



## STRUCTURAL DESIGN

# **ENCLOSED BUILDING**

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

12 March 2020 Revision 0 M&A Project No. 19364S

Prepared for:

Carports Outlet, LLC 123 Sunset Circle Moultrie, GA 31768

Prepared by:

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MOORE AND A ENGINEERING AND C	SSOCIATES CONSULTING, INC.		/N BY: JG CKED BY: PDH		ARPORTS OUTLET, 123 SUNSET CIRCI MOULTRIE, GA 317 )'-0" ENCLOSED ST	Æ
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MOORE AND ASSOCIATES	DRAWN BYI JG		CARPORTS OUTLET, LLC 123 SUNSET CIRCLE MOULTRIE, GA 31768 30'-0"x20'-0" ENCLOSED STRUCTURE				
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"x					
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### INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2018 NORTH CAROLINA BUILDING CODE, 2018 INTERNATIONAL BUILDING CODE (IBC), 2015 IBC, 2012 IBC AND 2009 IBC
- 3 DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD

= 1.5 PSF

B) LIVE LOAD

- = 12 PSF
- C) GROUND SNOW LOAD
- = 35 PSF WITH WELDED RAFTER TIE (W € 30'-0")

= 30 PSF WITH U-CHANNEL PEAK BRACE (W & 24'-0")

NOTE: DIFFERENTIAL LOADING DUE TO SNOW DRIFTING NOT ANALYZED.

- 4. 3-SECOND GUST LOW ULTIMATE WIND SPEED (LW) (VULT) = 105 TO 145 MPH (NOMINAL WIND SPEED = 81 TO 112 MPH).
- 5 3-SECOND GUST HIGH ULTIMATE WIND SPEED (HW) (VULT) = 146 TO 170 MPH (NOMINAL WIND SPEED = 113 TO 132 MPH)
- 6. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET FOR LOW WIND AND 4.0 FEET FOR HIGH WIND (UNLESS NOTED OTHERWISE).
- 7. END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL COLUMNS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE)
- 8. RISK CATEGORY I.
- 9. WIND EXPOSURE CATEGORY B.
- 10 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" 14 GAUGE TUBE STEEL (TS).
- 11 AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10° D.C. (MAX.) FOR LOW WIND AND 6' D.C. (MAX) FOR HIGH WIND
- 12 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
- 13 ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6° DF EACH COLUMN (LEG).
- 14. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT × 36' LONG AND MAY BE USED IN SUITABLE SOIL CONDITIONS.
  SOIL NAILS MAY ONLY BE USED FOR WIND SPEEDS & 145 MPH. OPTIONAL ANCHORAGE MINIMUM MAY BE USED IN SUITABLE SOILS AND MUST BE
  USED IN UNSUITABLE SOILS AND MUST BE USED FOR WIND SPEEDS > 145 MPH. COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING
  OFFICIAL REGARDING FROST DEPTH (LENGTH) OF ANCHORAGE.
- 15. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE: SOIL SITE CLASS = D RISK CATEGORY I

R= 3.25

g eco.s =202

 $I_E = 10$ V=  $C_SW$ 

Spi= 1.258 g

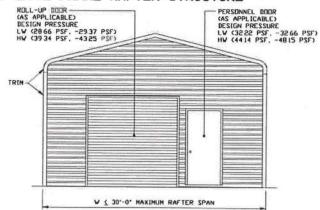


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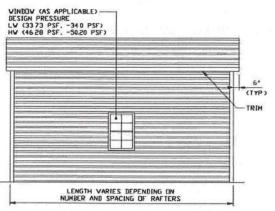
# BOX EAVE FRAME RAFTER STRUCTURE ROLL-UP DOOR— (AS APPLICABLE) DESIGN PRESSURE LV (2866 PSF, -2937 PSF) HV (3934 PSF, -4325 PSF) PERSONNEL DOOR (AS APPLICABLE) DESIGN PRESSURE LV (3222 PSF. -3266 PSF) HV (4414 PSF, -4815 PSF) (TYP.)

