

STRUCTURAL DESIGN STANDARD PACKAGE ENCLOSED BUILDING

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

23 June 2020 Revision 0 M&A Project No. 20126S

Prepared for:

TNT Carports, Inc. 170 Holly Springs Road Mount Airy, NC 27030

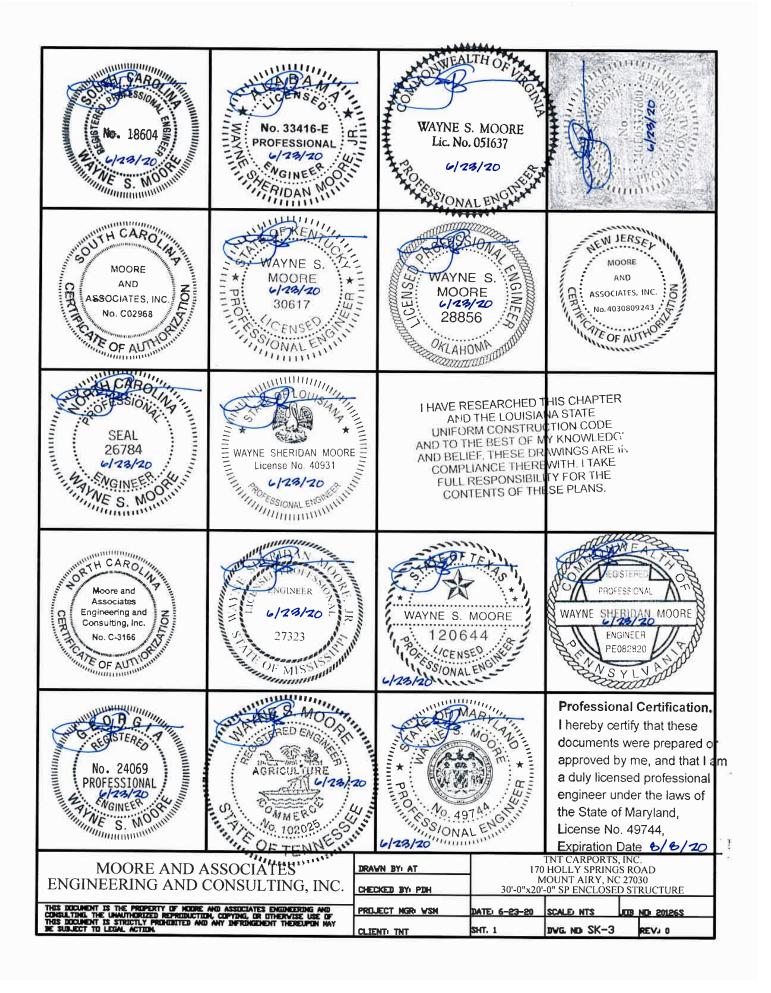
Prepared by:

Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

401 South Main Street, Suite 200 Mount Airy, NC 27030





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WAYNE S. MOORE STRUCTURAL No. 52896					
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INSTALLATION NOTES AND SPECIFICATIONS

