

FBC APPROVED PRODUCTS LIST

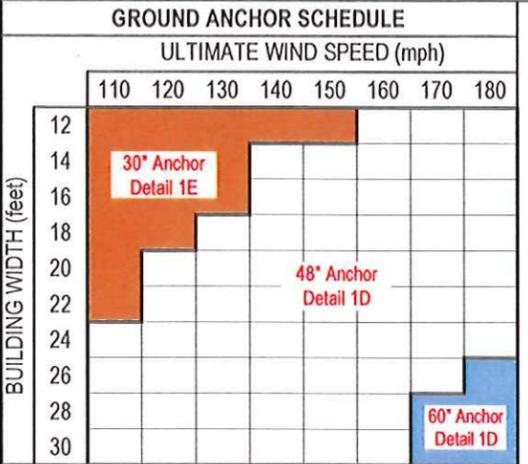
MAXIMUM ALLOWABLE WIND SPEED

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

PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE	QA EXPIRATION DATE	MAXIMUM ALLOWABLE WIND SPEED		
					OPEN	ENCLOSED	PARTIALLY ENCLOSED
STRUCTURAL COMPONENTS	ROOF DECK	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6596.1-R7 12/12/23	04/05/27	180	180	180
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6702.1-R7 12/12/23	03/14/27	180	180	180
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge Dutch Lap Wall Panel	FL6702.3-R7 12/12/23 **	03/14/27	N/A	164	143
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CRAWL SPACE DOOR SYSTEMS, INC. 16x8 Flood Vent	FL29622.1-R2 07/24/24	09/30/25	N/A	N/A	N/A
EXTERIOR DOORS	SWINGING	POCAHONTAS ALUMINUM COMPANY, INC DD 100 Insulated Side Hinged Door	FL12903.1-R8 12/21/2023	11/05/25	N/A	120	110
EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY Series 402-14	FL17996.3-R3 12/26/23	08/26/25	N/A	139	139
EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY Series 407	FL17996.5-R3 12/26/23	08/19/25	N/A	174	155
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll Up Sheet Door (8' Max. Width)	FL16806.2-R6 12/13/23	04/05/27	N/A	180	180
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll Up Sheet Door - (10' Max. Width)	FL16806.4-R6 12/13/23	04/05/27	N/A	180	172
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll Up Sheet Door - (12' Max. Width)	FL16806.1-R6 12/13/23	04/05/27	N/A	179	154
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll Up Sheet Door - (16' Max. Width)	FL41335.1-R1 12/13/23	04/05/27	N/A	163	142
WINDOWS	SINGLE HUNG	CGI WINDOWS AND DOORS MODEL SH 4100A	FL23358.2-R8 04/16/24	12/31/32	N/A	174	156

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	B or C	110 TO 150	89 TO 116	5.0	6	6
		151 TO 170	117 TO 132	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° (1.5:12 to 6:12 pitch). Spacing requirements for other roof heights and/or slopes may vary.



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

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. 00005402



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.  
C. MEETS AND OR EXCEEDS THE MINIMUM DESIGN CRITERIA OF THE ABOVE APPROVED PRODUCT LIST.  
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.  
\*\* MAXIMUM POST SPACING FOR DUTCH LAP IS 4.0'

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 SET-BACKS, 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 I ONLY) 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 WITHIN 6" OF EVERY POST LOCATION, 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 GROUND ANCHOR SIZE REQUIREMENTS.
- CONCRETE ANCHORS SHALL BE TAPCON REDHEAD LDT 1/2" x 5" OR EQUIVALENT.
- POST/RAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS.
- SLAB FOUNDATION SUBGRADE SOILS SHALL BE TERMITE TREATED AND COVERED WITH 6 MIL VAPOR RETARDER PER SECTION R318.1 OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) - RESIDENTIAL, AND SECTION 1816.1 OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) - BUILDING. SOIL LOAD BEARING PRESSURE OF 2000PSF 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.
- FOR CONTINUOUS REINFORCING, MINIMUM BAR OVERLAP SHALL BE 40 BARS DIAMETERS ( 25" FOR #5 REBAR).
- TORNADO VELOCITY COMPLIANCE IS NOT REQUIRED FOR RISK I OR RISK II STRUCTURES PER SECTION R301.2.1.1 OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023)- RESIDENTIAL AND SECTION 1603.1.4 OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) - BUILDING, AND ASCE 7-22.
- 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 6 OF 6.

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, EIGHTH EDITION (2023).

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

Signature: *[Signature]* 5/20/2025

ISRAEL DE LA ROSA  
LICENSE No 101500  
PROFESSIONAL ENGINEER  
STATE OF FLORIDA

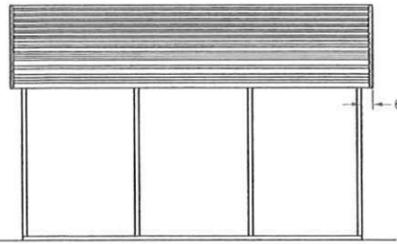
PLEASE NOTE: PLANS EXPIRE MIDNIGHT 12/31/25

**CAROLINA CARPORTS, INC.**  
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA  
UP TO 30' WIDE AND RISK CATEGORY I ONLY

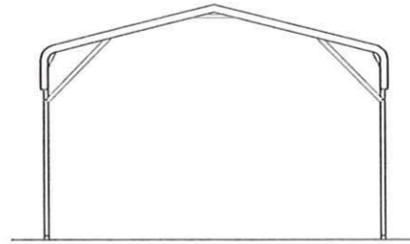
DESIGNED BY	DATE	1/2/2025
CHECKED BY	SCALE	NTS
APPROVED BY	PROJ. NO.	G25001
		SHEET 1 OF 6

BECHTOL ENGINEERING AND TESTING, INC.  
CONSULTING GEOTECHNICAL, ENVIRONMENTAL, AND MATERIALS TESTING ENGINEERS  
Certificate of Authorization No. 00005402

**BOW FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF**

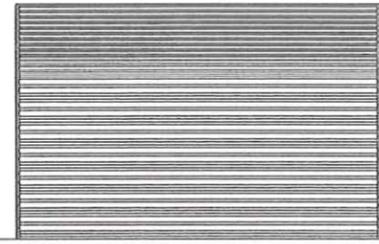


TYPICAL SIDE ELEVATION  
NOT TO SCALE

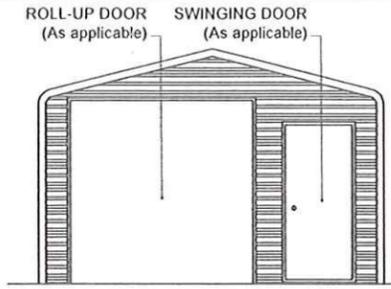


TYPICAL END ELEVATION  
NOT TO SCALE

**BOW FRAME RAFTER ENCLOSED BUILDING - HORIZONTAL ROOF**

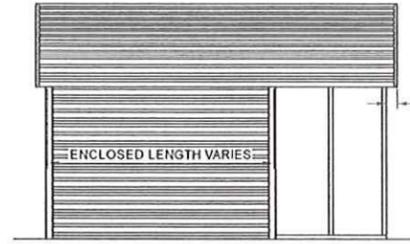


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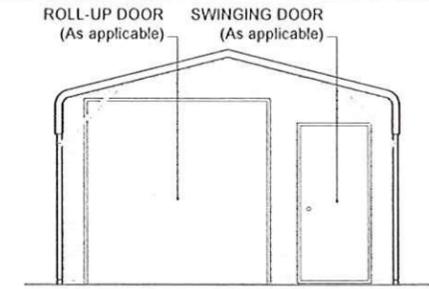


