

General Notes**A. CONCRETE & FOUNDATION DESIGN:**

1. ALL CONCRETE GRADE BEAMS AND FOOTINGS SHALL BE 3000 PSI MINIMUM.
2. ALL CONCRETE FILLED SUPPORTED SLABS SHALL BE 2500 PSI MINIMUM, 3 1/2" NOMINAL THICKNESS.
3. FIBERMESH (3/4" PER CUBIC YARD MIN.) MEETING APPROPRIATE ACI AND ASTM REQUIREMENTS MAY BE USED IN LIEU OF WELDED WIRE MESH.
4. ALL SLABS ON GRADE SHALL BE 4" THICK WITH FIBERMESH.
5. ALL REINFORCING SHALL CONFORM TO ASTM A615, BE GRADE 60 (60 KSI MIN.) DEFORMED BARS. #3 BARS MAY BE GRADE 40 BE 3000 PSI MIN., 2" MINIMUM THICKNESS.
6. ALL OVER POUR CONCRETE FILLED SUPPORTED SLABS SHALL BE 3000 PSI MIN., 2" MINIMUM THICKNESS.
7. SOIL BEARING PRESSURE SHALL BE A MINIMUM OF 1500 PSF.
8. THE CONCRETE SHALL CONFORM TO ASTM C94 FOR THE FOLLOWING:
 - OPC (PORTLAND CEMENT TYPE 1, - ASTM C 150).
 - AGGREGATES - #6 STONE, ASTM C 33 SIZE NO. 67 LESS THAN 3/4".
 - AIR ENTRAINING +/- 1% - ASTM C 260.
 - WATER REDUCING AGENT - ASTM C 494.
 - CLEAN POTABLE WATER.
9. OTHER ADMIXTURES SHALL NOT BE PERMITTED.
10. PREPARE & PLACE CONCRETE ACCORDING TO AMERICAN CONCRETE INSTITUTE MANUAL STANDARD PRACTICE, PART 1, 11. IF UTILIZING EXISTING CONCRETE FOR FOUNDATION, CONCRETE SHALL BE A MINIMUM OF 4" IN THICKNESS, VISIBLE FREE OF ANY STRUCTURAL EXCESSIVE CRACKING, SPALLING OR OTHER DETERIORATION.

B. MASONRY:

1. CONCRETE MASONRY UNITS (CMU) SHALL BE STANDARD HOLLOW UNITS AND SHALL BE 1900 PSI MINIMUM BASED ON TYPE M OR S MORTAR.
2. ALL MORTAR SHALL BE OF TYPE M OR S.
3. ALL GROUT SHALL BE 2000 PSI MINIMUM AND HAVE MAXIMUM COARSE AGGREGATE SIZE OF 3/8".
4. PROVIDE CLEAN-OUTS FOR REINFORCED CELLS CONTAINING REINFORCEMENT WHEN GROUT POUR EXCEEDS 5'-0" IN HEIGHT.

