

# STRUCTURAL DESIGN ENCLOSED 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

Wayne Digitally signed by Wayne S Moore Date: 2022.09.06 10:12:19 -04'00'





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WITH SOIL NAIL

OPTIONAL CONCRETE STRIP FOOTING

SHEET 21



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#### INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED 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 = 15 PSF B) LIVE LOAD = 12 PSF

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

NOTE: (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 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 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.

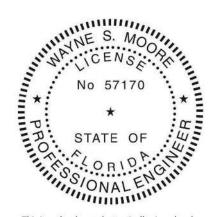
  OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
- 14 WIND FORCES GOVERN OVER SEISMIC FORCES, SEISMIC PARAMETERS ANALYZED ARE:

SDIL SITE CLASS = D RISK CATEGORY I

R = 3.25  $I_E = 1.0$   $V = C_2 W$ 

 $S_{B1} = 1.258 g$ 

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

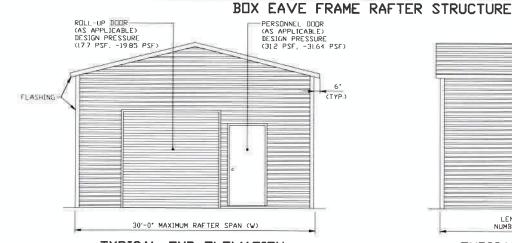


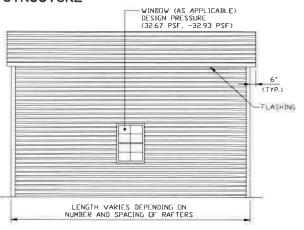
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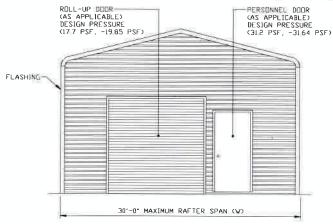
#### TYPICAL END ELEVATION

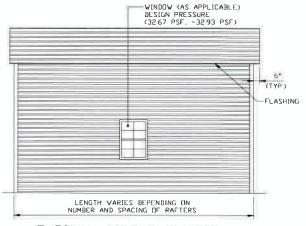
SCALE: NTS

#### TYPICAL SIDE ELEVATION

SCALE: NTS

#### BOW EAVE FRAME RAFTER STRUCTURE





#### TYPICAL END ELEVATION

SCALE: NTS

#### TYPICAL SIDE ELEVATION

SCALE: NTS



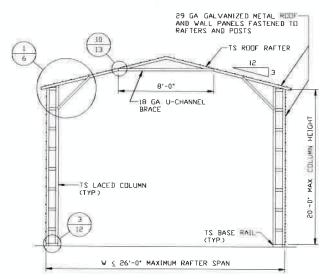
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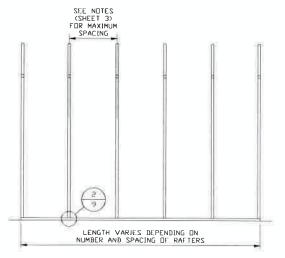
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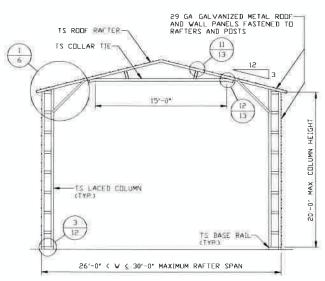
#### TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



#### TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS



### TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

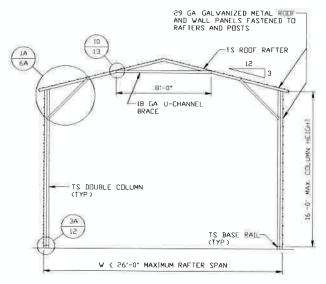


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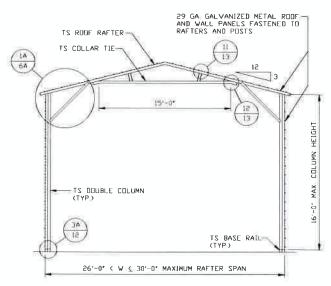
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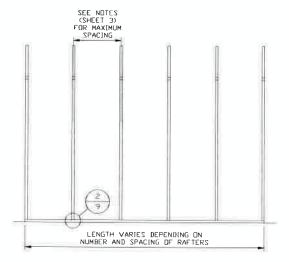
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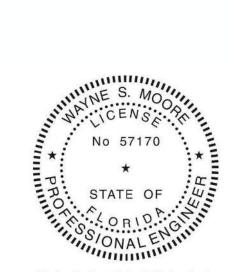
TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

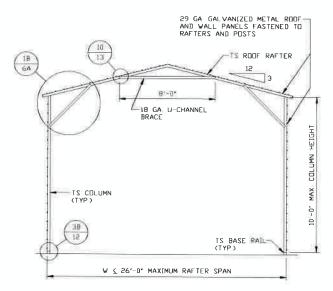


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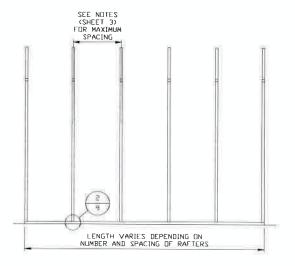
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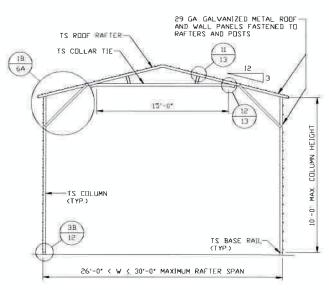
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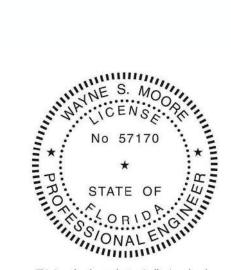
### TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



#### TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



#### TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

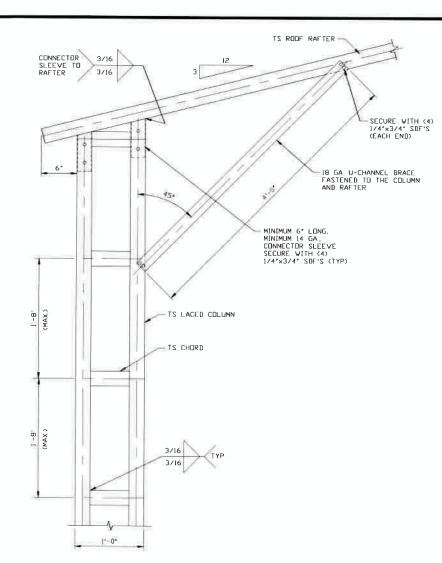


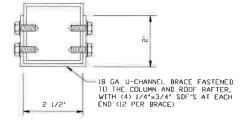
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### BRACE SECTION SCALE: NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO < 20'-0" 1



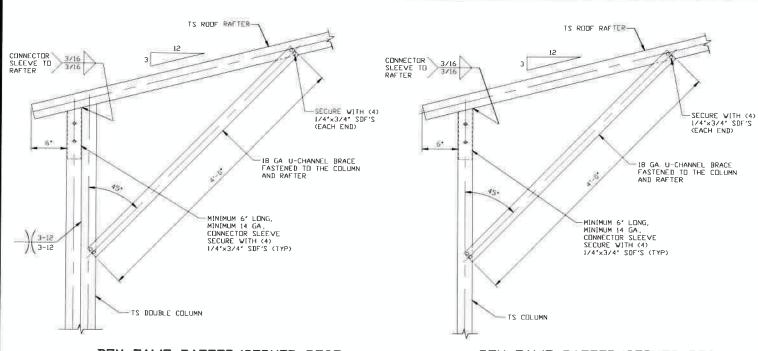
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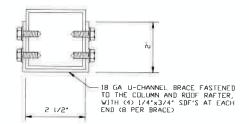
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS 10'-0' < TO \( \) 16'-0'

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

1B | FOR HEIGHTS & 10'-0' |

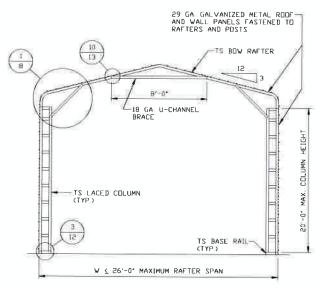
SCALE: NTS



BRACE SECTION
SCALE: NTS

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### TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

29 GA GALVANIZED METAL ROOF
AND WALL PARELS FASTENED TO
RAFTERS AND POSTS

TS COLLAR TIE

13

12

15'-0'

15 LACED COLUMN

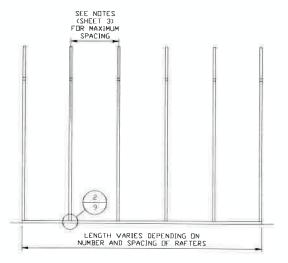
TS LACED COLUMN

TS BASE RAIL

(TYP)

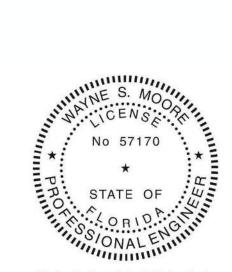
26'-0' ( V ( 30'-0' MAIXAM NUMIXAM 20'-06')

TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



#### TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS



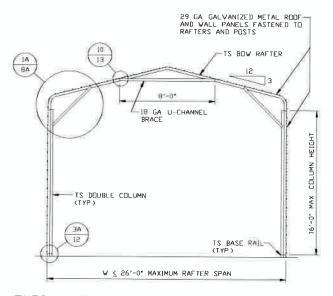
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	CLIENT: SBSI	SHT. 7	DWG. NO SK-	3	REV. 9	



#### TYPICAL RAFTER/COLUMN FRAME SECTION

29 GA GALVANIZED METAL ROOF
AND WALL PANELS FASTENED TO
RAFTERS AND POSTS

TS COLLAR TIE

13

15'-0'

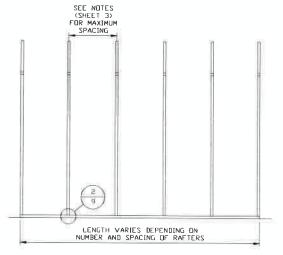
15'-0'

15 BASE RAIL

(TYP)

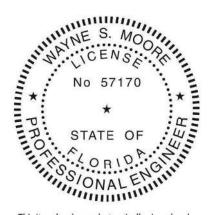
26'-0' ( V \( \) 30'-0' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



#### TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE NTS



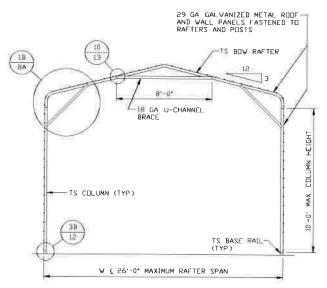
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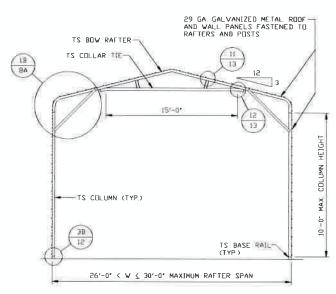
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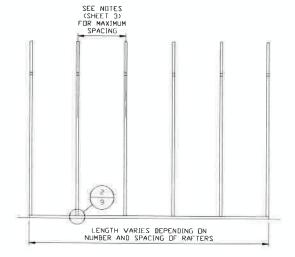
_				William Co.			
		STEEL BU	ILDINGS AND	STRUC	TURES, INC.		
	DRAWN BY: LT		P.O. BOX 1287,				
			MOUNT AIRY, NC 27030				
	CHECKED BY: PDH	30'-0"x2	30'-0"x20'-0" ENCLOSED STRUCTURE				
	PROJECT MGRI WSM	DATE: 12-11-20	SCALE: NTS	JOB 1	ND: 180685/181565 S/20019S/20324S		
	CLIENT: SBSI	SHT. 7A	DWG. NO: SK-	.3	REV. 9		



### TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION



#### TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

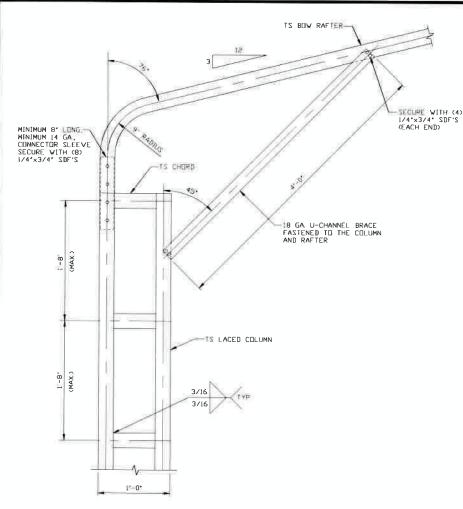


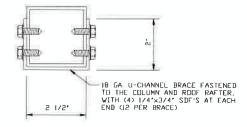
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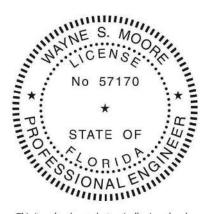
		STEEL BUIL	STEEL BUILDINGS AND STRUCTURES, INC.				
Į	DRAWN BY: LT		P.O. BOX 1287,				
	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE					
+	PREJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS	JOB N 18290	18068\$/18156\$ \$/20019\$/20324\$		
	CLIENT: SBSI	SHT. 7B	DVG. NO: SK-3	3	REV. 9		





### BRACE SECTION SCALE: NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO ≤ 20'-0" 1 SCALE: NTS



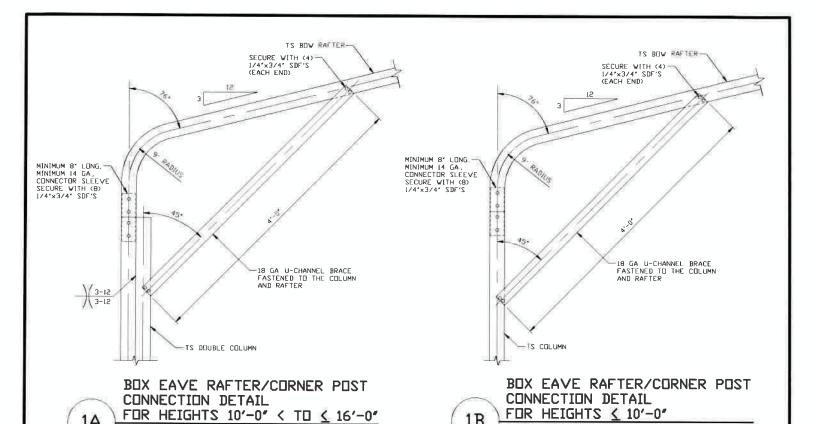
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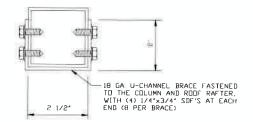
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CLIENTI SBSI	SHT. 8	DWG. NO SK-	3	REV. 9	
PREJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS		ID: 18068\$/181 <b>5</b> 6\$ \$/20019\$/20324\$	
CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE				
DRAWN BY: LT	P.O. BOX 1287,				
	STEEL BUI	LDINGS AND S	TRUC	TURES INC	



