

TECNOGLASS, LLC
SERIES 7000 ALUMINUM CURTAIN WALL
LARGE AND SMALL MISSILE IMPACT

GENERAL NOTES:

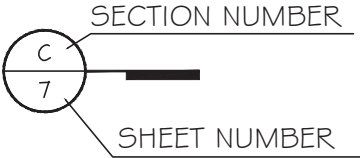
- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION OF FLORIDA BUILDING CODE 2023 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- PRODUCTS ARE RATED FOR LARGE AND SMALL MISSILE IMPACT. USE SMALL MISSILE FOR ELEVATIONS 30'-0" ABOVE GRADE OR HIGHER.USE LARGE MISSILE FOR ELEVATIONS LOWER THAN 30'-0" ABOVE GRADE.
- THESE PRODUCTS 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 OF 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.
- SEALANT:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.
- 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 7-22 STANDARD OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET E1 & E2 & E3 FOR APPROVED TYPICAL ELEVATION & CONFIGURATION.
- STEP 3: SEE SHEET G1 FOR GLASS TYPES. TYPICAL ANCHOR TYPES SEE SHEET A1. ANCHOR LAYOUT SEE SHEET E1 & E2 & E3.
- 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

- 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
O.H. - OPPOSITE HAND
OPP.- OPPOSITE



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.

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#28879.7

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55989
L.A.N. 28677

March 07th, 2024

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

Mr. C. Y.

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MIRAMAR, FL 33027
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F: 305.588.5224
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NO.	DATE	DESCRIPTION
01	03.06.2024	NEW

SERIES 7000 ALUMINUM CURTAIN WALL - LMI & SMI

TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
PH: (305)–342–0890 FAX (786) 513–3965

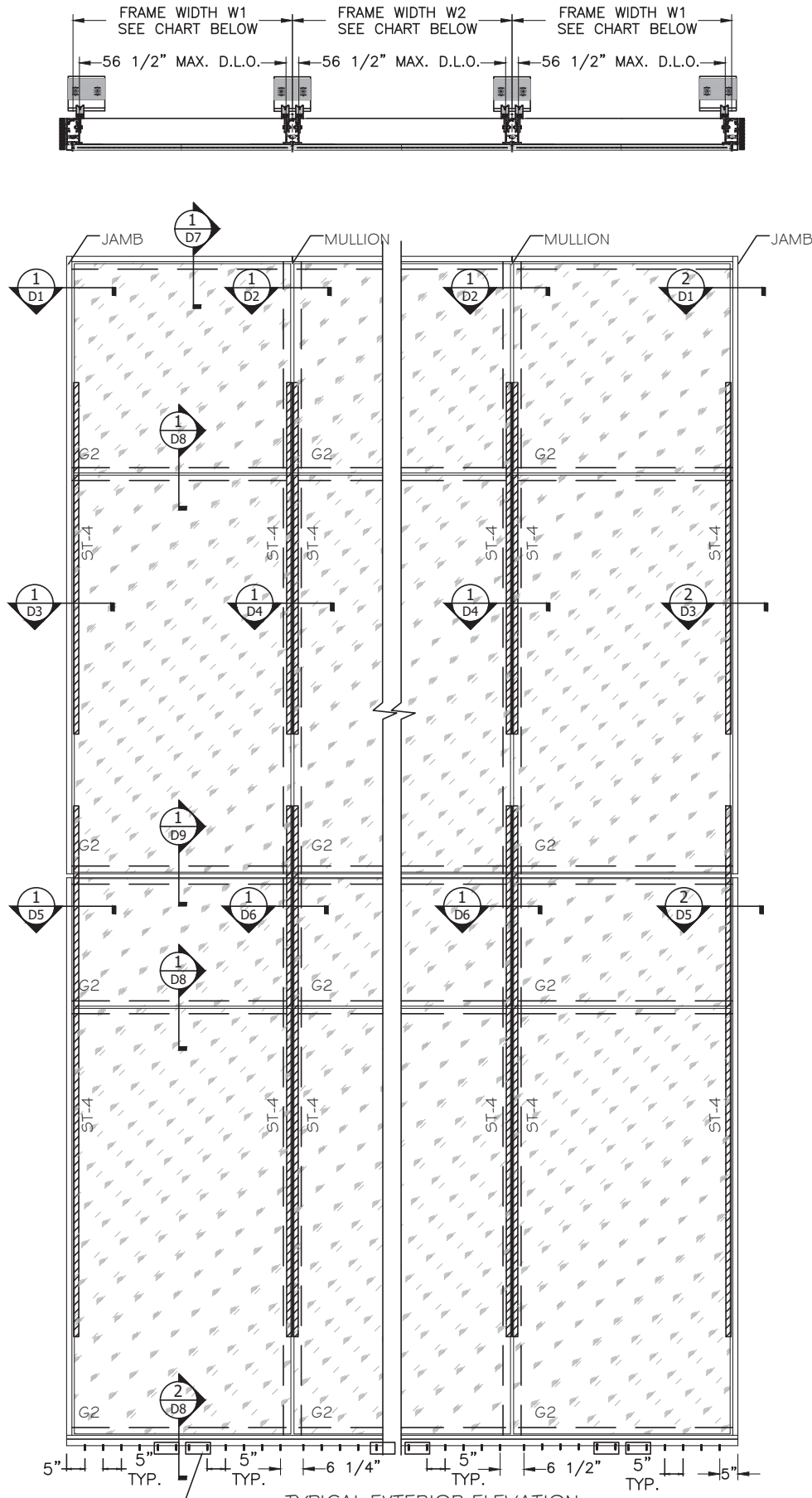
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DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

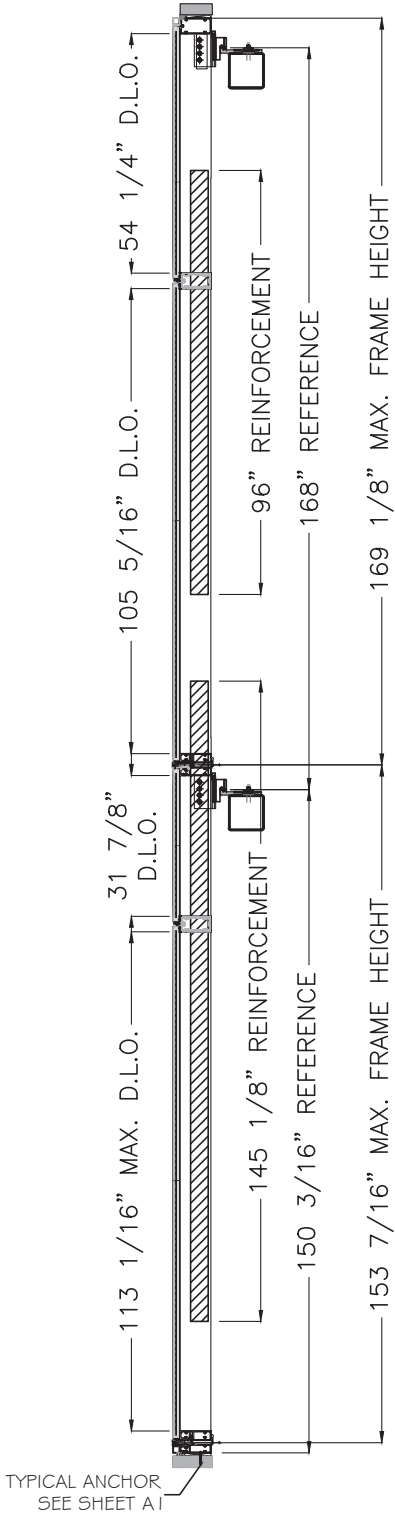
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AD24–06

01 OF 30

MULLION / JAMB ALLOWABLE DESIGN LOADS		
FRAME WIDTH	INCH	Pd (PSF)
MULLION WIDTH $W = \frac{W1 + W2}{2}$	60"	+/- 136.5
JAMB WIDTH W = W1	45.5"	+/- 180.0



GLASS ALLOWABLE DESIGN LOADS-PSF			
GLASS TYPE	MAX. DLO W X DLO H	IMPACT	Pd(PSF)
G2	56 1/2" X 113 1/16"	S.M.I	+/- 180



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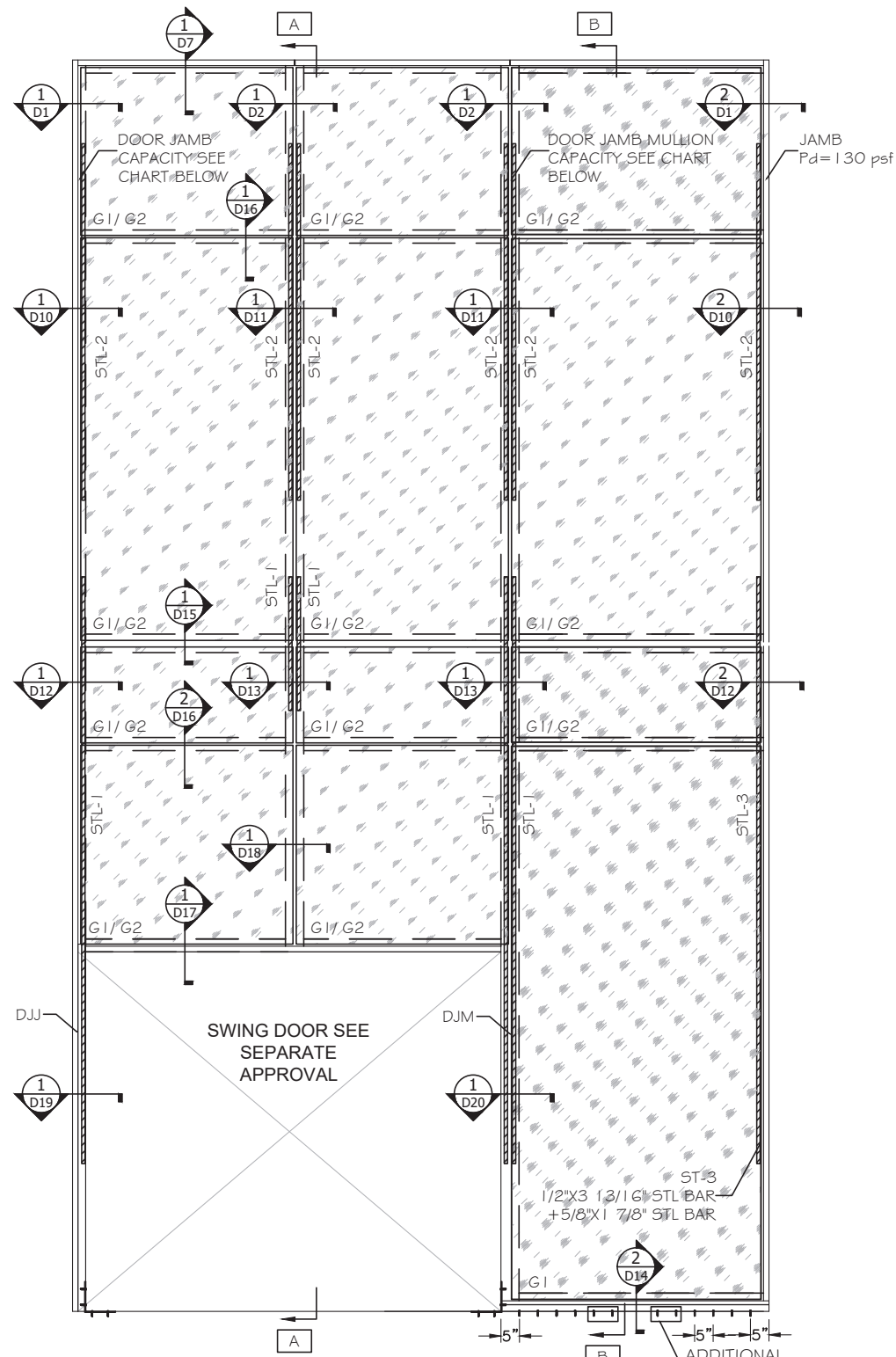
MCY@mcyengineering.com

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ALLOWABLE DESIGN LOADS-PSF			
GLASS TYPE	MAX. DLO W X DLO H	IMPACT	Pd(PSF)
G1	64 1/2" X 146"	LMI	+/- 130
G2	64 1/2" X 105 1/4"	SMI	+/- 130

157 7/8" MAX. FRAME HEIGHT

177 7/16" MAX. FRAME HEIGHT

146" D.L.O.

22" D.L.O.

7/8" D.L.O.

105 1/4" D.L.O.

42 1/4" D.L.O.

3/4"

156"

96" REINFORCEMENT

158 1/8" REINFORCEMENT

174 1/8"

ST-1
3/4"x3 13/16" STL BAR
+5/8"x1 7/8" STL BAR

ST-2
1/4"x3 13/16" STL BAR
+5/8"x1 7/8" STL BAR

DJJ WIDTH (W1)
INCH
58
51.5

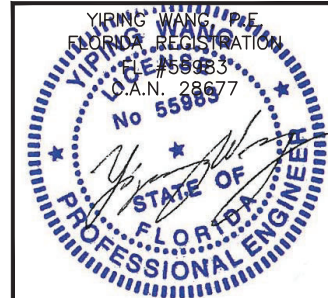
TYPICAL ANCHOR
SEE SHEET A1

B-B

DJM ALLOWABLE DESIGN LOADS		
DOOR WIDTH INCH	SIDELITE WIDTH INCH	Pd (PSF)
116	68"	+/-90
116	28"	+/-115
103	41"	+/-115
103	24"	+/-130
96	48"	+/-115
96	32"	+/-130

DJJ ALLOWABLE DESIGN LOADS	
DOOR WIDTH INCH	Pd (PSF)
116	+/-115
103	+/-130

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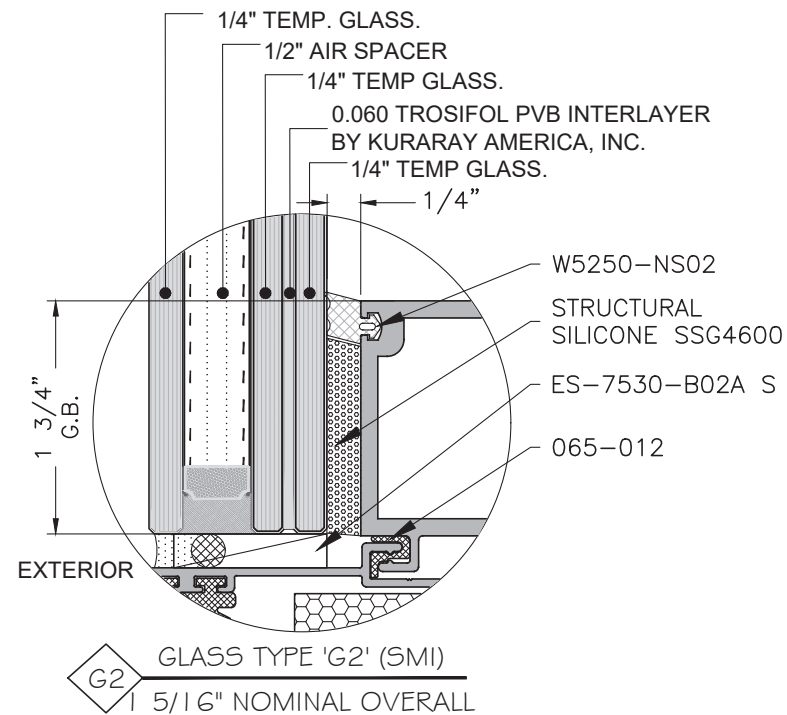
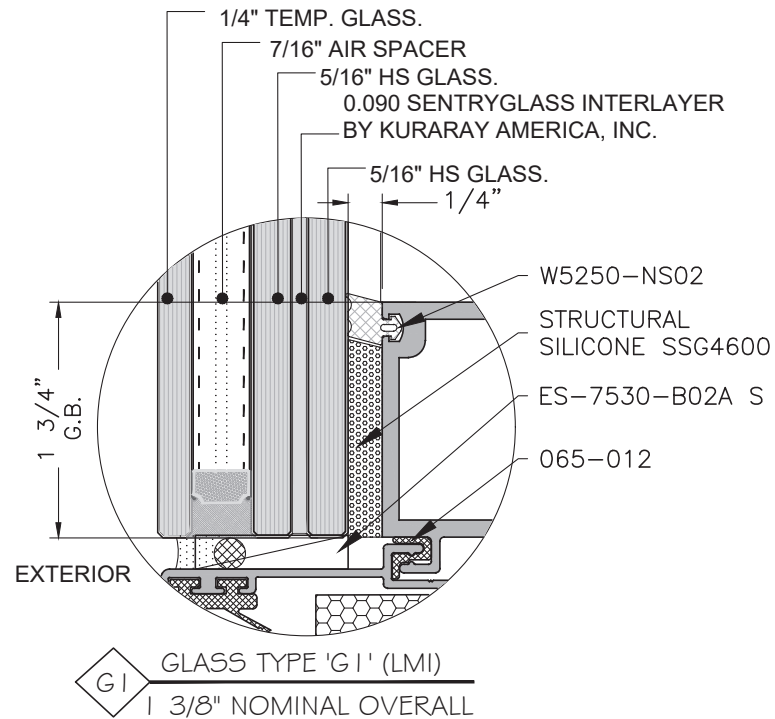
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3 OF 30



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

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G1

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05 OF 30

SILL ANCHOR TYPE

ANCHOR TYPE A
5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177ksi, Fy=155ksi)
DIRECTLY INTO CONCRETE (f'c=4000psi MIN.) WITH 2" MIN. EMBEDMENT.
3 1/2" MIN. EDGE DISTANCE & 5" O.C. MIN.

