

1. DESIGN IS FOR MAXIMUM 30'-0" WIDE X 26'-0" EAVE HEIGHT FULLY ENCLOSED STRUCTURES.
2. APPLICABLE CODES, REGULATIONS & STANDARDS:

 - A. 2024 INTERNATIONAL BUILDING CODE
 - B. 2024 INTERNATIONAL BUILDING CODE (8TH EDITION)
 - C. ASCE 7-22: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
 - D. ACI 309R-20: CONCRETE REPAIR MANUAL
 - E. ACI 318-19: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - F. TMS 402-16B: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
 - G. AWS D1.1 - STRUCTURAL WELDING
3. RISK CATEGORY: I
4. EXPOSURE CATEGORY: C

5. CLIMATE ZONE SHED USED TO 15.0 MPH (NOMINAL) WIND SPEED 81 TO 116 MPH); MAXIMUM ALLOWABLE HAIL SIZE 1.5 INCHES; MAXIMUM SPOON = 1.5 FEET
HIGH URBAN CLIMATE WIND SPEED 151 TO 180 MPH (NOMINAL) WIND SPEED 117 TO 139 MPH); MAXIMUM WATER/PARTICLE END POST SPACING = 4.0 FEET.
6. DEAD LOAD = 10 PSF
7. LIVE LOAD = 10PSF
8. SPECIFICATIONS APPLICABLE TO .29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2.1/2"x 2.1/2"-x 1/4" GUAGE LITE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS. .29 GAUGE METAL PANEIS SHALL BE FASTENED TO 18 GAUGE HOT CHANNELS (UNLESS OTHERWISE NOTED).
7. OPTIONAL BASE RAIL ANCHORAGE MAY BE USED FOR LOW AND MUST BE USED FOR HIGH WIND SPEEDS.
8. FASTERERS CONSIST OF #12-1/4"x 3/4" SELF DRILLING FASTENER (SDP). USE CONTROL SEAL WASHER OR FLANGE PLATE WITH NUT AND BUSHING. PROVIDE 12" CLEARANCE FROM ALL SURFACE CONDITIONS, ROOF SLORES AND FOOT SLIPS OF 1/4" (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOP HEIGHTS AND/OR SLOPES MAY VARY.
9. AVERAGE FASTER LINE SPACING ON CENTERS ALONG RAFTERS OR PURLINS, AND POSITS, INTERIOR = 9"
OR END= 6". (MAX.).
10. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
RISK CATEGORY II/III
 $R = 3.25 \quad I_e = 1.0$
 $S_{ds} = 0.087\text{g} \quad V = CSW$
 $S_{dl} = 0.084\text{g}$
11. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN SIDING SIDES.
12. GROUND ANCHORS (SOIL NAILS) CONSIST OF #5 REBAR W/ WELDED NET X 30" LONG IN SUITABLE SOIL CONDITIONS MAY BE USED FOR LOW (≤ 108 MPH NOMINAL) WIND SPEEDS ONLY. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USE IN UNSUITABLE SOILS AS NOTED.
13. MIN. LAP REQUIREMENT FOR REBAR IN FOOTER IS 25".
14. SOIL TO BE COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT,
IN ACCORDANCE WITH ASTM D1557-93
15. PRIOR TO PLACING CONCRETE, TREAT THE ENTIRE SUBSURFACE AREA FOR TERMITES IN COMPLIANCE WITH THE FBCC.

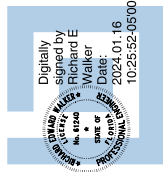
PAGE NO.	DESCRIPTION
1	NOTES AND SPECIFICATIONS
2	BOX EAVE FRAME RAFTER ENCLOSED BUILDING
3	BOW EAVE FRAME RAFTER ENCLOSED BUILDING/WIND PRESSURES
4	BASE RAIL AND FOUNDATION ANCHORAGE
5	BOX/BOW EAVE VERTICAL ROOF/SIDING OPTION
6	BOX/BOW EAVE RAFTER LEAN-TO OPTIONS
7	BOX EAVE RAFTER END WALL, SIDE WALL AND OPENING FRAMING
8	VENT AND CHIMNEY STEM WALL DETAIL
9	OPTIONAL CONCRETE STRIP FOOTING

PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE
STRUCTURAL COMPONENTS	ROOF DECK	CAPITAL METAL SUPPLY, INC. 29 GA. CAPITAL RIB ROOF PANEL	FL20147.2-R3 12/13/2023
	STRUCTURAL COMPONENTS	CAPITAL METAL SUPPLY, INC. 29 GA. CAPITAL RIB WALL PANEL	FL20148.2-R3 12/13/2023
EXTERIOR DOORS	ROLL-UP	JANUS INTERNATIONAL GROUP, LLC SERIES 3852	FL14425.1-R6 1/2/15/21
EXTERIOR DOORS	ROLL-UP	JANUS INTERNATIONAL GROUP, LLC SERIES 750	FL21450.10-R11 10/17/23
EXTERIOR DOORS	ROLL-UP	JANUS INTERNATIONAL GROUP, LLC SERIES 3100	FL12765.4-R6 10/12/20
EXTERIOR DOORS	SWINGING	ELBUR DOOR AND METAL COMPANY SERIES 407	FL17996.5-R3 12/26/23
WINDOWS	SINGLE HUNG	KINRO, INC 9750 SH	FL993.5-R19 11/01/23
WINDOWS	VERTICAL SLIDING	KINRO, INC 18000-R V5	FL993.8-R19 11/01/23

