



Buildings & Garages
Pilot Mountain, North Carolina

STRUCTURAL DESIGN
ENCLOSED BUILDING

**MAXIMUM 30'-0" WIDE X 16'-0" EAVE HEIGHT-
BOX EAVE FRAME**

2 September 2020

Revision 4

M&A Project No. 18184S/18348S/19129S/20229S

Prepared for:

**JR Buildings and Garages
316 Nelson Street
Pilot Mountain, NC 27041**

Prepared by:

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

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North Augusta, SC 29841**

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



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PROJECT MGR: WSM

CLIENT: JR BUILDINGS

JR BUILDINGS & GARAGES
316 NELSON STREET
PILOT MOUNTAIN, NC 27041
30'-0"x16'-0" ENCLOSED STRUCTURE

DATE: 9-2-20

SHT. 1

SCALE: NTS

DWG. NO: SK-3

JOB NO: 18184S/
18348S/19129S/20229S

REV: 4

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INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 16'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, 2018 INTERNATIONAL BUILDING CODE (IBC), 2015 IBC, 2012 IBC AND 2009 IBC.
3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 1.5 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 35 PSF
 - = 30 PSF (W ≤ 24'-0" WITH U-CHANNEL COLLAR TIE)
 - * DIFFERENTIAL LOADING DUE TO SNOW DRIFT NOT ANALYZED.
4. ULTIMATE 3-SECOND GUST 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 AND SIDEWALL COLUMNS/POSTS AND ARE SIMILAR 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 #12-14x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 16 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 30" LONG. SOIL NAILS MAY BE USED FOR WIND SPEEDS ≤ 145 MPH AND IN SUITABLE SOIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED. COORDINATE WITH LOCAL CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION.
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_sW
 - S_{D1} = 1.258 g

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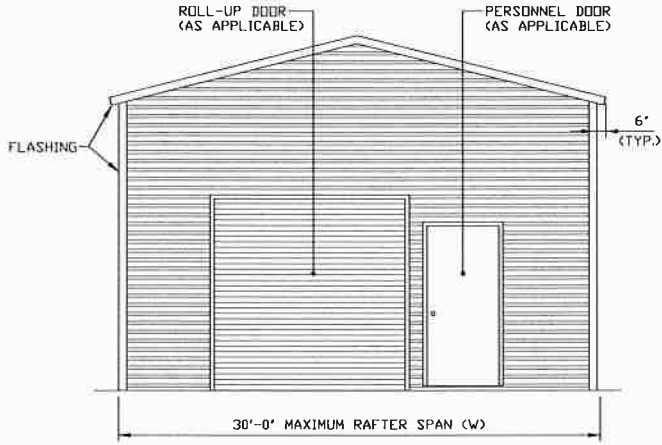
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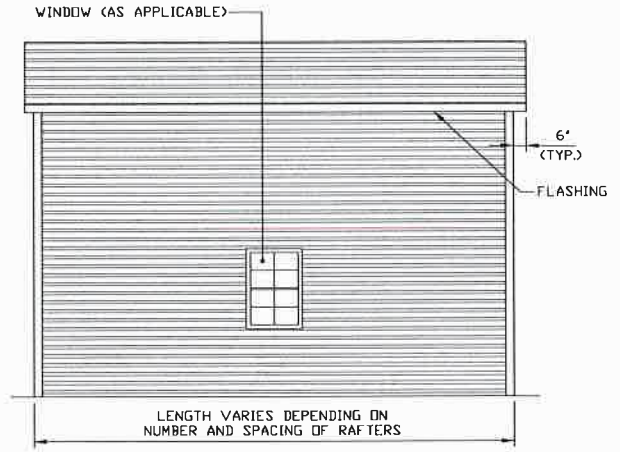
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BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

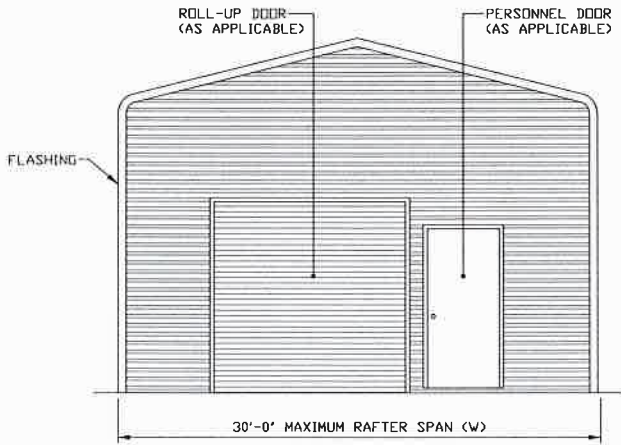
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TYPICAL SIDE ELEVATION

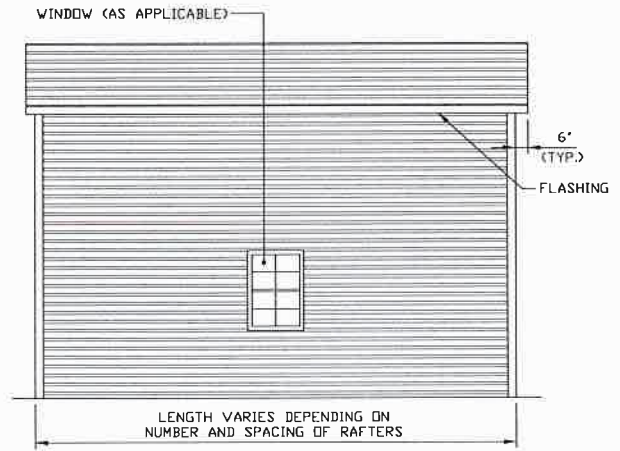
SCALE: NTS

BOW EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

SCALE: NTS



TYPICAL SIDE ELEVATION

SCALE: NTS

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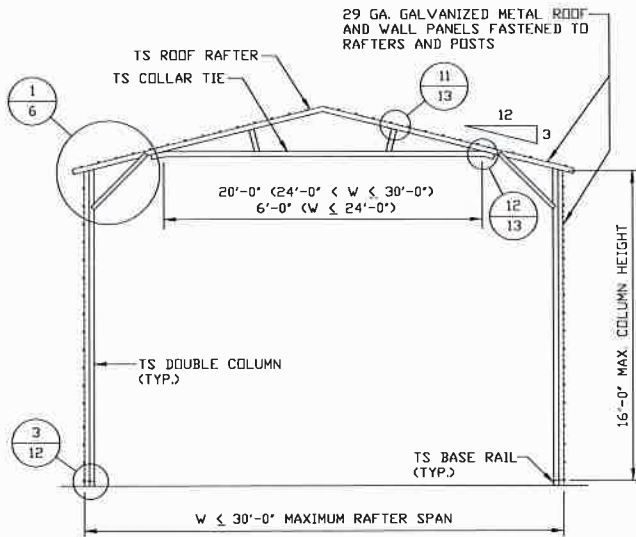
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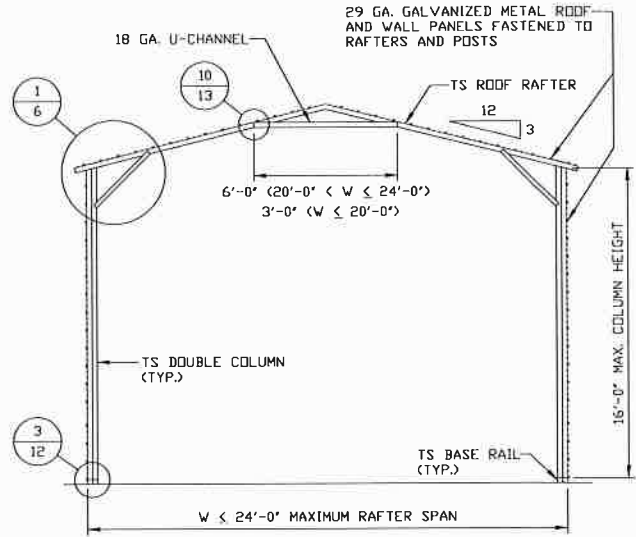
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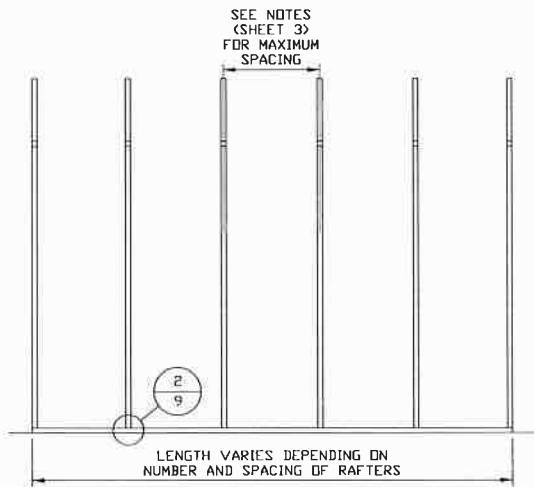
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

