



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/building

E.S. Windows, LLC
3550 NW 49th Street
Miami, FL 33142

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "ES-5600" Aluminum Project Out Window – S.M.I.

APPROVAL DOCUMENT: Drawing No. **W17-44**, titled "Series ES-5600 Project-Out Aluminum Wdw. (S.M.I.)", sheets 1 through 10 of 10, dated 04/20/17, with revision **E** dated 07/13/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla, Colombia**, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

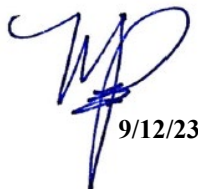
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA No. **20-1116.04** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**




9/12/23

NOA No. 23-0724.07
Expiration Date: October 25, 2028
Approval Date: September 21, 2023
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED


1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 17-0505.04)
2. Drawing No. **W17-44**, titled "Series ES-5600 Project-Out Aluminum Wdw. (S.M.I.)", sheets 1 through 10 of 10, dated 04/20/17, with revision **D** dated 11/05/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 20-1116.04)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Drop Load Test, per CPCS 16 CFR 1201 (Cat 11)
5) Large Missile Impact Test per FBC, TAS 201-94
6) Small Missile Impact Test per FBC, TAS 201-94
7) Cyclic Wind Pressure Loading per FBC, TAS 203-94
8) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of a Project out aluminum window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8320**, dated 03/07/2017, signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 17-0505.04)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of a Project out aluminum window (Sample A-1), prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7155**, dated 07/15/13, witnessed by Marlin Brinson, P.E. and Jorge A. Naya, P.E. and reviewed by Jorge A. Naya, P.E.
(Submitted under NOA No. 17-0505.04)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-0724.07
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 04/18/17 with revisions dated 03/22/18 and 09/21/18, further updated on 10/30/20 to comply with **FBC 7th Edition (2020)**, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 20-1116.04)
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS


1. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 05/09/19, expiring on 07/08/24.
2. Notice of Acceptance No. **20-0622.01** issued to **Eastman Chemical Company (MA)** for their "Saflex PVB Clear and Color Glass Interlayers" dated 08/06/20, expiring on 05/21/21.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)**, with **FBC 7th Edition (2020)**, and of no financial interest, dated October 30, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 20-1116.04)
2. Distributor Agreement dated 08/01/18 between Energia Solar, S.A., Barranquilla, Columbia, S.A. and Tecnoglass, LLC, Miami, Florida, , signed by Ms. Carla Garcia, Int'l Sales Manager and MS. Evelyn Daes, General Manager on behalf of their respective companies.
(Submitted under NOA No. 17-0505.04)
3. Proposal issued by Product Control Section, dated 10/16/14, signed by Jaime D. Gascon, P.E.
(Submitted under NOA No. 17-0505.04)

G. OTHERS

1. Notice of Acceptance No. **17-0505.04**, issued to E.S. Windows, LLC, for their Series "ES-5600" Aluminum Project Out Window – S.M.I., approved on 10/25/18 and expiring on 10/25/23.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-0724.07
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W17-44**, titled “Series ES-5600 Project-Out Aluminum Wdw. (S.M.I.)”, sheets 1 through 10 of 10, dated 04/20/17, with revision **E** dated 07/13/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

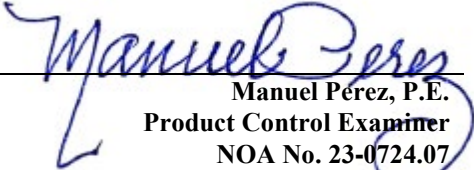
1. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 11/19/20, expiring on 07/08/24.
2. Notice of Acceptance No. **21-0216.01** issued to **Eastman Chemical Company (MA)** for their “**Saflex PVB Interlayers - Clear and Colored for Glass**” dated 04/29/21, expiring on 05/21/26.

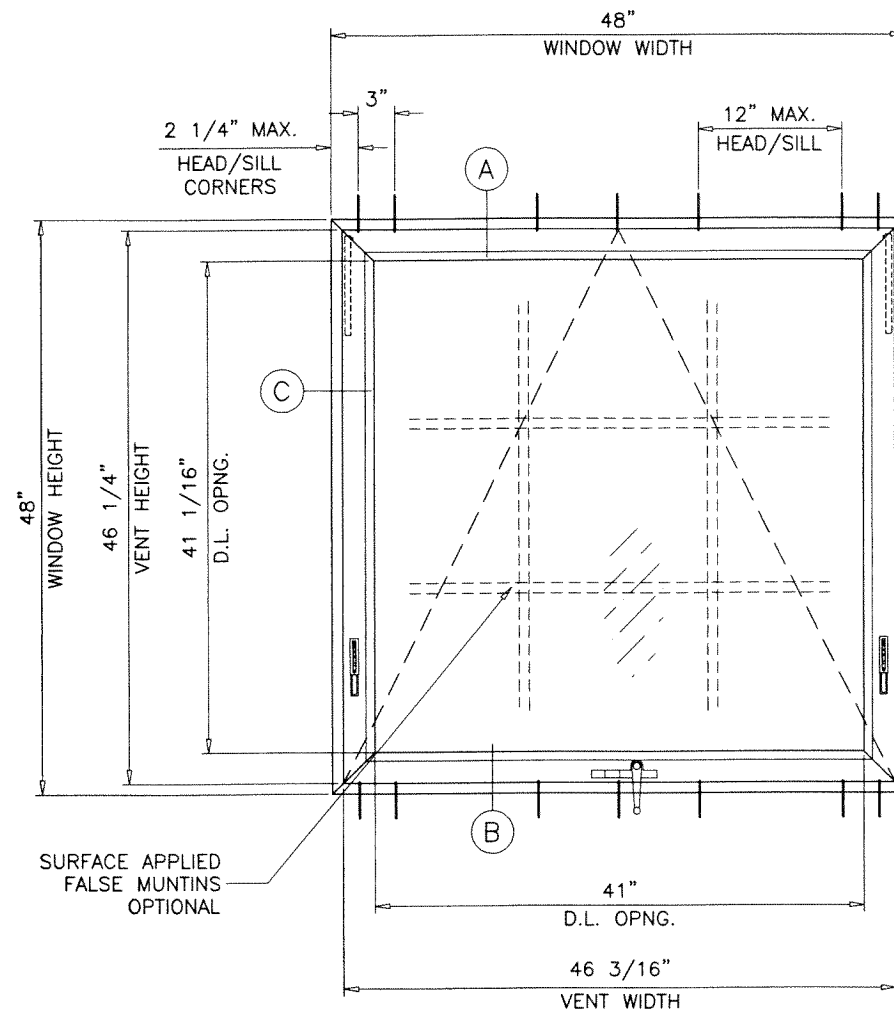
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, with **FBC 8th Edition (2023)**, and of no financial interest, dated July 14, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. Notice of Acceptance No. **20-1116.04**, issued to E.S. Windows, LLC, for their Series “ES-5600” Aluminum Project Out Window – S.M.I., approved on 02/25/21 and expiring on 10/25/23.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 23-0724.07
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TYPICAL ELEVATION

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 MIAMI-DADE COUNTY 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.