### V € 30'-0" MAXIMUM RAFTER SPAN TYPICAL END ELEVATION SCALE: NTS

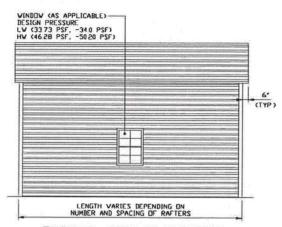
### BOW EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION
SCALE: NTS



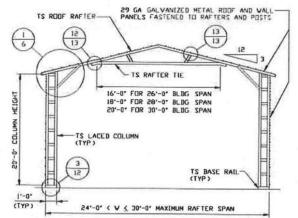
### TYPICAL SIDE ELEVATION SCALE: NTS



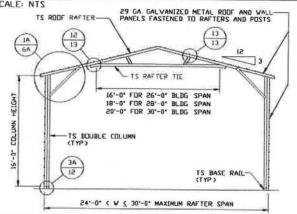
TYPICAL SIDE ELEVATION SCALE: NTS



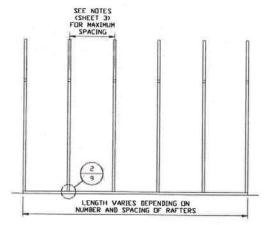
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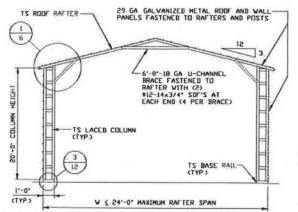
### TYPICAL RAFTER/COLUMN END FRAME SECTION



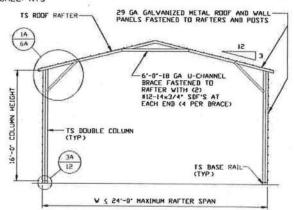
## TYPICAL RAFTER/COLUMN END FRAME SECTION



# TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS



# TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



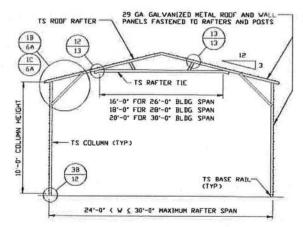
# TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



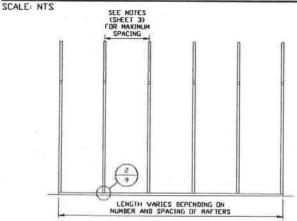
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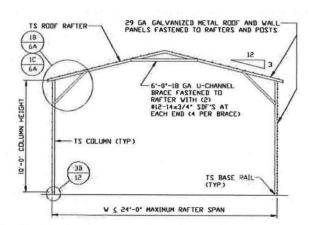
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### TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS



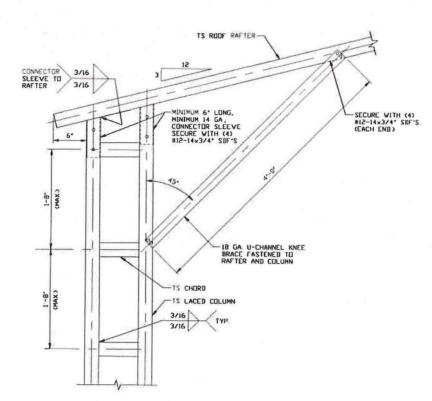
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

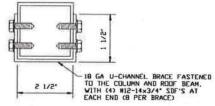


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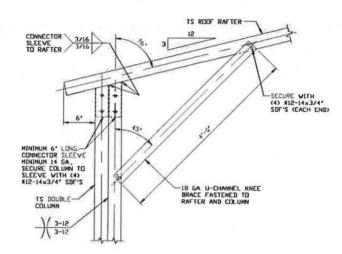


