

FBC APPROVED PRODUCTS LIST

PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE	QA EXPIRATION DATE	MAXIMUM ALLOWABLE WIND SPEED		
STRUCTURAL COMPONENTS	ROOF DECK	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6598, 1-R6 12/15/20	04/05/27	180	180	PARTIALLY ENCLOSED
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6702, 1-R6 12/15/20	03/14/27	180	180	ENCLOSED
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge Dutch Lap Wall Panel	FL6703, 2-R6 12/15/20	03/14/27	N/A	164	ENCLOSED
STRUCTURAL COMPONENTS	FLOOD VENT	CRANUL SPACE DOOR SYSTEMS, INC. 16x8 Flood Vent	FL3622, 1-R1 02/28/21	09/30/22	N/A	N/A	ENCLOSED
EXTERIOR DOORS	SWINGING	ELUXIR DOOR AND METAL COMPANY Series 402-14	FL1798, 3-R2 02/28/21	06/26/25	139	139	ENCLOSED
EXTERIOR DOORS	SWINGING	ELUXIR DOOR AND METAL COMPANY Series 407	FL1798, 5-R2 02/28/21	08/19/25	174	155	ENCLOSED
EXTERIOR DOORS	ROLL-UP	ASTA INDUSTRIES INC. Model 203 (12" Max. Width)	FL668, 1-R6 02/28/21	12/31/23	N/A	180	ENCLOSED
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll Up Sheet Door (12" Max. Width)	FL3006, 1-R5 12/16/20	04/05/27	N/A	179	ENCLOSED
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll Up Sheet Door - (6" Max. Width)	FL3006, 2-R5 12/16/20	04/05/27	N/A	180	ENCLOSED
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door - (6" Max. Width)	FL3006, 3-R5 12/16/20	04/05/27	N/A	155	ENCLOSED
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door - (10" Max. Width)	FL3006, 4-R5 12/16/20	04/05/27	N/A	180	ENCLOSED
WINDOWS	SINGLE HUNG	POT INDUSTRIES Model SH7700	FL219, 4-R28 11/11/20	10/17/23	N/A	180	ENCLOSED

NOTES:
1. DOORS AND WINDOWS SHOWN MAY BE SUBSTITUTED FOR DIFFERENT PRODUCT LINES AND/OR MODELS, PROVIDED THE FOLLOWING CONDITIONS ARE MET:
A. PRODUCT SHALL HAVE A VALID FBC PRODUCT APPROVAL.
B. COMPONENTS ARE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION REQUIREMENTS.
2. FRAMING CONNECTIONS FOR DOOR AND WINDOW FRAMES REMAIN THE SAME FOR SUBSTITUTED PRODUCTS. HEADERS AND WINDOW RAILS MAY BE RAISED OR LOWERED AS NECESSARY TO ACCOMMODATE SUBSTITUTED PRODUCT.

GENERAL NOTES:
1. THESE PLANS ARE INTENDED ONLY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM, COMPONENTS AND CLADDING, AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING BUT NOT LIMITED TO PLUMBING, ELECTRICAL, INGRESS/EGRESS, PROPERTY SET-BACKS, FINISH FLOOR ELEVATION AND SLOPE, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE RESPONSIBILITY OF OTHERS.
2. THESE STRUCTURES ARE DESIGNED AS NON-HABITABLE UTILITY/STORAGE BUILDINGS (RISK CATEGORY II) CAPABLE OF SUPPORTING DEAD LOAD OF THE STRUCTURE AND APPLICABLE LIVE AND WIND LOADS. IMPROVEMENTS NOT SPECIFICALLY ADDRESSED HEREIN, INCLUDING DOORS, WINDOWS, OR OTHER COMPONENTS NOT LISTED IN THE FBC APPROVED PRODUCTS LIST (THIS SHEET), AND NOT PROVIDED AND INSTALLED BY CAROLINA CARPORTS, INC., WHICH EXERT ADDITIONAL LOADS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK. BECHTEL ENGINEERING AND TESTING, INC., SHALL NOT BE RESPONSIBLE FOR STRUCTURAL DAMAGE OR FAILURE DUE TO THE APPLICATION OF ADDITIONAL LOADS.

3. ALL STEEL TUBING SHALL BE 60 KSI GALVANIZED STEEL. ALL FASTENERS SHALL BE GALVANIZED OR STAINLESS STEEL OR ZINC PLATED.
4. 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.
5. ALL FIELD FRAMING CONNECTIONS SHALL BE #12-14 x 3/4" SELF DRILLING SCREWS WITHOUT CONTROL SEAL WASHER. ALL SHOP FRAMING CONNECTIONS SHALL BE WELDED.
6. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2800 PSI AT 28 DAYS. THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40. CONCRETE SLAB FOUNDATIONS SHALL BE REINFORCED WITH 6X6-W1 4XW1.4 WELDED WIRE FABRIC COMPLYING WITH ASTM A185, OR WITH SYNTHETIC FIBER REINFORCEMENT COMPLYING WITH ASTM C1116.
7. BASE RAIL GROUND ANCHOR REQUIREMENTS: ONE ANCHOR PER END OF EACH RAIL, AND BOTH SIDES OF OPENINGS WHERE BASE RAIL 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.
8. CONCRETE ANCHORS SHALL BE TAPCON REDHEAD LDT 1/2" x 5" OR EQUIVALENT OR WEL-JIT ANKR-11TE MODEL AT1252, OR SLEEVE ANCHOR MODEL HSA 1280, OR EQUIVALENT.
9. POST/RAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS.
10. SLAB FOUNDATION SUBGRADE SOILS SHALL BE TERMITE TREATED AND COVERED WITH 6 MIL VAPOR RETARDER PER SECTION R318.1 OF THE FBC SEVENTH EDITION (2020). BUILDING. MINIMUM ALLOWABLE FOUNDATION SOIL CONTACT BEARING PRESSURE OF 2.000 PSF IS ASSUMED.
11. 14 GA FRAMING: 2-1/2" x 2-1/2" TUBE STEEL (TS) WITH 2-1/4" x 2-1/4" TS NIPPLES.
12. GA FRAMING: 2-1/4" x 2-1/4" TS WITH 2" x 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 HIGHER OF INTERIOR 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 305 SQUARE FEET OF ENCLOSED AREA. SEE TYPICAL FLOOD VENT FRAMING PLAN, SHEET 5 OF 5.

TABLE 1

RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS				
RISK CATEGORY	WIND EXPOSURE CATEGORY	ULTIMATE WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS OR GIRTS (INCHES)
I	C	110 TO 150	89 TO 116	INTERIOR POSTS/RAFTERS 6 END POSTS/RAFTERS 6
		151 TO 180	117 TO 139	INTERIOR POSTS/RAFTERS 6 END POSTS/RAFTERS 6

NOTES:
1. Specifications applicable to 26 gauge metal roof and wall panels fastened directly to 12 or 14 gauge steel tube framing, or 18 gauge hat channel roof surfaces.
2. Specifications applicable only for mean roof height of 20 feet or less, and roof slopes of 7" to 27" (1.5:12 to 6:12 pitch). 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
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DETAILS 1C AND 1D SHOWN ON SHEET 4 OF 6

30" Anchor Detail 1C
48" Anchor Detail 1C
50" Anchor Detail 1C

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

PREPARED BY:
BECHTEL ENGINEERING AND TESTING, INC.
805 WEST NEW YORK AVENUE
RENO, CALIFORNIA 96101
Certificate of Authorization No. 00009492

