

PILOT MOUNTAIN, NORTH CAROLINA

STRUCTURAL DESIGN ENCLOSED BUILDING

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

2 July 2020 Revision 2 M&A Project No. 18315S/19179S/20176S

Prepared for:

NC Carports and Garages, LLC 309 S. Depot Street Pilot Mountain, NC 27041

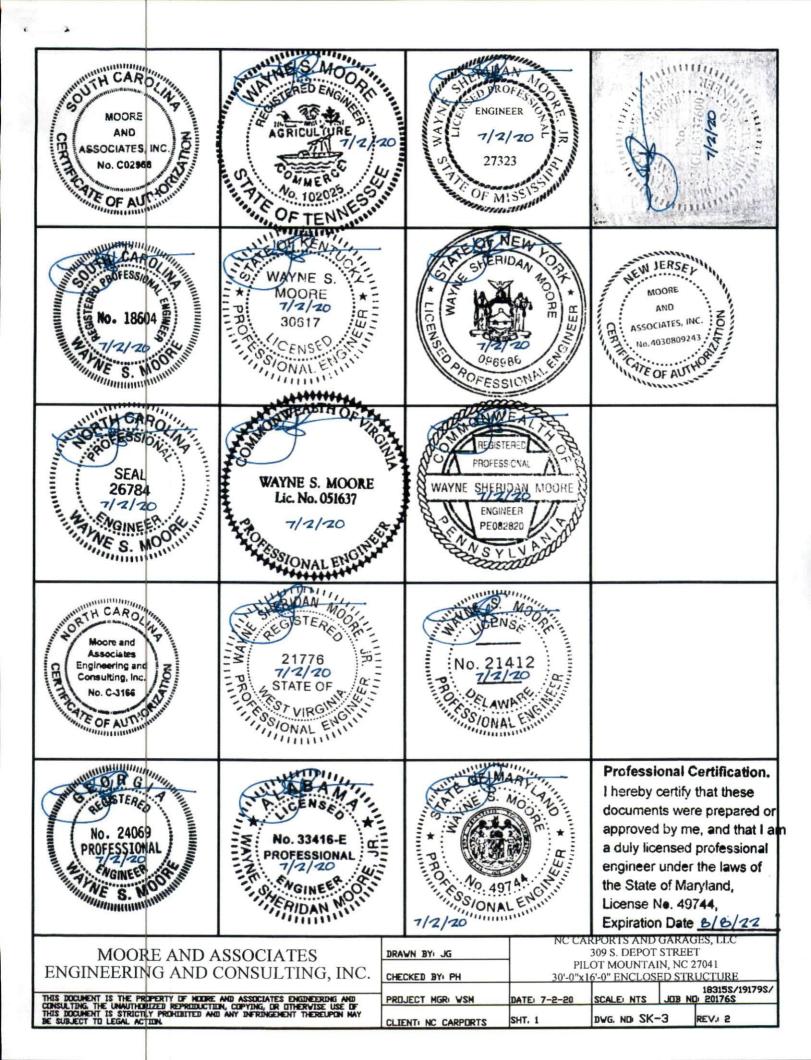
Prepared by:

Moore and Associates Engineering and Consulting, Inc.

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١	MOORE AND ASSOCIATES	DRAWN BY: JG		309 S. DEPOT		

INSTALLATION NOTES AND SPECIFICATIONS

- I. DESIGN IS FOR MAXIMUM 30'-0' WIDE x 16'-0' EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DIENE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, 2009 INTERNATIONAL BUILDING CODE (18C), 2012 IBC, 2015 IBC AND 2018 IBC
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD

= 1.5 PSF = 12 PSF

B) LIVE LOAD

C) GROUND SNOW LOAD

= 35 PSF

= 30 PSF (W < 24'-0' WITH U-CHANNEL COLLAR TIE)

UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED. NOTE:

- 4. 3-SECOND GUST ULTIMATE WIND SPEED (Vult) 105 TO 145 MPH (NOMINAL WIND SPEED 82 TO 112 MPH).
- 5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 50 FEET (UNLESS NOTED OTHERWISE).
- 6. SIDEWALL COLUMNS AND ENDWALL COLUMNS ARE SIMILAR IN SIZE, UNLESS NOTED OTHERWISE.
- 7. 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 (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 9 INCHES.
- 11. FASTENERS CONSIST OF #12-14x3/4* SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS.

 SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 16 FEET OR LESS, AND ROOF SLOPES OF 14* (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
- 12. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN.
- 13. STANDARD GROUND ANCHORS (SDIL NAILS) CONSIST OF #4 REBAR W/WELDED NUT 30' LONG, SDIL NAILS MAY BE USED FOR WIND SPEEDS \$ 145 MPH AND IN SUITABLE SDIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SDILS AND MUST BE USED FOR WIND SPEEDS > 145 MPH AND/OR IN SUITABLE SDILS AS NOTED.
- 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 1_E= 1.0

 $S_{Di} = 1.258$

V= CsW

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CHECKED BY: PH		OT MOUNTA 16'-0" ENCLOS	IN, NC 27041 SED STRUCTURE				
DRAWN BY: JG	NC CARPORTS AND GARAGES, LLC 309 S. DEPOT STREET						

SHT. 3A

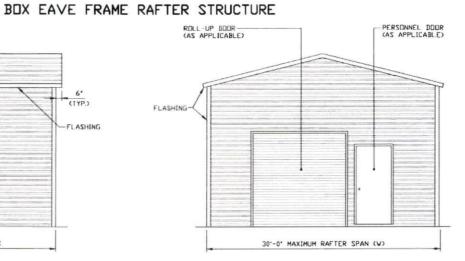
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DVG. NO SK-3

REV. 2

BOX EAVE FRAI

TYPICAL SIDE ELEVATION
SCALE: NTS



TYPICAL END ELEVATION
SCALE: NTS

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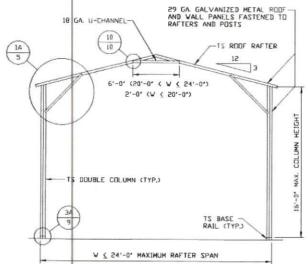
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PROJECT MGRI VS	M DATE: 7	-2-20 SCALE	NTS JUB	18315S/19179S/ ND: 20176S					
CHECKED BY: PH		30'-0"x16'-0" E							
DRAWN BYI JG		NC CARPORTS AND GARAGES, LLC 309 S. DEPOT STREET PILOT MOUNTAIN, NC 27041							

BOW EAVE FRAME RAFTER STRUCTURE ROLL-UP DOUR (AS APPLICABLE) FLASHING FLASHING ROLL-UP DOUR (AS APPLICABLE) PERSONNEL DOOR (AS APPLICABLE) FLASHING LENGTH VARIES DEPENDING DN NUMBER AND SPACING OF RAFTERS

TYPICAL SIDE ELEVATION
SCALE: NTS

TYPICAL END ELEVATION
SCALE: NTS

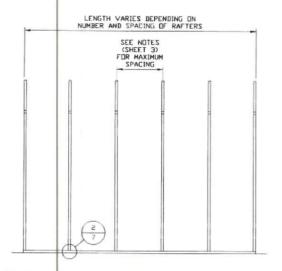
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MOORE	AND ASSOCIATES	DRAWN BY: JG		RPORTS AND 309 S. DEPOT	STREE	T



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

29 GA GALVANIZED METAL ROOF-AND WALL PANELS FASTENED TO RAFTERS AND POSTS IS ROOF RAFTER-11 10 1A 5 15]3 8'-0' (X 7 54'-0') 12 LIS COLLAR TIE CDLUMN HEIGHT MAX - IS DOUBLE COLUMN (TYP.) 16.-0. 3A 9 TS BASE -₩ 4 30'-0" MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

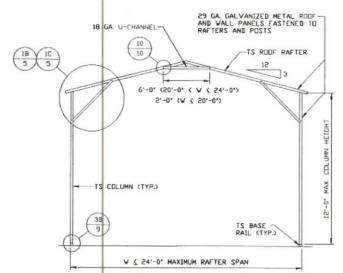


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

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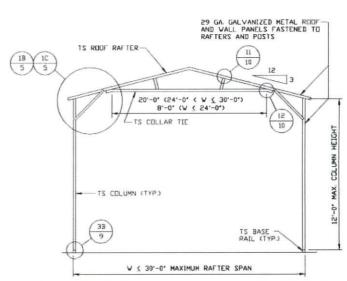
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TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS

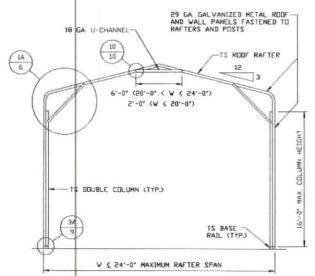
SEE NOTES
(SHEET 3)
FOR MAXIMUM
SPACING

TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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PROJECT MGR: WSM CLIENT: NC CARPORTS	DATE: 7-2-20 SHT. 4A	SCALE: NTS	JOB N	183155/191795/				



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

LENGTH VARIES DEPENDING UN
NUMBER AND SPACING OF RAFTERS

SEE NITES
(SHEET 3)
FOR MAXIMUM
SPACING

TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

29 GA. GALVANIZED METAL ROOF
AND VALL PANELS FASTENED TO
RAFTERS AND POSTS

TS ROOF RAFTER

11
10
12
20'-0' (24'-0' < V \(30'-0') \)
8'-0' (V \(24'-0') \)
TS COLLAR TIE

12
3
4
5
13
9
15 BASE
RAIL (TYP.)

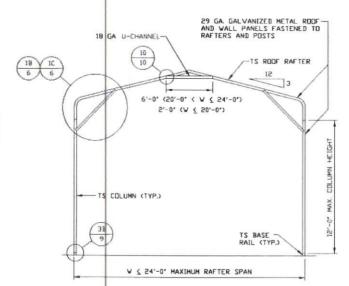
V \(30'-0' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

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TYPICAL RAFTER/COLUMN FRAME SECTION

TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

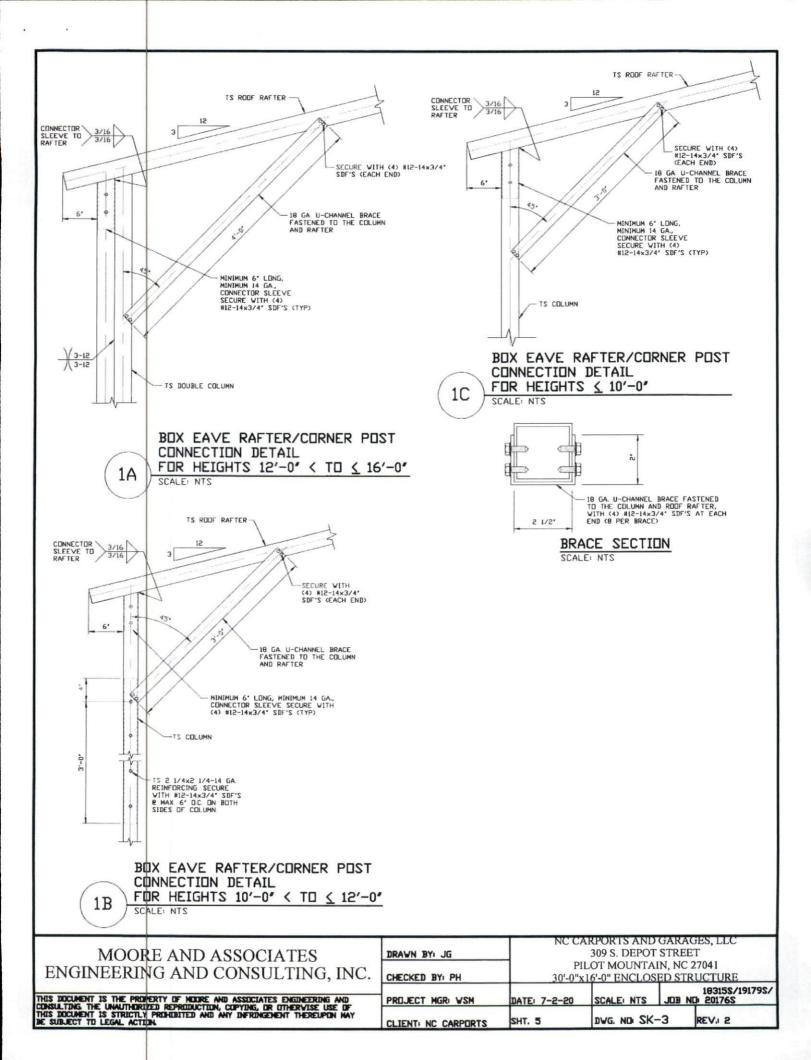
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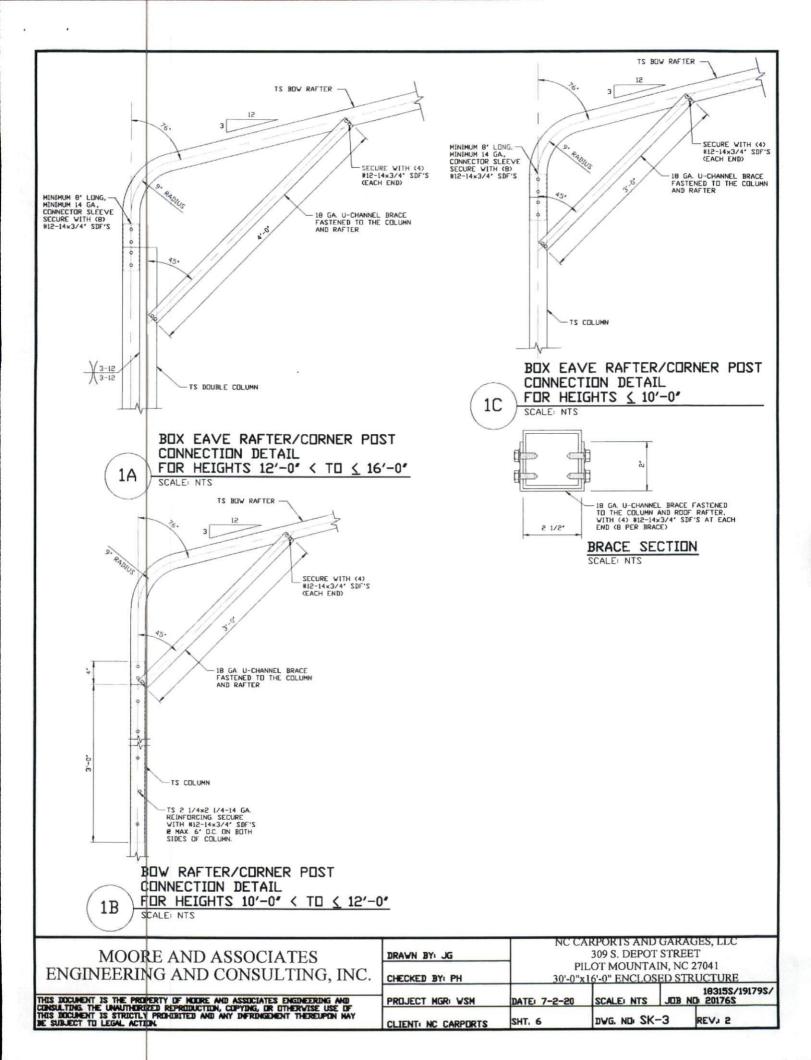
LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS

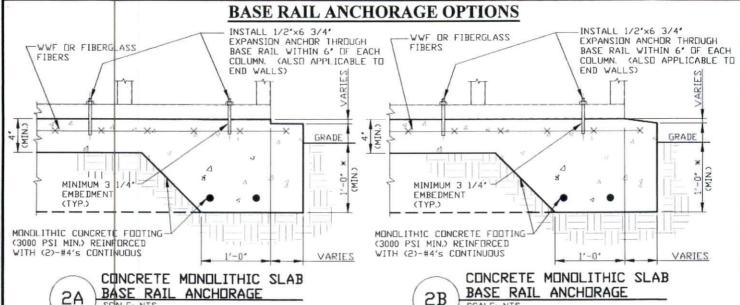
SEE NOTES
(SHEET 3)
FOR MAXIMUM
SPACING

TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
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GENERAL NOTES

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

MINIMUM ANCHOR EDGE DISTANCE IS 4".

