General Notes A. CONCRETE CONCRETE & FOUNDATION DESIGN:

- ALL CONCRETE AND FOUNDATIONS ATTACHED TO THE HOST STRUCTURE SHALL HAVE A PRE-INSPECTION ALL CONCRETE GRADE BEAMS AND FOOTINGS SHALL BE 3000 PSI
- 3000 PSI FIBERMESH (3/4" PER CUBIC YARD MIN.) MEETING APPROPRIATE ACI AND ASTM REQUIREMENTS MAY BE USED IN LIEU OF WELDED WIRE MESH ALL CONCRETE FILLED SUPPORTED SLABS SHALL BE 2500 PSI MINIMUM, 3 1/2" NOMINAL THICKNESS.
- ALL SLABS ON GRADE SHALL BE A MINIMUM OF 4" THICK WITH
- ALL REINFORCING SHALL CONFORM TO ASTM A615, BE GRADE 60
- (60 KSI MIN.) DEFORMED BARS, #3 BARS MAY BE GRADE 40 ALL OVER POUR CONCRETE FILLED SUPPORTED SLABS SHALL BE 3000 PSI MIN., 2" MINIMUM. THICKNESS.
 SOIL BEARING PRESSURE SHALL BE A MINIMUM OF 1500 PSF.
 THE CONCRETE SHALL CONFORM TO ASTM C94 FOR THE FOLLOWING:
- 9.1 OPC (PORTLAND CEMENT TYPE 1,- ASTM C 150).

 9.2 AGGREGATES -#6 STONE, ASTM C 33 SIZE NO. 67 LESS THAN 3/4".

 9.3 AIR ENTRAINING +/- 19%-ASTM C 260

 9.4 WATER REDUCING AGENT ASTM C 494

 9.5 CLEAN POTABLE WATER.

 9.6 OTHER ADMIXTURES SHALL NOT BE PERMITTED.

 10. METAL WELDED WIRE SHALL CONFORM TO ASTM A 185.
- 11. PREPARE & PLACE CONCRETE ACCORDING TO AMERICAN CONCRETE INSTITUTE MANUAL STANDARD PRACTICE, PART 1, 2, & 3 ALONG WITH HOT WEATHER CONDITIONS RECOMMENDATIONS.

 12. 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

MASONRY:

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

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"
- STRUCTURAL ALUMINUM DESIGN CONFORMS TO "PART 1-A 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 ODE, 8TH EDITION (CHAPTER 16 STRUCTURAL DESIGN
- 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 DENTIFIED WITH A DECAL ESSENTIALLY STATING
 "REMOVABLE PANEL SHALL BE REMOVED WITH VIND SPEEDS
 EXCEED 75 MPH". DECAL SHALL BE PLACED SO IT IS VISIBLE
 WHEN PANEL IS INSTALLED. VINYL AND ACRYLIC
 PANELS MAY NOT BE USED IN FLOOD ZONE A.
- 1"X2"X0.045" NON-STRUCTURAL MEMBERS SHALL BE OR TEK SCREWS IN ALUMINUM MEMBERS TYPICAL 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

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
- 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 EQ. 4. ALL METAL TIES AND ASSOCIATED ACCESSORIES SHALL BE
- D.

- 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

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- 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 SPECIFIES CIRCUMSTANCES BY DRIVING WITH A HAMMER.
 7. ALL EXPANSION ANCHORS SHALL BE DESIGNED IN ACCORDANCE WITH THE SPECIFIC MANUFACTURER'S
- 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
- 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.

REFERENCE STANDARDS:

ASTM E 1300
ASCE 7
ALUMINUM DESIGN MANUAL-AA ASM35, AND SPEC. FOR ALUMINUM PART 1-A, & 1-B
ASTM C94
ASTM C150
ASTM C150
ASTM C260
ASTM C260
ASTM C260
ASTM C494
ASTM A615
ASTM A615
ASTM A615

THE FLORIDA BUILDING CODE 8TH EDITION (CHAPTERS 16, 20 & 23)

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
- G. RESPONSIBILITY:
- 1. ALL SITE WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH APPLICABLE BUILDING CODES, LOCAL ORDINANCES, FTC.

 2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS, NOTIFYING ENGINEER OF ANY DISCREPANCIES BETWEEN DRAWINGS, FABRICATED ITEMS, OR ACTUAL FIELD CONDITIONS.

