

### STRUCTURAL DESIGN ENCLOSED BUILDING

### MAXIMUM 30'-0" WIDE X 14'-0" EAVE HEIGHT-BOX EAVE FRAME AND BOW FRAME

## HIGH WIND SPEED (140 MPH < VULT ≤ 170 MPH) PACKAGE FOR THE STATES OF FLORIDA, SOUTH CAROLINA AND GEORGIA

12 February 2021 Revision 6 M&A Project No. 15079S/16195S/17155S/17200S/18068S/20019S/20324S

#### Prepared for:

Steel Buildings and Structures, Inc. P.O. Box 1287 Mt. Airy, NC 27030

#### Prepared by:

Moore and Associates Engineering and Consulting,

1009 East Avenue North Augusta, SC 29841

401 S. Main St., Suite 200 Mt. Airy, NC 27030





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MOORE AND ASSOCIATES	DRAWN BY: LT	1	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287,			

#### INSTALLATION NOTES AND SPECIFICATIONS

- I, DESIGN IS FOR MAXIMUM 30'-0" WIDE x 14'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) 7TH EDITION, 2012 INTERNATIONAL BUILDING CODE (IBC), 2015 IBC AND 2018 IBC.
- 3 DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD = 1.5 PSF B) LIVE LOAD = 1.2 PSF C) GROUND SNOW LOAD = 10 PSF

NOTE: (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED)

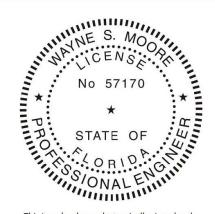
- 4. 3-SECOND GUST HIGH ULTIMATE WIND SPEED = 141 TO 170 MPH (NOMINAL WIND SPEED = 108 TO 132 MPH):
- 5 MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 40 FEET (UNLESS NOTED OTHERWISE)
- 6. END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL POSTS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
- 7 RISK CATEGORY I
- 8. WIND EXPOSURE CATEGORY B.
- 9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" × 2 1/2" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS. (UNLESS NOTED OTHERWISE)
- 10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR AND EDGE) = 8 INCHES; 6 INCHES (FL).
- 11 FASTENERS CONSIST OF 1/4\*x3/4\* 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, ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF LAP JOINT SEALANT.
- 12 GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES.
- 13. WIND FORCES GOVERN OVER SEISMIC FORCES, SEISMIC PARAMETERS ANALYZED ARE:

SDIL SITE CLASS = D RISK CATEGORY I

R= 325  $I_E= 1.0$   $V= C_SW$ 

 $S_{D1} = 1.258 g$ 

14. WINDOW AND DOOR DESIGN PRESSURES ARE APPLICABLE TO THE STATE OF FLORIDA ONLY



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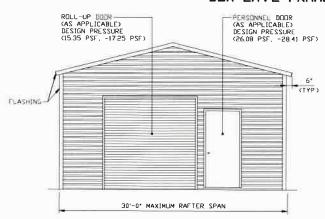
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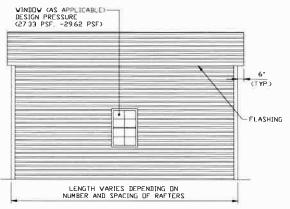
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i		N	MOUNT AIRY,	NC 270	030		
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- "		STEEL BOILDINGS THID STREET ORES, INC.					