ANCHOR TYPE B
5/16" DIA. ELCO DRIL FLEX SCREW (Fu=120 ksi, Fy=92ksi)
DIRECTLY INTO METAL (1/4" MIN. THK. STL A36 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE ISOLATED OR PAINTED)

ANCHOR TYPE C
3/8" DIA. 'DEWALT' SCREW BOLT+ (Fu=105 ksi, Fy=84ksi)
DIRECTLY INTO NORMAL-WEIGHT CONCRETE (f'c=4000psi)
WITH 3/4" MIN. EMBEDMENT, 3 1/2" MIN. EDGE DISTANCE & 5" O.C. MIN.

ANCHOR TYPE D
1/2" DIA. 'DEWALT' SCREW BOLT+ (Fu=115 ksi, Fy=92 ksi)
DIRECTLY INTO NORMAL WEIGHT CONCRETE (f'c=4000psi)
w 4 1/4" MIN. EMBEDMENT, 3 1/2" MIN. EDGE DISTANCE & 5" O.C. MIN.

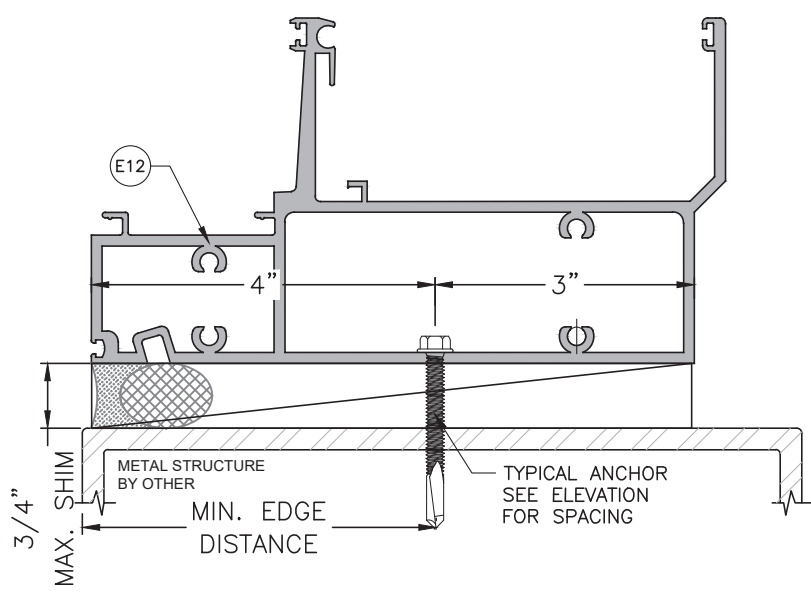
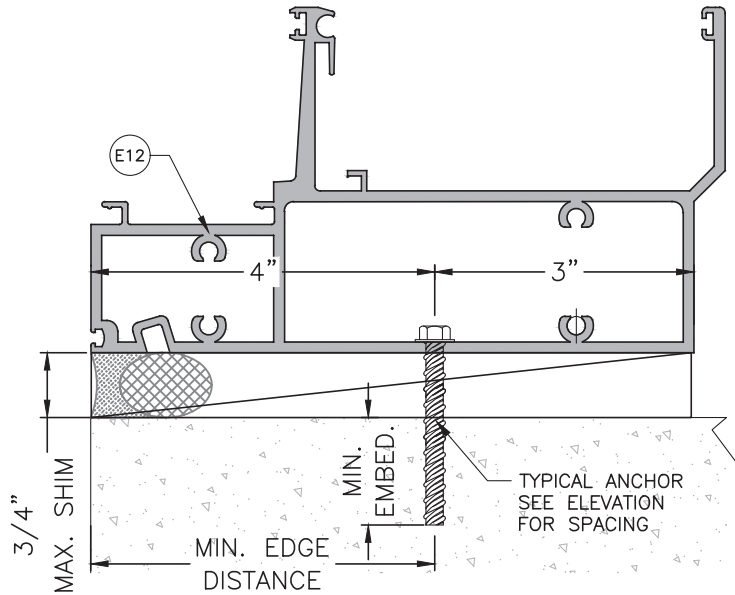


CHART 1: SILL ANCHOR CAPACITY CHART

ANCHOR TYPE	QUANTITY@EACH SIDE OF MULLION/ JAMB	FRAME WIDTH = 60"	FRAME WIDTH = 45.5"
		DESIGN LOAD (PSF)	DESIGN LOAD (PSF)
TYPE A	4	+86.2/-101.2	+113.6/-133.4
	5	+107.7/-126.5	+142.1/-166.8
	6	+129.3/-151.8	+170.5/-180
TYPE B	4	+81.9/-81.9	+108/-108
	5	+102.4/-102.4	+135/-135
	6	+122.9/-122.9	+162/-162
TYPE C	4	+120.2/-120.2	+158.5/-158.5
	5	+150.2/-150.2	+180/-180
	6	+180/-180	+180/-180
TYPE D	4	+180/-180	+180/-180

CHART 2: SILL ANCHOR CAPACITY CHART

ANCHOR TYPE	QUANTITY@EACH SIDE OF MULLION/ JAMB	FRAME WIDTH = 68"	FRAME WIDTH = 60"	FRAME WIDTH = 52"
		DESIGN LOAD (PSF)	DESIGN LOAD (PSF)	DESIGN LOAD (PSF)
TYPE A	4	+65.7/-77.1	+74.5/-87.4	+85.9/-100.8
	5	+82.1/-96.4	+93.0/-109.3	+107.4/-126.1
	6	+98.6/-115.7	+111.7/-130.0	+128.9/-130.0
TYPE B	4	+62.4/-62.4	+70.7/-70.7	+81.6/-81.6
	5	+78.0/-78.0	+88.4/-88.4	+102.0/-102.0
	6	+93.7/-93.7	+106.2/-106.2	+122.5/-122.5
TYPE C	4	+91.6/-91.6	+103.8/-103.8	+120.0/-120.0
	5	+114.5/-114.5	+130.0/-130.0	+130.0/-130.0
	6	+130.0/-130.0	+130.0/-130.0	+130.0/-130.0
TYPE D	4	+130.0/-130.0	+130.0/-130.0	+130.0/-130.0

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FLORIDA APPROVAL:
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FL#15883

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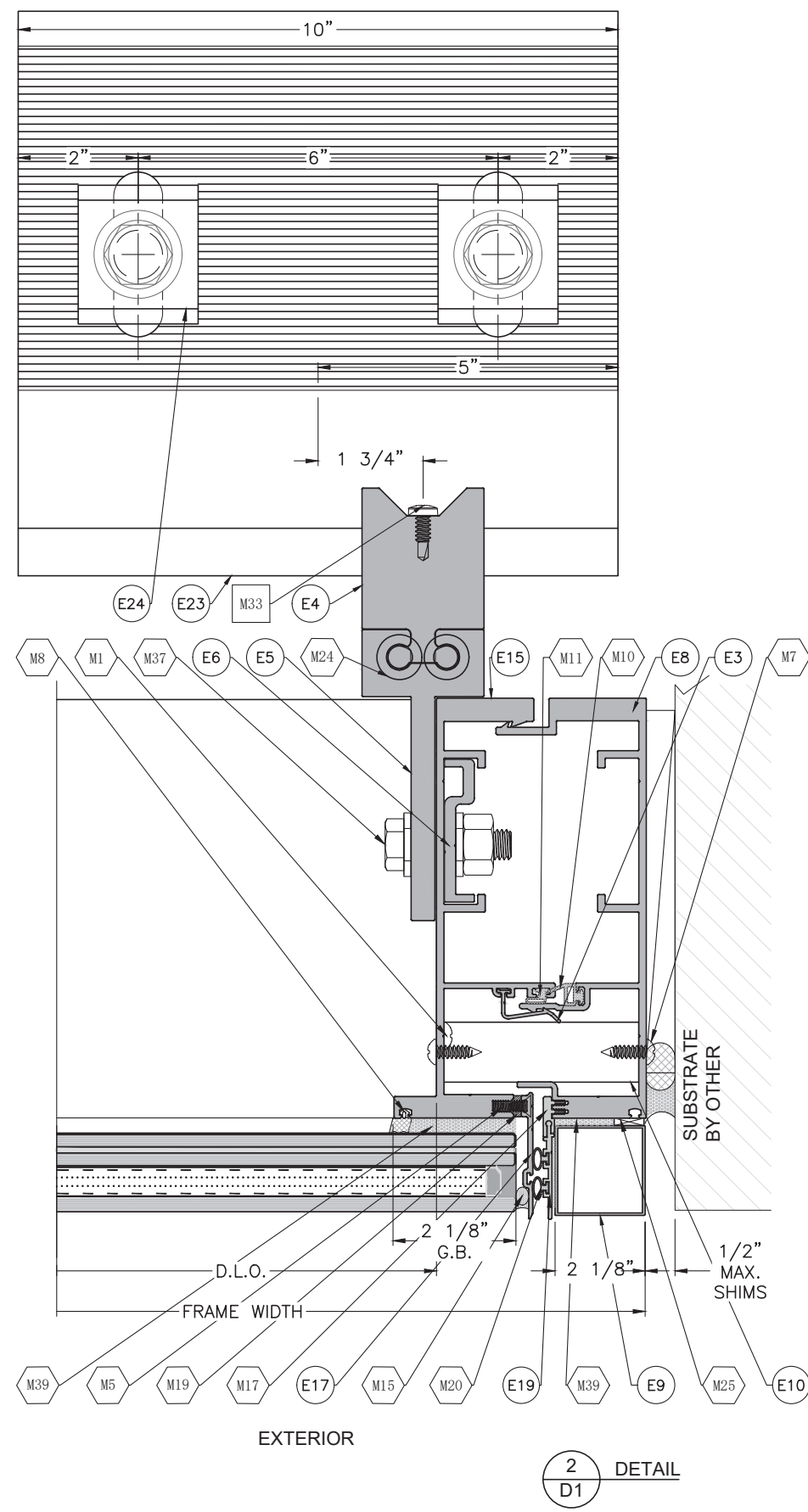
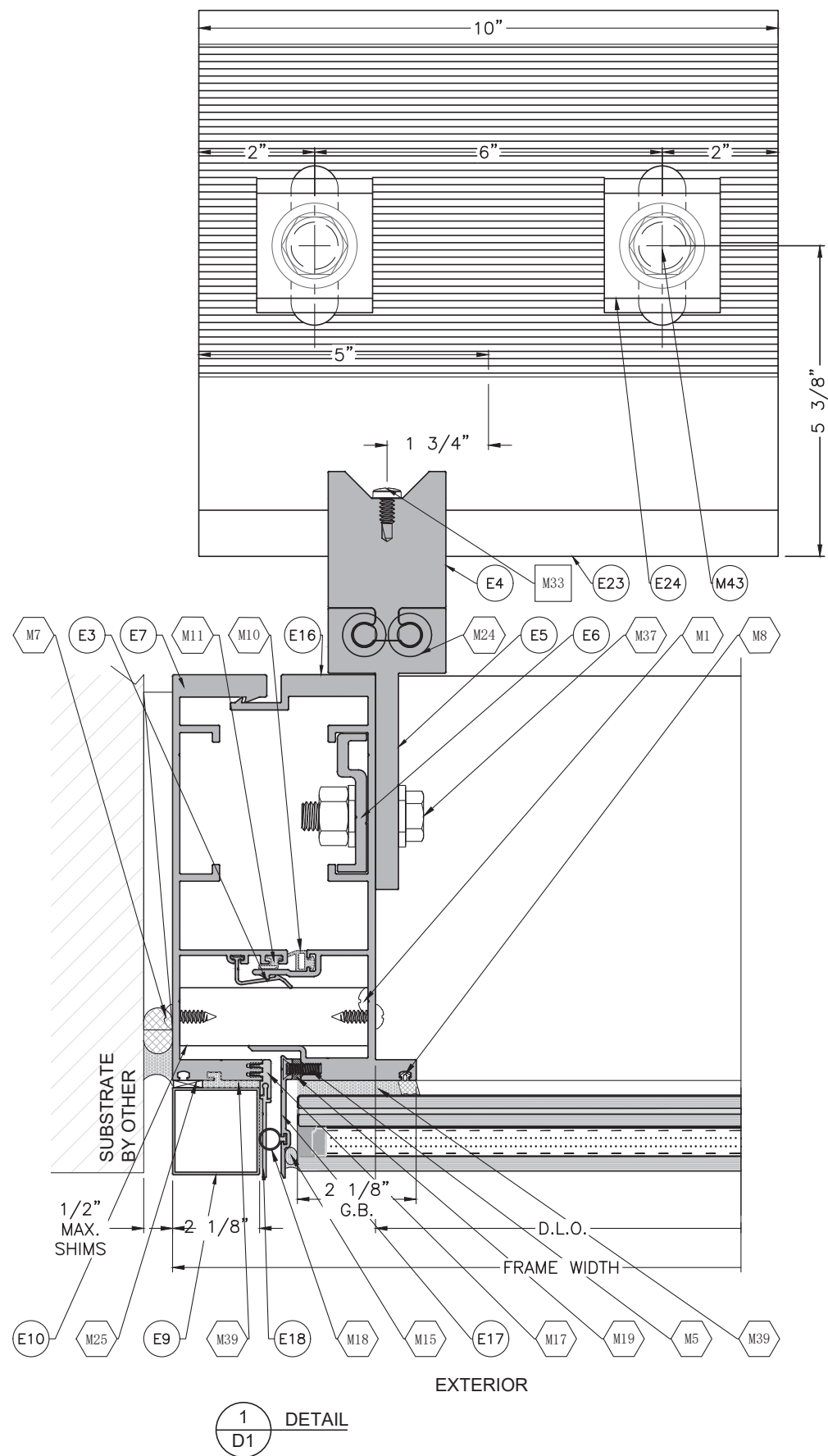
No 55989

STATE OF FLORIDA

PROFESSIONAL ENGINEER

March 07th, 2024

A1	
DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010
DRAWING NO. AD24-06	
06 OF 30	



