

FACIEM VITRIUM
HS2550 STOREFRONT SYSTEM
LARGE MISSILE IMPACT LEVEL D

GENERAL NOTES:

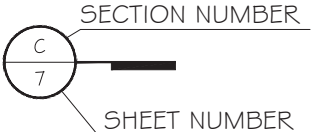
- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION FBC (2023) /9TH EDITION FBC (2026) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- STOREFRONTS ARE RATED FOR LARGE MISSILE IMPACT. LARGE MISSILE IMPACT USED FOR INSTALLATIONS UP TO 30 FT OF GRADE. IMPACT SHUTTERS ARE NOT REQUIRED.
- THESE STOREFRONTS ARE APPROVED FOR AIR AND 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 8TH EDITION FBC (2023) /9TH EDITION FBC (2026) SECTION AS APPLICABLE.
- 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.
- ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION SEALED WITH SILICONE SEALANT.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.
- FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 35, OR EQUIVALENT CORROSION RESISTANCE).
- CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).

USE CHARTS AS FOLLOWS.

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|----------------|--|
| <u>STEP 1:</u> | DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD. |
| <u>STEP 2:</u> | SEE SHEET 02 FOR TYPICAL EXTERIOR ELEVATION, SEE SHEET 03 FOR GLASS TYPES AND GLASS CAPACITIES. |
| <u>STEP 3:</u> | SEE SHEET 04 TO 07 FOR APPROVED JAMB/MULLION DESIGN LOADS. |
| <u>STEP 4:</u> | ANCHOR OPTIONS AND ITS CAPACITIES SEE SHEET 08 & 09. |
| <u>STEP 5:</u> | THE LOWEST VALUE RESULTING FROM STEPS 2, 3, AND 4 SHALL APPLY TO ENTIRE SYSTEM. |

ABBREVIATIONS AND SYMBOL

G.B. - GLASS BITE
D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER
OPP.- OPPOSITE

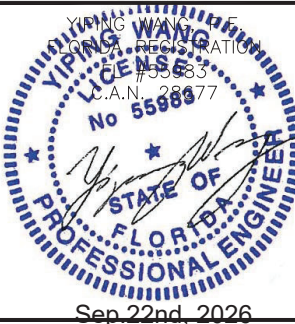


LIMITATIONS OF US

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

FLORIDA APPROVAL:

FL47885.1



HS2550 STOREFRONT SYSTEM - LARGE MISSILE IMPACT

FACIEM VITRIUM

14260 SW STREET #101

MIAMI FL, 33186

PHONE: (305)256-9390 FAX: (305)256-9970

Drawing Date		09.22.2026		Scale		AS SHOWN			
				2.		09.22.2026 JAMES		REVISION	
				1.		09.25.2025 JAMES		NEW APPLICATION	
Rev. No.		Date		Drawn By		Description			

DRAWING NO.

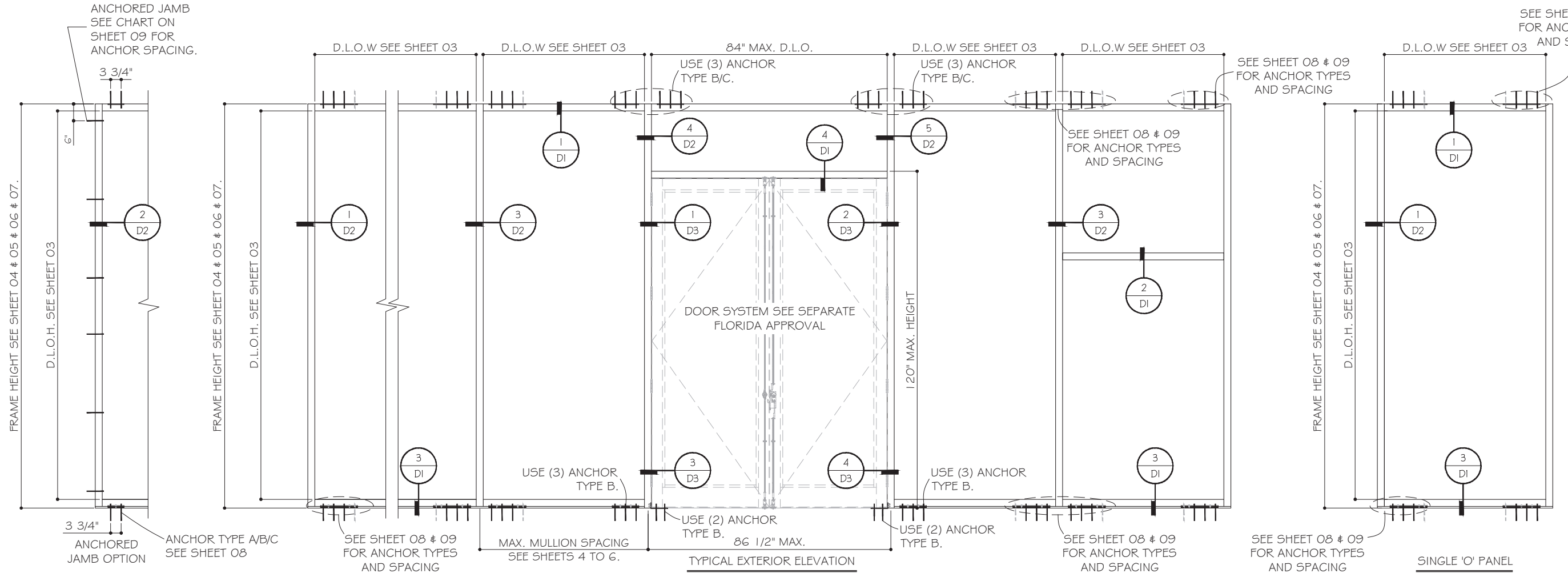
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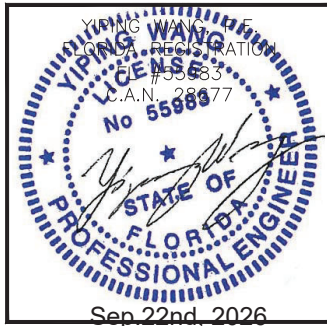
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MCY ENGINEERING, INC.
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STOREFRONT SYSTEM WITH OUTSWING DOORS LIMITED TO:
MAX. DP = +/-65 PSF.
MAX. DOOR HEIGHT = 120"
MAX. DOOR WIDTH = 86 1/2"

