

GENERAL NOTES

1. DESIGN IS FOR MAXIMUM 40'-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 402-16: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
 - G. AWS D1.1: STRUCTURAL WELDING

2. RISK CATEGORY: I

3. 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.

4. DEAD LOAD = 10 PSF

5. LIVE LOAD = 10 PSF

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. OPTIONAL BASE RAIL ANCHORAGE MAY BE USED FOR LOW AND MUST BE USED FOR HIGH WIND SPEEDS.

8. 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.

9. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS, INTERIOR = 9" OR 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 Ie = 1.0
Sds = 0.087 g V = CsW
Sdi = 0.084 g

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

12. 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.

13. MIN. LAP REQUIREMENT FOR REBAR IN FOOTER IS 25".

14. SOIL TO BE COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY, AT OPTIMUM MOISTURE CONTENT, IN ACCORDANCE WITH ASTM D1557-93

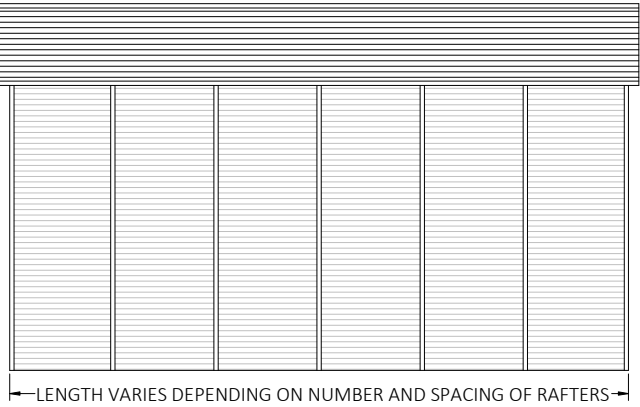
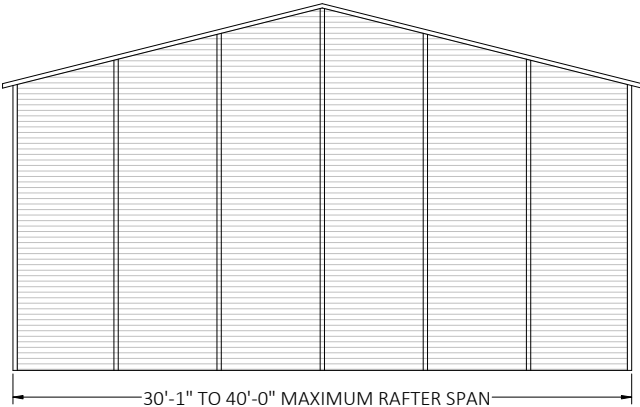
15. PRIOR TO PLACING CONCRETE, TREAT THE ENTIRE SUBSURFACE AREA FOR TERMITES IN COMPLIANCE WITH THE FBC.

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.

DRAWING INDEX

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2	BOX EAVE FRAME RAFTER ENCLOSED BUILDING
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5	BOX EAVE RAFTER LEAN-TO OPTIONS
6	BOX EAVE RAFTER END WALL, SIDE WALL AND OPENING FRAMING
7	VENT AND CMU STEM WALL DETAIL
8	OPTIONAL CONCRETE STRIP FOOTING

ENCLOSED METAL BUILDING DESIGN
MAXIMUM 40'-0" WIDE X 20'-0" EAVE HEIGHT
BOX EAVE FRAME



BOX EAVE FRAME RAFTER ENCLOSED BUILDING

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 10/13/2020
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAPITAL METAL SUPPLY, INC. 29 GA. CAPITAL RIB WALL PANEL	FL20148.2-R2 10/13/2020
EXTERIOR DOORS	ROLL-UP	JANUS INTERNATIONAL GROUP, LLC. SERIES 3652	FL14425.1-R6 12/15/21
EXTERIOR DOORS	ROLL-UP	JANUS INTERNATIONAL GROUP, LLC. SERIES 750	FL21450.10-R8 12/13/22
EXTERIOR DOORS	ROLL-UP	JANUS INTERNATIONAL GROUP, LLC. SERIES 3100	FL12765.4-R6 10/12/20
EXTERIOR DOORS	SWINGING	ELIXIR DOOR AND METAL COMPANY SERIES 407	FL17996.5-R2 02/28/21
WINDOWS	SINGLE HUNG	KINRO, INC 9750 SH	FL993.5-R18 05/20/19
WINDOWS	VERTICAL SLIDING	KINRO, INC 18000-R VS	FL993.8-R18 08/11/20

DIGITAL CERTIFICATION NOTES:

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

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

3. ALTERATIONS, ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE FLORIDA ENGINEERING LLC'S CERTIFICATION.

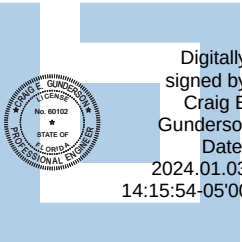
4. THESE PLANS ARE GENERIC AND DO NOT PROVIDE INFORMATION FOR A SITE-SPECIFIC PROJECT WHERE THE SITE CONDITIONS DEVIATE FROM WHAT HAS BEEN CALLED OUT ON THESE PLANS.

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

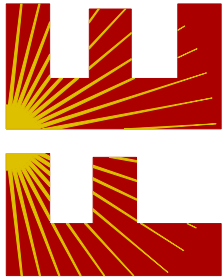
6. CONSTRUCTION SAFETY AT THE SITE IS THE CONTRACTOR'S RESPONSIBILITY.



