

ES-WINDOWS
ES-P300 CASEMENT WINDOW - L.M.I & S.M.

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION OF FLORIDA BUILDING CODE 2023/9TH EDITION OF FLORIDA BUILDING CODE 2026 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS ARE RATED FOR LARGE AND SMALL MISSILE IMPACT. LMI SYSTEM IS REQUIRED FOR INSTALLATIONS UP TO 30FT OF GRADE. SMI SYSTEM IS REQUIRED FOR INSTALLATION ABOVE 30FT OF GRADE. IMPACT SHUTTERS ARE NOT REQUIRED.
- 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 OF FLORIDA BUILDING CODE 2023/9TH EDITION OF FLORIDA BUILDING CODE 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 FASTENERS SEALED WITH SILICONE SEALANT.
- HARDWARE CHECKED FOR WIND LOAD IN CLOSED POSITION ONLY; OPERATION PER MANUFACTURER'S INSTRUCTIONS. WINDOWS MUST BE CLOSED AND SECURED WHEN A HURRICANE WARNING IS ISSUED.

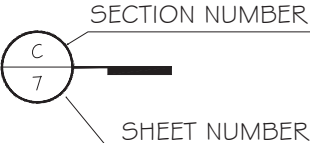
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.
- FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, 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.

- 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 FOR APPROVED TYPICAL ELEVATION & DESIGN LOAD. SEE SHEET G1 & G2 FOR GLASS OPTION.
- STEP 3: ANCHOR OPTION SEE SHEET A1 TO A7. ANCHOR SPACING SEE SHEET C1 TO C2.
- 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

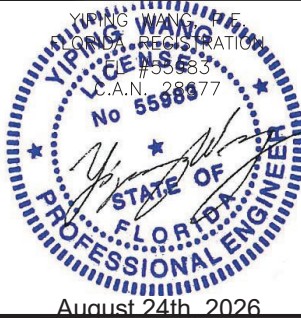


LIMITATIONS OF US

- 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 THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- C- THIS PRODUCT EVALUATION DOCUMENT WHEN 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

FL40521.



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Drawing Date
08.24.2026

Scale

DRAWING NO.

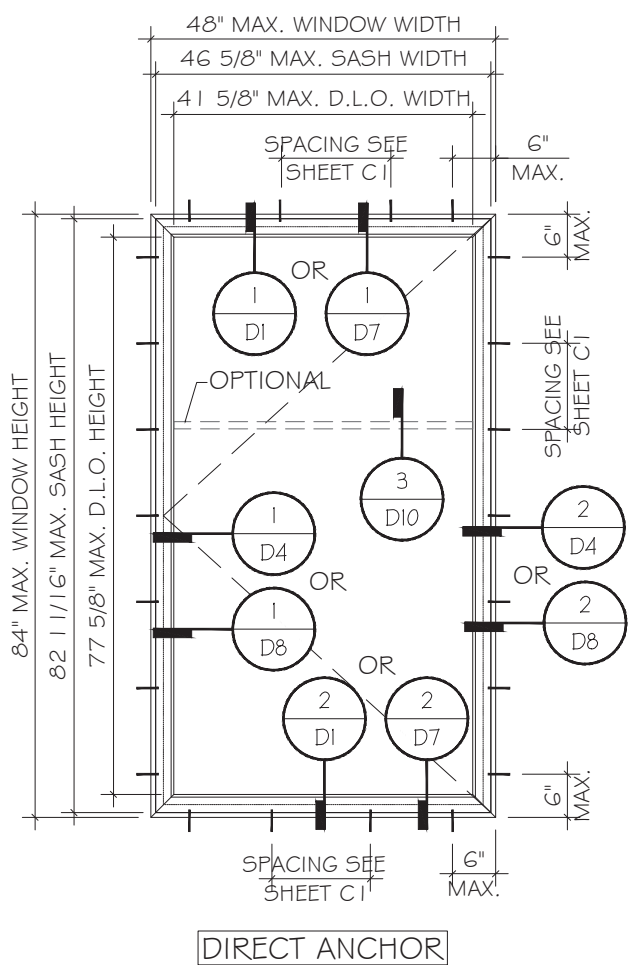
AD21-51

COVER

Sheet No.

1 OF 27

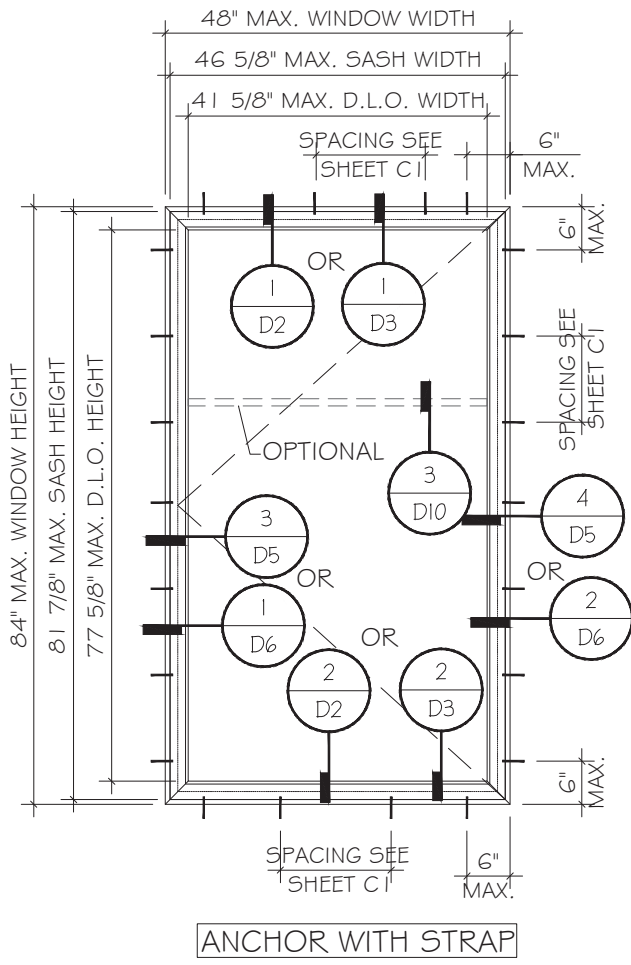
GLASS TYPES FOR LMI SEE SHEET G1.
GLASS TYPES FOR SMI SEE SHEET G2.



DIRECT ANCHOR

TYPICAL WINDOW ELEVATIONS

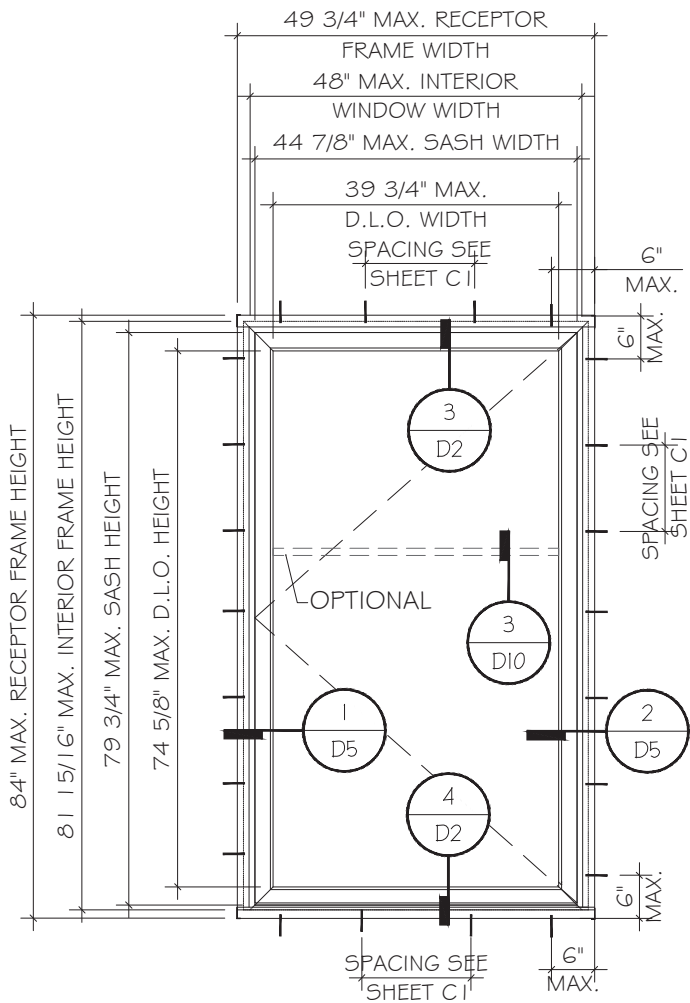
SEE SHEET A1 FOR ANCHOR TYPES.
SEE CHART 1 ON SHEET C1 FOR ANCHOR SPACING.
MAX. ALLOWABLE LOAD: +80/-90 PSF.



ANCHOR WITH STRAP

TYPICAL WINDOW ELEVATIONS

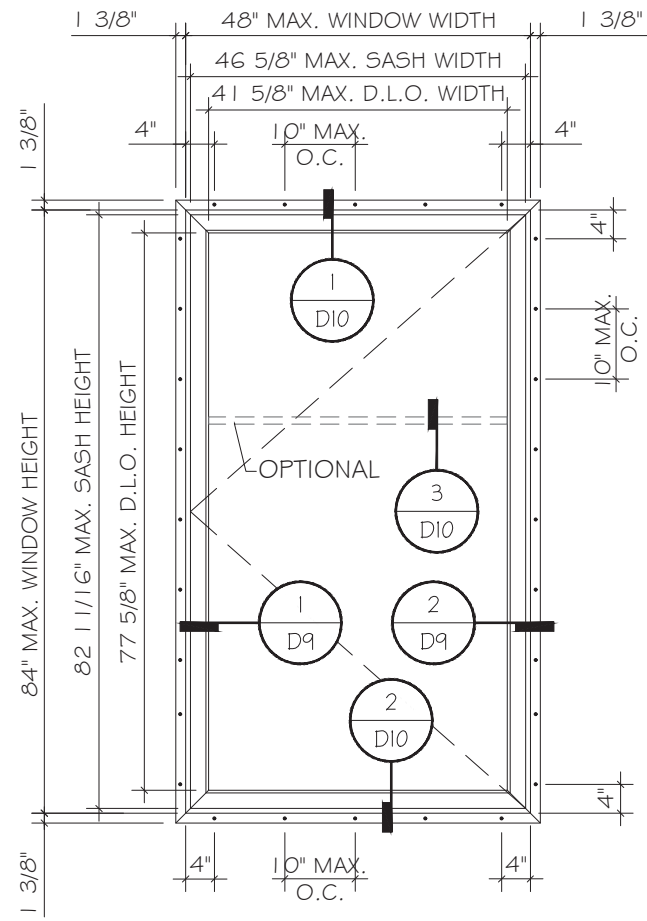
SEE SHEET A2 FOR ANCHOR TYPES.
SEE CHART 2 ON SHEET C1 FOR ANCHOR SPACING.
MAX. ALLOWABLE LOAD: +80/-90 PSF.
FOR ALL GLASS TYPES.



ANCHOR WITH RECEPTOR

TYPICAL WINDOW ELEVATIONS

SEE SHEET A3 FOR ANCHOR TYPES.
SEE CHART 3 ON SHEET C1 FOR ANCHOR SPACING.
MAX. ALLOWABLE LOAD: +80/-90 PSF.
FOR ALL GLASS TYPES.



NAIL FIN WINDOW

TYPICAL WINDOW ELEVATIONS

SEE SHEET A4 FOR ANCHOR TYPES.
MAX. ALLOWABLE LOAD: +80/-90 PSF.
FOR ALL GLASS TYPES.

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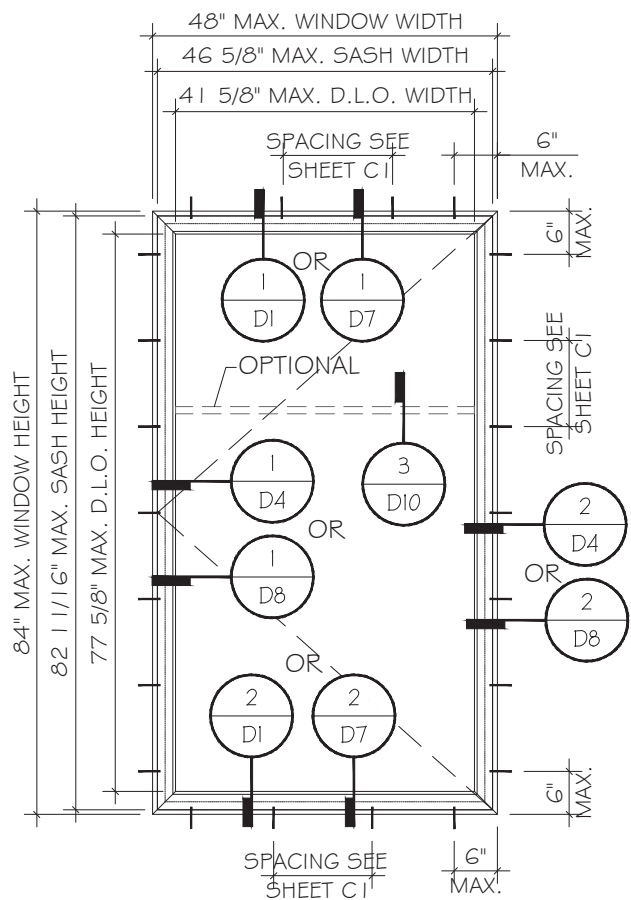
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Rev. No.	Date	Drawn By	Description
R7	08.24.2026	JAMES	REVISION
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DRAWING NO. AD21-51			
E1			
Sheet No. 2 OF 27			

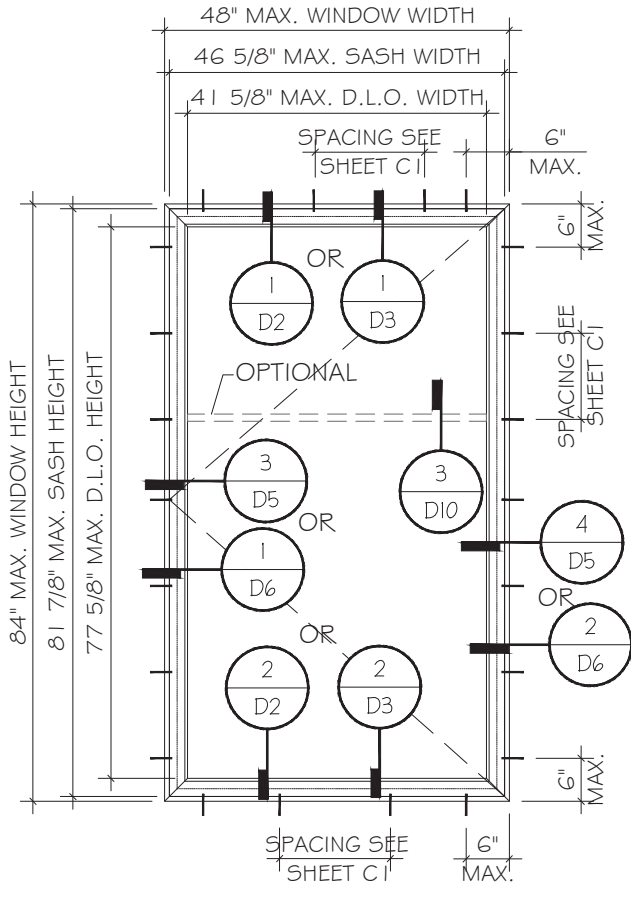
GLASS TYPES FOR LMI SEE SHEET G1.
GLASS TYPES FOR SMI SEE SHEET G2.



DIRECT ANCHOR

TYPICAL WINDOW ELEVATIONS

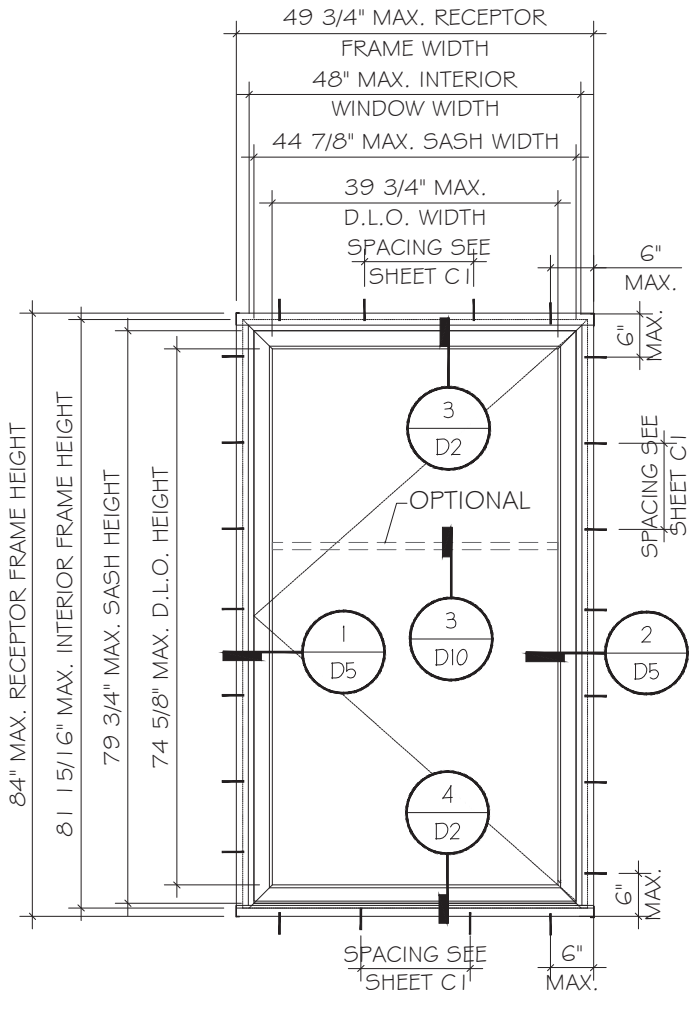
SEE SHEET A5 FOR ANCHOR TYPES.
SEE CHART 4 ON SHEET C2 FOR ANCHOR SPACING.
MAX. ALLOWABLE LOAD: +95/-105 PSF.



ANCHOR WITH STRAP

TYPICAL WINDOW ELEVATIONS

SEE SHEET A6 FOR ANCHOR TYPES.
SEE CHART 5 ON SHEET C2 FOR ANCHOR SPACING.
MAX. ALLOWABLE LOAD: +95/-105 PSF.

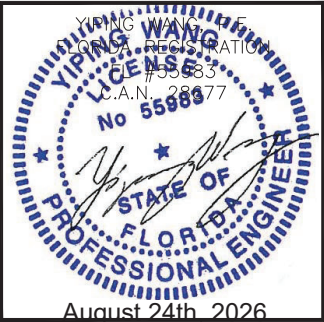


ANCHOR WITH RECEPTOR

TYPICAL WINDOW ELEVATIONS

SEE SHEET A7 FOR ANCHOR TYPES.
SEE CHART 6 ON SHEET C2 FOR ANCHOR SPACING.
MAX. ALLOWABLE LOAD: +95/-105 PSF.

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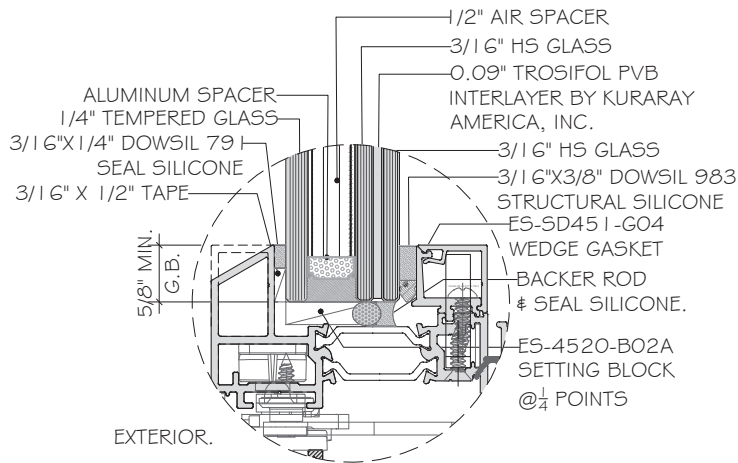
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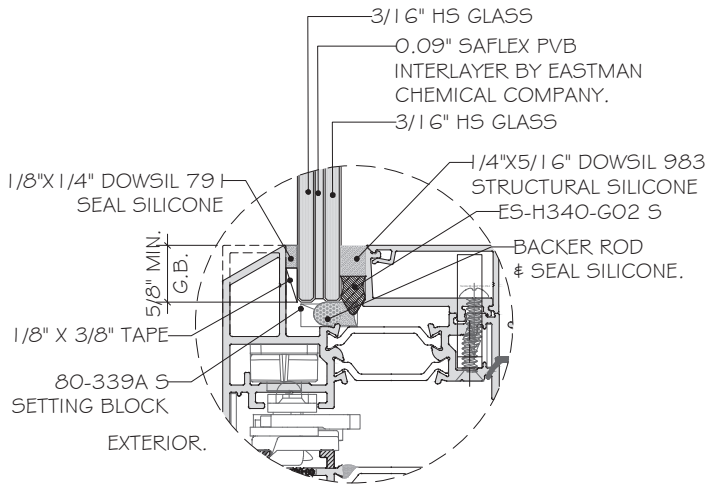
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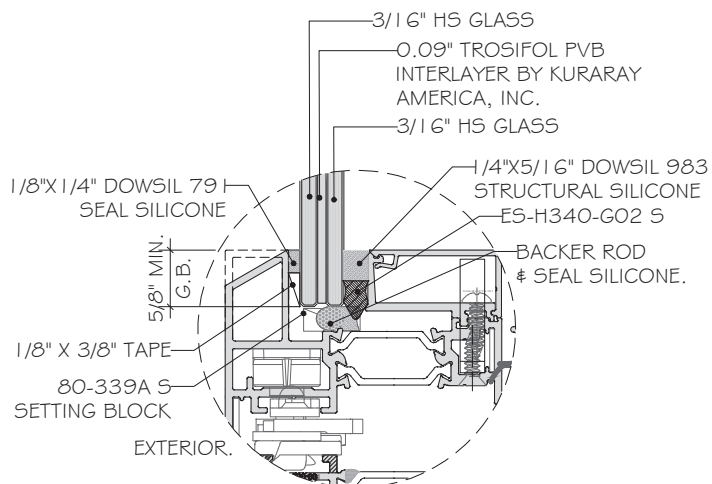
GLASS TYPES FOR LARGE MISSILE IMPACT



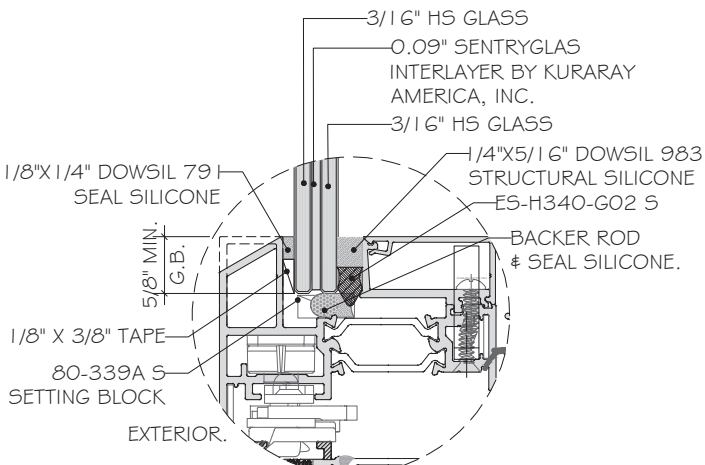
GLASS TYPE "G1" FOR LMI
1 3/16" INSULATED LAMINATED GLASS
LAMINATED ON INTERIOR SIDE



