

STANDARD CARPORT DETAILS 12 ft to 24 ft SPAN



CAROLINA CARPORTS INC.
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**TABLE 1
BOW/RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS**

WIND EXPOSURE CATEGORY	ULTIMATE WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM GROUND SNOW LOAD (PSF)	MAXIMUM POST/RAFTER SPACING (FEET)	AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS OR GIRTS (INCHES)	
					METAL PANELS	SPACING
B OR C	105 TO 140	85 TO 112	35	5.0	29 Gauge	8
			65	4.0		

NOTES: 1. Specifications applicable to 29 gauge metal panels fastened directly to 12 or 14 gauge steel tube bow frames.
2. Fasteners consist of #12 x 3" self-drilling screws with control seal washers.
3. Specifications applicable only for mean roof height of 24 feet or less and roof slopes of 7 to 27 degrees (1.5:12 to 6:12 pitch). Spacing requirements for other roof heights and/or slopes may vary.

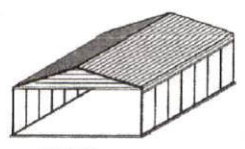
**TABLE 1 (HIGH WIND REGION)
BOW/RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS**

WIND EXPOSURE CATEGORY	ULTIMATE WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM GROUND SNOW LOAD (PSF)	MAXIMUM POST/RAFTER SPACING (FEET)	AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS OR GIRTS (INCHES)	
					METAL PANELS	SPACING
B OR C	141 TO 150	113 TO 121	30	5.0	29 Gauge	8
B, C OR D	151 TO 170	122 TO 138	20	4.0	26 Gauge	6

NOTES: 1. Specifications applicable to 29 gauge and 26 gauge metal panels fastened directly to 12 or 14 gauge steel tube bow frames.
2. Fasteners consist of #12 x 3" self-drilling screws with control seal washer.
3. Specifications applicable only for mean roof height of 24 feet or less and roof slopes of 7 to 27 degrees (1.5:12 to 6:12 pitch). Spacing requirements for other roof heights and/or slopes may vary.

GENERAL NOTES:
THESE PLANS PERTAIN ONLY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM (MWFRS), COMPONENTS AND CLADDING, AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING, BUT NOT LIMITED TO, PLUMBING, ELECTRICAL, INGRESS/EGRESS, PROPERTY SET-BACKS, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE RESPONSIBILITY OF OTHERS.
THESE STRUCTURES ARE DESIGNED AS UTILITY/STORAGE BUILDINGS CAPABLE OF SUPPORTING THE DEAD LOAD OF THE STRUCTURE AND APPLICABLE LIVE AND WIND LOADS. IMPROVEMENTS NOT SPECIFICALLY ADDRESSED HEREIN, WHICH EXERT ADDITIONAL LOADS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK. CAROLINA CARPORTS SHALL NOT BE RESPONSIBLE FOR STRUCTURAL DAMAGE OR FAILURE DUE TO THE APPLICATION OF ADDITIONAL LOADS.
ALL STEEL TUBING SHALL BE 55 KSI STEEL OR BETTER. ALL METAL PANELS SHALL BE 80 KSI STEEL OR BETTER.
FASTEN METAL ROOF AND WALL PANELS TO FRAMING WITH #12" x 3" SELF DRILLING FASTENERS WITH CONTROL SEAL WASHERS AT AN AVERAGE SPACING OF 8" FOR 29 GAUGE PANELS AND 6" FOR 26 GAUGE PANELS.
ALL FIELD CONNECTIONS SHALL BE #12" x 3" SELF DRILLING FASTENERS (SDF) UNLESS NOTED OTHERWISE.
ALL WELDED CONNECTIONS SHALL BE SHOP WELDED UNLESS NOTED OTHERWISE.
GROUND ANCHOR REQUIREMENTS: INSTALL HELICAL ANCHORS WITHIN 6" OF EACH CORNER POST AND AT A MAXIMUM SPACING OF 25' ALONG THE BASE RAIL. INSTALL GROUND RODS (#4 THREADED REBAR) BETWEEN THE HELICAL ANCHORS AT A MAXIMUM SPACING OF 5' AND A MINIMUM SPACING OF 4' ALONG THE BASE RAIL. HELICAL ANCHORS AND GROUND RODS ARE NOT REQUIRED FOR CONCRETE FOOTING AND/OR CONCRETE SLAB CONSTRUCTION.
CONCRETE EXPANSION ANCHORS SHALL BE ITW RAMSET/RED-HEAD TRIBOLT WEDGE ANCHOR, WEJ-IT ANKR-ITTE MODEL AT1252, OR SLEEVE ANCHOR MODEL HSA 1260, OR APPROVED EQUAL.
POST/RAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS AND HEADERS.
GALVANIZATION: METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

