## TABLE 1 BOW/RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS

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

Reviewed

for Code Compliance

NOTES: 1. SPECIFICATIONS APPLICABLE TO 26 OR 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 12,14 OR 15 GAUGE STEEL TUBE BOW FRAMES. 2. FASTENTERS CONSIST OF \*12-143/4" 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.

SWINGING DOOF

(AS APPLICABLE) DESIGN PRESSURE +40.0/-40.0 PSF

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 INDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION.

### ANSI/AAMA/NWWDA 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.

26 OR 29 GA.

±N/A -40.0 PSF

SPACING

ROOF AND WALL PANELS

@ 5'-0" O.C. FASTENER

**DESIGN PRESSURE** 

METAL

## **GENERAL NOTES:**

- 1. ALL STEEL SHALL BE 50 KSI STEEL
- 2. FASTEN METAL ROOF AND WALL PANELS TO FRAMING WITH 1/4" X 3/4" SELF DRILLING FASTENERS WITH CONTROL SEAL WASHER @ 6"
- 3. ALL FIELD CONNECTIONS SHALL BE #12-14X3/4" SELF DRILLING SCREWS.
- 4. ALL SHOP CONNECTIONS SHALL BE WELDED.
- 5. CONCRETE EXPANSION ANCHORS SHALL BE WEJ-IT ANKR-TITE MODEL AT 1252, OR SLEEVE ANCHOR MODEL HSA 1260, OR EQUIVELENT. 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.
- 6. POST/RAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS.

RAM A. GOEL, PH.D., F.P.E. 47431.

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

DR.

ssue Date:08—18—2 Revisions: Description Date

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MANUFACTURING,L TRACE . 32060 METAL 1 88TH OAK, FL E CH ELITI 101, LIVE

