

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	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)																																																																																																				
													INTERIOR POSTS/RAFTERS	END POSTS/RAFTERS																																																																																																			
STRUCTURAL COMPONENTS	ROOF DECK	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6596.1-R6 12/15/20	04/05/27	180	180	180	I	C	110 TO 150	89 TO 116	5.0	6	6																																																																																																			
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge AG Panel	FL6702.1-R6 12/15/20	03/14/27	180	180	180			151 TO 180	117 TO 139	4.0	6	6																																																																																																			
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Gauge Dutch Lap Wall Panel	FL6702.3-R6 12/15/20 **	03/14/27	N/A	164	143	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.																																																																																																									
STRUCTURAL COMPONENTS	FLOOD VENT	CRAWL SPACE DOOR SYSTEMS, INC. 16x8 Flood Vent	FL29622.1-R1 02/28/21	09/30/22	N/A	N/A	N/A	<div>GROUND ANCHOR SCHEDULE</div> <div>ULTIMATE WIND SPEED (mph)</div> <table><tr><td></td><td>110</td><td>120</td><td>130</td><td>140</td><td>150</td><td>160</td><td>170</td><td>180</td></tr><tr><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>16</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>22</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>24</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>26</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>28</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>30</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> <div>METAL CARPORT INSTALLATION PLANS AND DETAILS AND FRAMING AND FASTENER SPECIFICATIONS</div> <div>FOR CONSTRUCTION IN THE STATE OF FLORIDA</div> <div>PREPARED FOR: CAROLINA CARPORTS, INC. P.O. BOX 1263 DOBSON, NORTH CAROLINA 27017</div> <div>PREPARED BY: BECHTOL ENGINEERING AND TESTING, INC. 605 WEST NEW YORK AVENUE DELAND, FLORIDA 32720 Certificate of Authorization No. 00005492</div>								110	120	130	140	150	160	170	180	12									14									16									18									20									22									24									26									28									30								
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EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY Series 402-14	FL17996.3-R2 02/28/21	08/26/25	N/A	139	139																																																																																																										
EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY Series 407	FL17996.5-R2 02/28/21	08/19/25	N/A	174	155																																																																																																										
EXTERIOR DOORS	ROLL-UP	ASTA INDUSTRIES INC. Model 203 (12' Max. Width)	FL8888.1-R6 02/09/21	12/31/24	N/A	180	174																																																																																																										
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll Up Sheet Door (8' Max. Width)	FL16806.2-R5 12/16/20	04/05/27	N/A	180	180																																																																																																										
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door - (10' Max. Width)	FL16806.4-R5 12/16/20	04/05/27	N/A	180	172																																																																																																										
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door - (12' Max. Width)	FL16806.4-R5 12/16/20	04/05/27	N/A	179	154																																																																																																										
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. Steel Roll-Up Sheet Door - (16' Max. Width)	FL4133.5 06/07/22	04/05/27	N/A	163	142																																																																																																										
WINDOWS	SINGLE HUNG	CGI WINDOWS AND DOORS Model SH 4000A	FL23358.2 12/16/20	02/28/33	N/A	174	156																																																																																																										
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. ** MAXIMUM POST SPACING FOR DUTCH LAP IS 4.0'								DETAILS 1C AND 1D SHOWN ON SHEET 4 OF 6																																																																																																									

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 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 I) 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.
3. ALL STEEL TUBING SHALL BE 50 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-W1.4XW1.4 WELDED WIRE FABRIC COMPLYING WITH ASTM A 185, OR WITH SYNTHETIC FIBER REINFORCEMENT COMPLYING WITH ASTM C1116.
7. 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.
8. CONCRETE ANCHORS SHALL BE TAPCON REDHEAD LDT 1/2" x 5" OR EQUIVALENT OR WEJ-IT 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 TERMITE TREATED AND COVERED WITH 6 MIL VAPOR RETARDER PER SECTION R318.1 OF THE FBC EIGHTH EDITION (2023) - RESIDENTIAL, AND SECTION 1816.1 OF THE FBC EIGHTH EDITION (2023) - 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.
12. 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.

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

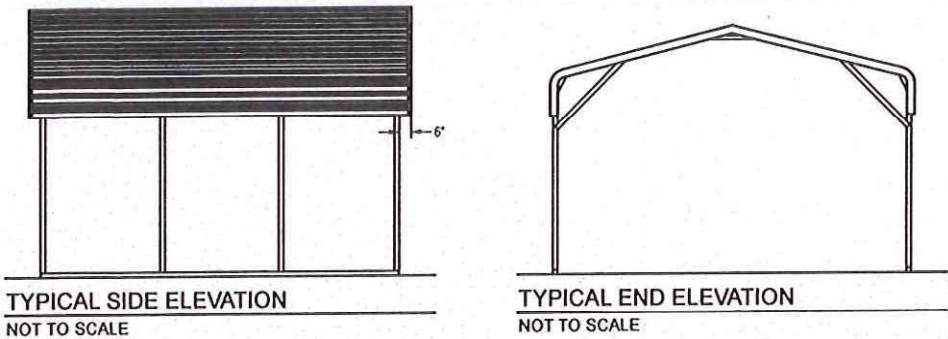
LOVE B PATEL
LICENSE
No. 90753
STATE OF FLORIDA
PROFESSIONAL ENGINEER

CAROLINA CARPORTS, INC.

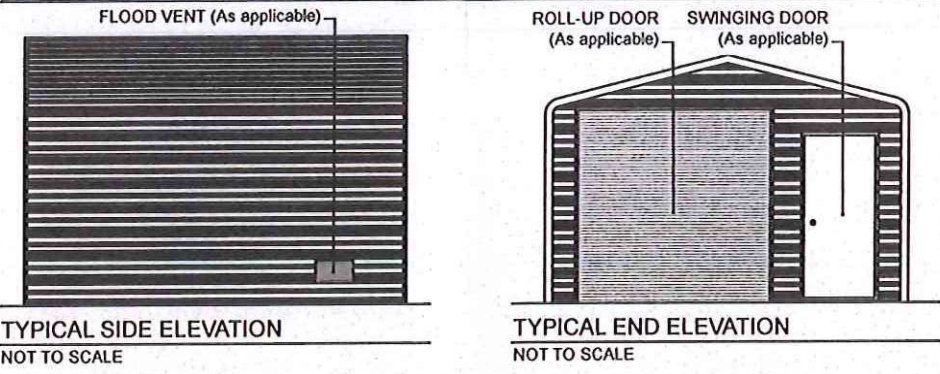
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

FIELD	DATE	1/1/2024	
DRAWN	MKB / CS	SCALE	NTS
CHECKED	TB / CS	PROJ NO	G24001
APPROVED	TB / LP	SHEET	1 OF 6

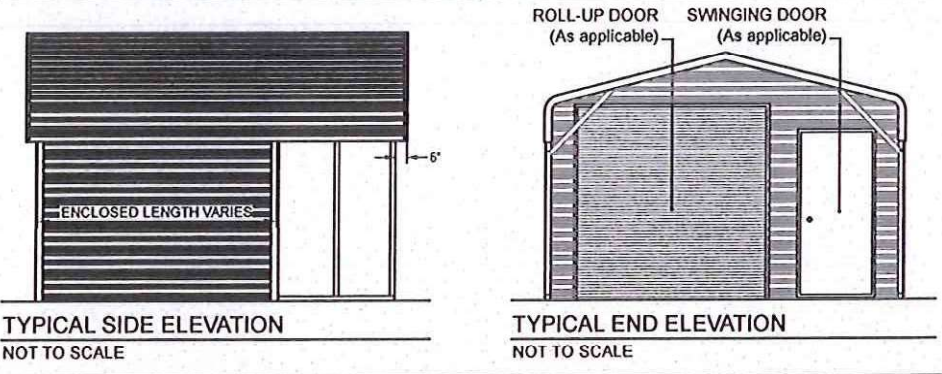
BOW FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF



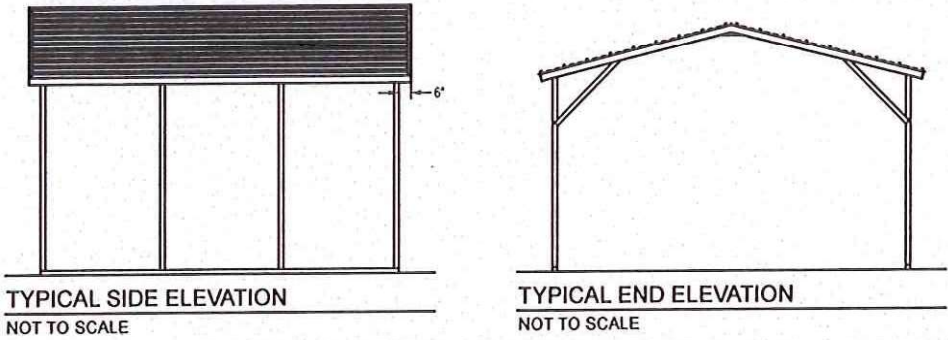
BOW FRAME RAFTER ENCLOSED BUILDING - HORIZONTAL ROOF



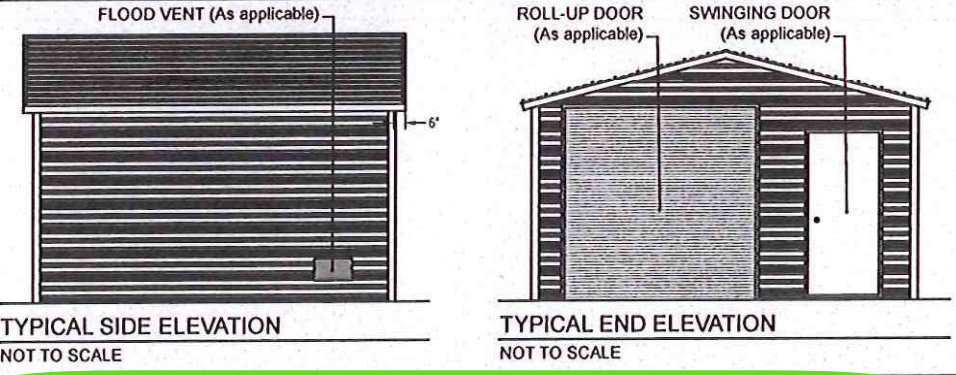
BOW FRAME RAFTER UTILITY BUILDING - HORIZONTAL ROOF



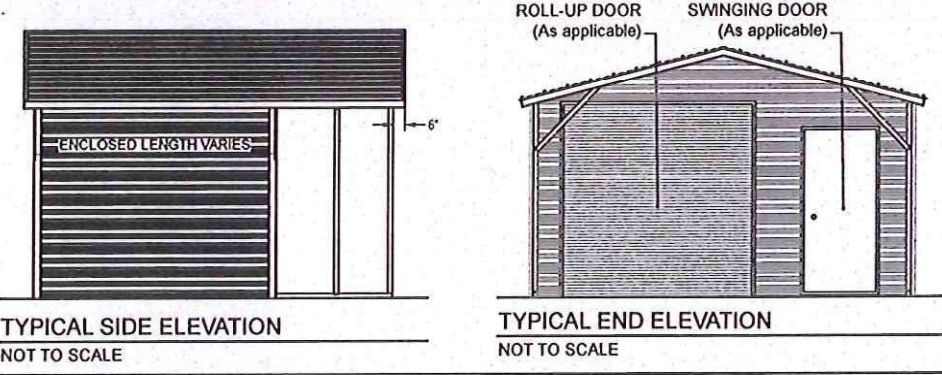
BOX EAVE FRAME RAFTER OPEN CARPORT - HORIZONTAL ROOF



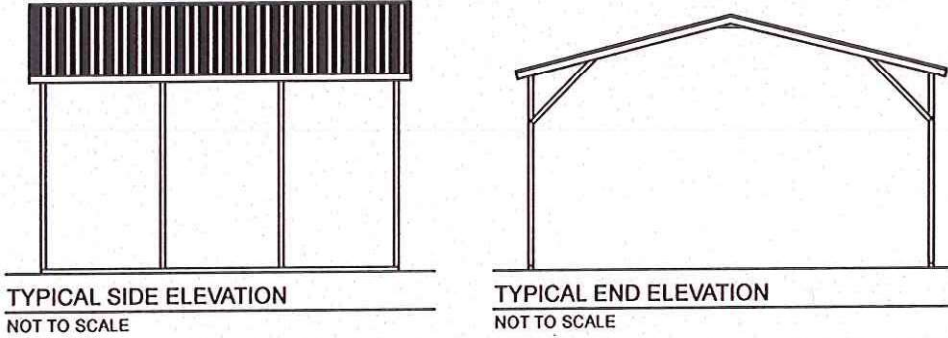
BOX EAVE FRAME RAFTER ENCLOSED BLDG - HORIZONTAL ROOF



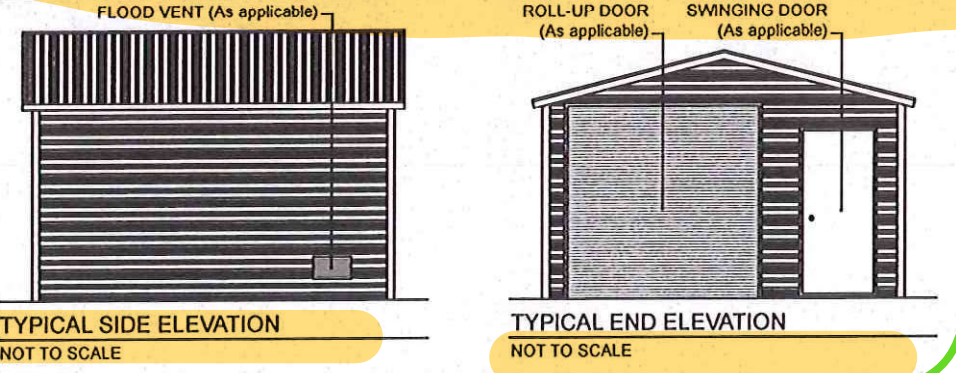
BOX EAVE FRAME RAFTER UTILITY BLDG - HORIZONTAL ROOF



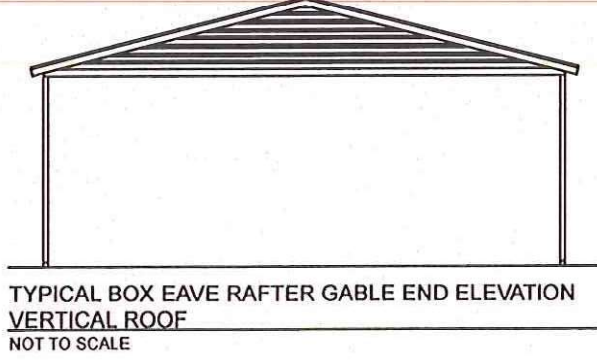
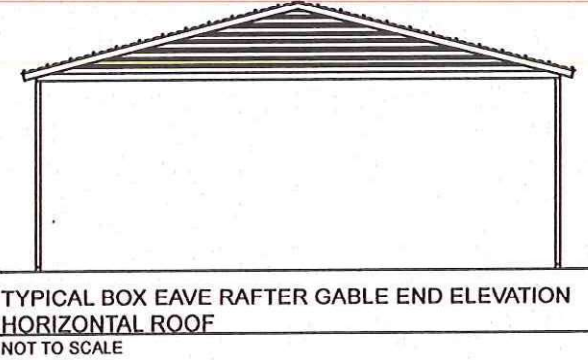
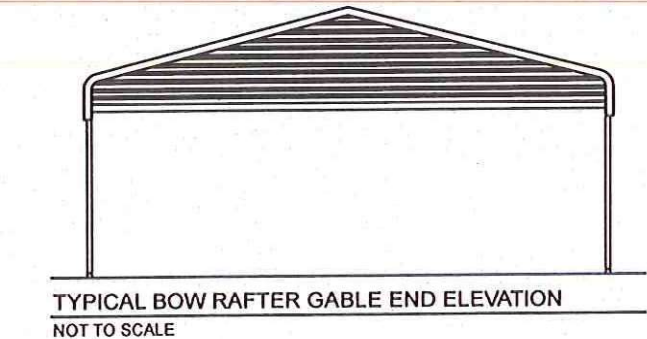
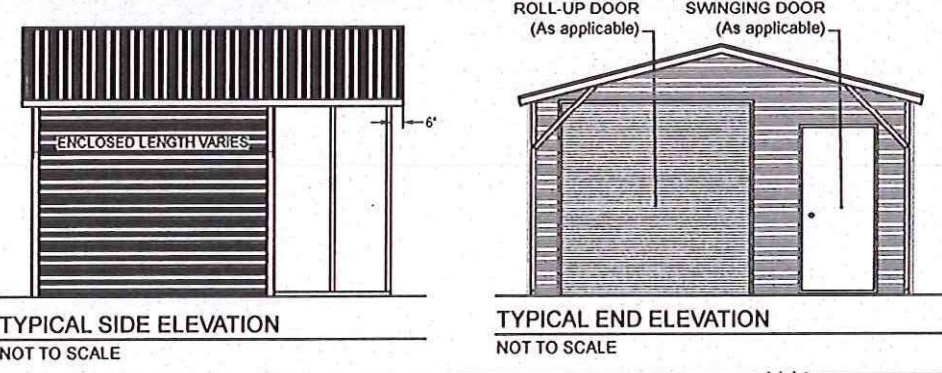
BOX EAVE FRAME RAFTER OPEN CARPORT - VERTICAL ROOF