BRACE SECTION
SCALE: NTS

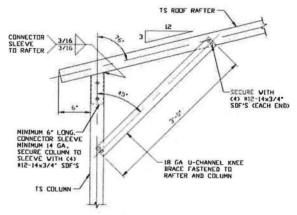
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0' < TO < 20'-0"



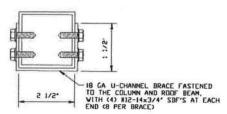
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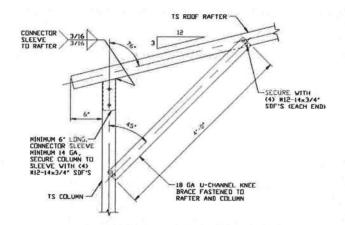
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO < 16'-0"



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 8'-0"



BRACE SECTION
SCALE: NTS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL

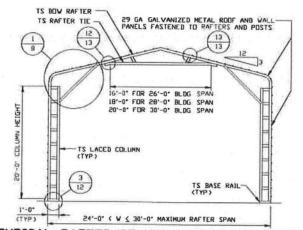
FOR HEIGHTS 8'-0' < TO \( \lefta \) 10'-0'



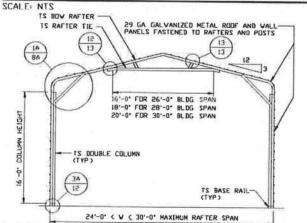
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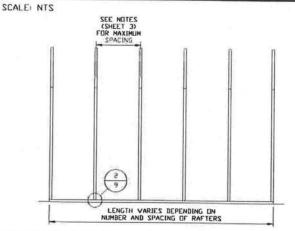
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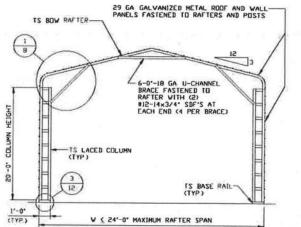
### TYPICAL RAFTER/COLUMN END FRAME SECTION



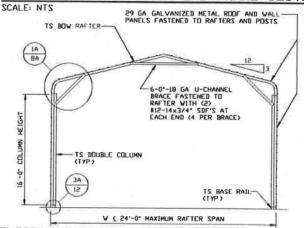
### TYPICAL RAFTER/COLUMN END FRAME SECTION



# TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS



## TYPICAL RAFTER/COLUMN END FRAME SECTION



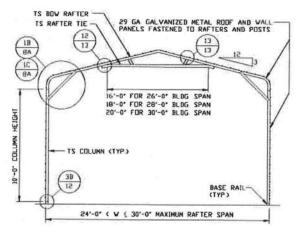
TYPICAL RAFTER/COLUMN END FRAME SECTION



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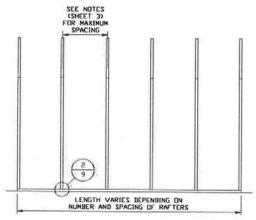
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# TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

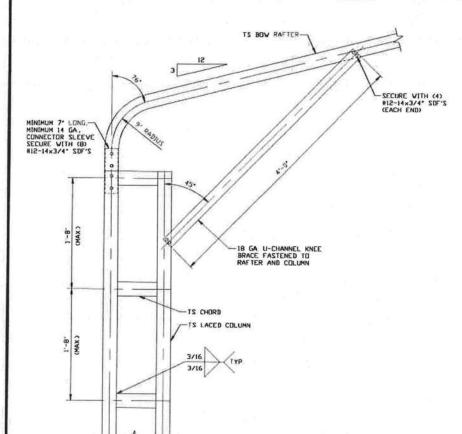
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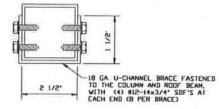


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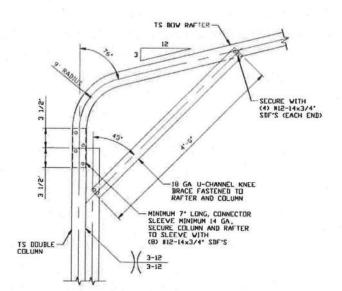


