#### APPLICABLE CODES, REGULATIONS, & STANDARDS

- A. THE 2023 FLORIDA BUILDING CODE, 8TH EDITION B ASCE/SEL 7 22 MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER
- STRUCTURES C. ACI 318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE D AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
- E AWS D1 1 STRUCTURAL WELDING
- 1 THESE PLANS BELONG EXCLUSIVELY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM (MWFRS) COMPONENTS AND CLADDING (C&C), AND BASE RAIL ANCHORAGE OTHER DESIGN ISSUES, INCLUDING BUT NOT LIMITED TO PROPERTY SET BACKS, ELECTRICAL, PLUMBING INGRESS/EGRESS, FINISH FLOOR SLOPES AND ELEVATIONS, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE LIABILITY OF OTHERS.
- 2 THESE STRUCTURES ARE ENGINEERED AS CAPABLE OF SUPPORTING DEAD LOAD OF THE STRUCTURE AND LIVE AND WIND LOADS. UPGRADES NOT SPECIFICALLY ADDRESSED HEREIN SUCH AS WINDOWS, DOORS, OR ANOTHER COMPONENT NOT LISTED IN THE FLORIDA BUILDING CODE APROVED PRODUCT LIST AND NOT PROVIDED AND INSTALLED BY TUBULAR BUILDING SYSTEMS, WHICH CAUSE ADDITIONAL LOADS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK FLORIDA ENGINEERING LLC, SHALL NOT BE RESPONSIBLE FOR FAILURE OR STRUCTURAL DAMAGE DUE TO THE EXTRA LOAD
- 3 LOW ULTIMATE WIND SPEED 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH) MAXIMUM RAFTER/POST AND END POST SPACING = 5.0 FEET
- 4 HIGH ULTIMATE WIND SPEED 141 TO 170 MPH (NOMINAL WIND SPEED 109 TO 132 MPH) MAXIMUM RAFTER/POST AND END POST SPACING = 4.0
- 5 ALL STEEL TUBING SHALL BE 50 KSI GALVANIZED STEEL. ALL FASTENERS SHALL BE ZINC COATED HARDWARE
- 6 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2 x 2 1/2 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS, 29 GAUGE METAL PANELS SHALL BE FASTENED TO 18 GAUGE HAT CHANNELS (UNLESS OTHERWISE NOTED)
- 7 FASTENERS CONSIST OF #12 14 x 3/4 SELF DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14° (3 12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY
- 8 AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS, INTERIOR = 9 OR END 6 (MAX )
- 9 WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE

SOIL SITE CLASS = D RISK CATEGORY I/II/III R 3.25 le 10 Sds 0.087 g V = CsW

Sdi 0.084 g

10. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6 OF EACH RAFTER COLUMN ALONG SIDES.

11 GROUND ANCHOR (SOIL NAILS) CONSIST OF #5 REBAR W/ WELDED NUT 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

- 12 MIN LAP REQUIREMENT FOR REBAR IN FOOTER IS 25
- 13 SOIL TO BE COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY AT
- 14 PRIOR TO PLACING CONCRETE TREAT THE ENTIRE SUBSURFACE AREA FOR TERMITES IN COMPLIANCE WITH THE FBC. FOR RISK CATEGORY II, III & IV
- 15 ALL OPEN AREAS OF CONCRETE OUTSIDE OF THE PROPOSED STRUCTURE SHALL BE DESIGNED TO SLOPE AWAY FROM THE STRUCTURE
- 16 A LANDING OF MIN 36 WIDTH IN THE DIRECTION OF TRAVEL SHALL BE PROVIDED AT THE EXTERIOR DOORS SLOPE OF LANDING NOT TO EXCEED 1/4 1 LANDING LEVEL NOT TO BE LOWER THAN 1 1/2 (FOR EGRESS DOORS) & 7 3/4 (FOR OTHER EXTERIOR DOORS) BELOW THE TOP OF THRESHOLD

