

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**

19 August 2021

Revision 9

M&A Project No. 16166S/17207S/17293S/18012S/18260S/19320S/21169S

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**





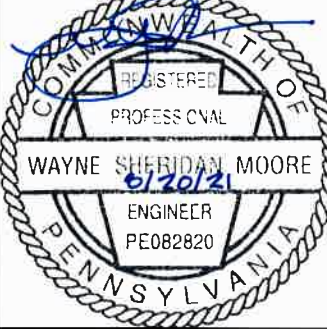

**401 S. Main Street, Suite 200
Mount Airy, NC 27030**



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING**

		<p>I HAVE RESEARCHED THIS CHAPTER AND THE LOUISIANA STATE UNIFORM CONSTRUCTION CODE AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, THESE DRAWINGS ARE IN COMPLIANCE THEREWITH. I TAKE FULL RESPONSIBILITY FOR THE CONTENTS OF THESE PLANS.</p>	

<p>MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.</p>	<p>DRAWN BY: LT</p>	<p>EAGLE CARPORTS 210 AIRPORT ROAD MOUNT AIRY, NC 27030 30'-0"x20'-0" SP ENCLOSED STRUCTURE</p>		
	<p>CHECKED BY: PDH</p>	<p>PROJECT MGR: WSM</p>	<p>DATE: 8-19-21</p>	<p>SCALE: NTS JOB NO: 16166S/ 18260S/19320S/21169S</p>
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	<p>Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 49744, Expiration Date 6/20/21 <u>6/22/2022</u></p>		
			
			
			

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	CLIENT: EAGLE CARPORTS			

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 ALL THE APPLICABLE BUILDING CODES LISTED ON SHEET 3A.
3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 15 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 35 PSF
 NOTE: UNBALANCED LOADING DUE TO SNOW DRIFTING FROM AN ADJACENT TALLER STRUCTURE HAS NOT BEEN EVALUATED
4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH)
5. MAXIMUM RAFTER/POST AND END POST SPACING = 50 FEET (UNLESS NOTED OTHERWISE)
6. END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL POSTS IN SIZE AND SPACING UNLESS NOTED OTHERWISE
7. RISK CATEGORY I
8. WIND EXPOSURE CATEGORY B/C
9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2"x2 1/2"-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS
10. AVERAGE PANEL FASTENER SPACING ON-CENTERS = 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. ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF LAP JOINT SEALANT
12. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL AT OR WITHIN 6" OF EVERY RAFTER COLUMN
13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG AND MAY BE USED IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED
14. CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE AND FOUNDATION ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND, THEREFORE, REQUIRE ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION
15. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 - SOIL SITE CLASS = D
 - RISK CATEGORY I
 - R= 325 $I_e = 1.0$
 - $S_{DS} = 2.039\ g$ $V = C_s W$
 - $S_{D1} = 1.258\ g$

Jun23-1051

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	DWG. NO: SK-3			

LIST OF APPLICABLE BUILDING CODES

<p>2018 INTERNATIONAL BUILDING CODE (IBC 2018)</p> <p>2015 INTERNATIONAL BUILDING CODE (IBC 2015)</p> <p>2012 INTERNATIONAL BUILDING CODE (IBC 2012)</p> <p>2009 INTERNATIONAL BUILDING CODE (IBC 2009)</p> <p>2006 INTERNATIONAL BUILDING CODE (IBC 2006)</p> <p>BUILDING CODE 2015 OF ALABAMA (ADOPTS THE IBC 2015 WITH AMENDMENTS)</p> <p>2020 FLORIDA BUILDING CODE, 7TH EDITION</p> <p>GEORGIA STATE MINIMUM STANDARD BUILDING CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)</p> <p>INDIANA BUILDING CODE, 2014 EDITION (ADOPTS THE IBC 2012 WITH AMENDMENTS)</p> <p>BUILDING CODE 2018 OF KANSAS (ADOPTS THE IBC 2018 WITH AMENDMENTS)</p> <p>2018 KENTUCKY BUILDING CODE (ADOPTS THE IBC 2015 WITH AMENDMENTS)</p> <p>BUILDING CODE 2015 OF LOUISIANA (ADOPTS THE IBC 2015 WITH AMENDMENTS)</p> <p>BUILDING CODE 2018 OF MARYLAND (ADOPTS THE IBC 2018 WITH AMENDMENTS)</p> <p>BUILDING CODE 2015 OF NEW MEXICO (ADOPTS THE IBC 2015 WITH AMENDMENTS)</p> <p>2018 NORTH CAROLINA BUILDING CODE (ADOPTS THE IBC 2015 WITH AMENDMENTS)</p> <p>OHIO BUILDING CODE 2017 (ADOPTS THE 2015 WITH AMENDMENTS)</p> <p>BUILDING CODE 2015 OF OKLAHOMA (ADOPTS THE IBC 2015 WITH AMENDMENTS)</p>	<p>BUILDING CODE 2015 OF PENNSYLVANIA (ADOPTS THE IBC 2015 WITH AMENDMENTS)</p> <p>2018 SOUTH CAROLINA BUILDING CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)</p> <p>BUILDING CODE 2012 OF TENNESSEE (ADOPTS THE IBC 2012 WITH AMENDMENTS)</p> <p>BUILDING CODE OF THE TEXAS INDUSTRIALIZED HOUSING AND BUILDINGS PROGRAM (ADOPTS THE IBC 2015 WITH AMENDMENTS)</p> <p>2018 VIRGINIA CONSTRUCTION CODE (ADOPTS THE IBC 2015 WITH AMENDMENTS)</p> <p>BUILDING CODE 2015 OF WEST VIRGINIA (ADOPTS THE IBC 2015 WITH AMENDMENTS)</p>
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EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 8-19-21

SCALE: NTS

SHT. 3A

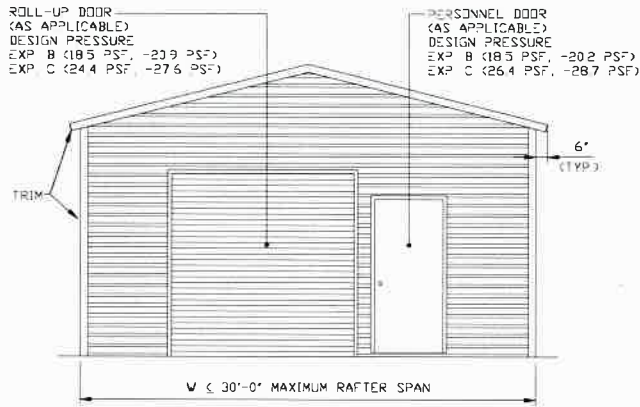
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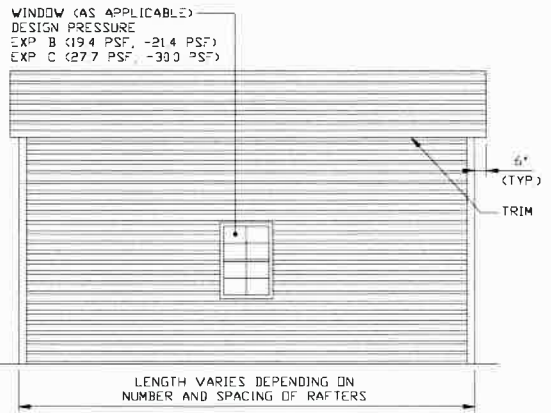
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BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

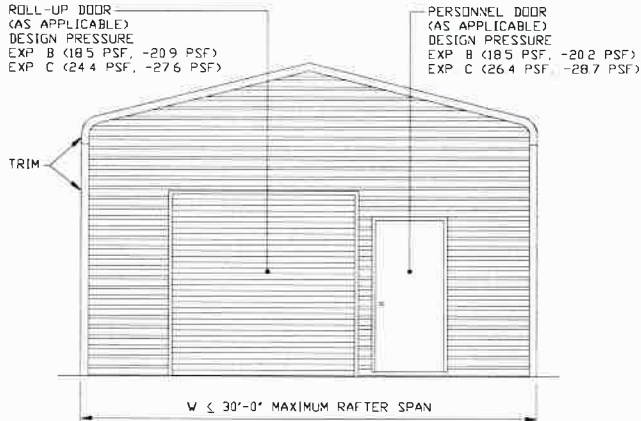
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TYPICAL SIDE ELEVATION

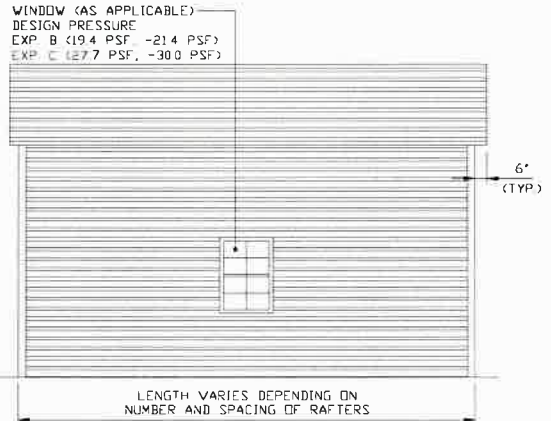
SCALE: NTS

BOW FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

SCALE: NTS



TYPICAL SIDE ELEVATION

SCALE: NTS

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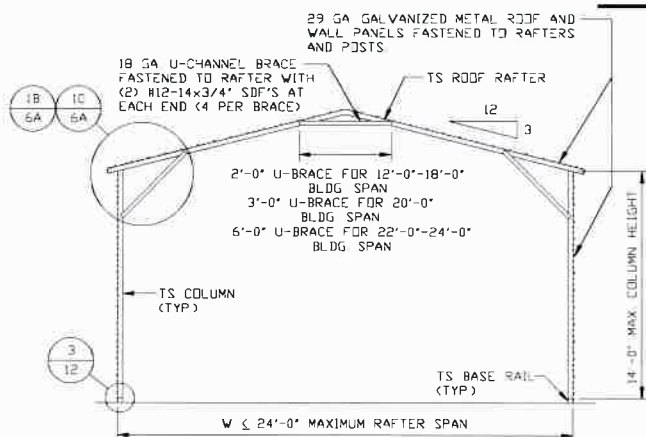
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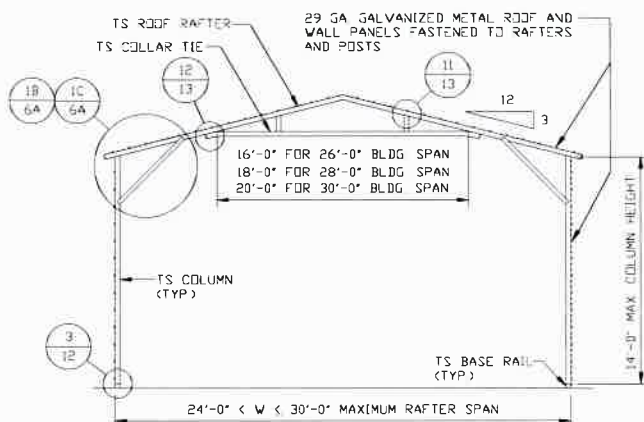
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EXPOSURE B



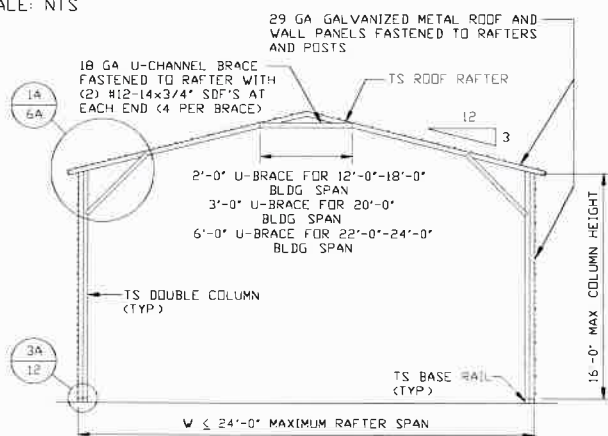
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



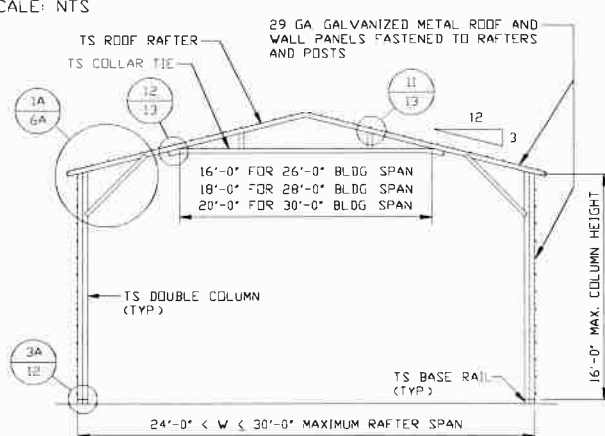
TYPICAL RAFTER/COLUMN END FRAME SECTION

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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SHT. 5

