

FBC APPROVED PRODUCTS LIST

PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL NO. & DATE	EXPIRATION DATE	MAXIMUM ALLOWABLE WIND SPEED		
					OPEN	ENCLOSED	PARTIALLY ENCLOSED
STRUCTURAL COMPONENTS	ROOF DECK	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6556 1-R6 12/11/20	04/05/27	140	160	180
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6702 1-R6 12/11/20	03/14/27	140	160	180
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge Duct Lap Wall Panel	FL6702 3-R6 12/11/20	03/14/27	N/A	164	143
STRUCTURAL COMPONENTS	FLOOD VENT	CRAMM SPACE DOOR SYSTEMS, INC. 16x6 Flood Vent	FL2622 1-R1 02/25/21	03/30/22	N/A	N/A	N/A
EXTERIOR DOORS	SWINGING	ELUXR DOOR AND METAL COMPANY Series 402-14	FL1798 3-R2 02/25/21	04/26/25	N/A	139	139
EXTERIOR DOORS	SWINGING	ELUXR DOOR AND METAL COMPANY Series 407	FL1798 3-R2 02/25/21	03/19/25	N/A	174	155
EXTERIOR DOORS	ROLL-UP	ASTA INDUSTRIES INC. Model 203 (12 Max. Width)	FL6866 1-R6 02/09/21	12/01/23	N/A	160	174
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Steel Door (12 Max. Width)	FL16906 1-R5 12/11/20	04/05/27	N/A	179	154
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Steel Door - (6" Max. Width)	FL16806 3-R5 12/11/20	04/05/27	N/A	160	180
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Steel Door - (6" Max. Width)	FL16806 3-R5 12/11/20	04/05/27	N/A	155	133
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Steel Door - (10 Max. Width)	FL16806 4-R6 12/11/20	04/05/27	N/A	160	172
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Steel Door - (10 Max. Width)	FL1234 4-R6 11/11/20	10/17/23	N/A	180	178

NOTES:
1. DOORS AND WINDOWS SHOWN HAVE BEEN SUBMITTED FOR EFFICIENCY PRODUCT LINE ANCHOR MODEL 6, PROVIDED THE FOLLOWING CONDITIONS ARE MET:
A. PRODUCT SHALL HAVE A MINIMUM 100 PSI PRODUCT STRENGTH.
B. COMPONENTS ARE SHOWN LISTED ACCORDING TO MANUFACTURER'S INSTALLATION REQUIREMENTS.
2. FLOORING CONNECTIONS FOR DOOR AND WINDOW FRAME TO BE IN ACCORDANCE WITH FLORIDA BUILDING CODE, CHAPTER 6, PART 1, BASED ON 100 MPH WIND SPEED.
3. FLOORING CONNECTIONS FOR DOOR AND WINDOW FRAME TO BE IN ACCORDANCE WITH FLORIDA BUILDING CODE, CHAPTER 6, PART 1, BASED ON 100 MPH WIND SPEED.
4. FLOORING CONNECTIONS FOR DOOR AND WINDOW FRAME TO BE IN ACCORDANCE WITH FLORIDA BUILDING CODE, CHAPTER 6, PART 1, BASED ON 100 MPH WIND SPEED.

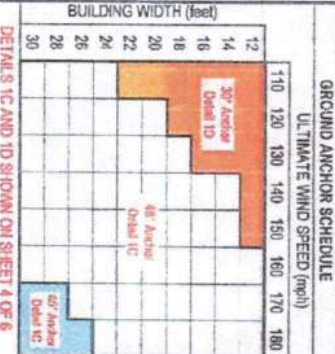
GENERAL NOTES:

- THESE PLANS PERTAIN ONLY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE, RESISTING SYSTEM COMPONENTS AND BASE NAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING BUT NOT LIMITED TO PLUMBING, ELECTRICAL, INSURANCE, PROPERTY SET-BACKS, FISH FLOOR ELEVATION AND SLOPE, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE RESPONSIBILITY OF OTHERS.
- THESE STRUCTURES ARE DESIGNED AS NON-HABITABLE UTILITIES (GAS, CATEGORY 2) BASED ON THE BUILDING CODE OF THE STATE OF FLORIDA. APPROVED FOR THE STATE OF FLORIDA BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND FORESTRY, DIVISION OF FORESTRY, 1000 N. GULF BLVD., SUITE 100, TAMPA, FL 33601. APPROVED FOR THE STATE OF FLORIDA BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND FORESTRY, DIVISION OF FORESTRY, 1000 N. GULF BLVD., SUITE 100, TAMPA, FL 33601. APPROVED FOR THE STATE OF FLORIDA BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND FORESTRY, DIVISION OF FORESTRY, 1000 N. GULF BLVD., SUITE 100, TAMPA, FL 33601.
- ALL STEEL TUBING SHALL BE 60 KSI GALVANIZED STEEL. ALL FASTENERS SHALL BE GALVANIZED OR STAINLESS STEEL OR ZINC PLATED.
- ALL COMPONENTS AND CLADDING SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND SHALL MEET THE DESIGN PRESSURES REQUIRED BY THE FLORIDA BUILDING CODE (FBC) AT THE LOCATION OF THE BUILDING WITHIN THE STATE OF FLORIDA.
- ALL FLEET-UP HANGING CONNECTIONS SHALL BE #12-14 x 2" SELF-DRILLING SCREWS WITHOUT CORROSION RESISTANT COATING. ALL SHOP FRAMING CONNECTIONS SHALL BE WELDED.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS. THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40. CONCRETE SLAB FOUNDATIONS SHALL BE REINFORCED WITH 6X6-W/ 4XW/ 4 WELDED WIRE FABRIC COMPLYING WITH ASTM A186, OR WITH SYNTHETIC FIBER REINFORCEMENT COMPLYING WITH ASTM C1119.
- BASE NAIL ANCHOR REQUIREMENTS: ONE WITHIN 6" OF EVERY POST LOCATION, AND BOTH SIDES OF OPENINGS WHERE BASE NAIL IS ABSENT. GROUND ANCHORS ARE NOT REQUIRED FOR CONCRETE FOOTING AND/OR CONCRETE SLAB CONSTRUCTION. SEE GROUND ANCHOR SCHEDULE (THIS SHEET) FOR SPECIFIC TYPE GROUND ANCHOR REQUIREMENTS.
- CONCRETE ANCHORS SHALL BE TYPICAL REDHEAD LOT 7/2 x 5' OR EQUIVALENT OR WELT ANCHOR MODEL AT 1022, OR SLEEVE ANCHOR MODEL, HSA 1200, OR EQUIVALENT.
- POST-RAFTER BRACING: BRACE ON EVERY POST-RAFTER CONNECTION, EXCEPT FOR END WALLS.
- SLAB FOUNDATION SUBGRADE SOIL SHALL BE TYPICAL TREATED AND COVERED WITH 6 MIL VAPOR RETARDER PER SECTION 1816.1 OF THE FBC SEVENTH EDITION (2020). BUILDING MINIMUM ALLOWABLE FOUNDATION SOIL CONTACT BEARING PRESSURE OF 2,000 PSF IS ASSUMED.
- 14 GA FRAMING: 2-1/2" x 2-1/2" TUBE STEEL (TS) WITH 2-1/2" x 2-1/2" TS NIPPLES.
- 12 GA FRAMING: 2-1/2" x 2-1/2" TS WITH 7/8" x 2-1/2" TS NIPPLES.
- ENCLOSED AREAS REQUIRING FLOOD OPENINGS MUST HAVE A MINIMUM OF TWO (2) OPENINGS ON EXTERIOR WALLS. OPENINGS SHOULD BE INSTALLED ON AT LEAST TWO (2) SIDES OF ENCLOSED AREA, WITH BASE OF OPENINGS SET WITHIN 1-FOOT OF THE CENTER OF EXTERIOR OR EXTERIOR GRADE. REQUIRED TOTAL NUMBER OF FLOOD VENTS NOTED IN THE FBC APPROVED PRODUCTS LIST SHALL BE BASED ON ONE (1) FLOOD VENT PER EVERY 800 SQUARE FEET OF ENCLOSED AREA. SEE TYPICAL FLOOD VENT FRAMING PLAN, SHEET 5 OF 6.

