

Eagle Carports

"Flying High with Great Deals"



STRUCTURAL DESIGN

ENCLOSED BUILDING

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

9 February 2018

Revision 6

M&A Project No. 16166S/17207S/17293S/18012S

Prepared for:

**Eagle Carports
210 Airport Road
Mount Airy, NC 27030**

Prepared by:

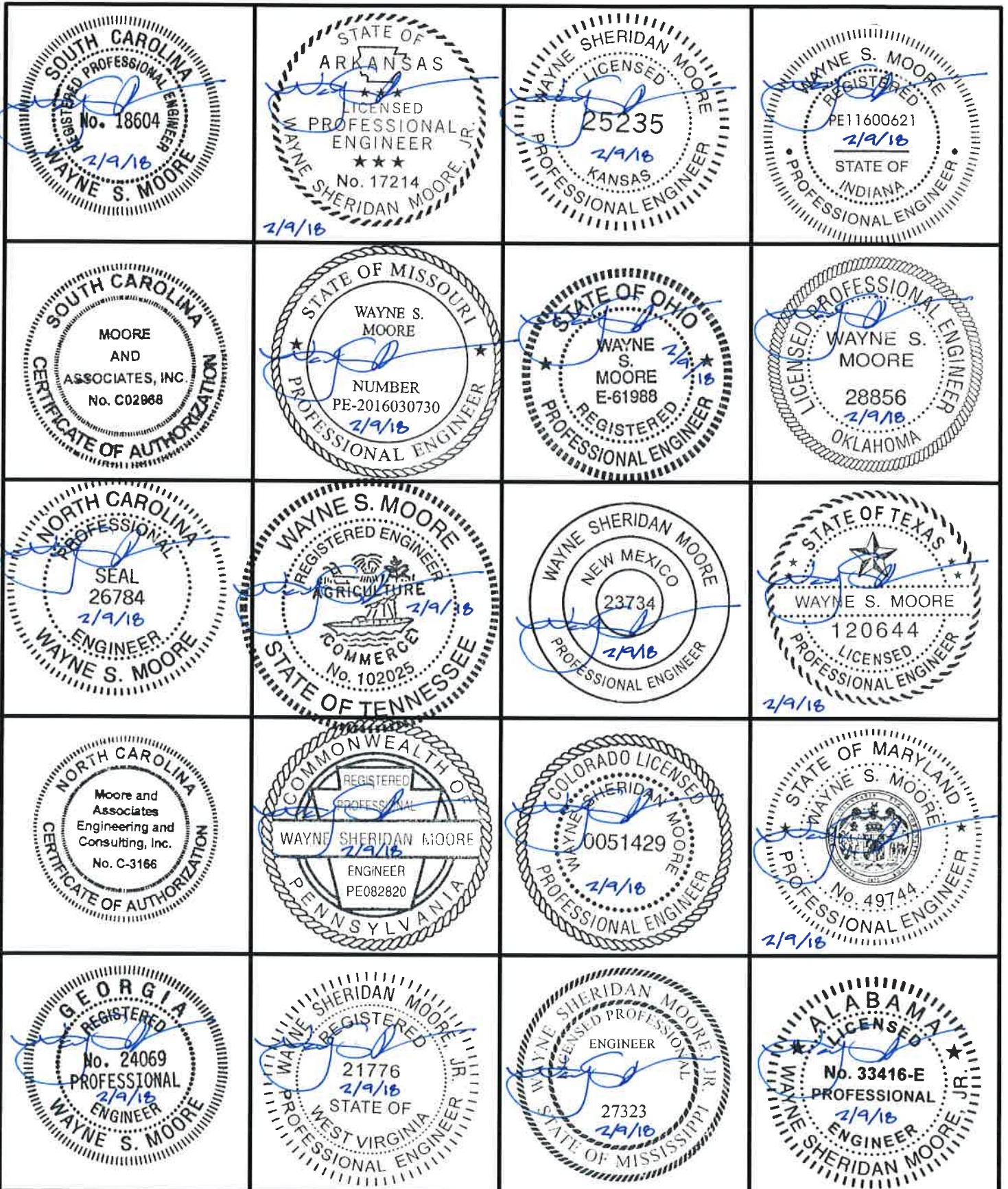
Moore and Associates Engineering and Consulting, Inc.

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

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



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**EAGLE CARPORTS
30'-0"x20'-0" SP ENCLOSED STRUCTURE
PE SEAL COVER SHEET**

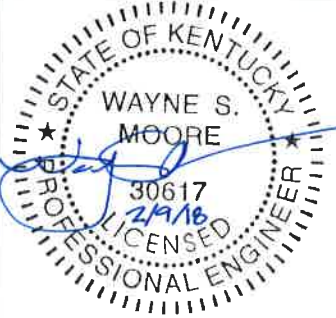


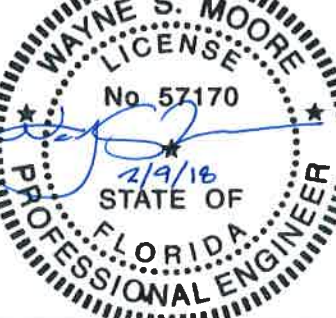
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PROJECT MGR: WSM
CLIENT: EAGLE CARPORTS

DATE: 2-9-18
SHT. 1

SCALE: NTS
DWG. NO: SK-3

JOB NO: 16166S/18012S
REV.: 6

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EAGLE CARPORTS
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PE SEAL COVER SHEET

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| CLIENT: EAGLE CARPORTS | SHT. 1A | DWG. NO: SK-3 | REV: 6 |

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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, 2012 NORTH CAROLINA BUILDING CODE, 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC, 2012 IBC AND 2015 IBC.
3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 1.5 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 35 PSF
4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH).
5. MAXIMUM RAFTER/POST SPACING = 5.0 FEET.
6. END POST SPACING = 5.0 FEET.
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.
10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10" O.C. (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. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES.
13. GROUND ANCHORS CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG IN SUITABLE SOIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
14. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 - SOIL SITE CLASS = D
 - RISK CATEGORY I/II/III
 - R = 3.25 $I_E = 1.0$
 - $S_{DS} = 1.522$ $V = C_S W$
 - $S_{D1} = 0.839$

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210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

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DATE: 2-9-18

SCALE: NTS

JOB NO: 16166S/18012S

CLIENT: EAGLE CARPORTS

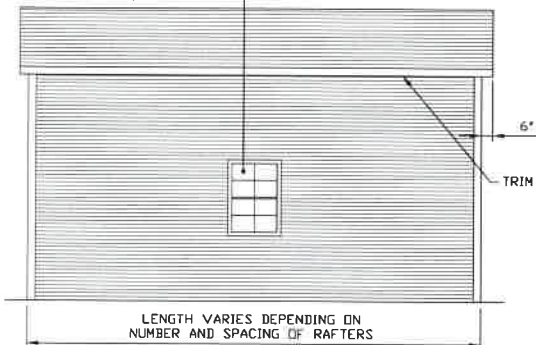
SHT. 3

DWG. NO: SK-3

REV: 6

BOX EAVE RAFTER STRUCTURE

WINDOW (AS APPLICABLE)
DESIGN PRESSURE
EXP. B (21.8 PSF, -23.6 PSF)
EXP. C (26.4 PSF, -28.6 PSF)

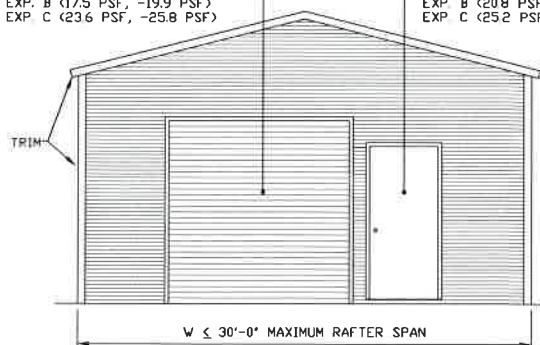


TYPICAL SIDE ELEVATION

SCALE: NTS

ROLL-UP DOOR
(AS APPLICABLE)
DESIGN PRESSURE
EXP. B (17.5 PSF, -19.9 PSF)
EXP. C (23.6 PSF, -25.8 PSF)

SWINGING DOOR
(AS APPLICABLE)
DESIGN PRESSURE
EXP. B (20.8 PSF, -22.6 PSF)
EXP. C (25.2 PSF, -27.3 PSF)

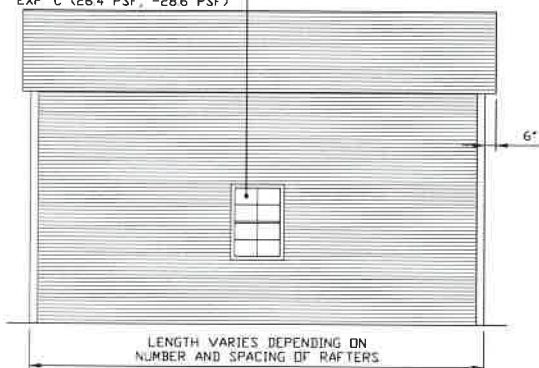


TYPICAL END ELEVATION

SCALE: NTS

BOW FRAME RAFTER STRUCTURE

WINDOW (AS APPLICABLE)
DESIGN PRESSURE
EXP. B (21.8 PSF, -23.6 PSF)
EXP. C (26.4 PSF, -28.6 PSF)

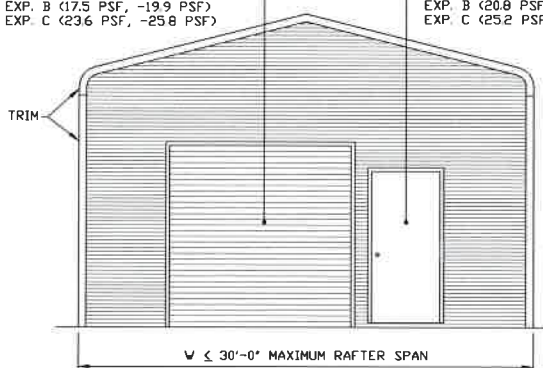


TYPICAL SIDE ELEVATION

SCALE: NTS

ROLL-UP DOOR
(AS APPLICABLE)
DESIGN PRESSURE
EXP. B (17.5 PSF, -19.9 PSF)
EXP. C (23.6 PSF, -25.8 PSF)

SWINGING DOOR
(AS APPLICABLE)
DESIGN PRESSURE
EXP. B (20.8 PSF, -22.6 PSF)
EXP. C (25.2 PSF, -27.3 PSF)



TYPICAL END ELEVATION

SCALE: NTS

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SHT. 3A

SCALE: NTS

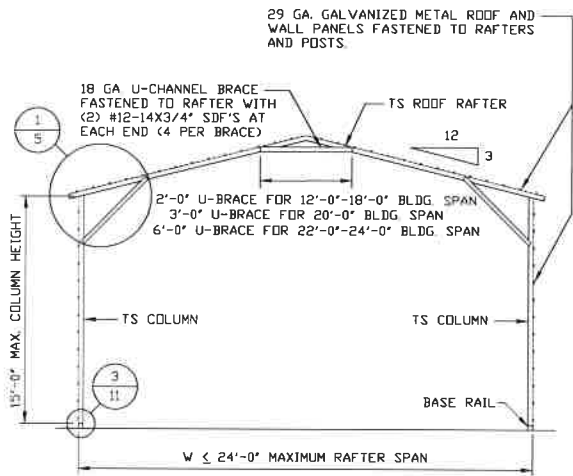
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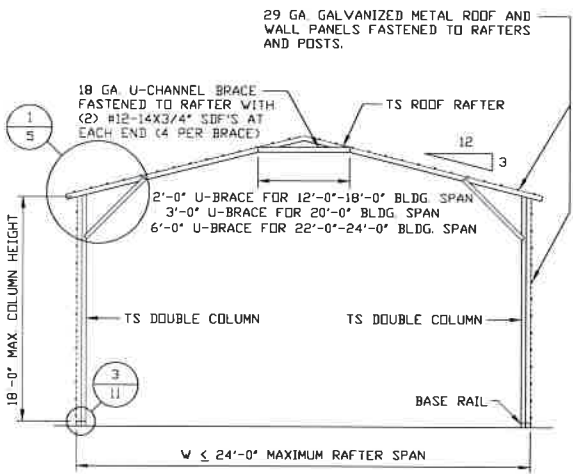
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EXPOSURE B



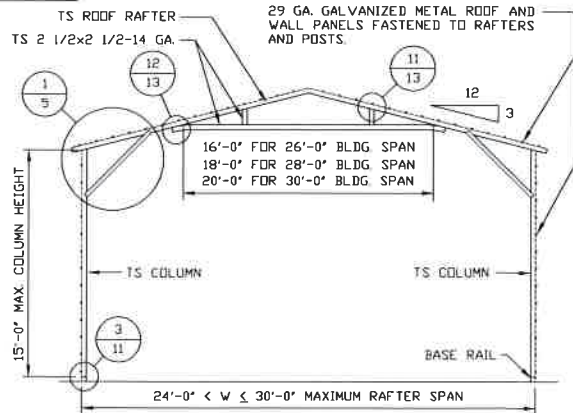
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



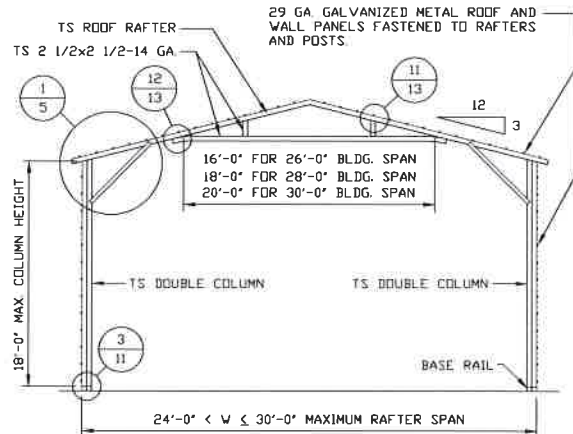
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

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SHT. 4

SCALE: NTS

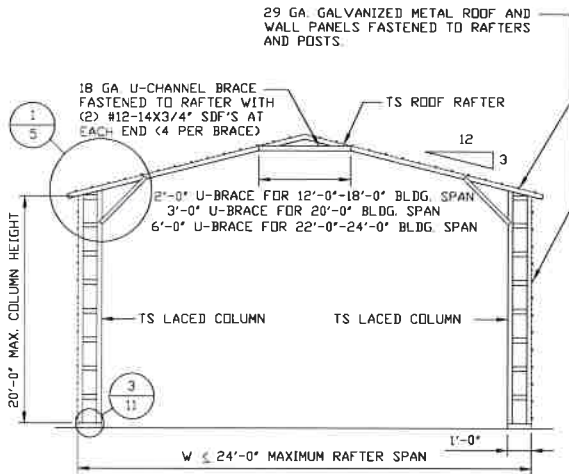
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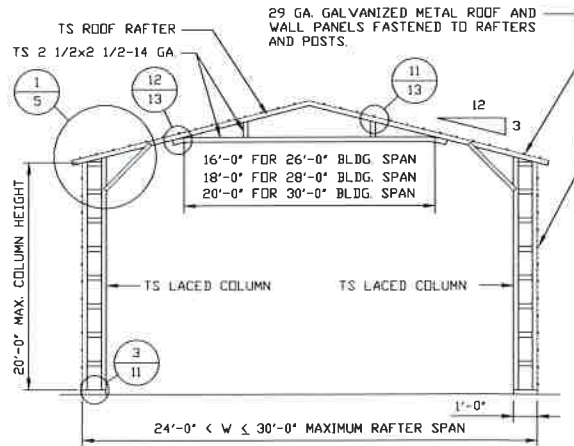
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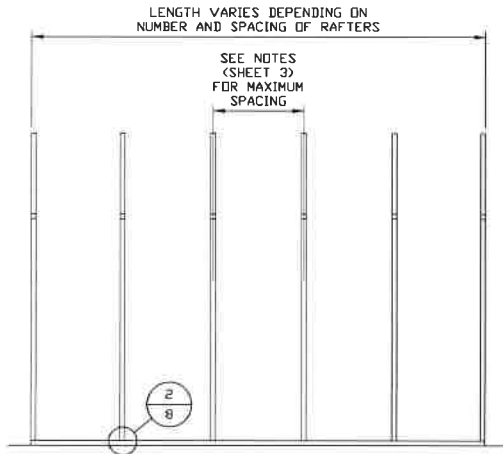
EXPOSURE B



