## General Notes A. CONCRETE & FOUNDATION DESIGN:

- PSI MINIMUM.

  ALL CONCRETE FILLED SUPPORTED SLABS SHALL BE 2500 PSI MINIMUM, 3 1/2" NOMINAL THICKNESS. ALL CONCRETE GRADE BEAMS AND FOOTINGS SHALL BE 3000
- 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
  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
- OPC (PORTLAND CEMENT TYPE 1,- ASTM C 150). AGGREGATES #6 STONE , ASTM C 33 SIZE NO. 67 LESS THAN
- CLEAN POTABLE WATER. AIR ENTRAINING +/- 1% - ASTM C 260.
  WATER REDUCING AGENT - ASTM C 494.
- OTHER ADMIXTURES SHALL NOT BE PERMITTED.

  9. METAL WELDED WIRE SHALL CONFORM TO ASTM A 185.

  10. PREPARE & PLACE CONCRETE ACCORDING TO AMERICAN CONCRETE INSTITUTE MANUAL STANDARD PRACTICE, PART 1, 2, & 3 ALONG WITH HOT WEATHER CONDITIONS
- RECOMMENDATIONS.

  11. IF UTILIZING EXISTING CONCRETE FOR FOUNDATION. SPALLING OR OTHER DETERIORATION. CONCRETE SHALL BE A MINIMUM OF 4" IN THICKNESS, VISIBLY FREE OF ANY STRUCTURAL EXCESSIVE CRACKING.

1. CONCRETE MASONRY UNITS (CMU) SHALL BE STANDARD HOLLOW UNITS AND SHALL BE 1900 PSI MINIMUM BASED ON TYPE M OR S MORTAR.

- 3.ALL GROUT SHALL BE 2000 PSI MINIMUM AND HAVE 2.ALL MORTAR SHALL BE OF TYPE M OR S.
- 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: ALL STRUCTURA

- MINIMUM REQUIREMENTS OF 6005-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 1-A-ALL STRUCTURAL ALUMINUM SHALL CONFORM TO THE
- SPECIFICATIONS FOR ALUMINUM STRUCTURES ALLOWABLE STRESS DESIGN" OR "PART 1-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 BUILDIN*O (CHAPTER 16 STRUCTURAL DESIGN & CHAPTER 20
- 4. WHERE ALUMINUM COMES INTO CONTACT WITH STEEL, OR SEPARATION.
  ALUMINUM MEMBERS SHALL BE STITCHED WITH NO LESS THAN #10 SMS 6" FROM THE ENDS AND 12" ON CENTER, IF PRESSURE TREATED LUMBER PROVIDE DIELECTRIC
- 6.
- USING #12 SPACING MAY BE 24" ON CENTER.
  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.
  1"X2"X0.045" NON-STRUCTURAL MEMBERS SHALL BE ATTACHED TO HOST WITH 1/4"Ø X 1-3/4" EMBEDMENT & 24" O.C. MASONRY SCREW FOR CONCRETE & EQUIVALENT SIZE WOOD SCREW WHEN IN WOOD & #10X 1/2" EMBEDMENT SMS OR TEK SCREWS IN ALUMINUM MEMBERS TYPICAL.

### D. FASTENERS:

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

- HEX BOLTS HAS TO BE ASTM A 325, PLATED WITH STANDARD FLAT WASHERS AND NUTS.
  ALL CONCRETE SCREWS SHALL BE, SIMPSON, HILTI, RAWL,
- TAPCON, REDHEAD, DYNABOLT, PORTECT OR APPROVED
- EQUAL.
  ALL METAL TIES AND ASSOCIATED ACCESSORIES SHALL BE HOT DIPPED GALVANIZED.
  ALL LAG BOLTS SHALL HAVE A MINIMUM EMBEDMENT OF 8X
- LAG BOLTS AND SCREWS INTO WOOD FRAMING SHALL BE PROVIDED WITH PILOT HOLES HAVING A DIAMETER NOT BOLT DIAMETER INTO STRUCTURAL FRAMING (G=.42 MIN.).
- 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.

  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.

  ALL FASTENERS CONNECTING ALUMINUM COMPONENTS OR PRESSURE TREATED LUMBER ARE STAINLESS STEEL TYPE 300 18-8, UNLESS MANUFACTURER GALVANIZED BOLTS SPECIFIES FOR USE WITH ACQ PRESSURE TREATED WOOD, OR OTHERWISE NOTED ON PLANS.

  ALL FASTENERS SHALL COMPLY WITH ASTM A653 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 OTHER WISE.

#### H REFERENCE STANDARDS:

CURRENT ASCE 7
CURRENT ALUMINUM DESIGN MANUAL-AA ASM35, AND SPEC.

