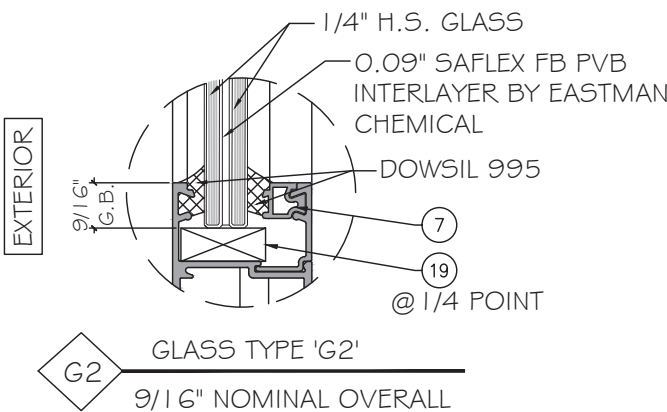
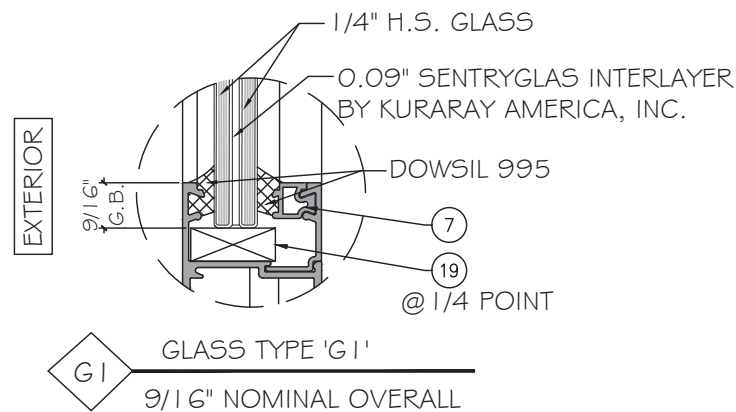


DO IT IMPACT, INC.
SPA 150 ALUMINUM OUTSWING FRENCH DOOR - L.M.I.



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 FOR WATER INFILTRATION REFER TO DETAILS.
- 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 7-22, 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.
- SEALANTS:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICON SEALANT.

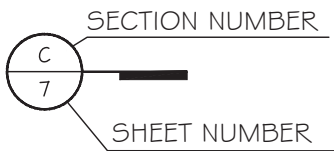
USE CHARTS AS FOLLOWS.

- 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#E2 FOR TYPICAL DOORS ELEVATION.
- STEP 3:** SEE SHEET A1 FOR ANCHOR OPTIONS. SEE SHEET E1#E2 FOR ANCHOR LAYOUT.
- STEP4:** THE LOWEST VALUE RESULTING FROM STEPS 2 & 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THROUGH STEP 1 SHALL APPLY TO ENTIRE SYSTEM

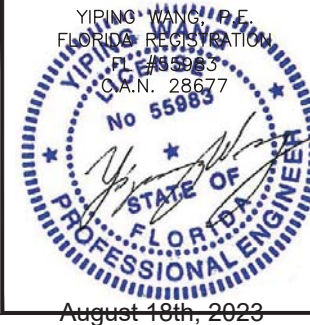
NOTE:
GLASS COMPLIES WITH ASTM E1300-09
(3 SEC. GUSTS).

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
G.B. - GLASS BITE



FLORIDA APPROVAL:
FL 42342

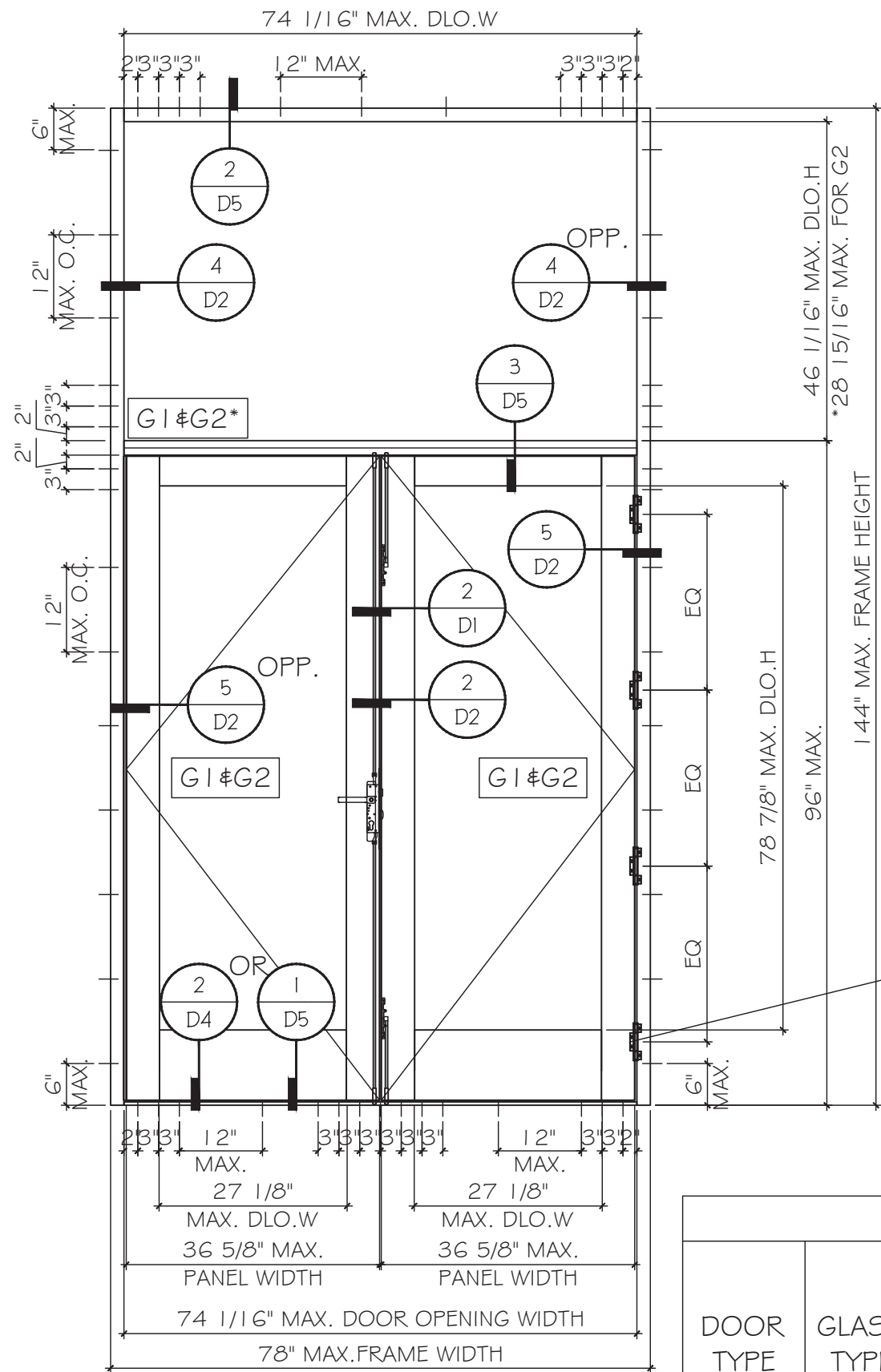


SPA150 ALUMINUM OUTSWING FRENCH DOOR - L.M.I.

Do it impact, inc.
7501 East Adamo Drive
Tampa, Florida 33619
P: 321 946 5816 email: info@dotimpact.com

Drawn Date	Drawn By	Rev. No.	Description
08.17.2023	James	01	NEW PRODUCT APPLICATION
DRAWING NO. AD23-33			
C1			
Sheet No. 1 OF 14			

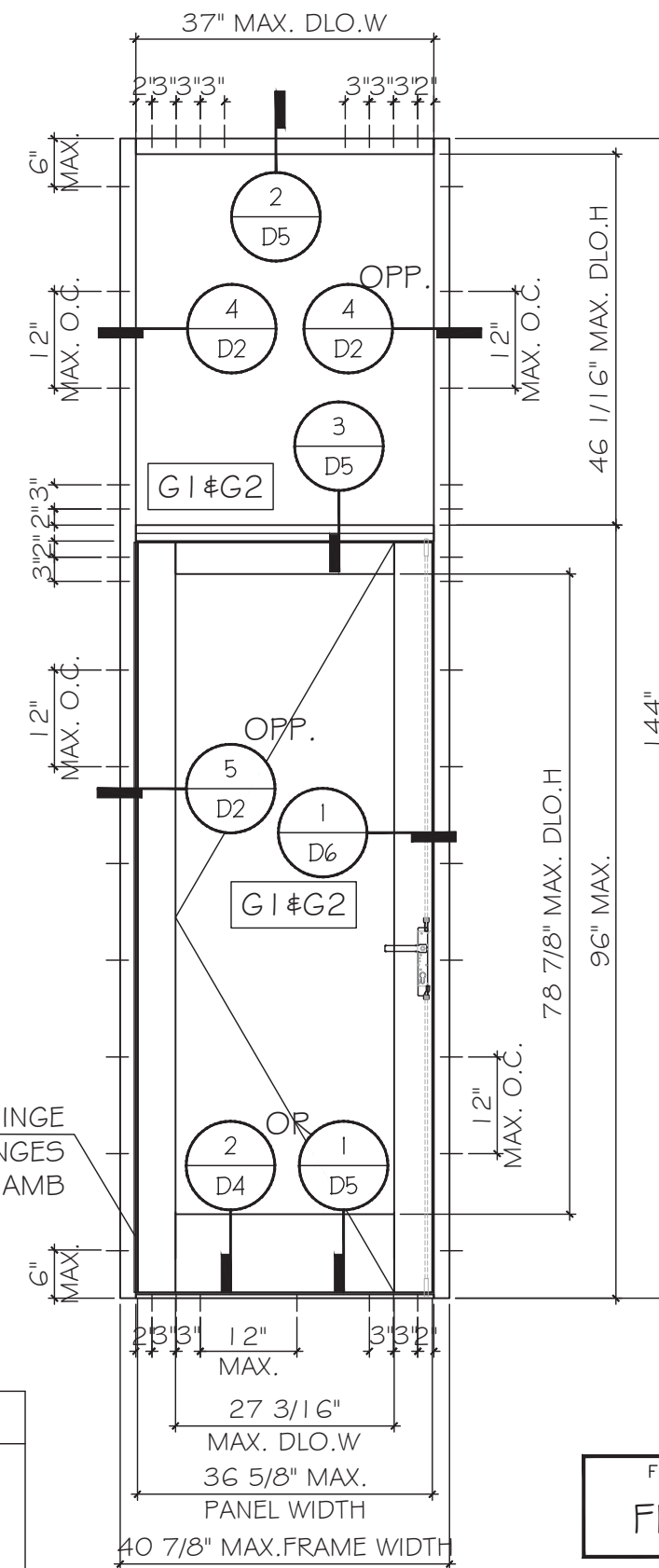
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027 P: 305 271-0117
www.MCYEngineering.com mcy@mcycengineering.com



