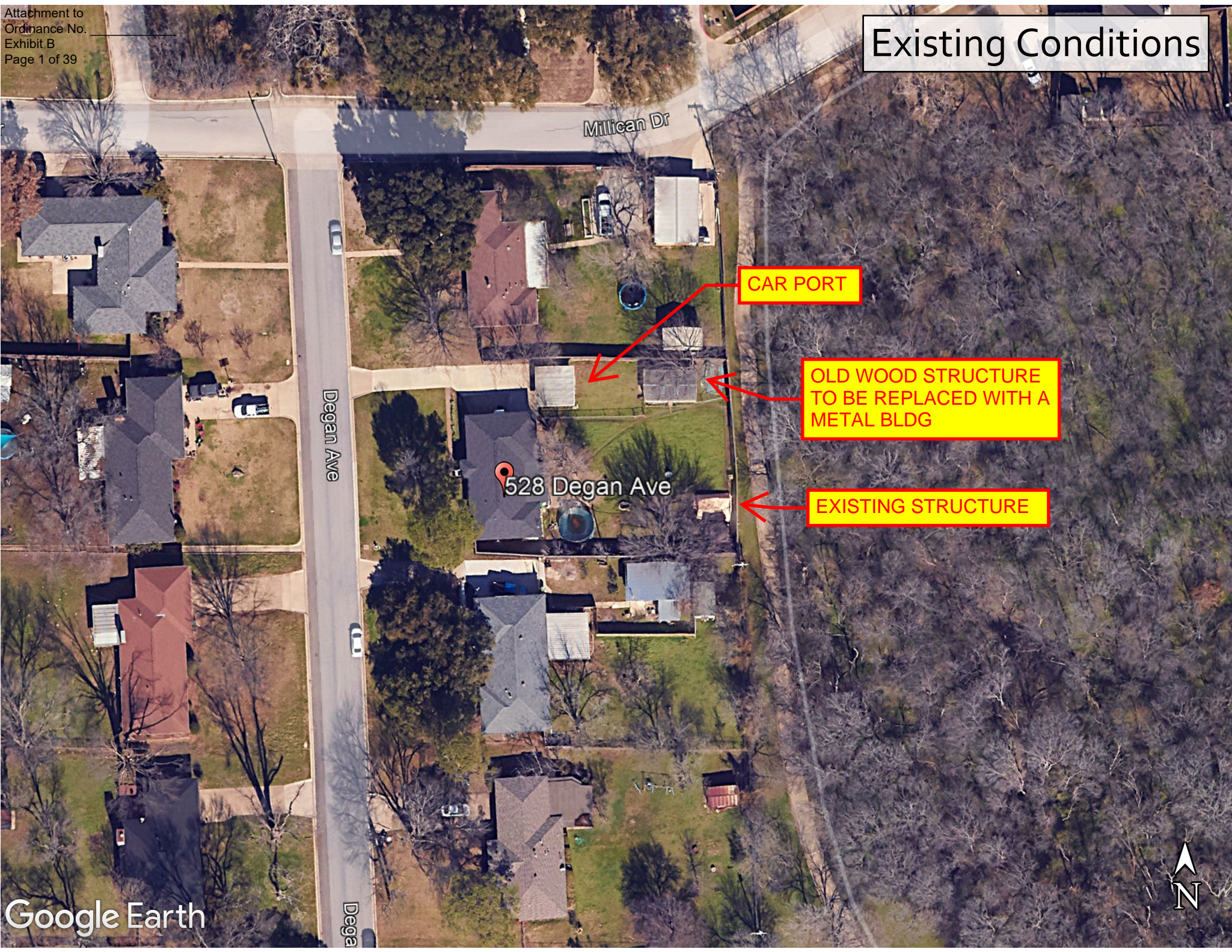


Existing Conditions



Millican Dr

Degan Ave

528 Degan Ave

CAR PORT

OLD WOOD STRUCTURE TO BE REPLACED WITH A METAL BLDG

EXISTING STRUCTURE



Existing Conditions



REPLACING
EXISTING
WOODEN
GARAGE

14 X 26

10+10X10
SHED

TEMP
CARPORT

20 X 20

EXISTING
CARPORT

20 X 20

HOUSE

528 DEAN AVE

← North

STRUCTURAL DESIGN
ENCLOSED BUILDING

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

27 May 2021
Revision 01
M&A Project No. 19262S

Prepared for:

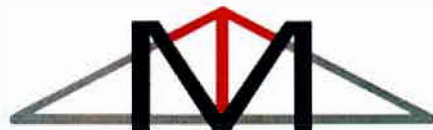
Texas Metal Carports

Prepared by:

Moore and Associates Engineering and Consulting, Inc.

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


**401 S. Main Street, Suite 200
Mount Airy, NC 27030**



MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING



**528 Degan Ave
Lewisville, Texas 75057**

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		SHT. <u>1</u>	DWG. NO: <u>SK-3</u>	REV: <u>0</u>

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		SHT. 2	DVG. NO: SK-3	REV: 0

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 2018 INTERNATIONAL BUILDING CODE (IBC), 2015 IBC, 2012 IBC AND 2009 IBC.
- 3 DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 15 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 20 PSF WITH WELDED RAFTER TIE (W ≤ 30'-0")
= 20 PSF WITH U-CHANNEL PEAK BRACE (W ≤ 24'-0")

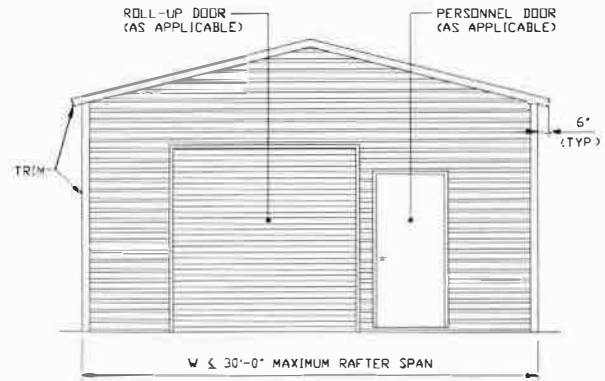
NOTE: UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED
- 4 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) = 145 MPH (NOMINAL WIND SPEED = 112 MPH)
- 5 MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE)
- 6 END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL COLUMNS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE)
- 7 RISK CATEGORY I
- 8 WIND EXPOSURE CATEGORY B/C
- 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) = 10" OC (MAX)
- 11 FASTENERS CONSIST OF #12-14x3/4" 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.
- 12 ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN (LEG)
- 13 STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG AND MAY BE USED IN SUITABLE SOIL CONDITIONS. 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/II/III
 R = 3.25 I_E = 1.0
 S_{D5} = 2.039 g V = 0.5W
 S_{D1} = 1.258 g



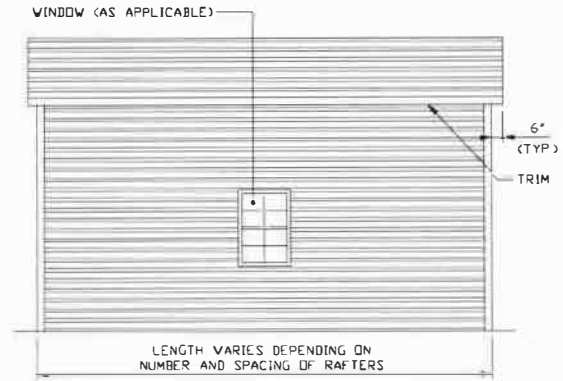
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		SHT. 3	DWG. NO: SK-3	REV: 0

BOX EAVE FRAME RAFTER STRUCTURE

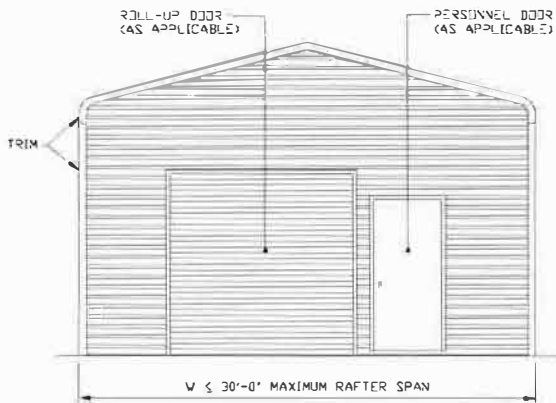


TYPICAL END ELEVATION
 SCALE: NTS

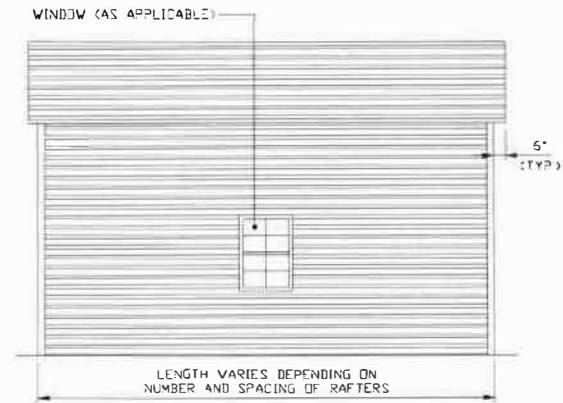


TYPICAL SIDE ELEVATION
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BOW FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION
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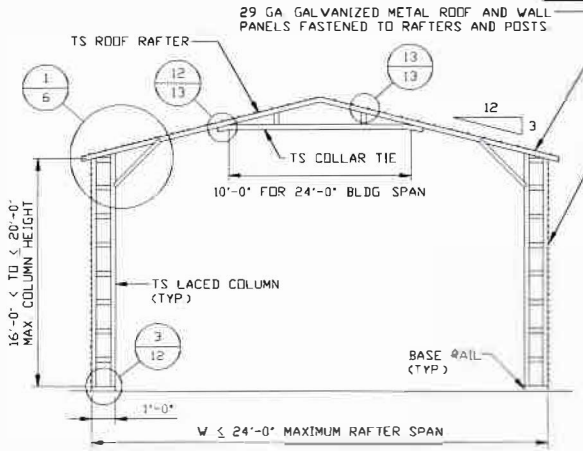
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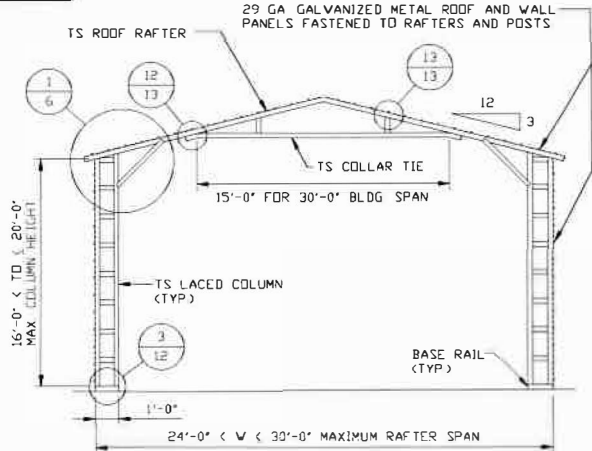
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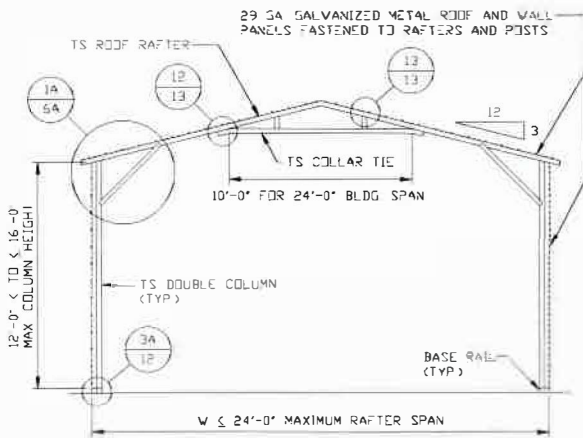
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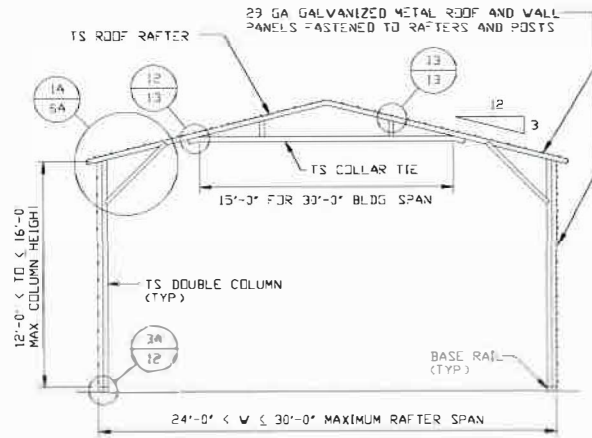
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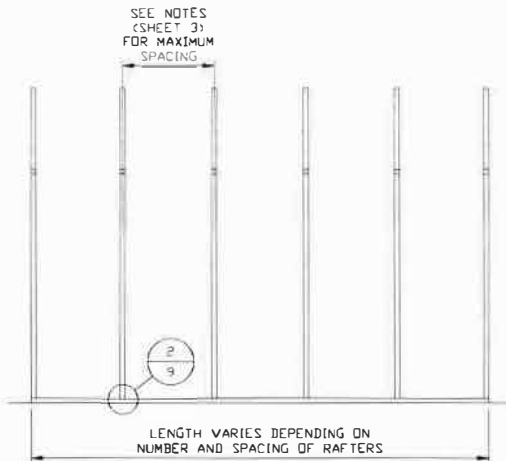
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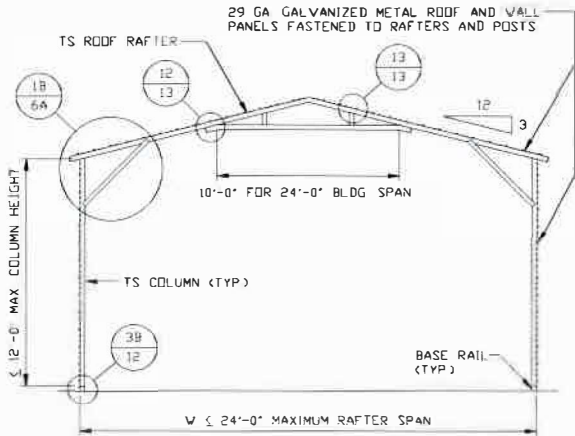
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
 SCALE: NTS



