

STRUCTURAL DESIGN

ENCLOSED BUILDING

MAXIMUM 30'-0" WIDE X 14'- 0" EAVE HEIGHT-BOX EAVE FRAME AND BOW FRAME

14 January 2021
Revision 0
M&A Project No. 20320S

Prepared for:

CarportsNSheds, LLC 158 Gatehouse Ln. Dobson, NC 27017

Prepared by:

Moore and Associates Engineering and Consulting, Inc. 1009 East Avenue North Augusta, SC 29841

> 401 S. Main Street, Suite 200 Mount Airy, NC 27030



Fuguay Varina, NC 27526			Drawings to be	used by Jordan	Harris only.
No. 18604 8	AGRICUL JARE NO. 102020	21	Ç		
MOORE AND NO. C02968	WAYNE S. MOORE Lic. No. 051637				
SEAL 26784 1/18/21 NGINEER ON THE S. MOONTHE	21776 1/13/21 PR STATE OF STOREST VIRGINIAN STATE OF STOREST VIRGINIAN STATE OF STOREST VIRGINIAN STATE OF STOREST VIRGINIAN STATE OF STAT				
Moore and Associates Engineering and Consulting, Inc. No. C-3166	ARPOR	TSNS	SHED.		
No. 24069 PROFESSIONAL PROFESSI					
MOORE AND A	ASSOCIATES	DRAVN BY: LT		ARPURTSNSHEL 158 GATEHOUS	ELN.
ENGINEERING AND (CHECKED BY: PDH	30'-0"x1	DOBSON, NC 2 4'-0" ENCLOSED	
THIS DOCUMENT IS THE PROPERTY OF MODRE CONSULTING. THE UNAUTHORIZED REPRODUCTION	AND ASSOCIATES ENGINEERING AND IN, COPYING, OR OTHERVISE USE OF	PROJECT MGR: VSM	DATE: 1-14-21	SCALE: NTS	JOB ND 20320S
THIS DOCUMENT IS STRUCTLY PROHIBITED AND BE SUBJECT TO LEGAL ACTION.	HAT DE KUNGERENT THEREUPEN MAY	CLIENT: CARPORTSNSHE	DS SHT. 1	DWG. ND SK-3	REV. 0

Drawings to be used by Jordan Harris only.

DRAWING INDEX

SHEET 1	PE SEAL COVER SHEET
SHEET 2	DRAWING INDEX
SHEET 3	INSTALLATION NOTES AND SPECIFICATIONS
SHEET 4	TYPICAL SIDE AND END ELEVATIONS
SHEET 5	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE RAFTER)
SHEET 5A	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE RAFTER)
SHEET 6	COLUMN CONNECTION DETAILS (BOX EAVE RAFTER)
SHEET 7	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOW EAVE RAFTER)
SHEET 7A	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOW EAVE RAFTER)
SHEET 8	COLUMN CONNECTION DETAILS (BOW EAVE RAFTER)
SHEET 9	BASE RAIL ANCHORAGE OPTIONS
SHEET 10	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOX EAVE RAFTER)
SHEET 11	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOW EAVE RAFTER)
SHEET 12	CONNECTION DETAILS
SHEET 13	CONNECTION DETAILS
SHEET 14	LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET 15	LEAN-TO OPTIONS (BOW EAVE RAFTER)
SHEET 16	VERTICAL ROOF/SIDING OPTION END AND SIDE ELEVATION AND SECTION (BOX EAVE RAFTER)
SHEET 17	SIDE WALL AND END WALL HEADER OPTIONS



CONSULTING THE ORBITATION REPRODUCTION, COPYING, OR DIFFERENCE SEE OF THIS DOCUMENT IS STRICTLY PRODUCTED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: CARPORTSNSHEDS	SHT. 2	DVG. NO SK-3	REV. 0		
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	PROJECT MGR: VSM	DATE: 1-14-21	SCALE: NTS	JOB ND 20320S		
ENGINEEDING AND CONCULTING INC	CHECKED BY: PDH	DOBSON, NC 27017 30'-0"x14'-0" ENCLOSED STRUCTURE				
MOORE AND ASSOCIATES	DRAWN BY: LT]	158 GATEHOUSE LN.			

INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30'-0" WIDE \times 14'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
- 2, DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, 2018 INTERNATIONAL BUILDING CODE (IBC), 2015 IBC AND 2012 IBC
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD

= 1.5 PSF

B) LIVE LOAD

= 12 PSF

C> GROUND SNOW LOAD

= 30 PSF (< 24'-0*), 35 PSF (24'-0* < ₩ < 30'-0*)

NOTE: UNBALANCED SNOW LOAD DUE TO DRIFTING HAS NOT BEEN EVALUATED

- 4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) = \leq 140 MPH (NOMINAL WIND SPEED = \leq 108 MPH)
- 5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
- 6, ENDWALL COLUMNS (POSTS) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
- 7 RISK CATEGORY L
- 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) 2 1/4' x 2 1/4' 12 GAUGE TS MAY BE USED AS OPTIONAL FRAMING MEMBERS
- 10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10 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, ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF JOINT SEALANT.
- 12 ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' DF EACH COLUMN.
- 13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 30' LONG AND MAY ONLY BE USED IN CONJUNCTION WITH OTHER (OPTIONAL) ANCHOR DEVICES AND ONLY IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED. COORDINATE WITH LOCAL CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST
- 14 WIND FORCES GOVERN OVER SEISMIC FORCES, SEISMIC PARAMETERS ANALYZED ARE:

SDIL SITE CLASS = D RISK CATEGORY I

I_E= 1,0

R = 3.25g = 2.039 g

v= csw

 $S_{DI} = 1258 g$

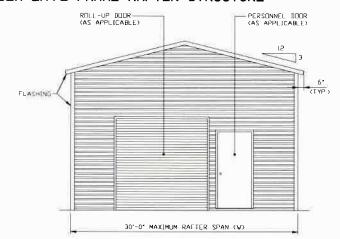


MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

ZIHT	DECLINENT	IS THE PROP	ERTY OF HOURS	AND ASSUCIA	TES ENGINEERING	AND
					OR OTHERVISE USE	
					SEMENT THEREUPON	
		A FORAL ACCOUNT				

DRAWN BY: LT CHECKED BY: PDH	CARPORTSNSHEDS, LLC 158 GATEHOUSE LN. DOBSON, NC 27017 30'-0"x14'-0" ENCLOSED STRUCTURE					
PROJECT MGR: VSM CLIENT: CARPORTSNSHEDS				ND: 20320S		

BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

SCALE: NTS

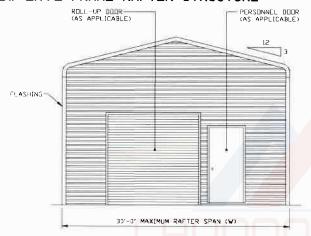
TYPICAL SIDE ELEVATION

FLASHING

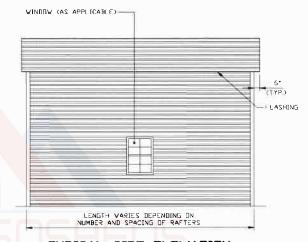
WINDOW (AS APPLICABLE)

SCALE: NTS

BOW EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION



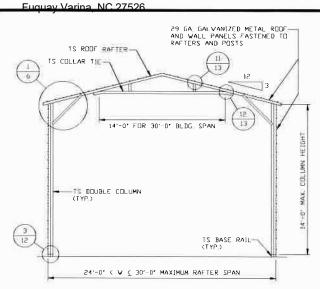
TYPICAL SIDE ELEVATION SCALE NTS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

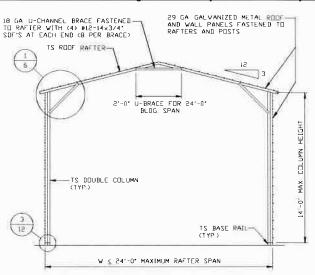
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRUCTLY PROBUBILITY AND ANY DIFFRINGEMENT THEREUPON MAY
THIS DECORATE TO THE PROPERTY OF PERSONS AND PROPERTY OF THE PERSONS AND PROPERTY OF T
CONSULTING THE GRADIHURIZED REPRODUCTION, COPTING, OR DITERRATSE USE OF
ITHIS DOCUMENT IS STRICTLY PROHOBITED AND ANY INFRINGEMENT THEREUPON MAY
DE SUBJECT TO LEGAL ACTION

CLIENT: CARPORTSNSHEDS	SHT. 4	DWG. ND SK-	REV. 0						
PROJECT MGR: VSM	DATE: 1-14-21	SCALE: NTS	<u>Jo</u> n	ND 203202					
CHECKED BY: PDH	30'-0"x14'-0" ENCLOSED STRUCTURE								
DRAWN BY: LT	158 GATEHOUSE LN. DOBSON, NC 27017								
	CARPORTSNSHEDS, LLC								