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

WIND RISK CATEGORY	WIND EXPOSURE CATEGORY	ULTIMATE WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM POST-RAFTER SPACING (FEET)	AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS OR GIRTS (INCHES)	
					INTERIOR POSTS/RAFTERS	END POSTS/RAFTERS
I	C	110 TO 150	98 TO 116	5.0	6	6
		151 TO 180	117 TO 139	4.0	6	6

NOTES:
1. Specifications applicable to 26 gauge metal roof and wall panels fastened directly to 12 or 14 gauge steel tube framing, or 16 gauge hat channel roof purlins.
2. Specifications applicable only for mean roof height of 20 feet or less, and roof slopes of 7" to 27" (3.5:12 to 6.12:12). Spacing requirements for other roof heights and/or slopes may vary.



GROUND ANCHOR SCHEDULE
ULTIMATE WIND SPEED (mph)
110 120 130 140 150 160 170 180

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 1283
DOBSON, NORTH CAROLINA 27017
PREPARED BY:
BECHTOL ENGINEERING AND TESTING, INC.
608 WEST NEW YORK AVENUE
DELAND, FLORIDA 32720
Certificate of Authorization No. 000054982

CAROLINA CARPORTS, INC.
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

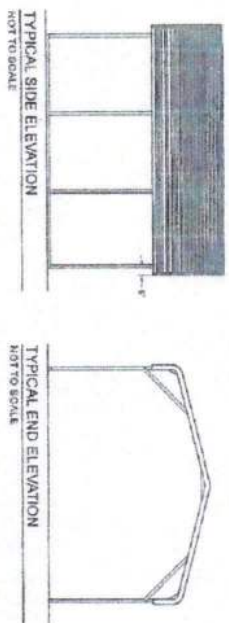
BECHTOL ENGINEERING AND TESTING, INC.
608 WEST NEW YORK AVENUE
DELAND, FLORIDA 32720
FLORIDA LICENSE NO. 000054982

STATE OF FLORIDA
Professional Engineer
No. 00703

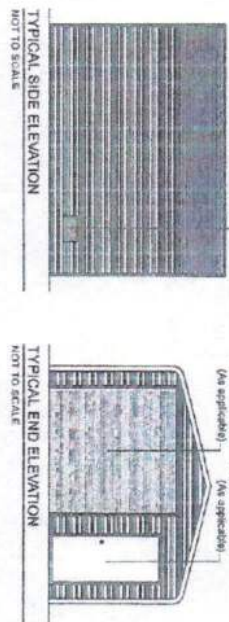
BECHTOL ENGINEERING AND TESTING, INC.
608 WEST NEW YORK AVENUE
DELAND, FLORIDA 32720
FLORIDA LICENSE NO. 000054982

DATE: 09/01/2023
BY: [Signature]
CHECKED: [Signature]
SCALE: AS SHOWN
SHEET 1 OF 6

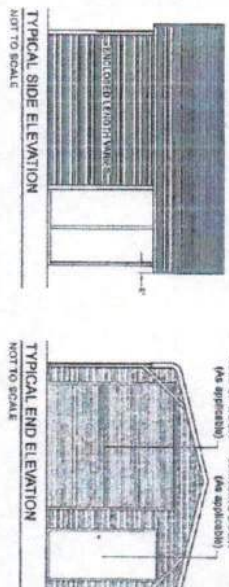
BOW FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF



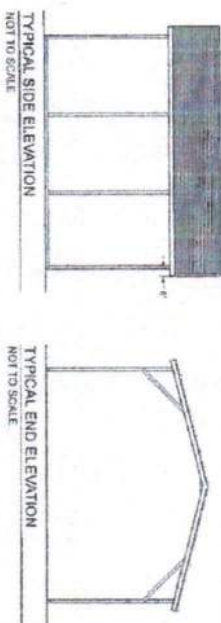
BOW FRAME RAFTER ENCLOSED BUILDING - HORIZONTAL ROOF



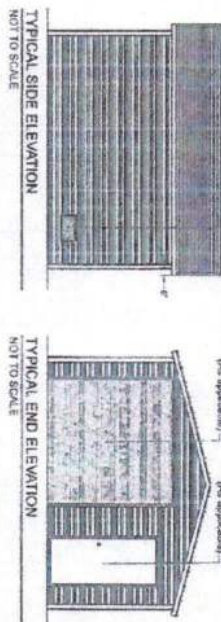
BOW FRAME RAFTER UTILITY BUILDING - HORIZONTAL ROOF



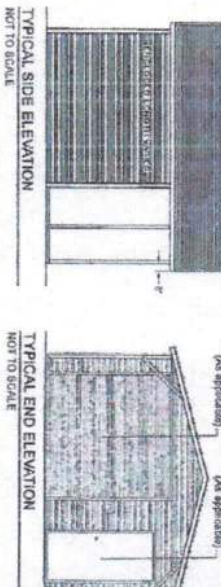
BOX EAVE FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF



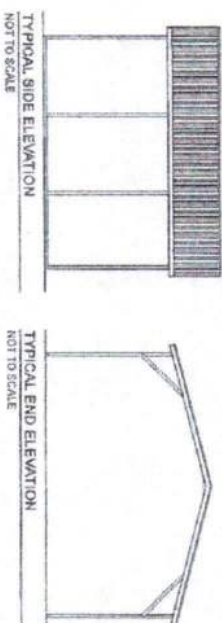
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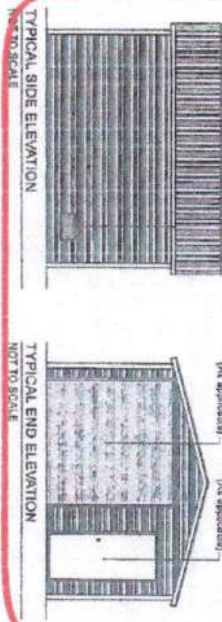
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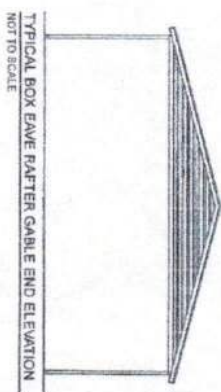
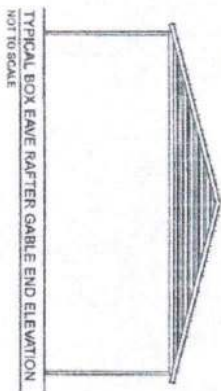
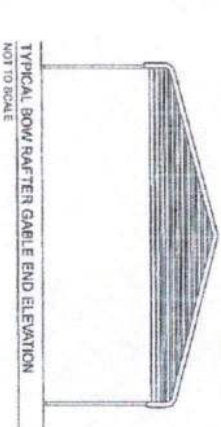
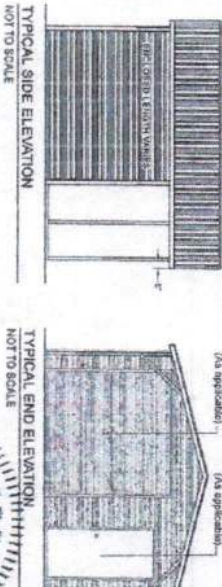
BOX EAVE FRAME RAFTER OPEN CARPORT - VERTICAL ROOF