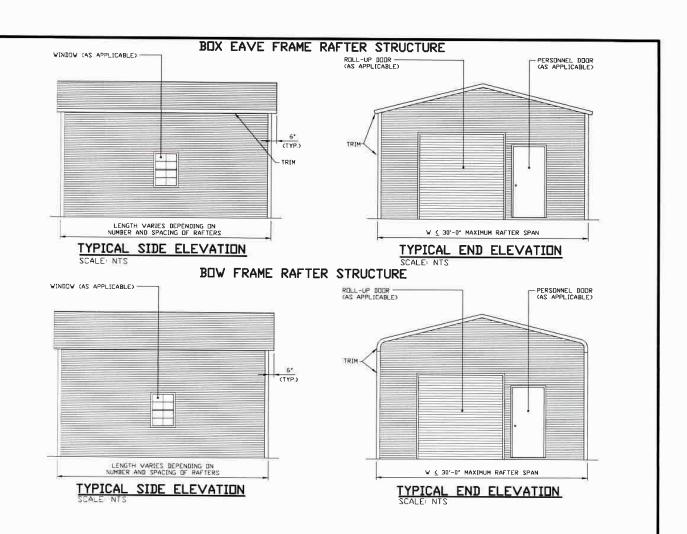
- 1. DESIGN IS FOR MAXIMUM 30'-0' WIDE x 20'-0' EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE (NCBC), 2018 IBC, 2015 IBC, 2012 IBC, 2009 IBC, AND 2006 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS: A) DEAD LOAD = 1.5 PSF B) IIVF I HAD = 12 PSF
 - C) GROUND SNOW LOAD = 35 PSF (UNBALANCED SNOW LOAD DUE TO DRIFTING HAS NOT BEEN EVALUATED).
- 4. ULTIMATE WIND SPEED 105 TO 145 MPH (NOMINAL WIND SPEED 81 TO 112 MPH); MAXIMUM RAFTER/POST AND END COLUMN SPACING = 5.0 FEET.
- 5. END WALL COLUMNS (POST) ARE EQUIVALENT IN SIZE AND SPACING TO SIDE WALL POSTS (UNLESS NOTED OTHERWISE).
- 6. RISK CATEGORY I.
- 7 WIND EXPOSURE CATEGORY B.
- 8. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2*x2 1/2*-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE). WHERE TS 2 1/2* x 2 1/2* 14 GAUGE IS SPECIFIED, TS 2 1/4* x 2 1/4* 12 GAUGE MAY BE USED AS AN OPTION.
- 9. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10° D.C. (MAX.)
- 10. FASTENERS CONSIST OF #12-14×3/4' 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. ROOFING WITH SLOPES LESS THAN 3:12 MUST BE LAP SEALANT.
- 11 ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES.
- 12. GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG AND MAY ONLY BE USED IN SUITABLE SOILS. HELIX ANCHORS, SEE DETAIL 2B, MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
- 13. WIND FORCES GOVERN OVER SEISMIC FORCES, SEISMIC PARAMETERS ANALYZED ARE: SDIL SITE CLASS = D RISK CATEGORY I

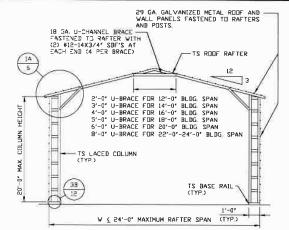
 I_E = 1.0 V= C_S W R= 3₁25 PEC.5 = 202

S_{DI}= 1.258

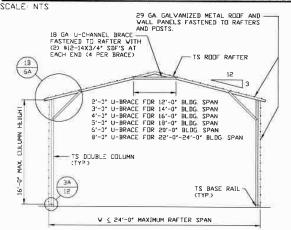
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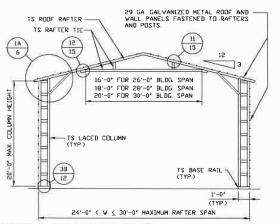
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DRAWN BY: AT	170	TNT CARPORTS, INC. 170 HOLLY SPRINGS ROAD				
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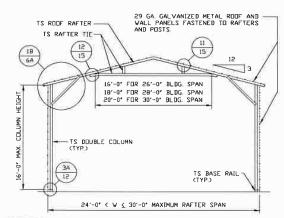
TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

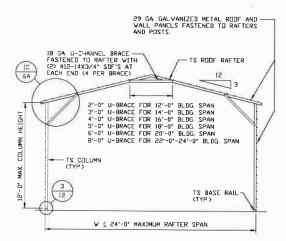


TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

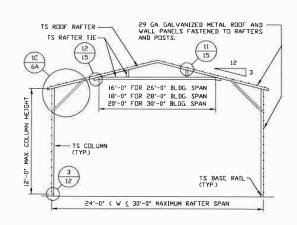
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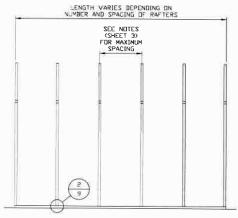
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TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

