



## **STRUCTURAL DESIGN**

## **ENCLOSED BUILDING**

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

**17 June 2021**

**Revision 3**

**M&A Project No. 17171S/18253S/20376S/21118S**

**Prepared for:**

**Carport Central, Inc.  
137 South Main Street  
Mt. 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  
Mt. 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>	

<b>MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.</b>		<b>DRAWN BY: JG</b>		CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030	
		<b>CHECKED BY: PDH</b>		30'-0" x 16'-0" ENCLOSED STRUCTURE	
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		<b>CLIENT: CC</b>	<b>SHT. 1</b>	<b>DWG. NO: SK-3</b>	<b>REV. 3</b>

	<p><b>Professional Certification.</b> 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 <u>6/18/22</u></p>		
	<p>WAYNE SHERIDAN MOORE No. 12395 6/18/21 REGISTERED PROFESSIONAL ENGINEER (STRUCTURAL)</p>		

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	CLIENT: CC	SHT. 2	DWG. NO: SK-3	

**INSTALLATION NOTES AND SPECIFICATIONS**

- 1 DESIGN IS FOR MAXIMUM 30'-0" WIDE x 16'-0" EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH ALL 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 = 30 PSF ( $\leq 26'-0"$ ), 35 PSF ( $26'-0" < W \leq 30'-0"$ )  
(NOTE: UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED)
4. ULTIMATE WIND SPEED =  $\leq 145$  MPH (NOMINAL WIND SPEED =  $\leq 112$  MPH) UNLESS NOT OTHERWISE)
- 5 MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 50 FEET (UNLESS NOTED OTHERWISE)
- 6 END WALL COLUMNS (POST) ARE EQUIVALENT TO SIDE WALL COLUMNS (POST) UNLESS NOTED OTHERWISE
- 7 LOW HAZARD RISK CATEGORY I.
8. WIND EXPOSURE CATEGORY B
- 9 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAUGE TUBE STEEL JOIST FRAMING MEMBERS (UNLESS NOTED OTHERWISE)
- 10 AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR AND EDGE DISTANCE) = 8 INCHES
11. FASTENERS CONSIST OF 1/4"x3/4" (UNLESS OTHERWISE NOTED) 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 WITHIN 6" OF EACH COLUMN
- 13 STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED FOR WIND SPEEDS  $\leq 145$  MPH. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AND FOR WIND SPEEDS  $> 145$  MPH AS NOTED. COORDINATE WITH LOCAL CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION.
- 14 WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:  
 SOIL SITE CLASS = D  
 RISK CATEGORY I  
 $R = 3.25$   
 $S_{DS} = 2.039 g$   
 $S_{D1} = 1.258 g$   
 $I_E = 1.0$   
 $V = C_5W$

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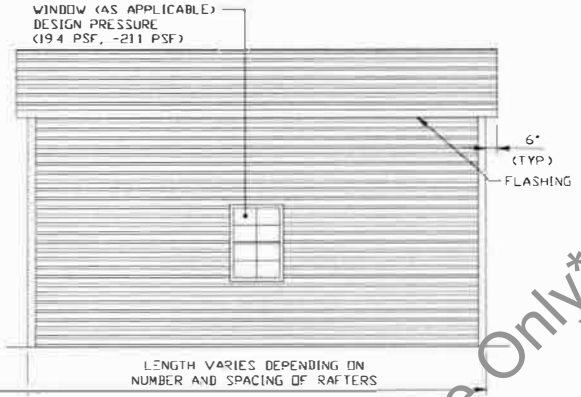
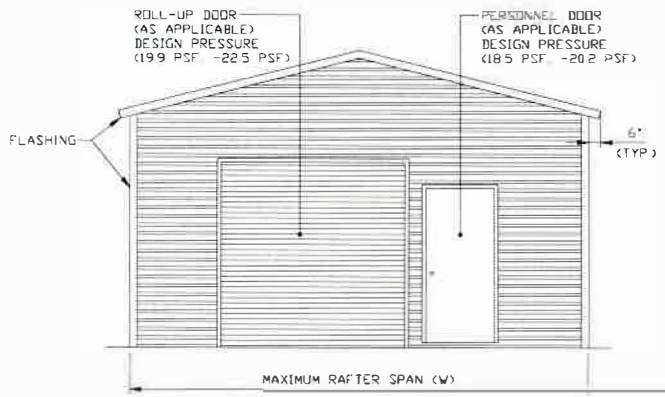
**LIST OF APPLICABLE BUILDING CODES**

- 2018 INTERNATIONAL BUILDING CODE (IBC 2018)
- 2015 INTERNATIONAL BUILDING CODE (IBC 2015)
- 2012 INTERNATIONAL BUILDING CODE (IBC 2012)
- 2009 INTERNATIONAL BUILDING CODE (IBC 2009)
- 2006 INTERNATIONAL BUILDING CODE (IBC 2006)
- BUILDING CODE 2015 OF ALABAMA  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- 2015 IBC PORTION OF THE 2018 CT STATE BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- COLORADO: IBC 2015, IBC 2018  
(DEPENDENT UPON LOCAL JURISDICTION)
- 2020 FLORIDA BUILDING CODE, 7TH EDITION
- GEORGIA STATE MINIMUM STANDARD BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- INDIANA BUILDING CODE, 2014 EDITION  
(ADOPTS THE IBC 2012 WITH AMENDMENTS)
- BUILDING CODE 2018 OF KANSAS  
(ADOPTS THE IBC 2018 WITH AMENDMENTS)
- 2018 KENTUCKY BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- BUILDING CODE 2015 OF LOUISIANA  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- MA STATE BUILDING CODE, 9TH EDITION  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- BUILDING CODE 2018 OF MARYLAND  
(ADOPTS THE IBC 2018 WITH AMENDMENTS)
- BUILDING CODE 2015 OF NEW MEXICO  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- 2020 BUILDING CODE OF NEW YORK STATE  
(ADOPTS THE IBC 2018 WITH AMENDMENTS)
- 2018 NORTH CAROLINA BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- OHIO BUILDING CODE 2017  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- BUILDING CODE 2015 OF OKLAHOMA  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- BUILDING CODE 2015 OF PENNSYLVANIA  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- 2019 RHODE ISLAND BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- 2018 SOUTH CAROLINA BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- BUILDING CODE 2012 OF TENNESSEE  
(ADOPTS THE IBC 2012 WITH AMENDMENTS)
- \* IBC 2012, IBC 2018  
BUILDING CODE OF THE TEXAS INDUSTRIALIZED  
HOUSING AND BUILDINGS PROGRAM  
(ADOPTS THE IBC 2012 WITH AMENDMENTS)

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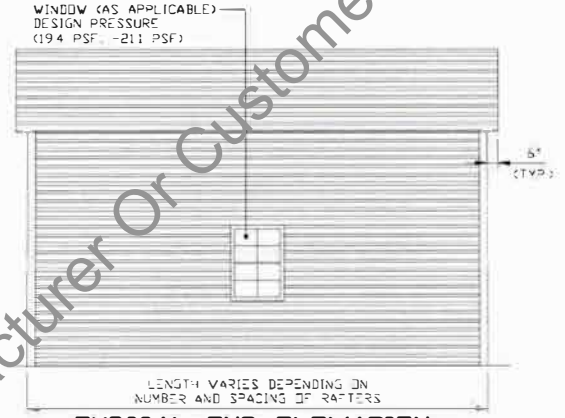
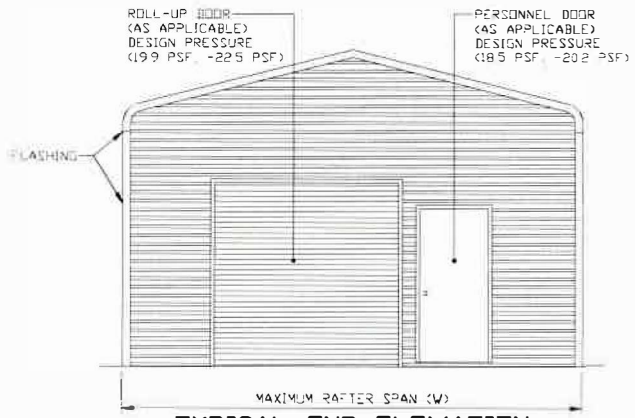
**BOX EAVE FRAME RAFTER STRUCTURE (Sheets 5, 6, 9, 9A, 10, 12, 13, 14, 15, 18, 19, 20 AND 21)**



**TYPICAL END ELEVATION-HORIZONTAL ROOF**  
SCALE: NTS

**TYPICAL SIDE ELEVATION-HORIZONTAL ROOF**  
SCALE: NTS

**BOW FRAME RAFTER STRUCTURE (Sheets 7, 8, 9, 9A, 11, 12, 13, 14, 16, 18, 19, 20 AND 21)**

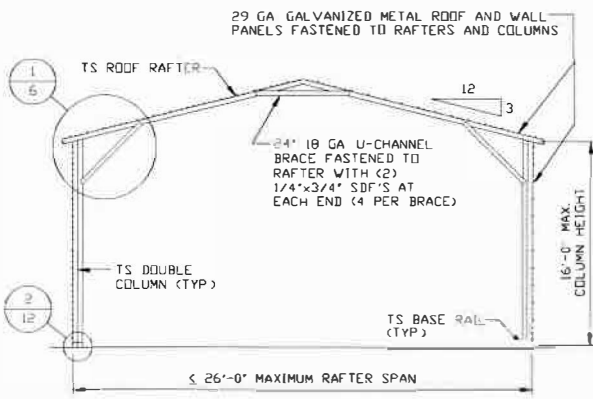


**TYPICAL END ELEVATION**  
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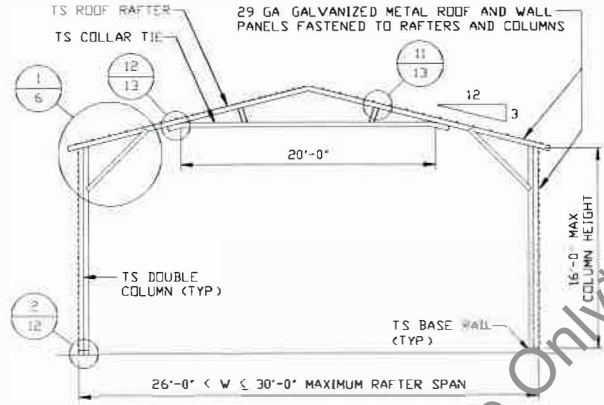
**TYPICAL END ELEVATION**  
SCALE: NTS

