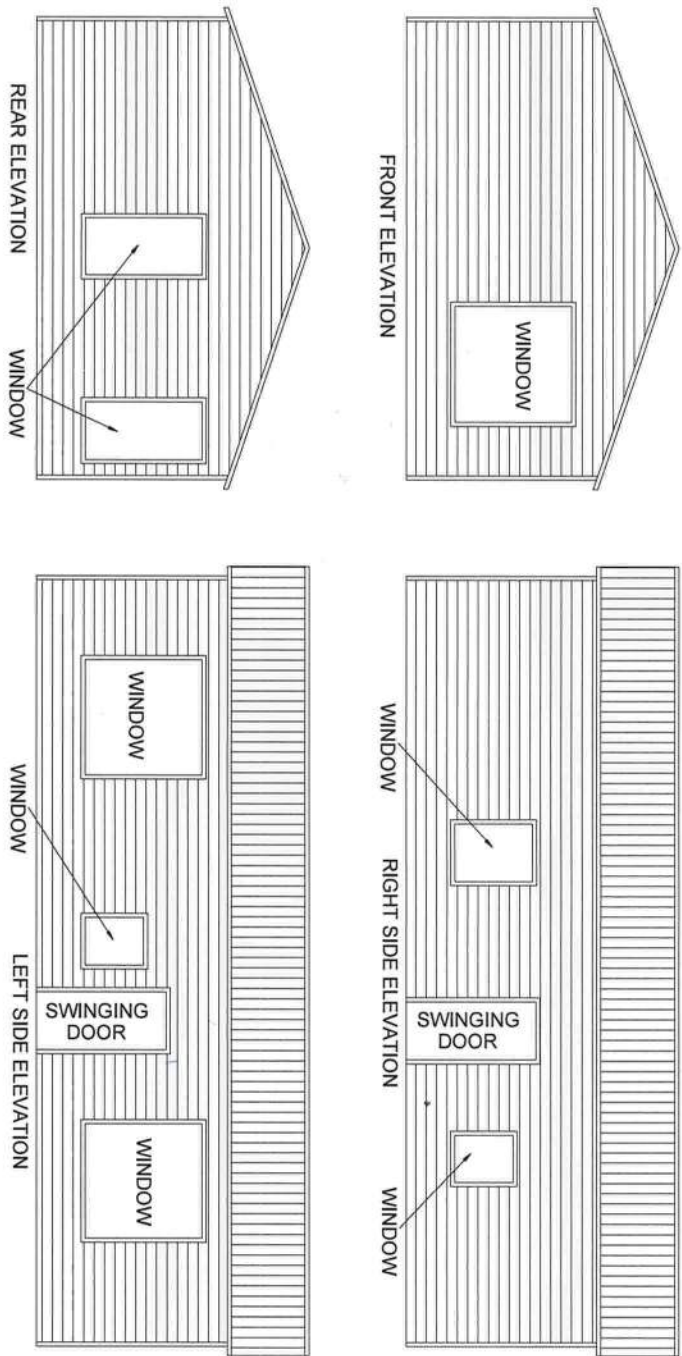




GENERAL NOTES

0. APPLICABLE CODES, REGULATIONS, & STANDARDS
A. THE 2020 FLORIDA BUILDING CODE, 7TH EDITION
B. ASCE 7-16
C. ACI 318 CONCRETE REFERENCE MANUAL
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 (RISK CATEGORY 2) 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 APPROVED 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 FEET.
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 II/III
R = 3.25 Ie = 1.0
Sds = 0.087 g V = CSW
Sd1 = 0.084 g

