### APPLICABLE CODES AND STANDARDS AWS D1.1: STRUCTURAL WELDING AISC STEEL CONSTRUCTION MANUAL (15TH EDITION) ACI 318-19: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ASCE 7-22: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES 2023 FLORIDA BUILDING CODE, RESIDENTIAL TMS 402-16: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES

- ROOF LIVE LOAD = 12 PSF DEAD LOAD = 1.5 PSF

- NOMINAL WIND SPEED = 86 MPH TO 108 MPH WIND EXPOSURE CATEGORY = C ULTIMATE WIND SPEED = 110 MPH TO 140 MPH

RESISTING SYSTEM (MWFRS), COMPONENTS AND CLADDING (C&C), AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING BUT NOT LIMITED TO PROPERTY SET-BACKS, INSTALLATION NOTES AND SPECIFICATIONS

1. THESE PLANS BELONG EXCLUSIVELY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE ELECTRICAL, PLUMBING, INGRESS/EGRESS, FINISH FLOOR SLOPES AND ELEVATIONS, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE LIABILITY OF OTHERS. THESE STRUCTURES ARE ENGINEERED AS CAPABLE OF SUPPORTING DEAD LOAD OF THE

SHALL NOT BE RESPONSIBLE FOR FAILURE OR STRUCTURAL DAMAGE DUE TO THE EXTRA LOAD.

3. ALL STEEL TUBING SHALL BE 50 KSI GALVANIZED STEEL ALL FASTENERS SHALL BE ZINC STRUCTURE AND LIVE AND WIND LOADS. UPGRADES NOT SPECIFICALLY ADDRESSED HEREIN CAUSE ADDITIONAL LOADS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK. THE ENGINEER APROVED PRODUCT LIST, AND NOT PROVIDED AND INSTALLED BY THE CONTRACTOR, WHICH SUCH AS WINDOWS, DOORS, OR ANOTHER COMPONENT NOT LISTED IN THE BUILDING CODE

SPECIFICATIONS APPLICABLE TO 29 GA METAL PANELS FASTENED DIRECTLY TO 2.5"X2.5"X14 END WALL COLUMNS (POST) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND

GA TUBE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS. 29 GA METAL PANELS SHALL BE

FASTENED DIRECTLY TO 18 GA HAT CHANNELS U.N.O. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS,

REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY. HEIGHT OF 20'-0" OR LESS, AND ROOF SLOPES OF 14° (3:12 PITCH) OR LESS. SPACING WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF ANCHORS SHALL BE INSTALLED THROUGH THE BASE RAIL WITHIN 6" OF EACH RAFTER FASTENERS CONSIST OF #12-14X3/4" SELF-DRILLING SCREWS (SDS), USE CONTROL SEAL

STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBARS WITH WELDED NUT X

FOR WIND SPEEDS LESS THAN OR EQUAL TO 145 MPH. SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED. SOIL NAILS MAY BE USED 36" LONG AND MAY BE USED IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN

WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:

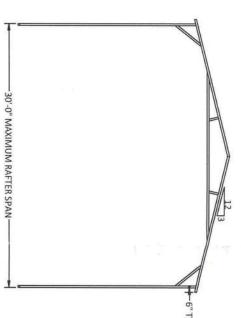
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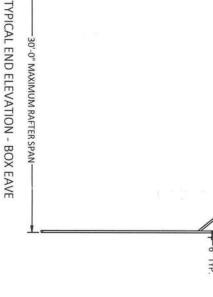
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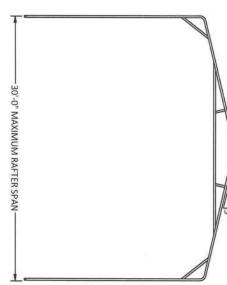
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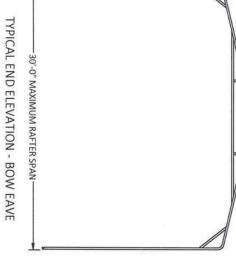
AGE NO.	DESCRIPTION
1	TITLE PAGE WITH INDEX
2	TRUSS DESIGN FOR RAFTER SPAN
3	CONNECTION DETAILS (1-2)
4	BASE RAIL AND FOUNDATION ANCHORAGE
US.	RAFTER END WALL, SIDE WALL AND OPENING FRAMING
6	CONNECTION DETAILS (4-14)
7	BOX EAVE RAFTER LEAN-TO OPTIONS
88	CONNECTION DETAILS (16-18)
9	BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION
10	OPTIONAL HELICAL ANCHORING ON GRADE DETAIL
11	OPTIONAL CONCRETE STRIP FOOTING
12	OPTIONAL HELICAL ANCHORING ON TIMBER BEAM DETAIL
13	FLOOD VENT REQUIREMENT/DETAIL