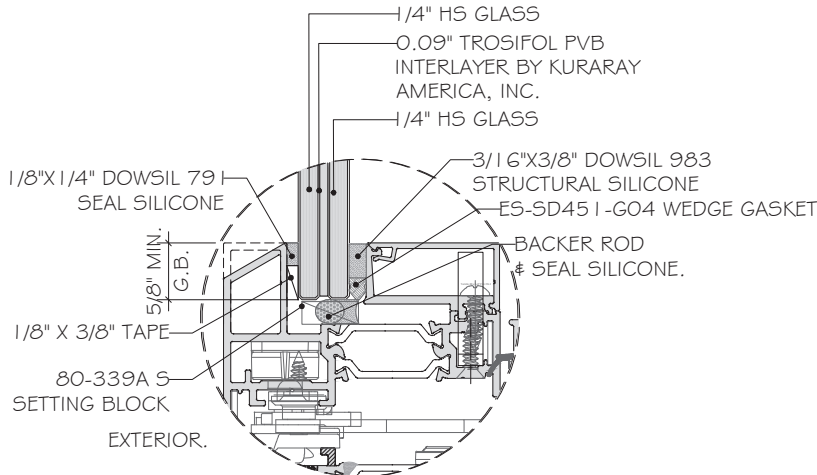
GLASS TYPE "G3" FOR LMI
7/16" LAMINATED GLASS



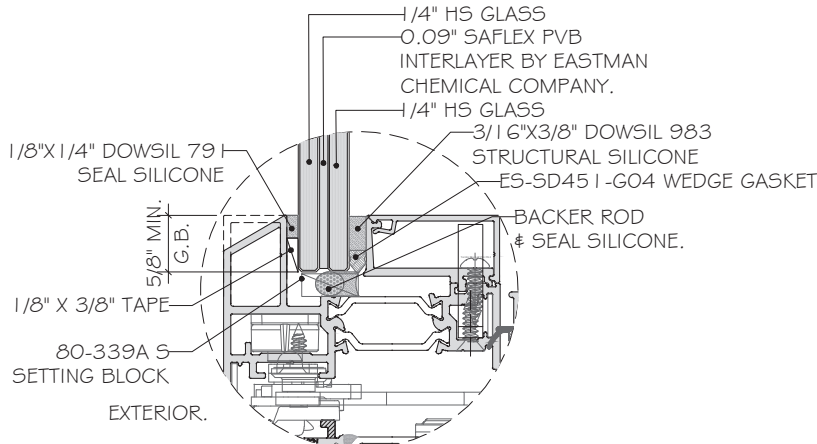
GLASS TYPE "G4" FOR LMI
7/16" LAMINATED GLASS



GLASS TYPE "G5" FOR LMI
7/16" LAMINATED GLASS

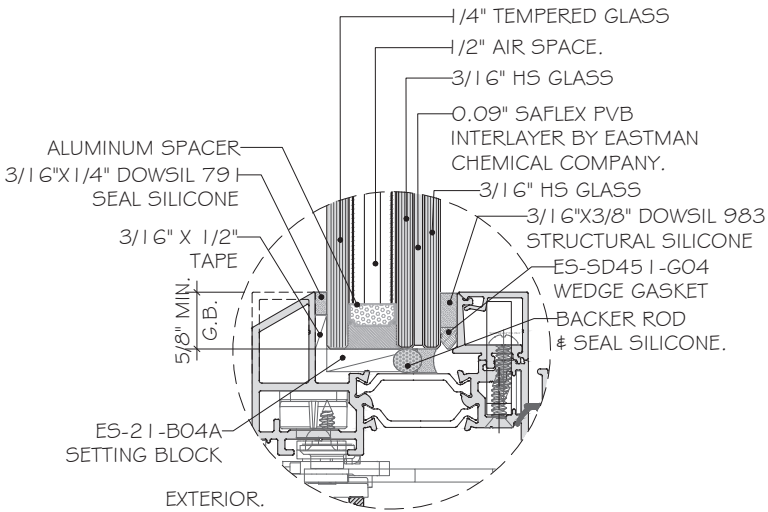


GLASS TYPE "G6" FOR LMI
9/16" LAMINATED GLASS



GLASS TYPE "G7" FOR LMI
9/16" LAMINATED GLASS

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



GLASS TYPE "G8" FOR LMI
1 3/16" INSULATED LAMINATED GLASS
LAMINATED ON INTERIOR SIDE

FLORIDA APPROVAL:
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YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No 55983
C.A.N. 28477
August 24th, 2026

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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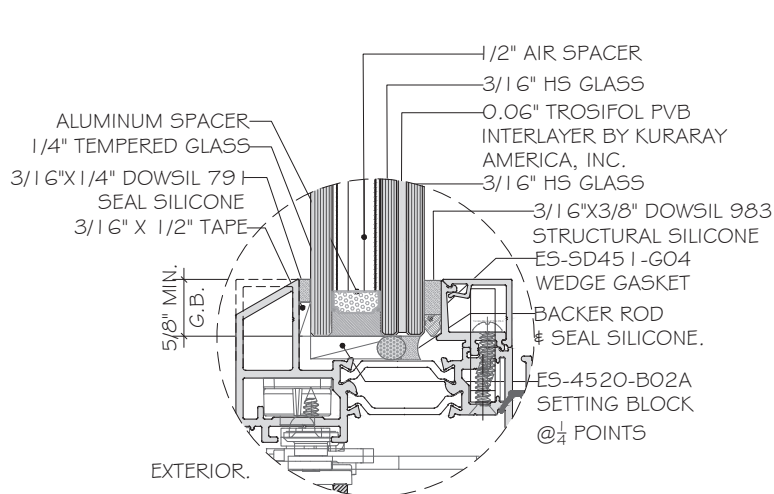
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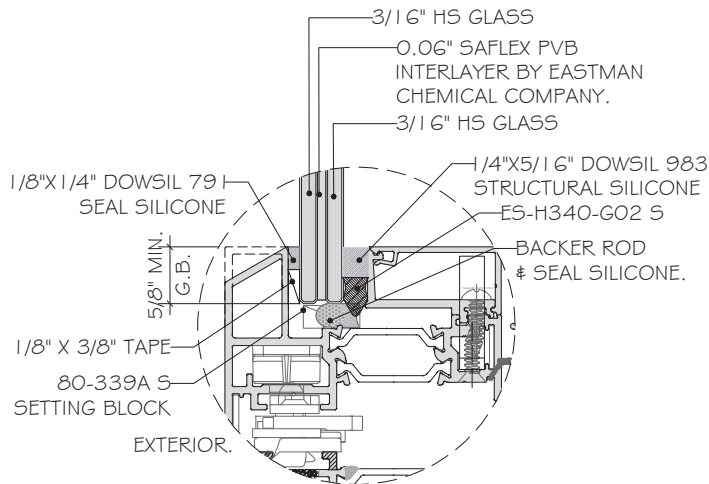
G1

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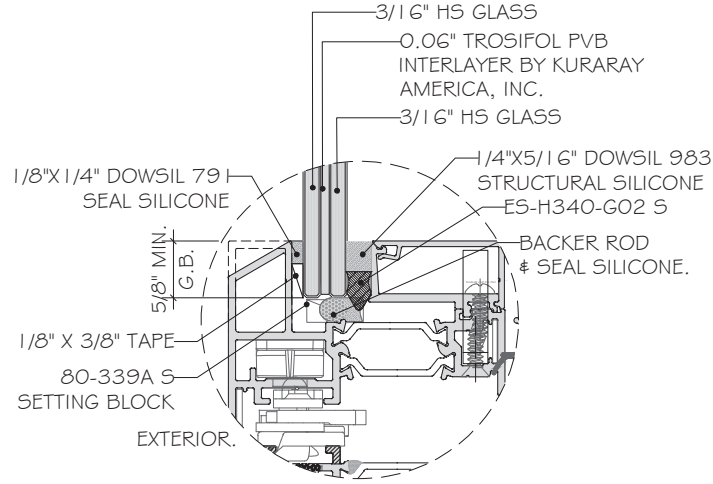
GLASS TYPES FOR SMALL MISSILE IMPACT



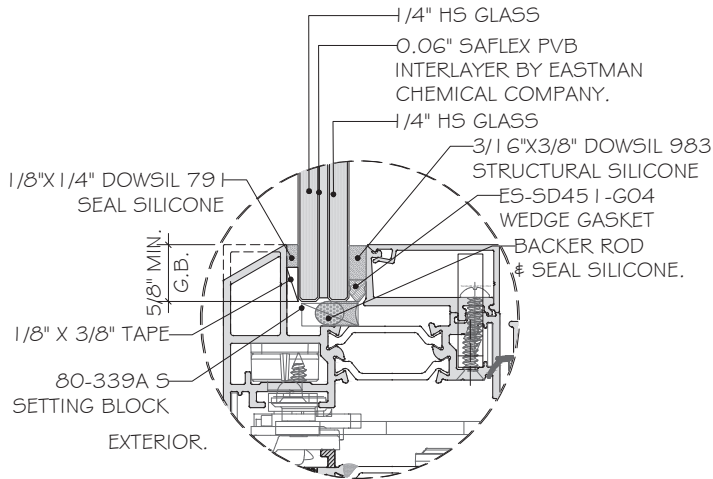
GLASS TYPE "G2" FOR SMI
1 3/16" INSULATED LAMINATED GLASS
LAMINATED ON INTERIOR SIDE



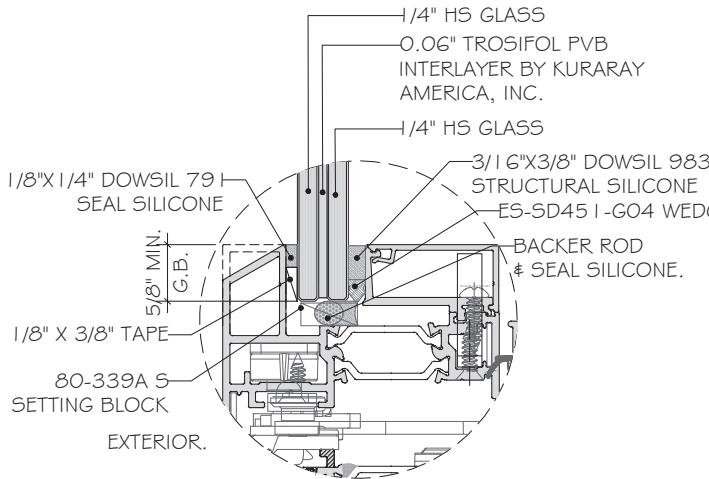
GLASS TYPE "G9" FOR SMI
7/16" LAMINATED GLASS



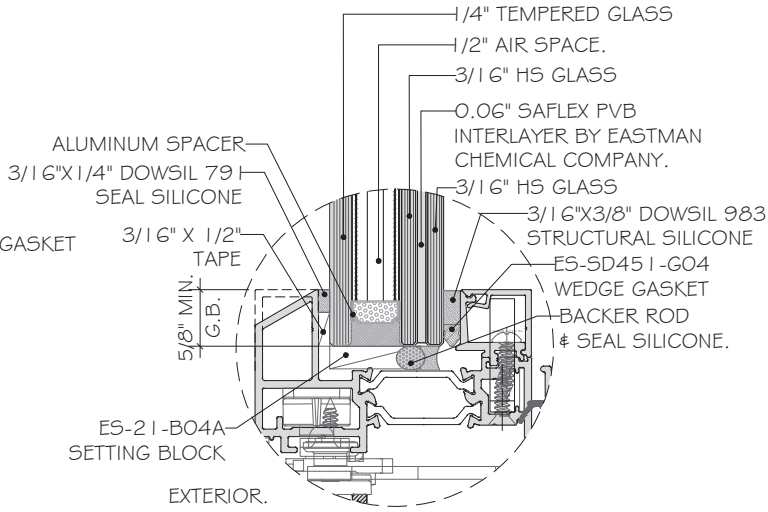
GLASS TYPE "G10" FOR SMI
7/16" LAMINATED GLASS



GLASS TYPE "G11" FOR SMI
9/16" LAMINATED GLASS



GLASS TYPE "G12" FOR SMI
9/16" LAMINATED GLASS



GLASS TYPE "G13" FOR SMI
1 3/16" INSULATED LAMINATED GLASS
LAMINATED ON INTERIOR SIDE

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

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YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No 55983
C.E.N. 28477

August 24th, 2026

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DRAWING NO.			
AD21-51			
G2			
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CHART 1: DIRECT ANCHOR OPTION						
WINDOW HEIGHT INCH	WINDOW WIDTH INCH	ALLOWABLE LOAD (EXT+)PSF	ALLOWABLE LOAD (INT-)PSF	ANCHOR SPACING (INCH)		
				TYPE A INTO WOOD	TYPE B INTO CONCRETE	TYPE C INTO METAL
72.0	36.0	80.0	90.0	14	14	14
	42.0	80.0	90.0	12	12	12
	48.0	80.0	90.0	10	10	10
78.0	36.0	80.0	90.0	14	14	14
	42.0	80.0	90.0	12	12	12
	48.0	80.0	90.0	10	10	10
84.0	36.0	80.0	90.0	14	14	14
	42.0	80.0	90.0	12	12	12
	48.0	80.0	90.0	10	10	10

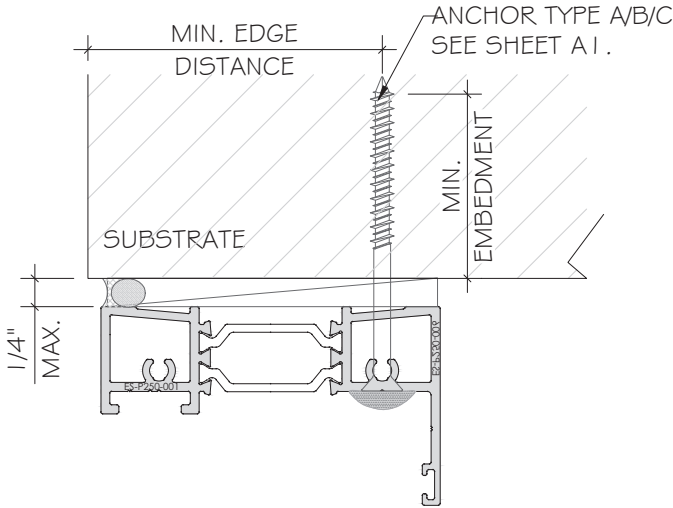


CHART 2: STRAP ANCHOR OPTION						
WINDOW HEIGHT INCH	WINDOW WIDTH INCH	ALLOWABLE LOAD (EXT+)PSF	ALLOWABLE LOAD (INT-)PSF	ANCHOR SPACING (INCH)		
				TYPE D INTO WOOD	TYPE E INTO CONCRETE	TYPE F INTO METAL
72.0	36.0	80.0	90.0	12	16	16
	42.0	80.0	90.0	10	14	16
	48.0	80.0	90.0	9	13	15
78.0	36.0	80.0	90.0	12	16	16
	42.0	80.0	90.0	10	14	16
	48.0	80.0	90.0	9	13	15
84.0	36.0	80.0	90.0	12	16	16
	42.0	80.0	90.0	10	14	16
	48.0	80.0	90.0	9	13	15

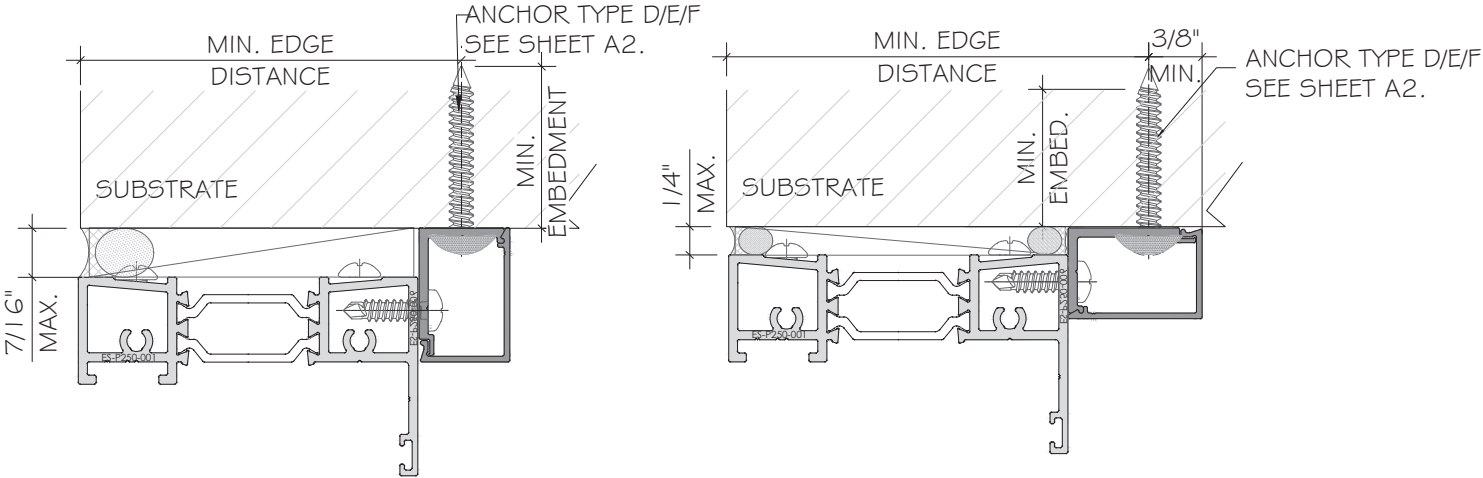
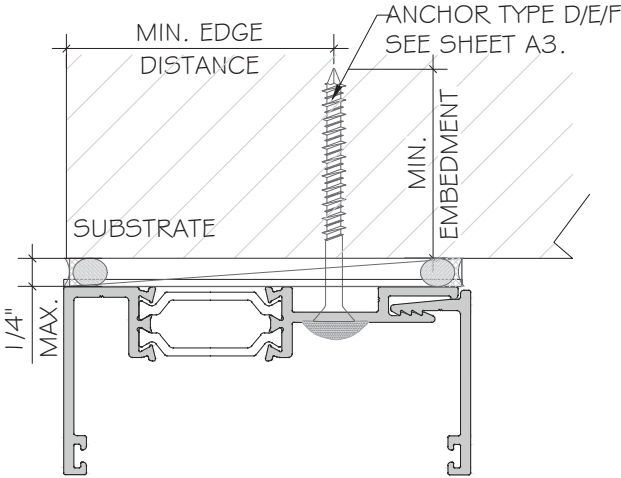
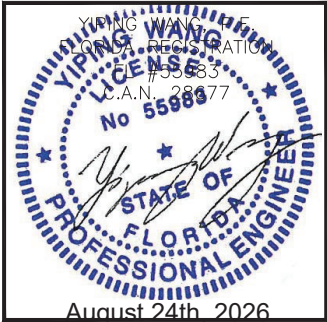


CHART 3: RECEPTOR ANCHOR OPTION						
WINDOW HEIGHT INCH	WINDOW WIDTH INCH	ALLOWABLE LOAD (EXT+)PSF	ALLOWABLE LOAD (INT-)PSF	ANCHOR SPACING (INCH)		
				TYPE D INTO WOOD	TYPE E INTO CONCRETE	TYPE F INTO METAL
72.0	36.0	80.0	90.0	14	16	16
	42.0	80.0	90.0	12	16	16
	48.0	80.0	90.0	11	16	16
78.0	36.0	80.0	90.0	14	16	16
	42.0	80.0	90.0	12	16	16
	48.0	80.0	90.0	11	16	16
84.0	36.0	80.0	90.0	14	16	16
	42.0	80.0	90.0	12	16	16
	48.0	80.0	90.0	11	16	16



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TEL.(305) 624-7775

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CHART 4: DIRECT ANCHOR OPTION						
WINDOW HEIGHT INCH	WINDOW WIDTH INCH	ALLOWABLE LOAD (EXT+)PSF	ALLOWABLE LOAD (INT-)PSF	ANCHOR SPACING (INCH)		
				TYPE G INTO WOOD	TYPE H INTO CONCRETE	TYPE F INTO METAL
84.0	30.0	95.0	105.0	16	16	16
	36.0	95.0	105.0	16	16	16
	42.0	95.0	105.0	16	16	16
	48.0	95.0	105.0	14.6	16	16

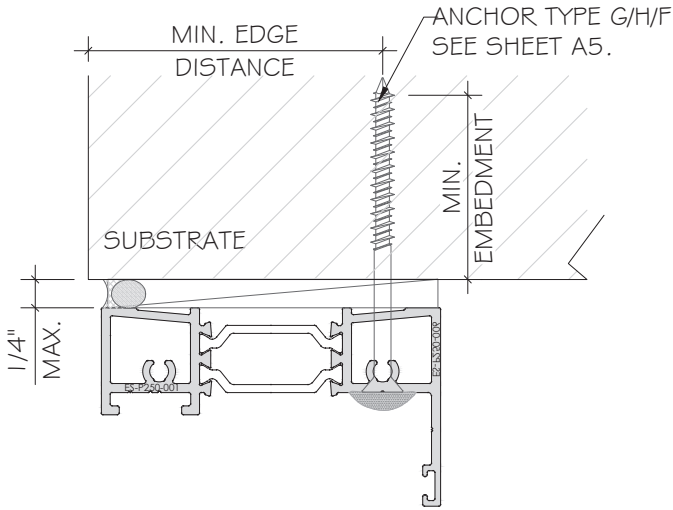


CHART 5: STRAP ANCHOR OPTION						
WINDOW HEIGHT INCH	WINDOW WIDTH INCH	ALLOWABLE LOAD (EXT+)PSF	ALLOWABLE LOAD (INT-)PSF	ANCHOR SPACING (INCH)		
				TYPE G INTO WOOD	TYPE H INTO CONCRETE	TYPE F INTO METAL
84.0	30.0	95.0	105.0	13.7	16	16
	36.0	95.0	105.0	11.4	16	16
	42.0	95.0	105.0	9.8	16	15
	48.0	95.0	105.0	8.6	14.6	13.1

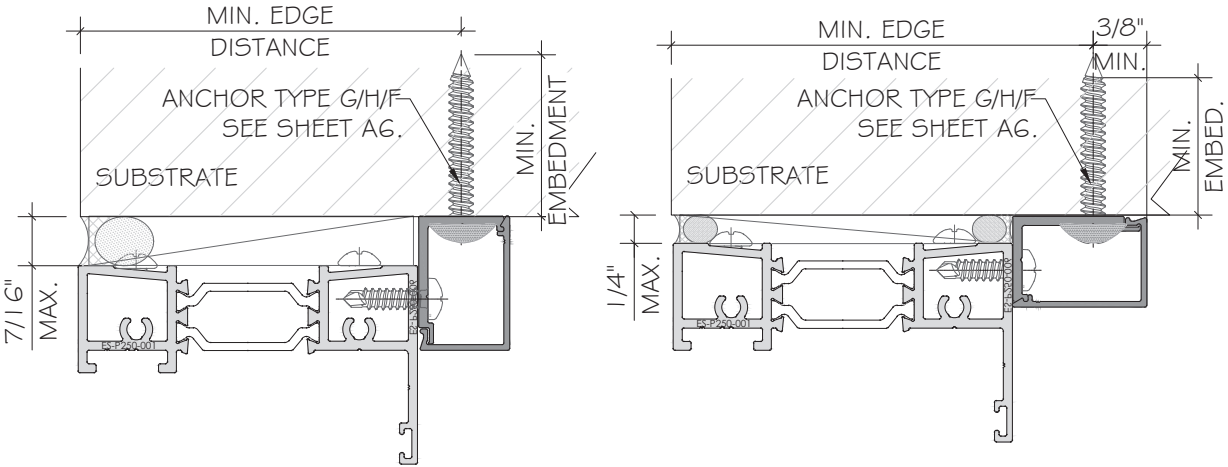
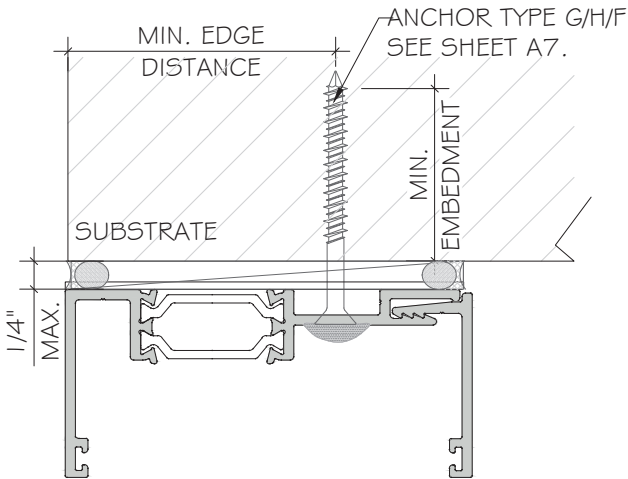
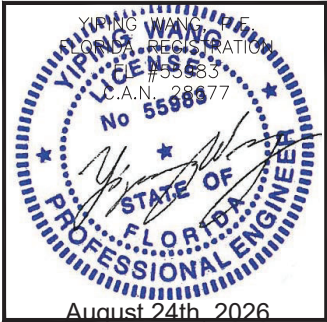