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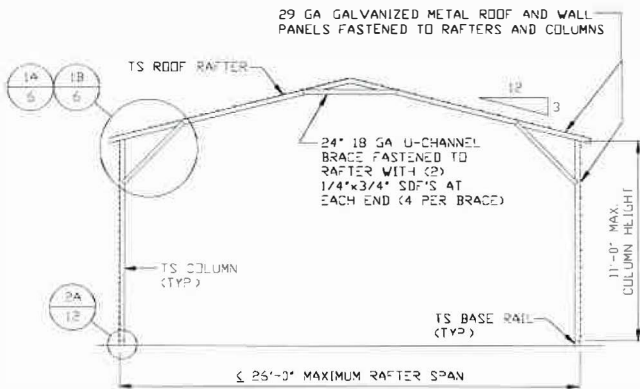
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	CLIENT: CC	SHT. 4	DWG. NO: SK-3	REV: 3



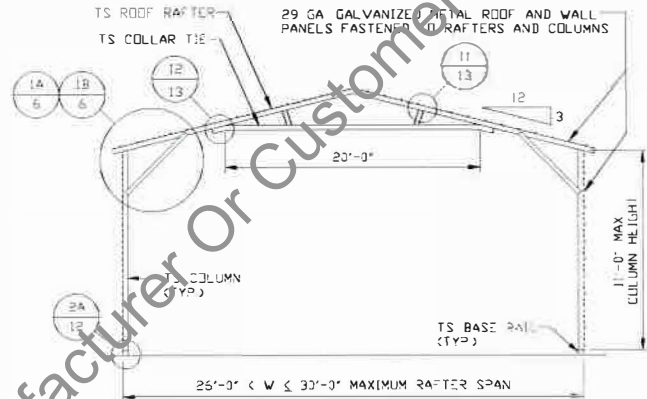
**TYPICAL RAFTER/COLUMN END FRAME SECTION**  
SCALE: NTS



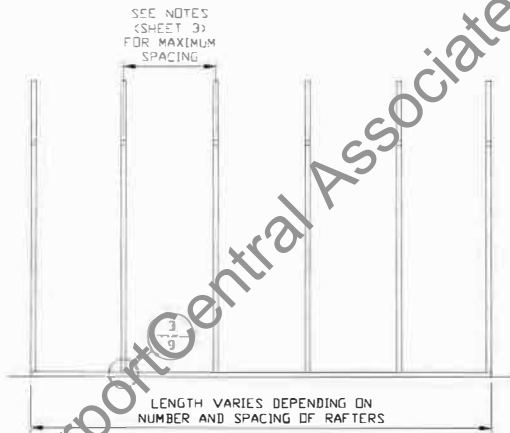
**TYPICAL RAFTER/COLUMN END FRAME SECTION**  
SCALE: NTS



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



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



**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**  
SCALE: NTS

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**DRAWN BY: JG**  
**CHECKED BY: PDH**

CARPOT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
30'-0" x 16'-0" ENCLOSED STRUCTURE

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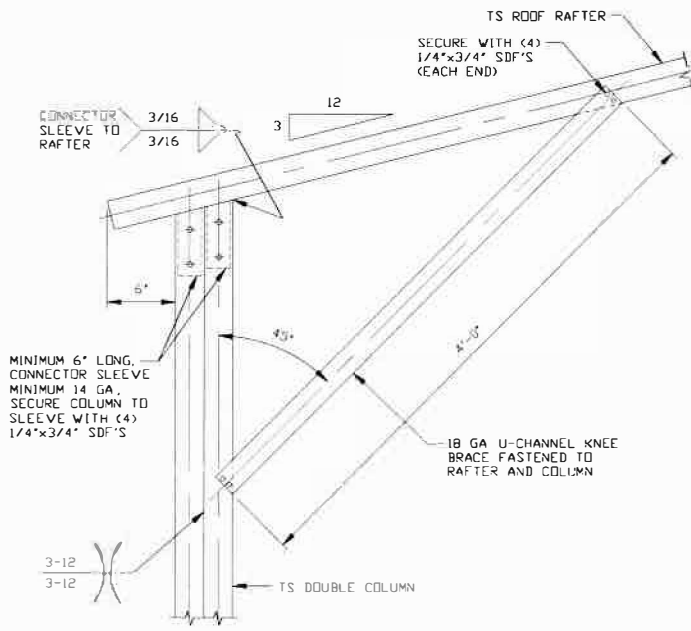
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**CLIENT: CC**

**DATE: 6-17-21**  
**SHT. 5**

**SCALE: NTS**  
**DWG. NO: SK-3**

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20376S/21118S**  
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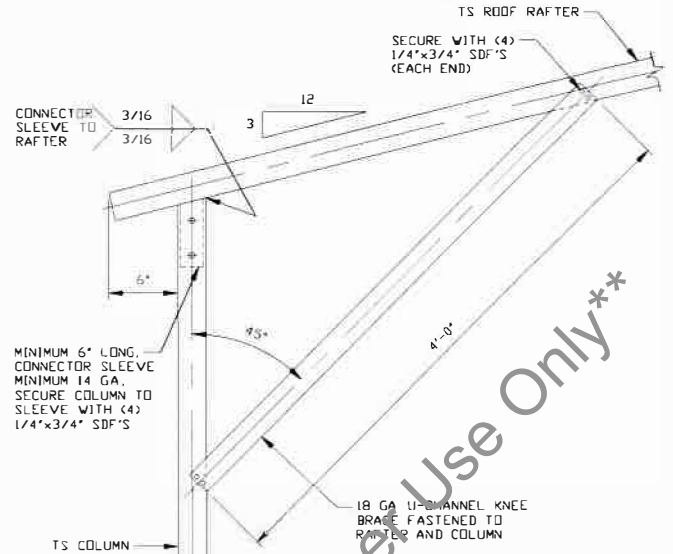




**BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO <= 16'-0"**

1

SCALE: NTS

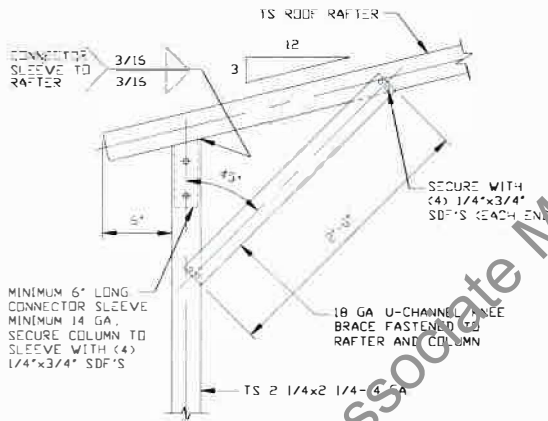


**BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 9'-0" < TO <= 11'-0"**

1A

SCALE: NTS

NOTE: MAXIMUM COLUMN HEIGHT IS 12'-0" FOR WIND SPEEDS <= 128 MPH.

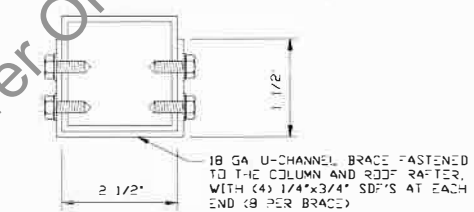


**BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 9'-0"**

1B

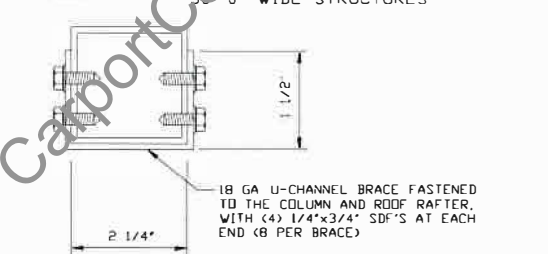
SCALE: NTS

NOTE: KNEE BRACE MUST BE 4'-0" FOR >= 30'-0" WIDE STRUCTURES



**BRACE SECTION**

SCALE: NTS



**BRACE SECTION**

SCALE: NTS

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PROJECT MGR: VSM

CLIENT: CC

CARPOT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030

30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 6-17-21

SHT. 6

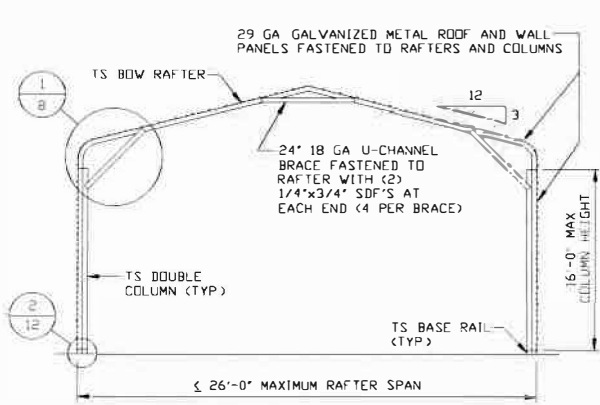
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DWG. NO: SK-3

