

Outside measurement of foundation
Equals Basic Building Dimension
plus Seven (7) inches

50' 7"

Basic Building
Dimension
to outside of Base Rail

50'

BUILDING SLAB

Basic Building
Dimension
to outside of Base Rail

30'

Outside measurement of foundation
Equals Basic Building Dimension
plus Seven (7) inches

30' 7"

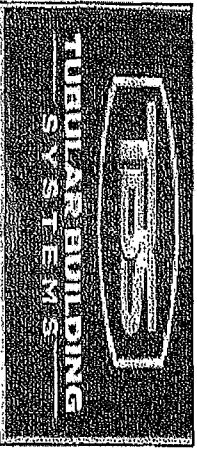
See Corner
Detail Sheet 3

Building
Base Rail

3-1/2" wide x 1-1/2" high Notch
in Concrete outside
of basic building
dimensions

TYPICAL BUILDING

FOUNDATION MEASUREMENTS

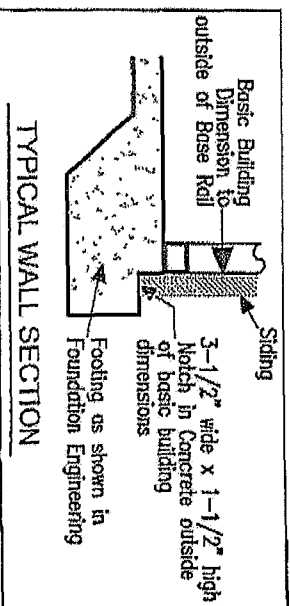


IMPORTANT - NOTES

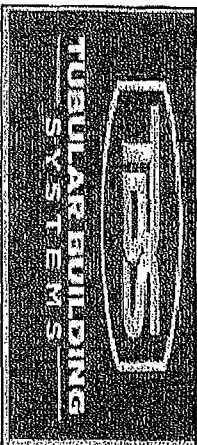
Record Measurements
in these spaces provided

All basic building dimensions
are to the outside of the
frame Base Rail and DO NOT
INCLUDE the 3-1/2" x 1-1/2"
notch in the concrete footing

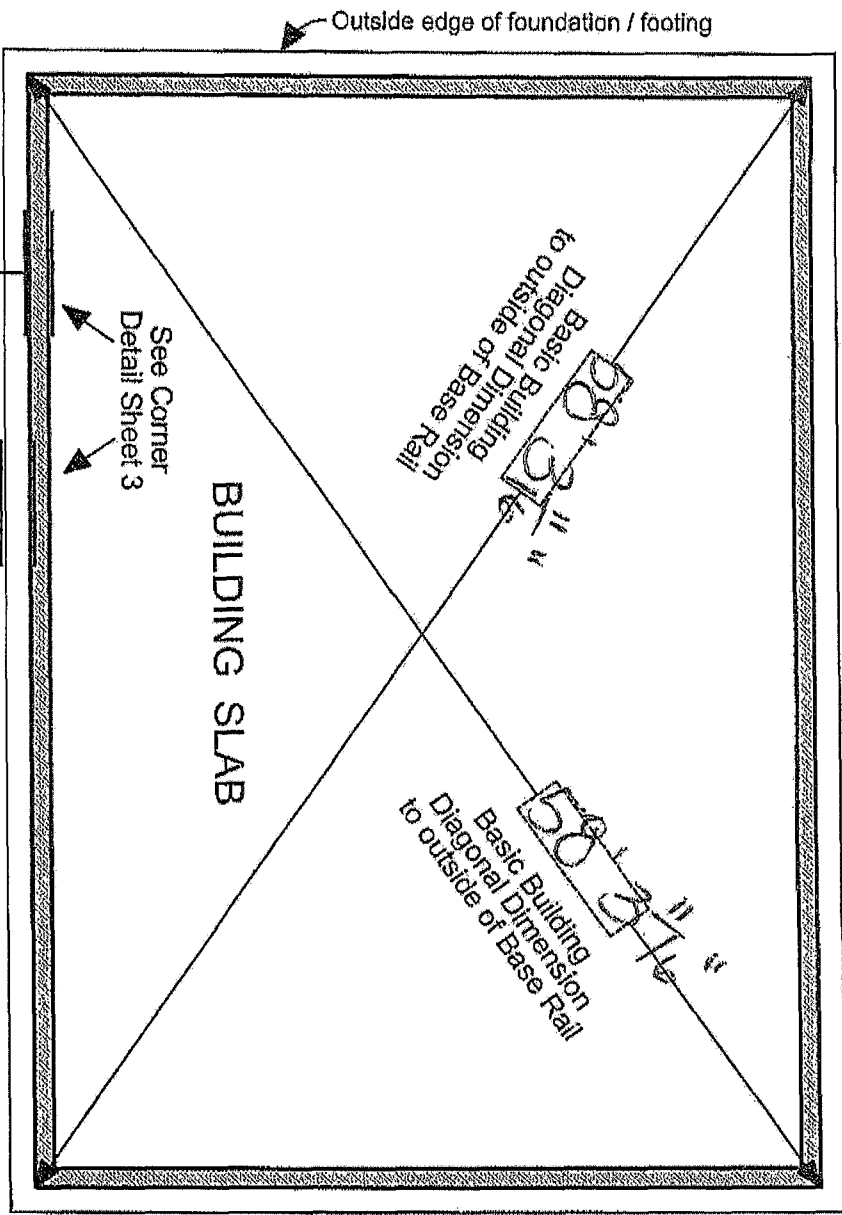
See Sheet 3 of 3
for Detail of Building
corner configuration



TYPICAL WALL SECTION



TYPICAL BUILDING FOUNDATION MEASUREMENTS. DIAGONALS



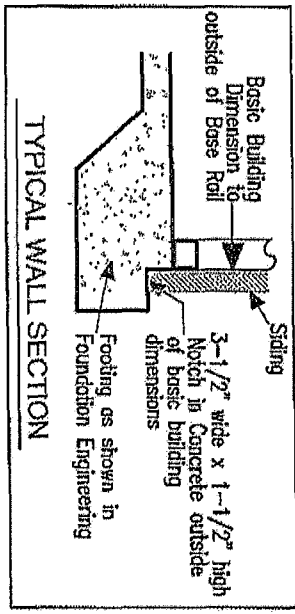
3-1/2" wide x 1-1/2" high Notch in Concrete outside of basic building dimensions

