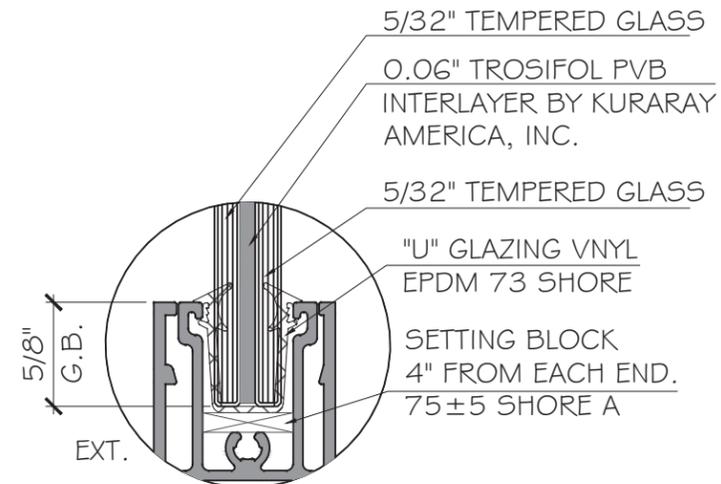


UNI-K FENESTRATION HORIZONTAL ROLLER WINDOW SMALL MISSILE IMPACT

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS ARE RATED FOR SMALL MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED FOR INSTALLATION ABOVE 30FT OF GRADE. IMPACT SHUTTERS ARE REQUIRED FOR INSTALLATIONS UP TO 30 FT OF GRADE.
- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/ METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE SECTION AS APPLICABLE.
- METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.
- ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
- SEALANT:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.
- MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.
- HARDWARE CHECKED FOR WIND LOAD IN CLOSED POSITION ONLY; OPERATION PER MANUFACTURER'S INSTRUCTIONS. WINDOWS MUST BE CLOSED AND SECURED WHEN A HURRICANE WARNING IS ISSUED.



G1 GLASS TYPE 'G1'
3/8" NOMINAL OVERALL

NOTE:
GLASS COMPLIES WITH ASTM E 1300-09 (3 SEC. GUSTS).

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET E1 TO E3 FOR APPROVED TYPICAL ELEVATION #CONFIGURATION. SEE SHEET G1 FOR GLASS CAPACITY.
- STEP 3: ANCHOR TYPE SEE SHEET A1 TO A4. ANCHOR SPACING SEE SHEET E1 TO E3.
- STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2 & 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

LIMITATIONS OF USE	
A-	THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
B-	CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
C-	THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
D-	SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.
E-	THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

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ABBREVIATIONS AND SYMBOLS	
G.B. - GLASS BITE	
D.L.O. - DAYLITE OPENING	
F.H. - FRAME HEIGHT	
F.W. - FRAME WIDTH	
W/ - WITH	
W/O - WITHOUT	
O.C. - ON CENTER	

YIPING WANG
FLORIDA REGISTRATION
No. 55983
C.A.N. 28877

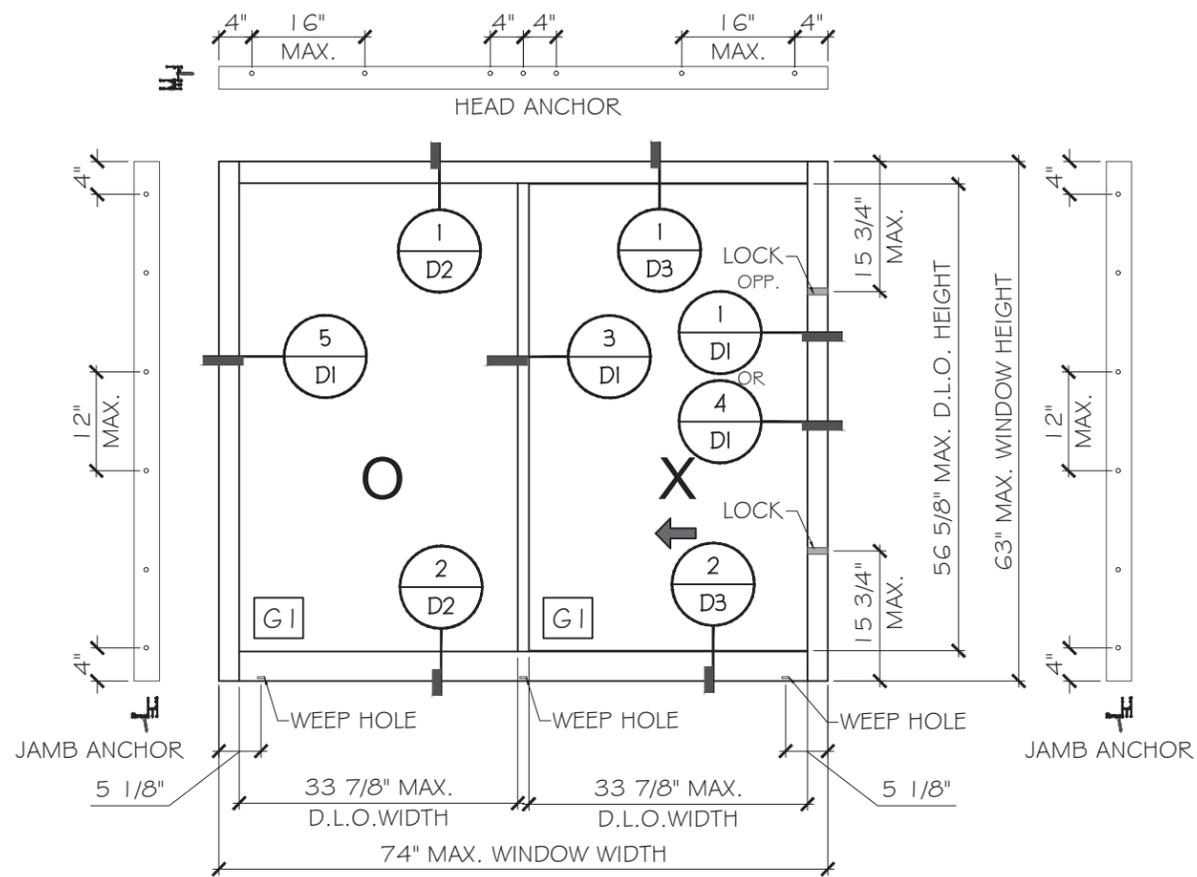
STATE OF FLORIDA
PROFESSIONAL ENGINEER

February 06th, 2026

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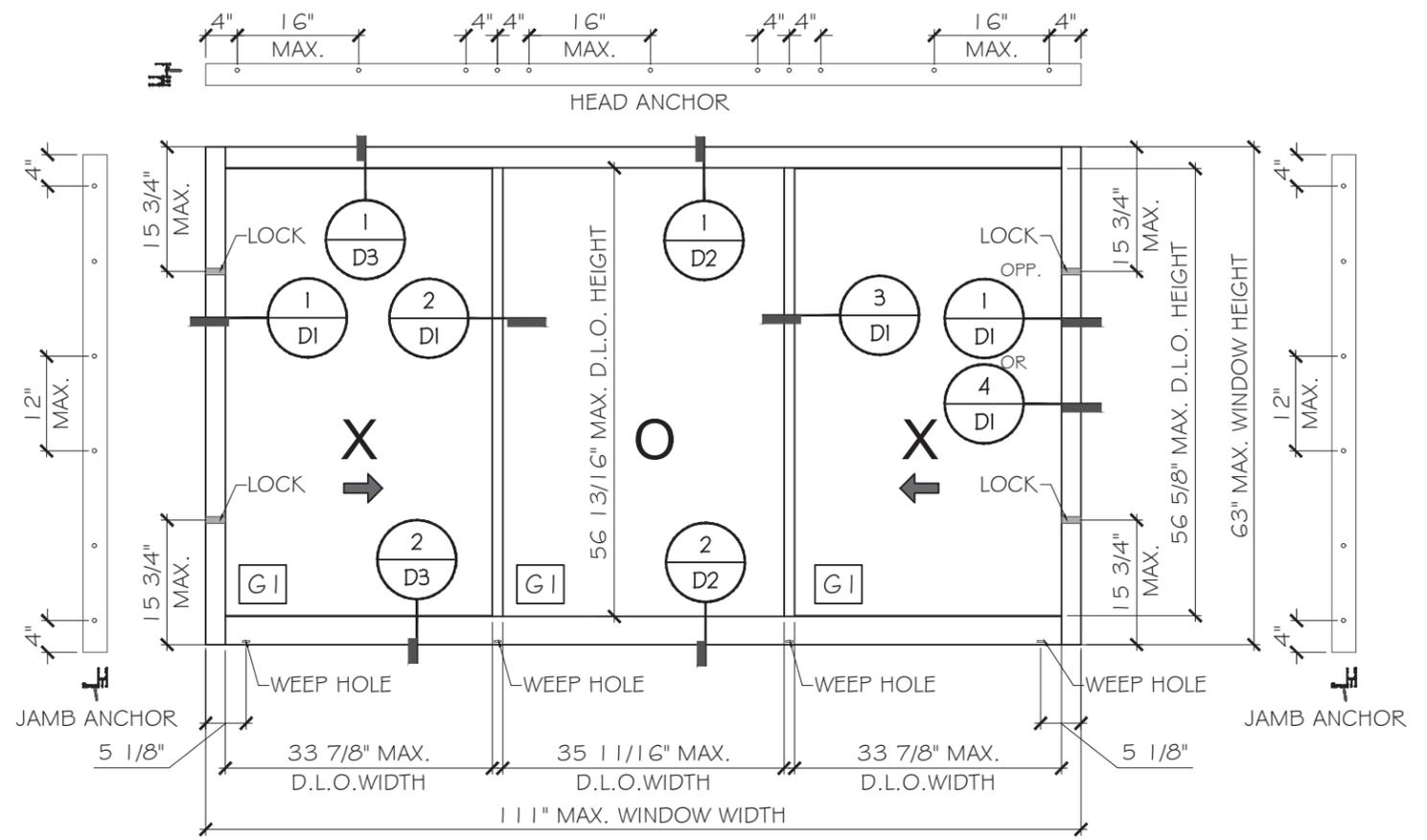
Drawn Date	12.27.2025	Scale	AS SHOWN	NEW APPLICATION	Description
Rev. No.	01	Date	12.27.2025	Drawn By	James
DRAWING NO. AD25-59					
COVER					
Sheet No. 1 OF 14					



