

APPLICABLE CODES AND STANDARDS:

- 2020 FLORIDA BUILDING CODE (7TH EDITION)
- 2018 INTERNATIONAL BUILDING CODE
- ASCE 7-16: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
- AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
- ACI 318.14: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- TMS 402-16: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
- AWS D1.1: STRUCTURAL WELDING

DESIGN LOADS:

- DEAD LOAD = 15 PSF
- LIVE LOAD = 20 PSF
- WIND LOAD (SEE TABLE 1)
- RISK CATEGORY = II
- WIND EXPOSURE CATEGORY = C
- ULTIMATE WIND SPEED = 120 MPH
NOMINAL WIND SPEED = 93 MPH

INSTALLATION NOTES AND SPECIFICATIONS:

- END WALL COLUMNS (POST) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING UNO.
- SPECIFICATIONS APPLICABLE TO 29 GA METAL PANELS FASTENED WITH 18 GA METAL PANELS. ALL STEEL (L)S PLANNING MEMBERS FOR VERTICAL PANELS 29 GA METAL PANELS SHALL BE FASTENED DIRECTLY TO 18 GA HAT CHANNELS UNO.
- AVERAGE FASTENER SPACING ON-CENTERS ALONG BATTERS OR PURLINS AND POSTS, INTERIOR = 9" AND END = 6" MAX.
- FASTENERS CONSIST OF #12-14X3/4" SELF-DRILLING SCREWS (SDS). USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20'-0" OR LESS, AND ROOF SLOPES OF 19° (4:12 PITCH) OR LESS. SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
- ANCHORS SHALL BE INSTALLED THROUGH THE BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES AND ENDS.
- STANDARD GROUND ANCHORS (BOIL NAILS) CONSIST OF #4 REBARS WITH WELDED NUT X 30" LONG AND MAY BE USED IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED. SOIL NAILS MAY BE USED FOR WIND SPEEDS LESS THAN OR EQUAL TO 145 MPH.
- RAFTER SPACING IS 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH AND 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH.

DRAWING INDEX

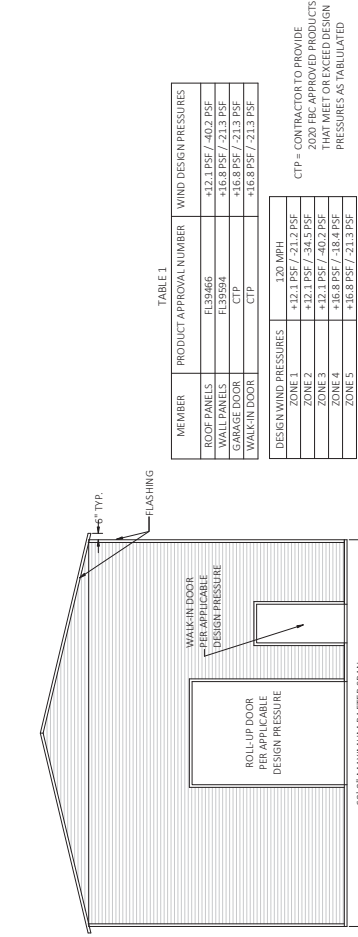
PAGE NO.	DESCRIPTION
1	NOTES AND SPECIFICATIONS
2	BOX EAVE FRAME RAFTER ENCLOSED BUILDING
3	CONNECTION DETAILS (1-2)
4	BASE RAIL AND FOUNDATION ANCHORAGE
5	BOX EAVE RAFTER AND WALL SIDE WALL AND OPENING FRAMING
6	CONNECTION DETAILS (4-10)
7	CONNECTION DETAILS (11-14)
8	BOX EAVE FRAME ANCHORING DETAILS
9	CONNECTION DETAILS (16-18)
10	BOX EAVE RAFTER VERTICAL ROOF FLOORING OPTION
11	OPTIONAL CONCRETE STRIP FOOTING
12	OPTIONAL HELICAL ANCHORING DETAIL

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

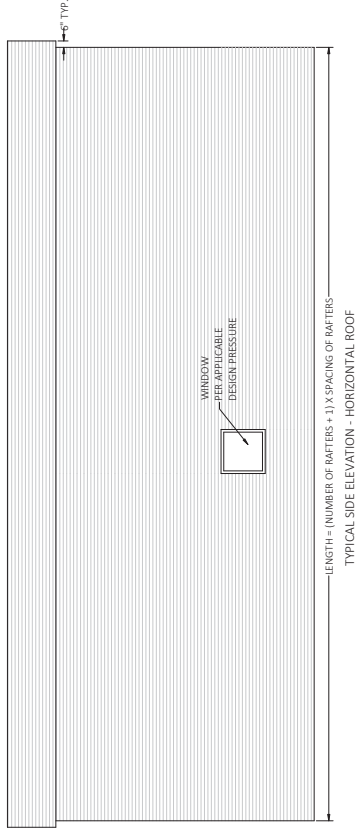
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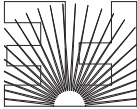
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TYPICAL END ELEVATION - BOX EAVE



