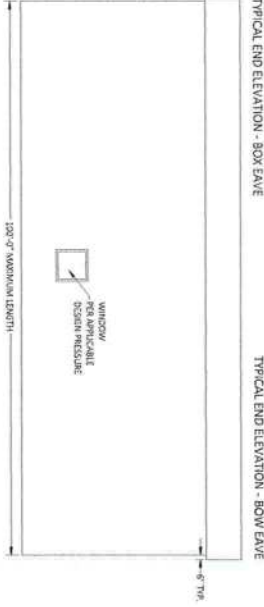
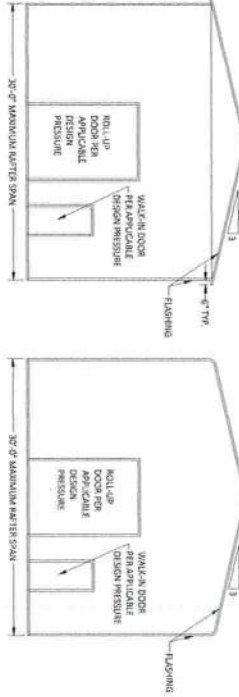


ENCLOSED METAL BUILDING DESIGN
MAXIMUM 30'-0" WIDE X 100'-0" LONG X 20'-0" HIGH (EAVE)
BOX EAVE FRAME / BOW EAVE FRAME



- APPLICABLE CODES AND STANDARDS:**
- 2023 FLORIDA BUILDING CODE - RESIDENTIAL
 - ASCE 7-22 MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
 - ACI 318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - ACI 308-16 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
 - AWG D11 STRUCTURAL WELDING
- DESIGN LOADS:**
- DEAD LOAD = 1.5 PSF
 - WIND LOAD = 12 PSF
 - WIND PRESSURE CATEGORY = I
 - ULTIMATE WIND SPEED = 120 MPH
 - NOMINAL WIND SPEED = 94 MPH
- INSTALLATION NOTES AND SPECIFICATIONS:**
- THESE PLANS BELONG EXCLUSIVELY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM (WFRS), COMPONENTS AND CLADDING (C&C), AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING BUT NOT LIMITED TO PROPERTY SET-BACKS, 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 STRUCTURE AND LIVE AND WIND LOADS. UPGRADES NOT SPECIFICALLY ADDRESSED HEREIN, SUCH AS WINDOWS, DOORS, OR ANOTHER COMPONENT NOT LISTED IN THE BUILDING CODE APPROVED PRODUCT LIST, AND NOT PROVIDED AND INSTALLED BY THE CONTRACTOR, WHICH CAUSE ADDITIONAL LOADS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR FAILURE OR STRUCTURAL DAMAGE DUE TO THE EXTRA LOADS.
 - ALL STEEL TUBING SHALL BE 30 PSI GALVANIZED STEEL. ALL FASTENERS SHALL BE ZINC COATED STEEL.
 - END WALL COLUMNS (POST) AND SIDE WALL COLLUMS ARE EQUIVALENT IN SIZE AND SPACING TO NO.
 - SPECIFICATIONS APPLICABLE TO 30 GA METAL PANELS FASTENED DIRECTLY TO 2.57X2.7X14 GA TUBE STEEL (SI) FRAMING MEMBERS FOR VERTICAL PANELS. 29 GA METAL PANELS SHALL BE FASTENED DIRECTLY TO 18 GA HOT CHANNELS UNO.
 - AVERAGE FASTENER SPACING OR CENTERS ALONG PARTS ON PURLINS AND POSTS, INTERIOR = 9" AND END = 6" MAX.
 - FASTENERS CONSIST OF #12-1/4X4/8" SELF-DRILLING SCREWS (SDS), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 30'-0" OR LESS, AND ROOF SLOPES OF 1:4" (3:12 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 (SOIL NAILS) CONSIST OF #4 REBARS WITH WELDED NUT X 3/8" 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 IN ALL BATTER SPACING IS 5'-0" MAX.
 - PURLIN SPACING IS 4'-0" MAX.
 - WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 RISK CATEGORY = I
 SOIL SITE CLASS = D
 R = 3.25 I_e = 1.0 S₁ = 0.087 g V = CSW S₂ = 0.084 g
 - 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:
 1) BFE (BASE FLOOD ELEVATION) + 2'-0"
 2) ONE (1) DRY DESIGN FLOOD ELEVATION
 3) THE MINIMUM ELEVATION MAINTAINED BY THE BUILDING CODES ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

