



STRUCTURAL DESIGN **ENCLOSED BUILDING**

**MAXIMUM 30'-0" WIDE X 14'-0" EAVE HEIGHT-
BOX EAVE FRAME AND BOW FRAME**

**HIGH WIND SPEED (140 MPH < VULT ≤ 170 MPH) PACKAGE FOR
THE STATES OF FLORIDA, SOUTH CAROLINA AND GEORGIA**

12 February 2021

Revision 6

M&A Project No. 15079S/16195S/17155S/17200S/18068S/20019S/20324S

Prepared for:

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

Prepared by:

Moore and Associates Engineering and Consulting,

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

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

Wayne
S Moore
Digitally signed
by Wayne S
Moore
Date: 2022.09.22
14:38:02 -04'00'



MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING



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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING INC.	DRAWN BY: LT		STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x14'-0" HW ENCLOSED STRUCTURE		
	CHECKED BY: PDH				
	PROJECT MGR: VSM	DATE: 2-12-21	SCALE: NTS	JOB NO: 17200S/ 18068S/20019S/20324S	
	CLIENT: SBSI	SHT. 2	DWG. NO: SK-3	REV: 6	

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INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 14'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) 7TH EDITION, 2012 INTERNATIONAL BUILDING CODE (IBC), 2015 IBC AND 2018 IBC.
3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 15 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 10 PSFNOTE: (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED)
4. 3-SECOND GUST HIGH ULTIMATE WIND SPEED = 141 TO 170 MPH (NOMINAL WIND SPEED = 108 TO 132 MPH).
5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 40 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 AND EDGE) = 8 INCHES; 6 INCHES (FL).
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 RAFTER COLUMN ALONG SIDES.
13. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
SOIL SITE CLASS = D
RISK CATEGORY I
 $R = 3.25$ $I_E = 1.0$
 $S_{DS} = 2.039 \text{ g}$ $V = C_S W$
 $S_{D1} = 1.258 \text{ g}$
14. WINDOW AND DOOR DESIGN PRESSURES ARE APPLICABLE TO THE STATE OF FLORIDA ONLY.



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30'-0"x14'-0" HW ENCLOSED STRUCTURE

DATE: 2-12-21

SCALE: NTS

SHT. 3

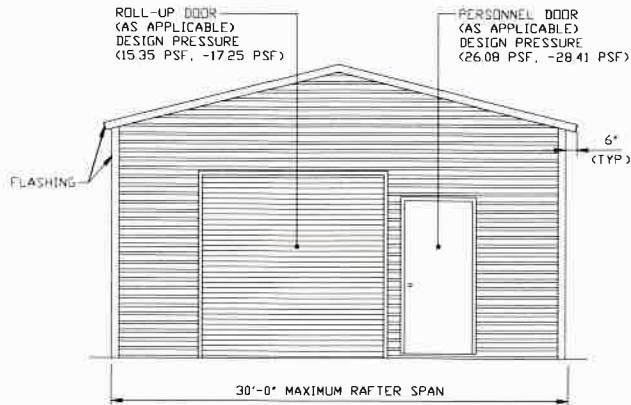
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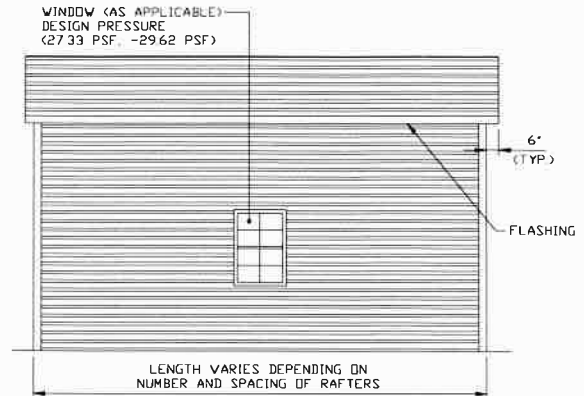
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BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION-HORIZONTAL ROOF

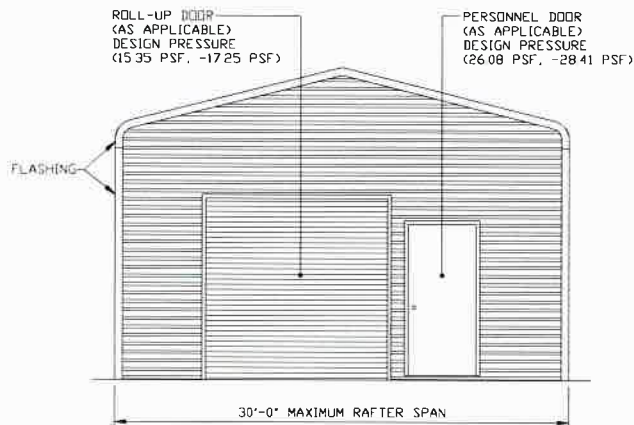
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TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

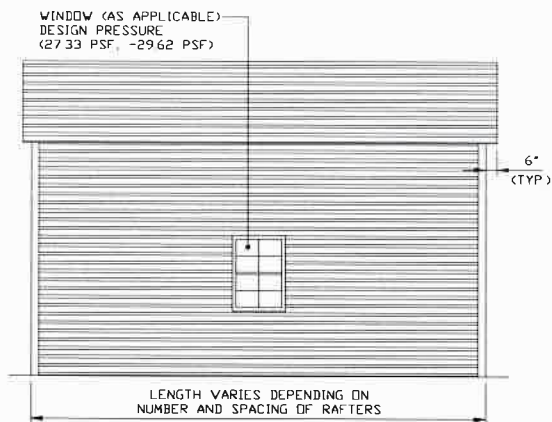
SCALE: NTS

BOW EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

SCALE: NTS



TYPICAL SIDE ELEVATION

SCALE: NTS



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SHT. 4

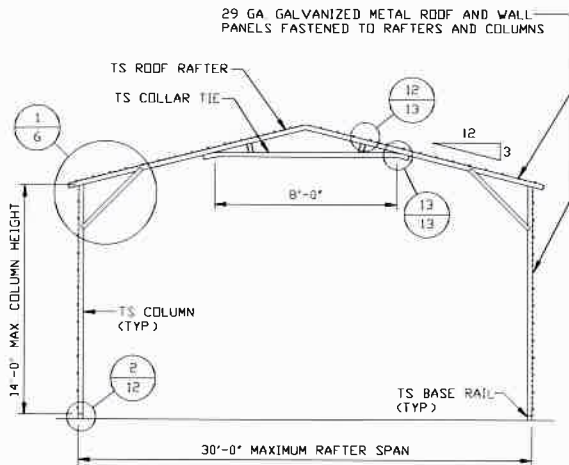
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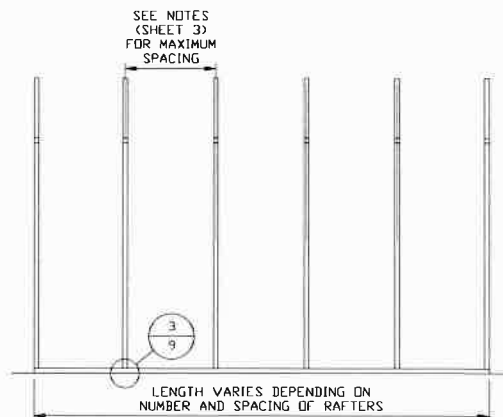
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REV: 6