* COORDINATE WITH LOCAL BUILDING CODE

AND/ORD REGARDING MINIMUM FROST DEPTH

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

COVER OVER REINFORCING STEEL:

SCALE: NTS

(LENGTH)

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

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED

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

HELIX ANCHOR NOTES

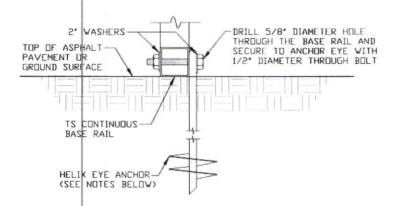
- 1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- 2. FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
- 3. FUR 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. FUR LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM 50' EMBEDMENT
- FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 8' HELICES WITH MINIMUM 60' EMBEDMENT. 5. FOR VERY LOSE

BASE RAIL ANCHORAGE

SCALE: NTS MINIMUM ANCHOR EDGE DISTANCE IS 4'. * COORDINATE WITH LOCAL BUILDING CODE AND/ORD REGARDING MINIMUM FROST DEPTH

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG CHECKED BY: PH	PIL	RPORTS AND 1 309 S. DEPOT OT MOUNTAI 6'-0" ENCLOSI	STREE N, NC 2	T 27041
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BASE RAIL ANCHORAGE OPTIONS

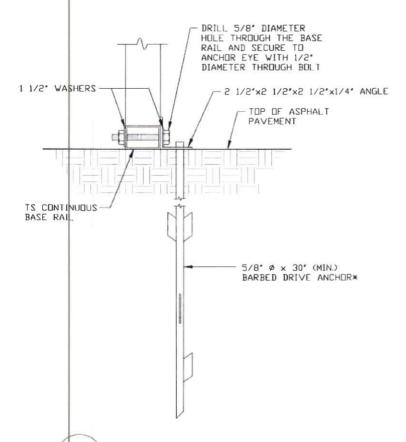


SC

GROUND BASE HELIX ANCHORAGE

SCALE: NTS (CAN BE USED FOR ASPHALT)

* COURDINATE WITH LOCAL BUILDING CODE AND/ORD REGARDING MINIMUM FROST DEPTH (LENGTH).



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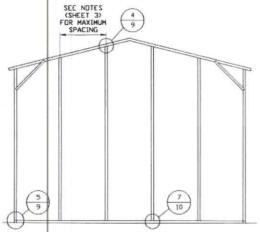
ASPHALT BASE ANCHORAGE

SCALE: NTS

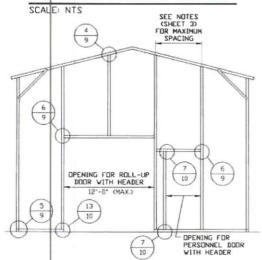
* COORDINATE WITH LOCAL BUILDING CODE
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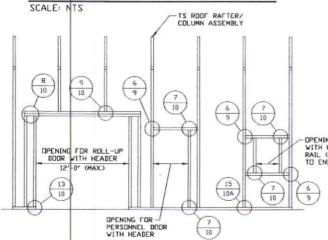
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION



OPENING FOR WINDOW WITH HEADER AND WINDOW RAIL (ALSO APPLICABLE TO END WALLS)

TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

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SEE NOTES (SHEET 3) FOR MAXIMUM SPACING

10

DPENING FOR PERSONNEL DOOR WITH HEADER

9

OPENING FOR ROLL-UP DOOR WITH HEADER

20'-0' (MAX.)

7

TYPICAL BOX EAVE RAFTER END

WALL OPENINGS FRAMING SECTION

10

10

14 10A

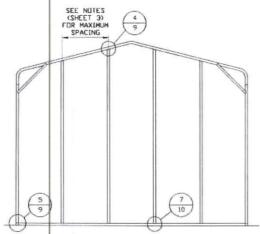
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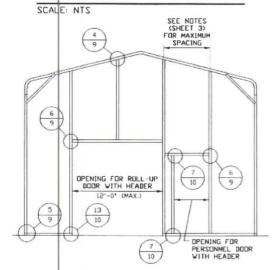
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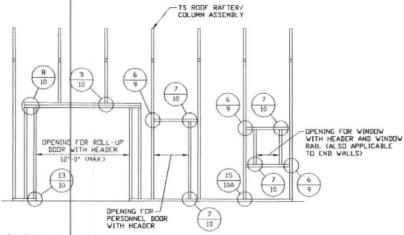
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION



TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION
SCALE: NTS

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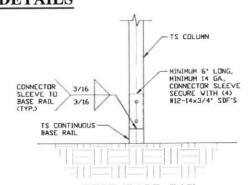
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DRAWN BY: JG 309 S. DEPOT STREET PILOT MOUNTAIN, NC 27041	

SEE NOTES (SHEET 3) FOR MAXIMUM SPACING UPENING FOR ROLL-UP DOOR VITH HEADER 20'-0' (MAX.) 7 UPENING FOR PERSONNEL DOOR VITH HEADER

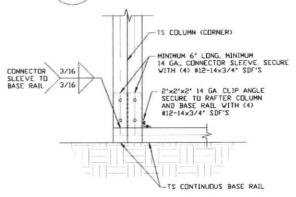
TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

CONNECTION DETAILS TS DOUBLE COLUMN MINIMUM 6' LONG, MINIMUM 14 GA., CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4' SDF'S CONNECTOR SLEEVE TO BASE RAIL (TYP.) 3/16 3/16 TS CONTINUOUS BASE RAIL PO\$T/BASE RAIL CONNECTION DETAIL SCALE: NTS TS ROOF RAFTER 2'x2'x2' 14 GA. ANGLE CLIP SECURE TO COLUMN AND RAFTER WITH #12-14x3/4' SDF'S 2 ON TOP AND 2 ON SIDE TS END COLUMN ENI) COLUMN/RAFTER CONNECTION DETAIL 4 TS COLUMN (CORNER MINIMUM 6' LONG, MINIMUM 14 GA., CONECTOR SLEEVE. SECURE WITH (4) #12-14x3/4' SDF'S CUNNECTOR SLEEVE TO BASE RAIL 3/16 2'x2'x2' 14 GA CLIP ANGLE SECURE TO RAFTER COLUMN AND BASE RAIL WITH (4) #12-14x3/4' SDF'S TS CONTINUOUS BASE RAIL ENI) COLUMN/BASE RAIL CONNECTION DETAIL **5B** SCALE: NTS TS COLUMN OR END COLUMN -2'x2'x2' 14 GA. ANGLE CLIP SECURE TO COLUMN AND EITHER TOP OF HEADER, OR BOTTOM OF VINDOW RAIL VITH #12-14x3/4' SDF'S TS HEADER OR VINDOW RAIL COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL 6 SCALE: NTS







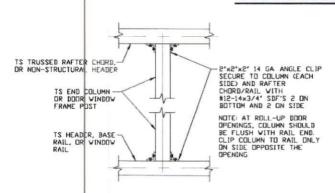
5A END COLUMN/BASE RAIL CONNECTION DETAIL

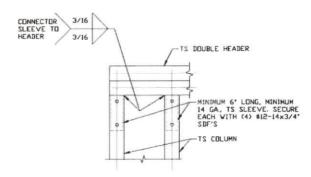
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DE SUR ECT TO LEGAL ACTI	W

	CLIENT: NC CARPORTS	SHT. 9	DWG. NO SK	-3	REV. 2
_	PROJECT MGR: VSM	DATE: 7-2-20	SCALE: NTS	JOB	18315S/19179S/ ND 20176S
	CHECKED BY: PH	15.00	27041 RUCTURE		
	DRAWN BY: JG		309 S. DEPOT	STRE	ET

CONNECTION DETAILS

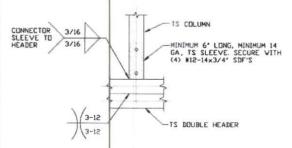


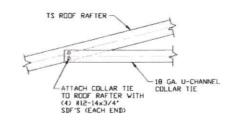


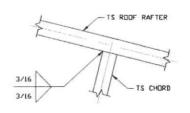
7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