TRACTOR:	PROJECT DESCRIPTION:
TUBULAR BUILDING SYSTEM 631 SE INDUSTRIAL CIRCLE LAKE CITY, FL 32025	30' WIDE X 20' HIGH ENCLOSED STRUCTURE

DESIGN DATE:	12/14/2023	PAGE :	1
REVISION 1:	DATE		
REVISION 2:	DATE		
SCALE:	NTS		

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4161 TAMAMI TRAIL, UNIT 101
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122771-30-E
CA CERT.#30782



PROJECT NO. 2322771-30-E

Orders@FLEng.com

41) 391-5980

4161 TAMAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952

CA CERT. #30782

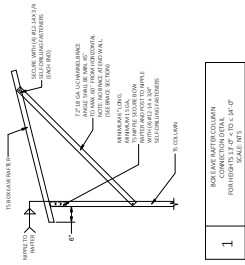
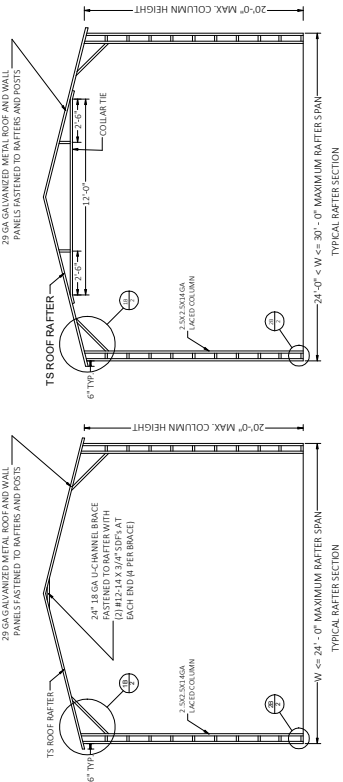
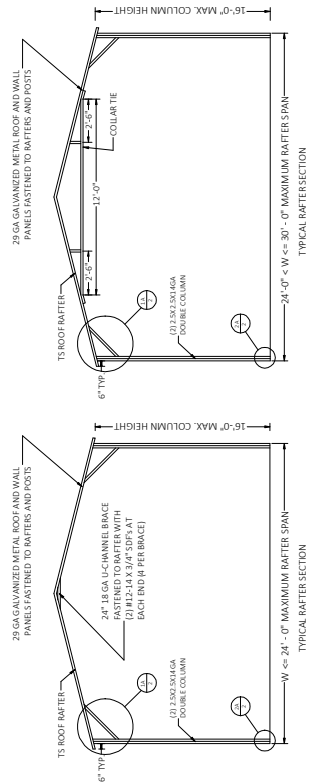
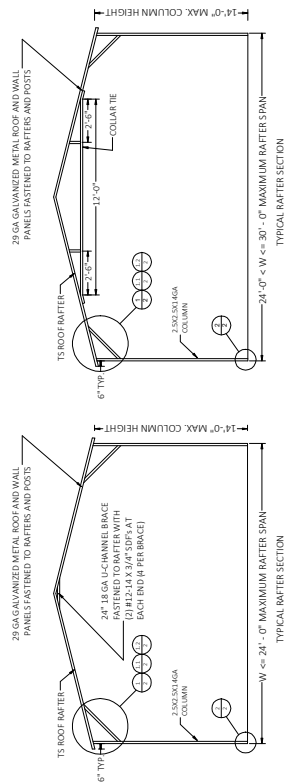
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STATE OF FLORIDA
Professional Engineer
No. 81040
Richard E. Walker
Digitally signed by Richard E. Walker
DN: cn=Richard E. Walker, o=SEAL, ou=STATE OF FLORIDA, email=Richard.E.Walker@floridaregulation.com, c=US

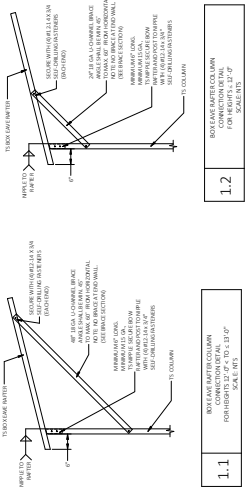
FLORIDA ENGINEERING LLC
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PROJECT NO. 2322771-30-E

CONTRACTOR:
TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE,
LAKE CITY, FL 32025
PROJECT DESCRIPTION:
30" WIDE X 20" HIGH
ENCLOSED STRUCTURE

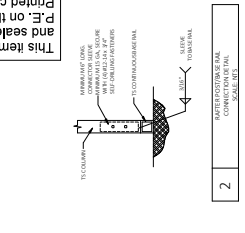
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REVISION 1: DATE
REVISION 2: DATE
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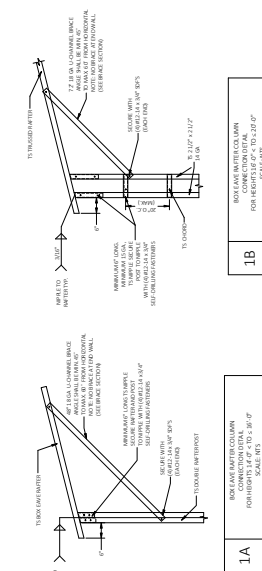
1 BOX END RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < H <= 14'-0" SCALE: NTS