TYPICAL EXTERIOR ELEVATIONS
NOTE: ALLOWABLE DESIGN LOAD
FOR SIZE SHOWN ABOVE OR
SMALLER AS PERMITTED BY FBC

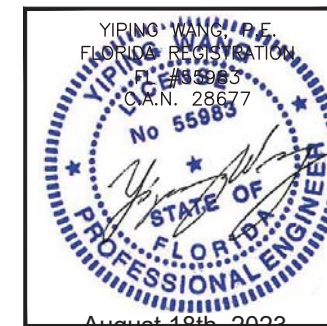
DOOR WITH DEEP FRAME					
DOOR TYPE	GLASS TYPE	MAX. DIMENSIONS		DESIGN LOADS (PSF)	HINGE OPTION
		FRAME WIDTH INCH.	FRAME HEIGHT INCH.		
DOUBLE DOOR	G1	78	96	96	#1 OR #2
	G2	78	96	65	
SINGLE DOOR	G1	41	96	96	
	G2	41	96	65	
					#1 OR #2 OR #3

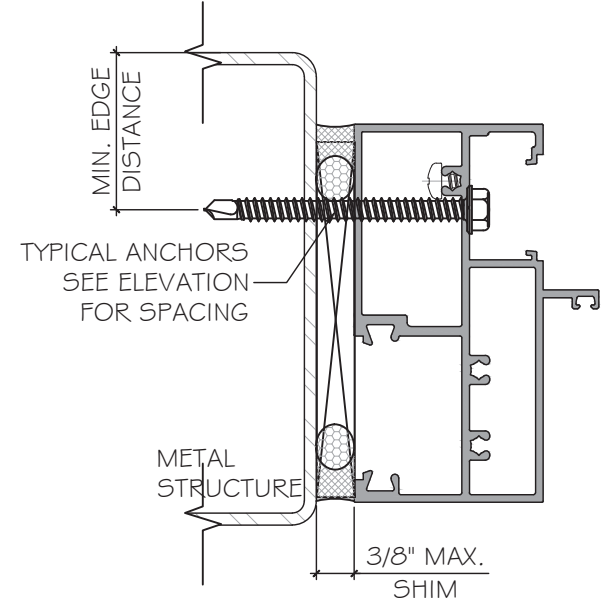
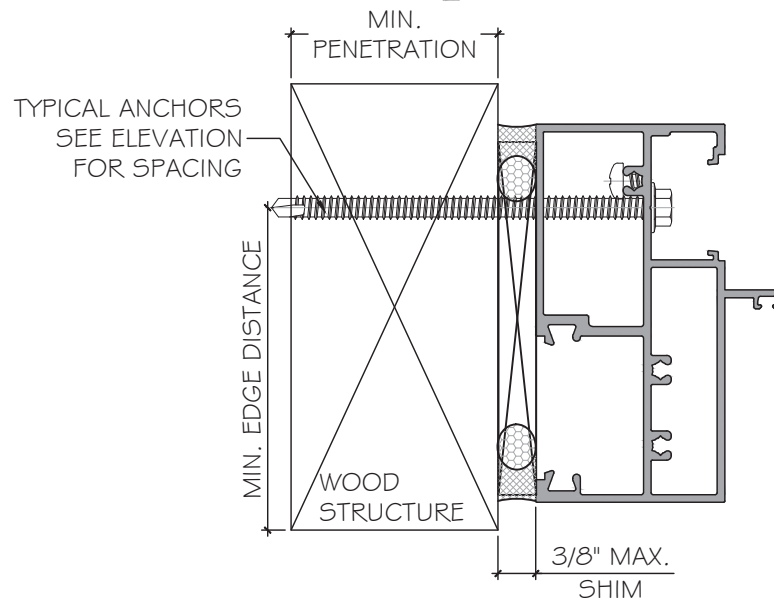
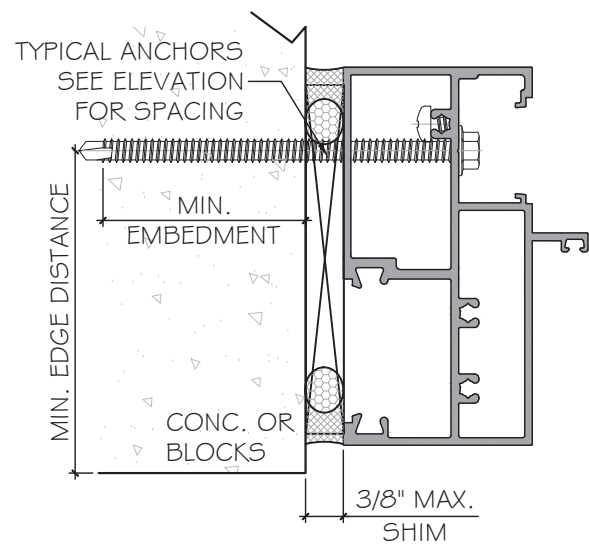
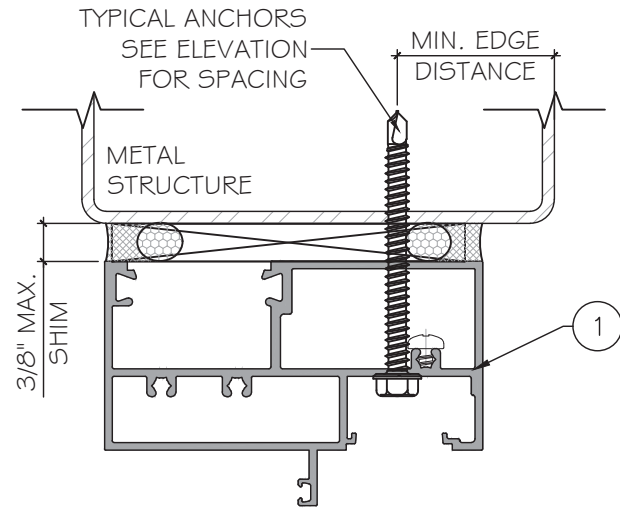
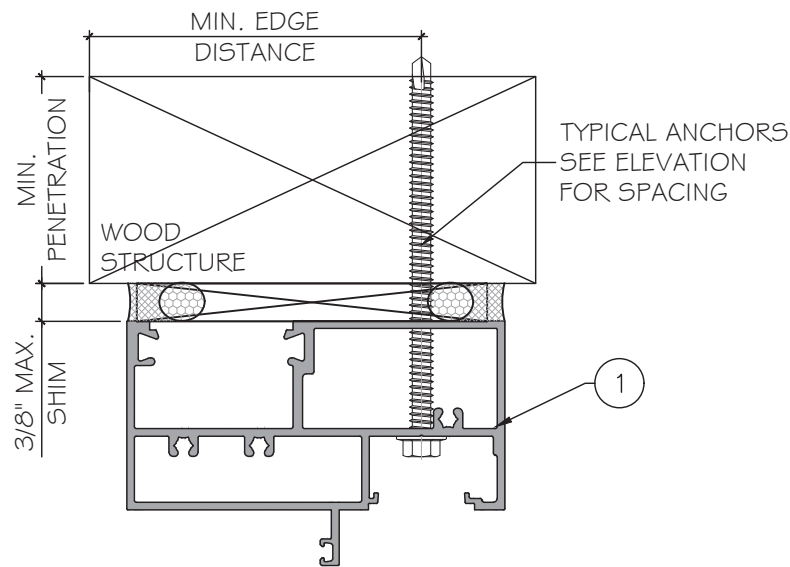
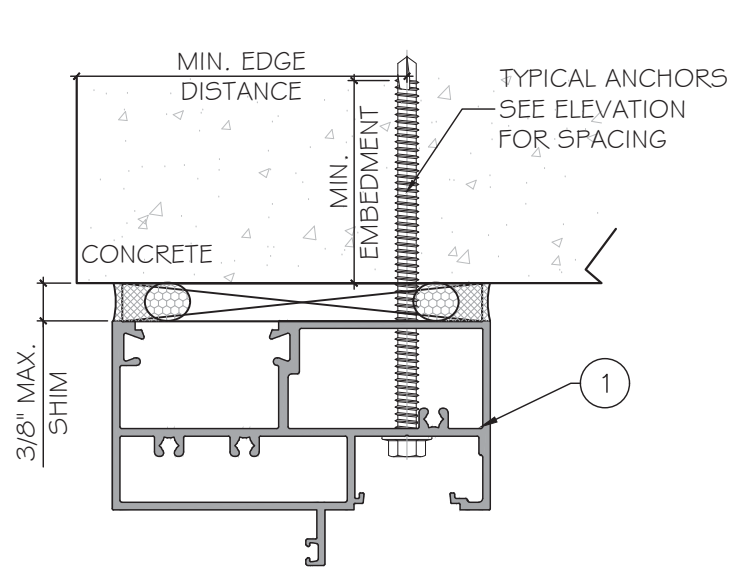
CONTINUOUS HINGE
OR 4 BUTT HINGES
PER DOOR JAMB



TYPICAL EXTERIOR ELEVATIONS
NOTE: ALLOWABLE DESIGN LOAD
FOR SIZE SHOWN ABOVE OR
SMALLER AS PERMITTED BY FBC

FLORIDA APPROVAL:
FL 42342





TYPICAL ANCHOR TYPES:
SEE ELEVATIONS FOR SPACING

TYPE "A": 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164$ KSI, $F_y = 148$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 | 1/2" MIN. PENETRATION INTO WOOD(HEAD/ JAMB)

THRU 1 BY WOOD BUCKS INTO CONC. OR BLOCKS
 | 3/4" MIN. EMBED INTO CONCRETE (HEAD/ JAMBS)
 | 3/4" MIN. EMBED INTO CONC. BLOCKS (JAMB ONLY)

DIRECTLY INTO CONC. OR BLOCKS
 | 3/4" MIN. EMBED INTO CONCRETE (HEAD/ JAMBS/ SILL)
 | 3/4" MIN. EMBED INTO CONC. BLOCKS (JAMB ONLY)

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

STEEL: 12 GA. MIN. ($F_y = 36$ KSI MIN.)
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PANTED)

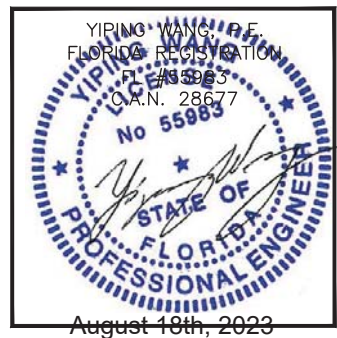
TYPICAL ANCHOR EDGE DISTANCE:
 INTO CONCRETE = 2 1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD SG = 0.55 MIN.
 CONCRETE $f'_c = 3000$ psi MIN.
 C-90 HOLLOW/FILLED BLOCK $f'_m = 2000$ psi MIN.
 NORMAL STRENGTH CMU(AT JAMB ONLY)

GLAZING BEAD AT FRAME SILL SEALED TO GLASS WITH DOW CORNING 983.
 FRAME CORNERS SEALED WITH DOW CORNING 999 OR EQUAL COMPATIBLE

NOTE:
 METAL/ WOOD STRUCTURE BY OTHERS MUST BE
 DESIGNED AND ANCHORED PROPERLY TO SUSTAIN
 LOADS IMPOSED BY GLAZING SYSTEM AND
 TRANSFER THEM TO THE BUILDING STRUCTURE.

