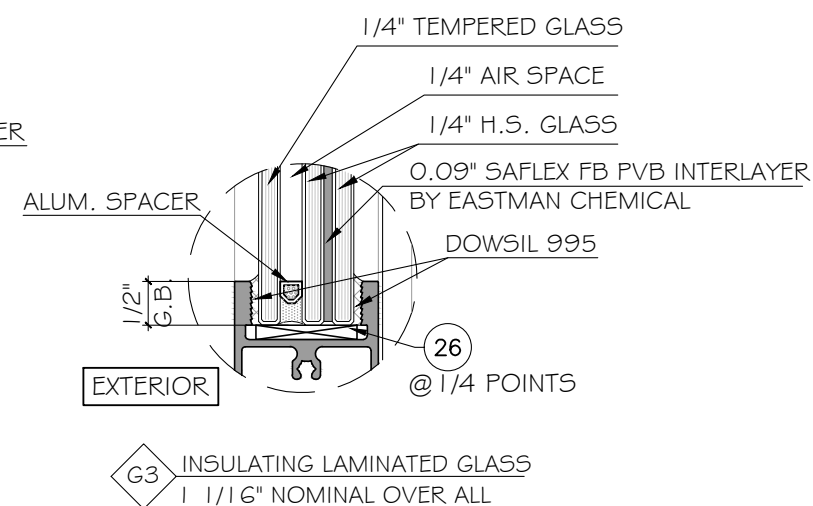


MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027 P: 305 271-0117
www.MCYEngineering.com mcy@mcyengineering.com

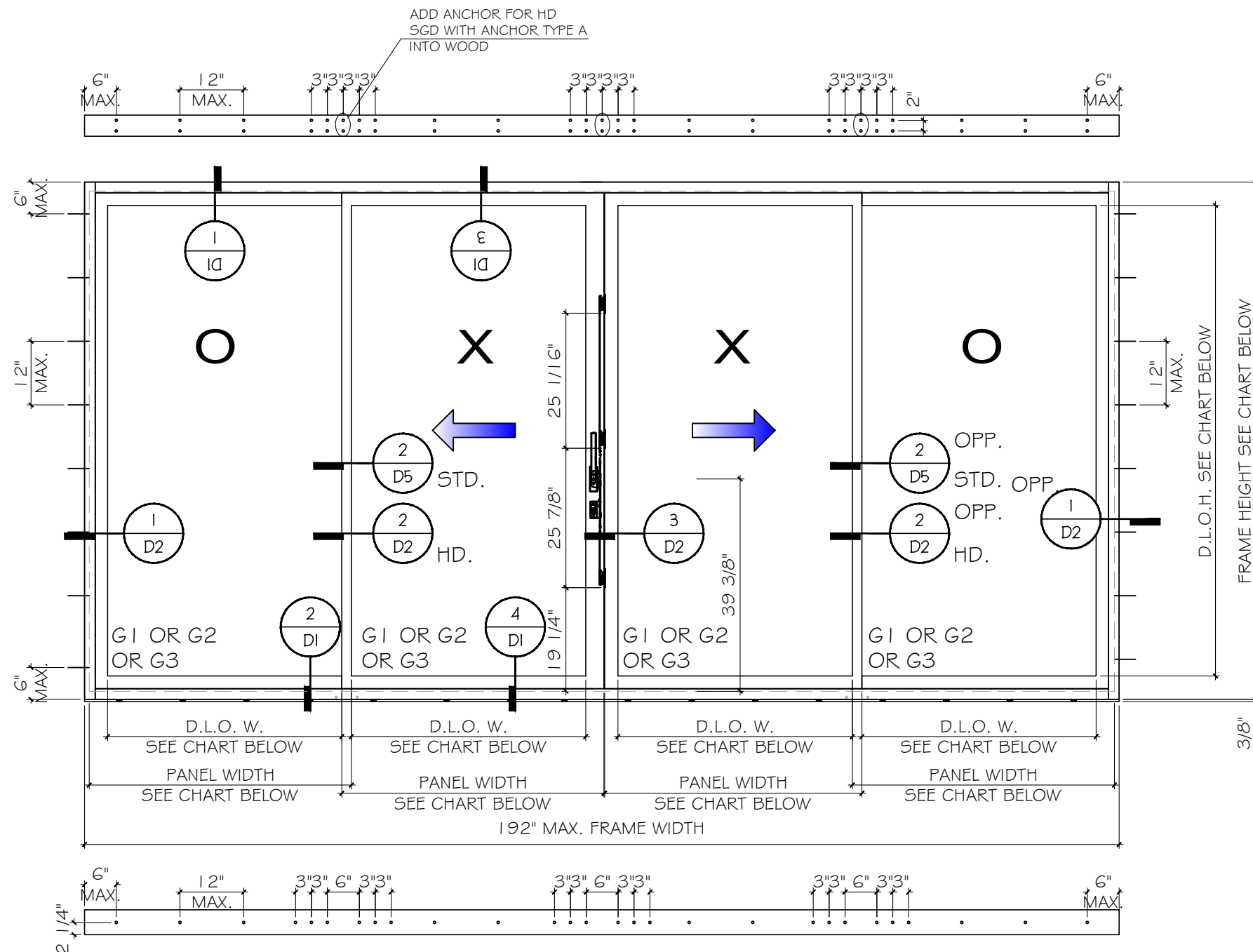


ABBREVIATIONS AND SYMBOLS	
D.L.O. - DAYLITE OPENING	
F.H. - FRAME HEIGHT	
F.W. - FRAME WIDTH	
W/ - WITH	
W/O - WITHOUT	
O.C. - ON CENTER	

SERIES SPA100 AND SPA150 SLIDING GLASS DOOR - L.M.I

SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD
LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA
Shanghai, China
TEL.86 021-5822 0630 CELL.86 135-8572-3609

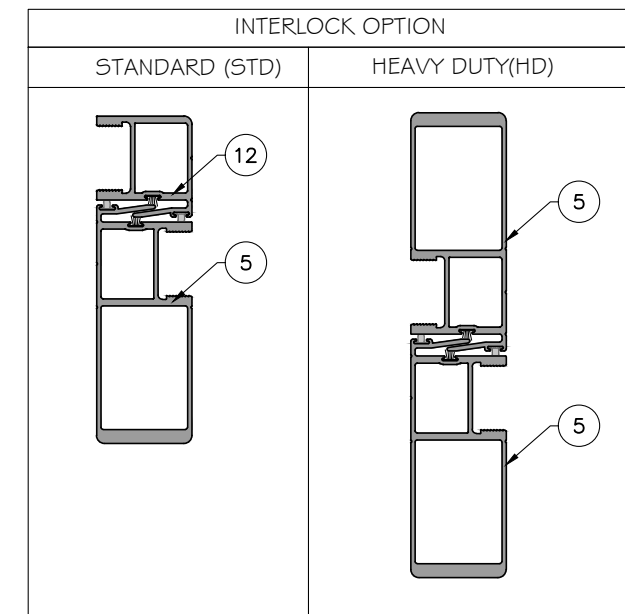
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SERIES SPA100 TYPICAL EXTERIOR ELEVATIONS
TWO TRACK OXO

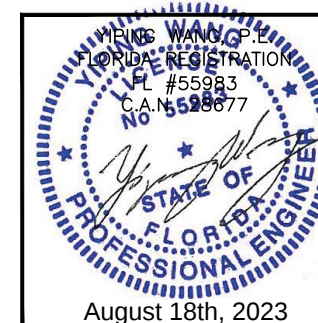
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	PANEL WIDTH MAX.	FRAME HEIGHT MAX.	D.L.O.W. MAX.	D.L.O.H. MAX.		EXT. (+)	INT. (-)	
	IN.	IN.	IN.	IN.				
G1	48 5/8"	96"	43 1/2"	87 3/8"	HD	90	110	#1 & #2
G1,G2,G3	48 5/8"	96"	43 1/2"	87 3/8"	STD	65	65	#3
G3	48 5/8"	108"	43 1/2"	99 3/8"	HD	65	65	#1

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

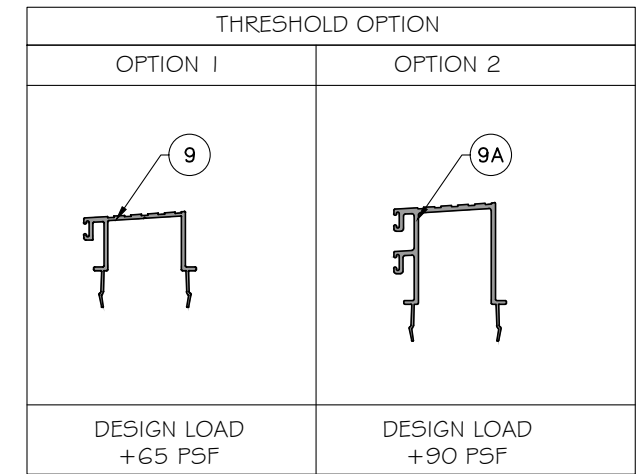


THRESHOLD OPTION	
OPTION 1	OPTION 2
DESIGN LOAD +65 PSF	DESIGN LOAD +90 PSF

FLORIDA APPROVAL:
FL # 41360

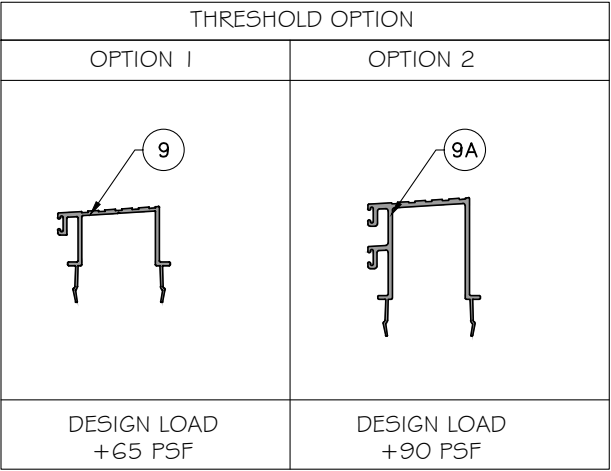


Rev. No.	Date	Drawn By	Description
02	08.17.2023	James	FBC 2023
01	03.07.2022	James	NEW PRODUCT APPLICATION
Drawing Date 08.17.2023		Drawing No. AD22-05	
Sheet No. 2 OF 15		E1	