C. ALUMINUM:

1. ALL STRUCTURAL ALUMINUM SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF 6065-T5 FOR ALLOY WITH A MINIMUM THICKNESS OF 0.040" FOR SUPPORTING MEMBERS.
2. WHERE KICK PLATES ARE USED A MINIMUM THICKNESS OF 0.024" SHALL APPLY.
3. STRUCTURAL ALUMINUM DESIGN CONFORMS TO "PART I-A - SPECIFICATIONS FOR ALUMINUM STRUCTURES - ALLOWABLE STRESS DESIGN" OR "PART I-B - SPECIFICATIONS FOR ALUMINUM STRUCTURES - BUILDING LOAD AND RESISTANCE FACTOR DESIGN" OF THE ALUMINUM DESIGN MANUAL PREPARED BY THE ALUMINUM ASSOCIATION, INC. WASHINGTON D.C. THE FLORIDA BUILDING CODE 7TH EDITION (CHAPTER 16 STRUCTURAL DESIGN & CHAPTER 20 ALUMINUM).
4. WHERE ALUMINUM COMES INTO CONTACT WITH STEEL, OR PRESSURE-TREATED LUMBER PROVIDE DIELECTRIC SEPARATION.
5. ALUMINUM MEMBERS SHALL BE STITCHED WITH NO LESS THAN #10 SMS 6" FROM THE ENDS AND 12" ON CENTER, IF USING #12 SPACING MAY BE 24" ON CENTER.
6. VINYL AND ACRYLIC PANELS SHALL BE REMOVABLE. THEY SHALL BE IDENTIFIED WITH A DECAL ESSENTIALLY STATING "REMOVABLE PANEL SHALL BE REMOVED WHEN WIND SPEEDS EXCEED 75 MPH". DECAL SHALL BE PLACED SO IT IS VISIBLE WHEN PANEL IS INSTALLED.
7. 1/2" X 0.045" NON-STRUCTURAL MEMBERS SHALL BE ATTACHED TO HOT 1/4" X 1-3/4" EMBEDMENT & 24" O.C. MASONRY SCREW FOR CONCRETE & EQUIVALENT SIZE WOOD SCREW WHEN IN WOOD & #10 X 1/2" EMBEDMENT SMS OR TIK SCREWS IN ALUMINUM MEMBERS TYPICAL.

D. FASTENERS:

1. ALL LAG BOLTS SHALL CONFORM TO STAINLESS STEEL TYPE 300 18-8, WITH STANDARD FLAT WASHER UNLESS MANUFACTURER GALVANIZES BOLTS SPECIFIED FOR USE WITH ACQ PRESSURE TREATED WOOD.

2. HEX BOLTS HAS TO BE ASTM A 325, PLATED WITH STANDARD FLAT WASHERS AND NUTS.
3. ALL CONCRETE SCREWS SHALL BE, SIMPSON, HILTI, RAWL, TAPCON, REDHEAD, DYNABOLT, PORTECT OR APPROVED EQUAL.
4. ALL METAL TIES AND ASSOCIATED ACCESSORIES SHALL BE HOT DIPPED GALVANIZED.
5. ALL LAG BOLTS SHALL HAVE A MINIMUM EMBEDMENT OF 8X BOLT DIAMETER INTO STRUCTURAL FRAMING (G=42 MIN).
6. LAG BOLTS AND SCREWS INTO WOOD FRAMING SHALL BE PROVIDED WITH PILOT HOLES HAVING A DIAMETER NOT GREATER THAN 70 PERCENT OF THE THREAD DIAMETER OF THE BOLT OR SCREW. ALL LAG BOLTS AND SCREWS SHALL BE INSERTED IN PILOT HOLES BY TURNING AND UNDER NO CIRCUMSTANCES BY DRIVING WITH A HAMMER.
7. ALL EXPANSION ANCHORS SHALL BE DESIGNED IN ACCORDANCE WITH THE SPECIFIC MANUFACTURER'S REQUIREMENTS AND ALLOWABLE LOADS AND SHALL ONLY BE APPLIED IN CONDITIONS ACCEPTABLE TO MANUFACTURER. FASTENERS SHALL BE A MINIMUM OF SAE GRADE #5 OR BETTER ZINC PLATED.
8. ALL FASTENERS CONNECTING ALUMINUM COMPONENTS OR PRESSURE TREATED LUMBER ARE STAINLESS STEEL TYPE 300 18-8, UNLESS MANUFACTURER GALVANIZED BOLTS SPECIES FOR USE WITH ACQ PRESSURE TREATED WOOD, OR OTHERWISE NOTED ON PLANS.
9. ALL FASTENERS SHALL COMPLY WITH ASTM A153.
10. ALL CONNECTORS SHALL COMPLY WITH ASTM A653 CLASS G-185.
11. FOR SMS, THE MINIMUM CENTER-TO-CENTER SPACING SHALL BE 3/4" AND MINIMUM CENTER-TO-EDGE SHALL BE 1/2" UNLESS NOTED OTHERWISE.