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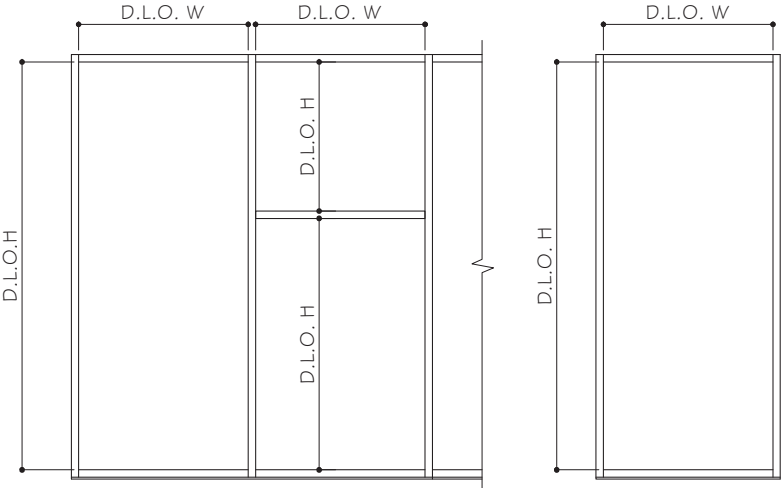
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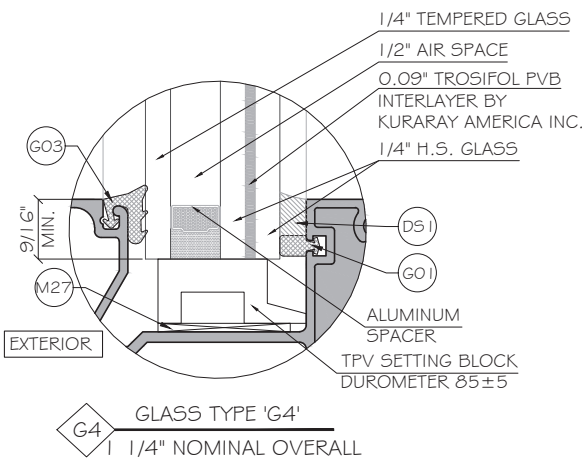
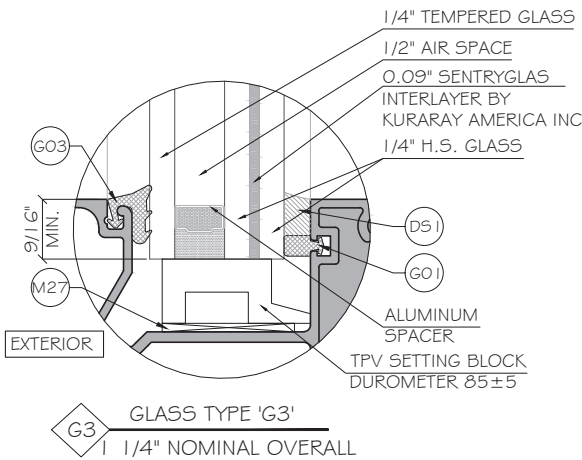
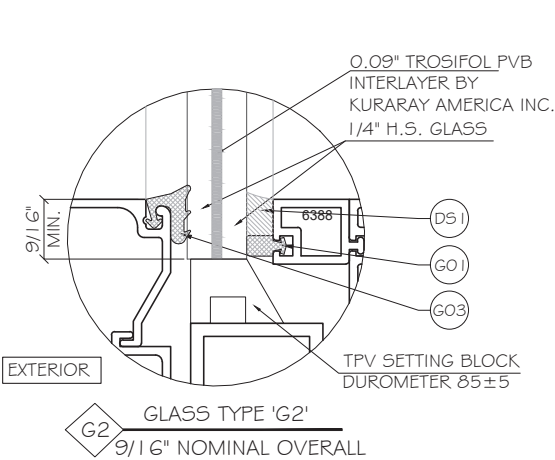
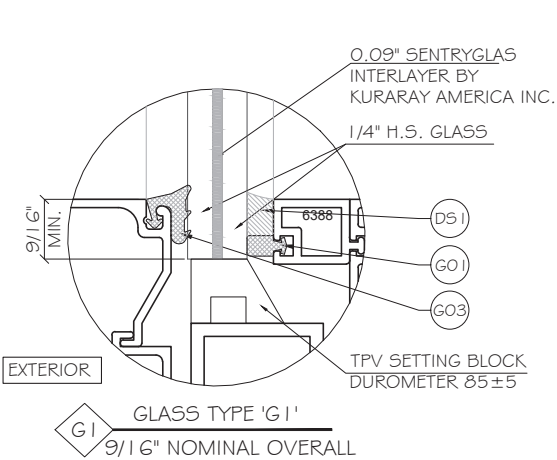
GLASS LOAD CAPACITY - PSF					
NOMINAL DIMS.		GLASS TYPE			
DLO-W	DLO-H	'GL1'	'GL3'	'GL2'	'GL4'
INCH	INCH	(+)/(-)	(+)/(-)	(+)/(-)	(+)/(-)
33 1/2	90 3/8	110	110	80	80
39 1/2		110	110	80	80
45 1/2		110	110	80	80
51 1/2		110	110	80	80
57 1/2		110	110	80	80
63 1/2		110	110	-	-
69 1/2		110	110	-	-
72 1/2		110	110	-	-
75 1/2		65	65	-	-
33 1/2	96 3/8	110	110	80	80
39 1/2		110	110	80	80
45 1/2		110	110	80	80
51 1/2		110	110	80	80
54		110	110	80	80
57 1/2		110	110	-	-
63 1/2		110	110	-	-
68		110	110	-	-
69 1/2		65	65	-	-
73 1/2		65	65	-	-
27 1/2		110	110		
33 1/2		110	110	80	80
39 1/2		110	110	80	80
45 1/2		110	110	80	80
50 1/2		110	110	80	80
57 1/2		110	110	-	-
63 1/2		110	110	-	-
69 1/2		65	65	-	-
27 1/2	102 3/8	110	110	80	80
33 1/2		110	110	80	80
39 1/2		110	110	80	80
45 1/2		110	110	80	80
50 1/2		110	110	80	80
57 1/2		110	110	-	-
63 1/2		110	110	-	-
69 1/2		65	65	-	-
73 1/2		65	65	-	-
27 1/2	108 3/8	110	110	80	80
33 1/2		110	110	80	80
39 1/2		110	110	80	80
45 1/2		110	110	80	80
48		110	110	80	80
57 1/2		110	110	-	-
60 1/2		110	110	-	-

GLASS LOAD CAPACITY - PSF					
NOMINAL DIMS.		GLASS TYPE			
DLO-W	DLO-H	'GL1'	'GL3'	'GL2'	'GL4'
INCH	INCH	(+)/(-)	(+)/(-)	(+)/(-)	(+)/(-)
21 1/2	114 3/8	110	110	80	80
27 1/2		110	110	80	80
33 1/2		110	110	80	80
39 1/2		110	110	80	80
45 1/2		110	110	80	80
51 1/2		110	110	-	-
57 1/2		110	110	-	-
63 1/2		65	65	-	-
69 1/2		65	65	-	-
39 1/2	120 3/8	65	65	-	-
45 1/2		65	65	-	-
51 1/2		65	65	-	-
57 1/2		65	65	-	-
63 1/2		65	65	-	-
66		65	65	-	-
69 1/2		65	65	-	-
39 1/2	126 3/8	65	65	-	-
45 1/2		65	65	-	-
51 1/2		65	65	-	-
57 1/2		65	65	-	-
63		65	65	-	-
33 1/2		65	65	-	-
39 1/2		65	65	-	-
45 1/2	132 3/8	65	65	-	-
51 1/2		65	65	-	-
57 1/2		65	65	-	-
60		65	65	-	-
27 1/2		65	65	-	-
33 1/2		65	65	-	-
39 1/2		65	65	-	-
45 1/2	138 3/8	65	65	-	-
51 1/2		65	65	-	-
57 1/2		65	65	-	-
57 1/2		65	65	-	-



GLASS LIMIT AS PER SIZES SHOWN ON THIS SHEET FOR MULTIPLE AND SINGLE LITES.