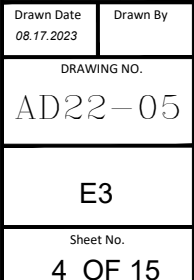




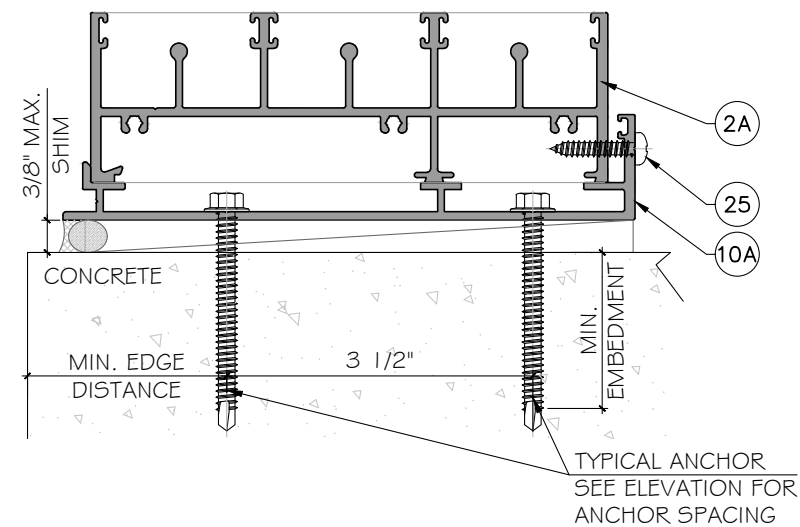
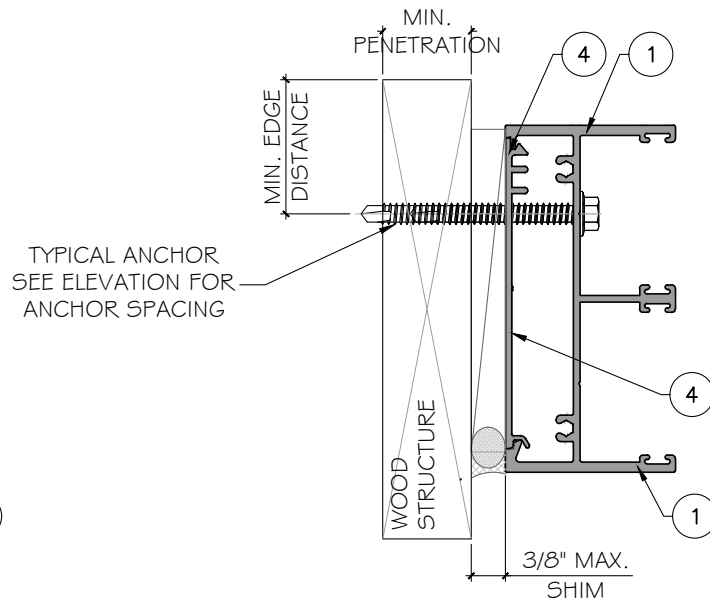
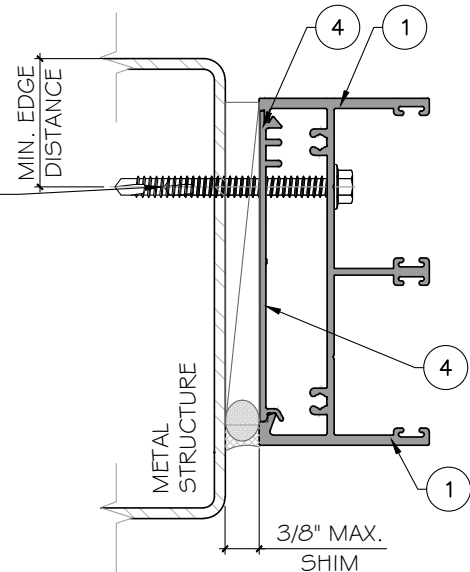
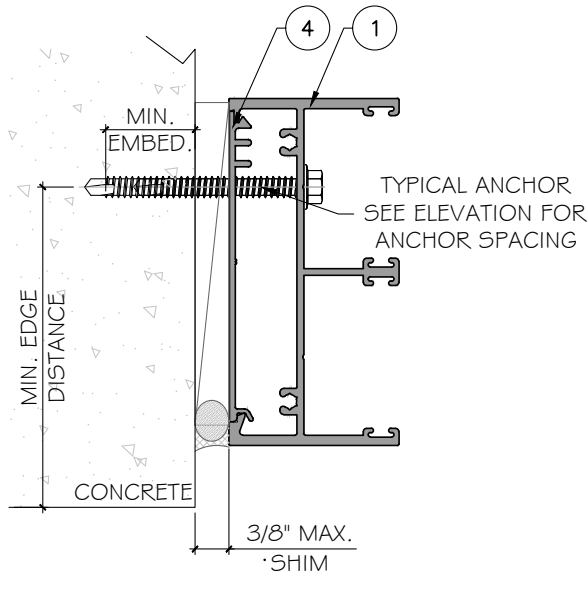
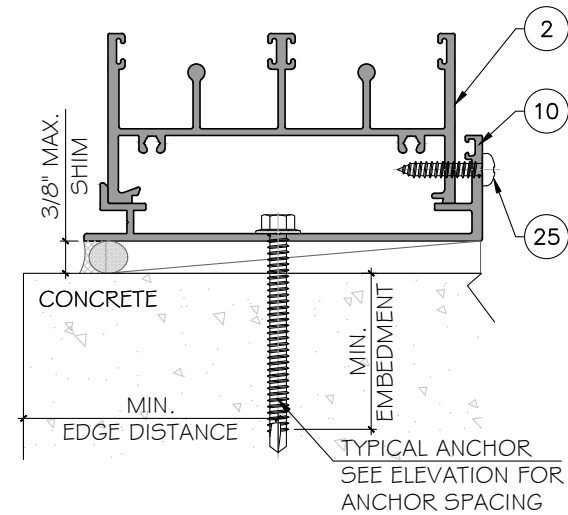
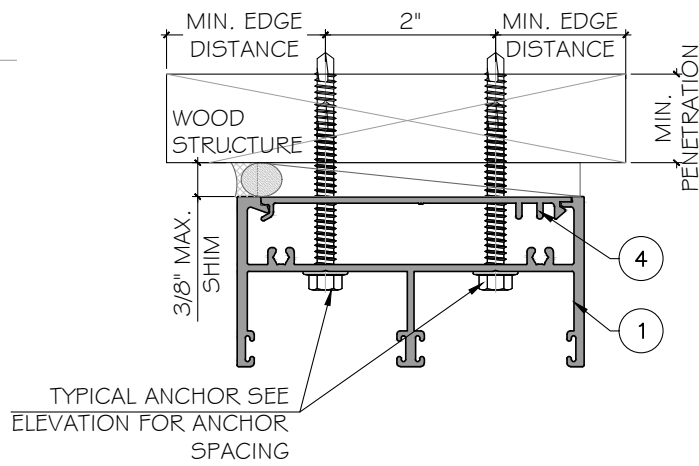
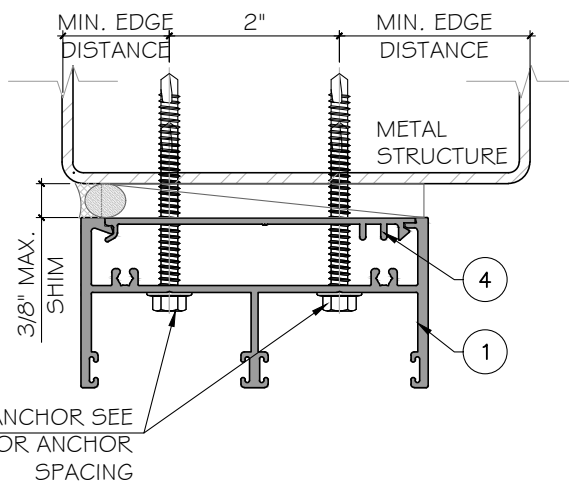
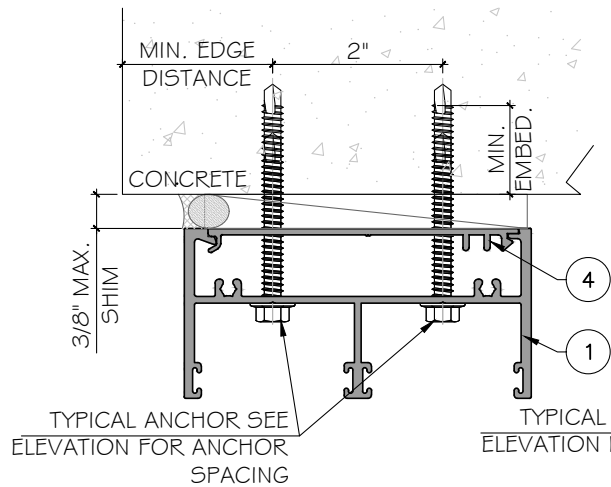
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FLORIDA APPROVAL:
FL # 41360



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www.MCYEngineering.com mcy@mcyengineering.com



TYPICAL ANCHOR TYPES:
SEE ELEVATIONS FOR SPACING

TYPE "A": 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$)
THRU 1 BY OR 2 BY WOOD BUCKS INTO CONCRETE
WITH 1 1/2" MIN. PENETRATION INTO WOOD
OR THRU WOOD INTO MASONRY

TYPE "B": 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$)
DIRECTLY INTO CONCRETE ($f'_c = 3000 \text{ PSI MIN.}$)
WITH 1 3/4" MIN. EMBED
DIRECTLY INTO HOLLOW BLOCK (JAMB ONLY)
WITH 1 1/4" MIN. EMBED.

