

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 \leq 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:

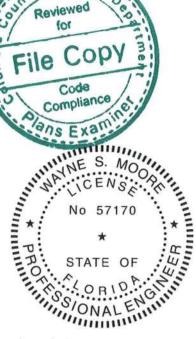
Moore and Associates Engineering and Consulting,

1009 East Avenue North Augusta, SC 29841

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

Wayne Digitally signed by Wayne S Moore Date: 2022.09.22 14:38:02 -04'00'





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DRAWING INDEX

SHEET 1	PE SEAL COVER SHEET
SHEET 2	DRAWING INDEX
SHEET 3	INSTALLATION NOTES AND SPECIFICATIONS
SHEET 4	TYPICAL SIDE AND END ELEVATIONS
SHEET 5	
SHEET 6	COLUMN CONNECTION DETAILS (BOX EAVE RAFTER)
SHEET 7	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION
	(BDW EAVE RAFTER)
SHEET 8	COLUMN CONNECTION DETAILS (BOW EAVE RAFTER)
SHEET 9	BASE RAIL ANCHORAGE
SHEET 9	A BASE RAIL ANCHORAGE OPTION
SHEET 10	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOX EAVE RAFTER)
SHEET 11	
SHEET 12	
SHEET 13	CONNECTION DETAILS
SHEET 14	LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET 14	A LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET 15	LEAN-TO OPTIONS (BOW EAVE RAFTER)
SHEET 15	A LEAN-TO OPTIONS (BOW EAVE RAFTER)
SHEET 16	VERTICAL ROOF/SIDING OPTION END AND SIDE ELEVATION AND SECTION
SHEET 17	OPTIONAL HEADERS



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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 1BC AND 2018 IBC
- 3 DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD

= 15 PSF

B) LIVE LOAD

= 12 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 DTHERWISE)
- 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 DN-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR AND EDGE) = 8 INCHES; 6 INCHES (FL)
- 11 FASTENERS CONSIST OF 1/4°×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 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 FURCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE

SDIL SITE CLASS = D

RISK CATEGURY 1

R= 325 2 es 2 es 2 es 2 es 2 IE= 10 V= CsW

Soi= 1.258 8

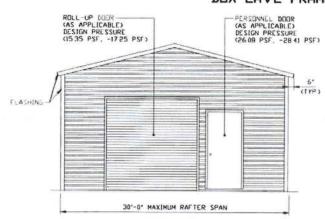
14 WINDOW AND DOOR DESIGN PRESSURES ARE APPLICABLE TO THE STATE OF FLORIDA DNLY

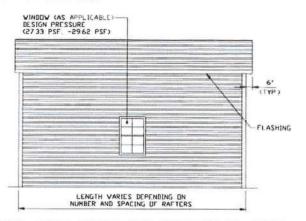


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BOX EAVE FRAME RAFTER STRUCTURE

