

ES-5600

PROJECT-OUT ALUMINUM WINDOW (S.M.I.)

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF P.O./P.O. OR PROJECT OUT WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

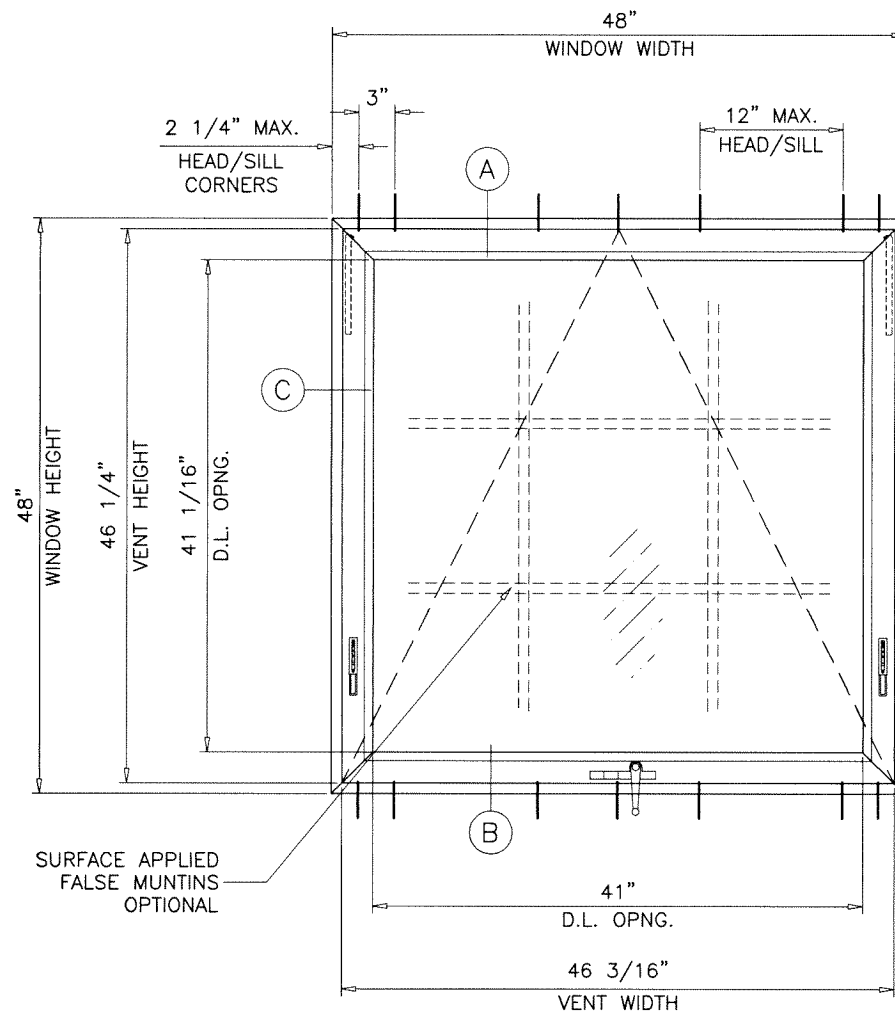
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

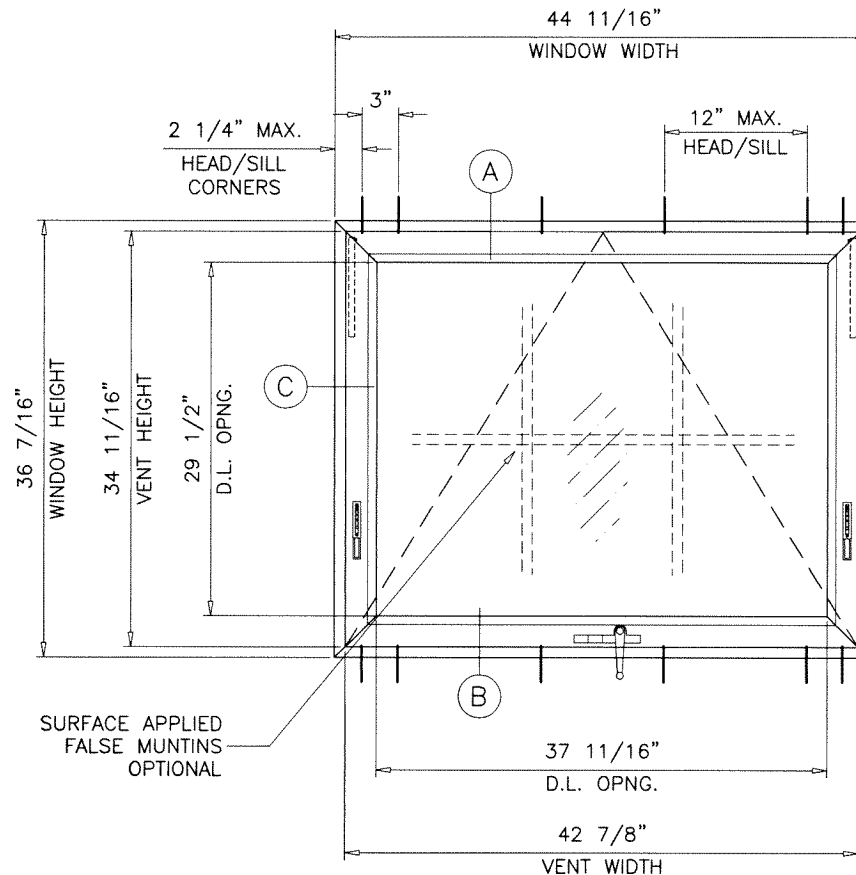
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.



TYPICAL ELEVATION

GLASS TYPES 'A' & 'B'

MAXIMUM DESIGN LOAD RATING = + 100.0 PSF
(FOR SIZE SHOWN ABOVE OR SMALLER) - 125.0 PSF



TYPICAL ELEVATION

GLASS TYPES 'C' & 'D'

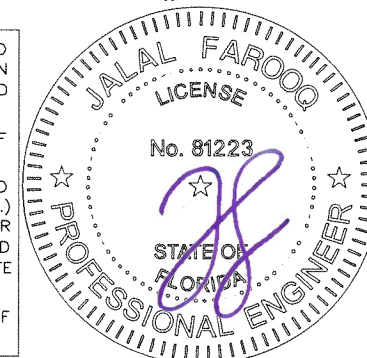
MAXIMUM DESIGN LOAD RATING = + 100.0 PSF
(FOR SIZE SHOWN ABOVE OR SMALLER) - 110.0 PSF

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT.
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS REQUIRED
FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

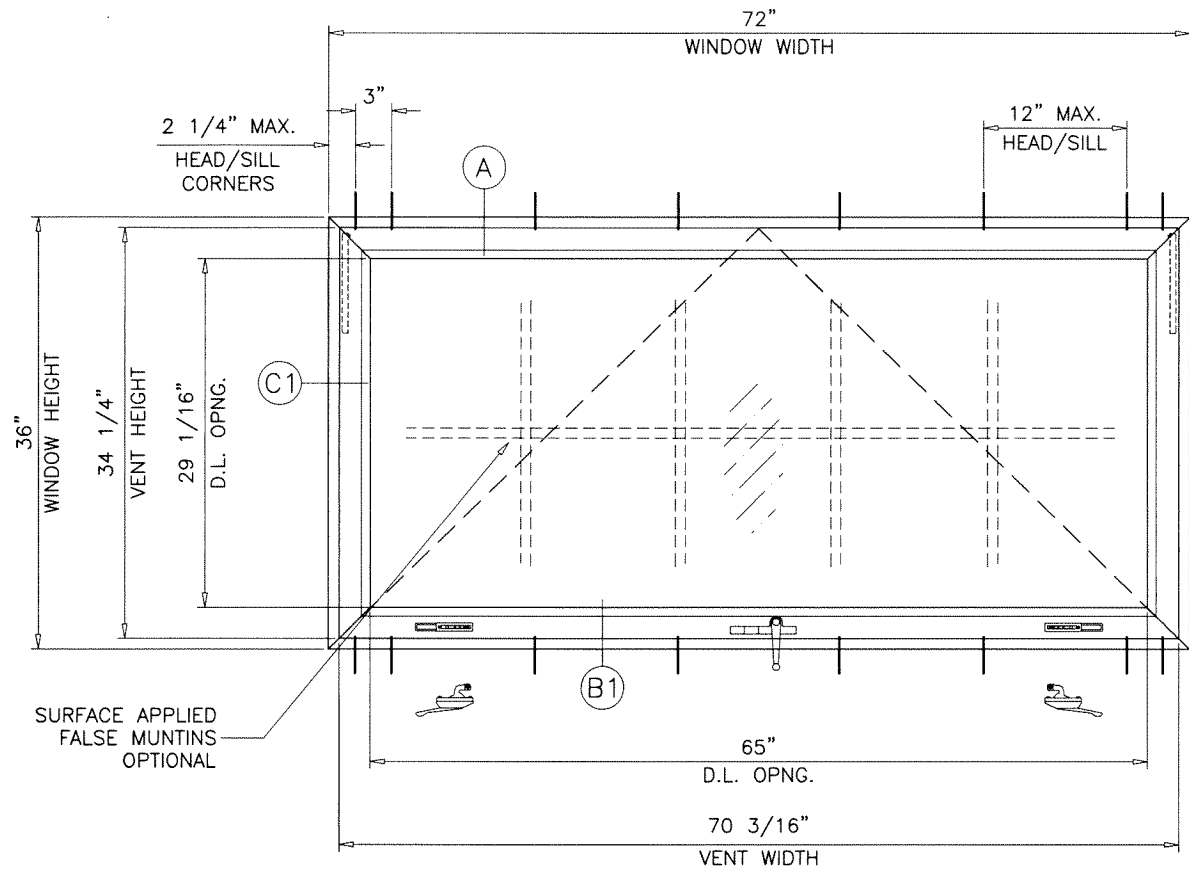
WINDOWS SHOWN ON THIS SHEET ONLY, WITH GLASS TYPES
'A' & 'B' COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.
SAFEGUARD REQUIREMENTS TO BE VERIFIED.

Sealed: 7/25/2023 FL #22266

A- 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.
B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
C- 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. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



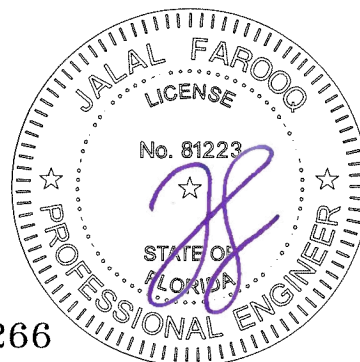
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AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978	
COMP-ANL\W16-67ES	
ES-5600 PROJECT-OUT ALUMINUM WDW. (S.M.I.)	
E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
revisions:	no. date by description
	A 04.05.18 UPDATED TO 2017 FBC
	B 02.11.20 NEW TESTS ADDED
	C 11.06.20 UPDATED TO 2020 FBC
	D 07.25.23 UPDATED TO 2023 FBC
date:	10-27-16
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drawing no.	W16-67
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TYPICAL ELEVATION

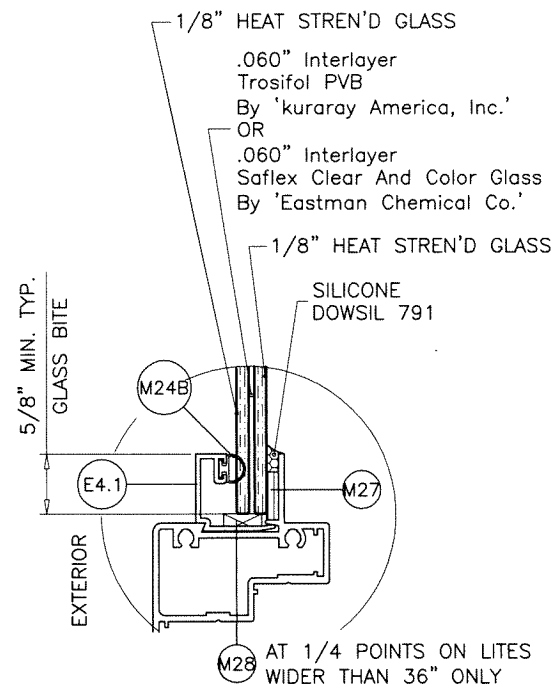
GLASS TYPES 'A', 'C1' & 'D1'
 MAXIMUM DESIGN LOAD RATING = + 100.0 PSF
 (FOR SIZE SHOWN ABOVE OR SMALLER) - 110.0 PSF

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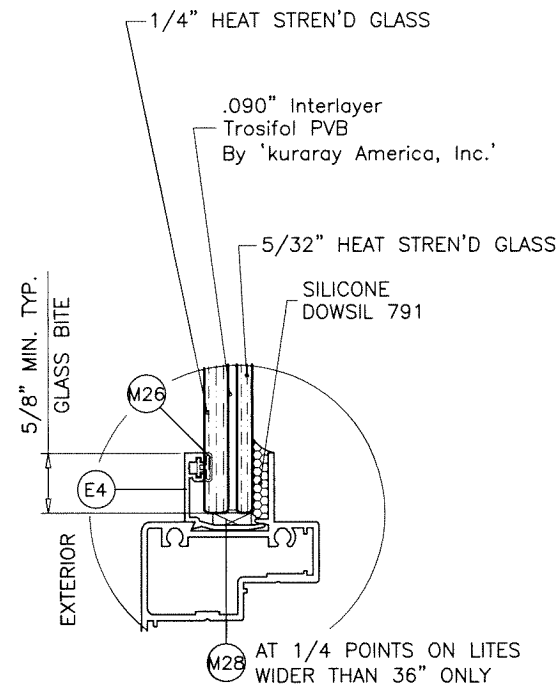


FL #22266

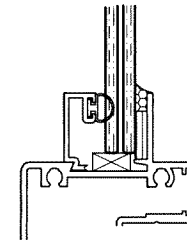
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 (C.A.N. 3538)		COMP-ANL \ W16-67ES
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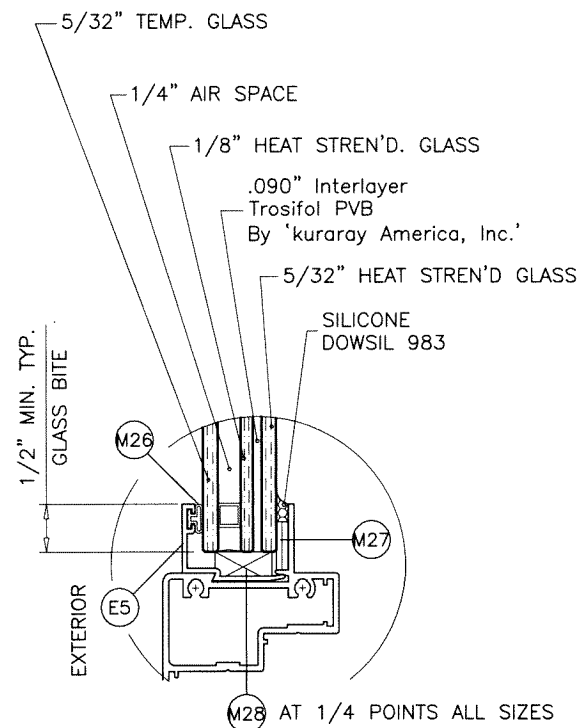
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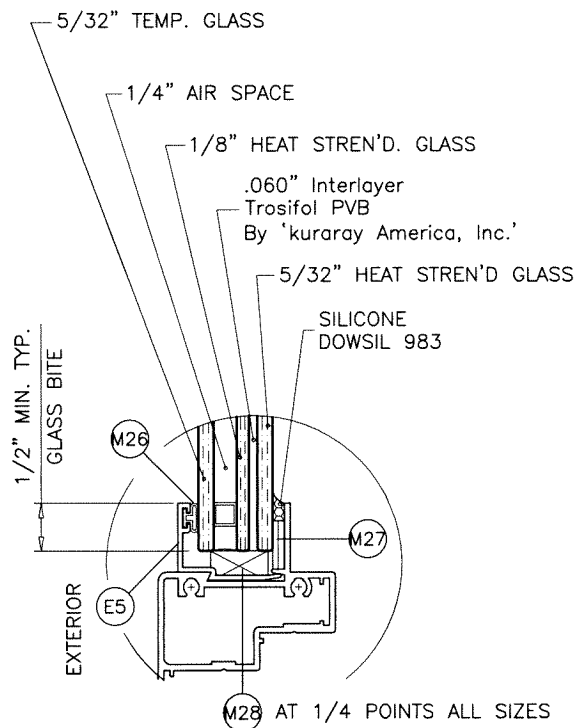
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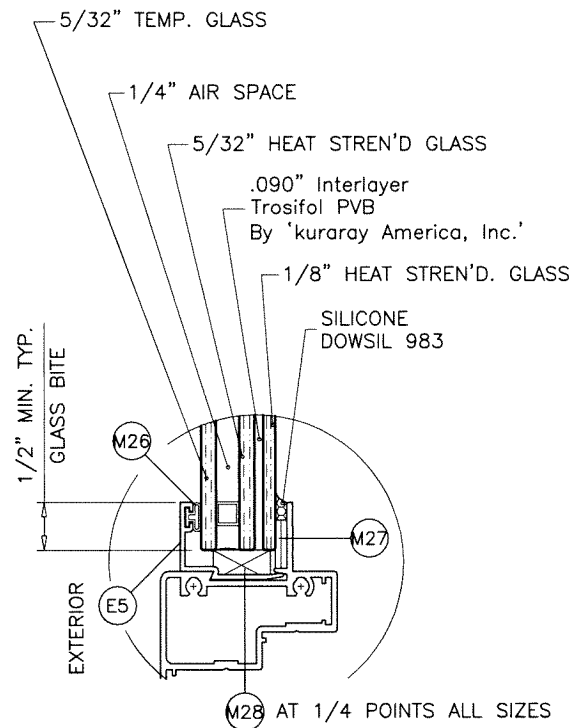
SETTING BLOCKS AT LAM. GLASS
NOTCH GLAZING BEAD LEG
TO CLEAR BLOCKS



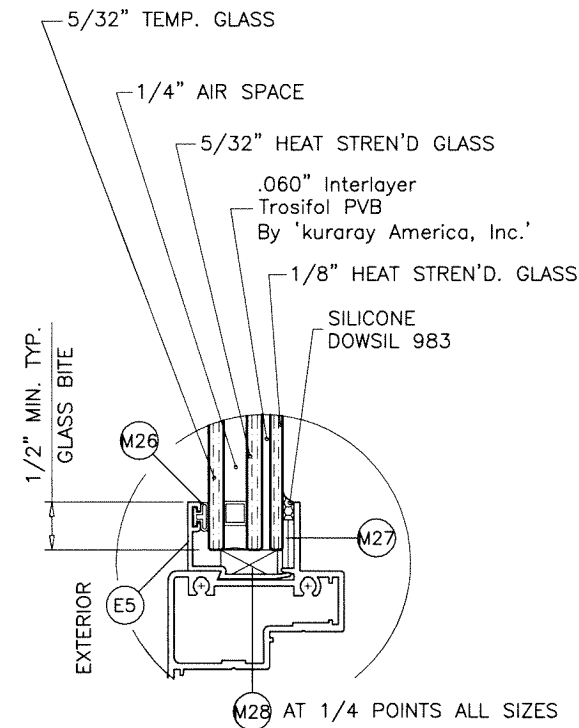
GLASS TYPE 'C'



GLASS TYPE 'C1'

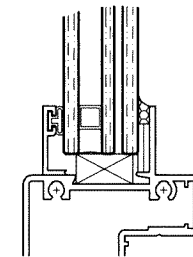


GLASS TYPE 'D'



GLASS TYPE 'D1'

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SETTING BLOCKS AT INSUL. LAM. GLASS
NOTCH GLAZING BEAD LEG
TO CLEAR BLOCKS

1/4" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

GLAZING OPTIONS



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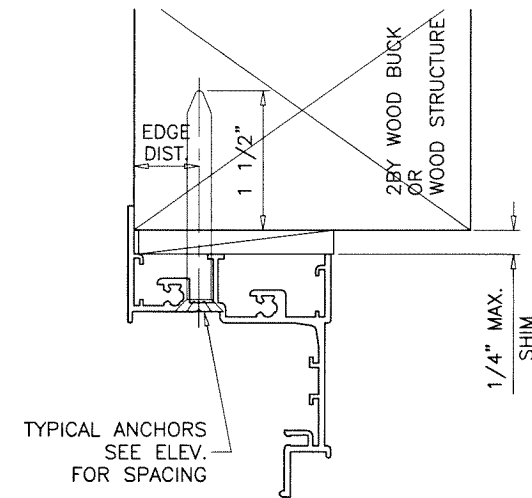
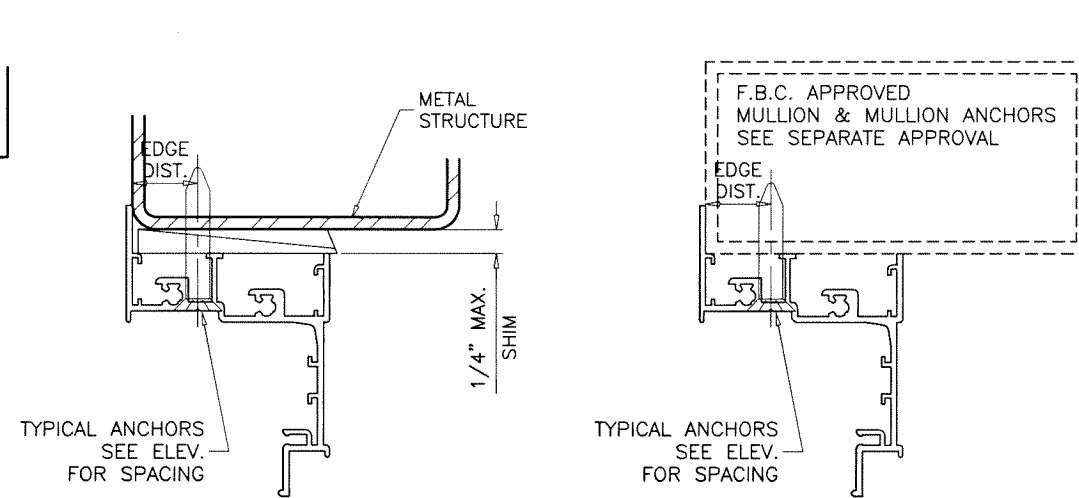
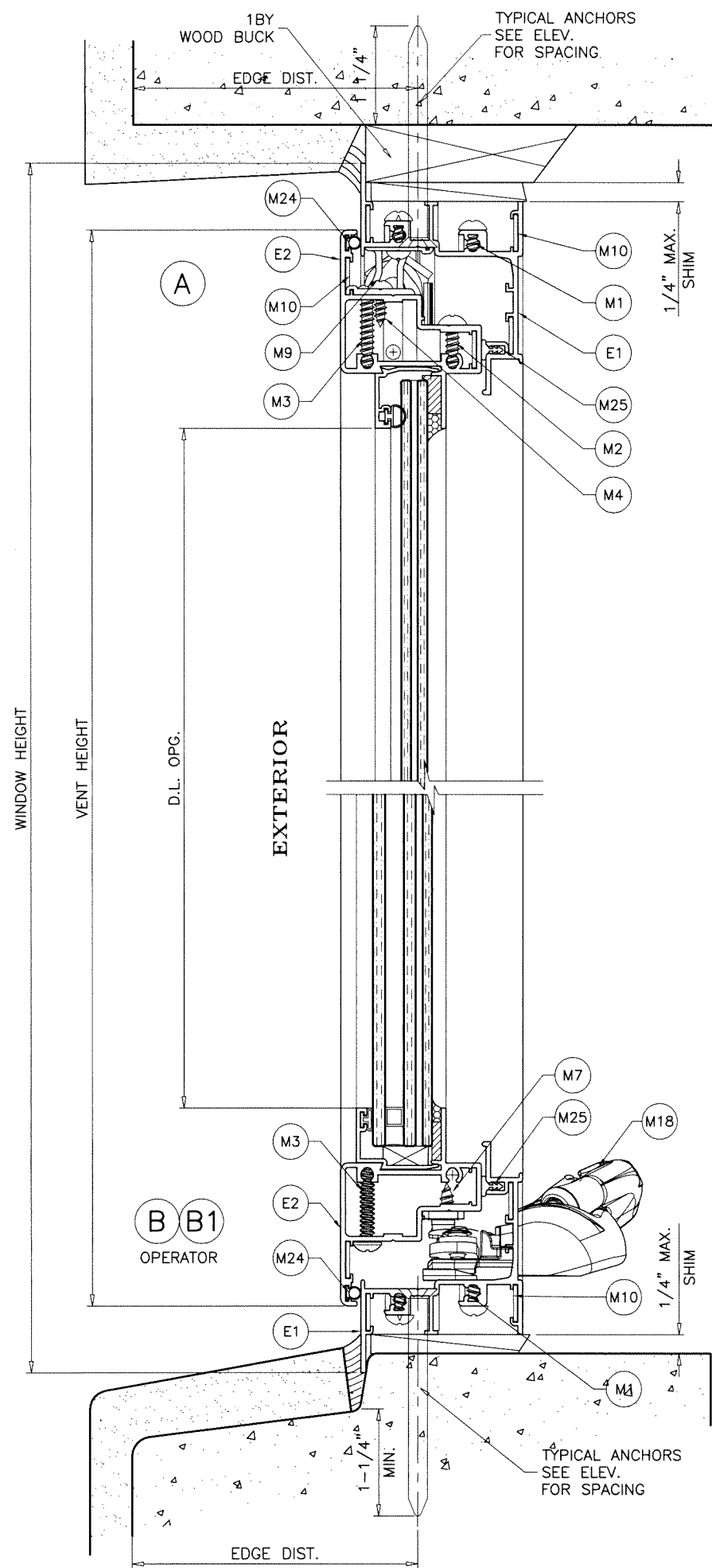
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E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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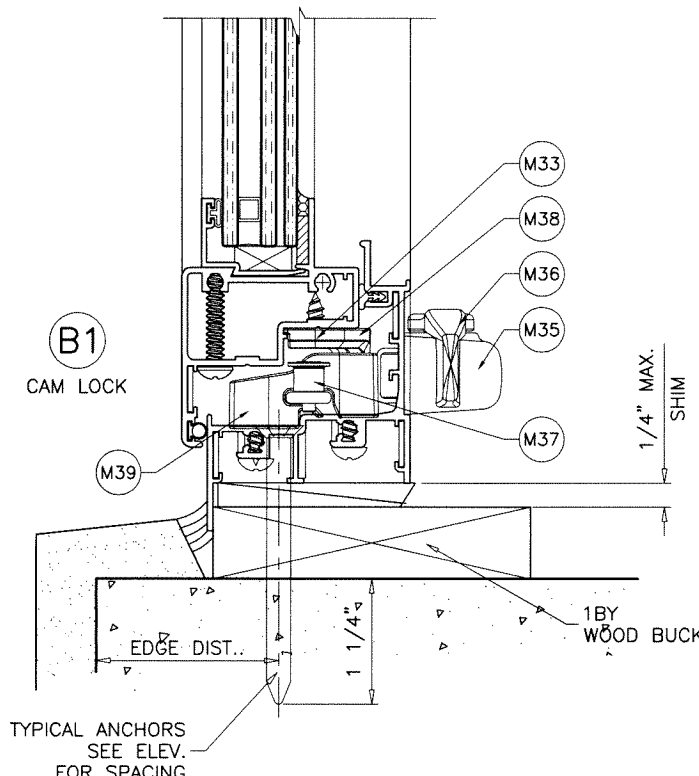
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WOOD BUCKS AND METAL STRUCTURE NOT BY 'E.S. WDW.'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL)
 THRU 1BY BUCKS INTO CONCRETE
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
 DIRECTLY INTO CONCRETE
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/SILL)
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
 INTO CONCRETE = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 11/16" MIN.
 INTO METAL STRUCTURE = 11/16" MIN.
 WOOD AT HEAD OR SILL SG = 0.55 MIN.
 CONCRETE AT HEAD OR SILL $f'_c = 3000$ PSI MIN.