SCALE: NTS

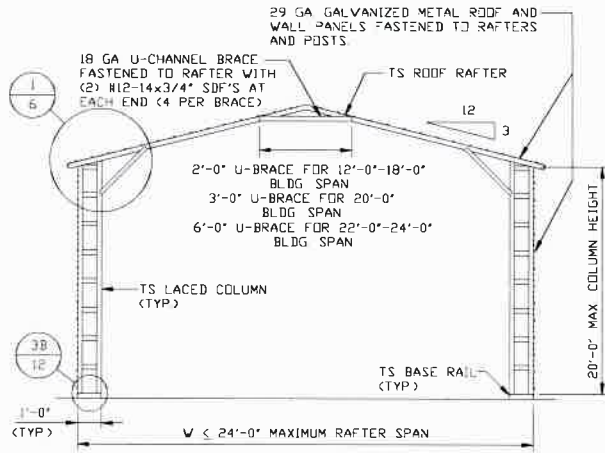
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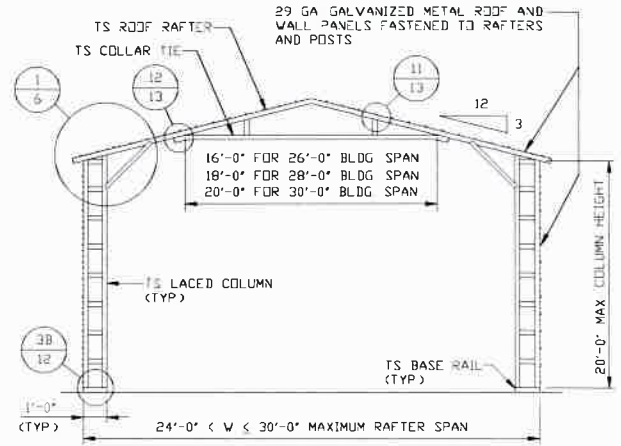
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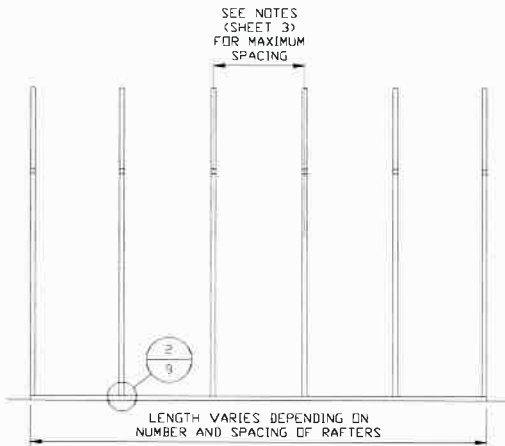
EXPOSURE B



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

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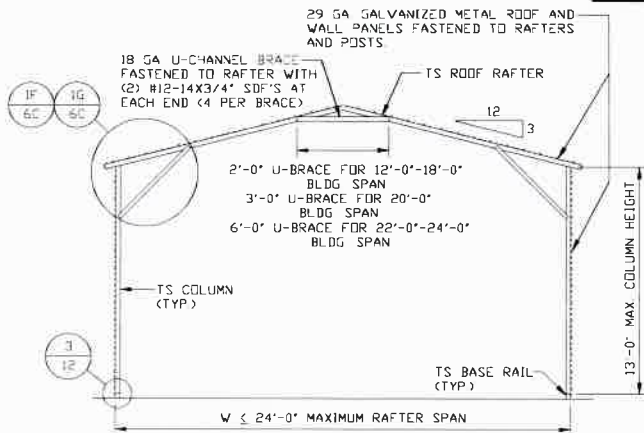
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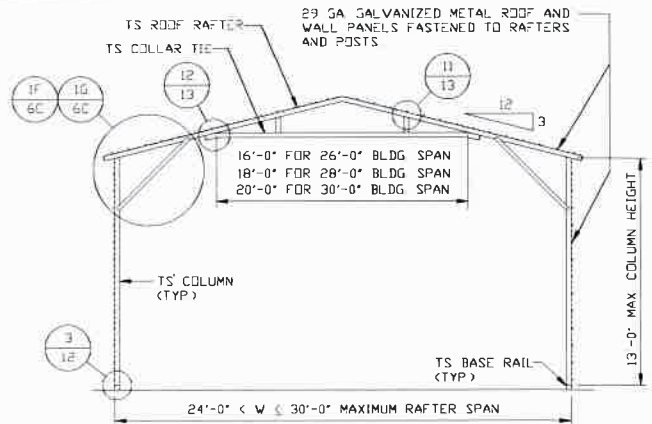
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EXPOSURE C



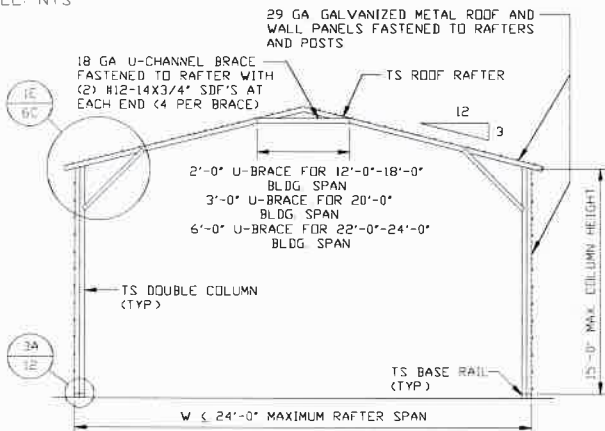
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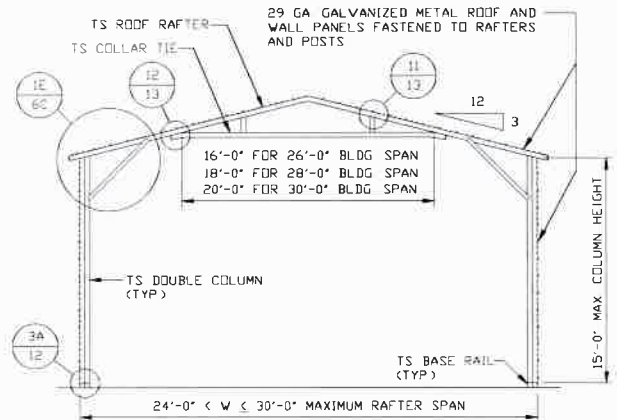
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

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

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CLIENT: EAGLE CARPORTS

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SHT. 5B

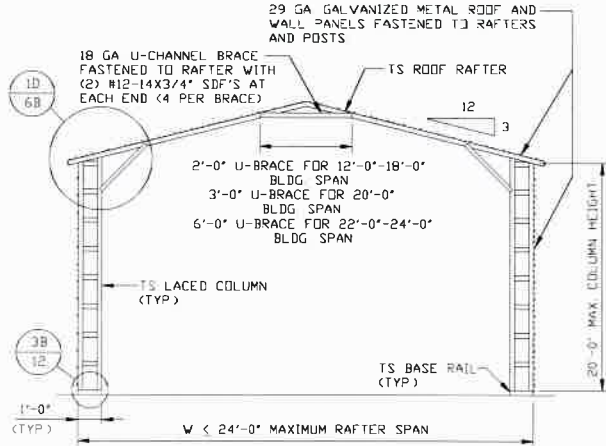
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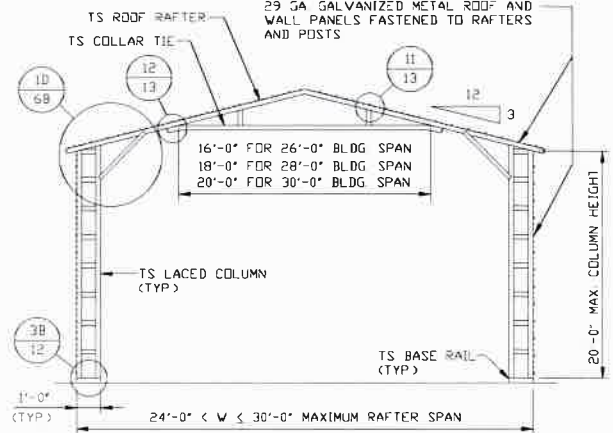
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EXPOSURE C



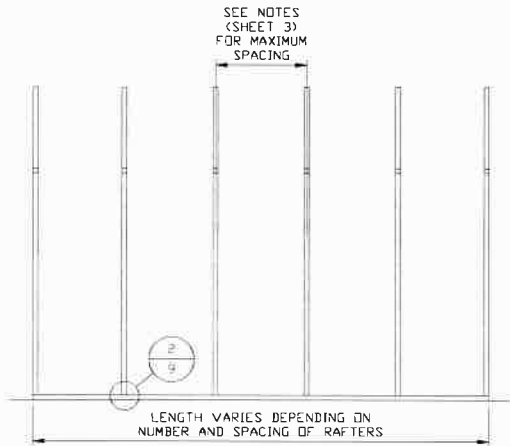
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

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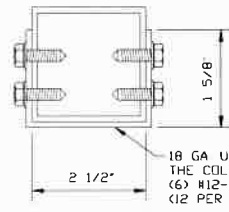
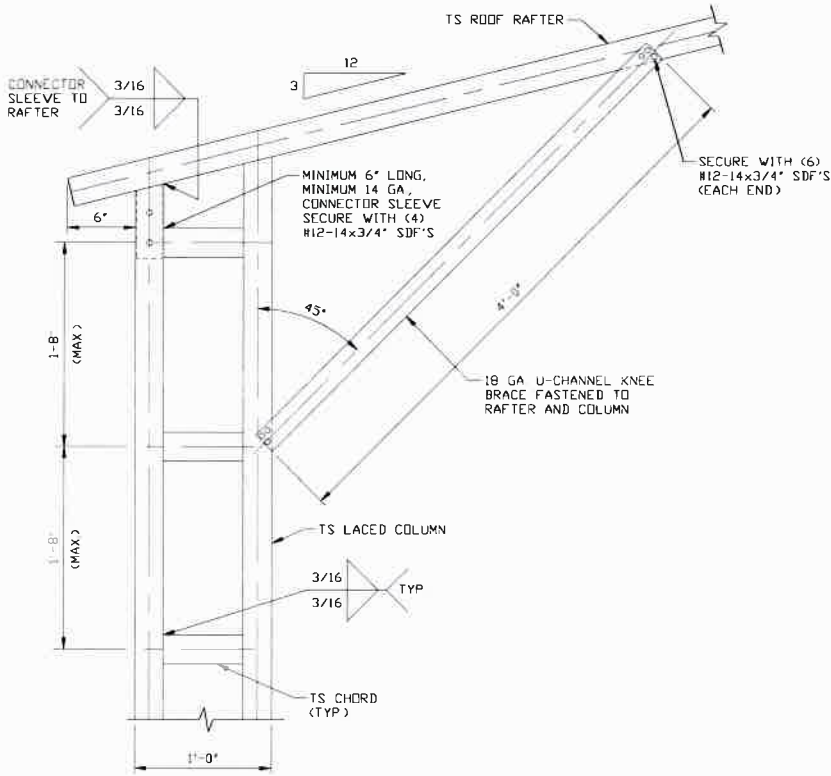


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

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	CLIENT: EAGLE CARPORTS	SHT. 5C	DWG. NO: SK-3	REV: 9

EXPOSURE B



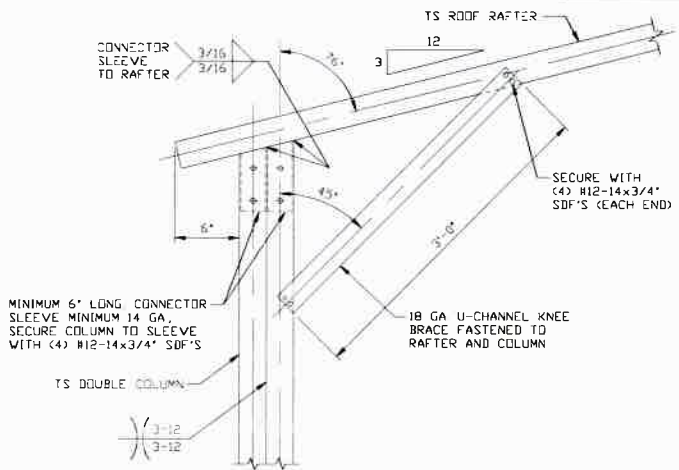
BRACE SECTION
SCALE: NTS

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

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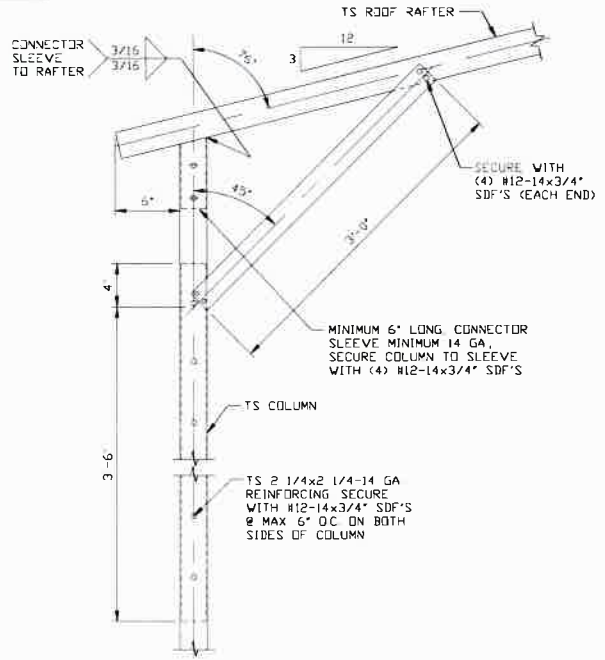
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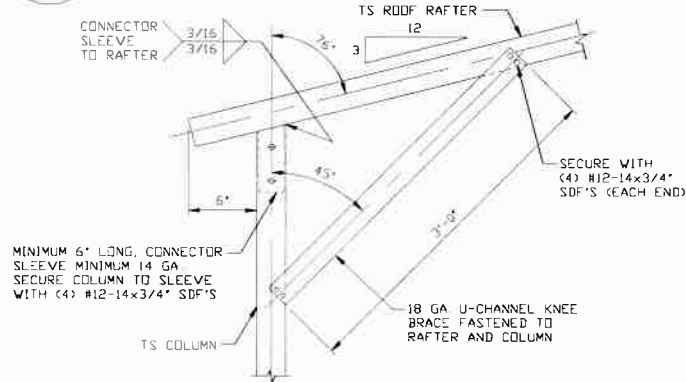
**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 14'-0" < TO <= 16'-0"
WITH 10 PSF < TO <= 35 PSF SNOW LOAD
AND <= 105 MPH WIND SPEED
(12'-0" < TO <= 16'-0" WITH <= 10 PSF
SNOW LOAD AND 105 MPH < TO <= 140 MPH
WIND SPEED)**