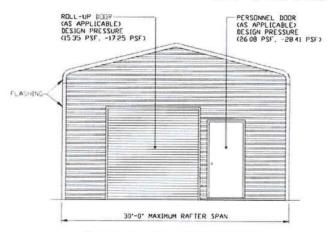




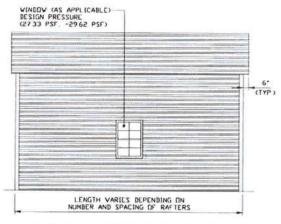
TYPICAL END ELEVATION-HORIZONTAL ROOF

TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

BOW EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION SCALE: NTS

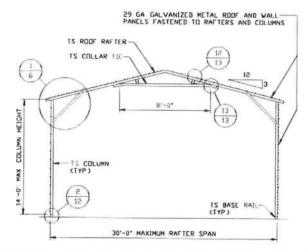




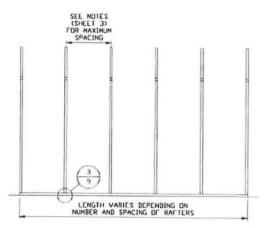


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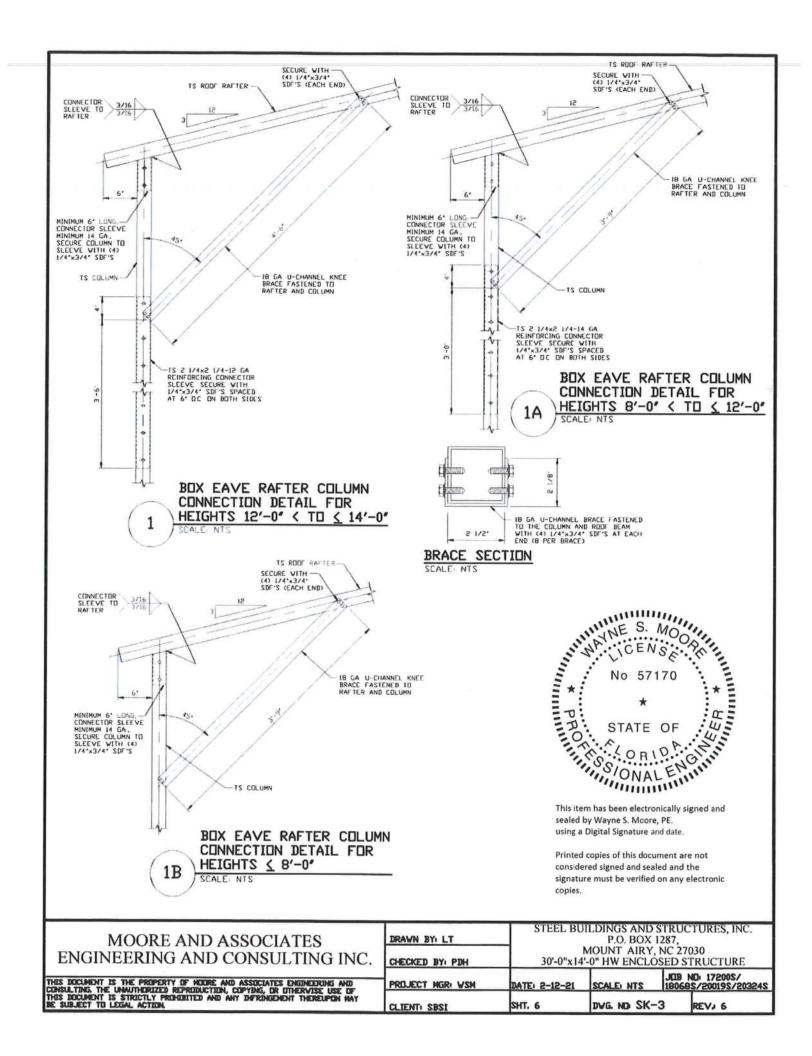


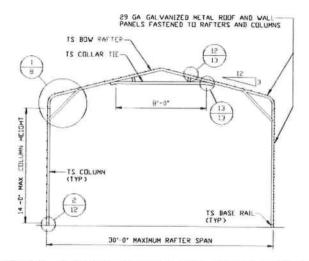
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS



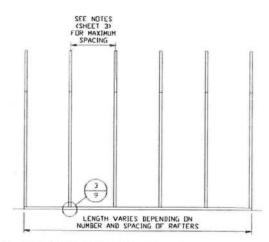
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TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS:

