



STRUCTURAL DESIGN ENCLOSED BUILDING

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

25 June 2019 Revision 1 M&A Project No. 18315S/19179S

Prepared for:

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

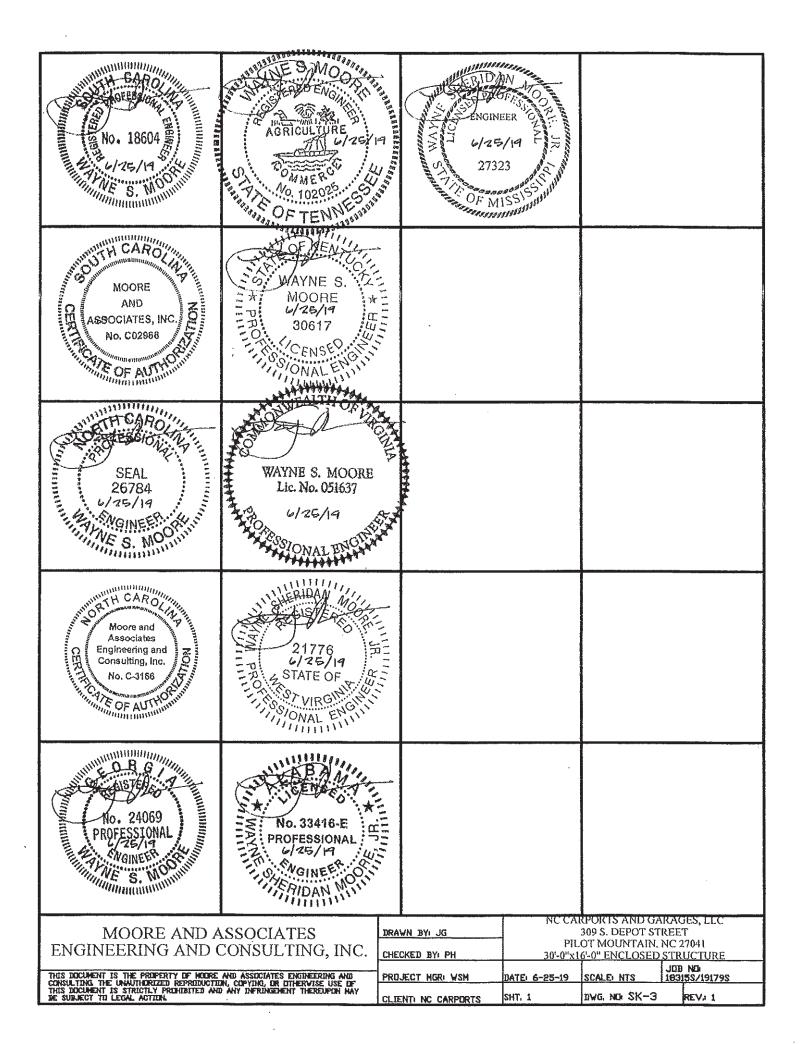
Prepared by:

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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BYI JG CHECKED BYI PH	PIL	CPORTS AND GAI 309 S. DEPOT STR OT MOUNTAIN, N 6'-0" ENCLOSED S	REET NC 27041
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INSTALLATION NOTES AND SPECIFICATIONS

- I DESIGN IS FOR MAXIMUM 30'-0" WIDE & 16'-0" EAVE HEIGHT ENGLOSED STRUCTURES
- 2 DESIGN WAS DONE IN AUGIRDANCE WITH THE 2018 NORTH CARDLINA BUILDING CODE 2009 INTERNATIONAL BUILDING CODE 180% 2012 1BC AND 2015 1BC
- 3 DESIGN LOADS ARE AS FOLLOWS
 - = 1.5 PSE AT BEAD LOAD = 12 354 B) LIVE LOAD
 - C: GROUND SNOW LOAD = 35 PSF
 - = 30 PSF (W & 24'-0' WITH U-CHANNEL COLLAR TIE:
- 4 3-SECOND GUST ULTIMATE WIND SPEED (VULT) 105 TO 145 MPH (NOMINAL WIND SPEED 82 TO 112 MPH)
- S 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 CATECORY I
- 8 WINE EXPOSURE CATEGORY B
- 9 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS MASTENED DIRECTLY TO 8 IV2" × 2 IV2" 14 GAUGE TUBE STEEL ("S) FRAMING MEMBERS (UNLESS NOTED DTHERWISE).
- 10 AVERAGE FASTENER SPACING DN-CENTERS ALONG RAFTERS OR HAT CHANNELS AND COLUMNS (INTERIOR OR END) = 9 INCHES
- 11. 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 16 FEET OR LESS, AND ROOF SLOPES OF 14" (3:12 PITCH) OR LESS SPACING RECUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY
- 18 ANCHERS SHALL BE INSTALLED THROUGH BASE RAIL VITHIN 6' DE EACH COLUMN.
- 13 STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 RESAR WIVELDED NUT SO! LONG SOIL NAILS MAY BE USED FOR WIND SPEEDS & 145 MPH AND IN SUITABLE SOIL CONDITIONS OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED FOR WIND SPEEDS IN 145 MPH AND OR IN SUITABLE SOILS AS NOTED.
- 14 WIND FORCES GEVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE

SCIL SITE CLASS = E RISK CATEGERY INTIVITI

ig= 10 R= 325 V= C_SW · 202= 5033

Sa.= 1258

		NC CA	RPORTS AND GA	RAGES, LLC
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VINCEY (AS APPLICABLE) PERSONNEL DOOR (AS APPLICABLE) JO-0' MAXIMUM RAFTER SPAN (V)

TYPICAL SIDE ELEVATION SCALE NTS

TYPICAL END ELEVATION
SCALE NTS

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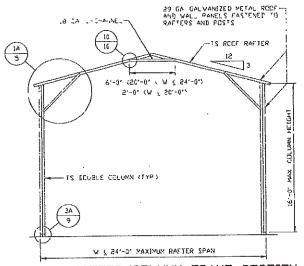
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TYPICAL SIDE ELEVATION
SCALE NTS

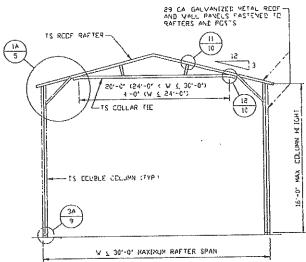
TYPICAL END ELEVATION SCALE NTS

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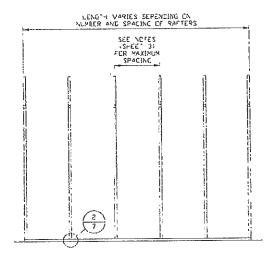
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			PILOT MOUNTAIN, NC 27041					
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TYPICAL RAFTER/COLUMN FRAME SECTION
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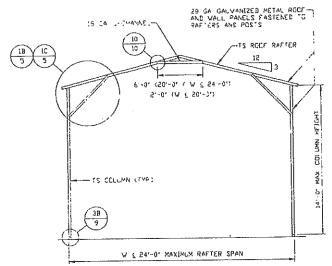


TYPICAL RAFTER/COLUMN FRAME SECTION SCALE NTS

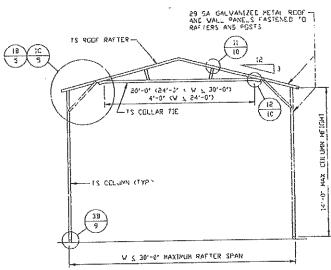


 $\frac{\text{TYPICAL}}{\text{SCALE}} \; \stackrel{\text{RAFTER/COLUMN}}{\text{SIDE}} \; \text{FRAMING} \; \; \text{SECTION}$

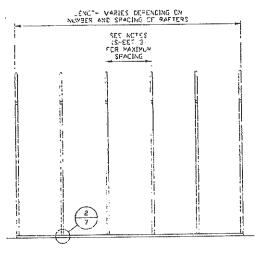
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TYPICAL RAFTER/COLUMN FRAME SECTION SCALE NTS

