



## **STRUCTURAL DESIGN** **ENCLOSED BUILDING**

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

**14 February 2020  
Revision 8**

**M&A Project No. 16062S/16155S/16207S/17155S/17200S/18068S/18156S/18290S/20019S**

**Prepared for:**

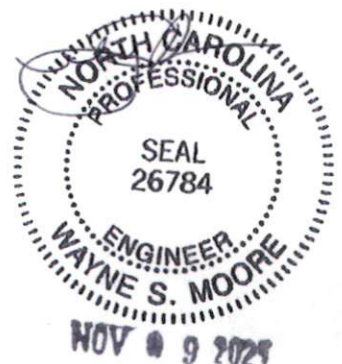
**Steel Buildings and Structures, Inc.  
P.O. Box 1287  
Mt. Airy, NC 27030**

**Prepared by:**

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

**1009 East Avenue  
North Augusta, SC 29841**

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






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	CHECKED BY: PDH				
	PROJECT MGR: WSM	DATE: 2-14-20	SCALE: NTS	18156S/18290S/20019S	
	CLIENT: SBSI	SHT. 1	DWG. NO: SK-3	REV: 8	




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	CLIENT: SBSI	SHT. 1A	DWG. NO: SK-3	REV: 8



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**SHT. 2**

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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, 2015 IBC AND 2018 IBC.
3. DESIGN LOADS ARE AS FOLLOWS:
  - A) DEAD LOAD = 1.5 PSF
  - B) LIVE LOAD = 12 PSF
  - C) GROUND SNOW LOAD = 30 PSF ( $\leq 26'-0"$ ), 35 PSF ( $26'-0" < W \leq 30'-0"$ )  
 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" x 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:  
 SOIL SITE CLASS = D  
 RISK CATEGORY I  
 $R = 3.25$                        $I_E = 1.0$   
 $S_{DS} = 2.039 g$                $V = C_s W$   
 $S_{DI} = 1.258 g$
15. WINDOW AND DOOR DESIGN PRESSURES ARE APPLICABLE TO THE STATE OF FLORIDA ONLY.



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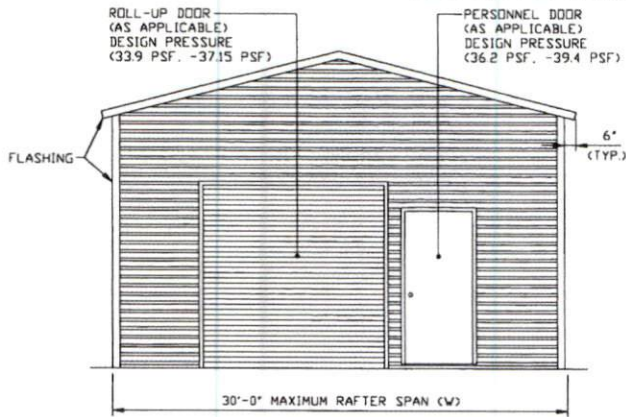
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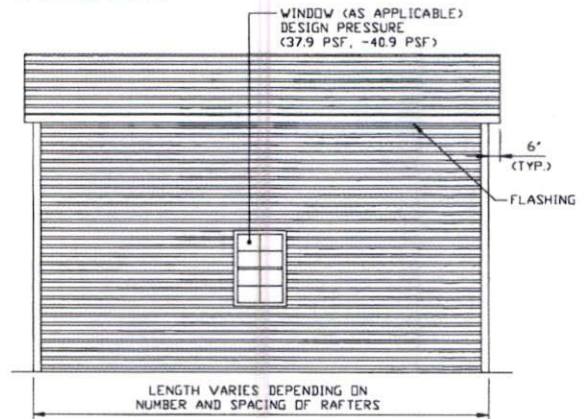
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## BOX EAVE FRAME RAFTER STRUCTURE

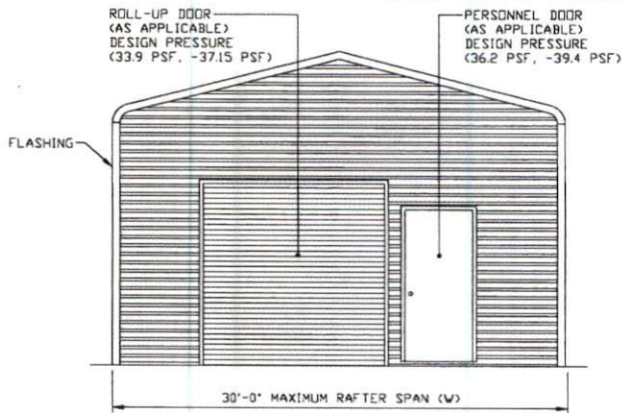


**TYPICAL END ELEVATION**  
SCALE: NTS

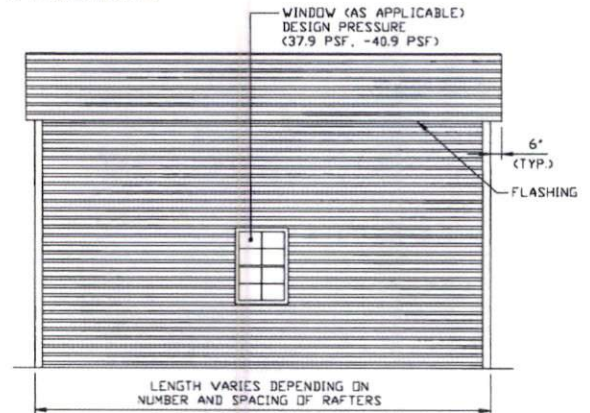


**TYPICAL SIDE ELEVATION**  
SCALE: NTS

## BOW EAVE FRAME RAFTER STRUCTURE



**TYPICAL END ELEVATION**  
SCALE: NTS



**TYPICAL SIDE ELEVATION**  
SCALE: NTS



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SHT. 4

SCALE: NTS

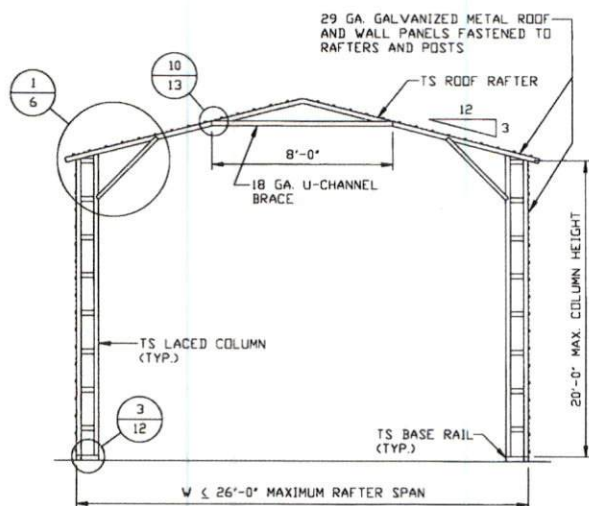
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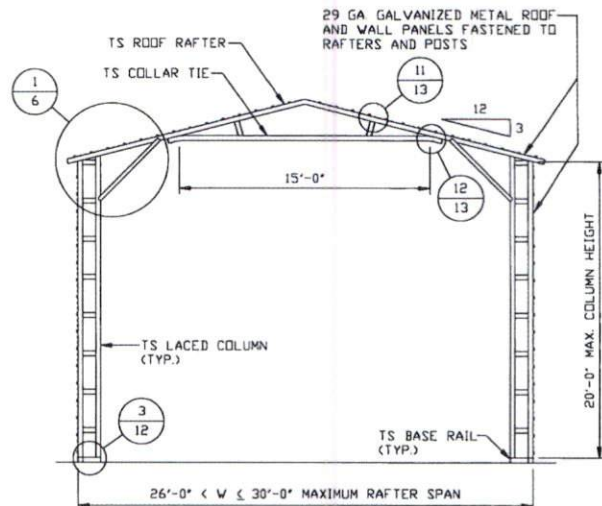
18156S/18290S/20019S

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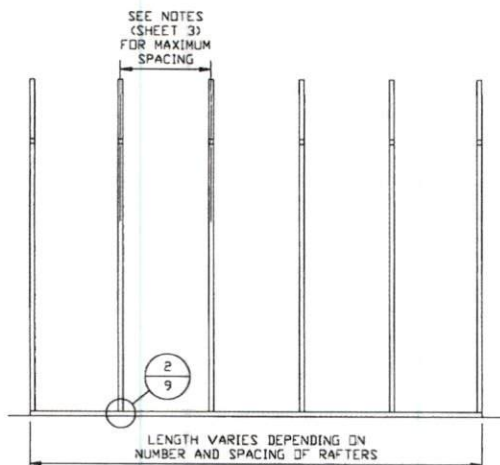
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**TYPICAL RAFTER/COLUMN FRAME SECTION**  
SCALE: NTS



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



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



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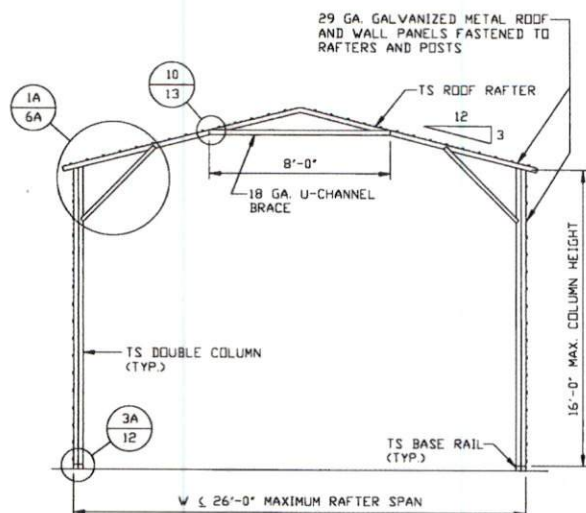
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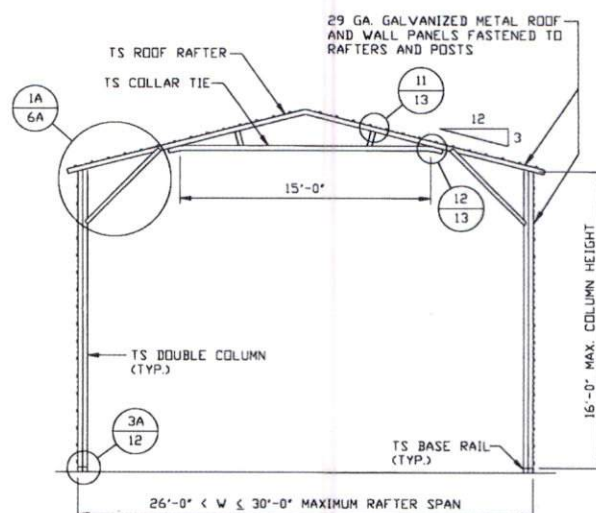
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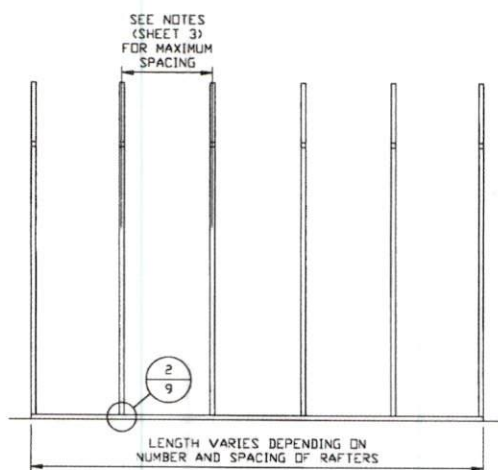