1A
SCALE: NTS



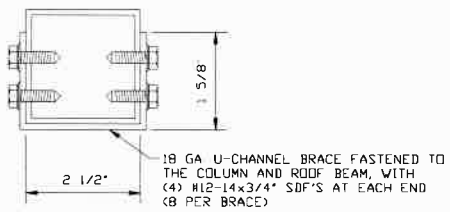
**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 12'-0" < TO <= 14'-0"
WITH 10 PSF < TO <= 35 PSF SNOW LOAD
AND <= 105 MPH WIND SPEED
(11'-0" < TO <= 12'-0" WITH <= 10 PSF
SNOW LOAD AND 105 MPH < TO <= 140 MPH
WIND SPEED)**

1B
SCALE: NTS



**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS <= 12'-0"
WITH 10 PSF < TO <= 35 PSF SNOW LOAD
<= 11'-0" WITH <= 10 PSF SNOW LOAD AND
105 MPH < TO <= 140 MPH WIND SPEED**

1C
SCALE: NTS



BRACE SECTION
SCALE: NTS

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

DRAWN BY: LT
CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: EAGLE CARPORTS

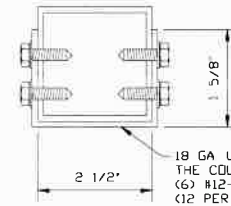
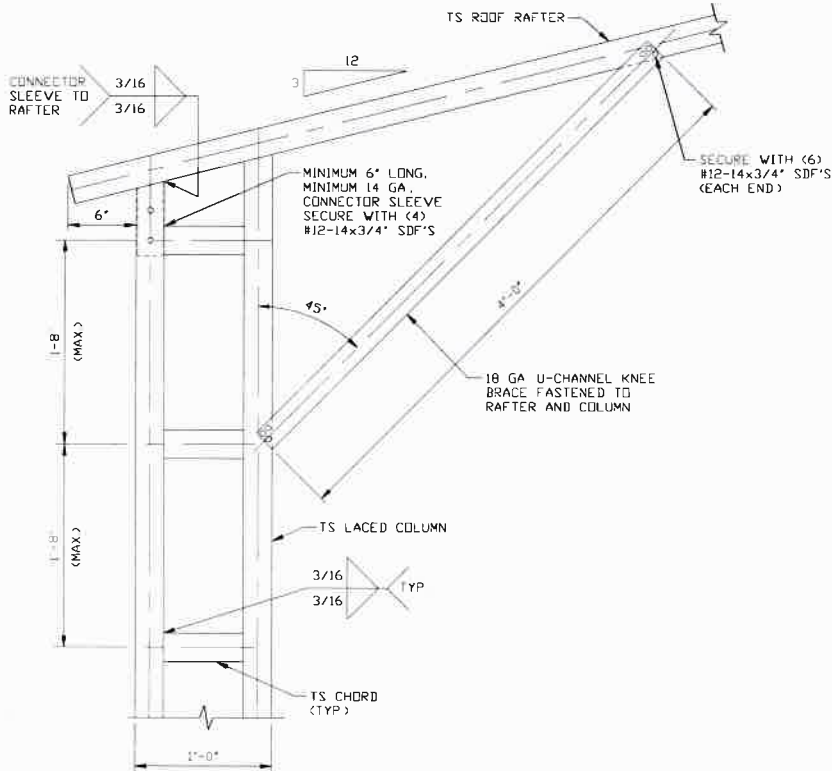
EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 8-19-21
SCALE: NTS
DWG. NO: SK-3

**JOB NO: 16166S/
18260S/19320S/21169S**
REV: 9

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EXPOSURE C



BRACE SECTION
SCALE: NTS

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

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DRAWN BY: LT

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: 8-19-21

SCALE: NTS

JOB NO: 16166S/
18260S/19320S/21169S

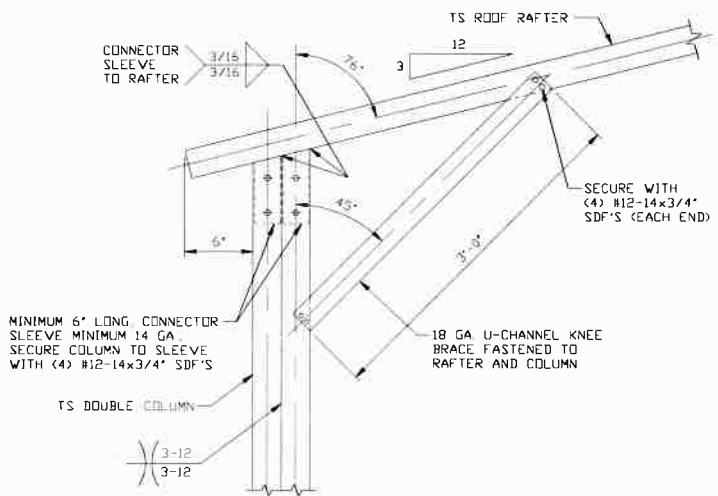
SHT. 6B

DWG. NO: SK-3

REV: 9

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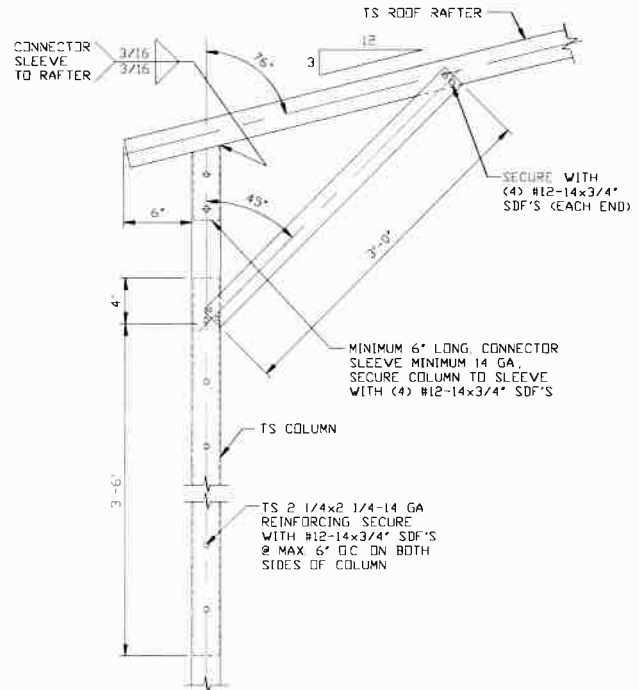
EXPOSURE C



**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 13'-0" < TO <= 15'-0"
WITH 10 PSF < TO <= 35 PSF SNOW LOAD
AND <= 105 MPH WIND SPEED
(10'-0" < TO <= 15'-0" WITH <= 10 PSF
SNOW LOAD AND 105 MPH < TO <= 140 MPH
WIND SPEED)**

1E

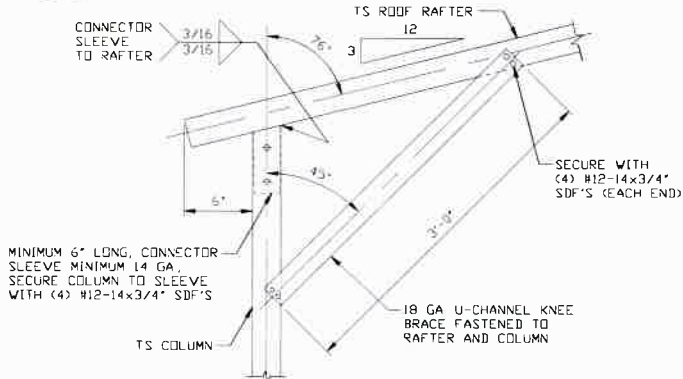
SCALE: NTS



**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 11'-0" < TO <= 13'-0"
WITH 10 PSF < TO <= 35 PSF SNOW LOAD
AND <= 105 MPH WIND SPEED
(9'-0" < TO <= 10'-0" WITH <= 10 PSF SNOW
LOAD AND 105 MPH < TO <= 140 MPH WIND
SPEED)**

1F

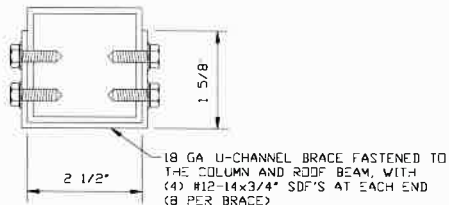
SCALE: NTS



**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS <= 11'-0"
WITH 10 PSF < TO <= 35 PSF SNOW LOAD
<= 9'-0" WITH <= 10 PSF SNOW LOAD AND
105 MPH < TO <= 140 MPH WIND SPEED**

1G

SCALE: NTS



BRACE SECTION

SCALE: NTS

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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: 8-19-21

SHT. 6C

SCALE: NTS

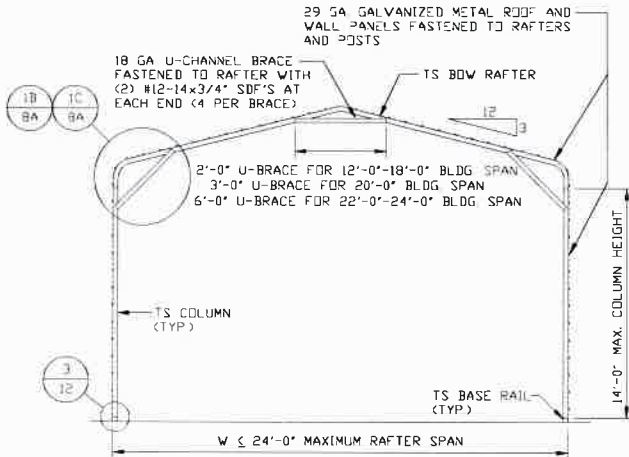
DWG. NO: SK-3

JOB NO: 16166S/
18260S/19320S/21169S

REV: 9

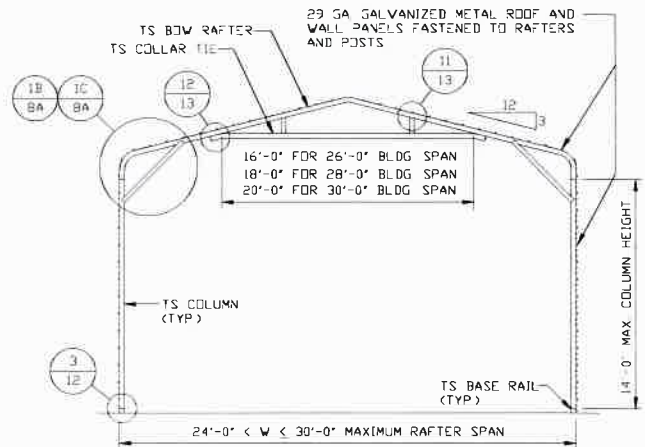
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EXPOSURE B



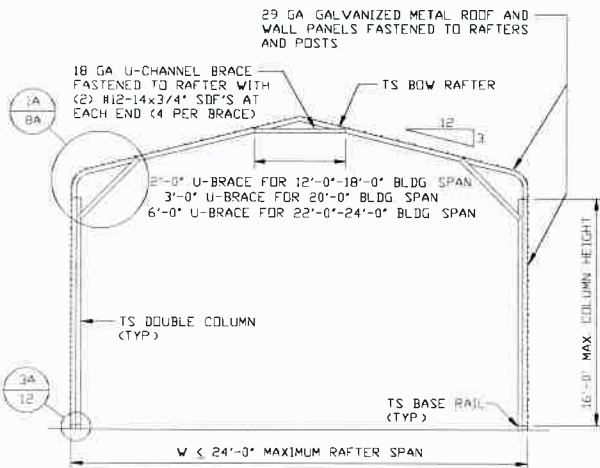
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



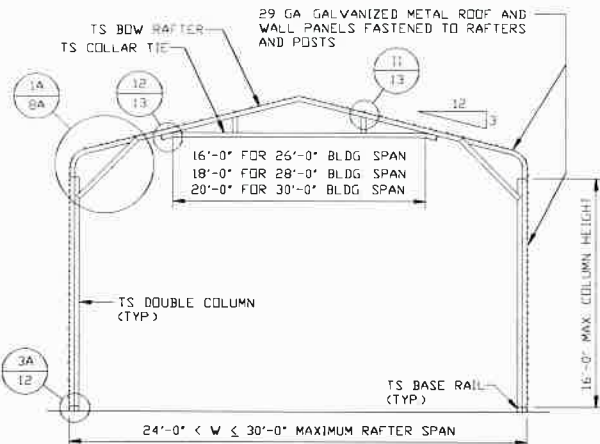
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

