TABLE 1 I/RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS

AVERAGE FASTENER SPACING MAXIMUM MAXIMUM 111 TIMATE NOMINAL ON-CENTERS ALONG RAFTERS OR ND GROUND OST/RAFTER WIND SPEED WIND SPEED SURE PURLINS, AND POSTS OR GIRTS SNOW LOAD SPACING (MPH) (MPH) CORY (INCHES) (PSF) (FEET) METAL PANELS SPACING 35 5.0 105 TO 140 85 TO 112 29 Gauge DR C 8 65 4.0

- ES: 1, Specifications applicable to 29 gauge metal panels fastened directly to 12 or 14 gauge steel tube bow frames.
 - 2. Fosteners consist of #12 x 2" self-drilling screws with control seal washers.
 - 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) I/RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS

ND SURE GORY	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
DR C	141 TO 150	113 TO 121	30	5.0	29 Gauge	8
OR D	151 TO 170	122 TO 136	20	4.0	26 Gauge	6

- 'ES: 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 $\#12 \times \frac{3}{2}$ " 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.

RAL NOTES:

PLANS PERTAIN ONLY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM (MWFRS), COMPONENTS LADDING, AND BASE RAIL ANCHORAGE. OTHER DESION ISSUES, INCLUDING, BUT OT LIMITED TO, PLUMBING, ELECTRICAL, SYEGRESS, PROPERTY SET—BACKS, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE RESPONSIBILITY OF OTHERS.

STRUCTURES ARE DESIGNED AS UTILITY/STORAGE BUILDINGS CAPABLE OF SUPPORTING THE DEAD LOAD OF THE TURE AND APPLICABLE LIVE AND WIND LOADS. IMPROVEDENTS NOT SPECIFICALLY ADDRESSED HEREIN, WHICH EXERT INAL LOADS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK. CAROLINA CARPORTS SHALL NOT BE RESPONSIBLE RUCTURAL DAMAGE OR FAILURE DUE TO THE APPLICATION OF ADDITIONAL LOADS.

EEL TUBING SHALL BE 55 KSI STEEL OR BETTER. ALL METAL PANELS SHALL BE 80 KSI STEEL OR BETTER.

I METAL ROOF AND WALL PANELS TO FRAMING WITH #12" x #" SELF DRILLING FASTENERS WITH CONTROL SEAL RS AT AN AVERAGE SPACING OF 8" FOR 29 GAUGE PANELS AND 6" FOR 26 GAUGE PANELS.

ELD CONNECTIONS SHALL BE #12 x 2" SELF DRILLING FASTENERS (SDF) UNLESS NOTED OTHERWISE.

ELDED CONNECTIONS SHALL BE SHOP WELDED UNLESS NOTED OTHERWISE.

D ANCHOR REQUIREMENTS: INSTALL HELICAL ANCHORS WITHIN 5" OF EACH CORNER POST AND AT A MAXIMUM SPACING ALONG THE BASE RAIL. INSTALL GROUND RODS (\$4 THREADED REBAR) BETWEEN THE HELICAL ANCHORS AT A MINIMUM SPACING OF 5" AND A MINIMUM SPACING OF 6" ALONG THE BASE RAIL. HELICAL ANCHORS AND GROUND RODS OT REQUIRED FOR CONCRETE FOOTING AND/OR CONCRETE SLAB CONSTRUCTION.

ETE EXPANSION ANCHORS SHALL BE ITW RAMSET/REDHEAD TRUBOLT WEDGE ANCHOR, WEJ-IT ANKR-TITE MODEL 1, OR SLEEVE ANCHOR MODEL HSA 1260, OR APPROVED EQUAL.

PAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS AND HEADERS.

IIZATION: METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE ER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS ALLS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STIANLESS STEEL OR HOT DIPPED GALVANIZED.

STANDARD CARPORT DETAILS 12 ft to 24 ft SPAN



CAROLINA CARPORTS II

P.O. BOX 1263 DOBSON, NC 27017 TOLL FREE 1-800-670-4262 LOCAL 336-367-6400 FAX 336-367-6410

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NOTE: USE \bigcirc 2½" × 2½" 14 Ga. 2½" × 2½" 12 Ga.

STEEL TUBE FOR ALL FRAME AND BASE RAIL MEMBERS UNLESS OTHERWISE SHOWN.







SOMETRIC

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 13 ELSEWHERE.

REINFORCING STEEL: THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40.

