



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.




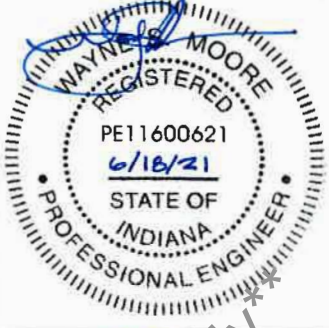





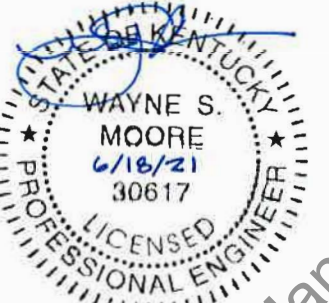
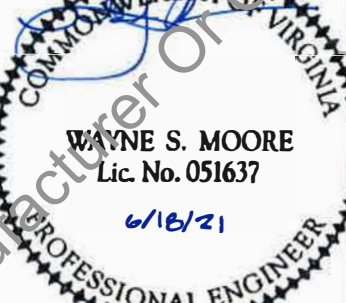


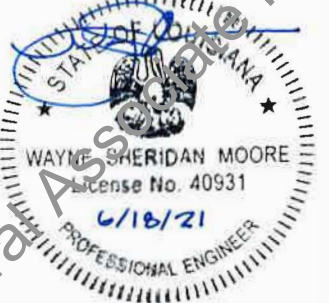
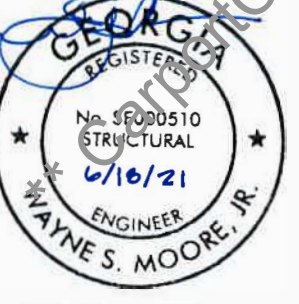

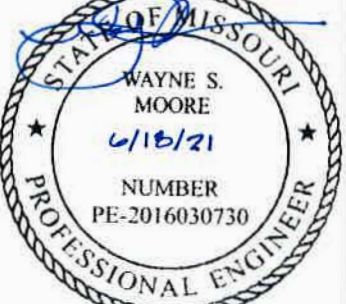

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		<p>I HAVE RESEARCHED THIS CHAPTER AND THE LOUISIANA STATE UNIFORM CONSTRUCTION CODE AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, THESE DRAWINGS ARE IN COMPLIANCE THEREWITH. I TAKE FULL RESPONSIBILITY FOR THE CONTENTS OF THESE PLANS.</p>	
			

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CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CC

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

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

DATE: 6-17-21

SHT. 1

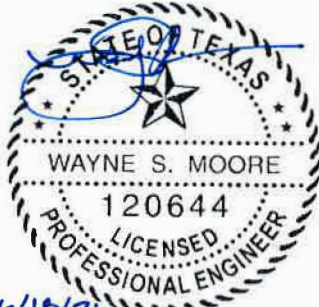




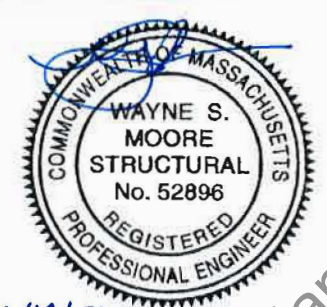




SCALE: NTS

DWG. NO: SK-3

JOB NO: 17171S/18253S/
20376S/21118S

REV: 3

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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 <u>6/18/22</u></p>		
			
			
			

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737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" ENCLOSED STRUCTURE
DATE: 6-17-21
SHT. 1A
SCALE: NTS
DWG. NO: SK-3
JOB NO: 1717S/18253S/
20376S/2118S
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	CHECKED BY: PDH	JOB NO: 17171S/18253S/ 20376S/21116S		
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INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR MAXIMUM 30'-0" WIDE x 16'-0" EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH 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 = ≤ 145 MPH (NOMINAL WIND SPEED = ≤ 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 AND 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 ≤ 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_sW