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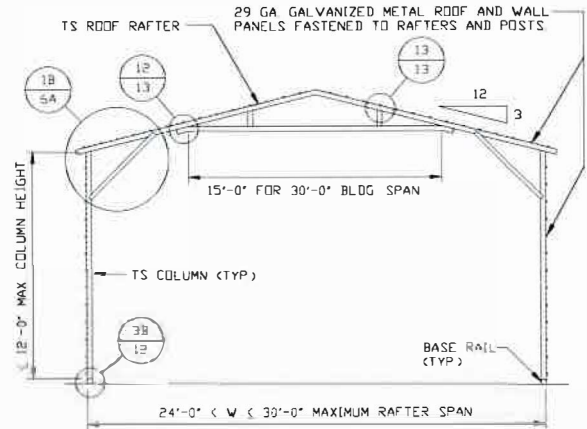
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EXPOSURE B



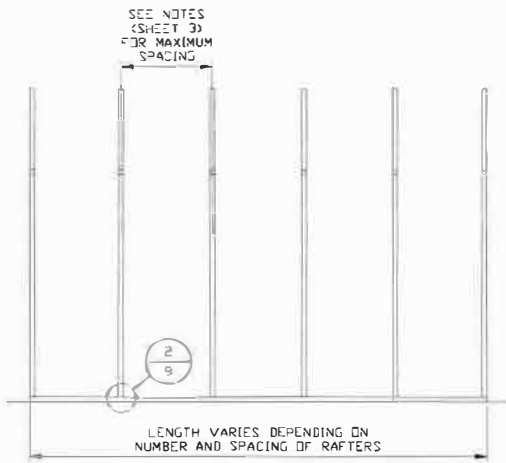
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SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS



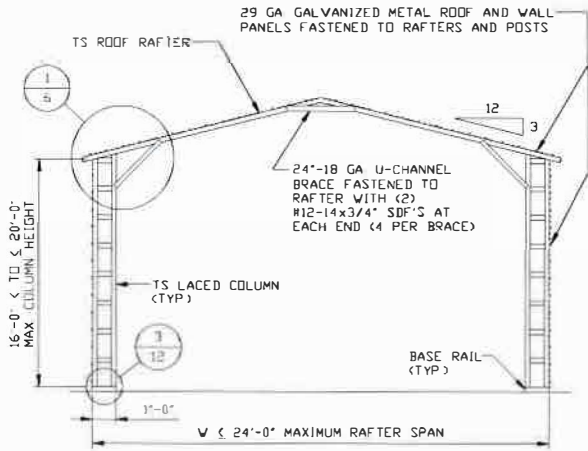
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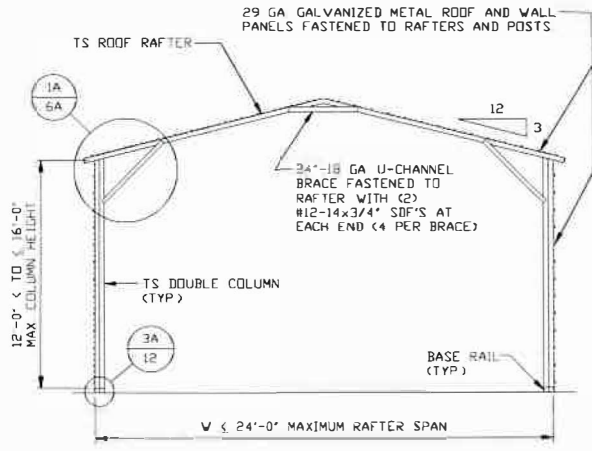
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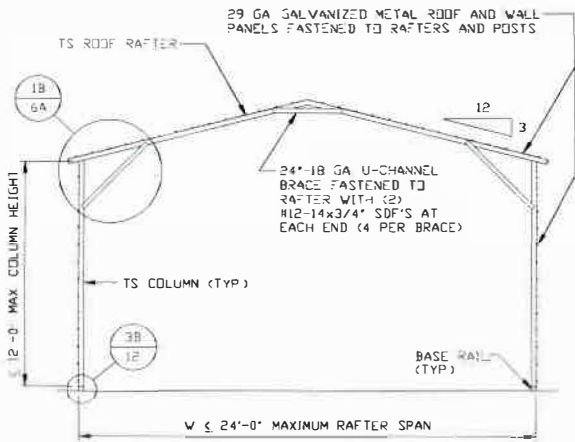
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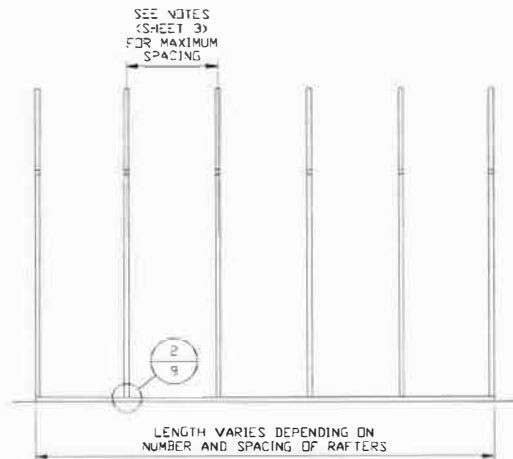
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SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



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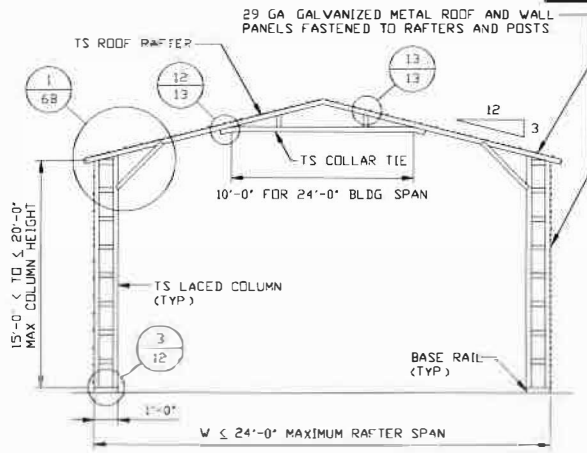
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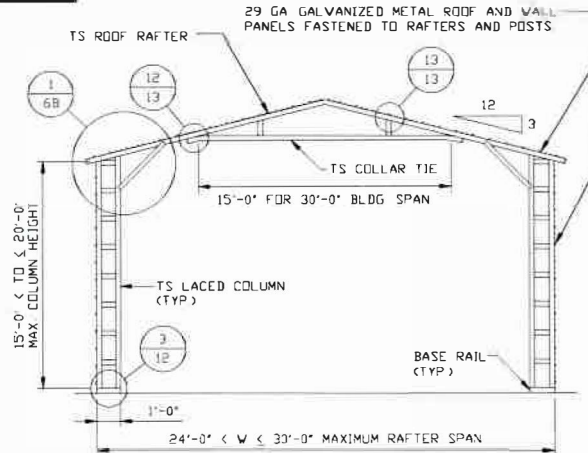
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SHT. 5B **DWG. NO: SK-3** **REV: 0**

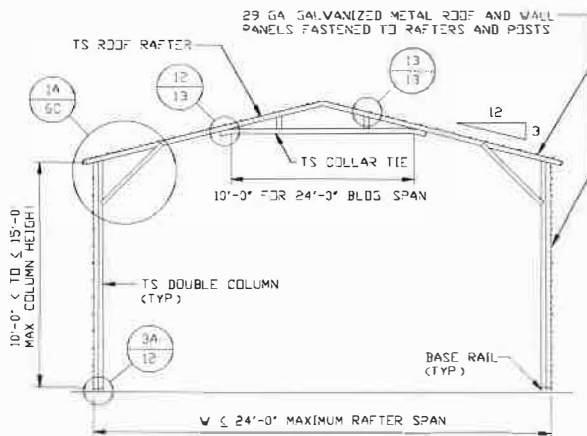
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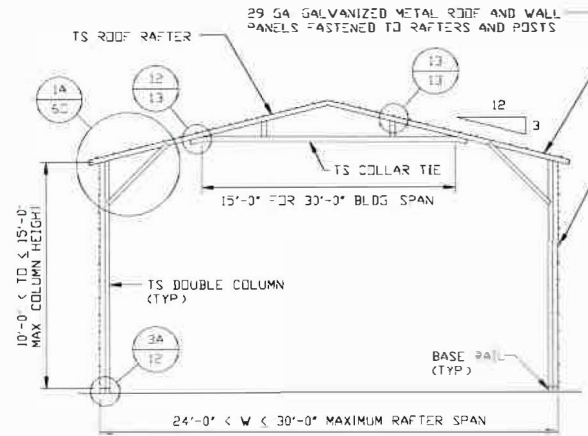
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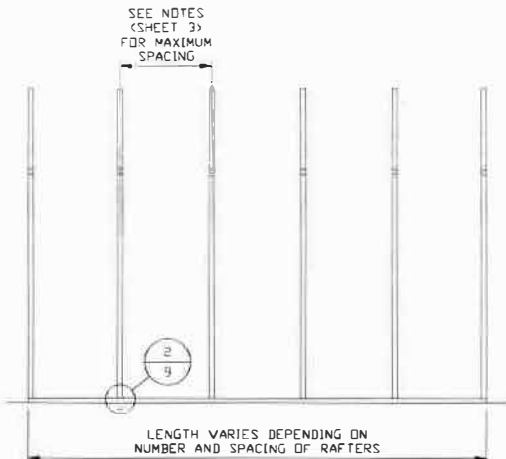
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TYPICAL RAFTER/COLUMN END FRAME SECTION
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TYPICAL RAFTER/COLUMN END FRAME SECTION
 SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
 SCALE: NTS



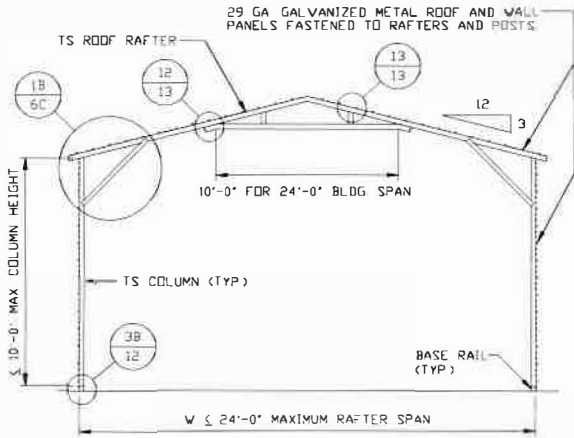
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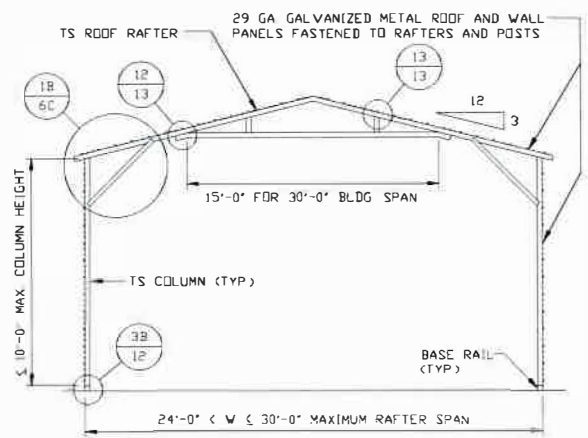
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EXPOSURE C



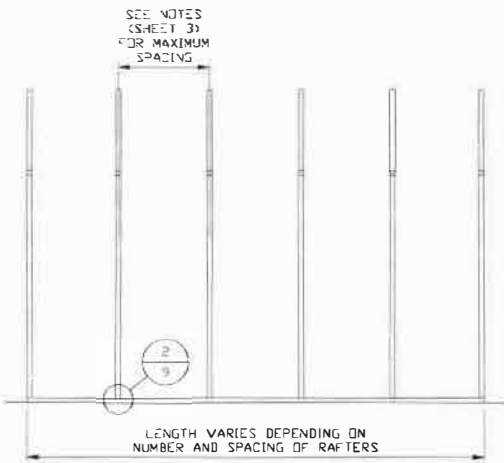
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS



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JOB NO: 19262S

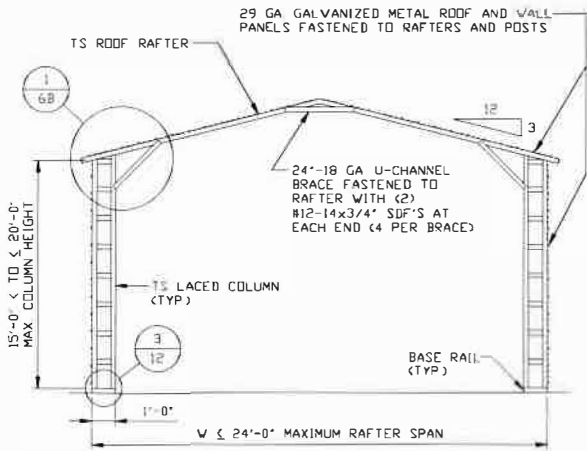
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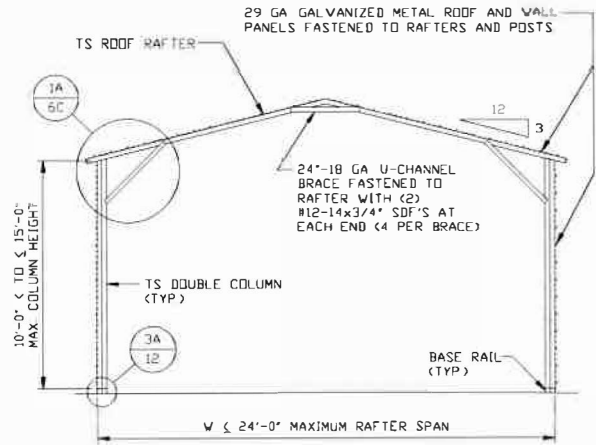
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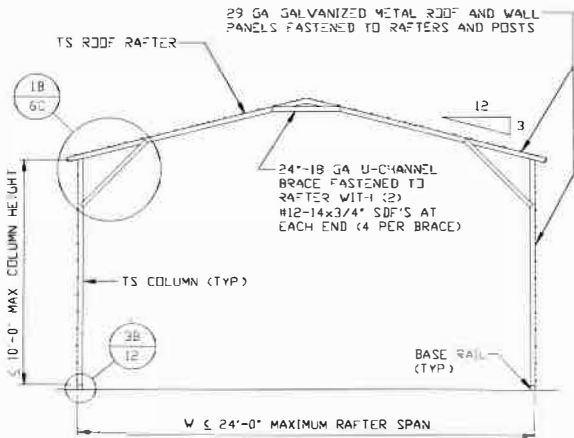
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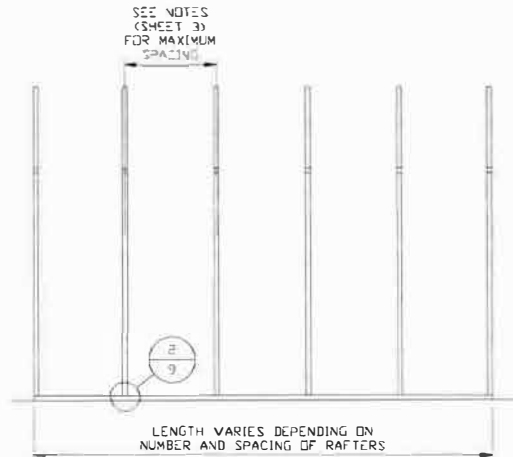
TYPICAL RAFTER/COLUMN END FRAME SECTION
 SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
 SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
 SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
 SCALE: NTS



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30'-0"X20'-0" ENCLOSED STRUCTURE

PROJECT MGR: VSM

DATE: 11-11-19

SCALE: NTS

JOB NO: 19262S

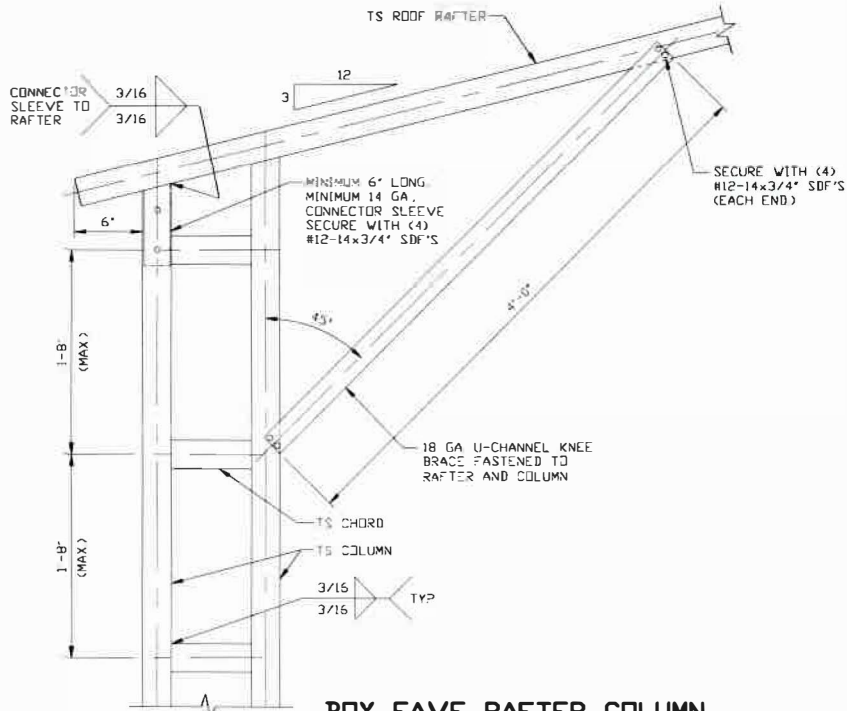
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SHT. 5E

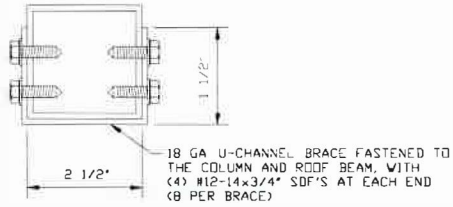
DWG. NO: SK-3

REV: 0

EXPOSURE B



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



BRACE SECTION
SCALE: NTS



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

PROJECT MGR: WSM

DATE: 11-11-19

SCALE: NTS

JOB NO: 19262S

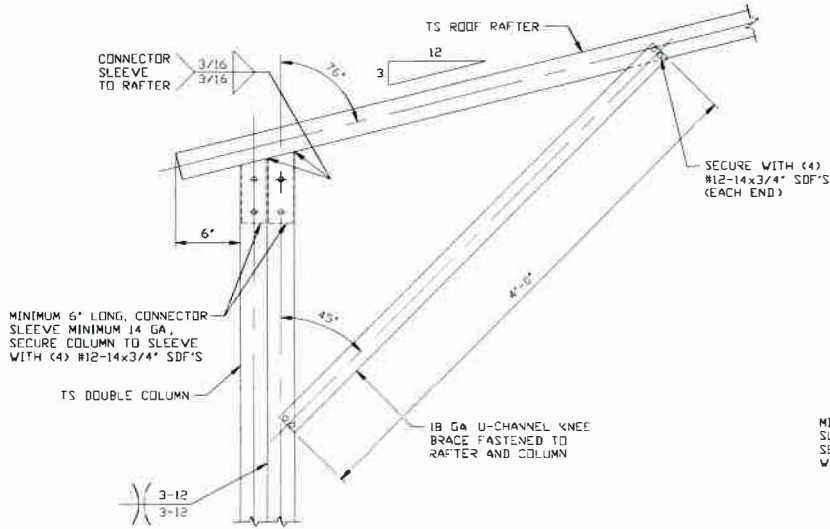
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SHT. 6

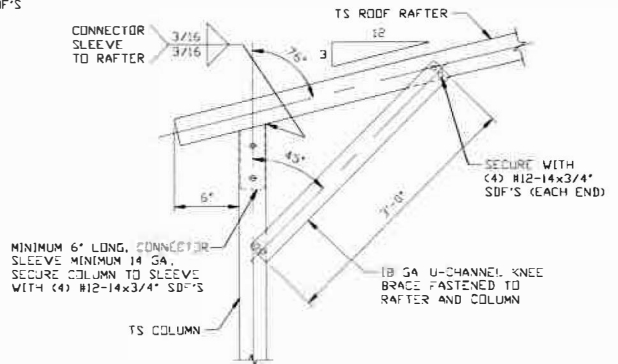
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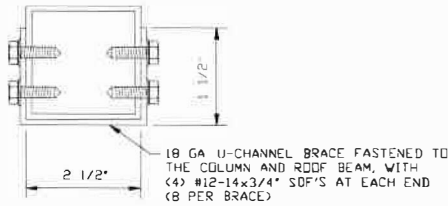
EXPOSURE B



1A
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO <= 16'-0"
SCALE: NTS



1B
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 12'-0"
SCALE: NTS



BRACE SECTION
SCALE: NTS



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

PROJECT MGR: VSM

DATE: 11-11-19

SCALE: NTS

JOB NO: 19262S

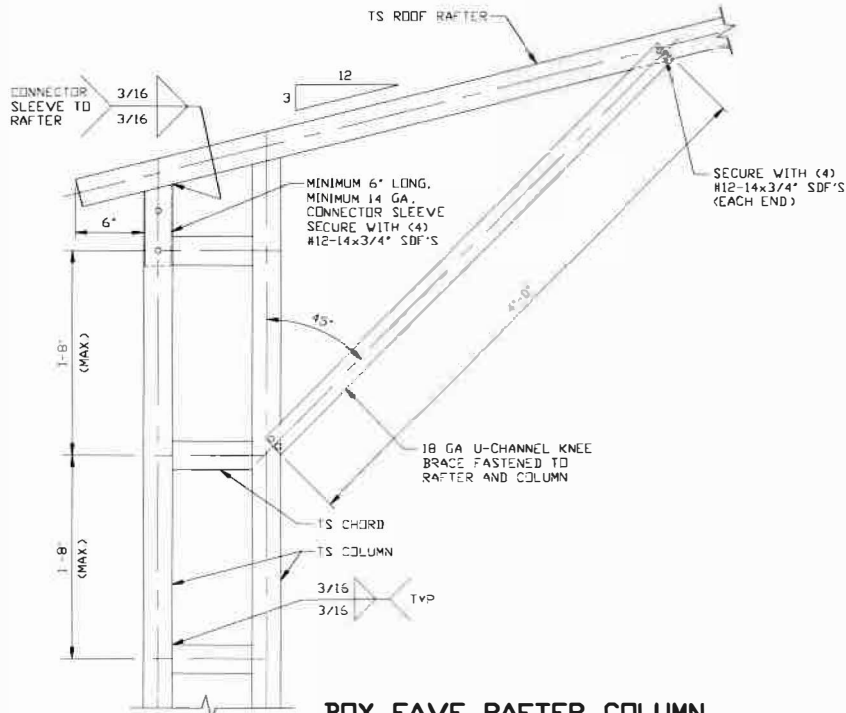
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SHT. 6A

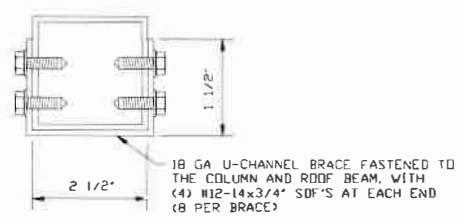
DWG. NO: SK-3

REV: 0

EXPOSURE C



1
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 15'-0" < TO ≤ 20'-0"
 SCALE: NTS



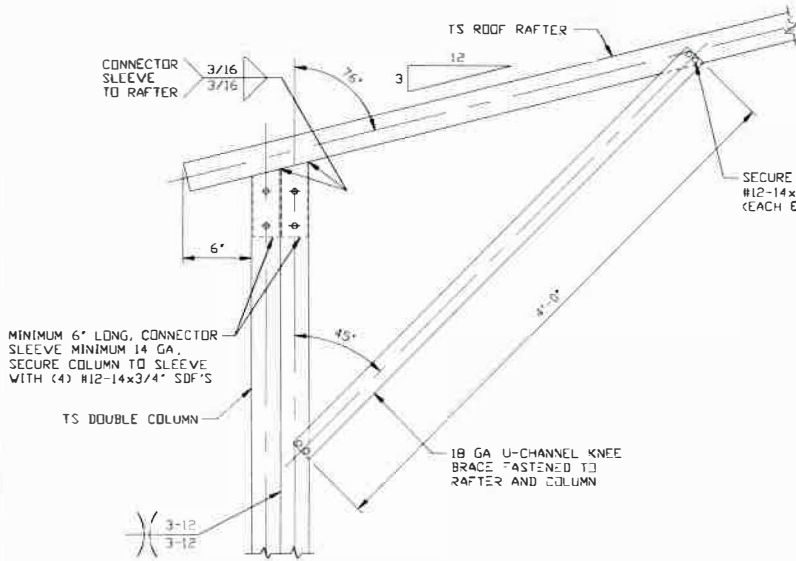
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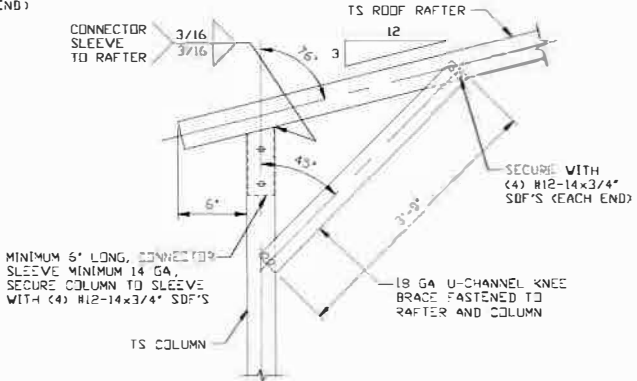
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		SHT. 6B	DWG. NO: SK-3	REV: 0