METAL CARPORT INSTALLATION PLANS AND DETAILS AND FRAMING AND FASTENER SPECIFICATIONS

FOR CONSTRUCTION IN THE STATE OF FLORIDA

FILE COPY

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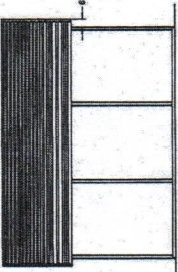
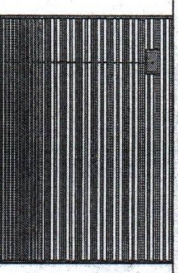
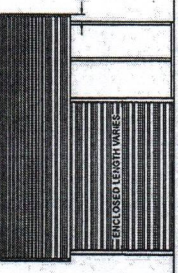
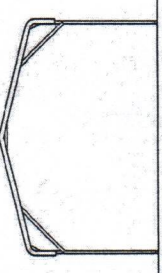
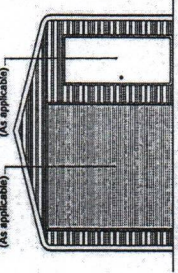
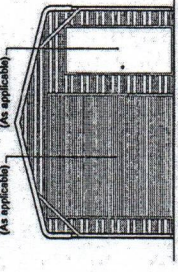
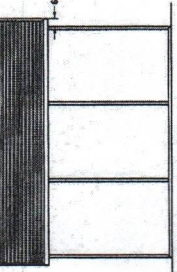
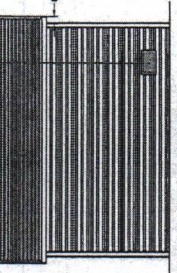
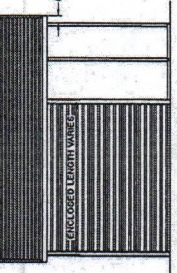
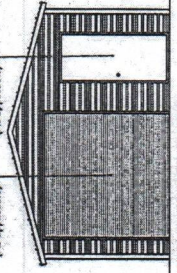
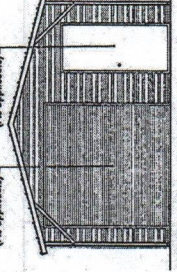
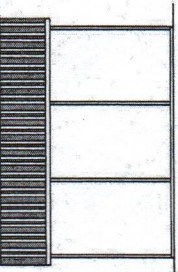
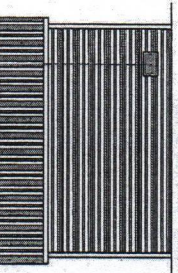
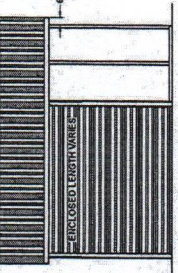
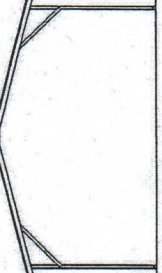
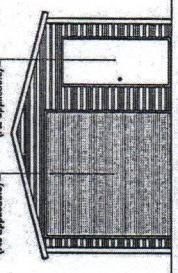
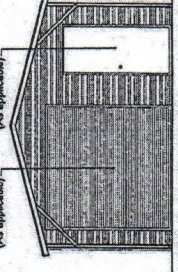
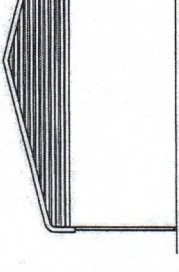
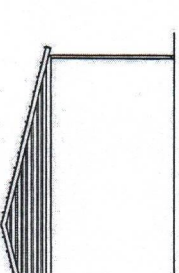
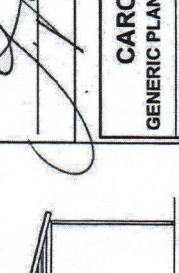
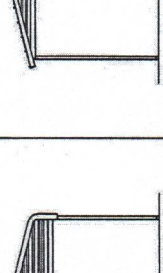
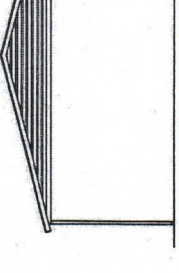
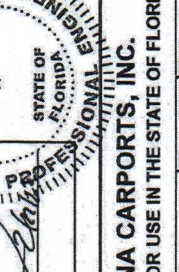
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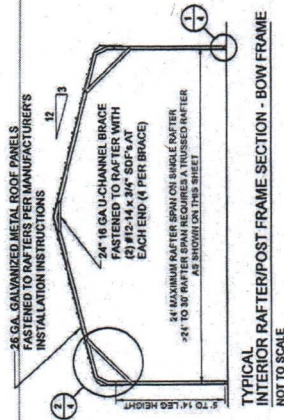
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	TYPICAL SIDE ELEVATION NOT TO SCALE		TYPICAL SIDE ELEVATION NOT TO SCALE		TYPICAL SIDE ELEVATION NOT TO SCALE
	TYPICAL END ELEVATION NOT TO SCALE		TYPICAL END ELEVATION NOT TO SCALE		TYPICAL END ELEVATION NOT TO SCALE
BOW FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF		BOW FRAME RAFTER ENCLOSED BLDG - HORIZONTAL ROOF		BOX EAVE FRAME RAFTER UTILITY BLDG - HORIZONTAL ROOF	
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BOX EAVE FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF		BOX EAVE FRAME RAFTER ENCLOSED BLDG - HORIZONTAL ROOF		BOX EAVE FRAME RAFTER UTILITY BLDG - VERTICAL ROOF	
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TYPICAL BOW RAFTER GABLE END ELEVATION NOT TO SCALE		TYPICAL BOX EAVE RAFTER GABLE END ELEVATION NOT TO SCALE		TYPICAL BOX EAVE RAFTER GABLE END ELEVATION NOT TO SCALE	

BECHTOL ENGINEERING AND TESTING, INC.
 10000 W. BOULEVARD
 DELAND, FLORIDA 32720

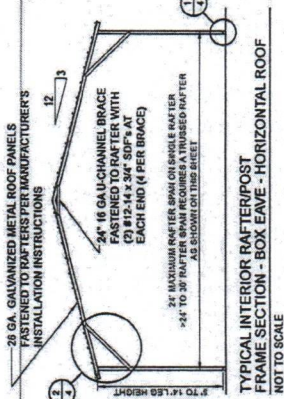
[Signature]
Professional Engineer
 No. 90793
 STATE OF FLORIDA

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

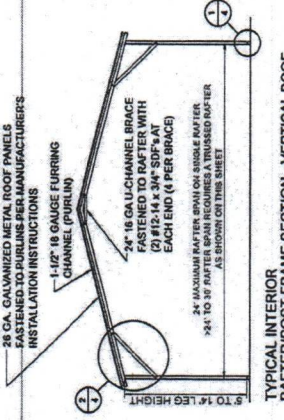
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DESIGNER	AMG
PROJECT	TR / CS
REVISION	TR / P
 BECHTOL ENGINEERING AND TESTING, INC. ENGINEERING, ARCHITECTURAL, AND SPECIALTY TESTING	
SHEET 2 OF 6	



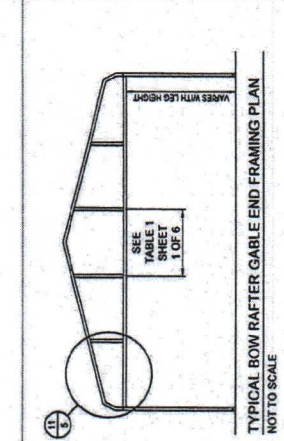
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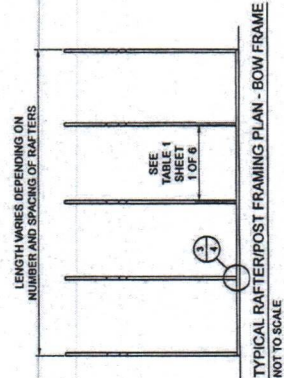
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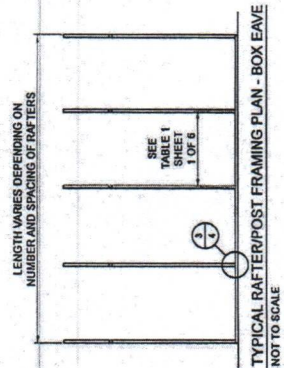
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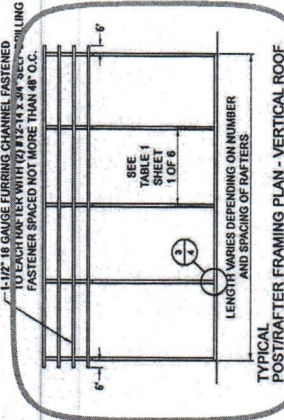
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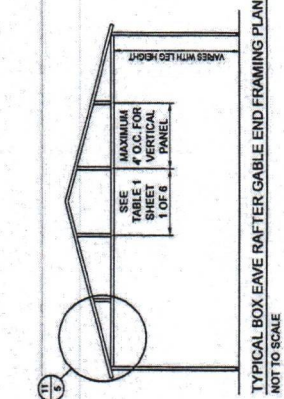
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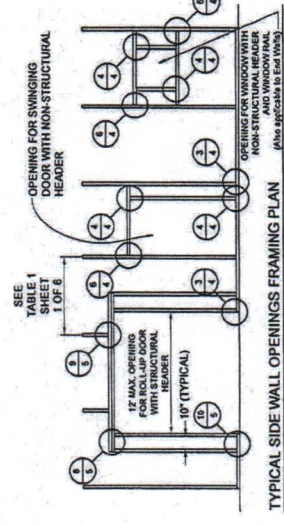
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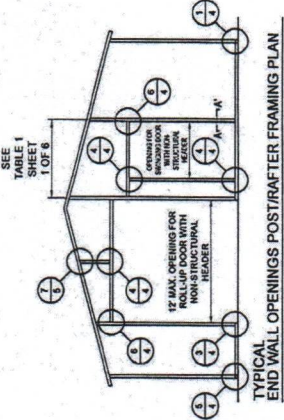
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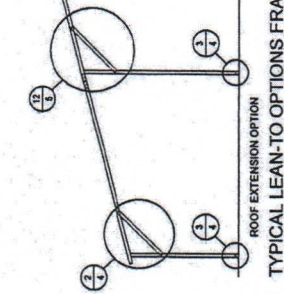
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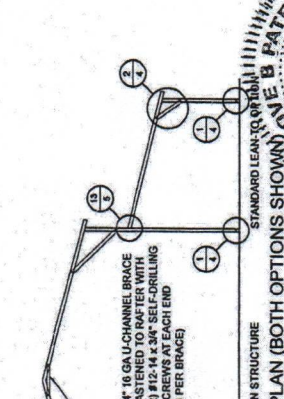
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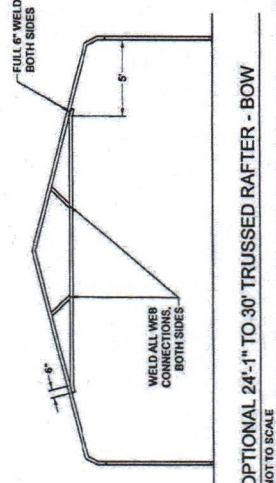
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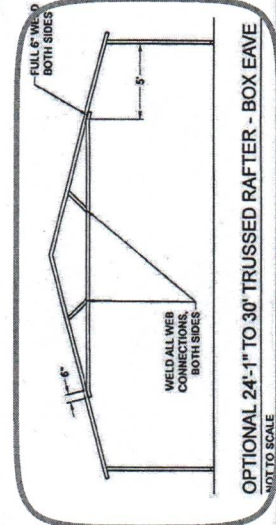
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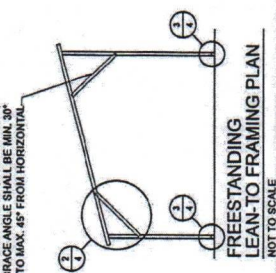
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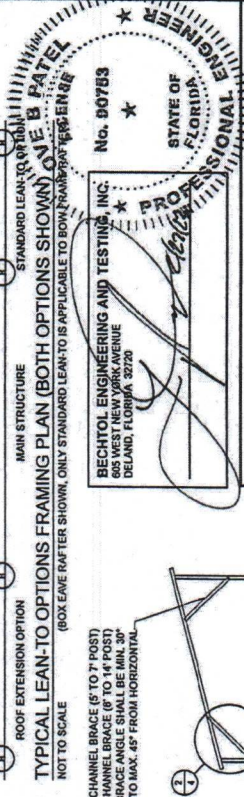
OPTIONAL 24'-1\"/>