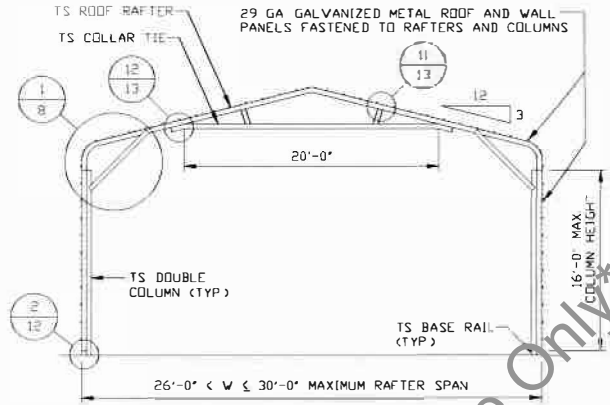
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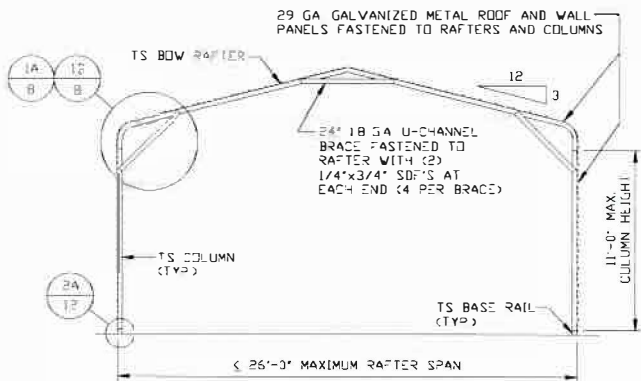
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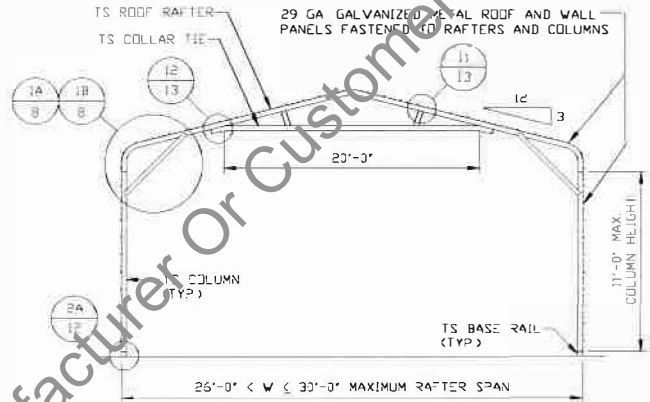
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SCALE: NTS



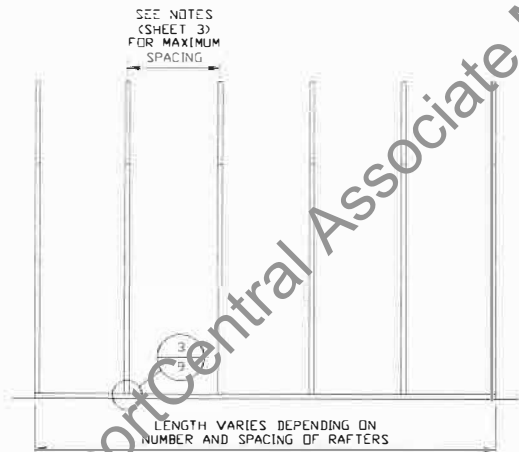
**TYPICAL RAFTER/COLUMN END FRAME SECTION**  
SCALE: NTS



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



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



**TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION**  
SCALE: NTS

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737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030

30'-0" x 16'-0" ENCLOSED STRUCTURE

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SHT. 7

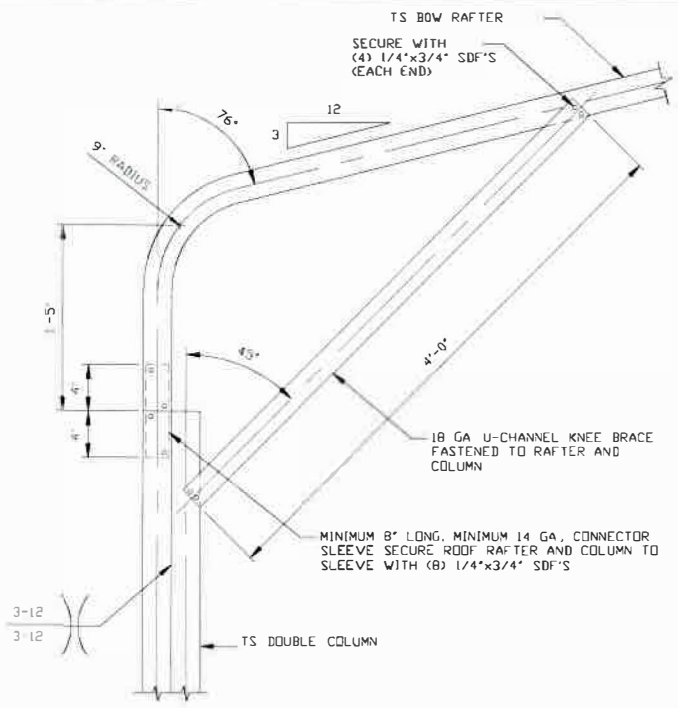
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DWG. NO SK-3

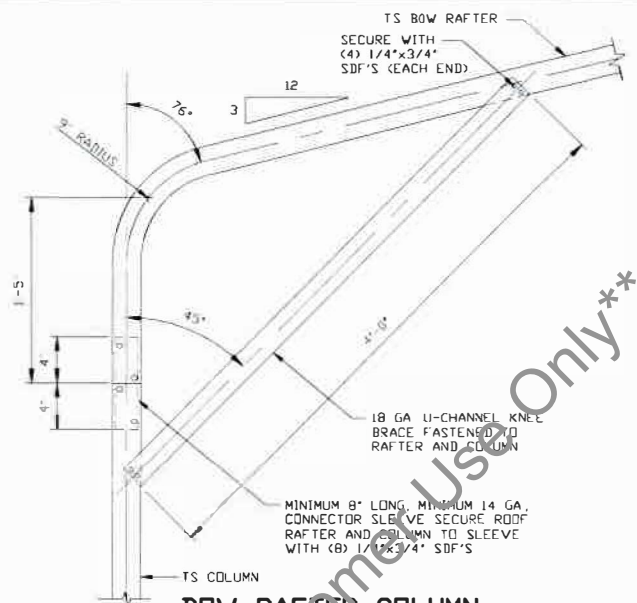
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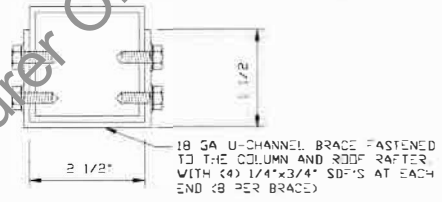


**BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO ≤ 16'-0"**  
SCALE: NTS



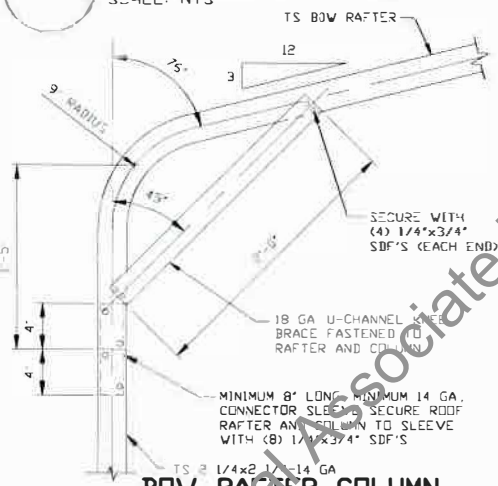
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SCALE: NTS  
NOTE: MAXIMUM COLUMN HEIGHT IS 12'-0" FOR WIND SPEEDS ≤ 128 MPH.

