

E.S. WINDOWS, INC. ES-PSD5030T PIVOT DOOR - L.M.I.

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOORS RATED FOR LARGE MISSILE IMPACT. LMI SYSTEM TO BE USED FOR INSTALLATIONS UP TO 30 FT OF GRADE. FOR ABOVE 30 FT OF GRADE, SMI TO BE USED. IMPACT SHUTTERS ARE NOT REQUIRED.
- DOORS NOT APPROVED FOR 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 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) 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 7-16/ 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.

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16/ ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET E1 FOR TYPICAL DOOR ELEVATION. SEE SHEET G1 FOR GLASS OPTION.
- STEP 3: SEE SHEET A1 FOR ANCHOR OPTIONS. SEE SHEET E1 FOR NUMBER OF ANCHORS REQUIRED.
- 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.

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

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 ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA APPROVAL:
FL # 41358.1

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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MIAMI, FL 33027 P: 305 271 0117
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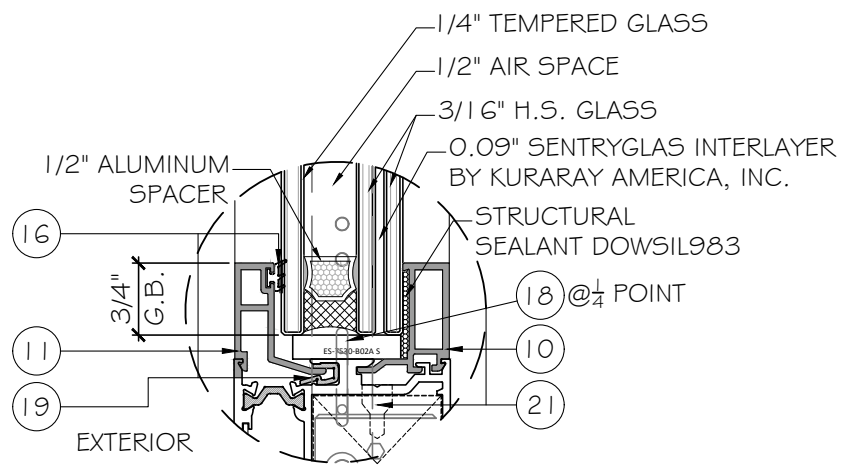
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R2	09.18.2023	James	UPDATE TO FBC 2023

Drawn Date: 09.18.2023 Drawn By: James

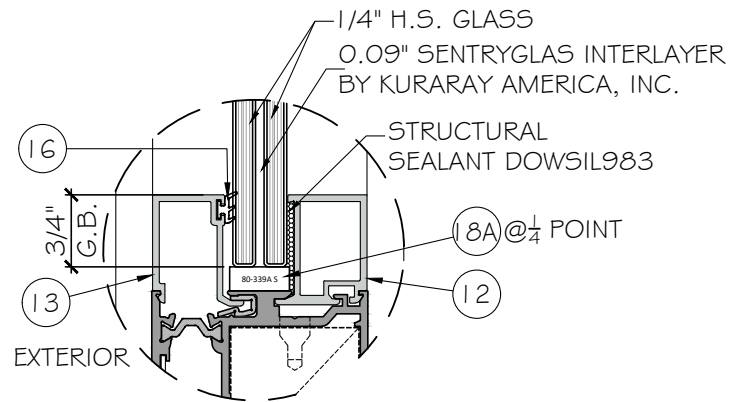
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AD22-07

COVER

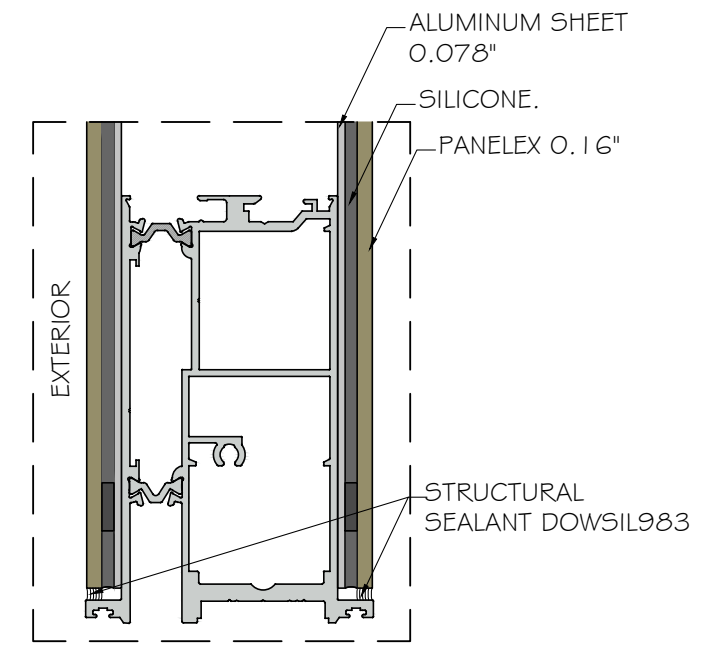
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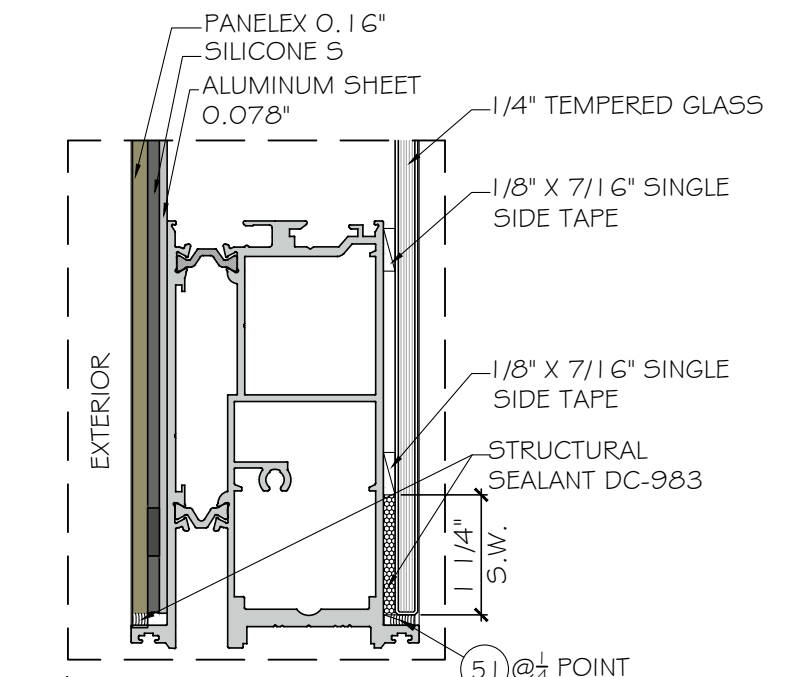
G1 GLASS TYPE 'G1'
1 3/16" NOMINAL OVERALL



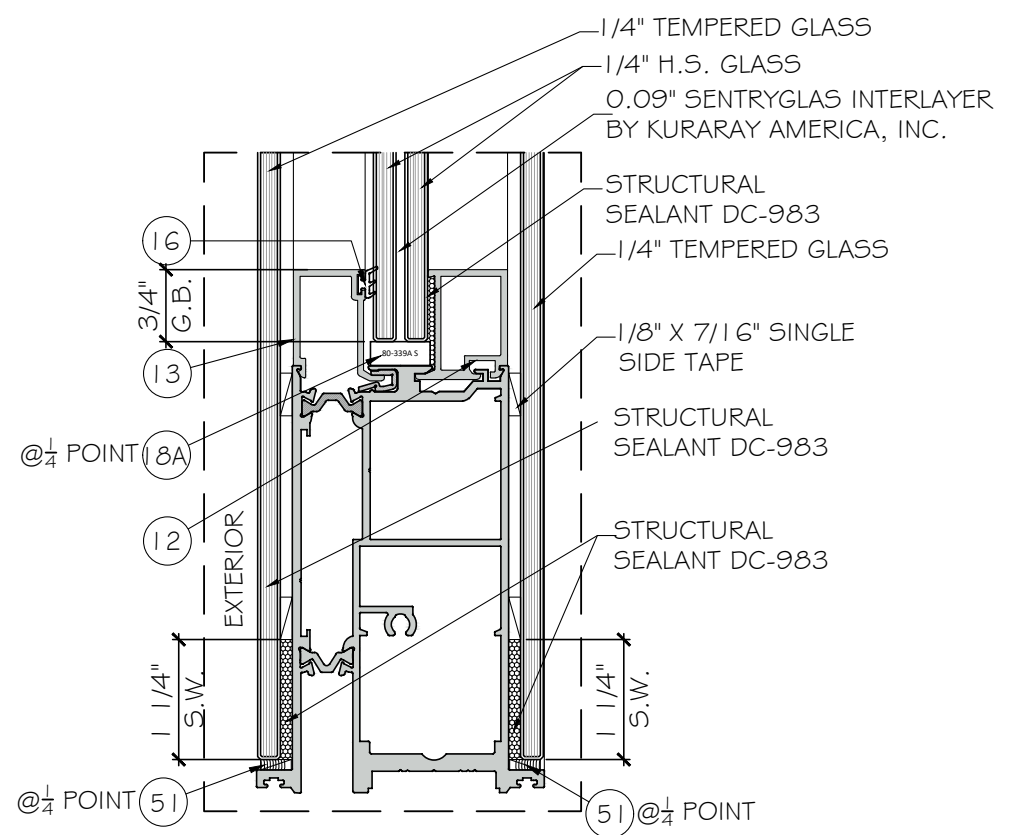
G2 GLASS TYPE 'G2'
9/16" NOMINAL OVERALL