METAL CARPORT INSTALLATION PLANS AND DETA 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 COMPLYIN 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 2009, 2012, 2015 & 2018 INTERNATIONAL BUILDING CODES AND TH 2018 NORTH CAROLINA BUILDING CODE.

BUILDING CODE INFOR	MATION
OCCUPANCY CATEGORY	- 1
USE GROUP	U
CONSTRUCTION TYPE	5B

IMPORTANCE FACTO	ORS
WIND Iw	1.0
SNOW is	0.8
EARTHQUAKE le	1.0

	DESIGN LOADS
5 P	MIN. DEAD LOAD
100	MIN. FLOOR LIVE LOAD
20 F	MIN. ROOF LIVE LOAD
	MIN. GROUND SNOW LOAD
	MAX. GROUND SNOW LOAD
SE	MIN. ULTIMATE WIND SPEED
	MAX. ULTIMATE WIND SPEED
	EXPOSURE CATEGORY
0.5	SEISMIC RESPONSE COEFFICIENT

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

Name:

Address:

Robert Bellamy 375 Word Church Lane

City:

Lillington

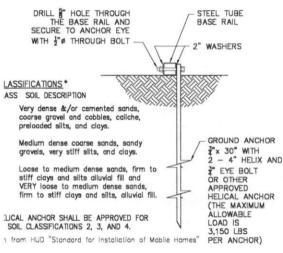
State: NC Zip: 27546

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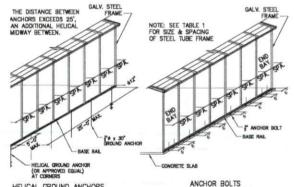


8/06/2019

SHEET 1



SOIL BASE RAIL ANCHOR DETAIL



HELICAL GROUND ANCHORS

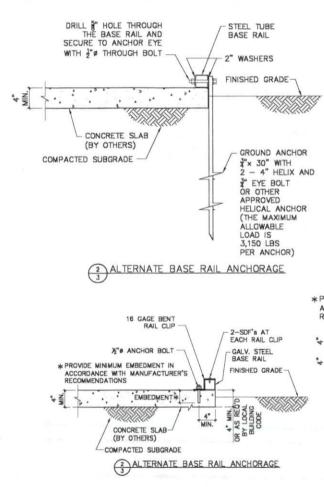
TE SHALL HAVE A MINIMUM SPECIFIED SSIVE STRENGTH (F'c) OF 3000 PSI AT 28 DAYS.

OF HIGHER STRENGTH CONCRETE IS ACCEPTABLE.

CONCRETE COVER OVER REINFORCING BARS E 3 INCHES FOR FOUNDATION WHERE CONCRETE AGAINST AND PERMANENTLY IN CONTACT WITH TH OR EXPOSED TO THE WEATHER AND 11/2 ELSEWHERE. REINFORCING BARS EMBEDDED IN) CELLS SHALL HAVE A MINIMUM CLEAR DISTANCE CH FOR FINE GROUT AND 1/2 INCH FOR COARSE JETWEEN REINFORCING BARS AND ANY FACE OF A INFORCING BARS USED IN MASONRY WALLS SHALL MASONRY COVER (INCLUDING GROUT) OF NOT AN 2 INCHES FOR MASONRY UNITS WITH FACE I TO EARTH OR WEATHER AND 11/2 INCHES

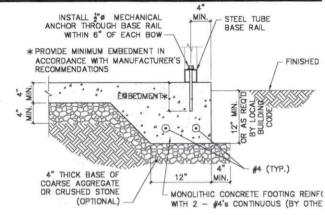
THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED: ALL REINFORCDEMENT IS COLD BENT; THE DIAMETER OF THE BEND MEASURED ON THE INSIDE OF THE BAR IS NOT LESS THAN SIX BAR DIAMFTERS: AND REINFORCEMENT PARTIALLY EMBEDDED IS 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.

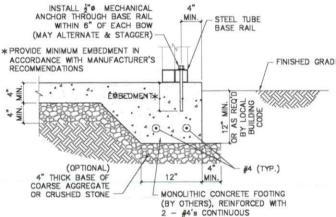


16 GAGE CLIP ANGLE GALV. STEEL WELDED TO BASE RAIL " ANCHOR BOLT

ALTERNATE BASE RAIL CLIP



2 CONCRETE BASE RAIL ANCHORAGE (SINGLE LEG)



2 CONCRETE BASE RAIL ANCHORAGE (DOUBLE LEG)



8/06/2019

SHEET 3