BOX EAVE FRAME RAFTER ENCLOSED BLDG - VERTICAL ROOF



BOX EAVE FRAME RAFTER UTILITY BLDG - VERTICAL ROOF

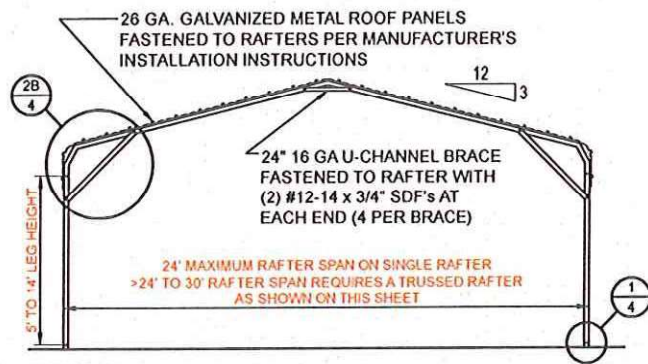


BECHTOL ENGINEERING AND TESTING, INC.
605 WEST NEW YORK AVENUE
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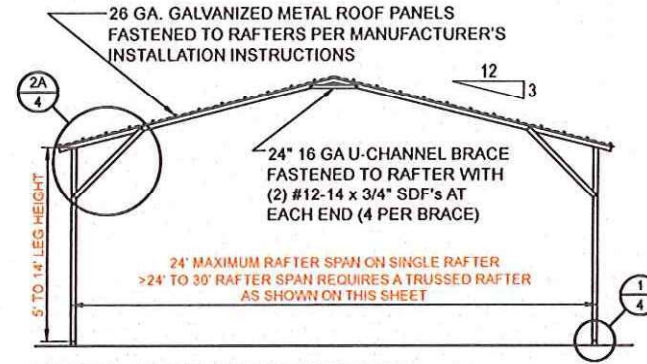
LOVE B PATEL
LICENSE
No. 90753
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

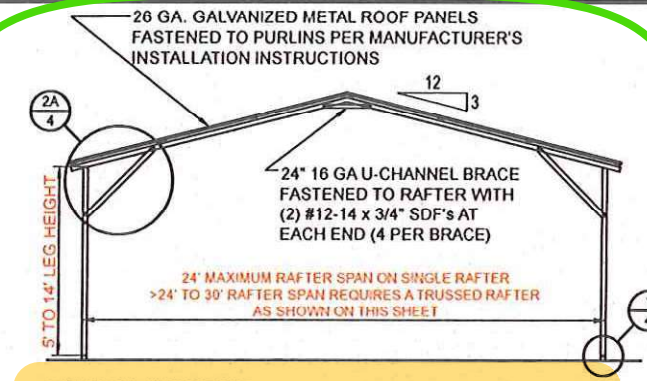
	BECHTOL ENGINEERING AND TESTING, Inc.	DATE	1/1/2024
	CONSULTING GEOTECHNICAL, ENVIRONMENTAL, AND MATERIALS TESTING ENGINEERS Certificate of Authorization No. 00005492	SCALE	NTS
		PROJ. NO.	G24001
		SHEET 2 OF 6	



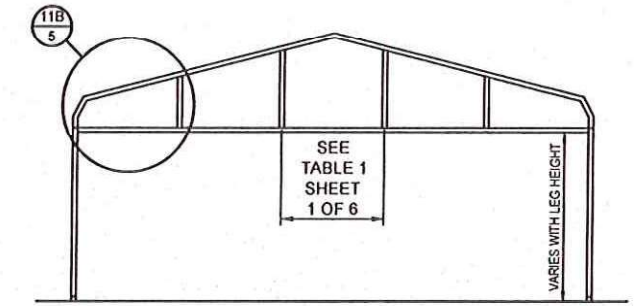
TYPICAL INTERIOR RAFTER/POST FRAME SECTION - BOW FRAME
NOT TO SCALE



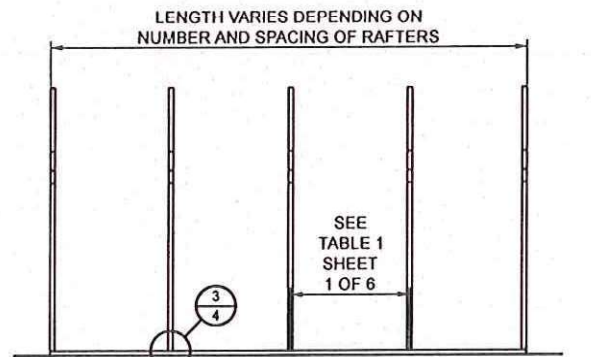
TYPICAL INTERIOR RAFTER/POST FRAME SECTION - HORIZONTAL ROOF - BOX EAVE
NOT TO SCALE