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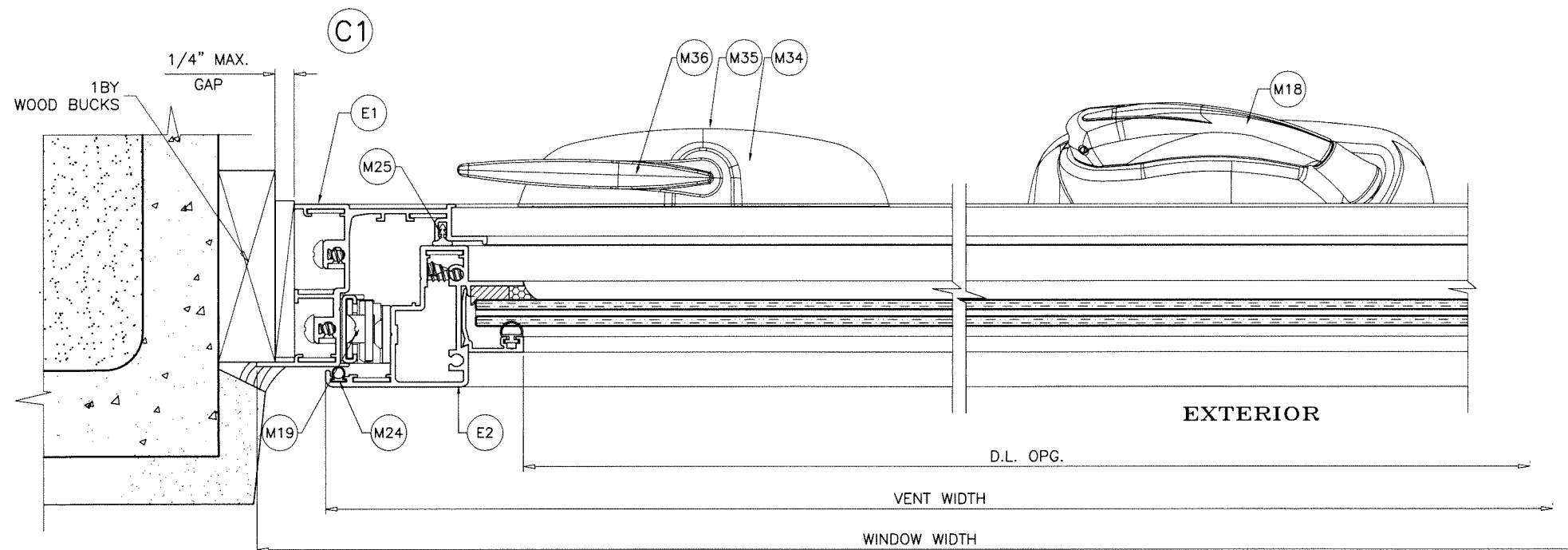
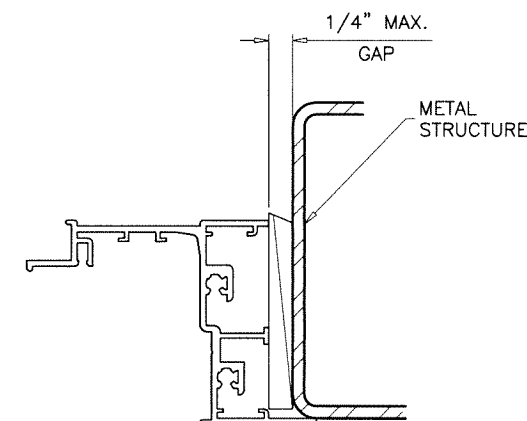
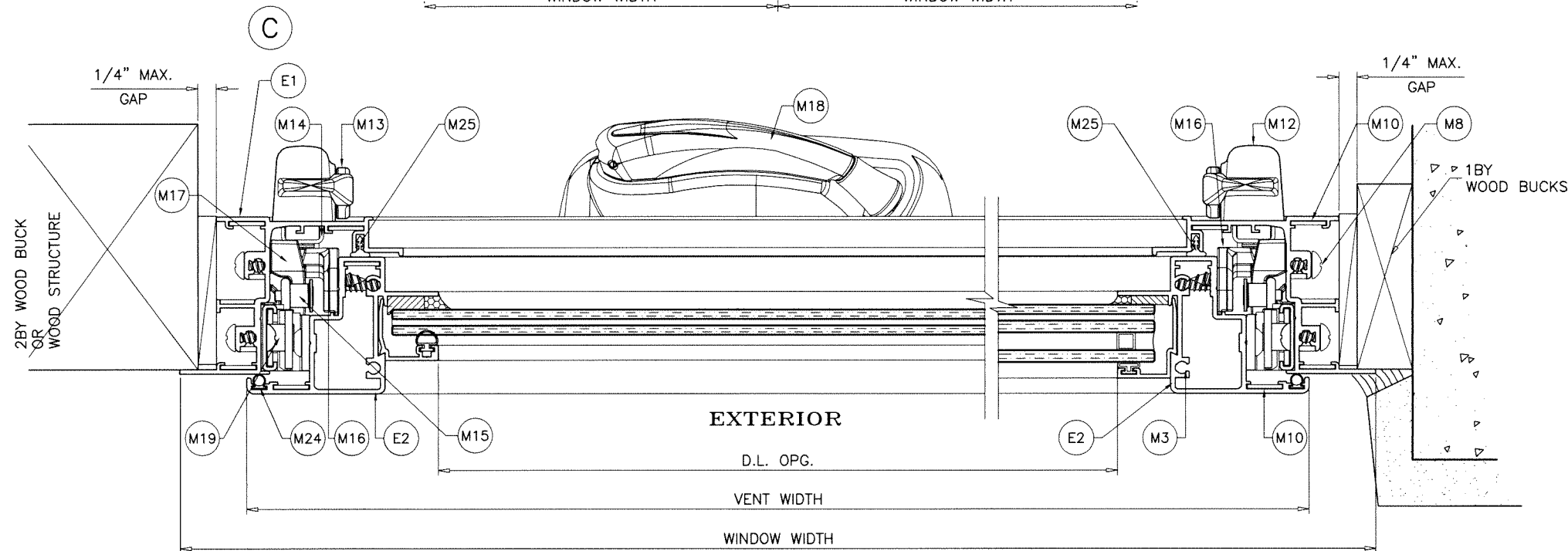
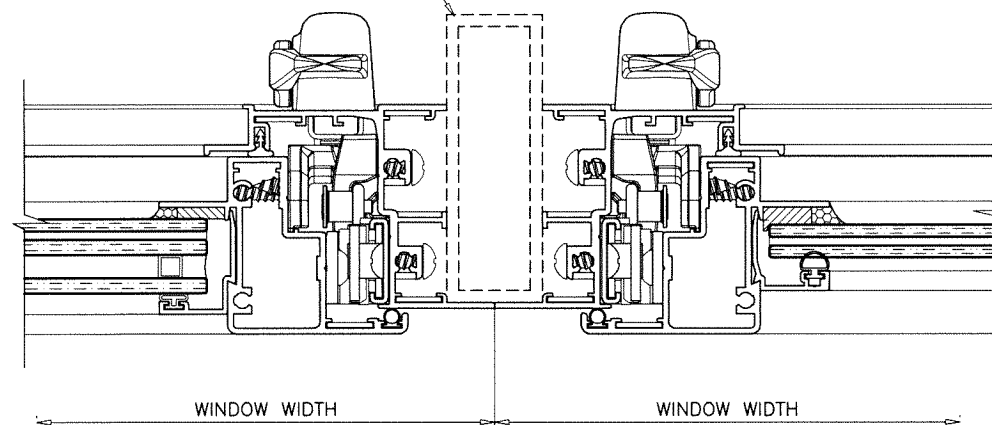
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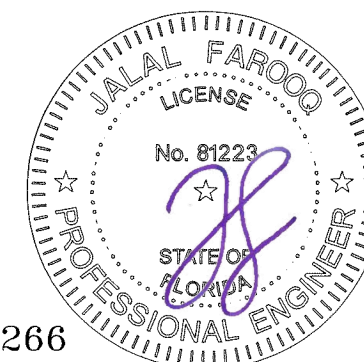
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F.B.C.
APPROVED MULLION
SEE SEPARATE APPROVAL



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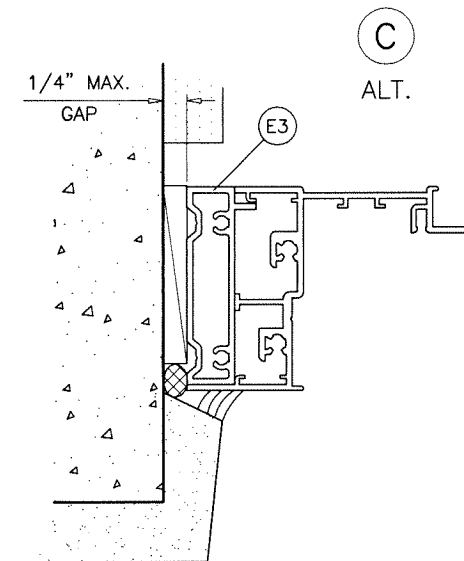
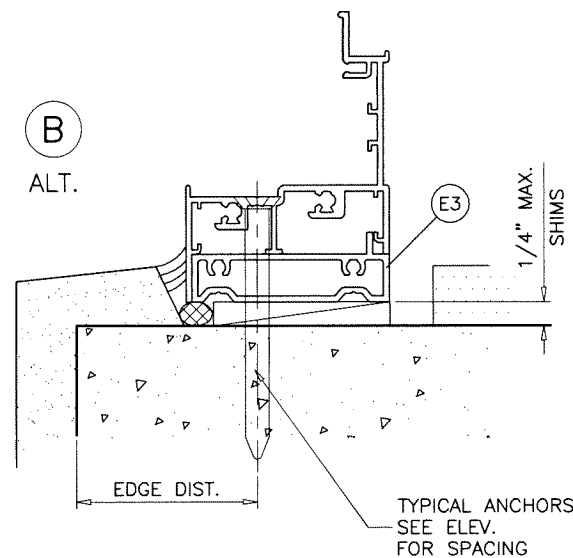
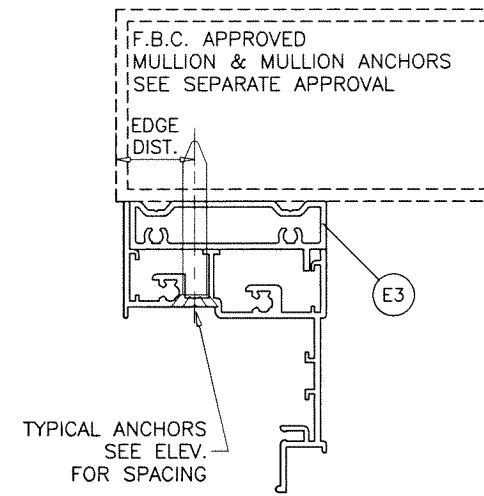
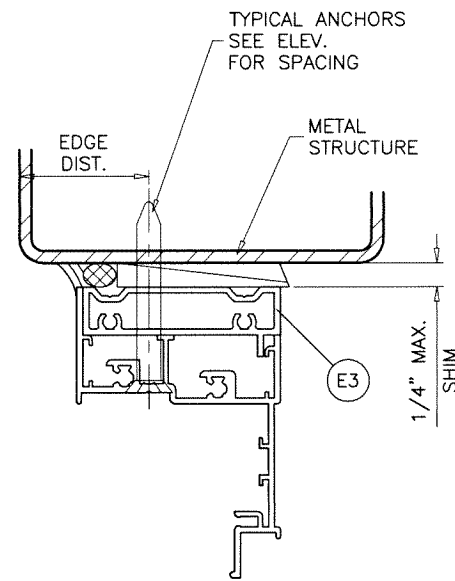
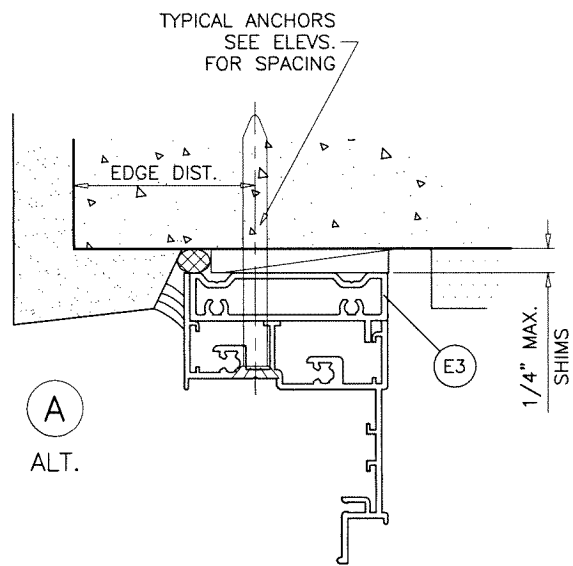
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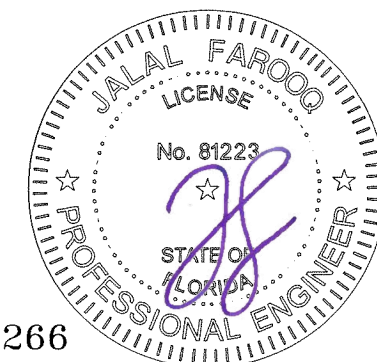
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INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

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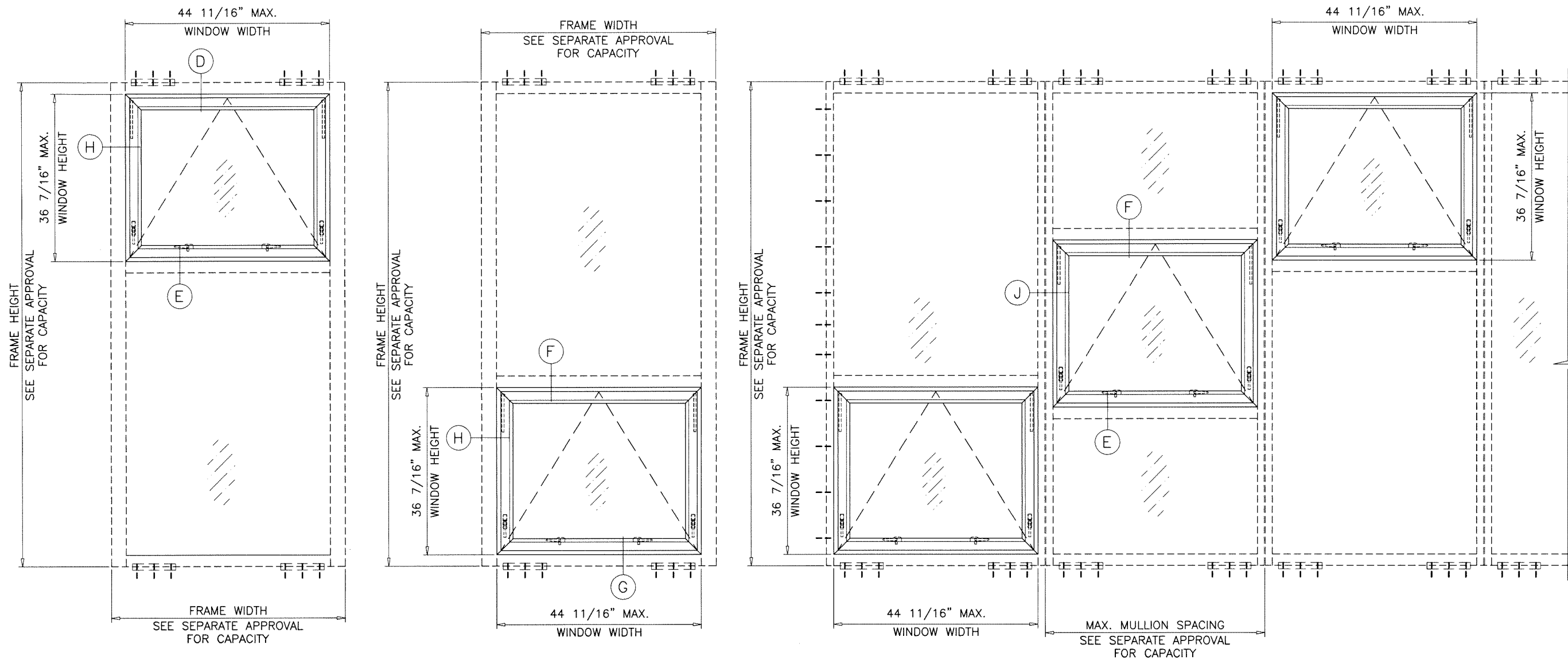
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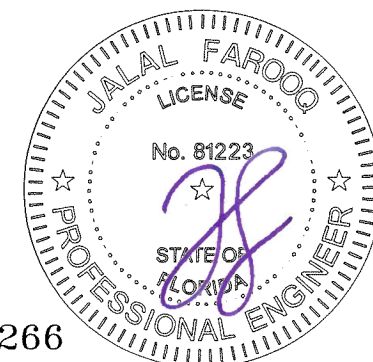
APPROVED CONFIGURATIONS
PROJECT-OUT WINDOWS WITHIN ES-7100 WINDOW WALL SYSTEM

MAXIMUM DESIGN LOAD RATING = + 100.0 PSF
(FOR WINDOW SIZES SHOWN ABOVE - 110.0 PSF
OR SMALLER
WITHIN WINDOW WALL SYSTEM)

SEE SEPARATE APPROVAL FOR ES-7100 WINDOW WALL SYSTEM
DESIGN LOADS AND ANCHORS.

LOWER VALUES FROM PROJECTED WINDOW CAPACITY
OR WINDOW WALL SYSTEM APPROVAL WILL APPLY TO ENTIRE SYSTEM.

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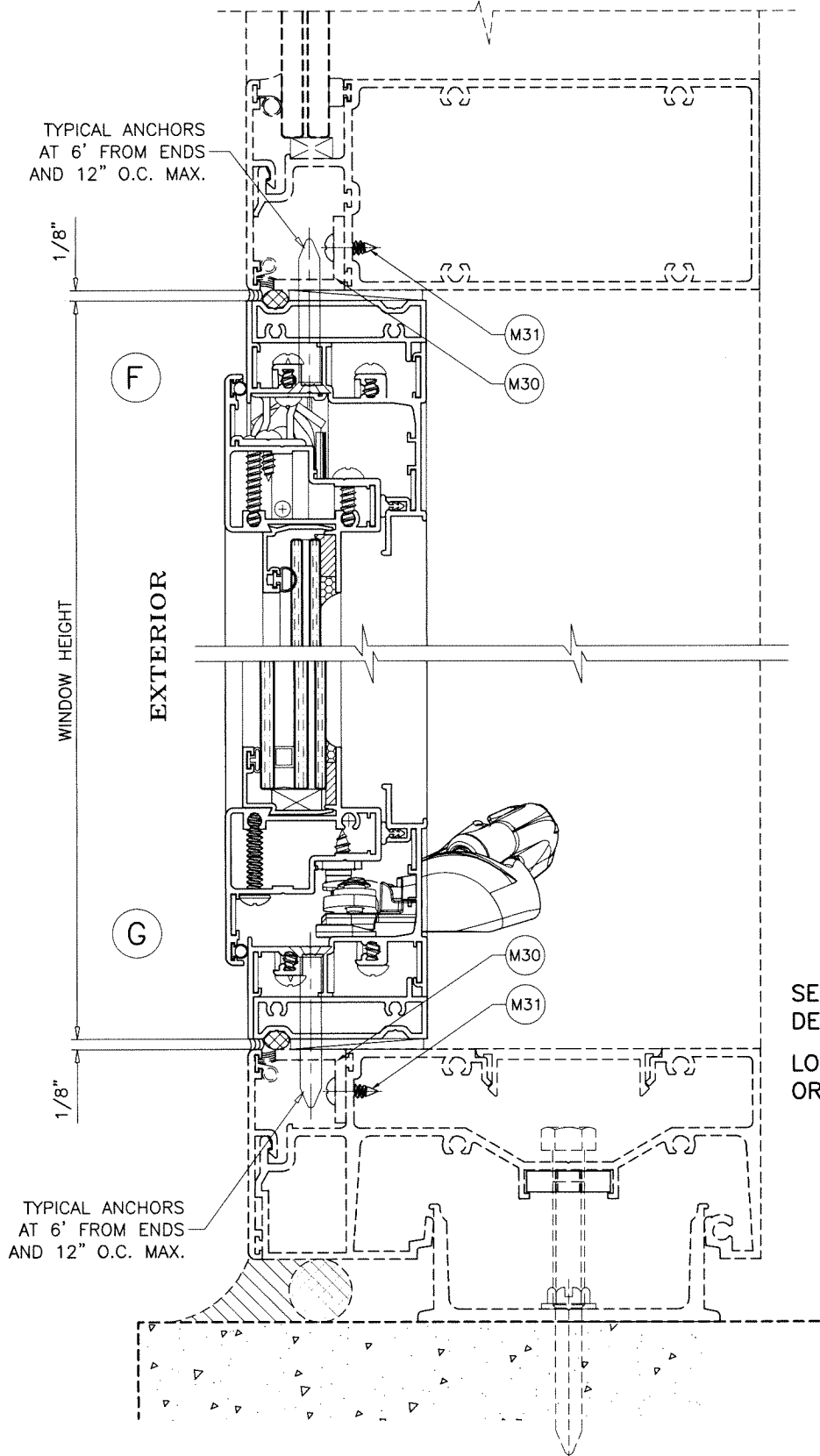
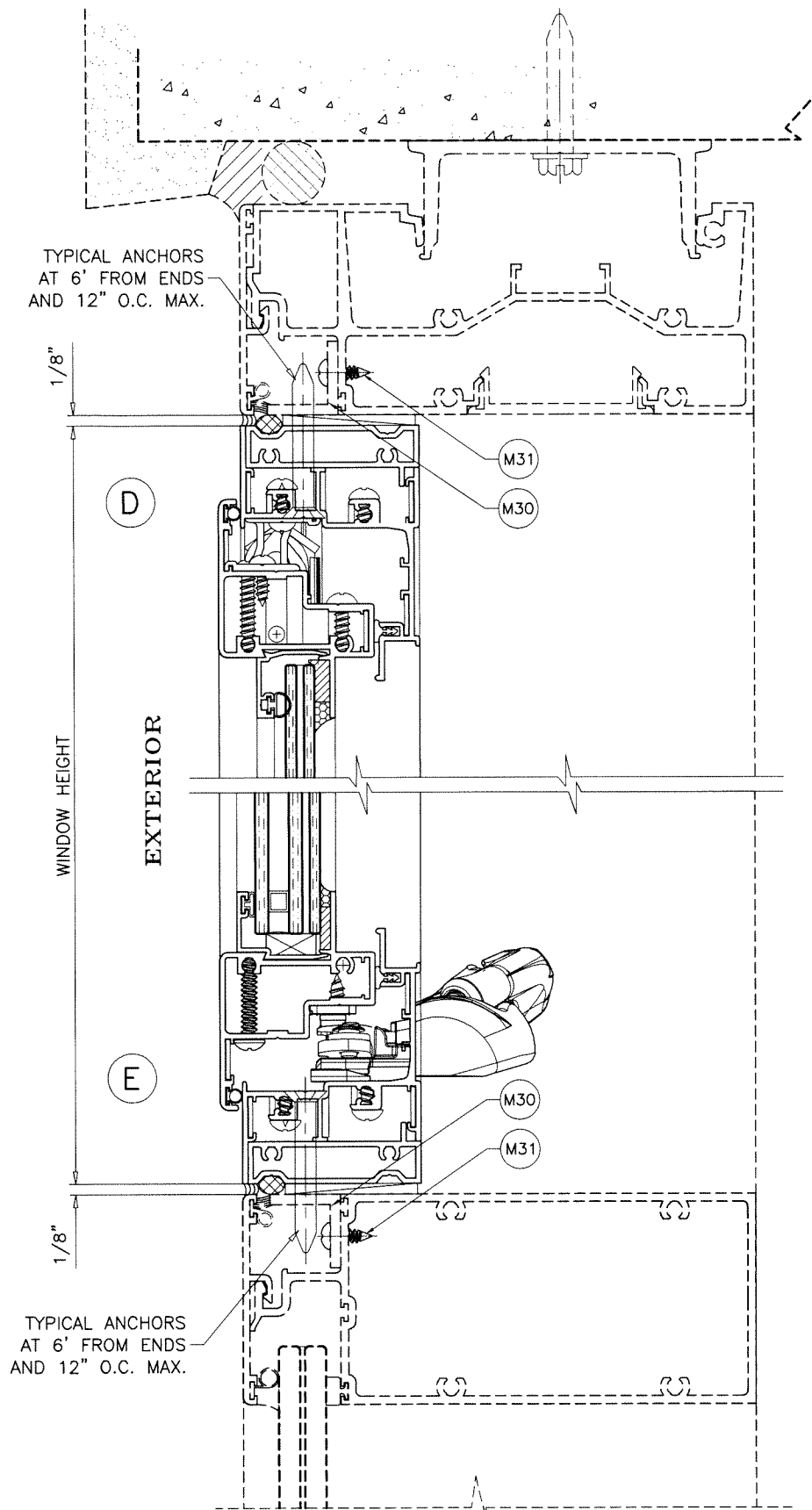
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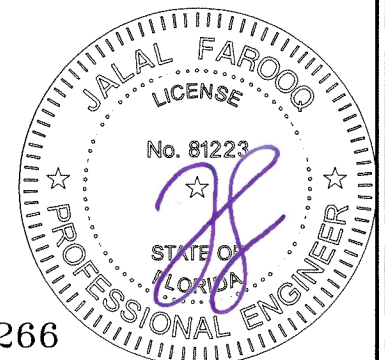
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SEE SEPARATE APPROVAL FOR ES-7100 WINDOW WALL SYSTEM
DESIGN LOADS AND ANCHORS.

LOWER VALUES FROM PROJECTED WINDOW CAPACITY
OR WINDOW WALL SYSTEM APPROVAL WILL APPLY TO ENTIRE SYSTEM.

