

Steel Buildings and Structures Inc.

PO Box 1287 Mt. Airy, NC 27030 877-272-8276 Ext: 122 fgarcia@sbsihq.com

Enclosed are the certified plans for the building that you have purchased. Please let our office know if you plan on pulling a permit for the building to be installed. If you decide not to pull a permit you are taking full and complete responsibility of any fines that can be enforced by the city, county, or town within which you live for not obtaining any necessary permits. Please let me know if you have any questions, or if you need any help during the permitting process. Also, please be aware that some pages in the packet may not pertain to your building, as these are generic drawings and not site specific. Please do not remove any pages from this packet as some counties will consider them as being tampered with and may not accept them. If you have any questions please contact me. Thank you for choosing Steel Buildings and Structures Inc. Have a great day!

Sincerely, Frances Garcia



STRUCTURAL DESIGN ENCLOSED BUILDING

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

14 December 2018 Revision 7 M&A Project No. 16062S/16155S/16207S/17155S/17200S/18068S/18156S/18290S

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 Mount Airy, NC 27030







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DRAWING INDEX

SHEET 1 SHEET 1A	PE SEAL COVER SHEET (1 OF 2)
SHEET 2	PE SEAL COVER SHEET (2 OF 2) DRAWING INDEX
SHEET 3	INSTALLATION NOTES AND SPECIFICATIONS
SHEET 3A	TYPICAL SIDE AND END ELEVATIONS
SHEET 3B	TYPICAL SIDE AND END ELEVATIONS
SHEET 4	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE STRUCTURE)
SHEET 4A	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE STRUCTURE)
SHEET 4B	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE STRUCTURE)
SHEET 4C	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOW EAVE STRUCTURE)
SHEET 4D	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOW EAVE STRUCTURE)
SHEET 4E	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOW EAVE STRUCTURE)
SHEET 5	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)
SHEET 5A	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)
SHEET 6	COLUMN CONNECTION DETAILS (BOW EAVE STRUCTURE)
SHEET 6A	COLUMN CONNECTION DETAILS (BOW EAVE STRUCTURE)
SHEET 7	BASE RAIL ANCHORAGE OPTIONS
SHEET 8A	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS
SHEET 9	CONNECTION DETAILS
SHEET 10	CONNECTION DETAILS
SHEET 11	LEAN-TO OPTIONS
SHEET 11A	LEAN-TO OPTIONS
SHEET 12	VERTICAL ROOF/SIDING OPTION END AND SIDE ELEVATION AND SECTION
SHEET 13	OPTIONAL HEADER
SHEET 14	ADDITIONAL BASE RAIL ANCHORAGE OPTION
SHEET 15	OPTIONAL BASE RAIL ON GRADE APPLICATION
SHEET 16	OPTIONAL BASE RAIL ON TIMBER BEAM
SHEET 17	OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL
SHEET 18	OPTIONAL CONCRETE STRIP FOOTING



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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 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2018 NORTH CAROLINA BUILDING CODE, 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC, 2012 IBC AND 2015 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD

= 1.5 PSF

B) LIVE LOAD

= 12 PSF

- C) GROUND SNOW LOAD = 30 PSF (< 26'-0'), 35 PSF (26'-0' < W ≤ 30'-0')
 - (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED.)
- 4. 3-SECOND GUST ULTIMATE WIND SPEED (VULT) 105 TO 145 MPH (NOMINAL WIND SPEED 82 TO 112 MPH): MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
- 5. END WALL COLUMNS (POST) ARE EQUIVALENT TO SIDE WALL POSTS UNLESS NOTED OTHERWISE.
- 6. RISK CATEGORY I.
- 7. WIND EXPOSURE CATEGORY B.
- 8. 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).
- 9. AVERAGE FASTENER SPACING DN-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8 INCHES.
- 10. FASTENERS CONSIST OF 1/4*x3/4* SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS.

 SPECIFICATIONS APPLICABLE DNLY 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.
- 11. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN.
- 12. GROUND ANCHORS CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG IN SUITABLE SOIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
- 13. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE

SDIL SITE CLASS = D RISK CATEGORY I/II/III

R= 3.25

I_E= 1.0 V= CsW

Sps= 2.039

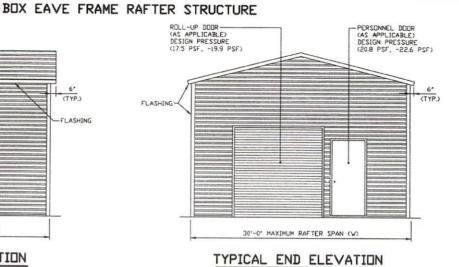
S_{DI}= 1.258

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



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VINDOV (AS APPLICABLE) DESIGN PRESSURE (21.8 PSF, -23.6 PSF) LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS



TYPICAL SIDE ELEVATION
SCALE: NTS

SCALE: NTS



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VINDOW (AS APPLICABLE) DESIGN PRESSURE (21.8 PSF. -23.6 PSF.) FLASHING LENGTH VARIES DEPENDING DN NUMBER AND SPACING OF RAFTERS ROLL-UP DOOR (AS APPLICABLE) DESIGN PRESSURE (17.7.9 PSF.) FLASHING ROLL-UP DOOR (AS APPLICABLE) DESIGN PRESSURE (17.7.9 PSF.) FLASHING FLASHING SO'-O' MAXIMUM RAFTER SPAN (V)

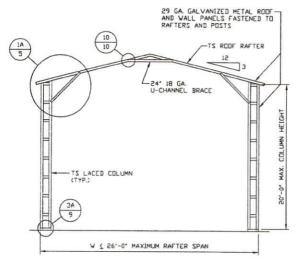
TYPICAL SIDE ELEVATION

SCALE: NTS

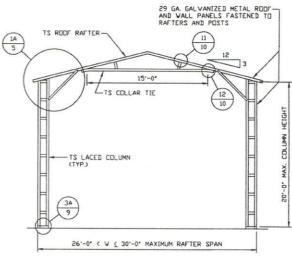
TYPICAL END ELEVATION SCALE: NTS



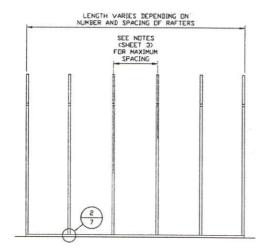
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TYPICAL RAFTER/COLUMN FRAME SECTION



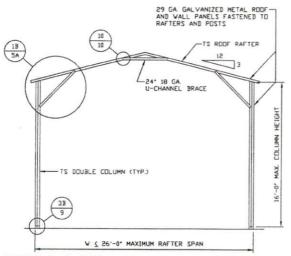
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

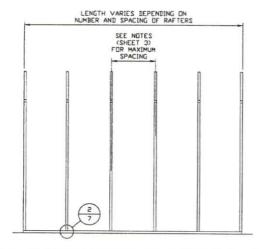
29 GA GALVANIZED METAL ROOF
AND VALL PANELS FASTENED TO
RAFTERS AND POSTS

15 ROOF RAFTER

10
12
15 -0'
TS COLLAR TIE
11
10
12
13
15 -0'
TS DOUBLE COLUMN (TYP.)

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

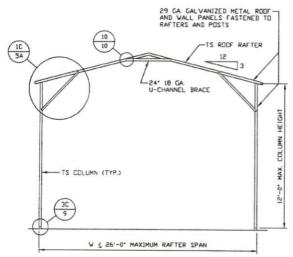
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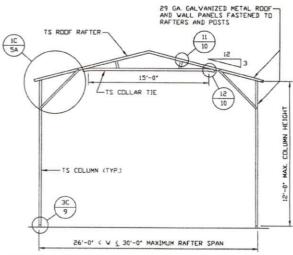
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



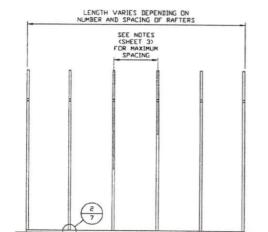
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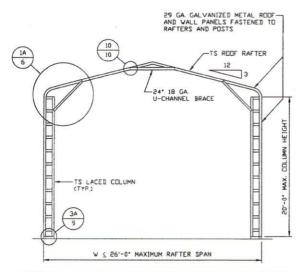
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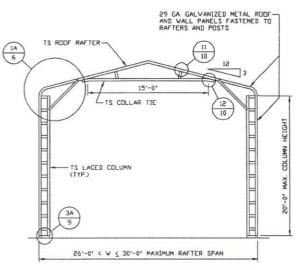
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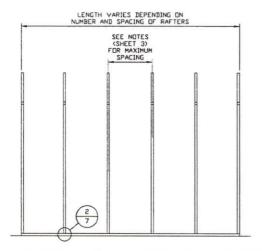
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TYPICAL RAFTER/COLUMN FRAME SECTION