SILL ANCHOR LAYOUT (TYPE A & B & C & AA & CC)
ANCHOR LAYOUT FOR TYPE BB SEE SHEET A4

TYPICAL EXTERIOR ELEVATIONS

MAX. DESIGN LOAD: ± 110 PSF
SEE SHEET G1 FOR OTHER SIZE & DESIGN LOAD.
SEE SHEET A1 TO A4 FOR ANCHOR OPTIONS



SILL ANCHOR LAYOUT (TYPE A & B & C & AA & CC)
ANCHOR LAYOUT FOR TYPE BB SEE SHEET A4

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SEE SHEET G1 FOR OTHER SIZE & DESIGN LOAD.
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FLORIDA APPROVAL:
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YIPING WANG
FLORIDA REGISTRATION
No. 55983
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No. 55989
STATE OF FLORIDA
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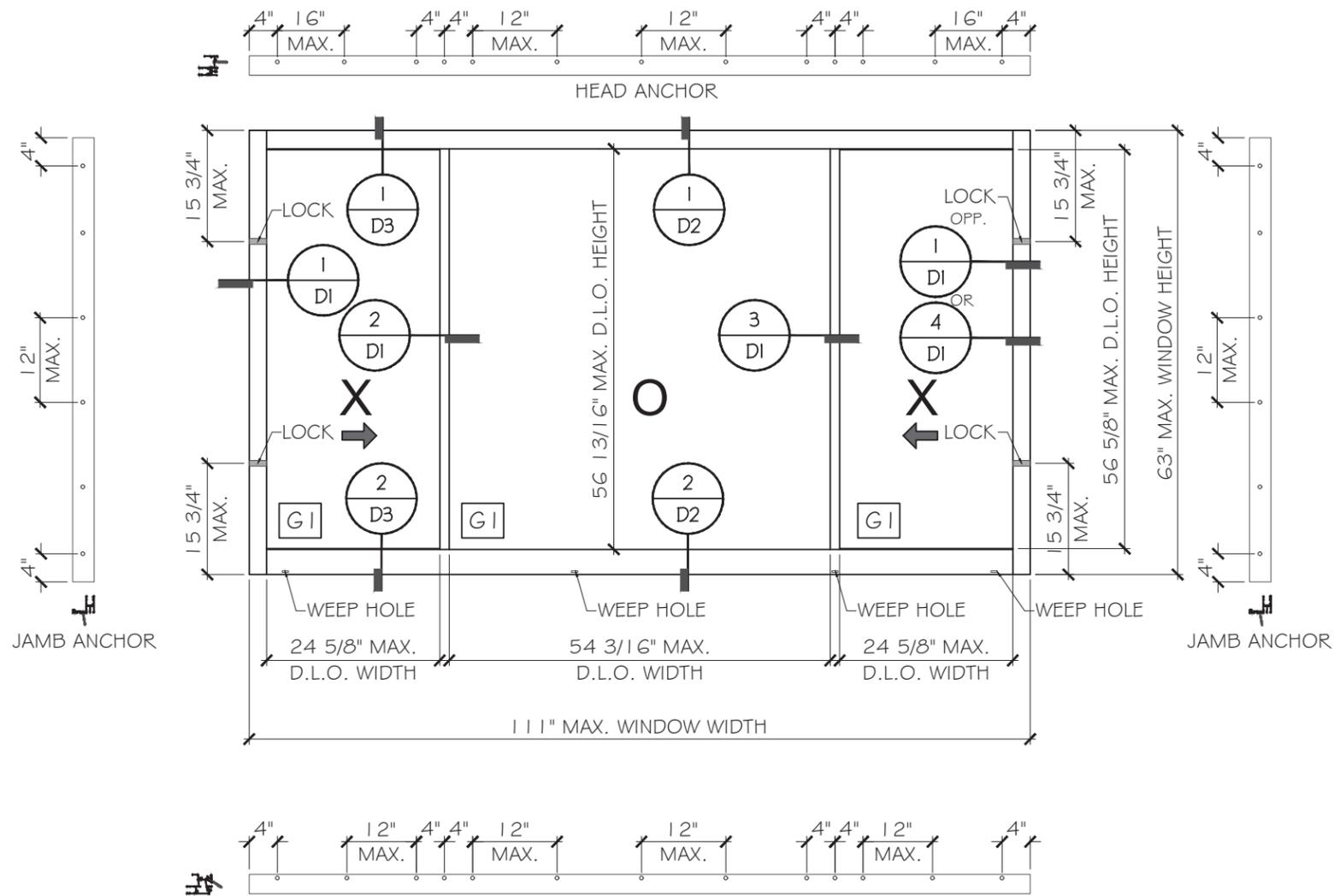
HORIZONTAL ROLLER WINDOW - SMI

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Drawn Date: 12.27.2025 Scale: AS SHOWN

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Sheet No. 2 OF 14



SILL ANCHOR LAYOUT (TYPE A & B & C & AA & CC)
 ANCHOR LAYOUT FOR TYPE BB SEE SHEET A4

TYPICAL EXTERIOR ELEVATIONS

MAX. DESIGN LOAD: ± 110 PSF
 SEE SHEET G1 FOR OTHER SIZE & DESIGN LOAD.
 SEE SHEET A1 TO A4 FOR ANCHOR OPTIONS

FLORIDA APPROVAL:
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Professional Engineer Seal for YIPING WANG, No. 55989, State of Florida, dated February 06th, 2026.

Rev. No.	Date	Drawn By	Description
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Drawn Date: 12.27.2025 Scale: AS SHOWN

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Sheet No. E2

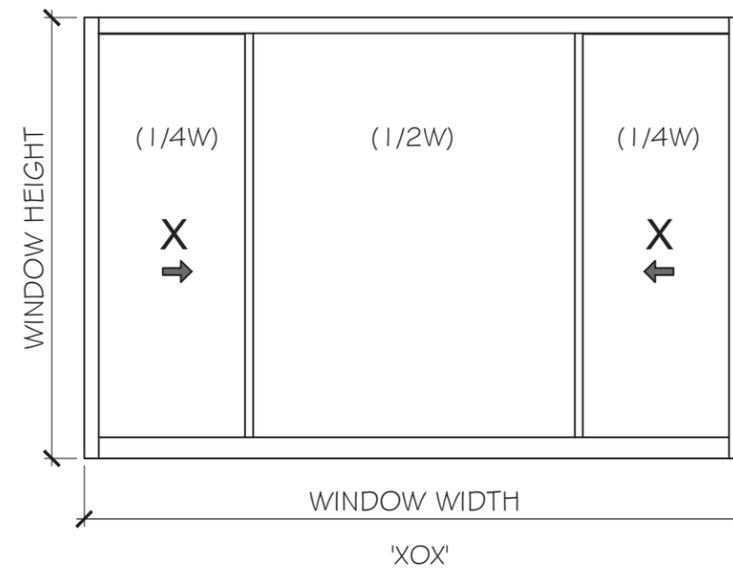
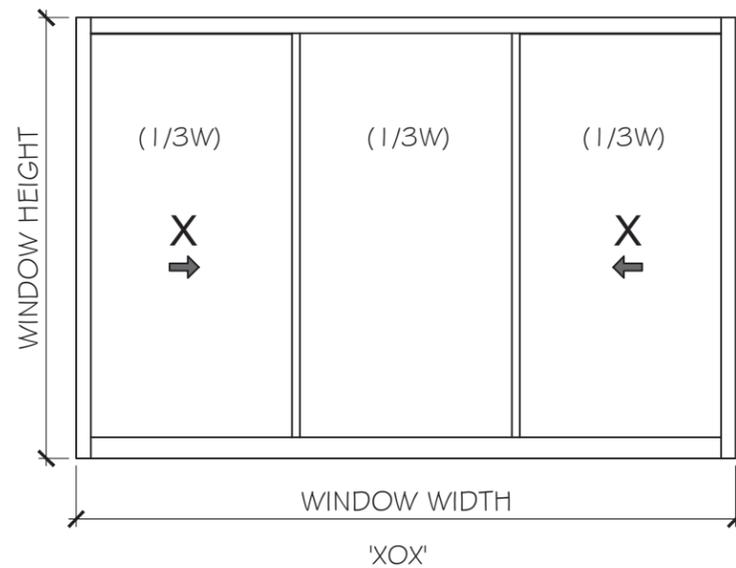
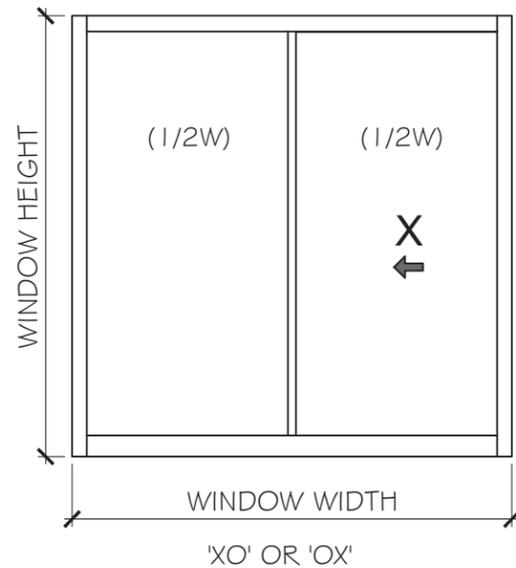
3 OF 14

DESIGN LOAD CAPACITY-PSF (XO OR OX COMMODITY SIZE)		
WINDOW WIDTH	WINDOW HEIGHT	G I (SMI)
INCH	INCH	(+/-)
26 1/2	26	110.0
37		110.0
53 1/8		110.0
74		110.0
26 1/2	39	110.0
37		110.0
53 1/8		110.0
74		110.0
26 1/2	51	110.0
37		110.0
53 1/8		110.0
74		110.0
26 1/2	56	110.0
37		110.0
53 1/8		110.0
74		110.0
26 1/2	63	110.0
37		110.0
53 1/8		110.0
74		110.0
26 1/2	74	110.0
37		110.0
53 1/8		86.3
63		74.4

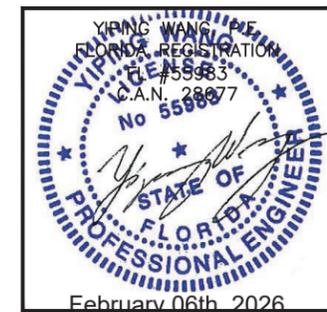
DESIGN LOAD CAPACITY-PSF (XOX COMMODITY SIZE)		
WINDOW WIDTH	WINDOW HEIGHT	G I (SMI)
INCH	INCH	(+/-)
74	26	110.0
106 1/2		110.0
111		110.0
74	39	110.0
106 1/2		110.0
111		110.0
74	51	110.0
106 1/2		110.0
111		110.0
74	56	110.0
106 1/2		110.0
111		110.0
74	63	110.0
106 1/2		110.0
111		110.0
54	74	110.0
72		110.0
84.5		86.3
90		74.4

DESIGN LOAD CAPACITY-PSF (XO OR OX STANDARD SIZE)		
WINDOW WIDTH	WINDOW HEIGHT	G I (SMI)
INCH	INCH	(+/-)
36	48	110.0
48		110.0
60		110.0
72		110.0
84		110.0
36	60	110.0
48		110.0
60		110.0
72		110.0
36	63	110.0
48		110.0
60		110.0
72		110.0
74		110.0
36	74	110.0
48		94.6
60		77.6
72		74.4
81		68.8
36	80	97.7
48		74.4
60		78.4
72		59.6
81		53.5

DESIGN LOAD CAPACITY-PSF (XOX STANDARD SIZE)		
WINDOW WIDTH	WINDOW HEIGHT	G I (SMI)
INCH	INCH	(+/-)
54	48	110.0
72		110.0
90		110.0
108		110.0
126		110.0
54	60	110.0
72		110.0
90		110.0
108		110.0
54	63	110.0
72		110.0
90		110.0
108		110.0
111		110.0
54	74	110.0
72		94.6
90		77.6
108		74.4
81		68.8
54	80	97.7
72		74.4
90		78.4
108		59.6
111		53.5



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01	12.27.2025	James	NEW APPLICATION

Drawn Date: 12.27.2025 Scale: AS SHOWN
DRAWING NO.: AD25-59
Sheet No.: 4 OF 14

HEAD TYPICAL ANCHOR TYPES:

ANCHOR TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu= 164 KSI, Fy= 148 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 WITH 1 1/2" MIN. PENETRATION.
 OR THRU 1 BY/2BY WOOD BUCKS INTO CONCRETE
 WITH 1 3/4" MIN. EMBEDMENT.