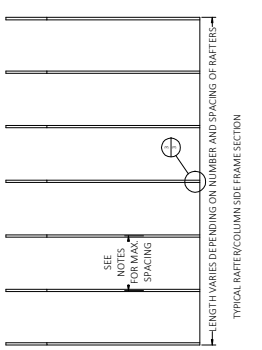
1.1 BOX END RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < H <= 14'-0" SCALE: NTS



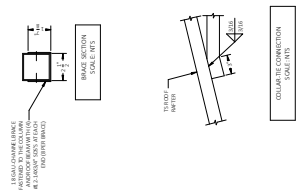
1.2 BOX END RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < H <= 14'-0" SCALE: NTS



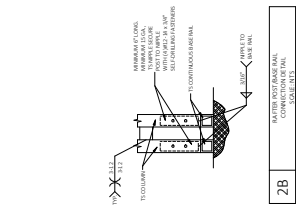
1A BOX END RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < H <= 14'-0" SCALE: NTS



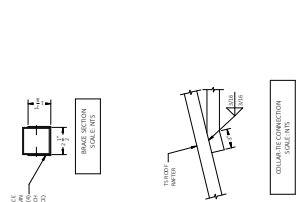
1B BOX END RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < H <= 14'-0" SCALE: NTS



2A BOX END RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < H <= 14'-0" SCALE: NTS



2B BOX END RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < H <= 14'-0" SCALE: NTS



2 BOX END RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < H <= 14'-0" SCALE: NTS

TYPICAL RAFTER COLUMN SIDE FRAME SECTION
LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS

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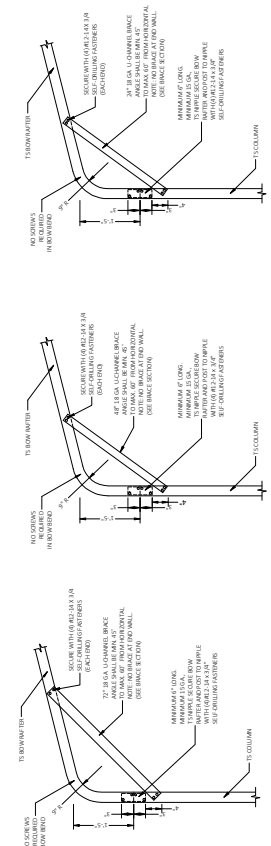
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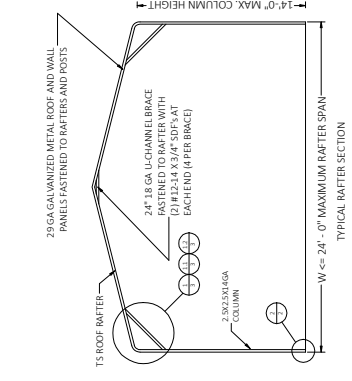
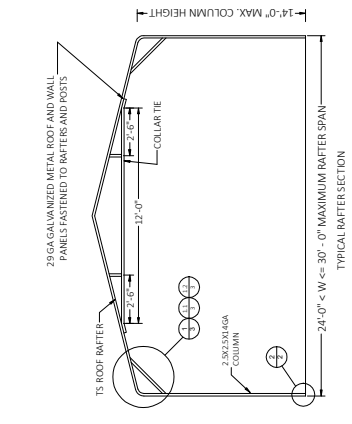
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TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE,
LAKE CITY, FL 32025
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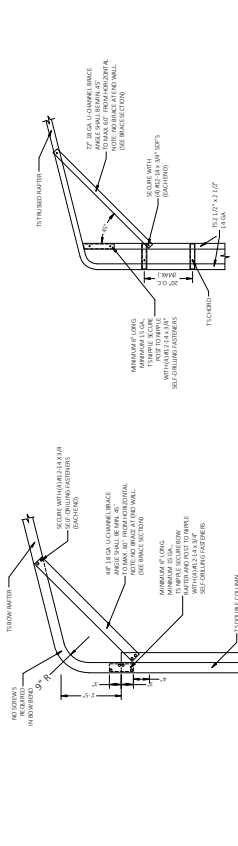