NOTE:
GLASS COMPLIES WITH ASTM E1300-16
OR 24 (3 SEC. GUSTS) AND ANSI Z97.1.



FLORIDA APPROVAL:
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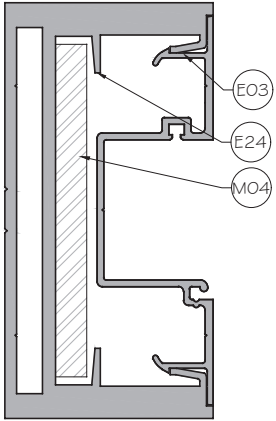
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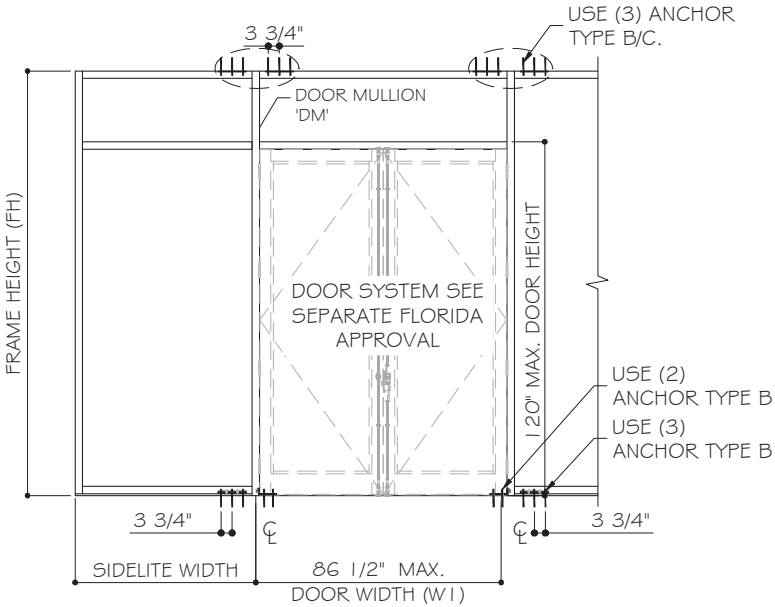
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DRAWING NO. AD25-50			
G1			
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DOOR MULLION DESIGN LOAD CAPACITY-PSF				
SIDELITE WIDTH	FRAME HEIGHT	DOOR WIDTH	DOOR HEIGHT	MULLION 'DM'
INCH	INCH	INCH	INCH	(+/-) PSF
48	108	86 1/2	96	65
54		86 1/2	96	65
60		86 1/2	96	65
66		86 1/2	96	65
72		86 1/2	96	65
48	114	86 1/2	96	65
54		86 1/2	96	65
60		86 1/2	96	65
66		86 1/2	96	65
72		86 1/2	96	65
48	120	86 1/2	108	65
54		86 1/2	108	65
60		86 1/2	108	65
66		86 1/2	108	65
72		86 1/2	108	65
48	126	86 1/2	108	65
54		86 1/2	108	65
60		86 1/2	108	65
66		86 1/2	108	65
72		86 1/2	108	65
48	132	86 1/2	120	65
54		86 1/2	120	65
60		86 1/2	120	65
66		86 1/2	120	65
72		86 1/2	120	63
48	138	86 1/2	120	65
54		86 1/2	120	65
60		86 1/2	120	65
66		86 1/2	120	64
72		86 1/2	120	61
48	144	86 1/2	120	65
54		86 1/2	120	65
60		86 1/2	120	65



DOOR MULLION DM

DM	Ix(IN ⁴)	Sx(IN ³)
ALUMIUM	13.660	5.464
(1) STEEL	2.000	1.000
TOTAL		
1x ALUM + STL X 2.9	19.460	



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M3			
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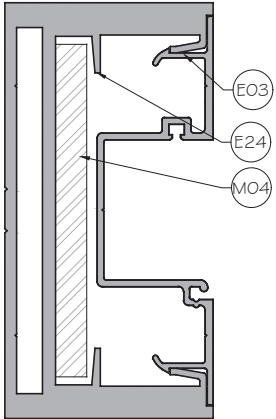
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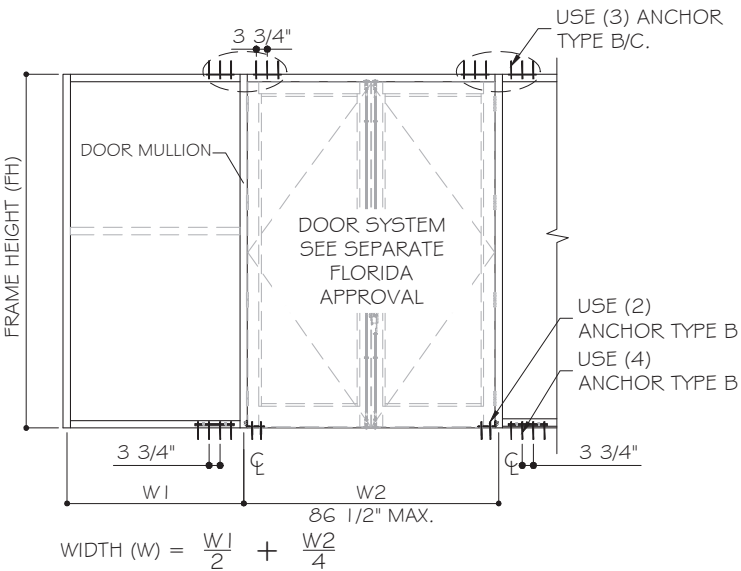
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DOOR MULLION DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS.		MULLION
W	FH	'DM'
INCH	INCH	(+)/(-)
48	96	110
54		110
60		110
64 1/2		110
42	102	110
48		110
54		110
60		110
42	108	110
48		110
54		110
57		110
42	114	110
48		110
54		110
42	120	110
48		110
52		110

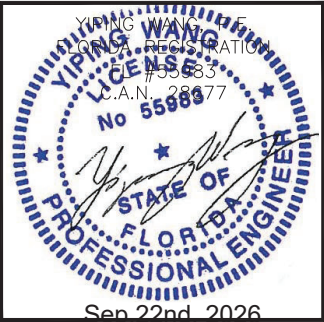


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DM	Ix(IN ⁴)	Sx(IN ³)
ALUMIUM	13.660	5.464
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www.MCYEngineering.com mcy@mcycengineering.com

TYPICAL ANCHOR TYPES: (SEE ELEVATIONS FOR SPACING)

