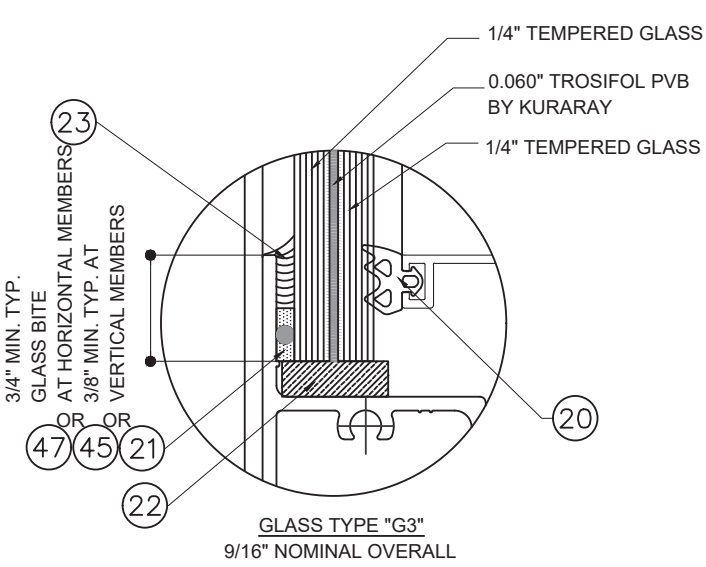
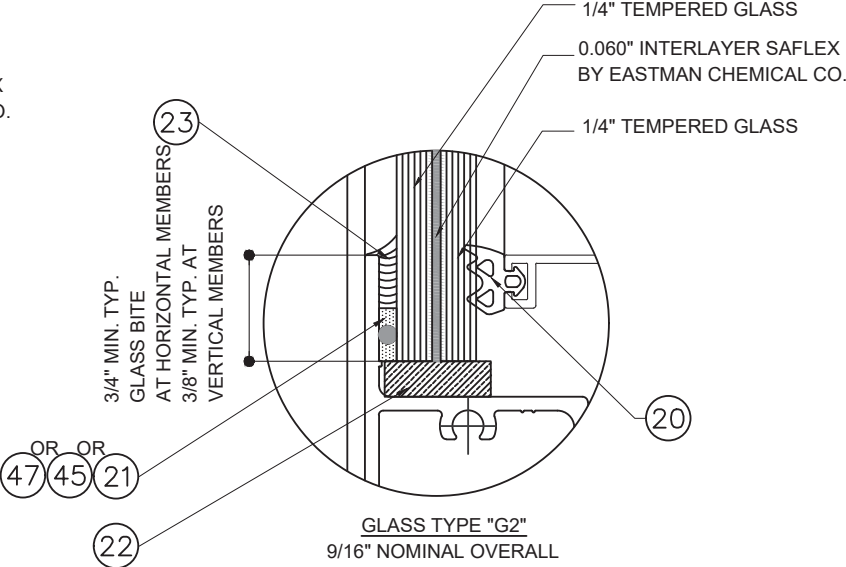
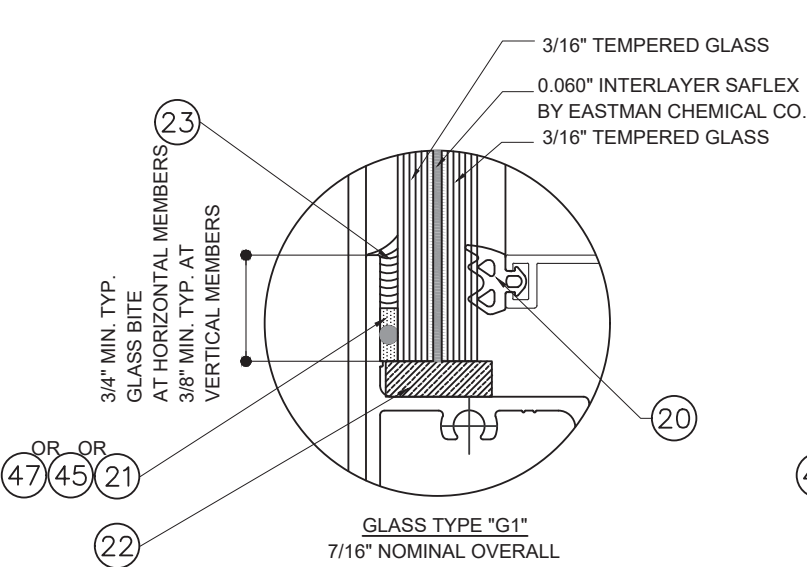


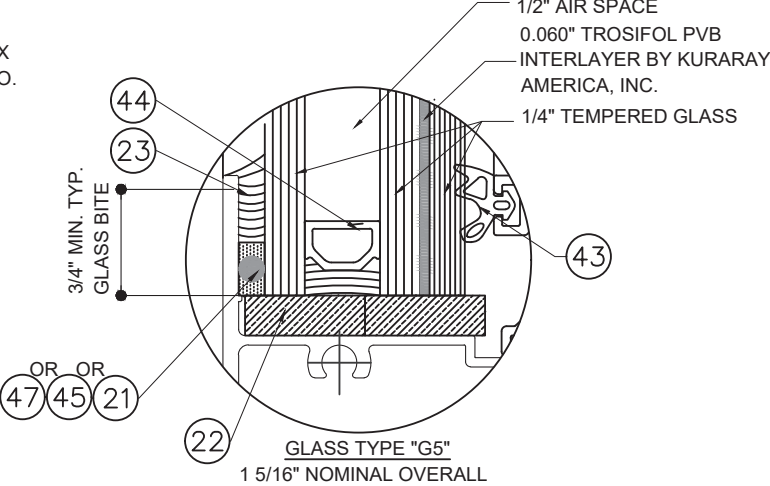
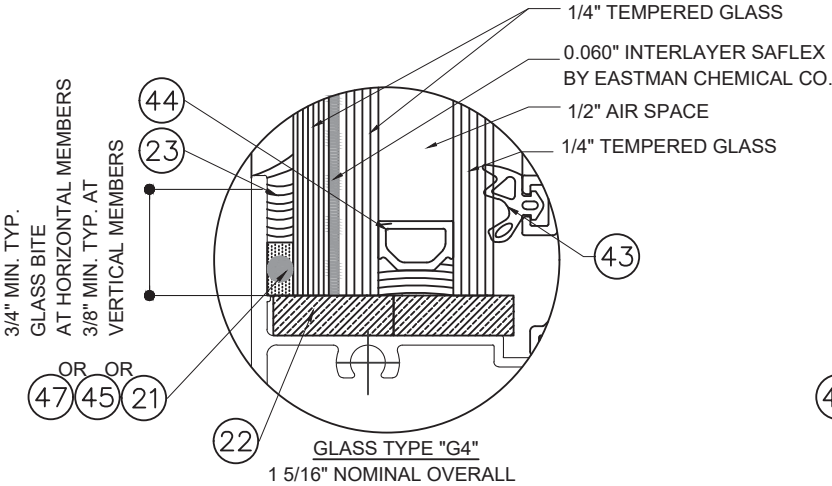
GLASS OPTIONS



GLASS TYPE	GLASS SIZE		MAX. GLASS AREA (FT2)	DESIGN LOADS (PSF)	
	MAX. WIDTH	MAX. HEIGHT		+	-
G1 or G4	56 3/16"	114 1/2"	44.7	110	110
G2	51 5/16"	119 1/2"	42.6	160	160
G2	50 3/16"	125 1/2"	43.7	150	150
G2	50 3/16"	137 1/2"	47.9	126	126
G3	54 3/8"	120"	45.3	110	110
G5	66 1/4"	125 7/16"	57.7	92	92

AREA= D.L.O.W. * D.L.O.H.

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



FLORIDA APPROVAL:
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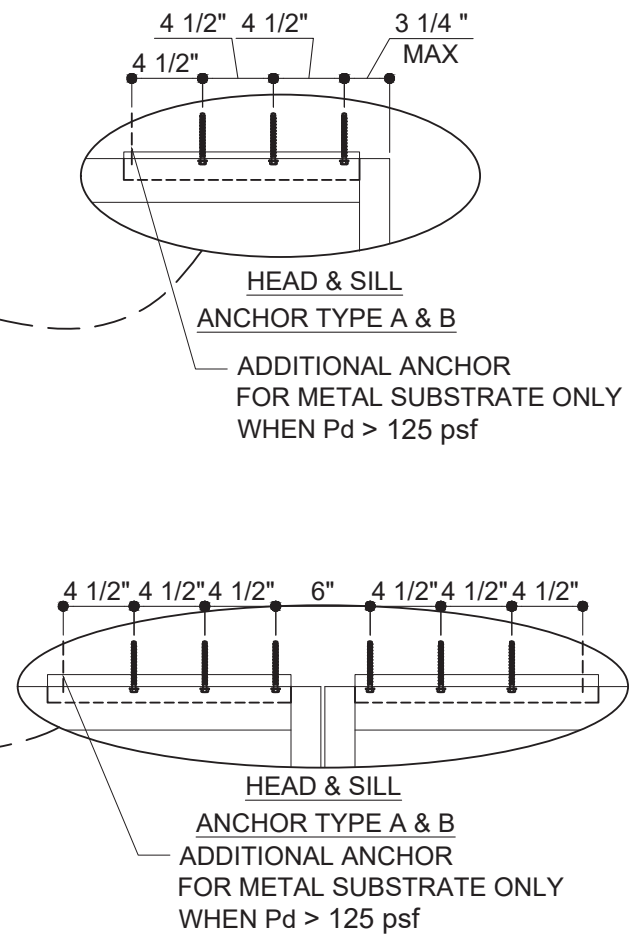
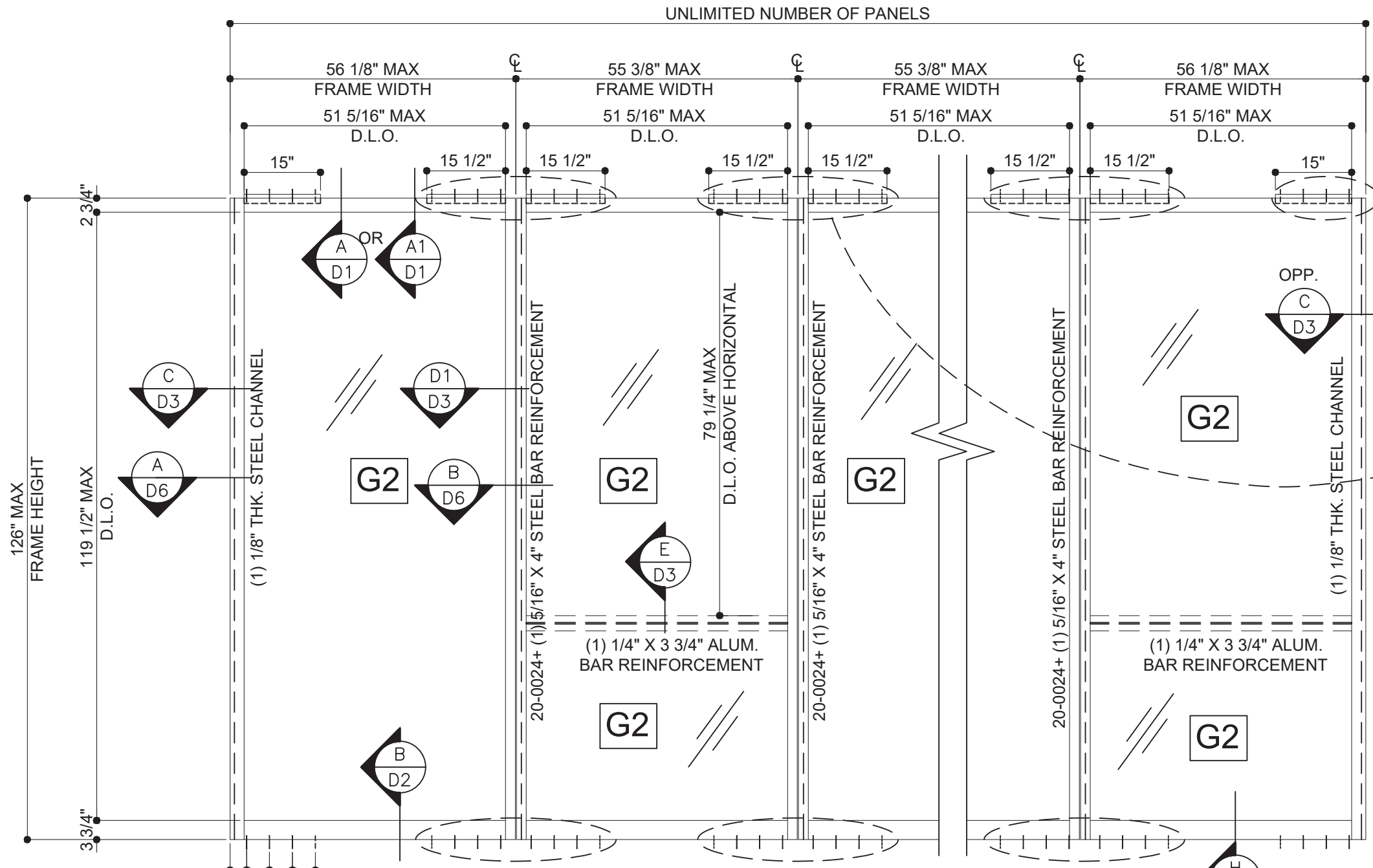
YOUNG WANG & ASSOCIATES, P.C.
FLORIDA REGISTRATION
FL #55983
C.A. No. 528677

September 4th, 2024

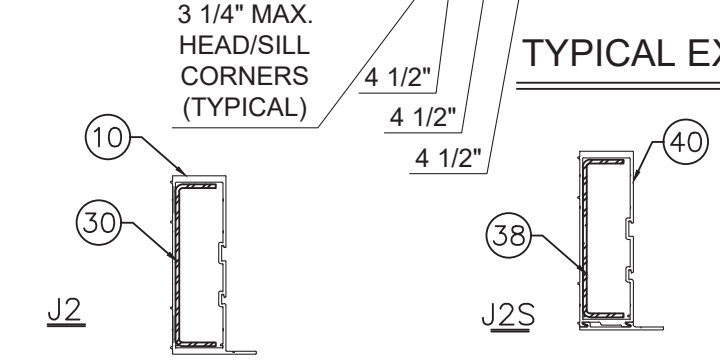
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027
P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

SERIES WW20 WINDOWALL SYSTEM - SMI
GLOBAL PERFORMANCE WINDOW INC.
DBA. EPSYLON USA
1881 SW 3ST POMPANO BEACH, FL 33069
TEL. (954)-942-3322

Rev. No.	Date	Drawn By	Description
R3	08/13/2024	JAMES	
Drawn Date: 08/13/2024 Scale: AS SHOWN			
DRAWING NO. AD15-06			
G1			
Sheet No. 2 OF 22			



TYPICAL EXTERIOR ELEVATION (SINGLE STEEL REINFORCEMENT)



J2	Ix IN^4	Sx IN^3
ALUMINUM EXTRUSION		
20-007	9.831	3.158
STEEL REINF.		
STL CHANN.	3.522	1.311
TOTAL	20.046	(IN ALUM.)

J2S	Ix IN^4	Sx IN^3
ALUMINUM EXTRUSION		
20-012	7.8713	2.602
STEEL REINF.		
STL CHANN.	3.522	1.311
TOTAL	18.085	(IN ALUM.)

DESIGN LOAD CAPACITIES (+/-) PSF					
FRAME DIM. (IN)		W/ OR W/O HORIZ.			
F.HEIGHT	TRIB.WIDTH	M2	J2	M2S	J2S
120	54	130	130	130	130
	60	130	121	130	130
126	48	130	130	130	130
	54	130	122	130	130
	55 3/8	130	119	130	130

M2	Ix IN^4	Sx IN^3
ALUMINUM EXTRUSIONS		
20-008	7.978	2.526
20-009	7.706	2.432
20-0024	5.754	2.396
STEEL REINF.		
5/16"x4" STL. BAR	1.667	0.833
TOTAL	26.272	(IN ALUM.)

M2S	Ix IN^4	Sx IN^3
ALUMINUM EXTRUSIONS		
20-008	7.978	2.526
20-014	5.286	1.620
20-0024	5.754	2.396
STEEL REINF.		
5/16"x4" STL. BAR	1.667	0.833
TOTAL	23.852	(IN ALUM.)

FLORIDA APPROVAL:
FL#19019.1

YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A. N. 528677

September 4th, 2024

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GLAZING CONSULTANTS
12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027
P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

SERIES WW20 WINDOW WALL SYSTEM - SMI
GLOBAL PERFORMANCE WINDOW INC.
DBA. EPSYLON USA
1881 SW 3ST POMPANO BEACH, FL 33069
TEL. (954)-942-3322

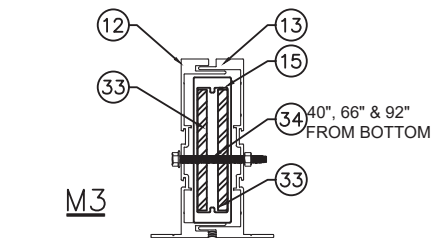
Rev.	No.	Date	Drawn By	Description
R3	08132024	JAMES	JAMES	REVISION

Drawn Date	Scale
08132024	AS SHOWN

DRAWING NO.
AD15-06

Sheet No.
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E2



Technical drawing of a rectangular profile. The drawing shows a cross-section of a rectangular tube. The top flange has a thickness of 10, and the side wall has a thickness of 30. The label J3 is positioned to the left of the drawing.

M3	Ix IN^4	Sx IN^3
ALUMINUM EXTRUSIONS		
20-008	7.978	2.526
20-009	7.706	2.432
20-0024	5.754	2.396
STEEL REINF.		
5/16"x4" STL. BAR	1.667	0.833
5/16"x4" STL. BAR	1.667	0.833
TOTAL	31.105	IN ALUM.

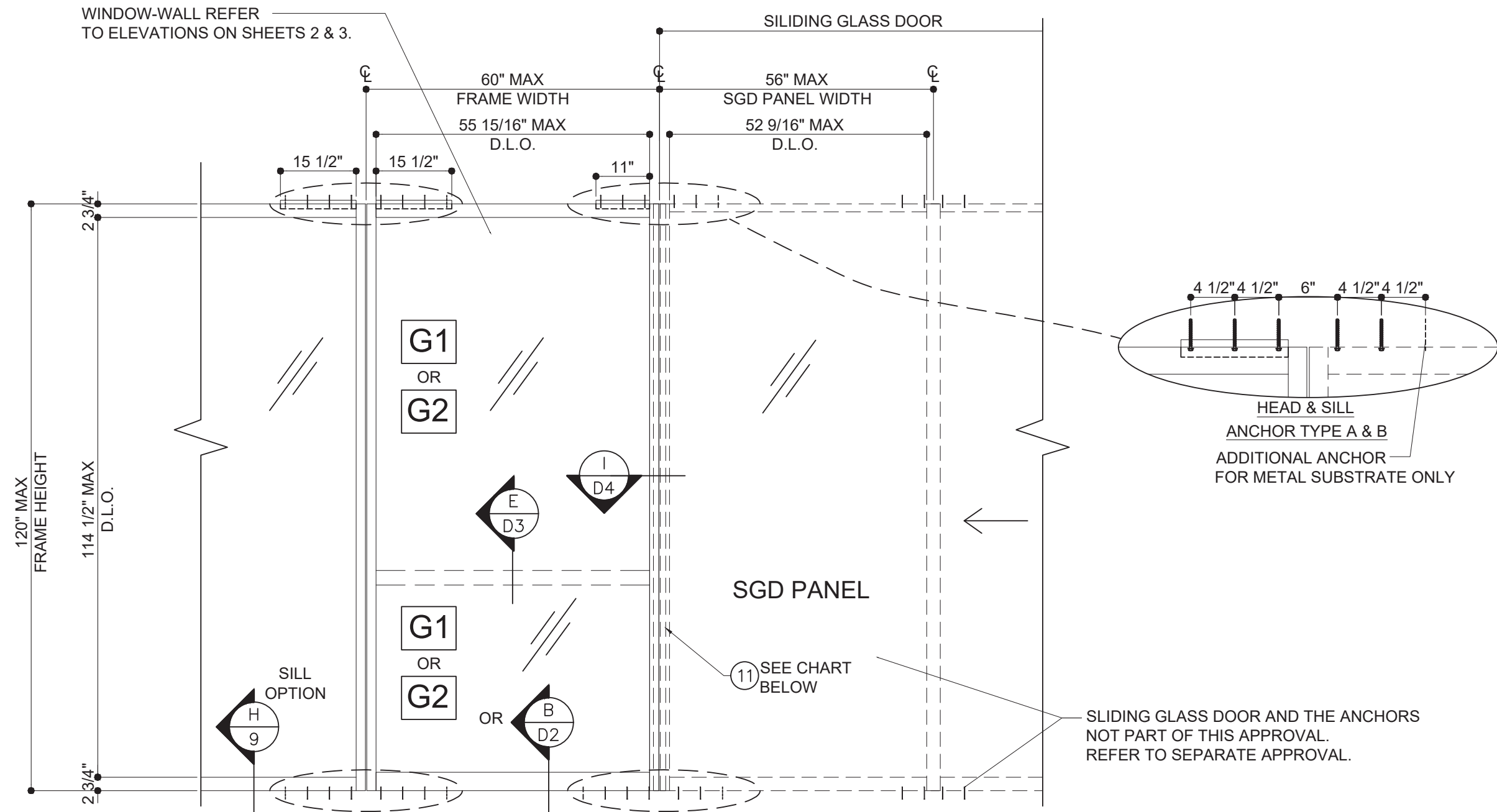
YOUNG WANG P.E.
FLORIDA REGISTRATION
FL #55983
CA No 658677