SHEET NO	DRAWING INDEX
S/01	GENERAL NOTES
S/02	PLAN/ ELEVATIONS
S/03	FOUNDATION PLAN
S/04	DETAILS

THE ENGINEERING ON THESE PLANS IS SITE SPECIFIC FOR (1) STRUCTURE ONLY AT THE PROVIDED ADDRESS(ES)

PROPOSED METAL BUILDING FOUNDATION & SHELL STRUCTURAL DESIGN ONLY ALL OTHER REQUIRED PERMITS TO BUILD OUT TO A HABITABLE LIVING SPACE ARE TO BE BY OTHERS/ PER SEPERATE CERTIFICATE INCLUDING BUT NOT LIMITED TO ELECTRICAL, PLUMBING, ENERGY CALCS. ETC. FOR MORE INFORMATION VISIT https://flengineeringlic.com/order/ OR SCAN QR CODE.



DESIGN DATA	
DESIGN CRITERIA	ASCE/SEI 7
RISK CATEGORY	ĮĮ.
OCCUPANCY CLASSIFICATION	R3
CONSTRUCTION TYPE	II-B
DEFLECTION LIMIT	L/240
ULTIMATE DESIGN WIND SPEED (MPH) VULT	120
NOMINAL DESIGN WIND SPEED (MPH) VASD	93
EXPOSURE CATEGORY	С
MEAN BUILDING HEIGHT (FT)	12.88
MINIMUM BUILDING PLAN DIMENSION (FT)	30.00
END ZONE DIMENSION (FT) a	3,00
ROOF STYLE	GABLE
ROOF PITCH (IN 12)	3
OCCUPANCY CLASSIFICATION	PARTIALLY ENCLOSED
DEAD LOAD (DUE TO SELF-WEIGHT)	4.3 PSF
ROOF LIVE LOAD	12 PSF
GROUND SNOW LOAD	3 PSF
ADJUSTED C & C WIND PRESSUI	RES (ASD) (PSF)
EFFECTIVE WIND AREA FOR ROOF (SQ. FT)	75.00
ZONE 1 (POSITIVE)	NA
ZONE 1 (NEGATIVE)	NA
ZONE 1 (OVERHANG)	NA
ZONE 1 (POSITIVE)	15.2

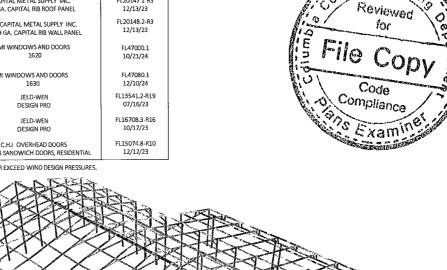
ADJUSTED C & C WIND PRESSURES (ASD) (PSF)				
EFFECTIVE WIND AREA FOR ROOF (SQ. FT)	75.00			
ZONE 1 (POSITIVE)	NA NA			
ZONE 1 (NEGATIVE)	NA NA			
ZONE 1 (OVERHANG)	NA.			
ZONE 1 (POSITIVE)	15 2			
ZONE 1 (NEGATIVE)	26,6			
ZONE 1 (OVERHANG)	-40.1			
ZONE 2 (POSITIVE)	15 2			
ZONE 2 (NEGATIVE)	-33,8			
ZONE 2 (OVERHANG)	-47.2			
ZONE 3 (POSITIVE)	15.2			
ZONE 3 (NEGATIVE)	-41.2			
ZONE 3 (OVERHANG)	-54.8			
EFFECTIVE WIND AREA FOR WALLS (SQ. FT)	44.00			
ZONE 4 (POSITIVE)	23.0			
ZONE 4 (NEGATIVE)	-24.6			
ZONE 5 (POSITIVE)	23.0			
ZONE 5 (NEGATIVE)	-27 6			