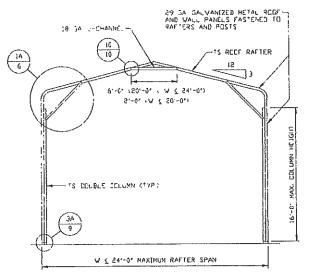


TYPICAL RAFTER/COLUMN FRAME SECTION

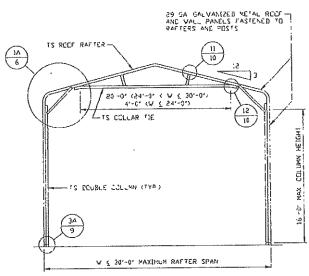


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

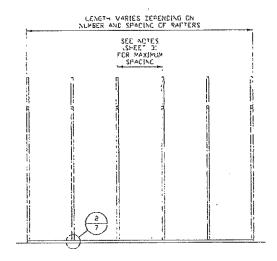
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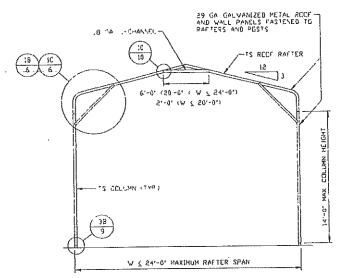


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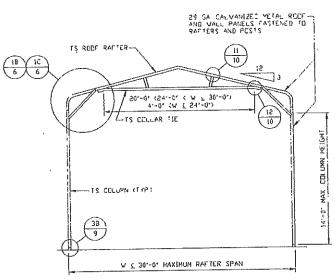


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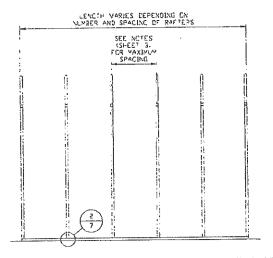
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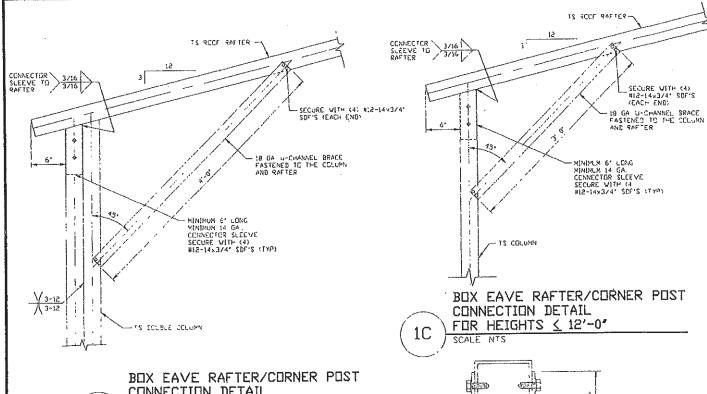


TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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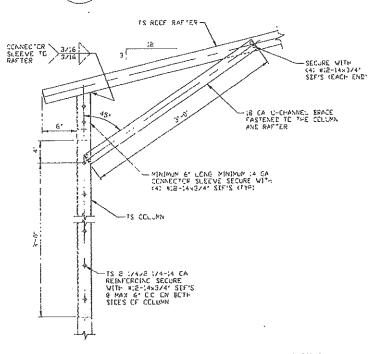
-18 CA J-C-ANNEL BRACE FASTENED TO THE COLUMN AND RECE RAFTER WITH (4" #12-14x3/4" SIF'S AT EACH END (8 PER BRACE)

BRACE SECTION

SCALE NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

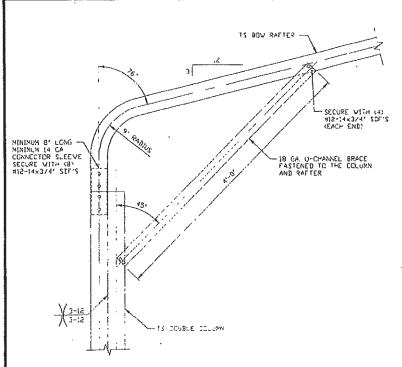
(1A) FOR HEIGHTS 14'-0" < TO < 16'-0"



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO < 14'-0" SCALE: N'S

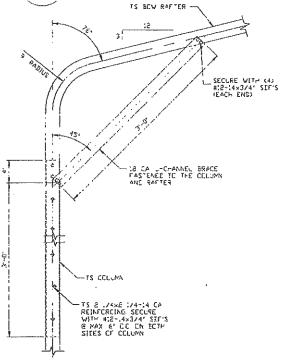
1B

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BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS 14'-0' < TO < 16'-0"



BOW RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO < 14'-0" SCALE: NTS

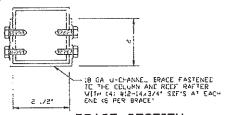
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12 BCM SAFTES -
MINIMUM 8' LCNG MINIMUM 14 GA CONNECTOR SLEEVE SECURE WITH (4. H12-14x3/4' SDF'S (EACH END) H12-14x3/4' SDF'S AND QAFTER 18 AND QAFTER
TS CGLUKN
BOX EAVE RAFTER/CORNER POST