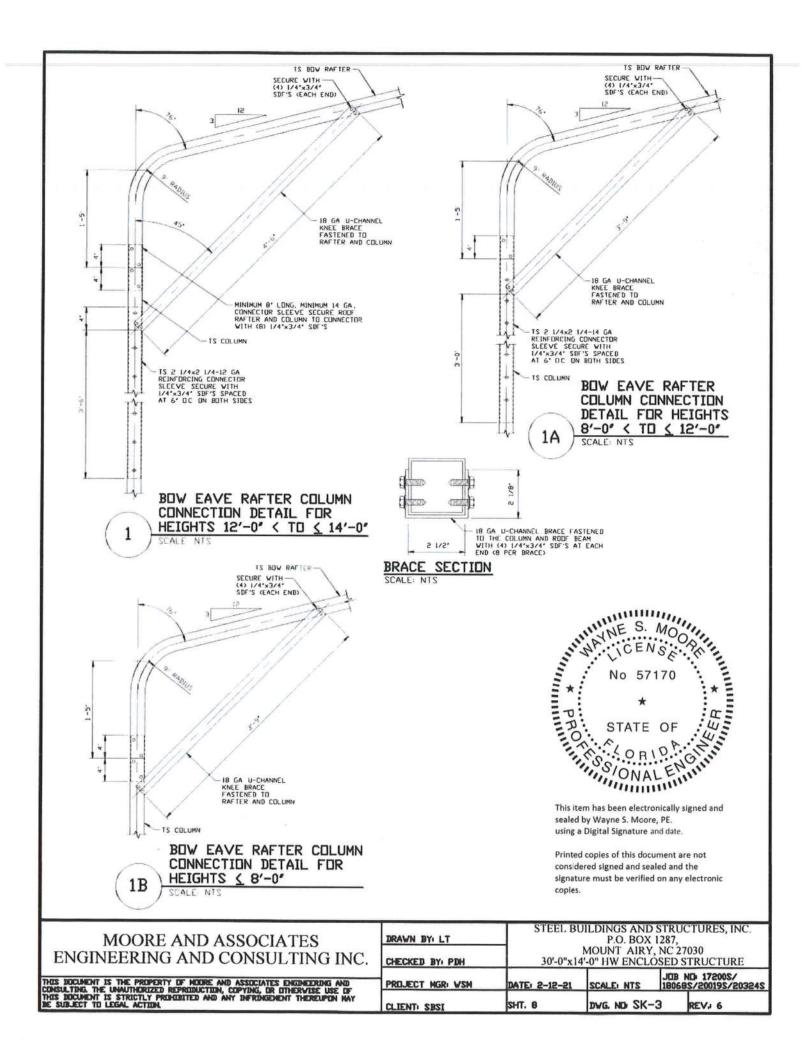


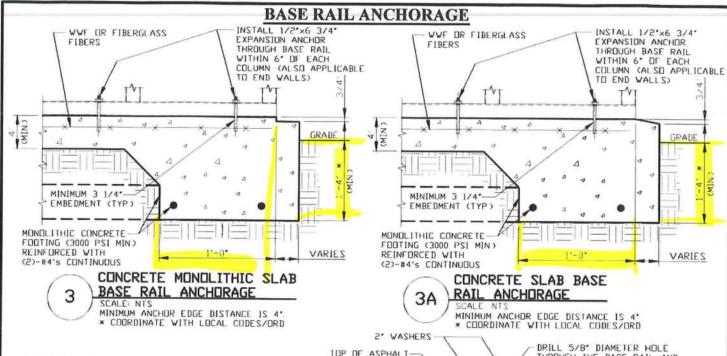
TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION



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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 I 1/2' ELSEWHERE

REINFORCING STEEL

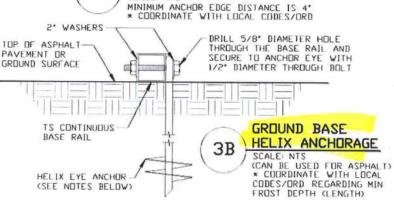
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 THE SLAB REINFORCEMENT SHALL BE VELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT

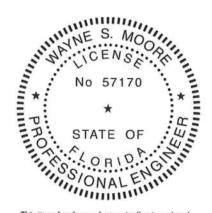
REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

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

HELIX ANCHOR NOTES

- FOR VERY DENSE AND/OR CEMENTED SANDS, CDARSE 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
- 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 LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM 50' EMBEDMENT
- FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) B' HELICES WITH MINIMUM 60' EMBEDMENT

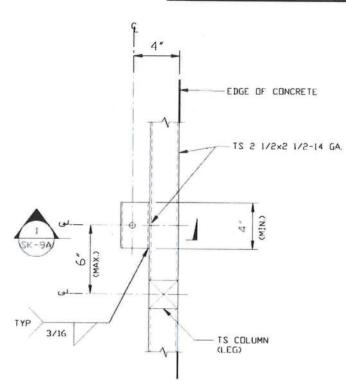


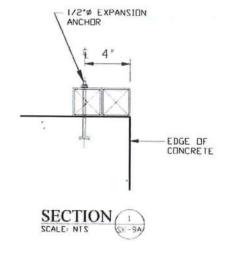


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BASE RAIL ANCHORAGE OPTION





TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

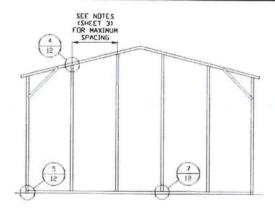
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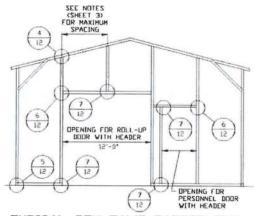
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



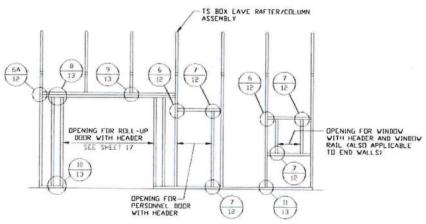
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