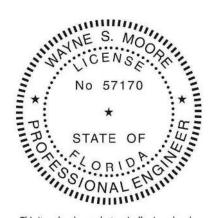
1B

SCALE NTS



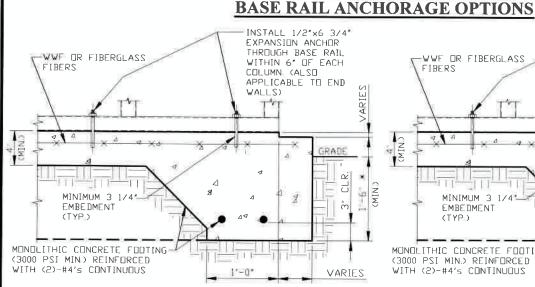
BRACE SECTION
SCALE: NTS

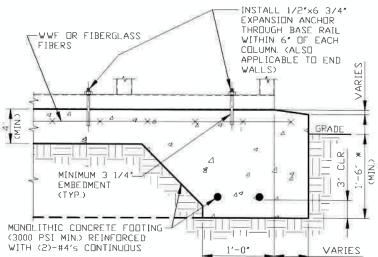
SCALE NIS



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		19-20-2131-222-22	rational area (190 - 190 del 190 del	
		STEEL BUI	LDINGS AND S	TRUCTURES, INC.
MOORE AND ASSOCIATES	DRAWN BY: LT		P.O. BOX 1	287,
ENGINEEDING AND CONCLUTING INC		l N	MOUNT AIRY, 1	NC 27030
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"x2	0'-0" ENCLOSE	D STRUCTURE
				JUB NO 18068S/18156S
This document is the property of modre and associates engineering and consulting. The unauthorized reproduction, copying, or otherwise use of	PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS	18290\$/20019\$/20324\$
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#### CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

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

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 WELDED 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 REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT

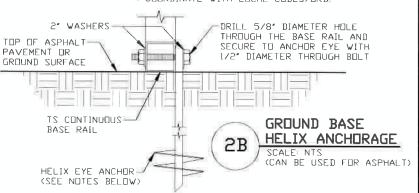
#### HELIX ANCHOR NOTES:

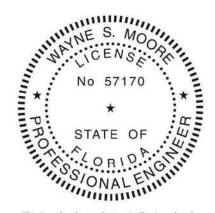
- 1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT
- 2 FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT,
- 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
- 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) 8° HELICES WITH MINIMUM 60° EMBEDMENT

#### CONCRETE SLAB BASE RAIL ANCHORAGE

2A

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





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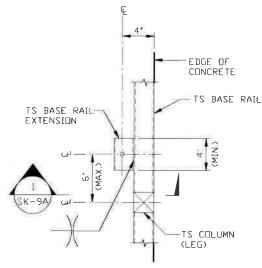
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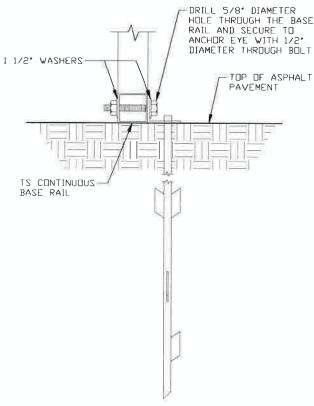
111000	CLIENTI SESI	DATE: 12-11-20 SHT. 9	DWG, ND SK-		S/20019S/20324S REV.: 9
_	PROJECT MGR: VSM	JUB ND: 180685/18			D 18068\$/18156\$
	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE			
	DRAWN BYI LT	STEEL BUI	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287,		

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

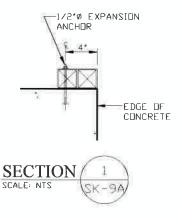


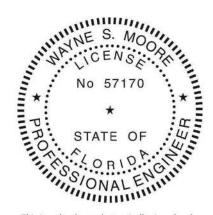
### TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS









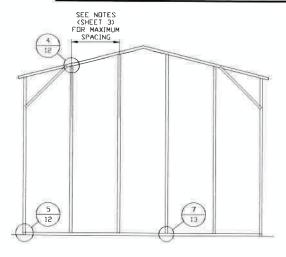
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ENGINEERING AND CONSULTING, INC.

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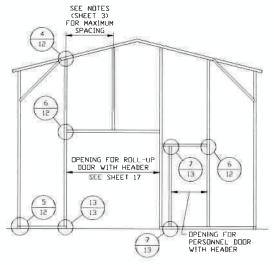
		3 TEEL DOI	EDINOS AND S		rokes, inc	
d	DRAWN BY: LT	P.O. BOX 1287,				
		MOUNT AIRY, NC 27030				
	CHECKED BY: PDH	30'-0"x20'-0" ENCLOSED STRUCTURE				
				JOB N	D 18068S/18156S	
٦	PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS		2/200195/203245	
	CLIENT: SBSI	SHT. 9A	DWG. NO: SK-	3	REV.: 9	

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



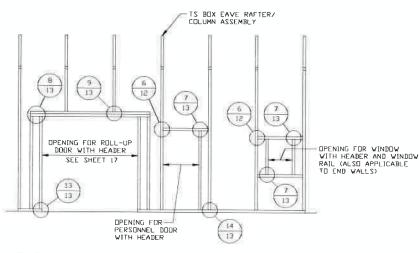
### TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



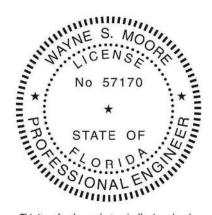
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SCALE: NTS



TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



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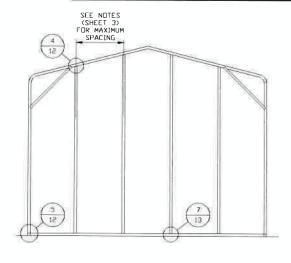
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PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS	JOB NO 180685/181565 182905/200195/203245		
CHECKED BY: PDH		MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE			
DRAVN BY: LT	STEEL BUI	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287,			

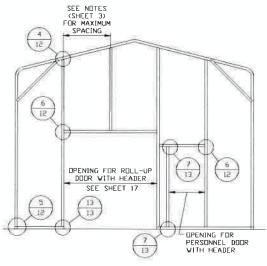
CLIENT: SBSI SHT. 10 DWG. ND: SK-3 REV., 9