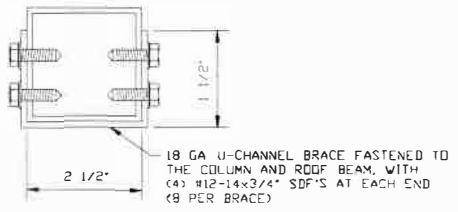
EXPOSURE C



1A
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO < 15'-0"
SCALE: NTS



1B
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS < 10'-0"
SCALE: NTS



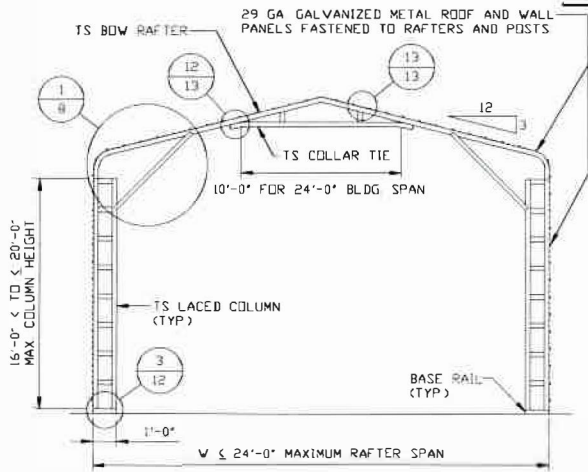
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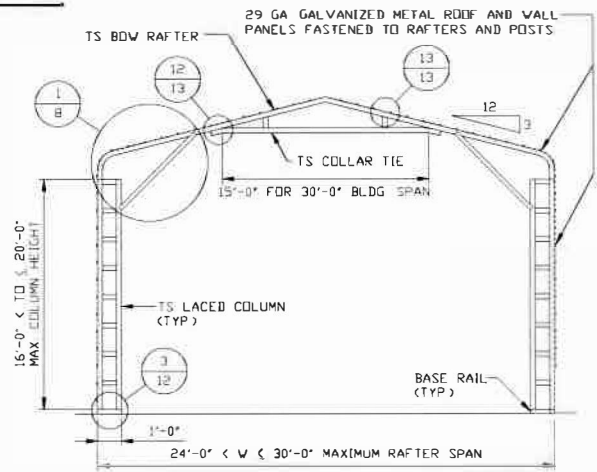
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		SHT. 6C	DWG. NO: SK-3	REV: 0

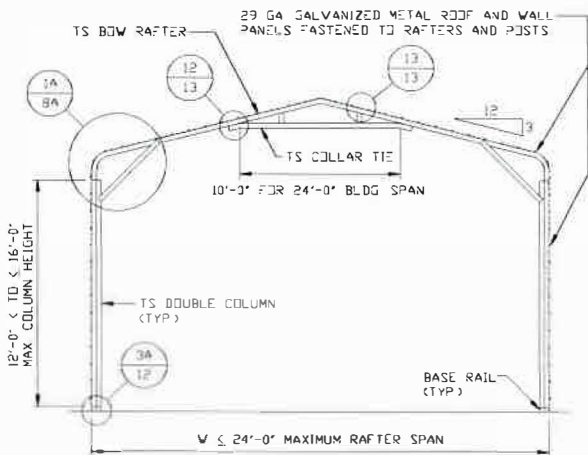
EXPOSURE B



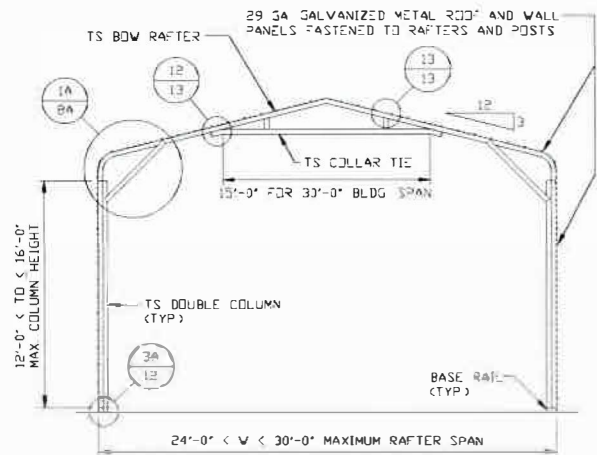
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



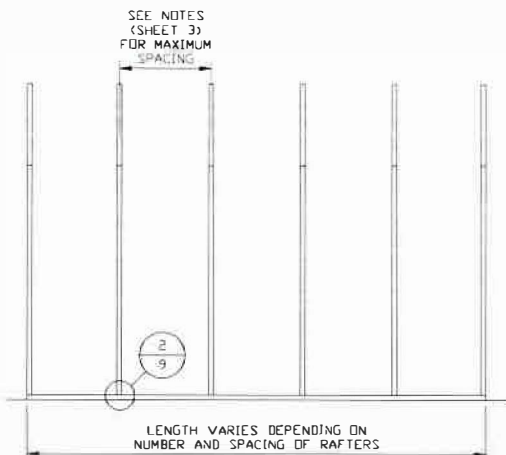
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION
SCALE: NTS



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SCALE: NTS

JOB NO: 19262S

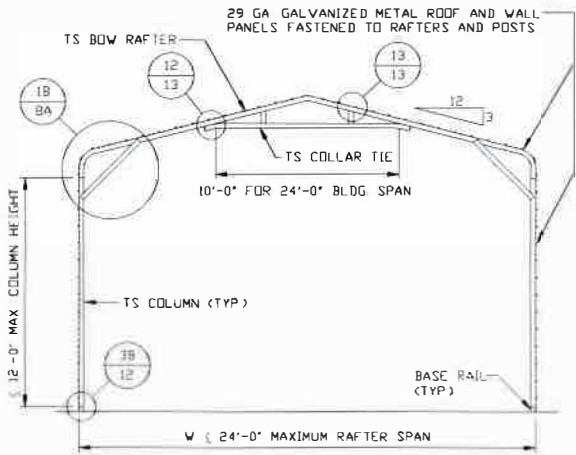
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SHT. 7

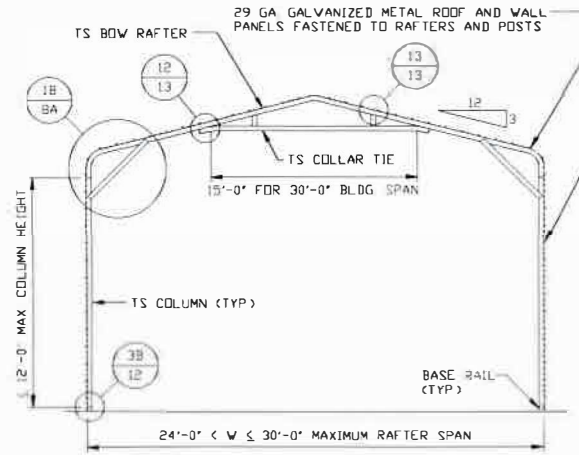
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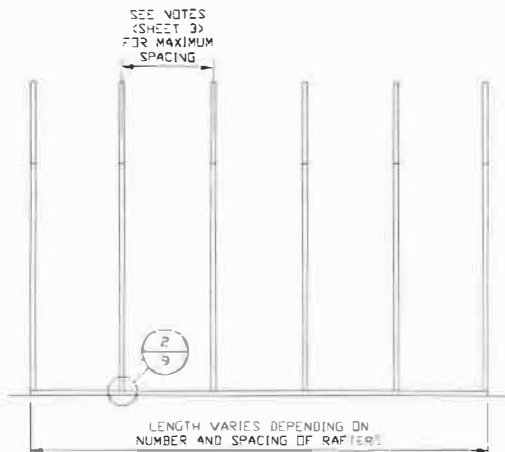
EXPOSURE B



TYPICAL RAFTER/COLUMN END FRAME SECTION
 SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
 SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION
 SCALE: NTS



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SCALE: NTS

JOB NO: 19262S

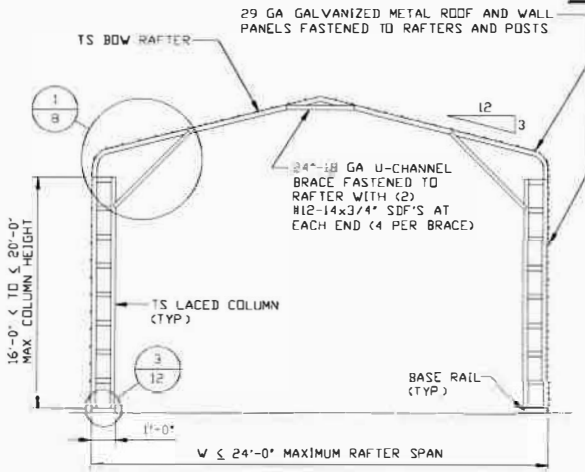
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SHT. 7A

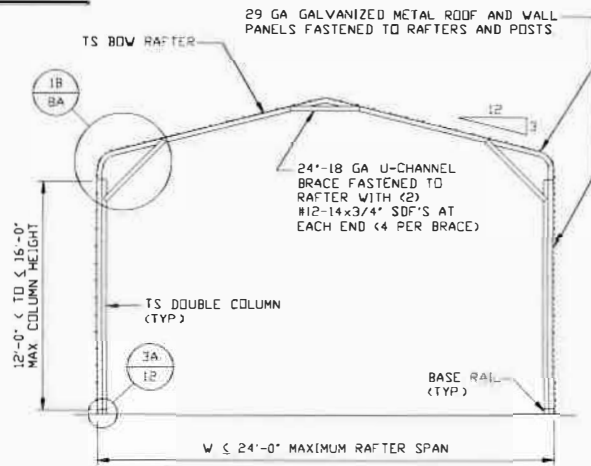
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REV: 0

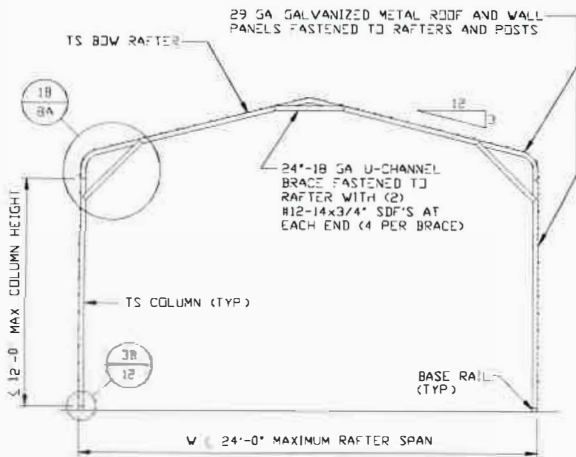
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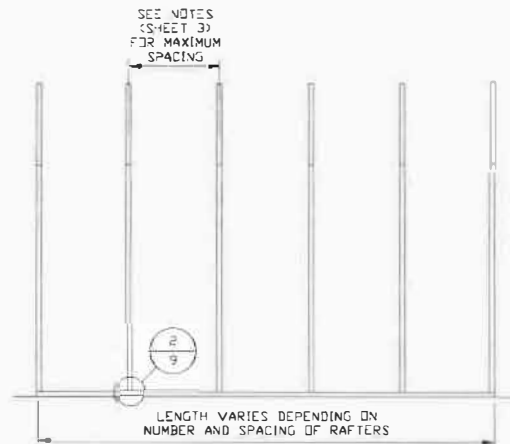
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION
SCALE: NTS



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PROJECT MGR: WSM

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SCALE: NTS

JOB NO: 192625

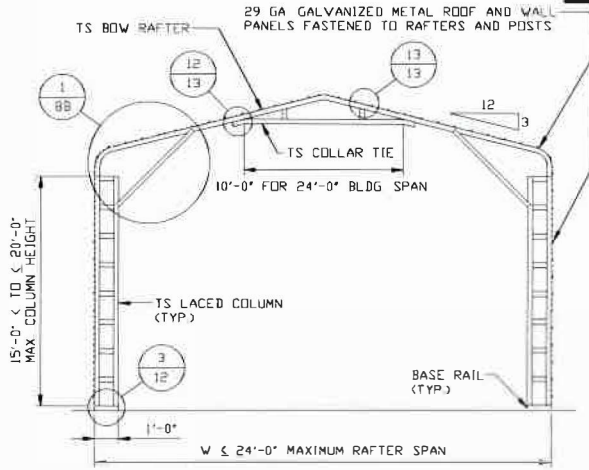
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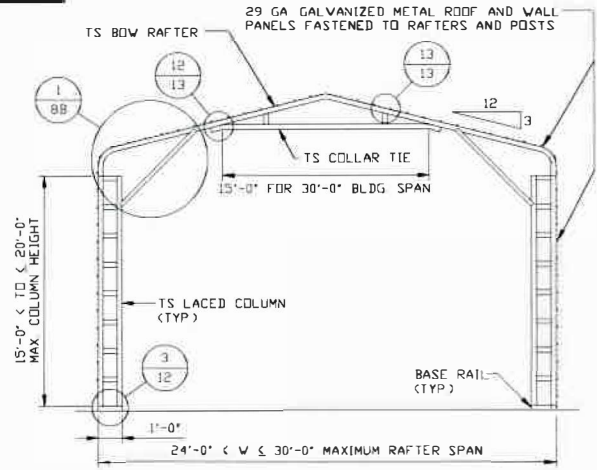
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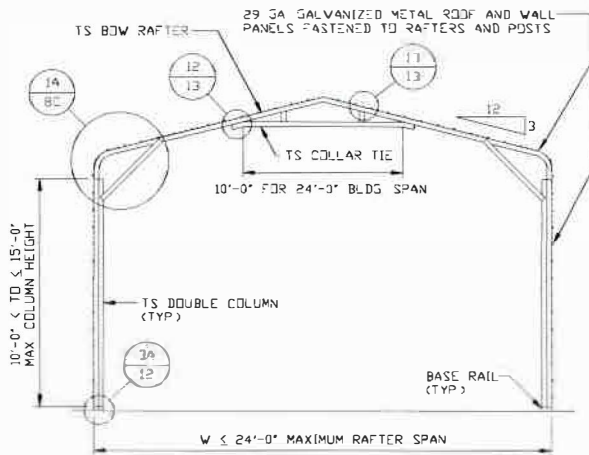
EXPOSURE C