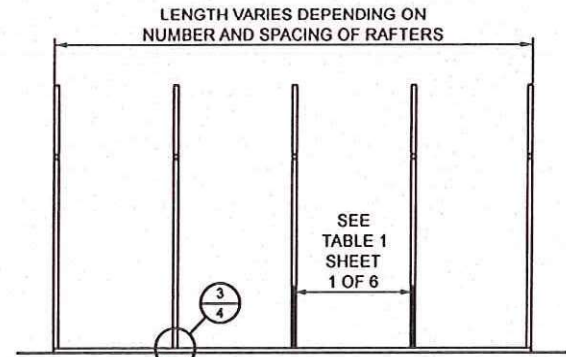
TYPICAL INTERIOR RAFTER/POST FRAME SECTION - VERTICAL ROOF
NOT TO SCALE



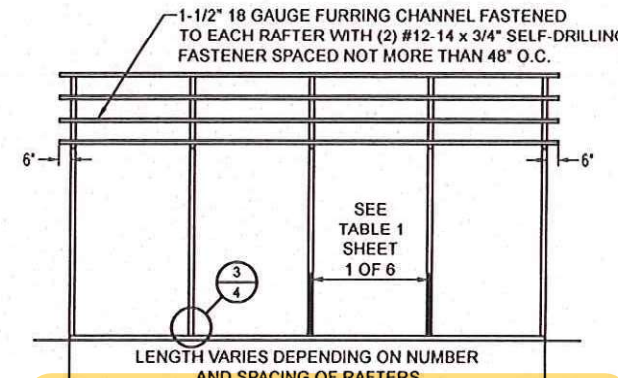
TYPICAL BOW RAFTER GABLE END FRAMING PLAN
NOT TO SCALE



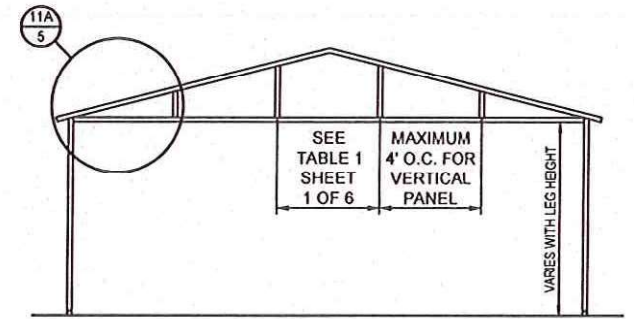
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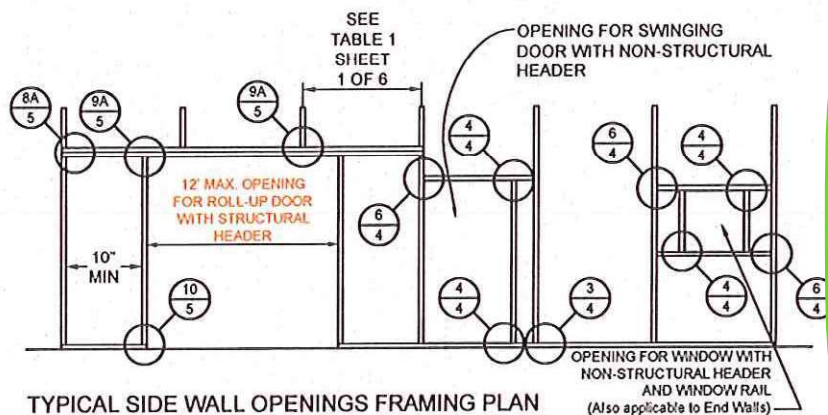
TYPICAL RAFTER/POST FRAMING PLAN - BOX EAVE
NOT TO SCALE



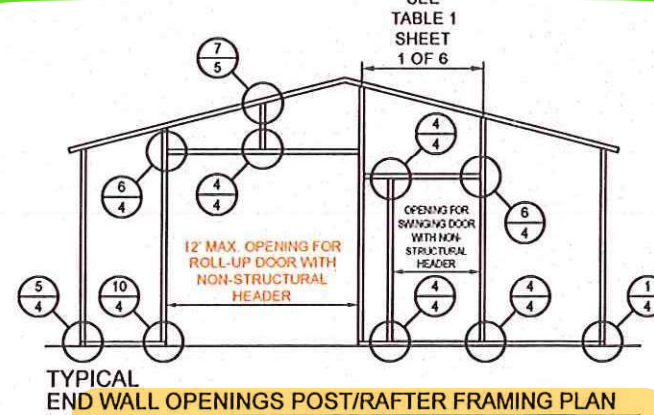
TYPICAL POST/RAFTER FRAMING PLAN - VERTICAL ROOF
NOT TO SCALE



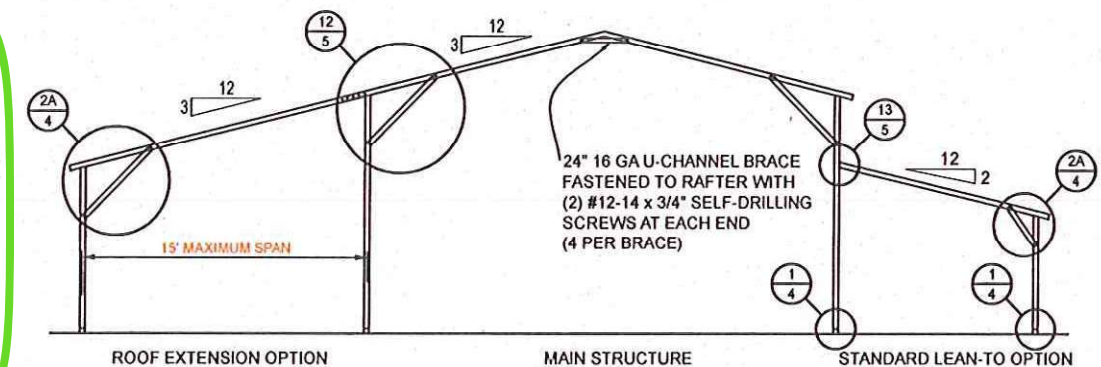
TYPICAL BOX EAVE RAFTER GABLE END FRAMING PLAN
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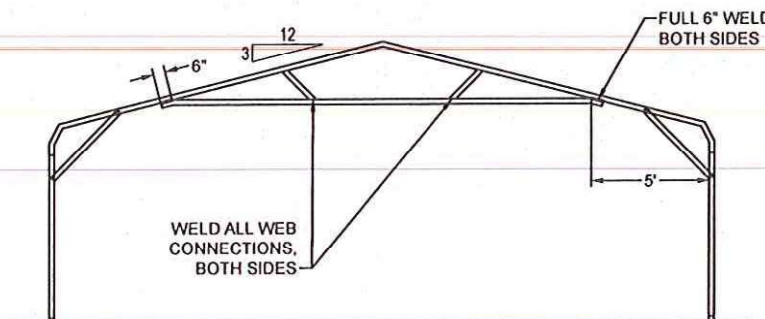
TYPICAL SIDE WALL OPENINGS FRAMING PLAN
NOT TO SCALE



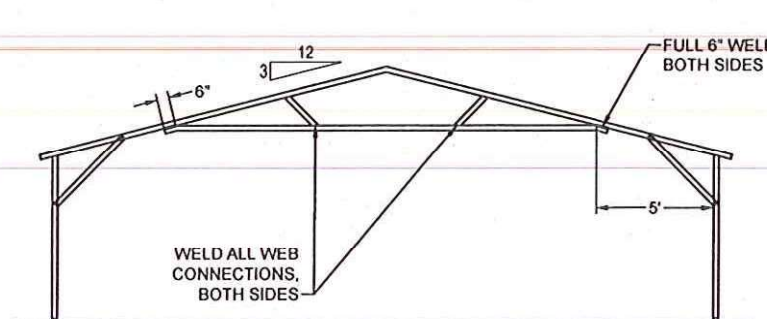
TYPICAL END WALL OPENINGS POST/RAFTER FRAMING PLAN
NOT TO SCALE



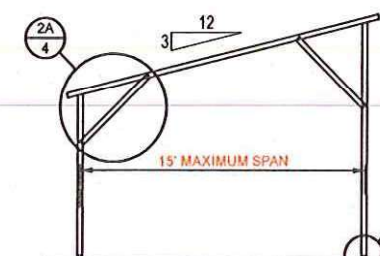
TYPICAL LEAN-TO OPTIONS FRAMING PLAN (BOTH OPTIONS SHOWN)
NOT TO SCALE (BOX EAVE RAFTER SHOWN, ONLY STANDARD LEAN-TO IS APPLICABLE TO BOW FRAME RAFTER)



OPTIONAL 24'-1\"/>

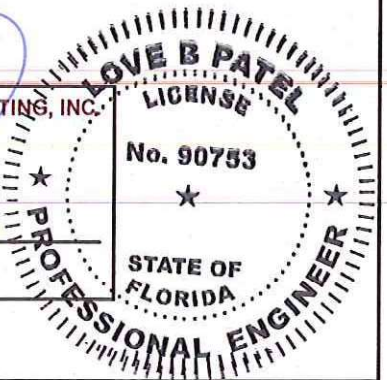


OPTIONAL 24'-1\"/>



FREESTANDING LEAN-TO FRAMING PLAN
NOT TO SCALE

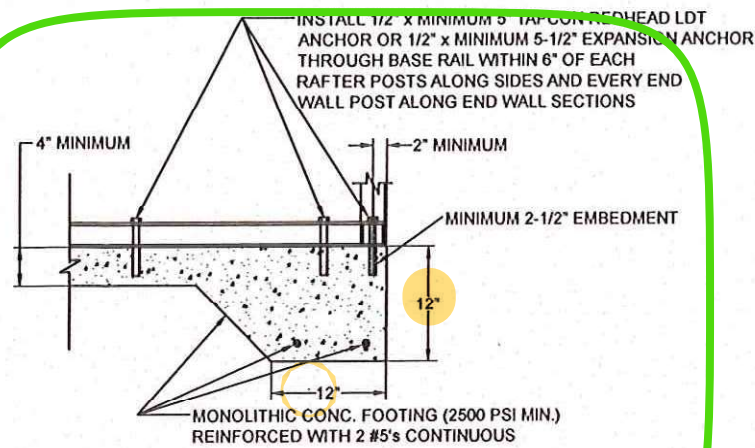
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605 WEST NEW YORK AVENUE
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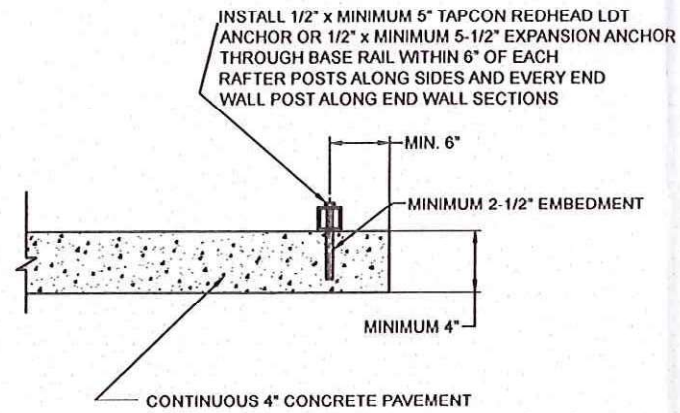
CAROLINA CARPORTS, INC.
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