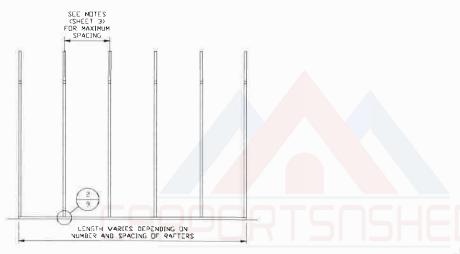
Drawings to be used by Jordan Harris only



TYPICAL RAFTER/COLUMN FRAME SECTION

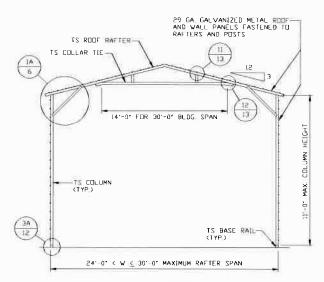


TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

THIS DICLOFALT IS STRICTLY PRINTED AND ANY INFRINGENENT THEREIRIN MAY	CLIENT: CARPORTSNSHEDS	SHT. 5	DWG. ND SK-3	3 8	EV. 0	
THIS DOCUMENT IS THE PROPERTY OF MODIFIE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF	PROJECT MGR: VSM	DATE: 1-14-21	SCALE: NTS	J.039	ND: 20320S	
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"x	DOBSON, NC 27017 30'-0"x14'-0" ENCLOSED STRUCTURE			
MOORE AND ASSOCIATES	DRAWN BY: LT		CARPORTSNSHEDS, LLC 158 GATEHOUSE LN.			



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

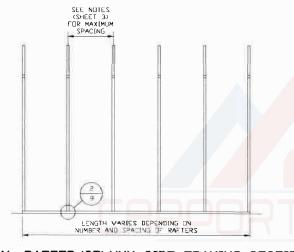
18 GA U-CHANNEL BRACE FASTENED
TO RAFTER WITH (4) HI2-14x3/4'
SDF'S AT EACH END (8) PER BRACE)
TS ROUF RAFTER

2'-0' U-BRACE FIR 24'-0'
BLDG SPAN

15 BASE RAIL
(TYP)

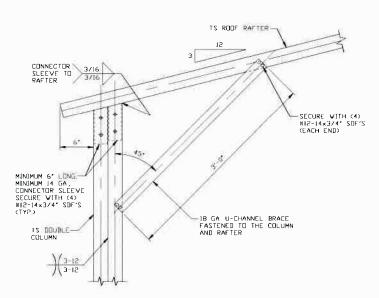
V < 24'-0' MAXIMUM RAFTER SPAN

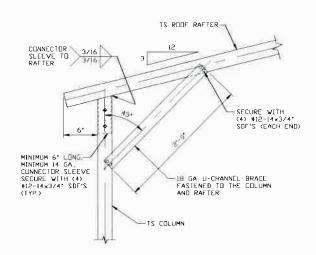
TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

IS DOCUMENT IS STRICTLY PROHOBITED AND ANY INFRINGEMENT THEREUPON MAY SUBJECT TO LEGAL ACTION.	CLIENT: CARPORTSNSHEDS	SHT. 5A	DVG. ND SK-	3	REV. 0
IS DOCUMENT IS THE PROPERTY OF MODINE AND ASSOCIATES ENGINEERING AND INSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF	PROJECT MGR: VSM	DATE: 1-14-21	SCALE: NTS	JOB	ND: 20320S
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	DOBSON, NC 27017 30'-0"x14'-0" ENCLOSED STRUCTU			UCTURE
MOORE AND ASSOCIATES	DRAWN BY: LT		ARPORTSNSH 158 GATEHOU	JSE ĹN	

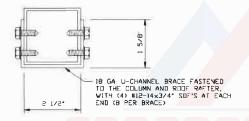




BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 11'-0' < TO < 14'-0'

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS & 11'-0"

1A SCALE: NTS

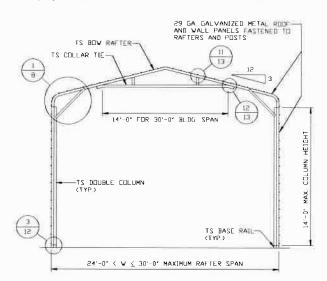


BRACE SECTION

SCALE: NTS

1

THIS DOCUMENT IS STRICTLY PROHUBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENTI CARPORTSNSHETIS	SHT. 6	DWG. NO SK-	3	REV. 0		
ENGINEERING AND CONSULTING, INC. THIS DOCUMENT IS THE PROPERTY OF MODIFE AND ASSOCIATES ENGINEERING AND CRESH THIS, THE INMITTHERED REPORTS LIKE OF THE PARTY OF	PROJECT MGR: VSM	DATE: 1-14-21	SCALE: NTS	JOB	ND 20320S		
		30'-0"5	DOBSON, NC 14'-0" ENCLOSE				
MOORE AND ASSOCIATES	DRAWN BY LT		CARPORTSNSHEDS, LLC 158 GATEHOUSE LN				



