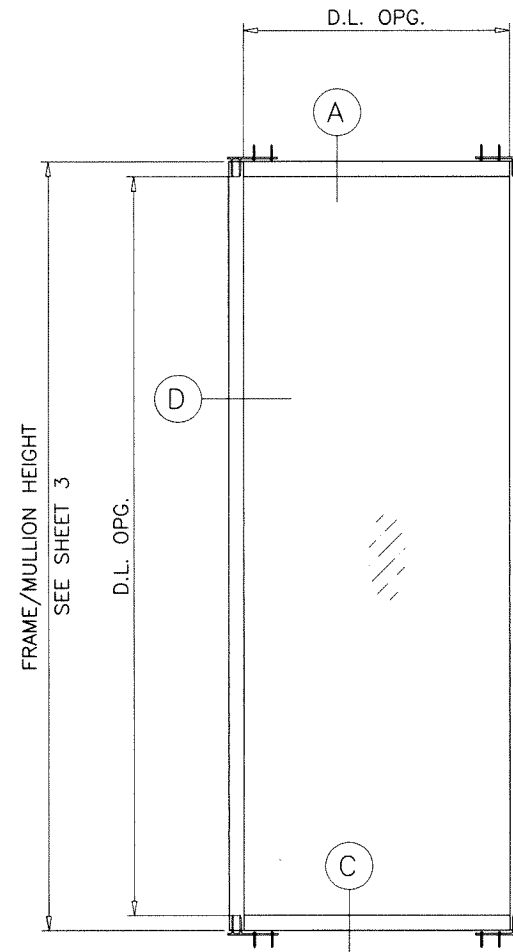
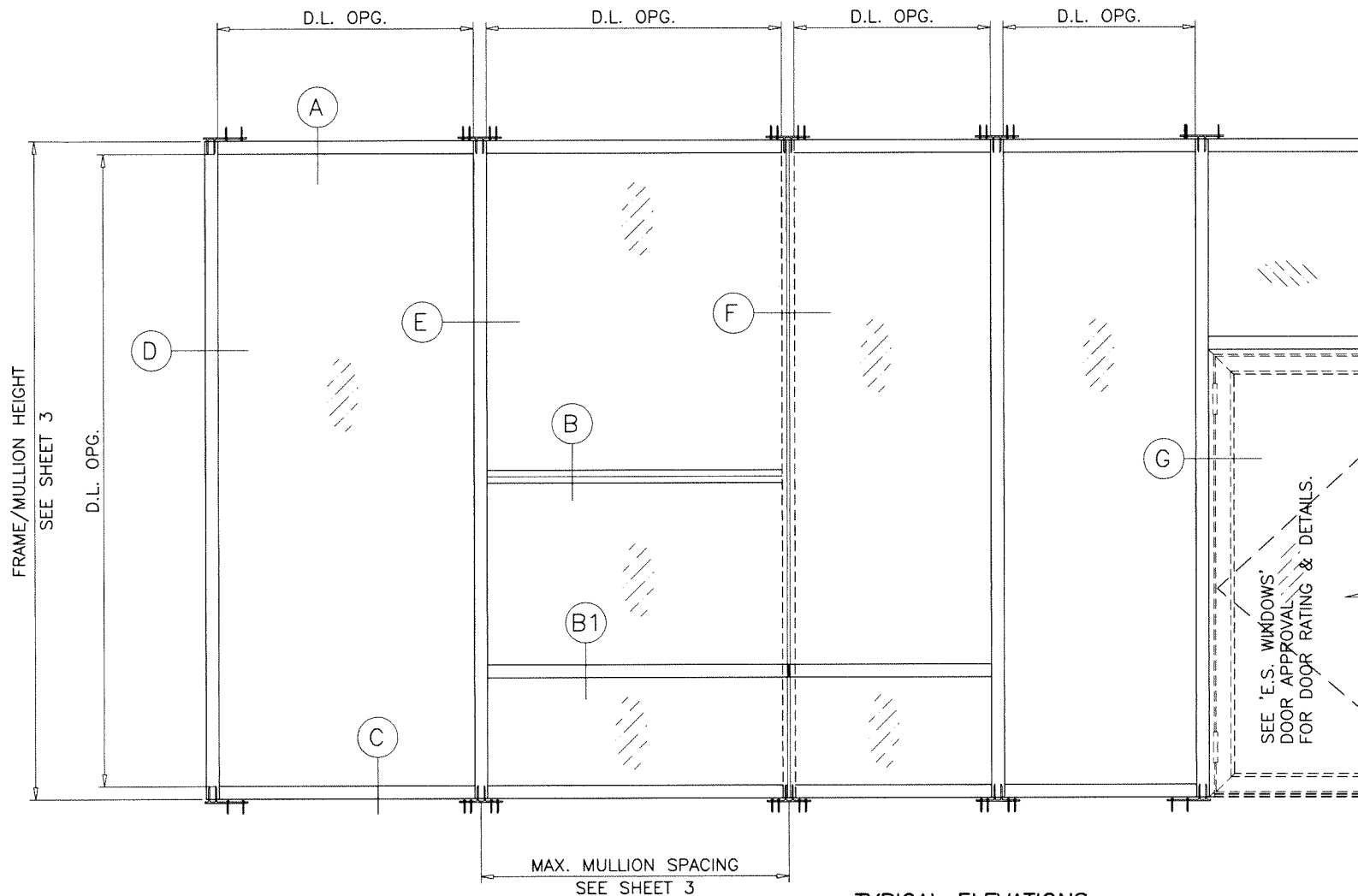




TYPICAL ELEVATIONS
SINGLE SPAN

SERIES NS 25-8 CURTAIN WALL STICK 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.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND PRESSURE REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 3 FOR GLASS DESIGN LOAD CAPACITY.
- STEP 3** CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3 FOR SINGLE SPANS AND SHEET 4 FOR MULTIPLE SPANS THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** FOR INTERMEDIATE ANCHORS AT MULTIPLE SPANS SEE SHEETS 7 THRU 10 FOR CAPACITY AND DETAIL.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.
- STEP 6** FOR SYSTEMS WITH UNANCHORED JAMBS, USING SHEET 7, DETERMINE THE MIN. & MAX. GAP DIMENSIONS.
- STEP 7** WHEN USING THIS SYSTEM WITH DOORS, THE LOWER VALUE OF THE DESIGN PRESSURE RATING FOR THE SYSTEM AND THE DOOR SHALL APPLY.

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

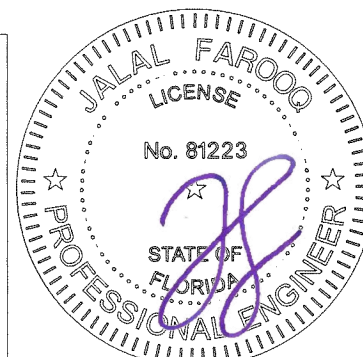
FL #21890

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.



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

a f c

COMP-ANL\W15-106ESW

SERIES NS 25-8 CURTAIN WALL STICK SYS. (N.I.)

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

date: 12-01-15

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dr. by: TARIQ

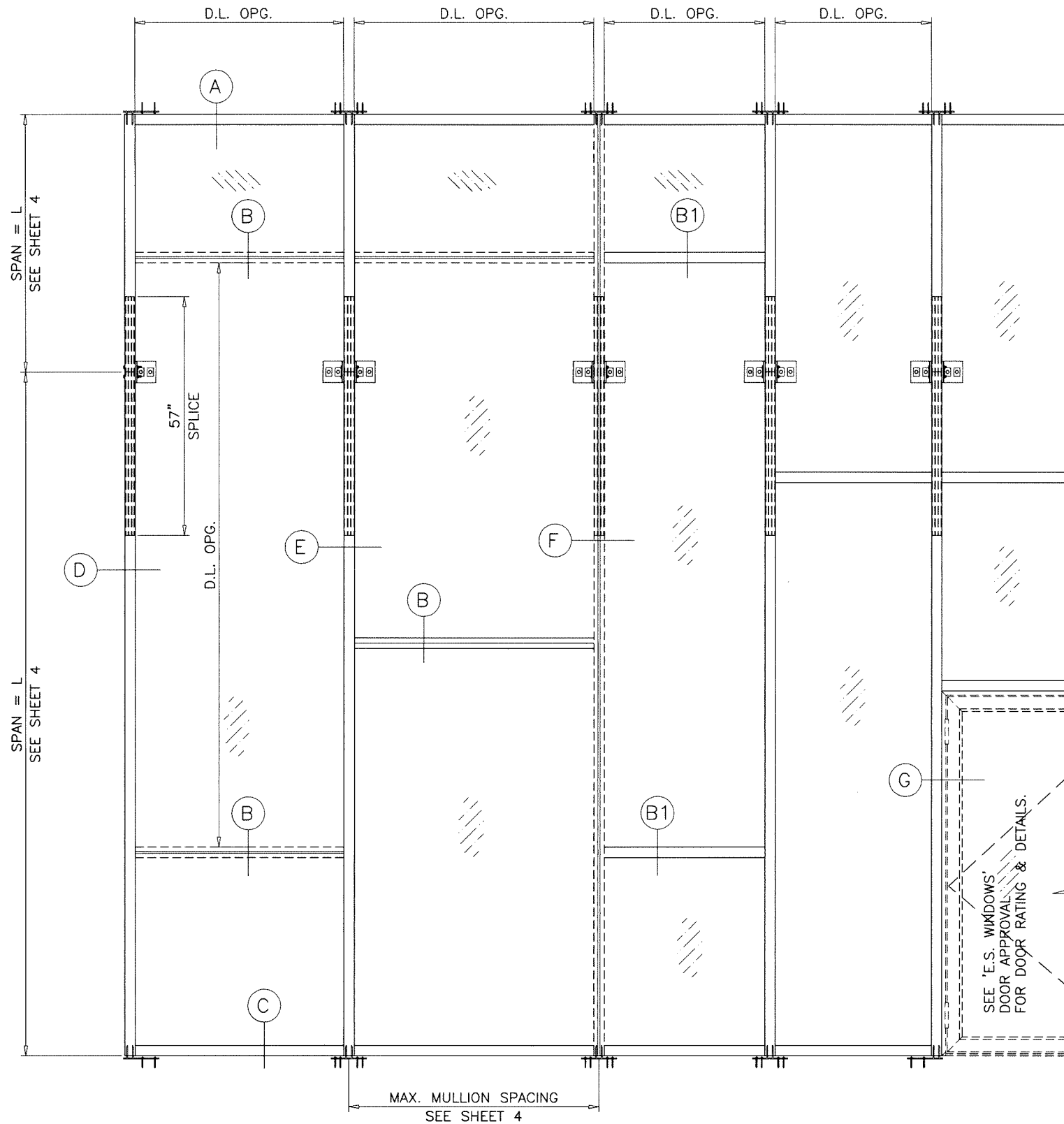
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revisions:

no	date	description
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B	12.04.20	UPDATED TO 2020 FBC
C	09.19.23	UPDATED TO 2023 FBC

drawing no.
W15-106

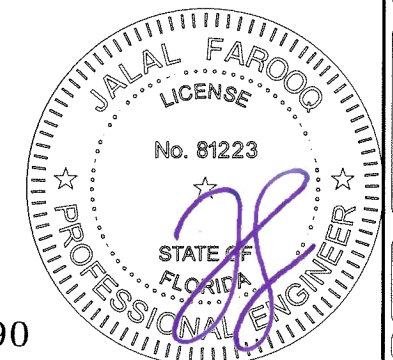
sheet 1 of 12



TYPICAL ELEVATION
TWIN SPANS

Sealed: 10/11/2023

FL #21890



SERIES NS 25-8 CURTAIN WALL STICK SYS. (N.I.)

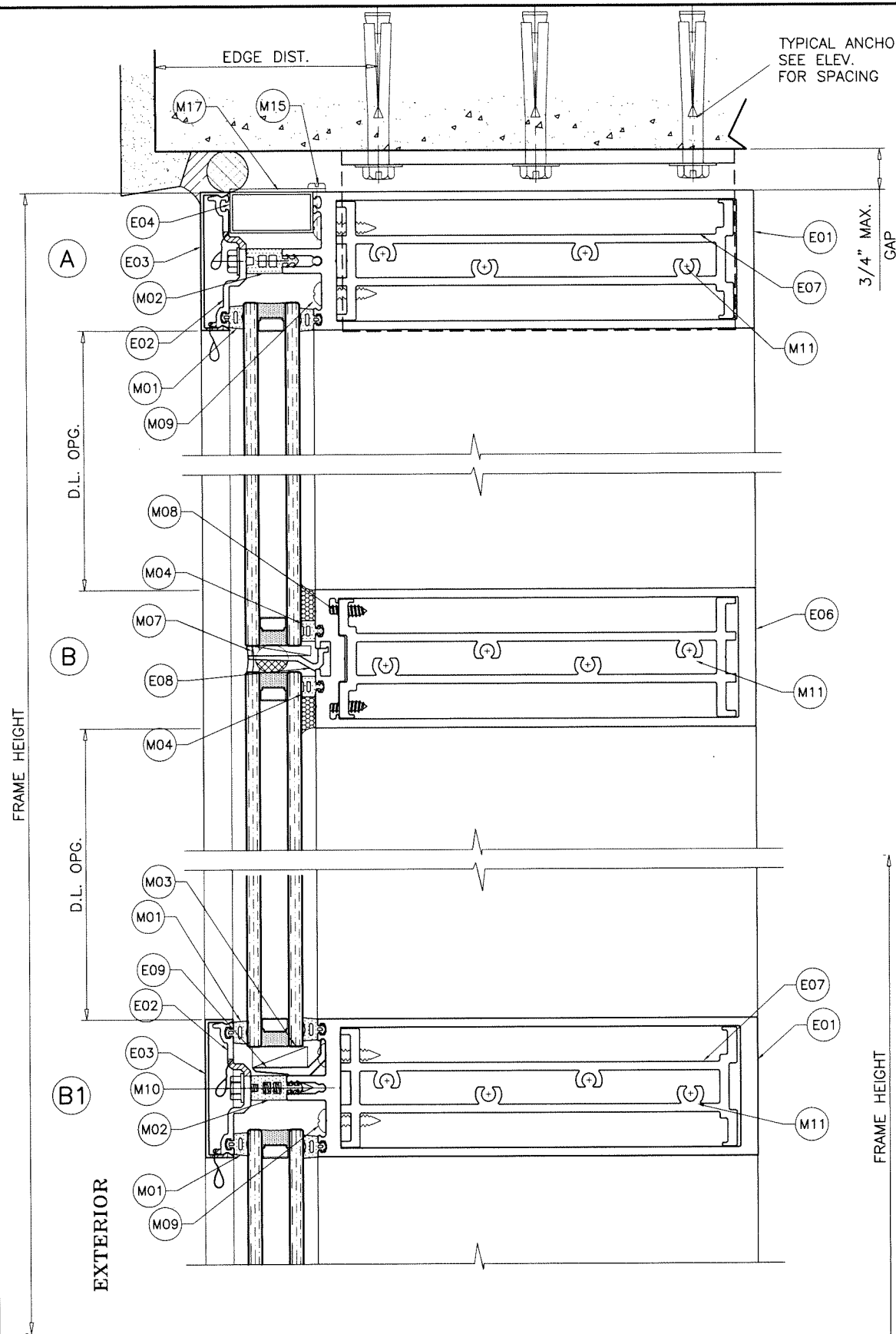
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AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W15-106ESW

revisions:		date		by description	
no	date	no	date	by	description

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chk. by:

drawing no.
W15-106
sheet 2 of 12

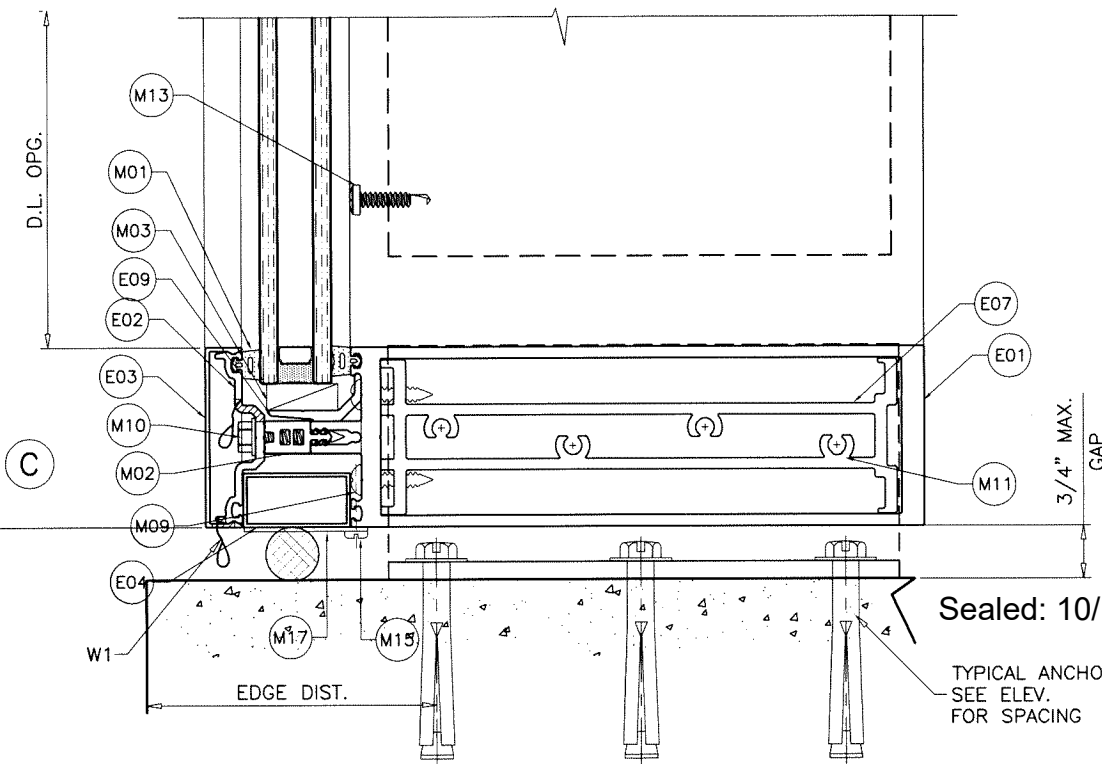


WEEPHOLES:

W1 = (2) 5/16" DIA. WEEP HOLES AT 1/3 POINTS

TYPICAL ANCHORS
SEE ELEV.
FOR SPACING

FRAME HEIGHT



Sealed: 10/11/2023

TYPICAL ANCHORS
SEE ELEV.
FOR SPACING

ANCHORS TYPE 'A' & 'B'
JAMB CLIP ANCHORS

ANCHORS TYPE 'A' & 'B'
MULLION CLIP ANCHORS

ANCHOR 'A'

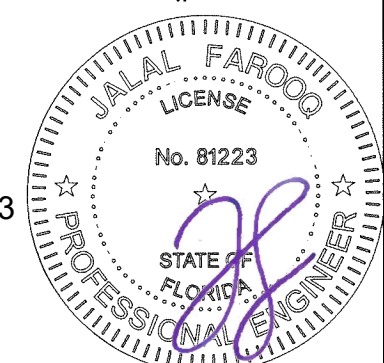
DIRECTLY INTO CONCRETE
3/8" DIA. KWIK BOLT-3 EXPANSION ANCHOR BY 'HILTI'
(3) PER SIDE
WITH 2-1/2" MIN. EMBED INTO CONCRETE.
2-1/2" MIN. EDGE DIST.
3" MIN. SPACING

ANCHOR 'B'

INTO METAL STRUCTURES (STEEL 1/4" MIN. THICKNESS)
3/8" DIA. SMS OR SELF-DRILLING SCREWS (GRADE 5)
(3) PER SIDE
1/2" MIN. EDGE DIST.
3/4" MIN. SPACING