1 BOW EAVE AFTER COLUMN
FOR HEIGHTS 21'-0" TO 24'-0"
SCALE: NTS

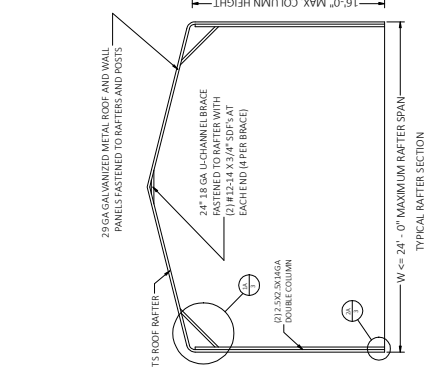
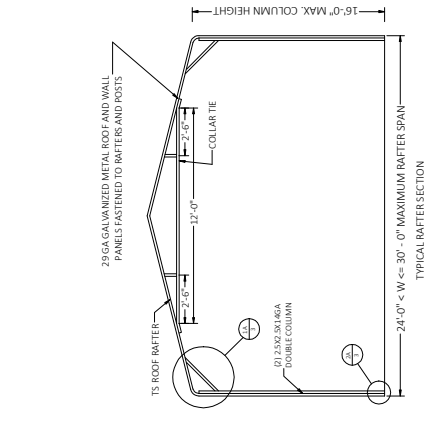


1.1 BOW EAVE AFTER COLUMN
FOR HEIGHTS 21'-0" TO 24'-0"
SCALE: NTS

1.2 BOW EAVE AFTER COLUMN
FOR HEIGHTS 21'-0" TO 24'-0"
SCALE: NTS

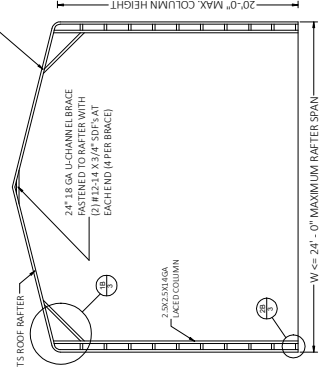
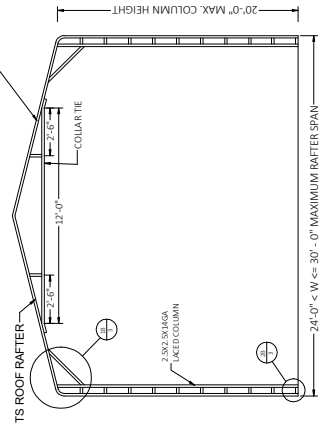
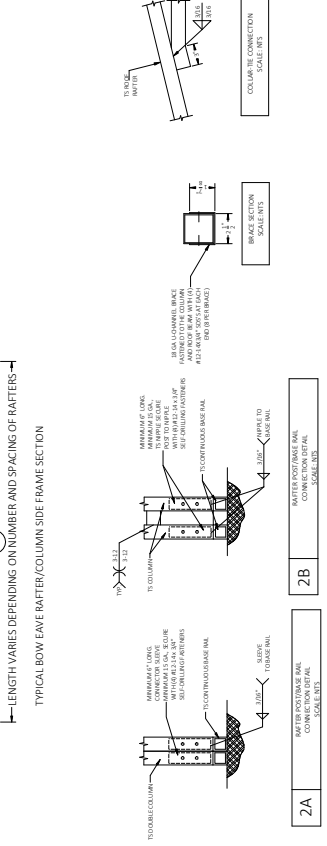
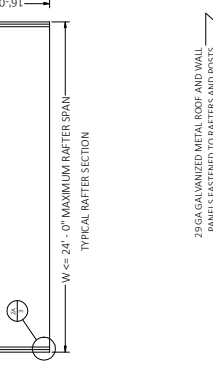
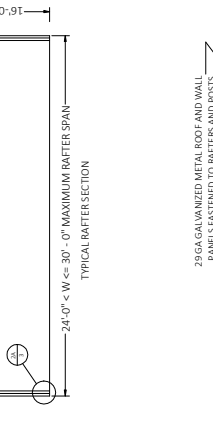
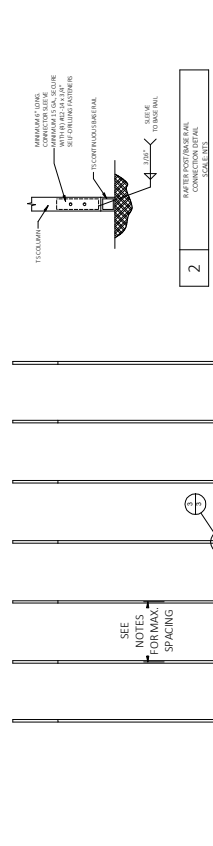