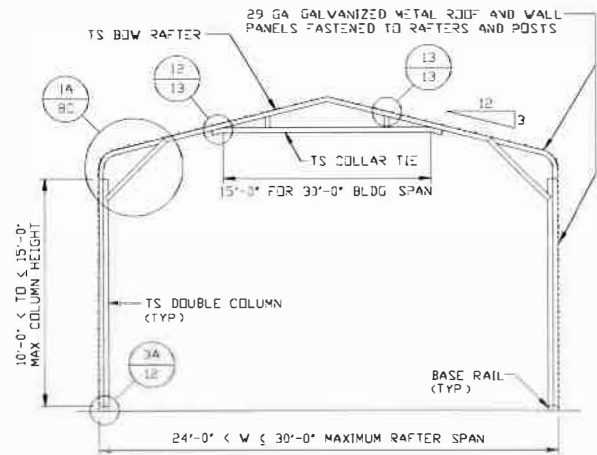
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SCALE: NTS



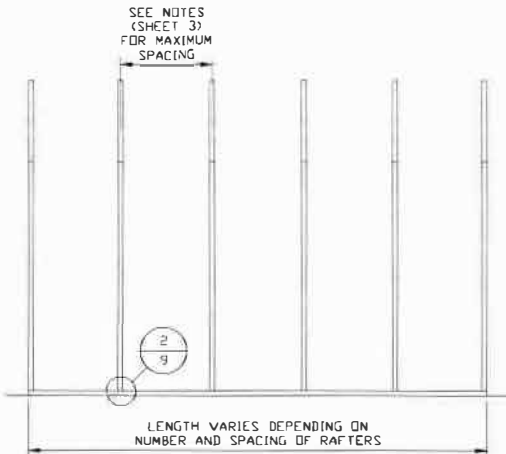
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION
SCALE: NTS



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3'0"-0"x0'-0" ENCLOSED STRUCTURE

DATE: 11-11-19

SCALE: NTS

JOB NO: 19262S

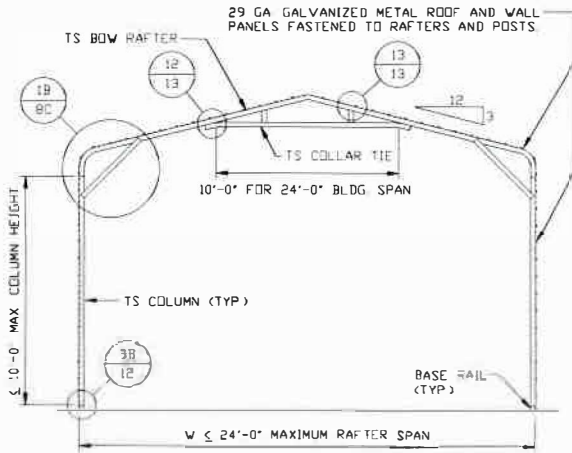
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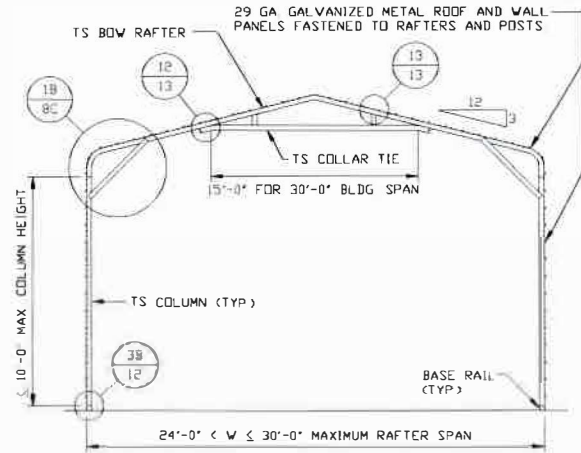
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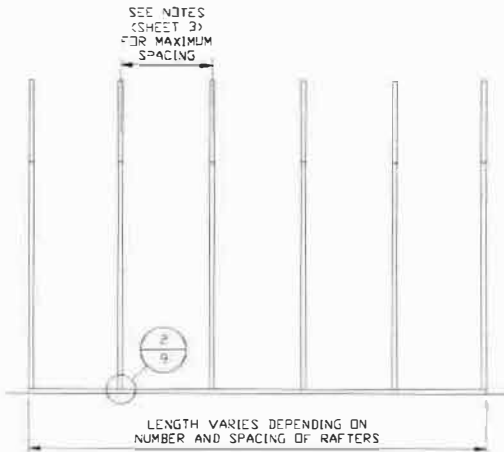
EXPOSURE C



TYPICAL RAFTER/COLUMN END FRAME SECTION
 SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
 SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION
 SCALE: NTS



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

DATE: 11-11-19

SCALE: NTS

JOB NO: 19262S

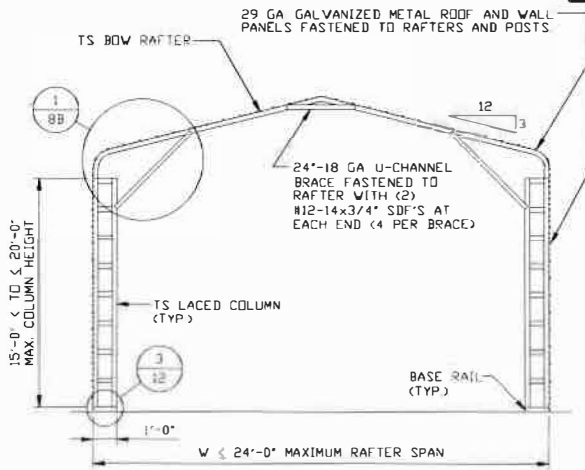
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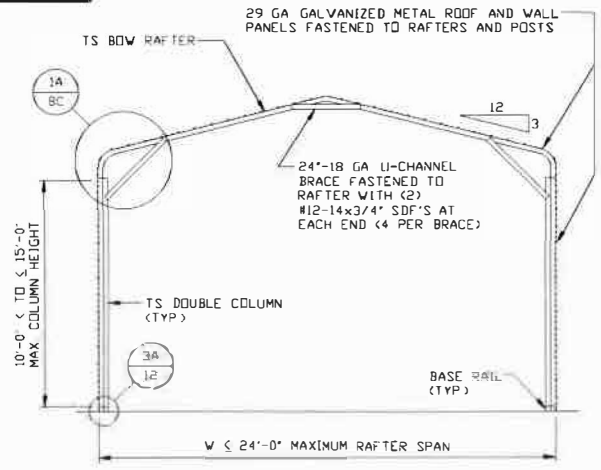
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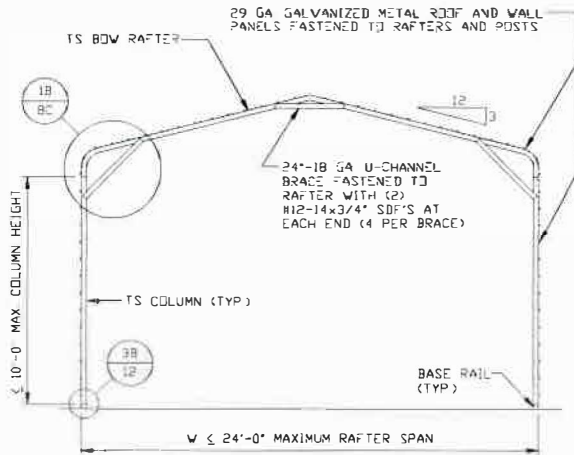
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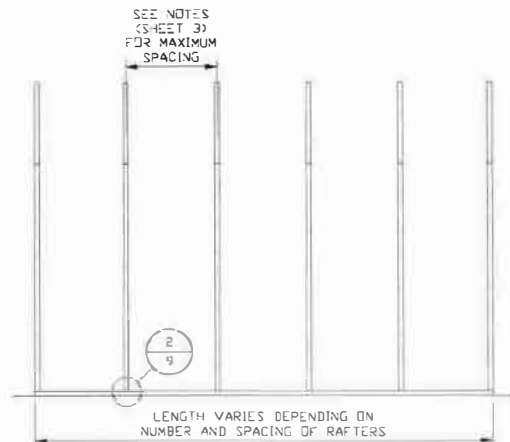
TYPICAL RAFTER/COLUMN END FRAME SECTION
 SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
 SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
 SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION
 SCALE: NTS



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SCALE: NTS

JOB NO: 19262S

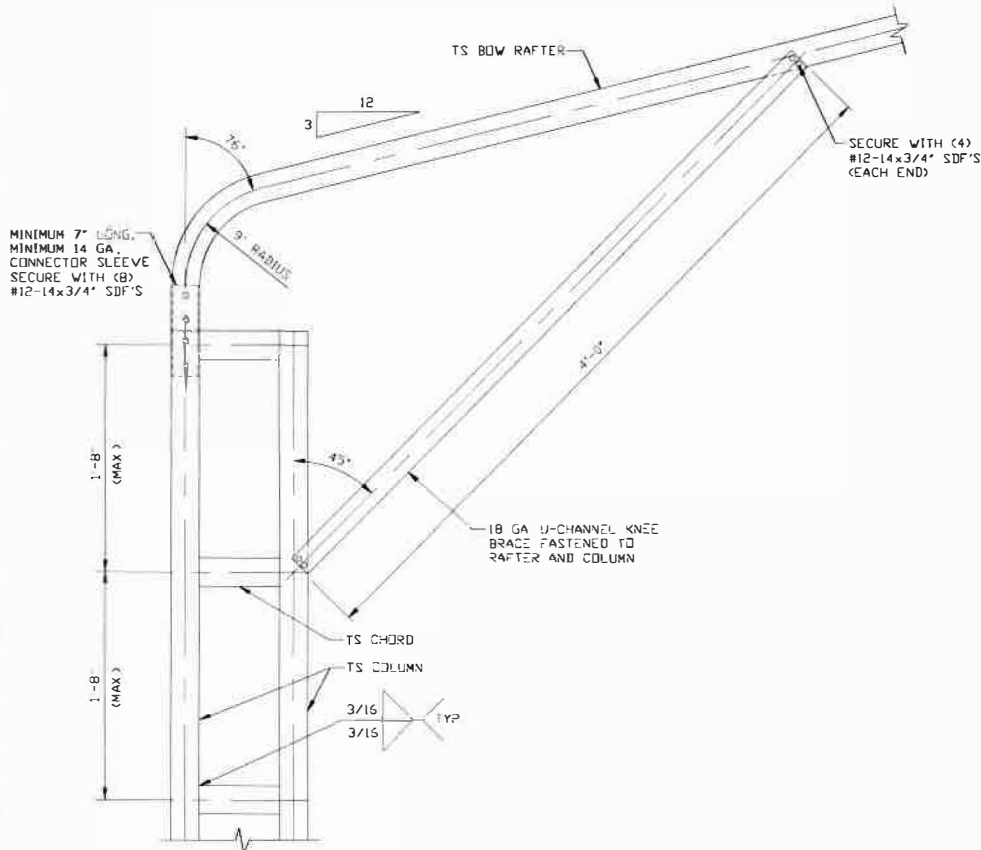
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DWG. NO: SK-3

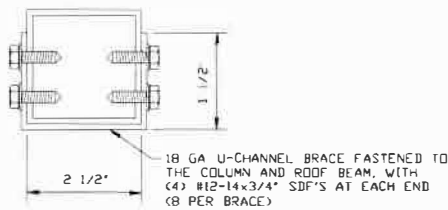
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EXPOSURE B