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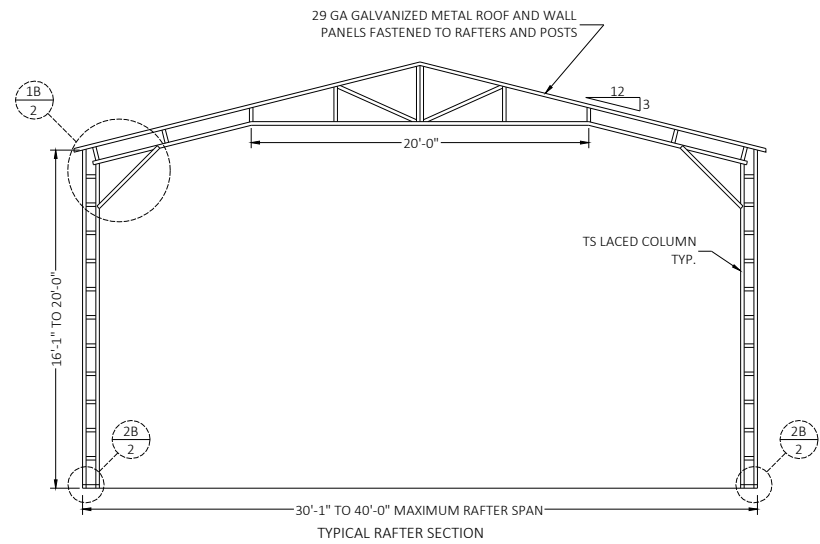
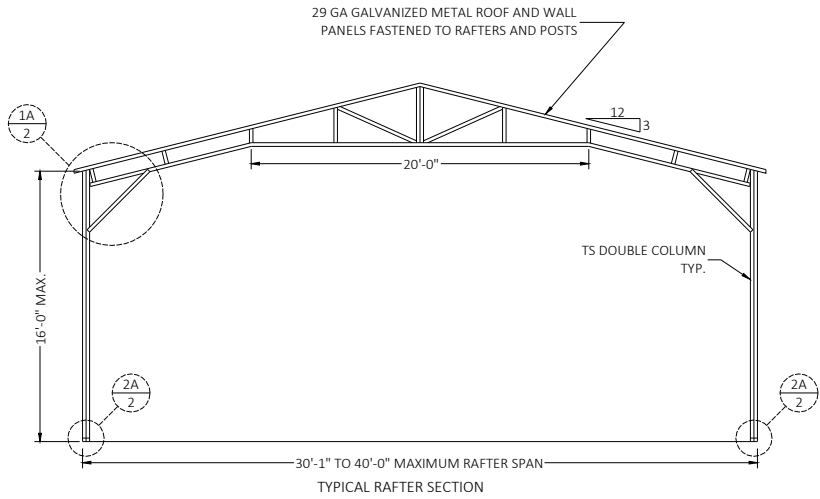
CA CERT. #30782

PROJECT NO. 2322771-40-E

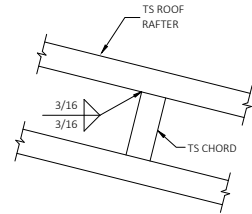
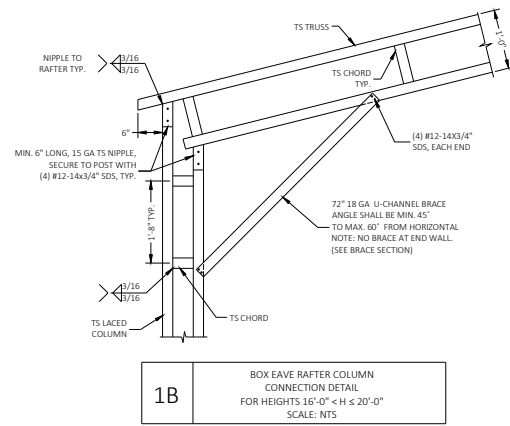
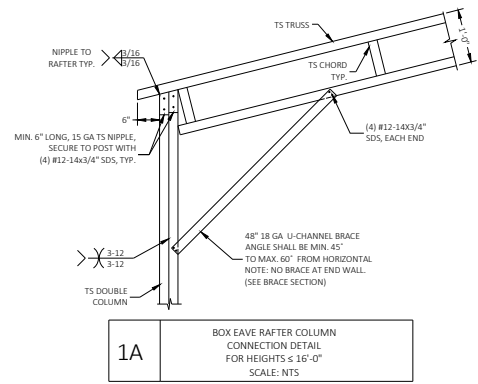
CONTRACTOR:
TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE,
LAKE CITY, FL 32025

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

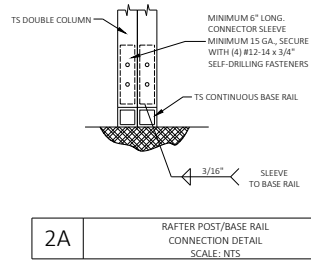
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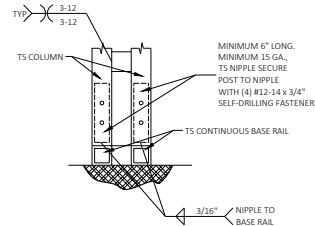
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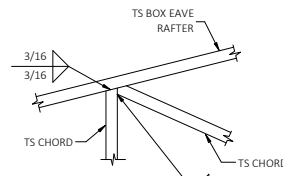
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RAFTER TO CHORD CONNECTION
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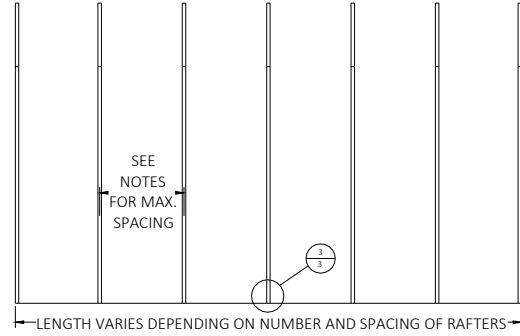
2A
RAFTER POST/BASE RAIL
CONNECTION DETAIL
SCALE: NTS



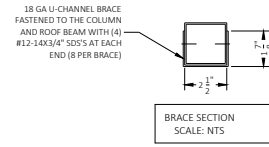
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RAFTER POST/BASE RAIL
CONNECTION DETAIL
SCALE: NTS



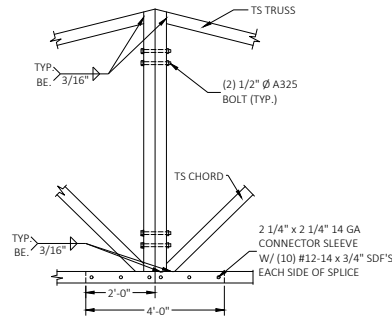
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TRUSS POST AND CHORD
TO RAFTER CONNECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAME SECTION

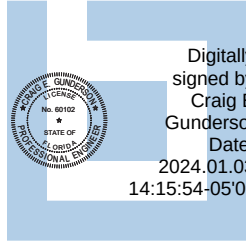


BRACE SECTION
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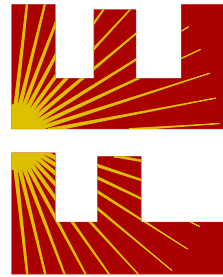


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SPLICE CONNECTION
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CA CERT. #30782

PROJECT NO. 2322771-40-E

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

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

DESIGN DATE: 12/14/2023
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PAGE :
2

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, TREAT THE ENTIRE SUBSURFACE AREA FOR TERMITES IN COMPLIANCE WITH THE FBC.
3. MINIMUM SOIL BEARING CAPACITY OF COMPACTED GRADE= 2000 PSF

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.