BECHTOL ENGINEERING AND TESTING, Inc.
CONSULTING GEOTECHNICAL, ENVIRONMENTAL, AND MATERIALS TESTING ENGINEERS
Certificate of Authorization No. 00005493

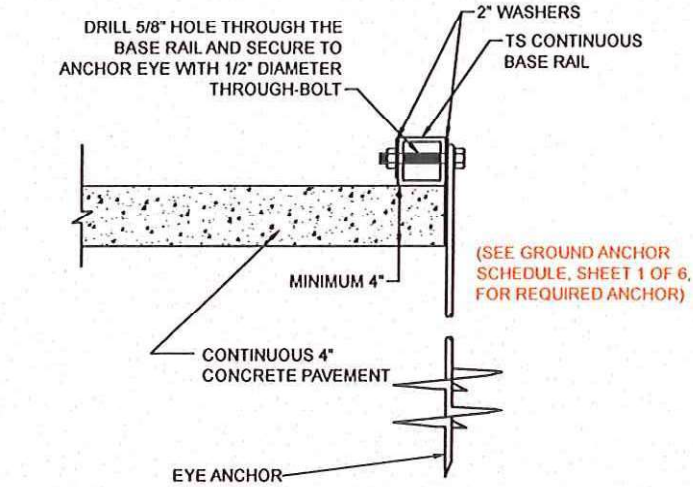
FIELD	DATE
1/1/2024	
DRWN	MKB / CS
SCALE	NTS
CHECKED	TB / CS
PROJ NO	G24001
APPROVED	TB / LP
	SHEET 3 OF 6



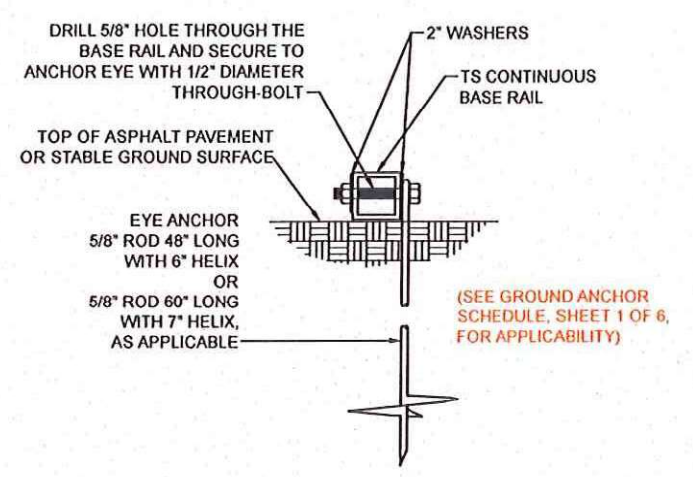
1A CONCRETE BASE RAIL ANCHORAGE
Not To Scale



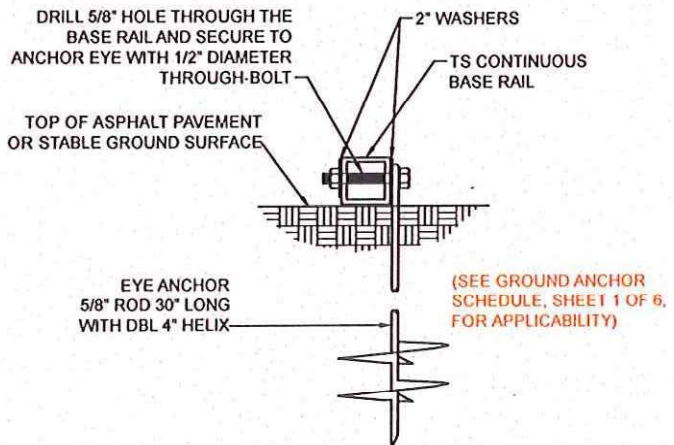
1B CONCRETE BASE RAIL ANCHORAGE
Not To Scale (OPTIONAL - OPEN CARPORTS ONLY)



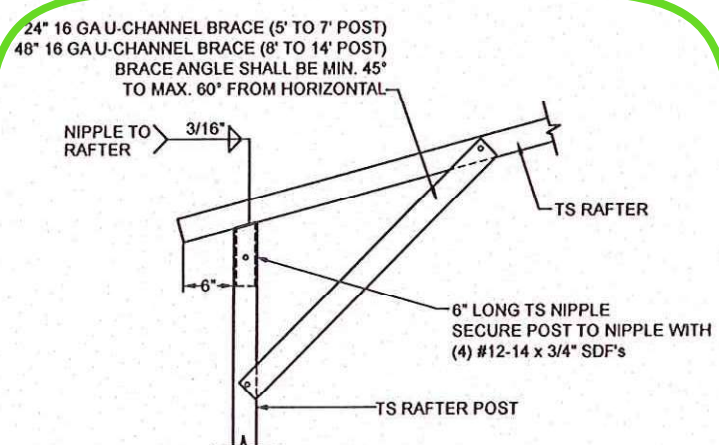
1C CONCRETE BASE RAIL ANCHORAGE
Not To Scale (OPEN CARPORTS WHERE SLAB EDGE DISTANCE DOES NOT MEET MINIMUM EDGE DISTANCE SHOWN IN DETAIL 1B)



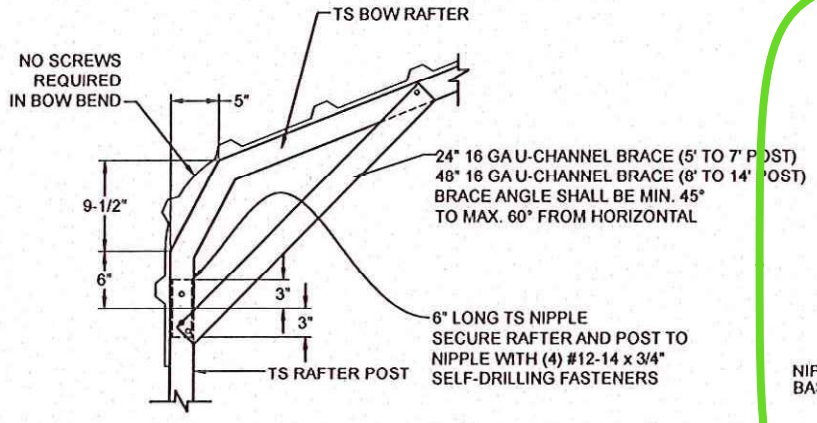
1D BASE RAIL DEEP ANCHORAGE
Not To Scale



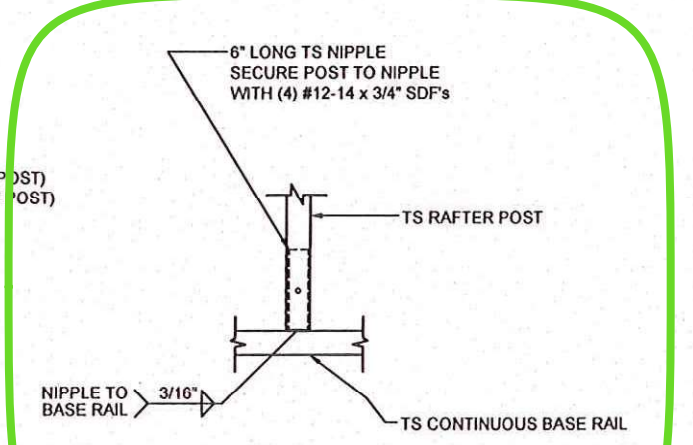
1E BASE RAIL ANCHORAGE
Not To Scale



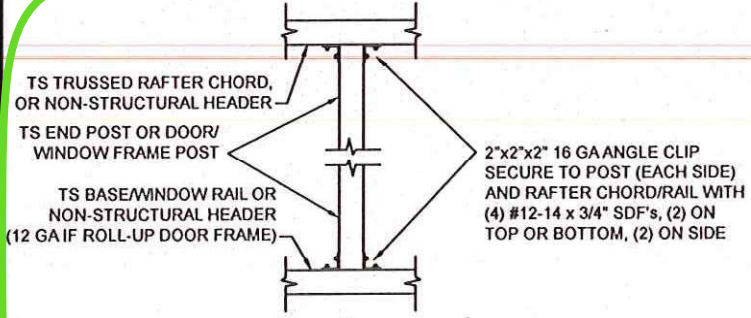
2A BOX EAVE RAFTER/POST DETAIL
Not To Scale