ADJUSTED C & C WIND PRESSURES (ROOF, ASD, PSF)		ADJUSTED C & C WIND PRESSURES (WALL, ASD, PSF)	
EFFECTIVE WIND AREA (SQ. FT.)	130.00	EFFECTIVE WIND AREA (SQ. FT.)	100.00
ALL ZONES (POSITIVE) =	NA	ALL ZONES (POSITIVE) =	25.8
ZONE 1 (NEGATIVE) =	NA	ZONE 4 (NEGATIVE) =	-28.6
ZONE 2 (NEGATIVE) =	NA	ZONE 5 (NEGATIVE) =	-33.8
ZONE 3 (NEGATIVE) =	44.1	EFFECTIVE WIND AREA (SQ. FT.)	20.00
ZONE 1 (POSITIVE) =	44.1	ALL ZONES (POSITIVE) =	20.00
ZONE 2 (POSITIVE) =	-21.3	ZONE 4 (NEGATIVE) =	-27.7
ZONE 3 (POSITIVE) =	-21.3	ZONE 5 (NEGATIVE) =	-32.0
ZONE 1 (NEGATIVE) =	-71.8	EFFECTIVE WIND AREA (SQ. FT.)	50.00
ZONE 2 (NEGATIVE) =	-71.8	ALL ZONES (POSITIVE) =	24.8
ZONE 3 (NEGATIVE) =	-89.1	ZONE 4 (NEGATIVE) =	-26.4
EFFECTIVE WIND AREA (SQ. FT.)	20.00	ZONE 5 (NEGATIVE) =	-29.5
ALL ZONES (POSITIVE) =	NA	EFFECTIVE WIND AREA (SQ. FT.)	300.00
ZONE 1 (NEGATIVE) =	NA	ALL ZONES (POSITIVE) =	300.00
ZONE 2 (NEGATIVE) =	38.9	ZONE 4 (NEGATIVE) =	-31.2
ZONE 3 (NEGATIVE) =	-38.9	ZONE 5 (NEGATIVE) =	-37.7
ZONE 1 (POSITIVE) =	-48.5	EFFECTIVE WIND AREA (SQ. FT.)	500.00
ZONE 2 (POSITIVE) =	-48.5	ALL ZONES (POSITIVE) =	32.9
ZONE 3 (POSITIVE) =	-65.8	ZONE 4 (NEGATIVE) =	-24.6
ZONE 1 (NEGATIVE) =	-82.4	ZONE 5 (NEGATIVE) =	-25.8
ZONE 2 (NEGATIVE) =	-82.4	EFFECTIVE WIND AREA (SQ. FT.)	300.00
ZONE 3 (NEGATIVE) =	-100.00	ALL ZONES (POSITIVE) =	300.00
EFFECTIVE WIND AREA (SQ. FT.)	50.00	ZONE 4 (NEGATIVE) =	-24.6
ALL ZONES (POSITIVE) =	NA	ZONE 5 (NEGATIVE) =	-25.8
ZONE 1 (NEGATIVE) =	NA	EFFECTIVE WIND AREA (SQ. FT.)	300.00
ZONE 2 (NEGATIVE) =	38.9	ALL ZONES (POSITIVE) =	300.00
ZONE 3 (NEGATIVE) =	-38.9	ZONE 4 (NEGATIVE) =	-24.6
ZONE 1 (POSITIVE) =	-47	ZONE 5 (NEGATIVE) =	-24.8
ZONE 2 (POSITIVE) =	-45	EFFECTIVE WIND AREA (SQ. FT.)	500.00
ZONE 3 (POSITIVE) =	-55.6	ALL ZONES (POSITIVE) =	32.9
ZONE 1 (NEGATIVE) =	-82.4	ZONE 4 (NEGATIVE) =	-24.6
ZONE 2 (NEGATIVE) =	-82.4	ZONE 5 (NEGATIVE) =	-25.8
ZONE 3 (NEGATIVE) =	-100.00	EFFECTIVE WIND AREA (SQ. FT.)	1000.00
EFFECTIVE WIND AREA (SQ. FT.)	100.00	ALL ZONES (POSITIVE) =	1000.00
ALL ZONES (POSITIVE) =	NA	ZONE 4 (NEGATIVE) =	-24.6
ZONE 1 (NEGATIVE) =	NA	ZONE 5 (NEGATIVE) =	-23.4
ZONE 2 (NEGATIVE) =	38.9	EFFECTIVE WIND AREA (SQ. FT.)	1000.00
ZONE 3 (NEGATIVE) =	-38.9	ALL ZONES (POSITIVE) =	1000.00
ZONE 1 (POSITIVE) =	-40.8	ZONE 4 (NEGATIVE) =	-23.4
ZONE 2 (POSITIVE) =	-33.6	ZONE 5 (NEGATIVE) =	-23.4
ZONE 3 (POSITIVE) =	-42.7	EFFECTIVE WIND AREA (SQ. FT.)	1000.00
ZONE 1 (NEGATIVE) =	-54.2	ALL ZONES (POSITIVE) =	1000.00
ZONE 2 (NEGATIVE) =	-54.2	ZONE 4 (NEGATIVE) =	-23.4
ZONE 3 (NEGATIVE) =	-67.8	ZONE 5 (NEGATIVE) =	-23.4

THE ENGINEERING ON THESE PLANS IS THE SPECIFIC FOR STRUCTURE ONLY. ALL THE PROVIDED ADDRESSES!

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PROJECT NO. 2501569 CA CERT. #30782

CONTRACTOR:
STEEL BUILDINGS AND STRUCTURES INC.
 800PIMENT TRIAD WEST DR.,
 MOUNT AIRY, NC 27030

PROJECT ADDRESS:
 DOTY
 8249 SW OLD WIRE RD,
 FORT WHITE FL 32038

DESIGN DATE: 07/19/2025

REVISION 1: DATE SHEET:

REVISION 2: DATE SHEET:

DRAWN BY: JS

SCALE: NTS 1 OF 12

- MEMBER LEGEND:
1. SIDEWALL TS COLUMN = 2.5X2.5X14 GA U.L.C.
 2. SIDEWALL TS COLUMN = 2.5X2.5X14 GA U.L.C.
 3. ENDWALL TS COLUMN = 2.5X2.5X14 GA U.L.C.
 4. RISE BRACE = 2.37X3X16GA CHANNEL
 5. PURLIN = 1.31X7X16GA VWT CHANNEL
 6. U-BRACE = 2.37X7X16GA CHANNEL
 7. ENDWALL COLUMN
- | | |
|------------------|----------------------------|
| MAX. EAVE HEIGHT | RWD WALL COLUMN DIMENSIONS |
| 20' | 12' 2.5X2.5X14 GA |
| 24' | 2.5X2.5X14 GA |