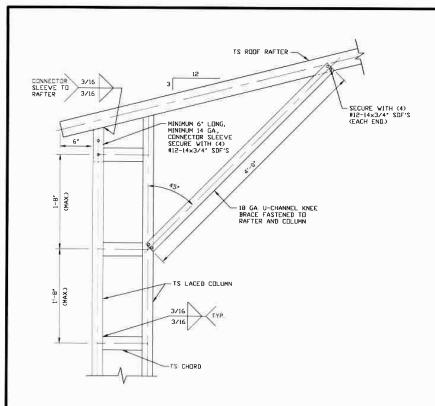


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

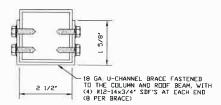
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•8	CHECKED BY: PDH PROJECT MGR: VSM		MOUNT AIRY, NC 27030 30'-0"x20'-0" SP ENCLOSED STRUCTURE DATE: 6-23-20 SCALE: NTS DIB ND: 20126S				
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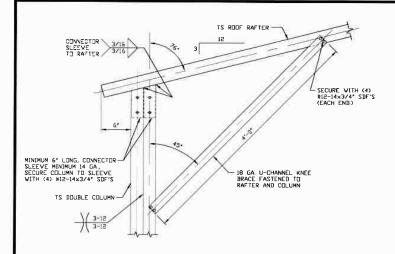


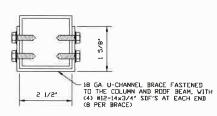
BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 16'-0' < TO < 20'-0'
SCALE NTS



BRACE SECTION SCALE: NTS

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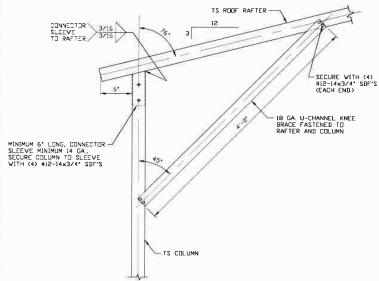




BRACE SECTION SCALE: NTS

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0' < TO < 16'-0'

SCALE NTS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 12'-0'

SCALE NTS

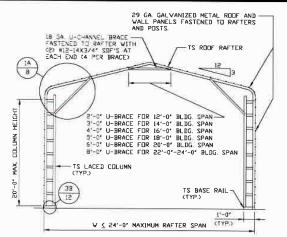
1C

NOTE: 2'-0" KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0".

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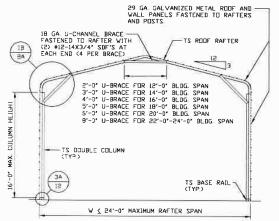
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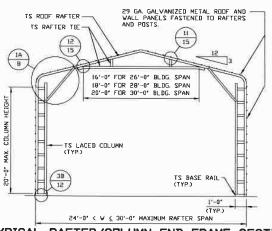
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



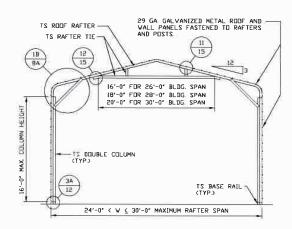
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

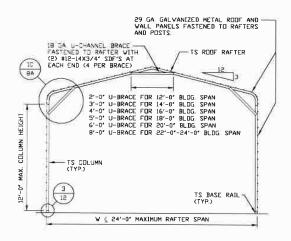
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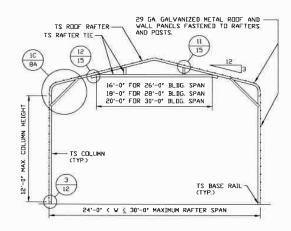


TYPICAL RAFTER/COLUMN END FRAME SECTION

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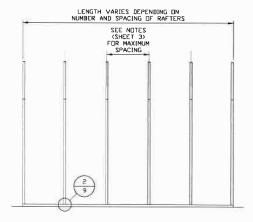




