

FBC APPROVED PRODUCTS LIST

PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL NO. & DATE	QA EXPIRATION DATE	OPEN	ENCLOSED	PARTIALLY ENCLOSED
STRUCTURAL COMPONENTS	ROOF DECK	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL16596, 1-R8 12/15/20	04/05/27	180	180	180
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL16702, 1-R8 12/15/20	03/14/27	180	180	180
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge Ducton Lap Wall Panel	FL16702, 3-R8 12/15/20	03/14/27	N/A	164	143
STRUCTURAL COMPONENTS	FLOOD VENT	CRAWL SPACE DOOR SYSTEMS, INC. 16x8 Flood Vent	FL128562, 1 05/15/19	09/30/22	N/A	N/A	N/A
EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY Series 402-14	FL17996, 3-R1 02/04/18	09/14/20	N/A	155	138
EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY Series 407	FL17996, 5-R1 02/04/18	09/14/20	N/A	165	147
EXTERIOR DOORS	ROLL-UP	ASTA INDUSTRIES INC. Model 203 (12' Max. Width)	FL18888, 1-R8 12/23/20	12/31/21	N/A	180	174
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Steel Door (12' Max. Width)	FL16806, 1-R5 12/15/20	04/05/29	N/A	158	138
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Steel Door - (8' Max. Width)	FL16806, 3-R5 12/15/20	04/05/27	N/A	160	180
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Steel Door - (16' Max. Width)	FL16806, 3-R5 12/15/20	04/05/27	N/A	155	133
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Steel Door - (10' Max. Width)	FL16806, 4-R5 12/15/20	04/05/27	N/A	180	172
WINDOWS	SINGLE HUNG	Model 185SH	FL17499, 1-R8 11/27/20	10/17/23	N/A	175	157

MAXIMUM ALLOWABLE WIND SPEED

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

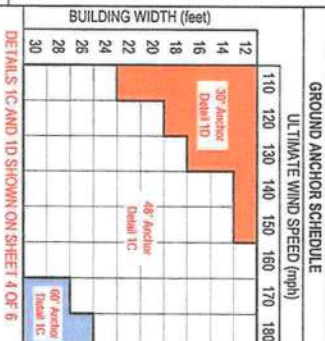
NOTES: 1. Specifications applicable to 26 gauge metal roof and wall panels fastened directly to 12 or 14 gauge steel tube framing, or 18 gauge steel tube framing, with a minimum roof height of 20 feet or less, and roof slopes of 7" to 27" (1.5:12 to 6:12 pitch). Spacing requirements for other roof heights and/or slopes may vary.
2. Spacing requirements are 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.

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 TC AND TD SHOWN ON SHEET 4 OF 6

1. THESE PLANS PERTAIN ONLY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM, COMPONENTS AND CLADDING, AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES ARE 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 UTILITIES/STORAGE BUILDINGS (RISK CATEGORY 1) CAPABLE OF SUPPORTING DEAD LOAD OF THE STRUCTURE AND APPLICABLE LIVE LOADS AND WIND LOADS. THE DESIGN IS BASED ON THE ASSUMPTION THAT THE STRUCTURE WILL BE USED AS A STORAGE BUILDING AND NOT AS A DWELLING OR OFFICE BUILDING. THE DESIGN IS BASED ON THE ASSUMPTION THAT THE STRUCTURE WILL BE USED AS A STORAGE BUILDING AND NOT AS A DWELLING OR OFFICE BUILDING.

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

4. ALL COMPONENTS AND CLADDING SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND SHALL MEET THE DESIGN PRESSURES REQUIRED BY THE FBC SEVENTH EDITION (2020).

5. ALL FIELD FRAMING CONNECTIONS SHALL BE #12-14 x 3/4\"/>

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 ARE 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.
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5. ALL FIELD FRAMING CONNECTIONS SHALL BE #12-14 x 3/4\"/>



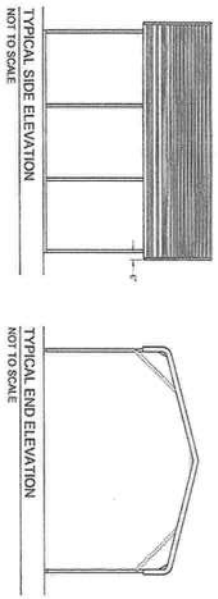
BECHTOL ENGINEERING AND TESTING, INC.
605 WEST NEW YORK AVENUE
DELAND, FLORIDA 32720
FLORIDA LICENSE NO. 36530

CAROLINA CARPORTS, INC.

