

• Engineering
• Geotechnical
Laboratories

Cal-Tech Testing, Inc.

P O Box 1625 • Lake City, FL 32056-1625 • Tel(386)755-3633 • Fax(386)752-5456
2907 Spring Glen Road, Jacksonville FL 32207 • Tel(904)381-8901 • Fax(904)381-8902

REPORT OF IN-PLACE DENSITY TEST

JOB NO.: 25-00085-01

DATE TESTED: 2/18/2025

DATE REPORTED: 2/19/2025

| | |
|-----------------------------|--|
| PROJECT: | Metal Building, Fort White, FL |
| CLIENT: | Reginald Terry, 582 SW Bluff Dr , Fort White, FL 32038 |
| GENERAL CONTRACTOR: | Reginald Terry |
| EARTHWORK CONTRACTOR: | Reginald Terry |
| INSPECTOR: | S Dilger |
| ASTM METHOD | SOIL USE |
| (D 6938) Nuclear | BUILDING FILL |
| SPECIFIED REQUIREMENTS: 95% | |

| TEST NO. | TEST LOCATION | TEST DEPTH | WET DENSITY (lb/ft ³) | MOISTURE PERCENT | DRY DENSITY (lb/ft ³) | PROCTOR TEST NO | PROCTOR VALUE | % MAXIMUM DENSITY |
|----------|---|------------|-----------------------------------|------------------|-----------------------------------|-----------------|---------------|-------------------|
| 1 | 13 ft South & 15 ft East from Northwest Corner of Pad | 12" | 110.4 | 3.7 | 106.5 | 1 | 105.2 | 101% |
| 2 | 30 ft East & 12 ft North from Southwest Corner of Pad | 12" | 113.3 | 4.9 | 108.0 | 1 | 105.2 | 103% |
| 3 | 4 ft South & 7 ft West from Northeast Corner of Pad | 12" | 112.1 | 5.0 | 106.8 | 1 | 105.2 | 102% |

REMARKS:

The Above Tests Meet Specified Requirements

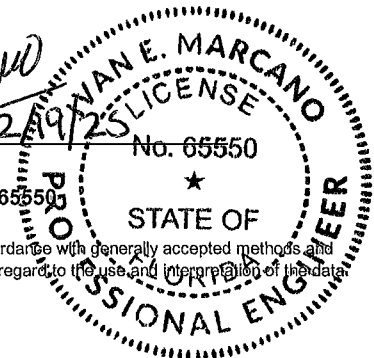
| PROCTORS | | | | |
|-------------|--|---|-------------|------------------------|
| PROCTOR NO. | SOIL DESCRIPTION | MAXIMUM DRY UNIT WEIGHT (lb/ft ³) | OPT. MOIST. | TYPE |
| 1 | Light Tan Sand [A-3] (Refer to CTI Job No 22-00353-01, Sample E002Q) | 105.2 | 13.3 | MODIFIED (ASTM D 1557) |

Respectfully Submitted,
CAL-TECH TESTING, INC.

Reviewed By:

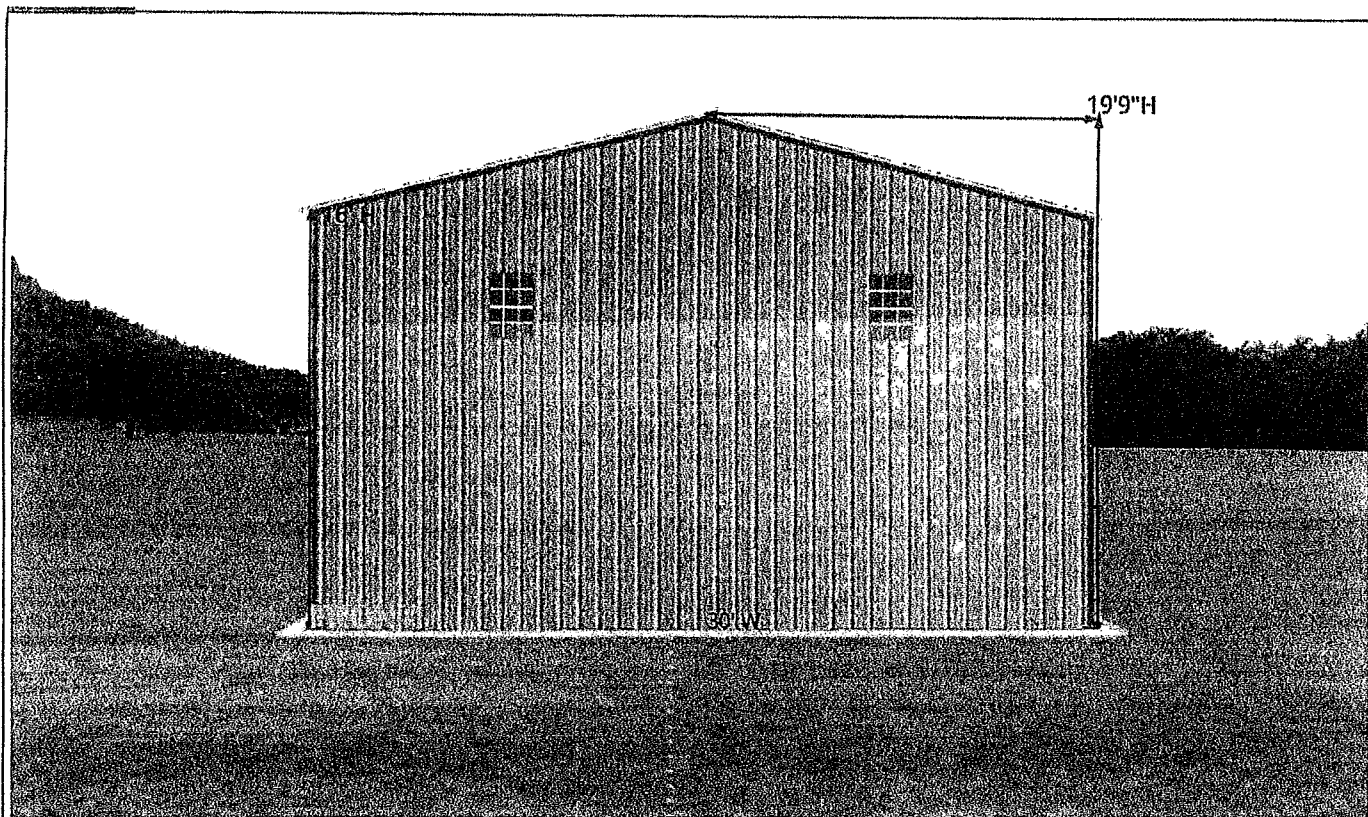
Date:

Licensed, Florida No: 65550



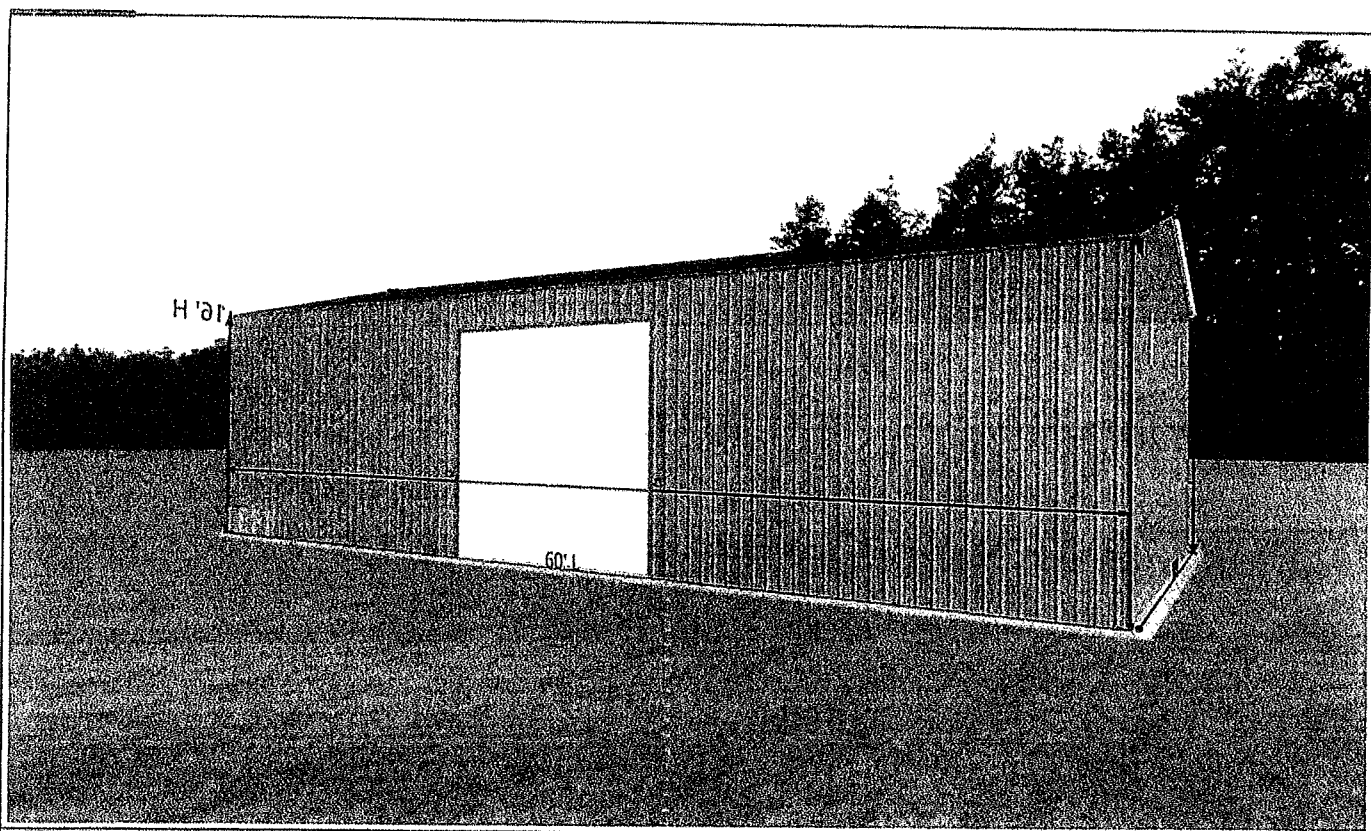
The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgement should be exercised with regard to the use and interpretation of the data. This report shall not be reproduced without prior approval of the author.

