

STRUCTURAL DESIGN FULLY OPEN (CARPORT) BUILDING

MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT-BOX EAVE FRAME AND BOW FRAME

11 December 2020 Revision 9 M&A Project No. 16062S/16155S/16207S/17155S/17200S/18068S/18156S/18290S/20019S/20324S

Prepared for:

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

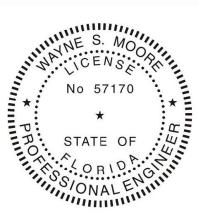
Prepared by:

Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

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





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				JUB NO 18068S/18156		
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INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR MAXIMUM 30'-0' WIDE x 20'-0' EAVE HEIGHT OPEN CARPORT STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) 7TH EDITION, 2018 NORTH CAROLINA BUILDING CODE, 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC, 2012 IBC, 2015 IBC AND 2018 IBC
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD = 1.5 PSF B) LIVE LOAD = 12 PSF

C) GROUND SNOW LOAD = 30 PSF (\leq 26'-0"), 35 PSF (26'-0" \leq W \leq 30'-0")

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

- 4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) = 105 TO 145 MPH (NOMINAL WIND SPEED = 82 TO 112 MPH):
- 5 MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 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 R
- 9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 10. AVERAGE FASTENER SPACING UN-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8 INCHES.
- 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 COLUMN
- 13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG AND MAY BE USED IN SUITABLE SOILS.

 OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
- 14, WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:

SOIL SITE CLASS = D RISK CATEGORY I

R = 3.25 $I_E = 1.0$ $V = C_S W$

 $S_{Di} = 1.258 g$



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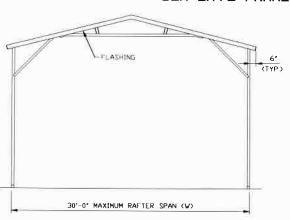
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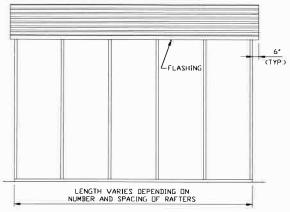
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BOX EAVE FRAME RAFTER STRUCTURE



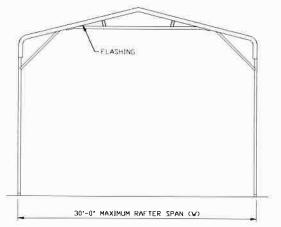


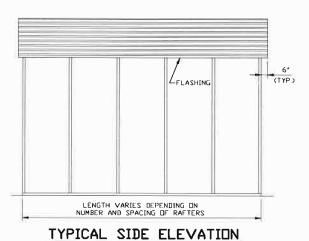
TYPICAL END ELEVATION

TYPICAL SIDE ELEVATION

SCALE: NTS

BOW EAVE FRAME RAFTER STRUCTURE





TYPICAL END ELEVATION
SCALE: NTS

SCALE: NTS



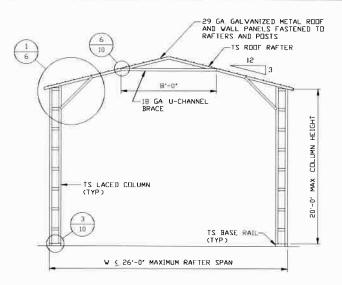
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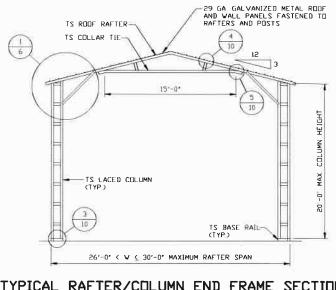
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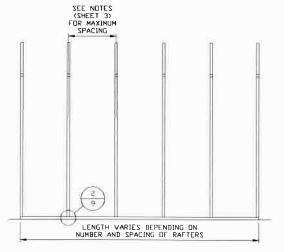
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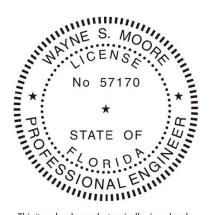
TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



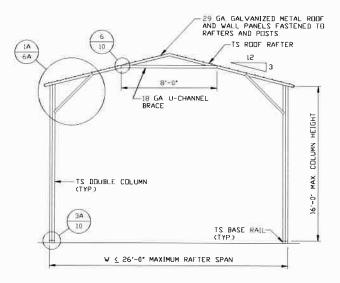
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