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



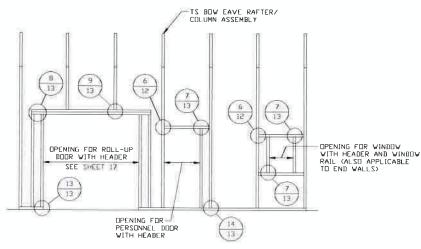
### TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



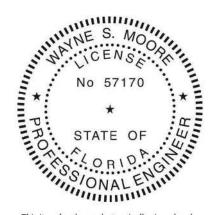
### TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



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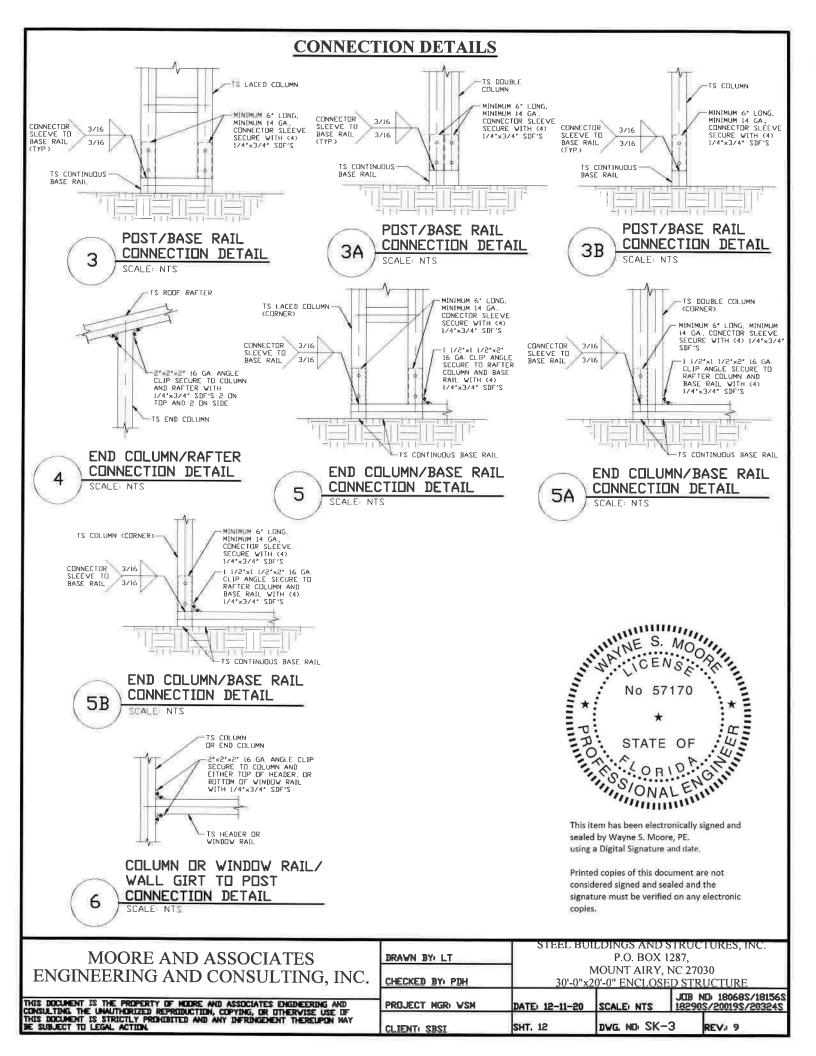
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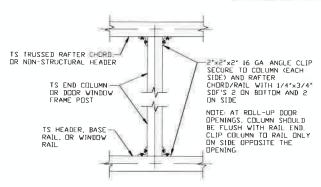
	STEEL BUILDINGS AND STRUCTURES, INC.
DRAWN BY: LT	P.O. BOX 1287,
	MOUNT AIRY, NC 27030
CHECKED BY: PDH	30'-0"x20'-0" ENCLOSED STRUCTURE

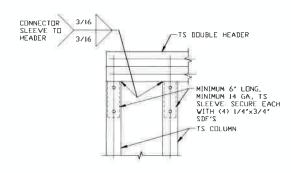
PROJECT MGR: WSM DATE: 12-11-20 SCALE: NTS 18290S/20019S/20324S

CLIENT: SBSI SHT. 11 DWG. ND: SK-3 REV.: 9



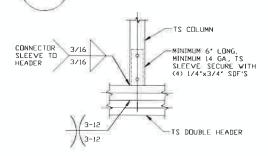
#### **CONNECTION DETAILS**

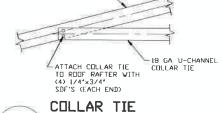




#### COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

DOUBLE HEADER/COLUMN CONNECTION DETAIL 8





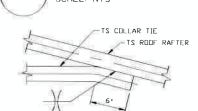


TS ROOF RAFTER

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

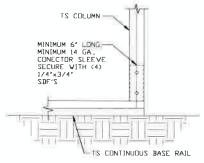
CONNECTION DETAIL 10 SCALE: NTS

TS ROOF RAFTER



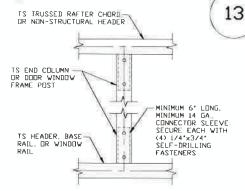
9





COLLAR TIE CONNECTION DETAIL 12 SEALE: NTS

COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS





COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL SCALE NTS

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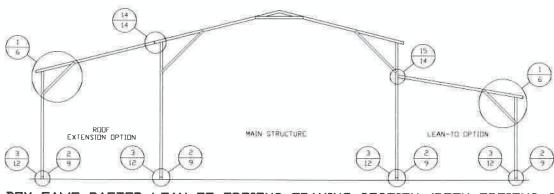
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CLIENT, CRCI	SHT. 13	DVG NE SK-	-3	PFV. 9
PROJECT MGR: VSM	DATE: 12-11-20	SCALE: NTS	1829	ND: 18068S/18156S 90S/20019S/20324S
CHECKED BY: PDH	30'-0"x	20'-0" ENCLOS <b>T</b>		The state of the s
		MOUNT AIRY,	NC 27	7030
DRAWN BY: LT		P.O. BOX	1287,	
	STEEL BU	ILDINGS AND	STRU	CTURES, INC.