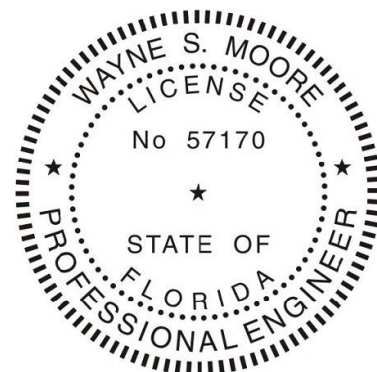
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TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



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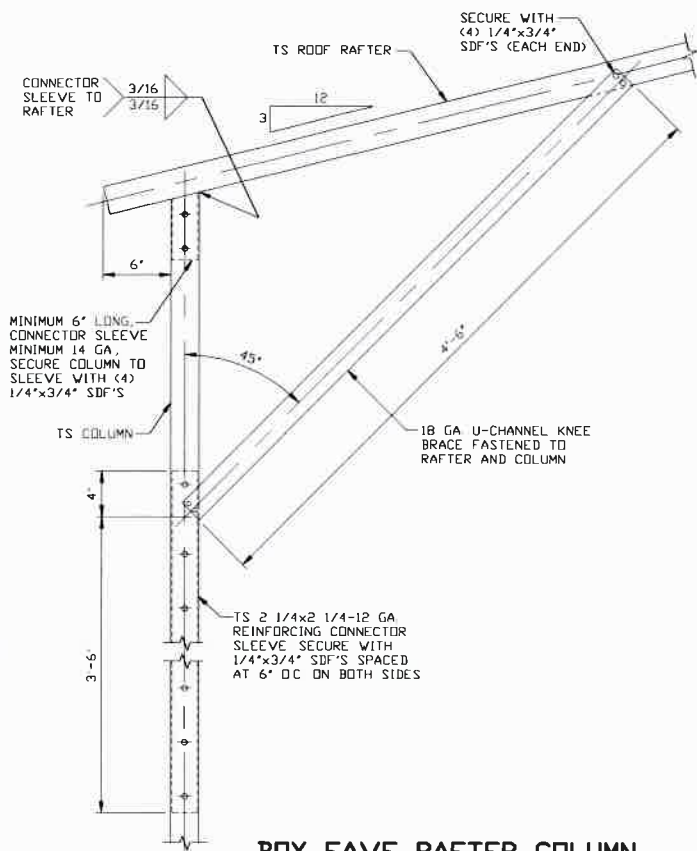
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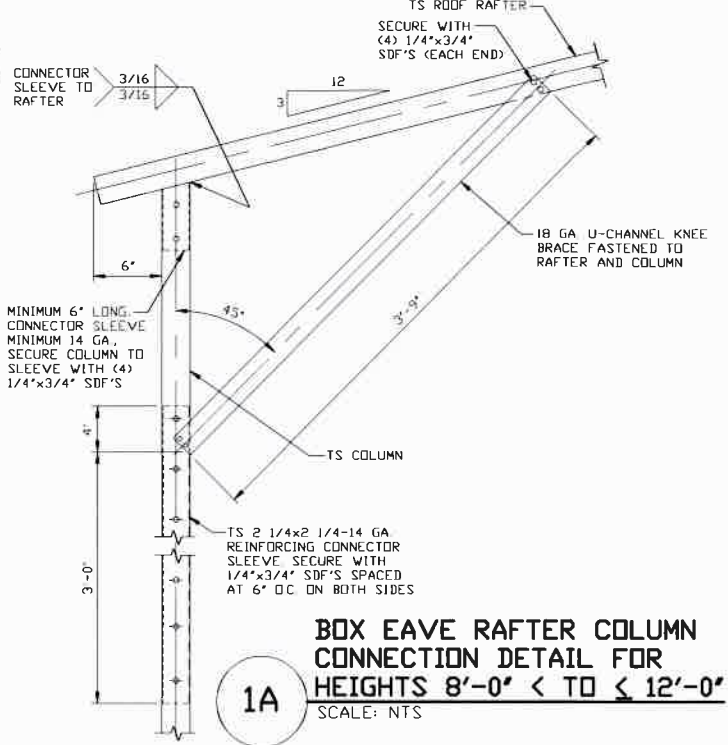
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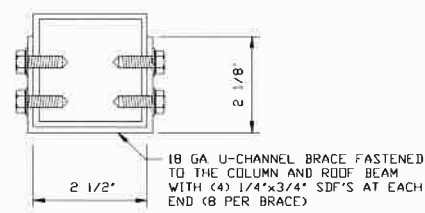
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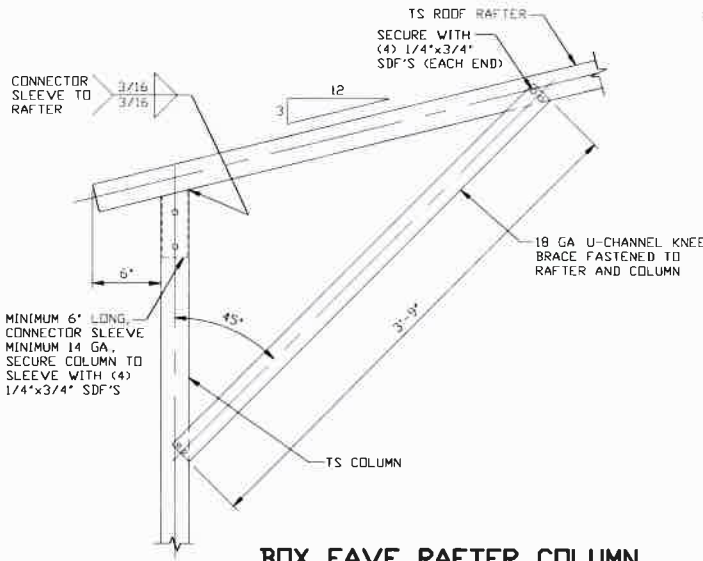
1
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 14'-0"
 SCALE: NTS



1A
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 8'-0" < TO ≤ 12'-0"
 SCALE: NTS



BRACE SECTION
 SCALE: NTS



1B
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 8'-0"
 SCALE: NTS



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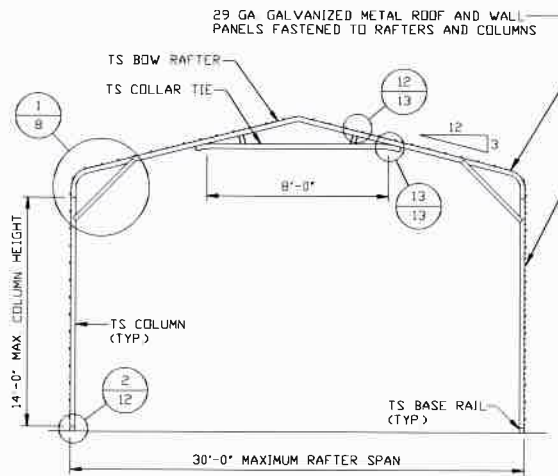
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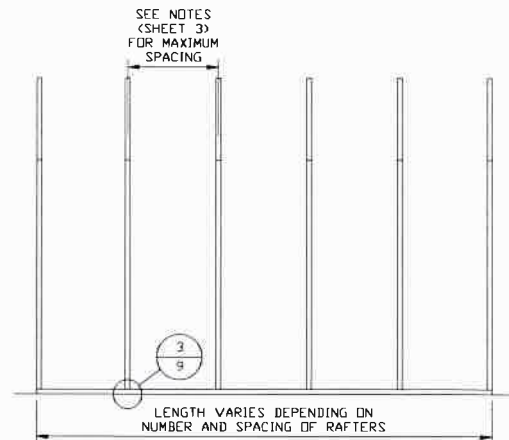
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TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE: NTS