## BOX EAVE FRAME RAFTER STRUCTURE

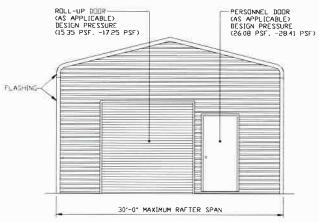




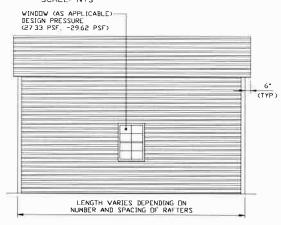
TYPICAL END ELEVATION-HORIZONTAL ROOF

TYPICAL SIDE ELEVATION-HORIZONTAL ROOF
SCALE: NTS

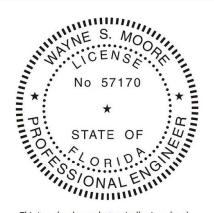
#### BOW EAVE FRAME RAFTER STRUCTURE



### TYPICAL END ELEVATION SCALE: NTS

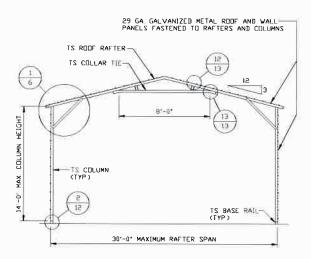


TYPICAL SIDE ELEVATION
SCALE: NTS

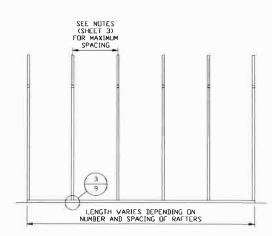


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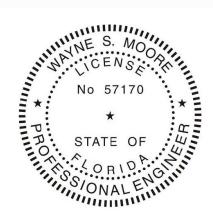
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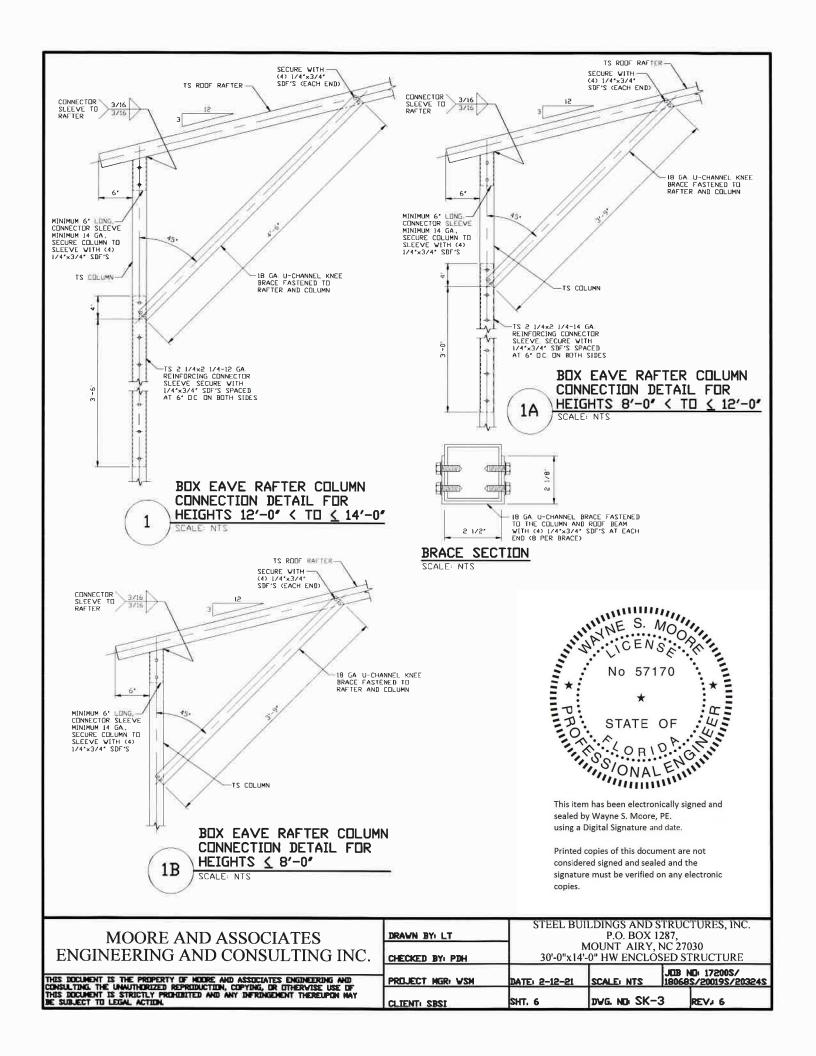


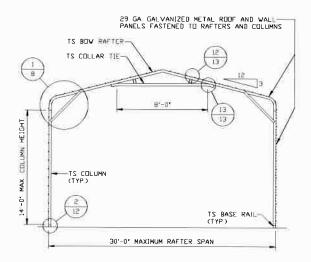
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS



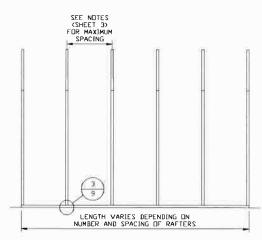
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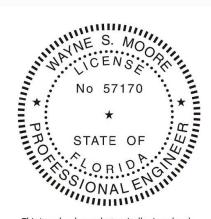








TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION SCALE: NTS



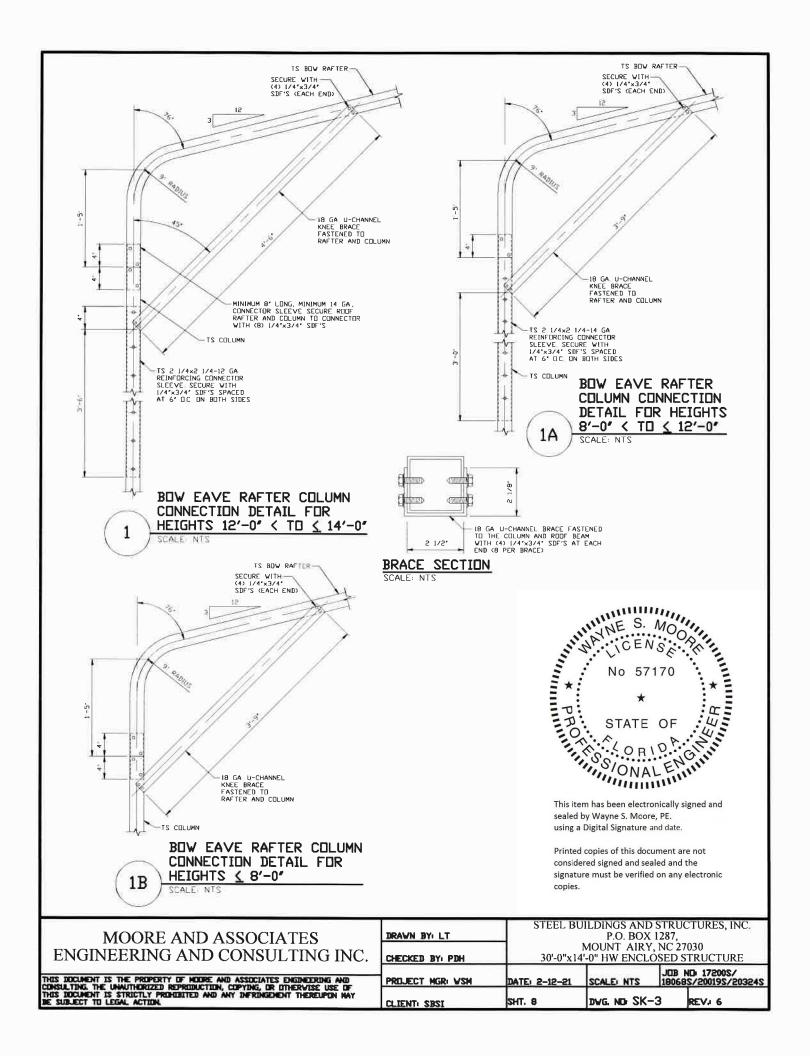
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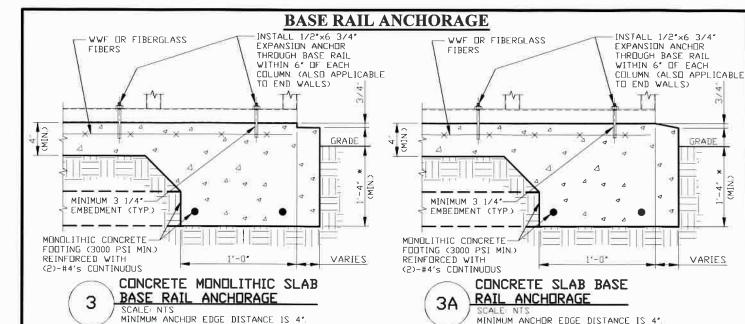
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DRAWN BY: LT		P.O. BOX 1287, MOUNT AIRY, NC 27030					
	21FFF BC	CTURES, INC.					