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

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SHT. 4A

SCALE: NTS

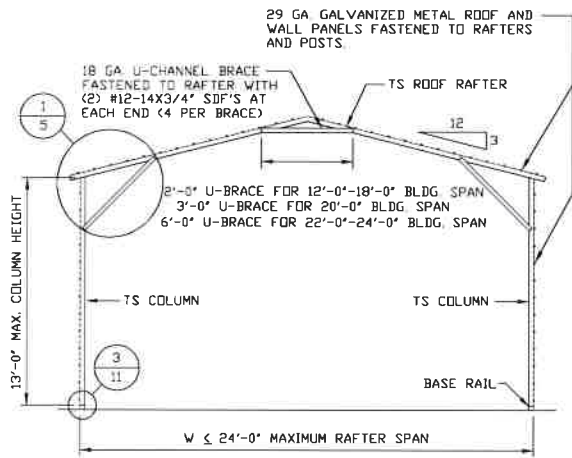
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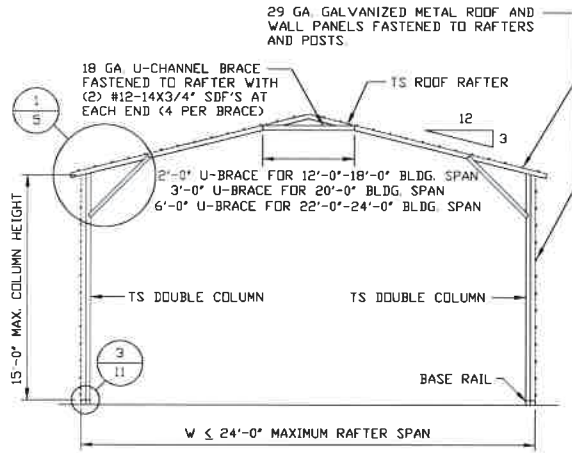
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EXPOSURE C



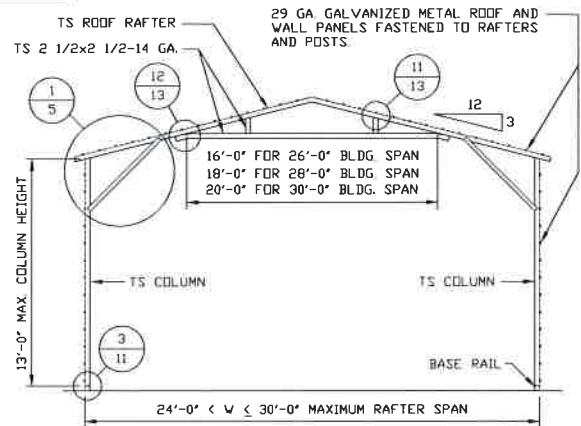
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



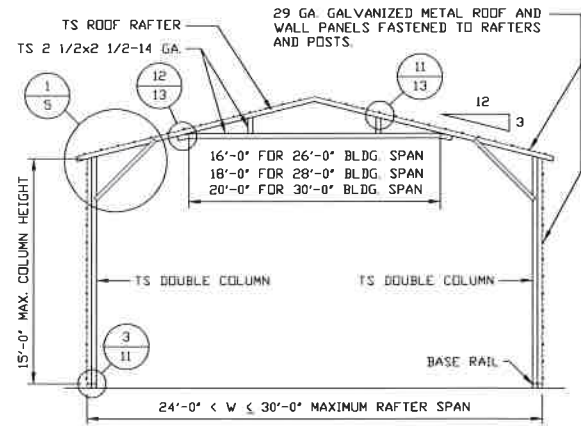
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

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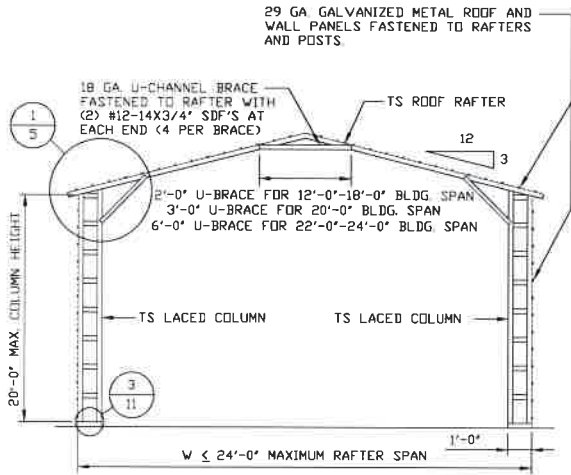
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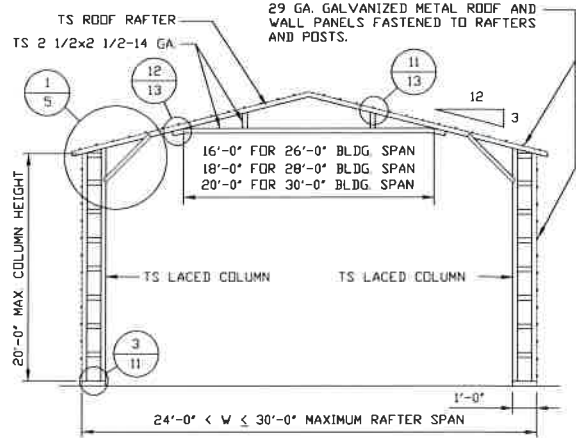
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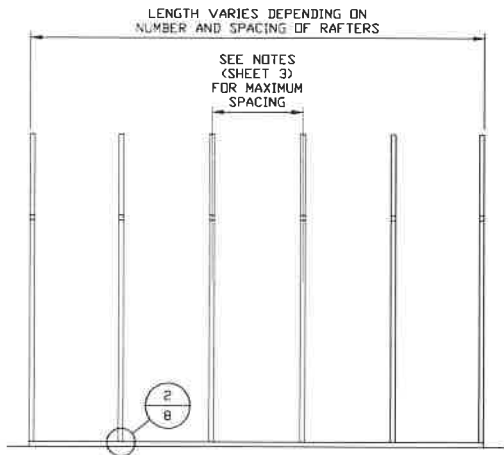
EXPOSURE C



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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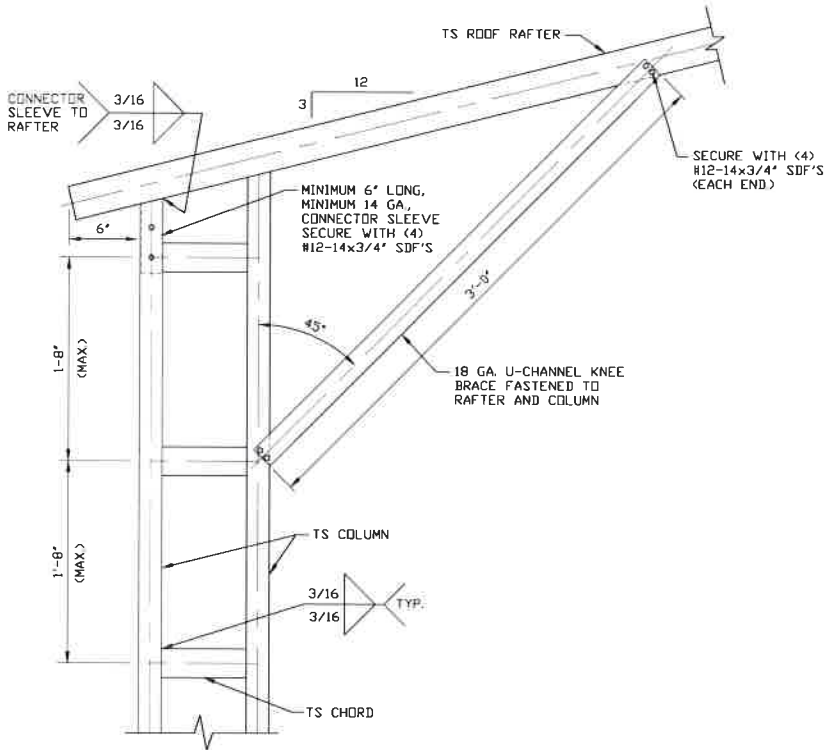
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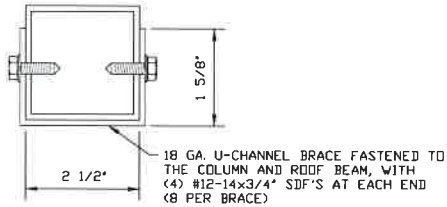
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EXPOSURE B



1A **BOX EAVE RAFTER COLUMN CONNECTION**
DETAIL FOR HEIGHTS 18'-0" < TO ≤ 20'-0"
 SCALE: NTS



BRACE SECTION
 SCALE: NTS

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SHT. 5A

SCALE: NTS

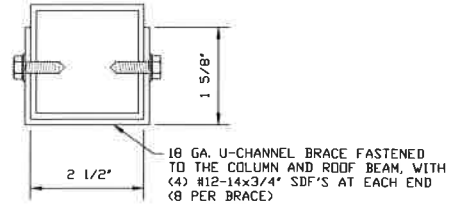
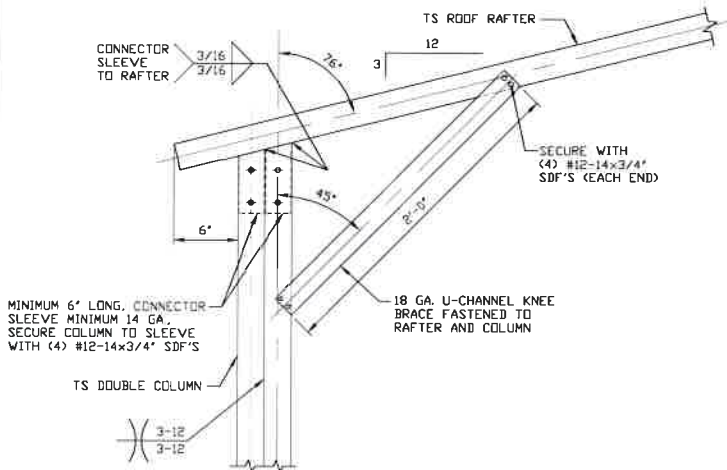
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EXPOSURE B



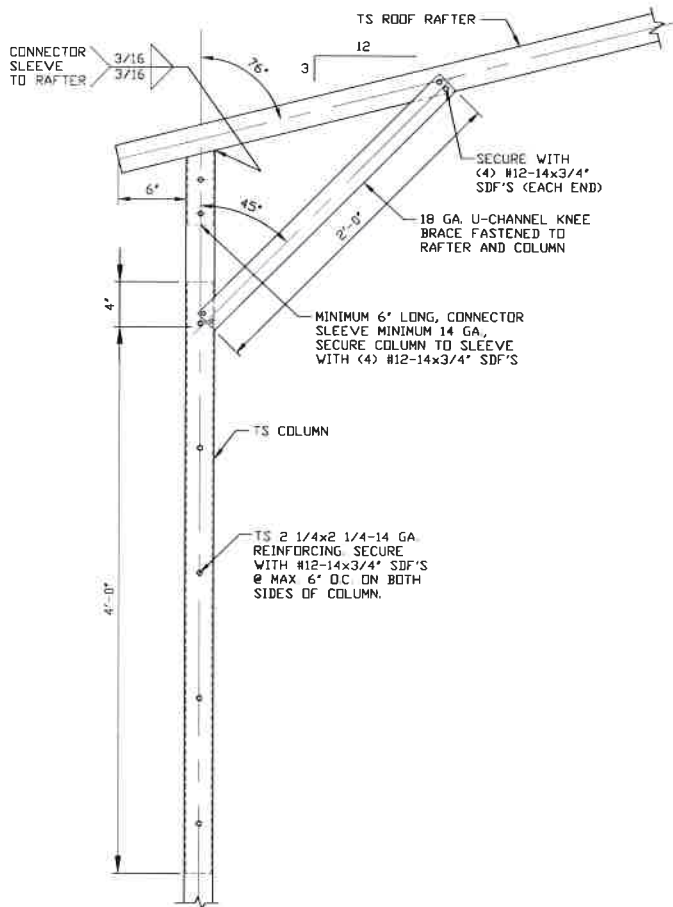
BRACE SECTION

SCALE: NTS

1B

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 15'-0" < TO ≤ 18'-0"

SCALE: NTS



1C

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 15'-0"

SCALE: NTS

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SCALE: NTS

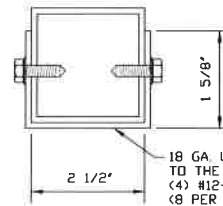
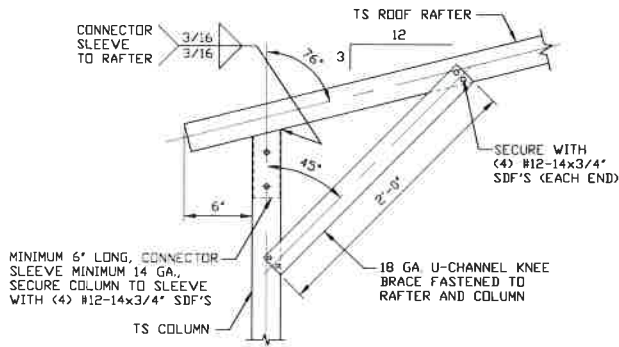
JOB NO: 16166S/18012S

DWG. NO: SK-3

REV: 6

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EXPOSURE B



BRACE SECTION

SCALE: NTS

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS $\leq 12'-0"$

1D

SCALE: NTS

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

DRAWN BY: AT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

**EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 2-9-18

SHT. 5C

SCALE: NTS

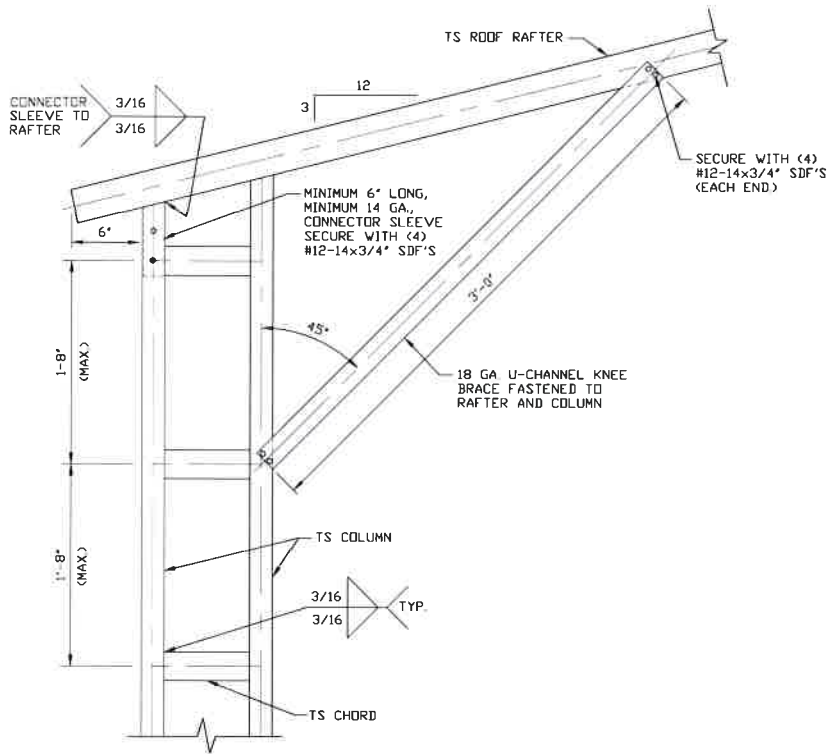
DWG. NO: SK-3

JOB NO: 16166S/18012S

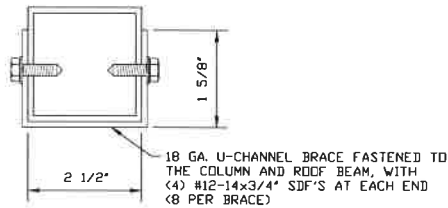
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EXPOSURE C



