

*** PRODUCTS DEPICTED ARE THE PROPERTY OF SCHUCO USA L.L.L.P
USE OF THIS PRODUCT REQUIRES WRITTEN AUTHORIZATION BY SCHUCO USA L.L.L.P.
TO THE BUILDING DEPARTMENT WHEN APPLYING FOR A PERMIT. ***

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

AWS 65
AWS 70
AWS 75
ALUMINUM OUTSWING CASEMENT AND FIXED WINDOW (L.M.I.)

APPROVAL APPLIES TO SINGLE UNITS OF SERIES AWS65, AWS70, AWS 75
IN CASEMENT AND FIXED WINDOWS CONFIGURATIONS.

ALSO SIDE BY SIDE COMBINATIONS OF CASMT./CASMT. OR
CASMT./FIXED IN MODULES OF TWO OR MORE WINDOWS
USING INTEGRAL MULLIONS IN BETWEEN.

ALSO SIDE BY SIDE COMBINATIONS OF CASEMENT OR FIXED WINDOWS
WITH OTHER WINDOW TYPES IN MODULES OF TWO OR
MORE WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN.

LOWER DESIGN PRESSURE FROM WINDOWS CAPACITY CHART,
OR SEPARATE MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH 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.

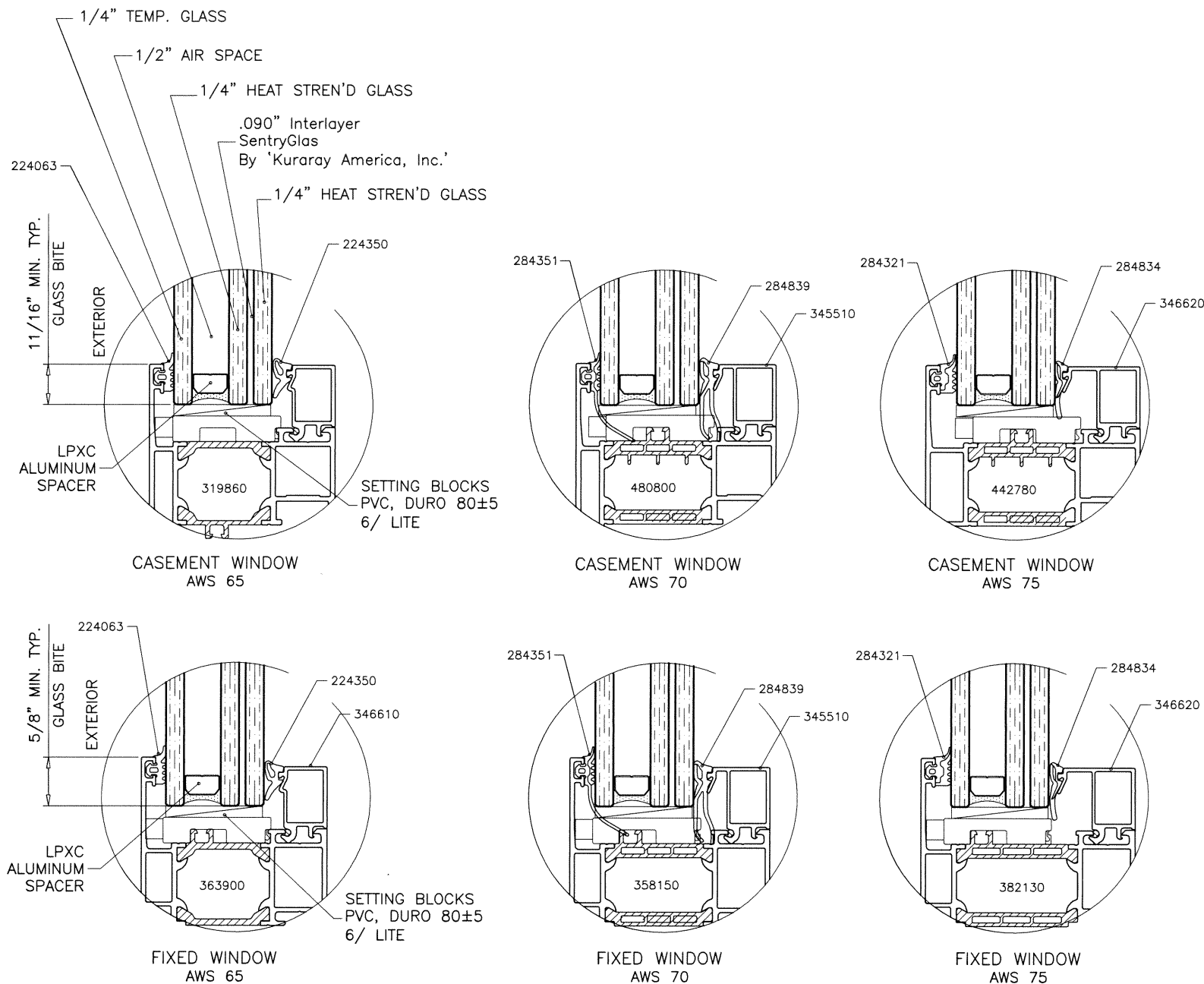
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2017/2020 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)'.

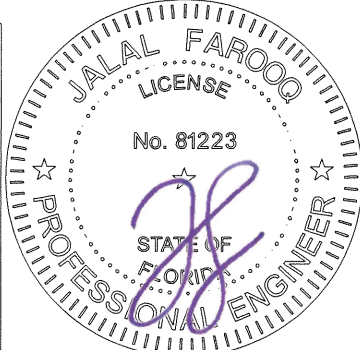
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION
IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.
LABELING TO COMPLY WITH SECTION 1709.9.2.



GLAZING DETAILS
1-3/8" OVERALL INSUL. LAM. GLASS

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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.



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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\19-45F-SUL

AWS 65 ALUM OUTSWING CASEMENT WDW. (L.M.I.)