TYPICAL END ELEVATION  
NOT TO SCALE

**BOW FRAME RAFTER PARTIALLY OPEN / ENCLOSED BUILDING - HORIZONTAL ROOF**

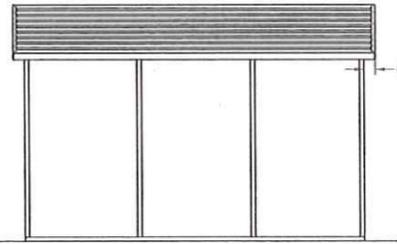


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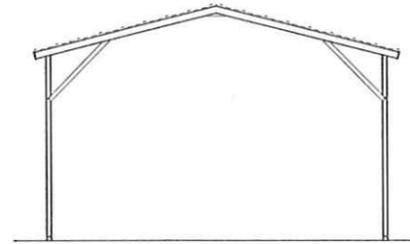


TYPICAL END ELEVATION  
NOT TO SCALE

**BOX EAVE FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF**

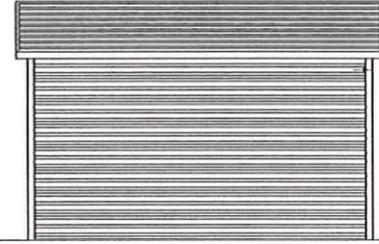


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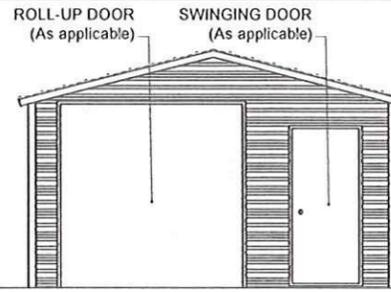


TYPICAL END ELEVATION  
NOT TO SCALE

**BOX EAVE FRAME RAFTER ENCLOSED BLDG - HORIZONTAL ROOF**

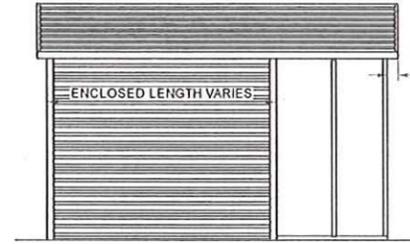


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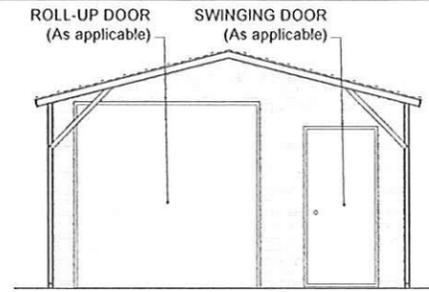


TYPICAL END ELEVATION  
NOT TO SCALE

**BOX EAVE FRAME RAFTER PARTIALLY OPEN / ENCLOSED BLDG - HORIZONTAL ROOF**

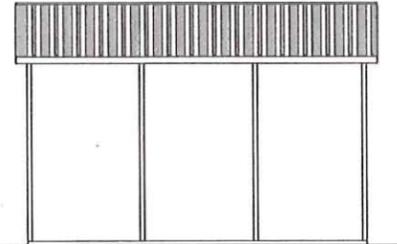


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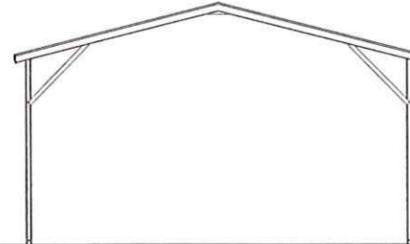


TYPICAL END ELEVATION  
NOT TO SCALE

**BOX EAVE FRAME RAFTER OPEN CARPORT - VERTICAL ROOF**

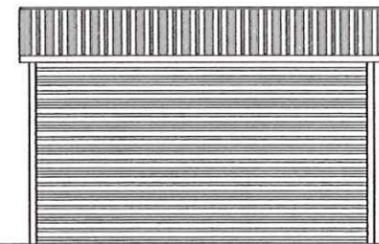


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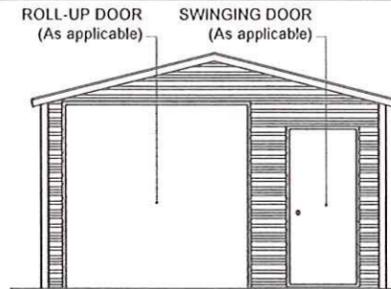


TYPICAL END ELEVATION  
NOT TO SCALE

**BOX EAVE FRAME RAFTER ENCLOSED BLDG - VERTICAL ROOF**

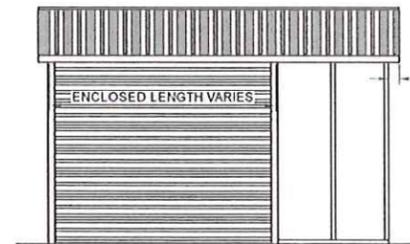


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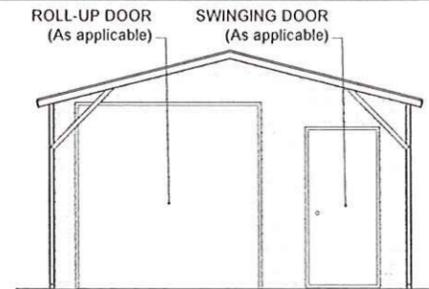


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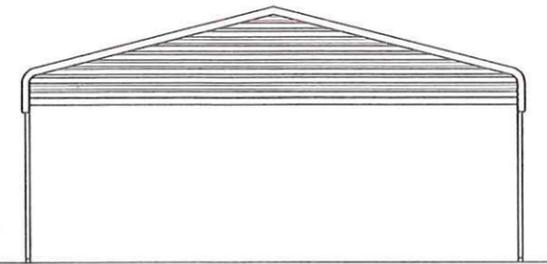
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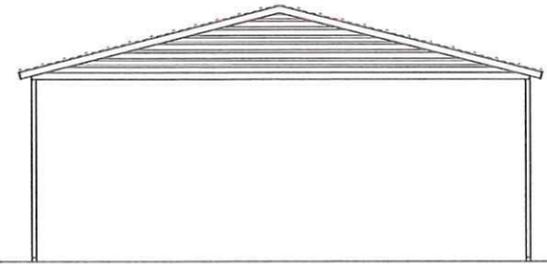
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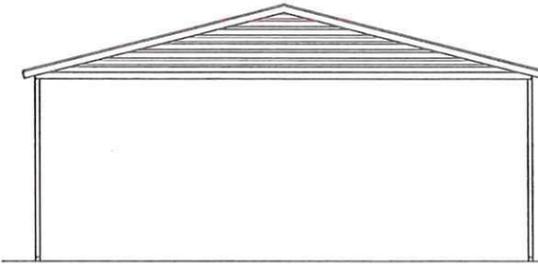
TYPICAL END ELEVATION  
NOT TO SCALE



