

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

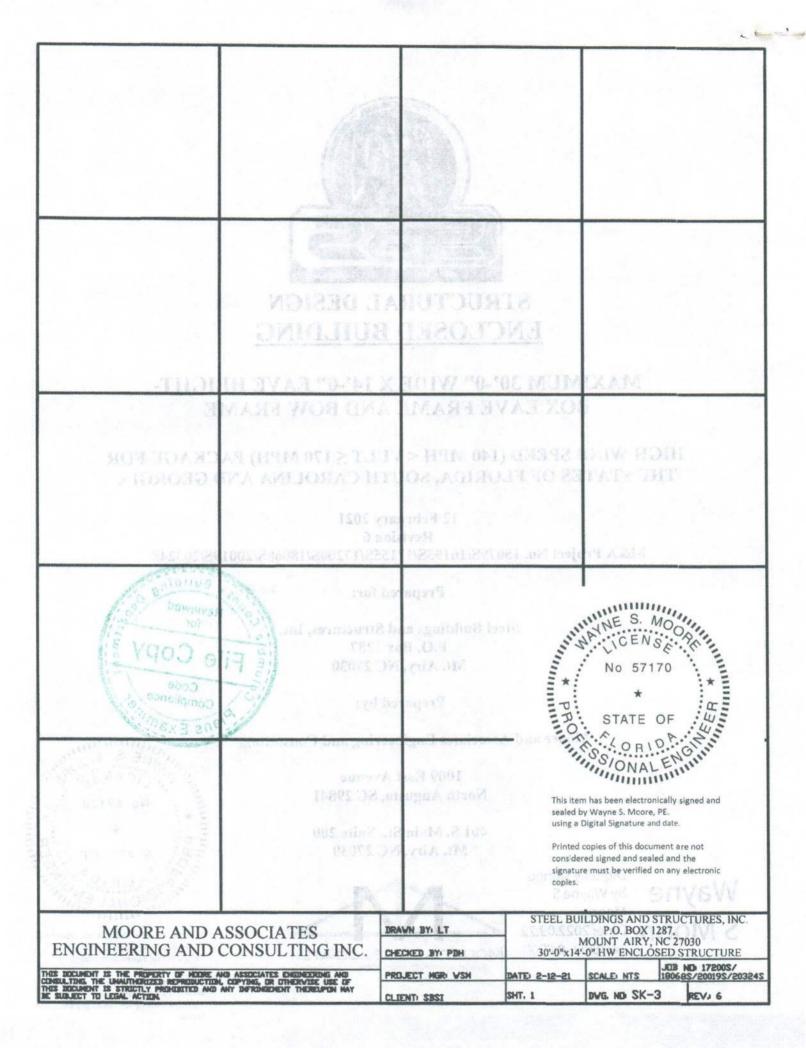
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Reviewed

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MOORE AND ASSOCIATES	DRAWN BY: LT	THE PURCH	JILDINGS AND P.O. BOX	1287,	CHV.	

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 OTHERWISE)
- 7 RISK CATEGORY I
- B. 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 FURCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:

SDIL SITE CLASS = D RISK CATEGORY I

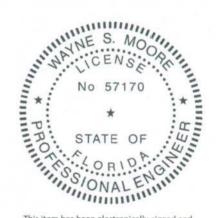
R= 325

 $I_E = 10$ V= $C_S W$

g 9805 = 202

S_{DI}= 1.258 g

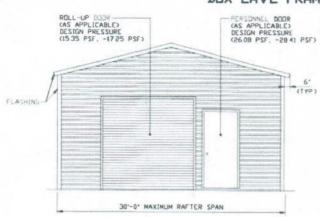
14 WINDOW AND DOOR DESIGN PRESSURES ARE APPLICABLE TO THE STATE OF FLORIDA DNLY



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BOX EAVE FRAME RAFTER STRUCTURE