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

TYPE "C": 1/4" TEKS SELF DRILLING SCREW (GRADE 5) ($F_u = 120 \text{ KSI}$, $F_y = 90 \text{ KSI}$)
INTO APPROVED MULLIONS
INTO METAL STRUCTURE
STEEL: 12 GA. MIN. ($F_y = 36 \text{ KSI MIN.}$)
ALUMINUM: 1/8" THK. MIN. (6063-T6 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PANTED)

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

WOOD SG = 0.55 MIN. (HEAD & JAMB)
CONCRETE $f'_c = 3000 \text{ PSI MIN.}$ (HEAD & SILL & JAMB)
C-90 HOLLOW/FILLED BLOCK $f'_m = 2000 \text{ PSI MIN.}$ (JAMB ONLY)
NORMAL STRENGTH CMU

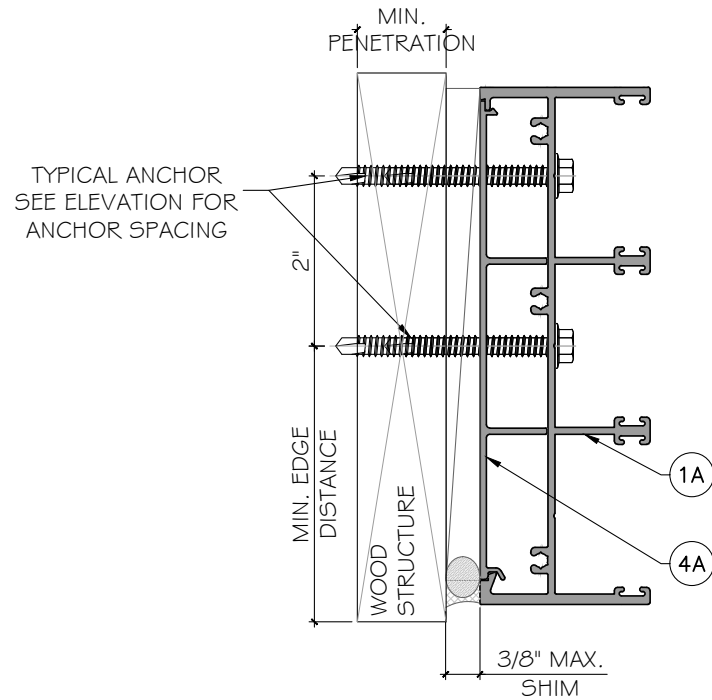
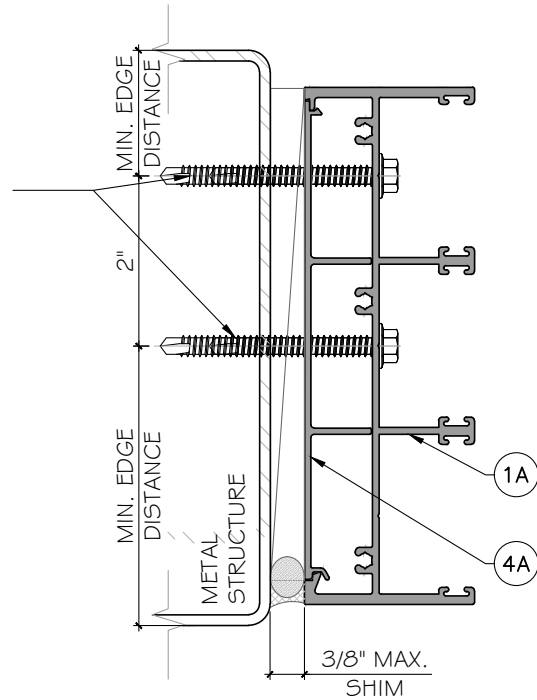
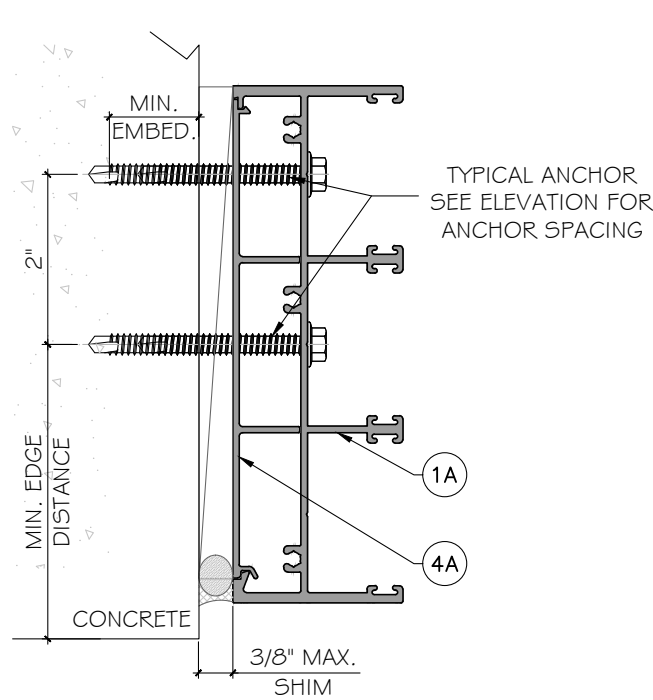
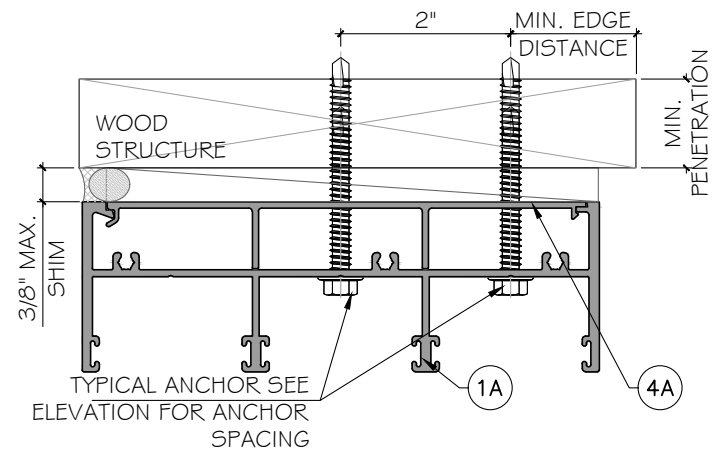
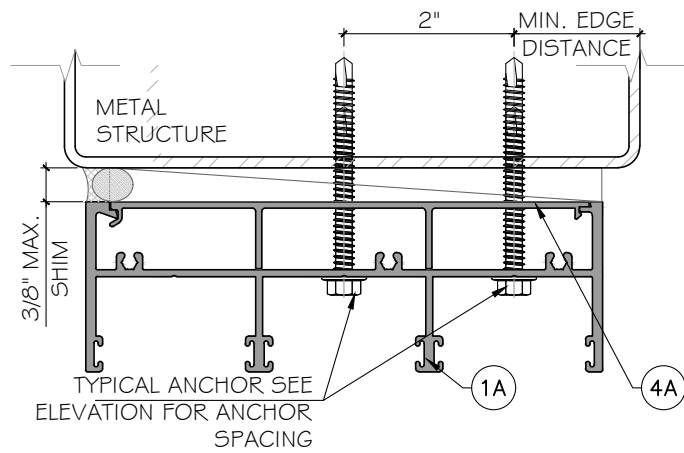
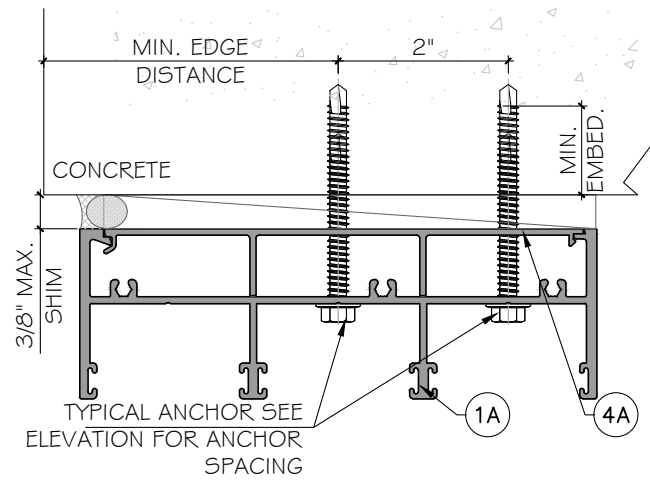
GLAZING BEAD AT FRAME SILL SEALED TO GLASS WITH DOW CORNING 983.
FRAME CORNERS SEALED WITH DOW CORNING 999 OR EQUAL COMPATIBLE

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:
FL # 41360



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TYPICAL ANCHOR TYPES: SEE ELEVATIONS FOR SPACING

TYPE "A": 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE
WITH 1 1/2" MIN. PENETRATION INTO WOOD
OR THRU WOOD INTO MONSORY

TYPE "B": 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
DIRECTLY INTO CONCRETE ($f'_c=3000$ PSI MIN.)
WITH 1 3/4" MIN. EMBED
DIRECTLY INTO HOLLOW BLOCK (JAMB ONLY)
WITH 1 1/4" MIN. EMBED.