FLORIDA APPROVAL:
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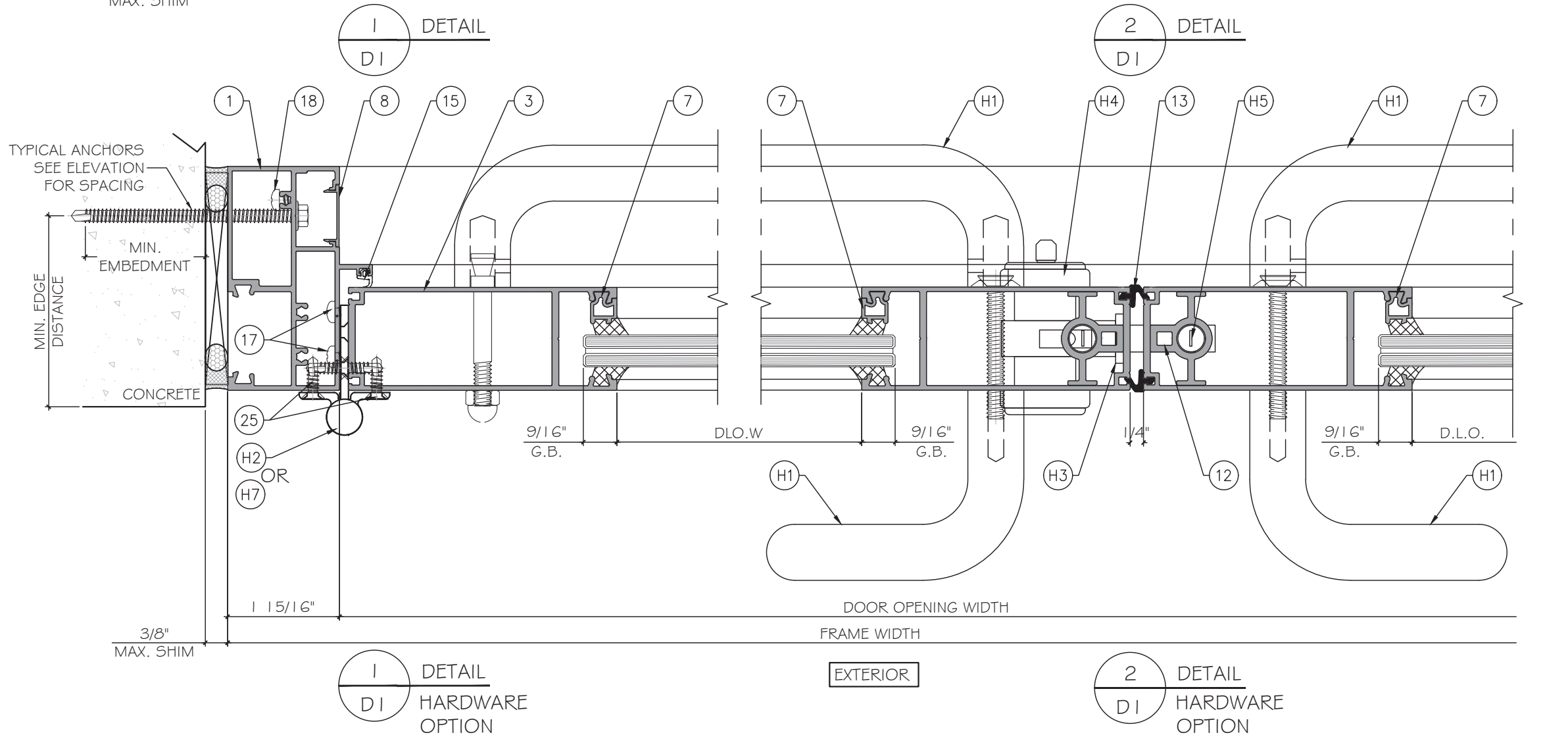
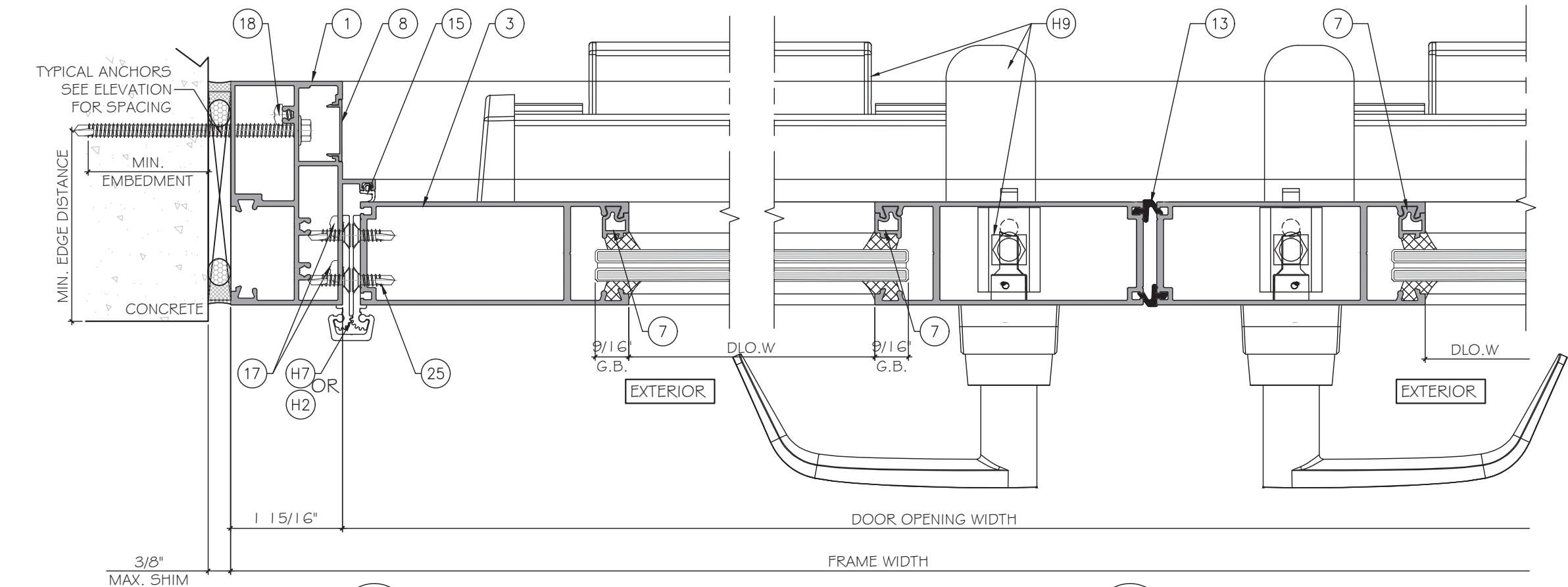


SPA150 ALUMINUM OUTSWING FRENCH DOOR - L.M.I.

Do it impact, inc.
 7501 East Adamo Drive
 Tampa, Florida 33619
 P: 321 946 5816 email: info@dotimpact.com

Drawn Date	Drawn By	Rev. No.	Description
08.17.2023	James	01	NEW PRODUCT APPLICATION
DRAWING NO. AD23-33			
A1			
Sheet No. 4 OF 14			

MCY ENGINEERING, INC.
 GLAZING CONSULTANTS
 12781 MIRAMAR PKWY. STE. 301
 MIRAMAR, FL 33027 P: 305 271-0117
 www.MCYEngineering.com mcy@mcyengineering.com



FLORIDA APPROVAL:
FL 42342

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
August 18th, 2023

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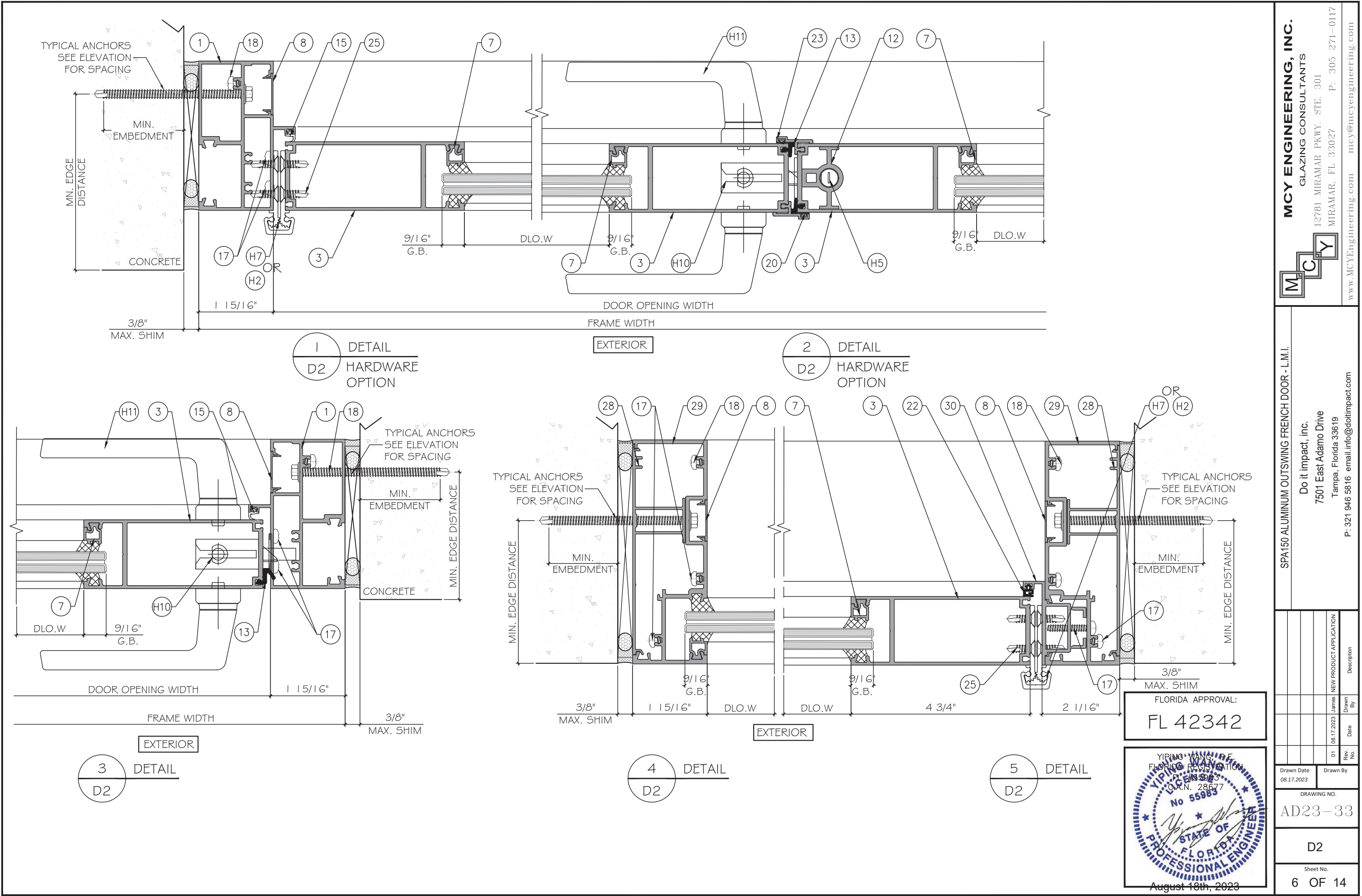
Rev. No.	Date	Drawn By	Description
01	08.17.2023	James	NEW PRODUCT APPLICATION

