

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. 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 DETRIORATION.

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. ALUMINIUM:

1. ALL STRUCTURAL ALUMINIUM SHALL CONFORM TO THE 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 ALUMINIUM DESIGN CONFORMS TO "PART 1-A - SPECIFICATIONS FOR ALUMINIUM STRUCTURES - ALLOWABLE STRESS DESIGN" OR "PART 1-B - SPECIFICATIONS FOR ALUMINIUM STRUCTURES - BUILDING LOAD AND RESISTANCE FACTOR DESIGN" OF THE ALUMINIUM DESIGN MANUAL PREPARED BY THE ALUMINIUM ASSOCIATION, INC. WASHINGTON D.C. THE FLORIDA BUILDING CODE 7TH EDITION (CHAPTER 16 STRUCTURAL DESIGN & CHAPTER 20 ALUMINIUM).
4. WHERE ALUMINIUM COMES INTO CONTACT WITH STEEL, OR PRESSURE TREATED LUMBER PROVIDE DIELECTRIC SEPARATION.
5. ALUMINIUM 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"x2"x0.045" NON-STRUCTURAL MEMBERS SHALL BE ATTACHED TO HOST WITH 1/4"x1.3-1/4" EMBEDMENT & 24" O.C. MASONRY SCREW FOR CONCRETE & EQUIVALENT SIZE WOOD SCREW WHEN IN WOOD & #10X 1/2" EMBEDMENT SMS OR TEK SCREWS IN ALUMINIUM 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 SPECIFICS 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.), 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 #8 OR BETTER ZINC PLATED.
8. ALL FASTENERS CONNECTING ALUMINIUM COMPONENTS OR PRESSURE TREATED LUMBER ARE STAINLESS STEEL, TYPE 300 18-8, UNLESS MANUFACTURER GALVANIZED BOLTS SPECIFICS 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 OTHER WISE.

E. REFERENCE STANDARDS:

- ASTM E 119
- ASTM E 1300
- CURRENT ASCE 7
- FOR ALUMINIUM PART 1-A, & 1-B
- ASTM C94
- ASTM C94
- 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.
1. TYP -- TYPICAL
 2. SIM -- SIMILAR
 3. UN -- 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, ETC.
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.
5. ANY DETAILS NOT SHOWN ARE TO BE ENGINEERED BY A LICENSED P.E. IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICES.

H. MISCELLANEOUS:

1. ALUMINIUM 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 ITS ENTIRETY.
3. DOOR LOCATIONS MAY BE DETERMINED IN THE FIELD BY CONTRACTOR.
4. IF PAVERS ARE UNDER ALUMINIUM 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.
5. SCREENING MATERIAL SHALL BE 18X14X0.013 OR EQUIVALENT DENSITY SCREEN MESH ONLY UNLESS NOTED ON DRAWING S-2.
6. ALL STRUCTURAL POST SHALL BE ANCHORED TO AN EXISTING/PROPOSED CONCRETE FOUNDATION FOR UPLIFT PURPOSES.

DESIGN DATA:

1. ULTIMATE DESIGN WIND SPEED Vult. (3 SECOND GUST): 130 MPH
2. NOMINAL DESIGN WIND SPEED Vd: 101 MPH
3. RISK CATEGORY: 1
4. WIND EXPOSURE: C
5. WIND LOADS:
6. SCREEN ROOF: 9 PSF
7. SCREEN WALLS (WINDWARD): 32 PSF
8. SCREEN WALLS (LEEWARD): 26 PSF
9. SOLID ROOF (SCREEN WALL): N/A
5. FACTOR APPLIED TO SCREEN WIND LOADS FOR 18X14X0.013 OR EQUIVALENT DENSITY SCREEN MESH: 0.88
6. FACTOR APPLIED TO SCREEN WIND LOADS FOR ALLOWABLE STRESS DESIGN: 0.6
7. LIVE LOAD: 300 lb.
8. VERTICAL DOWNLOAD ON PRIMARY SCREEN ENCLOSURE MEMBERS, 200 lb. VERTICAL DOWNLOAD ON SCREEN ENCLOSURE PURLINS, 10 PSF VERTICAL DOWNLOAD ON SOLID ROOF.
9. EXISTING FOOTING (MIN. 12" X 12" LINEAL FOOTING) MEETS THE REQUIREMENTS TO RESIST THE UPLIFTS FOR THE PROPOSED STRUCTURE.
10. SCREEN ROOF TYPE: **HIPPED GABLE**
10. SOLID ROOF TYPE: **N/A**

ALUMINIUM STRUCTURAL MEMBERS

INDEX:	DESCRIPTION
S-1	GENERAL NOTES
S-2	DRAWING
S-3	DETAILS
S-4	DETAILS

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"

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

TUBE SECTIONS	
2 x 2:	2" x 2" x 0.090"



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 REVISION: DATE:
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 RO 2
 RO 3
 RO 4

Job# 22_0825_383
 PROJECT ADDRESS:
REX
 807 SW MANDIBA DR
 LAKE CITY, FL 32024

CONTRACTOR:
 LAKEVILLE ALUMINIUM, INC.