TYPICAL BOW RAFTER GABLE END ELEVATION  
NOT TO SCALE



TYPICAL BOX EAVE RAFTER GABLE END ELEVATION  
HORIZONTAL ROOF  
NOT TO SCALE



TYPICAL BOX EAVE RAFTER GABLE END ELEVATION  
VERTICAL ROOF  
NOT TO SCALE

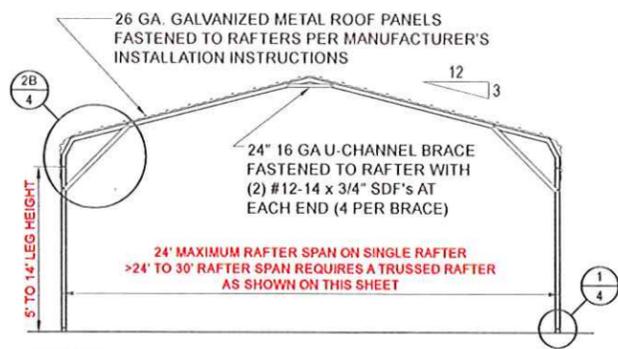
BECHTOL ENGINEERING AND TESTING, INC.  
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DELAND, FLORIDA 32720

ISRAEL DE LA ROSA  
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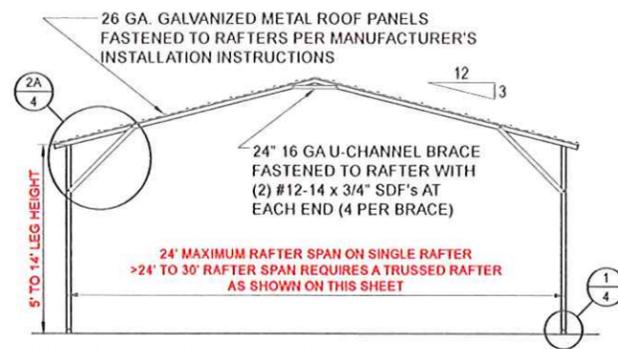
PLEASE NOTE: PLANS EXPIRE MIDNIGHT 12/31/25

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UP TO 30' WIDE AND RISK CATEGORY I ONLY

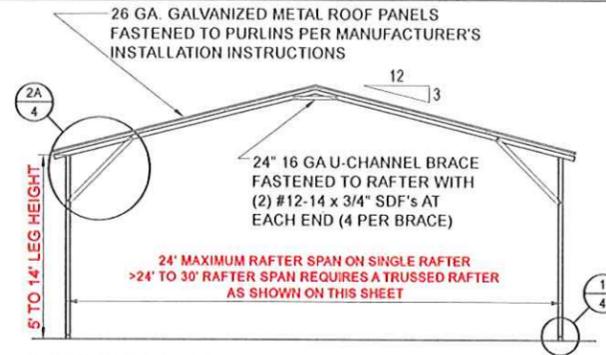
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	CS	1/2/2025
	CS/ID	SCALE NTS
	TB/LP/ID	PROJ. NO. G25001
APPROVED		SHEET 2 OF 6



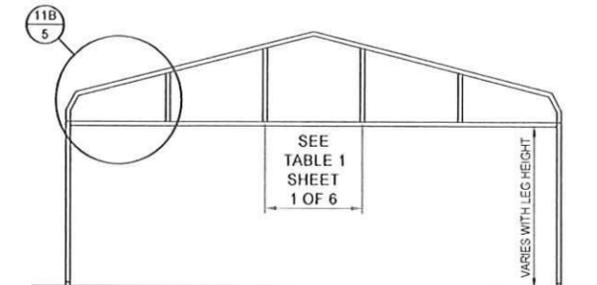
TYPICAL INTERIOR POST/RAFTER FRAME SECTION - BOW FRAME  
NOT TO SCALE



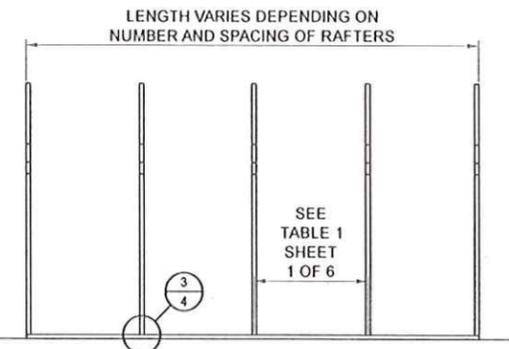
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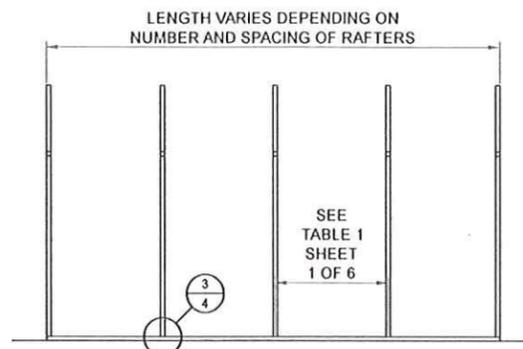
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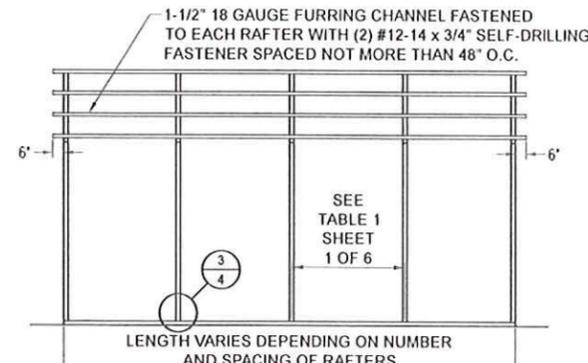
TYPICAL BOW RAFTER GABLE END FRAMING PLAN  
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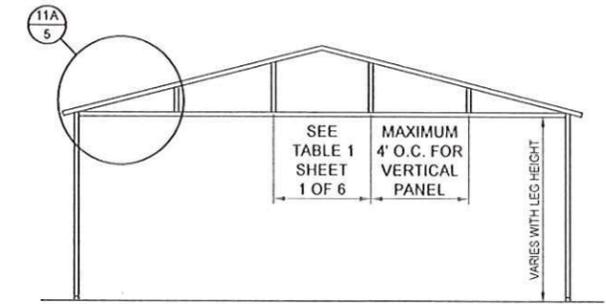
TYPICAL POST/RAFTER FRAMING PLAN - BOW FRAME  
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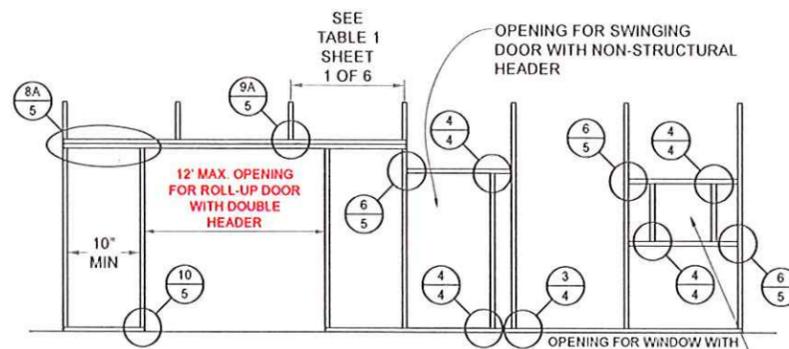
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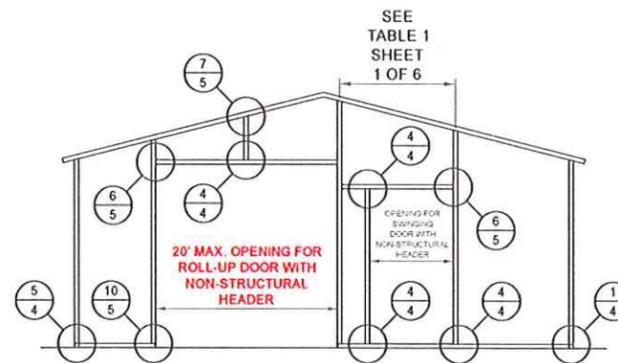
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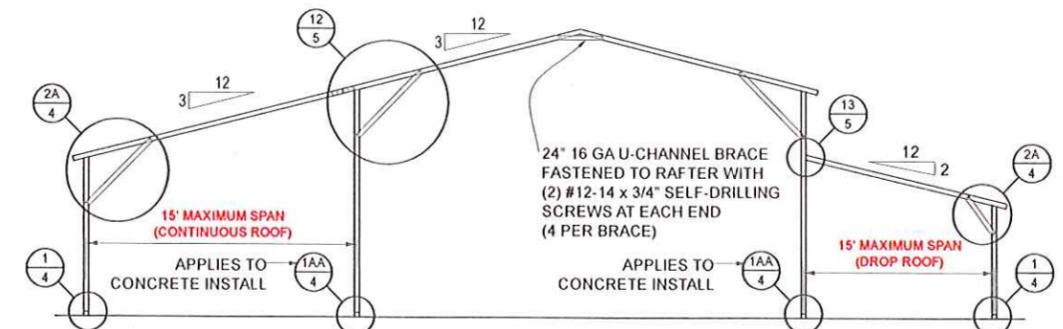
TYPICAL BOX EAVE RAFTER GABLE END FRAMING PLAN  
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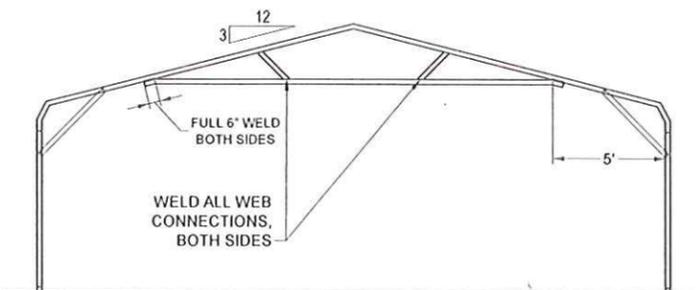
TYPICAL SIDE WALL OPENINGS FRAMING PLAN  
NOT TO SCALE