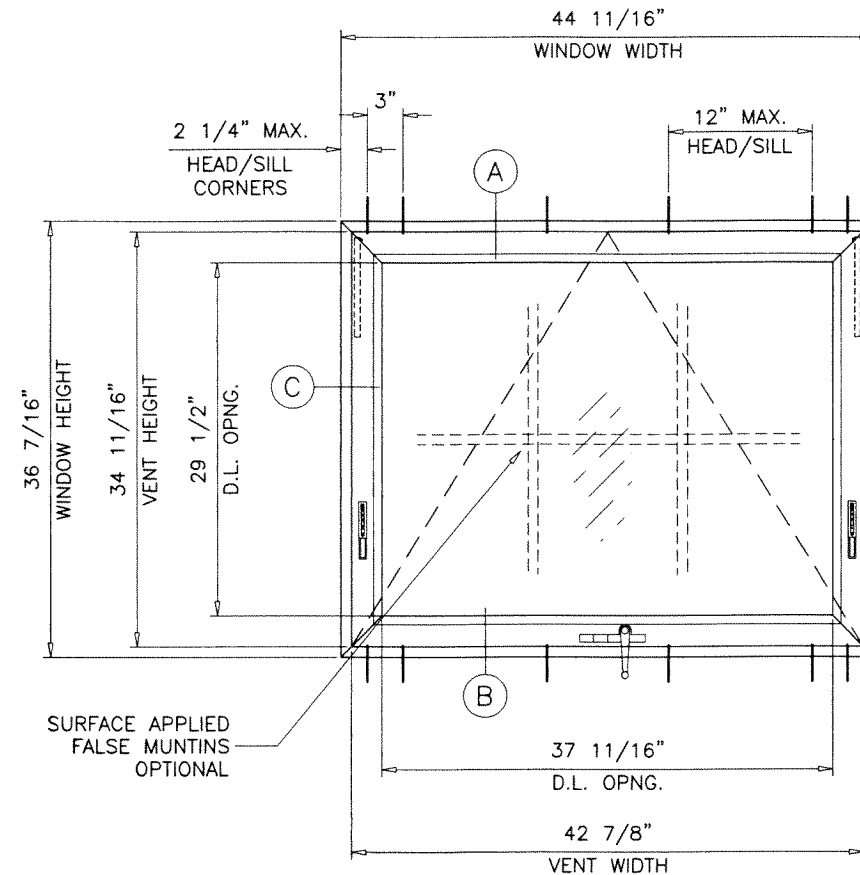
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,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

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

GLASS TYPES 'A' & 'B'

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

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219



TYPICAL ELEVATION

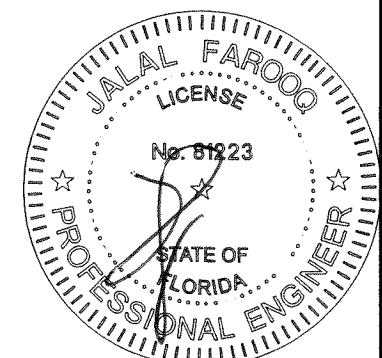
GLASS TYPES 'C' & 'D'

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

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT. MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

PRODUCT WITH GLASS TYPES 'A' & 'B' COMPLIES WITH REQUIREMENTS OF ANSI Z97.1. SAFEGUARD REQUIREMENTS TO BE VERIFIED.

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **23-0724.07**
Expiration Date: **10/25/2028**
By: *Manuel Perez*
Miami-Dade Product Control



af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W17-44ES

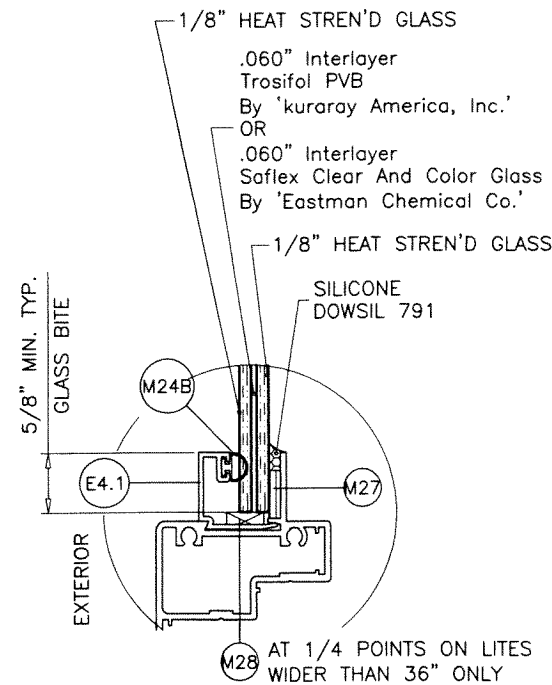
ES-5600 PROJECT-OUT ALUMINUM WDW. (S.M.I.)

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

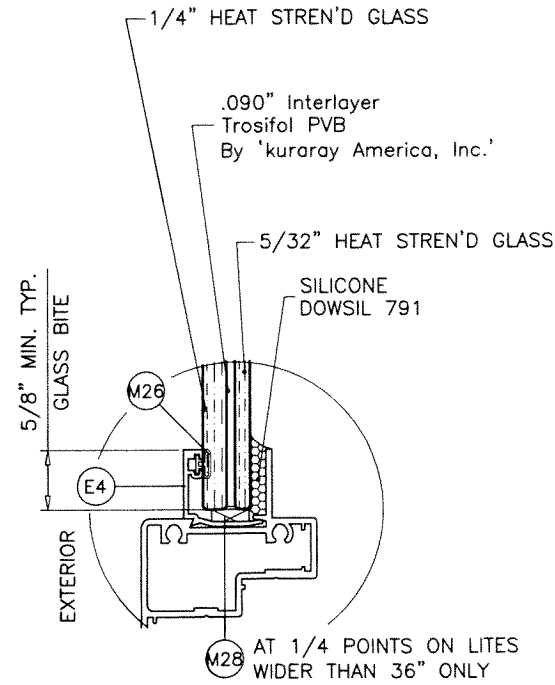
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	D	11.05.20	UPDATED TO 2020 FBC	
	E	07.13.23	UPDATED TO 2023 FBC	

date:	04-20-17
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dr. by:	TARIQ
chk. by:	

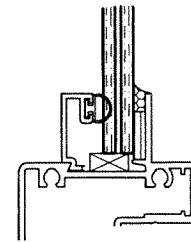
drawing no.	W17-44
sheet	1 of 10



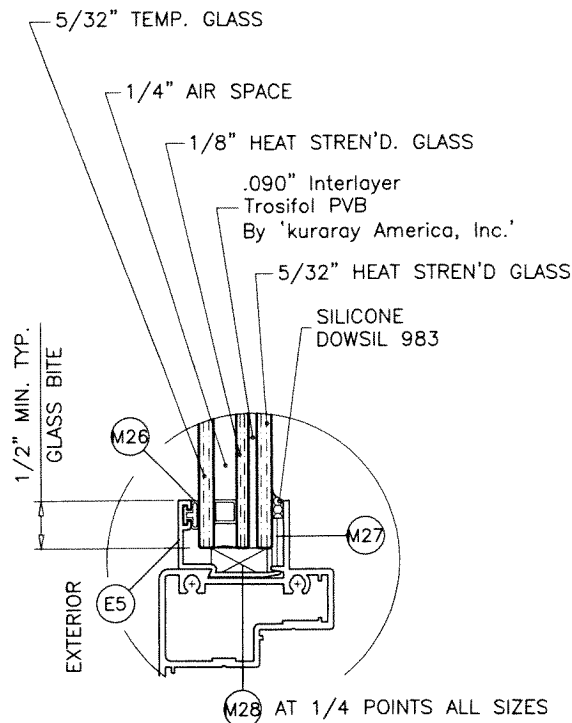
GLASS TYPE 'A'



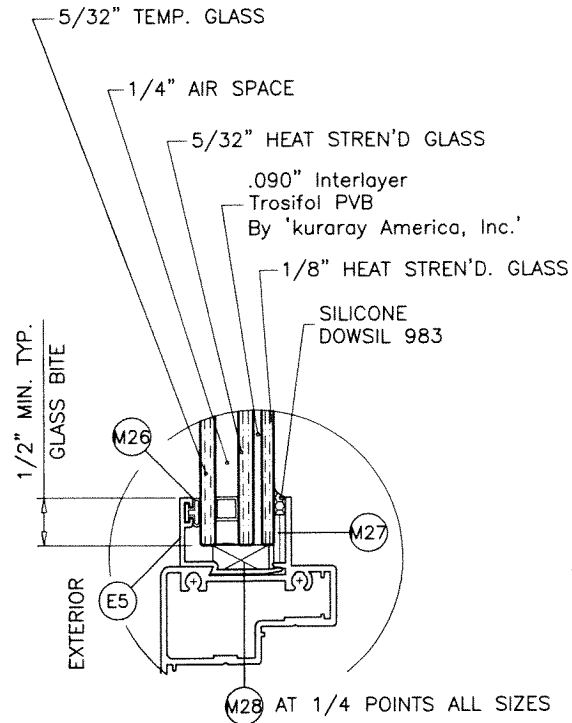
GLASS TYPE 'B'