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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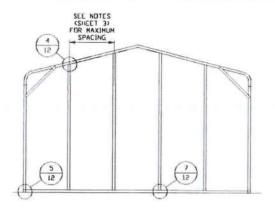
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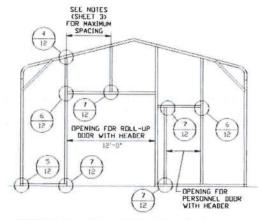
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CLIENT: SBSI	SHT. 10	DVG. ND SK-	REVJ 6				

BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS

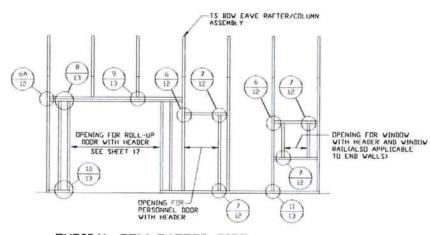


TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS

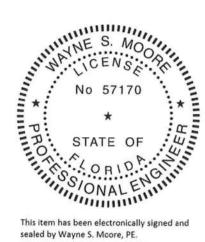


TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION



TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

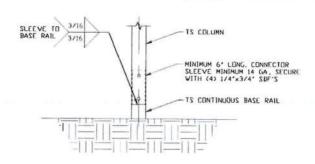
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CONNECTION DETAILS



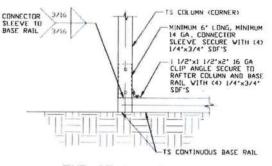
2'x2'x2' 16 GA ANGLE CLIP
SECURE TO COLUMN AND
RAFTER VITH 1/2'x3/4'
SDF'S 2 DN TOP AND 2 DN
SIDE

1S END COLUMN

2 CONNECTION DETAIL

SCALE: NTS

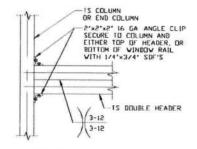
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



TS COLUMN
OR END COLUMN

2" N2" 16 GA ANGLE CLIP
SECURE TO COLUMN AND
ETHER TOP OF HEADER, OR
BOTTOM OF WINDOW RAIL
VITH 1/4" \$3/4" \$DF"\$

TS HEADER OR
WINDOW RAIL



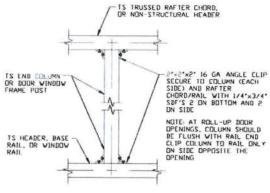
END COLUMN/BASE RAIL CONNECTION DETAIL

SCALE NTS

6 COLUMN OR WINDOW RAIL/GIRT TO POST CONNECTION DETAIL

N DETAIL (6

6A COLUMN OR DOUBLE HEADER TO POST CONNECTION DETAIL



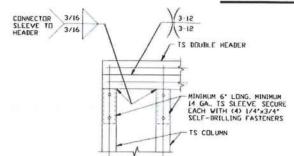
COLUMN TO HEADER, BASE RAIL, OR
WINDOW RAIL CONNECTION DETAIL
SCALE NTS



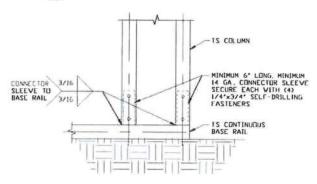
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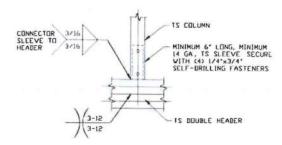
CONNECTION DETAILS



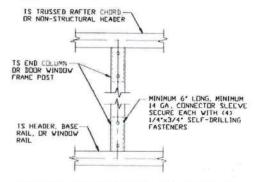
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL SCALE: NTS



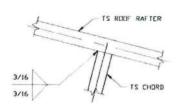
10 COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS



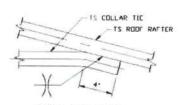
9 COLUMN/DOUBLE HEADER CONNECTION DETAIL SCALE: NTS



COLUMN TO HEADER OR BASE RAIL
CONNECTION DETAIL
SCALE: NTS



RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



13 CONNECTION DETAIL



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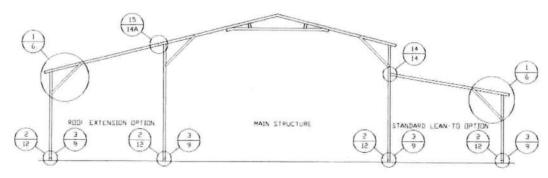
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| STEEL BUILDINGS AND STRUCTURES, INC. | P.O. BOX 1287, | MOUNT AIRY, NC 27030 | 30'-0"x14'-0" HW ENCLOSED STRUCTURE | JOB ND 17200S/ | 18068S/20019S/20324S | SHT. 13 | DVG. ND SK-3 | REV. 6