REINFORCING STEEL:

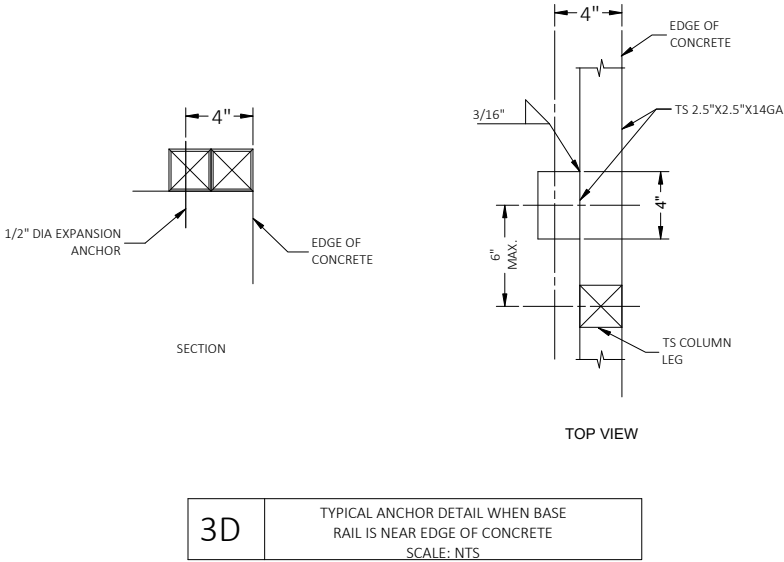
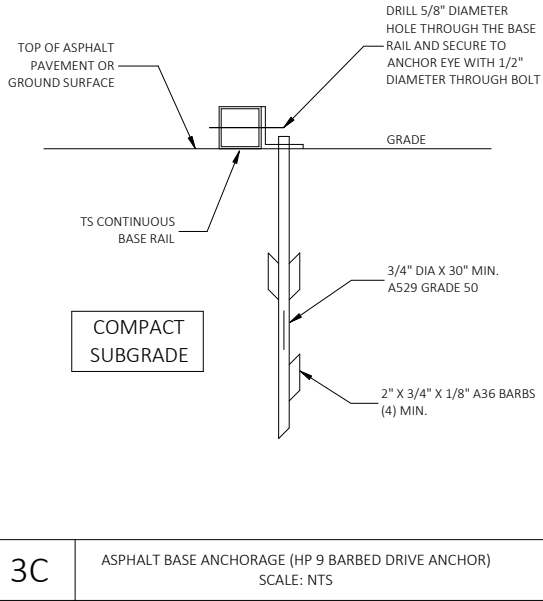
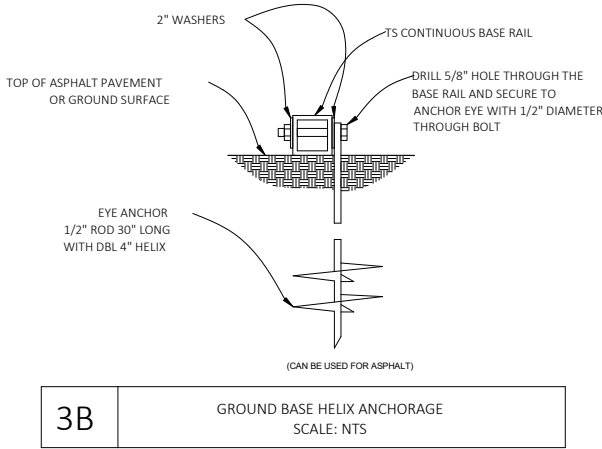
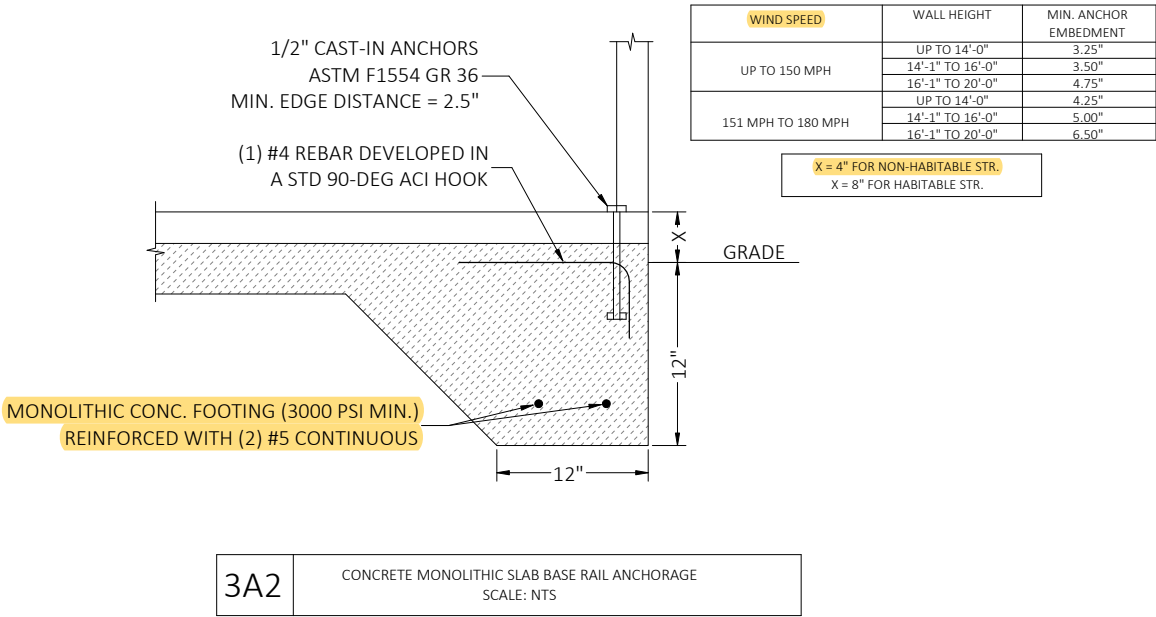
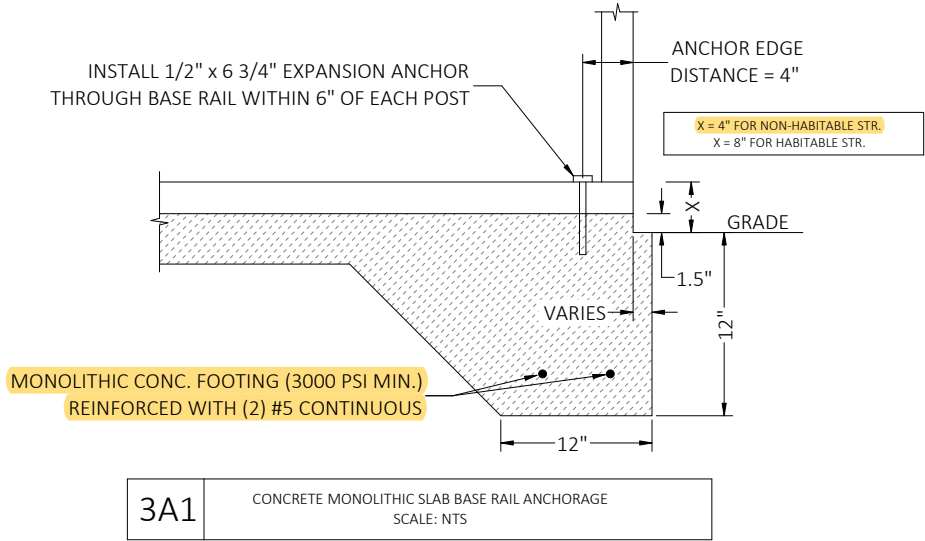
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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.
4. MINIMUM REQUIRED LAP LENGTH SHALL NOT BE LESS THAN 57-BAR DIAMETERS.