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SHT. 5A

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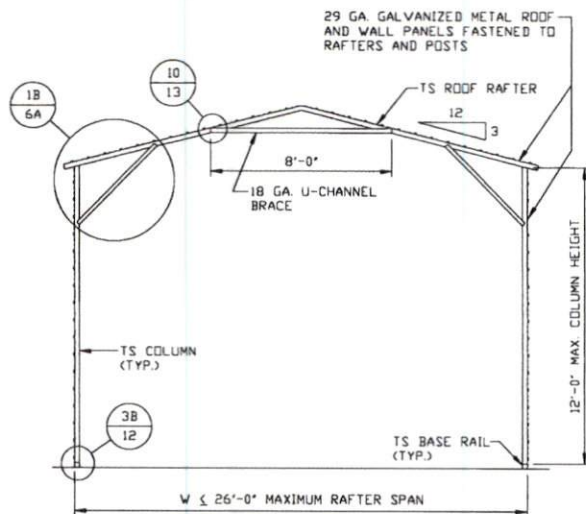
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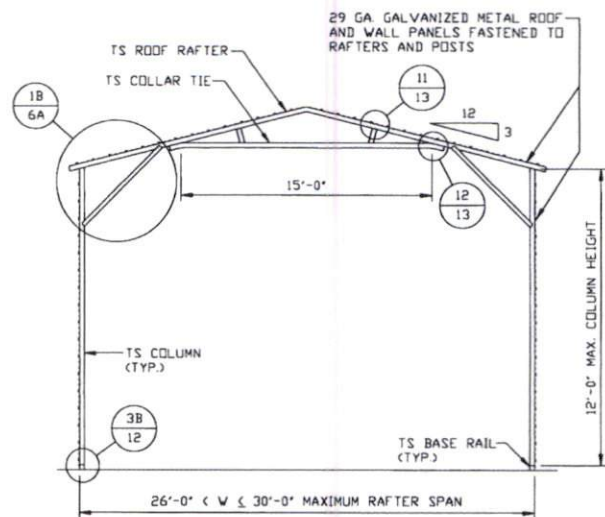
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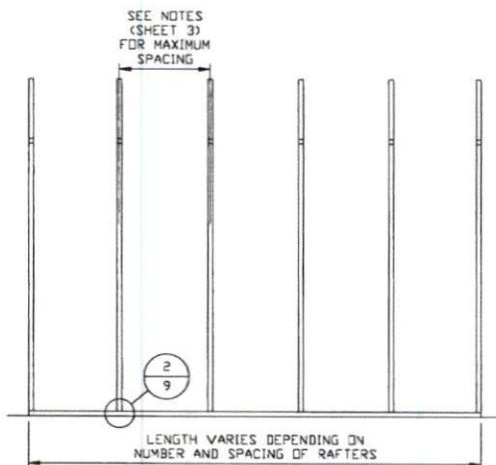




**TYPICAL RAFTER/COLUMN FRAME SECTION**  
SCALE: NTS



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



**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**  
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SHT. 5B

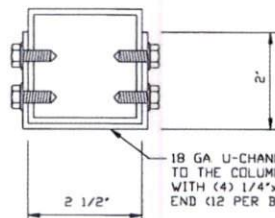
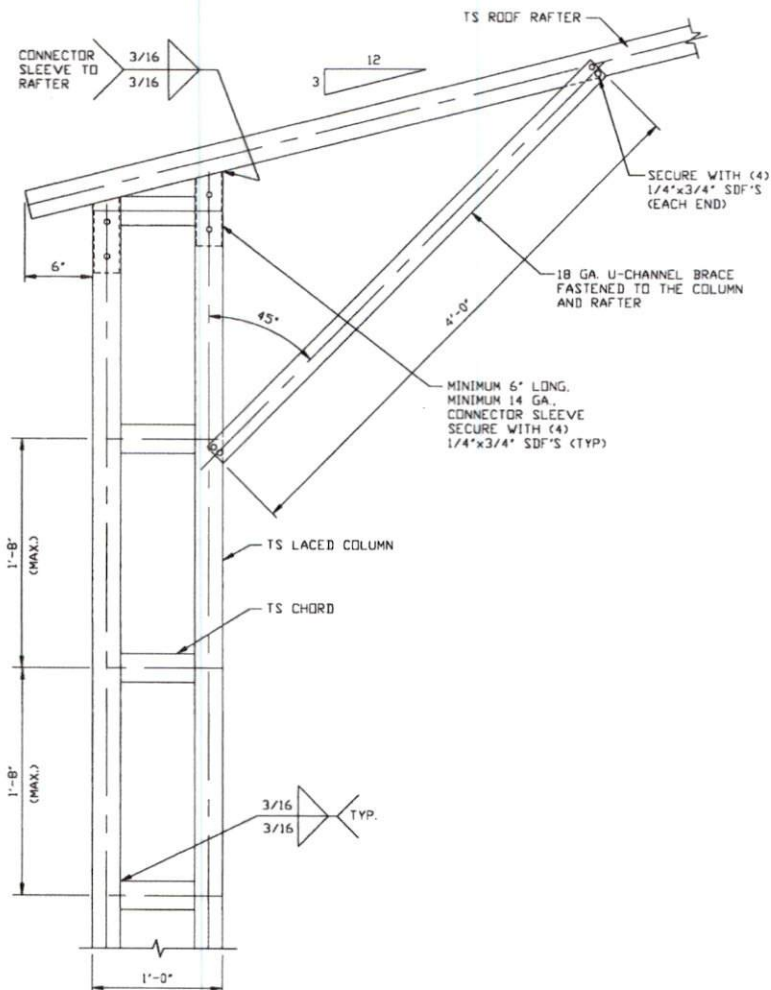
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### BRACE SECTION

SCALE: NTS

1

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

SCALE: NTS



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SHT. 6

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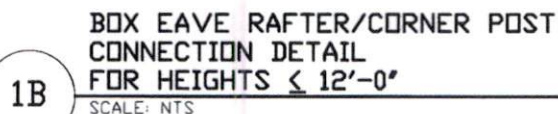
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REV: 8

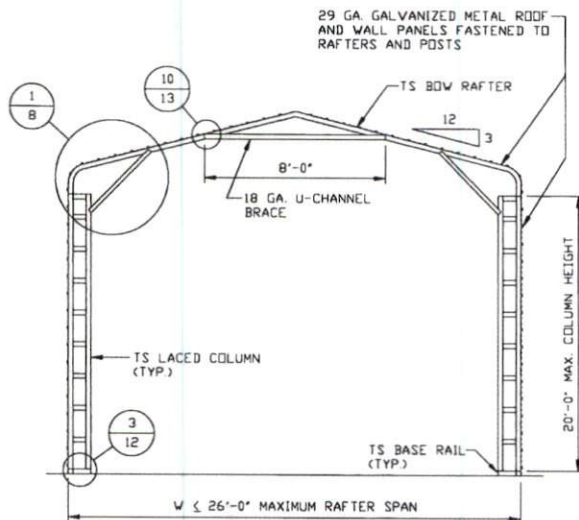
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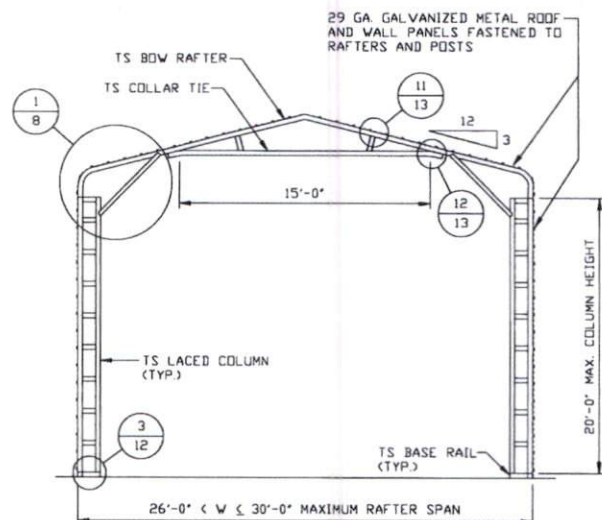
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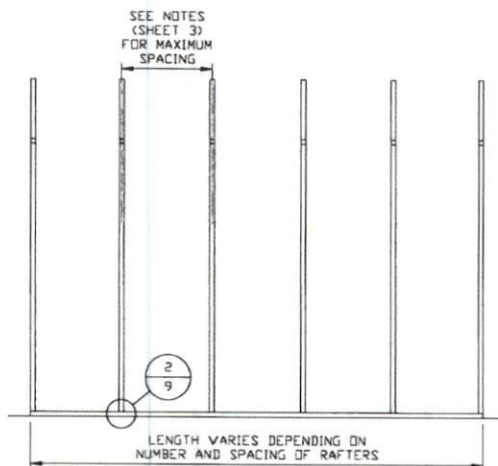




**TYPICAL RAFTER/COLUMN FRAME SECTION**  
SCALE: NTS



**TYPICAL RAFTER/COLUMN FRAME SECTION**  
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**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**  
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SHT. 7