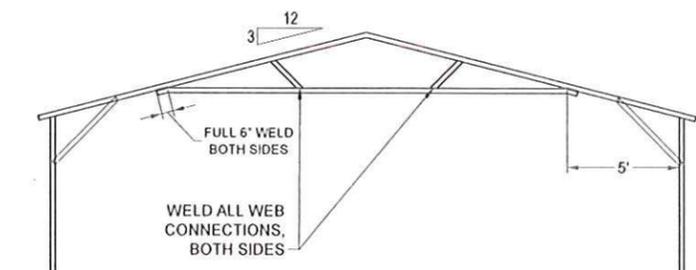
TYPICAL END WALL OPENINGS POST/RAFTER FRAMING PLAN  
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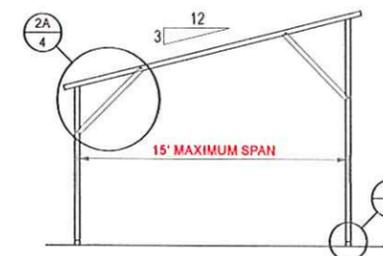
TYPICAL LEAN-TO OPTIONS FRAMING PLAN (BOTH OPTIONS SHOWN)  
NOT TO SCALE



OPTIONAL 24'-1" TO 30' TRUSSED RAFTER - BOW  
NOT TO SCALE

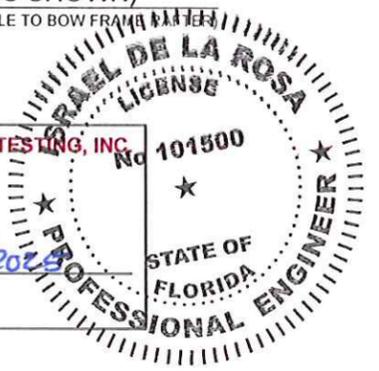


OPTIONAL 24'-1" TO 30' TRUSSED RAFTER - BOX EAVE  
NOT TO SCALE



FREESTANDING LEAN-TO FRAMING PLAN  
NOT TO SCALE

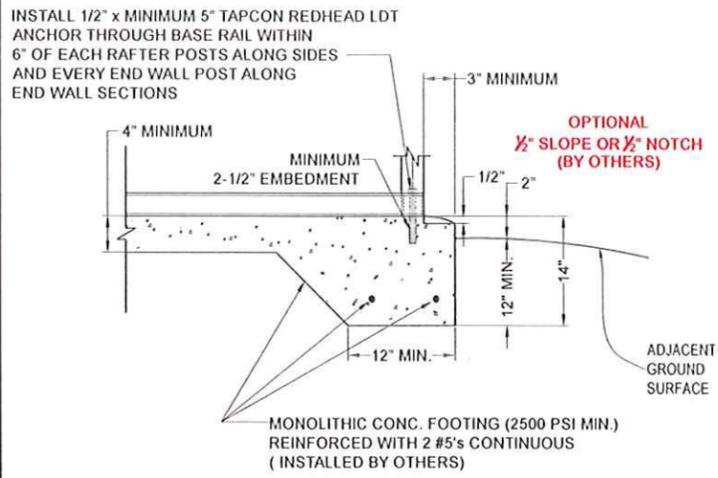
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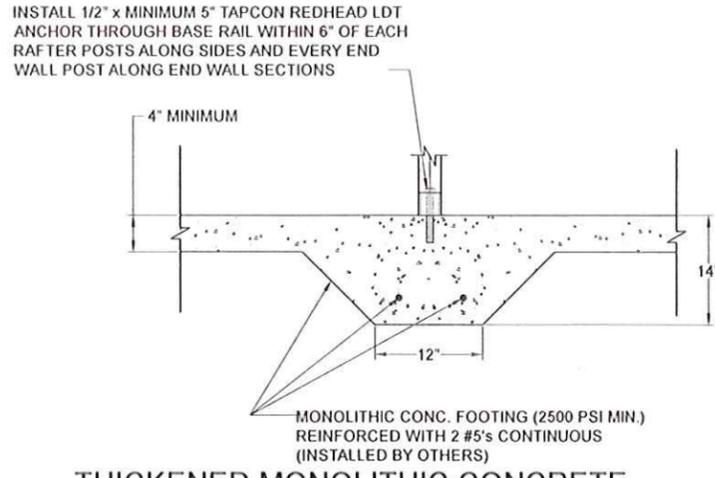
PLEASE NOTE: PLANS EXPIRE MONDAY 12/31/25

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UP TO 30' WIDE AND RISK CATEGORY I ONLY

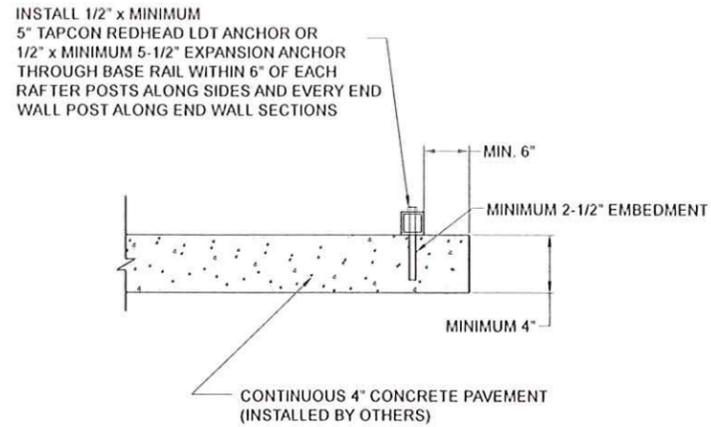
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	CHECKED	PROJ. NO.	G25001
	APPROVED	TB / LP / ID	SHEET 3 OF 6