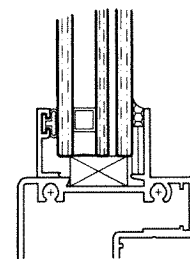
SETTING BLOCKS AT LAM. GLASS
NOTCH GLAZING BEAD LEG
TO CLEAR BLOCKS



GLASS TYPE 'C'



GLASS TYPE 'D'



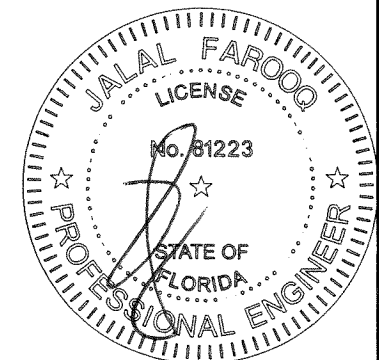
SETTING BLOCKS AT INSUL. LAM. GLASS
NOTCH GLAZING BEAD LEG
TO CLEAR BLOCKS

GLAZING OPTIONS

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

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JUL 17 2023



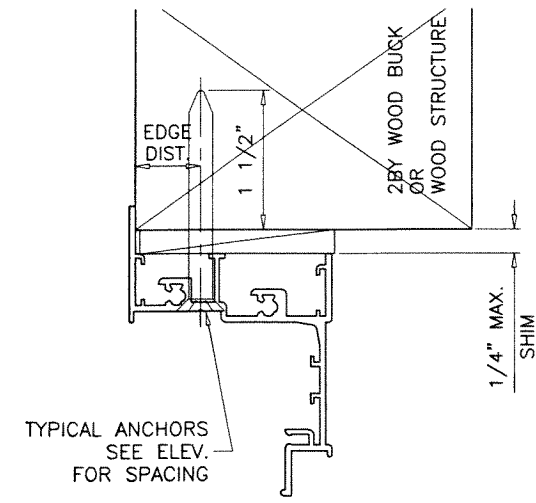
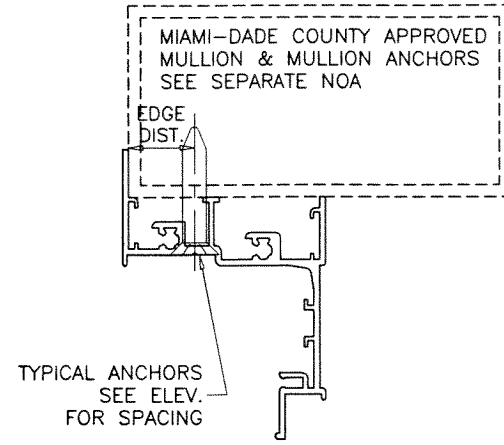
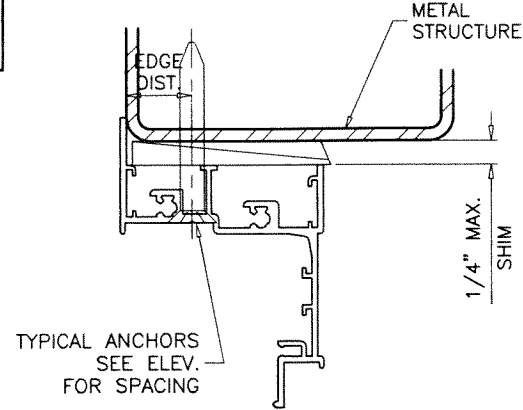
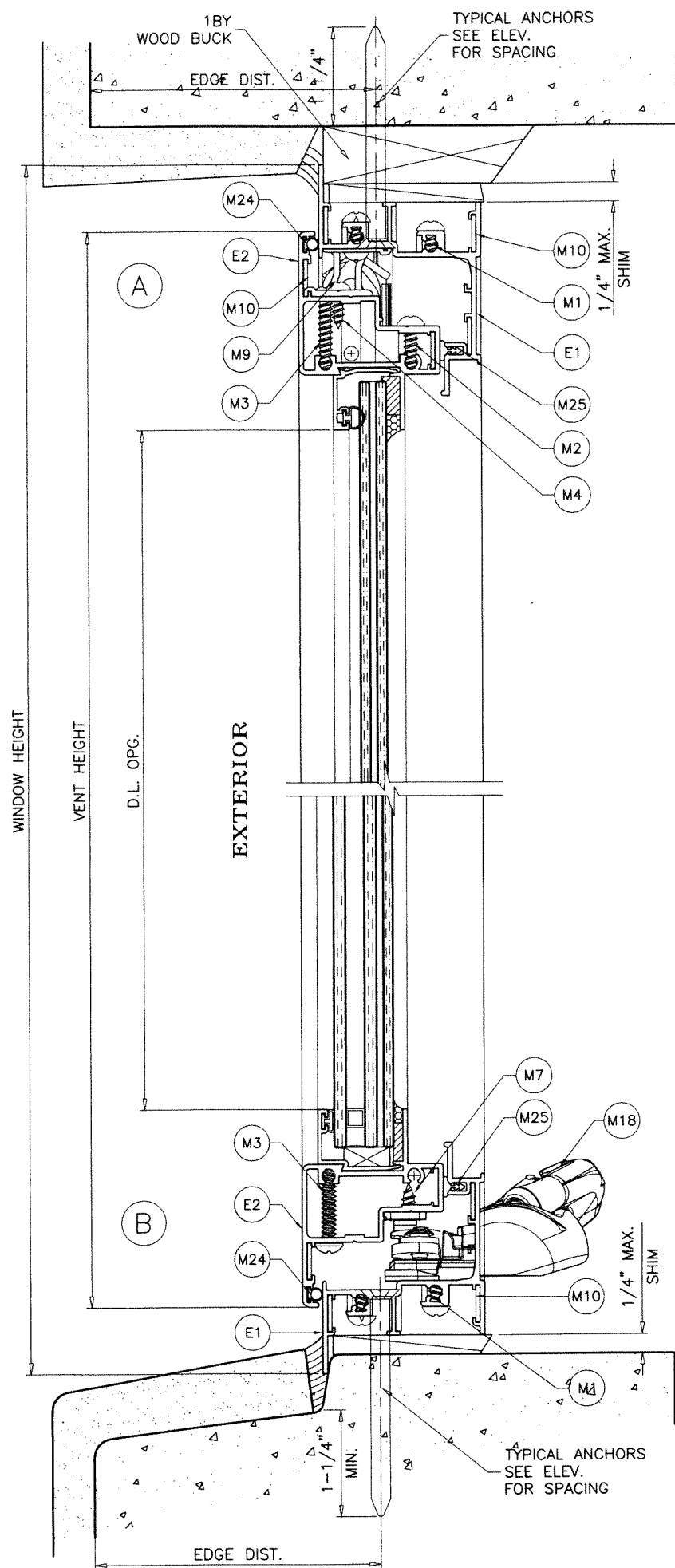
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)
COMP-ANL\W17-44ES

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
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		B	04.19.18	REV. PER RER COMMENTS	
		C	09.21.18	NO CHANGE THIS SHEET	
		D	11.05.20	UPDATED TO 2020 FBC	
		E	07.13.23	NO CHANGE THIS SHEET	

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scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

