GENERAL NOTES

1. DESIGN IS FOR MAXIMUM 60'-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

3. RISK CATEGORY: I

4. EXPOSURE CATEGORY: C

5. 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 U.N.O.
   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. U.N.O.

6. DEAD LOAD = 5 PSF

7. ROOF LIVE LOAD = 12 PSF

8. SPECIFICATIONS APPLICABLE TO 29/26 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS, 29/26 GAUGE METAL PANELS SHALL BE FASTENED TO 18 GAUGE HAT CHANNELS (UNLESS OTHERWISE NOTED).

9. BASE RAIL ANCHORAGE OPTIONS FOR VARYING WIND SPEEDS ARE PROVIDED IN PAGE 3.

10. 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 25 FEET OR LESS, AND ROOF SLOPES OF 14° (3:12 PITCH)/18.434° (4:12 PITCH).SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.

11. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS, INTERIOR = 9" OR END = 6", (MAX.). THIS CONNECTION PATTERN SHALL BE SUPERCEDED BY THE PANEL MANUFACTURER'S INSTALLATION INSTRUCTIONS.

12. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
    SOIL SITE CLASS = D
    R = 3.25 Ie = 1.0
    Sds = 0.087 g V = CsW
    Sdi = 0.084 g

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

14. 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.

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

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

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

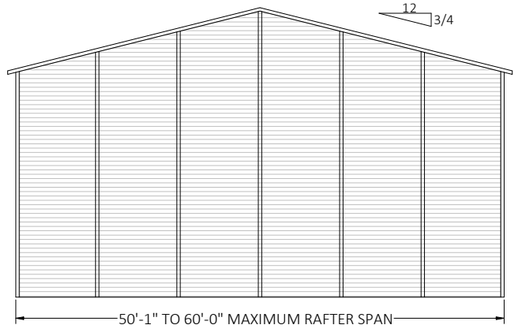
18. A LANDING OF MIN. 36" WIDTH IN THE DIRECTION OF TRAVEL SHALL BE PROVIDED AT THE EXTERIOR DOORS. SLOPE OF LANDING NOT TO EXCEED 1/4"-1'. LANDING LEVEL NOT TO BE LOWER THAN 1-1/2" (FOR EGRESS DOORS) & 7-3/4" (FOR OTHER EXTERIOR DOORS) BELOW THE TOP OF THRESHOLD.

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

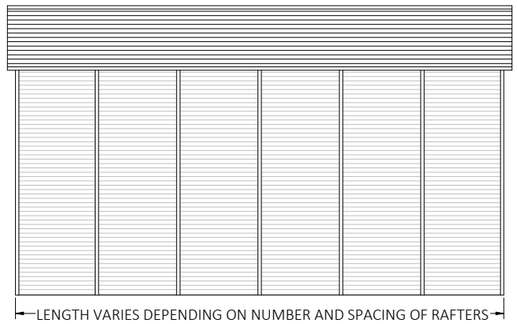
20. CONSTRUCTION IN SPECIAL FLOOD HAZARD AREAS:
CONTRACTOR TO VERIFY THAT THE FINISHED FLOOR ELEVATION FOR THE PROPOSED STRUCTURE IS AT OR ABOVE THE GREATER OF THE FOLLOWING ELEVATIONS:
I) BFE (BASE FLOOD ELEVATION) + H
   H = 1'-0" (RISK CATEGORY I & II BUILDINGS)
   H = 2'-0" (RISK CATEGORY III & IV BUILDINGS)
II) DFE (DESIGN FLOOD ELEVATION)
III) THE MINIMUM ELEVATION MANDATED BY THE BUILDING CODES ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

DRAWING INDEX

ENCLOSED METAL BUILDING DESIGN
MAXIMUM 60'-0" WIDE X 20'-0" EAVE HEIGHT
BOX EAVE FRAME



TYPICAL END ELEVATION - HORIZONTAL ROOF



TYPICAL SIDE ELEVATION - HORIZONTAL ROOF

BOX EAVE FRAME RAFTER ENCLOSED BUILDING

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Date: 2026.01.12 10:25:12-05'00'

Columbia County Building Department — Plans Reviewed for Code Compliance — State of Florida

GENERIC PLANS ARE NOT VALID WITHOUT A RAISED SEAL & BLUE INK SIGNATURE.

SITE SPECIFIC ENGINEERING NOTES:
1- ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.
2- THE ENGINEERING ON THESE PLANS IS SITE SPECIFIC FOR (1) STRUCTURE ONLY AT THE PROVIDED ADDRESS(ES).
3- TUBULAR BUILDING SYSTEMS MAY RETAIN COPIES NOT REQUIRED FOR PERMITTING.

FLORIDA ENGINEERING LLC
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(941) 391-5980
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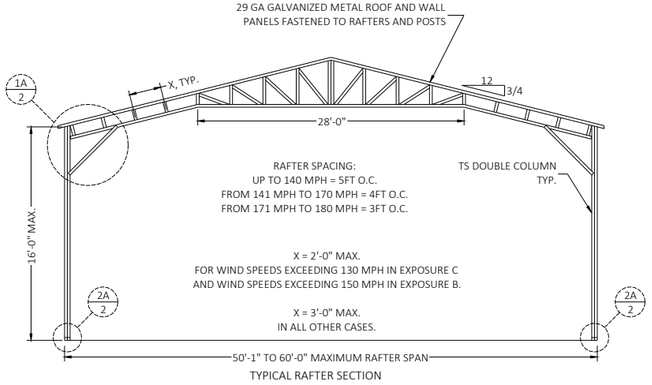
Orders@FLEng.com
CA CERT. #30782