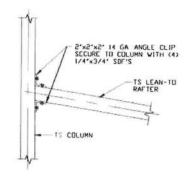
BOX EAVE RAFTER LEAN-TO OPTIONS



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

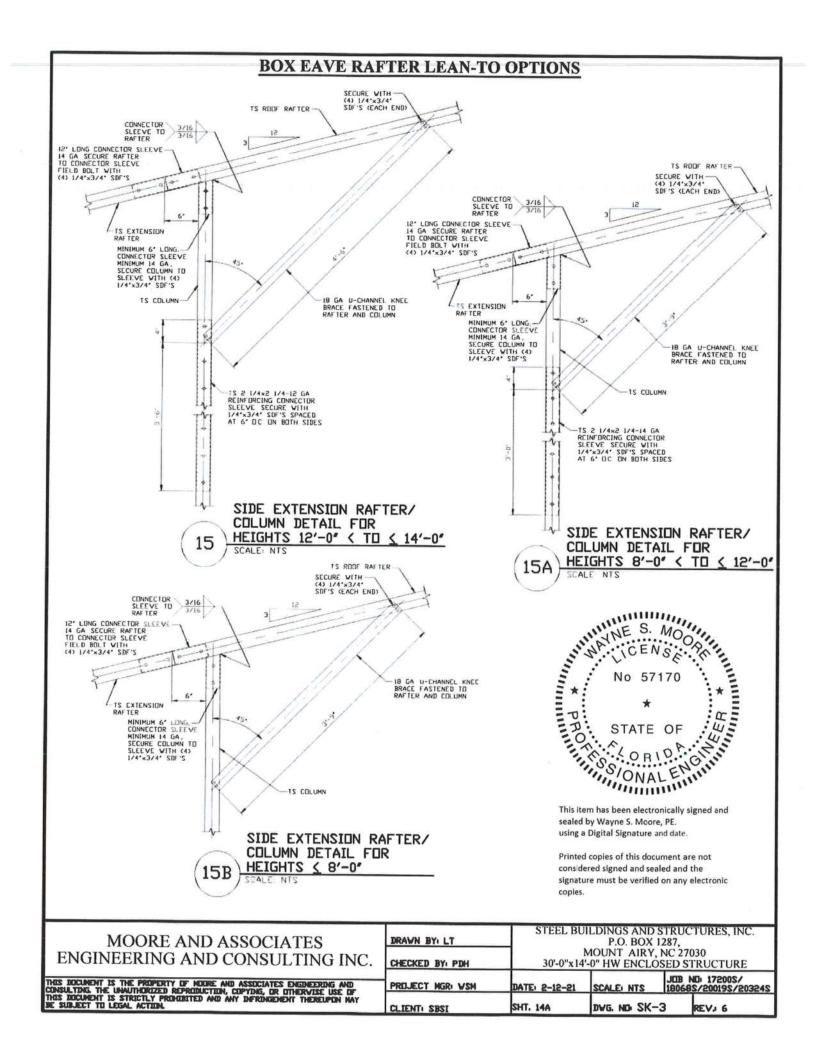


LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
SCALE: NTS

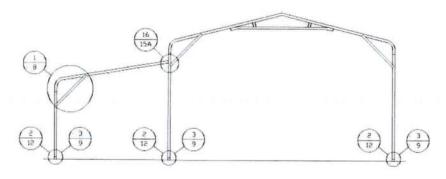


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	PROJECT MGR: VSM	DATE: 2-12-21	SCALE: NTS		ND: 17200\$/ 0\$/20019\$/20324\$		
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BOW RAFTER LEAN-TO OPTION



