

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 OR C	105 TO 140	82 TO 108	35	5.0	29 Gauge	8
			45	4.0		
			65	4.0 (12 Ga.)		

NOTES: 1. Specifications applicable to 26 or 29 gauge metal panels fastened directly to 12 or 14 gauge steel tube frames.
 2. Fasteners consist of #12 x 3/4" self-drilling screws without control seal washers.
 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.

TABLE 1 (HIGH WIND REGION)
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 OR C	141 TO 150	109 TO 116	30	4.0	29 Gauge	8
B, C OR D	151 TO 170	117 TO 132	20	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 frames.
 2. Fasteners consist of #12 x 3/4" self-drilling screws without control seal washers.
 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.

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.

THE SPACING INDICATED IN THE ABOVE TABLE IS THE MAXIMUM SPACING FOR THE MAIN WIND FORCE RESISTING SYSTEM. A CLOSER SPACING MAY BE NEEDED TO MEET LOCAL BUILDING CODE AND/OR SITE SPECIFIC REQUIREMENTS.

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 EXPANSION ANCHORS SHALL BE ITW RAMSET/REDHEAD TRUBOLT WEDGE ANCHOR, WEJ-IT ANKR-TITE MODEL AT1252, SLEEVE ANCHOR MODEL HSA 1260, ITW Redhead TAPCON+, OR APPROVED EQUAL.

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

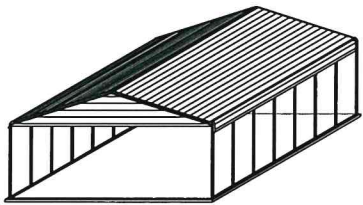
GALVANIZATION: METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

STANDARD CARPORT DETAILS

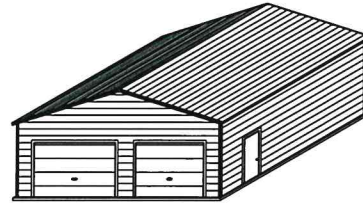
26 ft to 30 ft SPAN

LIGHT FRAME CONSTRUCTION

NOTE: USE $\odot 2\frac{1}{2}" \times 2\frac{1}{2}"$ 14 Ga.
 $\odot 2\frac{1}{4}" \times 2\frac{1}{4}"$ 12 Ga.
 STEEL TUBE FOR ALL FRAME AND BASE RAIL MEMBERS UNLESS OTHERWISE SHOWN.



ISOMETRIC



ISOMETRIC

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.



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 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 2009, 2012, 2015 & 2018 INTERNATIONAL BUILDING CODES AND THE 2018 NORTH CAROLINA BUILDING CODE.

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

IMPORTANCE FACTORS		
WIND <i>Iw</i>	1.0	
SNOW <i>I_s</i>	0.8	1.0
EARTHQUAKE <i>I_e</i>	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	SEE TABLE 1	
MAX. GROUND SNOW LOAD		
MIN. ULTIMATE WIND SPEED		
MAX. ULTIMATE WIND SPEED		
EXPOSURE CATEGORY		
SEISMIC RESPONSE COEFFICIENT	0.500	

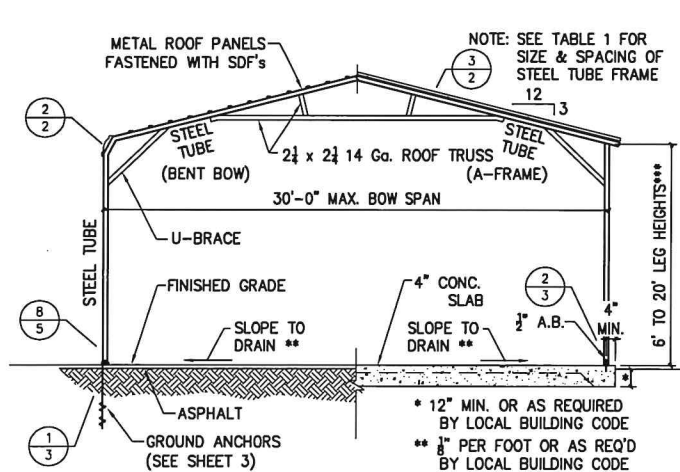
These plans have been provided for the purpose of obtaining a building permit for:

Name: John McArthan
 Address: 5330 Elliot Bridge Rd
 City: Linden State: NC
 Zip: 28356