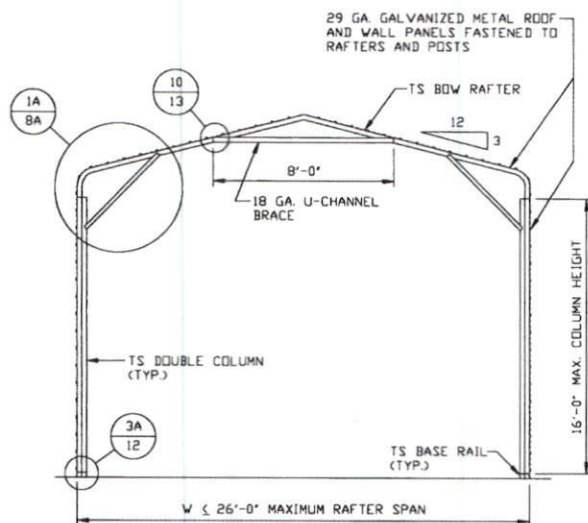
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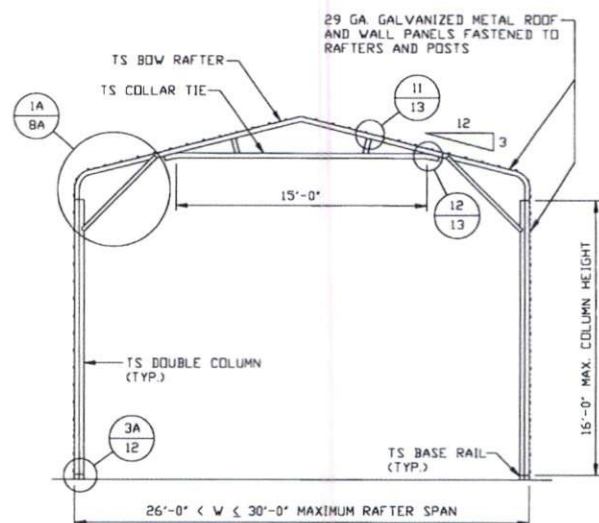
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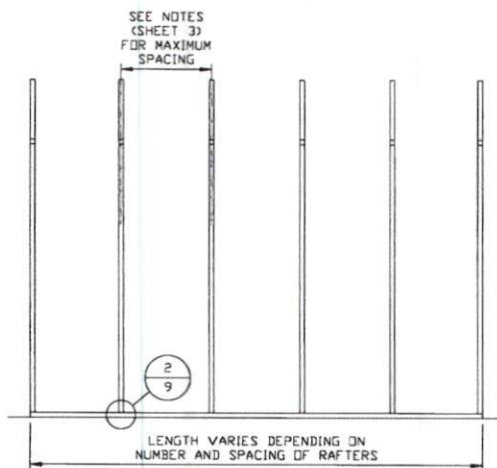
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SHT. 7A

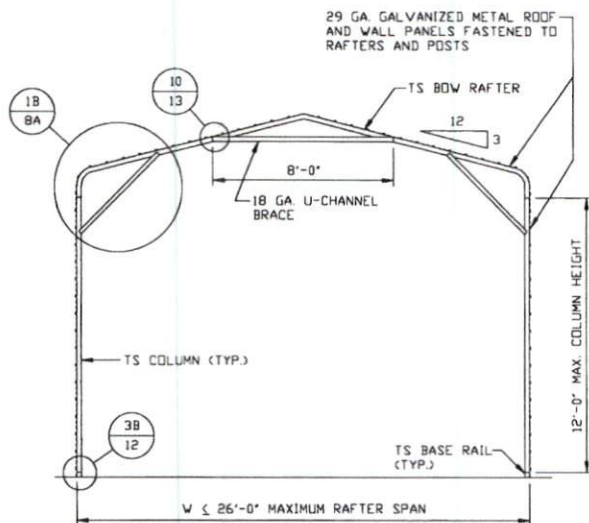
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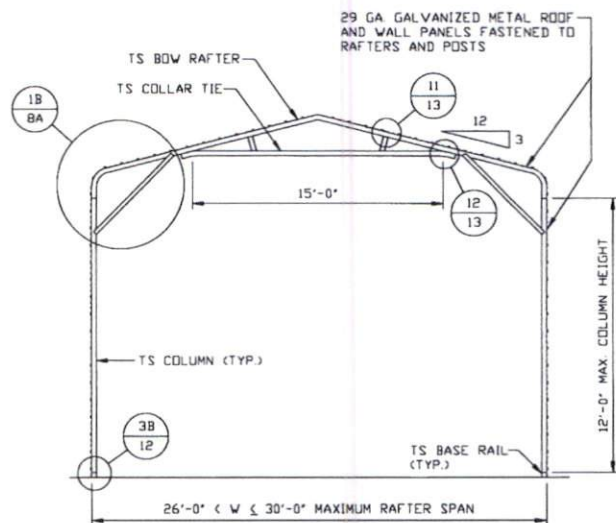
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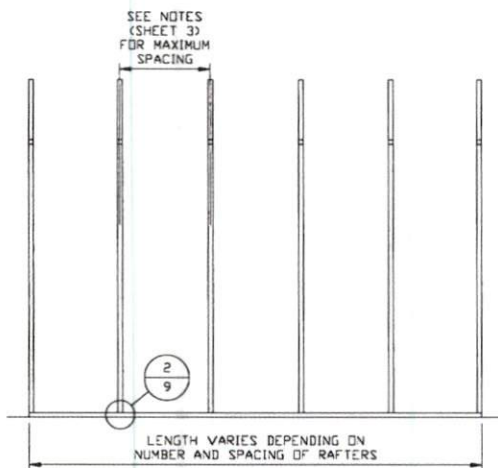
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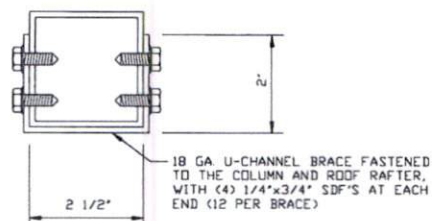
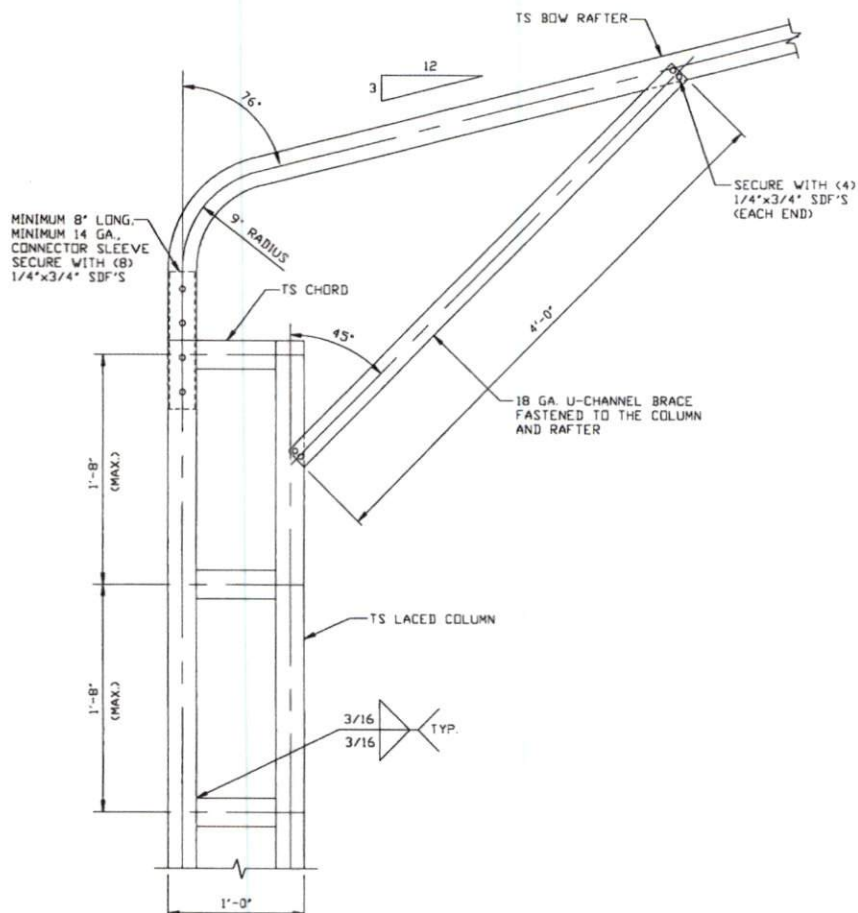
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### BRACE SECTION

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

SCALE: NTS

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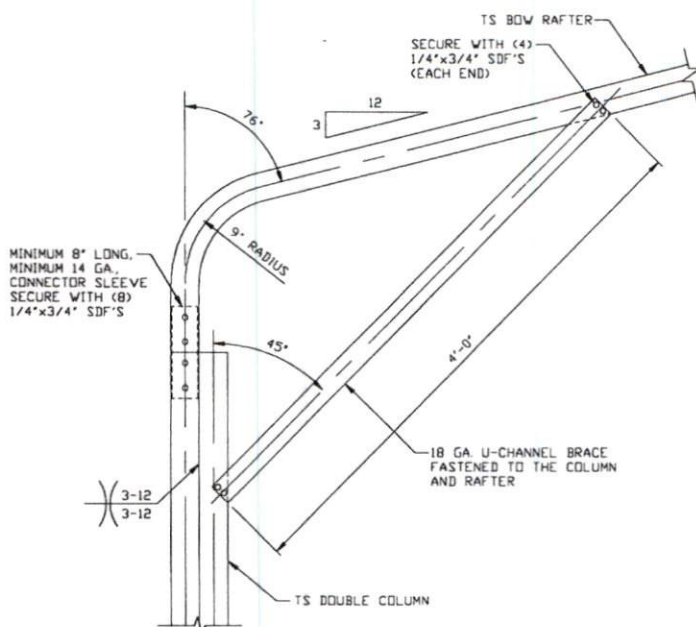
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REV: 8

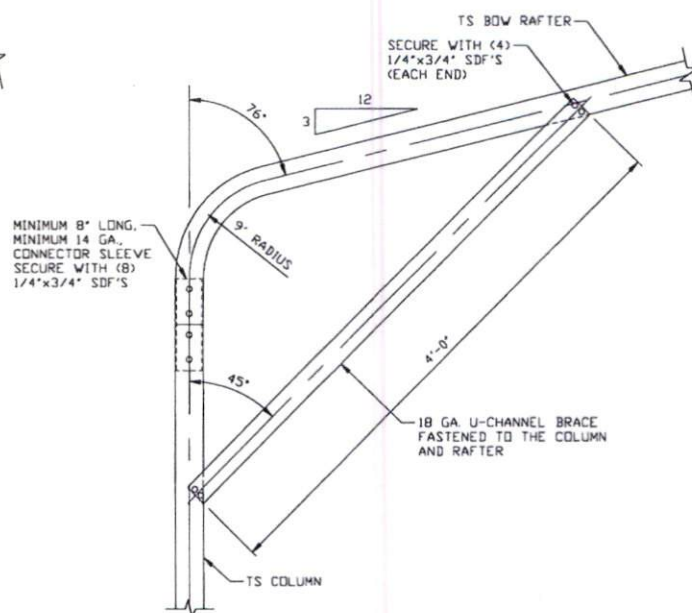
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**BOX EAVE RAFTER/CORNER POST  
CONNECTION DETAIL  
FOR HEIGHTS 12'-0" < TO ≤ 16'-0"**

1A

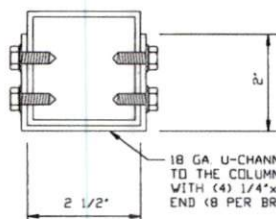
SCALE: NTS



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

1B

SCALE: NTS



**BRACE SECTION**

SCALE: NTS



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DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSH

CLIENT: SBSI

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

DATE: 2-14-20

SHT. 8A

SCALE: NTS

DWG. NO: SK-3

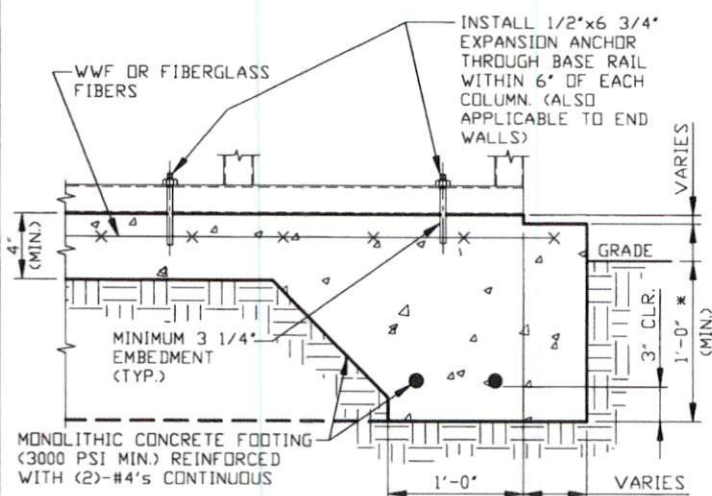
JOB NO: 18068S  
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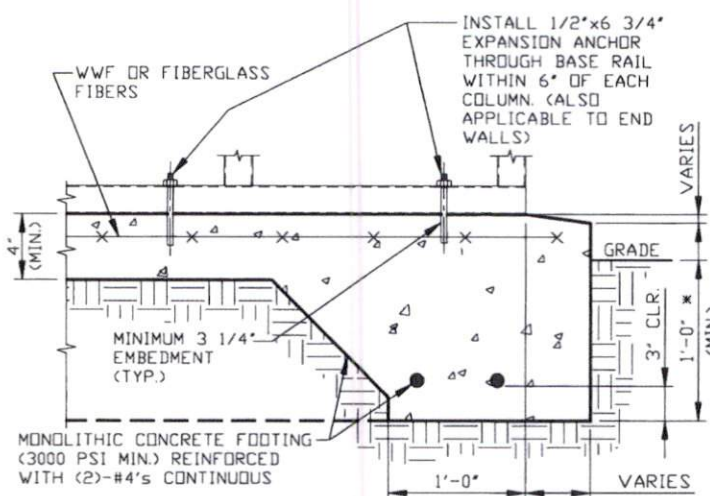


## BASE RAIL ANCHORAGE OPTIONS



### 2 CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS  
MINIMUM ANCHOR EDGE DISTANCE IS 4".  
\* COORDINATE WITH LOCAL CODES/ORD.



### 2A 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:

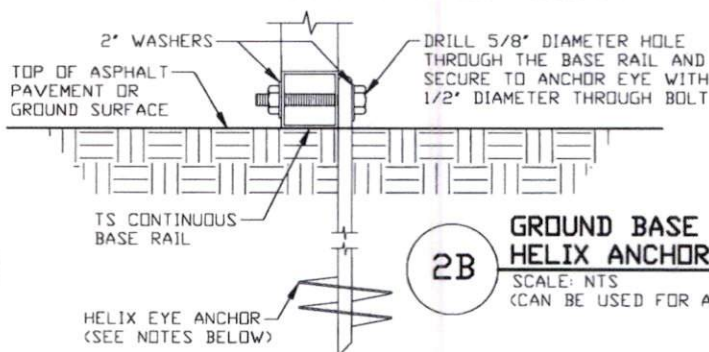
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

### 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.



### 2B GROUND BASE HELIX ANCHORAGE

SCALE: NTS  
(CAN BE USED FOR ASPHALT)

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CHECKED BY: PDH

PROJECT MGR: WSH

CLIENT: SBSI

STEEL BUILDINGS AND STRUCTURES, INC.

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

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

DATE: 2-14-20

SHT. 9

SCALE: NTS

DWG. NO: SK-3

JOB NO: 18068S  
18156S/18290S/20019S

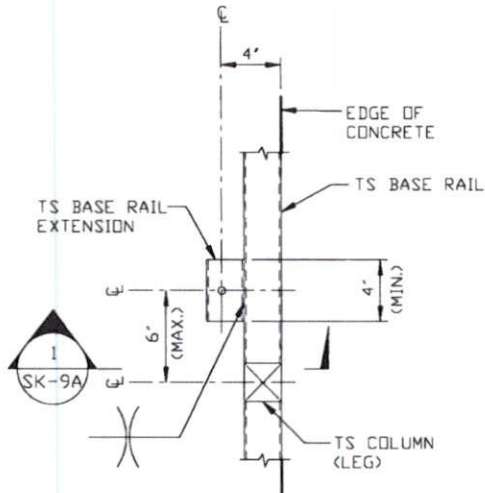
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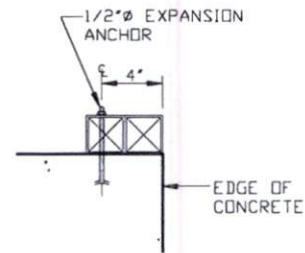


## ADDITIONAL BASE RAIL ANCHORAGE OPTION

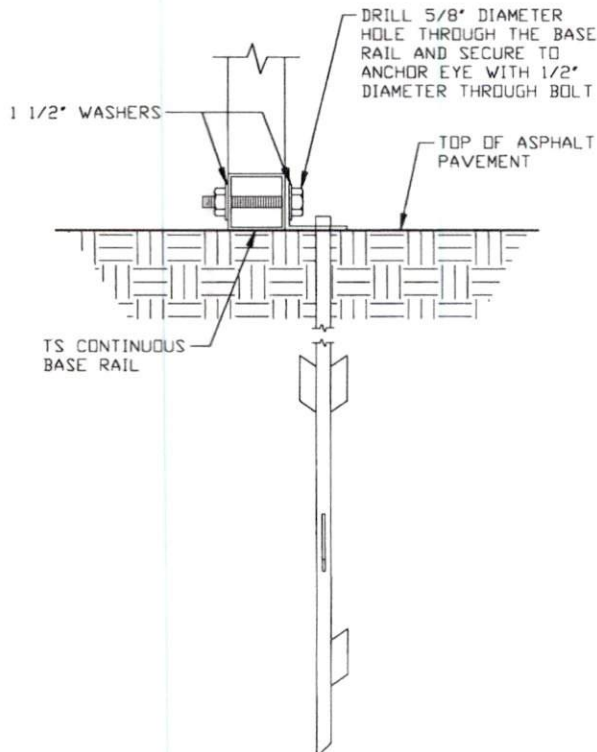


**TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE**

SCALE: NTS



**SECTION 1**  
SCALE: NTS  
**SK-9A**



**2C**

**ASPHALT BASE ANCHORAGE**

SCALE: NTS



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**CLIENT: SBSI**

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

**DATE: 2-14-20**

**SHT. 9A**

**SCALE: NTS**

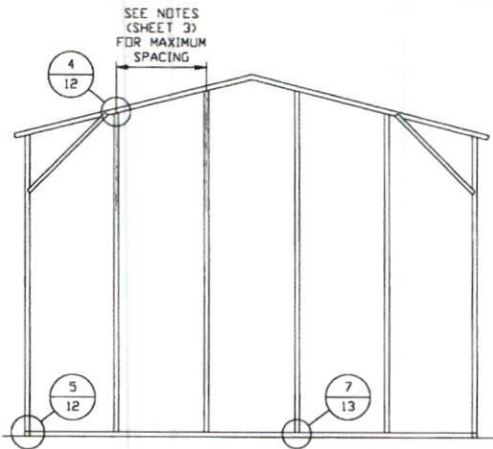
**DWG. NO: SK-3**

**JOB NO: 18068S  
18156S/18290S/20019S**

**REV: 8**

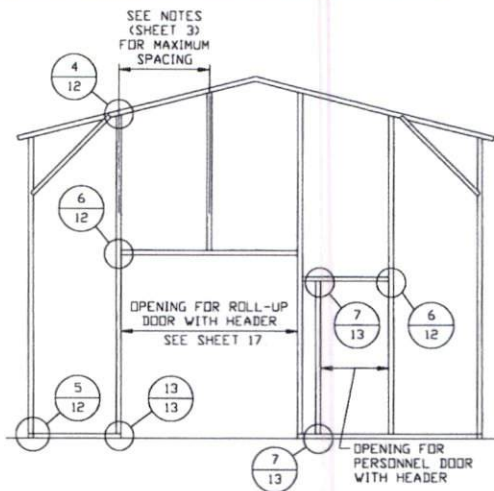
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## BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



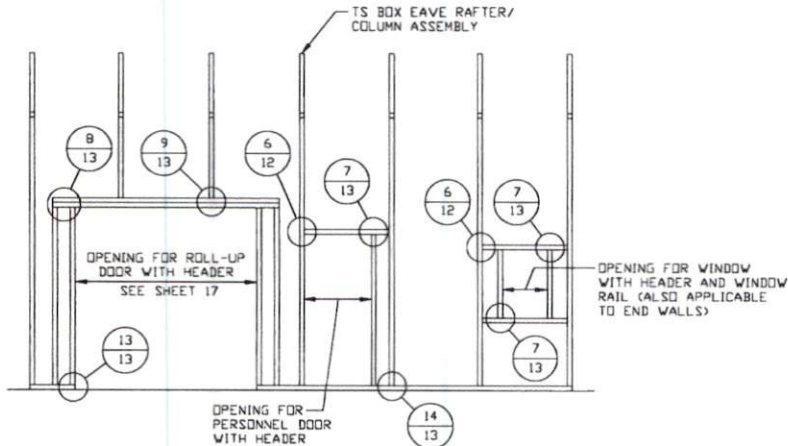
**TYPICAL BOX EAVE RAFTER  
END WALL FRAMING SECTION**

SCALE: NTS



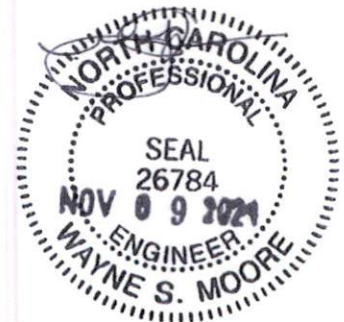
**TYPICAL BOX EAVE RAFTER END  
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



**TYPICAL BOX EAVE RAFTER  
SIDE WALL OPENINGS FRAMING SECTION**

SCALE: NTS



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P.O. BOX 1287,  
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30'-0"x20'-0" ENCLOSED STRUCTURE