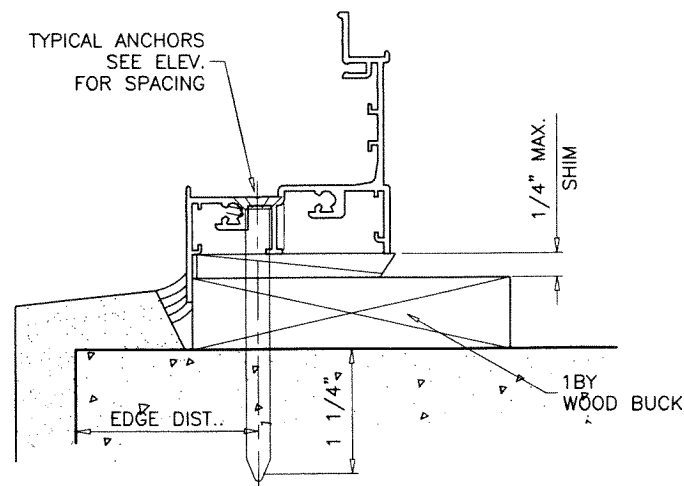
drawing no.
W17-44
sheet 2 of 10



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

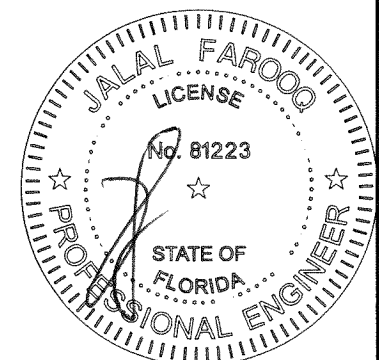
TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL)
 THRU 1BY BUCKS INTO CONCRETE
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
 DIRECTLY INTO CONCRETE
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO MIAMI-DADE COUNTY 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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JUL 17 2023

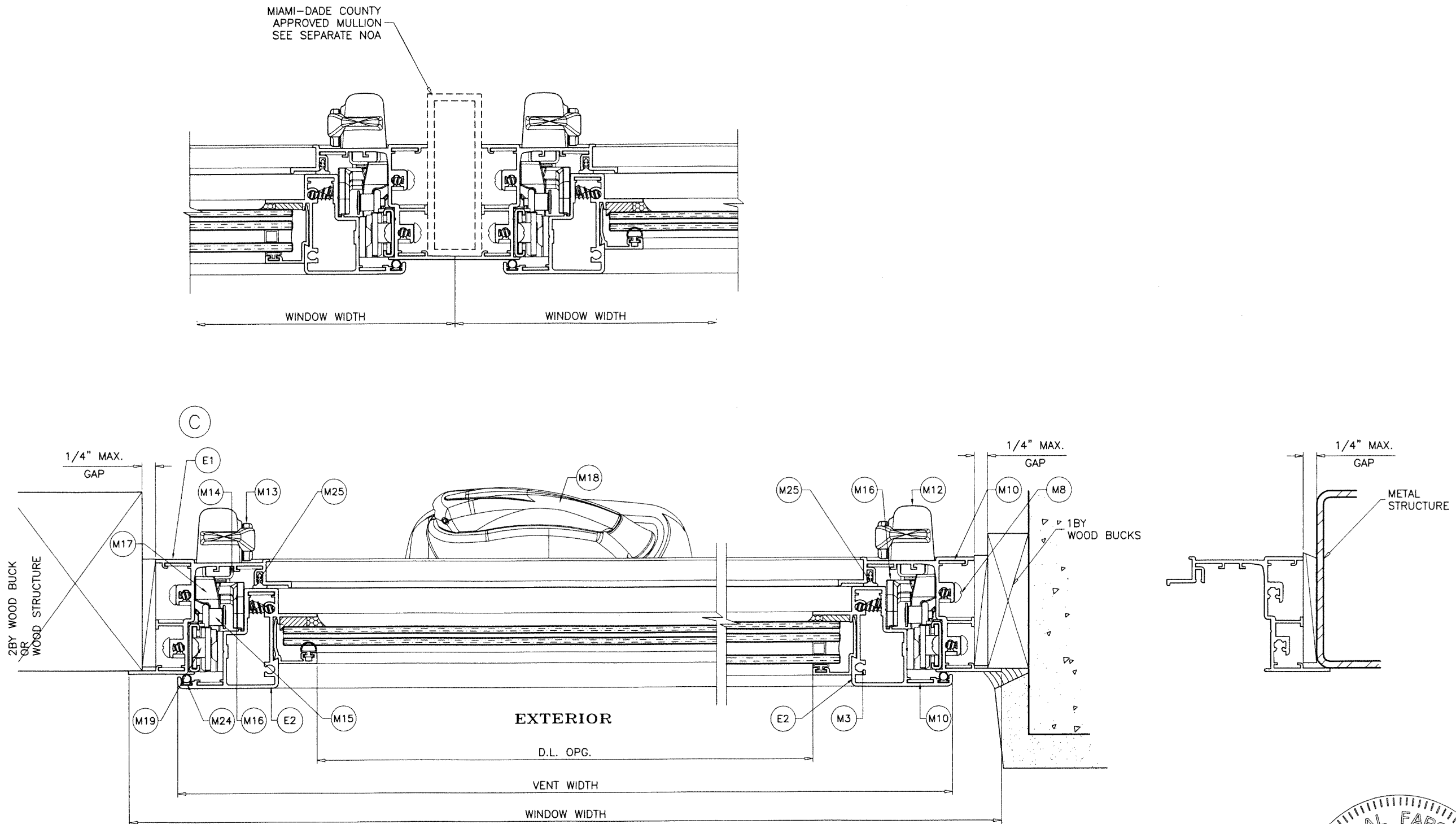


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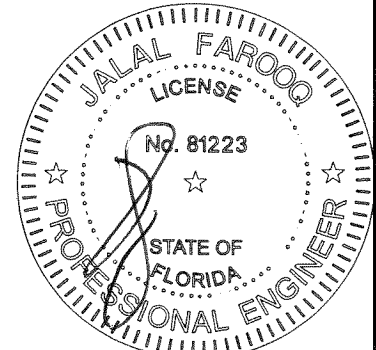
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 chk. by:
 drawing no. **W17-44**
 sheet 3 of 10