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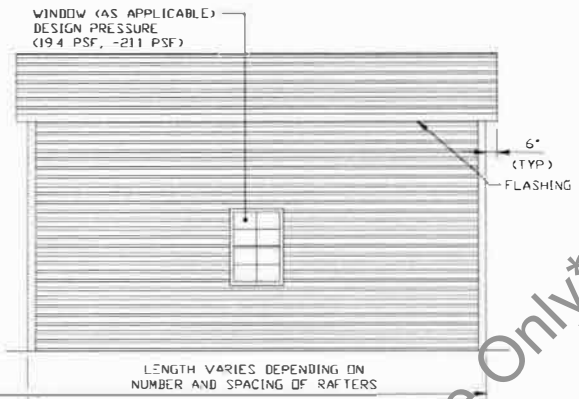
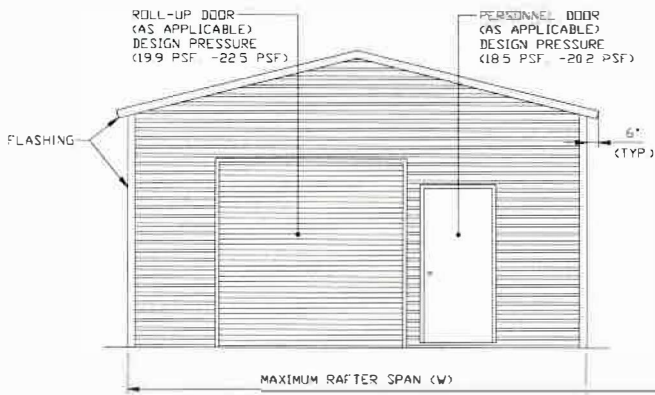
LIST OF APPLICABLE BUILDING CODES

- 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)



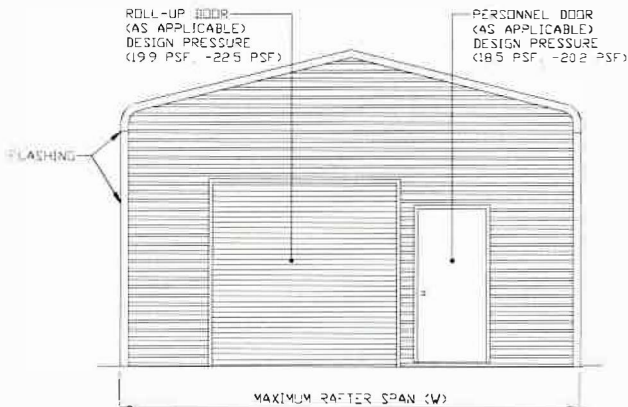
TYPICAL END ELEVATION-HORIZONTAL ROOF

SCALE: NTS

TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

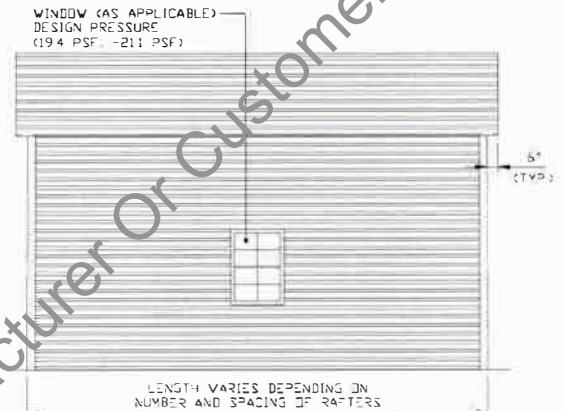
SCALE: NTS

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



TYPICAL END ELEVATION

SCALE: NTS



TYPICAL END ELEVATION

SCALE: NTS

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MOUNT AIRY, NC 27030**

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

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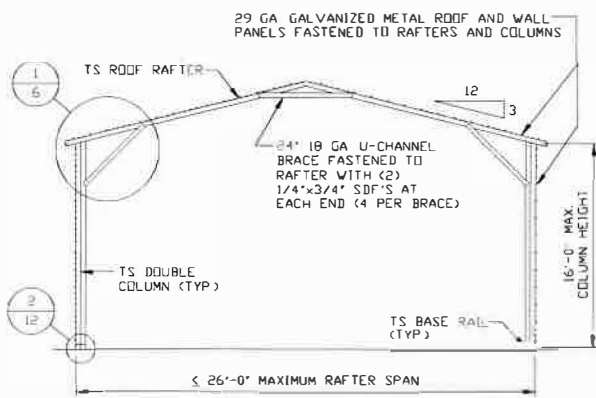
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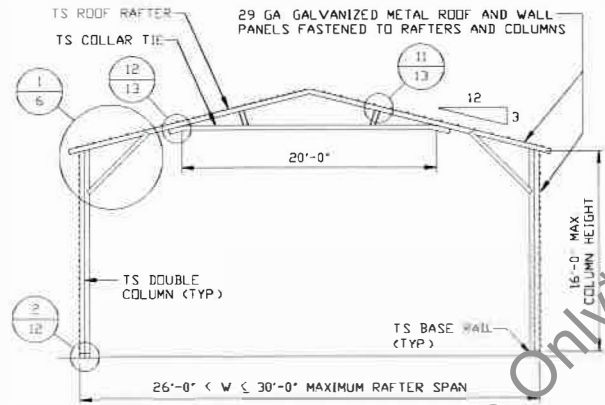
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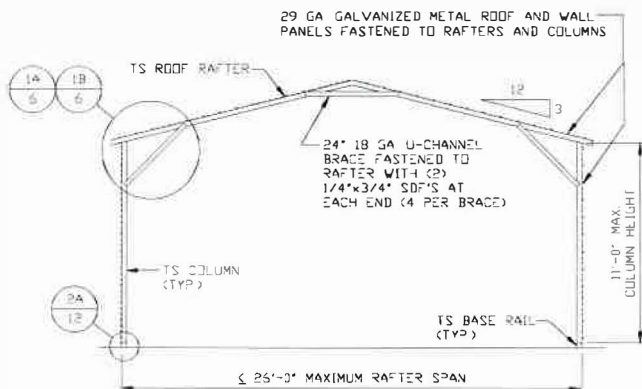
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