HELIX ANCHOR NOTES

1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT.
2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT.
3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS 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 SILTS ALLUVIAL FILL USE MINIMUM (2) 6" HELICES WITH MINIMUM 50 INCH EMBEDMENT.
5. FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL USE MINIMUM (2) 8" HELICES WITH MINIMUM 60 INCH EMBEDMENT.

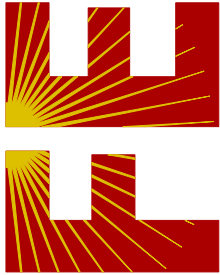


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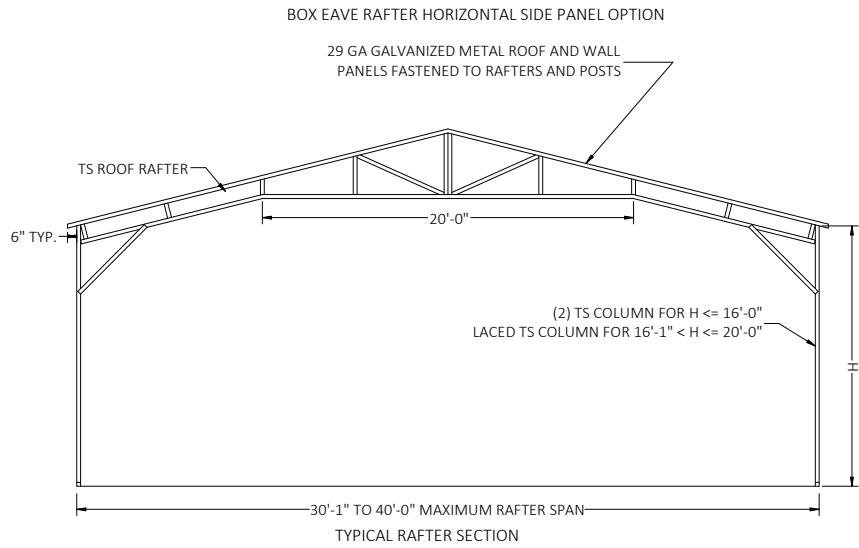
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PROJECT NO. 2322771-40-E

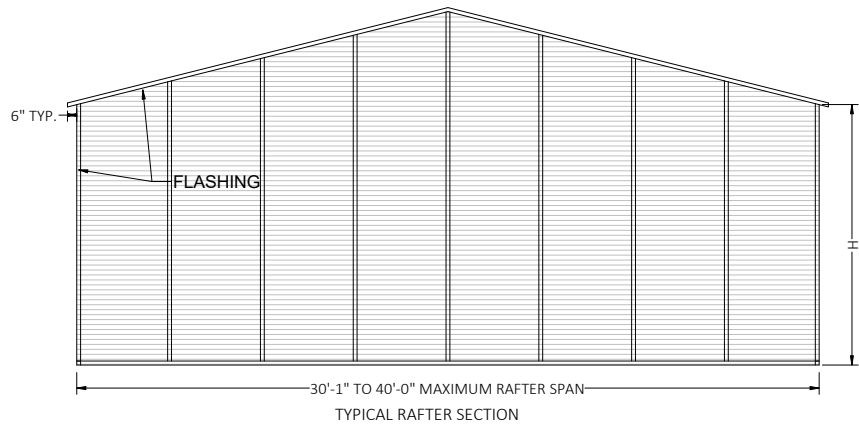
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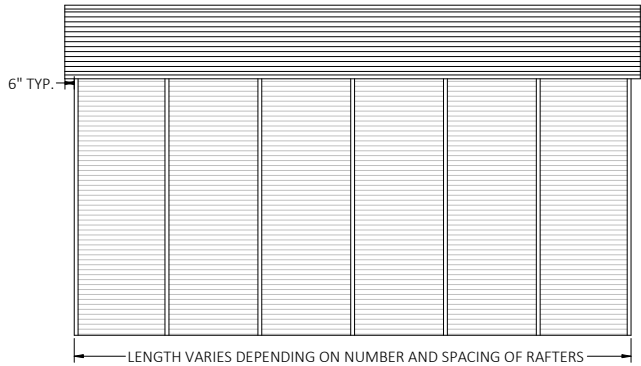
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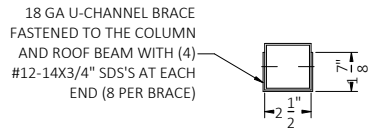
TYPICAL RAFTER/POST FRAME SECTION
EXTRA SIDE PANELS