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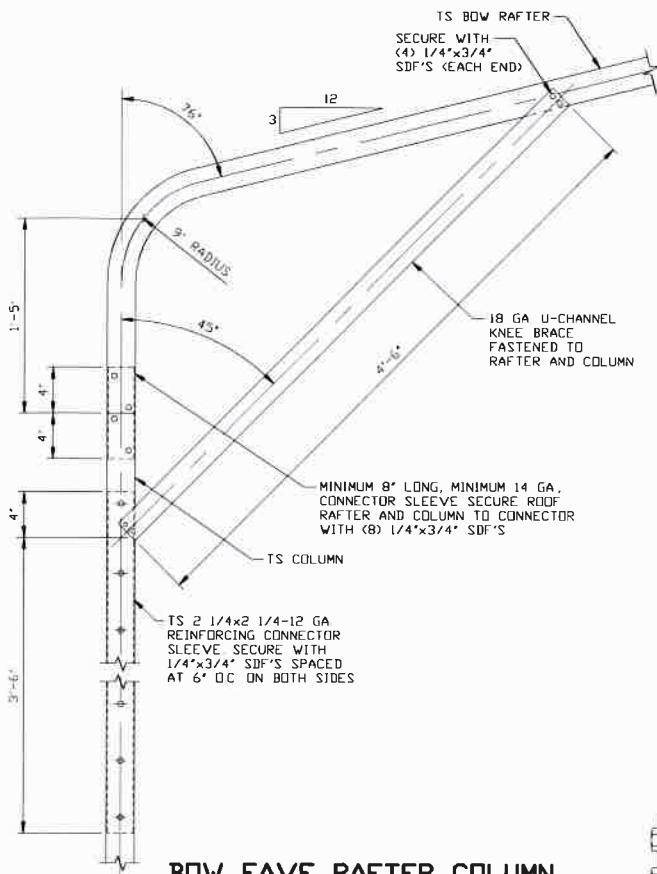
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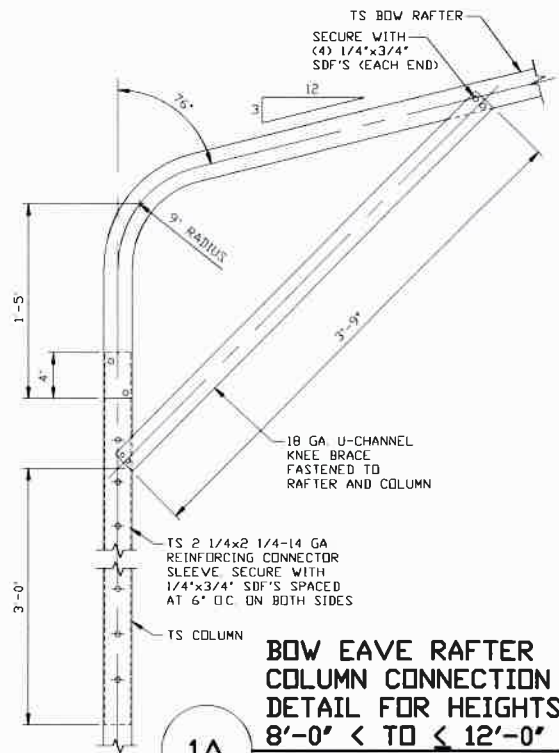
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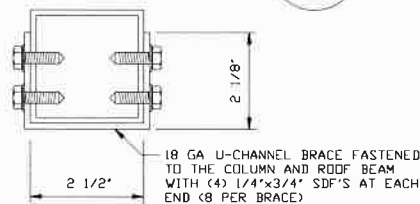
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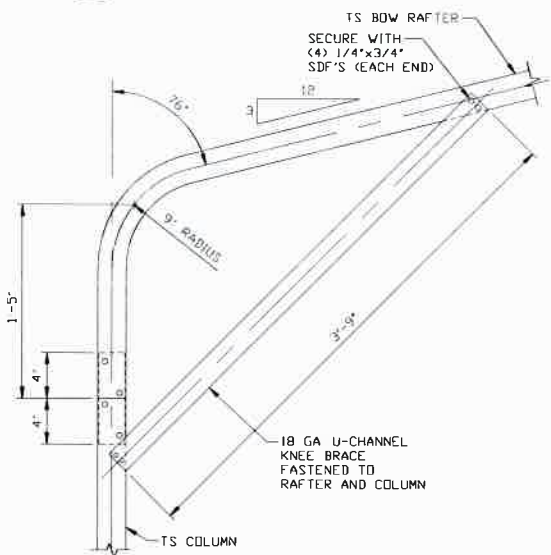
1
BOW EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 12'-0" < TO ≤ 14'-0"
SCALE: NTS



1A
BOW EAVE RAFTER
COLUMN CONNECTION
DETAIL FOR HEIGHTS
8'-0" < TO ≤ 12'-0"
SCALE: NTS



BRACE SECTION
SCALE: NTS



1B
BOW EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS ≤ 8'-0"
SCALE: NTS



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SHT. 8

SCALE: NTS

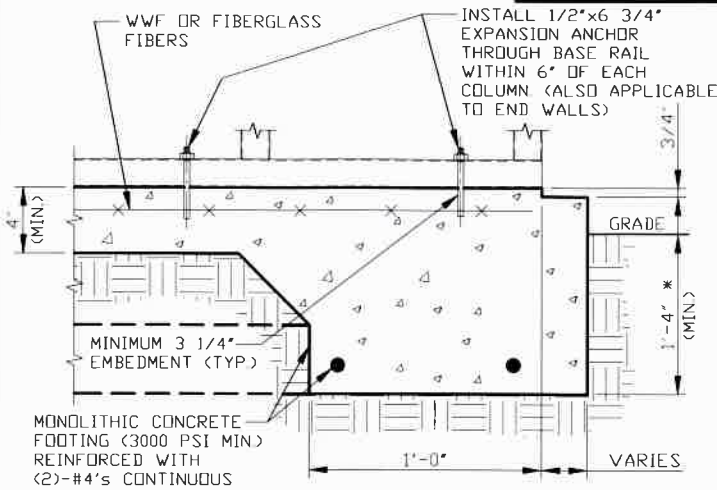
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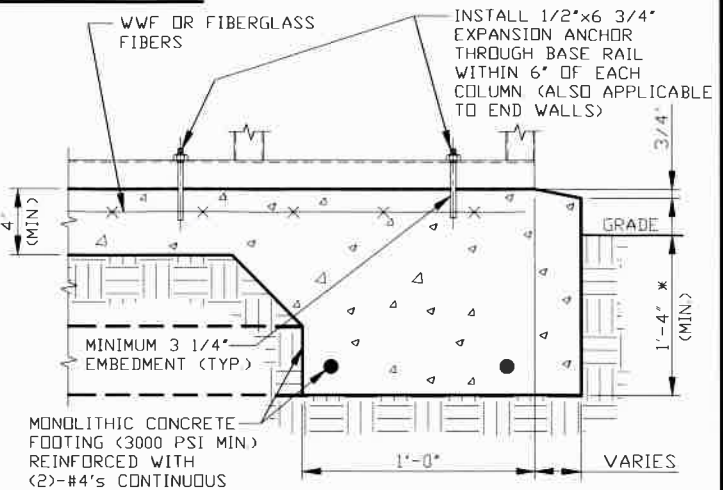
BASE RAIL ANCHORAGE



