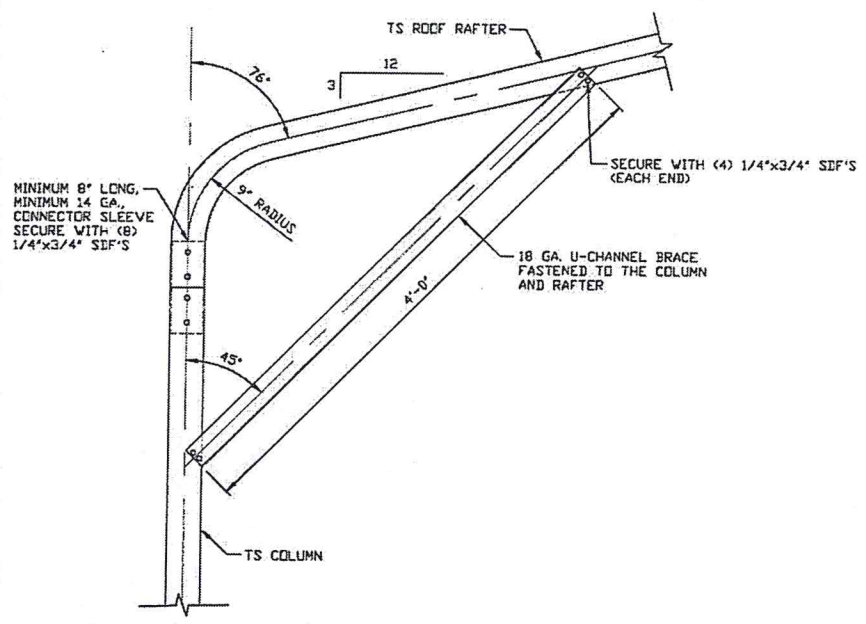
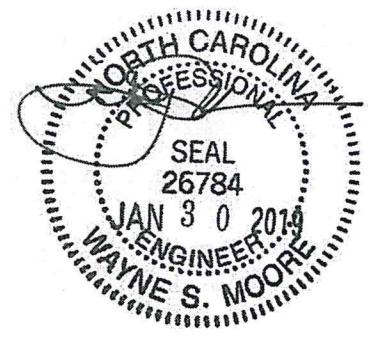


**BRACE SECTION**  
SCALE: NTS

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

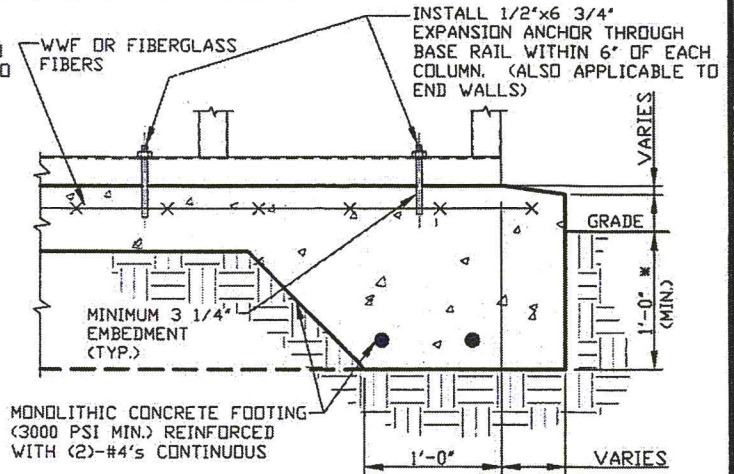
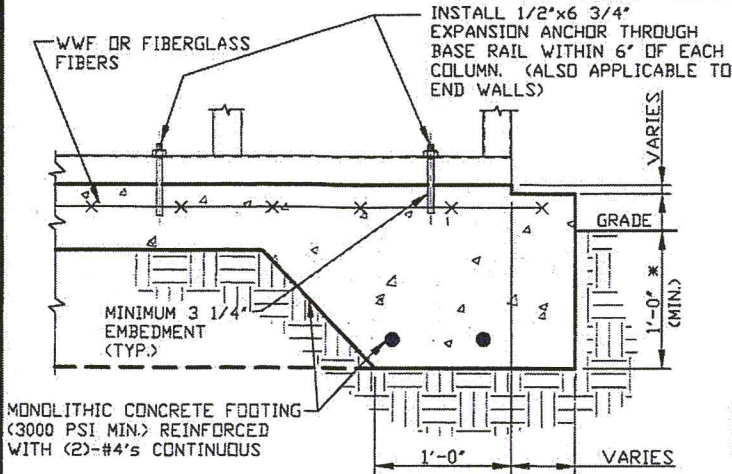


**1C**  
**BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL**  
**FOR HEIGHTS ≤ 12'-0"**  
SCALE: NTS



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	CHECKED BY: PDH			
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	CLIENT: SBST	SHT. 6A	DWG. NO SK-3	REV: 7

# BASE RAIL ANCHORAGE OPTIONS



**2A CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE**  
 SCALE: NTS  
 MINIMUM ANCHOR EDGE DISTANCE IS 4".  
 \* COORDINATE WITH LOCAL CODES/ORD.

**2B CONCRETE SLAB BASE RAIL ANCHORAGE**  
 SCALE: NTS  
 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 1 1/2" ELSEWHERE.

### REINFORCING STEEL:

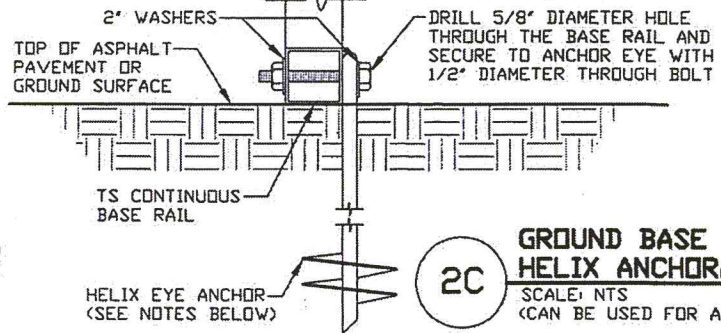
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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

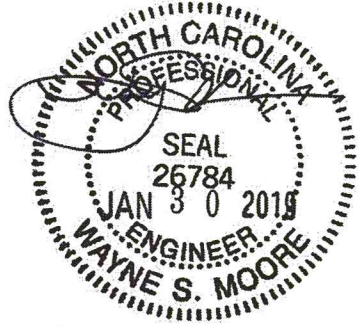
1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

### 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.
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.
4. 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.



**2C GROUND BASE HELIX ANCHORAGE**  
 SCALE: NTS  
 (CAN BE USED FOR ASPHALT)



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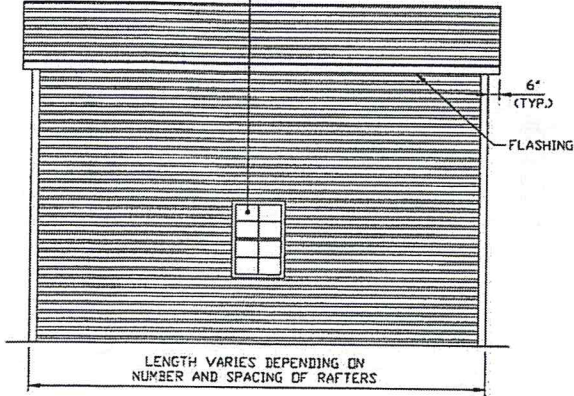
STEEL BUILDINGS AND STRUCTURES, INC.  
 P.O. BOX 1287,  
 MOUNT AIRY, NC 27030  
 30'-0" x 20'-0" ENCLOSED STRUCTURE

PROJECT MGR: WSM	DATE: 12-14-18	SCALE: NTS	JOB NO: 180685/182905
CLIENT: SBSI	SHT. 7	DWG. NO: SK-3	REV: 7

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# BOW EAVE FRAME RAFTER STRUCTURE

WINDOW (AS APPLICABLE)  
DESIGN PRESSURE  
(21.8 PSF, -23.6 PSF)

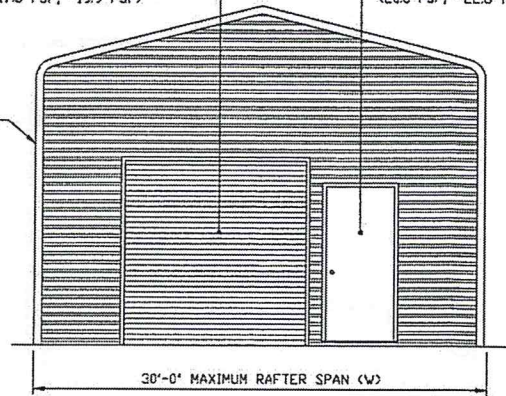


**TYPICAL SIDE ELEVATION**  
SCALE: NTS

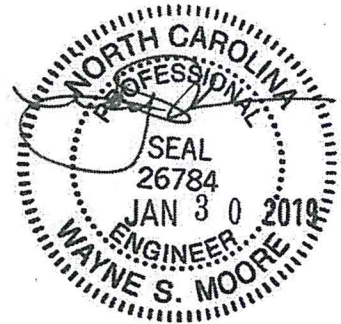
ROLL-UP DOOR  
(AS APPLICABLE)  
DESIGN PRESSURE  
(17.5 PSF, -19.9 PSF)

PERSONNEL DOOR  
(AS APPLICABLE)  
DESIGN PRESSURE  
(20.8 PSF, -22.6 PSF)

FLASHING



**TYPICAL END ELEVATION**  
SCALE: NTS



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DATE: 12-14-18

SHT. 3B

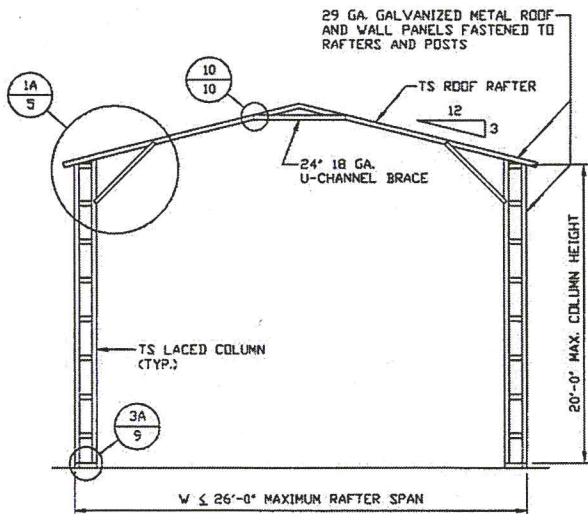
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DWG. NO: SK-3

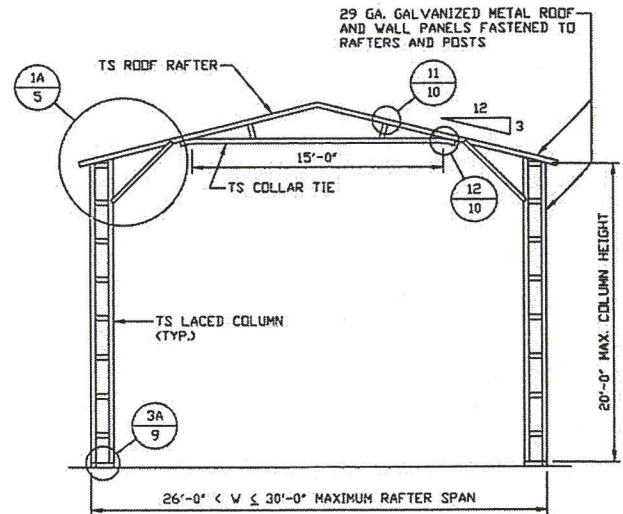
JOB NO: 18068S/  
18156S/18290S

REV: 7

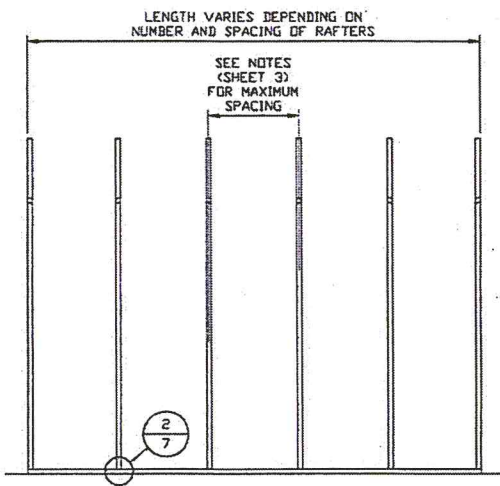
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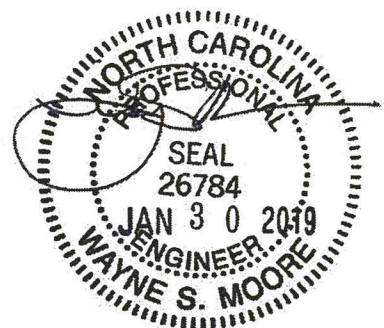
**TYPICAL RAFTER/COLUMN FRAME SECTION**  
SCALE: NTS



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



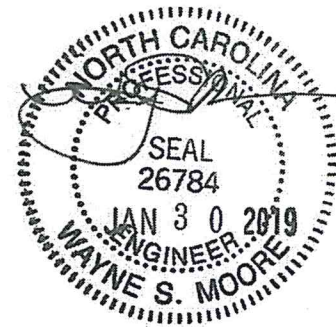
**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**  
SCALE: NTS



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	CLIENT: SBSI	SHT. 4	DWG. NO: SK-3	REV: 7	

## 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 ( $\leq 26'-0"$ ), 35 PSF ( $26'-0" < W \leq 30'-0"$ )  
(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); 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 ON-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 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.
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:
  - SOIL SITE CLASS = D
  - RISK CATEGORY I/II/III
  - R = 3.25                       $I_E = 1.0$
  - $S_{DS} = 2.039$                  $V = C_s W$
  - $S_{D1} = 1.258$
14. WINDOW AND DOOR DESIGN PRESSURES ARE APPLICABLE TO THE STATE OF FLORIDA ONLY.