BRACE SECTION
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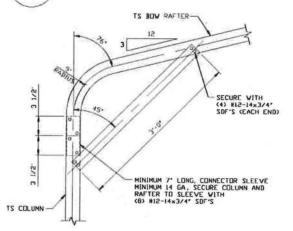
BOW EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 16'-0' < TO \( \) 20'-0'



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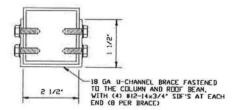


BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0' < TO < 16'-0'

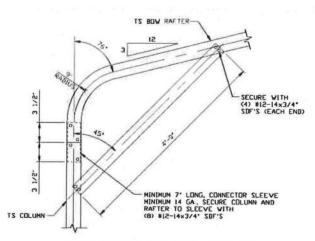


BOW EAVE RAFTER COLUMN CONNECTION DETAIL

FOR HEIGHTS & 8'-0"



BRACE SECTION
SCALE: NTS



BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 8'-0" < TO < 10'-0"

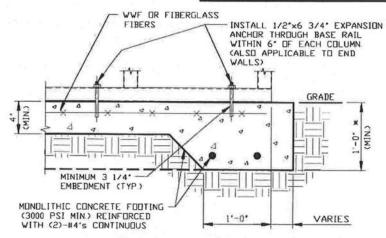


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DRAWN BY: JG	LARPORTS OUTLET, LLC 123 SUNSET CIRCLE				

### BASE RAIL ANCHORAGE OPTIONS



### CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4° ★ 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:
3' IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND I 1/2' ELSEWHERE.

### REINFORCING STEEL

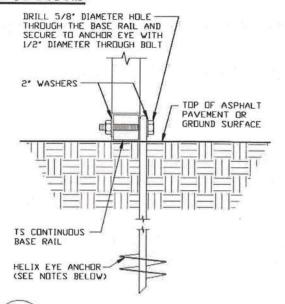
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

### REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

- 1. REINFORCEMENT IS BENT COLD
- THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS
  REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT
- BE FIELD BENT

### HELIX ANCHOR NOTES:

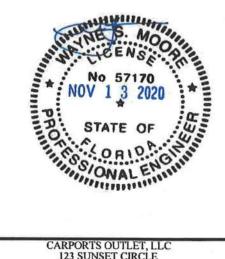
- FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT
- 2 FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
- 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
- FOR LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM
- FOR VERY LOSE 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) ★ COURDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED ANCHORAGE DEPTH.

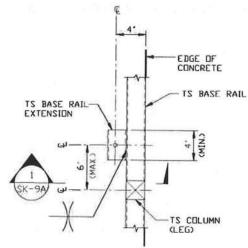


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ENGINEERING AND CONSULTING,	NC.

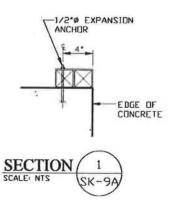
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CHECKED BY: PDH	30'-0"x	MOULTRIE, G 20'-0" ENCLOSE						
PROJECT MGR: WSM	DATE: 3-12-20	SCALE: NTS	JOB	ND: 19364S				
CLIENT: CARPORTS DUTLET, LLC	SHT. 9	DVG. ND SK-		REV. 0				

## ADDITIONAL BASE RAIL ANCHORAGE OPTION



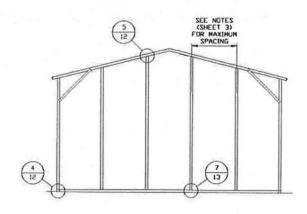
TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE





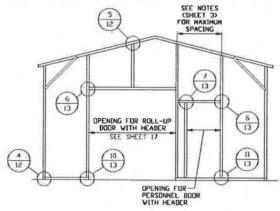
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG		CARPORTS OUTLET, LLC 123 SUNSET CIRCLE MOULTRIE, GA 31768			
, The comboditio, inc.	CHECKED BY: PDH	30'-0"X	20'-0" ENCLOSED	STRUCTURE		
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## **BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS**