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS \(\) 12'-0"

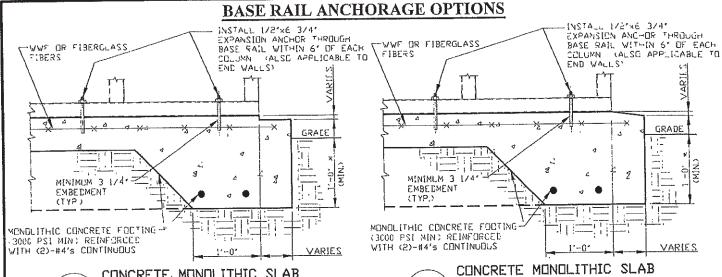
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CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4" * COCRDINATE WITH LOCAL CODES/ERD.

GENERAL NOTES NOTE CONCRETE MENDLITHIC SLAB BESIGN BASED ON MINIMUM SCIL BEARING CAPACITY OF 1500 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 ACT-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

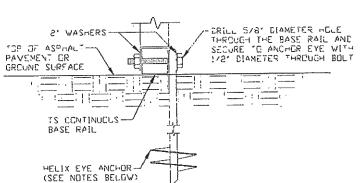
THE TURNEDWA REINFORCING STEEL SHALL BE ASTM AGIS GRADE 60 THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM ALSS OR FIBERGLASS FIBER REINFORCEMENT

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

REINFORCEMENT IS BENT COLD THE TIAMETER OF THE BENT MEASURED IN 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 CHARSE GRAVEL AND CUBBLES CALICHE, PRELIBATED SIL'S AND CLAYS, USE MINIMUM (2): 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" -ELIX WITH MINIMUM 50" EMBEDMENT
- 2 FER CGRAL USE MINIMUM (8' 4' HELICES WITH MINIMUM 30' EMBELMENT OR SINCLE 6' HELIX WITH MINIMUM 50' EMBELMENT
- FER MEDIUM CENSE COARSE SANCS SANCY CRAVELS VERY STIFF SILTS AND CLAYS USE MINIMUM (2) 4' HELICES WITH MINIMUM 3C INCH EMBEDMEN' OR SINGLE 6' HELIX WITH MINIMUM ECT EMBERMENT
- FOR LODGE TO MEDIUM CENSE SAMES FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL USE MINIMUM (2' 6' HELICES WITH MINIMUM SC' EMBERMENT
- 5 FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS ALLUVIAL FILL USE MINIMUM (2) 6' HELICES WITH MINIMUM 6C' EMBEDMENT



SCALE: NTS

BASE RAIL ANCHURAGE

MINIMUM ANCHER EDGE DISTANCE IS 4°

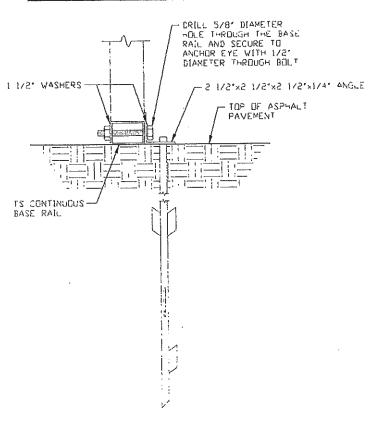
* COURTINATE WITH LOCAL COTES/ORD

GROUND BASE HELIX ANCHORAGE STALE ATS (CAN BE USED FOR ASPHALT)

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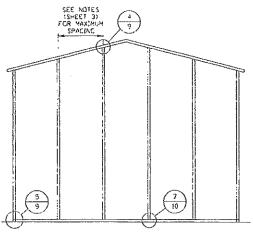
BASE RAIL ANCHORAGE OPTIONS



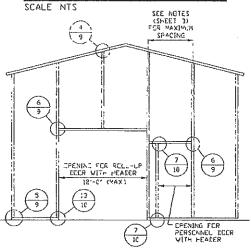
2D ASPHALT BASE ANCHURAGE

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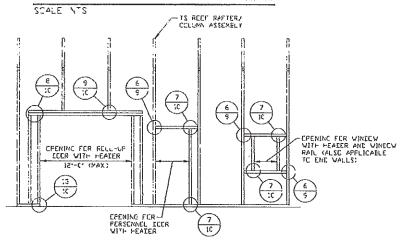
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