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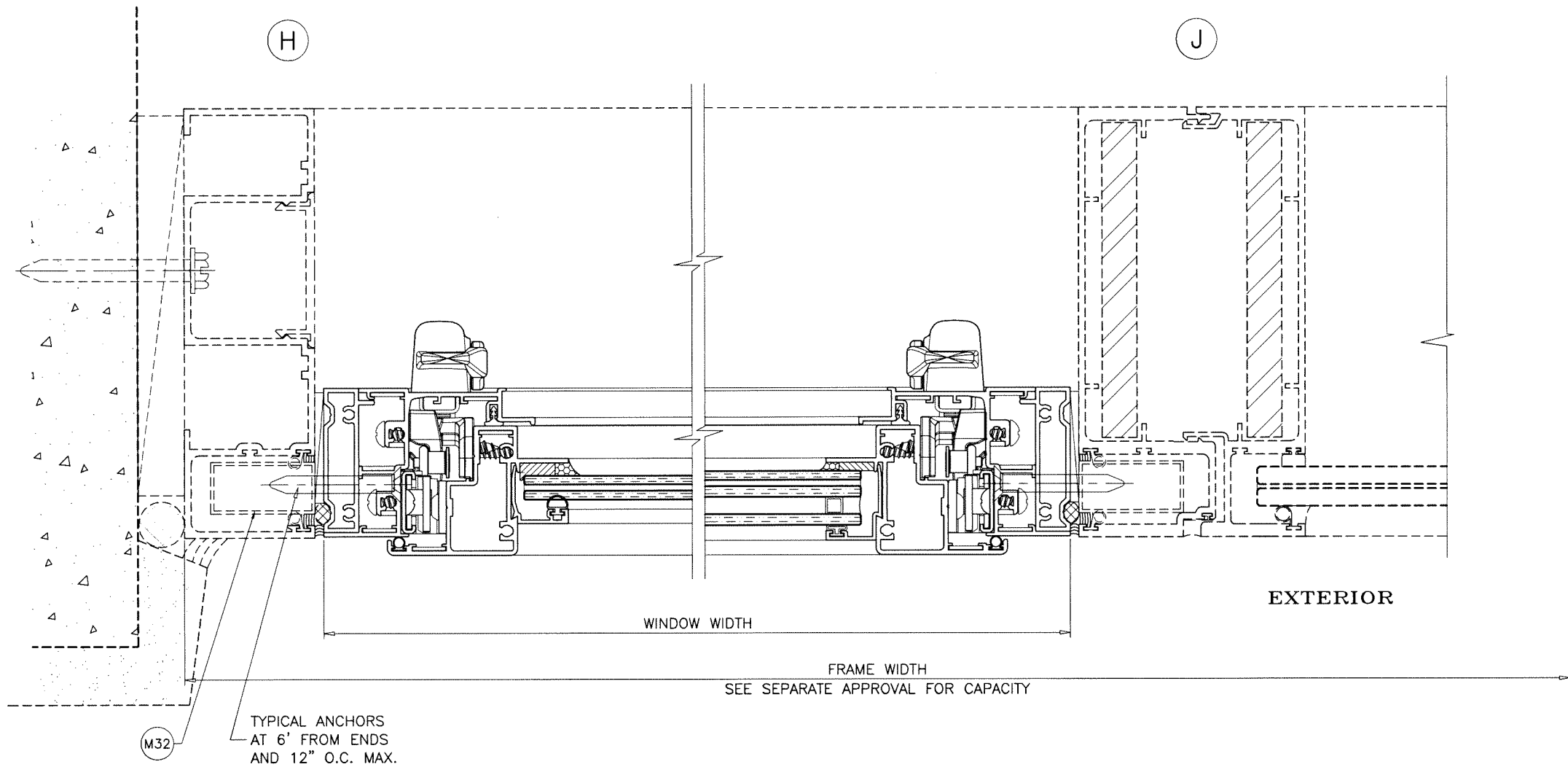
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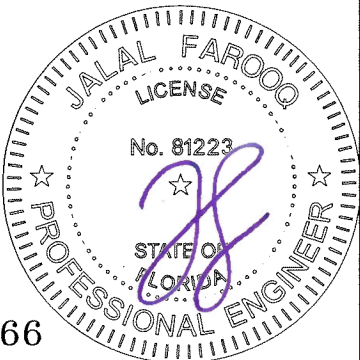
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W16-67
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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-5001	4	FRAME	6063-T6	-
E2	ES-5002	4	VENT	6063-T6	-
E3	ES-5017	AS REQD.	FLUSH FRAME ADAPTER	6063-T6	-
E4	ES-1017	4	GLAZING BEAD (LAM. GLASS)	6063-T6	-
E4.1	ES-1103	4	GLAZING BEAD (LAM. GLASS)	6063-T6	-
E5	ES-1019	4	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
M1	#10 X 1"	2/ CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	PH SMS
M2	#10 X 1-1/4"	1/ CORNER	VENT ASSEMBLY SCREWS	ST. STEEL	PH SMS
M3	#10 X 1-1/2"	1/ CORNER	VENT ASSEMBLY SCREWS	ST. STEEL	PH SMS
M4	#8 X 1/2"	AS REQD.	SNUBBER FASTENERS	ST. STEEL	PH SMS
M4A	#10 X 1/2"	6/ HINGE	HINGE INSTALLATION SCREWS	ST. STEEL	PH SMS
M4B	#10 X 1/2"	2/ KEEPER	KEEPER INSTALLATION SCREWS	ST. STEEL	PH SMS
M5	#8 X 1/2"	-	CLAP WASHER FASTENERS	ST. STEEL	PH MS
M6	#6 X 1/2"	-	SCREEN HOLDER FASTENERS	ST. STEEL	FH SMS
M7	#8 X 1/2"	8	OPERATOR FASTENERS	ST. STEEL	FH SMS
M8	#10 X 1-1/4"	2	BAR GUIDE FASTENERS	ST. STEEL	FH SMS
M8B	#8 X 1/2"	8	PLATE FASTENERS	ST. STEEL	FH SMS
M9	WS-100E-S-5004	AS REQD.	SNUBBER	DIE CAST ALUM	-
M10	PJS43-SS	AS REQD.	CORNER KEY	ST. STEEL	-
M11	CL01-0475	-	MULTI POINT LOCKING HANDLE	DIE CAST ZINC	-
M12	CL02-2045	-	SNAP ON COVER	DIE CAST ZINC	-
M13	CL02-1020	-	SNAP ON HANDLE	PLASTIC	-
M14	CL01-4001	-	CLAMP WASHER	ST. STEEL	-
M15	CL02-0021	-	LOCK BAR	ST. STEEL	-
M16	CL02-2036	-	LOCK KEEPER	ACETAL	-
M17	CL02-2027	3/ JAMB	BAR GUIDE, AT 8", 12-3/4" & 20-1/4" FROM BOTTOM	ACETAL	-
M18	C011-0605	-	COVER OPERATOR HANDLE	-	-
M19	AMC-320	2	4 BAR HINGE	ST. STEEL	AMC MANUFACTURING
M20	C011-0651-000	-	OPERATOR SPACER	-	-
M21	C011-2202	-	OPERATOR SPACER	-	-
M22	C011-2322	-	OPERATOR BRACKET	-	-
M23	C011-0451-085	-	AWNING OPERATOR	-	-
M24	E206	AS REQD.	OUTER W'STRIPPING	EPDM	DUROMETER 60±5 SHORE A
M24B	27-308	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 70±5 SHORE A
M25	ES5005	AS REQD.	INNER W'STRIPPING	EPDM	DUROMETER 60±5 SHORE A
M26	ES-5008	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 70±5 SHORE A
M27	-	AS REQD.	GLAZING TAPE SINGLE FACE (1/8" X 1/2")	FOAM	-
M28	ES-4520-B02	2/ LITE	SETTING BLOCKS	EPDM	DUROMETER 80±5 SHORE A
M30	AAC-A-011	2	ALUMINUM ANGLE, FULL LENGTH	6063-T6	-
M31	#8 X 1/2"	AS REQD.	ANGLE FASTENERS, AT 2-1/4" FROM ENDS & 12" O.C.	ST. STEEL	PH SMS
M32	ES-T-097	2	POCKET FILLER	6063-T6	-
M33	C011-0510	2	BRACKET	304 ST. STEEL	-
M34	CL01-0475	2	LOCK	ZINC ALLOY	DIE CAST
M35	CL02-2045-XXX	2	SNAP ON COVER	ZINC ALLOY	DIE CAST
M36	CL02-1020-XXX	2	SNAP ON HANDLE	ALUMINUM	DIE CAST
M37	CL02-0025	2	LOCK BAR	ST. STEEL	-
M38	CL02-2082-00B	2	LOCK KEEPER	ACETAL	-
M39	CL02-2077-00B	2	BAR GUIDE	ACETAL	-

SEALANTS:

ALL FRAME AND VENT CORNERS AND INSTALLATION SCREWS SEALED WITH CLEAR/ALUMINUM COLORED SEALANT.

LOCKS: FOR WINDOWS UPTO 48" WIDTHS

SURFACE MOUNT METALLIC THREE POINT LOCK SYSTEM WITH ACTIVATING LEVER TYPE HANDLE LOCATED AT 10" FROM BOTTOM AT FRAME JAMBS FASTENED WITH (2) #8-32 X 1/2" PH SMS

SURFACE MOUNT NYLON KEEPERS LOCATED AT 5", 16" AND 22-1/2" FROM BOTTOM AT VENT JAMB RAILS EACH FASTENED WITH (2) #8 X 1/2" FH SMS

LOCKS: FOR WINDOWS ABOVE 48" WIDTHS

SURFACE MOUNT METALLIC CAM LOCKS LOCATED AT FRAME SILL AT 9-1/2" FROM EACH JAMB EACH FASTENED WITH (2) #8-32 X 1/2" FH SMS

SURFACE MOUNT NYLON KEEPERS FACING LOCKS AT VENT BOTTOM RAIL EACH FASTENED WITH (2) #8 X 1/2" PH SMS

HINGES:

SURFACE MOUNT METALLIC 4 BAR HINGES BY 'ADVANTAGE MFG. CORP.' LOCATED AT WINDOW FRAME UPPER CORNERS FASTENED TO FRAME WITH (3) #10 X 1/2" PH SMS FASTENED TO VENT WITH (4) #10 X 1/2" PH SMS

ANTI BLOW OUT CLIPS:

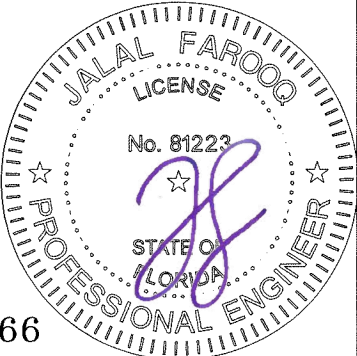
1-1/2" LONG ALUMINUM ANTI BLOW OUT CLIPS AT FRAME HEAD AND VENT TOP RAIL
(2) FOR WINDOWS UPTO 48" WIDTHS LOCATED AT 11-1/2" FROM EACH END
(3) FOR WINDOWS ABOVE 48" WIDTHS LOCATED AT 18" FROM EACH END AND AT MIDSPAN FASTENED WITH (2) #8 X 1/2" FPH SMS

OPERATOR:

SURFACE MOUNT METALLIC ROTO OPERATOR LOCATED AT MIDSPAN OF FRAME SILL FASTENED WITH (6) #8 X 3/4" FH SMS

SURFACE MOUNT 2-3/8" LONG NYLON OPERATOR TRACK LOCATED AT MIDSPAN OF BOTTOM RAIL FASTENED WITH (2) #8 X 1/2" FH SMS

Sealed: 7/25/2023



FL #22266

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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(C.A.N. 3538)
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COMP-ANL\W16-67ES