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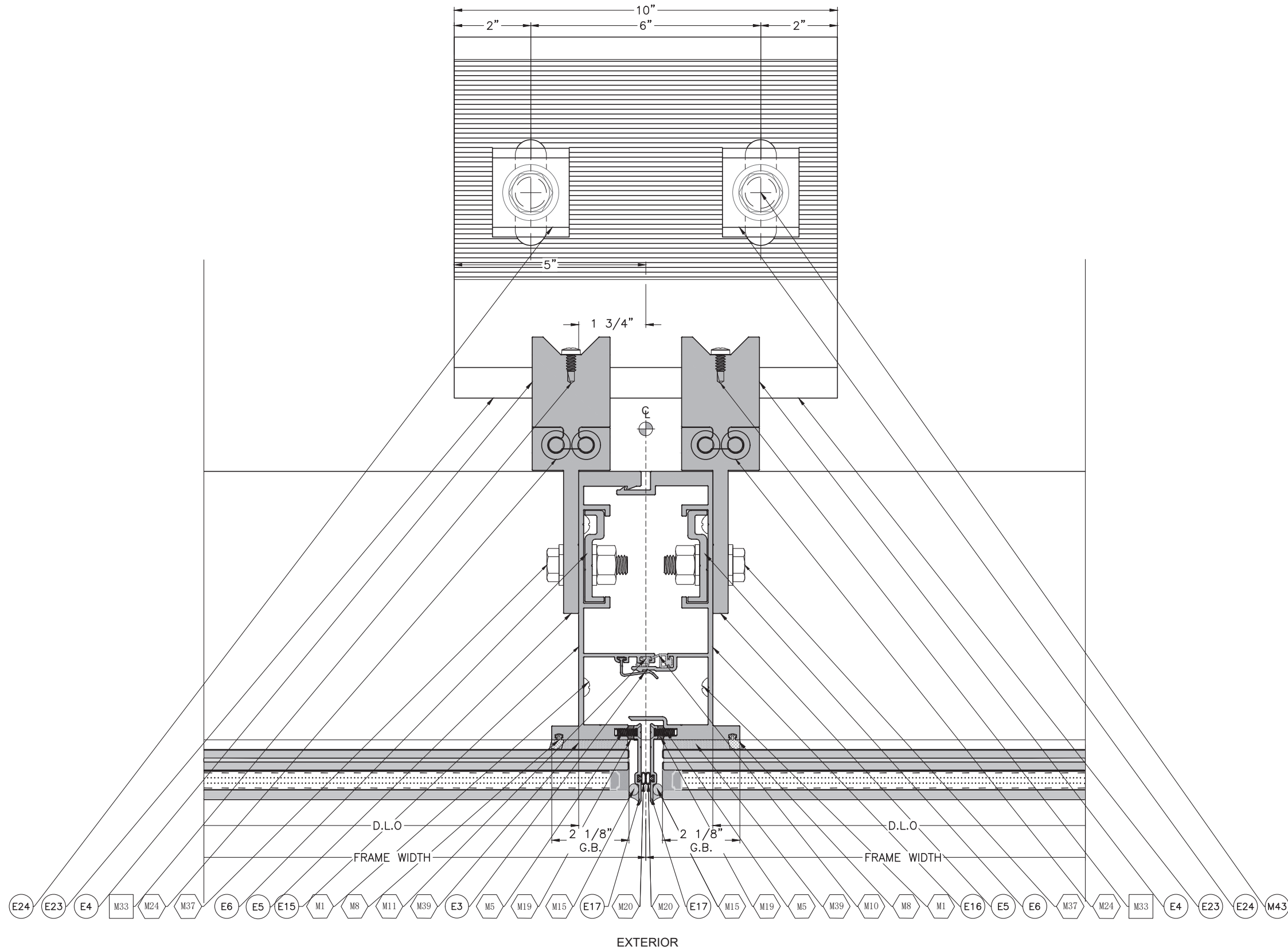
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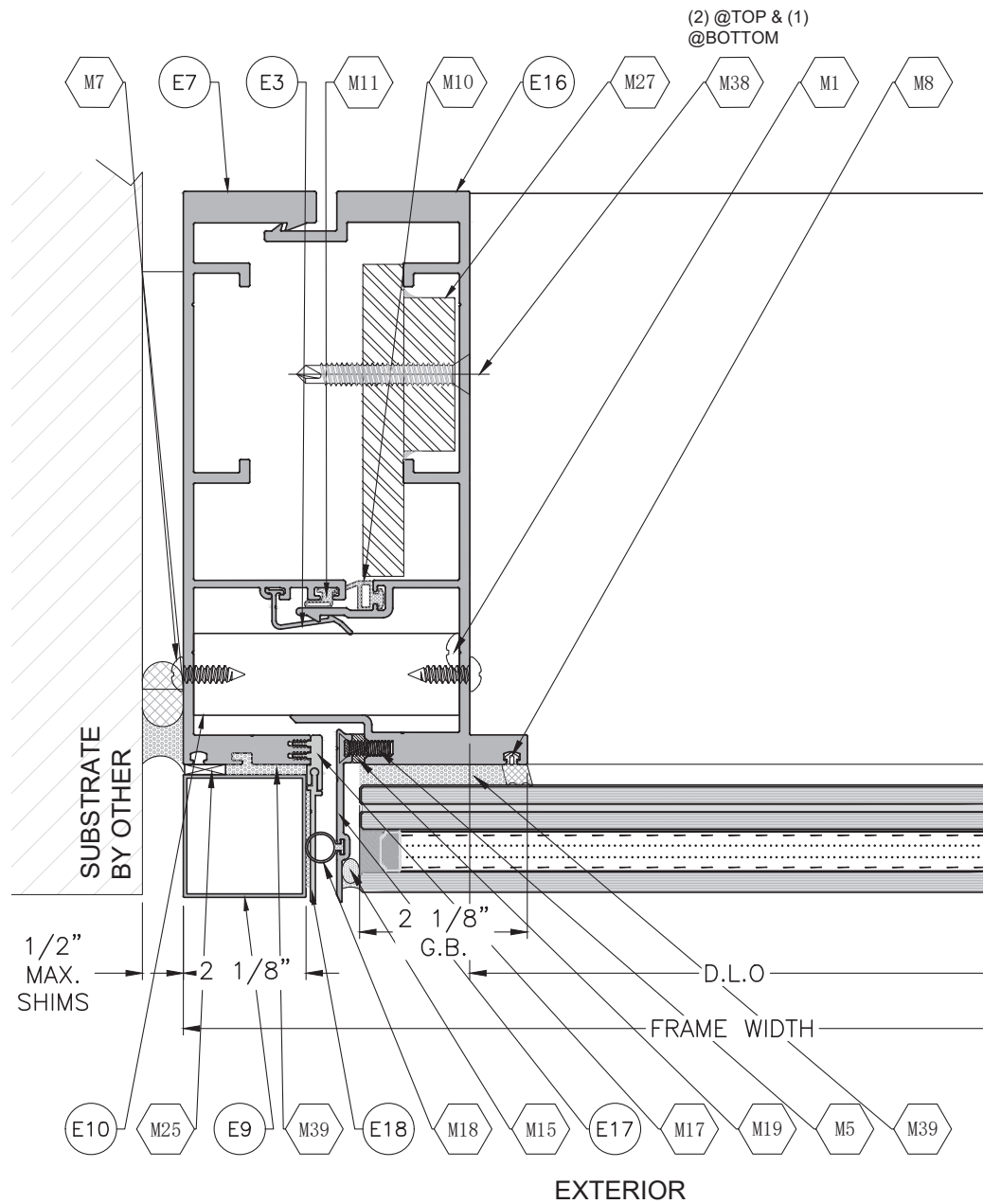
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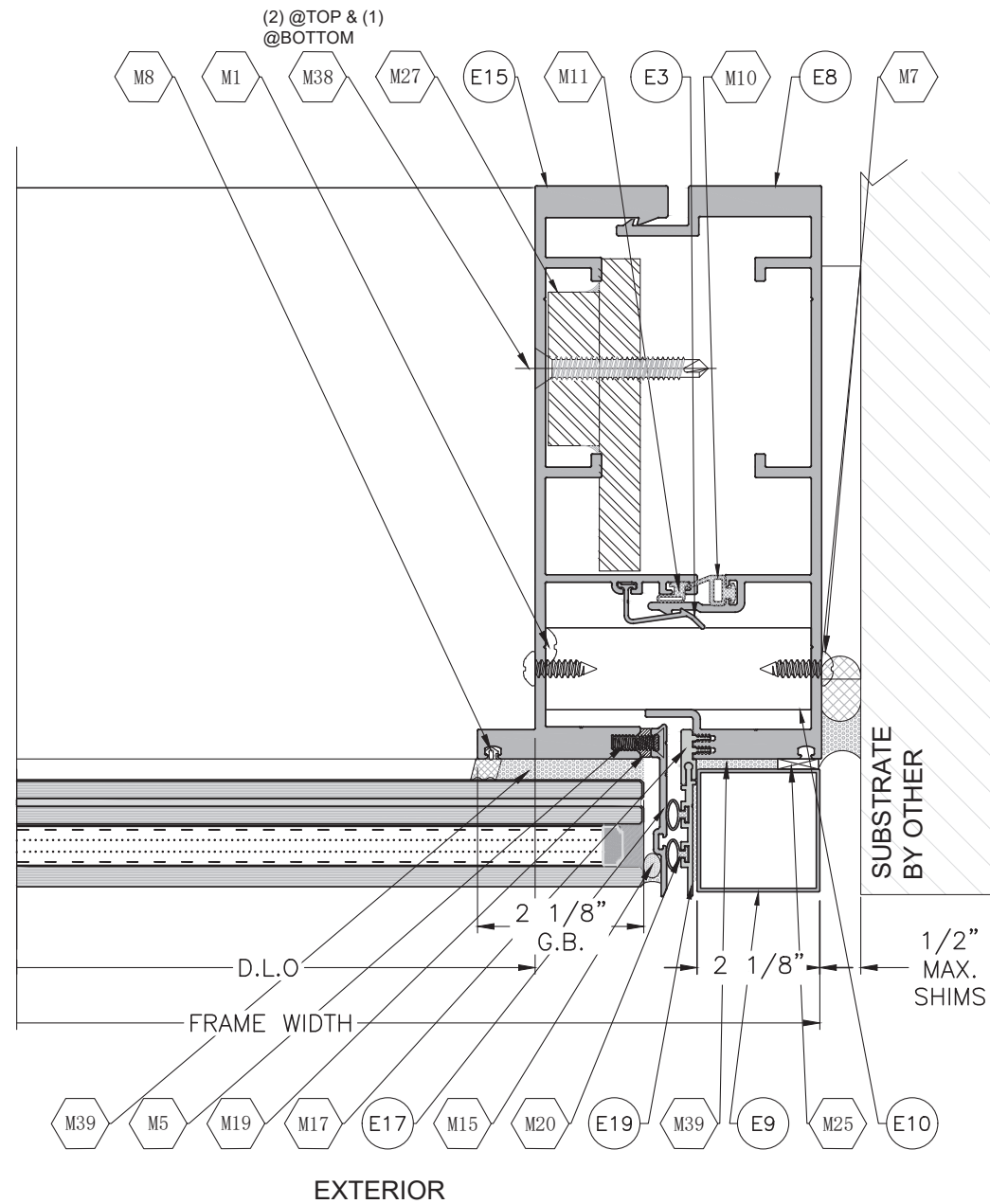
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D2	
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08 OF 30	



1
D3
DETAIL



2
D3
DETAIL

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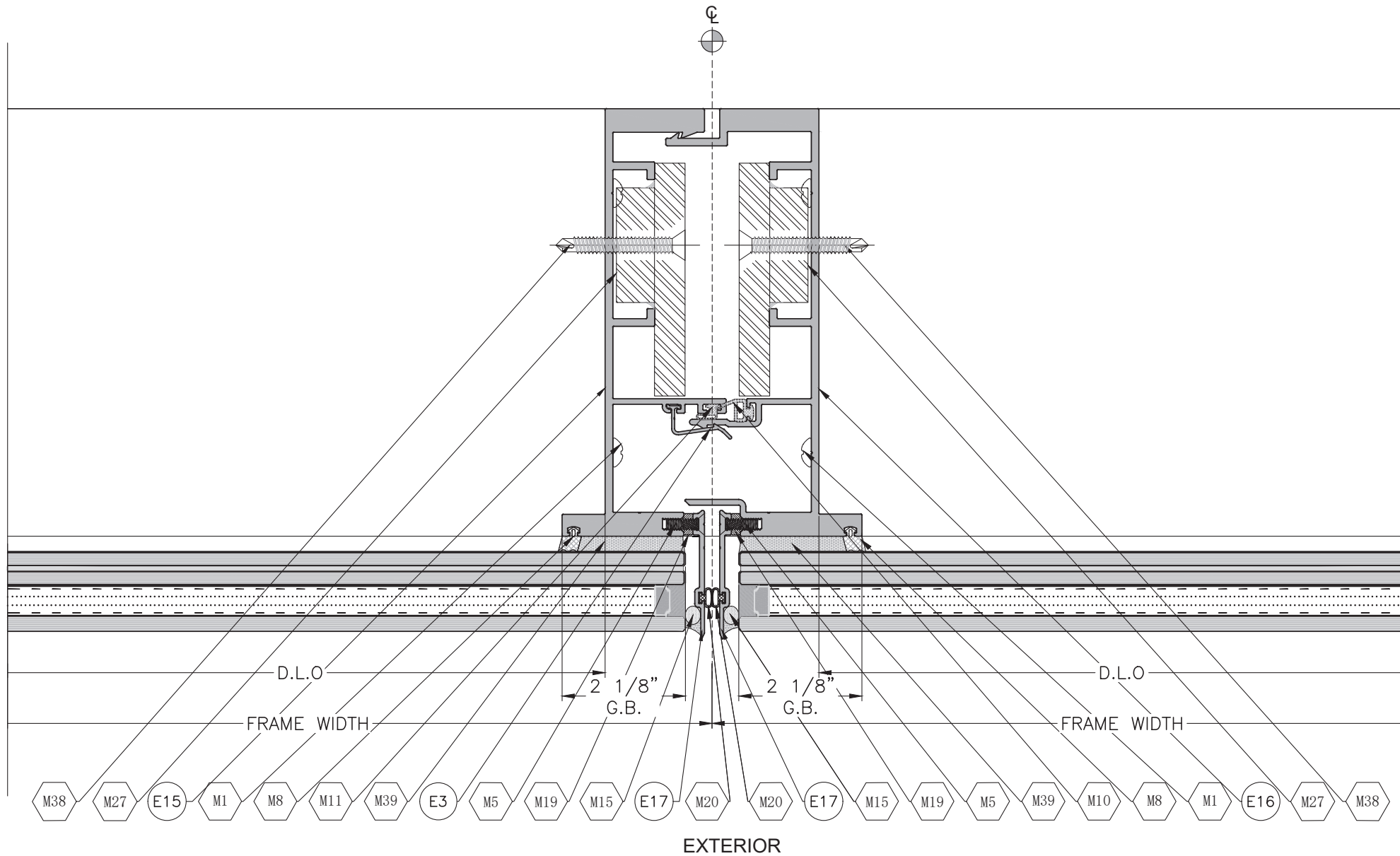
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09 OF 30	



