

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

WIND EXPOSURE CATEGORY	ULTIMATE WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM GROUND SNOW LOAD (PSF)	MAXIMUM POST/RAFTER SPACING (FEET)	AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS OR GIRTS (INCHES)	
					METAL PANELS	SPACING
B, C OR D	105 TO 170	82 TO 132	30	4.0	26 gauge	6

NOTES: 1. Specifications applicable to 26 or 29 gauge metal panels fastened directly to 12 or 14 gauge steel tube bow frames.  
2. Fasteners consist of #12-14 x 3/4" self-drilling screws without control seal washer.  
3. Specifications applicable only for mean roof height of 24 feet or less and roof slopes of 7 to 27 degrees (1.5:12 to 6:12 pitch). Spacing requirements for other roof heights and/or slopes may vary.

APPROVED PRODUCTS LIST

PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	HVHZ	APPROVAL No. & DATE
STRUCTURAL COMPONENTS	ROOF DECK	CAROLINA CARPORTS, INC. 26 Ga. AG Roof Panel	NO	12/15/20 FL6596.1-R6
		29 Ga. AG Roof Panel	NO	FL6596.2-R6 06/20/23
		26 Ga. PBR Roof Panel	NO	FL42078.1-R0
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAROLINA CARPORTS, INC. 26 Ga. AG Wall Panel	NO	12/15/20 FL6702.1-R6
		29 Ga. AG Wall Panel	NO	FL6702.2-R6
		26 Ga. Dutch Lap Wall Panel	NO	FL6702.3-R6
		29 Ga. Dutch Lap Wall Panel	NO	FL6702.4-R6 06/20/23
		26 Ga. PBR Wall Panel	NO	FL42077.1-R0
STRUCTURAL COMPONENTS	FLOOD VENTS	FLOOD FLAPS, LLC 7x16 Flood Flap	NO	11/04/21 FL17381.1-R4
STRUCTURAL COMPONENTS	FLOOD VENTS	CRAWL SPACE DOOR SYSTEMS 8x16 Model CSBA816	NO	02/28/21 FL29622.1-R1
EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY Series 402-14	NO	02/28/21 FL17996.3-R2
		Series 407	NO	FL17966.5-R2
EXTERIOR DOORS	SWINGING	POCAHONTAS ALUMINUM Co., INC. DD 100	NO	08/16/22 FL12903.1-R7
EXTERIOR DOORS	ROLL-UP	CAROLINA CARPORTS, INC. 26 Ga. Steel Roll Up Sheet Door	NO	06/07/22 FL41335.1-R1
		12' x 8' 26 Ga. Steel Door	NO	12/16/20 FL16806.1-R5
		8' x 8' 26 Ga. Steel Door	NO	FL16806.2-R5
		16' x 8' 26 Ga. Steel Door	NO	FL16806.3-R5
		10' x 8' 26 Ga. Steel Door	NO	FL16806.4-R5
WINDOWS	SINGLE HUNG	MI WINDOWS AND DOORS Model 185 SH	NO	11/27/20 FL17499.1-R8
WINDOWS	SINGLE HUNG	APPLE FASTENERS, INC. Series Storage Shed	NO	02/09/21 FL21990.1-R1

NOTE: THE HIGH VELOCITY HURRICANE ZONE (HVHZ) INCLUDES BROWARD & DADE COUNTIES.

GENERAL NOTES:

THESE PLANS PERTAIN ONLY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM (MWFRS), COMPONENTS AND CLADDING, AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING, BUT NOT LIMITED TO, PLUMBING, ELECTRICAL, INGRESS/EGRESS, PROPERTY SET-BACKS, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE RESPONSIBILITY OF OTHERS.

THESE STRUCTURES ARE DESIGNED AS UTILITY/STORAGE BUILDINGS CAPABLE OF SUPPORTING THE DEAD LOAD OF THE STRUCTURE AND APPLICABLE LIVE AND WIND LOADS. IMPROVEMENTS NOT SPECIFICALLY ADDRESSED HEREIN, WHICH EXERT ADDITIONAL LOADS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK. CAROLINA CARPORTS SHALL NOT BE RESPONSIBLE FOR STRUCTURAL DAMAGE OR FAILURE DUE TO THE APPLICATION OF ADDITIONAL LOADS.

ALL STEEL TUBING SHALL BE 55 KSI STEEL OR BETTER. ALL METAL PANELS SHALL BE 80 KSI STEEL OR BETTER.

FASTEN METAL ROOF AND WALL PANELS TO FRAMING WITH #12" x 3/4" SELF DRILLING FASTENERS WITH CONTROL SEAL WASHERS AT AN AVERAGE SPACING OF 8" FOR 29 GAUGE PANELS AND 6" FOR 26 GAUGE PANELS.

ALL FIELD CONNECTIONS SHALL BE #12 x 3/4" SELF DRILLING FASTENERS (SDF) UNLESS NOTED OTHERWISE.

ALL WELDED CONNECTIONS SHALL BE SHOP WELDED UNLESS NOTED OTHERWISE.