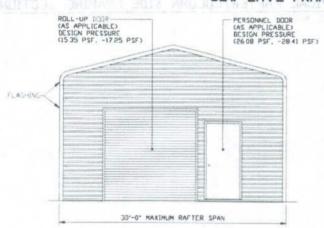


TYPICAL END ELEVATION-HORIZONTAL ROOF
SCALE: NTS

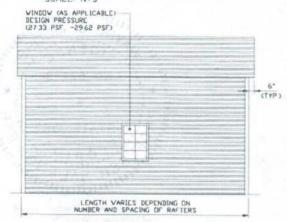
TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

VINDOV (AS APPLICABLE) DESIGN PRESSURE (2733 PSF -2962 PSF) 6. (TYP) FLASHING LENGTH VARIES DEPENDING DN NUMBER AND SPACING DF RAFTERS

BOW EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION



TYPICAL SIDE ELEVATION
SCALE: NTS



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CI TENT, SPST	SHT. 4	DVG. ND SK-	-3	BEV. 6	

29 GA GALVANIZED METAL RODF AND VALL
PANELS FASTENED TO RAFTERS AND COLUMNS

TS RODF RAFTER
TS COLLAR THE

13

12

13

15

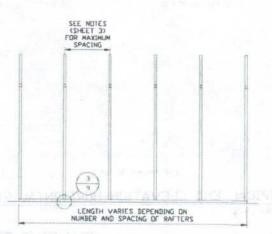
COLUMN

(TYP)

TS BASE RAIL
(TYP)

30'-0' MAXIMUM RAFTER SPAN





TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

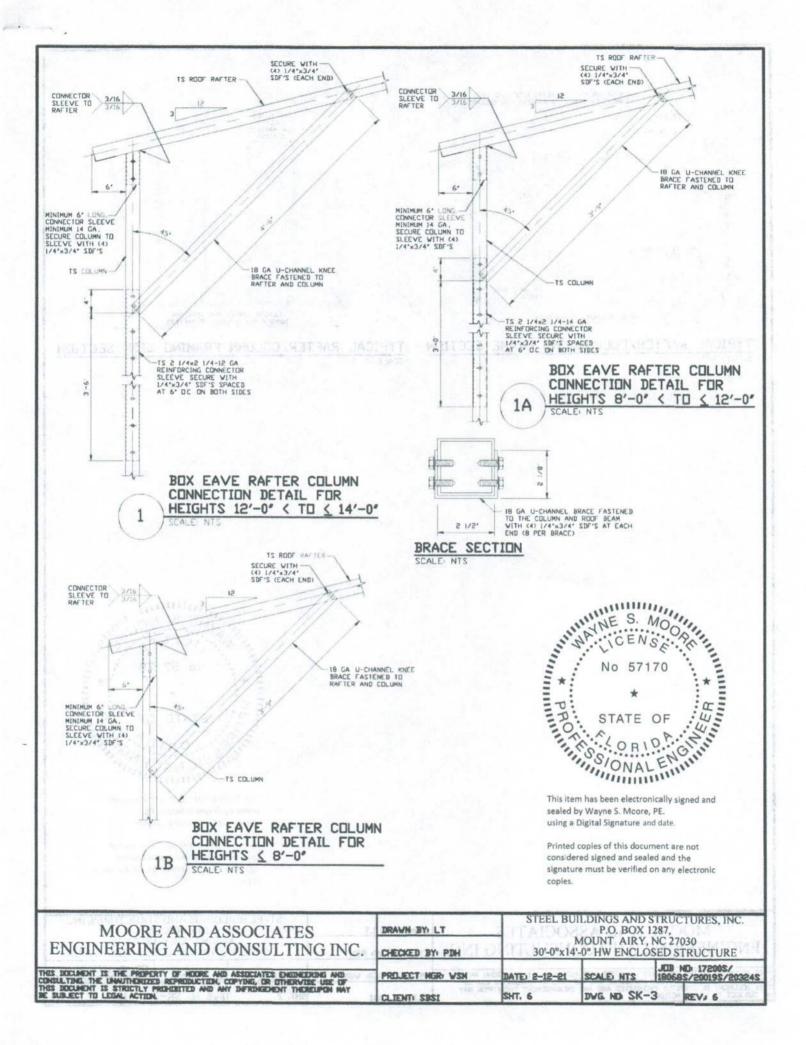


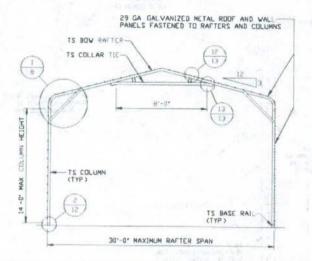
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TYPICAL RAFTER/COLUMN END FRAME SECTION