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

18 GA U-CHANNEL BRACE FASTENED
TD RAFTER WITH (4) MI2-143/4*
SDF'S AT EACH END (8 PER BRACE)
TS BOW RAFTER

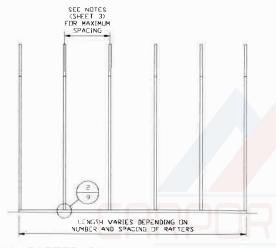
2'-0' U-BRACE FDR 24'-0'
BL DG SPAN

15 BOUBLE COLUMN
(TYP)

V (24'-0' MAXIMUM RAFTER SPAN

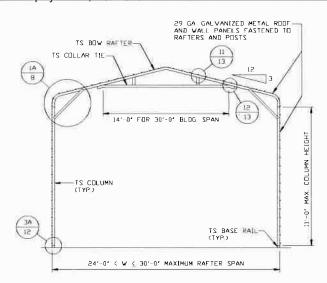
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

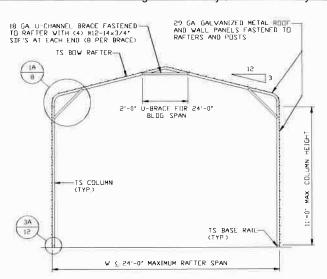


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

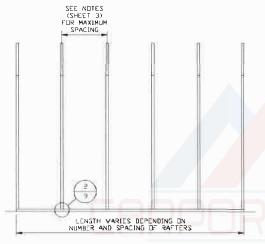
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT CHECKED BY: PDH	CARPORTSNSHEDS, LLC 158 GATEHOUSE LN. DOBSON, NC 27017 30'-0"x14'-0" ENCLOSED STRUCTURE			l .
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	PROJECT MGR: VSM	DATE: 1-14-21	SCALE: NTS	JOE	ND: 20320S
THIS DOCUMENT IS STRUCTLY PROMUBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: CARPURTSNSHEDS	SHT. 7	DVG. ND SK-	3	REV. 0



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

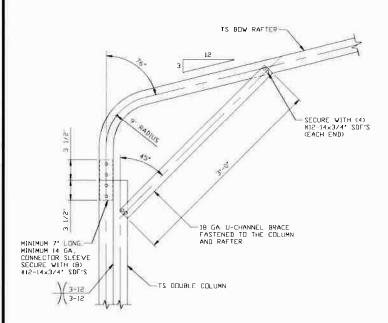


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNMUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS BOCUMENT IS STRICTLY PROHIBITED AND ANY DIFROGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

CLIENT: CARPURTSNSHEDS	SHT. 7A	DWG. NO SK-3		REV. 0	
PROJECT MGR: WSM	DATE: 1-14-21	SCALE: NTS		20320S	
CHECKED BIT FUH	30-0 x	T ENCLOSE	T	OCTORE	
CHECKED BY: PDH	DOBSON, NC 27017 30'-0"x14'-0" ENCLOSED STRUCTURE				
DRAWN BY: LT		158 GATEHOU	,		
		CARPORTSNSHI	ED5. L	.LC	



TS BOW RAFTER-SECURE WITH (4) #12-14×3/4" SDF'S (EACH END) 18 GA U-CHANNEL BRACE FASTENED TO THE COLUMN AND RAFTER MINIMUM 7' LONG. — MINIMUM 14 GA. CONNECTOR SLEEVE SECURE WITH (8) #12-14x3/4' SDF'S TS COLUMN

BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO ≤ 14'-0"

CONNECTION DETAIL FOR HEIGHTS ≤ 11'-0" SCALE: NTS

BOW EAVE RAFTER/CORNER POST

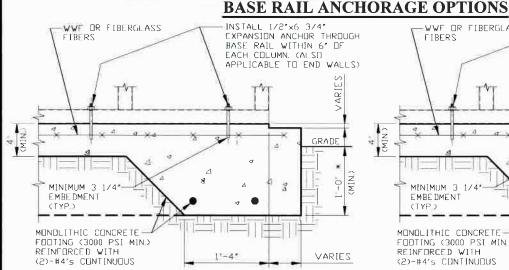
18 SA U-CHANNEL BRACE FASTENED TO THE COLUMN AND ROOF RAFTER, WITH (4) H12-14-32/4' SDF'S AT EACH END (8 PER BRACE) 2 1/2*