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COMP-ANL\W17-44ES

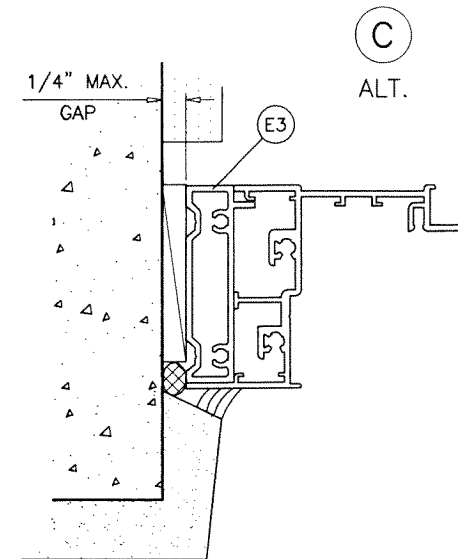
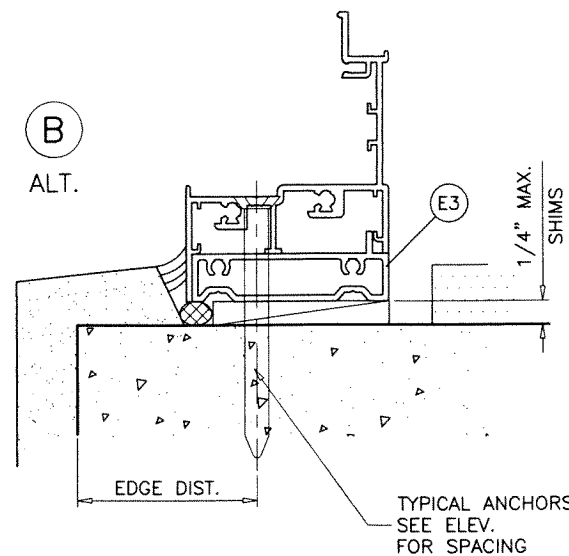
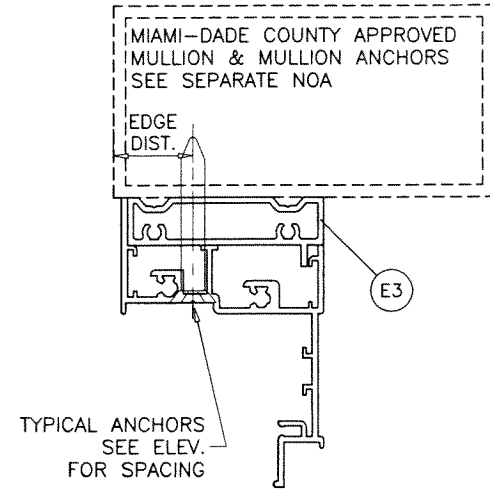
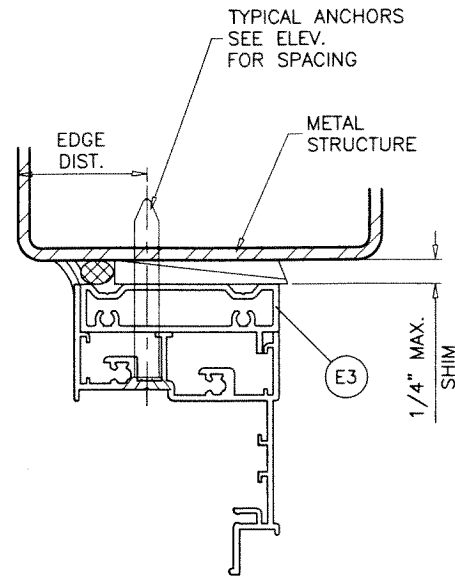
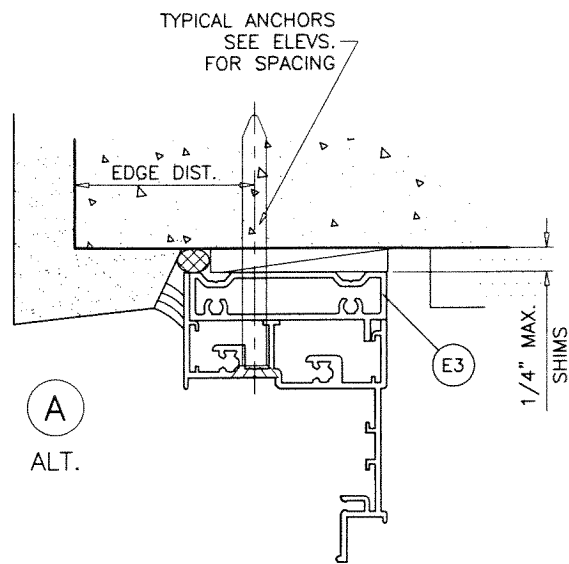
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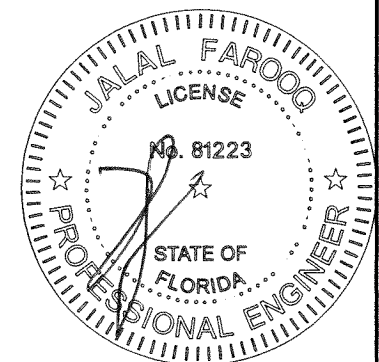
date: 04-20-17
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 dr. by: TARIQ
 chk. by:

drawing no.
W17-44
 sheet 4 of 10



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By: *Manuel Perez*
Miami-Dade Product Control

JUL 17 2023



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)

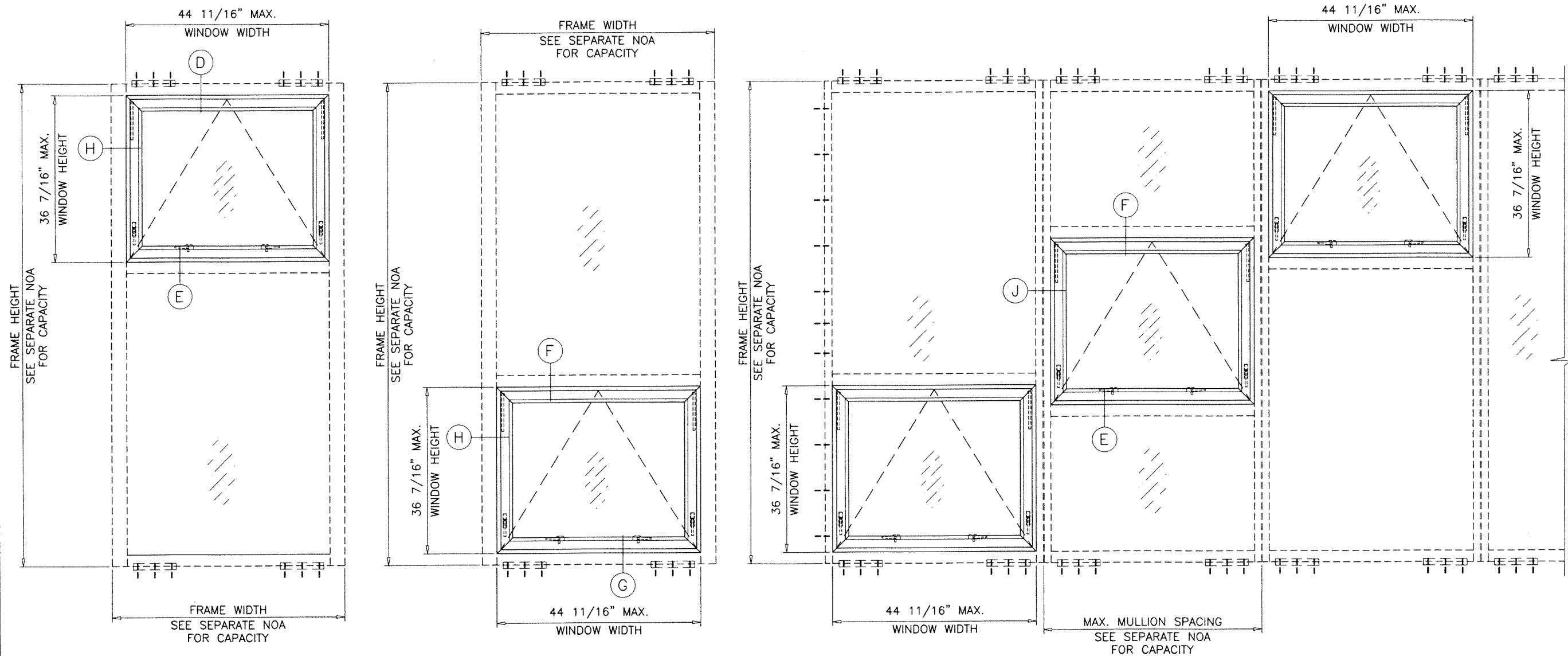
ES-5600 PROJECT-OUT ALUMINUM WDW. (S.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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dr. by: TARIQ
chk. by:

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COMP-ANL\W17-44ES



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

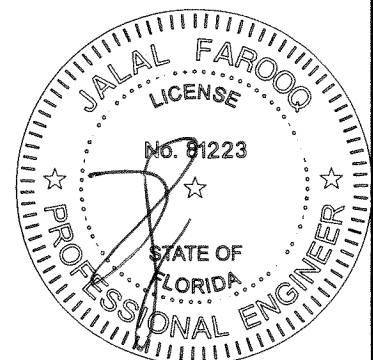
MAXIMUM DESIGN LOAD RATING = + 100.0 PSF
(FOR WINDOW SIZES SHOWN ABOVE - 110.0 PSF
OR SMALLER
WITHIN WINDOW WALL SYSTEM)