PROJECT NO. 2535001-60-E

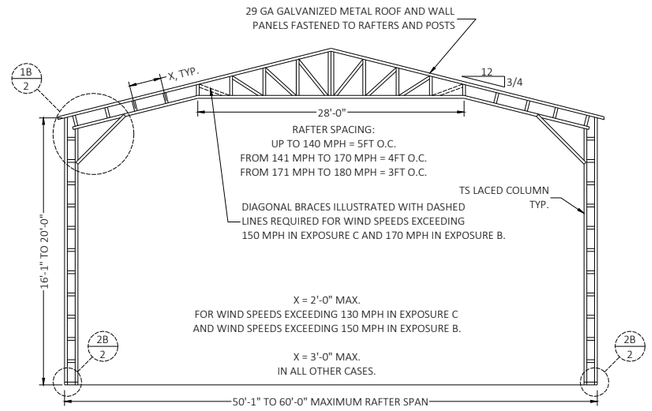
CONTRACTOR:
TUBULAR BUILDING SYSTEMS
P.O. BOX 2254
LAKE CITY, FL 32056

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

DESIGN DATE: 12/26/2025
REVISION 1: DATE
REVISION 2: DATE
SCALE: NTS



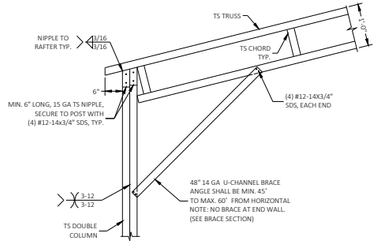
TYPICAL RAFTER SECTION



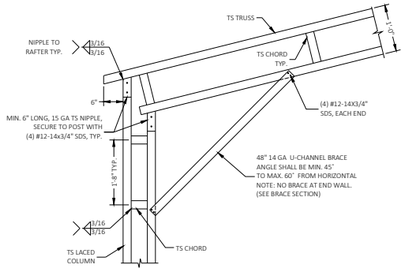
TYPICAL RAFTER SECTION

TYPICAL RAFTER/POST FRAME SECTION

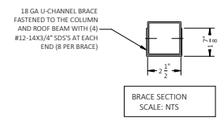
DESIGN NOTE:
1) ALL END WALL MEMBERS ARE 2.5X2.5X14GA TS LADDER LEGS U.N.O.
2) 12GA TS MEMBERS CAN BE USED IN LIEU OF 14GA TS MEMBERS FOR WIND SPEEDS FROM 171 MPH TO 180 MPH WITH MAXIMUM RAFTER SPACING OF 4FT O.C.

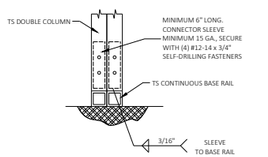


1A	BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 16'-0" SCALE: NTS

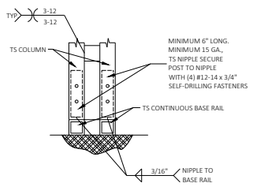


1B	BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO ≤ 20'-0" SCALE: NTS

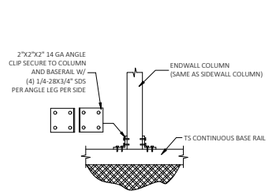




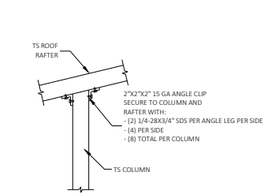
2A	RAFTER POST/BASE RAIL CONNECTION DETAIL SCALE: NTS



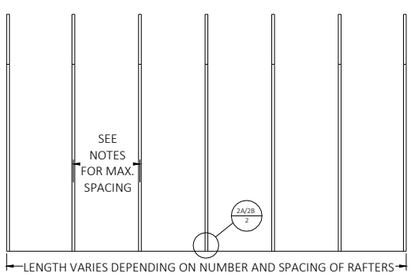
2B	RAFTER POST/BASE RAIL CONNECTION DETAIL SCALE: NTS



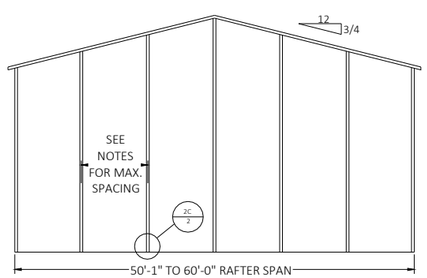
2C	ENDWALL COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS



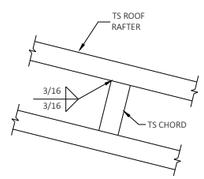
END COLUMN/RAFTER CONNECTION
SCALE: NTS



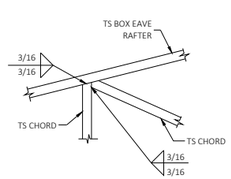
TYPICAL RAFTER/COLUMN SIDE WALL FRAME SECTION



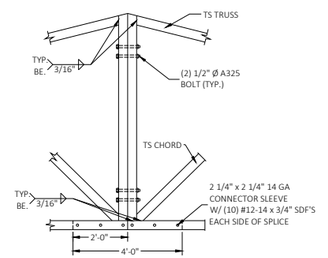
TYPICAL RAFTER/COLUMN ENDWALL FRAME SECTION



3	RAFTER TO CHORD CONNECTION SCALE: NTS



4	TRUSS POST AND CHORD TO RAFTER CONNECTION SCALE: NTS



5	SPLICE CONNECTION SCALE: NTS

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PROJECT NO. 2535001-60-E

CONTRACTOR:
TUBULAR BUILDING SYSTEMS
P.O. BOX 2254
LAKE CITY, FL 32056

PROJECT DESCRIPTION:
60' WIDE X 20' HIGH
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DESIGN DATE:	12/26/2025	
REVISION 1:	DATE	PAGE : 2
REVISION 2:	DATE	
SCALE:	NTS	