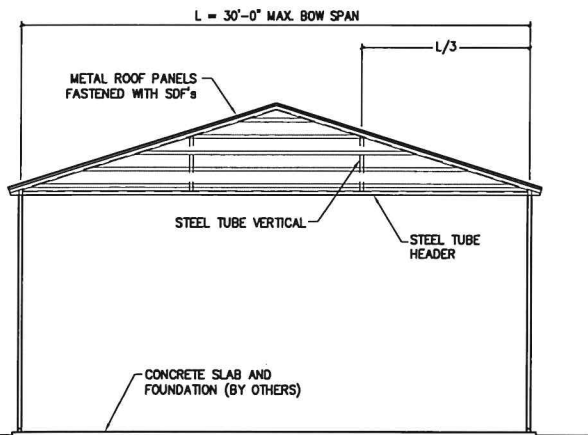
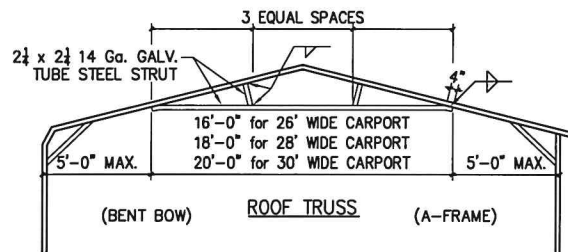
Use of these plans by anyone else or for any other purpose is prohibited.



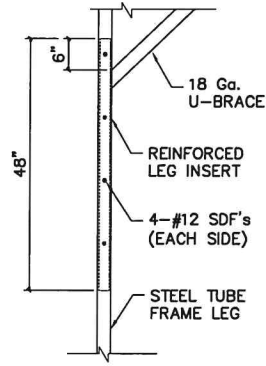
12/03/2020



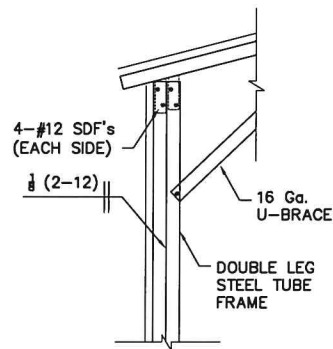
1 TYPICAL BOW SECTION



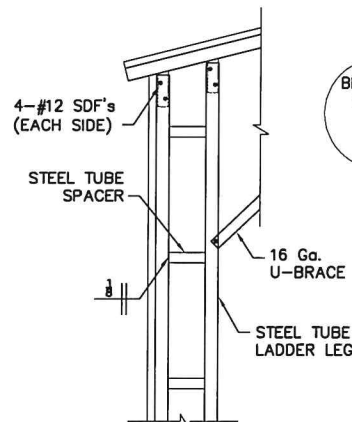
GABLE END ELEVATION



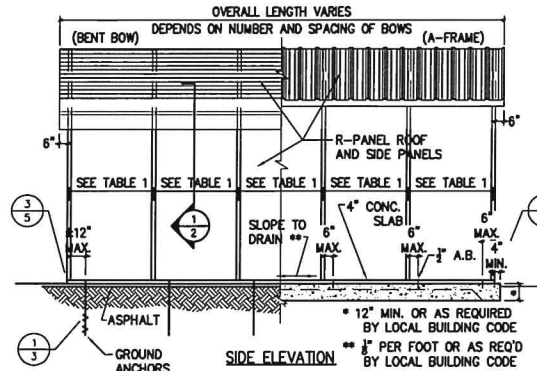
*** REINFORCED LEG INSERT (LEG HEIGHTS > 12' to 14')



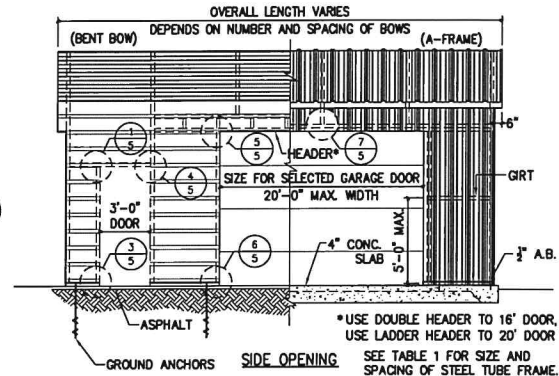
*** DOUBLE LEG (LEG HEIGHTS > 12' to 14')