#### GENERAL NOTES

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

\* COORDINATE WITH LOCAL CODES/ORD

#### 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

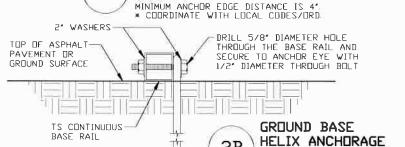
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM AGIS GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 DR FIBERGLASS FIBER REINFORCEMENT.

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

- I 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.

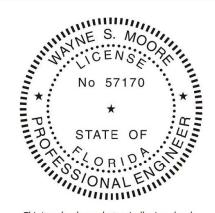
#### HELIX ANCHOR NOTES:

- L 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
- FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- 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
- FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM
- FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8' HELICES WITH MINIMUM 60' EMBEDMENT.



3B SCALE: NTS (CAN BE USED FOR ASPHALT)

\* COORDINATE WITH LOCAL
CODES/ORD, REGARDING MIN HELIX EYE ANCHOR (SEE NOTES BELOW) FROST DEPTH (LENGTH)



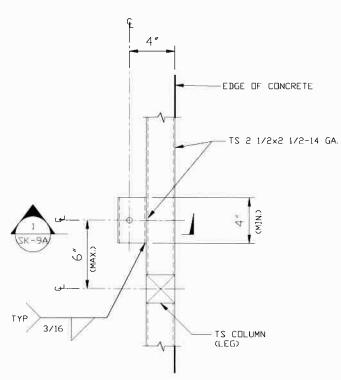
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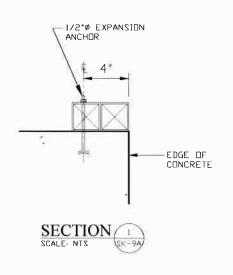
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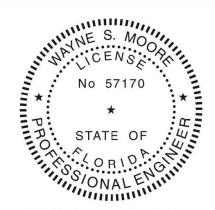
#### **BASE RAIL ANCHORAGE OPTION**





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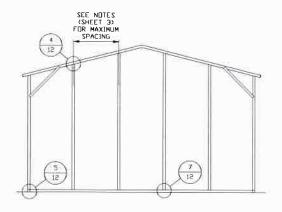
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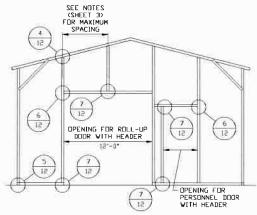
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#### **BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS**



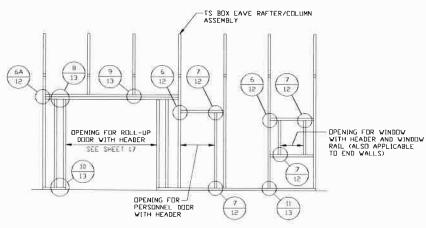
### TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



### TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



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DWG, ND SK-3

REV₁6

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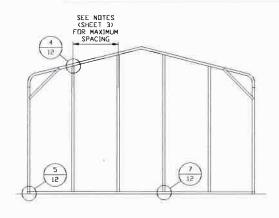
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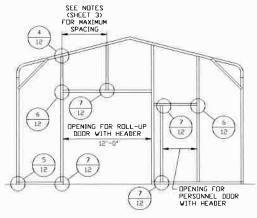
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#### BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



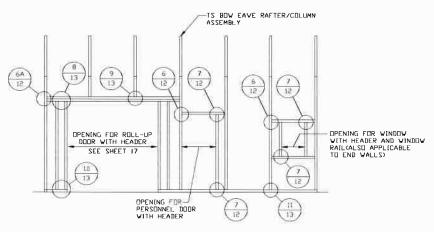
## TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



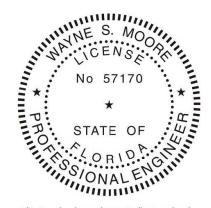
## TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



### TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

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DVG. NO SK-3

REV. 6

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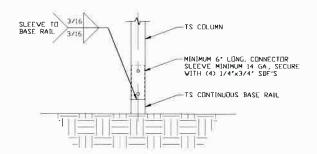
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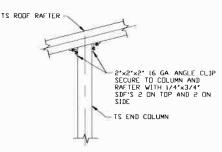
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SHT. 11