NOTES
S-1

(F) DOOR LOCATION MAY BE DETERMINED IN THE FIELD BY THE CONTRACTOR USING 2X4 UPRIGHTS ON NON LOAD BEARING WALL.



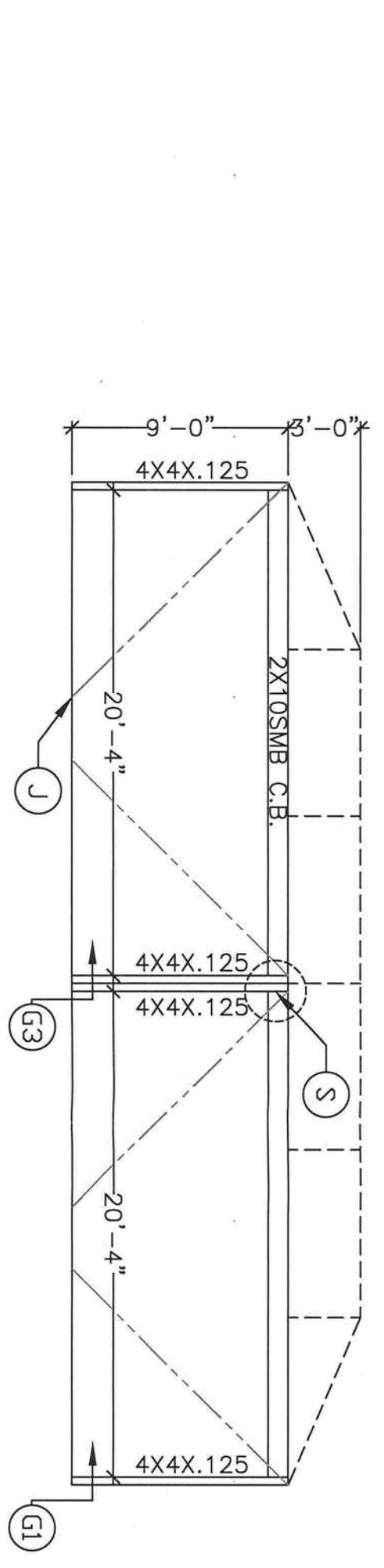