BUILDING VIEW



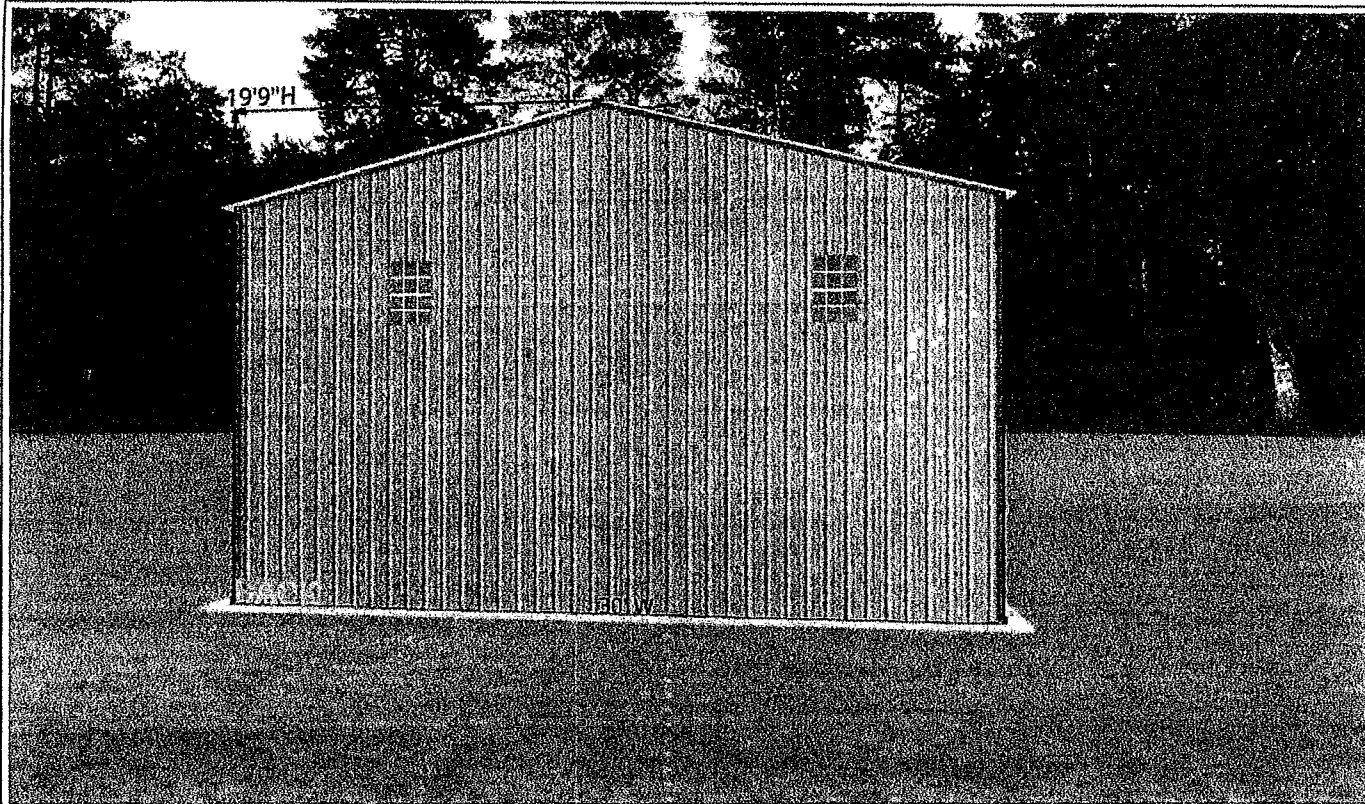
FRONT

BUILDING VIEW



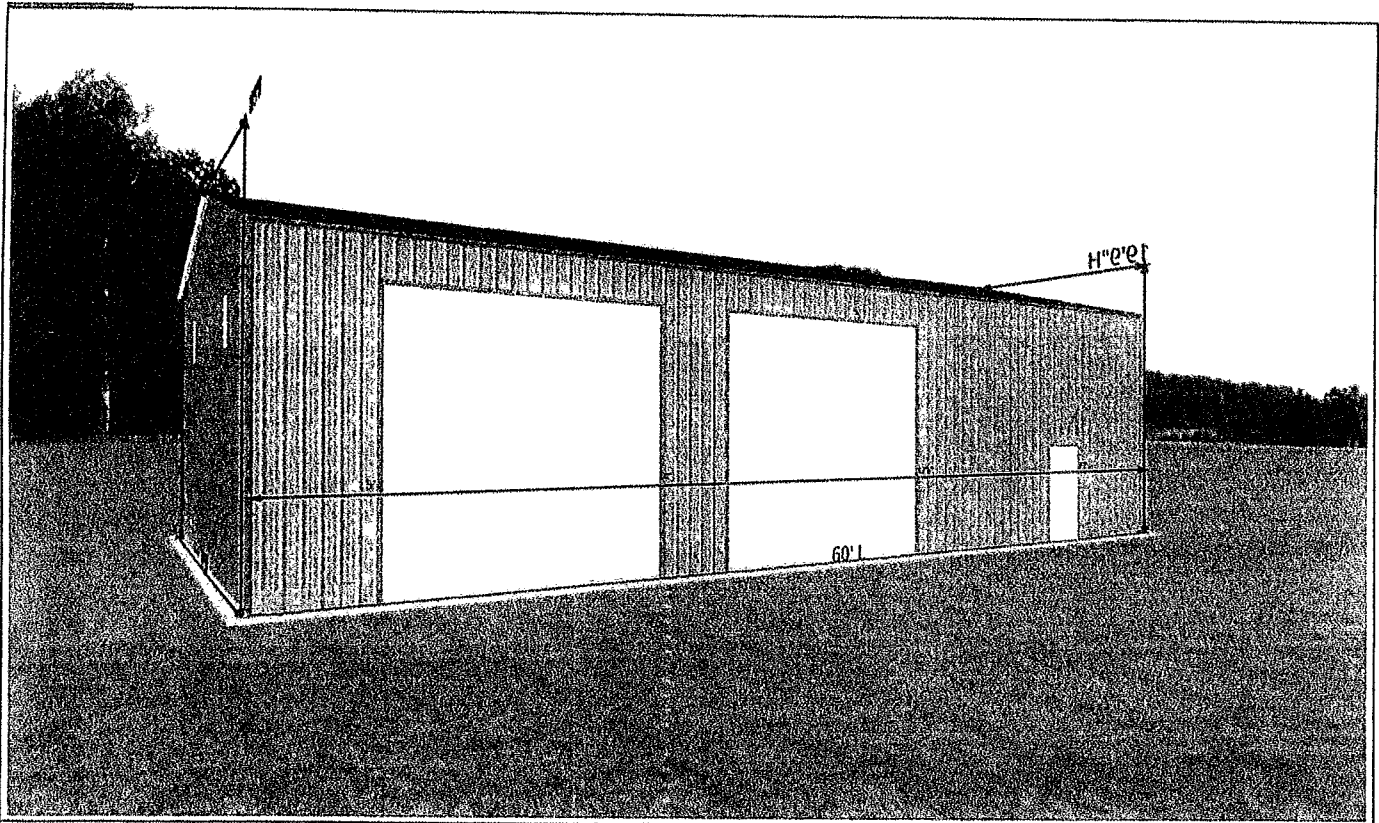
LEFT

BUILDING VIEW

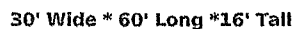


BACK

BUILDING VIEW



RIGHT

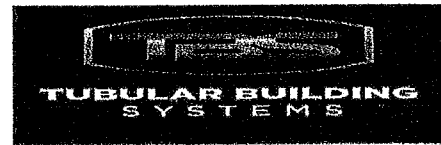


LEGENDS

- Garage Door
 Garage Door Frameout
 Walk in Door
 Walk in Door Frameout
 Windows
 Windows Frameout
 Open Wall
- Close Wall
 Distance
 Storage Length (Utility)
 Cupola