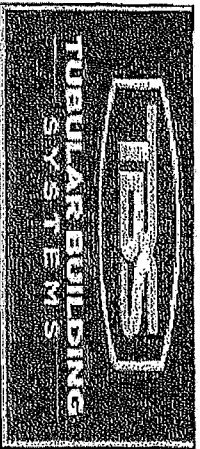
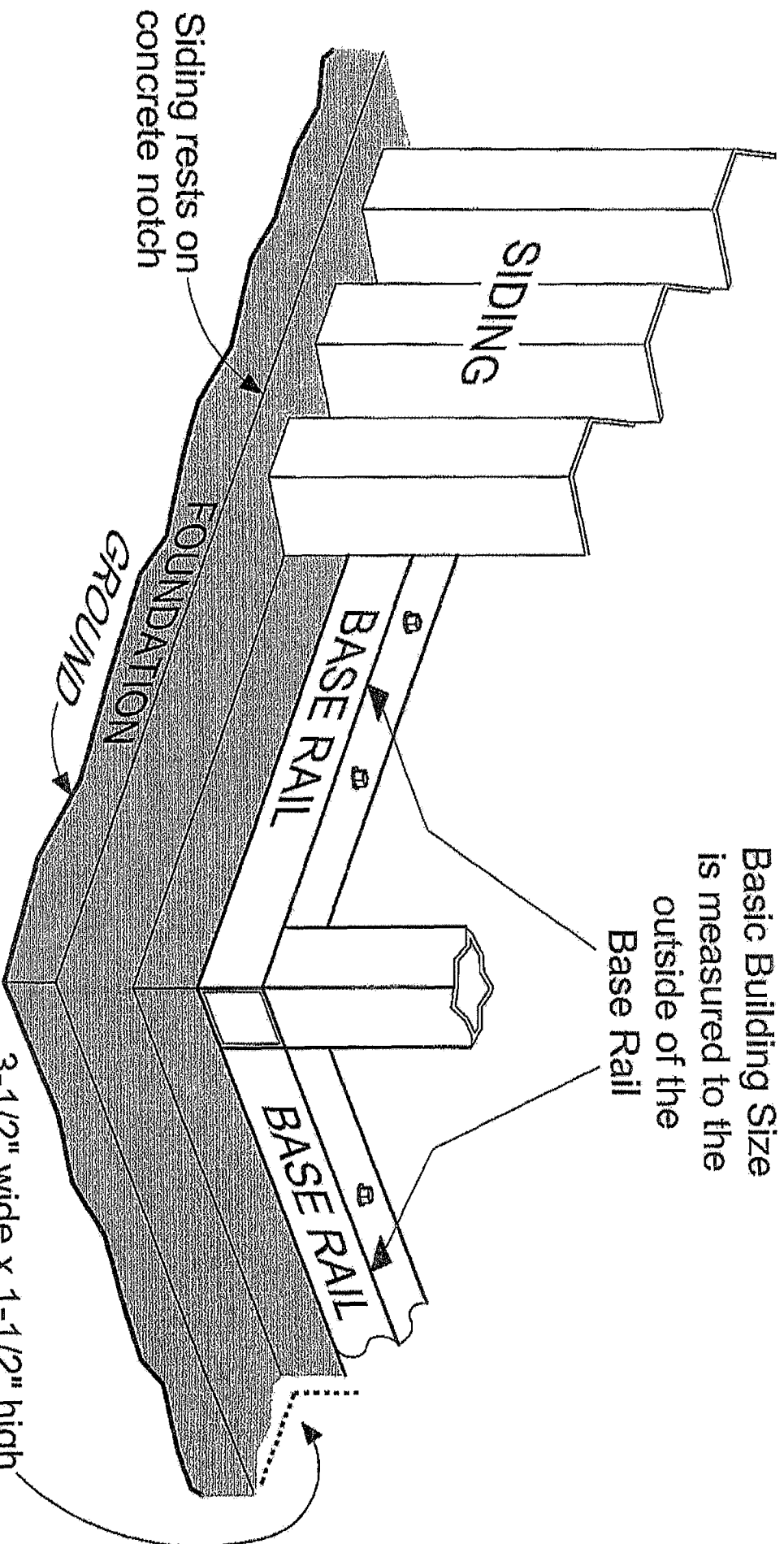
IMPORTANT - NOTES

Record Measurements in these spaces provided

All basic building diagonal dimensions are to the outside corner of the frame Base Rail and DO NOT INCLUDE the 3-1/2" x 1-1/2" notch in the concrete footing

See Sheet 3 of 3 for Detail of Building corner configuration





TYPICAL BUILDING

CORNER DETAIL

SHEET 3 of 3

GENERAL NOTES

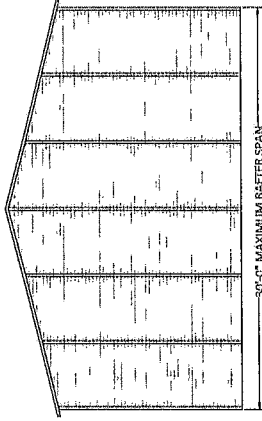
- DESIGN IS FOR MAXIMUM 50'-0" WIDE X 20'-0" EAVE HEIGHT FULLY ENCLOSED STRUCTURES.
- APPLICABLE CODES, REGULATIONS, & STANDARDS:
 - 2023 FLORIDA BUILDING CODE (8TH EDITION)
 - 2024 INTERNATIONAL BUILDING CODE
 - ASCE 7-22: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
 - AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
 - ACI 308-2R: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - ACI 309-16: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
 - AWG 311.1: STRUCTURAL WELDING
- RISK CATEGORY 1
- EXPOSURE CATEGORY: C
- LOW ULTIMATE WIND SPEED: 105 TO 150 MPH (NOMINAL WIND SPEED 81 TO 116 MPH); MAXIMUM RAFTER/POST AND END POST SPACING = 5.0 FEET
- HIGH ULTIMATE WIND SPEED: 151 TO 180 MPH (NOMINAL WIND SPEED 117 TO 139 MPH); MAXIMUM RAFTER/POST AND END POST SPACING = 4.0 FEET
- DEAD LOAD = 10 PSF
- LIVE LOAD = 10 PSF
- SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" 1/4 GAUGE TUBE STEEL (T8) FRAMING MEMBERS FOR VERTICAL PANELS, 29 GAUGE METAL PANELS SHALL BE FASTENED TO 18 GAUGE HAT CHANNELS (UNLESS OTHERWISE NOTED).
- OPTIONAL BASE RAIL ANCHORAGE MAY BE USED FOR LOW AND MUST BE USED FOR HIGH WIND SPEEDS.
- FASTENERS CONSIST OF #12x14x3/4" SELF DRILLING FASTENER (SDP), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 1:12 (8:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY
- AVERAGE FASTENER SPACING ON CENTERS ALONG RAFTERS OR PURLINS, AND POSTS: INTERIOR = 9" OR END = 6" (MAX).
- WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
RISK CATEGORY (M/R)
R = 3.25
I_e = 1.0
S_{MS} = 0.067 g V = CW
S_{SI} 0.084 g
- GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES.
- GROUND ANCHOR (SOIL NAILS) CONSIST OF #5 REBAR W/ WELDED NUT X 50" LONG IN SUITABLE SOIL CONDITIONS MAY BE USED FOR LOW (S 108 MPH NOMINAL) WIND SPEEDS ONLY. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
- MIN. LAP REQUIREMENT FOR REBAR IN FOOTER IS 25"
- SOIL TO BE COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY, AT OPTIMUM MOISTURE CONTENT, IN ACCORDANCE WITH ASTM D1557-95
- PRIOR TO PLACING CONCRETE, TREAT THE ENTIRE SUBSURFACE AREA FOR TERMITES IN COMPLIANCE WITH THE FSC.
- LANDINGS OF MIN. 36" WIDTH IN THE DIRECTION OF TRAVEL SHALL BE PROVIDED AT THE EXTERIOR DOORS. SLOPE OF LANDINGS NOT TO EXCEED 1/4"=1". LANDING LEVEL NOT TO BE LOWER THAN 1'-1/2" (FOR EXTERIOR DOORS) & 7'-3/4" (FOR OTHER EXTERIOR DOORS) BELOW THE TOP OF THRESHOLD.