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

FL #21890



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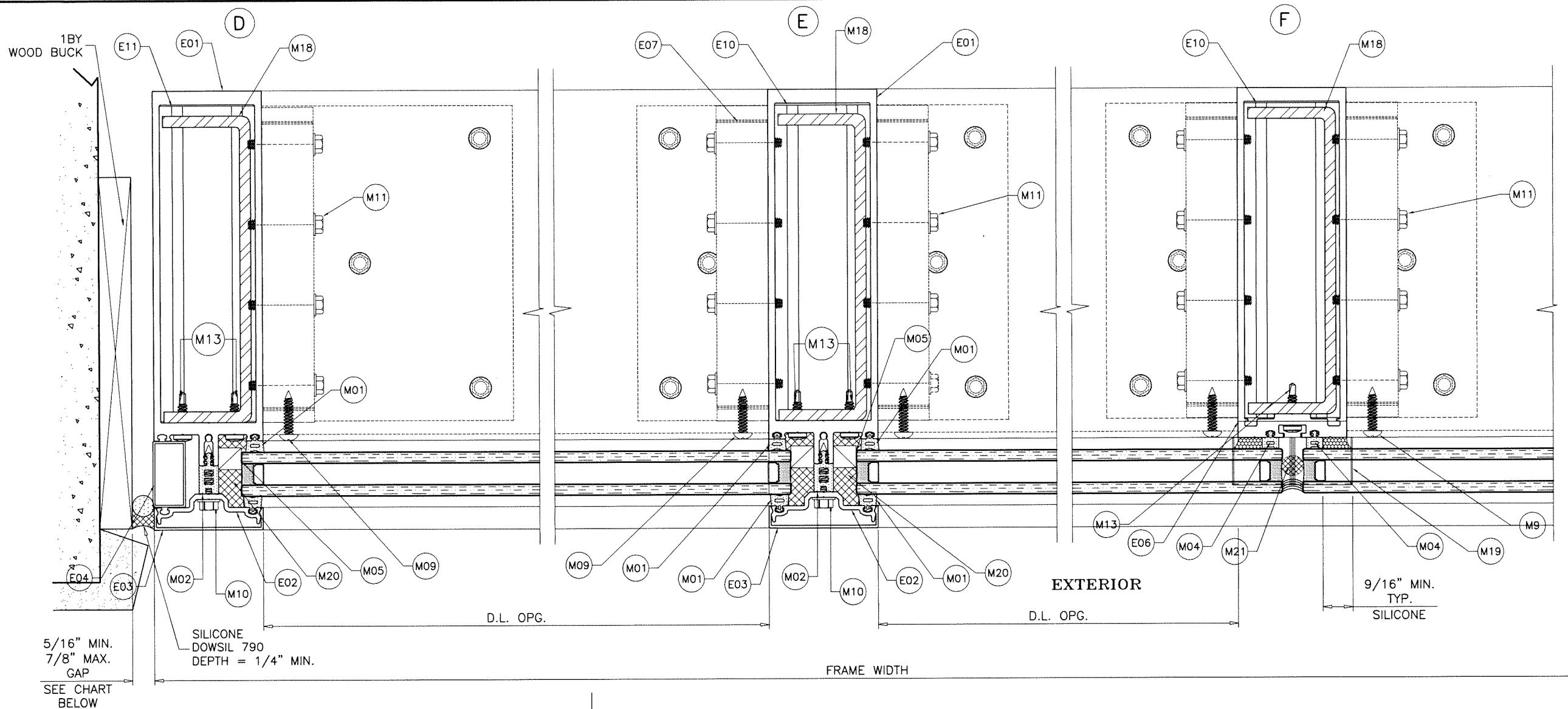
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

COMP-ANL\W15-106ESW

Revisions:
no date by description

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dr. by: TARIQ
chk. by:

drawing no.
W15-106
sheet 5 of 12

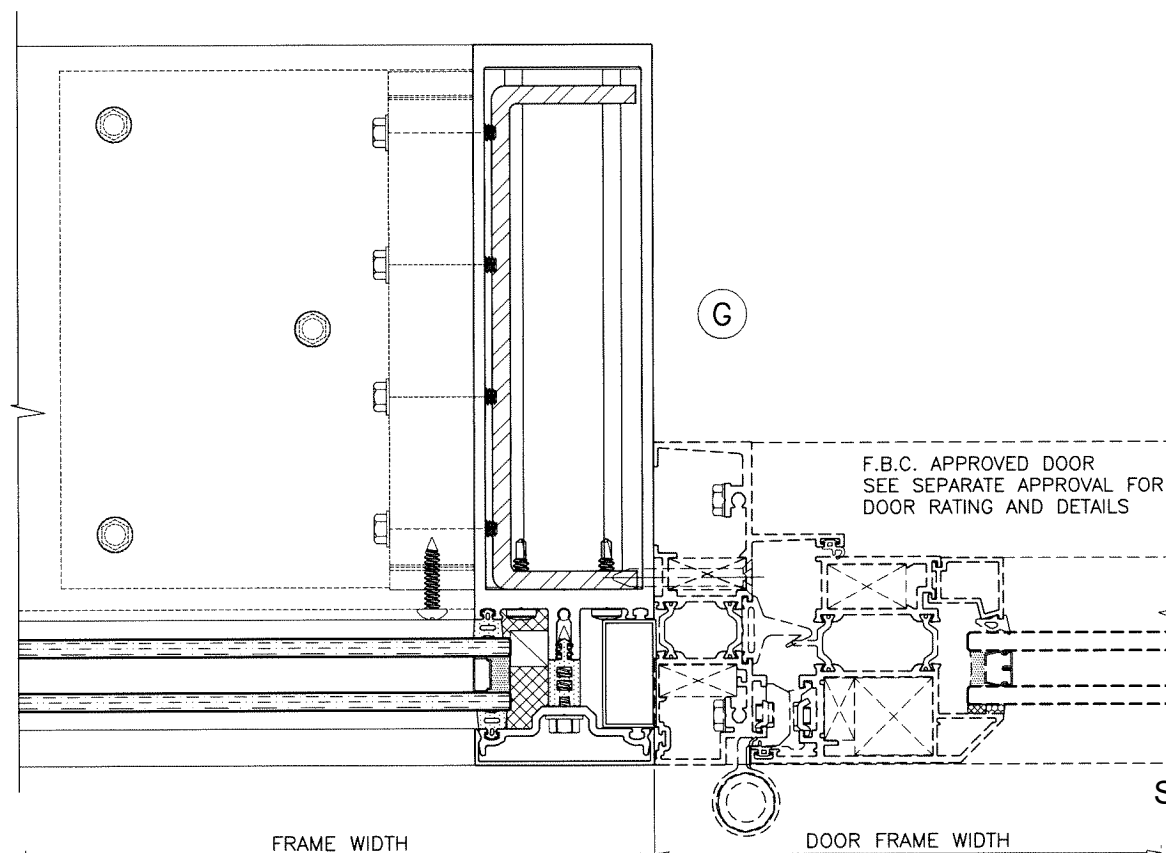


MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
120"	3/8"	7/8"
144"	1/2"	7/8"
168"	5/8"	7/8"
192"	5/8"	7/8"
216"	5/8"	7/8"
269-1/4"	3/4"	7/8"

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.

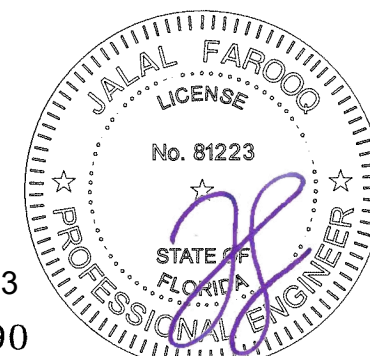
ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

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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 (C.A.N. 3538)
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 COMP-ANL W15-106ESW

SERIES NS 25-8 CURTAIN WALL STICK SYS. (N.I.)

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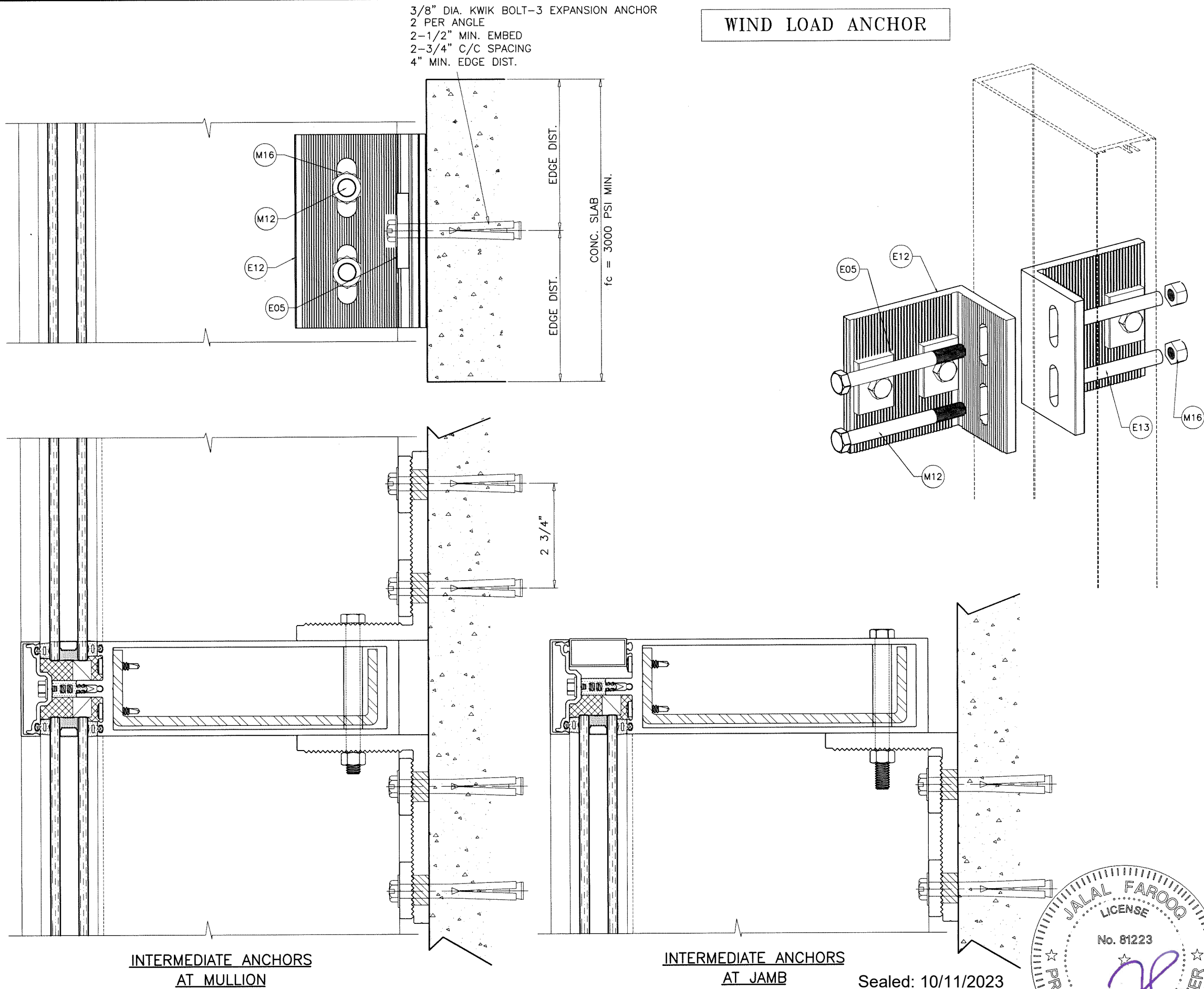
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 dr. by: TARIQ
 chk. by:

drawing no.
W15-106
 sheet 6 of 12

ANCHORS LOAD CAPACITY - PSF		
NOMINAL DIMS.		ANCHOR TYPE 'A'
WIDTH (W)	FRAME HEIGHT	EXT.(+)/INT.(-)
30"	96"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	120"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	138"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	144"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	168"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		50.0
60"		45.0
30"	192"	52.5
36"		52.5
42"		52.5
48"		49.3
54"		43.8
60"		39.4
30"	216"	52.5
36"		52.5
42"		50.0
48"		43.8
54"		38.9
30"	240"	52.5
36"		52.5
42"		45.0
48"		39.4
30"	269-1/4"	52.5
36"		46.8
42"		40.1

INTERPOLATION BETWEEN WIDTHS AND HEIGHTS ALLOWED.



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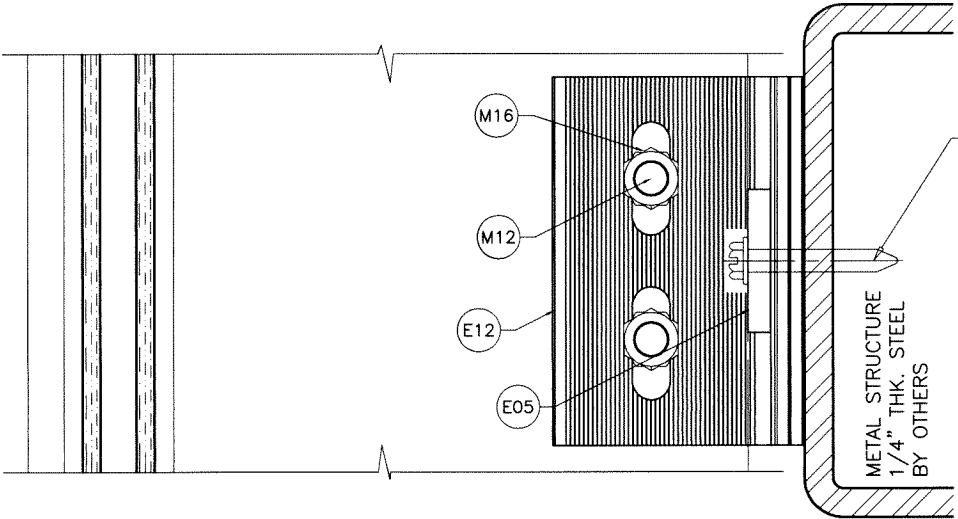
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chk. by:

drawing no.
W15-106
sheet 7 of 12

ANCHORS LOAD CAPACITY - PSF		
NOMINAL DIMS.		ANCHOR TYPE 'B'
WIDTH (W)	FRAME HEIGHT	EXT.(+)/INT.(-)
30"	96"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	120"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	138"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	144"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	168"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	192"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	216"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	240"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
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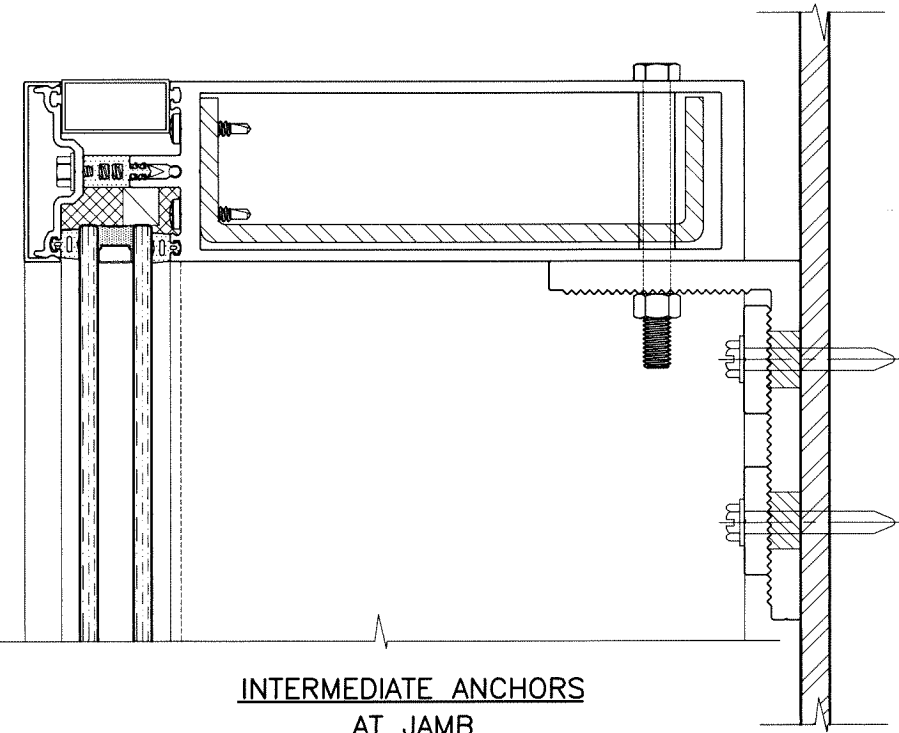
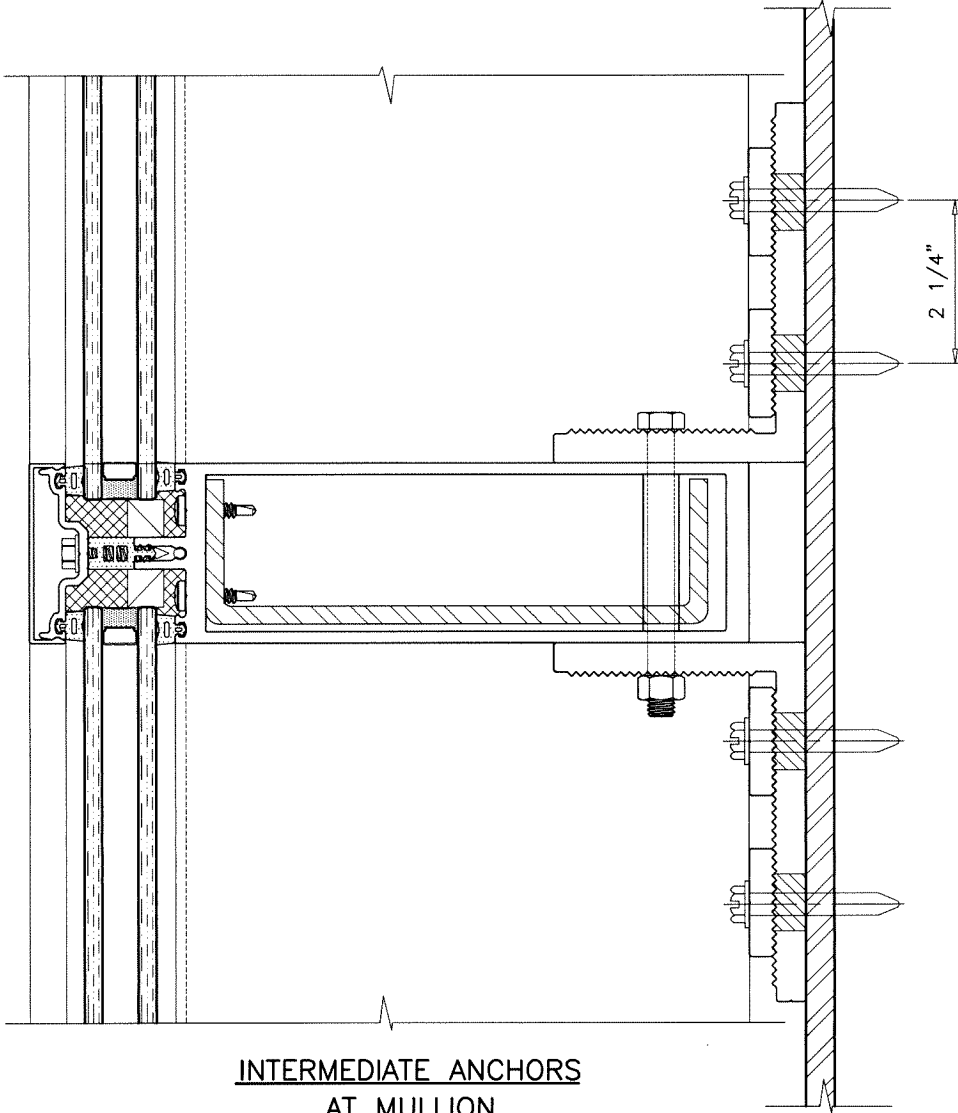
INTERPOLATION BETWEEN WIDTHS AND HEIGHTS ALLOWED.



INTERMEDIATE ANCHORS
AT MULLION

3/8" DIA. SMS OR
SELF-DRILLING SCREW (GRADE 5)
2 PER ANGLE
2-1/4" C/C SPACING
3/4" MIN. EDGE DIST.