BASE RAIL ANCHORAGE OPTIONS

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:

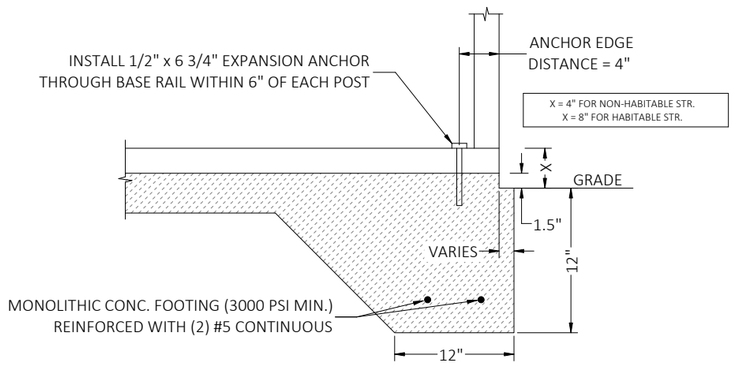
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAY BE BENT IN THE FIELD OR SHOP AS LONG AS:

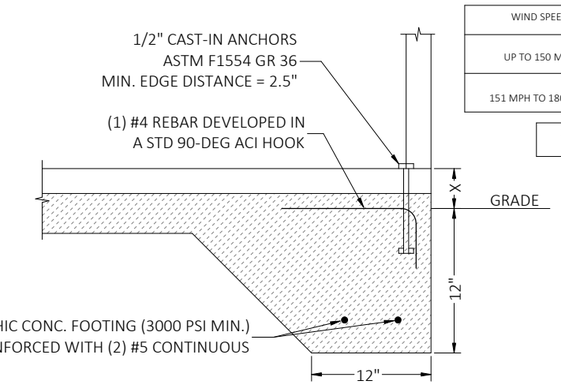
1. IT IS BENT COLD;
2. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT;
3. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
4. MINIMUM REQUIRED LAP LENGTH SHALL NOT BE LESS THAN 57-BAR DIAMETERS.

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.



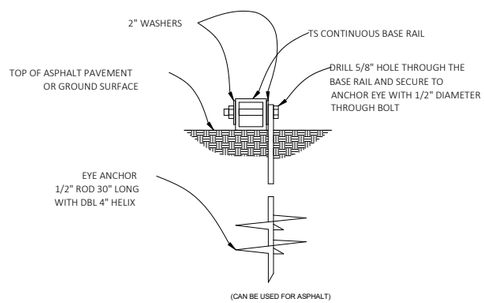
3A1	CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE SCALE: NTS



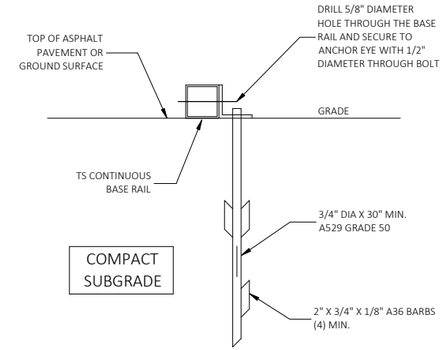
WIND SPEED	WALL HEIGHT	MIN. ANCHOR EMBEDMENT
UP TO 150 MPH	UP TO 14'-0"	3.50"
	14'-1" TO 16'-0"	3.75"
	16'-1" TO 20'-0"	4.75"
151 MPH TO 180 MPH	UP TO 14'-0"	4.25"
	14'-1" TO 16'-0"	5.00"
	16'-1" TO 20'-0"	6.50"

X = 4" FOR NON-HABITABLE STR.
X = 8" FOR HABITABLE STR.

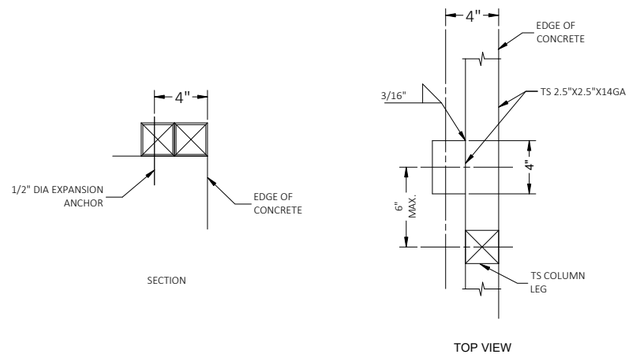
3A2	CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE SCALE: NTS