OPTIONAL 24'-1\"/>



FREESTANDING LEAN-TO FRAMING PLAN
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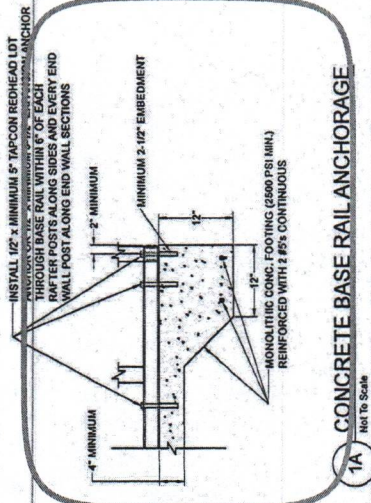
TYPICAL LEAN-TO OPTIONS FRAMING PLAN (BOTH OPTIONS SHOWN)
NOT TO SCALE

BECHTOL ENGINEERING AND TESTING, INC.
685 WEST NEW YORK AVENUE
DELAND, FLORIDA 32526
No. 90783
STATE OF FLORIDA
PROFESSIONAL ENGINEER

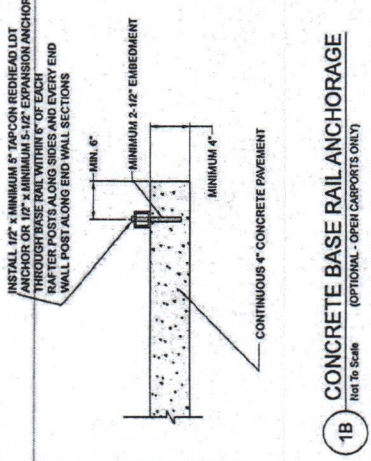
CAROLINA CARPORTS, INC.
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

DATE	2/21/2023
DESIGNER	AKB
CHECKED	TB/CS
DATE	02/20/21
APPROVED	TB/JP

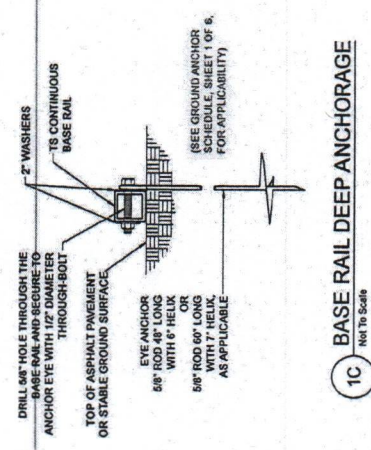
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GENERIC PLANS FOR USE IN THE STATE OF FLORIDA



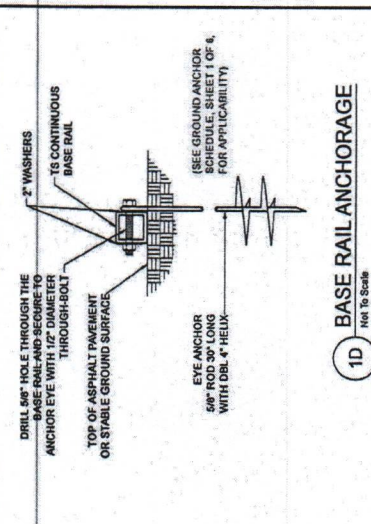
1A CONCRETE BASE RAIL ANCHORAGE
Not To Scale



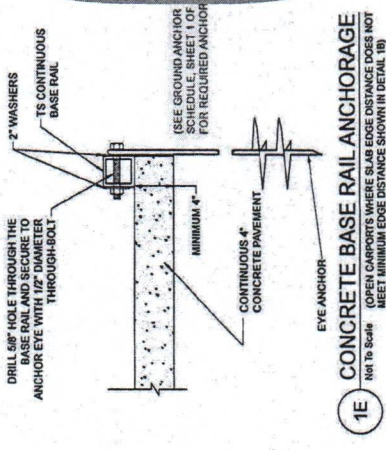
1B CONCRETE BASE RAIL ANCHORAGE
(OPTIONAL - OPEN CARPORTS ONLY)
Not To Scale



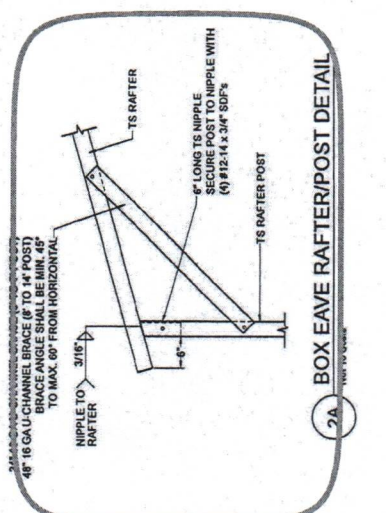
1C BASE RAIL DEEP ANCHORAGE
Not To Scale



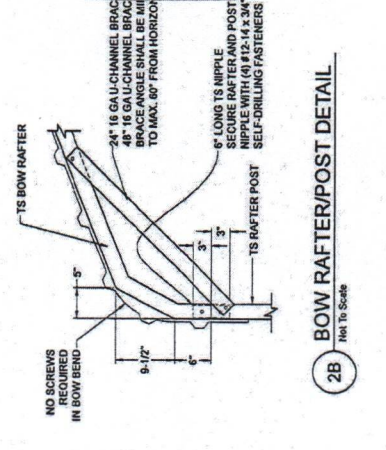
1D BASE RAIL ANCHORAGE
Not To Scale



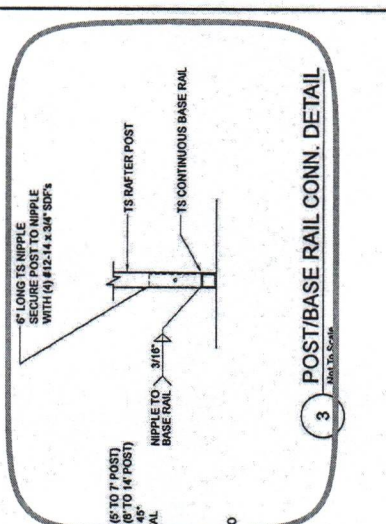
1E CONCRETE BASE RAIL ANCHORAGE
Not To Scale
(OPEN CARPORTS WHERE END POSTS DO NOT MEET MINIMUM EDGE DISTANCE SHOWN IN DETAIL 1B)



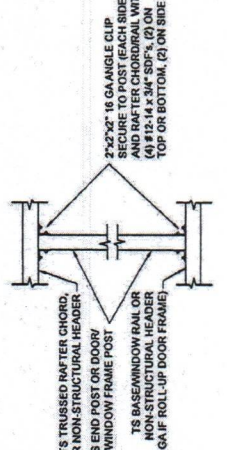
2A BOX EAVE RAFTER/POST DETAIL
Not To Scale



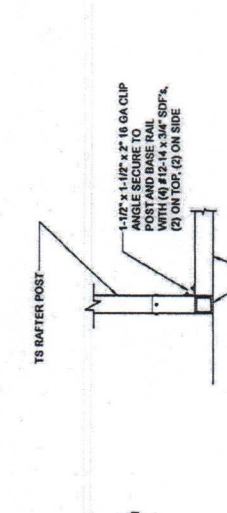
2B BOW RAFTER/POST DETAIL
Not To Scale



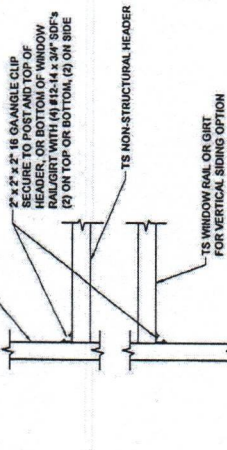
3 POST/BASE RAIL CONN. DETAIL
Not To Scale



4 POST TO RAIL, TRUSS CHORD, OR NON-STRUCTURAL HEADER CONN. DETAIL
Not To Scale



5 END POST/BASE RAIL CONN.
Not To Scale



6 NON-STRUCTURAL HEADER, WINDOW RAIL, OR GIRT TO POST CONN. DETAIL
Not To Scale

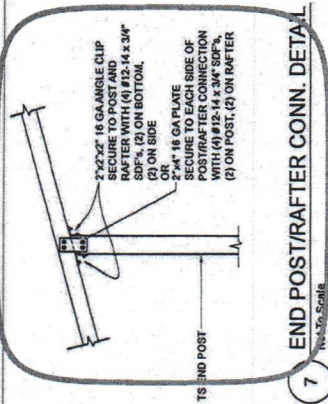
BECHTOL ENGINEERING AND TESTING, INC.
10000 WEST 10TH AVENUE
DELAND, FLORIDA 32720