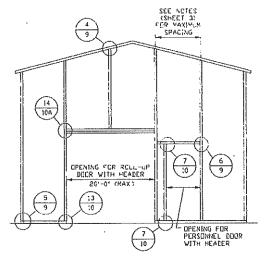


TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION
SCALE NTS

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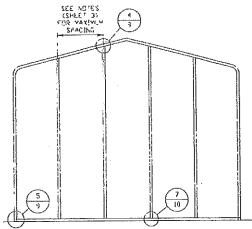
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		PILOT MOUNTAIN, NC 27041					
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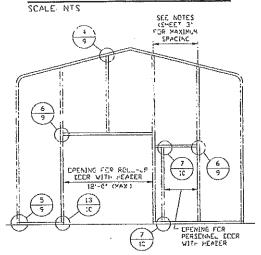
TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE NTS

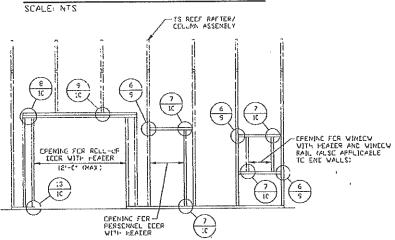
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



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

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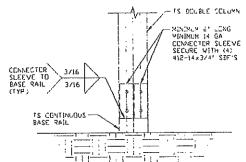
CLIENT: NC CARPORTS	SHT. 8A	DWG, NO SK-3	REV. 1		
PROJECT HGR: VSM	DATE: 6-25-19	SCALE: NTS	JDB ND 193155/191795		
CHECKED BY: PH	PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURI				
DRAWN BY: JG	NC CARPORTS AND GARAGES, LLC 309 S. DEPOT STREET				

SEE NOTES (SHEET 3) FIR MAKINUM SPACING
14 10A
GPENING FUR RELL-UF DEGR WITH HEADER 20'-C' (MAX)
GPENING FGR PERSONNEL DEDR VITH HEADER

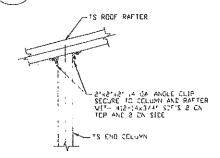
TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE NTS

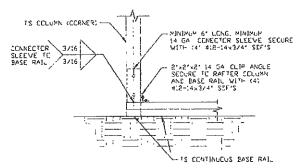
CONNECTION DETAILS 15 DOUBLE COLUMN MINIMUM 14 GA GA ONNECTION DETAILS



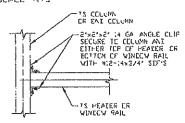
POST/BASE RAIL
CONNECTION DETAIL
SCALE NTS



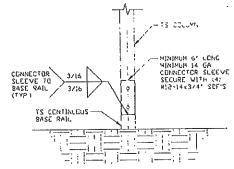
4 CONNECTION DETAIL SCALE NTS



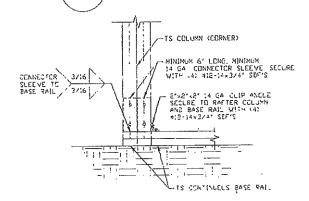
5B END COLUMN/BASE RAIL CONNECTION DETAIL SCALE NTS



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



POST/BASE RAIL
CONNECTION DETAIL
SCALE: MTS



END COLUMN/BASE RAIL CONNECTION DETAIL

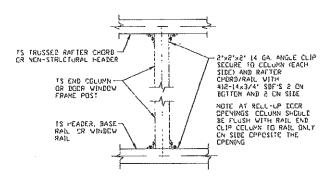
SCALE NTS

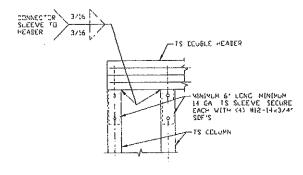
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ENGINEERING AND CONSULTING, INC.