3B	GROUND BASE HELIX ANCHORAGE SCALE: NTS



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



3D	TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE SCALE: NTS

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CA CERT. #30782

PROJECT NO. 2535001-60-E

CONTRACTOR:
TUBULAR BUILDING SYSTEMS
P.O. BOX 2254
LAKE CITY, FL 32056

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

DESIGN DATE: 12/26/2025
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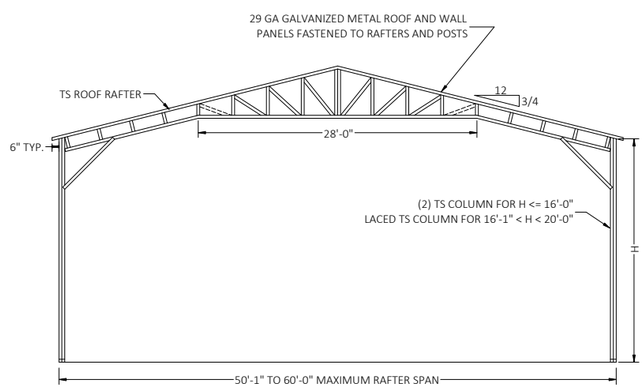
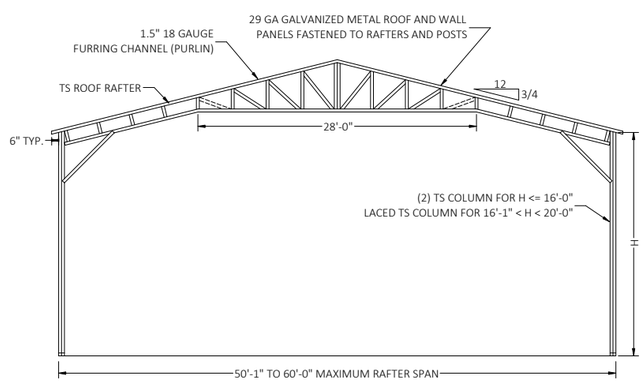
REVISION 2: DATE
SCALE: NTS