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

TYPE "C": 1/4" TEKS SELF DRILLING SCREW(GRADE 5) ($F_u=120$ KSI, $F_y=90$ KSI)
INTO APPROVED MULLIONS
INTO METAL STRUCTURE
STEEL: 12 GA. MIN. ($F_y=36$ KSI MIN.)
ALUMINUM: 1/8" THK. MIN. (6063-T6 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PANTED)

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

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

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

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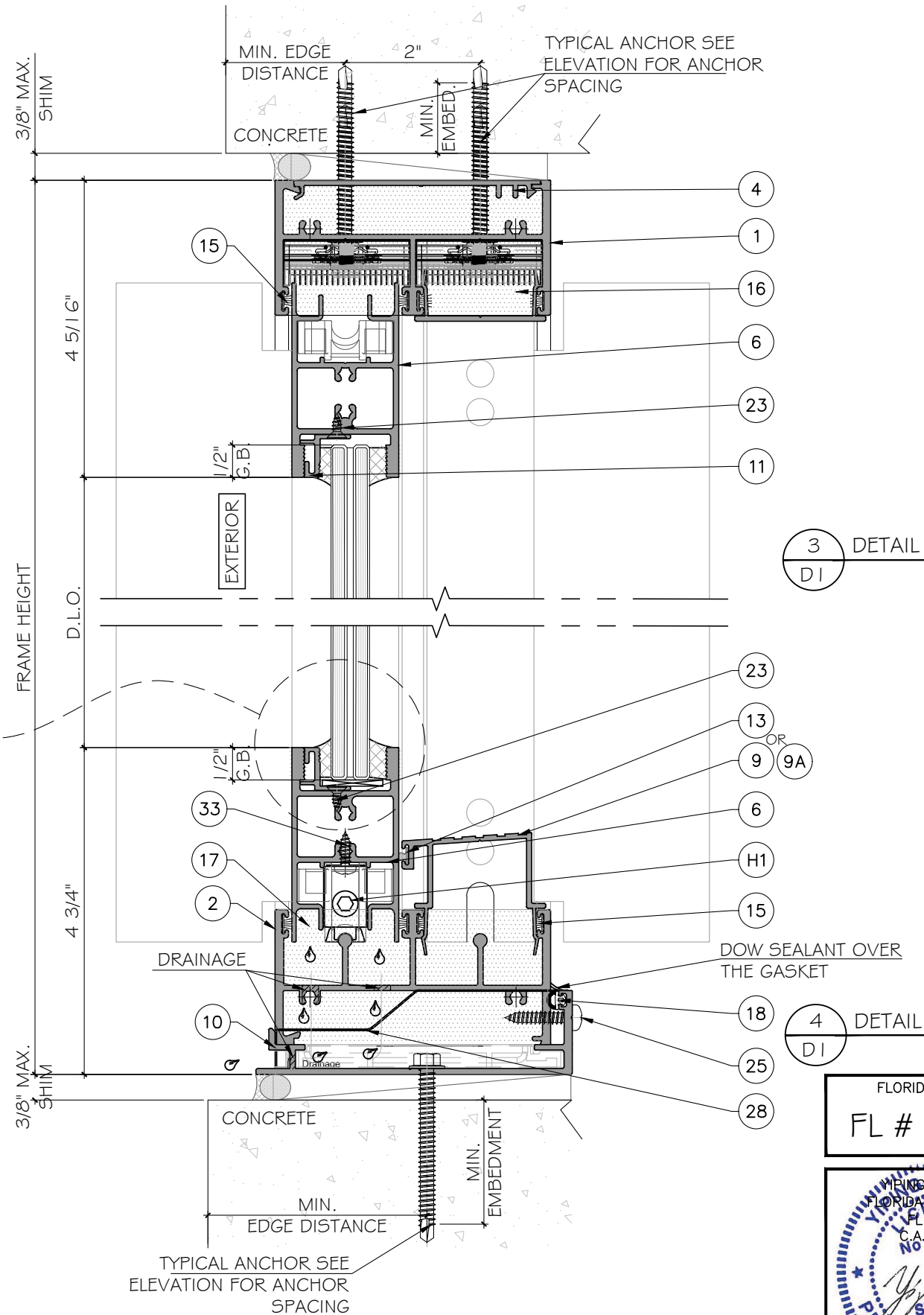
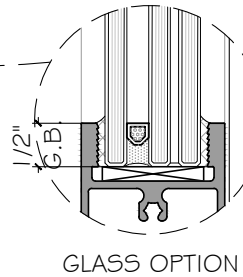
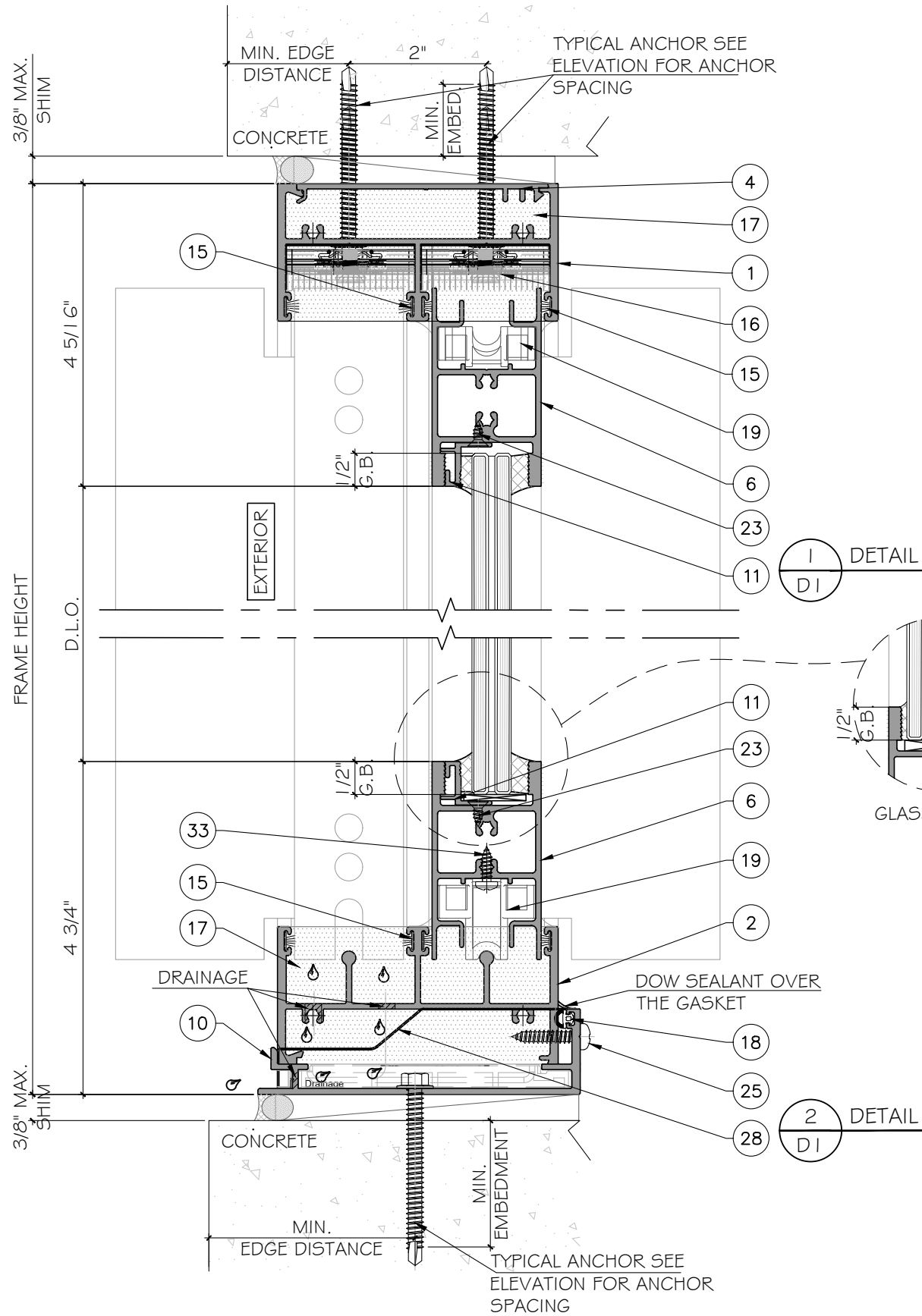
FLORIDA APPROVAL:
FL # 41360

YIN WANG P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 28677
August 18th, 2023

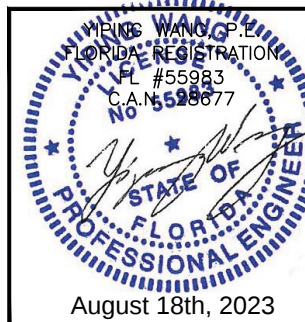
SERIES SPA100 AND SPA150 SLIDING GLASS DOOR - L.M.I.
SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD
LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA
Shanghai, China
TEL.86 021-5822 0630 CELL.86 135-8572-3609