CONTRACTOR TO PROVIDE BUILDING CODE APPROVED PRODUCTS TO MEET OR EXCEED THE DESIGN PRESSURES AS TABULATED

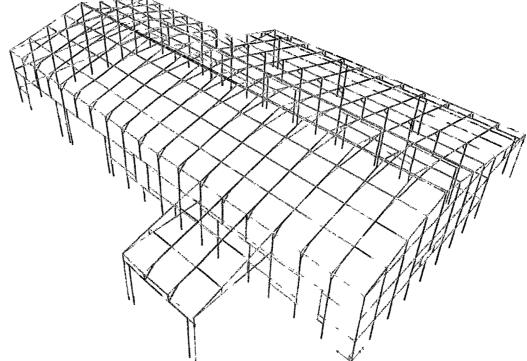
ADJUSTED C & C WIND				
PRESSURES (ASD) (PSF)				
FOR OPENINGS				
SWING	DOOR			
EFFECTIVE WIND AREA	(SQ. FT)	20.00		
ZONE 4 (POSITIV	E)	24,0		
ZONE 4 (NEGATI\	/E)	-25.6		
ZONE 5 (POSITIV	E)	24.0		
ZONE 5 (NEGATIV	/E)	29.5		
ROLL-UP DOOR				
EFFECTIVE WIND AREA	(SQ, FT)	70.00		
ZONE 4 (POSITIV	E)	22.5		
ZONE 4 (NEGATI)	/E)	-24.0		
ZONE 5 (POSITIV	E)	22.5		
ZONE 5 (NEGATIV	/E)	-26.5		
WINDOW				
EFFECTIVE WIND AREA	(SQ, FT)	4.50		
ZONE 4 (POSITIV	'E)	24.8		
ZONE 4 (NEGATIV	/E) =	-26,5		
ZONE 5 (POSITIV	'E)	24.8		
ZONE 5 (NEGATIV	/E)	-31.3		

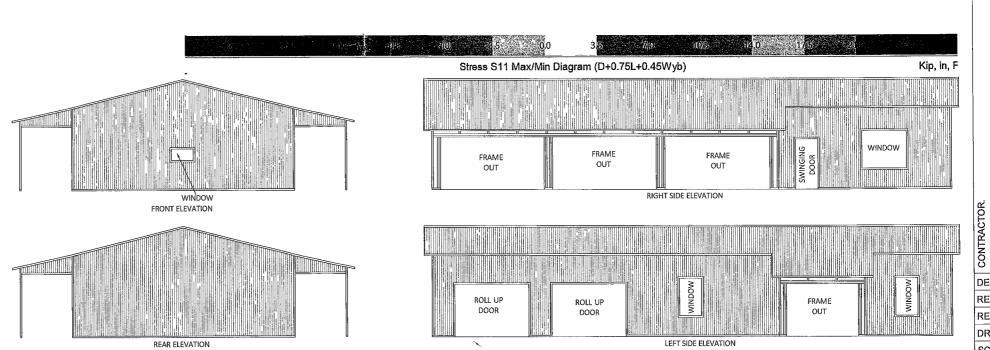
PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE
STRUCTURAL COMPONENTS	ROOF DECK	CAPITAL METAL SUPPLY INC. 29 GA, CAPITAL RIB ROOF PANEL	FL20147 2 R3 12/13/23
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAPITAL METAL SUPPLY INC. 29 GA, CAPITAL RIB WALL PANEL	FL20148.2-R3 12/13/23
WINDOWS	SINGLE HUNG	MI WINDOWS AND DOORS 1620	FL47000.1 10/21/24
WINDOWS	SINGLE HUNG	MI WINDOWS AND DOORS 1630	FL47080.1 12/10/24
EXTERIOR DOORS	SWINGING	JELD-WEN DESIGN PRO	FL13541.2-R19 07/16/23
EXTERIOR DOORS	SWINGING	JELD-WEN DESIGN PRO	FL16708.3-R16 10/17/23
EXTERIOR DOORS	ROLL-UP	C.H.I OVERHEAD DOORS 15074.08 SANDWICH DOORS, RESIDENTIAL	FL15074.8-R10 12/12/23

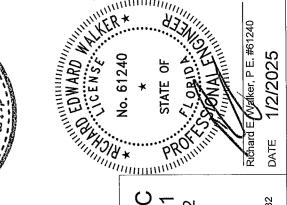
CTP CONTRACTOR TO PROVIDE APPROVED PRODUCTS THAT MEET OR EXCEED WIND DESIGN PRESSURES.