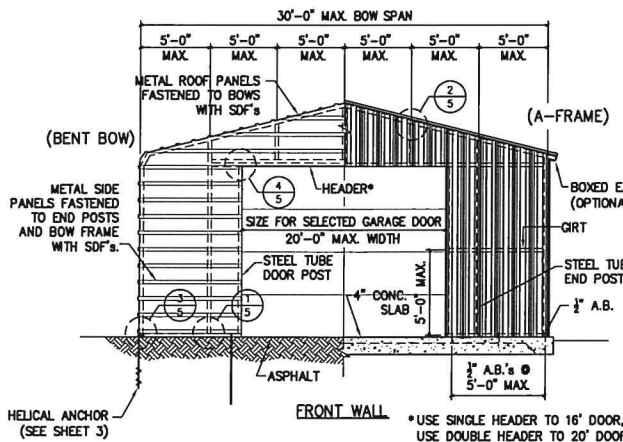
*** LADDER LEG (LEG HEIGHTS 16' to 20')



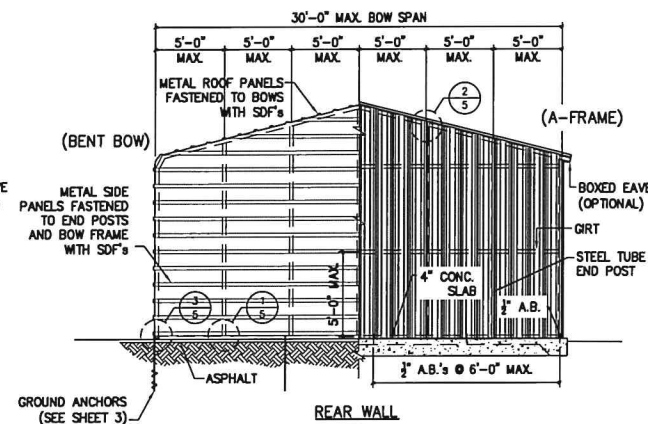
SIDE ELEVATION



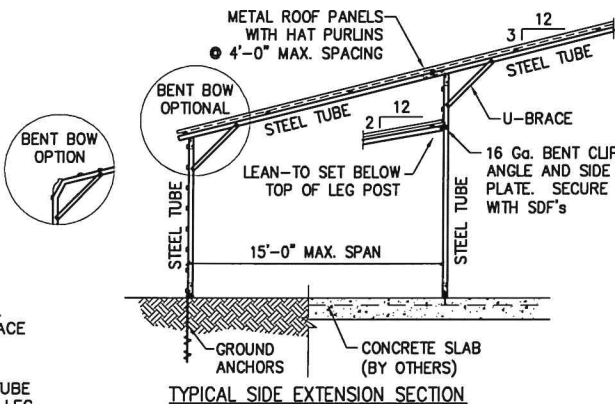
SIDE OPENING



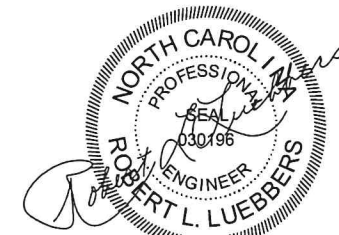
FRONT WALL



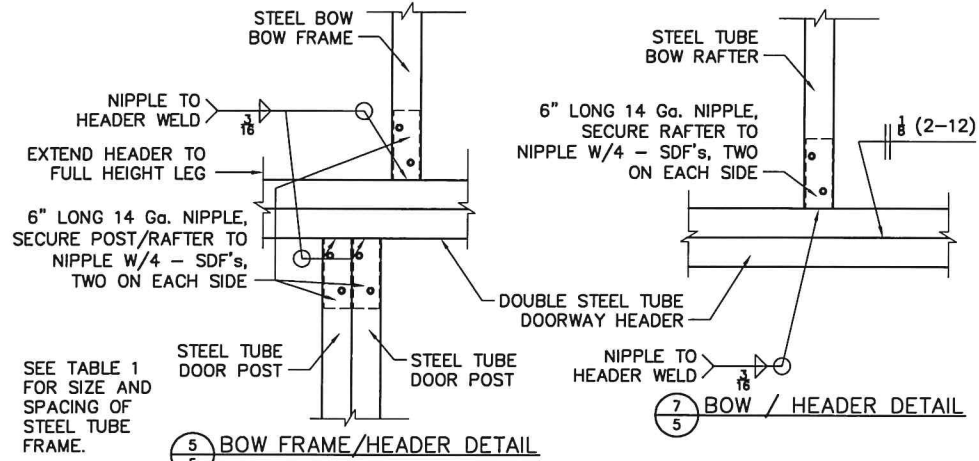
REAR WALL



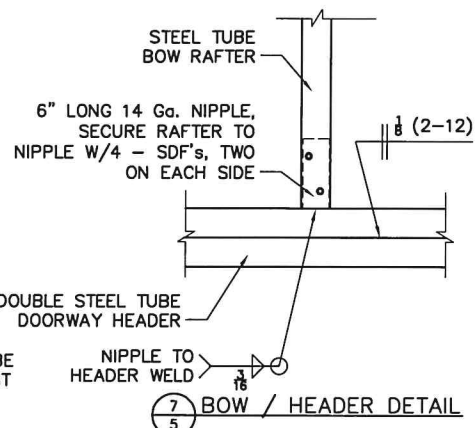
TYPICAL SIDE EXTENSION SECTION



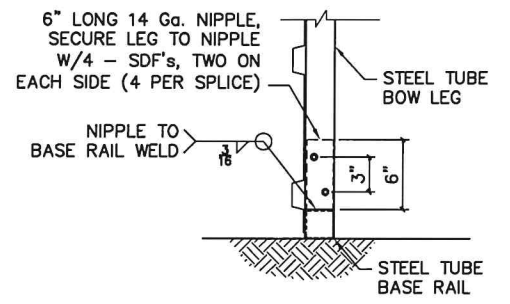
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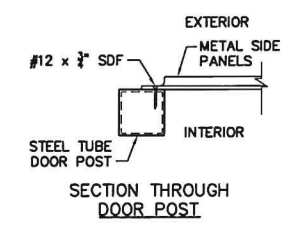
5 BOW FRAME/HEADER DETAIL