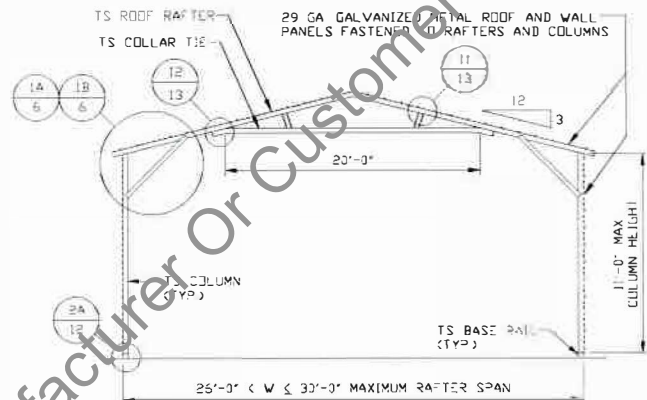
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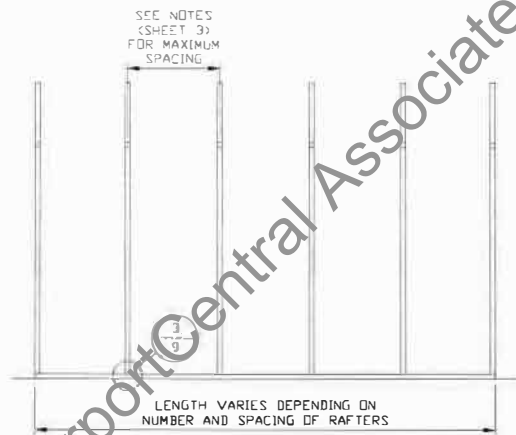
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

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

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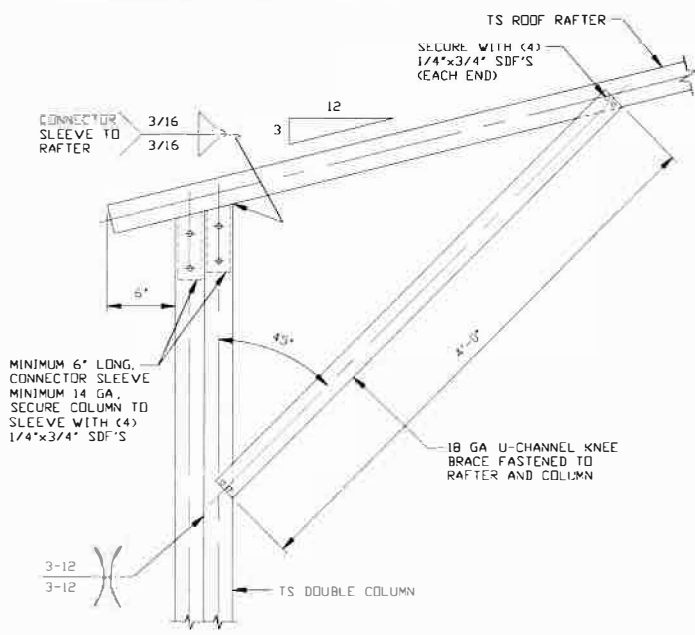
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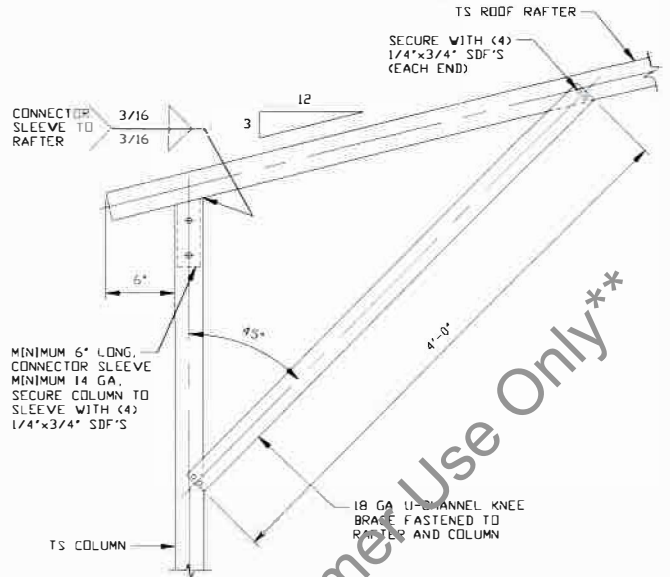
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BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO <= 16'-0"

