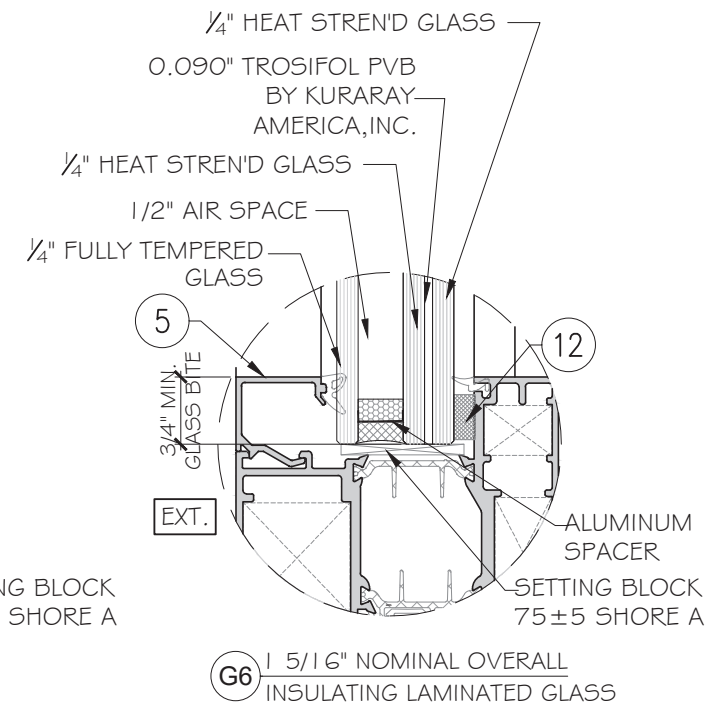
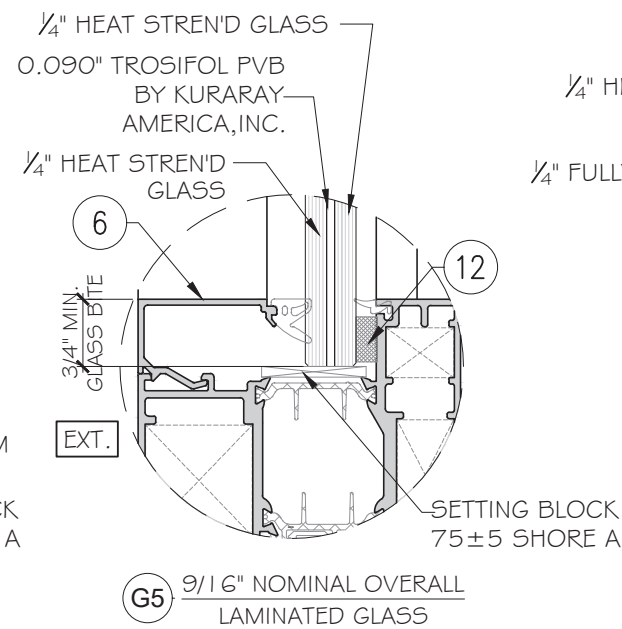
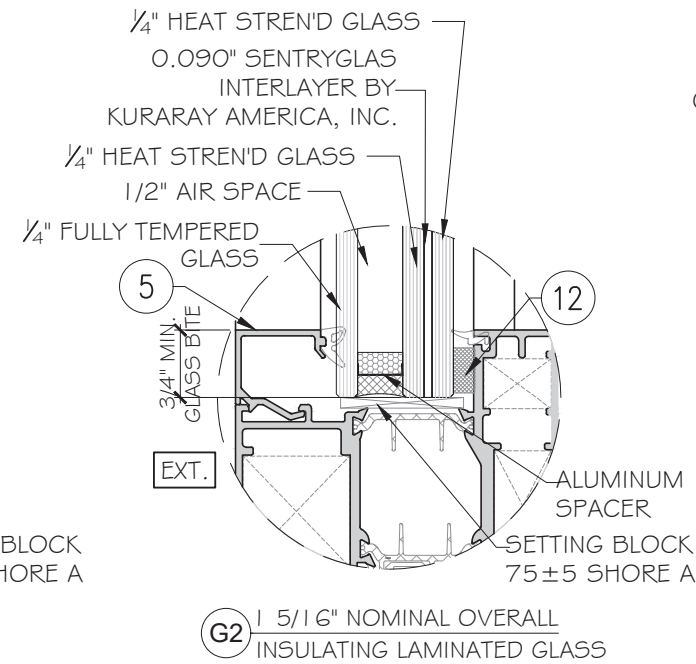
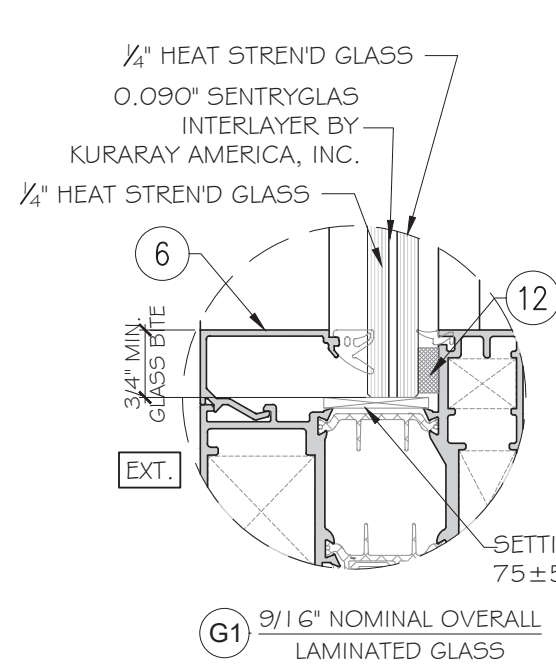


KA 4016 ALUMINUM FRENCH DOOR LARGE MISSILE IMPACT



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

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOOR IS DESIGNED TO BE USED AT LARGE MISSILE AREA. SHUTTER IS NOT REQUIRED.
- DOORS ARE APPROVED FOR AIR RESISTANCE.
- 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 FLORIDA BUILDING CODE 8TH EDITION (2023) SECTION AS APPLICABLE.
- WOOD BUCKS/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.
- 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.
- NOTE: HARDWARE CHECKED FOR WIND LOAD IN CLOSED POSITION ONLY; OPERATION PER MANUFACTURER'S INSTRUCTIONS. DOORS MUST BE CLOSED AND SECURED WHEN A HURRICANE WARNING IS ISSUED.

INSTRUCTIONS:
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.
- STEP 2: SEE TYPICAL ELEVATION ON SHEET E1 ~E4 FOR MAXIMUM SIZES AND DESIGN LOADS.
- STEP 3: SEE ANCHOR TYPES ON SHEET A1. SEE SHEET E1 ~E4 FOR ANCHOR SPACING.
- STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

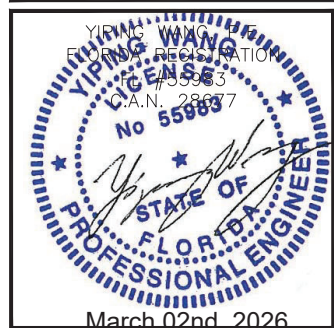
ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING	CL - CENTER LINE
F.H. - FRAME HEIGHT	S.S. - STAINLESS STEEL
F.W. - FRAME WIDTH	H.S. - HEAT STRENGTHENED
LG. - LONG	SSG - STRUCTURAL SILICONE
STL. - STEEL	GLAZED
ALUM. - ALUMINUM	TEMP. - TEMPERED
MULL. - MULLION	O.C. - ON CENTER
HORIZ. - HORIZONTAL	SECTION NUMBER
W/ - WITH	
W/O - WITHOUT	
VERT. - VERTICAL	
G.B. - GLASS BITE	SHEET NUMBER

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 FURTHER 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.

FL#48030.1



MCY ENGINEERING, INC.
GLAZING CONSULTANTS

 12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305.588.5224
www.MCYEngineering.com mcy@mcyengineering.com

KA 4016 ALUMINUM FRENCH DOOR - L.M.I.

UNIK FENESTRATION

8.5 VIA DURAN TAMBO
GUAYAS, ECUADOR
ps://www.vetrikoe.com

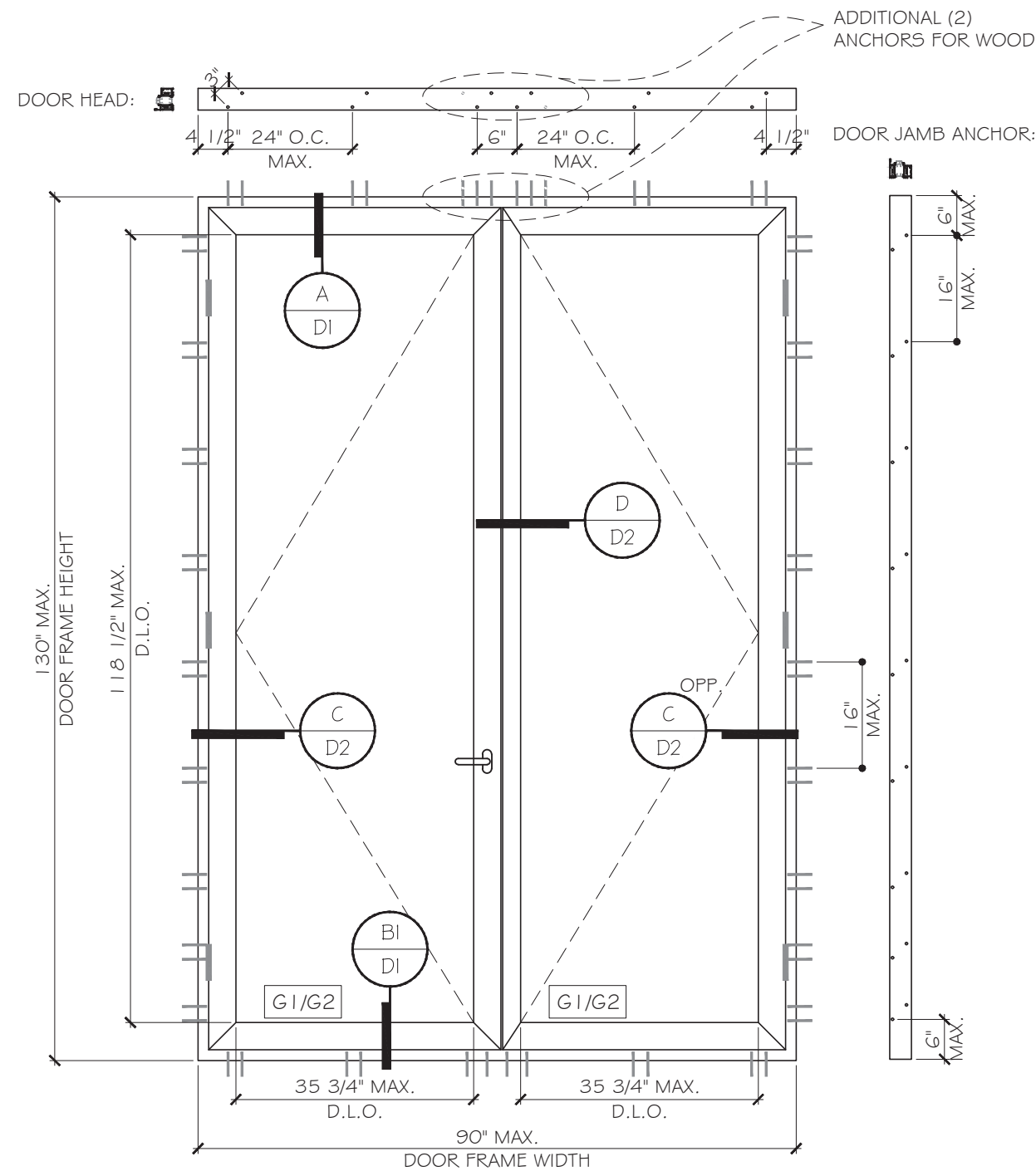
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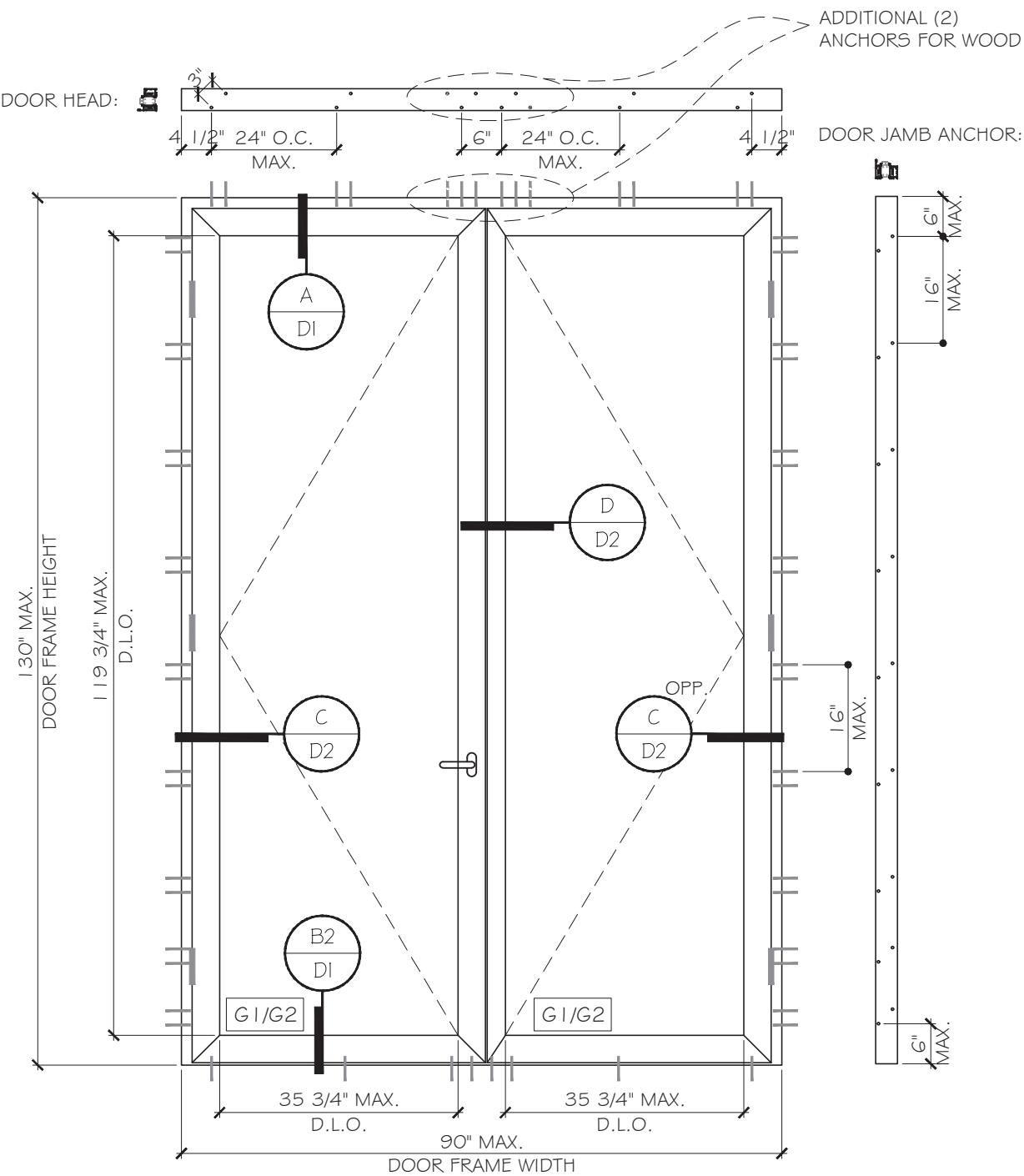
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Sheet No.
OF 17