**DATE: 2-14-20**

**SHT. 10**

**SCALE: NTS**

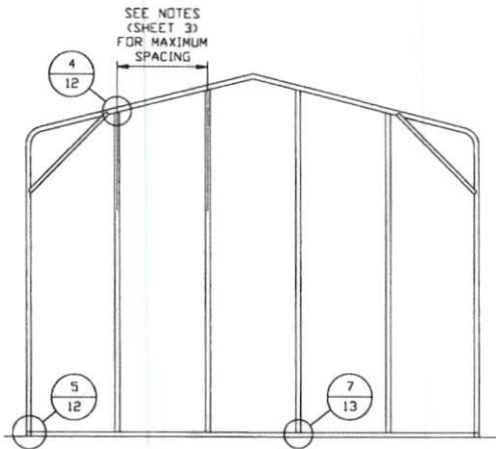
**DWG. NO: SK-3**

**JOB NO: 18068S  
18156S/18290S/20019S**

**REV: 8**

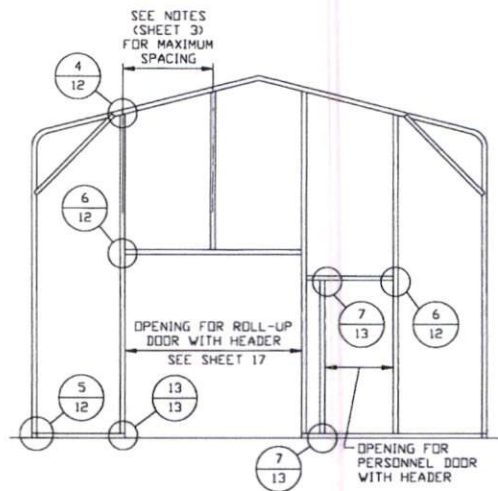
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## BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



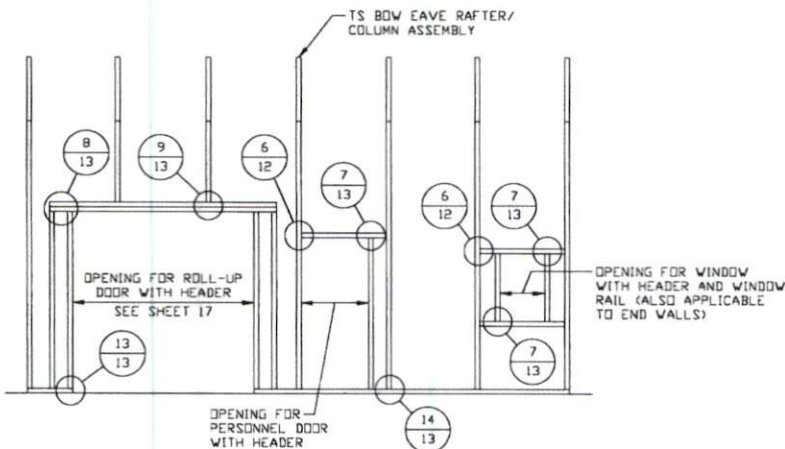
**TYPICAL BOX EAVE RAFTER  
END WALL FRAMING SECTION**

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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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: SBSI

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

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SHT. 11

SCALE: NTS

DWG. NO: SK-3

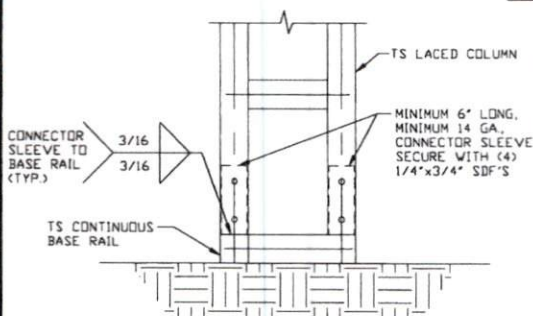
JOB NO: 18068S  
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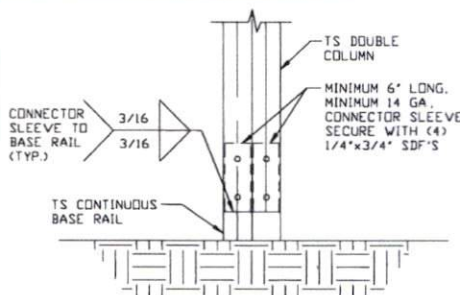
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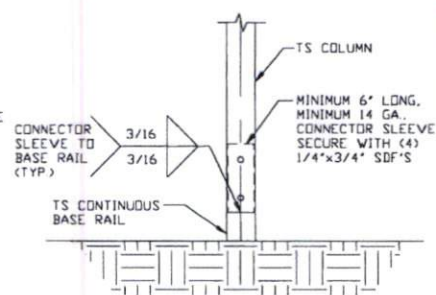
## CONNECTION DETAILS



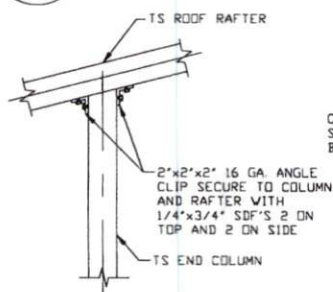
**3**  
**POST/BASE RAIL  
CONNECTION DETAIL**  
SCALE: NTS



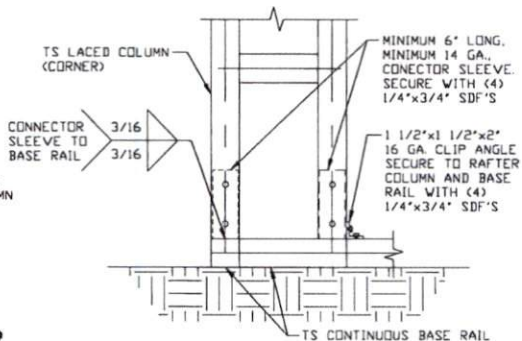
**3A**  
**POST/BASE RAIL  
CONNECTION DETAIL**  
SCALE: NTS



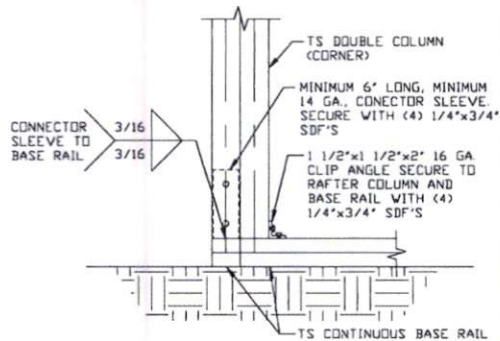
**3B**  
**POST/BASE RAIL  
CONNECTION DETAIL**  
SCALE: NTS



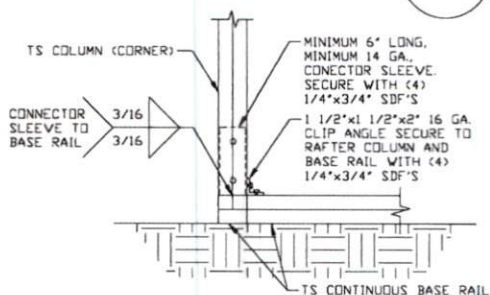
**4**  
**END COLUMN/RAFTER  
CONNECTION DETAIL**  
SCALE: NTS



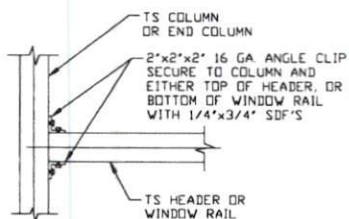
**5**  
**END COLUMN/BASE RAIL  
CONNECTION DETAIL**  
SCALE: NTS



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



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



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



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**SHT. 12**

**SCALE: NTS**

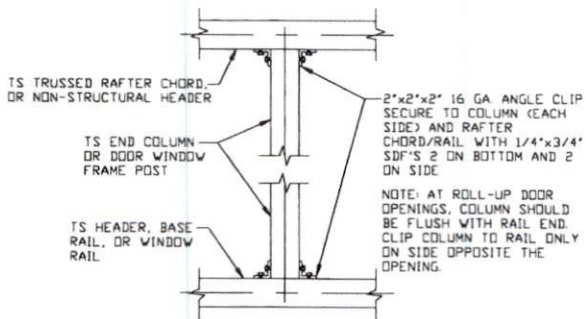
**DWG. NO: SK-3**

**JOB NO: 18068S  
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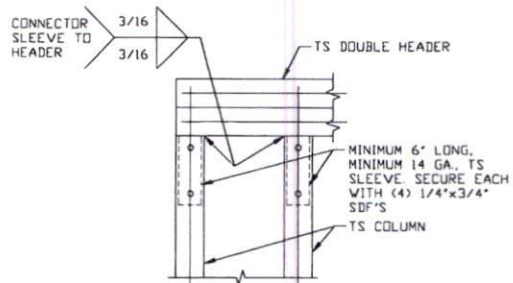
## CONNECTION DETAILS