E. REFERENCE STANDARDS:

1. ASTM E 119
2. ASTM E 1300
3. CURRENT ASCE 7 CURRENT ALUMINUM DESIGN MANUAL-AA ASM35, AND SPEC. FOR ALUMINUM PART 1-A, & 1-B
4. ASTM C94
5. ASTM C150
6. ASTM C33
7. ASTM C260
8. ASTM C494
9. ASTM A615
10. ASTM A185

FLORIDA BUILDING CODE 7TH EDITION (CHAPTERS 16, 20 & 23).

ALUMINUM STRUCTURAL MEMBERS**INDEX:****S-1 GENERAL NOTES****S-2 DRAWING****S-3 DETAILS****S-4 DETAILS****S-5 VIF -- VERIFY IN FIELD**

HOLLOW SECTIONS

2 x 2:-----	-----2" x 2" x 0.044"
2 x 3:-----	-----2" x 3" x 0.050"
2 x 4:-----	-----2" x 4" x 0.050"
2 x 5:-----	-----2" x 5" x 0.050"
3 x 3:-----	-----3" x 3" x 0.125"

OPEN BACK SECTIONS

1 x 2:-----1" x 2" x 0.040"

1 x 3:-----1" x 3" x 0.045"

SNAP SECTIONS

2 x 2 SMS:-----2" x 2" x 0.045"

2 x 3 SMS:-----2" x 3" x 0.072"

2 x 4 SMS:-----2" x 4" x 0.045"

3 x 3 SMS:-----3" x 3" x 0.090"

**PROJECT ADDRESS:****CRUZ**

Code

Compliance

Plans Examiner

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Building Department

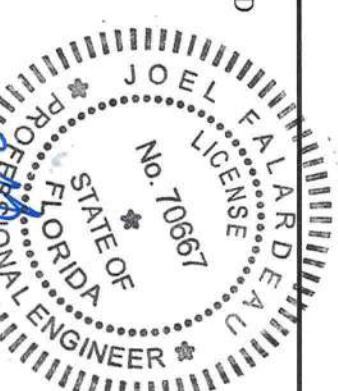
Columbia County

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DOOR LOCATION MAY BE DETERMINED
IN THE FIELD BY THE CONTRACTOR.



PROFESSIONAL ENGINEER'S SEAL

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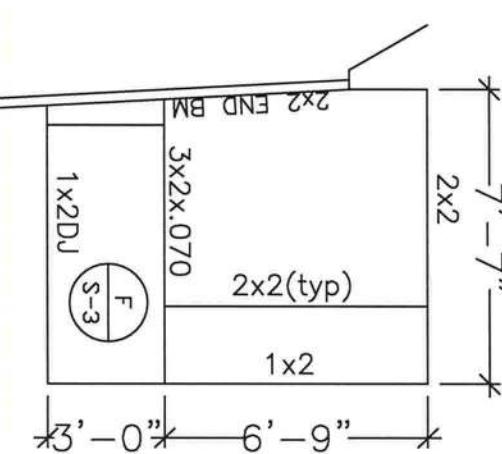
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C.O.A.-#29054



DATE: 08/16/2021

DRAWN BY: ST

REVISION: DATE:

RO 1

RO 2

RO 3

RO 4

Job# 21_0816_217

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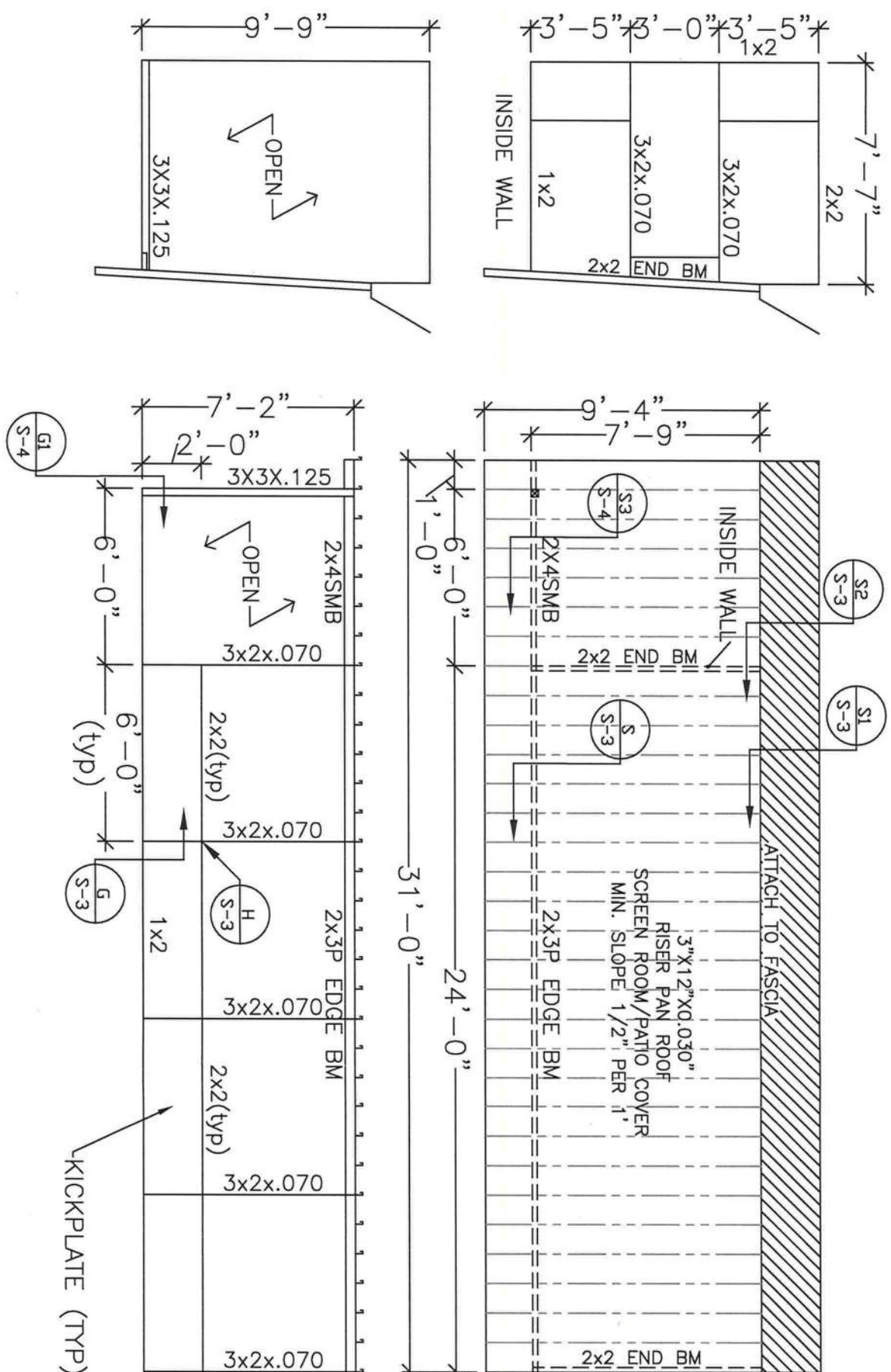
CRUZ
508 SE PLANT

LAKE CITY, FL 32025

CONTRACTOR:
RICHARDSON ALUMINUM, LLC.
692 SW ARLINGTON BLVD
LAKE CITY, FL 32025

FLOOR PLAN

S-2



ALUMINUM RISER PAN—

#10 SMS W/ 1 Ø NEO-WASHERS
@ 8" O.C. (USE SCREW LENGTH
EQUAL TO COMPOSITE PANEL
THICKNESS PLUS (1) INCH)