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PROJECT NO. 2217229

CONTRACTOR:
ELITE METAL
MANUFACTURING

PROJECT ADDRESS:
32-60' PLANS
10121 88TH TRACE
LIVE OAK FL 32060

DESIGN DATE:	06/24/2022
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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 PERMANENTLY EXPOSED TO SOIL OR WATER, 1.5" EVERYWHERE ELSE.
4. MINIMUM INSIDE DIAMETER OF BEND = (6) BAR DIAMETERS
5. MINIMUM INSIDE DIAMETER OF BEND = (6) BAR DIAMETERS
6. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

HELIX ANCHOR NOTES:

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

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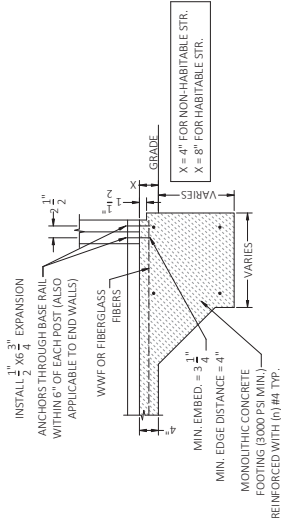
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No. 00102
Craig E. Gunderson
State of FLORIDA

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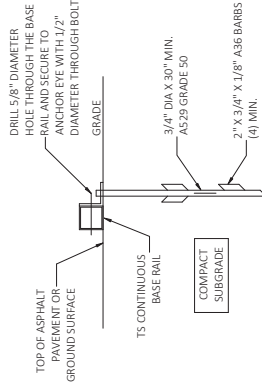
MONOLITHIC FOOTER SIZE			
110 C - 140 C	8"X8"	(2) #4	
ABOVE 140 C	16"X16"	(4) #4	



DETAIL 3A
CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

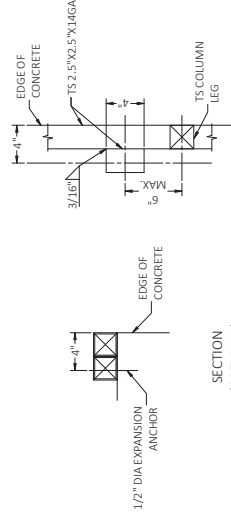
DETAIL 3B
GROUND BASE HELIX ANCHORAGE

BASE RAIL ANCHORAGE OPTIONS

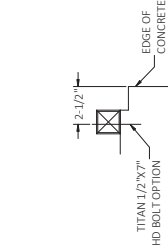


DETAIL 3C

ASPHALT BASE ANCHORAGE
(HP 9 BARBED DRIVE ANCHOR)



SECTION (OPTION-1)



SECTION (OPTION-2)

TYPICAL ANCHOR DETAIL WHEN BASE
RAIL IS NEAR EDGE OF CONCRETE

BASE RAIL ANCHORAGE OPTION

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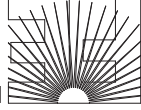
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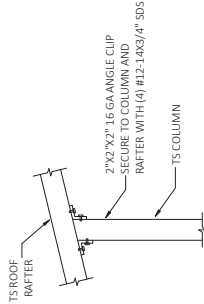
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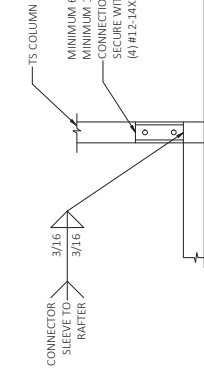
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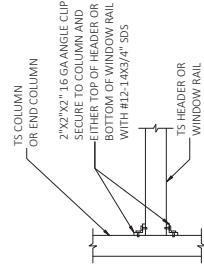
CONNECTION DETAILS