CHART 6: RECEPTOR ANCHOR OPTION						
WINDOW HEIGHT INCH	WINDOW WIDTH INCH	ALLOWABLE LOAD (EXT+)PSF	ALLOWABLE LOAD (INT-)PSF	ANCHOR SPACING (INCH)		
				TYPE G INTO WOOD	TYPE H INTO CONCRETE	TYPE F INTO METAL
84.0	30.0	95.0	105.0	16	16	16
	36.0	95.0	105.0	13.6	16	16
	42.0	95.0	105.0	11.7	16	16
	48.0	95.0	105.0	10.2	16	16



FLORIDA APPROVAL:

FL40521.1



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www.MCYEngineering.com mcy@mcyengineering.com

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MIAMI, FL33138

TEL.(305) 624-7775

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ANCHOR OPTIONS:

ANCHOR TYPE 'A' - 3/16" DIA. ULTRACON BY 'DEWALT'(F_u=164 KSI, F_y=117 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE (5G=0.55 MIN.)
W/ 1 1/2" MIN. PENETRATION. (HEAD/JAMB/SILL)
OR THRU 1 BY WOOD BUCK INTO CONCRETE. f_c=3050 PSI MIN.
W/ 1 3/4" MIN. EMBEDMENT. (HEAD/JAMB/SILL)

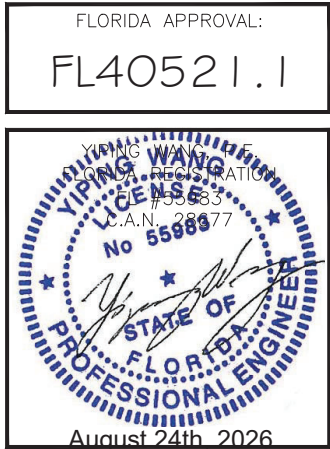
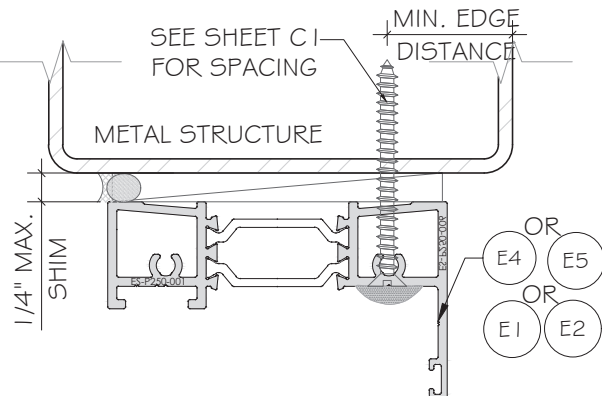
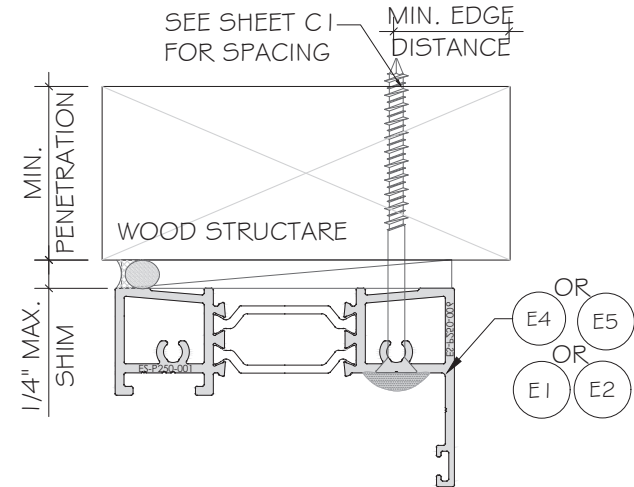
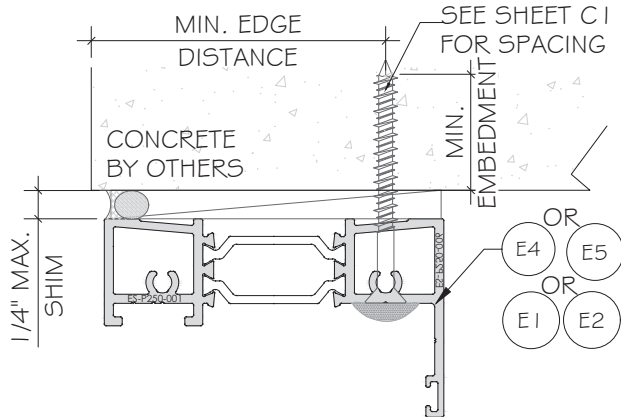
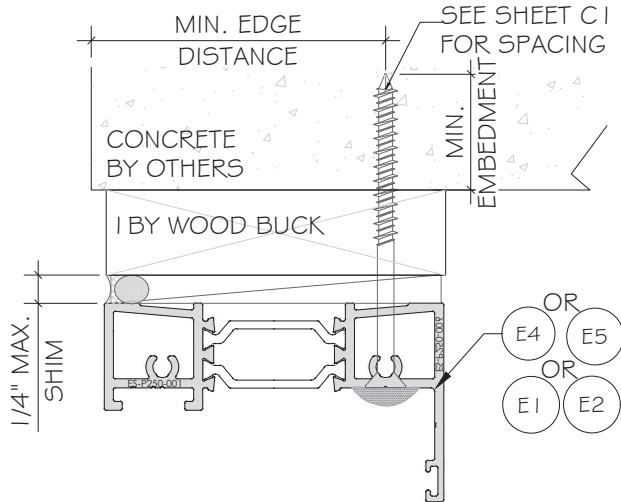
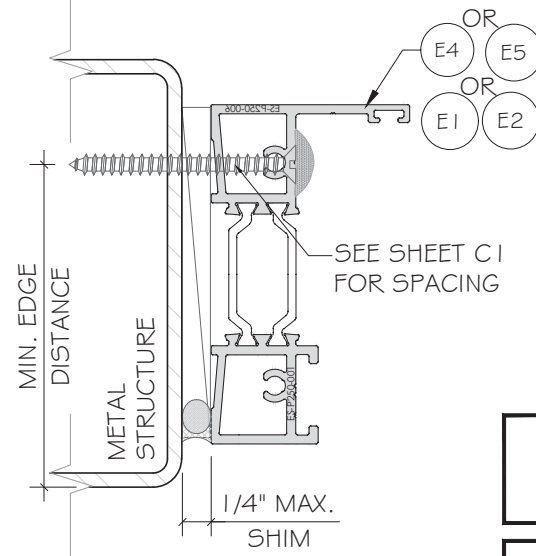
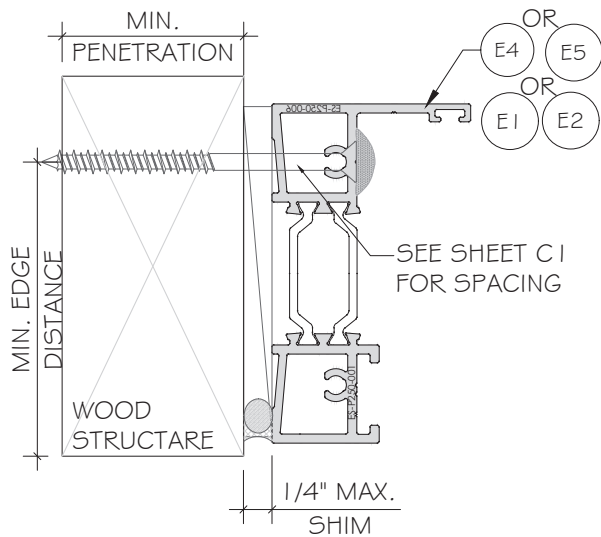
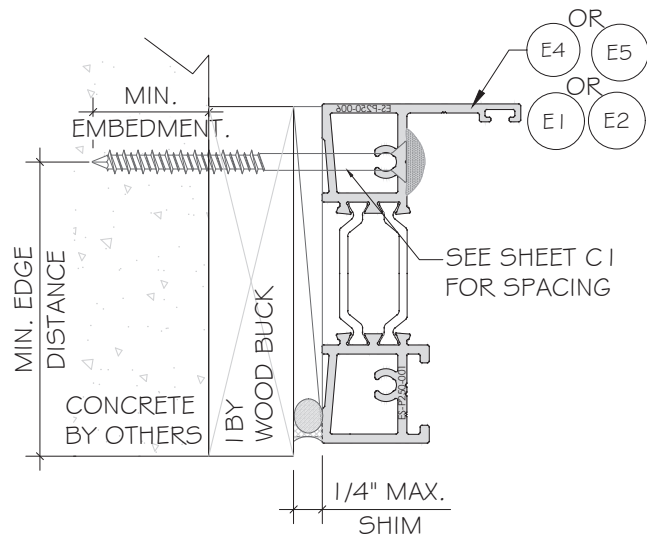
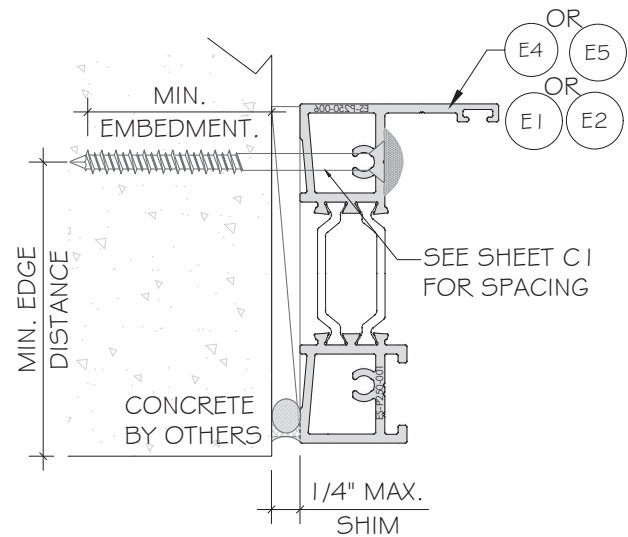
ANCHOR TYPE 'B' - 3/16" DIA. ULTRACON BY 'DEWALT'(F_u=164 KSI, F_y=117 KSI)
DIRECTLY INTO CONCRETE f_c=3050 PSI MIN.
W/ 1 3/4" MIN. EMBEDMENT. (HEAD/JAMB/SILL)

ANCHOR TYPE 'C' - #10 - SELF DRILLING SCREW GRADE 5 (F_u=120KSI, F_y=92KSI)
INTO F.B.C. APPROVED MULLIONS
OR INTO METAL STRUCTURES. (HEAD/JAMB/SILL)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

ALUMINUM: 1/8" THK. MIN. (6063-T5, MIN)
STEEL: 1/8" THK. MIN. (F_y=36KSI MIN)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

MIN. EDGE DISTANCE
INTO CONCRETE = 2 1/2" MIN.
INTO WOOD = 1" MIN.
INTO METAL STRUCTURE = 1/2" MIN.

NOTE:
METAL STRUCTURES OR WOOD 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.



Rev. No.	Date	Drawn By	Description
R7	08.24.2026	JAMES	REVISION
R6	03.30.2026	JAMES	REVISION
Drawing Date 08.24.2026 Scale			
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ANCHOR OPTIONS:

ANCHOR TYPE 'D' - 1/4" DIA. ULTRACON+ BY 'DEWALT'(Fu= 164KSI, Fy= 148KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE (SG=0.55 MIN.)
W/ 1 1/2" MIN. PENETRATION. (HEAD/JAMB/SILL)
OR THRU 1 BY WOOD BUCK INTO CONCRETE f_c=3050 PSI MIN.
W/ 1 3/4" MIN. EMBED. (HEAD/JAMB/SILL)

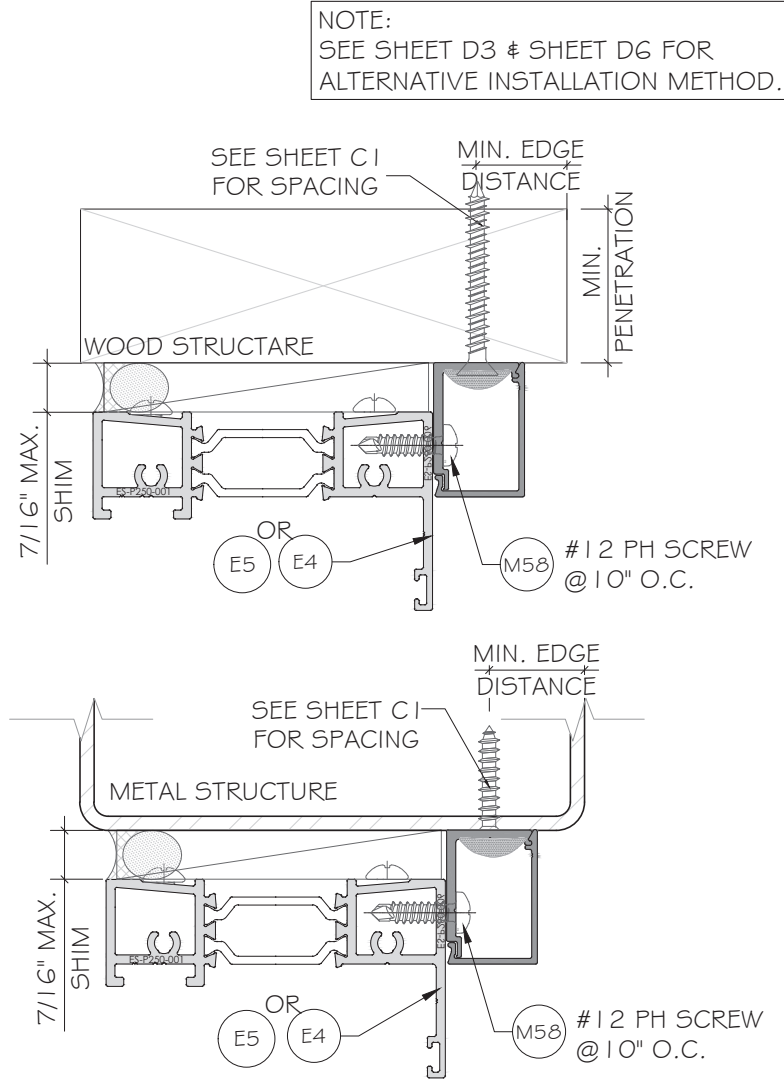
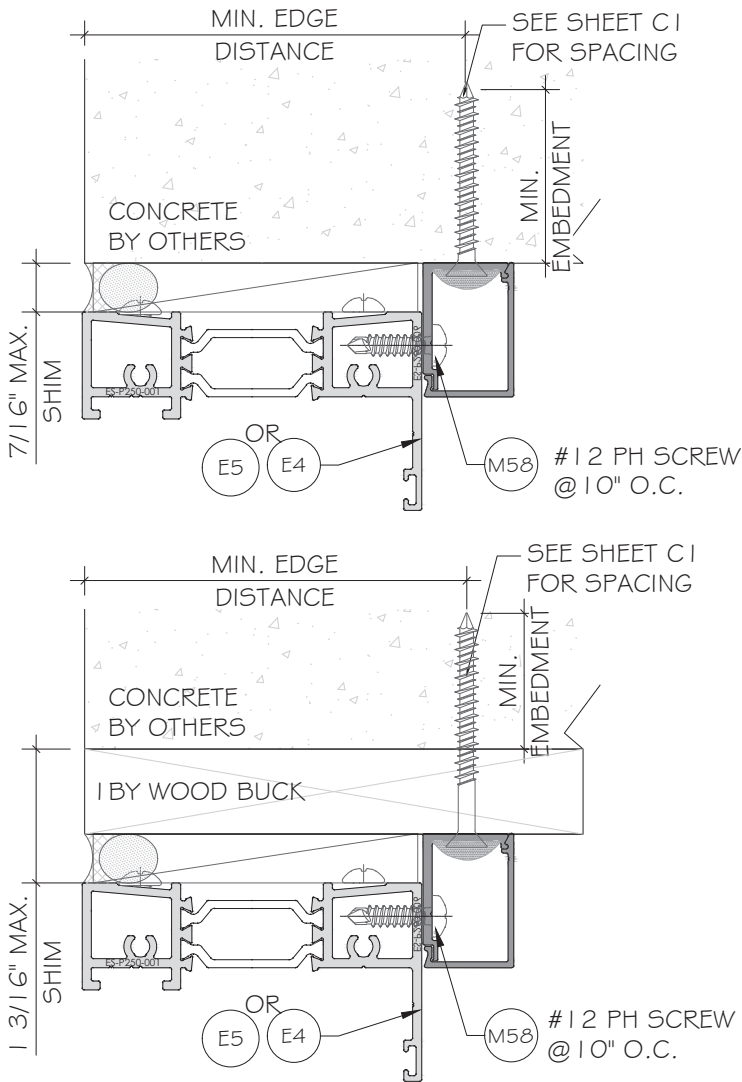
ANCHOR TYPE 'E' - 1/4" DIA. ULTRACON+ BY 'DEWALT'(Fu= 164KSI, Fy= 148KSI)
DIRECTLY INTO CONCRETE f_c=3050 PSI MIN.
W/ 1 3/4" MIN. EMBEDMENT. (HEAD/JAMB/SILL).

ANCHOR TYPE 'F' - 1/4" DIA. SEFL-DRILLING SCREWS, GRADE 5 (Fu= 120KSI, Fy=92KSI)
INTO F.B.C. APPROVED MULLION
OR METAL STRUCTURES. (HEAD/JAMB/SILL).
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

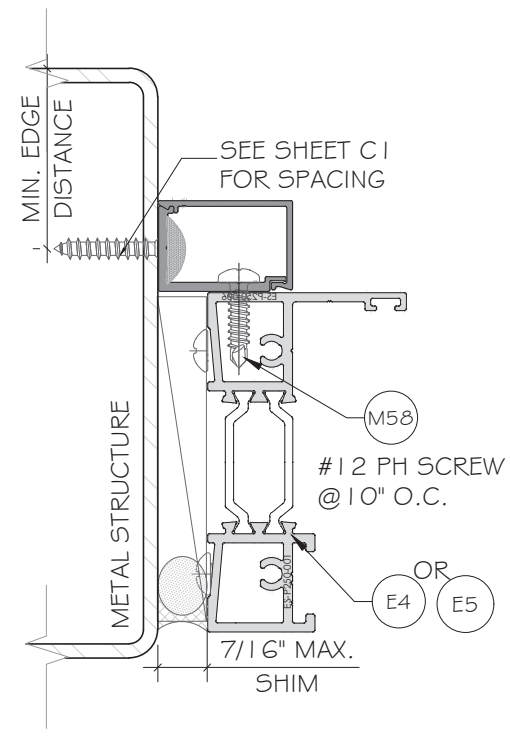
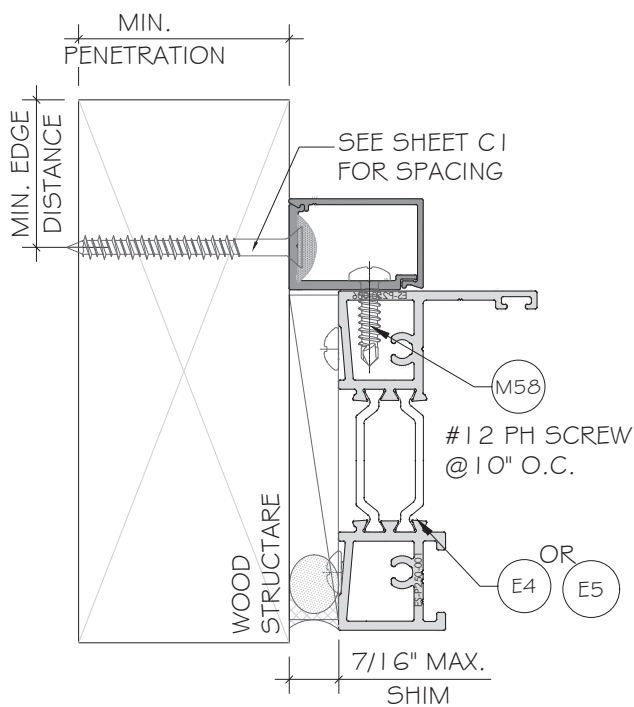
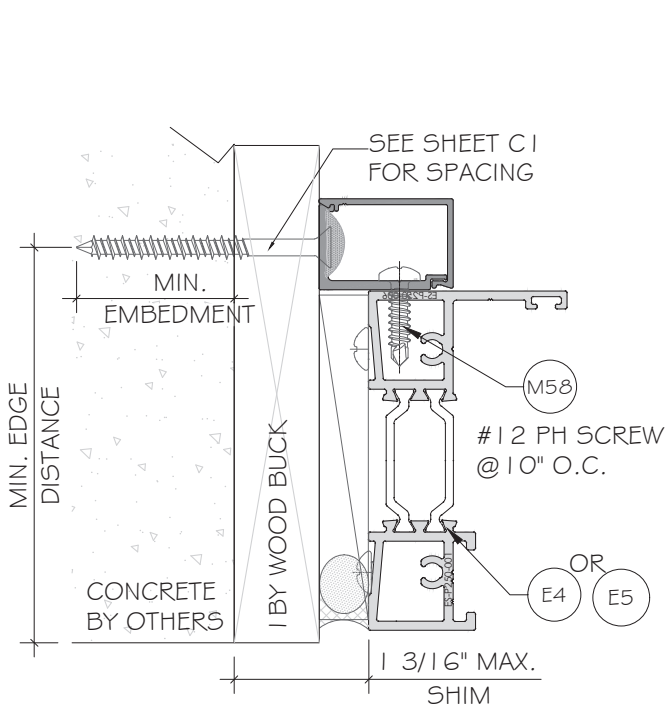
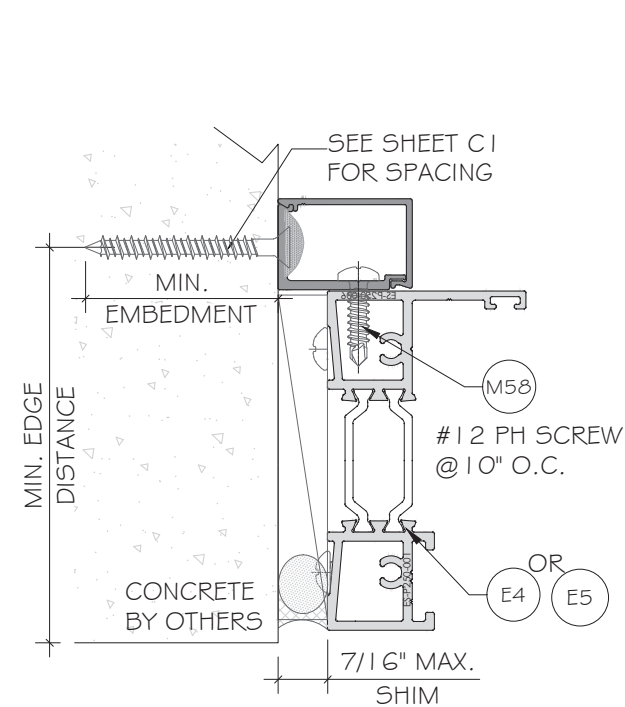
ALUMINUM: 3/16" THK. MIN. (6063-T5, MIN)
STEEL: 1/8" THK. MIN. (Fy=36KSI MIN)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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

NOTE:
METAL STRUCTURES OR WOOD 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.



NOTE:
SEE SHEET D3 & SHEET D6 FOR
ALTERNATIVE INSTALLATION METHOD.



FLORIDA APPROVAL:
FL40521.1

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No 55988
August 24th, 2026

MCY ENGINEERING, INC.
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ES-P300 CASEMENT WINDOW - L.M.I & S.M.I
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R7	08.24.2026	JAMES		REVISION
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ANCHOR OPTIONS:

ANCHOR TYPE 'D' - 1/4" DIA. ULTRACON+ BY 'DEWALT'(F_u=164KSI, F_y=148KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE (5G=0.55 MIN.)
W/ 1 1/2" MIN. PENETRATION. (HEAD/JAMB/SILL).
OR THRU 1 BY WOOD BUCK INTO CONCRETE. f_c=3050 PSI.
W/ 1 3/4" MIN. EMBED.(HEAD/JAMB/SILL).