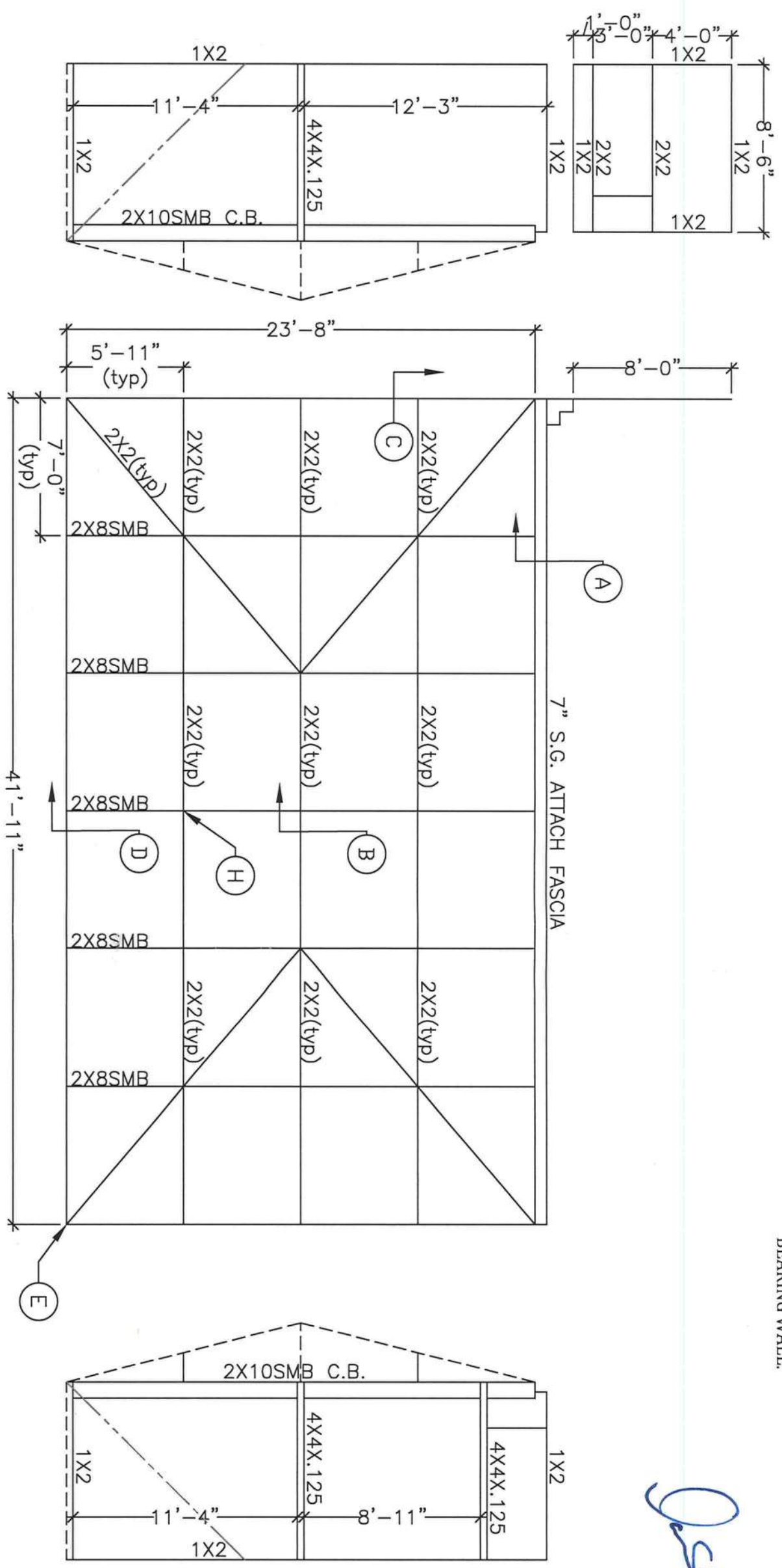
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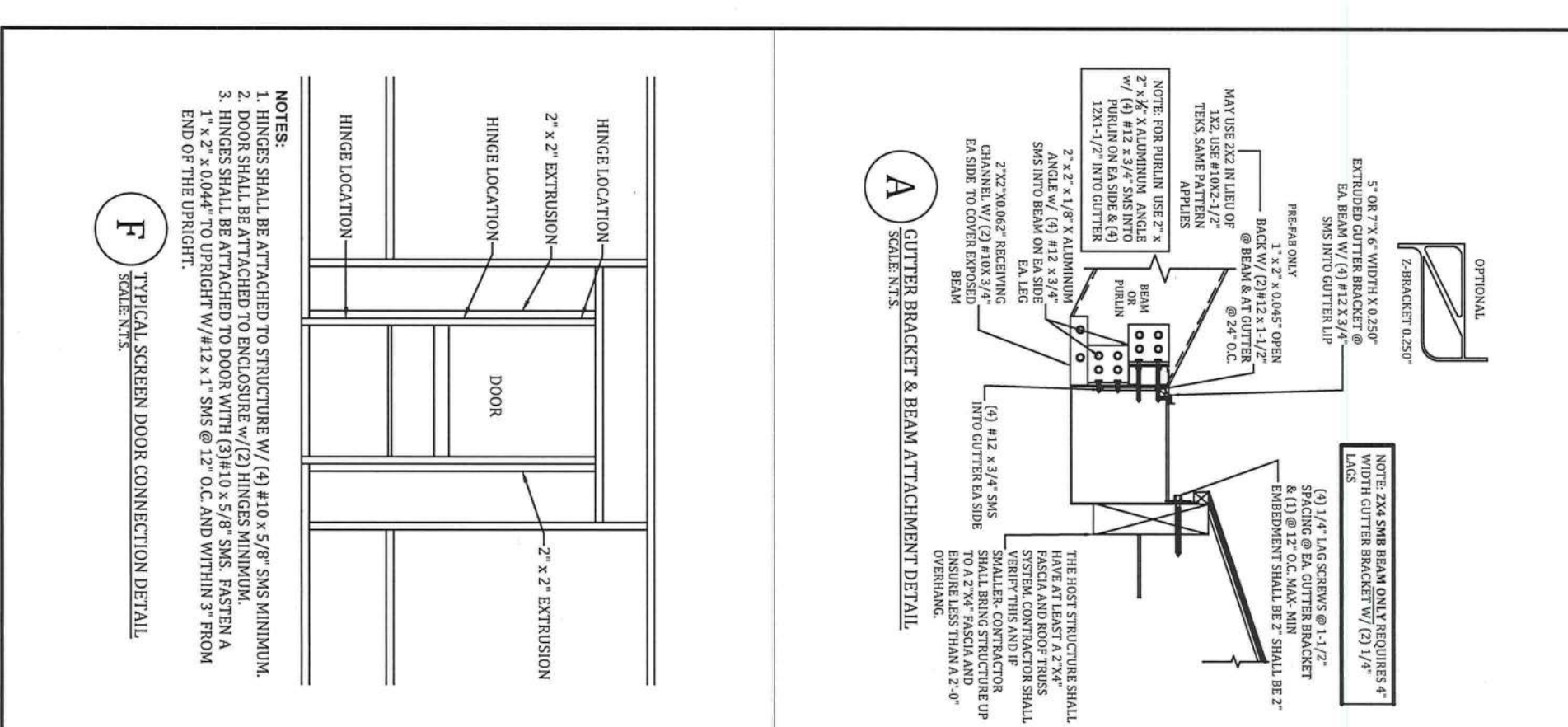