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	PILOT MOUNTAIN, NC 27041					
CHECKED BY: PH	30'-0"x16'-0" ENCLOSED STRUCTUR					
PROJECT MGR: VSM	DATE: 6-25-19	SCALE: NTS	JDB ND: 18315S/19179S			
FREDECT FIRM WOM	DHIEL G-EG-X7	SOMELI ITTO	100103/131/73			
CLIENT: NC CARPORTS	SHT. 9	BWG, NO SK-3	REV. 1			

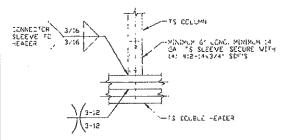
CONNECTION DETAILS



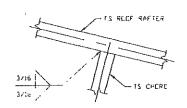


COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL SCALE NTS

DOUBLE HEADER/COLUMN CONNECTION DETAIL 8 SCALE NTS



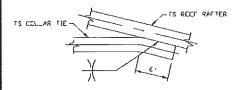
TS ROOF RAFTER 18 GA. UHCHANAEL CELLAR FIE ATTACH CCLLAR TIE
TO RECE PAFTER WITH
(4: #12-14x9/4'
SCF'S (EACH END)



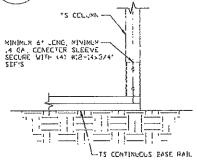
COLUMN/DOUBLE HEADER CONNECTION DETAIL 9 SCALE: NTS

COLLAR TIE CONNECTION DETAIL 10 SCALE NTS

RAFTER TO CHORD CONNECTION DETAIL 11 SCALE NTS



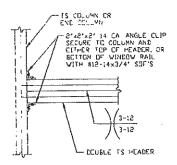
COLLAR TIE CONNECTION DETAIL 12 SCALE NTS



COLUMN/BASE RAIL CONNECTION DETAIL 13 SCALE: NTS

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- 1			NC CAI	RPORTS AND GA	KAUES, LLC
-	MOORE AND ASSOCIATES	DRAWN BYI JG	ļ	309 S, DEPOT ST	REET
- 1			PIL	OT MOUNTAIN,	NC 2704 l
1	ENGINEERING AND CONSULTING, INC.	CHECKED BY: PH	30'-0"x1	6'-0" ENCLOSED	STRUCTURE
			· · · · · · · · · · · · · · · · · · ·		JOB NO
1	THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND	PROJECT MGR: WSM	DATE: 6-25-19	SCALE: NTS	183155/191795
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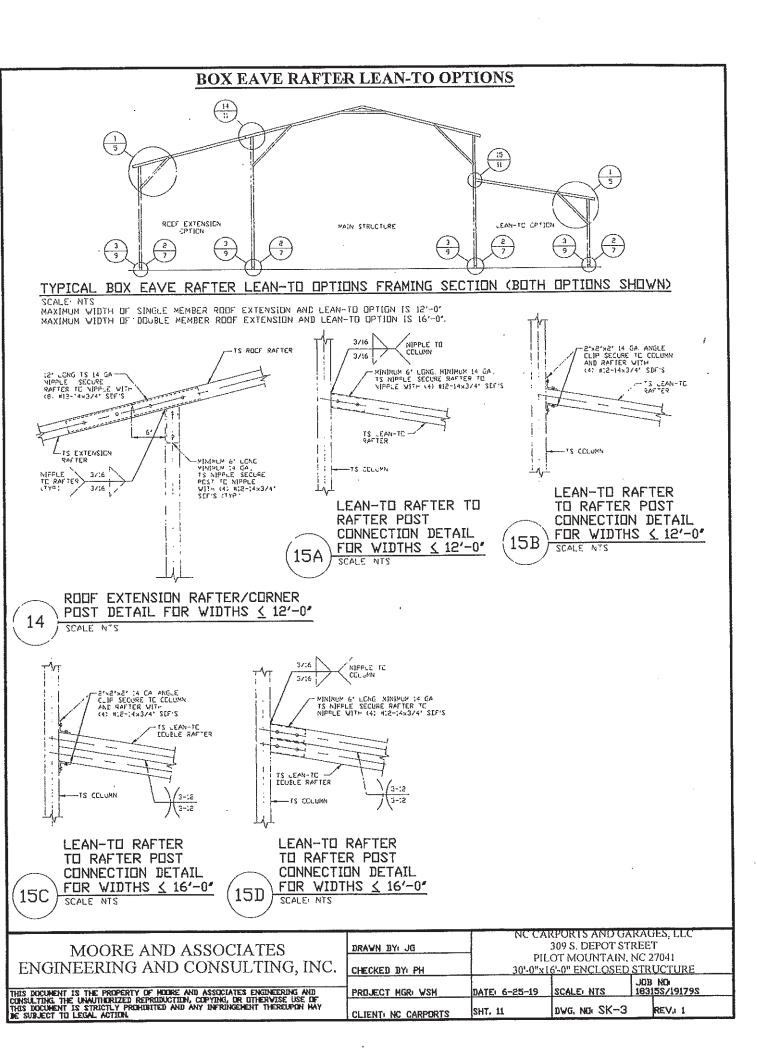
CONNECTION DETAILS