# MAXIMUM 30'-0" WIDE X 100'-0" LONG X 20'-0" HIGH (EAVE PARTIALLY ENCLOSED (UTILITY) METAL BUILDING DESIGN BOX EAVE FRAME / BOW EAVE FRAME







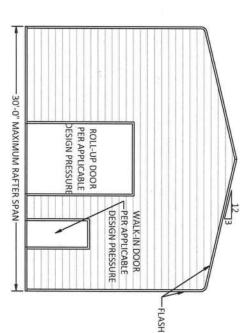


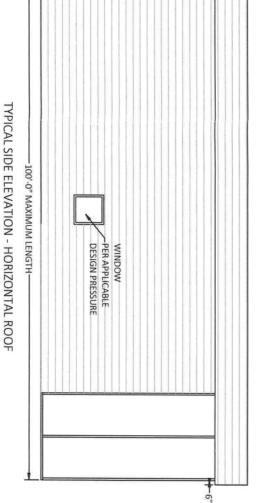


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## TYPICAL END ELEVATION - BOX EAVE 30'-0" MAXIMUM RAFTER SPAN ROLL-UP DOOR PER APPLICABLE DESIGN PRESSURE PER APPLICABLE DESIGN PRESSURE WALK-IN DOOR -FLASHING TYPICAL END ELEVATION - BOW EAVI







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

PROJECT NO. 2401113

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CONTRACTOR:

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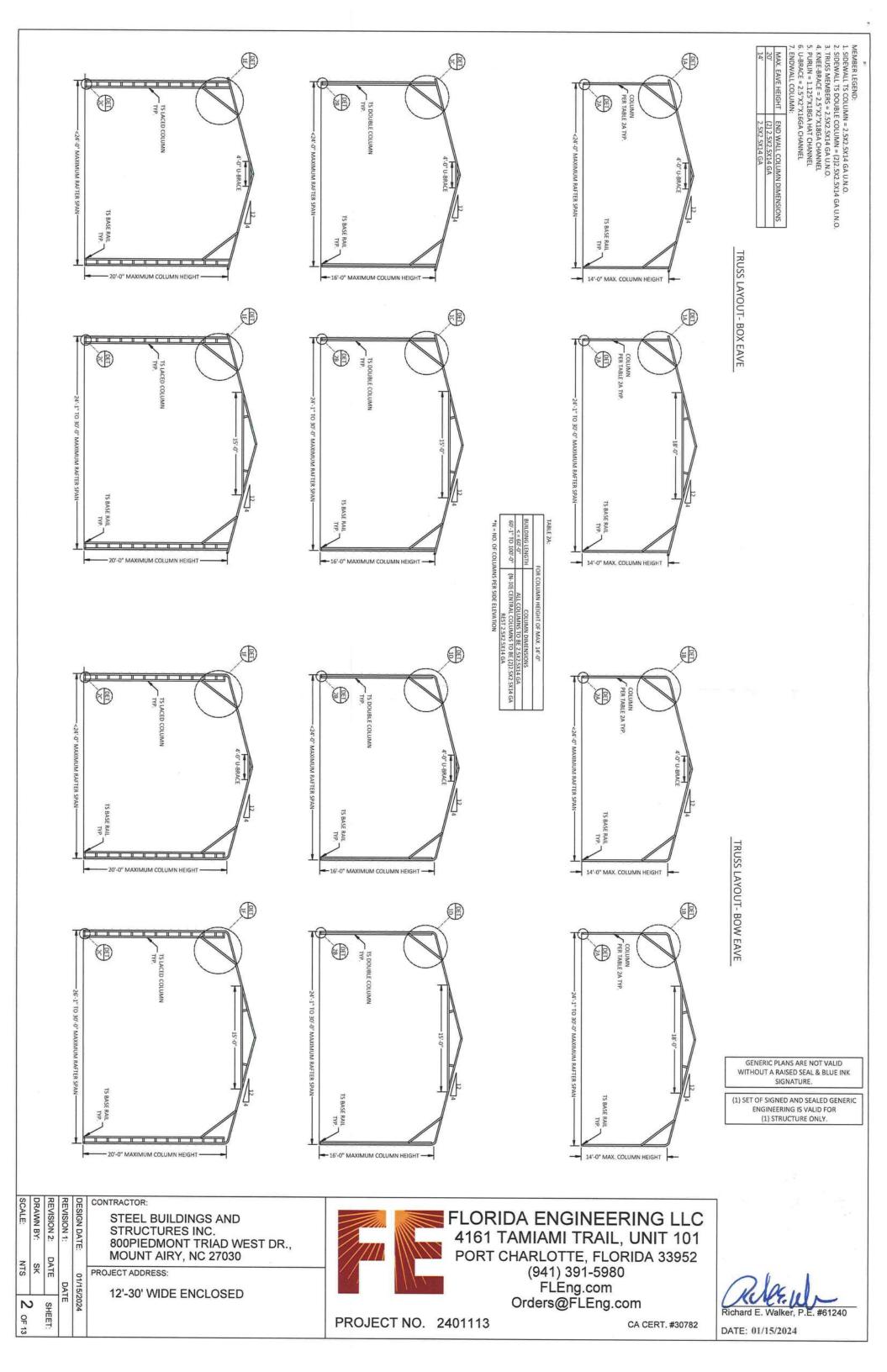
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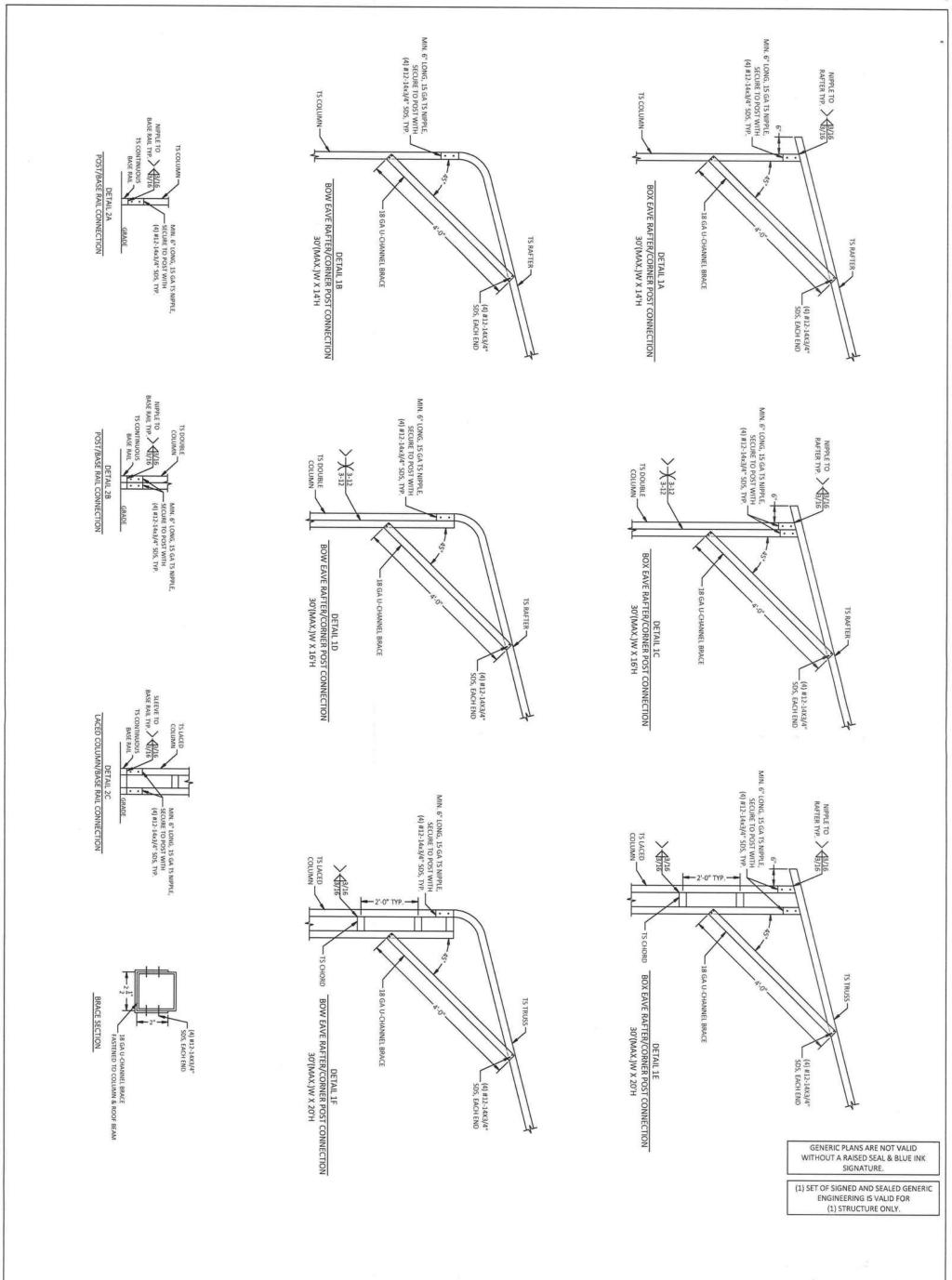
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STEEL BUILDINGS AND STRUCTURES INC.

