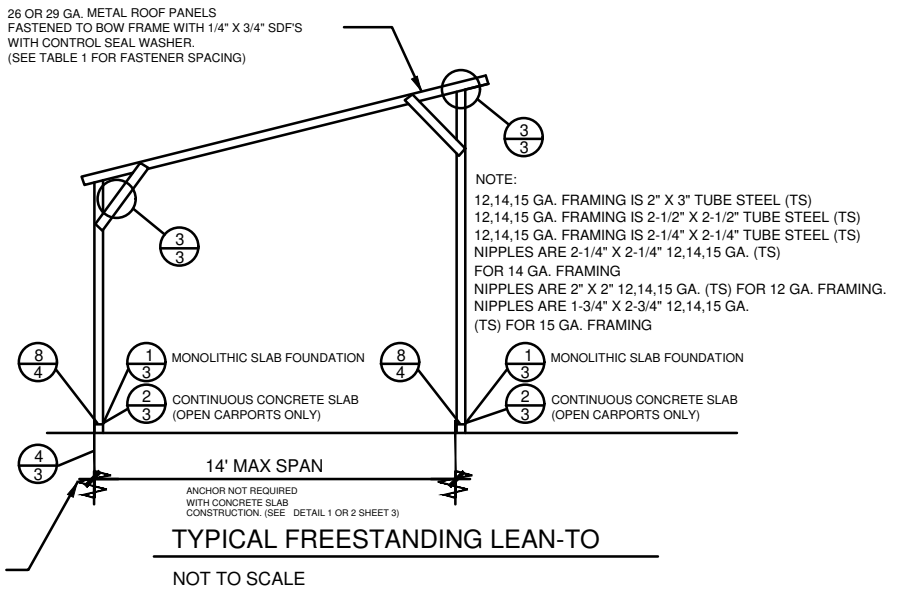
END WALL OPENING
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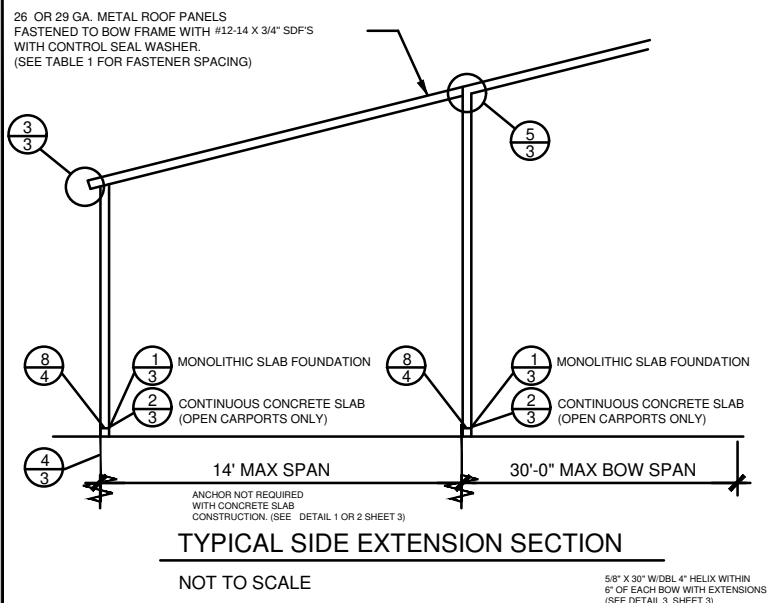
TRUSSED BOW SECTION
NOT TO SCALE