 3. THESE DRAWINGS REPRESENT THE ACCEPTABILITY OF THE SUNROOM' ROOM ADDITION ELEMENTS AS PROVIDED BY THE CONTRACTOR.

 4. 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
- ENGINEERING PRACTICES.
 6. WHEN ATTACHING TO FASCIA, THE HOST STRUCTURE SHALL HAVE AT LEAST A 2"X4" FASCIA AND ROOF TRUSS SYSTEM. CONTRACTOR SHALL VERIFY THIS AND IF SMALLER, CONTRACTOR SHALL BRING STRUCTURE UP TO A 2"X4" FASCIA AND ENSURE LESS THAN A 2"-0" OVERHANG.
- 7. FBC PLANS & ENGINEERING SERVICES INC. DOES NOT WARRANT, EITHER EXPRESSLY OR IMPLIED, THE QUALITY OF THE CONSTRUCTION, AND IS NOT RESPONSIBLE FOR THE INTERPRETATION OF DESIGNS AND END USE BY THE CLIENT / CONTRACTOR.

H. MISCELLANEOUS:

- IF NO HOST BEAM IS PRESENT A SEPARATE 4TH WALL SUPPORT SYSTEM SHALL 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 ALUMINUM ADDITIONS ARE NOT TO BE INSTALLED ON A MANUFACTURED HOME, TRAILER HOME, OR PRE-FAB HOME WITHOUT A MANUFACTURER'S HOST BEAM.
- R 4501.17.1 IN ITS ENTIRETY.
 DOOR LOCATIONS MAY BE DETERMINED IN THE FIELD BY CONTRACTOR

BARRIER REQUIREMENTS OF THE FBC 8TH EDITION RESIDENTIAL

ω

- DOOR LOCATIONS MAY BE DETERMINED IN THE FIELD BY CONTRACTOR.
 IF PAVERS ARE UNDER ALUMINUM MEMBERS THEY SHALL HAVE EPOXY ADHESIVE TO CONCRETE OR IF USING GROUT. MINIMUM 3000 PSI GROUT.
 SCREENING MATERIAL SHALL BE 18X14X0.013 OR
 EQUIVALENT DENSITY SCREEN MESH ONLY UNLESS NOTED ENSURE BONDING AGENT IS USED FIRST AND ADHERED WITH
- OTHERWISE.
 ALL STRUCTURAL POST SHALL BE ANCHORED TO AN EXISTING/
 PROPOSED CONCRETE FOUNDATION FOR UPLIFT PURPOSES.
 EMERGENCY ESCAPE & RESCUE OPENING PER FBC R310.1
 SHALL BE VERIFIED BY CONTRACTOR & BUILDING OFFICIAL
- 6.

 - B. ENCLOSED ADDITIONS TO MANUFACTURED HOMES SHALL NOT CHANGE THE EXIT FACILITIES FOR EGRESS PER HUD 3280.105, (a) THROUGH (a)(2)(iv), SO THAT THE DISTANCE TO EXIT DIRECTLY OUTSIDE FROM ALL BEDROOMS IS LESS THAN 35', AND, SO THAT TWO EXITS DIRECTLY OUTSIDE ARE STILL MAINTAINED. A CARPORT OR SCREEN ROOM SHALL BE CONSIDERED AS OUTSIDE. NON-HABITABLE SUNROOMS OR HABITABLE LIVING SPACE MAY BE ADDED WHERE AN EXIT DOOR WAS LOCATED AS LONG AS A NEW EXIT DOOR IS ADDED AND MEETS THE REQUIREMENTS OF HUD 3280.105.

 NG/ 9. TORNADO CODE NOT APPLICABLE TO RISK CATEGORY 1 AND RISK CATEGORY 2 STRUCTURES.

 9.1 ASCE/SEI STANDARD 7-22, FIGS. 32.5-1, 32.5-2, AND G.2-1 THROUGH -4.

COMPLIANCE WITH ASCE 7-22 AND THE FLORIDA BUILDING PROPESSIONAL AND EXIST MODILIZING PROPESSIONAL ENGINEER SEAL PROPESSIONAL ENGINEER SEAL

I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN AND FOUND IT TO BE IN

CARPORT AND CONCRETE

DESIGN DATA:

- 130 MPH 101 MPH

- INTERNAL COEFFICIENT:

Thomas L. Hanson P.E. FLORIDA LICENSE NUMBER: 38654

FLORIDA LICENSE NUMBER: 53608 David W. Smith P.E. ENGINEER OF RECORD



ALUMINUM STRUCTURAL MEMBERS HOLLOW SECTIONS

6 x 6:	6 x 6:	4 x 4:	×	×	3 x 3:	×	×		2 x 3	×	×	×	
		4	3	3	3	2	2	2	2	2	3	2	***************************************
x 6"	-6" x 6" x 0.125"	x 4"	×3	× 3	" x 3" x 0.072"	x 5"	x 4'	x 4'	x 3	x 3'	x 2'	x 2"	10
×	×	×	×	×	×	×	×	×	×	×	×	×	
0.25	0.12	0.12	0.12	0.09	0.07	0.05	0.12	0.05	0.07	0.05	0.05	0.04	
0	Q.	S	2	ū	2	0,	S	0	0"	Q.	O,	4"	