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PROJECT MGR: WSH

CLIENT: SBSI

STEEL BUILDINGS AND STRUCTURES, INC.  
 P.O. BOX 1287,  
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 30'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 12-14-18

SCALE: NTS

JOB NO: 18068S/  
18156S/18290S

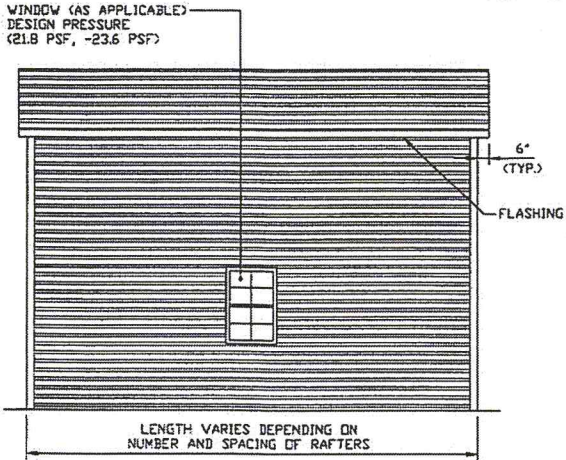
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DWG. NO: SK-3

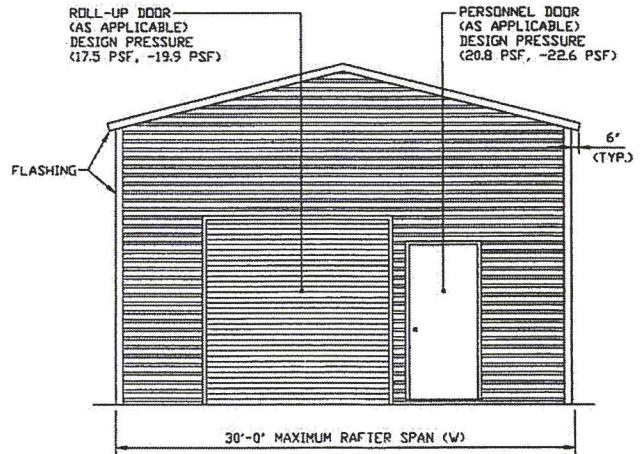
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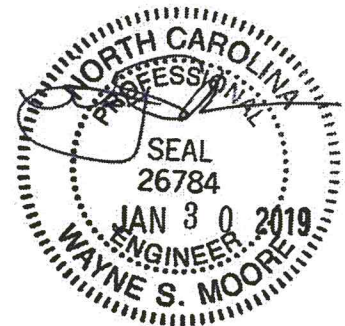
# BOX EAVE FRAME RAFTER STRUCTURE



**TYPICAL SIDE ELEVATION**  
SCALE: NTS



**TYPICAL END ELEVATION**  
SCALE: NTS



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**PROJECT MGR: VSM**

**CLIENT: SBSI**

**STEEL BUILDINGS AND STRUCTURES, INC.**

P.O. BOX 1287,  
MOUNT AIRY, NC 27030

**30'-0" x 20'-0" ENCLOSED STRUCTURE**

**DATE: 12-14-18**

**SCALE: NTS**

**JOB NO: 180683/182905**

**SHT. 3A**

**DRG. NO: SK-3**

**REV: 7**

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**PROJECT MGR: VSM**  
**CLIENT: SBSI**

**DATE: 12-14-18**    **SCALE: NTS**    **JOB NO: 18069S/18136S/18290S**  
**SHT. 1A**    **DWG. NO: SK-3**    **REV: 7**

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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)
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SHEET 17	OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL
SHEET 18	OPTIONAL CONCRETE STRIP FOOTING



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## **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:**

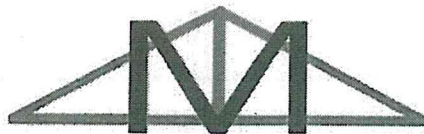
**Moore and Associates Engineering  
and Consulting, Inc.**

**1009 East Avenue**

**North Augusta, SC 29841**

**401 S. Main St., Suite 200**

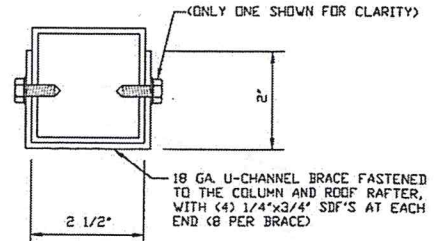
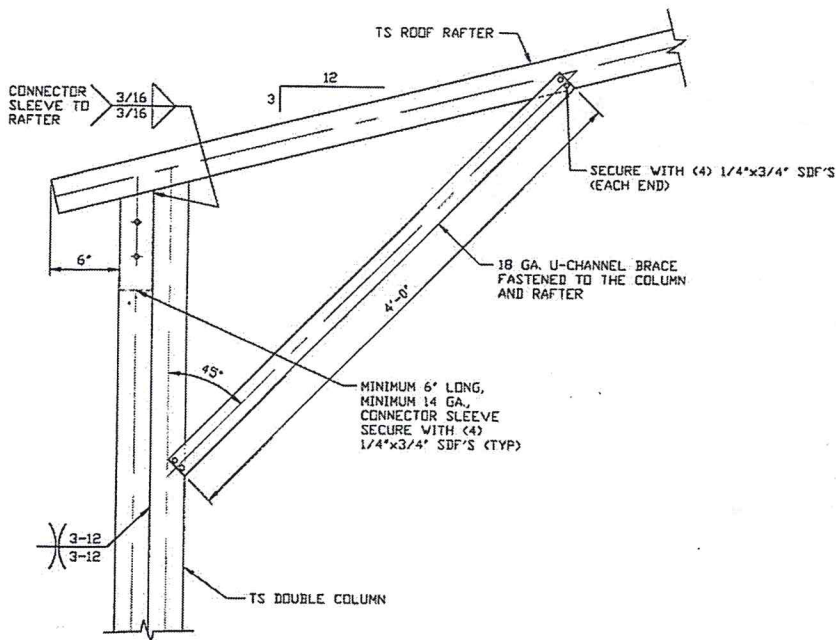
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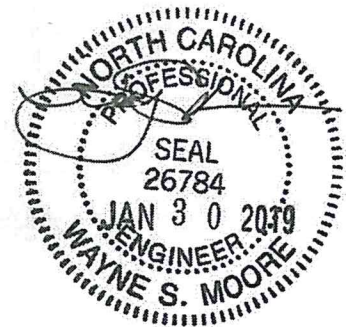
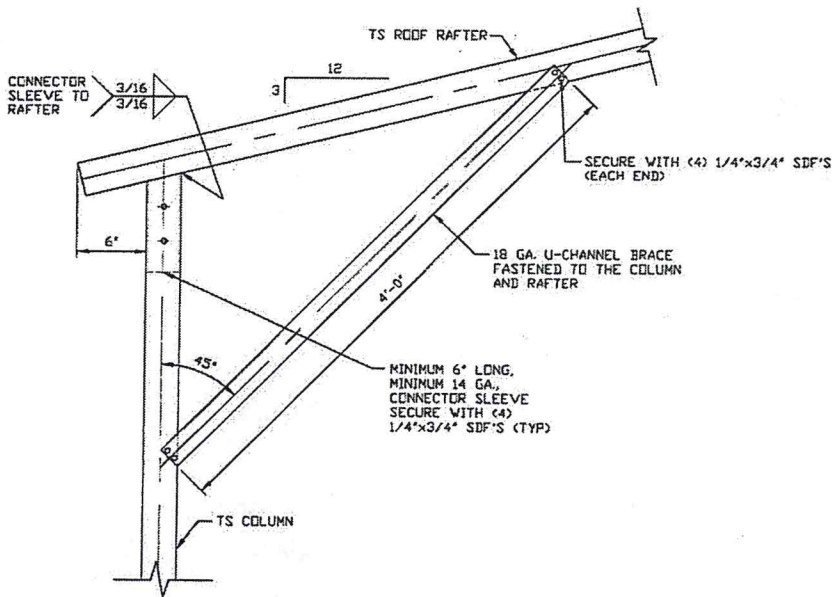






**BRACE SECTION**  
SCALE: NTS

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

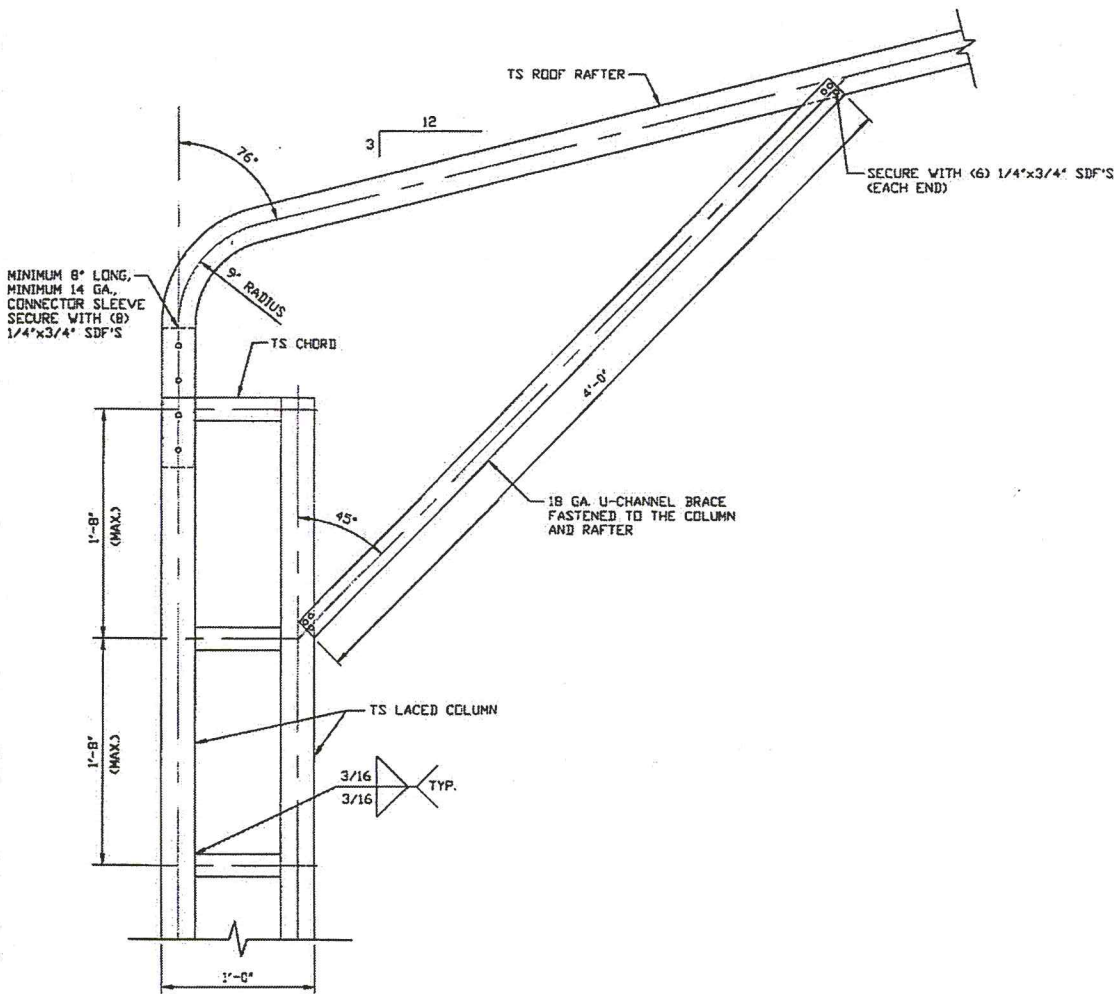


**1C**  
**BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL**  
**FOR HEIGHTS ≤ 12'-0"**  
SCALE: NTS

**MOORE AND ASSOCIATES**  
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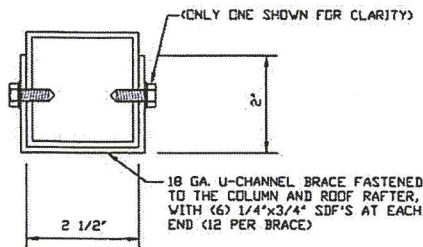
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PROJECT NGR: VSH		30'-0" x 20'-0" ENCLOSED STRUCTURE	
DATE: 12-14-18	SCALE: NTS	JOB NO: 180585/182905	REV: 7
CLIENT: SBSI	SHT. 5A	DWG. NO: SK-3	