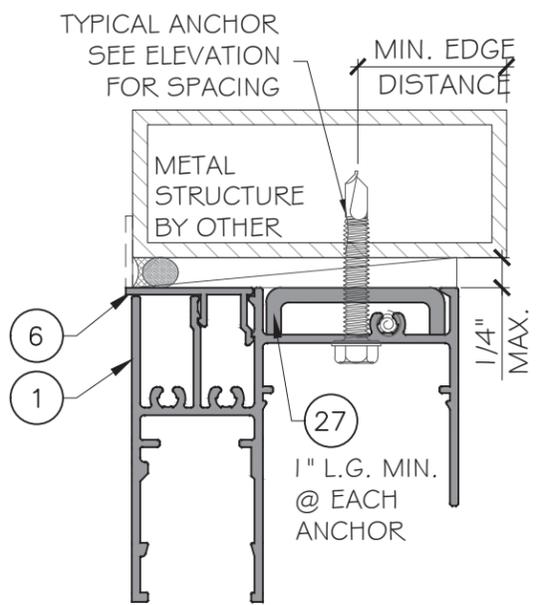
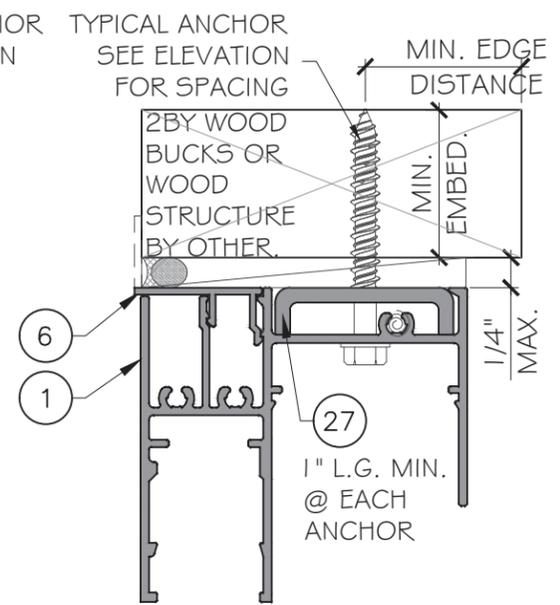
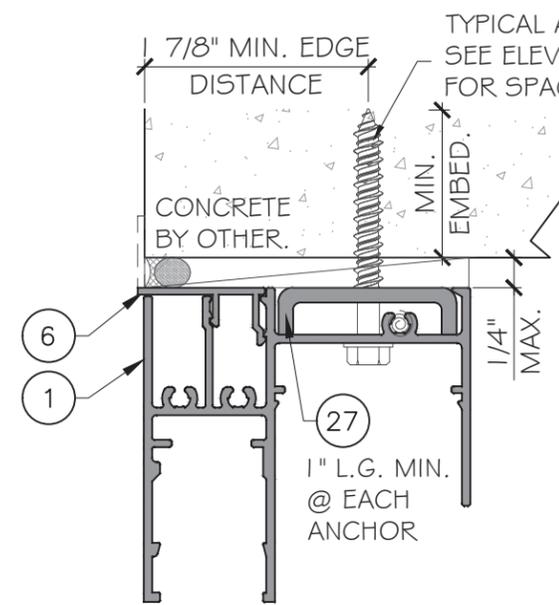
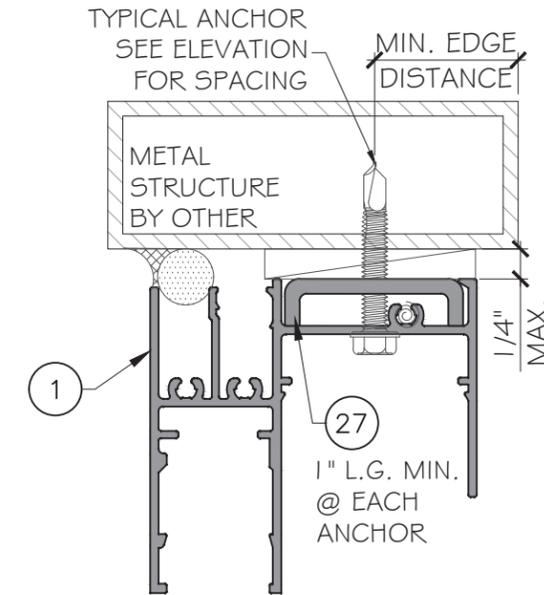
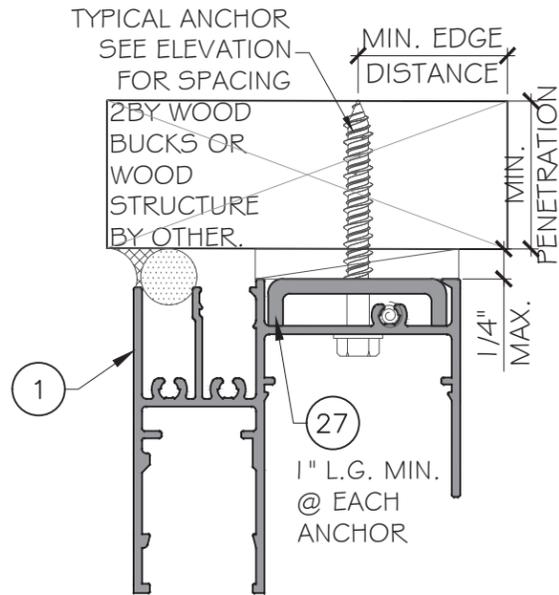
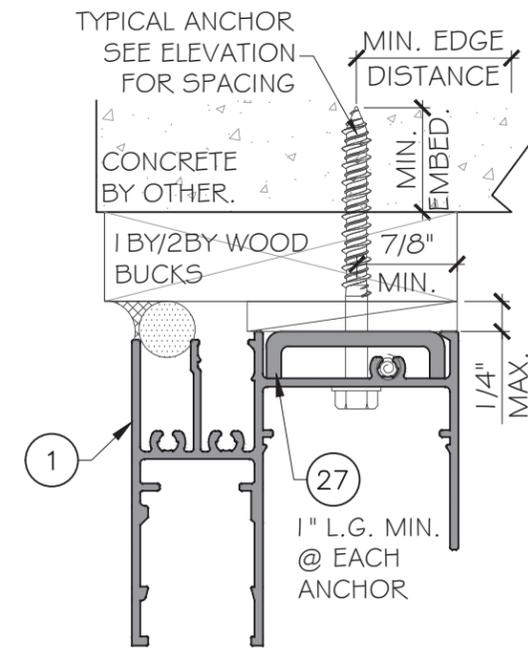
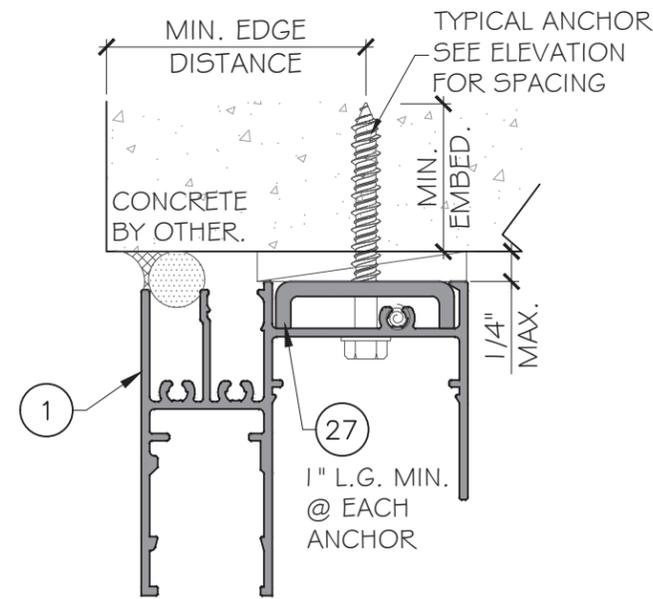
ANCHOR TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu= 164 KSI, Fy= 148 KSI)
 DIRECTLY INTO CONCRETE W/1 3/4" MIN. EMBEDMENT.

ANCHOR TYPE 'C' - 1/4" DIA. SELF-DRILLING SCREWS, GRADE 5 (Fu= 120KSI, Fy=92KSI)
 INTO F.B.C. APPROVED ALUMINUM MULLIONS OR METAL STRUCTURES.
 (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE.
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
 INTO CONCRETE = 1 7/8" MIN.
 INTO WOOD = 7/8" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

SUBSTRATE
 WOOD :SG=0.55MIN.
 CONCRETE : f'c=3000 PSI MIN.
 ALUMINUM : 1/8" THK. MIN. (6063-T5, MIN)
 STEEL : 12GA THK. MIN. (Fy=36KSI MIN)

NOTE:
 METAL STRUCTURES OR WOOD STRUCTURES BY OTHERS TO BE DESIGNED AND
 ANCHORED PROPERLY TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING
 SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.



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Sheet No.			
5 OF 14			

JAMB TYPICAL ANCHOR TYPES:

ANCHOR TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu= 164 KSI, Fy= 148 KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURE WITH 1 1/2" MIN. PENETRATION.