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

DRAWN BY: LT

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: 8-19-21

SHT. 7

SCALE: NTS

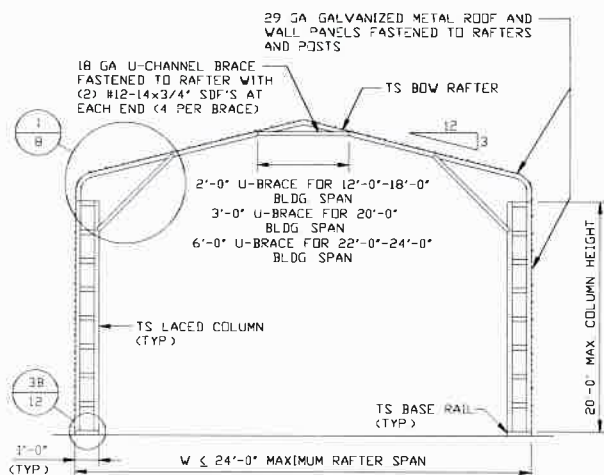
DWG. NO: SK-3

**JOB NO: 16166S/
18260S/19320S/21169S**

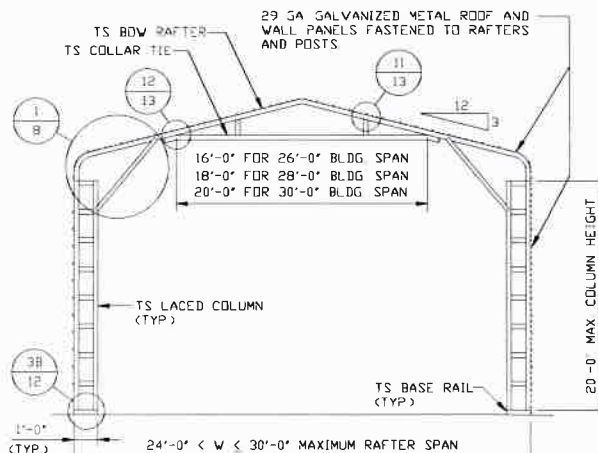
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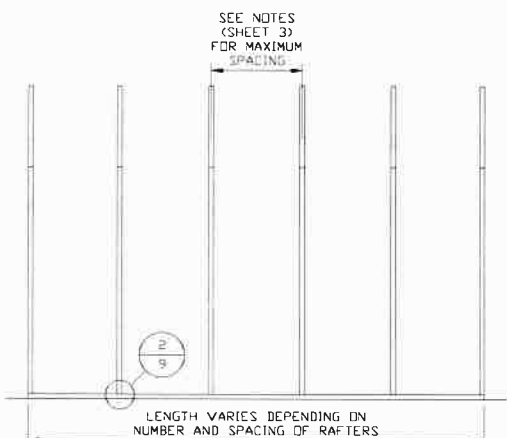
EXPOSURE B



TYPICAL RAFTER/COLUMN END FRAME SECTION
 SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
 SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION
 SCALE: NTS

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

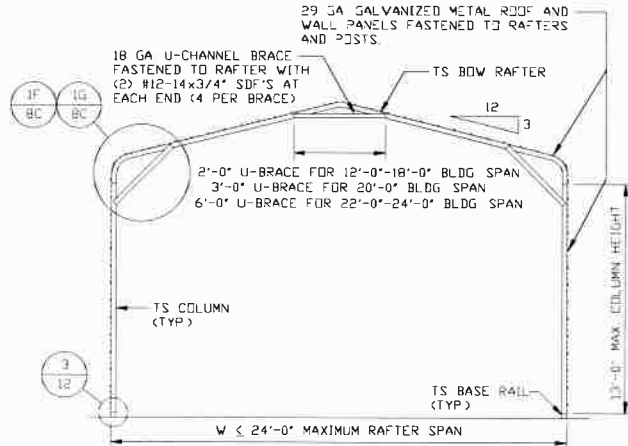
DRAWN BY: LT
CHECKED BY: PDH

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

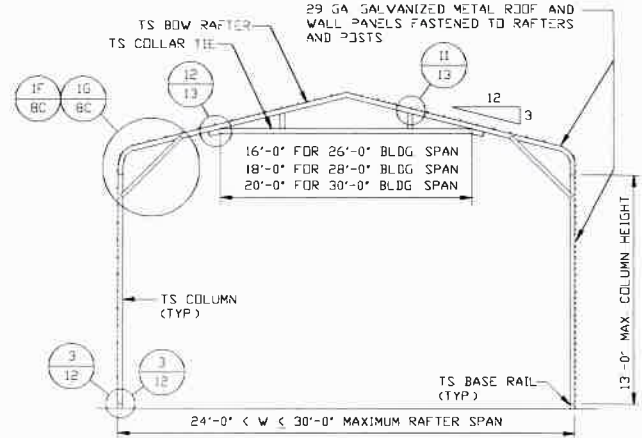
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PROJECT MGR: VSM	DATE: 8-19-21	SCALE: NTS	JOB NO: 16166S/ 18260S/19320S/21169S
CLIENT: EAGLE CARPORTS	SHT. 7A	DWG. NO: SK-3	REV: 9

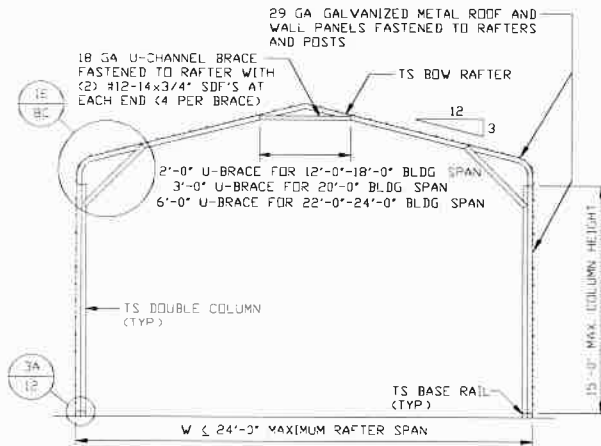
EXPOSURE C



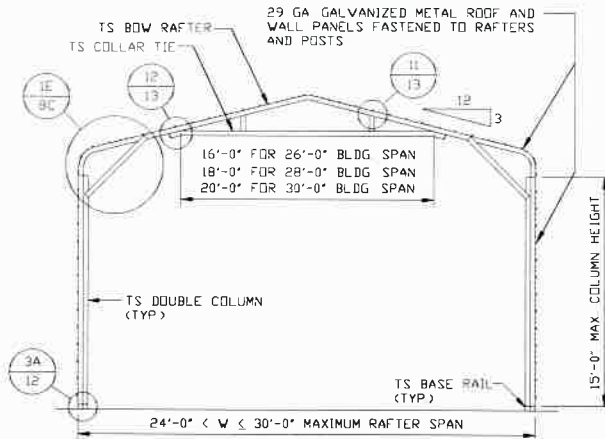
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

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

DRAWN BY: LT

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: 8-19-21

SHT. 7B

SCALE: NTS

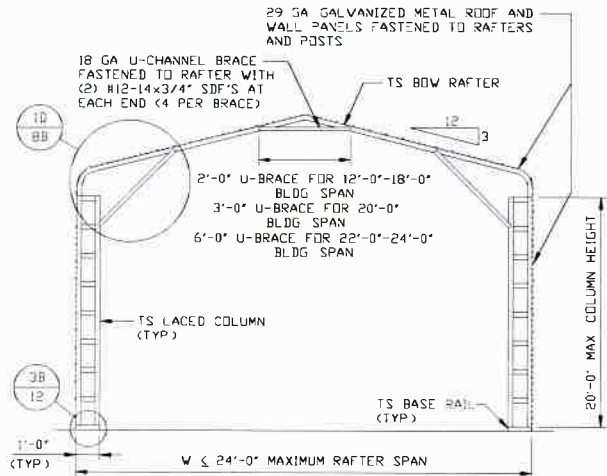
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**JOB NO: 16166S/
18260S/19320S/21169S**

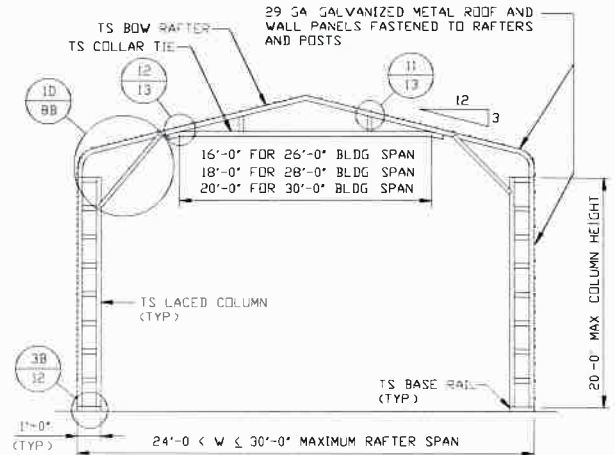
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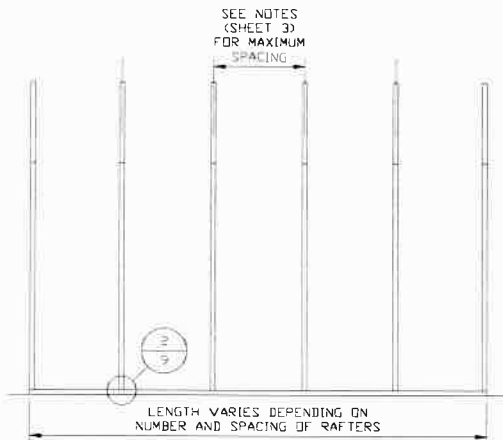
EXPOSURE C



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
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

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: 8-19-21

SHT. 7C

SCALE: NTS

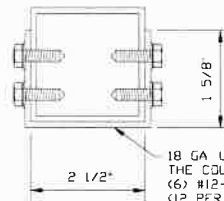
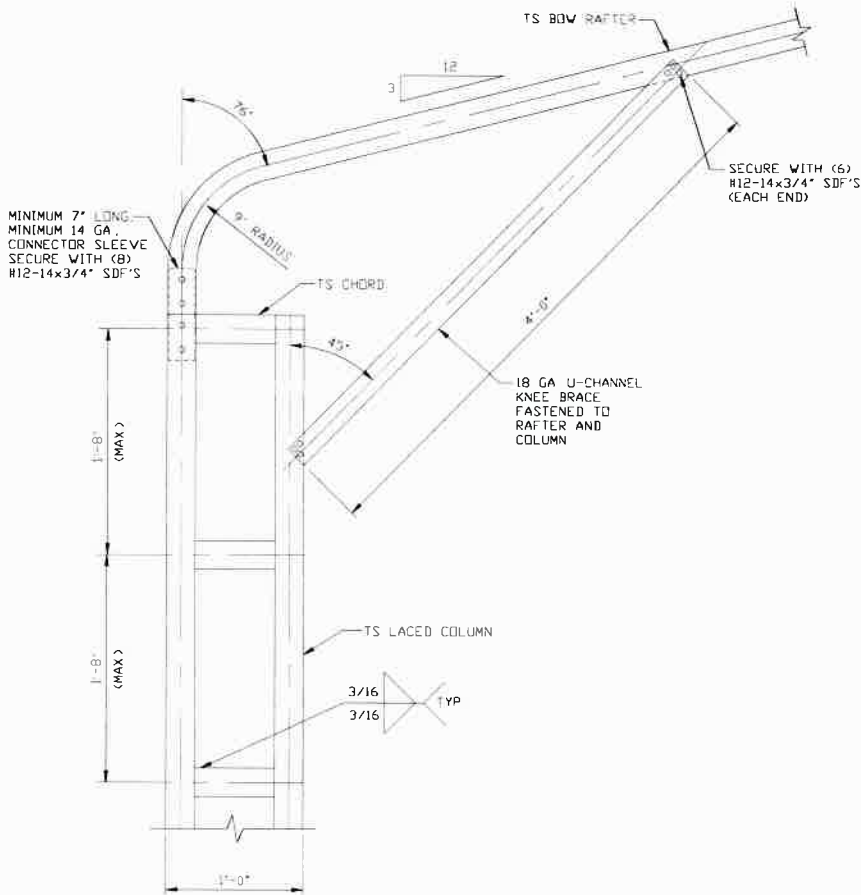
DWG. NO: SK-3