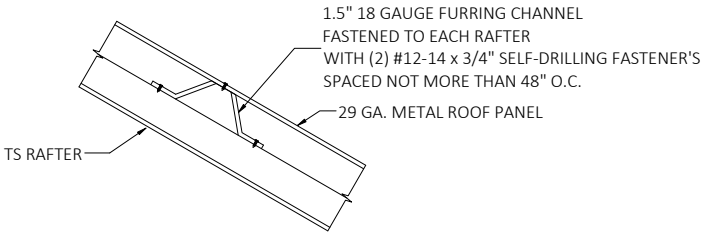
TYPICAL END ELEVATION
EXTRA SIDE PANELS



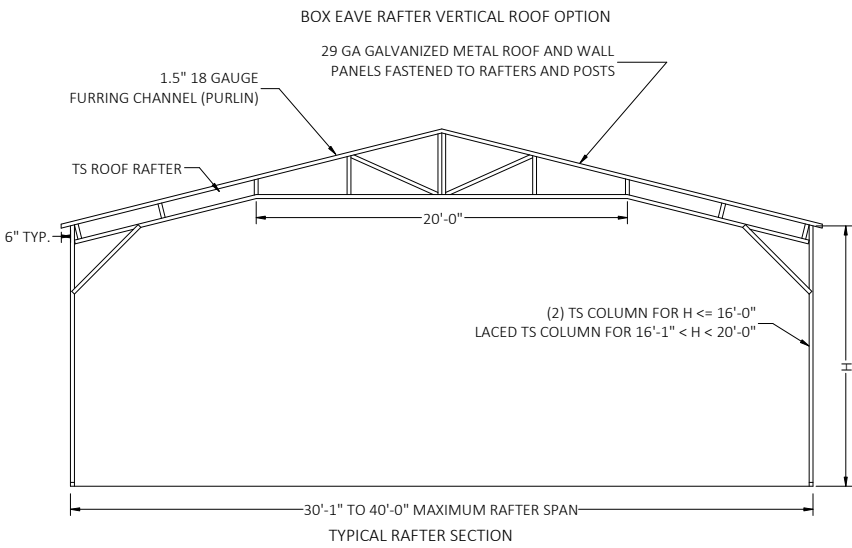
TYPICAL SIDE ELEVATION - EXTRA SIDE PANELS



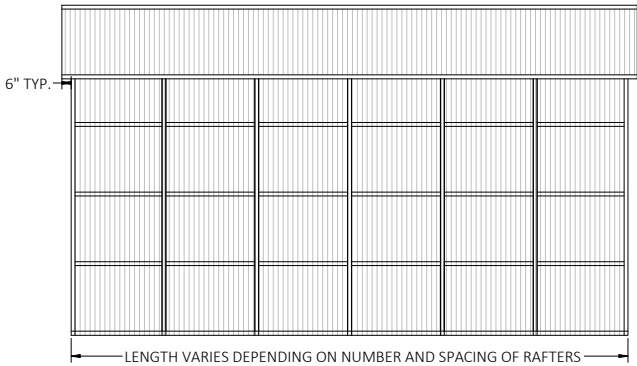
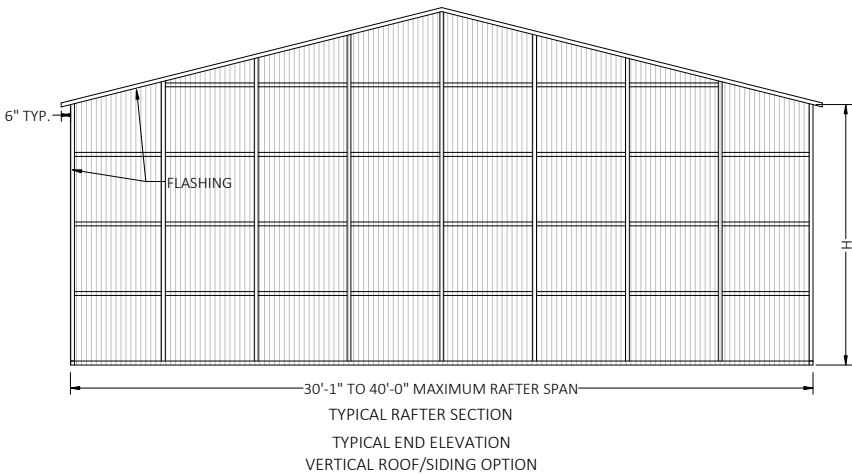
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ROOF PANEL ATTACHMENT
SCALE: NTS

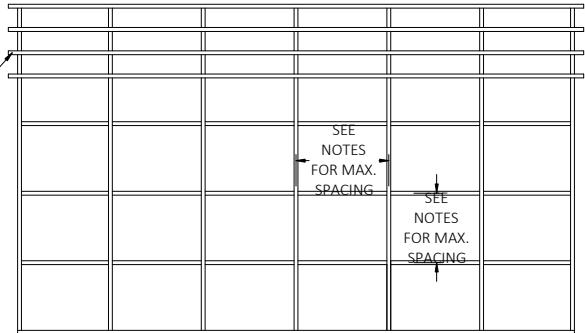


TYPICAL RAFTER/POST FRAME SECTION
EXTRA SIDE PANELS



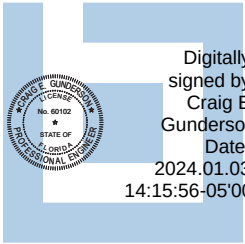
TYPICAL SIDE ELEVATION - VERTICAL ROOF/SIDING OPTION

1.5" 18 GAUGE FURRING CHANNEL FASTENED TO
EACH RAFTER WITH (2) #12-14 x 3/4" SELF-DRILLING
FASTENER SPACED NOT MORE THAN 48" O.C

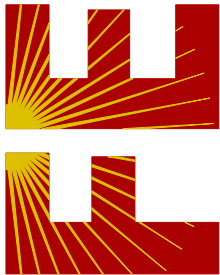


TYPICAL FRAMING SECTION - VERTICAL ROOF/SIDING OPTION

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CA CERT. #30782

PROJECT NO. 2322771-40-E

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

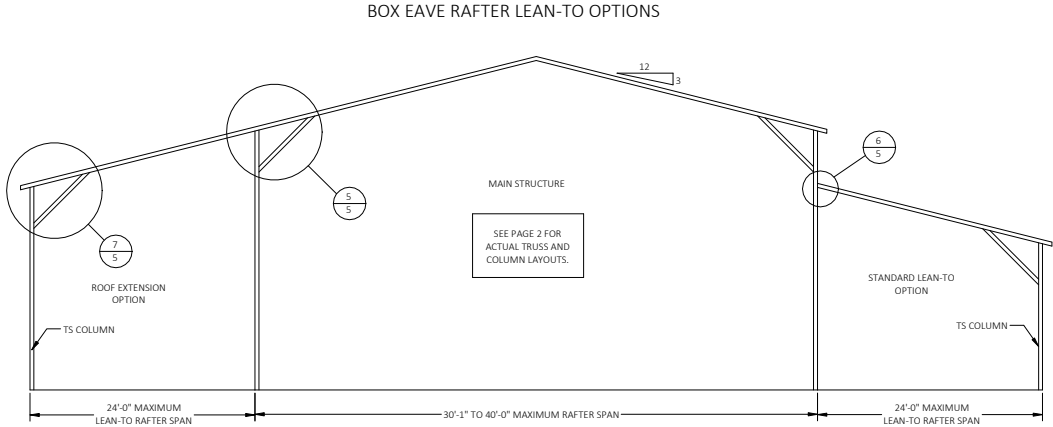
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ENCLOSED STRUCTURE