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

September 4th, 2024

Drawn Date 08132024	Scale AS SHOWN
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Sheet No.
5 OF 22



TYPICAL EXTERIOR ELEVATION (UNREINFORCED & REINFORCED WITH SGD)

DESIGN LOADS	
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)	
WITHOUT REINFORCEMENT 11	WITH REINFORCEMENT 11
+90 PSF	+120 PSF
-100 PSF	-130 PSF

R3	Ix IN ⁴	Sx IN ³
ALUMINUM EXTRUSION		
20-007	9.831	3.158
STEEL REINF.		
11U CHANNEL	3.522	1.311
4.5"x0.5" STL. BAR	3.797	1.688
TOTAL (IN ALUM)	31.0568	—

FLORIDA APPROVAL:

FL#19019.1

YOUNG WANG P.E.
FLORIDA REGISTRATION
FL #55983
C.A. No. 5528677

September 4th, 2024

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027 P: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

SERIES WW20 WINDOWALL SYSTEM - SMI

GLOBAL PERFORMANCE WINDOW INC.
DBA. EPSYLON USA
1881 SW 3ST POMPANO BEACH, FL 33069
TEL. (954)-942-3322

Rev. No.	Date	Drawn By	REVISION	Description
R3	08/13/2024	JAMES		

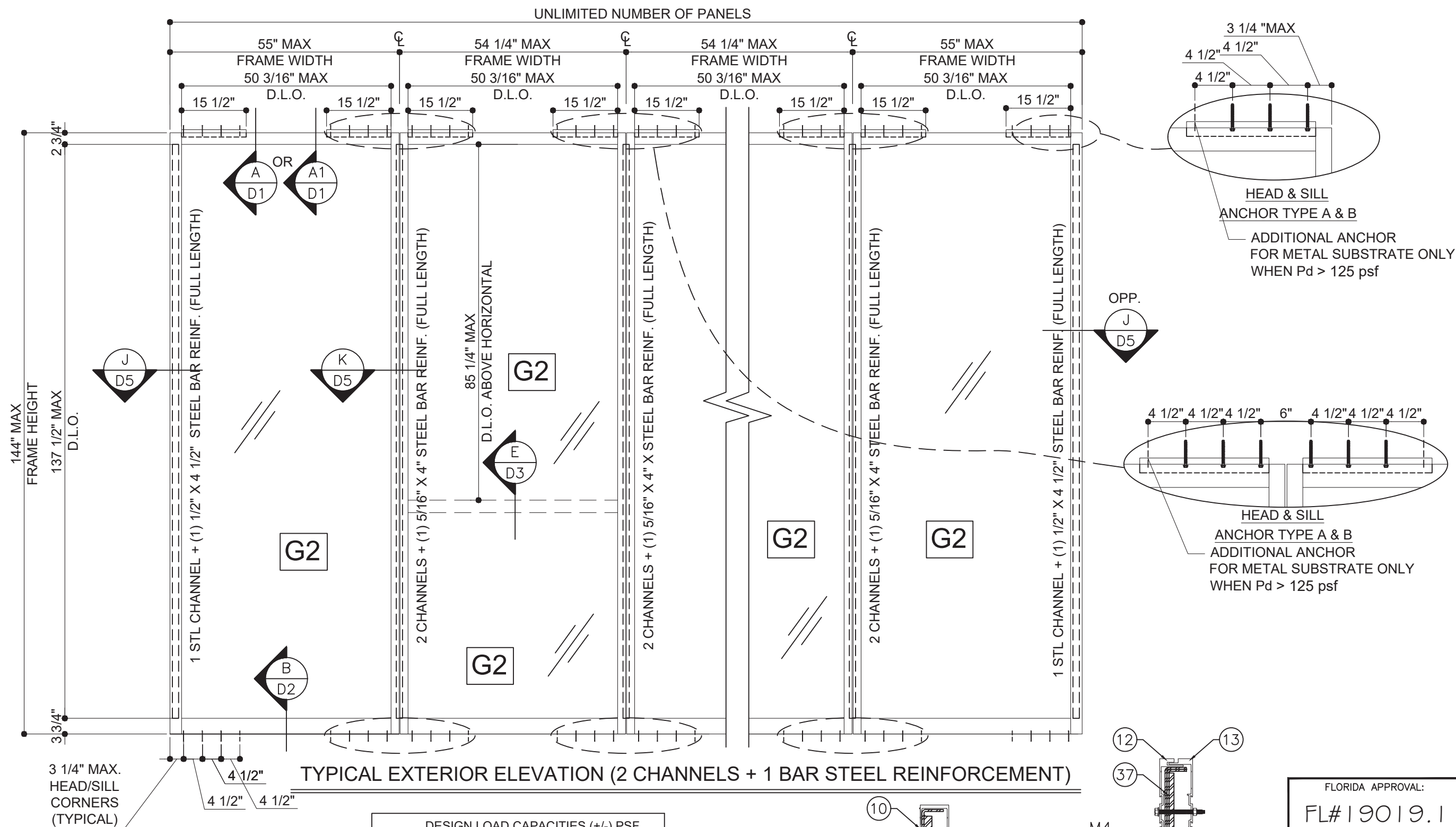
Drawn Date: 08/13/2024

Scale: AS SHOWN

DRAWING NO. AD15-06

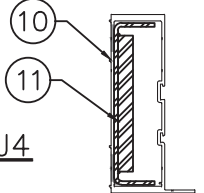
Sheet No. 6 OF 22

E4



TYPICAL EXTERIOR ELEVATION (2 CHANNELS + 1 BAR STEEL REINFORCEMENT)

DESIGN LOAD CAPACITIES (+/-) PSF			
FRAME DIM. (IN)		W/ OR W/O HORIZ.	
F.HEIGHT	TRIB.WIDTH	M4	J4
138	48	126	126
	54	120	126
	56.5	115	126
144	45	126	126
	48	124	126
	54	110	126

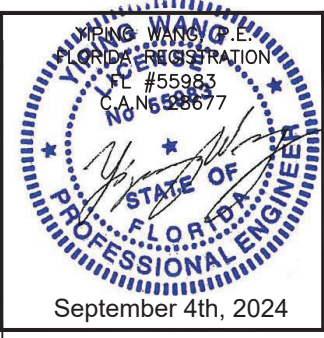
J4		
	Ix IN^4	Sx IN^3
ALUMINUM EXTRUSION		
20-007	9.831	3.158
STEEL REINF.		
STL CHANNEL	3.522	1.311
4.5"x1/2" STL. BAR	3.797	1.688
TOTAL	31.057	(IN ALUM.)

NT)

M4

M4	I _x IN ⁴	S _x IN ³
ALUMINUM EXTRUSIONS		
20-008	7.978	2.526
20-009	7.706	2.432
STEEL REINF.		
4.125"x5/16" STL. BAR	1.828	0.886
4.613"x1.125"x0.125" U CHANNEL	2.191	0.948
4.875"x1.125"x0.125" U CHANNEL	2.677	1.098
TOTAL (IN ALUM.)	35.102	—

FLORIDA APPROVAL:
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GLAZING CONSULTANTS
12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027
P: 305.271.0117
www.MCYEngineering.com
mcy@mcyengineering.com

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SERIES WW20 WINDOWALL SYSTEM - SMI

GLOBAL PERFORMANCE WINDOW INC.
DBA. EPSYLON USA
1881 SW 3ST POMPAÑO BEACH, FL 33069
TEL. (954)-942-3322

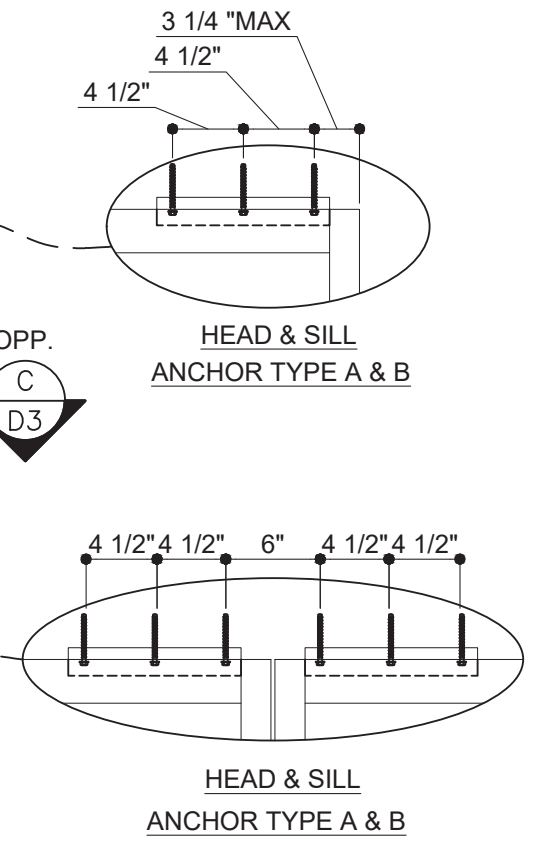
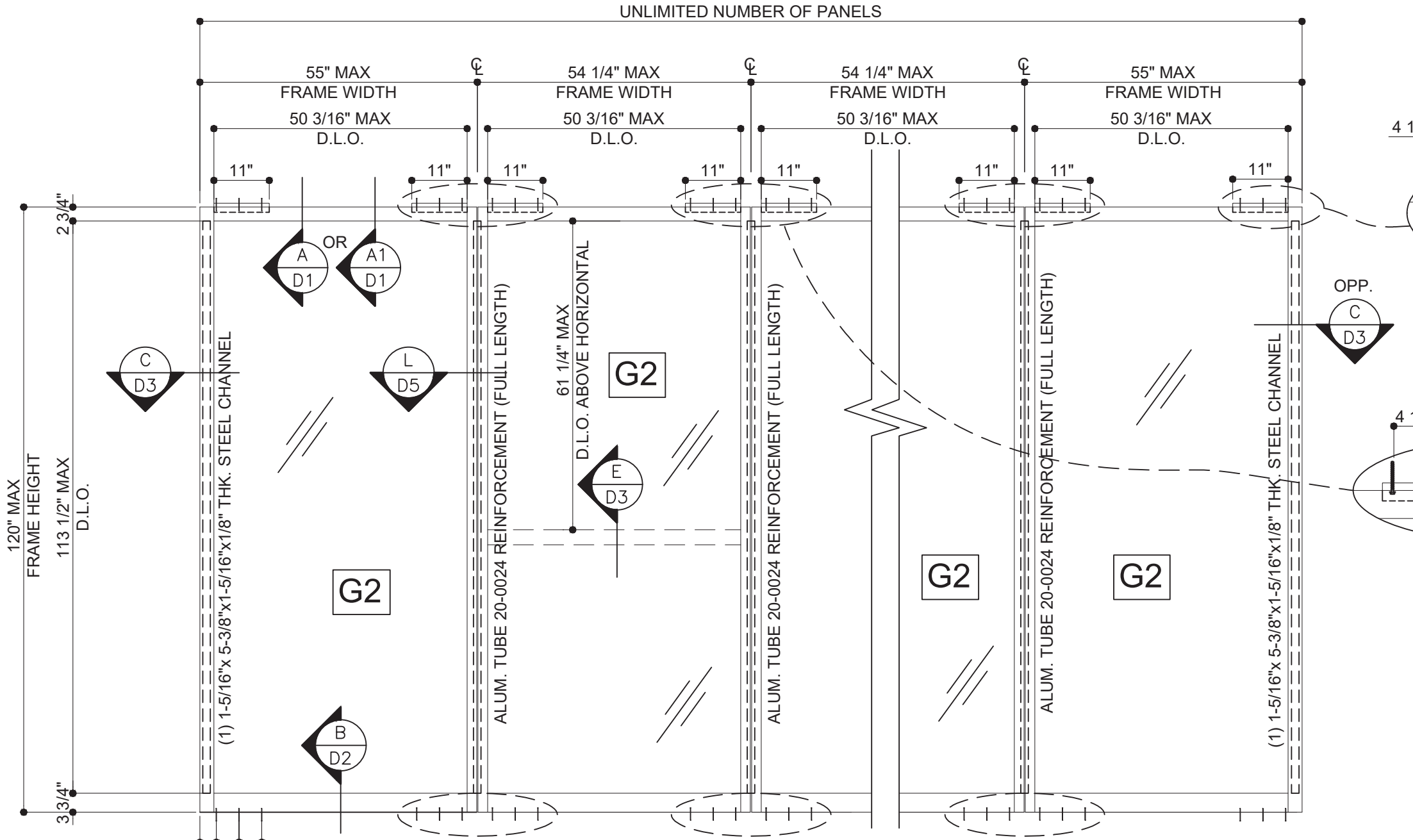
Rev. No.	Date	Drawn By	Description
R3	08/13/2024	JAMES	

Drawn Date: 08/13/2024
Scale: AS SHOWN

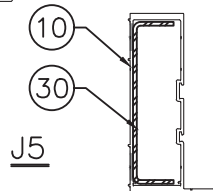
DRAWING NO.
AD15-06

E5

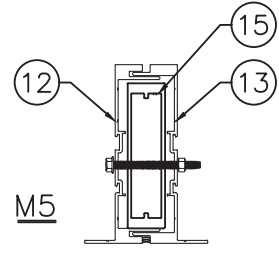
Sheet No.
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3 1/4" MAX.
HEAD/SILL
CORNERS
(TYPICAL)



J5	Ix IN^4	Sx IN^3
ALUMINUM EXTRUSION		
20-007	9.831	3.158
STEEL REINF.		
U CHANNEL	3.522	1.311
TOTAL (IN ALUM.)	20.046	(IN ALUM.)



M5	Ix IN^4	Sx IN^3
ALUMINUM EXTRUSIONS		
20-008	7.978	2.526
20-009	7.706	2.432
20-0024	5.750	2.394
TOTAL	21.438	-

TYPICAL EXTERIOR ELEVATION (ALUM. REINFORCEMENT, 10' TALL)

DESIGN LOADS
(FOR SIZE SHOWN ABOVE OR
SMALLER AS PERMITTED BY FBC)
+130 PSF
-130 PSF

FLORIDA APPROVAL:
FL#19019.1

September 4th, 2024

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GLAZING CONSULTANTS
12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027
P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

SERIES WW20 WINDOW WALL SYSTEM - SMI

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DBA. EPSYLON USA
1881 SW 3ST POMPANO BEACH, FL 33069
TEL. (954)-942-3322

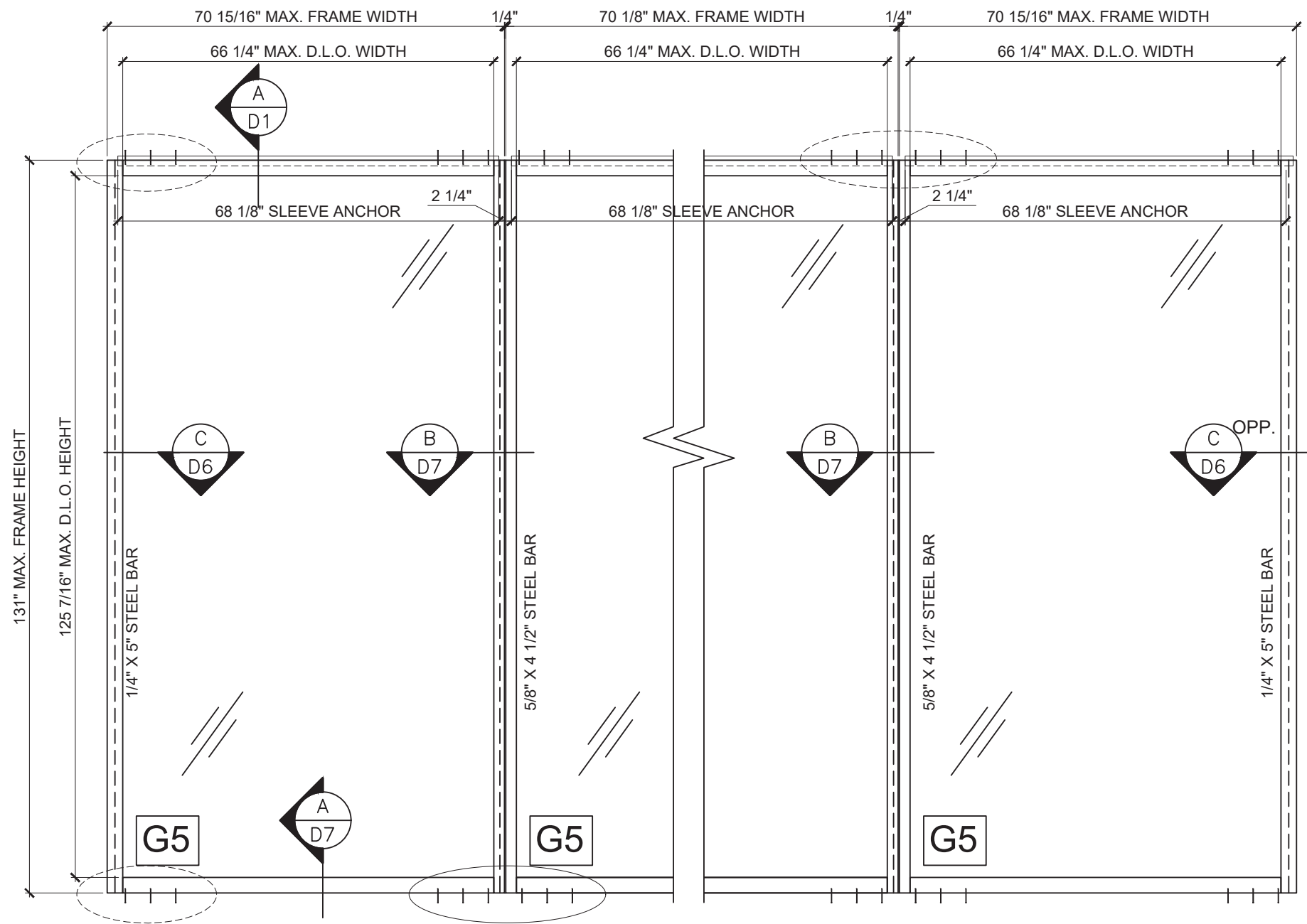
Rev. No.	Date	Drawn By	Description
R3	08/13/2024	JAMES	REVISION

Drawn Date: 08/13/2024 | Scale: AS SHOWN

AD15-06

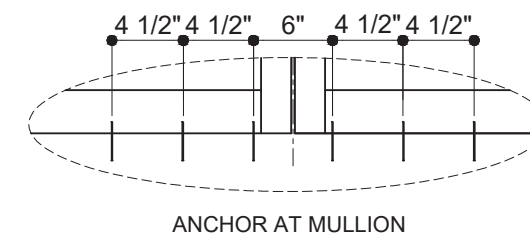
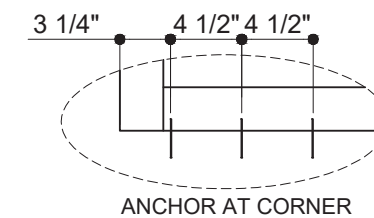
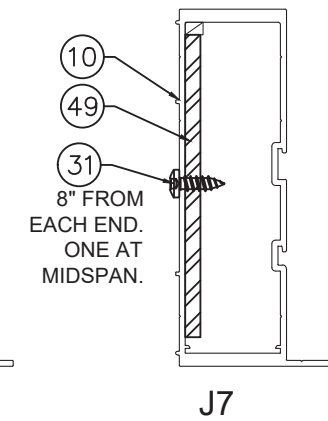
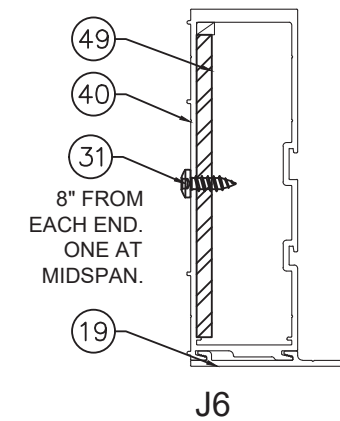
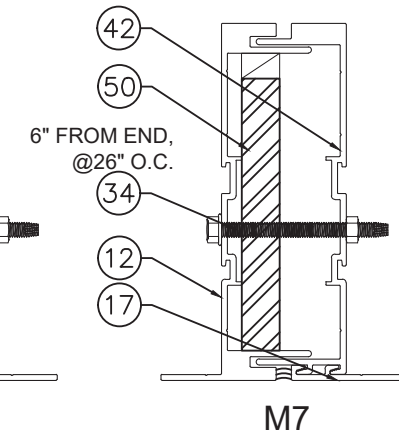
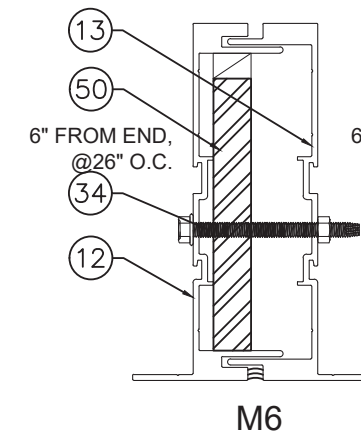
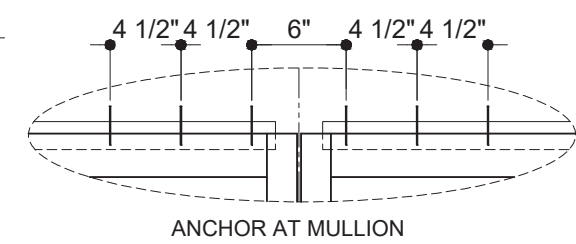
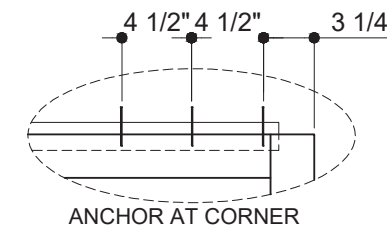
E6