1A



**BRACE SECTION**  
SCALE: NTS

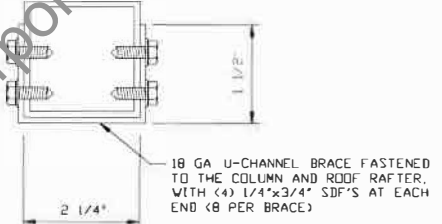
1



**BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 9'-0"**  
SCALE: NTS

1B

NOTE: KNEE BRACE MUST BE 4'-0" FOR 30'-0" WIDE STRUCTURES



**BRACE SECTION**  
SCALE: NTS

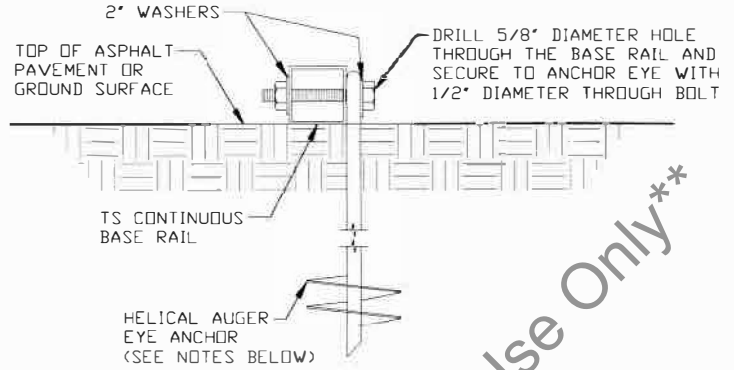
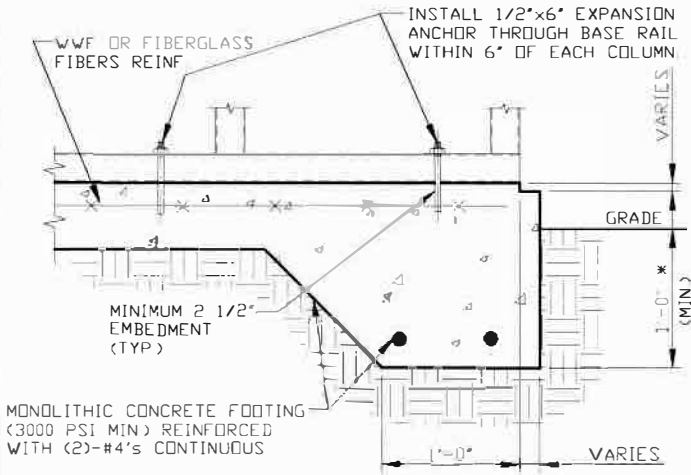
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**CHECKED BY:** PDH  
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**SHT.** 8  
**DWG. NO:** SK-3  
**REV.** 3

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**BASE RAIL ANCHORAGE OPTIONS**



3A

**CONCRETE MONOLITHIC SLAB  
BASE RAIL ANCHORAGE**

SCALE: NTS  
MINIMUM ANCHOR EDGE DISTANCE IS 4"  
\* COORDINATE WITH LOCAL BUILDING CODE/ORD  
REGARDING MINIMUM FROST DEPTH (LENGTH)

3B

**HELICAL AUGER ANCHORAGE**

SCALE: NTS (CAN BE USED FOR ASPHALT)  
\* COORDINATE WITH LOCAL BUILDING CODE/ORD  
REGARDING MINIMUM FROST DEPTH (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

**HELICAL AUGER 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" 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: JG**

**CHECKED BY: PDH**

**PROJECT MGR: WSM**

**CLIENT: CC**

CARPORIT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
30'-0" x 16'-0" ENCLOSED STRUCTURE

**DATE: 6-17-21**

**SHT. 9**

**SCALE: NTS**

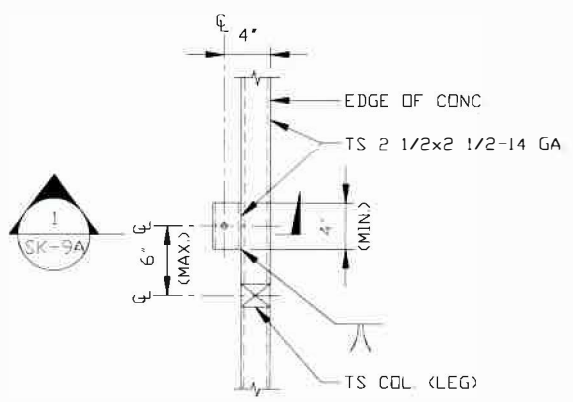
**DWG. NO: SK-3**

**JOB NO: 1717S/18253S/  
20376S/21118S**

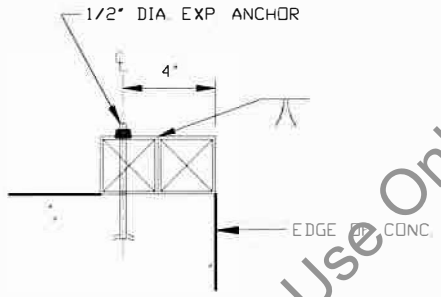
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**BASE RAIL ANCHORAGE OPTION**



**TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE**  
SCALE: NTS

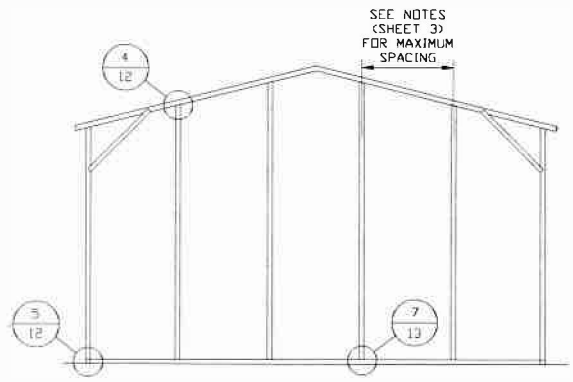


**SECTION**  
SCALE: NTS

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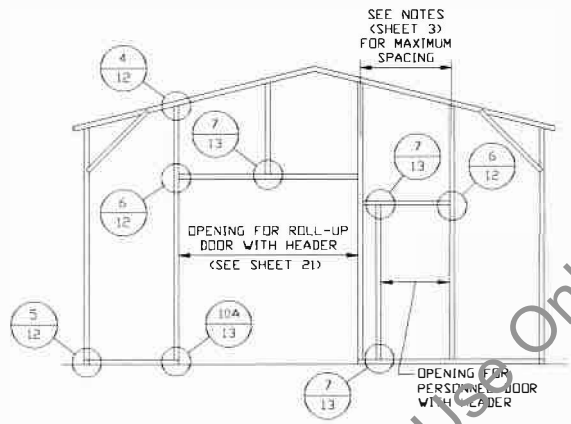
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	CHECKED BY: PDH			
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	CLIENT: CC	SHT. 9A	DWG. NO SK-3	REV: 3

**BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS**



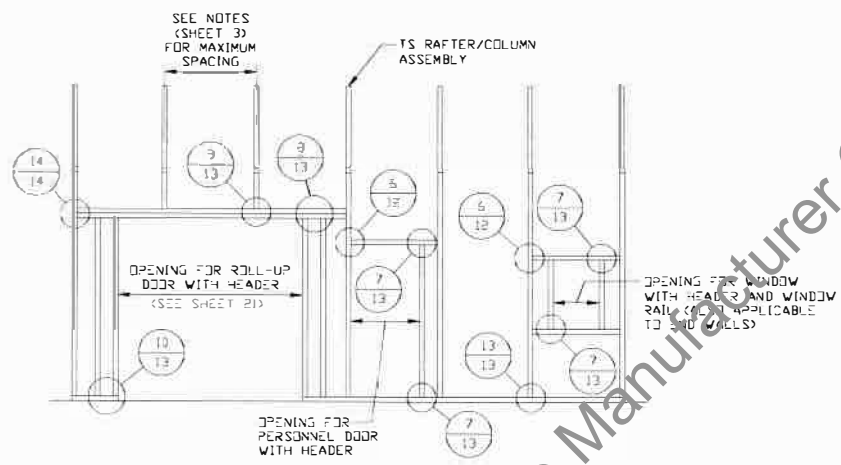
**TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



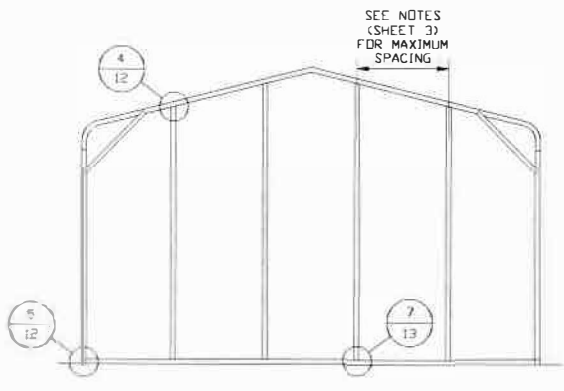
**TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION**

SCALE: NTS

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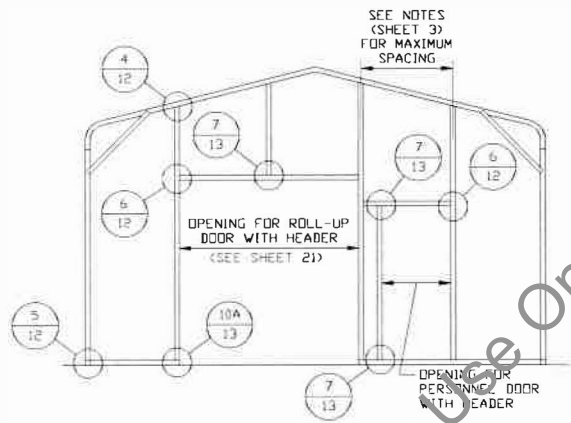
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	<b>CLIENT: CC</b>	<b>SHT. 10</b>	<b>DWG. NO: SK-3</b>	<b>REV: 3</b>

**BOW RAFTER END WALL AND SIDE WALL FRAMING SECTIONS**



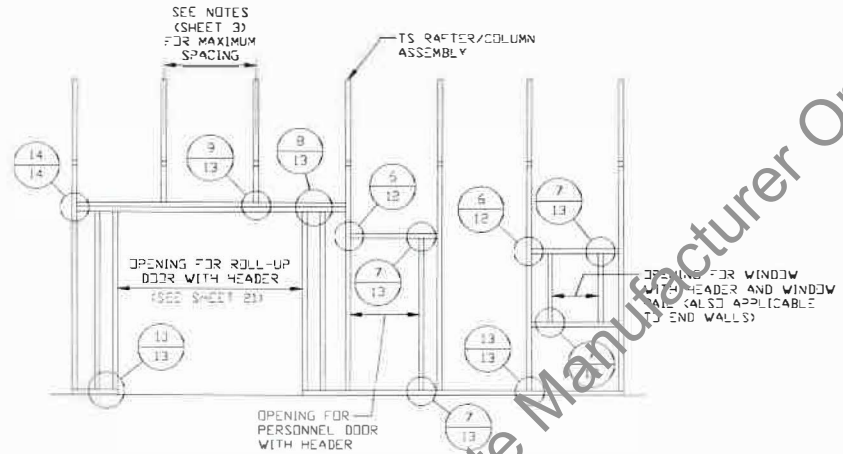
**TYPICAL BOW RAFTER  
END WALL FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