TYPICAL EXTERIOR ELEVATION (XX)

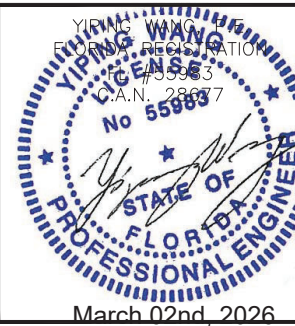
DESIGN LOADS FOR SIZES SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC
+70.0 PSF -70.0 PSF
APPROVED FOR WATER INFILTRATION



TYPICAL EXTERIOR ELEVATION (XX)

DESIGN LOADS FOR SIZES SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC
+70.0 PSF -70.0 PSF
NOT APPROVED FOR WATER INFILTRATION

FL#48030.1



KA 4016 ALUMINUM FRENCH DOOR - L.M.I.

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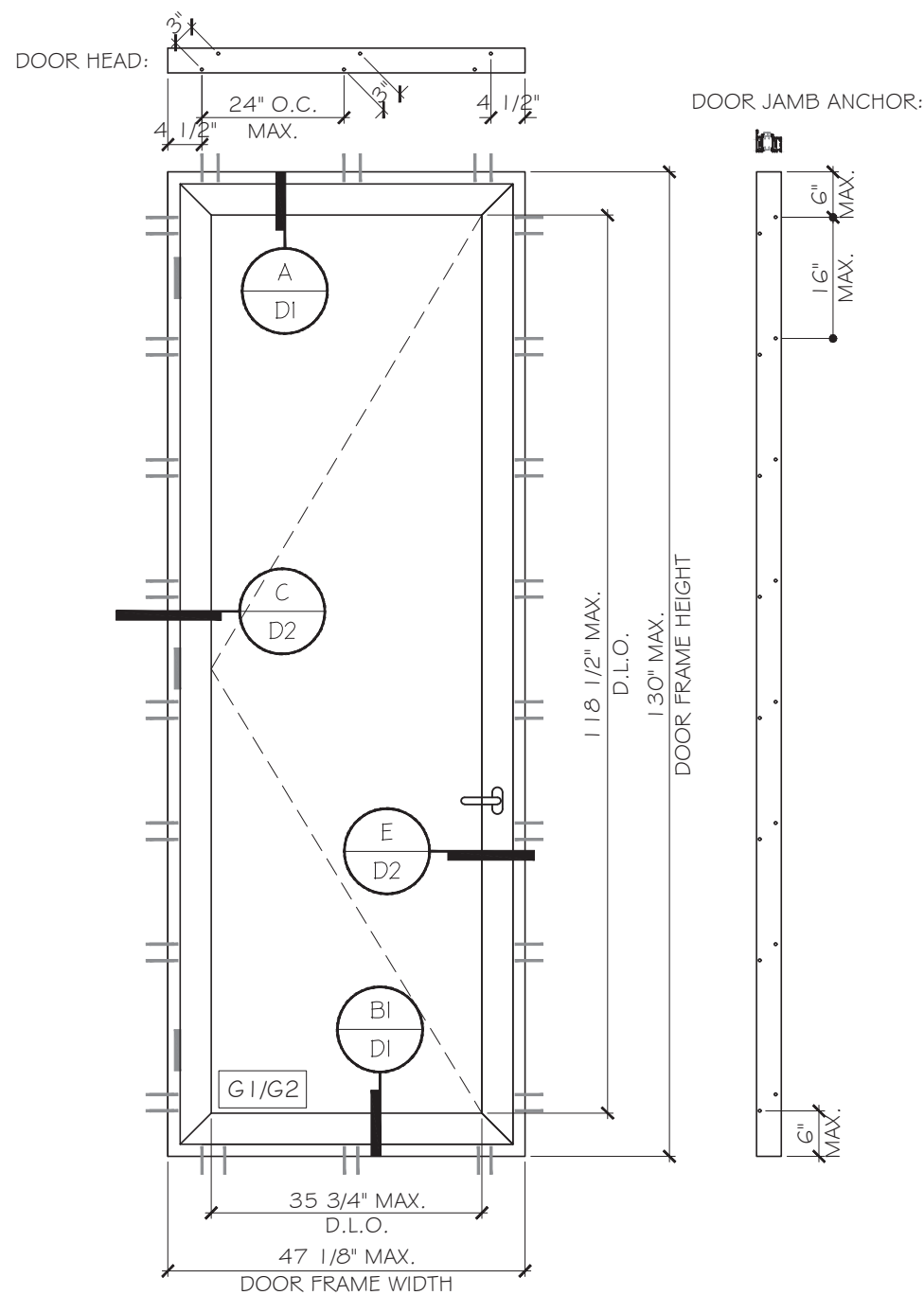
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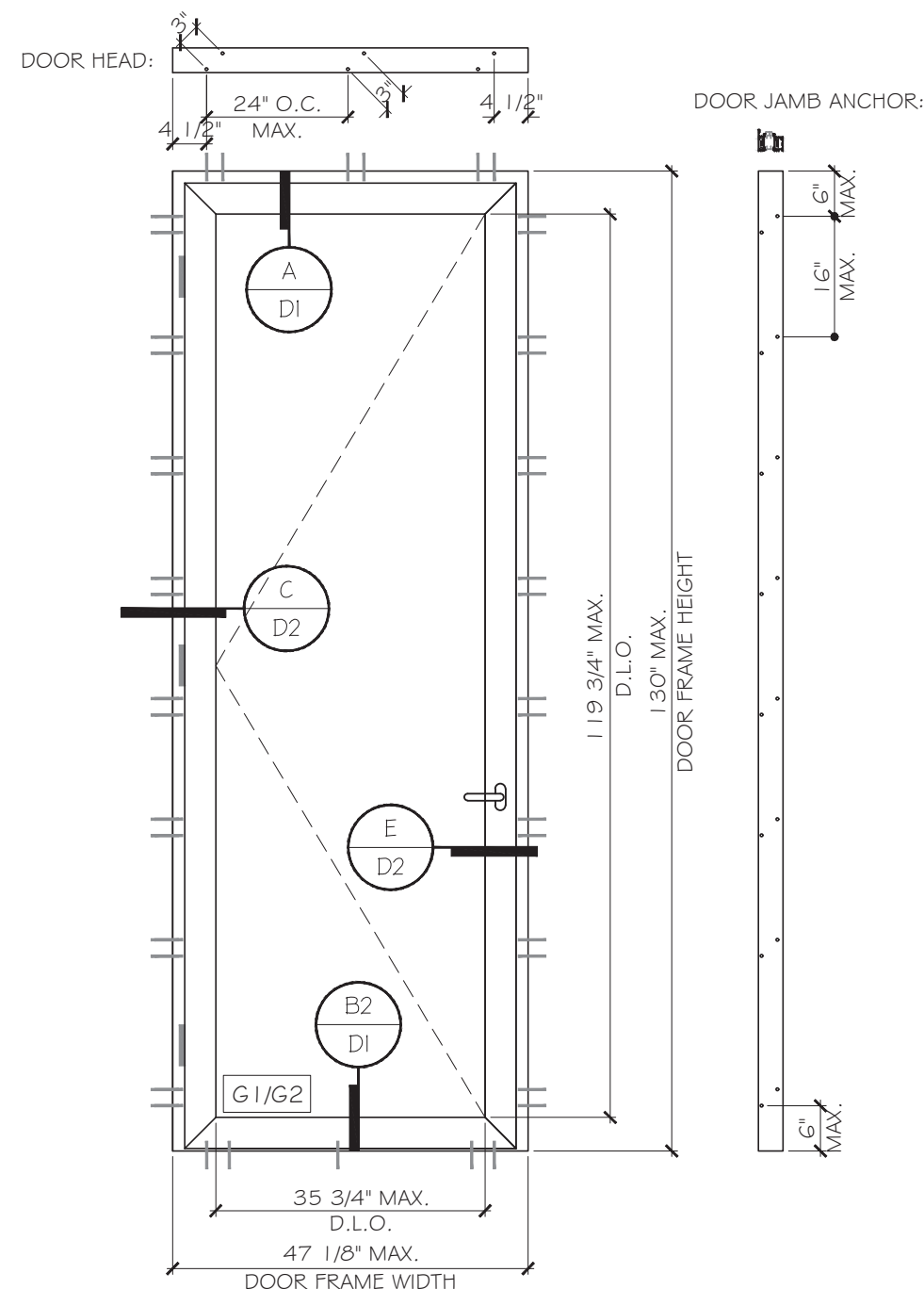
mcy@mcyengineering.com

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R1	02/25/2026	MCY	NEW APPLICATION
Drawn Date		Scale	
02.25.2026			
DRAWING NO.			
AD26-05A			
E1			
Sheet No.			
2 OF 17			



TYPICAL EXTERIOR ELEVATION (X)

DESIGN LOADS FOR SIZES SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC
+70.0 PSF - 70.0 PSF
APPROVED FOR WATER INFILTRATION



TYPICAL EXTERIOR ELEVATION (X)

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+70.0 PSF - 70.0 PSF
NOT APPROVED FOR WATER INFILTRATION

FL#48030.1

YIPING WANG
FLORIDA REGISTRATION
No 55983
C.A.N. 28677

STATE OF FLORIDA
PROFESSIONAL ENGINEER

March 02nd, 2026

KA 4016 ALUMINUM FRENCH DOOR - L.M.I.