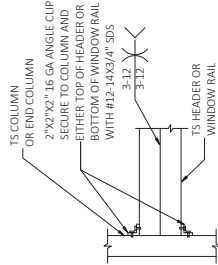
DETAIL 4
END COLUMN/RAFTER CONNECTION



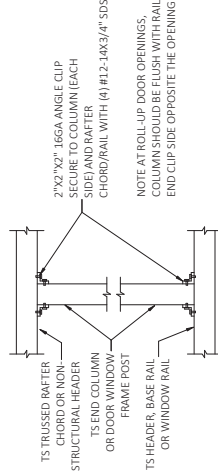
DETAIL 5
END POST/BASE RAIL CONNECTION



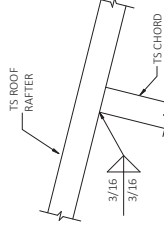
DETAIL 6A
HEADER TO COLUMN CONNECTION



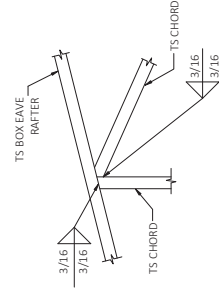
DETAIL 6B
DOUBLE HEADER TO COLUMN CONNECTION



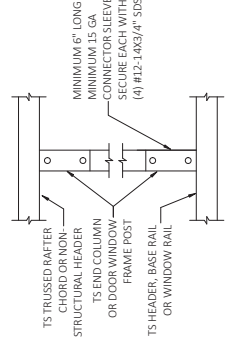
DETAIL 7
POST TO HEADER, BASE RAIL OR WINDOW RAIL CONNECTION



DETAIL 8
RAFTER TO CHORD CONNECTION

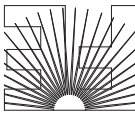


DETAIL 9
TRUSS POST AND CHORD TO RAFTER CONNECTION



DETAIL 10
POST TO HEADER, BASE RAIL CONNECTION

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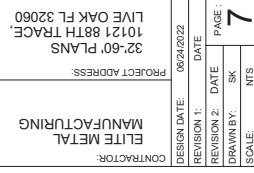
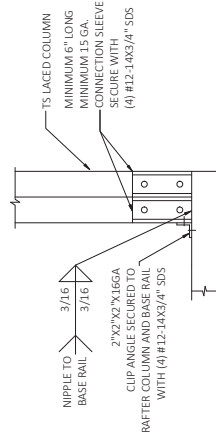
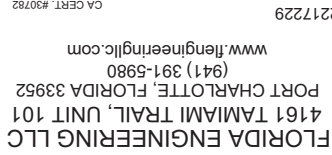
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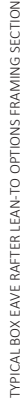


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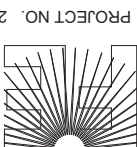
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PROJECT NO. 2217229

ELITE METAL
MANUFACTURING

SS: LAN, STH, KF

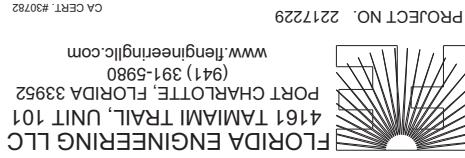
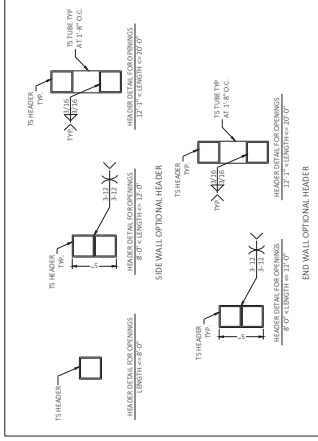
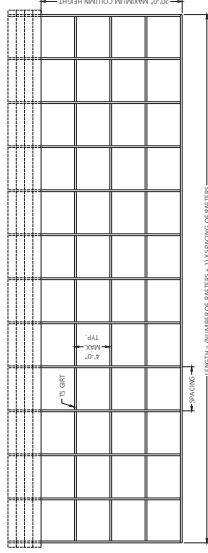
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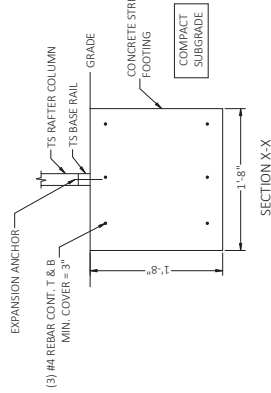
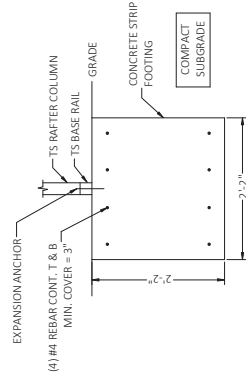
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5. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

STRIP FOOTER SIZE		
110 C - 140 C	20"X20"	
ABOVE 140 C	26"X26"	