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8 OF 22

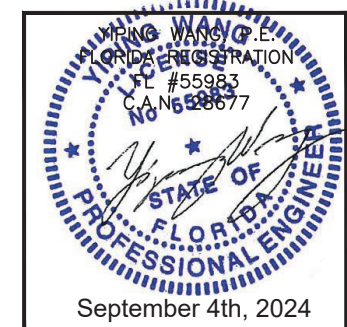


TYPICAL EXTERIOR ELEVATION

DESIGN LOAD CAPACITIES (+/- PSF)			
DIMENSION (MAX.)		MULLION	JAMB
FRAME HEIGHT	FRAME WIDTH	(M6) OR (M7)	(J6) OR (J7)
131"	70 1/8"	92	92



FLORIDA APPROVAL:
FL#19019.1

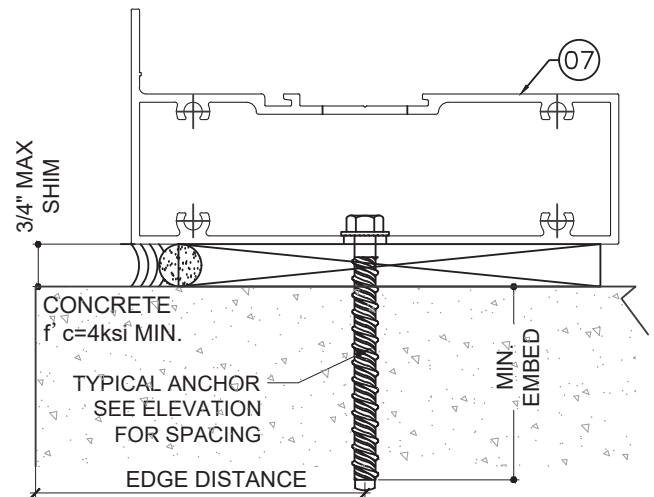
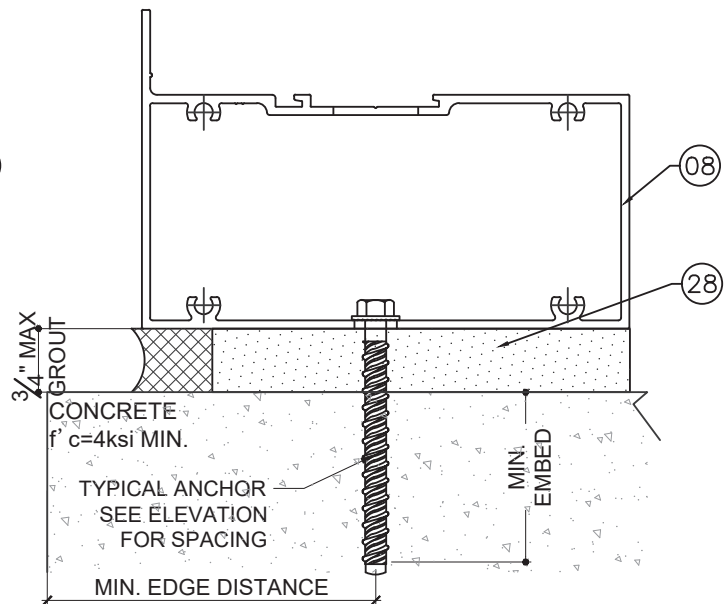
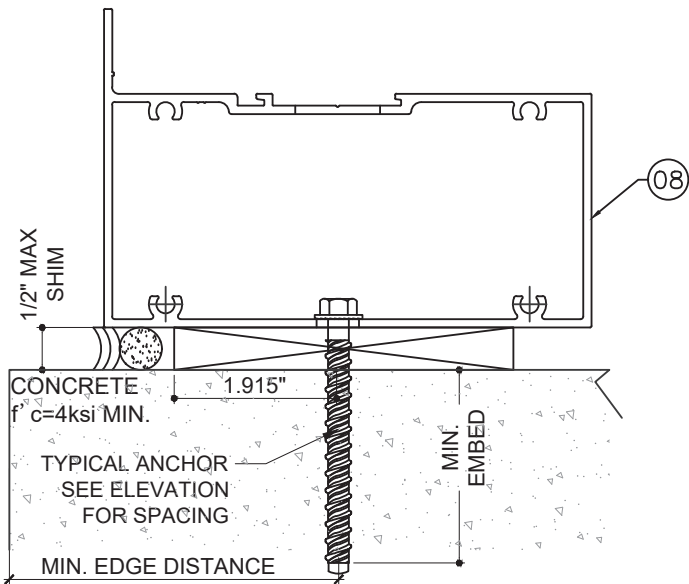
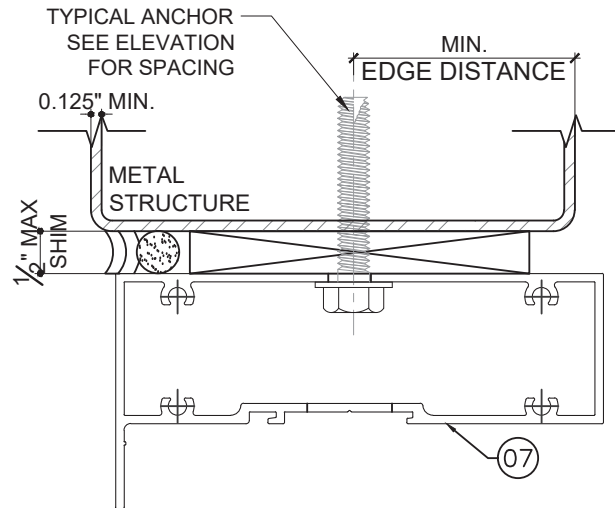
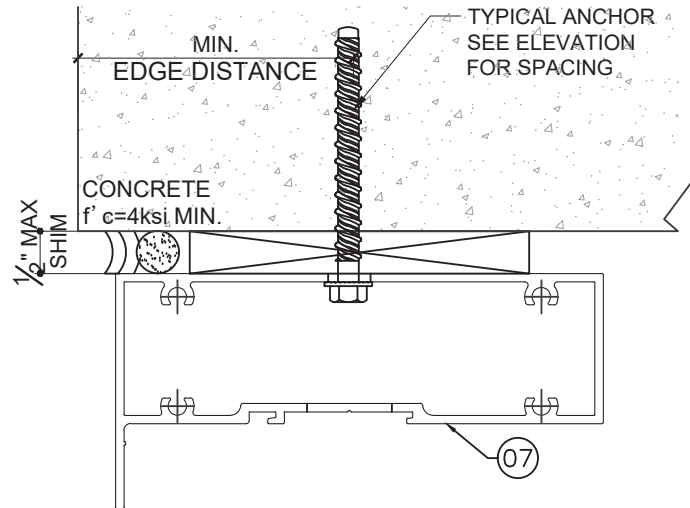
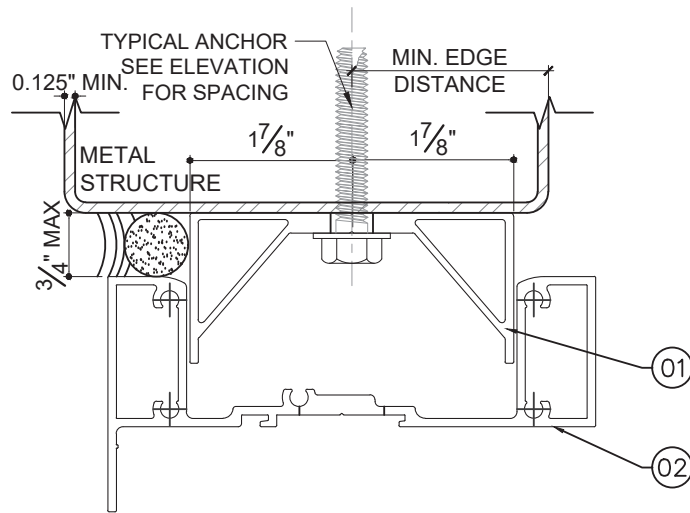
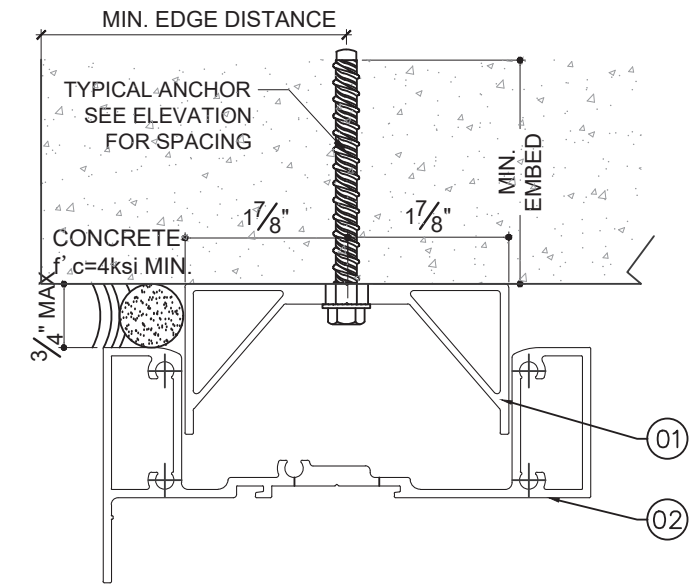


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-TYPICAL ANCHORS: (SEE ELEVATIONS FOR SPACING, ANCHOR APPLIES TO ENTIRE SYSTEM.)

- A) 3/8" DIA. HILTI KWIK HUS EZ ANCHOR
(Fu = 123 KSI, Fy = 96 KSI)
2 1/2" MIN. EMBED INTO 4000 psi MIN. CONCRETE. MIN. EDGE DIST. = 3 1/2"
- B) 3/8" DIA. ELCO TAP-FLEX (Fu = 120 KSI, Fy = 92 KSI)
INTO 1/8" MIN. STEEL OR 3/16" THK. ALUM. (6063-T5 MIN). MIN. EDGE DIST. = 1 1/2"
OR 3/8" DIA. MACHINE BOLTS GRADE 5
INTO 1/8" MIN. STEEL OR 3/16" THK. ALUM. (6063-T5 MIN). MIN. EDGE DIST. = 1 1/2"
- C) 5/16" DIA. DIA. DEWALT ULTRA CON
(Fu = 177KSI, Fy = 155 KSI)
2" MIN. EMBED DIRECTLY INTO 4000 psi MIN. CONCRETE. MIN. EDGE DIST. = 3 1/2"

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.



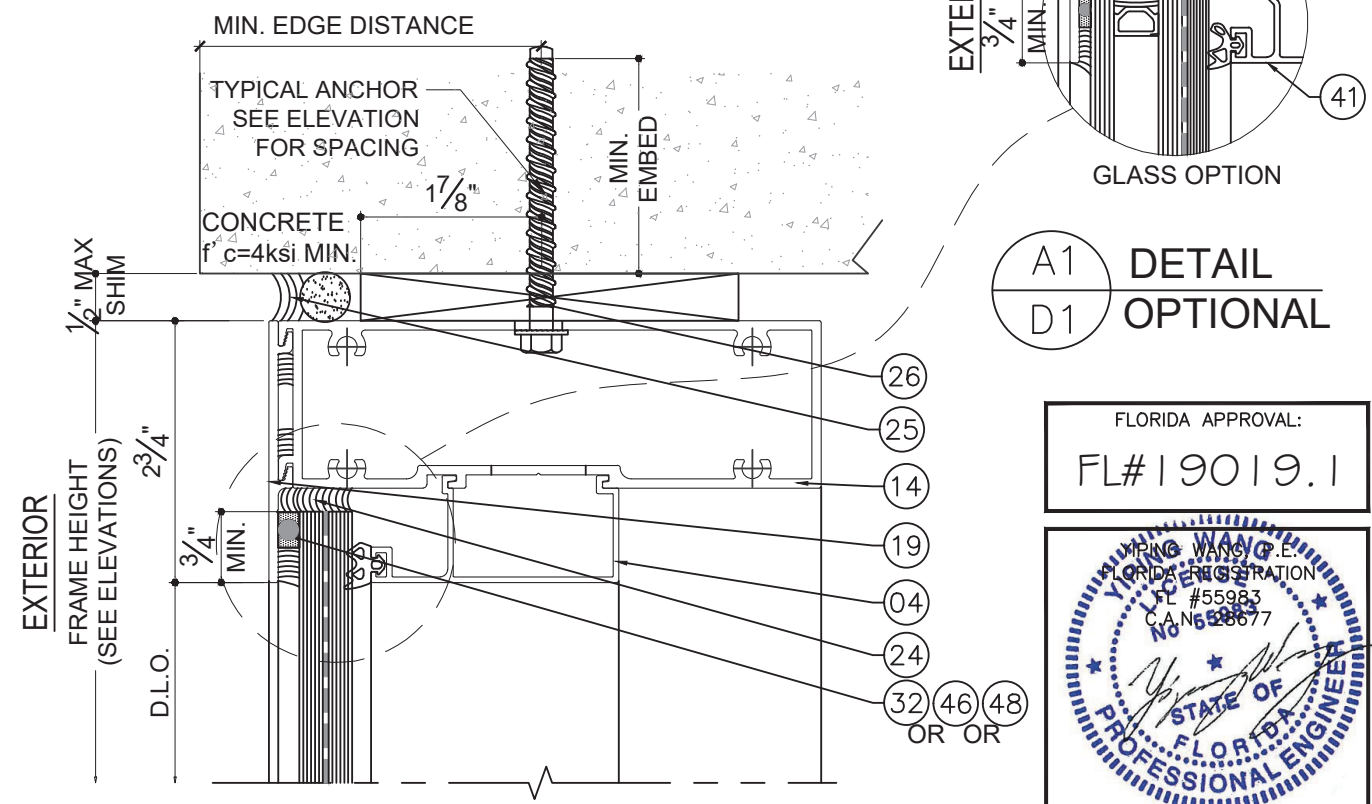
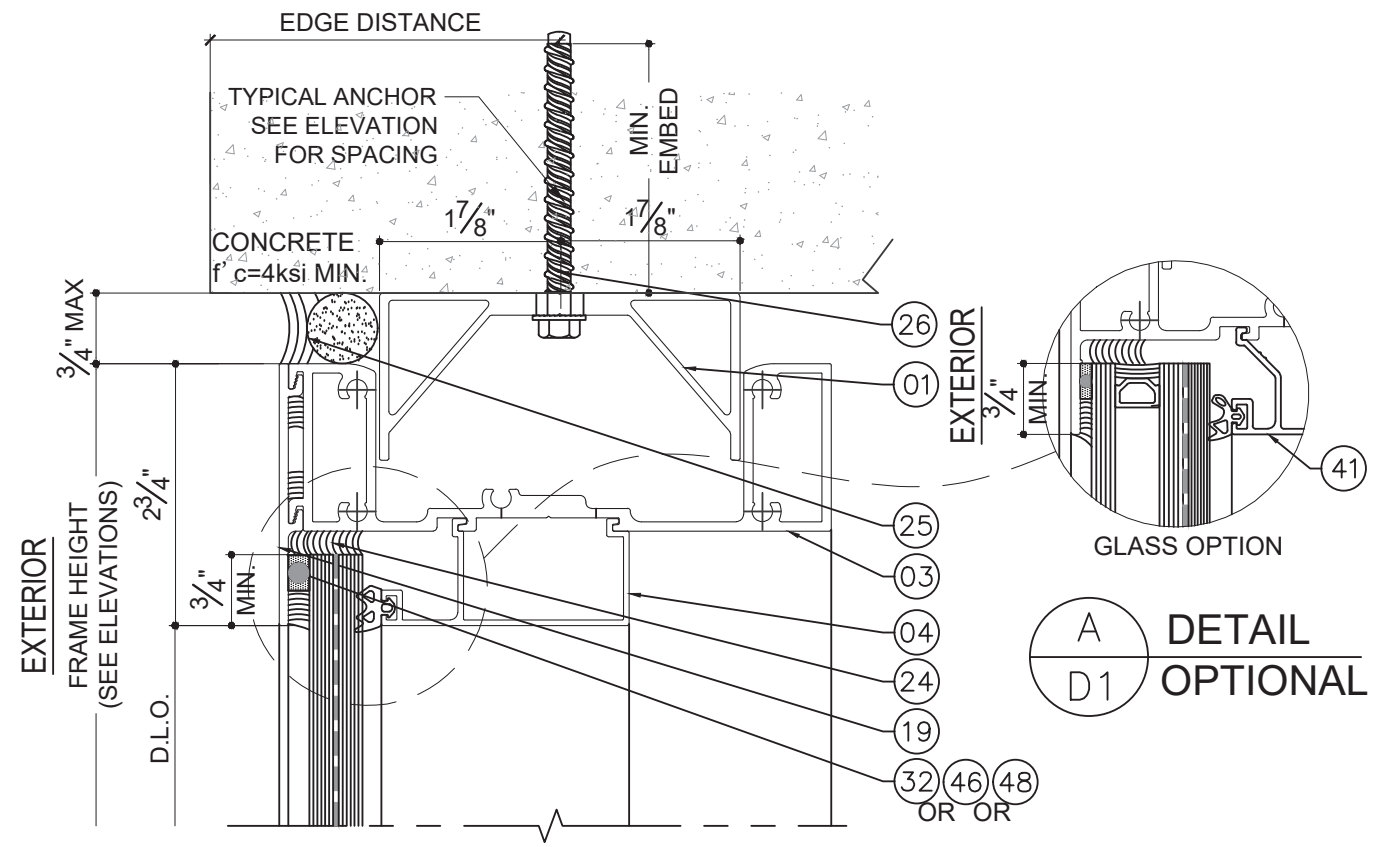
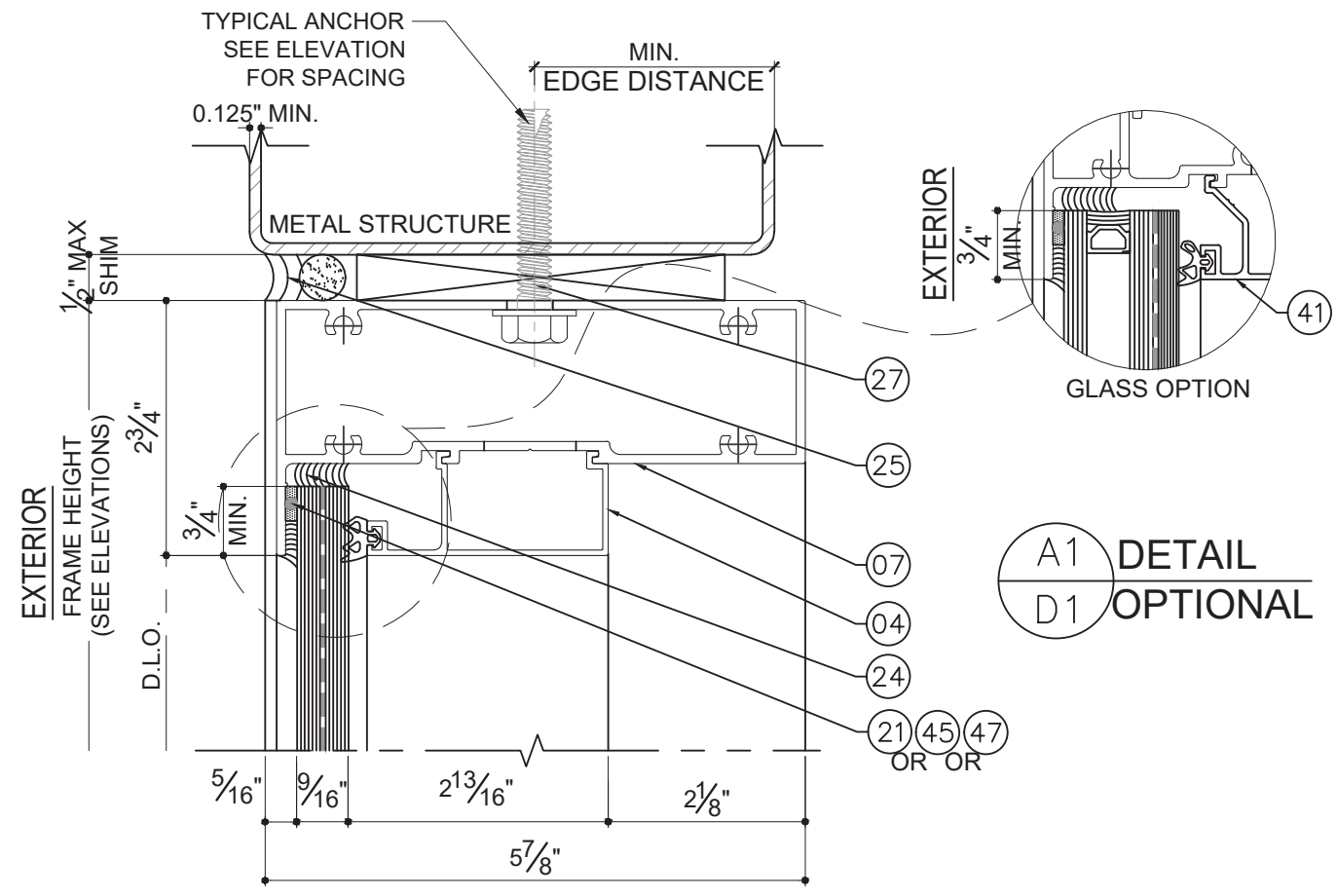
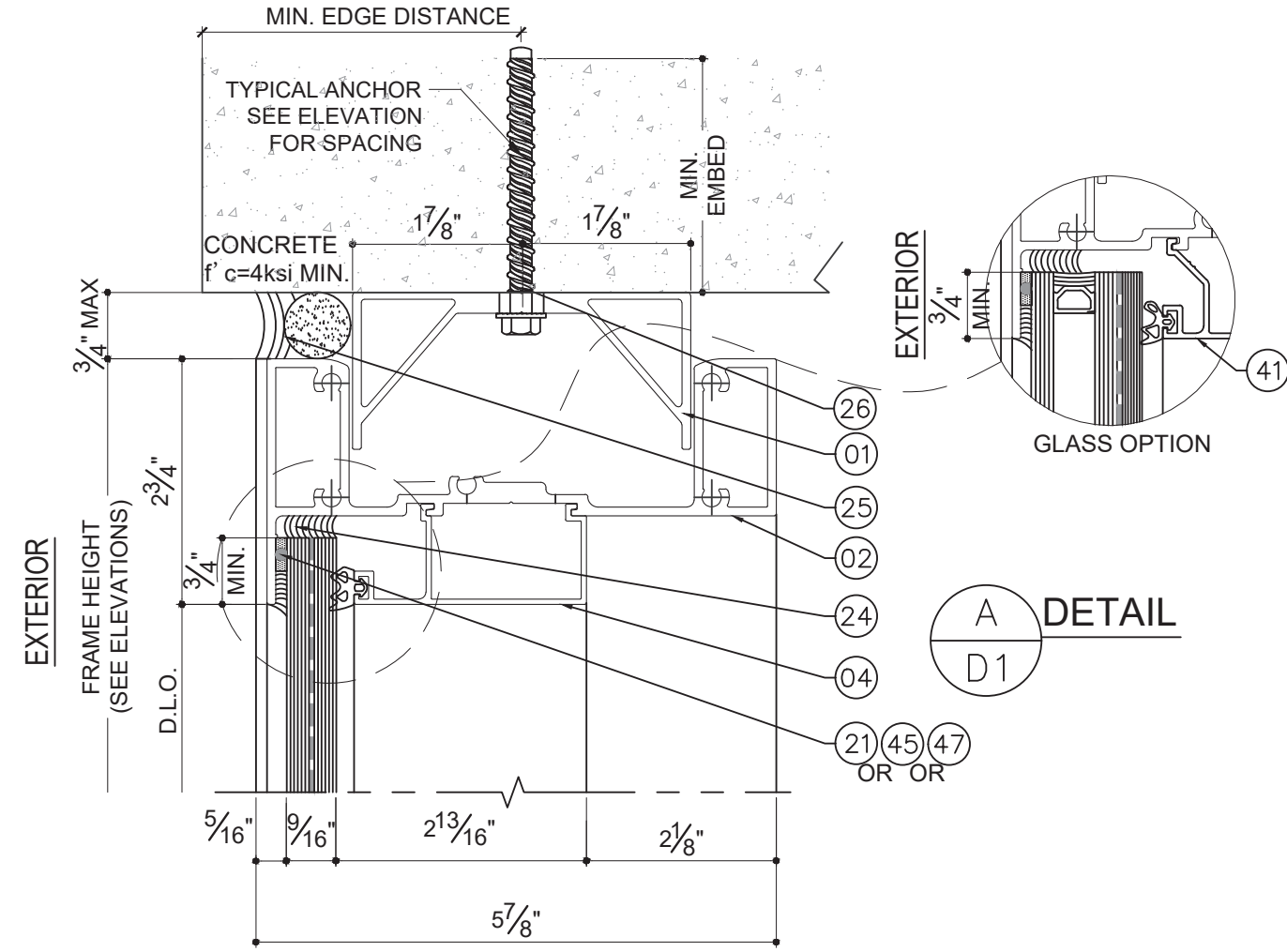
FLORIDA APPROVAL:
FL#19019.1