PRE

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

WINDOW -

(AS APPLICABLE) DESIGN PRESSURE

+23.0/-25.0 PSF

## TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

SCALE: NOT TO SCALE

## TYPICAL END ELEVATION-HORIZONTAL ROOF

- 30' MAXIMUM RAFTER SPAN -

SCALE: NOT TO SCALE

ROLL-UP DOOR

(AS APPLICABLE)
DESIGN PRESSURI

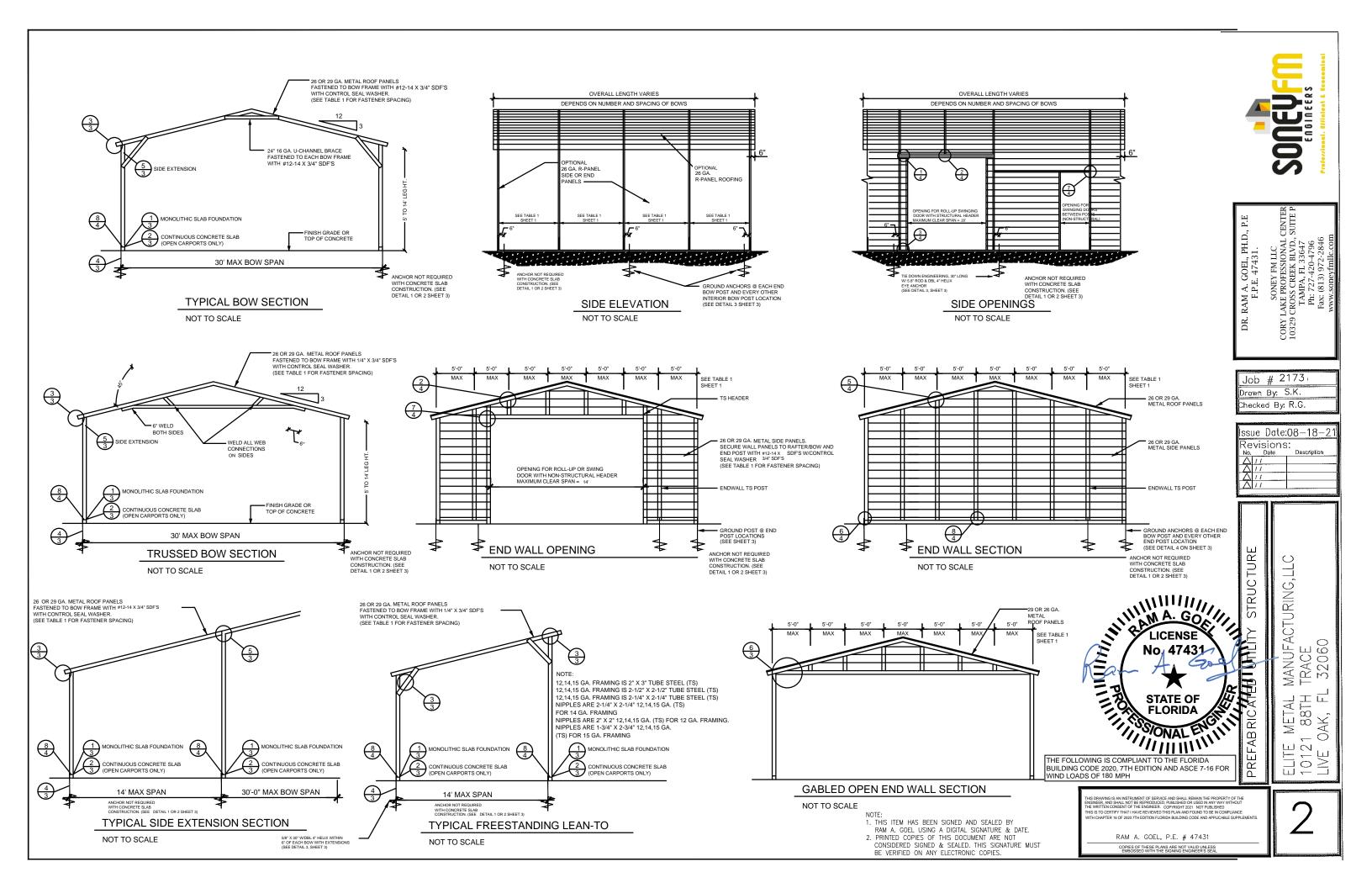
LOW = (+24.4/-27.0 PSF

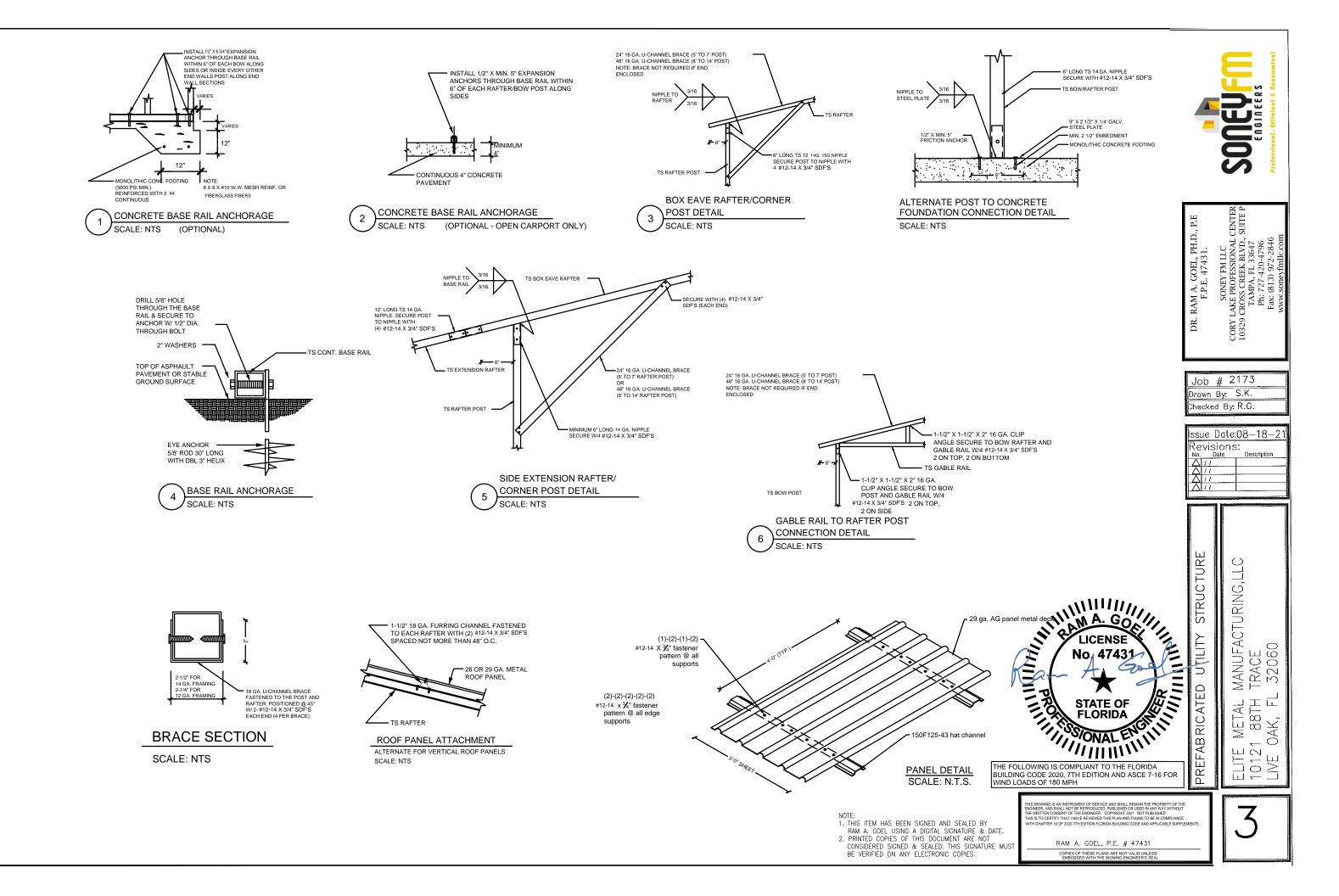
HIGH = (+36.0/-41.0 PSF)