GP PANELEX



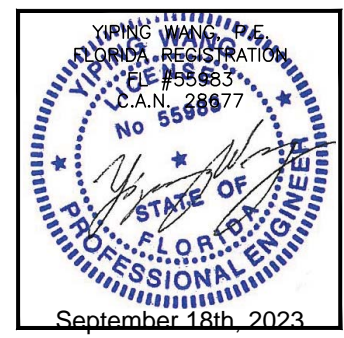
G3 PANEL TYPE 'G3'



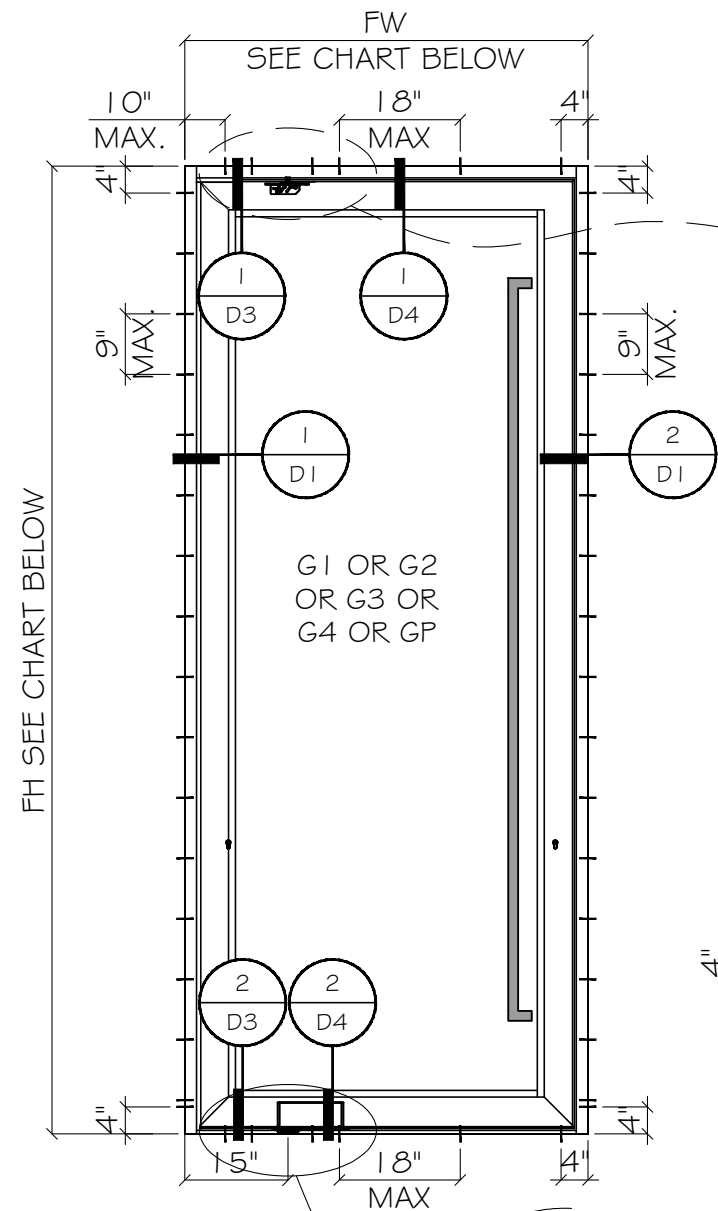
G4 GLASS TYPE 'G4'

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

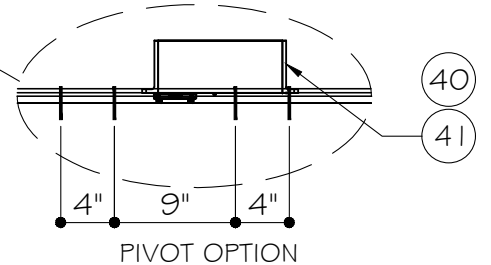
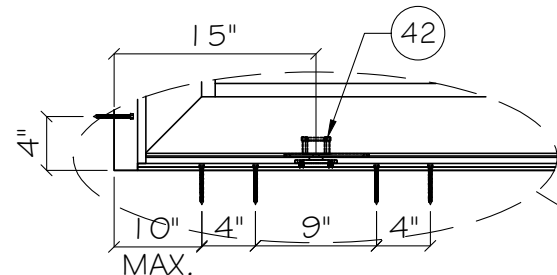
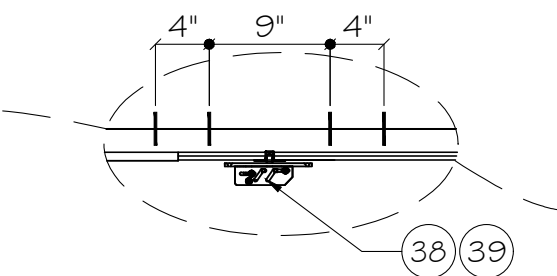
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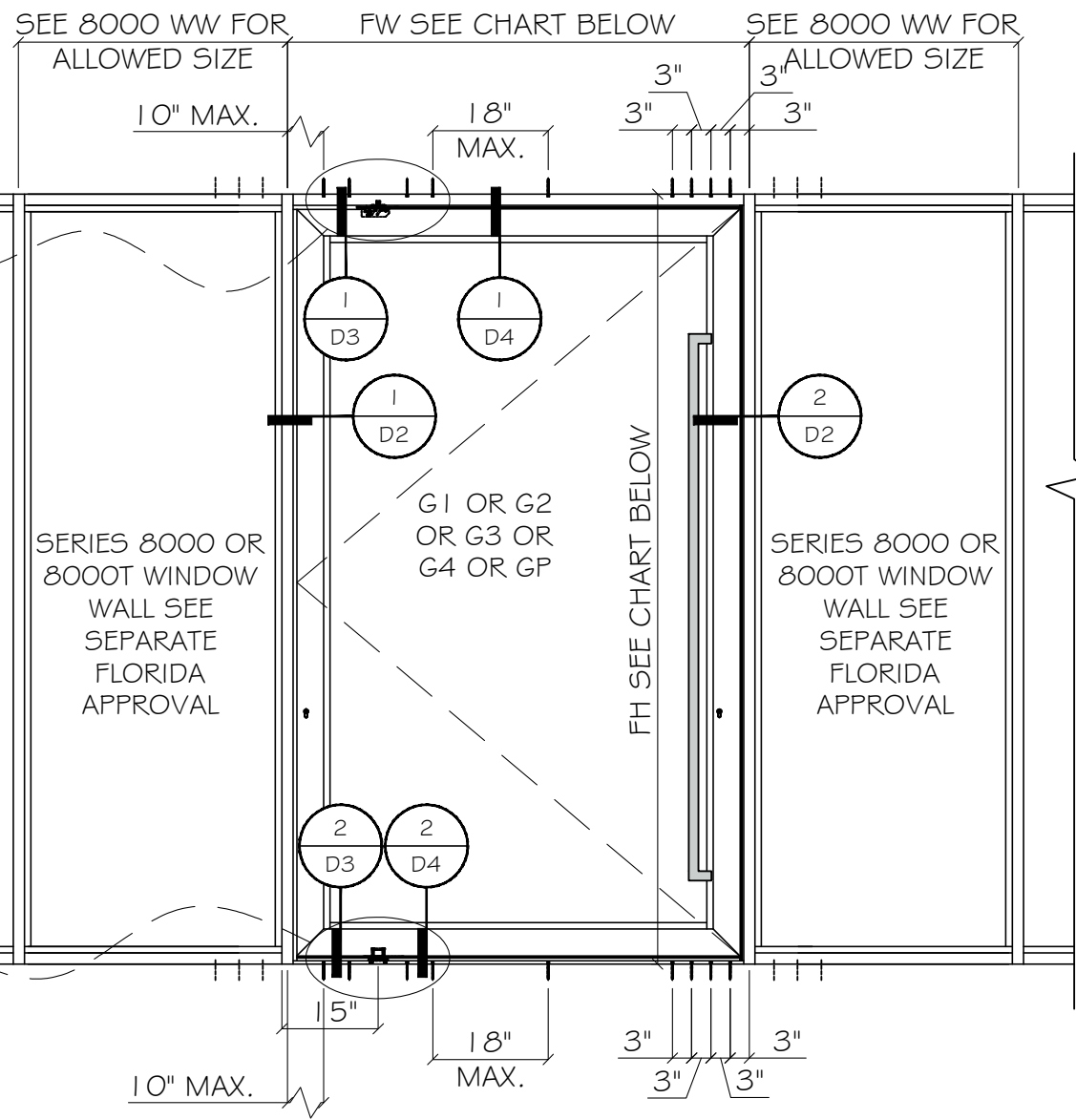
TYPICAL EXTERIOR ELEVATIONS