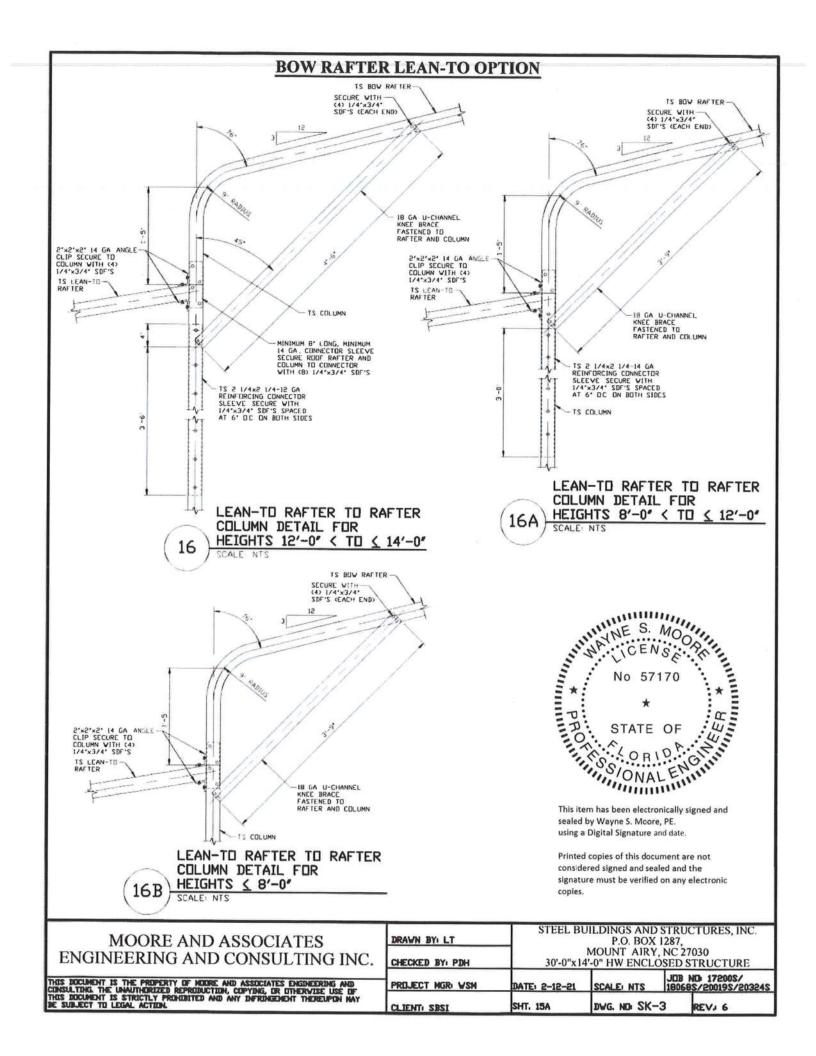
TYPICAL BOW EAVE RAFTER LEAN-TO OPTION FRAMING SECTION

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

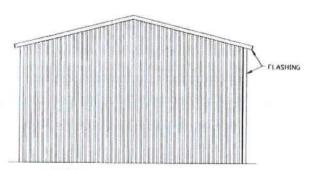


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	PROJECT MGR: VSM	DATE: 2-12-21	SCALE: NTS		ND: 17200S/ 3S/20019S/20324S		
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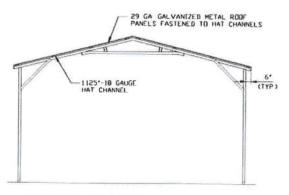


BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION

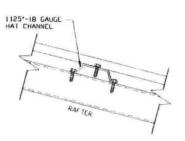


TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

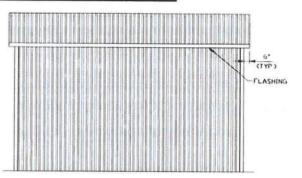


TYPICAL SECTION
VERTICAL ROOF/SIDING OPTION



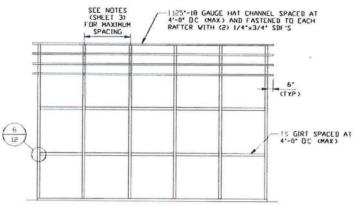
PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

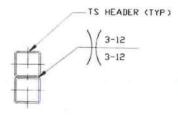
SCALE: NTS

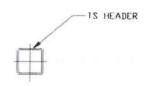


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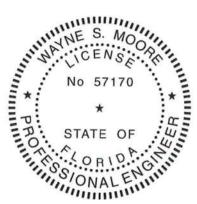
OPTIONAL HEADERS





DOUBLE HEADER DETAIL FOR DOOR OPENINGS 10'-0" (LENGTH \(\) 12'-0"

SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH \(\) 10'-0"



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