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



BRACE SECTION
 SCALE: NTS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: AT

CHECKED BY: PDM

PROJECT MGR: VSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
 210 AIRPORT ROAD
 MOUNT AIRY, NC 27030
 30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 2-9-18

SCALE: NTS

JOB NO: 16166S/18012S

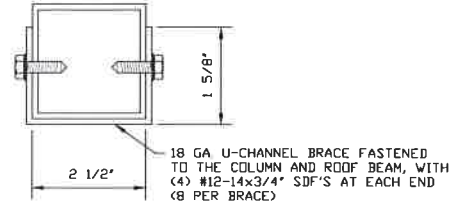
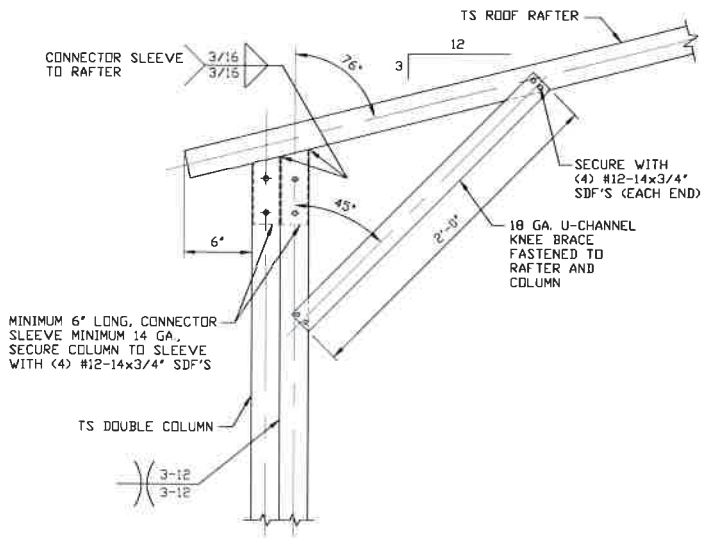
SHT. 5D

DWG. NO: SK-3

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EXPOSURE C



BRACE SECTION
SCALE: NTS

**BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 13'-0" < TO ≤ 15'-0"**

1F

SCALE: NTS

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

DRAWN BY: AT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 2-9-18

SHT. 5E

SCALE: NTS

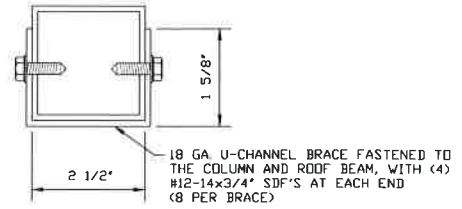
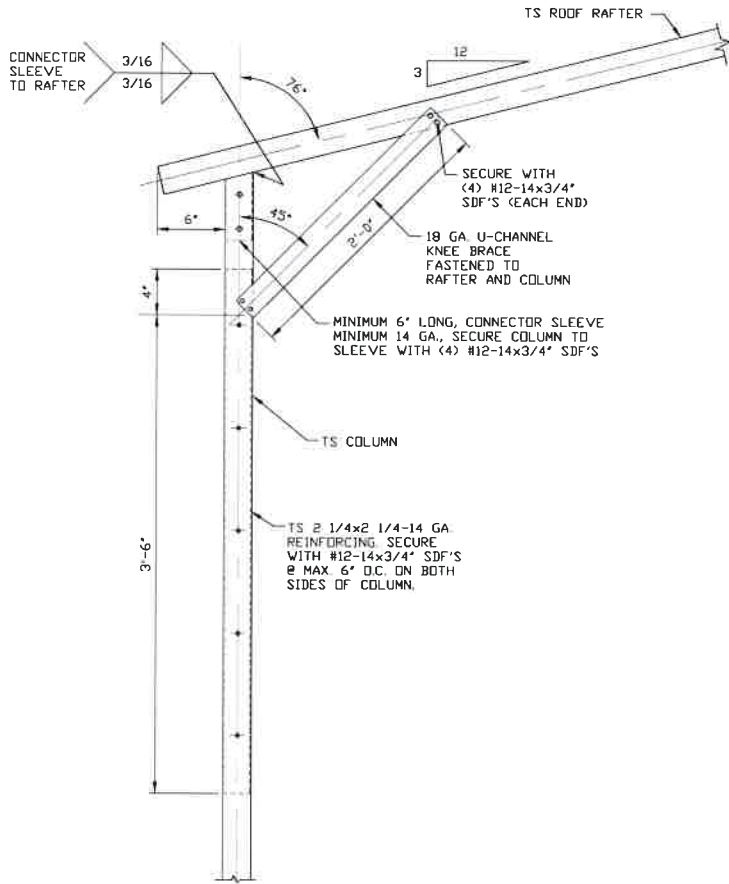
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JOB NO: 16166S/18012S

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EXPOSURE C



BRACE SECTION

SCALE: NTS

**BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 9'-0" < TO ≤ 13'-0"**

1G

SCALE: NTS

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

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CHECKED BY: PDH

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

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PROJECT MGR: WSM

DATE: 2-9-18

SCALE: NTS

JOB NO: 16166S/18012S

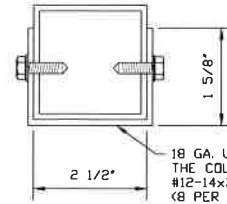
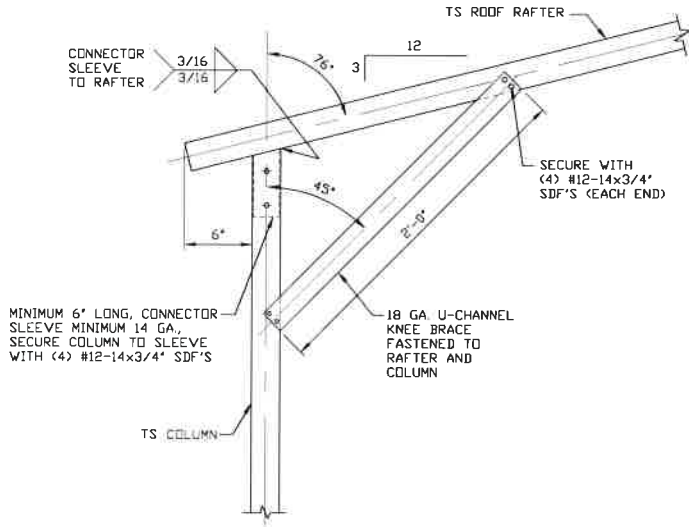
CLIENT: EAGLE CARPORTS

SHT. 5F

DWG. NO: SK-3

REV: 6

EXPOSURE C



18 GA. U-CHANNEL BRACE FASTENED TO THE COLUMN AND ROOF BEAM, WITH (4) #12-14x3/4" SDF'S AT EACH END (8 PER BRACE)

BRACE SECTION

SCALE: NTS

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 9'-0"

1H

SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

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EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
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DATE: 2-9-18

SHT. 3G

SCALE: NTS

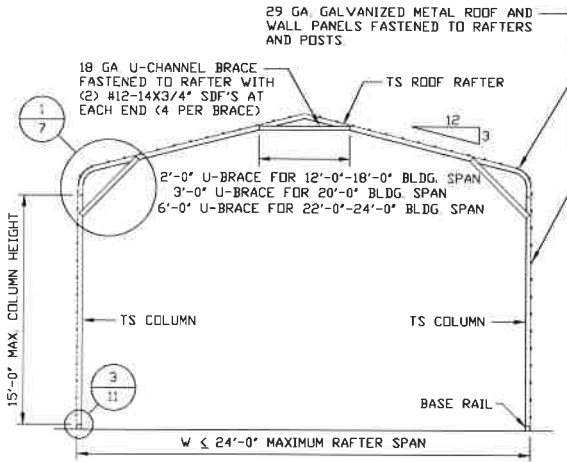
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JOB NO: 16166S/18012S

REV: 6

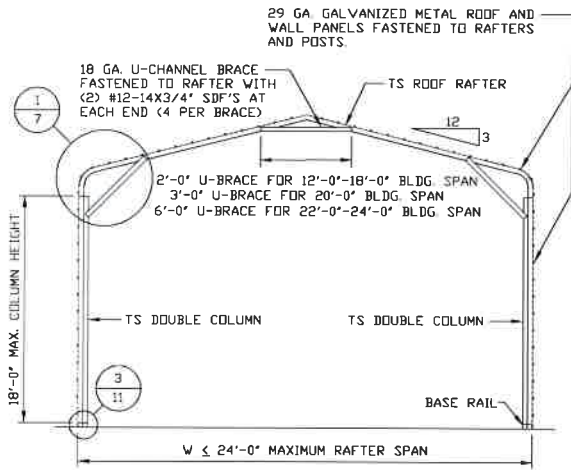
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EXPOSURE B



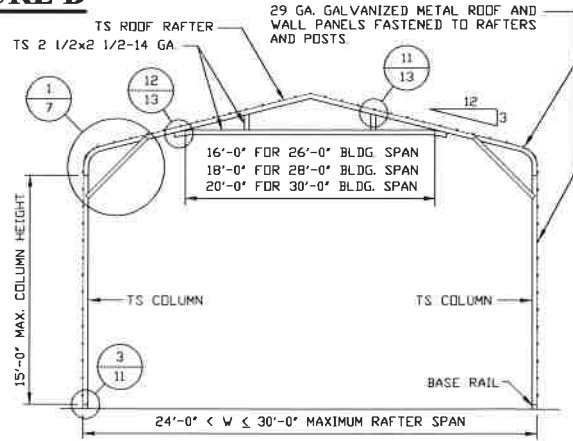
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



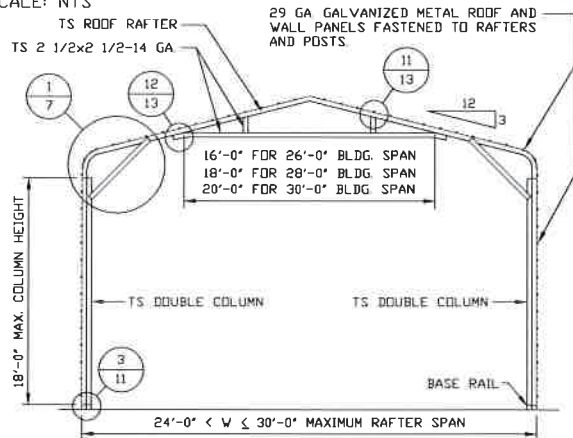
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

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EAGLE CARPORTS
210 AIRPORT ROAD
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DATE: 2-9-18

SHT. 6

SCALE: NTS

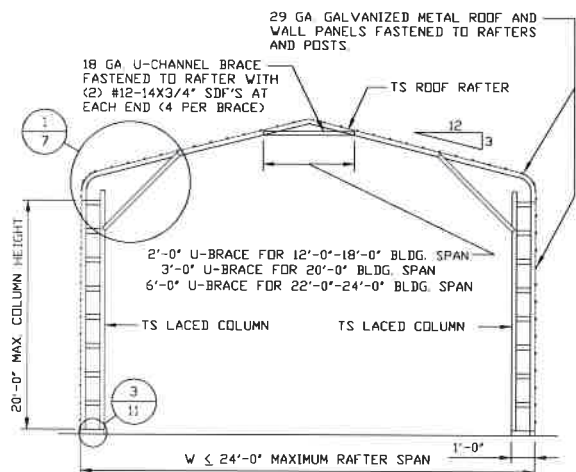
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JOB NO: 16166S/18012S

REV: 6

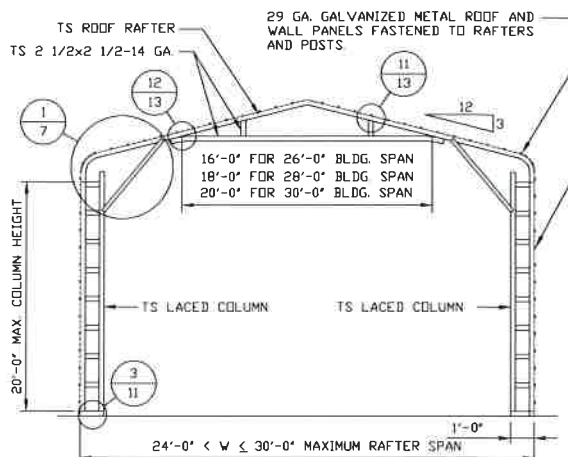
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EXPOSURE B



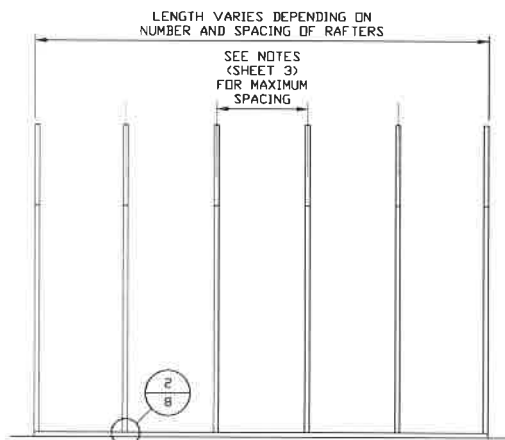
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE: NTS

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PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

**EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 2-9-18

SCALE: NTS

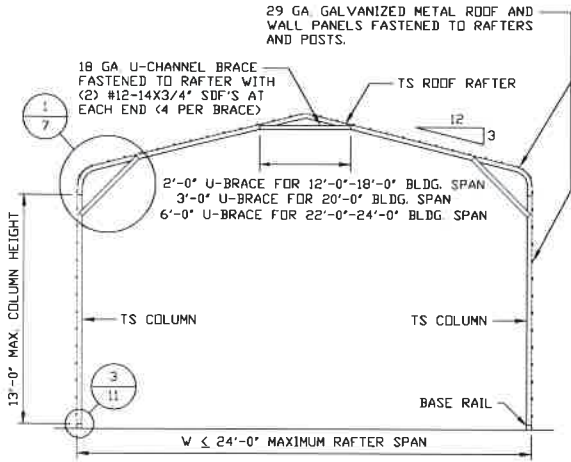
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JOB NO: 16166S/18012S

REV: 6

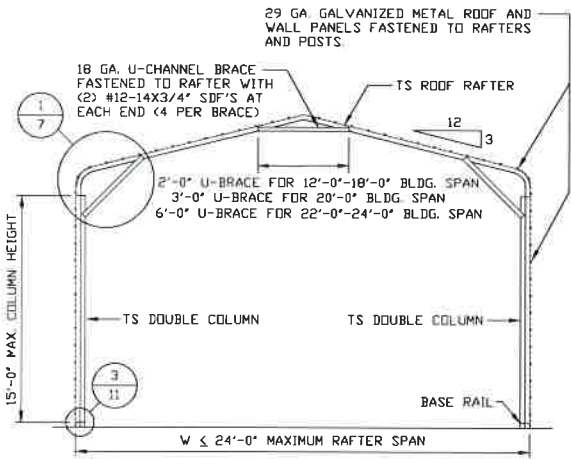
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EXPOSURE C