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Richard E. Walker, P.E. #61240

GENERAL NOTES

CONCRETE MONOLITHIC SLAB DESIGN IS BASED ON A MINIMUM SOIL BEARING

CAPACITY OF 2500 PSF.

CONCRETE MINIMUM 28-DAY SPECIFIED COMPRESSIVE STRENGTH = 3000 PSI

EXPOSED TO SOIL OR WATER, 1.5" EVERYWHERE ELSE. FIBER REINFORCEMENT REINFORCING STEEL

1. TURNDOWN REINFORCING STEEL = ASTM A615 GRADE 60

2. SLAB REINFORCEMENT = WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS REINFORCING STEEL COVER = 3" WHERE CASE AGAINST AND PERMENENTLY

5. MINIMUM INSIDE DIAMETER OF BEND = (6) BAR DIAMETERS
6. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD REINFORCEMENT IS BENT COLD.

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, MINIMUM 30" EMBEDMENT EVERY 10" SANDY GRAVELS, VERY STIFF SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH

EVERY 5' OR EVERY POST (LEG). 2. FOR MEDIUM TO VERY LOOSE DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT THE UPLIFT/BEARING CAPACITY OF EACH ANCHOR MUST BE EQUAL TO OR

GREATER THAN 8.5 KIPS.

HP 9 BARBED DRIVE ANCHOR NOTES

1. ANCHOR TO BE 3/4" DIA (A529 GRADE 50) WITH 30" MIN. EMBEDMENT & (4)
MIN. BARBS AS SHOWN IN DETAIL 3C.

2. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES,
CALICHE, PRELOADED SILTS AND CLAYS, CORALS, MEDIUM DENSE COARSE SANDS,

ALLUVIAL FILL, MAX. SPACING TO BE 5' OR EVERY POST (LEG). SANDY GRAVELS, VERY STIFF SILTS AND CLAYS, MAXIMUM SPACING TO BE 10'. FOR MEDIUM TO VERY LOOSE DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS,

**GREATER THAN 8.5 KIPS** THE UPLIFT/BEARING CAPACITY OF EACH ANCHOR MUST BE EQUAL TO OR

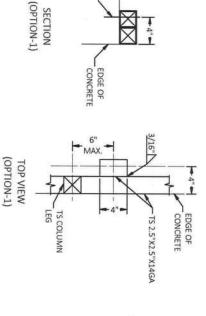
## ANCHOR SCHDULES:

1/2" DIA WEDGE ANCHOR WITH 5" MIN. EMBEDMENT INTO 3KSI MIN. CONCRETE; 4" MIN. EDGE DISTANCE (e)

ANCHOR TYPE #2

ANCHOR TYPE #1





1/2" DIA EXPANSION

SECTION

1/2" DIA HILTI KWIK HUS – OPTION

CONCRETE EDGE OF

BASE RAIL ANCHORAGE OPTION

TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

(OPTION-2) SECTION

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

DETAIL 3A-III

CONTINUOUS

(25" MIN. LAP)