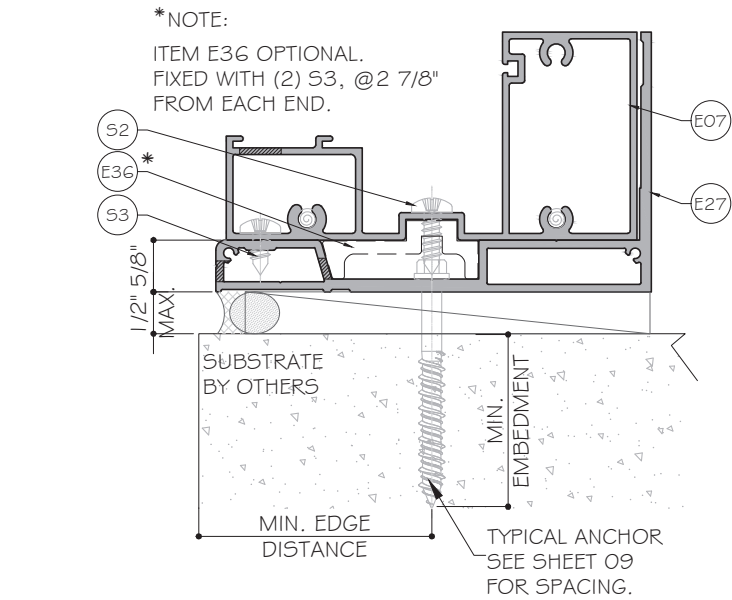
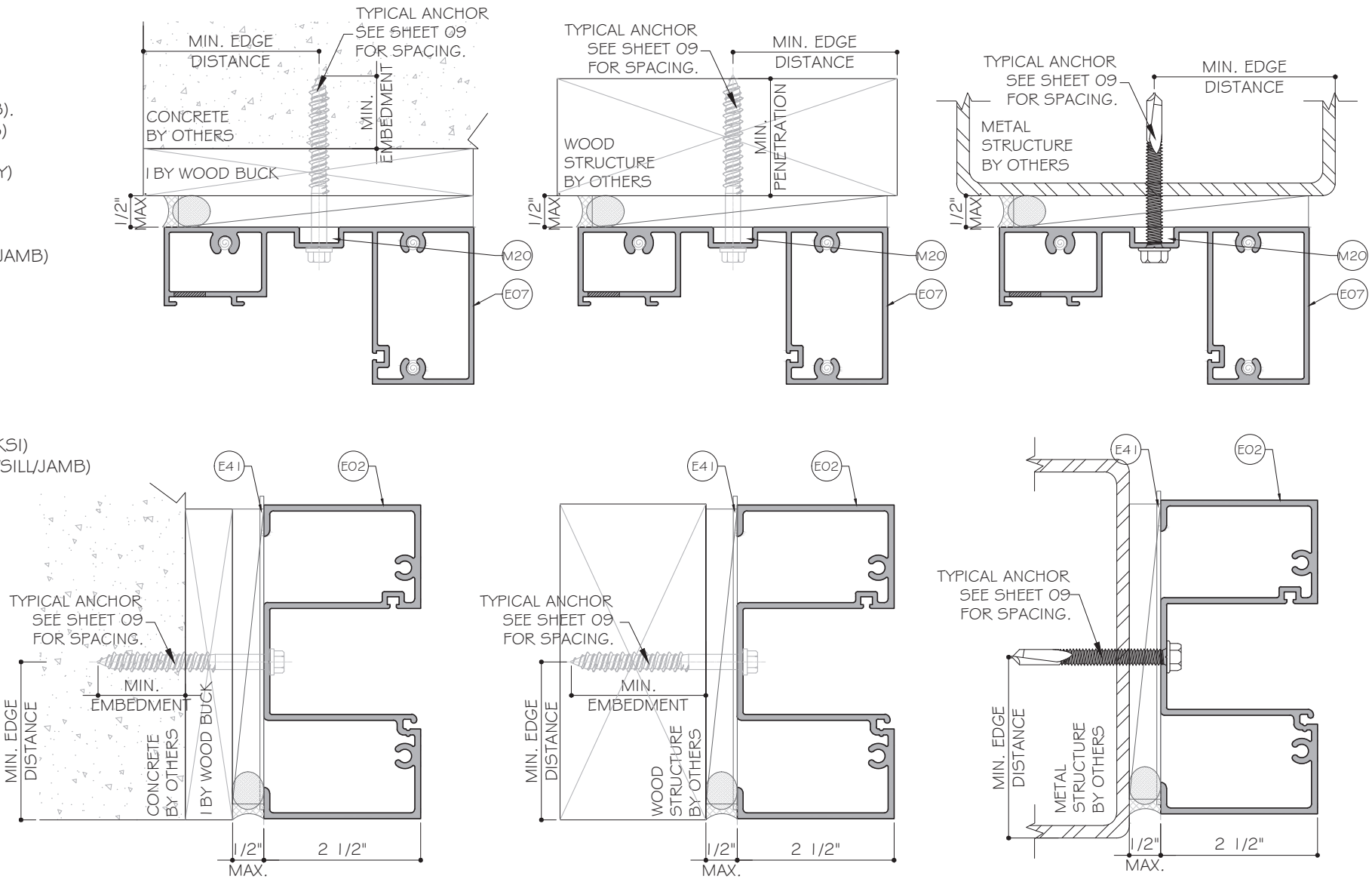
- TYPE 'A' -- 5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
INTO 2 BY WOOD BUCKS OR WOOD STRUCTURES.
W/ 2" MIN. PENETRATION INTO WOOD (HEAD/JAMB).
OR THRU 1 BY WOOD BUCK INTO CONCRETE (HEAD/JAMB)
W/ 1 3/4" MIN. EMBED.
OR THRU 1 BY WOOD BUCK INTO GROUT-FILLED BLOCK (JAMB ONLY)
W/ 1 3/4" MIN. EMBED
- TYPE 'B' -- 5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
DIRECTLY INTO CONCRETE (HEAD/SILL/JAMB)
W/ 1 3/4" MIN. EMBED.
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
- TYPE 'BB' -- 5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
DIRECTLY INTO GROUT-FILLED BLOCK(JAMB ONLY)
W/ 1 3/4" MIN. EMBED

- TYPE 'C' -- 5/16" DIA. SELF DRILLING SCREW (GRADE 5 CRS, $F_u=120$ KSI, $F_y=92$ KSI)
INTO FBC APPROVED MULLIONS OR OTHER METAL STRUCTURES (HEAD/SILL/JAMB)

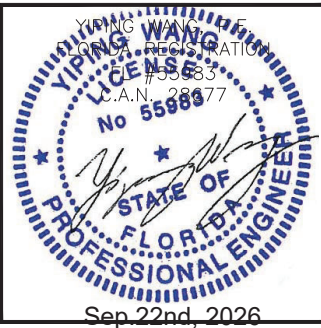
TYPICAL EDGE DISTANCE
INTO CONCRETE OR MASONRY= 2 1/2" MIN.
INTO WOOD = 1 1/4" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

SUBSTRATE
WOOD: SG=0.55MIN.
CONCRETE: $f_c=3000$ PSI MIN.
C-90 GROUT-FILLED BLOCK: $f_m=2$ KSI.
ALUMINUM: 1/8" THK. MIN. (6063-T5, MIN)
STEEL: 1/8" THK. MIN. ($F_y=36$ KSI MIN)