GROUND ANCHOR REQUIREMENTS: INSTALL HELICAL ANCHORS WITHIN 6" OF EACH CORNER POST AND AT A MAXIMUM SPACING OF 25' ALONG THE BASE RAIL. INSTALL GROUND RODS (#4 THREADED REBAR) BETWEEN THE HELICAL ANCHORS AT A MAXIMUM SPACING OF 5' AND A MINIMUM SPACING OF 4' ALONG THE BASE RAIL. HELICAL ANCHORS AND GROUND RODS ARE NOT REQUIRED FOR CONCRETE FOOTING AND/OR CONCRETE SLAB CONSTRUCTION.

CONCRETE ANCHORS SHALL BE **SIMPSON STRONG-TIE TITEN HD SCREW ANCHOR** OR AN APPROVED EQUAL.

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

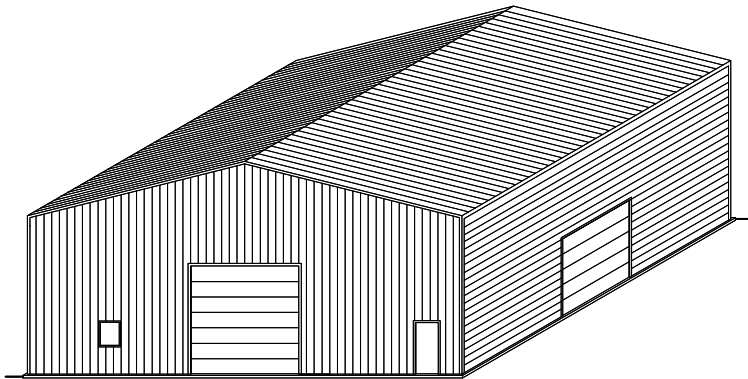
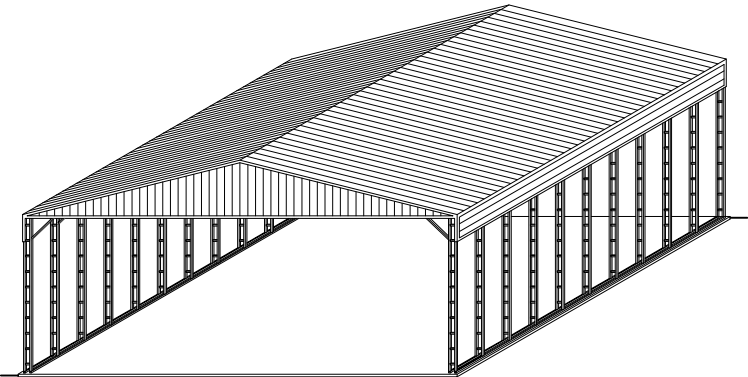
PROVIDE LONGITUDINAL BRACING ON TOP OF THE BOTTOM CHORD OF THE ROOF TRUSS FOR THE FULL LENGTH OF THE BUILDING AS INDICATED.

GALVANIZATION: METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

# STANDARD BUILDING DETAILS 60 ft SPAN

## LIGHT FRAME CONSTRUCTION

NOTE: USE 2 1/2" x 2 1/2" 14 Ga.  
2 1/4" x 2 1/4" 12 Ga.  
STEEL TUBE FOR ALL FRAME AND BASE  
RAIL MEMBERS UNLESS OTHERWISE SHOWN.



### CONCRETE FOUNDATION DESIGN RECOMMENDATIONS:

CONCRETE INFORMATION AND DETAILS SHOWN IN THESE PLANS ARE FOR INFORMATION ONLY. THE CONCRETE SLAB AND FOUNDATION ARE BY OTHERS. THE OWNER IS RESPONSIBLE FOR PROVIDING A SUITABLE FOUNDATION FOR THE PROPOSED STRUCTURE AND COORDINATING CONCRETE STRENGTH AND FOUNDATION DEPTH REQUIREMENTS WITH THE LOCAL BUILDING CODE OFFICIALS.

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS OR AS REQUIRED BY LOCAL BUILDING CODE. THE USE OF HIGHER STRENGTH CONCRETE IS ACCEPTABLE.

COVER OVER REINFORCING STEEL:  
MINIMUM CONCRETE OVER REINFORCING BARS SHALL BE 3 INCHES WHERE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2" ELSEWHERE.

REINFORCING STEEL:  
THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40. THE USE OF FIBER REINFORCED CONCRETE (FRC) OR WELDED WIRE FABRIC (WWF) IS ACCEPTABLE.



**CAROLINA CARPORTS INC.**  
P.O. BOX 1263  
DOBSON, NC 27017  
TOLL FREE 1-800-670-4262  
LOCAL 336-367-6400  
FAX 336-367-6410

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## METAL CARPORT INSTALLATION PLANS AND DETAILS AND FRAMING AND FASTENER SPECIFICATIONS

### CAROLINA CARPORTS, INC.

187 Cardinal Ridge Trail  
DOBSON, NORTH CAROLINA 27017

THE OWNER IS RESPONSIBLE FOR OBTAINING A  
BUILDING PERMIT, IF NEEDED, AND FOR COMPLYING  
WITH ALL LOCAL BUILDING CODE REQUIREMENTS.

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 THE INTERNATIONAL BUILDING CODE 2021 AND SECTION 1609 OF THE FLORIDA BUILDING CODE, EIGHTH EDITION (2023). THE PLANS ARE VALID UNTIL THE NEXT REVISION OF THE FLORIDA BUILDING CODE.