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D4

DETAIL

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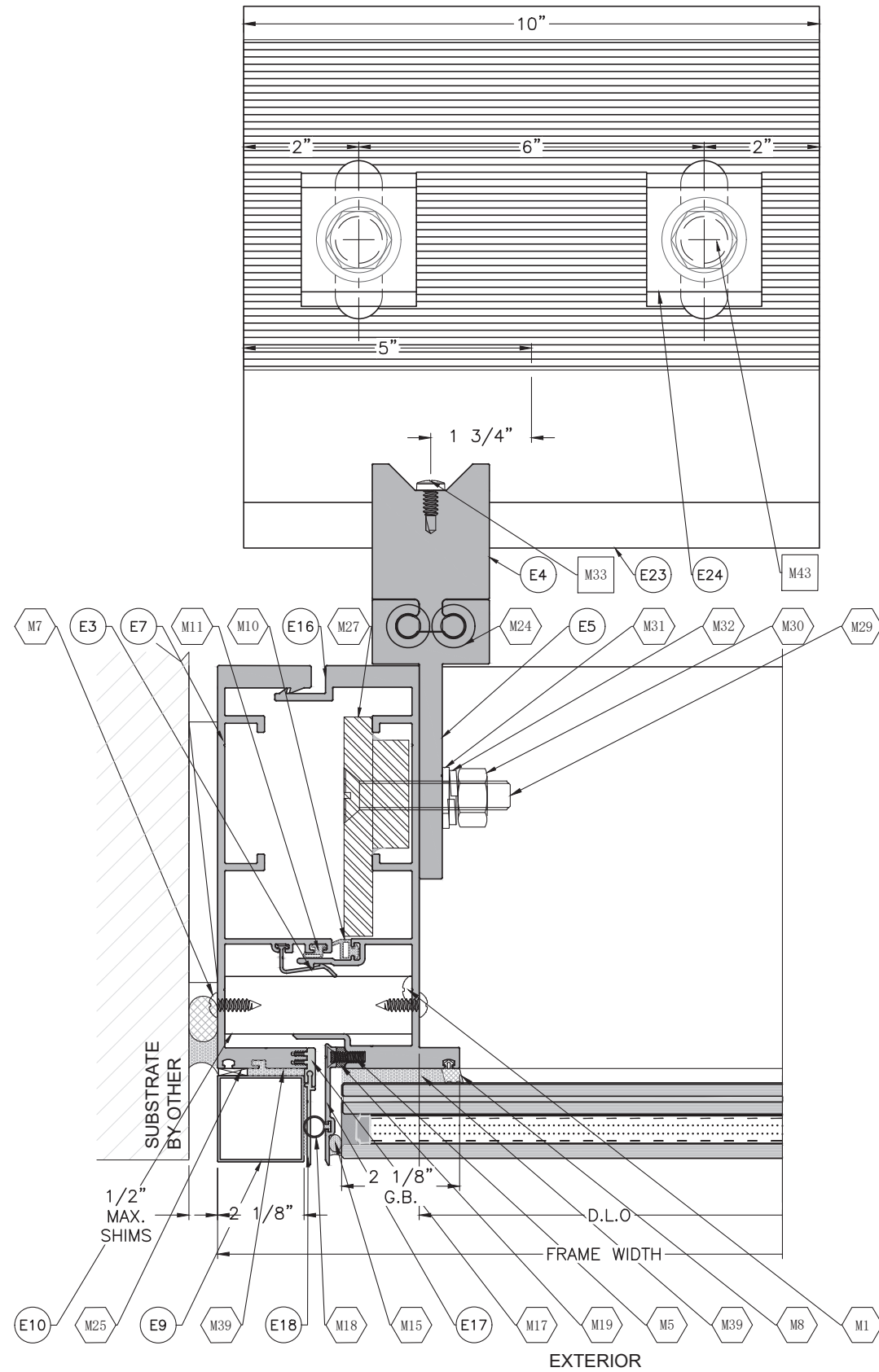
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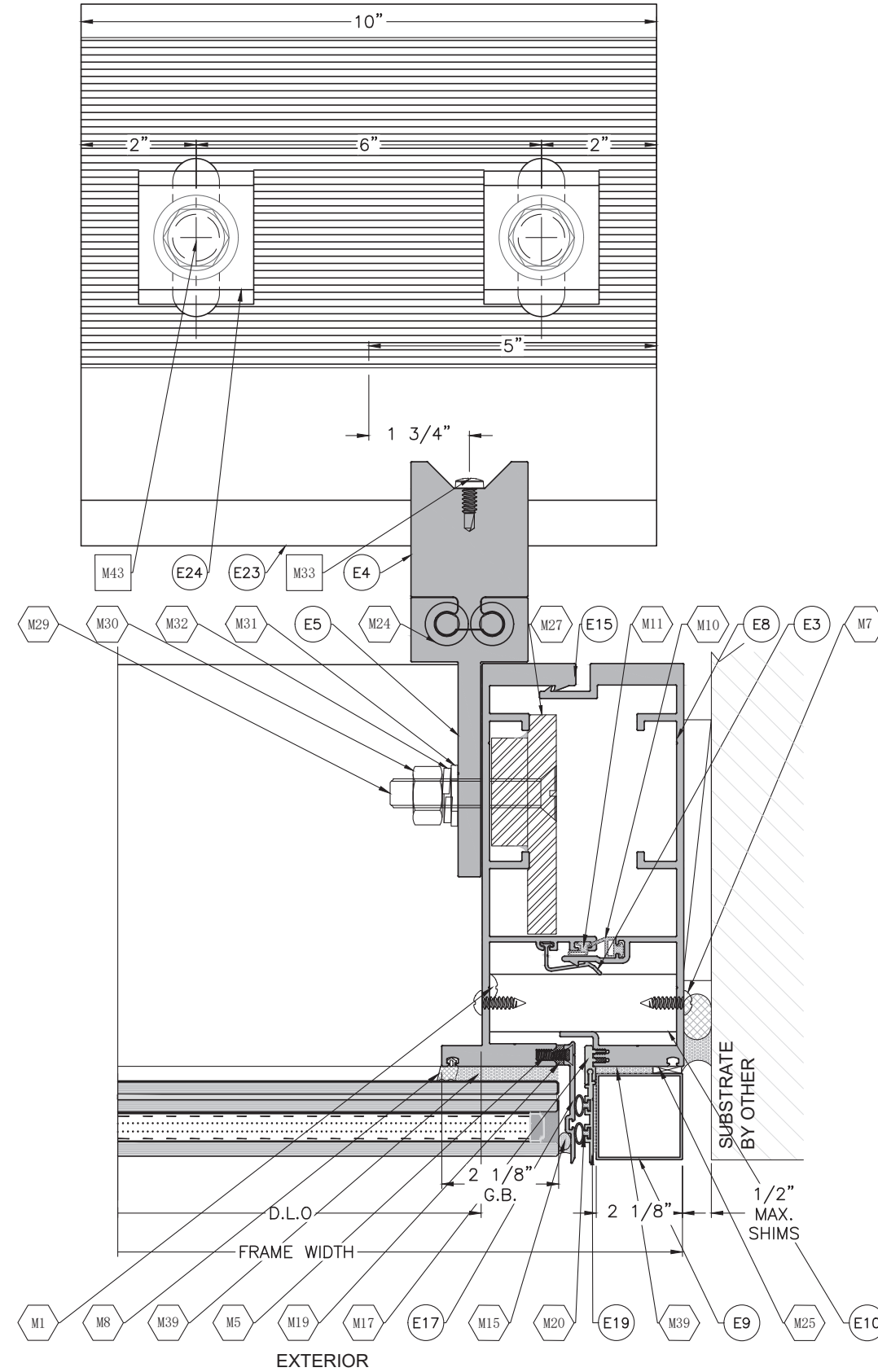
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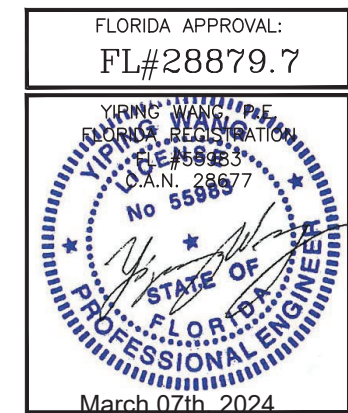
D4	
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1
D5 DETAIL



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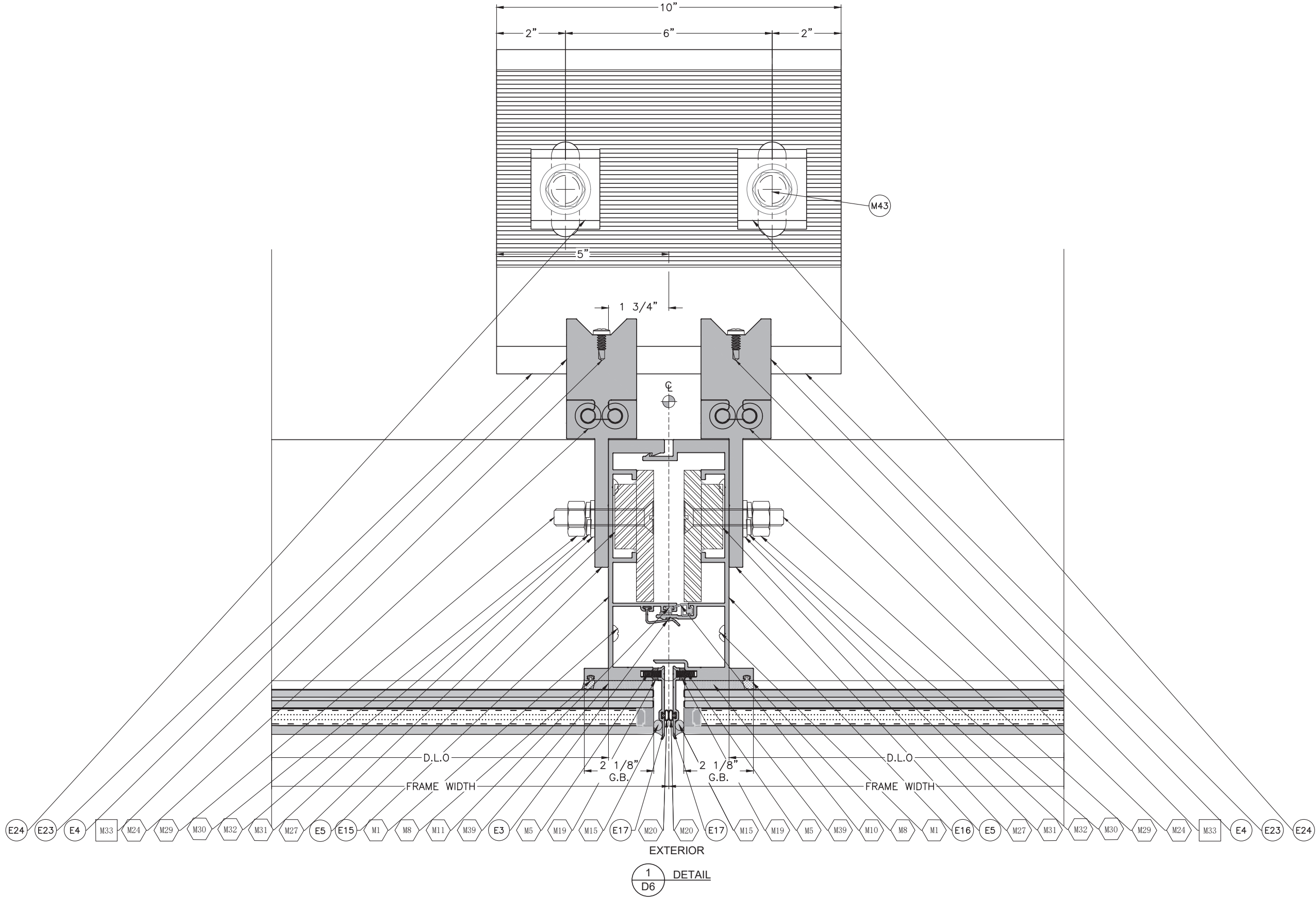
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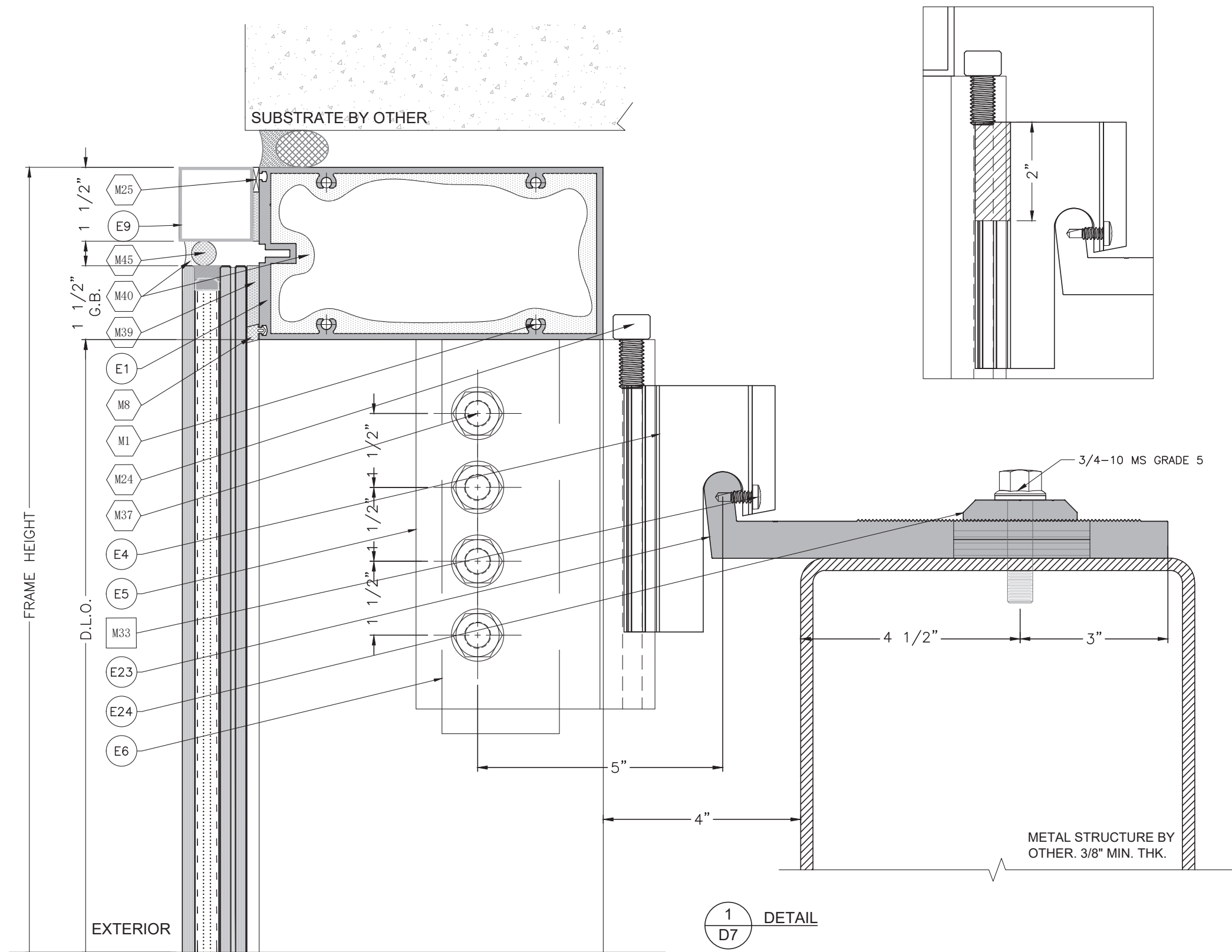
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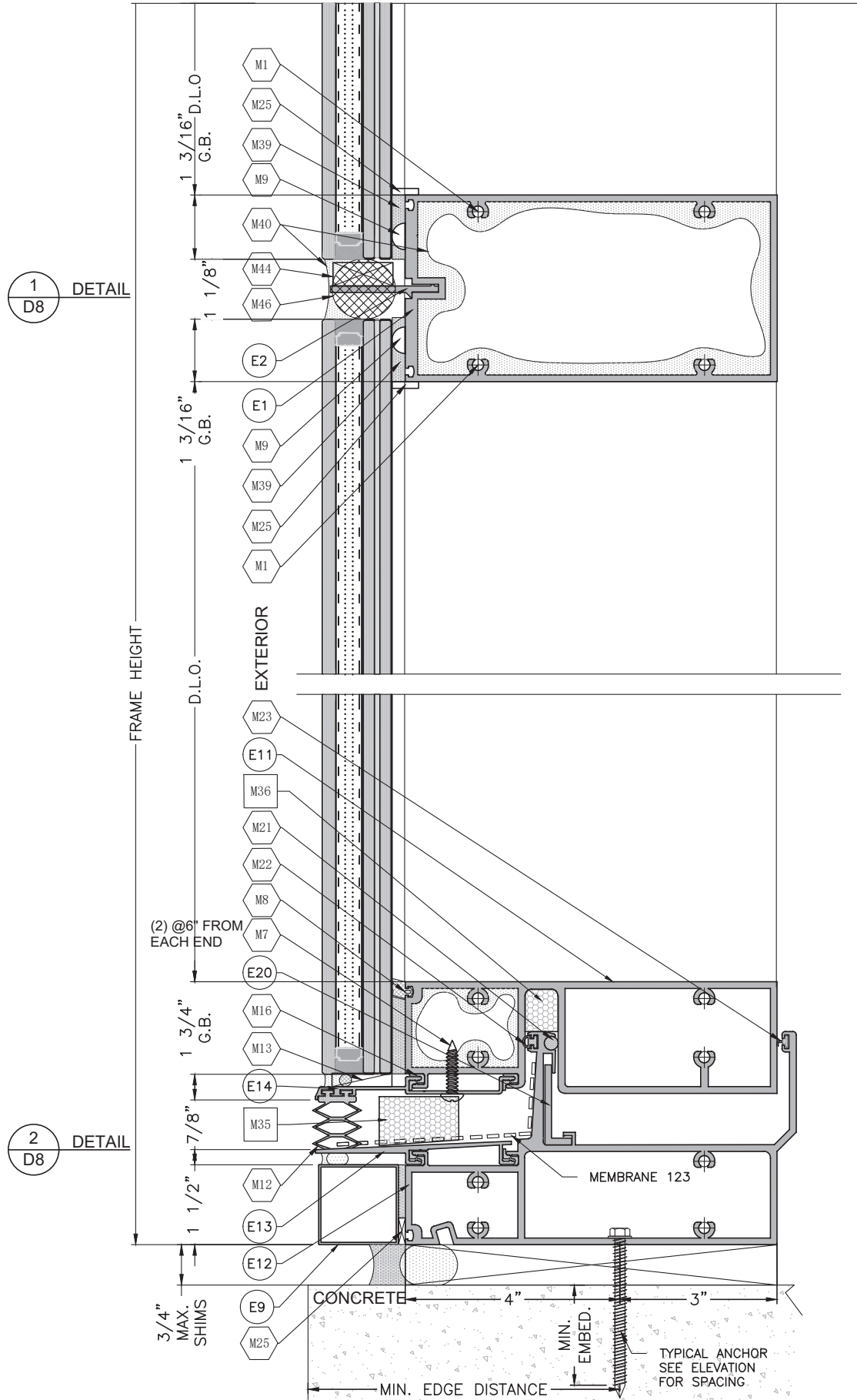
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3550 NW 49TH STREET
MIAMI, FL 33142
PH: (305) 342-0890 FAX (786) 513-3965

D7	
DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD24-06



FLORIDA APPROVAL:
FL#28879.7



March 07th, 2024

SERIES 7000 ALUMINUM CURTAIN WALL - LMI & SMI
TECNOGLASS, LLC
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PH: (305) 342-0890 FAX (786) 513-3965