3

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4\"/>



3A

CONCRETE SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4\"/>

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\"/>

REINFORCING STEEL:

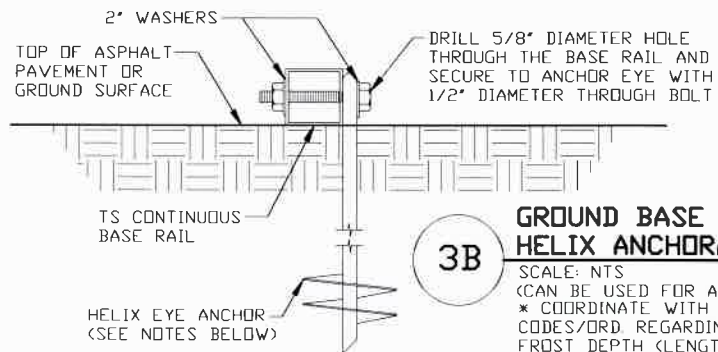
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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\"/>
2. FOR CORAL USE MINIMUM (2) 4\"/>
3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4\"/>
4. FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6\"/>
5. FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8\"/>



3B

GROUND BASE HELIX ANCHORAGE

SCALE: NTS
(CAN BE USED FOR ASPHALT)
* COORDINATE WITH LOCAL CODES/ORD. REGARDING MIN FROST DEPTH (LENGTH).



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SHT. 9

SCALE: NTS

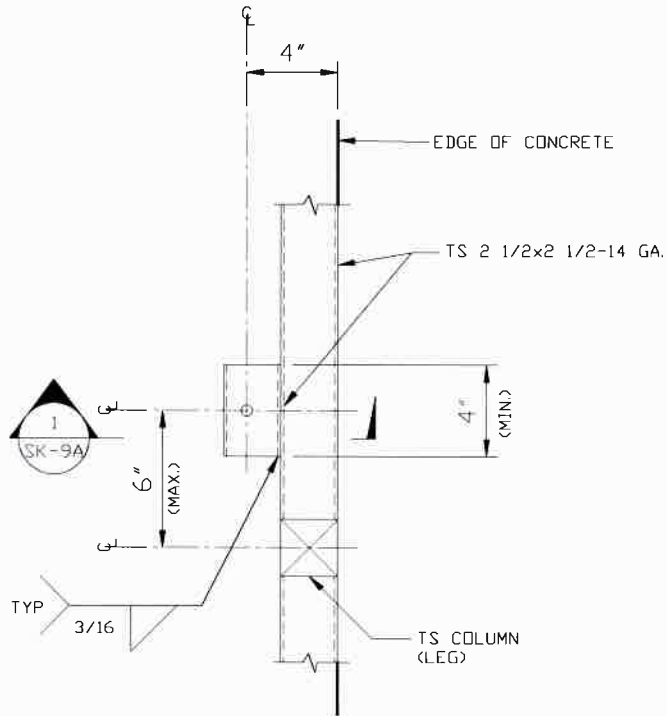
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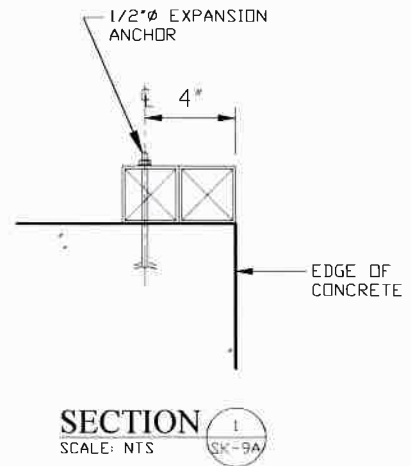
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BASE RAIL ANCHORAGE OPTION



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



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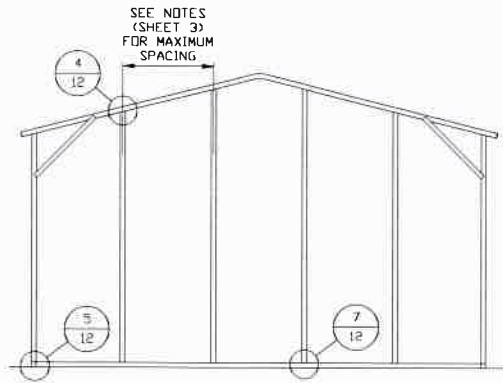
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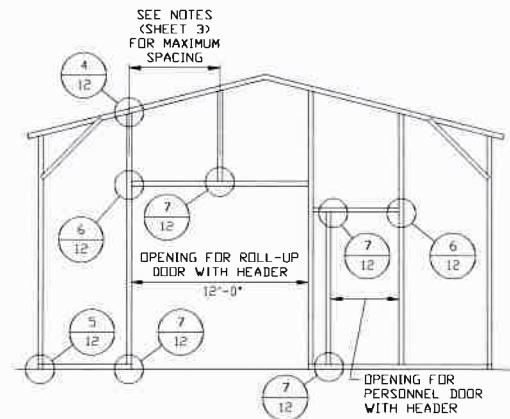
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



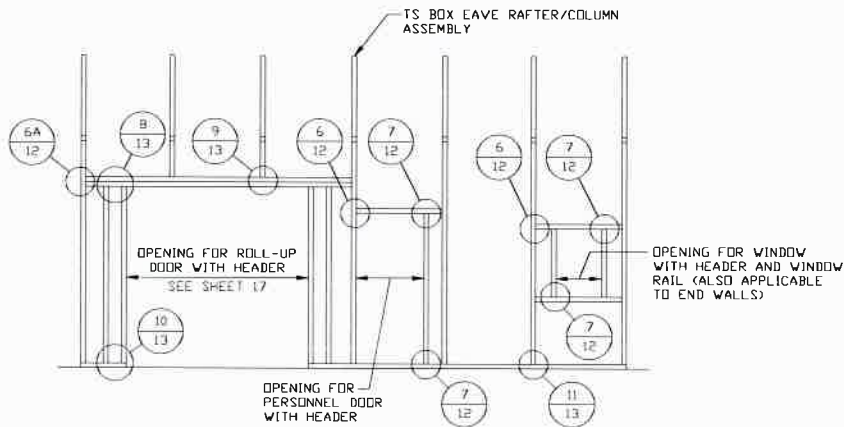
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

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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SHT. 10

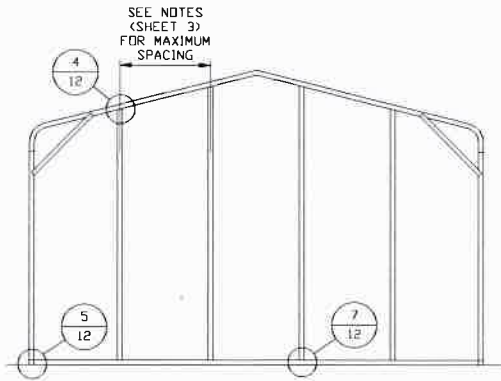
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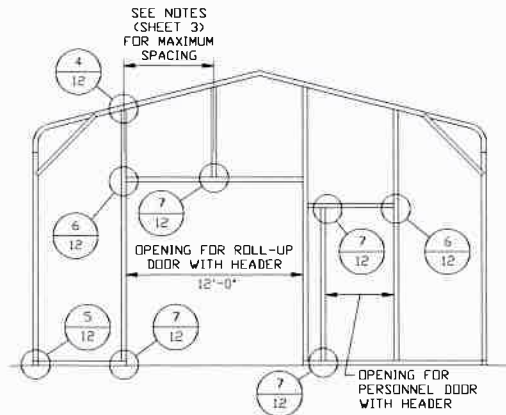
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BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