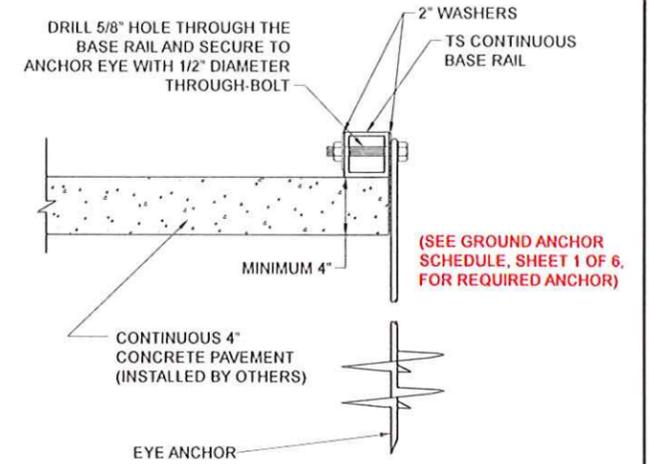
**1A** CONCRETE BASE RAIL ANCHORAGE  
Not To Scale



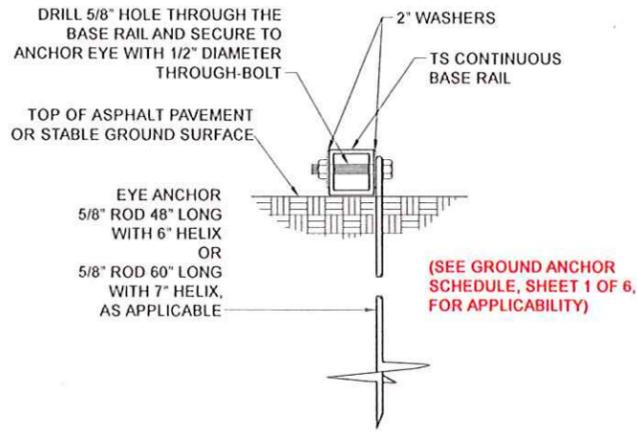
**1AA** THICKENED MONOLITHIC CONCRETE BASE RAIL ANCHORAGE FOR SHARED POST  
Not To Scale



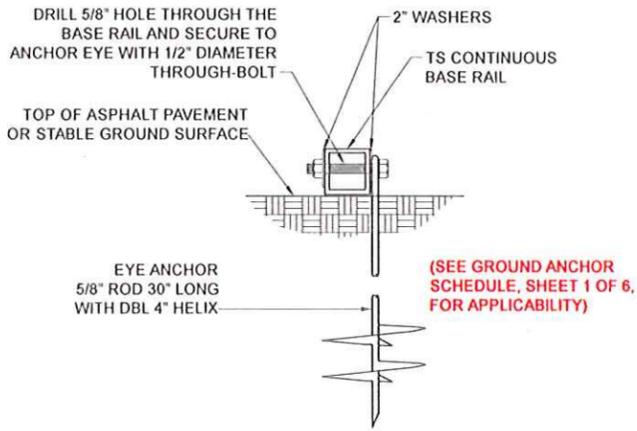
**1B** CONCRETE BASE RAIL ANCHORAGE  
Not To Scale (OPTIONAL - OPEN CARPORTS ONLY)



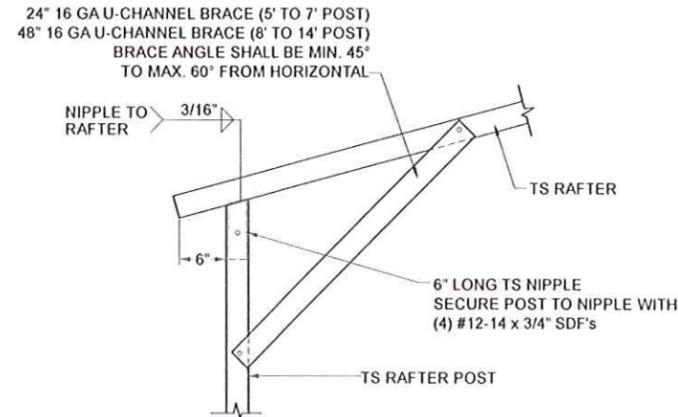
**1C** CONCRETE BASE RAIL ANCHORAGE  
Not To Scale (ALSO UTILIZE WHERE SLAB EDGE DISTANCE DOES NOT MEET MINIMUM EDGE DISTANCE SHOWN IN DETAIL 1B)



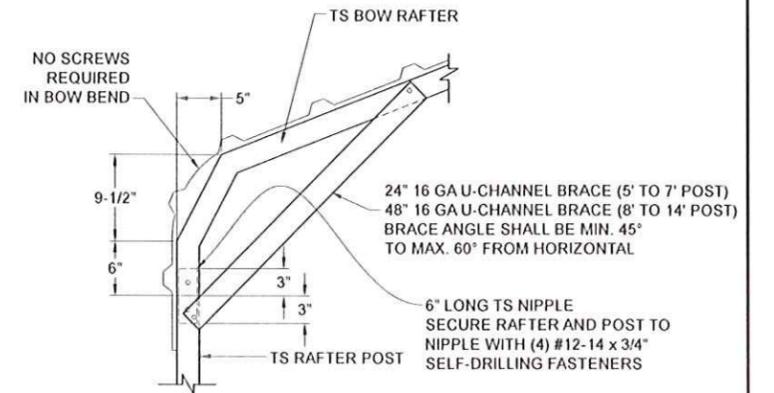
**1D** BASE RAIL DEEP ANCHORAGE  
Not To Scale



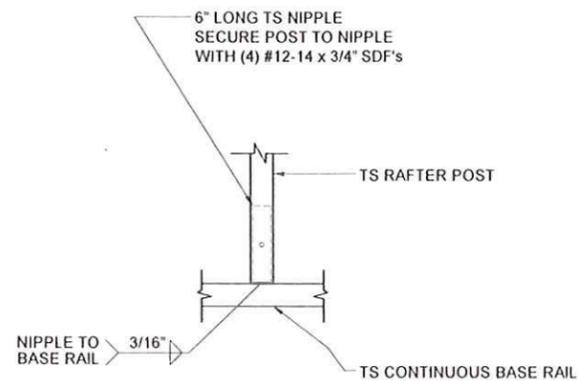
**1E** BASE RAIL ANCHORAGE  
Not To Scale



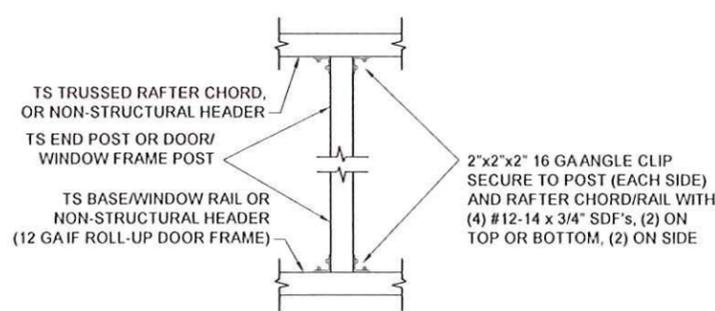
**2A** BOX EAVE RAFTER/POST DETAIL  
Not To Scale