TRUSS LAYOUT - BOX EAVE

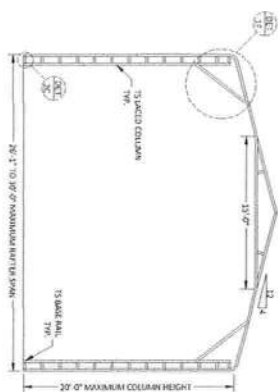
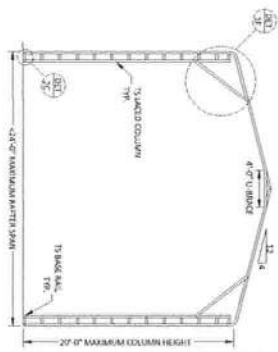
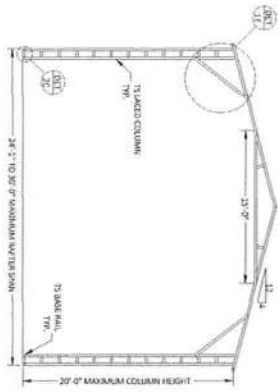
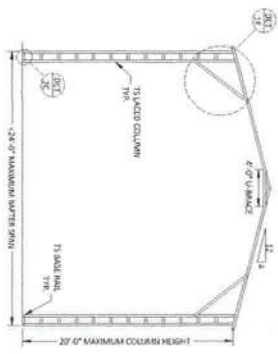
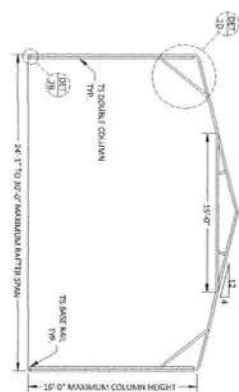
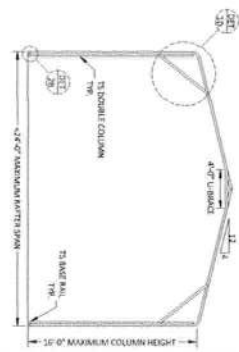
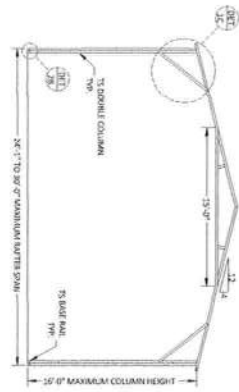
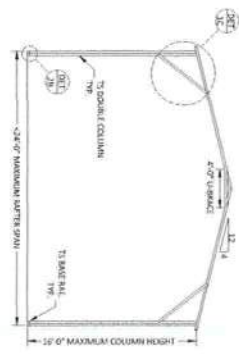
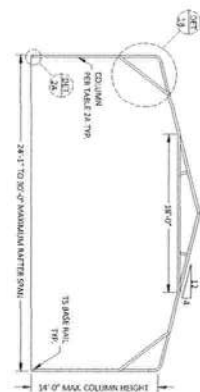
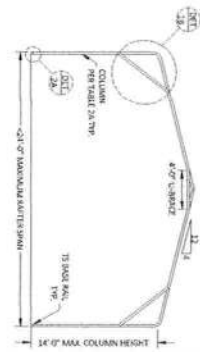
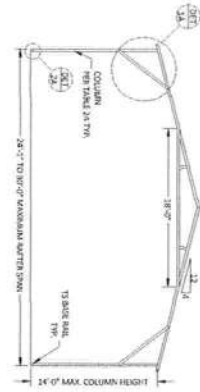
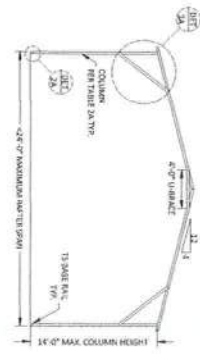


TABLE 2A

10M COLUMN HEIGHT OR MAX. 14'-0"	COLUMN DIMENSIONS
BUILDING LENGTH 4'-0" TO 6'-0"	ALL COLUMNS TO BE 2.5X2.5X14 GA
6'-0" TO 10'-0"	R-10 CENTRAL COLUMNS TO BE 2.5X2.5X14 GA
10'-0" TO 15'-0"	ALL COLUMNS TO BE 2.5X2.5X14 GA

*N = NO. OF COLUMNS PER BAY ILLUSTRATION

TRUSS LAYOUT - BOW EAVE

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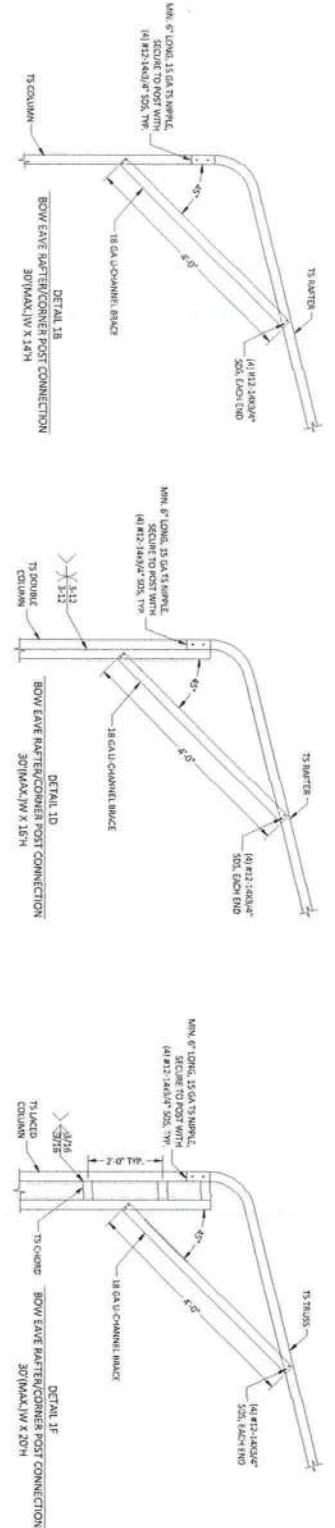
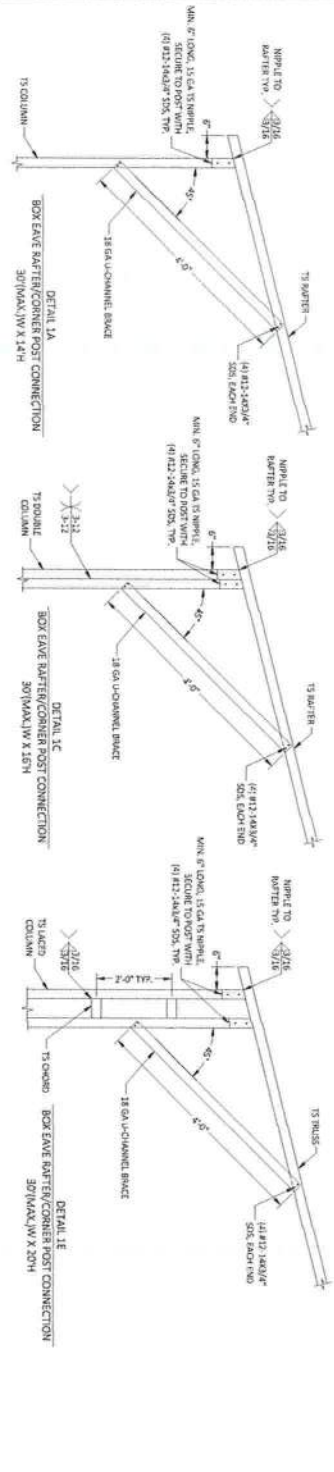
CONTRACTOR:
STEEL BUILDINGS AND STRUCTURES INC.
 800PIEDMONT TRIAD WEST DR.,
 MOUNT AIRY, NC 27030

PROJECT ADDRESS:
 DOTY
 8249 SW OLD WIRE RD,
 FORT WHITE FL 32038

DESIGN DATE: 01/16/2025
 REVISION 1: DATE
 REVISION 2: DATE
 DRAWN BY: JS
 SCALE: NTS
 SHEET: 2 OF 12

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PROJECT NO. 2501569 CA CERT. #30782



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Digitally signed by Richard E Walker
Date: 2025.01.17 13:12:54.0500'