GABLED OPEN END WALL SECTION
NOT TO SCALE



TYPICAL FREESTANDING LEAN-TO
NOT TO SCALE



TYPICAL SIDE EXTENSION SECTION
NOT TO SCALE

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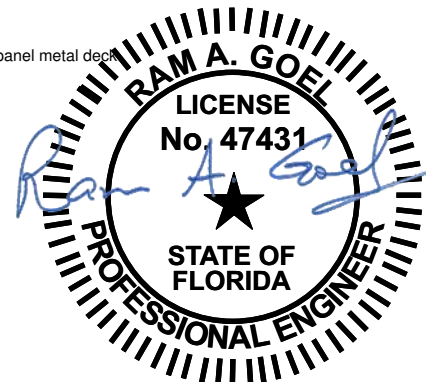
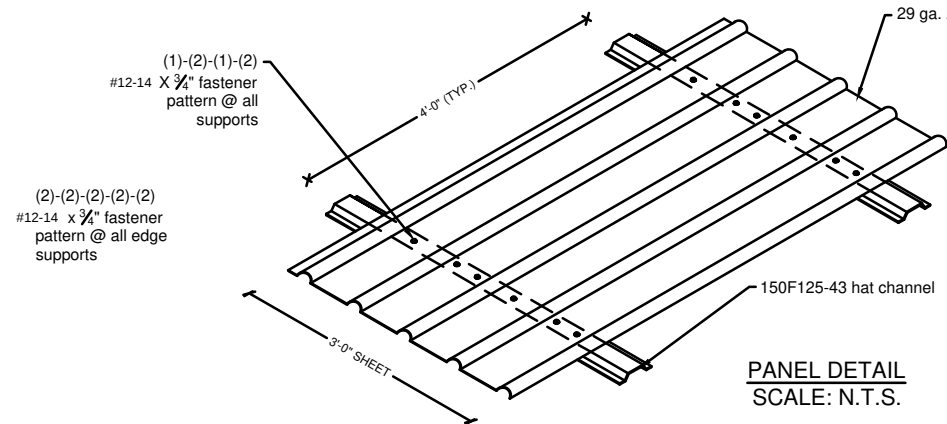
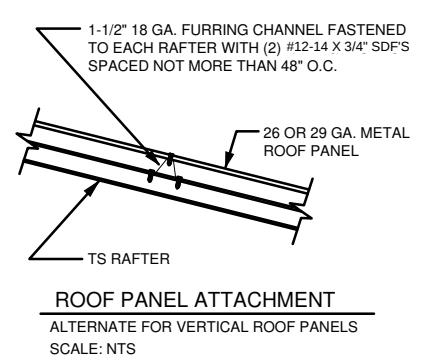
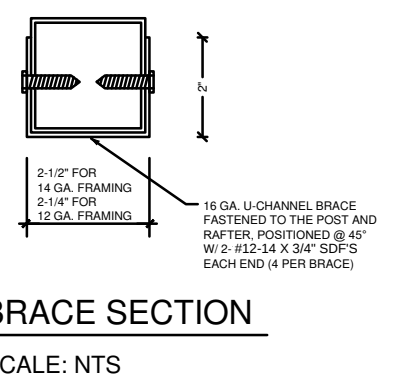
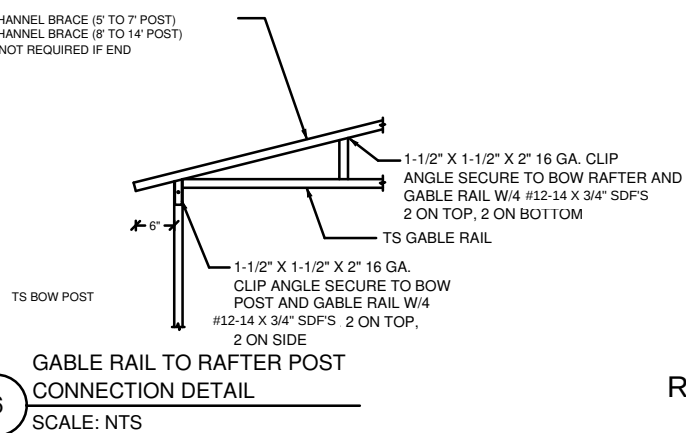
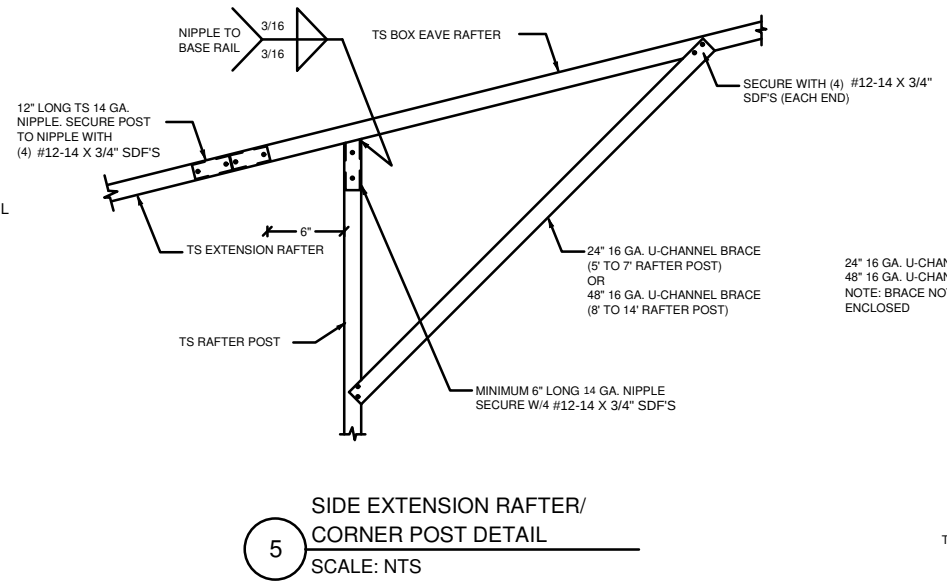
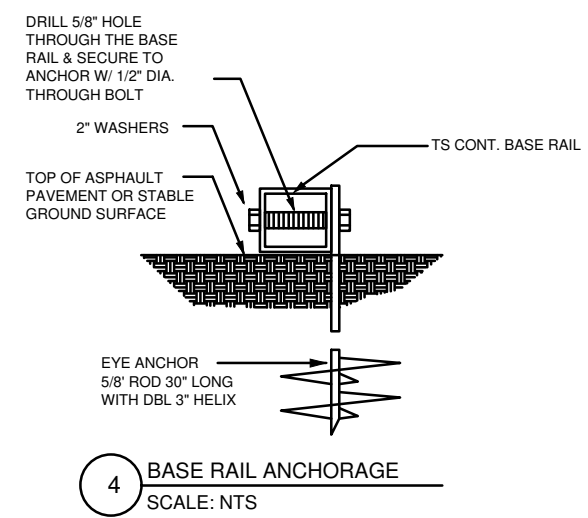
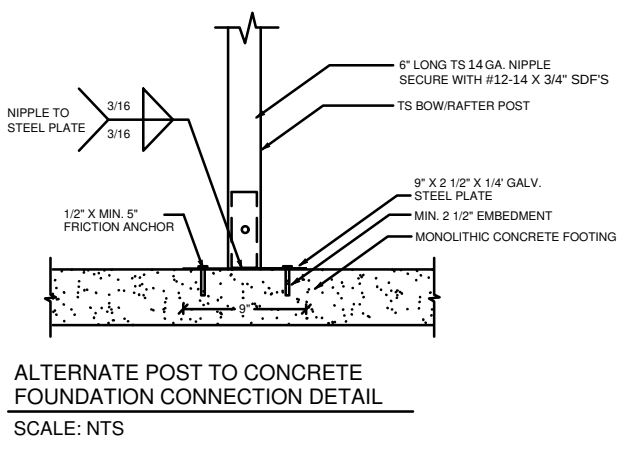
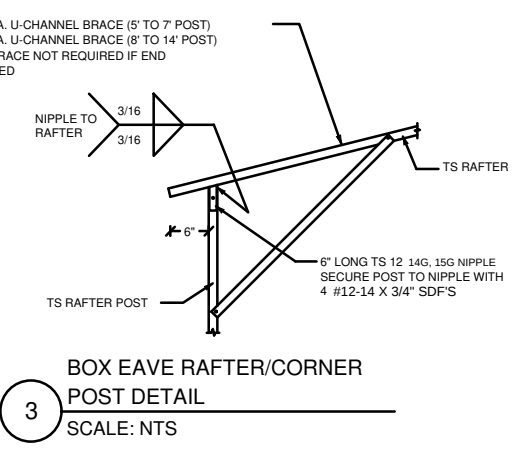
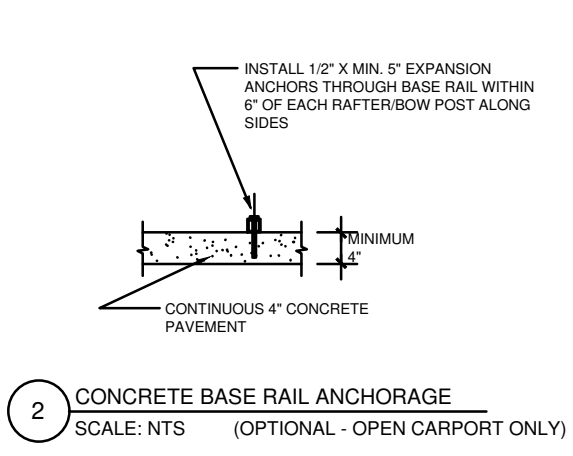
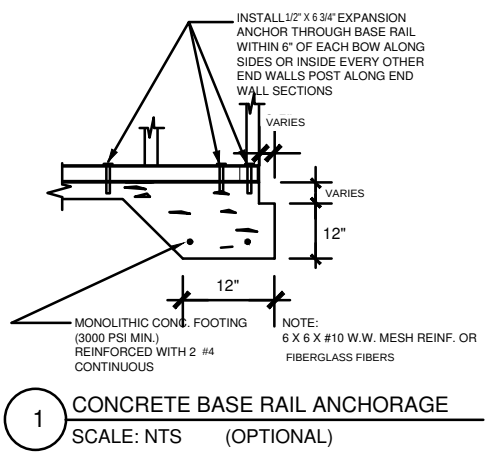
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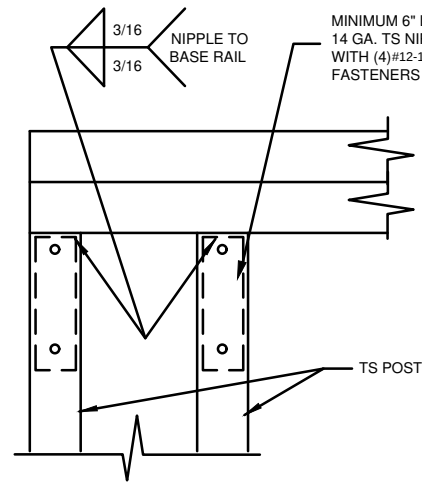
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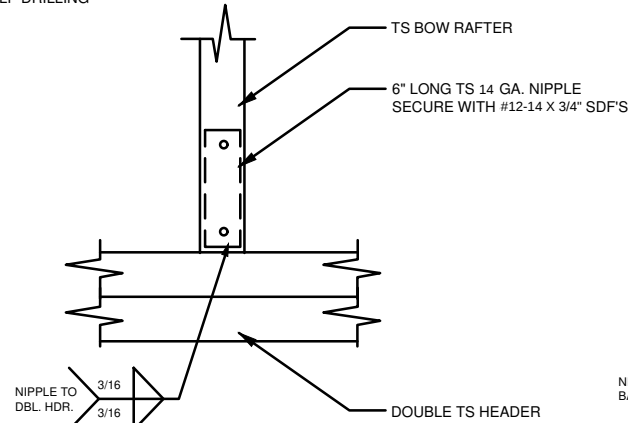
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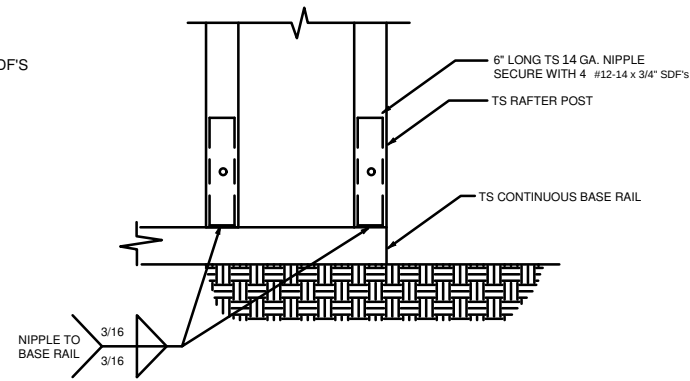
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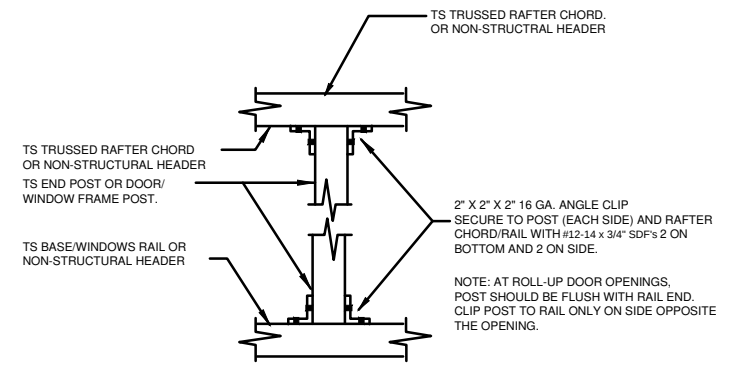
1 RAFTER POST/DBL. HEADER DETAIL
SCALE: NTS



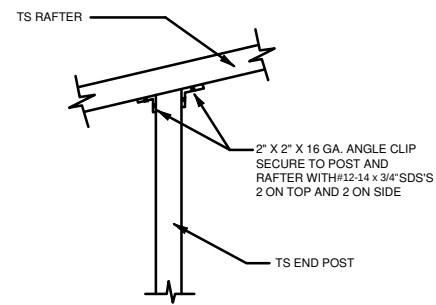
2 RAFTER POST/BASE
BASE RAIL CONNECTION DETAIL
SCALE: NTS



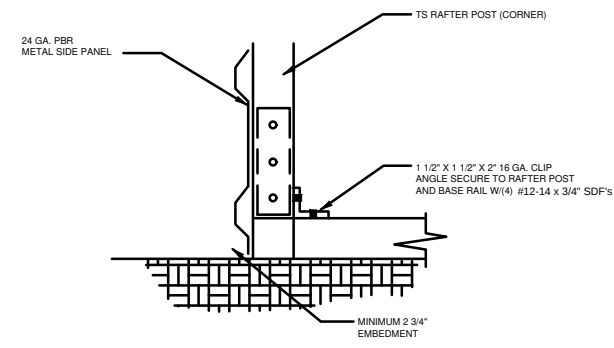
3 RAFTER POST/BASE
BASE RAIL CONNECTION DETAIL
SCALE: NTS



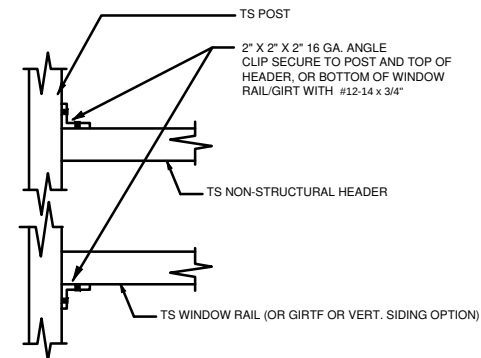
4 POST TO RAIL, TRUSS CHORD, OR
NON-STRUCTURAL HEADER CONN. DETAIL
SCALE: NTS



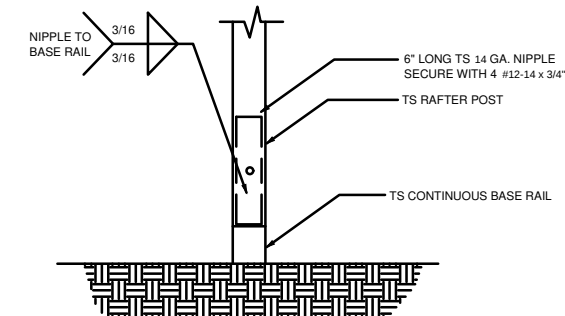
5 END POST/RAFTER CONN. DETAIL
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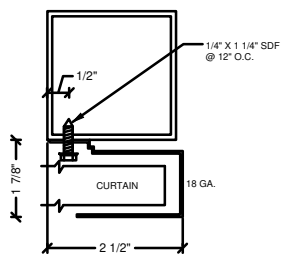
6 END POST/BASE RAIL CONN.
SCALE: NTS