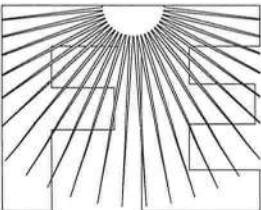
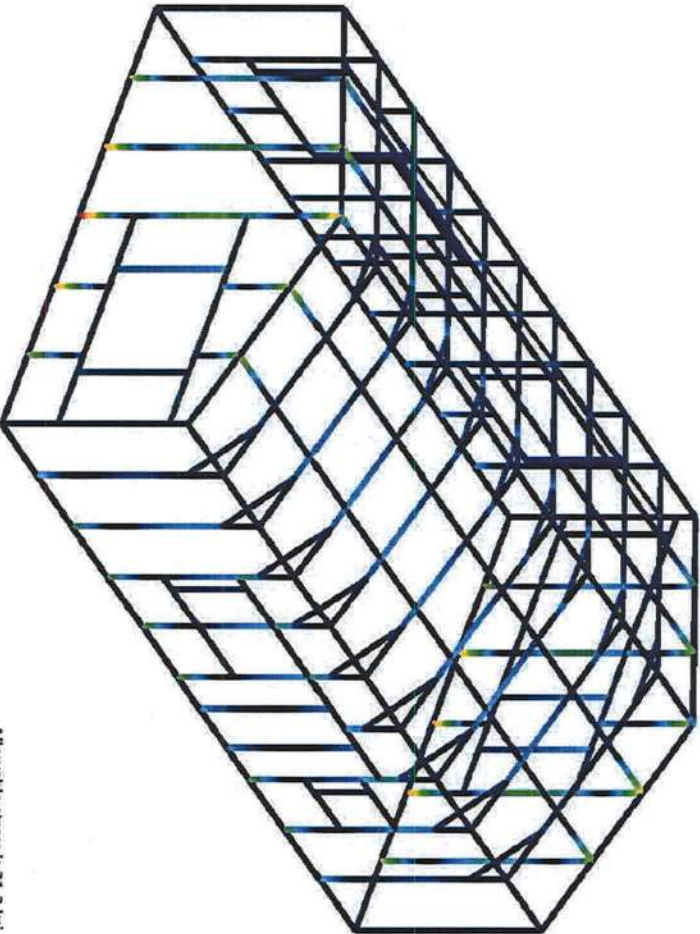
PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE
STRUCTURAL COMPONENTS	ROOF DECK	CAPITAL METAL SUPPLY, INC. 29 GA. CAPITAL RIB ROOF PANEL	FL20147-2-R2 10/13/20
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAPITAL METAL SUPPLY, INC. 29 GA. CAPITAL RIB WALL PANEL	FL20148-2-R2 10/13/20
EXTERIOR DOORS	SWINGING	PLASTPRO INC. NANVA PLASTICS CORP. A. ONELITE SERIES FIBERGLASS DOOR	FL15215-1-R6 10/13/20
WINDOWS	SINGLE HUNG	PELLA CORPORATION 250 SERIES SINGLE HUNG WINDOW	FL16812-4-R5 11/10/20

RISK CATEGORY:	II
MAXIMUM DISPLACEMENT:	L/240
ULTIMATE WIND SPEED (MPH):	120
NOMINAL DESIGN WIND SPEED (MPH):	93
WIND EXPOSURE CATEGORY:	B
BUILDING ENCLOSURE TYPE:	ENCLOSED
ROOF ANGLE (DEGREES):	18.0
MEAN ROOF HEIGHT (FEET):	12.0
DESIGN PRESSURES (PSF):	
ROOF:	
ZONE 1:	+9.0 / -14.2
ZONE 2:	+9.0 / -24.8
ZONE 3:	+9.0 / -36.6
DESIGN ROOF PRESSURES:	
WALLS:	
ZONE 4:	+15.5 / -16.9
ZONE 5:	+15.5 / -20.8
DESIGN WALL PRESSURES:	
SWINGING DOOR:	+14.9 / -16.1
WINDOW:	+15.5 / -16.9



3-D FINITE ELEMENT ANALYSIS PERFORMED
STRUCTURE COMPLIES W/ FBC 2020 7th EDITION

STRESS



FLORIDA ENGINEERING LLC
4161 TAMiami TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
www.flengineeringllc.com

