

ES-VI 50 VINYL FIXED WINDOW - NON-IMPACT.

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION FLORIDA BUILDING CODE (2023), NOT INCLUDE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS RATED FOR NON-IMPACT. IMPACT SHUTTERS ARE REQUIRED WHEN USED IN HVHZ.
- THESE WINDOWS 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 FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.
- WOOD BUCKS AND METAL STRUCTURES NOT BY E.S. WINDOWS 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.
- ALL JOINT AND FRAME CONNECTION 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.

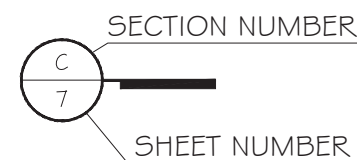
INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.
- STEP 2: SEE SHEET E1 & E2 FOR APPROVED TYPICAL ELEVATION.
- STEP 3: SEE SHEET G1 FOR GLASS TYPES. SEE CHARTS ON SHEET G2 FOR DESIGN LOAD OF GLASS.
- STEP 4: ANCHOR OPTION SEE SHEET D1 & D2. ANCHOR SPACING SEE CHART ON SHEET G2.
- STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

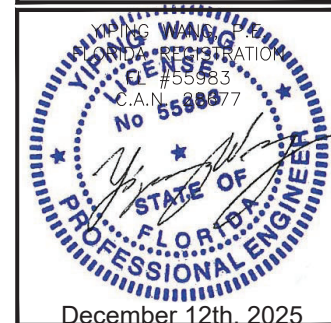
G.B. - GLASS BITE
D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER



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 HEREIN 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.

FL42155.2



ES-V150 Vinyl Fixed Window - NON IMPACT

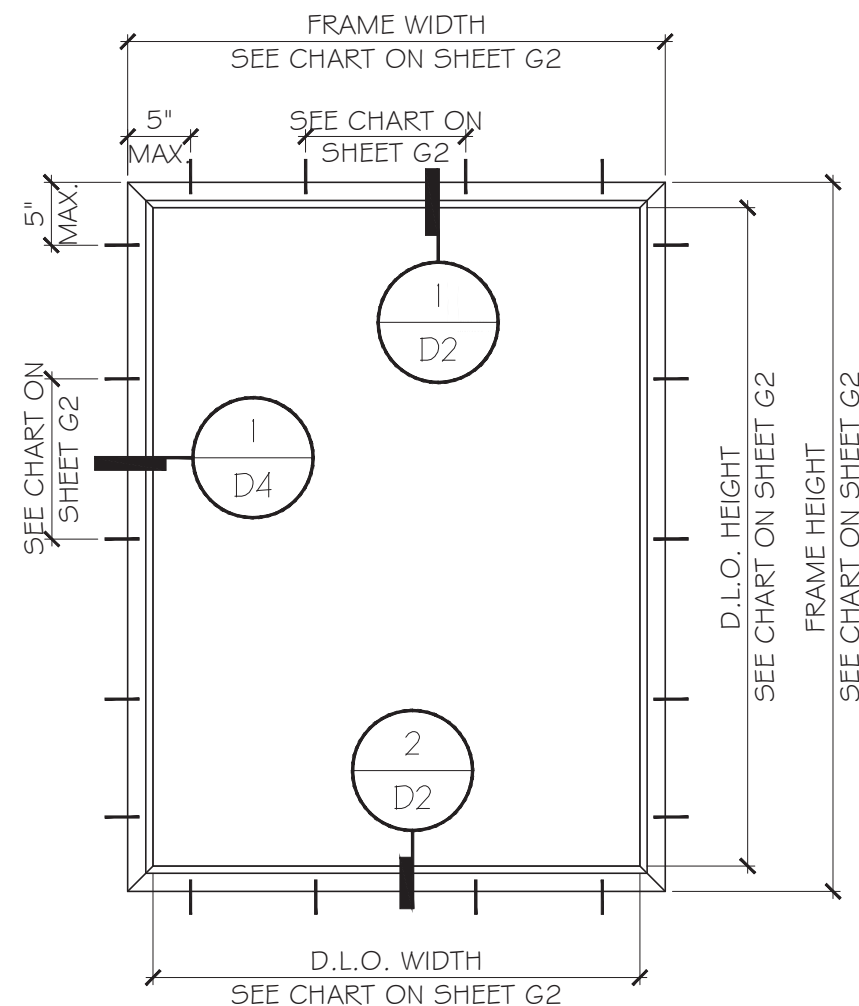
ES WINDOWS, INC.

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Miami, FL 33142

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

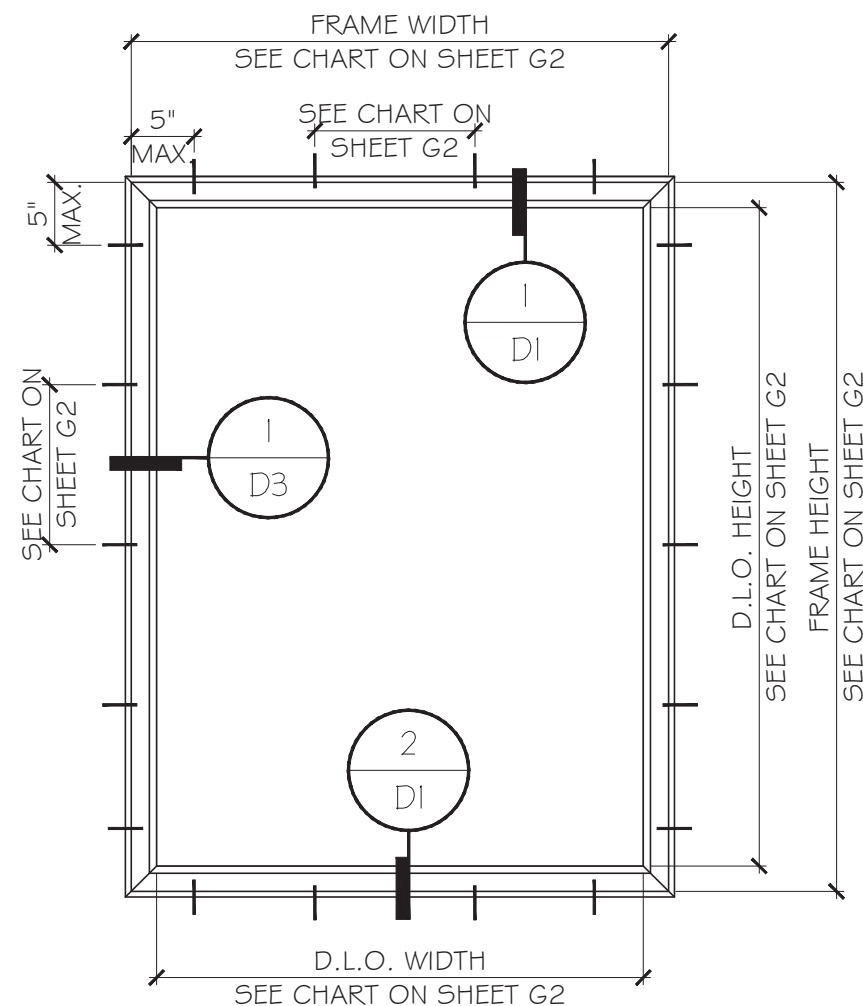
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305.588.5224

www.MCYEngineering.com mcy@mcyengineering.com



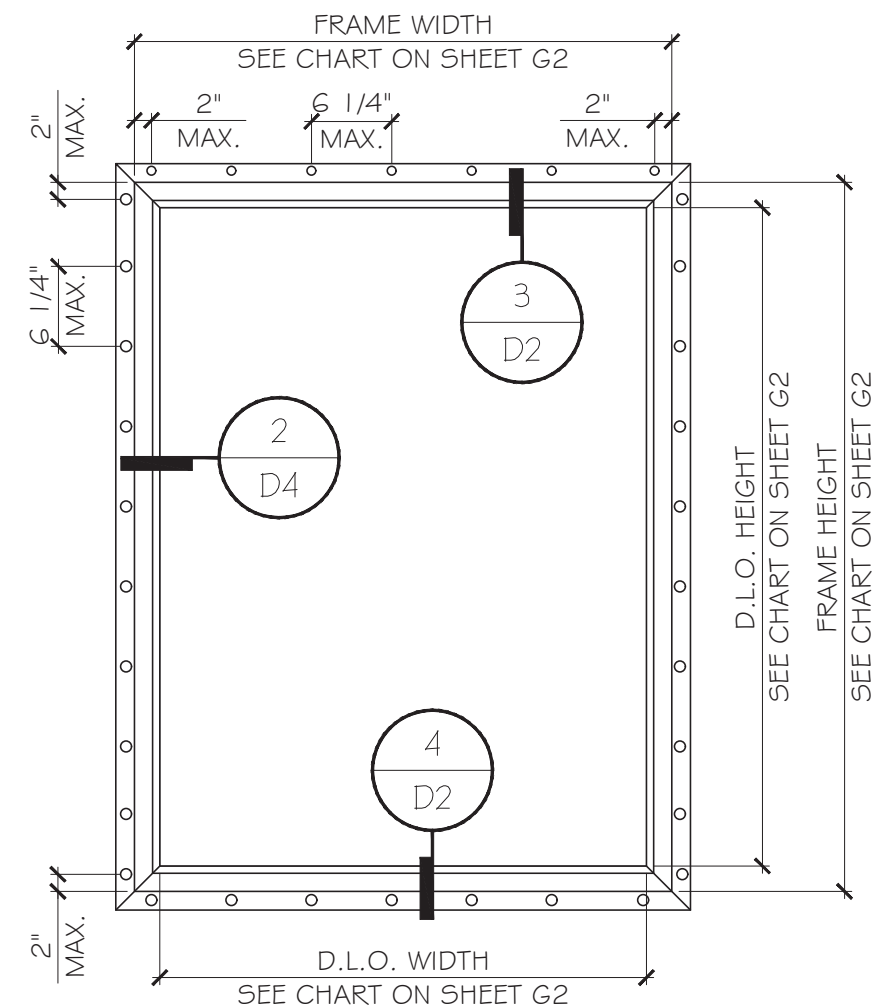
TYPICAL EXTERIOR ELEVATIONS

FLUSH FRAME
SEE SHEET G2 FOR DESIGN LOAD
MAX. AREA LIMITED TO 42 SQ. FT



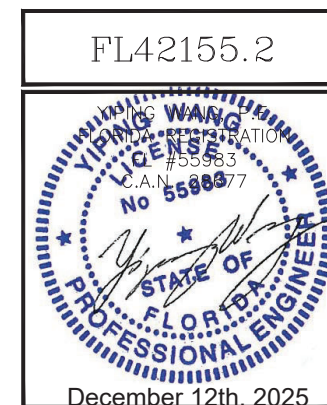
TYPICAL EXTERIOR ELEVATIONS

FLANGE FRAME
SEE SHEET G2 FOR DESIGN LOAD
MAX. AREA LIMITED TO 42 SQ. FT

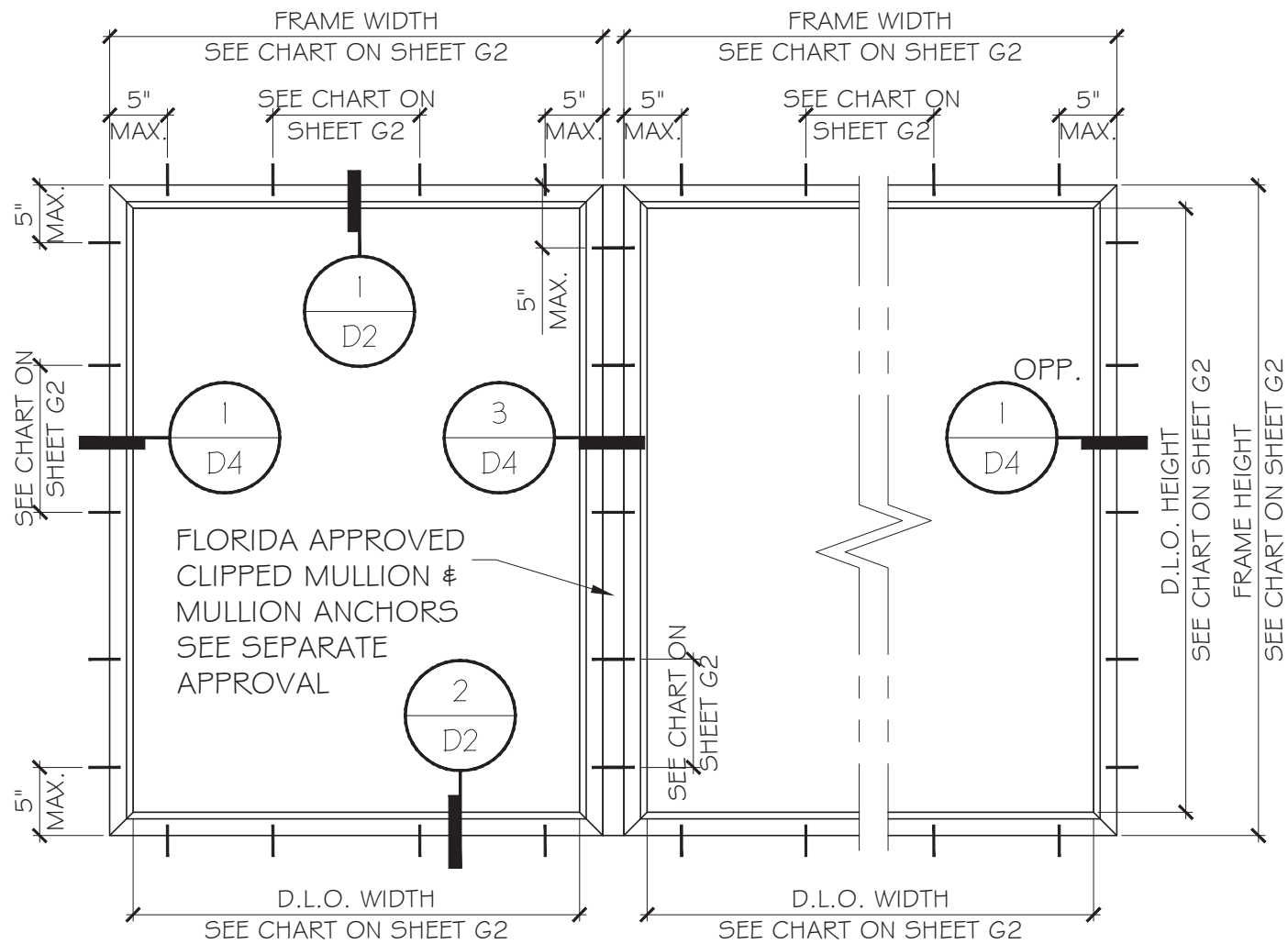


TYPICAL EXTERIOR ELEVATIONS

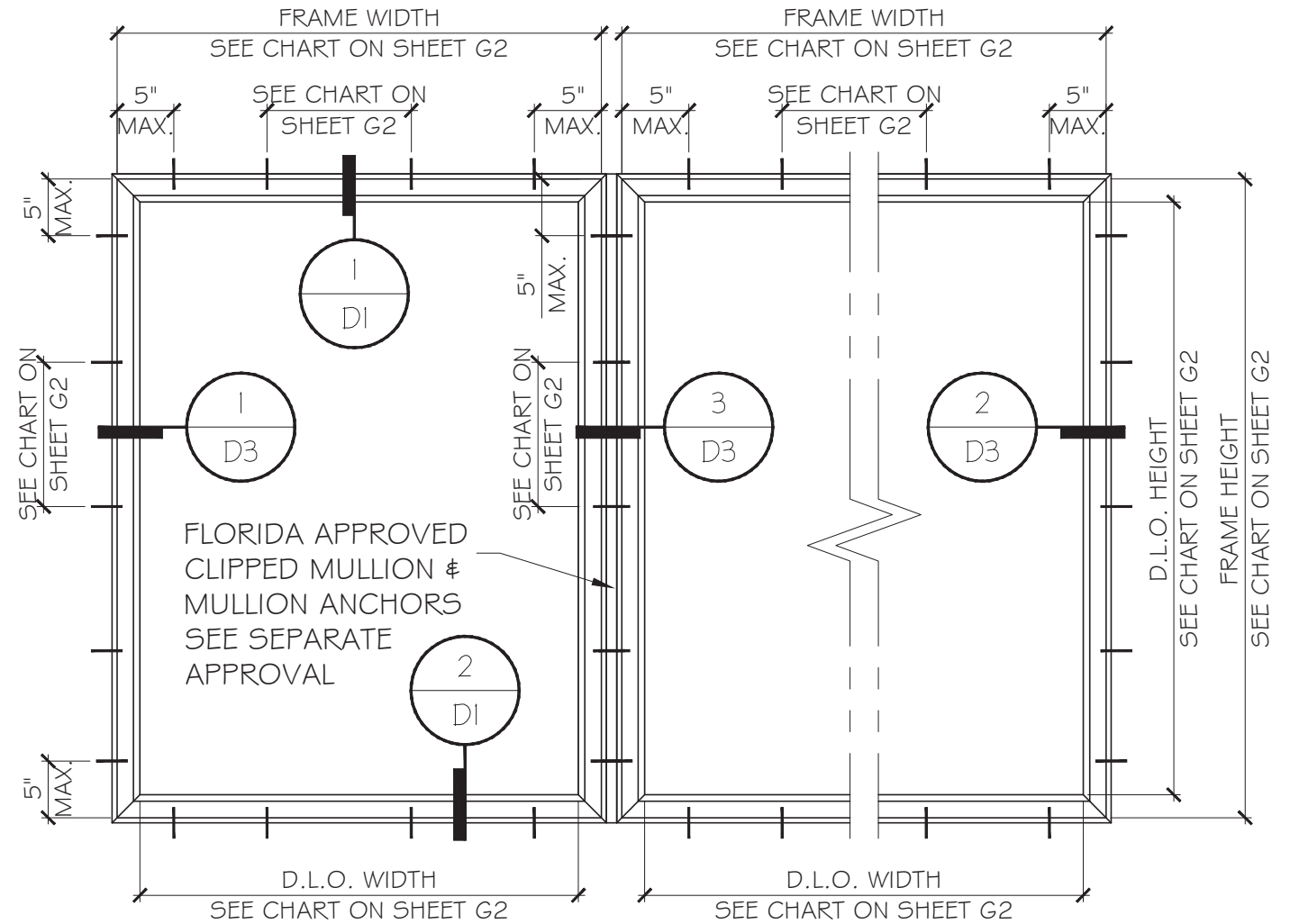
FIN FRAME
SEE SHEET G2 FOR DESIGN LOAD
MAX. AREA LIMITED TO 22.9 SQ. FT



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1	11.21.2025	James	NEW APPLICATION
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TYPICAL EXTERIOR ELEVATIONS
 FLUSH FRAME
 SEE SHEET G2 FOR DESIGN LOAD

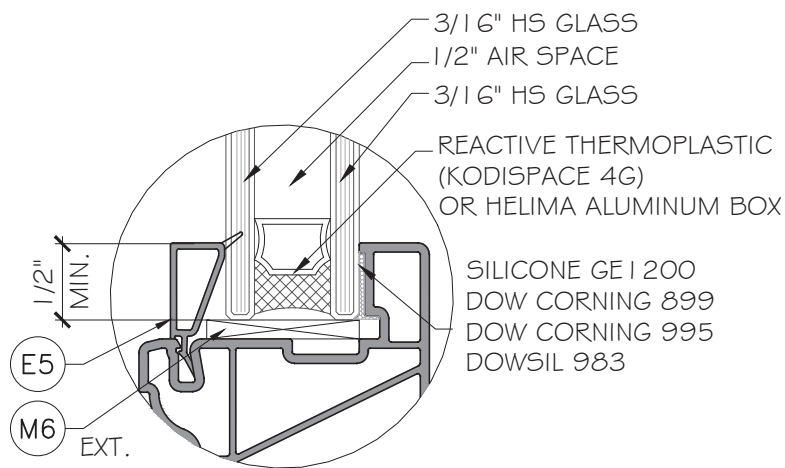


TYPICAL EXTERIOR ELEVATIONS
 FLANGE FRAME
 SEE SHEET G2 FOR DESIGN LOAD

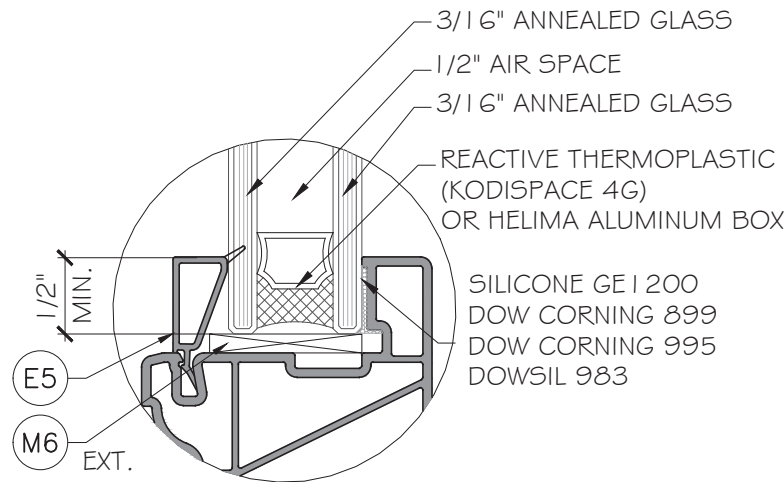
FL42155.2

YIPENG WANG
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 LICENSE NO. 55983
 December 12th, 2025

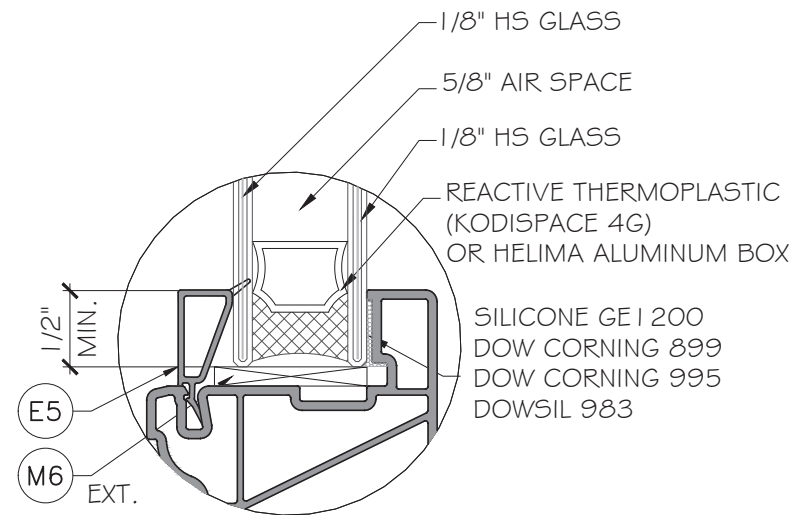
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Drawn Date: 11.21.2025 Scale: AS SHOWN DRAWING NO.: AD25-53 Sheet No.: 03 OF 11			



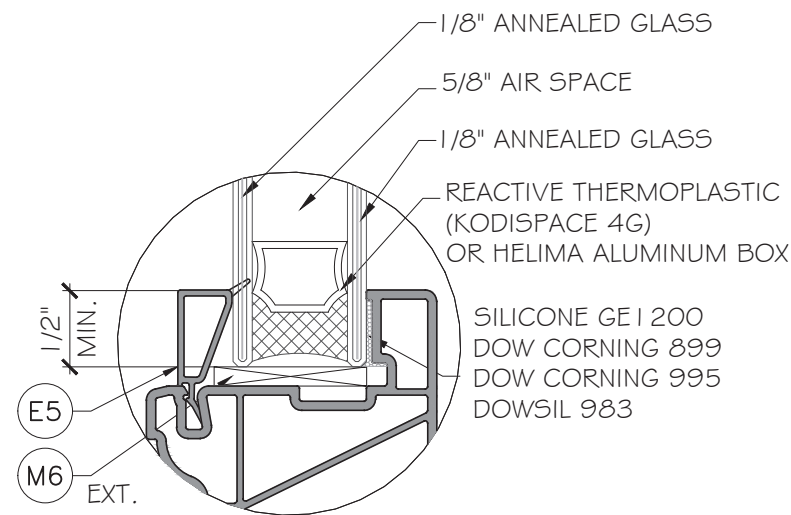
GLASS TYPE 'A'
7/8" NOMINAL OVERALL



GLASS TYPE 'B'
7/8" NOMINAL OVERALL



GLASS TYPE 'C'
7/8" NOMINAL OVERALL

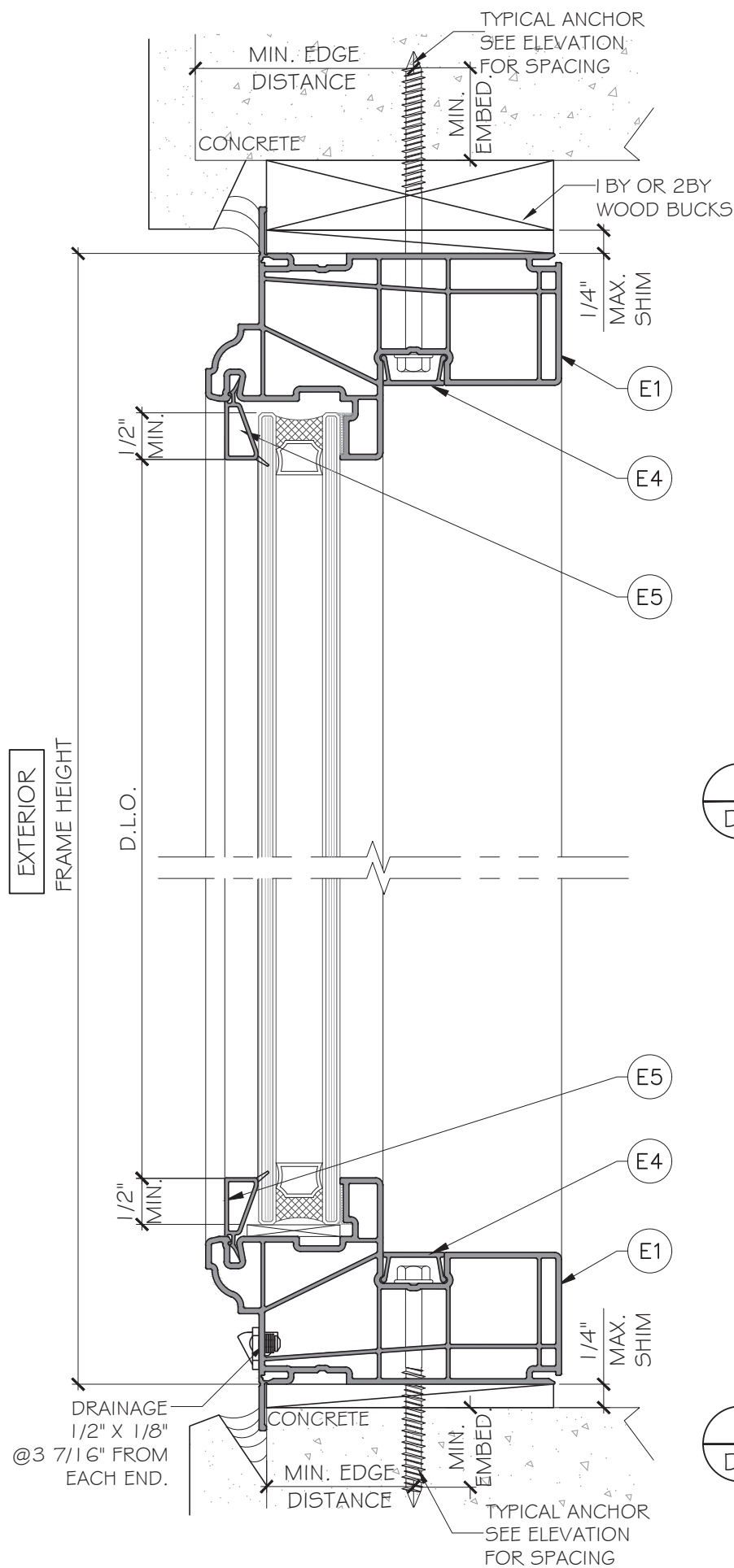


GLASS TYPE 'D'
7/8" NOMINAL OVERALL

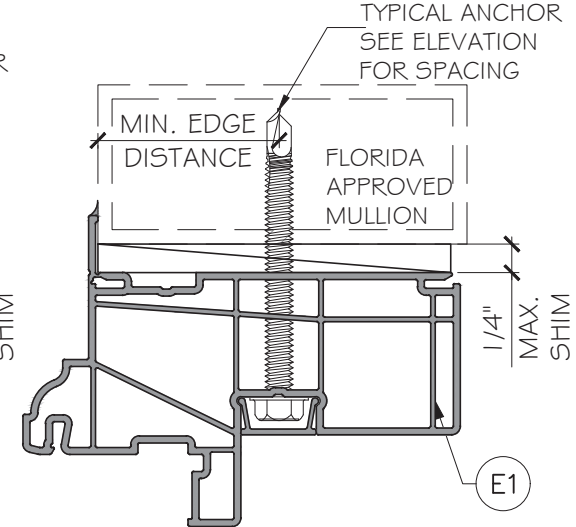
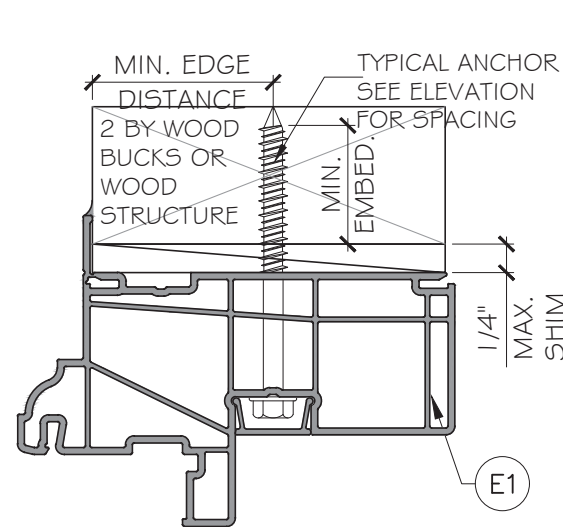
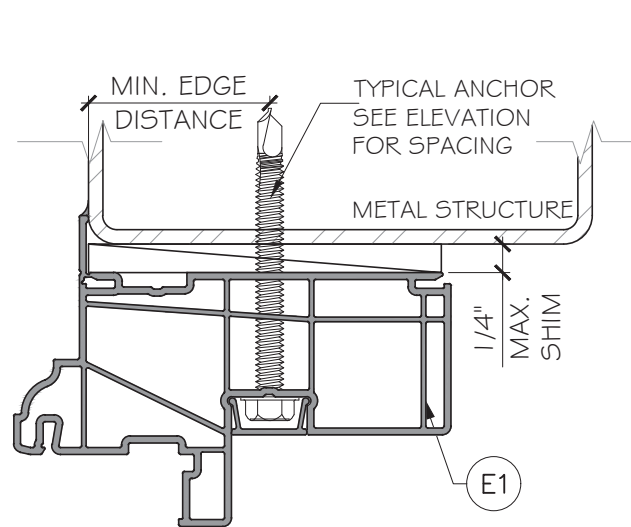
NOTE:
GLASS COMPLIES WITH ASTM E1300-09
(3 SEC. GUSTS).

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Rev. No.	Date	Drawn By	Description
RO 11.21.2025	James		NEW APPLICATION
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G1			
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1
DI
DETAIL



TYPICAL ANCHOR TYPES: (SEE ELEVATIONS FOR SPACING)

TYPE 'A' -- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO 2 BY WOOD BUCKS OR WOOD STRUCTURES.
 1 1/2" MIN. PENETRATION INTO WOOD (HEAD/ JAMBS)

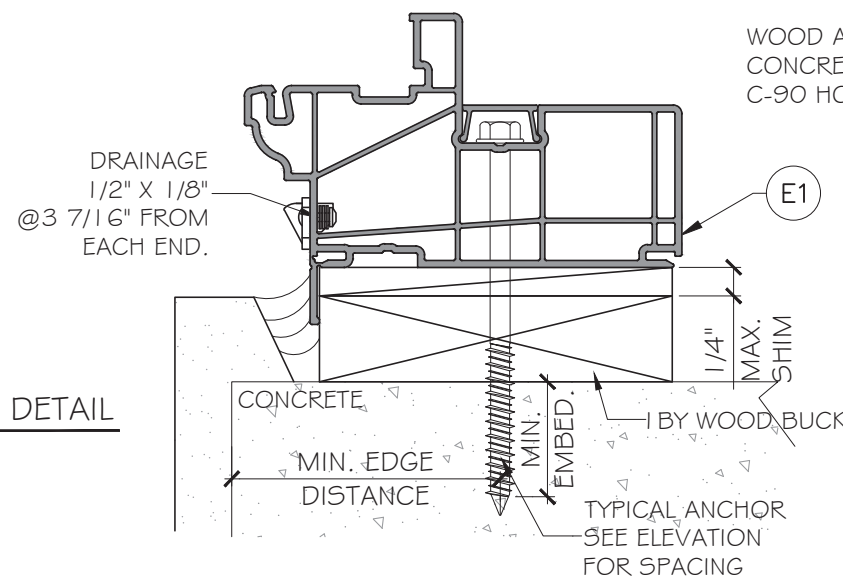
THRU 1 BY BUCKS INTO CONCRETE OR BLOCKS
 1 3/4" MIN. EMBED INTO CONCRETE (HEAD/ SILL/ JAMBS)
 1 3/4" MIN. EMBED IN TO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
 1 3/4" MIN. EMBED IN TO CONCRETE (HEAD/ SILL/ JAMBS)
 1 3/4" MIN. EMBED IN TO BLOCKS (JAMBS)

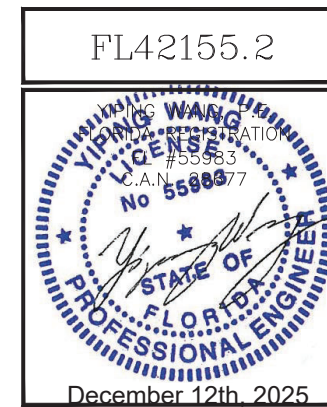
TYPE 'B' -- #14 SMS OR SELF-DRILLING SCREWS: (GRADE 2 CRS)
 INTO FBC APPROVED MULLIONS, 1/8" THK. MIN. (GOG3-T5 MIN.)
 OR INTO METAL STRUCTURES, STEEL: 12GA. MIN. (Fy=36 ksi MIN.)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

INTO CONCRETE = 2-1/2" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.
 INTO WOOD STRUCTURE = 1" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMB f'c=3 ksi MIN.
 C-90 HOLLOW/ FILLED BLOCK AT JAMBS fm=2000 PSI MIN.



2
DI
DETAIL



MCY ENGINEERING, INC.

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 MIRAMAR, FL 33027
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ES-V150 Vinyl Fixed Window - NON IMPACT

ES WINDOWS, INC.

3550 N.W. 49 STREET
 Miami, FL 33142

TEL. (305) 638-5151 EMAIL: ssabagh@energiasolar.com

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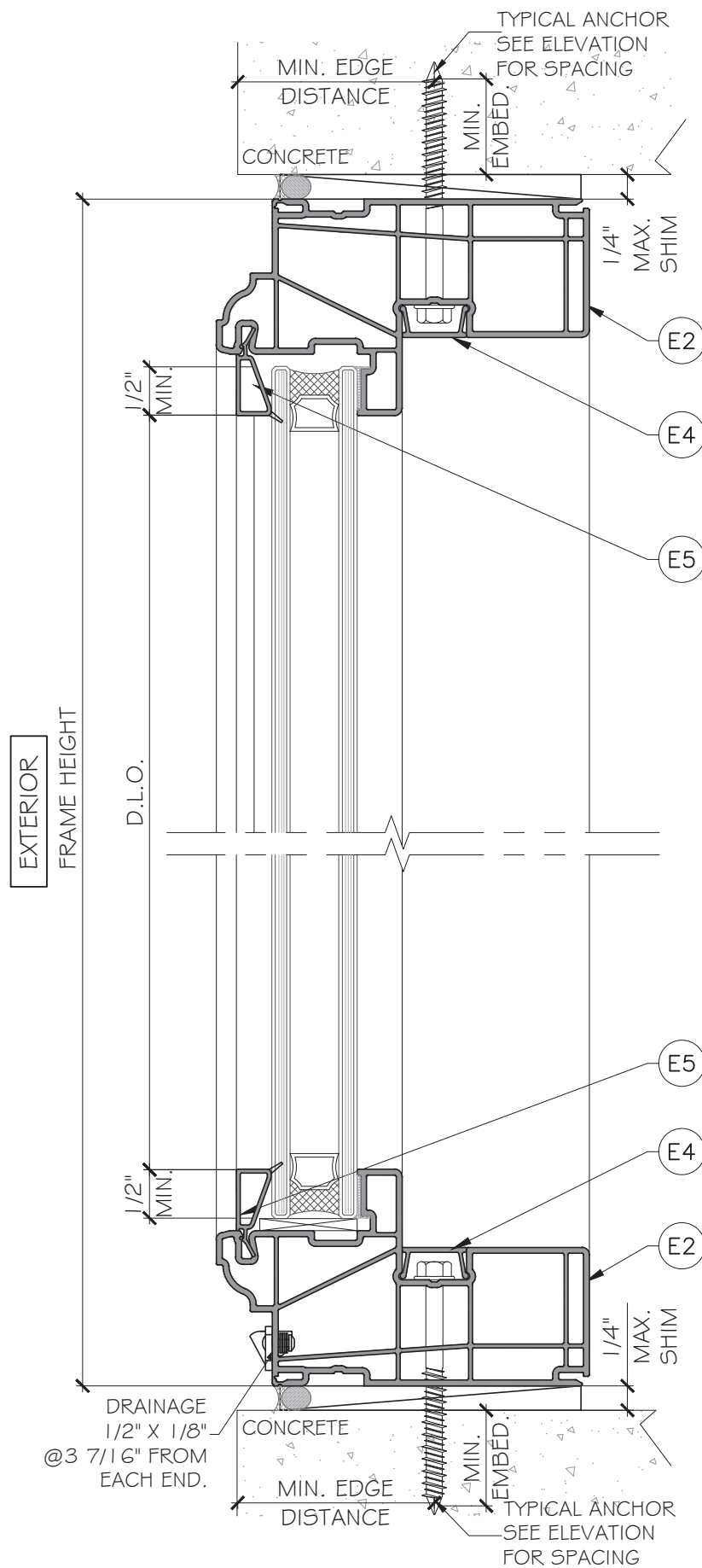
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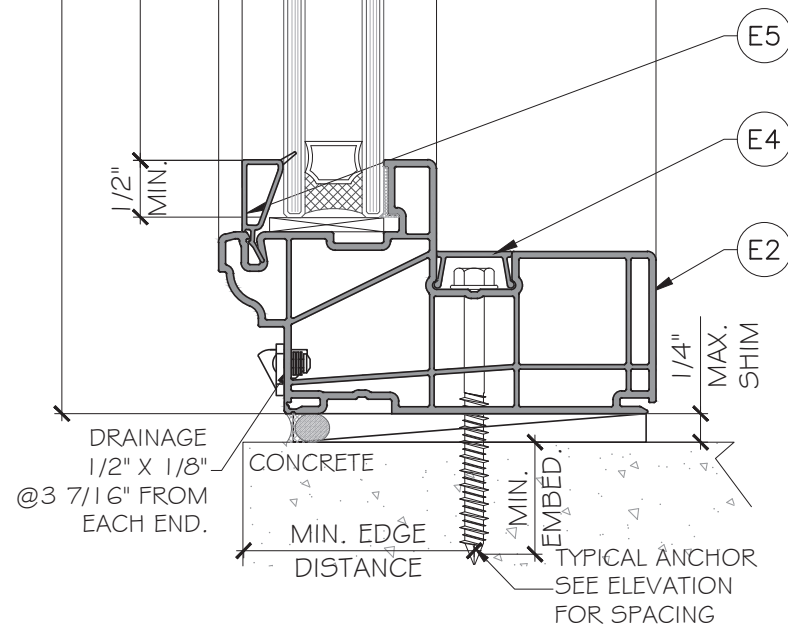
AD25-53

D1

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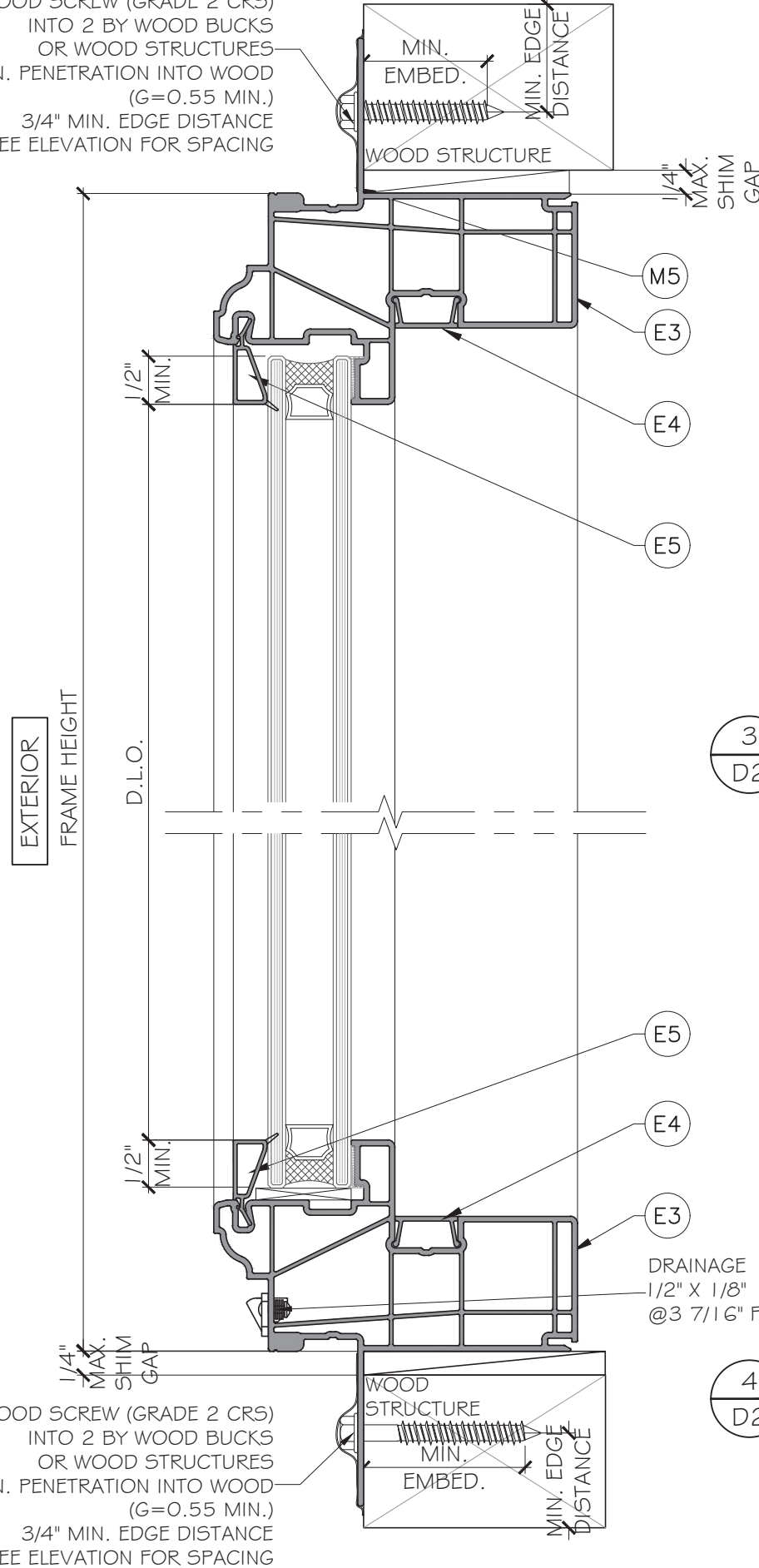