DRAWING INDEX

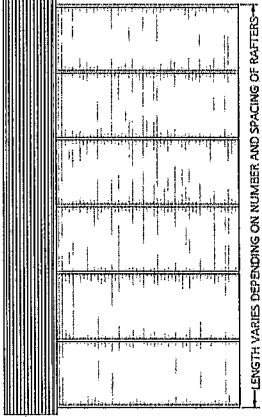
PLATE NO.	DESCRIPTION
1	NOTES AND SPECIFICATIONS
2	BOX EAVE FRAME RAFTER ENCLOSED BUILDING
3	BOW EAVE FRAME RAFTER ENCLOSED BUILDING PRESSURES
4	BASE RAIL AND FOUNDATION ANCHORAGE
5	BOX/BOW EAVE VERTICAL FOOTING OPTION
6	BOX/BOW EAVE RAFTER LEAK TO OPTIONS
7	BOX EAVE RAFTER ENCLOSED BUILDING FRAMING
8	BOX EAVE RAFTER ENCLOSED BUILDING CHIMNEY WALL DETAIL
9	OPTIONAL CONCRETE STRIP FOOTING

emailed

ENCLOSED METAL BUILDING DESIGN
MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT
BOX/BOW EAVE FRAME

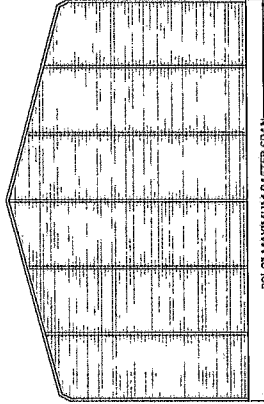


30'-0" MAXIMUM RAFTER SPAN
TYPICAL END ELEVATION - HORIZONTAL ROOF

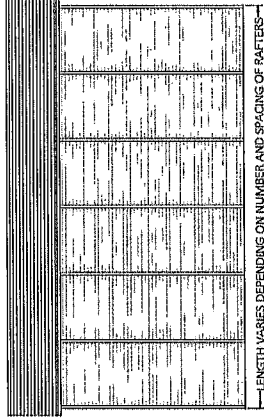


LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS
TYPICAL SIDE ELEVATION - HORIZONTAL ROOF

BOX EAVE FRAME RAFTER ENCLOSED BUILDING



50'-0" MAXIMUM RAFTER SPAN
TYPICAL END ELEVATION



LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS
TYPICAL SIDE ELEVATION

BOW FRAME RAFTER ENCLOSED BUILDING

PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE
STRUCTURAL COMPONENTS	ROOF DECK	CAPITAL METAL SUPPLY, INC. 25 GA. CAPITAL RB ROOF PANEL	FL20427-2-33 12/13/2023
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAPITAL METAL SUPPLY, INC. 25 GA. CAPITAL RB WALL PANEL	FL20428-2-33 12/13/2023
EXTERIOR DOORS	ROLL-UP	JANUS INTERNATIONAL GROUP LLC SERIES 3552	FL14425-3-36 12/15/21
EXTERIOR DOORS	ROLL-UP	JANUS INTERNATIONAL GROUP LLC SERIES 750	FL14501-10-111 10/17/23
EXTERIOR DOORS	ROLL-UP	JANUS INTERNATIONAL GROUP LLC SERIES 3100	FL12765-4-36 10/12/23
EXTERIOR DOORS	SWINGING	ELMER DOOR AND METAL COMPANY SERIES 407	FL17995-5-43 12/26/23
WINDOWS	SINGLE HUNG	MINRO, INC. 9750 SH	FL5931-5-R19 11/01/23
WINDOWS	VERTICAL SLIDING	MINRO, INC. 18000-A US	FL6981-5-R19 11/01/23

DIGITAL CERTIFICATION NOTE:
1. THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SHALL REMAIN IN DIGITAL FORM. IT SHALL BE VERIFIED BY ELECTRONIC MEANS & PRINTED COPY SHALL BE VOID AND SEALED.
2. THIS DOCUMENT HAS BEEN OPERATED BY FLORIDA ENGINEERING LLC FOR TUBULAR BUILDING SYSTEMS. WITHOUT THE WRITTEN CONSENT OF FLORIDA ENGINEERING LLC AND TUBULAR BUILDING SYSTEMS, NO ALTERATIONS, ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE FLORIDA ENGINEERING LLC'S CERTIFICATION.
3. THESE PLANS ARE PROVIDED FOR THE PROJECT WHERE THE SITE CONDITIONS DEVIATE FROM WHAT HAS BEEN CALLED OUT ON THESE PLANS.
5. CONTRACTOR MUST NOT DEVIATE FROM THE CONDITIONS DETAILED ON THESE PLANS.
6. CONSTRUCTION SAFETY AT THE SITE IS THE CONTRACTOR'S RESPONSIBILITY.

