

GENERAL NOTES:

1. ULTIMATE DESIGN WIND SPEED Vult, (3 SECOND GUST) 130 MPH
NOMINAL DESIGN WIND SPEED Vasd: 100.7 MPH
2. RISK CATEGORY: I
3. WIND EXPOSURE: C
4. WIND LOADS:

SCREEN ROOF: +4.4/-17.2 PSF
3" COMPOSITE ROOF: +4.4/-17.2 PSF
SCREEN WALLS: +10.8/-11.7 PSF

PER THE 8TH EDITION, 2023 FBC, RESIDENTIAL CODE TABLE R301.2 (2) COMPONENT & CLADDING.

5. FACTOR APPLIED TO SCREEN WIND LOADS FOR 20/20 OR 18/14 OR EQUIVALENT DENSITY SCREEN MESH.

6. FACTOR APPLIED TO SCREEN WIND LOADS FOR ALLOWABLE STRESS DESIGN: 0.6

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

8. SCREEN ROOF TYPE: MANSARD STYLE

9. SOLID ROOF TYPE: 3"x.024 2LB FOAM INSULATED ROOF

10. FOR ALL MEMBER SIZING REFER TO PAGE 1 OF 5 THIS PACKAGE.

11. CONCRETE AND FOOTER DETAILS BY OTHERS

ALUMINUM STRUCTURAL MEMBERS

HOLLOW SECTIONS

2X2: 2"X2"X0.046"
3X2: 3"X2"X0.050"
2X3: 2"X3"X0.050"
2X3: 2"X3"X0.070"
2X4: 2"X4"X0.050"
2X5: 2"X5"X0.050"

OPEN BACK SECTIONS

1X2: 1"X2"X0.040"
1X3: 1"X3"X0.045"

SNAP SECTIONS

2X2 SNAP: 2"X2"X0.045"
2X3 SNAP: 2"X3"X0.050"
2X4 SNAP: 2"X4"X0.045"

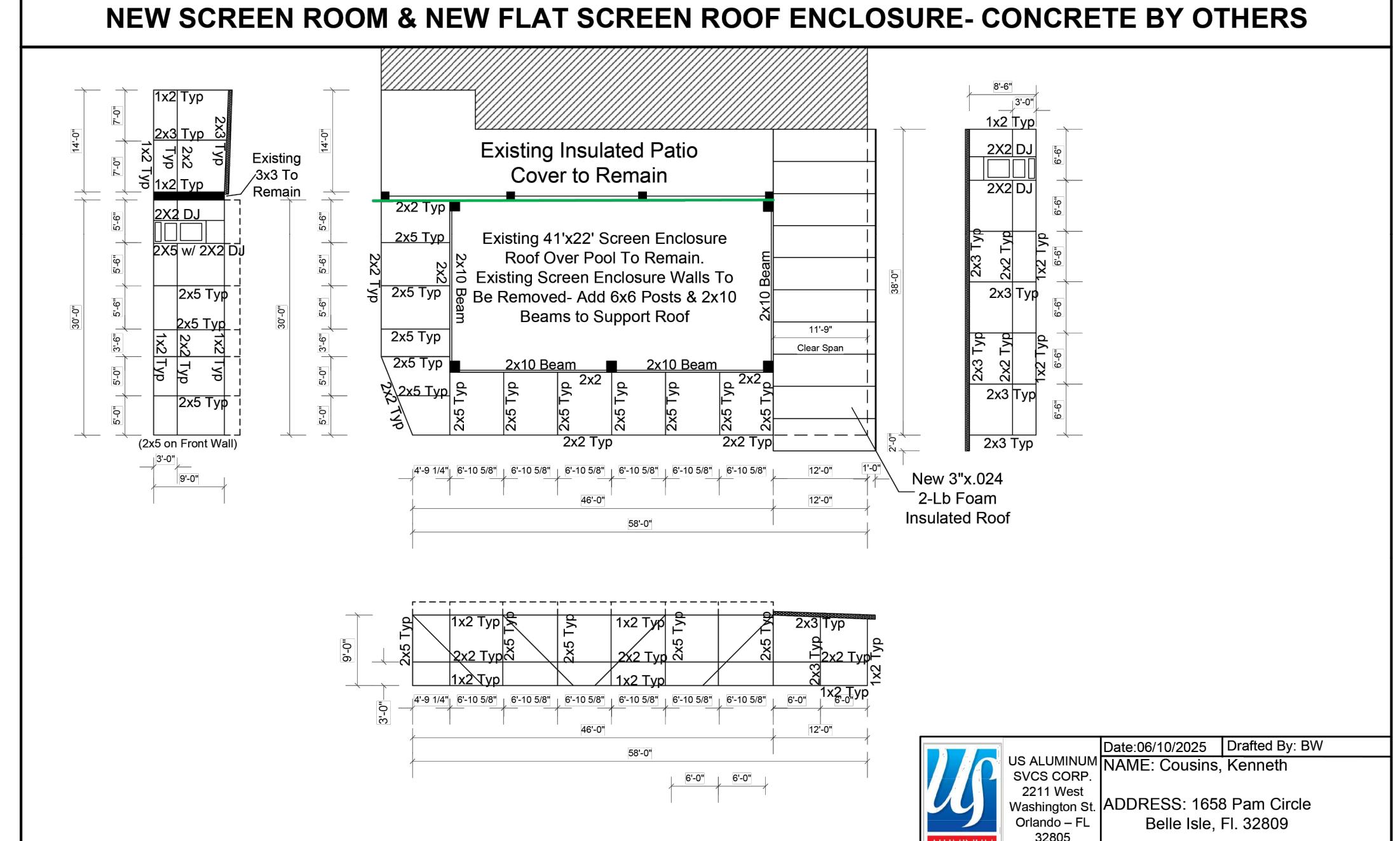
SELF MATING (SMB)