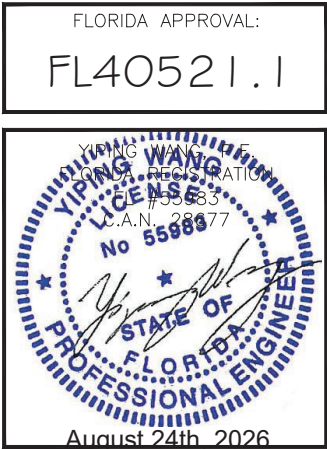
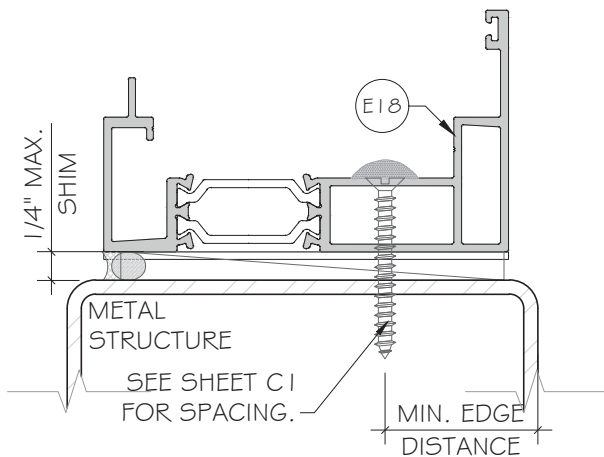
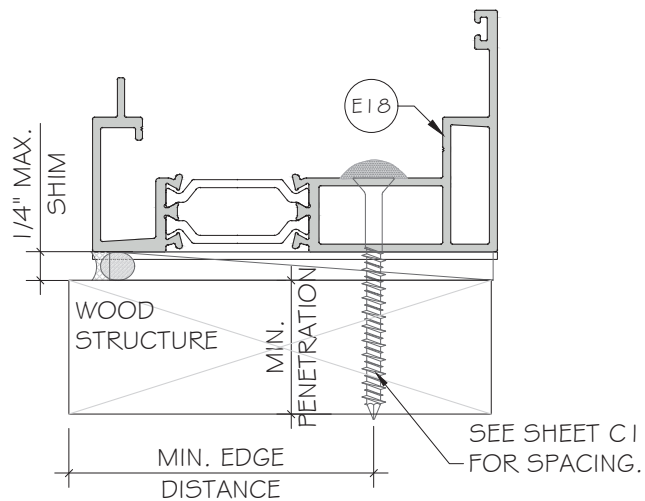
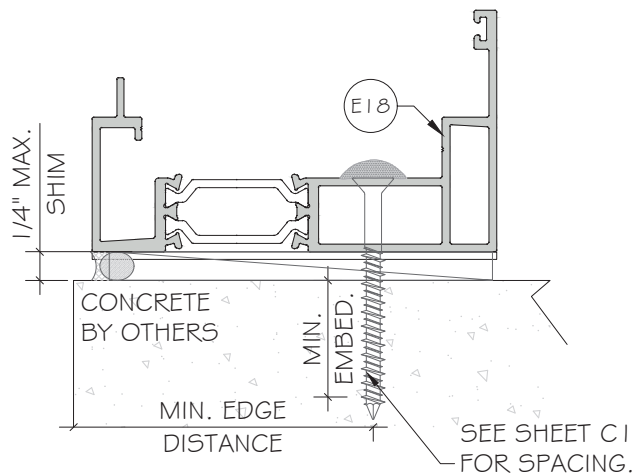
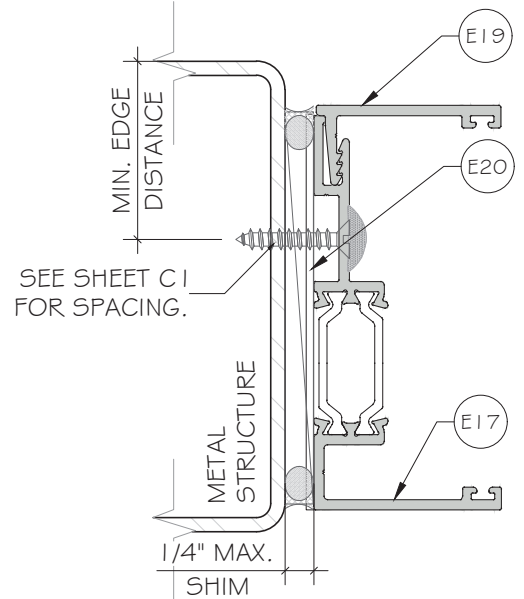
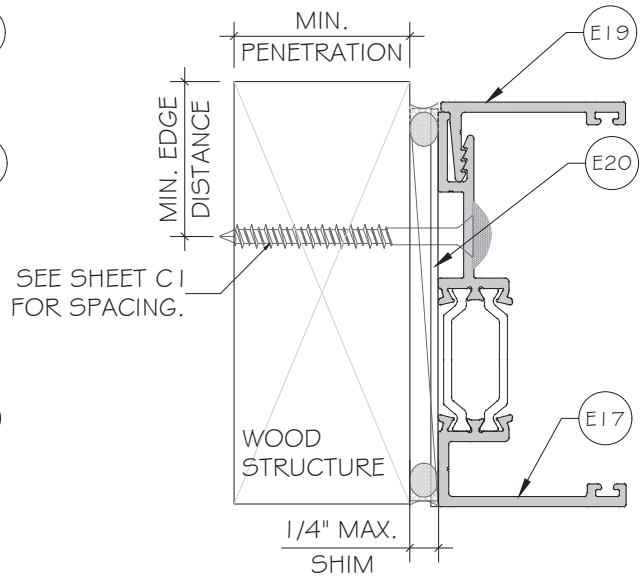
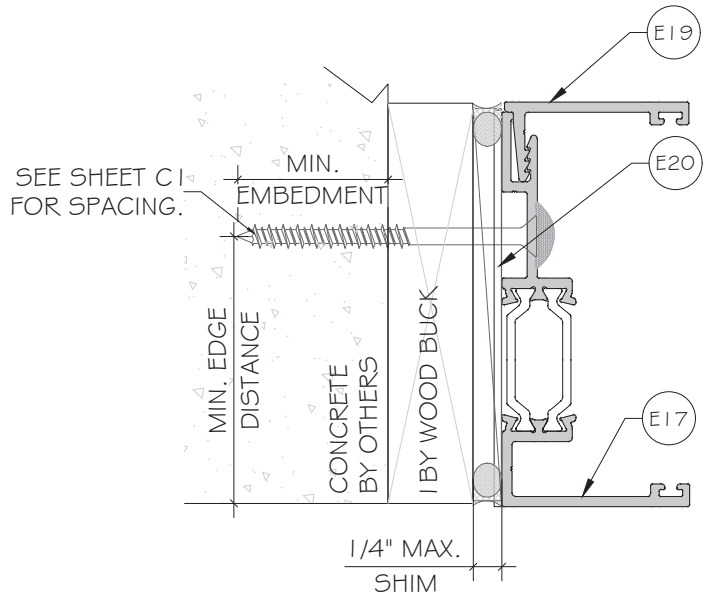
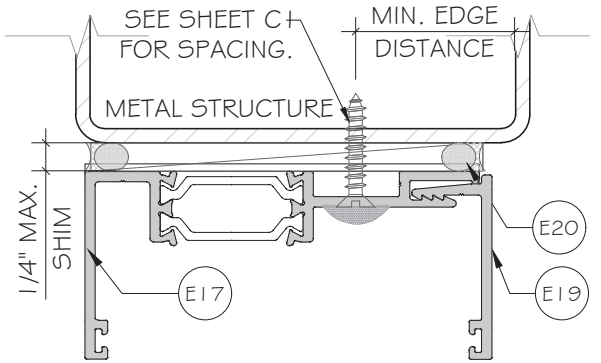
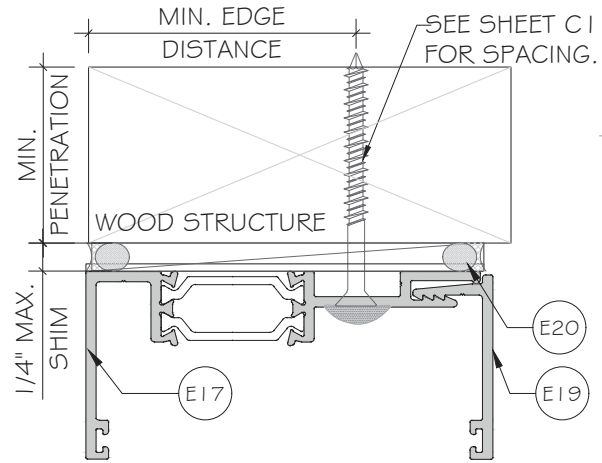
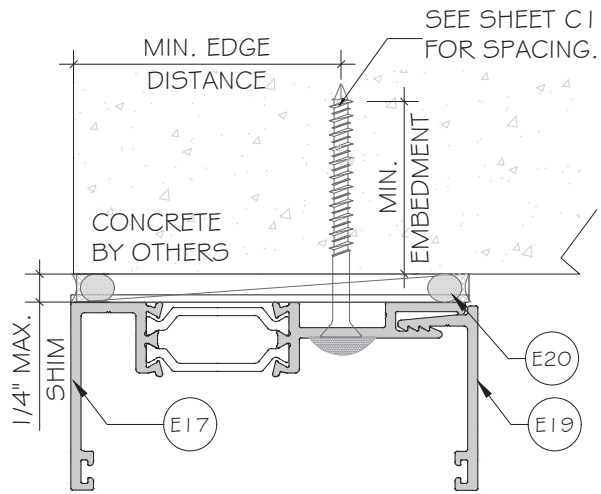
ANCHOR TYPE 'E' - 1/4" DIA. ULTRACON+ BY 'DEWALT'(F_u=164KSI, F_y=148KSI)
DIRECTLY INTO CONCRETE f_c=3050 PSI MIN.
W/ 1 3/4" MIN. EMBEDMENT. (HEAD/JAMB/SILL)

ANCHOR TYPE 'F' - 1/4" DIA. SEFL-DRILLING SCREWS, GRADE 5
(F_u=120KSI, F_y=92KSI)
INTO F.B.C APPROVED MULLION
OR METAL STRUCTURES. (HEAD/JAMB/SILL)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

ALUMINUM: 1/4" THK. MIN. (6063-T5, MIN)
STEEL: 1/8" THK. MIN. (F_y=36KSI MIN)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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

NOTE:
METAL STRUCTURES OR WOOD 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.



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ANCHOR OPTIONS:

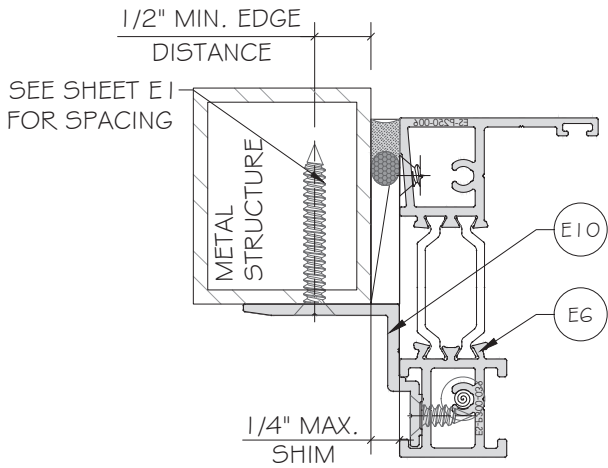
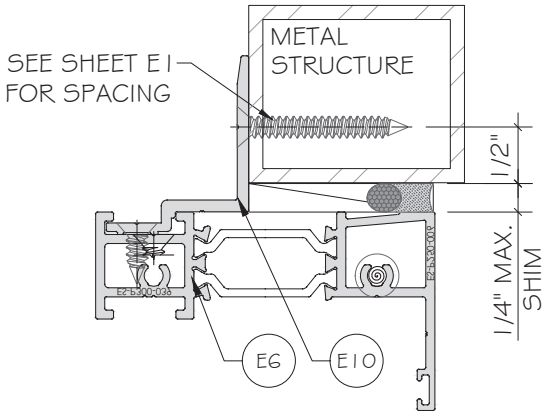
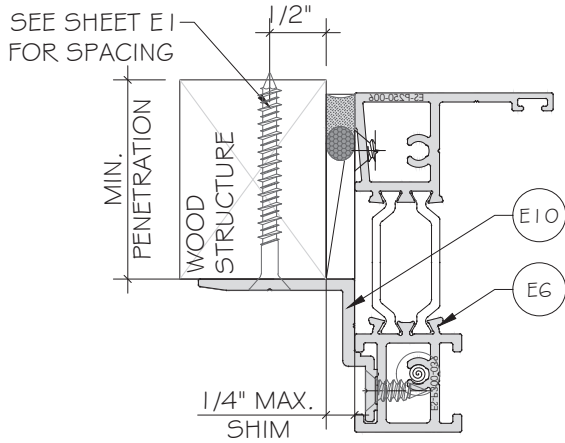
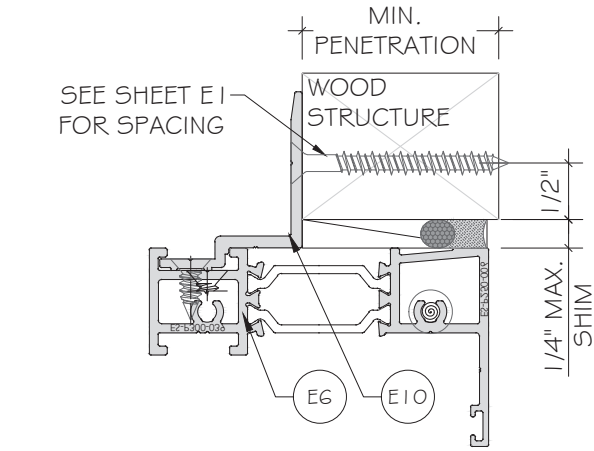
ANCHOR TYPE 'A' - 3/16" DIA. ULTRACON BY 'DEWALT'
(Fu=164 KSI, Fy=117 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE (SG=0.55 MIN.)
WITH 1 3/4" MIN. PENETRATION. (HEAD/JAMB/SILL)

ANCHOR TYPE 'C' - #10 - SELF DRILLING SCREW GRADE 5
(Fu=120KSI, Fy=92KSI)
INTO F.B.C. APPROVED MULLIONS
OR INTO METAL STRUCTURES. (HEAD/JAMB/SILL)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

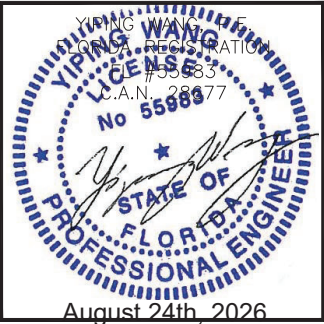
ALUMINUM: 1/4" THK. MIN. (6063-T5, MIN.)
STEEL: 1/4" THK. MIN. (Fy=36ksi MIN.)

MIN. EDGE DISTANCE
INTO WOOD = 1/2" MIN.
INTO METAL STRUCTURE = 1/2" MIN.

NOTE:
METAL STRUCTURES OR WOOD 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.

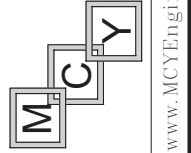


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ES-P300 CASEMENT WINDOW - L.M.I & S.M.I
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Drawn Date: 08.24.2026			
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MIRAMAR, FL 33027 P: 305.588.5224
www.MCYEngineering.com mcy@mcyengineering.com

ANCHOR OPTIONS:

ANCHOR TYPE 'G' - 5/16" DIA. ULTRACON BY 'DEWALT'(Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE (SG=0.55 MIN.)
WITH 2" MIN. PENETRATION. (HEAD/JAMB/SILL)
OR THRU 1 BY WOOD BUCK INTO CONCRETE. f_c =3000 PSI MIN.
WITH MIN. 2" EMBEDMENT. (HEAD/JAMB/SILL)

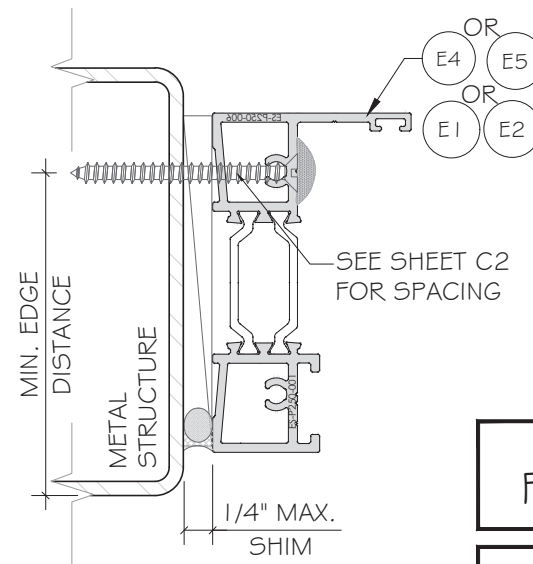
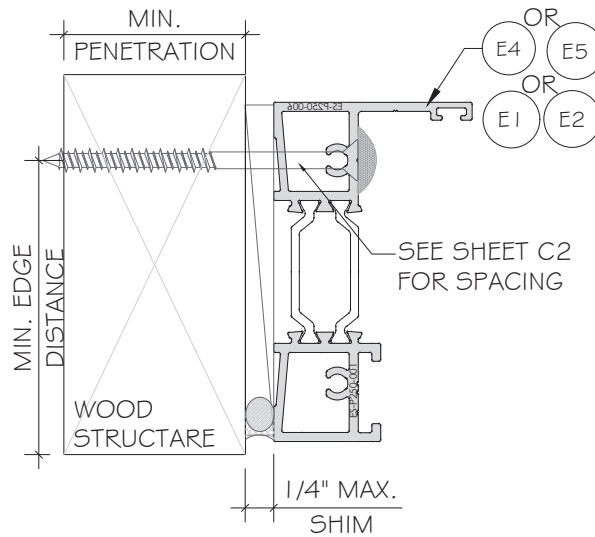
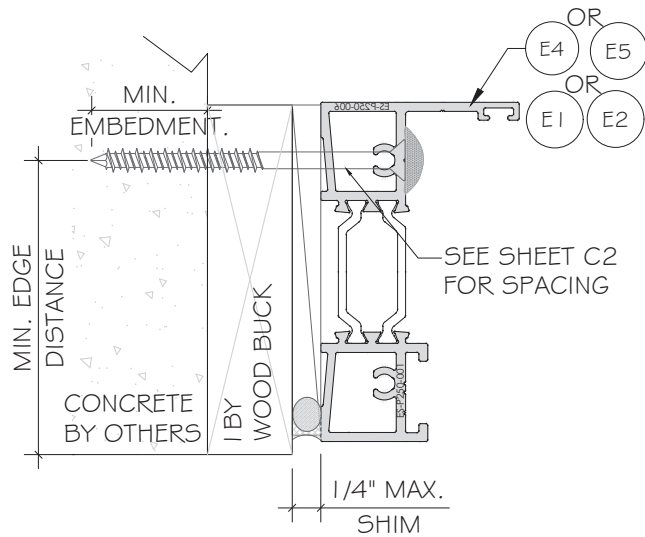
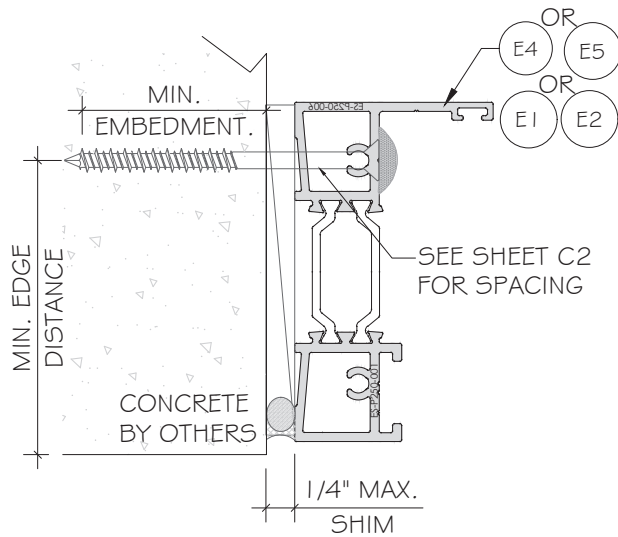
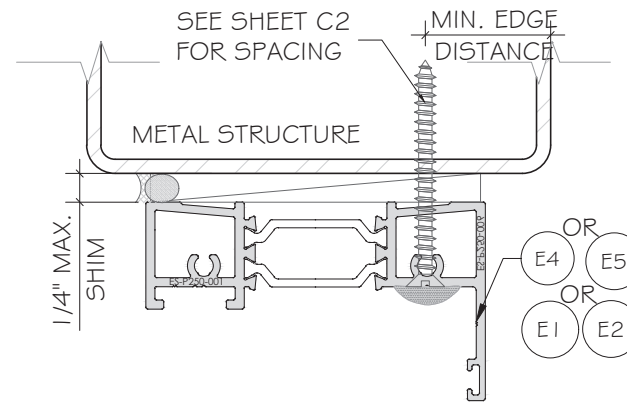
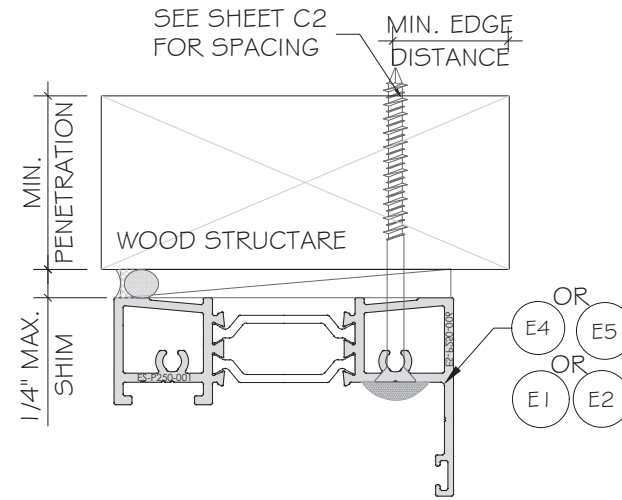
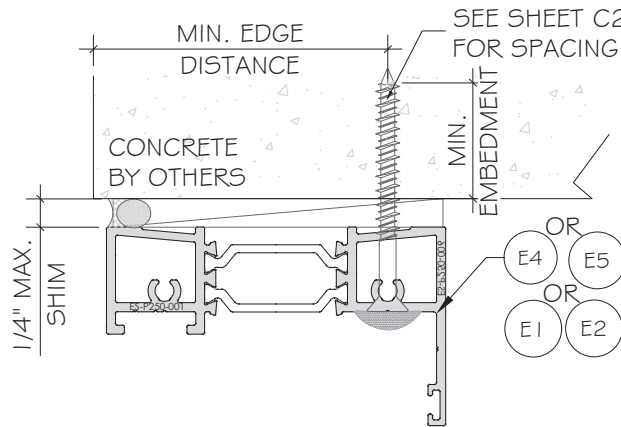
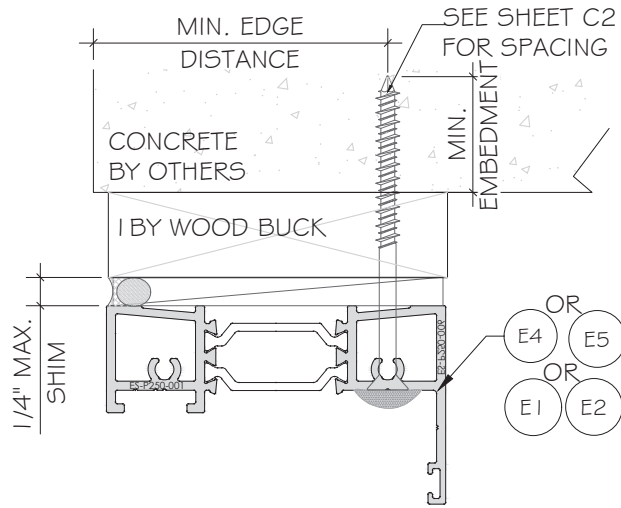
ANCHOR TYPE 'H' - 5/16" DIA. ULTRACON BY 'DEWALT'(Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE f_c =3000 PSI MIN.
W/ 2" MIN. EMBEDMENT. (HEAD/JAMB/SILL)

ANCHOR TYPE 'F' - #14 - SELF DRILLING SCREW GRADE 5
(Fu=120KSI, Fy=92KSI)
INTO F.B.C. APPROVED MULLIONS
OR INTO METAL STRUCTURES. (HEAD/JAMB/SILL)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

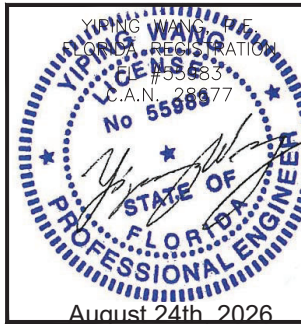
ALUMINUM: 1/8" THK. MIN. (6063-T5, MIN)
STEEL: 1/8" THK. MIN. (Fy=36KSI MIN)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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

NOTE:
METAL STRUCTURES OR WOOD STRUCTURES BY
OTHERS TO BE DESIGNED TO SUPPORT THE LOADS
IMPOSED BY THIS GLAZING SYSTEM AND TO
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R7	08.24.2026	JAMES	REVISION
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ANCHOR OPTIONS:

ANCHOR TYPE 'G' - 5/16" DIA. ULTRACON BY 'DEWALT'(F_u=177 KSI, F_y=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE (5G=0.55 MIN.)
WITH 2" MIN. PENETRATION. (HEAD/JAMB/SILL).
OR THRU 1 BY WOOD BUCK INTO CONCRETE. F_c=3000 PSI.
WITH MIN. 2" EMBEDMENT. (HEAD/JAMB/SILL).