SEE DETAIL C2 FOR
ALUMINUM RISER PANS

Detail C2

(2) - 1/4" Ø MACHINE
BOLTS WITH 3 1/4"
WASHERS THROUGH
POST AND EDGE BEAM
CONTINUOUS EDGE BEAM

OPTIONAL 1" X 2" FASTENED
TO COLUMN WITH (2) #10 X 2"
SMS INTO SCREW BOSSES
AND FASTENED TO EDGE
BEAM WITH (1) #10 X 1-1/2"
SMS WITHIN 6" OF COLUMN
AND @ 12" O.C. MAX

NOTE: EDGE BEAM (SEE SHEET S-2 FOR SIZE) SHALL BE ORIENTED IN DIRECTION SHOWN.

S
ROOF PANEL TO EDGE BEAM CONNECTION DETAIL
S-3
SCALE: NTS

OPTION #1
(4) #10 X 1 1/2" SMS
INTO SCREW
BOSSES
RECEIVING CHANNEL
(.0625" THICKNESS)

OPTION #2
(2) #10 X 3/4" SMS
(typ) EA (LEG)
(TOTAL 6 SCREWS R.C. (8)
SCREWS ANGLE EA.
CONNECTION)

(2) #10x 3/4" SMS
(typ) EA (LEG)
(TOTAL 6 SCREWS R.C. (8)
SCREWS ANGLE EA.
CONNECTION)

3" (MIN)
ANCHOR SPA
(MIN) (TYP) (SEE TABLE)
ANCHOR SPA
3" (MIN)

NOTES:
1. NUMBER OF ANCHORS "B" IS EACH SIDE INTO THE SECONDARY
ANGLE AND DOES NOT INCLUDE THE ANCHOR INTO THE I-X2.
2. MINIMUM EMBEDMENT OF ANCHORS INTO CONCRETE FOOTING
SHALL BE 2 1/4" AT ALL UPRIGHT LOCATIONS. ALL SCREW
LENGTHS AT UPRIGHT CONNECTIONS SHALL BE OF SUFFICIENT
LENGTH FOR REQUIRED EMBEDMENT INTO CONCRETE FOOTING
WHEN A PAVER DECK IS PRESENT.
3. CONCRETE SCREW ANCHOR DESIGNS ARE BASED ON THOSE LISTED
ON S-1.D. FASTENERS, OTHER BRAND & TYPE SHALL BE APPROVED
BY ENGINEER.

4. 2X3W/1X2 CORNER POST SHALL REQUIRE SAME BASE
5. IF FOR AN IN-FILL, TOP OF COLUMN CONNECTION SIMILAR IF
CONCRETE LINTEL. IF WOOD LINTEL SUBSTITUTE 1/4" Ø X 3" LAG
SCREW FOR 3/8" Ø LIDT FOR BOTH PRIMARY & SECONDARY ANGLES.
6. 2X2X 045 DOOR JAMB MEMBER SHALL CONNECT SIMILAR TO 2X3

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PURLIN OR GIRT TO BEAM OR POST DETAIL
S-3
SCALE: NTS

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2" x 3" OR LARGER UPRIGHT TO CONCRETE W/WO PAVER DETAILS
S-3
SCALE: NTS

G
2" x 3" OR LARGER UPRIGHT TO CONCRETE W/WO PAVER DETAILS
S-3
SCALE: NTS



(4) #10 X 3/4" SMS
FASTENING SECONDARY
ANGLE TO COLUMN (TYP)
EACH SIDE

PRIMARY 2" X 2"
X 0.125" ANGLE
RE REQUIRED FOR 2X3
MEMBER)