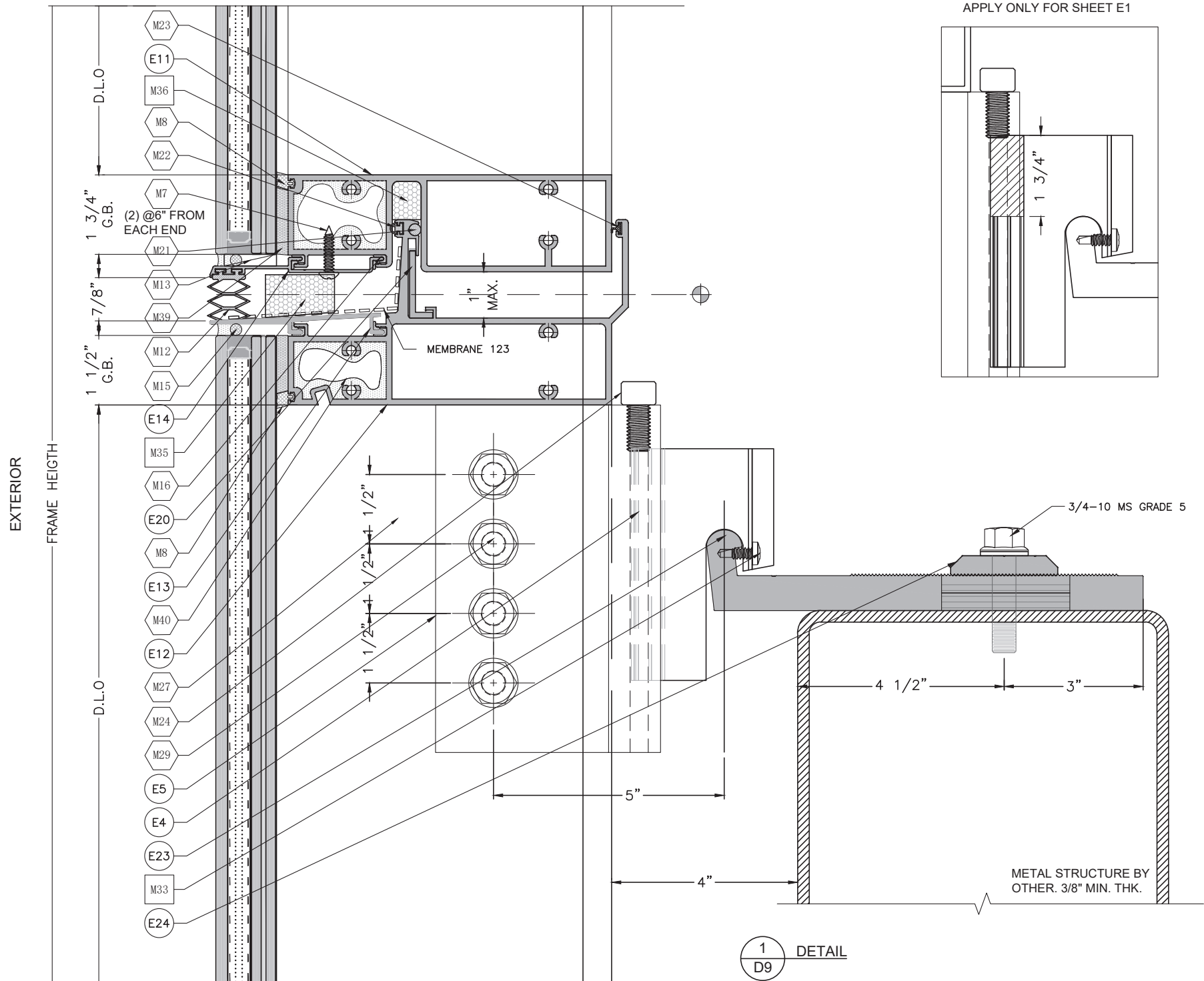
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DRAWING NO.
AD24-06

14 OF 30

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIARAMAR PARKWAY #301
MIARAMAR, FL 33027
P: 305.271.0117
F: 305.588.5224
www.MCYEngineering.com
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FLORIDA APPROVAL:
FL#28879.7

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55989
C.E. 15883
A.N. 28677

STATE OF
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March 07th, 2024

REVISIONS	
NO.	DATE
1	03.06.2024
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MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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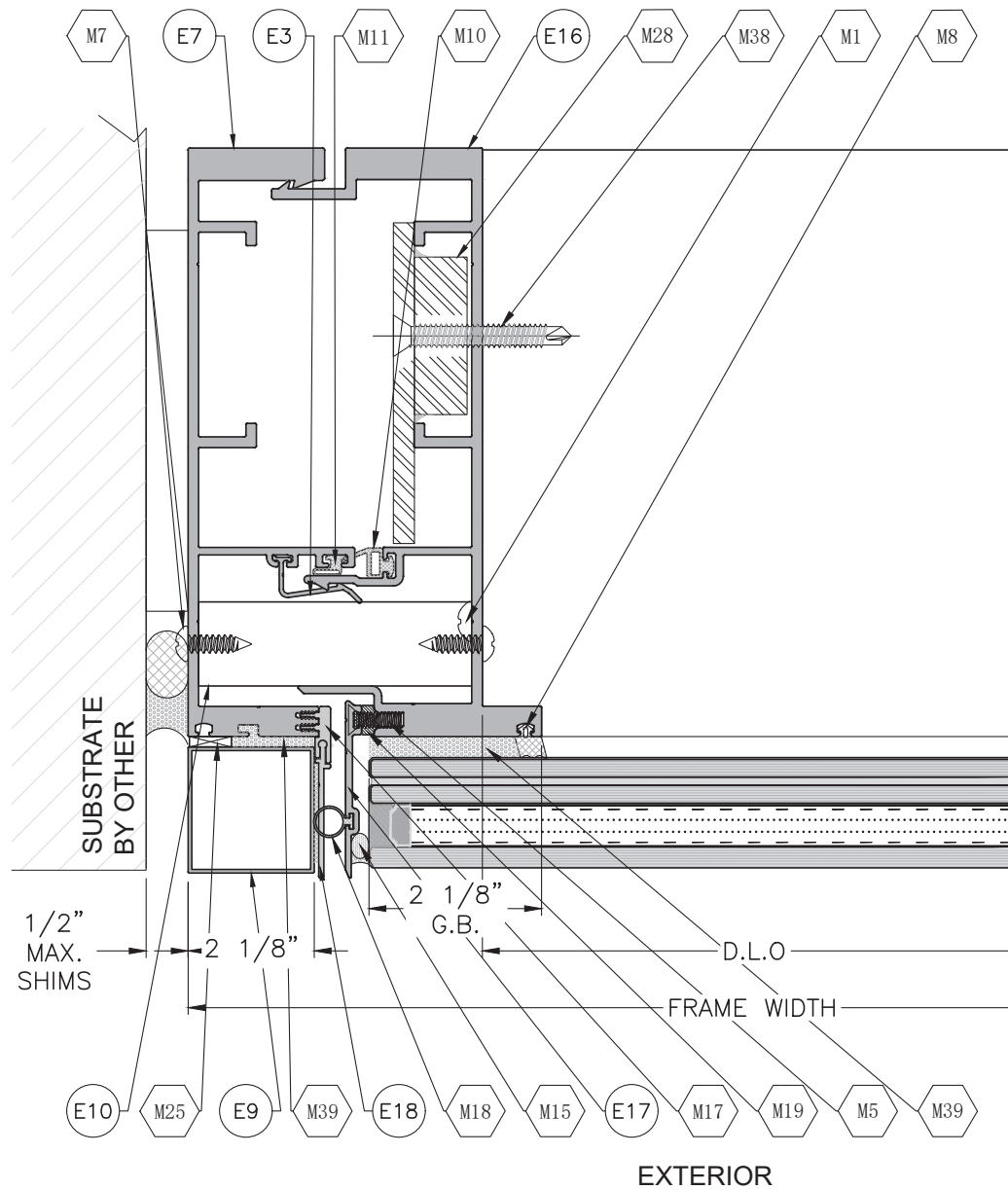
12781 MIARAMAR PARKWAY #301
MIARAMAR, FL 33027
P: 305.271.0117
F: 305.588.5224
www.MCYEngineering.com

SERIES 7000 ALUMINUM CURTAIN WALL - LMI & SMI

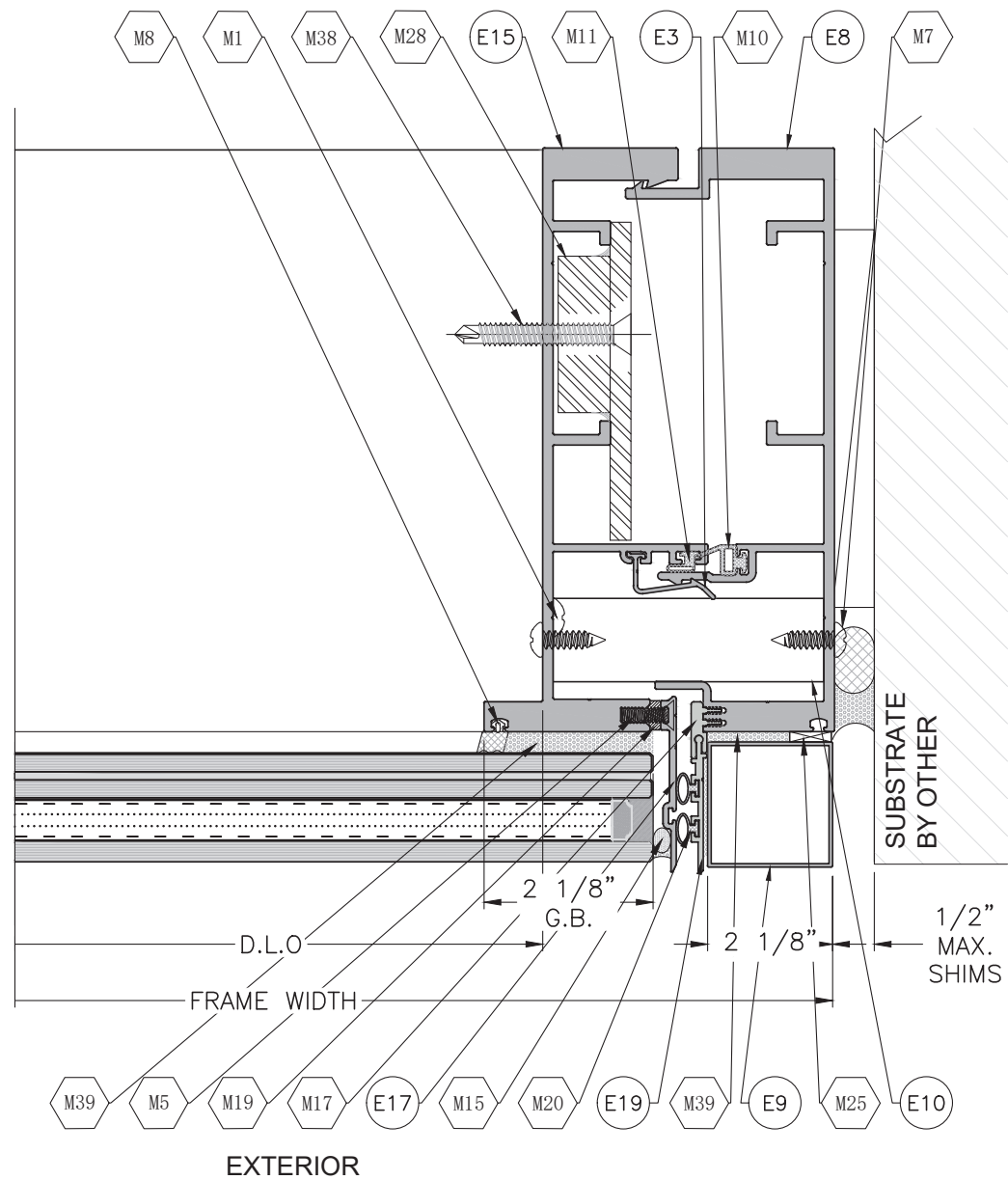
TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
PH: (305) 342-0890 FAX (786) 513-3965

D9	
DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD24-06



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DETAIL



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DETAIL

FLORIDA APPROVAL:
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YIPING WANG, P.E.
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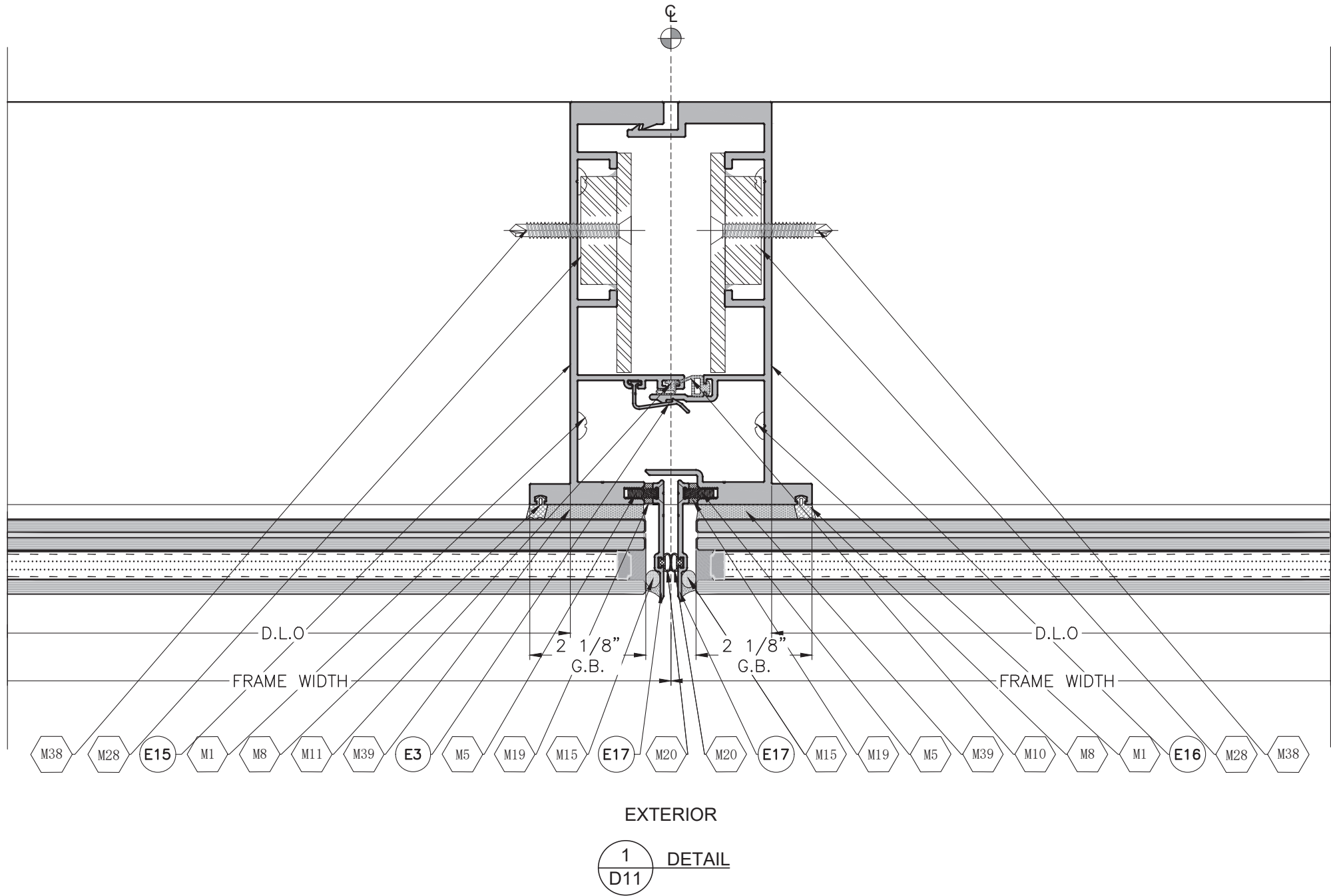
SERIES 7000 ALUMINUM CURTAIN WALL - LMI & SMI

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PH: (305) 342-0890 FAX (786) 513-3965