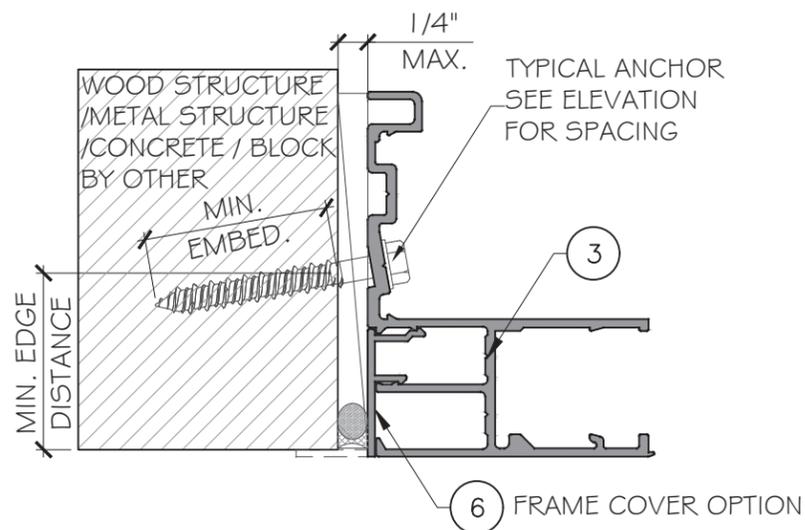
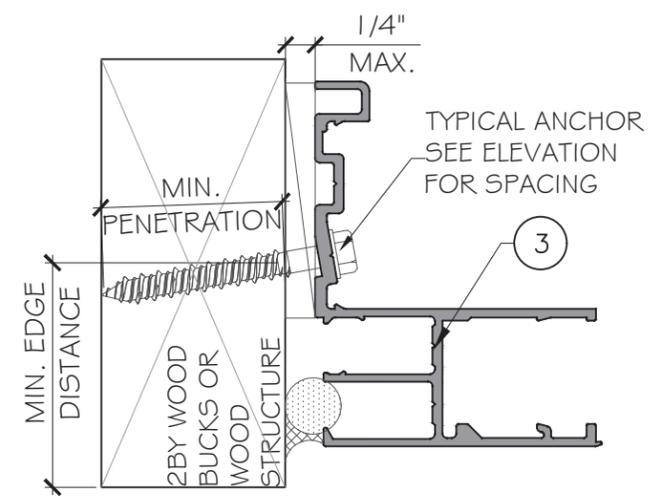
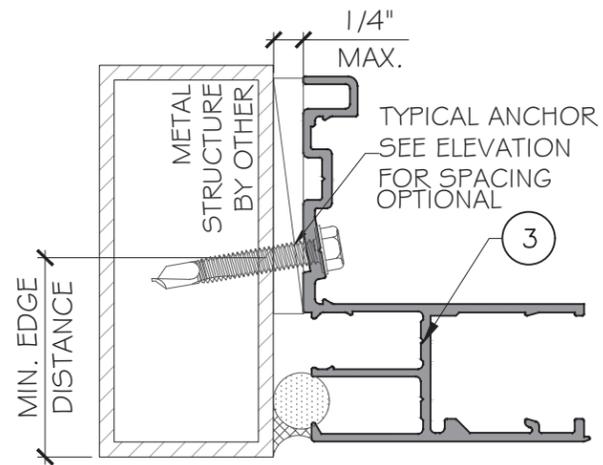
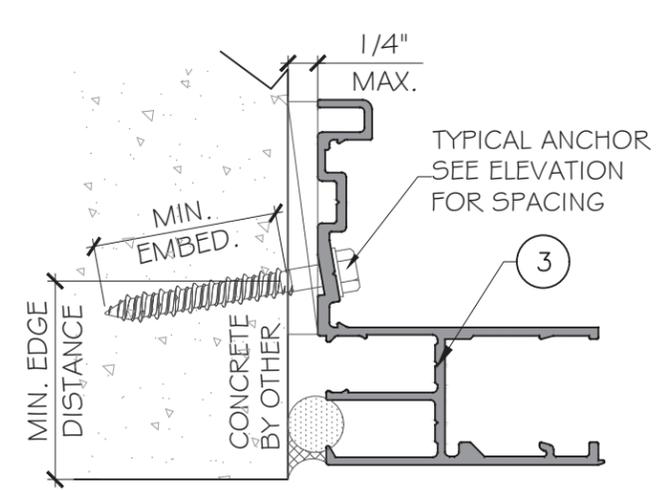
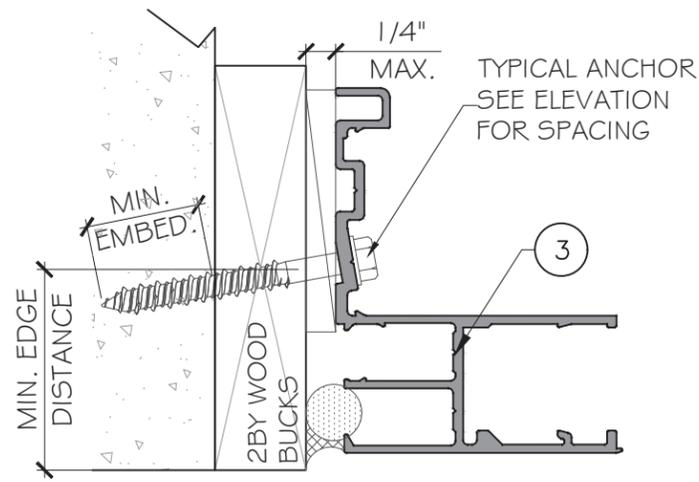
ANCHOR TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu= 164 KSI, Fy= 148 KSI) DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCK W/1 1/2" MIN. EMBEDMENT. OR THRU 1 BY/2BY WOOD BUCKS INTO CONCRETE OR GROUT FILLED BLOCK WITH 1 1/2" MIN. EMBEDMENT.

ANCHOR TYPE 'C' - 1/4" DIA. SELF-DRILLING SCREWS, GRADE 5 (Fu= 120KSI, Fy=92KSI) INTO F.B.C. APPROVED ALUMINUM MULLIONS OR METAL STRUCTURES. (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE. (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

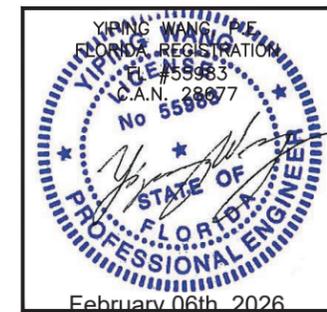
TYPICAL EDGE DISTANCE
 INTO CONCRETE = 1 1/4" MIN.
 INTO WOOD = 1 1/4" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

SUBSTRATE
 WOOD :SG=0.55MIN.
 CONCRETE : f_c=3000 PSI MIN.
 C-90 GROUT FILLED BLOCK: f_m=2 KSI.
 ALUMINUM : 1/8" THK. MIN. (G063-T5, MIN)
 STEEL : 12GA THK. MIN. (F_y=36KSI MIN)

NOTE:
 METAL STRUCTURES OR WOOD STRUCTURES BY OTHERS TO BE DESIGNED AND ANCHORED PROPERLY TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.



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SILL TYPICAL ANCHOR TYPES:

ANCHOR TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu= 164 KSI, Fy= 148 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 WITH 1 1/2" MIN. PENETRATION.

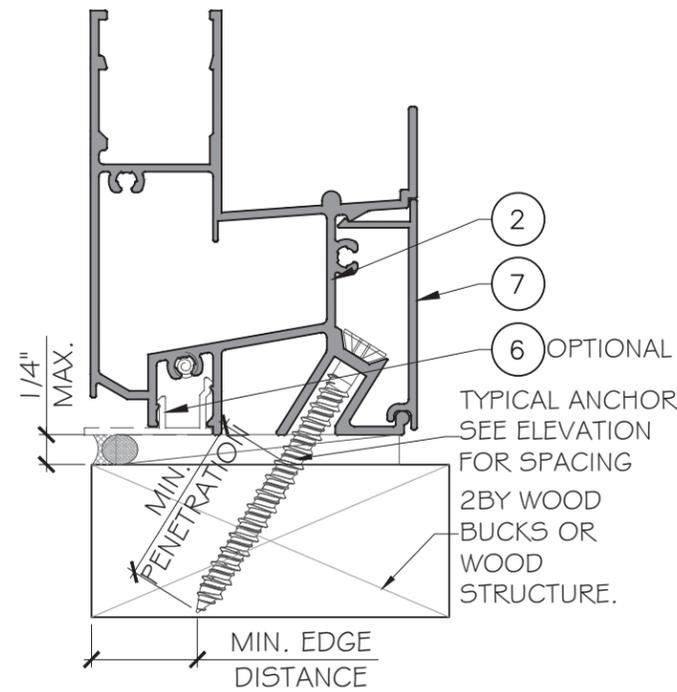
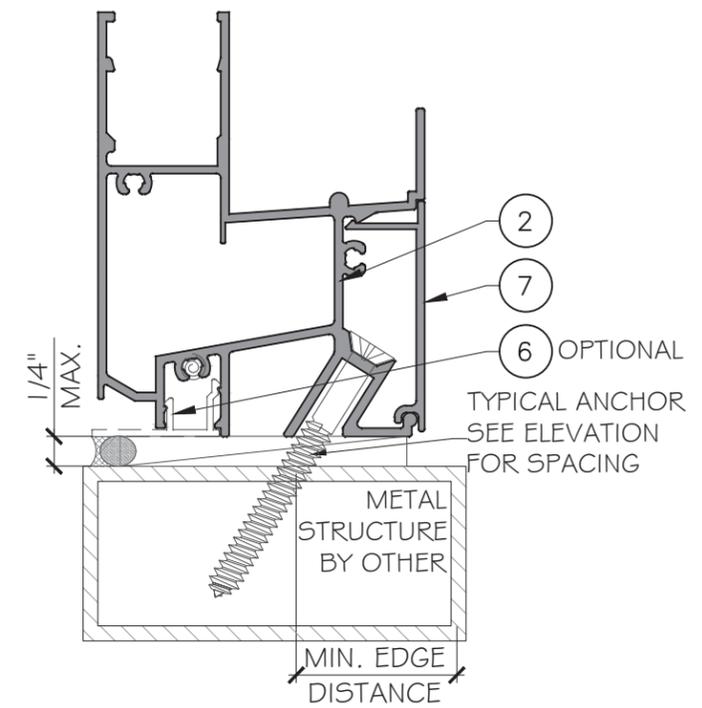
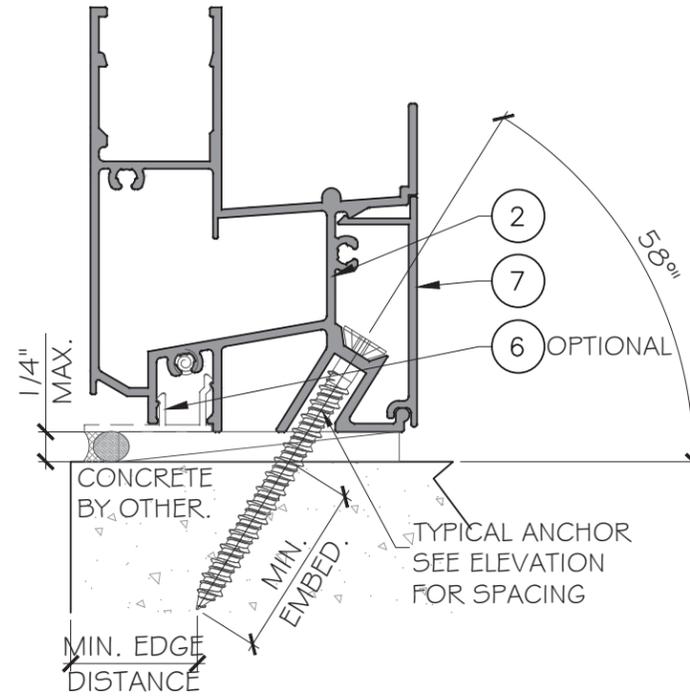
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 DIRECTLY INTO CONCRETE W/ 1 3/4" MIN. EMBEDMENT.

ANCHOR TYPE 'C' - 1/4" DIA. SELF-DRILLING SCREWS, GRADE 5 (Fu= 120KSI, Fy=92KSI)
 INTO F.B.C. APPROVED ALUMINUM MULLIONS OR METAL STRUCTURES.
 (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE.
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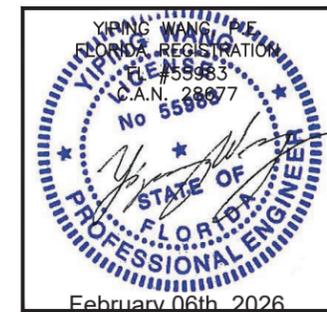
TYPICAL EDGE DISTANCE
 INTO CONCRETE = 1 7/8" MIN.
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SUBSTRATE
 WOOD :SG=0.55MIN.
 CONCRETE : f'c=3000 PSI MIN.
 ALUMINUM : 1/8" THK. MIN. (6063-T5, MIN)
 STEEL : 12GA THK. MIN. (Fy=36KSI MIN)

NOTE:
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SILL TYPICAL ANCHOR TYPES (FLANGE FRAME):

ANCHOR TYPE 'AA' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURE WITH 1 1/2" MIN. PENETRATION.