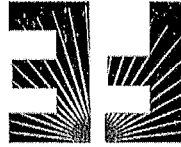
TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE,
LAKE CITY, FL 32026

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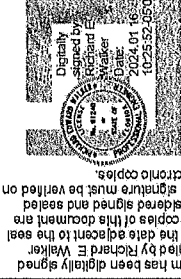
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ENCLOSED STRUCTURE

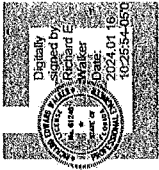
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Orders@FLeng.com
CA CERT #30782



To owner/APPL.





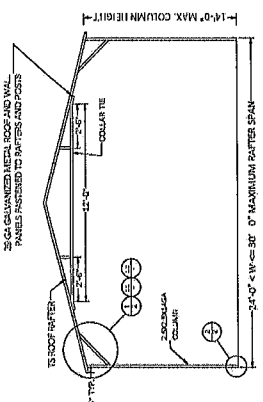
This item has been digitally signed and sealed by Richard E. Walker. The signature and seal are not considered signed and sealed on the date of this document are not considered signed and sealed on any electronic copies.

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PROJECT NO. 2322771-30-E
CA CERT #30702

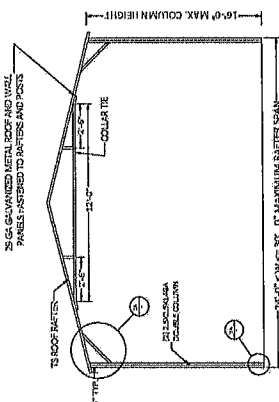
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TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE,
LAKE CITY, FL 32025
PROJECT DESCRIPTION:
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REVISION 1	DATE
REVISION 2	DATE
SCALE	NTS

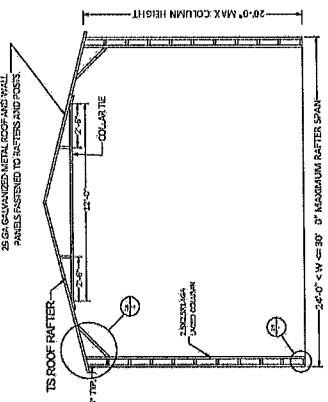
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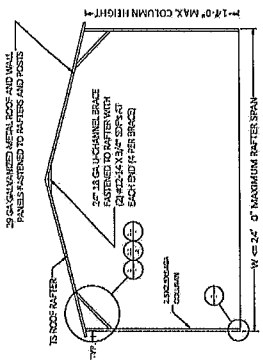
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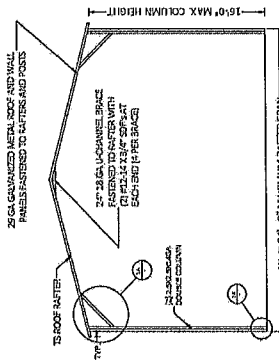
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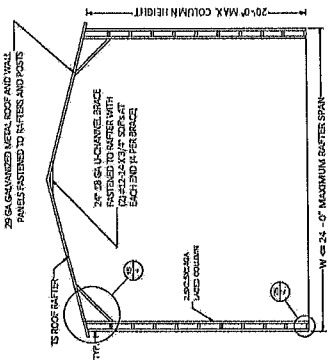
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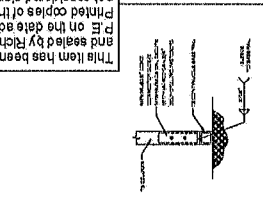
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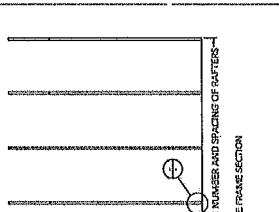
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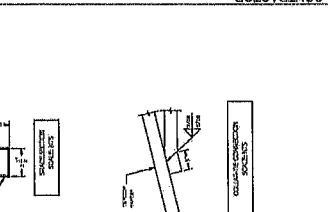
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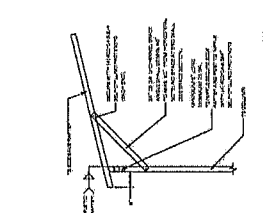
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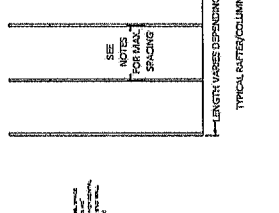
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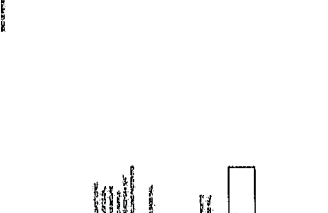
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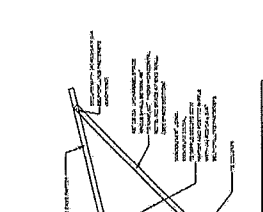
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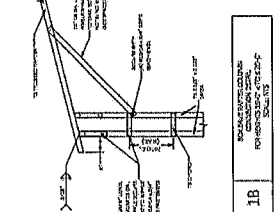
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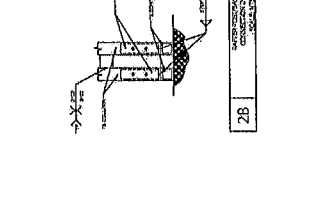
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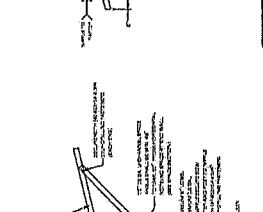
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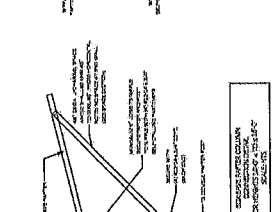
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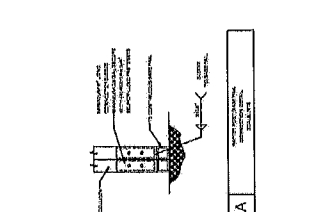
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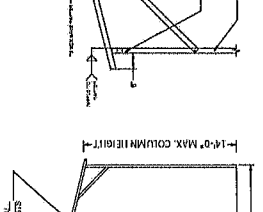
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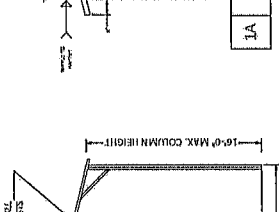
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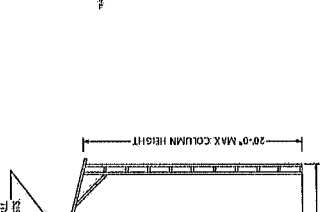
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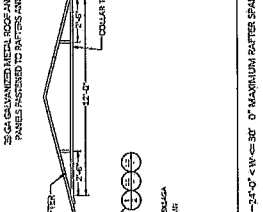
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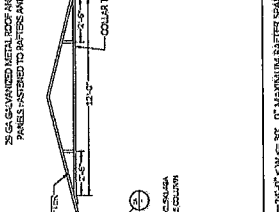
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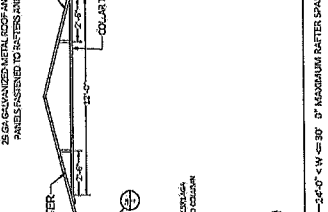
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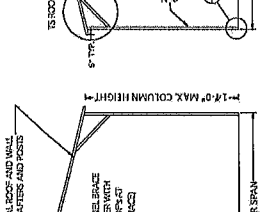
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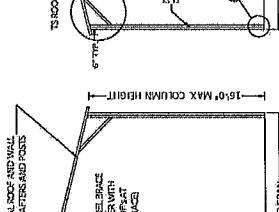
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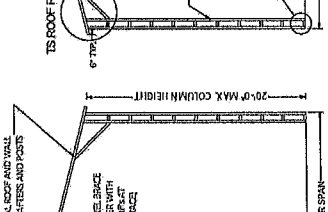
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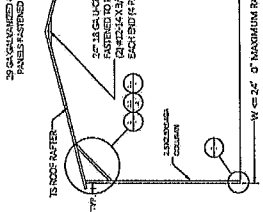
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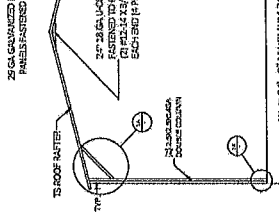
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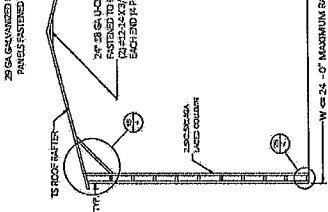
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TYPICAL RAFTER SECTION
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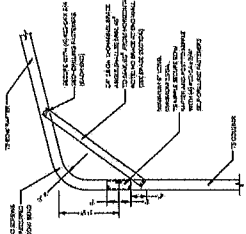
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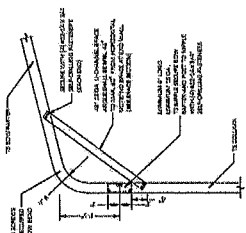
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4161 TAMAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33962
(941) 391-5980
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Orders@FLeng.com
PROJECT NO. 2322771-30-E
CA CERT #30792