LOUIS B. FAYET, LIC. ENGINEER
No. 80753
STATE OF FLORIDA

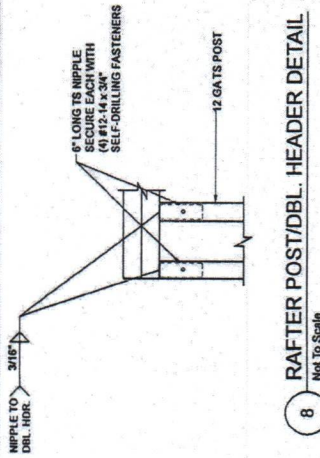
CAROLINA CARPORTS, INC.
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

DATE	2/21/2023
BY	NTS
CHKD	MBG
DATE	7/1/23
CHKD	TS/CS
DATE	7/1/23
CHKD	TS/JP

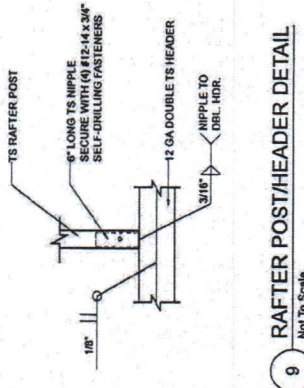
BECHTOL ENGINEERING AND TESTING, INC.
10000 WEST 10TH AVENUE
DELAND, FLORIDA 32720



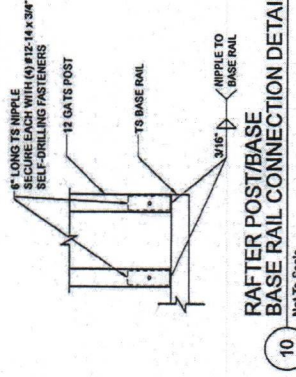
7
Not To Scale
END POST/RAFTER CONN. DETAIL



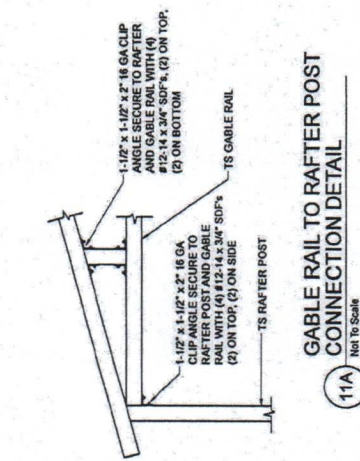
8
Not To Scale
RAFTER POST/DBL. HEADER DETAIL



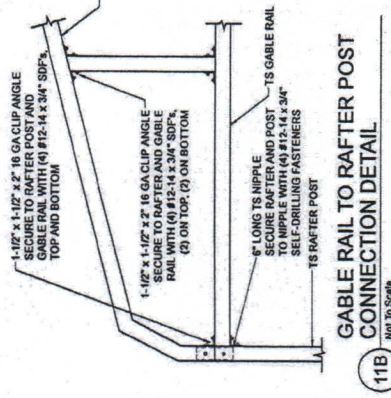
9
Not To Scale
RAFTER POST/HEADER DETAIL



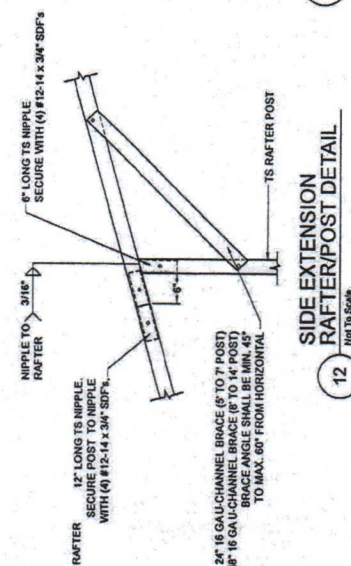
10
Not To Scale
RAFTER POST/BASE
BASE RAIL CONNECTION DETAIL



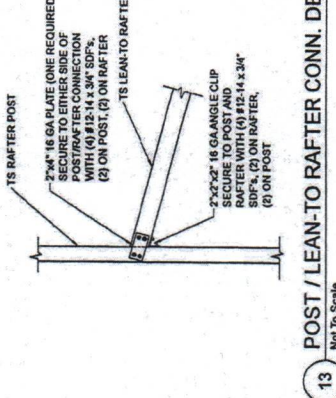
11A
Not To Scale
GABLE RAIL TO RAFTER POST
CONNECTION DETAIL



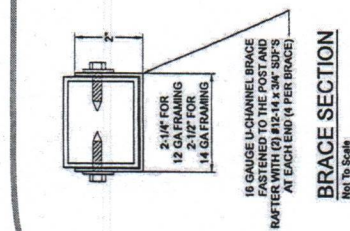
11B
Not To Scale
GABLE RAIL TO RAFTER POST
CONNECTION DETAIL



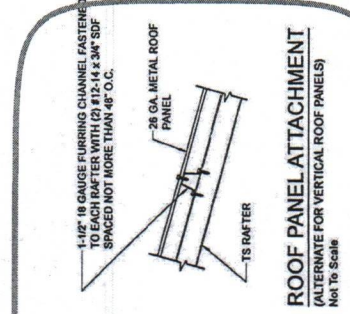
12
Not To Scale
SIDE EXTENSION
RAFTER/POST DETAIL



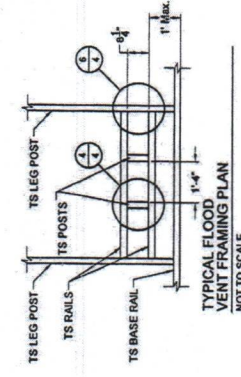
13
Not To Scale
POST / LEAN-TO RAFTER CONN. DETAIL



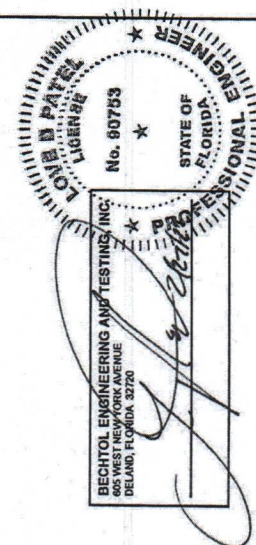
BRACE SECTION
Not To Scale



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



TYPICAL FLOOD
VENT FRAMING PLAN
NOT TO SCALE



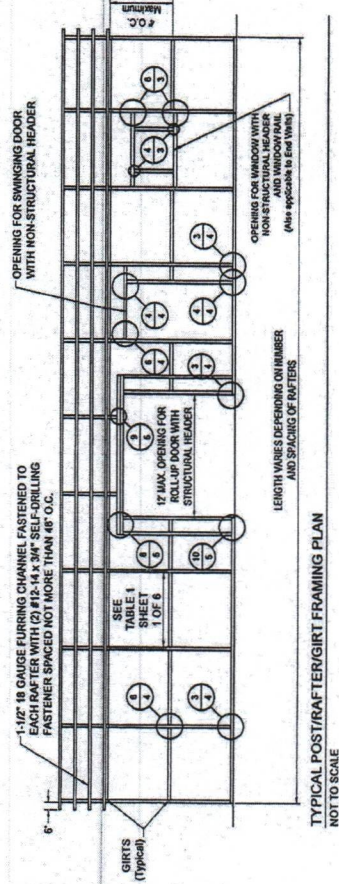
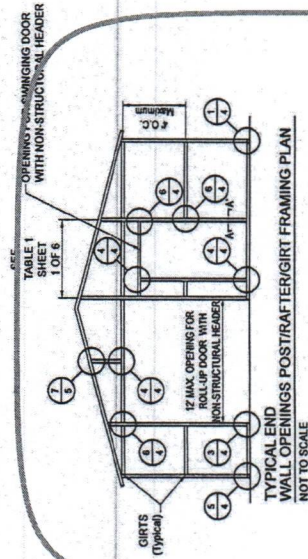
CAROLINA CARPORTS, INC.
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

DATE	2011/02/03
BY	NTS
CHECKED	MB
DESIGNED	CS
PROJECT	TD/UP
SHEET	5 OF 6

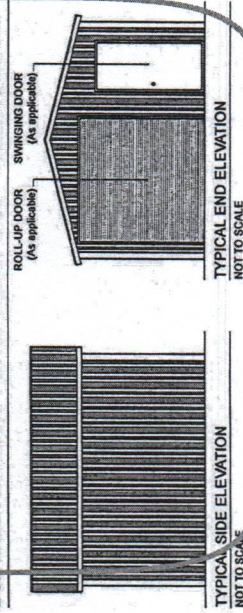
BECHTEL ENGINEERING AND TESTING, INC.
CORPORATE OFFICE: 605 WEST NEW YORK AVENUE, DELAND, FLORIDA 32720
TELEPHONE: 386-270-1111
FAX: 386-270-1112
WWW.BECHTEL-ET.COM

SEE GENERAL NOTE No. 12, SHEET 1 OF 6.