Corporate Office:
631 SE Industrial Circle
Lake City, FL 32056
Mailing: PO BOX 2254 Lake City, FL 32056

Main Number: 386-961-0006
Fax Number: 386-961-0008
tubularbuildingsystems@gmail.com



Sales Order Form

Buyers Name(s) Gary Terry (revised 04/02/2025) Date 12/19/2024
Address 582 SW Bluff Drive County Columbia Dealer BAM Lake City
City Fort White ST FL Zip 32038 Order Received & Verified By TBS
Phone 239-450-4087 Alternate _____
e-mail terryde33@gmail.com Cell _____

Installation Site (If different from above) _____ Terms of Sale ☒ Cash/ Check ☐ Financed ☐ Credit/Debit Card
Roof Style: ☐ Regular ☐ Boxed Eave ☒ Vertical NOTE: Frame 1ft shorter than roof length
Size Width: 30 Length: 61 Leg Height: 16
Installation ☐ Ground ☒ Concrete ☐ Asphalt ☐ Other Permits ☒ Yes ☐ No Power Available ☐ Yes ☒ No
Color Roof: Charcoal Sides: Ash Grey Trim: Charcoal

| | | | | | | |
|----|---|--|----------|-------------|--|----------------------|
| x | Base | <input type="checkbox"/> 5' OC - 140 MPH | Standard | \$11,990.00 | "J" Trim | |
| | Base | <input type="checkbox"/> 4' OC - 170 MPH | Optional | | Connection Fee: Side to Side | |
| 16 | Leg Height | | | \$5,190.00 | Manufacture discount | -\$7,956.00 |
| x | Enclose Both Sides vertical | | | \$6,340.00 | Miscellaneous: | |
| x | Enclose Both Ends Vertical | | | \$6,710.00 | Miscellaneous: | |
| | Vertical Sides | | | | Miscellaneous: | |
| | Vertical Ends | | | | 4' Center Option - Add 5% of the overall cost of the bl | |
| 1 | Standard 36" x 80" Walk-In Door - No Window | | | \$350.00 | A. Sales Total | \$32,824.00 |
| | Upgrade Door | <input type="checkbox"/> Diamond <input type="checkbox"/> 9 Lite | | | B. Sales Tax (A & B X Sales Tax Rate) | Rate 6.0% \$1,969.44 |
| 4 | Standard Window- 24" X 36" - Mill Finish | | | \$800.00 | C. Additional Tax Over \$5,000 (25,50,75) | \$75.00 |
| | Upgrade Window | <input type="checkbox"/> White Grid | | | D. Subtotal (A + B + C + D) | \$34,868.44 |
| 3 | Garage Door: Size (14x14) | <input type="checkbox"/> Chain Drive | | \$8,400.00 | E. Deposit (A & B X Deposit Rate) | Rate 15% \$4,923.60 |
| | Garage Door: Size (WXH) | <input type="checkbox"/> Chain Drive | | | F. Total Less Deposit (E - F) | \$29,944.84 |
| | Garage Door: Size (W'XH') | <input type="checkbox"/> Chain Drive | | | G. Plans - Site Specific / Wet Seal / Digital Marked Apply | \$0.00 |
| 4 | 19x31 Flood vents | | | \$1,000.00 | H. Lift Rental Fee / Material Handling Fee | \$0.00 |
| | Frameout - Door | | | | I. Labor Fee | \$0.00 |
| | Frameout- Garage Door: <input type="checkbox"/> Square <input type="checkbox"/> 45 Degree | | | | J. Balance Due To Tubular Building Systems | \$29,944.84 |
| | Header for Side Entrance | | | | K. Additional Money Down (Collect From Dealer) | |
| | Side Frameout - Square | | | | L. Collect Money From: <input type="checkbox"/> Dealer <input checked="" type="checkbox"/> Customer | \$29,944.84 |
| | Side Frameout- 45* (Plus Side Closed Price) | | | | *If Collecting From Dealer Collect K / L *If Collecting From Customer Collect L & then K from Dealer | |

SPECIAL INSTRUCTIONS: Revised for flood vents

Site Not Ready

Check 3054

Notice to Buyer: This contract includes cost of installation at the address of buyer stated above upon the receipt of the full purchase price.
The buyer is responsible for properly preparing the site for installation, obtaining any required permits and all other Terms and Conditions.
Buyer hereby acknowledges by his or her signature below to having read and understood, including without limitation, any conditions of site preparation, permits, warranties and additional charges and responsibilities. PAYMENT DUE AT TIME OF INSTALL.

Florida Installations are made by Tubular Building Systems, LLC. CGC 1533634

**SITE SPECIFIC ENGINEERING IS NON-REFUNDABLE 3% Merchant fee applies to all card transactions

**ALL CUSTOMERS WITH A REMAINING BALANCE OF \$15,000 OR MORE WILL BE REQUIRED TO PAY HALF OF THAT BALANCE @ THE TIME OF SCHEDULING

Tubular Building Systems
accepts the following for
payment:

Visa, Discover, Master Card,
American Express, Check, Cash &
Wire Transfer

Buyers Signature [Signature] Date 12/19/2024
Dealer Signature Lance Griffin Date 12/19/2024

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

60'7"

Basic Building
Dimension
to outside of Base Rail

60'

BUILDING SLAB

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

30'
Basic Building
Dimension
to outside of Base Rail

30'7"

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

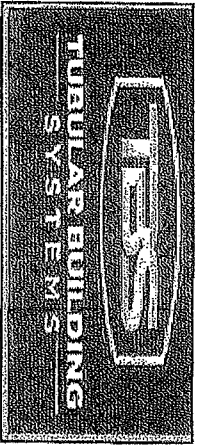
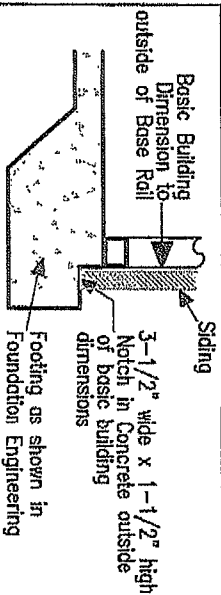
IMPORTANT - NOTES

