

METAL CARPORT INSTALLATION PLANS AND DETAILS AND FRAMING AND FASTENER SPECIFICATIONS

FOR CONSTRUCTION IN THE STATE OF FLORIDA

PREPARED FOR: CAROLINA CARPORTS, INC. P.O. BOX 1263 DOBSON, NORTH CAROLINA 27017

PREPARED BY:

BECHTOL ENGINEERING AND TESTING, INC.

605 WEST NEW YORK AVENUE

DELAND, FLORIDA 32720

Certificate of Authorization No. 00005492



WINDOW AND DOOR NOTE

EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND BEAR AN AAMA OR WDMA OR OTHER APPROVED LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION:

ANSI/AAMA/NWWDA 101/IS2 2/97
THE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 330, STANDARD TEST
METHODS FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND
DOORS BY UNIFORM STATIC AIR PRESSURE.

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 SECTION 1609 OF THE 2010 FLORIDA BUILDING CODE. THE PLANS ARE VALID UNTIL THE NEXT REVISION OF THE FLORIDA BUILDING CODE.

BECHT OF ENGINEERING AND TOSTING, INC. 605 DE SADEN YORK AVENUES BECHT OF AUTHORIZATION NO. 5490

Thomas actal representation of the Florida Management of Authorization No. 5490

Thomas actal representation of the Florida Management of the Provider of th

CAROLINA CARPORTS, INC.



FELD:	DATE: 03-16-12
DRAWNE RR	SOME NTS
CHECKED: JP	PROJ. NO.: 06175
MOROVEE: TB	SHEET 1 OF 4

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

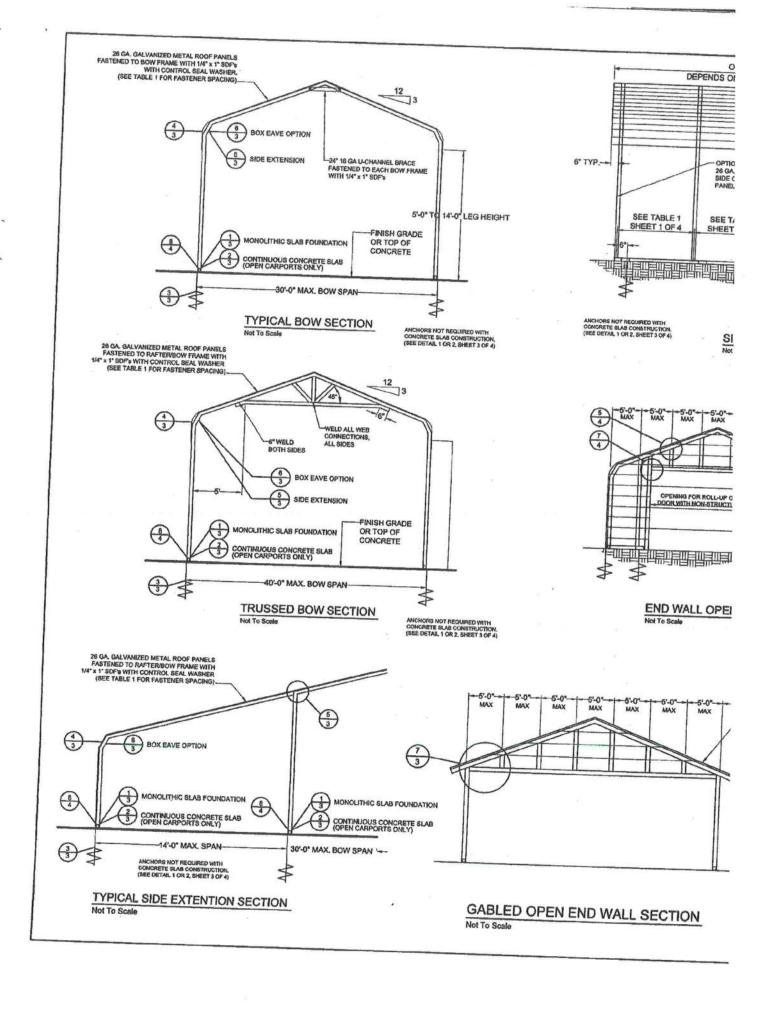
	WIND	ULTIMATE	MAXIMUM BOW AND END	ON-CENTERS A PURLINS	STENER SPACING LONG RAFTERS OF , AND POSTS CHES)
RISK CATEGORY	EXPOSURE CATEGORY	WIND SPEED (MPH)	EED POST SPACING INTERIOR	END BOWS	
l or II	r II B, C, or D 115 TO 150 5.0	5.0	6	6	
-101010	151 TO 180	4.0	6	6	