Schuco USA L.L.L.P.
240 Pane Road
Newington, CT. 06111
Phone: (860) 666-0505 Fax: (860) 616-0188

revisions:	no	date	by	description
	A	09.13.19		GENERAL REVISION
	B	09.08.20		UPDATED TO 2020 FBC

date: 05-24-19

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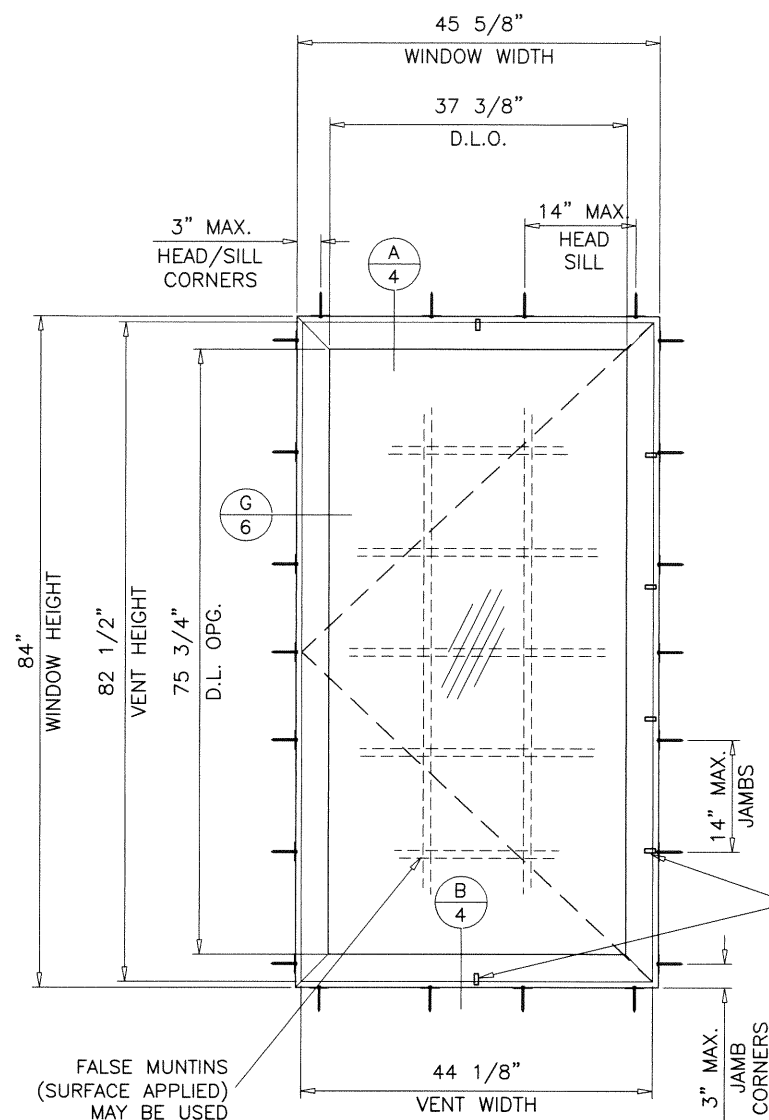
dr. by: TARIQ

chk. by:

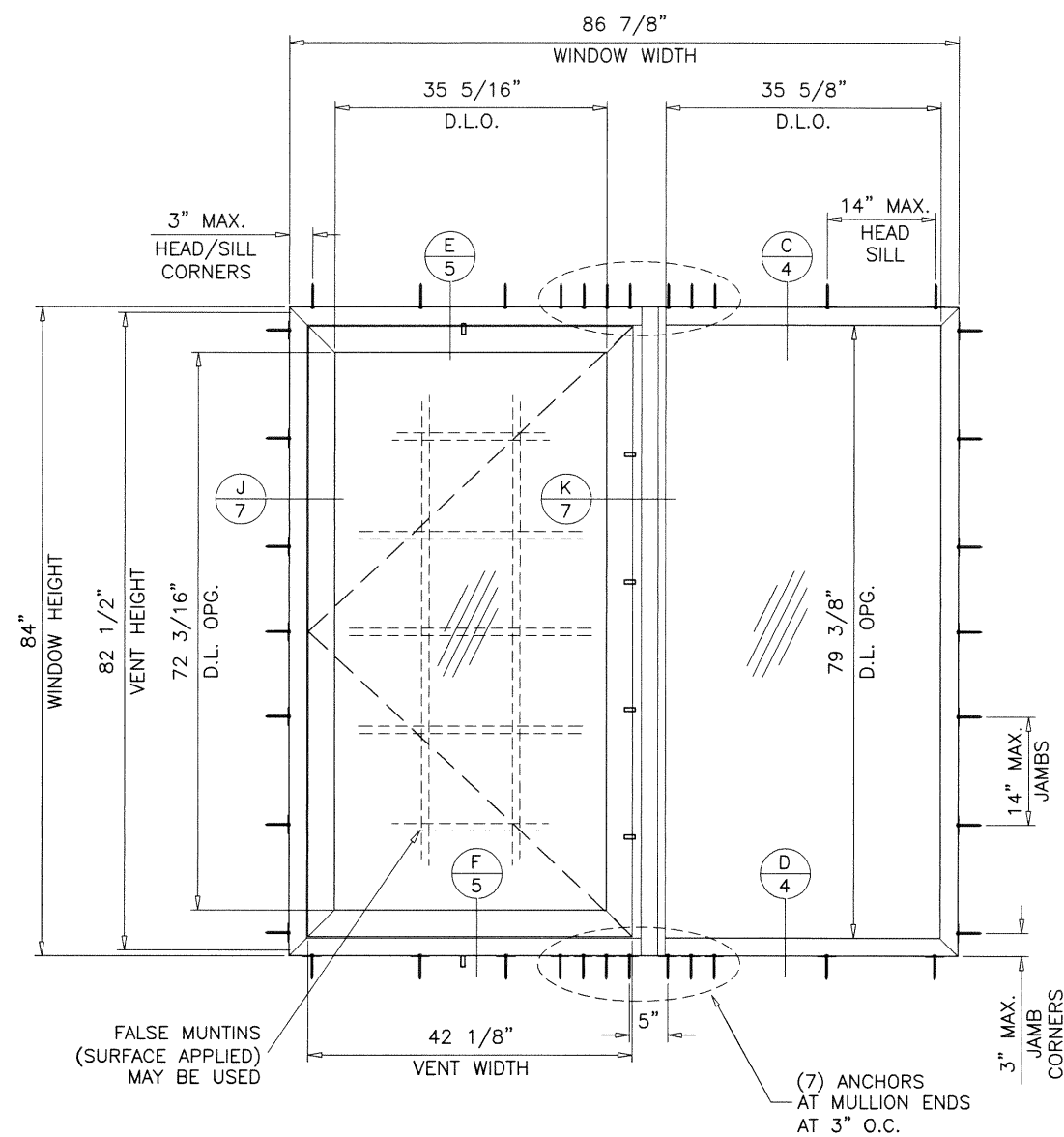
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19-45F

sheet 1 of 10



CASEMENT (X)



CASMT-FIX (X-O)

TYPICAL ELEVATIONS

MAXIMUM DESIGN LOAD RATING = + 70.0 PSF
- 70.0 PSF

FOR CASEMENT WINDOW SIZE SHOWN ABOVE OR SMALLER
AND MAX. MULLION HEIGHT SHOWN ABOVE.
FOR FIXED WINDOW CAPACITY SEE SHEET 3.
LOWER DESIGN LOAD FROM CASEMENT WINDOW CAPACITY
OR FIXED WINDOW CAPACITY CHART WILL APPLY.