2 BOW EAVE AFTER COLUMN
FOR HEIGHTS 25'-0" TO 30'-0"
SCALE: NTS



2A BOW EAVE AFTER COLUMN
FOR HEIGHTS 25'-0" TO 30'-0"
SCALE: NTS

2B BOW EAVE AFTER COLUMN
FOR HEIGHTS 25'-0" TO 30'-0"
SCALE: NTS

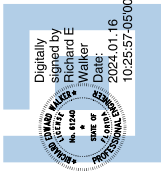


4 TYPICAL BOW EAVE RAFTER/COLUMN SIDE FRAME SECTION
LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS
SCALE: NTS

4A TYPICAL BOW EAVE RAFTER/COLUMN SIDE FRAME SECTION
LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS
SCALE: NTS

4B TYPICAL BOW EAVE RAFTER/COLUMN SIDE FRAME SECTION
LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS
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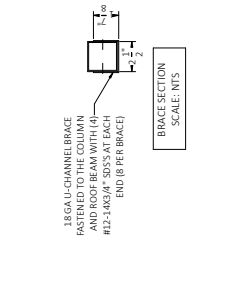
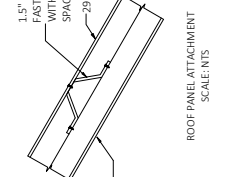
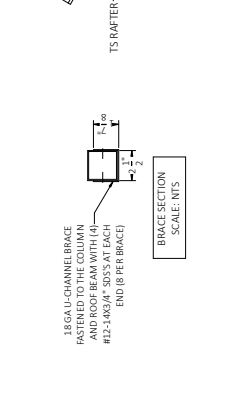
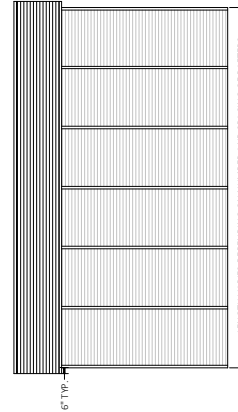
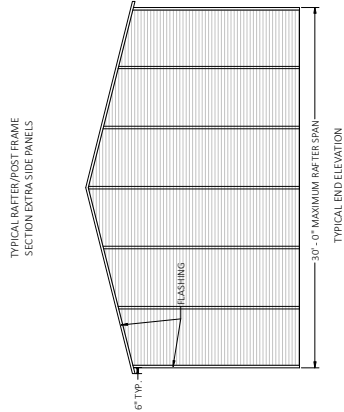
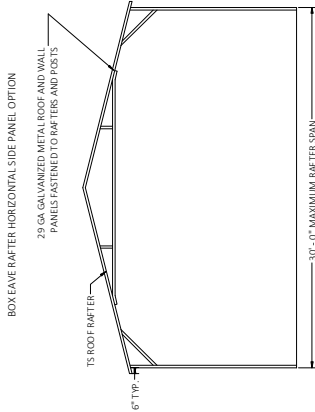
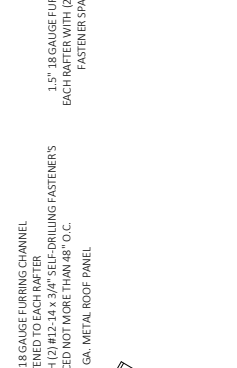
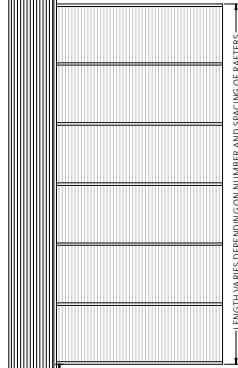
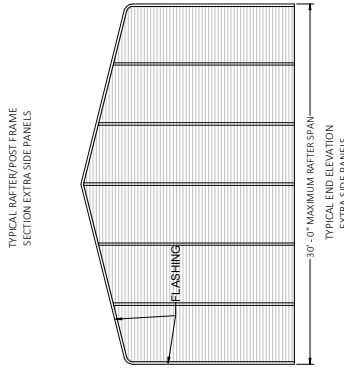
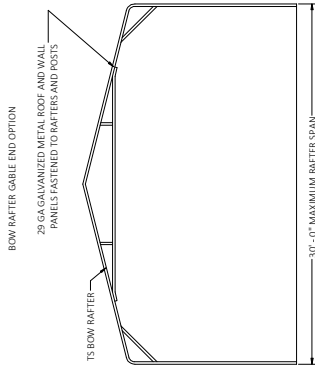
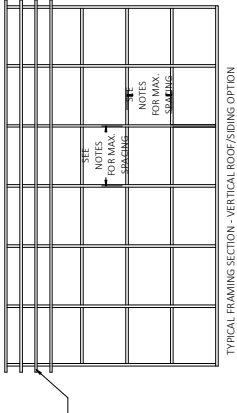
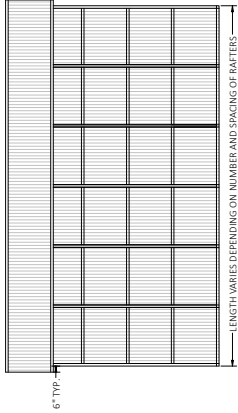
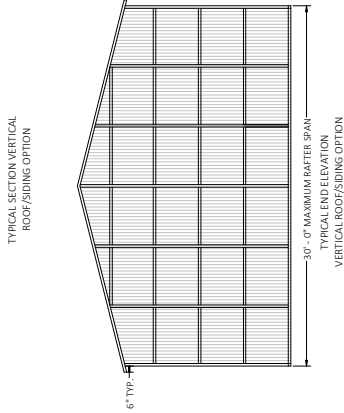
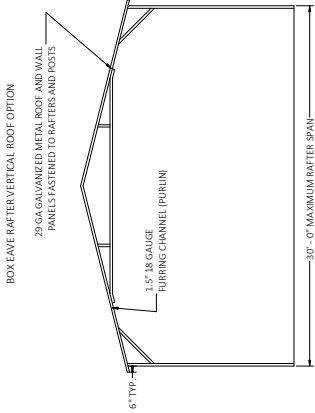
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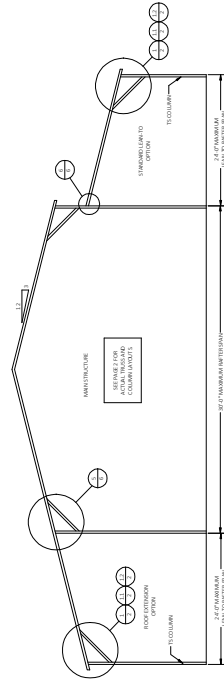
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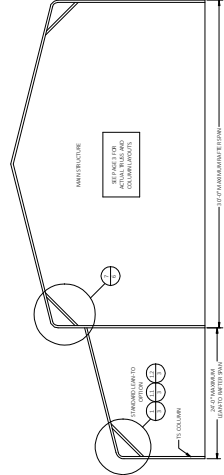
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BOX LEAVE RAFTER LEAN-TO OPTIONS