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#### **CONNECTION DETAILS**



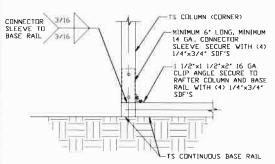


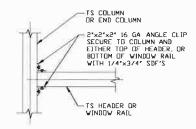


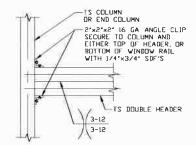
### RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS

4 CONNECTION DETAIL
SCALE: NTS







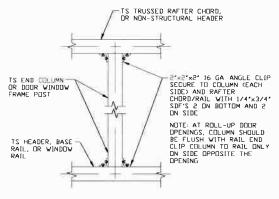
## END COLUMN/BASE RAIL CONNECTION DETAIL

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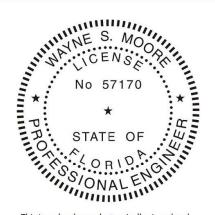
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COLUMN OR WINDOW RAIL/GIRT TO POST CONNECTION DETAIL COLUMN OR DOUBLE HEADER TO POST CONNECTION DETAIL

SCALE NTS



6



COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

SCALE: NTS

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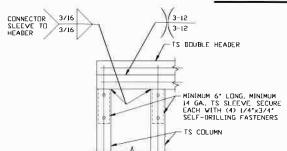
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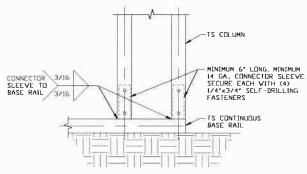
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PROJECT MGR: VSM	DATE: 2-12-21	SCALE: NTS		85/200195/203245		
			JOB	ND: 17200S/		
CHECKED BY: PDH		30'-0"x14'-0" HW ENCLOSED STRUCTURE				
	P.O. BOX 1287, MOUNT AIRY, NC 27030					
DRAWN BY: LT						
	1 STEEL BU	ILDINGS AND	SIKU	CIURES, INC.		

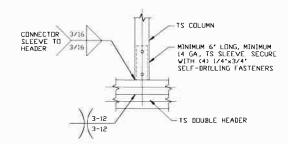
#### **CONNECTION DETAILS**



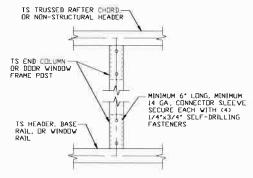
# 8 DOUBLE HEADER/COLUMN CONNECTION DETAIL SCALE: NTS



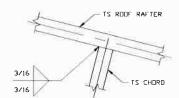
# 10 COLUMN/BASE RAIL CONNECTION DETAIL



## 9 COLUMN/DOUBLE HEADER CONNECTION DETAIL SCALE: NTS

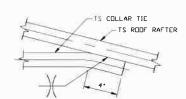


COLUMN TO HEADER OR BASE RAIL
CONNECTION DETAIL
SCALE: NTS



RAFTER TO CHORD CONNECTION DETAIL

SCALE: NTS



COLLAR TIE CONNECTION DETAIL
SCALE NTS



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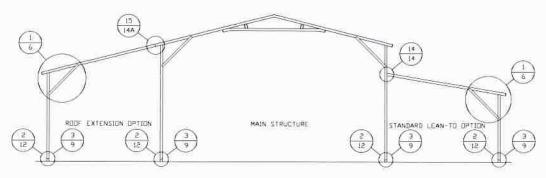
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	PROJECT MGR: VSM	DATE: 2-12-21	SCALE: NTS		\$/20019\$/20324\$					
•				JOB ND 17200S/						
	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x14'-0" HW ENCLOSED STRUCTUI								
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	DRAWN BY: LT	P.O. BOX 1287,								
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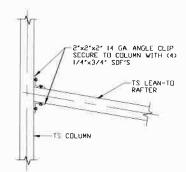
#### **BOX EAVE RAFTER LEAN-TO OPTIONS**



#### TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

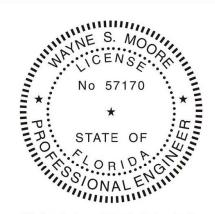
SCALE: NTS

MAXIMUM WIDTH OF STANDARD ROOF EXTENSION AND LEAN-TO IS 12'-0' FOR SHARED COLUMN HEIGHTS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.