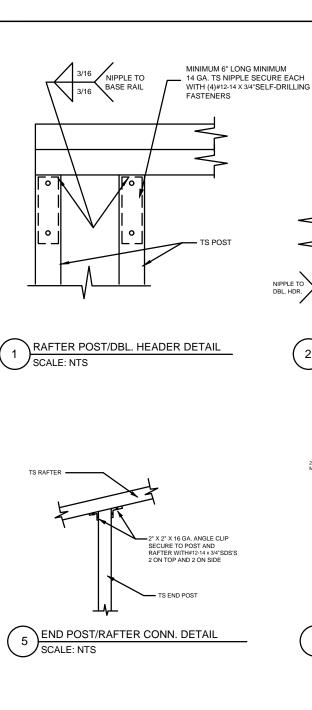
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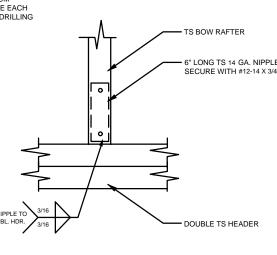
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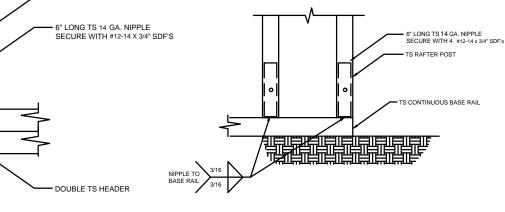




RAFTER POST/BASE BASE RAIL CONNECTION DETAIL

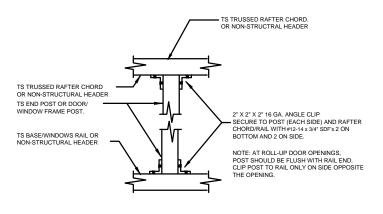
END POST/BASE RAIL CONN.

SCALE: NTS

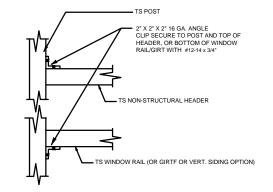


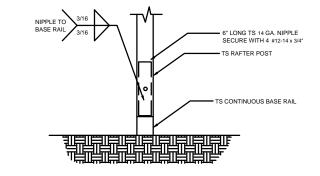
1 1/2" X 1 1/2" X 2" 16 GA. CLIP ANGLE SECURE TO RAFTER POST AND BASE RAIL W/(4) #12-14 x 3/4" SDF's

RAFTER POST/BASE BASE RAIL CONNECTION DETAIL



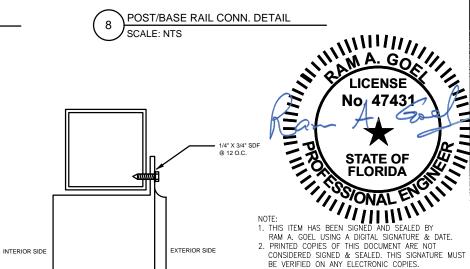












THE FOLLOWING IS COMPLIANT TO THE FLORIDA BUILDING CODE 2020, 7TH EDITION AND ASCE 7-16 FOR WIND LOADS OF 180 MPH

SECTION

RAM A. GOEL, P.E. # 47431

RAM A. GOEL, PH.D., P.E F.P.E. 47431.

Job # 2173

Drawn By: S.K.

Checked By: R.G.

Revisions:

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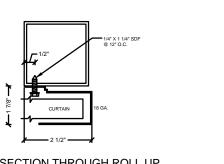
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Description

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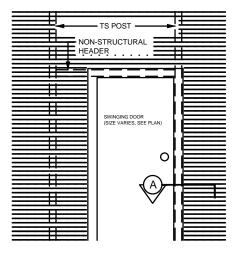
METAL 1 1 88TH OAK, FL

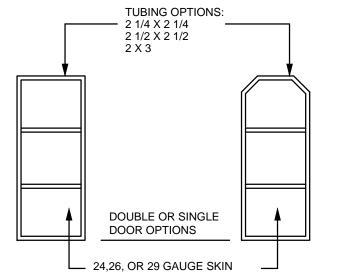
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SECTION THROUGH ROLL UP DOOR HEADER