2X4 SMB: 2"X4"X0.044"X0.100"
2X5 SMB: 2"X5"X0.050"X0.118"
2X6 SMB: 2"X6"X0.050"X0.120"
2X7 SMB: 2"X7"X0.057"X0.120"
2X8 SMB: 2"X8"X0.072"X0.224"
2X9 SMB: 2"X9"X0.072"X0.224"
2X10 SMB: 2"X10"X0.092"X0.374

APPLICABLE CODE:
8TH EDITION, 2023 FBC, BUILDING CODE, CHAPTER 16,
SECTION 1609 & THE 8TH EDITION, 2023 FBC,
RESIDENTIAL CODE, SECTION R301

WIND DESIGN STRUCTURAL DESIGN CRITERIA:

ULTIMATE DESIGN WIND SPEED
(3 SECOND GUST) - 130 MPH
BUILDING EXPOSURE - C
BUILDING IMPORTANCE FACTOR = 1.0
MEAN HEIGHT 30' OR LESS
HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENT = 1.0
RISK CATEGORY = I

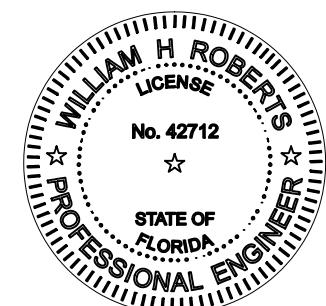


US ALUMINUM
SVCS CORP.
2211 West
Washington St.
Orlando - FL
32805

Date: 06/10/2025 Drafted By: BW
NAME: Cousins, Kenneth

ADDRESS: 1658 Pam Circle
Belle Isle, Fl. 32809

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN
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WIND SPEED OF 130 MPH (RISK CATEGORY I) (WIND
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cn=William H Roberts, o=EGI-
Engineering Great Ideas Inc, c=US
Date: 2025.07.02 10:04:47 -04'00'
07/02/2025