#### **BOX EAVE RAFTER LEAN-TO OPTIONS**



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

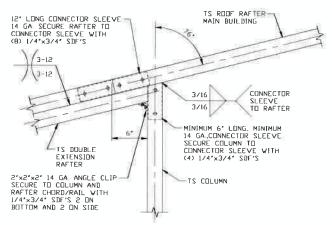
SCALE: NTS

MAXIMUM WIDTH OF SINGLE TS ROOF EXTENSION LEAN-TO IS 12'-0'.

MAXIMUM WIDTH OF DOUBLE TS ROOF EXTENSION LEAN-TO IS 16'-0'.

MAXIMUM SINGLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 8'-0'.

FOR COLUMN CONFIGURATIONS REFERENCE RAFTER COLUMN CONNECTION DETAILS.



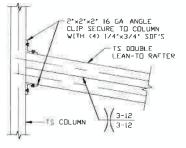
TS ROOF RAFTER MAIN BUILDING 12" LONG CONNECTOR SLEEVE 14 GA SECURE RAFTER TO CONNECTOR SLEEVE WITH (B) 1/4"x3/4" SDF'S CONNECTOR 3/16 SLEEVE TO RAFTER MINIMUM 6" LONG, MINIMUM 14 GA.CONNECTOR SLEEVE SECURE COLUMN TO CONNECTOR SLEEVE WITH (4) 1/4"x3/4"SDF"S TS EXTENSION NIPPLE TO RAFTER (TYP) 3/16 3/16 TS COLUMN

14A

SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS < 12'-0" SCALE: NTS

SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS 12'-0" < T□ < 16'-0"

SCALE: NTS



2'x2"x2" 16 GA ANGLE CLIP SECURE TO COLUMN WITH (4) 1/4"x3/4" SDF'S TS LEAN-TO RAFTER TS COLUMN

LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS < 12'-0" SCALE: NTS

SCALE: NTS

FOR WIDTHS 12'-0" < T□ < 16'-0"

CONNECTION DETAIL

LEAN-TO RAFTER

TO RAFTER POST

15A

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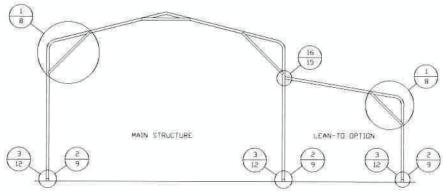
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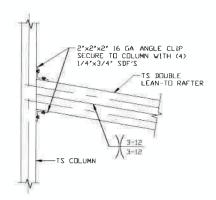
STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, DRAWN BYI LT MOUNT AIRY, NC 27030 CHECKED BY: PDH 30'-0"x20'-0" ENCLOSED STRUCTURE JUB NO: 180685/18156S PROJECT MGR: VSM DATE: 12-11-20 SCALE: NTS 182905/200195/203245 DWG. NO SK-3 SHT. 14 CLIENT: SBSI REV. 9

#### **BOW EAVE RAFTER LEAN-TO OPTIONS**



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

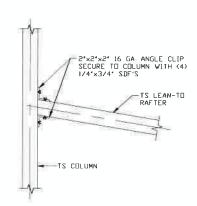
SCALE: NTS
MAXIMUM WIDTH OF SINGLE TS ROOF EXTENSION LEAN-TO IS 12'-0'
MAXIMUM WIDTH OF DOUBLE TS ROOF EXTENSION LEAN-TO IS 16'-0'.
MAXIMUM SINGLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 8'-0'
FOR COLUMN CONFIGURATIONS REFERENCE RAFTER COLUMN CONNECTION DETAILS.



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS

12'-0" < T□ < 16'-0" SCALE: NTS

16



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS ≤ 12'-0"

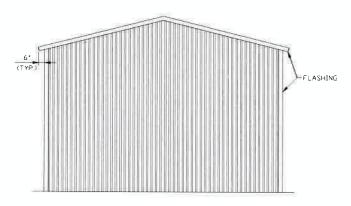
16A SCALE NTS

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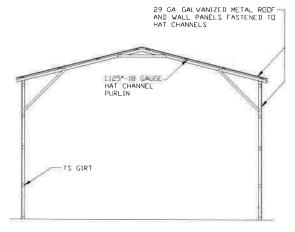
		STEEL BUI	LDINGS AND S	TRUC	TURES, INC.
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ENGINEERING AND CONSULTING, INC.			MOUNT AIRY, I		
ENGINEERING TIME COMBOLITING, INC.	CHECKED BY: PDH	30'-0"x2	<u>0'-0" ENCLOSE</u>	<u>D STR</u>	UCTURE
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#### **BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION**