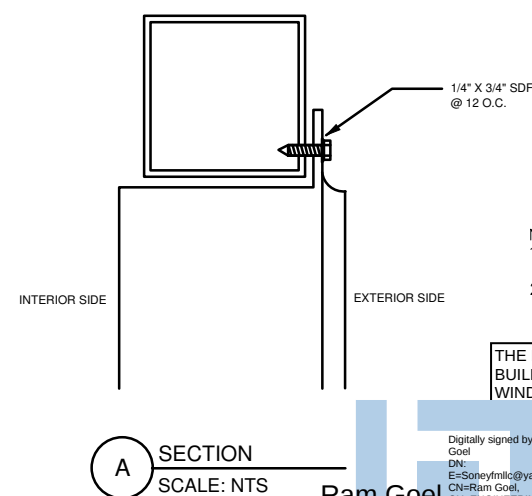
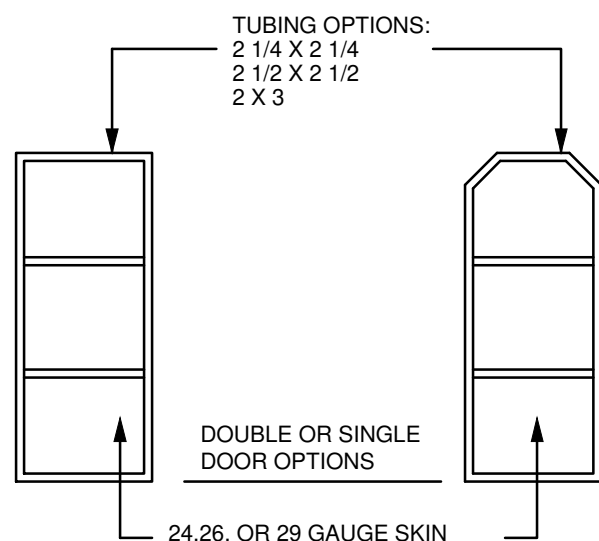
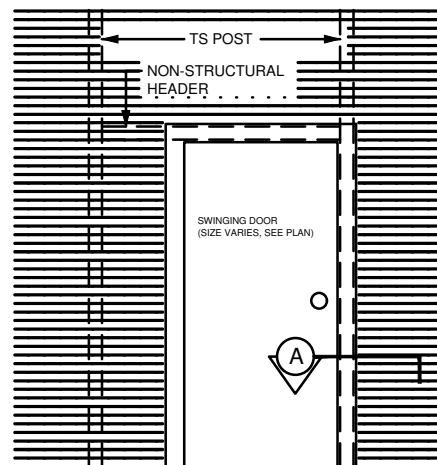
7 NON-STRUCTURAL HEADER, WINDOW
RAIL, OR GIRT TO POST CONN. DETAIL
SCALE: NTS



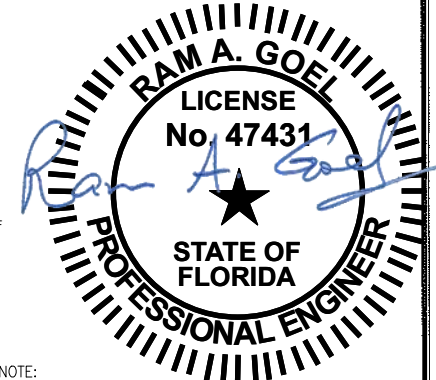
8 POST/BASE RAIL CONN. DETAIL
SCALE: NTS



SECTION THROUGH ROLL UP
DOOR HEADER
SCALE: NTS
CURTAIN 24 GA. PBR WITH BAKED ON EPOXY
PRIMER & POLYESTER TOP COAT.



A SECTION
SCALE: NTS



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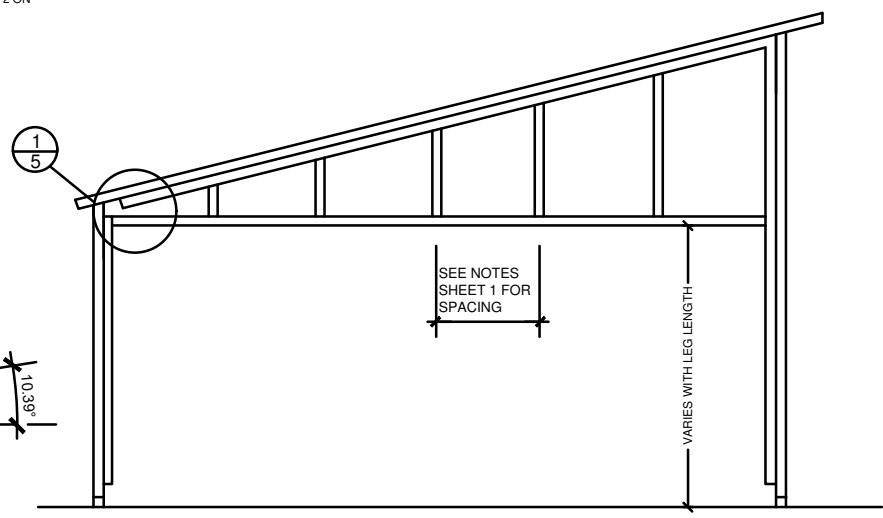
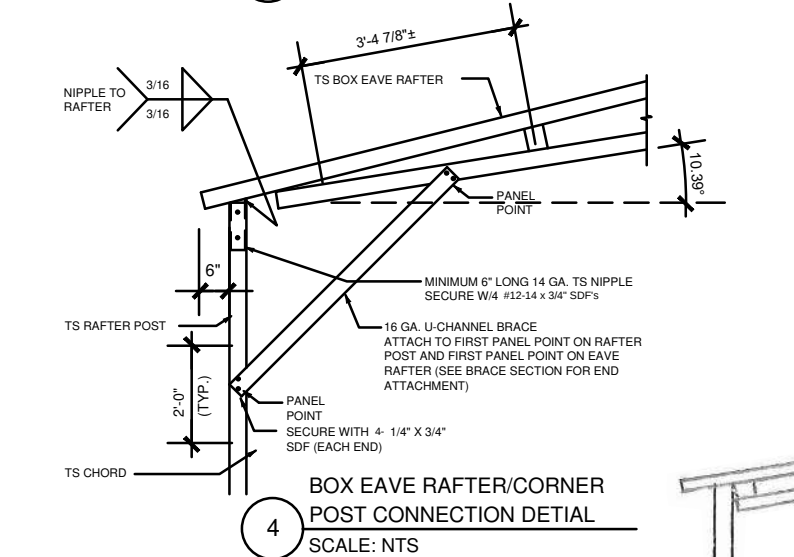
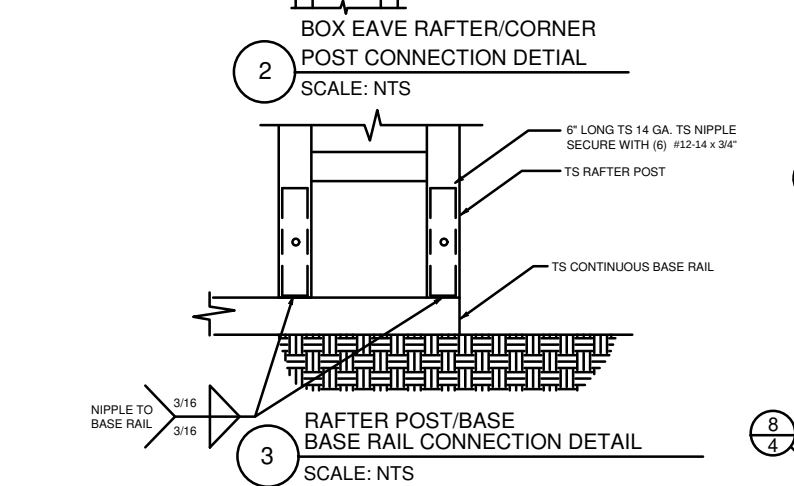
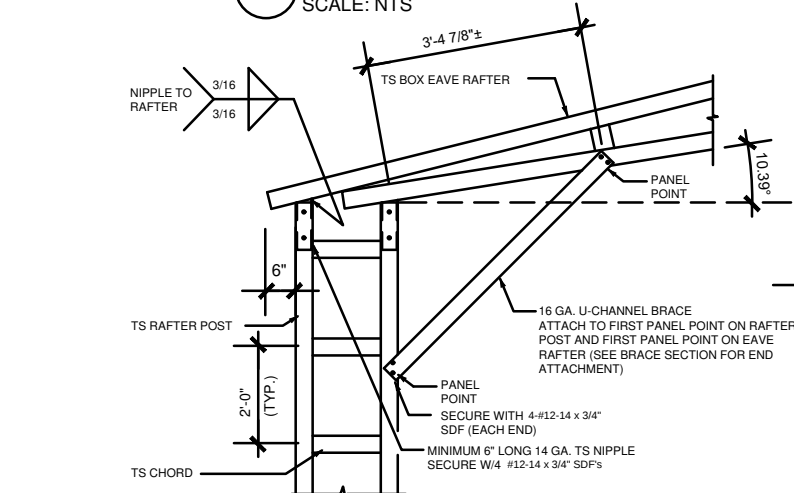
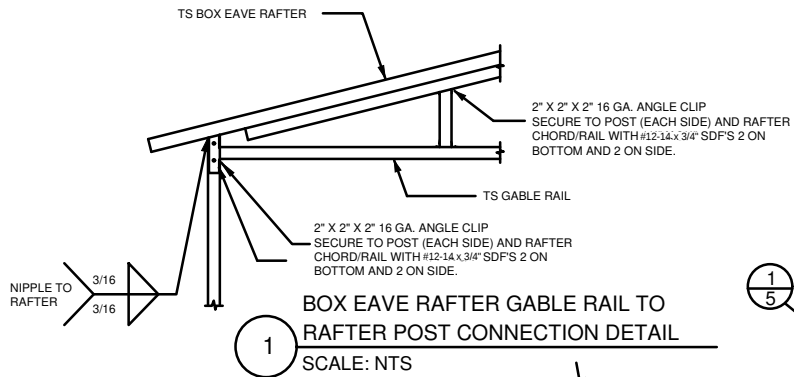
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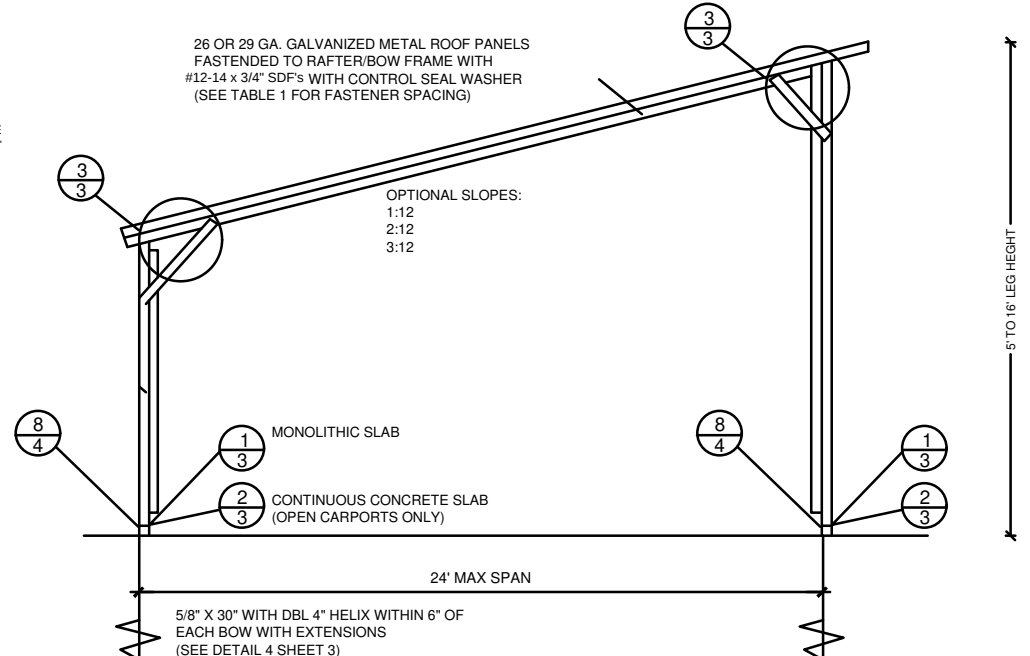
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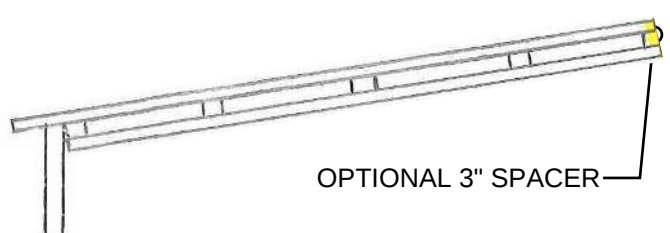
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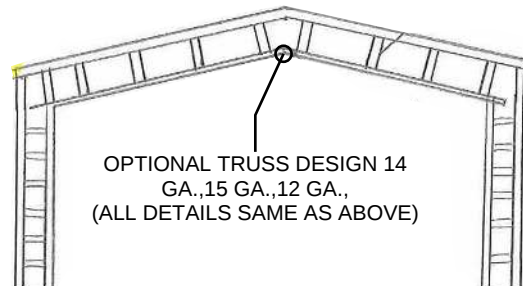
TYPICAL BOX EAVE RAFTER GABLE END FRAMING SECTION
NOT TO SCALE