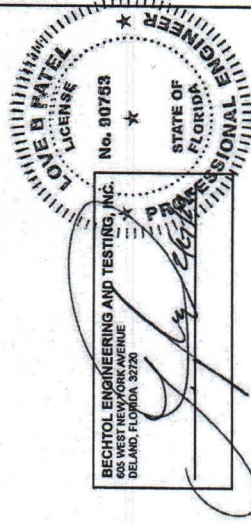
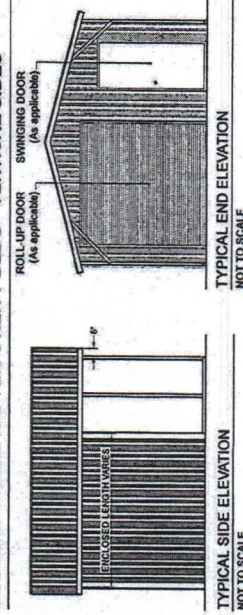
VERTICAL SIDE OPTION



BOX EAVE FRAME ENCLOSED BLDG - VERTICAL SIDES



BOX EAVE FRAME RAFTER UTILITY BLDG - VERTICAL SIDES



CAROLINA CARPORTS, INC.		BECHTOL ENGINEERING AND TESTING, INC.	
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA		605 WEST NEW YORK AVENUE DELAND, FLORIDA 32720	
DATE	2/21/2023	SCALE	NTS
PROJECT	MA3	CONTR	TD/CS
DESIGNER	TD/UP	DATE	G23001
SHEET 6 OF 6		SHEET 6 OF 6	

FBC APPROVED PRODUCTS LIST										MAXIMUM ALLOWABLE WIND SPEED				RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS				
PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE	QA EXPIRATION DATE	OPEN	ENCLOSED	PARTIALLY ENCLOSED			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)			
STRUCTURAL COMPONENTS	ROOF DECK	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL5906.1-R6 12/15/20	04/05/27	160	160	180			I	C	110 TO 150	89 TO 116	5.0	6			
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL7022.1-R6 12/15/20	03/14/27	180	160	180					151 TO 180	117 TO 139	4.0	6			
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge Dutch Lap Wall Panel	FL7022.3-R6 12/15/20 **	03/14/27	N/A	164	143											
STRUCTURAL COMPONENTS	FLOOD VENT	CRAWL SPACE DOOR SYSTEMS, INC. 16x8 Flood Vent	FL9602.1-R1 02/28/21	09/30/22	N/A	N/A	N/A											
EXTERIOR DOORS	SWINGING	ELKIR DOOR AND METAL COMPANY Series 402-14	FL7096.3-R2 02/28/21	08/26/25	N/A	139	139											
EXTERIOR DOORS	SWINGING	ELKIR DOOR AND METAL COMPANY Series 407	FL7096.5-R2 02/28/21	08/19/25	N/A	174	155											
EXTERIOR DOORS	ROLL-UP	ASTA INDUSTRIES INC. Model 203 (12' Max. Width)	FL868.1-R5 02/29/21	12/31/23	N/A	160	174											
EXTERIOR DOOR	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door (12' Max. Width)	FL9306.1-R5 12/16/20	04/05/27	N/A	179	154											
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door - (6' Max. Width)	FL9306.2-R5 12/16/20	04/05/27	N/A	180	180											
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door - (16' Max. Width)	FL9306.3-R5 12/16/20	04/05/27	N/A	155	133											
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door - (10' Max. Width)	FL9306.4-R5 12/16/20	04/05/27	N/A	180	172											
WINDOWS	SINGLE HUNG	PGT INDUSTRIES Model SH700	FL2934-R28 11/11/20	10/17/23	N/A	160	178											

NOTES:

1. DOORS AND WINDOWS SHOWN MAY BE SUBSTITUTED FOR DIFFERENT PRODUCT LINES AND/OR MODELS, PROVIDED THE FOLLOWING CONDITIONS ARE MET:

A. PRODUCT SHALL HAVE A VALID FBC PRODUCT APPROVAL.

B. COMPONENTS ARE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION REQUIREMENTS.

2. FRAMING CONNECTIONS FOR DOOR AND WINDOW FRAMES REMAIN THE SAME FOR SUBSTITUTED PRODUCTS. HEADERS AND WINDOW RAILS MAY BE RAISED OR LOWERED AS NECESSARY TO ACCOMMODATE SUBSTITUTED PRODUCT.

GENERAL NOTES:

1. THESE PLANS PERTAIN ONLY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM, COMPONENTS AND CLADDING, AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING BUT NOT LIMITED TO PLUMBING, ELECTRICAL, INGRESS/EGRESS, PROPERTY SETBACKS, FINISH FLOOR ELEVATION AND SLOPE, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE RESPONSIBILITY OF OTHERS.

2. THESE STRUCTURES ARE DESIGNED AS NON-HABITABLE UTILITIES/STORAGE BUILDINGS (RISK CATEGORY II) CAPABLE OF SUPPORTING DEAD LOAD OF THE STRUCTURE AND APPLICABLE LIVE AND WIND LOADS. IMPROVEMENTS, NOT SPECIFICALLY ADDRESSED HEREIN, INCLUDING DOORS, WINDOWS, OR OTHER COMPONENTS NOT LISTED IN THE FBC APPROVED PRODUCTS LIST (THIS SHEET), AND NOT PROVIDED AND INSTALLED BY CAROLINA CARPORTS, INC., SHALL BE THE RESPONSIBILITY OF THE OWNER. BECHTOL ENGINEERING AND TESTING, INC., SHALL NOT BE RESPONSIBLE FOR STRUCTURAL DAMAGE OR FAILURE DUE TO THE APPLICATION OF ADDITIONAL LOADS.

3. ALL STEEL TUBING SHALL BE 60 KSI GALVANIZED STEEL. ALL FASTENERS SHALL BE GALVANIZED OR STAINLESS STEEL OR ZINC PLATED.

4. 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.

5. ALL FIELD FRAMING CONNECTIONS SHALL BE #12-14 x 3/4" SELF DRILLING SCREWS WITHOUT CONTROL SEAL WASHER. ALL SHOP FRAMING CONNECTIONS SHALL BE WELDED.

6. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40. CONCRETE SLAB FOUNDATIONS SHALL BE REINFORCED WITH 6X6-W1. ANXW1.4 WELDED WIRE FABRIC COMPLYING WITH ASTM A 185, OR WITH SYNTHETIC FIBER REINFORCEMENT COMPLYING WITH ASTM C1116.

7. BASE RAIL GROUND ANCHOR REQUIREMENTS: SEE GROUND ANCHOR SCHEDULE (THIS SHEET) FOR SPECIFIC TYPE GROUND ANCHOR REQUIREMENTS, AND BOTH SIDES OF OPENINGS WHERE BASE RAIL IS ABSENT. GROUND ANCHORS ARE NOT REQUIRED FOR CONCRETE FOOTING AND/OR CONCRETE SLAB CONSTRUCTION.

8. CONCRETE ANCHORS SHALL BE TAPCON REDHEAD LDT 1/2" x 5" OR EQUIVALENT OR WELT ANKR-TITE MODEL AT1252, OR SLEEVE ANCHOR MODEL HSA 1260, OR EQUIVALENT.

9. POST/RAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS.

10. SLAB FOUNDATION SUBGRADE SOILS SHALL BE TERMITES TREATED AND COVERED WITH 6 MIL VAPOR RETARDER PER SECTION R318.1.1 OF THE FBC SEVENTH EDITION (2020) - RESIDENTIAL, AND SECTION 1816.1.1 OF THE FBC SEVENTH EDITION (2020) - BUILDING. MINIMUM ALLOWABLE FOUNDATION SOIL CONTACT BEARING PRESSURE OF 2,000 PSF IS ASSUMED.

11. 14 GA FRAMING: 2-1/4" x 2-1/2" TUBE STEEL (TS) WITH 2-1/4" x 2-1/4" TS NIPPLES.

12. 12 GA FRAMING: 2-1/4" x 2-1/4" TS WITH 2-1/4" x 2-1/4" 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 HIGHER OF INTERIOR 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 305 SQUARE FEET OF ENCLOSED AREA. SEE TYPICAL FLOOD VENT FRAMING PLAN, SHEET 5 OF 6.

TABLE 1

AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS OR GIRTS (INCHES)

MAXIMUM POST / RAFTER SPACING (FEET)	INTERIOR POSTS/RAFTERS	END POSTS/RAFTERS
5.0	6	6
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 18 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" (1:6.12 to 6:12 pitch). Spacing requirements for other roof heights and/or slopes may vary.

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.
605 WEST NEW YORK AVENUE
DELAND, FLORIDA 32720
Certificate of Authorization No. 00005482

DETAILS 1C AND 1D SHOWN ON SHEET 4 OF 6

30' Anchor
Detail 1C

48' Anchor
Detail 1C

60' Anchor
Detail 1C

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 FLORIDA BUILDING CODE, SEVENTH EDITION (2020).

LOVE B. HAYES
LICENSED PROFESSIONAL ENGINEER
No. 00705
BECHTOL ENGINEERING AND TESTING, INC.
605 WEST NEW YORK AVENUE
DELAND, FLORIDA 32720
STATE OF FLORIDA

CAROLINA CARPORTS, INC.

GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

DATE	2/21/2023
DESIGN	NTS
CHECK	MNB
DESIGNED BY	TRB/CS
PROJECT	TRB/CS
DATE	03/20/21
PROJECT	TRB/CS
DATE	03/20/21
PROJECT	TRB/CS
DATE	03/20/21
PROJECT	TRB/CS
DATE	03/20/21
PROJECT	TRB/CS
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DATE	03/20/21</

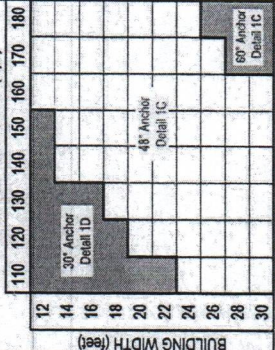
TABLE 1
RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS

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)
I	C	110 TO 150	89 TO 116	5.0	6
		151 TO 180	117 TO 139	4.0	6

NOTES: 1. Specifications applicable to 26 gauge metal roof and wall panels fastened directly to 12 or 14 gauge steel tube framing, or 18 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° (1.6:12 to 6:12 pitch). Spacing requirements for other roof heights and/or slopes may vary.