TYPICAL RAFTER/COLUMN END FRAME SECTION

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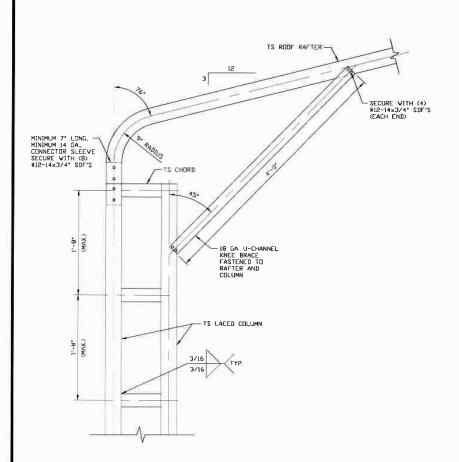
TYPICAL RAFTER/COLUMN END FRAME SECTION



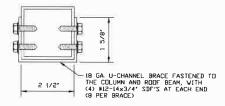
TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

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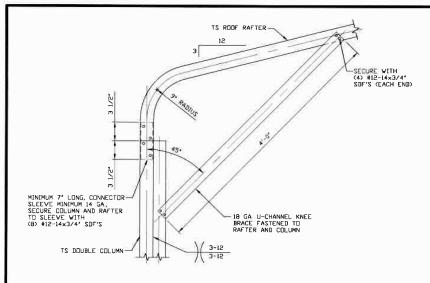


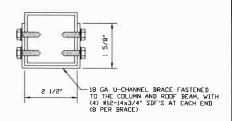
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0' < TO \(\) 20'-0'



BRACE SECTION SCALE: NTS

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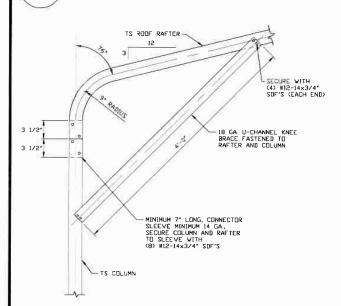




BRACE SECTION

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < T□ < 16'-0" 1B

SCALE NTS



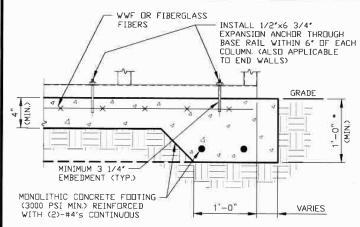
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR

1C SCALE NTS

NOTE: 2'-0' KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0'.

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BASE RAIL ANCHORAGE OPTIONS





BASE RAIL ANCHURAGE

* COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH.

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF.

CONCRETE

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:

97 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:

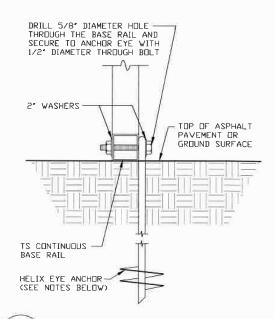
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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, CDARSE 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 LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM 50' EMBEDMENT.
- 5. FOR VERY LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8° HELICES WITH MINIMUM 60° EMBEDMENT.



2B

GROUND BASE HELIX ANCHORAGE

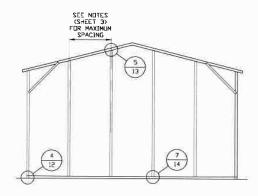
(CAN BE USED FOR ASPHALT)

* COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH.

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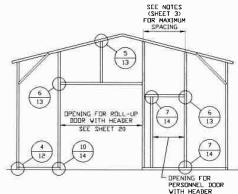
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CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" SP ENCLOSED STRUCTURE						
DRAWN BY: AT	170 HOLLY SPRINGS ROAD						

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



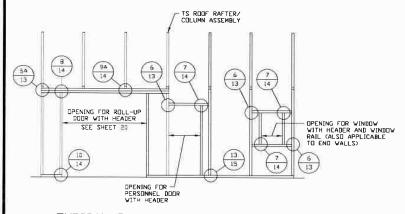
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

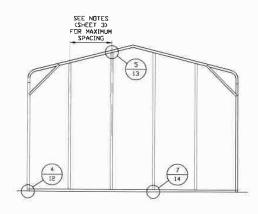


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

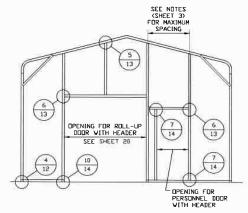
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BOW RAFTER END WALL AND SIDE WALL OPENINGS