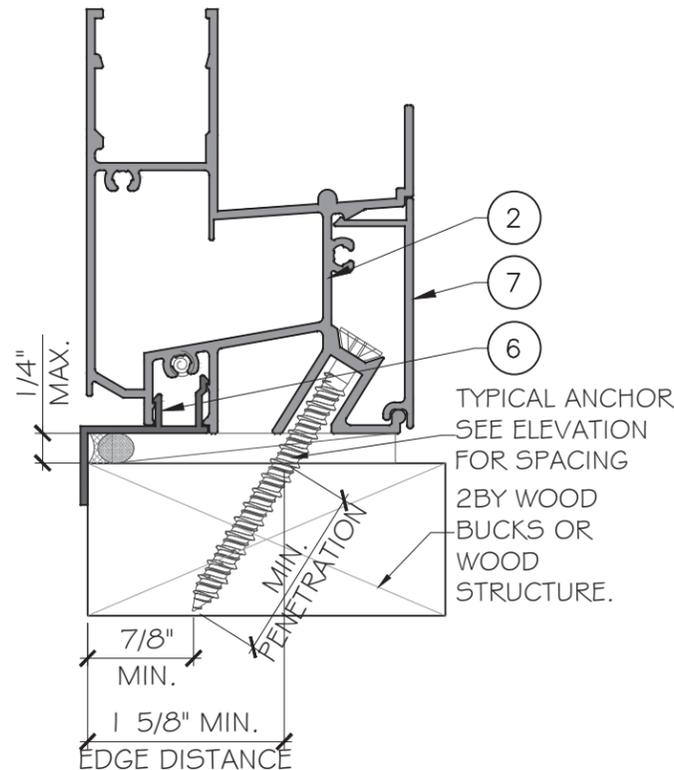
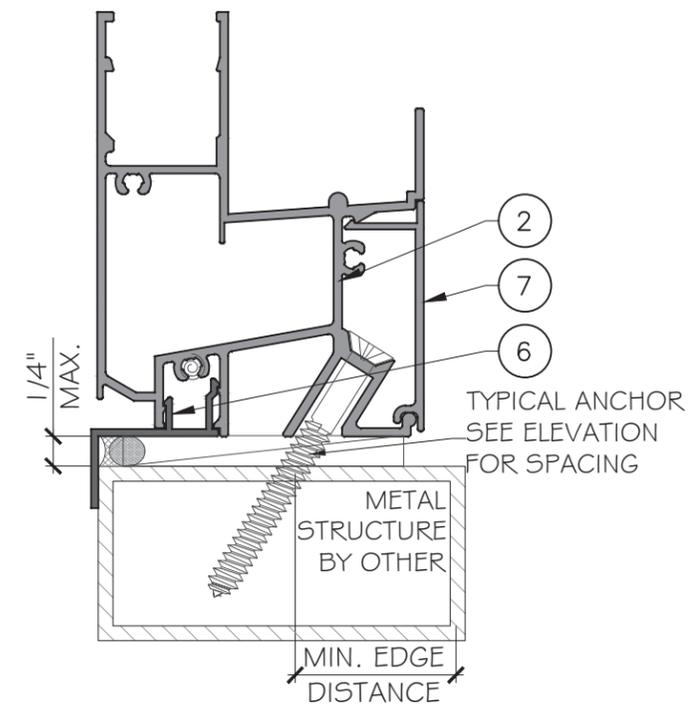
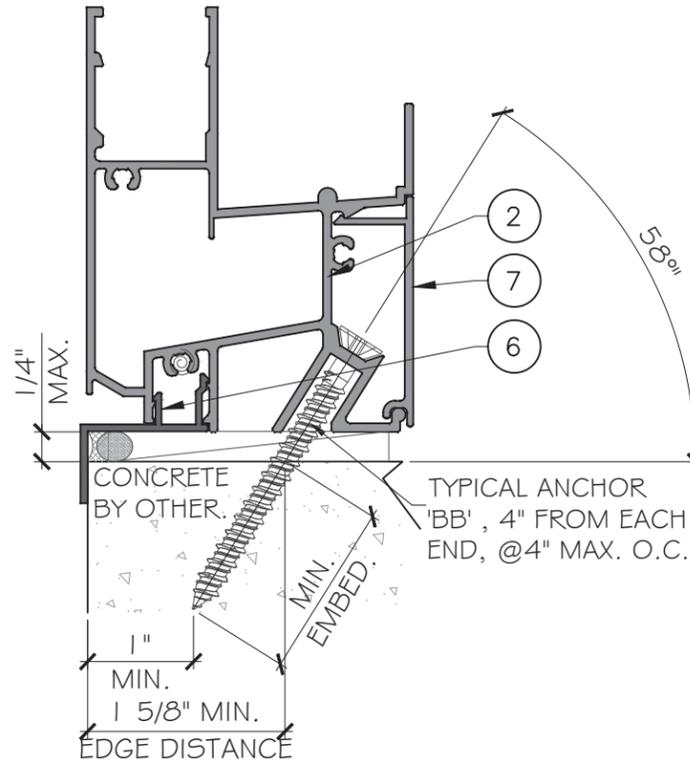
ANCHOR TYPE 'BB' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) DIRECTLY INTO CONCRETE W/ 1" MIN. EMBEDMENT.

ANCHOR TYPE 'CC' - 1/4" DIA. SELF-DRILLING SCREWS, GRADE 5 (Fu=120KSI, Fy=92KSI) INTO F.B.C. APPROVED ALUMINUM MULLIONS OR METAL STRUCTURES. (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE. (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

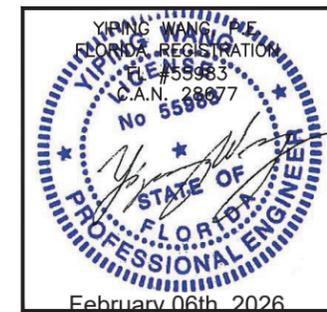
TYPICAL EDGE DISTANCE INTO CONCRETE = 1 5/8" MIN.
 INTO WOOD = 1 5/8" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

SUBSTRATE
 WOOD :SG=0.55MIN.
 CONCRETE : fc=3000 PSI MIN.
 ALUMINUM : 1/8" THK. MIN. (6063-T5, MIN)
 STEEL : 12GA THK. MIN. (Fy=36KSI MIN)

NOTE:
 METAL STRUCTURES OR WOOD STRUCTURES BY OTHERS TO BE DESIGNED AND ANCHORED PROPERLY TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.