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



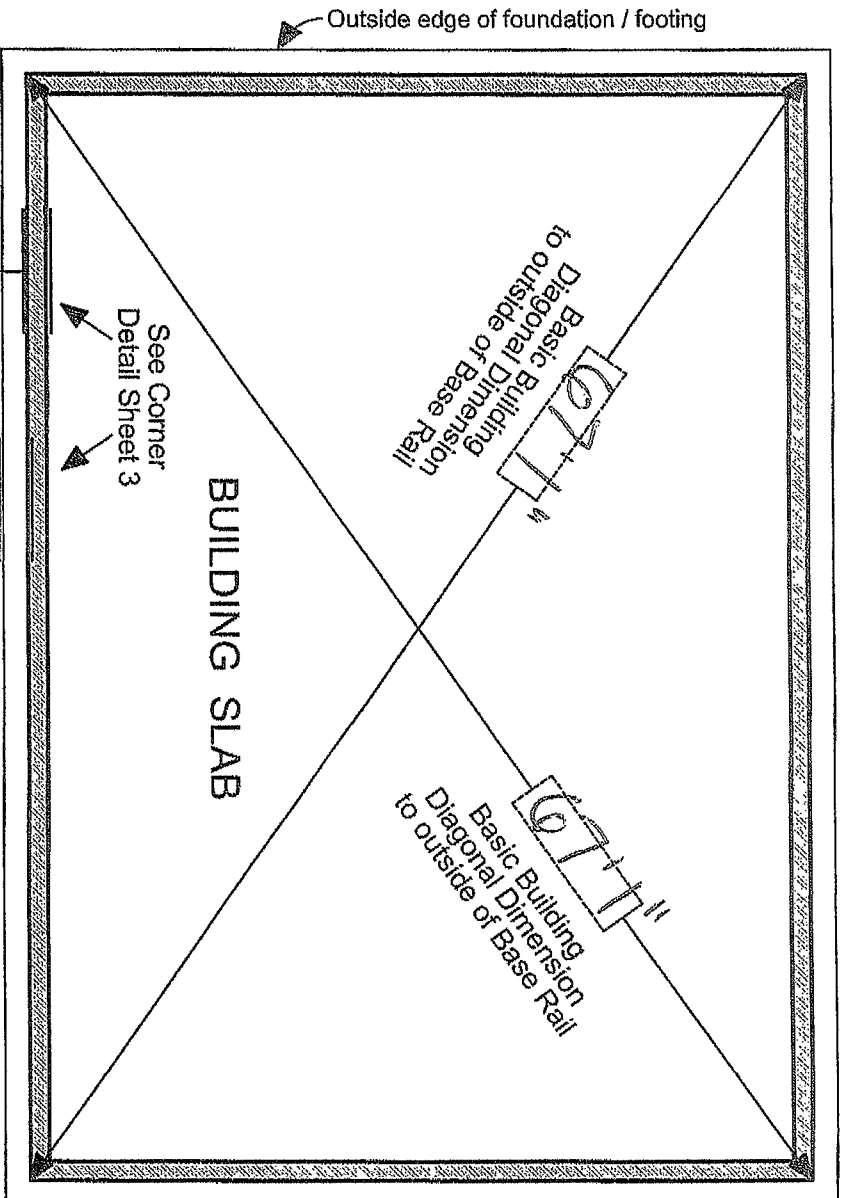
TYPICAL BUILDING FOUNDATION MEASUREMENTS

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

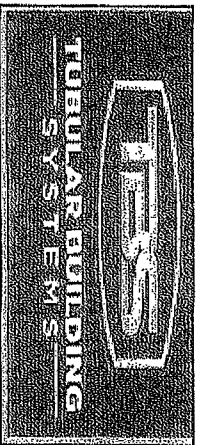
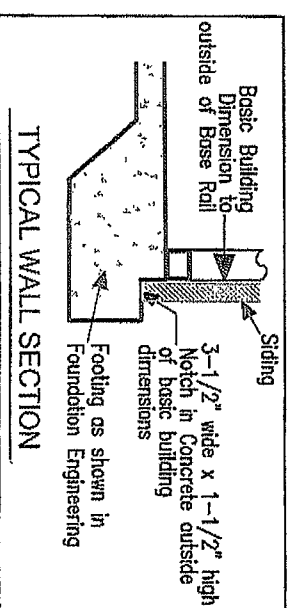


Building Base Rail

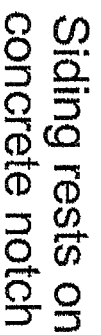
3-1/2" wide x 1-1/2" high Notch
in Concrete outside
of basic building
dimensions

TYPICAL BUILDING

FOUNDATION MEASUREMENTS DIAGONALS



Base Re.



dimensions

CORNER DETAIL



1. DESIGN IS FOR MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT FULLY ENCLOSED STRUCTURES.

2. APPLICABLE CODES, REGULATIONS, & STANDARDS:
 - A. 2023 FLORIDA BUILDING CODE (8TH EDITION)
 - B. 2024 INTERNATIONAL BUILDING CODE
 - C. ASCE 7-22: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
 - D. AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
 - E. ACI 318-19: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - F. TMS-602-6: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
 - G. AWS D1.1: STRUCTURAL WELDING
3. RISK CATEGORY: 1
4. EXPOSURE CATEGORY: C
5. DESIGN ULTIMATE WIND SPEED 135 TO 150 MPH (NOMINAL WIND SPEED 81 TO 116 MPH); MAXIMUM HURRICANE FORCE WIND SPEED 155 TO 180 MPH (NOMINAL WIND SPEED 117 TO 139 MPH); MAXIMUM REPEATABLE WIND SPEED 155 TO 180 MPH (NOMINAL WIND SPEED 117 TO 139 MPH)
6. DESIGN ULTIMATE WIND SPEED 155 TO 180 MPH (NOMINAL WIND SPEED 117 TO 139 MPH)
7. REPEATABLE WIND SPEED 155 TO 180 MPH (NOMINAL WIND SPEED 117 TO 139 MPH)

3. EXPOSURE CATEGORY: C

4. DEAD LOAD 10 PSF
5. LIVE LOAD = 10 PSF
6. SPECIFICATIONS APPLICABLE TO 39 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" 14 GAUGE U-BE STEEL (3) FLANGING WELDERS FOR VERTICAL PANELS, 39 GAUGE METAL PANELS SHALL BE FASTENED TO 13 GAUGE RAIL CHANNELS (UNLESS OTHERWISE NOTED).
7. OPTIONAL BASE RAIL ANCHORAGE MAY BE USED FOR LOW AND MUST BE USED FOR HIGH WIND SPEEDS.
8. FASTENERS CONSIST OF #12-14, 3-1/4" S.F. 1 DRILLING FASTENER (SFS), USE CONTROL SP4 WASHER WITH EXTERIOR FASTENING SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 4° (S-12 PITCH) OR LESS FASTENING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY
9. AVERAGE FASTENER SPACING ON CENTERS Along CHUTES OR PURLINS, AND POSTS, INTERIOR = 5' ON END = 6' (MAX).

10. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
SOIL SITE CLASS = D
RISK CATEGORY I/II/III
R 3.25 $\beta_e = 1.0$
 $\beta = 0.85$
 V CSW
Sd = 0.084 g
11. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE PAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES.
12. GROUND ANCHOR (SOIL NAILS) CONSIST OF #6 REBAR W/ WELDED NUTS 30" LONG IN SURTABLE SOIL CONDITIONS MAY BE USED FOR LOADS UP TO 8 KIPS PER LINEAL FOOT. INSTEAD OF NUTS, ANCHORS MAY BE USED FOR SURTABLE SOIL AND NOT BE USED IN INSURTABLE SOILS AS NOTED.
13. MIN. LAY 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 LAYING CONCRETE, TREAT THE ENTIRE SUBSURFACE AREA FOR TREATMENTS IN COMPLIANCE WITH THE DEC.
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 REAR DOORS, & -3/4" FOR OTHER EXTERIOR DOORS) BELOW THE TOP OF THRESHOLD.

NOTES AND SPECIFICATIONS

| PAGE NO. | DESCRIPTION |
|----------|---|
| 1 | NOTES AND SPECIFICATIONS |
| 2 | BOX EAVE FRAME RAFTER ENCLOSE BUILDING |
| 3 | BOW EAVE FRAME RAFTER ENCLOSE BUILDING/WIND PRESSURES |
| 4 | BASE PLATE AND FOUNDATION ANCHORAGE |
| 5 | BOX/BOW EAVE VERTICAL HOOF/SIDING OPTION |
| 6 | BOX/BOW EAVE RAFTER LEAN-TO OPTIONS |
| 7 | BOX EAVE RAFTER END WALL, SIDE WALL AND OPENING FRAMING |
| 8 | WENT AND END STEEL WALL DETAIL |
| 9 | OPTIONAL CONCRETE STRIP FOOTING |

| PRODUCT CATEGORY | SUB CATEGORY | MANUFACTURER | APPROVAL No. & DATE |
|-----------------------|------------------|--|---------------------------|
| STRUCTURAL COMPONENTS | ROOF DECK | CAPITAL METAL SUPPLY INC. 23 GA. CAPITAL RIB ROOF PANEL | F1201472-48 12/19/2023 |
| STRUCTURAL COMPONENTS | STRUCTURAL WALL | CAPITAL METAL SUPPLY INC. 29 GA. CAPITAL RIB WALL PANEL | F1201483-48 12/19/2023 |
| EXTERIOR DOORS | ROLL-UP | JANUS INTERNATIONAL GROUP LLC SERIES 3652 | FL44051-46 12/15/21 |
| EXTERIOR DOORS | ROLL-UP | JANUS INTERNATIONAL GROUP LLC SERIES 750 | F12145010-411 10/17/23 |
| EXTERIOR DOORS | ROLL-UP | JANUS INTERNATIONAL GROUP LLC SERIES 3100 | F1127654-46 10/12/20 |
| EXTERIOR DOORS | SHINGING | ELKIN DOOR AND METAL COMPANY SERIES 407 | F1179565-43 12/26/23 |
| WINDOWS | SINGLE HUNG | KUNBO, INC 9750 SH | FL9951-419 11/01/23 |
| WINDOWS | VERTICAL SLIDING | KUNBO INC 18004-45 | FL9951-419 11/01/23 |

DIGITAL CERTIFICATION NOTES

1. THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEAL REMAIN IN DIGITAL FORM. SHALL BE VERIFIED BY ELECTRONIC MEANS & PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED, AND SEALED.

2. THIS DOCUMENT HAS BEEN CREATED IN FLORIDA ENGINEERING LLC FOR FLORIDA BUILDING SYSTEMS ONLY. IT SHALL NOT BE REPRODUCED IN WHOLE OR PART WITHOUT THE WRITTEN CONSENT OF FLORIDA ENGINEERING LLC AND FLORIDA BUILDING SYSTEMS.

3. A REVISION, ADOPTION OR OTHER MARKING TO ANY OF THE INFORMATION CONTAINED HEREIN, INCLUDING FLORIDA ENGINEERING, LLC'S CERTIFICATION, & THESE PLANS ARE GENERIC AND DO NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT WHERE THE SITE CONDITIONS DEVIATE FROM WHAT HAS BEEN CALLED OUT ON THESE PLANS.