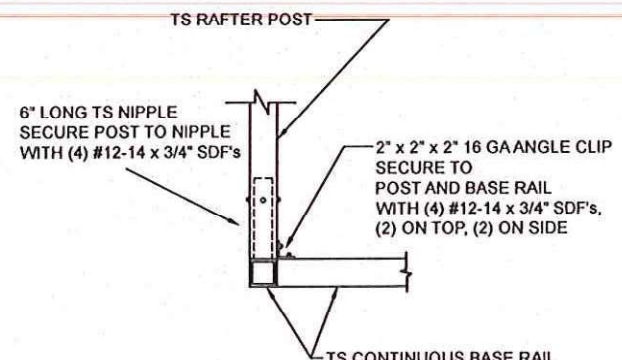
2B BOW RAFTER/POST DETAIL
Not To Scale



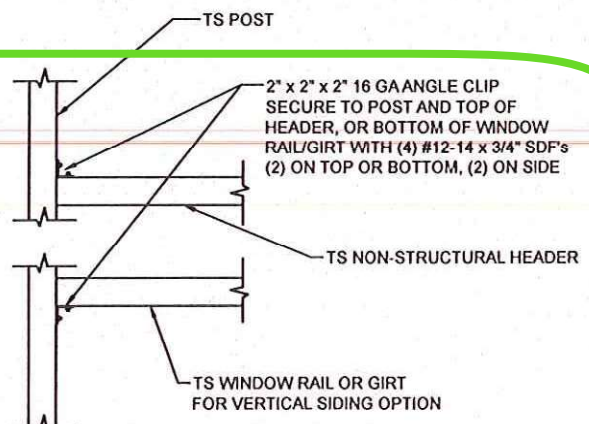
3 POST/BASE RAIL CONN. DETAIL
Not To Scale



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



5 END POST/BASE RAIL CONN.
Not To Scale



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

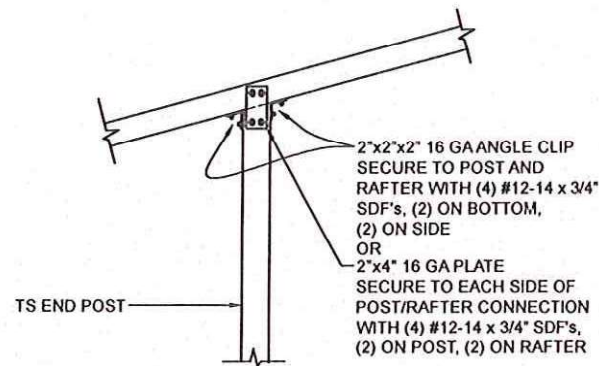
BECHTOL ENGINEERING AND TESTING, INC.
605 WEST NEW YORK AVENUE
DELAND, FLORIDA 32720

DOVE H. PATEL
LICENSE
No. 90753
STATE OF FLORIDA
PROFESSIONAL ENGINEER

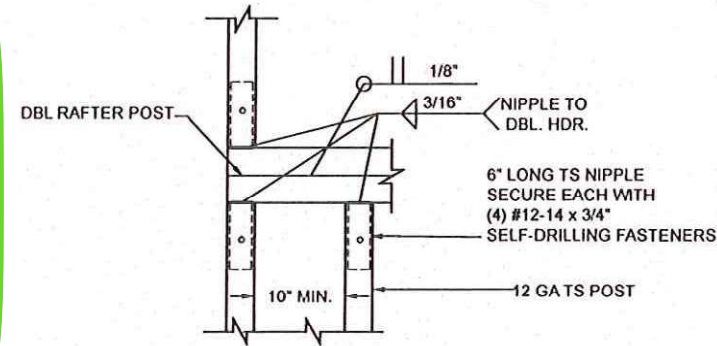
CAROLINA CARPORTS, INC.
GENERIC PLANS FOR USE IN THE STATE OF FLORIDA

FIELD	DATE	1/1/2024
DRAWN	MKB / CS	SCALE: NTS
CHECKED	TB / CS	PROJ NO: G24001
APPROVED	TB / LP	SHEET 4 OF 6

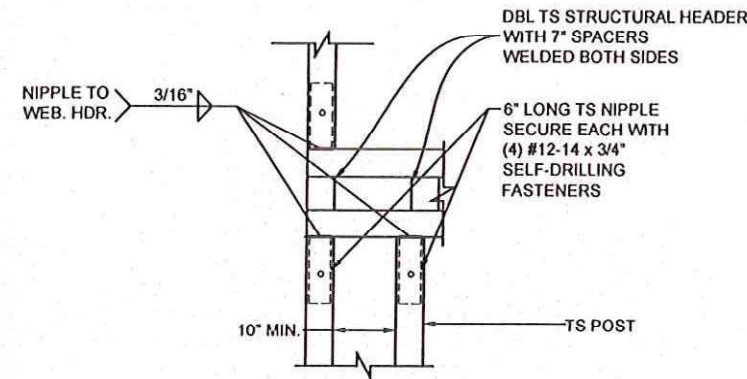
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Certificate of Authorization No. 00000002



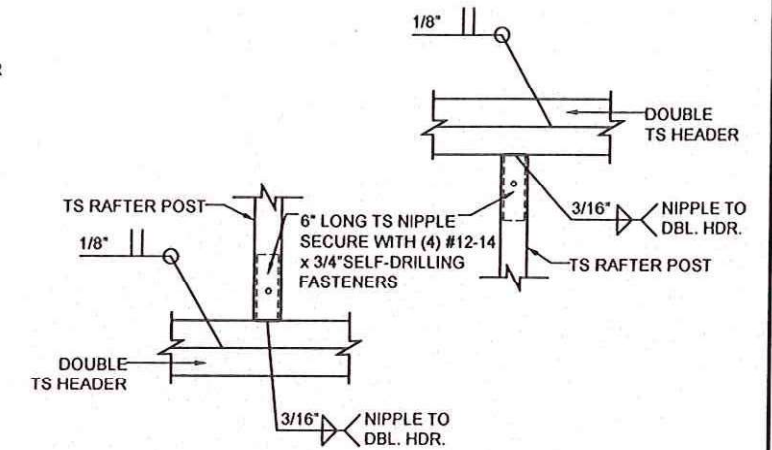
7 END POST/RAFTER CONN. DETAIL
Not To Scale



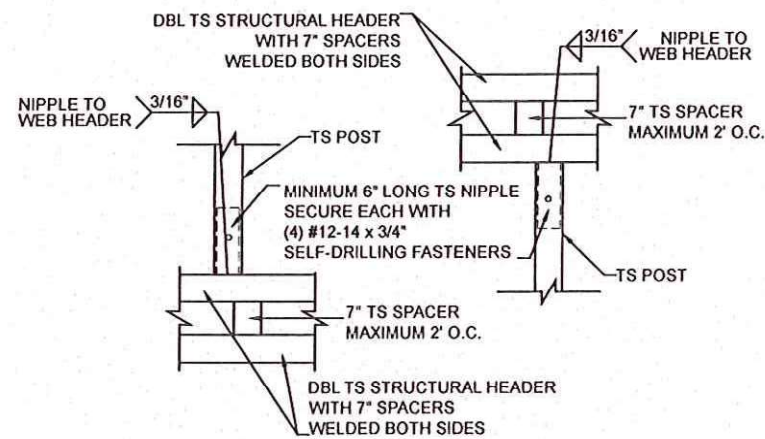
8A RAFTER POST/DBL. HEADER DETAIL
Not To Scale