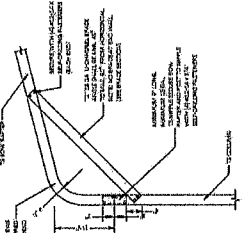
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631 SE INDUSTRIAL CIRCLE,
LAKE CITY, FL 32025
PROJECT DESCRIPTION: 30' WIDE X 20' HIGH
ENCLOSED STRUCTURE
DESIGN DATE: 12/14/2023
REVISION 1
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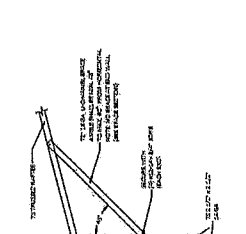
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NO. 100255-9500
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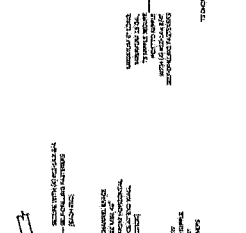
1.2 EAVE RAFTER COLUMN CONNECTION
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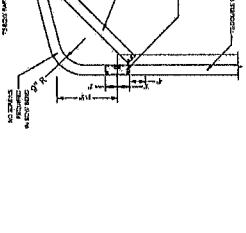
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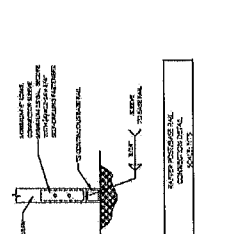
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SCALE: NTS



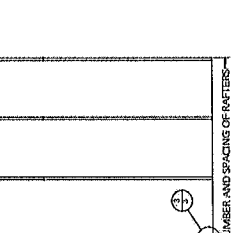
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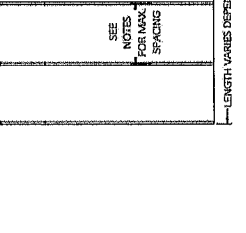
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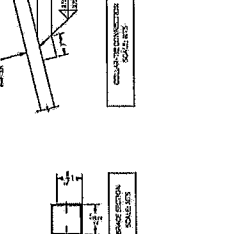
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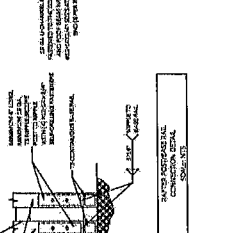
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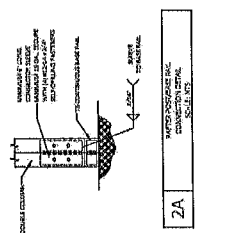
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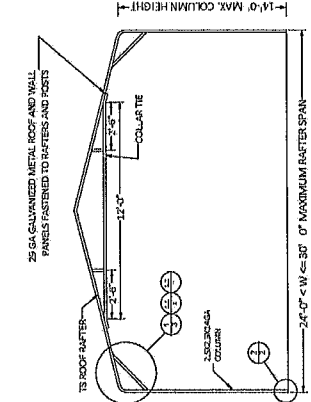
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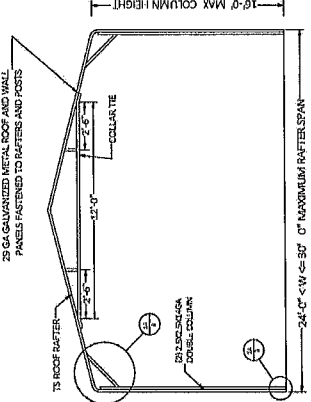
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SCALE: NTS