BUILDING CODE INFORMATION	
OCCUPANCY CATEGORY	II
USE GROUP	U or S
CONSTRUCTION TYPE	2B

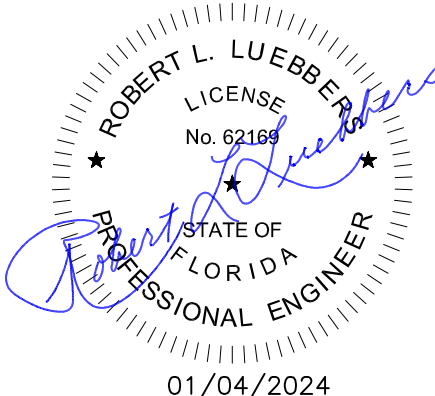
IMPORTANCE FACTORS	
WIND Iw	1.0
SNOW Is	1.0
EARTHQUAKE Ie	1.0

DESIGN LOADS	
MIN. DEAD LOAD	5 PSF
MIN. FLOOR LIVE LOAD	125 PSF
MIN. ROOF LIVE LOAD	20 PSF
MIN. GROUND SNOW LOAD	0 PSF
MAX. GROUND SNOW LOAD	SEE TABLE 1
MIN. ULTIMATE WIND SPEED	
MAX. ULTIMATE WIND SPEED	
EXPOSURE CATEGORY	0.500
SEISMIC RESPONSE COEFFICIENT	

These plans have been provided for  
the purpose of obtaining a building  
permit for:

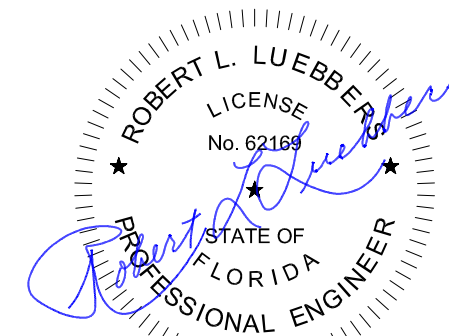
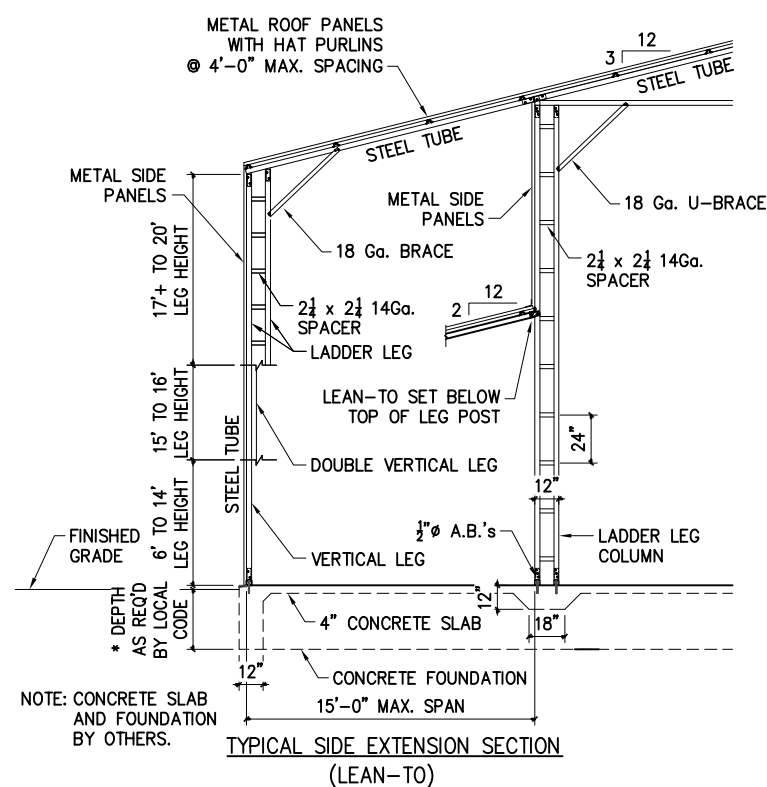
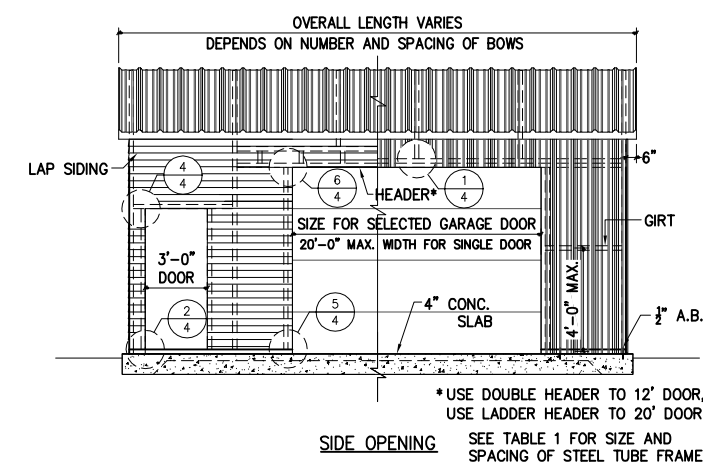
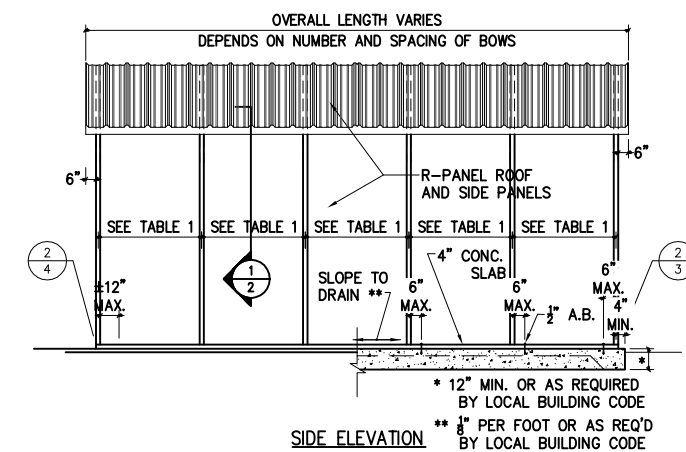