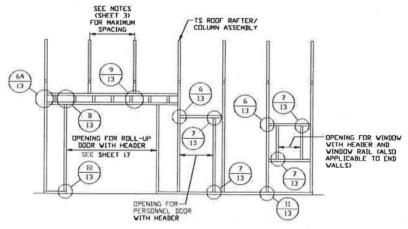
# TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



# TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



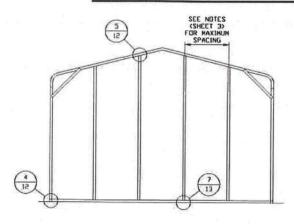
# TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



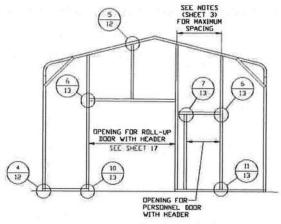
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## **BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS**



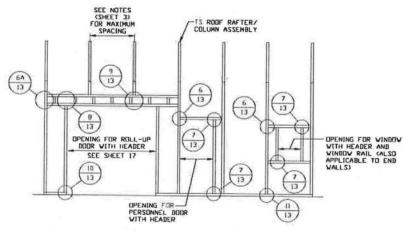
# TYPICAL BOW EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



# TYPICAL BOW EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

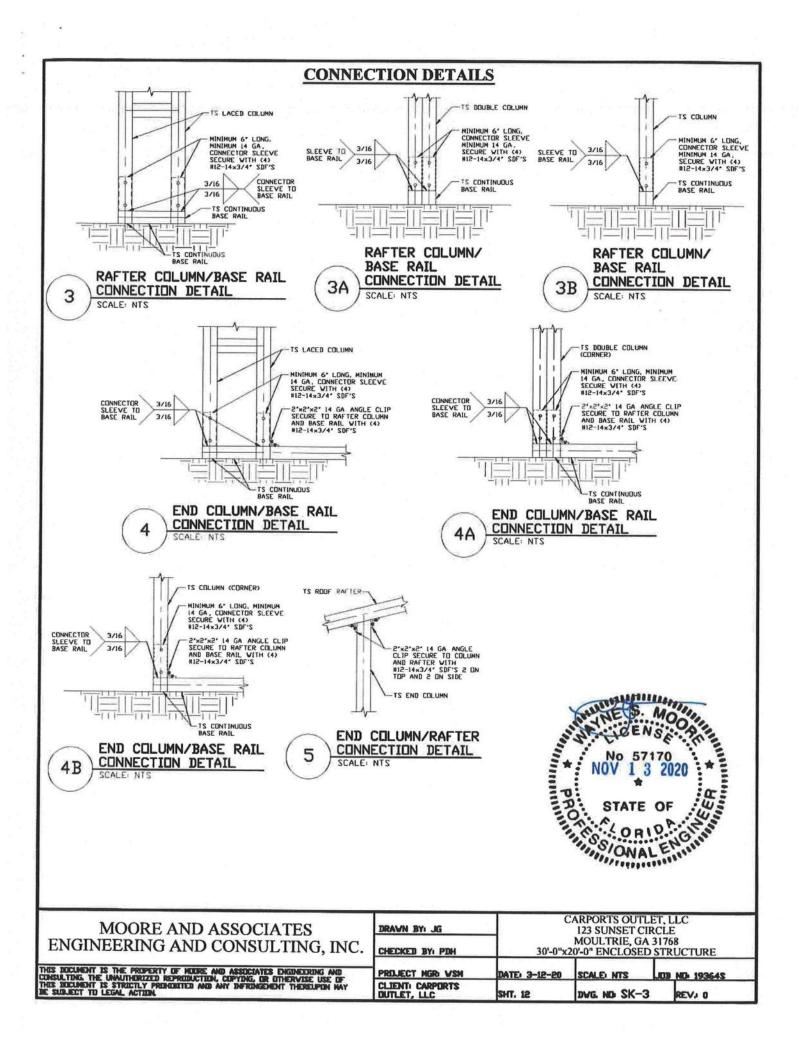