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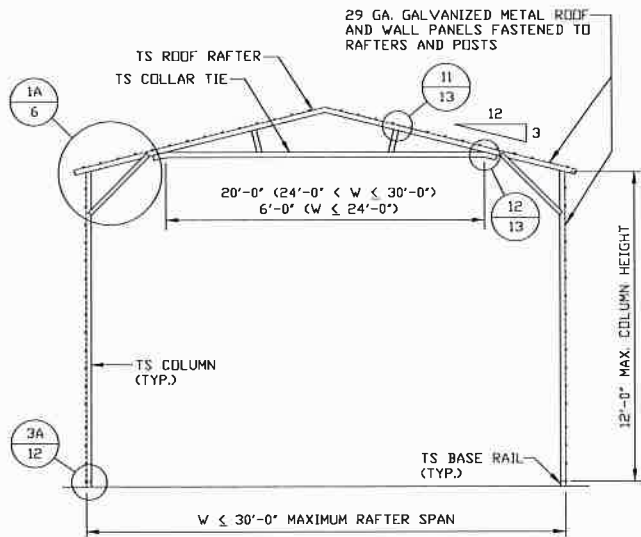
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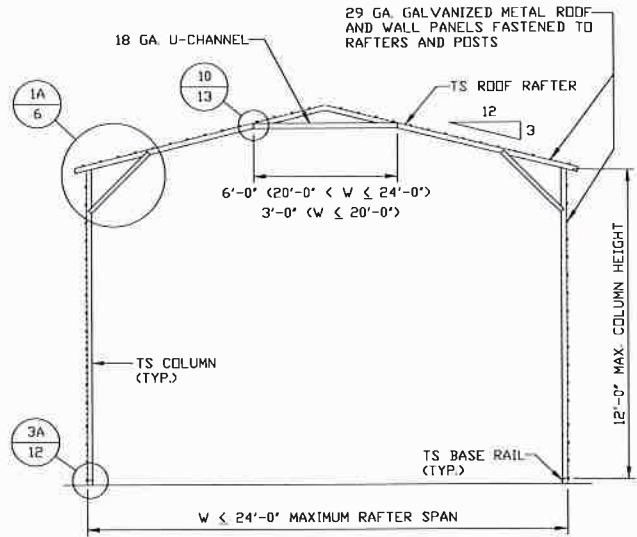
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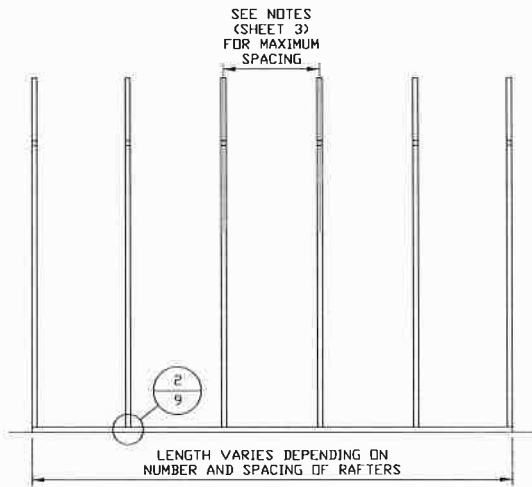
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

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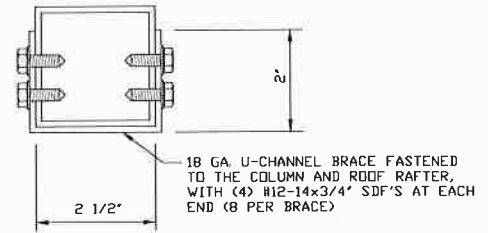
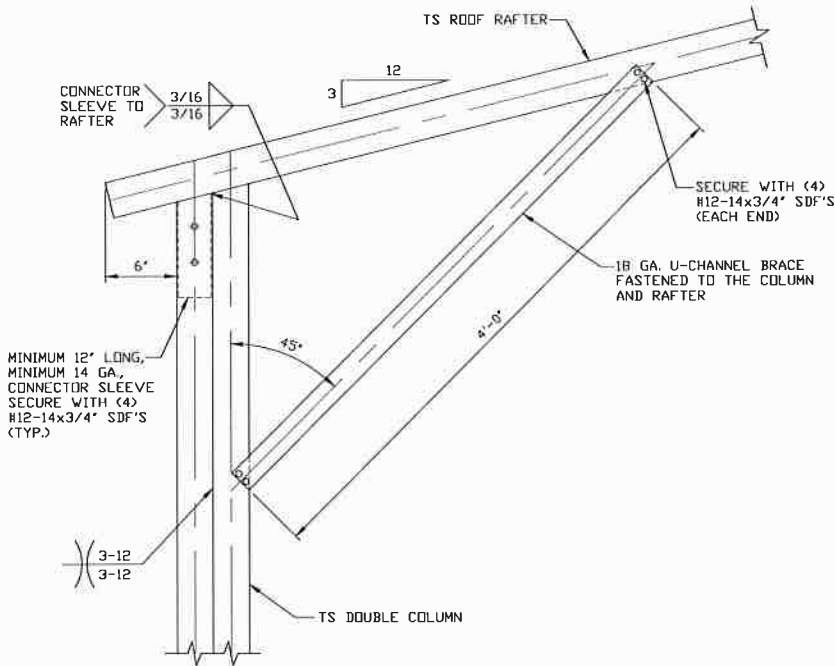
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SCALE: NTS

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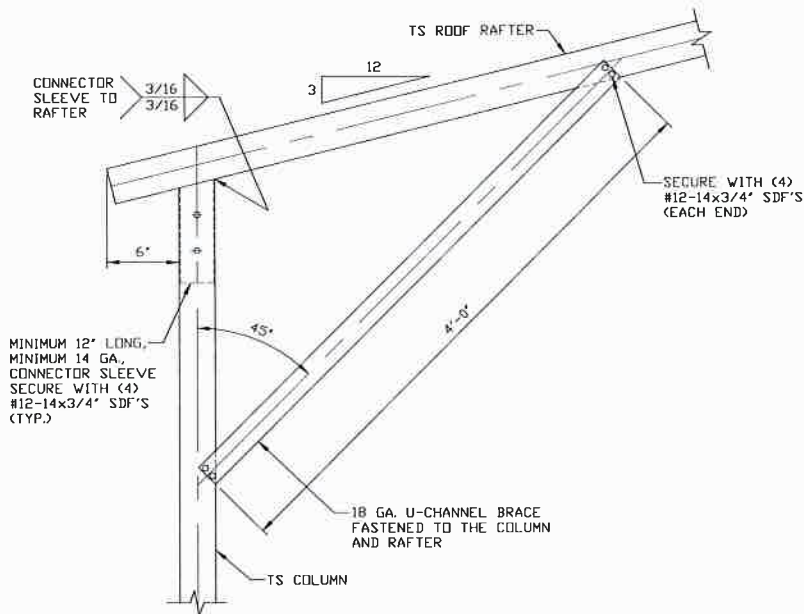
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BRACE SECTION
SCALE: NTS

1
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL
FOR HEIGHTS 12'-0" < TO ≤ 16'-0"
SCALE: NTS
NOTE: 2'-0" KNEE BRACE MAY BE USED FOR BUILDING WIDTHS ≤ 24'-0".



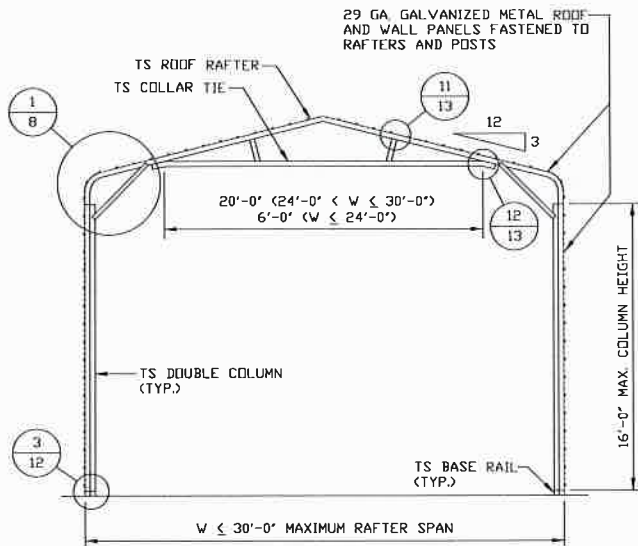
1A
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL
FOR HEIGHTS ≤ 12'-0"
SCALE: NTS
NOTE: 2'-0" KNEE BRACE MAY BE USED FOR BUILDING WIDTHS ≤ 24'-0" AND ≤ 11'-0" EAVE HEIGHT