1

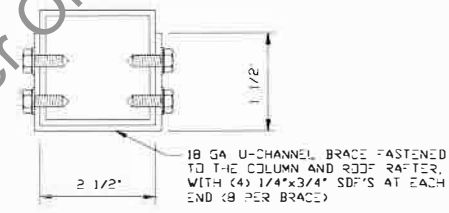
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BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 9'-0" < TO <= 11'-0"

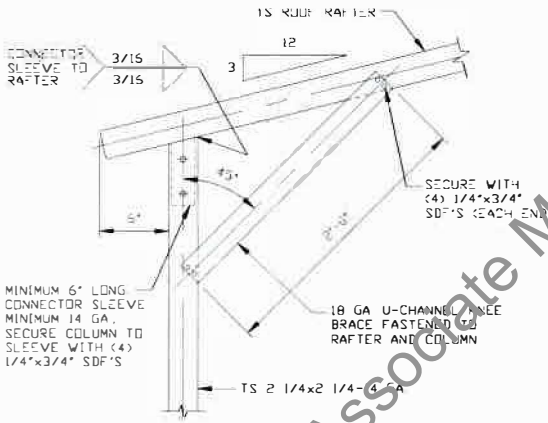
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SCALE: NTS
NOTE: MAXIMUM COLUMN HEIGHT IS 12'-0" FOR WIND SPEEDS <= 128 MPH.



BRACE SECTION

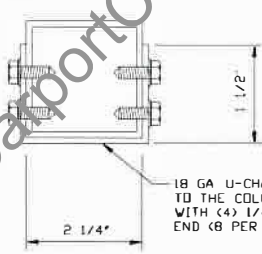
SCALE: NTS



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

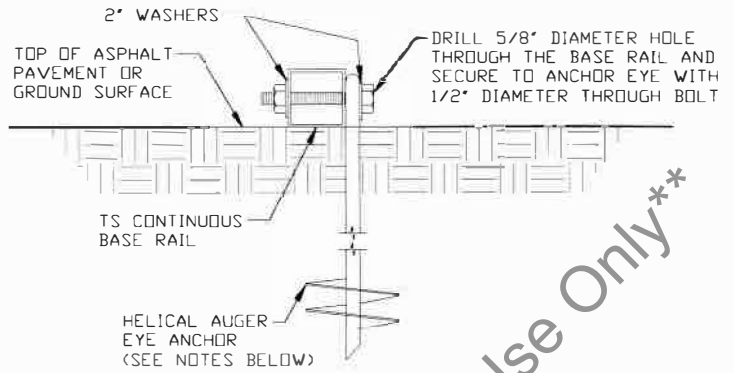
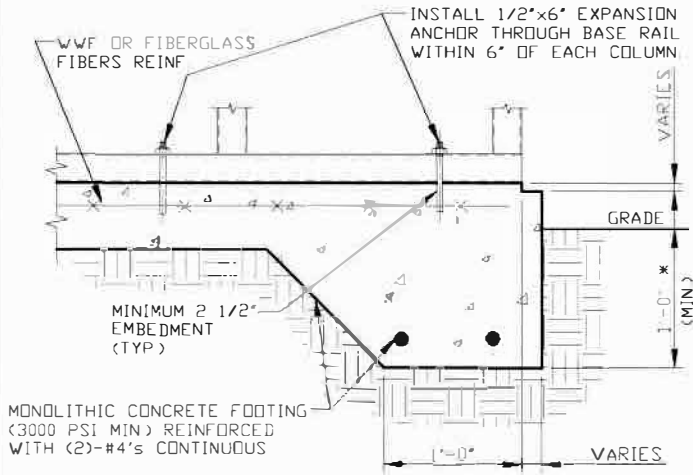
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BASE RAIL ANCHORAGE OPTIONS



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, PRE-CURED 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

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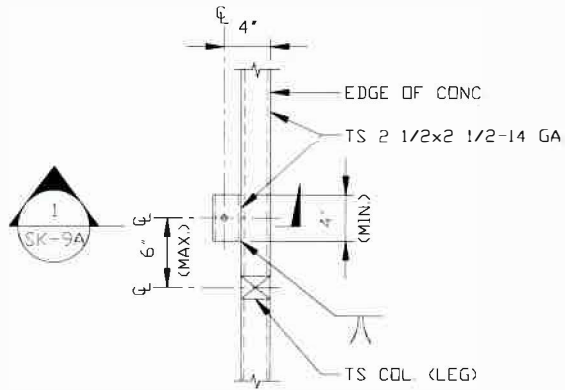
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REV: 3