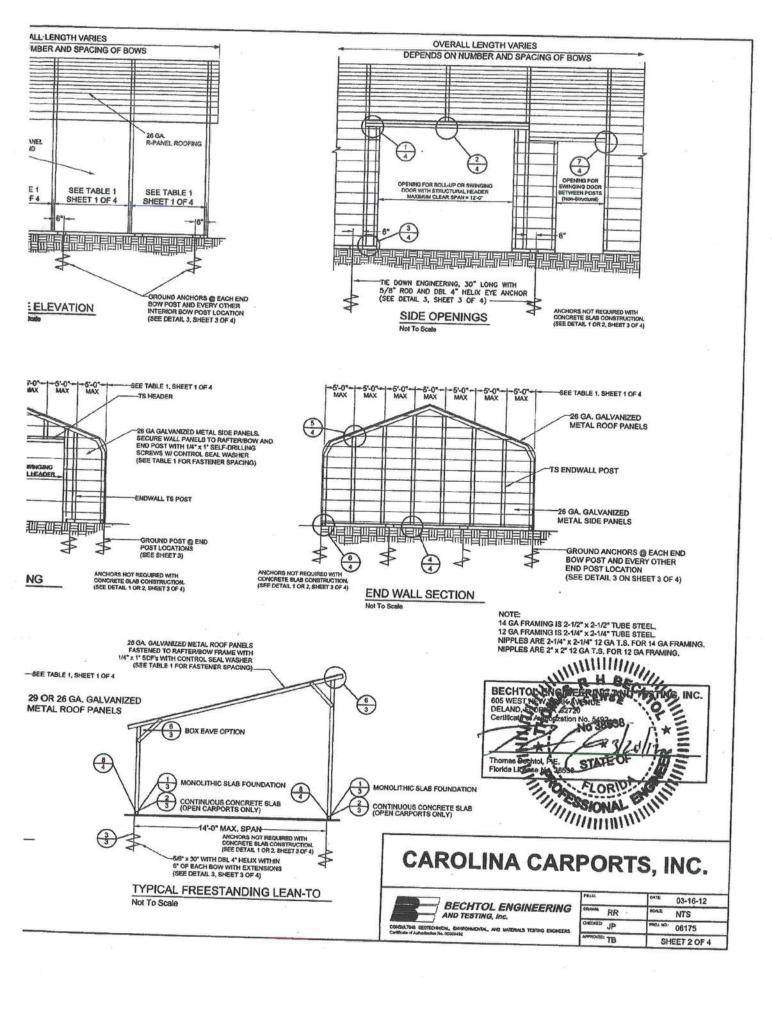
- 1. Specifications applicable to 26 gauge metal panels fastened directly to 12 or 14 gauge steel tube bow frames. 2. Fasteners consist of 1/4"-14X1" self-drilling screws with control seal washer.
- 3. Specifications applicable only for mean roof height of 20 feet or less, and roof slopes of 14° (3:12 pitch). Spacing requirements for other roof heights and/or slopes may vary.
- 4. Ground anchor requirements are 1 @ each corner and one every other interior bow/rafter post location, at a maximum of 10' O.C., and both sides of openings where base rail is absent.
- 5. Ground anchors are not required with concrete slab construction.

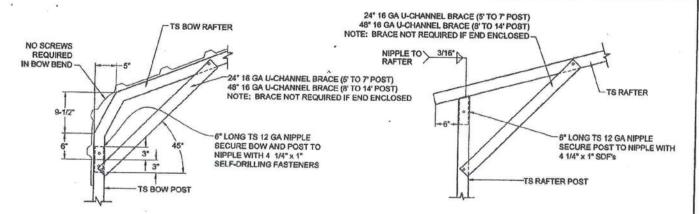
	APPROVED PROD	OUCTS LIST	
PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE
STRUCTURAL COMPONENTS	ROOF DECK	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6596-R1 10/14/08
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6702-R1 10/14/08
EXTERIOR DOORS	SWINGING	ELIXIR INDUSTRIES GA. Model 402-14	FL1722-R3
EXTERIOR DOORS	ROLL-UP	ASTA INDUSTRIES INC. Model 203	FL8888-R2 12/09/09
WINDOWS	SINGLE HUNG	PHILLIPS PRODUCTS, INC. Model 23V	FL6228-R1 10/11/06