SECONDARY ANGLE MIN
0.125" THICK (NOT
RE REQUIRED FOR 2X3
MEMBER)

(2) #10 X 3/4" SMS FASTENING
COLUMN TO PRIMARY ANGLE
(TYP EACH SIDE)

1" X 2" BASE MEMBER
(TYP EACH SIDE)

1" X 2" X 1/8" X BEAM DEPTH"
RECEIVING CHANNEL

W/ (1) 1/4" X 3" CONCRETE
ANCHOR INTO WALL &

(4) #10 X 3/4" SMS EACH
SIDE INTO BEAM

NOTES: WHEN ATTACHING TO WOOD STRUCTURES, WOOD LAG SCREW
ANCHOR DESIGNS SHALL BE OF IDENTICAL SIZE AND EMBEDMENT AS THAT
OF MASONRY ANCHOR SCREWS.

(2) #12 X 2" SCREWS PER 12"
WIDTH CONNECTING
PAN TO HEADER (BOTTOM
OR BACK OF PAN)

NOTE: WHEN ATTACHING TO WOOD STRUCTURES, WOOD LAG SCREW
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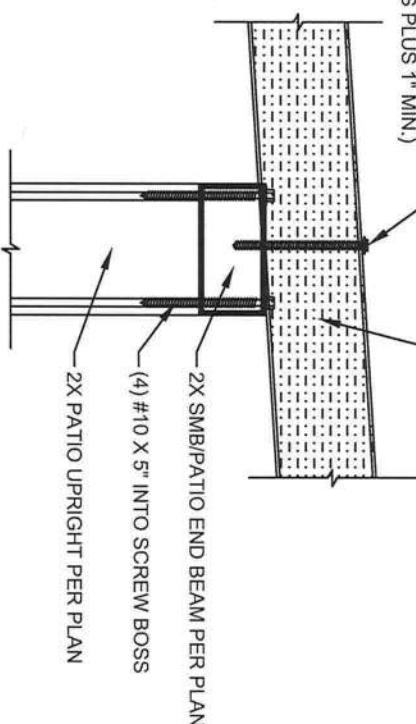
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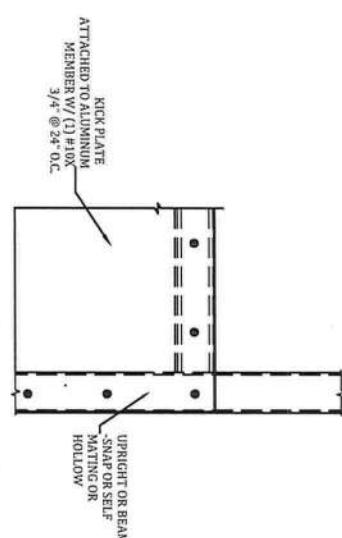
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(2) #12 X 2" SCREWS PER 12"
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#10 TEK SCREW WITH 1-1/4" Ø
NEO-PRENE WASHER @ 8" O.C. (USE
SCREW LENGTH EQUAL TO COMPOSITE
PANEL THICKNESS PLUS 1" MIN.)



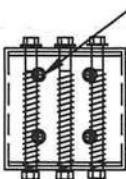
COMPOSITE PANEL ROOF TO END BEAM TO POST CONNECTION DETAIL



NOTE: MINIMUM EMBEDMENT OF

ANCHORS INTO CONCRETE FOOTING SHALL
BE 2-3/4" AT ALL POST LOCATIONS. ALL
SCREW LENGTHS AT POST CONNECTIONS
SHALL BE OF SUFFICIENT LENGTH FOR
REQUIRED EMBEDMENT INTO CONCRETE
FOOTING WHEN A PAVER DECK IS PRESENT.