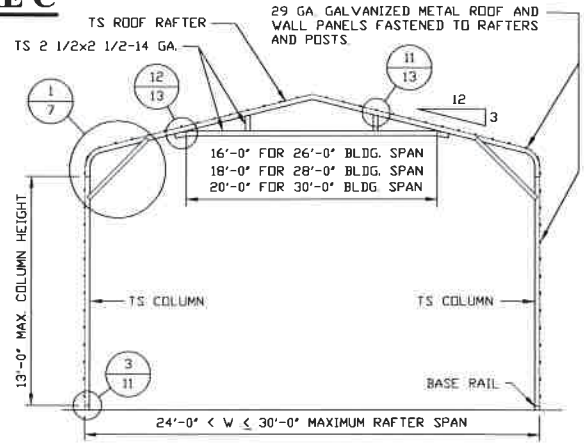
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



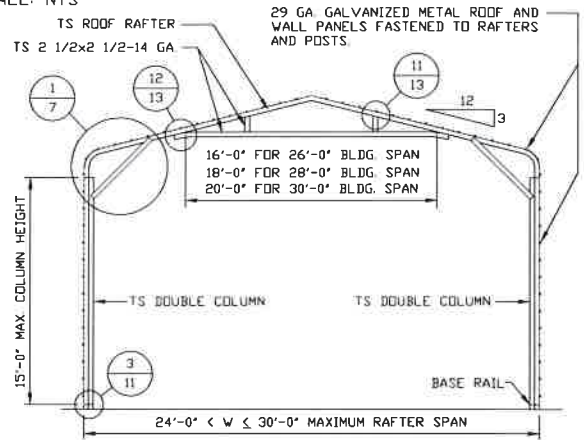
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

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PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

**EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 2-9-18

SHT. 6B

SCALE: NTS

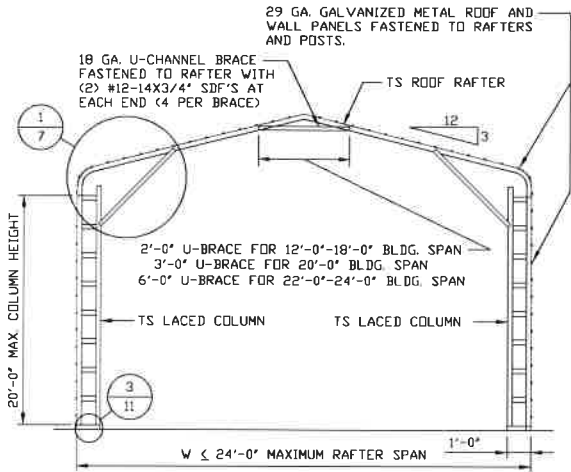
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JOB NO: 16166S/19012S

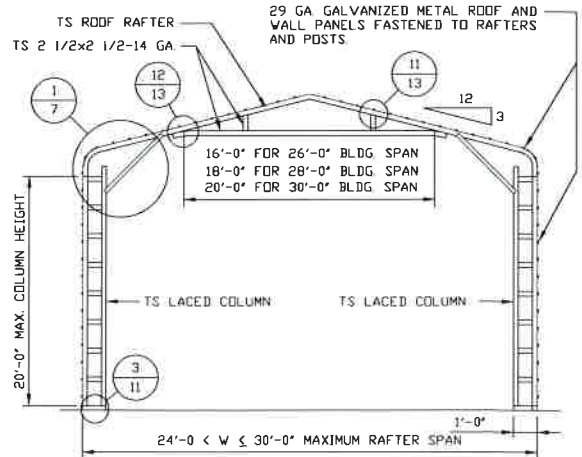
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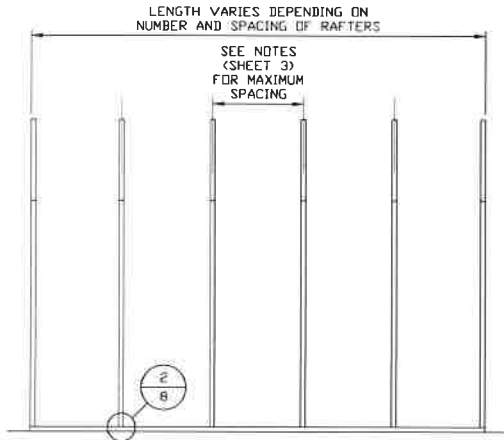
EXPOSURE C



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION
SCALE: NTS

**MOORE AND ASSOCIATES
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PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

**EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 2-9-18

SCALE: NTS

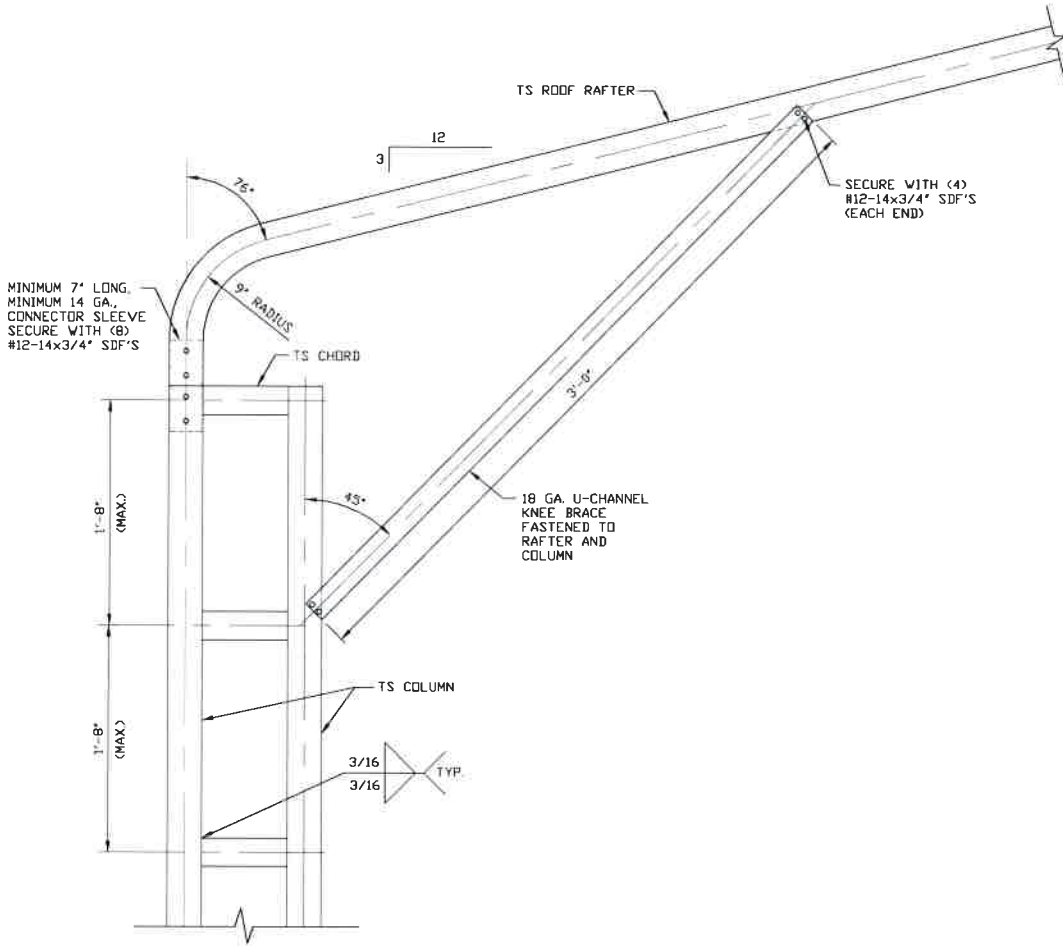
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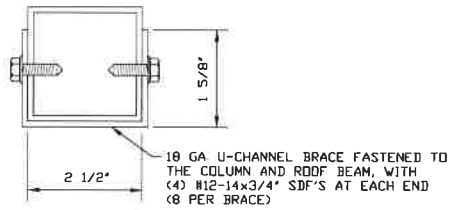
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EXPOSURE B



1A BOW EAVE RAFTER COLUMN CONNECTION
 DETAIL FOR HEIGHTS 18'-0" < TO ≤ 20'-0"
 SCALE: NTS



BRACE SECTION
 SCALE: NTS

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PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
 210 AIRPORT ROAD
 MOUNT AIRY, NC 27030
 30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 2-9-18

SHT. 7A

SCALE: NTS

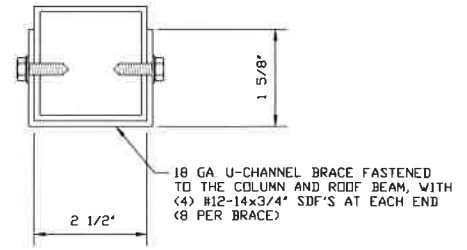
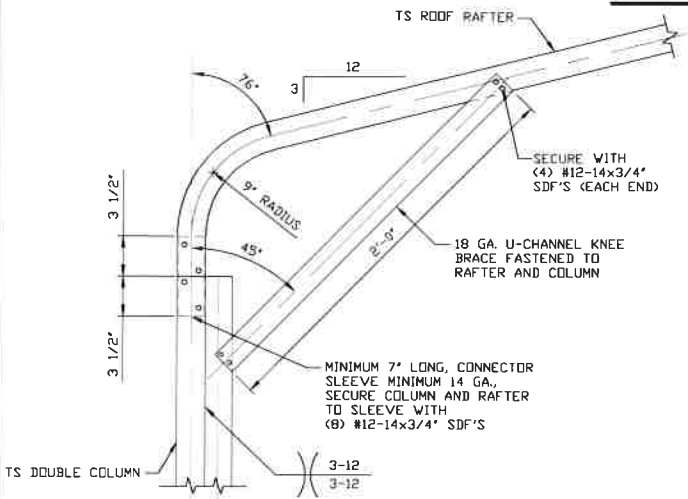
DWG. NO. SK-3

JOB NO. 16166S/18012S

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EXPOSURE B



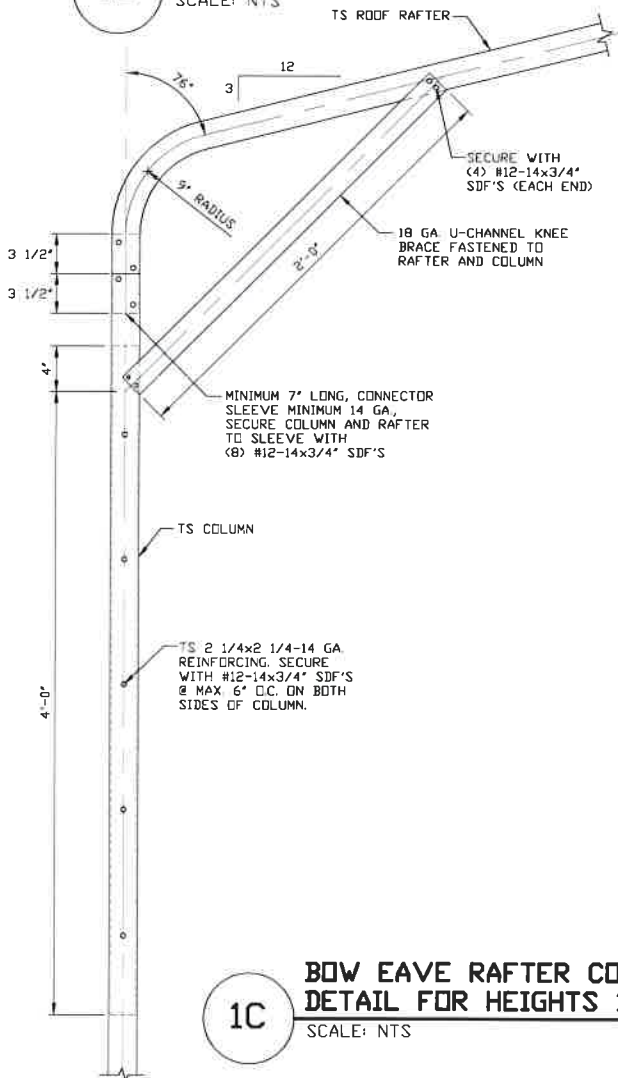
BRACE SECTION

SCALE: NTS

1B

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 15'-0" < TO ≤ 18'-0"

SCALE: NTS



1C

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 15'-0"

SCALE: NTS

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CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 2-9-18

SHT. 7B

SCALE: NTS

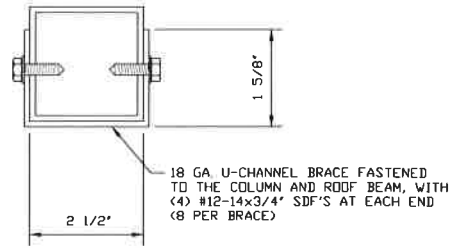
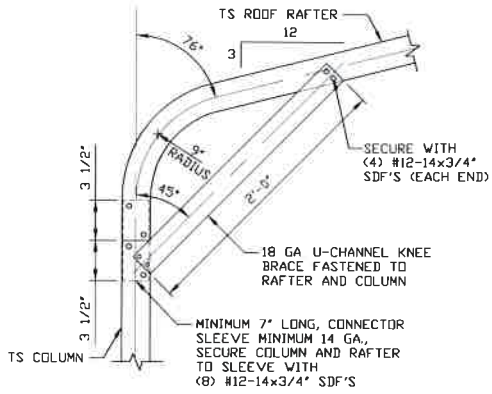
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EXPOSURE B



BRACE SECTION
SCALE: NTS

**BOW EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS ≤ 12'-0"**

1D

SCALE: NTS.