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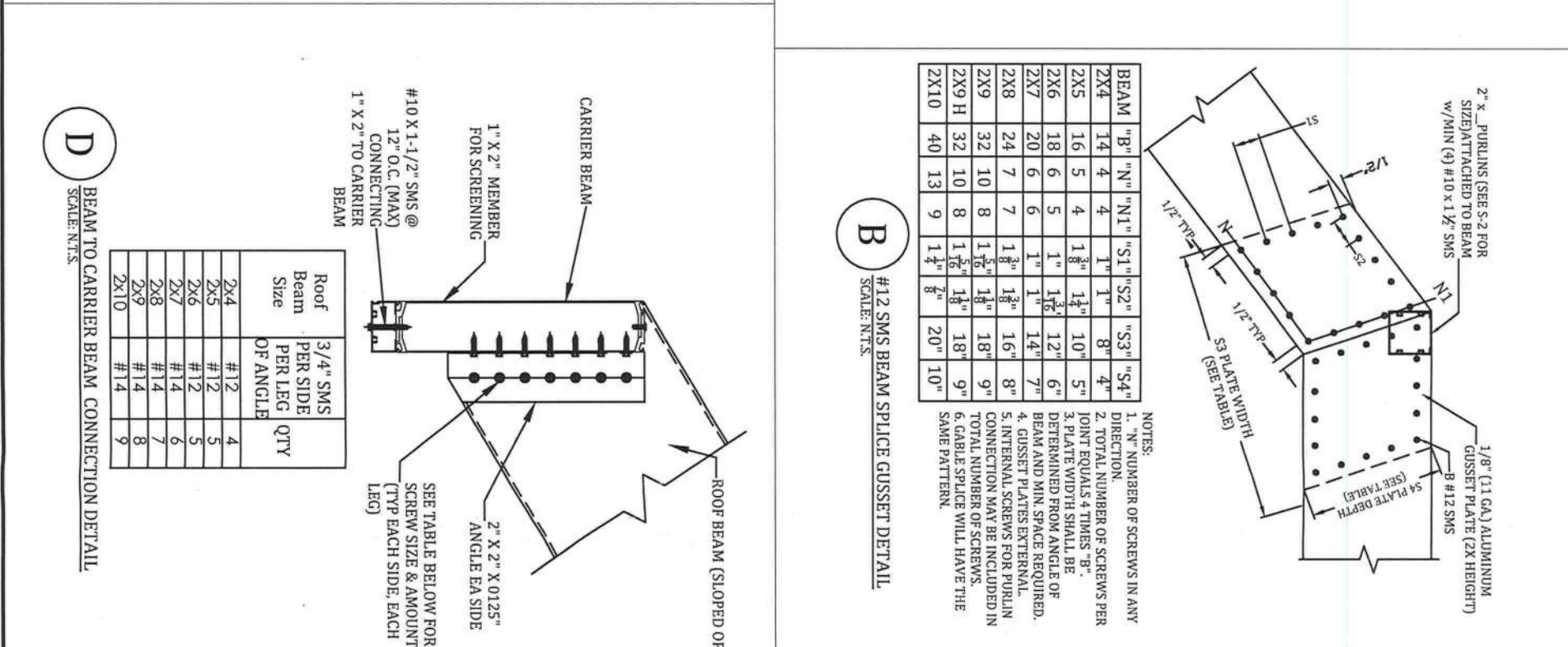
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FLOOR PLAN
S-2