7

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

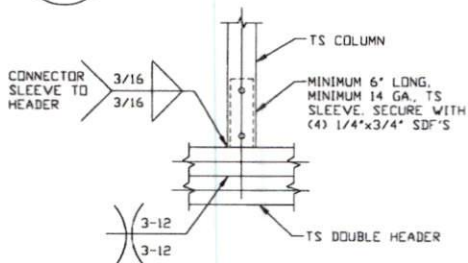
SCALE: NTS



8

**DOUBLE HEADER/COLUMN CONNECTION DETAIL**

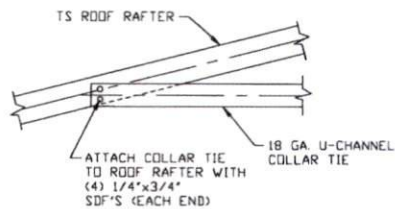
SCALE: NTS



9

**COLUMN/DOUBLE HEADER CONNECTION DETAIL**

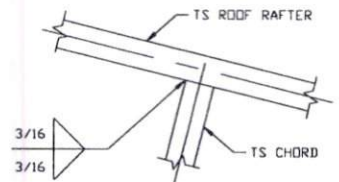
SCALE: NTS



10

**COLLAR TIE CONNECTION DETAIL**

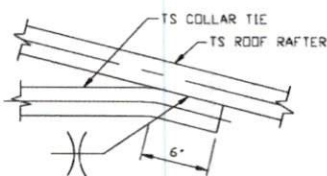
SCALE: NTS



11

**RAFTER TO CHORD CONNECTION DETAIL**

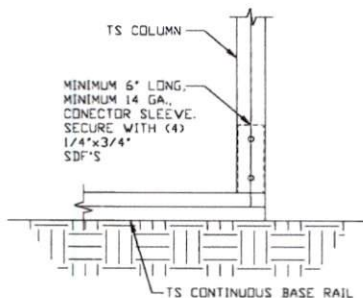
SCALE: NTS



12

**COLLAR TIE CONNECTION DETAIL**

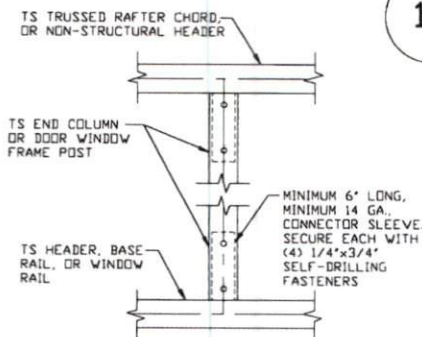
SCALE: NTS



13

**COLUMN/BASE RAIL CONNECTION DETAIL**

SCALE: NTS



14

**COLUMN TO HEADER OR 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: 2-14-20

SHT. 13

SCALE: NTS

DWG. NO: SK-3

JOB NO: 18068S

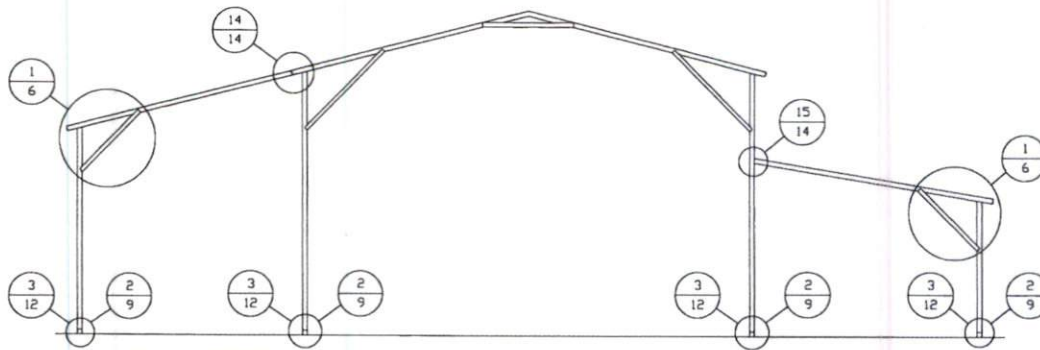
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## BOX EAVE RAFTER LEAN-TO OPTIONS



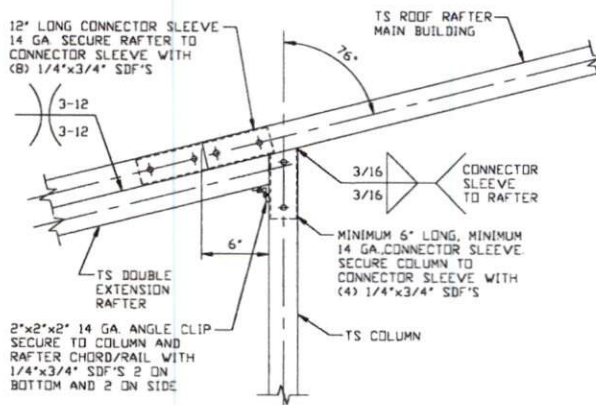
### TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

MAXIMUM WIDTH OF SINGLE MEMBER (RAFTER) ROOF EXTENSION LEAN-TO IS 12'-0".

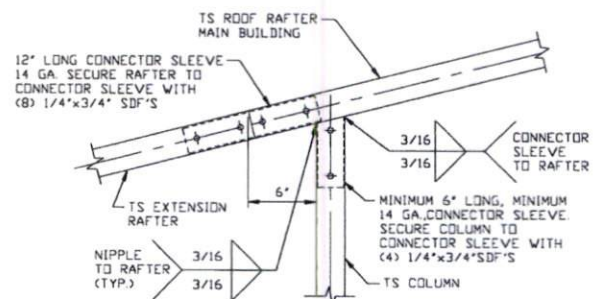
MAXIMUM WIDTH OF DOUBLE MEMBER RAFTER ROOF EXTENSION LEAN-TO IS 16'-0".

FOR SHARED COLUMN HEIGHTS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.



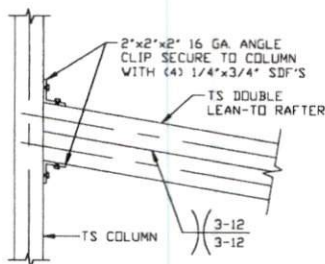
#### 14 SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS 12'-0' < TO < 16'-0'

SCALE: NTS



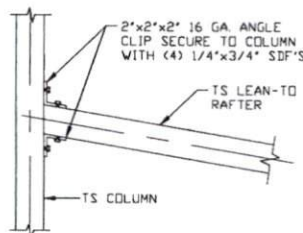
#### 14A SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS < 12'-0'

SCALE: NTS



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

SCALE: NTS



#### 15A LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS < 12'-0'

SCALE: NTS



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PROJECT MGR: WSM

CLIENT: SBSI

STEEL BUILDINGS AND STRUCTURES, INC.

P.O. BOX 1287,  
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30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 2-14-20

SHT. 14

SCALE: NTS

DWG. NO: SK-3

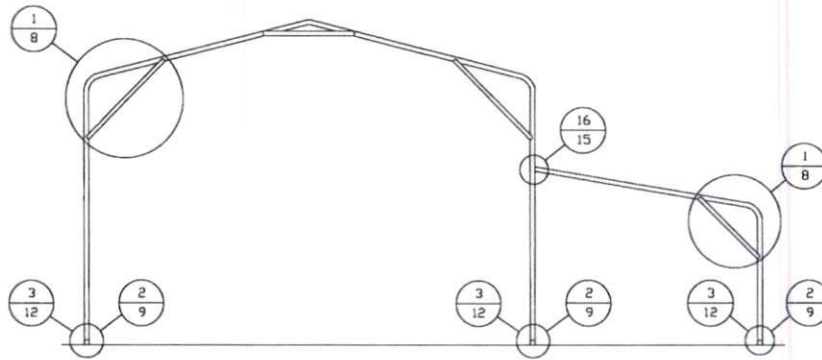
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## BOW EAVE RAFTER LEAN-TO OPTIONS



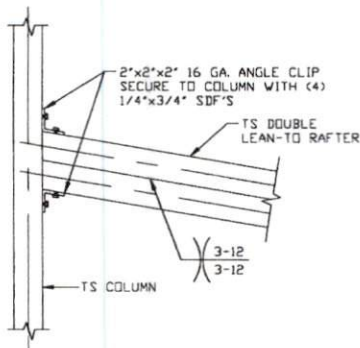
### TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS

MAXIMUM WIDTH OF SINGLE MEMBER (RAFTER) ROOF EXTENSION LEAN-TO IS 12'-0".

MAXIMUM WIDTH OF DOUBLE MEMBER RAFTER ROOF EXTENSION LEAN-TO IS 16'-0".

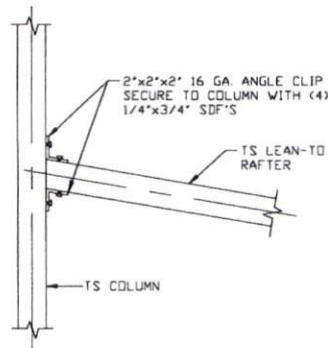
FOR SHARED COLUMN HEIGHTS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.



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

16

SCALE: NTS



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

16A

SCALE: NTS



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

DATE: 2-14-20

SHT. 15

SCALE: NTS

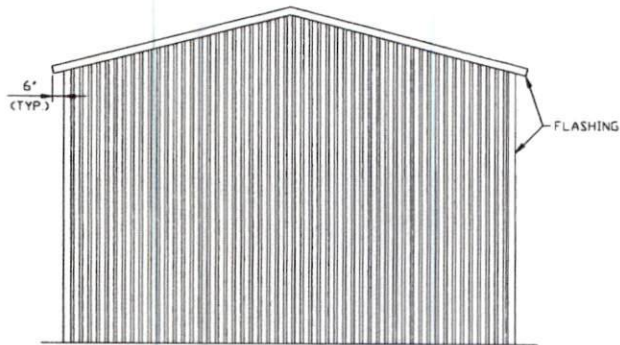
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JOB NO: 18068S  
18156S/18290S/20019S

REV: 8

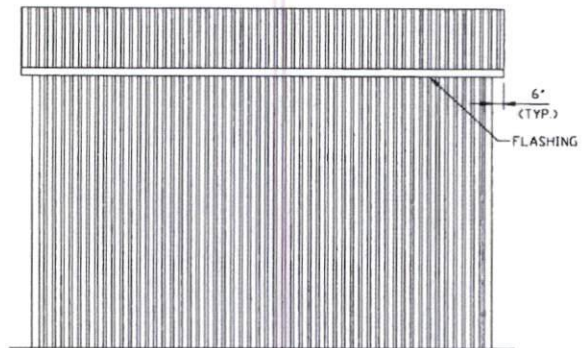
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# BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



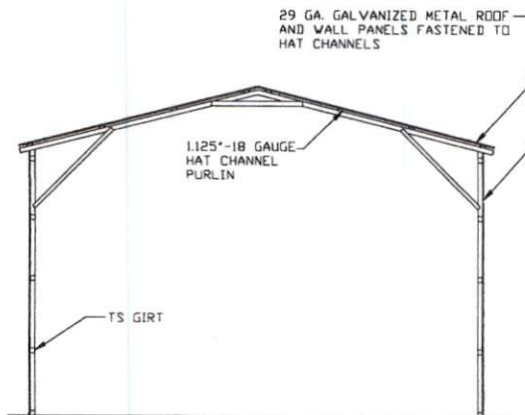
**TYPICAL END ELEVATION  
VERTICAL ROOF/SIDING**

SCALE: NTS



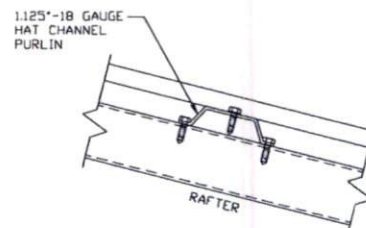
**TYPICAL SIDE ELEVATION  
VERTICAL ROOF/SIDING**

SCALE: NTS



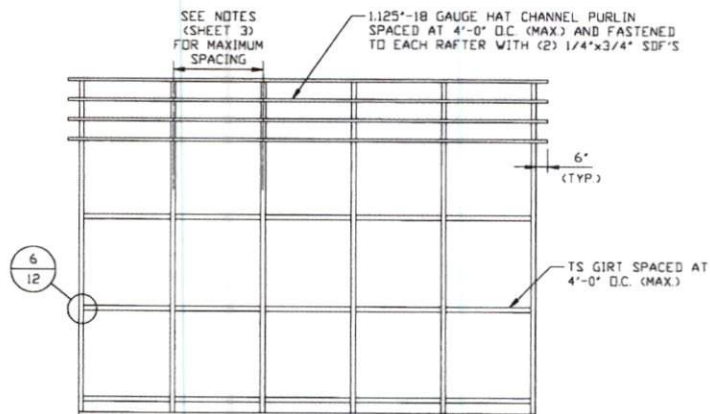
**TYPICAL SECTION  
VERTICAL ROOF/SIDING OPTION**

SCALE: NTS



**PANEL ATTACHMENT**

(ALTERNATE FOR VERTICAL ROOF PANELS)  
SCALE: NTS



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

SCALE: NTS



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ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSH

CLIENT: SBSI

STEEL BUILDINGS AND STRUCTURES, INC.