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



FLORIDA APPROVAL:
FL47885.1



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FACIEM VITRIUM
14260 SW STREET #101
MIAMI FL, 33186
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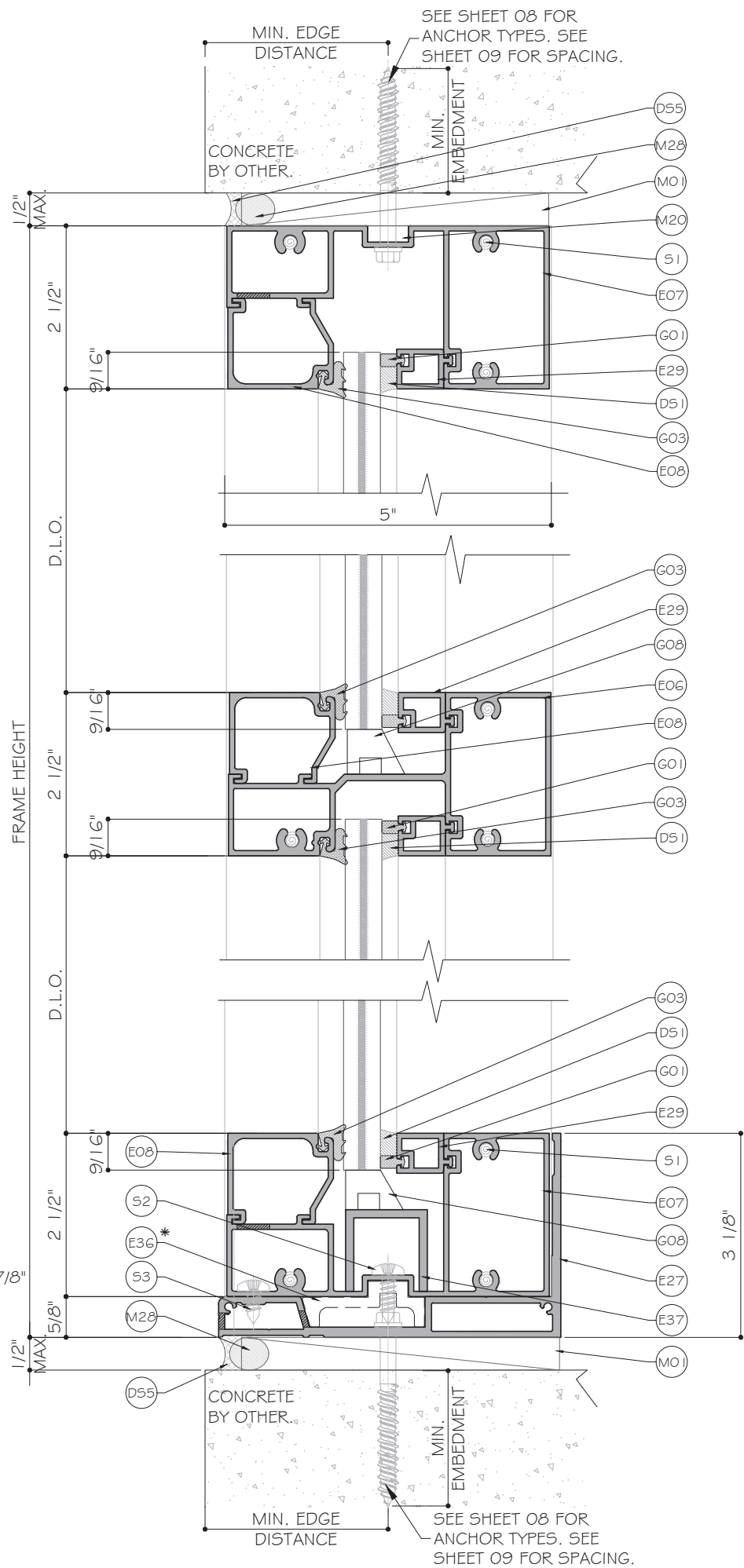
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1.	09.25.2025	JAMES	NEW APPLICATION

Drawn Date	Scale
09.22.2026	AS SHOWN

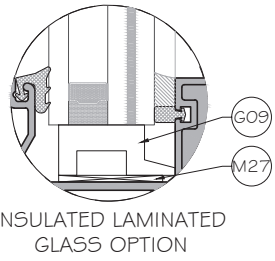
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AD25-50

A1
Sheet No.
08 OF 14

EXTERIOR



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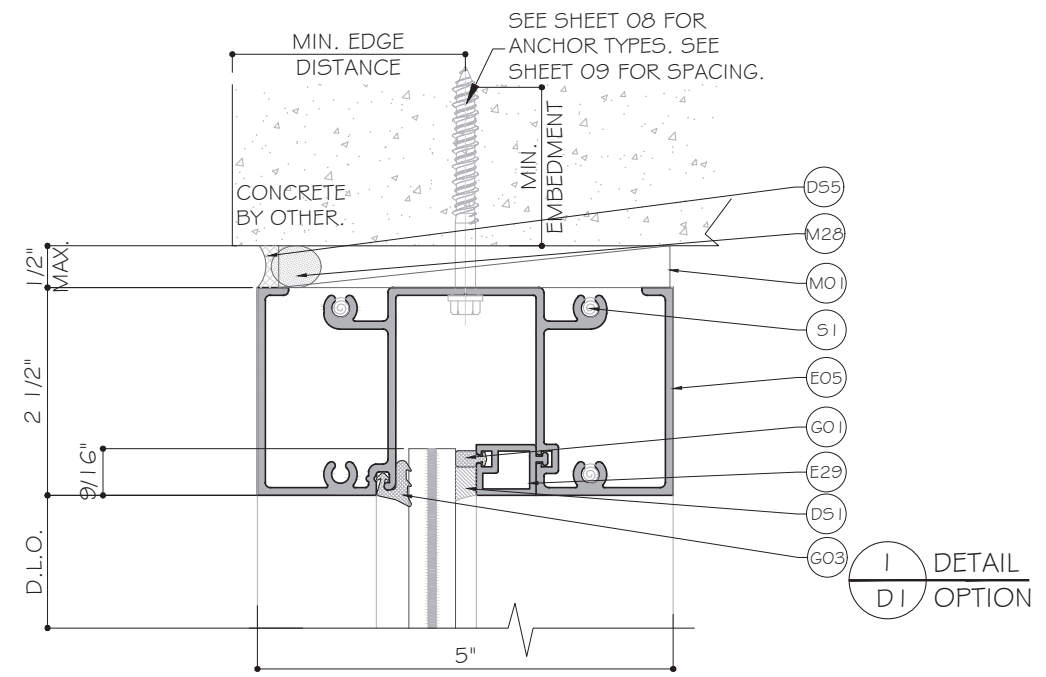


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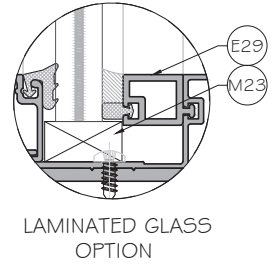
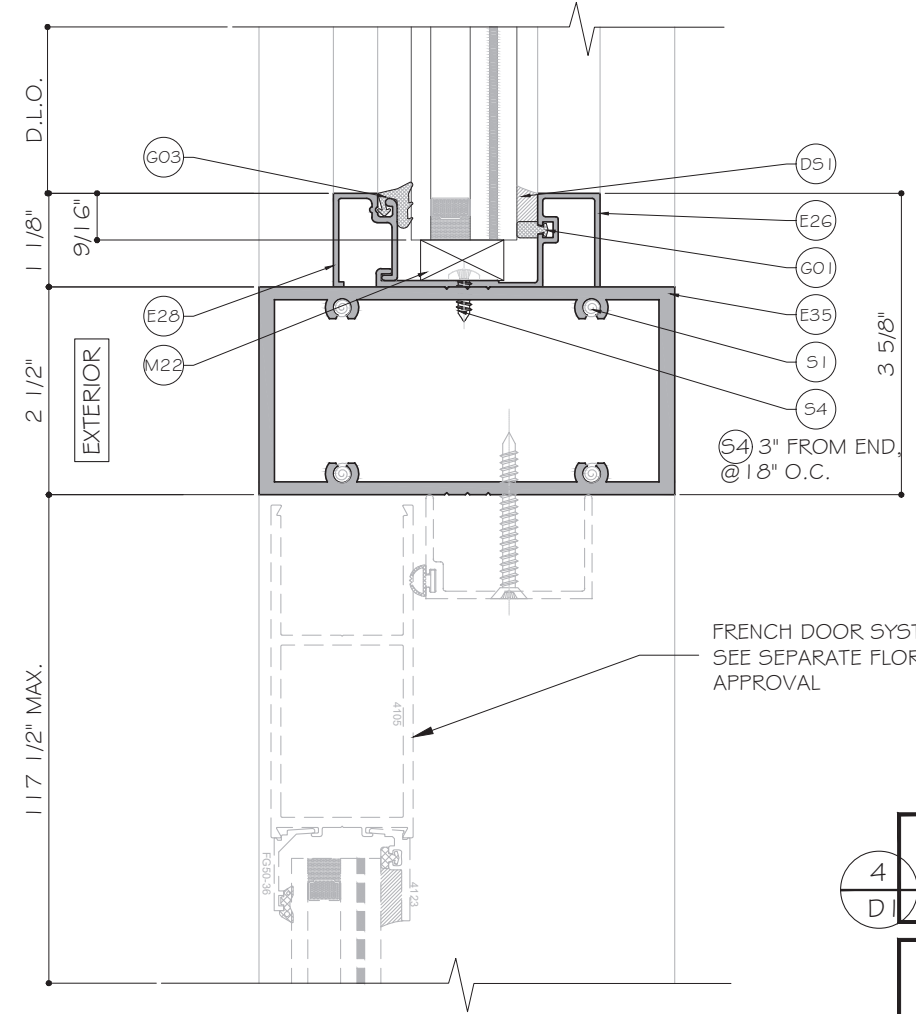
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* NOTE:
ITEM E36 OPTIONAL.
FIXED WITH (2) S2, @2 7/8"
FROM EACH END.



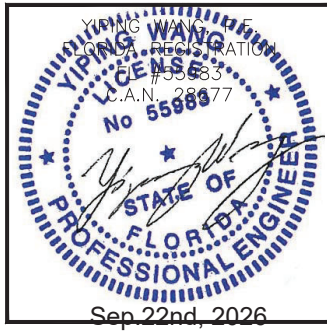
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LAMINATED GLASS
OPTION

FRENCH DOOR SYSTEM
SEE SEPARATE FLORIDA
APPROVAL

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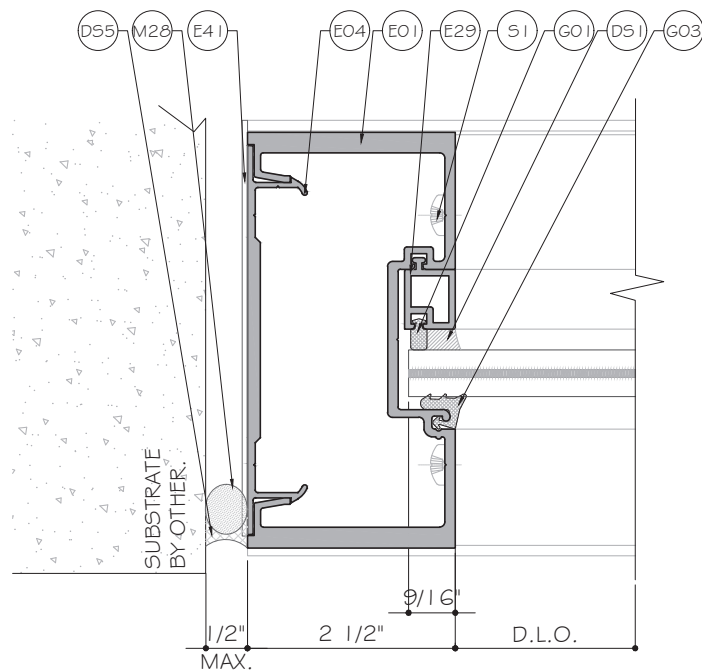
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14260 SW STREET #101
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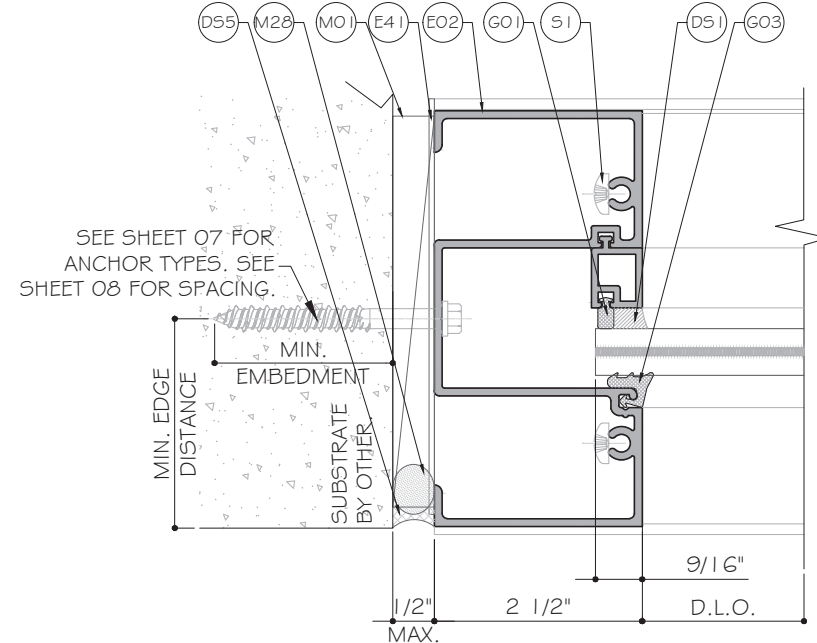
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1.	09.25.2025	JAMES	NEW APPLICATION