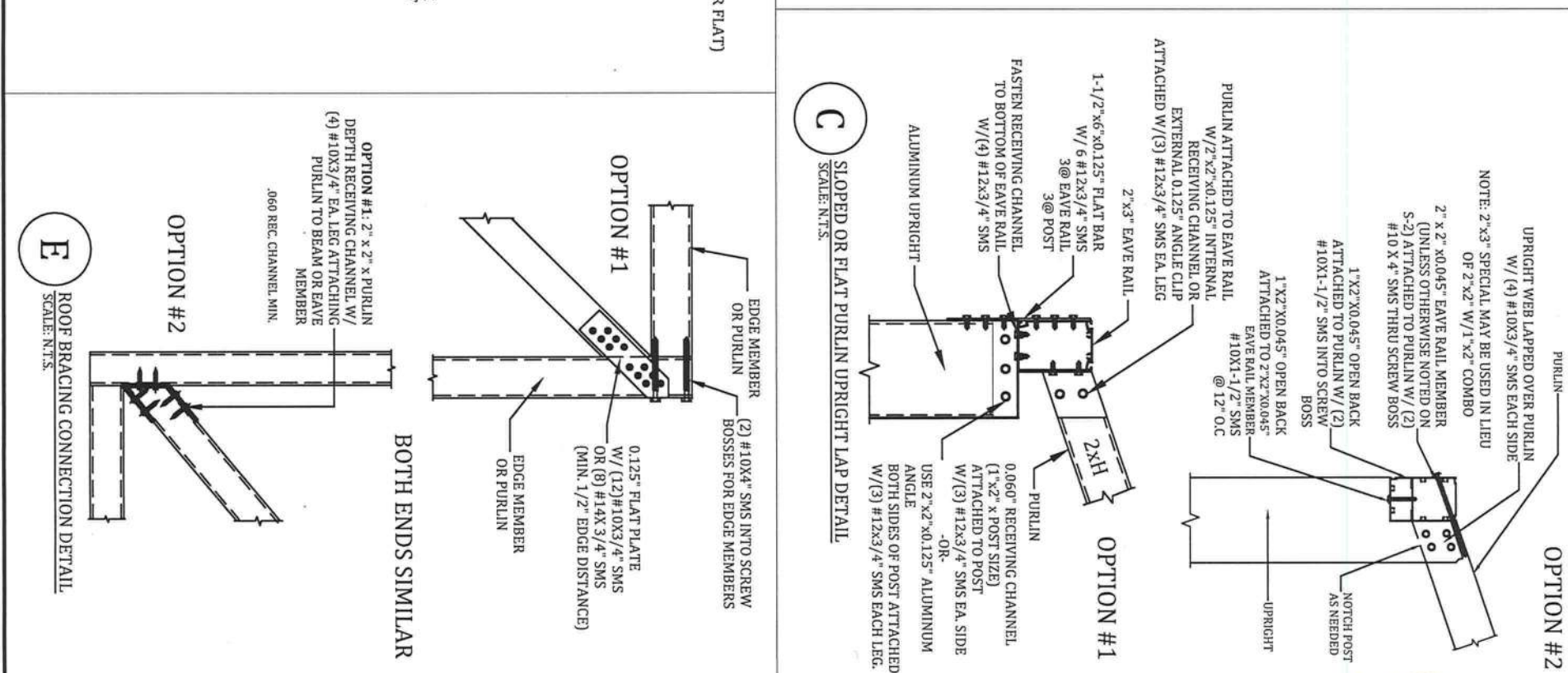




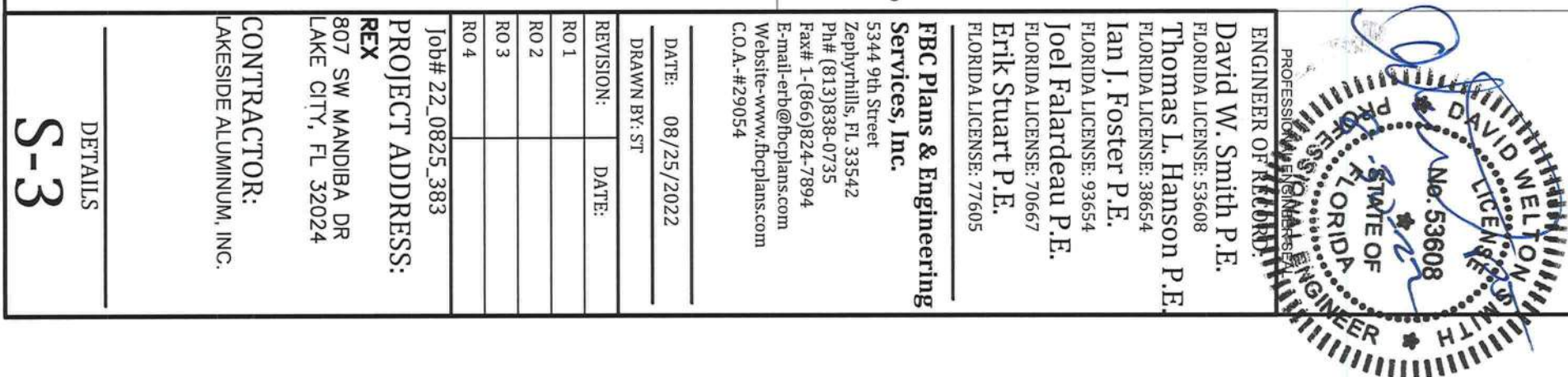
A
GUTTER BRACKET & BEAM ATTACHMENT DETAIL
SCALE: N.T.S.