2) #5 BAR

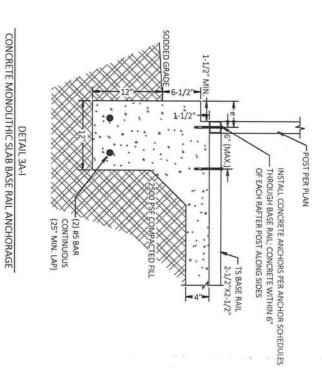


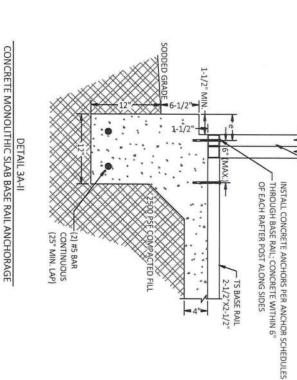
THROUGH BASE RAIL; CONCRETE WITHIN 6"
OF EACH RAFTER POST ALONG SIDES

2-1/2"X2-1/2" TS BASE RAIL OPTIONAL CONCRETE ANCHORS

PER ANCHOR SCHEDULES

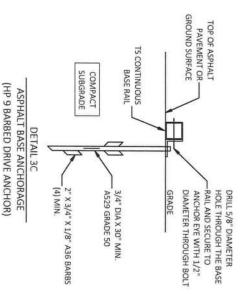
-POST PER PLAN





GROUND SURFACE TOP OF ASPHALT HELIX EYE ANCHOR TS CONTINUOUS\_ GROUND BASE HELIX ANCHORAGE BASE RAIL GRADE COMPACT DRILL 5/8" DIAMETER
HOLE THROUGH THE BASE
—RAIL AND SECURE TO ANCHOR EYE WITH 1/2"
DIAMETER THROUGH BOLT