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

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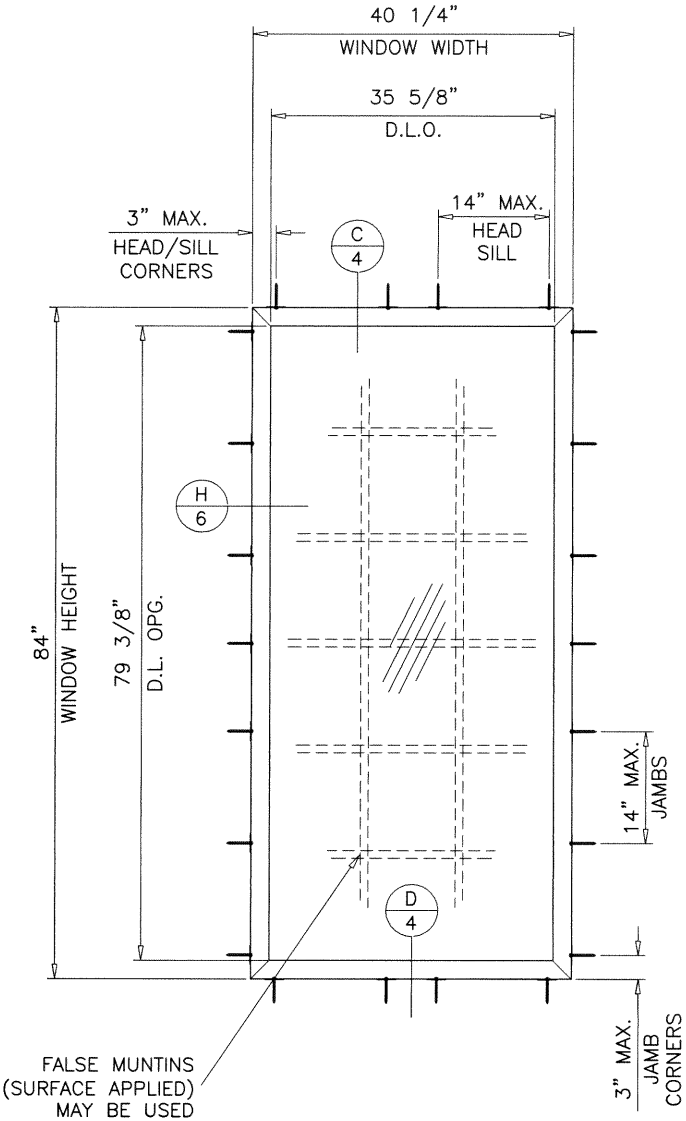
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chk. by:

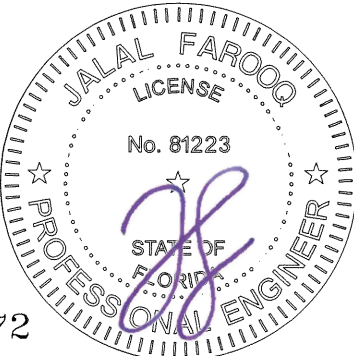
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19-45F
sheet 2 of 10

FIXED WDWS. DESIGN LOAD CAPACITY - PSF			
FRAME DIMS.		1-3/16" OVERALL INSUL. LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
36"	36"	70.0	70.0
42"		70.0	70.0
48"		70.0	70.0
54"		70.0	70.0
60"		70.0	70.0
66"		70.0	70.0
72"		70.0	70.0
78"		70.0	70.0
84"		70.0	70.0
90"		70.0	70.0
36"	42"	70.0	70.0
42"		67.1	67.1
48"		67.1	67.1
54"		67.1	67.1
60"		67.1	67.1
66"		67.1	67.1
72"		67.1	67.1
78"		67.1	67.1
36"	48"	70.0	70.0
42"		67.1	67.1
48"		58.7	58.7
54"		58.7	58.7
60"		58.7	58.7
66"		58.7	58.7
36"	54"	70.0	70.0
42"		67.1	67.1
48"		58.7	58.7
54"		52.2	52.2
60"		52.2	52.2
36"	60"	70.0	70.0
42"		67.1	67.1
48"		58.7	58.7
54"		52.2	52.2
36"	66"	70.0	70.0
42"		67.1	67.1
48"		58.7	58.7
36"	72"	70.0	70.0
42"		67.1	67.1
36"	78"	70.0	70.0
42"		67.1	67.1
36"	84"	70.0	70.0
36"	90"	70.0	70.0



FIXED (O)
TYPICAL ELEVATION

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Schuco USA L.L.P.

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revisions:

no	date	by	description

date: 05-24-19

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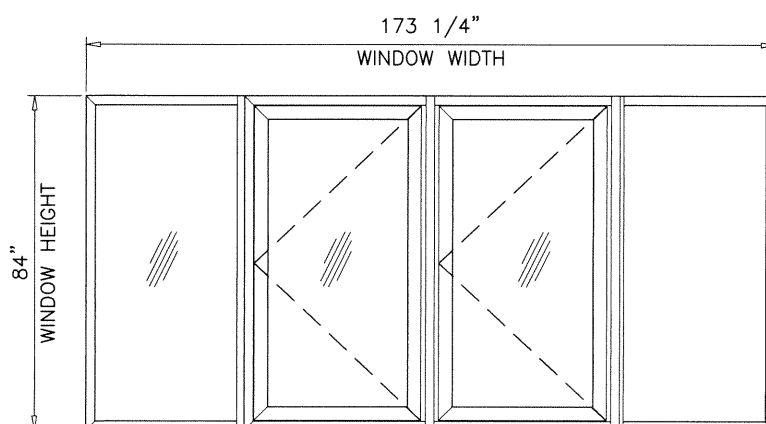
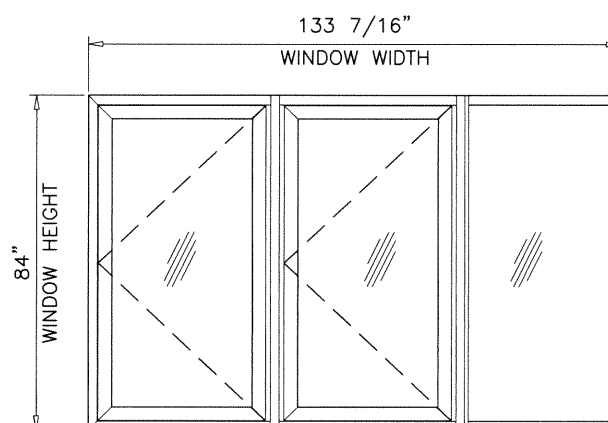
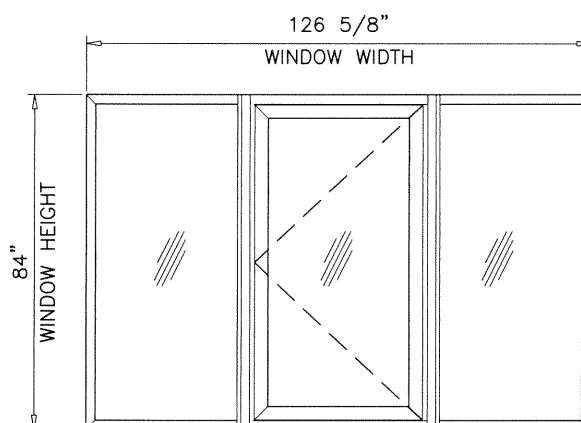
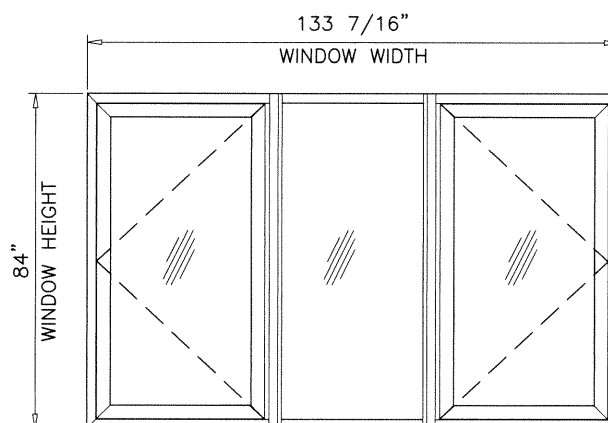
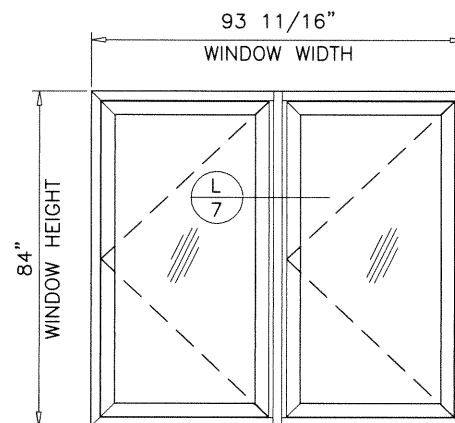
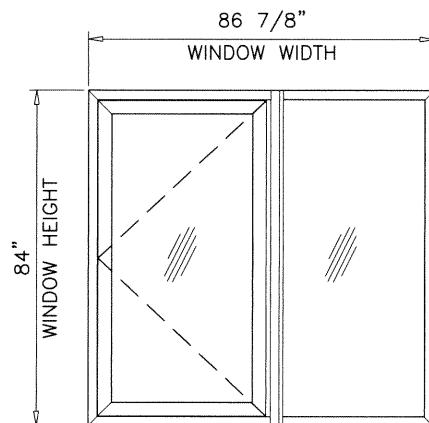
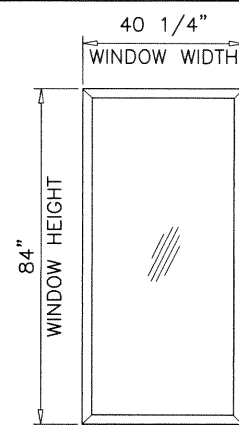
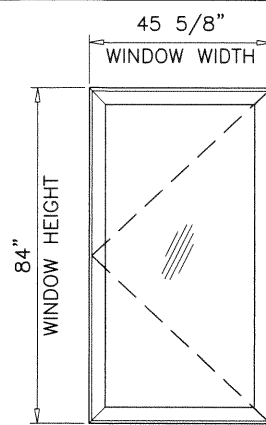
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chk. by:

drawing no.

19-45F

sheet 3 of 10

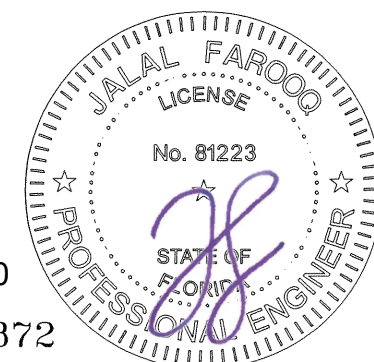


NOTE:
TYPICAL CONFIGURATIONS SHOWN.
CASEMENT WINDOWS CAN BE HINGED LEFT OR RIGHT.