CURTAIN 24 GA. PBR WITH BAKED ON EPOXY PRIMER & POLYESTER TOP COAT. SCALE: NTS

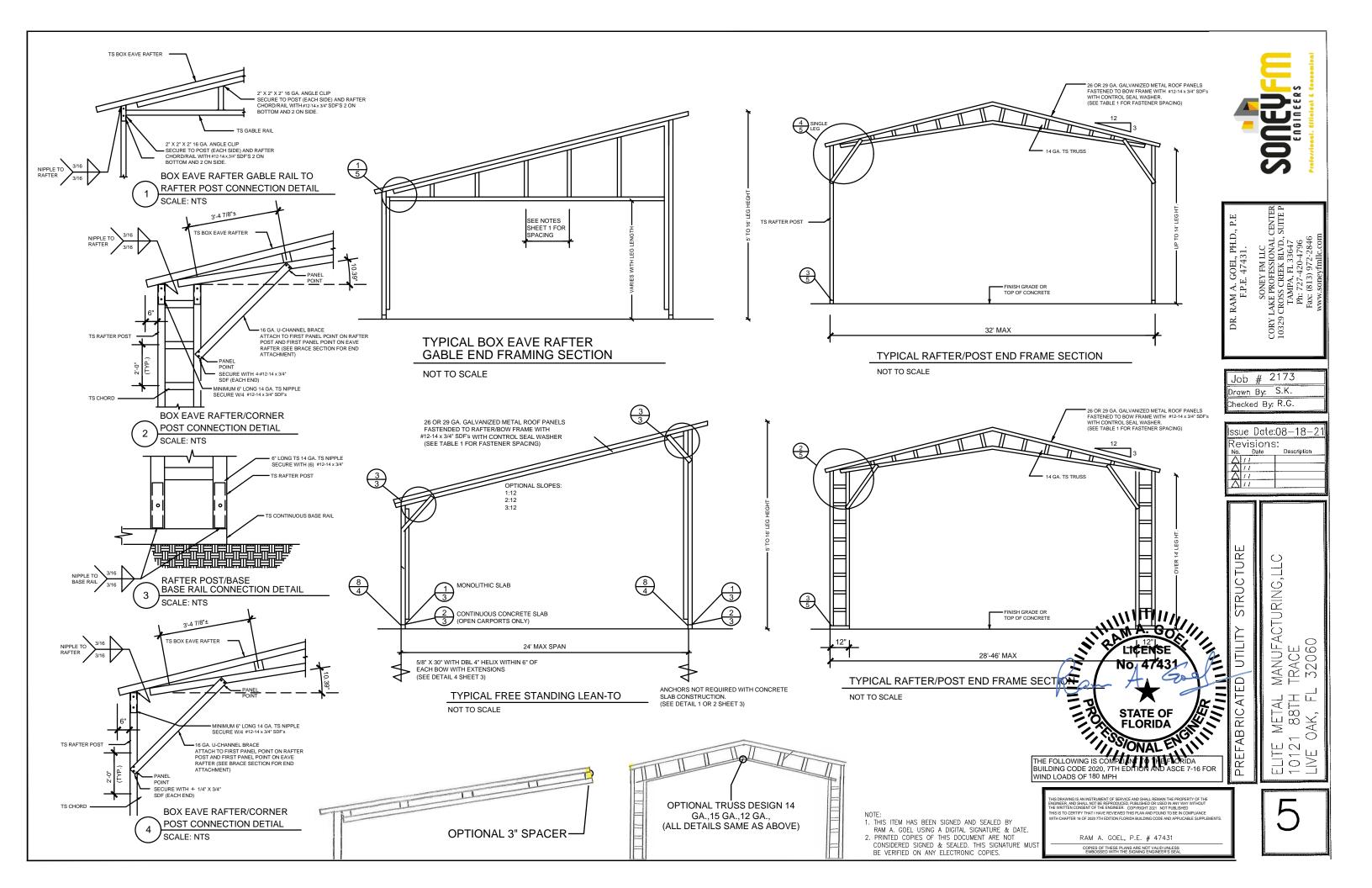


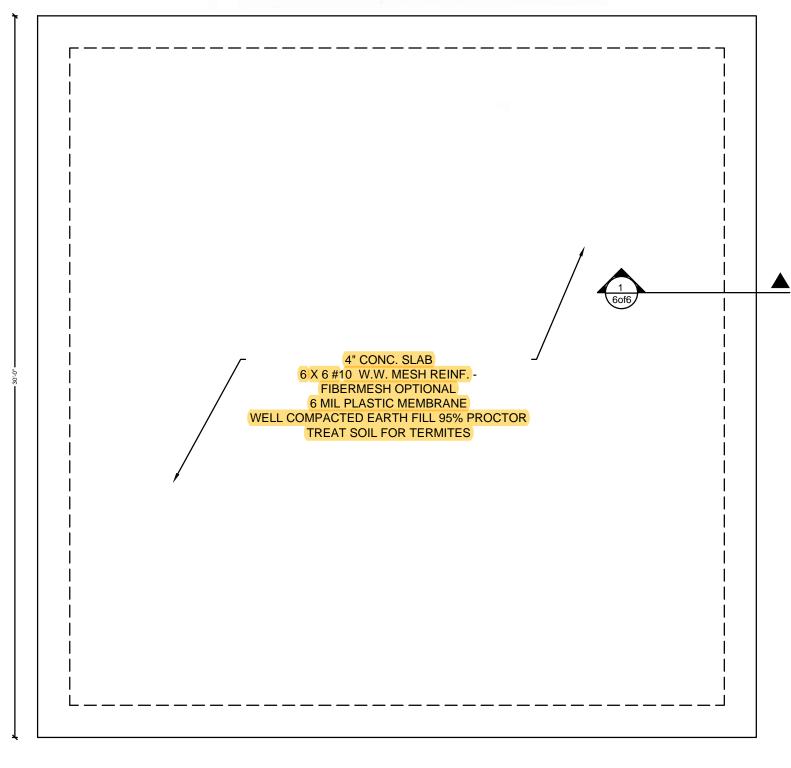


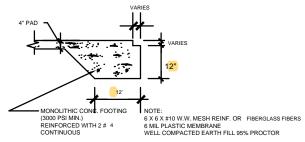
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MONOLITHIC FOOTER (TYP.) SCALE: NTS

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.