BOX EAVE RAFTER HORIZONTAL SIDE PANEL OPTION



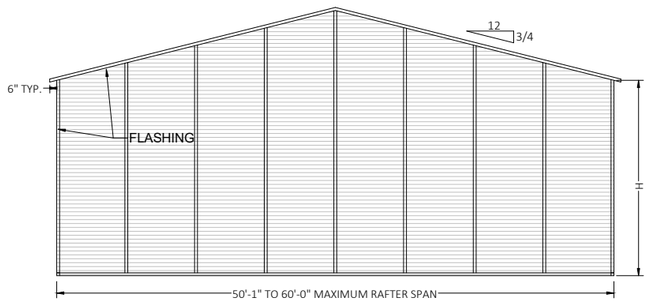
TYPICAL RAFTER SECTION

BOX EAVE RAFTER VERTICAL ROOF OPTION



TYPICAL RAFTER SECTION

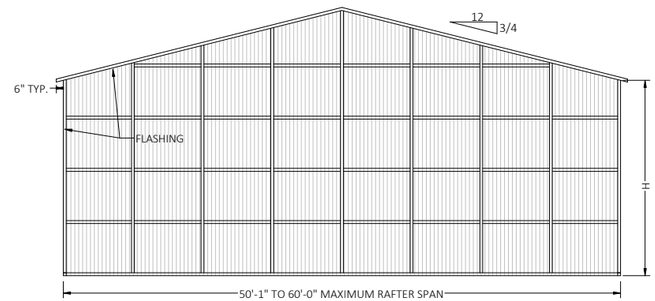
TYPICAL RAFTER/POST FRAME SECTION
EXTRA SIDE PANELS



TYPICAL RAFTER SECTION

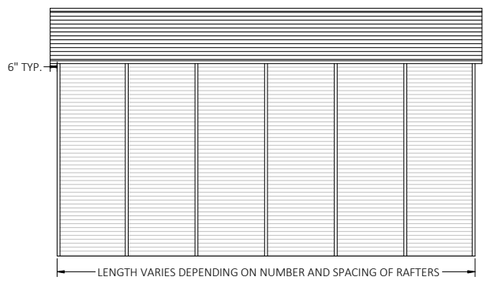
TYPICAL END ELEVATION
EXTRA SIDE PANELS

TYPICAL RAFTER/POST FRAME SECTION
EXTRA SIDE PANELS

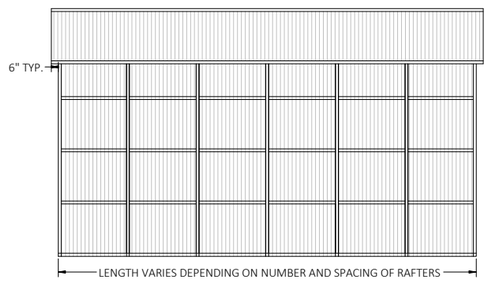


TYPICAL RAFTER SECTION

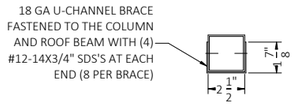
TYPICAL END ELEVATION
VERTICAL ROOF/SIDING OPTION



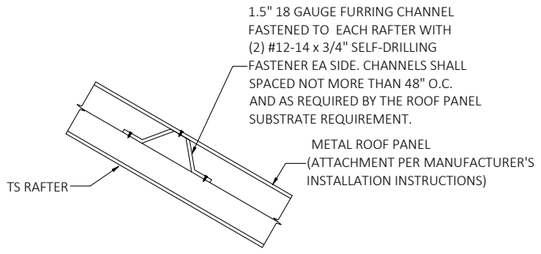
TYPICAL SIDE ELEVATION - EXTRA SIDE PANELS



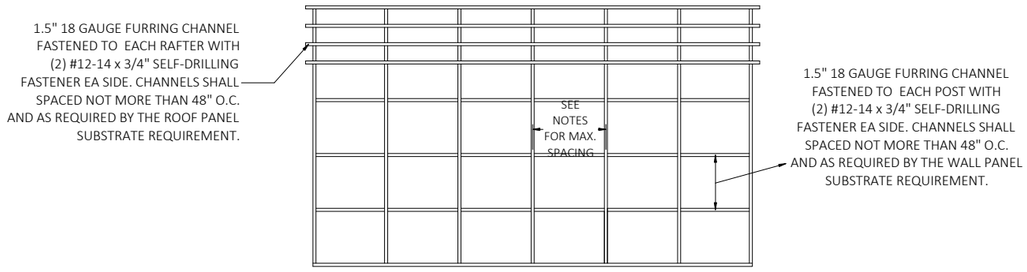
TYPICAL SIDE ELEVATION - VERTICAL ROOF/SIDING OPTION



BRACE SECTION
SCALE: NTS



ROOF PANEL ATTACHMENT
SCALE: NTS



TYPICAL FRAMING SECTION - VERTICAL ROOF/SIDING OPTION

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CA CERT. #30782

PROJECT NO. 2535001-60-E

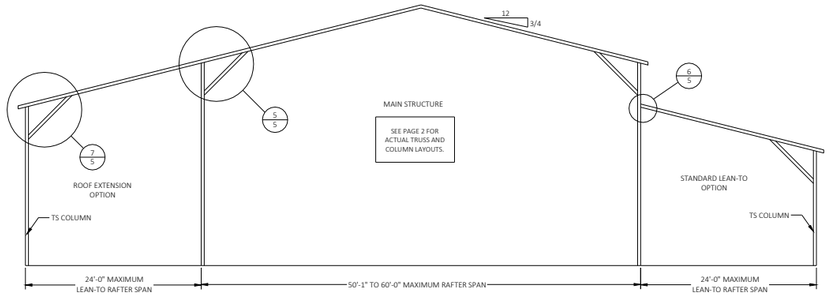
CONTRACTOR:
TUBULAR BUILDING SYSTEMS
P.O. BOX 2254
LAKE CITY, FL 32056

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

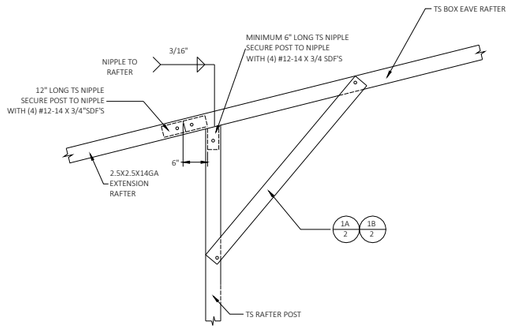
DESIGN DATE:	12/26/2025
REVISION 1:	DATE
REVISION 2:	DATE
SCALE:	NTS

PAGE : 4

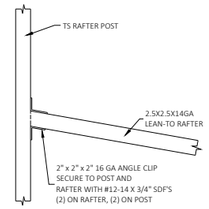
BOX EAVE RAFTER LEAN-TO OPTIONS



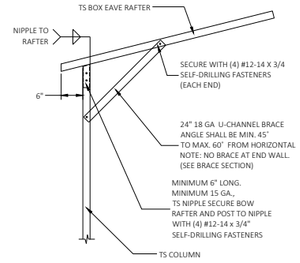
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)



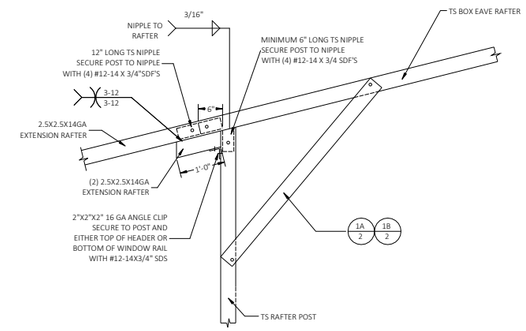
5A	SIDE EXTENSION RAFTER/COLUMN DETAIL FOR EXTENSION RAFTER SPANS W'<=12'-0", IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7A/5. FOR EXTENSION RAFTER SPANS W'<=13'-0", IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7B/5. FOR EXTENSION RAFTER SPANS W'<=15'-0", IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7C/5. SCALE: NTS



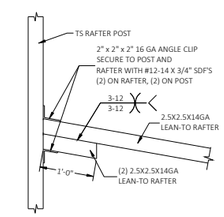
6A	LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR LEAN-TO RAFTER SPANS W'<=12'-0", IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7A/5. FOR LEAN-TO RAFTER SPANS W'<=13'-0", IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7B/5. FOR LEAN-TO RAFTER SPANS W'<=15'-0", IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7C/5. SCALE: NTS



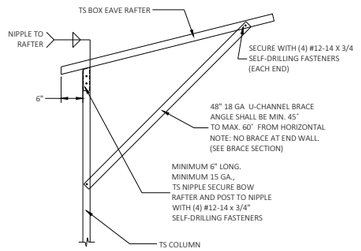
7A	BOX EAVE RAFTER COLUMN CONNECTION DETAIL 24" BRACE SCALE: NTS



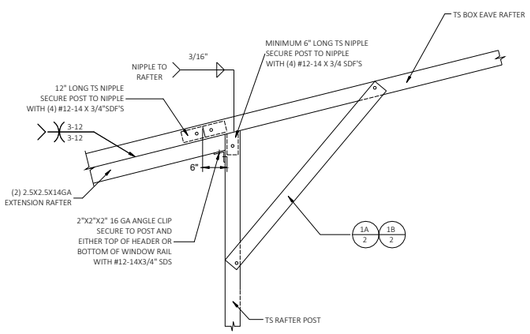
5B	SIDE EXTENSION RAFTER/COLUMN DETAIL FOR EXTENSION RAFTER SPANS 12'-0"<W'<=16'-0", IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7A/5. FOR EXTENSION RAFTER SPANS 13'-0"<W'<=18'-0", IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7B/5. FOR EXTENSION RAFTER SPANS 15'-0"<W'<=19'-0", IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7C/5. SCALE: NTS