PIVOT OPTION

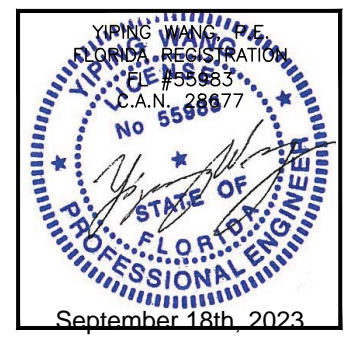
ALLOWABLE DESIGN LOADS			
DIMENSIONS (INCH)		GLASS TYPE	Pd(PSF)
FW (MAX.)	FH (MAX.)		
60"	144"	G1 OR G2 OR G3 OR G4 OR GP	±95
72"	120"		±95
90"	96"		±95

NOTE: FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC

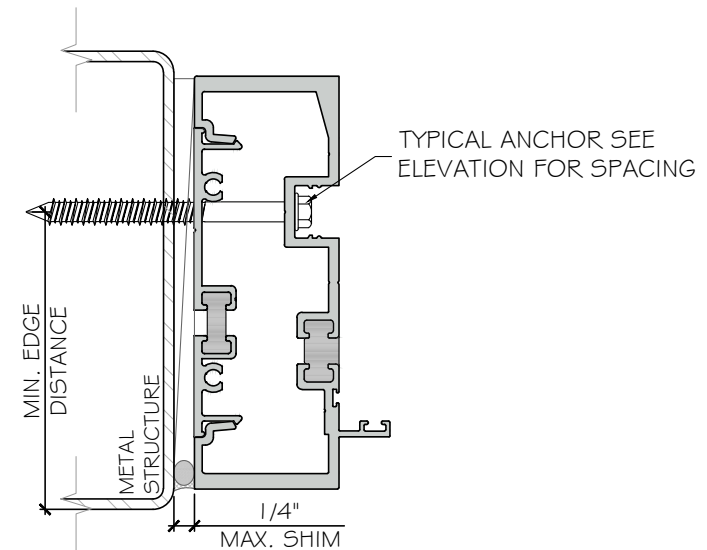
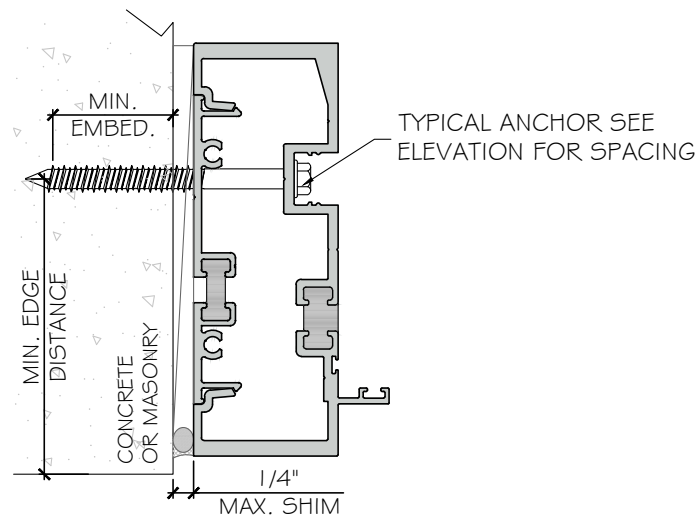
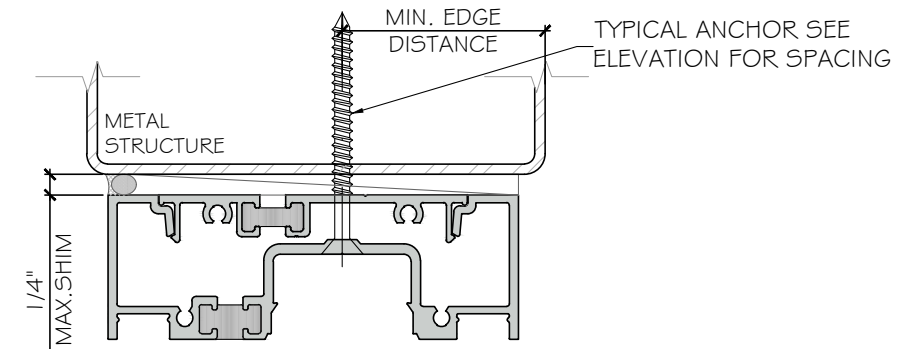
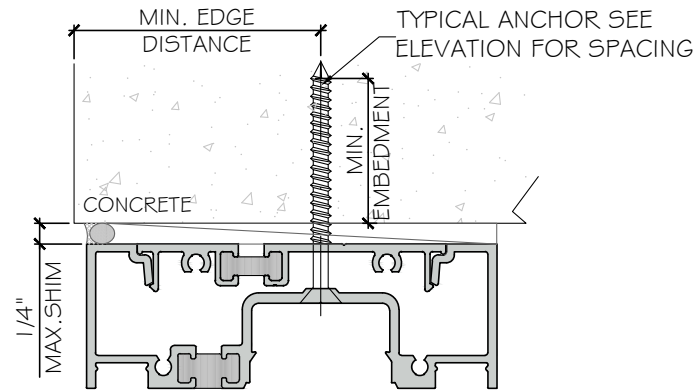


TYPICAL EXTERIOR ELEVATIONS

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NOTE: METAL STRUCTURES BY OTHERS MUST BE PROPERLY SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURES.

TYPICAL ANCHOR TYPES:
SEE ELEVATIONS FOR SPACING

TYPE "A": 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
WITH 1 3/4" MIN. EMBED

INTO HOLLOW BLOCK (JAMB ONLY)
WITH 1 1/4" MIN. EMBED

INTO GROUT FILLED BLOCKS (JAMB ONLY)
WITH 1 3/4" MIN. EMBED

TYPE "B": 1/4" SELF DRILLING SCREW (GRADE 5) (Fu=120 KSI, Fy=90 KSI)
INTO APPROVED MULLIONS
(1/8" THK. MIN.) INTO METAL STRUCTURE

STEEL: 1/8" MIN. (Fy=36 KSI MIN.)
ALUMINUM: 1/8" THK. MIN. (6063-T6 MIN.)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE
(STEEL IN CONTACT WITH ALUMINUM TO BE ISOLATED OR PAINTED)

TYPICAL ANCHOR EDGE DISTANCE:
INTO CONCRETE AND MASONRY = 2 1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD SG = 0.55 MIN.
CONCRETE fc = 3000 psi MIN.
C-90 HOLLOW/FILLED BLOCK fm = 2000 psi MIN.
NORMAL STRENGTH CMU (AT JAMB ONLY)

GLAZING BEAD AT FRAME SILL SEALED TO GLASS WITH DOW CORNING 791.
FRAME CORNERS SEALED WITH DOW CORNING 791 OR EQUAL COMPATIBLE

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YIPING WANG
FLORIDA REGISTRATION
FL # 55983
C.A.N. 28677
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER
September 18th, 2023

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Drawn By: James

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A1

Sheet No.
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SEE SHEET A1 FOR ANCHOR TYPE, SEE ELEVATION FOR ANCHOR LAYOUT