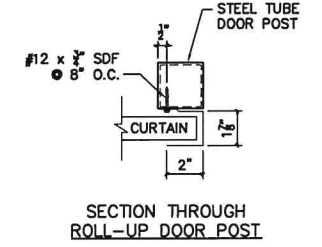
7 BOW / HEADER DETAIL



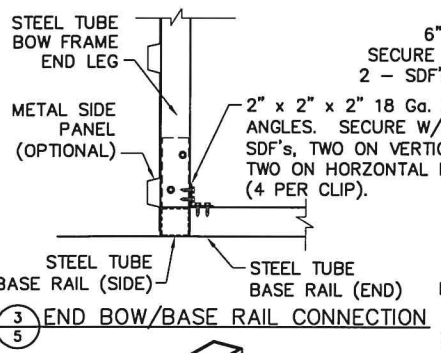
8 BOW/BASE RAIL CONNECTION DETAIL



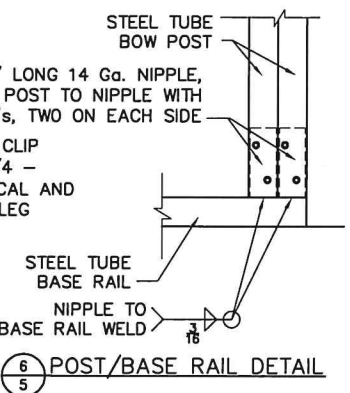
SECTION THROUGH DOOR POST



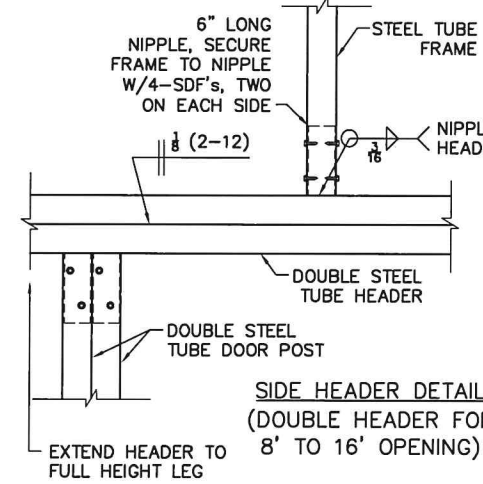
SECTION THROUGH ROLL-UP DOOR POST



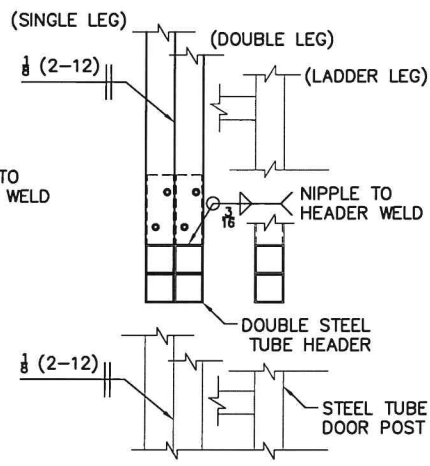
3 END BOW/BASE RAIL CONNECTION



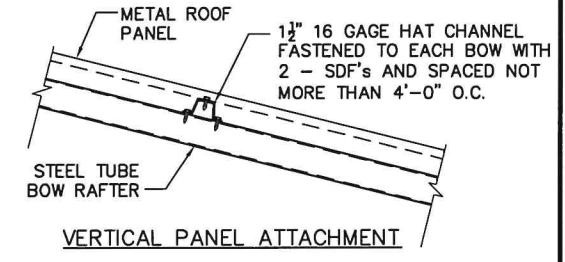
6 POST/BASE RAIL DETAIL



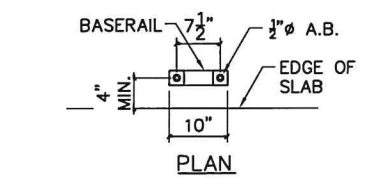