1
D2
DETAIL

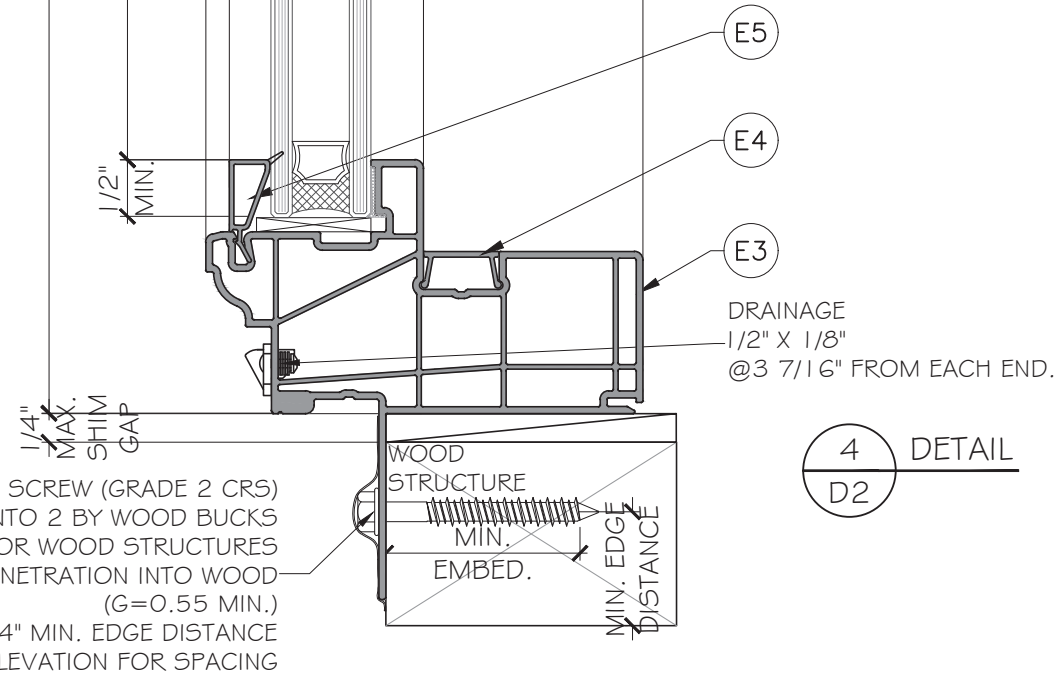


2
D2
DETAIL

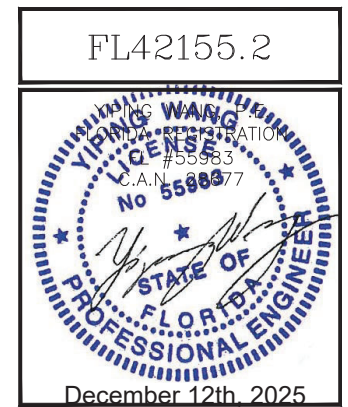
#8 SMS/ WOOD SCREW (GRADE 2 CR5)
 INTO 2 BY WOOD BUCKS
 OR WOOD STRUCTURES
 1 - 1/4" MIN. PENETRATION INTO WOOD
 (G=0.55 MIN.)
 3/4" MIN. EDGE DISTANCE
 SEE ELEVATION FOR SPACING



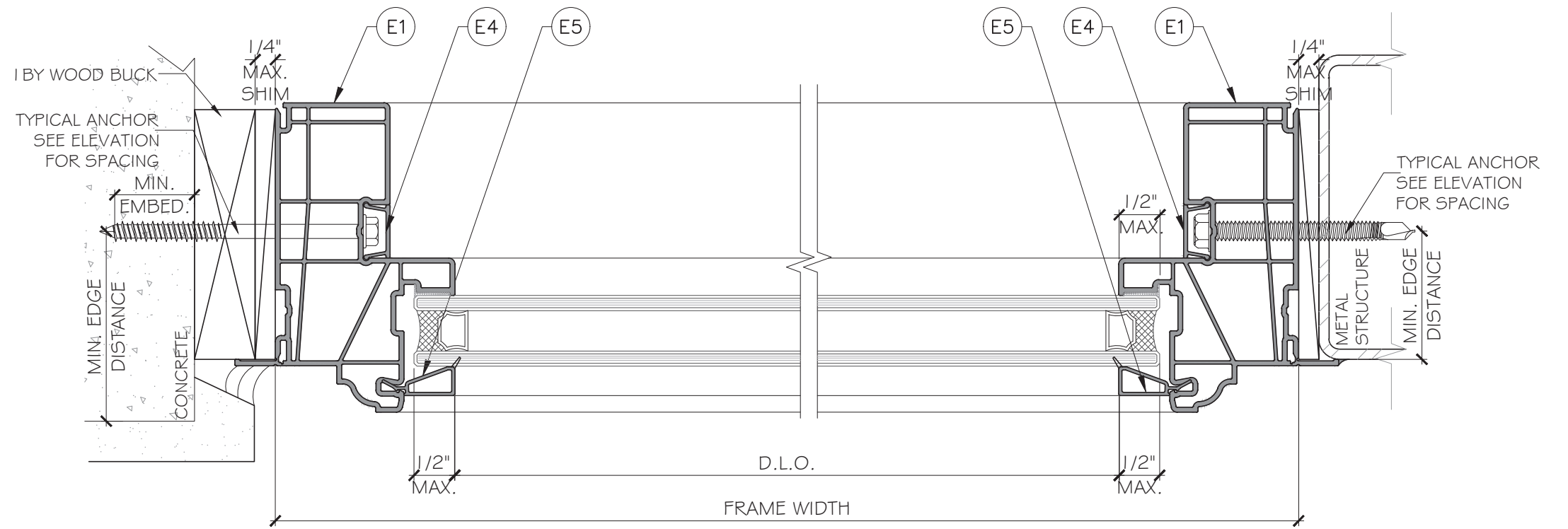
3
D2
DETAIL



4
D2
DETAIL



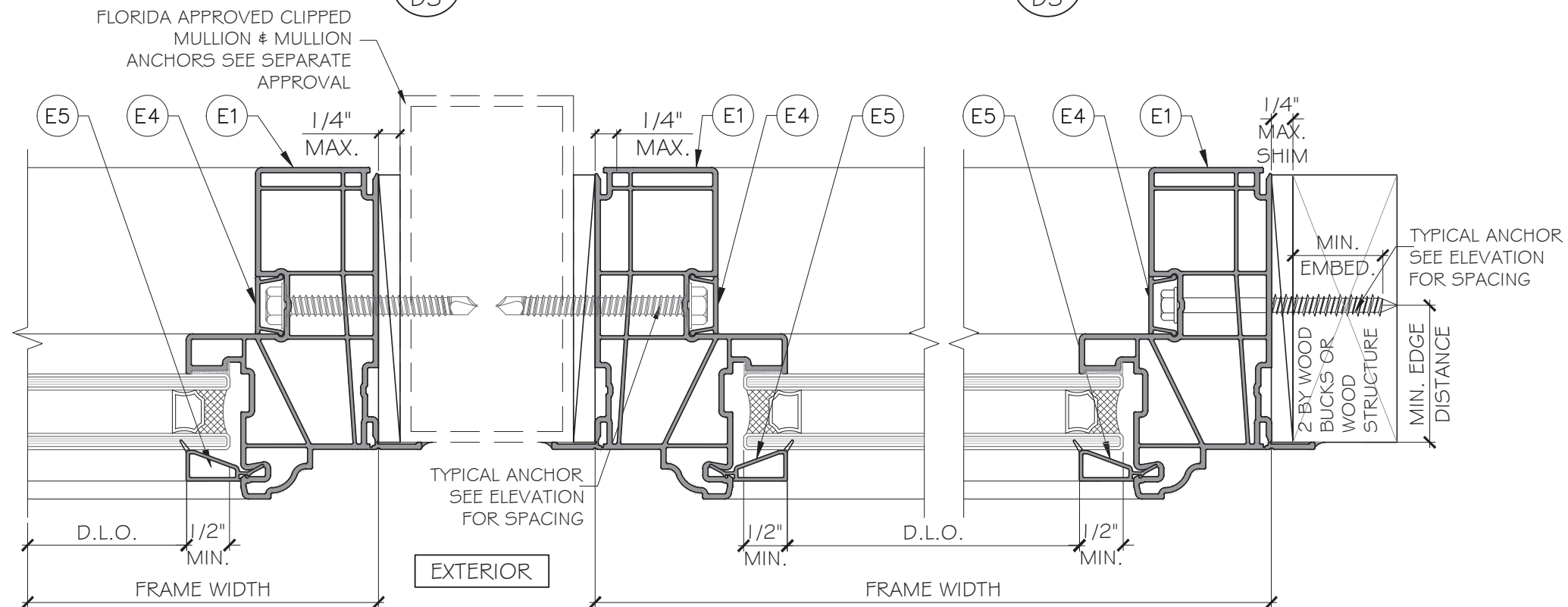
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RO	1	11.21.2025	James	NEW APPLICATION
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1
D3
DETAIL

EXTERIOR

2
D3
DETAIL



3
D3
DETAIL

EXTERIOR

2
D3
DETAIL
OPTION

FL42155.2

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No. 55983
C.A.N. 77

December 12th, 2025

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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Rev. No.	Date	Drawn By	Description
RO 11.21.2025	James	NEW APPLICATION	

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D3

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Rev. No.	Drawn By	Description
RO	11/21/2025	JAMES
		NEW APPLICATION