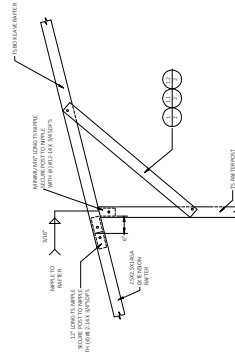


BOW RAFTER LEAN-TO OPTIONS



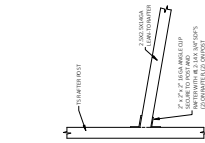
TYPICAL BOX LEAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

TYPICAL BOW RAFTER LEAN-TO OPTIONS FRAMING SECTION



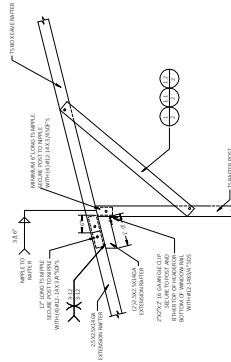
5A

SIZE: SEE EXTENSION MATERIAL CONNECTION DETAIL.
FOR LEAN-TO RAFTER SPAN $W \leq 12'$ OR $W > 12'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.
FOR LEAN-TO RAFTER SPAN $W \leq 12'$ OR $W > 12'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.
FOR LEAN-TO RAFTER SPAN $W \leq 12'$ OR $W > 12'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.



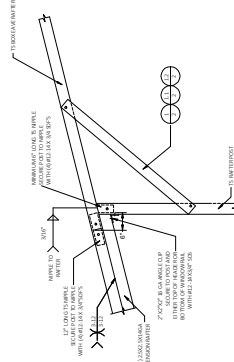
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SIZE: SEE EXTENSION MATERIAL CONNECTION DETAIL.
FOR LEAN-TO RAFTER SPAN $W \leq 12'$ OR $W > 12'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2 OR 1.1.3.
FOR LEAN-TO RAFTER SPAN $W \leq 12'$ OR $W > 12'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2 OR 1.1.3.
FOR LEAN-TO RAFTER SPAN $W \leq 12'$ OR $W > 12'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2 OR 1.1.3.



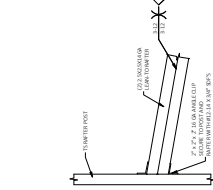
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SIZE: SEE EXTENSION MATERIAL CONNECTION DETAIL.
FOR LEAN-TO RAFTER SPAN $W \leq 12'$ OR $W > 12'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.
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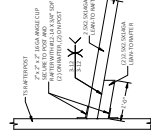
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SIZE: SEE EXTENSION MATERIAL CONNECTION DETAIL.
FOR LEAN-TO RAFTER SPAN $W \leq 12'$ OR $W > 12'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.
FOR LEAN-TO RAFTER SPAN $W \leq 12'$ OR $W > 12'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.
FOR LEAN-TO RAFTER SPAN $W \leq 12'$ OR $W > 12'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2.



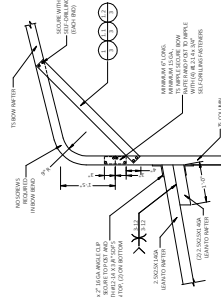
6B

SIZE: SEE EXTENSION MATERIAL CONNECTION DETAIL.
FOR LEAN-TO RAFTER SPAN $W \leq 12'$ OR $W > 12'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2 OR 1.1.3.
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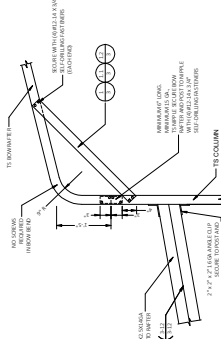
6C

SIZE: SEE EXTENSION MATERIAL CONNECTION DETAIL.
FOR LEAN-TO RAFTER SPAN $W \leq 12'$ OR $W > 12'$, IF THE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 1.1.2 OR 1.1.3.
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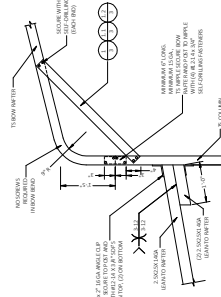
7A

SIZE: SEE EXTENSION MATERIAL CONNECTION DETAIL.
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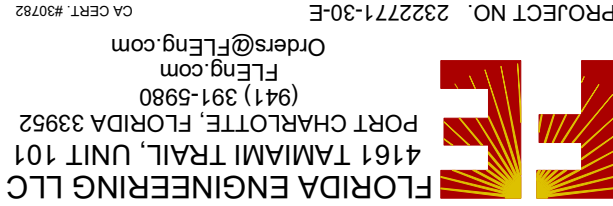
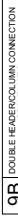
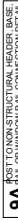
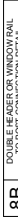
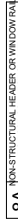
7B