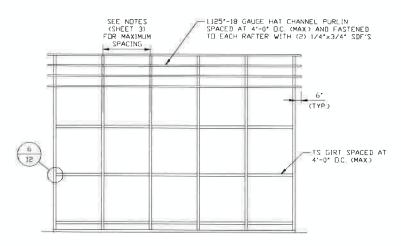
### TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE NTS



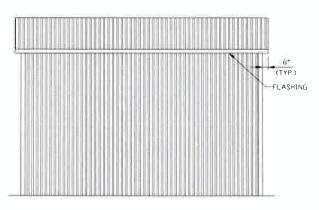
### TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



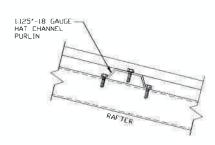
### TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



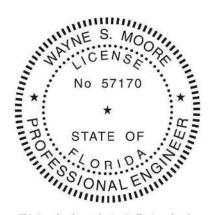
### TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



#### PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS) SCALE NTS



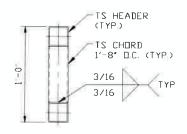
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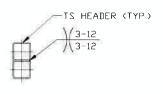
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#### **SIDE WALL HEADER OPTIONS**





LACED HEADER DETAIL FOR DOOR OPENINGS 12'-0' < LENGTH < 20'-0' SCALE: NTS

DOUBLE HEADER DETAIL FOR DOOR OPENINGS 7'-0' < LENGTH \( \) 12'-0'



SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH < 7'-0'