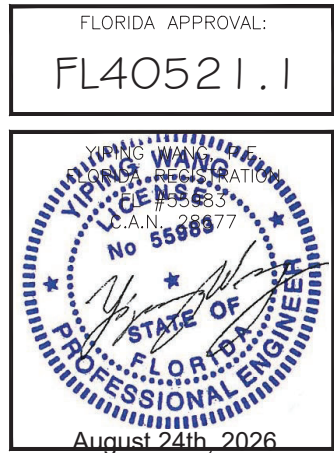
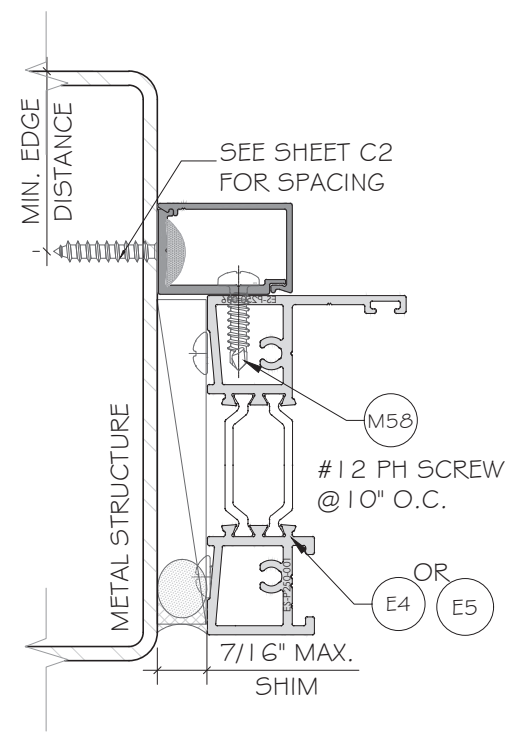
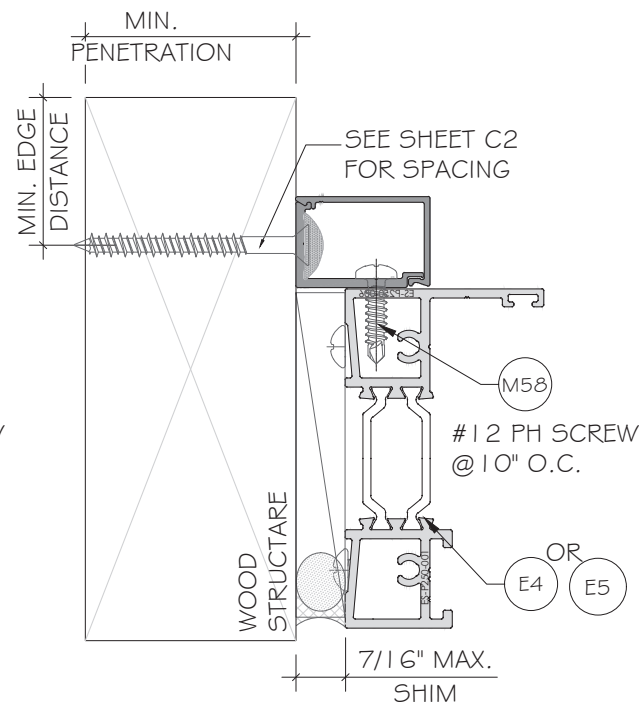
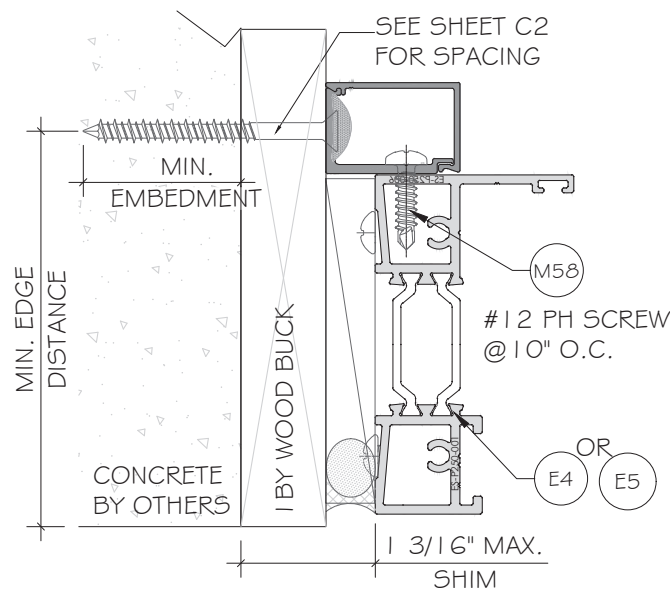
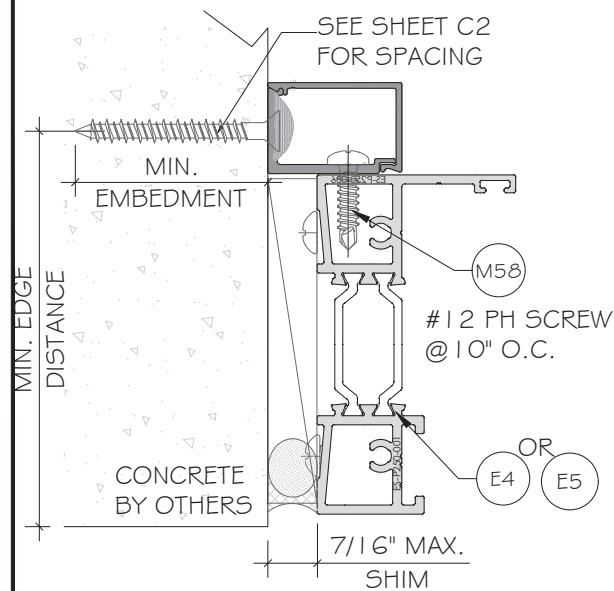
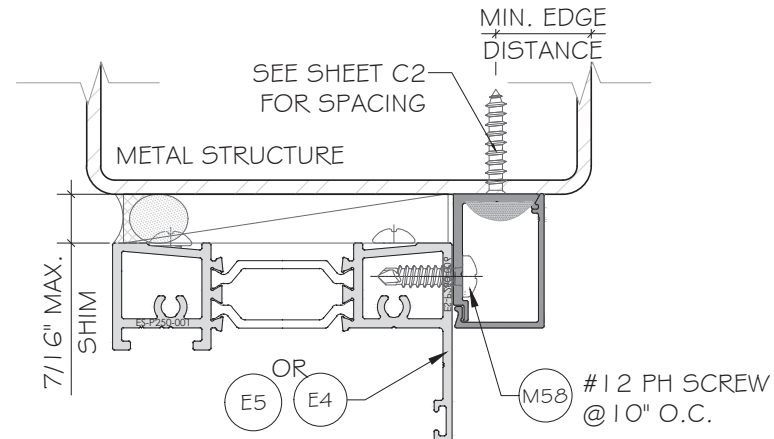
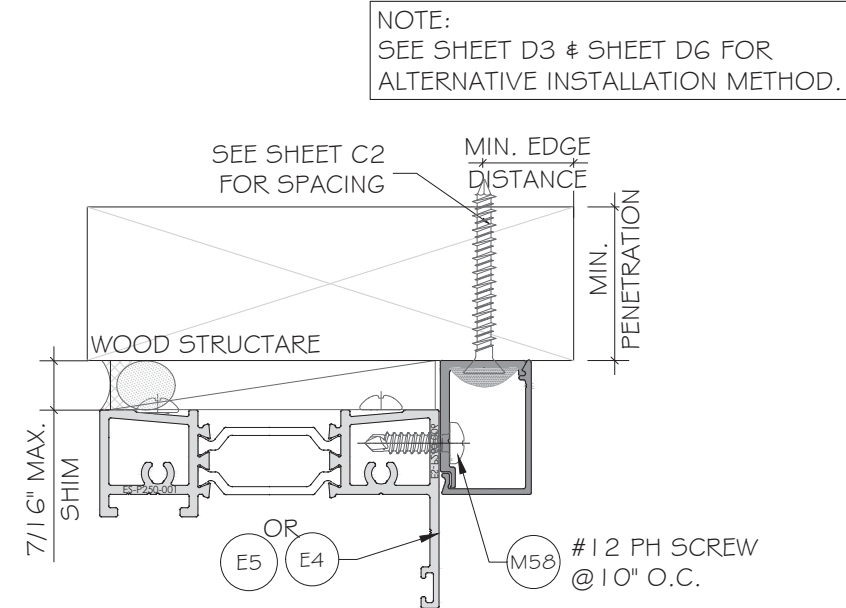
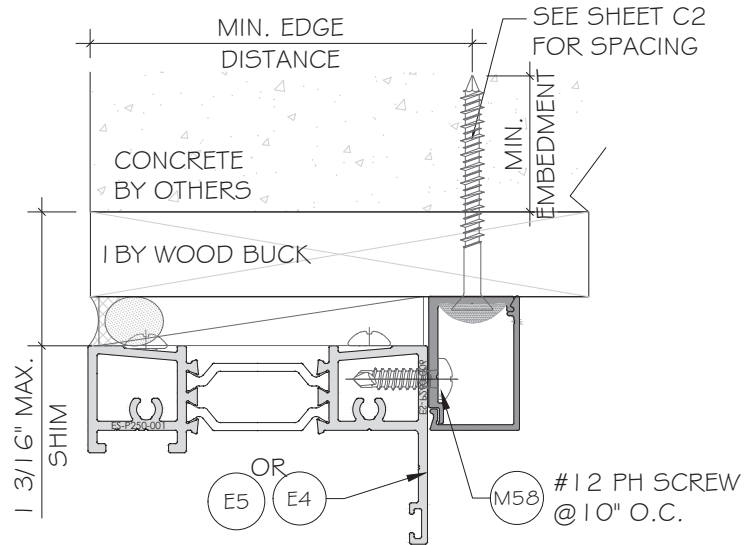
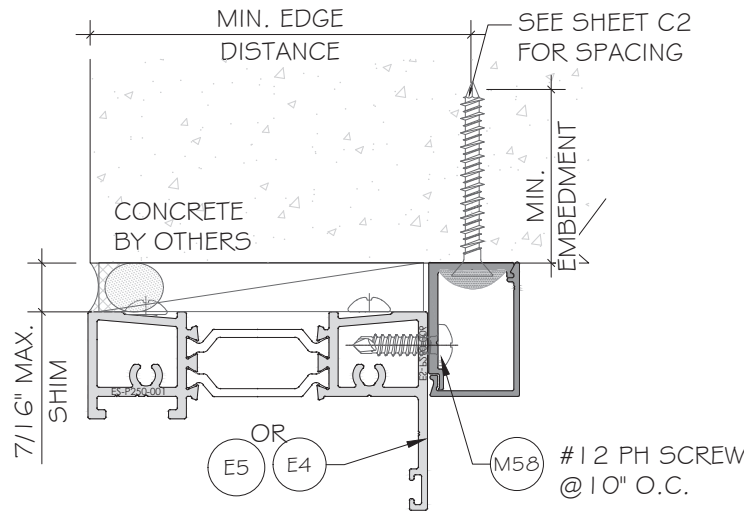
ANCHOR TYPE 'H' - 5/16" DIA. ULTRACON BY 'DEWALT'(F_u=177 KSI, F_y=155 KSI)
DIRECTLY INTO CONCRETE F_c=3000 PSI MIN.
W/ 2" MIN. EMBEDMENT. (HEAD/JAMB/SILL).

ANCHOR TYPE 'F' - #14 - SELF DRILLING SCREW GRADE 5
(F_u=120KSI, F_y=92KSI)
INTO F.B.C. APPROVED MULLIONS
OR INTO METAL STRUCTURES. (HEAD/JAMB/SILL).
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

ALUMINUM: 3/16" THK. MIN. (6063-T5, MIN)
STEEL: 1/8" THK. MIN. (F_y=36KSI MIN)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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

NOTE:
METAL STRUCTURES OR WOOD 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.



ANCHOR OPTIONS:

ANCHOR TYPE 'G' - 5/16" DIA. ULTRACON BY 'DEWALT'(Fu= 177 KSI, Fy= 155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE (SG=0.55 MIN.)
WITH 2" MIN. PENETRATION. (HEAD/JAMB/SILL).
OR THRU 1 BY WOOD BUCK INTO CONCRETE. f'c=3000 PSI MIN.
WITH MIN. 2" EMBEDMENT. (HEAD/JAMB/SILL)

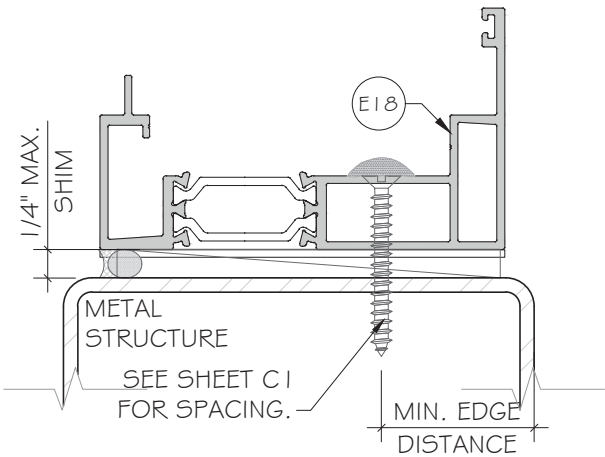
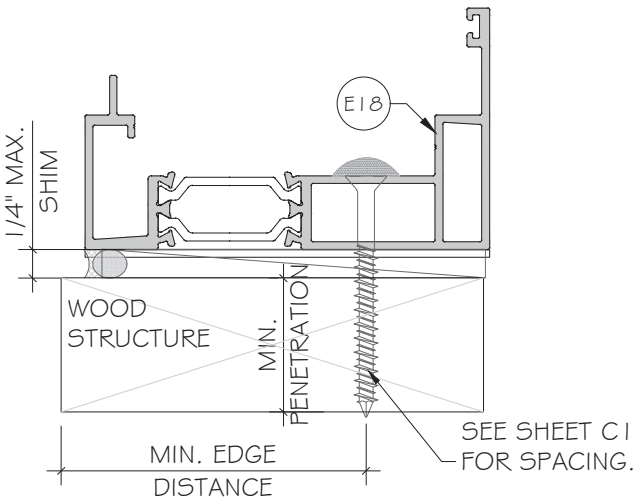
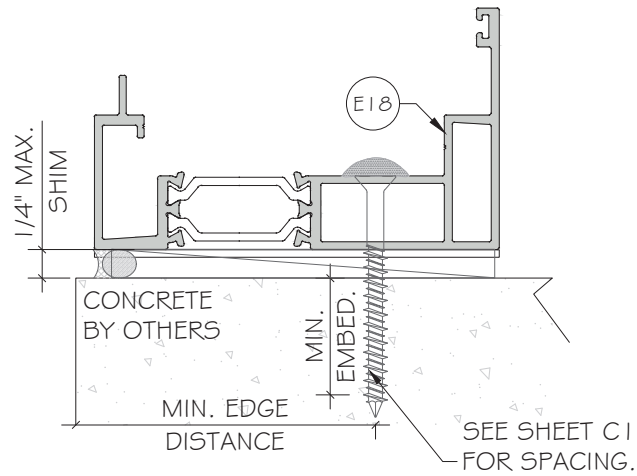
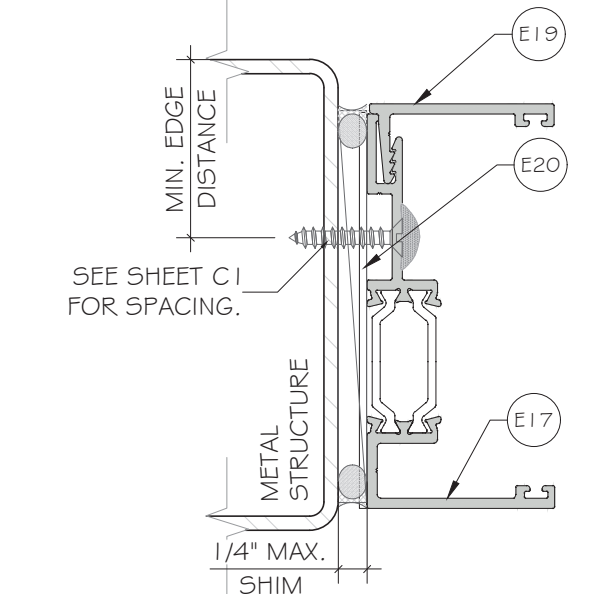
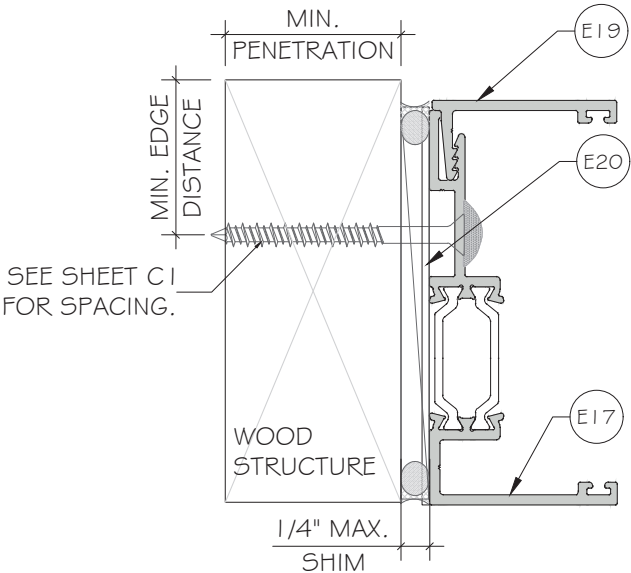
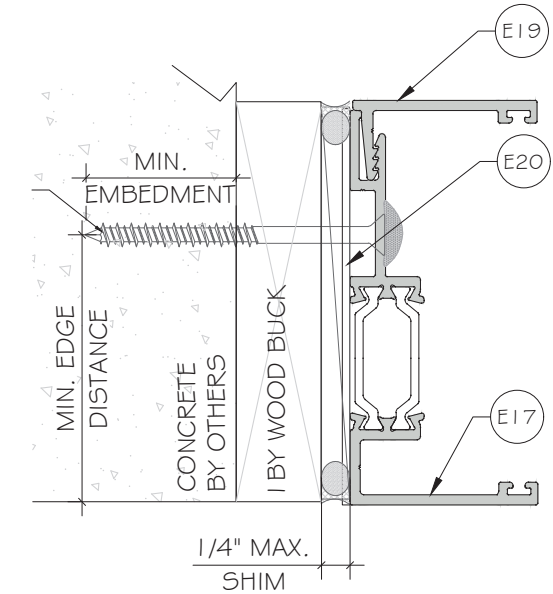
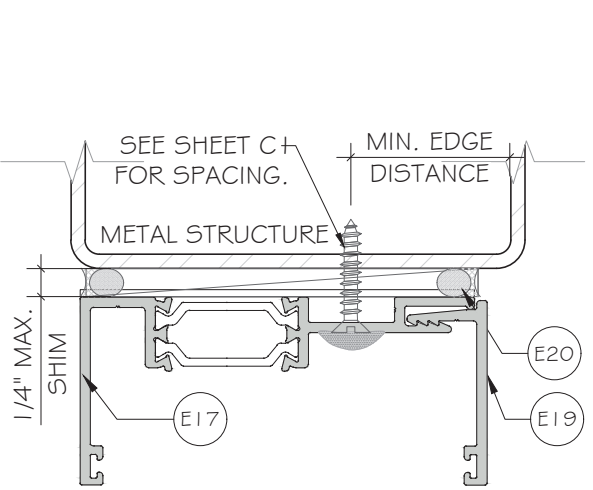
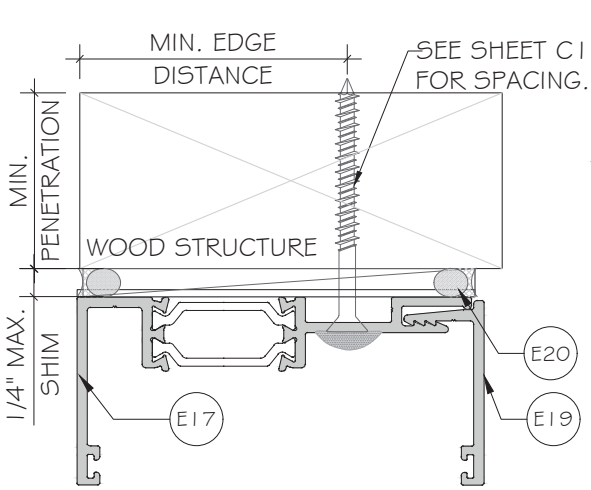
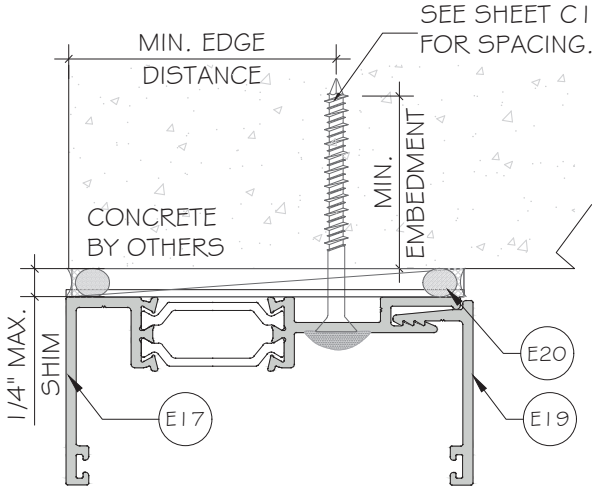
ANCHOR TYPE 'H' - 5/16" DIA. ULTRACON BY 'DEWALT'(Fu= 177 KSI, Fy= 155 KSI)
DIRECTLY INTO CONCRETE. f'c=3000 PSI MIN.
W/ 2" MIN. EMBEDMENT.

ANCHOR TYPE 'F' - #14 - SELF DRILLING SCREW GRADE 5
(Fu= 120KSI, Fy=92KSI)
INTO F.B.C. APPROVED MULLIONS
OR INTO METAL STRUCTURES. (HEAD/JAMB/SILL).
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

ALUMINUM: 1/4" THK. MIN. (6063-T5, MIN)
STEEL: 1/8" THK. MIN. (Fy=36KSI MIN)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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

NOTE:
METAL STRUCTURES OR WOOD 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.