APPROVED CONFIGURATIONS

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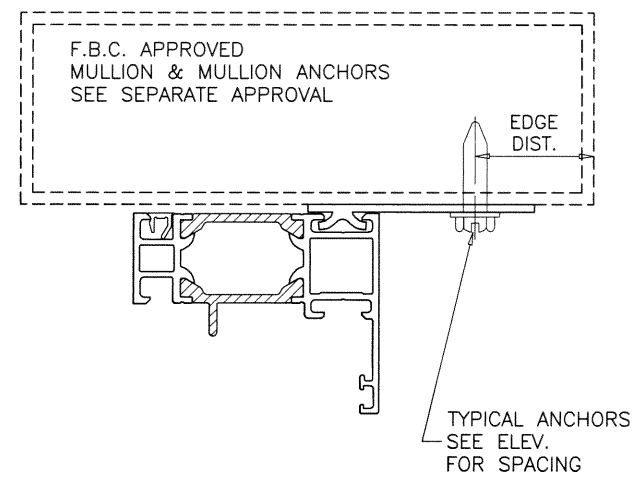
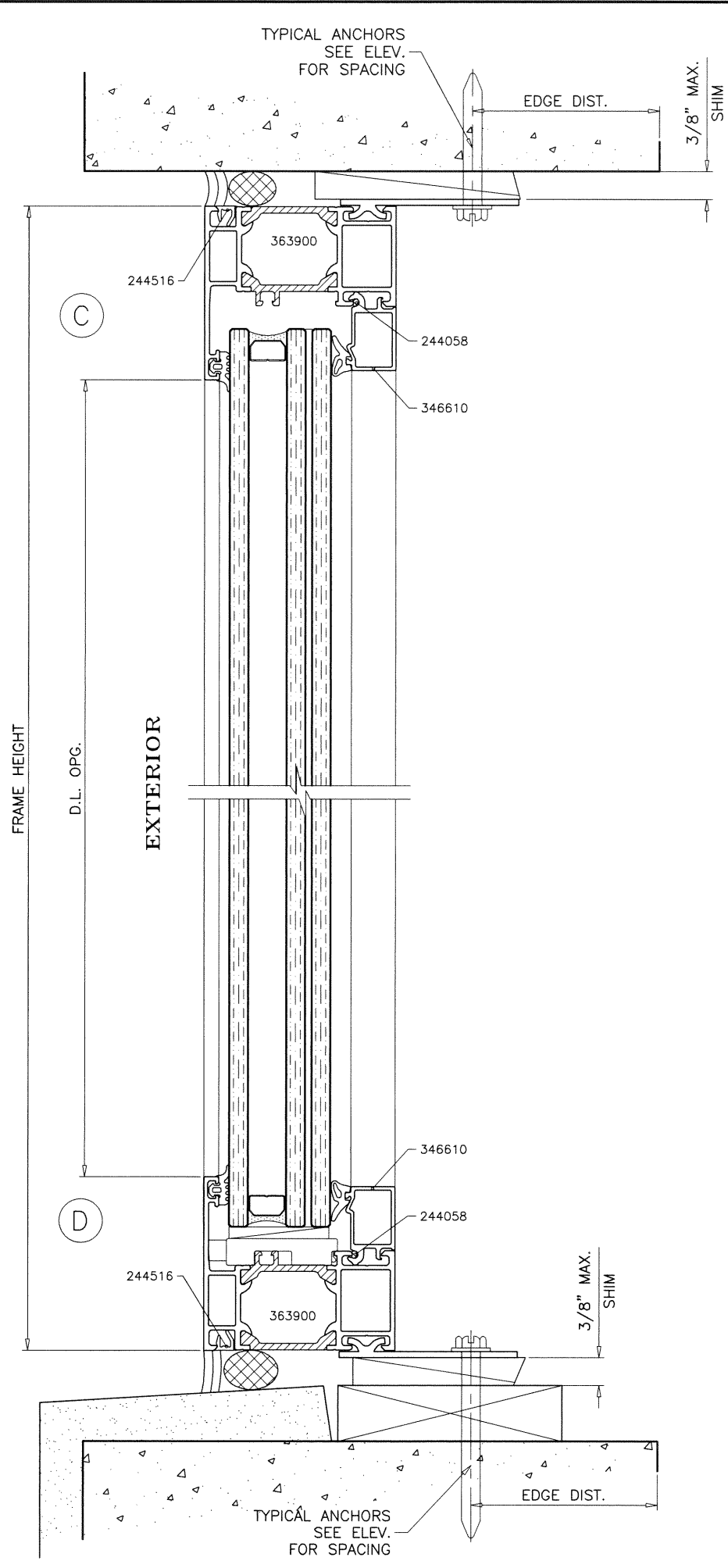
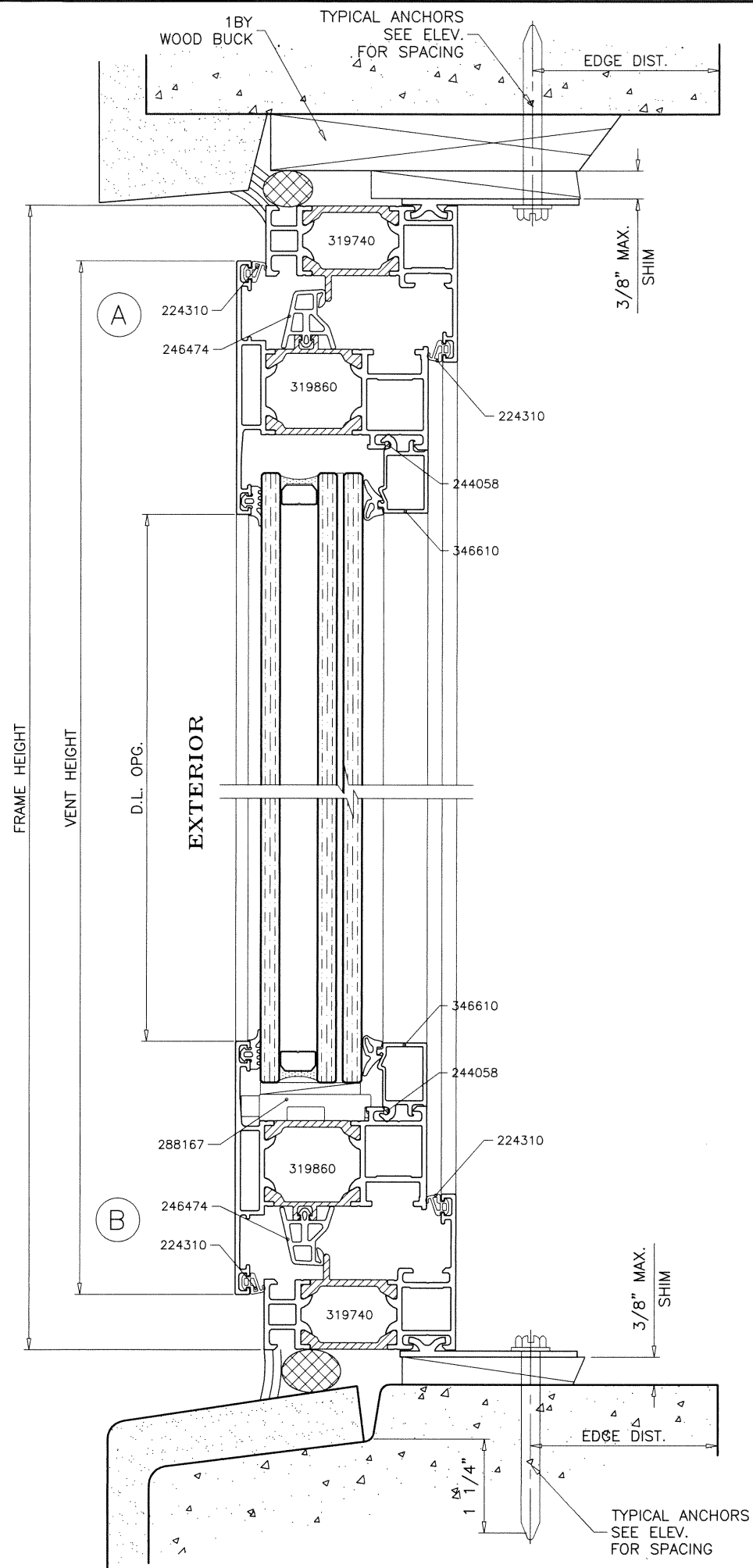