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

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PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 2-9-18

SHT. 7C

SCALE: NTS

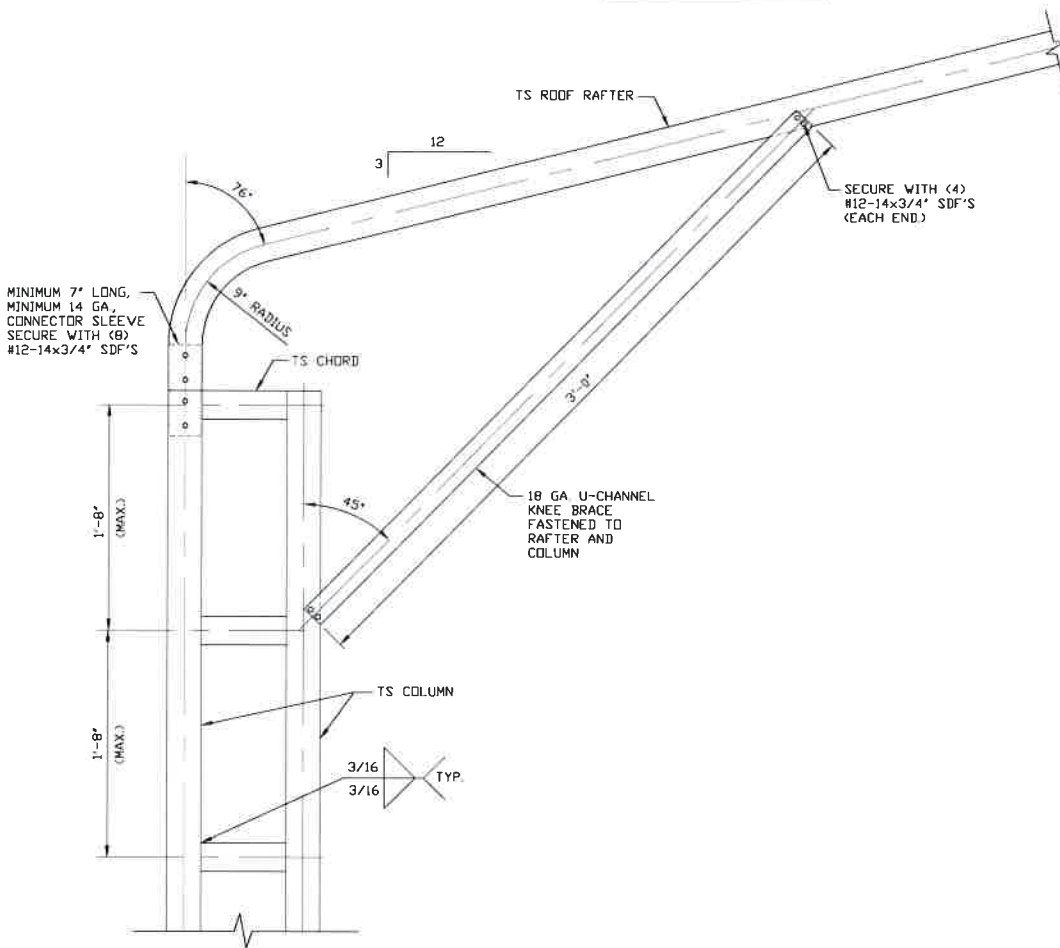
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JOB NO: 16166S/18012S

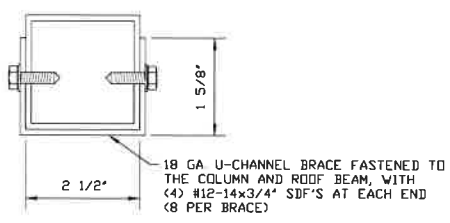
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EXPOSURE C



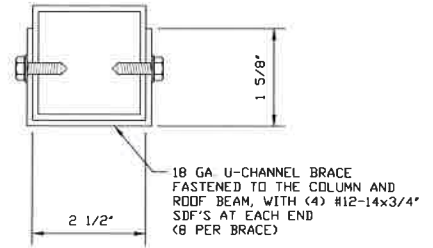
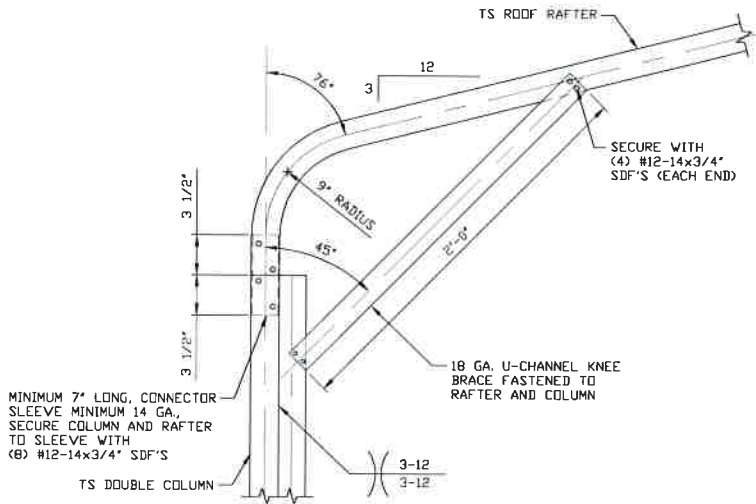
1E BOW EAVE RAFTER COLUMN CONNECTION
 DETAIL FOR HEIGHTS 15'-0" < TO ≤ 20'-0"
 SCALE: NTS



BRACE SECTION
 SCALE: NTS

| | | | | |
|---|------------------------|---|--------------|-----------------------|
| MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC. | DRAWN BY: AT | EAGLE CARPORTS 210 AIRPORT ROAD MOUNT AIRY, NC 27030 30'-0" x 20'-0" SP ENCLOSED STRUCTURE | | |
| | CHECKED BY: PDH | | | |
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| | CLIENT: EAGLE CARPORTS | SHT. 7D | DWG. NO SK-3 | REV: 6 |

EXPOSURE C



BRACE SECTION

SCALE: NTS

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" < TO ≤ 15'-0"

1F

SCALE: NTS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

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PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 2-9-18

SHT. 7E

SCALE: NTS

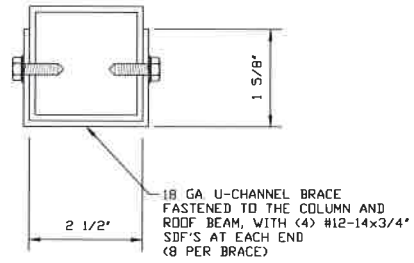
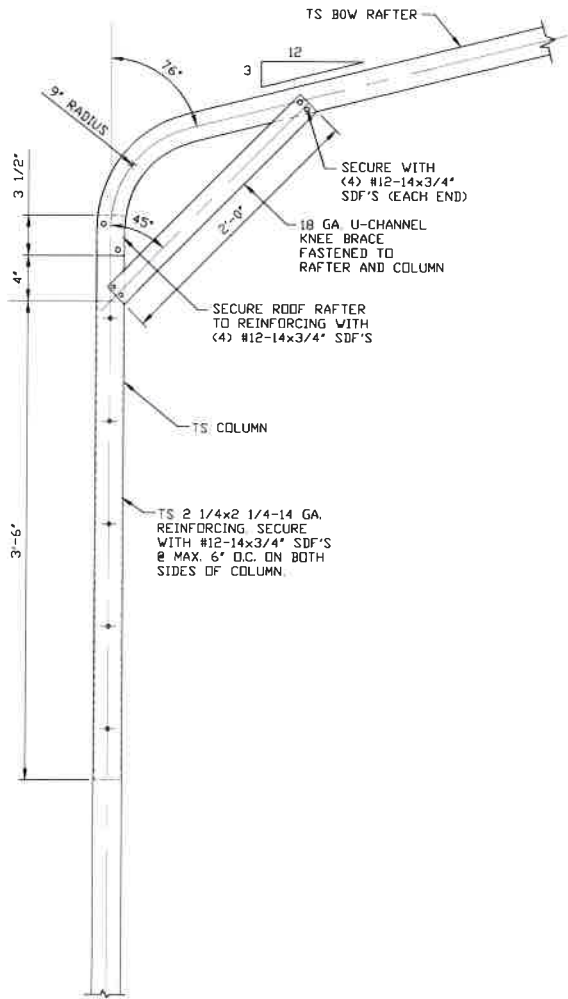
DWG NO: SK-3

JOB NO: 16166S/18012S

REV: 6

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EXPOSURE C



BRACE SECTION

SCALE: NTS

**BOW EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 9'-0" < TO ≤ 13'-0"**

1G

SCALE: NTS

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

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PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 2-9-18

SCALE: NTS

JOB NO: 16166S/18012S

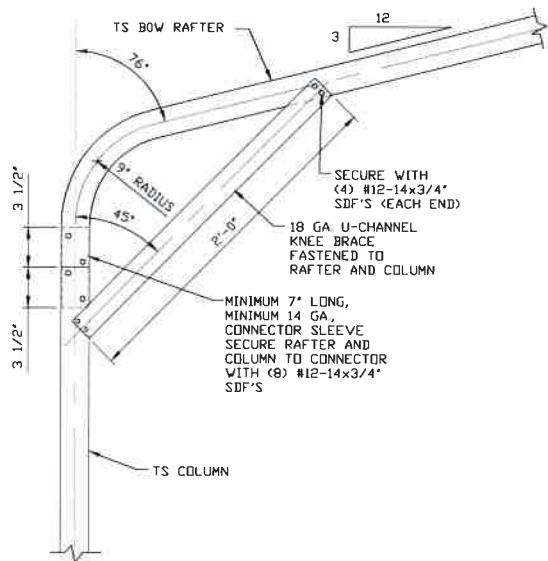
SHT. 7F

DWG. NO: SK-3

REV: 6

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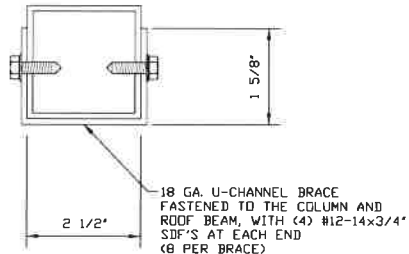
EXPOSURE C



BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 9'-0"

1H

SCALE: NTS



BRACE SECTION

SCALE: NTS

**MOORE AND ASSOCIATES
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EAGLE CARPORTS
210 AIRPORT ROAD
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30'-0"x20'-0" SP ENCLOSED STRUCTURE

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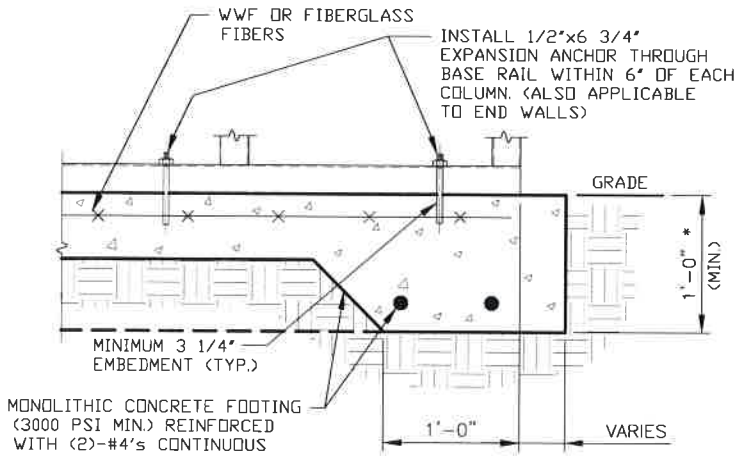
PROJECT MGR: VSM
CLIENT: EAGLE CARPORTS

DATE: 2-9-18
SHT: 7G

SCALE: NTS
DWG. NO: SK-3

JOB NO: 16166S/18012S
REV: 6

BASE RAIL ANCHORAGE OPTIONS

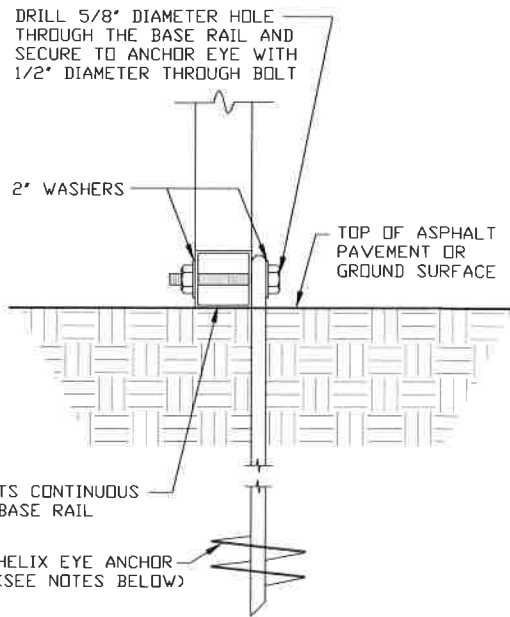


2A

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

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.

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CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0" x 20'-0" SP ENCLOSED STRUCTURE

DATE: 2-9-18

SCALE: NTS

JOB NO: 16166S/18012S

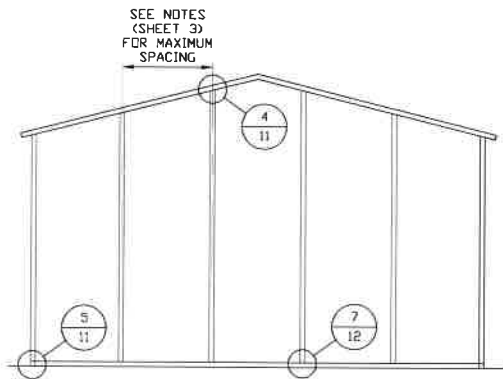
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DWG. NO SK-3

REV: 6

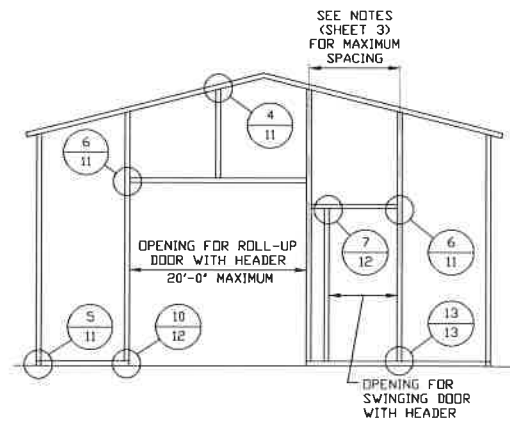
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



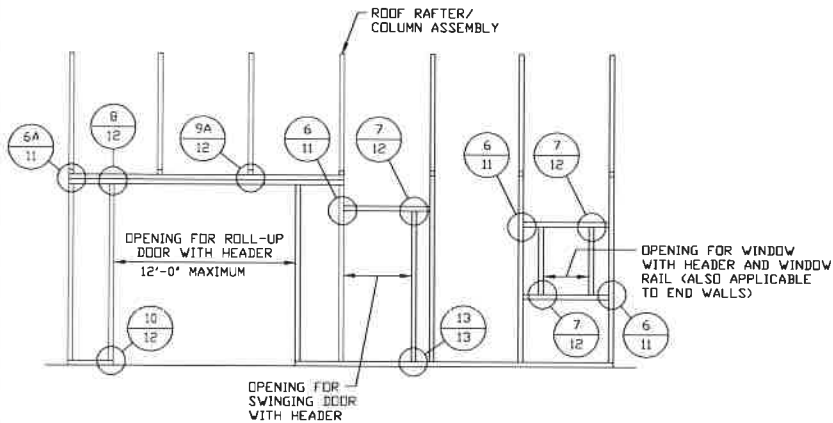
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

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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DATE: 2-9-18

SHT. 9

SCALE: NTS

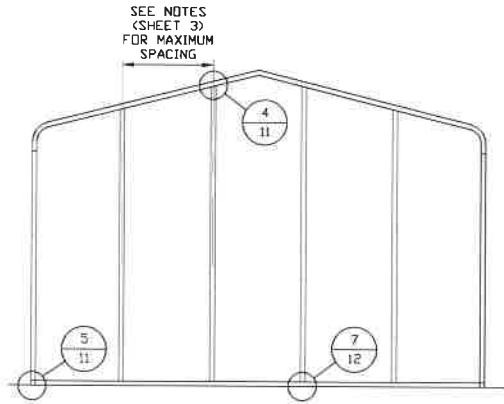
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JOB NO: 16166S/180123

REV: 6

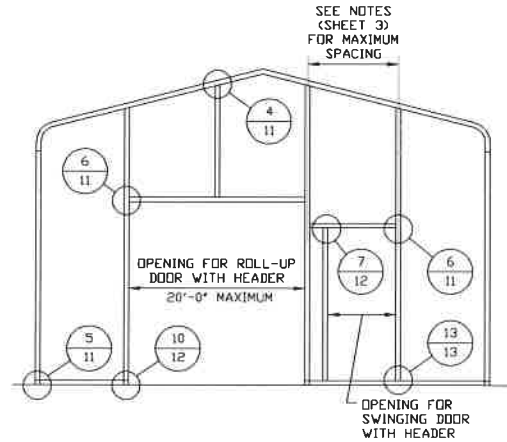
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BOW RAFTER END WALL AND SIDE WALL OPENINGS