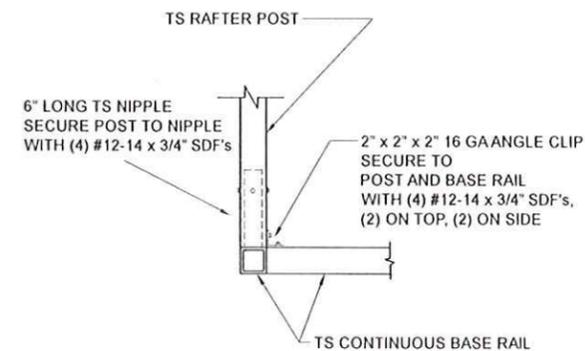
**2B** BOW RAFTER/POST DETAIL  
Not To Scale



**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

**BECHTOL ENGINEERING AND TESTING, INC.** No 101500  
605 WEST NEW YORK AVENUE  
DELAND, FLORIDA 32720

*[Signature]* 8/27/2025

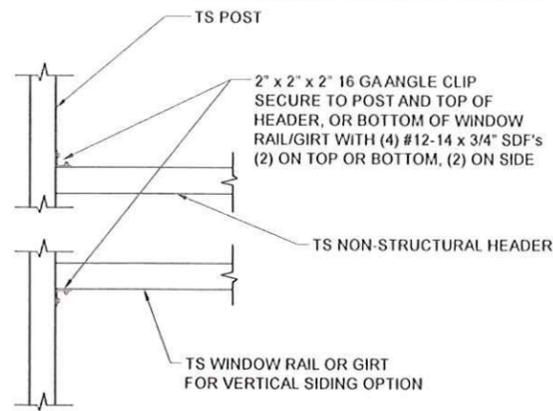
**ISRAEL DE LA ROSA**  
LICENSE  
PROFESSIONAL ENGINEER  
STATE OF FLORIDA

PLEASE NOTE: PLANS EXPIRE MIDNIGHT 12/31/25

**CAROLINA CARPORTS, INC.**  
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA  
UP TO 30' WIDE AND RISK CATEGORY I ONLY

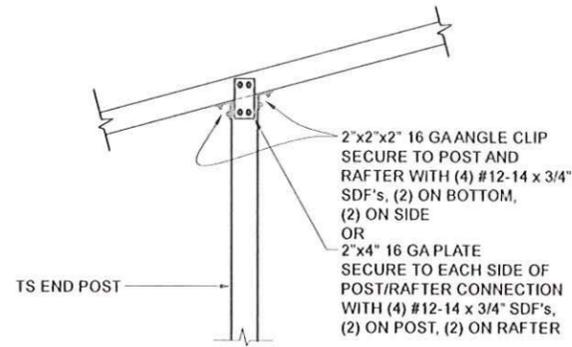
REVISED	DATE	1/2/2025
DRAWN	CS	SCALE NTS
CHECKED	CS / ID	PROJ NO G25001
APPROVED	TB / LP / ID	SHEET 4 OF 6

**BECHTOL ENGINEERING AND TESTING, inc.**  
CONSULTING GEOTECHNICAL, ENVIRONMENTAL, AND MATERIALS TESTING ENGINEERS  
Certificate of Authorization No. 00005492