FOR ALUMINUM PART 1-A, & 1-B ASTM C94 ASTM C150 ASTM C33 ASTM C260 ASTM C260

ASTM A615 ASTM A185 FLORIDA BUILDING CODE 7th EDITION (CHAPTERS 16, 20 & 23).

#### T ABBREVIATIONS:

THE FOLLOWING LIST OF ABBREVIATIONS IS NOT INTENDED TO REPRESENT ALL THOSE USED ON THESE DRAWINGS, BUT TO SUPPLEMENT THE MORE COMMON ABBREVIATIONS.

- 1. TYP -- TYPICAL
  2. SIM -- SIMILAR
  3. UON -- UNLESS OTHERWISE NOTED
  4. CONT -- CONTINUOUS
  5. VIF -- VERIFY IN FIELD

#### ç, RESPONSIBILITY:

- CODES, LOCAL ORDINANCES, ETC.

  2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS, NOTIFYING ENGINEER OF ANY DISCREPANCIES BETWEEN DRAWINGS, FABRICATED ITEMS, OR ACTUAL FIELD CONTRACTOR IN ACCORDANCE WITH APPLICABLE BUILDING ALL SITE WORK SHALL BE PERFORMED BY A LICENSED
- CONDITIONS.
  THESE DRAWINGS REPRESENT THE ACCEPTABILITY OF THE SUNROOM' ROOM ADDITION ELEMENTS AS PROVIDED BY THE
- ALL DETAILS ON THESE DRAWINGS ARE ENGINEERED BASED ON INFORMATION PROVIDED BY THE CONTRACTOR AND MANUFACTURER.
  ANY DETAILS NOT SHOWN ARE TO BE ENGINEERED BY A LICENSED P.E. IN ACCORDANCE WITH STANDARD CONTRACTOR
- ENGINEERING PRACTICES.

### H. MISCELLANEOUS:

1. ALUMINUM ADDITIONS ARE NOT TO BE INSTALLED ON A MANUFACTURED HOME, TRAILER HOME, OR PRE-FAB HOME. IF THE EXISTING STRUCTURE IS ONE OF THESE, A SEPARATE 4TH WALL SUPPORT SYSTEM MUST BE ENGINEERED SO THAT NO

2 x 2:

TUBE SECTIONS
-----2" x 2" x 0.090"

ADDITIONAL LOADING IS PLACED ON THE MANUFACTURED

- HOME.
  IF ENCLOSURE CONTAINS A SWIMMING POOL OR SPA, THE ENCLOSURE SHALL COMPLY WITH RESIDENTIAL SWIMMING BARRIER REQUIREMENTS OF THE FBC 7th EDITION R 4501.17 IN
- 3. DOOR LOCATIONS MAY BE DETERMINED IN THE FIELD BY CONTRACTOR
- LIF PAVERS ARE UNDER ALUMINUM MEMBERS THEY SHALL HAVE EPOXY ADHESIVE TO CONCRETE OR IF USING GROUT, ENSURE BONDING AGENT IS USED FIRST AND ADHERED WITH MINIMUM 3000 PSI GROUT.

  SCREENING MATERIAL SHALL BE 18X14X0.013 OR EQUIVALENT DENSITY SCREEN MESH ONLY UNLESS NOTED ON DRAWING S-2.

## DESIGN DATA:

WIND EXPOSURE: RISK CATEGORY: NOMINAL DESIGN WIND SPEED Vasd:

4 20 12

WIND LOADS: SCREEN ROOF: SCREEN WALLS: SOLID ROOF (SCREEN WALL):

FACTOR APPLIED TO SCREEN WIND LOADS FOR 18X14X0.013 OR EQUIVALENT DENSITY SCREEN MESH:

LIVE LOAD: FACTOR APPLIED TO SCREEN WIND LOADS FOR ALLOWABLE STRESS DESIGN:

300 lb. VERTICAL DOWNLOAD ON PRIMARY SCREEN ENCLOSURE MEMBERS. 200 lb. VERTICAL DOWNLOAD ON SCREEN ENCLOSURE PURLINS. 10 PSF VERTICAL DOWNLOAD ON SOLID ROOF.

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oel Falardeau P.E.

FLORIDA LICENSE: 53608

David W. Smith P.E.

ENGINEER OF RECORD:

SIONALENGINER SIONALE STATE

HANGO

Thomas L. Hanson P.E

Services, Inc.

9. SCREEN ROOF TYPE:

00

SOLID ROOF TYPE: 3"X48"X0.024" ELITE EPS COMPOSITE PANEL ROOF 11b FOAM DENSITY, FLORIDA PRODUCT APPROVAL, FL 7561-R5.