METAL CARPORT INSTALLATION PLANS AND DETAILS AND FRAMING AND FASTENER SPECIFICATIONS

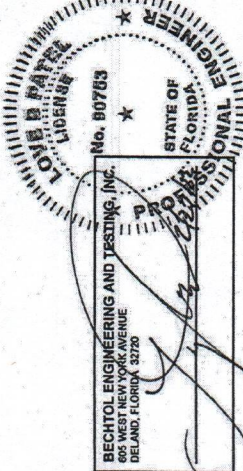
FOR CONSTRUCTION IN THE STATE OF FLORIDA
PREPARED FOR:
CAROLINA CARPORTS, INC.
P.O. BOX 1283
DOBSON, NORTH CAROLINA 27017
PREPARED BY:
BECHTOL ENGINEERING AND TESTING, INC.
605 WEST NEW YORK AVENUE
DELAND, FLORIDA 32720
Certificate of Authorization No. 00005492



DETAILS 1C AND 1D SHOWN ON SHEET 4 OF 6

GENERAL NOTES:

- THESE PLANS PERTAIN ONLY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM, COMPONENTS AND CLADDING, AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING BUT NOT LIMITED TO PLUMBING, ELECTRICAL, INGRESS/EGRESS, PROPERTY SETBACKS, FINISH FLOOR ELEVATION AND SLOPE, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE RESPONSIBILITY OF OTHERS.
- THESE STRUCTURES ARE DESIGNED AS NON-HABITABLE UTILITY/STORAGE BUILDINGS (RISK CATEGORY 1) CAPABLE OF SUPPORTING DEAD LOAD OF THE STRUCTURE AND APPLICABLE LIVE AND WIND LOADS. IMPROVEMENTS NOT SPECIFICALLY ADDRESSED HEREIN, INCLUDING DOORS, WINDOWS, OR OTHER COMPONENTS NOT LISTED IN THE FBC APPROVED PRODUCTS LIST (THIS SHEET), AND NOT PROVIDED AND INSTALLED BY CAROLINA CARPORTS, INC., WHICH EXERT ADDITIONAL LOADS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK. BECHTOL ENGINEERING AND TESTING, INC., SHALL NOT BE RESPONSIBLE FOR STRUCTURAL DAMAGE OR FAILURE DUE TO THE APPLICATION OF ADDITIONAL LOADS.
- ALL STEEL TUBING SHALL BE 50 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 FIELD FRAMING CONNECTIONS SHALL BE #12-14 x 3/4" SELF DRILLING SCREWS WITHOUT CONTROL SEAL WASHER. ALL SHOP FRAMING CONNECTIONS SHALL BE WELDED.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40. CONCRETE SLAB FOUNDATIONS SHALL BE REINFORCED WITH 6X6-W1 4XW1 4 WELDED WIRE FABRIC COMPLYING WITH ASTM A 185, OR WITH SYNTHETIC FIBER REINFORCEMENT COMPLYING WITH ASTM C1116.
- BASE RAIL GROUND ANCHOR REQUIREMENTS: ONE ANCHOR AT EACH END OF EACH RAIL SECTION, AND BOTH SIDES OF OPENINGS WHERE BASE RAIL 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 TAPCON REDHEAD LDT 1/2" x 5" OR EQUIVALENT OR WELT-IT ANK-TITE MODEL AT1252, OR SLEEVE ANCHOR MODEL HSA 1260, OR EQUIVALENT.
- POST/RAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS.
- SLAB FOUNDATION SUBGRADE SOILS SHALL BE TERMITES TREATED AND COVERED WITH 6 MIL VAPOR RETARDER PER SECTION R318.1.1 OF THE FBC SEVENTH EDITION (2020). RESIDENTIAL, AND SECTION 1916.1.1 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 2-1/4" x 2-1/4" TS NIPPLES.
12 GA FRAMING: 2-1/4" x 2-1/4" TS WITH 2" x 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 HIGHER OF INTERIOR 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 305 SQUARE FEET OF ENCLOSED AREA. SEE TYPICAL FLOOD VENT FRAMING PLAN, SHEET 5 OF 6.

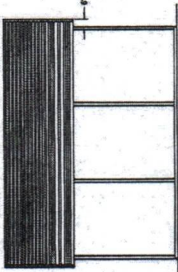
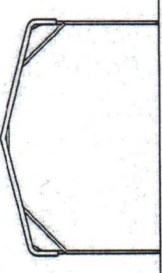
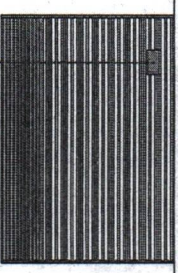
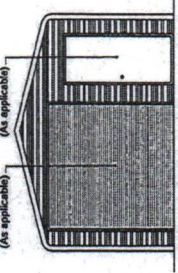
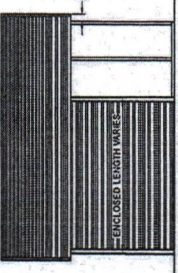
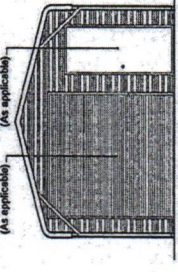
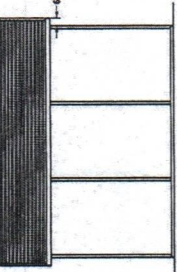
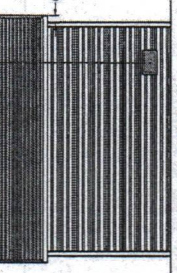
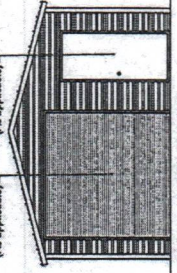
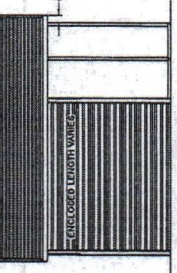
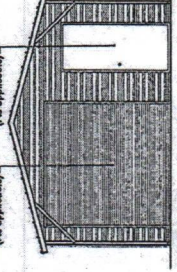
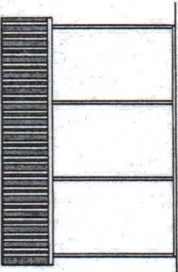
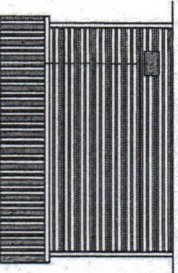
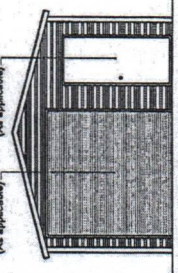
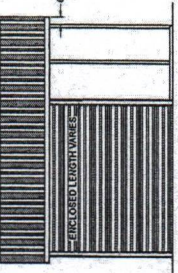
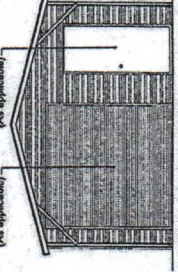
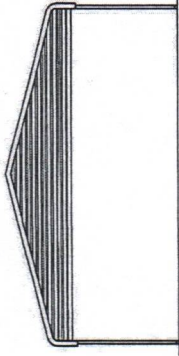
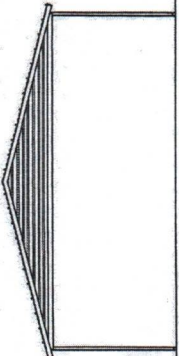
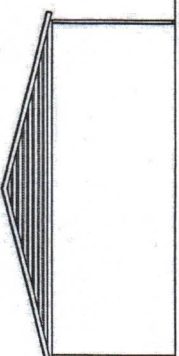


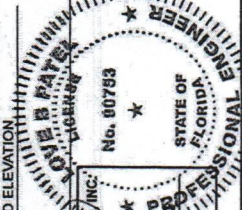
BECHTOL ENGINEERING AND TESTING, INC.
605 WEST NEW YORK AVENUE
DELAND, FLORIDA 32720

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

DATE	2/21/2023
REVISION	NTS
DESIGN	MBG
CHECK	TB/CS
DATE	03/30/21
APPROVED	TB/UP

BECHTOL ENGINEERING AND TESTING, INC.
CORPORATE OFFICE: 605 WEST NEW YORK AVENUE, DELAND, FLORIDA 32720
LOCAL OFFICES: 1000 N. W. 10TH AVE., MIAMI, FLORIDA 33136