Drawn Date: 08.17.2023

Drawn By: James

DRAWING NO. AD23-33

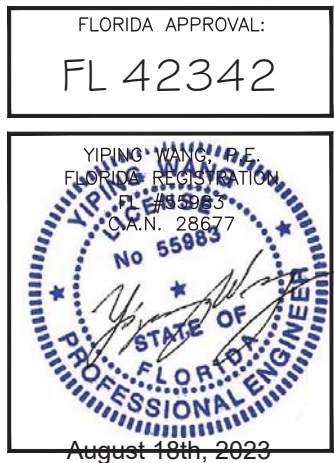
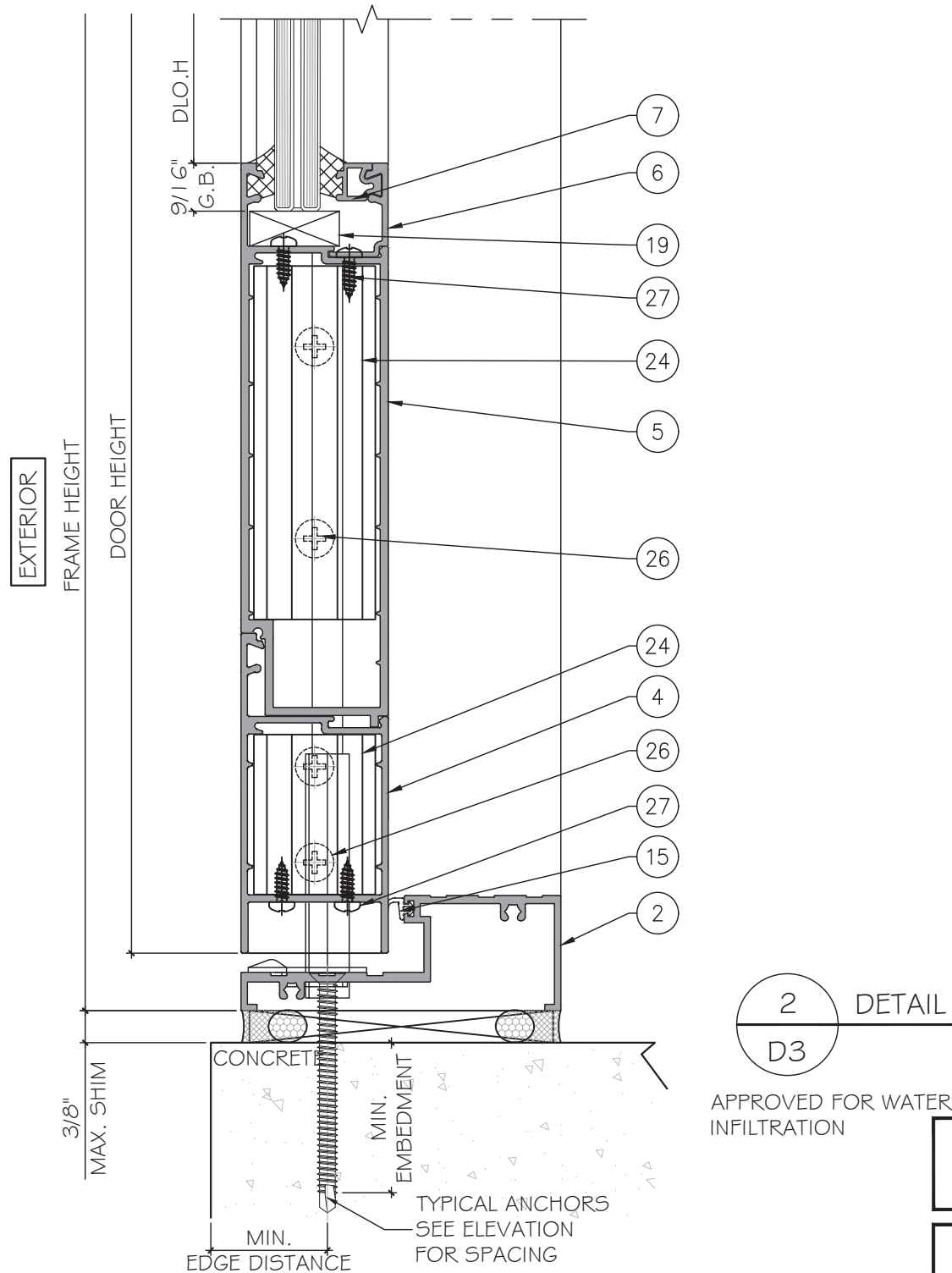
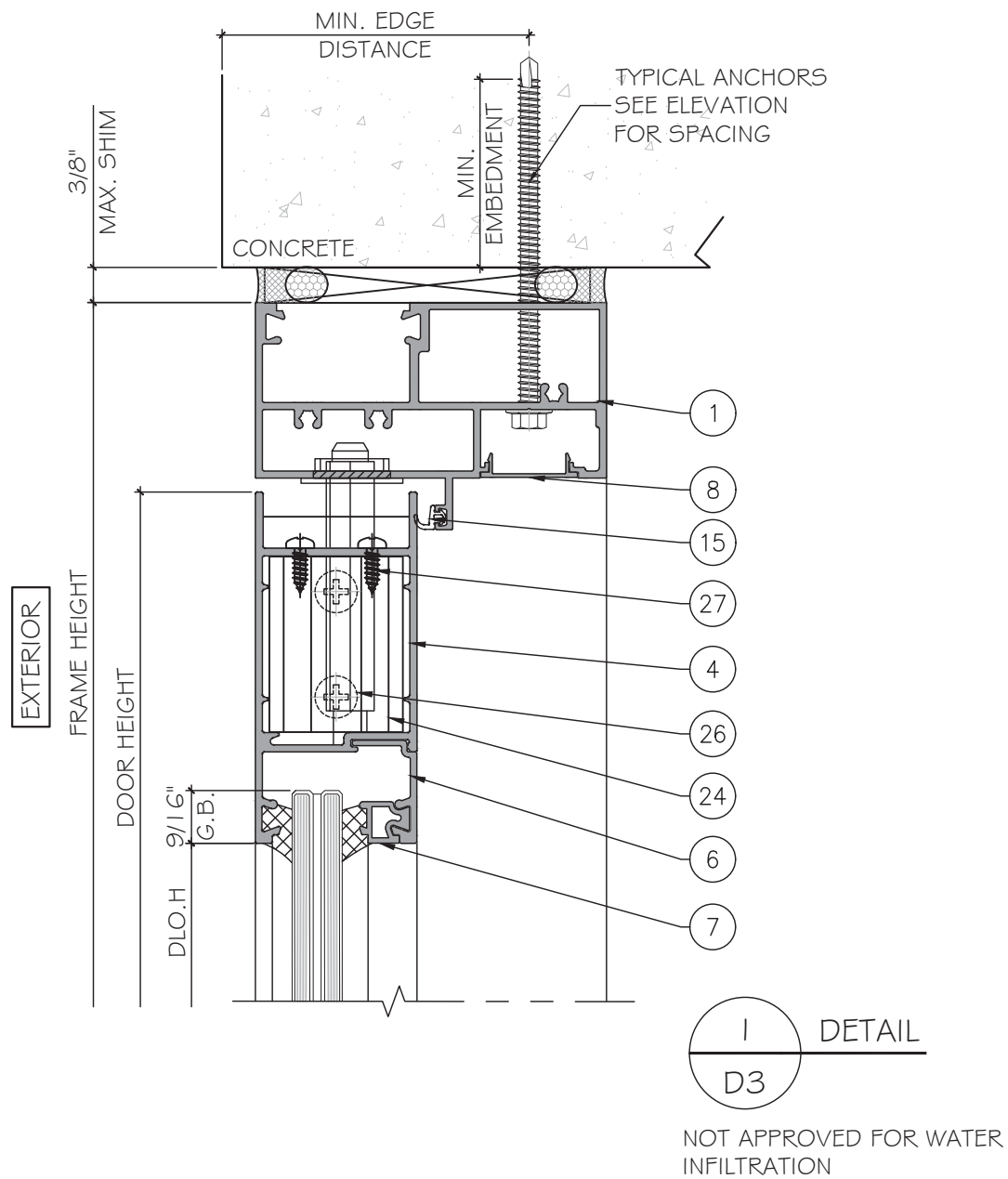
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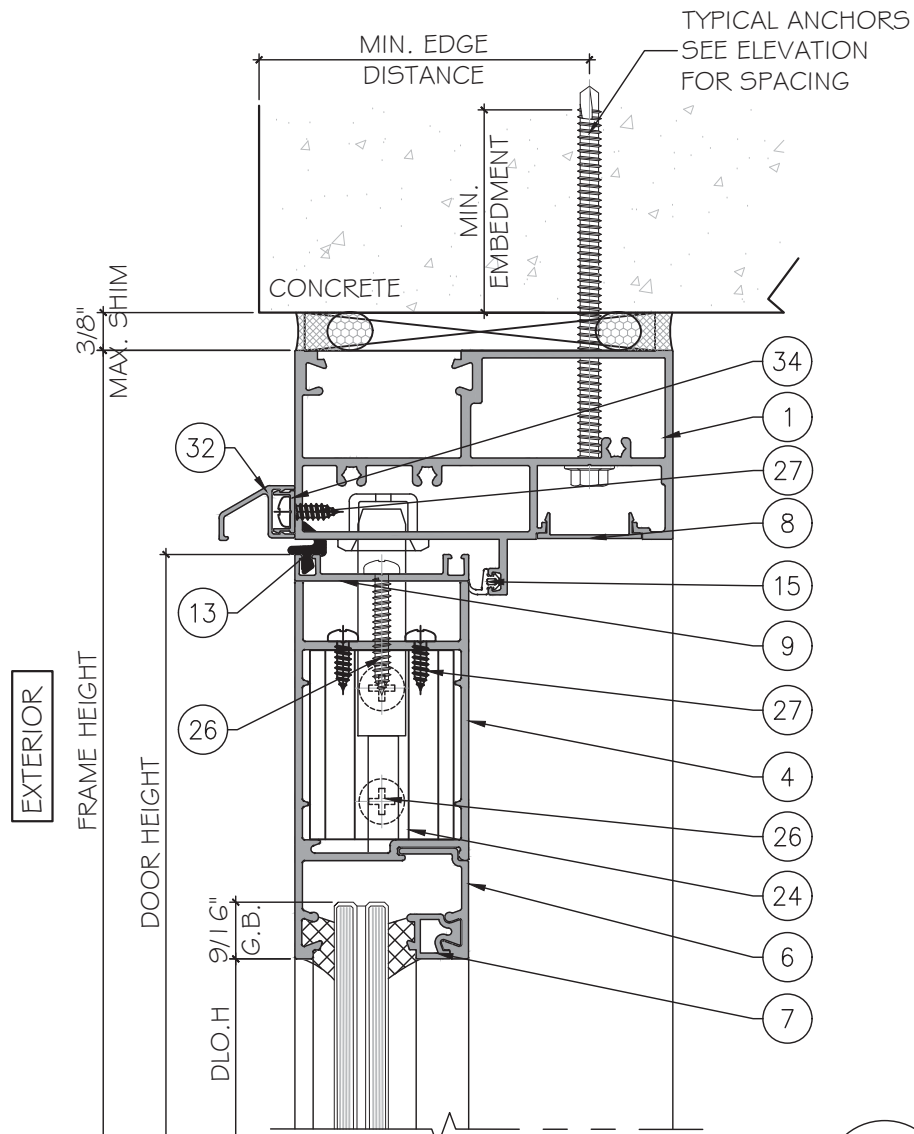