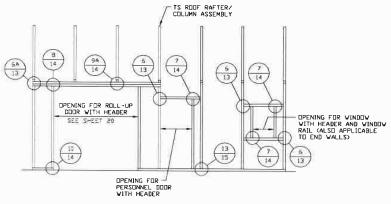
TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

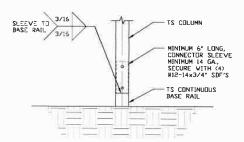
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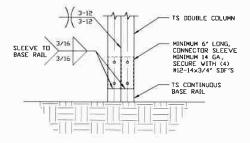


TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

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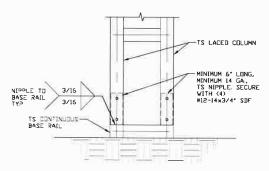
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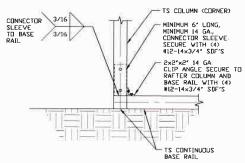




RAFTER COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS

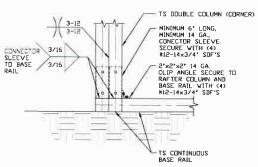






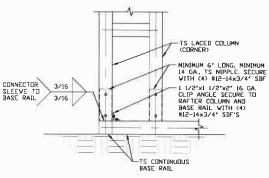
RAFTER COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS

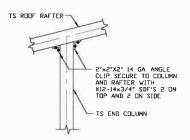






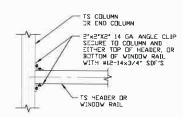
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4B COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

5 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



3/16

3/16

TS ROOF RAFTER

7' TS COLUMN

MINIMUM 6' LONG MINIMUM
14 GA CONNECTOR SLEEVE
SECURE VITH (4)
BI2-14×3/4' SDF'S

TS COLUMN

TS COLUMN

TS DOUBLE HEADER OR
VINDOW RAIL

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

6

COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL SCALE: NTS

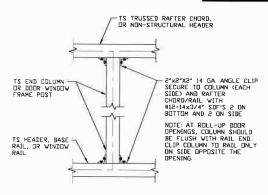
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ENGINEERING AND CONSULTING, INC.

TNT CARPORTS, INC.
170 HOLLY SPRINGS ROAD
MOUNT AIRY, NC 27030
30'-0" x20'-0" SP ENCLOSED STRUCTURE

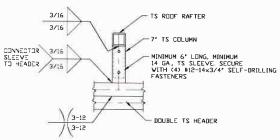
PROJECT MGR VSM DATE 6-23-20 SCALE NTS DB ND 20126S

CLIENT: TNT SHT. 13 DVG. ND SK-3 REV. 0

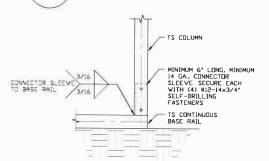
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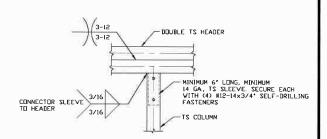




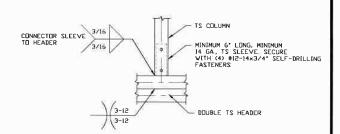
9A COLUMN/DOUBLE HEADER CONNECTION DETAIL SCALE: NTS





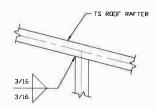


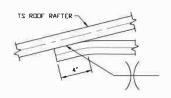
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL SCALE: NTS



9B COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE NTS

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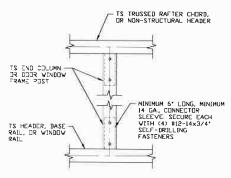




RAFTER TO CHORD CONNECTION DETAIL SCALE: NTS

12 COLLAR TIE CONNECTION DETAIL

SCALE: NTS



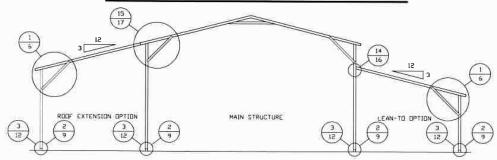
COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL SCALE: NTS