PROJECT NO. 2133747

CA CERT. #30782

CONTRACTOR:
TUBULAR BUILDING SYSTEMS

PROJECT ADDRESS:
HUTCHINS
720 SW YALE TER
FORT WHITE, FL 32038

DESIGN DATE:	12/20/2021
REVISION 1:	DATE
REVISION 2:	DATE
DRAWN BY:	TCP
SCALE:	NTS
SHEET:	01

DATE: DEC 22 2021

Craig E. Gunderson, P.E. #60102

PROFESSIONAL ENGINEER

STATE OF FLORIDA

No. 60102

CRAIG E. GUNDERSON

LICENSE

FLORIDA ENGINEERING LLC

4161 TAMAMI TRAIL, UNIT 101

PORT CHARLOTTE, FLORIDA 33952

(941) 391-5980

www.flengineeringllc.com

PROJECT NO. 2133747

CA CERT. #30782

TUBULAR BUILDING SYSTEMS

CONTRACTOR:

PROJECT ADDRESS:

HUTCHINS

720 SW YALE TER

FORT WHITE, FL 32038

DESIGN DATE: 12/20/2021

DATE

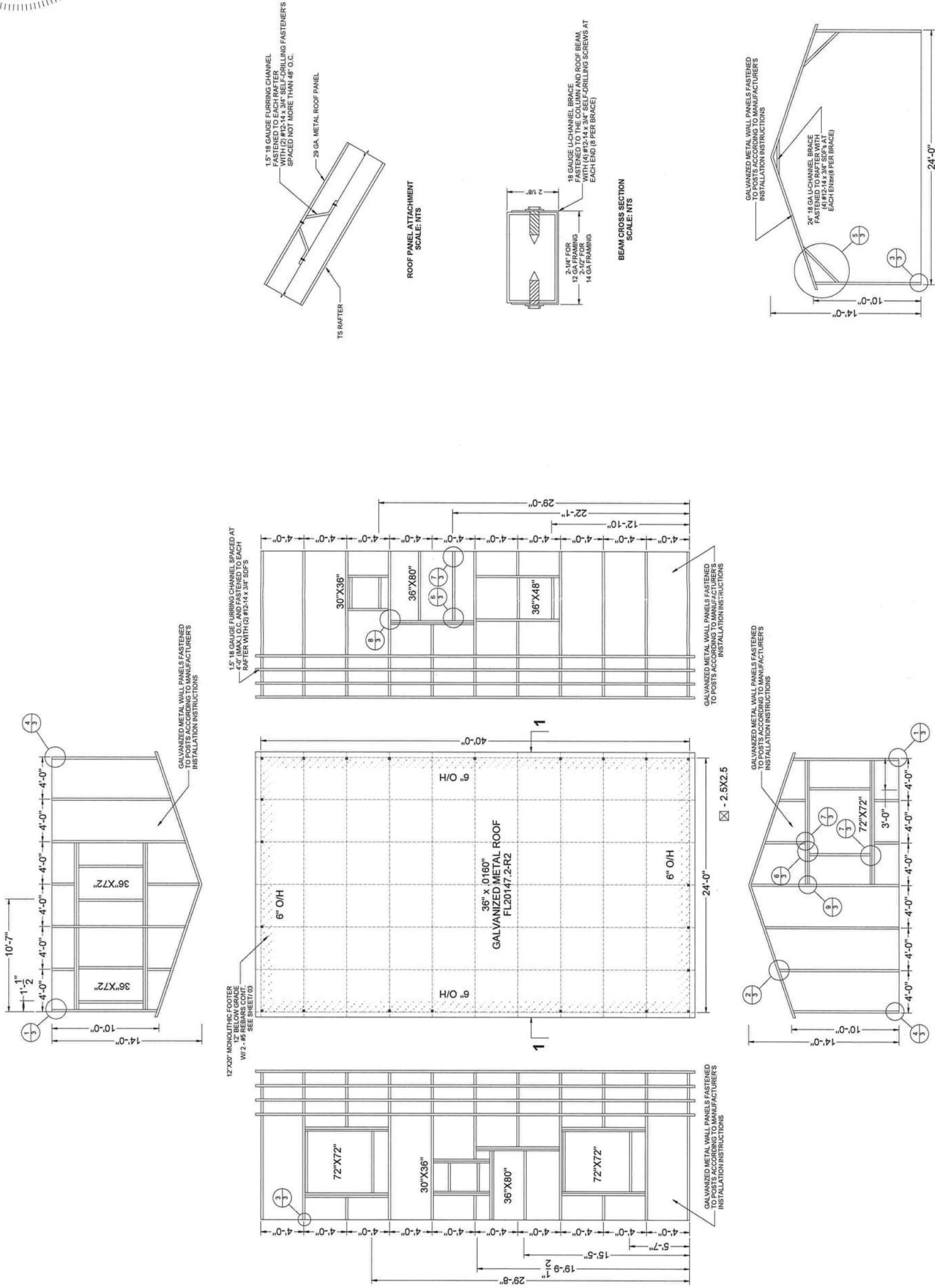
REVISION 1:

REVISION 2:

DRAWN BY: TCP

SCALE: NTS

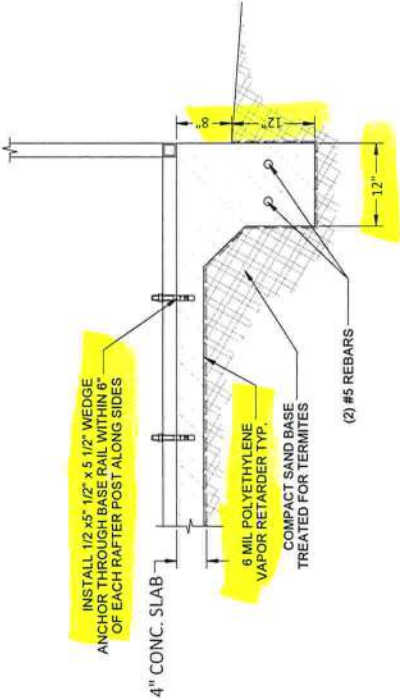
SHEET: 02



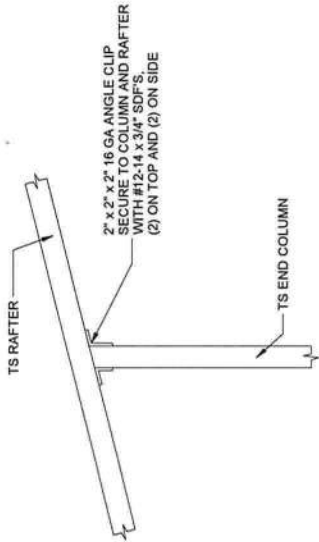
SECTION 1 - 1

GENERAL NOTES

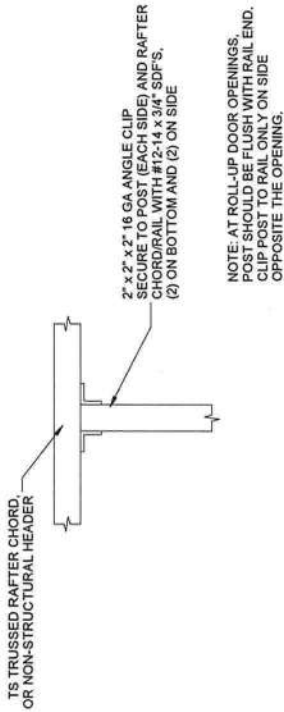
- CONCRETE:
- CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- COVERAGE OF THE REINFORCED STEEL:
- FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318, 3 INCHES WHERE THE CONCRETE IS POURED AGAINST AND TEMPORARY IN CONTACT WITH THE EARTH OR UNPROTECTED FROM THE EARTH OR WEATHER, OTHERWISE 1-1/2 INCHES.
- CONCRETE NOTE:
- ALL OPEN AREAS OF CONCRETE OUTSIDE OF THE PROPOSED STRUCTURE SHALL BE DESIGNED TO SLOPE AWAY FROM THE STRUCTURE
- REINFORCING STEEL:
- THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.
- REINFORCEMENT MAY BE BENT IN THE FIELD OR SHOP AS LONG AS:
1. IT IS BENT COLD;
 2. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT;
 3. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.



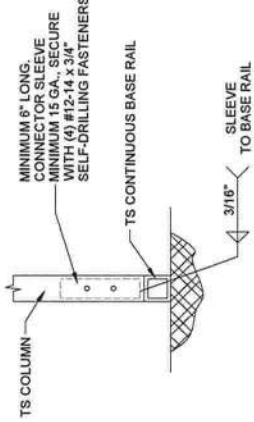
1 CONCRETE MONO SLAB BASE RAIL ANCHORAGE
SCALE: NTS



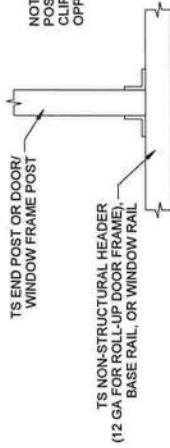
2 END POST/RAFTER CONNECTION DETAIL
SCALE: NTS



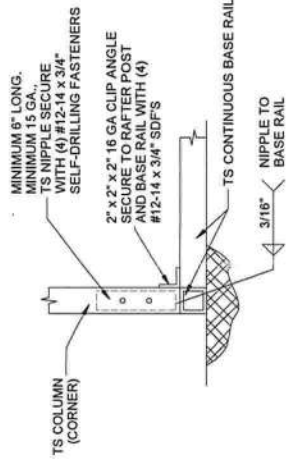
3 POST TO NON-STRUCTURAL HEADER, BASE RAIL OR WINDOW RAIL CONNECTION DETAIL
SCALE: NTS



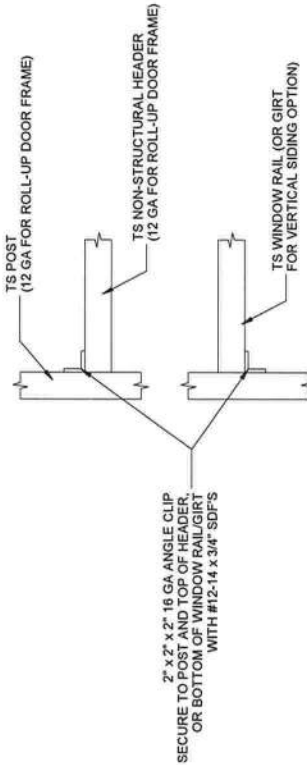
4 RAFTER POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



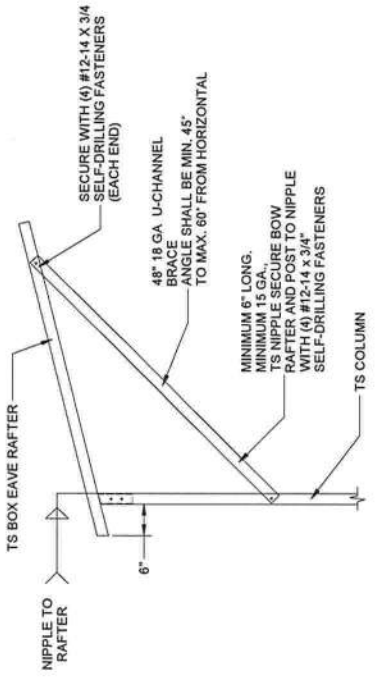
5 POST TO NON-STRUCTURAL HEADER, BASE RAIL OR WINDOW RAIL CONNECTION DETAIL
SCALE: NTS



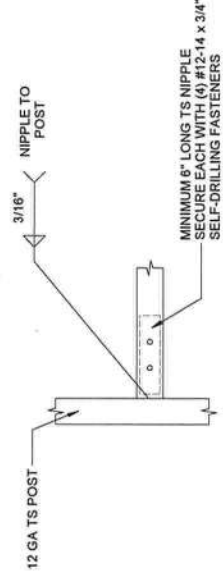
6 END POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



7 NON-STRUCTURAL HEADER OR WINDOW RAIL TO POST CONNECTION DETAIL
SCALE: NTS



8 BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL
SCALE: NTS

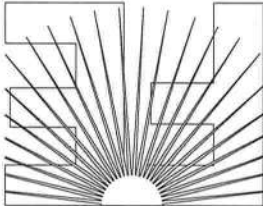


9 HEADER/POST CONNECTION DETAIL
SCALE: NTS



DATE: DEC 22 2021
Craig E. Gunderson, P.E. #60102

FLORIDA ENGINEERING LLC
4161 TAMAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
www.flengineeringllc.com
PROJECT NO. 2133747
CA CERT. #30782



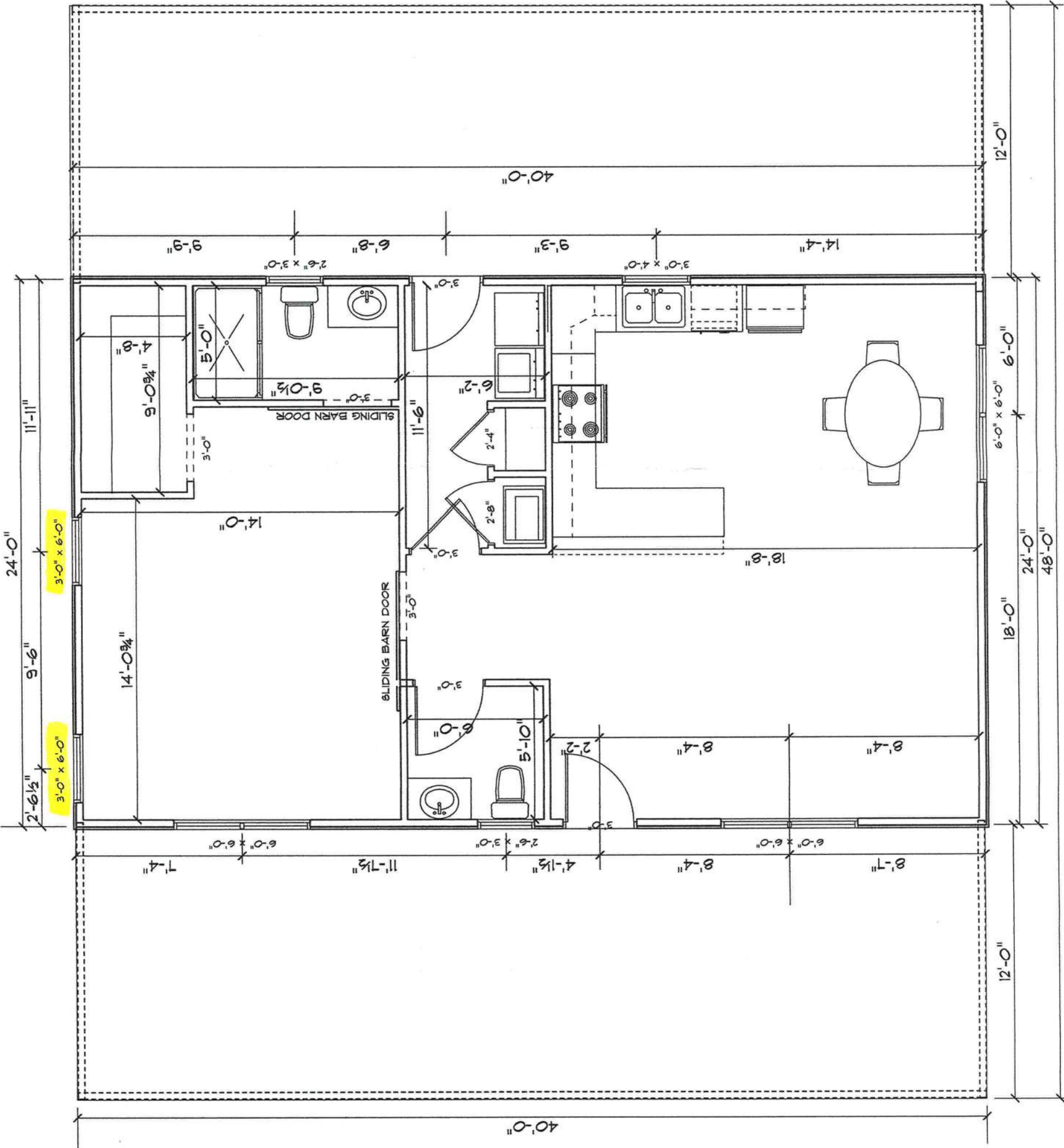
CONTRACTOR: TUBULAR BUILDING SYSTEMS
PROJECT ADDRESS: HUTCHINS
720 SW YALE TER
FORT WHITE, FL 32038

DESIGN DATE: 12/20/2021
REVISION 1: DATE
REVISION 2: DATE
DRAWN BY: TCP
SCALE: NTS
SHEET: 03

DESIGNER
MIKE TODD
129 N. COLBURN
LAKE CITY, FL 32055

A CUSTOM HOME FOR
DALE & TERESA HUTCHINGS
720 SW YALE TERR.
FORT WHITE, FLORIDA 32038
01-65-15-00490-003

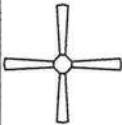
MIKE TODD CONSTRUCTION
CGC 006209
149 SE BROWN ST.
LAKE CITY, FL 32025

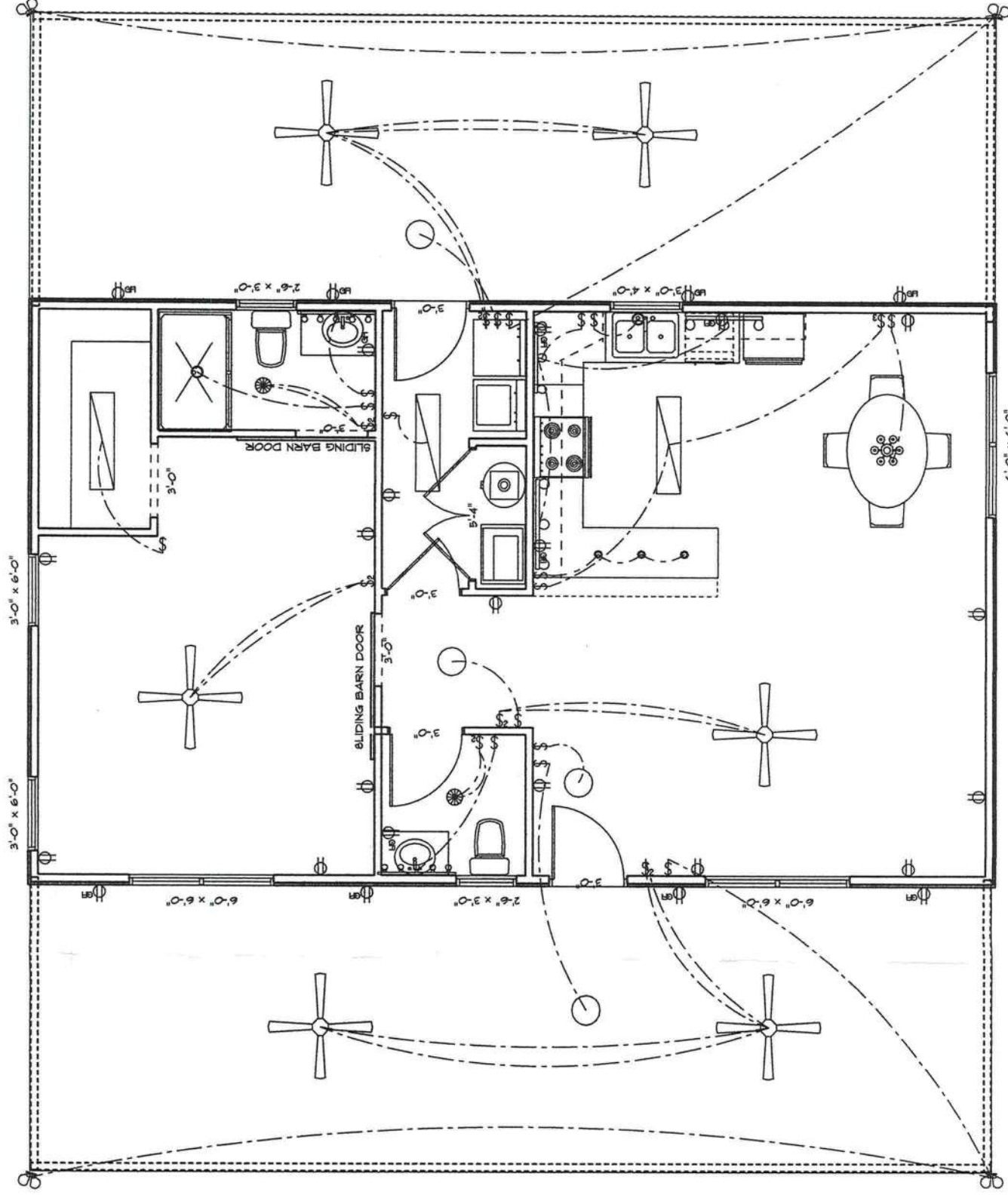


FLOOR PLAN

ELECTRICAL PLAN NOTES

- E-1 WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS
- E-2 CONSULT OWNER FOR ALL AUDIO, VIDEO, AND SECURITY WIRING.
- E-3 ALL SMOKE DETECTORS SHALL BE 120 V W/ BATTERY BACKUP AND SHALL BE INTERLOCKED TOGETHER. INSTALLED PER CURRENT BUILDING CODE.
- E-4 ALL INSTALLATIONS SHALL BE ACCORDING TO NATIONAL ELECTRIC CODE
- E-5 ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND SIZING OF ELECTRICAL SERVICE AND CIRCUITS.
- E-6 ALL GFI AND AFCI CIRCUITS TO BE ACCORDING TO CURRENT ELECTRICAL CODE

ELECTRICAL LEGEND		
ELECTRICAL	COUNT	SYMBOL
CEILING FAN LIGHT		
CEILING LAMP FL		
CEILING LAMP SM		
CEILING LAMP LG		
EXT. LIGHT WALL		
EXT. LIGHT CEILING		
CHANDELIER		
PENDANT LIGHT		
EXT. FLOOD LIGHT		
RECESSED CAN LIGHT		
VANITY BAR LIGHT		
OUTLET		
220 V OUTLET		
GFI OUTLET		
WP OUTLET		
SWITCH		
3 WAY SWITCH		
DOUBLE SWITCH		



ELECTRICAL

DESIGNER
MIKE TODD
129 N. COLBURN
LAKE CITY, FL 32055

A CUSTOM HOME FOR
DALE & TEREBA HUTCHINS
120 SW YALE TERR.
FORT WHITE, FLORIDA 32038
01-68-15-00490-003

MIKE TODD CONSTRUCTION
CGC 006209
149 SE BROWN ST.
LAKE CITY, FL 32025