Drawn Date	Scale
09.22.2026	AS SHOWN

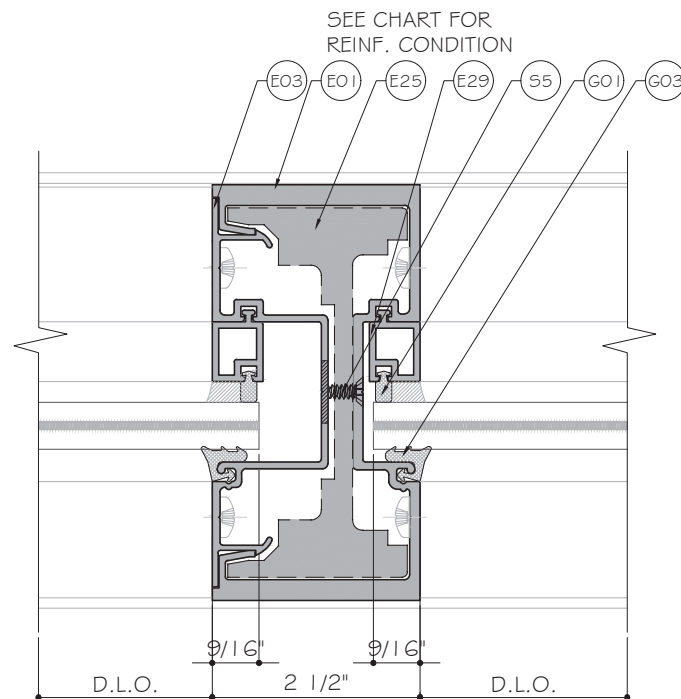
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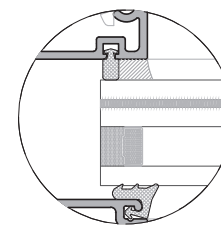
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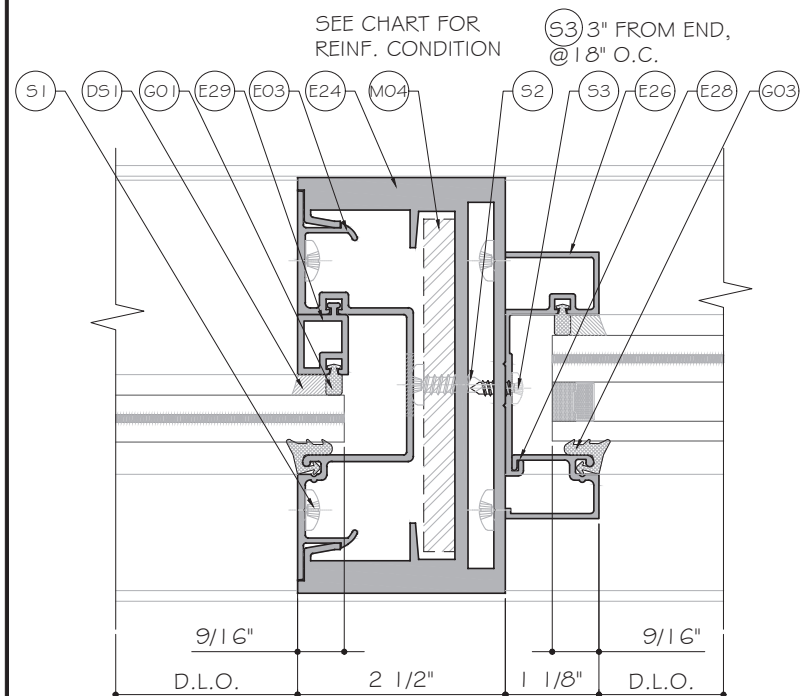
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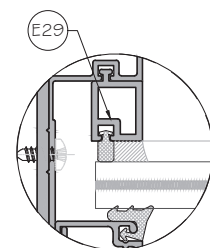
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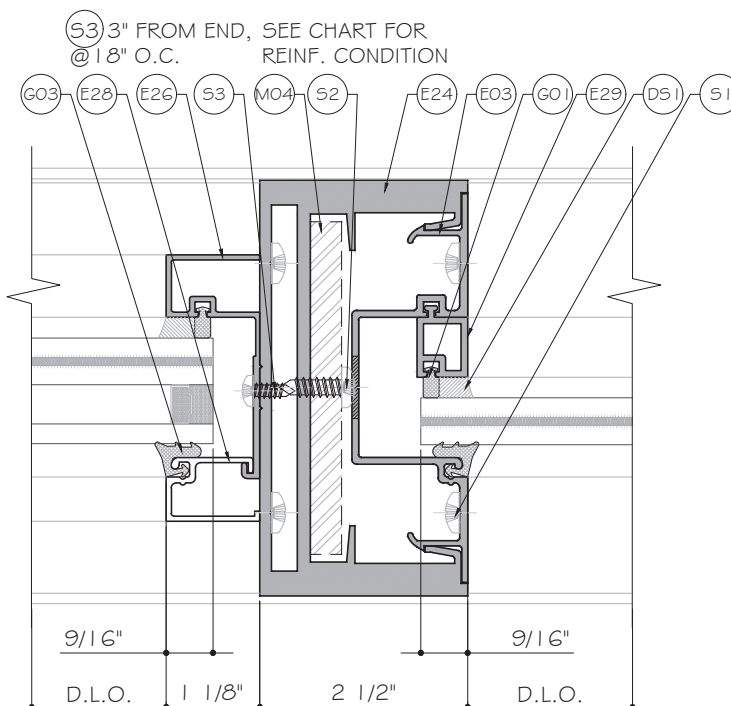
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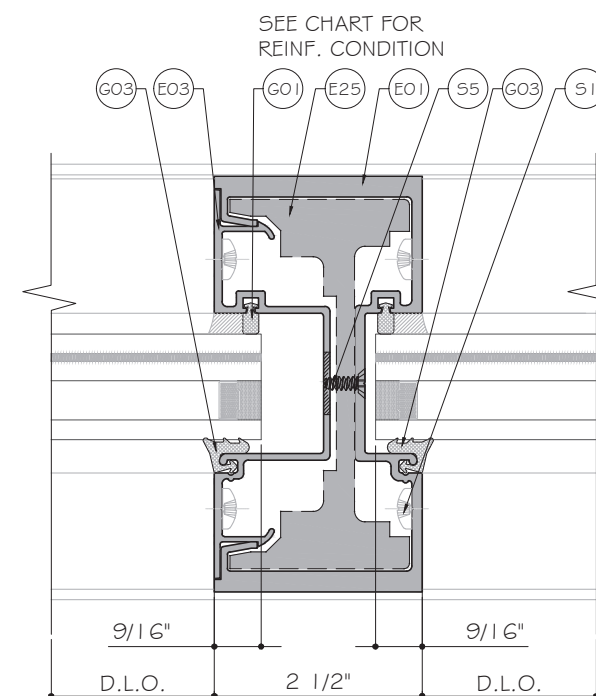
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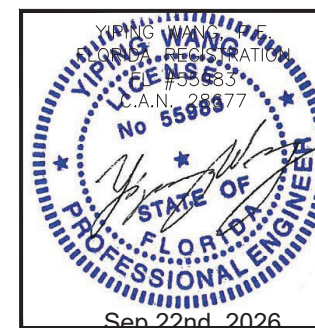


EXTERIOR
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EXTERIOR
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FLORIDA APPROVAL:
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HS2550 STOREFRONT SYSTEM - LARGE MISSILE IMPACT