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1A

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



**BRACE SECTION**  
 SCALE: NTS



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**DRAWN BY: AT**

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**PROJECT MGR: VSM**

**CLIENT: SBST**

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 P.O. BOX 1287,  
 MOUNT AIRY, NC 27030  
 30'-0" x 20'-0" ENCLOSED STRUCTURE

**DATE: 12-14-18**

**SCALE: NTS**

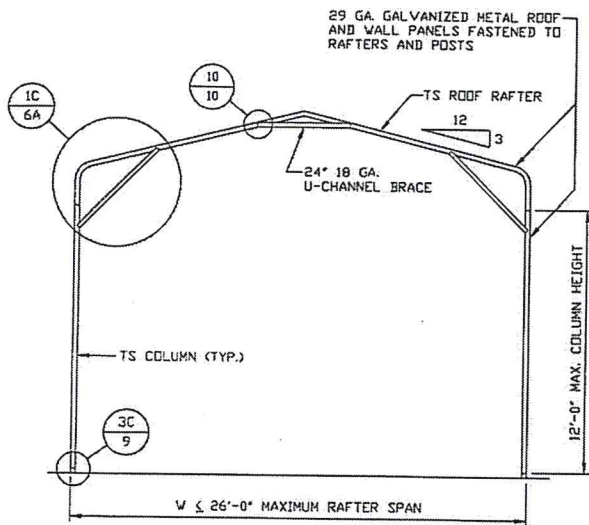
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**SHT. 6**

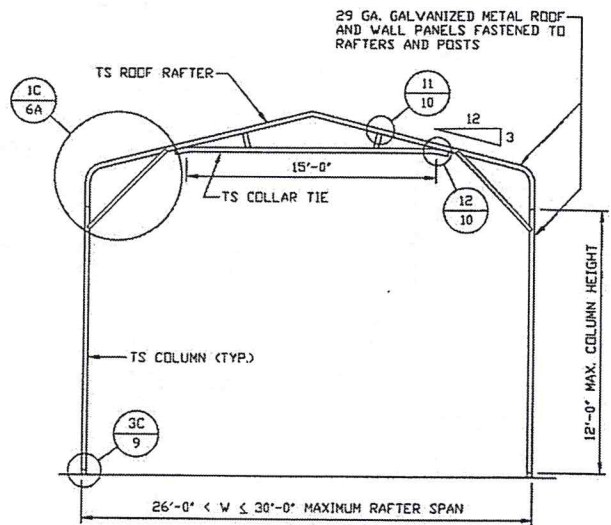
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**REV: 7**

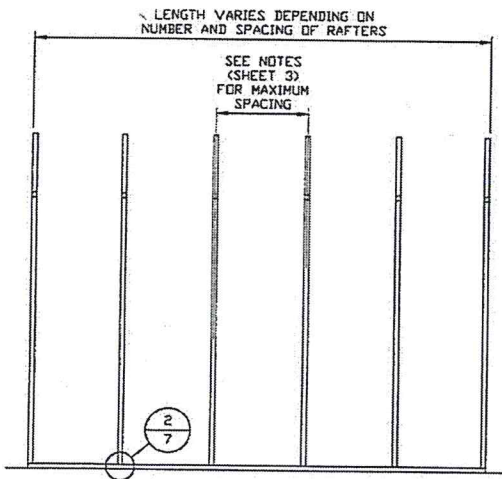
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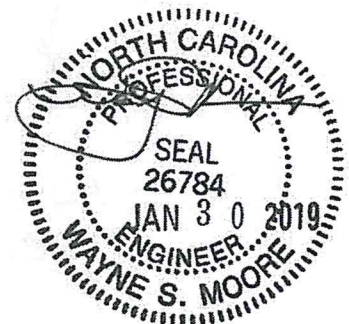
**TYPICAL RAFTER/COLUMN FRAME SECTION**  
SCALE: NTS



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



**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**  
SCALE: NTS



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PROJECT NGR VSM

CLIENT: SBSI

STEEL BUILDINGS AND STRUCTURES, INC.  
P.O. BOX 1287,  
MOUNT AIRY, NC 27030  
30'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 12-14-18

SCALE: NTS

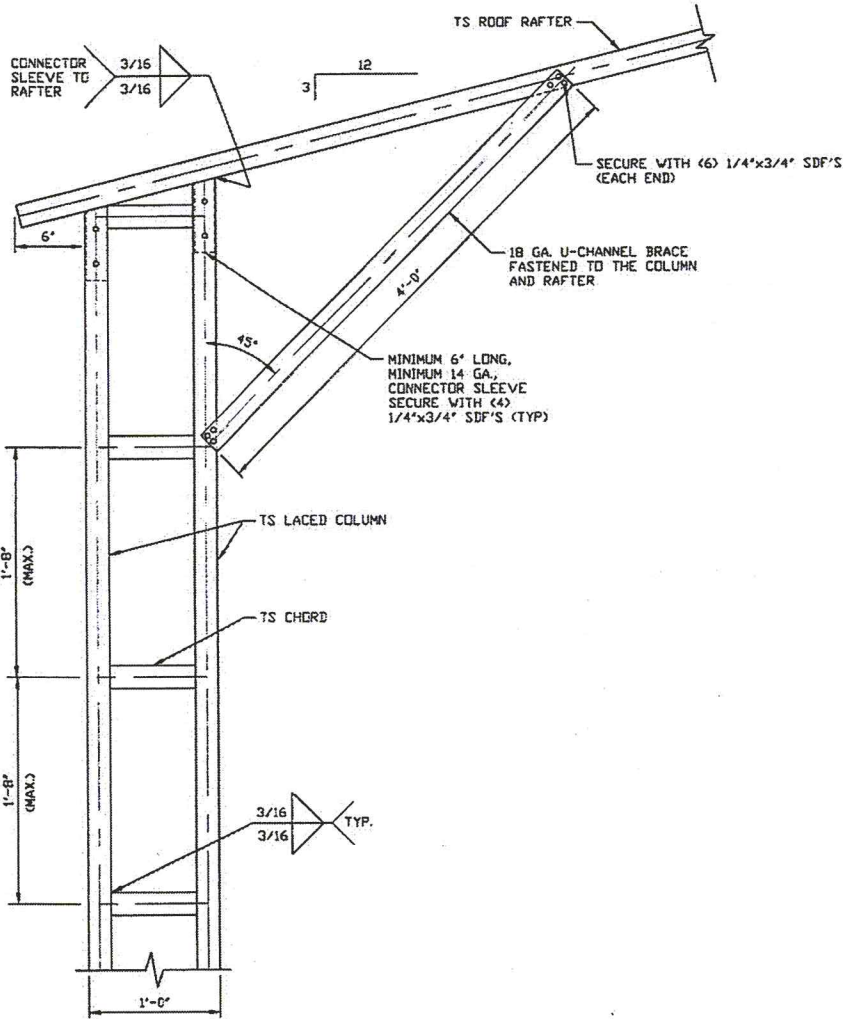
JOB NO: 180695/  
181565/182905

SHT. 4E

JWG. NO. SK-3

REV. 7

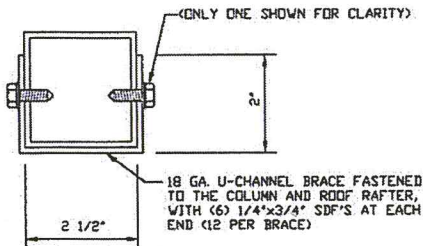
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**BOX EAVE RAFTER/CORNER POST  
CONNECTION DETAIL  
FOR HEIGHTS 16'-0" < TO ≤ 20'-0"**

1A

SCALE: NTS



**BRACE SECTION**

SCALE: NTS



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**CHECKED BY: PDH**

**PROJECT MGR: VSM**

**CLIENT: SBSI**

STEEL BUILDINGS AND STRUCTURES, INC.  
P.O. BOX 1287,  
MOUNT AIRY, NC 27030  
30'-0" x 20'-0" ENCLOSED STRUCTURE

**DATE: 12-14-18**

**SHT. 5**

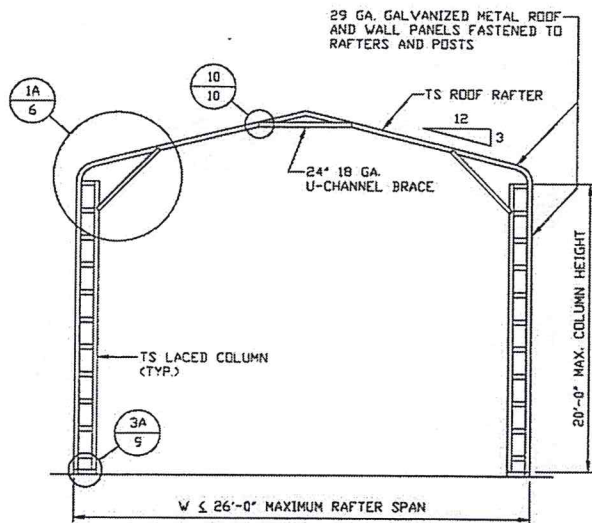
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**DWG. NO: SK-3**

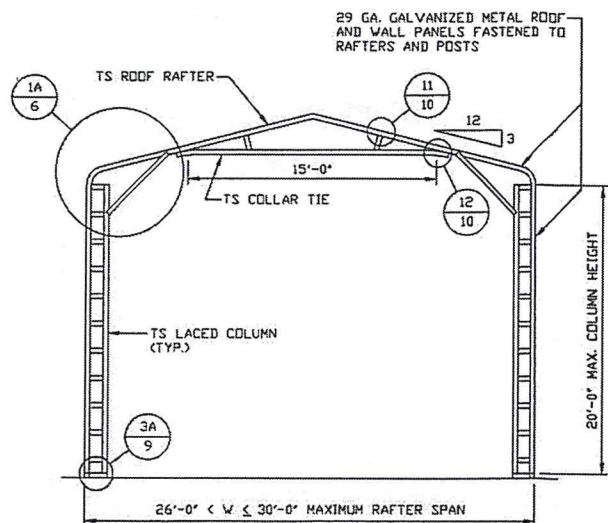
**JOB NO: 18068S/18290S**

**REV: 7**

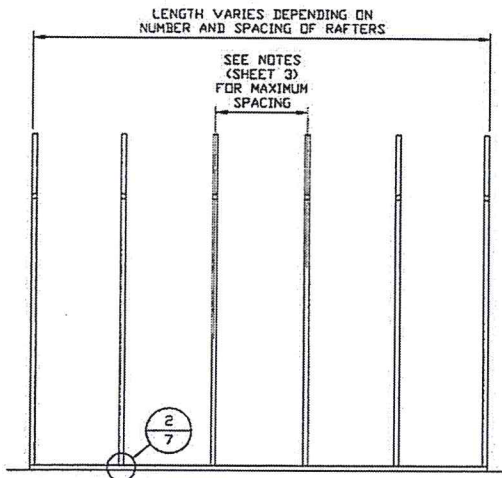
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**TYPICAL RAFTER/COLUMN FRAME SECTION**  
SCALE: NTS



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



**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**  
SCALE: NTS



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**STEEL BUILDINGS AND STRUCTURES, INC.**  
P.O. BOX 1287,  
MOUNT AIRY, NC 27030  
30'-0" x 20'-0" ENCLOSED STRUCTURE

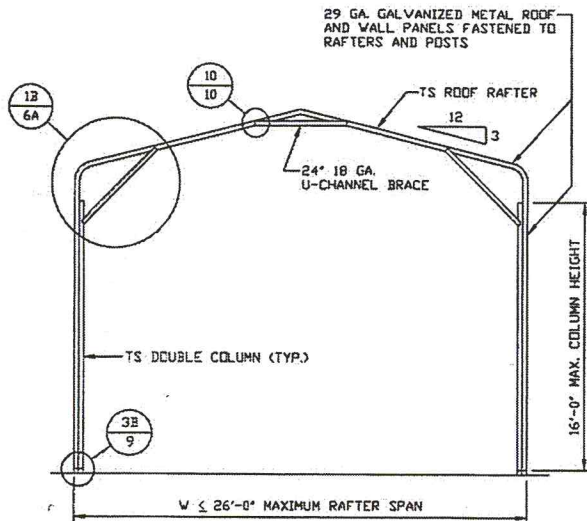
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**PROJECT MGR: WSH**  
**CLIENT: SBSI**