SEE SHEET A1 FOR ANCHOR TYPE, SEE ELEVATION FOR ANCHOR LAYOUT

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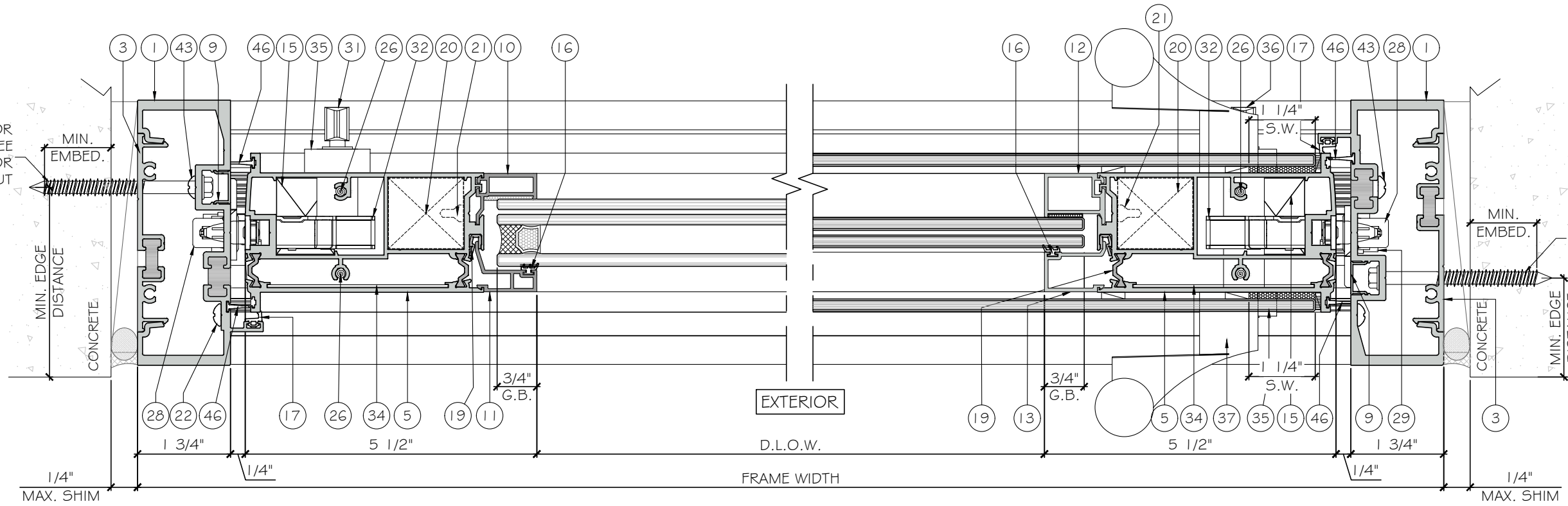
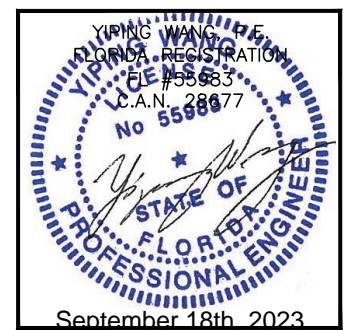
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D1

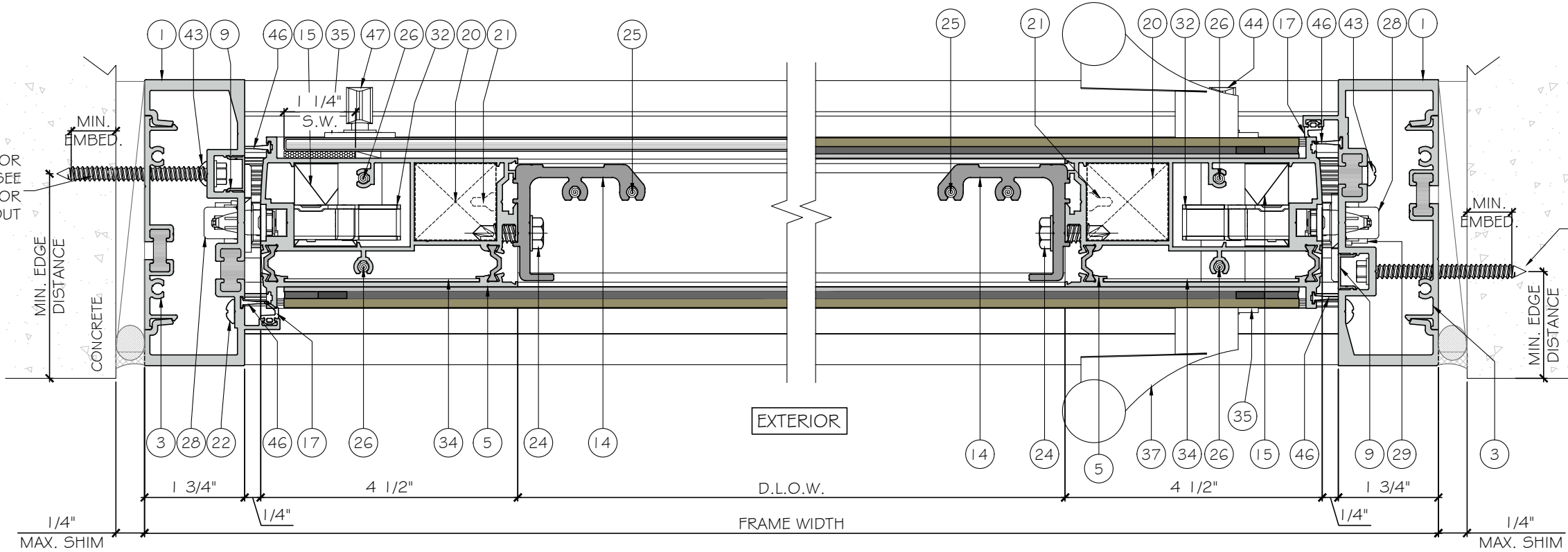
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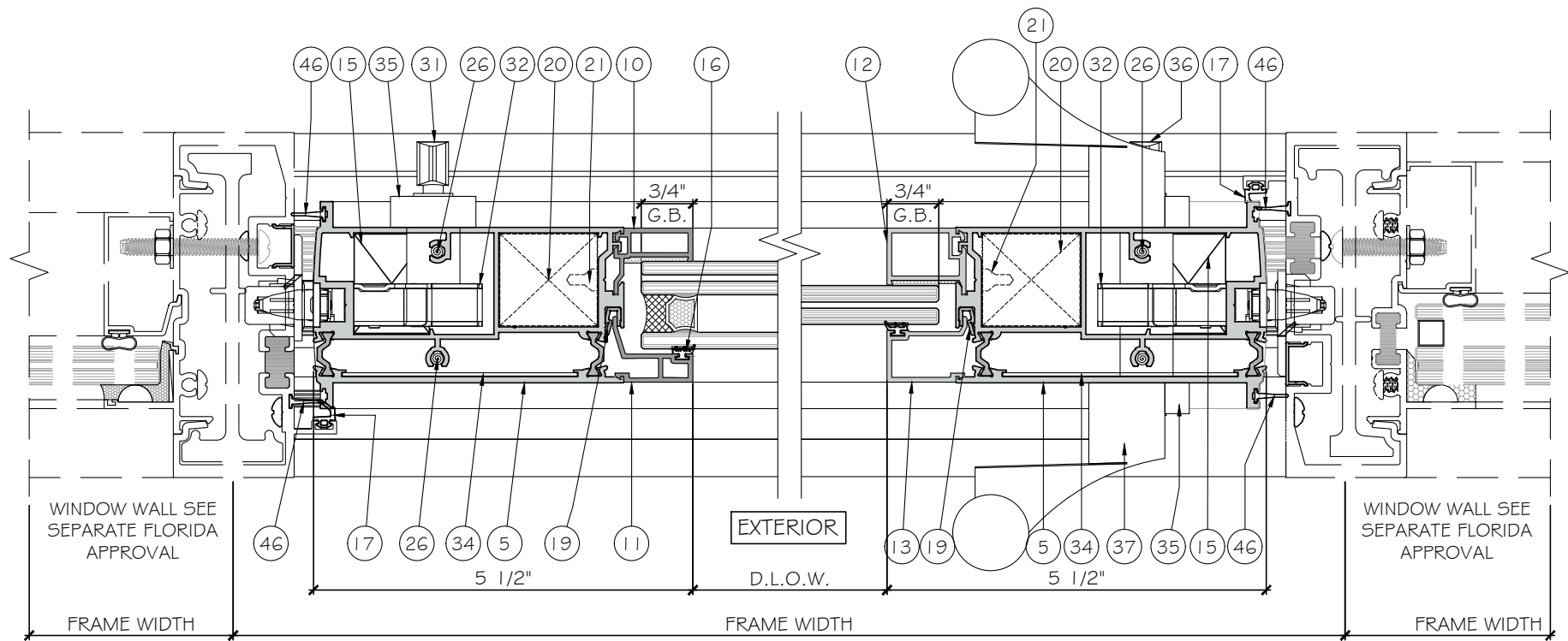
1 DETAIL
D1