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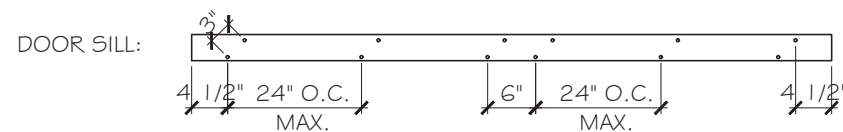
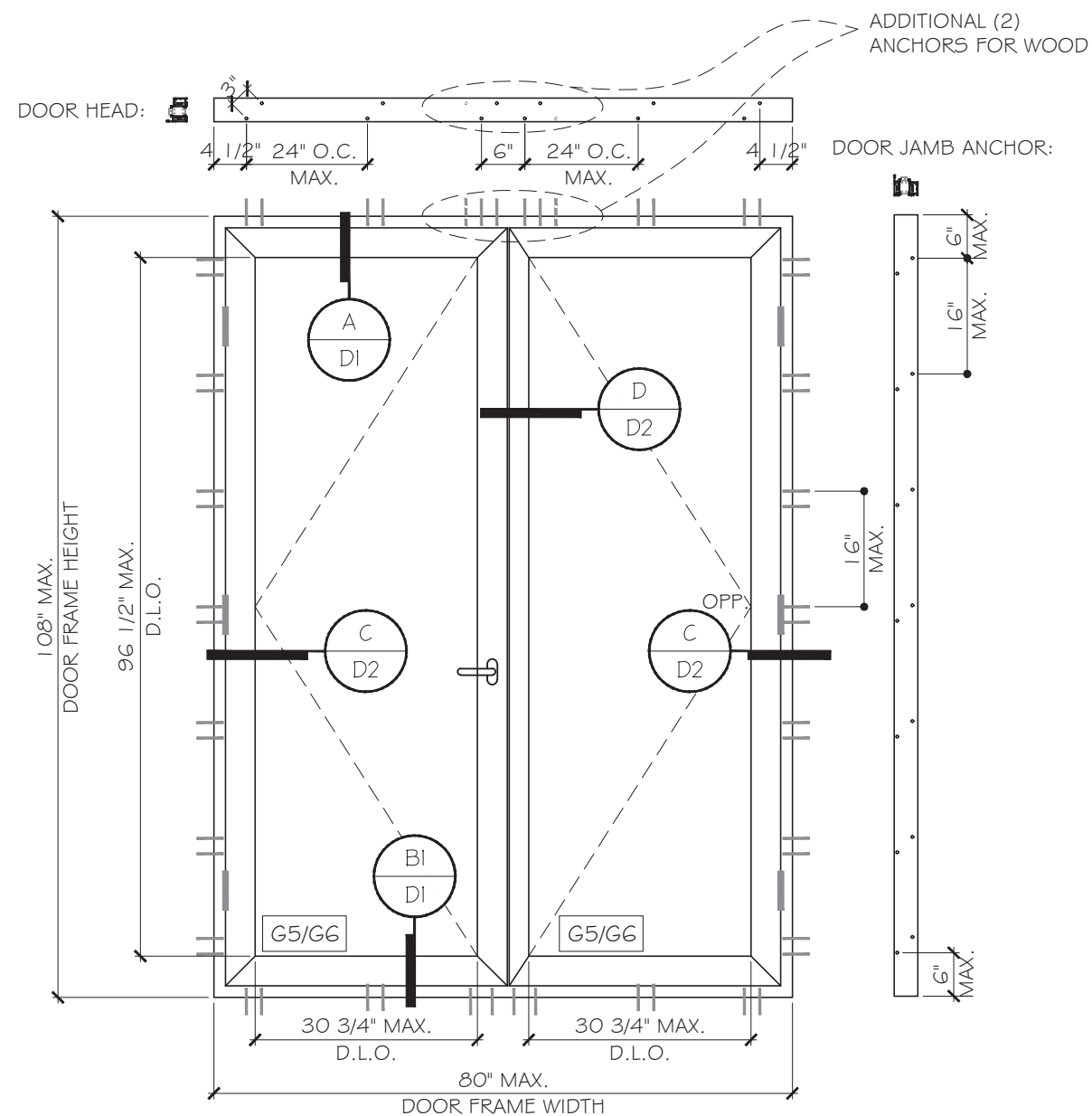
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Drawn Date: 02.25.2026

Scale:

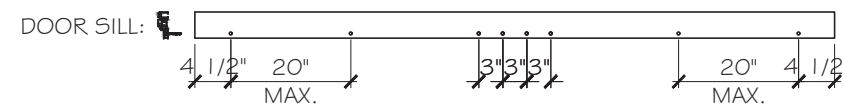
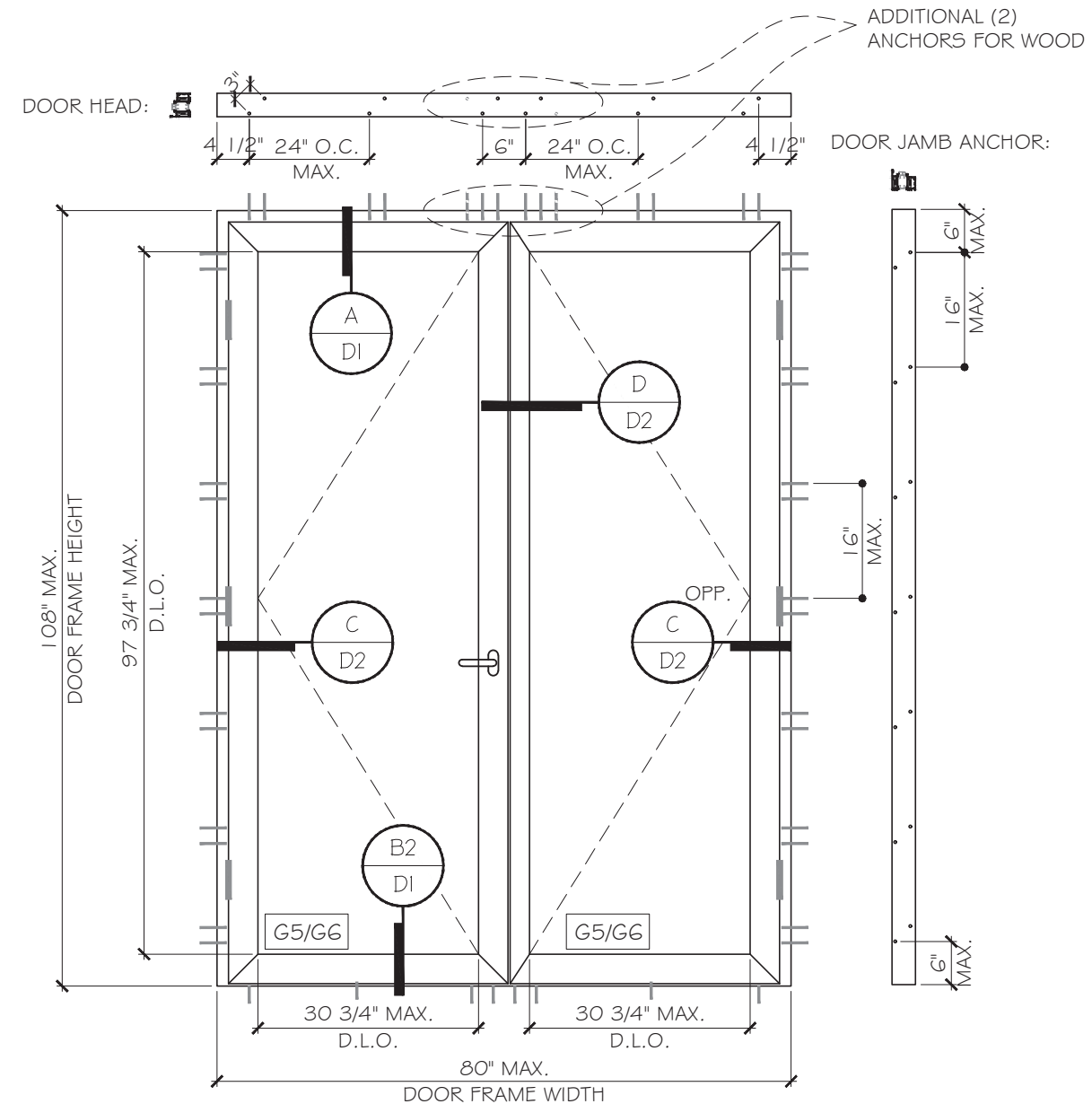
DRAWING NO. AD26-05A

Sheet No. 3 OF 17



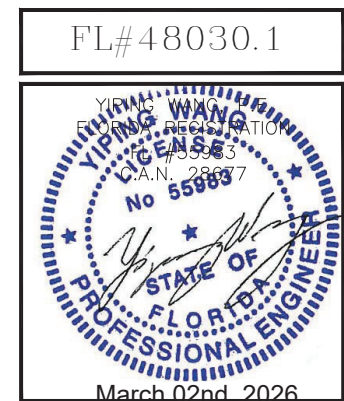
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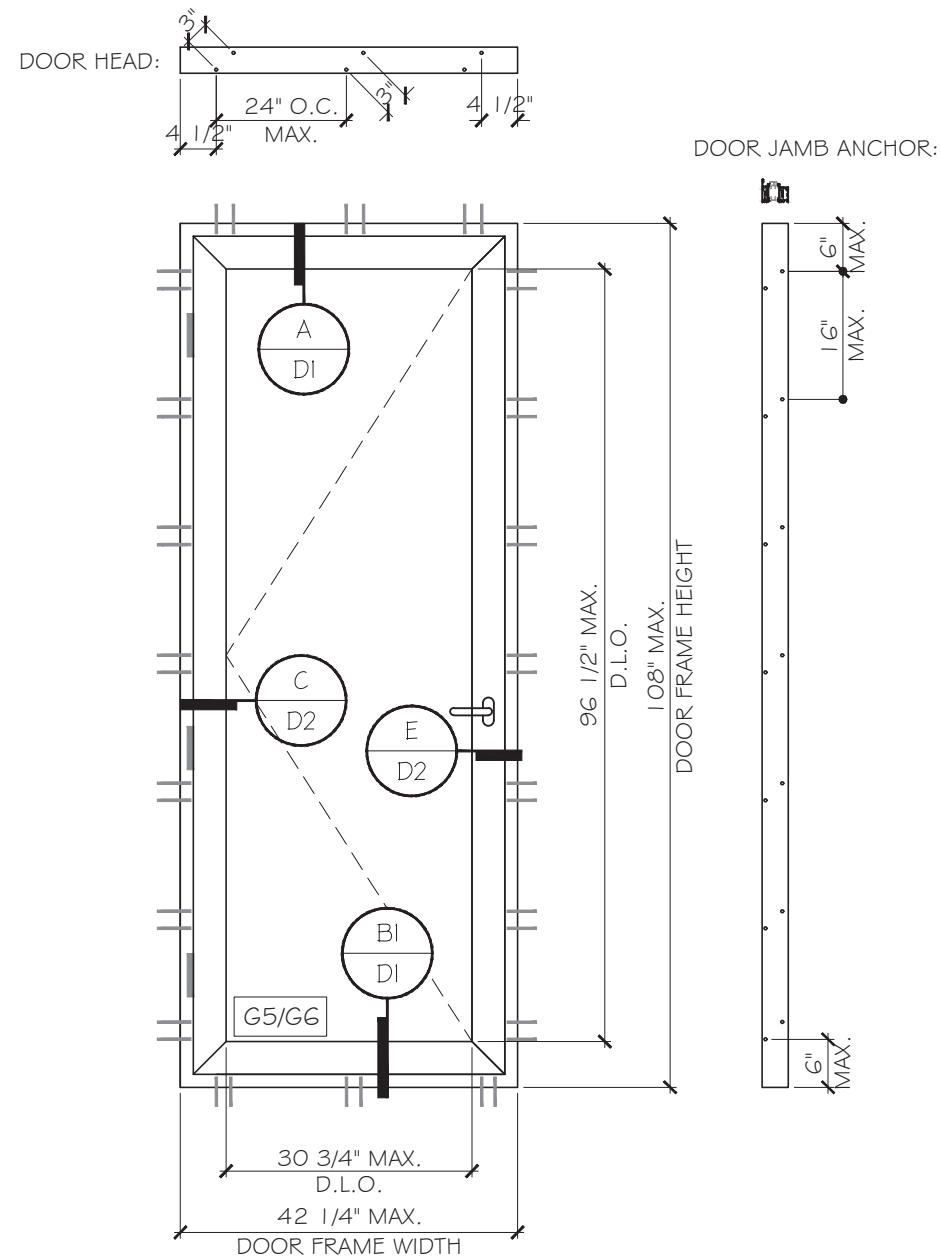
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+ 70.0 PSF - 70.0 PSF
APPROVED FOR WATER INFILTRATION