FACIEM VITRIUM

14260 SW STREET #101

MIAMI FL, 33186

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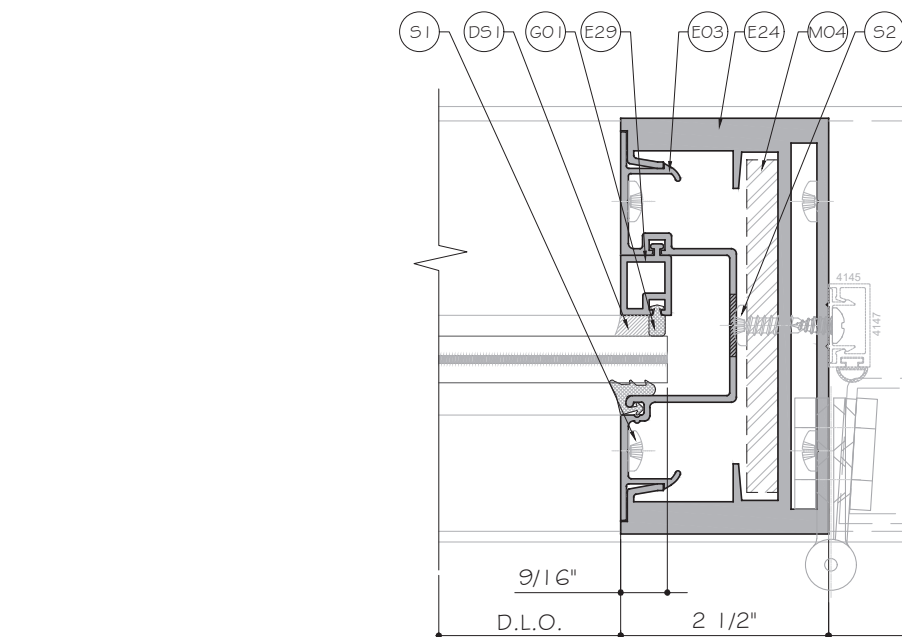
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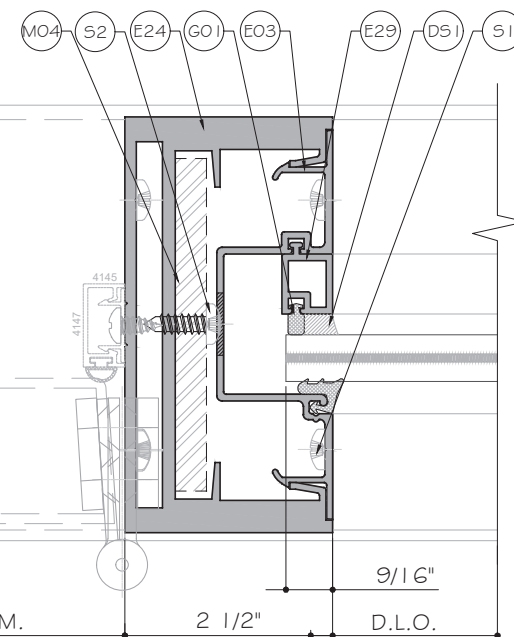
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Rev. No.	Date	Drawn By	Description
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11 OF 14			



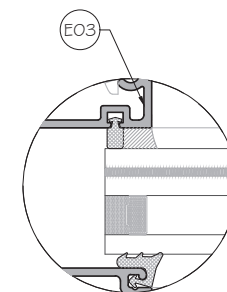
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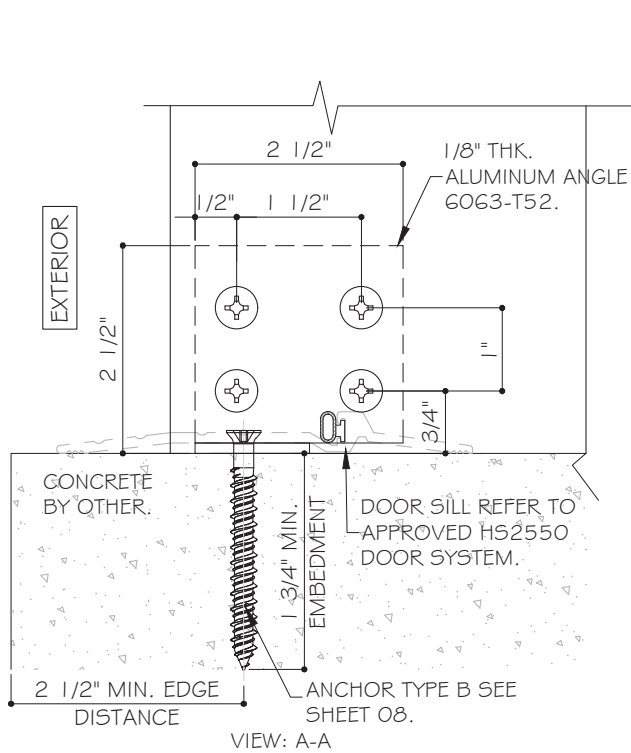


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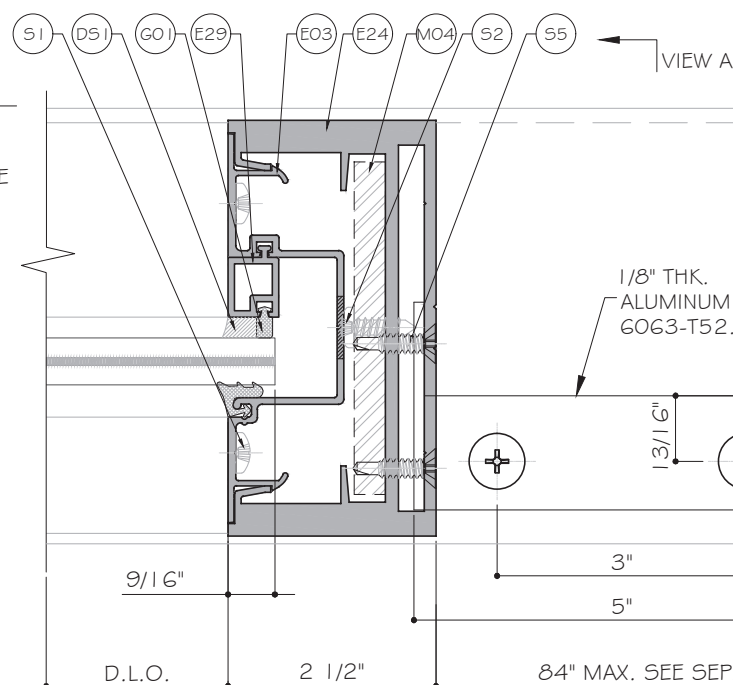


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GLASS OPTION



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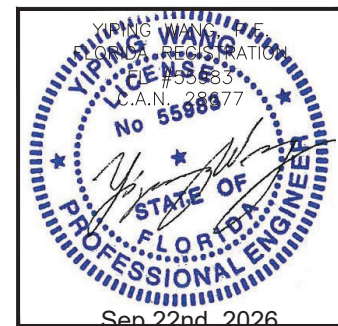
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D3			
Sheet No.			
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