METAL STRUCTURE
1/4" THK. STEEL
BY OTHERS

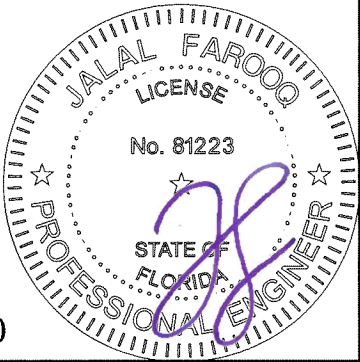


INTERMEDIATE ANCHORS
AT JAMB

ANCHORS INTO METAL STRUCTURES
COMMERCIAL STEEL - 1/4" MIN. THICKNESS

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FL #21890



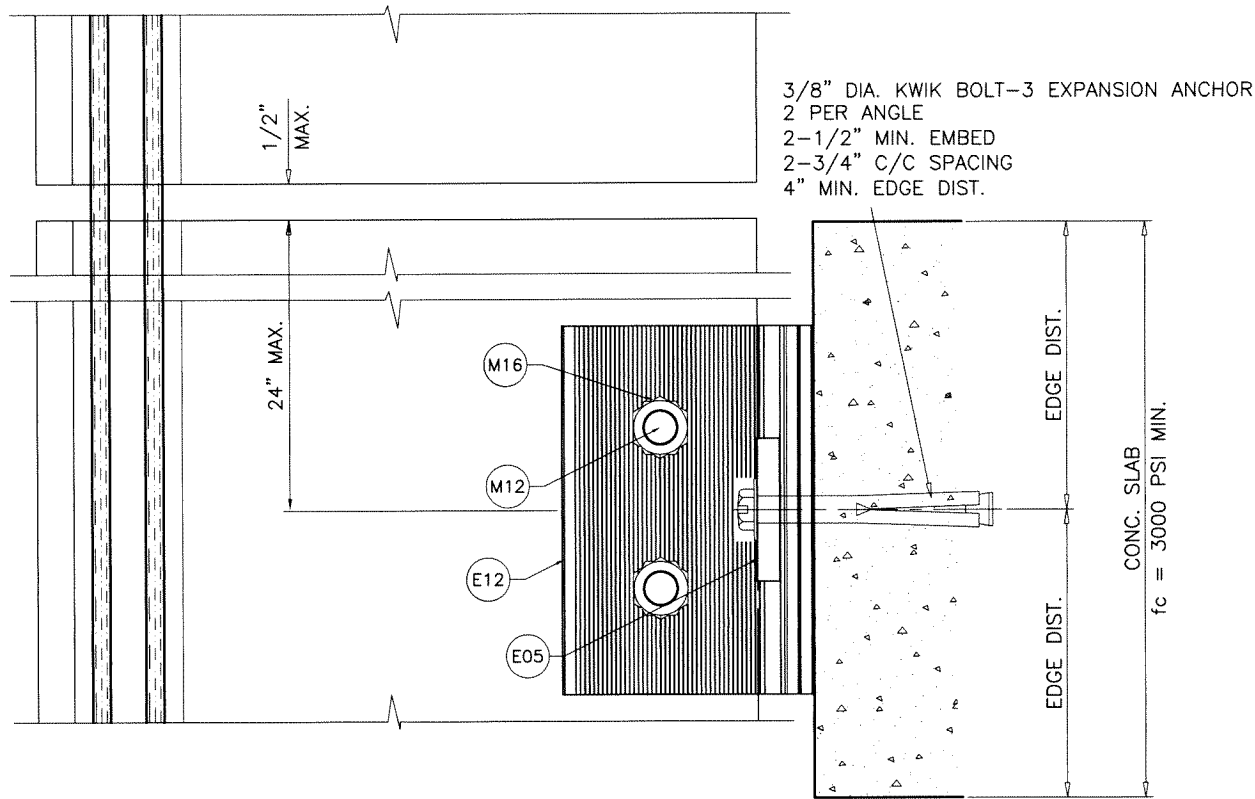
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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 262-8100 FAX. (305) 262-6978
COMP-ANL\W15-106ESW

SERIES NS 25-8 CURTAIN WALL STICK SYS. (N.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
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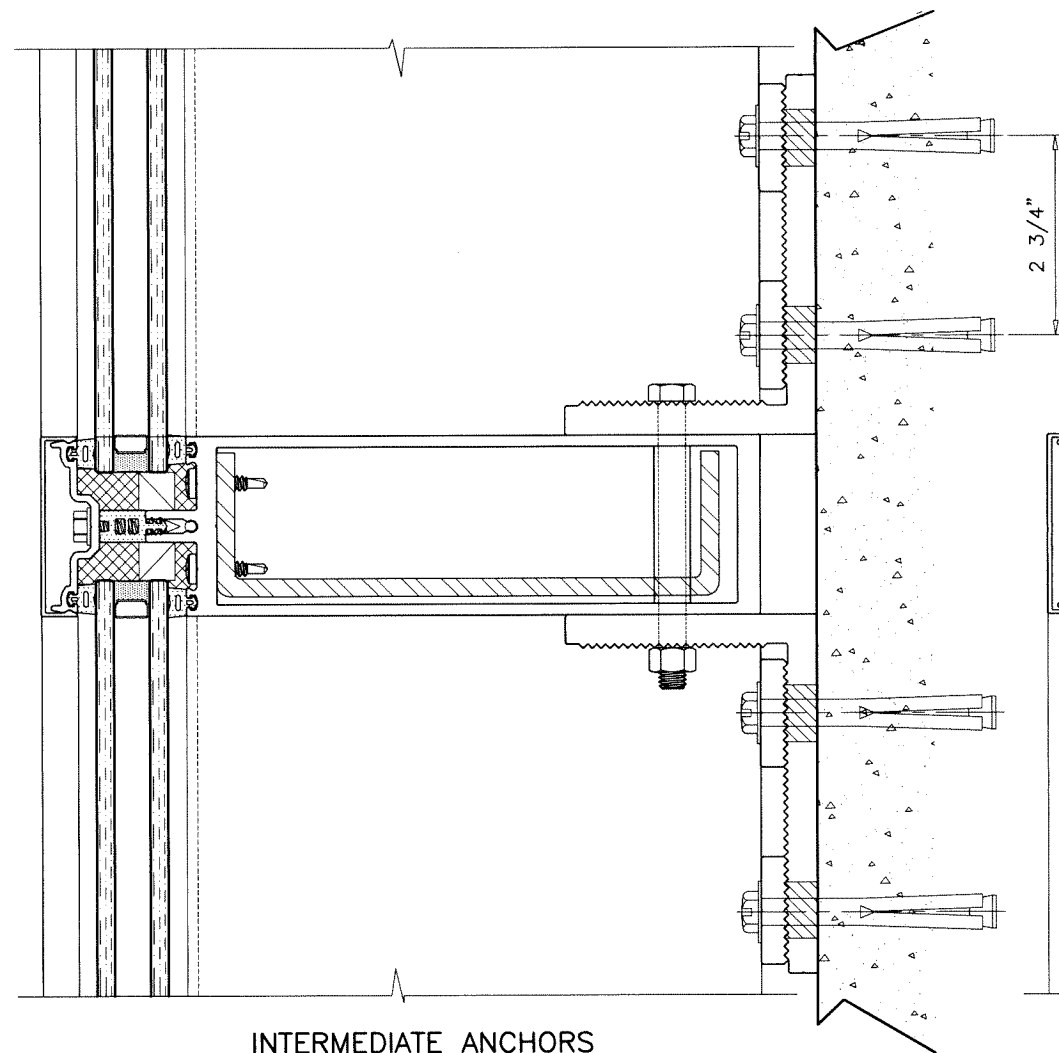
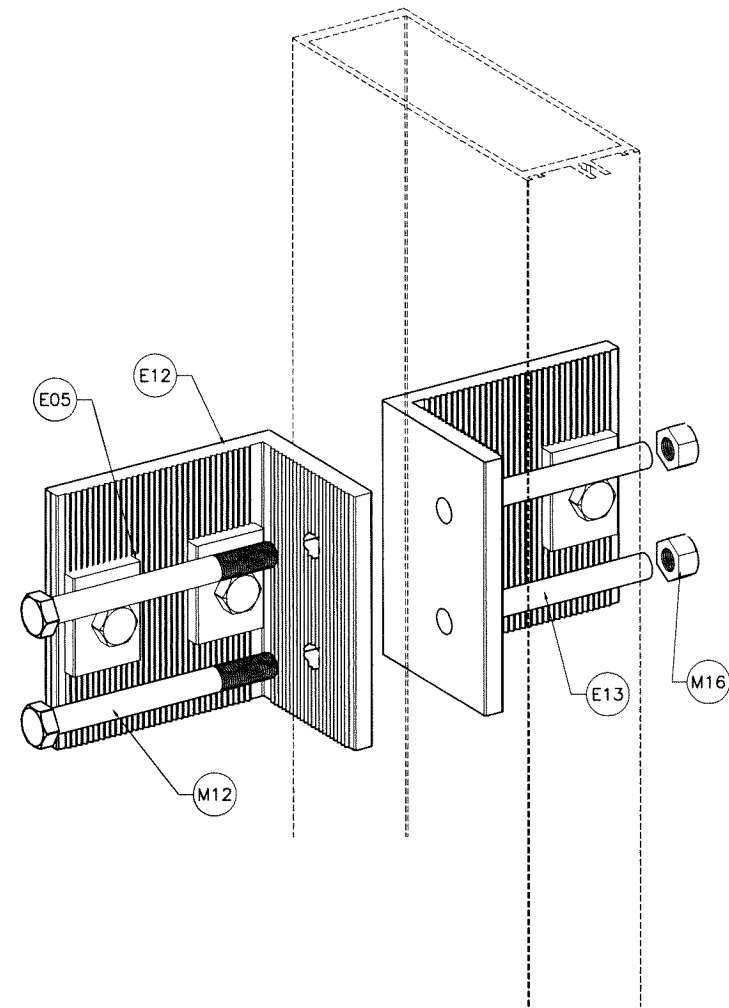
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12-01-15
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dr. by: TARIQ
chk. by:
drawing no.
W15-106
sheet 8 of 12