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PROJECT NO. 2501569

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CONTRACTOR:		STEEL BUILDINGS AND STRUCTURES INC. 800PIEDMONT TRIAD WEST DR., MOUNT AIRY, NC 27030	
PROJECT ADDRESS:		DOTY 8249 SW OLD WIRE RD, FORT WHITE FL 32038	
DESIGN DATE:	01/16/2025	REVISION 1:	DATE
REVISION 2:	DATE	SHEET:	3 OF 12
DRAWN BY:	JS	SCALE:	NTS

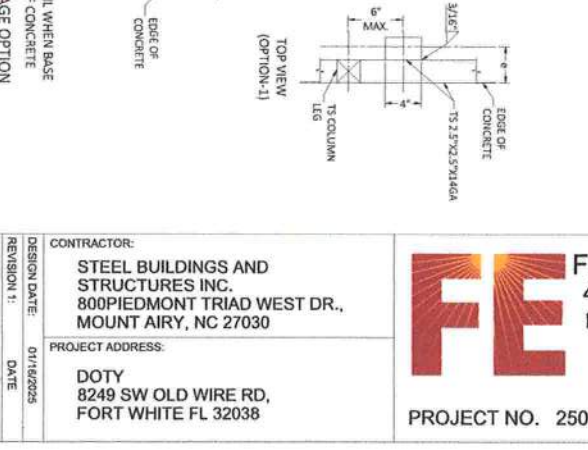
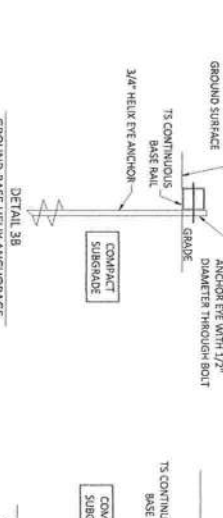
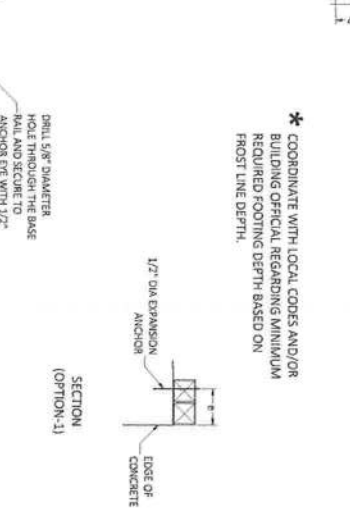
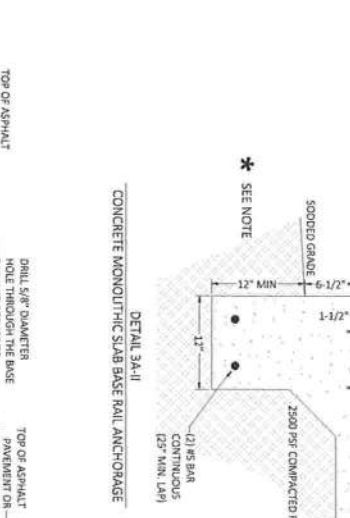
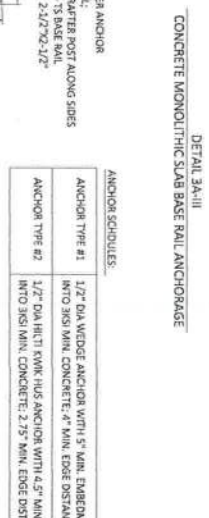
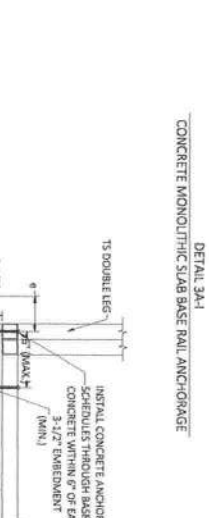
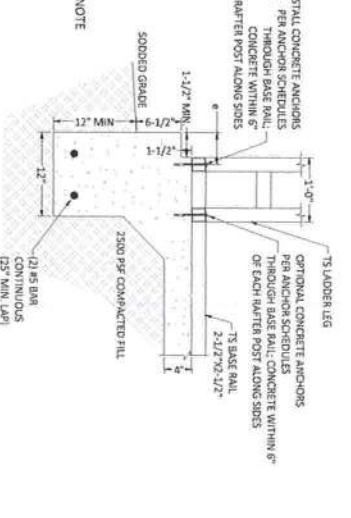
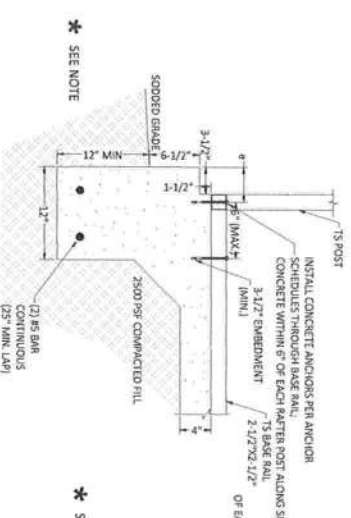
GENERAL NOTES:
 1. CONCRETE MONOLITHIC SLAB DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 2500 PSF.

1. CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
2. ALL OPEN JOISTS OR CONCRETE SPACING OF THE PROPOSED STRUCTURE SHALL BE DESIGNED TO SPAN AWAY FROM THE STRUCTURE.
3. ALL CONCRETE SPECIFICATIONS ARE REQUIRED BY ONE OR MORE REGULATORY AGENCIES AND SHALL BE COMPLIED WITH AS SHOWN ON THE DRAWINGS.
4. ALL CONCRETE SHALL BE PLACED AND FINISHED IN ACCORDANCE WITH THE FOLLOWING:
 - a. MIXTURE DESIGN SHALL BE IN ACCORDANCE WITH ACI 308.1-11.
 - b. MIXTURE DESIGN SHALL BE IN ACCORDANCE WITH ACI 308.1-11.
 - c. MIXTURE DESIGN SHALL BE IN ACCORDANCE WITH ACI 308.1-11.
 - d. MIXTURE DESIGN SHALL BE IN ACCORDANCE WITH ACI 308.1-11.
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 - w. MIXTURE DESIGN SHALL BE IN ACCORDANCE WITH ACI 308.1-11.
 - x. MIXTURE DESIGN SHALL BE IN ACCORDANCE WITH ACI 308.1-11.
 - y. MIXTURE DESIGN SHALL BE IN ACCORDANCE WITH ACI 308.1-11.
 - z. MIXTURE DESIGN SHALL BE IN ACCORDANCE WITH ACI 308.1-11.