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 PARTIALL 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.



DR. RAM A. GOEL, PH.D., F.P.E. 47431. SONEY FM LLC CORY LAKE PROFESSIONAL C 10329 CROSS CREEK BLVD., S TAMPA, FL 33647 Ph: 727-420-4796

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

sue Date:08—18—21 Revisions: Date Description

> MANUFACTURING,L TRACE 32060 METAL 88TH  $\simeq$

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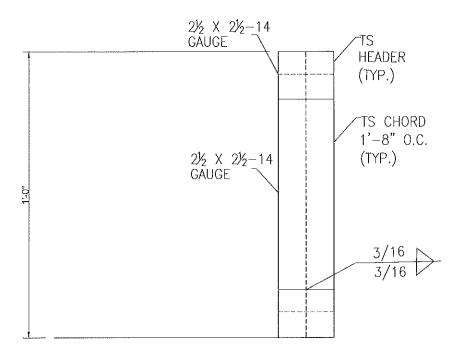
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## OPTIONAL HEADER



HEADER DETAIL FOR DOOR OPENINGS 12'-0" < LENGTH < 20'-0"

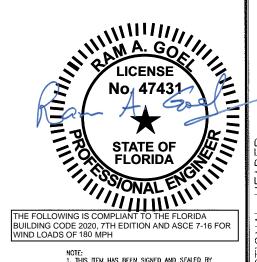


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SONEY FM LLC
CORY LAKE PROFESSIONAL CENTER
10329 CROSS CREEK BLVD., SUITE P
TAMPA, FL 33647
Ph; 727-420-4796
Fax: (813) 972-2846

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lssue Date:08—18—2 Revisions:
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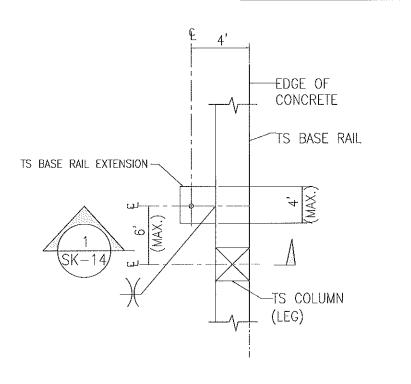
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ELITE METAL MANUFACTURING,LLC 10121 88TH TRACE LIVE OAK, FL 32060

HEADER

IONAL

## ADDITIONAL BASE RAIL ANCHORAGE OPTION



-1/2"ø EXPANSION **ANCHOR** 4' -EDGE OF CONCRETE

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

-DRILL 5/8" DIAMETER

TITAN 1/2" HD BOLT OPTION 2.5" SCALE: N.T.S. -EDGE OF CONCRETE



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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OPTION