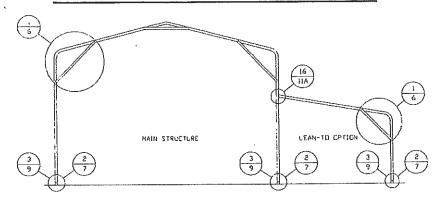
DOUBLE HEADER TO COLUMN CONNECTION DETAIL

SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG	NC CARPORTS AND GARAGES, L 309 S. DEPOT STREET PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTU		EET IC 27041
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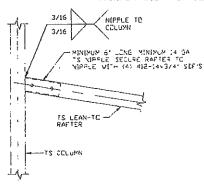


BOW EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

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



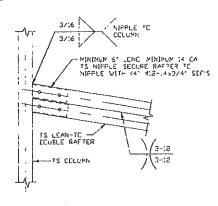
21x2'x2' 14 GA ANCLE CLIF SECURE TO COLUMN AND RAFTER WITH (4) #12-14x3/4' SDF'S TS LEAN-TG TS CELUMN

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

16A

16C

LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS ≤ 12'-0" 16B



2'x2'x2' :4 EA ANGLE CLIP SECURE TO COLUMN AND RAFTER WITH (4: #:2-:4x3/4' SIF'S IS LEAN-IE EEGELE RAFTER TS CELURN

LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS ≤ 16'-0" SCALE: NTS

LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS < 16'-0" 16D SCALE: NTS

DRAWN BY: JG

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ENGINEERING AND CONSULTING, INC.	

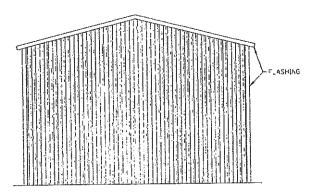
PILOT MOUNTAIN, NC 27041 CHECKED BY: PH 30'-0"x16'-0" ENCLOSED STRUCTURE JOB NO SCALE: NTS 183155/191795 PROJECT MGR: WSH DATE: 6-25-19 DVG, NO SK-3 SHT, 11A CLIENT: NC CARPERTS

NC CARPORTS AND GARAGES, LLC 309 S. DEPOT STREET

REV. 1

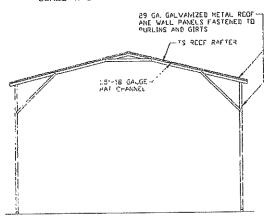
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION

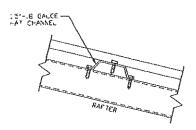


TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

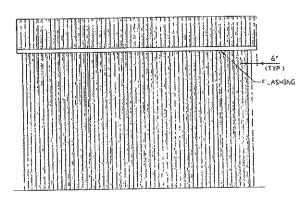


TYPICAL SECTION
VERTICAL ROOF/SIDING OPTION
SCALE NTS



PANEL ATTACHMENT

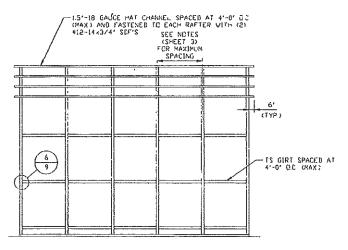
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

NC CARPORTS AND GARAGES, LLC 309 S. DEPOT STREET DRAWN BY: JG MOORE AND ASSOCIATES PILOT MOUNTAIN, NC 27041 ENGINEERING AND CONSULTING, INC. 30'-0"x16'-0" ENCLOSED STRUCTURE CHECKED DY PH JDB NO 103155/191795 THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPRIDUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRUCTLY PROHIBITED AND ANY DWININGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION. DATE: 6-25-19 SCALE: NTS PROJECT MGR: WSM DWG, NO SK-3 REV. 1 SHT, 12 CLIENT: NC CARPURTS

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION
WITH TS GIRTS
SCALE NTS

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