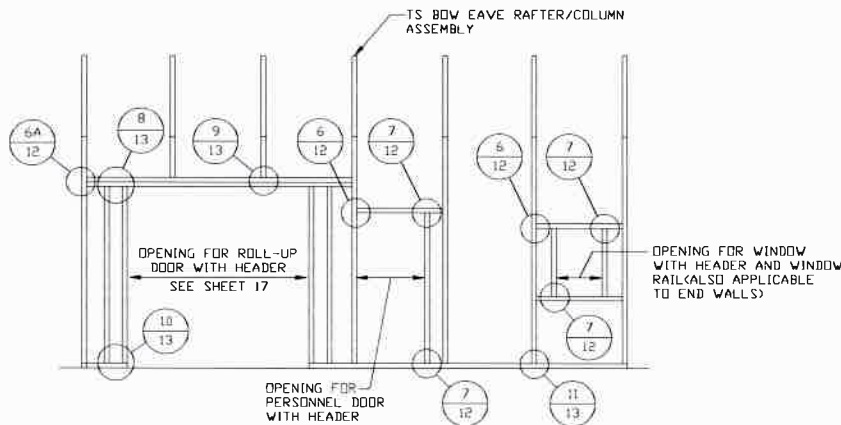
**TYPICAL BOW RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



**TYPICAL BOW RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



**TYPICAL BOW RAFTER SIDE
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



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ENGINEERING AND CONSULTING INC.**

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: SBSI

STEEL BUILDINGS AND STRUCTURES, INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0"x14'-0" HW ENCLOSED STRUCTURE

DATE: 2-12-21

SHT. 11

SCALE: NTS

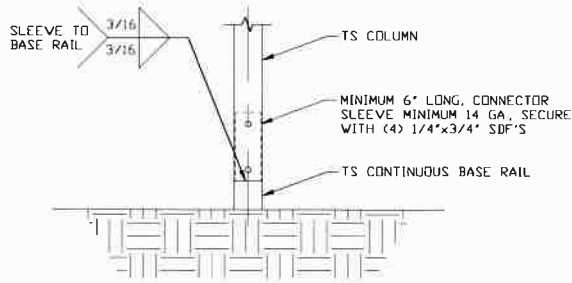
DWG. NO: SK-3

**JOB NO: 17200S/
18068S/20019S/20324S**

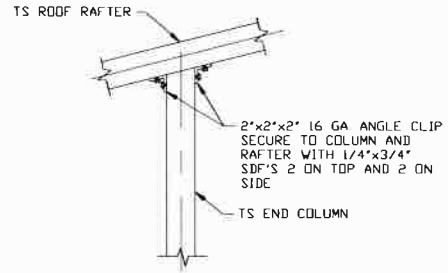
REV: 6

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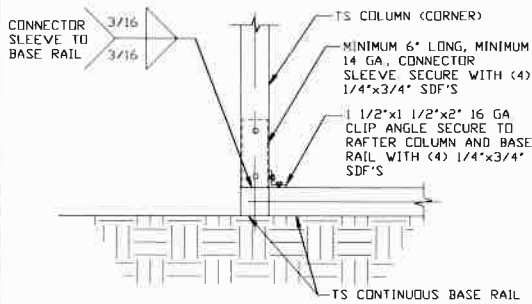
CONNECTION DETAILS



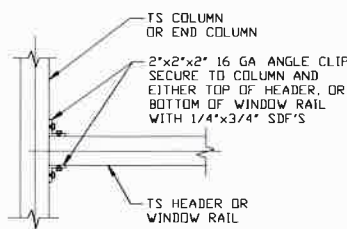
2 RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



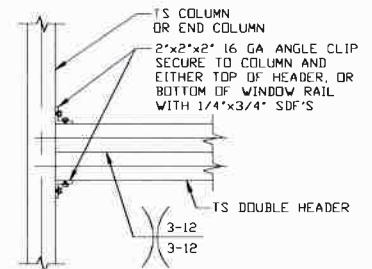
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



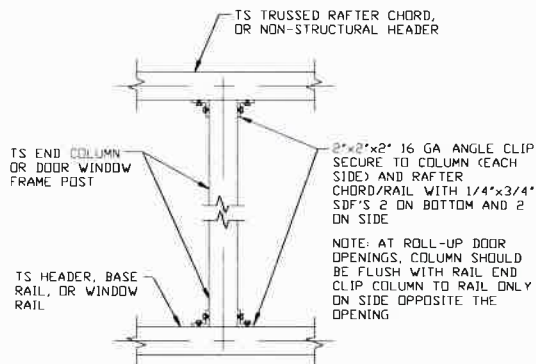
5 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



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



6A COLUMN OR DOUBLE HEADER TO POST CONNECTION DETAIL
SCALE: NTS



7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL
SCALE: NTS



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SHT. 12

SCALE: NTS

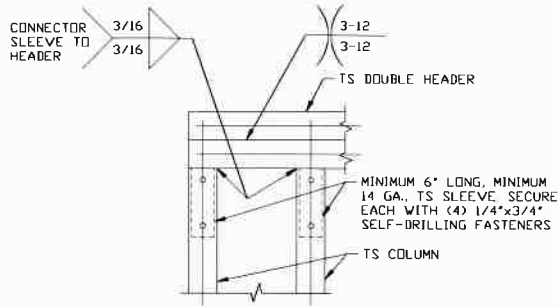
DWG. NO: SK-3

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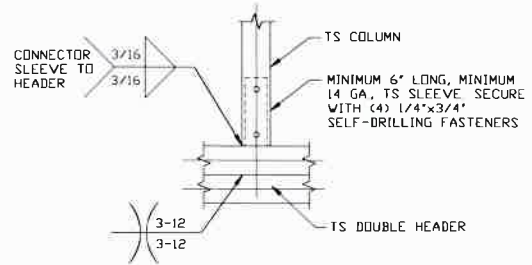
CONNECTION DETAILS