WILLIAM H. ROBERTS, P.E. # 42712

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(407) 237-3128

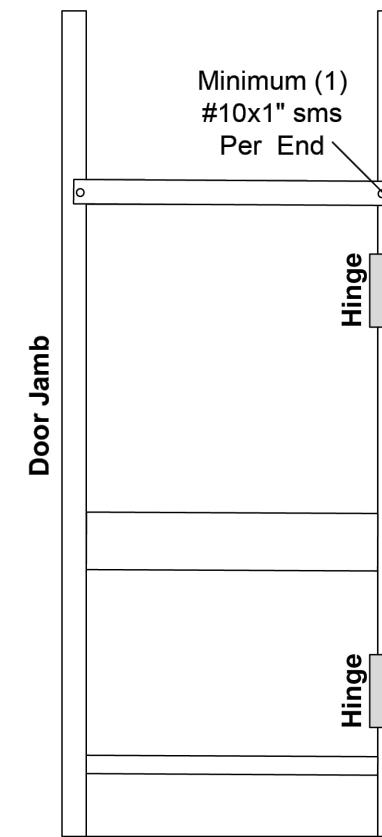
ELEVATION VIEWS

COUSINS RESIDENCE
1658 PAM CIRCLE
BELL ISLE FL. 32809
130 MPH EXP. "C"

DRAWN:
DWH
SHEET:
1 OF 5

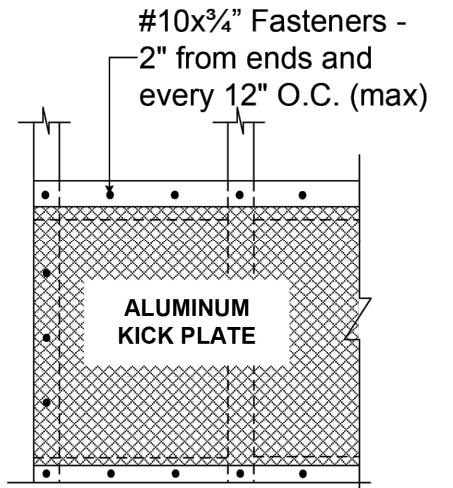
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FBE ENGINEERING BUSINESS CERT. OF AUTH. #29098
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PLANT CITY, FLORIDA, 33563
PHONE NO.: (813) 752-7078 -- EMAIL: robroberts, P.E. # 42712
William H. Roberts, P.E. # 42712

STANDARD SCREEN DOOR & OPTIONAL KICKPLATE DETAILS



36" x 80" Screen Door Use
Minimum 2 Hinges Per Door
Use (7) #10x $\frac{3}{4}$ " Teknol Per Hinge,
(4) to Jamb & (3) to Door
Using Pre-drilled holes
*For 48" Wide or 96" Tall Use
Minimum 3 Hinges Per Door

STANDARD SCREEN DOOR ATTACHMENT DETAIL



OPTIONAL ALUMINUM KICKPLATE ATTACHMENT- TYPICAL DETAIL

*DOORS-

Doors are not structural, they can be moved or added on project as long as structural posts remain as shown
Door Jambs(DJ) are not structural

**KICKPLATE-

Kickplate is not structural-
8", 16", or 24" kickplate can be added or removed on project



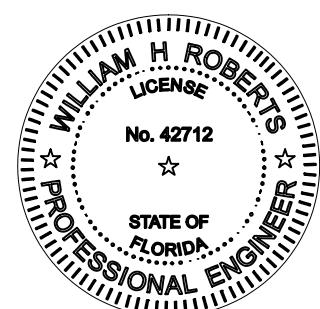
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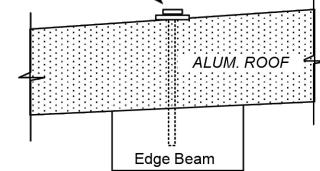
STRUCTURAL DETAILS
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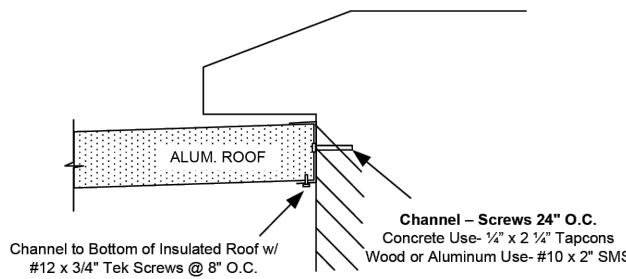
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SHEET:
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SCREEN ROOM w/ INSULATED ROOF DETAILS