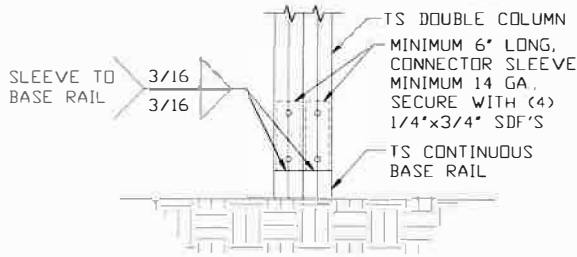
**TYPICAL BOW RAFTER SIDE  
WALL OPENINGS FRAMING SECTION**

SCALE: NTS

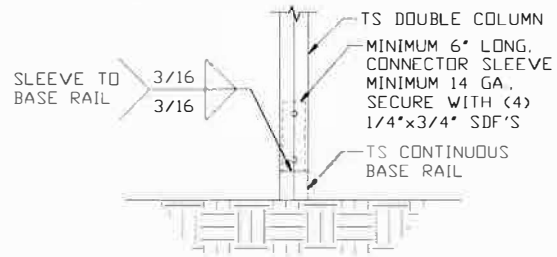
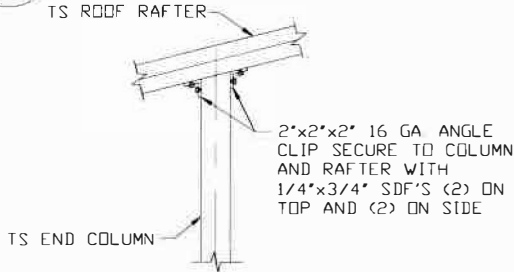
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	CLIENT: CC	SHT. 11	DWG. NO: SK-3	REV. 3

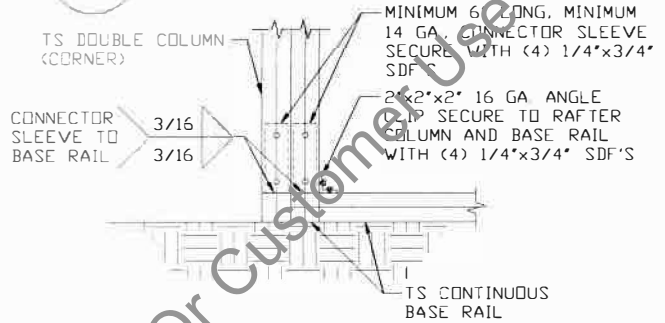
**CONNECTION DETAILS**



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

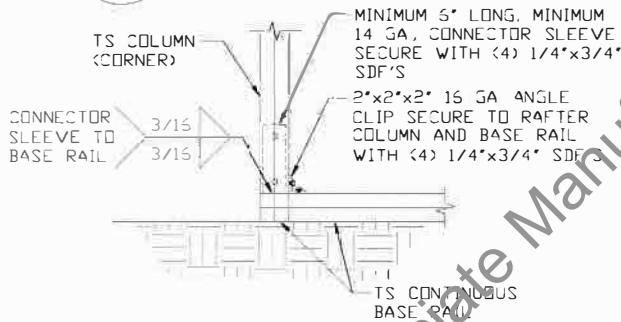


**2A** RAFTER COLUMN/BASE RAIL CONNECTION DETAIL  
SCALE: NTS

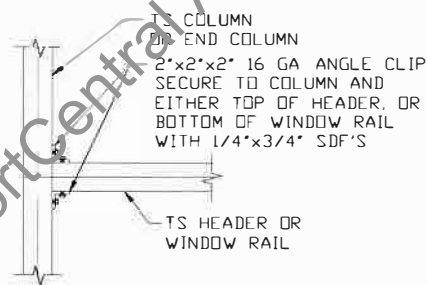


**5** END COLUMN/BASE RAIL CONNECTION DETAIL  
SCALE: NTS

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



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



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

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CARPOT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
30'-0"X16'-0" ENCLOSED STRUCTURE

DATE: 6-17-21

SHT. 12

SCALE: NTS

DWG. NO: SK-3

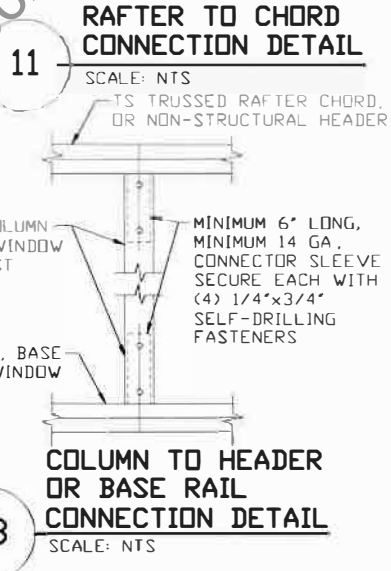
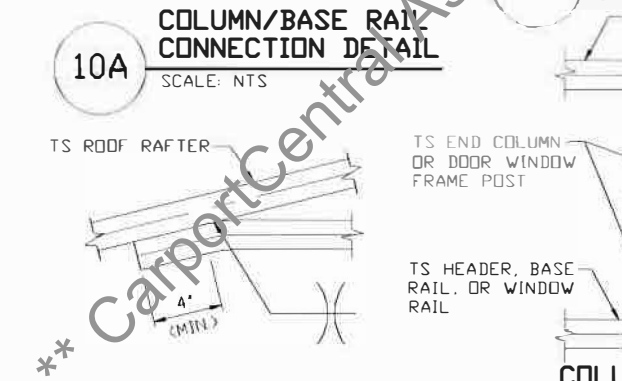
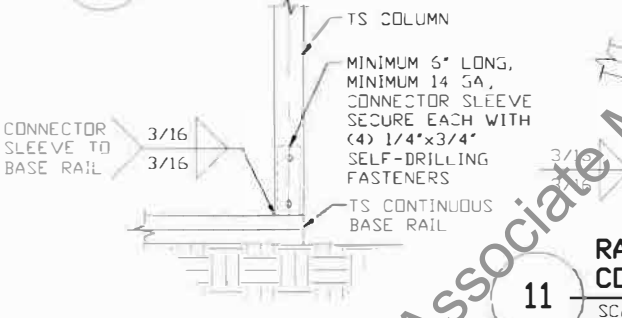
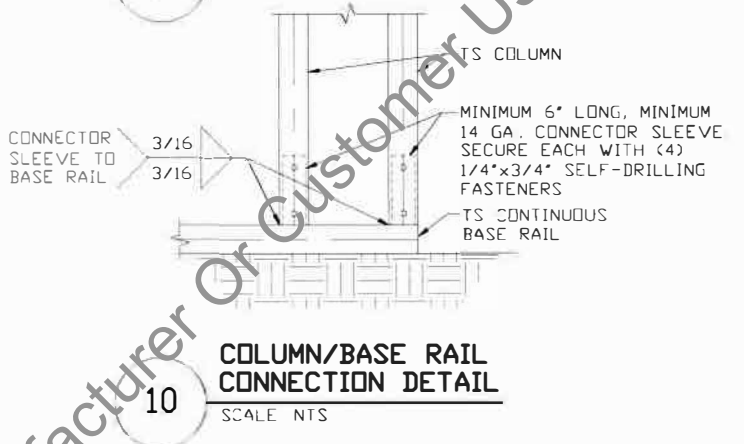
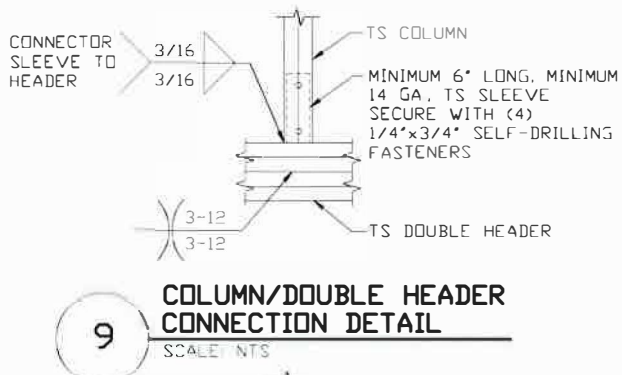
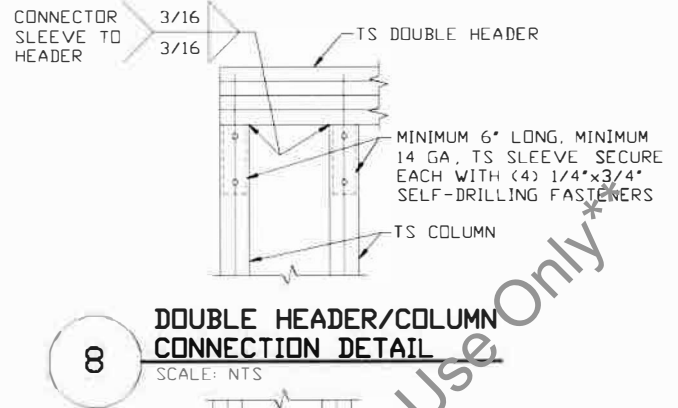
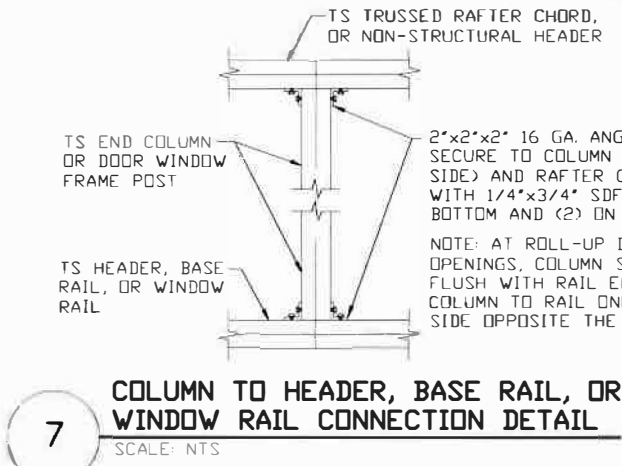
JOB NO: 17171S/18253S/  
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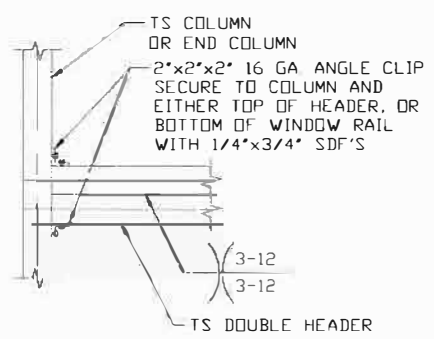
**CONNECTION DETAILS**