**JOB NO: 16166S/
18260S/19320S/21169S**

REV: 9

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EXPOSURE B



BRACE SECTION

SCALE: NTS

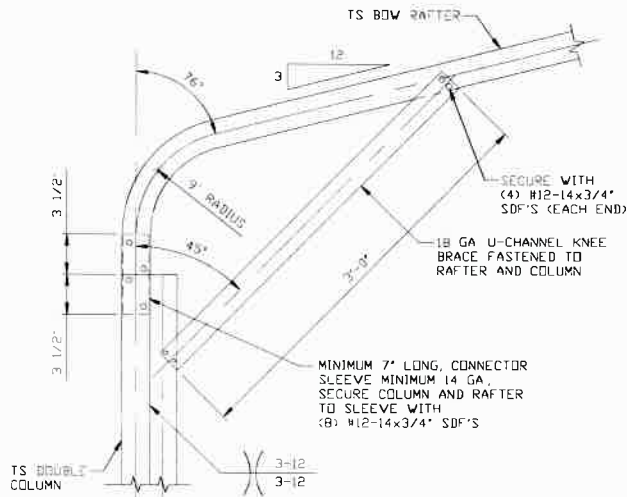
1 BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO ≤ 20'-0"
SCALE: NTS

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

DRAWN BY: LT	EAGLE CARPORTS 210 AIRPORT ROAD MOUNT AIRY, NC 27030 30'-0"x20'-0" SP ENCLOSED STRUCTURE		
CHECKED BY: PDH			
PROJECT MGR: WSM	DATE: 8-19-21	SCALE: NTS	JOB NO: 16166S/ 18260S/19320S/21169S
CLIENT: EAGLE CARPORTS	SHT. 8	DWG. NO: SK-3	REV. 9

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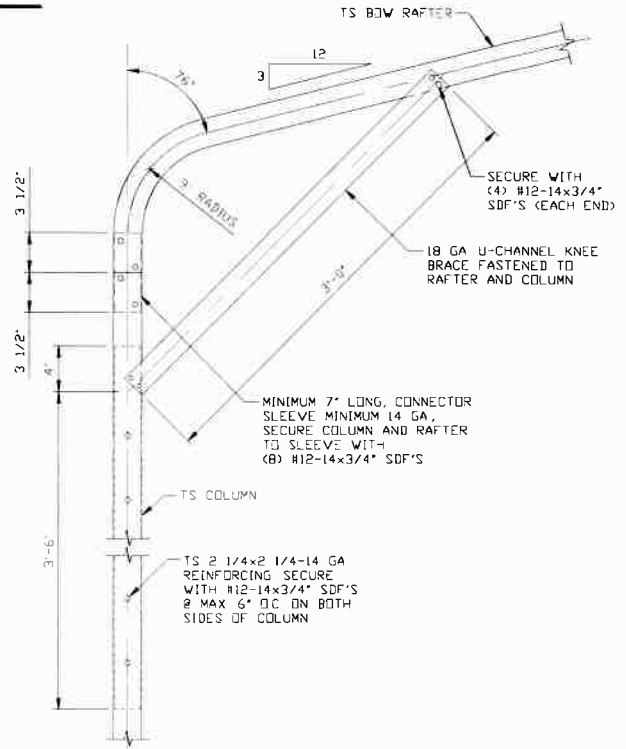
EXPOSURE B



**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 14'-0" < TO <= 16'-0"
WITH 10 PSF < TO <= 35 PSF SNOW LOAD
AND <= 105 MPH WIND SPEED
(12'-0" < TO <= 16'-0" WITH <= 10 PSF
SNOW LOAD AND 105 MPH < TO <= 140 MPH
WIND SPEED)**

1A

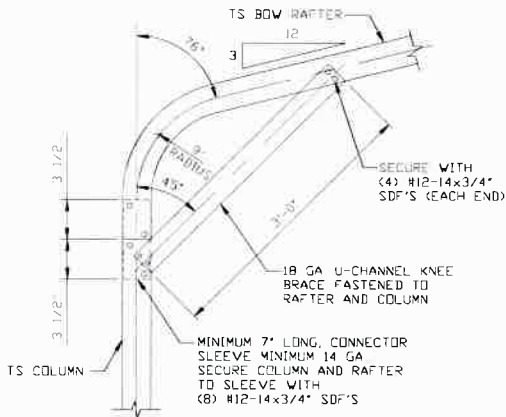
SCALE: NTS



**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 12'-0" < TO <= 14'-0"
WITH 10 PSF < TO <= 35 PSF SNOW LOAD
AND <= 105 MPH WIND SPEED
(11'-0" < TO <= 12'-0" WITH <= 10 PSF
SNOW LOAD AND 105 MPH < TO <= 140 MPH
WIND SPEED)**

1B

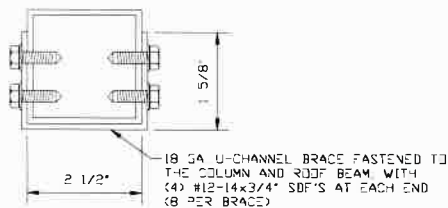
SCALE: NTS



**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS <= 12'-0"
WITH 10 PSF < TO <= 35 PSF SNOW LOAD
<= 11'-0" WITH <= 10 PSF SNOW LOAD AND
105 MPH < TO <= 140 MPH WIND SPEED**

1C

SCALE: NTS



BRACE SECTION

SCALE: NTS

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

DRAWN BY: LT

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: 8-19-21

SHT. 8A

SCALE: NTS

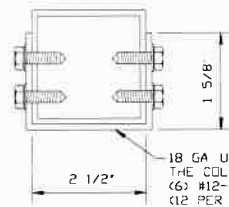
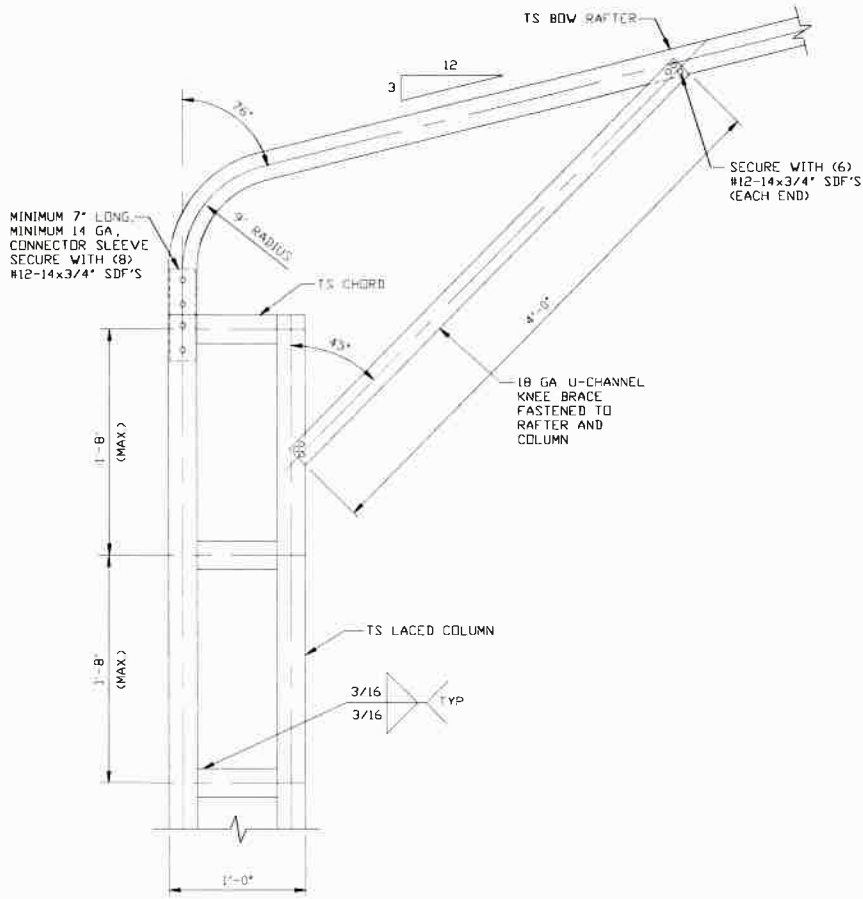
DWG. NO: SK-3

**JOB NO: 16166S/
18260S/19320S/21169S**

REV: 9

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EXPOSURE C



BRACE SECTION

SCALE: NTS

18 GA U-CHANNEL BRACE FASTENED TO THE COLUMN AND ROOF BEAM, WITH (6) #12-14x3/4" SDF'S AT EACH END (12 PER BRACE)

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

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

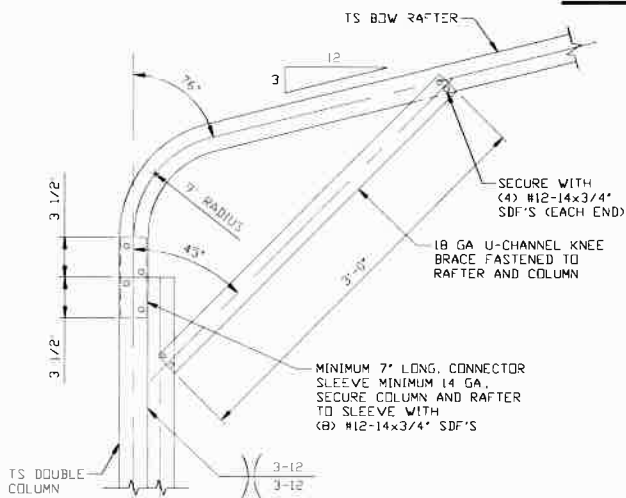
DRAWN BY: LT
CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: EAGLE CARPORTS

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

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DATE: 8-19-21	SCALE: NTS	JOB NO: 16166S/18260S/19320S/21162S
SHT. 8B	DWG. NO: SK-3	REV: 9

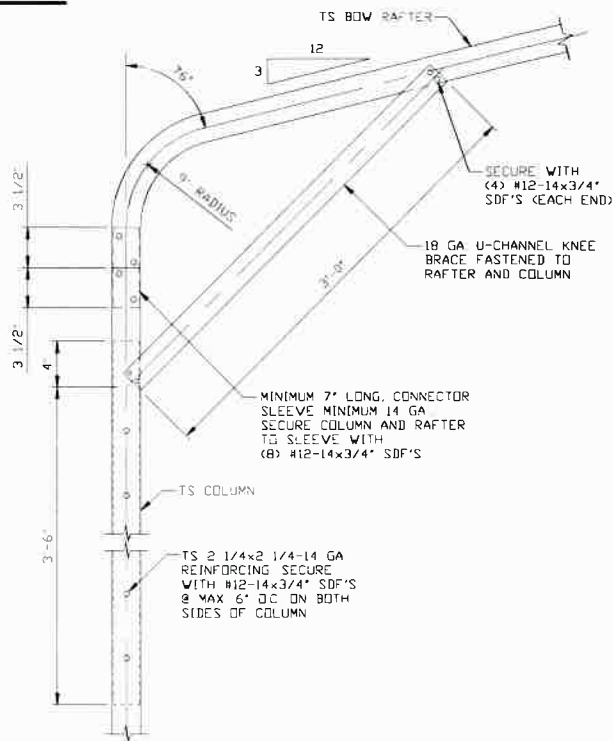
EXPOSURE C



**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 13'-0" < TO <= 15'-0"
WITH 10 PSF < TO <= 35 PSF SNOW LOAD
AND <= 105 MPH WIND SPEED
(10'-0" < TO <= 15'-0" WITH <= 10 PSF
SNOW LOAD AND 105 MPH < TO <= 140 MPH
WIND SPEED)**

1E

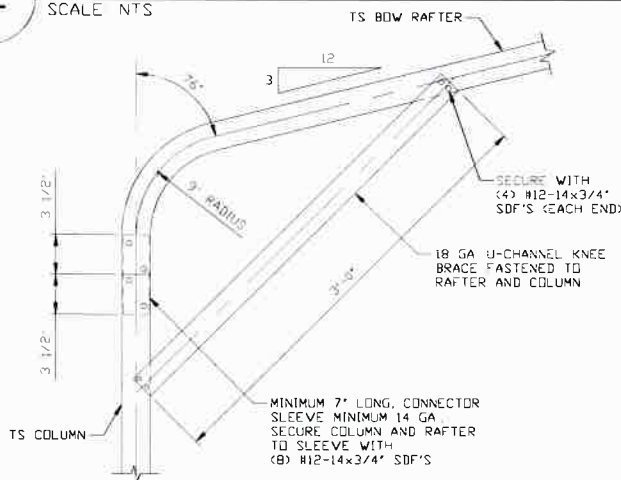
SCALE: NTS



**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 11'-0" < TO <= 13'-0"
WITH 10 PSF < TO <= 35 PSF SNOW LOAD
AND <= 105 MPH WIND SPEED
(9'-0" < TO <= 10'-0" WITH <= 10 PSF SNOW
LOAD AND 105 MPH < TO <= 140 MPH WIND
SPEED)**

1F

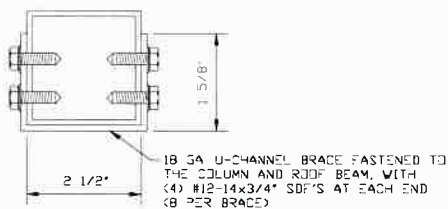
SCALE: NTS



**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS <= 11'-0"
WITH 10 PSF < TO <= 35 PSF SNOW LOAD
<= 9'-0" WITH <= 10 PSF SNOW LOAD AND
105 MPH < TO <= 140 MPH WIND SPEED**