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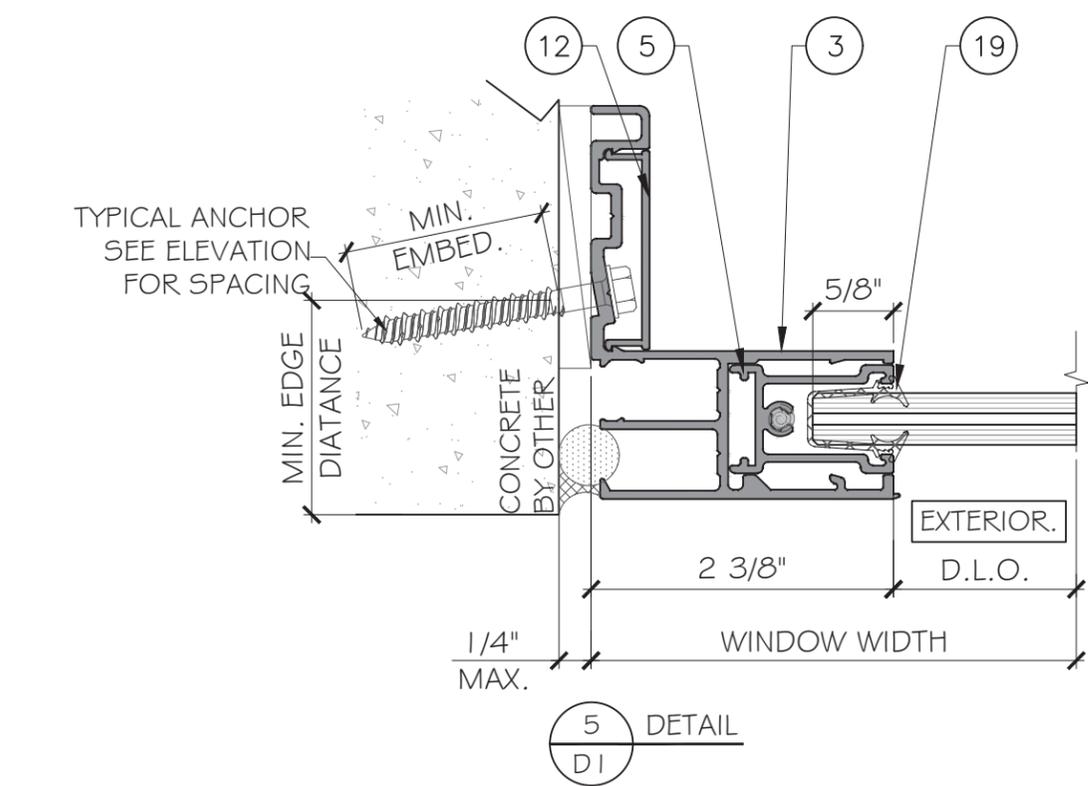
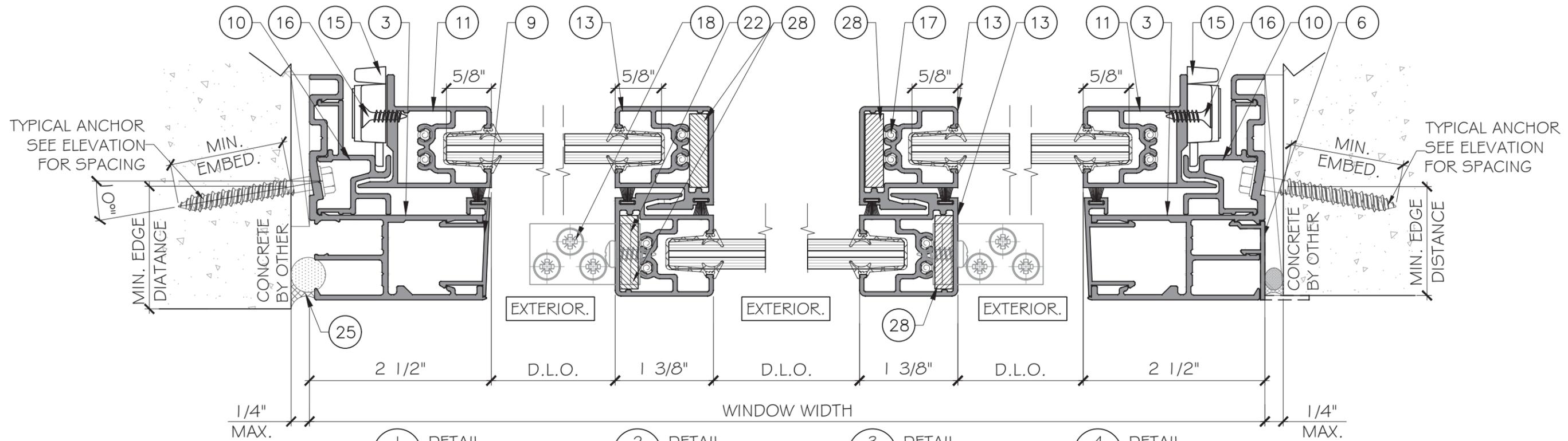
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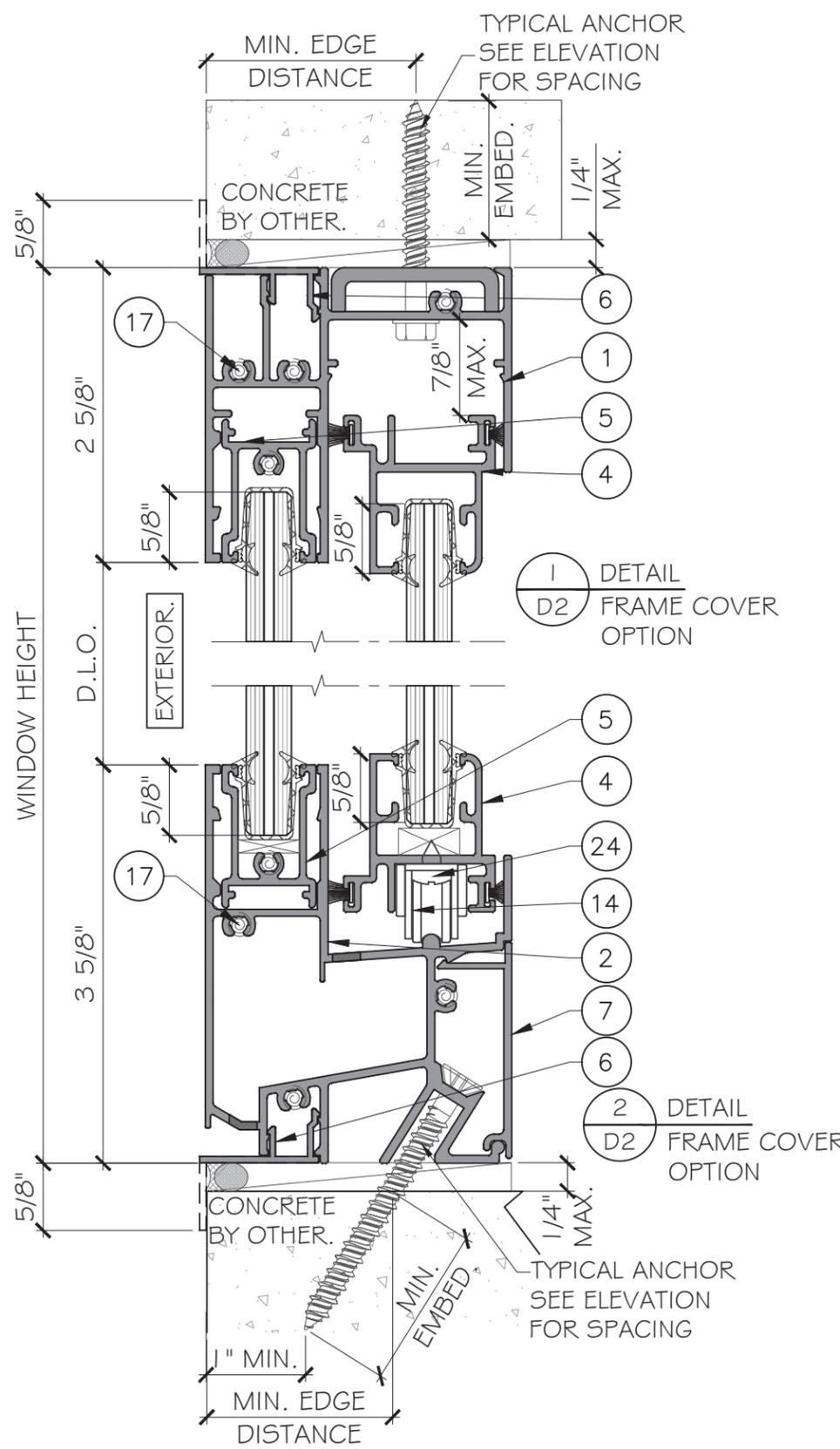
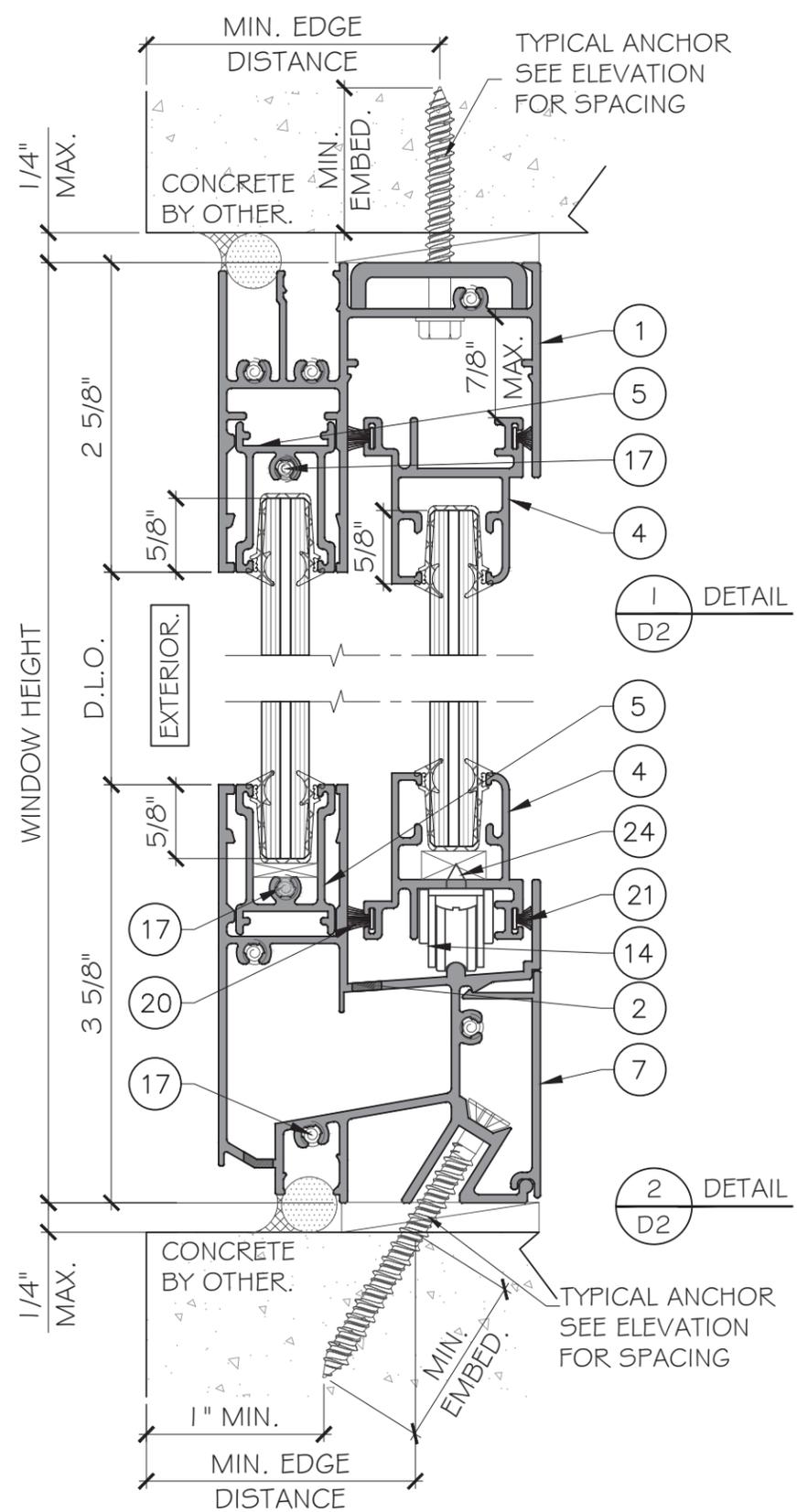
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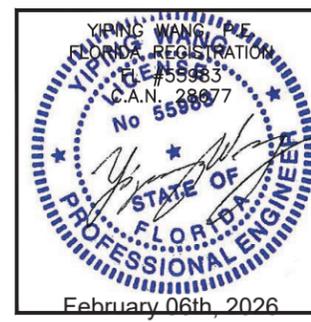
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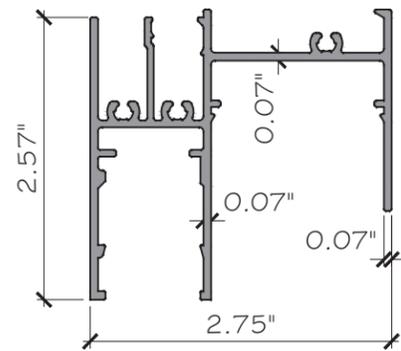


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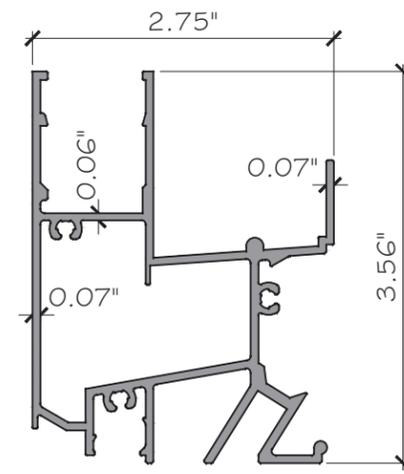
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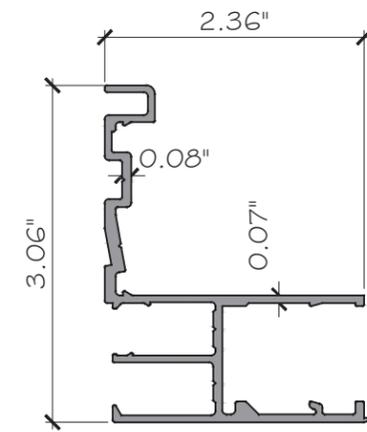
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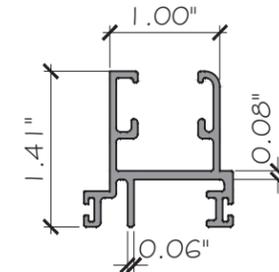
① FRAME HEAD DC1098
ALUM. 6005-T5



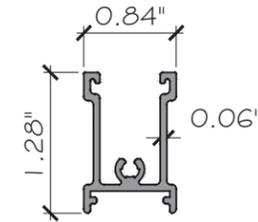
② FRAME SILL DC1100
ALUM. 6005-T5



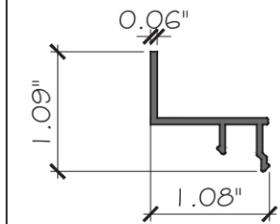
③ FRAME JAMB DC1099
ALUM. 6005-T5



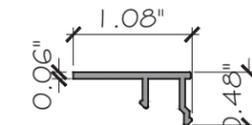
④ SASH TOP/BOTTOM RAIL
DC1101
ALUM. 6005-T5



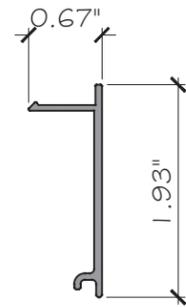
⑤ SASH FIX DC1104
ALUM. 6005-T5



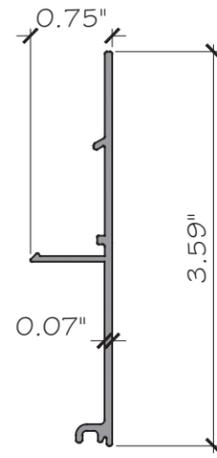
⑥ FRAME FLANGE COVER
PR-DC1200
ALUM. 6005-T5