1. THE REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC (WELDED WIRE FABRIC) OR REBAR. THE REINFORCEMENT SHALL BE INSTALLED IN THE FIELD OR OVER SPANNING.
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100. REINFORCEMENT SHALL BE INSTALLED IN THE FIELD OR OVER SPANNING.

TABLE A

REQUIRED UPLIFT / BEARING CAPACITY OF HELICAL ANCHORS	RAFTER SPACING (FT.)
4	5
6	11.0
8	13.0
10	15.0
12	17.0
14	19.5
16	21.5
18	23.5
20	25.5



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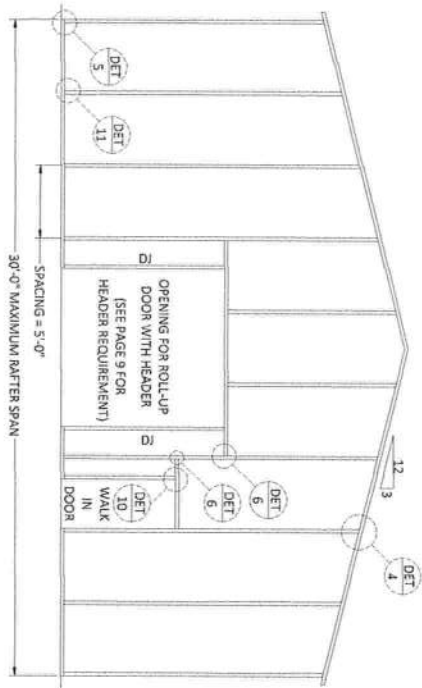


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 CA CERT. #30782

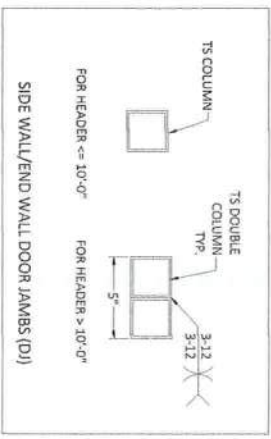
CONTRACTOR:
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 800PIEDMONT TRIAD WEST DR.,
 MOUNT AIRY, NC 27030

PROJECT ADDRESS:
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 8249 SW OLD WIRE RD,
 FORT WHITE FL 32038

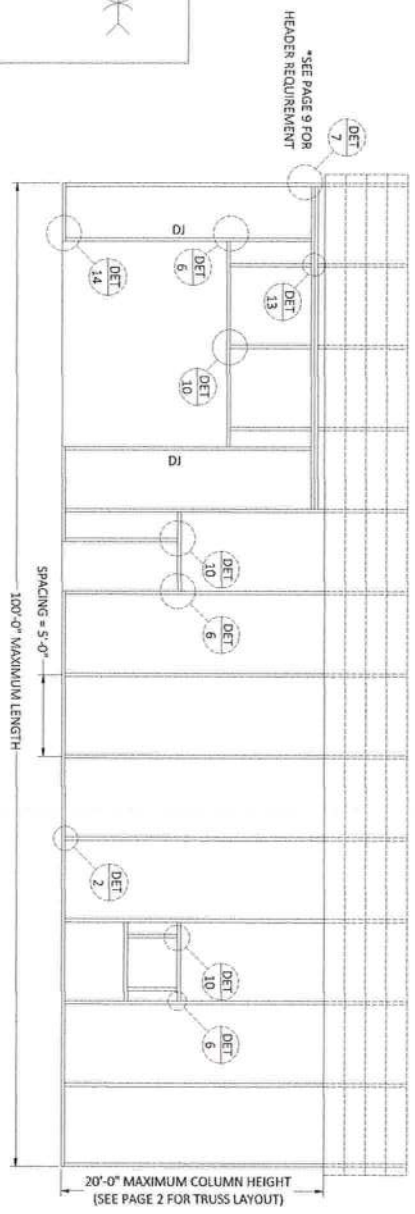
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TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

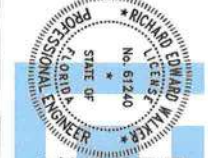


SIDE WALL/END WALL DOOR JAMBS (DJ)



TYPICAL BOX EAVE RAFTER SIDE WALL FRAMING SECTION

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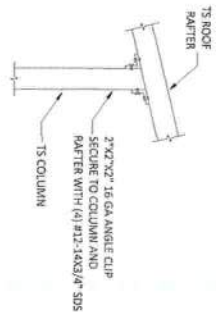
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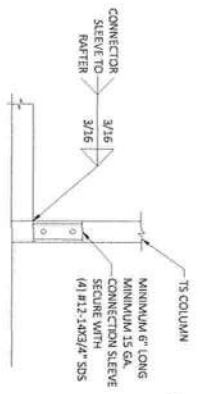
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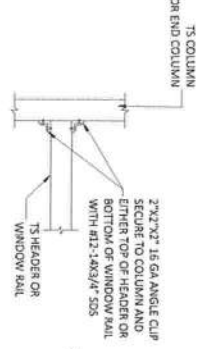
CONNECTION DETAILS