NOTE: USE \odot 2 1/2" x 2 1/2" 14 Gg.
 \odot 2 1/4" x 2 1/4" 12 Gg.
STEEL TUBE FOR ALL FRAME AND BASE RAIL MEMBERS UNLESS OTHERWISE SHOWN.



CONCRETE FOUNDATION DESIGN RECOMMENDATIONS:
CONCRETE SLAB AND FOUNDATION ARE BY OTHERS. COORDINATE CONCRETE STRENGTH AND FOUNDATION DEPTH REQUIREMENTS WITH THE LOCAL BUILDING CODE OFFICIALS. THE OWNER IS RESPONSIBLE FOR PROVIDING A SUITABLE FOUNDATION FOR THE PROPOSED STRUCTURE.
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS OR AS REQUIRED BY LOCAL BUILDING CODE. THE USE OF HIGHER STRENGTH CONCRETE IS ACCEPTABLE.
COVER OVER REINFORCING STEEL: MINIMUM CONCRETE OVER REINFORCING BARS SHALL BE 3 INCHES WHERE 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 REINFORCING STEEL SHALL BE MINIMUM GRADE 40.

METAL CARPORT INSTALLATION PLANS AND DETAILS AND FRAMING AND FASTENER SPECIFICATIONS

CAROLINA CARPORTS, INC.
187 Cardinal Ridge Trail
DOBSON, NORTH CAROLINA 27017

THE OWNER IS RESPONSIBLE FOR OBTAINING A BUILDING PERMIT, IF NEEDED, AND FOR COMPLYING WITH ALL LOCAL BUILDING CODE REQUIREMENTS.

THIS IS TO CERTIFY THAT THE CALCULATIONS AND SPECIFICATIONS HEREIN HAVE BEEN PREPARED BY THE UNDERSIGNED PROFESSIONAL ENGINEER, AND ARE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2009, 2012, 2015 & 2018 INTERNATIONAL BUILDING CODES AND THE 2018 NORTH CAROLINA BUILDING CODE.

BUILDING CODE INFORMATION		DESIGN LOADS	
OCCUPANCY CATEGORY	I	MIN. DEAD LOAD	5 PSF
USE GROUP	U	MIN. FLOOR LIVE LOAD	100 PSF
CONSTRUCTION TYPE	3B	MIN. ROOF LIVE LOAD	20 PSF
		MIN. GROUND SNOW LOAD	
		MAX. GROUND SNOW LOAD	
		MIN. ULTIMATE WIND SPEED	SEE TABLE 1
		MAX. ULTIMATE WIND SPEED	
		EXPOSURE CATEGORY	
		SEISMIC RESPONSE COEFFICIENT	0.500

IMPORTANCE FACTORS

WIND	1.0
SNOW	0.8
EARTHQUAKE	1.0

These plans have been provided for the purpose of obtaining a building permit for:

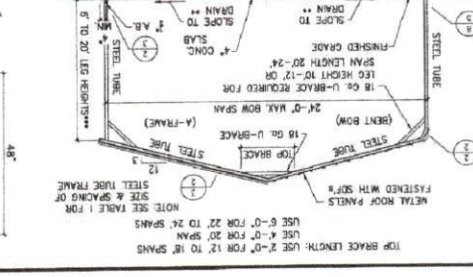
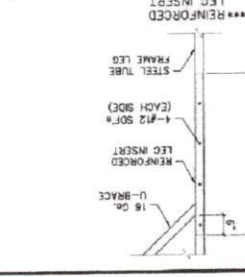
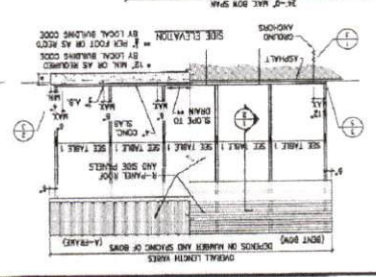
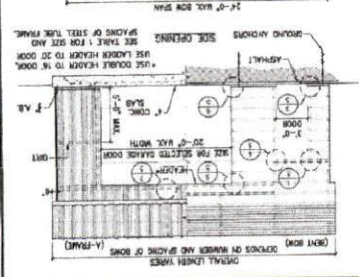
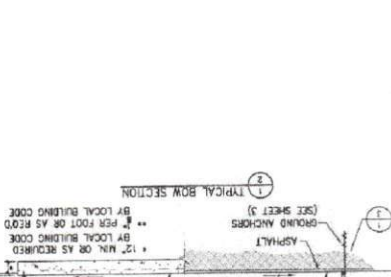
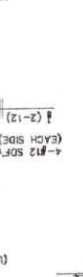
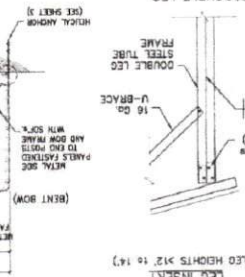
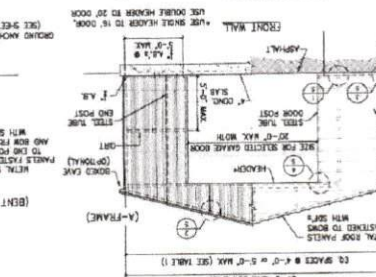
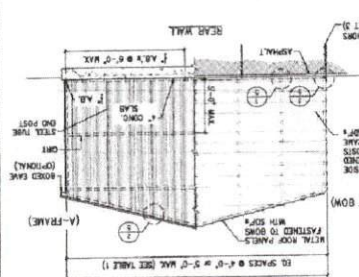
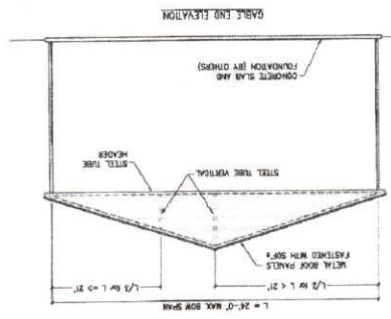
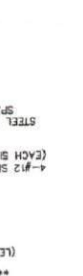
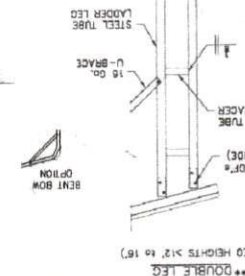
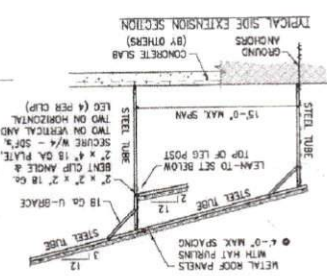
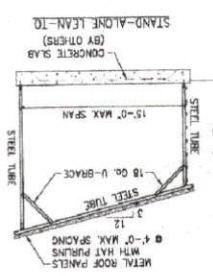
Name: **Timmy Wilson**
Address: **1344 Red Hill Church Rd**
City: **Dunn** State: **NC**
Zip: **28334**