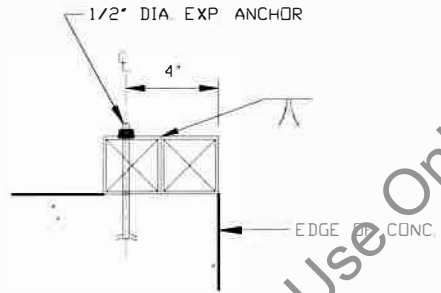
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BASE RAIL ANCHORAGE OPTION



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



SECTION

SCALE: NTS

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CHECKED BY: PDH

PROJECT MGR: WSM

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. 9A

SCALE: NTS

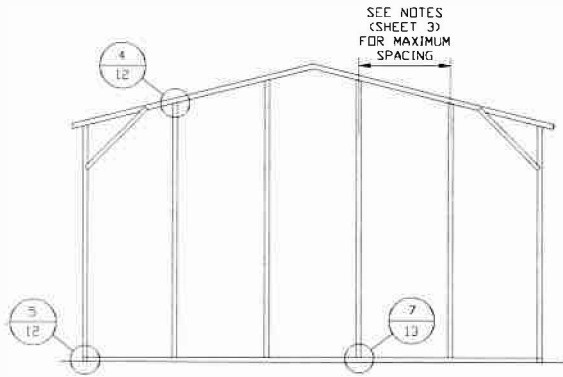
DWG. NO: SK-3

**JOB NO: 17171S/18253S/
20376S/21118S**

REV: 3

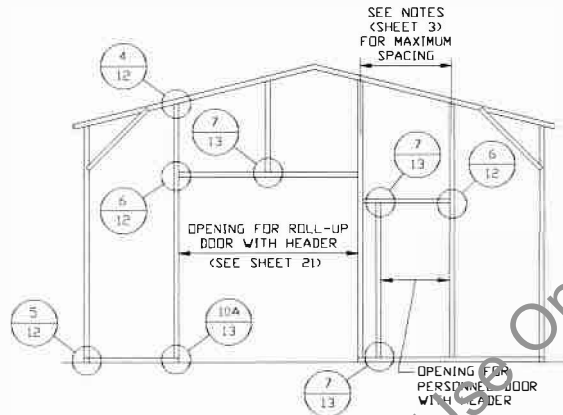
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BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



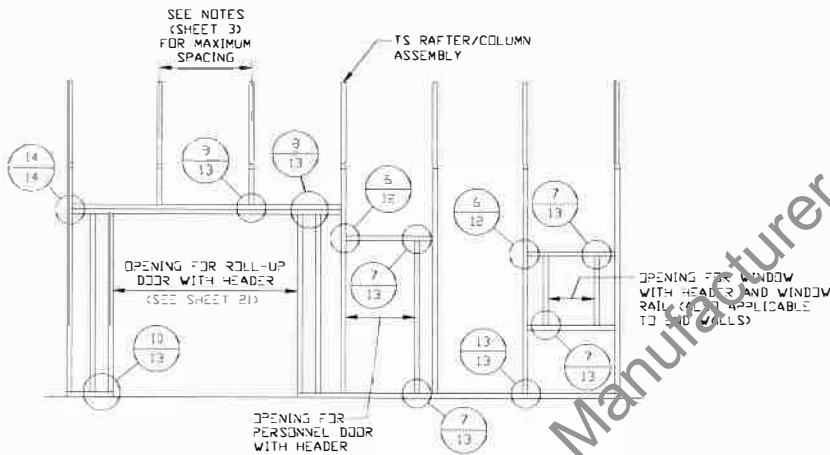
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

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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737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030