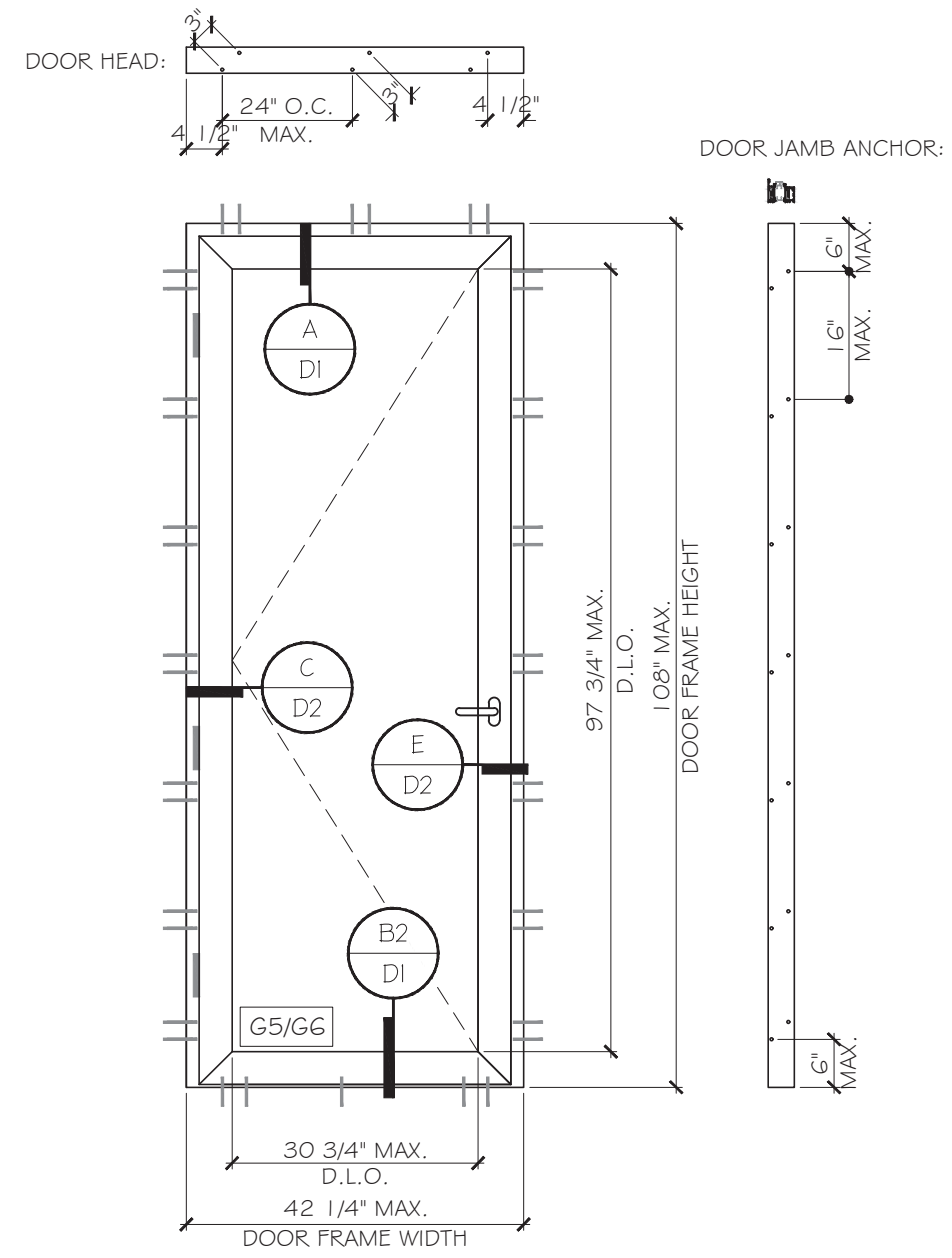
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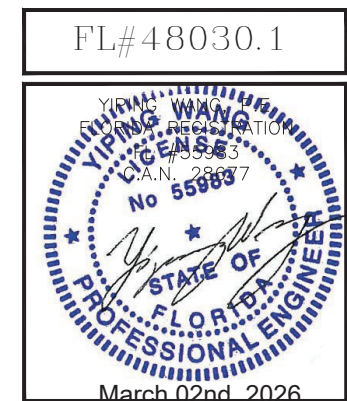
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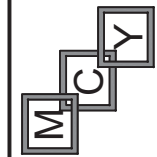
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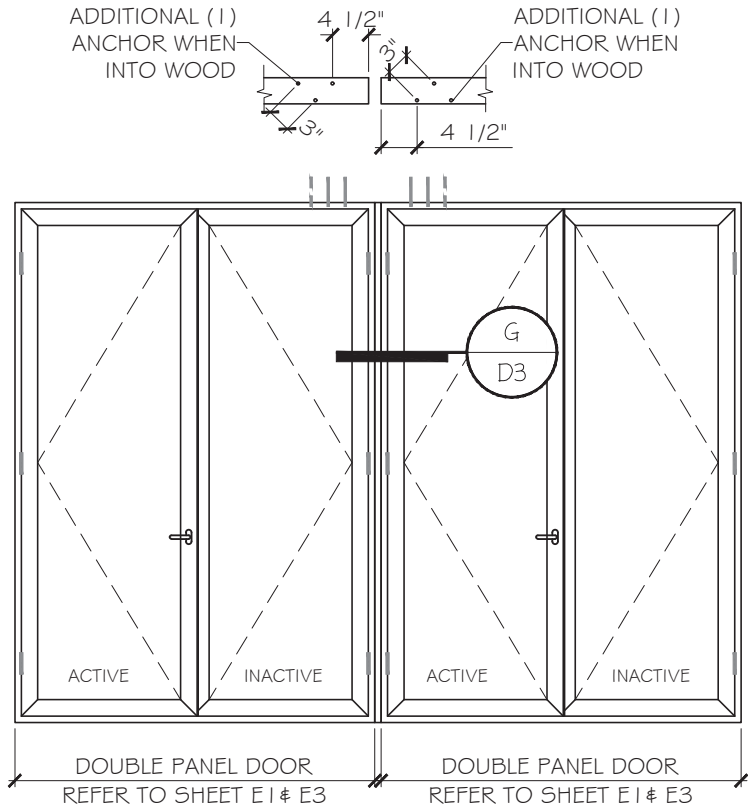
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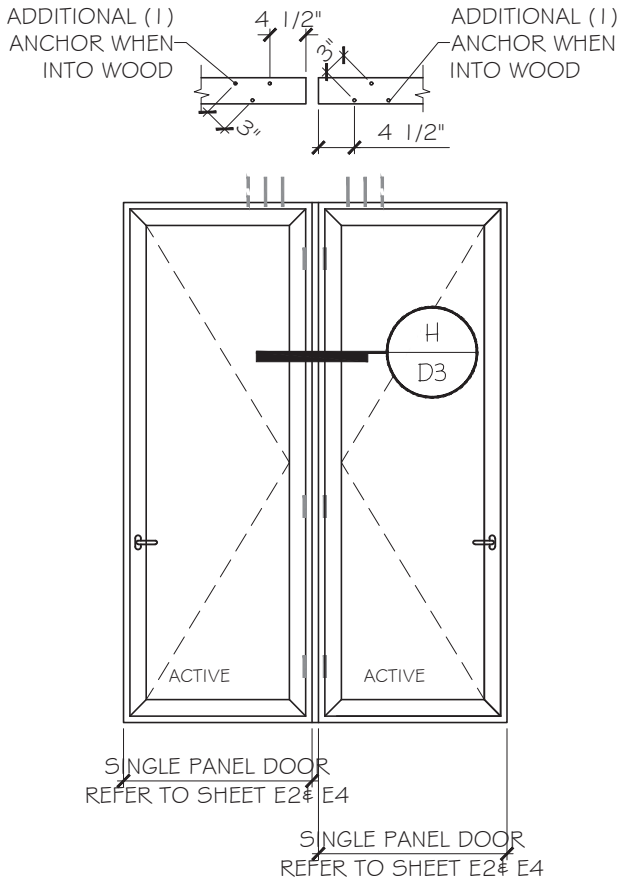
www.MCYEngineering.com mcy@mcysengineering.com