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ENGINEERING AND CONSULTING, INC.
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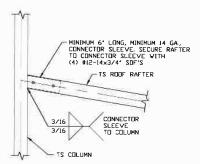
DRAVN BY: AT	— 170 N	TNT CARPORTS, INC. 170 HOLLY SPRINGS ROAD MOUNT AIRY, NC 27030 30'-0"x20'-0" SP ENCLOSED STRUCTURE				
PROJECT MGR: VSM	DATE: 6-23-20		JUB NO 20126S			

BOX EAVE RAFTER LEAN-TO OPTIONS

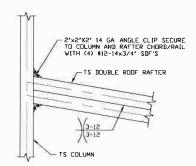


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS & 12'-0'



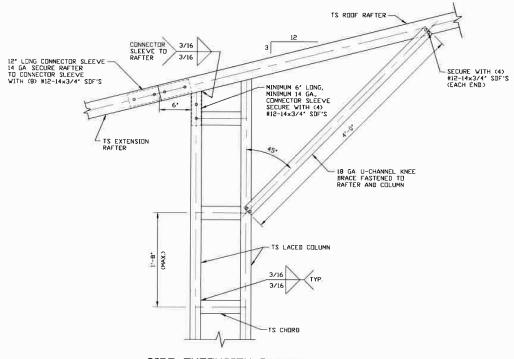
LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS 12'-0' < TO \(\lefta \) 16'-0'

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П		I M	IOUNT AIRY, NC	270	30		
	CHECKED BY: PDH		30'-0"x20'-0" SP ENCLOSED STRUCTURE				
	PROJECT MGR VSM	DATE: 6-23-20	SCALE: NTS	.ma	ND 20126S		
	CLIENT: TNT	SHT. 16	DAC NO 2K-3		REV. 0		

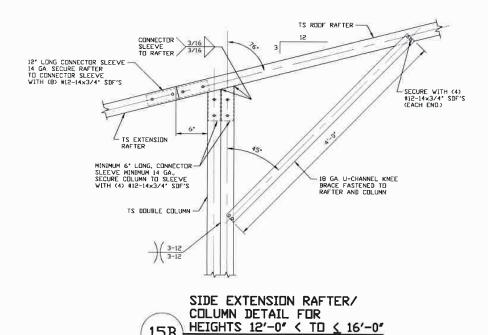
BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS ≤ 12'-0"

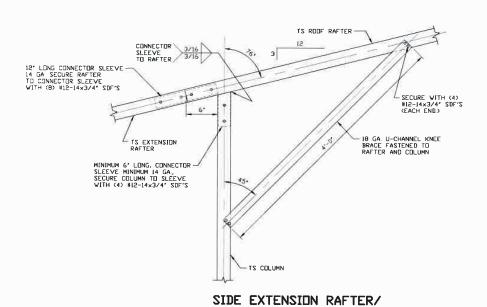


SIDE EXTENSION RAFTER/COLUMN DETAIL FOR
HEIGHTS 16'-0' < TO < 20'-0'
SCALE: NTS

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BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS ≤ 12'-0"





SCALE: NTS

15B

15C

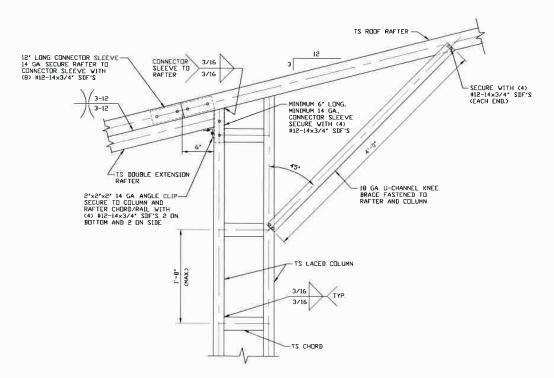
SCALE: NTS

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NOTE: 2'-0' KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0"

COLUMN DETAIL FOR HEIGHTS ≤ 12'-0'