SEE NOTES
(SHEET 3)
FOR MAXIMUM
SPACING

LENGTH VARIES DEPENDING ON
NUMBER AND SPACING OF RAFFERS

TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

BECKER OF RAFTER COLUMN CONSERVEN BETAUL FOR HETEHTS 12 -01 C TO S. LE-19

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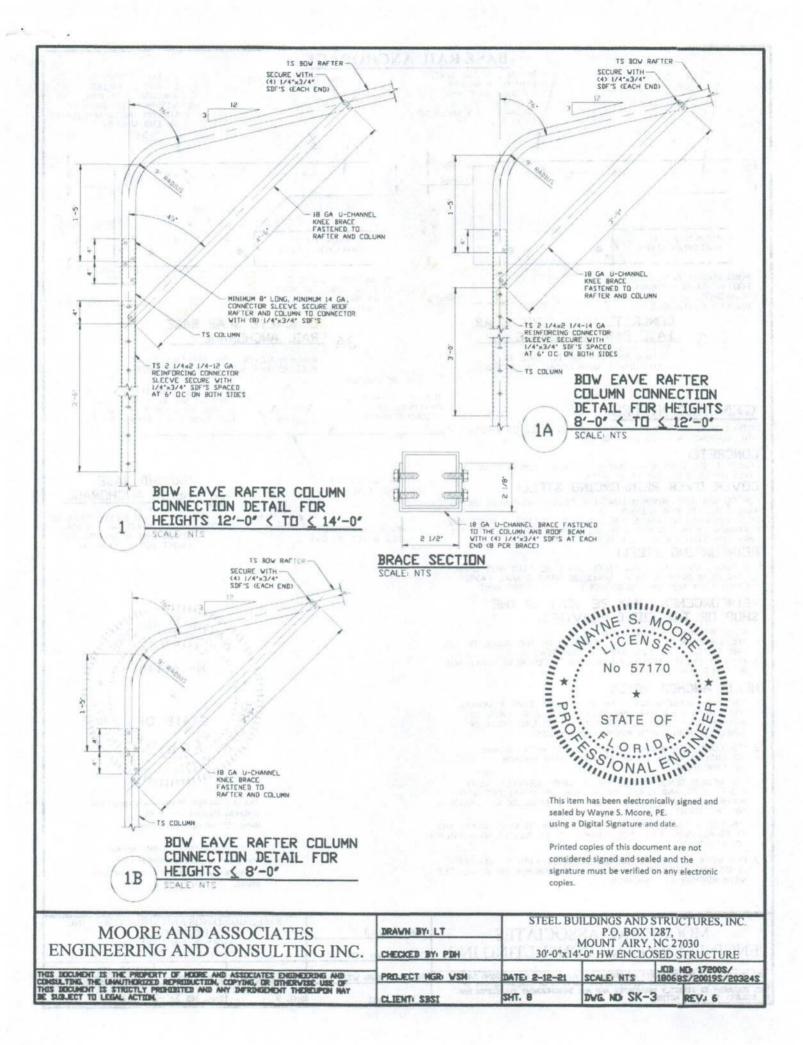
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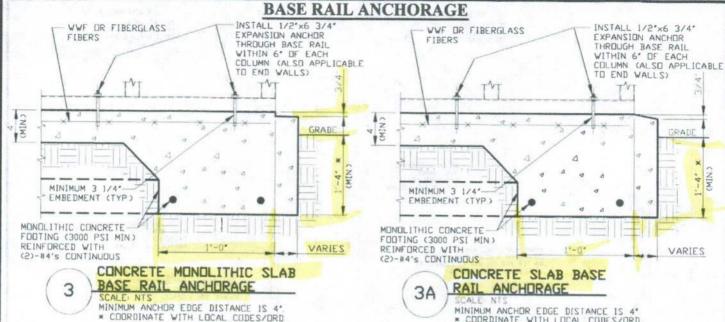
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PROJECT MGR: VSM DATE: 2-12-21 SCALE: NTS