<https://www.vetrikoeec.com>

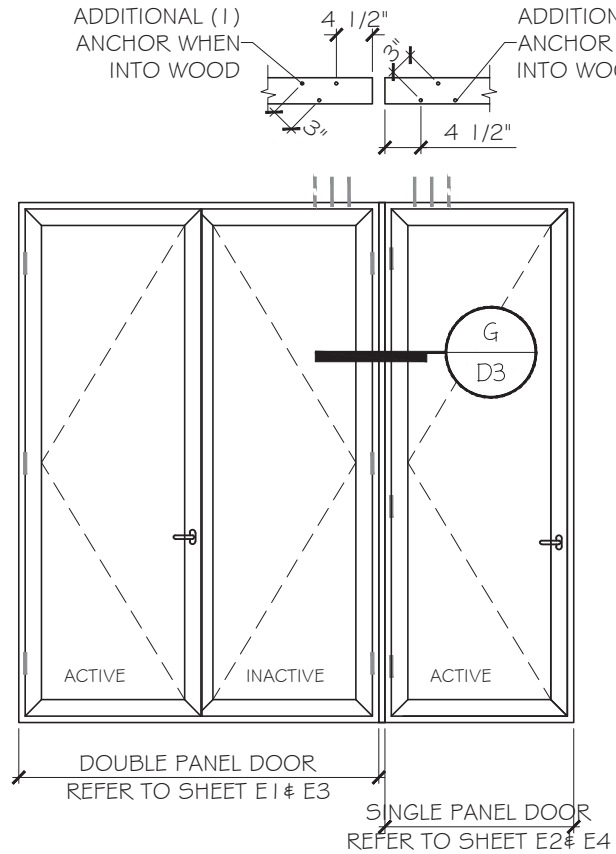
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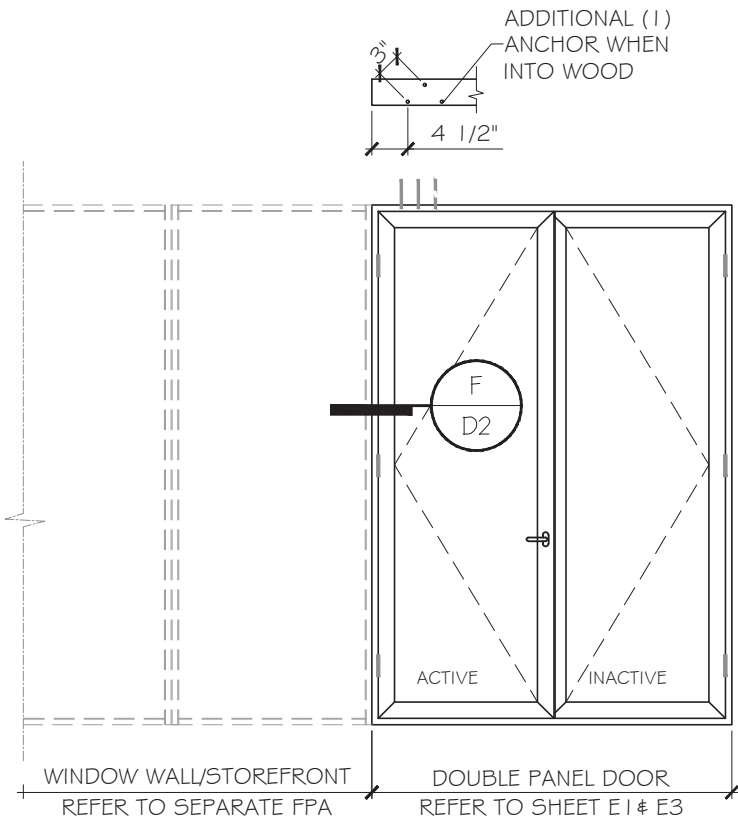
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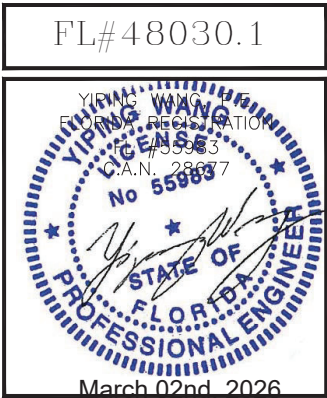
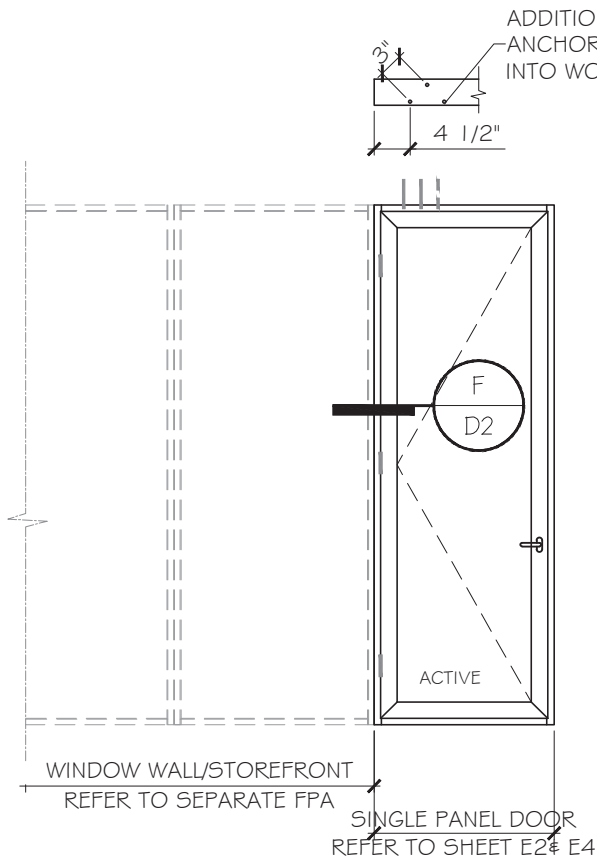
NOTE: ADDITIONAL ANCHOR AT TOP END OF MULLION WHEN ANCHOR INTO WOOD SUBSTRATE, OTHER ANCHOR LAYOUT REFER TO SHEET E1 TO E4.



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KA 4016 ALUMINUM FRENCH DOOR - L.M.I.

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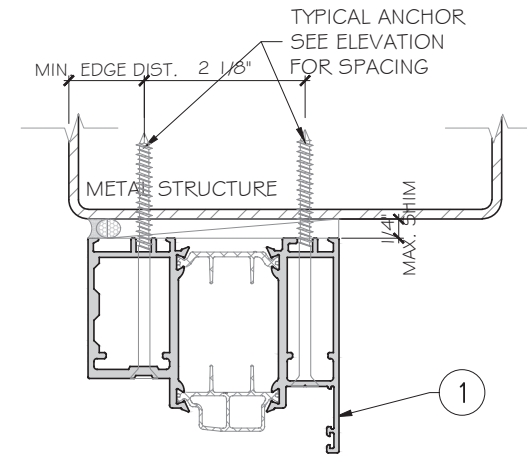
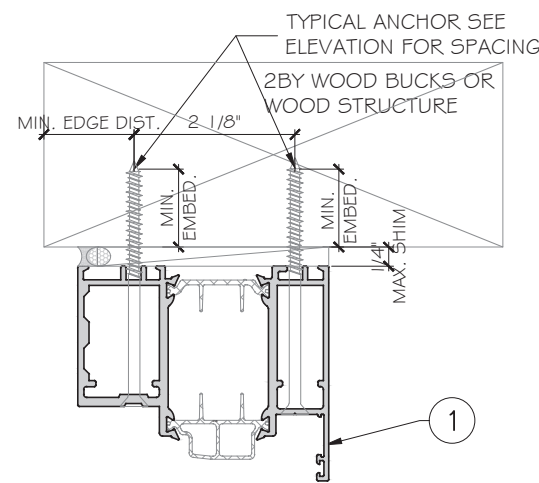
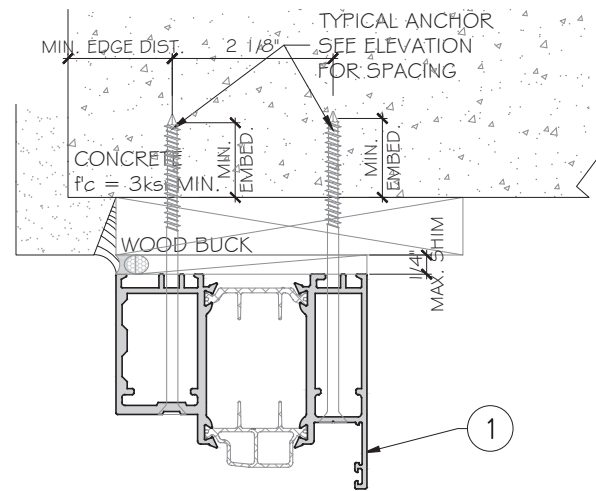
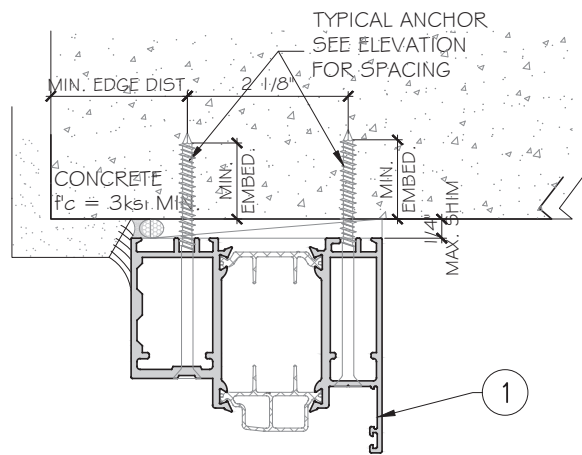
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R1	02/25/2026	MCY	NEW APPLICATION
Drawing No. AD26-05A			
Sheet No. 6 OF 17			



ANCHOR TYPES:

TYPE "A": 1/4" DIA. ULTRACON+ BY DEWALT ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$) INTO 2X WOOD BUCK OR WOOD STRUCTURE WITH 1 1/2" MIN. EMBED PENETRATION. (HEAD/ JAMB)

THRU 1X WOOD BUCK INTO CONCRETE WITH 1 3/4" EMBED (HEAD/ JAMB)

THRU 1X WOOD BUCK INTO HOLLOW BLOCK WITH 1 1/4" EMBED OR GROUT FILLED BLOCK WITH 1 3/4" EMBED. (JAMB ONLY)

TYPE "B": 1/4" DIA. ULTRACON+ BY DEWALT ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$) 1 3/4" MIN. EMBED INTO CONCRETE (HEAD/ JAMBS/ SILL)

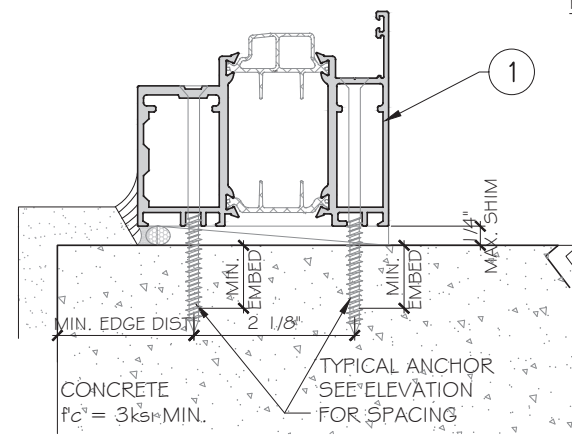
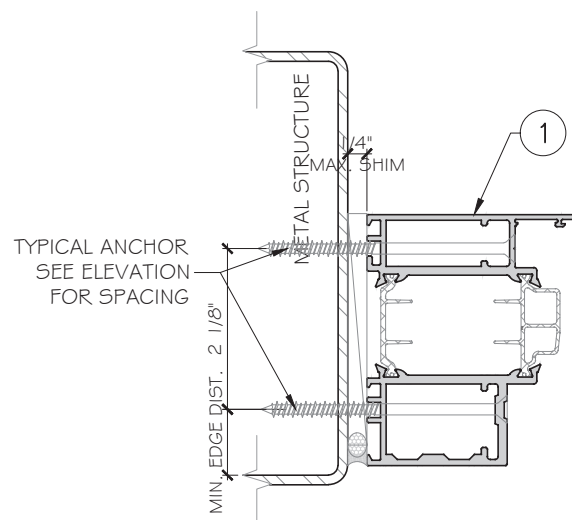
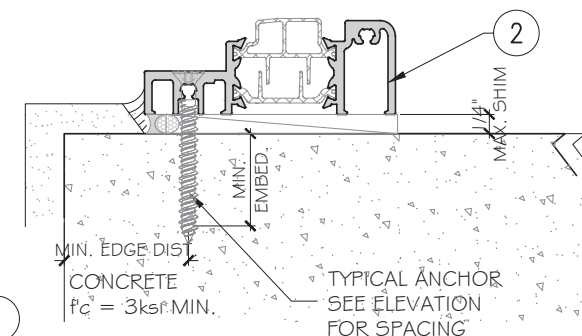
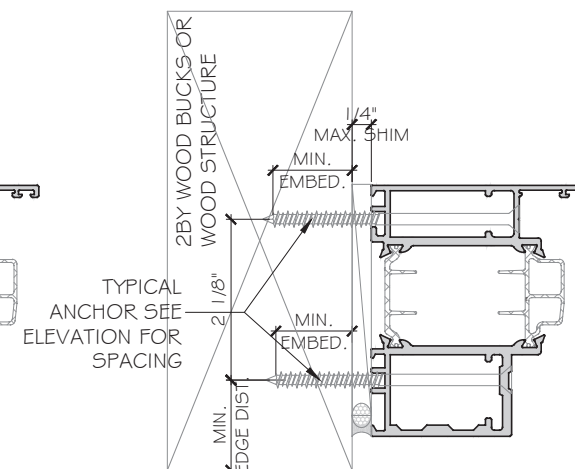
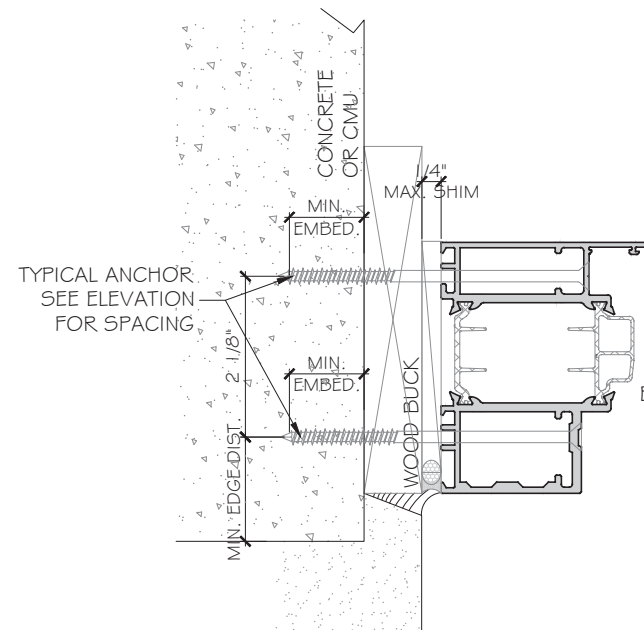
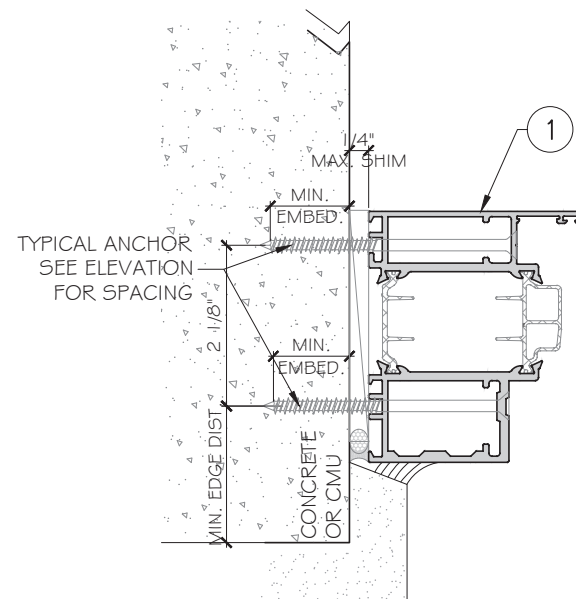
OR 1 1/4" EMBED INTO HOLLOW BLOCK (JAMB ONLY)
OR 1 3/4" EMBED INTO GROUT FILLED BLOCK (JAMB ONLY)