BRACE SECTION SCALE: NTS

1

1A

THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINCEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: CARPURTSNSHEDS	\$HT. 8	DWG. ND: SK-3	3	REV. 0
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	PROJECT MGR: VSM	DATE: 1-14-21	SCALE: NTS	JOE	ND 20320S
ENGINEERING AND CONSULTING, IN	CHECKED BY: PDH	30'-0"x	DOBSON, NC 2 14'-0" ENCLOSEI		
MOORE AND ASSOCIATES	DRAWN BY: LT] '	CARPORTSNSHE 158 GATEHOUS	SE ĹŊ	Į,



2

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4'
* COORDINATE WITH LOCAL CODES/ORD REGARDING MINIMUM FROST DEPTH REQ

GENERAL NOTES

NOTE: CONCRETE MONDLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1.500 PSF.

CONCRETE

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

COVER OVER REINFORCING STEEL:

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

3' IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2' ELSEWHERE.

REINFORCING STEEL:

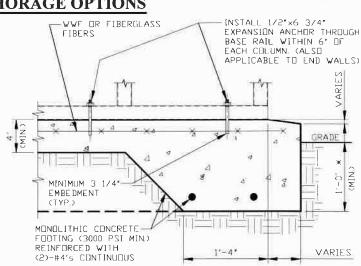
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM 4615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM 4185 OR FIBERGLASS FIBER REINFORCEMENT.

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

- REINFORCEMENT IS BENT COLD 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:

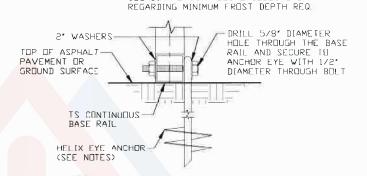
- 1 FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- 2 FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM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



2A

CONCRETE SLAB BASE RAIL ANCHURAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4'.
* COORDINATE WITH LOCAL CODES/ORD.



GROUND BASE HELIX ANCHORAGE

SCALE: NTS (CAN BE USED FOR ASPHALT)

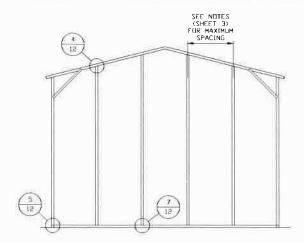
COORDINATE WITH LOCAL CODES/ORD REGARDING MINIMUM FROST DEPTH REQ

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, IN	۷C.

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNWITHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

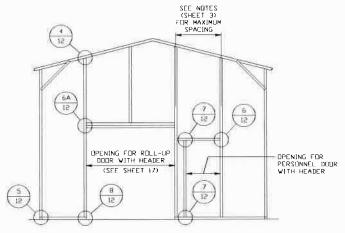
CI TE	ENT: CARPORTSNSHEDS	SHT. 9	DVG. NO SK-3	3	REV. 0
PRO.	JECT MGR: WSM	DATE: 1-14-21	SCALE: NTS	Jos	ND: 20320S
CHE	CKED BY: PDH	DOBSON, NC 27017 30'-0"x14'-0" ENCLOSED STRUCTURE			
DRA	WN BY: LT	158 GATEHOUSE LN.:			
			CARPORTSNSHE	:DS, L	LC

BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



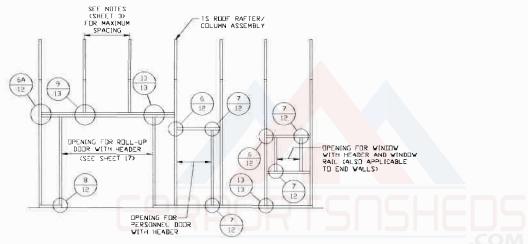
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



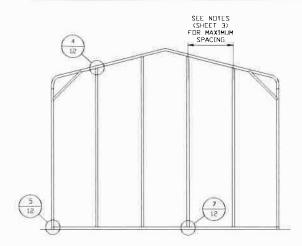
TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

ENGINEERING AND CONSULTING, INC.
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND

THIS DOCUMENT IS	THE PROPERTY OF MO	DRE AND ASSOCIATES EN	CONFERING AND
		ICTION, COPYING, OR OTH	
TUTE TOCHEST TO	PTOTOTI V BOOKSTITTED	AND ANY DEDICATION	THE BETT WAY
THE SUBJECT TO LE		MATERIAL PROPERTY.	INEXERS IN PART
		AND ANY INFRINGEMENT	THEREUPON MAY