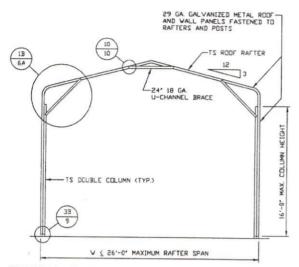
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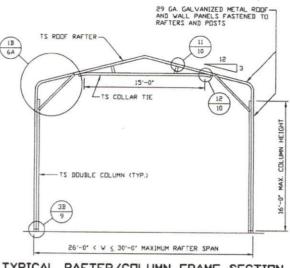
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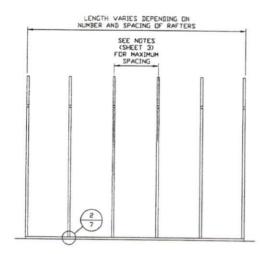
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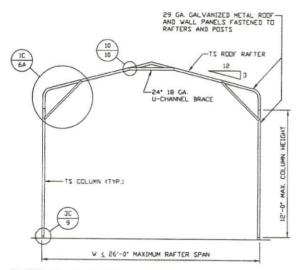
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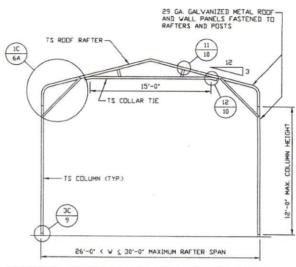
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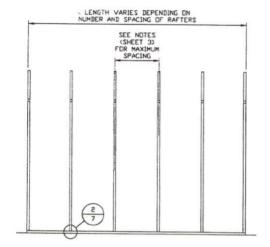
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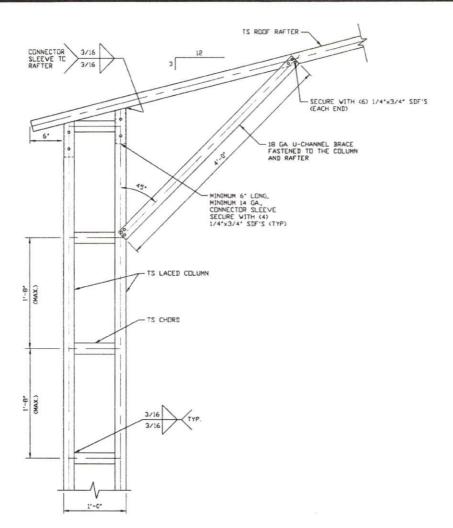
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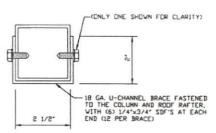
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



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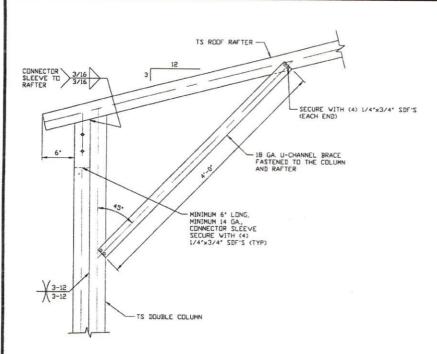
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL
FOR HEIGHTS 16'-0' < TO \(\) 20'-0'

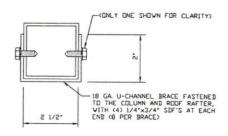


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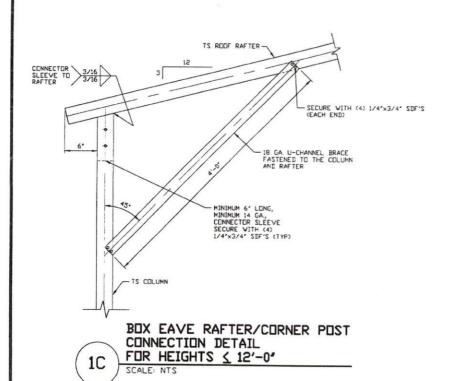
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BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0' < TO < 16'-0'

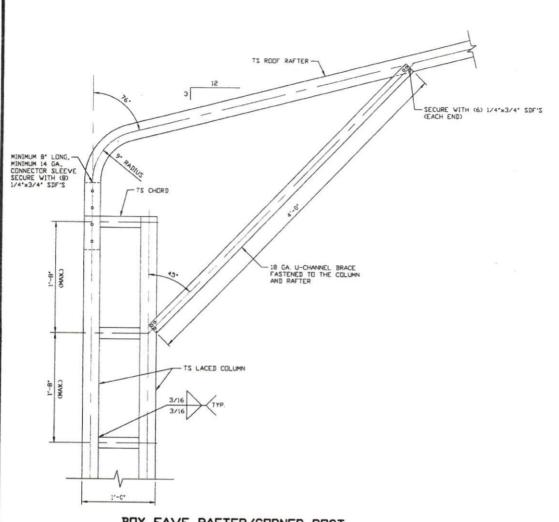




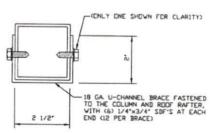
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BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO \(\) 20'-0"



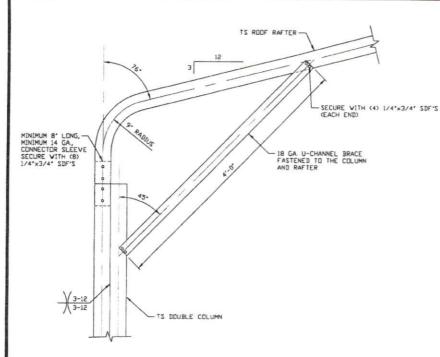
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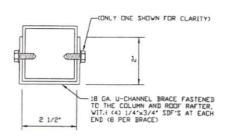