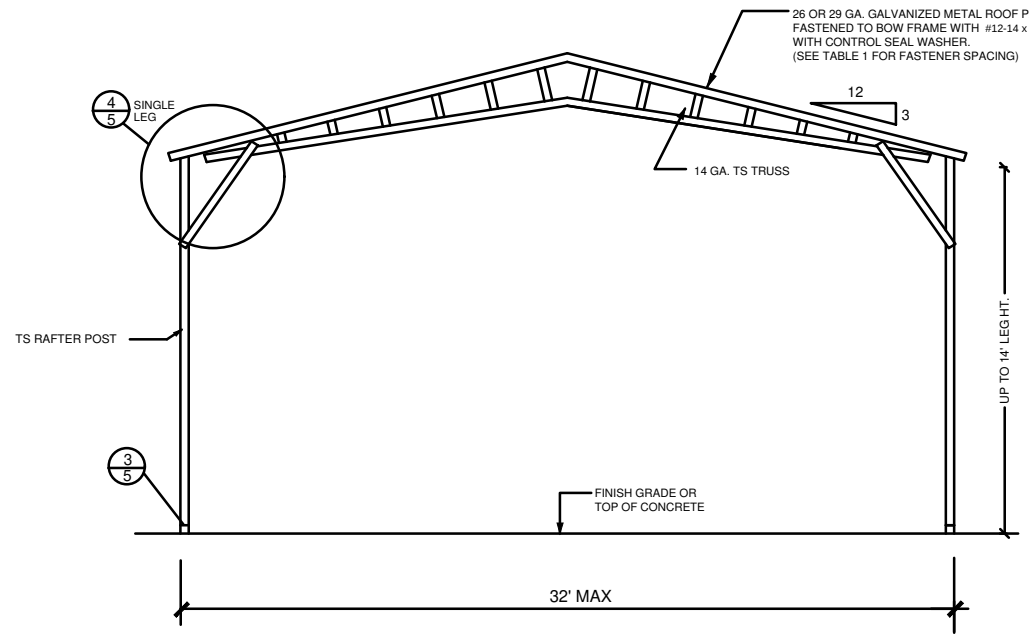
TYPICAL FREE STANDING LEAN-TO
NOT TO SCALE



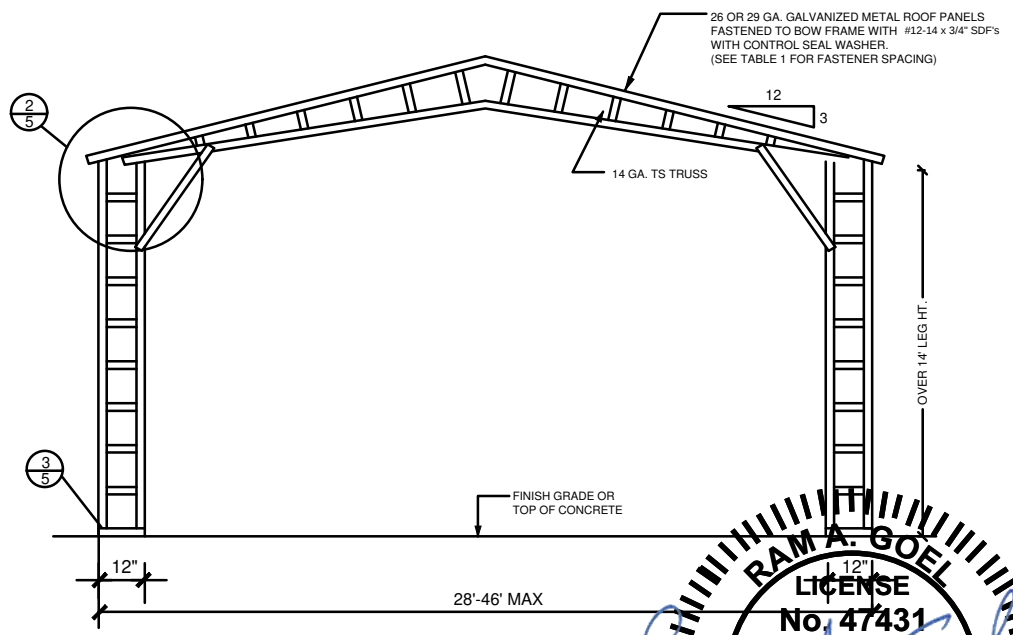
OPTIONAL 3" SPACER



OPTIONAL TRUSS DESIGN 14 GA., 15 GA., 12 GA., (ALL DETAILS SAME AS ABOVE)



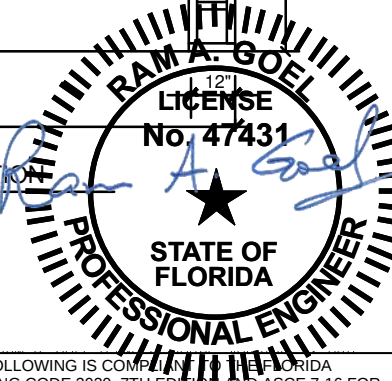
TYPICAL RAFTER/POST END FRAME SECTION
NOT TO SCALE



TYPICAL RAFTER/POST END FRAME SECTION
NOT TO SCALE

Ram Goel
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CN=Ram Goel,
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L=Tampa, S=Florida, C=US
Date: 2021.10.11
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Drawn By: S.K.
Checked By: R.G.