Rev. No.	Date	Drawn By	Description
02	08.17.2023	James	NEW PRODUCT APPLICATION
01	03.07.2022	James	
Drawing Date 08.17.2023		Drawing No. AD22-05	
Sheet No. A2		6 OF 15	

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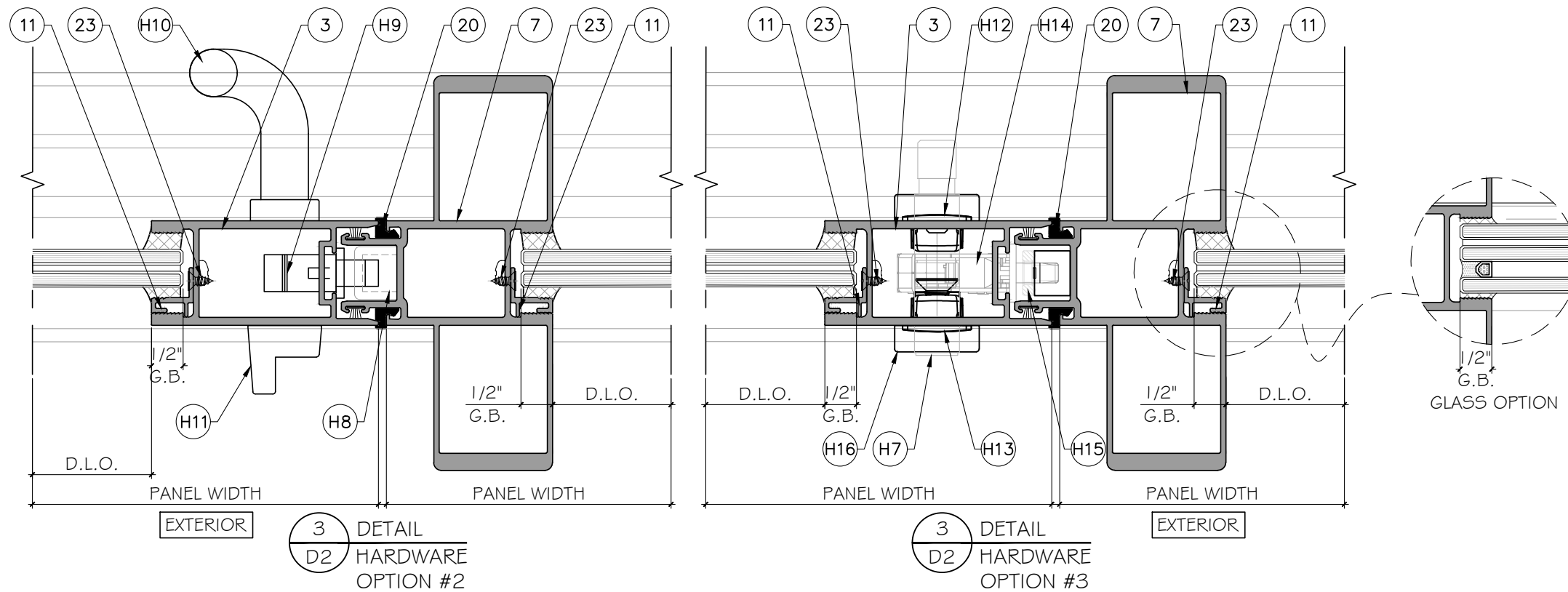
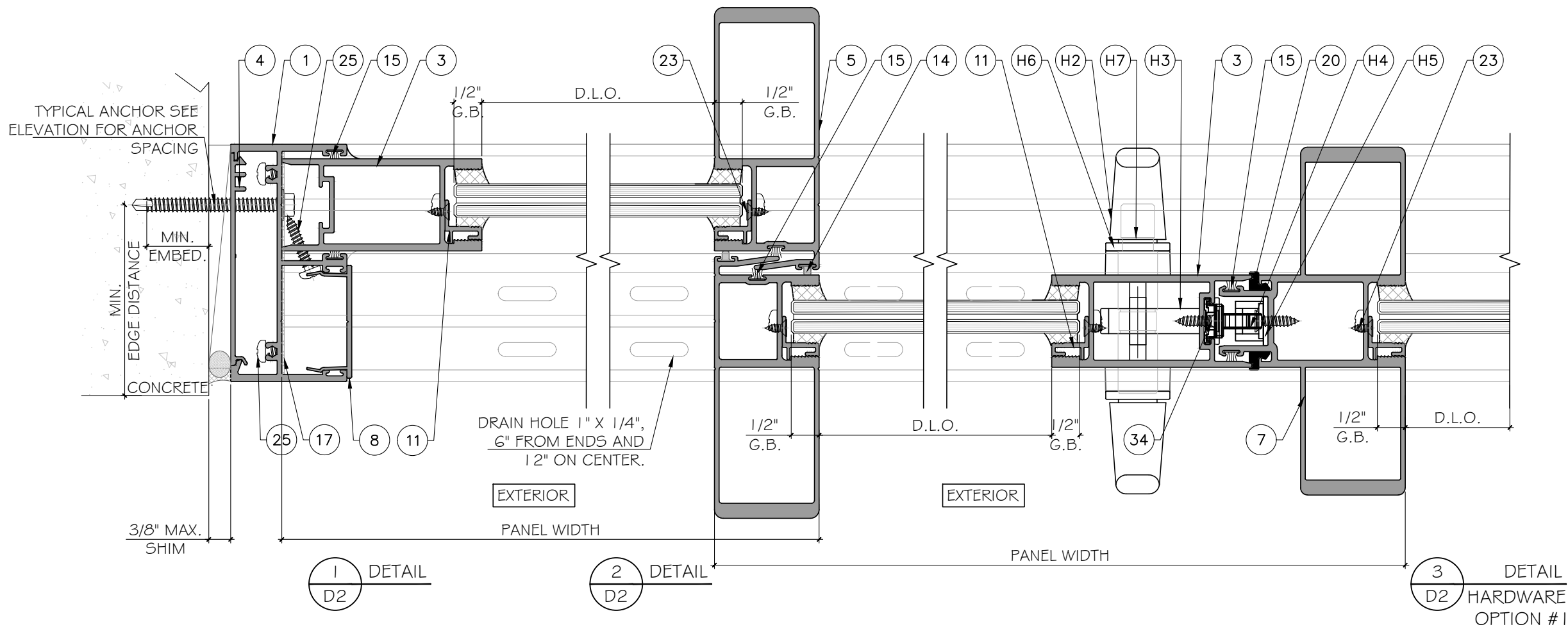


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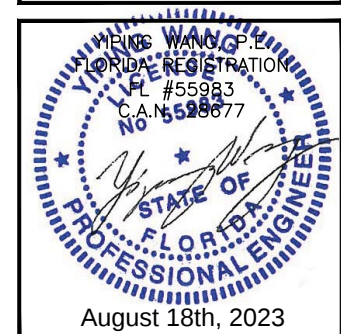
Rev. No.	Date	Drawn By	Description
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01	03.07.2022	James	NEW PRODUCT APPLICATION

Drawn Date 08.17.2023	Drawn By
DRAWING NO. AD22-05	
D1	
Sheet No. 7 OF 15	

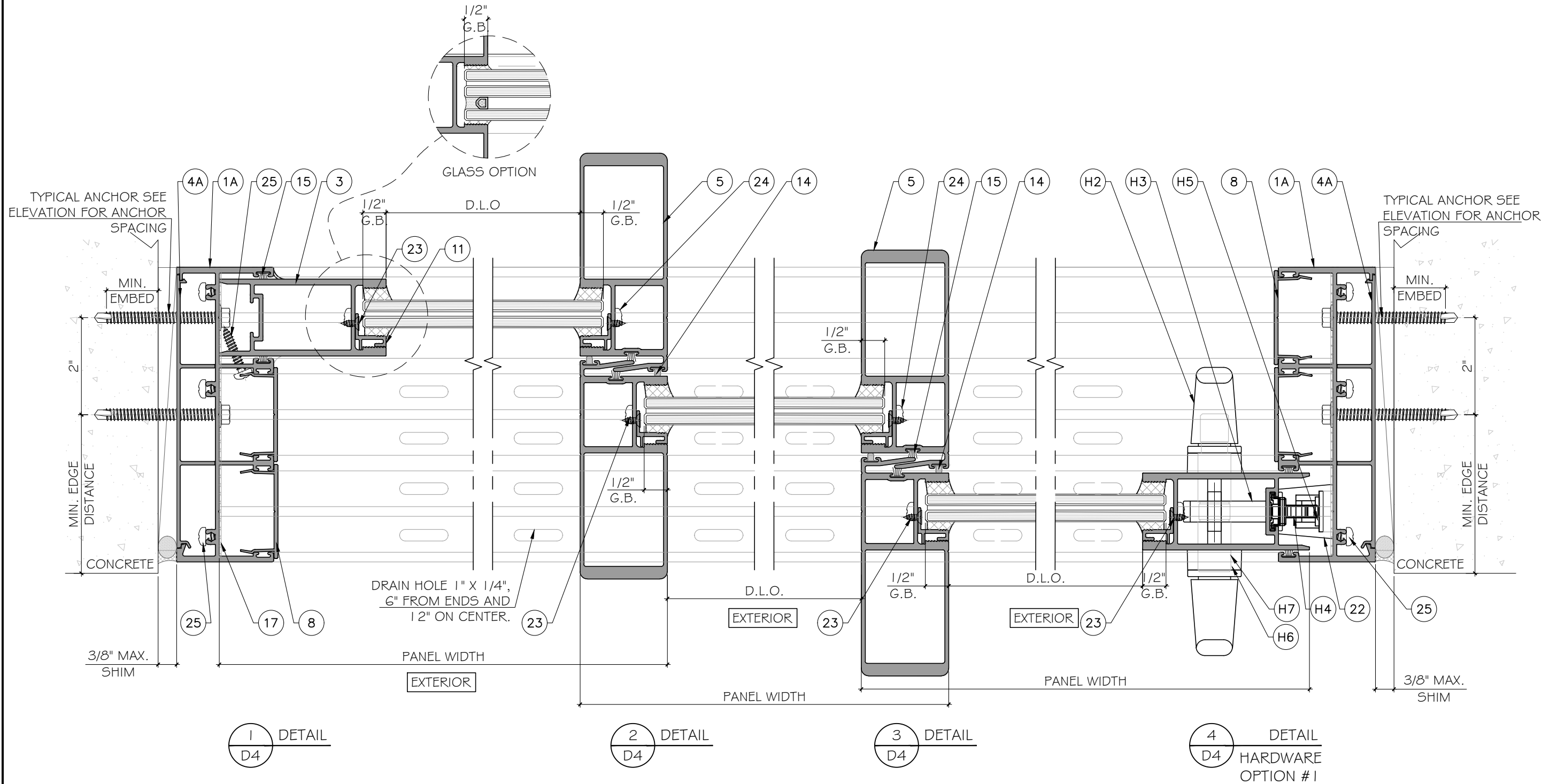
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SERIES SPA100 AND SPA150 SLIDING GLASS DOOR - L.M.I. SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA Shanghai, China TEL.86 021-5822 0630 CELL.86 135-8572-3609			
Drawn Date	Drawn By	Rev. No.	Description
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03.07.2022	James	01	
DRAWING NO.		AD22-05	
D2		Sheet No.	
August 18th, 2023		8 OF 15	