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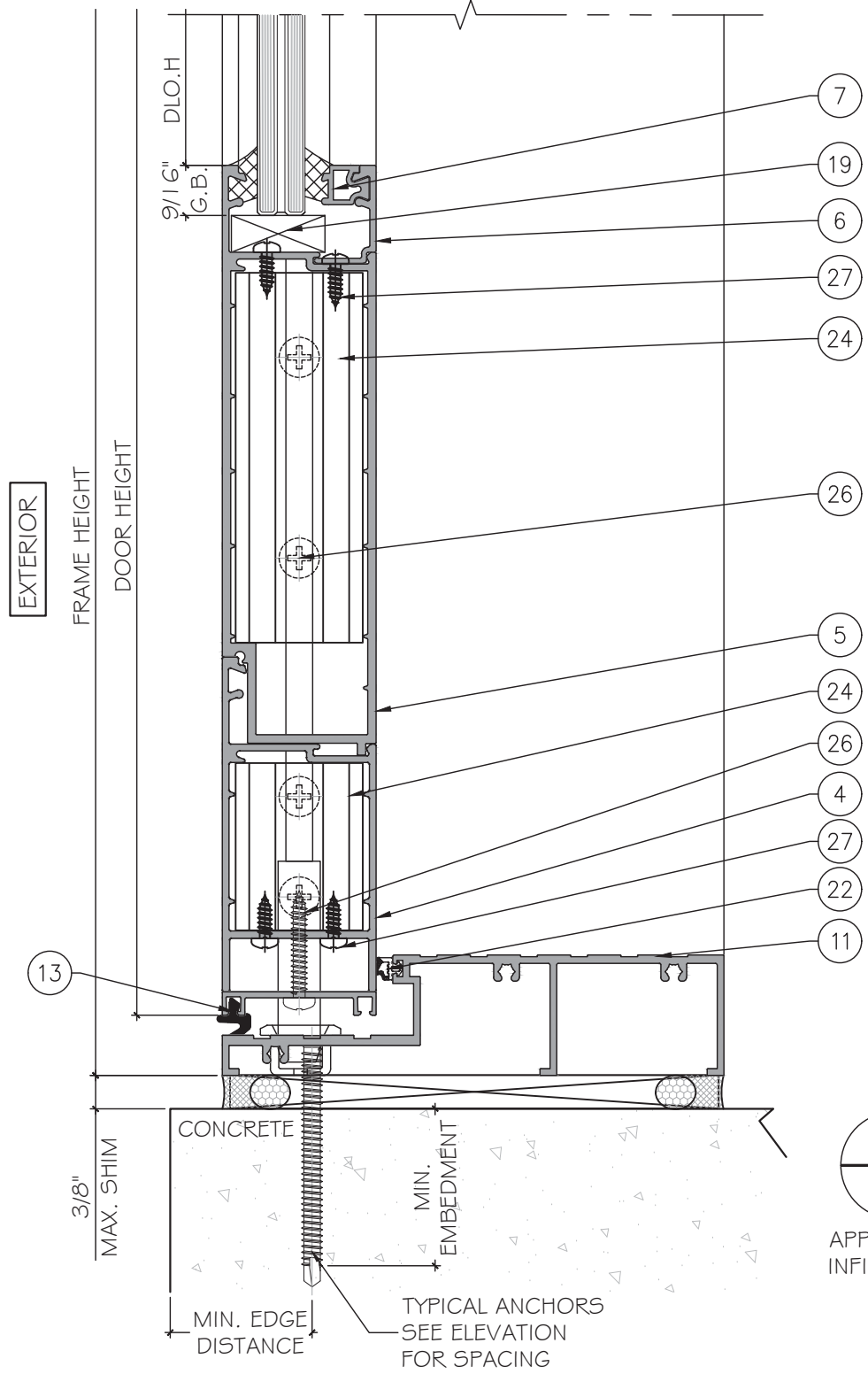
FLORIDA APPROVAL:
FL 42342







1
D4
DETAIL
APPROVED FOR WATER INFILTRATION



2
D4
DETAIL
APPROVED FOR WATER INFILTRATION

FLORIDA APPROVAL:
FL 42342

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
August 18th, 2023

EXTERIOR

FRAME HEIGHT

DOOR HEIGHT

9/16" DLO.H

G.B.