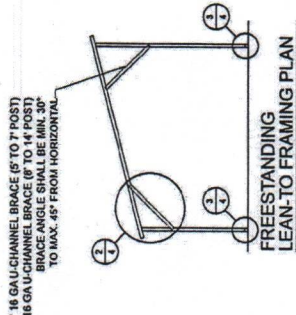
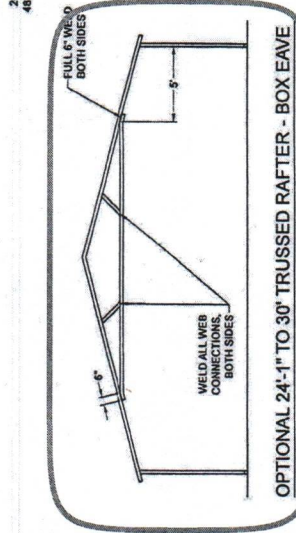
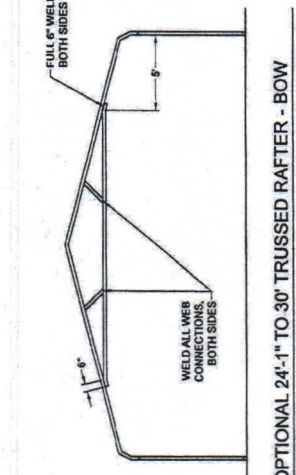
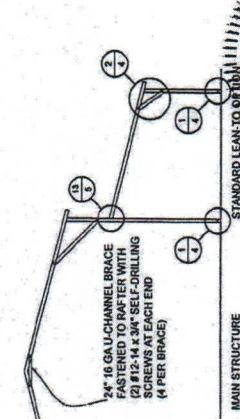
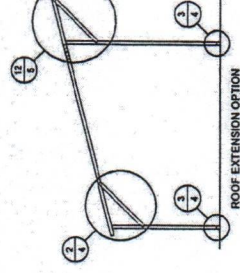
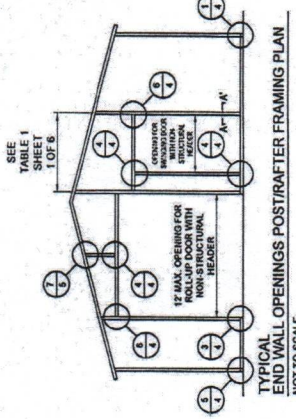
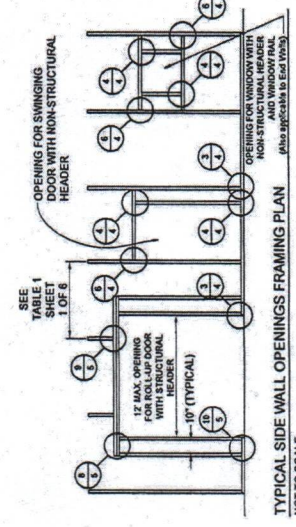
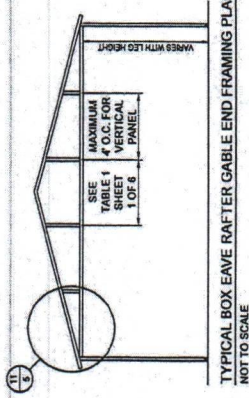
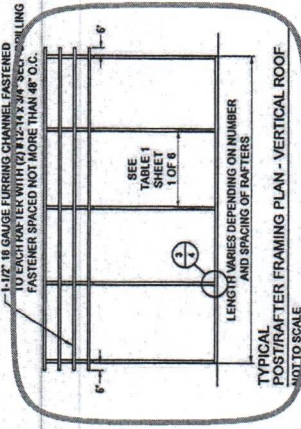
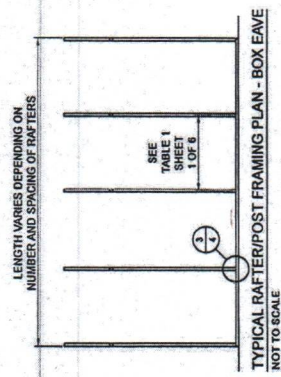
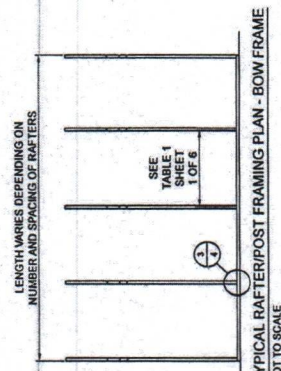
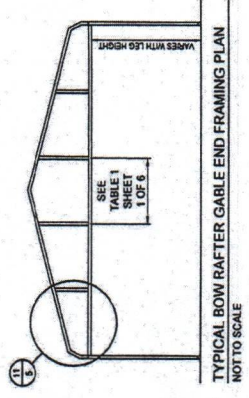
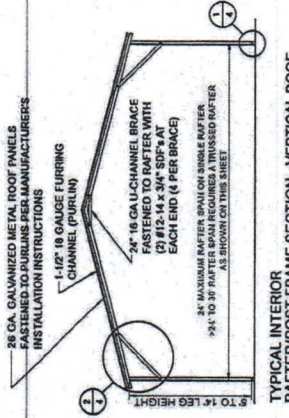
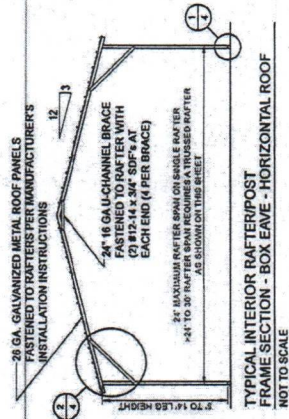
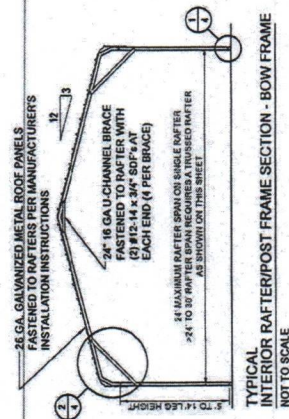
BOW FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF  TYPICAL SIDE ELEVATION NOT TO SCALE  TYPICAL END ELEVATION NOT TO SCALE	BOW FRAME RAFTER ENCLOSED BUILDING - HORIZONTAL ROOF  TYPICAL SIDE ELEVATION NOT TO SCALE  TYPICAL END ELEVATION NOT TO SCALE	BOW FRAME RAFTER UTILITY BUILDING - HORIZONTAL ROOF  TYPICAL SIDE ELEVATION NOT TO SCALE  TYPICAL END ELEVATION NOT TO SCALE
BOX EAVE FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF  TYPICAL SIDE ELEVATION NOT TO SCALE  TYPICAL END ELEVATION NOT TO SCALE	BOX EAVE FRAME RAFTER ENCLOSED BLDG - HORIZONTAL ROOF  TYPICAL SIDE ELEVATION NOT TO SCALE  TYPICAL END ELEVATION NOT TO SCALE	BOX EAVE FRAME RAFTER UTILITY BLDG - HORIZONTAL ROOF  TYPICAL SIDE ELEVATION NOT TO SCALE  TYPICAL END ELEVATION NOT TO SCALE
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 TYPICAL BOW RAFTER GABLE END ELEVATION NOT TO SCALE	 TYPICAL BOX EAVE RAFTER GABLE END ELEVATION NOT TO SCALE	 TYPICAL BOX EAVE RAFTER GABLE END ELEVATION NOT TO SCALE



BECHTOL ENGINEERING AND TESTING, INC.
10000 W. BOULEVARD
DELANDA, FLORIDA 32720

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

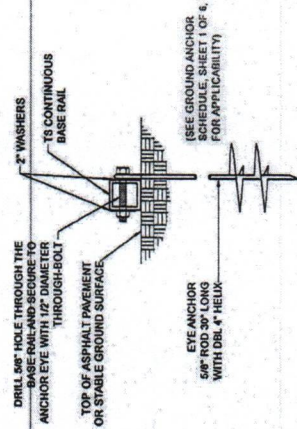
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DESIGN	NTS
PROJECT	MBG
CONTRACT	TS / CS
REVISION	TS / LP
SHEET 7 OF 8	



BECHTEL ENGINEERING AND TESTING, INC.
605 WEST NEW YORK AVENUE
DELAND, FLORIDA 32726

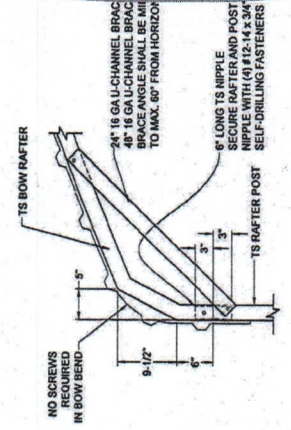
CAROLINA CARPORTS, INC.
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

 BECHTOL ENGINEERING AND TESTING, INC. CONSULTING GEOTECHNICAL ENGINEERS, AND SPECIALTY TESTING SERVICES One Union Avenue • Portland, Oregon 97208		DATE 2/21/2023
DRAWN MKB	SCALE NTS	SHEET NO. G23001
CHECKED TB / CS	TB / LP	SHEET 3 OF 6



1C BASE RAIL DEEP ANCHORAGE
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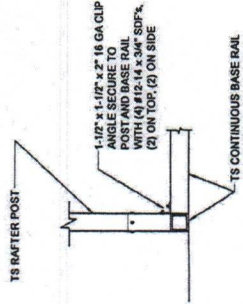
1D **BASE RAIL ANCHORAGE**
Not To Scale



2A) BOX EAVE RAFTER/POST DETAIL

2B **BOW RAFTER/POST DETAIL**
Not To Scale

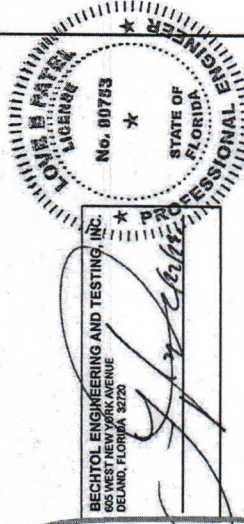
3 POST/BASE RAIL CONN. DETAIL



POST TO RAIL, TRUSS CHORD, OR
NON-STRUCTURAL HEADER CONN. DETAILS

5 END POST/BASE RAIL CONN. Not To Scale

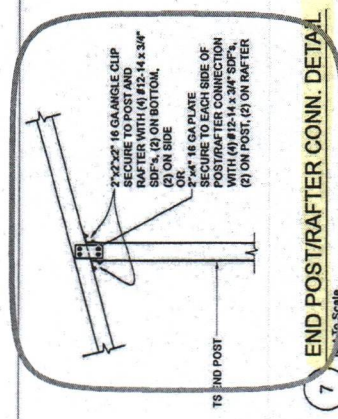
6 NON-STRUCTURAL HEADER, WINDOW RAIL, OR GIRT TO POST CONN. DETAIL
Not To Scale



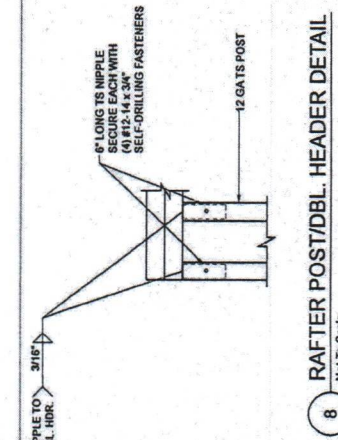
CAROLINA CARPORTS, INC.

GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

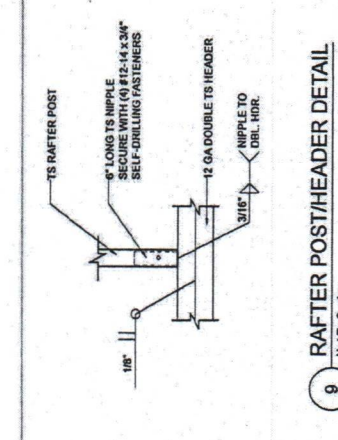
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	PROJ. NO.	GZ2001
	DATE	04/20/19
	TRIP	TRIP



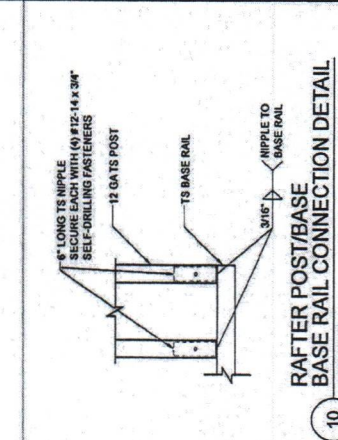
7 END POST/RAFTER CONN. DETAIL
Not To Scale



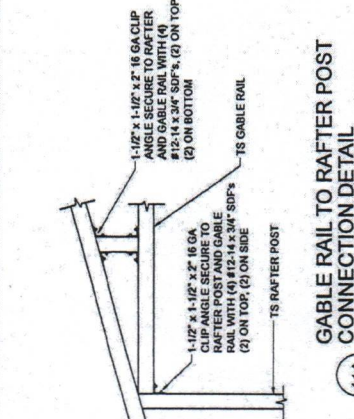
8 RAFTER POST/DBL. HEADER DETAIL
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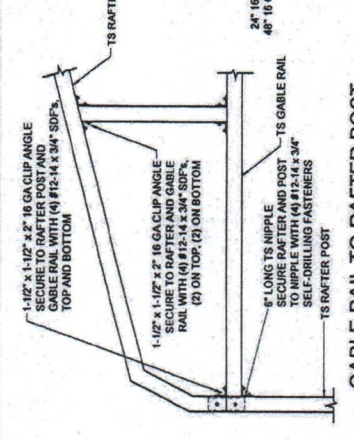
9 RAFTER POST/HEADER DETAIL
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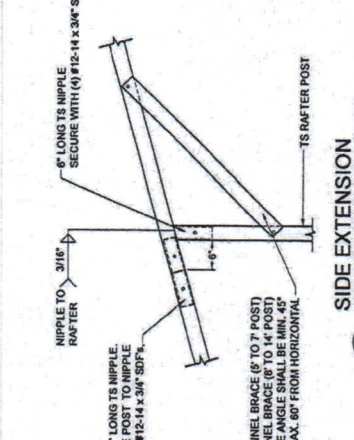
10 RAFTER POST/BASE BASE RAIL CONNECTION DETAIL
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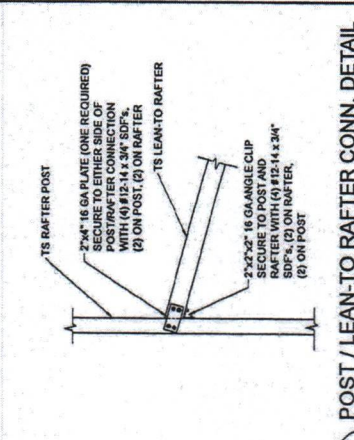
11A GABLE RAIL TO RAFTER POST CONNECTION DETAIL
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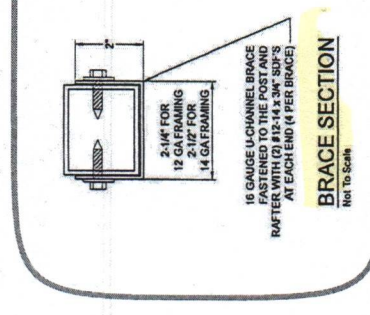
11B GABLE RAIL TO RAFTER POST CONNECTION DETAIL
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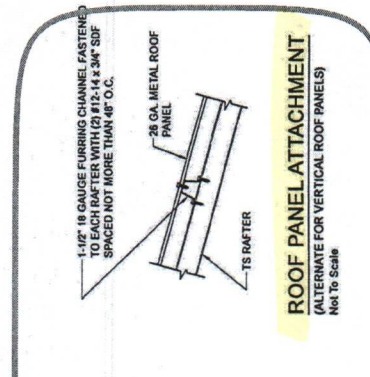
12 SIDE EXTENSION RAFTER/POST DETAIL
Not To Scale



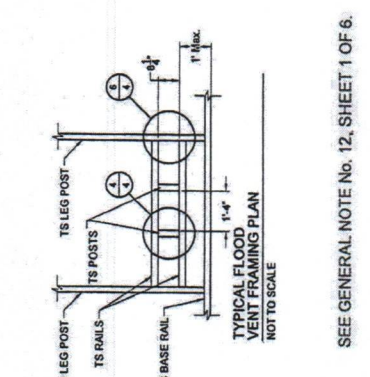
13 POST / LEAN-TO RAFTER CONN. DETAIL
Not To Scale



11A BRACE SECTION
Not To Scale



11B ROOF PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
Not To Scale



12 TYPICAL FLOOD VENT FRAMING PLAN
NOT TO SCALE

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

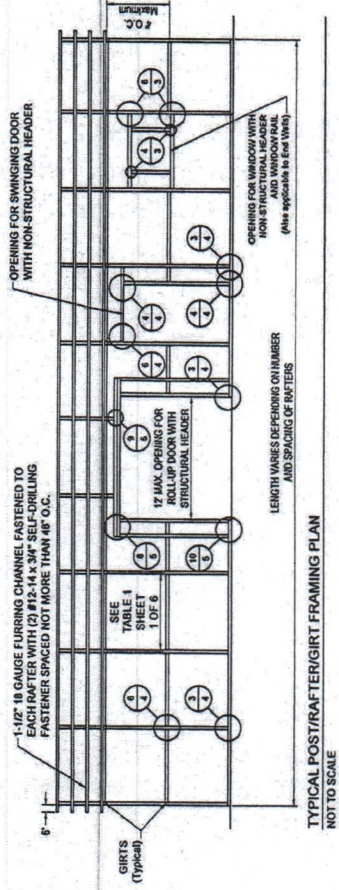
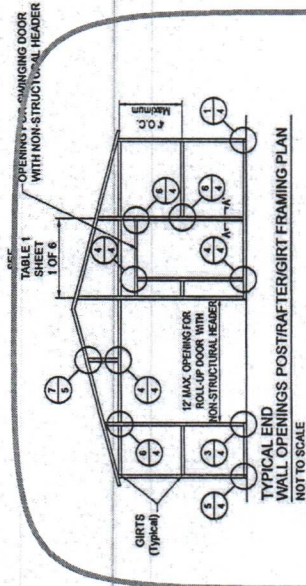
Professional Engineer
No. 90753
STATE OF FLORIDA

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

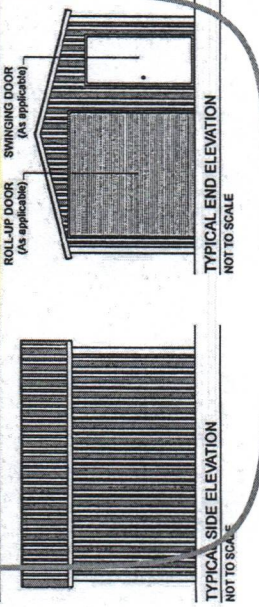
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BY	NTS
CHKD BY	MMB
APP'D BY	TS / CS
PROJECT	TS / LP
SHEET	5 OF 5

SEE GENERAL NOTE No. 12, SHEET 1 OF 5.

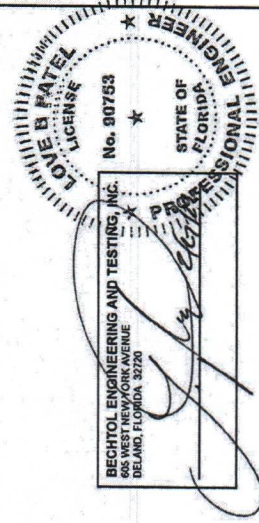
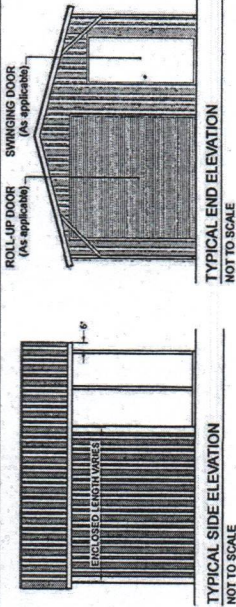
VERTICAL SIDE OPTION



BOX EAVE FRAME RAFTER ENCLOSED BLDG - VERTICAL SIDES



BOX EAVE FRAME RAFTER UTILITY BLDG - VERTICAL SIDES



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

DATE	2/21/2023
DESIGNER	MTS
CHECKER	NTS
PROJECT	023001
REVISION	10/1/19
PROJECT	10/1/19
SHEET	6 OF 6

BECHTOL ENGINEERING AND TESTING, INC.
 600 WEST 10TH AVENUE
 DE LAND, FLORIDA 32720
 (407) 291-1111
 www.bechtol.com