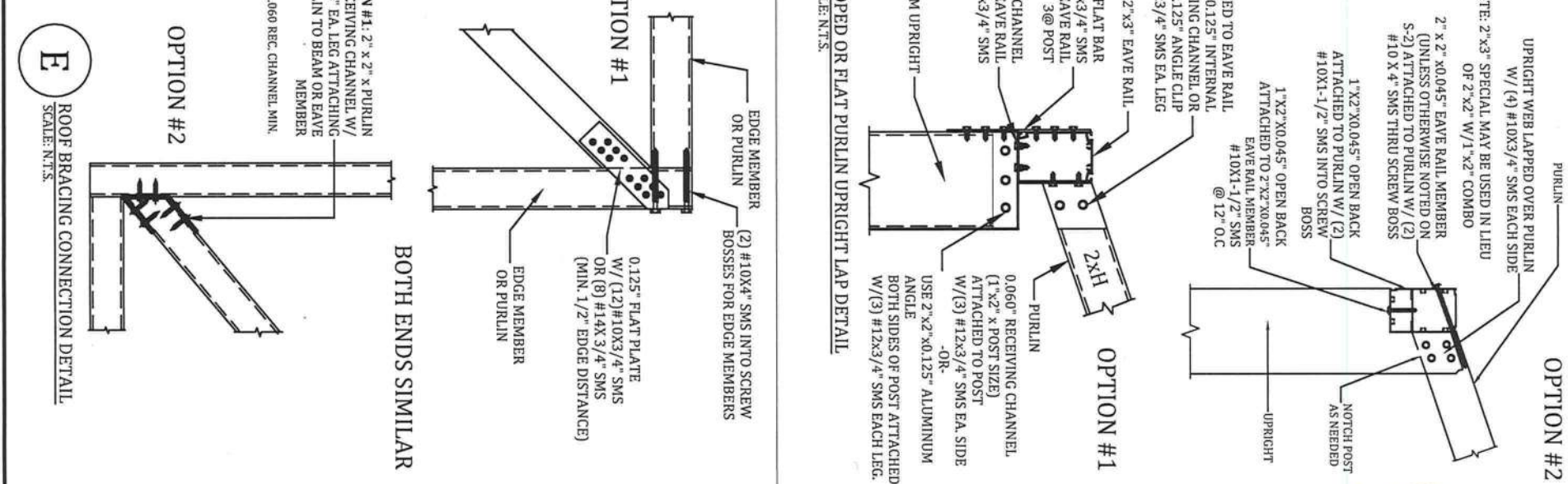
B
#12 SMS BEAM SPLICE GUSSET DETAIL
SCALE: N.T.S.



C
SLOPED OR FLAT PURLIN UPRIGHT LAP DETAIL
SCALE: N.T.S.



D
BEAM TO CARRIER BEAM CONNECTION DETAIL
SCALE: N.T.S.



E
ROOF BRACING CONNECTION DETAIL
SCALE: N.T.S.