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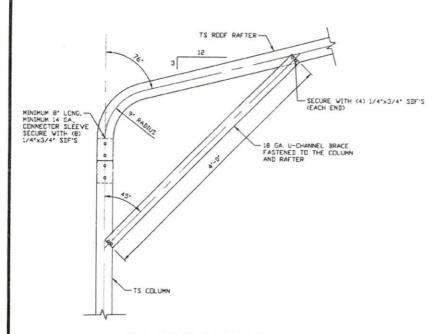


BRACE SECTION SCALE: NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL
FOR HEIGHTS 12'-0" < TO \(\) 16'-0"

1B

1C



SEAL 26784
VAN 3 0 2014

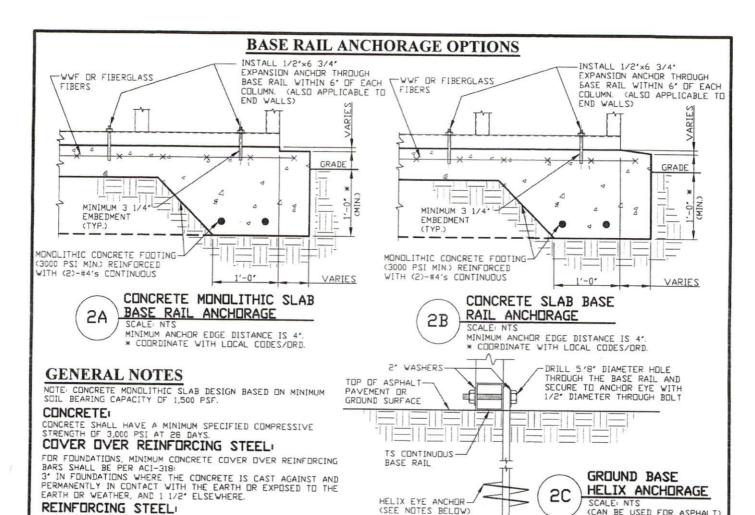
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BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS & 12'-0'

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ENGINEERING AND CONSULTING, IN	C.

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DRAWN BY: AT CHECKED BY: PDH	P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE					
PROJECT MGR VSM	DATE: 12-14-18	SCALE: NTS	JOB	180685/ ND 181565/182905		
CLIENT: SBSI	SHT. 6A	DVG. ND SK-	-3	REV. 7		



REINFORCING STEEL

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM AGIS 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.

3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

HELIX ANCHOR NOTES:

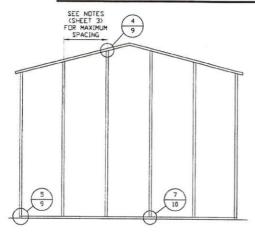
- FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- 2. FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 3C' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 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' EMBEDMENT.
- 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.



(CAN BE USED FOR ASPHALT)

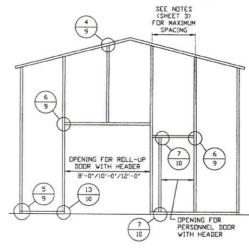
MOORE AND ASSOCIATES	DRAWN BY: AT	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, MOUNT AIRY, NC 27030				
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	TANKER 000 980	0'-0" ENCLOSE			
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



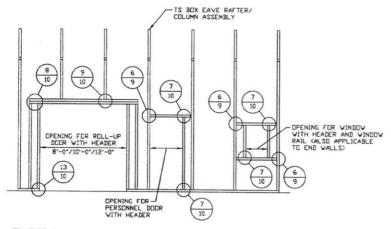
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



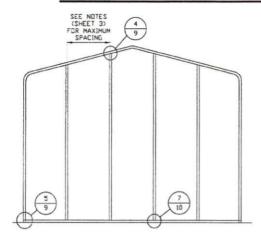
TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



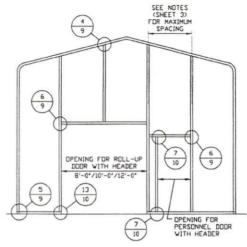
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: AT CHECKED BY: PDH	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE			0
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



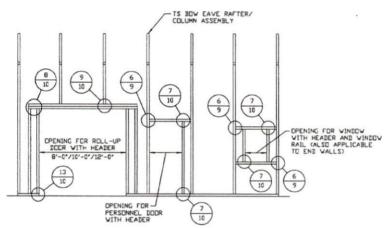
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