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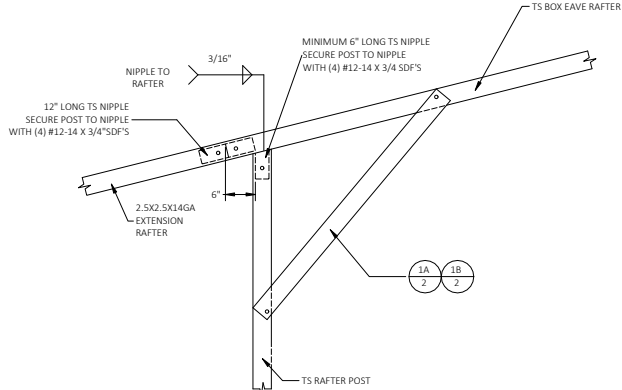
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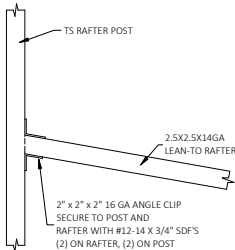
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)



5A

FOR EXTENSION RAFTER SPANS $W' \leq 12'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7A/5.
FOR EXTENSION RAFTER SPANS $W' \leq 13'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7B/5.
FOR EXTENSION RAFTER SPANS $W' \leq 15'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7C/5.

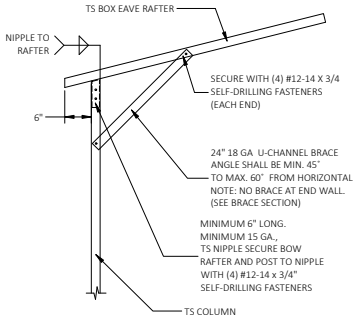
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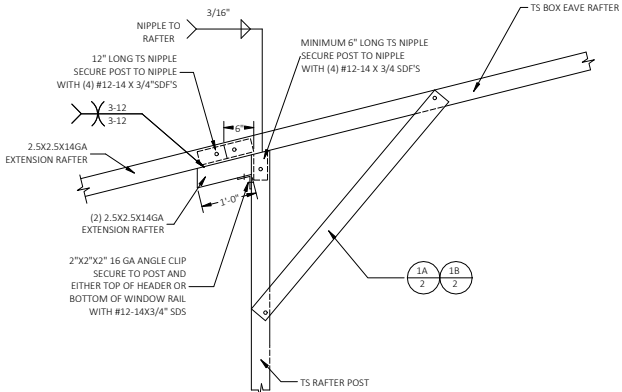
FOR LEAN-TO RAFTER SPANS $W' \leq 12'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7A/5.
FOR LEAN-TO RAFTER SPANS $W' \leq 13'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7B/5.
FOR LEAN-TO RAFTER SPANS $W' \leq 15'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7C/5.

SCALE: NTS



7A

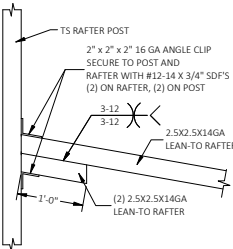
BOX EAVE RAFTER COLUMN CONNECTION DETAIL
24" BRACE
SCALE: NTS



5B

FOR EXTENSION RAFTER SPANS $12'-0" < W' \leq 16'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7A/5.
FOR EXTENSION RAFTER SPANS $13'-0" < W' \leq 18'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7B/5.
FOR EXTENSION RAFTER SPANS $15'-0" < W' \leq 19'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7C/5.

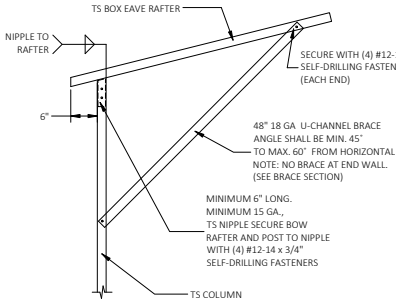
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6B

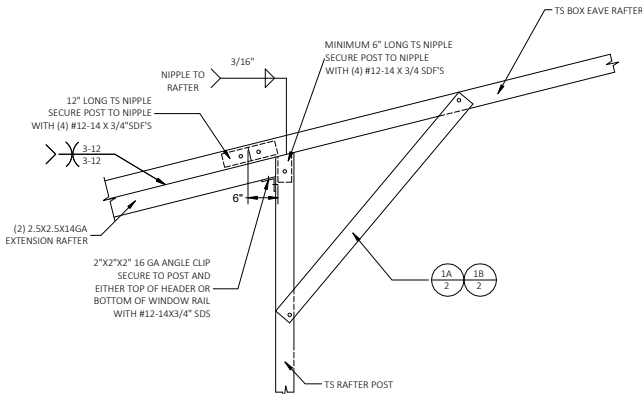
FOR LEAN-TO RAFTER SPANS $12'-0" < W' \leq 16'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7A/5.
FOR LEAN-TO RAFTER SPANS $13'-0" < W' \leq 18'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7B/5.
FOR LEAN-TO RAFTER SPANS $15'-0" < W' \leq 19'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7C/5.

SCALE: NTS



7B

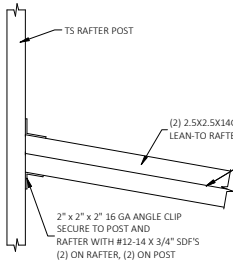
BOX EAVE RAFTER COLUMN CONNECTION DETAIL
48" BRACE
SCALE: NTS



5C

FOR EXTENSION RAFTER SPANS $16'-0" < W' \leq 24'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7A/5.
FOR EXTENSION RAFTER SPANS $18'-0" < W' \leq 24'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7B/5.
FOR EXTENSION RAFTER SPANS $19'-0" < W' \leq 24'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7C/5.

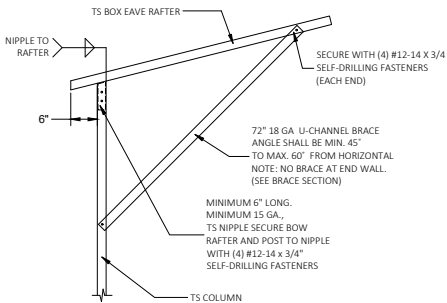
SCALE: NTS



6C

FOR LEAN-TO RAFTER SPANS $16'-0" < W' \leq 24'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7A/5.
FOR LEAN-TO RAFTER SPANS $18'-0" < W' \leq 24'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7B/5.
FOR LEAN-TO RAFTER SPANS $19'-0" < W' \leq 24'-0"$, IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7C/5.