2 DETAIL
D1



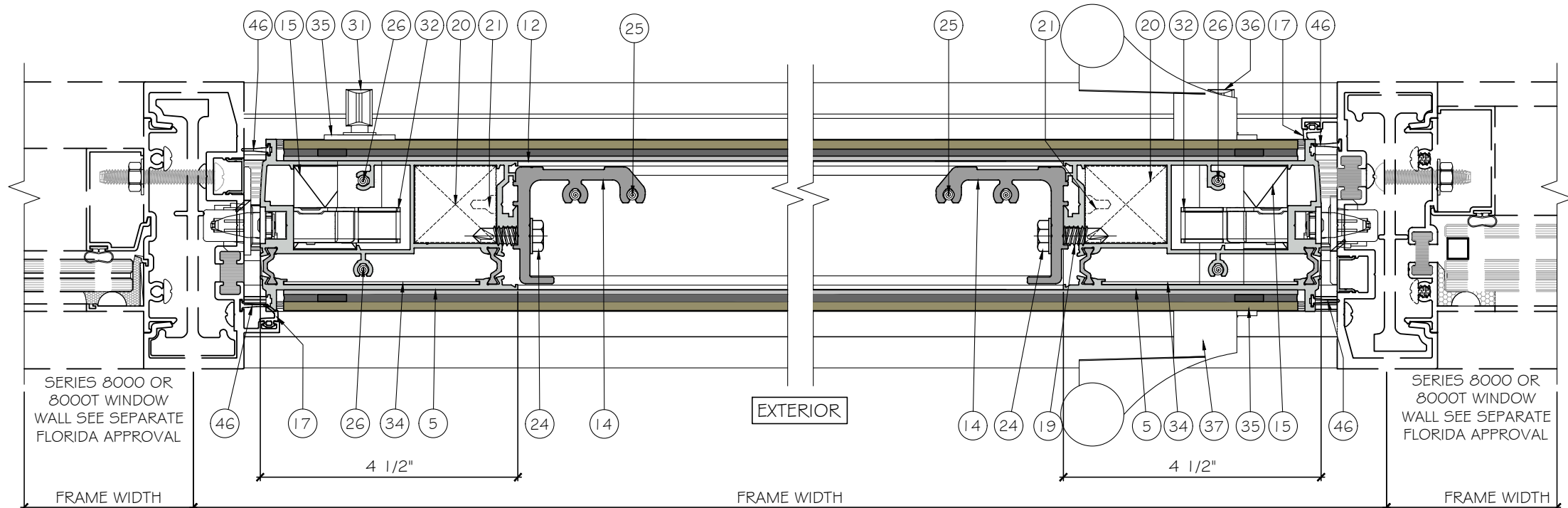
1 DETAIL
D1 OPTION

2 DETAIL
D1 OPTION



1
D2
DETAIL

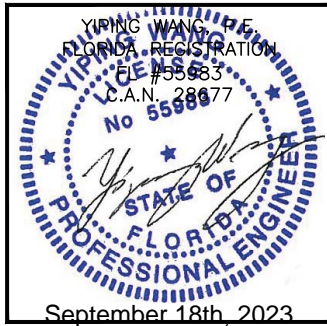
2
D2
DETAIL



1
D2
DETAIL
OPTION

2
D2
DETAIL
OPTION

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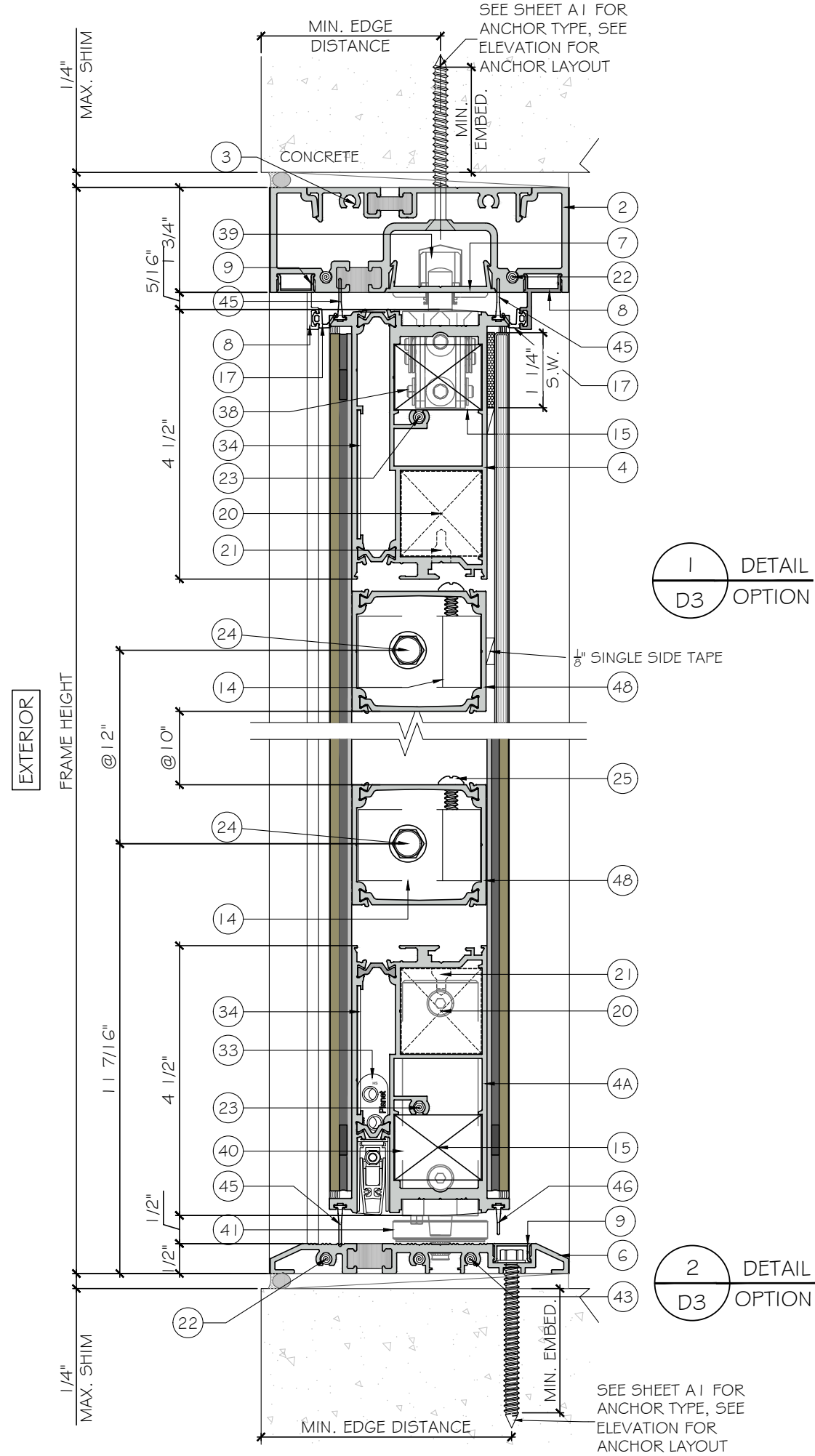
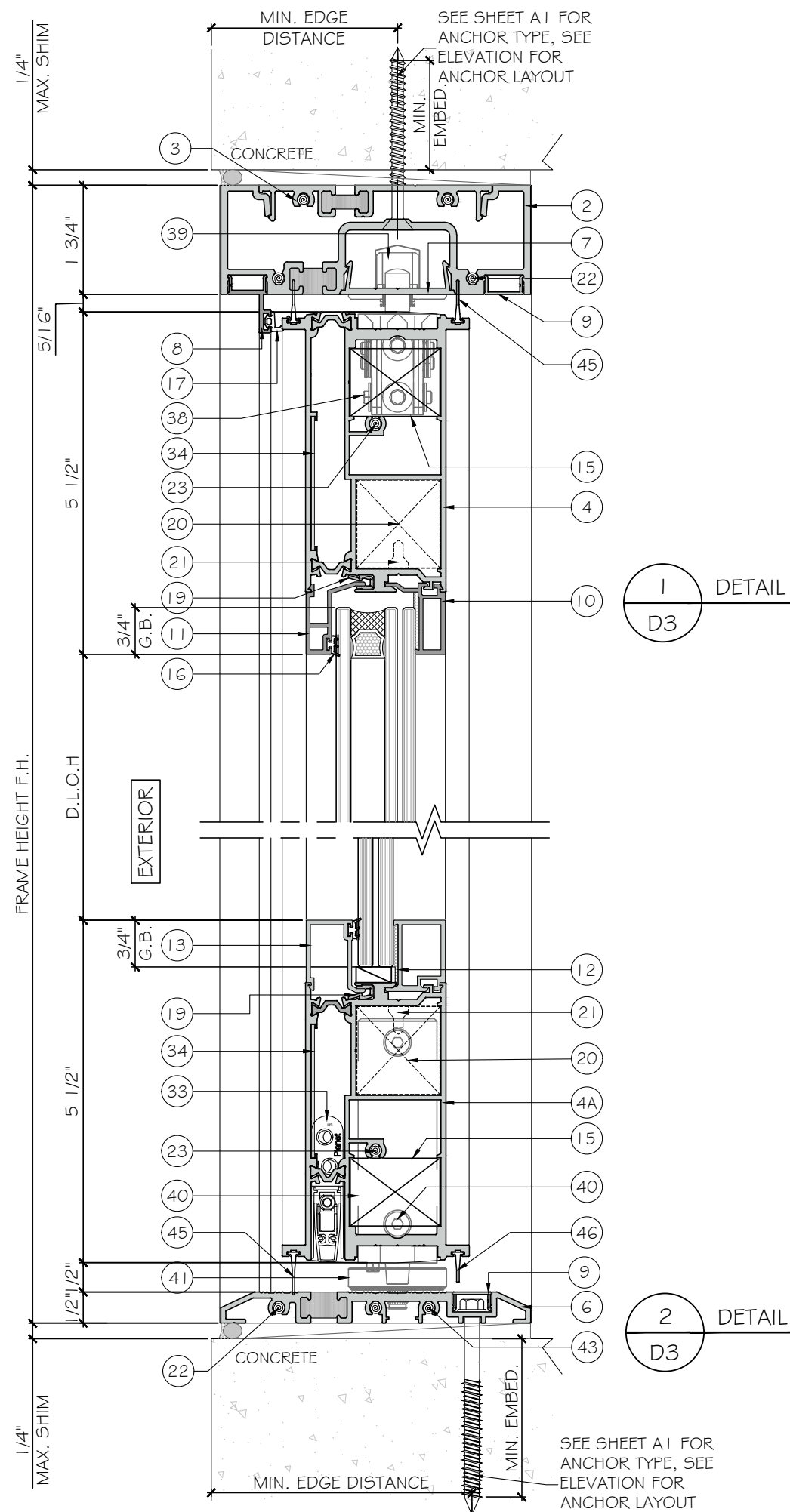