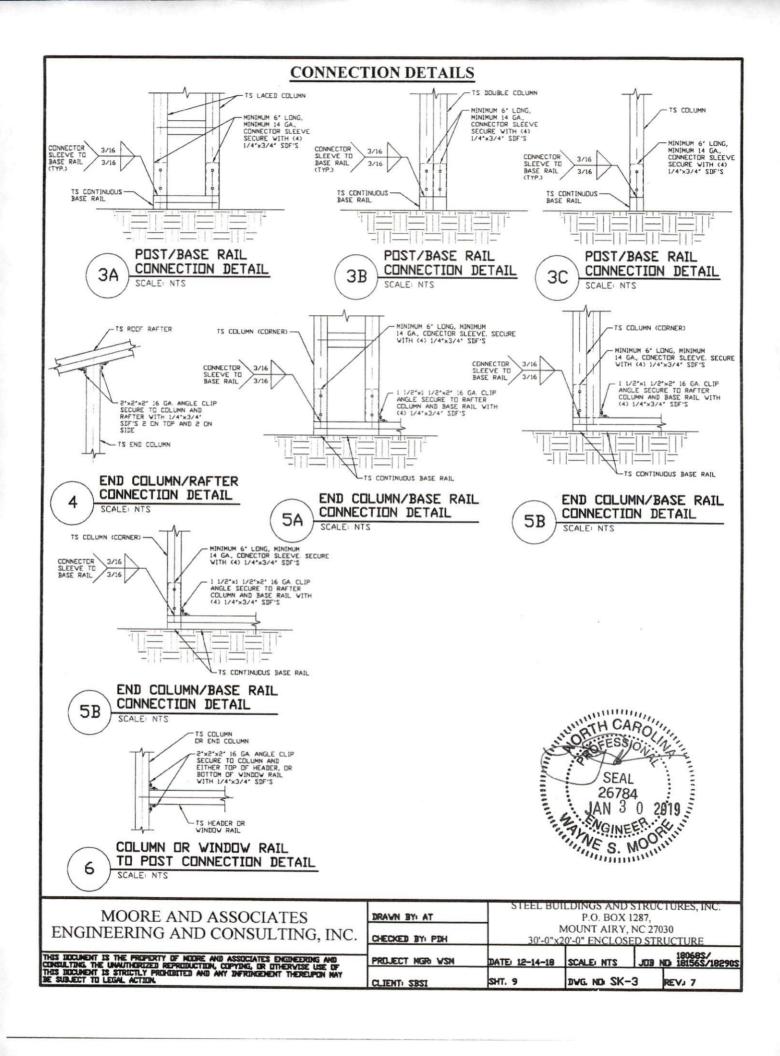


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

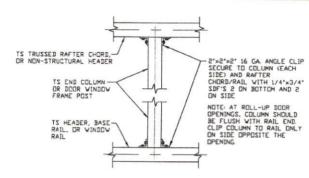
SCALE: NTS



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ENGINEEDING AND CONSULTING INC	CHECKED BY: PDH		MOUNT AIRY, 20'-0" ENCLOSE	NC 27030 ED STRUCTURE		
MOORE AND ASSOCIATES	DRAWN BY: AT	STEEL BUI	P.O. BOX 1287,			



CONNECTION DETAILS



CONNECTOR
SLEEVE TO
3/16

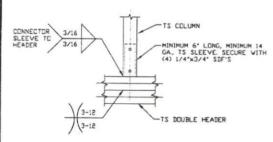
TS DOUBLE HEADER

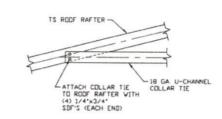
TS DOUBLE HEADER

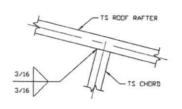
MINIMUM 6' LONG, MINIMUM
14 GA., TS SLEEVE. SECURE
EACH VITH (4) 1/4"×3/4" SDF'S

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

8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS





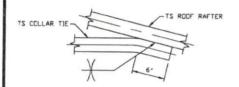


9 COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS

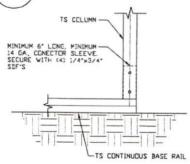
10 COLLAR TIE CONNECTION DETAIL

RAFTER TO CHORD CONNECTION DETAIL

SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL





COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS

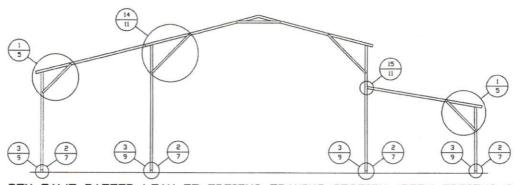
13

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC	

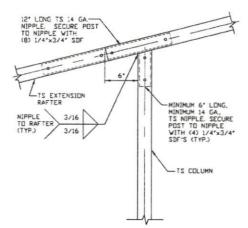
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CLIENT: SBSI	SHT. 10	DWG. ND SK-	-3	REV. 7
PROJECT MGR: WSM	DATE: 12-14-18	SCALE: NTS	JOB	18068S/ ND 18156S/18290S
CHECKED BY: PDH	A CONTRACTOR OF THE CONTRACTOR	MOUNT AIRY, 20'-0" ENCLOS		
DRAWN BY: AT	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287,			

BOX EAVE RAFTER LEAN-TO OPTIONS

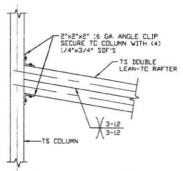


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)



SIDE EXTENSION RAFTER/
CORNER POST DETAIL

SCALE: NTS



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0" < TO <u>⟨</u> 16'-0"

15A

2'x2'x2' 16 GA. ANGLE CLIP
SECURE TO COLUMN VITH (4)
1/4'x3/4' SIF'S

TS LEAN-TO
RAFTER

TS COLUMN

LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS
SCALE: NTS

15B



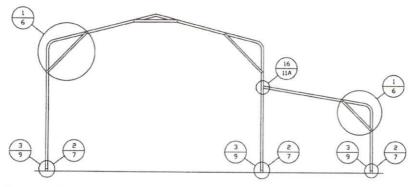
STEEL BUILDINGS AND STRUCTURES, INC.