Issue Date: 08-18-21

Revisions:

No.	Date	Description
1		
2		
3		
4		

PREFABRICATED UTILITY STRUCTURE

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

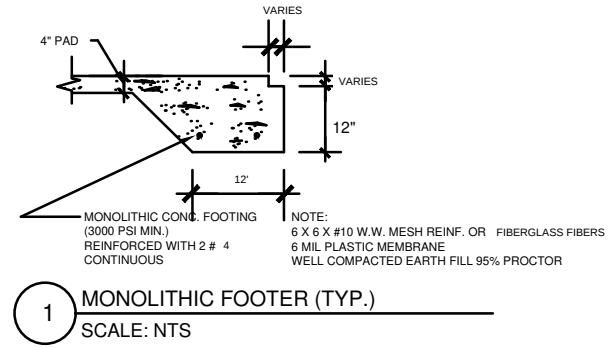
DR. RAM A. GOEL, PH.D., P.E.
F.P.E. 47431.
SONEY FM LLC
CORY LAKE PROFESSIONAL CENTER
10329 CROSS CREEK BLVD., SUITE P
TAMPA, FL 33647
Ph: 727-420-4796
Fax: (813) 972-2846
www.soneyfmllc.com

Job # 2173
Drawn By: S.K.
Checked By: R.G.

Issue Date: 08-18-21		
Revisions:		
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1	11	
2	11	
3	11	
4	11	

CONCRETE

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



CONCRETE:
CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
COVER OVER REINFORCING STEEL
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE:
3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND
PREMANENTLY IN CONTACT WITH EARCH OR EXPOSED TO THE EARTH OR WEATHER
AND 1 1/2" ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE
A MINIMUM CLEAR DISTANCE OF 1/4" FOR FINE GROUT OR 1/2" FOR COURSE GROUT
BETWEEN REINFORCING BARS AND ANY FACE OF A CELL. REINFORCING BARS USED IN
MASONRY WALLS SHALL HAVE A MASONRY COVER (INCLUDING GROUT) OF NOT LESS THAN
2" FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2" FOR MASONRY
UNITS NOT EXPOSED TO EARCH OR WEATHER.

REINFORCING STEEL:
THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40.

GALVANIZATION:
METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION NOT DIRECTLY EXPOSED TO
THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL
PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE
IN STAINLESS STEEL OR HOT DIPPED GALVANIZED.

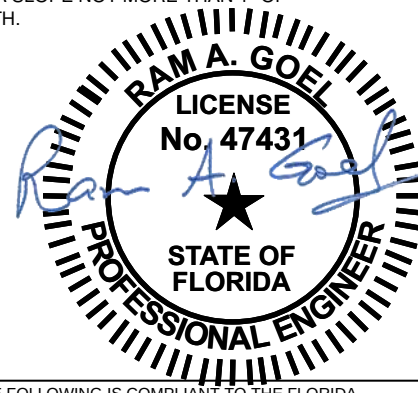
REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

1. ALL REINFORCEMENT IS BENT COLD
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN 6-BAR
DIAMETERS AND
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN BARS WITH A VERTICAL CELL, BARS PARTIAL
EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE NOT MORE THAN 1" OF
THE HORIZONTAL DISPLACEMENT TO 6" OF VERTICAL BAR LENGTH.

Ram Goel

Digitally signed by Ram
Goel
DN:
E=Soneyfmllc@yahoo.com,
CN=Ram Goel,
OU=ENGINEERING,
O=Soney FM LLC,
L=Tampa, S=Florida, C=US
Date: 2021.10.11
14:16:36-04'00'



THE FOLLOWING IS COMPLIANT TO THE FLORIDA
BUILDING CODE 2020, 7TH EDITION AND ASCE 7-16 FOR
WIND LOADS OF 180 MPH

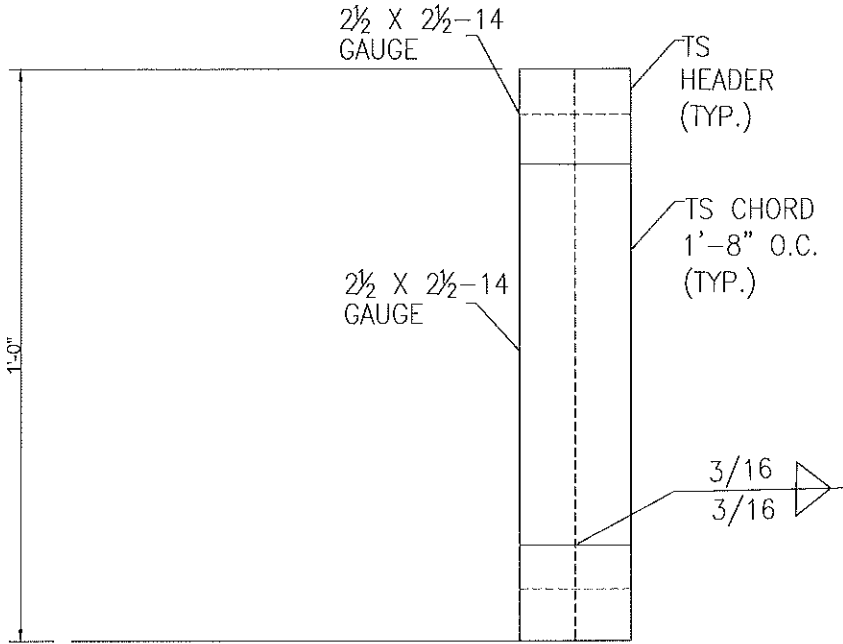
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4" CONC. SLAB
6 X 6 #10 W.W. MESH REINF. -
FIBERMESH OPTIONAL
6 MIL PLASTIC MEMBRANE
WELL COMPACTED EARTH FILL 95% PROCTOR
TREAT SOIL FOR TERMITES

1
6 of 6

OPTIONAL HEADER



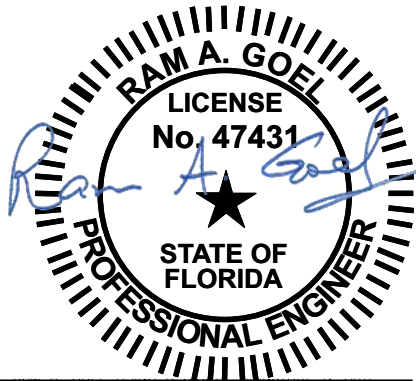
HEADER DETAIL FOR DOOR
OPENINGS 12'-0" < LENGTH < 20'-0"
SCALE: N.T.S.



DR. RAM A. GOEL, PH.D., P.E.
F.P.E. 47431.
SONEY FM LLC
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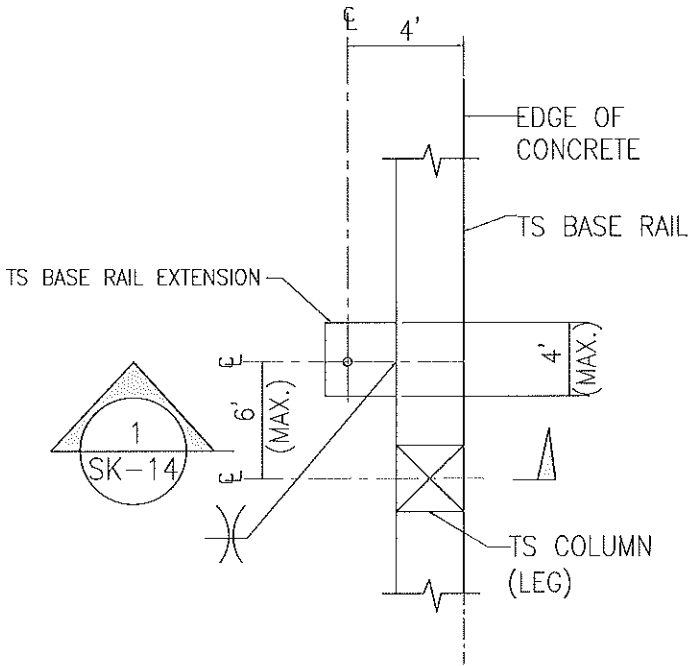
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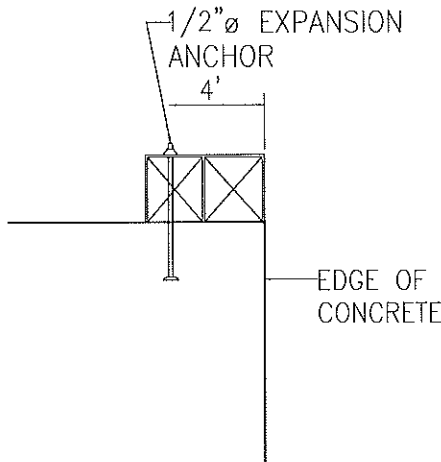
OPTIONAL HEADER