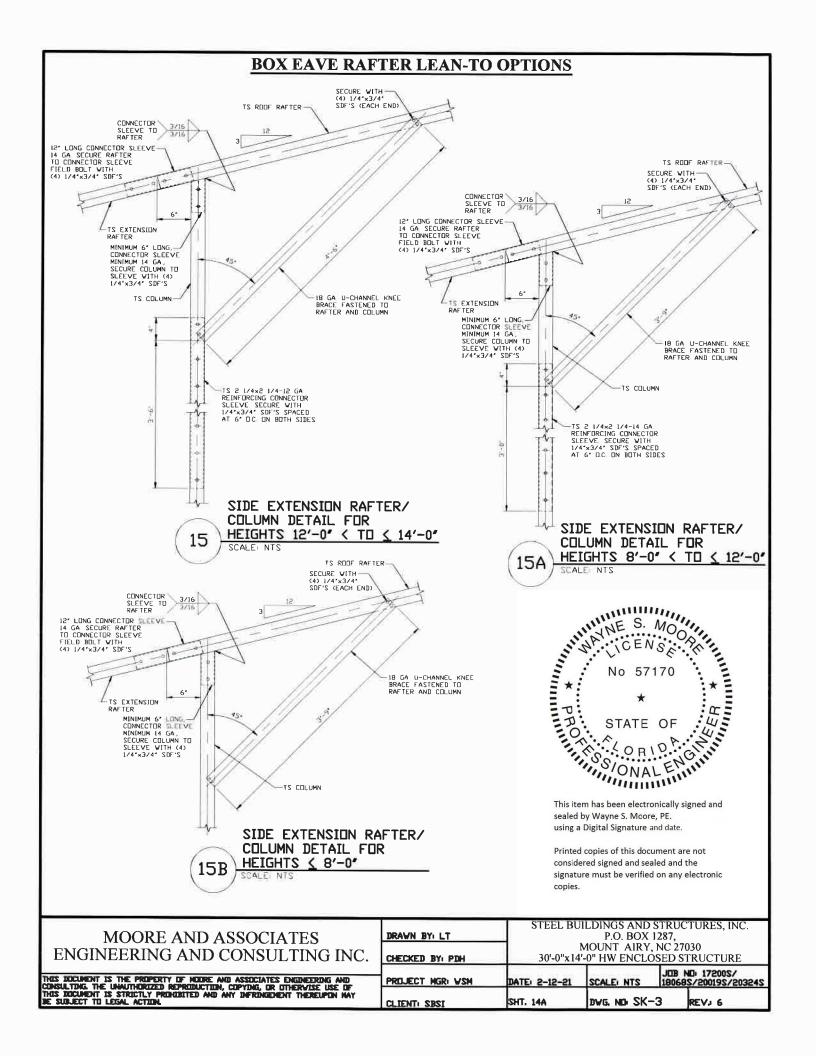
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL

SCALE: NTS

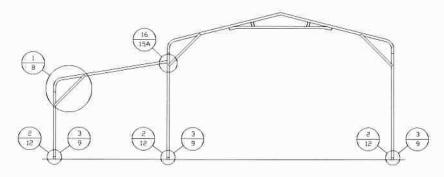


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ENCINEEDING AND CONCULTING INC	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x14'-0" HW ENCLOSED STRI					
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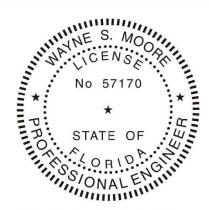