YOUNG WANG & ASSOCIATES, P.C.
FLORIDA REGISTRATION
FL #55983
C.A. No. 558677
September 4th, 2024

SERIES WW20 WINDOW WALL SYSTEM - SMI
GLOBAL PERFORMANCE WINDOW INC.
DBA. EPSYLON USA
1881 SW 3ST POMPAO BEACH, FL 33069
TEL. (954)-942-3322

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mcy@mcyengineering.com

Rev. No.	Date	Drawn By	Description
R3	08/13/2024	JAMES	REVISION
Drawn Date	08/13/2024	Scale	AS SHOWN
Drawing No.	AD15-06		
Sheet No.	A1		
	10 OF 22		



FLORIDA APPROVAL:
FL#19019.1

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FLORIDA REGISTRATION
FL #55983
C.A. No. 28877

September 4th, 2024

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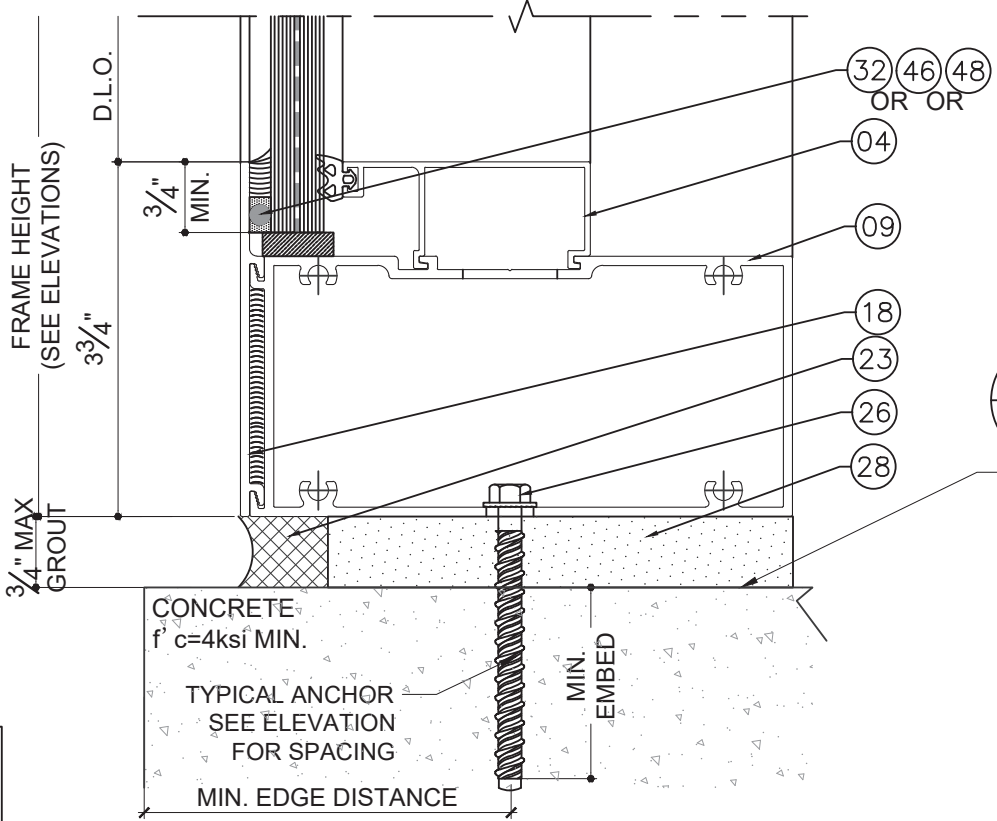
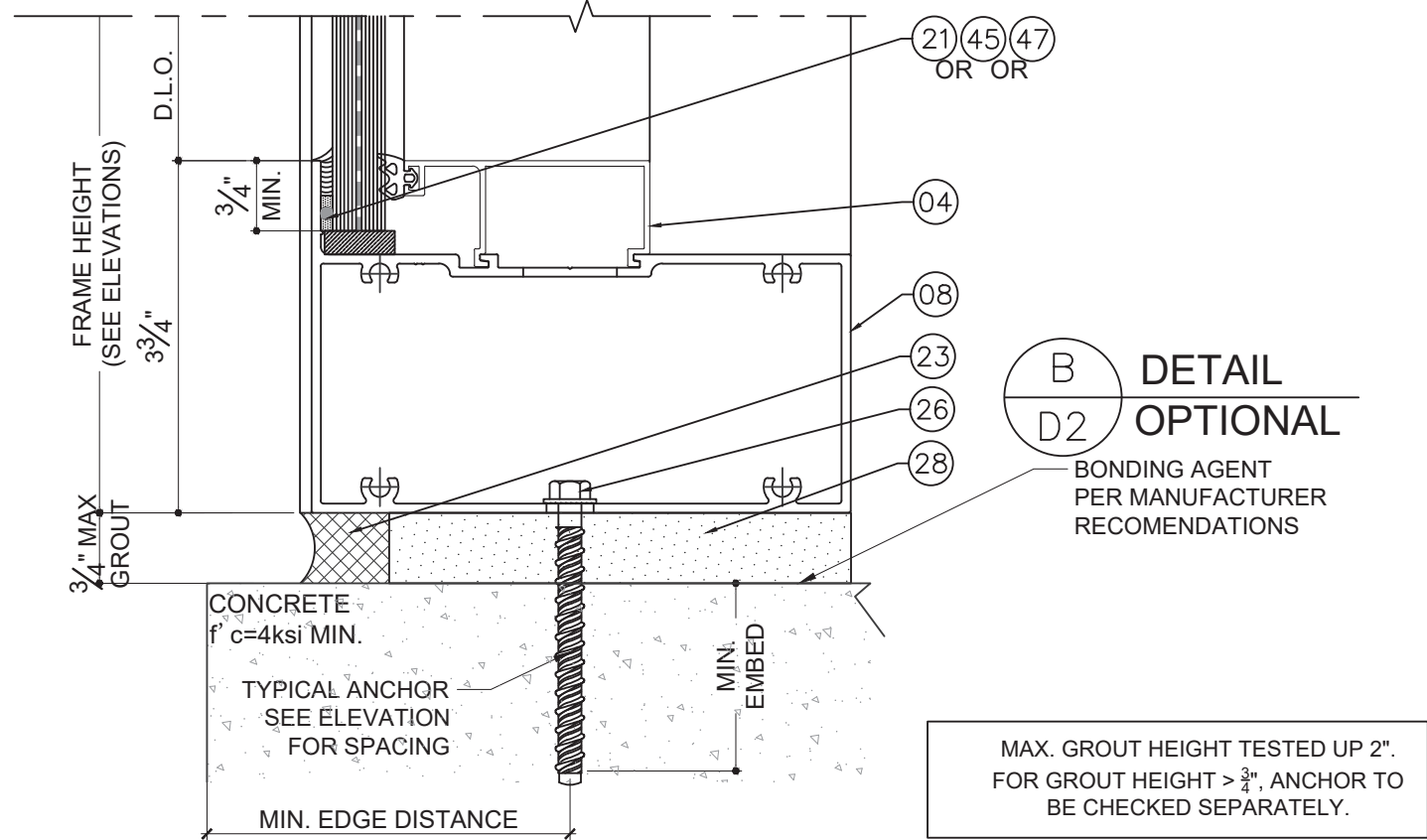
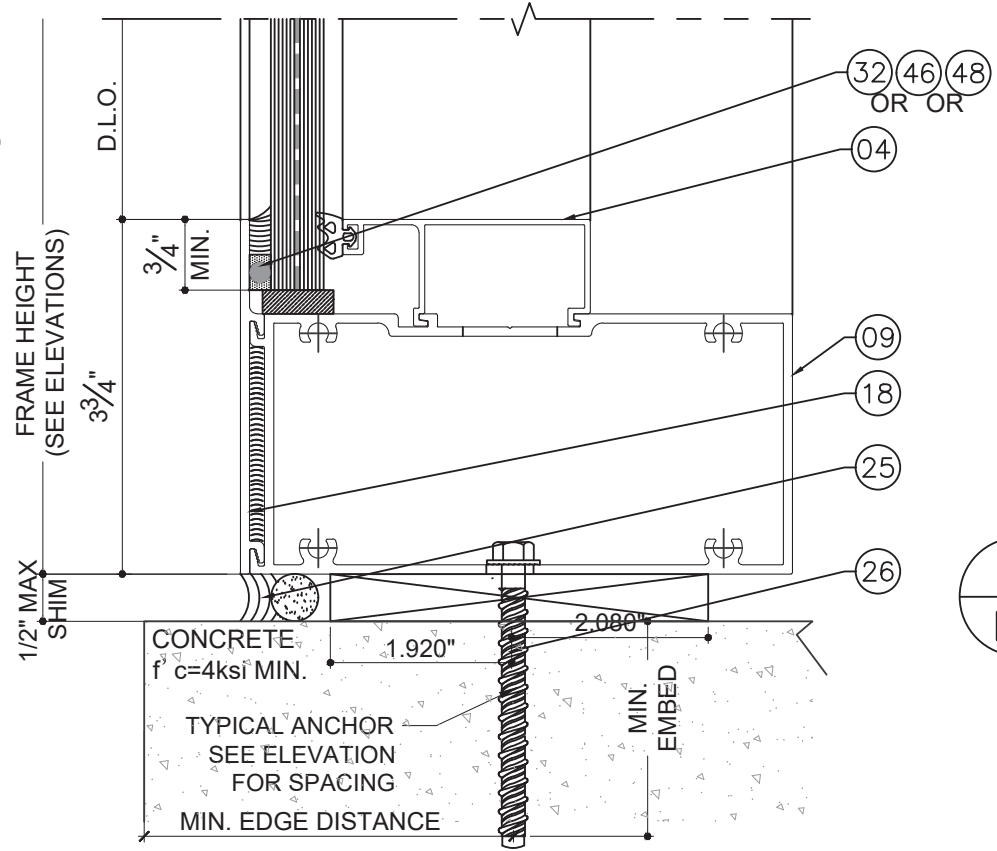
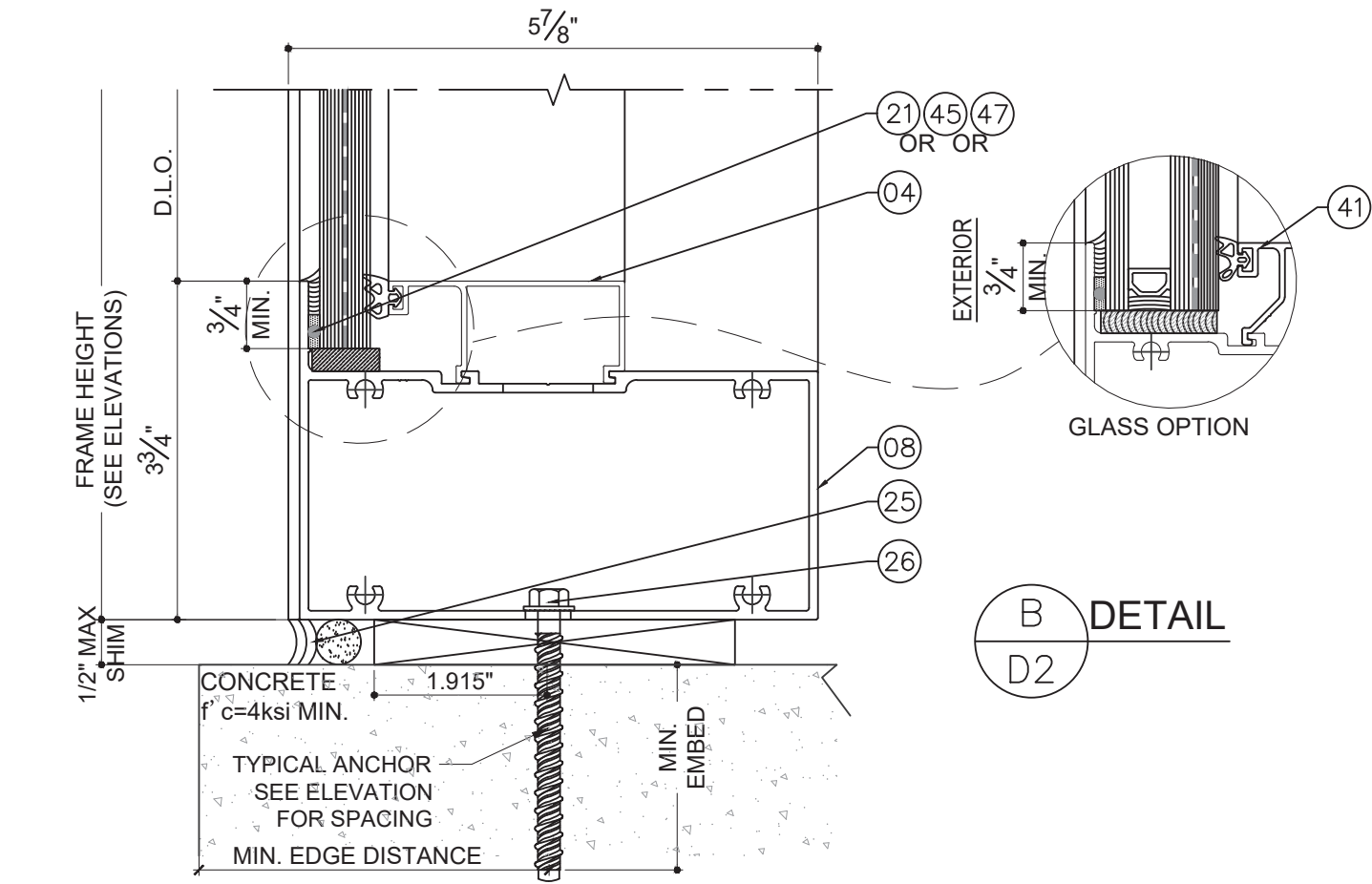
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Drawn Date
08/13/2024