1G

SCALE: NTS



BRACE SECTION

SCALE: NTS

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

DRAWN BY: LT

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: 8-19-21

SHT. 8C

SCALE: NTS

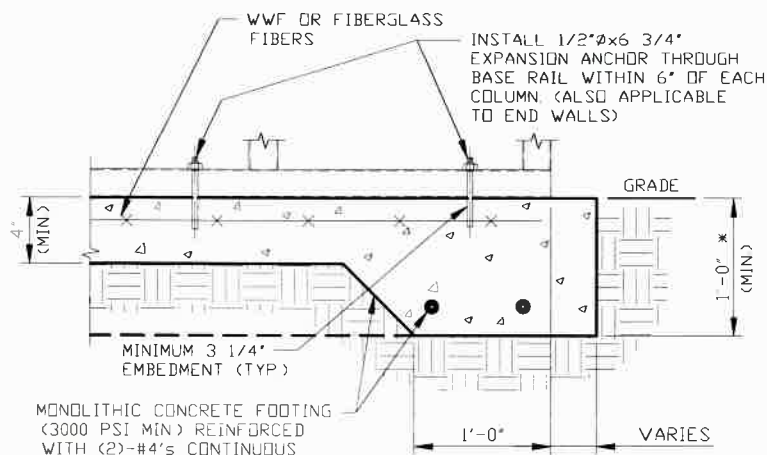
DWG. NO: SK-3

JOB NO: 16166S/
18260S/19320S/21169S

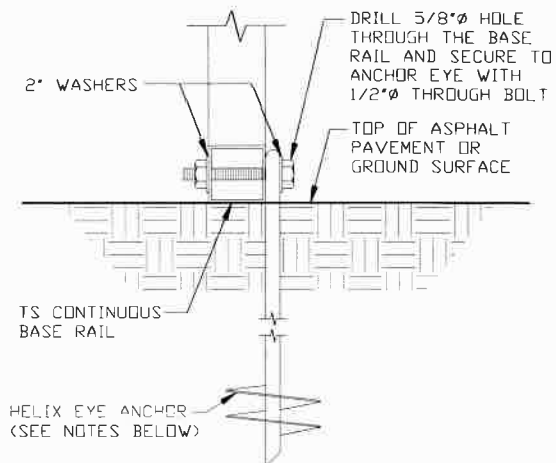
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BASE RAIL ANCHORAGE OPTIONS



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



2A GROUND BASE HELIX ANCHORAGE
SCALE: NTS (CAN BE USED FOR ASPHALT)
* COORDINATE WITH LOCAL CODES/ORD
REGARDING REQUIRED ANCHOR LENGTH.

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 LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.

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

DRAWN BY: LT

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: 8-19-21

SHT. 9

SCALE: NTS

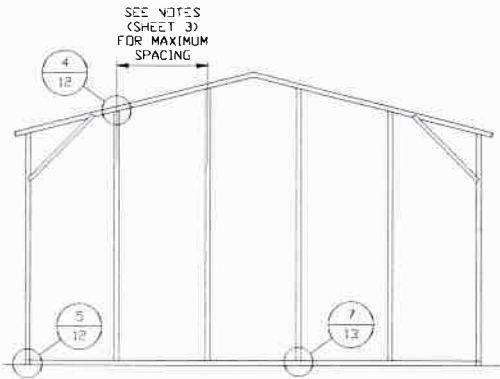
DWG. NO: SK-3

**JOB NO: 16166S/
18260S/19320S/21169S**

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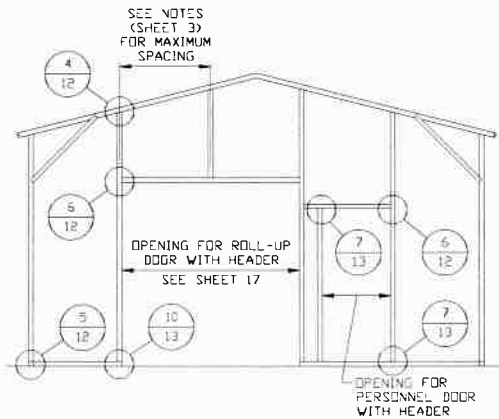
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BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



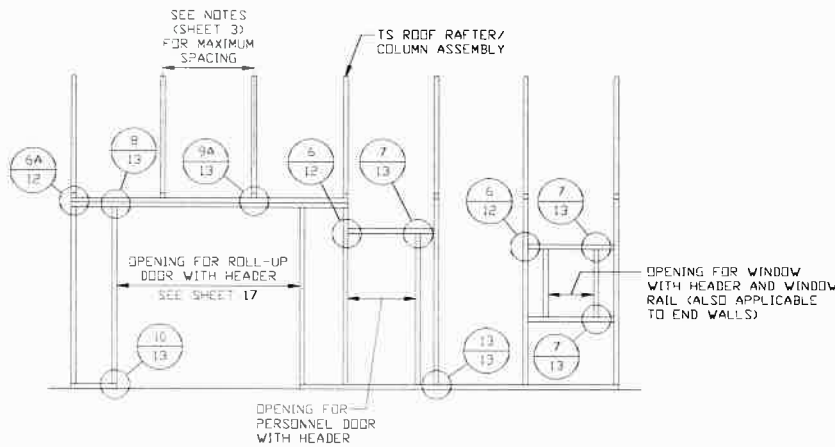
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

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

CLIENT: EAGLE CARPORTS

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

DATE: 8-19-21

SHT. 10

SCALE: NTS

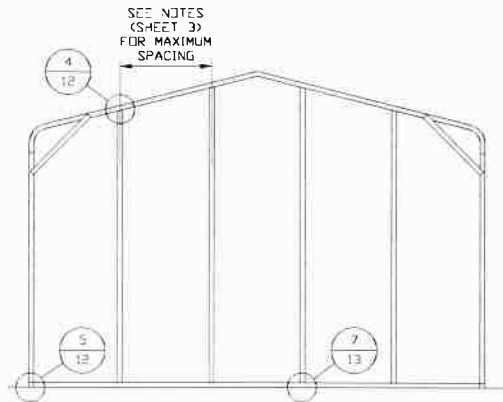
DWG. NO: SK-3

**JOB NO: 16166S/
18260S/19320S/21169S**

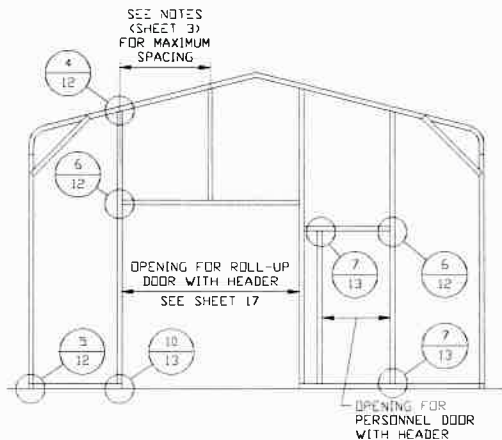
REV: 9

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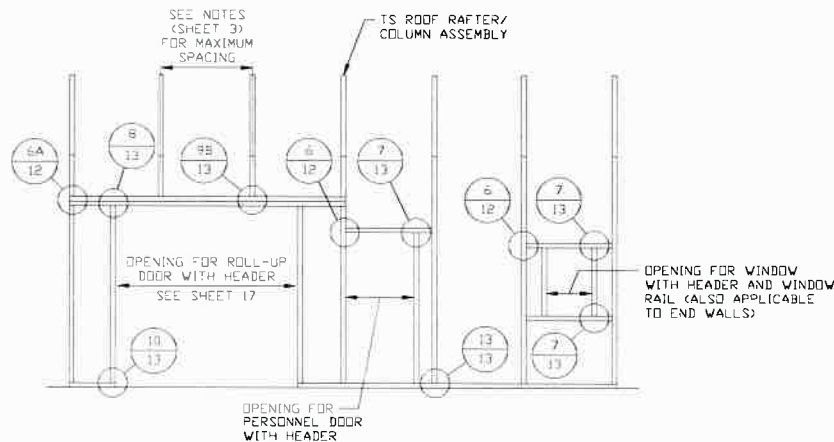
BOW RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



**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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CLIENT: EAGLE CARPORTS

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SHT. 11

SCALE: NTS

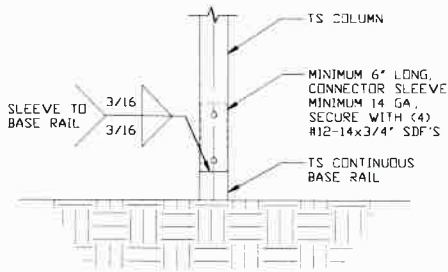
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**JOB NO: 16166S/
18260S/19320S/21169S**

REV: 9

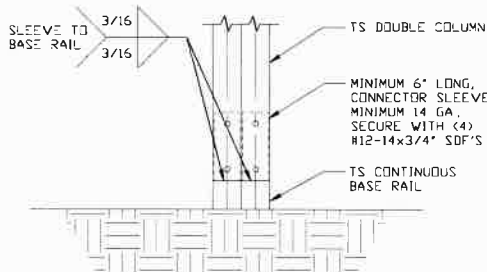
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CONNECTION DETAILS



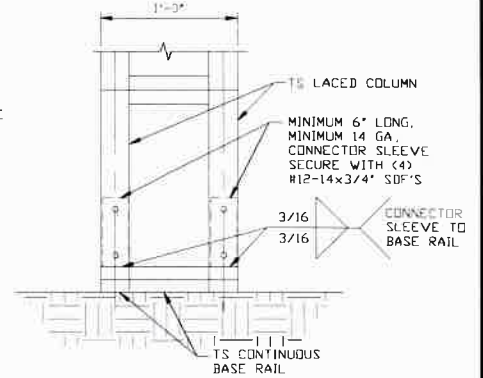
3
RAFTER COLUMN/
BASE RAIL
CONNECTION DETAIL

SCALE: NTS



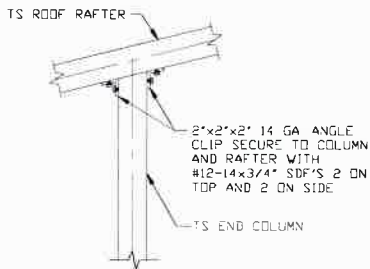
3A
RAFTER COLUMN/
BASE RAIL
CONNECTION DETAIL

SCALE: NTS



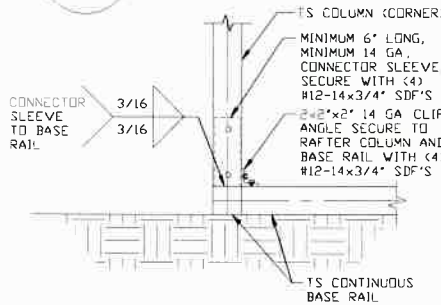
3B
RAFTER COLUMN/
BASE RAIL
CONNECTION DETAIL

SCALE: NTS



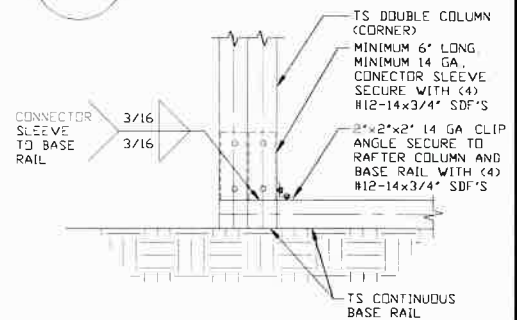
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END COLUMN/RAFTER
CONNECTION DETAIL

SCALE: NTS



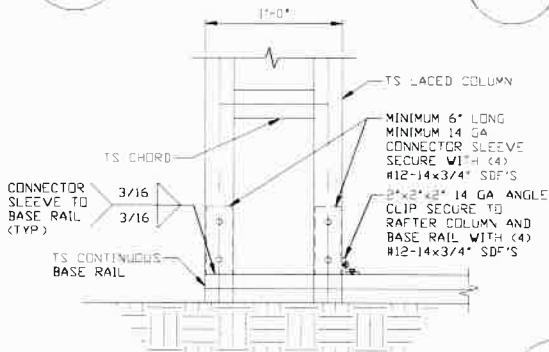
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END COLUMN/BASE RAIL
CONNECTION DETAIL

SCALE: NTS



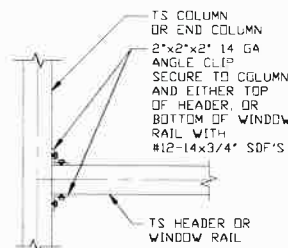
5A
END COLUMN/BASE RAIL
CONNECTION DETAIL

SCALE: NTS



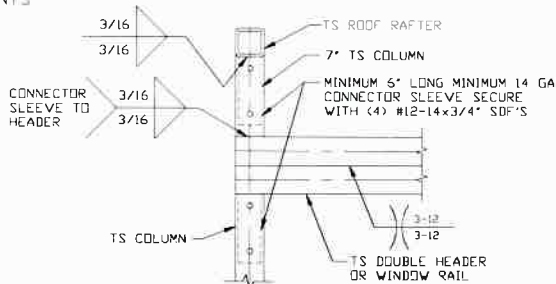
5B
END COLUMN/BASE RAIL
CONNECTION DETAIL

SCALE: NTS



6
COLUMN OR WINDOW
RAIL TO POST
CONNECTION DETAIL

SCALE: NTS



6A
DOUBLE HEADER TO COLUMN
CONNECTION DETAIL

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: 8-19-21

SHT. 12

SCALE: NTS

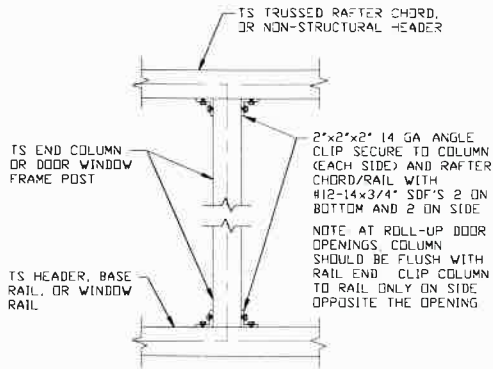
DWG. NO: SK-3

**JOB NO: 16166S/
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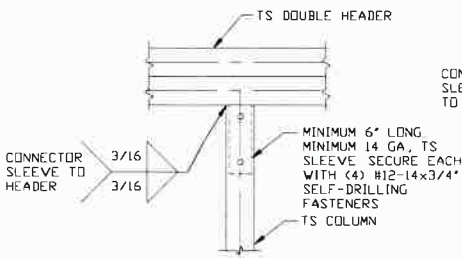
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CONNECTION DETAILS