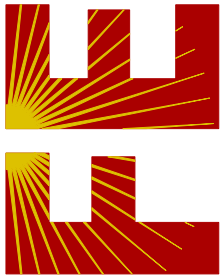
SCALE: NTS



7C

BOX EAVE RAFTER COLUMN CONNECTION DETAIL
72" BRACE
SCALE: NTS

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



CA CERT. #30782

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

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

DESIGN DATE: 12/14/2023

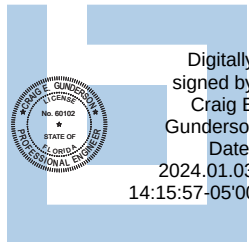
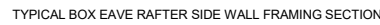
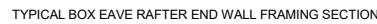
REVISION 1: DATE

REVISION 2: DATE

SCALE: NTS

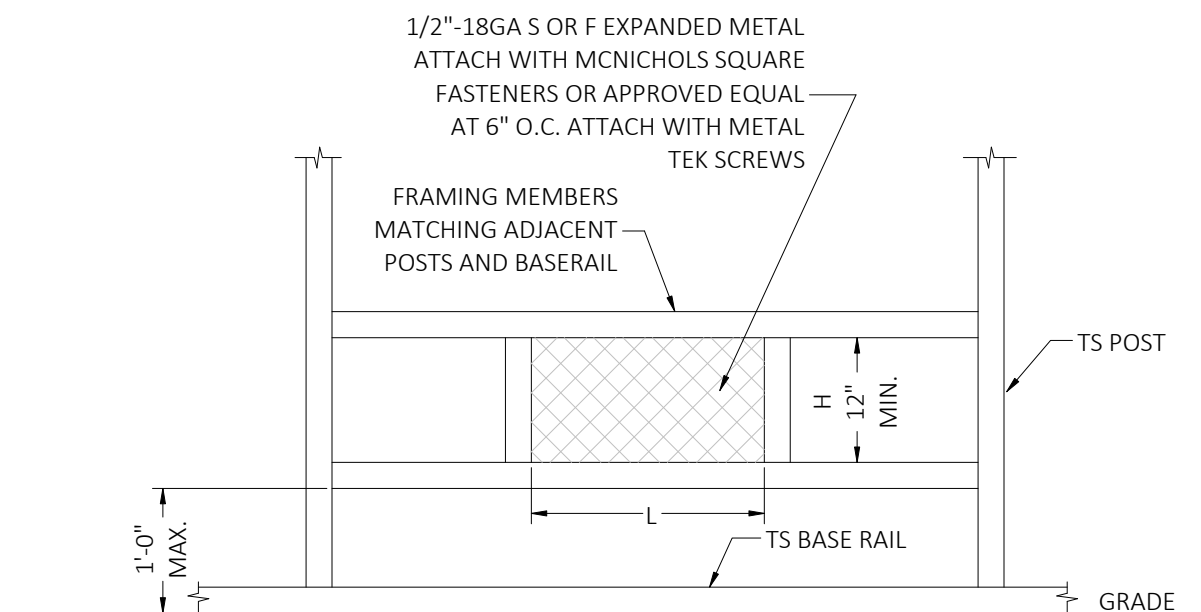
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PROJECT NO. 2322771-40-E

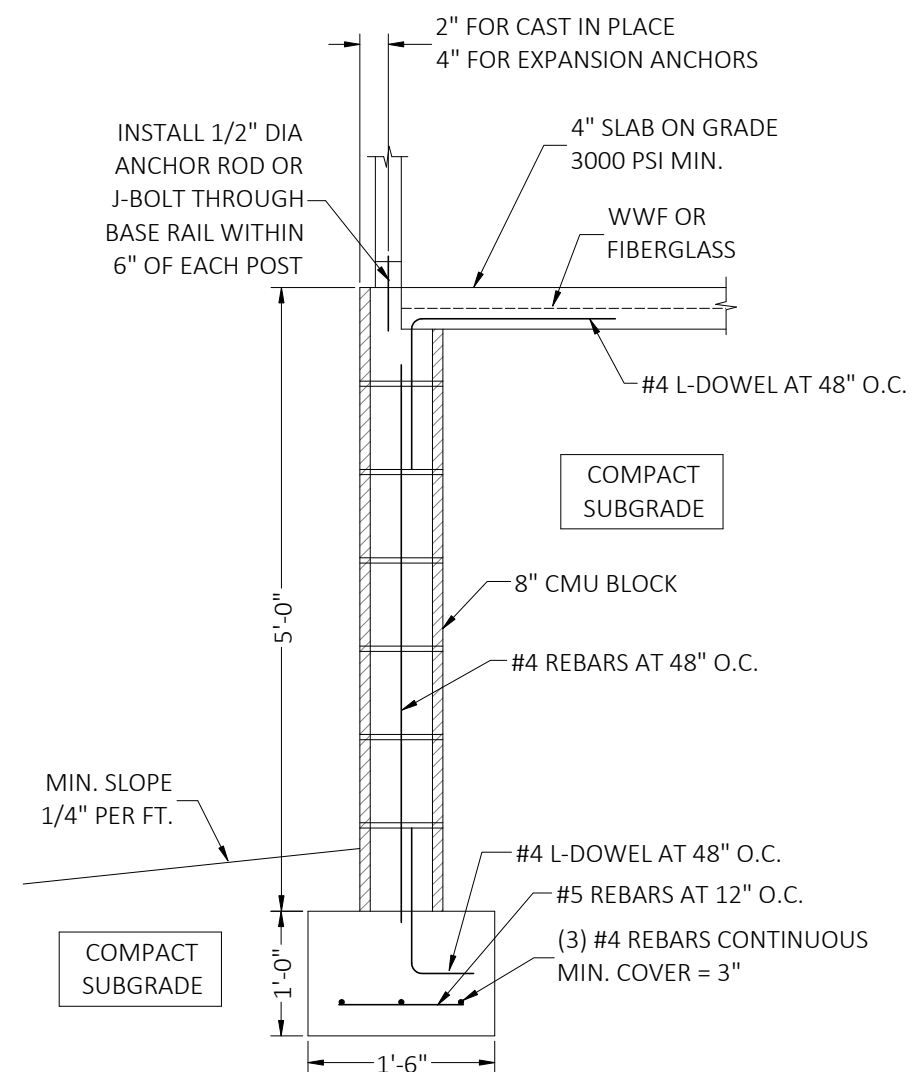
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TYPICAL FLOOD VENT DETAIL

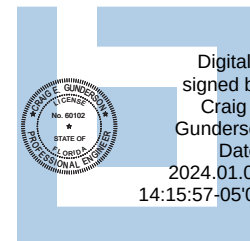
NOTES:

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 = 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.

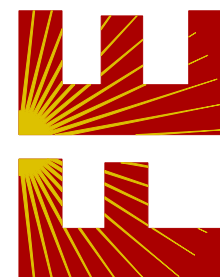


STAND-ALONE CONCRETE MASONRY UNIT (CMU)
FOUNDATION STEM WALL DETAIL

This item has been digitally signed and sealed by Craig E. Gunderson, 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.