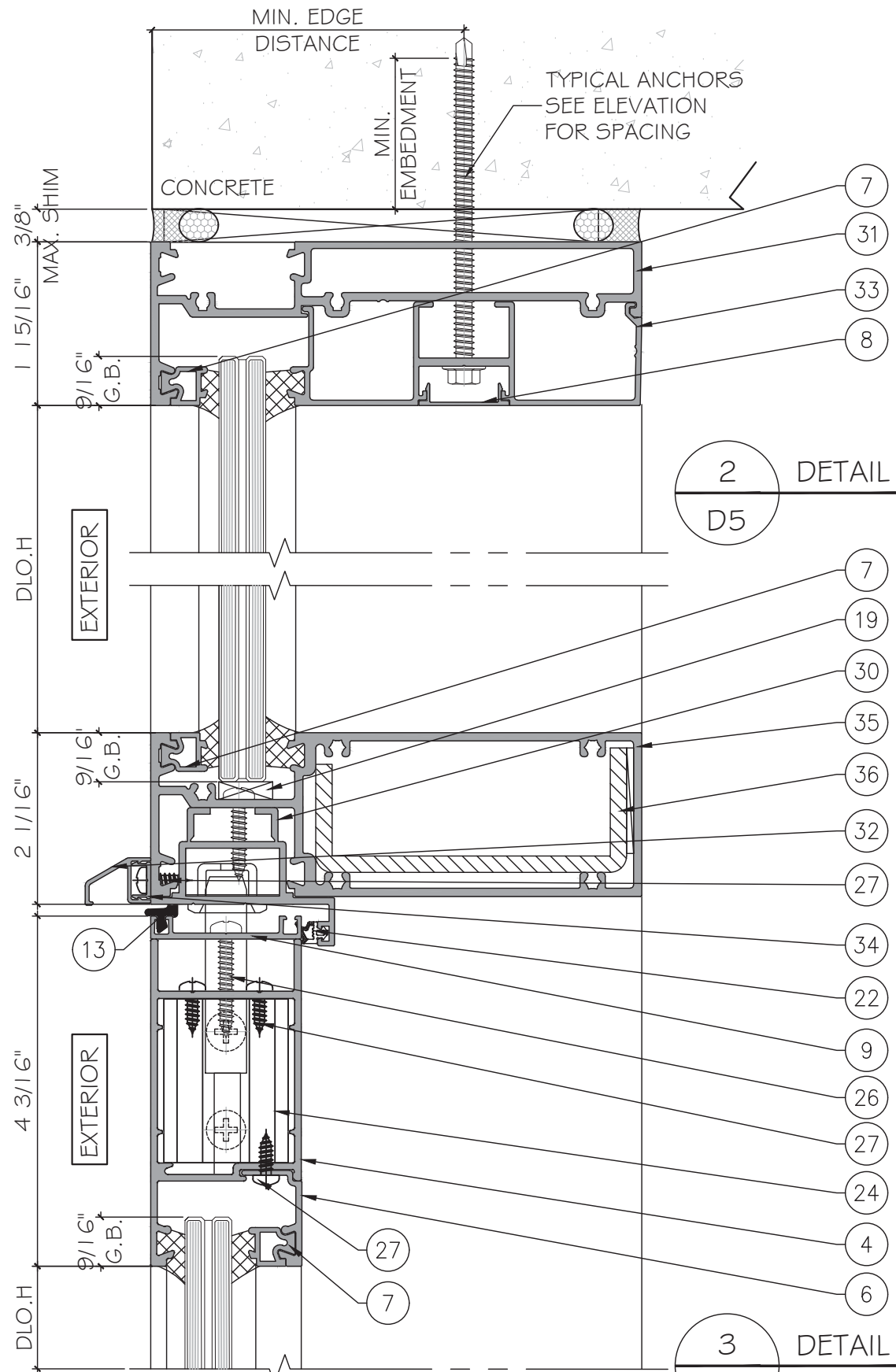
MIN. EMBEDMENT
MIN. EDGE DISTANCE

TYPICAL ANCHORS
SEE ELEVATION
FOR SPACING

CONCRETE

1
D5
DETAIL

ADA COMPLIANT THRESHOLD
NOT APPROVED FOR WATER
INFILTRATION



APPROVED FOR
WATER INFILTRATION
WITH ITEM 32
ATTACHED

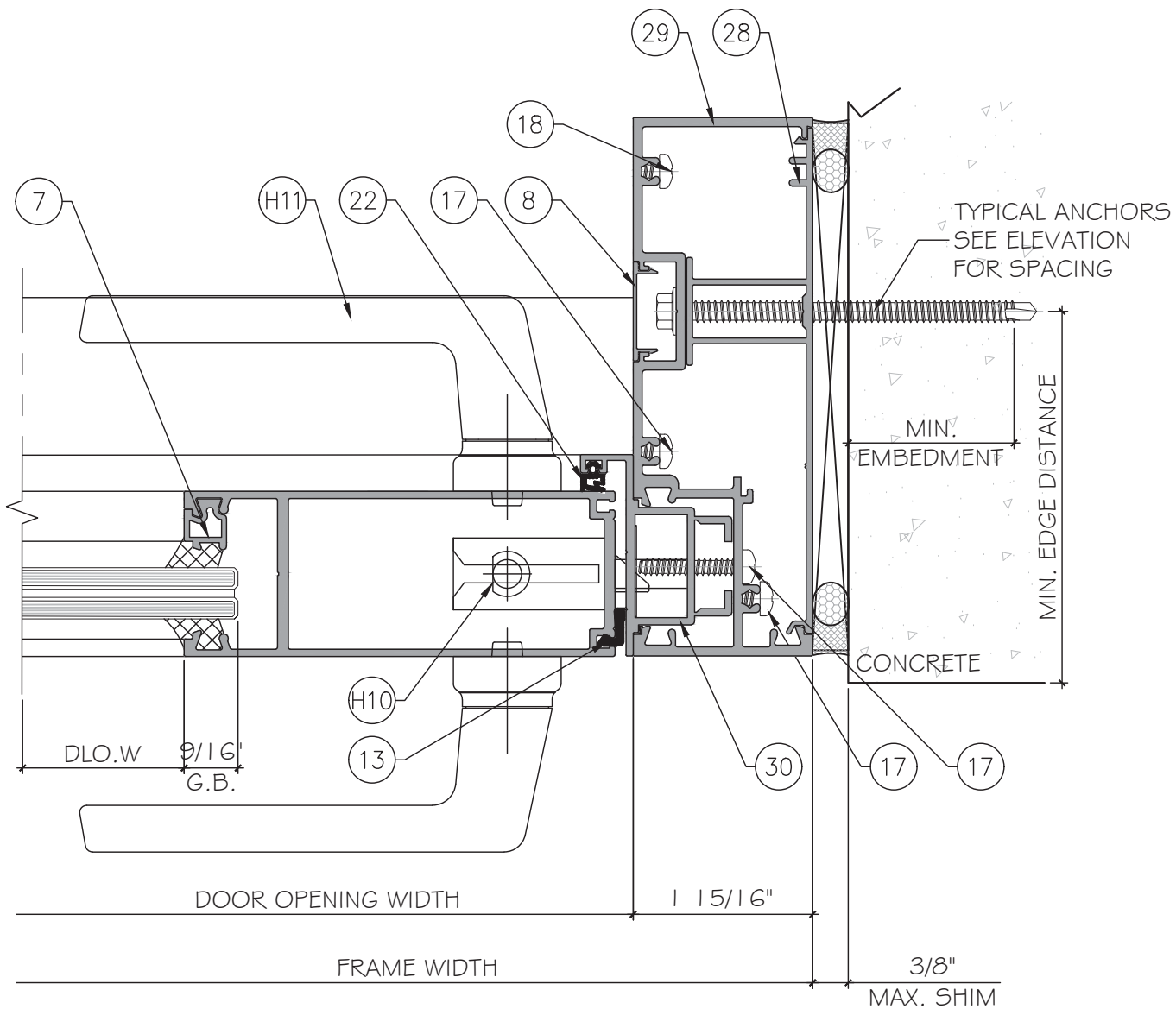
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DRAWING NO. AD23-33				
D5				
Sheet No. 9 OF 14				

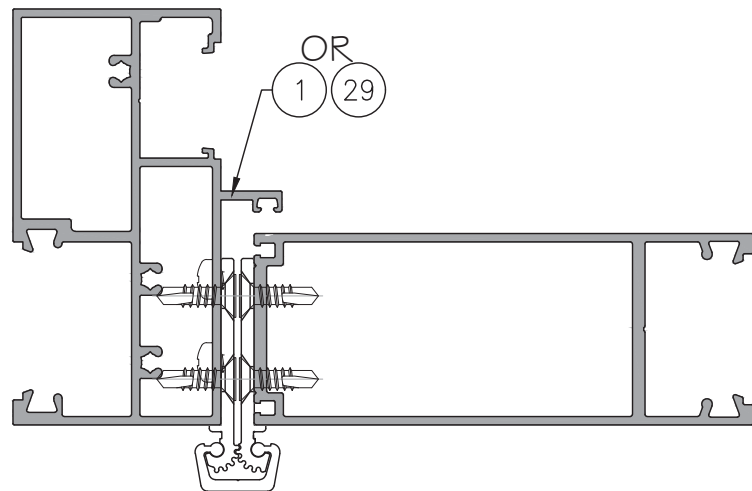


EXTERIOR

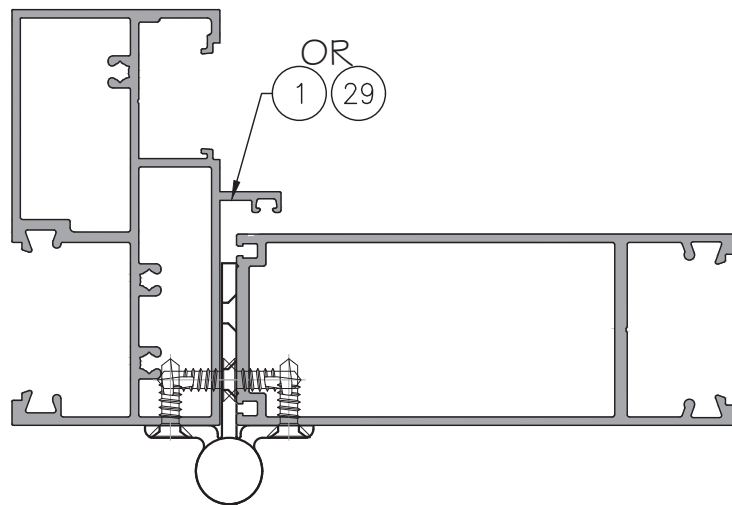
I
D6

DETAIL

HINGE OPTION #1:
YHG004 CONTINUOUS HINGE
FASTENED TO DOOR STILE OR FRAME JAMB WITH #12 X 3/4" FH
S.S. SCREW @8" O.C. IN PAIRS PER SIDE



HINGE OPTION #2:
DH114 FAST HINGE
4 PER LEAF
8" FROM TOP END AND 6.5" FROM BOTTOM END, EQUAL SPACE
FASTENED TO DOOR STILE OR FRAME JAMB WITH (4) #12 X 3/4"
FH S.S. SCREW PER HINGE



FLORIDA APPROVAL:
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YIPING WANG, P.E.
FLORIDA REGISTRATION
P.E. # 43583
C.A.N. 28677