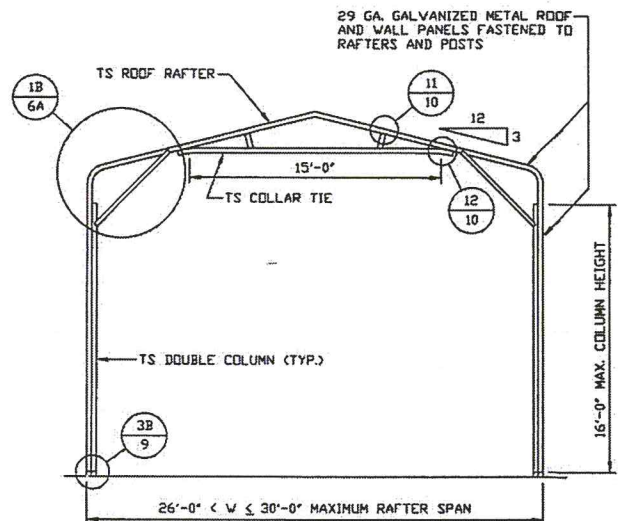
**DATE: 12-14-18**  
**SHT. 4C**

**SCALE: NTS**  
**DWG. NO: SK-3**

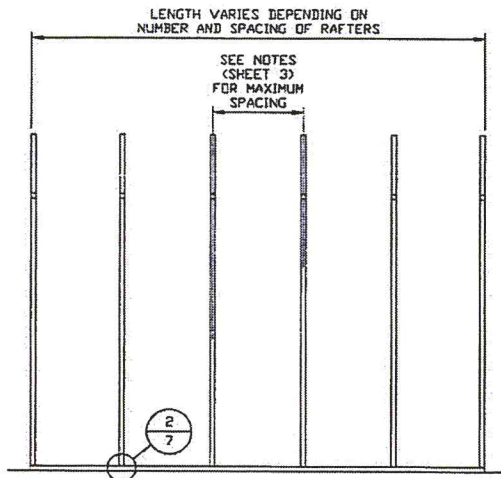
**JOB NO: 181563/182905**  
**REV: 7**



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



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



**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**  
SCALE: NTS



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CLIENT: SBSI

STEEL BUILDINGS AND STRUCTURES, INC.  
P.O. BOX 1287,  
MOUNT AIRY, NC 27030  
30'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 12-14-18

SCALE: NTS

JOB NO: 180685/  
181563/182905

SHT. 4D

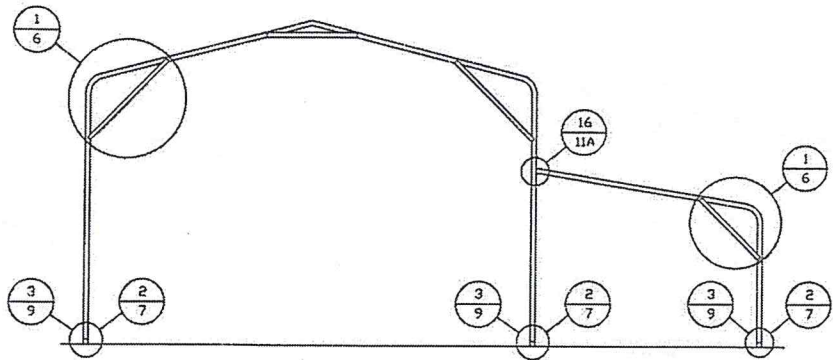
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REV: 7

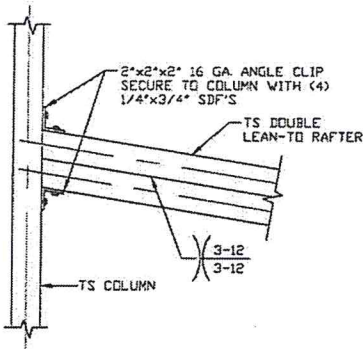
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# BOW EAVE RAFTER LEAN-TO OPTIONS

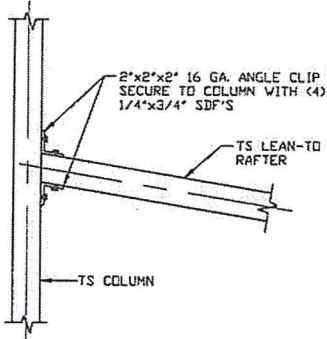


**TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION**  
SCALE: NTS



**LEAN-TO RAFTER TO  
RAFTER POST CONNECTION  
DETAIL FOR WIDTHS  
12'-0" < TO ≤ 16'-0"**  
SCALE: NTS

16A



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

16B



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**PROJECT MGR: WSM**

**CLIENT: SBSI**

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

**DATE: 12-14-18**

**SCALE: NTS**

**JOB NO: 18069S/  
18156S/18230S**

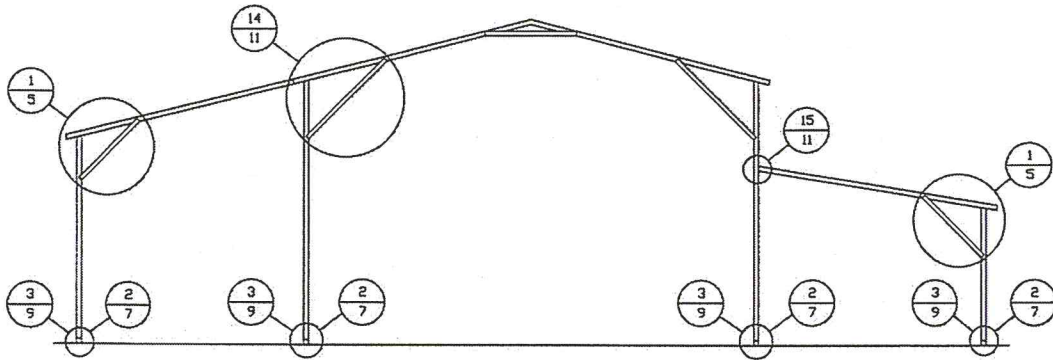
**SHT. 11A**

**DWG. NO: SK-3**

**REV: 7**

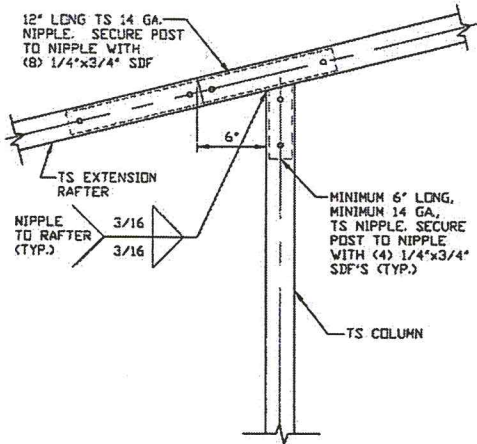
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# BOX EAVE RAFTER LEAN-TO OPTIONS



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

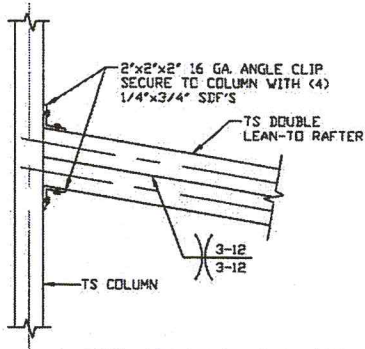
SCALE: NTS



**SIDE EXTENSION RAFTER/  
CORNER POST DETAIL**

14

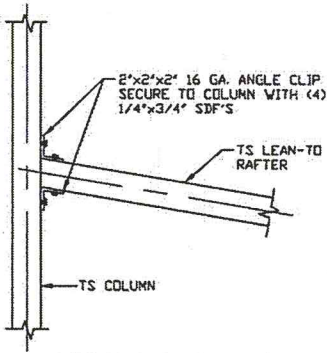
SCALE: NTS



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

15A

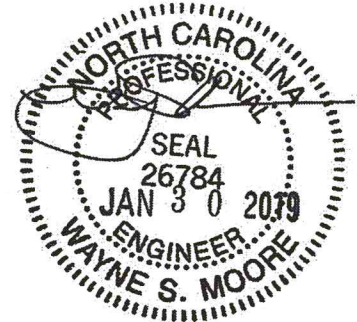
SCALE: NTS



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

15B

SCALE: NTS



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CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: SBST

STEEL BUILDINGS AND STRUCTURES, INC.

P.O. BOX 1287,

MOUNT AIRY, NC 27030

30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 12-14-18

SHT. 11

SCALE: NTS

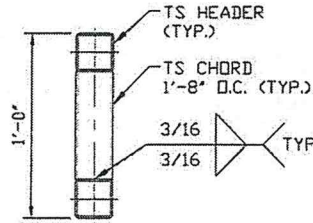
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JOB NO. 180695/182903

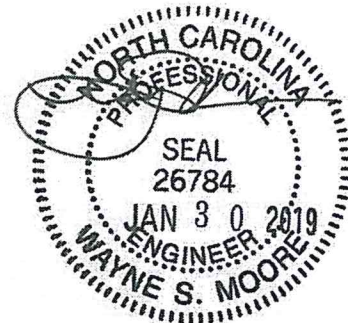
REV: 7

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**OPTIONAL HEADER**



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



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**PROJECT MGR: VSH**

**CLIENT: SBSI**

**STEEL BUILDINGS AND STRUCTURES, INC.  
 P.O. BOX 1287,  
 MOUNT AIRY, NC 27030  
 30'-0" x 20'-0" ENCLOSED STRUCTURE**

**DATE: 12-14-18**

**SCALE: NTS**

**JOB NO: 18069S/  
 18156S/18290S**

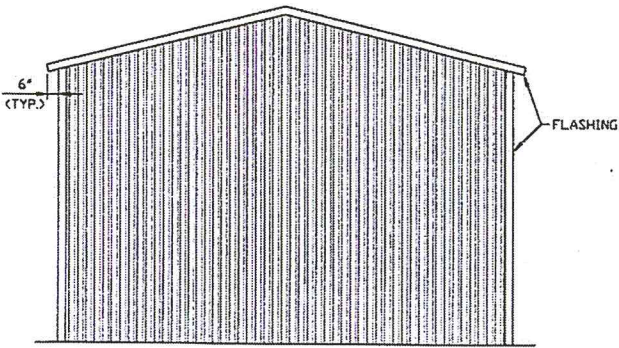
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**DWG. NO: SK-3**

**REV: 7**

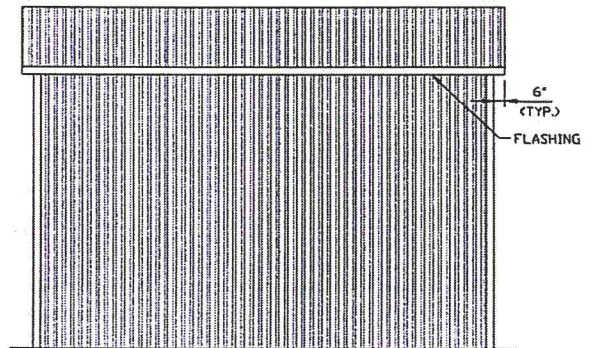
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# BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



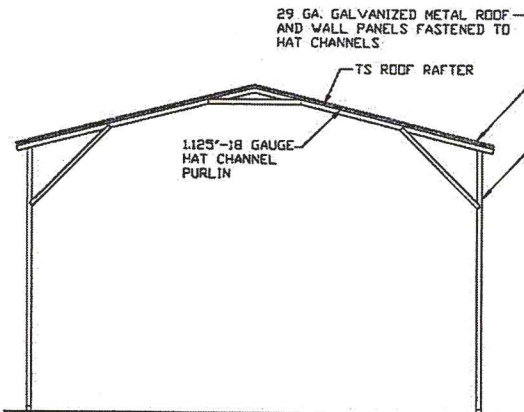
**TYPICAL END ELEVATION  
VERTICAL ROOF/SIDING**

SCALE: NTS



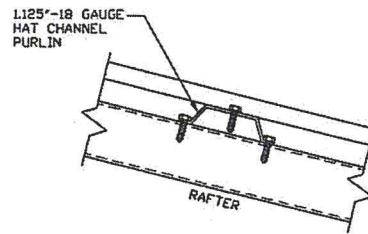
**TYPICAL SIDE ELEVATION  
VERTICAL ROOF/SIDING**

SCALE: NTS



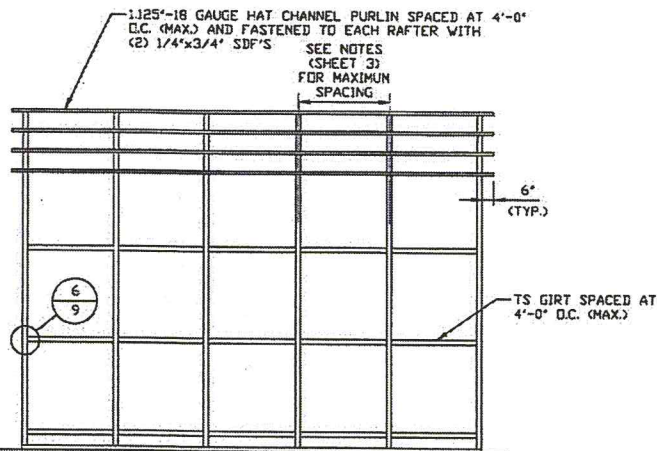
**TYPICAL SECTION  
VERTICAL ROOF/SIDING OPTION**

SCALE: NTS



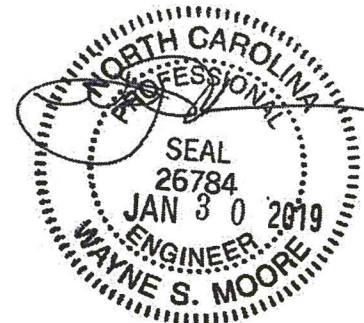
**PANEL ATTACHMENT**

(ALTERNATE FOR VERTICAL ROOF PANELS)  
SCALE: NTS



**TYPICAL FRAMING SECTION  
VERTICAL ROOF/SIDING OPTION**

SCALE: NTS



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PROJECT MGR: WSN

CLIENT: SBSI

STEEL BUILDINGS AND STRUCTURES, INC.  
P.O. BOX 1287,  
MOUNT AIRY, NC 27030  
30'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 12-14-18