#### **BOW RAFTER LEAN-TO OPTION**



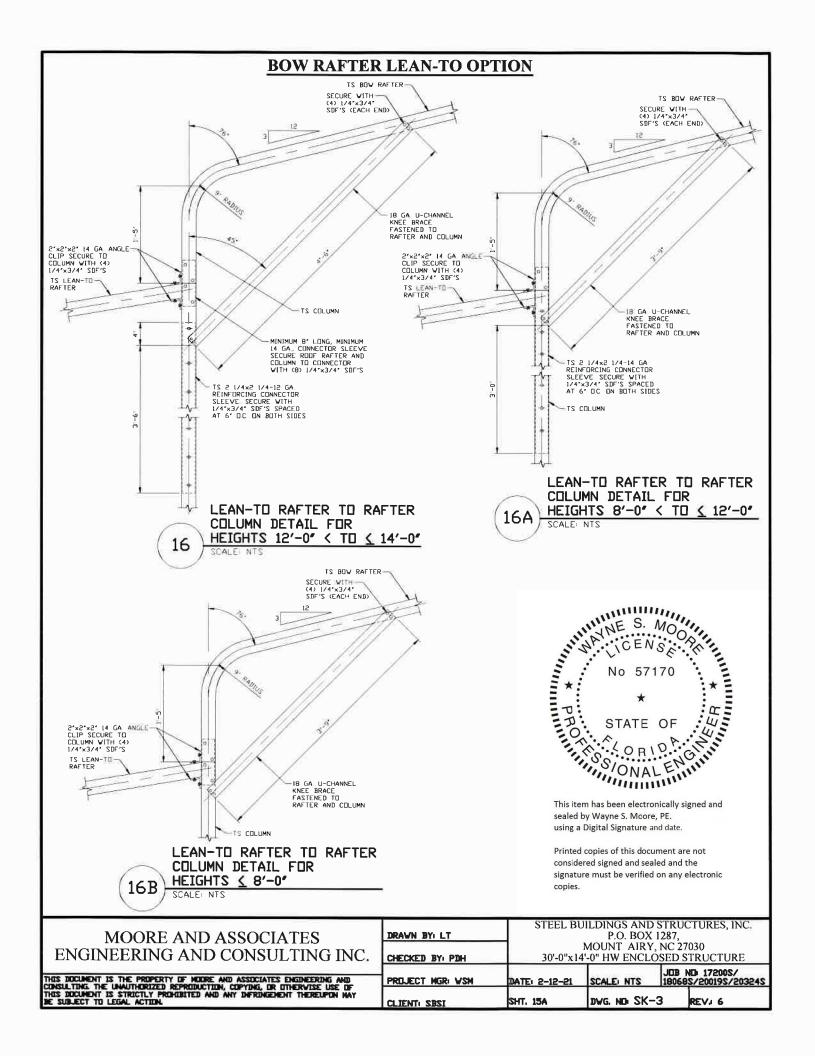
#### TYPICAL BOW EAVE RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: NTS
MAXIMUM WIDTH OF STANDARD ROOF EXTENSION AND LEAN-TO IS 12'-0'
FOR SHARED COLUMN HEIGHTS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT
AND TUBING SPECIFICATIONS.

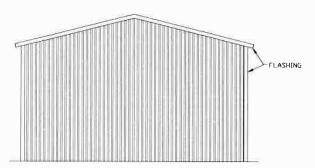


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MOORE AND ASSOCIATES	DRAWN BY: LT	P.O. BOX 1287,				
ENGINEERING AND CONSULTING INC.	CHECKED BY: PDH		MOUNT AIRY, I			
ENGINEERING AND CONSOLTING INC.	CHECKED BTI PDH	30-0 X14 -	30'-0"x14'-0" HW ENCLOSED STRUCTURE			
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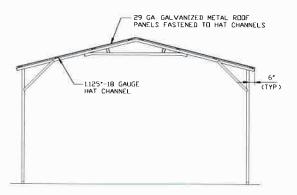


#### **BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION**



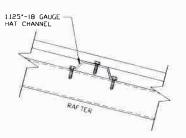
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



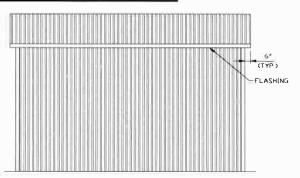
TYPICAL SECTION
VERTICAL ROOF/SIDING OPTION

SCALE: NTS



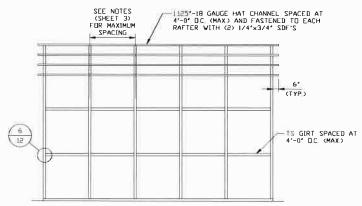
PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS



### TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



### TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



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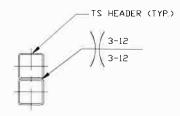
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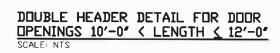
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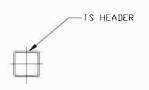
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DRAWN BY: LT		STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287,						

### **OPTIONAL HEADERS**







SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH  $\leq$  10'-0' SCALE: NTS



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