August 18th, 2023

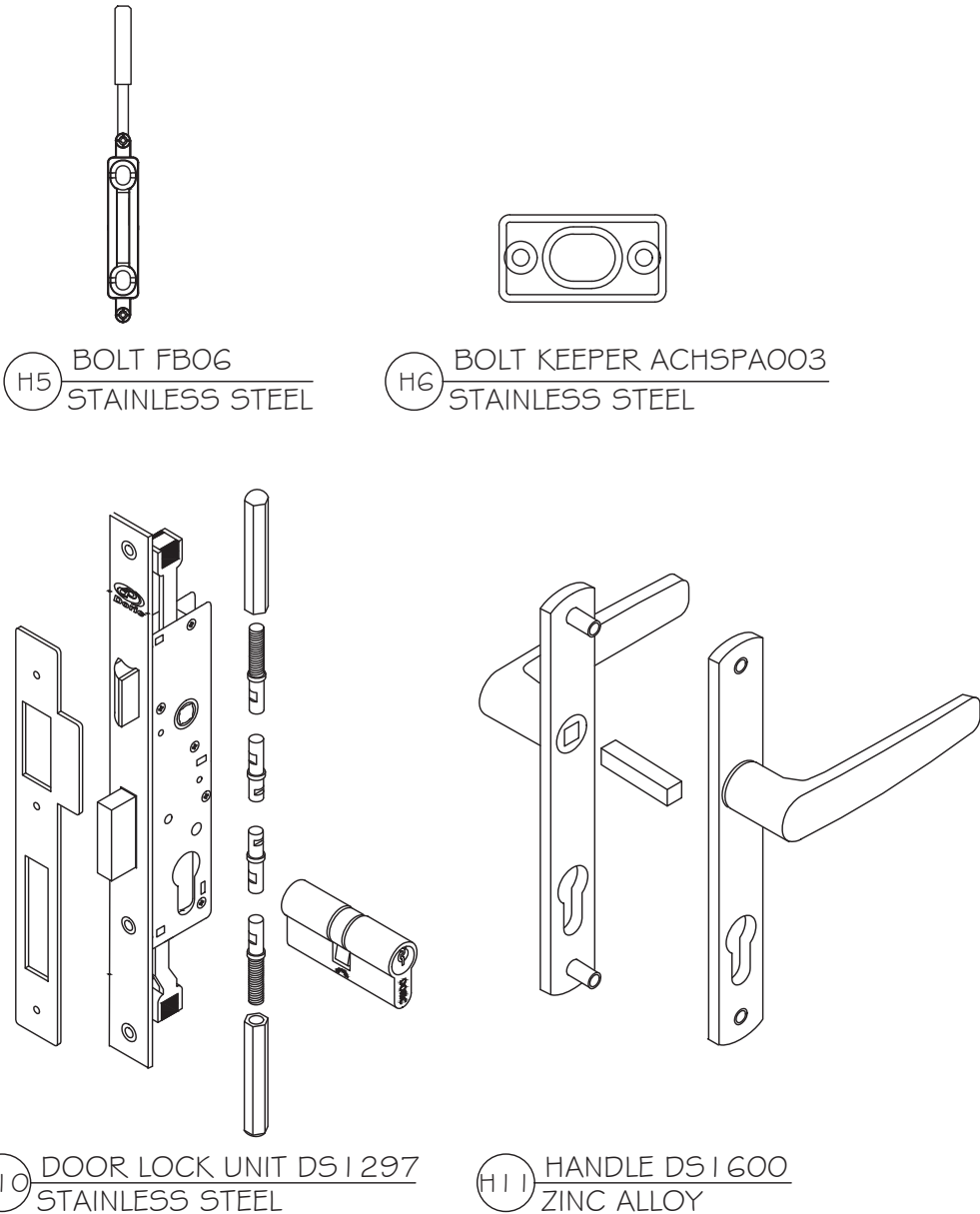
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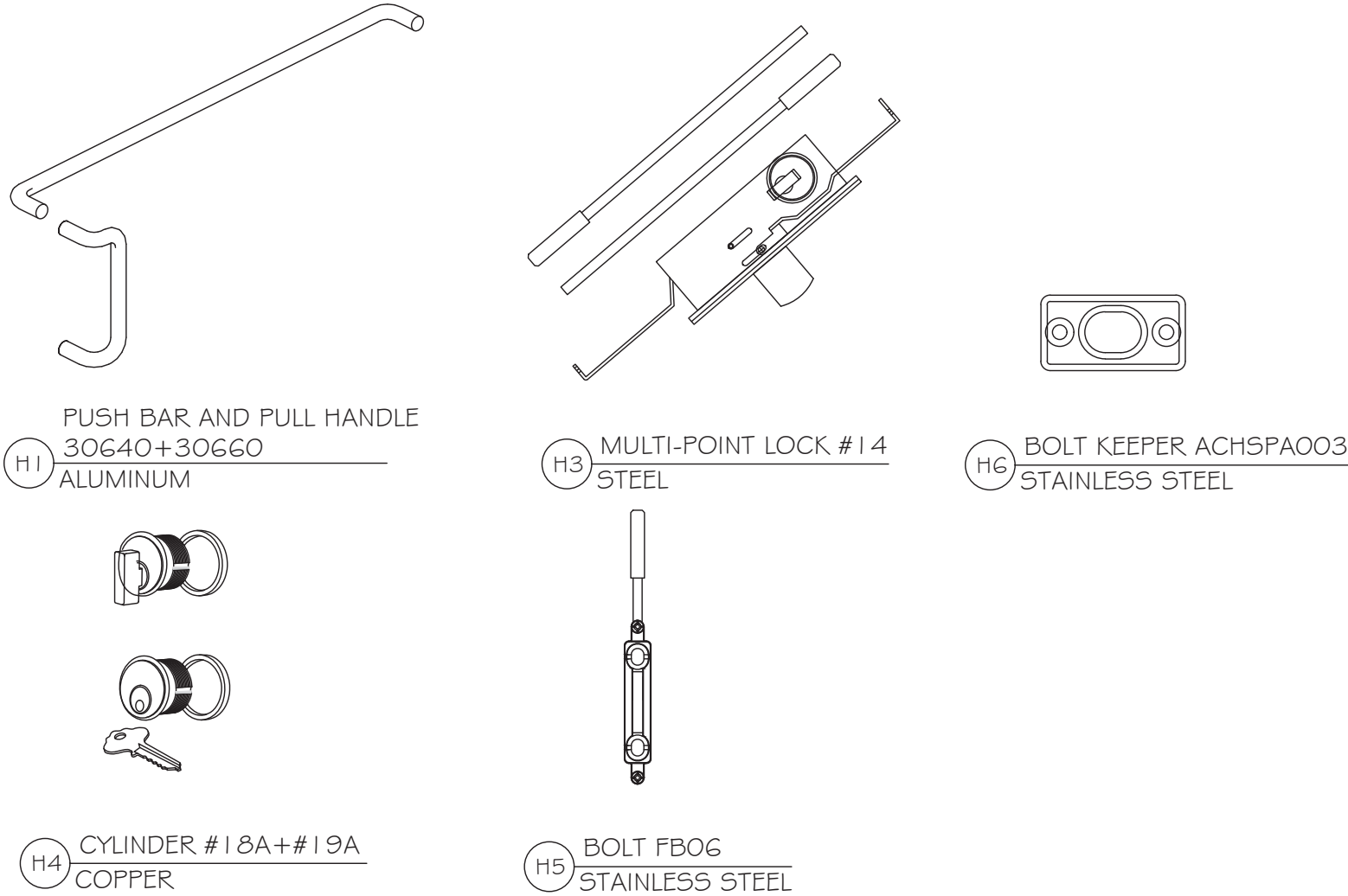
Drawn Date	Drawn By	Date	Rev. No.	Description
08.17.2023	James		01	NEW PRODUCT APPLICATION
DRAWING NO. AD23-33				
D6				
Sheet No. 10 OF 14				

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027 P: 305 271-0117
www.MCYEngineering.com mcy@mcyengineering.com

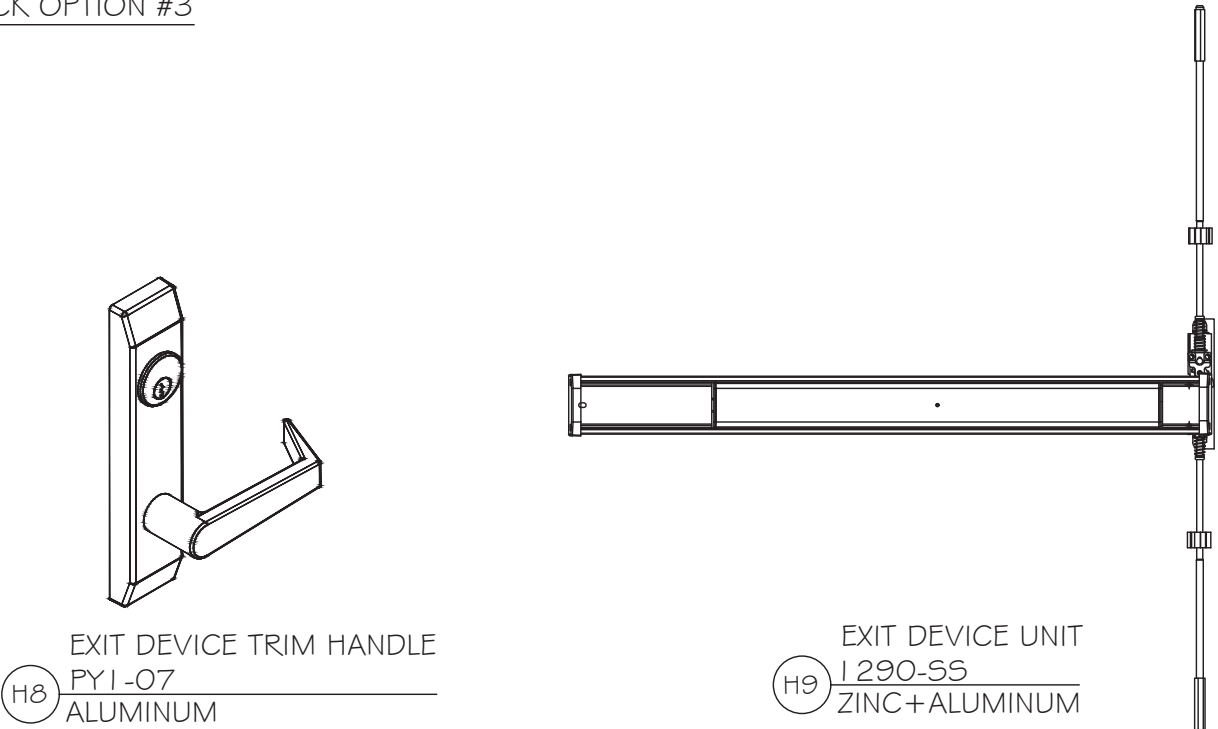
LOCK OPTION #1



LOCK OPTION #2



LOCK OPTION #3



FLORIDA APPROVAL:
FL 42342

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
August 18th, 2023

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SPA150 ALUMINUM OUTSWING FRENCH DOOR - L.M.I.

Do it impact, inc.
7501 East Adamo Drive
Tampa, Florida 33619
P: 321 946 5816 email: info@dotimpact.com

Rev. No.	Date	Drawn By	Description
01	08.17.2023	James	NEW PRODUCT APPLICATION

DRAWING NO.
AD23-33

HARDWARE

Sheet No.
11 OF 14

1 FRAME SPA10168
ALUM.6063-T5

2 DOOR SILL SPA10049
ALUM.6063-T5

3 DOOR STILE SPA10014A
ALUM.6063-T5

4 DOOR RAIL YYS048
ALUM.6063-T5

6 GLASS STOP YYS050
ALUM.6063-T5

8 COVER SPA13006
ALUM.6063-T5

9 DOOR SILL ADAPTOR SPA10108A
ALUM.6063-T5

10 DOOR SILL SBW002
ALUM.6063-T5

12 BOLT HOLDER SPA10109A
ALUM.6063-T5

23 MEETING STILE ADAPTOR SPA10081
ALUM.6063-T5

11 DOOR SILL SPA15049
ALUM.6063-T5

30 DOOR ADAPTOR SPA10031A
ALUM.6063-T5

24 CORNER SHEAR CLIP YYS046
ALUM.6063-T5

5 BOTTOM RAIL EXTENSION SPA10159
ALUM.6063-T5

32 CORNICE JNSP10006
ALUM.6063-T5

31 HEAD&SILL FRAME SPA15004
ALUM.6063-T5

33 GLASS STOP SPA15015
ALUM.6063-T5

34 CLIP JNSP10005
ALUM.6063-T5

28 JAMB FILLER SPA15007A
ALUM.6063-T5

35 MULLION SPA15041
ALUM.6063-T5

36 REINFORCING BAR
STEEL

29 FRAME SPA15001A
ALUM.6063-T5

SPA150 ALUMINUM OUTSWING FRENCH DOOR - L.M.I.