Scale
AS SHOWN

DRAWING NO.
AD15-06

Sheet No.
11 OF 22



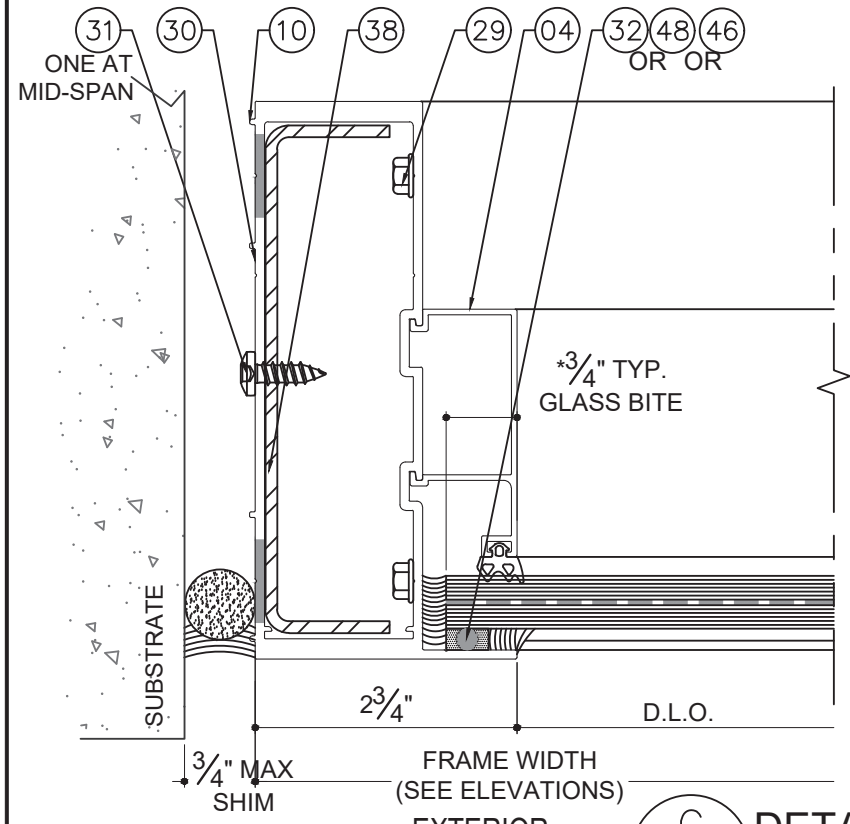
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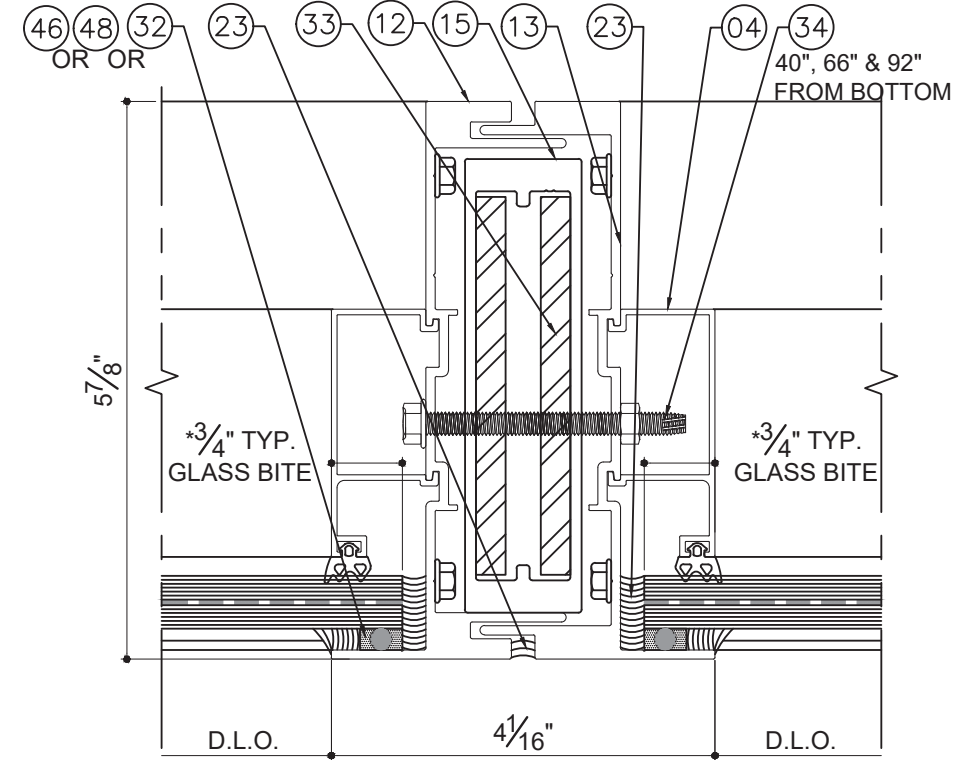
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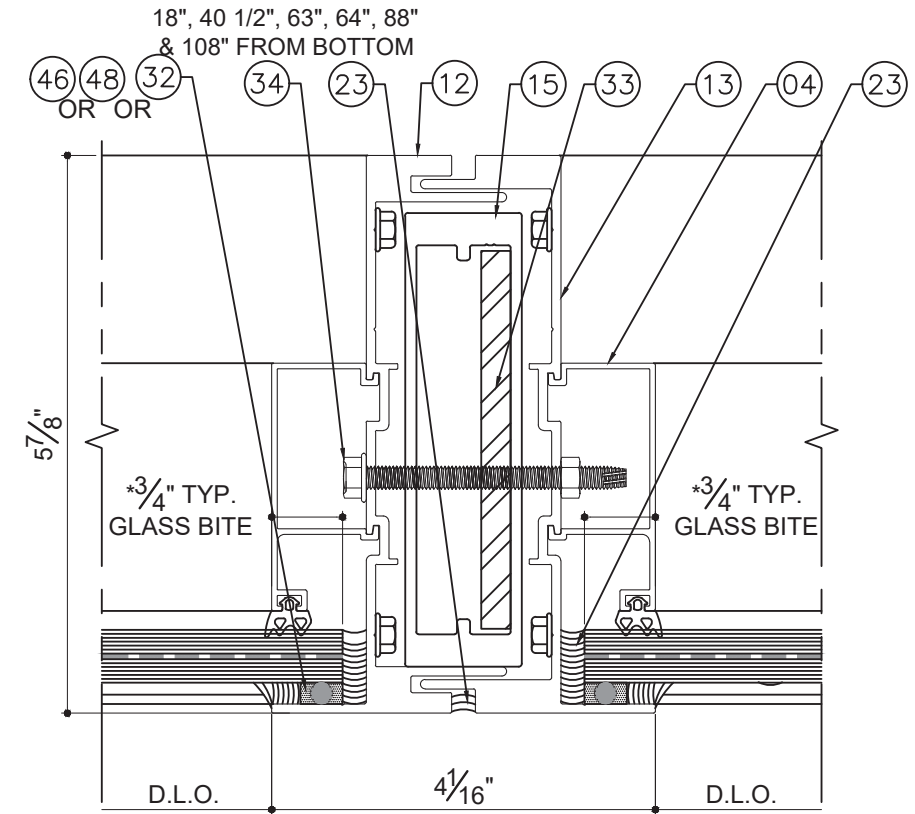
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Drawn Date	08/13/2024	Scale	AS SHOWN
Drawing No.	AD15-06	Sheet No.	12 OF 22



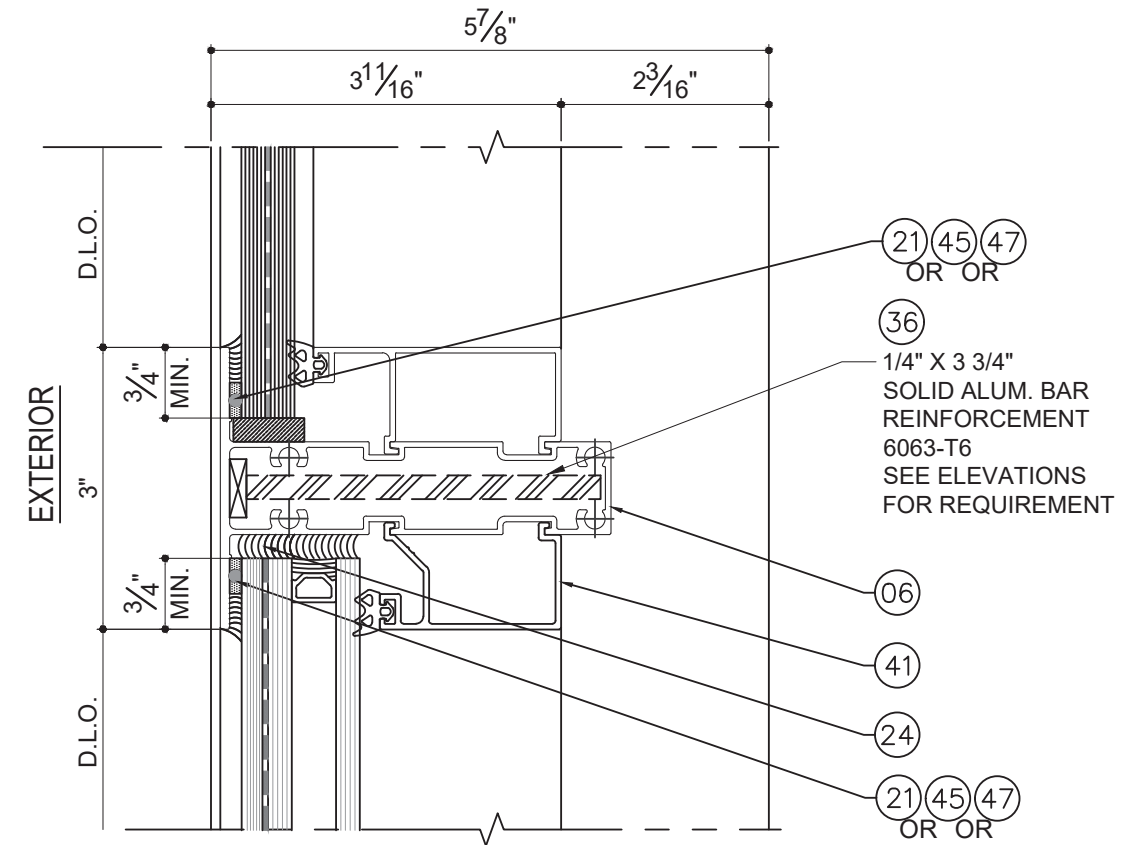
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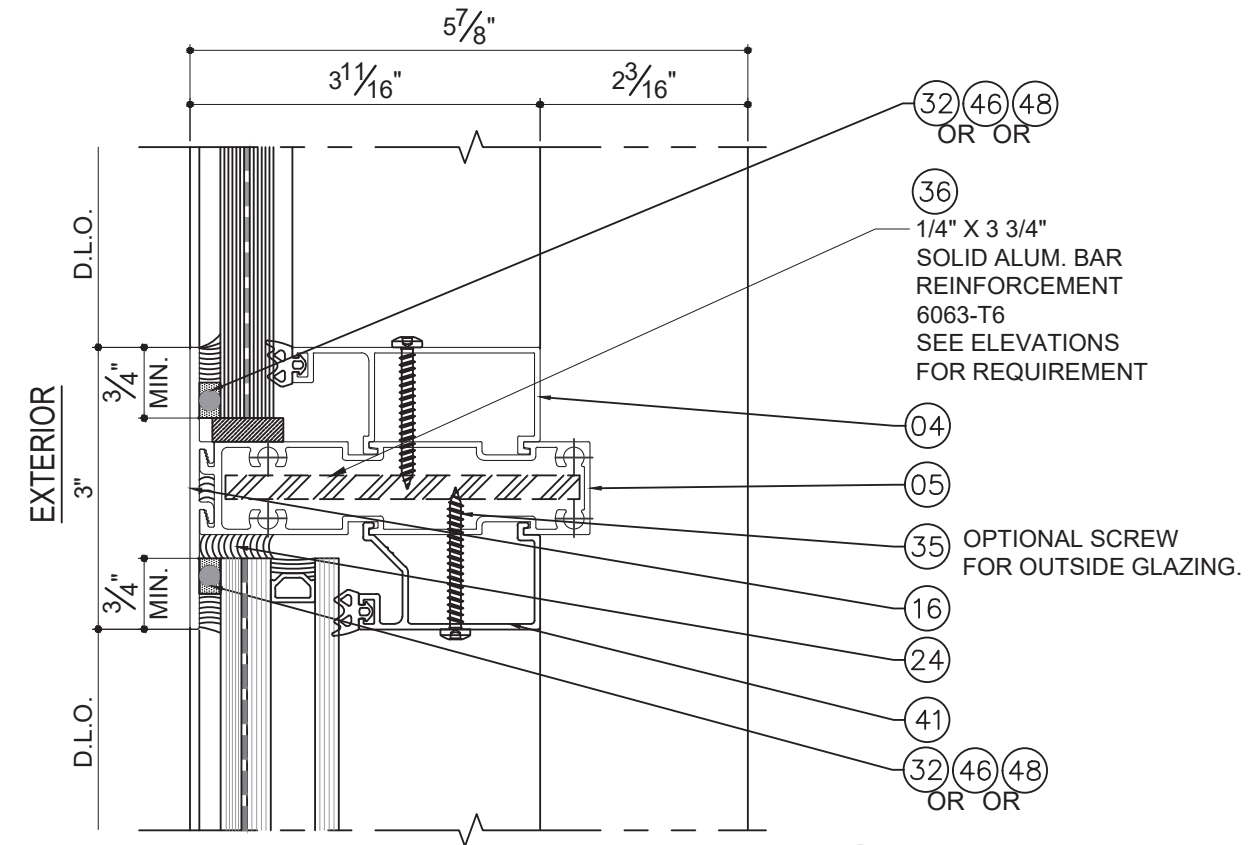
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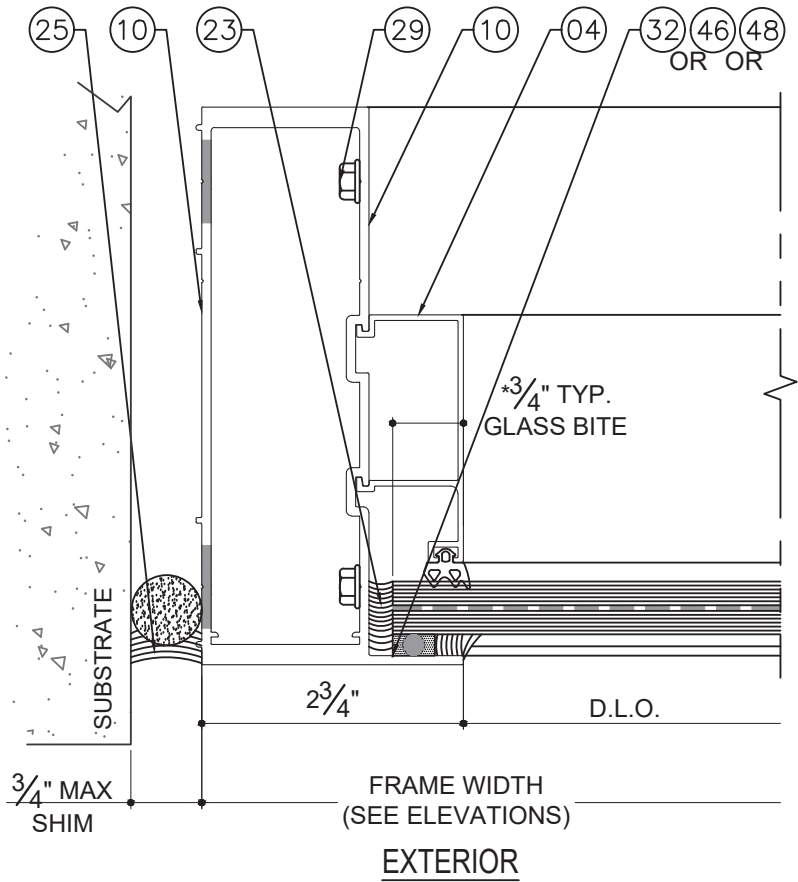
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*NOTE:
GLASS BITE IS 3/8" MIN.
(FOR SPANDREL GLASS APPLICATIONS)

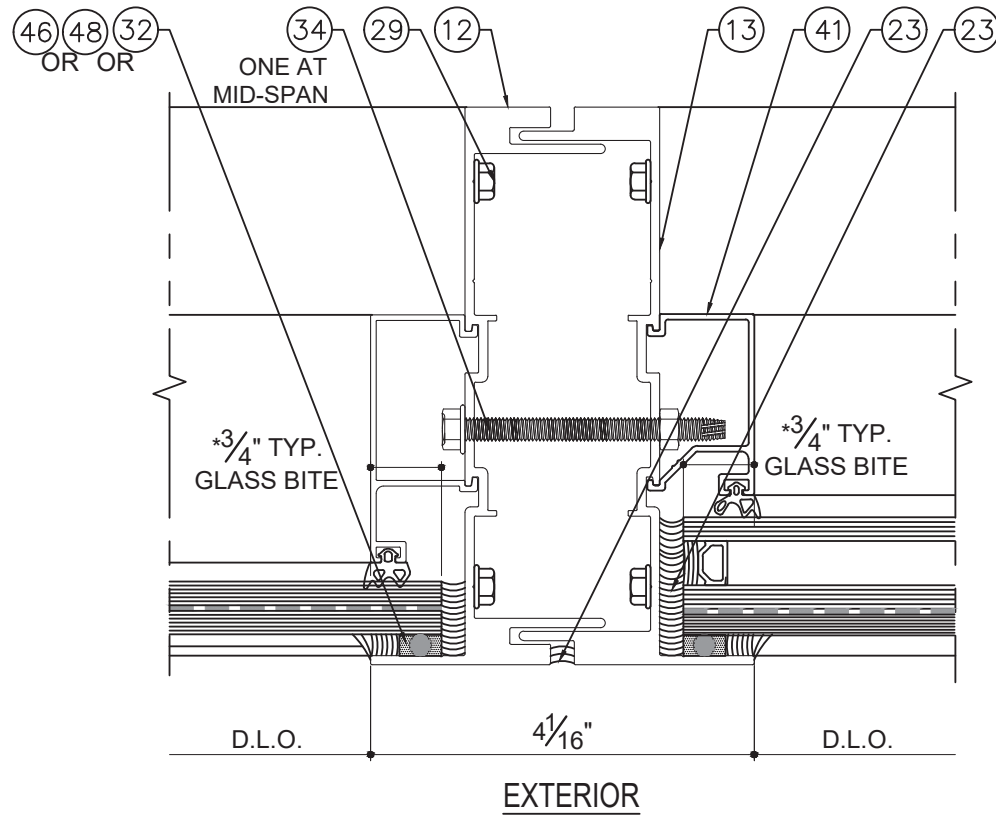
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Drawn Date 08/13/2024 Scale AS SHOWN			
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D3			
Sheet No. 13 OF 22			

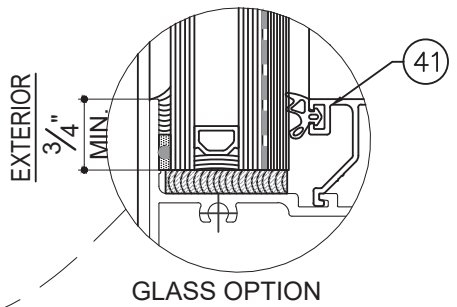
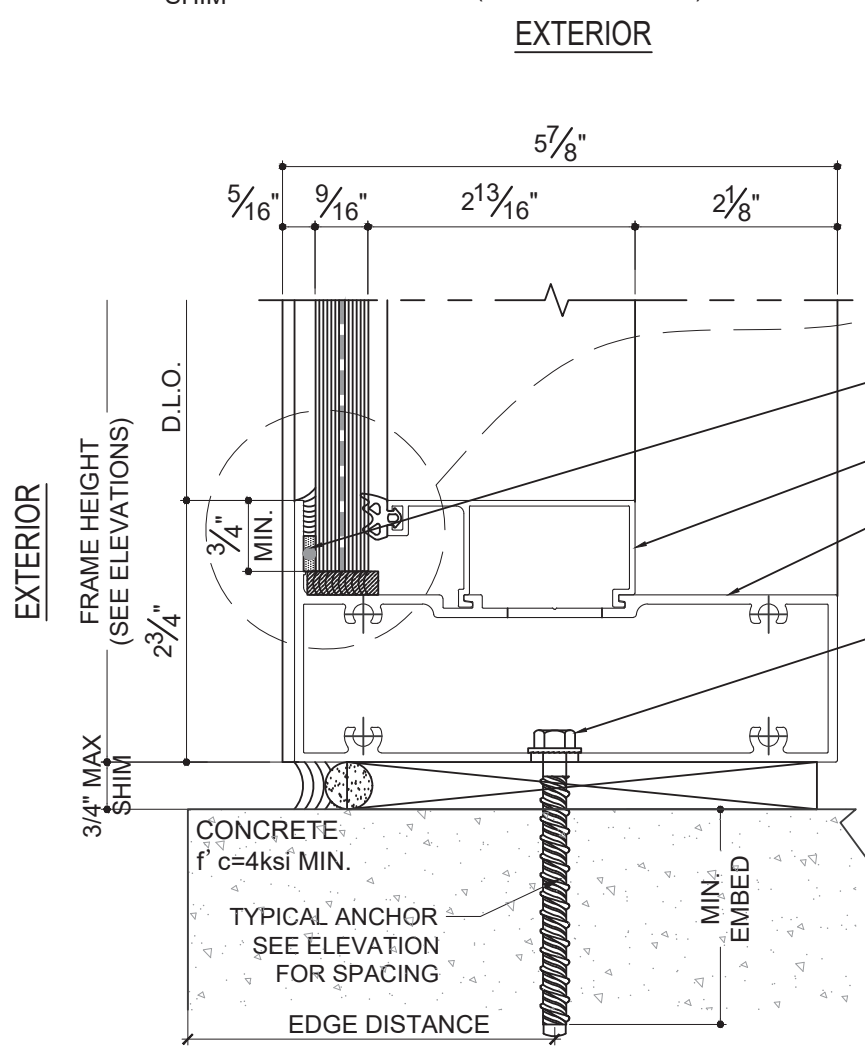


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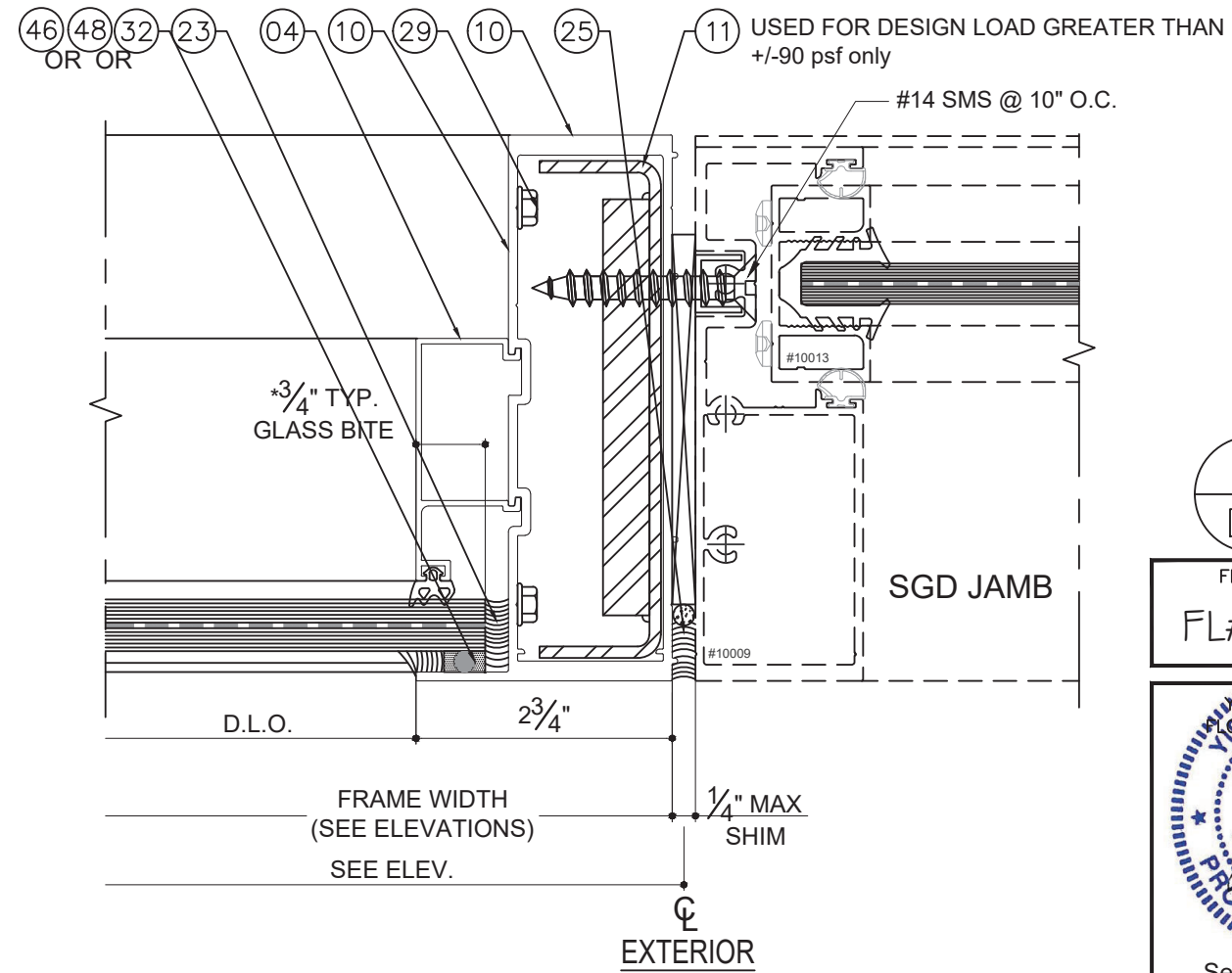