8

**DOUBLE HEADER/COLUMN
CONNECTION DETAIL**

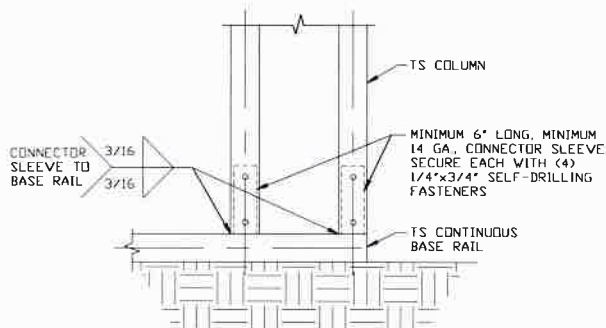
SCALE: NTS



9

**COLUMN/DOUBLE HEADER
CONNECTION DETAIL**

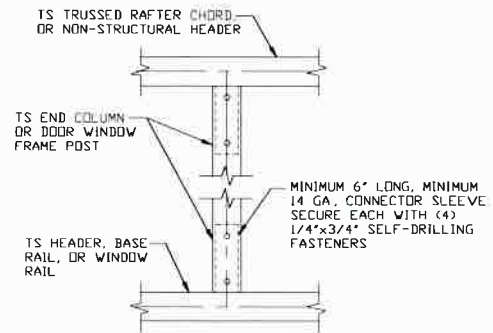
SCALE: NTS



10

**COLUMN/BASE RAIL
CONNECTION DETAIL**

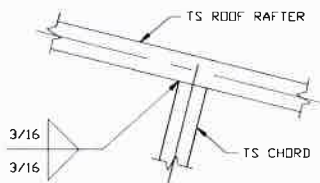
SCALE: NTS



11

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

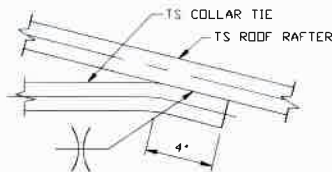
SCALE: NTS



12

**RAFTER TO CHORD
CONNECTION DETAIL**

SCALE: NTS



13

**COLLAR TIE
CONNECTION DETAIL**

SCALE: NTS



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PROJECT MGR: VSM

CLIENT: SBSI

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SHT. 13

SCALE: NTS

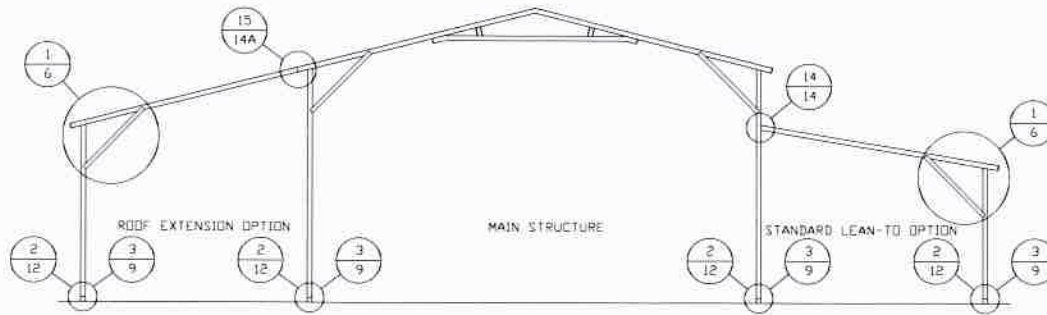
DWG. NO: SK-3

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BOX EAVE RAFTER LEAN-TO OPTIONS

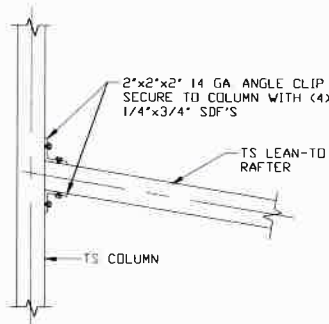


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

MAXIMUM WIDTH OF STANDARD ROOF EXTENSION AND LEAN-TO IS 12'-0"

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



14

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL

SCALE: NTS



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SHT. 14

SCALE: NTS

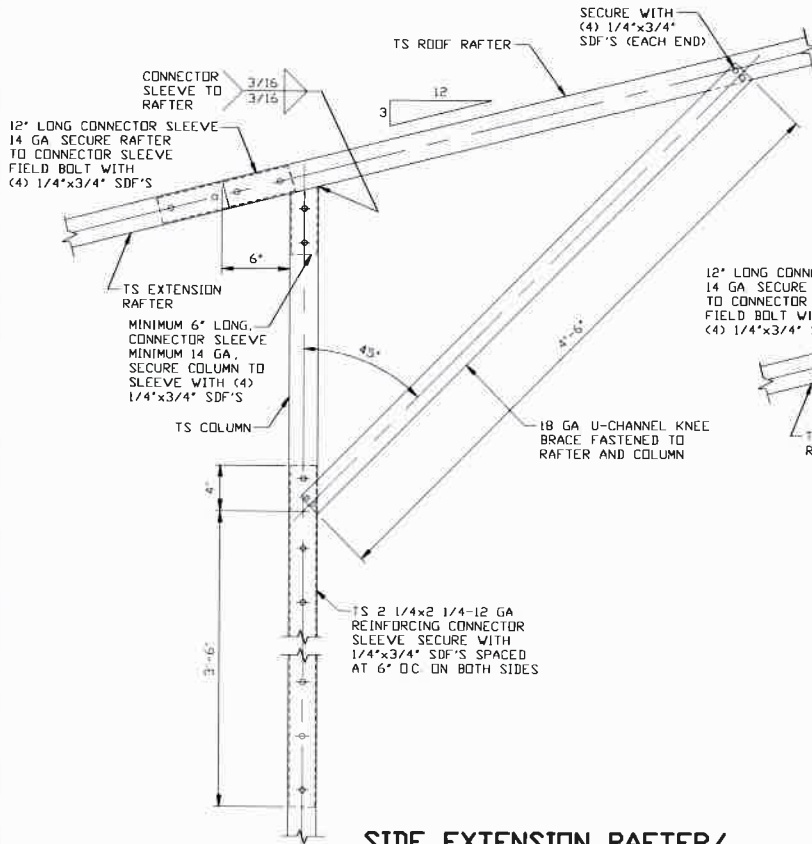
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**JOB NO: 17200S/
18068S/20019S/20324S**

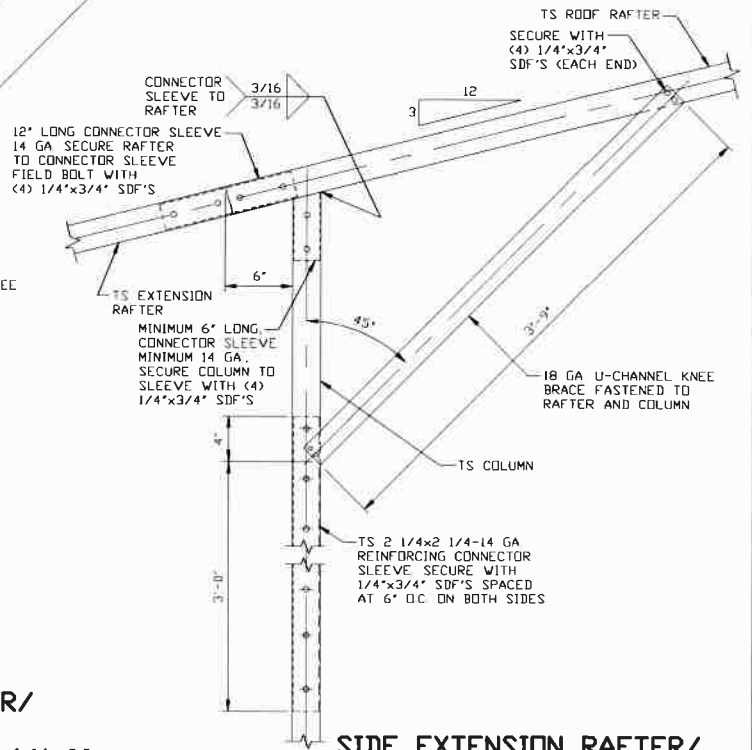
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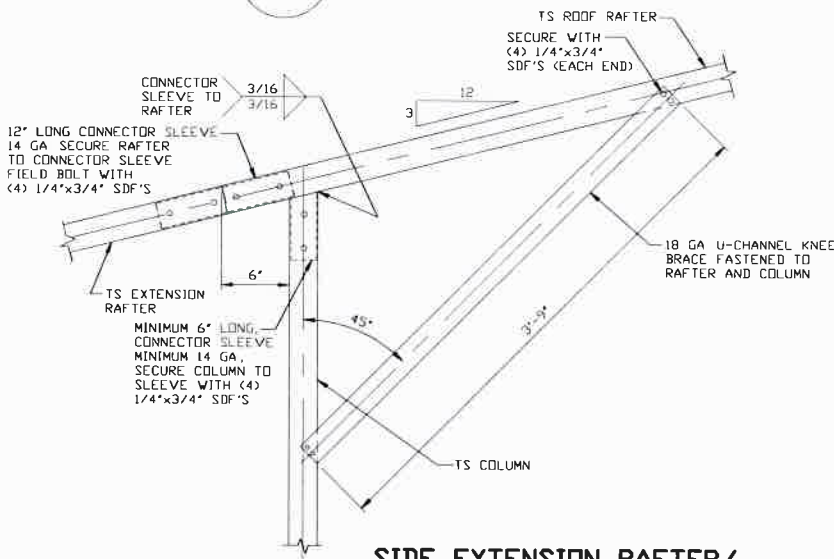
BOX EAVE RAFTER LEAN-TO OPTIONS