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Drawn Date
08.17.2023

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DRAWING NO.
AD23-33

PART

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12 OF 14

FLORIDA APPROVAL:
FL 42342

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
O.A.N. 28677

August 18th, 2023

BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	MANUFACTURE
1	SPA10168	JAMB	ALUM. 6063-T5	-
2	SPA10049	DOOR SILL	ALUM. 6063-T5	-
3	SPA10014A	DOOR STILE	ALUM. 6063-T5	-
4	YYS048	DOOR RAIL	ALUM. 6063-T5	-
5	SPA10159	BOTTOM RAIL EXTENSION	ALUM. 6063-T5	-
6	YYS050	GLASS STOP	ALUM. 6063-T5	-
7	SPA10016	LAM. GLASS POCKET	ALUM. 6063-T5	-
8	SPA13006	COVER	ALUM. 6063-T5	-
9	SPA10108A	DOOR SILL ADAPTOR	ALUM. 6063-T5	-
10	SBW002	DOOR SILL	ALUM. 6063-T5	-
11	SPA15049	DOOR SILL	ALUM. 6063-T5	-
12	SPA10109A	BOLT HOLDER	ALUM. 6063-T5	-
13	KS525	FOAMING GASKET, ADUROMETER 9±2 SHORE A	FOAM	-
14	-	3.8X17 BRUSH SWEEPS	POLYAMIDE	-
15	SBWG-003	EPDM GASKET, ADUROMETER 70±5 SHORE A	EPDM	-
16	SBWG-26162	EPDM GASKET, ADUROMETER 70±5 SHORE A	EPDM	-
17	-	FRAME ASSEMBLY SCREWS DIA. 3/16" X 1 1/4"	410 STAINLESS STEEL	-
18	-	FRAME ASSEMBLY SCREWS DIA. 3/16" X 2 3/8"	410 STAINLESS STEEL	-
19	-	SETTING BLOCK, 15/32" X 1". ADUROMETER 80±5 SHORE A.	EPDM	-
20	SBWG-031	EPDM GASKET, ADUROMETER 70±5 SHORE A	EPDM	-
21		STRUCTURAL SILICONE DOWSIL 995	SILICONE	DOWSIL
22	SBWG-001	EPDM GASKET, ADUROMETER 70±5 SHORE A	EPDM	-
23	SPA10081	MEETING STILE ADAPTOR	ALUM. 6063-T5	-
24	YYS046	CORNER SHEAR CLIP	ALUM. 6063-T5	-
25	-	HINGE ASSEMBLY SCREW DIA.#12" X 3/4"	STEEL	-
26	-	FRAME ASSEMBLY SCREWS DIA. 1/4" X 1 1/2"	410 STAINLESS STEEL	-
27	-	FRAME ASSEMBLY SCREWS DIA. #8" X 1/2"	410 STAINLESS STEEL	-
28	SPA15007A	JAMB FILLER	ALUM. 6063-T5	-
29	SPA15001A	FRAME	ALUM. 6063-T5	-
30	SPA10031A	DOOR ADAPTOR	ALUM. 6063-T5	-
31	SPA15004	HEAD&SILL FRAME	ALUM. 6063-T5	-
32	JNSP10006	CORNICE	ALUM. 6063-T5	-
33	SPA15015	GLASS STOP	ALUM. 6063-T5	-
34	JNSP10005	CLIP	ALUM. 6063-T5	-
35	SPA15041	MULLION	ALUM. 6063-T5	-
36		REINFORCING BAR	STEEL	-
H1	-	PUSH BAR AND PULL HANDLE 30640 + 30660	ALUMINUM	BAODUN
H2	DH114	FAST HINGE	ALUMINUM	DORIC
H3	#014	MULTI-POINT LOCK	STEEL	DNW
H4	#18A + #19A	CLYINDER	COPPER	DNW
H5	FBO6	BOLT	STAINLESS STEEL	SINONE
H6	ACHSPA003	BOLT KEEPER	STAINLESS STEEL	SINONE
H7	YHG004	CONTINUOUS HINGE	ALUMINUM	YOTI
H8	PY1-07	EXIT DEVICE TRIM HANDLE	ALUMINUM	JANDY
H9	I290-SS	EXIT DEVICE UNIT	ZINC ALUMINUM	SINONE
H10	DS1297	DOOR LOCK UNIT	STAINLESS STEEL	DORIC
H11	DS1600	HANDLE	ZINC ALLOY	DORIC

FL 42342



~~August 18th, 2023~~

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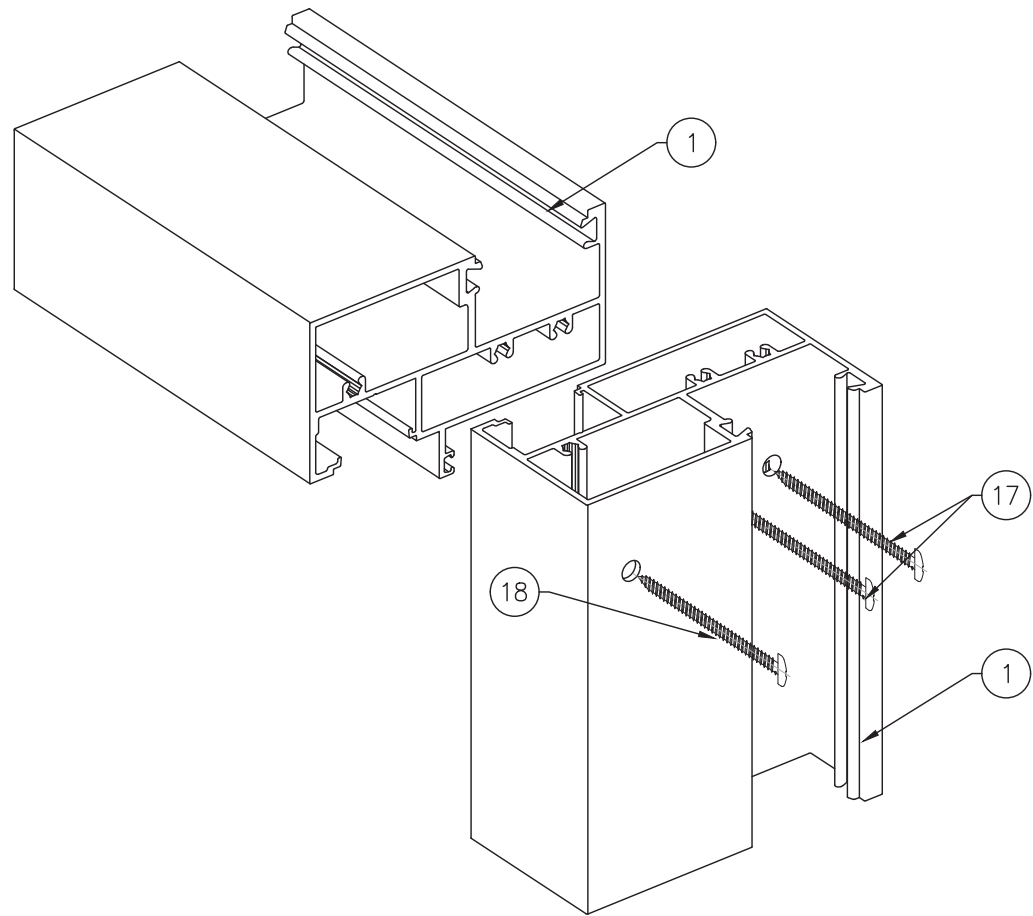
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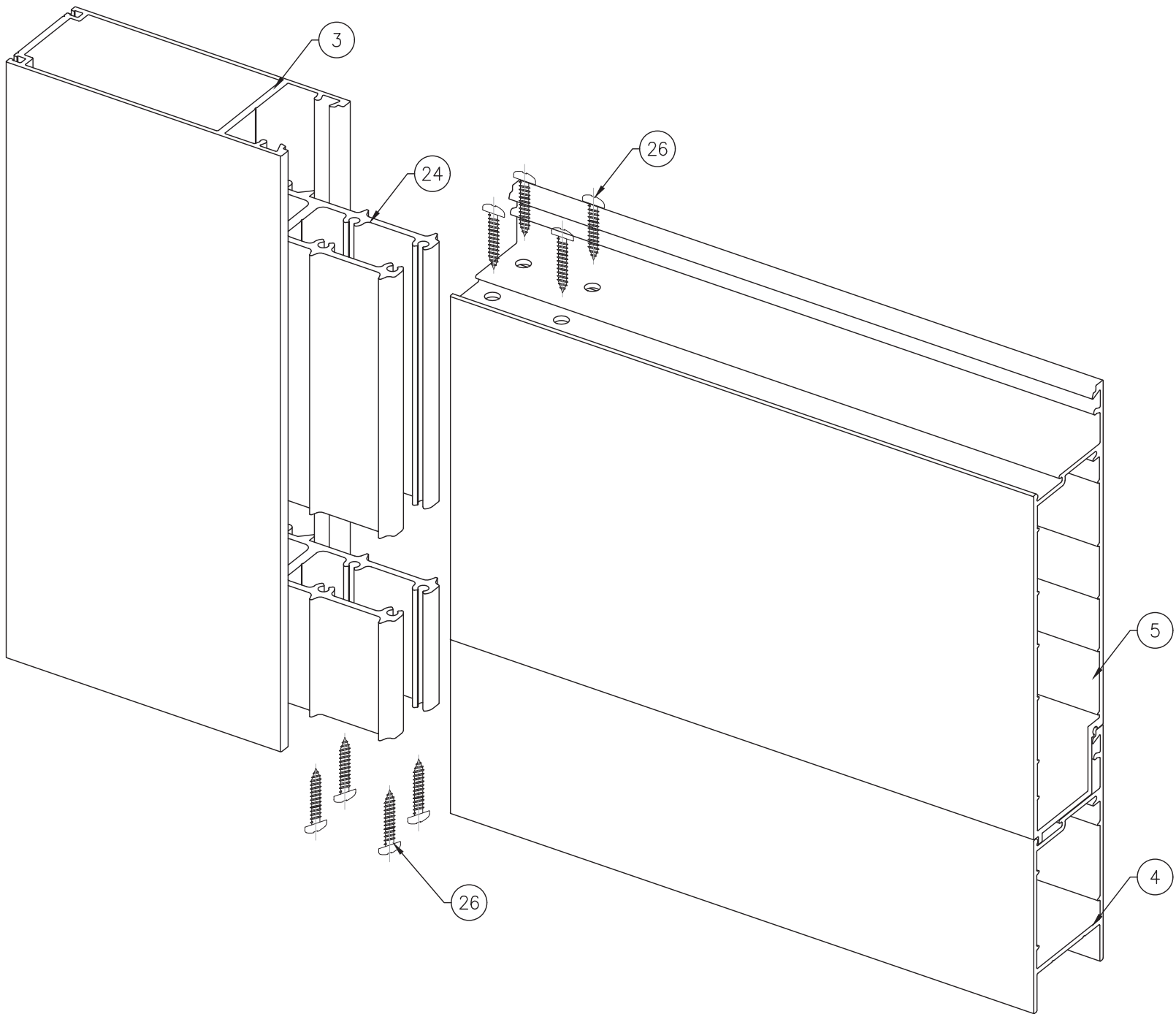
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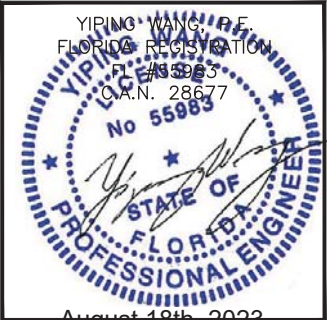


DOOR FRAME ASSEMBLY



DOOR LEAF ASSEMBLY

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Drawn Date 08.17.2023		Drawn By James		NEW PRODUCT APPLICATION	
DRAWING NO. AD23-33		Date 08.17.2023		Description	
ASSEMBLY		Rev. No. 01			
Sheet No. 14 OF 14					

SPA150 ALUMINUM OUTSWING FRENCH DOOR - L.M.I.

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