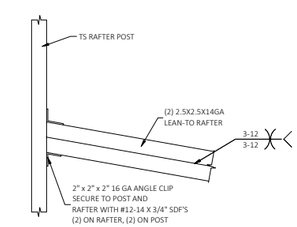
6B	LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR LEAN-TO RAFTER SPANS 12'-0"<W'<=16'-0", IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7A/5. FOR LEAN-TO RAFTER SPANS 13'-0"<W'<=18'-0", IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7B/5. FOR LEAN-TO RAFTER SPANS 15'-0"<W'<=19'-0", IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7C/5. SCALE: NTS



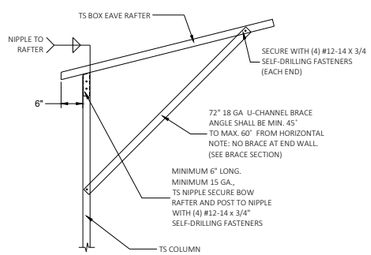
7B	BOX EAVE RAFTER COLUMN CONNECTION DETAIL 48" BRACE SCALE: NTS



5C	SIDE EXTENSION RAFTER/COLUMN DETAIL FOR EXTENSION RAFTER SPANS 16'-0"<W'<=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'<=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'<=24'-0", IF THE KNEE BRACE ON THE OTHER END OF THE RAFTER IS PER DETAIL 7C/5. SCALE: NTS



6C	LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR LEAN-TO RAFTER SPANS 16'-0"<W'<=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'<=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'<=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

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Date: 2026.01.12 10:25:13-05'00'

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PROJECT NO. 2535001-60-E

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TUBULAR BUILDING SYSTEMS
P.O. BOX 2254
LAKE CITY, FL 32056

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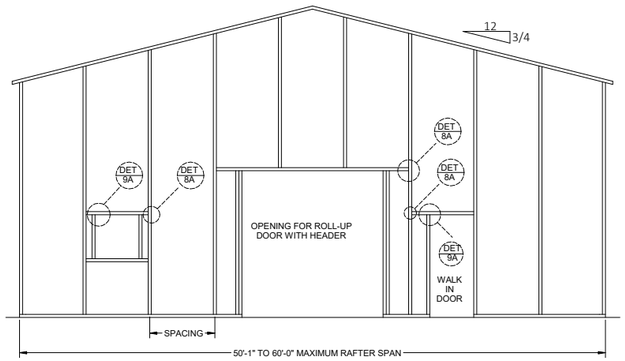
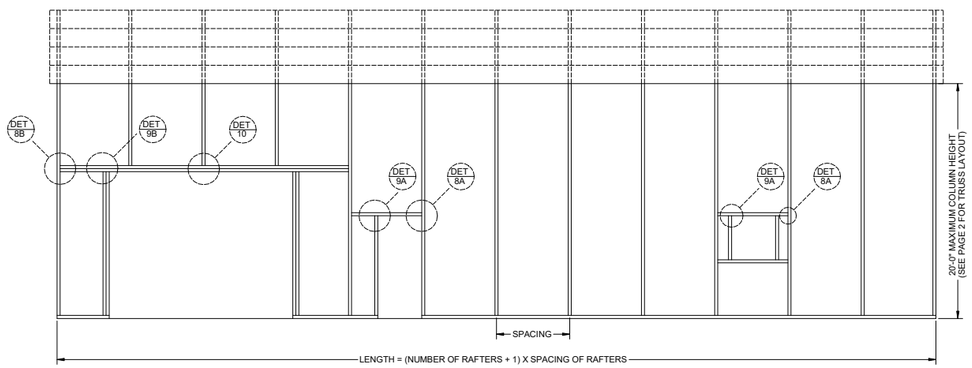


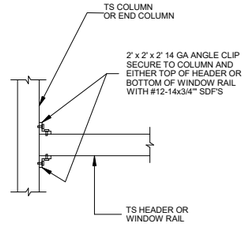
SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 150 MPH U.N.O.
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 150 MPH AND 180 MPH U.N.O.

TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

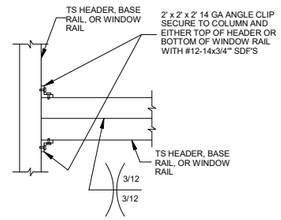


SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 150 MPH U.N.O.
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 150 MPH AND 180 MPH U.N.O.