4 ENDWALL TO HEADER OR GIRT TO POST CONNECTION



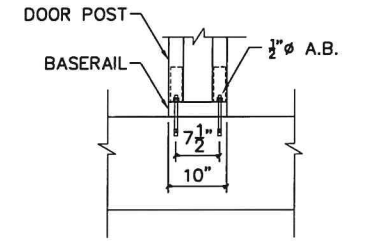
8 BOW/POST DETAIL



VERTICAL PANEL ATTACHMENT



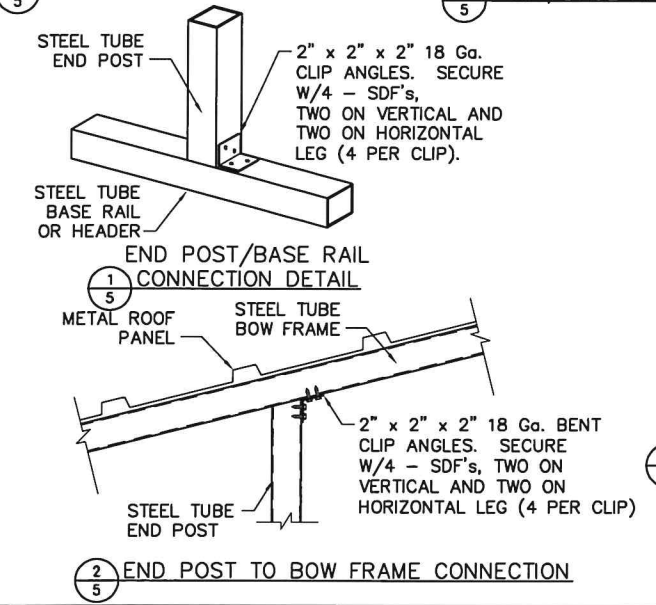
PLAN



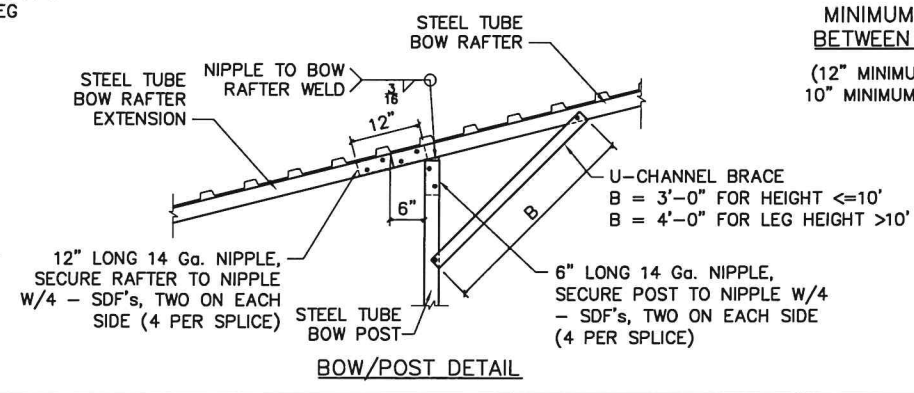
MINIMUM DISTANCE BETWEEN DOORWAYS

(12\"/>

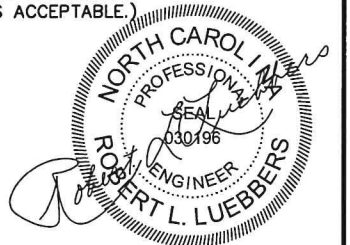
MAX. PURLIN SPACING	
GROUND SNOW LOAD PSF	PURLIN PANEL SPAN FT.
20	4.00
30	4.00
35	4.00
45	4.00
65	4.00
75	3.50
90	3.00



2 END POST TO BOW FRAME CONNECTION



BOW/POST DETAIL



12/03/2020