TYPE "C": 1/4" SMS OR TEKS (GRADE 5) ($F_u = 120 \text{ KSI}$, $F_y = 92 \text{ KSI}$) INTO FBC APPROVED MULLIONS OR METAL STRUCTURES. (HEAD/ JAMBS)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE.

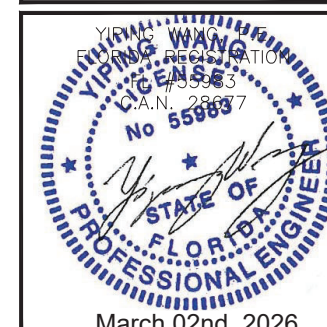
ANCHOR EDGED DISTANCE:
INTO CONCRETE & MASONRY = 2 1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL = 3/4"

CONCRETE $f_c = 3 \text{ KSI}$ MIN.
C-90 HOLLOW /FILLED BLOCK AT JAMB $f_m = 2000 \text{ PSI}$ MIN.
WOOD SG=0.55 MIN.
ALUMINUM: 1/8" THK. MIN. (6063-T5. MIN.)
STEEL: 1/8" THK. MIN. ASTM A653 GRADE 33 ($F_y = 33 \text{ ksi}$) MIN.
(STEEL IN CONTACT WITH ALUMINUM TO BE ISOLATED OR PAINTED.)

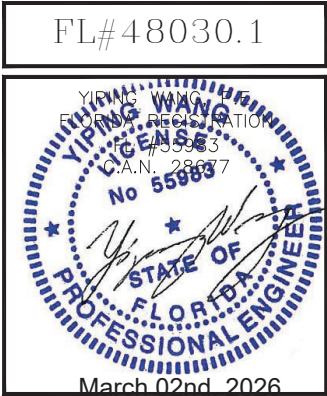
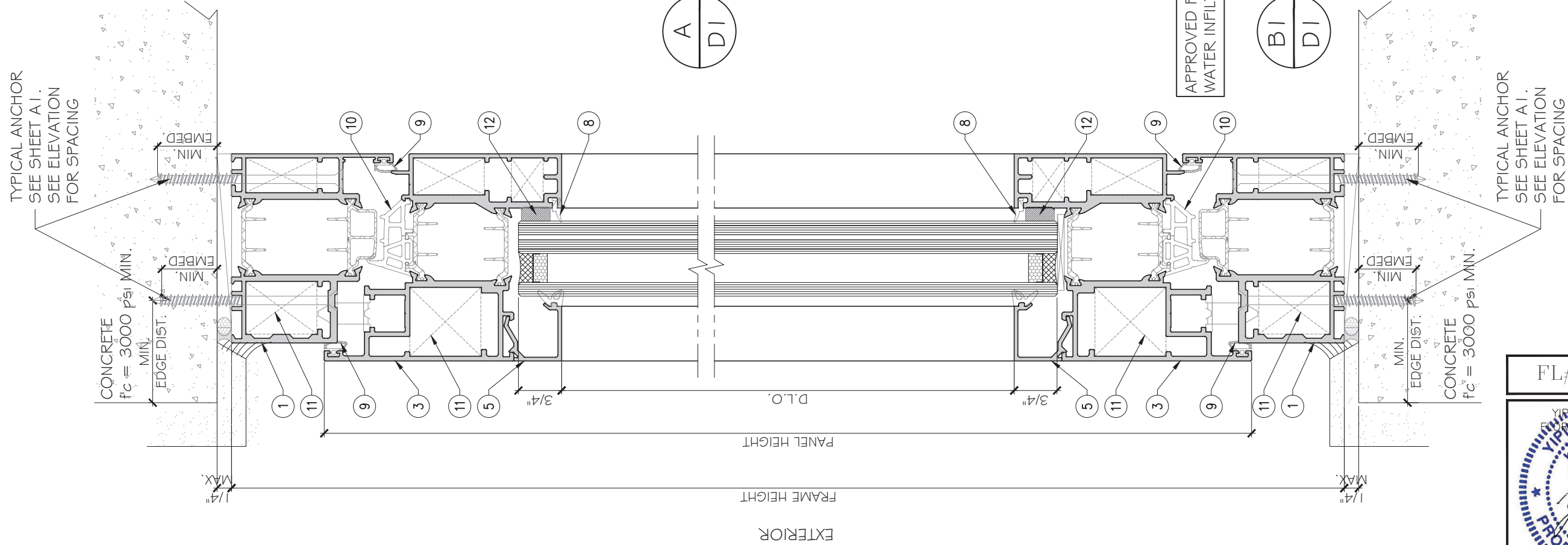
NOTE:
WOOD BUCKS/METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.



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Rev. No.	Date	Drawn By	Description
R1	02/25/2026	MCY	NEW APPLICATION
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DRAWING NO. AD26-05A			
A1			
Sheet No. 7 OF 17			



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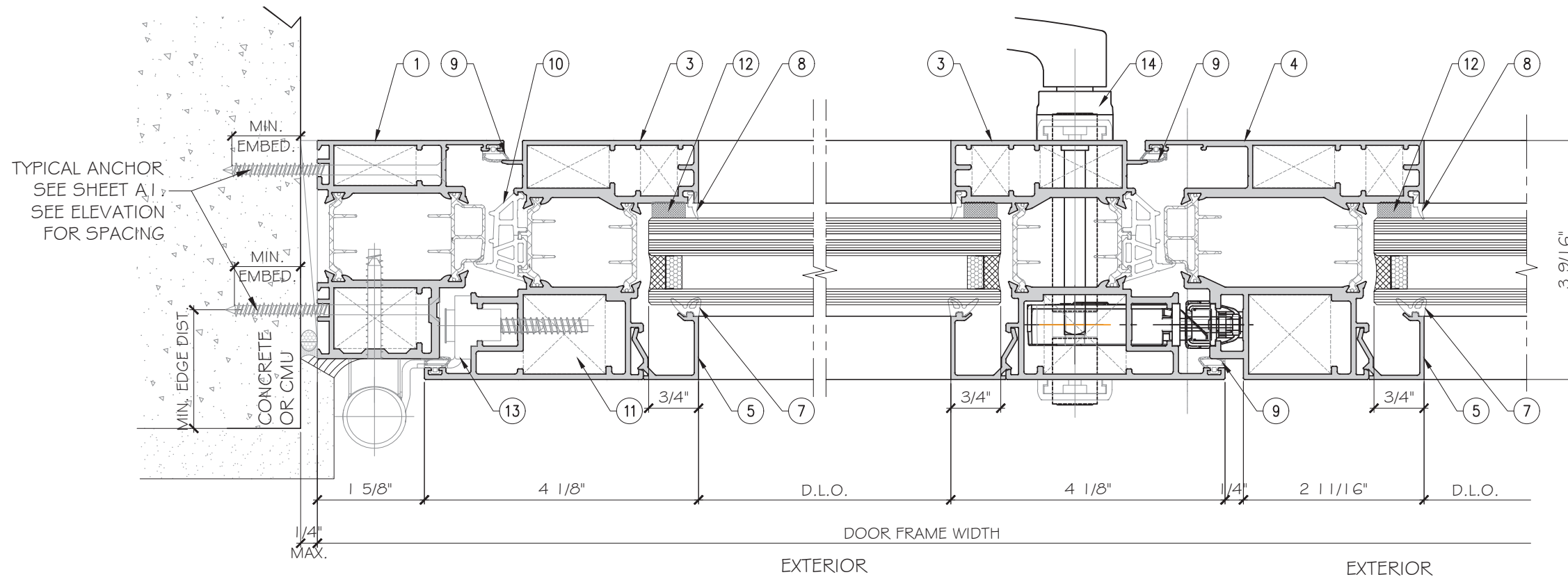
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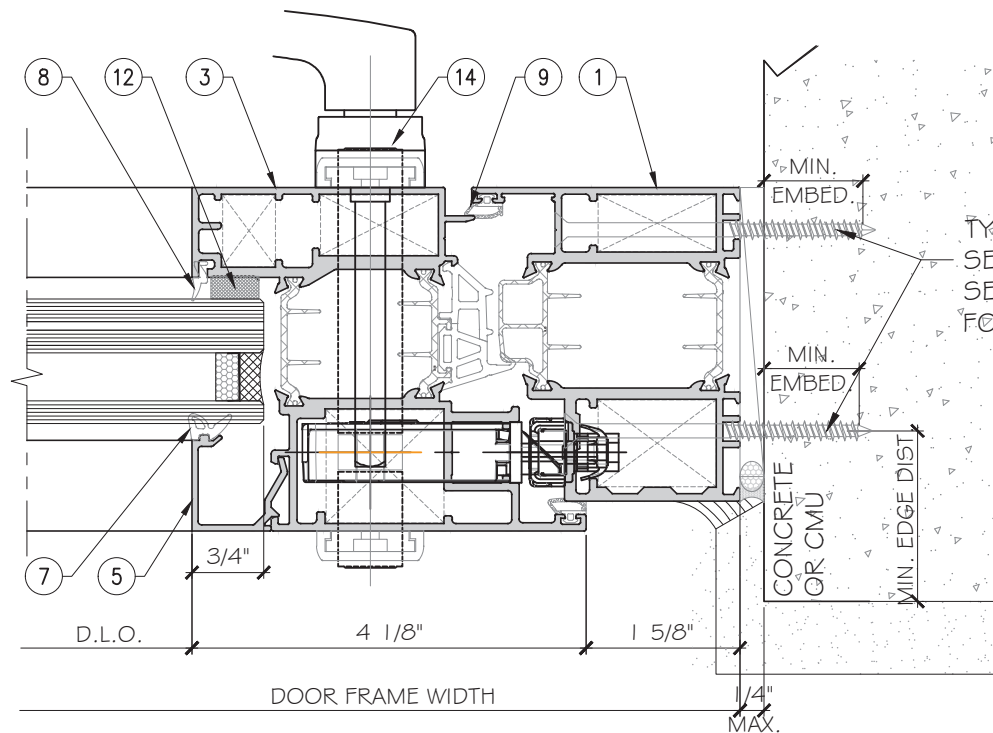
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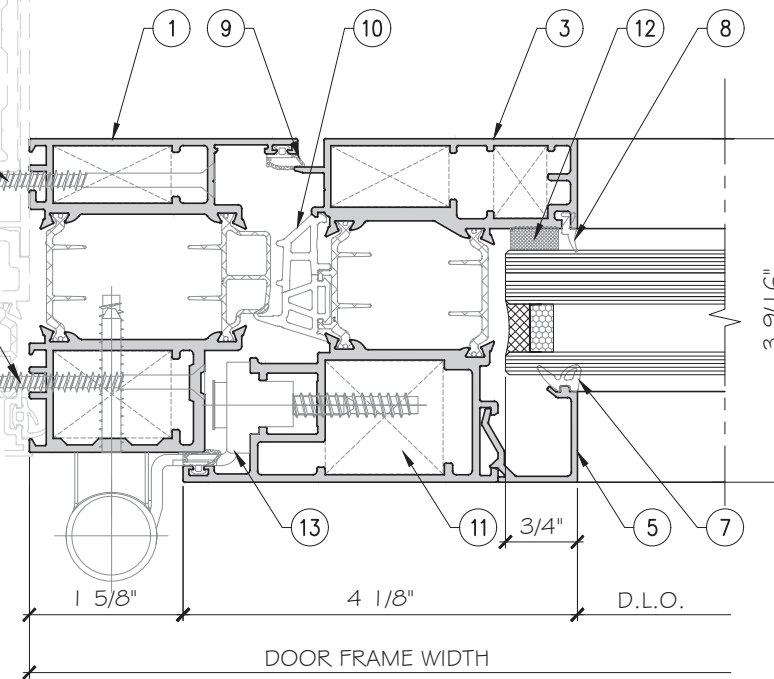