1 BOW EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 16'-0" < TO ≤ 20'-0"
SCALE: NTS



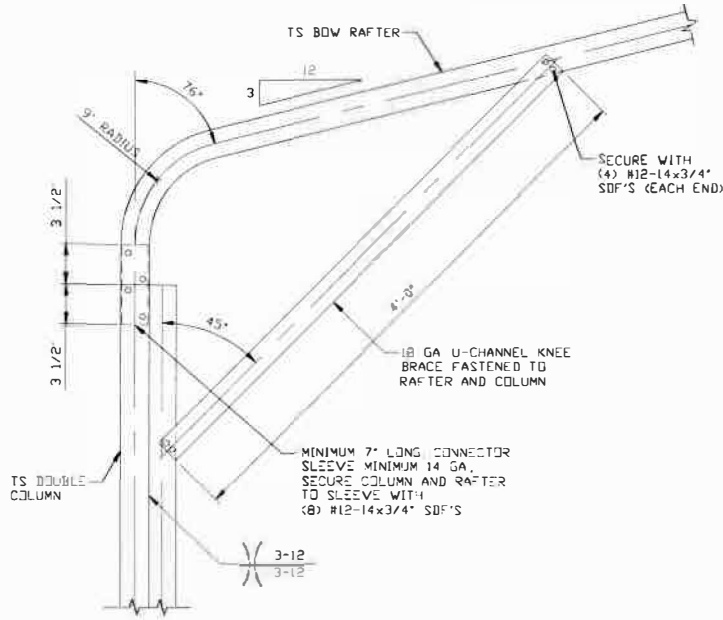
BRACE SECTION
SCALE: NTS



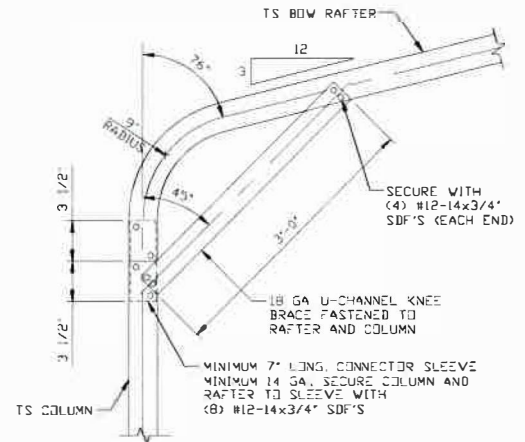
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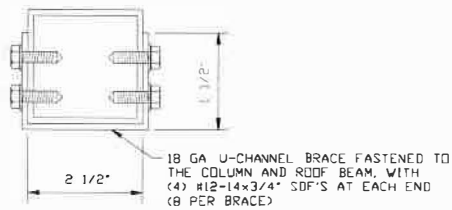
EXPOSURE B



1A BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0"
 SCALE: NTS



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



BRACE SECTION
 SCALE: NTS



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PROJECT MGR: VSM

DATE: 11-11-19

SCALE: NTS

JOB NO: 19262S

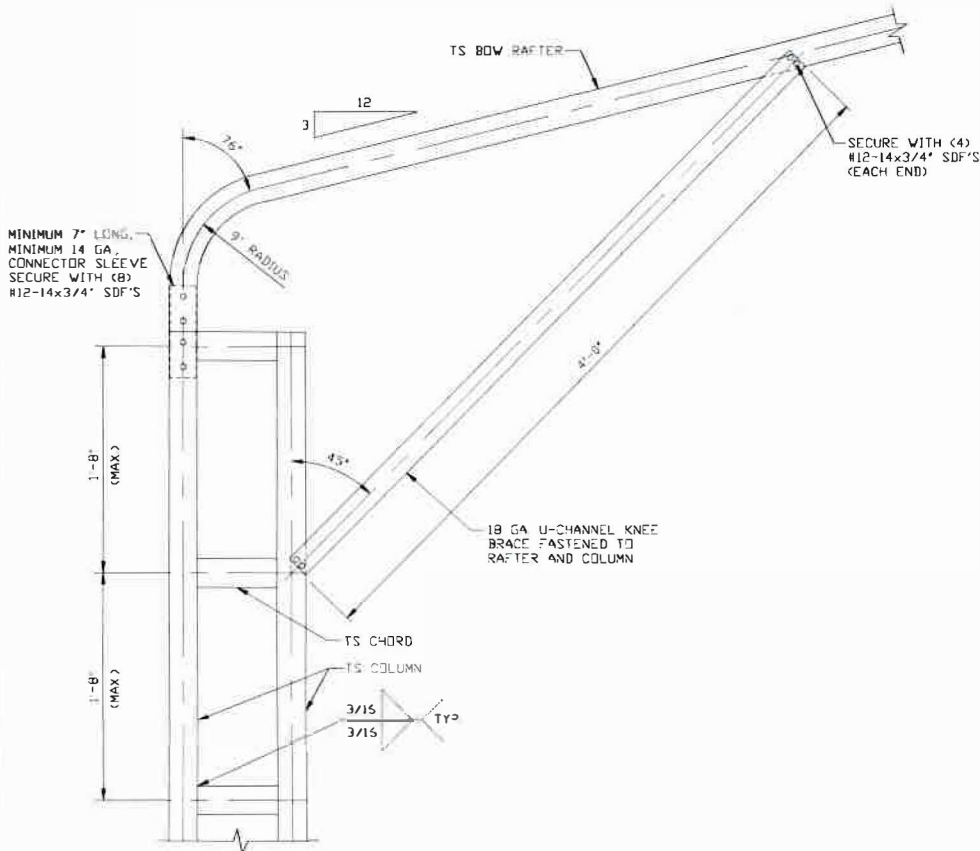
SHT. 8A

DWG. NO: SK-3

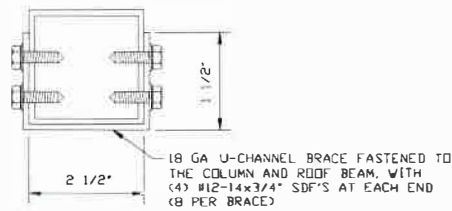
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EXPOSURE C



1 **BOW EAVE RAFTER COLUMN CONNECTION**
DETAIL FOR HEIGHTS 15'-0" < TO ≤ 20'-0"
 SCALE: NTS



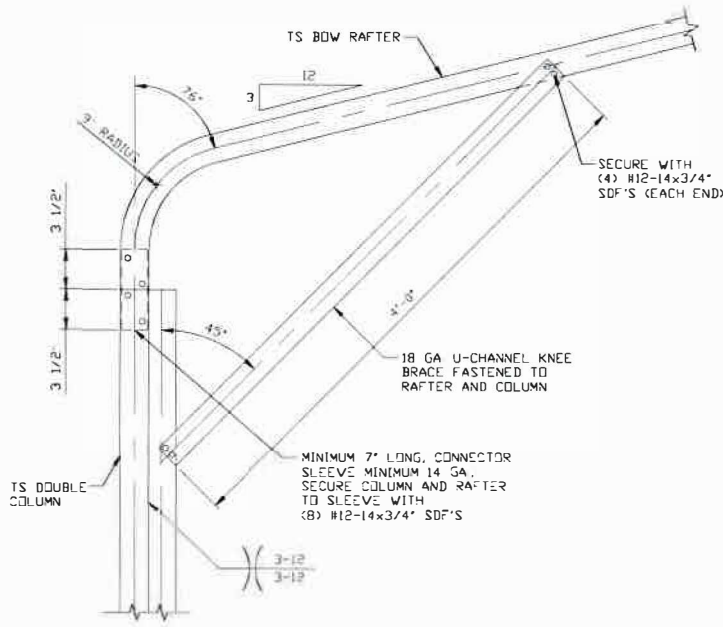
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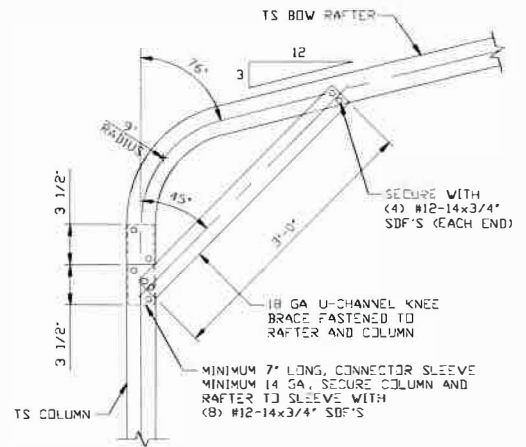
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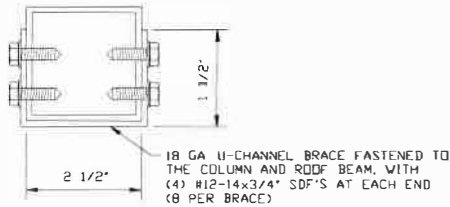
EXPOSURE C



1A
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO < 15'-0"
 SCALE: NTS



1B
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS < 10'-0"
 SCALE: NTS



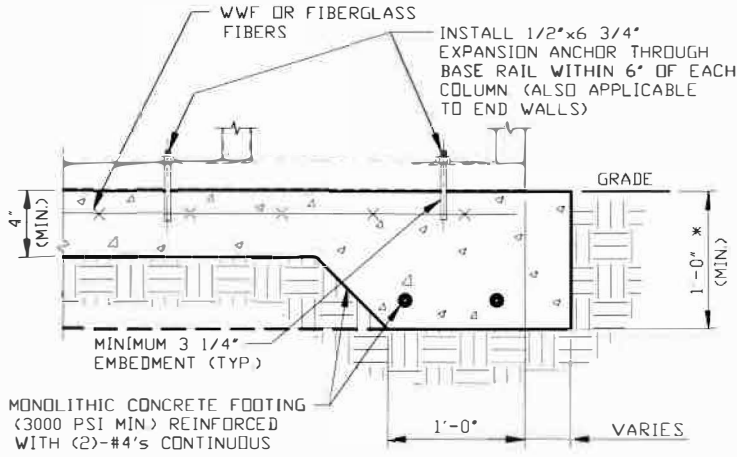
BRACE SECTION
 SCALE: NTS



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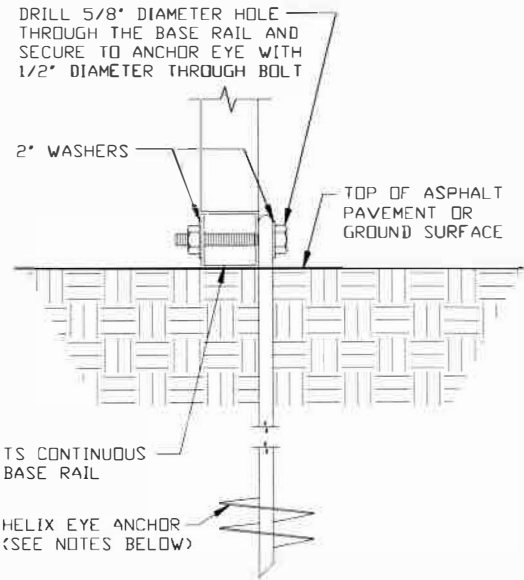
BASE RAIL ANCHORAGE OPTIONS



2A

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4"
* COORDINATE WITH LOCAL BUILDING CODE
AND/OR BUILDING OFFICIAL REGARDING
REQUIRED FOOTING DEPTH



2B

GROUND BASE HELIX ANCHORAGE

SCALE: NTS (CAN BE USED FOR ASPHALT)

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, CALCICHE, 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



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

PROJECT MGR: WSM

DATE: 11-11-19

SCALE: NTS

JOB NO: 19262S

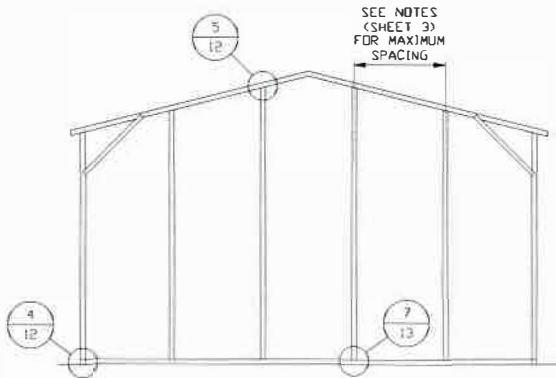
SHT. 9

DWG NO: SK-3

REV: 0

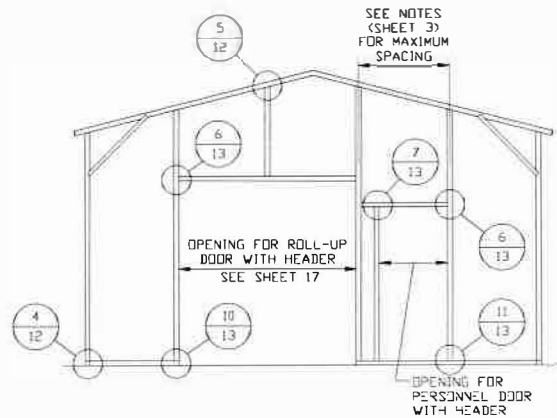
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



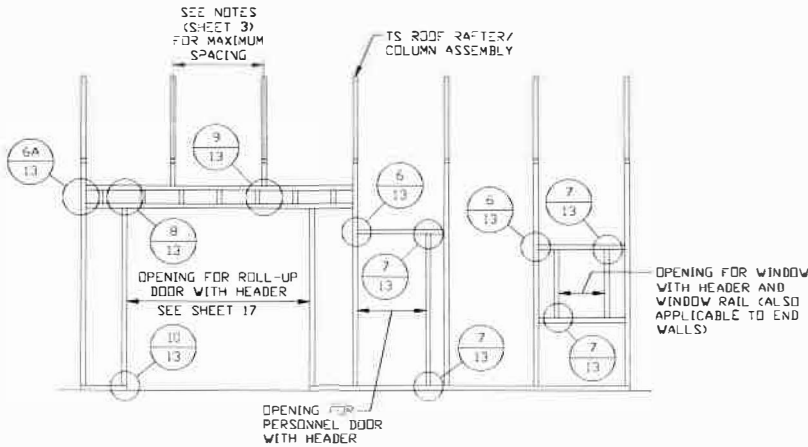
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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