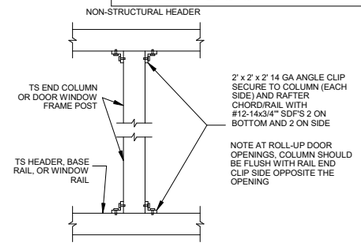
TYPICAL BOX EAVE RAFTER SIDE WALL FRAMING SECTION



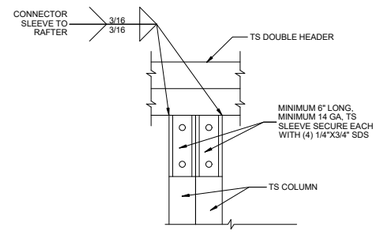
8A NON-STRUCTURAL HEADER OR WINDOW RAIL TO POST CONNECTION DETAIL
SCALE: NTS



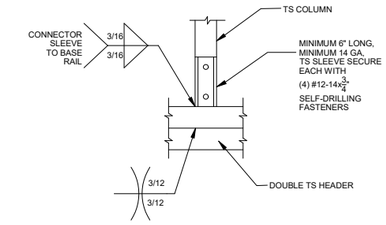
8B DOUBLE HEADER OR WINDOW RAIL TO POST CONNECTION DETAIL
SCALE: NTS



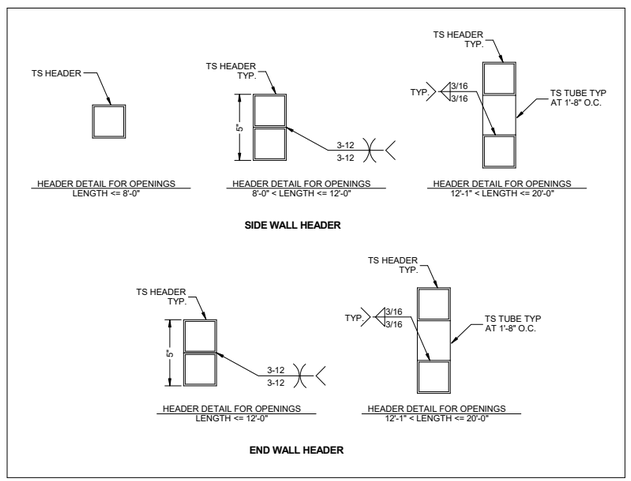
9A POST TO NON-STRUCTURAL HEADER, BASE, RAIL OR WINDOW RAIL CONNECTION DETAIL
SCALE: NTS

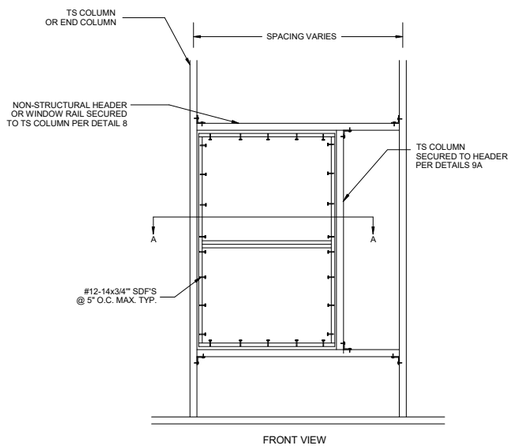


9B DOUBLE HEADER/COLUMN CONNECTION
SCALE : N.T.S.



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





11 WINDOW INSTALLATION DETAILS
N.T.S.

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P.O. BOX 2254
LAKE CITY, FL 32056

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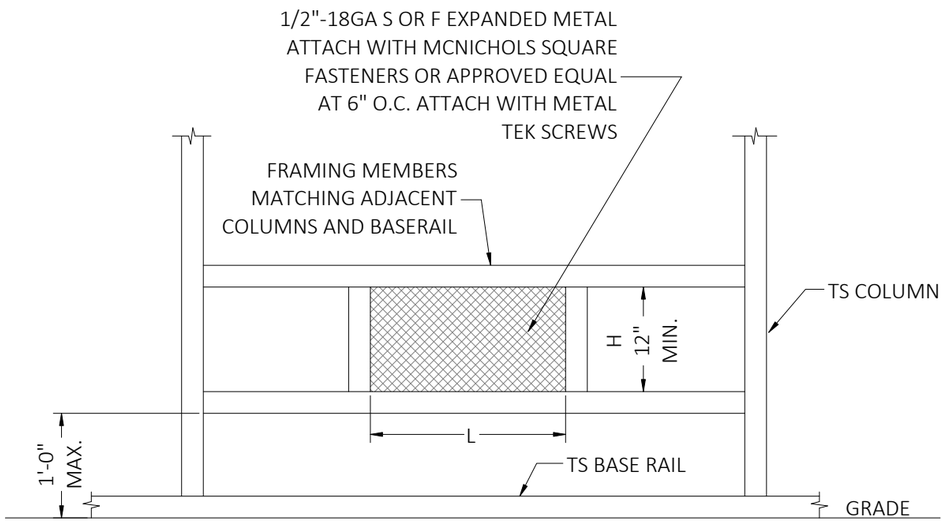


TYPICAL FLOOD VENT DETAIL

CONSTRUCTION IN SPECIAL FLOOD HAZARD AREAS:

CONTRACTOR TO VERIFY THAT THE FINISHED FLOOR ELEVATION FOR THE PROPOSED STRUCTURE IS AT OR ABOVE THE GREATER OF THE FOLLOWING ELEVATIONS:

I) BFE (BASE FLOOD ELEVATION) + 2'-0"

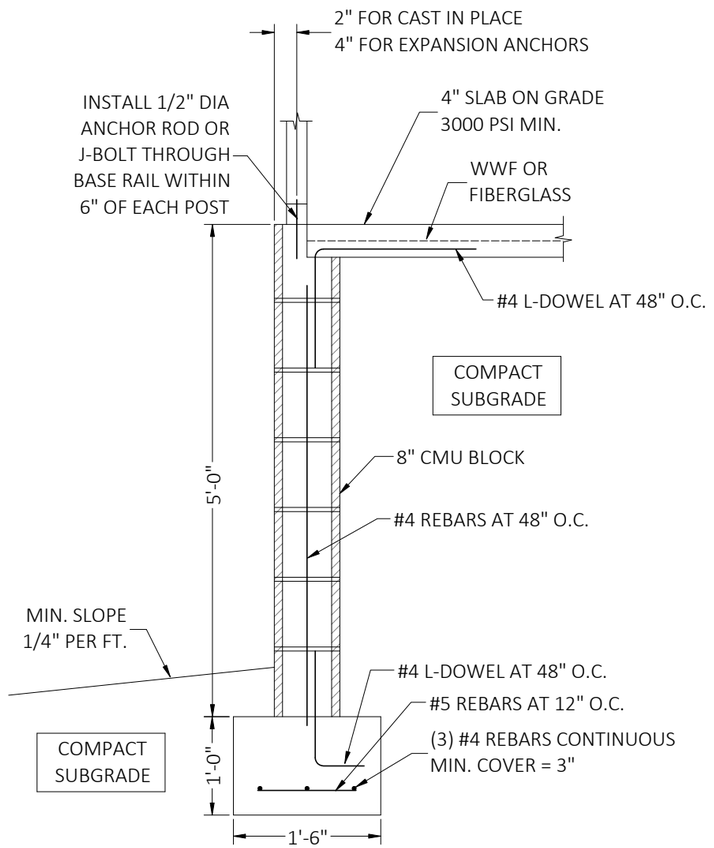
II) DFE (DESIGN FLOOD ELEVATION)