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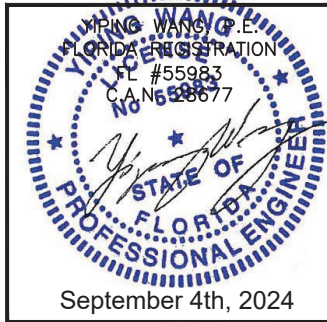


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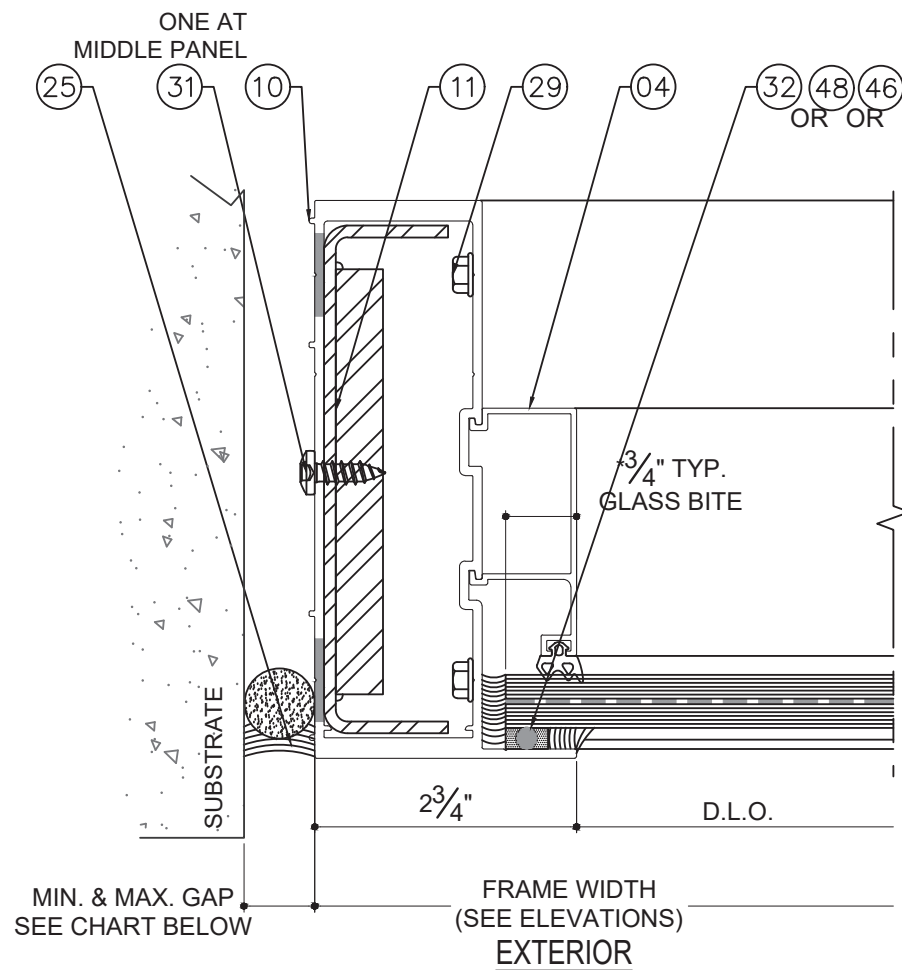
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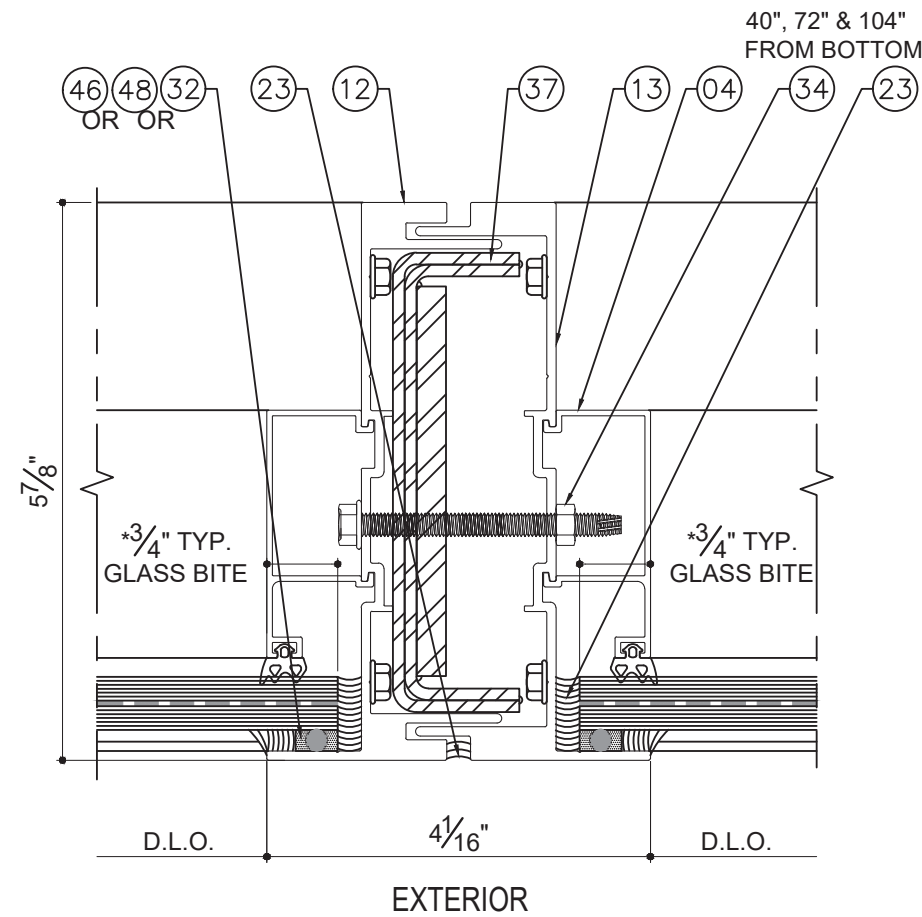
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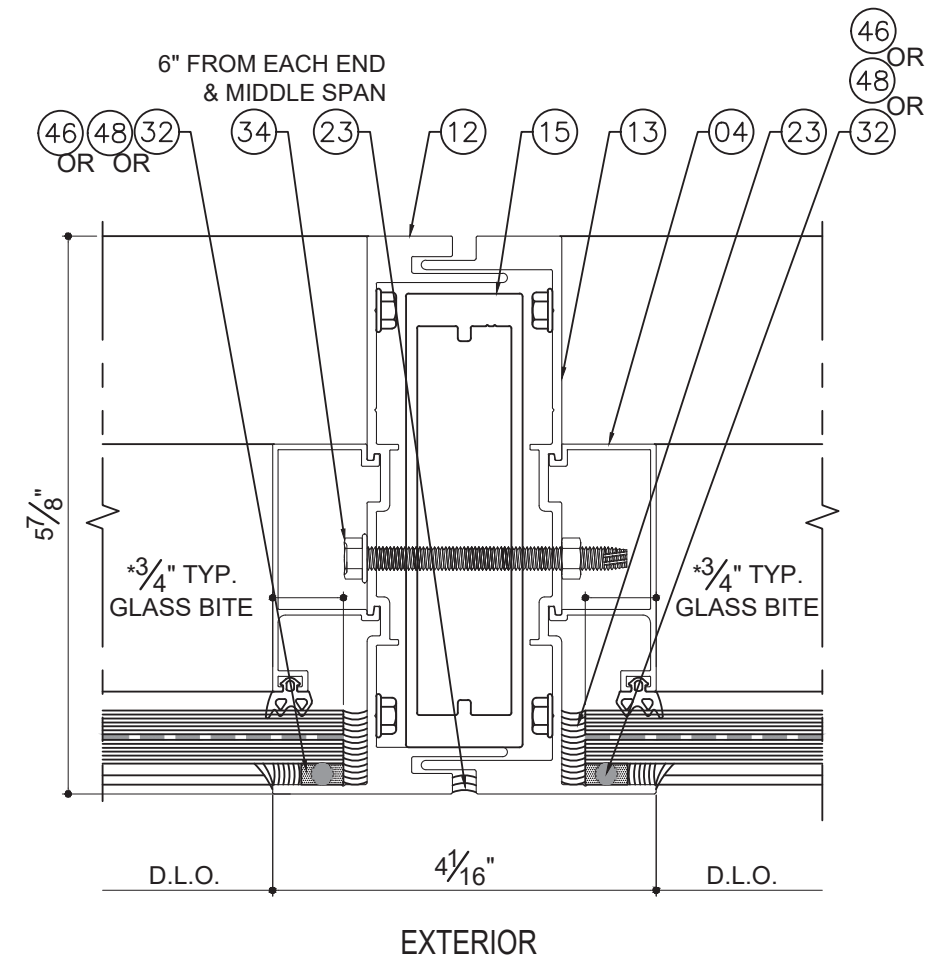
Rev. No.	Date	Drawn By	Description
R3	08/13/2024	JAMES	REVISION
AS SHOWN			
D4			
14 OF 22			



J
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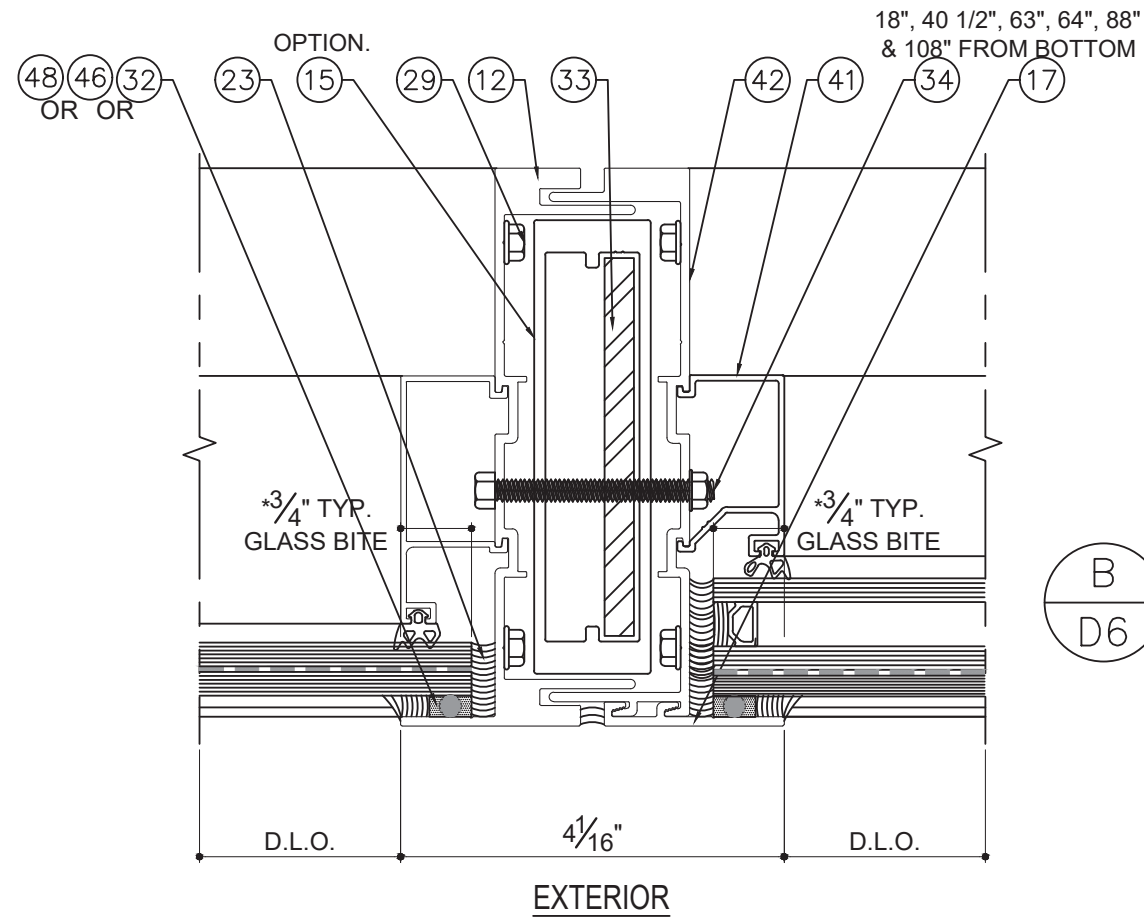
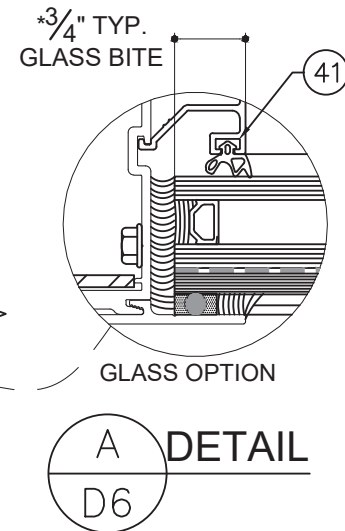
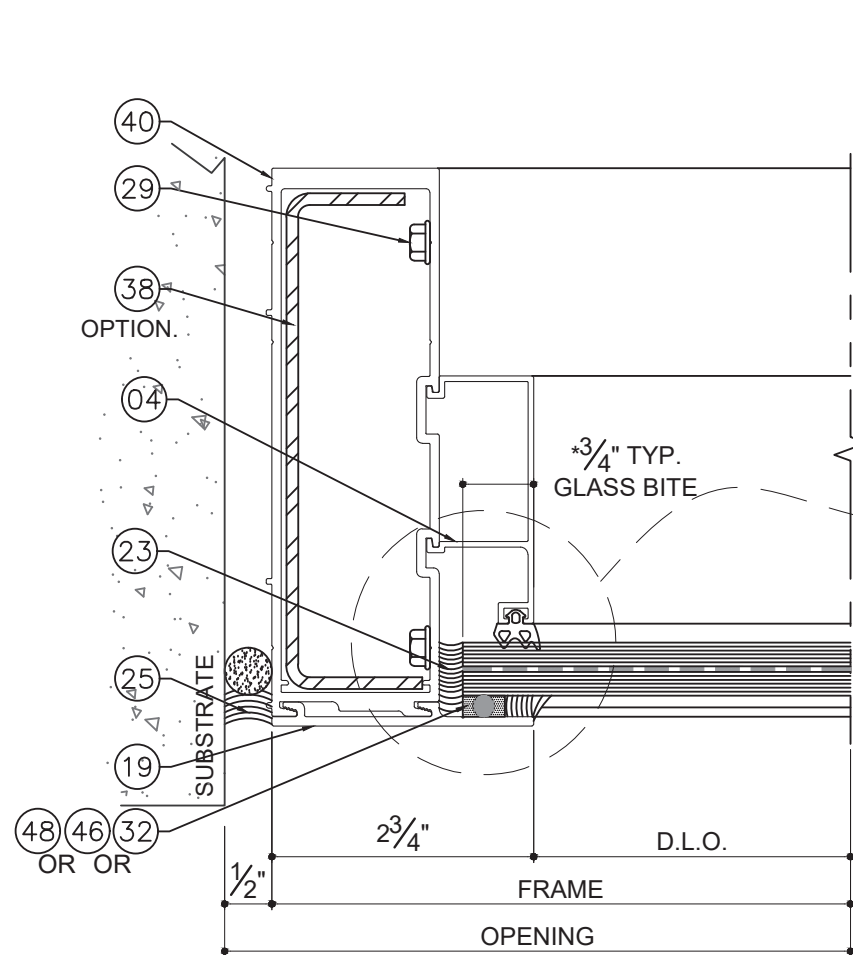
MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
60"	3/16"	1/2"
72"	1/4"	1/2"
84"	1/4"	1/2"
96"	3/8"	1/2"
108"	3/8"	1/2"
120"	1/2"	1/2"
132"	1/2"	1/2"
144"	1/2"	1/2"

MAX. FRAME WIDTH	MAX. GAP AT EACH SIDE
30 FT.	1-1/8"
60 FT.	1-1/8"

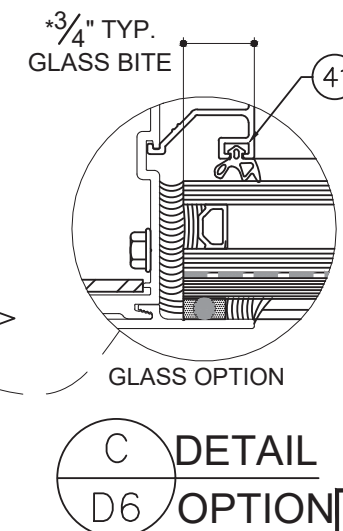
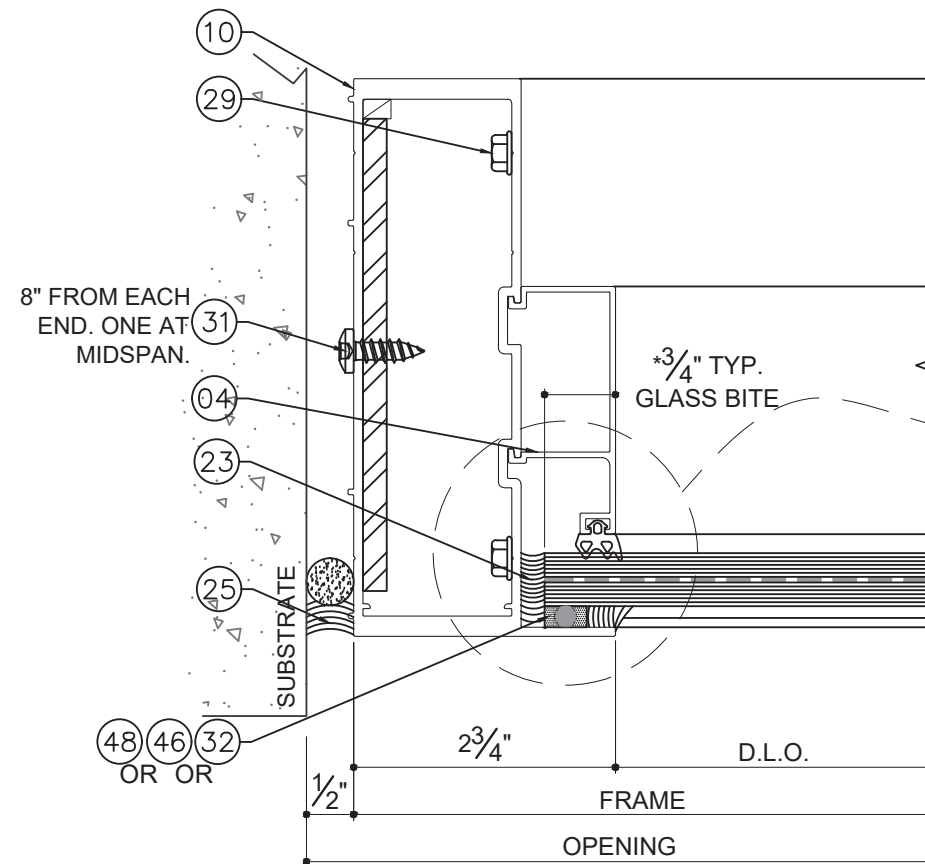
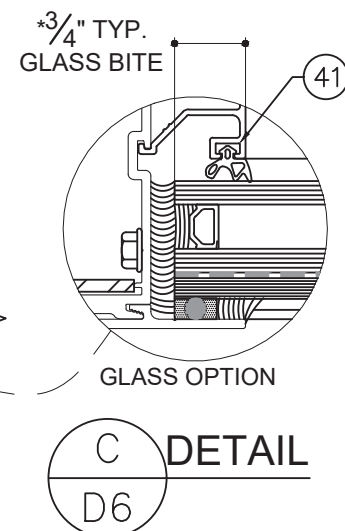
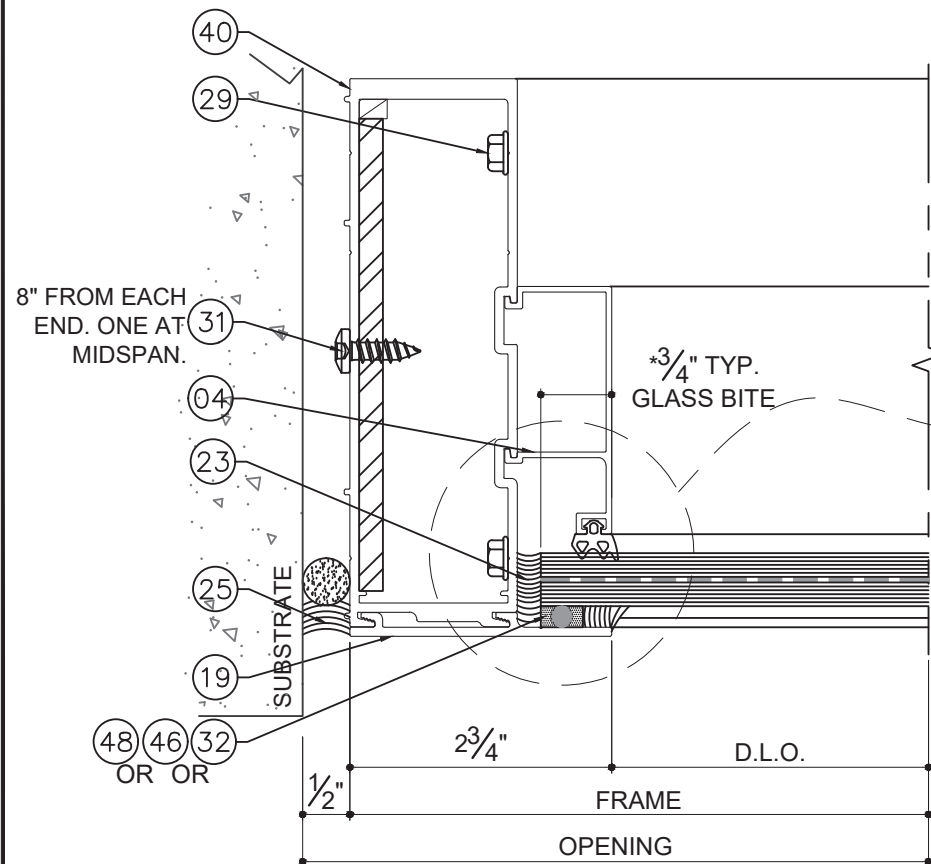
ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