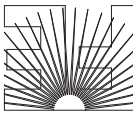
OPTIONAL CONCRETE STRIP FOOTING

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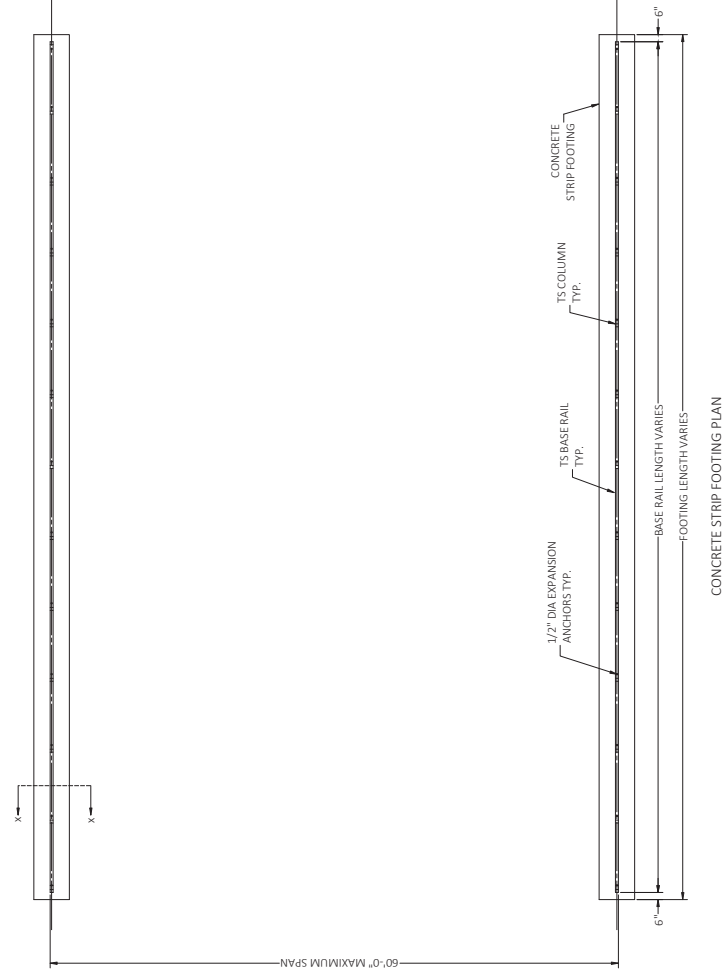


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CONTRACTOR:

ELITE METAL MANUFACTURING

PROJECT ADDRESS:

32'-60" PLANS
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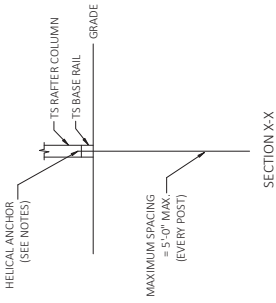
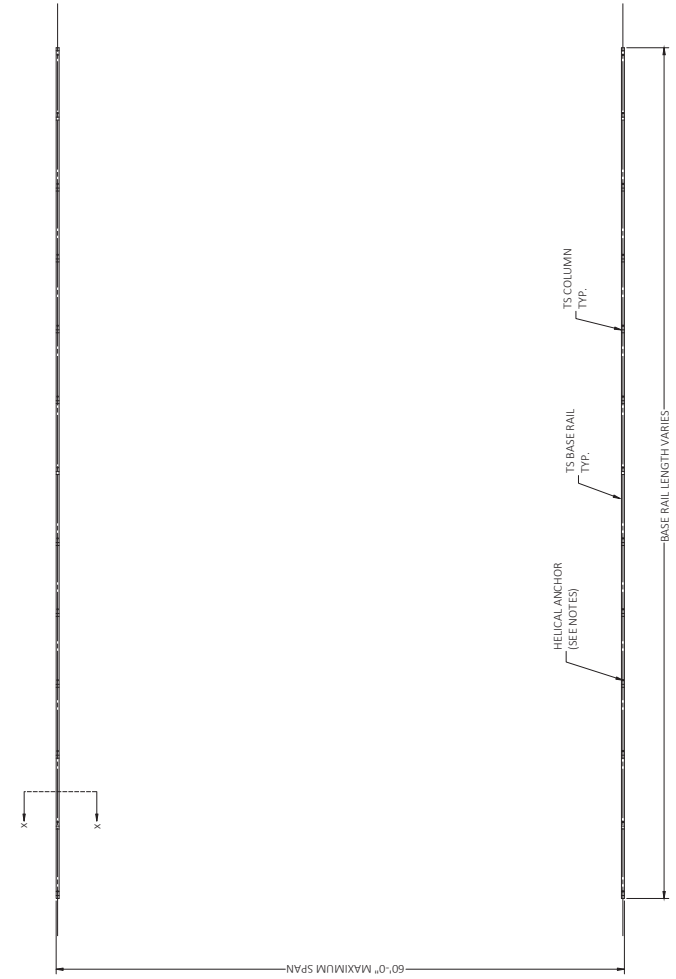
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 3. FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.

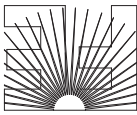
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