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

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

DATE: 2-14-20

SHT. 16

SCALE: NTS

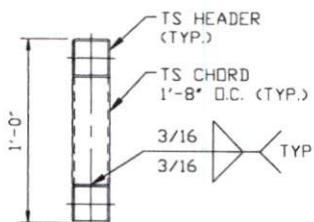
DWG. NO: SK-3

JOB NO: 18068S  
18156S/18290S/20019S

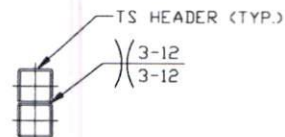
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## SIDE WALL HEADER OPTIONS



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



**DOUBLE HEADER DETAIL FOR DOOR  
OPENINGS 7'-0" < LENGTH ≤ 12'-0"**  
SCALE: NTS

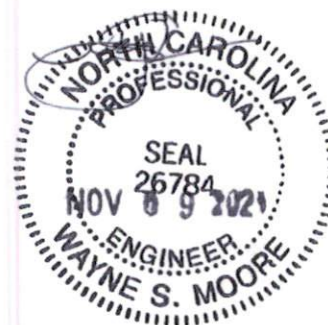


**SINGLE HEADER DETAIL FOR  
DOOR OPENINGS LENGTH ≤ 7'-0"**  
SCALE: NTS

## END WALL HEADER OPTIONS



**SINGLE HEADER DETAIL FOR  
DOOR OPENINGS LENGTH ≤ 12'-0"**  
SCALE: NTS



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

DATE: 2-14-20

SHT. 17

SCALE: NTS

DWG. NO: SK-3

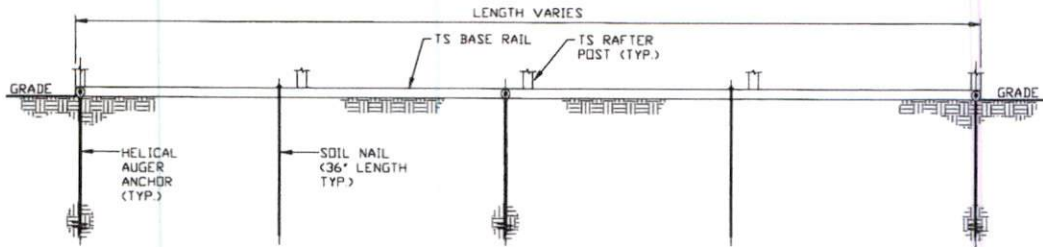
JOB NO: 18068S  
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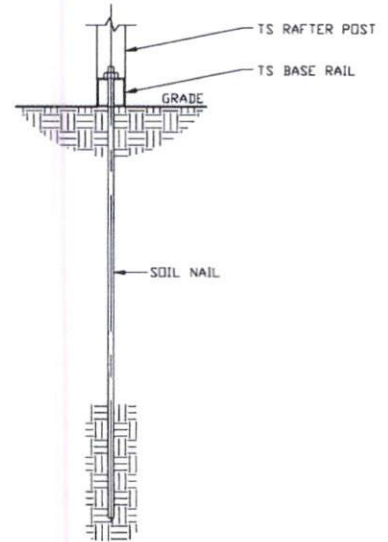
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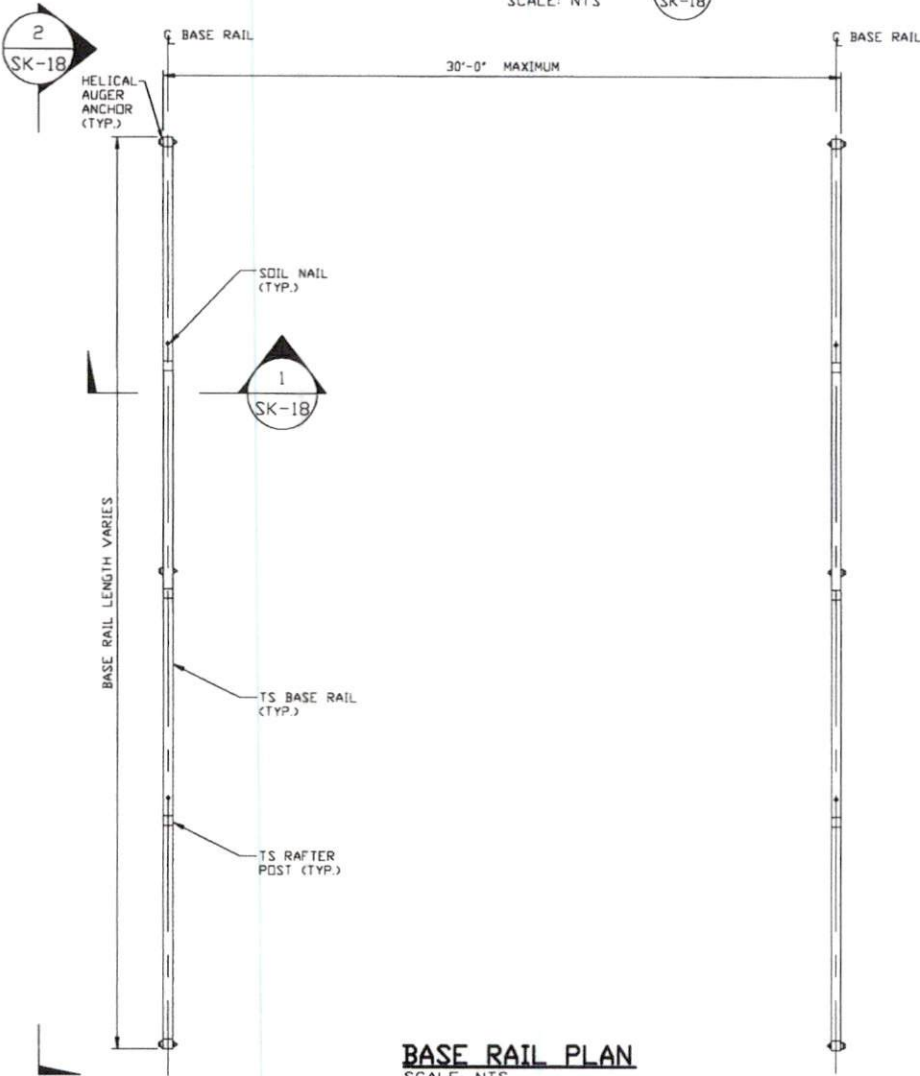
# OPTIONAL BASE RAIL ON GRADE APPLICATION



SECTION 2  
SCALE: NTS  
SK-18



SECTION 1  
SCALE: NTS  
SK-18



BASE RAIL PLAN  
SCALE: NTS

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



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ENGINEERING AND CONSULTING, INC.

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

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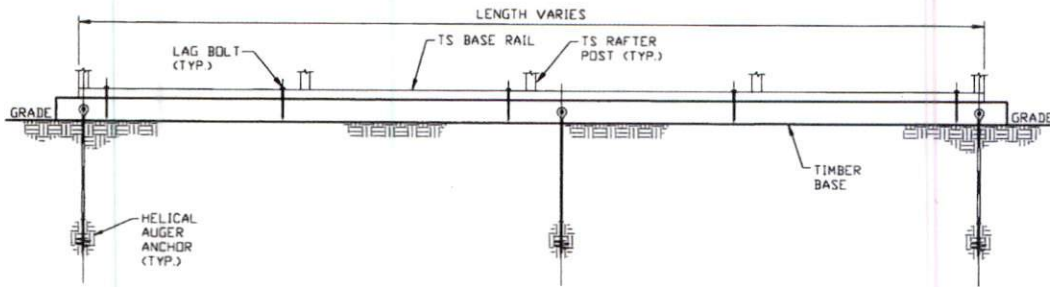
PROJECT MGR: WSM  
CLIENT: SBSI

DATE: 2-14-20  
SHT. 18

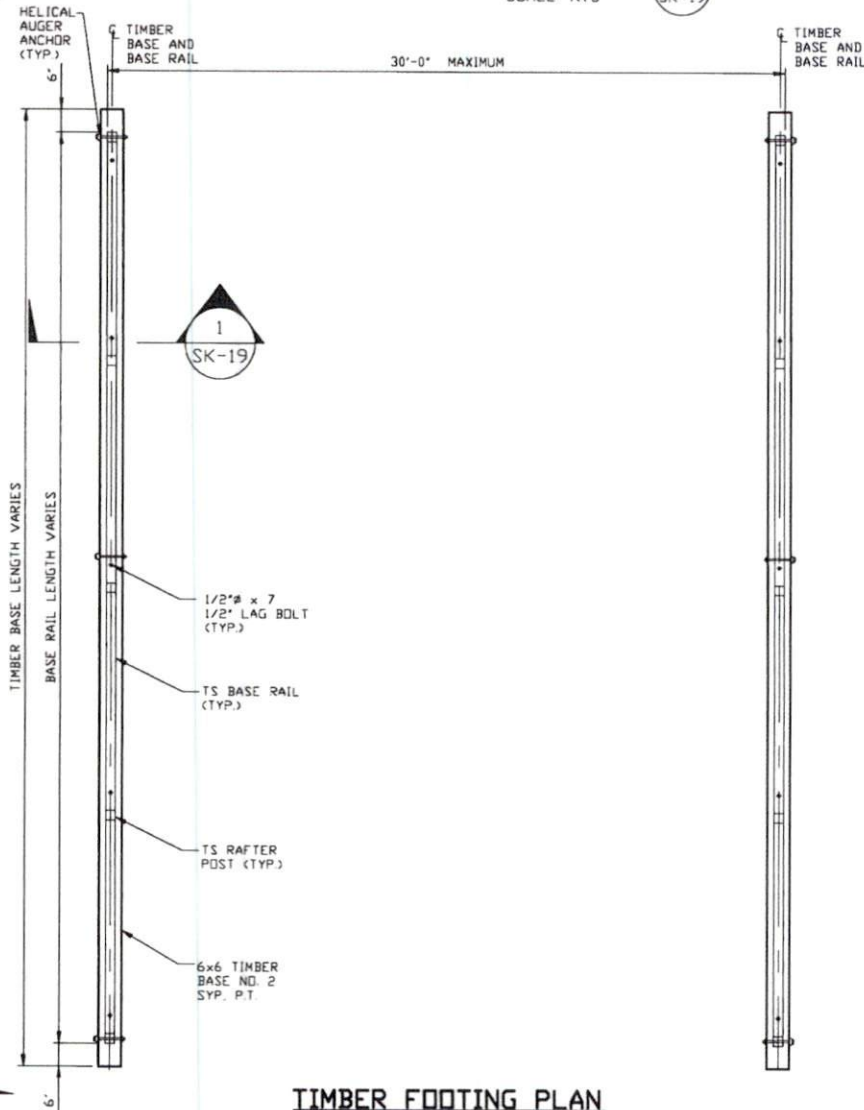
SCALE: NTS  
DWG. NO: SK-3

JOB NO: 18068S  
18156S/18290S/20019S  
REV: 8

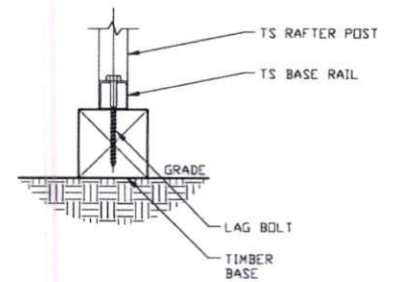
# OPTIONAL BASE RAIL ON TIMBER BEAM



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)