TS ROOF RAFTER

TS COLLAR TIE

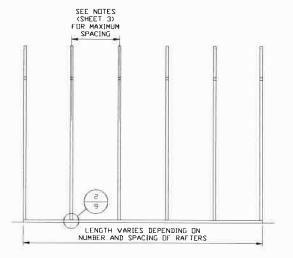
TS DOUBLE COLUMN

TS BASE RAIL

TS BASE RAIL

TS PASSE RAIL

TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

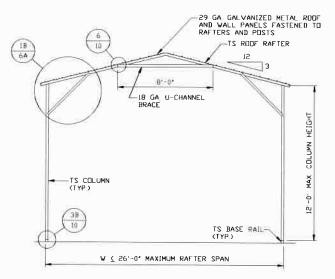


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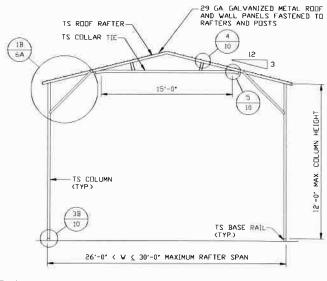
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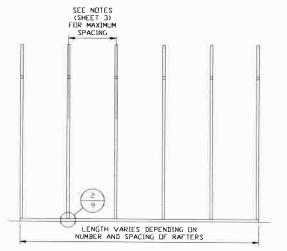
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TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

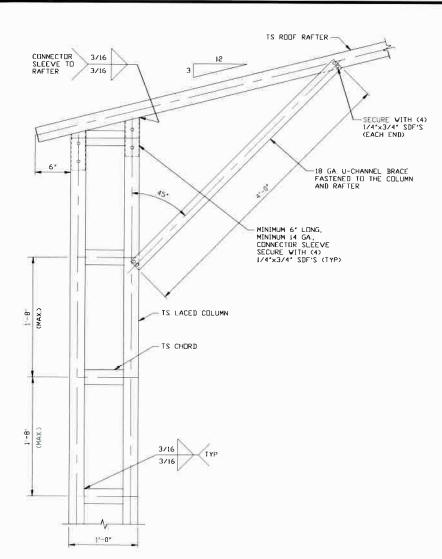


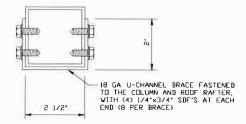
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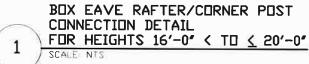
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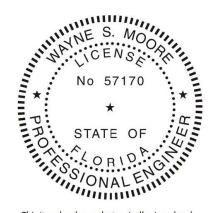
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BRACE SECTION SCALE: NTS



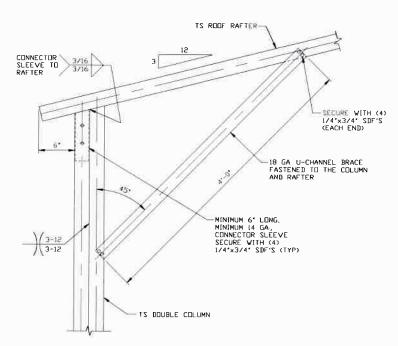


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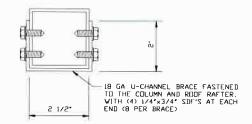
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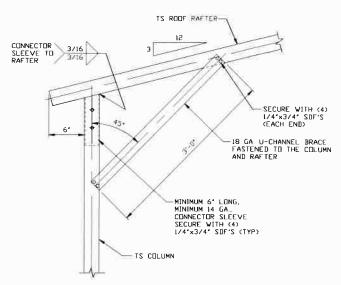


BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS 12'-0' < TO < 16'-0'



BRACE SECTION SCALE: NTS



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

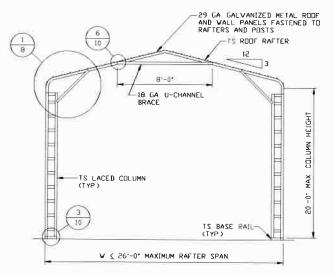
FOR HEIGHTS & 12'-0'

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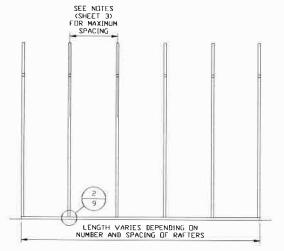
TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

TS BOW RAFTER TS COLLAR THE 15'-0' TS BASE RAIL (TYP)

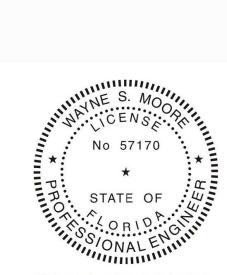
15'-0' TS BASE RAIL (TYP)

26'-0' (V & 30'-0' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

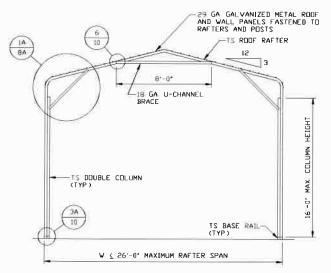


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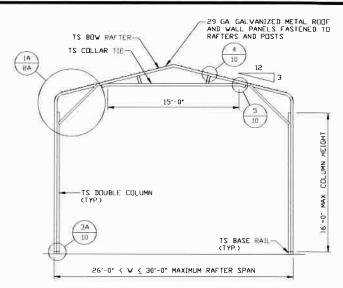
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PROJECT MGR: VSM CLIENT: SBSI	DATE: 12-11-20 SHT. 7	DVG. ND: SK-1		20019S/20324S V.i 9		
		JUB NO: 18068S/18156S				
CHECKED BY: PDH	30'-0"x2	30'-0"x20'-0" FULLY OPEN STRUCTURE				
		MOUNT AIRY, NC 27030				
DRAWN BY: LT		P.O. BOX 1287,				
	STEEL BU	ILDINGS AND :	STRUCT	URES, INC.		