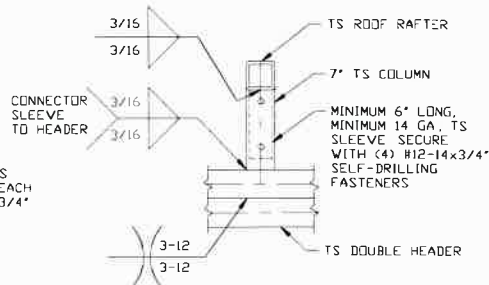
7 COLUMN TO WINDOW RAIL CONNECTION DETAIL

SCALE: NTS



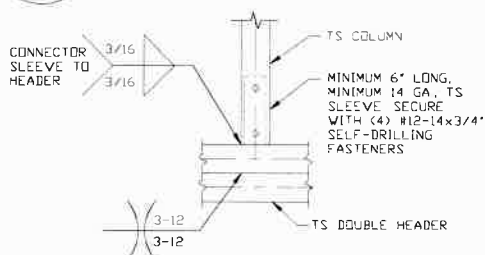
8 DOUBLE HEADER/
COLUMN CONNECTION DETAIL

SCALE: NTS



9A COLUMN/DOUBLE HEADER CONNECTION DETAIL

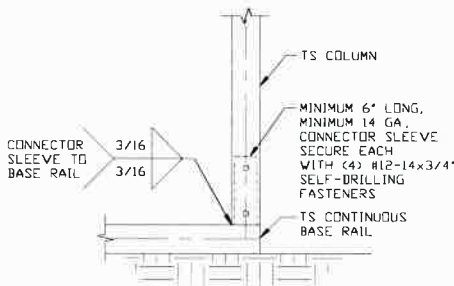
SCALE: NTS



9B

COLUMN/DOUBLE HEADER CONNECTION DETAIL

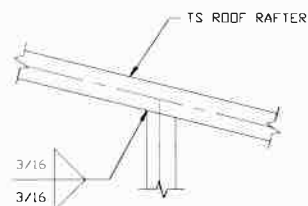
SCALE: NTS



10

COLUMN/BASE RAIL CONNECTION DETAIL

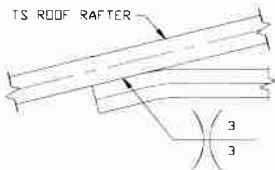
SCALE: NTS



11

RAFTER TO CHORD CONNECTION DETAIL

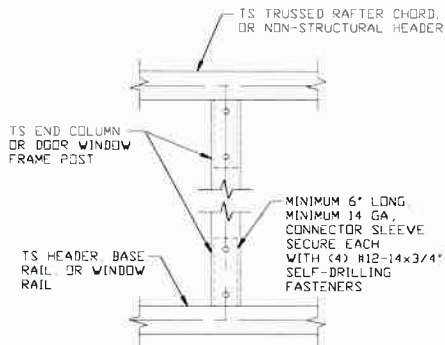
SCALE: NTS



12

COLLAR TIE CONNECTION DETAIL

SCALE: NTS



13

COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

SCALE: NTS

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PROJECT MGR: WSM

CLIENT: EAGLE CARPORTS

EAGLE CARPORTS
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DATE: 8-19-21

SHT. 13

SCALE: NTS

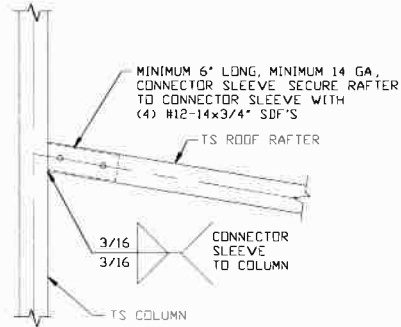
DWG. NO: SK-3

JOB NO: 16166S/
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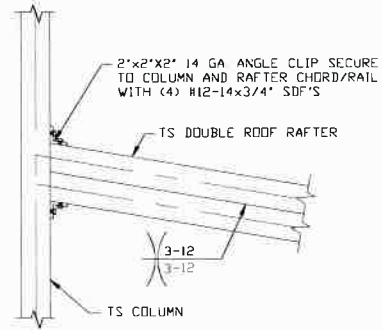
BOX EAVE RAFTER LEAN-TO OPTIONS



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

15

SCALE: NTS.
NOTE: ROOF PITCH OF 2:12 AND 1:12 ARE
ADEQUATE FOR LEAN-TO RAFTER.



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

15A

SCALE: NTS.
NOTE: ROOF PITCH OF 2:12 AND 1:12 ARE
ADEQUATE FOR LEAN-TO RAFTER.

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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: 8-19-21

SHT. 14A

SCALE: NTS

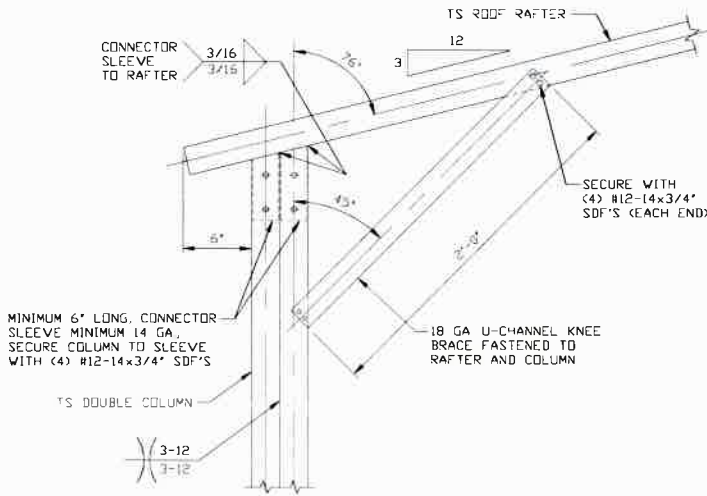
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**JOB NO: 16166S/
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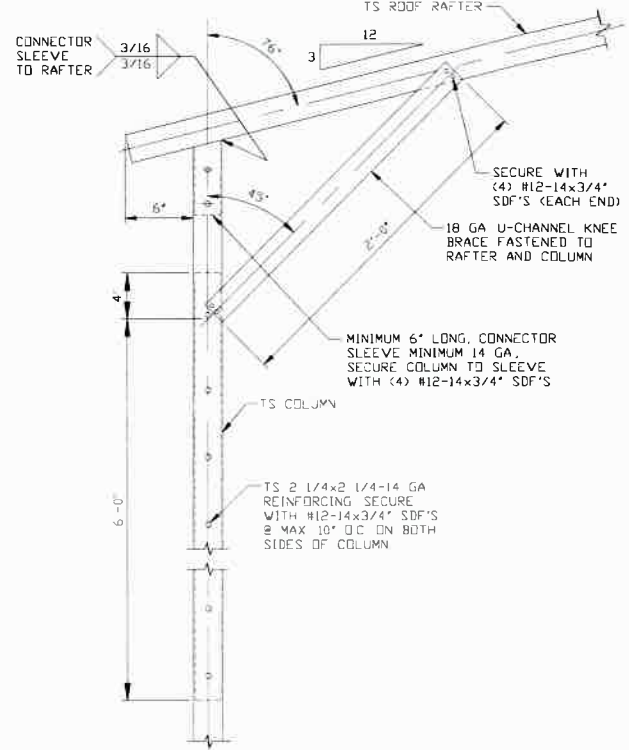
BOX EAVE RAFTER LEAN-TO OPTION - EXPOSURE B



16

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 15'-0" < TO <= 16'-0"

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



16A

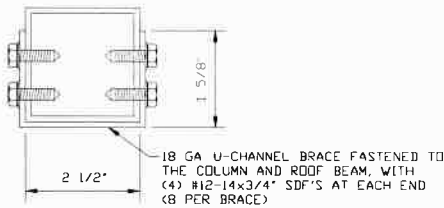
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO <= 15'-0"

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

16B

BOX 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)



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: 8-19-21

SHT. 14B

SCALE: NTS

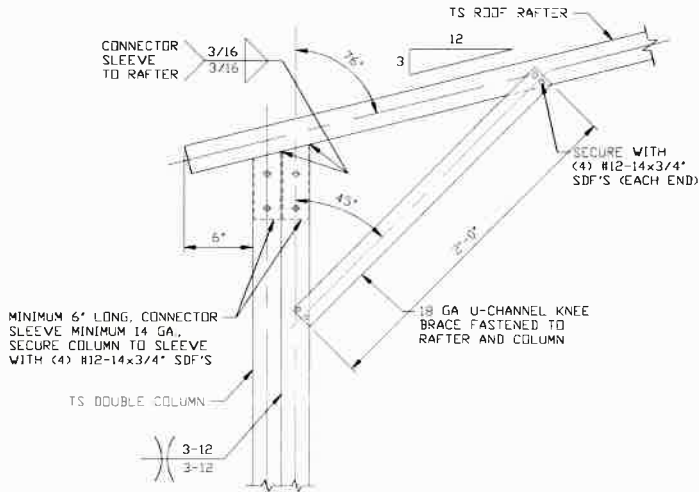
DWG. NO: SK-3

JOB NO: 16166S/
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REV: 9

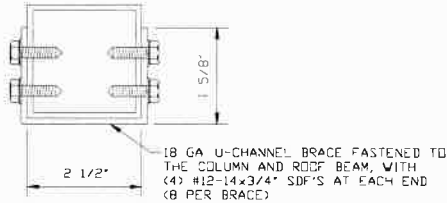
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BOX EAVE RAFTER LEAN-TO OPTION - EXPOSURE C



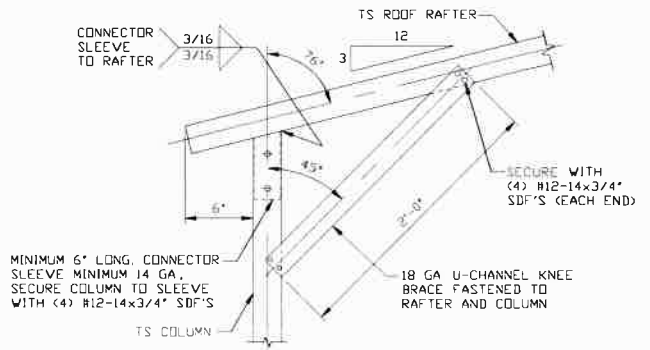
16C BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" < TO ≤ 16'-0"

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



BRACE SECTION

SCALE: NTS

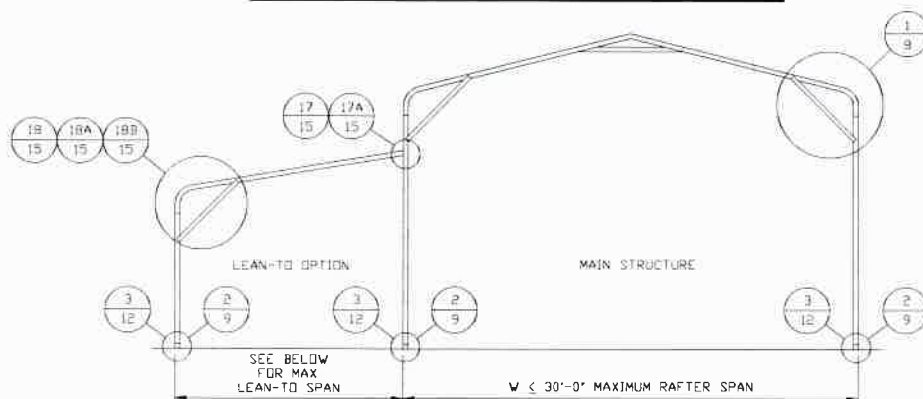


16D BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 13'-0"

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: LT	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. 14C	DWG. NO: SK-3	REV: 9

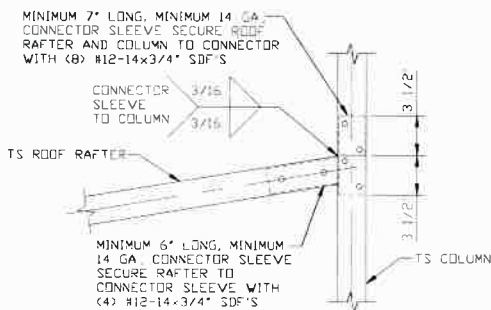
BOW RAFTER LEAN-TO OPTION



TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: NTS

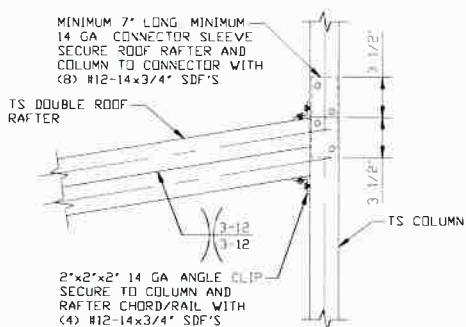
MAXIMUM WIDTH OF SINGLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 12'-0"
 MAXIMUM WIDTH OF DOUBLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 15'-0"
 MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE LACED COLUMNS FOR EAVE HEIGHTS 16'-0" < TO < 20'-0" FOR EXPOSURE B AND 15'-0" < TO < 20'-0" FOR EXPOSURE C
 MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 14'-0" < TO < 16'-0" FOR EXPOSURE B AND 13'-0" < TO < 15'-0" FOR EXPOSURE C
 MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS WITH INSERTS FOR EAVE HEIGHTS 11'-0" < TO < 14'-0" FOR EXPOSURE B AND 9'-0" < TO < 13'-0" FOR EXPOSURE C
 MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS < 11'-0" FOR EXPOSURE B AND < 9'-0" FOR EXPOSURE C.