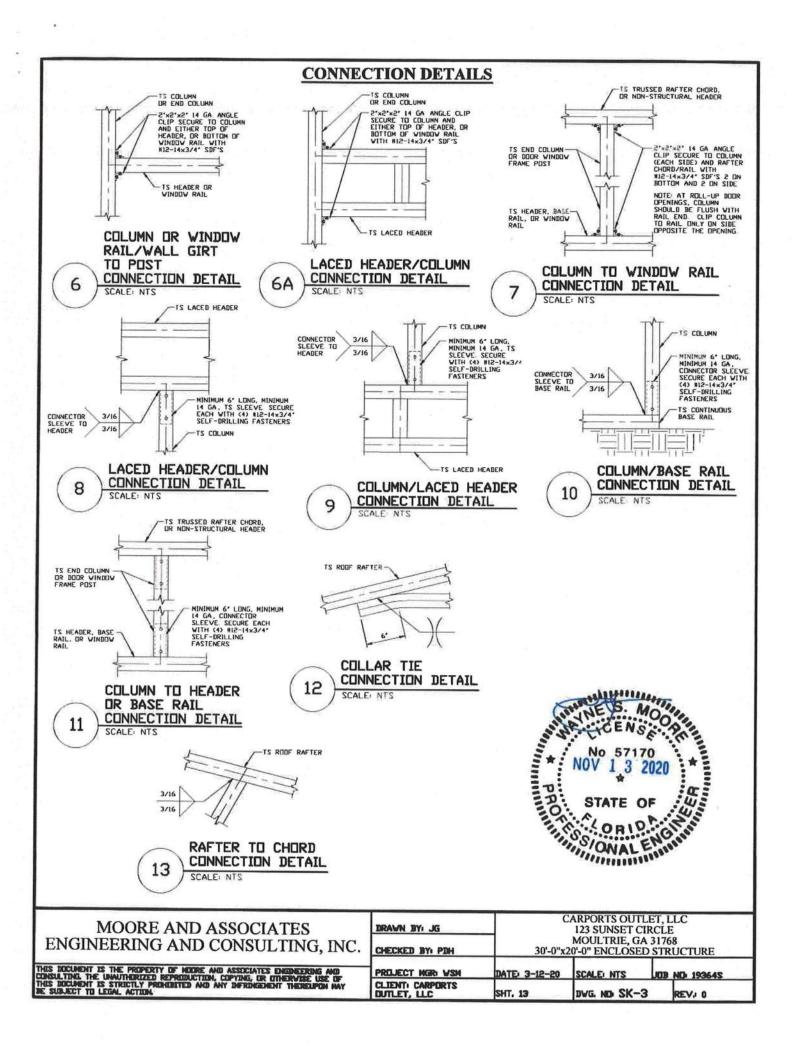
# TYPICAL BOW EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

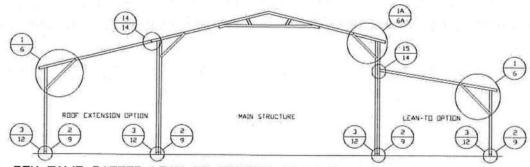


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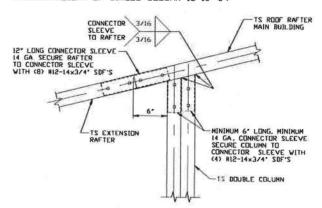


### **BOX EAVE RAFTER LEAN-TO OPTIONS**

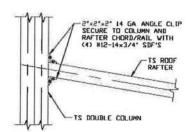


## TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

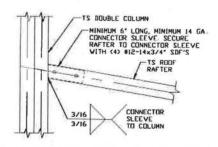
MAXIMUM HEIGHT OF SINGLE RAFTER ROOF EXTENSION AND LEAN-TO IS 12'-0'.
MAXIMUM HEIGHT OF SINGLE COLUMN IS 10'-0'.



SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS < 12'-0' 14 SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS ≤ 12'-0" 15 SCALE: NTS



OPTIONAL LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS & 12'-0" 15A SCALE: NTS



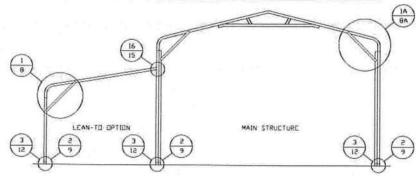
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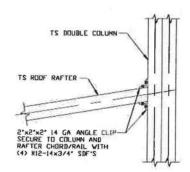
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	MOULTRIE, GA 31768						
DRAWN BY: JG	_ `	123 SUNSET (	CIRCLE	3			

## **BOW EAVE RAFTER LEAN-TO OPTIONS**



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

SCALE: NTS
MAXIMUM WIDTH OF SINGLE RAFTER ROOF EXTENSION AND LEAN-TO IS 12'-0'.
MAXIMUM HEIGHT OF SINGLE COLUMN IS 10'-0".



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

16

TS DOUBLE COLUMN

TS ROOF RAFTER

MINIMUM 6' LONG, MINIMUM

14 GA, CONNECTOR SLEEVE
SECURE RAFTER TO
CONNECTOR SLEEVE WITH

(4) #12-14x3/4' SDF'S

OPTIONAL LEAN-TO
RAFTER TO RAFTER
COLUMN CONNECTION

16A SPAN

DETAIL FOR RAFTER SPANS & 12'-0"

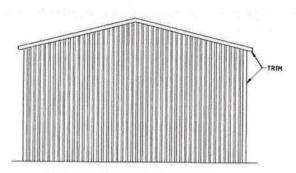


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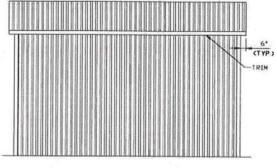
100	DRAWN BY: JG	123 SUNSET CIRCLE							
3	CHECKED BY: PBH	MOULTRIE, GA 31768 30'-0"x20'-0" ENCLOSED STRUCTURE							
2	PROJECT NGR: VSN	DATE: 3-12-20	SCALE: NTS	LOB	ND: 19364S				
	CLIENT: CARPORTS DUTLET, LLC	SHT. 15	DVG. ND SK-	3	REV. 0				

## **BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION**



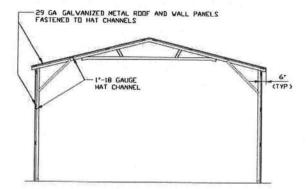
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



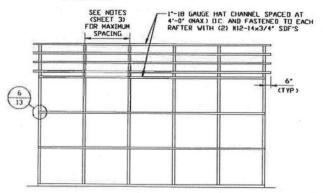
TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



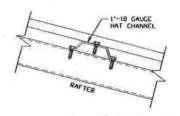
TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



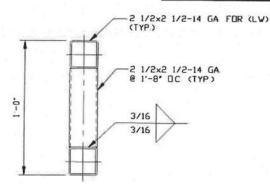
PANEL ATTACHMENT

CALTERNATE FOR VERTICAL ROOF AND WALL PANELS> SCALE: NTS



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## SIDE WALL HEADER OPTIONS

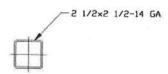


HEADER DETAIL FOR SPANS 12'-0" < TO \( \) 14'-0"

in (CTYP) (3-12) 3-12

HEADER DETAIL FOR SPANS & 12'-0"

## **END WALL HEADER OPTIONS**



HEADER DETAIL FOR SPANS & 14'-0'



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