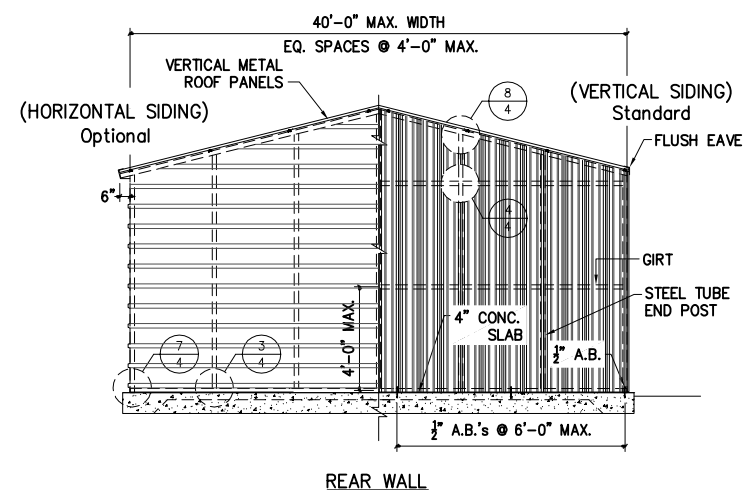
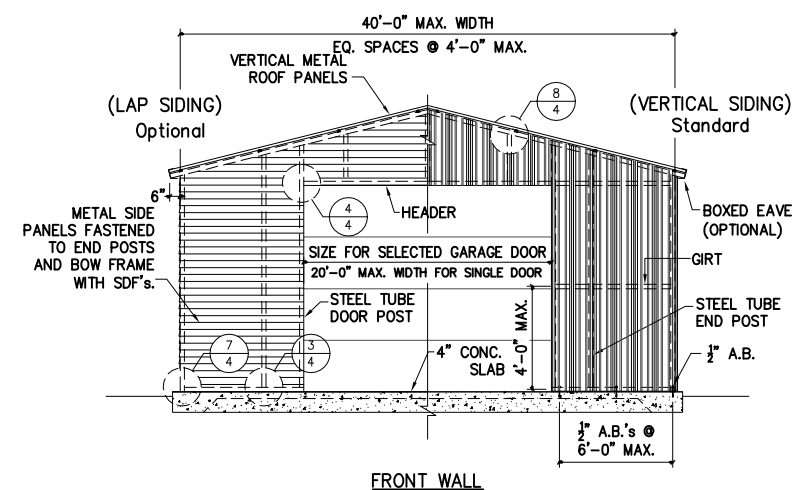
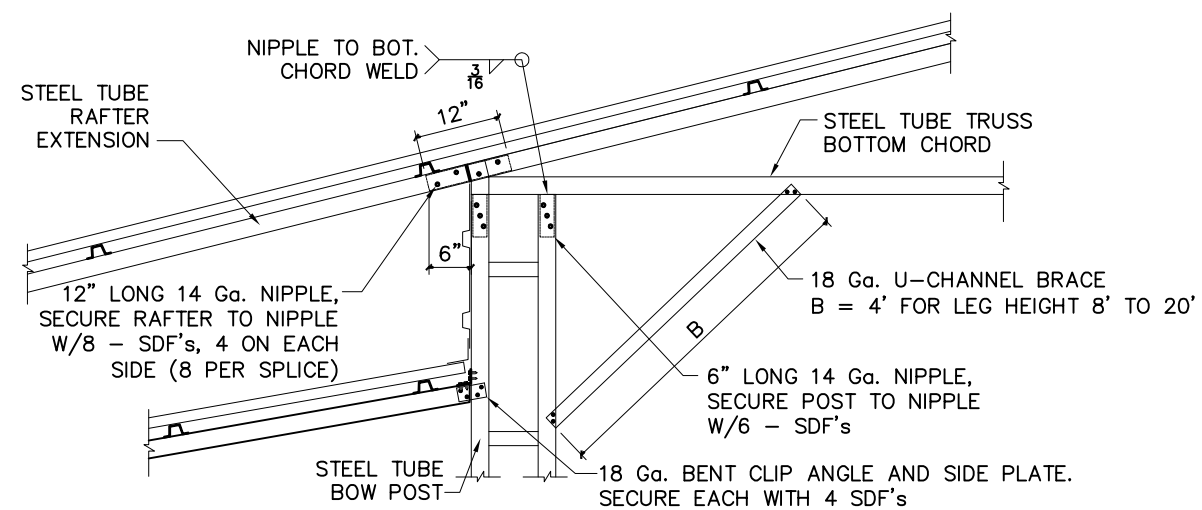
