A. CONCRETE & FOUNDATION DESIGN: General Notes

ALL CONCRETE GRADE BEAMS AND FOOTINGS SHALL BE 3000

- 2 PSI MINIMUM.

 ALL CONCRETE FILLED SUPPORTED SLABS SHALL BE 2500 PSI MINIMUM, 3 1/2" NOMINAL THICKNESS.
 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
- WATER REDUCING AGENT ASTM C 494. CLEAN POTABLE WATER. AIR ENTRAINING +/- 1% - ASTM C 260.
- OTHER ADMIXTURES SHALL NOT BE PERMITTED.

 METAL WELDED WIRE SHALL CONFORM TO ASTM A 185
- 9. METAL WELDED WIKE SHALL CONCRETE ACCORDING TO AMERICAN 10. PREPARE & PLACE CONCRETE ACCORDING TO AMERICAN CONCRETE INSTITUTE MANUAL STANDARD PRACTICE, PART 1, RECOMMENDATIONS.
- 11. IF UTILIZING EXISTING CONCRETE FOR FOUNDATION, CONCRETE SHALL BE A MINIMUM OF 4" IN THICKNESS, VISIBLY FREE OF ANY STRUCTURAL EXCESSIVE CRACKING, SPALLING OR OTHER DETERIORATION.

B. MASONRY:

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

C. ALUMINUM:

- ALL STRUCTURAL ALUMINUM SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF 6005-T5 FOR ALLOY WITH A MINIMUM THICKNESS OF 0.040" FOR SUPPORTING MEMBERS. WHERE KICK PLATES ARE USED A MINIMUM THICKNESS OF
- 0.024" SHALL APPLY: STRUCTURAL ALUMINUM DESIGN CONFORMS TO "PART 1-A 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 BUILDING CODE 7TH EDITION (CHAPTER 16 STRUCTURAL DESIGN & CHAPTER 20 SPECIFICATIONS FOR ALUMINUM STRUCTURES - ALLOWABLE
- ALUMINUM).
 WHERE ALUMINUM COMES INTO CONTACT WITH STEEL, OR PRESSURE TREATED LUMBER PROVIDE DIELECTRIC
- SEPARATION.

 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.

 VINYL AND ACRYLIC PANELS SHALL BE REMOVABLE. THEY
- 6 "REMOVABLE PANEL SHALL BE REMOVED WHEN WIND SPEEDS EXCEED 75 MPH". DECAL SHALL BE PLACED SO IT IS VISIBLE WHEN PANEL IS INSTALLED. SHALL BE IDENTIFIED WITH A DECAL ESSENTIALLY STATING
- 7. 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 OR TEK SCREWS IN ALUMINUM MEMBERS TYPICAL WOOD SCREW WHEN IN WOOD & #10X 1/2" EMBEDMENT SMS

D. FASTENERS:

1. 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.

- 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
- ALL METAL TIES AND ASSOCIATED ACCESSORIES SHALL BE
- ALL LAG BOLTS SHALL HAVE A MINIMUM EMBEDMENT OF 8X BOLT DIAMETER INTO STRUCTURAL FRAMING (G=.42 MIN.)
- 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
- L 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
- FOR USE WITH ACQ PRESSURE TREATED WOOD, OR
- OTHERWISE NOTED ON PLANS. PRESSURE TREATED LUMBER ARE STAINLESS STEEL TYPE 300 18-8, UNLESS MANUFACTURER GALVANIZED BOLTS SPECIFIES
- 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 OTHER WISE.

H REFERENCE STANDARDS:

ASTM E 1300

CURRENT ASCE 7
CURRENT ALUMINUM DESIGN MANUAL-AA ASM35, AND SPEC. ASTM C94 FOR ALUMINUM PART 1-A, & 1-B

ASTM C150 ASTM C33 ASTM C260 ASTM C494 ASTM A615 ASTM A185

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

F. ABBREVIATIONS:

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

- TYP -- TYPICAL
 SIM -- SIMILAR
- UON -- UNLESS OTHERWISE NOTED
- CONT -- CONTINUOUS
- VIF VERIFY IN FIELD

ç RESPONSIBILITY:

- ALL SITE WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH APPLICABLE BUILDING
- CODES, LOCAL ORDINANCES, ETC.
 2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS, NOTIFYING ENGINEER OF ANY DISCREPANCIES BETWEEN DRAWINGS, FABRICATED ITEMS, OR ACTUAL FIELD
- 3. THESE DRAWINGS REPRESENT THE ACCEPTABILITY OF THE 'SUNROOM' ROOM ADDITION ELEMENTS AS PROVIDED BY THE CONTRACTOR.