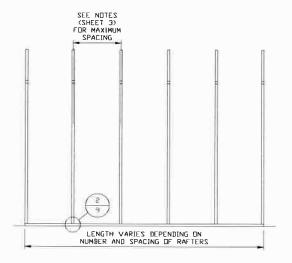


TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS



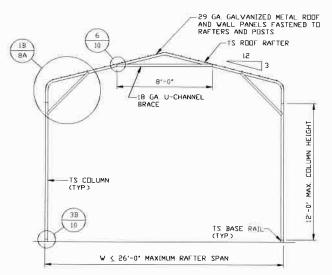
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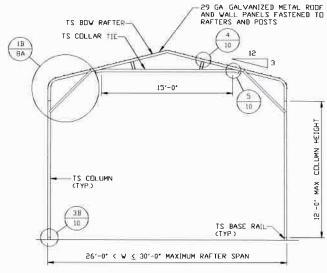
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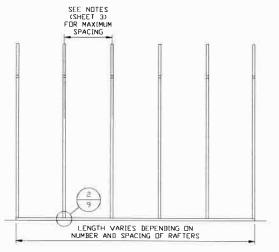
	CLIENT: SBSI	SHT. 7A	DWG. NO SK-1		REV.: 9	
_	PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS	JOB 1	NO: 18068\$/18156\$ \$/20019\$/20324\$	
	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" FULLY OPEN STRUCTURE				
	DRAWN BY: LT	P.O. BOX 1287,				



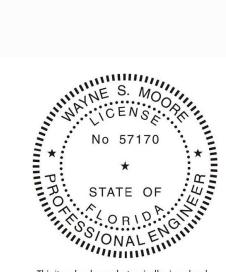
TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

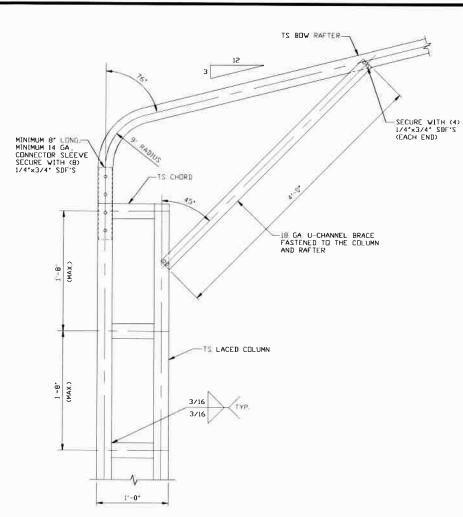


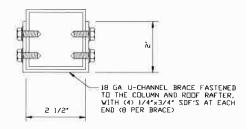
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CLIENT: SBSI	SHT. 78	DVG. ND: SK-1	l i	REV.i 9	
PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS	18290	S/20019S/20324S	
	JUB ND: 180682/181563				
CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" FULLY OPEN STRUCTURE				
	1 ,	MOUNT AIRY, NC 27030			
DRAWN BY: LT	P.O. BOX 1287,				
	STEEL BUILDINGS AND STRUCTURES, INC.				





BRACE SECTION

SCALE: NTS

BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL
FOR HEIGHTS 16'-0' < TO < 20'-0'
SCALE: NTS

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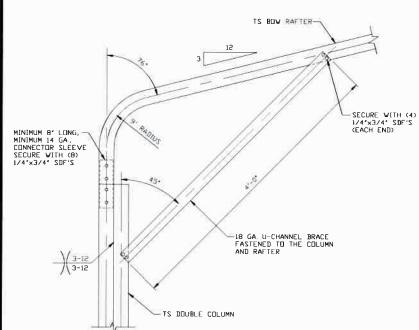
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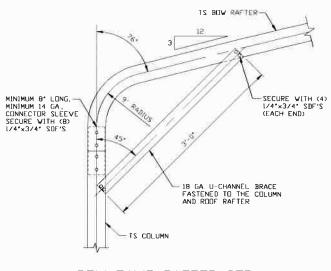
		JOB NO 18068S/1815		
CHECKED BY: PDH	30'-0"x20'-0" FULLY OPEN STRUCTURE			
	MOUNT AIRY, NC 27030			
DRAWN BY: LT	P.O. BOX 1287,			
	STEEL BUILDINGS AND STRUCTURES, INC.			