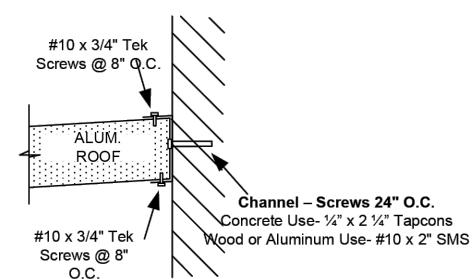
#14 x 5" STS w/ 1-1/2" neoprene washer
Load Bearing End (5) per panel @ Max. 12" O.C.- when
needed
Non-Loading Bearing Side Max. 24" O.C.- when needed



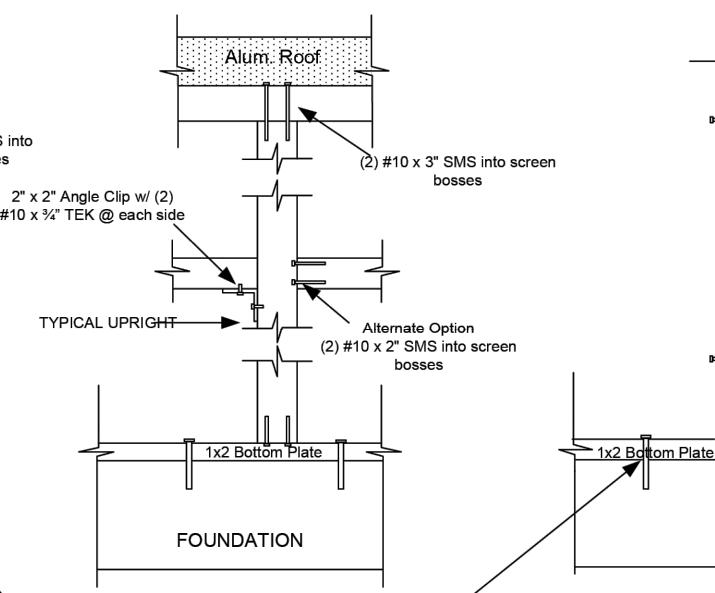
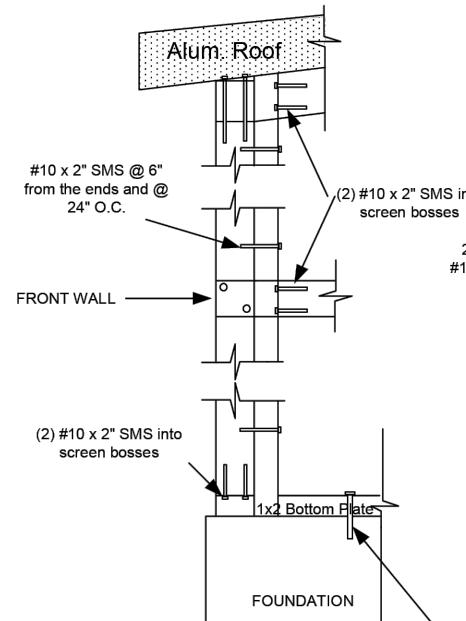
**TYPICAL ROOF TO
EDGE BEAM DETAIL**



**ALUMINUM INSULATED
ROOF TO HOUSE WALL
UNDER OVERHANG**



**ALUMINUM INSULATED
ROOF TO HOUSE WALL**



1X2 TO HOST STRUCTURE - 24" O.C.
Concrete Use- 1/4" x 2 1/4" Tapcons
Wood or Aluminum Use- #10 x 2" SMS
2X2 TO HOST STRUCTURE - 24" O.C.
Concrete Use- 1/4" x 3 1/4" Tapcons
Wood or Aluminum Use- #10 x 3" SMS



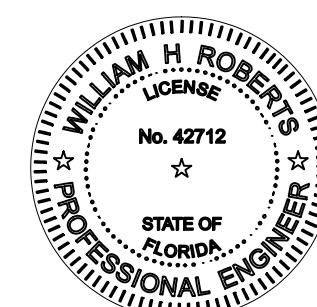
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TYPICAL SCREEN ROOM DETAIL