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

DATE: 6-17-21

SHT. 10

SCALE: NTS

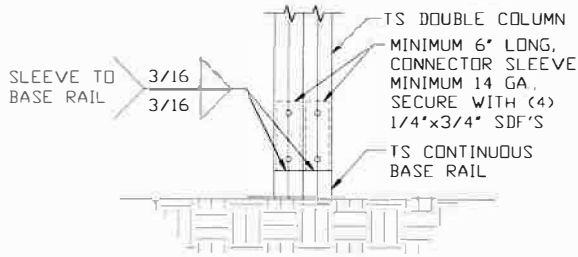
DWG. NO: SK-3

**JOB NO: 17171S/18253S/
20376S/21118S**

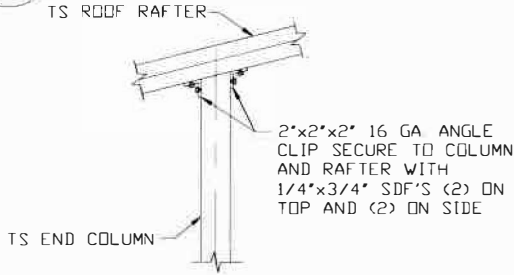
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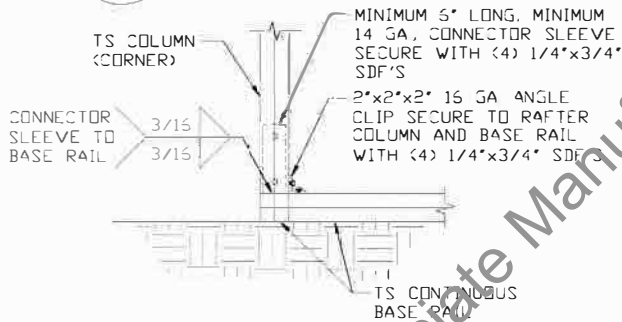
CONNECTION DETAILS



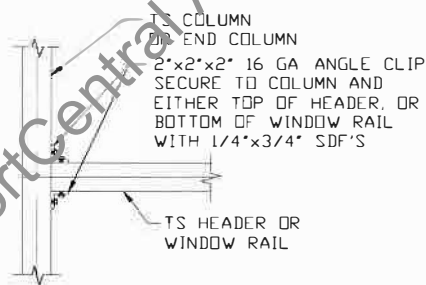
2 RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



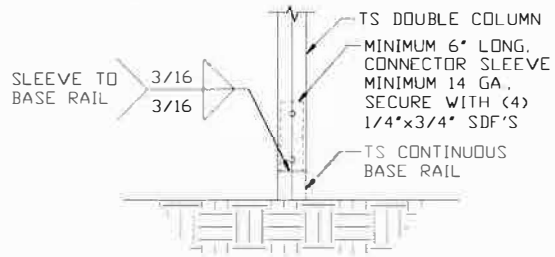
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



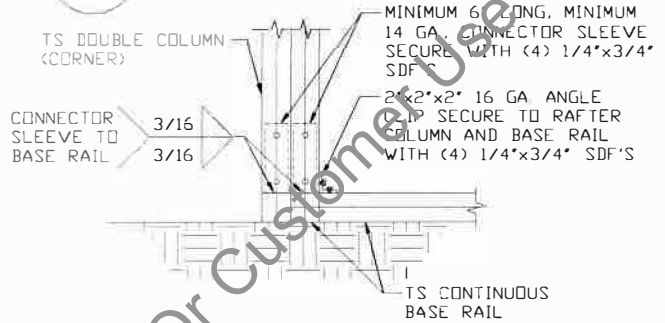
5 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



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



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



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

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

DATE: 6-17-21

SHT. 12

SCALE: NTS

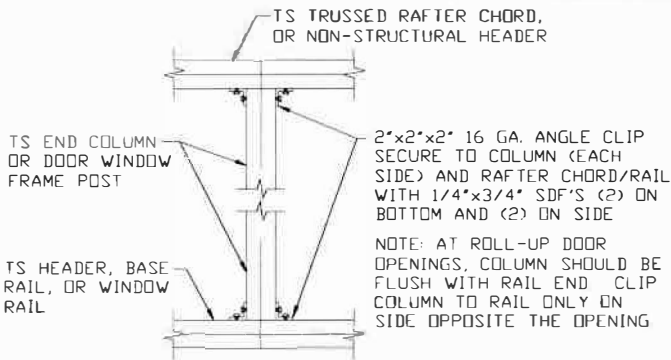
SUBMIT TO DESK ACTION

**JOB NO: 17171S/18253S/
20376S/21118S**

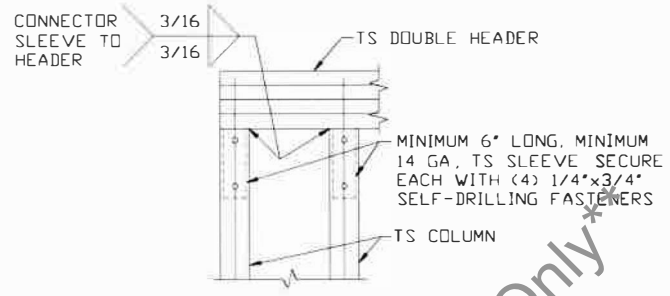
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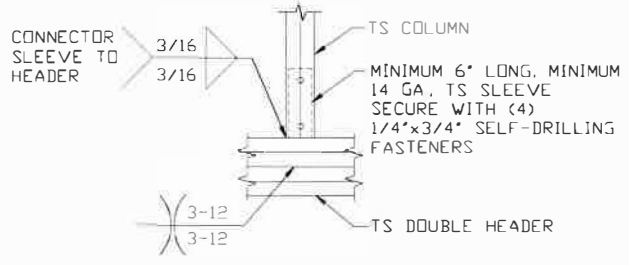
CONNECTION DETAILS