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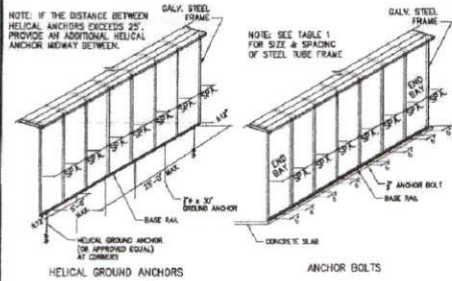
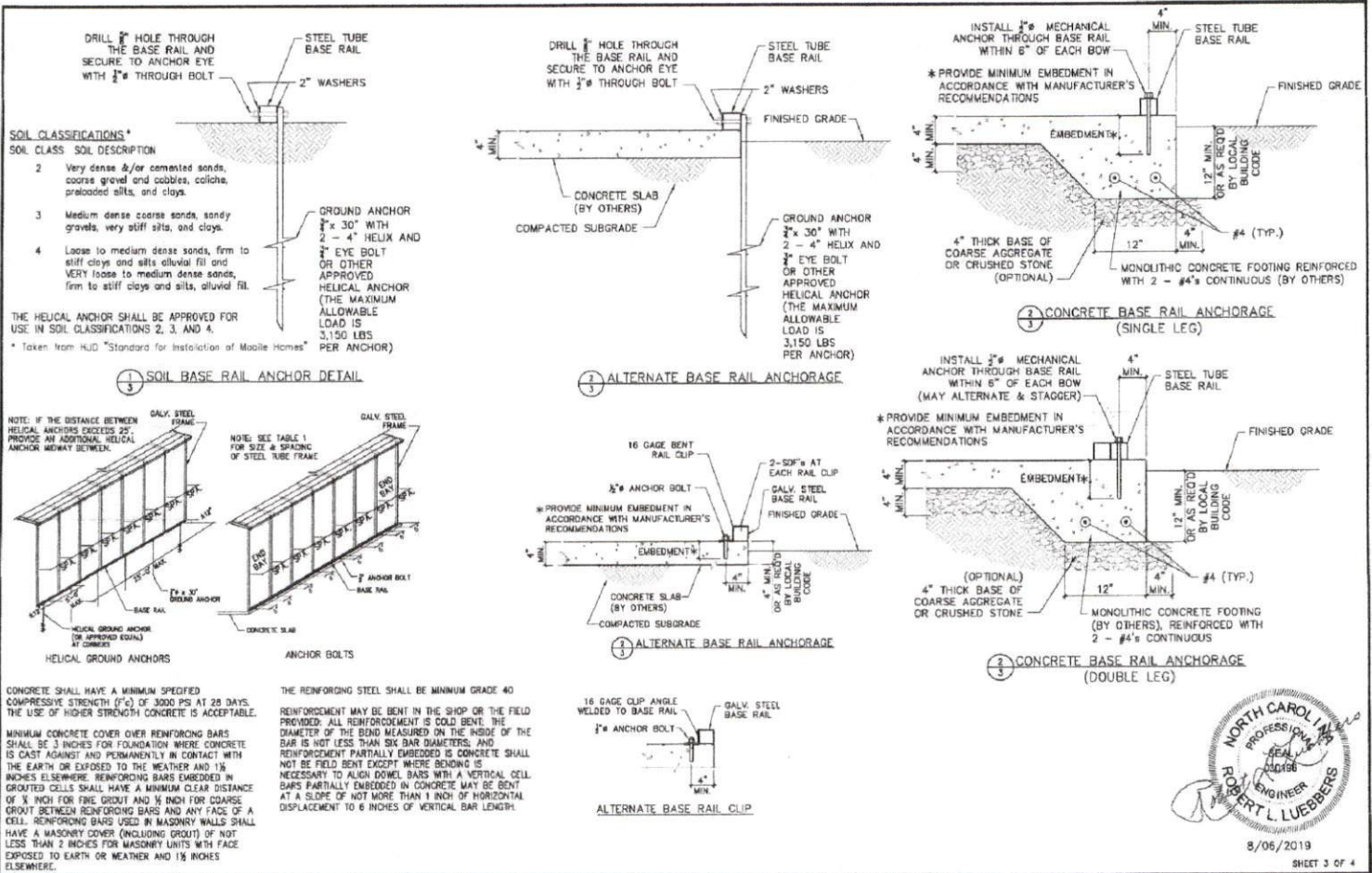