NOTA BAILD







9 ENGINEERING

CHARLOTTE, FLORIDA (941) 391-5980 FLEng.c Orders@FLE

TAMIAMI 4161 PORT





SYSTEMS

BUILDING

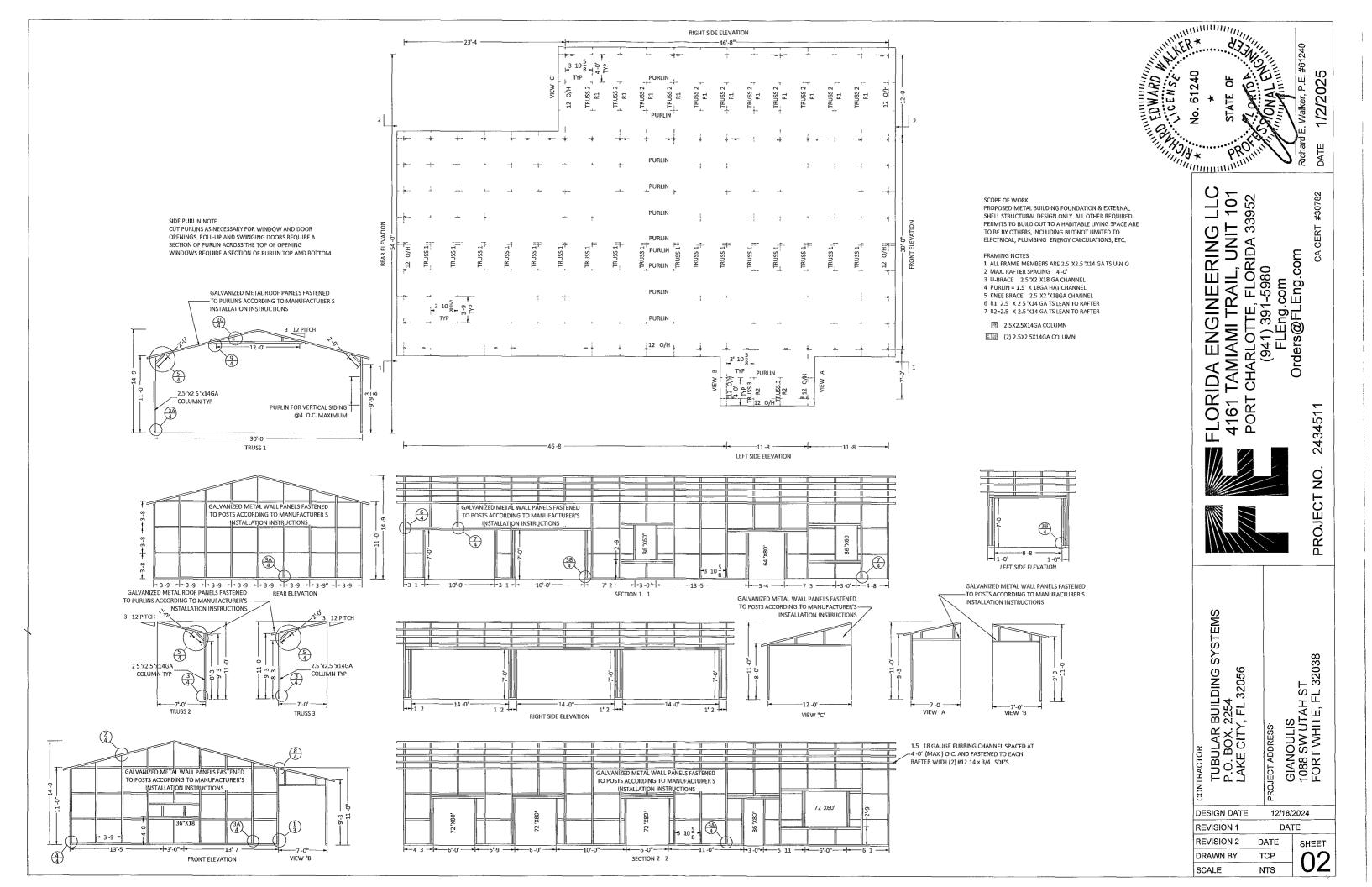
Ö.