ANCHORS LOAD CAPACITY - PSF		
NOMINAL DIMS.		ANCHOR TYPE 'A'
WIDTH (W)	FRAME HEIGHT	EXT.(+)/INT.(-)
30"	96"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	120"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		48.5
30"	138"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		46.3
60"		40.2
30"	144"	52.5
36"		52.5
42"		52.5
48"		51.1
54"		43.8
60"		38.0
30"	168"	52.5
36"		52.5
42"		49.7
48"		41.7
54"		35.5
60"		30.5
30"	192"	52.5
36"		51.1
42"		41.7
48"		34.7
54"		29.2
60"		24.8
30"	216"	52.5
36"		43.8
42"		35.5
48"		29.2
54"		24.3
30"	240"	48.5
36"		38.0
42"		30.5
48"		24.8
30"	269-1/4"	41.6
36"		32.2
42"		25.6

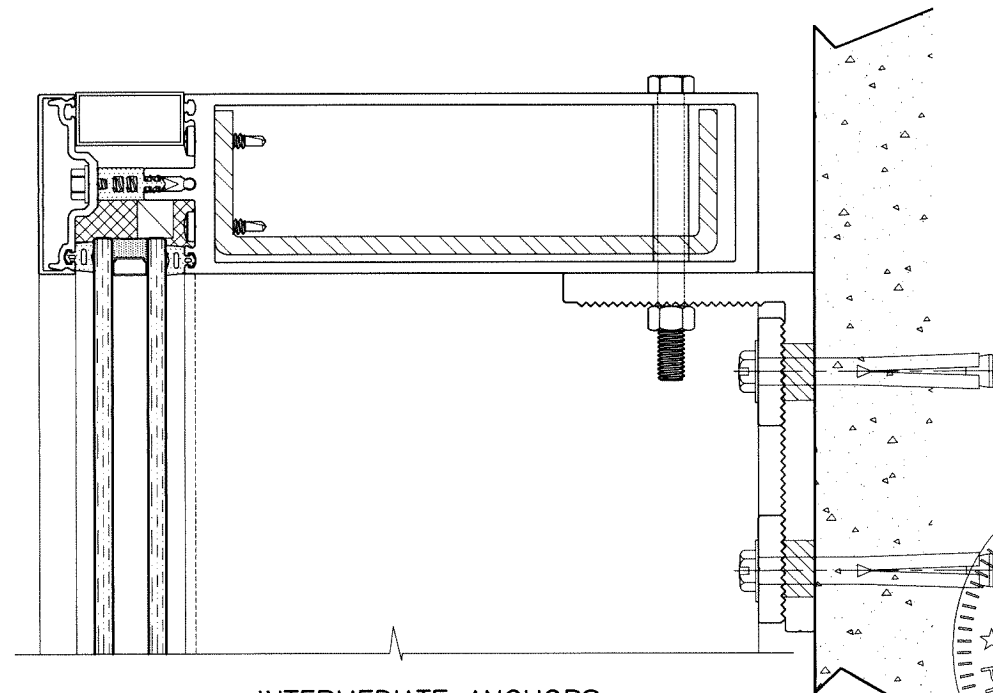
INTERPOLATION BETWEEN WIDTHS AND HEIGHTS ALLOWED.



DEAD LOAD ANCHOR



INTERMEDIATE ANCHORS
AT MULLION

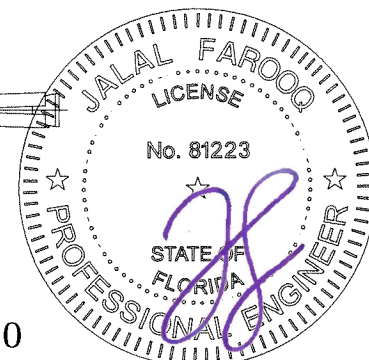


INTERMEDIATE ANCHORS
AT JAMB

ANCHORS INTO CONCRETE

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FL #21890



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revisions:	no	date	by	description

date: 12-01-15

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dr. by: TARIQ

chk. by:

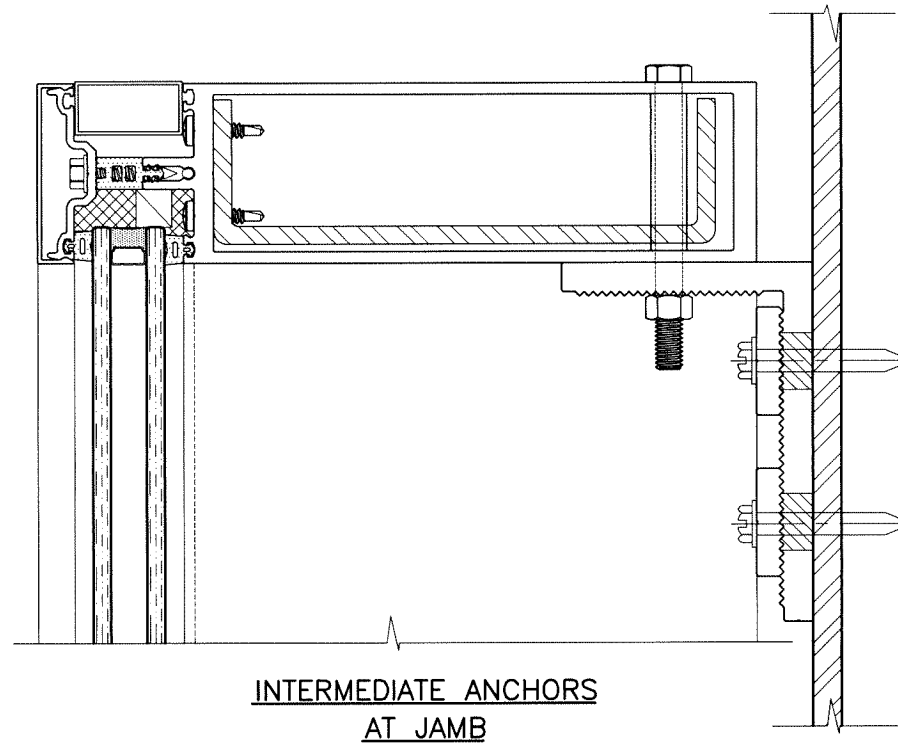
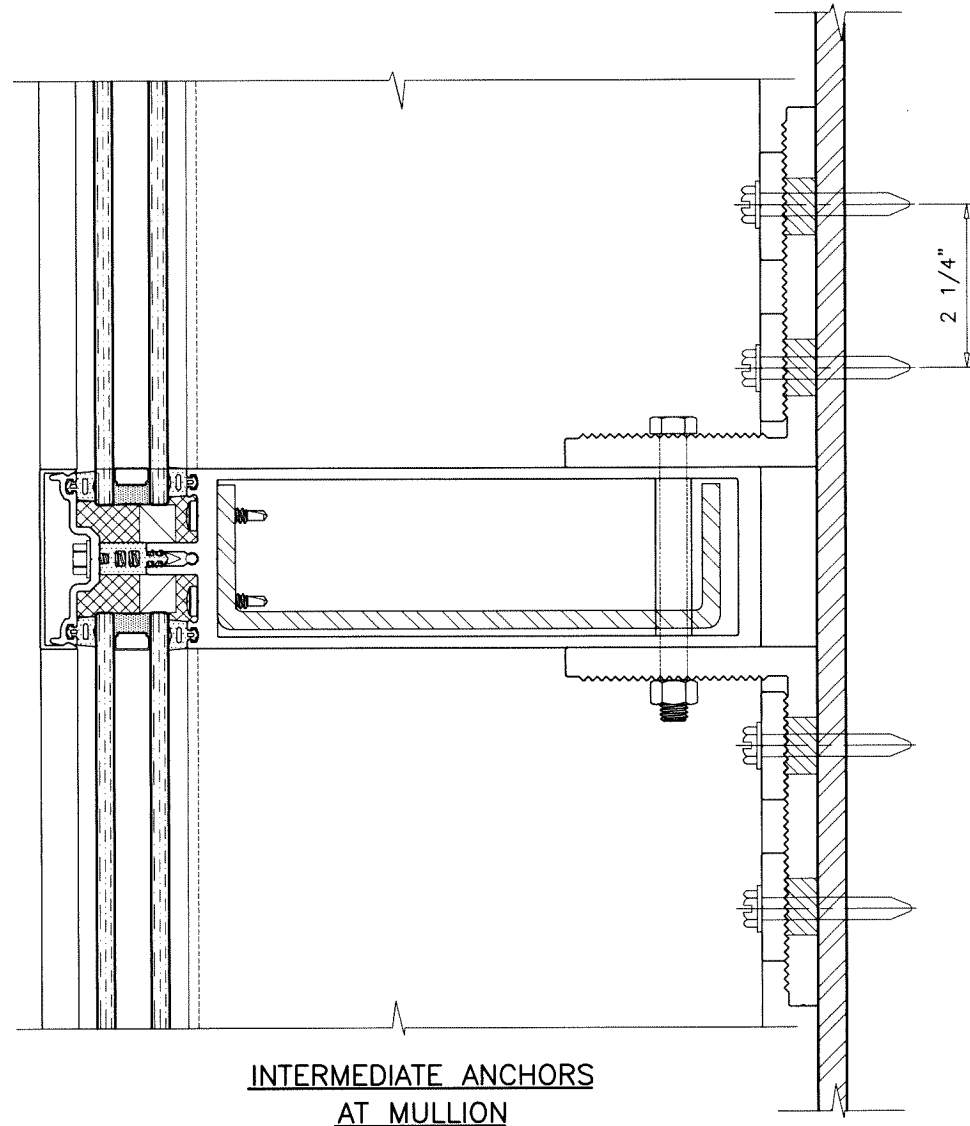
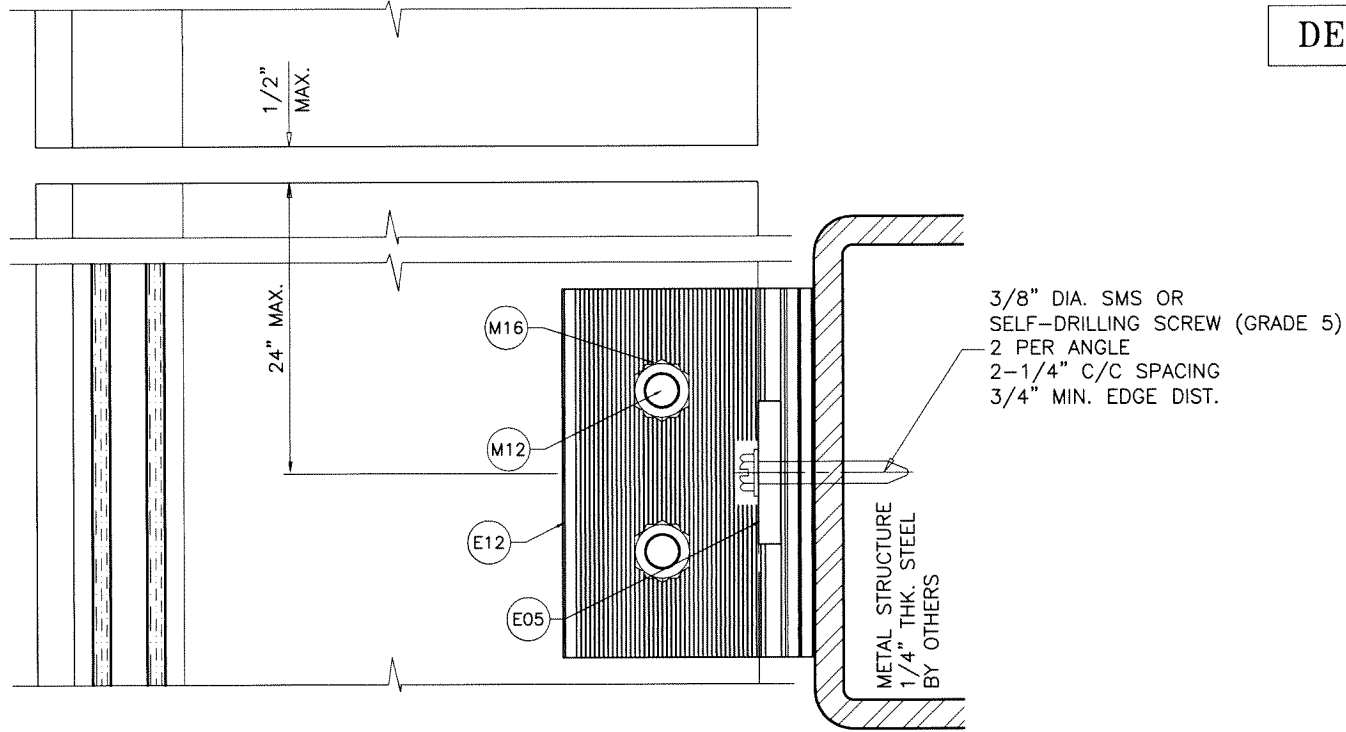
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W15-106

sheet 9 of 12

ANCHORS LOAD CAPACITY - PSF		
NOMINAL DIMS.		ANCHOR TYPE 'B'
WIDTH (W)	FRAME HEIGHT	EXT.(+)/INT.(-)
30"	96"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	120"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	138"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	144"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	168"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	192"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		52.5
30"	216"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		52.5
60"		51.5
30"	240"	52.5
36"		52.5
42"		52.5
48"		52.5
54"		51.5
60"		44.9
30"	269-1/4"	52.5
36"		52.5
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54"		44.3
60"		38.5

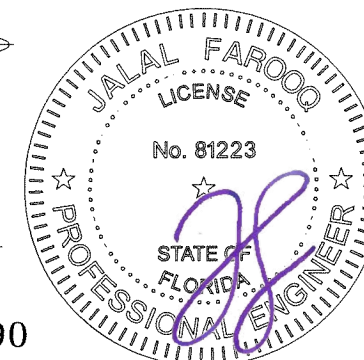
INTERPOLATION BETWEEN WIDTHS AND HEIGHTS ALLOWED.

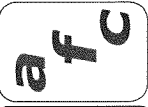


ANCHORS INTO METAL STRUCTURES
COMMERCIAL STEEL - 1/4" MIN. THICKNESS

Sealed: 10/11/2023

FL #21890





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

SERIES NS 25-8 CURTAIN WALL STICK SYS. (N.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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revisions:	
no	by description

date: 12-01-15

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

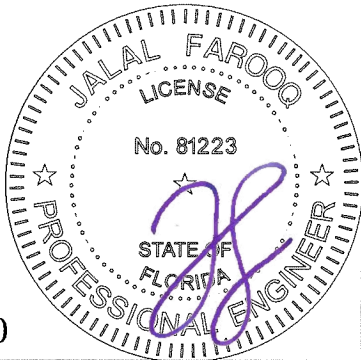
drawing no. **W15-106**

sheet 10 of 12

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E01	NS-25-004	AS REQD.	MULLION	6063-T6	-
E02	NS-25-406	AS REQD.	PRESSURE PLATE	6063-T6	-
E03	NS-25-407	AS REQD.	COVER	6063-T5	-
E04	ES-T-097	AS REQD.	POCKET FILLER	6063-T6	-
E05	ES-U3525-216	AS REQD.	SLAB ANCHOR WASHER	6005-T5	-
E06	NS-25-104	AS REQD.	SSG MULLION	6063-T6	-
E07	NS-25-206	AS REQD.	SHEAR BLOCK	6005-T5	-
E08	NS-25PV-014	AS REQD.	SETTING CHAIR, 4" LONG	6063-T6	-
E09	NS-25-053	AS REQD.	SETTING CHAIR, 4" LONG	6063-T5	-
E10	NS-25-204	AS REQD.	MULLION ANCHOR CLIP	6005-T5	-
E11	NS-25-205	AS REQD.	JAMB ANCHOR CLIP	6005-T5	-
E12	ES-U3525-215	AS REQD.	SLAB ANCHOR	6005-T5	-
E13	ALU-TC-008	AS REQD.	SPACER TUBE, 3-1/2" LONG	6063-T6	-
M01	NS-25-G01	AS REQD.	INSIDE/OUTSIDE GASKET	EPDM	DUROMETER 70±5 SHORE A
M02	NS-25-G04	AS REQD.	ISOLATOR	EPDM	DUROMETER 70±5 SHORE A
M03	80-379	2/ LITE	SETTING BLOCK AT 2" FROM ENDS (.39" X .98" X 4" LONG)	EPDM	DUROMETER 80±5 SHORE A
M04	ES-6025-G05	AS REQD.	SSG GASKET	EPDM	DUROMETER 70±5 SHORE A
M05	80-303	2/ LITE	SETTING BLOCK AT 2" FROM ENDS (.47" X .47" X 4" LONG)	EPDM	DUROMETER 80±5 SHORE A
M06	80-341	2/ LITE	SETTING BLOCK AT 2" FROM ENDS (.31" X .75")	EPDM	DUROMETER 80±5 SHORE A
M07	210830	2/ LITE	SETTING BLOCK AT 2" FROM ENDS (1.06" X .17" X 4" LONG)	EPDM	DUROMETER 80±5 SHORE A
M08	#12 X 1"	2/ BLOCK	SHEAR BLOCK FASTENERS	ST. STEEL	FH SELF DRILLING SCREWS
M09	#12 X 1-1/4"	2/ BLOCK	SHEAR BLOCK FASTENERS	ST. STEEL	PH SELF DRILLING SCREWS
M10	#14 X 1-1/2"	AS REQD.	PRESSURE PLATE FASTENERS	ST. STEEL	HWH SMS
M11	1/4-20 X 1-1/2"	4/ BLOCK	SHEAR BLOCK FASTENERS	ST. STEEL	HH TYPE 'F' POINT
M12	3/8-16 X 4"	AS REQD.	INTERMEDIATE ANCHOR BOLT	ST. STEEL	HEX HEAD
M13	#12 X 1"	AS REQD.	SPLICE AND REINFORCEMENT FASTENER	ST. STEEL	PH SELF DRILLING SCREW
M14	-	AS REQD.	3/8" WASHER	ST. STEEL	-
M15	#8 X 1/2"	AS REQD.	END CAP FASTENERS	ST. STEEL	PH SMS
M16	3/8-16	AS REQD.	NUT	ST. STEEL	HEX HEAD
M17	NS-25-C02	AS REQD.	END CAP	ALUMINUM	-
M18	-	AS REQD.	REINFORCEMENT CHANNEL	STEEL	-
M19	NS-25-B01C	AS REQD.	JOINT PLUG AT SSG VERTICAL & HORIZONTAL	EPDM	DUROMETER 60±5 SHORE A
M20	NS-25-F03	AS REQD.	END FOAM AT CAPTURED VERTICAL & HORIZONTAL INTERSECTION	FOAM	CLOSED CELL
M21	-	AS REQD.	5/8" BACKER ROD AT SSG VERTICAL	POLYETHYLENE	-
M22	-	AS RQD.	3/8" BACKER ROD AT POCKET FILLER	POLYETHYLENE	-