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LIVE OAK, FL 32060

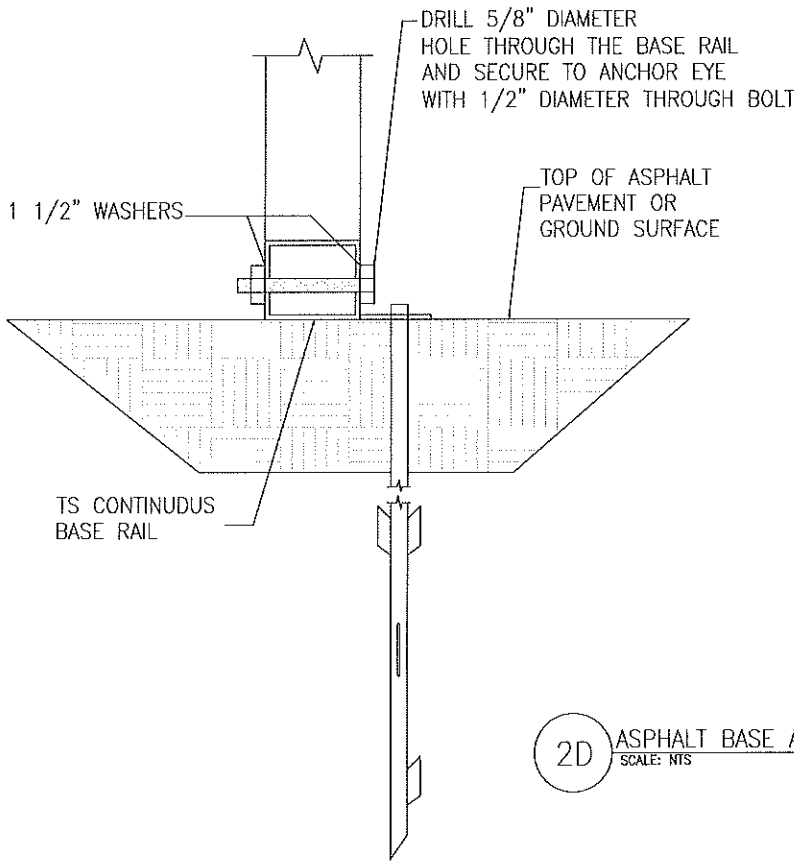
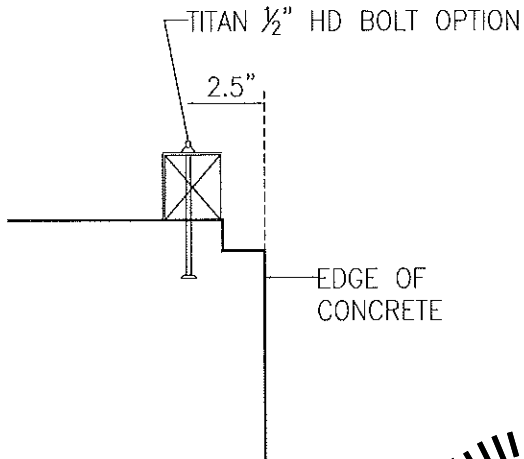
ADDITIONAL BASE RAIL ANCHORAGE OPTION



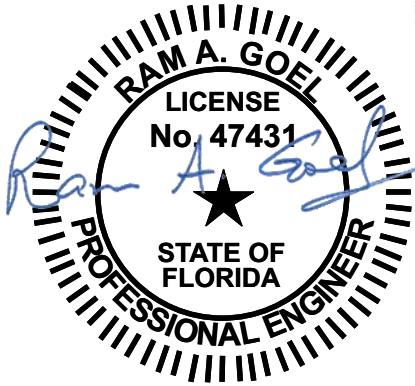
TYPICAL ANCHOR DETAIL WHEN
BASE RAIL IS NEAR EDGE OF CONCRETE
SCALE: N.T.S.



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



2D ASPHALT BASE ANCHORAGE
SCALE: N.T.S.



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DR. RAM A. GOEL, PH.D., P.E.
F.P.E. 47431.
SONEY FM LLC
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10329 CROSS CREEK BLVD., SUITE P
TAMPA, FL 33647
Ph: 727-420-4796
Fax: (813) 972-2846
www.soneyfmllc.com

Job # 2173
Drawn By: S.K.
Checked By: R.G.

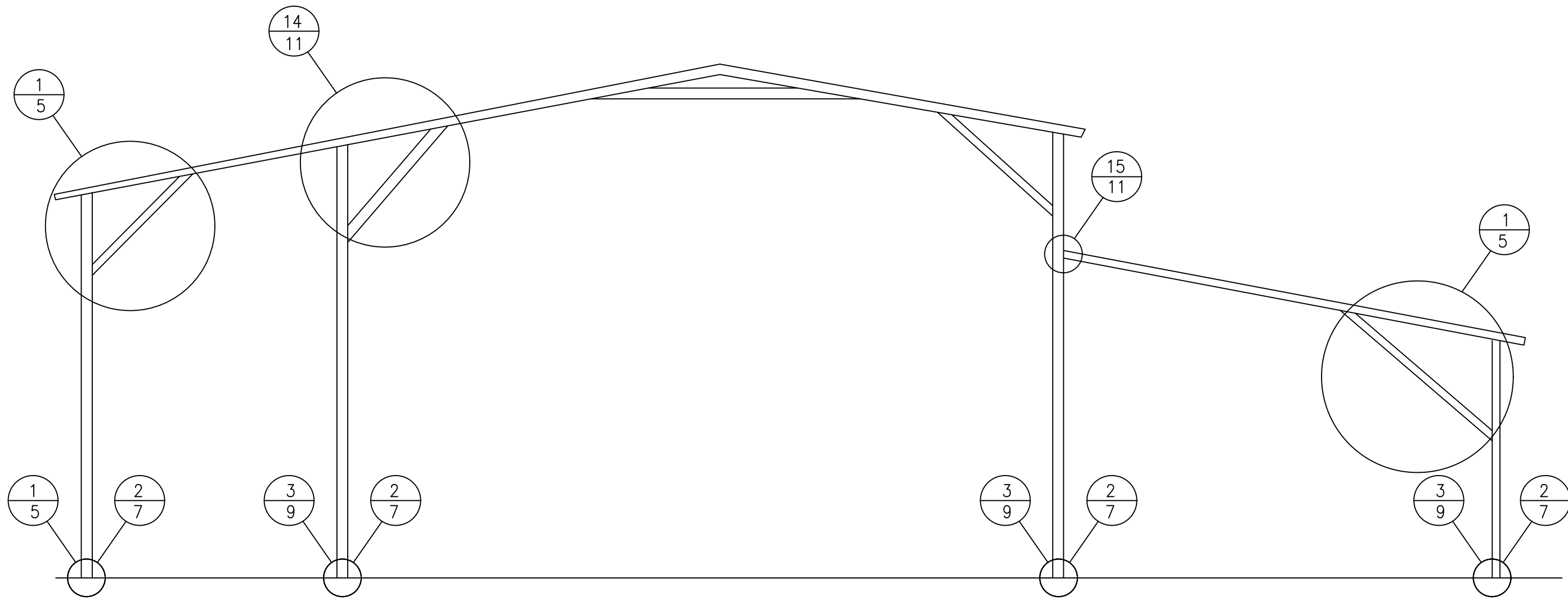
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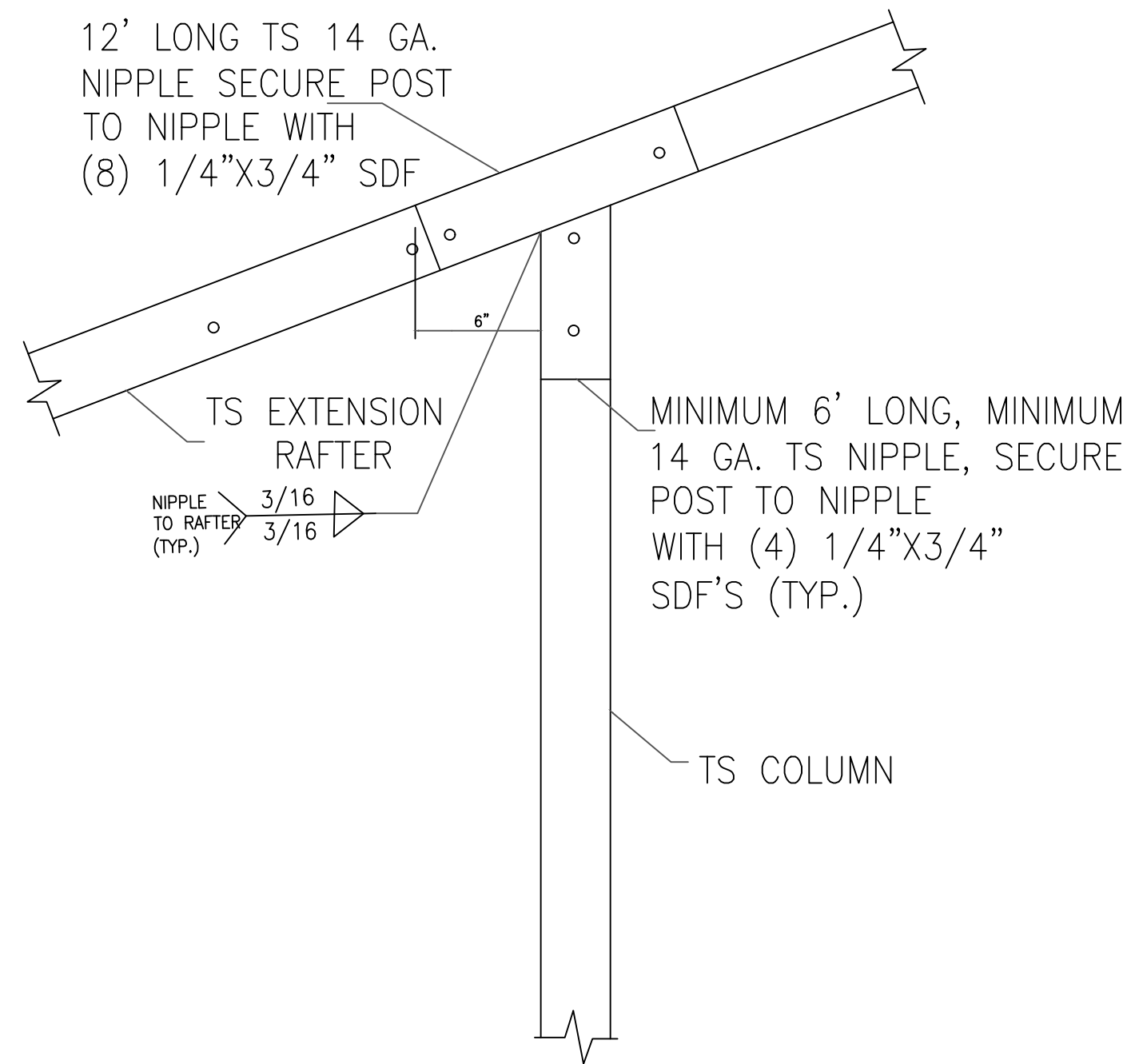
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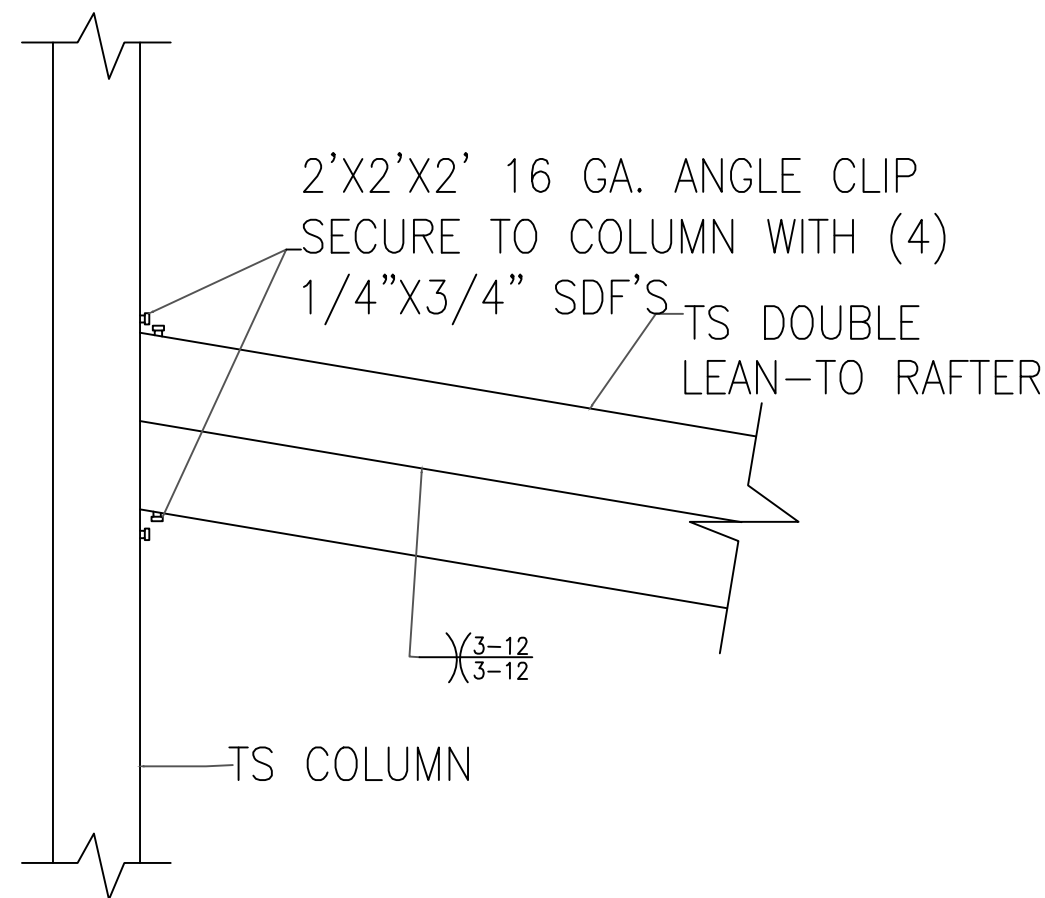
BOX EAVE RAFTER LEAN-TO OPTIONS