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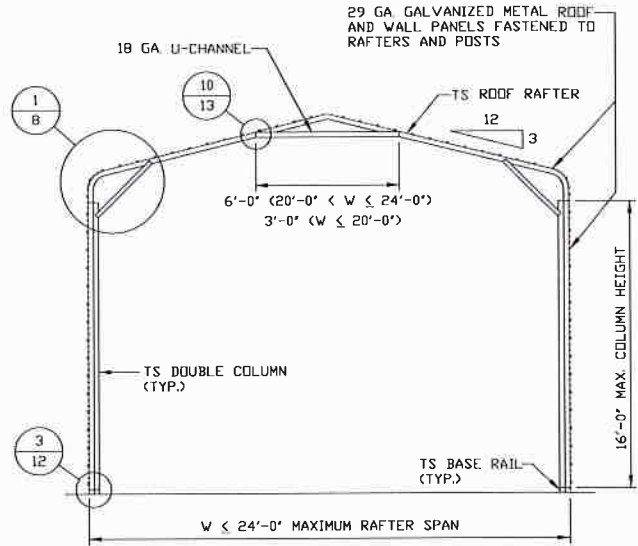
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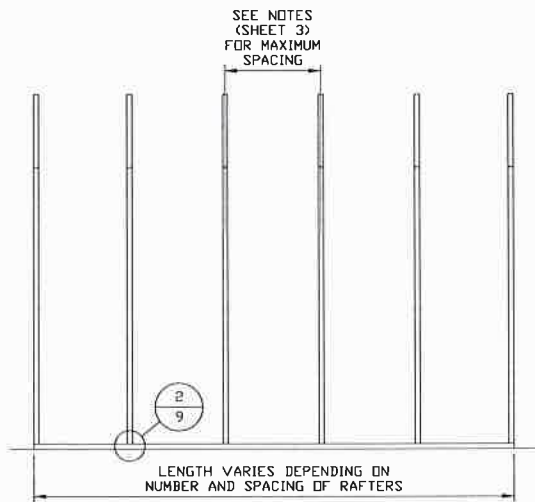
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

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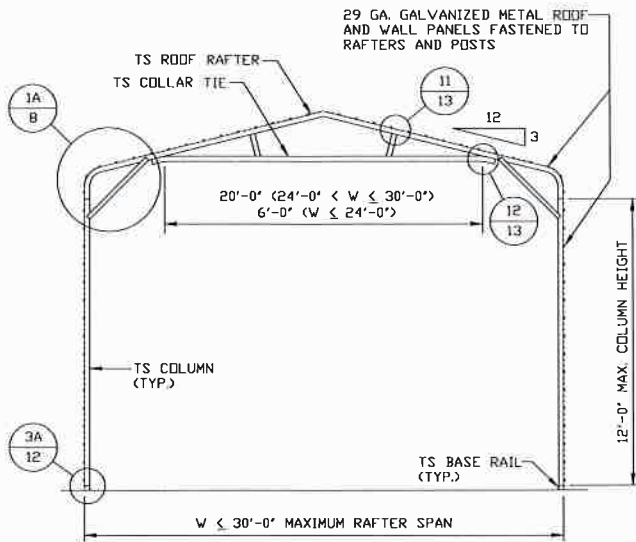
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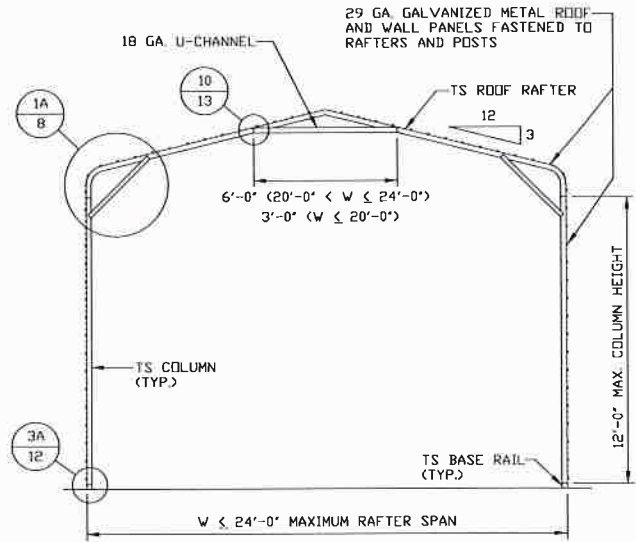
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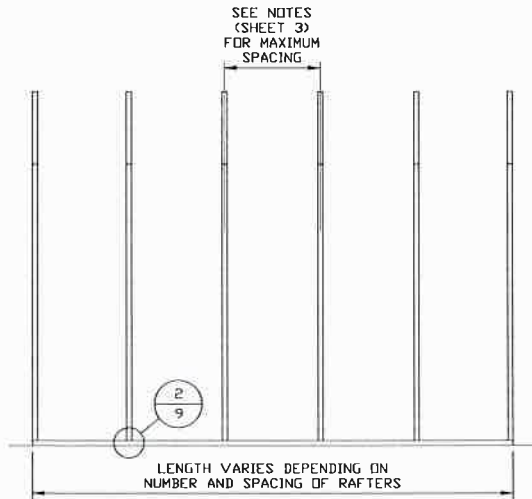
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TYPICAL RAFTER/COLUMN FRAME SECTION
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

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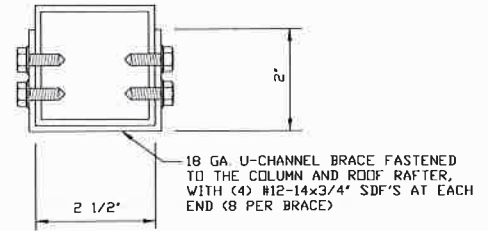
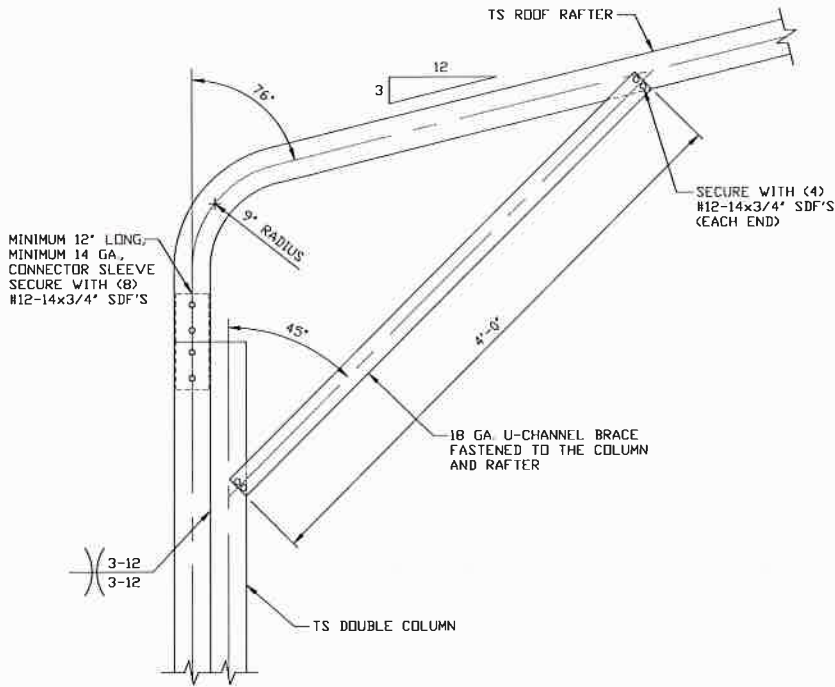
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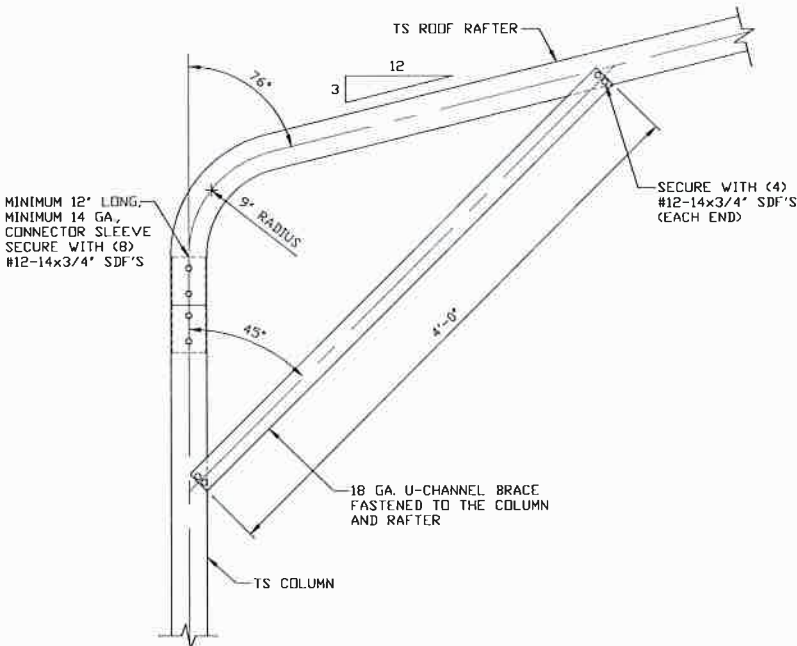
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BRACE SECTION
SCALE: NTS

1
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO <= 16'-0"
SCALE: NTS
NOTE: 2'-0" KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0".