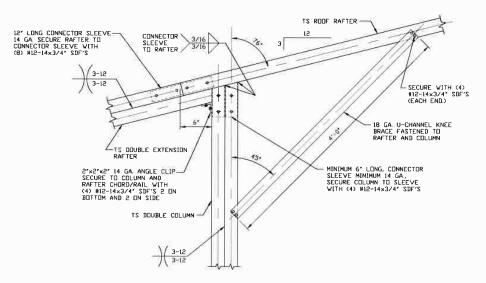
BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"



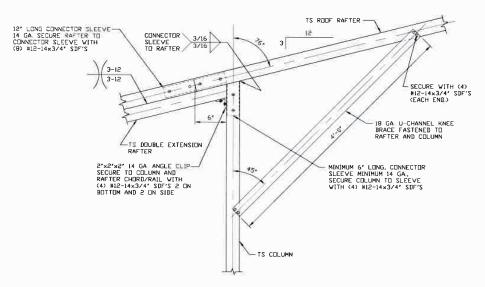
SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 16'-0' < TO < 20'-0'

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BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"



SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 12'-0' < TO \(\) 16'-0'



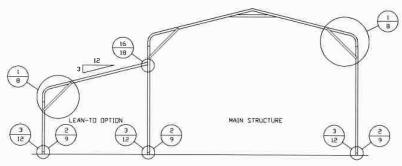
SIDE EXTENSION RAFTER/COLUMN DETAIL FOR HEIGHTS & 12'-0'

SCALE: NTS

NOTE: 2'-0' KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0'.

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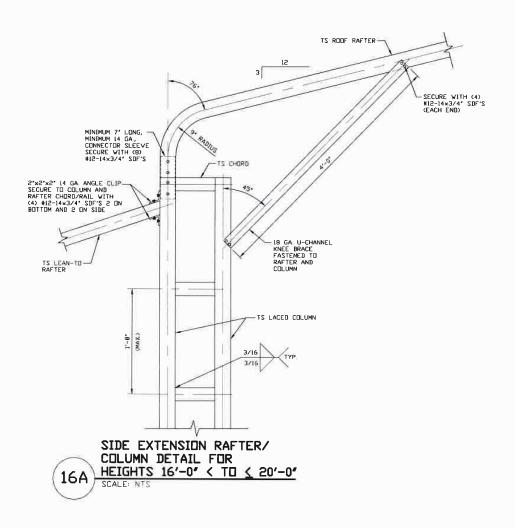
BOW EAVE RAFTER LEAN-TO OPTION



 $\frac{\text{TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION}}{\text{SCALE: NTS}}$

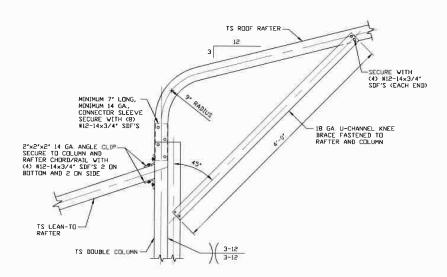
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BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS ≤ 12'-0"

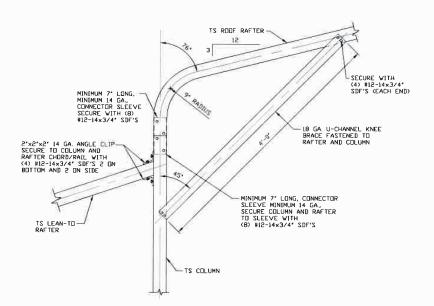


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BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS ≤ 12'-0"



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



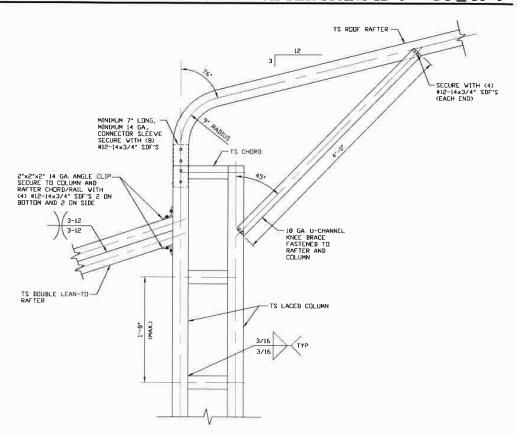
SIDE EXTENSION RAFTER/COLUMN DETAIL FOR HEIGHTS & 12'-0'
SCALE: NTS
NOTE: 2'-0' KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0'.