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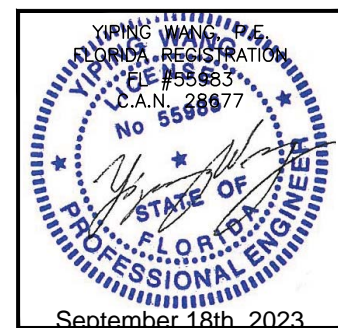
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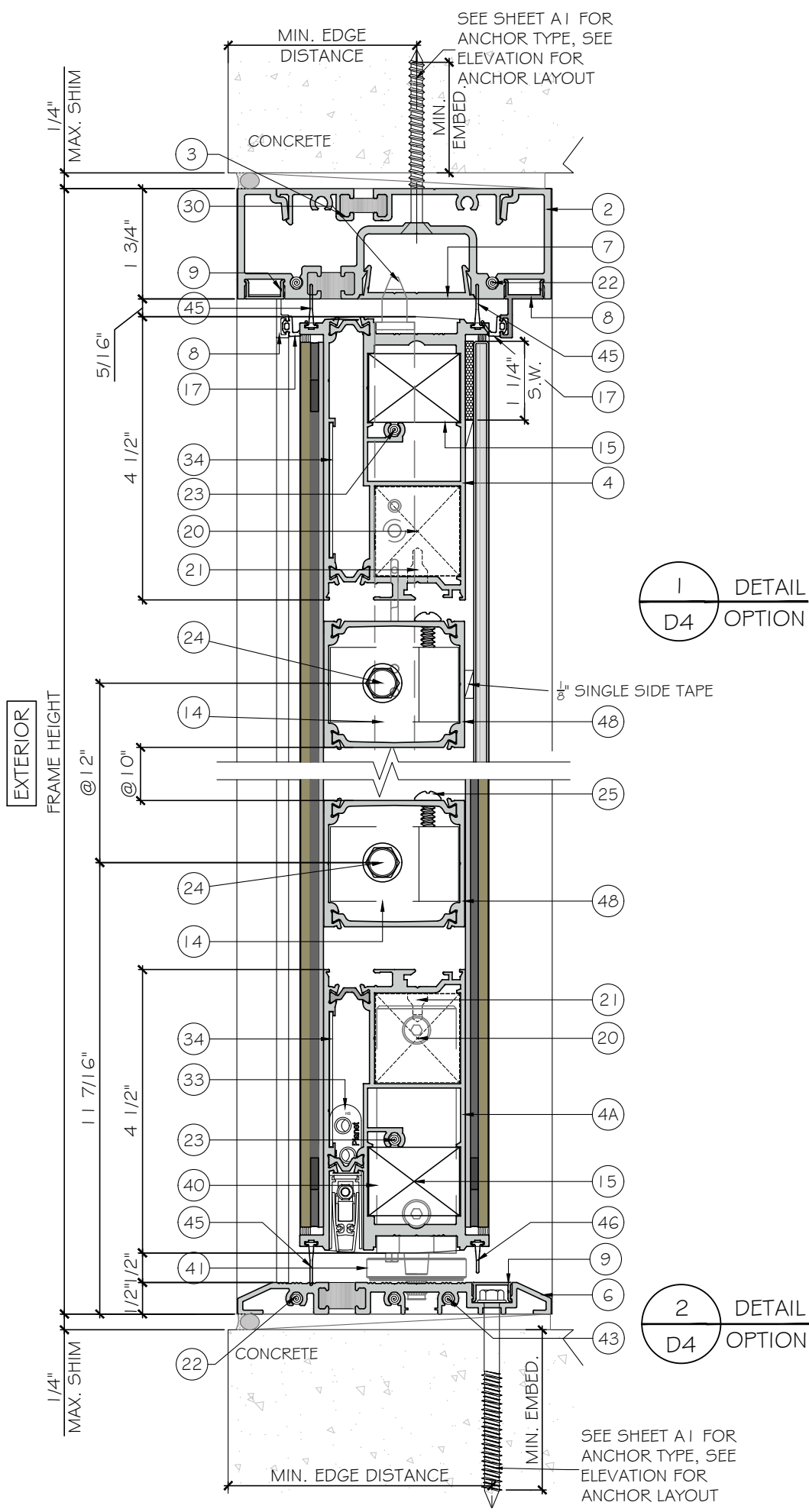
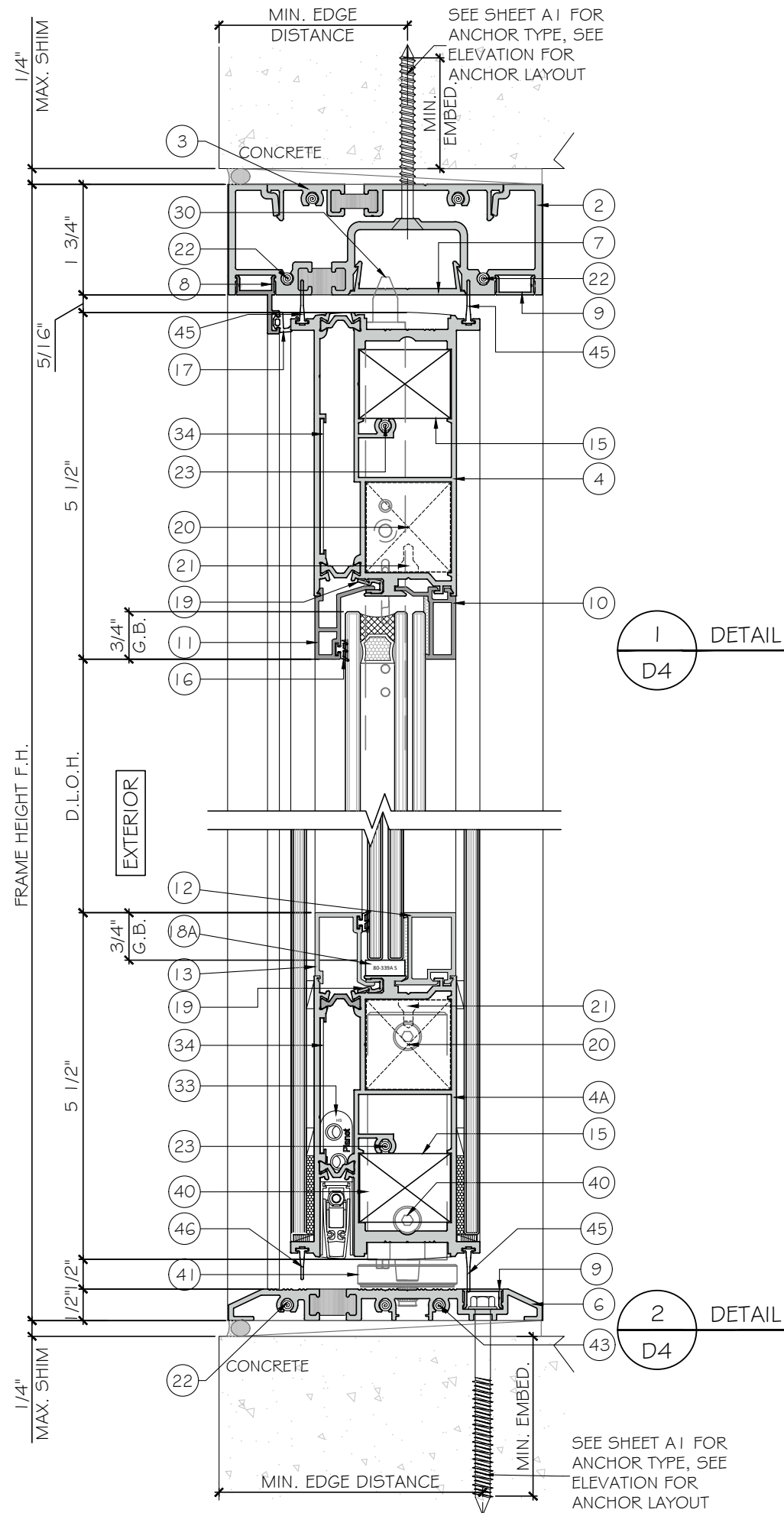