1A
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS <= 12'-0"
SCALE: NTS
NOTE: 2'-0" KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0" AND <= 11'-0" EAVE HEIGHT

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SCALE: NTS

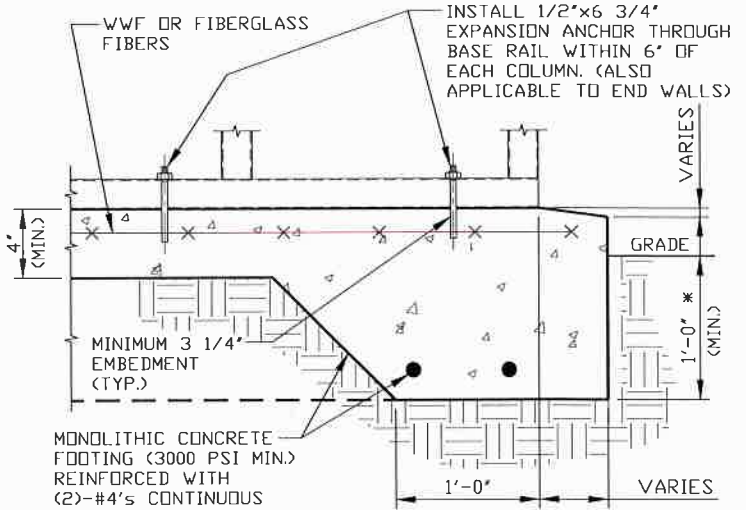
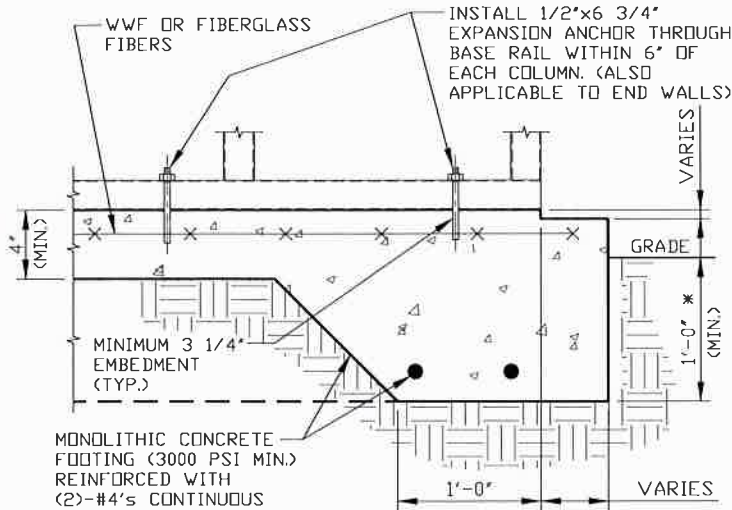
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BASE RAIL ANCHORAGE OPTIONS



2 CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE
SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".
* COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH.

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.

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:

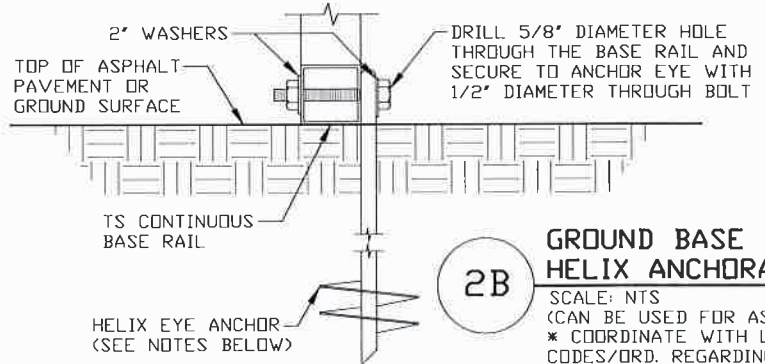
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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)
* COORDINATE WITH LOCAL CODES/ORD. REGARDING MIN. FROST DEPTH (LENGTH).

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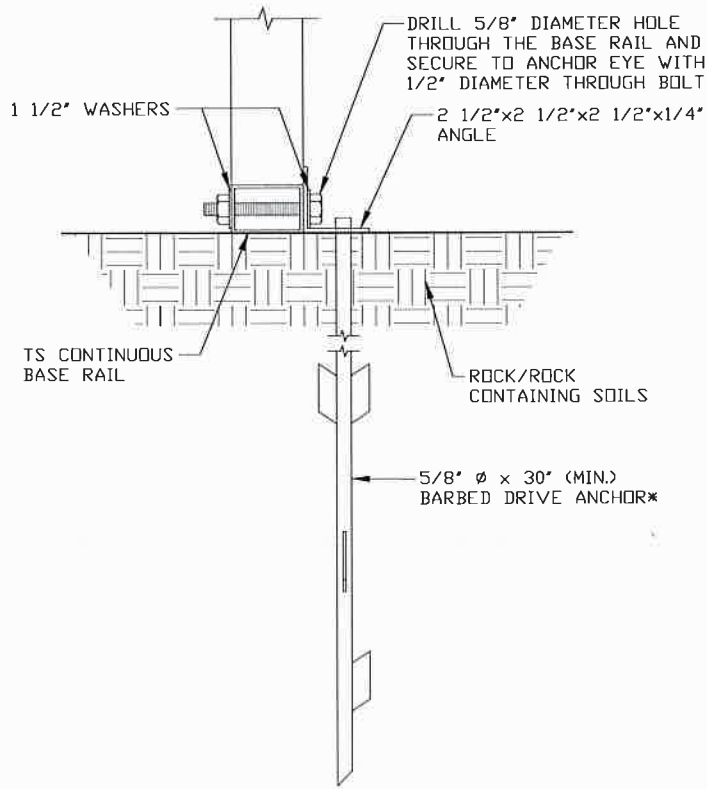
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BASE RAIL ANCHORAGE OPTIONS



2C

BARBED DRIVE ANCHORAGE

SCALE: NTS
 * COORDINATE WITH LOCAL CODES/ORD.
 REGARDING MINIMUM FROST DEPTH REQ.

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

DRAWN BY: LT

CHECKED BY: PH

PROJECT MGR: WSM

CLIENT: JR BUILDINGS

JR BUILDINGS & GARAGES
 316 NELSON STREET
 PILOT MOUNTAIN, NC 27041
 30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 9-2-20

SHT. 9A

SCALE: NTS

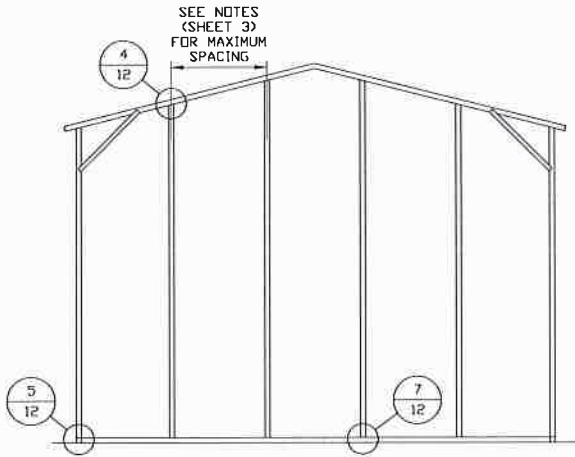
DWG. NO: SK-3

**JOB NO: 18184S/
 18348S/19129S/20229S**

REV.: 4

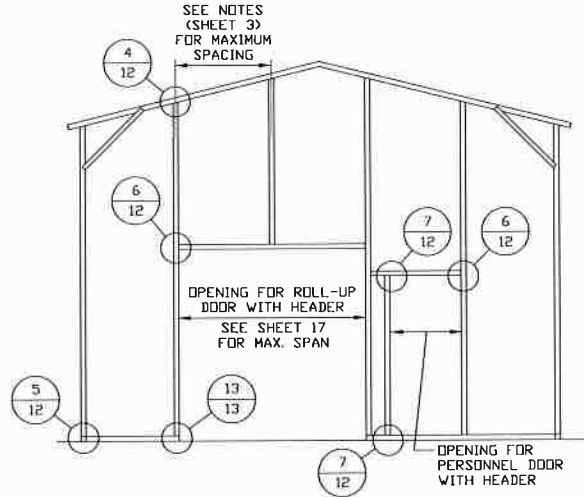
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



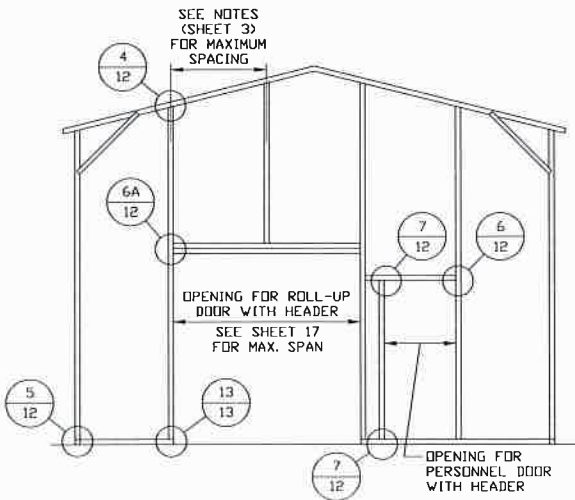
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