CLIENT: SBSI SHT. 7 DVG. ND SK-3

JUB ND 17200S/ 18068S/20019S/20324S





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 VELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT

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

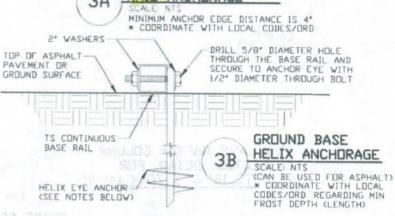
I REINFORCEMENT IS BENT COLD

2 THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS

3 REINFÜRCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT

HELIX ANCHOR NOTES

- I 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 CURAL 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' FMBEDMENT
- 4 FOR LODSE 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) B' HELICES WITH MINIMUM 60' EMBEDMENT.

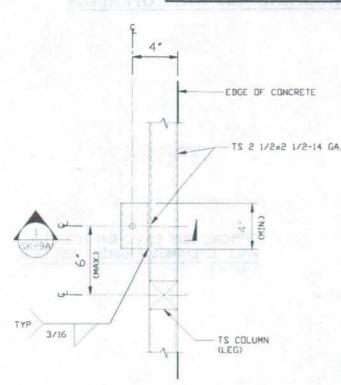




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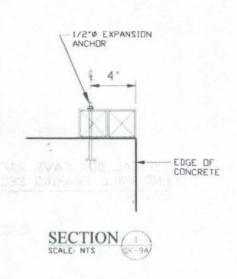
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BASE RAIL ANCHORAGE OPTION



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



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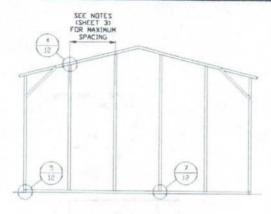
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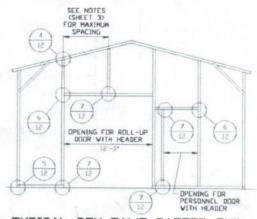
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CHECKED BY: PDH		HOUNT AIRY			
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



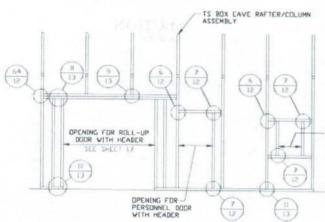
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



DPENING FOR WINDOW WITH HEADER AND WINDOW RAIL (ALSD APPLICABLE TO END WALLS)

TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



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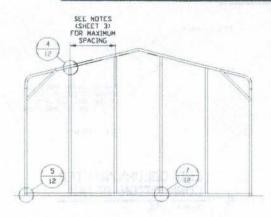
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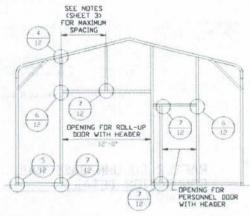
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BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



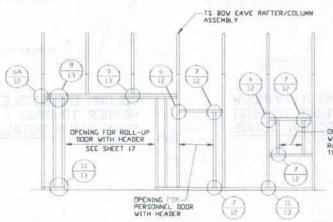
TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

DPENING FOR VINDOV VITH HEADER AND VINDOV RAILCALSO APPLICABLE TO END VALLS)



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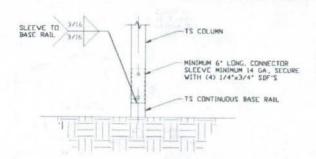
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CONNECTION DETAILS