15 SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 12'-0" < TO < 14'-0"
SCALE: NTS



15A SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 8'-0" < TO < 12'-0"
SCALE: NTS



15B SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS < 8'-0"
SCALE: NTS



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SHT. 14A

SCALE: NTS

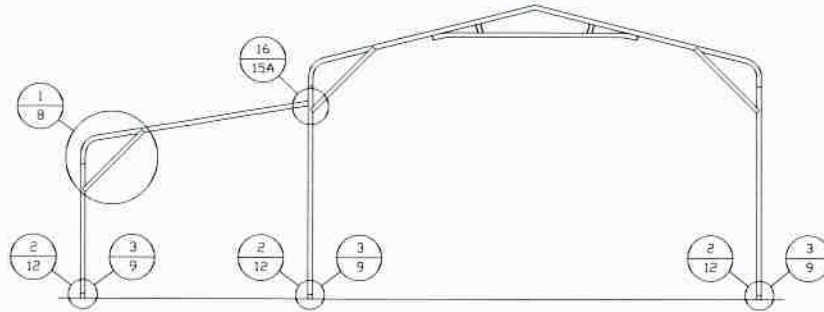
DWG. NO: SK-3

**JOB NO: 17200S/
18068S/20019S/20324S**

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BOW RAFTER LEAN-TO OPTION

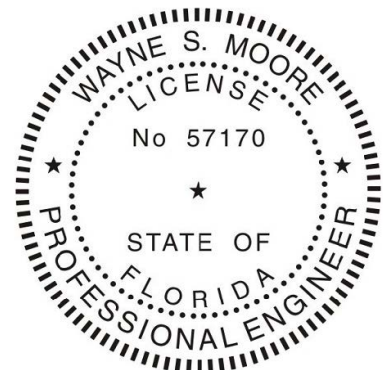


TYPICAL BOW EAVE RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: NTS

MAXIMUM WIDTH OF STANDARD ROOF EXTENSION AND LEAN-TO IS 12'-0"

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



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SHT. 15

SCALE: NTS

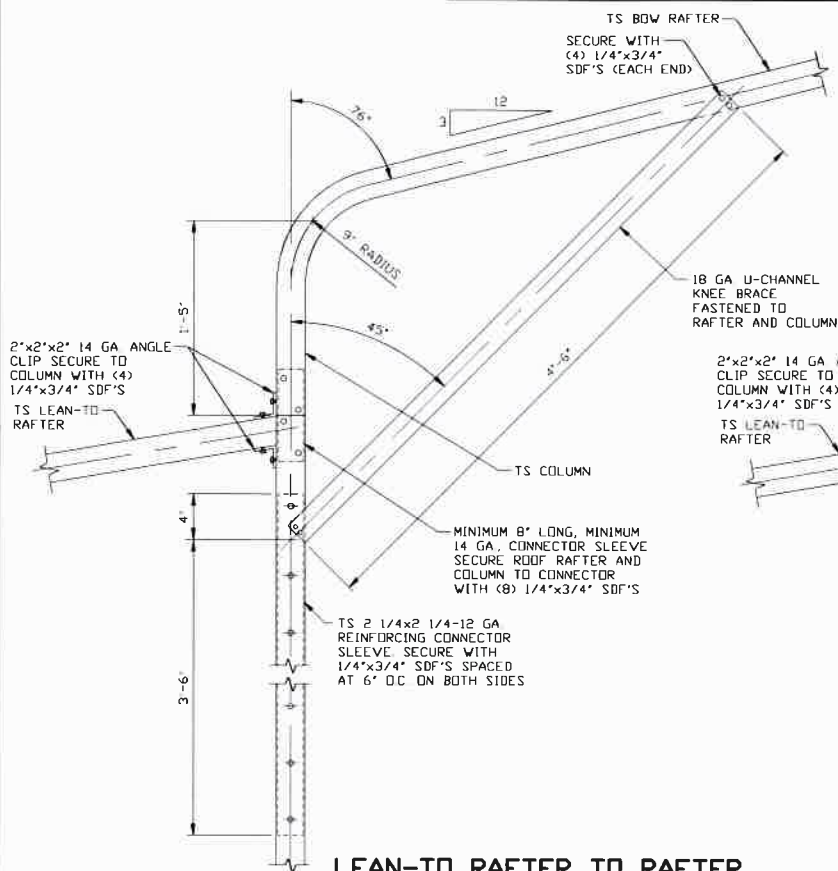
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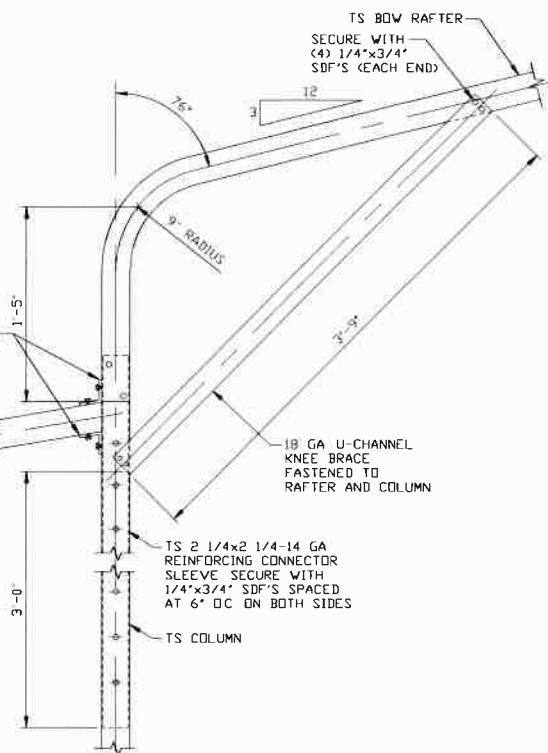
BOW RAFTER LEAN-TO OPTION



LEAN-TO RAFTER TO RAFTER
COLUMN DETAIL FOR
HEIGHTS 12'-0" < TO ≤ 14'-0"