D10	
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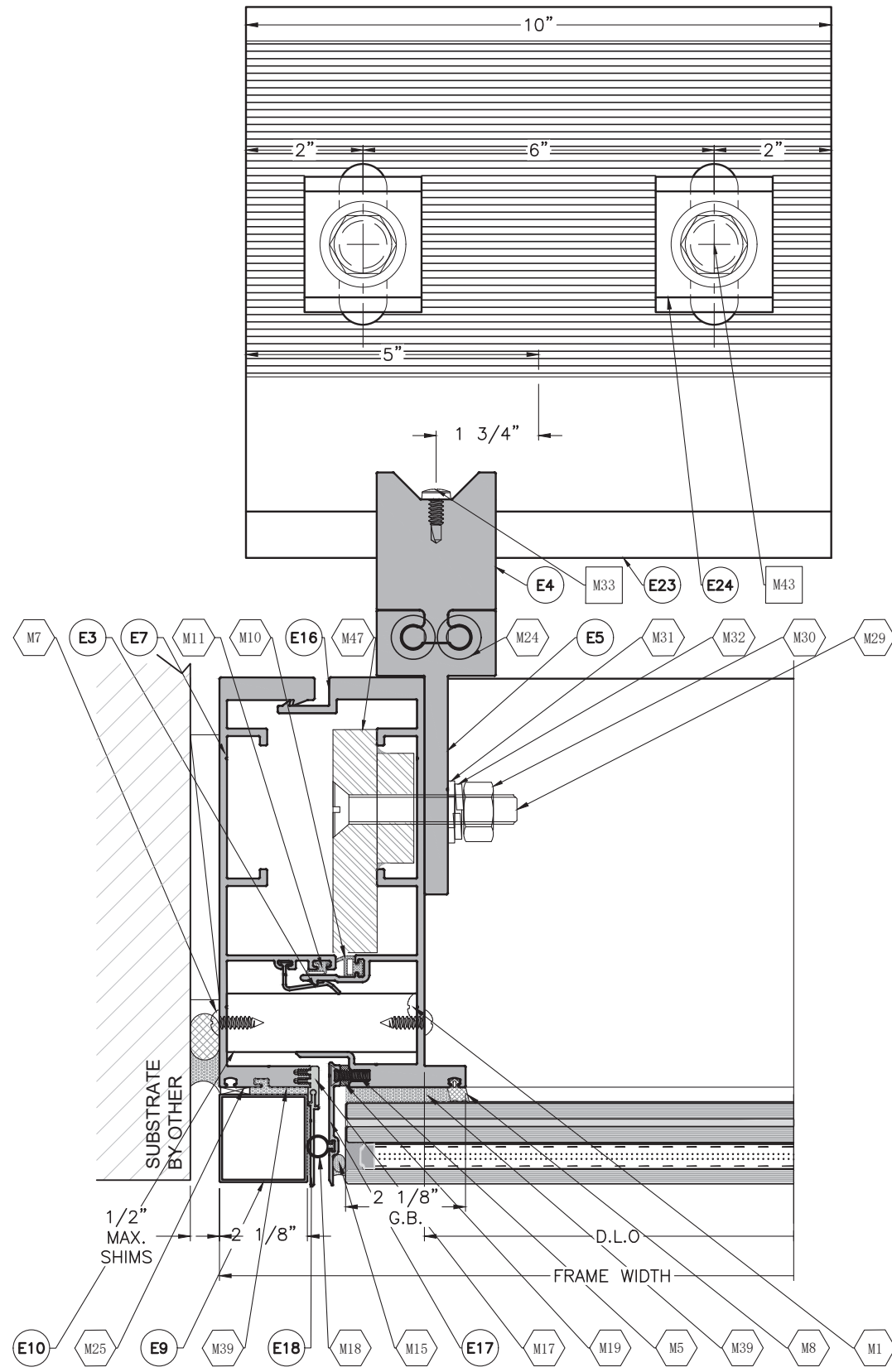
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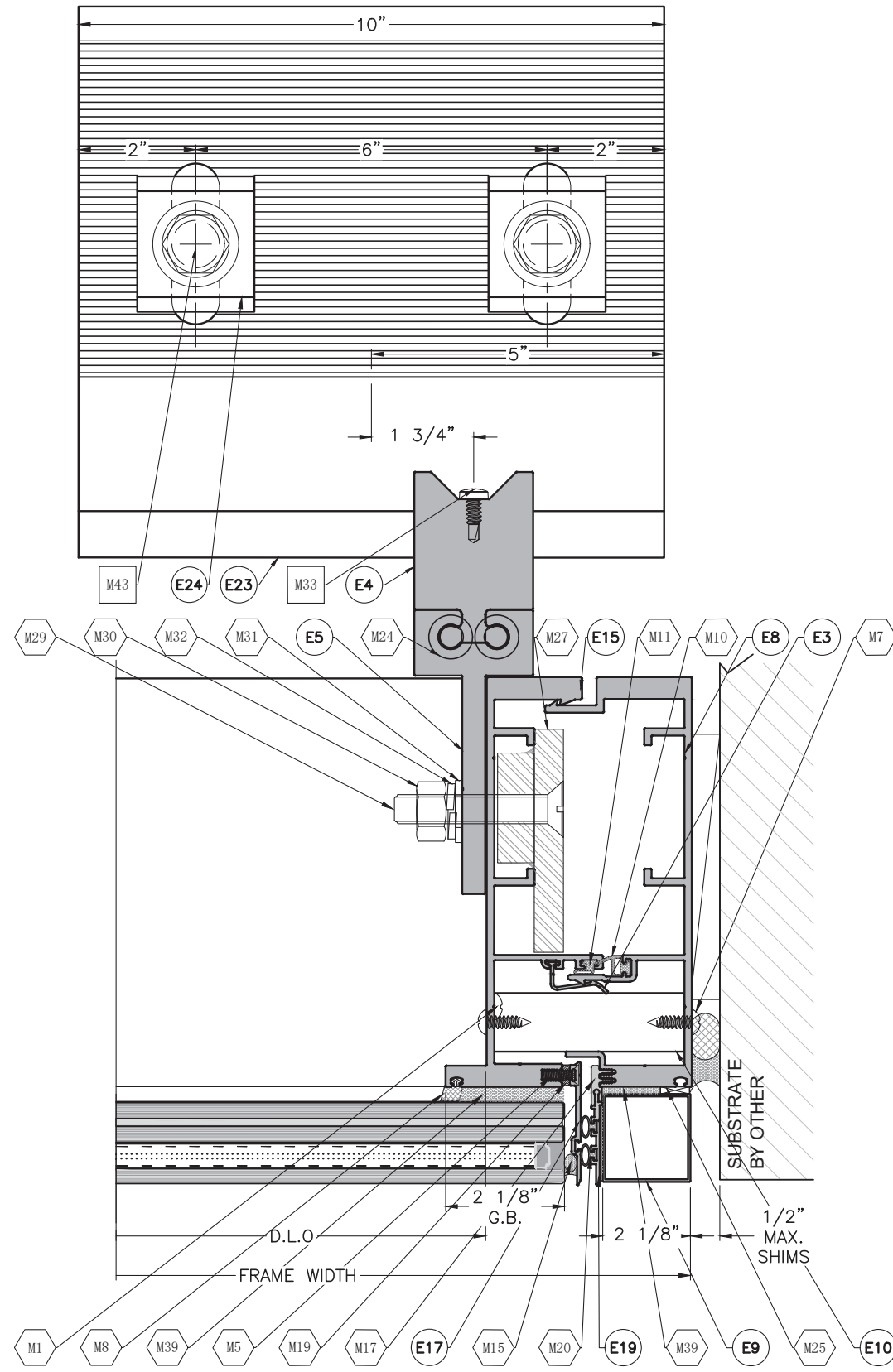
TECNOGLASS, LLC
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PH: (305) 342-0890 FAX (786) 513-3965

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DRAWING NO.
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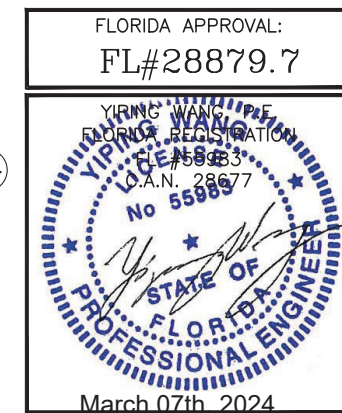
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DRAWN	James
PROJECT	MCY19-010
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REVISIONS	
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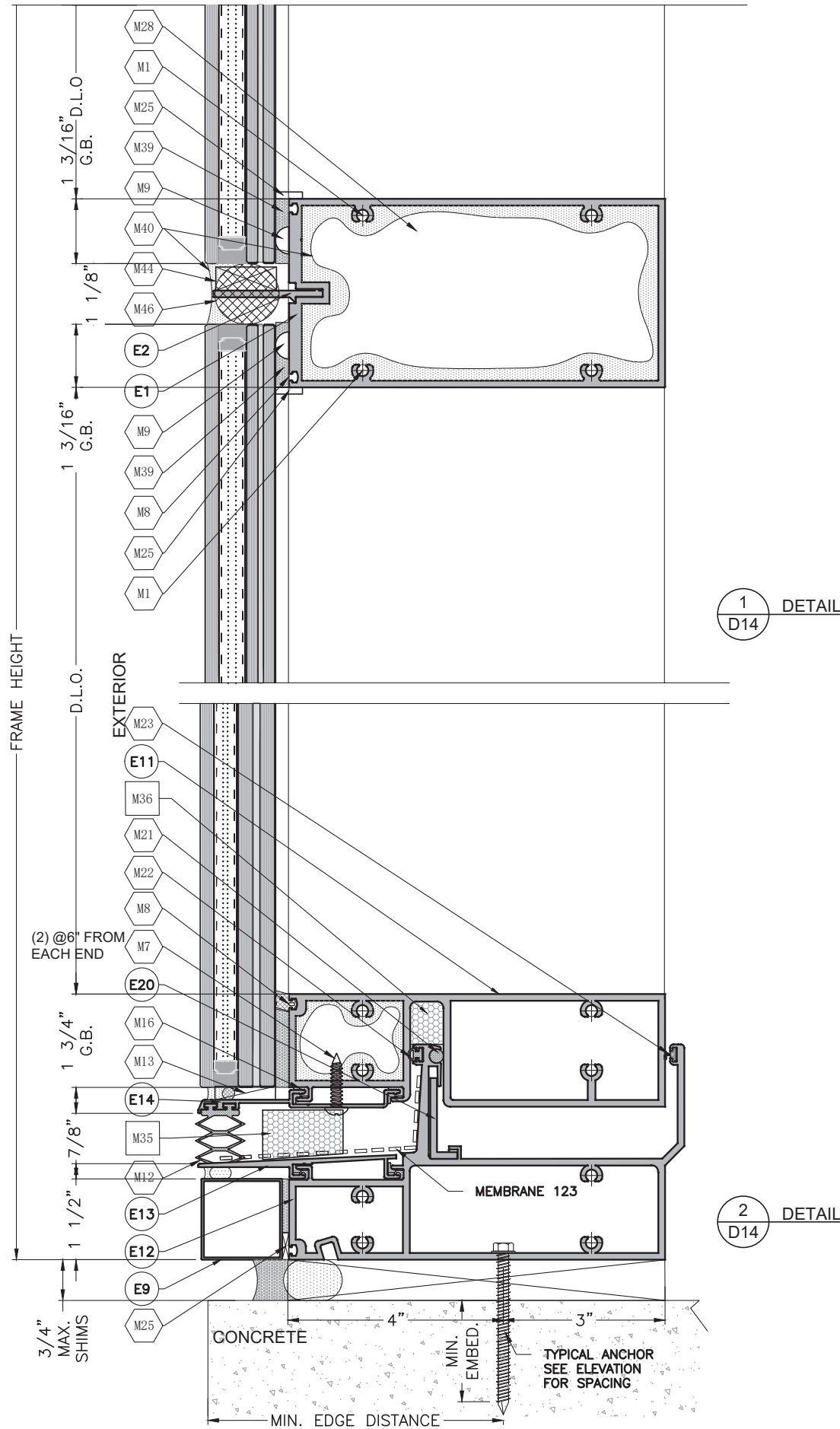
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3550 NW 49TH STREET
MIAMI, FL 33142

PH: (305)-342-0890 FAX (786) 513-3965

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YIPING WANG, P.E.
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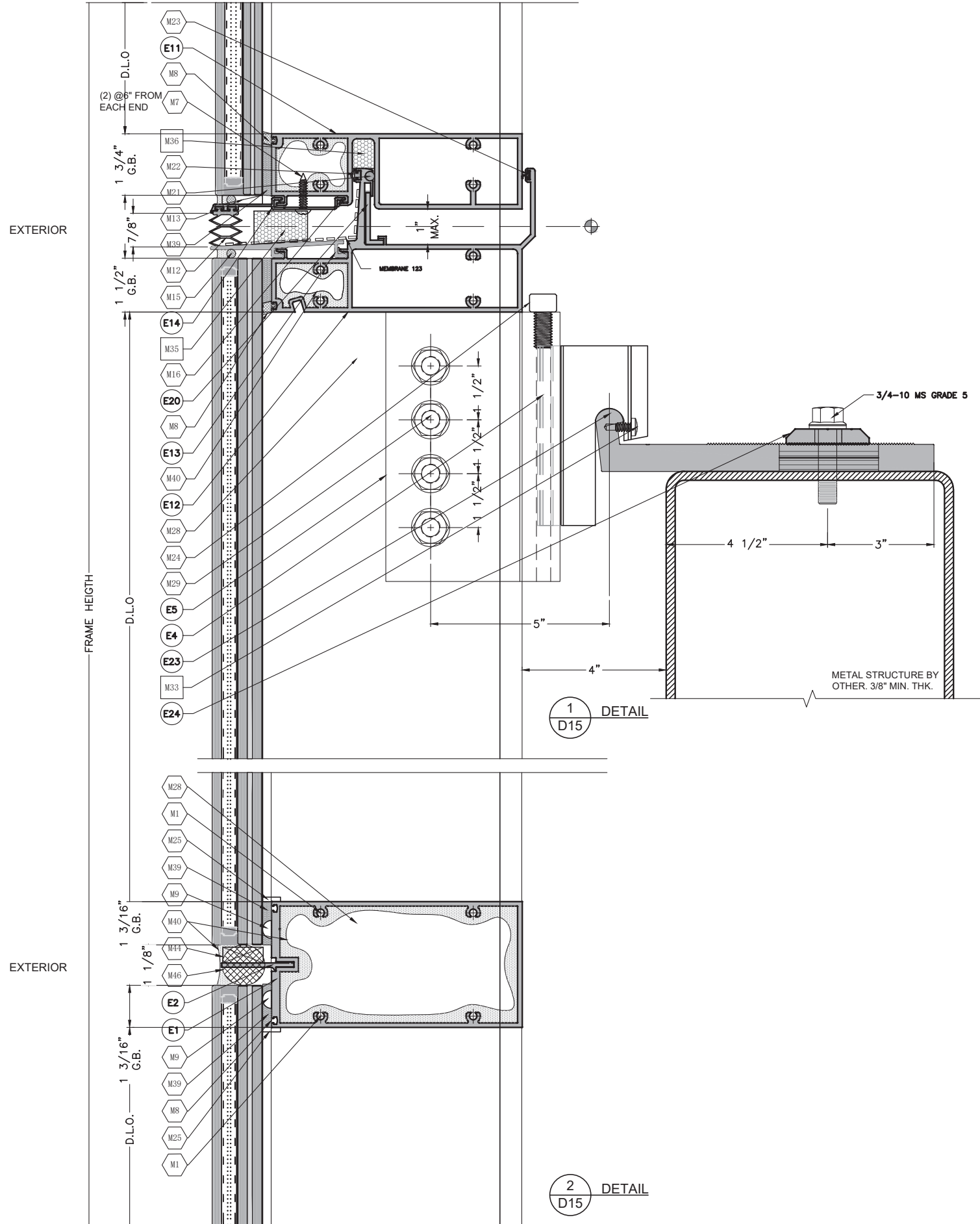
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YIPING WANG, P.E.
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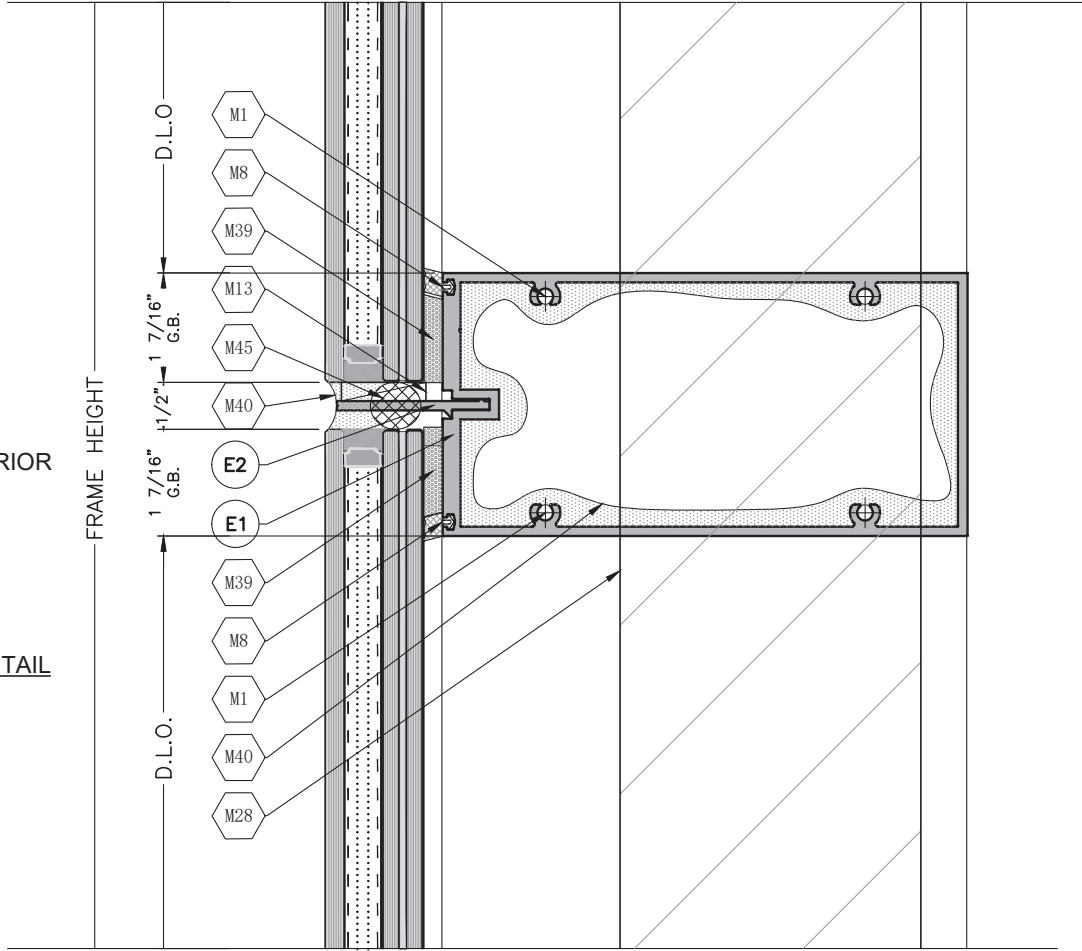
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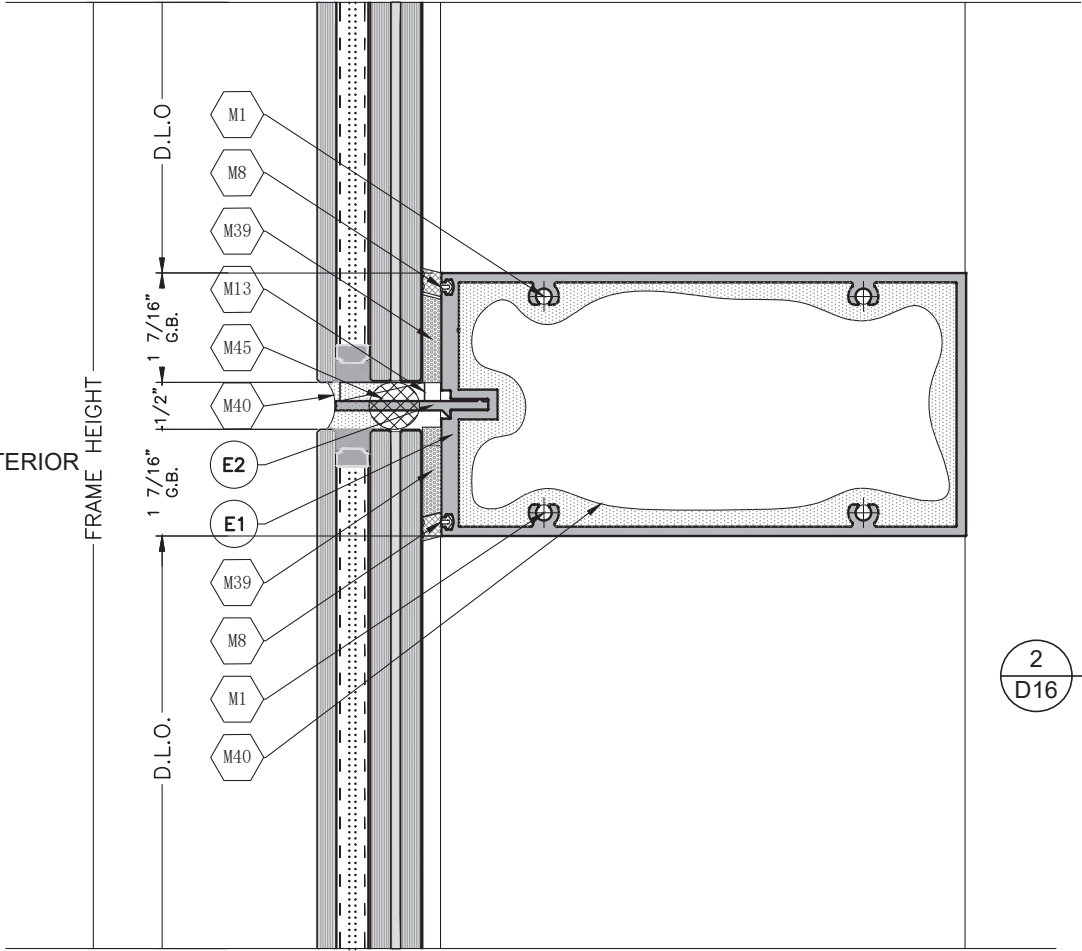
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FLORIDA APPROVAL:
FL#28879.7