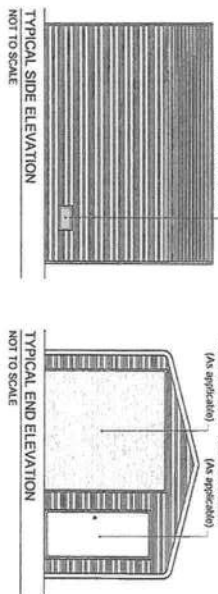
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

DATE	01/05/2021
DESIGNED BY	MTS
CHECKED BY	MTS
DATE	02/20/21
PROJECT NO.	18
SHEET	1 OF 6

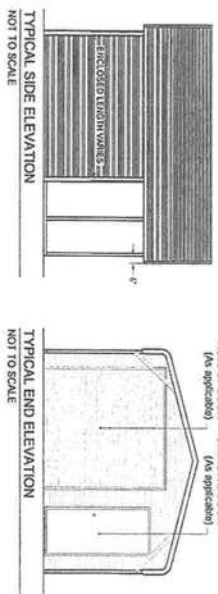
BOW FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF



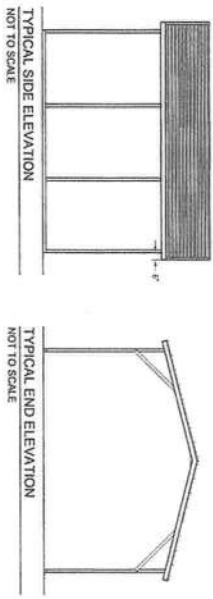
BOW FRAME RAFTER ENCLOSED BUILDING - HORIZONTAL ROOF



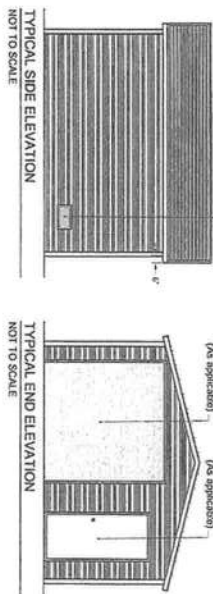
BOW FRAME RAFTER UTILITY BUILDING - HORIZONTAL ROOF



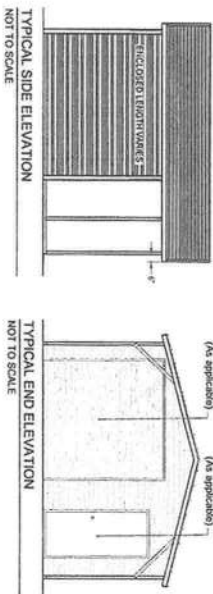
BOX EAVE FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF



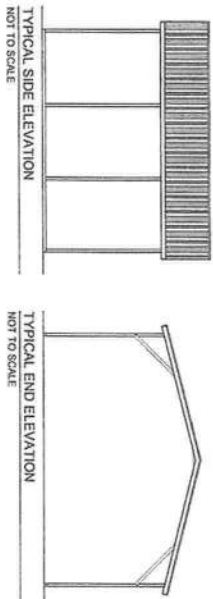
BOX EAVE FRAME RAFTER ENCLOSED BLDG - HORIZONTAL ROOF



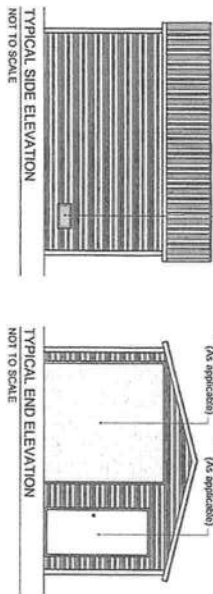
BOX EAVE FRAME RAFTER UTILITY BLDG - HORIZONTAL ROOF



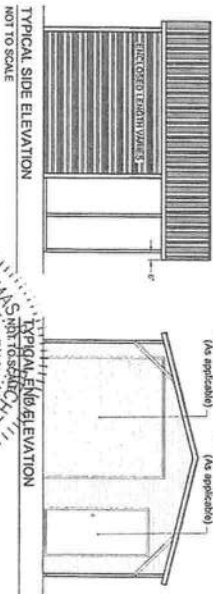
BOX EAVE FRAME RAFTER OPEN CARPORT - VERTICAL ROOF



BOX EAVE FRAME RAFTER ENCLOSED BLDG - VERTICAL ROOF



BOX EAVE FRAME RAFTER UTILITY BLDG - VERTICAL ROOF



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

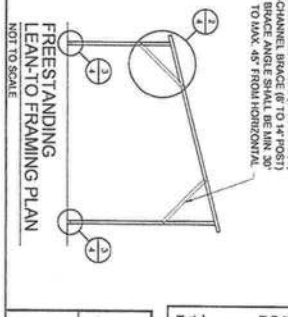
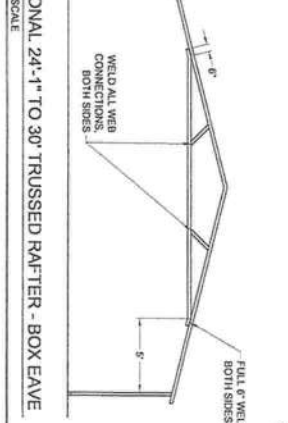