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CLIENT: CC	SHT. 13	DWG. NO: SK-3	REV: 3	

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**CONNECTION DETAILS**

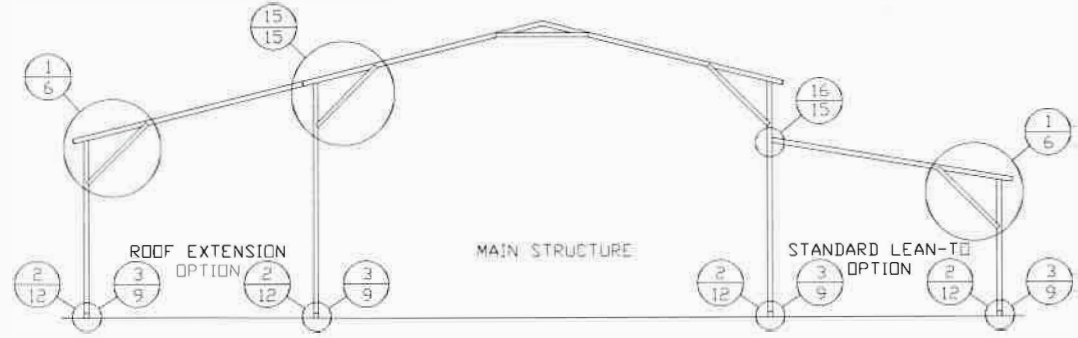


**14** COLUMN/DOUBLE HEADER CONNECTION DETAIL  
SCALE: NTS

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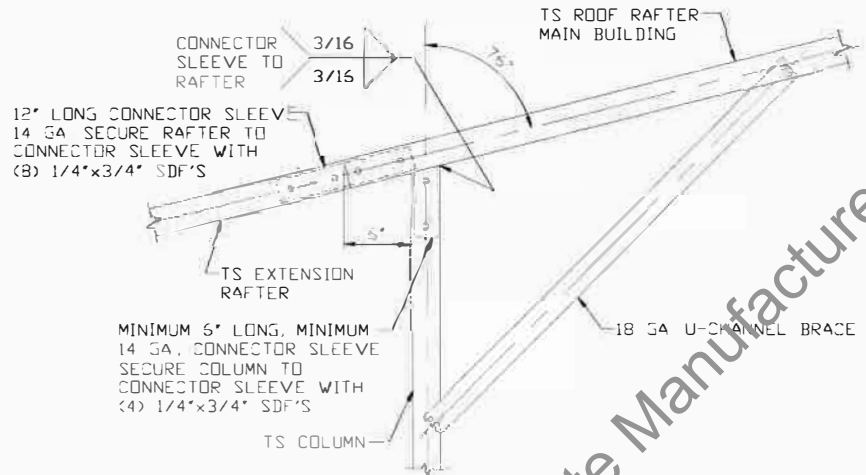
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**BOX EAVE RAFTER LEAN-TO OPTIONS**



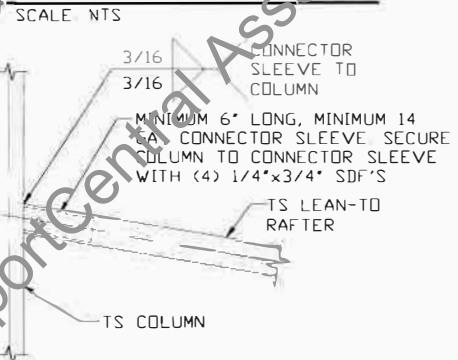
**TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)**

SCALE: NTS  
 (MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION LEAN-TO IS 12'-0")  
 NOTE: FOR 12'-0" WIDE LEAN-TO KNEE BRACE MUST BE 4'-0".  
 MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 9'-0" < TO ≤ 16'-0".  
 MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS ≤ 9'-0".



**SIDE EXTENSION RAFTER COLUMN DETAIL FOR SPANS ≤ 12'-0"**

15



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

16

SCALE: NTS

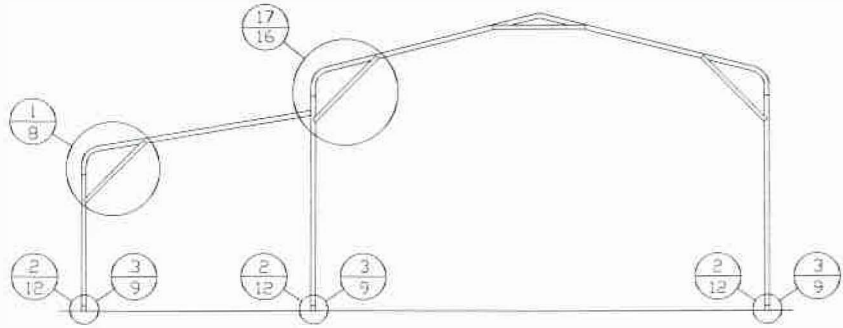
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 MOUNT AIRY, NC 27030  
 30'-0" x 16'-0" ENCLOSED STRUCTURE  
**JOB NO: 17171S/18253S/20376S/21118S**  
**DATE: 6-17-21**  
**SCALE: NTS**  
**SHT. 15**  
**DWG. NO: SK-3**  
**REV: 3**

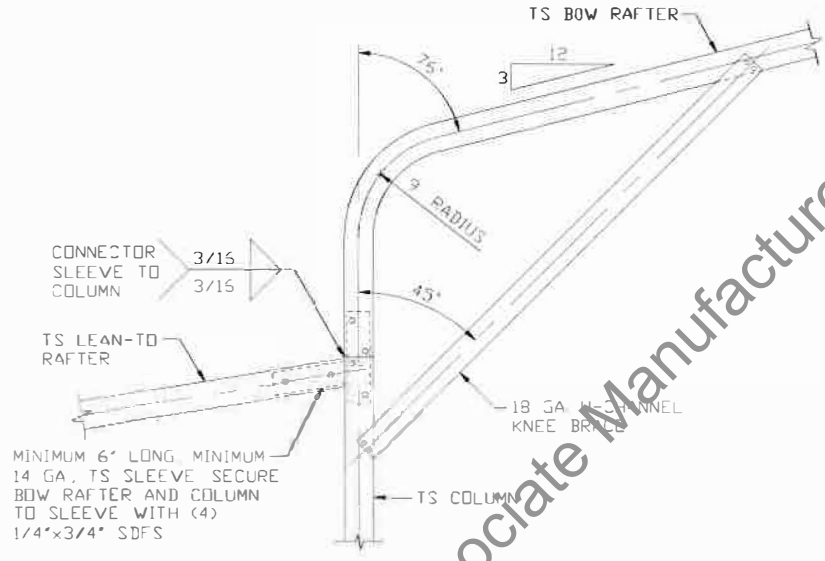
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**BOW RAFTER LEAN-TO OPTION**



**TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION**

SCALE: NTS  
 (MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION LEAN-TO IS 12'-0")  
 NOTE: FOR 12'-0" WIDE LEAN-TO KNEE BRACE MUST BE 4'-0"  
 MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 9'-0" < TO < 16'-0"  
 MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS < 9'-0"



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

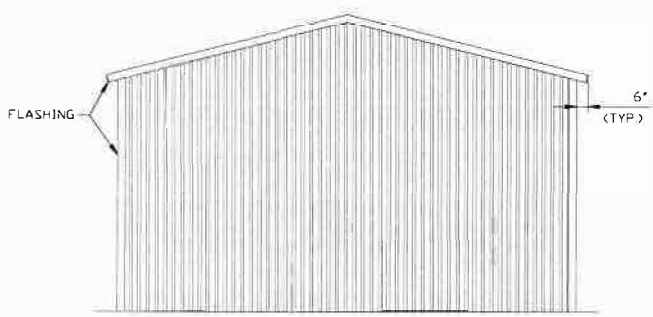
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SCALE: NTS