OPEN BACK SECTIONS

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

RO 4

JOB # 24_0603_016

OB NAME & ADDRESS:

133 SW MILDRED CT. LAKE CITY, FL. 32024-1066

WILLIAMS

RO 3 RO 2 RO 1

2" x 4" x 0.045"	2 x 4 Snap:
?" x 3" x 0.050"	2 x 3 Snap:2" x 3" x 0.050"
-2" x 2" x 0.045"	2 x 2 Snap:
	0.11.11

	2" x 5" x 0.050	2" x 5" x 0.050" x 0.118" 2" x 6" x 0.050" x 0.120"	2" x 5" x 0.050 2" x 6" x 0.050 2" x 7" x 0.057	2" x 5" x 0.050 2" x 6" x 0.050 2" x 7" x 0.057 2" x 8" x 0.072	2" x 5" x 0.050 2" x 6" x 0.050 2" x 7" x 0.057 2" x 8" x 0.072 2" x 8" x 0.072
2	CO.OX CX 7	2" x 6" x 0.05	2" x 6" x 0.05 2" x 7" x 0.05	2" x 6" x 0.05 2" x 7" x 0.05 2" x 7" x 0.05	2" x 6" x 0.05 2" x 7" x 0.05 2" x 7" x 0.07 2" x 8" x 0.07 2" x 9" x 0.07
0 050" - 0 110	OTT'A Y ACTTO	0.050" x 0.110	0.050" x 0.120 0.057" x 0.120	0.050" x 0.110 0.050" x 0.120 0.057" x 0.120 0.072" x 0.224	2" x 6" x 0.050" x 0.120" 2" x 7" x 0.057" x 0.120" 2" x 7" x 0.057" x 0.224" 2" x 8" x 0.072" x 0.224" 2" x 9" x 0.072" x 0.224"

- ULTIMATE DESIGN WIND SPEED Vult, (3 SECOND GUST):
 NOMINAL DESIGN WIND SPEED Vasd:
- WIND EXPOSURE:
- WIND LOADS: CARPORT (OPEN STRUCTURE): 0.0
- FACTOR APPLIED TO WIND LOADS FOR ALLOWABLE STRESS DESIGN: 0.6
- COMPONENT & CLADDING PRESSURES: ROOF ZONE 1: 7.4/-16.7 PSF, ZONE 2: 7.4/-38.3 PSF, ZONE 3: 7.4/-52.2 PSF SOLID ROOF (MWFRS): 24 PSF





Services, Inc.

5344 9th St.

FBC Plans & Engineering

FLORIDA LICENSE NUMBER: 77605

Erik Stuart P.E.

FLORIDA LICENSE NUMBER: 70667 Joel Falardeau P.E. FLORIDA LICENSE NUMBER: 93654

Ian J. Foster P.E.

Zephyrhills, Fl. 33542
Phone: (813)838-0735
Email: erb@fbcplans.com
Website: www.fbcplans.com
C.O.A. - #29054

DRAWN BY: DENNIS W, DUNN

REVISION:

DATE:

DATE: 06/07/2024

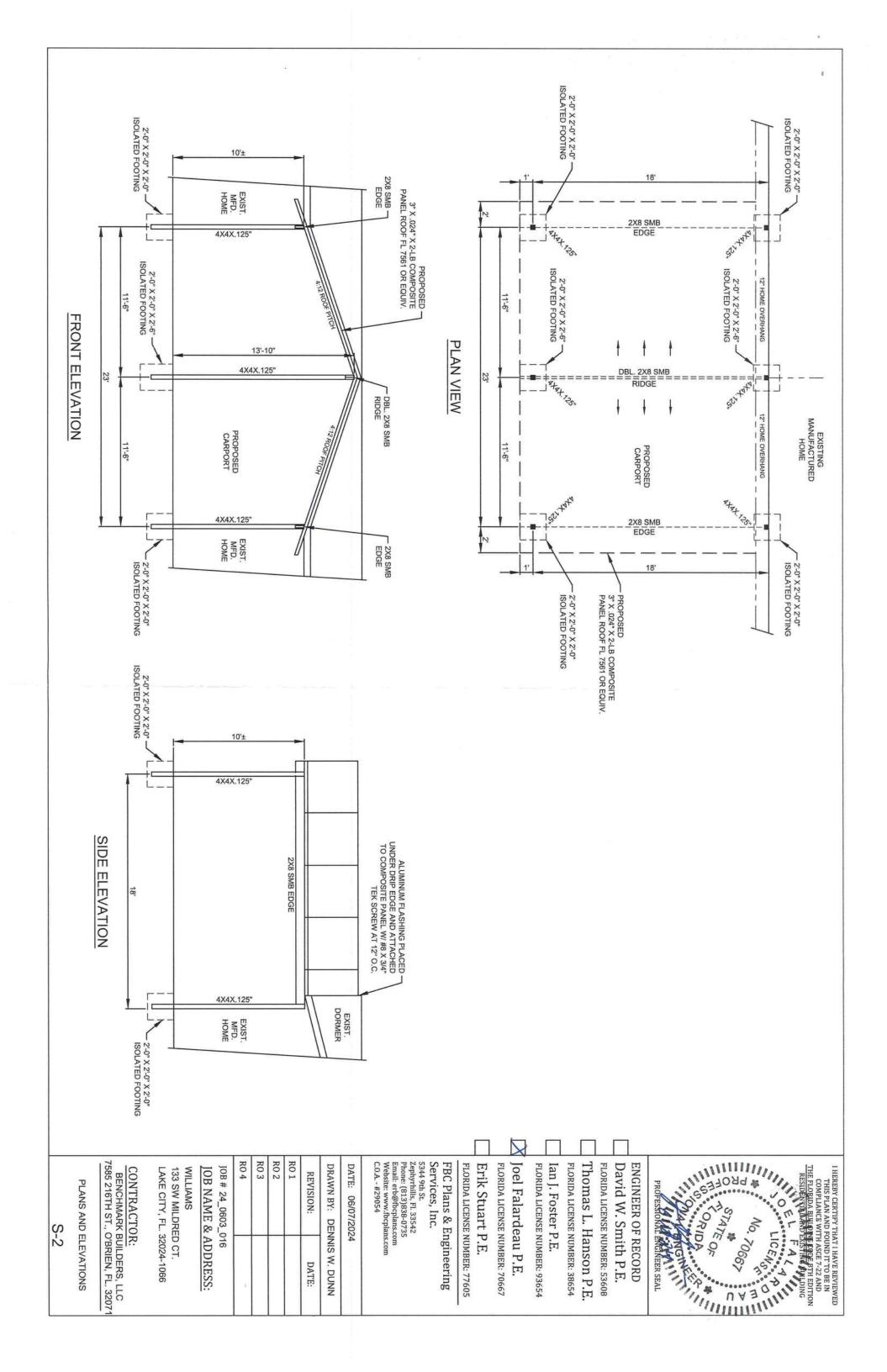
GENERAL NOTES

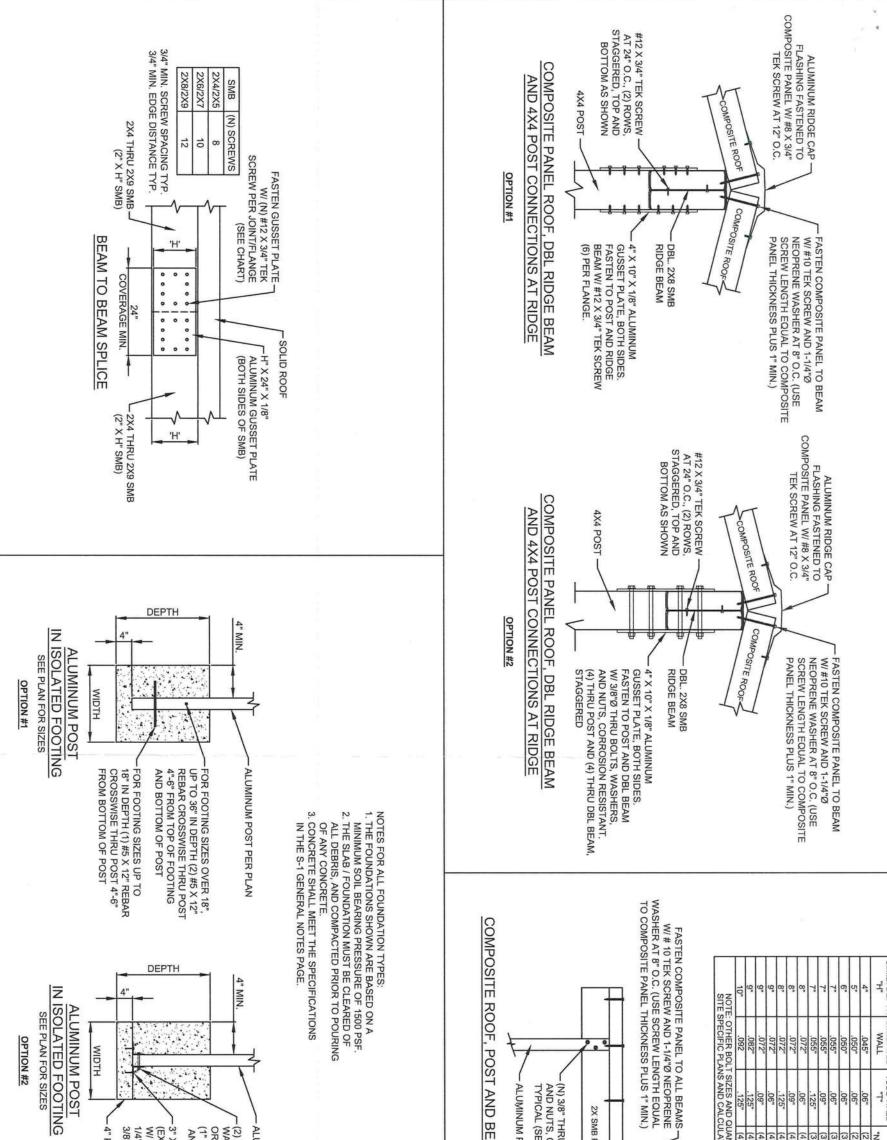
S-1 S-2 S-3 PLANS AND ELEVATIONS ALUMINUM CARPORT DETAILS

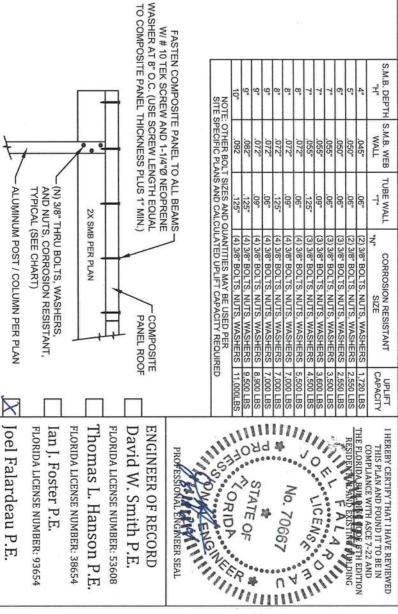
GENERAL NOTES

BENCHMARK BUIDERS, LLC 7585 216TH ST., O'BRIEN FL. 32071

CONTRACTOR:







— (2) 3/8" MACHINE BOLT, WASHER, AND NUT OR (4) #14 X 3/4" TEK SCREW (1" MIN. EDGE DISTANCE UMINUM POST PER PLAN AM CONNECTION Zephyrhills, Fl. 33542 Phone: (813)838-0735 Email: erb@fbcplans.com Website: www.fbcplans.com RO 2 RO 1 RO 3 lan J. Foster P.E. Thomas L. Hanson P.E. Services, Inc. FBC Plans & Engineering Erik Stuart P.E. FLORIDA LICENSE NUMBER: 70667 Joel Falardeau P.E. FLORIDA LICENSE NUMBER: 93654 FLORIDA LICENSE NUMBER: 38654 C.O.A. - #29054 5344 9th St. FLORIDA LICENSE NUMBER: 77605 FLORIDA LICENSE NUMBER: 53608 PROFESSIONAL ENGINEER SEAL
GINEER OF RECOT
'A W. ST DRAWN BY: DENNIS W, DUNN DATE: 06/07/2024 REVISION: DATE:

JOB # 24_0603_016 JOB NAME & ADDRESS: CONTRACTOR: LAKE CITY, FL. 32024-1066 133 SW MILDRED CT. WILLIAMS

4" MIN.

A

ALUMINUM CARPORT DETAILS

7585 216TH ST., O'BRIEN FL. 32071

BENCHMARK BUIDERS, LLC

IN ISOLATED FOOTING

SEE PLAN FOR SIZES OPTION #2

ALUMINUM POST

MIDTH

PAD

→ 3" X 3" X 0.125" ANGLE
(EXTERNAL OR INTERNAL)
W/ (4) CONCRETE SCREWS
1/4" Ø FOR 3X3 POST
3/8" Ø FOR 4X4 POST

AND 2" MIN. SPACING)

RO 4