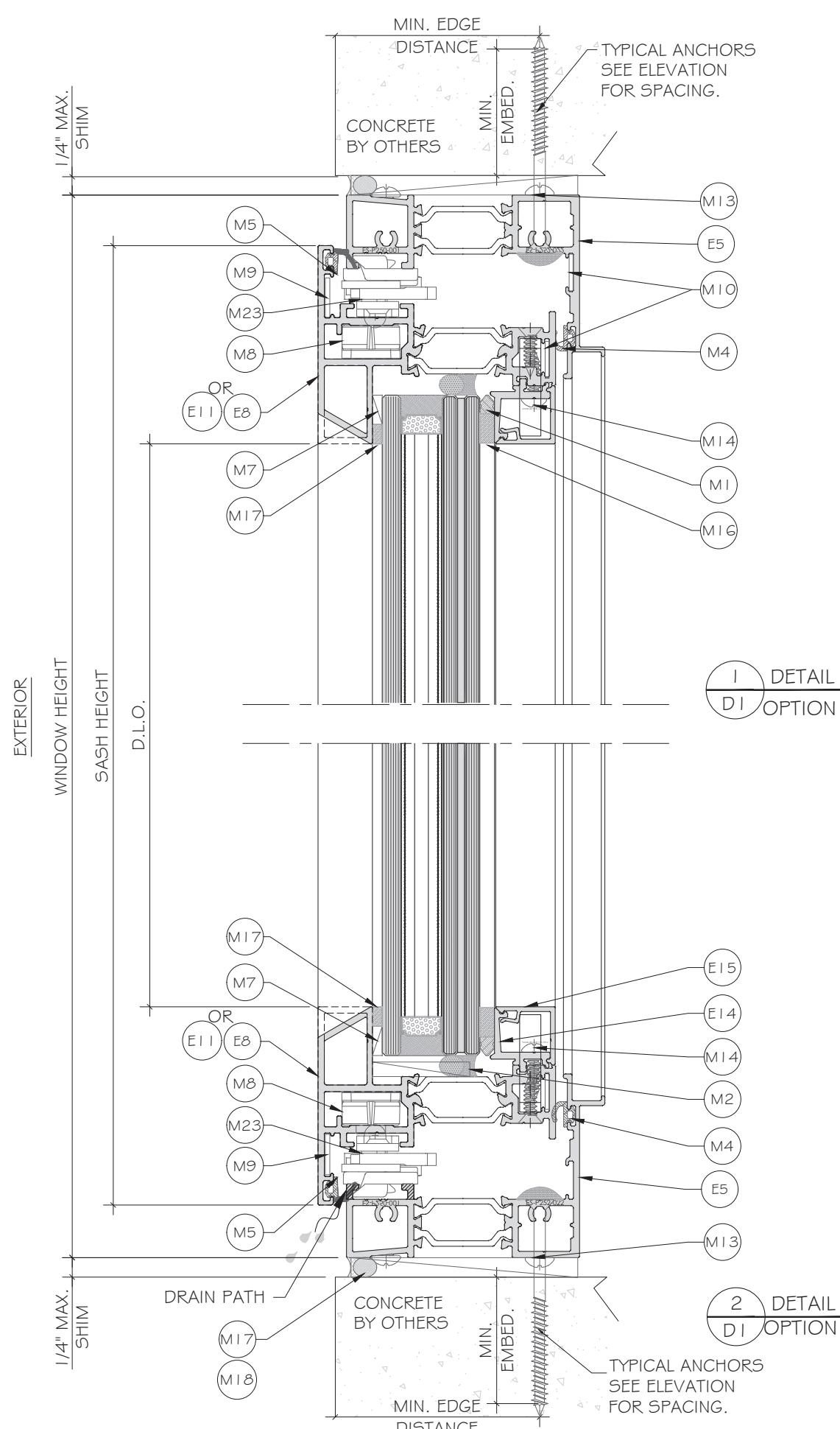
FLORIDA APPROVAL:
FL40521.1

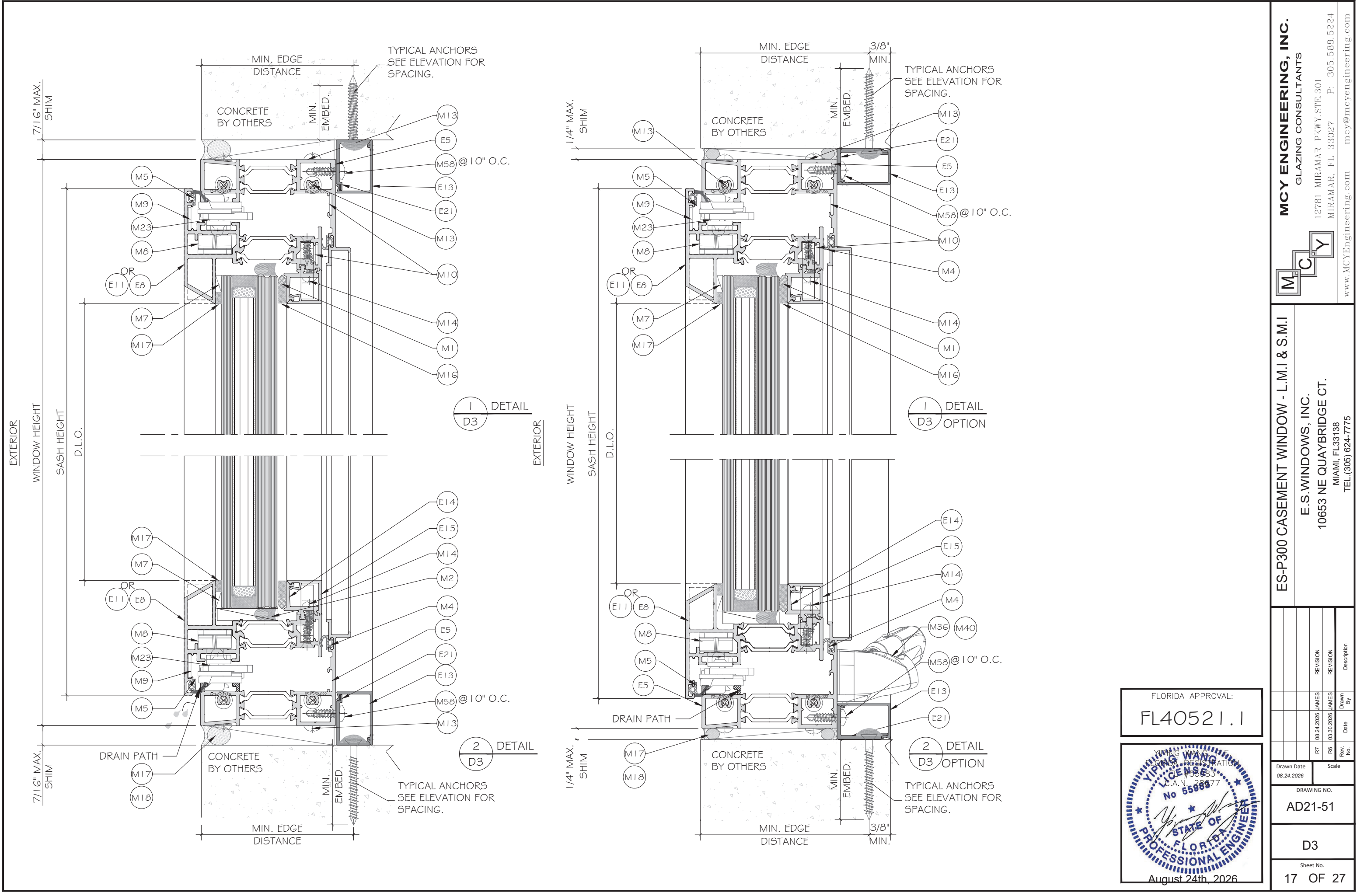


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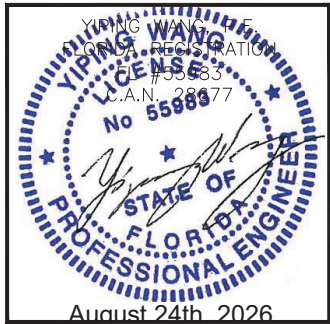
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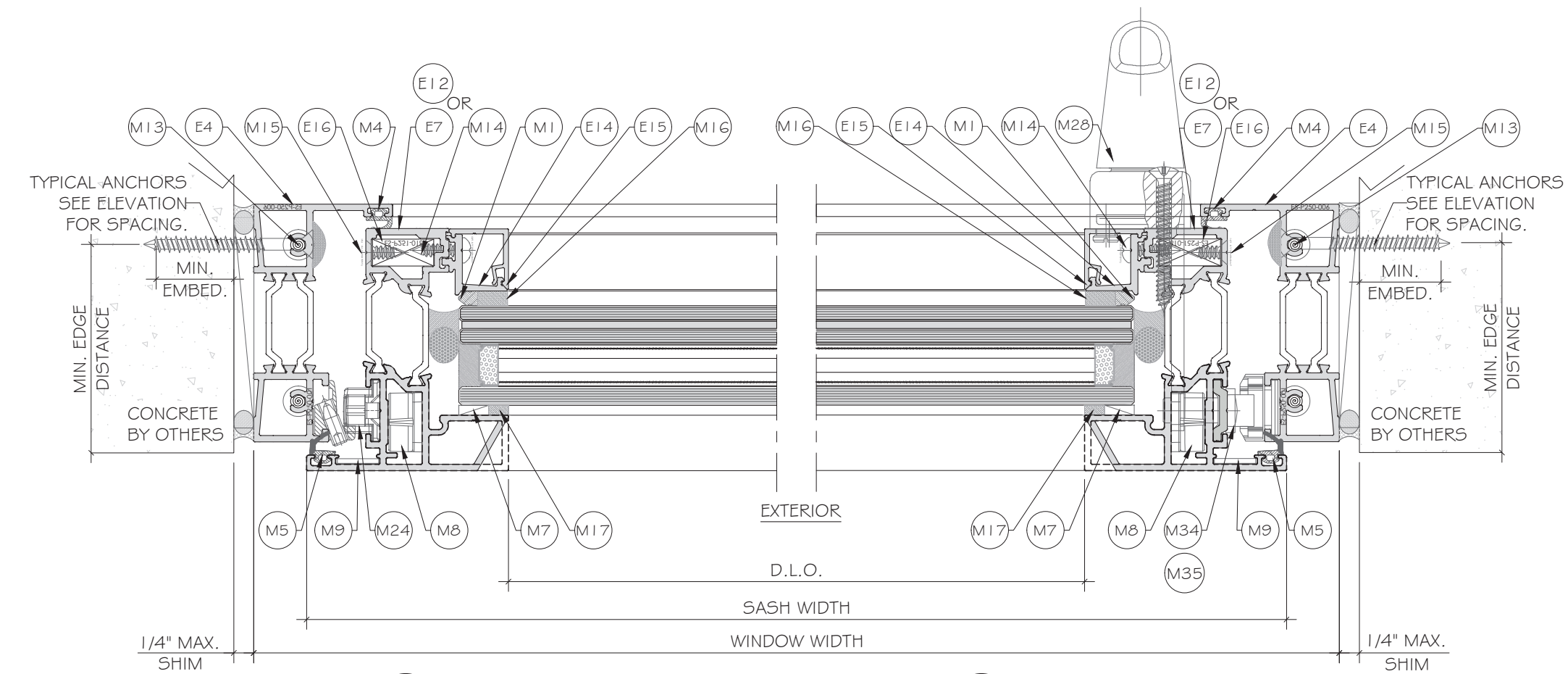
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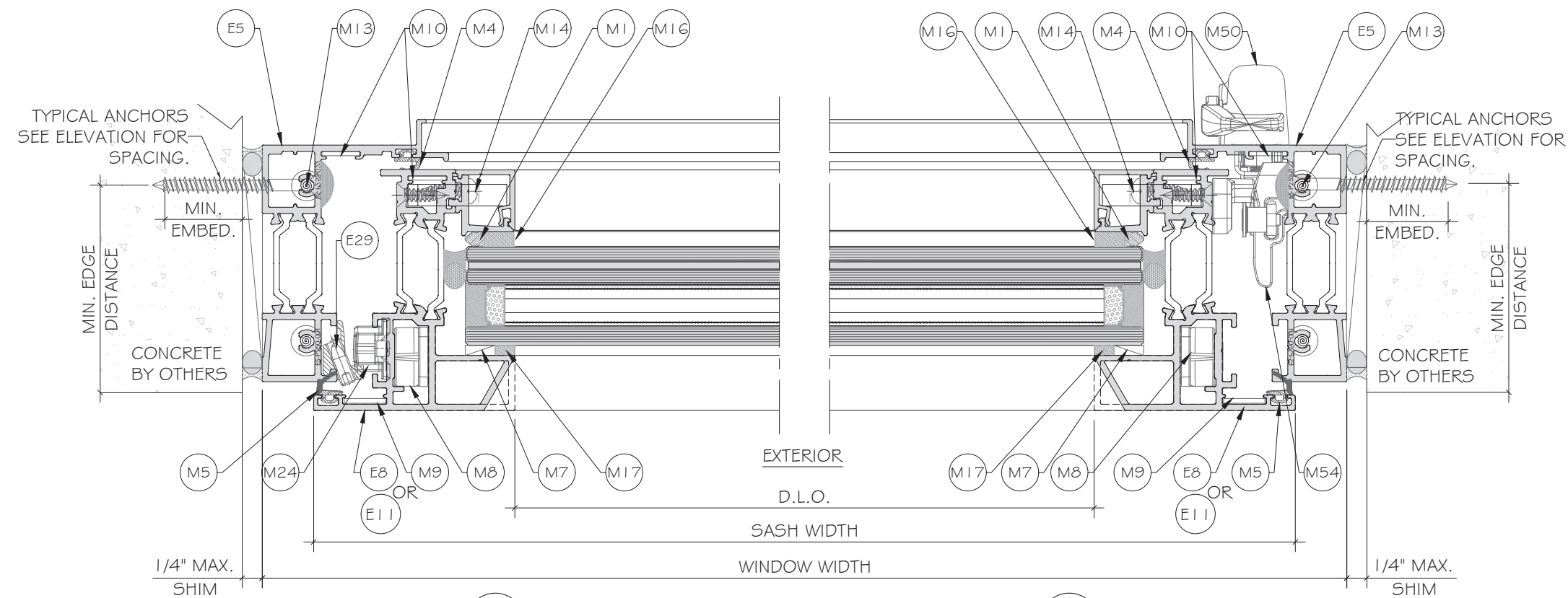
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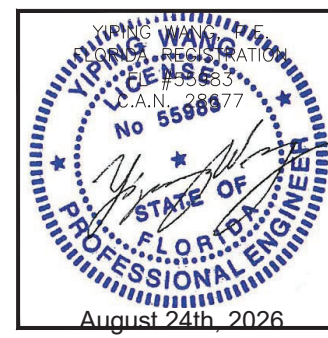
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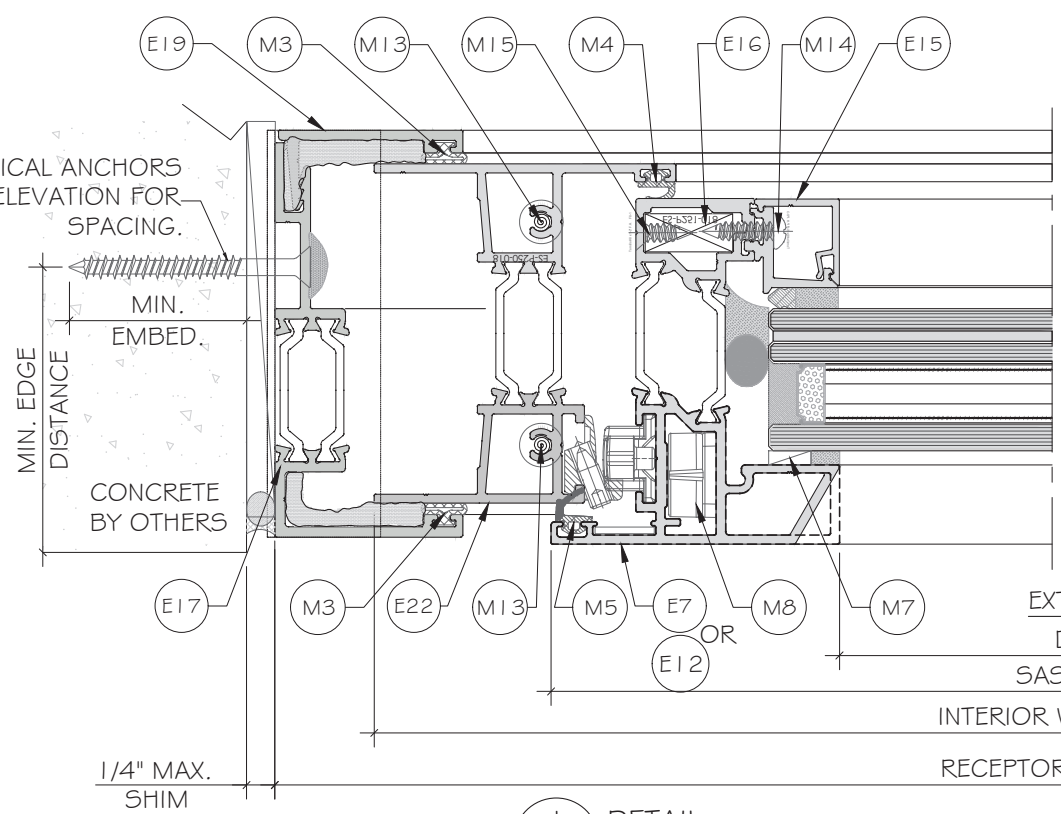
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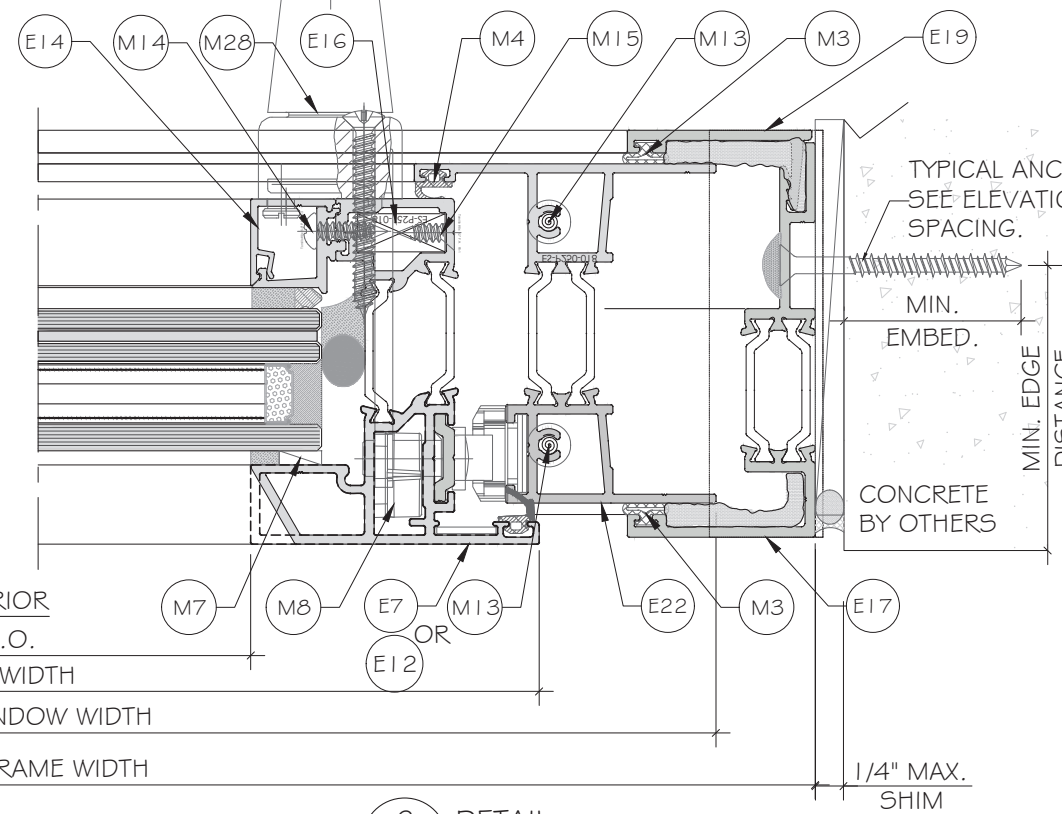
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CONCRETE
BY OTHERS



1 DETAIL
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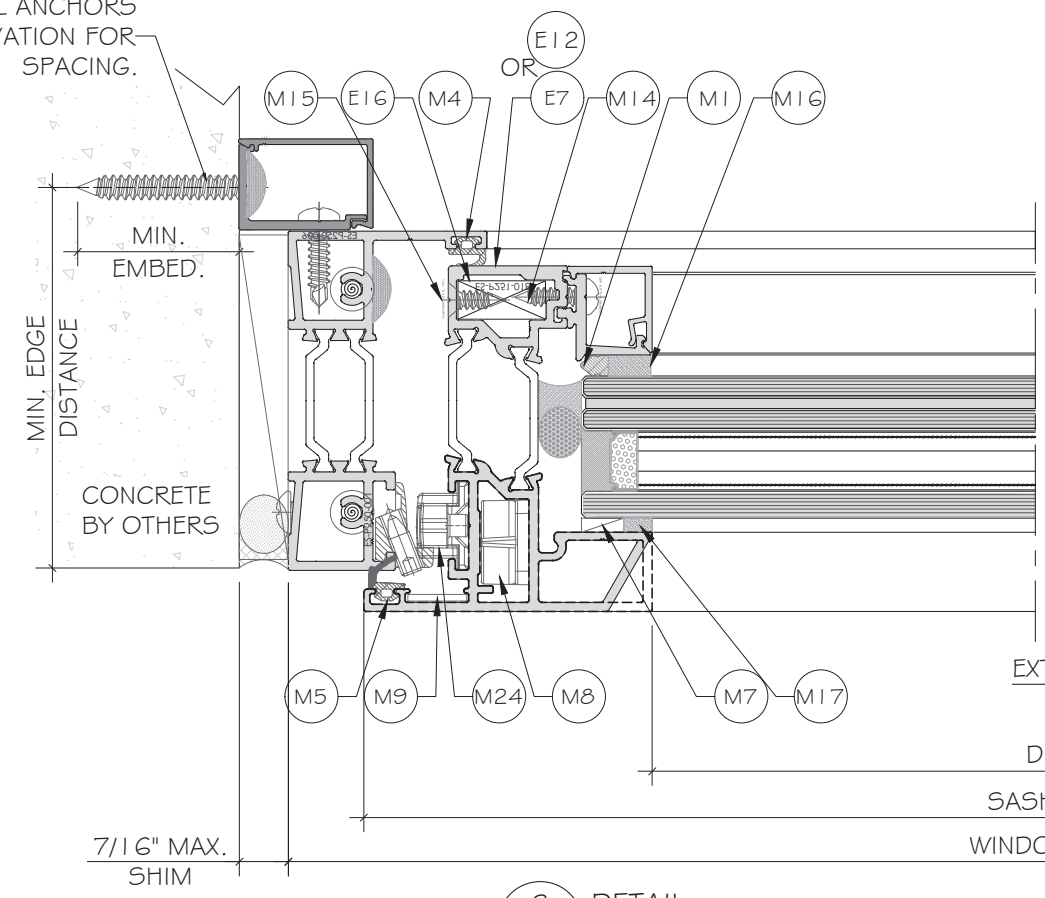
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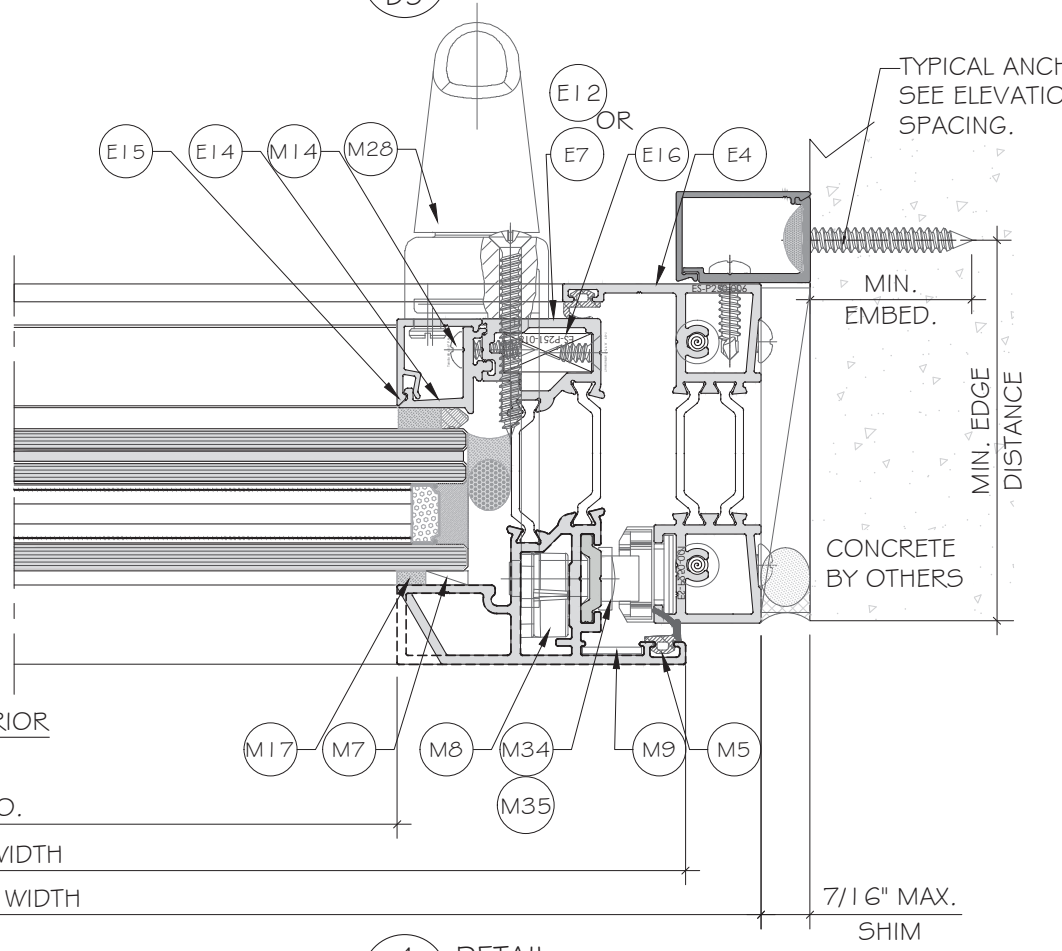
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DISTANCE
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CONCRETE
BY OTHERS



3 DETAIL
D5

TYPICAL ANCHORS
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SPACING.