(4) - 3/8" Ø CONCRETE
SCREW WITH 2-3/4" EMBEDMENT (MIN EDGE
DISTANCE (MIN EDGE
MIN SPACING = 3/4")
MIN SPACING 2")

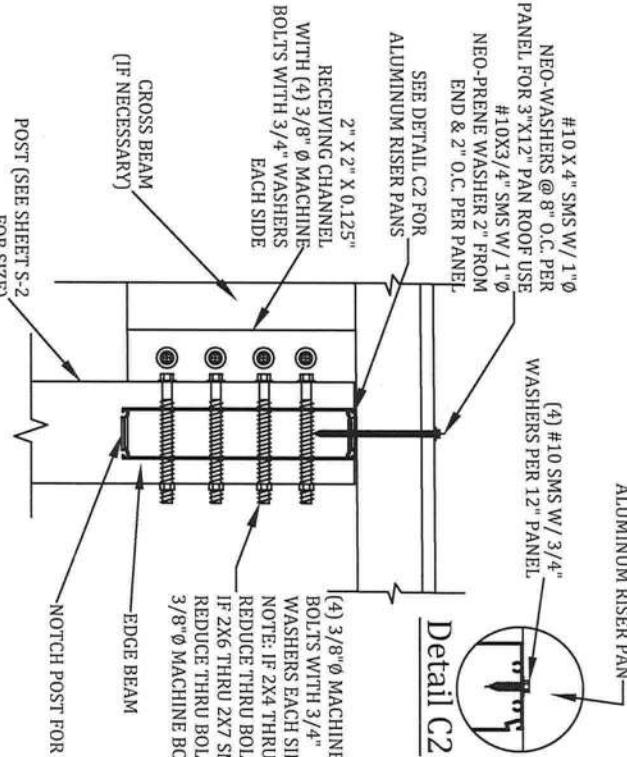


(3) - 1/4" Ø MACHINE
BOLTS WITH WASHERS
(MIN. EDGE DISTANCE = 3/4"
MIN. SPACING = 3/4")
OR (4) #10X 3/4" SMS

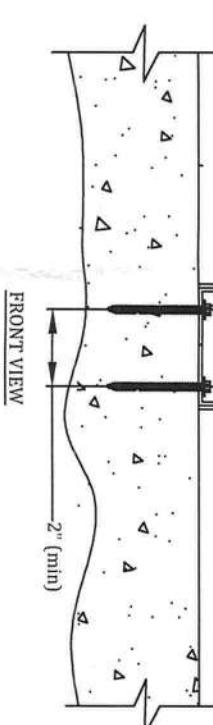
TOP VIEW
3" X 3" 0.125" POST
2" X 2" X 0.125" ANGLE (EXTERNAL OR
INTERNAL) OR 0.125" RECEIVING CHANNEL

(4) - 3/8" Ø CONCRETE
SCREW WITH 2-3/4" EMBEDMENT (MIN EDGE
DISTANCE = 3/4")
MIN SPACING 2")

NOTE: (TOP FLANGE)
(2) 3/8" THRU BOLTS MAY BE USED
IN LIEU OF (3) 1/4" BOLTS
IF DESIRED



NOTE: CONCRETE SCREW ANCHOR DESIGNS ARE BASED ON TITEN HD 3/8" Ø SCREW
ANCHORS. OTHER SIZE OR TYPE OF ANCHORS SHALL NOT BE USED.



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REVISION: DATE: 08/16/2021
DRAWN BY: ST

Job# 21_0816_217
PROJECT ADDRESS:
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CONTRACTOR:
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JOEL FALARDEAU
FLORIDA LICENSE: 53608
PROFESSIONAL ENGINEER'S SEAL
STATE OF FLORIDA
CIVIL ENGINEER
NO. 10661
S-4

S3

ROOF PANEL TO EDGE OR INTERMEDIATE BEAM CONNECTION DETAIL

SCALE: NTS

S4

POST (SEE SHEET S-2
FOR SIZE)

G1
3"X3" POST CONNECTION DETAIL
SCALE: NTS

S-4

DETAILS