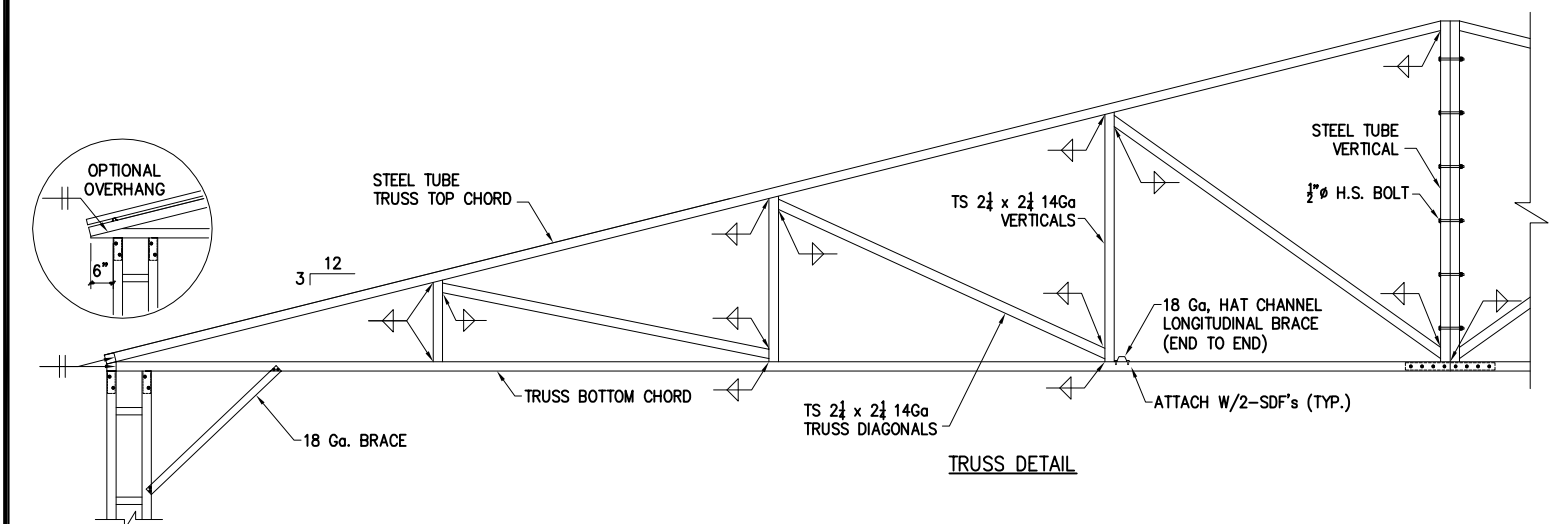
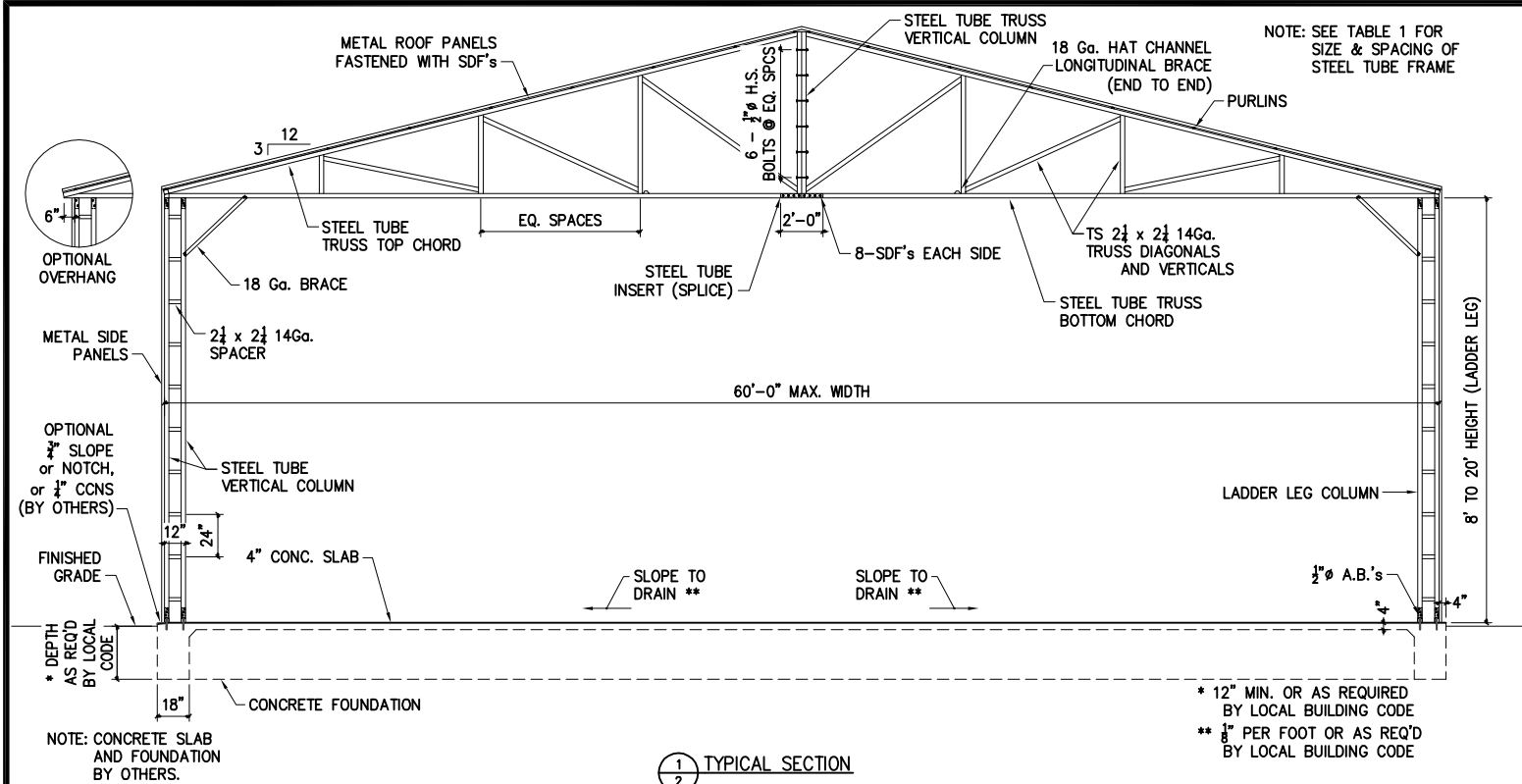
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Zip: \_\_\_\_\_