BOX EAVE FRAME RAFTER ENCLOSED BLDG - VERTICAL ROOF



BOX EAVE FRAME RAFTER UTILITY BLDG - VERTICAL ROOF



CAROLINA CARPORTS, INC.
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

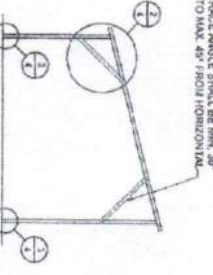
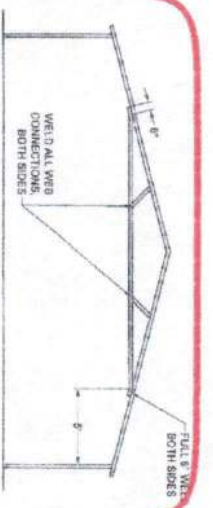
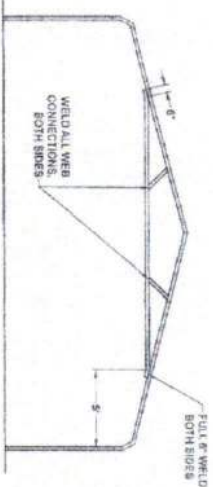
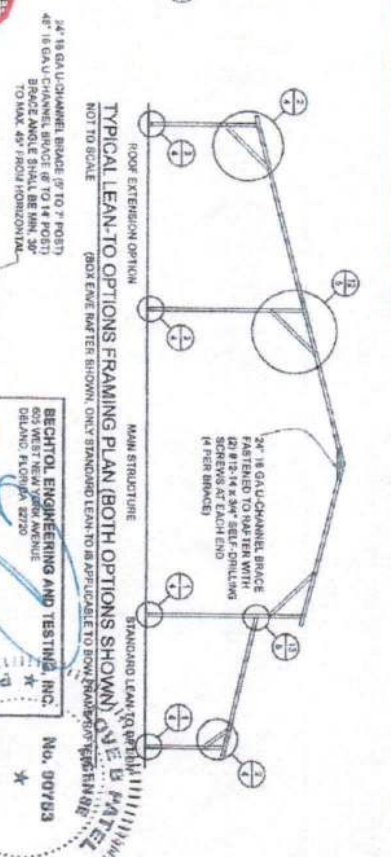
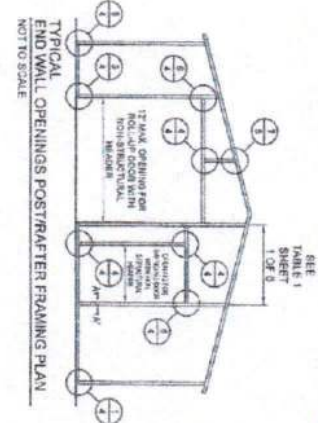
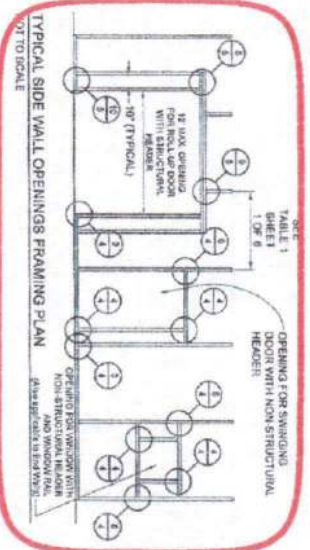
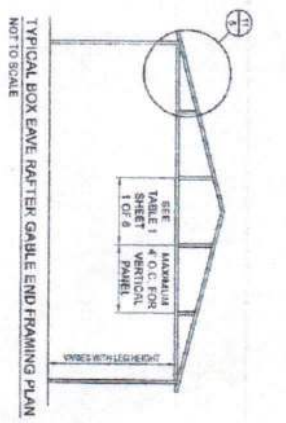
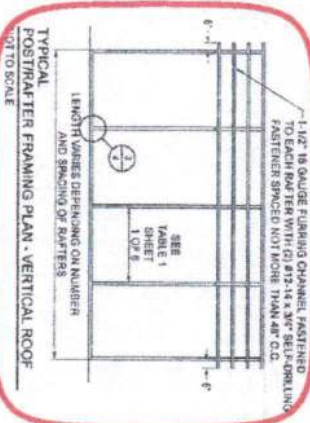
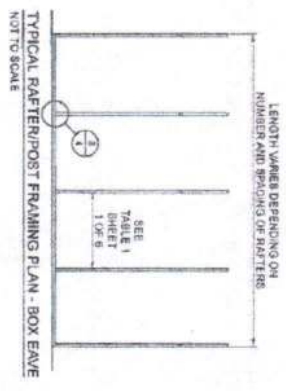
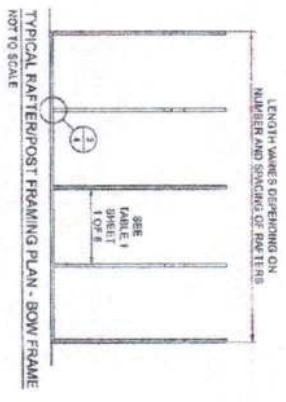
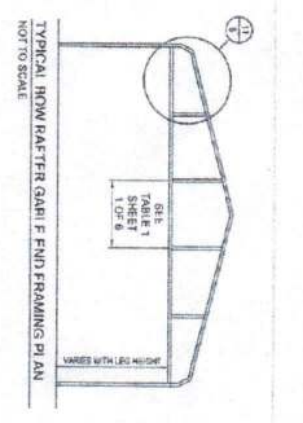
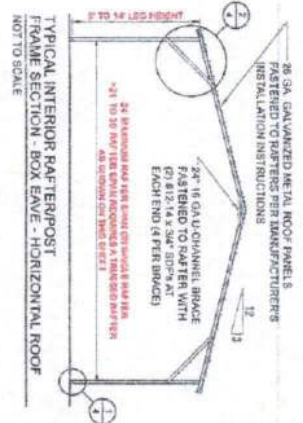
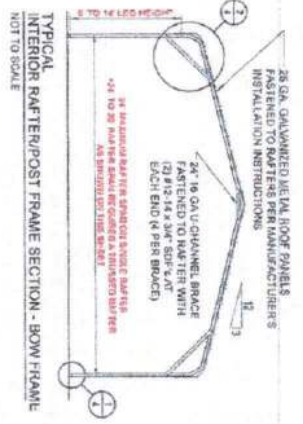
BECHTOL ENGINEERING AND TESTING, INC.
601 WEST HENRY AVE. SUITE 200
ORLANDO, FLORIDA 32803