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PROJECT MGR: WSM

CLIENT: SBSI

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

DATE: 2-14-20

SHT. 19

SCALE: NTS

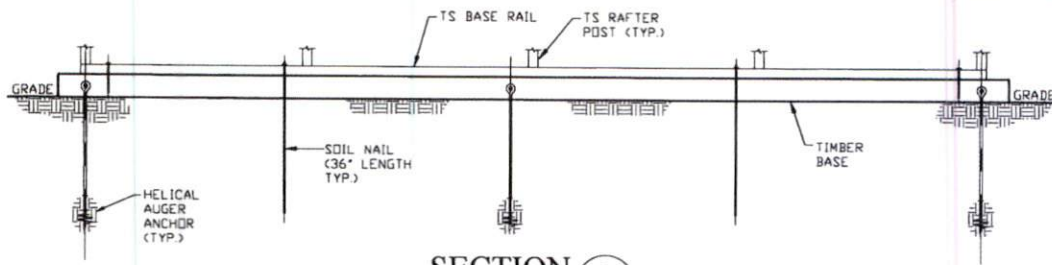
DWG. NO: SK-3

JOB NO: 18068S  
18156S/18290S/20019S

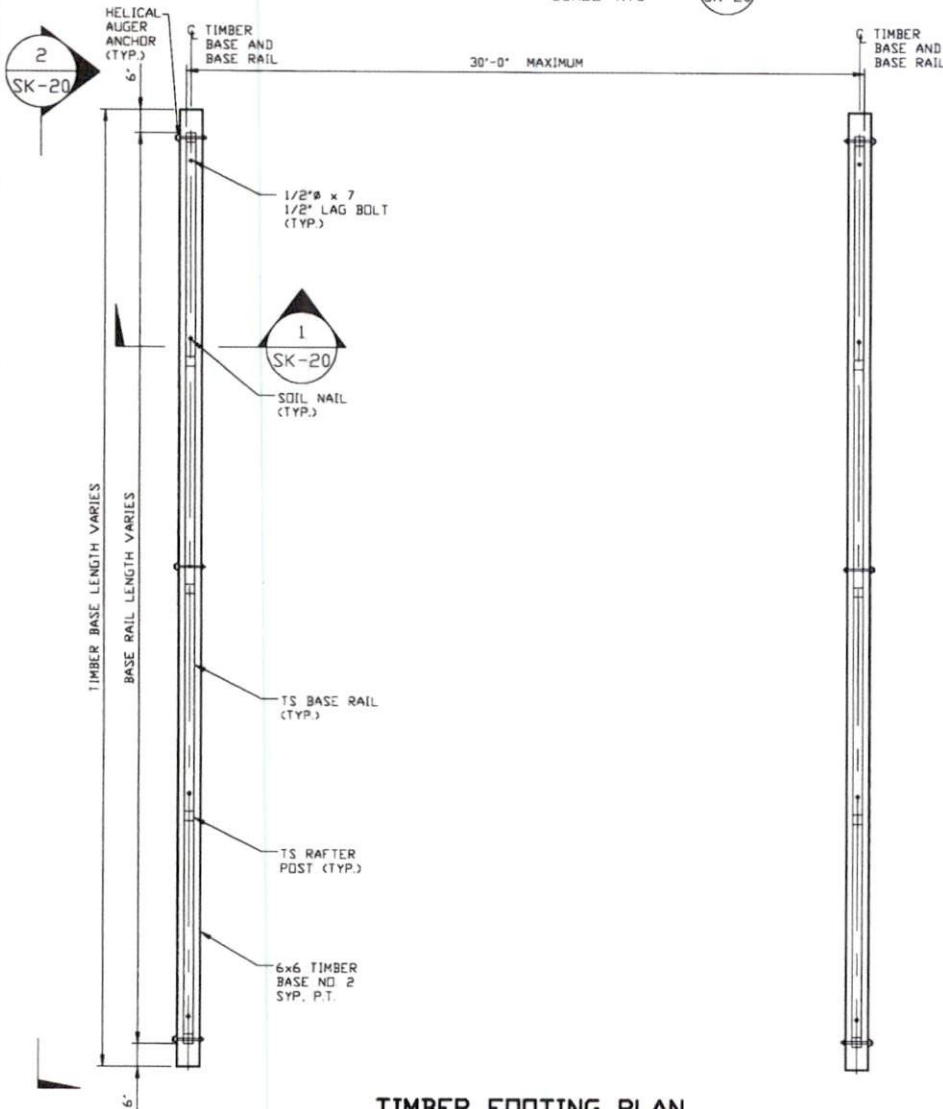
REV: 8

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# OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL

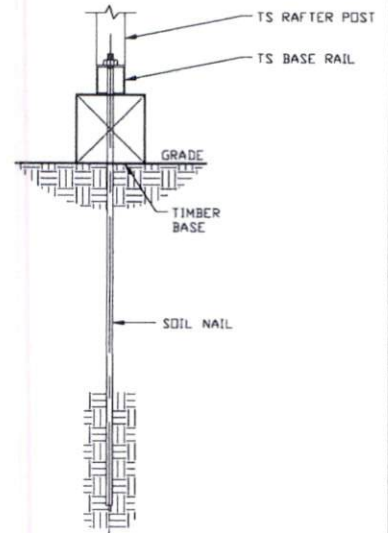


SECTION 2  
SCALE: NTS



TIMBER FOOTING PLAN  
SCALE: NTS

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



SECTION 1  
SCALE: NTS



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CLIENT: SBSI

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

DATE: 2-14-20

SHT. 20

SCALE: NTS

DWG. NO: SK-3

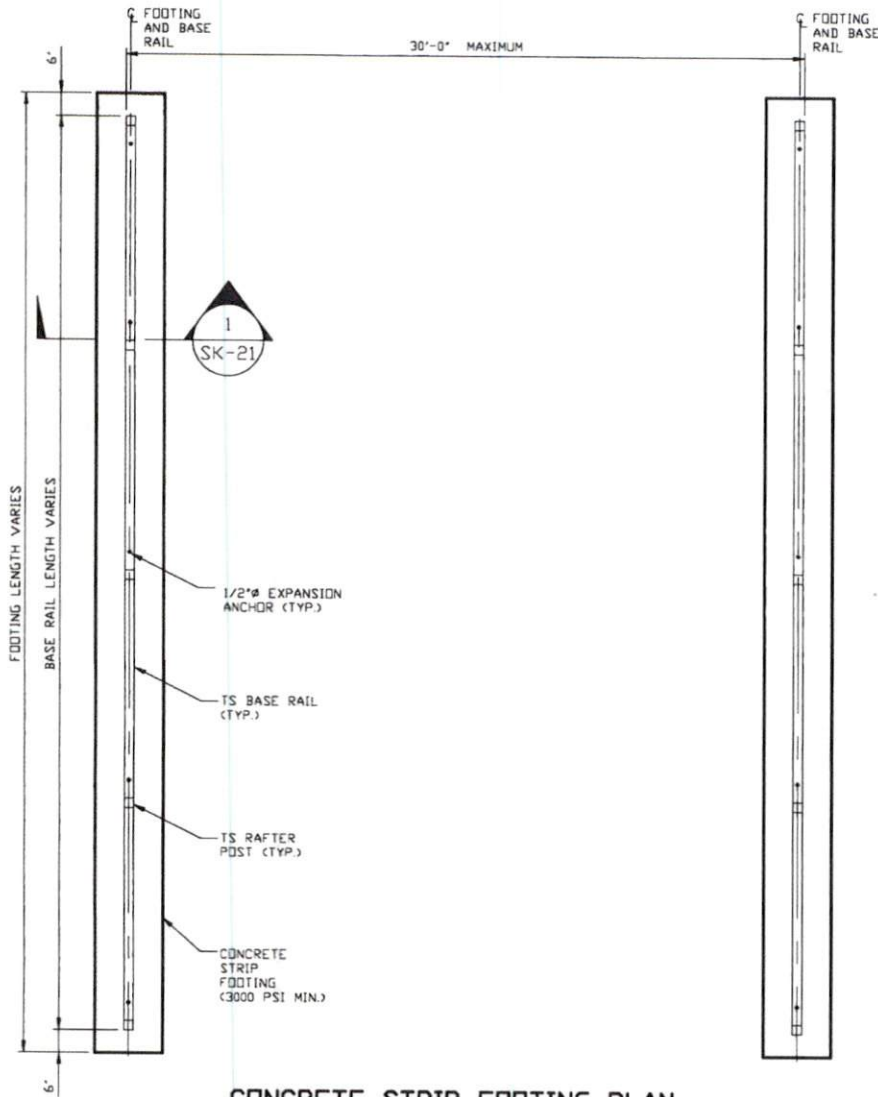
JOB NO: 18068S  
18156S/18290S/20019S

REV: 8

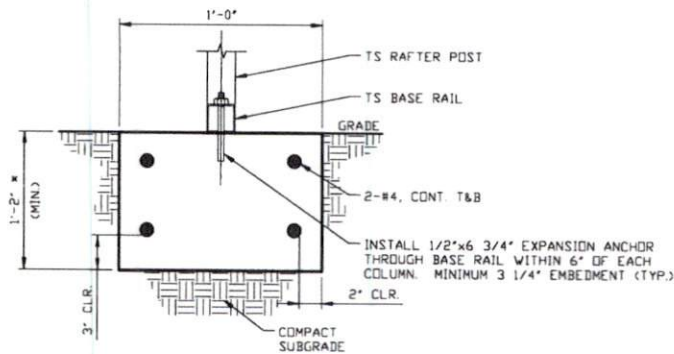
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# OPTIONAL CONCRETE STRIP FOOTING



**CONCRETE STRIP FOOTING PLAN**  
SCALE: NTS



**SECTION 1 SK-21**  
SCALE: NTS

\* COORDINATE WITH LOCAL CODES/ORD.



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

DATE: 2-14-20

SHT. 21

SCALE: NTS

DWG. NO: SK-3

JOB NO: 18068S  
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