SIZE: SEE EXTENSION MATERIAL CONNECTION DETAIL.
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7C

SIZE: SEE EXTENSION MATERIAL CONNECTION DETAIL.
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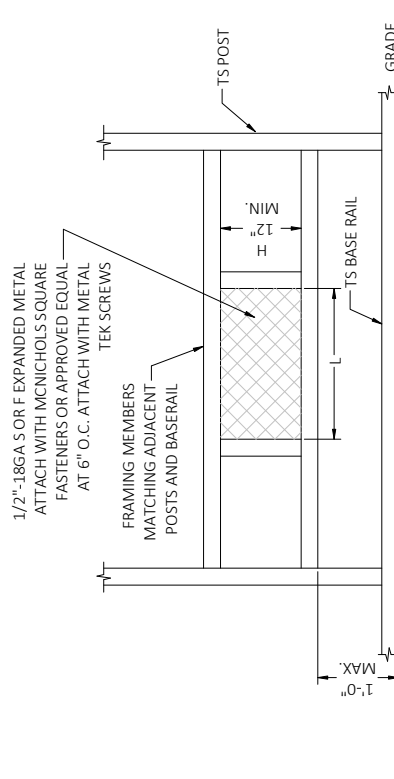


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REVISION 1:	DATE	
REVISION 2:	DATE	
SCALE:	NTS	

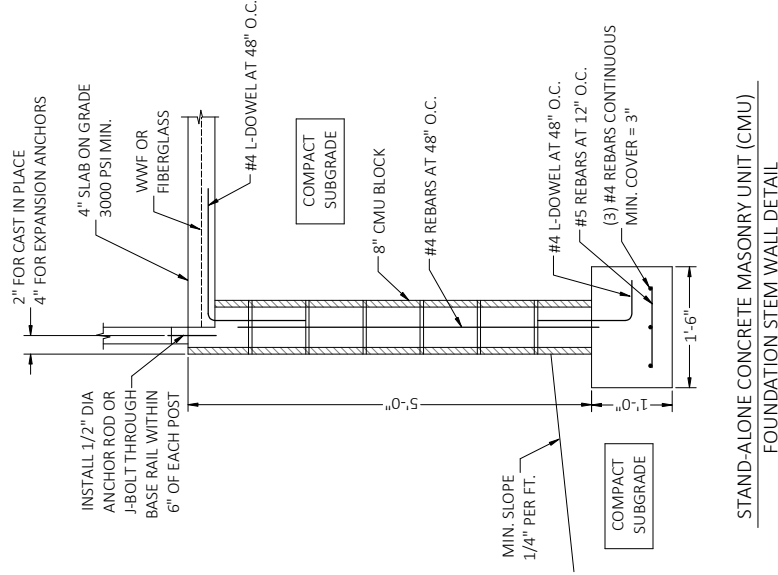
WINDOW INSTALLATION DETAILS

This item has been digitally signed and sealed by Richard E. Walker. Printed copies of this document are not considered signed and sealed on the date adjacent to the seal. Many electronic copies, and the signature must be verified on

Digitally signed by Richard Walker Date: 2024.01.10 10:25:51



- NOTES:
1. MINIMUM VENT SPACE REQUIRED = 1 SQ. IN. OF OPEN VENT AREA PER SQ. FT. OF BUILDING AREA.
 2. PROVIDE A MINIMUM OF TWO OPENINGS ON DIFFERENT SIDES OF EACH ENCLOSED BUILDING.
 3. APPLY A 1.3 FACTOR WHEN CALCULATING TOTAL OPEN AREA WHEN USING 1/2"-18GA S OR F EXPANDED METAL.
 4. TOTAL OPEN AREA OF VENT = L X H (MIN. 12").
 5. FLOOD VENT DETAIL COMPLIES WITH FEMA/NFIP.
 6. PREFABRICATED FLOOD VENTS MEETING THE REQUIREMENTS OF FEMA/NFIP MAY BE USED.

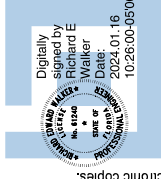


TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE,
LAKE CITY, FL 32025

CONTRACTOR:

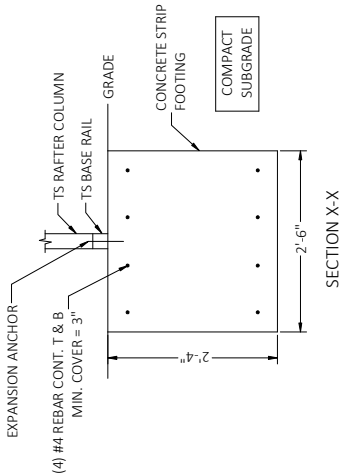
DESIGN DATE:	12/14/2023	PAGE :	8
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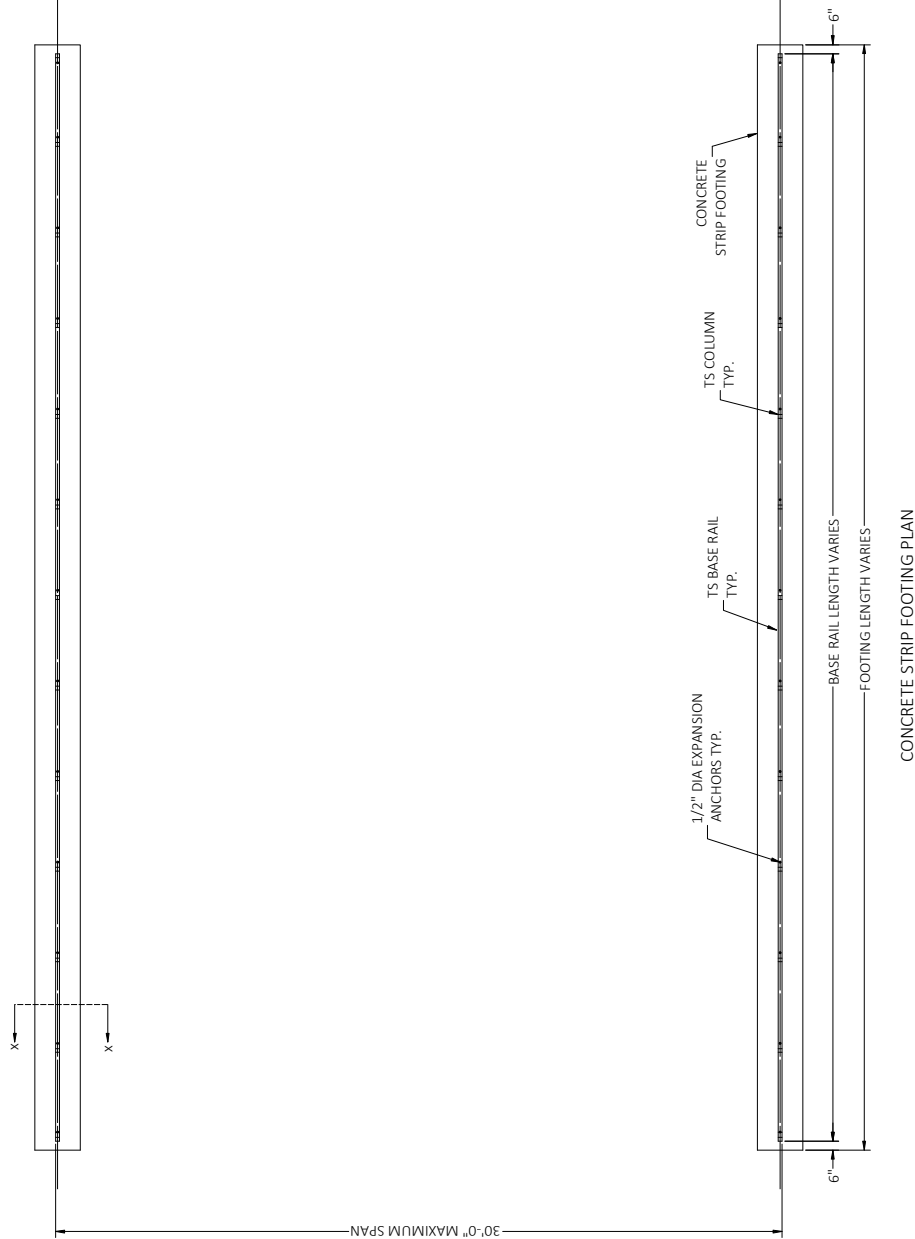


GENERAL NOTES:
CONCRETE MONOLITHIC SLAB DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 1500 PSF.

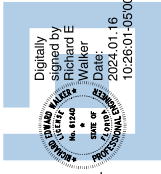
- CONCRETE:
MINIMUM 28-DAY SPECIFIED COMPRESSIVE STRENGTH = 3000 PSI
- REINFORCING STEEL:
1. TURNDOWN REINFORCING STEEL = ASTM A615 GRADE 60
2. SLAB REINFORCEMENT = WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
3. REINFORCING STEEL COVER = 3" WHERE CASE AGAINST AND PERMANENTLY EXPOSED TO SOIL OR WATER, 1.5" EVERYWHERE ELSE.
4. REINFORCEMENT IS BENT COLD.
5. MINIMUM INSIDE DIAMETER OF BEND = (6) BAR DIAMETERS
6. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



OPTIONAL CONCRETE STRIP FOOTING



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FLORIDA ENGINEERING LLC

4161 TAMAMI TRAIL, UNIT 101

PORT CHARLOTTE, FLORIDA 33952

(941) 391-5980

FLeng.com

Orders@FLeng.com

PROJECT NO. 2322771-30-E

CA CERT. #30782

TUBULAR BUILDING SYSTEMS

631 SE INDUSTRIAL CIRCLE,

LAKE CITY, FL 32025

CONTRACTOR:

PROJECT DESCRIPTION:

30" WIDE X 20" HIGH

ENCLOSED STRUCTURE

DESIGN DATE:	12/14/2023
REVISION 1:	DATE
REVISION 2:	DATE
SCALE:	NTS