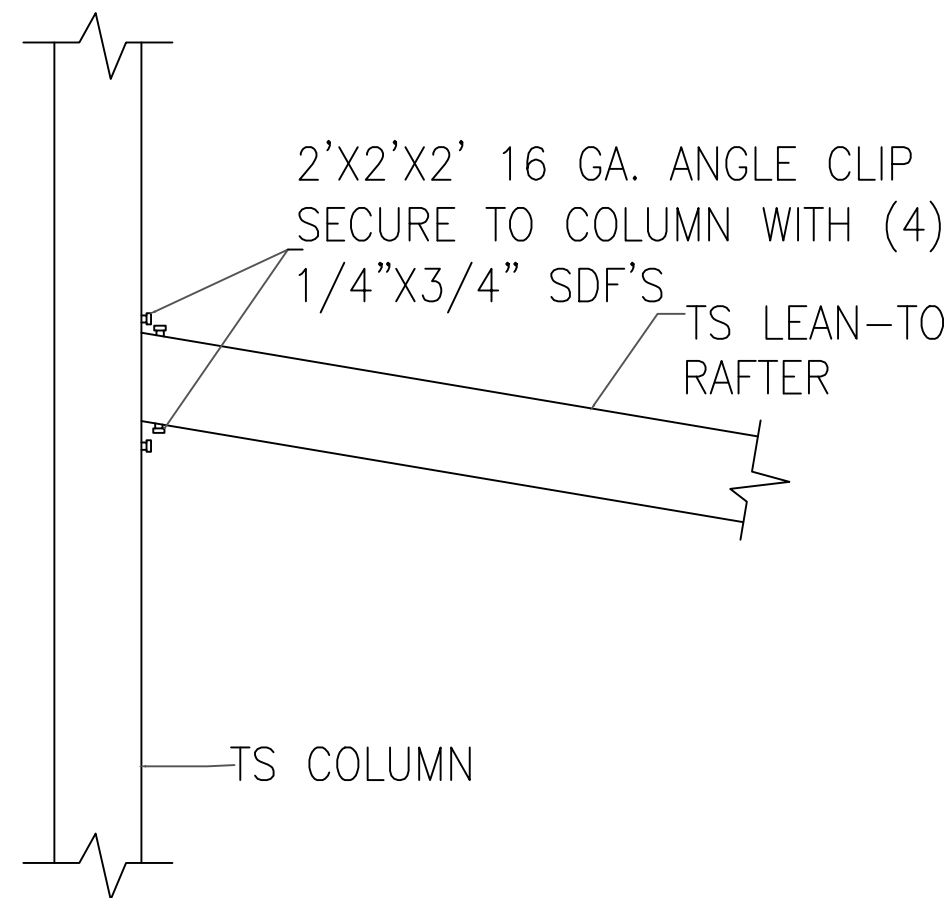
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)
SCALE: NTS



14 SIDE EXTENSION RAFTER/
CORNER POST DETAIL
SCALE: NTS



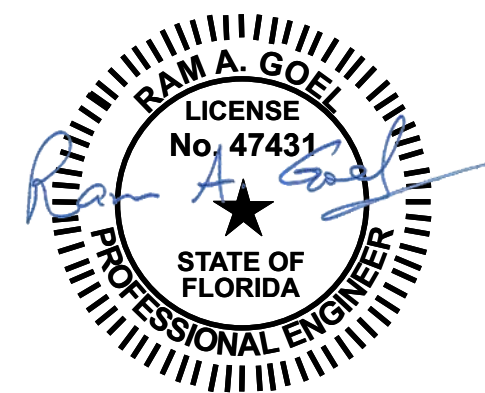
15A LEAN-TO RAFTER TO
RAFTER POST CONNECTION
DETAIL FOR WIDTHS
12'-0" < TO ≤ 16'-0"
SCALE: NTS



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

Ram Goel

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DN:
E=Soneyfmllc@yahoo.com,
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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.soneyfmllc.com

Job #2173

Drawn By: K.D.

Checked By: S.G.

Issue Date: 08-18-21

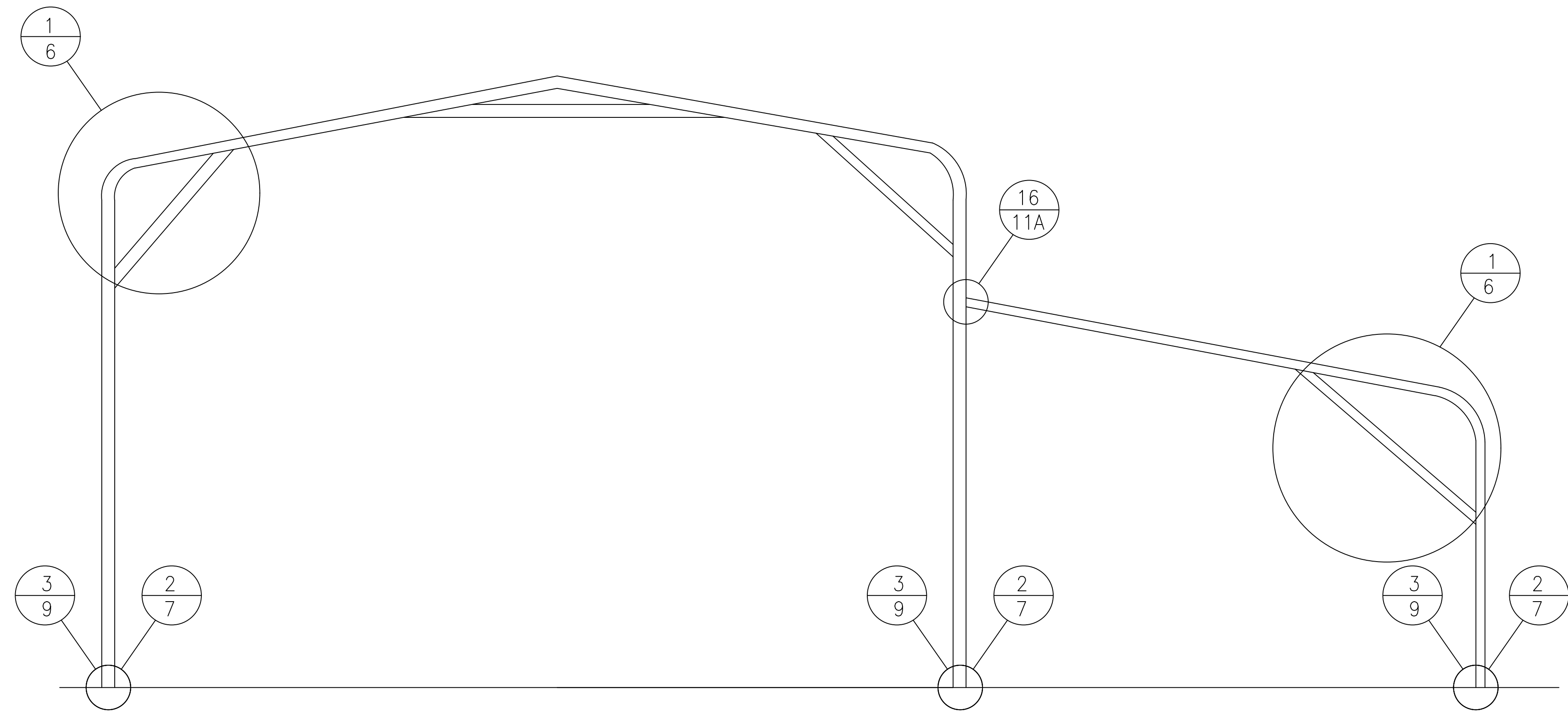
Revisions:		
No.	Date	Description
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BOX EAVE RAFTER LEAN-TO OPTIONS