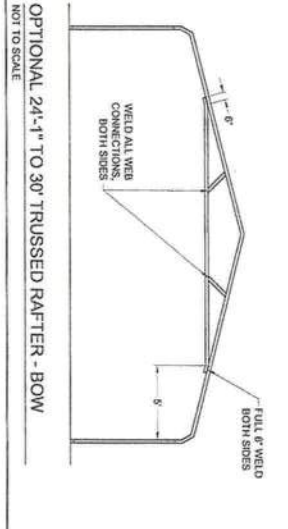
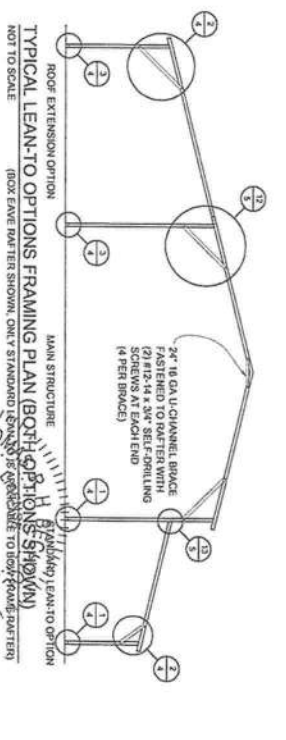
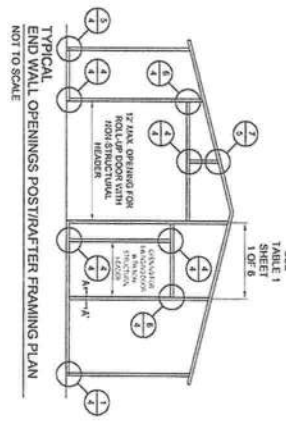
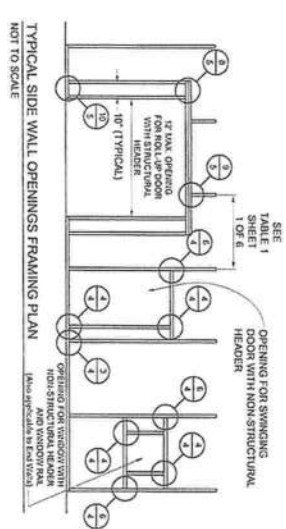
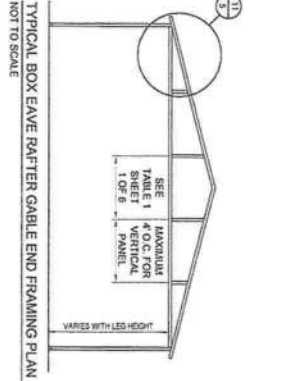
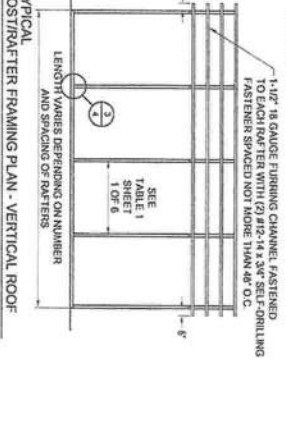
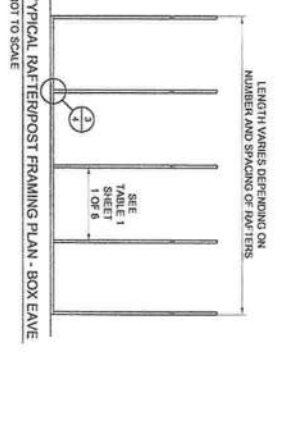
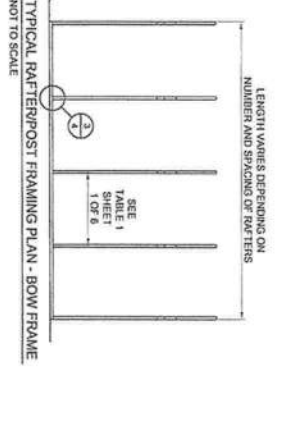
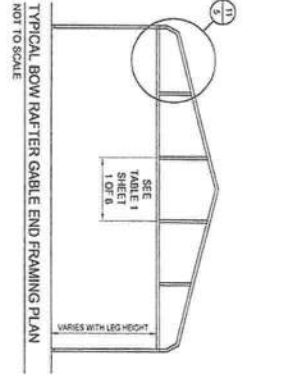
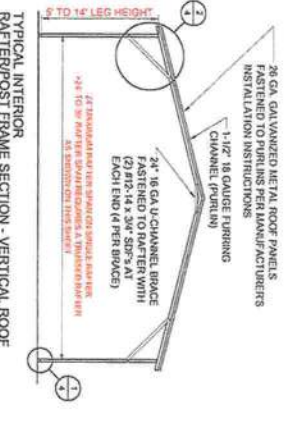
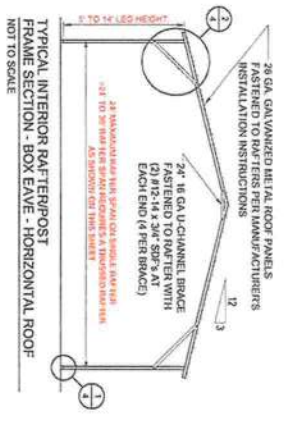
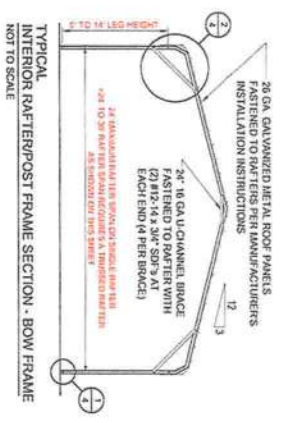
CAROLINA CARPORTS, INC.
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