SCALE: NTS

JOB NO: 180685/182905

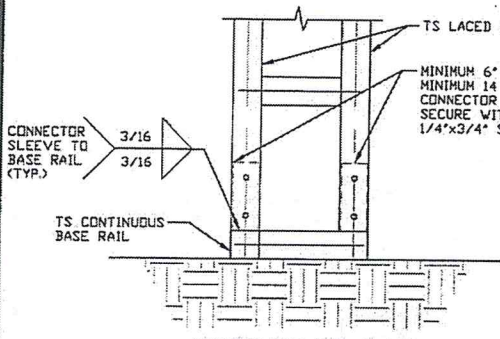
SHT. 12

DWG. NO: SK-3

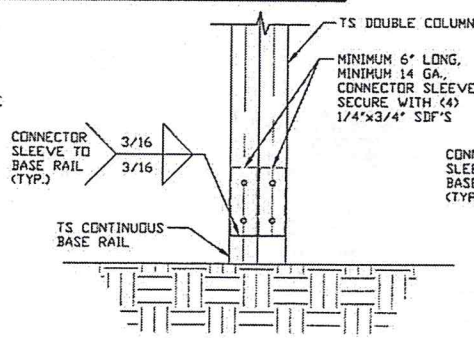
REV: 6A

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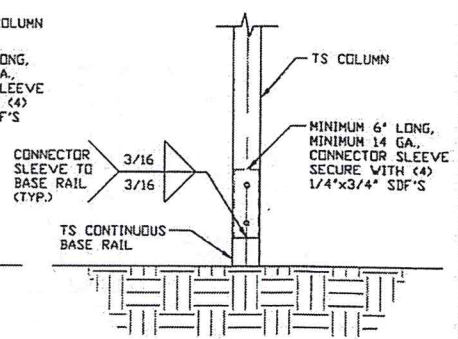
# CONNECTION DETAILS



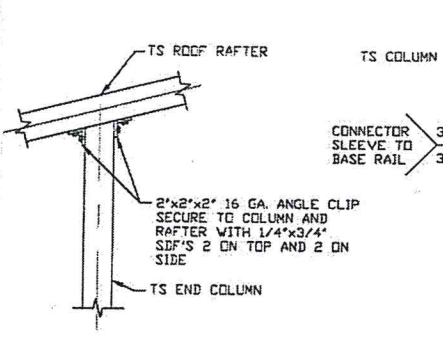
**3A** POST/BASE RAIL CONNECTION DETAIL  
SCALE: NTS



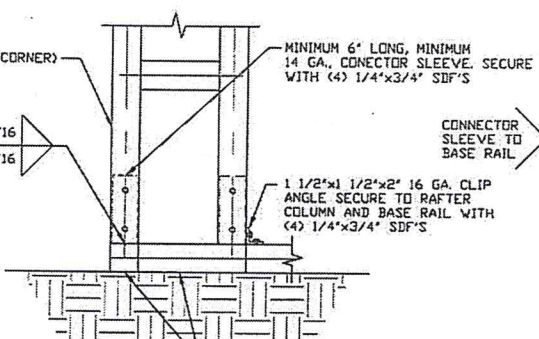
**3B** POST/BASE RAIL CONNECTION DETAIL  
SCALE: NTS



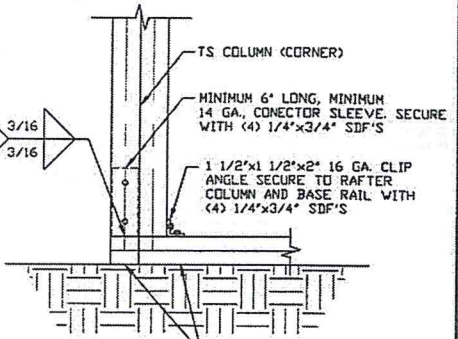
**3C** POST/BASE RAIL CONNECTION DETAIL  
SCALE: NTS



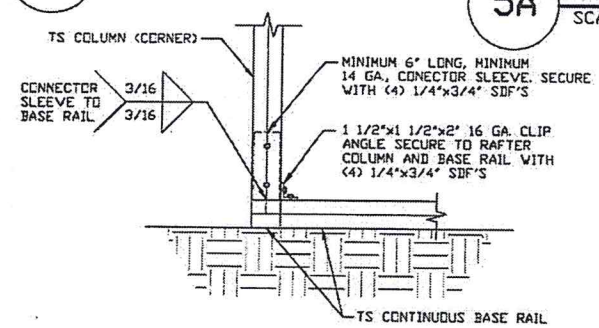
**4** END COLUMN/RAFTER CONNECTION DETAIL  
SCALE: NTS



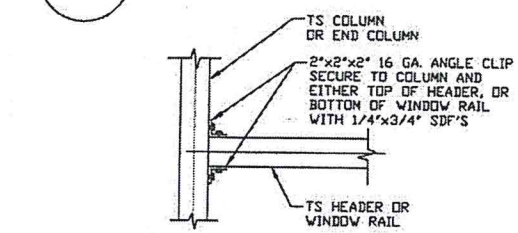
**5A** END COLUMN/BASE RAIL CONNECTION DETAIL  
SCALE: NTS



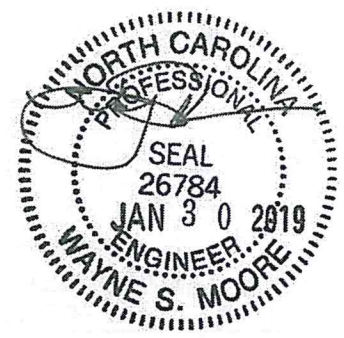
**5B** END COLUMN/BASE RAIL CONNECTION DETAIL  
SCALE: NTS



**5B** END COLUMN/BASE RAIL CONNECTION DETAIL  
SCALE: NTS



**6** COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL  
SCALE: NTS

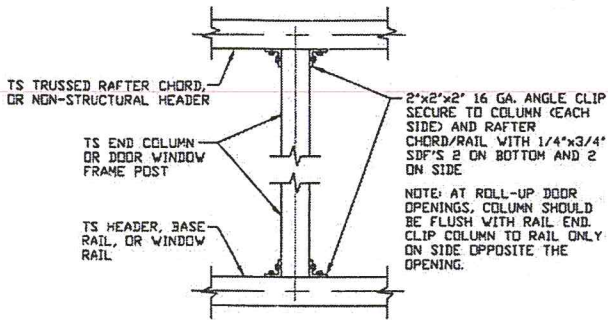


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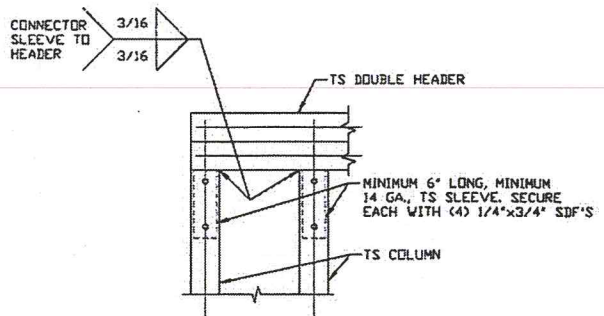
DRAWN BY: AT		STEEL BUILDINGS AND STRUCTURES, INC.	
CHECKED BY: PDH		P.O. BOX 1287, MOUNT AIRY, NC 27030	
PROJECT MGR: WSM	DATE: 12-14-18	SCALE: NTS	JOB NO: 180695/ 181363/182905
CLIENT: SBSI	SHT. 9	DWG. NO: SK-3	REV. 7

# CONNECTION DETAILS



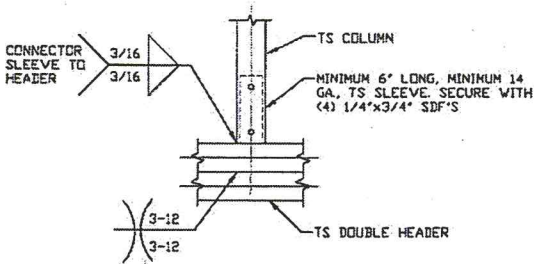
**7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL**

SCALE: NTS



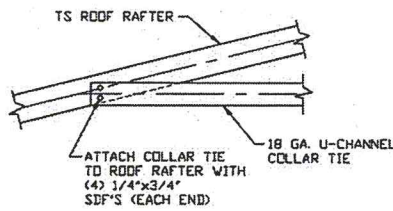
**8 DOUBLE HEADER/COLUMN CONNECTION DETAIL**

SCALE: NTS



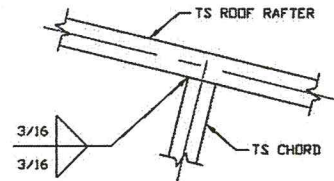
**9 COLUMN/DOUBLE HEADER CONNECTION DETAIL**

SCALE: NTS



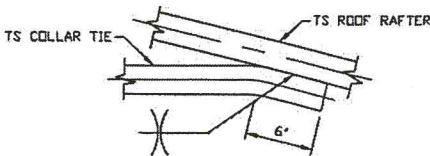
**10 COLLAR TIE CONNECTION DETAIL**

SCALE: NTS



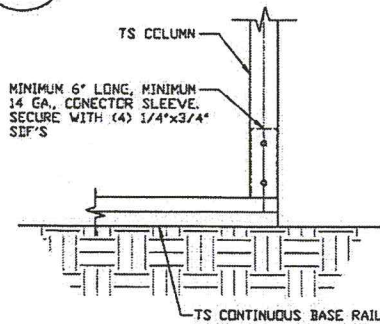
**11 RAFTER TO CHORD CONNECTION DETAIL**

SCALE: NTS



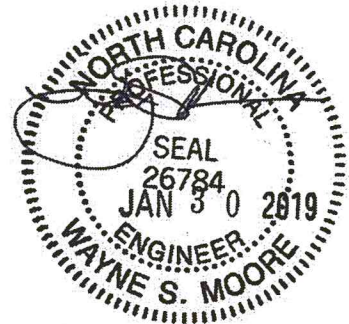
**12 COLLAR TIE CONNECTION DETAIL**

SCALE: NTS



**13 COLUMN/BASE RAIL CONNECTION DETAIL**

SCALE: NTS



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P.O. BOX 1287,  
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30'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 12-14-18

SCALE: NTS

SHT. 10

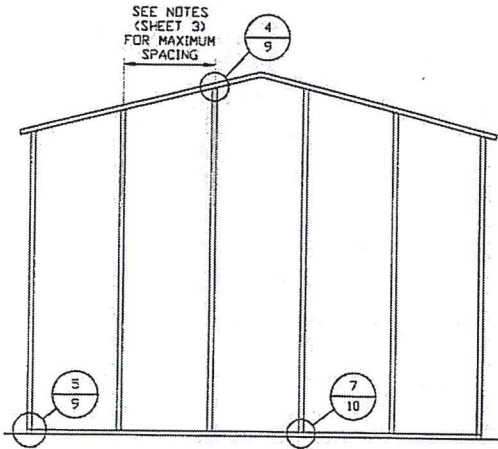
DWG. NO: SK-3

180685/  
JOB NO: 181565/182905

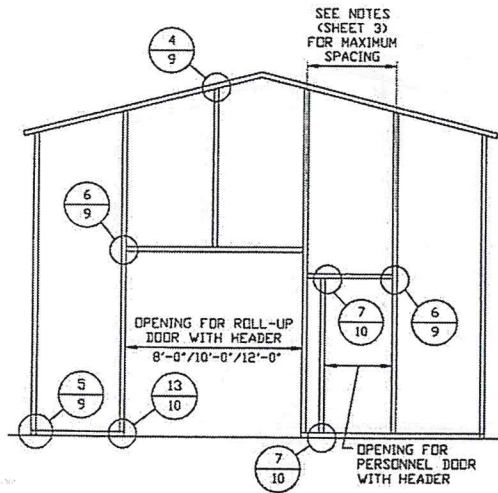
REV: 7

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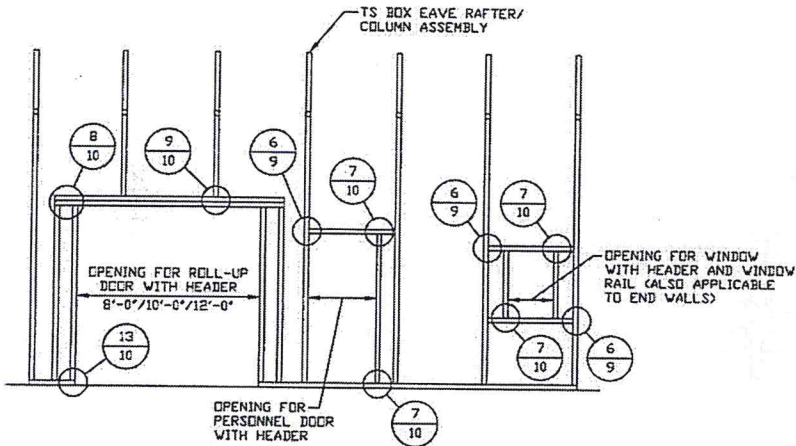
# BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