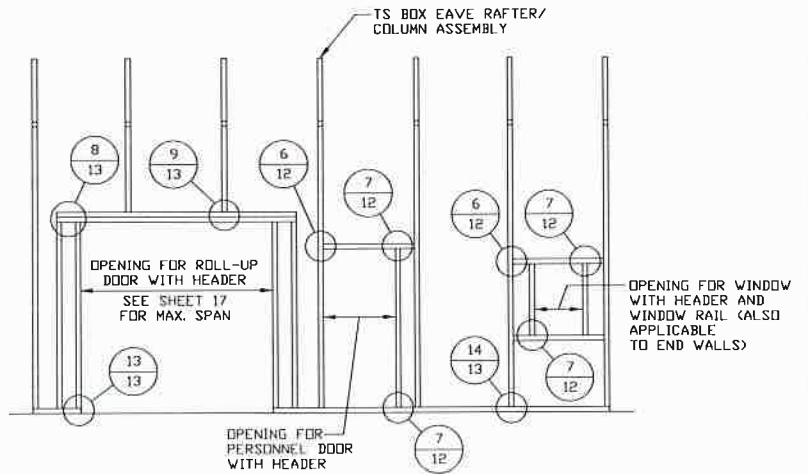
**TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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

SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: PH

PROJECT MGR: VSM

CLIENT: JR BUILDINGS

JR BUILDINGS & GARAGES
316 NELSON STREET
PILOT MOUNTAIN, NC 27041
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 9-2-20

SHT. 10

SCALE: NTS

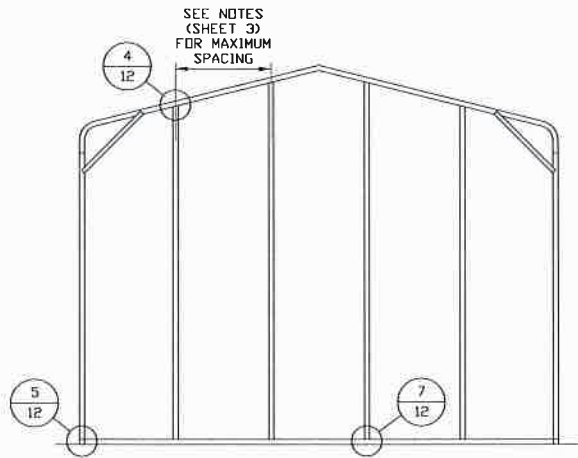
DWG. NO: SK-3

**JOB NO: 18184S/
18348S/19129S/20229S**

REV: 4

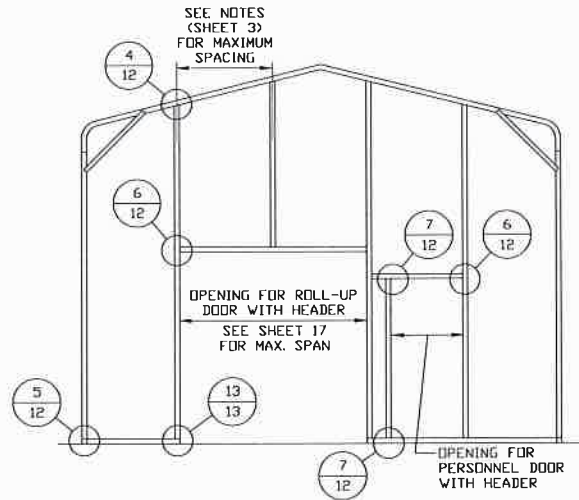
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BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



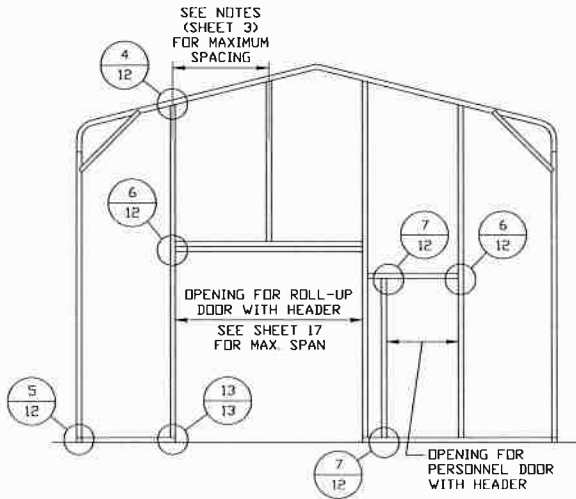
**TYPICAL BOW EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



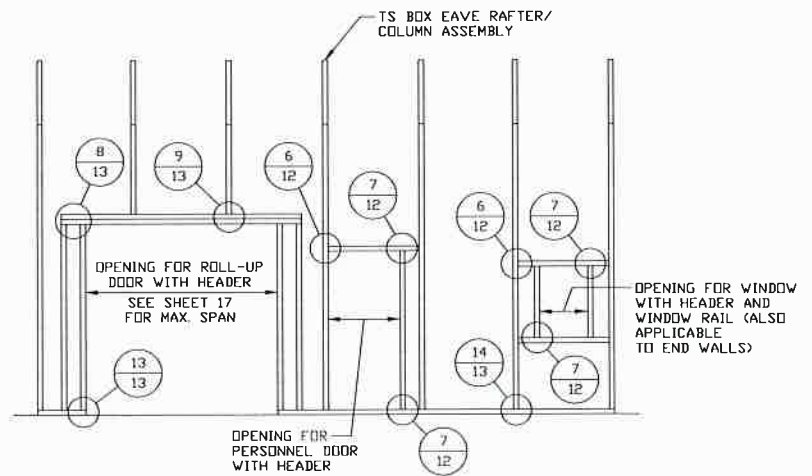
**TYPICAL BOW EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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

SCALE: NTS

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

DRAWN BY: LT

CHECKED BY: PH

PROJECT MGR: WSM

CLIENT: JR BUILDINGS

JR BUILDINGS & GARAGES
316 NELSON STREET
PILOT MOUNTAIN, NC 27041
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 9-2-20

SHT. 11

SCALE: NTS

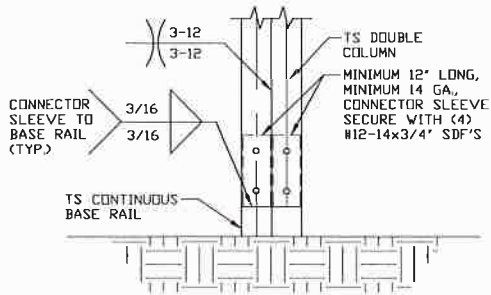
DWG. NO: SK-3

**JOB NO: 18184S/
18348S/19129S/20229S**

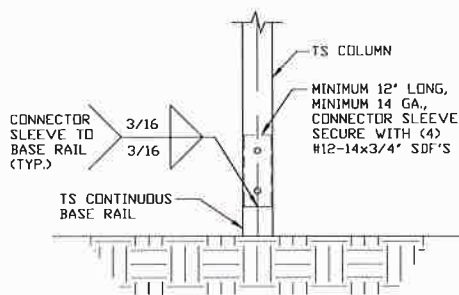
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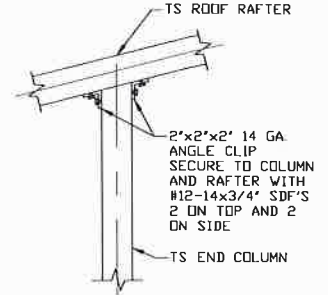
CONNECTION DETAILS



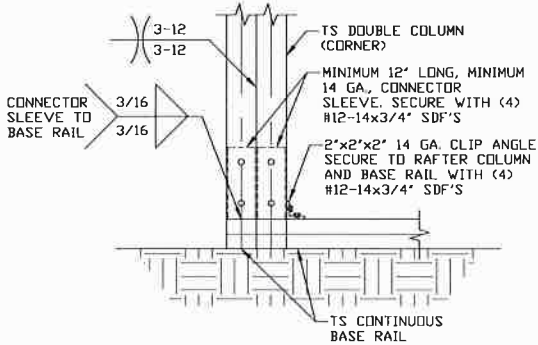
3 POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



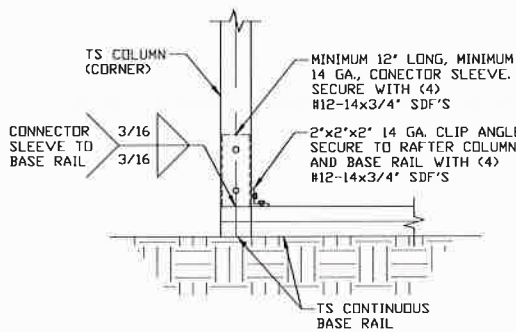
3A POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