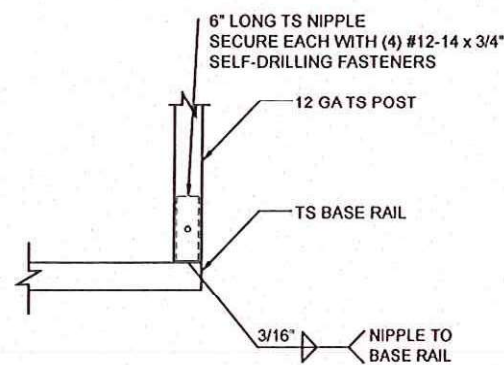
8B RAFTER POST/WEB HEADER DETAIL
Not To Scale



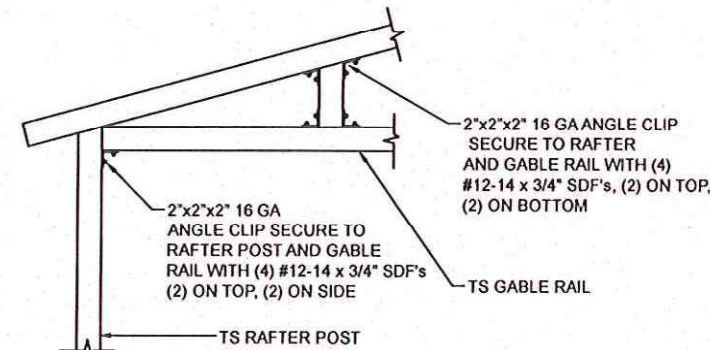
9A RAFTER POST/HEADER DETAIL
Not To Scale



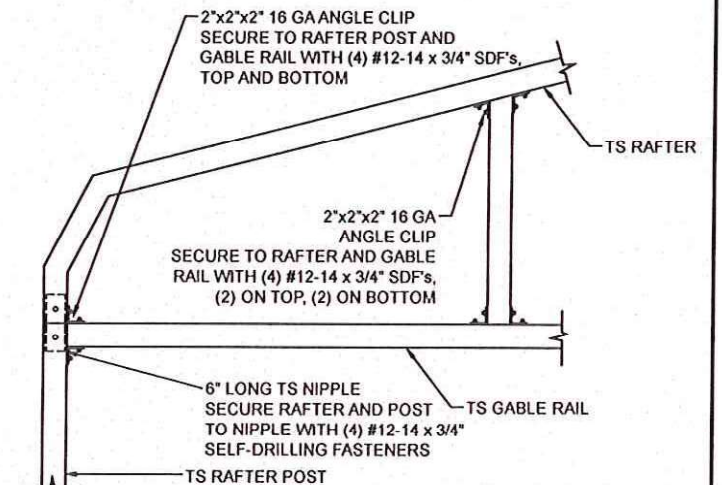
9B STRUCTURAL HEADER TO POST CONNECTION DETAIL
Not To Scale



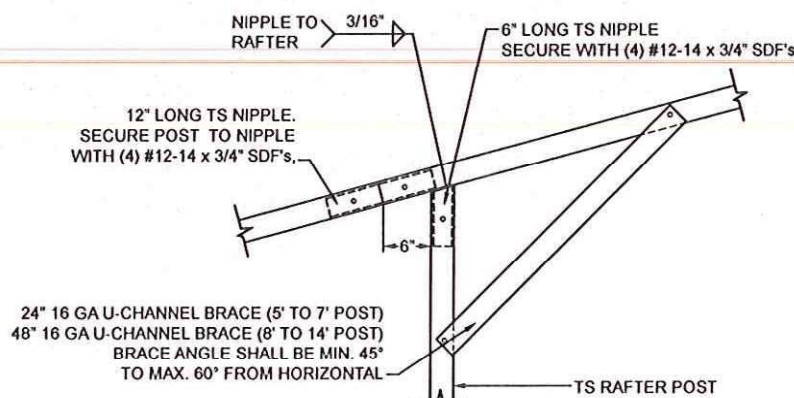
10 FRAMEOUT/ROLL UP POST / BASE RAIL CONN. DETAIL
Not To Scale



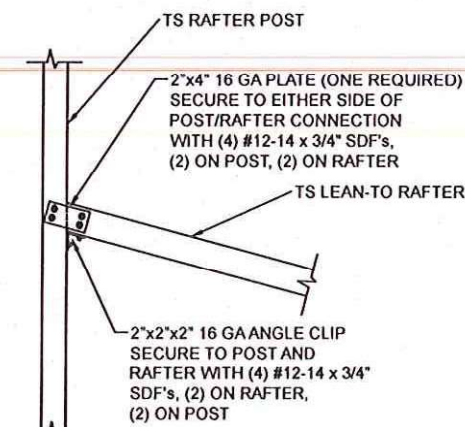
11A GABLE RAIL TO RAFTER POST CONNECTION DETAIL
Not To Scale



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

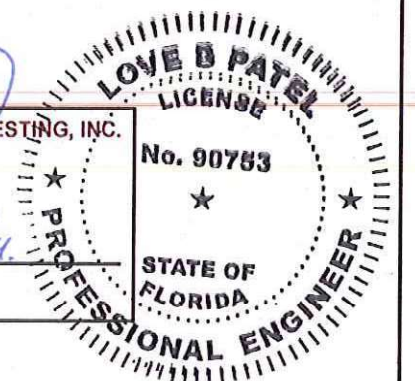


12 SIDE EXTENSION RAFTER/POST DETAIL
Not To Scale



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

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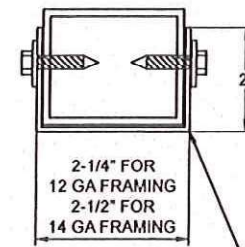


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FIELD	DATE	1/1/2024
DRAWN	MKB / CS	SCALE NTS
CHECKED	TB / CS	PROJ NO G24001
APPROVED	TB / LP	SHEET 5 OF 6

VERTICAL SIDE OPTION

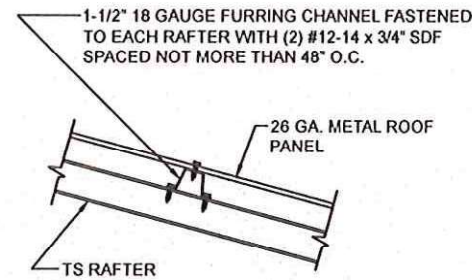


2-1/4" FOR
12 GA FRAMING
2-1/2" FOR
14 GA FRAMING

16 GAUGE U-CHANNEL BRACE
FASTENED TO THE POST AND
RAFTER WITH (2) #12-14 x 3/4" SDF'S
AT EACH END (4 PER BRACE)

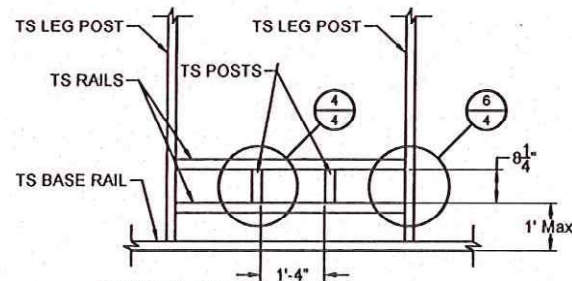
BRACE SECTION

Not To Scale



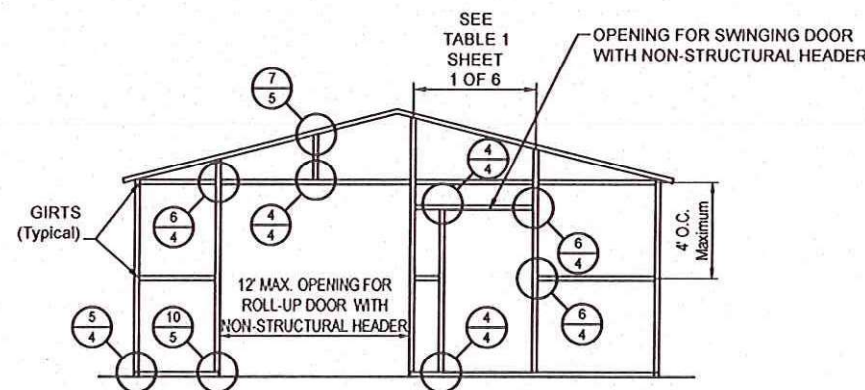
ROOF PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
Not To Scale