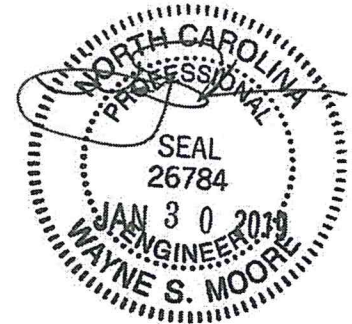
**TYPICAL BOX EAVE RAFTER  
END WALL FRAMING SECTION**  
SCALE: NTS



**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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**DRAWN BY: AT**

**CHECKED BY: PDH**

**PROJECT MGR: VSM**

**CLIENT: SBSI**

STEEL BUILDINGS AND STRUCTURES, INC.  
P.O. BOX 1287,  
MOUNT AIRY, NC 27030  
30'-0" x 20'-0" ENCLOSED STRUCTURE

**DATE: 12-14-18**

**SCALE: NTS**

**DWG. NO: SK-3**

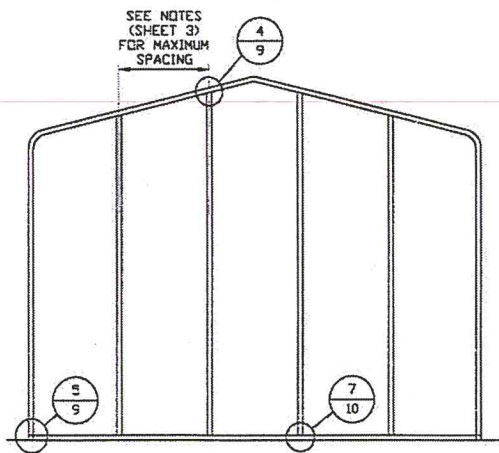
**JOB NO: 180683/181565/182905**

**SHT. 8**

**REV: 7**

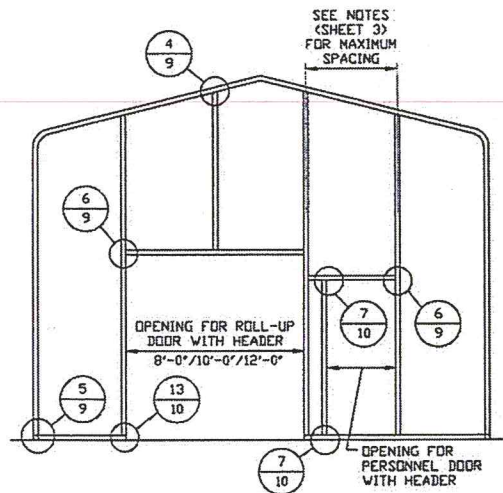
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# BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



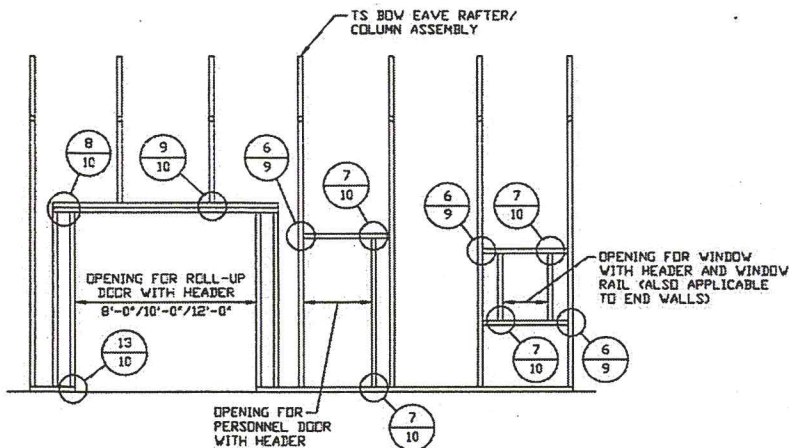
**TYPICAL BOX EAVE RAFTER  
END WALL FRAMING SECTION**

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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ENGINEERING AND CONSULTING, INC.**

DRAWN BY: AT

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: SSSI

STEEL BUILDINGS AND STRUCTURES, INC.  
P.O. BOX 1287,  
MOUNT AIRY, NC 27030  
30'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 12-14-18

SCALE: NTS

JOB NO: 180685/182905

SHT. 8A

DWG. NO: SK-3

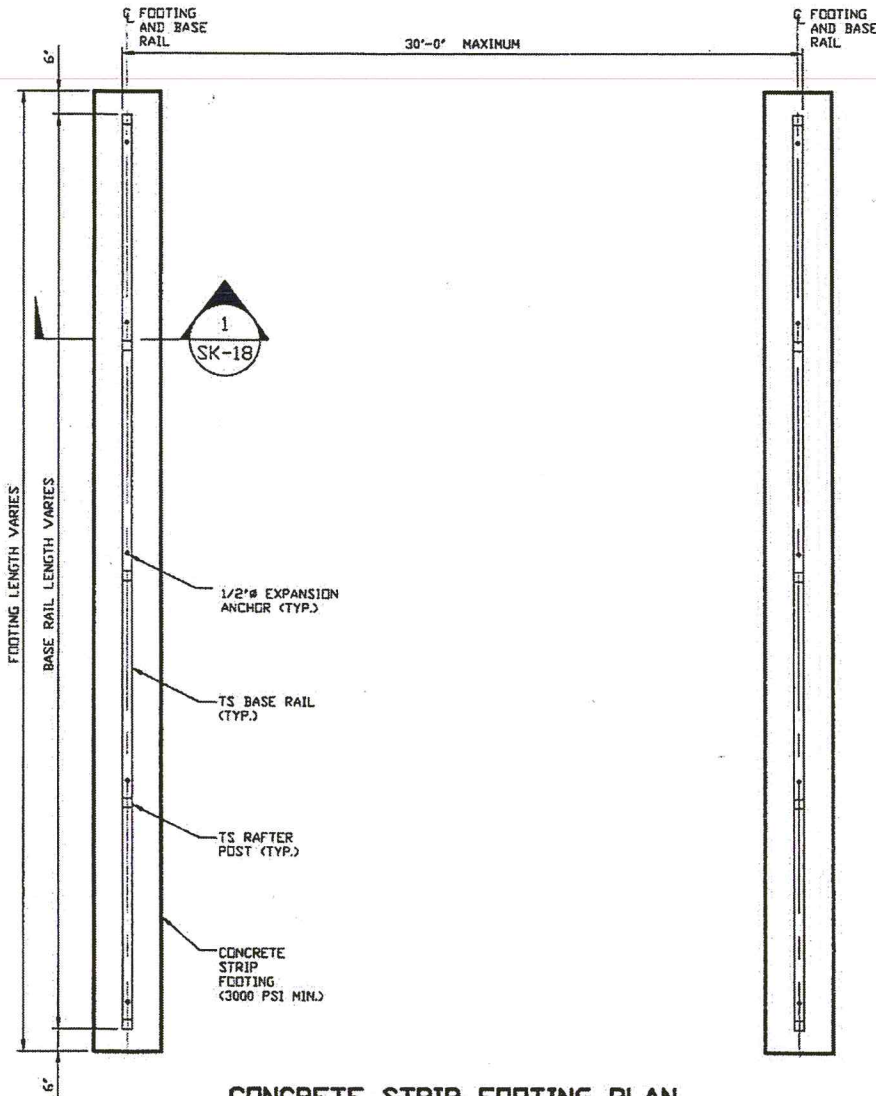
REV: 7

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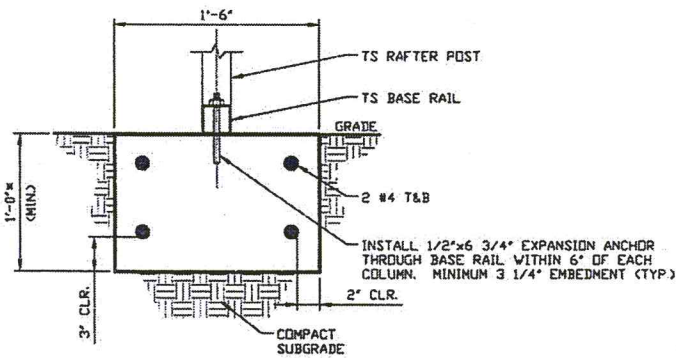




# OPTIONAL CONCRETE STRIP FOOTING

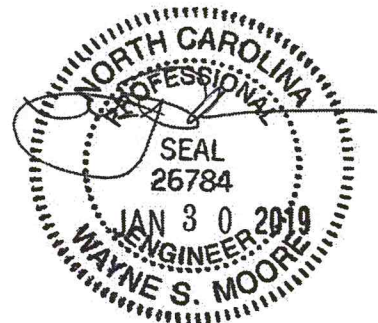


**CONCRETE STRIP FOOTING PLAN**  
SCALE: NTS



**SECTION 1 SK-18**  
SCALE: NTS

\* COORDINATE WITH LOCAL CODES/ORD.



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**DRAWN BY: AT**

**CHECKED BY: PDH**

**PROJECT MGR: VSM**

**CLIENT: SBST**

STEEL BUILDINGS AND STRUCTURES, INC.  
P.O. BOX 1287,  
MOUNT AIRY, NC 27030  
30'-0" x 20'-0" ENCLOSED STRUCTURE

**DATE: 12-14-18**

**SHT. 18**

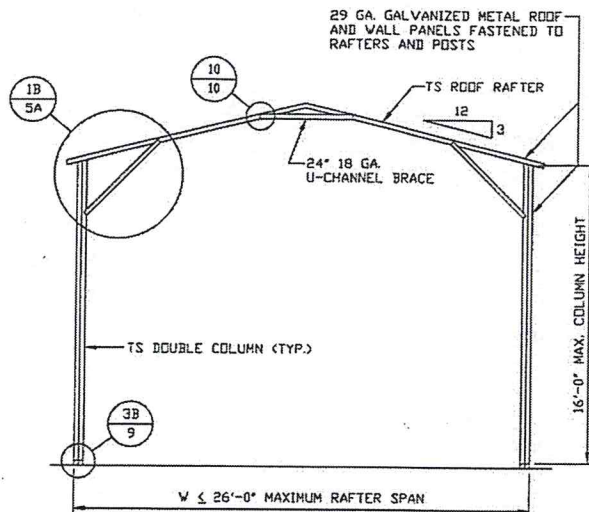
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**DWG. NO: SK-3**

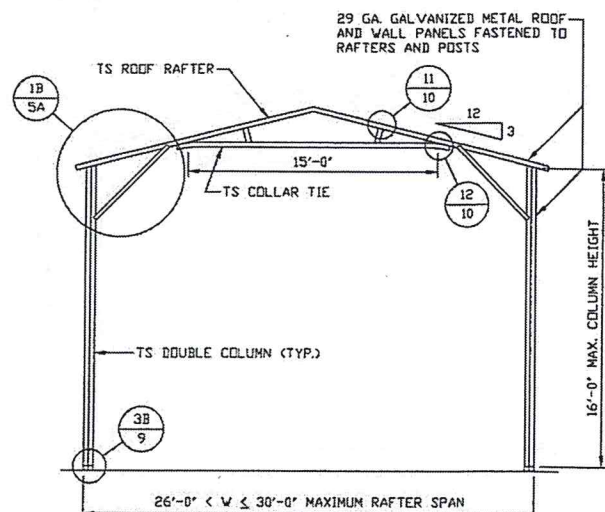
**JOB NO: 180685/182905**

**REV: 7**

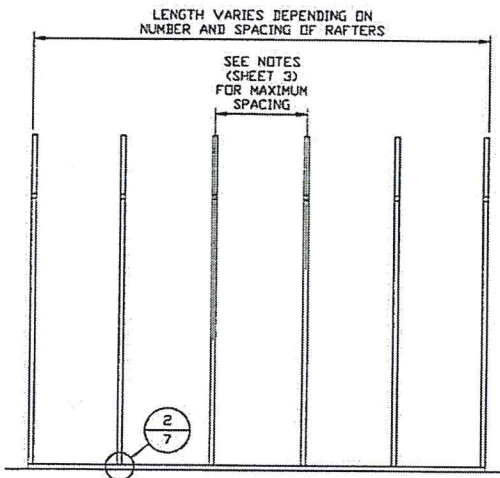
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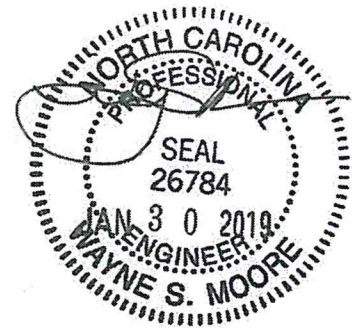
**TYPICAL RAFTER/COLUMN FRAME SECTION**  
SCALE: NTS