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(C.A.N. 3538)

AWS 65 ALUM OUTSWING CASEMENT WDW. (L.M.I.)

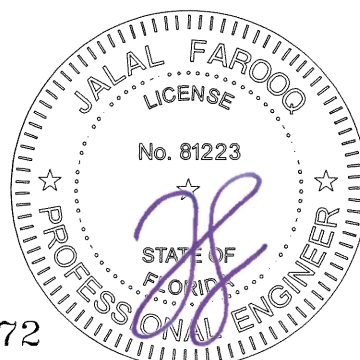
Schuco USA L.L.P.
240 Pane Road
Newington, CT. 06111
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AWS65 SHOWN
AWS70 & AWS75 SIMILAR



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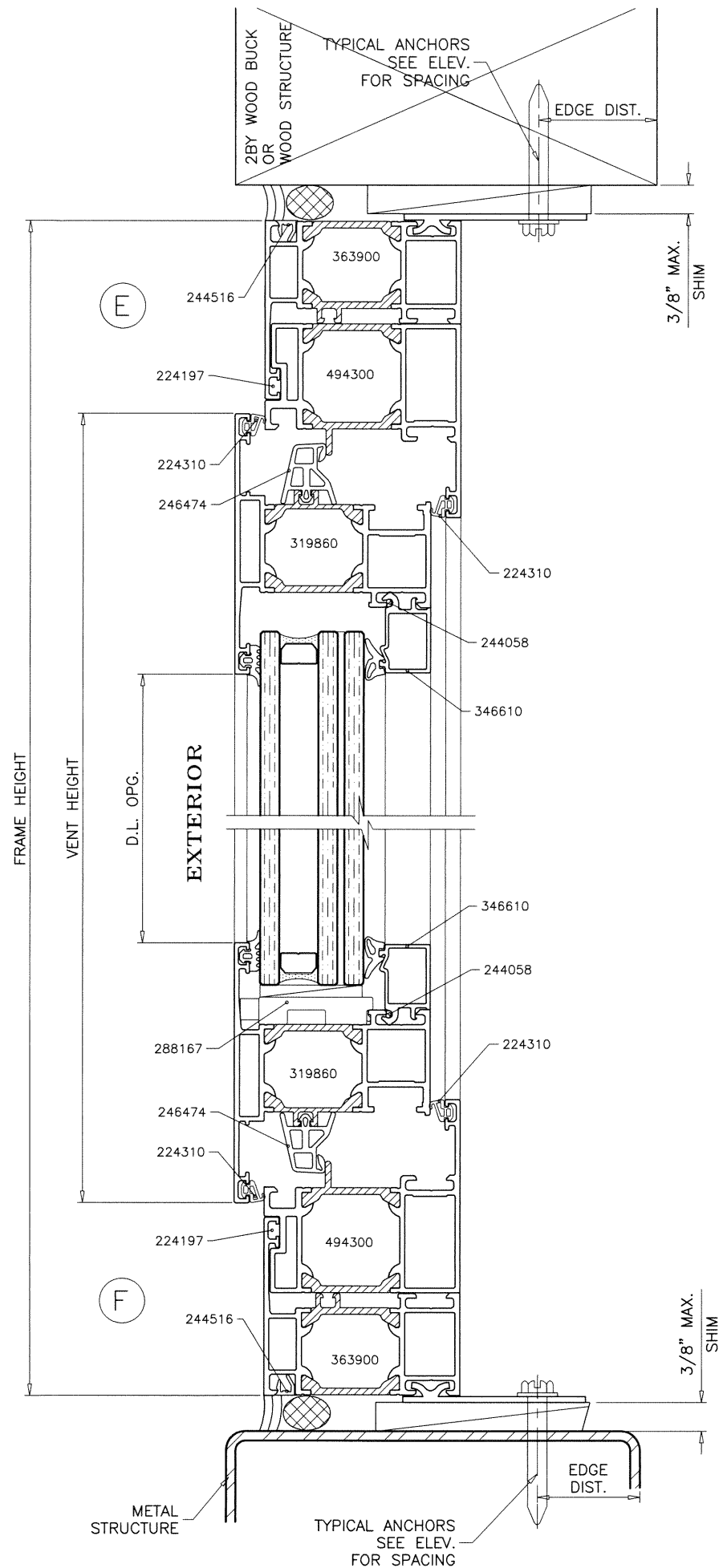
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drawing no.
19-45F

sheet 4 of 10



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/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

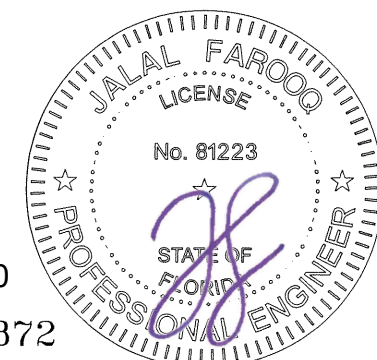
1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 AND
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