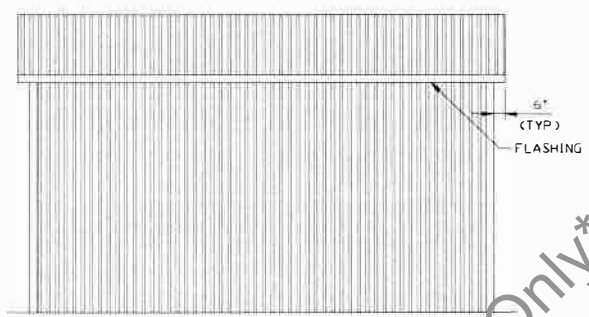
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	CLIENT: CC	SHT. 16	DWG. NO SK-3	REV: 3

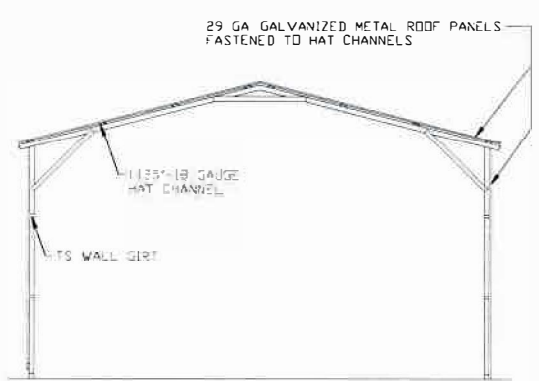
**BOX EAVE RAFTER VERTICAL ROOF OPTION**



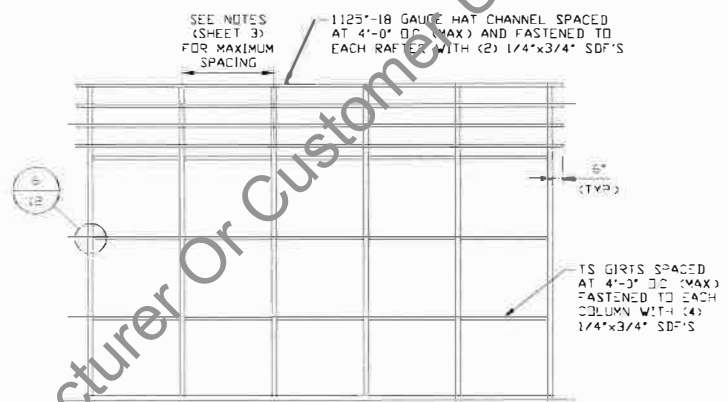
**TYPICAL END ELEVATION  
VERTICAL ROOF**  
SCALE: NTS



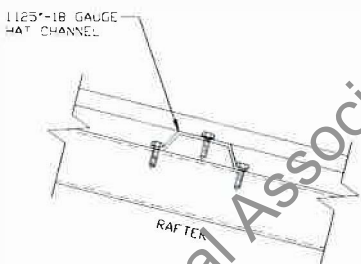
**TYPICAL SIDE ELEVATION  
VERTICAL ROOF**  
SCALE: NTS



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



**TYPICAL FRAMING SECTION  
VERTICAL ROOF OPTION**  
SCALE: NTS  
NOTE: HAT CHANNELS CAN BE USED AS AN OPTION IN PLACE OF TS GIRTS. HAT CHANNELS MUST BE SPACED AT 4'-0" OC (MAX)

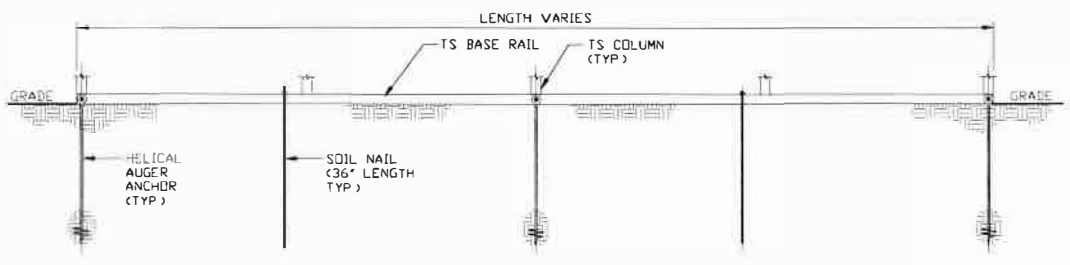


**ROOF PANEL ATTACHMENT**  
(ALTERNATE FOR VERTICAL ROOF PANELS)  
SCALE: NTS

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	CLIENT: CC	SHT. 17	DWG. NO: SK-3	REV: 3