FLORIDA APPROVAL:
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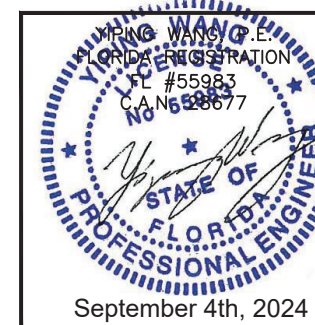
YOUNG WANG
FLORIDA REGISTRATION
FL #55983
C.A. No. 55983
September 4th, 2024



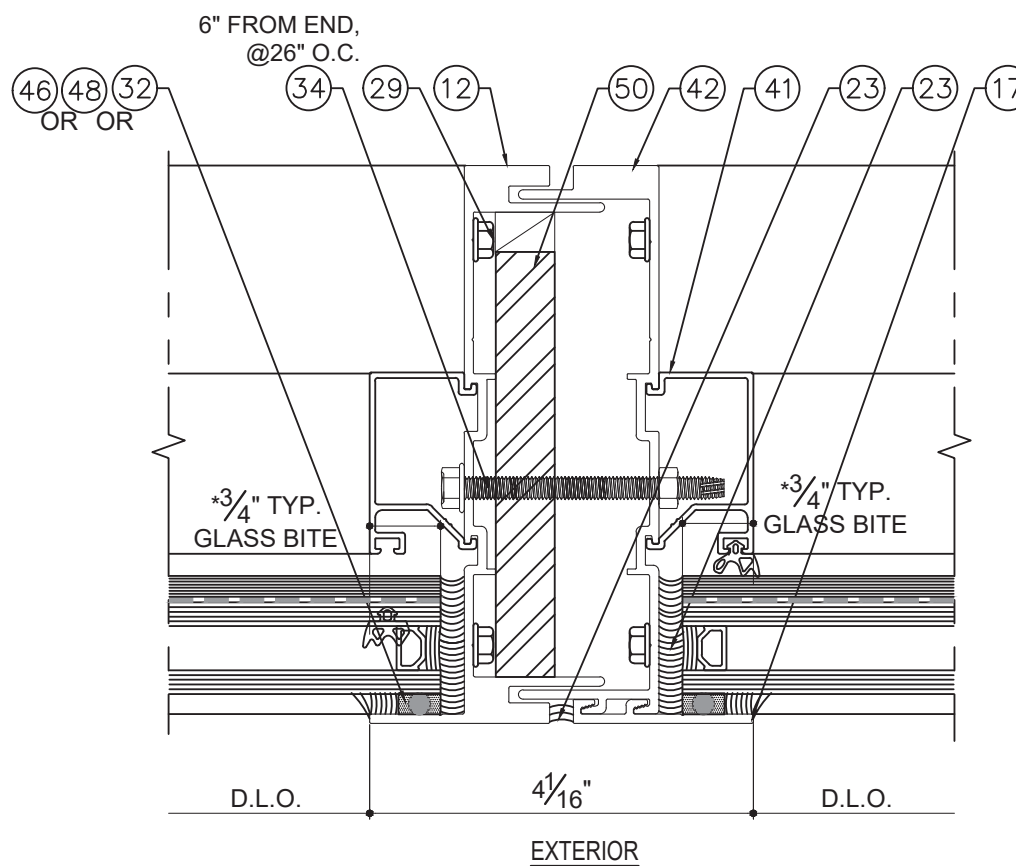
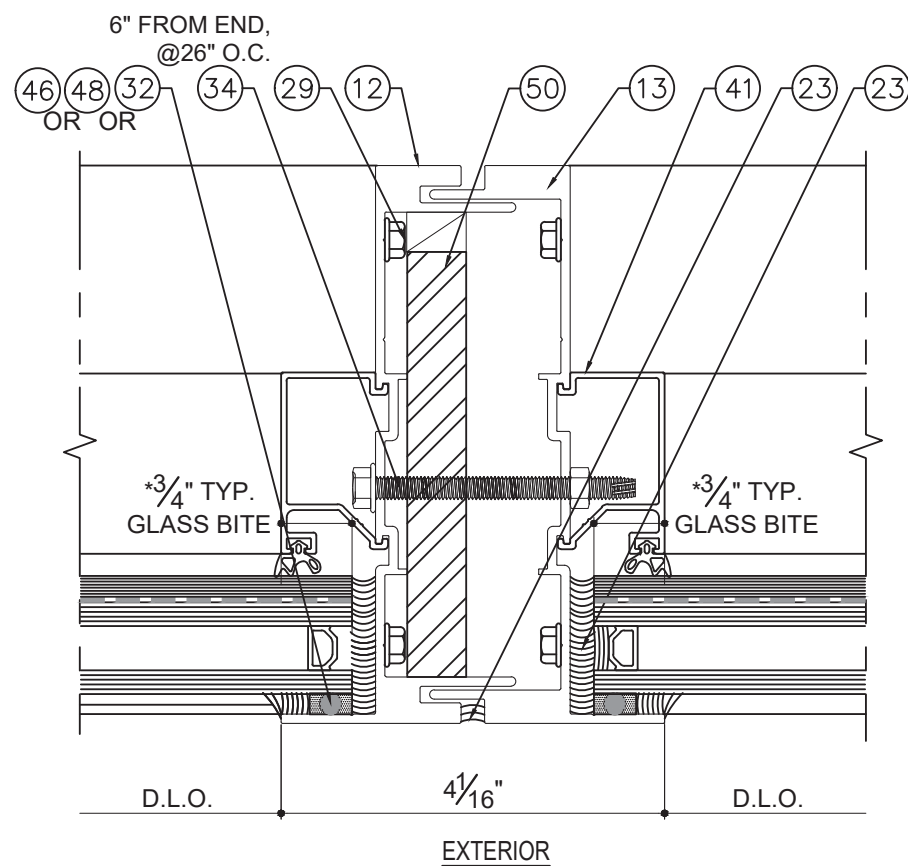
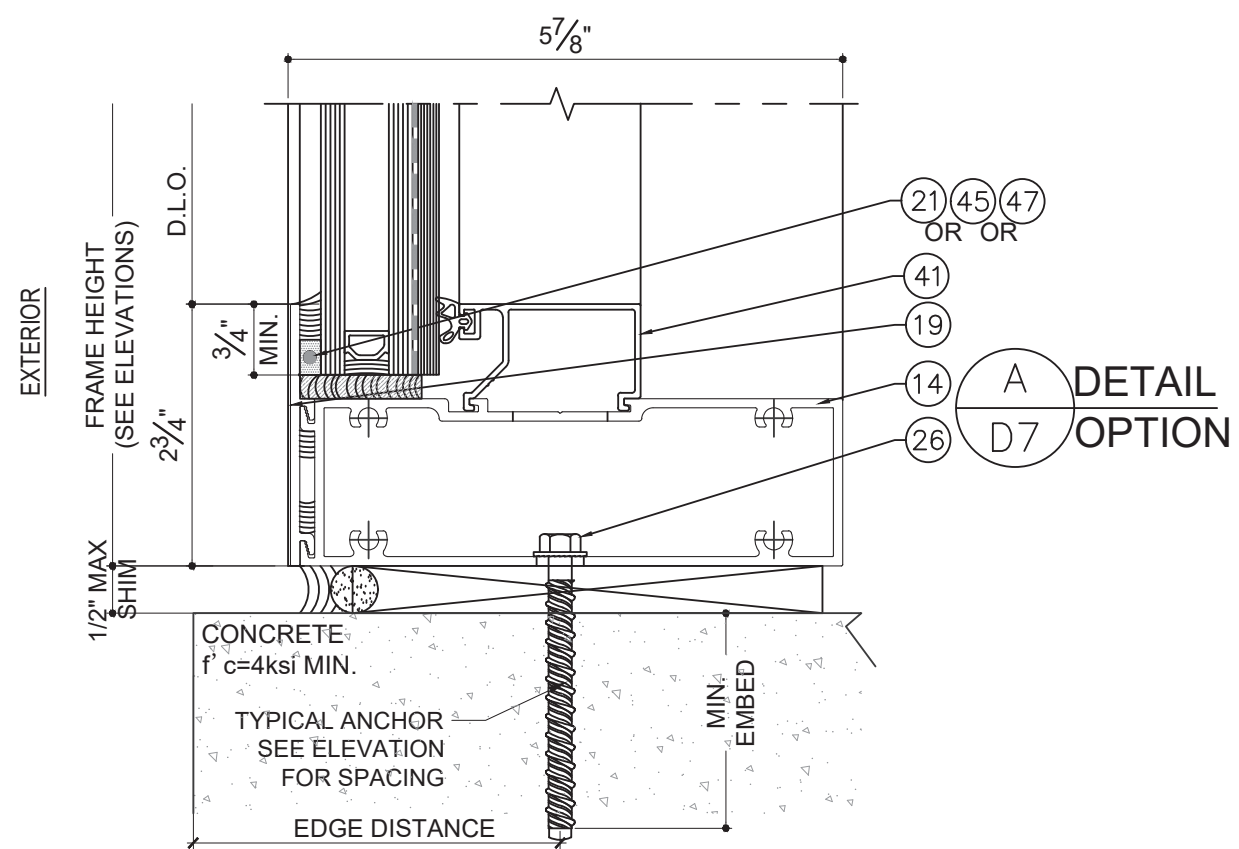
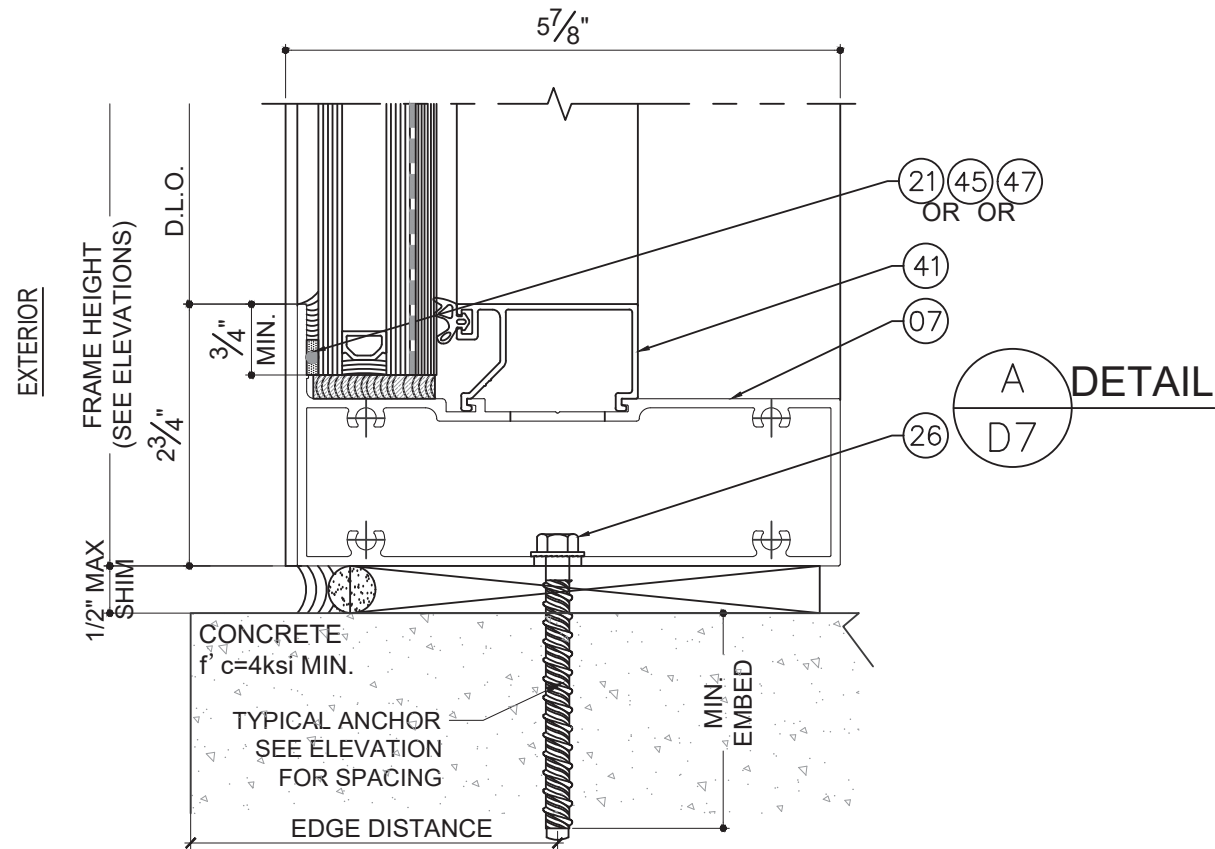
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Rev. No.	Date	Drawn By	Description
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Drawn Date: 08/13/2024 Scale: AS SHOWN			
Drawing No. AD15-06			
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16 OF 22			



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September 4th, 2024

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mcy@mcyengineering.com

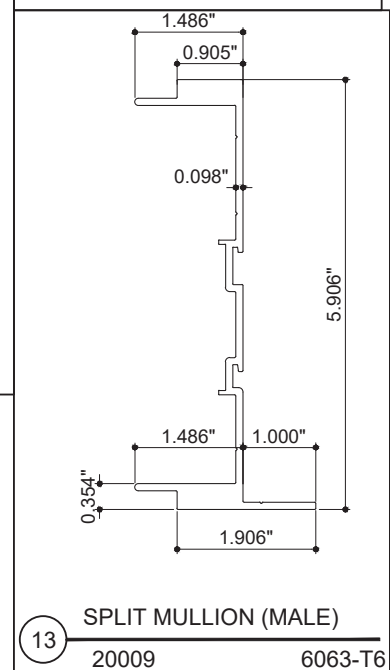
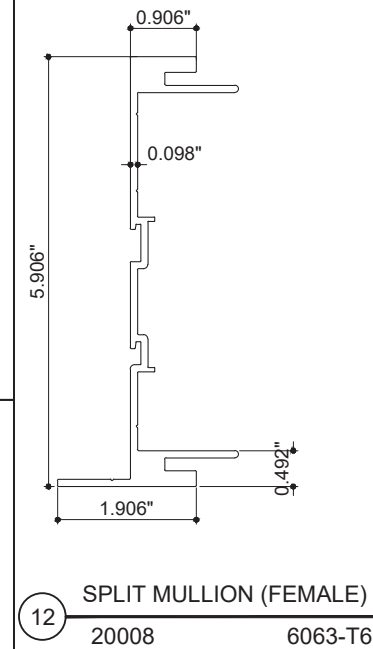
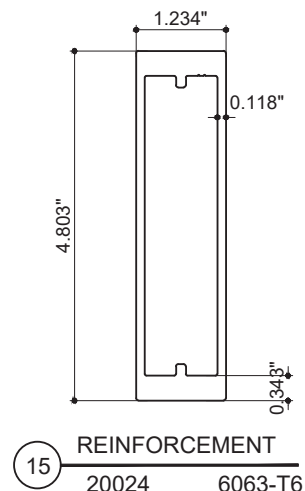
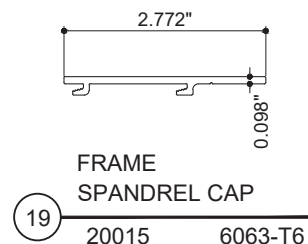
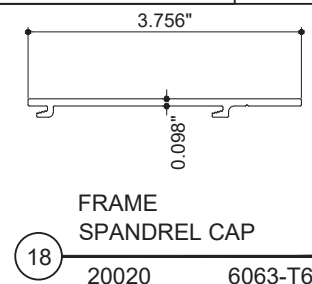
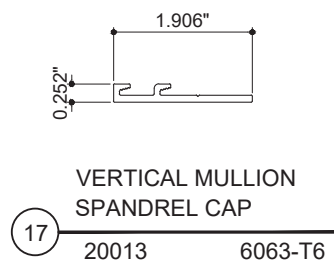
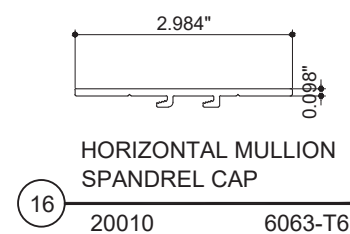
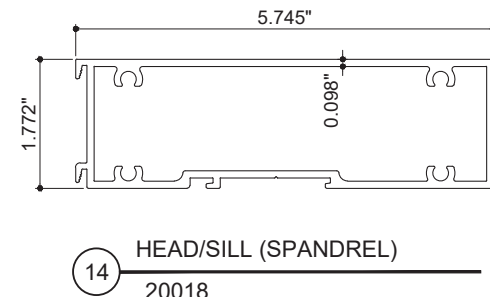
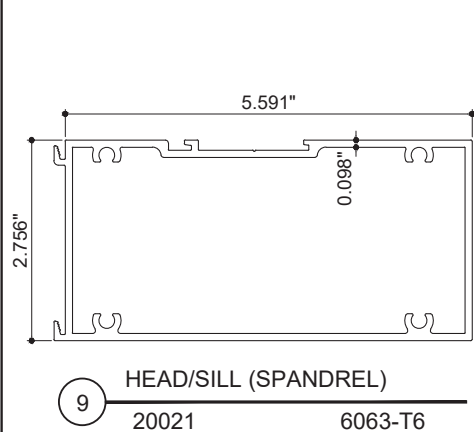
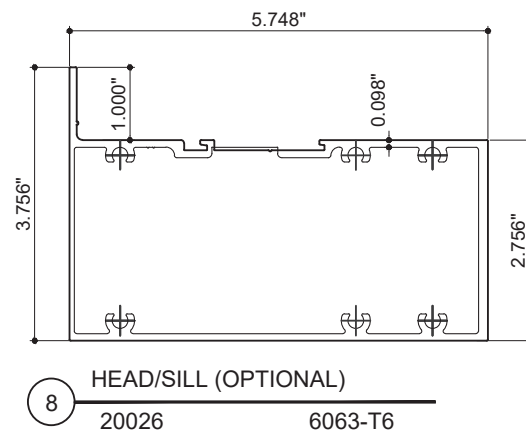
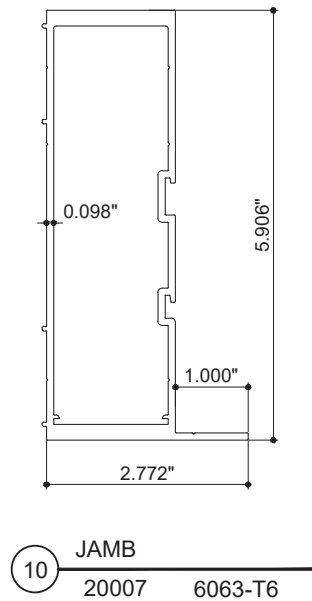
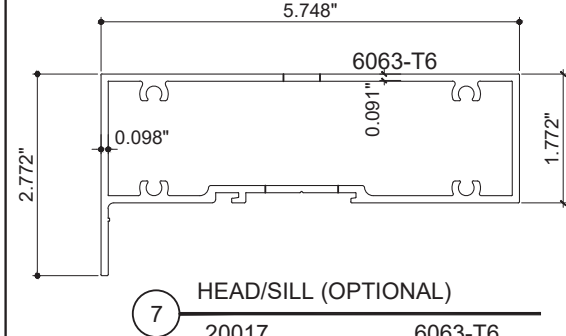
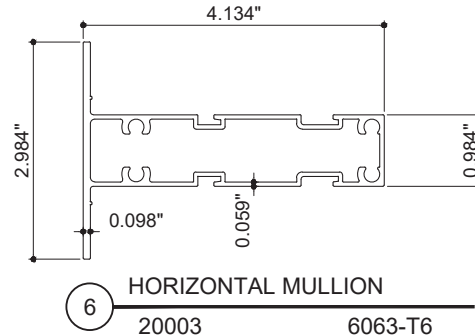
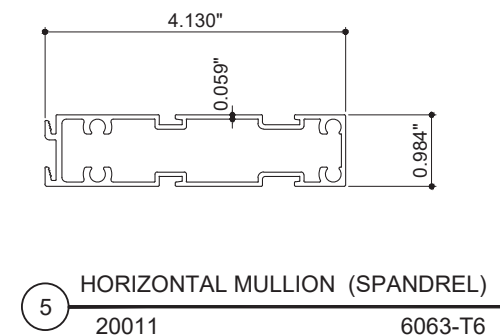
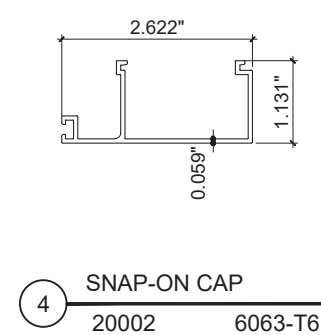
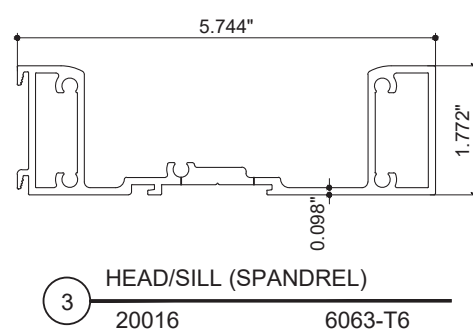
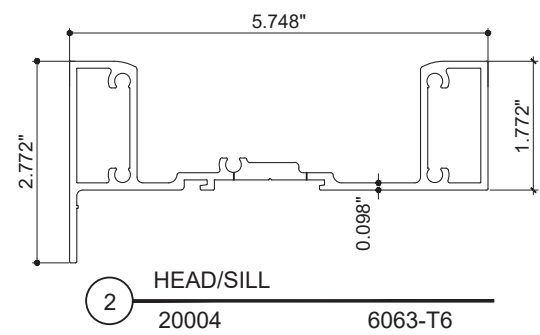
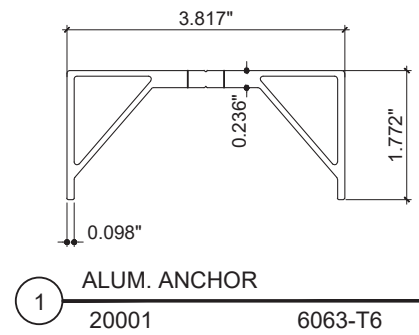
Rev. No.	Date	Drawn By	Description
R3	08/13/2024	JAMES	