YIPING WANG, P.E.
FLORIDA REGISTRATION
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STATE OF
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SERIES 7000 ALUMINUM CURTAIN WALL - LMI & SMI

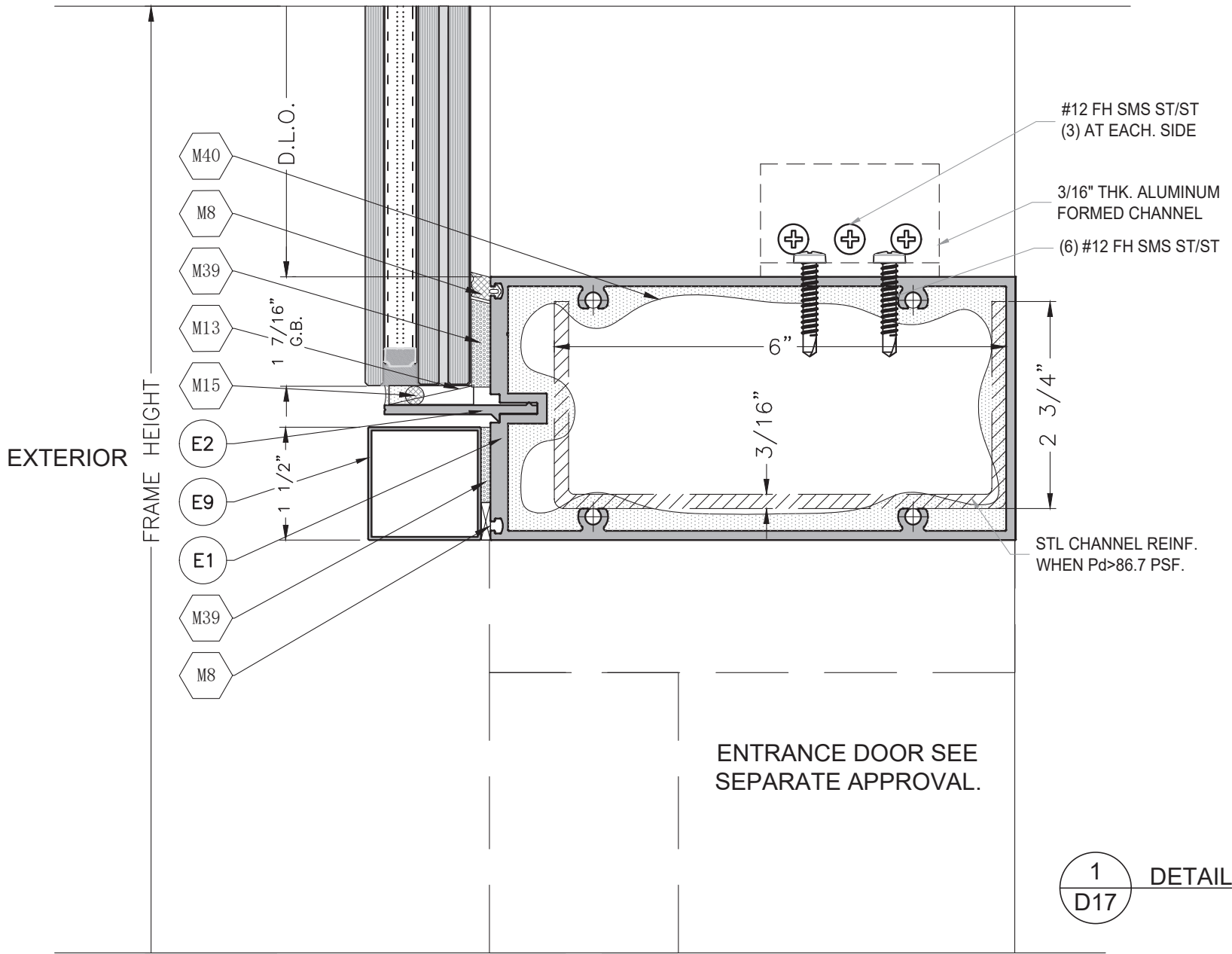
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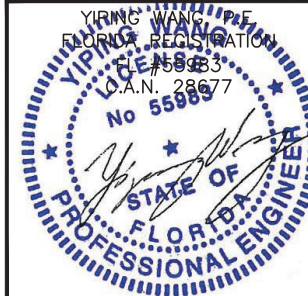
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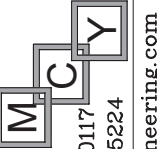
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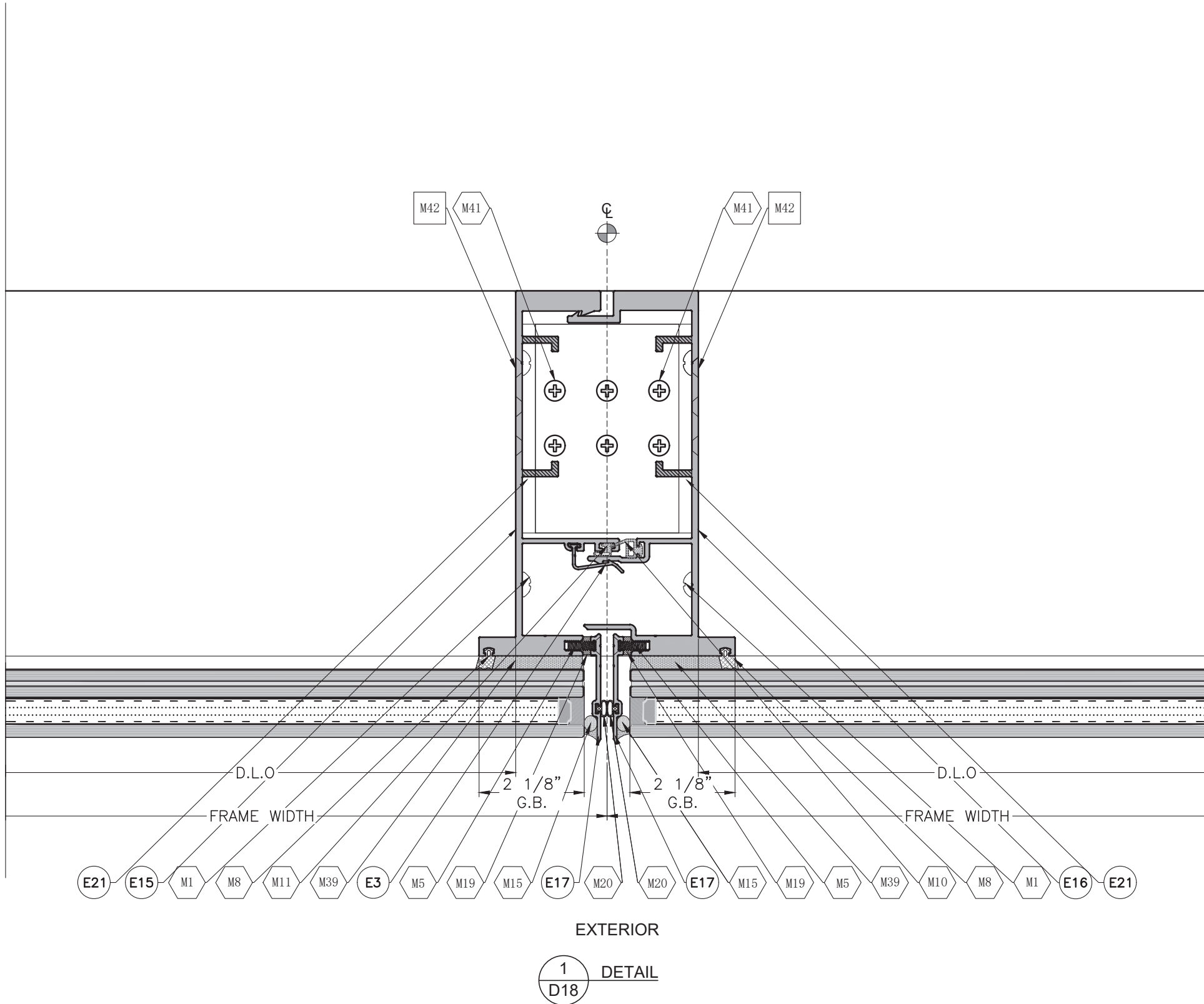


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FLORIDA APPROVAL:
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STATE OF
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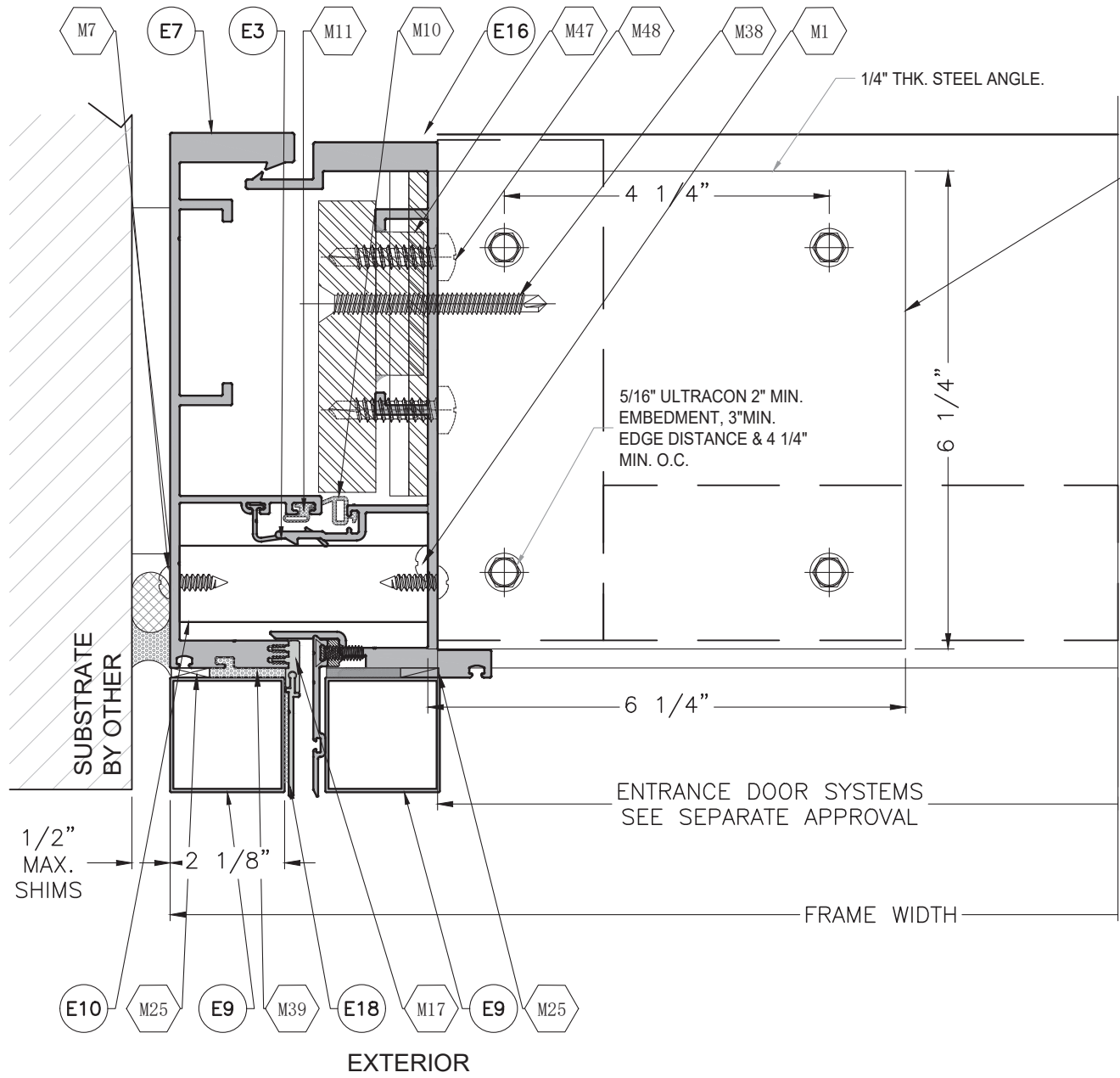
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MIAMI, FL 33142