16

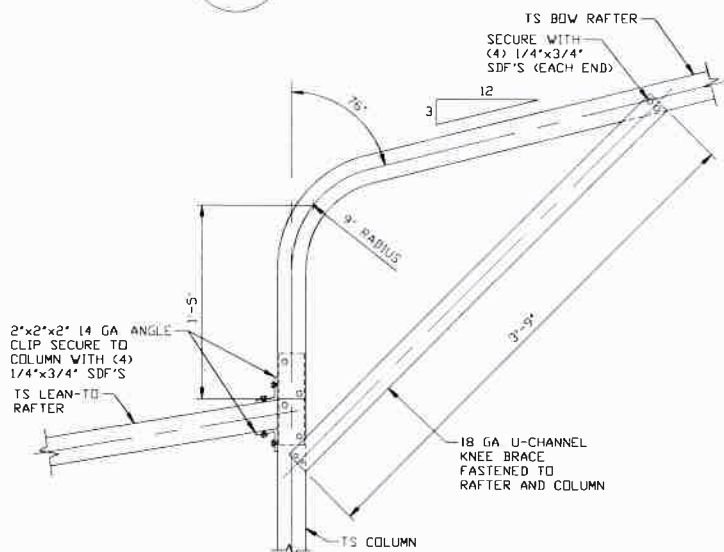
SCALE: NTS



LEAN-TO RAFTER TO RAFTER
COLUMN DETAIL FOR
HEIGHTS 8'-0" < TO < 12'-0"

SCALE: NTS

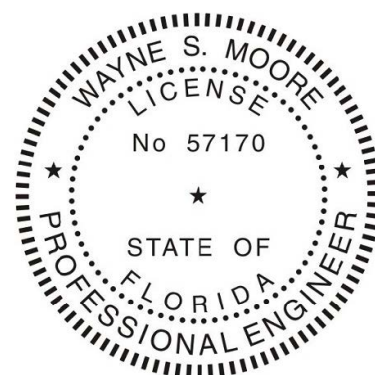
16A



LEAN-TO RAFTER TO RAFTER
COLUMN DETAIL FOR
HEIGHTS $\leq 8'-0"$

16B

SCALE: NTS



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DATE: 2-12-21

SHT. 15A

SCALE: NTS

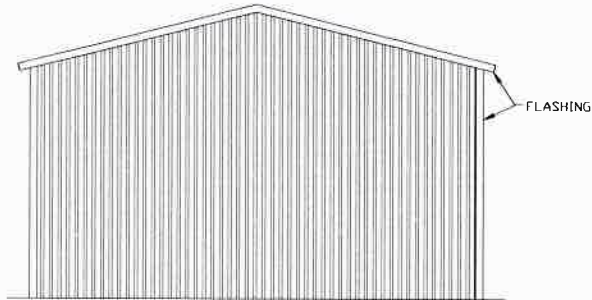
DWG. NO: SK-3

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18068S/20019S/20324S

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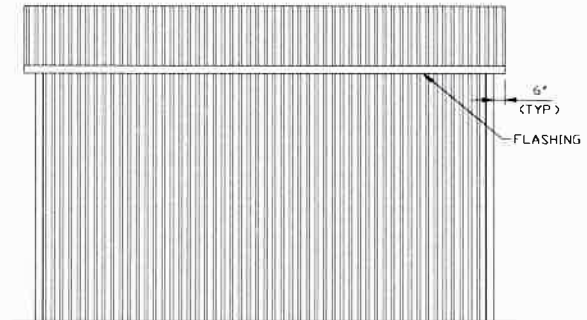
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



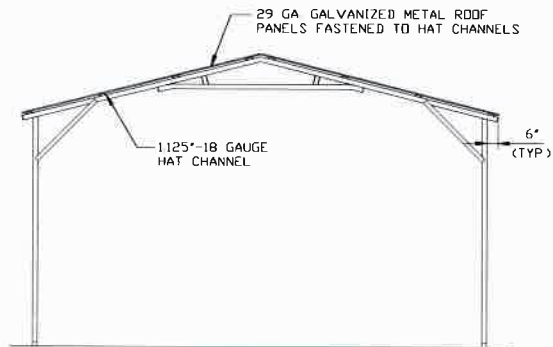
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS



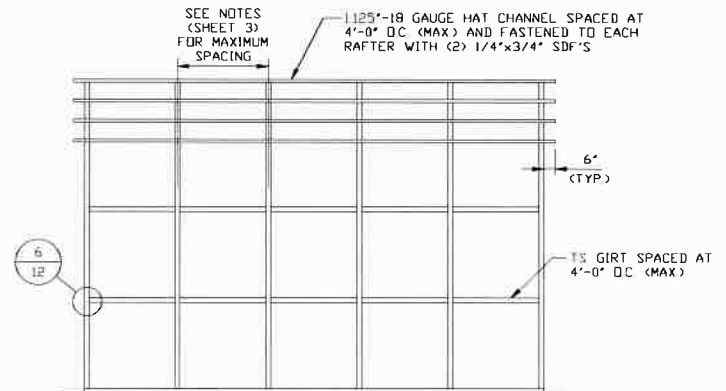
**TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS



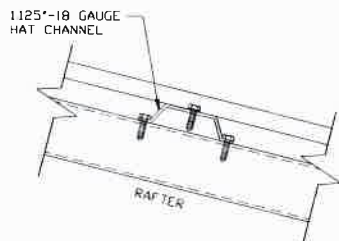
**TYPICAL SECTION
VERTICAL ROOF/SIDING OPTION**

SCALE: NTS



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

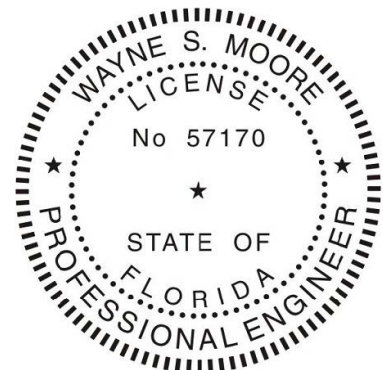
SCALE: NTS



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)

SCALE: NTS



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SHT. 16

SCALE: NTS

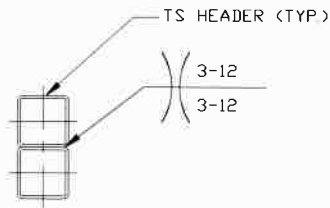
DWG. NO: SK-3

**JOB NO: 17200S/
18068S/20019S/20324S**

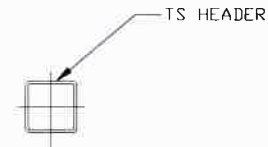
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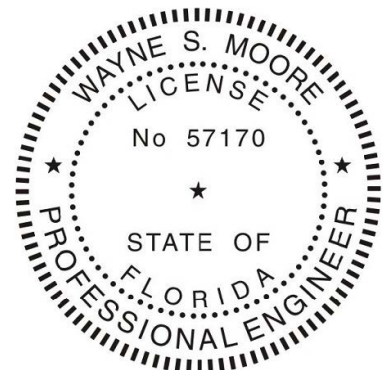
OPTIONAL HEADERS



**DOUBLE HEADER DETAIL FOR DOOR
OPENINGS 10'-0" < LENGTH ≤ 12'-0"**
SCALE: NTS



**SINGLE HEADER DETAIL FOR
DOOR OPENINGS LENGTH ≤ 10'-0"**
SCALE: NTS



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SHT. 17

DWG. NO: SK-3

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