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07/02/2025
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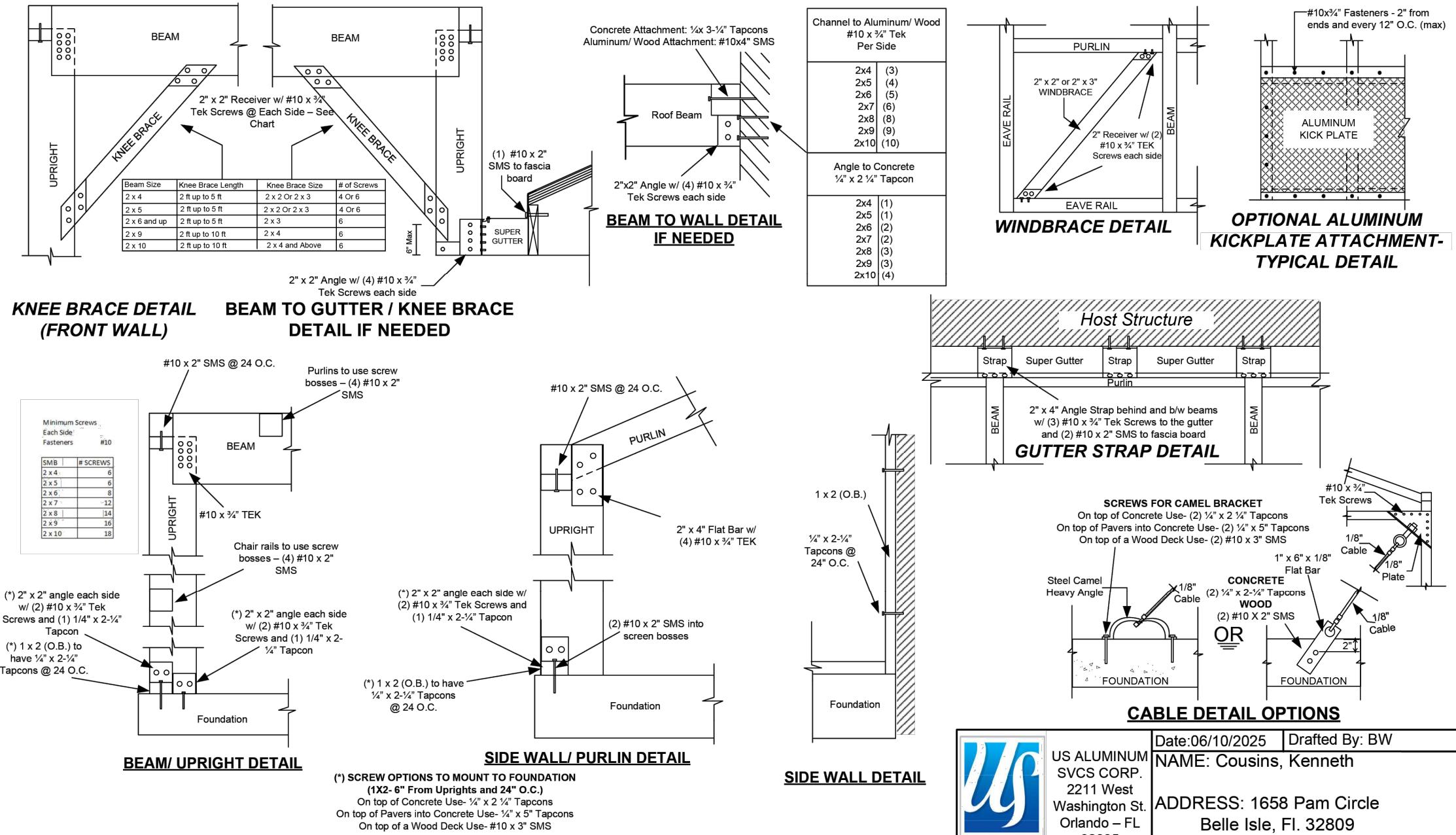
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STRUCTURAL DETAILS

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130 MPH EXP. "C"