RAIL

BASE

ADDITIONA

LICENSE NO 47431

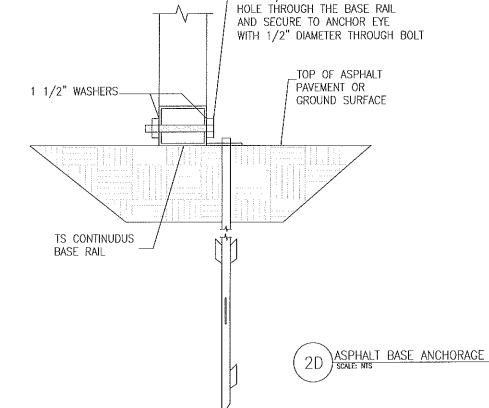
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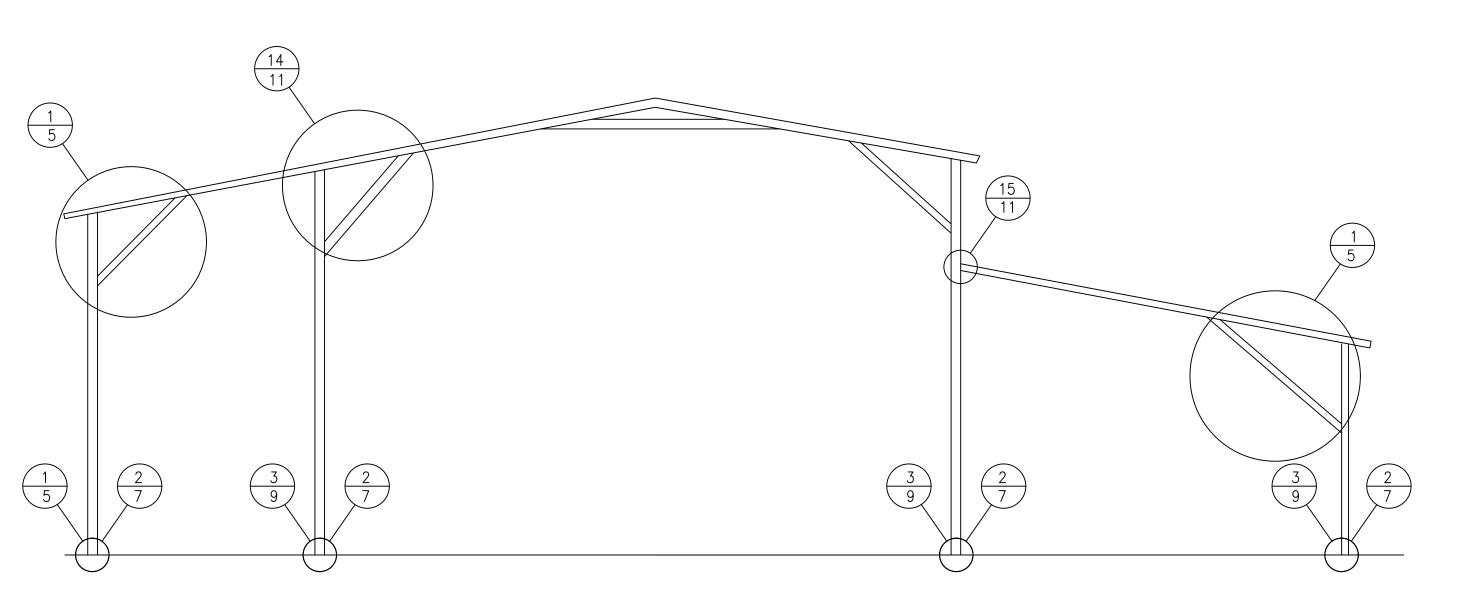
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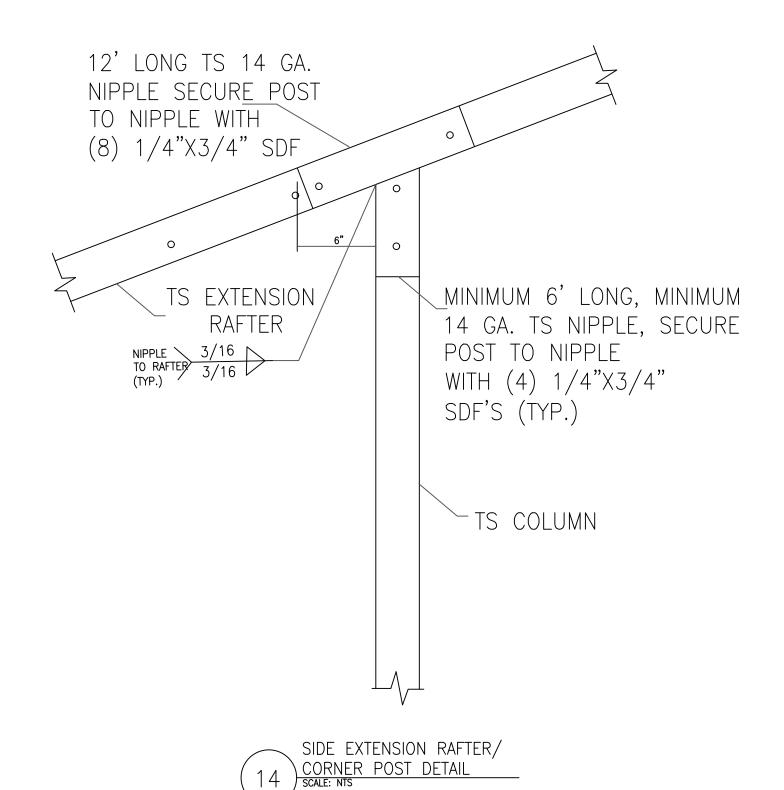
ELITE METAL N 10121 88TH 1 LIVE OAK, FL