4. CONTRACTOR MUST NOT DEVIATE FROM THE CONDITIONS DETAILED ON THESE PLANS.

5. CONSTRUCTION SAFETY AT THE SITE IS THE CONTRACTOR'S RESPONSIBILITY.

Digitally signed by Richard E Walker
Date: 2024.01.16 10:25:52-05

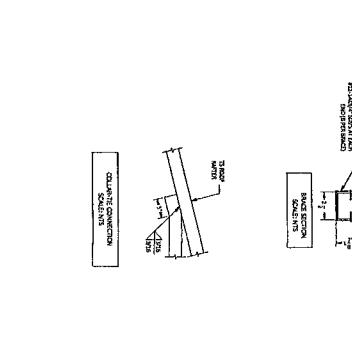
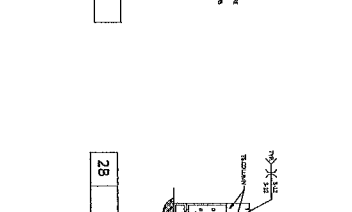
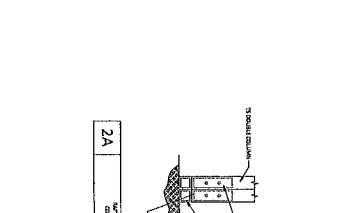
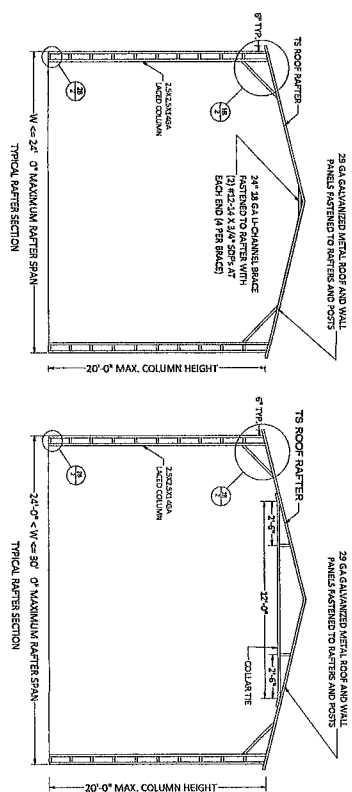
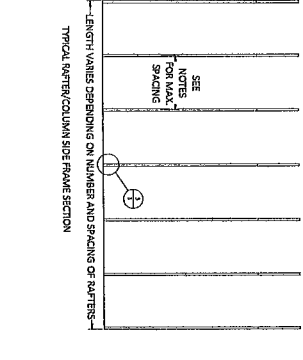
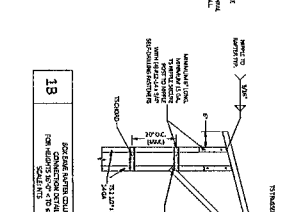
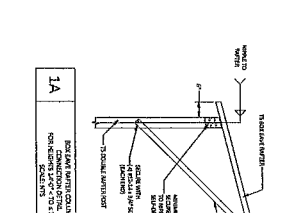
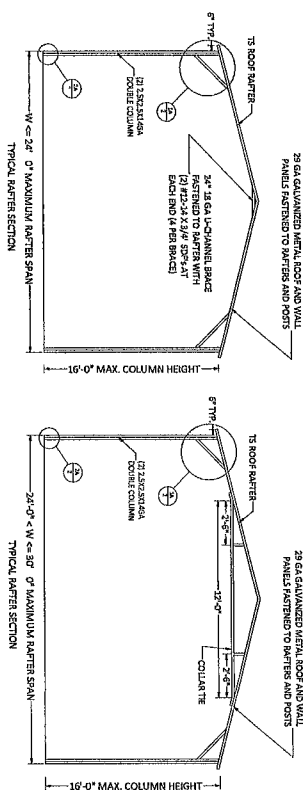
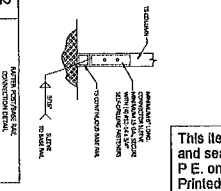
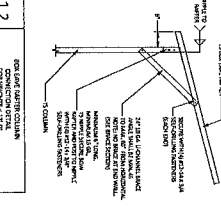
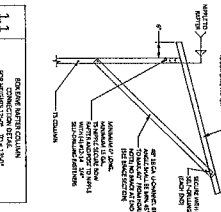
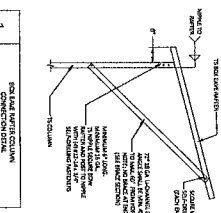
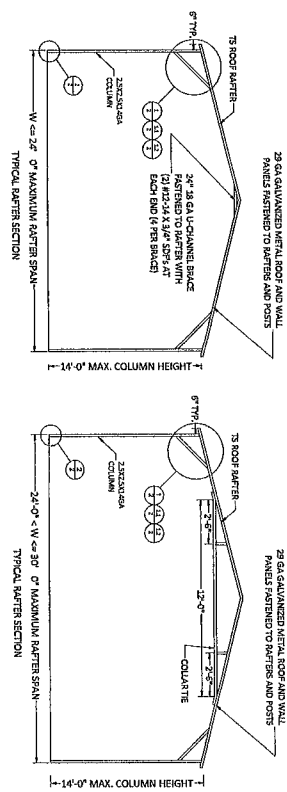
30' WIDE X 20' HIGH
ENCLOSED STRUCTURE



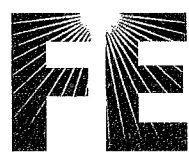
PROJECT NO 2322771-30-E

CA CERT #30782

| | |
|--------------|------------|
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| REVISION 1 | DATE |
| REVISION 2: | DATE |
| SCALE: | NTS |



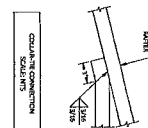
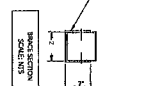
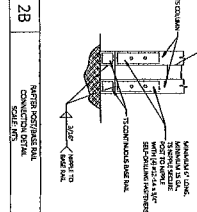
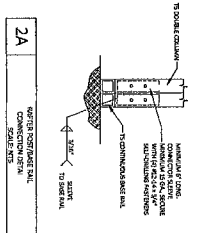
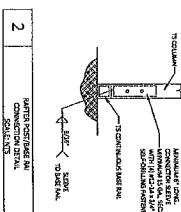
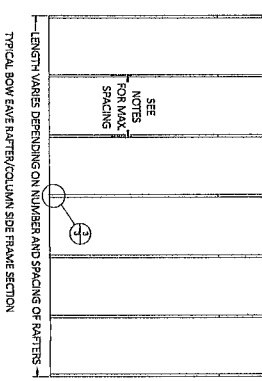
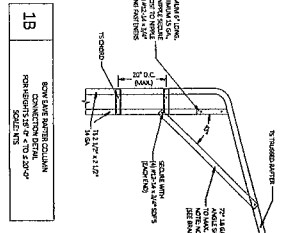
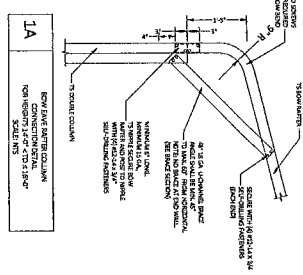
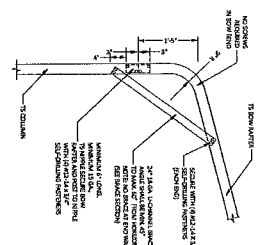
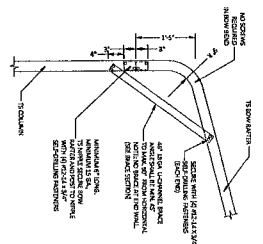
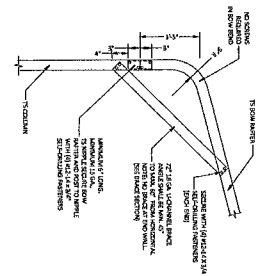
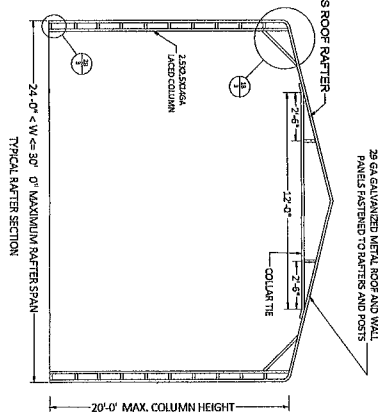
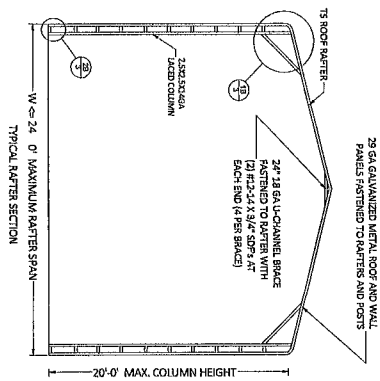
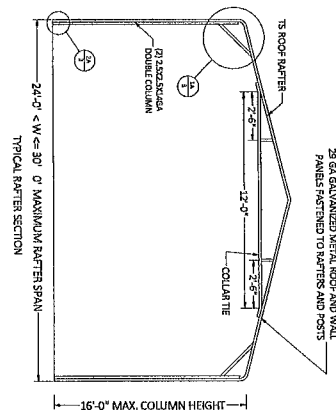
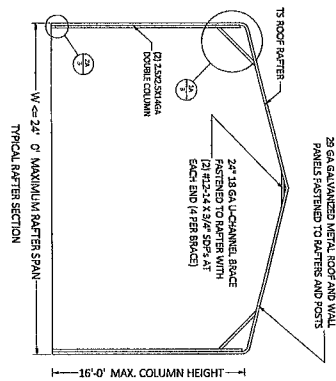
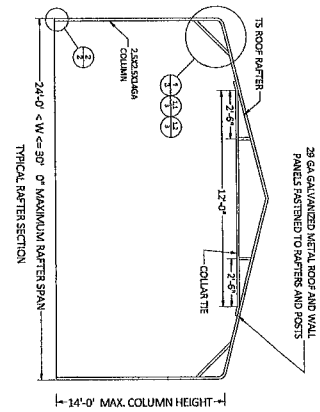
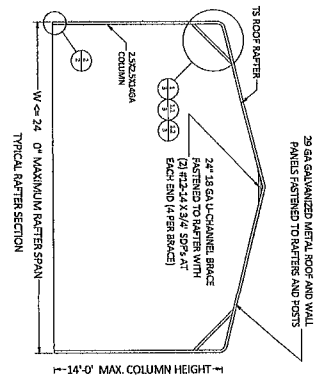
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PROJECT NO 2322771-30-E CA CERT #30762