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301

MIRAMAR, FL 33027

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MCY

ENGINEERING

SERIES SPA100 AND SPA150 SLIDING GLASS DOOR - L.M.I.

SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD

LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA

Shanghai, China

TEL.86 021-5822 0630 CELL.86 135-8572-3609

Rev. No.	Date	Drawn By	Description
02	08.17.2023	James	FBC 2023
01	03.07.2022	James	NEW PRODUCT APPLICATION

Drawn Date

08.17.2023

Drawn By

DRAWING NO.

AD22-05

D4

Sheet No.

10 OF 15

FLORIDA APPROVAL:

FL # 41360

WANG, P. L.

FLORIDA REGISTRATION

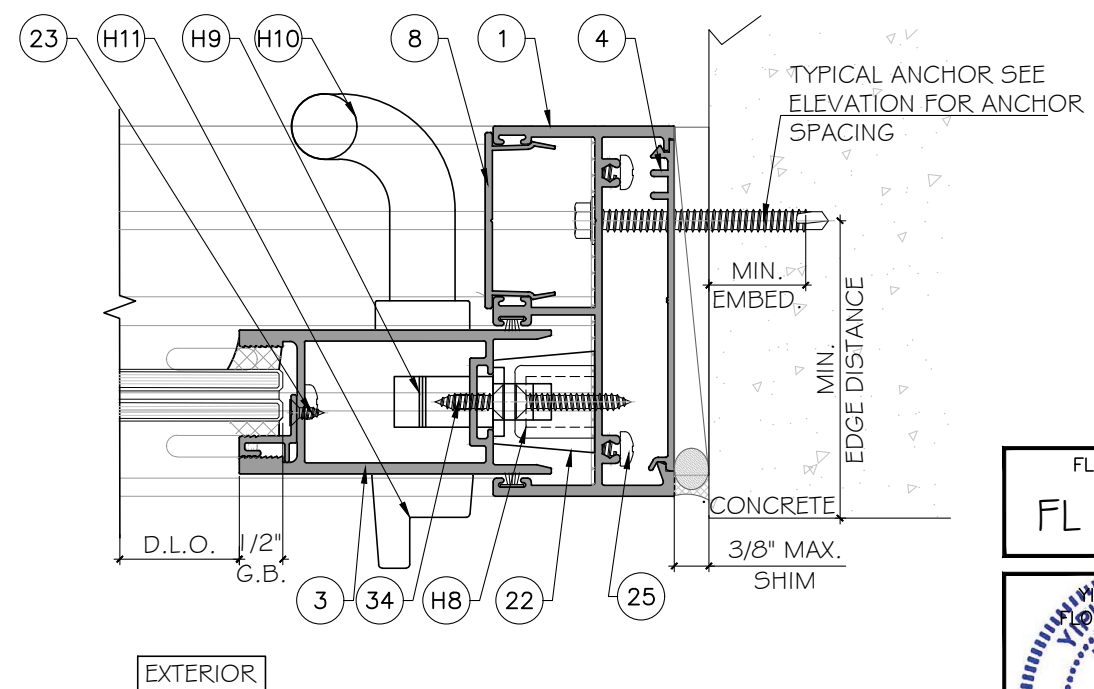
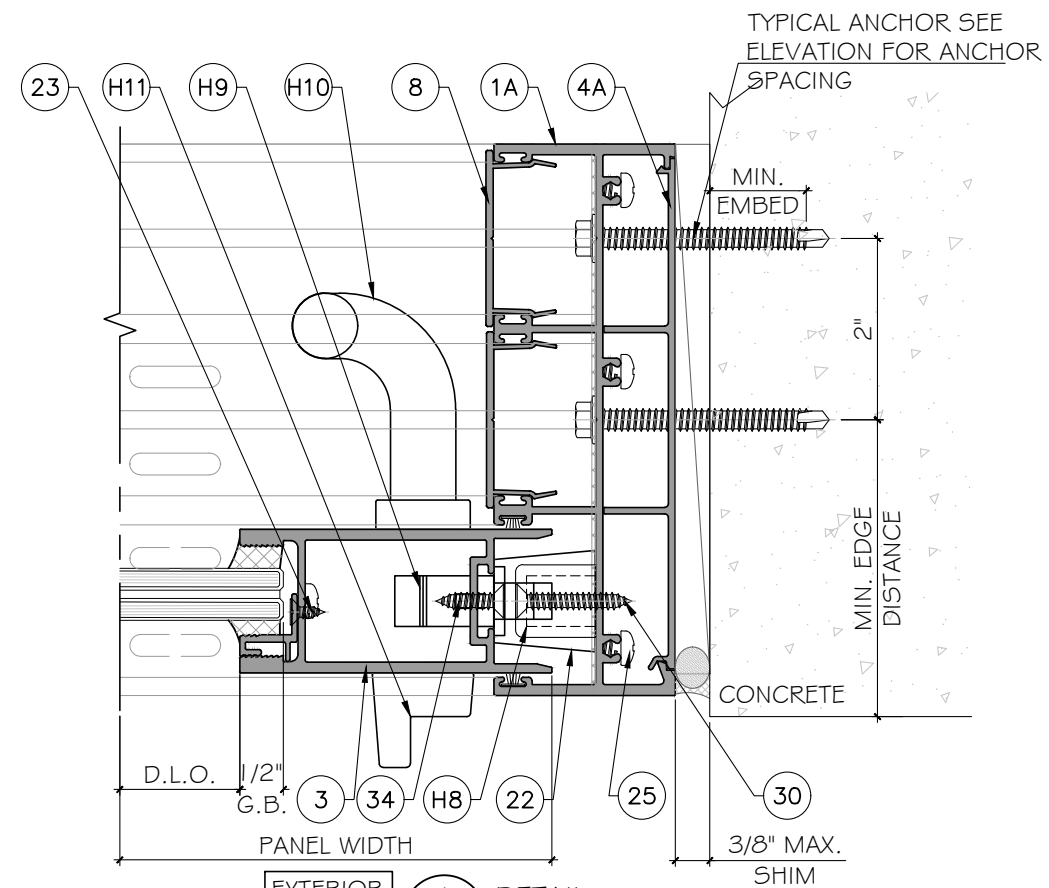
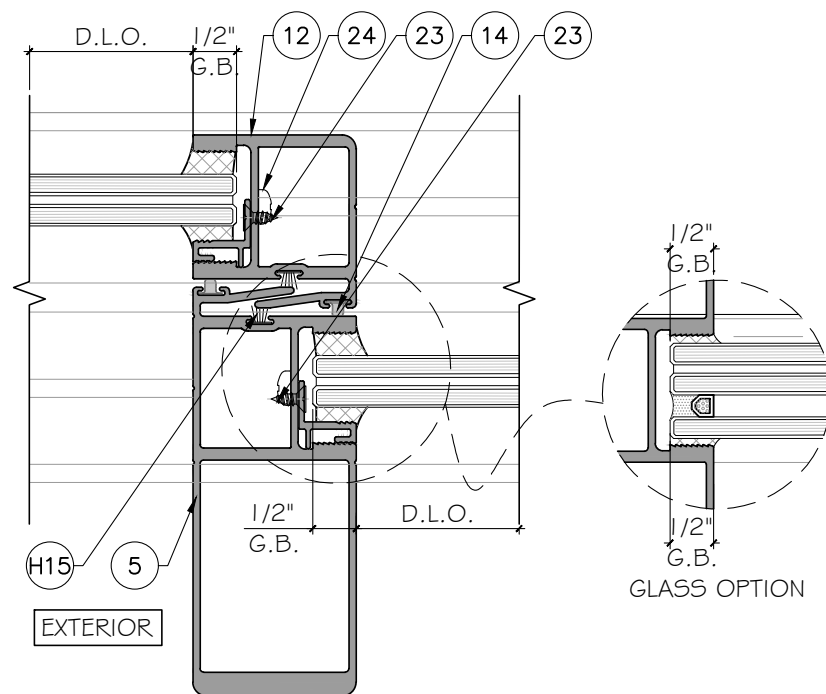
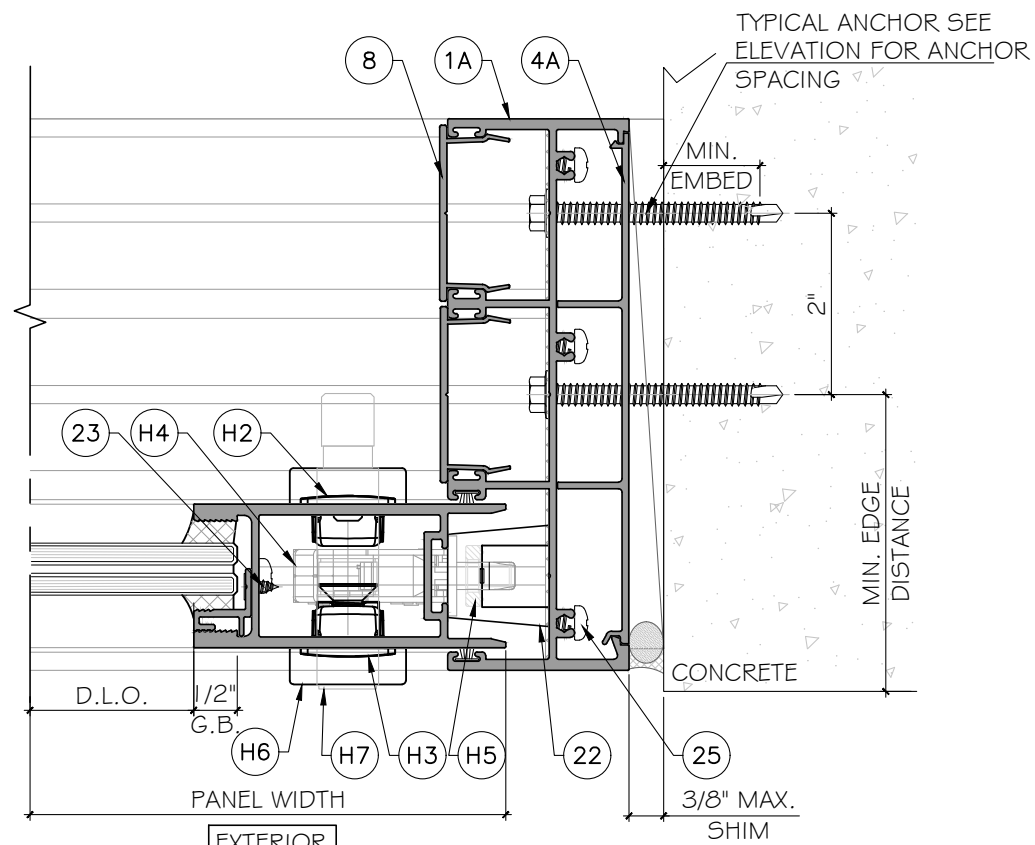
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C.A.N. 528677