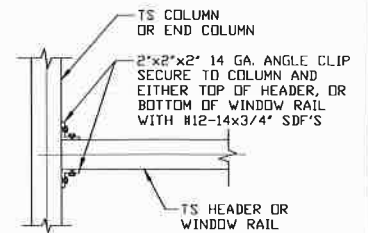
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



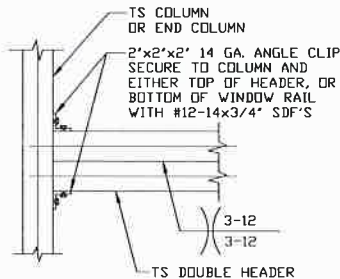
5 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



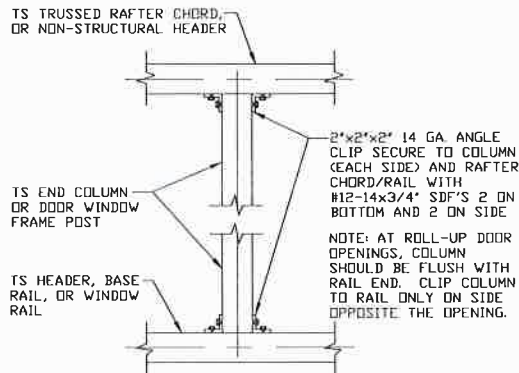
5A END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



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



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



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

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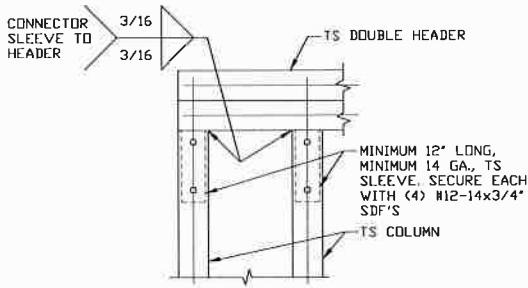
DRAWN BY: LT
CHECKED BY: PH
PROJECT MGR: WSM
CLIENT: JR BUILDINGS

JR BUILDINGS & GARAGES
316 NELSON STREET
PILOT MOUNTAIN, NC 27041
30'-0" x 16'-0" ENCLOSED STRUCTURE

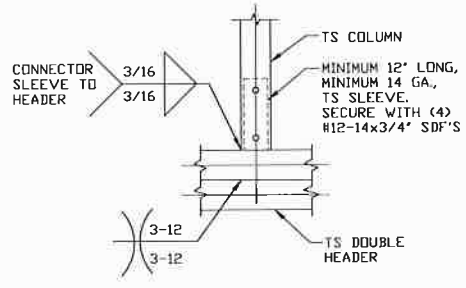
DATE: 9-2-20 **SCALE: NTS** **JOB NO: 18184S/18348S/19129S/20229S**
SHT. 12 **DWG. NO: SK-3** **REV: 4**

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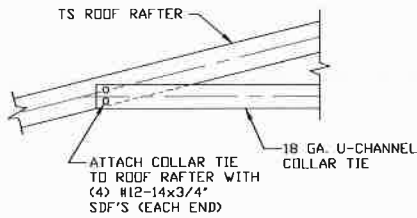
CONNECTION DETAILS



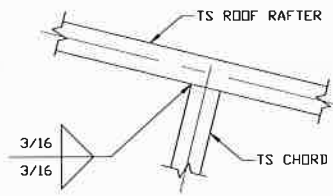
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



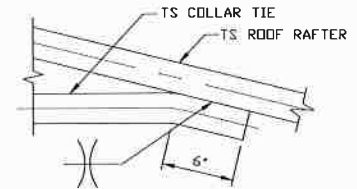
9 COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



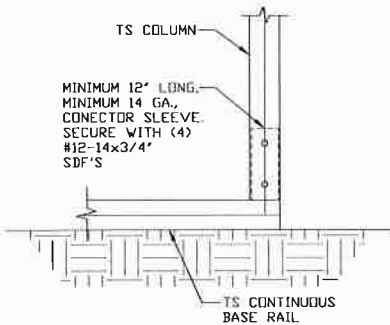
10 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



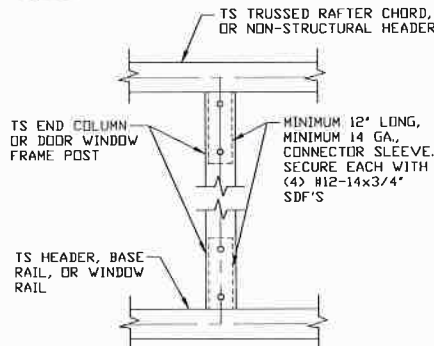
11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



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

**MOORE AND ASSOCIATES
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CHECKED BY: PH

PROJECT MGR: WSM

CLIENT: JR BUILDINGS

JR BUILDINGS & GARAGES
316 NELSON STREET
PILOT MOUNTAIN, NC 27041
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 9-2-20

SHT. 13

SCALE: NTS

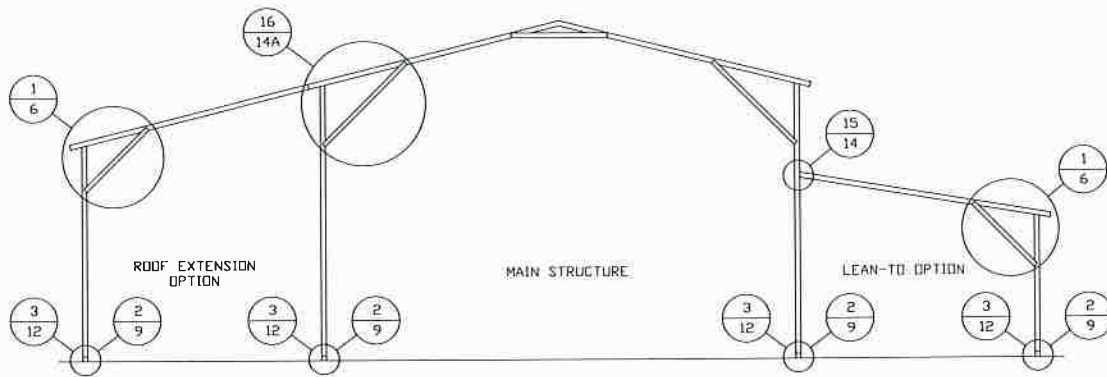
DWG. NO: SK-3

JOB NO: 18184S/
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BOX EAVE RAFTER LEAN-TO OPTIONS

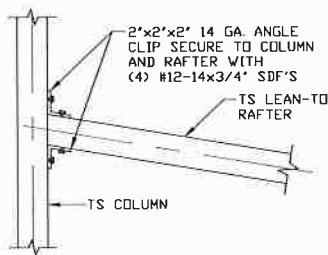


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

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

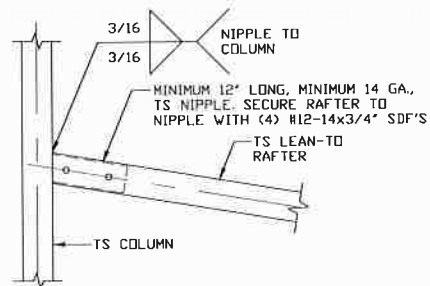
FOR SHARED COLUMN HEIGHTS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.



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

15

SCALE: NTS



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

15A

SCALE: NTS

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

DRAWN BY: LT

CHECKED BY: PH

PROJECT MGR: WSM

CLIENT: JR BUILDINGS

JR BUILDINGS & GARAGES
316 NELSON STREET
PILOT MOUNTAIN, NC 27041
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 9-2-20