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

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

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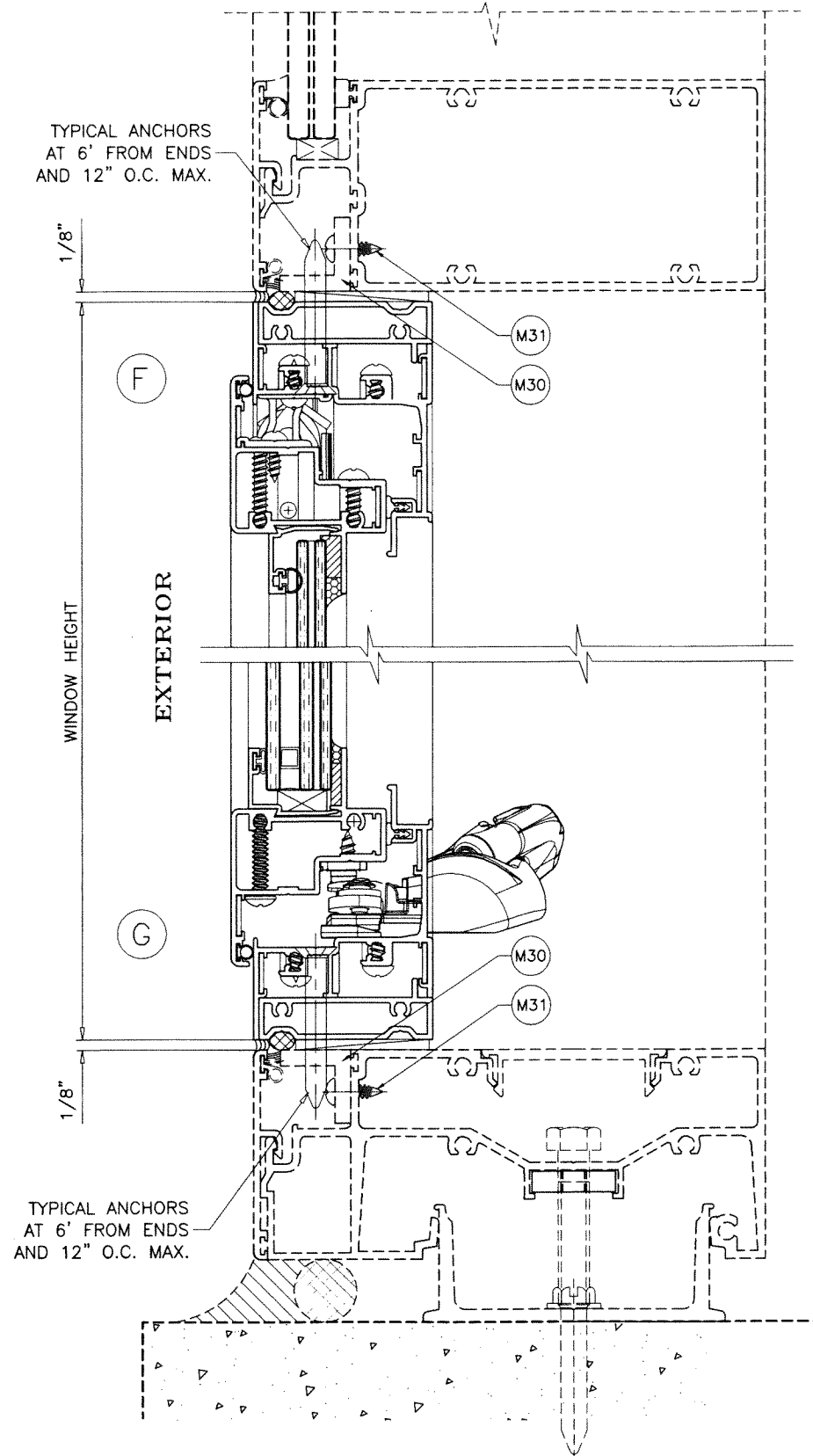
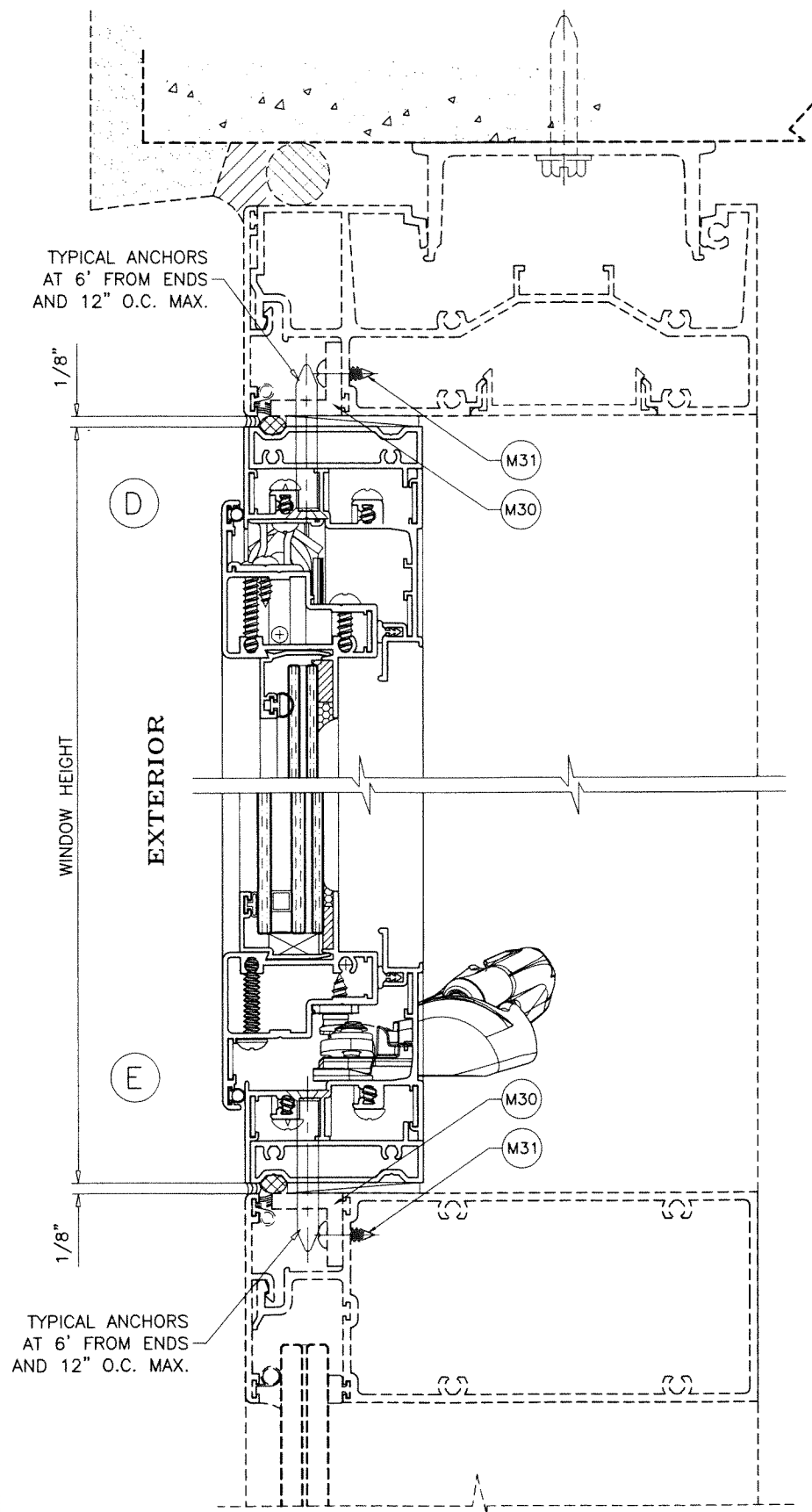
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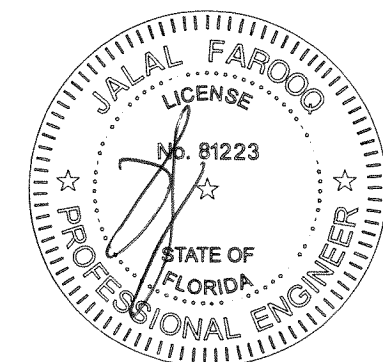