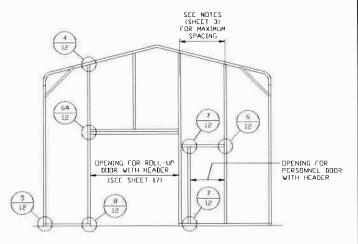
	CLIENT: CARPORTSNSHEDS	SHT. 10	DWG. NO SK-3		REV. 0	
ī	PROJECT MGR: VSM	DATE: 1-14-21	SCALE: NTS		S03502 - ON 6	
	CHECKED BY: PDH	30'-0"x14'-0" ENCLOSED STRUCTURE				
	DRAWN BY: LT	158 GATEHOUSE ĹN. DOBSON, NC 27017				
		1 2	ARPURTSNSHI	140	1.5.	

BOW EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



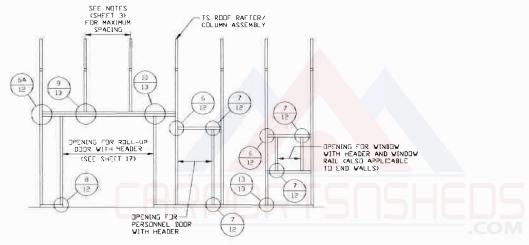
TYPICAL BOW EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW EAVE RAFTER END WALL OPENINGS FRAMING SECTION

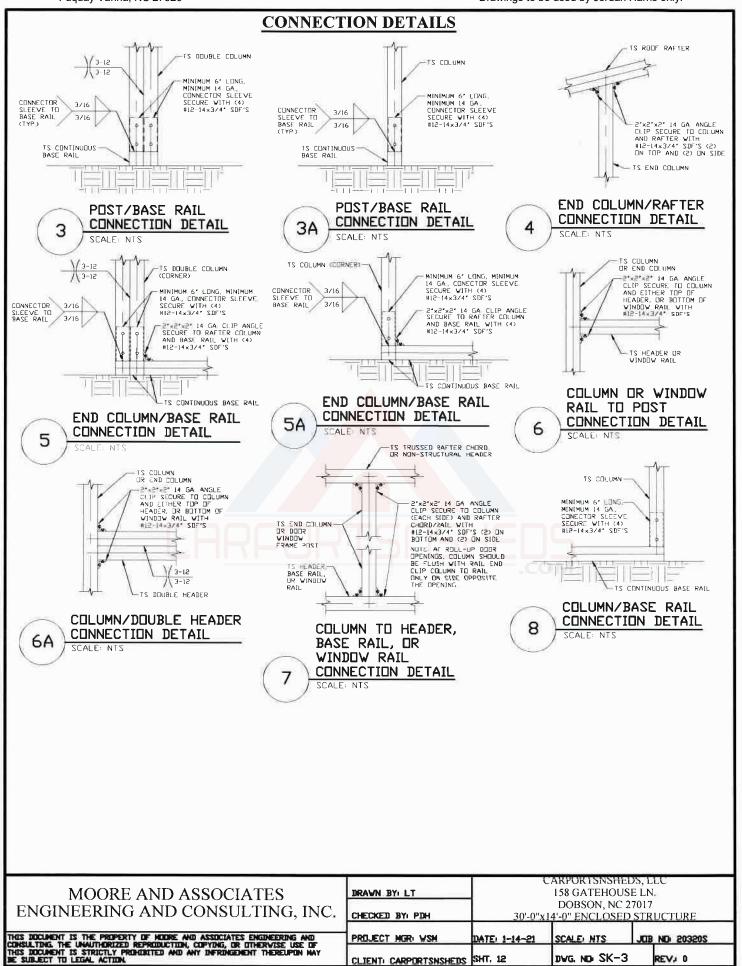
SCALE: NTS



TYPICAL BOW EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

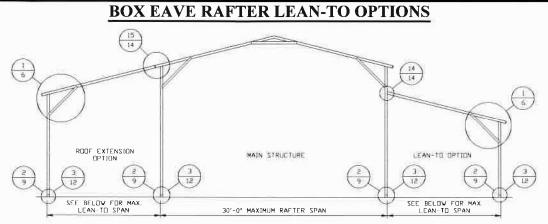
MOORE AND ASSOCIATES	DRAW
ENGINEERING AND CONSULTING, INC.	CHEC
THIS DOCUMENT IS THE PROPERTY OF HOURE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	PROJE
THIS DOCUMENT IS STRICTLY PROMUNTED AND ANY DIFRONGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIEN

1	CI IENT, CADDIDTENSUETIS	SHT. 11	DVG. ND SK-	3	REV. 0
7	PROJECT MGR: WSM	DATE: 1-14-21	SCALE: NTS	JOE	ND 20320S
1	CHECKED BY: PDH	30'-0"x	14'-0" ENCLOSE 	DSTR	UCTURE
Г	DRAWN BY: LT		158 GATEHOU DOBSON, NC	27017	
Т			.ARPUR I SNSHI	EDS, L	LU



CONNECTION DETAILS 3-15 TS COLUMN MINIMUM 6' LONG, MINIMUM 14 GA, TS SLEEVE SECURE WITH (4) #12-14x3/4' SDF'S TS ROOF RAFTER CONNECTOR SLEEVE TO HEADER 3/16 MINIMUM 6' LONG, MINIMUM 14 GA, CONNECTOR SLEEVE SECURE EACH WITH (4) #12-14×3/4' SDF'S TS DOUBLE HEADER 3/16 CONNECTOR SLEEVE TO HEADER 3-15 3/16 TS COLUMN RAFTER TO CHORD DOUBLE HEADER/COLUMN CONNECTION DETAIL COLUMN/DOUBLE HEADER 11 CONNECTION DETAIL SCALE: NTS CONNECTION DETAIL 10 9 SCALE: NTS - 12 TRUSSED RAFTER CHORD, OR NON-STRUCTURAL HEADER TS ROOF RAFTER -MINIMUM 6' LONG, MINIMUM 14 GA, CONNECTOR SLEEVE SECURE EACH WITH (4) #12-14×3/4' SDF'S TS END COLUMN — OR DOOR VINDOV FRAME POST TS COLLAR TIE TS HEADER, BASE RAIL, DR WINDOW RAIL COLLAR TIE CONNECTION DETAIL 12 COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL 13 SCALE: NTS

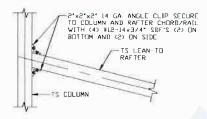
THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY	CLIENT: CARPORTSNSHEDS	SHT. 13	DWG. NO SK-3	REV. 0
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	PROJECT MCR: VSM	DATE: 1-14-21	SCALE: NTS J	DB ND 20320S
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT CHECKED BY: PDH	30'-0"x1	158 GATEHOUSE L DOBSON, NC 270 14'-0" ENCLOSED ST	17
MOODE AND AGGOGLATEG		ſ (ARPORTSNSHEDS,	



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

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 11'-0" < TO < 14'-0".

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS ≤ 11'-0"



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS ₹ 12'-0' 14

STALE: NTS

15

15A

IS ROOF RAFTER-LS' LONG IS 14 GA NEDD E-SECURE RAFTER ID NIPPLE WITH (8) #18-14×3/4' SDF'S TS EXTENSION-RAFTER MINIMUM 6" LONG, MINIMUM 14 GA, TS NIPPLE SECURE POST TO NIPPLE WITH (4) H12-14×3/4" SDF'S (TYP) TS COLUMN

2**2**2* 14 GA ANGLE CLIP SECURE TO COLUMN AND RAFTER CHORD/RAIL WITH (4) #12-14*3/4* SDF'S (2) ON BOTTOM AND (2) ON SIDE TS DOUBLE LEAN-TO RAFTER 3-12 TS COLUMN

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 12'-0' < L < 15'-0" 14A SCALE: NTS

SIDE EXTENSION RAFTER COLUMN DETAIL FOR SPANS (12'-0' SCALE: NTS

TS ROOF RAFTER 12' LONG TS 14 GA NIPPLE-SECURE RAFTER TO NIPPLE WITH (8) #12-14x3/4' SDF'S TS EXTENSION RAFTER MINIMUM 6' LONG,MINIMUM 14 GA, TS NIPPLE SECURE POST TO NIPPLE WITH (4) #12-14×3/4' SDF'S (TYP) 3-12 3-12 TS COLUMN 2'x2'x2' 16 GA ANGLE CLIP— SECURE TO COLUMN AND RAFTER WITH #12-14x3/4' SDF'S 2 ON TOP AND 2 ON SIDE