SCALE: NTS



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PROJECT MGR: WSM

30'-0"X20'-0" ENCLOSED STRUCTURE

DATE: 11-11-19

SCALE: NTS

JOB NO: 19262S

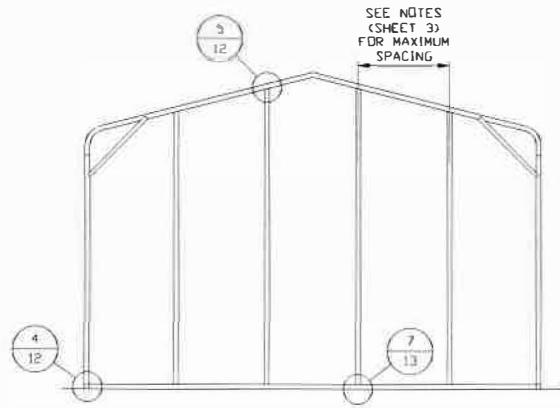
SHT. 10

DWG. NO: SK-3

REV: 0

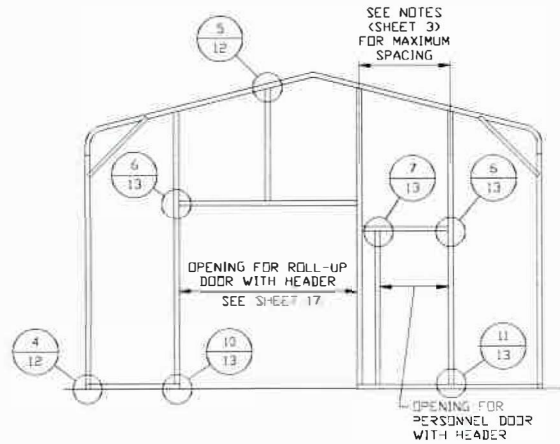
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BOW RAFTER END WALL AND SIDE WALL OPENINGS



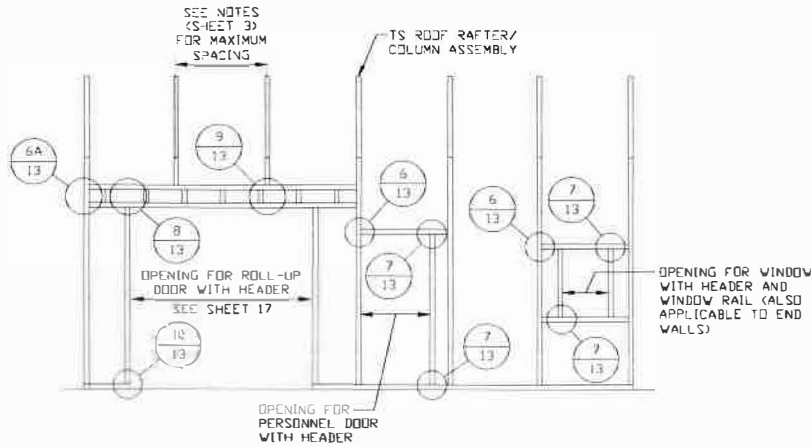
**TYPICAL BOW RAFTER
END WALL FRAMING SECTION**

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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DATE: 11-11-19

SCALE: NTS

JOB NO: 19262S

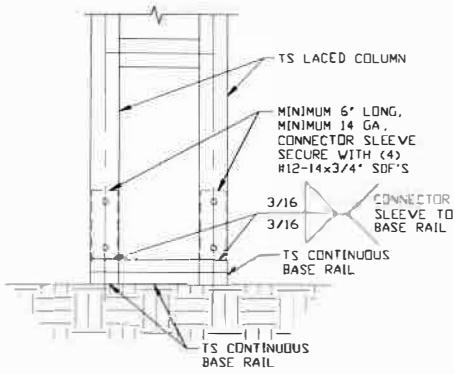
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SHT. 11

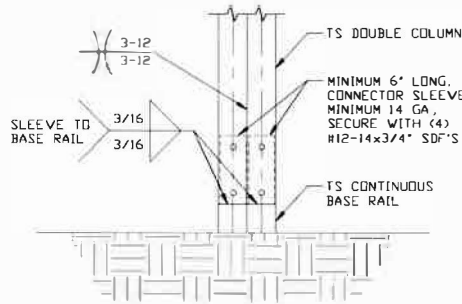
DWG. NO: SK-3

REV.: 0

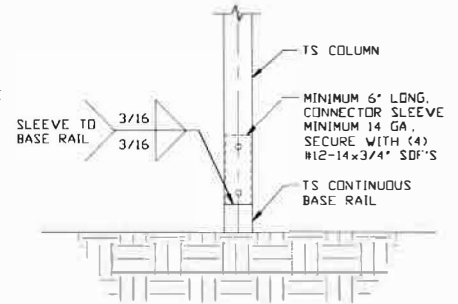
CONNECTION DETAILS



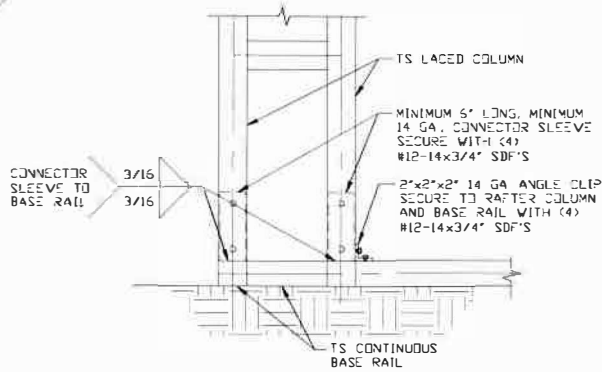
3
**RAFTER COLUMN/
BASE RAIL
CONNECTION DETAIL**
SCALE: NTS



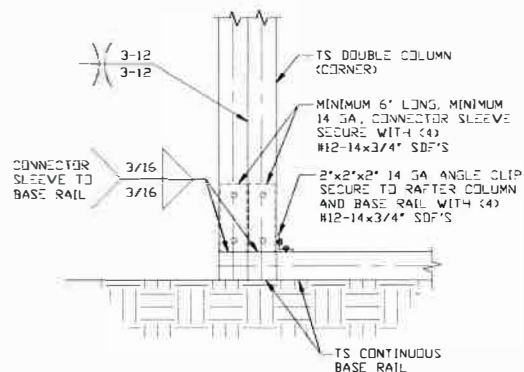
3A
**RAFTER COLUMN/
BASE RAIL
CONNECTION DETAIL**
SCALE: NTS



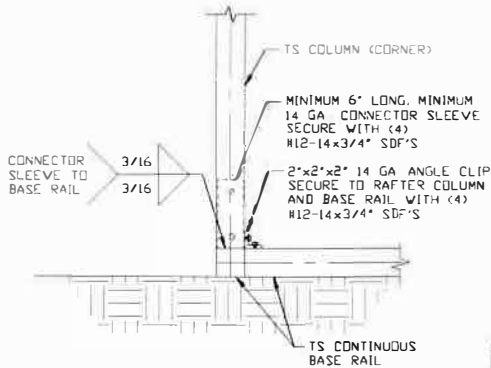
3B
**RAFTER COLUMN/
BASE RAIL
CONNECTION DETAIL**
SCALE: NTS



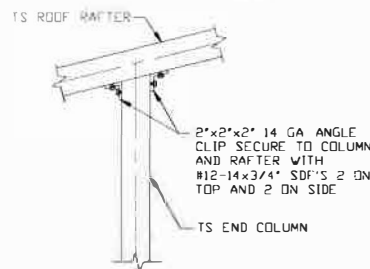
4
**END COLUMN/
BASE RAIL
CONNECTION DETAIL**
SCALE: NTS



4A
**END COLUMN/
BASE RAIL
CONNECTION DETAIL**
SCALE: NTS



4B
**END COLUMN/
BASE RAIL
CONNECTION DETAIL**
SCALE: NTS



5
**END COLUMN/RAFTER
CONNECTION DETAIL**
SCALE: NTS



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SCALE: NTS

JOB NO: 19262S

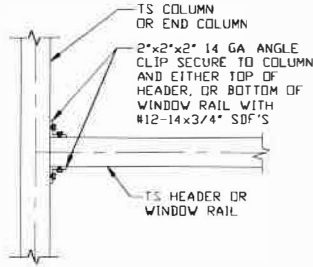
SHT. 12

DWG. NO: SK-3

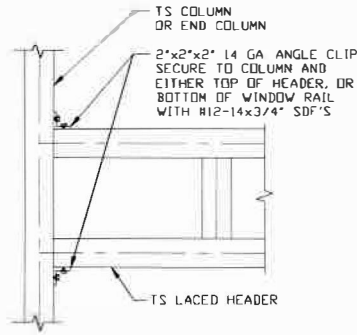
REV: 0

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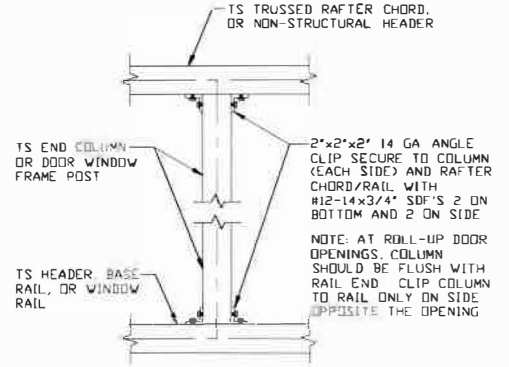
CONNECTION DETAILS



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

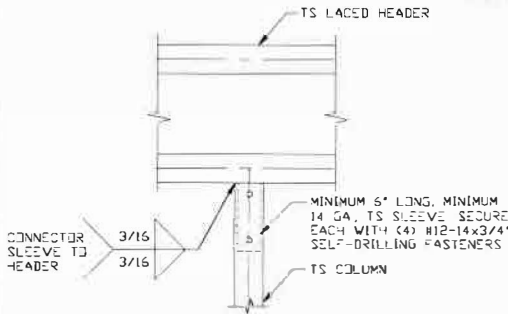


6A LACED HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS

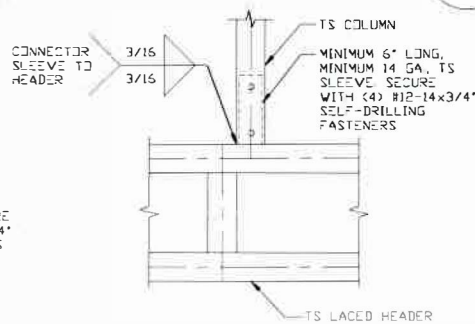


7 COLUMN TO WINDOW RAIL CONNECTION DETAIL
SCALE: NTS

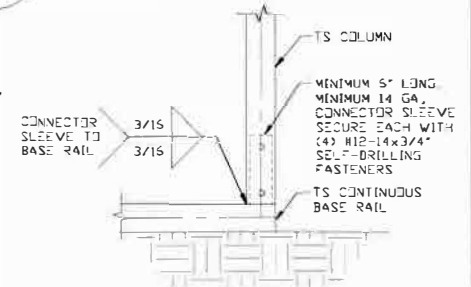
NOTE: AT ROLL-UP DOOR OPENINGS, COLUMN SHOULD BE FLUSH WITH RAIL END CLIP COLUMN TO RAIL ONLY ON SIDE OPPOSITE THE OPENING



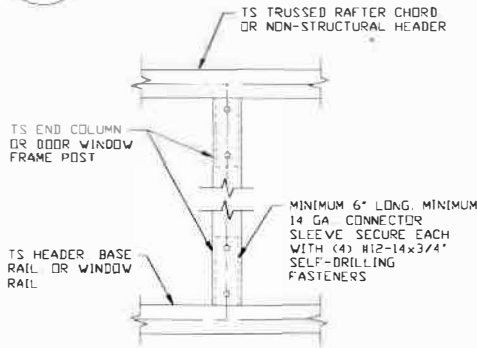
8 LACED HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



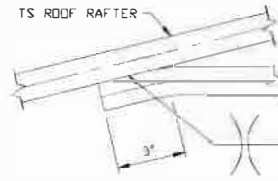
9 COLUMN/LACED HEADER CONNECTION DETAIL
SCALE: NTS



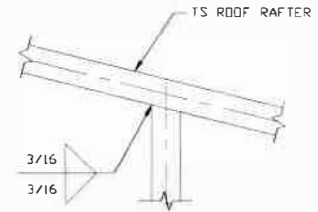
10 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



11 COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL
SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



13 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



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DATE: 11-11-19

SCALE: NTS

JOB NO: 19262S

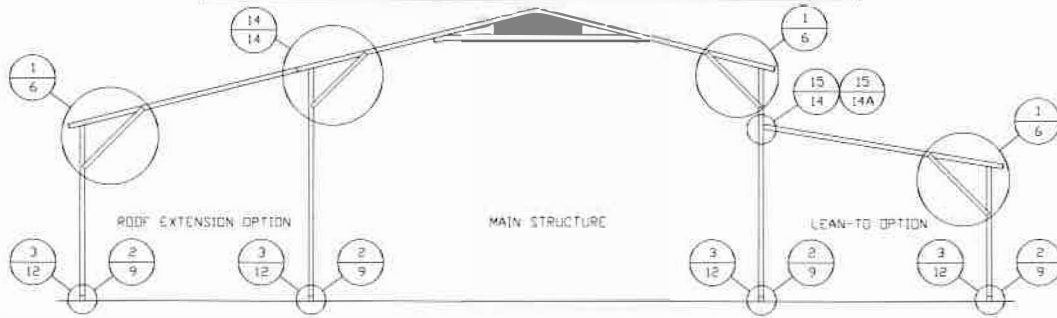
SHT. 13

DWG. NO: SK-3

REV: 0

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BOX EAVE RAFTER LEAN-TO OPTIONS