AWS65 SHOWN
 AWS70 & AWS75 SIMILAR



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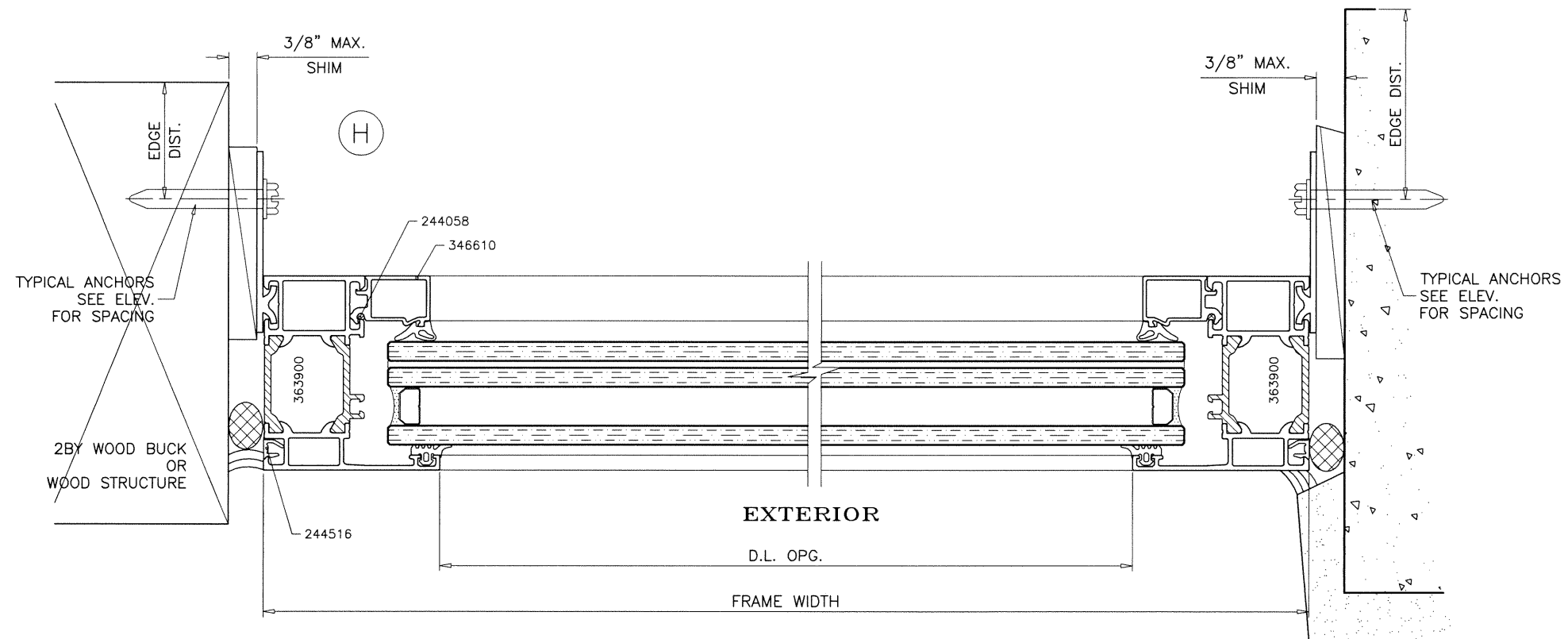
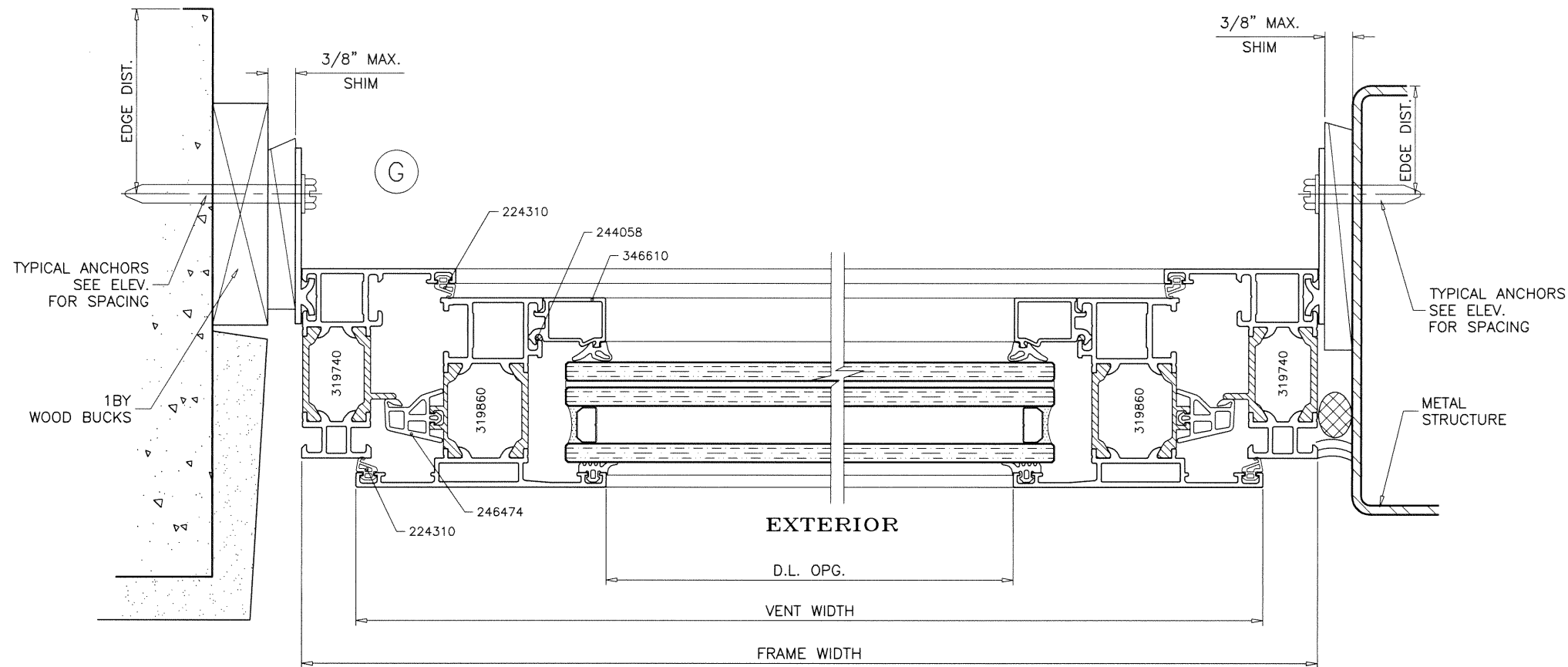
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\19-45F-SUL

AWES 65 ALUM OUTSWING CASEMENT WDW. (L.M.I.)