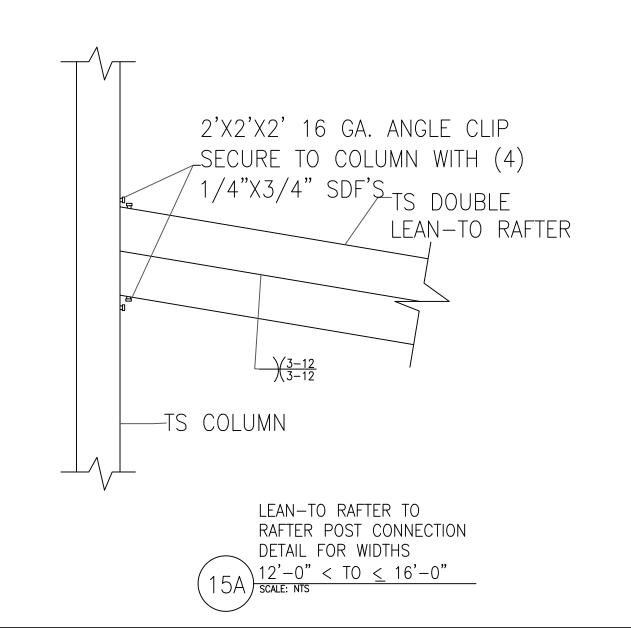


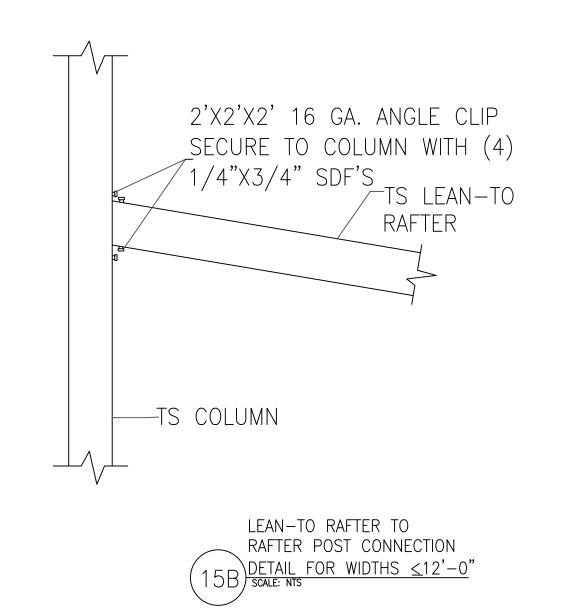
## BOX EAVE RAFTER LEAN-TO OPTIONS



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









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

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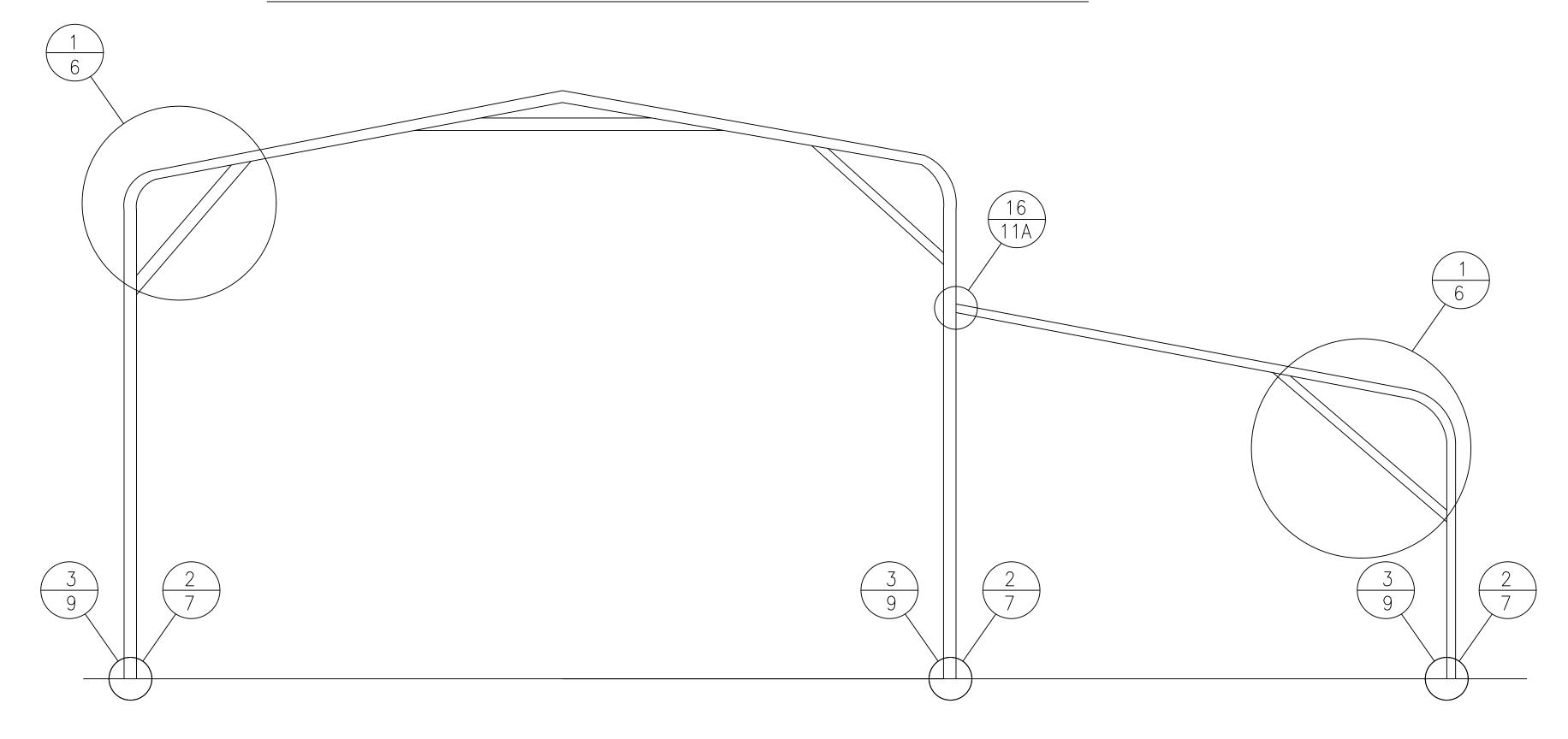