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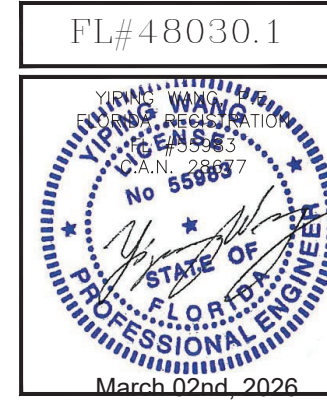
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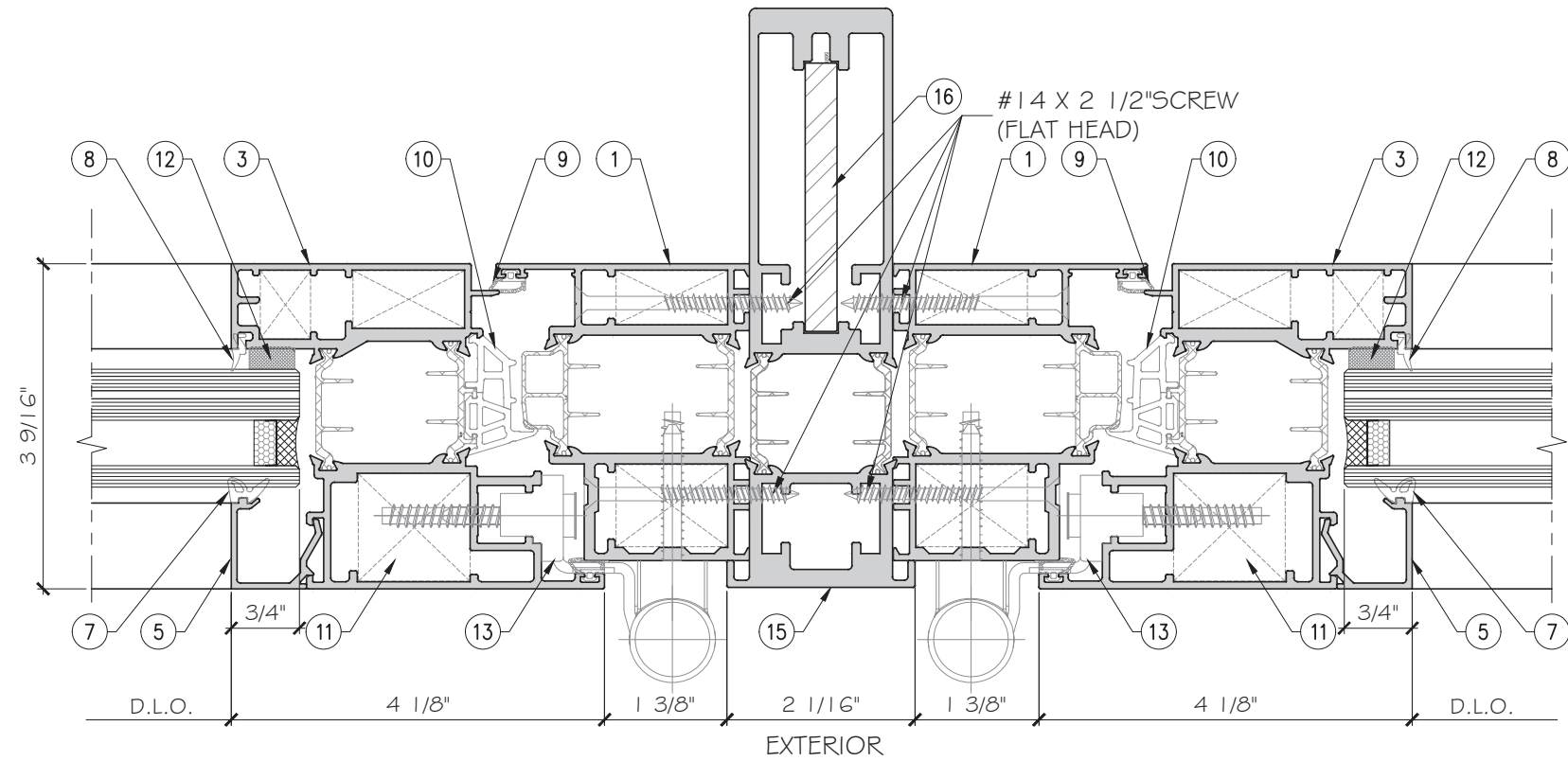
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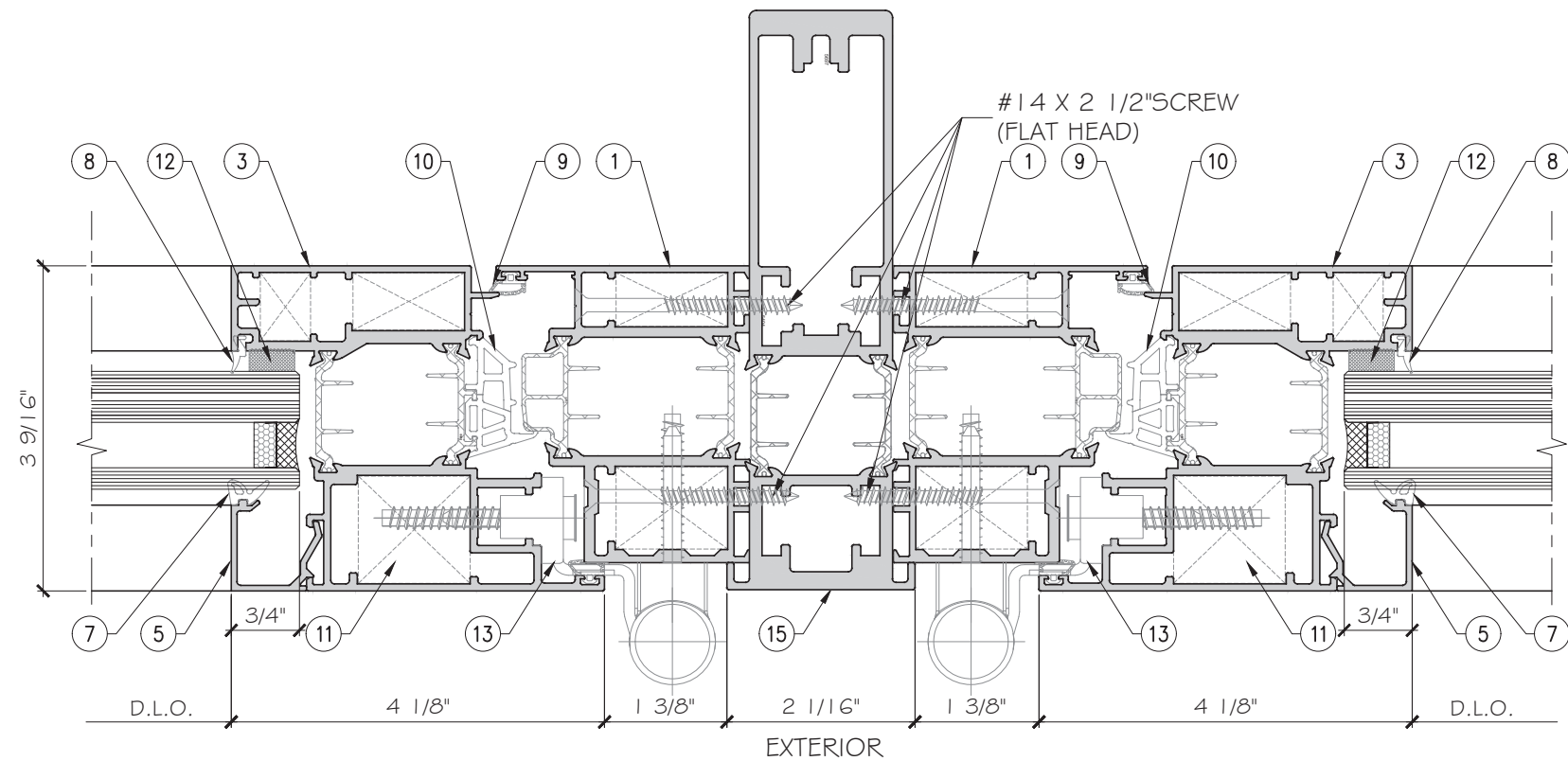
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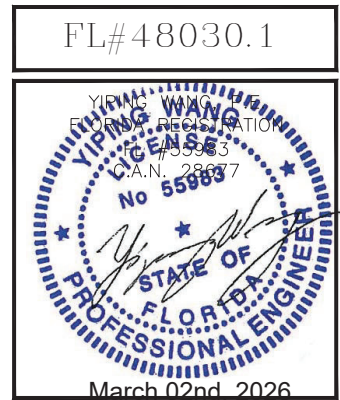
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9 OF 17