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

SCALE: NTS

NOTE: ROOF PITCH OF 2:12 AND 1:12 ARE ADEQUATE FOR LEAN-TO RAFTER



17A LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0" < TO < 15'-0"

SCALE: NTS

NOTE: ROOF PITCH OF 2:12 AND 1:12 ARE ADEQUATE FOR LEAN-TO RAFTER

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ENGINEERING AND CONSULTING, INC.**

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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: 8-19-21

SHT. 15

SCALE: NTS

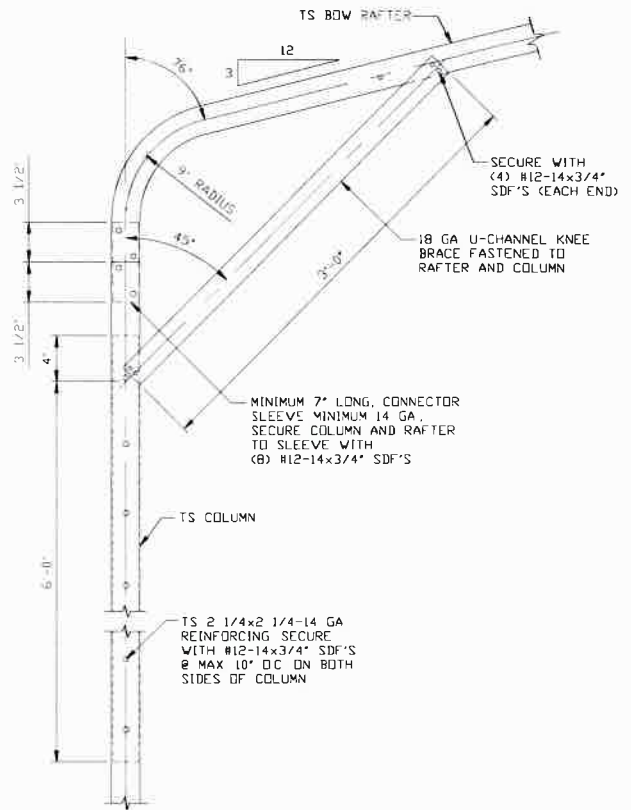
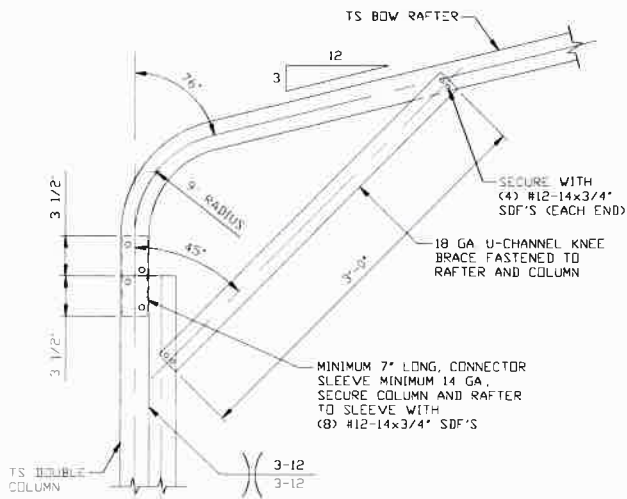
DWG. NO: SK-3

**JOB NO: 16166S/
19260S/19320S/21169S**

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BOW RAFTER LEAN-TO OPTION - EXPOSURE B



18

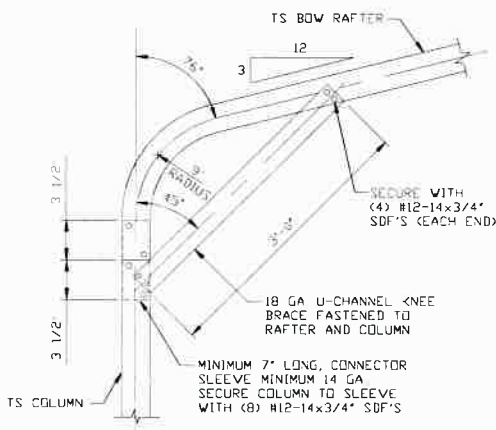
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 15'-0" < TO <= 16'-0"

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

18A

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO <= 15'-0"

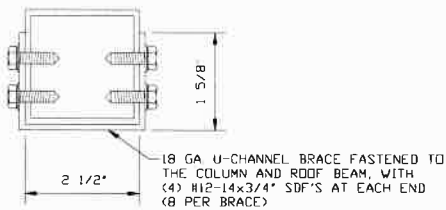
SCALE: NTS
HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING)



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)



BRACE SECTION

SCALE: NTS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: LT

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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: 8-19-21

SHT. 15A

SCALE: NTS

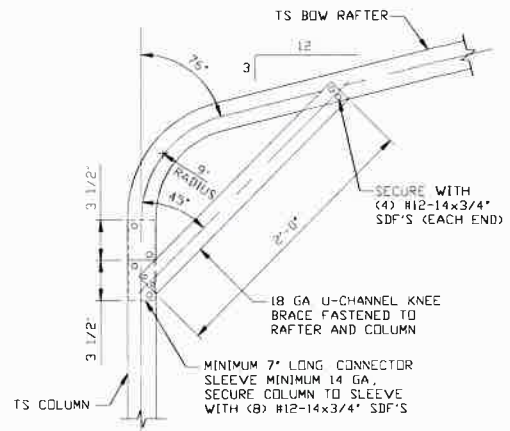
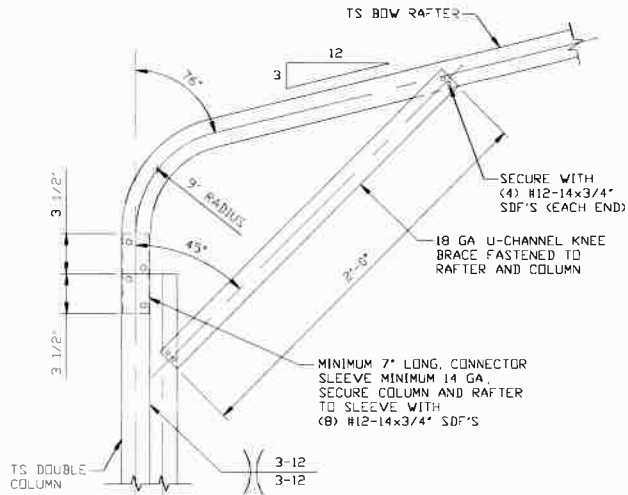
DWG. NO: SK-3

JOB NO: 16166S/
18260S/19320S/21169S

REV: 9

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BOW RAFTER LEAN-TO OPTION - EXPOSURE C

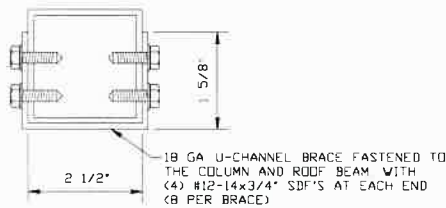


18C BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" < TO ≤ 16'-0"

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

18D 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).



BRACE SECTION

SCALE: NTS

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

DRAWN BY: LT

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: 8-19-21

SHT. 15B

SCALE: NTS

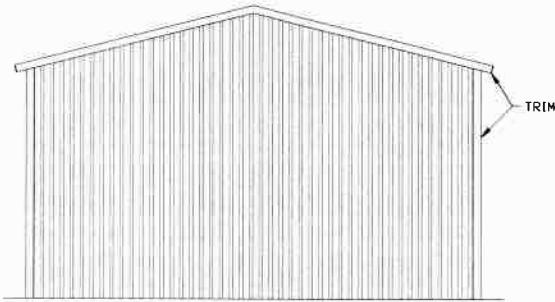
DWG. NO: SK-3

**JOB NO: 16166S/
18260S/19320S/21169S**

REV: 9

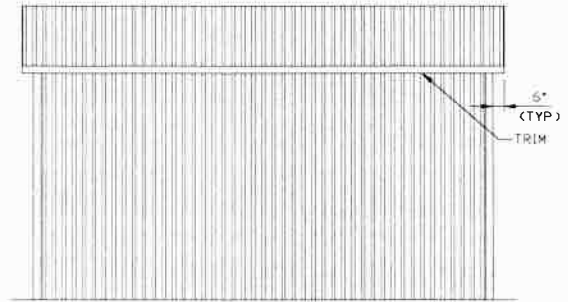
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



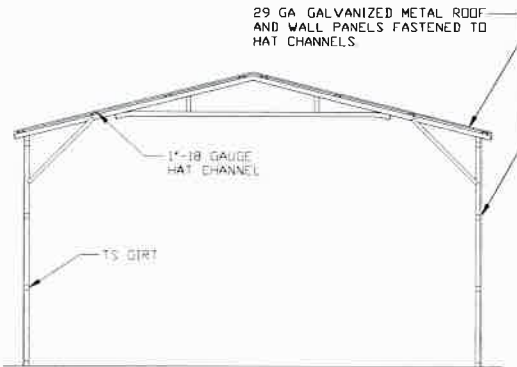
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS



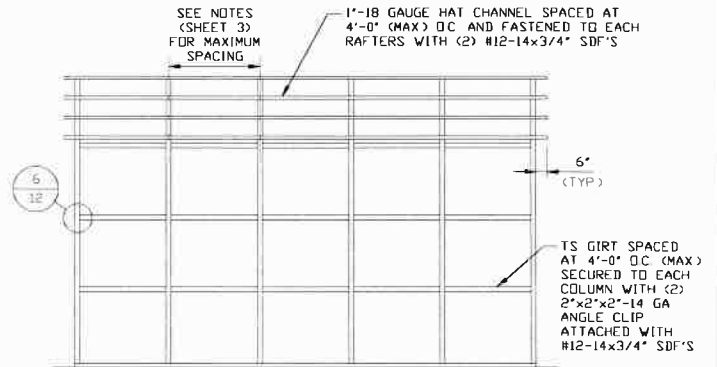
**TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS



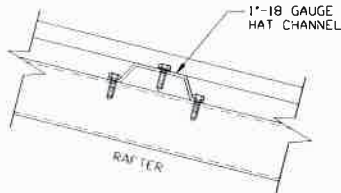
**TYPICAL SECTION VERTICAL
ROOF/SIDING OPTION**

SCALE: NTS



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

SCALE: NTS



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

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

DRAWN BY: LT

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: 8-19-21

SHT. 16

SCALE: NTS

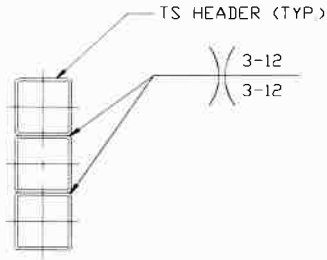
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JOB NO: 16166S/
18260S/19320S/21169S

REV: 9

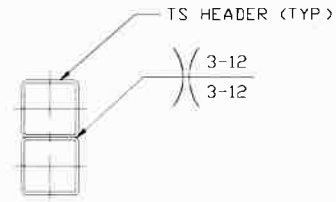
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SIDE WALL HEADER OPTIONS



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

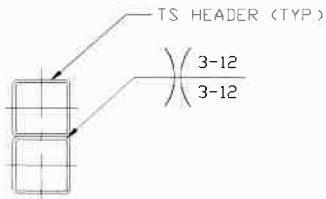
SCALE: NTS



**HEADER DETAIL FOR
LENGTHS ≤ 12'-0'**

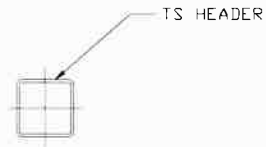
SCALE: NTS

END WALL HEADER OPTIONS



**HEADER DETAIL FOR
14'-0' < LENGTHS ≤ 20'-0'**

SCALE: NTS



**HEADER DETAIL FOR
LENGTHS ≤ 14'-0'**

SCALE: NTS

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

DRAWN BY: LT

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: 8-19-21

SHT. 17

SCALE: NTS

DWG. NO: SK-3

**JOB NO: 16166S/
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REV: 9

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