DRAWN:
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SHEET:
3 OF 5

FLAT SCREEN ENCLOSURE DETAILS



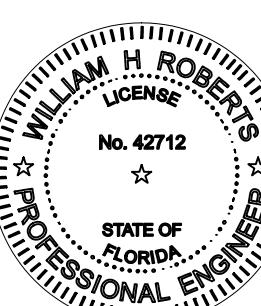
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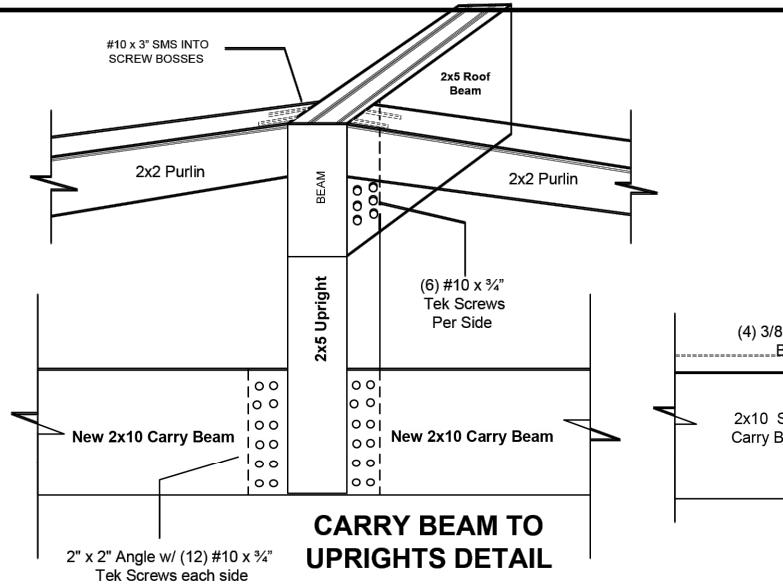
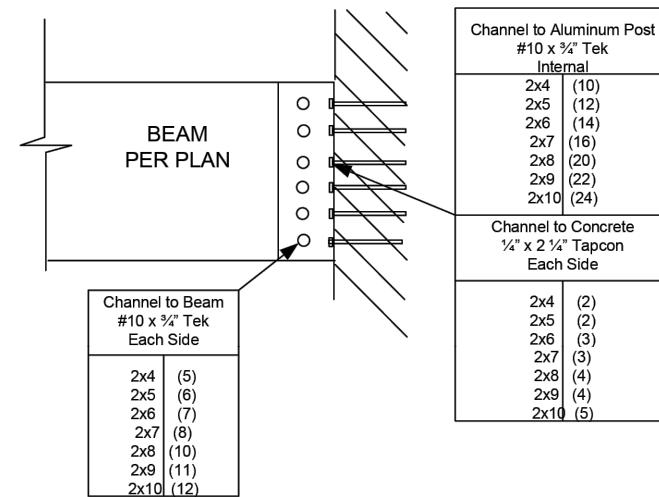
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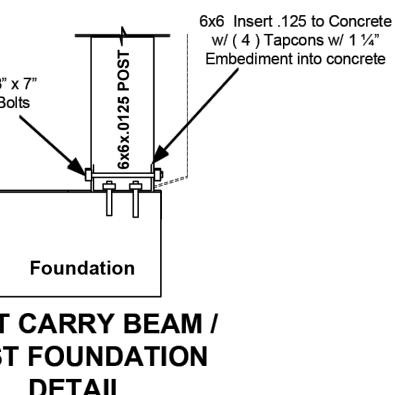
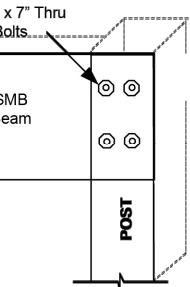
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OPEN VIEW DETAILS FOR EXISTING DOME SCREEN ENCLOSURE



CARRY BEAM TO UPRIGHTS DETAIL



POST CARRY BEAM /
POST FOUNDATION
DETAIL

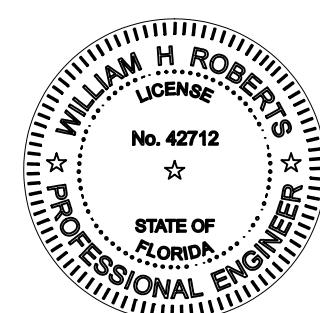


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130 MPH EXP. "C"

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DWH

SHEET:
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