# ALUMINUM STRUCTURAL MEMBERS

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"	NS	OPEN BACK SECTIONS	
	" x 3" x 0.125'		3 x 3:
	" x 5" x 0.050"		2 x 5:
	" x 4" x 0.050'	2	2 x 4:
-	" x 3" x 0.050"		2 x 3:
	"x2"x0.044"	2	2 x 2:

1" x 3" x 0.045	1 x 3:
1" x 2" x 0.040	1 x 2:

3 x 3 SMS: 3" x 3" x 0.090"
2 x 4 SMS: 2" x 4" x 0.045"
2 x 3 SMS:2" x 3" x 0.072"
2 x 2 SMS:2" x 2" x 0.045"
SNAP SECTIONS

2" x 9" x 0 072" x 0 224"	2" )	2 x 9 SMB:
2" x 8" x 0.072" x 0.224"	2" >	2 x 8 SMB:
2" x 7" x 0.057" x 0.120"	2" >	2 x 7 SMB:
2" x 6" x 0.050" x 0.120"	2" )	2 x 6 SMB:
2" x 5" x 0.050" x 0.118"	2" >	2 x 5 SMB:
2" x 4" x 0.044" x 0.100"	2" )	2 x 4 SMB:

### ULTIMATE DESIGN WIND SPEED Vult, (3 SECOND GUST): 130 MPH 101 MPH

N/A 23 PSF 20 PSF

7.6 S

EXISTING  $8^{\prime\prime}X8^{\prime\prime}$  FOOTING W/ 4 SLAB MEETS THE REQUIREMENTS TO RESIST THE UPLOADS FOR THE PROPOSED STRUCTURE.

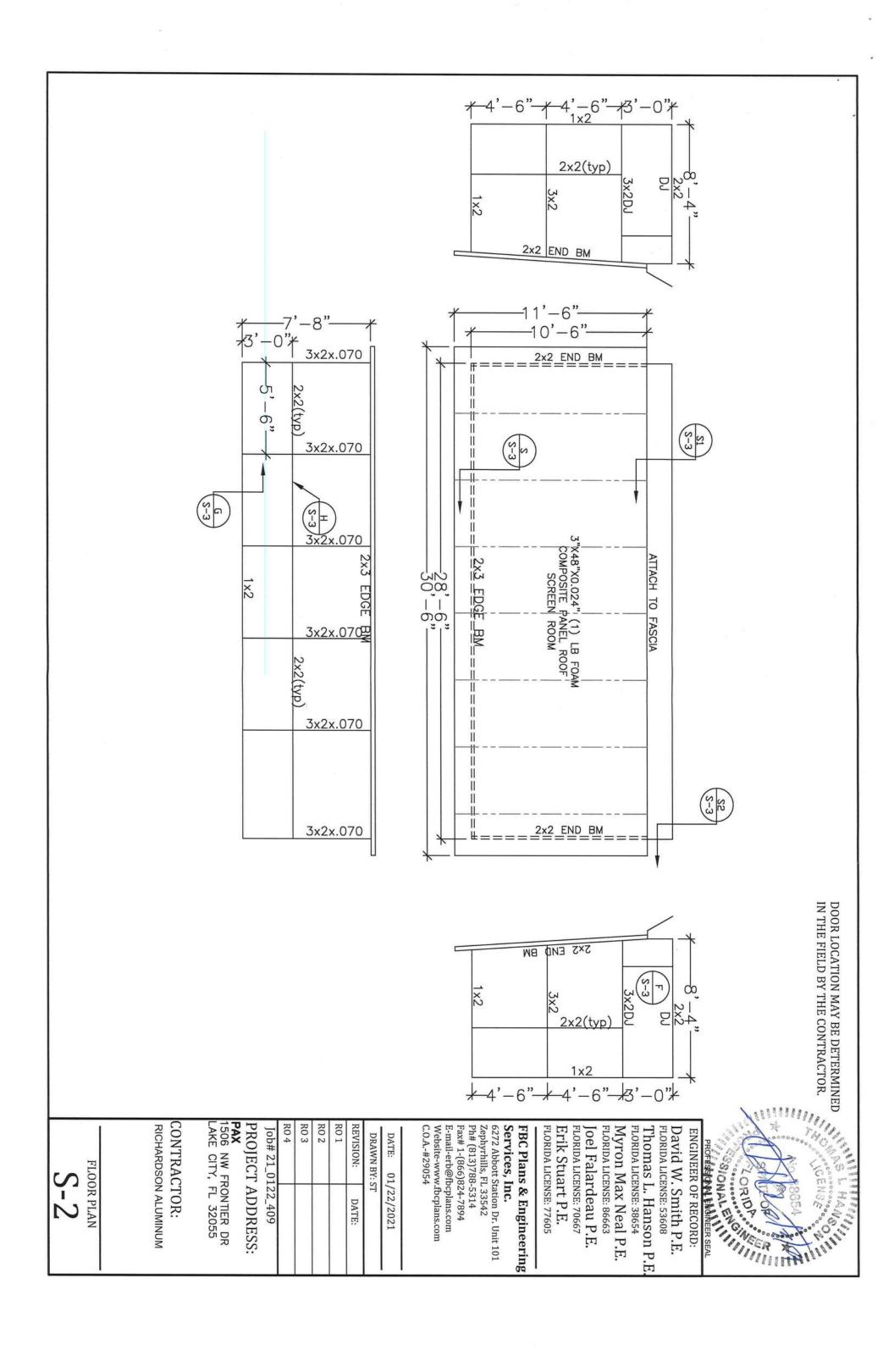
SOLID ROOF TYPE:

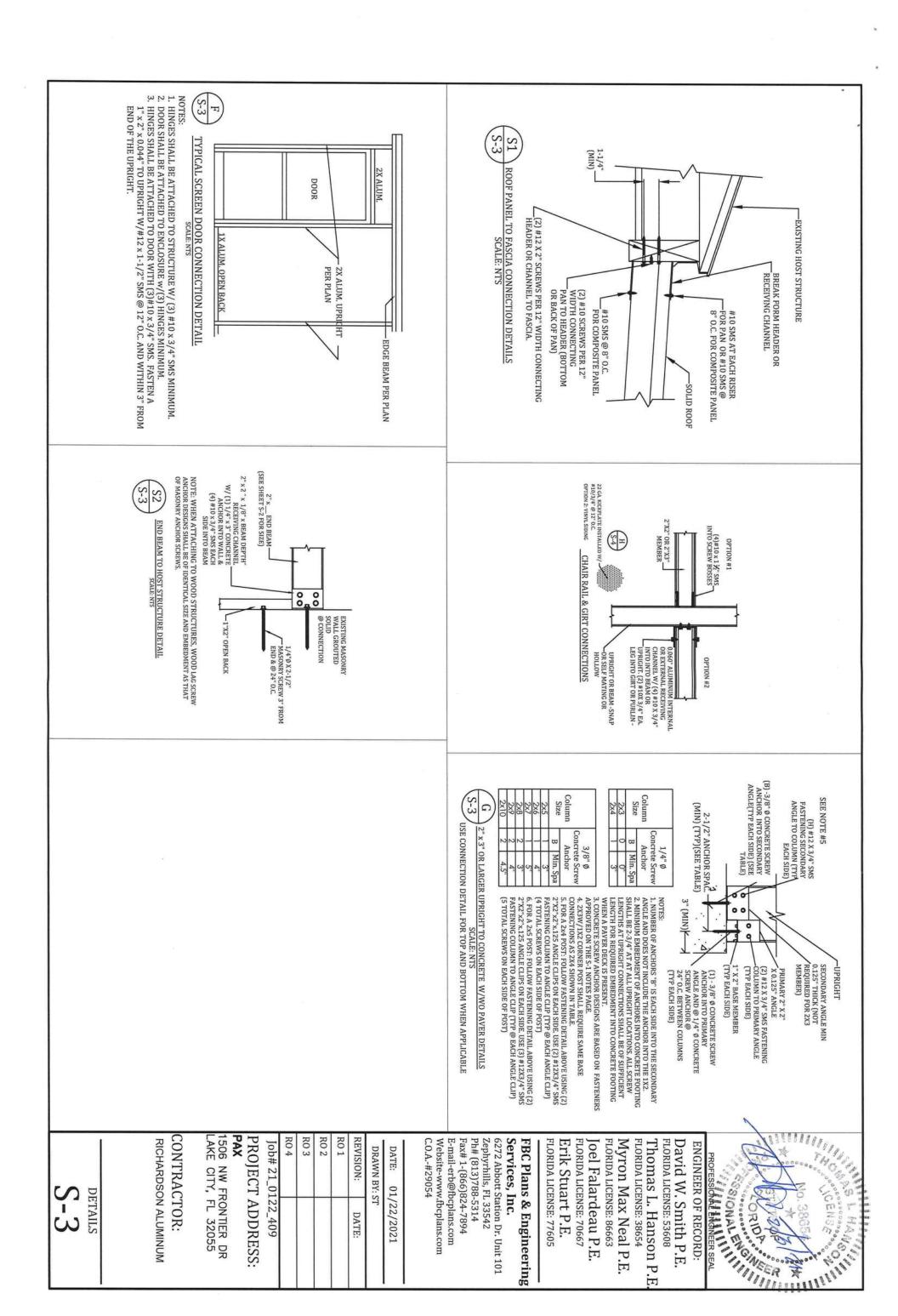
COLUMBIA Recolved

RO 4 RO 3 **RO2** RO 1 REVISION: C.O.A.-#29054 DRAWN BY: ST DATE: 01/22/2021 DATE:

PROJECT ADDRESS: AKE CITY, FL 32055 506 NW FRONTIER DR ob# 21\_0122\_409

CONTRACTOR: RICHARDSON ALUMINUM





DATE:

