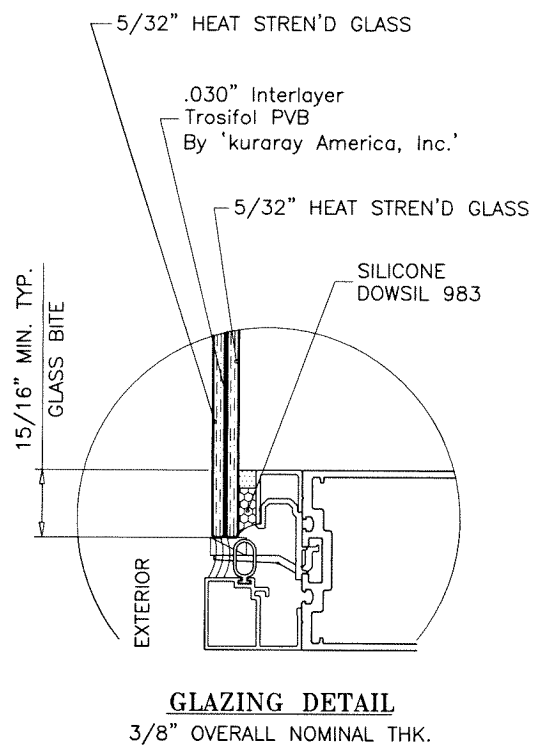




SERIES NS-25PV
ALUMINUM CURTAIN WALL SYSTEM

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH F.B.C. APPROVED NON IMPACT DOORS.
LOWER DESIGN PRESSURE FROM WINDOW WALL OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

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

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.

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.

THIS SYSTEM IS NOT RATED FOR IMPACT.
INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA SHALL MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

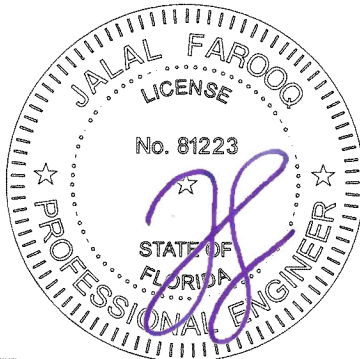
Sealed: 10/11/2023 FL #21890

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.

D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



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

SERIES NS-25PV ALUM CURTAIN WALL SYSTEM (N.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	
no	description
A	01.29.18 UPDATED TO 2017 FBC
B	12.04.20 UPDATED TO 2020 FBC
C	09.19.23 UPDATED TO 2023 FBC

date: 04-19-17

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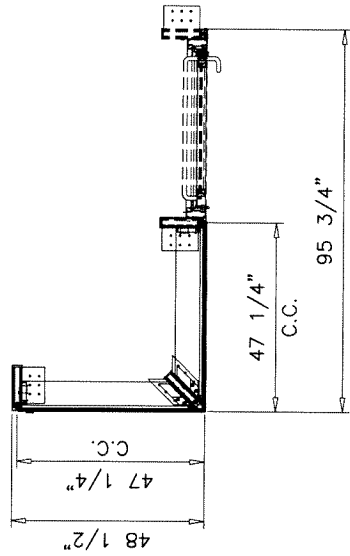
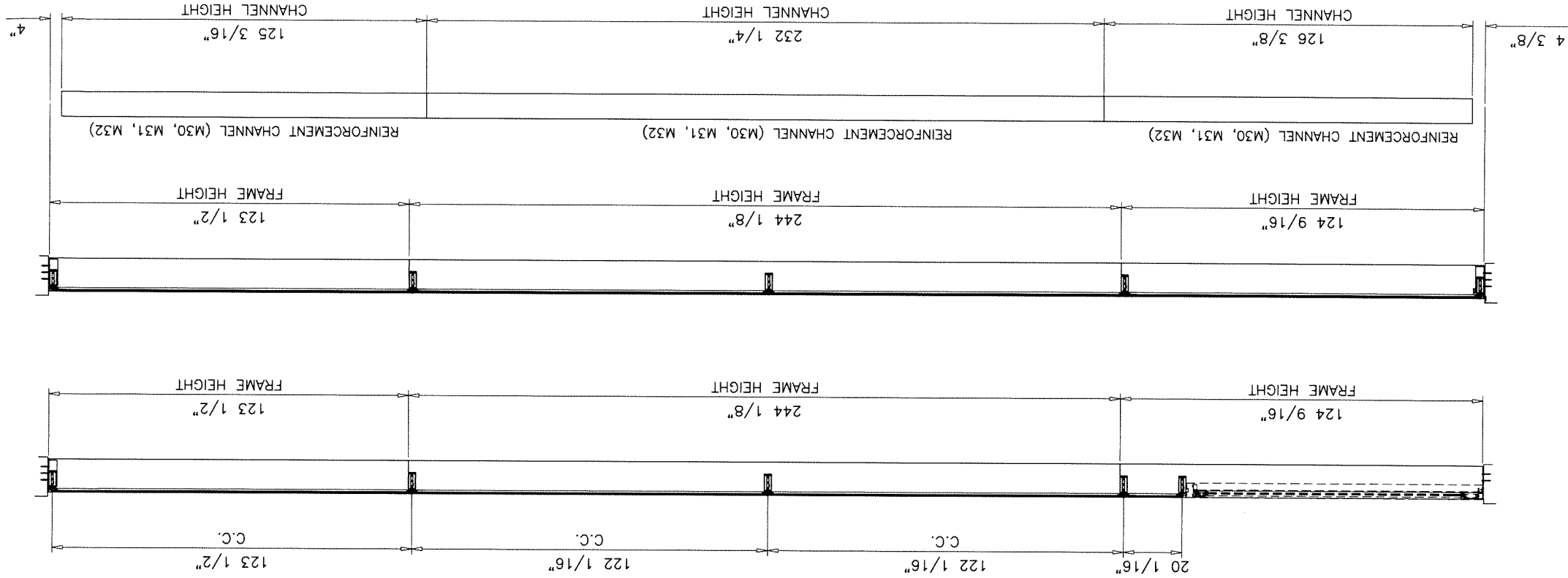
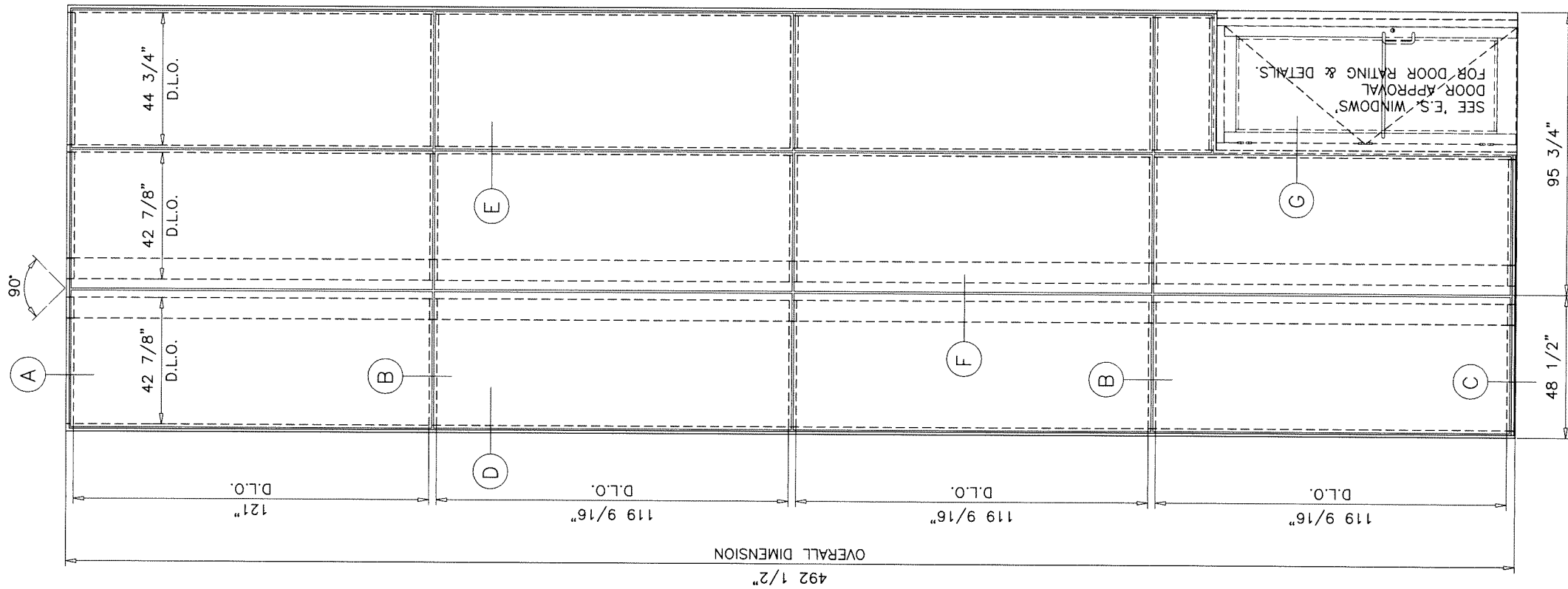
dr. by: TARIQ

chk. by:

drawing no.

W17-46

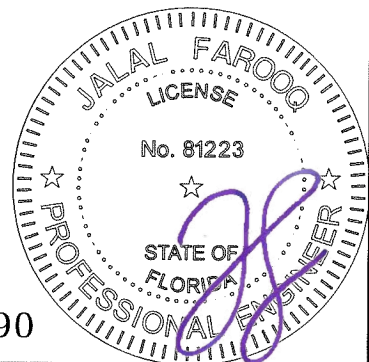
sheet 1 of 9



TYPICAL ELEVATION
TESTED UNIT

Sealed: 10/11/2023

FL #21890



date: 04-19-17	scale: 1/4"=1'-0"	dr. by: TARIQ	chk. by:
revisions:	no	date	by description

SERIES NS-25PV ALUM CURTAIN WALL SYSTEM (N.I.)

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AL-FAROOQ CORPORATION
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 TEL. (305) 264-8100 FAX. (305) 262-6978

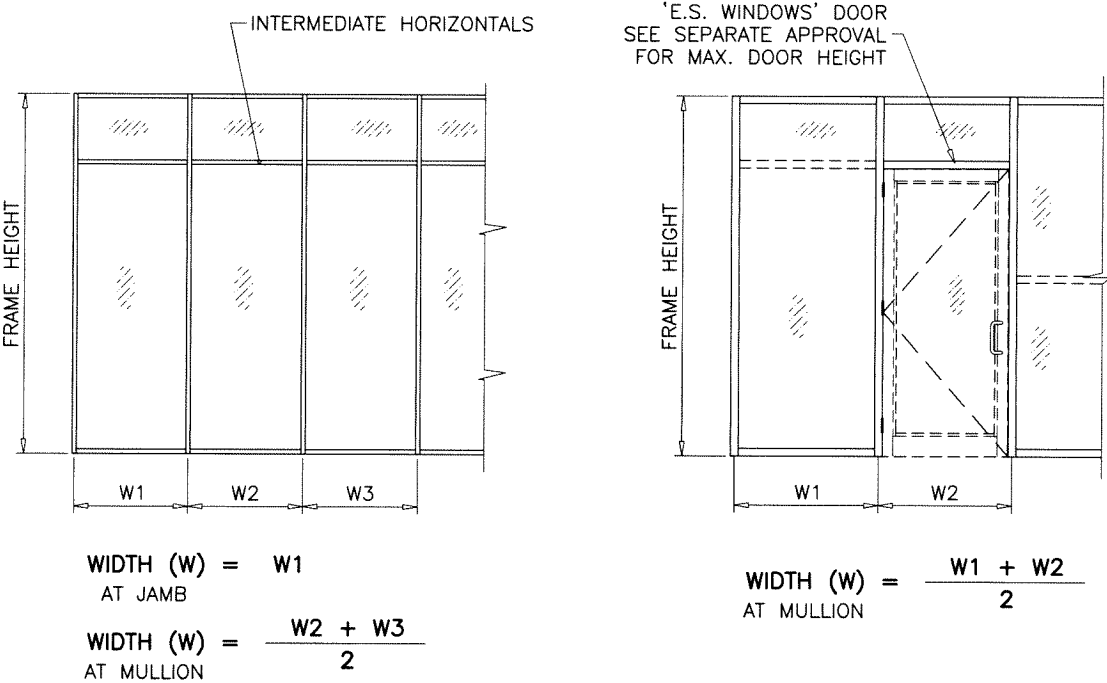
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drawing no.
W17-46
sheet 2 of 9

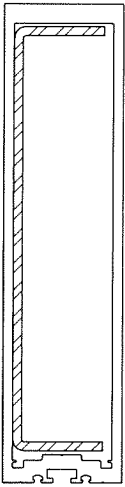
DESIGN LOAD CAPACITY - PSF SINGLE SPANS							
NOMINAL DIMS.		JAMB		MULLION		CORNER MULLION	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
30"	28'-0"	27.0	27.0	27.0	27.0	27.0	27.0
36"		27.0	27.0	27.0	27.0	27.0	27.0
42"		27.0	27.0	27.0	27.0	27.0	27.0
47-1/4"		27.0	27.0	27.0	27.0	27.0	27.0
48"		27.0	27.0	27.0	27.0	27.0	27.0
54"		27.0	27.0	27.0	27.0	27.0	27.0
60"		27.0	27.0	27.0	27.0	27.0	27.0
30"	30'-0"	27.0	27.0	27.0	27.0	27.0	27.0
36"		27.0	27.0	27.0	27.0	27.0	27.0
42"		27.0	27.0	27.0	27.0	27.0	27.0
47-1/4"		27.0	27.0	27.0	27.0	27.0	27.0
48"		27.0	27.0	27.0	27.0	27.0	27.0
54"		27.0	27.0	27.0	27.0	27.0	27.0
60"		27.0	27.0	27.0	27.0	27.0	27.0
30"	32'-0"	27.0	27.0	27.0	27.0	27.0	27.0
36"		27.0	27.0	27.0	27.0	27.0	27.0
42"		27.0	27.0	27.0	27.0	27.0	27.0
47-1/4"		27.0	27.0	27.0	27.0	27.0	27.0
48"		27.0	27.0	27.0	27.0	27.0	27.0
54"		27.0	27.0	27.0	27.0	27.0	27.0
60"		27.0	27.0	27.0	27.0	27.0	27.0
30"	34'-0"	27.0	27.0	27.0	27.0	27.0	27.0
36"		27.0	27.0	27.0	27.0	27.0	27.0
42"		27.0	27.0	27.0	27.0	27.0	27.0
47-1/4"		27.0	27.0	27.0	27.0	27.0	27.0
48"		27.0	27.0	27.0	27.0	27.0	27.0
54"		27.0	27.0	27.0	27.0	27.0	27.0
30"	36'-0"	27.0	27.0	27.0	27.0	27.0	27.0
36"		27.0	27.0	27.0	27.0	27.0	27.0
42"		27.0	27.0	27.0	27.0	27.0	27.0
47-1/4"		27.0	27.0	27.0	27.0	27.0	27.0
48"		27.0	27.0	27.0	27.0	27.0	27.0
54"		27.0	27.0	24.5	24.5	27.0	27.0
30"	38'-0"	27.0	27.0	27.0	27.0	27.0	27.0
36"		27.0	27.0	27.0	27.0	27.0	27.0
42"		27.0	27.0	27.0	27.0	27.0	27.0
47-1/4"		27.0	27.0	25.2	25.2	27.0	27.0
48"		27.0	27.0	24.8	24.8	27.0	27.0
30"	40'-0"	27.0	27.0	27.0	27.0	27.0	27.0
36"		27.0	27.0	27.0	27.0	27.0	27.0
42"		27.0	27.0	24.3	24.3	27.0	27.0
47-1/4"		26.3	26.3	21.6	21.6	27.0	27.0
48"		25.9	25.9	21.3	21.3	27.0	27.0
30"	41'-1/2"	27.0	27.0	27.0	27.0	27.0	27.0
36"		27.0	27.0	26.3	26.3	27.0	27.0
42"		27.0	27.0	22.5	22.5	27.0	27.0
47-1/4"		24.3	24.3	20.0	20.0	26.3	26.3
48"		24.0	24.0	19.7	19.7	25.9	25.9

INTERPOLATION BETWEEN WIDTHS AND HEIGHTS ALLOWED.

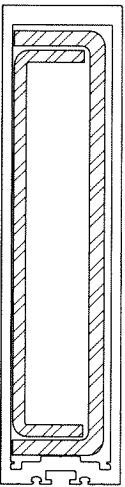
NOTE:
GLASS CAPACITIES ARE BASED ON
ASTM E1300-09 (3 SEC. GUSTS).



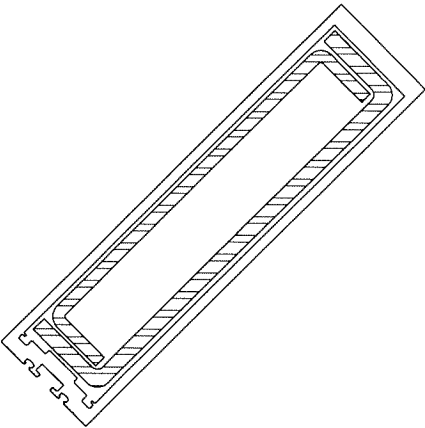
MAX. DOOR HEIGHTS FOR WINDOW WALL WITH DOORS
TO BE LIMITED TO THE MAX. APPROVED DOOR HEIGHTS.



JAMB



MULLION



CORNER MULLION

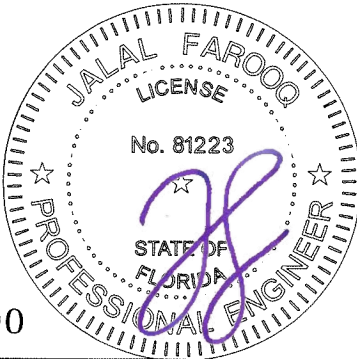
	Ix IN^4	Sx IN^3
ALUMINUM	71.6798	14.178
STEEL	22.3778	5.052
TOTAL Ix ALUM + Ix STL X 2.9	136.575	

	Ix IN^4	Sx IN^3
ALUMINUM	71.6798	14.178
STEEL	55.032	12.425
TOTAL Ix ALUM + Ix STL X 2.9	231.273	

	Ix IN^4	Sx IN^3
ALUMINUM	38.8423	8.724
STEEL	28.115	6.726
TOTAL Ix ALUM + Ix STL X 2.9	120.376	

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FL #21890



AL-FAROOQ CORPORATION
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SERIES NS-25PV ALUM CURTAIN WALL SYSTEM (N.I.)

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MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description

date: 04-19-17

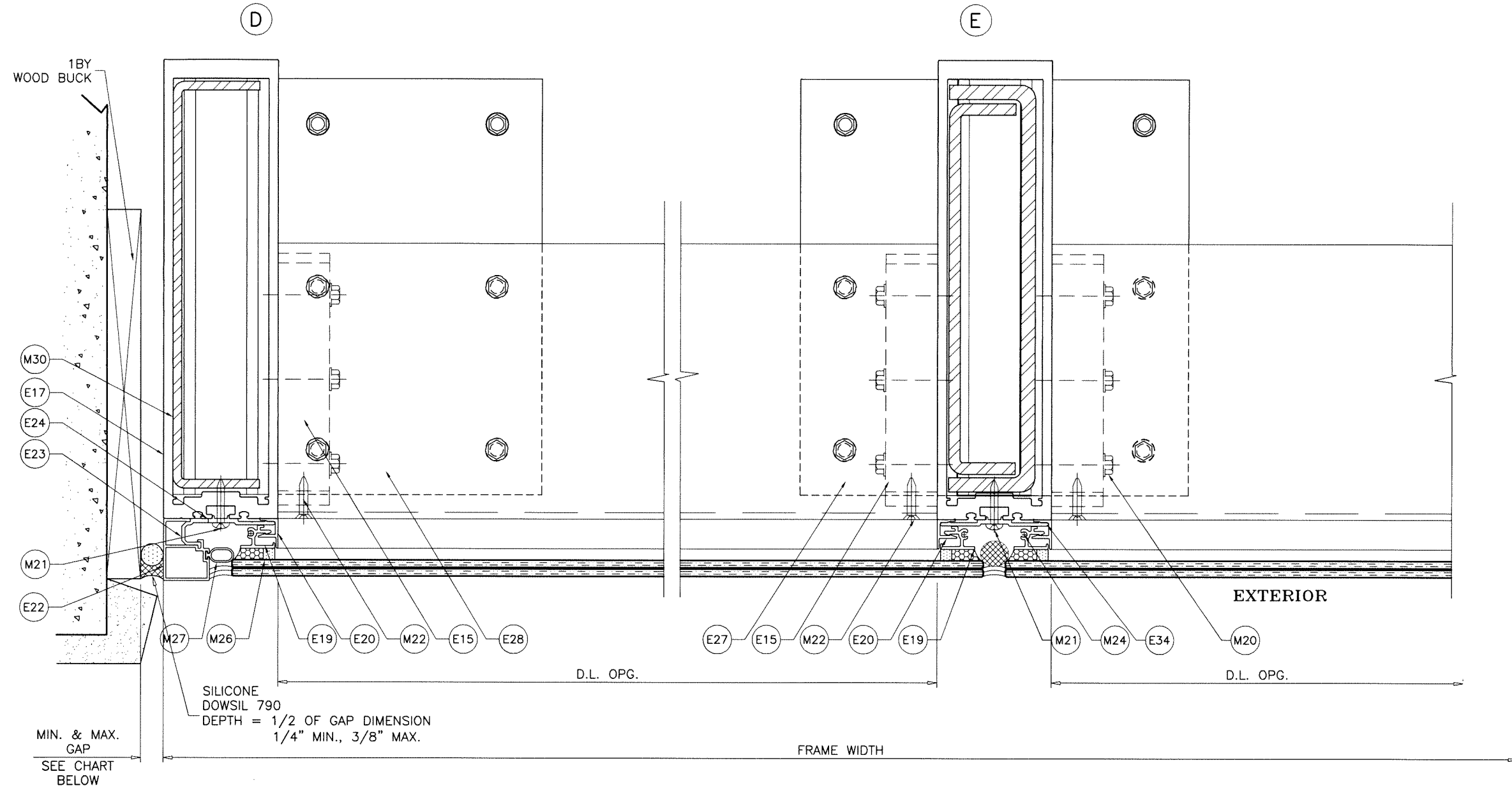
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dr. by: TARIQ

chk. by:

drawing no.
W17-46

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MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
120"	3/8"	1-1/2"
240"	3/4"	1-1/2"
360"	1-1/8"	1-1/2"
492-1/2"	1-1/2"	1-1/2"

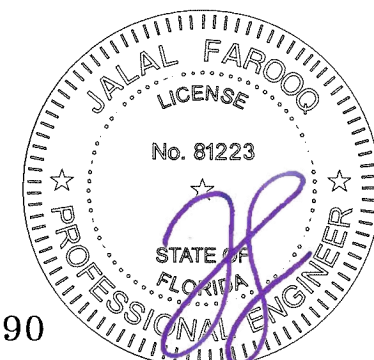
NOTE:
 MAX. MOVEMENT CONSIDERED=100% STRETCH.
 PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
 REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.

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FL #21890



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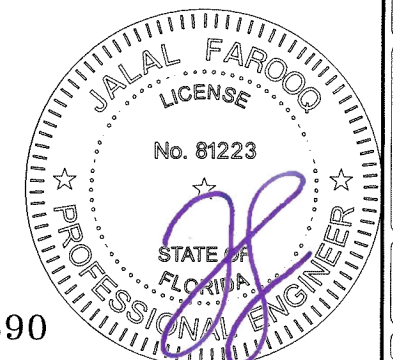
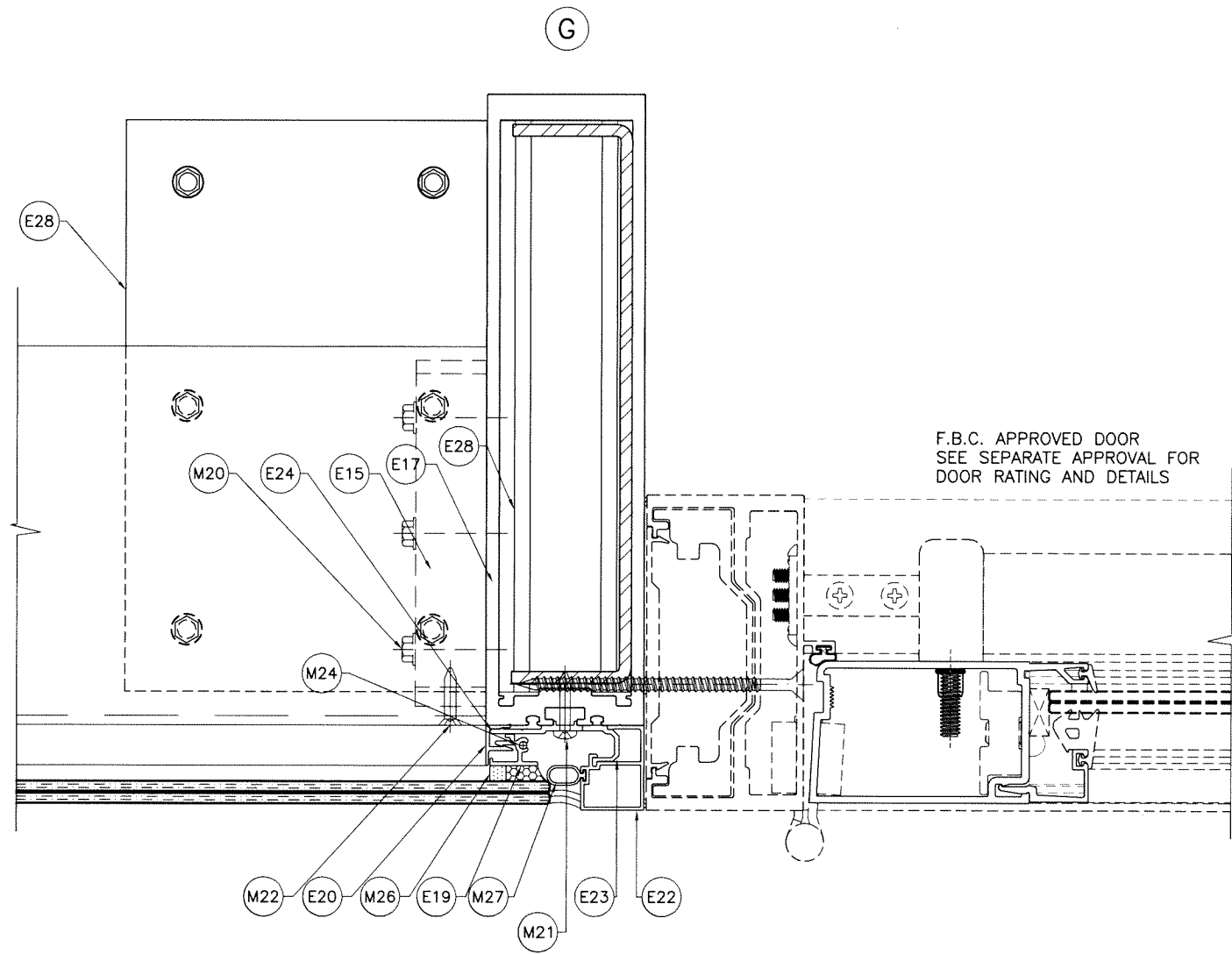
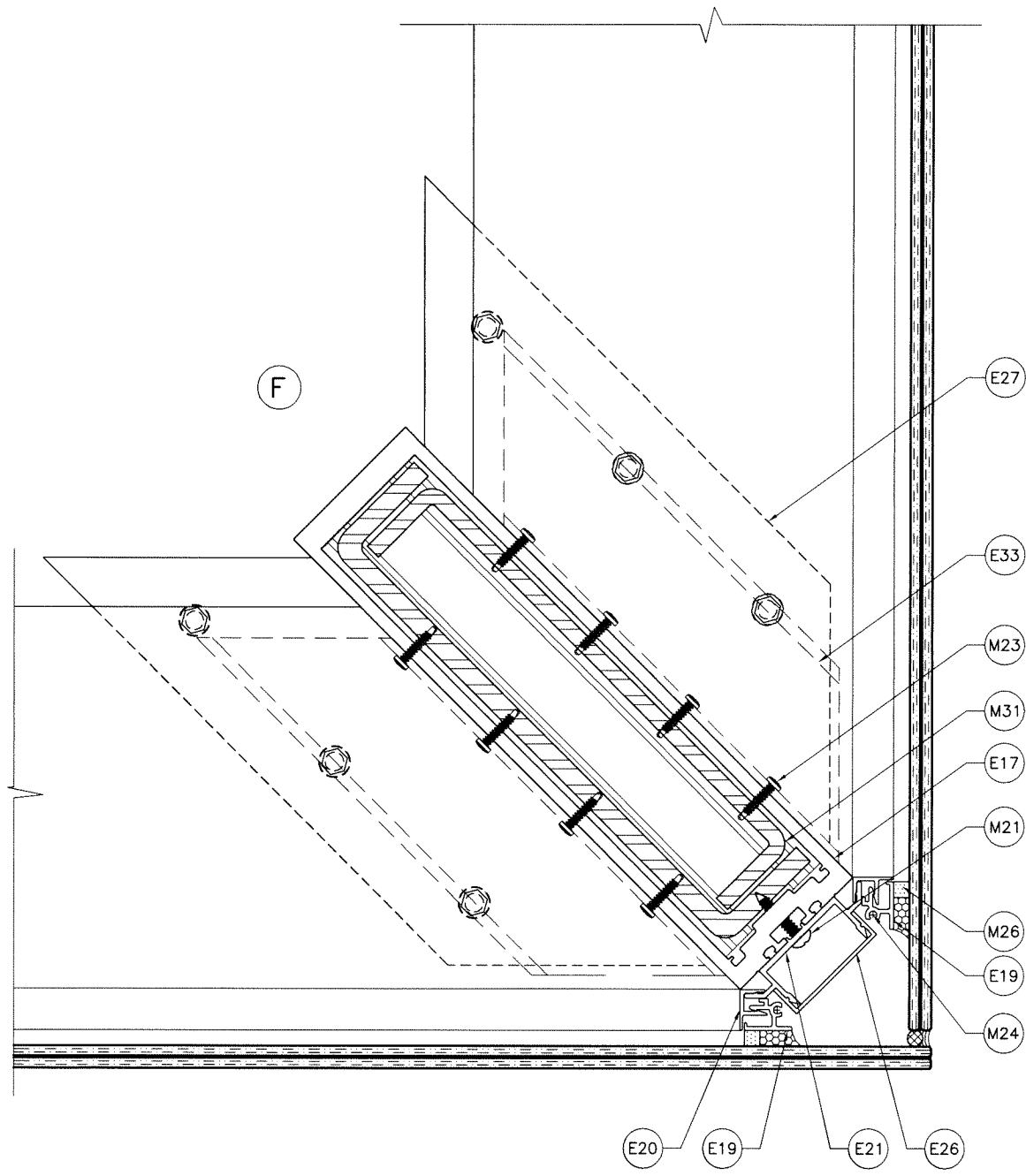
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revisions:	
no	date by description

date: 04-19-17	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
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W17-46	
sheet 5 of 9	



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FL #21890

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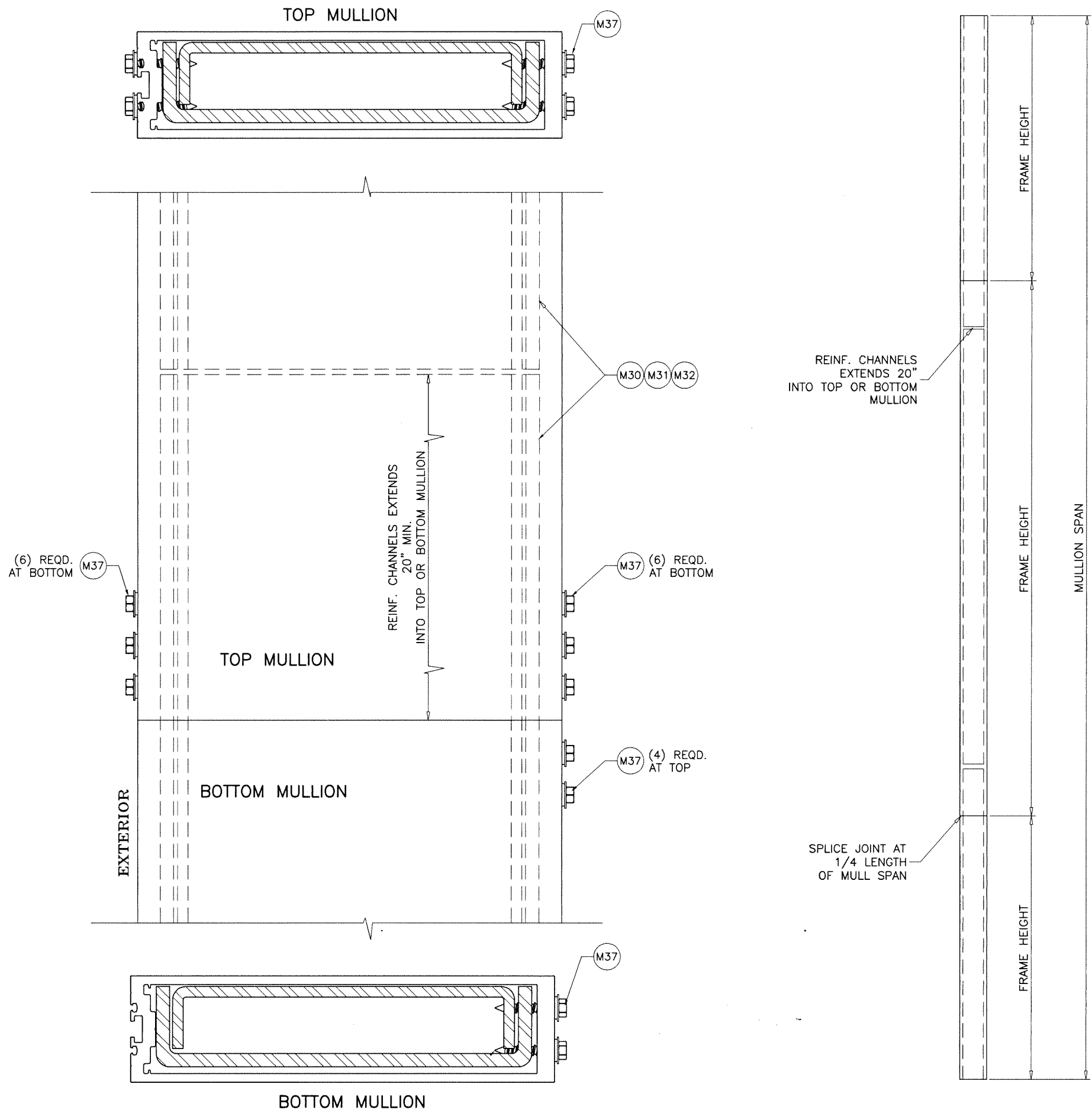
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chk. by:

drawing no.
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JAMB & MULLION JOINT

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FL #21890

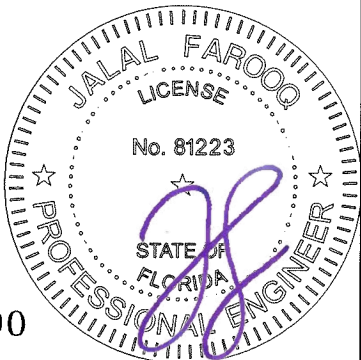


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SERIES NS-25PV ALUM CURTAIN WALL SYSTEM (N.I.) E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158																					
date: 04-19-17 scale: 3/8" = 1" dr. by: TARIQ chk. by:	revisions: <table border="1"> <thead> <tr> <th>no</th> <th>date</th> <th>by</th> <th>description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	no	date	by	description																
no	date	by	description																		
drawing no. W17-46 sheet 7 of 9																					

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E14	NS-25PV-001	AS REQD.	HORIZONTAL SUPPORT	6063-T6	-
E15	NS-25-203	AS REQD.	SHEAR BLOCK	6005-T5	-
E16	NS-25-103	AS REQD.	FRAME HEAD/SILL/HORIZONTAL	6063-T6	-
E17	NS-25-105	AS REQD.	JAMB/MULLION	6063-T6	-
E18	NS-25PV-003A	AS REQD.	HORIZONTAL SPACER	6063-T6	-
E19	NS-25PV-004A	AS REQD.	VERTICAL SPACER	6063-T6	-
E20	NS-25PV-005A	AS REQD.	SPACER COVER	6063-T5	-
E21	NS-25PV-006	AS REQD.	VERTICAL CORNER SUPPORT	6063-T5	-
E22	NS-25PV-009	AS REQD.	GUIDE	6063-T6	-
E23	NS-25PV-012	AS REQD.	1/2 BOTTOM FLANGE, AT 6" FROM ENDS & 30" O.C.	6063-T6	-
E24	NS-25PV-013	AS REQD.	1/2 SIDE FLANGE	6063-T6	-
E25	NS-25PV-014	AS REQD.	SETTING CHAIR, 4" LONG	6063-T6	-
E26	ES-F-454	AS REQD.	CORNER COVER	6063-T6	-
E27	NS-25-204	AS REQD.	MULLION ANCHOR CLIP	6005-T5	-
E28	NS-25-205	AS REQD.	JAMB ANCHOR CLIP	6005-T5	-
E29	ES-6025-009	AS REQD.	COVER	6063-T5	-
E30	NS-25-052	AS REQD.	PRESSURE PLATE	6063-T5	-
E31	U-074	AS REQD.	POCKET FILE	6063-T6	-
E32	NS-25PV-011	AS REQD.	FLANGE TOP	6063-T6	-
E33	AAC-A-027	AS REQD.	HORIZ. ATTACHMENT ANGLE AT CORNER MULLION	6063-T6	-
E34	NS-25PV-002	AS REQD.	VERTICAL SUPPORT	6063-T6	-
M20	1/4-20 X 1-1/2"	3/ BLOCK	SHEAR BLOCK FASTENERS	ST. STEEL	HH MS
M21	#10 X 1"	AS REQD.	SUPPORT FASTENERS, AT 3" FROM ENDS & 10" O.C.	ST. STEEL	PH SMS
M22	#12 X 3/4"	2/ BLOCK	SHEAR BLOCK ATTACHMENT FASTENERS	ST. STEEL	FH SMS
M23	#10 X 3/4"	4/ ANGLE	ATTACHMENT FASTENERS	ST. STEEL	PH SELF DRILLING SCREWS
M24	#6 X 1/2"	AS REQD.	COVER FASTENERS	ST. STEEL	PH SMS
M25	#10 X 1-1/2"	AS REQD.	PRESSURE PLATE FASTENERS	ST. STEEL	PH SMS
M26	1/4" X 1/4"	AS REQD.	DOUBLE FACE TAPE	-	-
M27	-	AS REQD.	PERIMETER SEAL	SILICONE	-
M28	NS-25-G03	AS REQD.	INSULATOR GASKET	EPDM	DUROMETER 70±5 SHORE A
M29	80-378	2/ LITE	SETTING BLOCK AT 2" FROM ENDS	EPDM	DUROMETER 80±5 SHORE A
M30	-	AS REQD.	REINFORCEMENT CHANNEL (JAMB)	GALV. STEEL	-
M31	-	AS REQD.	REINFORCEMENT CHANNEL (MULLION)	GALV. STEEL	-
M32	-	AS REQD.	REINFORCEMENT CHANNEL (MULLION)	GALV. STEEL	-
M35	#14 X 4-9/16"	AS REQD.	BOLT ASSEMBLY	ST. STEEL	FH SELF DRILLING SCREWS
M36	#10 X 1/2"	AS REQD.	ASSEMBLY FASTENERS	ST. STEEL	FH SMS
M37	1/4-16 X 1-1/2"	AS REQD.	ASSEMBLY FASTENERS	ST. STEEL	FH SMS

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FL #21890



revisions:

no	date	by	description

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chk. by:

SERIES NS-25PV ALUM CURTAIN WALL SYSTEM (N.I.)

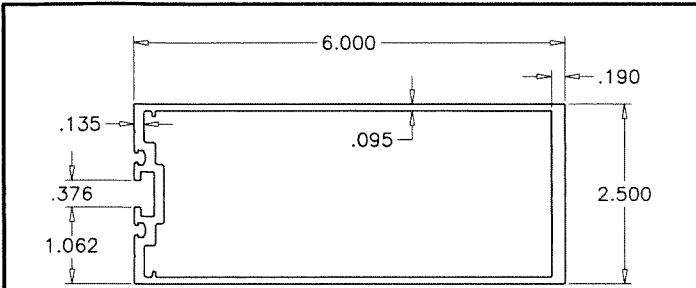
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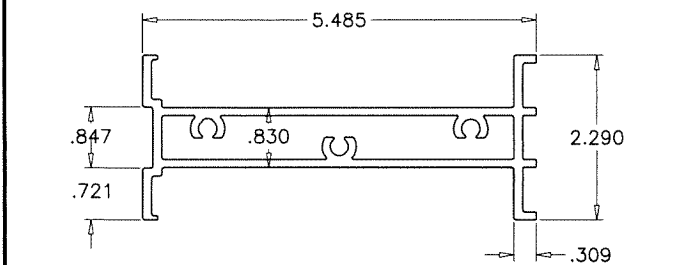
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drawing no.
W17-46

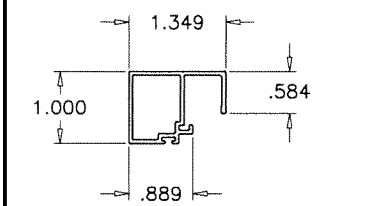
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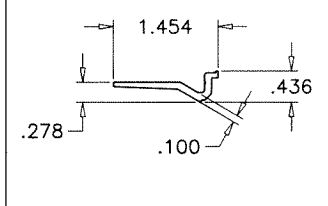
E16 HEAD/SILL/HORIZONTAL



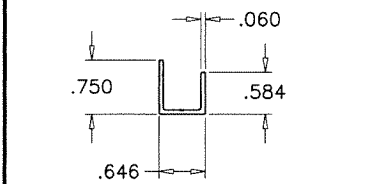
E07 SHEAR BLOCK



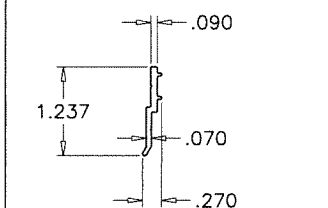
E22 GUIDE



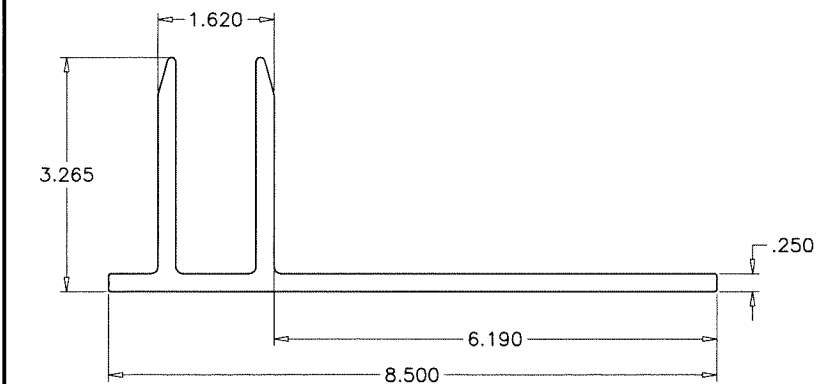
E25 SETTING CHAIR



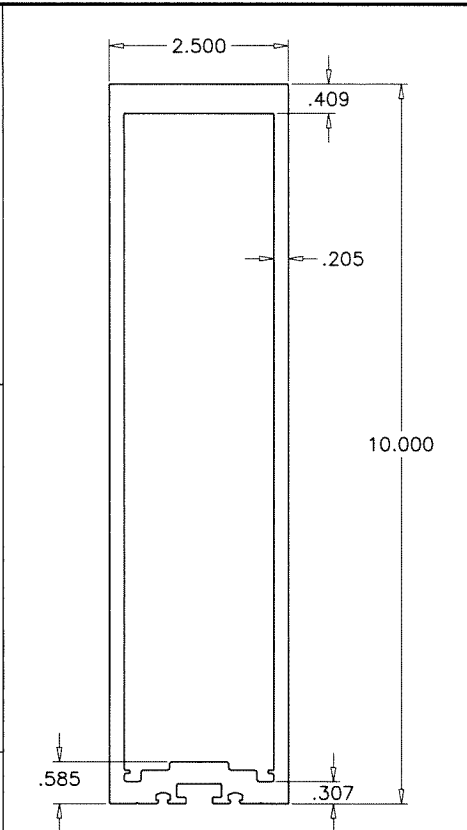
E18 HORIZONTAL SPACER



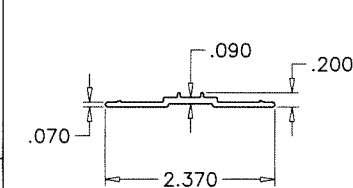
E32 FLANGE TOP



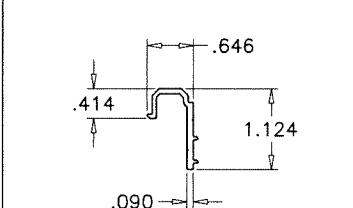
E28 JAMB ANCHOR



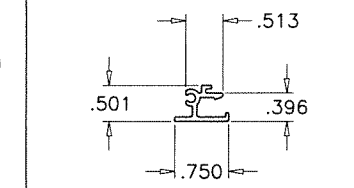
E17 JAMB/MULLION



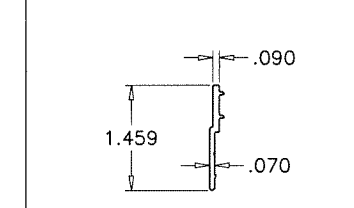
E34 VERTICAL SUPPORT



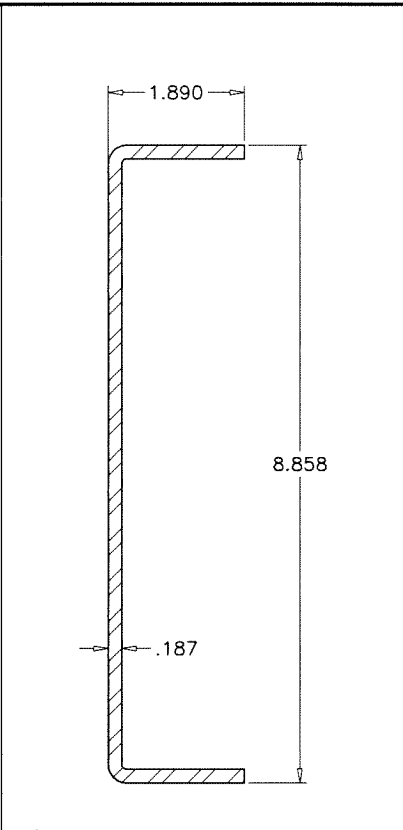
E23 1/2 BOTTOM FLANGE



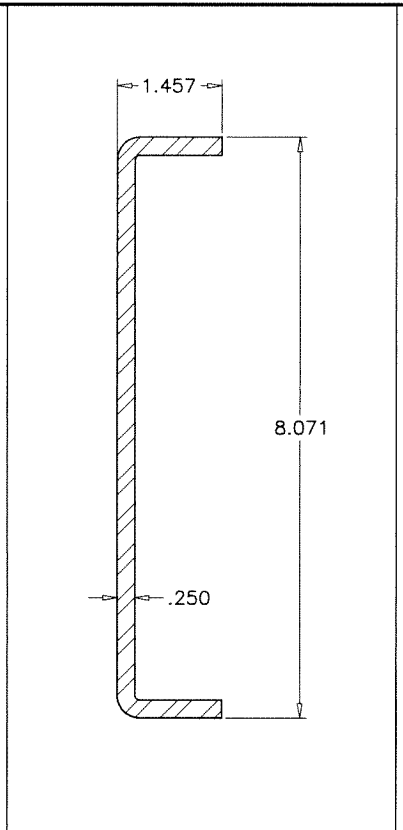
E19 VERTICAL SPACER



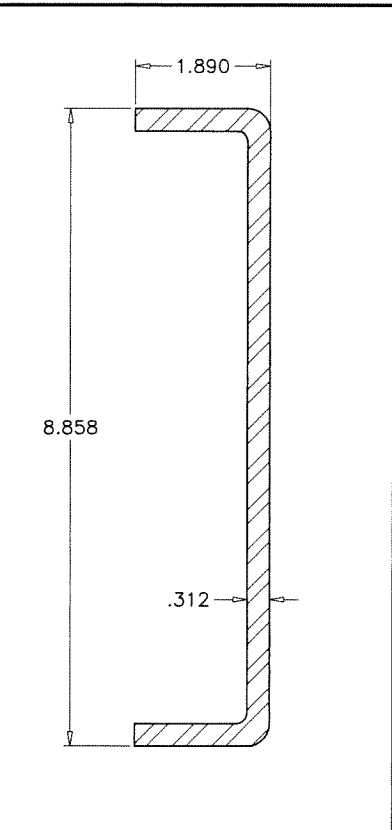
E24 1/2 SIDE FLANGE



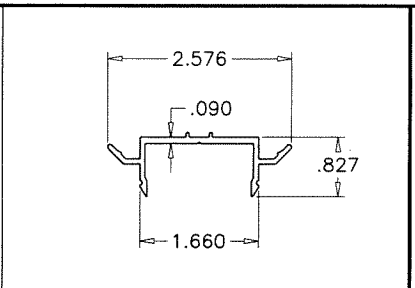
M30 REINF. CHANNEL (JAMB)



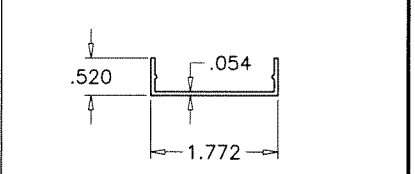
M31 REINF. CHANNEL (MULLION)



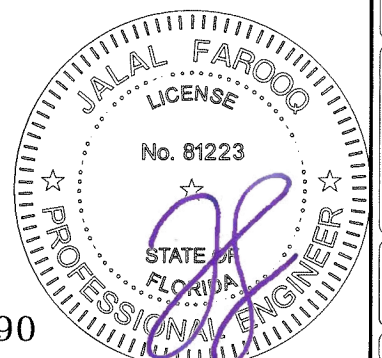
M32 REINF. CHANNEL (MULLION)



E21 VERTICAL CORNER SUPPORT



E26 CORNER COVER



Sealed: 10/11/2023

FL #21890

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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STORE W17-46ES

SERIES NS-25PV ALUM CURTAIN WALL SYSTEM (N.I.)

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

revisions:	
no	date

date: 04-19-17

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.
W17-46

sheet 9 of 9