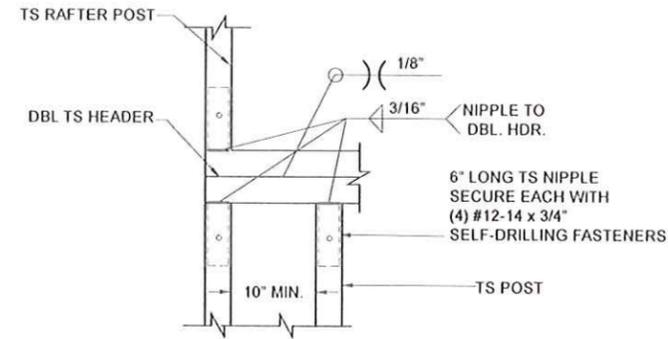
**6** NON-STRUCTURAL HEADER, WINDOW RAIL, OR GIRT TO POST CONN. DETAIL

Not To Scale



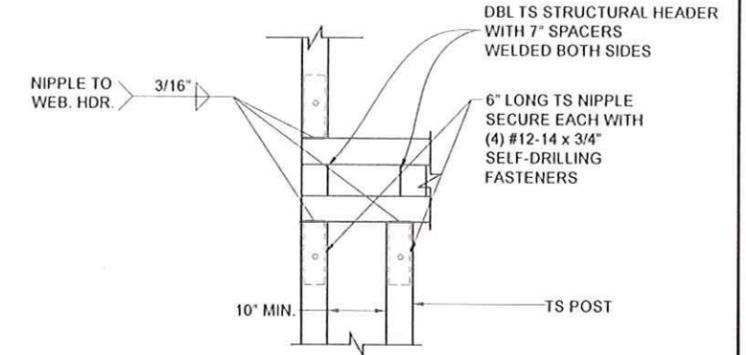
**7** END POST/RAFTER CONN. DETAIL

Not To Scale



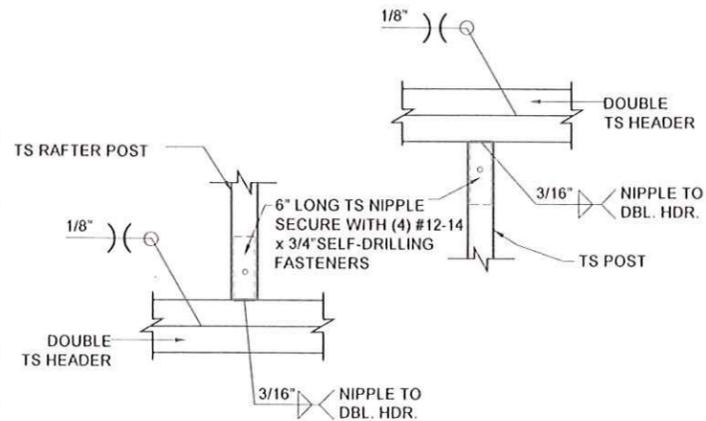
**8A** RAFTER POST/DBL. HEADER DETAIL

Not To Scale



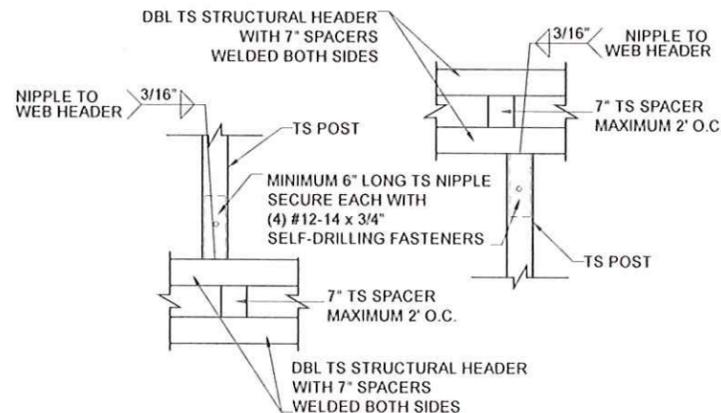
**8B** RAFTER POST/WEB HEADER DETAIL

Not To Scale



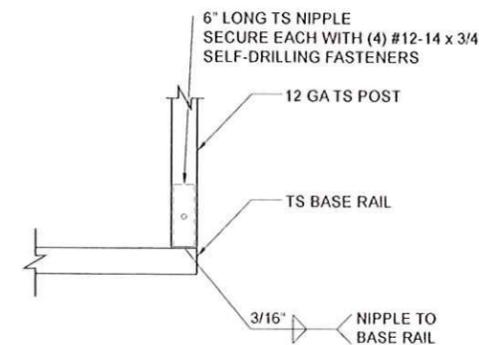
**9A** DBL. HEADER TO RAFTER POST DETAIL

Not To Scale



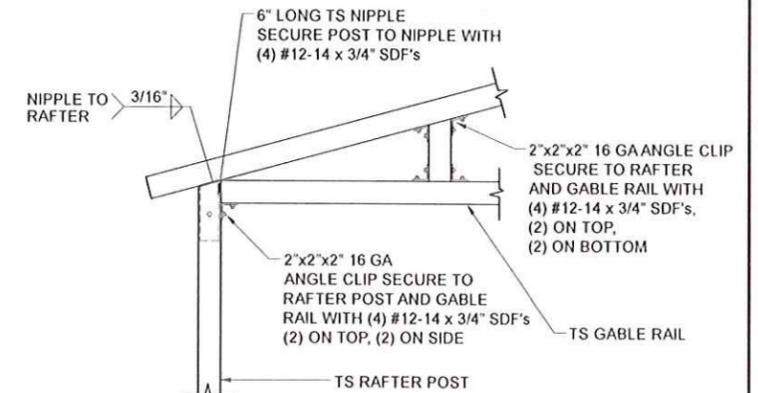
**9B** STRUCTURAL HEADER TO POST CONNECTION DETAIL

Not To Scale



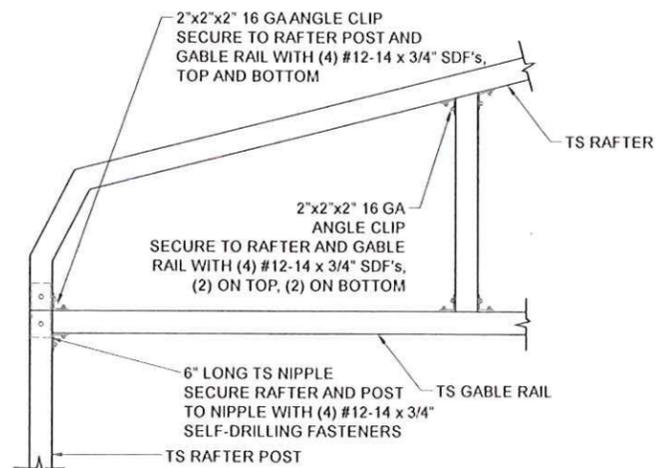
**10** FRAMEOUT/ROLL UP POST / BASE RAIL CONN. DETAIL

Not To Scale



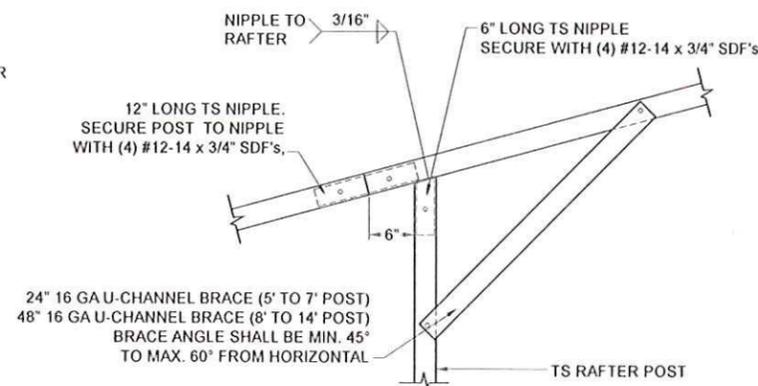
**11A** GABLE RAIL TO RAFTER POST CONNECTION DETAIL - BOX EAVE

Not To Scale



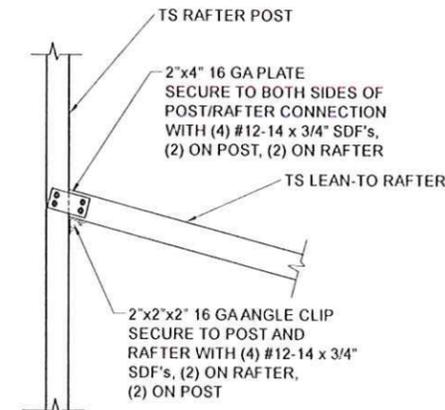
**11B** GABLE RAIL TO RAFTER POST CONNECTION DETAIL - BOW FRAME

Not To Scale



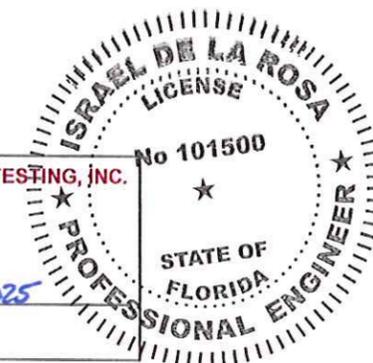
**12** SIDE EXTENSION RAFTER/POST DETAIL

Not To Scale



**13** POST / LEAN-TO RAFTER CONN. DETAIL

Not To Scale



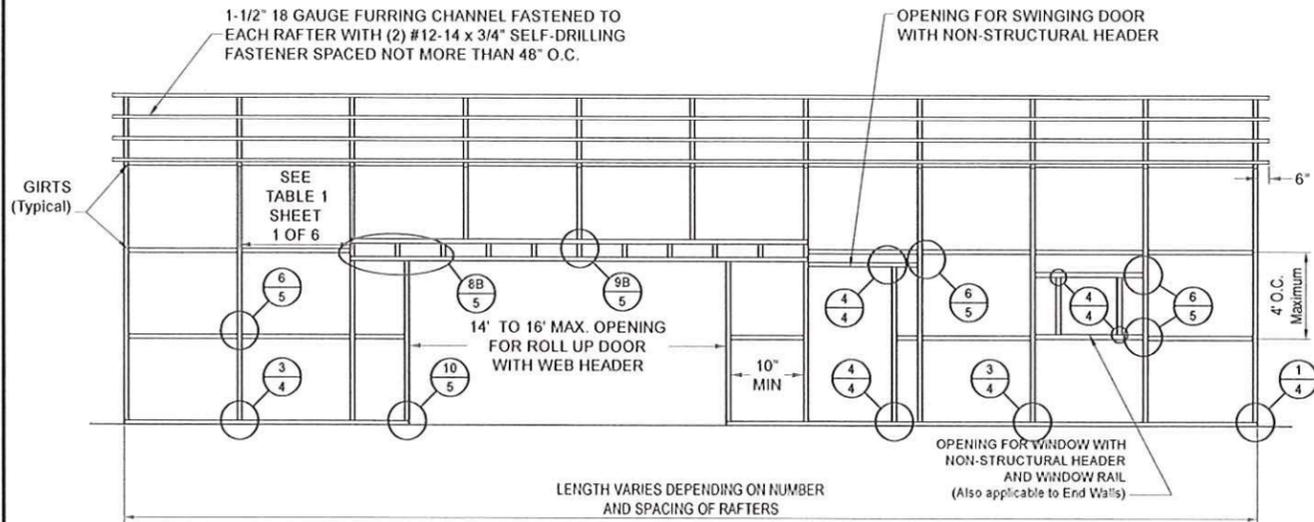
**BECHTOL ENGINEERING AND TESTING, INC.**  
605 WEST NEW YORK AVENUE  
DELAND, FLORIDA 32720