PROJECT MGR: VSM DATE: 12-11-20 SCALE: NTS 18290S/20019S/20324S

CLIENT: SBSI SHT. 8 DVG. ND: SK-1 REV.: 9

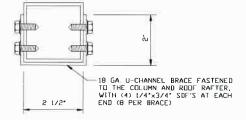


BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0" 1A SCALE: NTS



BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 12'-0"

1B SCALE: NTS

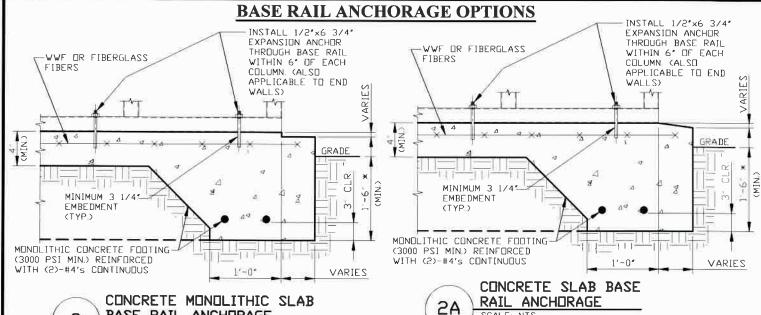


BRACE SECTION
SCALE: NTS



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		STEEL BU	ILDINGS AND	STRUC	CTURES, INC.
MOORE AND ASSOCIATES	DRAWN BY: LT		P.O. BOX	1287,	
ENCOREDDIC AND CONGULTOIC DIC		7	MOUNT AIRY,	NC 27	030
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"x2	0'-0" FULLY O	PEN ST	RUCTURE
				JOB	ND 18068S/18156S
This document is the property of hoore and associates engineering and consulting, the unauthorized reproduction, copying, or otherwise use of	PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS	18290	0\$/20019\$/20324\$
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CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4". * COORDINATE WITH LOCAL CODES/ORD

GENERAL NOTES

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

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 WELDED 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

HELIX ANCHOR NOTES:

- 1 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 CORAL 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
- FOR LOOSE 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) 8' HELICES
 WITH MINIMUM 60' EMBEDMENT.



HELIX EYE ANCHOR (SEE NOTES BELOW)

TS CONTINUOUS BASE RAIL

SCALE: NTS

HELIX ANCHORAGE SCALE: NTS (CAN BE USED FOR ASPHALT)

GROUND BASE

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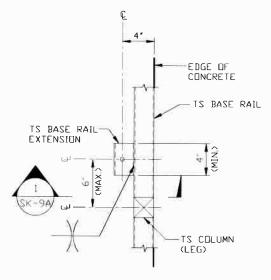
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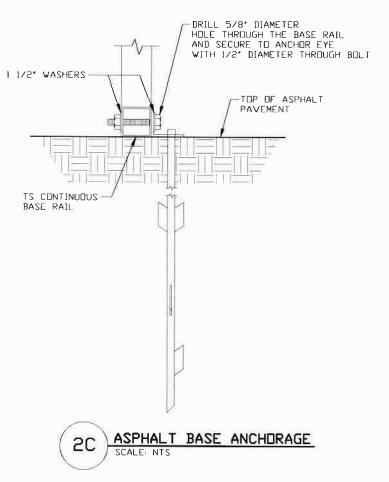
	STEEL BUILDINGS AND STRUCTURES, INC.			
DRAWN BY: LT	P.O. BOX 1287,			
	MOUNT AIRY, NC 27030			
CHECKED BY: PDH	30'-0"x20'-0" FULLY OPEN STRUCTURE			
PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS	JOB 1	ND: 180685/181565 IS/20019S/20324S
CLIENT: SBSI	SHT. 9	DWG. ND: SK-1		REV. 9

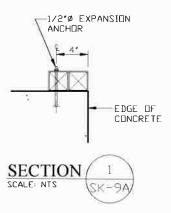
ADDITIONAL BASE RAIL ANCHORAGE OPTION



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS







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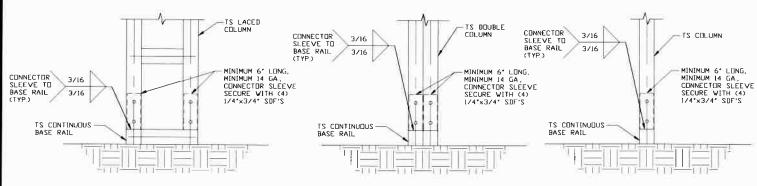
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8156S 324S			
P.O. BOX 1287,			
P.O. BOX 1287, MOUNT AIRY, NC 27030			

CONNECTION DETAILS

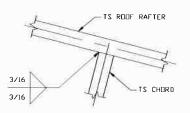


3 POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS

3A POST/BASE RAIL CONNECTION DETAIL

SCALE: NTS

3B POST/BASE RAIL CONNECTION DETAIL SCALE: NTS



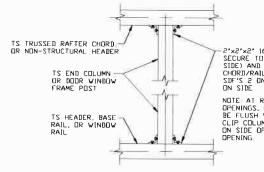
TS COLLAR TIE TS ROOF RAFTER

ATTACH COLLAR TIE
TO RODE RAFTER WITH
(4) 1/4*x3/4*
SDF'S (ROCH END)

4 RAFTER TO CHORD CONNECTION DETAIL
SCALE NTS

5 COLLAR TIE CONNECTION DETAIL

6 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



2'x2'x2' 16 GA ANGLE CLIP
SECURE TID COLUMN (FACH
SIDE) AND RAFTER
CHORD/RAIL WITH 1/4'x3/4'
SDF'S 2 ON BOTTOM AND 2
ON SIDE
NOTE AT ROLL-UP DOOR
OPENINGS, COLUMN SHOULD
BE FLUSH WITH RAIL END
CLIP COLUMN TO RAIL ONLY
ON SIDE OPPOSITE THE
OPENING.