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC	3.

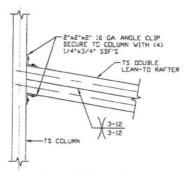
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	CHECKED BY: PDH		MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE				
_	PROJECT MGR: VSM	DATE: 12-14-18	SCALE: NTS	JOB	180685/ ND 181565/182905		
	CLIENT, SRSI	SHT. 11	DVG. ND SK-	-3	REV. 7		

BOW EAVE RAFTER LEAN-TO OPTIONS

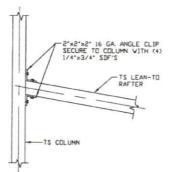


TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION SCALE: NTS



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0" < TO < 16'-0"

16A 12'-0' < TO \(\) 16'-0' | SCALE: NTS



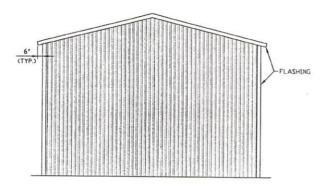
LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS ≤ 12'-0'





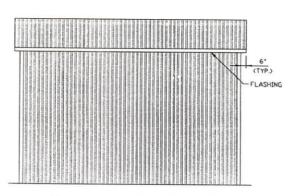
ENGINEERING AND CONSULTING INC	DRAVN BY: AT CHECKED BY: PDH	N	LDINGS AND S P.O. BOX 1 MOUNT AIRY, 1 10'-0" ENCLOSE	287, NC 270	030
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



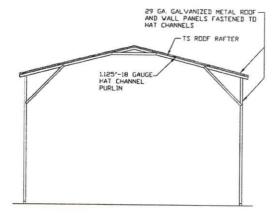
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



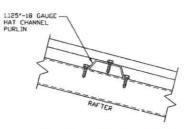
TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



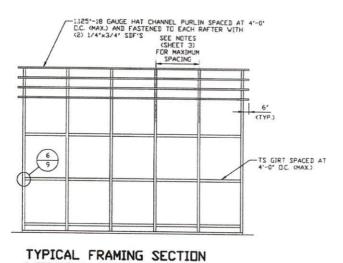
TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)



MOORE AND ASSOCIATES

VERTICAL ROOF/SIDING OPTION

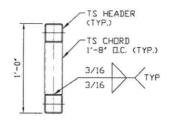
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ENGINEERING AND CONSULTING, INC.

SEAL 26784
JAN 3 0 2019

CLIENTI SEST	SHT. 12	DVG ND SK-	-3	REV. 6A
PROJECT MGR: WSM	DATE: 12-14-18	SCALE: NTS	JOB	18068S/ ND 18156S/18290S
CHECKED BY: PDH	parentes 2	MOUNT AIRY, 20'-0" ENCLOS		
DRAWN BY: AT	STEEL BU	ILDINGS AND P.O. BOX		CTURES, INC.

OPTIONAL HEADER



HEADER DETAIL FOR DOOR

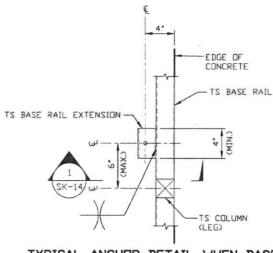
OPENINGS 12'-0" < LENGTH \(\) 20'-0"

SCALE: NTS

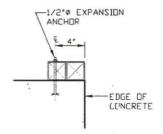


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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE			
MOORE AND ASSOCIATES	DRAWN BY: AT	P.O. BOX 1287,			