**PROJECT** 

GIANOULIS 1088 SW UTAH ST FORT WHITE, FL 32038 32056

TUBULAR I P.O. BOX. 2 LAKE CITY 12/18/2024 DESIGN DATE DATE

**REVISION 1 REVISION 2** DATE SHEET TCP DRAWN BY SCALE. NTS



# GENERAL NOTES

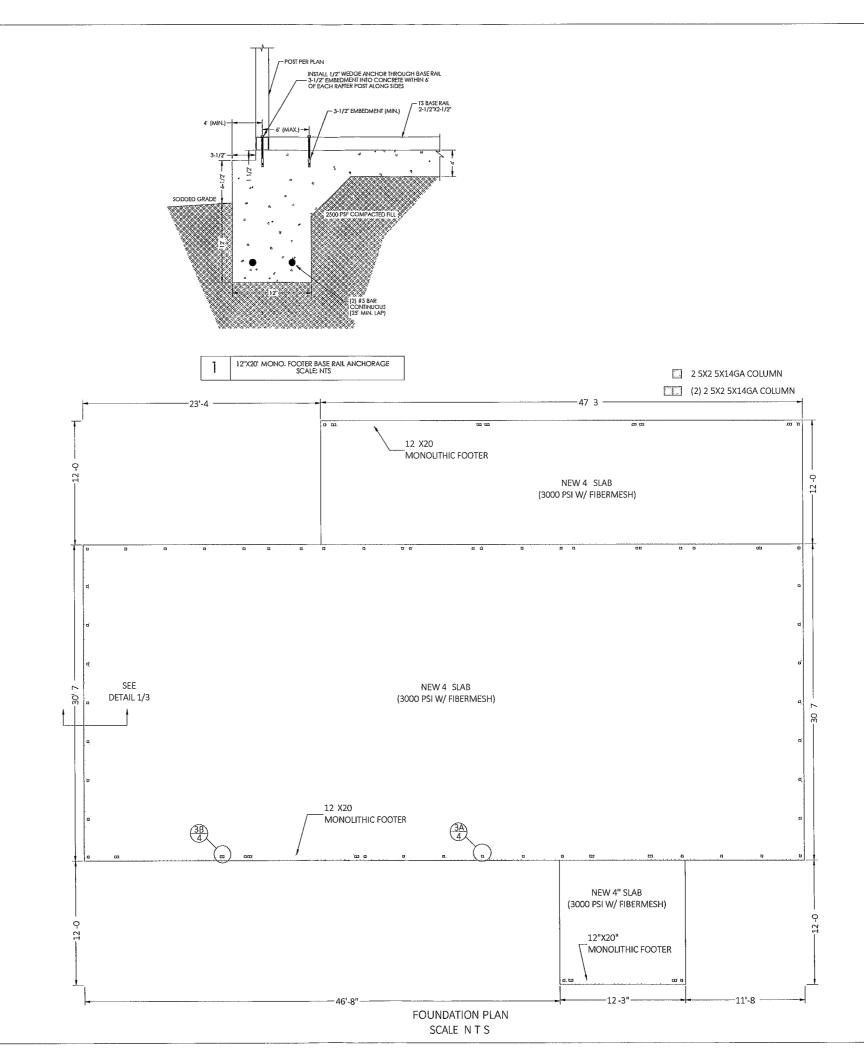
## CONCRETE

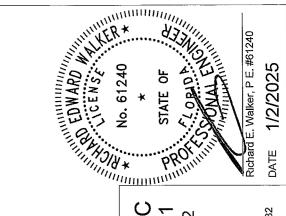
- 1 CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS
- 2 CONCRETE MONOLITHIC SLAB DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 2500 PSF
- 3 ALL OPEN AREAS OF CONCRETE OUTSIDE OF THE PROPOSED STRUCTURE SHALL BE DESIGNED TO SLOPE AWAY FROM THE STRUCTURE
- 4 WHERE CONCRETE SPECIFICATIONS ARE REQUIRED, BY ONE OR MORE REGULATORY AGENCY, THE FOLLOWING SPECIFICATIONS ARE APPLICABLE
- a CONCRETE SHALL CONFORM TO ASTM C94 FOR THE FOLLOWING COMPONENTS
- i PORTLAND CEMENT TYPE 1 ASTM C 150
- ii AGGREGATES LARGE AGGREGATE 3/4 MAX ASTM C 33
- III AIR ENTRAINING +/- 1 % ASTM C 260
- iv WATER REDUCING AGENT ASTM C 494
- v CLEAN POTABLE WATER
- VI OTHER ADMIXTURES NOT PERMITTED
- b CONCRETE SLUMP AT DISCHARGE CHUTE NOT LESS THAN 3" OR
- MORE THAN 5" WATER ADDED AFTER BATCHING IS NOT PERMITTED
- c PREPARE & PLACE CONCRETE PER AMERICAN CONCRETE INSTITUTE MANUAL OF STANDARD PRACTICE, PART 1, 2, & 3 INCLUDING HOT WEATHER RECOMMENDATIONS