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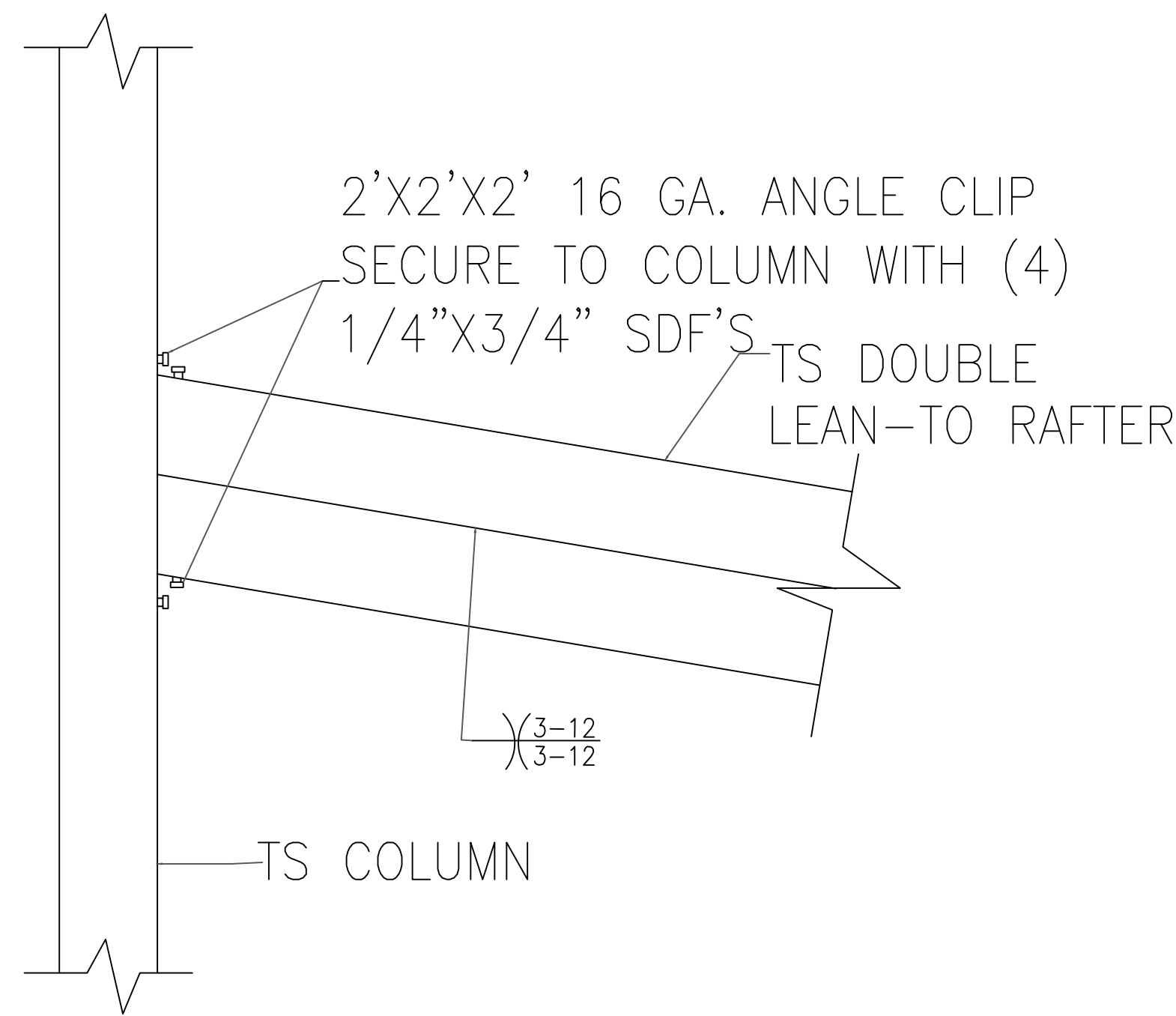
9

BOX EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

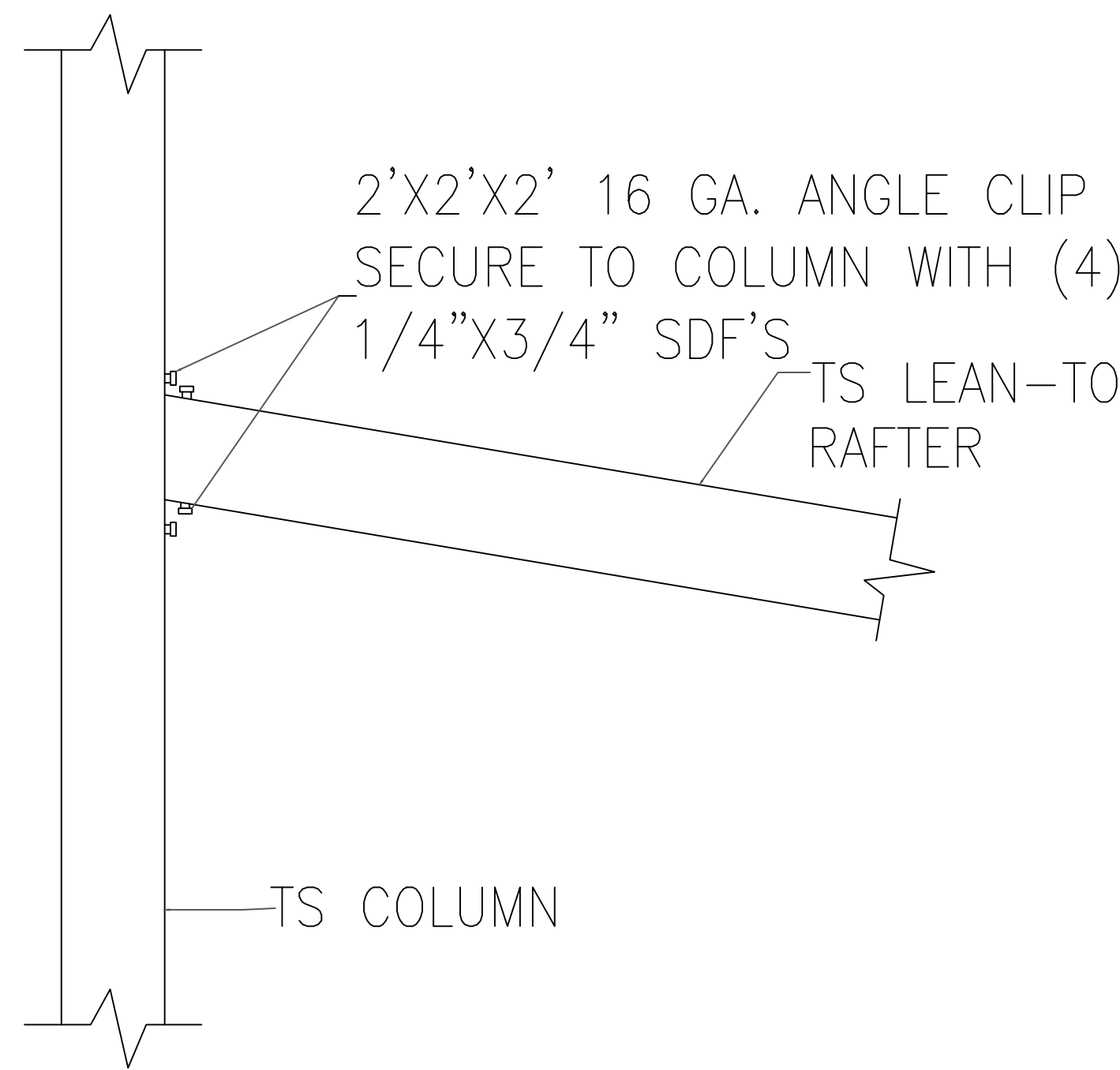
SCALE: NTS



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

16A

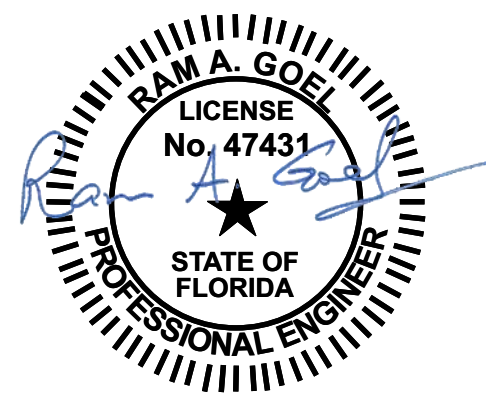
SCALE: NTS



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

16B

SCALE: NTS



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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.soneyfmllc.com

Job #2173

Drawn By: K.D.

Checked By: S.G.

Issue Date: 08-18-21

Revisions:		
No.	Date	Description
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Δ	//	
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BOX EAVE RAFTER LEAN-TO OPTIONS

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LIVE OAK, FL 32060

10