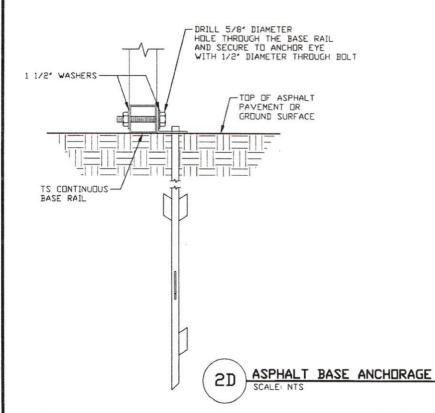
ADDITIONAL BASE RAIL ANCHORAGE OPTION



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE



SECTION SCALE: NTS SK-14



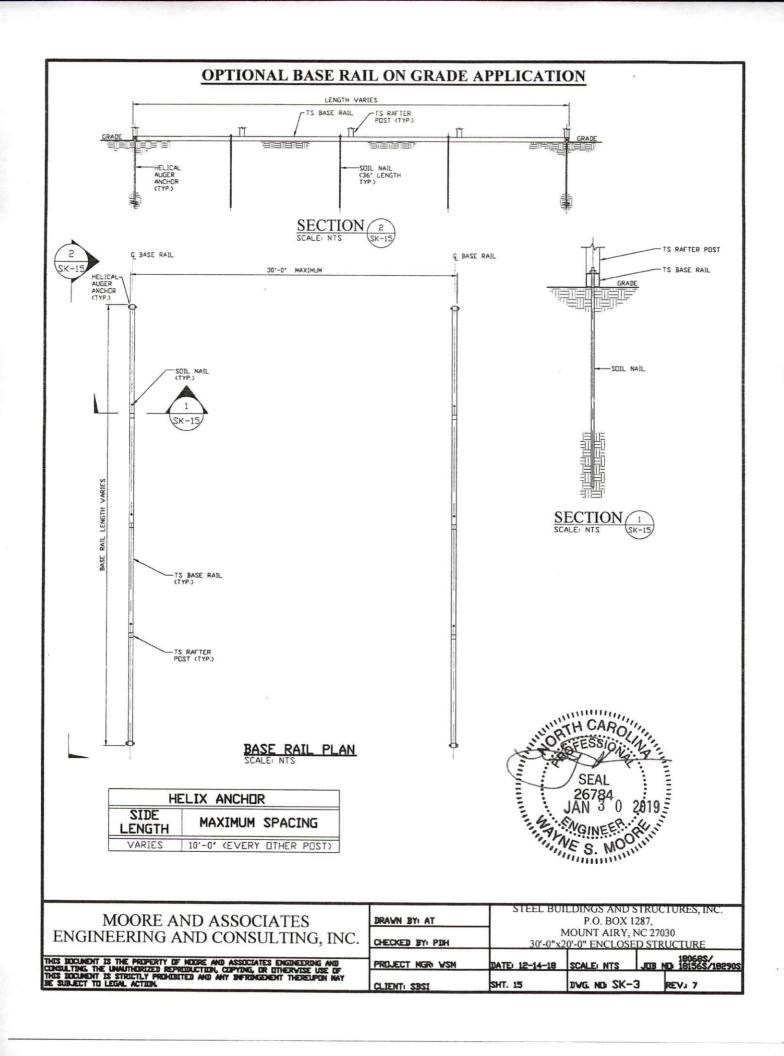


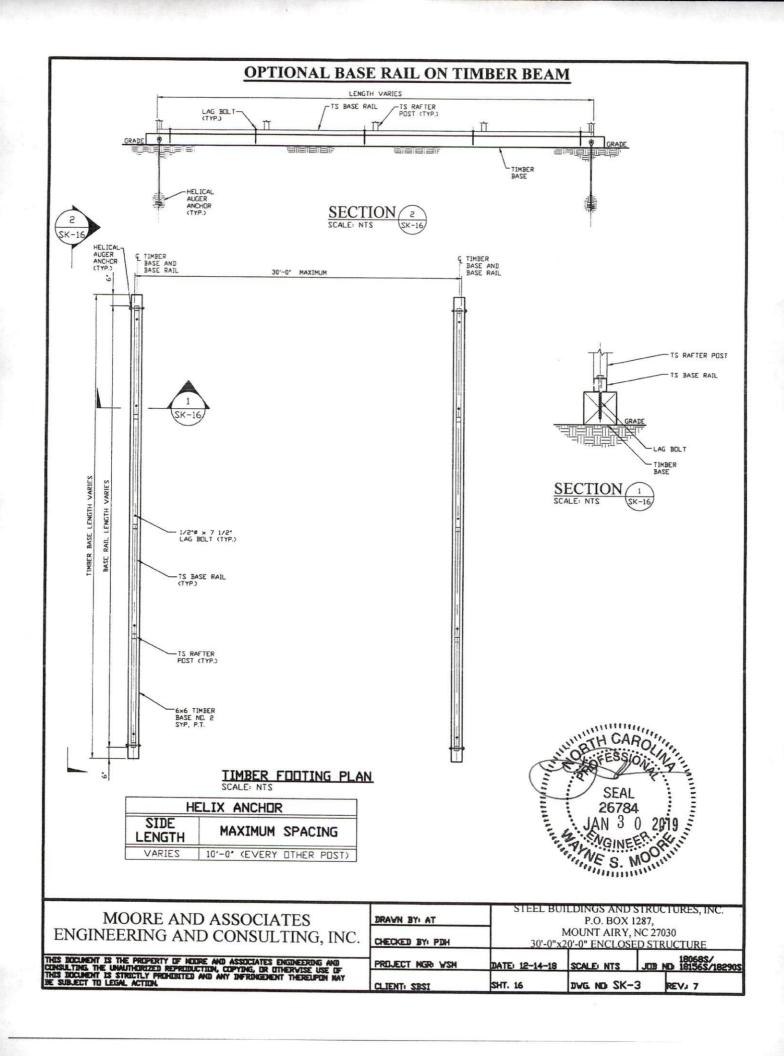
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ENGINEERING AND CONSULTING, I	NC.