SHT. 14

SCALE: NTS

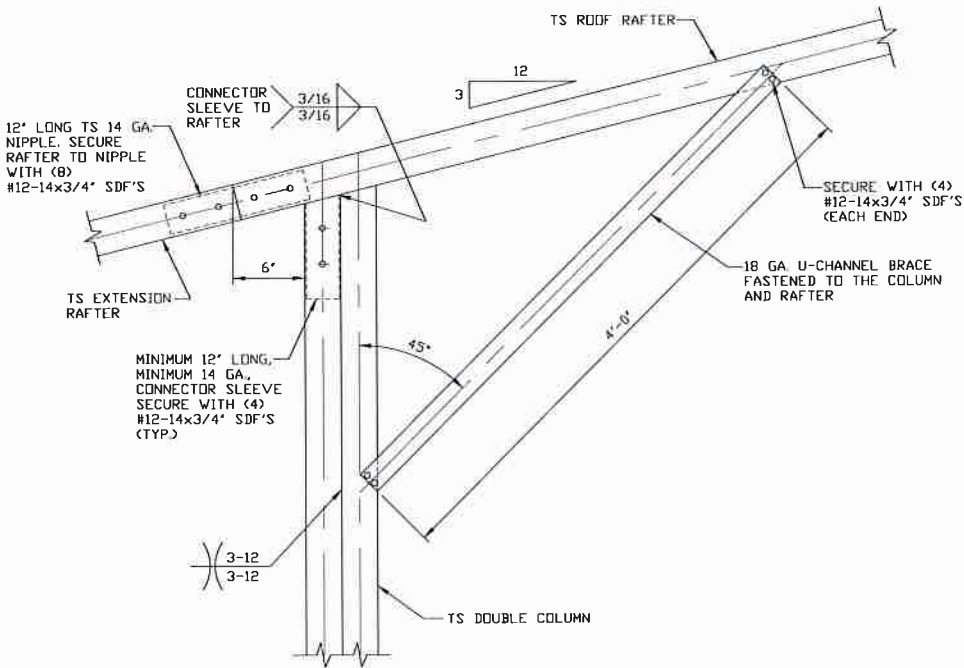
DWG. NO: SK-3

**JOB NO: 18184S/
18348S/19129S/20229S**

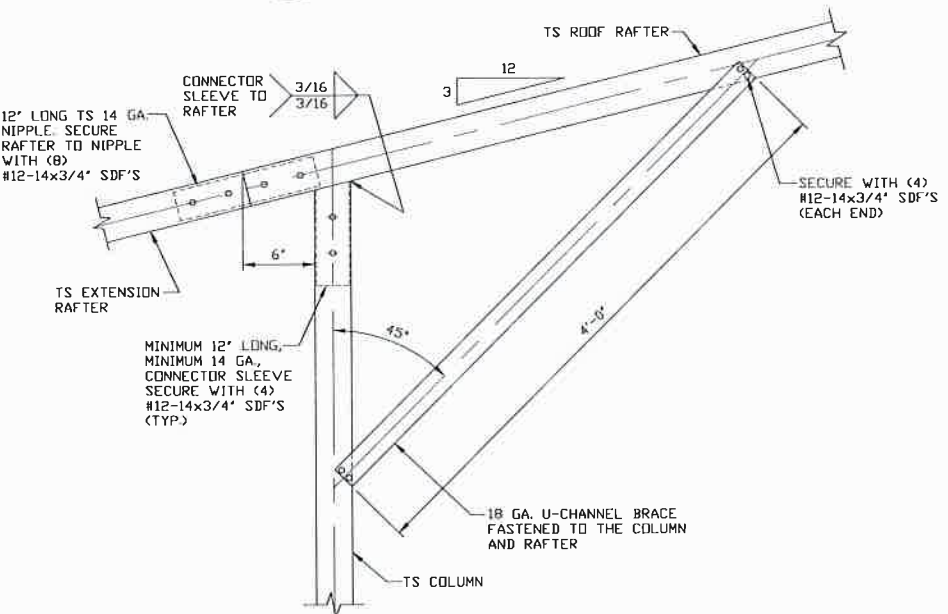
REV: 4

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BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS $\leq 12'-0''$



16 SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 12'-0" < TO \leq 16'-0"
SCALE: NTS

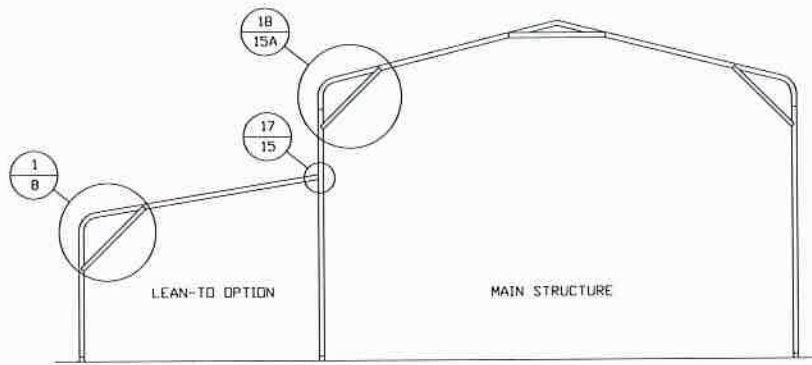


16A SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS \leq 12'-0"
SCALE: NTS

| | | | | |
|--|----------------|---|------------|---|
| MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC. | DRAWN BY: LT | JR BUILDINGS & GARAGES 316 NELSON STREET PILOT MOUNTAIN, NC 27041 30'-0" x 16'-0" ENCLOSED STRUCTURE | | |
| | CHECKED BY: PH | DATE: 9-2-20 | SCALE: NTS | JOB NO: 18184S/ 18348S/19129S/20229S |
| PROJECT MGR: WSM | SHT. 14A | DWG. NO: SK-3 | REV: 4 | |
| CLIENT: JR BUILDINGS | | | | |

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BOW EAVE RAFTER LEAN-TO OPTIONS

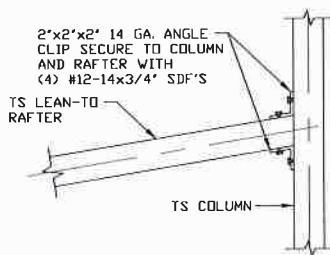


TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS

MAXIMUM WIDTH OF LEAN-TO OPTION IS 12'-0".

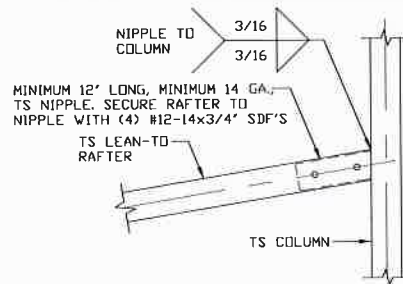
FOR SHARED COLUMN HEIGHTS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS \leq 12'-0"

SCALE: NTS

17



OPTIONAL LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS \leq 12'-0"

SCALE: NTS

17A

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

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PROJECT MGR: WSM

CLIENT: JR BUILDINGS

JR BUILDINGS & GARAGES
316 NELSON STREET
PILOT MOUNTAIN, NC 27041
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 9-2-20