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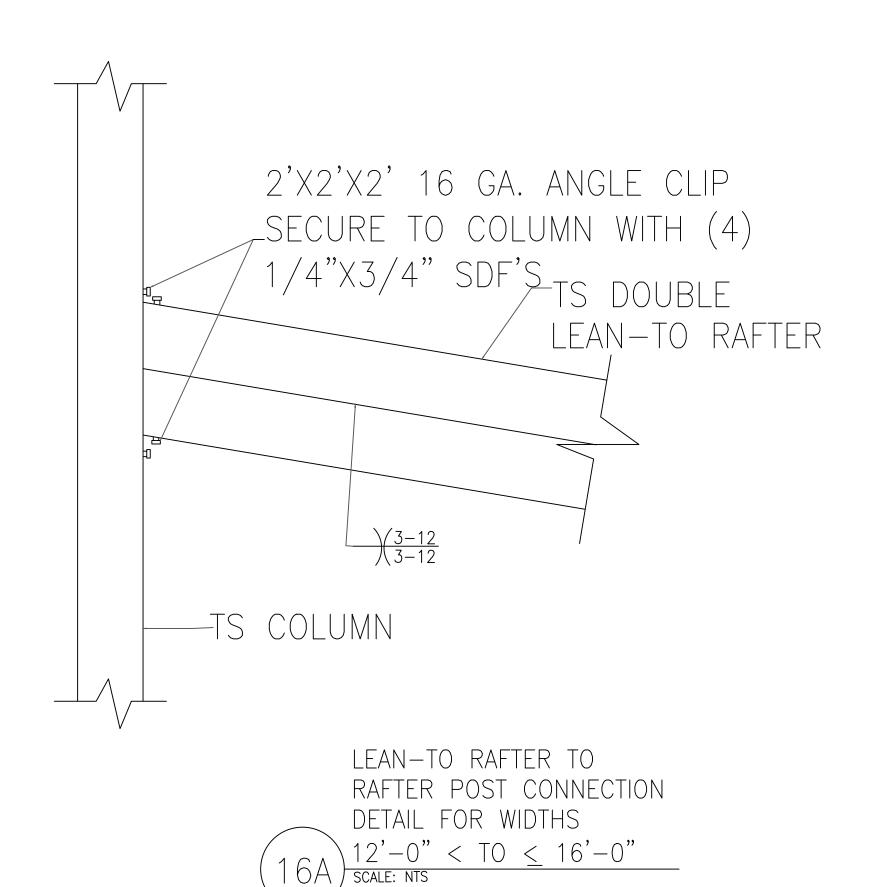
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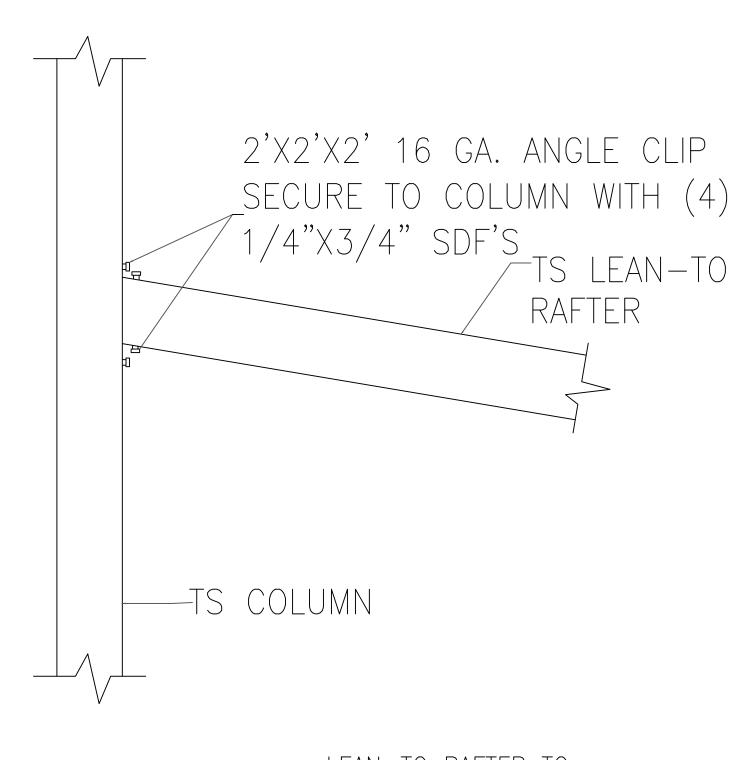
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# BOX EAVE RAFTER LEAN-TO OPTIONS



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





LEAN-TO RAFTER TO

RAFTER POST CONNECTION

16B) DETAIL FOR WIDTHS <12'-0"

scale: NTS



SONEY FM LLC
Y LAKE PROFESSIONAL CENTER
29 CROSS CREEK BLVD., SUITE P
TAMPA, FL 33647

Job #2173

Drawn By: K.D.

Checked By: S.G.

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RAFTER LEAN-TO OPTIONS
AL MANUFACTURING, LLC
TH TRACE
FL 32060



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