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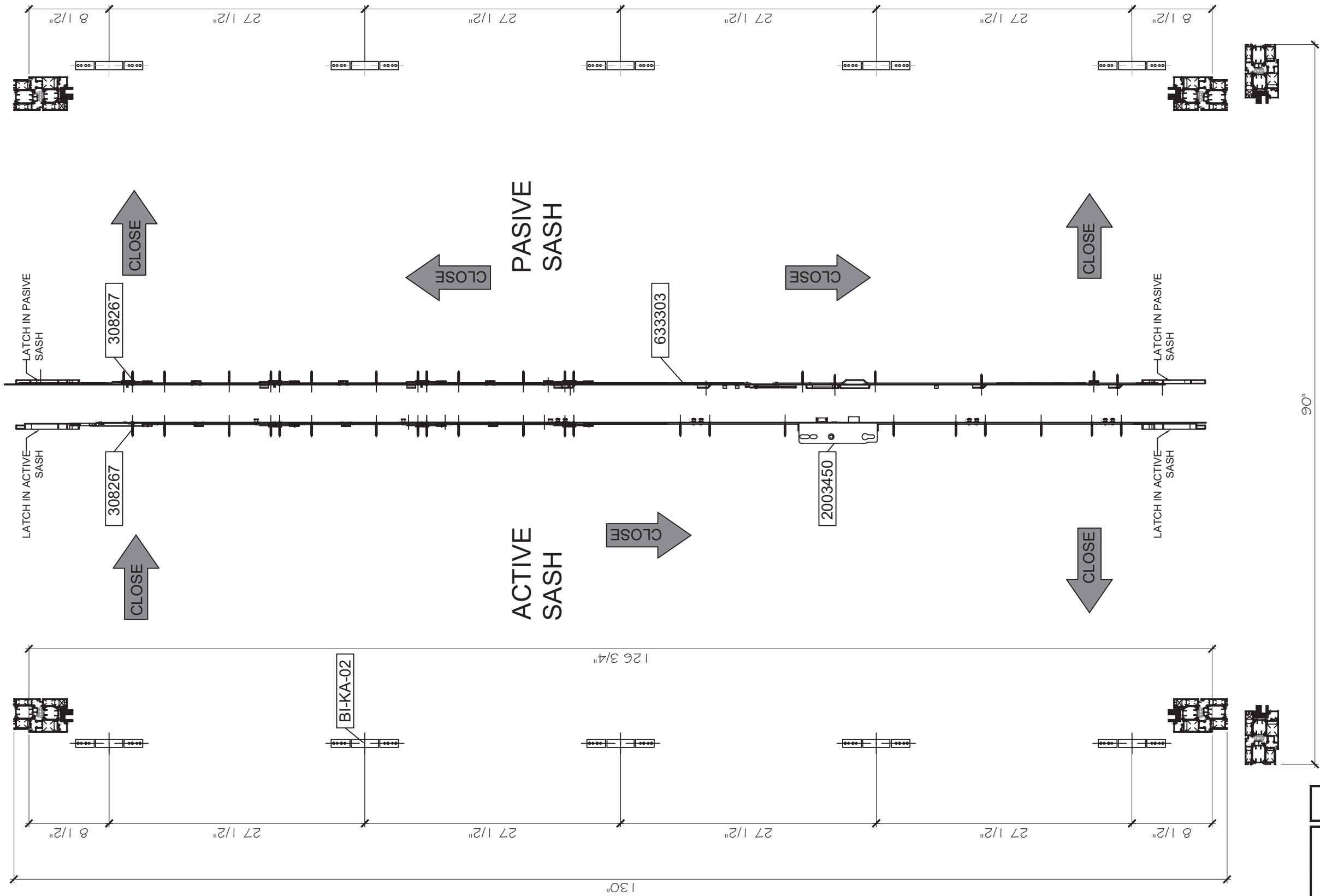
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R1	02/25/2026	MCY	NEW APPLICATION
Drawn Date: 02/25/2026			
Scale			
Drawing No. AD26-05A			
Sheet No. 10 OF 17			



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DRAWING NO.	
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HWR-1	
Sheet No.	
11 OF 17	

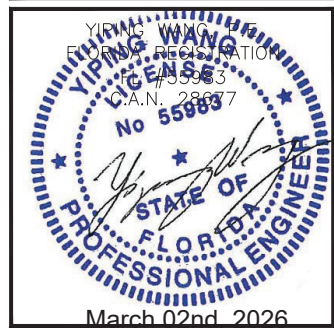
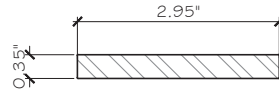
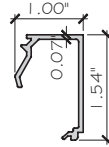
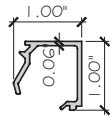
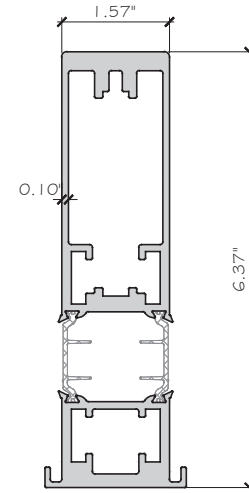
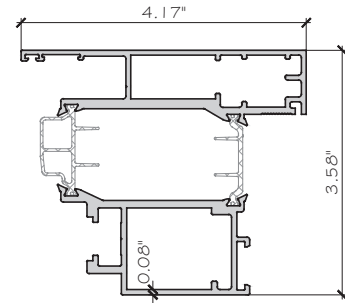
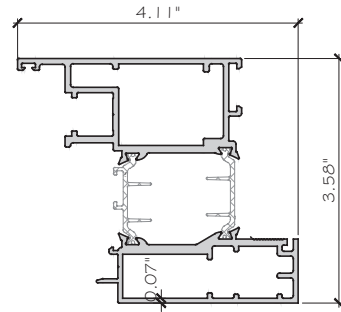
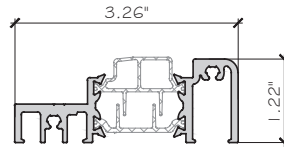
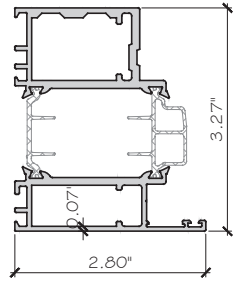


DOUBLE PANEL DOOR HARDWARE

FL#48030.1

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
FLORIDA
LICENSE NO. 55983
March 02nd, 2026

KA 4016 ALUMINUM FRENCH DOOR - L.M.I.		MCY ENGINEERING, INC. GLAZING CONSULTANTS	
UNIK FENESTRATION		12781 MIRAMAR PARKWAY #301 MIRAMAR, FL 33027 P: 305.588.5224	
KM 8.5 VIA DURAN TAMBO GUAYAS, ECUADOR		www.MCYEngineering.com mcy@mcyengineering.com	
https://www.vetrikoecc.com			
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DRAWING NO. AD26-05A			
Sheet No. 13 OF 17			
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AD26-05A

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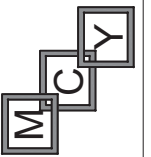
Sheet No.
14 OF 17

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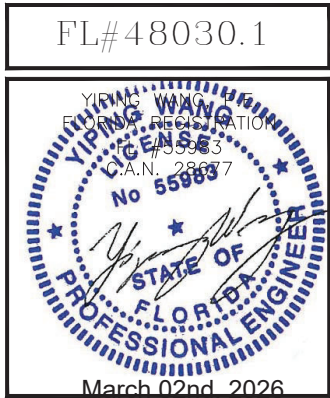
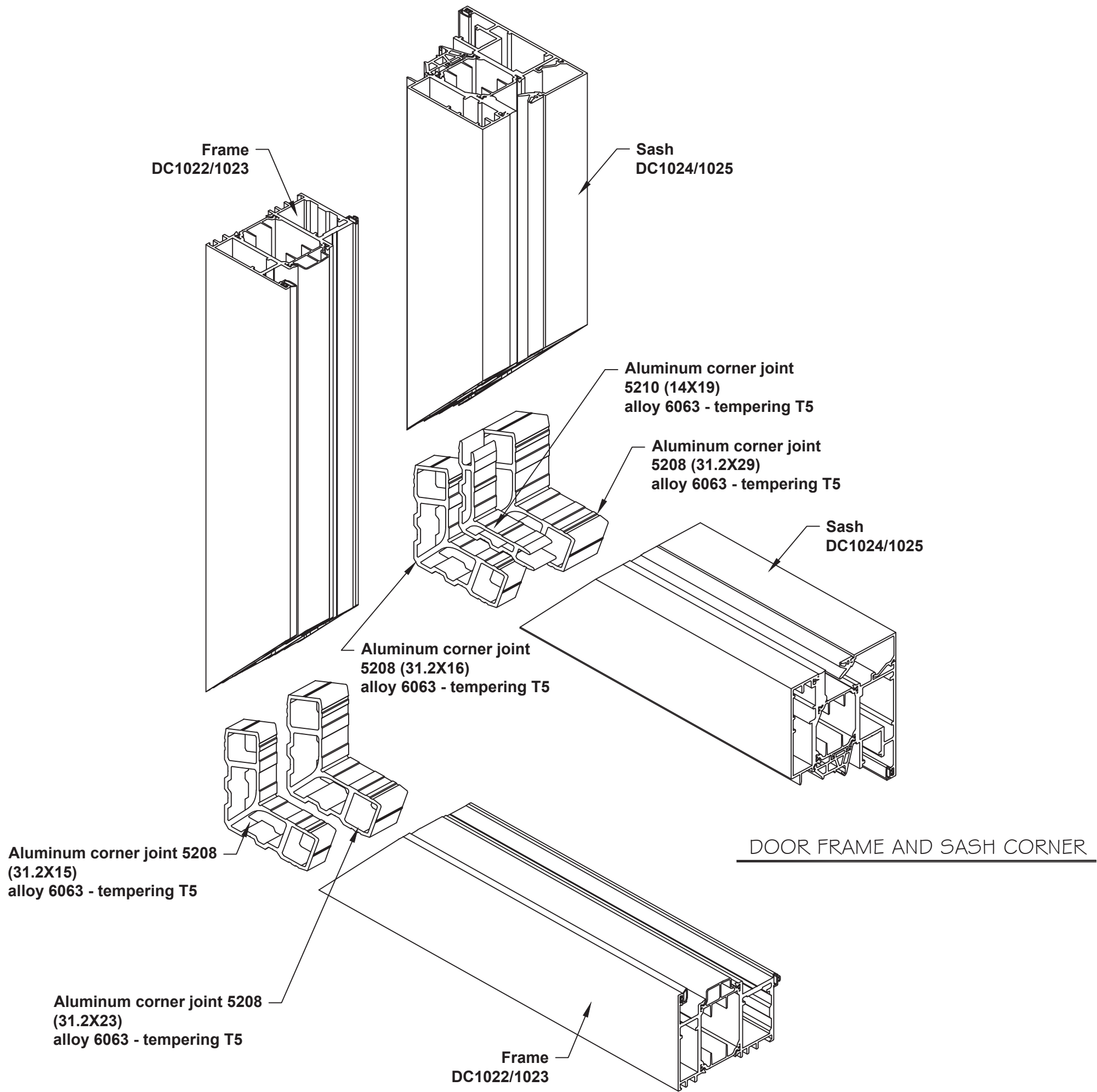
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BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	DC-1022/1023	DOOR HEAD/JAMB/SILL	ALUM. 6063-T6	FISA
2	DC-1082/1083	THRESHOLD	ALUM. 6063-T6	FISA
3	DC-1024/1025	DOOR SASH	ALUM. 6063-T6	FISA
4	DC-1026/1027	INVERTER SASH	ALUM. 6063-T5	FISA
5	FI-6255	GLASS COVER	ALUM. 6063-T5	FISA
6	FI-5895	GLASS COVER	ALUM. 6063-T5	FISA
7	AC-E-022	EXTERIOR GASKET	EPDM	PRICAL
8	AC-E-KA-01	GLASS SPACER FOR STRUCTURAL SILICONE	PLASTIC	PRICAL
9	AC-E-019	DOOR EXTERIOR GASKET	EPDM	PRICAL
10	AC-E-030	CENTRAL GASKET	EPDM	PRICAL
11	FI-5210,5208	ALUMINUM CORNER JOINT	ALUM. ALLOY	FISA
12	SG-20/SG-500/GE 2000 /DOWSIL 983/DOWSIL 995	STRUCTURAL SILICONE	SILICONE	SIKA
13	BI-KA-02	DOOR HINGE	STAINLESS STEEL	ROTO
14	MA-GO	DOOR HANDLE	STAINLESS STEEL	ROTO
15	DC-1010/1011	MULLION	ALUM. 6063-T6	FISA
16	R3-PL2	0.354" X 2.953" REINFORCEMENT PLATE(STEEL)	A36	EXTERNAL
17	260272	ANGLE OF RETURN	STAINLESS STEEL	ROTO
18	308267	EXTENSION 200-400-600 mm	STAINLESS STEEL	ROTO
19	2003450	TIE BAR WITH LOCK	STAINLESS STEEL	ROTO
20	337710	EXTENSION 400mm WITH BOLTS	STAINLESS STEEL	ROTO
21	451009	LOK FOR DOOR	STAINLESS STEEL	ROTO
22	633303	TIE BAR - PASIVE SASH	STAINLESS STEEL	ROTO
23	377263	400mm EXTENSION FOR ACTIVE SASH INVERTER	STAINLESS STEEL	ROTO
24	373968	400mm EXTENSION FOR ACTIVE AND/OR PASIVE SASH	STAINLESS STEEL	ROTO

Three overlapping squares, each containing a letter. The bottom-left square is white with a black border and contains the letter 'M'. The middle square is light blue with a black border and contains the letter 'C'. The top-right square is light yellow with a black border and contains the letter 'Y'. The squares overlap such that the 'M' square is partially behind the 'C' square, and the 'C' square is partially behind the 'Y' square.

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DRAWING NO. AD26-05A			
ISO-1			
Sheet No. 16 OF 17			