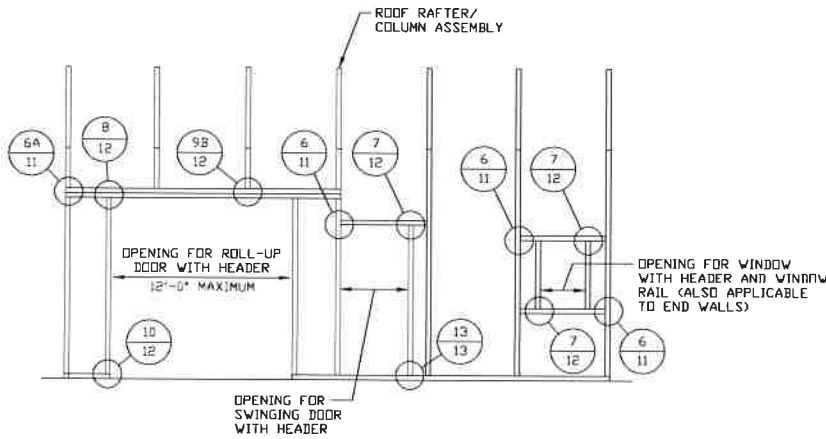
**TYPICAL BOW RAFTER
END WALL FRAMING SECTION**

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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EAGLE CARPORTS
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DATE: 2-9-18

SHT. 10

SCALE: NTS

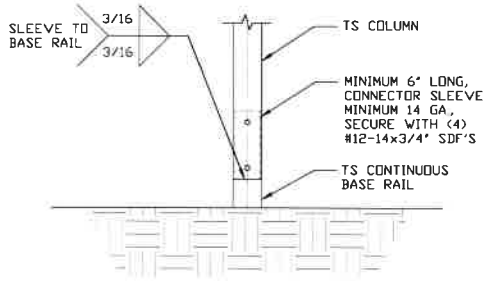
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JOB NO: 16166S/18012S

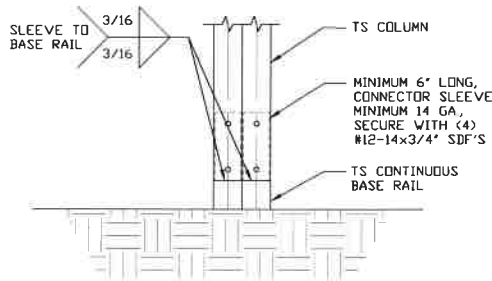
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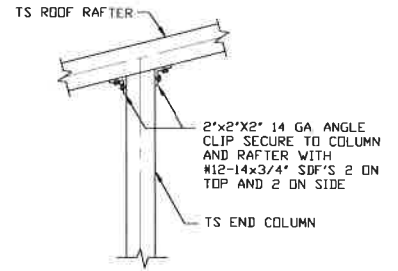
CONNECTION DETAILS



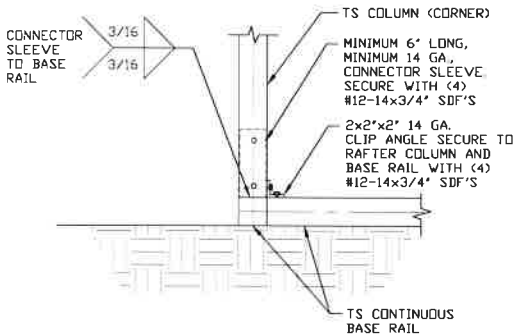
3 RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



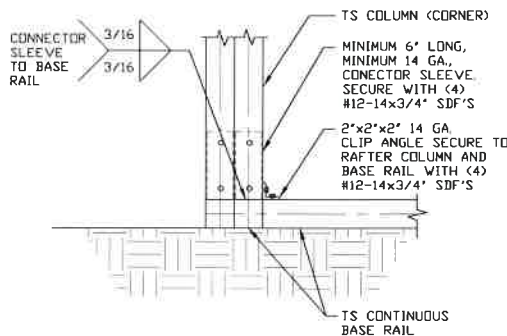
3A RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



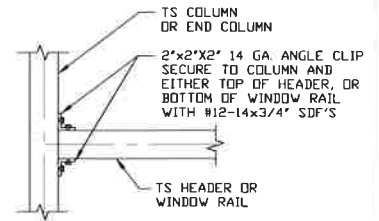
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



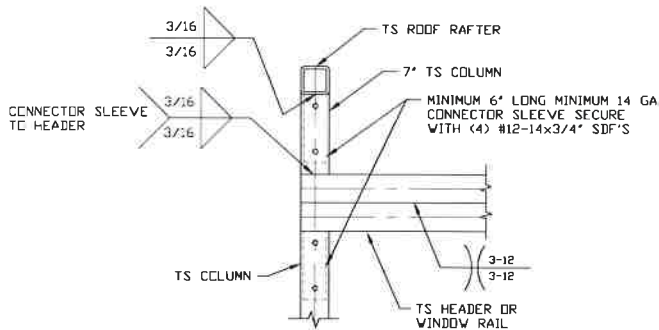
5 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



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



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



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

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CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
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MOUNT AIRY, NC 27030
30'-0" x 20'-0" SP ENCLOSED STRUCTURE

DATE: 2-9-18

SHT. 11

SCALE: NTS

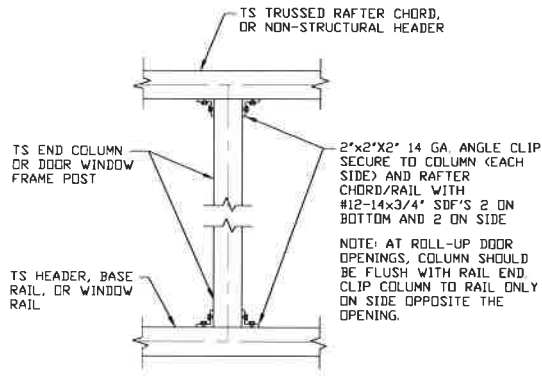
DWG. NO. SK-3

JOB NO. 16166S/18012S

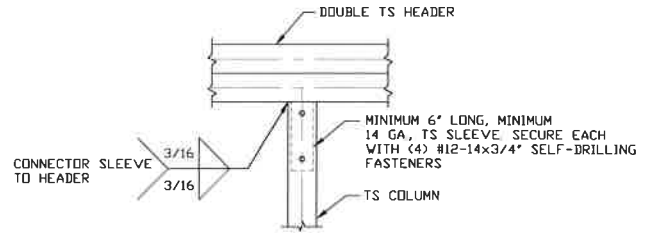
REV. 6

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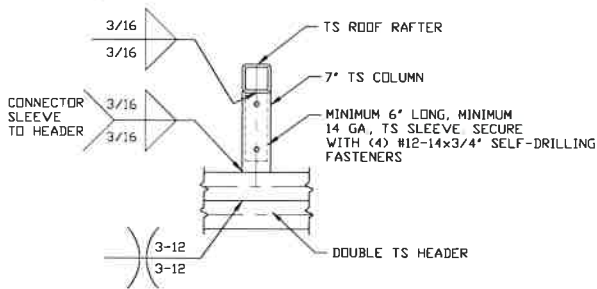
CONNECTION DETAILS



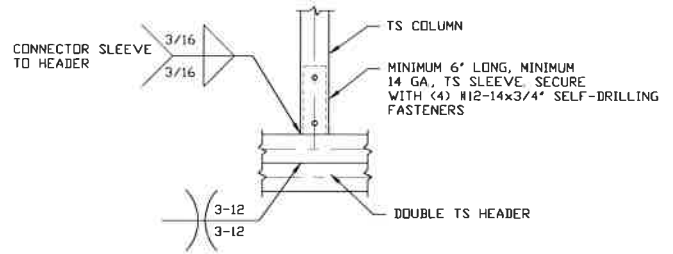
7 COLUMN TO WINDOW RAIL CONNECTION DETAIL
SCALE: NTS



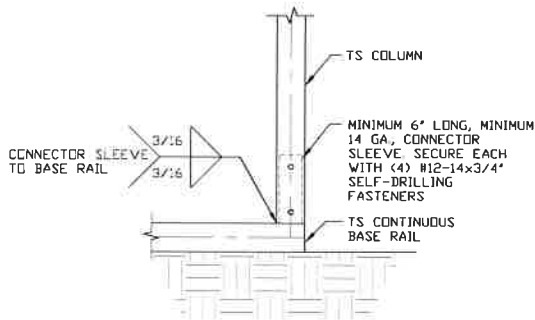
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



9A COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



9B COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



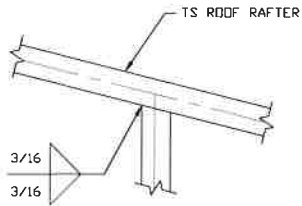
10 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

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| CHECKED BY: PDH | | | |
| PROJECT MGR: WSM | DATE: 2-9-18 | SCALE: NTS | JOB NO: 16166S/18012S |
| CLIENT: EAGLE CARPORTS | SHT. 12 | DWG. NO: SK-3 | REV: 6 |

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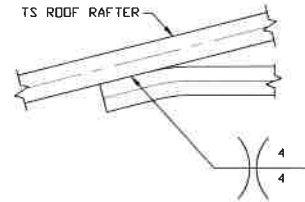
CONNECTION DETAILS



11

RAFTER TO CHORD CONNECTION DETAIL

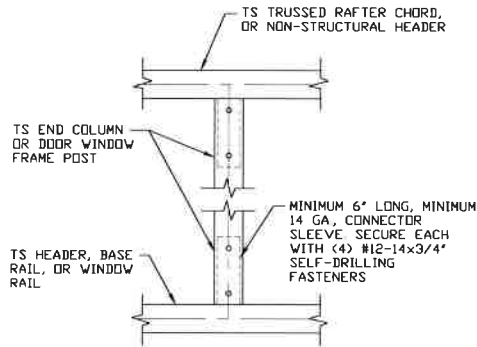
SCALE: NTS



12

COLLAR TIE CONNECTION DETAIL

SCALE: NTS



13

COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

SCALE: NTS

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DATE: 2-9-18

SCALE: NTS

JOB NO: 16166S/18012S

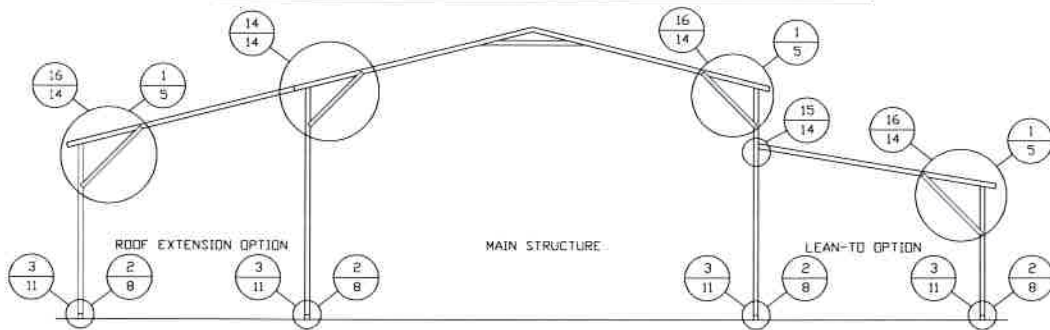
SHT. 13

DWG. NO: SK-3

REV: 6

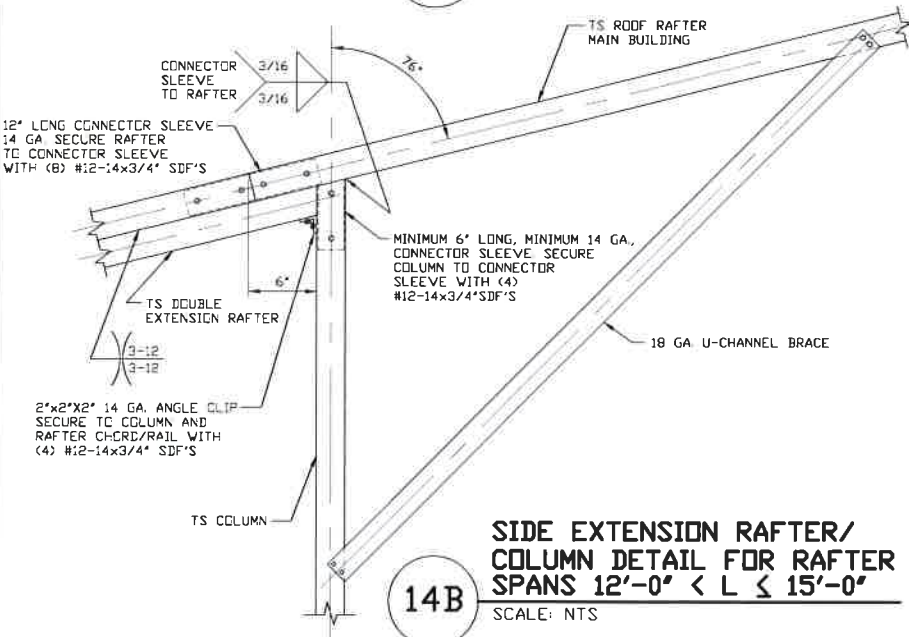
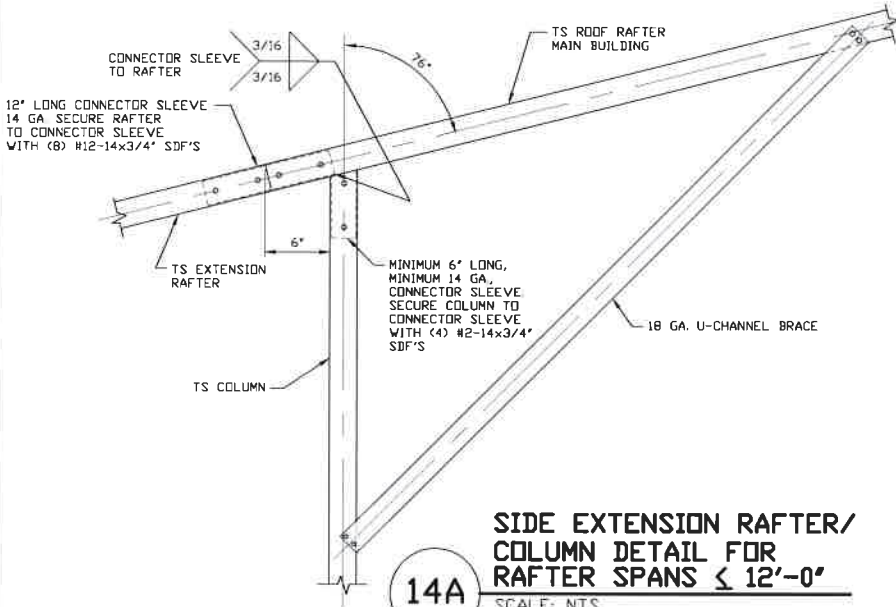
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BOX EAVE RAFTER LEAN-TO OPTIONS



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

SCALE: NTS



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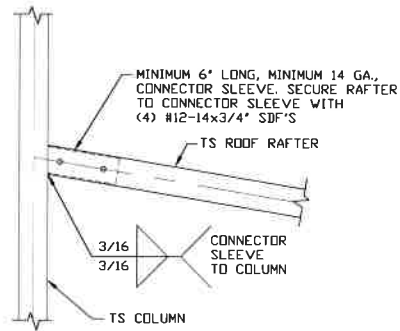
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CLIENT: EAGLE CARPORTS

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DATE: 2-9-18 **SCALE: NTS** **JOB NO: 16166S/18012S**
SHT. 14 **DWG. NO: SK-3** **REV: 6**