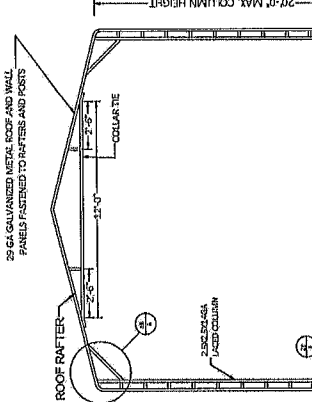
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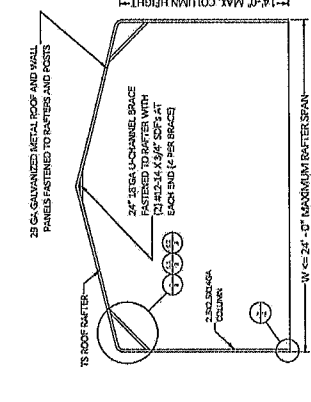
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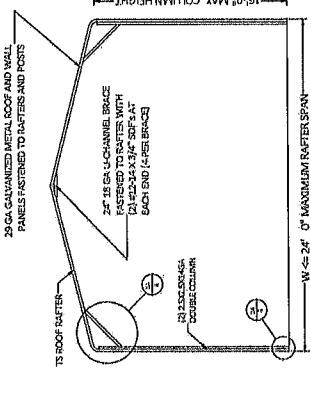
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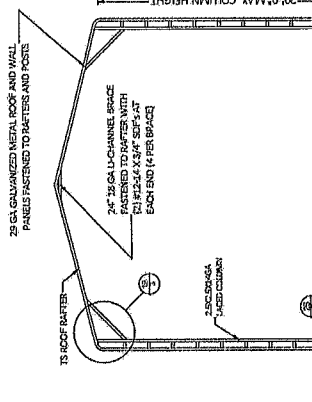
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TYPICAL RAFTER SECTION



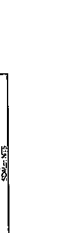
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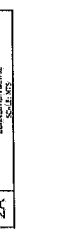
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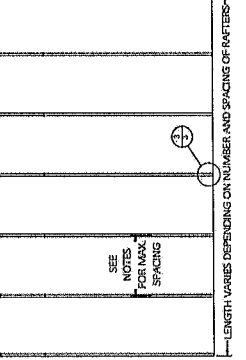
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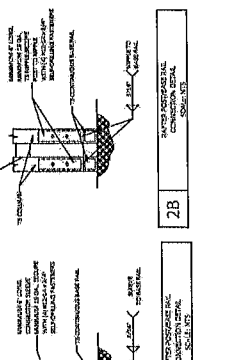
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NO. 100255-9500
SCALE: NTS



2A EAVE RAFTER COLUMN CONNECTION
NO. 100255-9500
SCALE: NTS



TYPICAL BOW EAVE RAFTER COLUMN SIDE FRAME SECTION



TYPICAL BOW EAVE RAFTER COLUMN SIDE FRAME SECTION



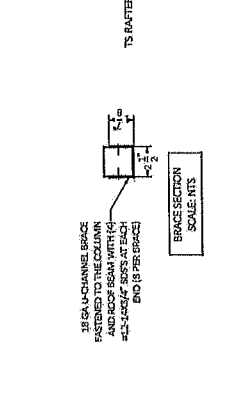
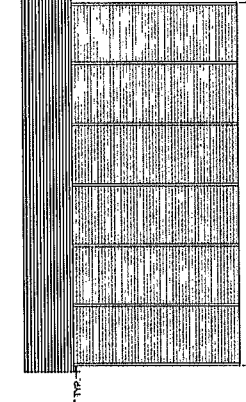
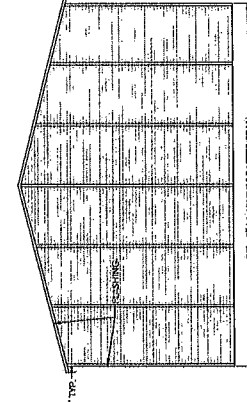
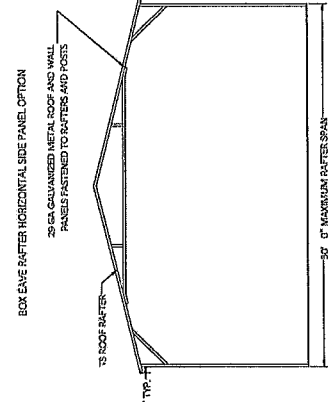
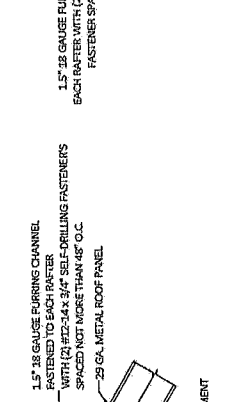
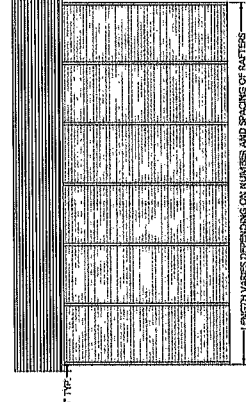
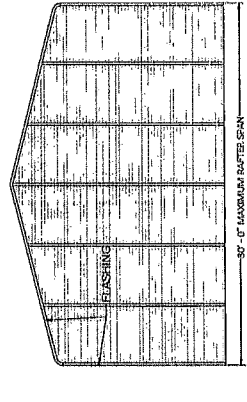
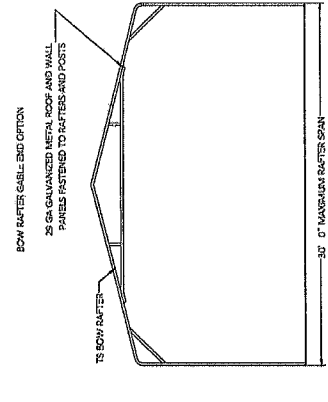
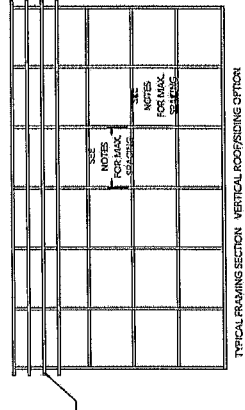
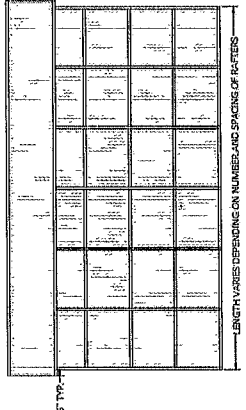
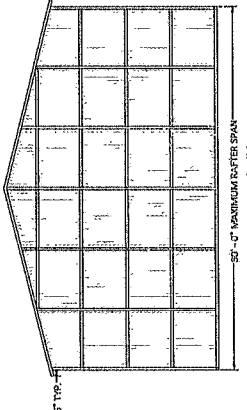
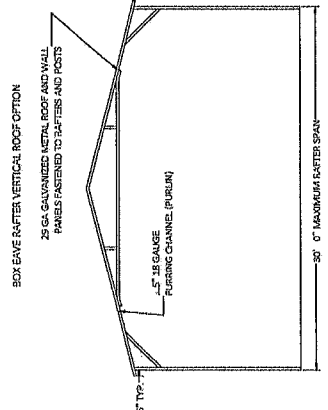
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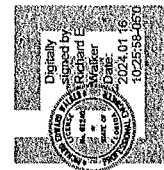