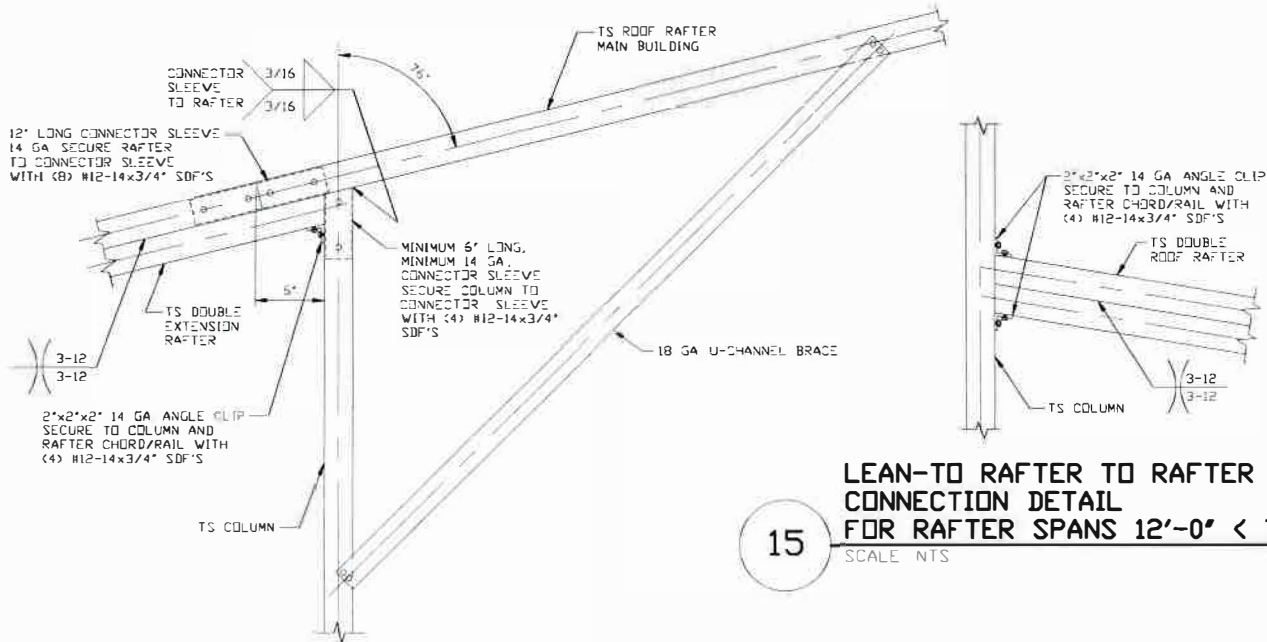


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

MAXIMUM WIDTH OF DOUBLE TUBE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 16'-0"

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

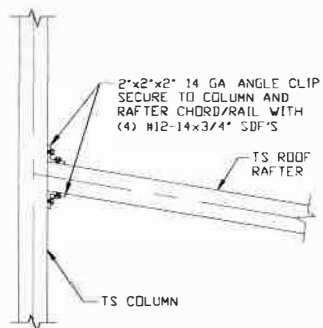


LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0" < TO <= 16'-0"

SCALE: NTS

14 SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS <= 16'-0"

SCALE: NTS



15A LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS <= 12'-0"

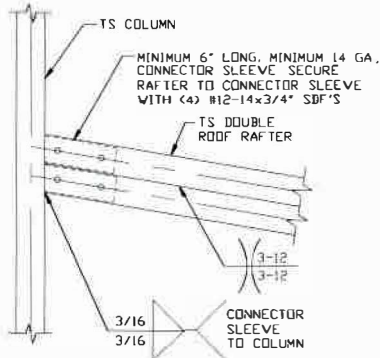
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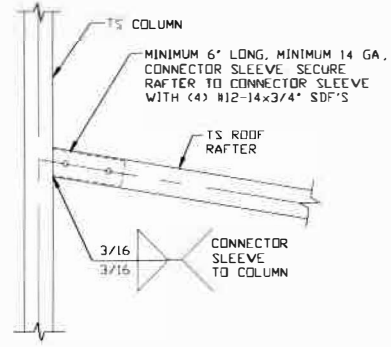
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		SHT. 14	DVG. NO: SK-3	REV: 0

BOX EAVE RAFTER LEAN-TO OPTIONS



15B LEAN-TO RAFTER TO RAFTER COLUMN
CONNECTION DETAIL
FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"
SCALE: NTS



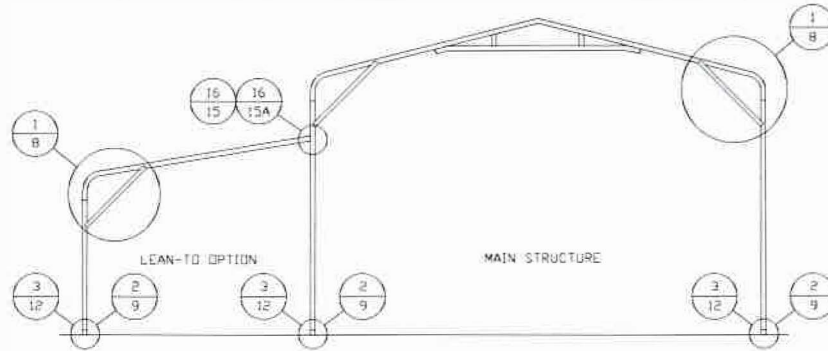
15C LEAN-TO RAFTER TO RAFTER COLUMN
CONNECTION DETAIL
FOR RAFTER SPANS ≤ 12'-0"
SCALE: NTS



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		SHT. 14A	DVG. NO: SK-3	REV: 0

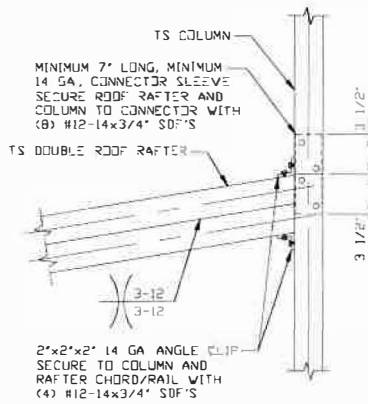
BOW EAVE RAFTER LEAN-TO OPTION



TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

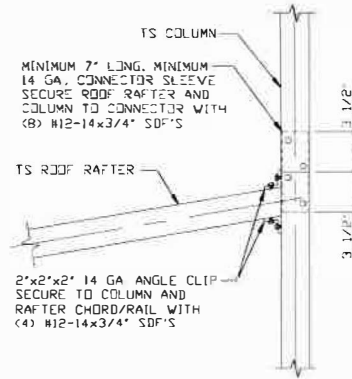
SCALE: NTS

MAXIMUM WIDTH OF DOUBLE TUBE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 16'-0"
MAXIMUM WIDTH OF SINGLE TUBE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 12'-0"



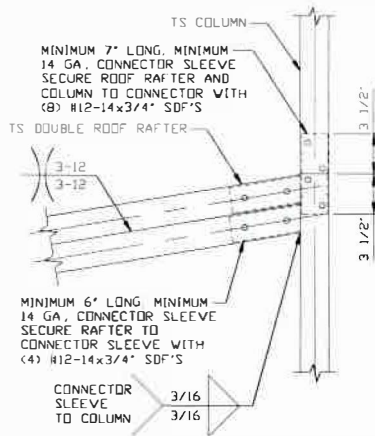
16 LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"

SCALE: NTS



16A LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS ≤ 12'-0"

SCALE: NTS



16B LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"

SCALE: NTS



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PROJECT MGR: VSM

DATE: 11-11-19

SCALE: NTS

JOB NO: 19262S

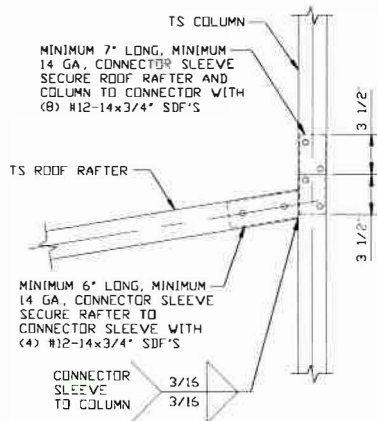
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SHT. 15

DWG. NO: SK-3

REV: 0

BOW EAVE RAFTER LEAN-TO OPTION



**LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS \leq 12'-0"**

16C

SCALE: NTS



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PROJECT MGR: WSH

DATE: 11-11-19

SCALE: NTS

JOB NO: 19262S

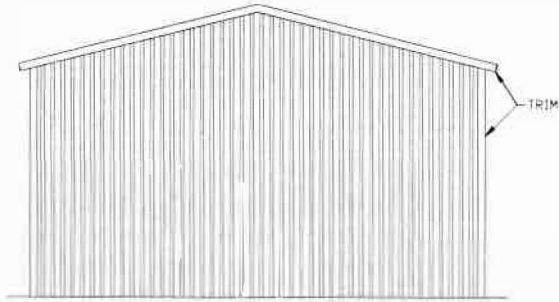
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SHT. 15A

DWG. NO: SK-3

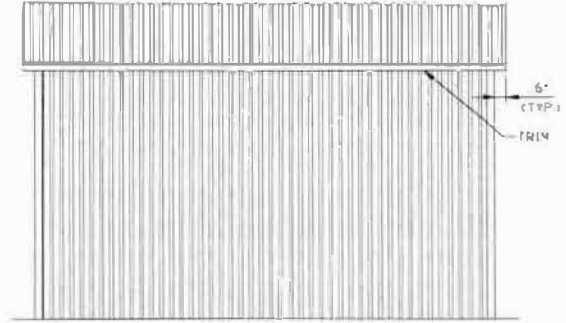
REV: 0

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



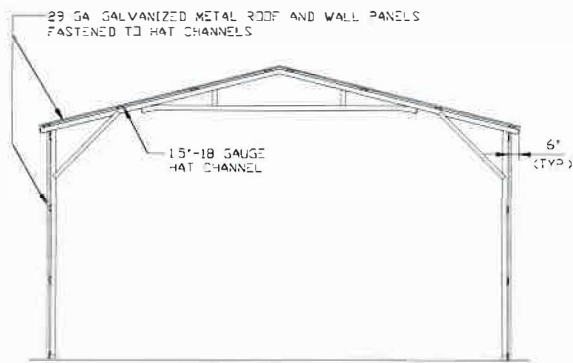
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS



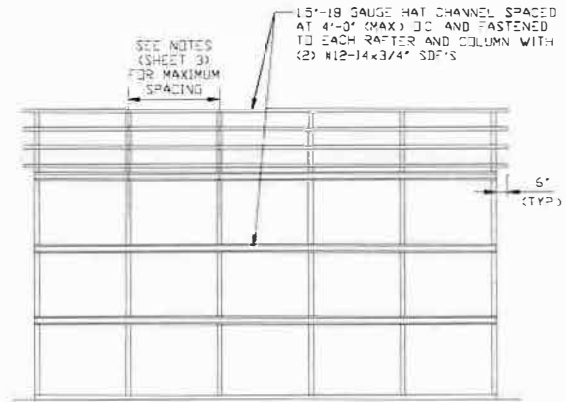
**TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS



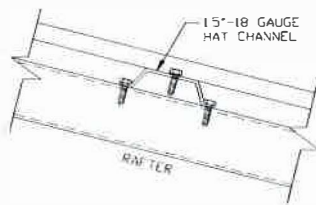
**TYPICAL SECTION VERTICAL
ROOF/SIDING OPTION**

SCALE: NTS



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

SCALE: NTS



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF AND WALL PANELS)
SCALE: NTS



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DATE: 11-11-19

SHT. 16

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

SCALE: NTS

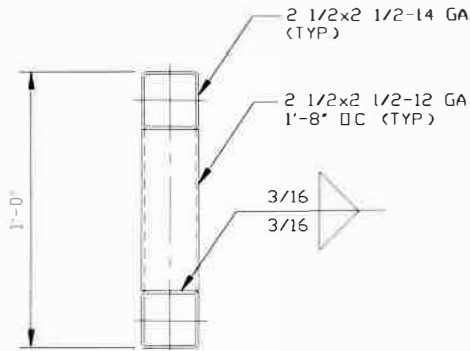
DWG. NO: SK-3

JOB NO: 19262S

REV: 0

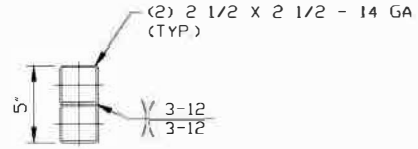
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HEADER OPTION



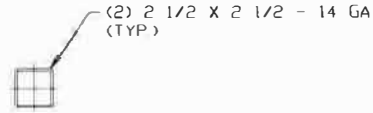
HEADER DETAIL FOR SIDE WALL DOOR OPENINGS $\leq 16'-0''$

SCALE: NTS



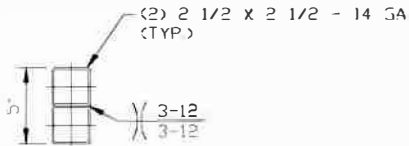
HEADER DETAIL FOR END WALL DOOR OPENINGS $\leq 16'-0''$

SCALE: NTS



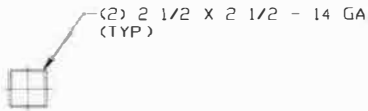
HEADER DETAIL FOR END WALL DOOR OPENINGS $\leq 14'-0''$

SCALE: NTS



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS $\leq 14'-0''$

SCALE: NTS



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS $\leq 8'-0''$

SCALE: NTS



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30' -0"x20' 0" ENCLOSED STRUCTURE

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JOB NO: 19262S

SHT. 17

DWG. NO: SK-3

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