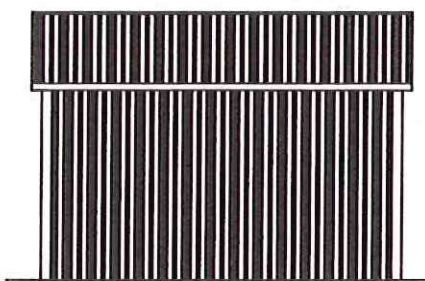
TYPICAL FLOOD
VENT FRAMING PLAN
NOT TO SCALE

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

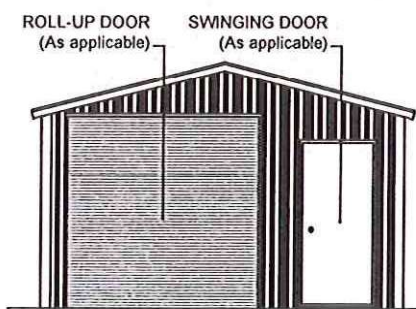


TYPICAL END
WALL OPENINGS POST/RAFTER/GIRT FRAMING PLAN
NOT TO SCALE

BOX EAVE FRAME RAFTER ENCLOSED BLDG - VERTICAL SIDES

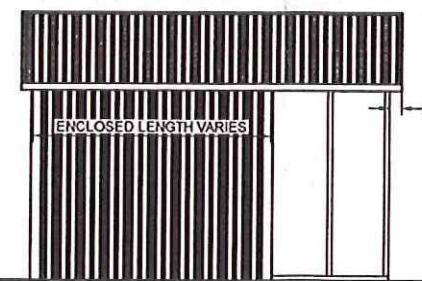


TYPICAL SIDE ELEVATION
NOT TO SCALE

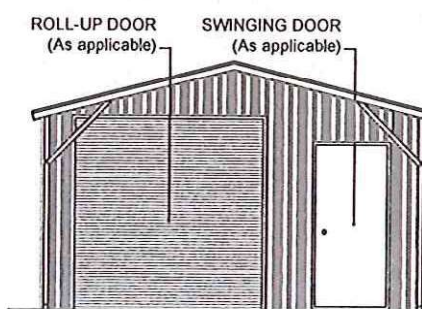


TYPICAL END ELEVATION
NOT TO SCALE

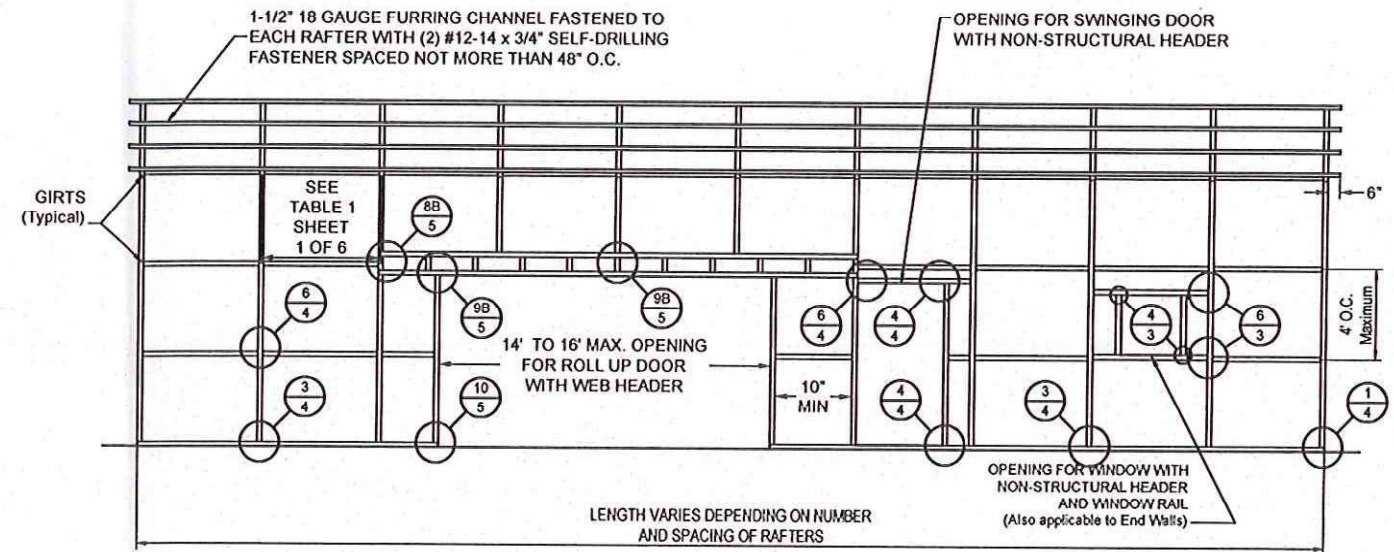
BOX EAVE FRAME RAFTER UTILITY BLDG - VERTICAL SIDES



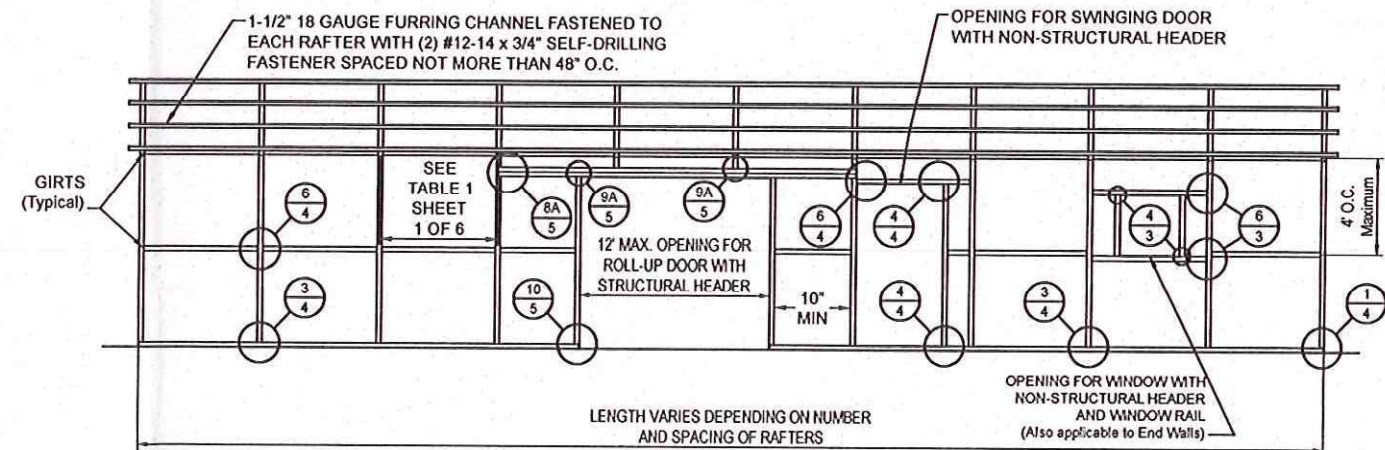
TYPICAL SIDE ELEVATION
NOT TO SCALE



TYPICAL END ELEVATION
NOT TO SCALE

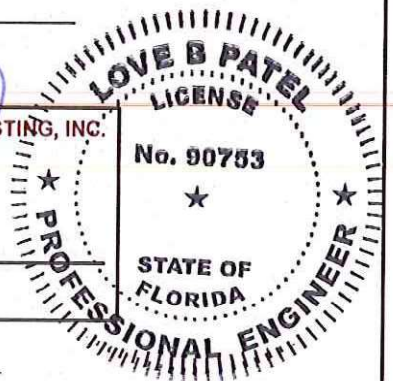


TYPICAL POST/RAFTER/GIRT FRAMING PLAN
NOT TO SCALE



TYPICAL POST/RAFTER/GIRT FRAMING PLAN
NOT TO SCALE

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	DRAWN	MKB/CS	SCALE	NTS
	CHECKED	TB/CS	PROJ NO.	G24001
	APPROVED	TB/LP	SHEET	6 OF 6