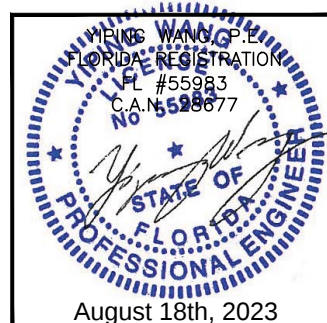
STATE OF FLORIDA

PROFESSIONAL ENGINEER

August 18th, 2023



FLORIDA APPROVAL:
FL # 41360

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Drawn Date	Drawn By
08.17.2023	

DRAWING NO.
AD22-05

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① DOOR FRAME SPA10058
ALUM.6063-T5

② DOOR TRACK SPA10059
ALUM.6063-T5

③ DOOR LOCK STILE SPA10162B
ALUM.6063-T5

④ FLUSH ADAPTOR SPA10007
ALUM.6063-T5

⑧ FRAME ADAPTOR SPA10029
ALUM.6063-T5

⑤ HEAVY DUTY INTERLOCK SPA10025A
ALUM.6063-T5

⑥ TOP & BOTTOM RAIL SPA10098
ALUM.6063-T5

⑦ HEAVY DUTY MALE LOCK STILE SPA10163
ALUM.6063-T5

④A FLUSH ADAPTOR SPA15007A
ALUM.6063-T5

⑨A DOOR SILL ADAPTOR SPA10039
ALUM.6063-T5

①A DOOR FRAME SPA15033
ALUM.6063-T5

②A DOOR TRACK SPA15034
ALUM.6063-T5

⑨ DOOR SILL ADAPTOR SPA10036
ALUM.6063-T5

⑩ SUB SILL SPA10060
ALUM.6063-T5

⑪ LAM. GLASS ADAPTOR SPA10040
ALUM.6063-T5

⑩A SUB SILL SPA15035
ALUM.6063-T5

⑫ INTERLOCK SPA10023
ALUM.6063-T5

⑬ TOP SEALING BLOCK AND STOPPER ACSPA001

⑫ SUBSILL END CAP (L&R) ACSPA008

FLORIDA APPROVAL:
FL # 41360

YIN WANG, P.E.
FLORIDA REGISTRATION
#55983
C.A.N. 28677
STATE OF FLORIDA
PROFESSIONAL ENGINEER
August 18th, 2023

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01	03.07.2022	James	

Drawn Date	08.17.2023
Drawn By	

DRAWING NO.
AD22-05

PARTS

Sheet No.
12 OF 15

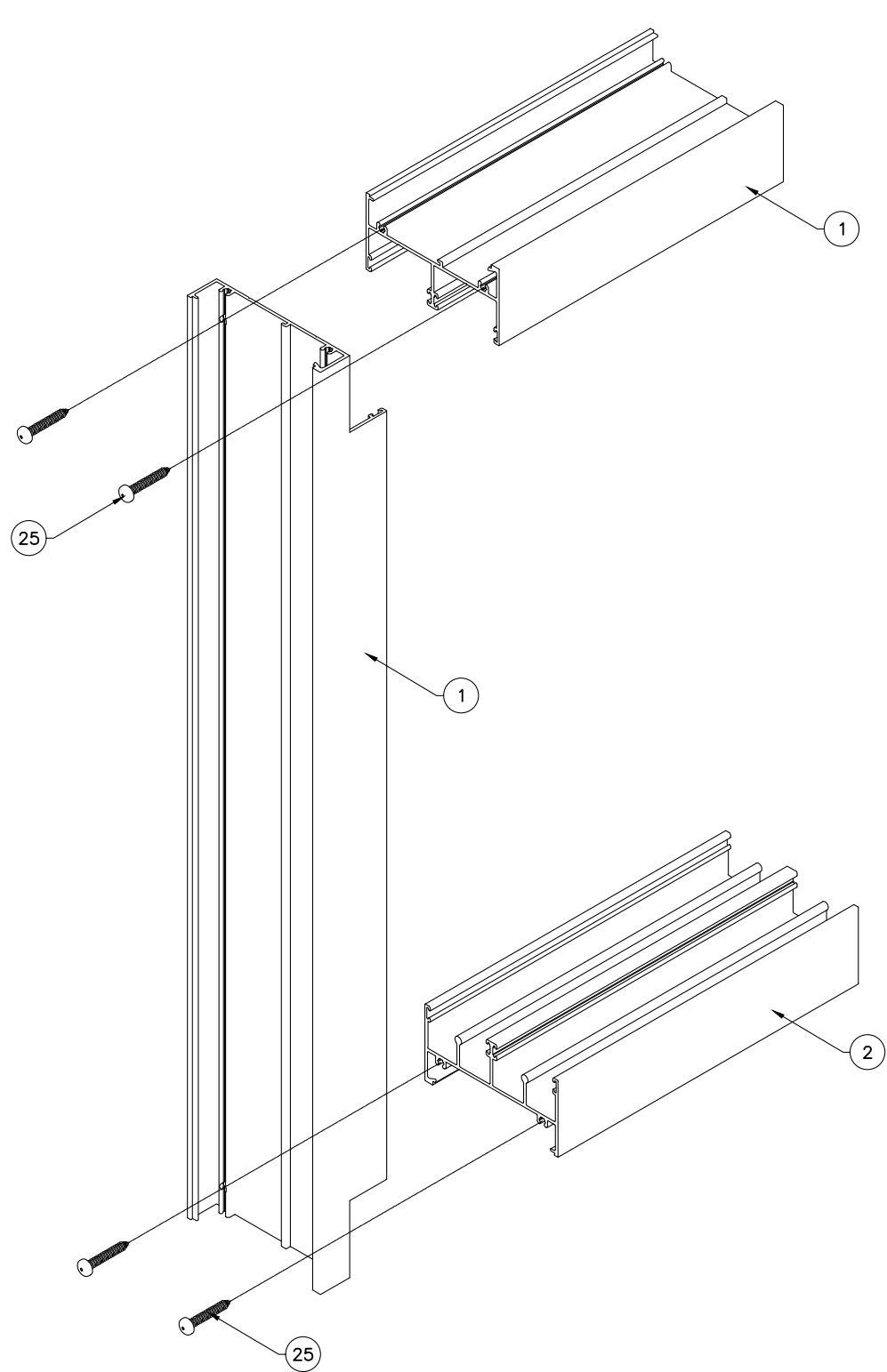
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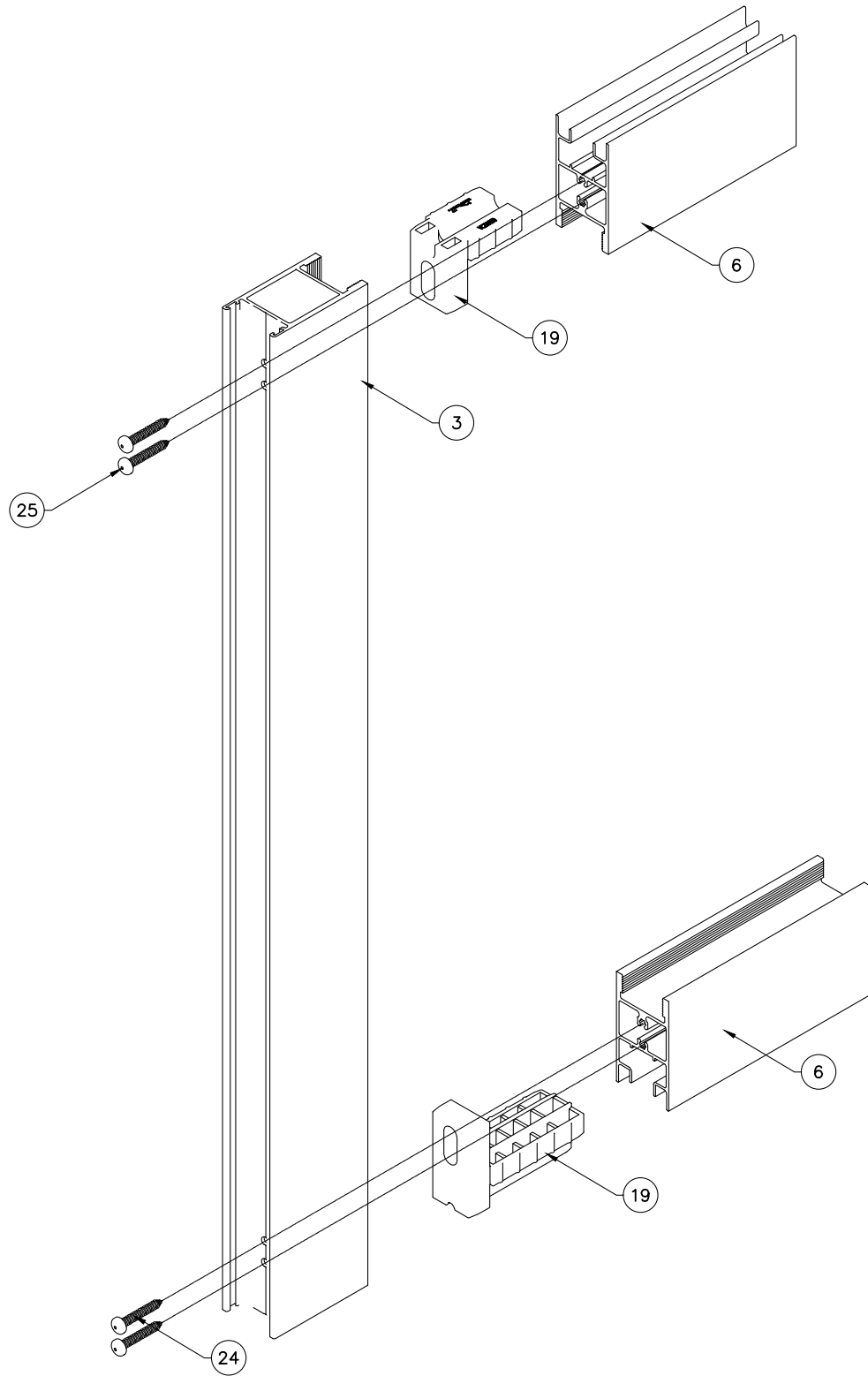
BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	MANUFACTURE
1	SPA10058	FRAME HEAD AND JAMB	ALUM. 6063-T5	GUANGYA ALU. COMPANY
1A	SPA15033	DOOR FRAME	ALUM. 6063-T5	GUANGYA ALU. COMPANY
2	SPA10059	FRAME SILL	ALUM. 6063-T5	GUANGYA ALU. COMPANY
2A	SPA15034	DOOR TRACK	ALUM. 6063-T5	GUANGYA ALU. COMPANY
3	SPA10162B	DOOR LOCK STILE	ALUM. 6063-T5	GUANGYA ALU. COMPANY
4	SPA10007	FLUSH ADAPTOR	ALUM. 6063-T5	GUANGYA ALU. COMPANY
4A	SPA15007A	FLUSH ADAPTOR	ALUM. 6063-T5	GUANGYA ALU. COMPANY
5	SPA10025A	HEAVY DUTY INTERLOCK	ALUM. 6063-T5	GUANGYA ALU. COMPANY
6	SPA10098	TOP & BOTTOM RAIL	ALUM. 6063-T5	GUANGYA ALU. COMPANY
7	SPA10163	HEAVY DUTY MALE LOCK STILE	ALUM. 6063-T5	GUANGYA ALU. COMPANY
8	SPA10029	FRAME ADAPTOR	ALUM. 6063-T5	GUANGYA ALU. COMPANY