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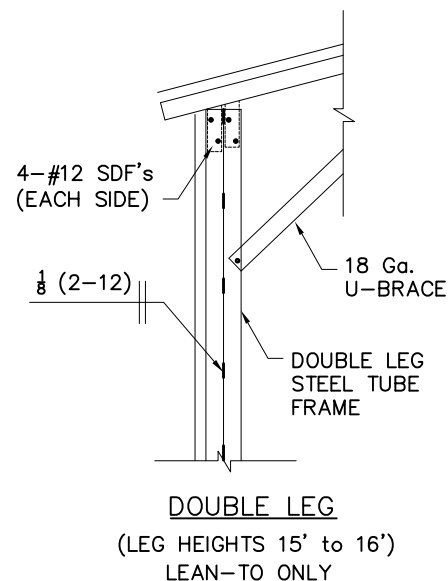
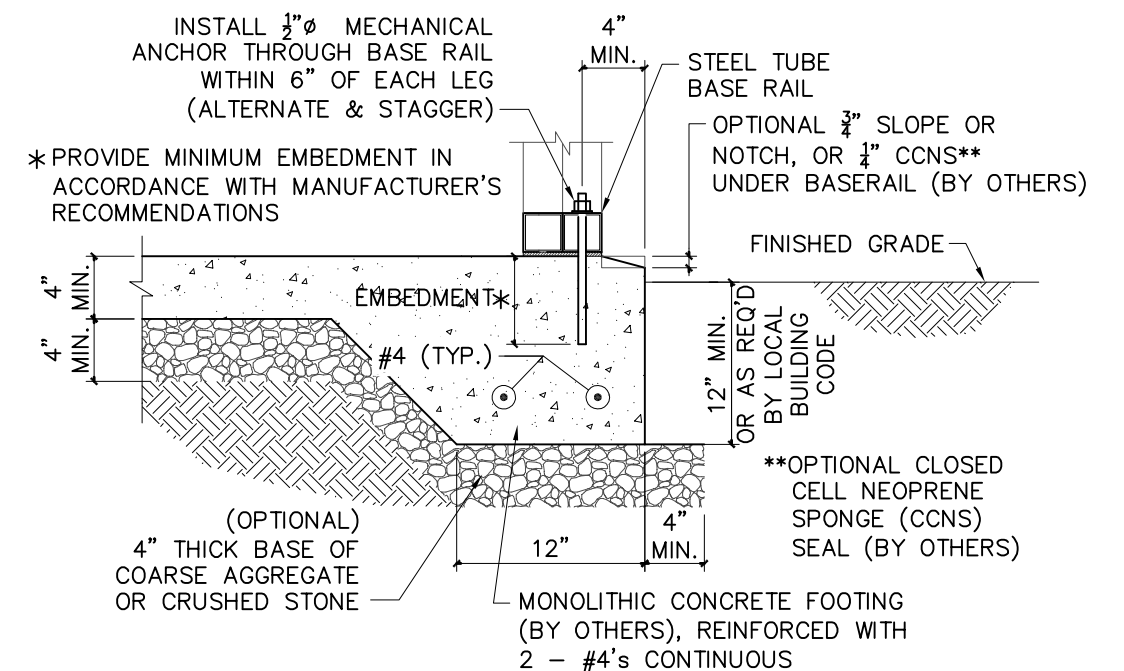
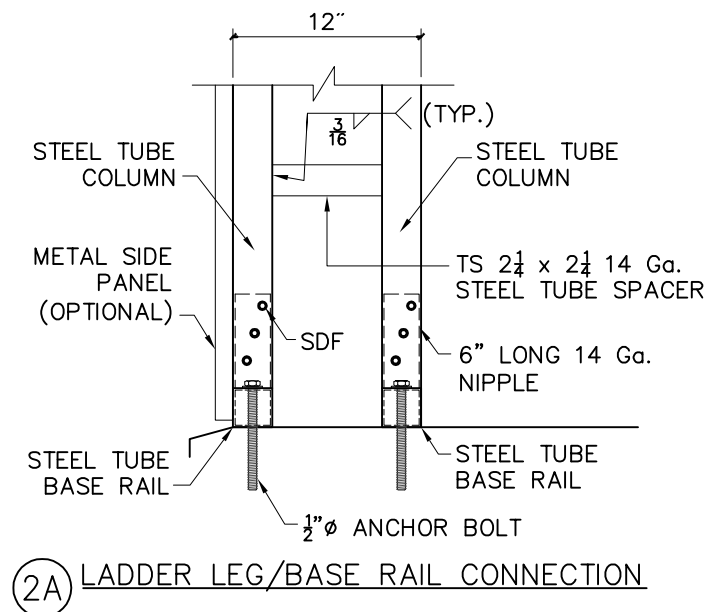
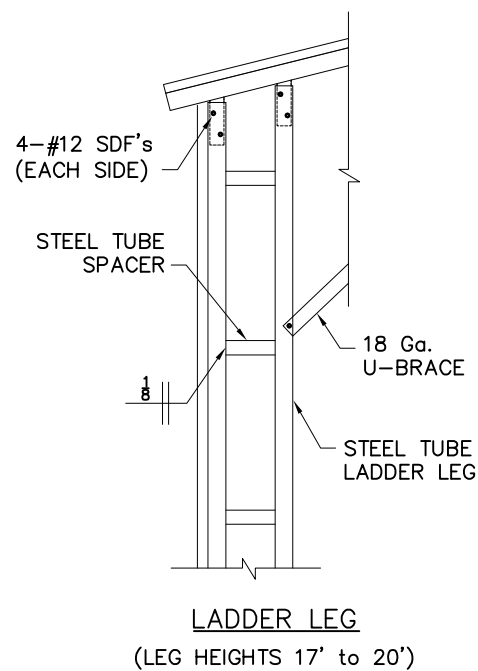
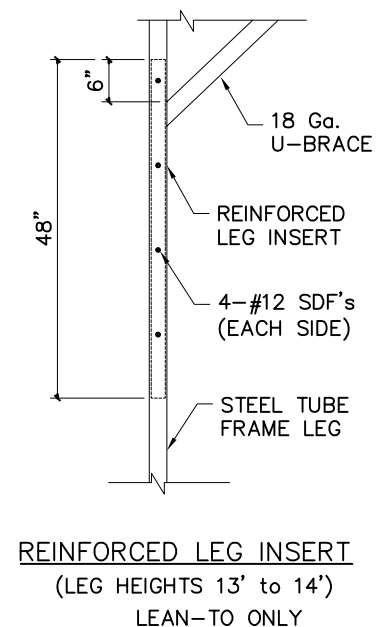
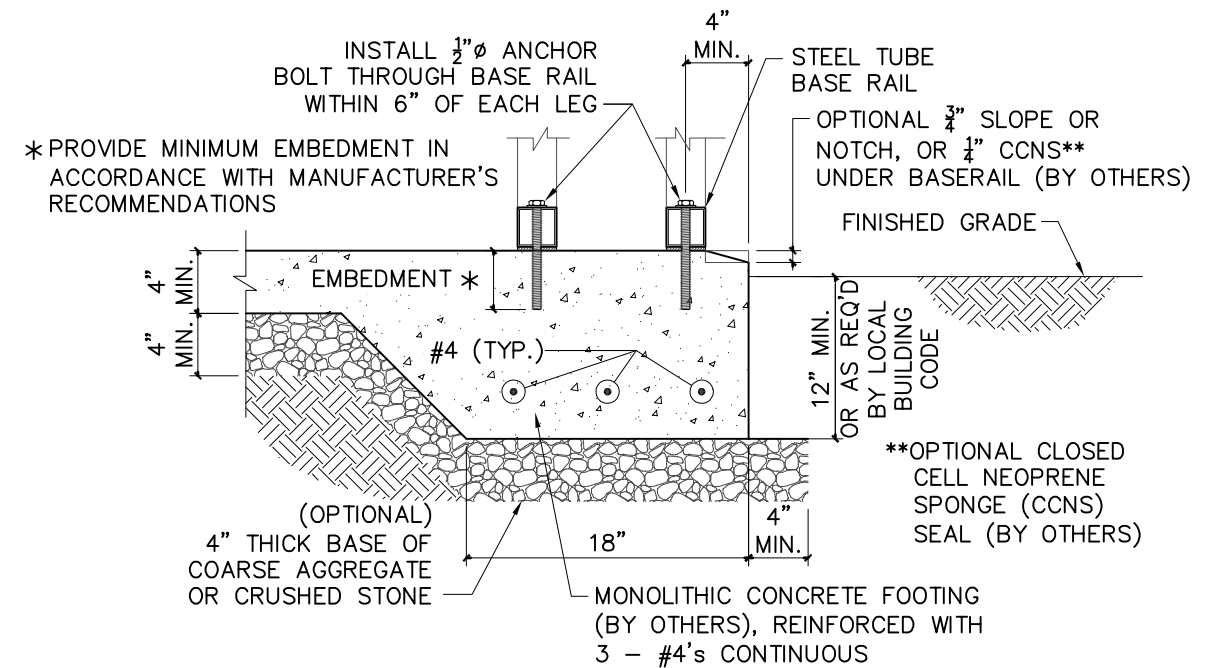
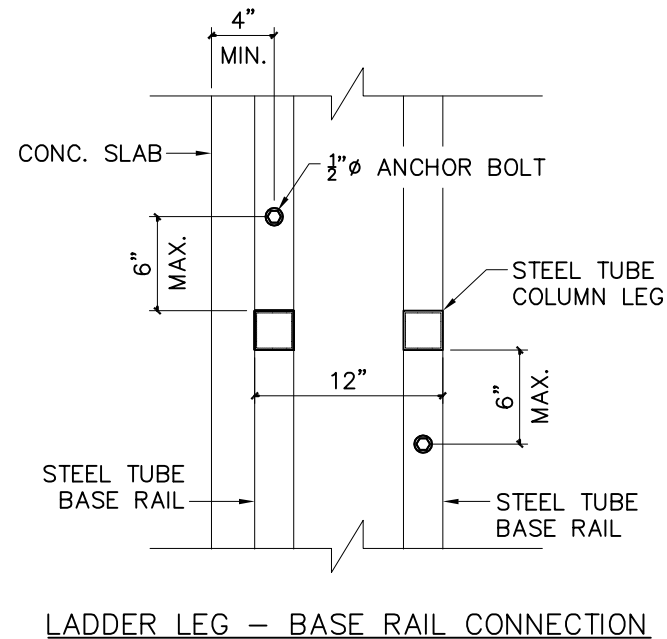
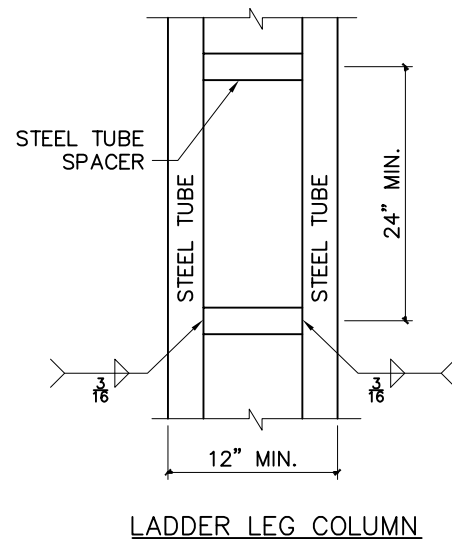
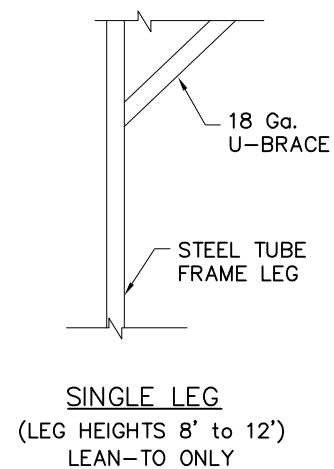