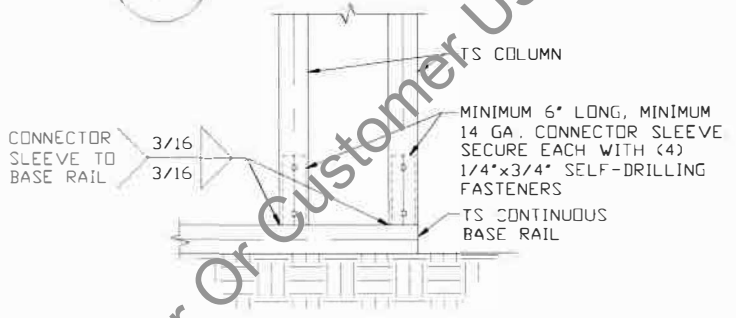
7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL
SCALE: NTS



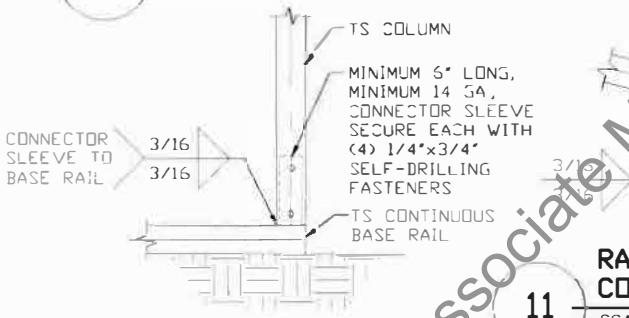
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



9 COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS

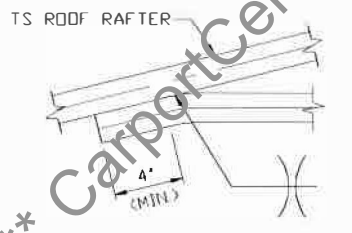


10 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

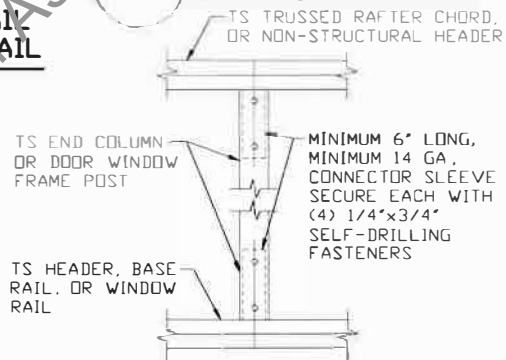


11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS

10A COLUMN/BASE RAIL 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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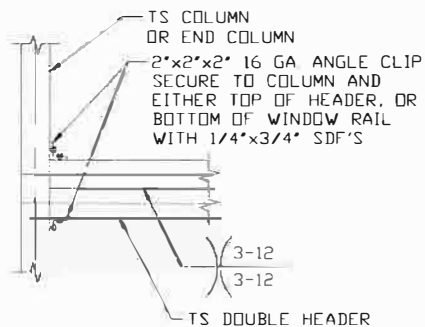
DRAWN BY: JG
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CARPORIT CENTRAL, INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
30'-0"x16'-0" ENCLOSED STRUCTURE

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

CONNECTION DETAILS

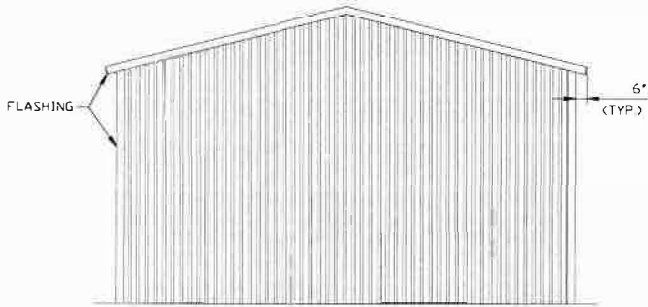


14 COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS

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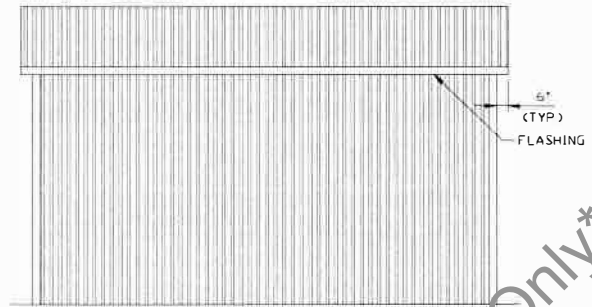
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG	CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030 30'-0" x 16'-0" ENCLOSED STRUCTURE		
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BOX EAVE RAFTER VERTICAL ROOF OPTION