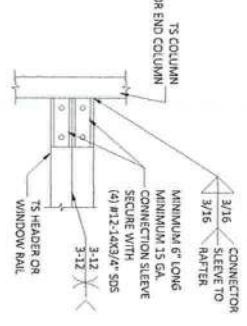
DETAIL 4
END COLUMN/RAFTER CONNECTION



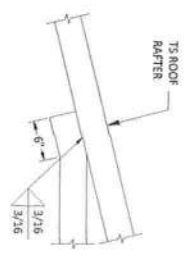
DETAIL 5
END POST/BASE RAIL CONNECTION



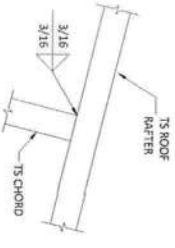
DETAIL 6
HEADER TO COLUMN CONNECTION



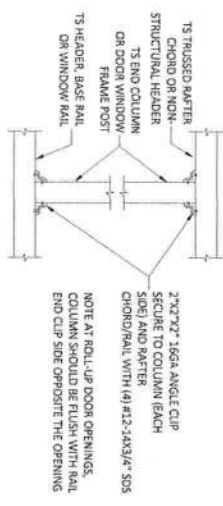
DETAIL 7
DOUBLE HEADER TO COLUMN CONNECTION



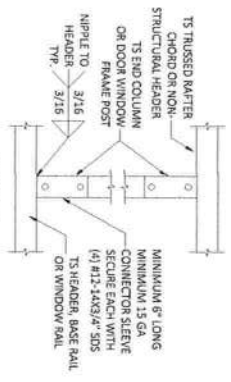
DETAIL 8
COLLAR TIE CONNECTION



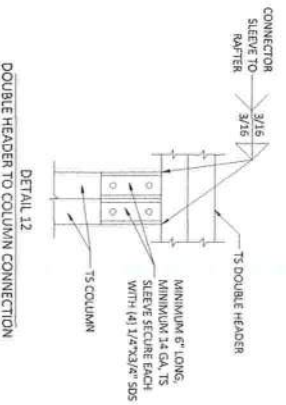
DETAIL 9
RAFTER TO CHORD CONNECTION



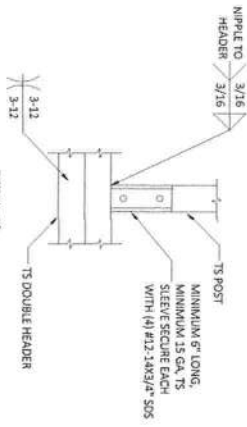
DETAIL 10
POST TO HEADER, BASE RAIL OR WINDOW RAIL CONNECTION (OPTION-1)



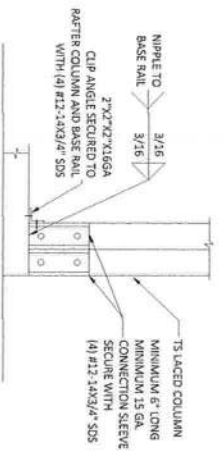
DETAIL 11
POST TO HEADER, BASE RAIL CONNECTION (OPTION-2)



DETAIL 12
DOUBLE HEADER TO COLUMN CONNECTION

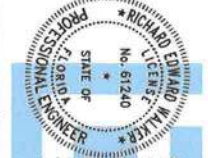


DETAIL 13
POST/DOUBLE HEADER CONNECTION



DETAIL 14
POST/BASE RAIL CONNECTION

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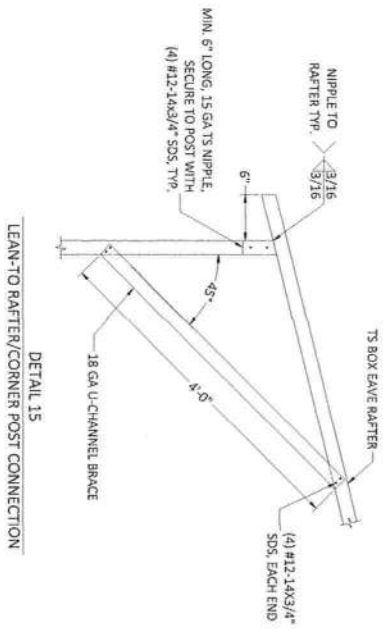
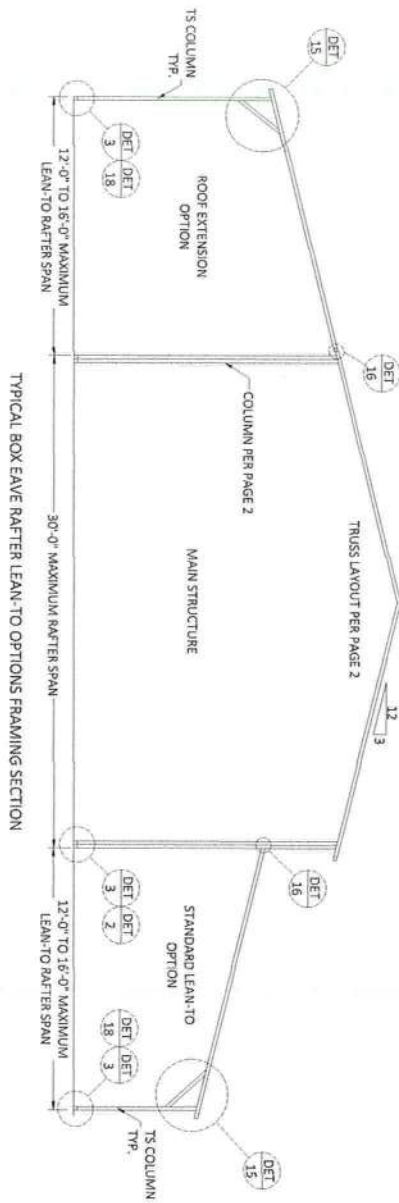


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PROJECT NO. 2501569

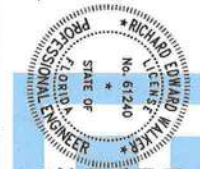
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PROJECT ADDRESS:		DOTY 8249 SW OLD WIRE RD, FORT WHITE FL 32038	
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REVISION 1:		DATE:	
REVISION 2:		DATE:	
DRAWN BY:	JS	SHEET:	6 OF 12
SCALE:	NTS		



DETAIL 15
LEAN-TO RAFTER/CORNER POST CONNECTION

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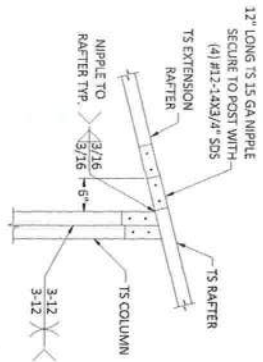
PROJECT NO. 2501569 CA CERT. #30782

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MOUNT AIRY, NC 27030

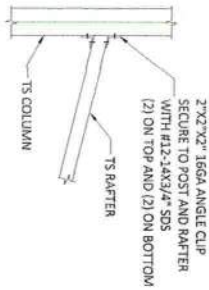
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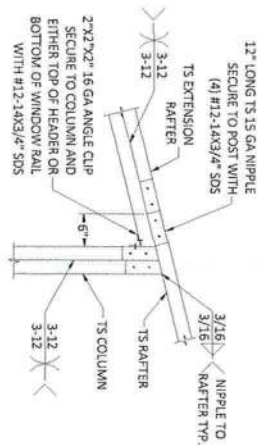
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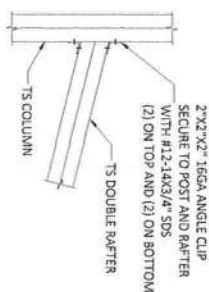
DETAIL 166
SIDE EXTENSION RAFTER/COLUMN CONNECTION
FOR RAFTER SPANS LESS THAN 12'-0"