SCALE: NTS

8 DOUBLE HEADER/COLUMN
CONNECTION DETAIL
SCALE: NTS



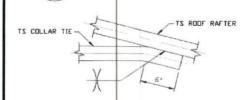




COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE NTS

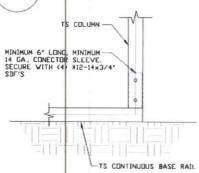
10 COLLAR TIE CONNECTION DETAIL
SCALE: NTS

11 RAFTER TO CHORD CONNECTION DETAIL



9

12 COLLAR TIE CONNECTION DETAIL



COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

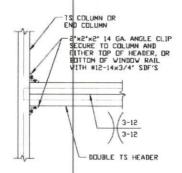
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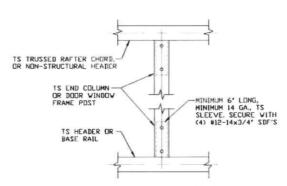
	CLIENT: NC CARPORTS	SHT. 10	DWG. ND: SK	-3	REV. 2		
	PROJECT MGR: WSM	DATE: 7-2-20	SCALE: NTS	JOB N	18315S/19179S/ ID 20176S		
٦.	CHECKED BY: PH	PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE					
	DRAWN BY: JG	309 S. DEPOT STREET					

NC CARPORTS AND GARAGES, LLC

CONNECTION DETAILS



DOUBLE HEADER
TO COLUMN
CONNECTION DETAIL
SCALE: NTS



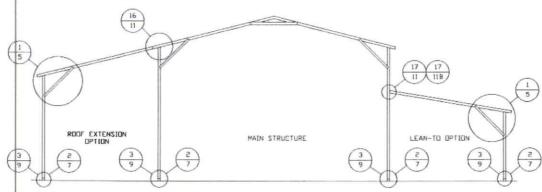
COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL SCALE: NTS

15

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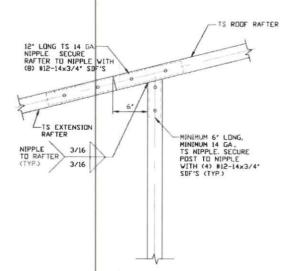
PROJECT MGR: WSM		LOT MOUNTA 16'-0" ENCLOS SCALE: NTS	ED STE	
PROJECT MGR: WSM		SCALE: NTS	JOB N	183155/191795
CLIENTI NC CARPORTS	SHT. 18A	DWG. ND: SK	-3	REV. 2

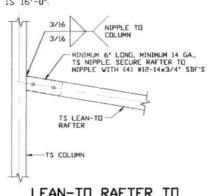
BOX EAVE RAFTER LEAN-TO OPTIONS



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

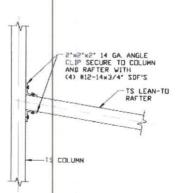
MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION AND LEAN-TO OPTION IS 12'-0'.
MAXIMUM WIDTH OF DOUBLE MEMBER ROOF EXTENSION AND LEAN-TO OPTION IS 16'-0'.





LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS & 12'-0'

ROOF EXTENSION RAFTER/CORNER
POST DETAIL FOR WIDTHS & 12'-0'



LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS < 12'-0'

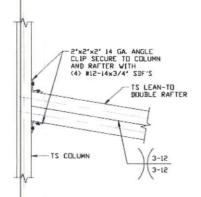
17B

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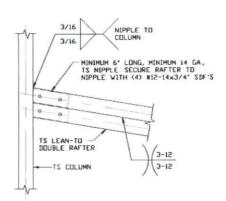
DRAWN BY: JG	PILOT MOUNTAIN, NC 270				
PROJECT MGR: VSM	DATE: 7-2-20			18315S/19179S/ ID: 20176S	
CLIENT: NC CAPPIDITS	SHT. 11	DVG. ND SK	-3	REV. 2	