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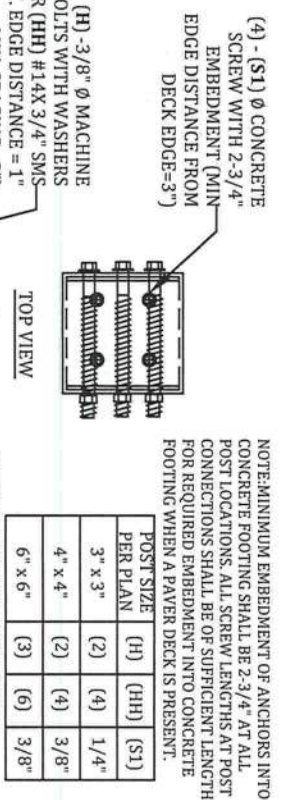
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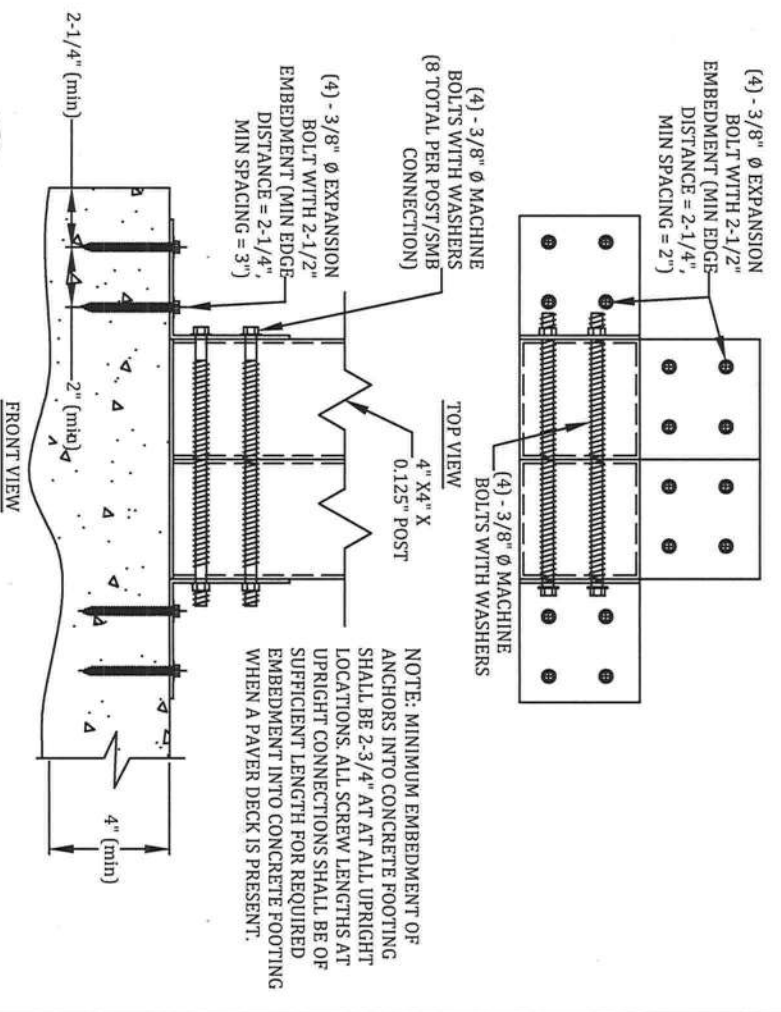
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LAKESIDE ALUMINUM, INC.

DETAILS
S-3



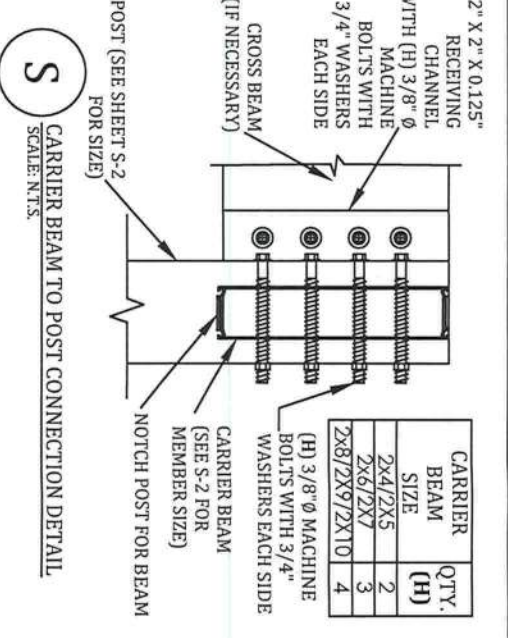
G1 ALUM. POST CONNECTION DETAIL
SCALE: N.T.S.

NOTE: CONCRETE SCREW ANCHOR DESIGNS ARE BASED ON TITEN HD (S1) Ø SCREW ANCHORS. OTHER SIZE OR TYPE OF ANCHORS SHALL NOT BE USED.
NOTE: FOR PATIO COVERS AND CARPORTS: DISREGARD THE 1X2 OPEN BACK SCREEN MEMBER ON THE FOUNDATION TYP.