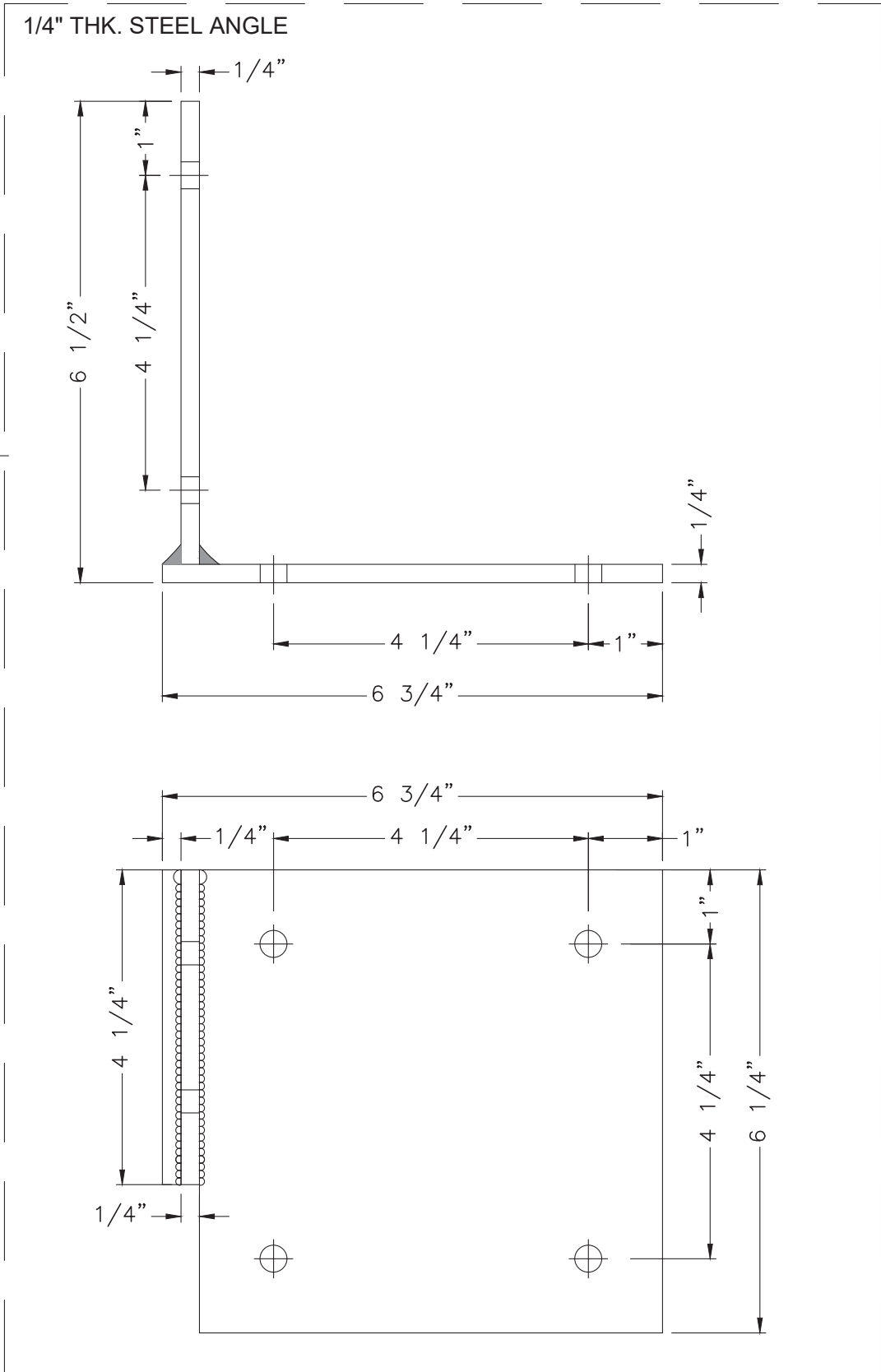
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D18	
DATE	03.06.2024
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FLORIDA APPROVAL:
FL#28879.7

YIPING WANG, P.E.
FLORIDA REGISTRATION
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March 07th, 2024

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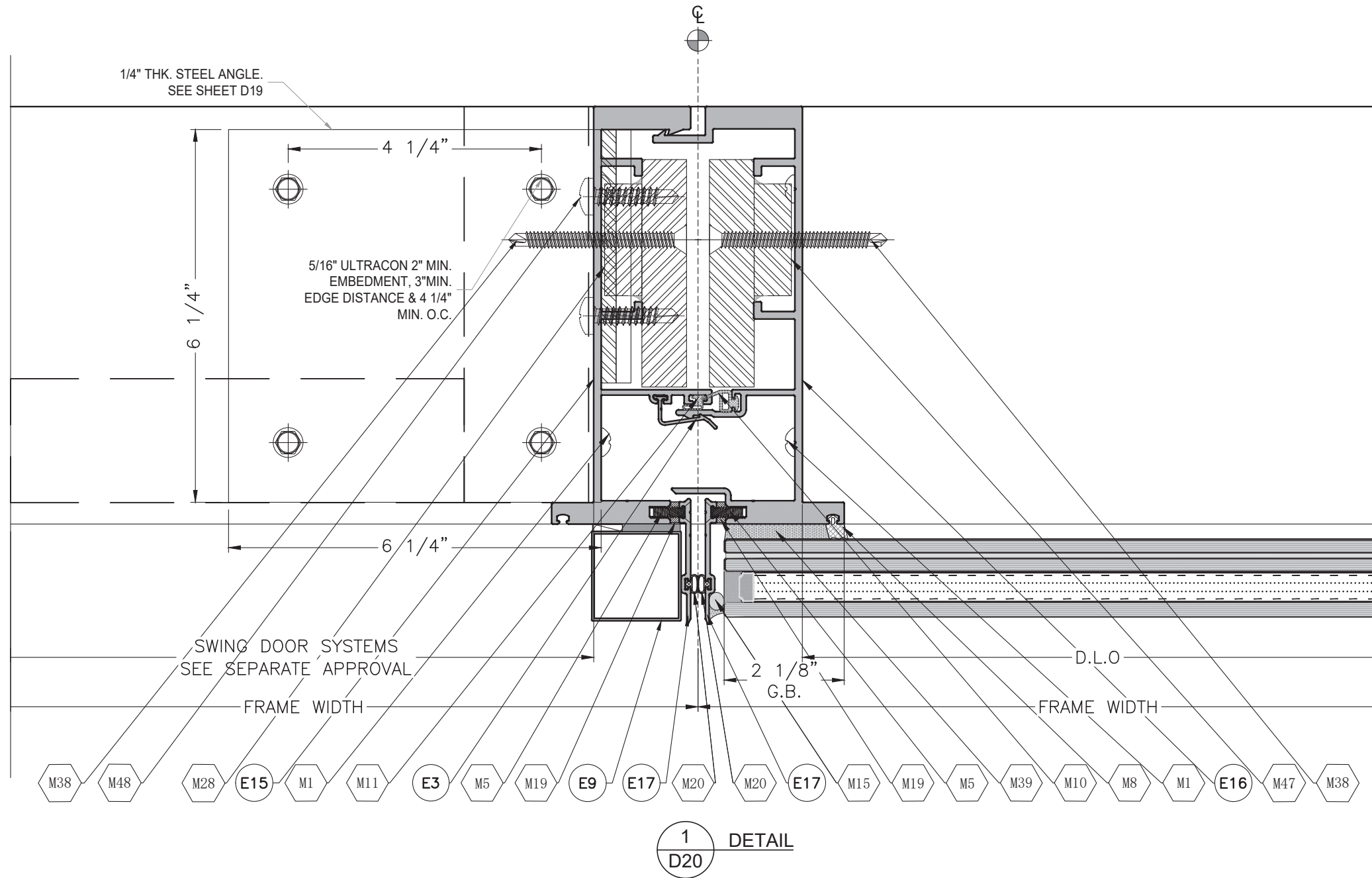
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D20	
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PROJECT	MCY19-010
DRAWING NO. AD24-06	
26 OF 30	

REVISIONS

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01	03.06.2024	NEW

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YIPING WANG, P.E.
FLORIDA REGISTRATION
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March 07th, 2024

PARTS

DATE	03.06.2024
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DRAWN	James
PROJECT	MCY19-010

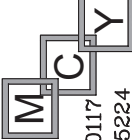
DRAWING NO.
AD24-06

27 OF 30

BILL OF MATERIALS			
CODE	PART	DESCRIPTION	ALLOY/ TEMPER
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E2	GW-5250-206	HORIZONTAL BUTT GLAZED FIN	6063-T6
E3	GW-7000-103	ANTI BUCKLING CLIP	6063-T6
E4	GW-7000-141	MULLION ANCHOR HOOK	6061-T6
E5	GW-7000-142A	MULLION ANCHOR FIST	6061-T6
E6	GW-7000-143	SPLICE	6061-T6
E7	GW-7000-108	FEMALE MULLION BUTT GLAZED	6063-T6
E8	GW-7000-109	MALE MULLION BUTT GLAZED	6063-T6
E9	TGT-215	1-1/2" X 1-1/2" TUBULAR	6063-T6
E10	103-047	JAMB SPACER	6063-T6
E11	GW-7000-155	SILL	6063-T6
E12	GW-7000-154	CHICKEN HEAD	6063-T6
E13	GW-7000-718	TRIM FOR HEAD	6063-T6
E14	GW-7000-717	TRIM FOR SILL	6063-T6
E15	GW-7000-714	HEAVY FEMALE MULLION	6063-T6
E16	GW-7000-715	HEAVY MALE MULLION	6063-T6
E17	GW-7000-716	HEAVY MULLION TRIM	6063-T6
E18	GW-7000-201	TRIM FOR FEMALE MULLION	6063-T6
E19	GW-7000-202	TRIM FOR MALE MULLION	6063-T6
E20	ALU-A-019	ANGLE FOR HEAD	6063-T6
E21	ALU-A-044	ANGLE FOR VERTICAL	6063-T6
E22	T-001	END DAM	6063-T6
E23	GW-7000-139	SLAB ANCHOR	6061-T6
E24	GW-7000-140	SERRATE WASHER	6061-T6

REVISIONS	
NO.	DESCRIPTION
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MCY ENGINEERING, INC.
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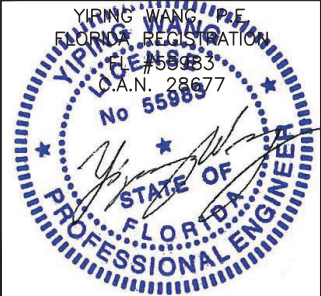


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FLORIDA APPROVAL:
FL#28879.7



YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55989
L.A.N. 28677

March 07th, 2024

BOM

DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

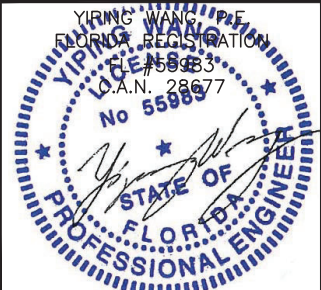
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BILL OF MATERIAL			
COD	PART	DESCRIPTION	MATERIAL
MISCELANEOS			
M1	TOR #14 X 1 1/2" P.H.	FOR FRAME	STAINLESS STEEL
M2	TOR #1/4" – 20 X 1 1/2" F.H.	FOR FRAME REINFORCEMENT	STAINLESS STEEL
M3	TOR #12 X 3/4" P.H.	FOR BACKPAN	STAINLESS STEEL
M4	TOR #12 X 3/4" F.H.	FOR BACKPAN	STAINLESS STEEL
M5	TOR #10–24 X 5/8" F.H.	FOR MULLION	STAINLESS STEEL
M6	TOR #8 x 1/2 F.H.	FOR T–001	STAINLESS STEEL
M7	TOR #12 X 1" P.H. S.M.S. ST/ST	FOR 103–047	STAINLESS STEEL
M8	EMP–658 W5250–NS02	EXTERIOR PRESSURE GASKET	SILICONE
M9	EMP–212 ES–8011A S	HORIZONTAL INTERMEDIATE	SILICONE
M10	065–009E	MULLION AIR BARRIER	EPDM
M11	065–019E	MULLION INTERIOR VERTICAL AIR SEAL	EPDM
M12	WW7000–NE001E	EXPANSION JOINT GASKET	EPDM

BILL OF MATERIAL			
COD	PART	DESCRIPTION	MATERIAL
MISCELANEOS			
M13	EMP–471 ES–7530–B02A S	SIDE BLOCK	EPDM
M14	EMP–628 NP 200–B01A S	SIDE BLOCK	EPDM
M15	BACKER ROD 3/8"	FOR HEIGHT, HEAD AND SILL	POLYETHYLENE
M16	065–012	THERMAL ISOLATER	PVC
M17	GW7000–303	VERTICAL TRIM ADAPTER	PVC
M18	WW7000–NE007	BULB GASKET 3/8" SLIDE ⊗ PVC PART SOLID	SILICONE 65 SHORE A
M19	ES–WW1025T–301	THERMAL ISOLATOR	RIGID PVC BLACK
M20	EMP–484 ES–7530–G10B	BULB GASKET	SILICONE
M21	ES–W625–N01A	1/4" DIA NYLON ROD 24" ⊗ 1/4 PTS NYLON	NYLON
M22	ES–W625–G01A	FOR LONG. CHICKEN HEAD	EPDM
M23	W5250–NE01E	MULLION SEAL GASKET	EPDM
M24	1/2–13 x 1" SOCKET ALLEN	FOR MULLION ANCHOR	STAINLESS STEEL

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29 OF 30	

BILL OF MATERIAL			
COD	PART	DESCRIPTION	MATERIAL
MISCELANEOS			
M25	T-BOND V2204 1/8"x1/2"	DOUBLE SIDE TAPE	POLYURETHANE
M26	T-BOND V2208 1/4"x1/4" x 50" C2S	T-BOND	POLYURETHANE
M27	ST-4 LEFT AND RIGHT	1/2" x 3 13/16" + 5/8" x 1 7/8" STEEL BAR	STEEL
M28	ST-2 LEFT AND RIGHT	1/4" x 3 13/16" + 5/8" x 1 7/8" STEEL BAR	STEEL
M29	1/2 - 13 x 4 F.H.	GRADE 5	STAINLESS STEEL
M30	1/2-13 NUT	FOR VERTICAL CAPTURED REINFORCEMENT	STAINLESS STEEL
M31	WHASHER 1/2"	1/2" INOX.	STAINLESS STEEL
M32	PRESSURE WASHER 1/2"-13	GRADE 5	STAINLESS STEEL
M33	TOR 1/4" - 14 X 3/4" PH SELF DRILLING	FOR ANCHOR HOOK	STAINLESS STEEL
M34	TOR 1/4" - 20 X 2 1/2" HEX HEAD SELF DILL	HEX HEAD SELF DRILLING SCREW	STAINLESS STEEL
M35	CW7000-F01	SPONGE BUFFER	CLOSED CELL NEOPRENE SPONGE
M36	EMP-477 ES-7530-F08	MULLION FOAM 5/8"*1" 7/8"*7"	BLACK CLOSED CELL NEOPRENE SPONGE
M37	1/2"-13 X 1 3/4" HEX CAP GRADE 5 SET	FOR MULLION ANCHOR	STEEL

BILL OF MATERIAL			
COD	PART	DESCRIPTION	MATERIAL
MISCELANEOS			
M38	TOR 1/4" - 14 X 3" F.H. SELF DRILLING	FOR REINFORCEMENT	STAINLESS STEEL
M39	SSG4600	STRUCTURAL SILICONE	SILICONE
M40	SSG4600	SEALING SILICONE	SILICONE
M41	TOR 12" x 1 1/4" PAN SELF DRILLING	FOR UNION	STAINLESS STEEL
M42	TOR 12" x 1 FLAT SELF DRILLING	FOR UNION	STAINLESS STEEL
M43	ELCO 3/4-11X3" TAP FLEX SCREW GRADE 5	INSTALLATION SCREW	STAINLESS STEEL
M44	ES-6025-B01A S	SIDE BLOCK	EPDM
M45	BACKER ROD 5/8"	FOR HEIGHT, HEAD AND SILL	POLYETHYLENE
M46	BACKER ROD 1 1/2"	FOR HEIGHT, HEAD AND SILL	POLYETHYLENE
M47	ST-1 LEFT AND RIGHT	3/4" x 3 13/16" + 5/8" x 1 7/8" STEEL BAR	STEEL
M48	5/16"x1" TEKS SCREW	FOR CLIP	STAINLESS STEEL

FLORIDA APPROVAL:
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YIPING WANG P.E.
FLORIDA REGISTRATION
No 55989

YIPING WANG
L.D.E. #55989
C.A.N. 28677

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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