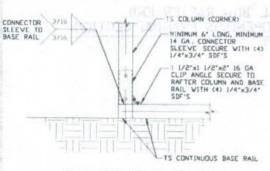


TS ROOF RAFTER 2'x2'x2' 16 GA ANGLE CLIP SECURE TO COLUMN AND RAFTER WITH 1/4'x3/4" SDF'S 2 DN TOP AND 2 DN TS END COLUMN

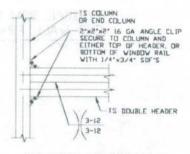
RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS

END COLUMN/RAFTER CONNECTION DETAIL SCALE: NTS



TS COLUMN OR END COLUMN 2'x2'x2' 16 GA ANGLE CLIP SECURE TO COLUMN AND EITHER TOP OF HEADER, OR BOTTOM OF WINDOW RAIL WITH 1/4'x3/4' SDF'S TS HEADER DR



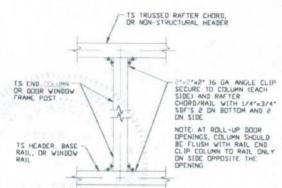
END COLUMN/BASE RAIL CONNECTION DETAIL

5

6

COLUMN OR WINDOW RAIL/GIRT TO POST CONNECTION DETAIL

COLUMN OR DOUBLE HEADER TO POST CONNECTION DETAIL 6A



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



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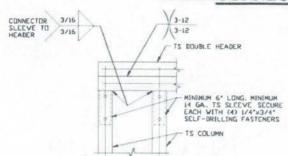
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REV. 6

DVG. ND SK-3

CHECKED BY: PDH JOB NO 17200S/ PROJECT MGRI WSM DATE: 2-12-21 SCALE: NTS 180685/200195/203245

CONNECTION DETAILS



CONNECTOR 3/16
SLEEVE TO HEADER

3/16

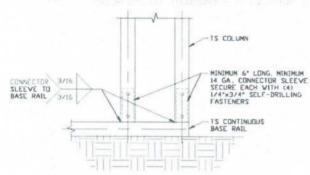
MINIMUM 6' LONG, MINIMUM 14 GA, TS SLEEVE SECURE WITH (4) 1/4*x3/4' SELF-DRILLING FASTENERS

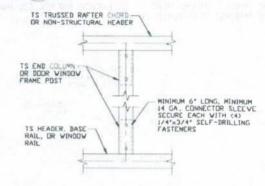
3-12

TS DDUBLE HEADER

8 CONNECTION DETAIL
SCALE: NTS

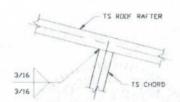
9 COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS





10 COLUMN/BASE RAIL CONNECTION DETAIL

11 COLUMN TO HEADER OR BASE RAIL
CONNECTION DETAIL
SCALE: NTS



TS COLLAR TIE
TS ROOF RAFTER

12 RAFTER TO CHORD CONNECTION DETAIL

13 COLLAR TIE CONNECTION DETAIL

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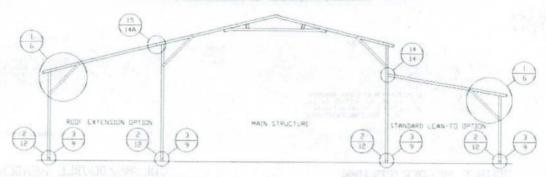
PRIJECT MGR: WS

DRAWN BY: LT

STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x14'-0" HW ENCLOSED STRUCTURE