SHT. 15

SCALE: NTS

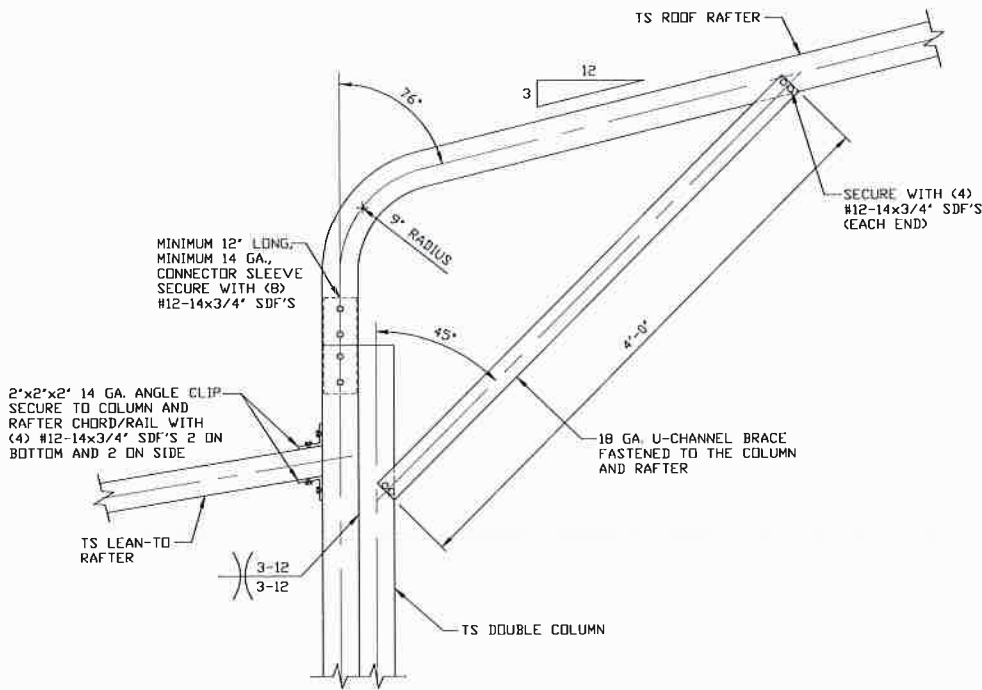
DWG. NO: SK-3

JOB NO: 18184S/
18348S/19129S/20229S

REV: 4

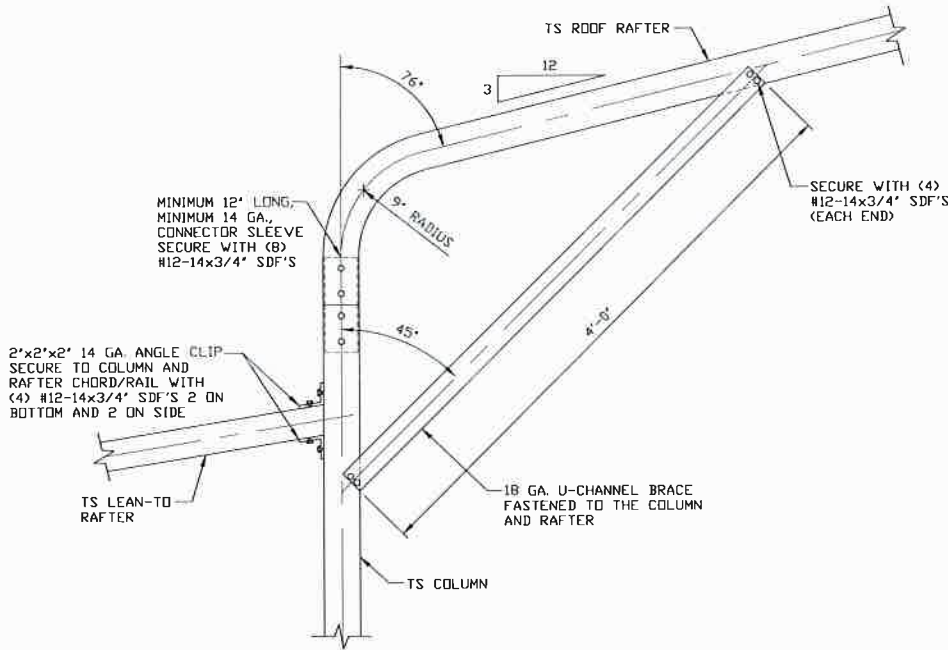
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BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS $\leq 12'-0"$



18

**SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 12'-0" < TO \leq 16'-0"**
SCALE: NTS



18A

**SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS \leq 12'-0"**
SCALE: NTS

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

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CHECKED BY: PH

PROJECT MGR: WSM

CLIENT: JR BUILDINGS

JR BUILDINGS & GARAGES
316 NELSON STREET
PILOT MOUNTAIN, NC 27041
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 9-2-20

SHT. 15A

SCALE: NTS

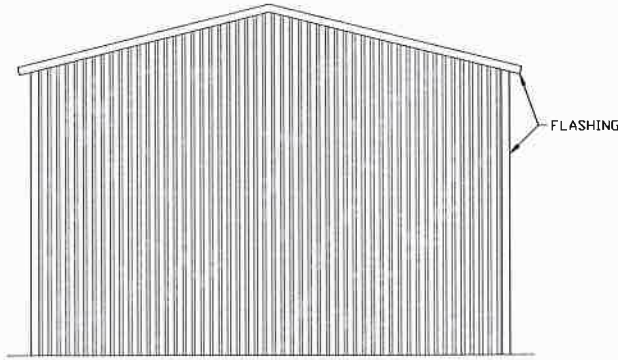
DWG. NO: SK-3

**JOB NO: 18184S/
18348S/19129S/20229S**

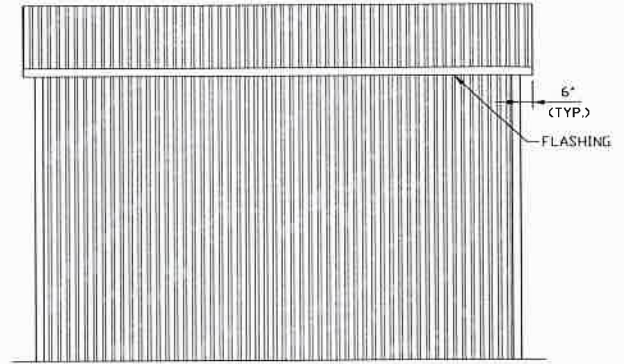
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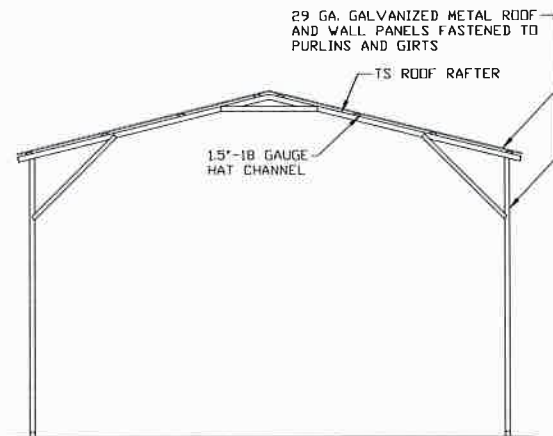
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



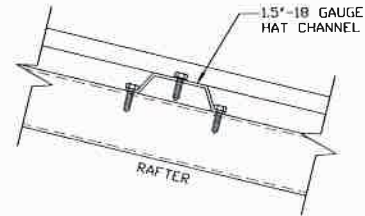
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**
SCALE: NTS



**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

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CHECKED BY: PH

PROJECT MGR: WSM

CLIENT: JR BUILDINGS

JR BUILDINGS & GARAGES
316 NELSON STREET
PILOT MOUNTAIN, NC 27041
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 9-2-20

SHT. 16

SCALE: NTS

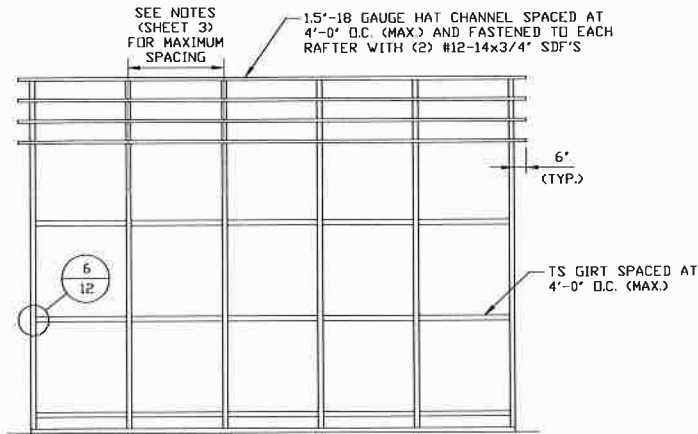
DWG. NO: SK-3

**JOB NO: 18184S/
18348S/19129S/20229S**

REV: 4

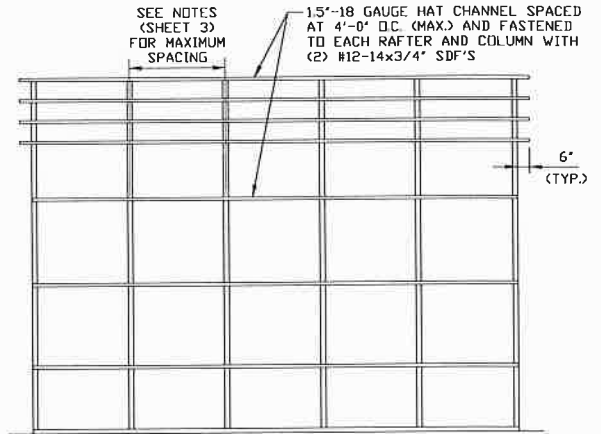
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



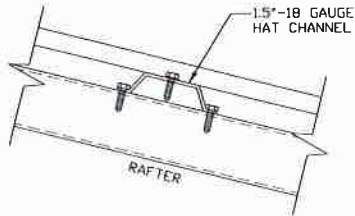
TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION WITH TS GIRTS

SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION WITH HAT CHANNEL GIRTS

SCALE: NTS



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)

SCALE: NTS

**MOORE AND ASSOCIATES
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DRAWN BY: LT

CHECKED BY: PH

PROJECT MGR: WSM

CLIENT: JR BUILDINGS

JR BUILDINGS & GARAGES
316 NELSON STREET
PILOT MOUNTAIN, NC 27041
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 9-2-20

SHT. 16A

SCALE: NTS

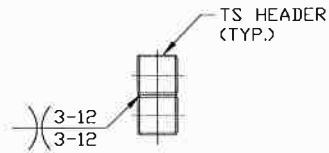
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JOB NO: 18184S/
18348S/19129S/20229S

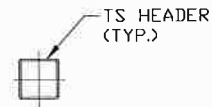
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SIDE WALL HEADER OPTIONS

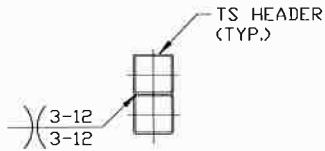


**HEADER DETAIL FOR
7'-0" < LENGTH ≤ 12'-0"**
SCALE: NTS

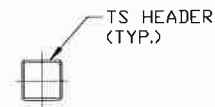


**HEADER DETAIL FOR
DOOR OPENINGS ≤ 7'-0"**
SCALE: NTS

END WALL HEADER OPTIONS



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



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

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

DRAWN BY: LT

CHECKED BY: PH

PROJECT MGR: VSM

CLIENT: JR BUILDINGS

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316 NELSON STREET
PILOT MOUNTAIN, NC 27041
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 9-2-20

SHT. 17

SCALE: NTS

DWG. NO: SK-3

**JOB NO: 18184S/
18348S/19129S/20229S**

REV: 4

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