 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
- ENGINEERING PRACTICES. LICENSED P.E. IN ACCORDANCE WITH STANDARD

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

- ADDITIONAL LOADING IS PLACED ON THE MANUFACTURED
- HOME.
 2. 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
- 4. IF 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: 1. ULTIMATE DESIGNATION OF THE PROPERTY OF THE P

130 MPH 101 MPH

4 50 12 WIND LOADS:

SCREEN WALLS:

SOLID ROOF (SCREEN WALL):

S

7.6

LIVE LOAD 200 lb. VERTICAL DOWNLOAD ON SCREEN ENCLOSURE PURLINS. 300 lb. VERTICAL DOWNLOAD ON PRIMARY SCREEN ENCLOSURE MEMBERS.

10 PSF VERTICAL DOWNLOAD ON SOLID ROOF.

EXISTING SLAB AND OR FOOTING (MIN. 8"X8" FOOTING W/ 4" SLAB) MEETS THE REQUIREMENTS TO RESIST THE UPLOADS FOR THE PROPOSED STRUCTURE. SCREEN ROOF TYPE: MANSARD

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ALUMINUM STRUCTURAL MEMBERS

3 x 3:	2 x 5:	2 x 4:	2 x 3:	2 x 2:
3:	5:	4:	3:	2:
1	-	-	-	1
3" x 3" x 0.125"	2" x 5" x 0.050"	2" x 4" x 0.050"		
			Ś	Ų

OPEN BACK SECTIONS

1 x 2:-SNAP SECTIONS ----1" x 2" x 0.040" ----1" x 3" x 0.045"

2 x 2 SMS:----2 x 3 SMS:----2 x 4 SMS:----3 x 3 SMS:------2" x 2" x 0.045" --2" x 3" x 0.072" -- 2" x 4" x 0.045" 3" x 3" x 0.090"

SELF MATING (SMB)

2 x 4 SMB:---2 x 5 SMB:--2 x 6 SMB:--2 x 6 SMB:--2 x 7 SMB:--2 x 8 SMB:--2 x 9 SMB:--2 x 10 SMB:---- 2" x 8" x 0.072" x 0.224" - 2" x 9" x 0.072" x 0.224" 2" x 10" x 0.092" x 0.374" 2" x 6" x 0.050" x 0.120" 2" x 5" x 0.050" x 0.118" 2" x 7" x 0.057" x 0.120" 2" x 4" x 0.044" x 0.100"

TUBE SECTIONS x 2" x 0.090"

ULTIMATE DESIGN WIND SPEED Vult, (3 SECOND GUST):
NOMINAL DESIGN WIND SPEED Vasd:
RISK CATFGORY:
WIND EXPOSURE:

6 PSF 23 PSF N/A

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

9. 10. SOLID ROOF TYPE: N/A

HOLLOW SECTIONS INDEX:

S-2 DRAWING S-1 GENERAL NOTES 4 DETAILS -3 DETAILS

COUN Received BUILDING Compliance Code

TAON PS L HANSON PROFESSIONAL INGINEER SEAL VINEER OF RECORP

FLORIDA LICENSE: 38654 FLORIDA LICENSE: 53608 Thomas L. Hanson P.E David W. Smith P.E. ENGINEER OF RECORD:

Myron Max Neal P.E. FLORIDA LICENSE: 86663

FLORIDA LICENSE: 77605 Erik Stuart P.E. FLORIDA LICENSE: 70667 oel Falardeau P.E.

Services, Inc. FBC Plans & Engineering

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	RO 1
DATE:	REVISION:
ST	DRAWN BY: ST
03/04/2022	DATE: 0

PROJECT ADDRESS: ob# 22_0304_075

RO3

RO 4

FOXX 141 SW ERSKINE ST LAKE CITY, FL 32024

CONTRACTOR: AKESIDE ALUMINUM, INC.