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PORT CHARLOTTE, FLORIDA 33962
(941) 391-5980
FLeng.com
Orders@FLeng.com

PROJECT NO. 2322771-30-E
CA CERT #30792

CONTRACTOR		PROJECT DESCRIPTION	
TUBULAR BUILDING SYSTEMS		LAKE CITY, FL 32025	
ENCLOSED STRUCTURE		30' WIDE X 20' HIGH	
DESIGN DATE:	12/14/2023	REVISION 1	DATE
REVISION 2	DATE	REVISION 1	DATE
SCALE:	NTS	SCALE:	NTS





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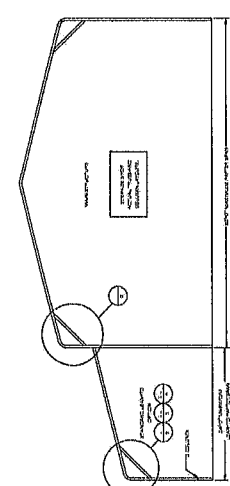
PROJECT NO. 2322771-30-E CA CERT #30792

CONTRACTOR:
TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE,
LAKE CITY, FL 32026

PROJECT DESCRIPTION:
30' WIDE X 20' HIGH
ENCLOSED STRUCTURE

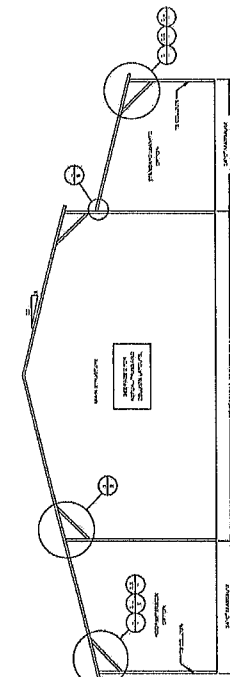
REVISION 1	DATE	SCALE	NTS
REVISION 2	DATE		

BOX RAFTER LEAN-TO OPTIONS

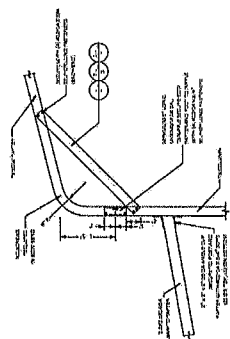


TYPICAL BOX RAFTER LEAN-TO OPTIONS FRAMING SECTION

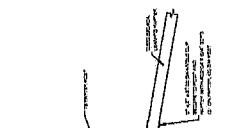
BOX EAVE RAFTER LEAN-TO OPTIONS



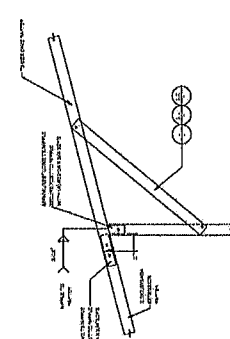
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWING)



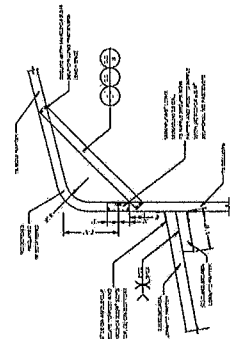
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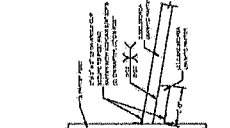
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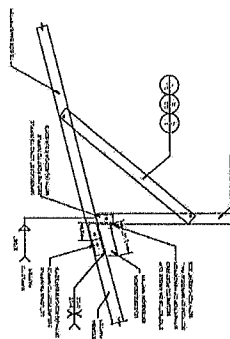
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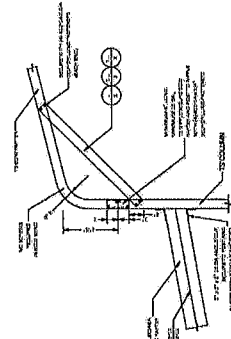
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6B



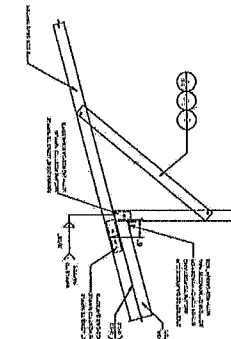
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7C



6C



5C

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Date: 2024.01.16 10:26:00-0500

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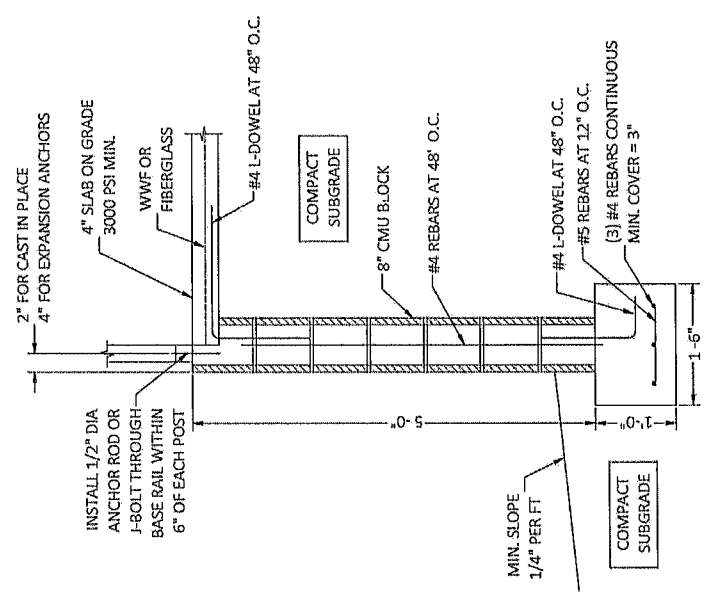
TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE,
LAKE CITY, FL 32026