MIN. EDGE
DISTANCE
MIN. EMBED.
CONCRETE
BY OTHERS



4 DETAIL
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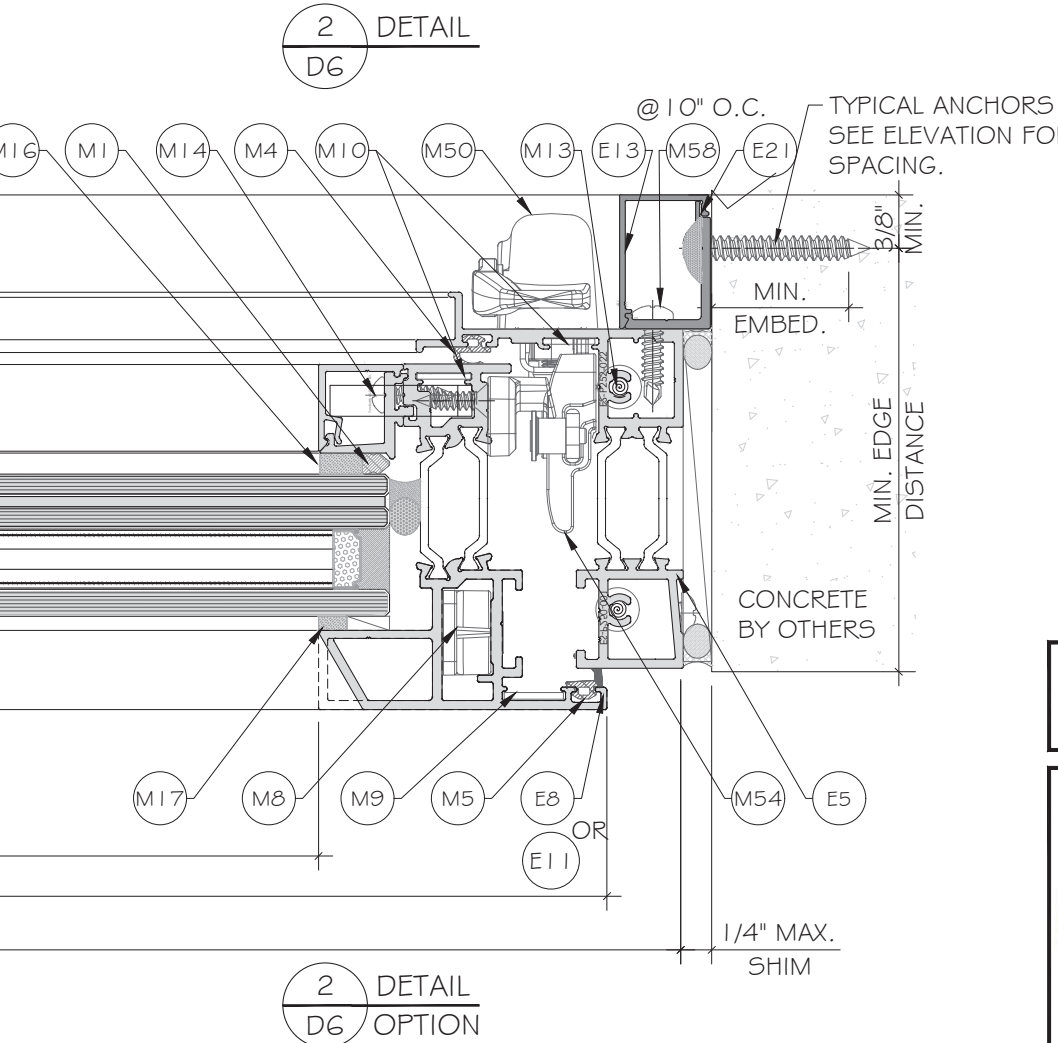
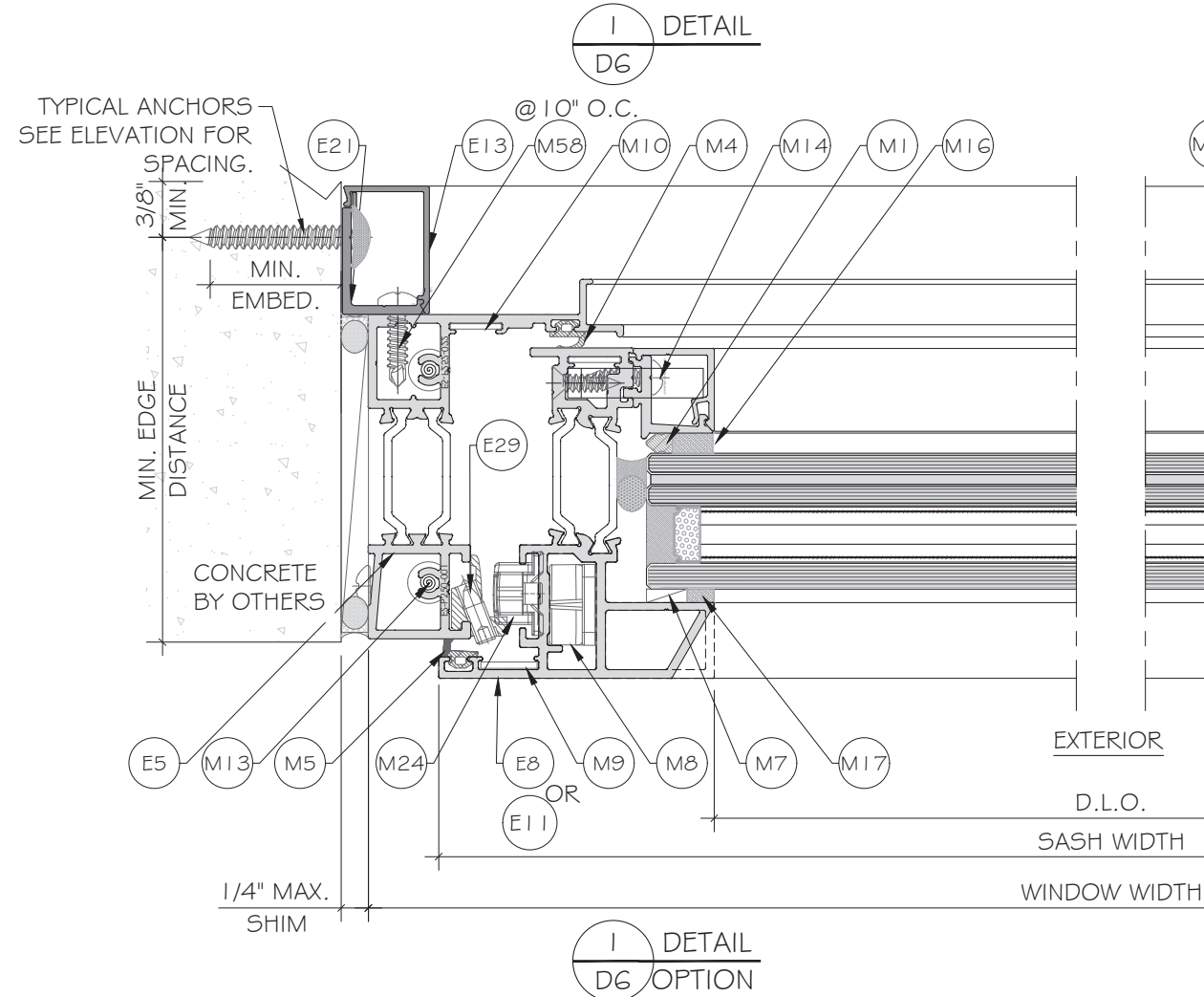
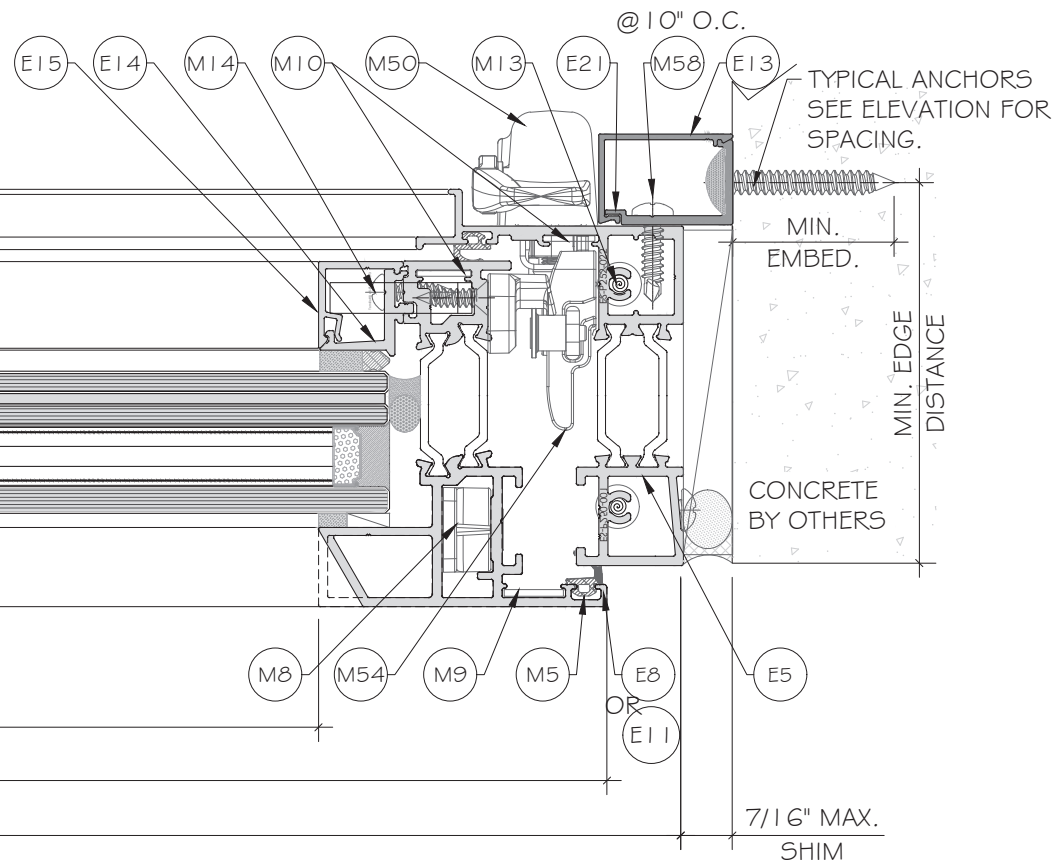
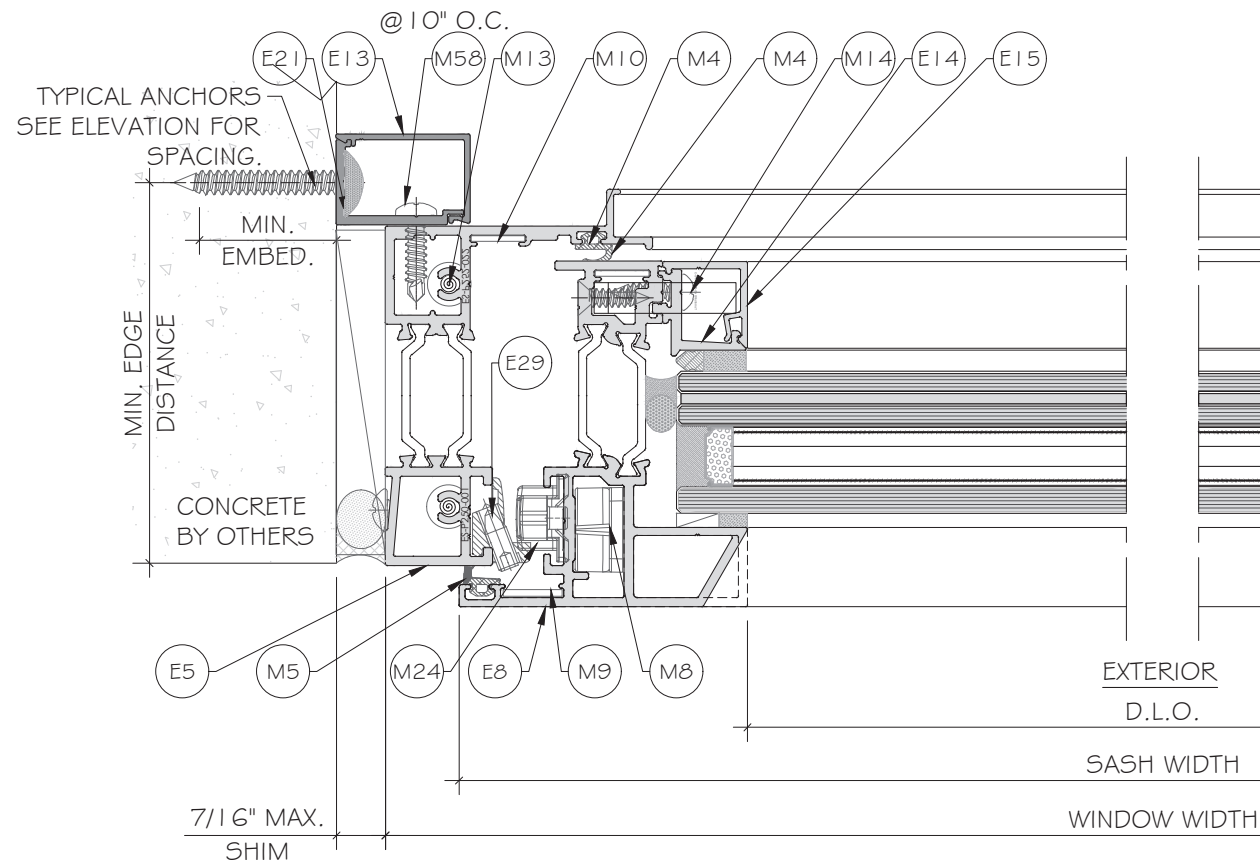
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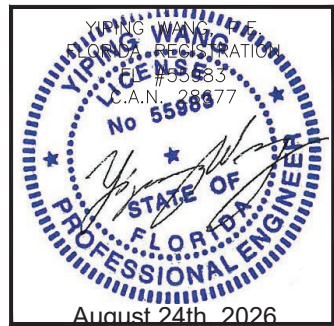
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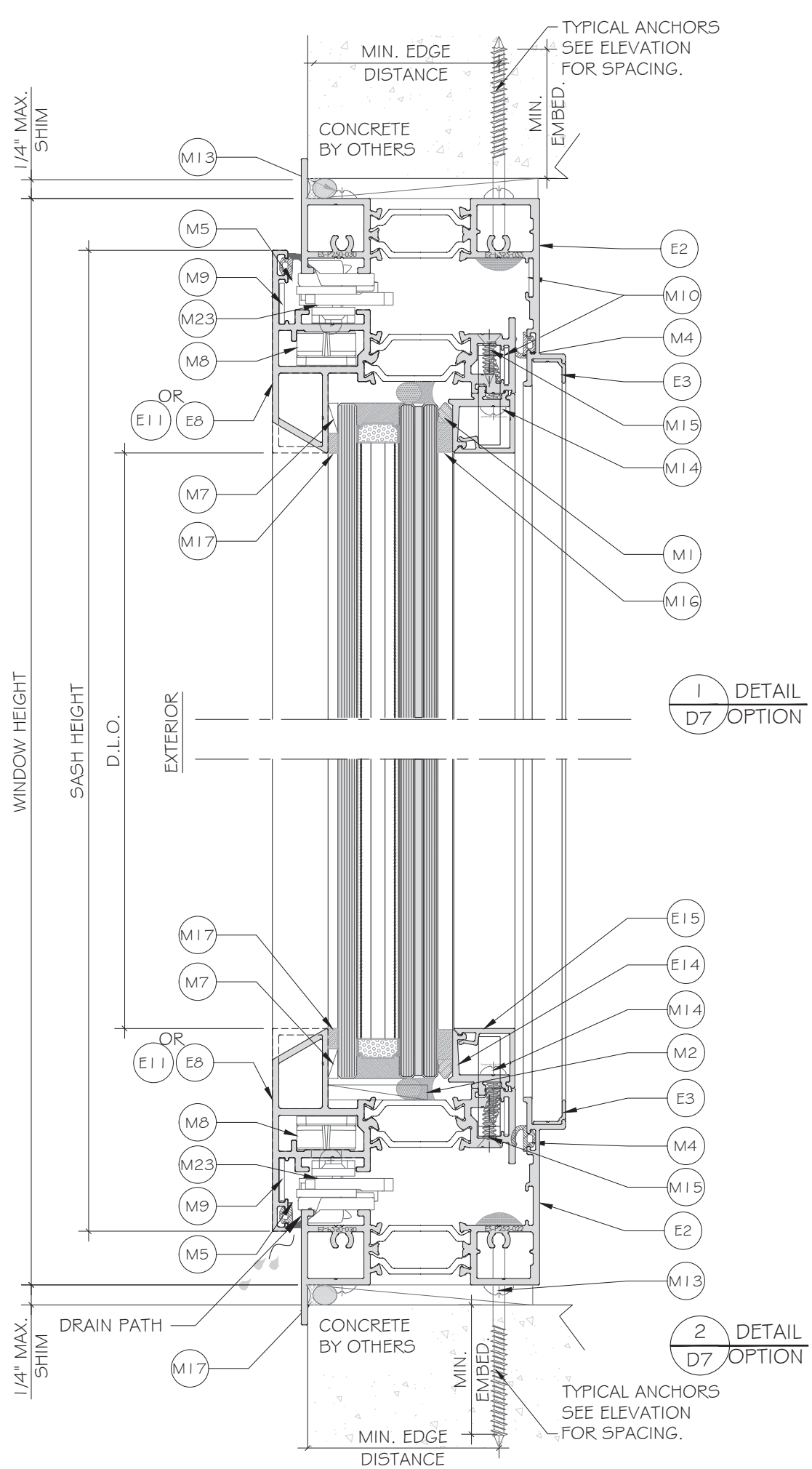
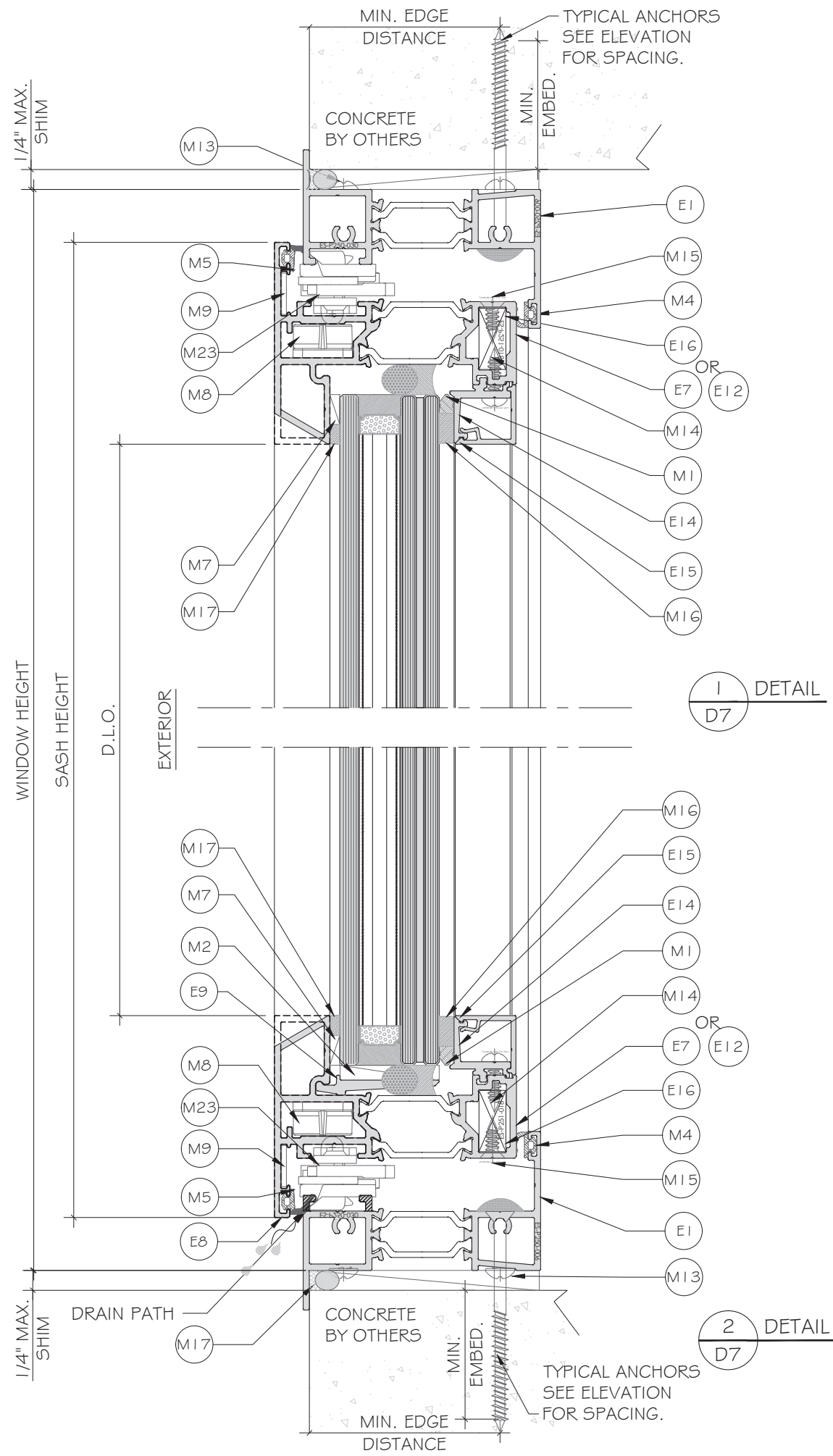