SCALE: NTS

#### END WALL HEADER OPTIONS

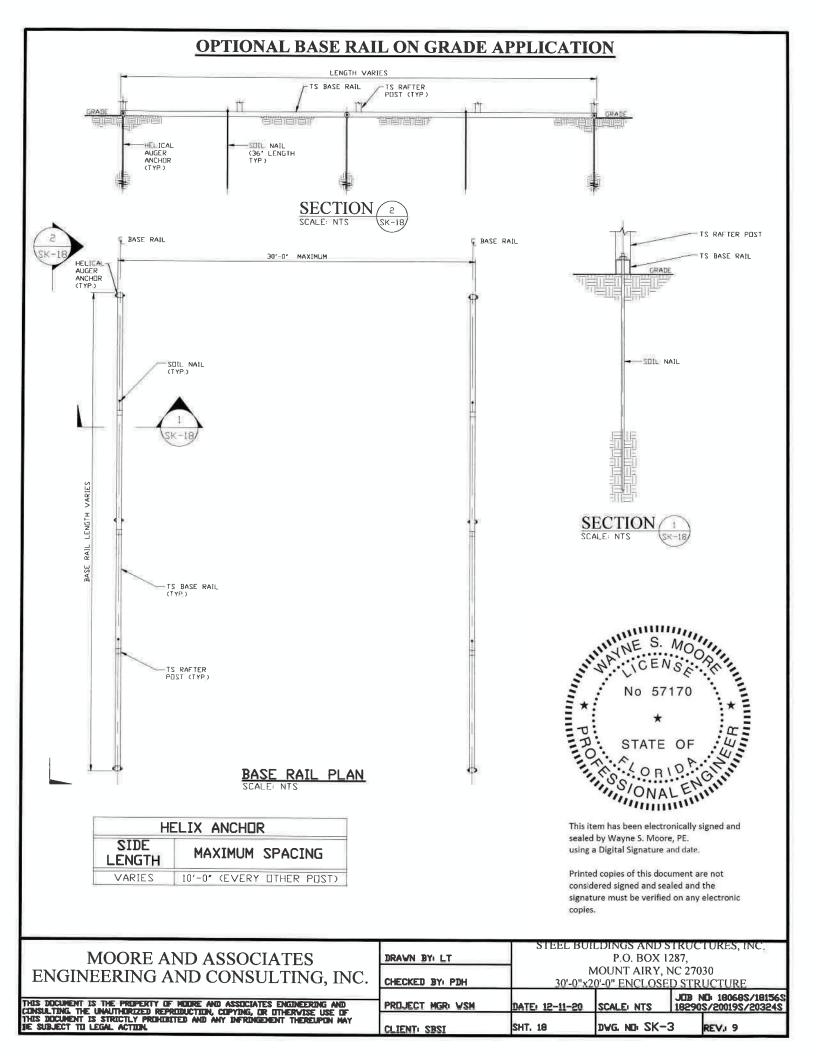


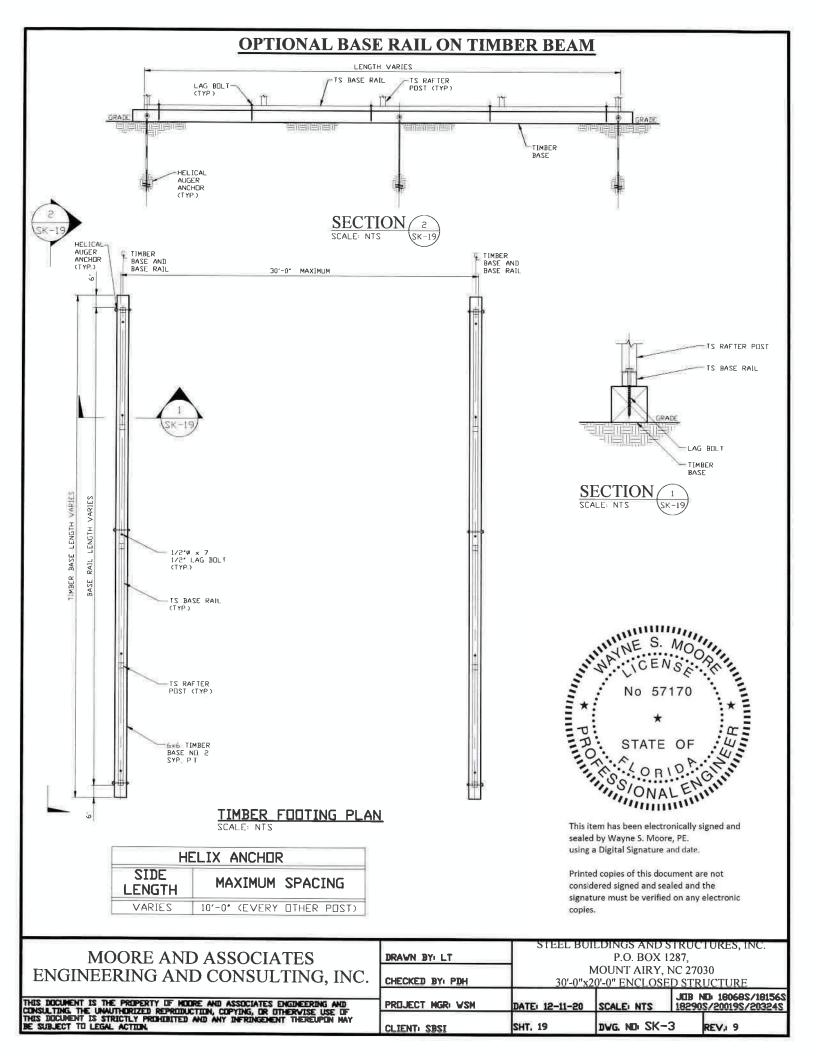
SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH & 12'-0'

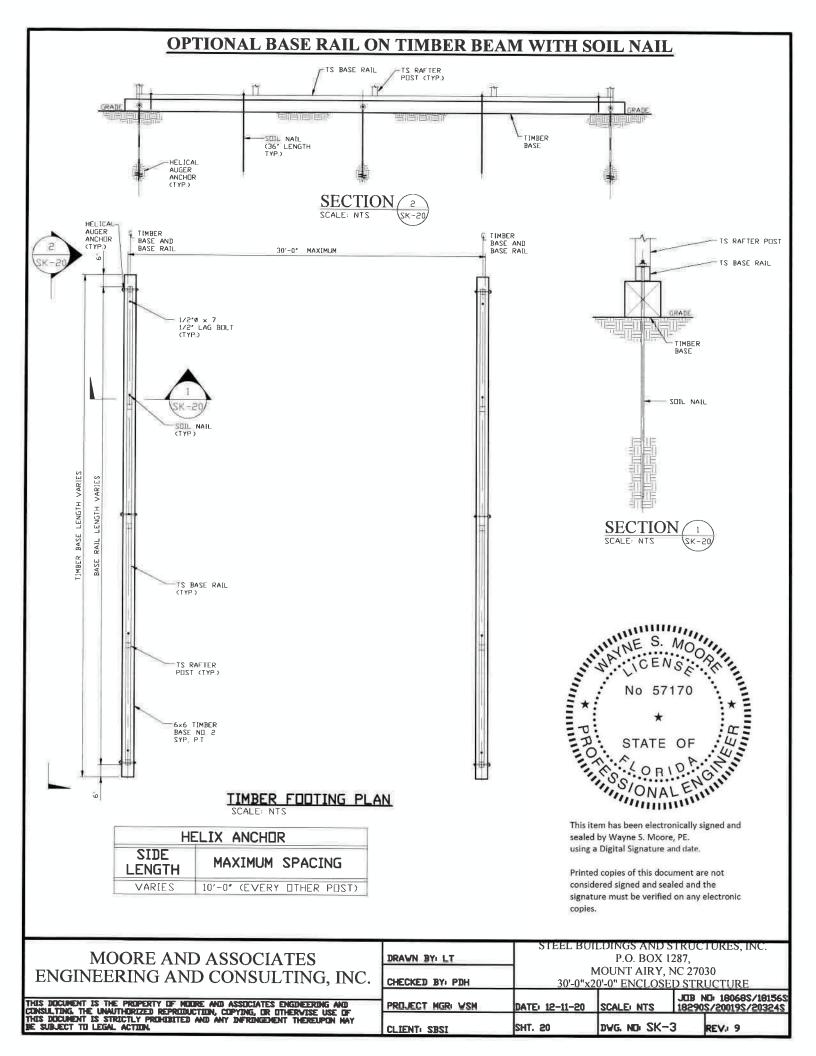


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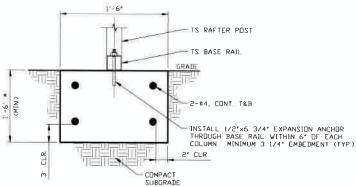
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	CHECKED BY: PDH		MOUNT AIRY, NC 27030 x20'-0" ENCLOSED STRUCTURE				
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# OPTIONAL CONCRETE STRIP FOOTING FOOTING AND BASE RAIL FOOTING AND BASE RAIL 30'-0" MAXIMUM VARIES FOOTING LENGTH VARIES RAIL LENGTH 1/2° EXPANSION ANCHOR (TYP) BASE TS BASE RAIL CENCRETE STRIP FOOTING (3000 PSI MIN.) CONCRETE STRIP FOOTING PLAN



SECTION ( SCALE: NTS

\* COORDINATE WITH LOCAL CODES/ORD



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