GENERAL NOTES:

- 1. ALL STEEL TUBING SHALL BE 50 KSI STEEL.
- 2. FASTEN METAL ROOF AND WALL PANELS TO FRAMING WITH 1/4" x 1" SELF DRILLING FASTENERS WITH CONTROL SEAL WASHER @ 6" O.C. AVERAGE. (SEE TABLE 1 FOR FASTENER SPACING SPECIFICATIONS)
- 3. ALL FIELD CONNECTIONS SHALL BE 1/4" x 1" SELF DRILLING SCREWS.
- 4. ALL SHOP CONNECTIONS SHALL BE WELDED.



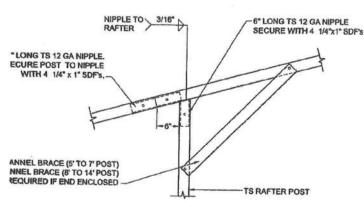




4 BOW/CORNER POST DETAIL

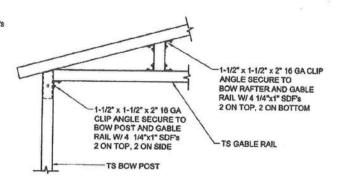
Not To Scale

BOX EAVE RAFTER/
CORNER POST DETAIL
Not To Scale



SIDE EXTENSION RAFTER/
CORNER POST DETAIL

Not To Scale



GABLE RAIL TO RAFTER POST
CONNECTION DETAIL
Not To Sonia

NOTE:

1-1/2" 18 GAUGE FURRING CHANNEL FASTENED
TO EACH RAFTER WITH (2) 1/4" x 1" SELF-DRILLING
FASTENER SPACED NOT MORE THAN 48" O.C.

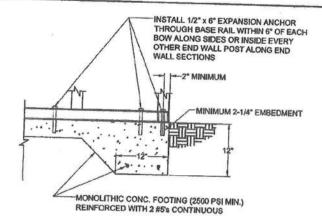
26 GA. METAL ROOF PANEL
TS RAFTER

ROOF PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
Not To Scale

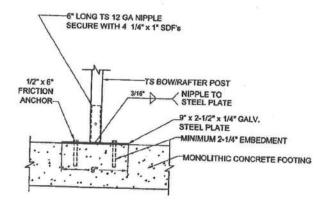
CAROLINA CARPORTS, INC.



FRLD:	OATE 03-16-12
DAMME RR	NTS
ORCHED JP	PROLING: 06175
APPROVED: TB	SHEET 3 OF 4







ALTERNATE POST TO CONCRETE FOUNDATION CONNECTION DETAIL

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.

COVER OVER REINFORCING STEEL
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFROCING BARS SHALL BE:
3 INCHES IN FOUNDATIONS WHIERE THE CONCRETE IS CAST AGAINST AND
FERMANIENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE BARTH OR
WEATHER AND 1 1/2 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN
WEATHER AND 1 1/2 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN
GROUTED CLUE SHALL HAVE A MINIMUM CLEAR DISTANCE OF 1/4 INCH FOR FINE
GROUTO TO 1/2 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 1 1/2 INCHES FOR MASONRY
UNITS MOT EXPOSED TO EARTH OR WEATHER.

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

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.

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

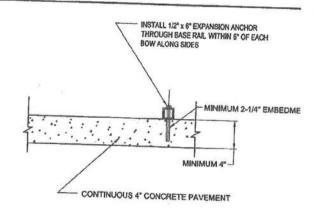
1. ALL REINFORCEMENT IS BENT COLD,

2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS AND

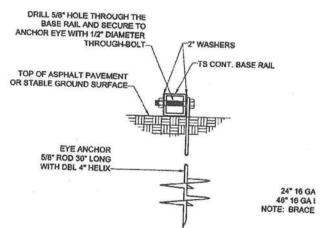
2. DEBUGDORGEMENT PARTIALLY EMBERDED BY COMPUTED SHALL MOY BE SEED DEBUT.

3. REINFORGEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

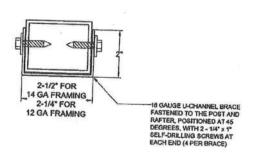
EXCEPTION; WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.



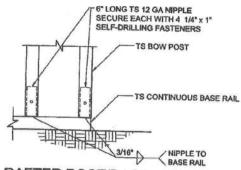
CONCRETE BASE RAIL ANCHORAGE Not To Scale (OPTIONAL - OPEN CARPORTS ONLY)





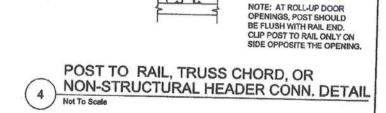






RAFTER POST/BASE BASE RAIL CONNECTION DETAIL

Not To Scale



2"x2"x2" 16 GA ANGLE CLIP

4-1/4"x1" SDF's

SECURE TO POST (EACH SIDE)

AND RAFTER CHORD/RAIL WITH

2 ON BOTTOM AND 2 ON SIDE

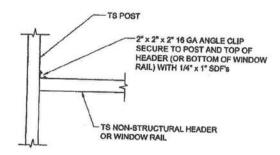
TS TRUSSED RAFTER CHORD. OR NON-STRUCTURAL HEADER

TS BASEWINDOW RAIL OR

NON-STRUCTURAL HEADER

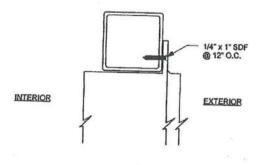
TS END POST OR DOOR/

WINDOW FRAME POST

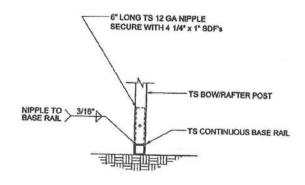


NON-STRUCTURAL HEADERWINDOW RAIL TO POST CONNECTION DETAIL

Not To Scale

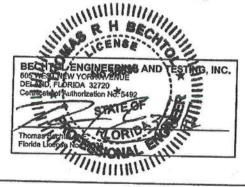


SECTION Not To Scale



POST/BASE RAIL CONN. DETAIL

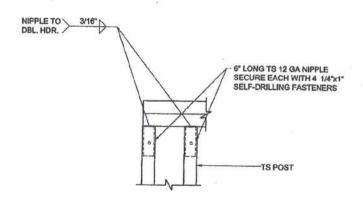
NO IE: 14 GA FRAMING IS 2-1/2" x 2-1/2" TUBE STEEL. 12 GA FRAMING IS 2-1/4" x 2-1/4" TUBE STEEL. NIPPLES ARE 2-1/4" x 2-1/4" 12 GA T.S. FOR 14 GA FRAMING. NIPPLES ARE 2" x 2" 12 GA T.S. FOR 12 GA FRAMING.

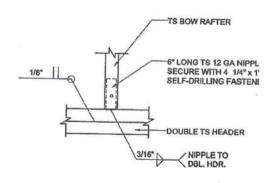


CAROLINA CARPORTS, INC.



MILD	O3-16-12
DRANK RR	NTS NTS
CHACKER JB	^{РИОД НО.:} 06175
AMOUNT TB	SHEET 4 OF 4

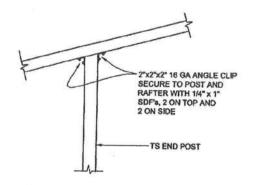




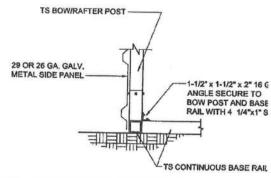
1 RAFTER POST/DBL. HEADER DETAIL
Not To Soale

2 RAFTER POST/HEADER DETAIL

Not To Scale

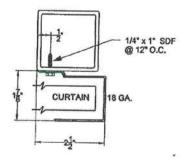


5 END POST/RAFTER CONN. DETAIL



6 END POST/BASE RAIL CONN.

Not To Scale



SECTION THROUGH ROLL UP DOOR HEADER

Not To Scale CURTAIN: 26 GA. galvanized steel with baked on epoxy primer & polyester top coat.