SIDE EXTENSION RAFTER/COLUMN DETAIL FOR SPAN 12'-0" < L ≤ 15'-0" SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

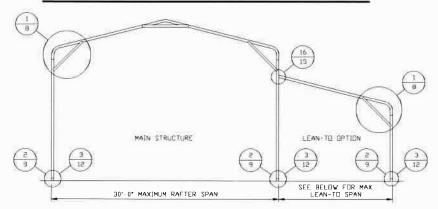
HIS	DOCUME	NT IS TH	PROPERT	Y OF HOOR	E AND AS	SOCIATES EN	GINEERING AND ERVISE USE OF
THES	DOCUME	NT IS STI	RICTLY PRO				THEREUPON MAY
	DISCHE	TO LEGAL	ACTUR				

CLIENT: CARPORTSNSHEDS	SHT. 14	DVG. ND: SK-3		REV. 0	
PROJECT MGR: VSM	DATE: 1-14-21	SCALE: NTS	<u>.m</u>	ND 20320S	
CHECKED BY: PDH	30'-0"x		UCTURE		
DRAWN BY: LT	UARPORTSNSHEDS, LLC 158 GATEHOUSE LN. DOBSON, NC 27017				

16

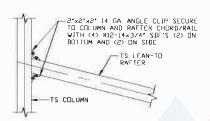
SCALE NIS

BOW EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS € 11'-0"



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

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 12'-0" < L < 15'-0" 16A

TS COLUMN

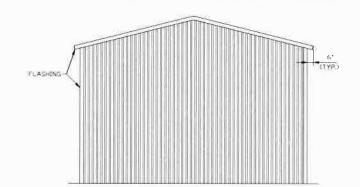
2*2*2*14 GA ANGLE CLIP SECURE TO COLUMN AND RAFTER CHORD/RAIL WITH (4) H12-14*3/4* SDF'S (2) ON BOTTOM AND (2) ON SIDE

TS DOUBLE LEAN-TO RAFTER V 3−15 3-15

NT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING	AND
THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE US	
NT IS STRICTLY PROHUNTED AND ANY INFRINGEMENT THEREUPO	4 MAY

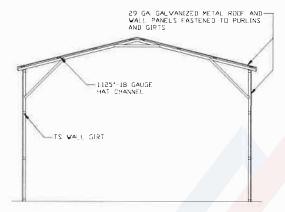
CLIENT: CARPORTSNSHEDS	SHT. 15	DWG. NO SK-3		REV. 0	
PROJECT MGR: VSM	DATE: 1-14-21	SCALE: NTS	JOB	ND 20320S	
CHECKED BY: PDH	DOBSON, NC 27017 30'-0"x14'-0" ENCLOSED STRUCTURE				
DRAWN BY: LT	158 GATEHOUSE LN				

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



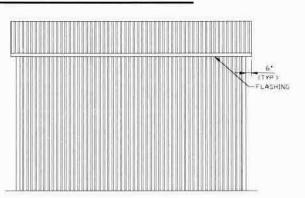
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

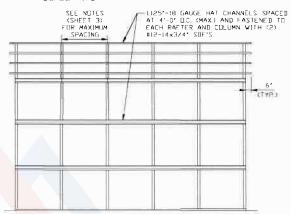


TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

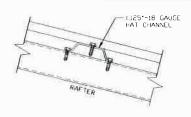


TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

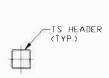
SCALE: NTS



PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)

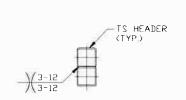
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'-0"x	,	
ENGINEERING AND CONSULTING, INC.	DOBSON, NC 27017			27017
MOORE AND ASSOCIATES	DRAWN BY: LT	CARPORTSNSHEDS, LLC 158 GATEHOUSE LN.		

SIDE WALL HEADER OPTIONS



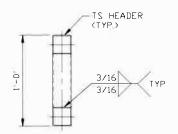
HEADER DETAIL FOR SIDE WALL DOOR OPENINGS < 7'-0"

SCALE: NTS



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 7'-0' < LENGTH \(\) 11'-0'

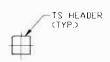
SCALE: NTS



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 11'-0' < LENGTH \(\) 16'-0'

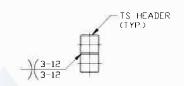
SCALE: NTS

END WALL HEADER OPTIONS



HEADER DETAIL FOR END WALL DOOR OPENINGS ≤ 13'-0"

SCALE: NTS



HEADER DETAIL FOR END WALL DOOR OPENINGS 13'-0' < LENGTH \(\) 16'-0'

SCALE: NTS

CARPORTSOSHEDS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRUCTLY PROMOBITED AND ANY INFRONGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

CHECKED BY: PDH PREJECT NGR: WSN	DOBSON, NC 27017 30'-0"x14'-0" ENCLOSED STRUCTURE			
CLIENT: CARPORTSNSHEDS		DVG. NO SK-3		