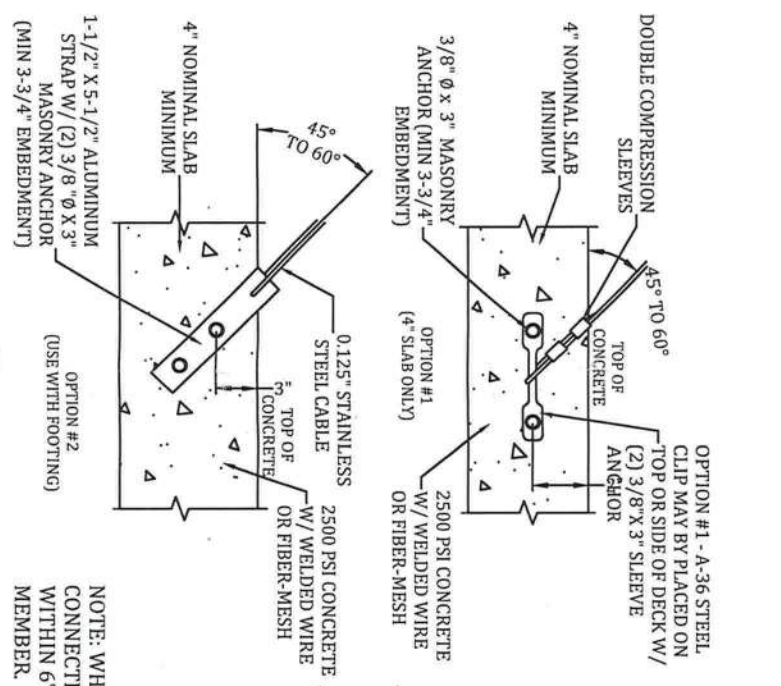
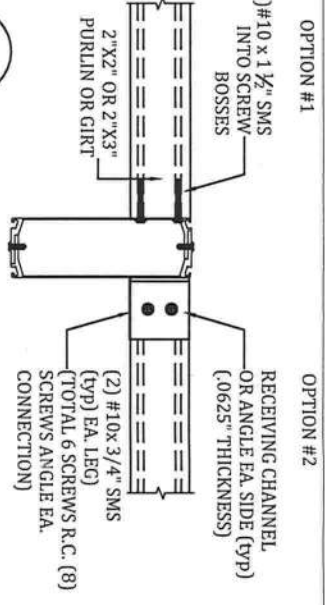
G3 4" X 4" X 0.125" POST CORNER POST CONNECTION A.L.T. DETAIL
SCALE: N.T.S.

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



S CARRIER BEAM TO POST CONNECTION DETAIL
SCALE: N.T.S.

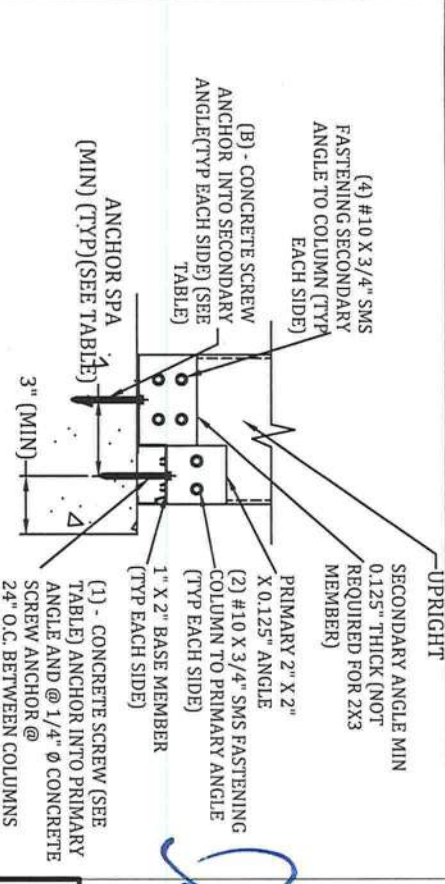
H PURLIN OR GIRT TO BEAM OR POST DETAIL
SCALE: N.T.S.



J CABLE CONNECTION AT CORNER
SCALE: N.T.S.

G 2" x 3" OR LARGER UPRIGHT TO CONCRETE W/ WO PAVEMENT DETAILS
SCALE: N.T.S.

Column Size	Anchor	Min. Spa
2x3-1/4"	0	0"
2x4-1/4"	1	3"
2x5-1/4"	1	3"
2x6-3/8"	1	4"
2x7-3/8"	1	5"
2x8-3/8"	2	3"
2x9-3/8"	2	4"
2x10-3/8"	2	4.5"



NOTES:
1. NUMBER OF ANCHORS "B" IS EACH SIDE INTO THE SECONDARY ANGLE AND DOES NOT INCLUDE THE ANCHOR INTO THE 1X2.
2. MINIMUM EMBEDMENT OF ANCHORS INTO CONCRETE FOOTING SHALL BE 2-3/4" AT ALL UPRIGHT LOCATIONS. ALL SCREW LENGTHS AT UPRIGHT CONNECTIONS SHALL BE OF SUFFICIENT LENGTH FOR REQUIRED EMBEDMENT INTO CONCRETE FOOTING WHEN A PAVEMENT DECK IS PRESENT.
3. CONCRETE SCREW ANCHOR DESIGNS ARE BASED ON THOSE LISTED BY ENGINEER.
4. 2X3W/1X2 CORNER POST SHALL REQUIRE SAME BASE CONNECTIONS AS 2X4 SHOWN IN TABLE.
5. IF FOR AN IN-FILL, TOP OF COLUMN CONNECTION SIMILAR IF CONCRETE LUNTEL. IF WOOD LUNTEL, SUBSTITUTE 1/4" Ø X 3" LAG SCREW FOR 3/8" Ø LDT FOR BOTH PRIMARY & SECONDARY ANGLES.
6. 2X2X.045 DOOR JAMB MEMBER SHALL CONNECT SIMILAR TO 2X3 MEMBER.

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8/25/2022

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