*8/27/2025*

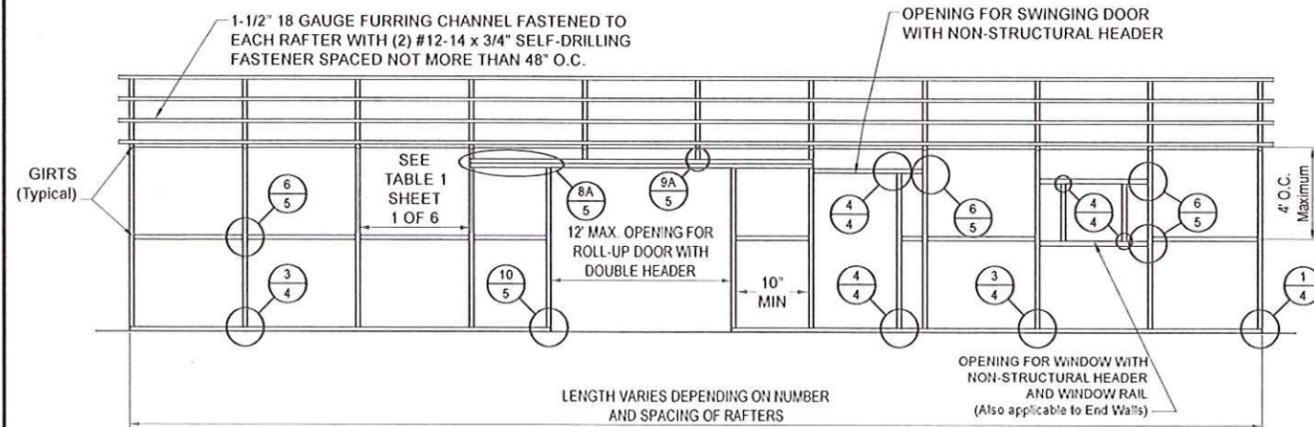
PLEASE NOTE: PLANS EXPIRE MIDNIGHT 12/31/25  
**CAROLINA CARPORTS, INC.**  
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA  
UP TO 30' WIDE AND RISK CATEGORY I ONLY

	DESIGNED	DATE	1/2/2025
	DRAWN	SCALE	NTS
	CHECKED	PROJ. NO.	G25001
	APPROVED	SHEET	5 OF 6

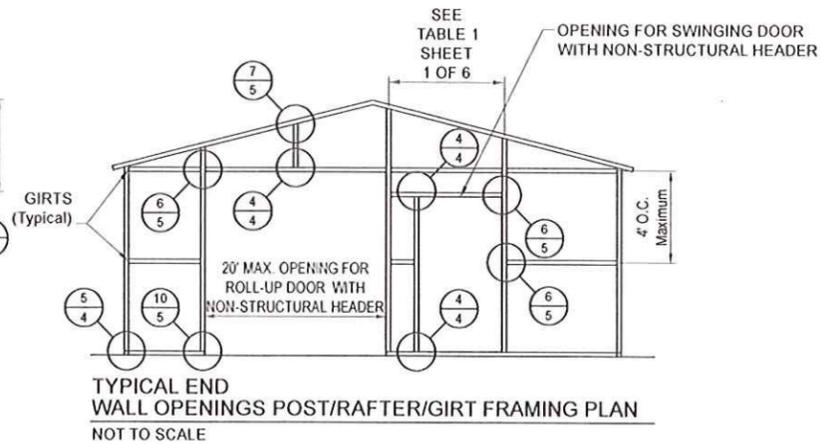
# VERTICAL SIDE OPTION



TYPICAL POST/RAFTER/GIRT FRAMING PLAN (14' TO 16' WIDE MAX. OPENING)  
NOT TO SCALE

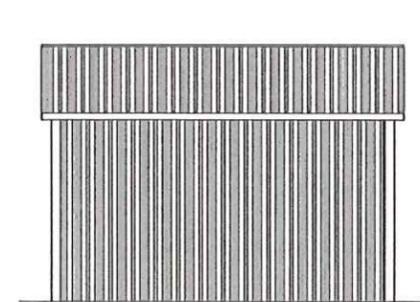


TYPICAL POST/RAFTER/GIRT FRAMING PLAN (12' WIDE MAX. OPENING)  
NOT TO SCALE

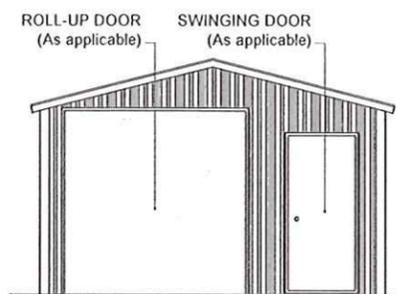


TYPICAL END WALL OPENINGS POST/RAFTER/GIRT FRAMING PLAN  
NOT TO SCALE

## BOX EAVE FRAME RAFTER ENCLOSED BLDG - VERTICAL SIDES

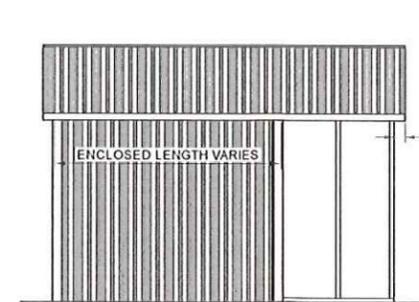


TYPICAL SIDE ELEVATION  
NOT TO SCALE

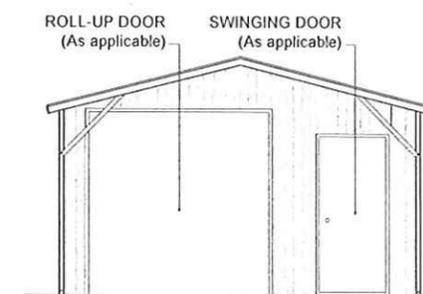


TYPICAL END ELEVATION  
NOT TO SCALE

## BOX EAVE FRAME RAFTER PARTIALLY OPEN / ENCLOSED BLDG - VERTICAL SIDES



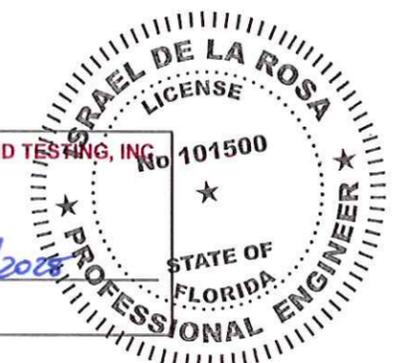
TYPICAL SIDE ELEVATION  
NOT TO SCALE



TYPICAL END ELEVATION  
NOT TO SCALE

BECHTOL ENGINEERING AND TESTING, INC.  
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DELAND, FLORIDA 32720

*Israel de la Rosa*  
1/27/2025



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<p>BECHTOL ENGINEERING AND TESTING, Inc. CONSULTING GEOTECHNICAL, ENVIRONMENTAL AND MATERIALS TESTING ENGINEERS Certificate of Authorization No. 0005492</p>	REVISED	DATE	1/27/2025	
	DRAWN	CS	SCALE	NTS
	CHECKED	CS / ID	PROJ NO	G25001
	APPROVED	TB / LP / ID	SHEET 6 OF 6	