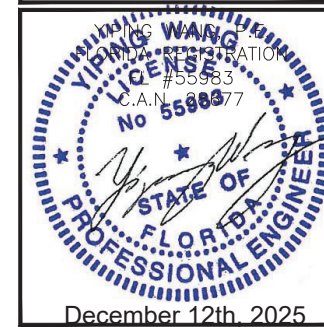
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11.21.2025	AS SHOWN

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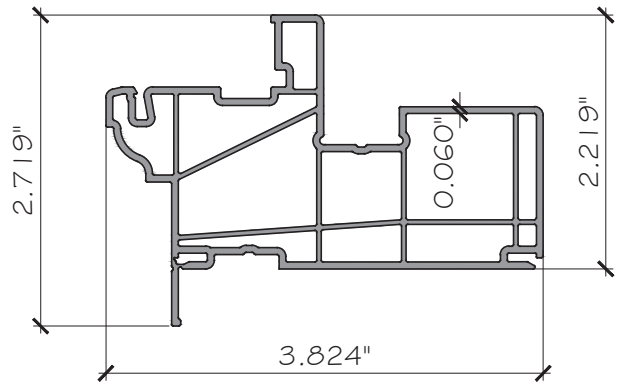
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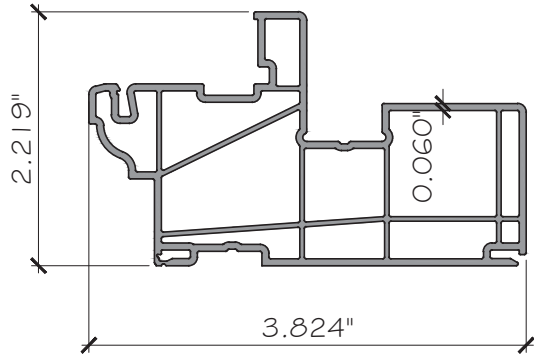
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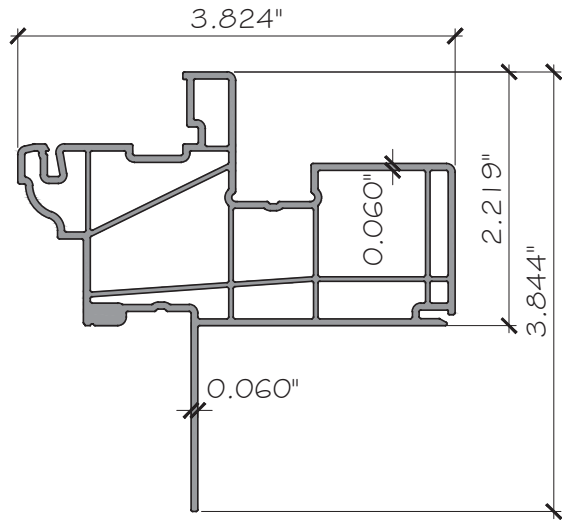
December 12th, 2025



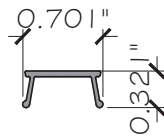
E1 FLANGE FRAME
PVC



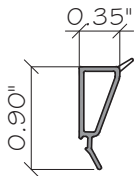
E2 FLUSH FRAME
PVC



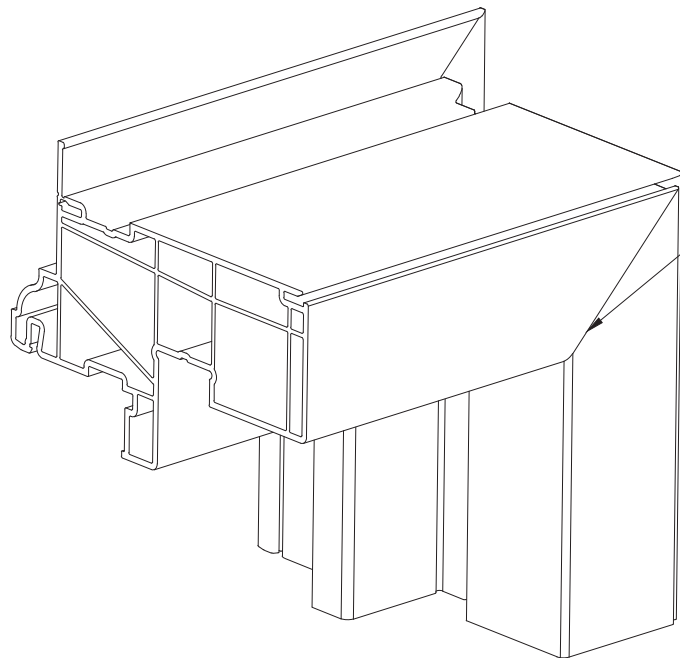
E3 FIN FRAME
PVC



E4 SCREW COVER
PVC

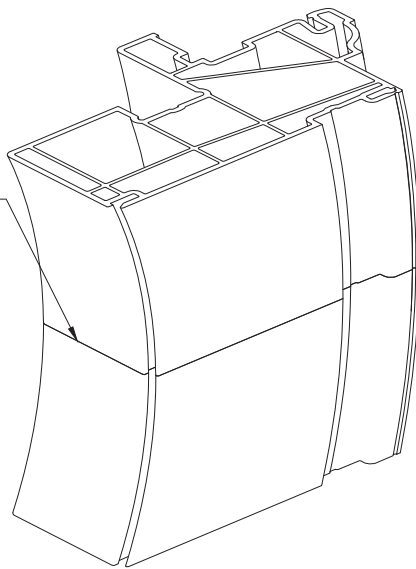


E5 GLAZING BEAD
PVC



RECT. OR SQUARE WINDOWS

MITERED
WELDED
CORNERS



CIRCULAR WINDOWS

FRAME CORNER
FLANGE FRAME SHOWN
FLUSH & FIN FRAMES SIMILAR

FL42155.2

YIPING WANG
PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE NO. 55983
REGISTRATION NO. 5598377

December 12th, 2025

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Drawn Date
11.21.2025

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PARTS

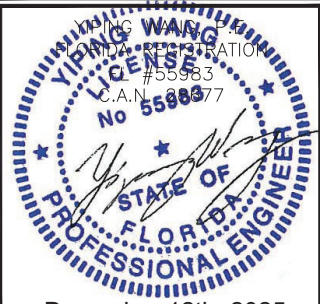
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[illegible]

E1	ES-1000	EQUAL LEG FRAME	PVC	DECEUNINCK NORTH AMERICA, LLC	-
E2	ES-1013	FLANGE FRAME	PVC	DECEUNINCK NORTH AMERICA, LLC	-
E3	ES-1018	FIN FRAME	PVC	DECEUNINCK NORTH AMERICA, LLC	-
E4	ES-1003	SCREW COVER	PVC	DECEUNINCK NORTH AMERICA, LLC	-
E5	10005457	IG GLAZING BEAD	PVC	DECEUNINCK NORTH AMERICA, LLC	-
M1	SCS 1200	GLAZING SILICONE (1/2" X 3/16" BEAD)	SILICONE	GENERAL ELECTRIC	-
M2	DOW 995	GLAZING SILICONE (1/2" X 3/16" BEAD)	SILICONE	DOW CORNING	-
M3	DOW 899	GLAZING SILICONE (1/2" X 3/16" BEAD)	SILICONE	DOW CORNING	-
M5	-	PROTECTO WRAP® WATERPROOFING OR EQUIV	-	-	AT FIN FRAME
M6	ES-U7530-B01A S	SETTING BLOCK, 2 PER LITE	SILICONE	-	DUROMETER 85±5
M7	DOWSIL 983	GLAZING SILICONE	SILICONE	DOWSIL	-
M8	146 SERIES (255129)	WEEP COVER	NYLON	-	-

WHITE PVC EXTRUSIONS TO BE LABELED WITH AAMA EXTRUDER CODE, EXTRUDER NAME, CITY STATE AND 'MDCA'

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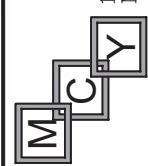
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