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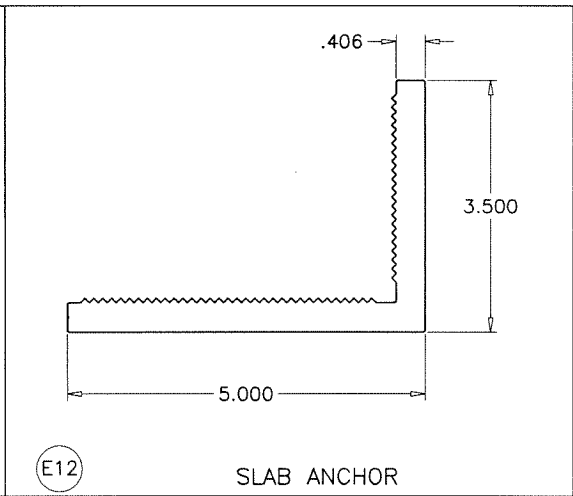
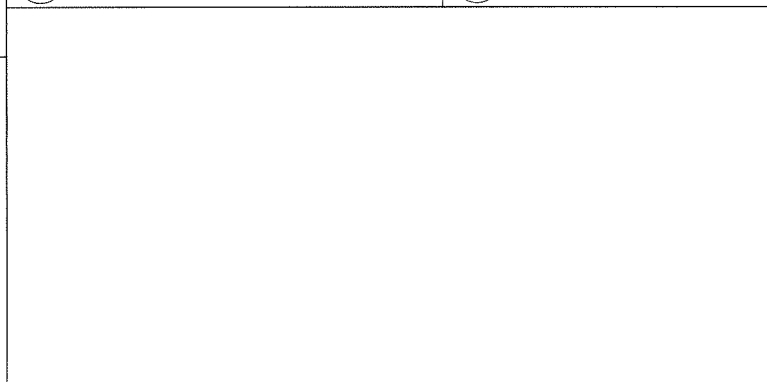
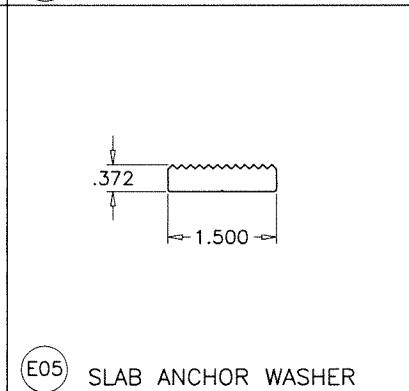
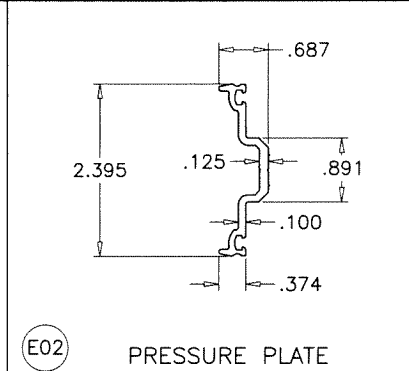
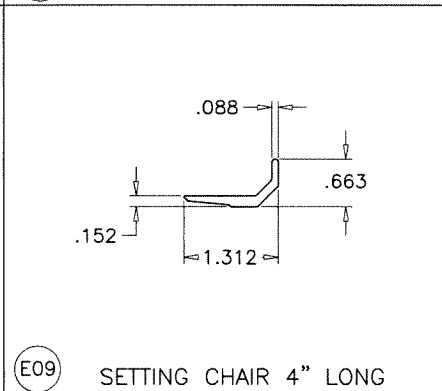
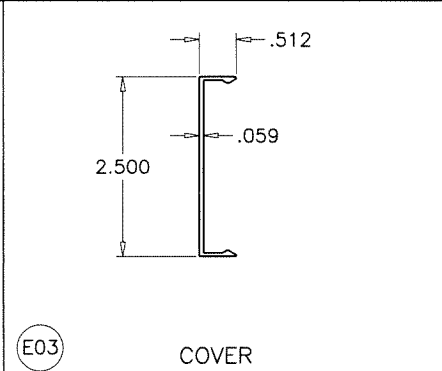
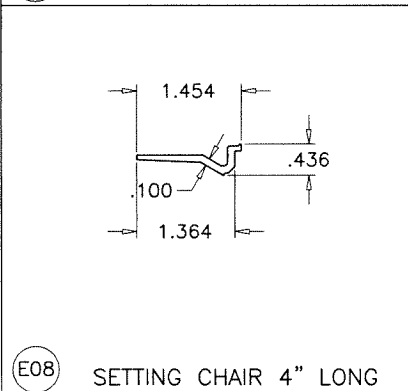
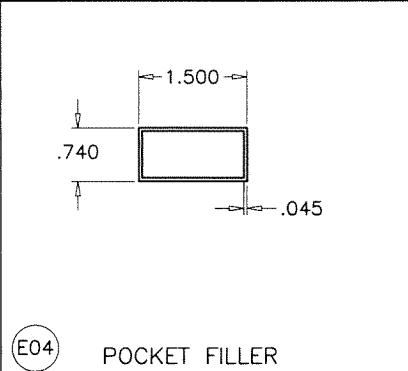
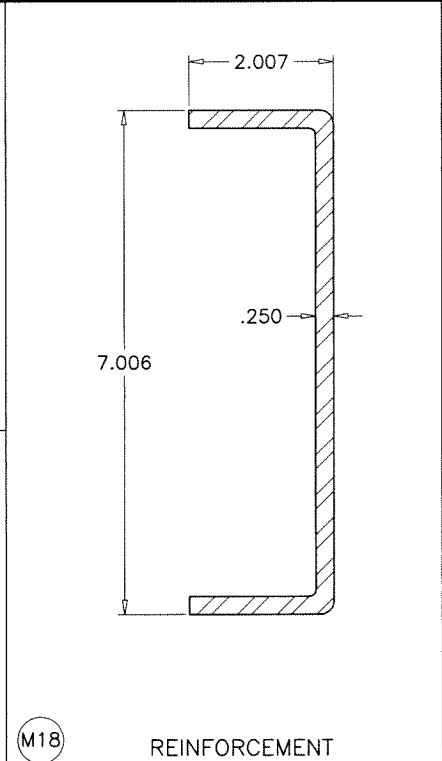
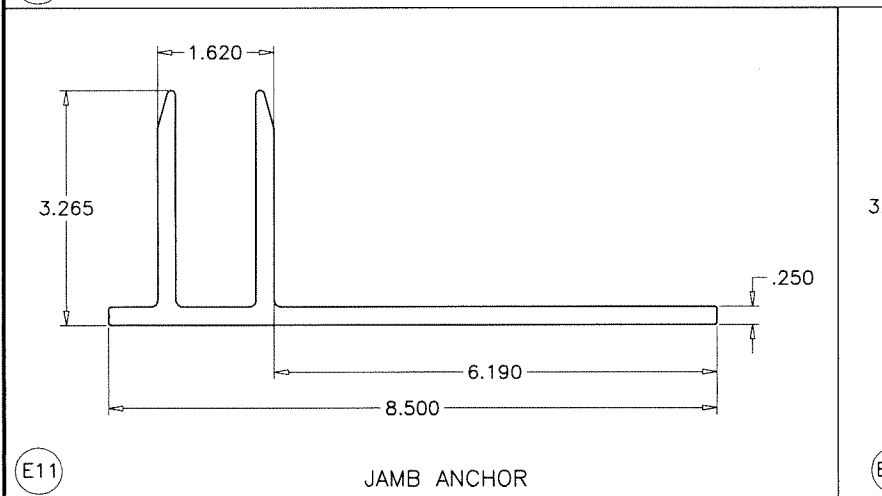
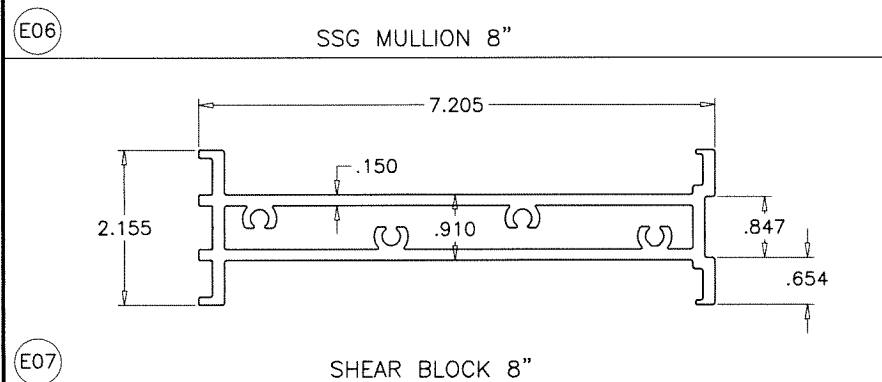
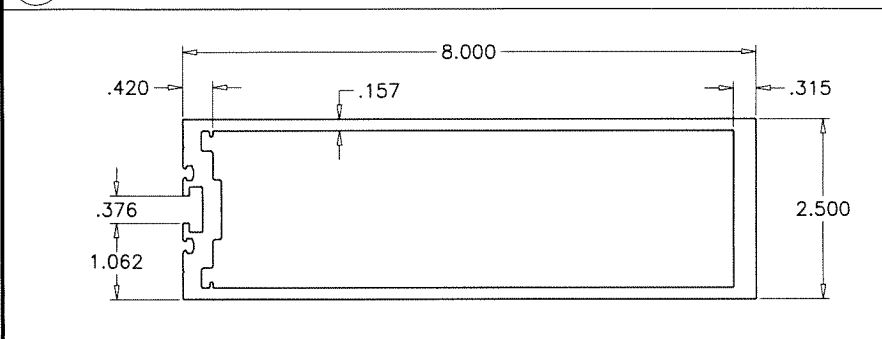
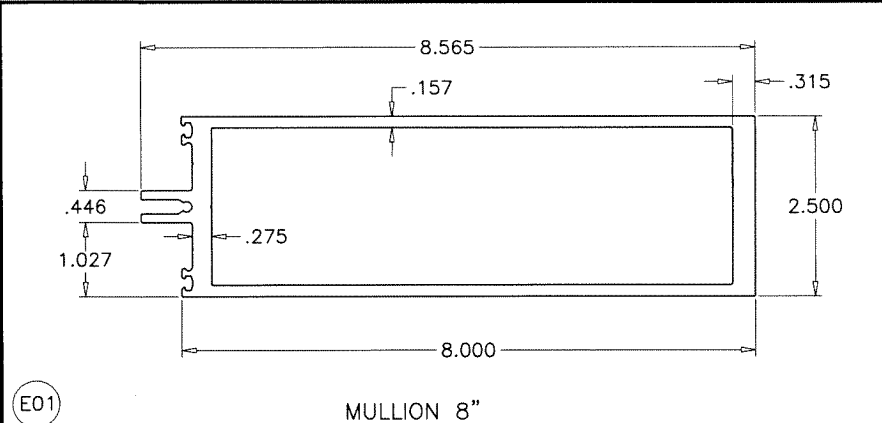
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sheet 11 of 12

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COMP-ANL\W15-106ESW



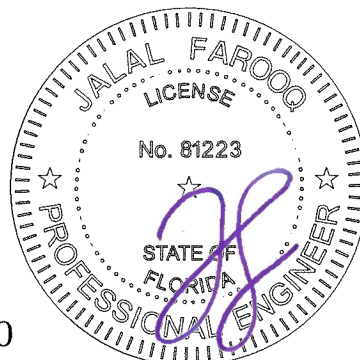
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