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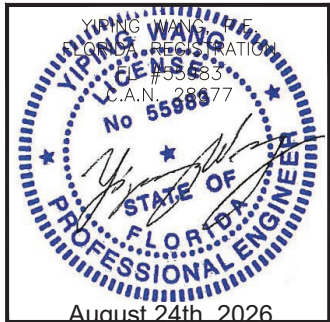
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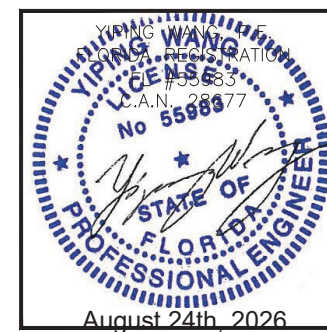
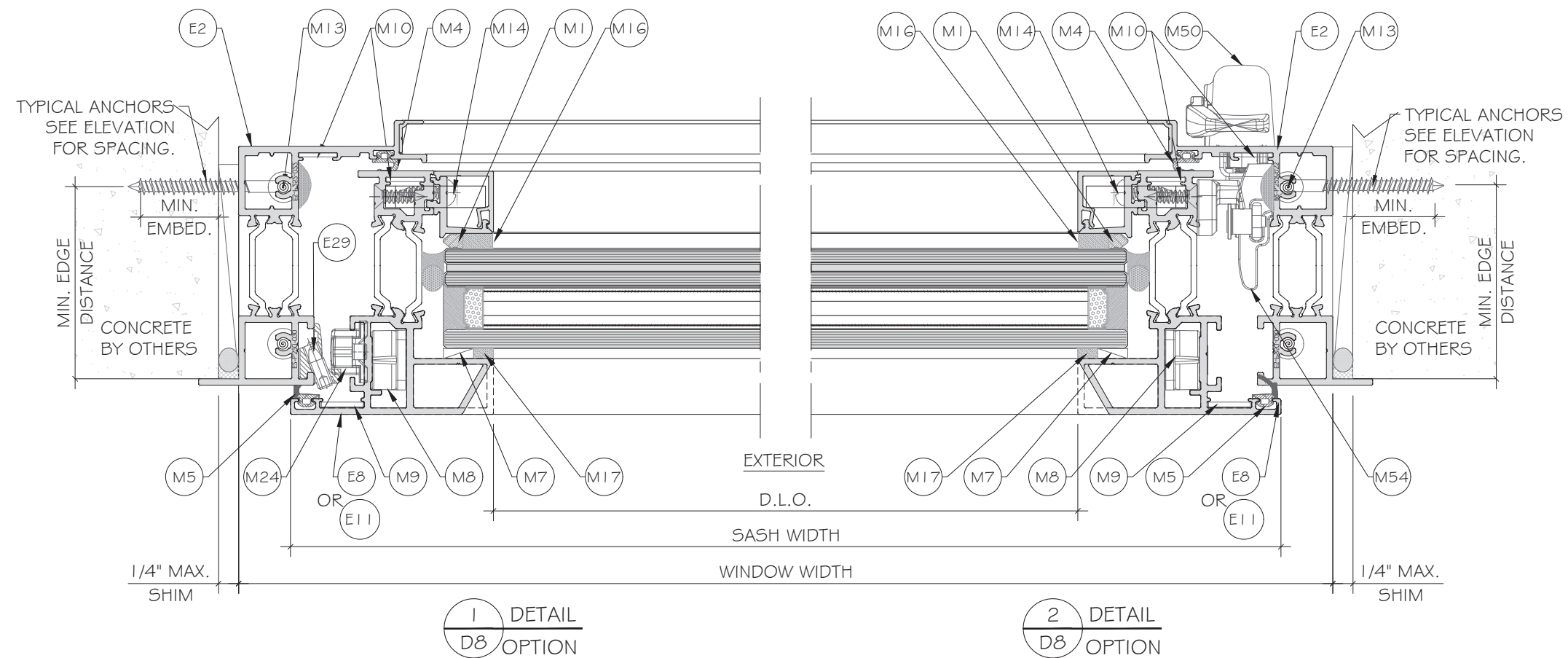
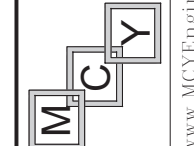
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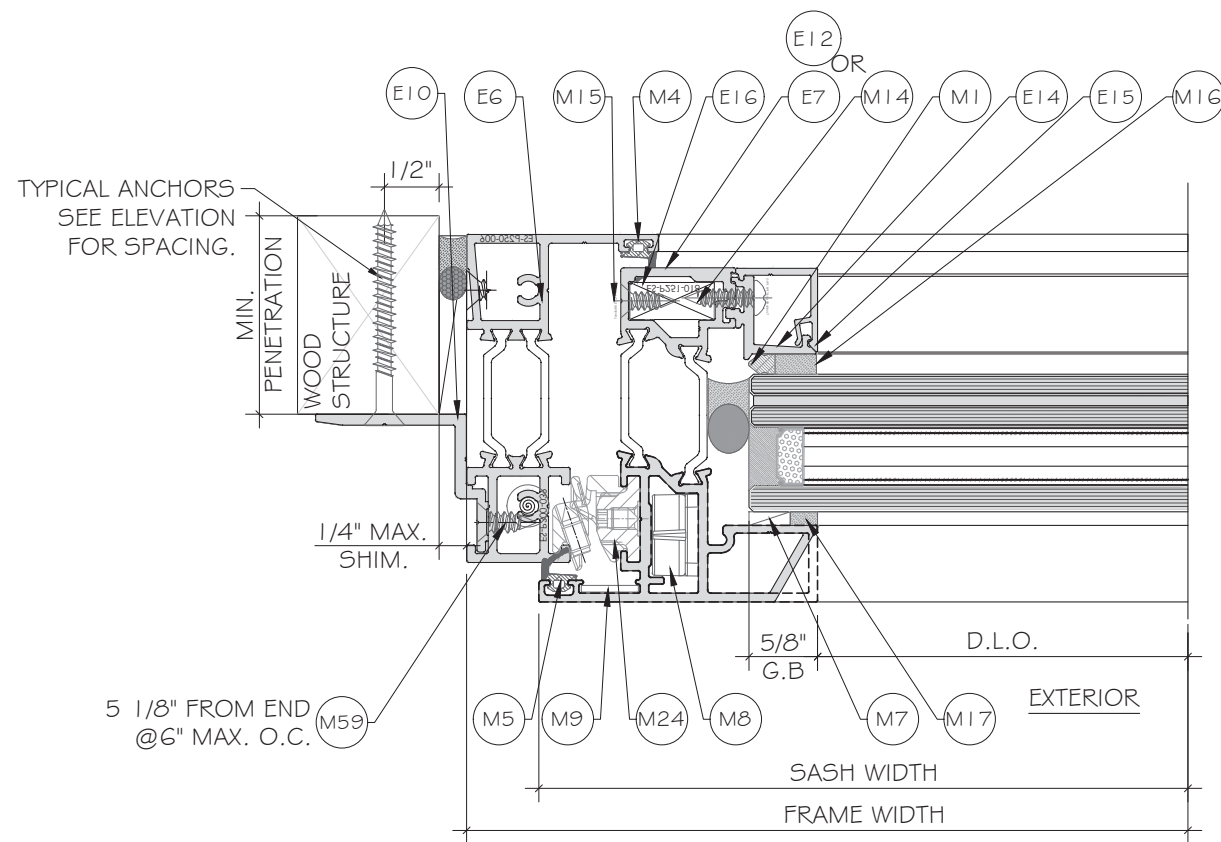
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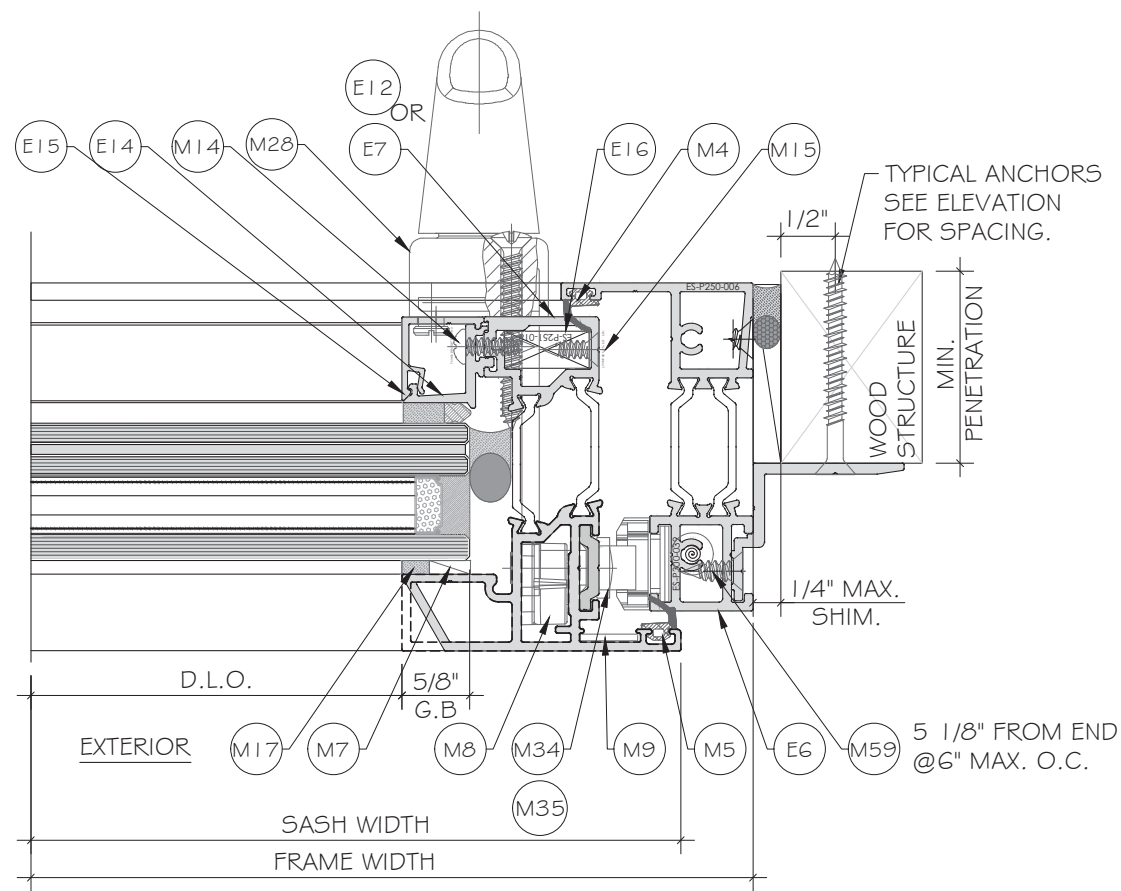
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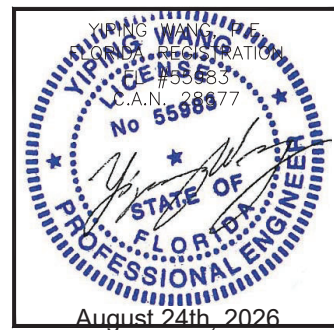


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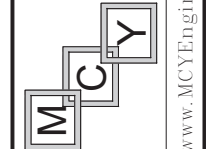
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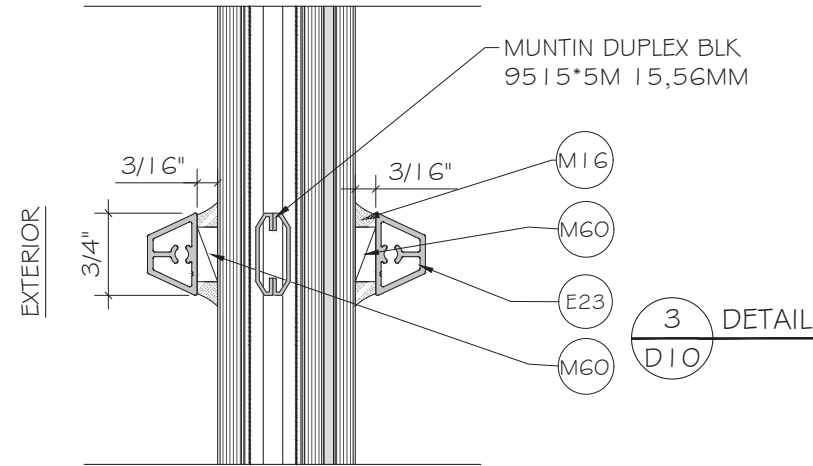
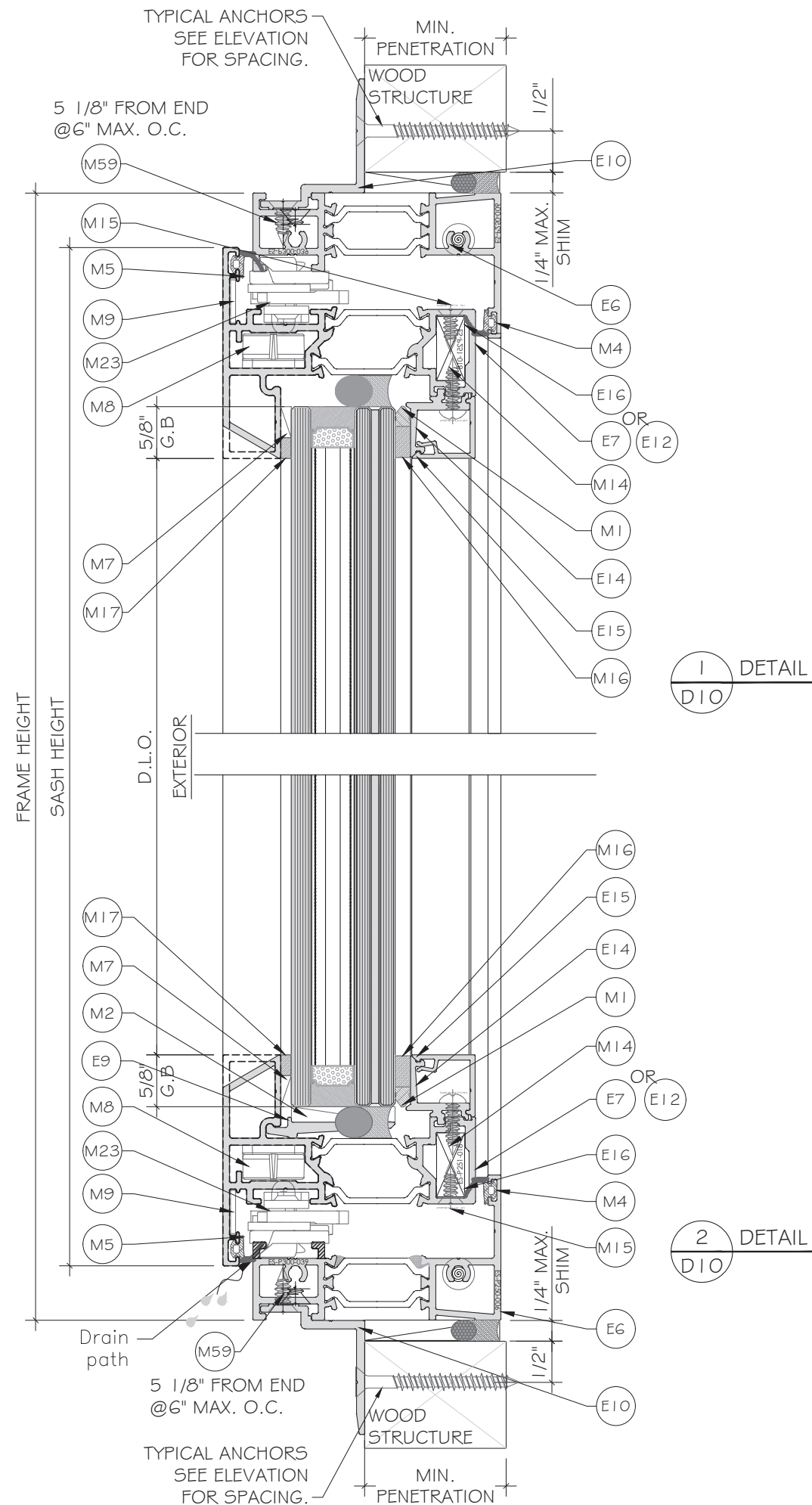
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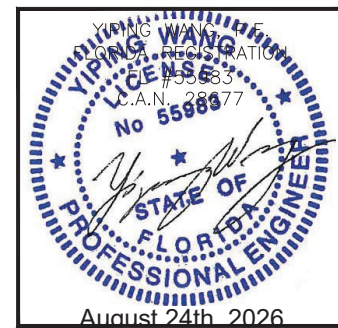


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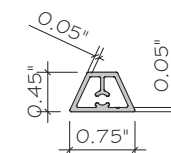
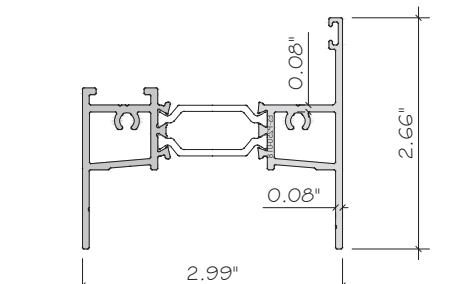
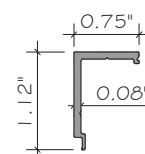
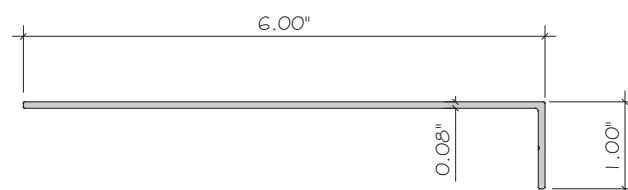
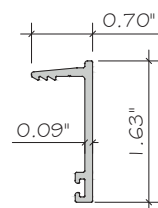
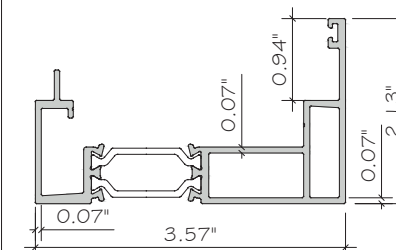
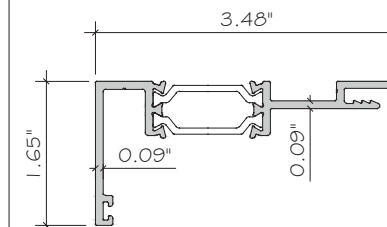
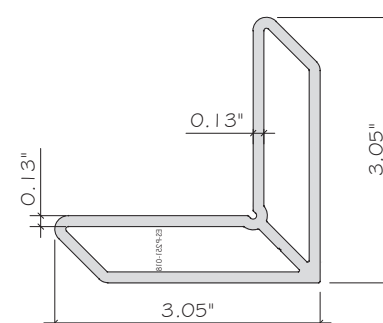
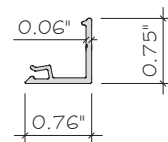
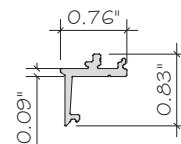
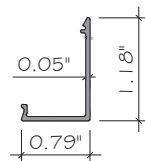
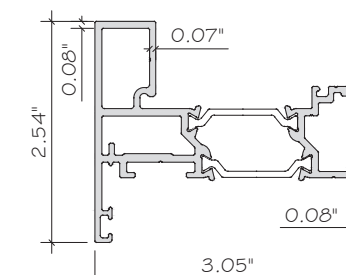
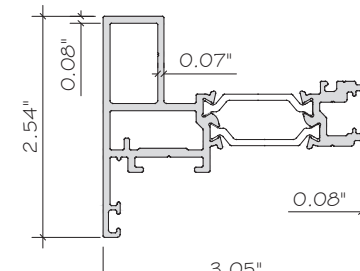
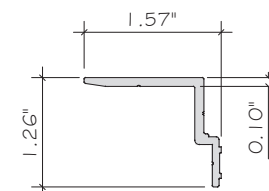
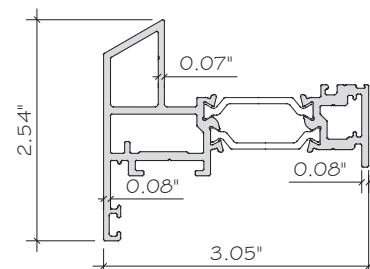
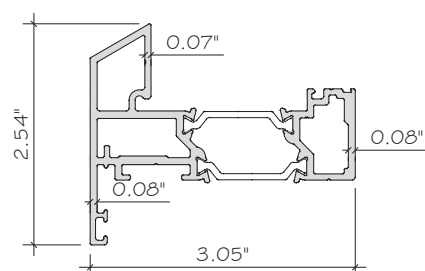
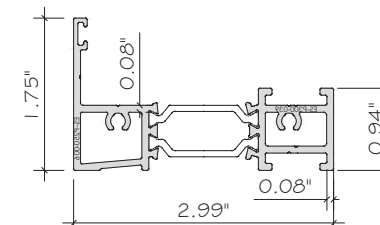
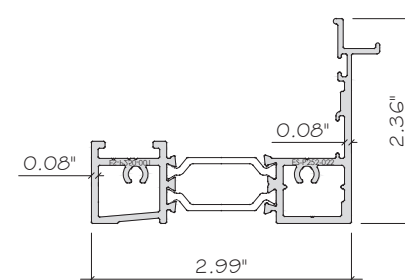
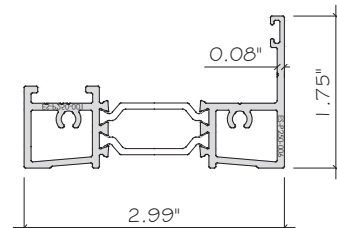
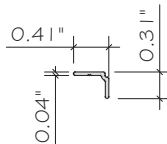
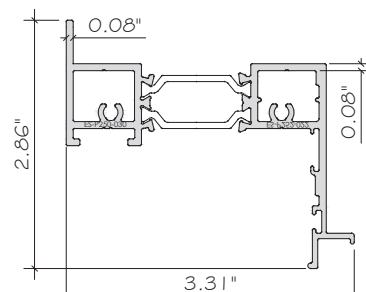
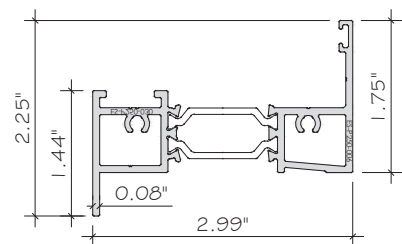


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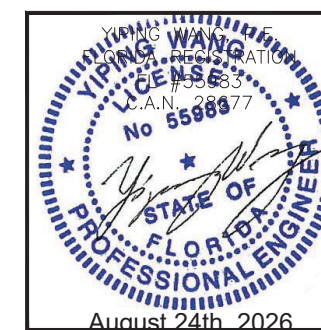
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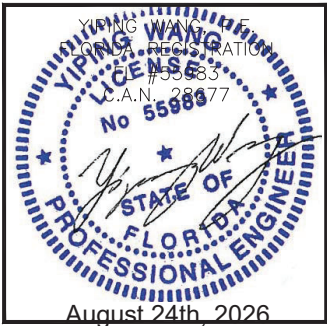
PARTS

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MATERIALLISTE			
CODE	PART	DESCRIPTION	MATERIAL
E1	ES-P300-531	FRAME FOR LEVER HANDLE WITH FLANGE	ALUMINUM 6063-T6
E2	ES-P300-532	FRAME FOR ROTO-OPERADOR WITH FLANGE	ALUMINUM 6063-T6
E3	ES-5020	SCREEN HOLDER	ALUMINUM 6063-T5
E4	ES-P300-504	FRAME FOR VENT	ALUMINUM 6063-T6
E5	ES-P300-505	FRAME FOR VENT (SCREEN)	ALUMINUM 6063-T6
E6	ES-P300-547	FRAME FOR LEVER HANDLE WITH FIN	ALUMINUM 6063-T6
E7	ES-P300-507	SASH	ALUMINUM 6063-T6
E8	ES-P300-508	SASH (SCREEN)	ALUMINUM 6063-T6
E9	ES-P300-002	SETTING CHAIR	ALUMINUM 6063-T6
E10	ES-P300-040	FIN	ALUMINUM 6063-T6
E11	ES-P300-603	SQUARE BEAD SASH	ALUMINUM 6063-T6
E12	ES-P300-602	SQUARE BEAD SASH	ALUMINUM 6063-T6
E13	ES-P300-007	STRAP ANCHOR COVER	ALUMINUM 6063-T5
E14	ES-P300-015	IMPACT GLASS STOP @SASH	ALUMINUM 6063-T6
E15	ES-P300-016	IMPACT GLASS STOP COVER @SASH	ALUMINUM 6063-T5
E16	ES-P251-018	CORNER JOINT	ALUMINUM 6063-T6
E17	ES-P300-523	RECEPTOR HEAD/JAMB	ALUMINUM 6063-T6
E18	ES-P300-524	RECEPTOR SILL	ALUMINUM 6063-T6
E19	ES-P300-021	RECEPTOR STOP	ALUMINUM 6063-T6
E20	ES-CF-001	END DAM	ALUMINUM 6063-T5
E21	ES-P300-006	STRAP ANCHOR	ALUMINUM 6005-T5
E22	ES-P300-519	VENT HEAD/JAMB FOR RECEPTOR	ALUMINUM 6063-T6
E23	ES-H400-019	CENTRAL MUTIN	ALUMINUM 6063-T5

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