9	SPA10036	LOW THRESHOLD	ALUM. 6063-T5	GUANGYA ALU. COMPANY
9A	SPA10039	HIGH THRESHOLD	ALUM. 6063-T5	GUANGYA ALU. COMPANY
10	SPA10060	SUB SILL	ALUM. 6063-T5	GUANGYA ALU. COMPANY
10A	SPA15035	SUB SILL	ALUM. 6063-T5	GUANGYA ALU. COMPANY
11	SPA10040	LAM. GLASS ADAPTOR	ALUM. 6063-T5	GUANGYA ALU. COMPANY
12	SPA10023	INTERLOCK	ALUM. 6063-T5	GUANGYA ALU. COMPANY
13	KS211	THRESHOLD GASKET, ADUROMETER 9±2 SHORE A	FOAM	-
14	KS201	INTERLOCK GASKET, ADUROMETER 9±2 SHORE A	FOAM	-
15	7-3.5-4	PILE W/STRIPPING WITH FIN	-	-
16	ACSPA001	TOP SEALING BLOCK AND STOPPER	PAGG	SUPERHOUSE COMPANY
17	SPA10001W	FRAME JOINT GASKET	-	3M COMPANY
18	SBWG-006	SUBSILL GASKET, ADUROMETER 70±5 SHORE A	EPDM	-
19	ACSPA020	SUPPORT BLOCK FOR FIX PANEL BOTTOM	PAGG	SUPERHOUSE COMPANY
20	KS521	MALE LOCK STILE GASKET, ADUROMETER 9±2 SHORE A	FOAM	-
21	-	EPDM SETTING BLOCK 3/32" X 7/8", ADUROMETER 75±5 SHORE A	EPDM	-
22	-	EPDM STOPPER, ADUROMETER 65±2 SHORE A	EPDM	-
23	-	PANEL ASSEMBLY SCREWS DIA.5/32" X 3/8", @12" O.C.	STAINLESS STEEL	CHUANGGU COMPANY
24	-	PANEL ASSEMBLY SCREWS DIA.3/16" X 1 1/2"	STAINLESS STEEL	CHUANGGU COMPANY
25	-	PANEL ASSEMBLY SCREWS DIA.3/16" X 1", @12" O.C.	STAINLESS STEEL	CHUANGGU COMPANY
26	-	EPDM SETTING BLOCK 5/32" X 1-3/32", ADUROMETER 75±5 SHORE A	EPDM	-
27	-	STRUCTURE SILICONE DOWSIL 995	SILICONE	DOWSIL
28	ACSPA008	SUBSILL END CAP (L&R)	PAGG	SUPERHOUSE COMPANY
29	-	PANEL ASSEMBLY SCREW DIA.5/32" X 1/2" PH. SMS.	STAINLESS STEEL	CHUANGGU COMPANY
30	-	PANEL ASSEMBLY SCREWS DIA.3/16" X 1 1/4" PH SMS	STAINLESS STEEL	CHUANGGU COMPANY
31	ACSPA-018	LOW THRESHOLD END CAP	TPR	SUPERHOUSE COMPANY
32	ACSPA-051	HIGH THRESHOLD END CAP	TPR	SUPERHOUSE COMPANY
33		PANEL ASSEMBLY SCREWS DIA.5/32" X 1/2" PH SMS	STAINLESS STEEL	CHUANGGU COMPANY
34		PANEL ASSEMBLY SCREWS DIA.3/16" X 3/4" FH SMS	STAINLESS STEEL	CHUANGGU COMPANY

FL # 41360

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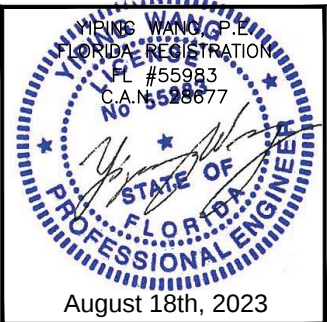


FRAME CORNER ASSEMBLY
TOP AND BOTTOM



PANEL ASSEMBLY
TOP AND BOTTOM

FLORIDA APPROVAL:
FL # 41360



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Drawn Date	08.17.2023	Drawn By	James	Rev. No.	100

DRAWING NO.
AD22-05

ASSEMBLY

Sheet No.
15 OF 15

SERIES SPA100 AND SPA150 SLIDING GLASS DOOR - L.M.I.
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