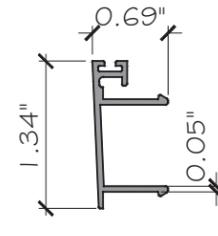
⑥ FRAME COVER
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ALUM. 6005-T5



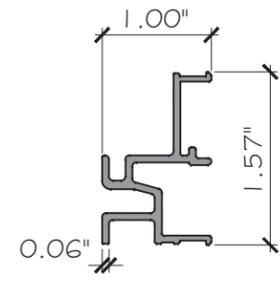
⑦ FRAME SILL COVER
DC1107
ALUM. 6005-T5



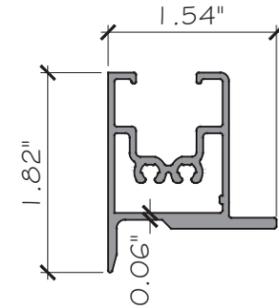
⑧ SILL RISER DC1108
ALUM. 6005-T5



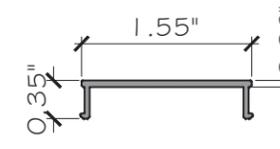
⑨ EXTERIOR FRAME COVER
DC1106
ALUM. 6005-T5



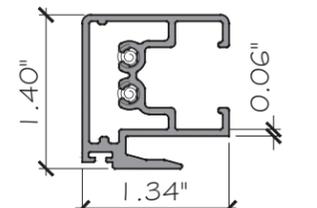
⑩ FRAME LOCK
DC1105
ALUM. 6005-T5



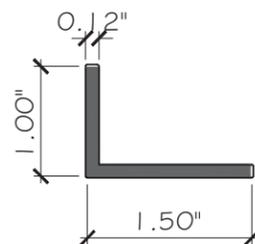
⑪ SASH JAMB DC1103
ALUM. 6005-T5



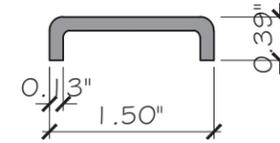
⑫ FRAME JAMB COVER
DC109
ALUM. 6005-T5



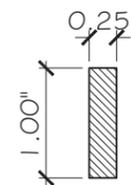
⑬ SASH INTERLOCK
DC1102
ALUM. 6005-T5



⑳ ANGLE. FO012
ALUM. 6005-T5

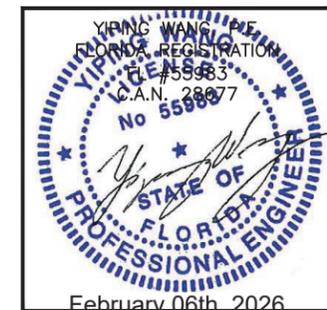


㉑ ALUM CHANNEL
ALUM. 6005-T5



㉒ REINF. DC1106
STEEL.

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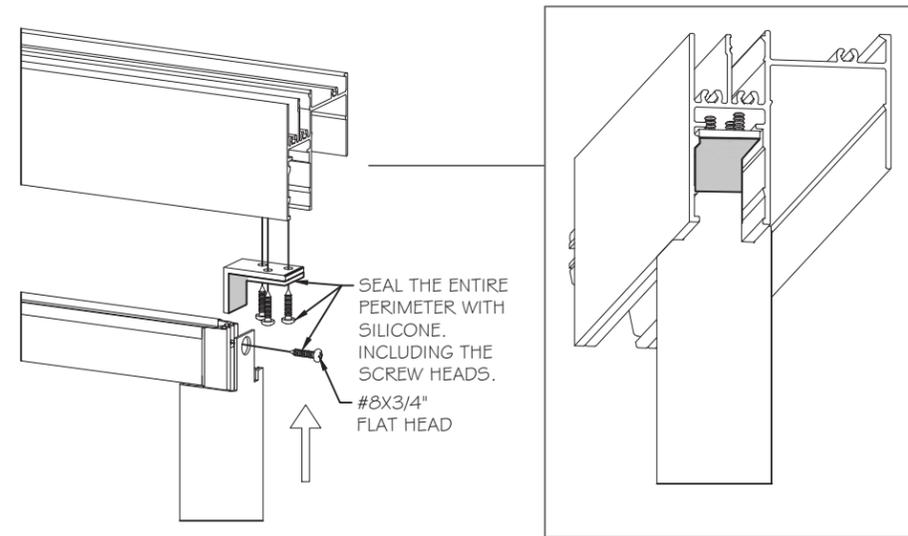
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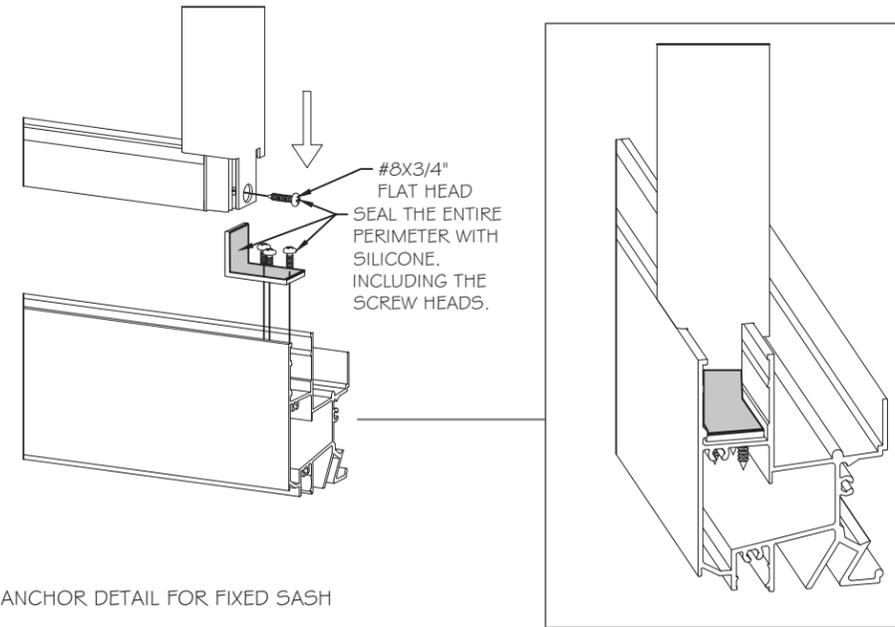
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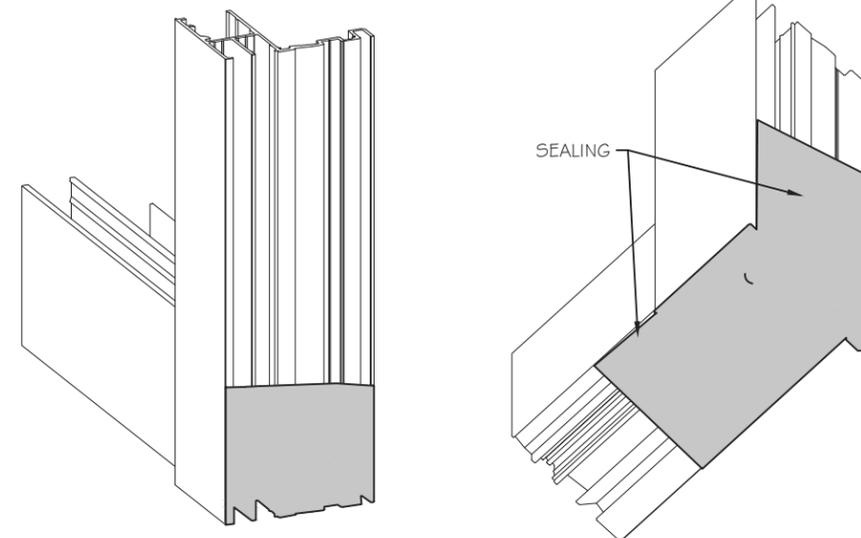
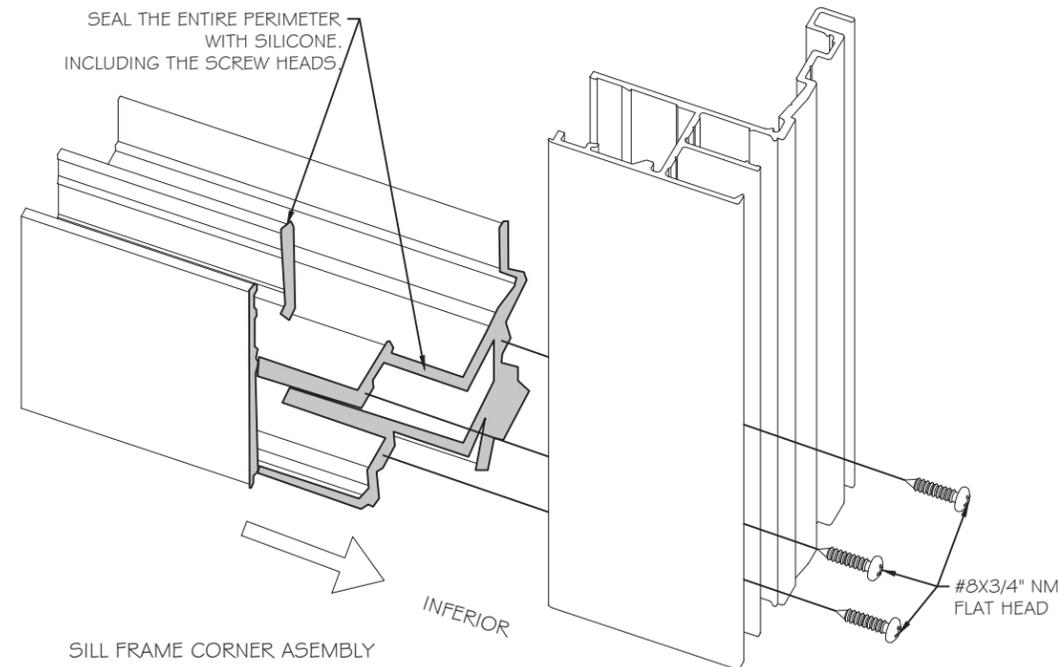
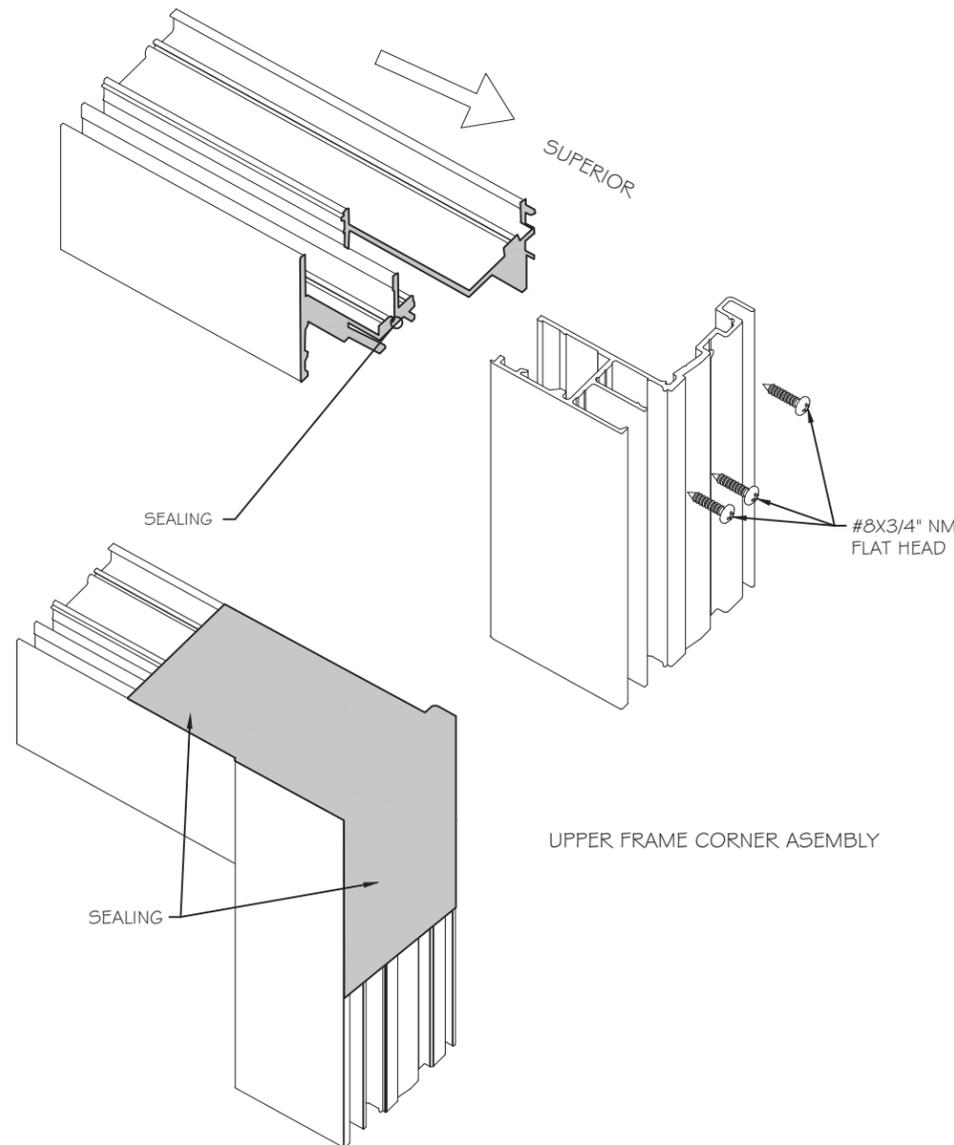
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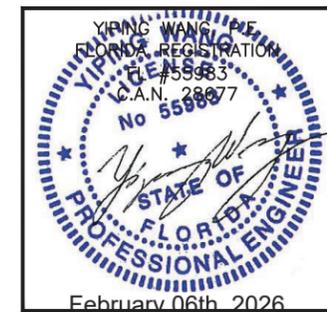
ANCHOR DETAIL FOR FIXED SASH