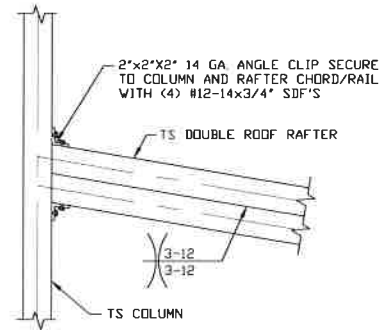
BOX EAVE RAFTER LEAN-TO OPTIONS



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

15A

SCALE: NTS



**LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS $12'-0'' < L \leq 15'-0''$**

15B

SCALE: NTS

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DATE: 2-9-18

SCALE: NTS

JOB NO: 16166S/18012S

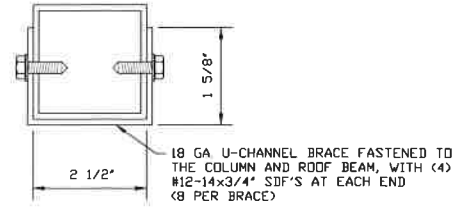
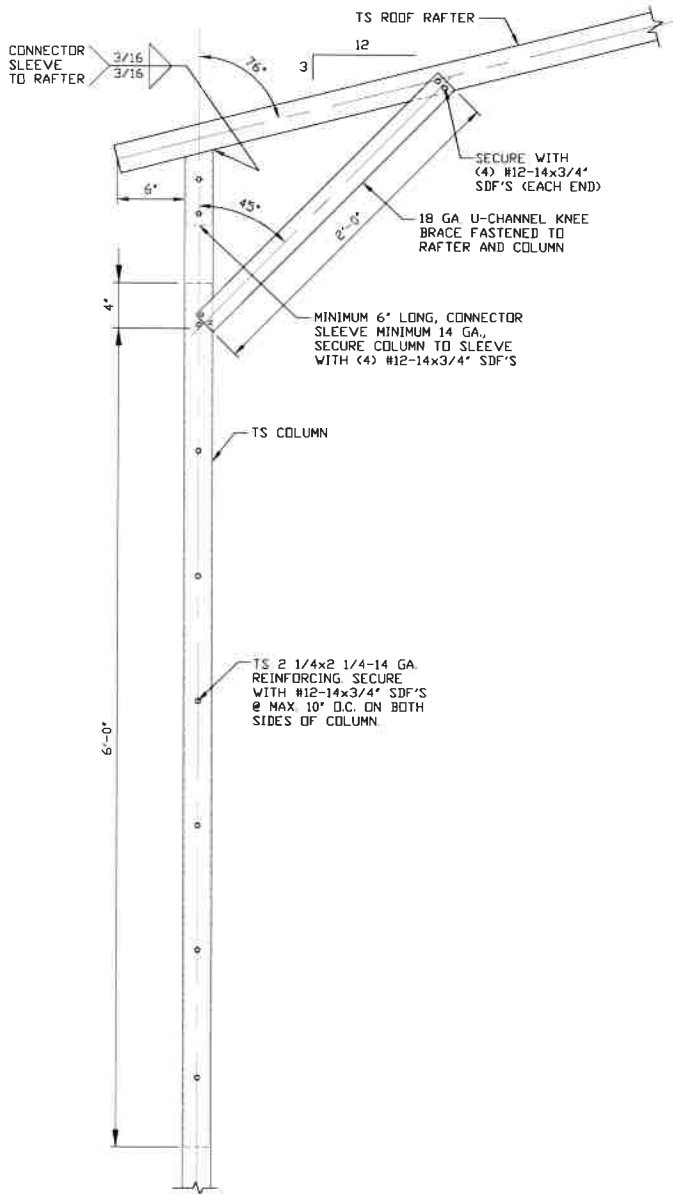
SHT. 14A

DWG. NO: SK-3

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BOX EAVE RAFTER LEAN-TO OPTION - EXPOSURE B



BRACE SECTION

SCALE: NTS

16A

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO ≤ 20'-0"

SCALE: NTS
HORSE BARN OPTION REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.

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DATE: 2-9-18

SHT. 14B

SCALE: NTS

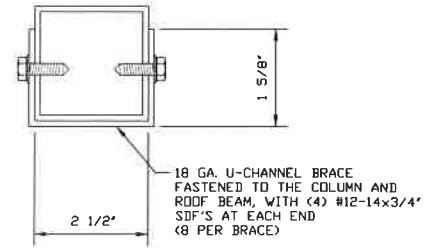
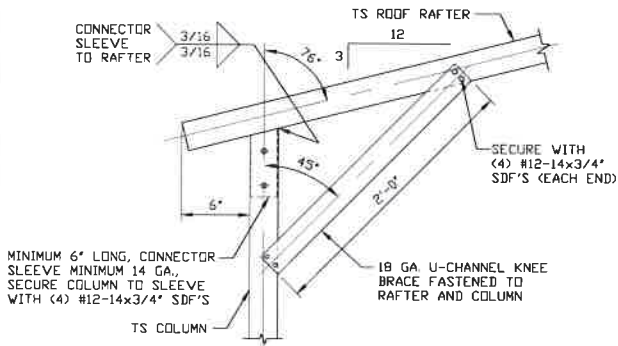
DWG. NO: SK-3

JOB NO: 16166S/18012S

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BOX EAVE RAFTER LEAN-TO OPTION - EXPOSURE B



BRACE SECTION
SCALE: NTS

16B

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS $\leq 14'-0"$

SCALE: NTS

HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.)

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DATE: 2-9-18

SCALE: NTS

JOB NO: 16166S/18012S

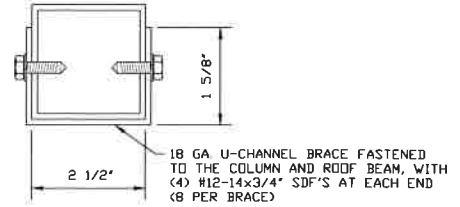
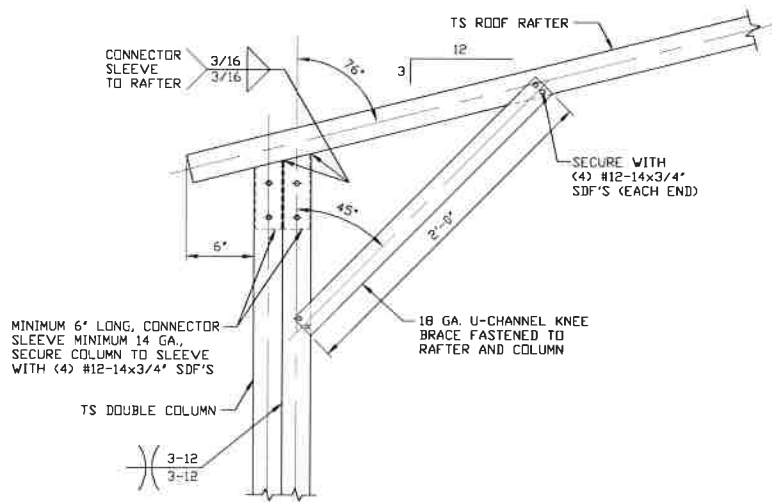
SHT. 14C

DWG. NO: SK-3

REV: 6

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BOX EAVE RAFTER LEAN-TO OPTION - EXPOSURE C



BRACE SECTION
SCALE: NTS

16C

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 18'-0" < TO ≤ 20'-0"

SCALE: NTS
HORSE BARN OPTION REQUIRES A LEAN-TO ON BOTH
SIDES OF THE MAIN BUILDING.

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PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 2-9-18

SCALE: NTS

JOB NO: 16166S/18012S

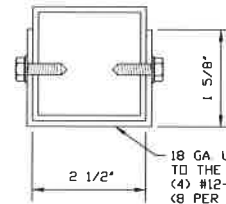
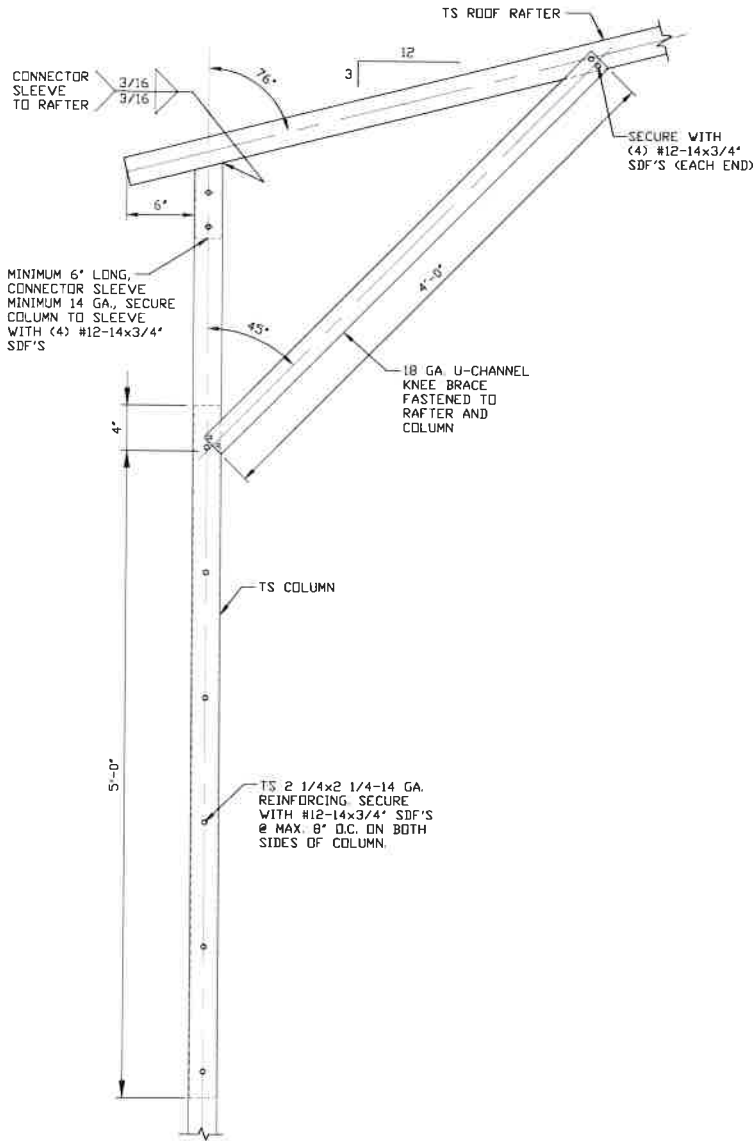
SHT. 14D

DWG. NO SK-3

REV. 6

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BOX EAVE RAFTER LEAN-TO OPTION - EXPOSURE C



BRACE SECTION
SCALE: NTS

18 GA U-CHANNEL BRACE FASTENED TO THE COLUMN AND ROOF BEAM, WITH (4) #12-14x3/4" SDF'S AT EACH END (8 PER BRACE)

16D **BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 13'-0" < TO ≤ 18'-0"**

SCALE: NTS
HORSE BARN OPTION REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.

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CLIENT: EAGLE CARPORTS

**EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 2-9-18

SCALE: NTS

JOB NO: 16166S/18012S

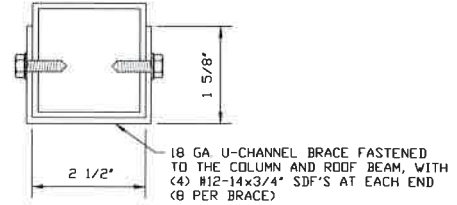
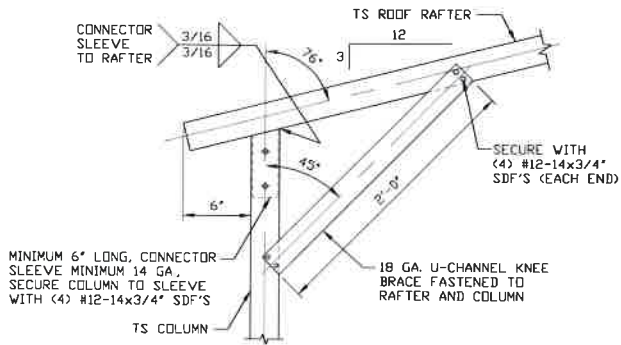
SHT. 14E

DWG. NO: SK-3

REV. 6

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BOX EAVE RAFTER LEAN-TO OPTION - EXPOSURE C



BRACE SECTION

SCALE: NTS

16E

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 13'-0"

SCALE: NTS

HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.)

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

DRAWN BY: AT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 2-9-18

SCALE: NTS

JOB NO: 16166S/18012S

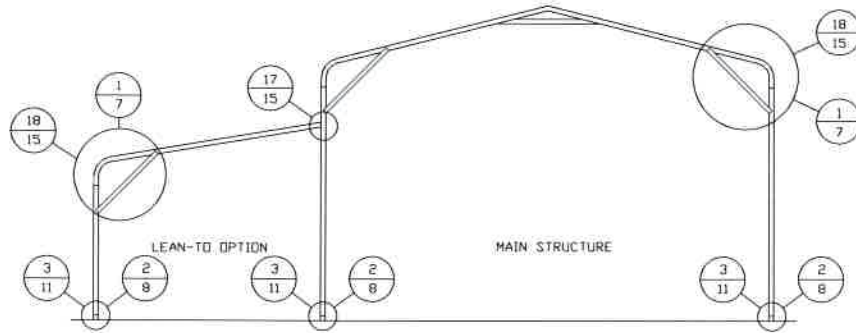
SHT. 14F

DWG. NO: SK-3

REV. 6

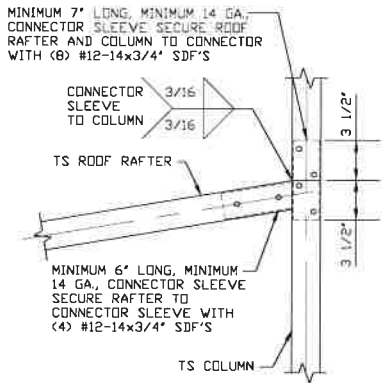
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BOW EAVE RAFTER LEAN-TO OPTION



TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

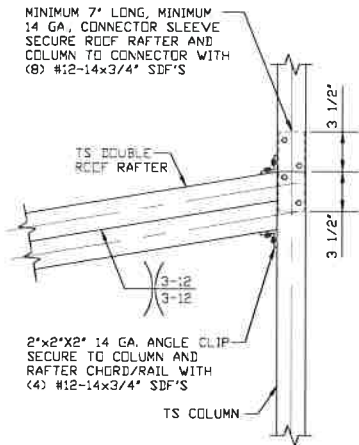
SCALE: NTS



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

17A

SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $12'-0'' < L \leq 15'-0''$

17B

SCALE: NTS

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**EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 2-9-18

SCALE: NTS

JOB NO: 16166S/18012S

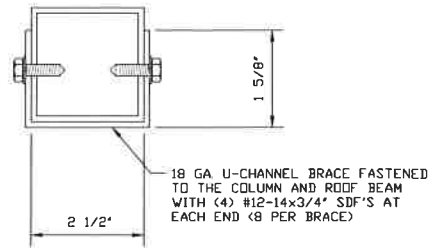
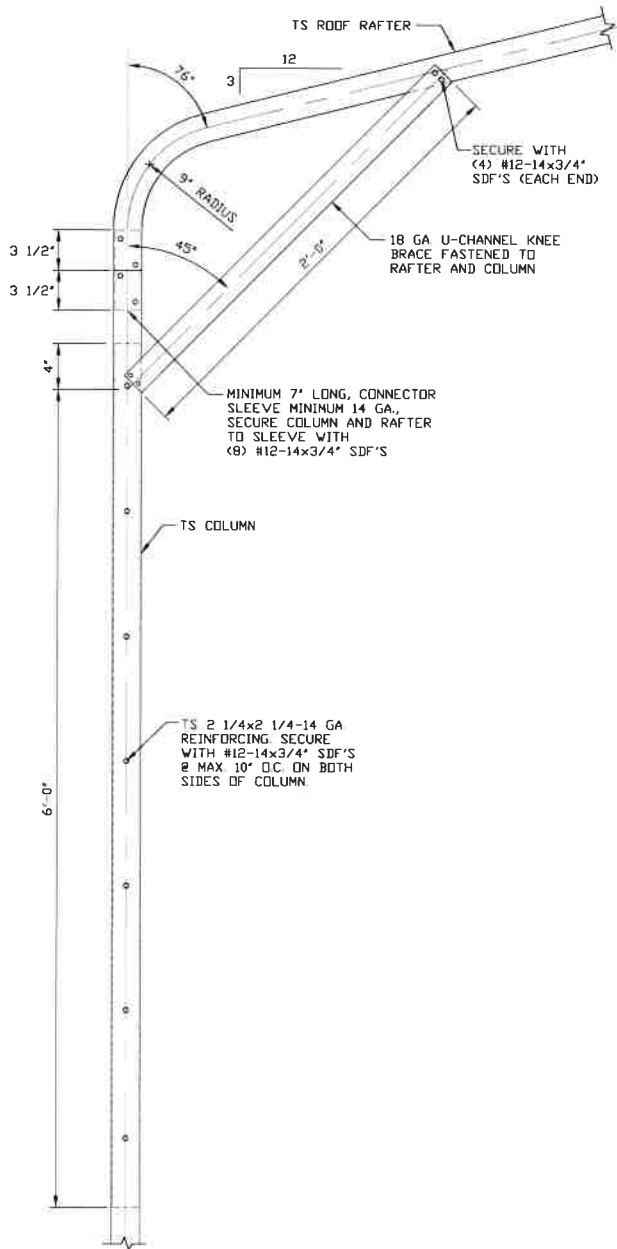
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BOW EAVE RAFTER LEAN-TO OPTION - EXPOSURE B



BRACE SECTION
SCALE: NTS

18A

**BOW EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 14'-0" < TO ≤ 20'-0"**

SCALE: NTS
HORSE BARN OPTION REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.