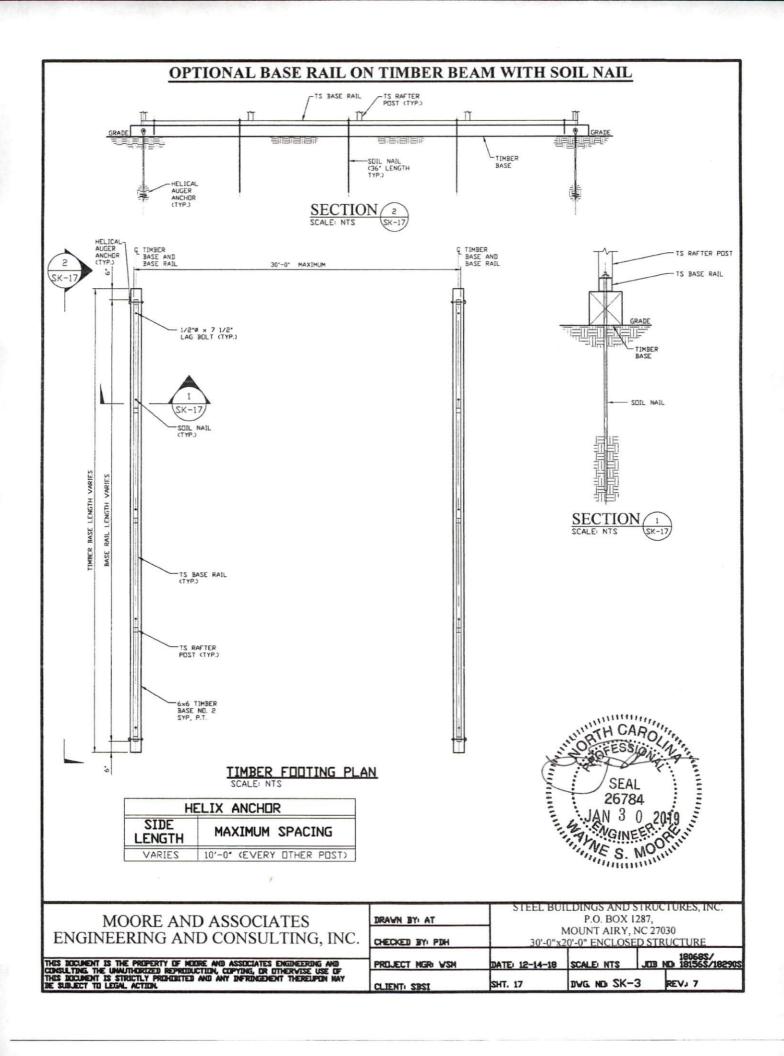
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	STEEL BUILDINGS AND STRUCTURES, INC.
RAWN BY AT	P.O. BOX 1287,
	MOUNT AIRY, NC 27030
HECKED BY PDH	30'-0"x20'-0" ENCLOSED STRUCTURE

PROJECT MGR: WSM DATE: 12-14-18 SHT. 14 DWG ND SK-3 REV. 7 CLIENT: SBSI







OPTIONAL CONCRETE STRIP FOOTING C FOOTING AND BASE RAIL 30'-0' MAXIMUM SK-18 VARIES LENGTH 1/2'@ EXPANSION ANCHOR (TYP.) RAIL FUUTING BASE TS BASE RAIL CENCRETE STRIP FEDTING (3000 PSI MIN.) CONCRETE STRIP FOOTING PLAN SCALE: NTS TS RAFTER POST TS BASE RAIL SEAL 26784 JAN 3 0 2019 WE S. MOORING GRADE CMIMD INSTALL 1/2'x6 3/4' EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN. MININUM 3 1/4' EMBEDMENT (TYP.) CLR. SECTION (SK-18 * COORDINATE WITH LOCAL CODES/ORD. STEEL BUILDINGS AND STRUCTURES, INC. MOORE AND ASSOCIATES DRAWN BY AT P.O. BOX 1287. ENGINEERING AND CONSULTING, INC. MOUNT AIRY, NC 27030 CHECKED BY: PDH 30'-0"x20'-0" ENCLOSED STRUCTURE 18068S/ JUB ND 18156S/18290S THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION. PROJECT MGR VSM DATE: 12-14-18 SCALE: NTS SHT. 18 REVJ 7 DAC NO 2K-3 CLIENT: SBSI