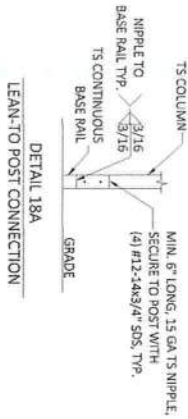
DETAIL 177
LEAN TO RAFTER/COLUMN CONNECTION
FOR RAFTER SPANS LESS THAN 12'-0"



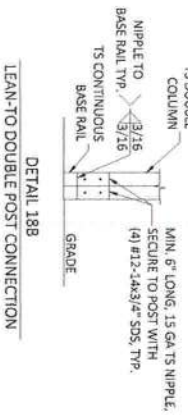
DETAIL 168
SIDE EXTENSION RAFTER/COLUMN CONNECTION
FOR RAFTER SPANS BETWEEN 12'-0" AND 16'-0"



DETAIL 179
LEAN TO RAFTER/COLUMN CONNECTION
FOR RAFTER SPANS BETWEEN 12'-0" AND 16'-0"



DETAIL 18A
LEAN TO POST CONNECTION



DETAIL 18B
LEAN TO DOUBLE POST CONNECTION

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Walker
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RICHARD E. WALKER
P.E.
No. 617240
STATE OF FLORIDA
PROFESSIONAL ENGINEER

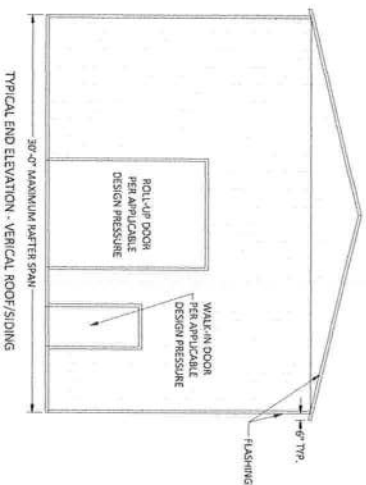
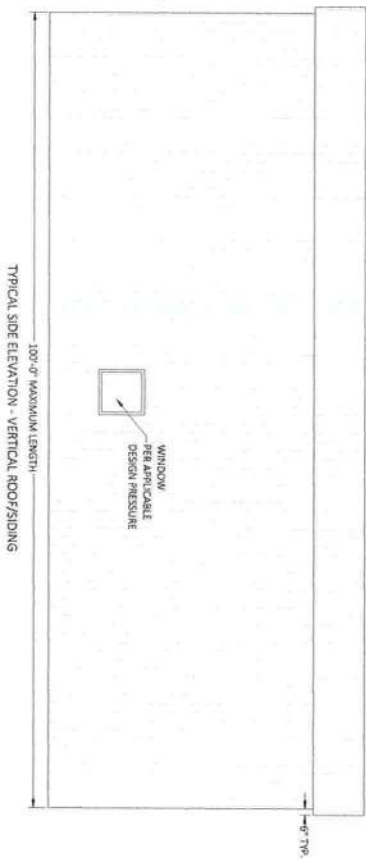


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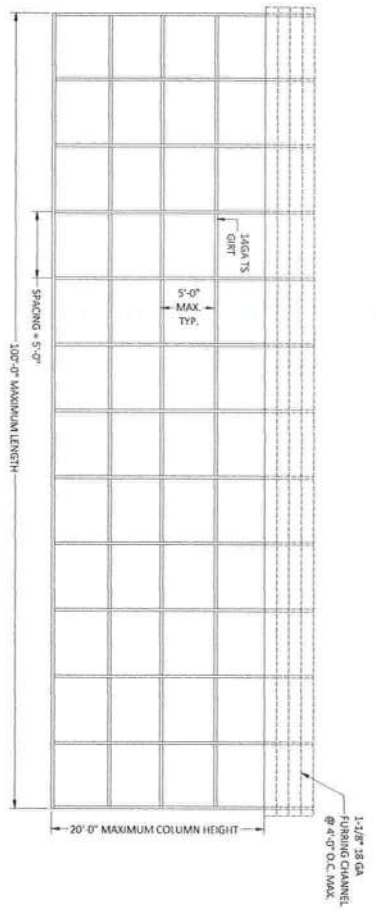
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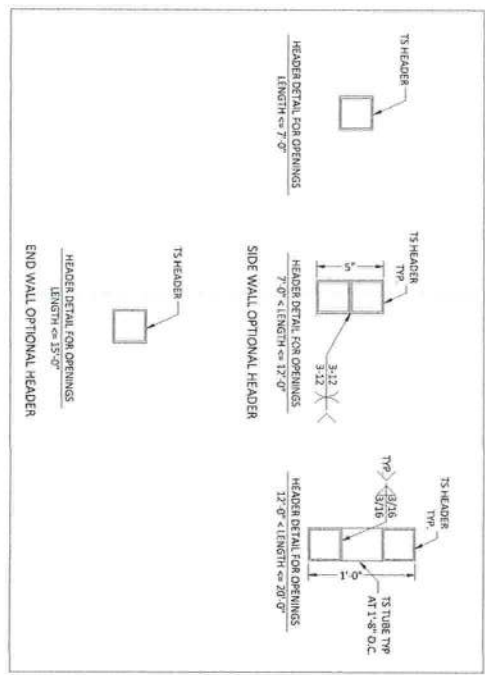
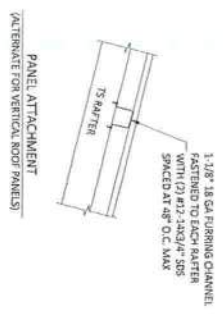
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PROJECT ADDRESS:		DOTY 8249 SW OLD WIRE RD, FORT WHITE FL 32038	
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BOX EAVE FRAME RAFTER ENCLOSED BUILDING



TYPICAL RAFTER/POST SIDE FRAME SECTION



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Richard E. Walker
 No. 61240
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
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CA CERT. #30762