| | | | |
|----------------------|------------|--|------|
| CONTRACTOR: | | TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE, LAKE CITY, FL 32025 | |
| PROJECT DESCRIPTION: | | 30' WIDE X 20' HIGH ENCLOSED STRUCTURE | |
| DESIGN DATE: | 12/14/2023 | PAGE | 2 |
| REVISION 1: | DATE | REVISION 2: | DATE |
| SCALE: | NTS | | |



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PROJECT NO 2322771-30-E

CA CERT #30782

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

PROJECT DESCRIPTION:

30' WIDE X 20' HIGH
ENCLOSED STRUCTURE

| | |
|--------------|------------|
| DESIGN DATE: | 12/14/2023 |
| REVISION 1 | DATE |
| REVISION 2: | DATE |
| SCALE: | NTS |
| | PAGE |
| | 3 |

BASE RAIL ANCHORAGE OPTIONS FOR LOW AND HIGH WIND SPEED

GENERAL NOTES

CONCRETE

1. CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
2. PRIOR TO PLACING CONCRETE, THE ENTIRE SUBGRADE AREA FOR TENDERS IN CONTACT WITH THE EARTH OR UNPROTECTED FROM THE EARTH ON WEATHER, OTHERWISE 1-1/2 INCHES.
3. MINIMUM SOIL BEARING CAPACITY OF COMPACTED GRADES - 2000 PSF

COVERAGES OF THE REINFORCED STEEL

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI 308 - 3 INCHES WHERE THE CONCRETE IS POURED AGAINST AND TEMPORARY IN CONTACT WITH THE EARTH OR UNPROTECTED FROM THE EARTH ON WEATHER, OTHERWISE 1-1/2 INCHES.

REINFORCING STEEL

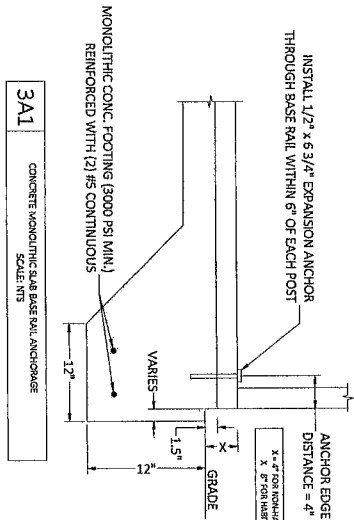
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A645 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A435 OR PERGRASS FIBER REINFORCEMENT

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 BEND, IS NOT LESS THAN SIX-TIME DIAMETERS.
4. MINIMUM REQUIRED LAP LENGTH SHALL NOT BE LESS THAN 57-TIME DIAMETERS.

HELIX ANCHOR NOTES

1. FOR VERY DENSE AND/OR CLAYEY SANDS, COARSE GRAVEL, AND COBBLES, CALICHE, PRE-CASTED SLITS AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT
2. FOR COAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT
3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SLITS AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT
4. FOR LOOSE TO MEDIUM DENSE COARSE SANDS, FIRM TO STIFF CLAYS AND MEDIUM TO FIRM SILT CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT
5. FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SLITS, ALLUVAL FILL USE MINIMUM (2) 8" HELICES WITH MINIMUM 60 INCH EMBEDMENT

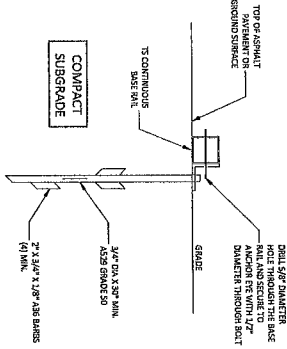
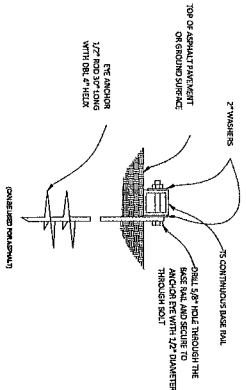


| WIND SPEED | WALL HEIGHT | MIN. ANCHOR EMBEDMENT |
|---------------|--------------|-----------------------|
| UP TO 30 MPH | UP TO 10'-0" | 5'-0" |
| 31 TO 35 MPH | UP TO 10'-0" | 5'-0" |
| 36 TO 40 MPH | UP TO 10'-0" | 5'-0" |
| 41 TO 45 MPH | UP TO 10'-0" | 5'-0" |
| 46 TO 50 MPH | UP TO 10'-0" | 5'-0" |
| 51 TO 55 MPH | UP TO 10'-0" | 5'-0" |
| 56 TO 60 MPH | UP TO 10'-0" | 5'-0" |
| 61 TO 65 MPH | UP TO 10'-0" | 5'-0" |
| 66 TO 70 MPH | UP TO 10'-0" | 5'-0" |
| 71 TO 75 MPH | UP TO 10'-0" | 5'-0" |
| 76 TO 80 MPH | UP TO 10'-0" | 5'-0" |
| 81 TO 85 MPH | UP TO 10'-0" | 5'-0" |
| 86 TO 90 MPH | UP TO 10'-0" | 5'-0" |
| 91 TO 95 MPH | UP TO 10'-0" | 5'-0" |
| 96 TO 100 MPH | UP TO 10'-0" | 5'-0" |

1/2" CAST-IN ANCHORS
ASTM F1554 GR. 36
MIN. EDGE DISTANCE = 1.5"

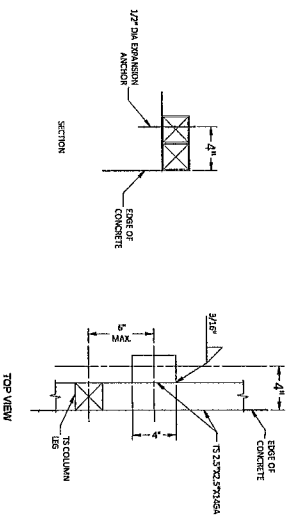
3A2 CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE
SCALE: NTS

3B GROUND BASE HELIX ANCHORAGE
SCALE: NTS



3C ASPHALT BASE ANCHORAGE (TYPE 9 BASE DRIVE ANCHOR)
SCALE: NTS

3D TYPICAL ANCHOR DETAIL WITH BASE RAIL 5' FROM EDGE OF CONCRETE
SCALE: NTS



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10:25:56-0500



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PROJECT NO 2322771-30-E

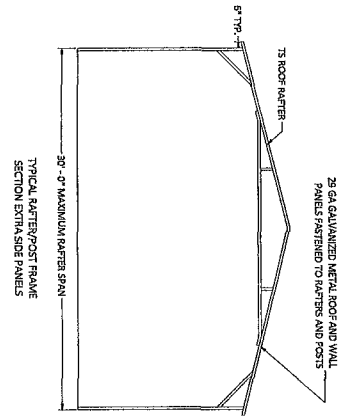
CA CERT #30782

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

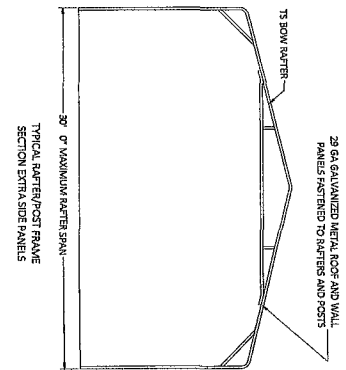
PROJECT DESCRIPTION:
**30' WIDE X 20' HIGH
ENCLOSED STRUCTURE**

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| REVISION 2 DATE: | |
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| PAGE: | 4 |