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PROJECT MGR: VSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 2-9-18

SCALE: NTS

JOB NO: 16166S/18012S

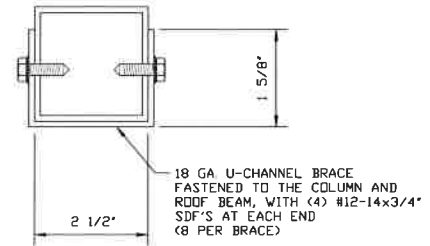
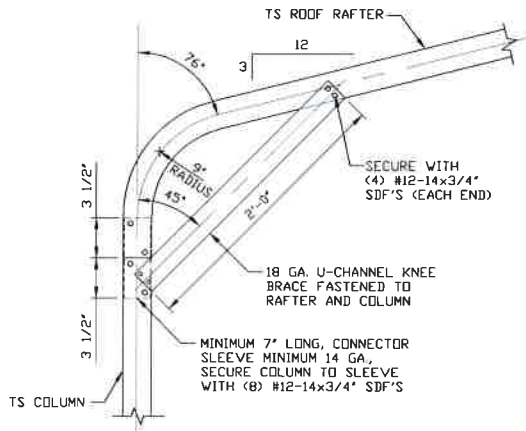
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DWG. NO SK-3

REV: 6

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BOW EAVE RAFTER LEAN-TO OPTION - EXPOSURE B

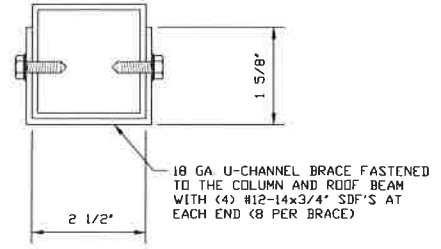
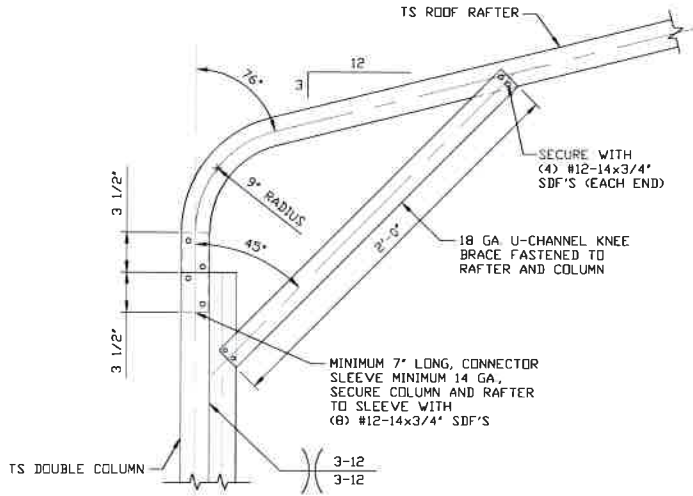


BRACE SECTION
SCALE: NTS

18B **BOW EAVE RAFTER COLUMN CONNECTION**
DETAIL FOR HEIGHTS ≤ 14'-0"
SCALE: NTS
HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.)

| | | | | |
|---|------------------------|--------------|---|-----------------------|
| MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC. | DRAWN BY: AT | | EAGLE CARPORTS 210 AIRPORT ROAD MOUNT AIRY, NC 27030 30'-0"x20'-0" SP ENCLOSED STRUCTURE | |
| | CHECKED BY: PDH | | | |
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| | CLIENT: EAGLE CARPORTS | SHT. 15B | DWG. NO: SK-3 | REV: 6 |

BOW EAVE RAFTER LEAN-TO OPTION - EXPOSURE C



BRACE SECTION
SCALE: NTS

18C

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 18'-0" < TO ≤ 20'-0"

SCALE: NTS
HORSE BARN OPTION REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.

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ENGINEERING AND CONSULTING, INC.**

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PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0" x 20'-0" SP ENCLOSED STRUCTURE

DATE: 2-9-18

SCALE: NTS

JOB NO: 16166S/18012S

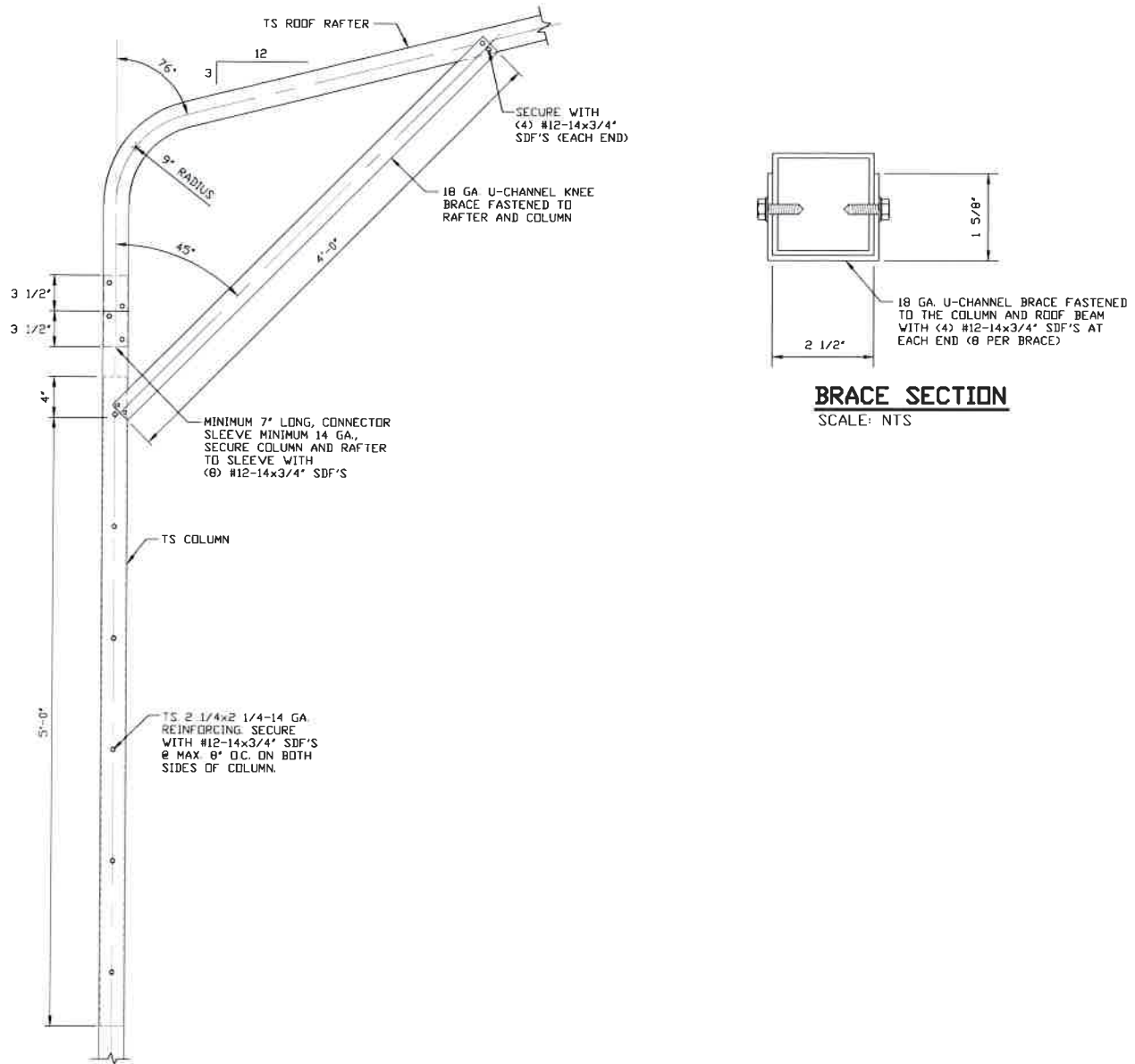
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BOW EAVE RAFTER LEAN-TO OPTION - EXPOSURE C



18D

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" < TO ≤ 18'-0"

SCALE: NTS
HORSE BARN OPTION REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.

MOORE AND ASSOCIATES
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PROJECT MGR: VSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
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MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 2-9-18

SHT. 150

SCALE: NTS

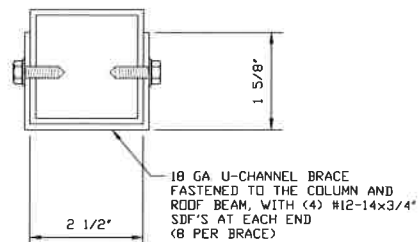
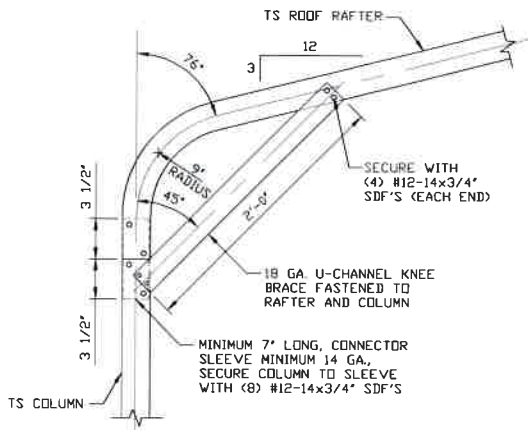
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JOB NO: 16166S/18012S

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BOW EAVE RAFTER LEAN-TO OPTION - EXPOSURE C



BRACE SECTION

SCALE: NTS

18E

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 13'-0"

SCALE: NTS

HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING.)

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210 AIRPORT ROAD
MOUNT AIRY, NC 27030
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DATE: 2-9-18

SCALE: NTS

JOB NO: 16166S/18012S

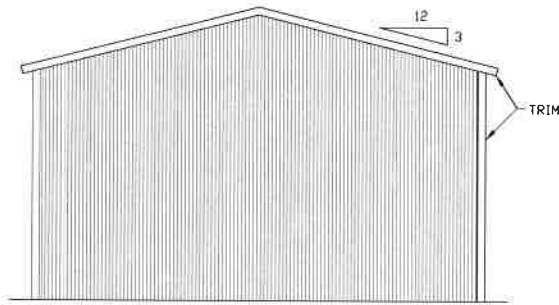
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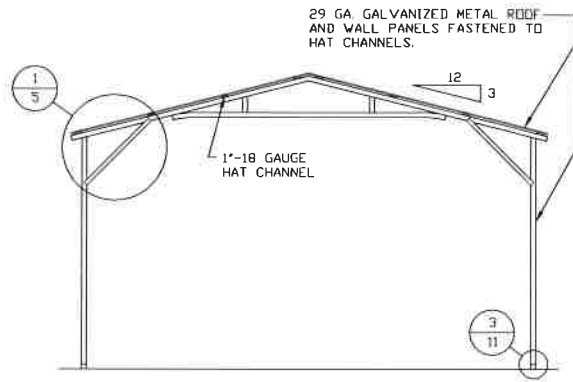
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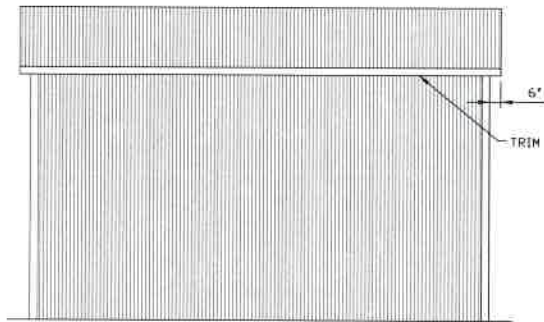
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



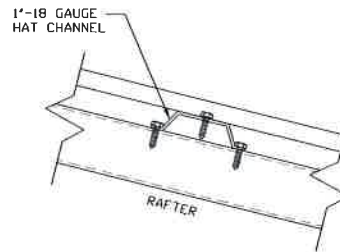
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**
SCALE: NTS



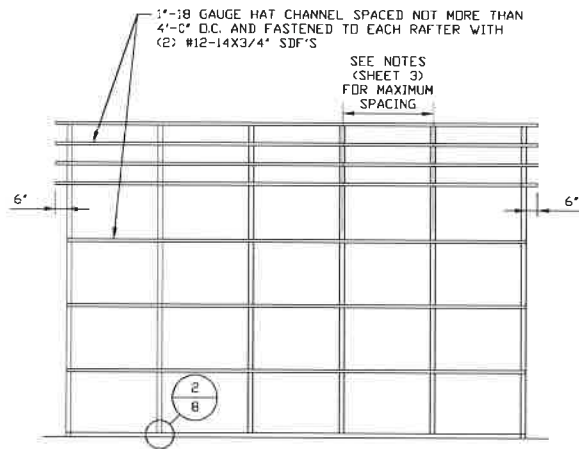
**TYPICAL SECTION VERTICAL
ROOF/SIDING OPTION**
SCALE: NTS



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



PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS



**TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION**
SCALE: NTS

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**EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0" x 20'-0" SP ENCLOSED STRUCTURE**

DATE: 2-9-18

SHT. 16

SCALE: NTS

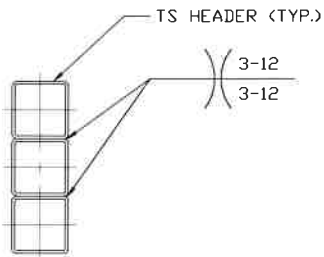
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HEADER OPTION



HEADER DETAIL FOR 12'-0" < LENGTHS ≤ 16'-0"

SCALE: NTS

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SHT. 17

DWG. NO SK-3

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