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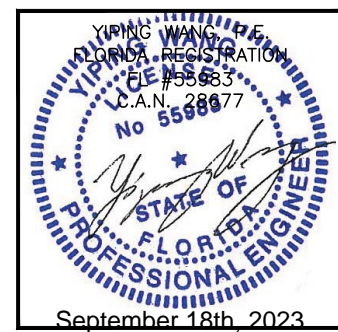
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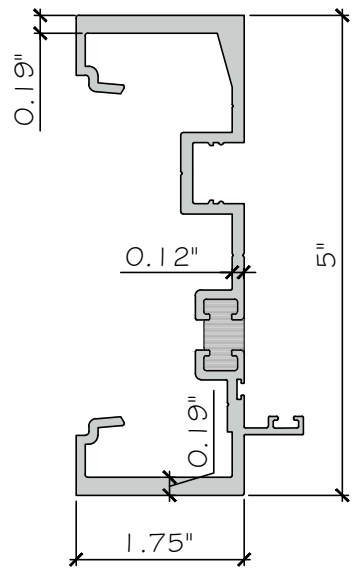


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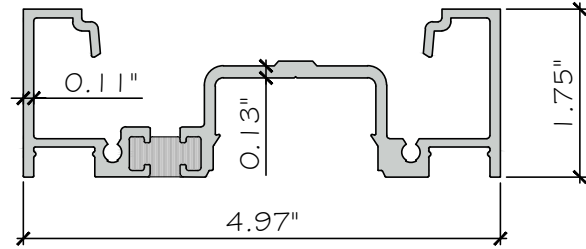
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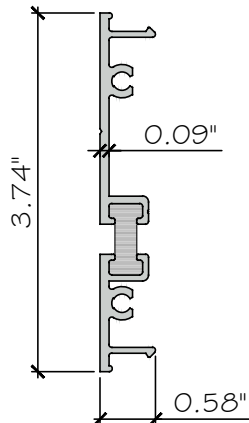
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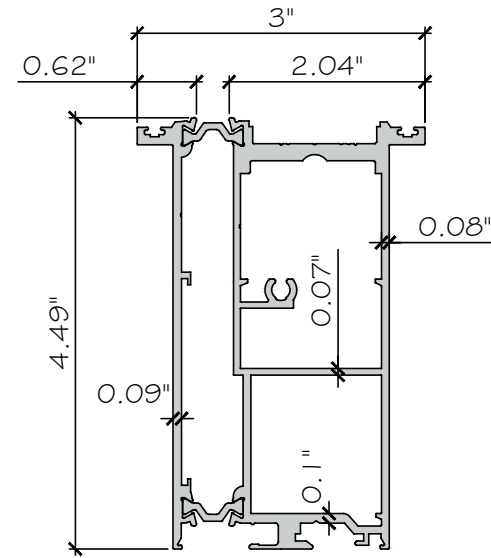
① FRAME JAMB
ES-PSD5030T-001T
ALUM.6005-T5



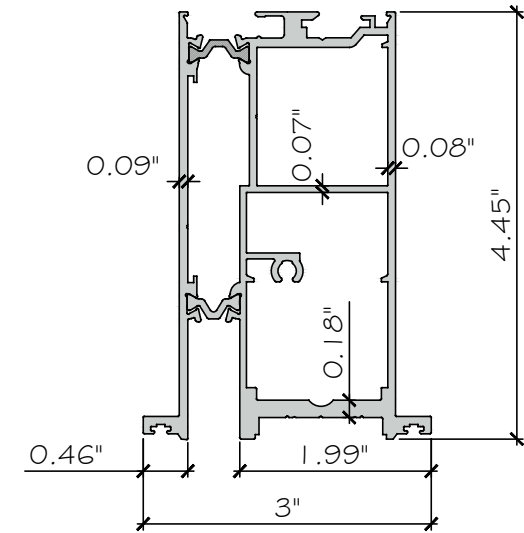
② FRAME HEAD
ES-PSD5030T-002T
ALUM.6005-T5



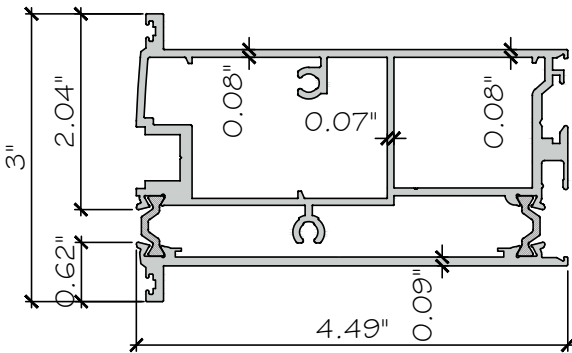
③ SHEAR CLIP
ES-8000T-003T
ALUM.6063-T6



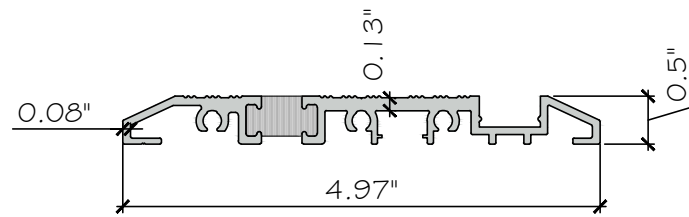
④ LEAF TOP 029 FRONT + 008 BACK
ES-PSD5030T-502
ALUM.6063-T6



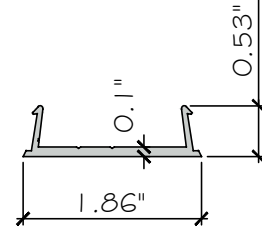
④A LEAF BOTTOM 009 FRONT + 010 BACK
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ALUM.6063-T6



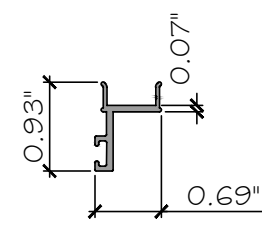
⑤ LEAF STILE 006 FRONT + 007 BACK
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ALUM.6063-T6



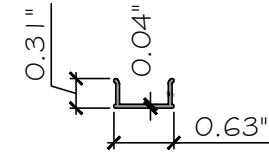
⑥ THRESHOLD
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ALUM.6063-T6



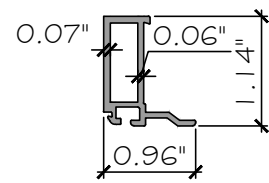
⑦ HEAD COVER
ES-PSD5030T-003
ALUM.6063-T5



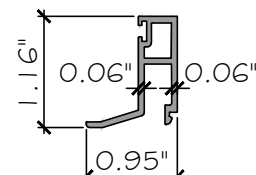
⑧ DOOR STOP
ES-PSD5030T-004
ALUM.6063-T5



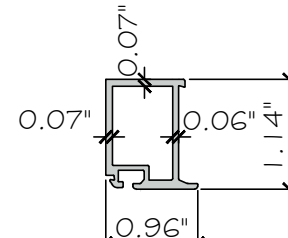
⑨ JAMB SCREW COVER
ES-EL114
ALUM.6063-T6



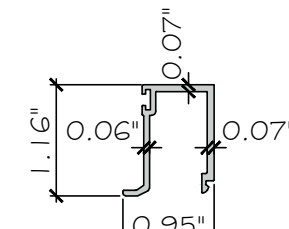
⑩ INTERIOR GLASS STOP
ES-PSD5030T-012
ALUM.6063-T5



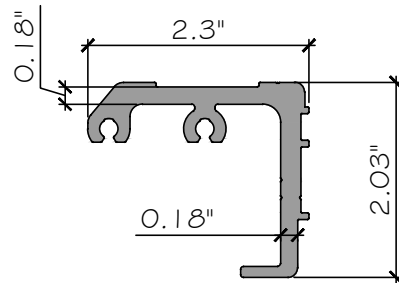
⑪ EXTERIOR GLASS STOP
ES-PSD5030T-011
ALUM.6063-T5



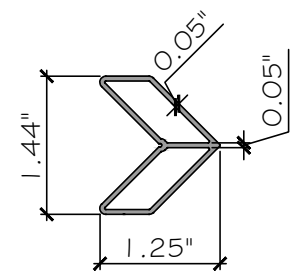
⑫ INTERIOR GLASS STOP
ES-PSD5030T-016
ALUM.6063-T5



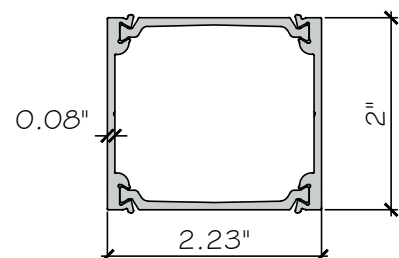
⑬ EXTERIOR GLASS STOP
ES-PSD5030T-015
ALUM.6063-T5