Drawn Date: 08/13/2024
Scale: AS SHOWN

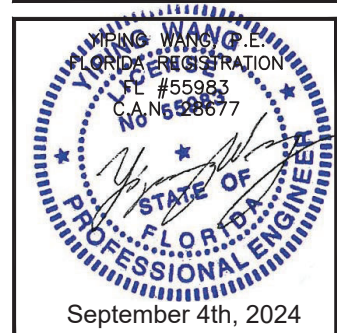
DRAWING NO.
AD15-06

D7

Sheet No.
17 OF 22



FLORIDA APPROVAL:
FL# 19019.1



MCY ENGINEERING, INC.
GLAZING CONSULTANTS

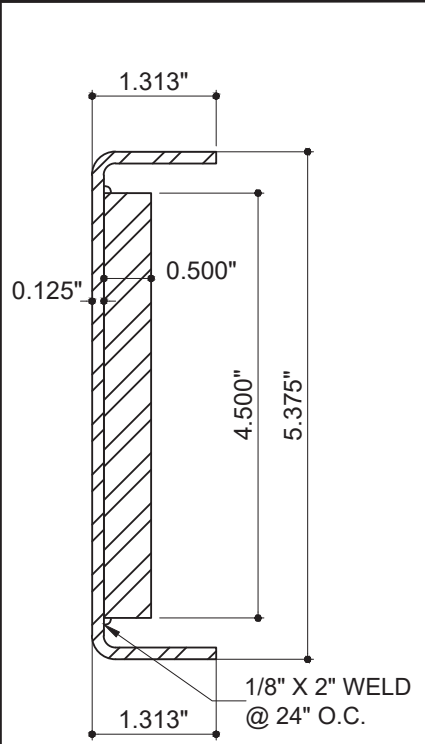
12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027 P: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

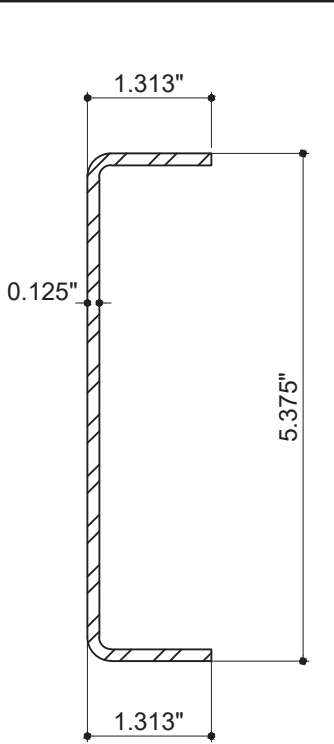
SERIES WW20 WINDOW WALL SYSTEM - SMI

GLOBAL PERFORMANCE WINDOW INC.
DBA: EPSYLON USA
1881 SW 3ST POMPAÑO BEACH, FL 33069
TEL. (954)-942-3322

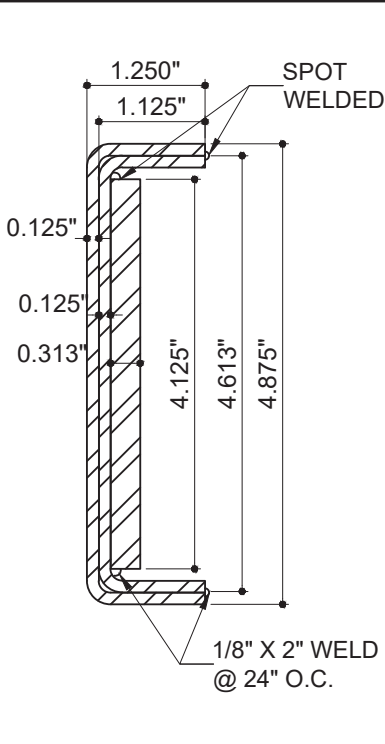
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					Date	Drawn By				Description
Drawn Date 08/13/2024						Scale <i>AS SHOWN</i>				
DRAWING NO. AD15-06										
P1										
Sheet No. 18 OF 22										



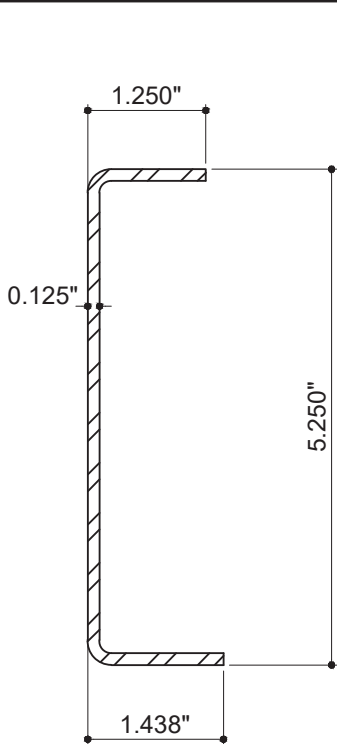
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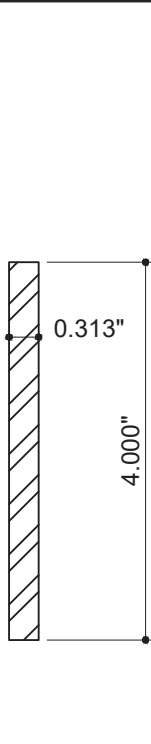
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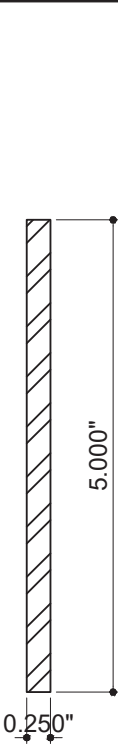
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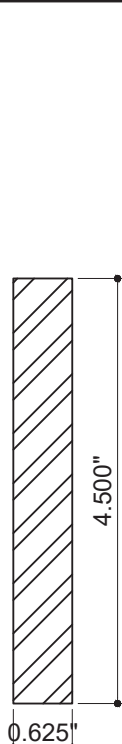
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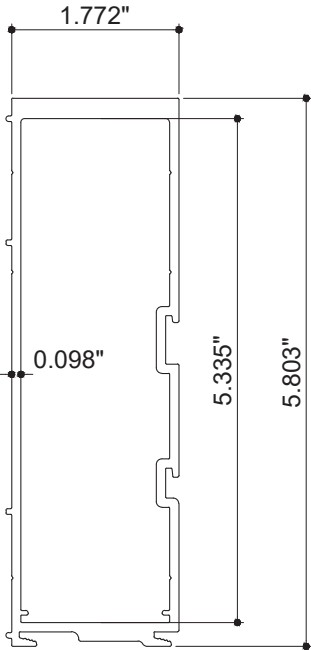
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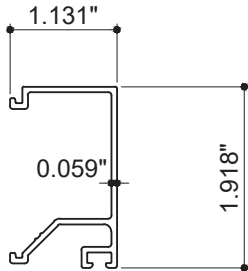
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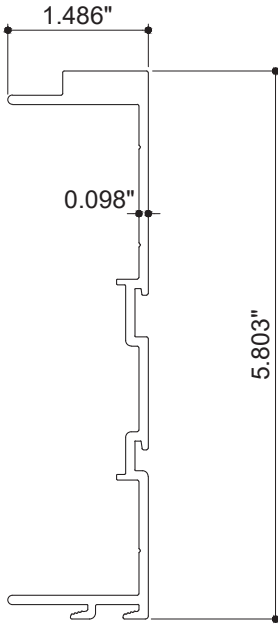
50 STEEL REINF.
A36 MIN.



40 JAMB
20012 6063-T6



41 SPANDREL CAP
20030 6063-T6



42 SPLIT MULLION (MALE)
20014 6063-T6

FLORIDA APPROVAL:
FL#19019.1

YOUNG WANG
FLORIDA REGISTRATION
FL #55983
C.A. No. 528677
September 4th, 2024

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

SERIES WW20 WINDOW WALL SYSTEM - SMI
GLOBAL PERFORMANCE WINDOW INC.
DBA. EPSYLON USA
1881 SW 3ST POMPANO BEACH, FL 33069
TEL. (954)-942-3322

Rev. No.	Date	Drawn By	REVISION	Description
R3	08/13/2024	JAMES		

Drawn Date: 08/13/2024 Scale: AS SHOWN

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BILL OF MATERIALS

ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
40	20012	JAMB	ALUM. 6063-T6	METRA ALUMINUM INC
41	20030	SPANDREL CAP	ALUM. 6063-T6	METRA ALUMINUM INC
42	20014	SPLIT MULLION(MALE)	ALUM. 6063-T6	METRA ALUMINUM INC
43	91502	EPDM TREMCO GASKET	EPDM	EPDM-DURO 70
44	-	SPACER	SILICONE	QUANEX BUILDING PRODUCTS
45	VK1826	STRUCTURAL GLAZING SPACER,1/2"X1/8" THK, WITH DOUBLE SIDE ADHESIVE, SHORE A DURO 65.	PVC FOAM	CAPITAL TAPE CO, INC
46	VK1826	STRUCTURAL GLAZING SPACER,1/2"X1/4" THK , WITH DOUBLE SIDE ADHESIVE, SHORE A DURO 65.	PVC FOAM	CAPITAL TAPE CO, INC
47	V2108	HIGH-STRENGTH POLYURETHANE FOAM SUBSTRATE,1/2"X1/8" THK. WITH DOUBLE SIDE ADHESIVE, SHORE A DURO 35.	FOAM	SAINT-GOBAIN PERFORMANCE PLASTICS
48	V2104	HIGH-STRENGTH POLYURETHANE FOAM SUBSTRATE,1/2"X1/4"THK. WITH DOUBLE SIDE ADHESIVE, SHORE A DURO 35.	FOAM	SAINT-GOBAIN PERFORMANCE PLASTICS
49	-	1/4" X 5" FULL LENGTH STEEL BAR REINFORCEMENT	STEEL	A36 MIN. (Fy=36 Ksi min.)
50	-	5/8" X 4 1/2" FULL LENGTH STEEL BAR REINFORCEMENT	STEEL	A36 MIN. (Fy=36 Ksi min.)

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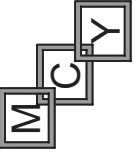
12781 MIRAMAR PKWY.STE.301

MIRAMAR, FL 33027

mcy@mcyengineering.com

www.MCYEngineering.com

mcy@mcyengineering.com



SERIES WW20 WINDOWALL SYSTEM - SMI

GLOBAL PERFORMANCE WINDOW INC.

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TEL. (954)-942-3322

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Drawn Date 08132024	Scale AS SHOWN
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DRAWING NO.
AD15-06

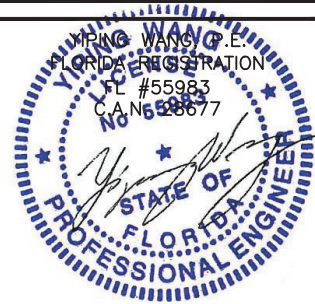
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Sheet No.

21 OF 22

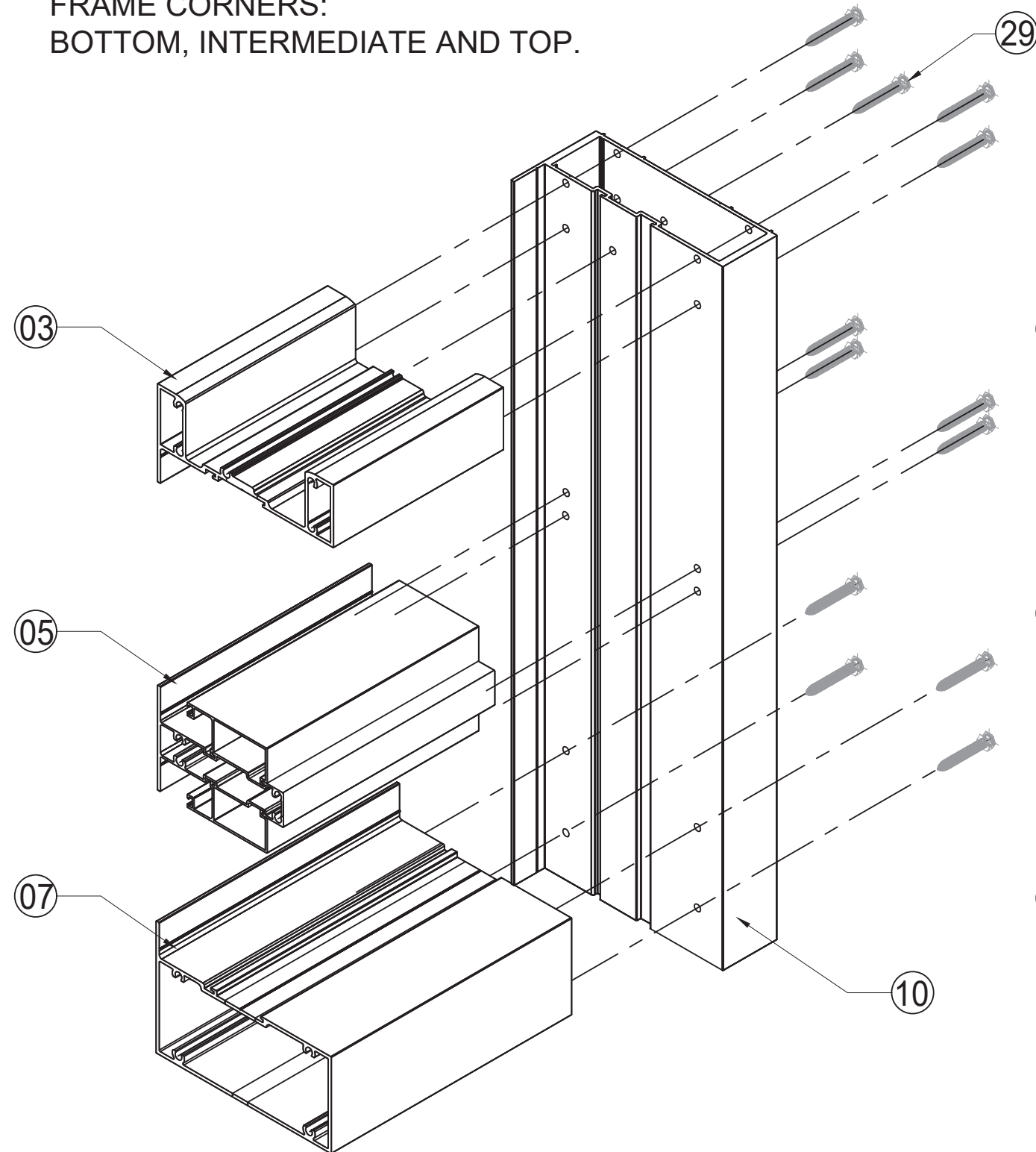
FLORIDA APPROVAL:

FL#19019.1

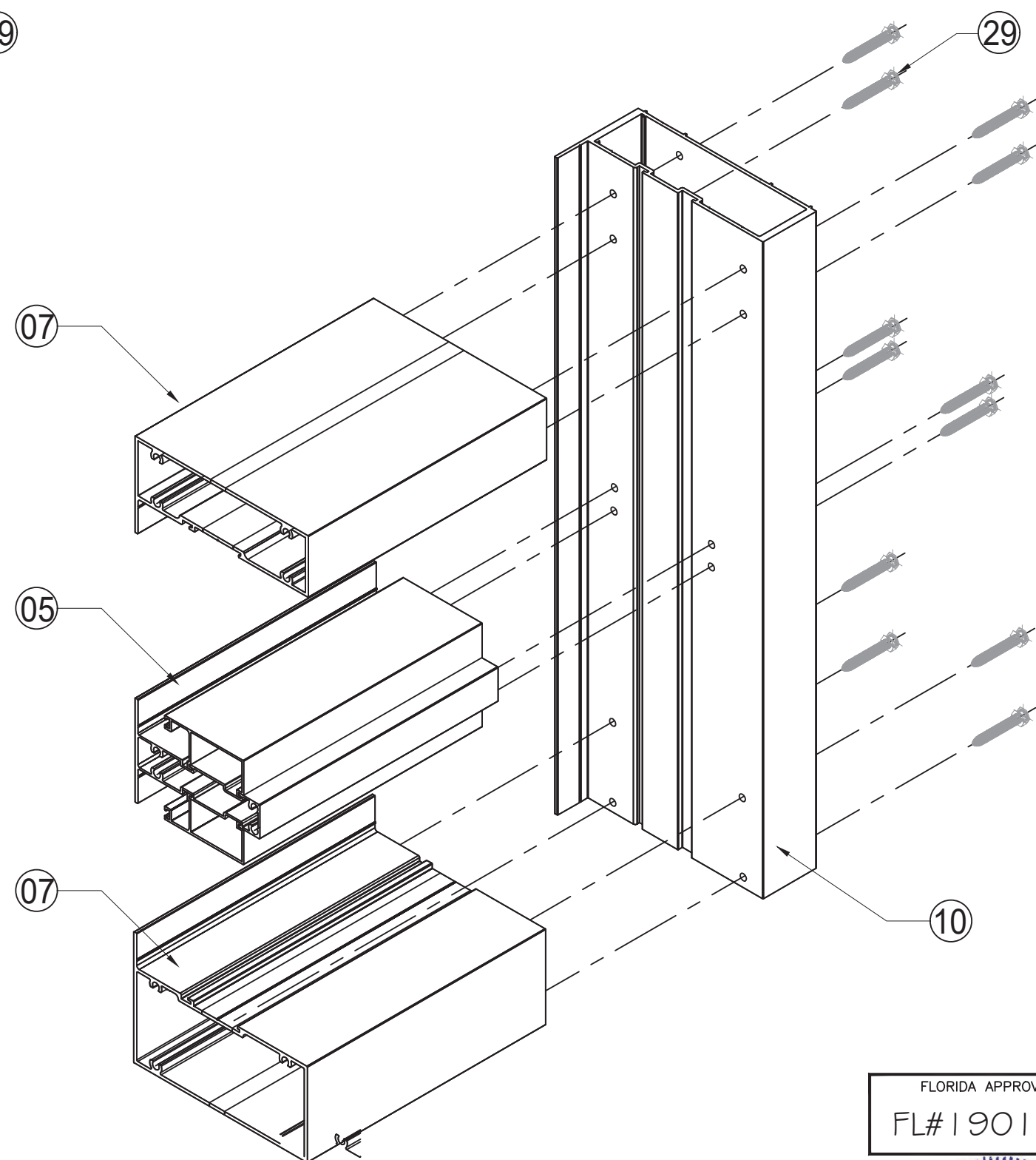


September 4th, 2024

FRAME CORNERS:
BOTTOM, INTERMEDIATE AND TOP.

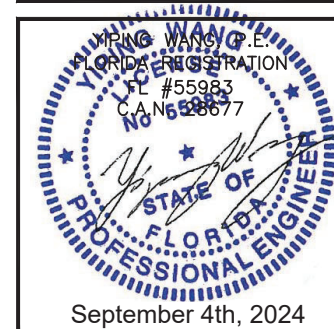


FRAME CORNER ASSEMBLY



FRAME CORNER ASSEMBLY (OPTION)

FLORIDA APPROVAL:
FL# 19019.1

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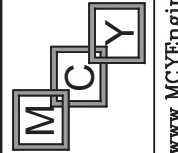
SERIES WW20 WINDOW WALL SYSTEM - SMI

GLOBAL PERFORMANCE WINDOW INC.

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1881 SW 3ST POMPANO BEACH, FL 33069
TEL (954) 042 2322

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MIRAMAR, FL 33027

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