PROJECT MGR: WSM DATE: 2-12-21 SCALE: NTS JUB ND: 172005/ 180685/200195/203245

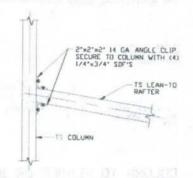
BOX EAVE RAFTER LEAN-TO OPTIONS



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



14 COLUMN CONNECTION DETAIL



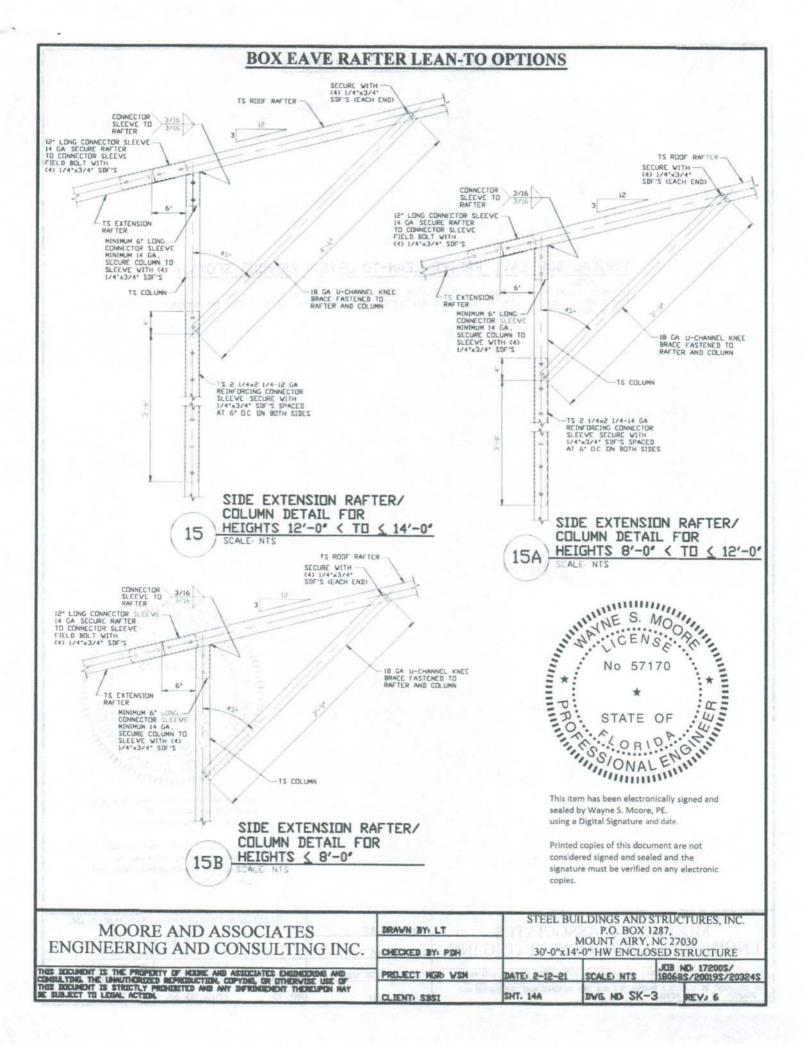
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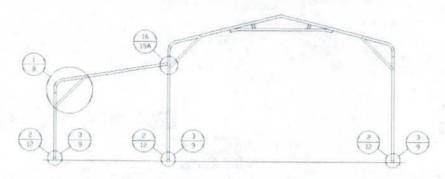
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ENGINEERING AND CONSULTING	INC.

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180	PROJECT MGR: VSM	DATE: 2-12-21	SCALE NTS	JUB	ND: 17200S/ -8S/20019S/20324S
1	CLIENT: SBSI	SHT. 14	DVG. NO SK	-3	REVA 6