PROJECT DESCRIPTION:

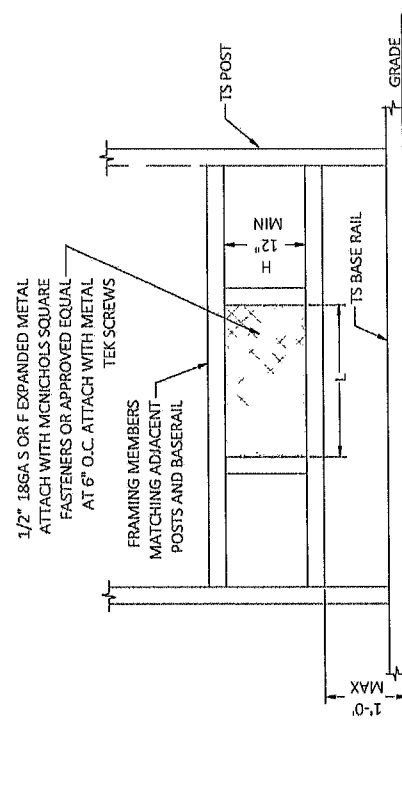
30" WIDE X 20" HIGH
ENCLOSED STRUCTURE

CONTRACTOR:

DESIGN DATE:	12/14/2023	PAGE	8
REVISION 1	DATE	REVISION 2	DATE
SCALE:	NTS		



STAND-ALONE CONCRETE MASONRY UNIT (CMU)
FOUNDATION STEM WALL DETAIL



TYPICAL FLOOD VENT DETAIL

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 = $1 \times H$ (MIN. 12").
5. FLOOD VENT DETAIL COMPLIES WITH FEMA/NFIP
6. PREFABRICATED FLOOD VENTS MEETING THE REQUIREMENTS OF FEMA/NFIP MAY BE USED.

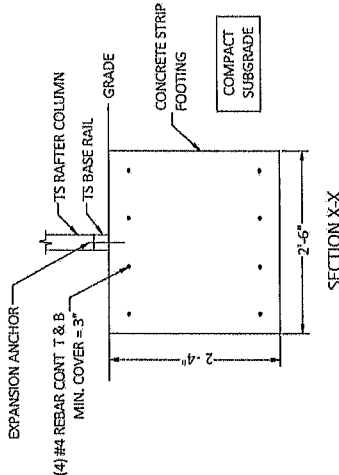
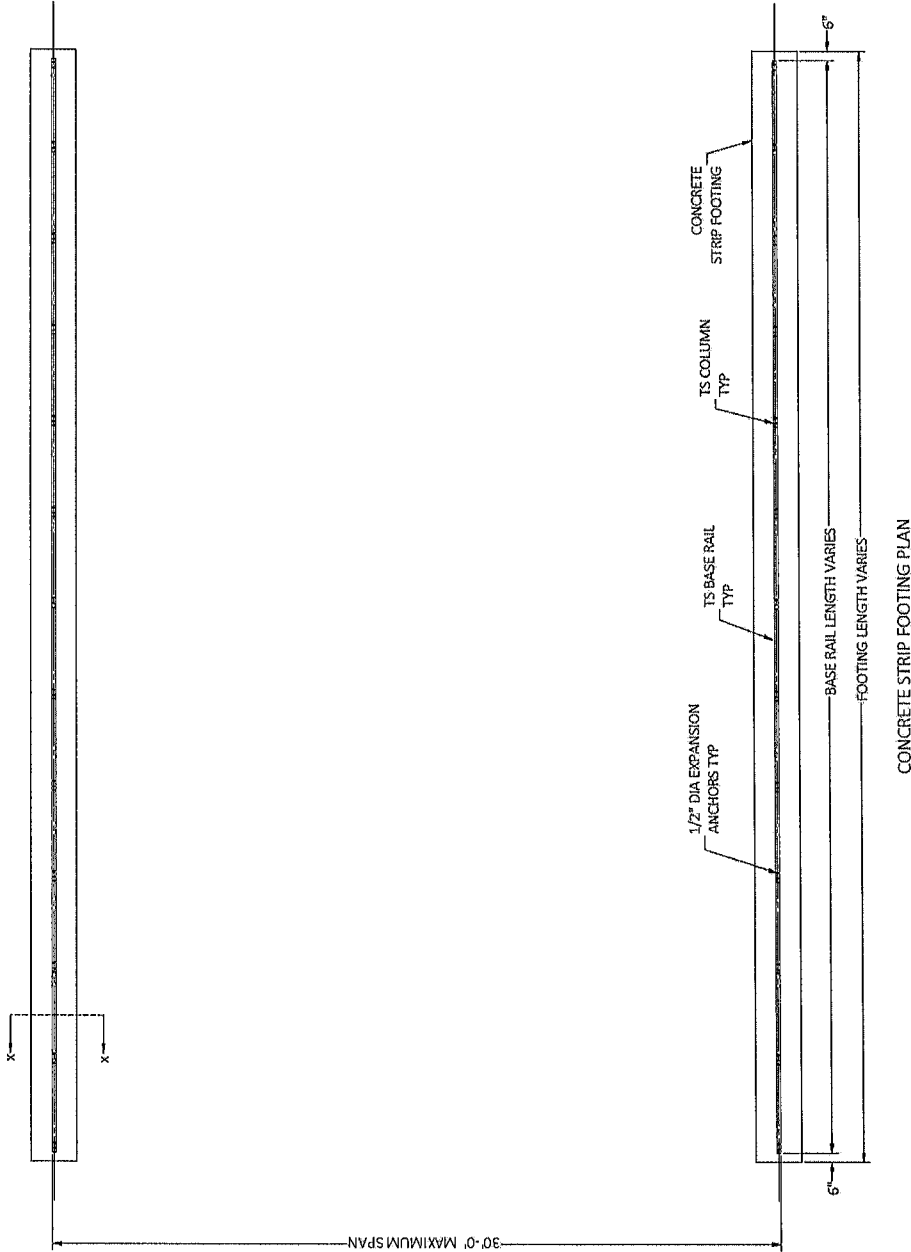
GENERAL NOTES
CONCRETE MONOLITHIC SLAB DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 1500 PSF

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



CONCRETE STRIP FOOTING PLAN

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

30" WIDE X 20" HIGH
ENCLOSED STRUCTURE

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

6

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PROJECT NO. 2322771-30-E
CA CERT #30782



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Richard E.
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2023.01.16
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