III) THE MINIMUM ELEVATION MANDATED BY THE BUILDING CODES ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

FLOOD VENT INSTALLATION NOTES:

1. MINIMUM VENT SPACE REQUIRED = 1 SQ. IN. OF OPEN VENT AREA PER SQ. FT. OF ENCLOSED AREA.
2. PROVIDE A MINIMUM OF TWO OPENINGS ON DIFFERENT SIDES OF EACH ENCLOSED AREA.
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 INSTALLED.

FLOOD SOLUTIONS STATIC FLOOD VENTS FL #17588.1-R4				
VENT MODEL	VENT SIZE (WIDHT x HEIGHT) (in.)	ROUGH OPENING SIZE (Width x Height) (in.)	ENCLSOED AREA COVERAGE (sq. ft.)	NET FREE AREA (sq. in.)
FS-1608	$18\frac{1}{2}$" X $10\frac{1}{2}$"	16 X 8	97	80.7
FS-1616	$18\frac{1}{2}$" X $18\frac{1}{2}$"	16 X 16	191	158.2
FS-1412	$17\frac{1}{2}$" X $14\frac{1}{2}$"	$14\frac{1}{2}$" X 12"	129	106.7
FS-1608-HEX	$18\frac{1}{2}$" X $10\frac{1}{2}$"	16 X 8	110	91.4



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

GENERIC PLANS ARE NOT VALID WITHOUT A RAISED SEAL & BLUE INK SIGNATURE.

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GENERAL NOTES

CONCRETE MONOLITHIC SLAB DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 2000 PSF.

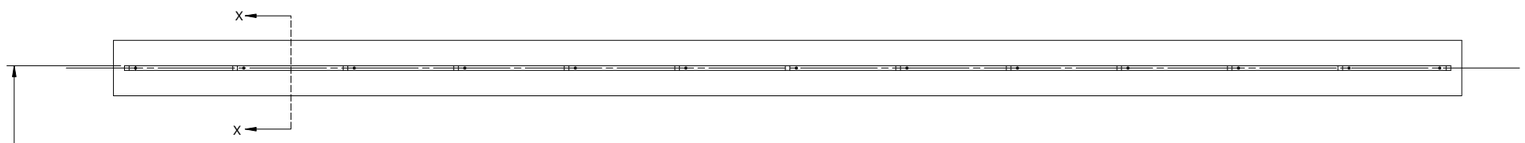
CONCRETE

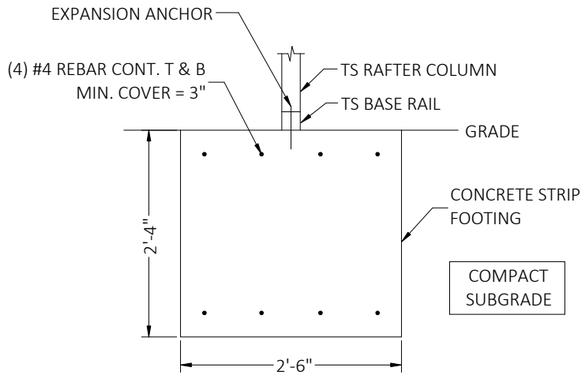
MINIMUM 28-DAY SPECIFIED COMPRESSIVE STRENGTH = 3000 PSI

REINFORCING STEEL

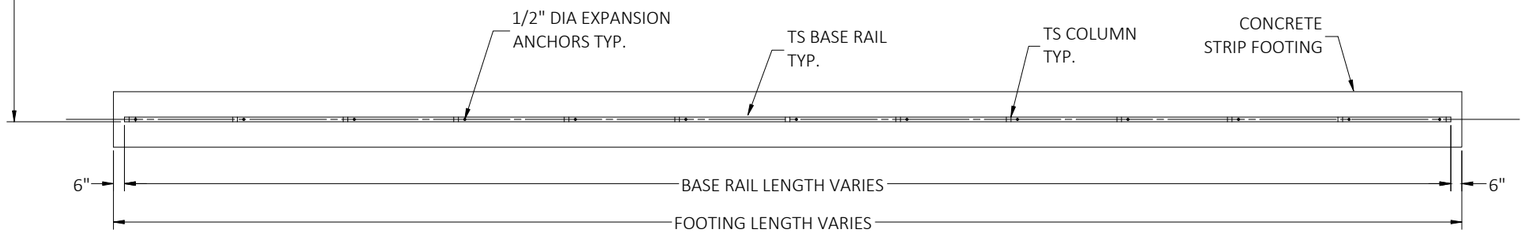
1. TURNDOWN REINFORCING STEEL = ASTM A615 GRADE 60
2. SLAB REINFORCEMENT = WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
3. REINFORCING STEEL COVER = 3" WHERE CASE AGAINST AND PERMENENTLY EXPOSED TO SOIL OR WATER, 1.5" EVERYWHERE ELSE.
4. REINFORCEMENT IS BENT COLD.
5. MINIMUM INSIDE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

OPTIONAL CONCRETE STRIP FOOTING





SECTION X-X



CONCRETE STRIP FOOTING PLAN

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