CTED FILL



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POST PER PLAN

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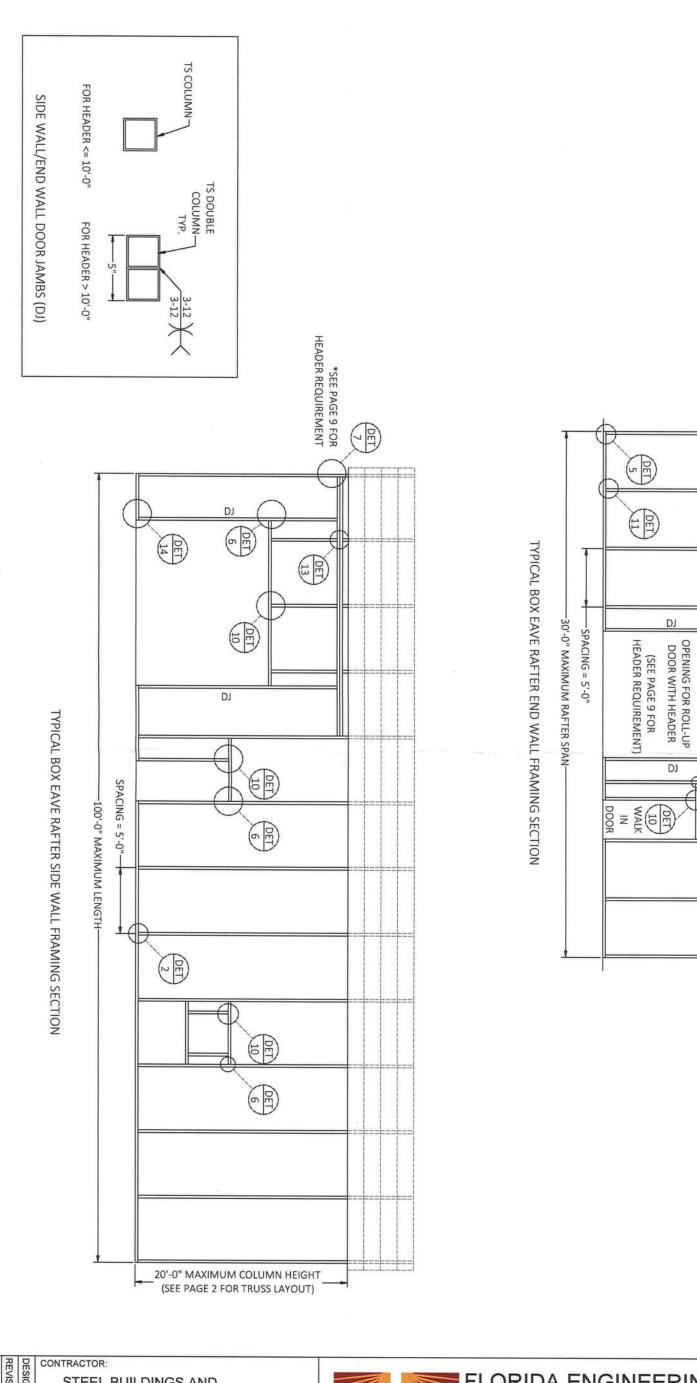
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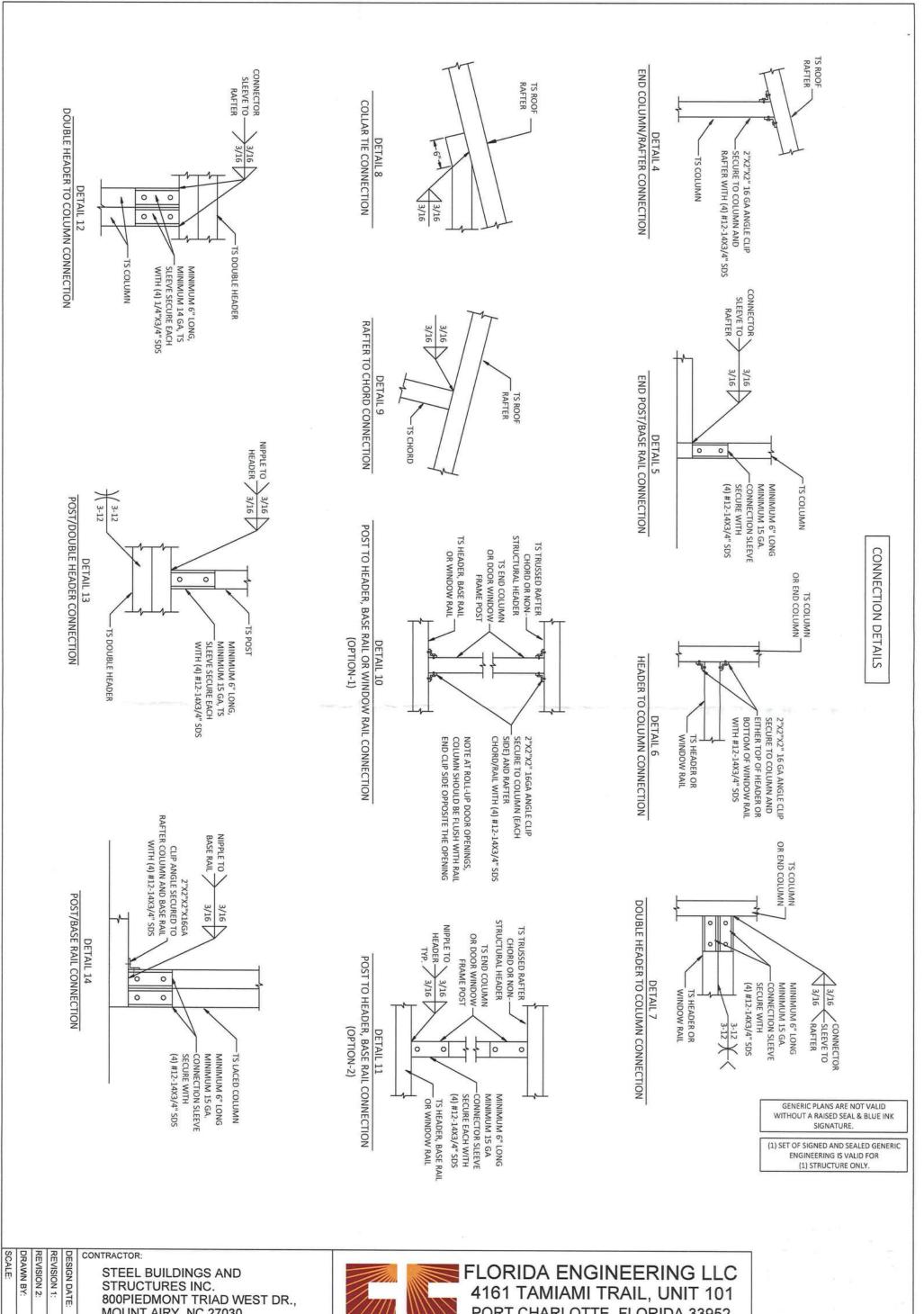
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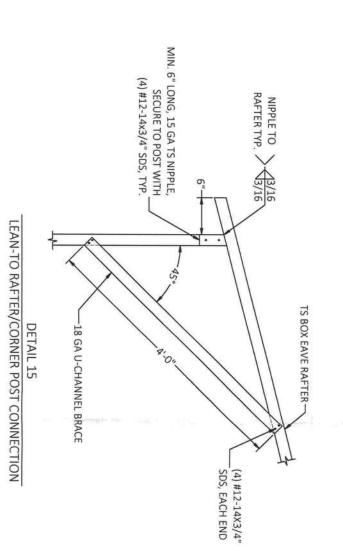
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Richard E. Walker, P.E. #61240 DATE: 01/15/2024



TS COLUMN
TYP. 12'-0" TO 16'-0" MAXIMUM LEAN-TO RAFTER SPAN **ROOF EXTENSION** OPTION TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION -COLUMN PER PAGE 2 -30'-0" MAXIMUM RAFTER SPAN-TRUSS LAYOUT PER PAGE 2 MAIN STRUCTURE 1 12'-0" TO 16'-0" MAXIMUM LEAN-TO RAFTER SPAN STANDARD LEAN-TO OPTION TS COLUMN 5

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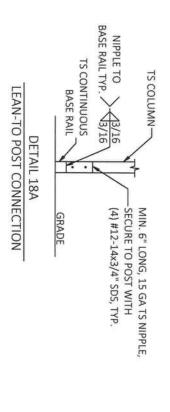
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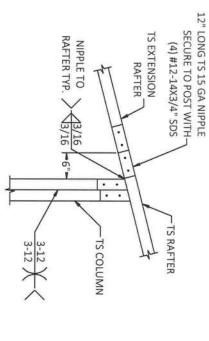
DETAIL 17A

LEAN TO RAFTER/COLUMN CONNECTION

FOR RAFTER SPANS LESS THAN 12'-0"

2"X2"X2" 16GA ANGLE CLIP
SECURE TO POST AND RAFTER
WITH #12-14X3/4" SDS
(2) ON TOP AND (2) ON BOTTOM
TS RAFTER

DETAIL 16A
SIDE EXTENSION RAFTER/COLUMN CONNECTION
FOR RAFTER SPANS LESS THAN 12'-0"



TS DOUBLE RAFTER

TS COLUMN

DETAIL 17B

LEAN TO RAFTER/COLUMN CONNECTION

FOR RAFTER SPANS BETWEEN 12'-0" AND 16'-0"

DETAIL 16B
SIDE EXTENSION RAFTER/COLUMN CONNECTION
FOR RAFTER SPANS BETWEEN 12'-0" AND 16'-0"

12" LONG TS 15 GA NIPPLE

SECURE TO POST WITH

(4) #12-14X3/4" SDS

TS EXTENSION

TS EXTENSION

RAFTER TYP.

TS RAFTER TYP.

TS COLUMN

2"X2"X2" 16 GA ANGLE CLIP

SECURE TO COLUMN AND
EITHER TOP OF HEADER OR

BOTTOM OF WINDOW RAIL

WITH #12-14X3/4" SDS

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12'-30' WIDE ENCLOSED

NIPPLE TO 3/16
BASE RAIL TYP. > 3/16

MIN. 6" LONG, 15 GA TS NIPPLE, -SECURE TO POST WITH (4) #12-14x3/4" SDS, TYP.

COLUMN COLUMN

TS CONTINUOUS BASE RAIL

LEAN-TO DOUBLE POST CONNECTION

DETAIL 18B

GRADE



2"X2"X2" 16GA ANGLE CLIP
SECURE TO POST AND RAFTER
WITH #12-14X3/4" SDS
(2) ON TOP AND (2) ON BOTTOM

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

1. TURNDOWN REINFORCING STEEL = ASTM A615 GRADE 60 CONCRETE
MINIMUM 28-DAY SPECIFIED COMPRESSIVE STRENGTH = 3000 PSI BEARING CAPACITY OF 2500 PSF. GENERAL NOTES

CONCRETE MONOLITHIC SLAB DESIGN IS BASED ON A MINIMUM SOIL (3) #4 REBAR CONT. T & B **EXPANSION ANCHOR** MIN. COVER = 3" SECTION Y-Y -1'-10"-TS RAFTER COLUMN TS BASE RAIL CONCRETE STRIP SUBGRADE GRADE COMPACT 30'-0" MAXIMUM SPAN 1/2" DIA EXPANSION ANCHOR TYP. **OPTIONAL CONCRETE STRIP FOOTING** CONCRETE STRIP FOOTING PLAN FOOTING LENGTH VARIES BASE RAIL LENGTH VARIES TS BASE RAIL TS COLUMN TYP. CONCRETE STRIP FOOTING GENERIC PLANS ARE NOT VALID WITHOUT A RAISED SEAL & BLUE INK SIGNATURE. (1) SET OF SIGNED AND SEALED GENERIC ENGINEERING IS VALID FOR (1) STRUCTURE ONLY. REVISION 1: CONTRACTOR: DRAWN BY: DESIGN DATE: FLORIDA ENGINEERING LLC STEEL BUILDINGS AND STRUCTURES INC. 4161 TAMIAMI TRAIL, UNIT 101 800PIEDMONT TRIAD WEST DR., PORT CHARLOTTE, FLORIDA 33952 MOUNT AIRY, NC 27030 DATE SK (941) 391-5980 PROJECT ADDRESS: 01/15/2024 FLÉng.com DATE 12'-30' WIDE ENCLOSED 11 of 13 Orders@FLEng.com SHEET:

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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 MEDIUM TO VERY LOOSE DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT EVERY 5' OR EVERY POST (LEG). 3. THE UPLIFT/BEARING CAPACITY OF EACH ANCHOR MUST BE EQUAL 1. TIMBER BASE TO BE NO. 2 SYP PT OR EQUIVALENT. TO OR GREATER THAN 8.5 KIPS. MAXIMUM SPACING (SEE NOTES) HELICAL ANCHOR (SEE NOTES) SECTION Z-Z TS RAFTER COLUMN -MIN. 6"X6" TIMBER BASE TS BASE RAIL 30'-0" MAXIMUM SPAN-BASE RAIL TYP. OPTIONAL HELICAL ANCHORING ON TIMBER BEAM DETAIL (SEE NOTES) HELICAL ANCHOR 100'-0" MAXIMUM LENGTH-BASE RAIL PLAN TYP. TS COLUMN TYP. GENERIC PLANS ARE NOT VALID WITHOUT A RAISED SEAL & BLUE INK SIGNATURE. (1) SET OF SIGNED AND SEALED GENERIC ENGINEERING IS VALID FOR (1) STRUCTURE ONLY. REVISION 1: REVISION 2: DRAWN BY: CONTRACTOR: DESIGN DATE: FLORIDA ENGINEERING LLC STEEL BUILDINGS AND STRUCTURES INC. 4161 TAMIAMI TRAIL, UNIT 101 800PIEDMONT TRIAD WEST DR... PORT CHARLOTTE, FLORIDA 33952 MOUNT AIRY, NC 27030 NTS SK

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01/15/2024

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CA CERT. #30782 DATE: 01/15/2024

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1. THE STRUCTURE SHALL BE CONSTRUCTED SUCH THAT THE FINISHED FLOOR IS ABOVE DESIGN FLOOD ELEVATION (DFE = BASE FLOOD ELEVATION + 1' FREEBOARD). IF THE CONSTRUCTION IS BELOW DFE, FLOOD VENTS SHALL BE INSTALLED PER 2023 FLORIDA BUILDING CODE, RESIDENTIAL (8TH EDITION), SECTION R322.2.2. FLOOD VENTS PROVISION IN FLOOD HAZARD AREAS (FLOOD ZONE A/V): 2. CONTRACTOR TO VERIFY ELEVATIONS IN THE FIELD.

FLOOD VENT INSTALLATION NOTES:

1. MINIMUM VENT SPACE REQUIRED = 1 SQ. IN. OF OPEN VENT AREA PER SQ. FT. OF

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

5. FLOOD VENT DETAIL COMPLIES WITH FEMA/NFIP.
6. PREFABRICATED FLOOD VENTS MEETING THE REQUIREMENTS OF FEMA/NFIP MAY BE 4. TOTAL OPEN AREA OF VENT = L X H (MIN. 12").

FS-1608

 $18\frac{1}{2}^{\circ} \times 10\frac{1}{2}^{\circ}$ 

FS-1616

 $18\frac{1}{2} \times 18\frac{1}{2}$ 

191

158.2

97

80.7

VENT MODEL

(WIDHT x HEIGHT) **VENT SIZE** 

SIZE

(Width x Height) (in.)

(sq. ft.)

NET FREE AREA (sq. in.)

FLOOD SOLUTIONS STATIC FLOOD VENTS FL #17588-R1

ROUGH OPENING

ENCLSOED AREA COVERAGE

FS-1412

 $17\frac{1}{2} \times 14\frac{1}{2}$ 

14 ½ X 12" 16 X 16 16 X 8

129

106.7

FS-1608-HEX

 $\times 10^{\frac{1}{2}}$ 

110

91.4

1'-0" MAX. COLUMNS AND BASERAIL MATCHING ADJACENT FRAMING MEMBERS 1/2"-18GA S OR F EXPANDED METAL ATTACH WITH MCNICHOLS SQUARE FASTENERS OR APPROVED EQUAL AT 6" O.C. ATTACH WITH METAL TEK SCREWS TYPICAL FLOOD VENT DETAIL TS BASE RAIL Н 12" MIN. TS COLUMN GRADE

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5	5	HS	JE.	01/15/2024	12'-30' WIDE ENCLOSED



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PROJECT NO. 2401113

CA CERT. #30782