- d MOIST CURE OR POLYETHYLENE CURING PERMITTED
- e PRIOR TO PLACING CONCRETE, TREAT THE ENTIRE SUBSURFACE AREA FOR TERMITES IN COMPLIANCE WITH THE BUILDING CODE (FOR RISK CATEGORY II, III, & IV STRUCTURES ONLY)
- f CONCRETE SLAB SHALL BE PLACED OVER A MIN 6 MIL POLYETHYLENE VAPOR BARRIER (SLAB ONLY)
- 5 CONTROL JOINTS SHALL BE PROVIDED AT EVERY 12' O C OR 18' O C FOR 4" THICK OR 6" THICK CONCRETE SLAB RESPECTIVELY

- 1 THE REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
- 2 REINFORCEMENT MAY BE BENT IN THE FIELD OR SHOP AS LONG AS
- a IT IS BENT COLD,
- b REINFRCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE
- c THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS
- 3 FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318 3 INCHES WHERE THE CONCRETE IS POURED AGAINST AND TEMPORARY IN CONTACT WITH THE EARTH OR UNPROTECTED FROM THE EARTH OR WEATHER, OTHERWISE 1-1/2 INCHES

## FROST PROTECTION

1 FOUNDATION SHALL BE PROTECTED AGAINST FROST USING RIGID FOAM INSULATION (EPS OR EQUIVALENT) FOR NO FROST PROTECTION OPTION, COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH BASED ON FROST LINE





FLORIDA ENGINEERING LLC
4161 TAMIAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
Orders@FLEng.com

PROJECT NO.