8/06/2019



TOP BRACE LENGTH: USE 2'-0" FOR 12' TO 18' SPANS
 USE 4'-0" FOR 20' TO 24' SPANS
 USE 6'-0" FOR 22' TO 24' SPANS
 NOTE: SEE TABLE FOR SITE & SPACING OF METAL ROOF PANELS
 FASTENED WITH SOFS
 (A-FRAME)
 STEEL TUBE
 18 GA. U-BRACE
 24'-0" MAX BOW SPAN
 FINISHED GRADE
 SLOPE TO DRAIN **
 + CONC. SLAB
 ** PER FOOT OR AS REQ'D BY LOCAL BUILDING CODE
 ** PER FOOT OR AS REQ'D BY LOCAL BUILDING CODE
 ASPHALT
 GROUND ANCHORS
 (SEE SHEET 3)
 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)

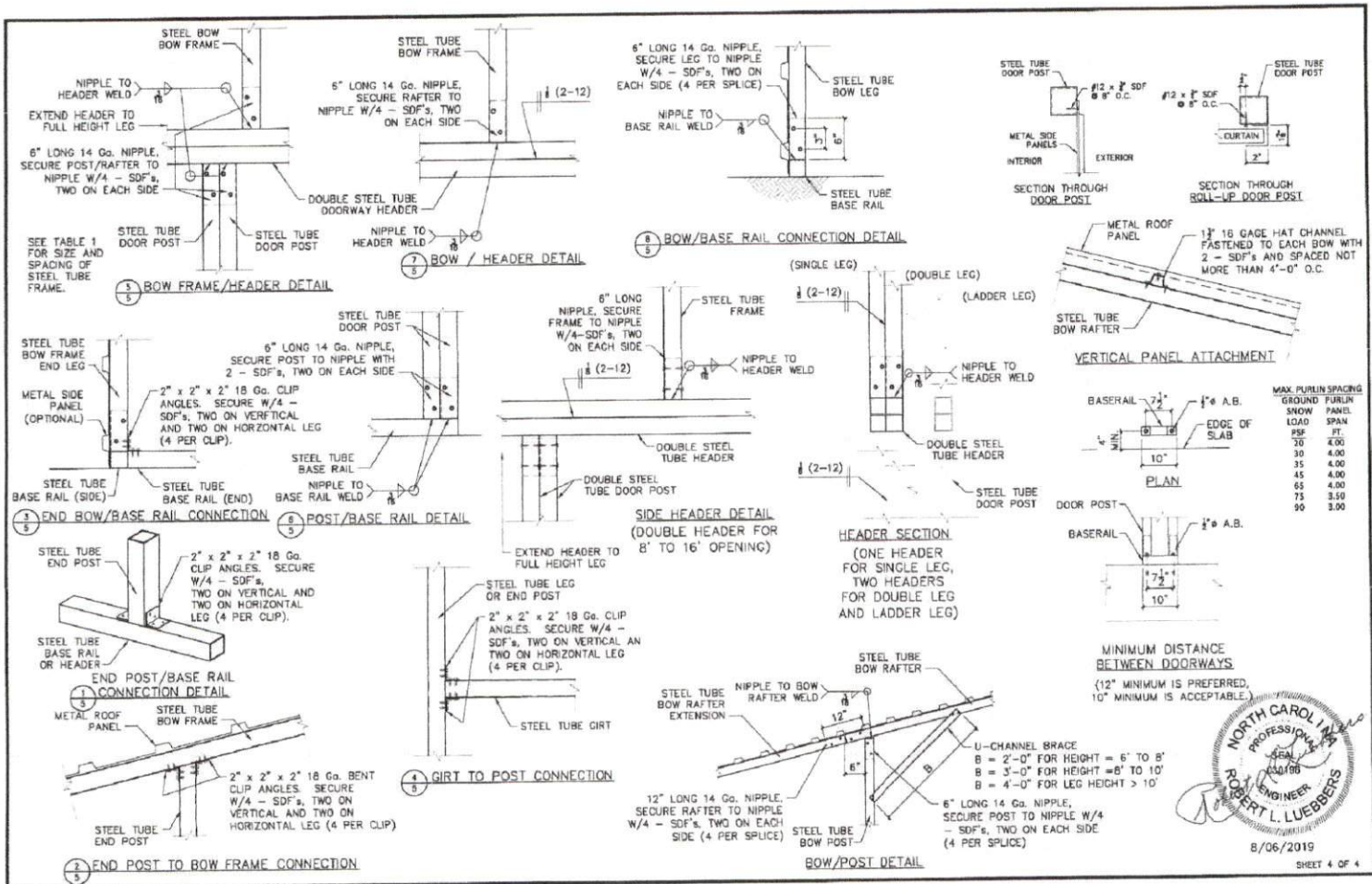


CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH (f'c) OF 3000 PSI AT 28 DAYS. THE USE OF HIGHER STRENGTH CONCRETE IS ACCEPTABLE.

MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE 3 INCHES FOR FOUNDATION WHERE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE WEATHER AND 1 1/2 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 1/2 INCH FOR FINE GROUT AND 1/4 INCH FOR COARSE GROUT BETWEEN REINFORCING BARS AND ANY FACE OF A CELL. REINFORCING BARS USED IN MASONRY WALLS SHALL HAVE A MASONRY COVER (INCLUDING GROUT) OF NOT LESS THAN 2 INCHES FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER AND 1 1/2 INCHES ELSEWHERE.

THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40 REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED: ALL REINFORCEMENT IS COLD BENT; THE DIAMETER OF THE BEND MEASURED ON THE INSIDE OF THE BAR IS NOT LESS THAN SIX BAR DIAMETERS; AND REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT EXCEPT WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL. BARS PARTIALLY EMBEDDED IN CONCRETE MAY BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.





Fwd: Carolina Carports - Timmy Wilson

From: Giovanni Gonzalez (giovanni.g@carolinacarports.com)
To: littleriverlillington@yahoo.com; slick1957@yahoo.com
Date: Thursday, October 7, 2021, 03:02 PM EDT

----- Forwarded message -----
From: **Giovanni Gonzalez** <giovanni.g@carolinacarports.com>
Date: Mon, Oct 4, 2021 at 1:55 PM
Subject: Carolina Carports - Timmy Wilson
To: <slick1957@yahoo.com>

Attached are the generic plans for your reference.

If your building is going to be installed on concrete, please be aware, these plans show a minimum of 4" anchor edge distance as well as 12" footer around the perimeter of the building (sheet 3 of 4) . The alternate base rail anchorage options are only to be used when you have an existing pad or the pad has been poured incorrectly. Additional charges do apply.

Once the site is ready for installation, please call our scheduling department at 1-800-670-4262 and ask for the scheduling dept for your state.

Thank you for choosing Carolina Carports!

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Giovanni Gonzalez
Permitting Dept
1-800-670-4262
ext 2095

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Giovanni Gonzalez
Permitting Dept
1-800-670-4262
ext 2095

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