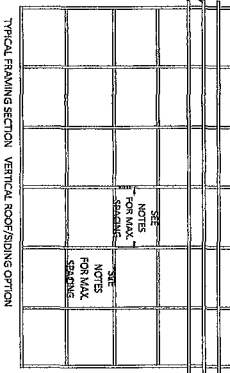
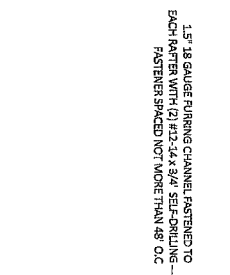
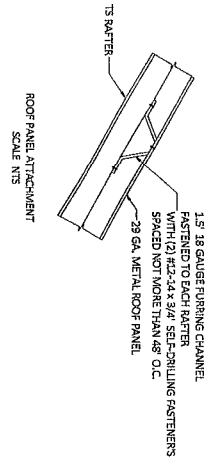
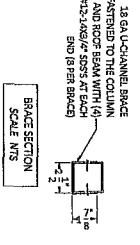
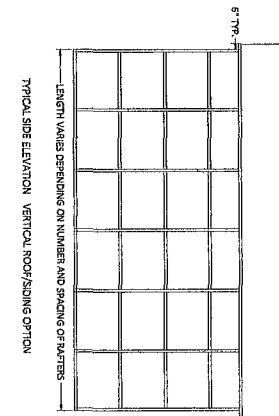
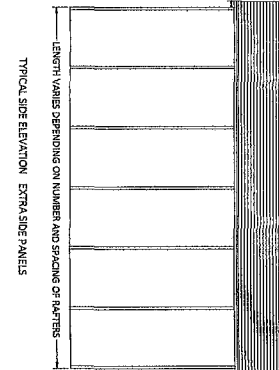
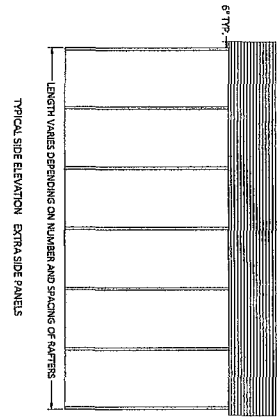
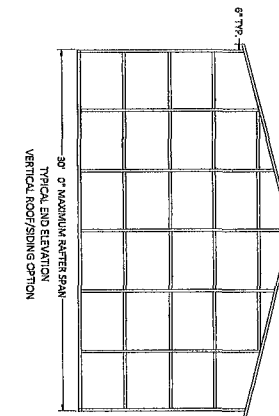
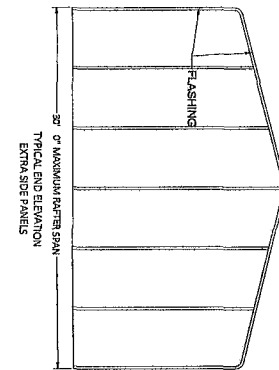
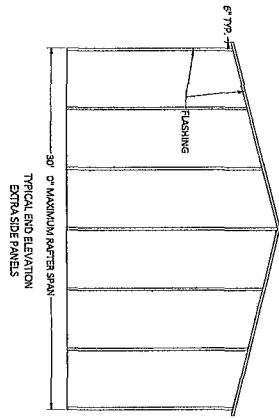
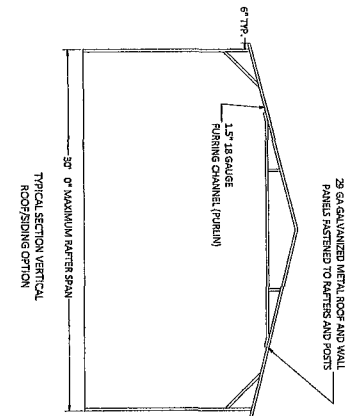
BOX EAVE RAFTER HORIZONTAL SIDE PANEL OPTION



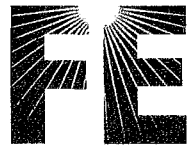
BOW RAFTER GABLE END OPTION



BOX EAVE RAFTER VERTICAL ROOF OPTION



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PROJECT NO. 2322771-30-E

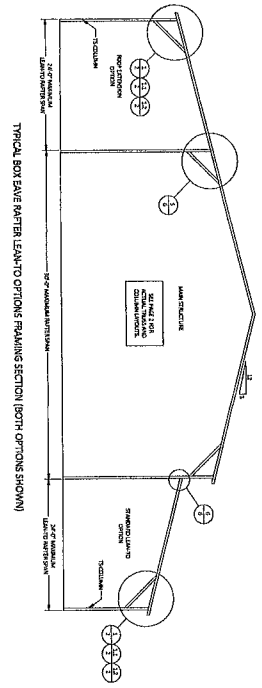
CA CERT #30782

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

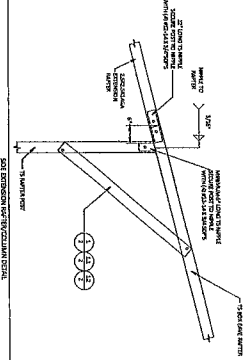
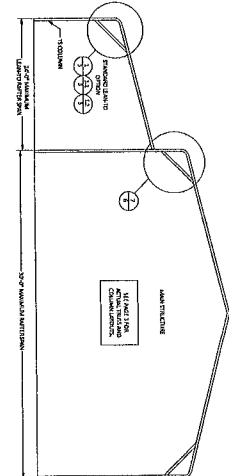
PROJECT DESCRIPTION:
 30' WIDE X 20' HIGH
 ENCLOSED STRUCTURE

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| REVISION 1 DATE: | |
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| SCALE: | NTS |
| PAGE | 5 |

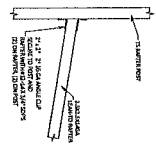
BOX RAFTER LEAN-TO OPTIONS



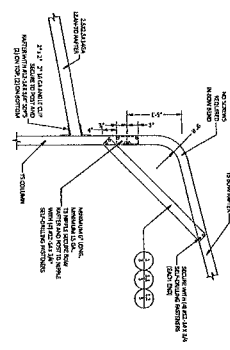
BOW RAFTER LEAN-TO OPTIONS



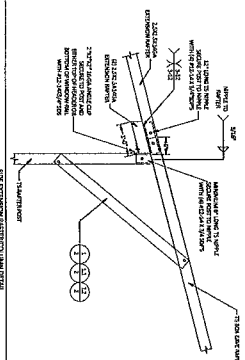
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FOR EXTENSION RAFTERS SHOWN W/4'-0" OF THE MAIN RAFTER ON THE OTHER END OF THE RAFTER IS PER DETAIL 12A.
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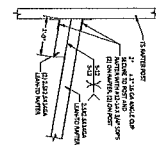
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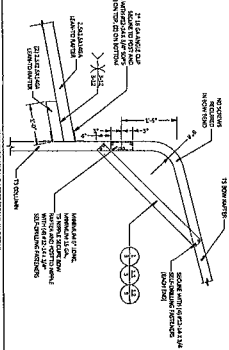
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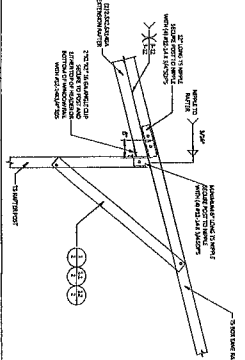
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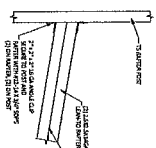
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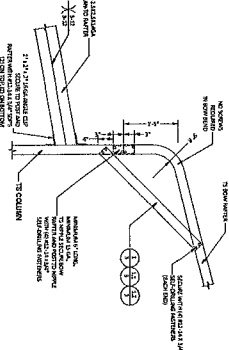
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5C
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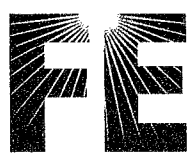


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7C
BOW RAFTER LEAN-TO OPTIONS FRAMING SECTION
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FOR EXTENSION RAFTERS SHOWN W/4'-0" W/4'-0" OF THE MAIN RAFTER ON THE OTHER END OF THE RAFTER IS PER DETAIL 12A.

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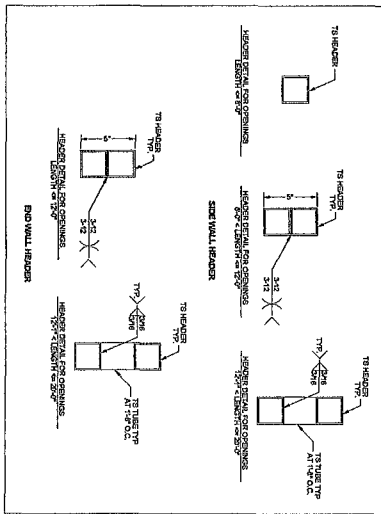
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PROJECT NO 2322771-30-E CA CERT #30782

| | | | |
|--|--|-------------|--|
| CONTRACTOR: | | DESIGNATOR: | |
| TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE, LAKE CITY, FL 32025 | | 1214/2023 | |
| PROJECT DESCRIPTION: | | DATE | |
| 30' WIDE X 20' HIGH ENCLOSED STRUCTURE | | REVISION 1 | |
| SCALE: NTS | | PAGE 6 | |

TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

— LENGTH = (NUMBER OF RAFTERS + 1) X SPACING OF RAFTERS —
 BACKING = 5/8" FOR WIND SPEEDS BETWEEN 75 MPH AND 100 MPH
 SPACING = 4'0" FOR WIND SPEEDS BETWEEN 100 MPH AND 110 MPH
 TYPICAL BOX EAVE RAFTER SIDE WALL FRAMING SECTION



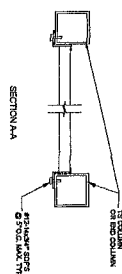
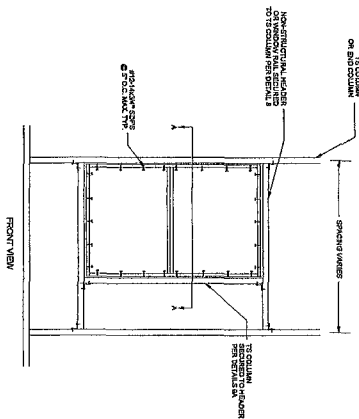
8A NON-STRUCTURAL HEADER OR WINDOW RAIL
TO POST CONNECTION DETAIL
SCALE: NTS

| | |
|----|---|
| 8B | DOUBLE HEADER OR WINDOW/RAIL TO POST CONNECTION DETAIL SCALE: NTS |
|----|---|

9A POST TO NON-STRUCTURAL HEADER BASE,
RAIL OR WINDOW RAIL CONNECTION DETAIL
SCALE: NTS

9B DOUBLE HEADER COLUMN CONNECTION
SCALE N.T.S.