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PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980



PROJECT NO. 2322771-40-E

CONTRACTOR:

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

PROJECT DESCRIPTION:

40' WIDE X 20' HIGH
ENCLOSED STRUCTURE

DESIGN DATE:	12/14/2023
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REVISION 1: DATE

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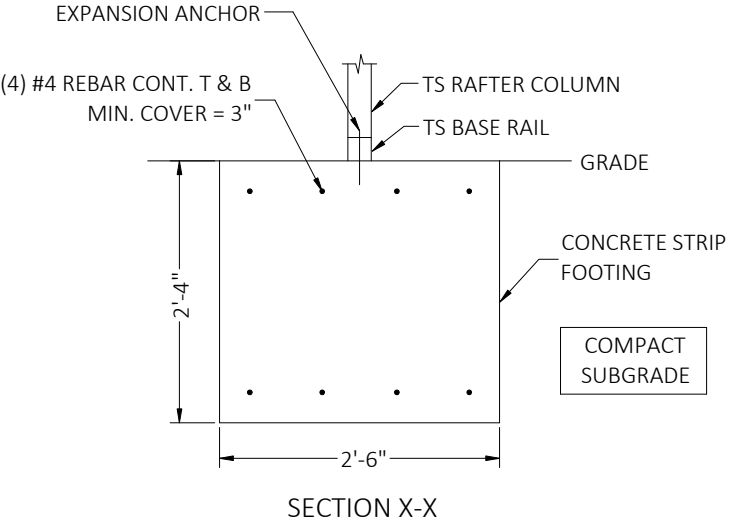
PAGE :

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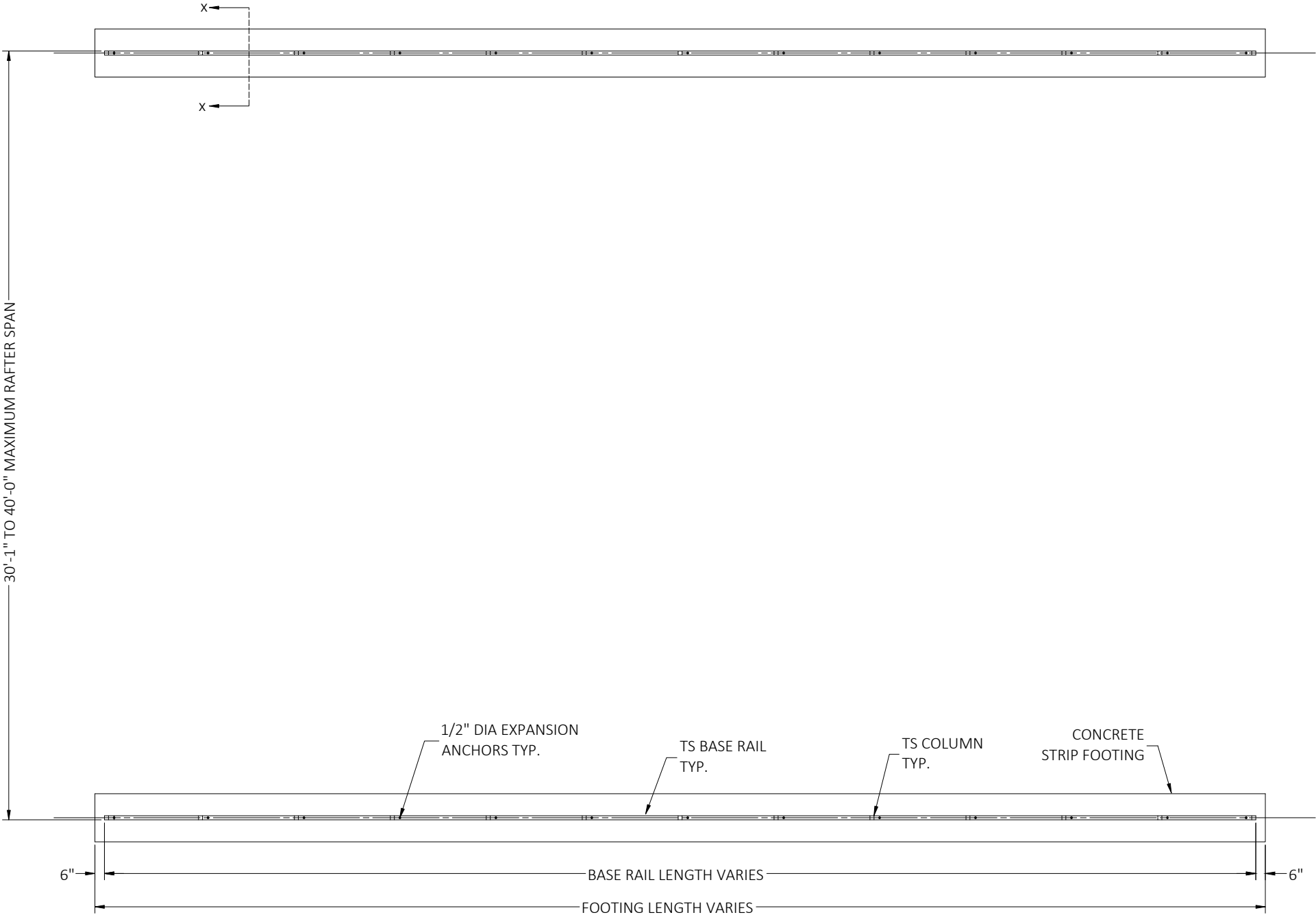
GENERAL NOTES
CONCRETE MONOLITHIC SLAB DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 1500 PSF.

CONCRETE
MINIMUM 28-DAY SPECIFIED COMPRESSIVE STRENGTH = 3000 PSI

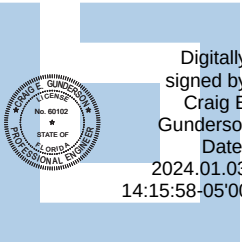
- REINFORCING STEEL
1. TURNDOWN REINFORCING STEEL = ASTM A615 GRADE 60
 2. SLAB REINFORCEMENT = WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
 3. REINFORCING STEEL COVER = 3" WHERE CASE AGAINST AND PERMENTLY EXPOSED TO SOIL OR WATER, 1.5" EVERYWHERE ELSE.
 4. REINFORCEMENT IS BENT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



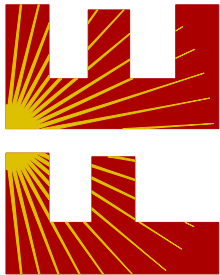
OPTIONAL CONCRETE STRIP FOOTING



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