ES-5600 PROJECT-OUT ALUMINUM WDW. (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151
FAX. (305) 638-5158

revisions:

no	date	by	description

date: 10-27-16

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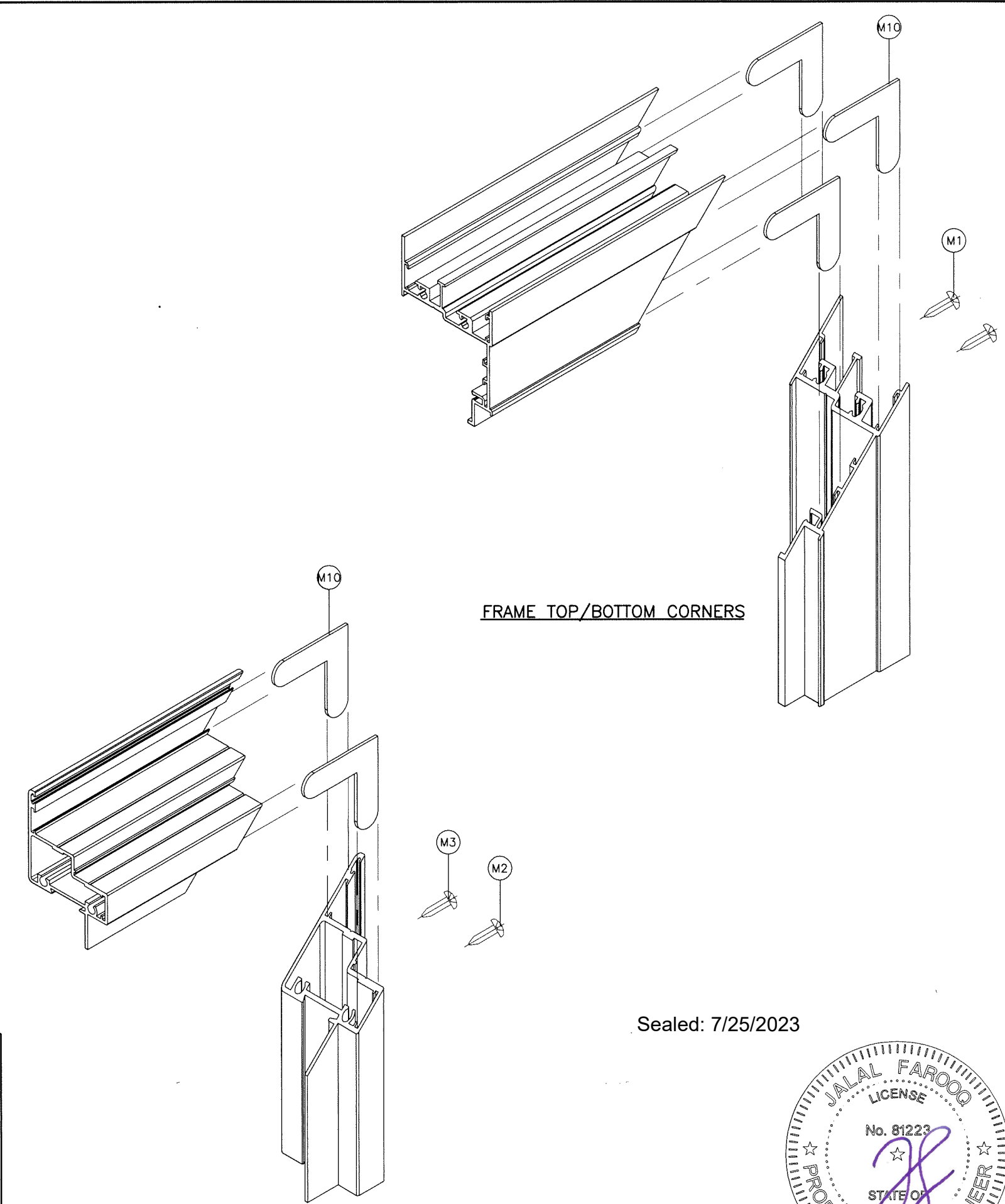
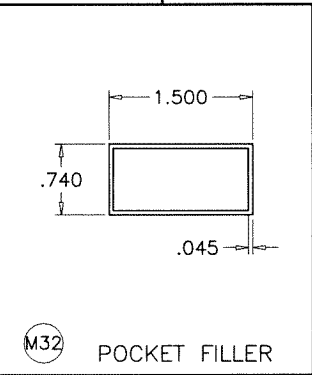
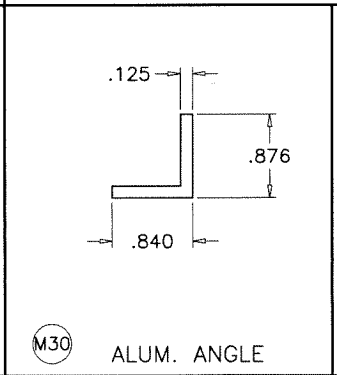
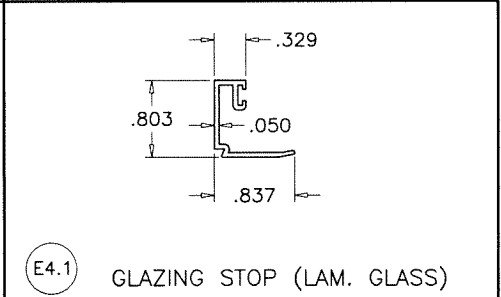
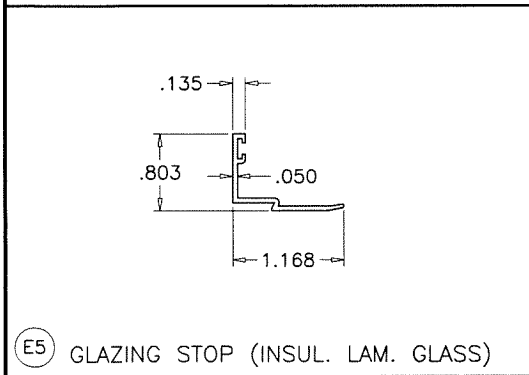
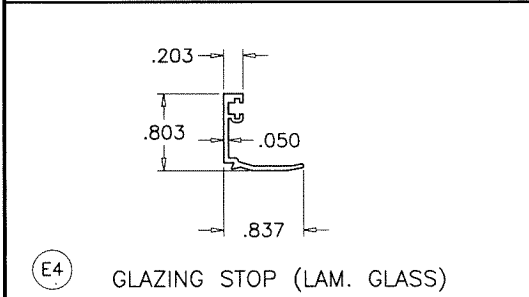
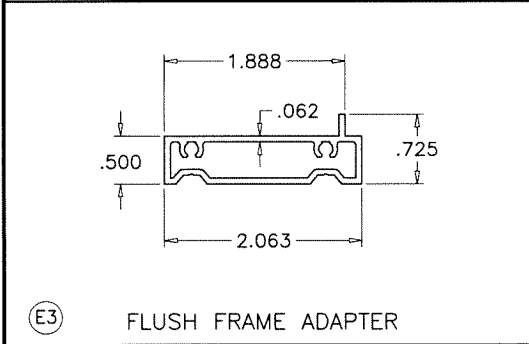
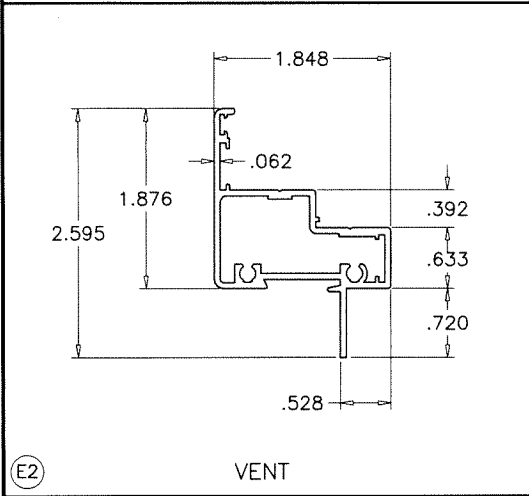
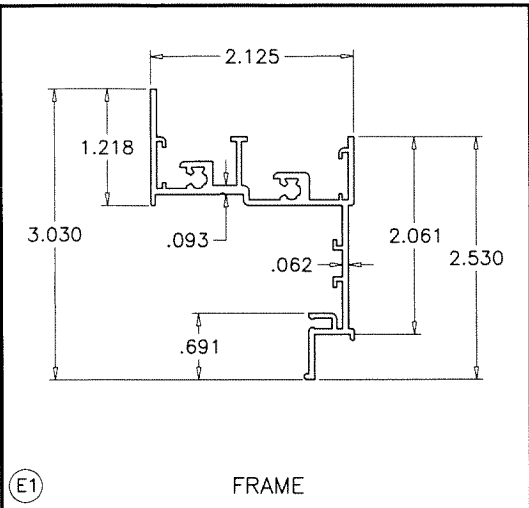
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chk. by:

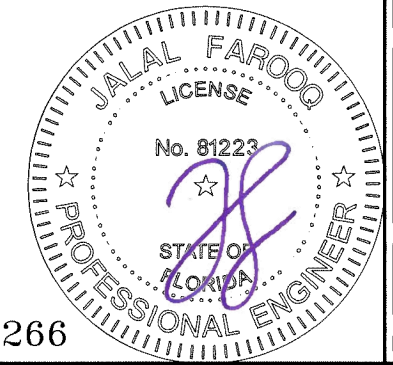
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W16-67

sheet 9 of 10



Sealed: 7/25/2023



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a f c

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drawing no.
W16-67
sheet 10 of 10

FL #22266