BECHTOL ENGINEERING
AND TESTING, INC.
DESIGN & CONSTRUCTION SERVICES

DATE: 01/05/2021
PROJECT: NIS
SHEET: 021001
SHEET 2 OF 6

BECHTOL ENGINEERING AND TESTING, INC.
605 WEST NEW YORK AVENUE
DELAND, FLORIDA 31702
FLORIDA LICENSE NO. 30887

STATE OF FLORIDA
REGISTERED PROFESSIONAL ENGINEER
THOMAS J. BECHTOL
LICENSE NO. 12410



CAROLINA CARPORTS, INC.

GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

BECHTEL ENGINEERING AND TESTING, INC.

605 WEST NEW YORK AVENUE

DELAND, FLORIDA 33702

Florida License No. 28838

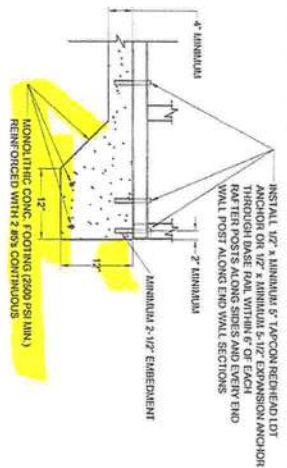
Professional Engineer

DATE: 01/05/2021

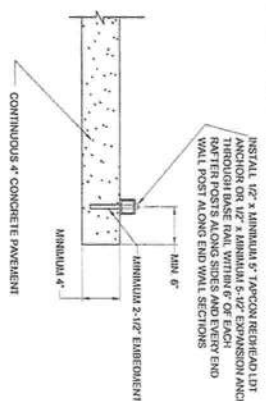
DESIGN: NTS

REVISION: 02/2001

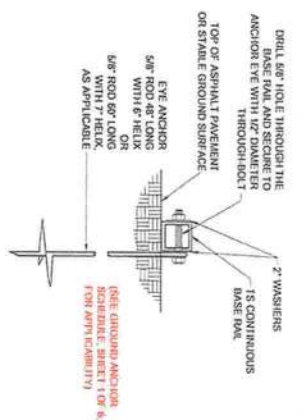
SHEET 3 OF 6



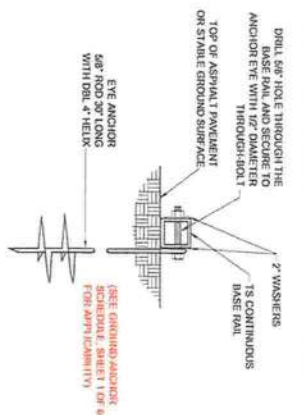
1A
Not To Scale
CONCRETE BASE RAIL ANCHORAGE



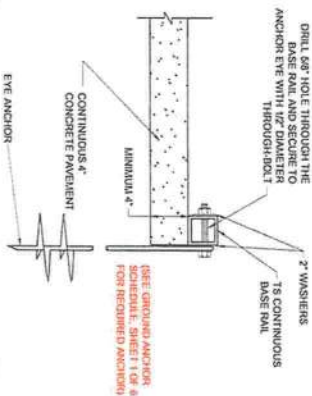
1B
CONCRETE BASE RAIL ANCHORAGE
NOT TO SCALE
(OPTIONAL - OPEN CAUTIONS ONLY)



1C BASE RAIL DEEP ANCHORAGE
Not To Scale



1D BASE RAIL ANCHORAGE
NOT TO SCALE

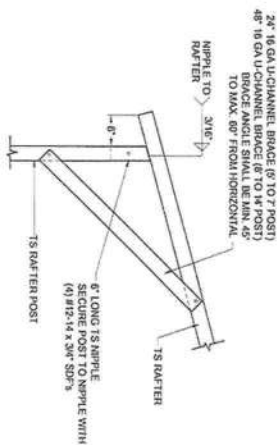


CONCRETE BASE RAIL ANCHORAGE

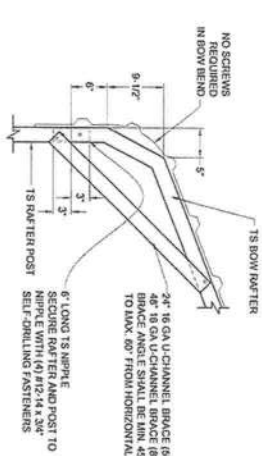
1E

NOT TO SCALE

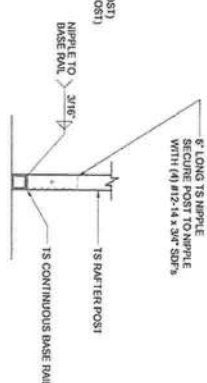
(OPEN CARPORTS WHERE SLAB EDGE DISTANCE DOES NOT MEET MINIMUM EDGE DISTANCE SHOWN IN DETAIL 11)



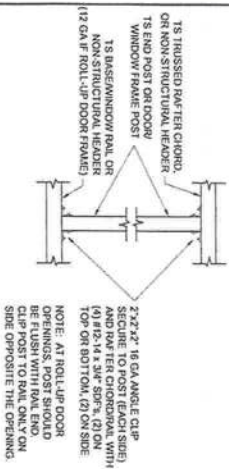
2A
BOX EAVE RAFTER/POST DETAIL
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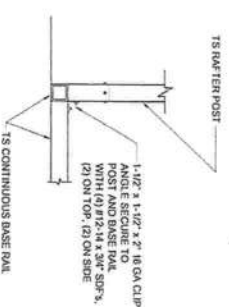
2B BOW RAFTER/POST DETAIL
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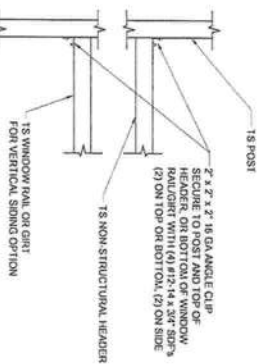
3 POST/BASE RAIL CONN. DETAIL
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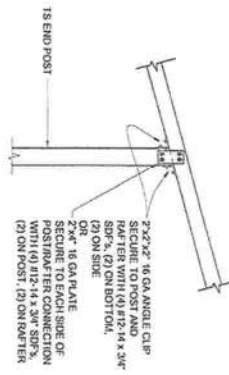
4 POST TO RAIL, TRUSS CHORD, OR NON-STRUCTURAL HEADER CONN. DETAIL
Not To Scale