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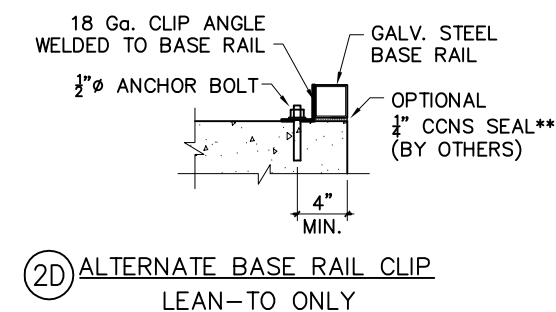
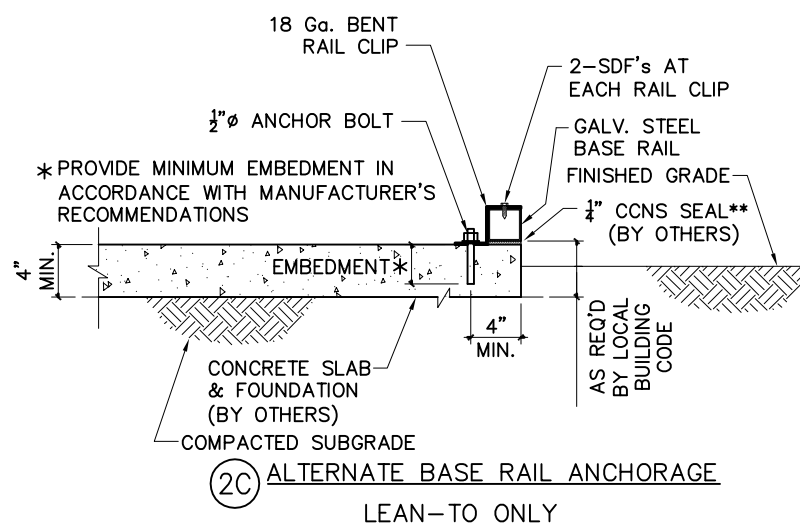
SHEET 2 OF 4



**BREAKAWAY**

**CRAWL SPACE DOOR SYSTEMS, INC.**  
5741 Bayside Road, #105  
Virginia Beach, VA 23455  
Engineered Flood Vent  
Model CSBA816

OR Approved Equal  
**FLOOD VENTS**



ROBERT L. LUEBBER  
LICENSE  
No. 62169  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER  
01/04/2024