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

SCALE NTS



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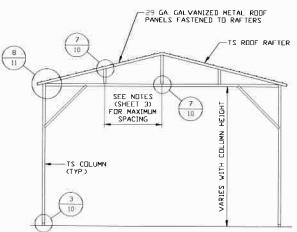
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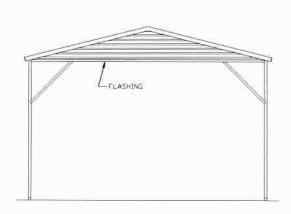
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		MOUNT AIRY, NC 27030			
•	CHECKED BY: PDH	30'-0"x20'-0" FULLY OPEN STRUCTURE			
		JUB ND: 18068S/18156S			
	PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS	18290	\$/20019\$/20324\$
	CLIENT: SBSI	SHT. 10	DWG, NO: SK-1		REV. 9

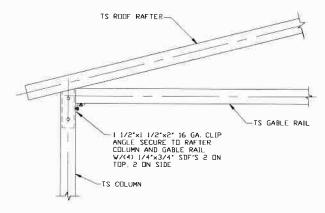
BOX EAVE GABLE END OPTION



TYPICAL GABLE END FRAMING SECTION



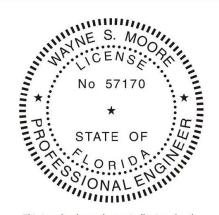
TYPICAL GABLE END ELEVATION SCALE: NTS



BOX EAVE RAFTER GABLE RAIL TO RAFTER COLUMN CONECTION DETAIL

SCALE: NTS NOTE: KNEE BRACE NOT SHOWN FOR CLARITY

8



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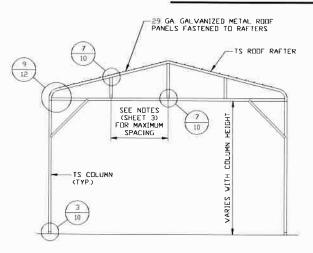
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CLIENT: SBSI	SHT. 11	DVG. NO SK-	1	REV. 9	
PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS		ND: 18068\$/18156\$ 0\$/20019\$/20324\$	
CHECKED BY: PDH		MOUNT AIRY, NC 27030 30'-0"x20'-0" FULLY OPEN STRUCTURE			
DRAWN BY: LT		P.O. BOX 1287,			
	STEEL BU	STEEL BUILDINGS AND STRUCTURES, INC.			

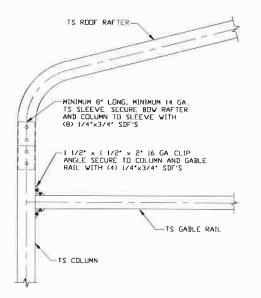
BOW EAVE GABLE END OPTION



TYPICAL GABLE END FRAMING SECTION

LFLASHING

TYPICAL GABLE END ELEVATION
SCALE: NTS



BOW EAVE RAFTER GABLE RAIL TO RAFTER COLUMN CONNECTION DETAIL

SCALE: NTS NOTE: KNEE BRACE NOT SHOWN FOR CLARITY

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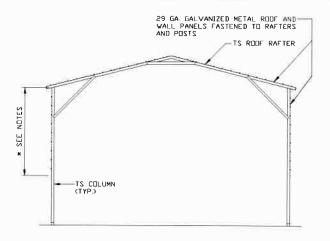
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PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS	JOB NO: 180685/181565 182905/200195/203245		
CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" FULLY OPEN STRUCTURE				
DRAWN BY: LT	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287,				

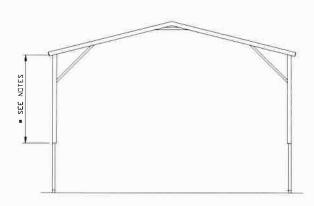
CLIENT: SBSI SHT. 12 DVG. ND: SK-1 REV. 9

BOX EAVE EXTRA SIDE PANEL OPTION



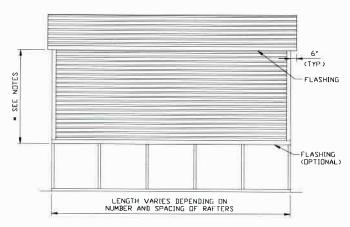
TYPICAL END FRAME SECTION EXTRA SIDE PANELS

SCALE: NTS



TYPICAL END ELEVATION EXTRA SIDE PANELS

SCALE: NTS



TYPICAL SIDE ELEVATION EXTRA SIDE PANELS

SCALE: NTS

NOTES:

- * FULL SIDING (FOR EAVE HEIGHTS 12'-0" < TO \leq 20'-0")
- * NO SIDING (FOR EAVE HEIGHTS 10'-0" < TO < 12'-0" WITH SINGLE COLUMN CONFIGURATION)
- * 3'-0" MAX, (FOR EAVE HEIGHTS < 10'-0")



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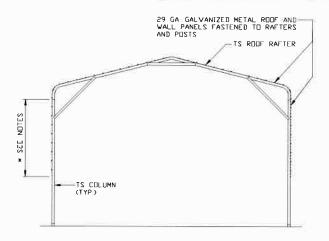
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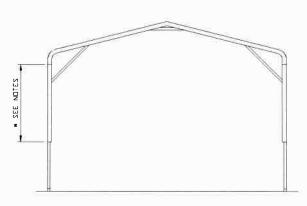
	CI TENT. CDCI	SHT. 13	DVG. NO. SK-1		REV. 9
	PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS		\$/20019\$/20324\$
				JOB J	ND 18068S/18156S
•	CHECKED BY: PDH	30'-0"x20'-0" FULLY OPEN STRUCT			
		l I	030		
	DRAWN BY: LT		287,		
		2 LEET BOI	LDINGS AND S	STRUC	TURES, INC.

BOW EAVE EXTRA SIDE PANEL OPTION



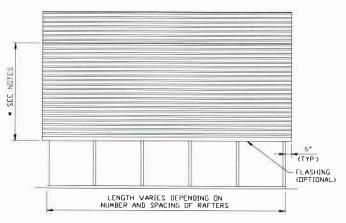
TYPICAL END FRAME SECTION EXTRA SIDE PANELS

SCALE: NTS



TYPICAL END ELEVATION EXTRA SIDE PANELS

SCALE: NTS

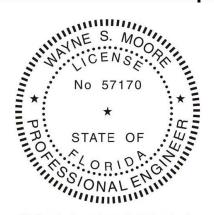


TYPICAL SIDE ELEVATION EXTRA SIDE PANELS

SCALE: NTS

NOTES:

- * FULL SIDING (FOR EAVE HEIGHTS 12'-0" (TO < 20'-0")
- * NO SIDING (FOR EAVE HEIGHTS 10'-0" < TO < 12'-0" WITH SINGLE COLUMN CONFIGURATION)
- * 3'-0" MAX (FOR EAVE HEIGHTS < 10'-0")



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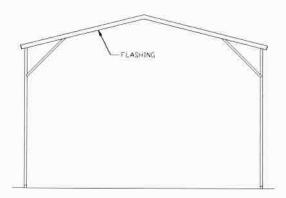
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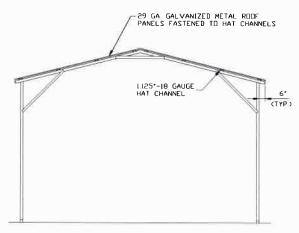
CLIENT: SBSI	SHT. 14	DVG. NO SK-	-1	REV. 9	
PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS	JOB 18290	ND 180685/181565 05/200195/203245	
CHECKED BY: PDH		MOUNT AIRY, NC 27030 30'-0"x20'-0" FULLY OPEN STRUCTURE			
DRAWN BY: LT	STEEL BU	1287,			