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



**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**  
SCALE: NTS



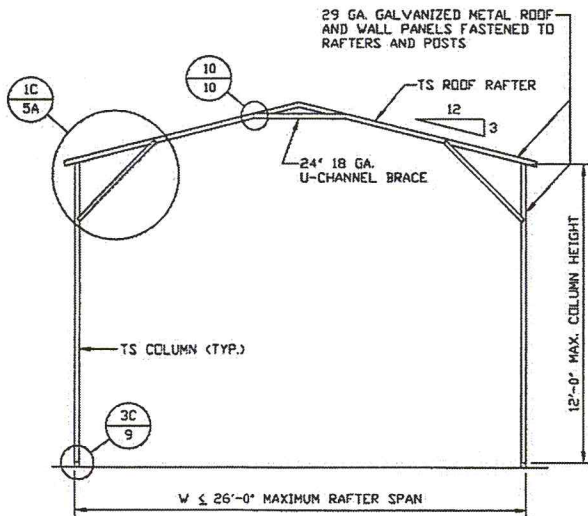
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**CHECKED BY: PDH**

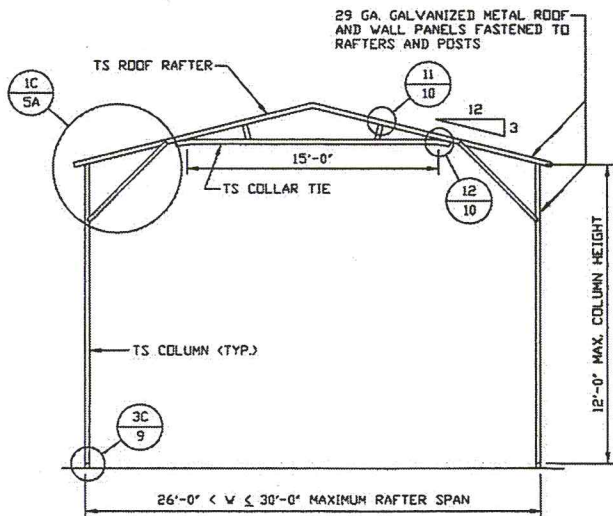
**STEEL BUILDINGS AND STRUCTURES, INC.**  
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30'-0" x 20'-0" ENCLOSED STRUCTURE

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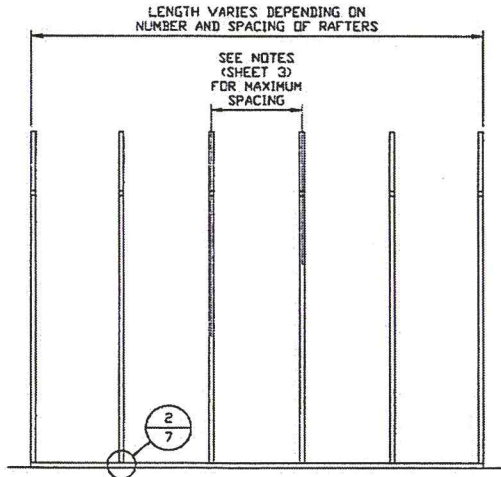
<b>PROJECT MGR: VSH</b>	<b>DATE: 12-14-18</b>	<b>SCALE: NTS</b>	<b>JOB NO: 180685/182908</b>
<b>CLIENT: SBT</b>	<b>SHT. 4A</b>	<b>DWG. NO SK-3</b>	<b>REV: 7</b>



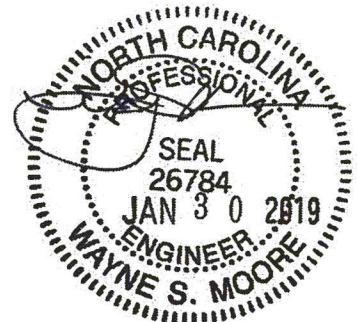
**TYPICAL RAFTER/COLUMN FRAME SECTION**  
SCALE: NTS



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



**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**  
SCALE: NTS



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CHECKED BY: PDH

PROJECT MGR: VSH

CLIENT: SBSI

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30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 12-14-18

SCALE: NTS

JOB NO: 18068/  
181563/182905

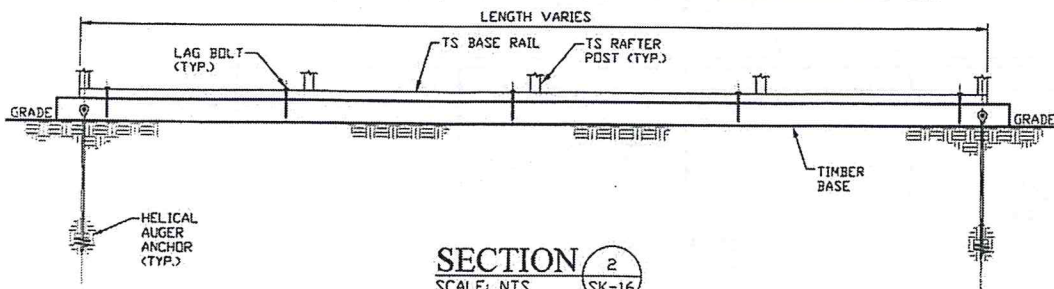
SHT. 4B

DWG. NO: SK-3

REV: 7

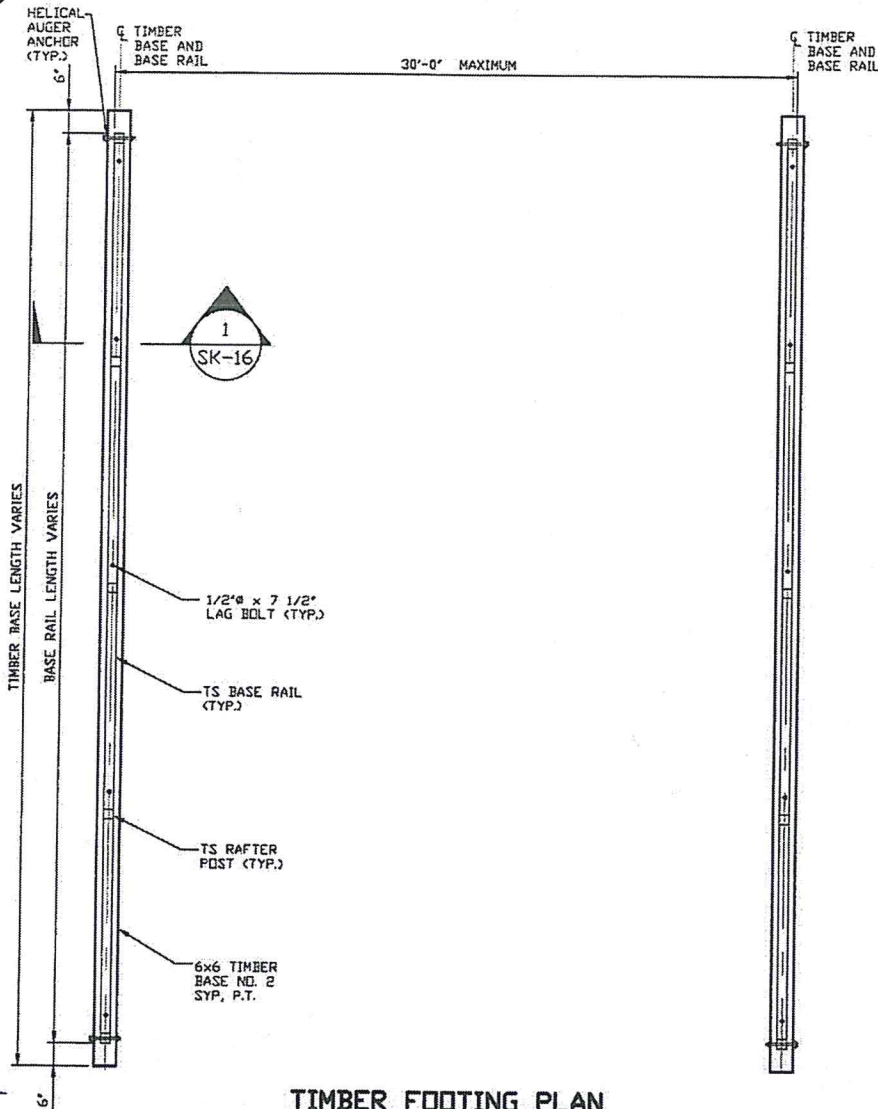
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# OPTIONAL BASE RAIL ON TIMBER BEAM



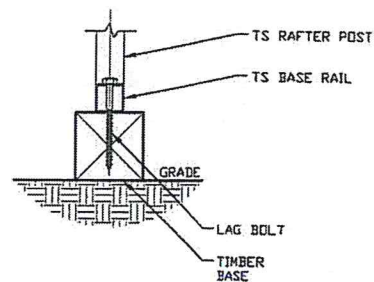
**SECTION 2**  
SCALE: NTS  
SK-16

2  
SK-16

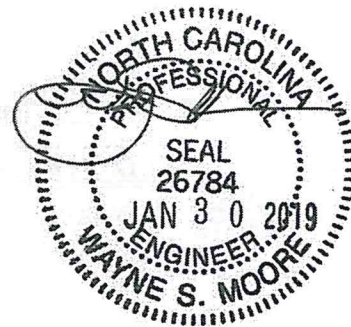


**TIMBER FOOTING PLAN**  
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	MAXIMUM SPACING
VARIES	10'-0" (EVERY OTHER POST)



**SECTION 1**  
SCALE: NTS  
SK-16



**MOORE AND ASSOCIATES  
ENGINEERING AND CONSULTING, INC.**

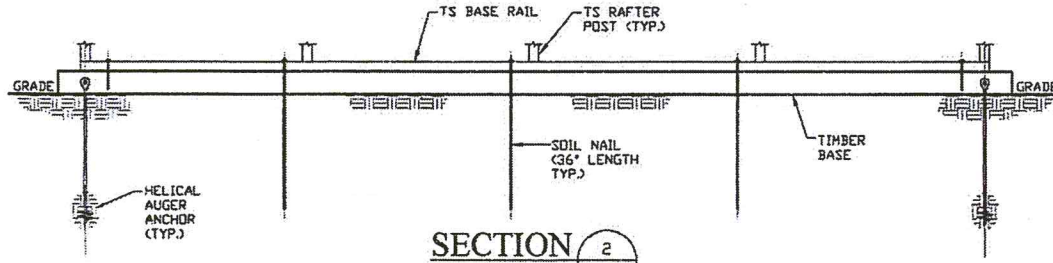
**DRAWN BY:** AT  
**CHECKED BY:** PDH  
**PROJECT MGR:** VSH  
**CLIENT:** SBST

STEEL BUILDINGS AND STRUCTURES, INC.  
P.O. BOX 1287,  
MOUNT AIRY, NC 27030  
30'-0" x 20'-0" ENCLOSED STRUCTURE

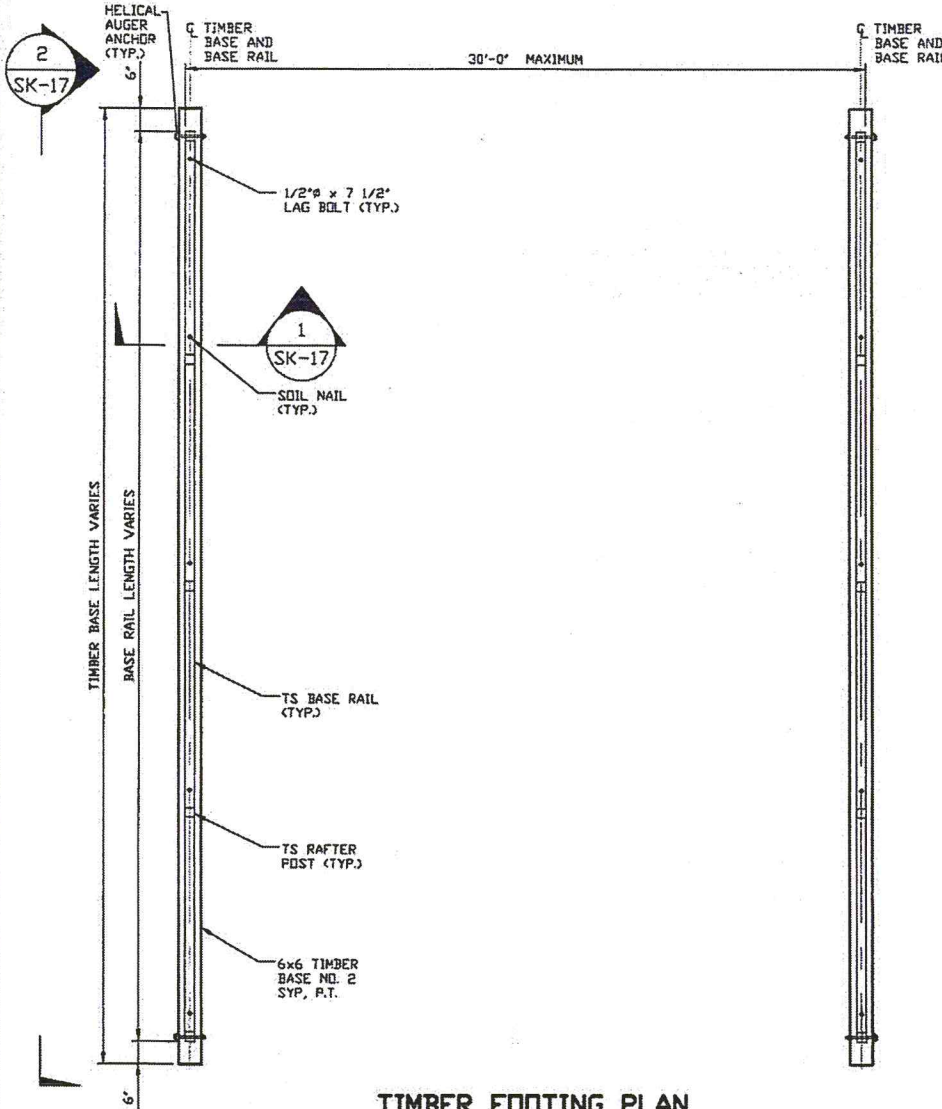
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**DATE:** 12-14-16    **SCALE:** NTS    **JOB NO:** 160663/162905  
**SHT.** 16    **DWG. NO:** SK-3    **REV:** 7