BOX EAVE RAFTER LEAN-TO OPTIONS



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0" < T□ < 16'-0" 17C

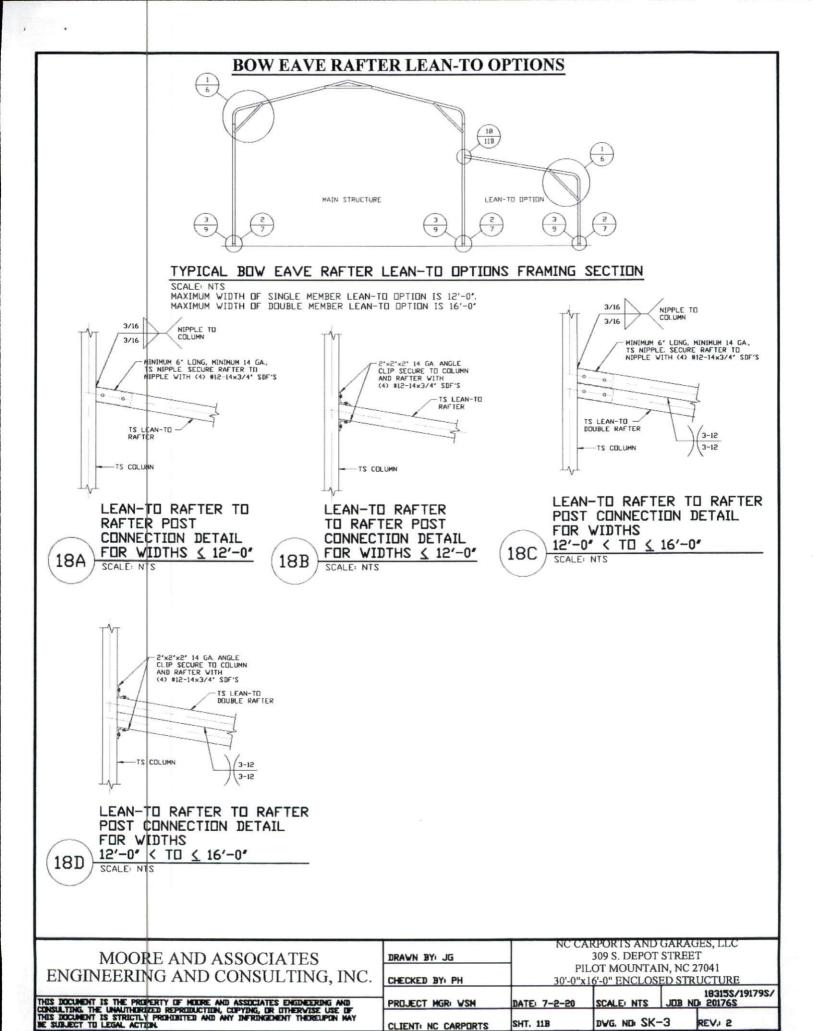
SCALE: NTS



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0" < T□ < 16'-0"

17D SCALE: NTS

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						18315\$/19179\$/
ENGINEERIN	GINEERING AND CONSULTING, INC. CHEC			PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE		
MOOF	E AND ASSOCIATES	DRAWN BY: JG		309 S. DEPOT	STREET	ſ



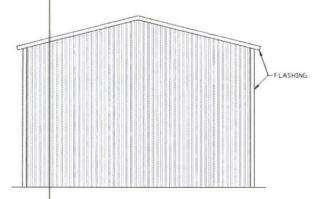
DVG. ND: SK-3

SHT. 11B

CLIENT: NC CARPORTS

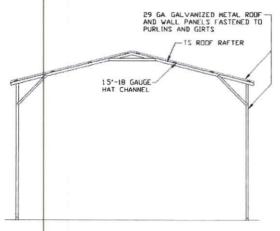
REV. 2

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



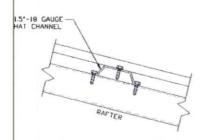
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

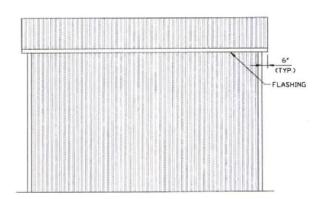


TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



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



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

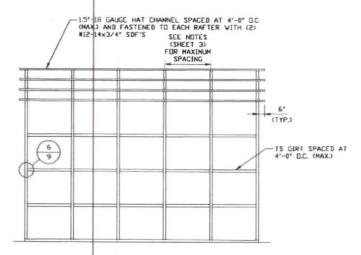
SCALE: NTS

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PROJECT MGR: WSM	DATE: 7-2-20	SCALE: NTS	JOB N	18315S/19179S/ ID: 20176S		
CHECKED BY: PH	PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE					
DRAWN BY: JG	NC CARPORTS AND GARAGES, LLC 309 S. DEPOT STREET					

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION WITH TS GIRTS

SCALE: NTS

MOORE AND ASSOCIATES	DRAVN BY: JG	NC CA	NC CARPORTS AND GARAGES, LLC 309 S. DEPOT STREET			
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