**OPTIONAL BASE RAIL ON GRADE APPLICATION**

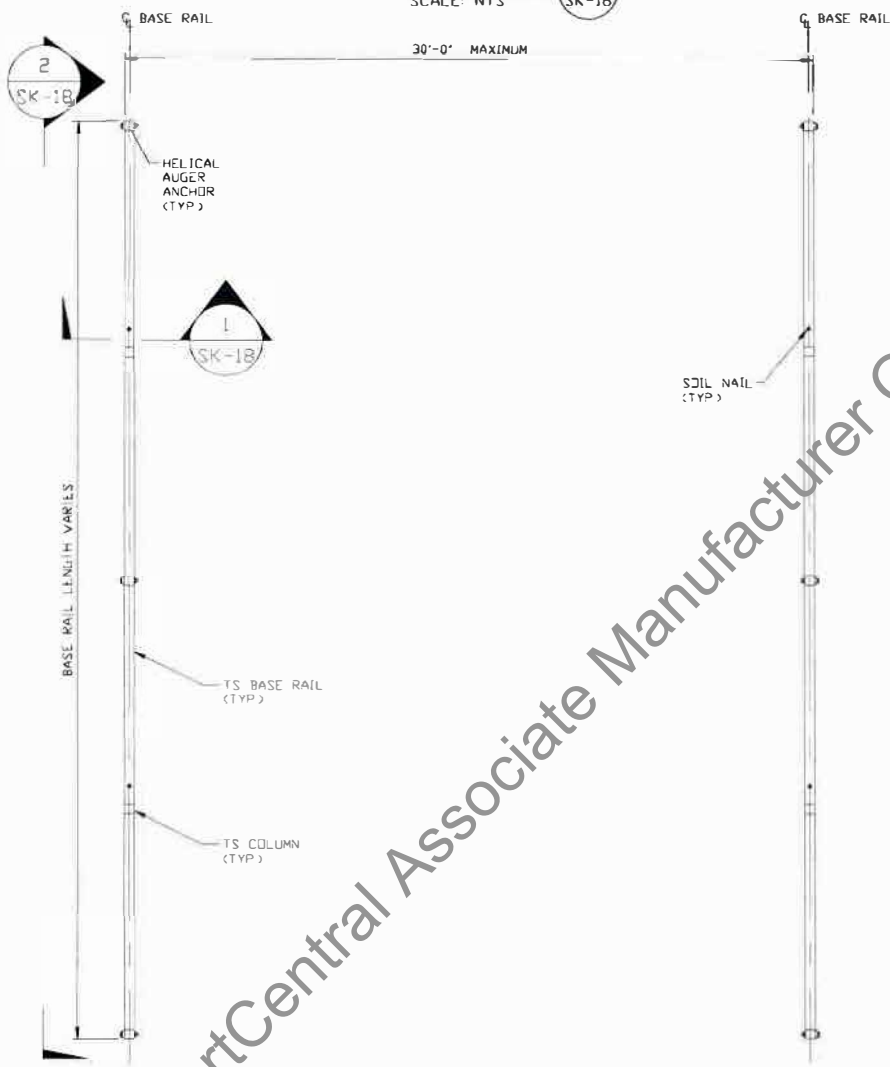


**SECTION 2**  
SCALE: NTS  
SK-18



**SECTION 1**  
SCALE: NTS  
SK-18

NOTE: SEE DETAIL 3B SHEET 9 FOR HELICAL AUGER ANCHOR DETAIL

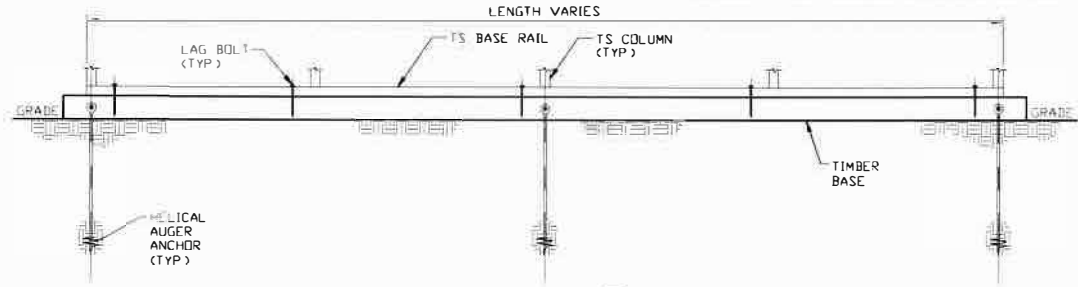


**BASE RAIL PLAN**  
SCALE: NTS

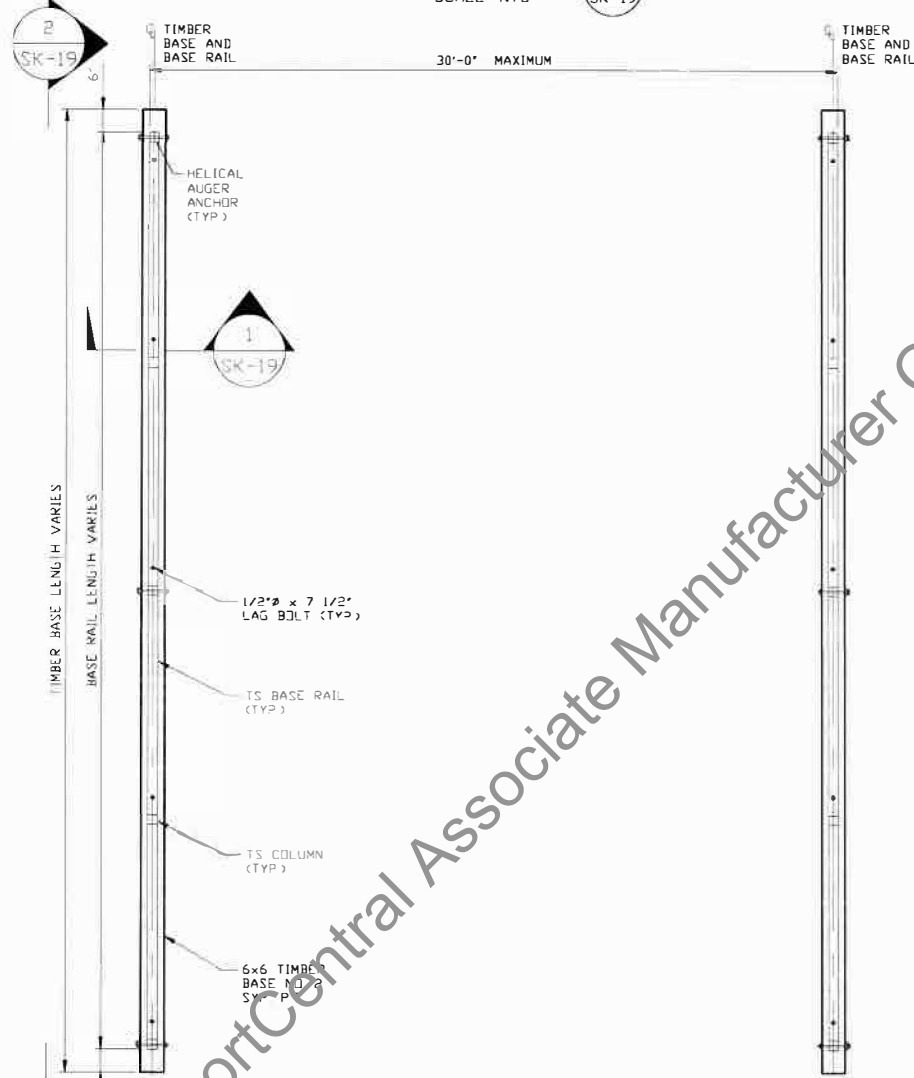
HELIX ANCHOR	
SIDE LENGTH	SPACING
VARIES	10'-0" (AT EVERY OTHER COLUMN)

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	CHECKED BY: PDH	PROJECT MGR: WSH	DATE: 6-17-21	SCALE: NTS
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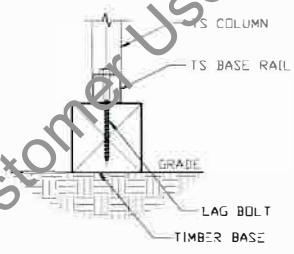
**OPTIONAL BASE RAIL ON TIMBER BEAM**



**SECTION 2**  
SCALE: NTS  
SK-19



**BASE RAIL PLAN**  
SCALE: NTS



**SECTION 1**  
SCALE: NTS  
SK-19

NOTE SEE DETAIL 3B SHEET 9 FOR HELICAL AUGER ANCHOR DETAIL

** HELIX ANCHOR	
SIDE LENGTH	SPACING
VARIES	10'-0" (AT EVERY OTHER COLUMN)

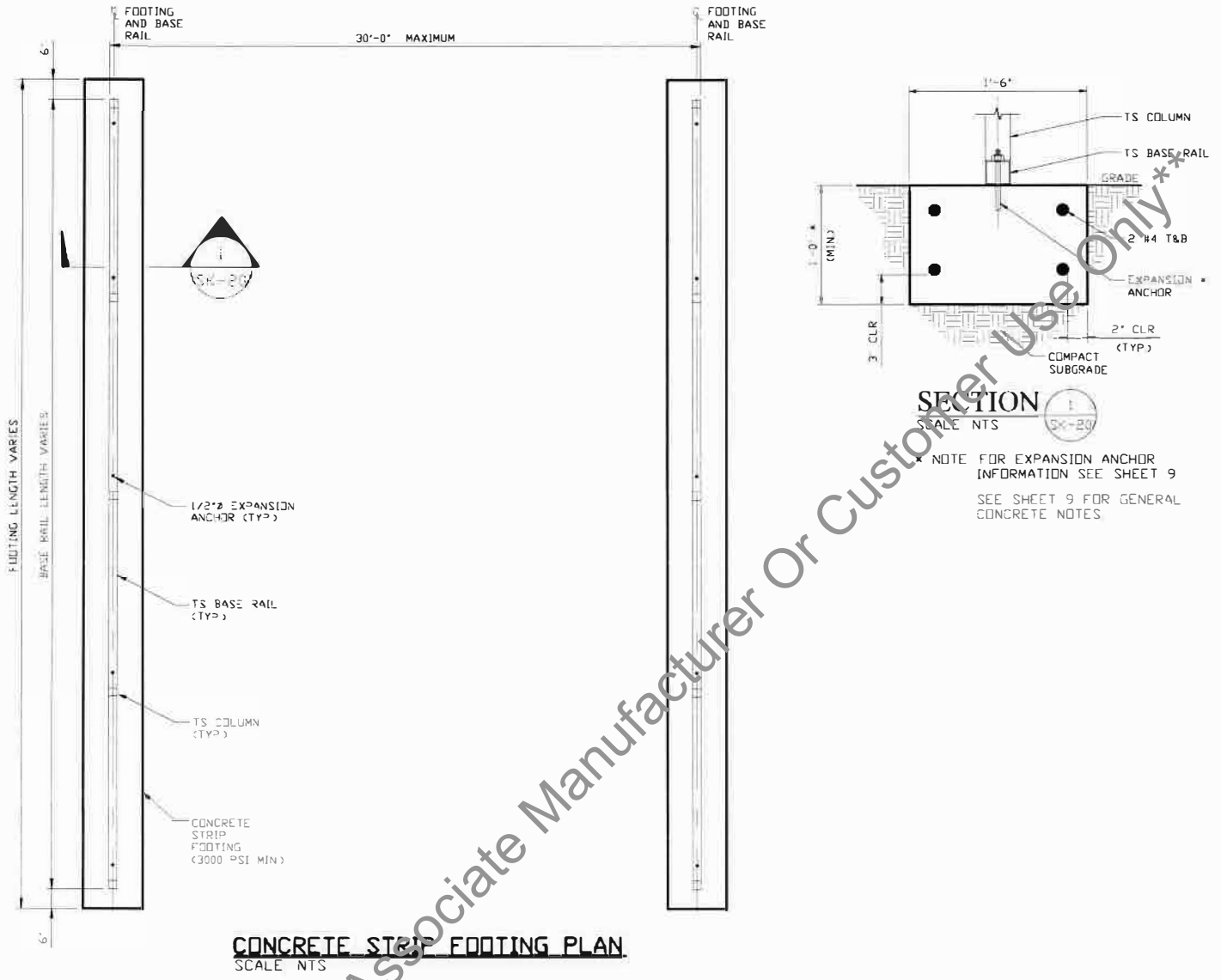
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CARPORIT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
30'-0" x 16'-0" ENCLOSED STRUCTURE  
**JOB NO:** 17171S/18253S/  
20376S/2111BS  
**DATE:** 6-17-21  
**SCALE:** NTS  
**SHT.** 19  
**DWG. NO** SK-3  
**REV.** 3

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**OPTIONAL CONCRETE STRIP FOOTING**



**CONCRETE STRIP FOOTING PLAN**  
SCALE: NTS

**SECTION**  
SCALE: NTS

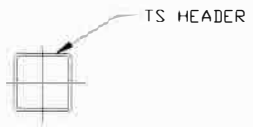
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<b>MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.</b>	DRAWN BY: JG	CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030 30'-0" x 16'-0" ENCLOSED STRUCTURE		
	CHECKED BY: PDH	PROJECT MGR: WSM	DATE: 6-17-21	SCALE: NTS
CLIENT: CC	SHT. 20	DWG. NO: SK-3	JOB NO: 17171S/18253S/ 20376S/21118S	REV: 3

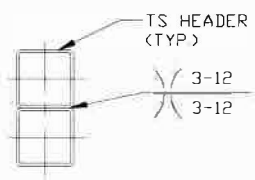
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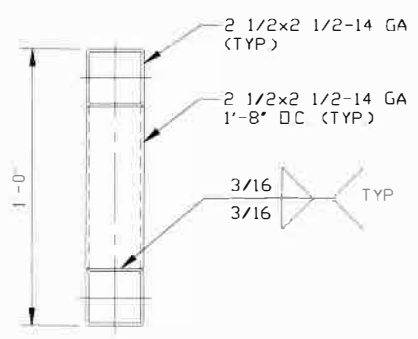
**SIDE WALL HEADER OPTIONS**



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

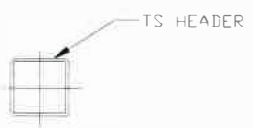


**HEADER DETAIL FOR OPENINGS  
7'-0" < LENGTH ≤ 12'-0"**  
SCALE: NTS

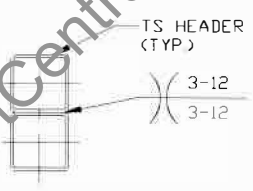


**HEADER DETAIL FOR  
OPENINGS 12'-0" < LENGTH ≤ 20'-0"**  
SCALE: NTS

**END WALL HEADER OPTIONS**



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



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

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