No. 90793

STATE OF FLORIDA
Professional Engineer

BECHTOL ENGINEERING AND TESTING, INC.
1811 E

DATE: 2/11/2023
BY: MJB
CHECKED: NTS
DESIGNED: TB/CJS
SHEET 2 OF 6



CAROLINA CARPORTS, INC.
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

BECHTOL ENGINEERING AND TESTING, INC.
605 WEST NEW YORK AVENUE
DELAND, FLORIDA 32720

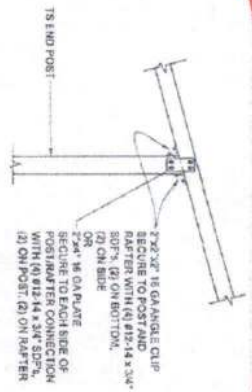
Professional Engineer
No. 90753
STATE OF FLORIDA

REVISIONS

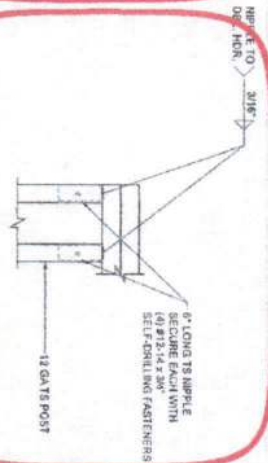
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2	08/03	WJS	201/08/03
3	08/03	WJS	201/08/03