⑭ SHEAR BLOCK
ES-PSD5030T-017
ALUM.6063-T5

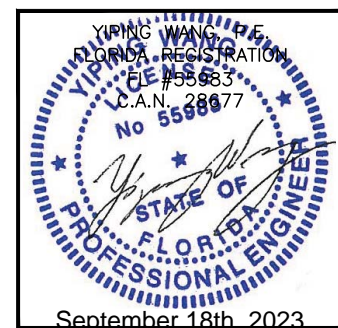


⑮ CORNER KEY
ES-45T-011
ALUM.6063-T5



⑱ INTERMEDIATE PANELS
020 FRONT + 020 BACK
ES-PSD5030T-504
ALUM.6063-T6

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BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL
1	ES-PSD5030T-001T	FRAME JAMB	ALUM.6005-T5
2	ES-PSD5030T-002T	FRAME HEAD	ALUM.6005-T5
3	ES-8000T-003T	SHEAR CLIP	ALUM.6063-T6
4	ES-PSD5030T-502	LEAF TOP 029 FRONT + 008 BACK	ALUM.6063-T6
4A	ES-PSD5030T-503	LEAF BOTTOM 009 FRONT + 010 BACK	ALUM.6063-T6
5	ES-PSD5030T-501	LEAF STILE 006 FRONT + 007 BACK	ALUM.6063-T6
6	ES-PSD5030T-005T	THRESHOLD	ALUM.6063-T6
7	ES-PSD5030T-003	HEAD COVER	ALUM.6063-T5
8	ES-PSD5030T-004	DOOR STOP	ALUM.6063-T5
9	ES-EL114	JAMB SCREW COVER	ALUM.6063-T6
10	ES-PSD5030T-012	INTERIOR GLASS STOP	ALUM.6063-T5
11	ES-PSD5030T-011	EXTERIOR GLASS STOP	ALUM.6063-T5
12	ES-PSD5030T-016	INTERIOR GLASS STOP	ALUM.6063-T5
13	ES-PSD5030T-015	EXTERIOR GLASS STOP	ALUM.6063-T5
14	ES-PSD5030T-017	SHEAR BLOCK	ALUM.6063-T5
15	ES-45T-011	CORNER KEY	ALUM.6063-T5
16	EMP-768 ES-EL100-GO2A	GLAZING GASKET	SILICONE
17	EMP-501 ES-EL300-GO1 E	SEAL GASKET	EPDM
18	EMP-471 ES-7530-B02A S	INSULATED LAMINATED SETTING BLOCK, 80±5SHORE A	SILICONE
18A	EMP-682 80-339A S	LAMINATED SETTING BLOCK, 80±5SHORE A	SILICONE
19	ES-UN8030-301	ISOLATOR	RIGID PVC
20	5039/50 CORNER JOINT	ESCUADRA DE ENSAMBLE	ALUMINUM
21	VILM5X14_D8	CORNER SCREW (5039/50)	STAINLESS STEEL
22	TOR #12 X 1" PAN NATURAL INOX	FRAME ASSEMBLY SCREW	STAINLESS STEEL
23	TOR #12 X 2" PHIL FLAT TYPE A 18-855	LEAF ASSEMBLY SCREW	STAINLESS STEEL
24	TOR #14 X 3/4" HWH TYPE AB	SCREW FOR SHEAR BLOCK	STAINLESS STEEL
25	TOR #12 X 3/4" PH	SCREW FOR SHEAR BLOCK INTERMEDIATE (PANELEX)	STAINLESS STEEL
26	#12 X 2 1/2" F.H.	SCREW FOR LEAF ASSEMBLY TOP/ BOTTOM	STAINLESS STEEL
27	#14 X 3 1/4" HWH (390) ELCO	SCREW FOR INSTALLATION JAMB/SILL	STAINLESS STEEL
28	3479715 - LSB 8050-752 - LEFT	STRIKER	STAINLESS STEEL
29	3478750 - FSB 3630-03-24Q/41 KEEPER	STRIKER	STAINLESS STEEL
30	3145903 - 7029 SHOOTBOLT	SHOOTBOLT BOTTOM	STAINLESS STEEL
31	DLO1-6259-* CYLINDER 40/10 TURN BR	CYLINDER 40/10	BRASS
32	3492553 - AS2600 MULTIPONT LOCK	LOCK	STAINLESS STEEL

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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ES-PSD5030T PIVOT DOOR - L.M.I.

E.S. WINDOWS, INC.
10653 NE QUAYBRIDGE CT.
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Rev. No.	Date	Drawn By	Description
R2	09.18.2023	James	UPDATE TO FBC 2023

FLORIDA APPROVAL:
FL # 41358.1

YIPING WANG
FLORIDA REGISTRATION
No. 55988
C.A.N. 28677

September 18th, 2023

Drawn Date 09.18.2023	Drawn By James
DRAWING NO. AD22-07	
BOM	
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BILL OF MATERIALS

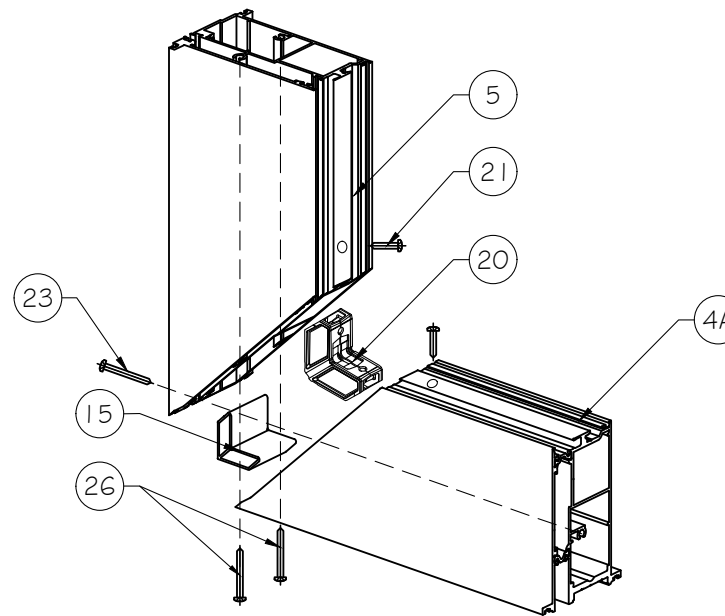
ITEM	PART	DESCRIPTION	MATERIAL
32	3492553 - AS2600 MULTIPONT LOCK	LOCK	STAINLESS STEEL
33	PLANET HS DROP SEAL	DROP SEAL	STAINLESS STEEL
34	ESC-004 ES-PSD5030T-EO I	ESC-004 ES-PSD5030T-EO I	-
35	PSO1-6208-* ROSE COVER	COVER CYLINDER	STAINLESS STEEL
36	DLO1-6253-* CYLINDER 40/40 TURN/KEY	CYLINDER	BRASS
37	SHPRO3 I60LPNS60 I 250 DOOR THICK 2 1/4"	PULL-PULL	AISI 316 STAINLESS STEEL
38	600532*- SYSTEM M32	TOP PIVOT	STAINLESS STEEL
39		CEILING PLATE	STAINLESS STEEL
40		SYSTEM M	STAINLESS STEEL
41		FLOOR PLATE	STAINLESS STEEL
42	600101/B11 - SYSTEM ONE - SS	SYSTEM ONE HINGE SYSTEM KIT	STAINLESS STEEL
43	TOR #12 x 1 1/2" P.H. S.M.S. ST/ST	FOR ASSEMBLY (ES-8000 FRAME)	STAINLESS STEEL
44	DLO1-6200-* CYLIND 45/45 TURN/KEY BR	CYLIND 45/45 FOR PANELEX	BRASS
45	ES-PSD5030T-G02 S	BOTTOM AND TOP GASKET	POLYPROPYLENE
46	ES-PSD5030T-G01 S	BOTTOM AND STILE GASKET	POLYPROPYLENE
47	CILINDRO 45/10 SOLO BOTON 820945 I09	CYLIND 45/10 FOR PANELEX	BRASS
48	ES-PSD5030T-504	INTERMEDIATE PANELS O20 FRONT + O20 BACK	ALUM.6063-T6
49	900920 - PIVOT DOOR ACCESORY	PIVOT DOOR ACCESORY	-
50	DC-983	STRUCTURAL SEALANT	SILICONE
51	-	1/8" THK SETTING BLOCK @ G3, 80±5SHORE A	SILICONE

LOCK SYSTEM

SIX SURFACE MOUNT METALLIC KEEPERS AT 19", 78", 101" FROM BOTTOM OF FRAME JAMB WITH (2) #8X3/4" FH SMS.
 MULTI POINT LOCKING SYSTEM WITH KEY OPERATOR ON THE INTERIOR AT 44 3/4" FROM BOTTOM AT LEFT JAMB STILE WITH (1)#1 2X1 1/2" FH MS.
 MULTI POINT LOCKING SYSTEM WITH THUMB TURN OPERATOR ON THE INTERIOR AND KEY OPERATOR ON THE EXTERIOR AT 44 3/4" FROM BOTTOM AT RIGHT JAMB STILE WITH (1)#1 2X1 1/2" FH MS.

TWO SURFACE MOUNT METALLIC STRIKE PLATES AT 44 3/4" FROM BOTTOM AT LEFT AND RIGHT FRAME JAMBS.

THE LOCKING RODS PENETRATES 1/2" INTO FRAME HEAD AND THRESHOLD.



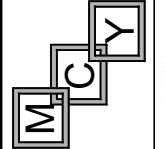
CORNER ASSEMBLY

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