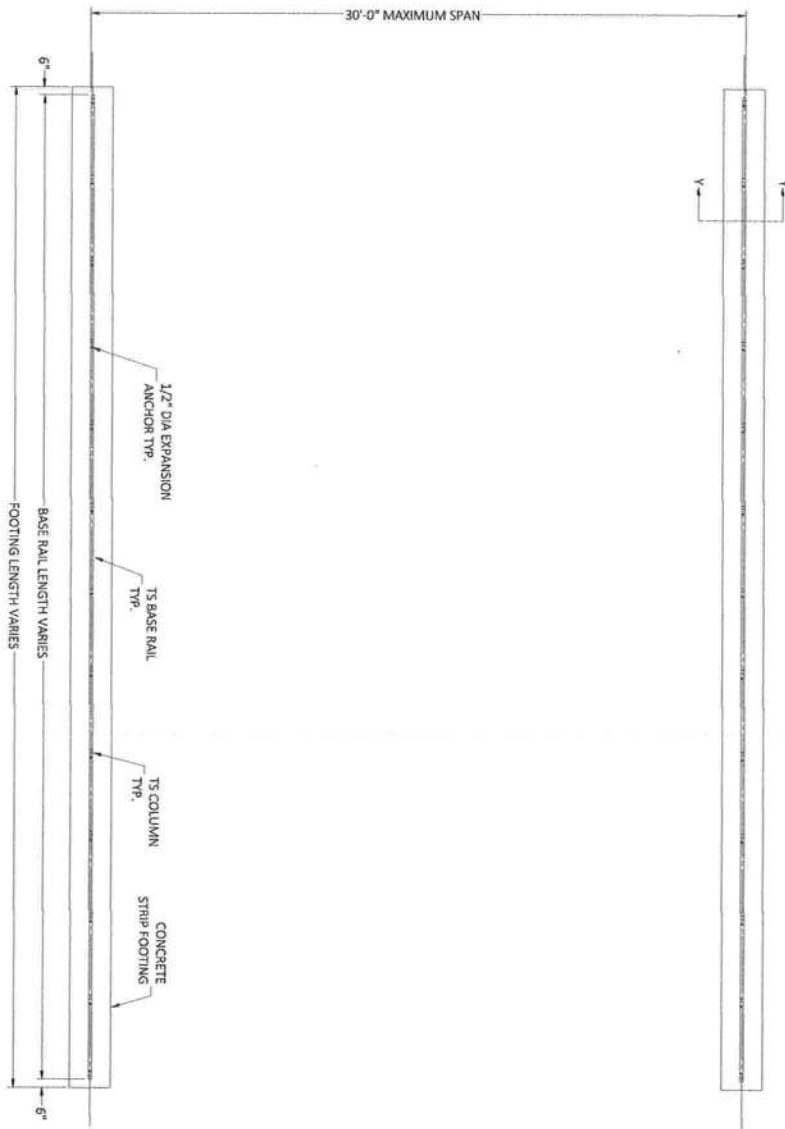
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DESIGN DATE:	01/16/2025	DATE:	
REVISION 1:		DATE:	
REVISION 2:		DATE:	
DRAWN BY:	J.S.	SHEET:	
SCALE:	N.T.S.	9	OF 12

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

- 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



CONCRETE STRIP FOOTING PLAN

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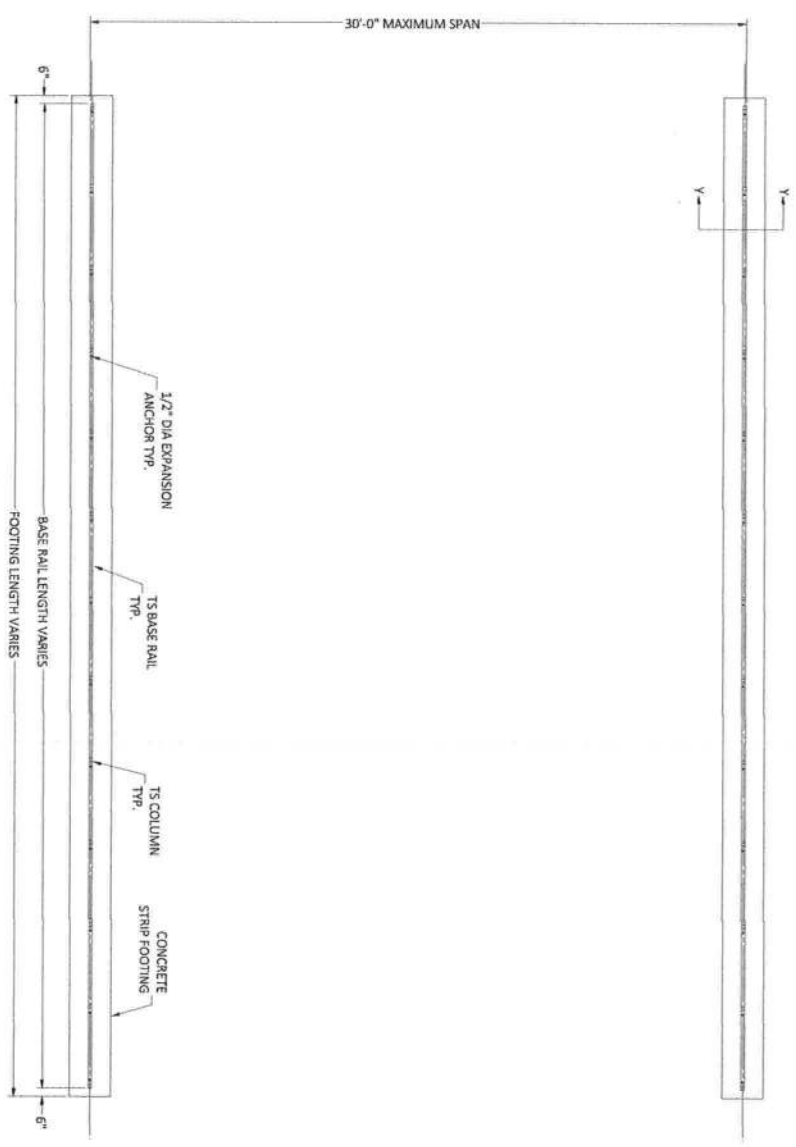
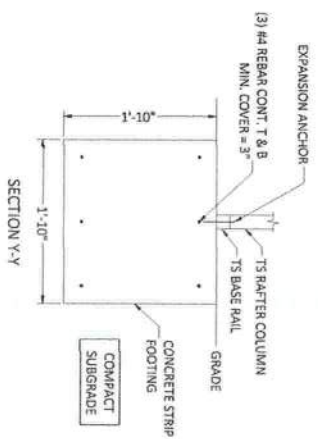
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PROJECT NO. 2501569

CA CERT. #30782

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PROJECT NO. 2501569 CA CERT. #30762

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PROJECT ADDRESS:		DOTY 8249 SW OLD WIRE RD, FORT WHITE FL 32038	
DESIGN DATE:	07/18/2025	REVISION 1:	DATE
REVISION 2:	DATE	SHEET:	
DRAWN BY:	JS	SCALE:	1 1/4" = 1'-0"