POST TO DOUBLE HEADER BASE
10 RAIL OR WINDOW RAIL CONNECTION DETAILS
SCALE: NTS



| | |
|----|------------------------------------|
| 11 | WINDOW INSTALLATION DETAILS NTS |
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Walker
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CONTRACTOR:
TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE,
LAKE CITY, FL 32025

PROJECT DESCRIPTION:

30' WIDE X 20' HIGH
ENCLOSED STRUCTURE

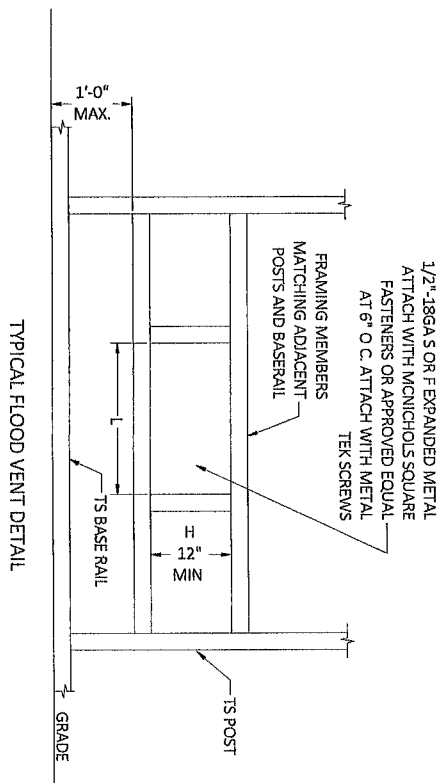


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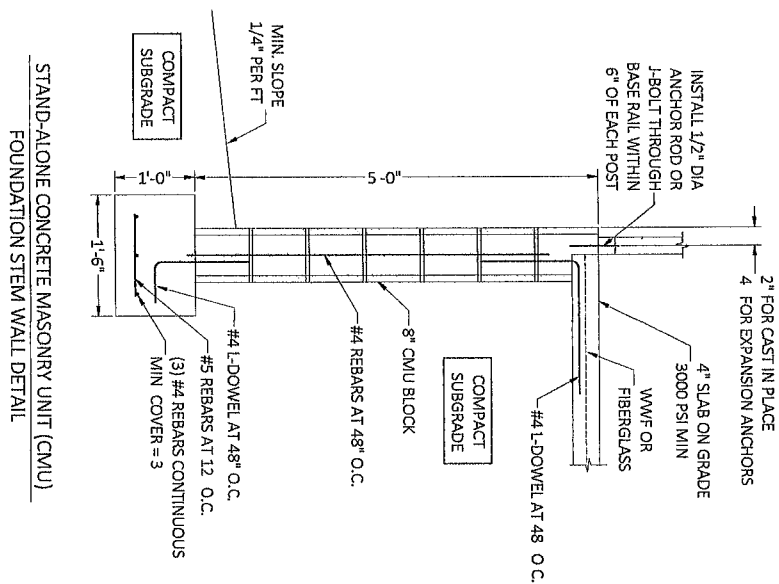
PROJECT NO 2322771-30-E

CA CERT #30782

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| PAGE 7 | |



- 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



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



Digitally signed by Richard E. Walker
DN: cn=Richard E. Walker, o=Professional Engineer, ou=State of Florida, email=REWALKER@FLA.PE.ORG, c=US
1026300-05700
2024.01.15



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

PROJECT NO. 2322771-30-E

CA CERT #30782

CONTRACTOR.

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

PROJECT DESCRIPTION:

**30' WIDE X 20' HIGH
ENCLOSED STRUCTURE**

DESIGN DATE: 12/14/2023

REVISION 1 DATE

REVISION 2 DATE

SCALE: NTS

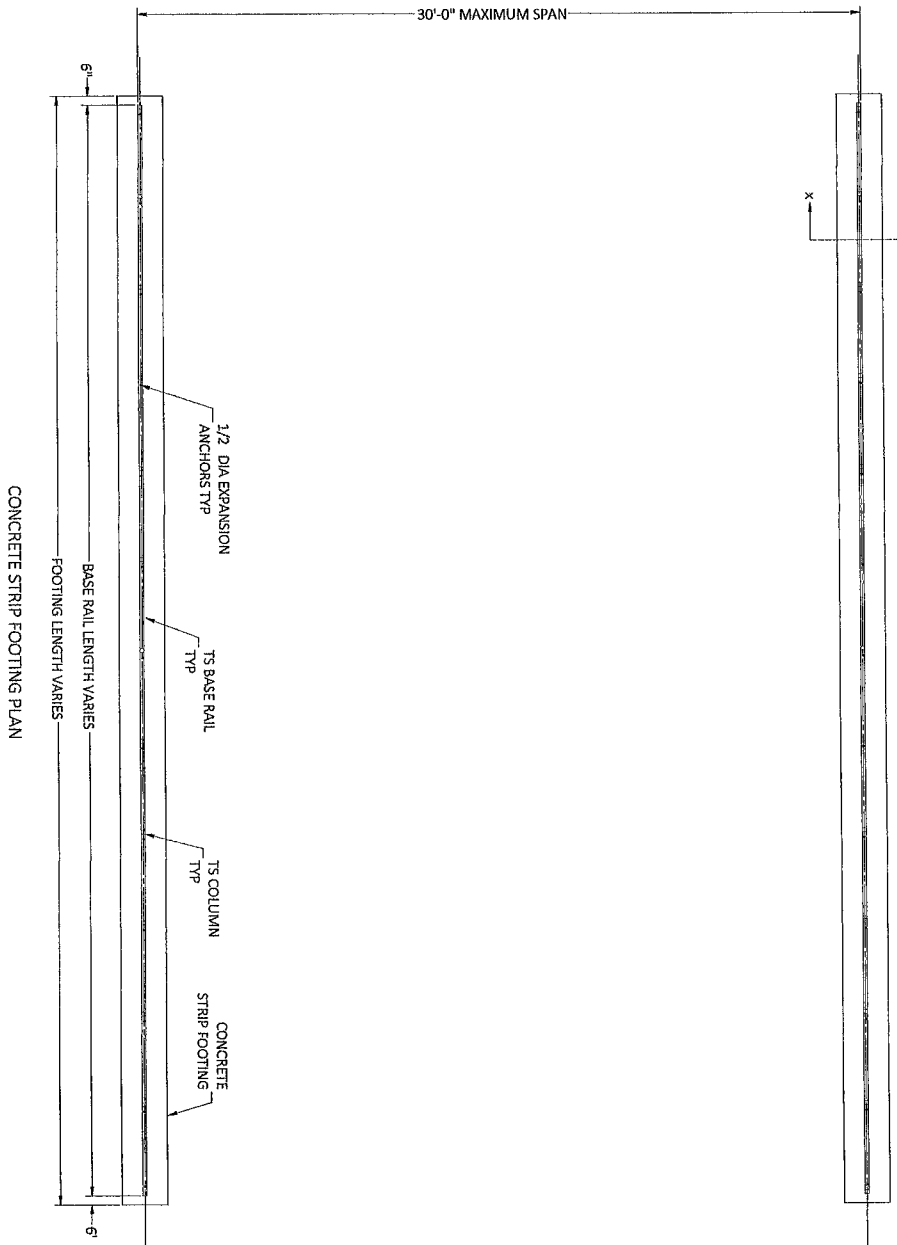
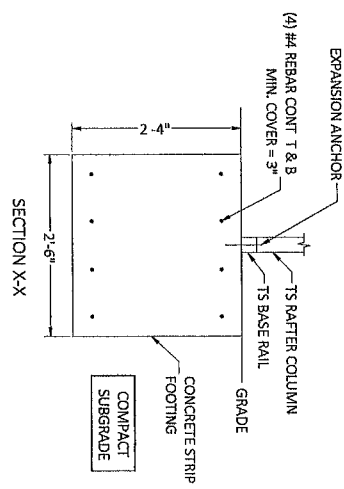
GENERAL NOTES
CONCRETE MONOLITHIC SLAB DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 1500 PSF

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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| PAGE: | 9 |