SEE SEPARATE NOA FOR ES-7100 WINDOW WALL SYSTEM
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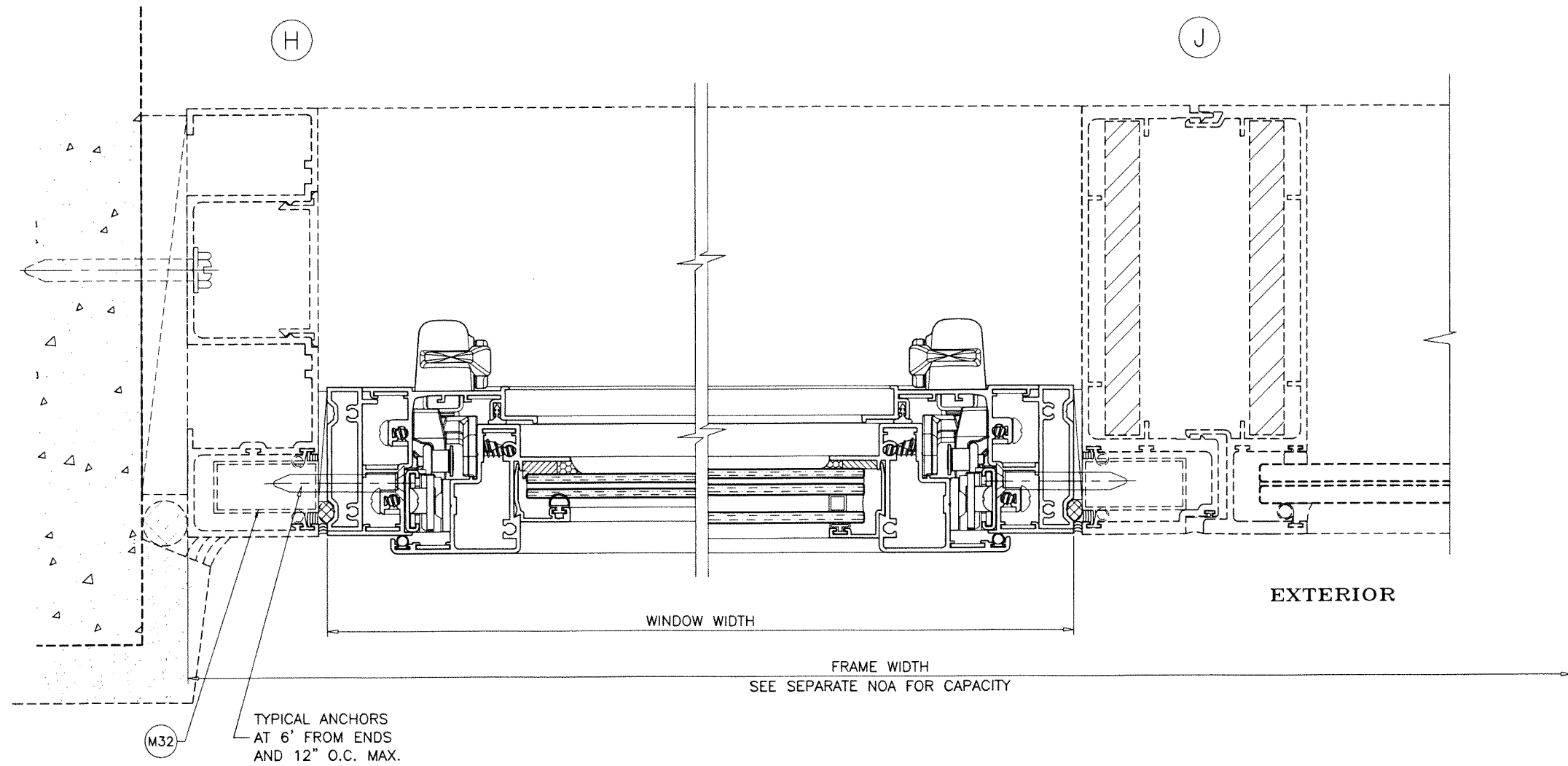


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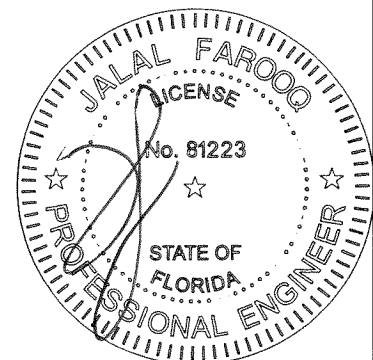
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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-5001	4	FRAME	6063-T6	-
E2	ES-5002	4	VENT	6063-T6	-
E3	ES-5017	AS REQD.	FLUSH FRAME ADAPTER	6063-T6	-
E4	ES-1017	4	GLAZING BEAD (LAM. GLASS)	6063-T6	-
E4.1	ES-1103	4	GLAZING BEAD (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-100 (ES-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	ES-5008 (27-425)	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-9000-B01 (80-341)	2/ LITE	SETTING BLOCKS	EPDM	DUROMETER 80±5 SHORE A
M30	AAC-A-011	2	ALUMINUM ANGLE, FULL LENGTH	6063-T6	-
M31	#10 X 5/8"	AS REQD.	ANGLE FASTENERS, AT 2-3/8" FROM ENDS & 8" O.C.	ST. STEEL	PH SMS
M32	ES-T-097	2	POCKET FILLER	6063-T6	-

SEALANTS:

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

LOCKS:

SURFACE MOUNT METALLIC THREE POINT LOCK SYSTEM WITH ACTIVATING LEVER TYPE CAM LOCKS 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

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:

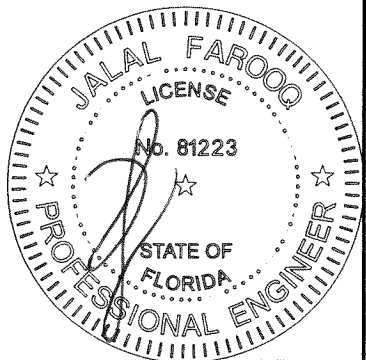
1-1/2" LONG ALUMINUM ANTI BLOW OUT CLIPS AT FRAME HEAD AND VENT TOP RAIL LOCATED AT 11-1/2" FROM EACH END FASTENED WITH (2) #8 X 1/2" FPH SMS

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

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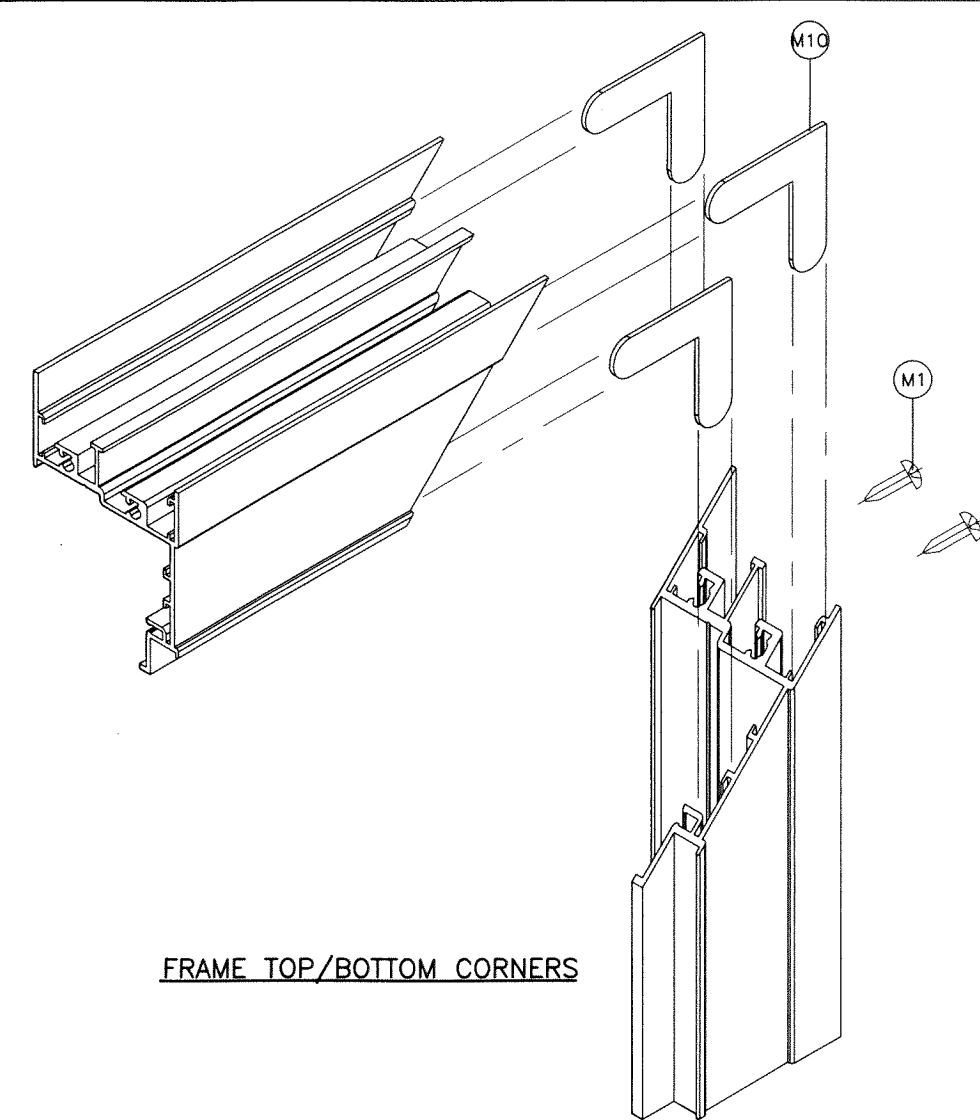
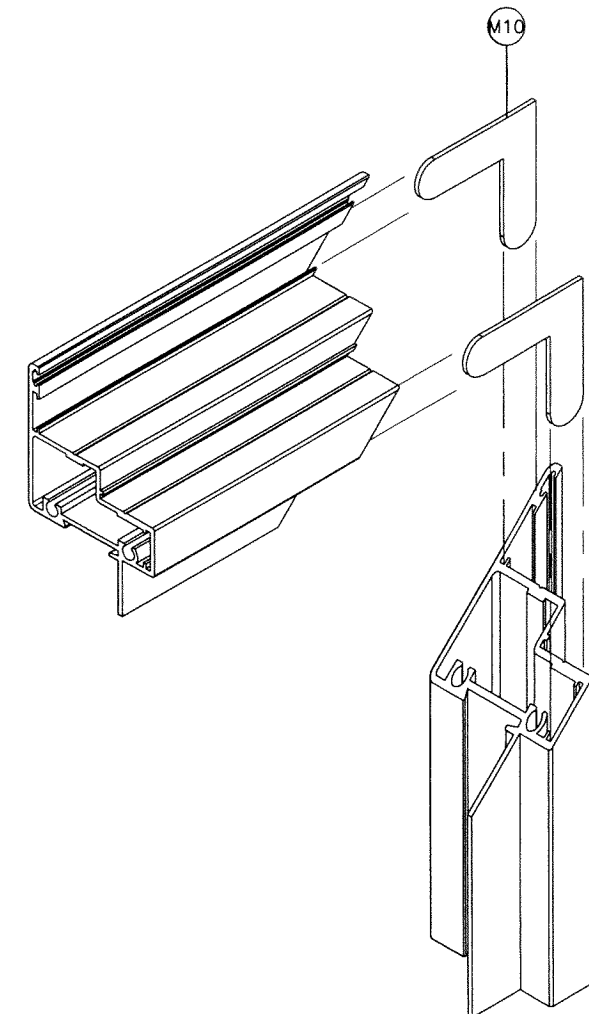
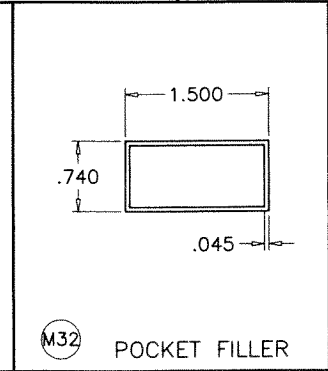
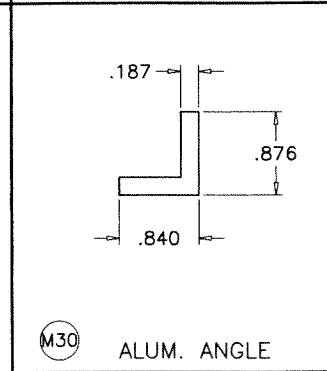
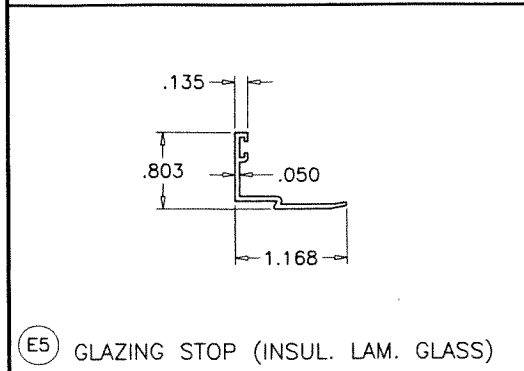
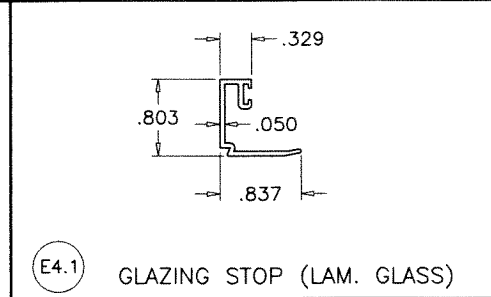
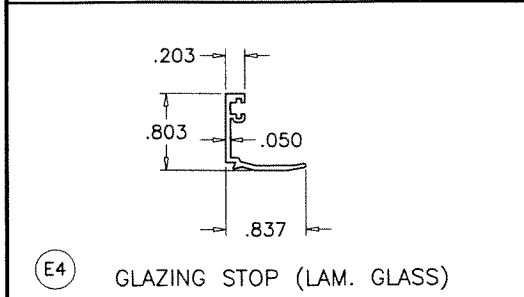
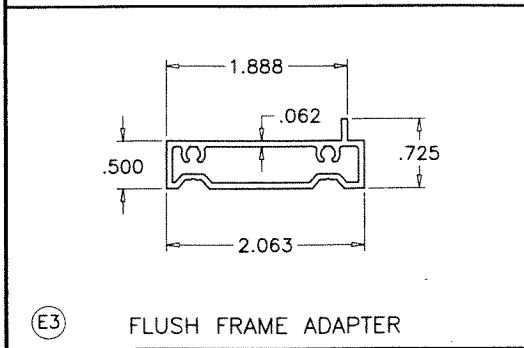
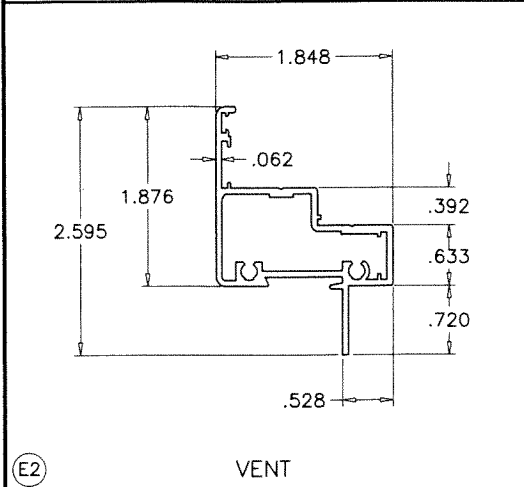
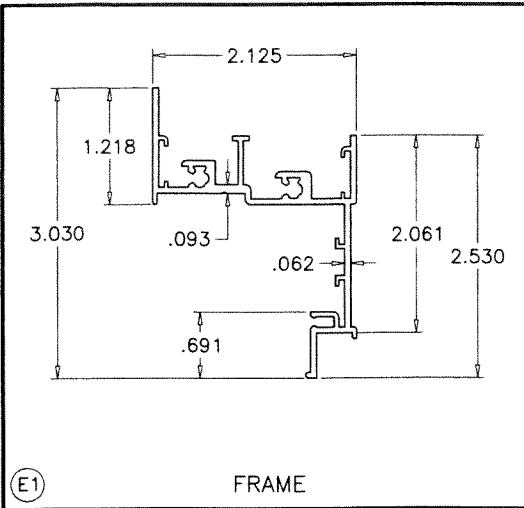
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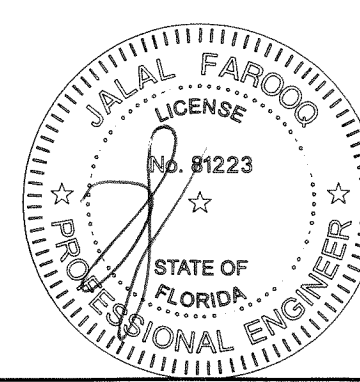
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