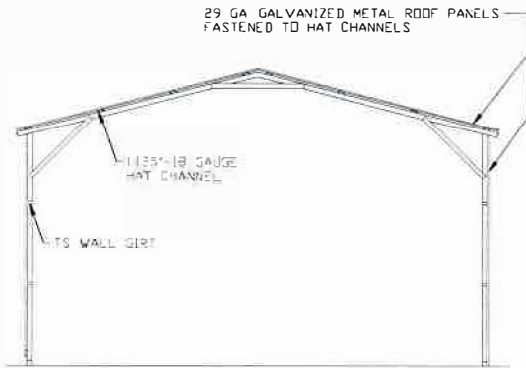
**TYPICAL END ELEVATION
VERTICAL ROOF**

SCALE: NTS



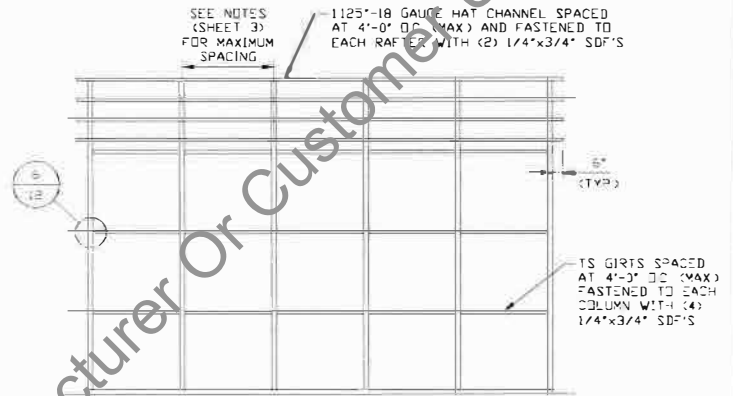
**TYPICAL SIDE ELEVATION
VERTICAL ROOF**

SCALE: NTS



**TYPICAL SECTION
VERTICAL ROOF OPTION**

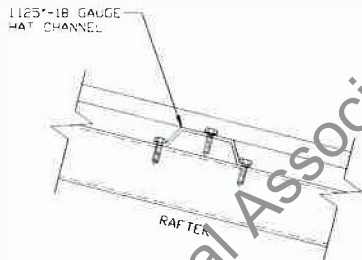
SCALE: NTS



**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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737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030

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

DATE: 6-17-21

SHT. 17

SCALE: NTS

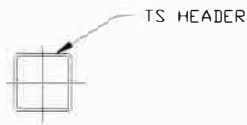
DWG. NO.: SK-3

JOB NO.: 17171S/18253S/
20376S/21118S

REV.: 3

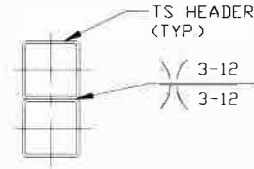
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SIDE WALL HEADER OPTIONS



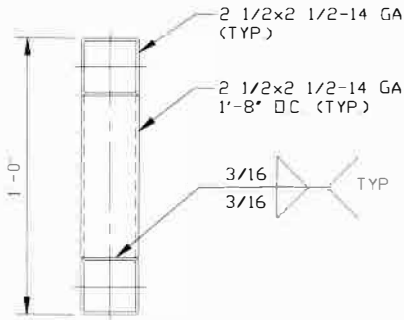
**HEADER DETAIL FOR OPENINGS
 $\leq 7'-0"$**

SCALE: NTS



**HEADER DETAIL FOR OPENINGS
 $7'-0" < \text{LENGTH} \leq 12'-0"$**

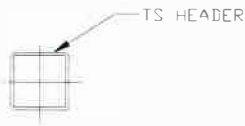
SCALE: NTS



**HEADER DETAIL FOR
 OPENINGS $12'-0" < \text{LENGTH} \leq 20'-0"$**

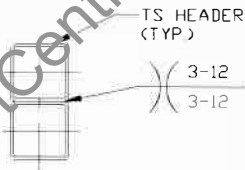
SCALE: NTS

END WALL HEADER OPTIONS



**HEADER DETAIL FOR OPENINGS
 $\leq 12'-0"$**

SCALE: NTS



**HEADER DETAIL FOR OPENINGS
 $12'-0" < \text{LENGTH} \leq 20'-0"$**

SCALE: NTS

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SHT. 21

SCALE: NTS

DWG. NO: SK-3

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