BOW RAFTER LEAN-TO OPTION



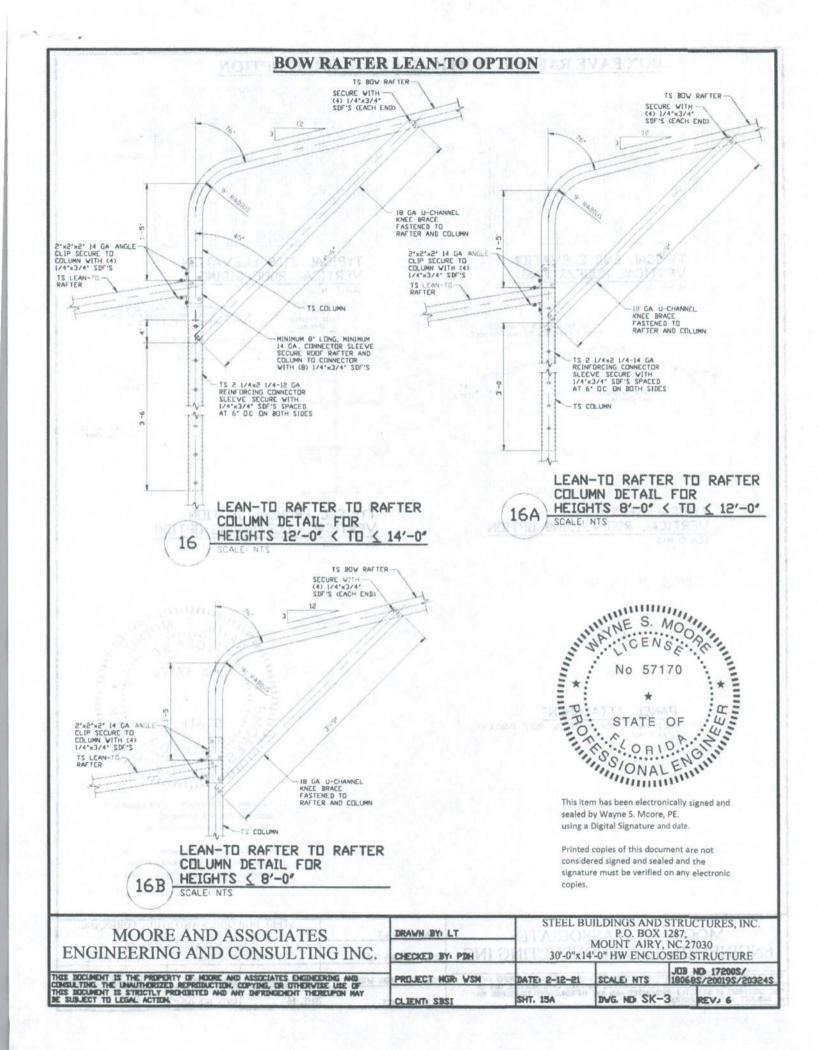
TYPICAL BOW EAVE RAFTER LEAN-TO OPTION FRAMING SECTION

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

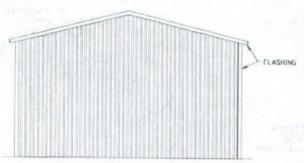


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ENGINEERING AND CONSULTING INC.	CHECKED BY PDH		MOUNT AIRY, NC 270 30'-0"x14'-0" HW ENCLOSED ST			
MOORE AND ASSOCIATES	DRAWN BY: LT	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287,				

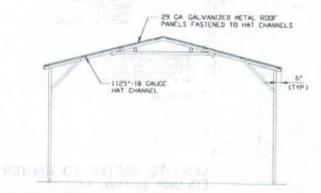


BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION

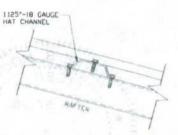


TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

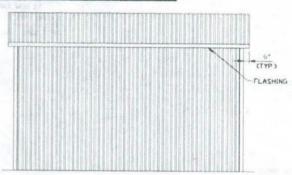


TYPICAL SECTION VERTICAL ROOF/SIDING OPTION SCALE NTS



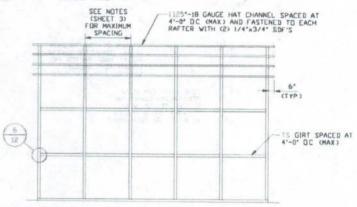
PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION



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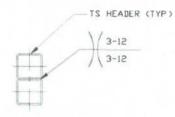
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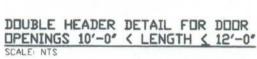
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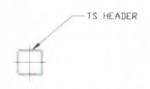
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	CHECKED BY POH	30'-0"x14	7030 STRUCTURE				
12	PROJECT NGR: VSM	DATE: 2-12-21	SCALE NTS	JUB 1806	ND: 17200S/ 8S/20019S/20324S		
	CLIENTI SBSI	SHT. 16	DAG NO SK-	-3	REVA 6		

OPTIONAL HEADERS







SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH & 10'-0'



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