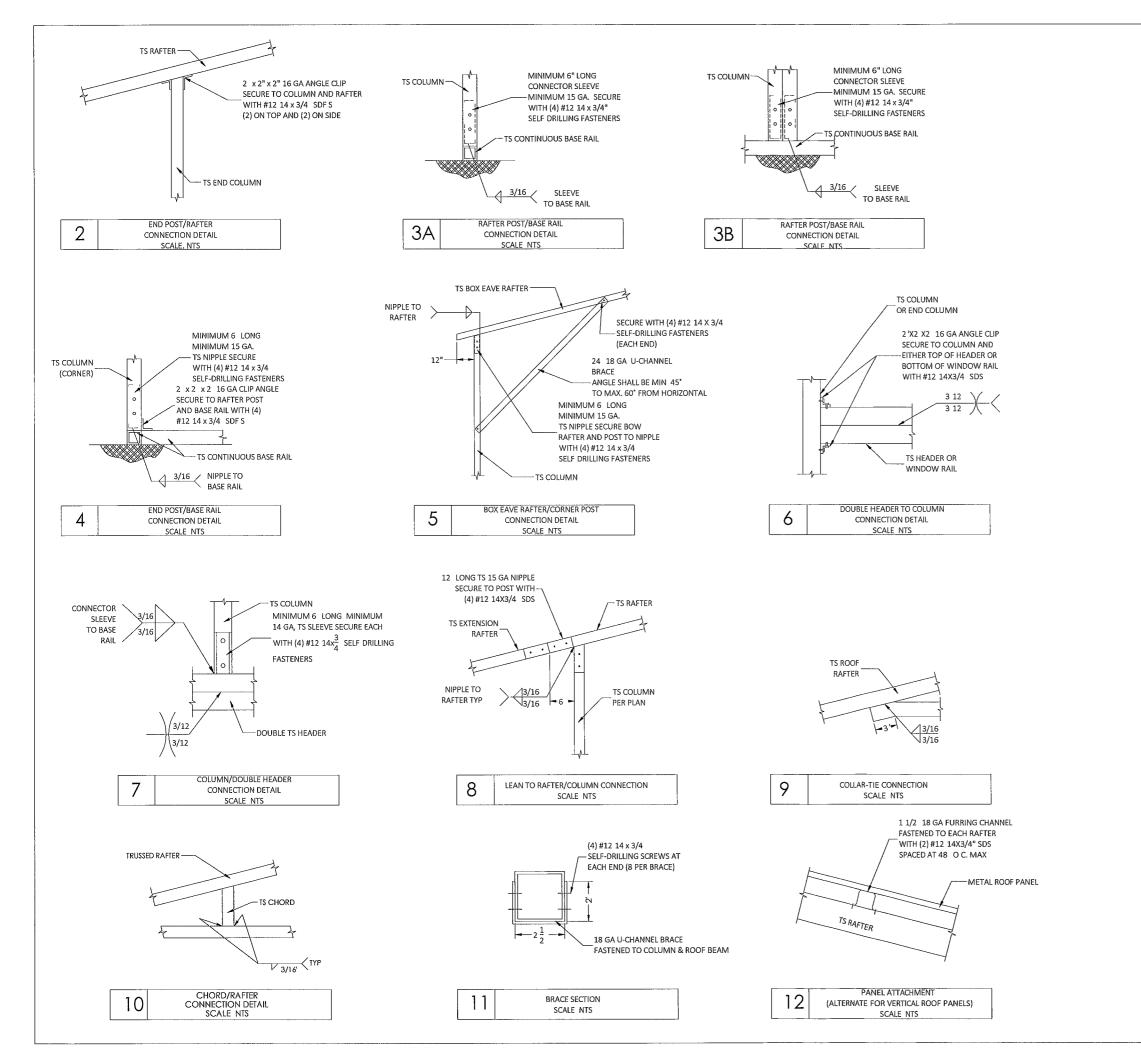
TUBULAR BUILDING SYSTEMS P.O. BOX. 2254 LAKE CITY, FL 32056 GIANOULIS 1088 SW UTAH ST FORT WHITE, FL 3

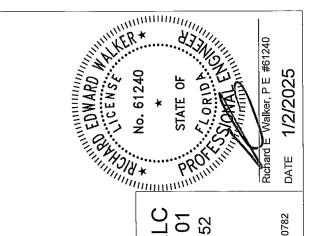
DESIGN DATE 12/18/2024 **REVISION 1** DATE REVISION 2 DATE SHEET

DRAWN BY

SCALE

TCP NTS







TUBULAR BUILDING SYSTEMS
P.O. BOX. 2254
LAKE CITY, FL 32056
PROJECT ADDRESS.
GIANOULIS
1088 SW UTAH ST
FORT WHITE, FL 32038

2434511

PROJECT NO.

DRAWN BY TCP
SCALE NTS