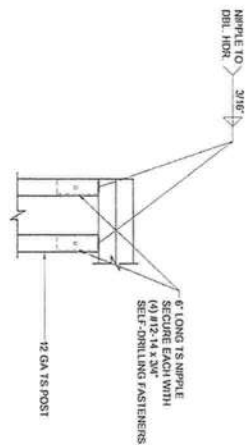
5 END POST/BASE RAIL CONN.
Not To Scale



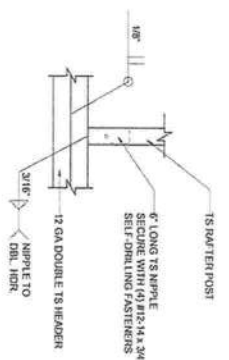
6 RAIL, OR GIRT TO POST CONN. DETAIL
Not To Scale



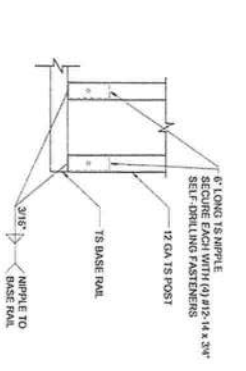
7
END POST/RAFTER CONN. DETAIL
Not To Scale



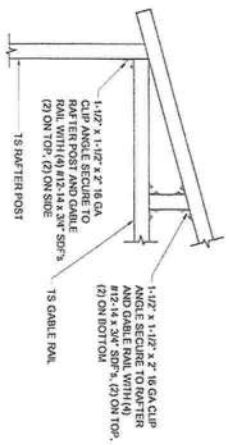
8
RAFTER POST/DBL. HEADER DETAIL
Not To Scale



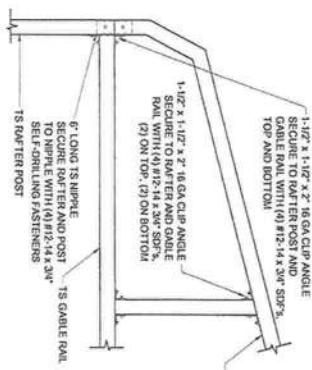
9
RAFTER POST/HEADER DETAIL
Not To Scale



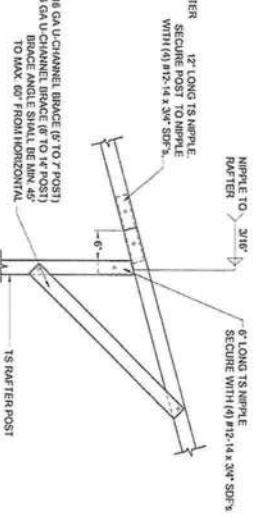
10
RAFTER POST/BASE GABLE RAIL CONNECTION DETAIL
Not To Scale



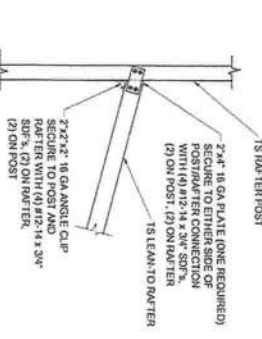
11A
GABLE RAIL TO RAFTER POST CONNECTION DETAIL
Not To Scale



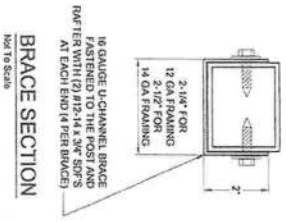
11B
GABLE RAIL TO RAFTER POST CONNECTION DETAIL
Not To Scale



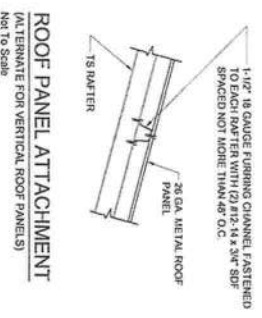
12
SIDE EXTENSION RAFTER/POST DETAIL
Not To Scale



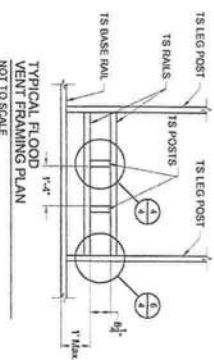
13
POST / LEAN-TO RAFTER CONN. DETAIL
Not To Scale



BRACE SECTION
Not To Scale



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



SEE GENERAL NOTE No. 12, SHEET 1 OF 6

BECHTOL ENGINEERING AND TESTING, INC.
10000 BECHTOL DRIVE
DELMON, FLORIDA 32728
TEL: 407-255-1000
FAX: 407-255-1001
WWW.BECHTOL-TESTING.COM

CAROLINA CARPORTS, INC.

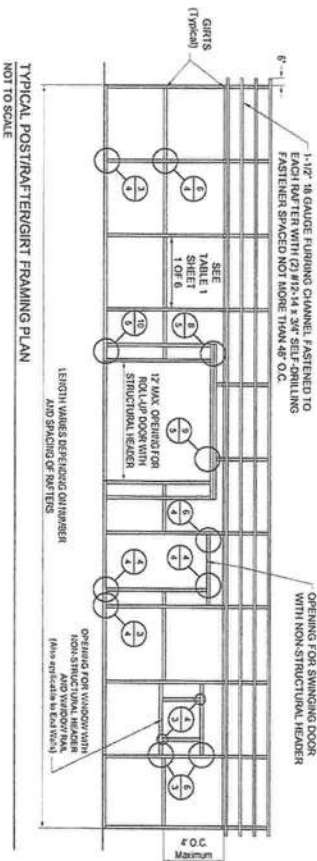
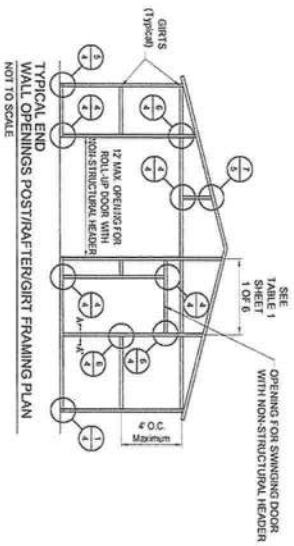
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

BECHTOL ENGINEERING
ADD TESTING, INC.

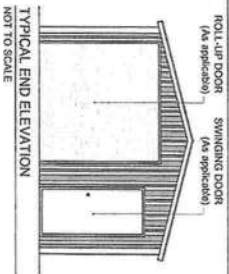
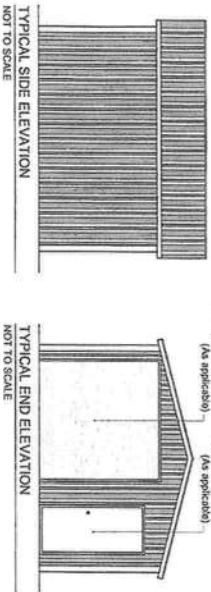
DATE	01/05/2021
DESIGN	NTS
PROJECT ID	Q21001
VERSION	1B

SHEET 5 OF 6

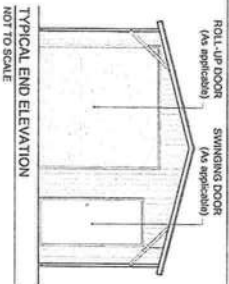
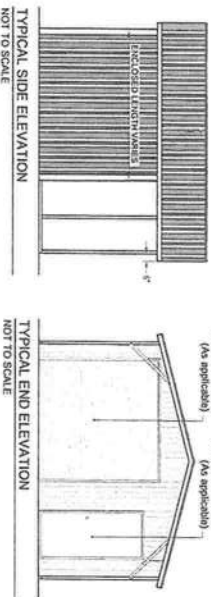
VERTICAL SIDE OPTION



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

BECHTOL ENGINEERING
ADD TESTING, INC.
FLORIDA LICENSE NO. 2022
THOMAS R. H. BECHTOL
PROFESSIONAL ENGINEER
FLORIDA LICENSE NO. 2022

DATE: 01/05/2021
SCALE: NTS
PROJECT: 211001
SHEET 6 OF 6