VERTICAL ROOF OPTION



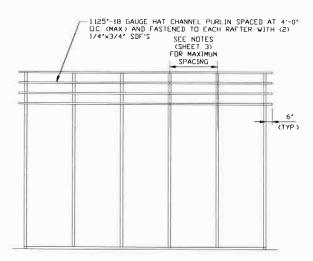
TYPICAL END ELEVATION VERTICAL ROOF

SCALE: NTS



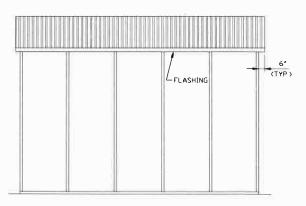
TYPICAL SECTION VERTICAL ROOF OPTION

SCALE: NTS



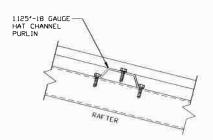
TYPICAL SIDE FRAMING SECTION VERTICAL ROOF OPTION

SCALE: NTS



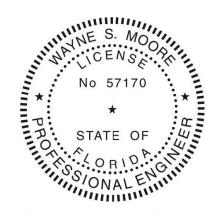
TYPICAL SIDE ELEVATION VERTICAL ROOF OPTION

SCALE: NTS



ROOF PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS



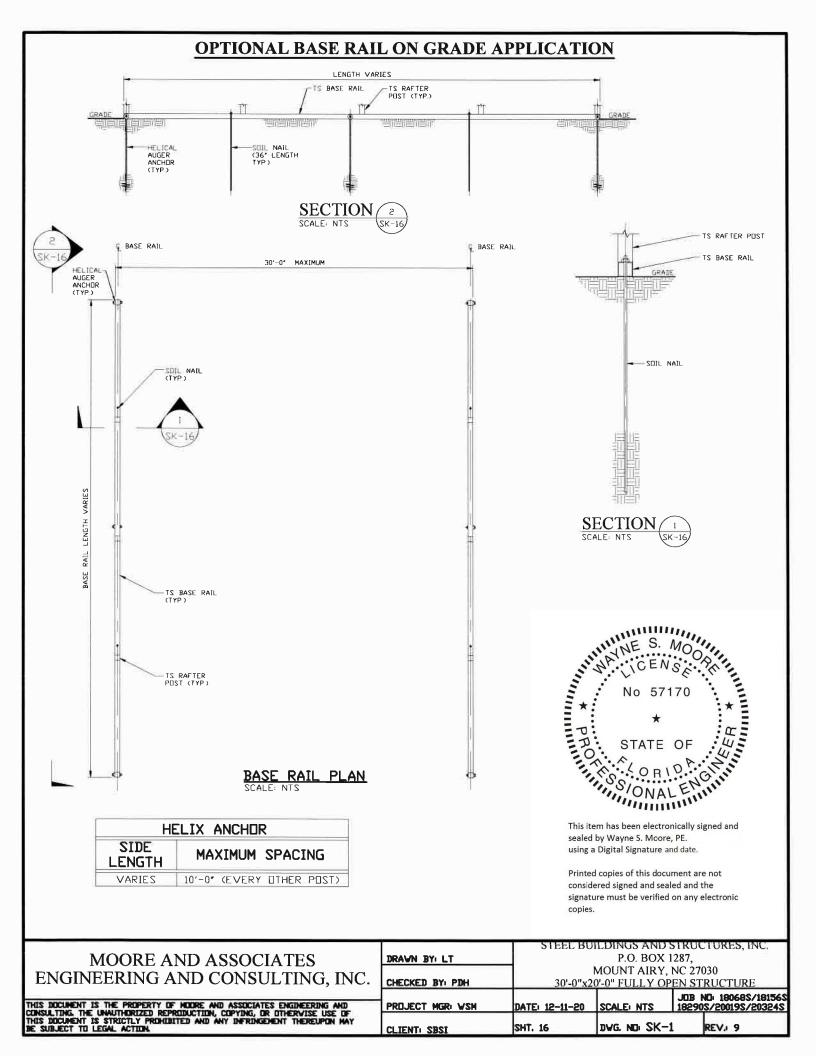
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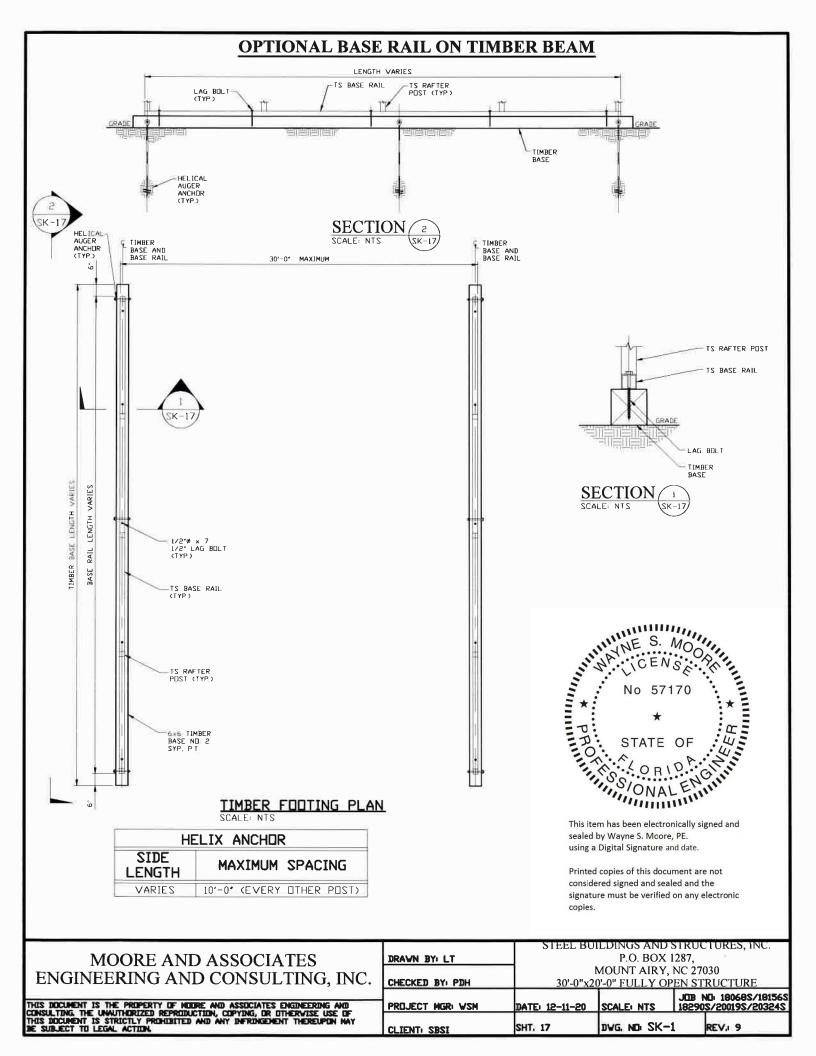
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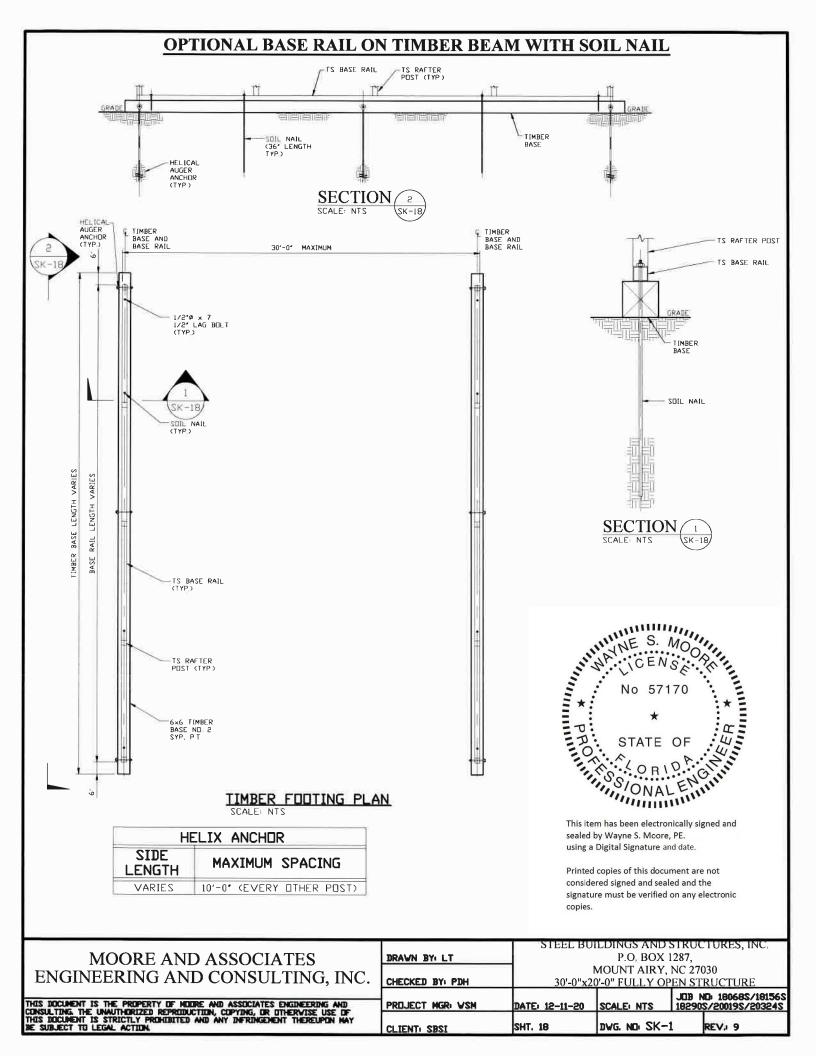
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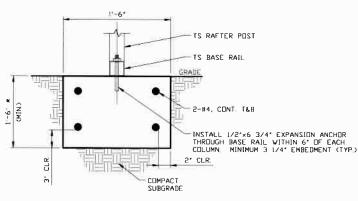
	STEEL BUILDINGS AND STRUCTURES, INC.			
DRAWN BY: LT	P.O. BOX 1287,			
	MOUNT AIRY, NC 27030			
CHECKED BY: PDH	30'-0"x20'-0" FULLY OPEN STRUCTURE			
PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS		VD: 18068S/18156S S/20019S/20324S
CLIENT: SBSI	SHT. 15	DVG. NO: SK-1		REV.: 9







OPTIONAL CONCRETE STRIP FOOTING FOOTING AND BASE RAIL FOOTING AND BASE RAIL 30'-0' MAXIMUM LENGTH VARIES FOOTING LENGTH VARIES 1/2'Ø EXPANSION ANCHOR (TYP.) RAIL BASE TS BASE RAIL TS RAFTER POST (TYP) CONCRETE STRIP FOOTING (3000 PSI MIN) CONCRETE STRIP FOOTING PLAN SCALE: NTS 1'-6" TS RAFTER POST



SECTION (SK-19)
*COURDINATE WITH LOCAL CODES/ORD.

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BE SUBJECT TO	TO STRUCTLY MUMINI	EN WAN WAT THE KTHOSEMEN	IT THEREUPUN MAY

	J SILLE BO	ILDINOS AND	SIKO	o i dices, inc.	
DRAWN BY: LT	P.O. BOX 1287,				
	MOUNT AIRY, NC 27030 30'-0"x20'-0" FULLY OPEN STRUCTURE				
CHECKED BY: PDH					
PROJECT MGRI WSM	DATE: 12-11-20	SCALE: NTS		ND: 180685/181565 05/200195/203245	
CLIENT: SBSI	SHT. 19	DVG. NO SK-	-1	REV. 9	