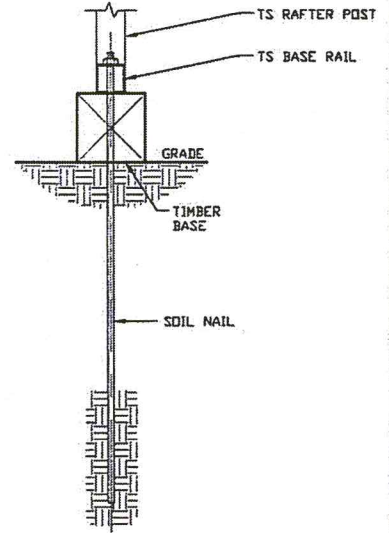
# OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL



**SECTION 2**  
SCALE: NTS

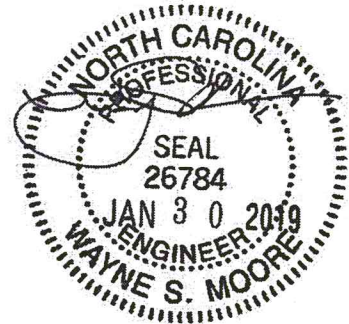


**TIMBER FOOTING PLAN**  
SCALE: NTS



**SECTION 1**  
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	MAXIMUM SPACING
VARIES	10'-0" (EVERY OTHER POST)



**MOORE AND ASSOCIATES  
ENGINEERING AND CONSULTING, INC.**

**DRAWN BY: AT**

**CHECKED BY: PDH**

**PROJECT MGR: WSM**

**CLIENT: SBSI**

STEEL BUILDINGS AND STRUCTURES, INC.  
P.O. BOX 1287,  
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30'-0" x 20'-0" ENCLOSED STRUCTURE

**DATE: 12-14-18**

**SCALE: NTS**

**JOB NO: 180685/182908**

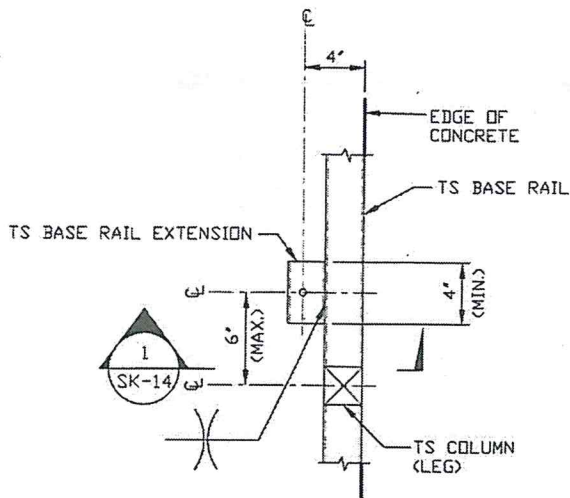
**SHT. 17**

**DWG. NO: SK-3**

**REV. 7**

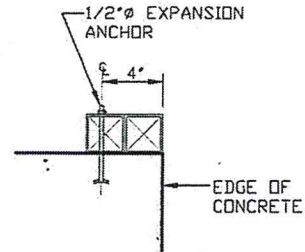
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## ADDITIONAL BASE RAIL ANCHORAGE OPTION

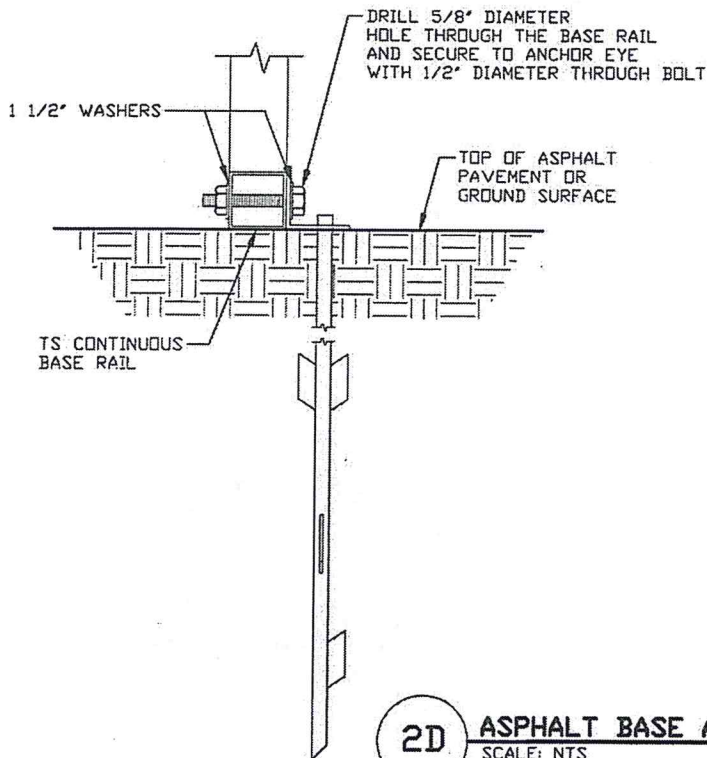


**TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE**

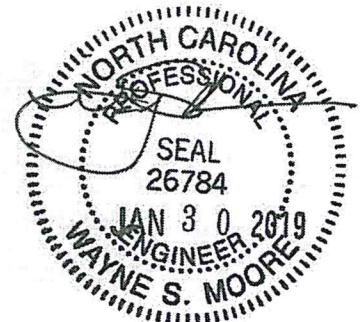
SCALE: NTS



**SECTION 1**  
SCALE: NTS



**2D ASPHALT BASE ANCHORAGE**  
SCALE: NTS



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**CHECKED BY: PDH**

**PROJECT MGR: VSM**

**CLIENT: SBSI**

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P.O. BOX 1287,  
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30'-0" x 20'-0" ENCLOSED STRUCTURE

**DATE: 12-14-18**

**SCALE: NTS**

**JOB NO: 180583/18290S**

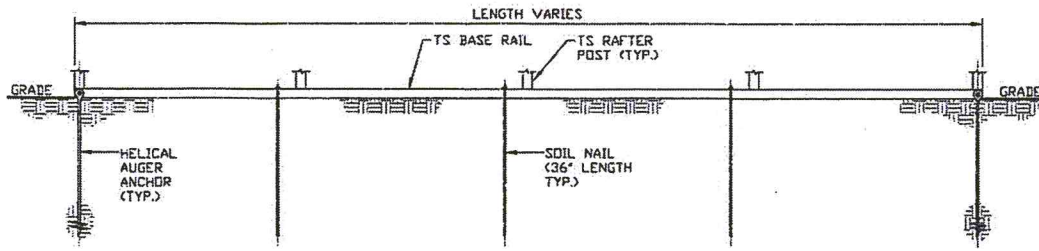
**SHT. 14**

**DWG. NO: SK-3**

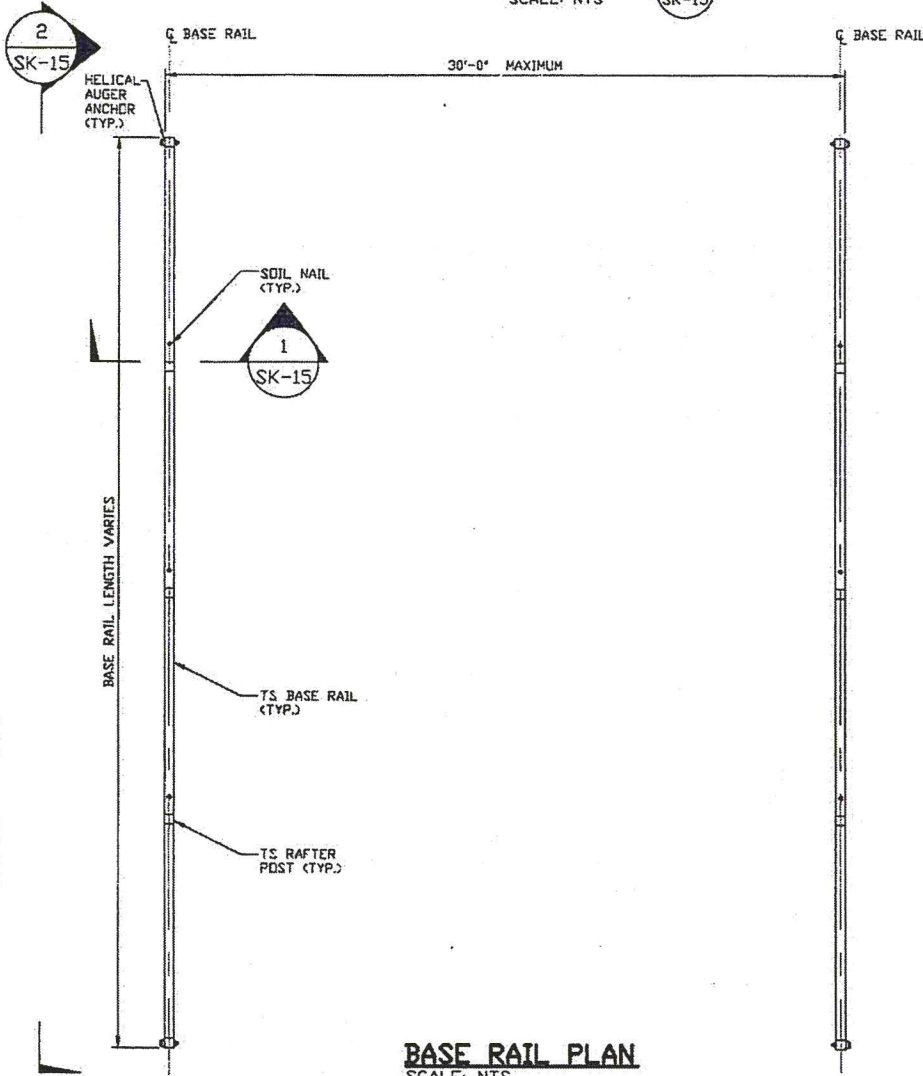
**REV: 7**

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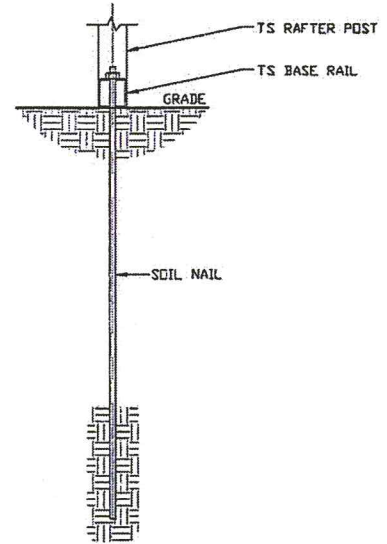
# OPTIONAL BASE RAIL ON GRADE APPLICATION



**SECTION 2**  
SCALE: NTS

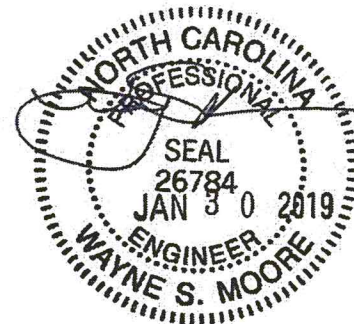


**BASE RAIL PLAN**  
SCALE: NTS



**SECTION 1**  
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	MAXIMUM SPACING
VARIES	10'-0" (EVERY OTHER POST)



**MOORE AND ASSOCIATES  
ENGINEERING AND CONSULTING, INC.**

**DRAWN BY:** AT

**CHECKED BY:** PDH

**PROJECT MGR:** WSM

**CLIENT:** SBSI

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P.O. BOX 1287,  
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30'-0" x 20'-0" ENCLOSED STRUCTURE

**DATE:** 12-14-18

**SHT.** 15

**SCALE:** NTS

**DWG. NO:** SK-3

**JOB NO:** 180623/181565/182905

**REV:** 7

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