PROJECT
18-1P

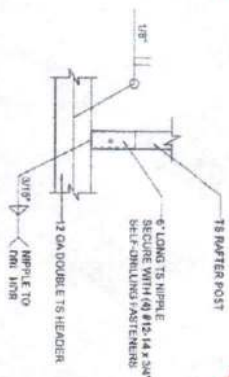
SHEET 1 OF 6



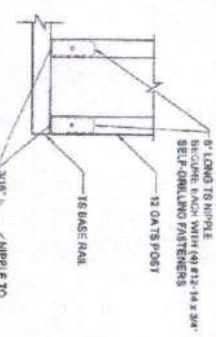
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END POST/RAFTER CONN. DETAIL
Not To Scale



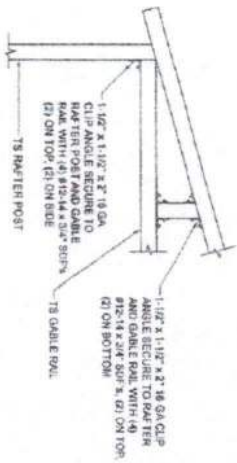
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RAFTER POST/DBL. HEADER DETAIL
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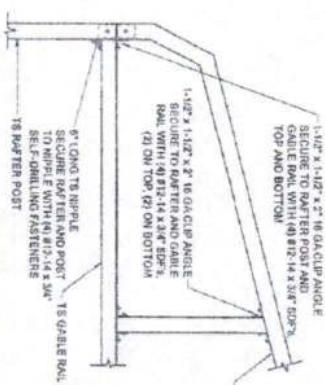
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RAFTER POST/HEADER DETAIL
Not To Scale



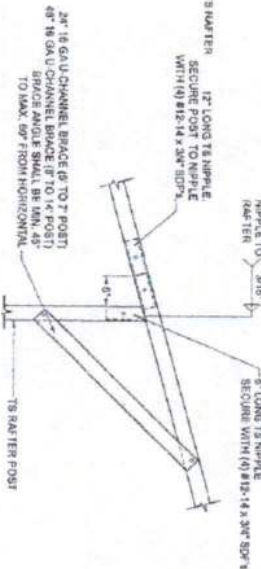
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RAFTER POST/BASE RAIL CONNECTION DETAIL
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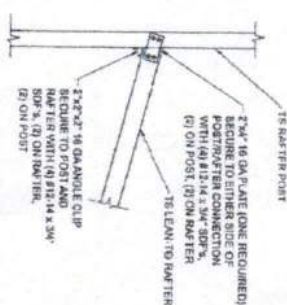
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GABLE RAIL TO RAFTER POST CONNECTION DETAIL
Not To Scale



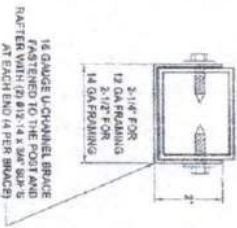
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GABLE RAIL TO RAFTER POST CONNECTION DETAIL
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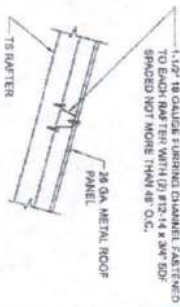
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SIDE EXTENSION RAFTER/POST DETAIL
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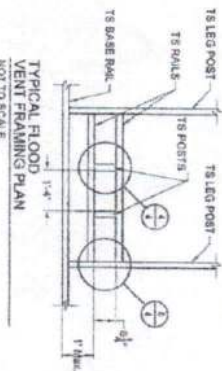
13
POST / LEAN-TO RAFTER CONN. DETAIL
Not To Scale