ANCHOR DETAIL FOR FIXED SASH



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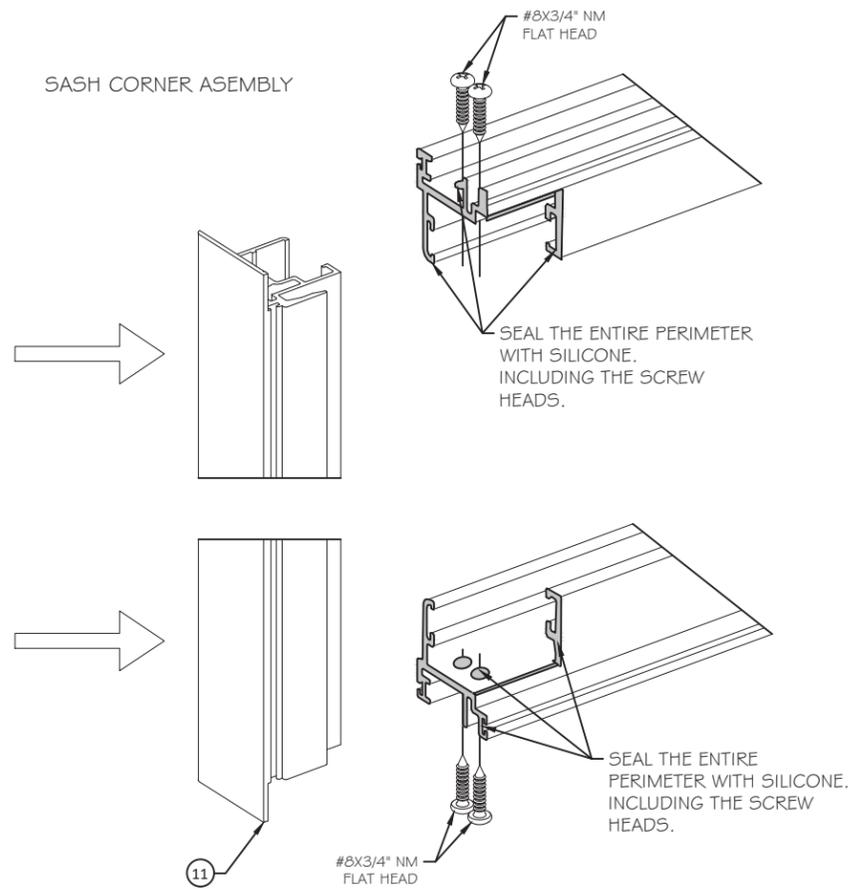
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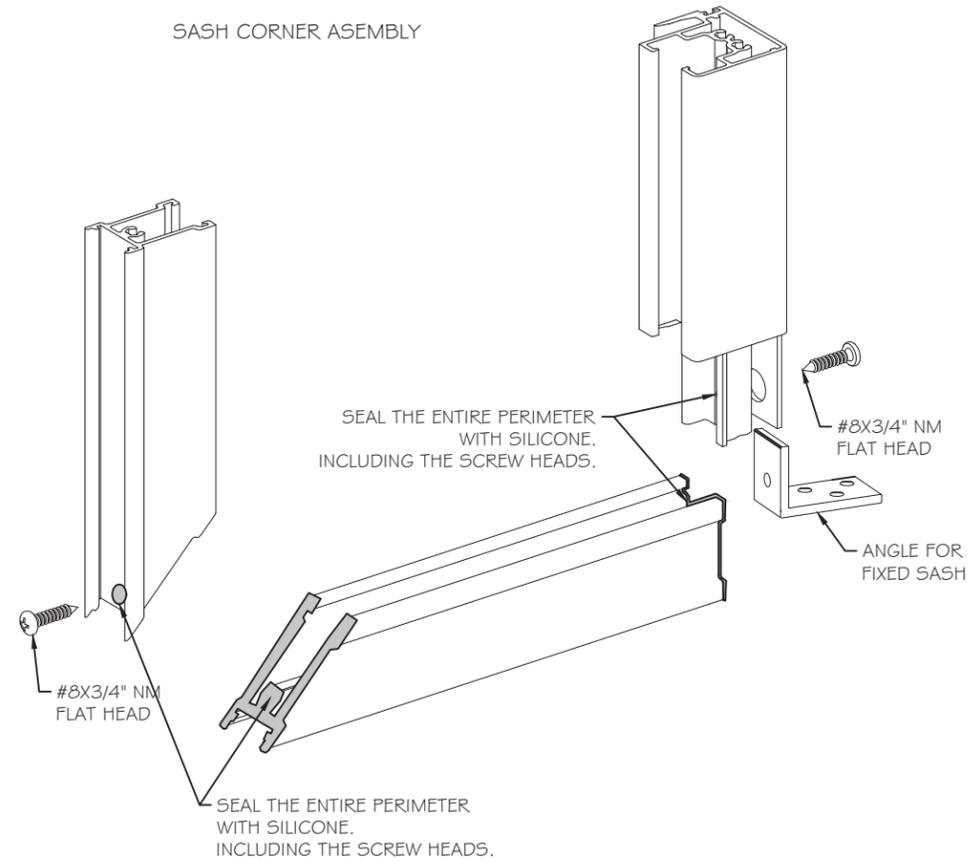
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SASH CORNER ASSEMBLY



SASH CORNER ASSEMBLY



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YIPING WANG
FLORIDA REGISTRATION
No. 55983
C.A.N. 28877
No. 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER
February 06th, 2026

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BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	MANUF. / REMARKS
1	DC1098	FRAME HEAD	ALUMINUM 6005-T5	FISA
2	DC1100	FRAME SILL	ALUMINUM 6005-T5	FISA
3	DC1099	FRAME JAMB	ALUMINUM 6005-T5	FISA
4	DC1101	SASH TOP/BOTTOM RAIL	ALUMINUM 6005-T5	FISA
5	DC1104	SASH FIX	ALUMINUM 6005-T5	FISA
6	PR-DC1200	FRAME FIN COVER	ALUMINUM 6005-T5	FISA
7	DC1107	FRAME SILL COVER	ALUMINUM 6005-T5	FISA
8	DC1108	SILL RISER	ALUMINUM 6005-T5	FISA
9	DC1106	EXTERIOR FRAME COVER	ALUMINUM 6005-T5	FISA
10	DC1105	FRAME LOCK	ALUMINUM 6005-T5	FISA
11	DC1103	SASH JAMB	ALUMINUM 6005-T5	FISA
12	DC1109	FRAME JAMB COVER	ALUMINUM 6005-T5	FISA
13	DC1102	SASH INTERLOCK	ALUMINUM 6005-T5	FISA
14	RU-SFA-KA	ROLLER	POLIAMIDE, INOX	PABOSE
15	AC-SEG-DURA-01	LOCK	ZAMACK, STEEL	T.H. ENTREPRICES LLC
16	AC-T-0.75-8-AV-NM-NX	LOCK SCREW #8X3/4"	ST.STEEL	GOLA
17	AC-T-1-8-RD-NM-NX	FRAME/VENT SCREWS #8X3/4"	ST.STEEL	GOLA
18	AC-T-0.62-10-RD-NM-NX	#8 X 3/4"	ST.STEEL	GOLA
19	AC-E-U-V10-8	"U" GLAZING VNYL	EPDM 73 SHORE	EXTRUSIONS
20	AC-FL-5X5-TF	TRI-FIN 5X7	POLYPROPYLENE	ULTRAFAB
21	AC-FL-4.8X4.5-8	FIN SEAL 5X5	POLYPROPYLENE	TESCEAL
22	FO012	ANGLE 1" X 1.5" X 1/8" @ MTG.	ALUMINUM 6005-T5	FISA
23	SIKA SG-20	STRUCTURAL SILICONE	SILICONE	SIKA
	SG500	STRUCTURAL SILICONE (AS OPTION)	SILICONE	SIKA
	DC983	STRUCTURAL SILICONE (AS OPTION)	SILICONE	DOW CORNING
	DC995	STRUCTURAL SILICONE (AS OPTION)	SILICONE	DOW CORNING
24	AC-T-0.5-8-RD-NM-NX	ROLLER SCREW #8 X 1/2"	ST.STEEL	GOLA
25	-	WEATHER SEALANT DS791	SILICONE	DOWSIL
26	TA-CORR-DA-01	DRAIN VALVE	PLATSIC	-
27	-	ALUMINUM CHANNEL @ ANCHOR LOCATION	ALUMINUM 6005-T5	VARIES
28	DC1106	STEEL REINF.	STEEL	FISA

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