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DRAWN BY: AT	17	170 HOLLY SPRINGS ROAD					

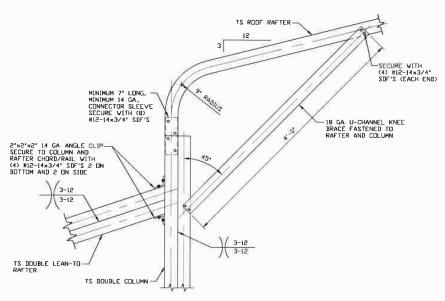
BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"



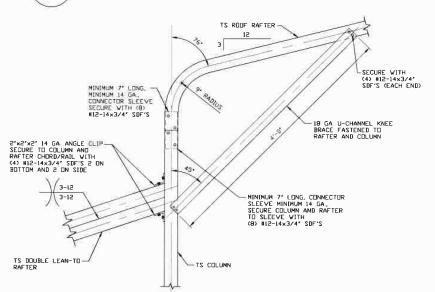
SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 16'-0" < TO \(\) 20'-0"

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BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"



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



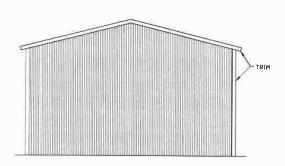
SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS & 12'-0'

SCALE: NTS

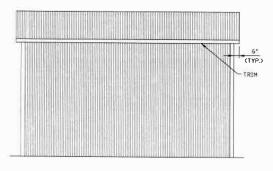
NOTE: 2'-0" KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0".

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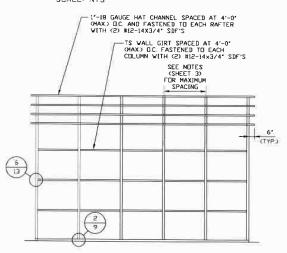
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



TYPICAL END ELEVATION VERTICAL ROOF/SIDING



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING SCALE: NTS

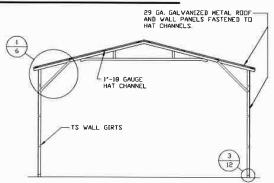


TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

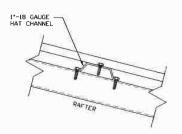
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TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

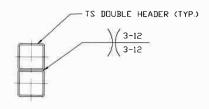


PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

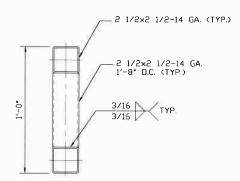
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PROJECT MGR VSM	DATE: 6-23-20	SCALE: NTS	JOB NO 20126S	
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DRAVN BY AT		TNT CARPORTS, INC. 170 HOLLY SPRINGS ROAD		

SIDE WALL HEADER OPTIONS



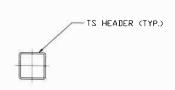
HEADER DETAIL FOR LENGTHS ≤ 12'-0"

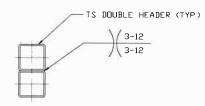
SCALE: NTS



HEADER DETAIL FOR LENGTHS 12'-0" < TO < 14'-0"

END WALL HEADER OPTION





HEADER DETAIL FOR LENGTHS & 12'-0'

HEADER DETAIL FOR LENGTHS 12'-0" < TO ≤ 14'-0" SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

CL TENT, THE	SHT. 20	DVG ND SK-3		REV. 0		
PROJECT MGR: VSM	DATE: 6-23-20	SCALE: NTS	LOB	ND 20126S		
CHECKED BY: PDH		MOUNT AIRY, NC 27030 30'-0"x20'-0" SP ENCLOSED STRUCTURE				
DRAWN BY: AT	17	TNT CARPORTS, INC. 170 HOLLY SPRINGS ROAD				

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