14
BRACE SECTION
Not To Scale



15
ROOF PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
Not To Scale



16
TYPICAL FLOOD VENT FRAMING PLAN
Not To Scale

CAROLINA CARPORTS, INC.
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

BECHTOL ENGINEERING
DESIGN AND TESTING, INC.
1000 WEST NEW YORK AVENUE
DELAND, FLORIDA 32520

Professional Engineer
No. 00783
STATE OF FLORIDA

REVISIONS

NO.	DATE	BY	CHKD.
1	10/15/03	MB	MB
2	11/15/03	MB	MB
3	11/15/03	MB	MB

PROJECT: TR/TP SHEET 6 OF 6

TYPICAL END WALL OPENINGS POST/RAFTER/GIRT FRAMING PLAN

NOT TO SCALE

GIRTS (Typical)

1/2 MAX. OPENING FOR ROLL-UP DOOR WITH NON-STRUCTURAL BEASER

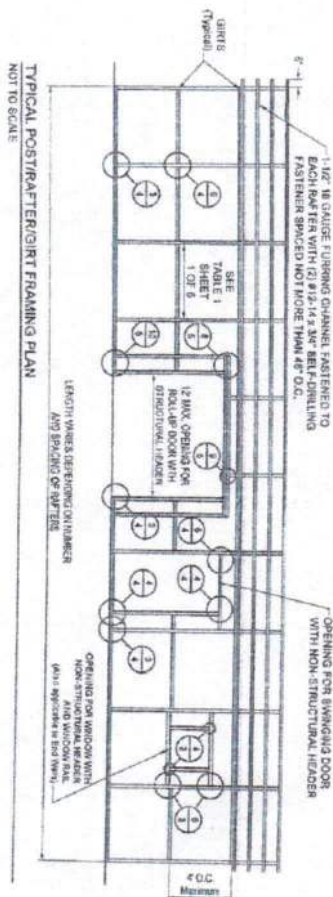
F.O.C. Maximum

TABLE 1 SHEET 1 OF 6

SEE TABLE 1 SHEET 1 OF 6

OPENING FOR SWINGING DOOR WITH NON-STRUCTURAL BEASER

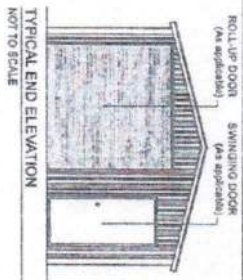
**TYPICAL END
WALL OPENINGS POST/RAFTER/GIRT FRAMING PLAN**
NOT TO SCALE



TYPICAL POST/RAFTER/GIRT FRAMING PLAN
NOT TO SCALE

TYPICAL SIDE ELEVATION
NOT TO SCALE

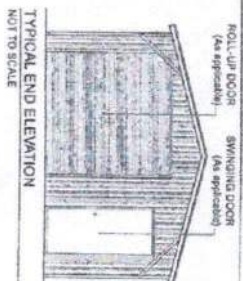
TYPICAL SIDE ELEVATION
NOT TO SCALE



TYPICAL END ELEVATION
NOT TO SCALE

TYPICAL SIDE ELEVATION
NOT TO SCALE

TYPICAL SIDE ELEVATION
NOT TO SCALE



TYPICAL END ELEVATION
NOT TO SCALE

CAROLINA CARPORTS, INC.
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA



**BECHTOL ENGINEERING
AND TESTING, Inc.**

10000 KENNEDY BLVD., SUITE 100, DALLAS, TEXAS 75224
TEL: 214/343-6600 FAX: 214/343-6601

DATE	2/21/2023
TIME	NTS
TEST	NTS
TEST NO.	G23001

BECHTEL ENGINEERING AND TESTING, INC.
608 WEST NEW YORK AVENUE
DELANDO, FLORIDA 33720

No. 00753

BRIGHTON ENGINEERING AND TESTING, INC.
601 WEST HENRY STREET
DELAND, FLORIDA 32720

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 00755
LICENSE