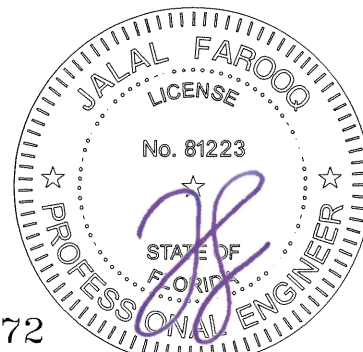
Schuco USA L.L.P.
 240 Pane Road
 Newington, CT. 06111
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drawing no. **19-45F**
 sheet **5** of **10**



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AWS65 SHOWN
AWS70 & AWS75 SIMILAR

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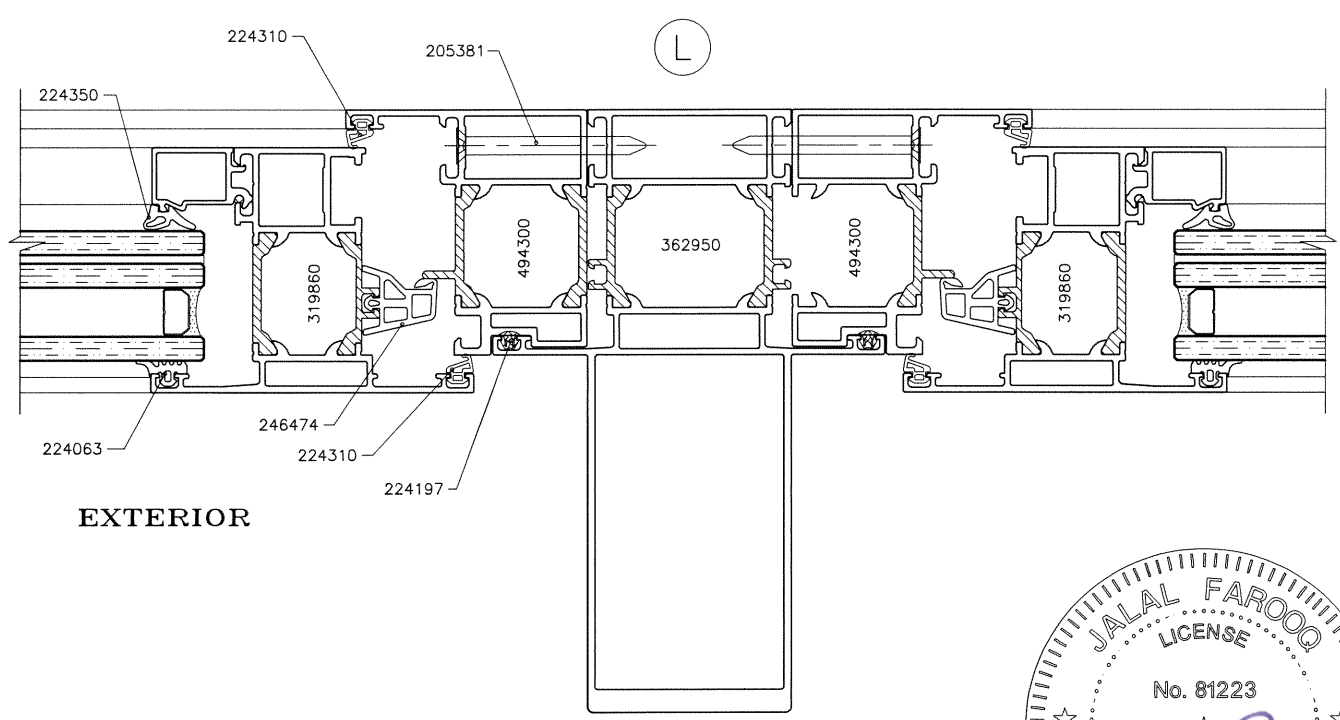
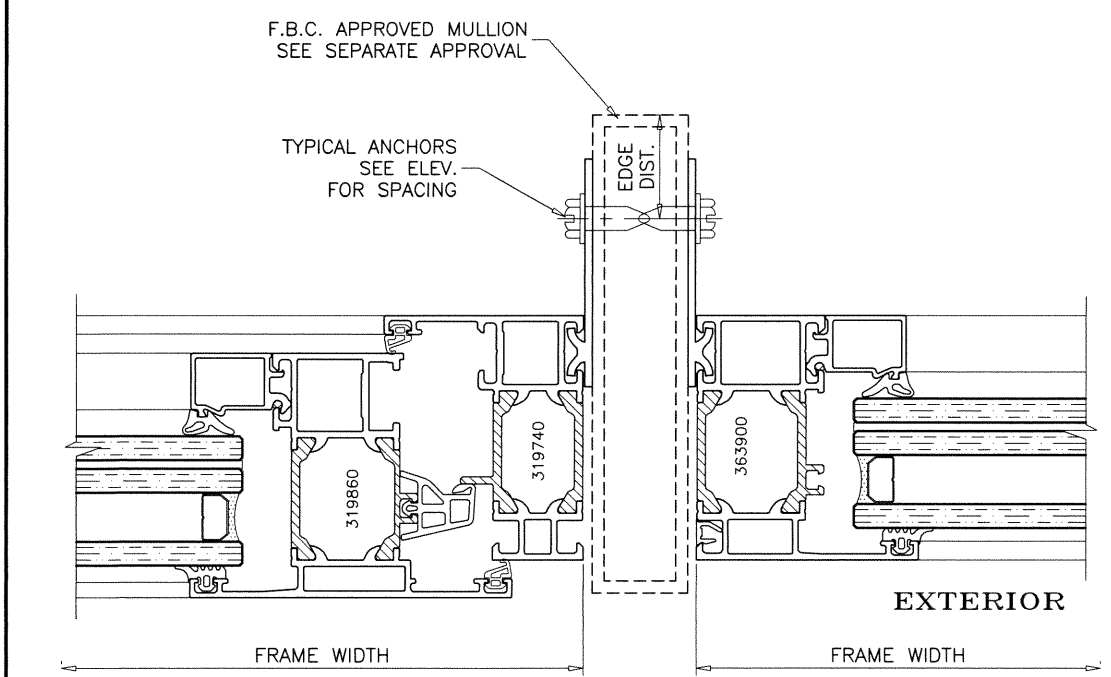
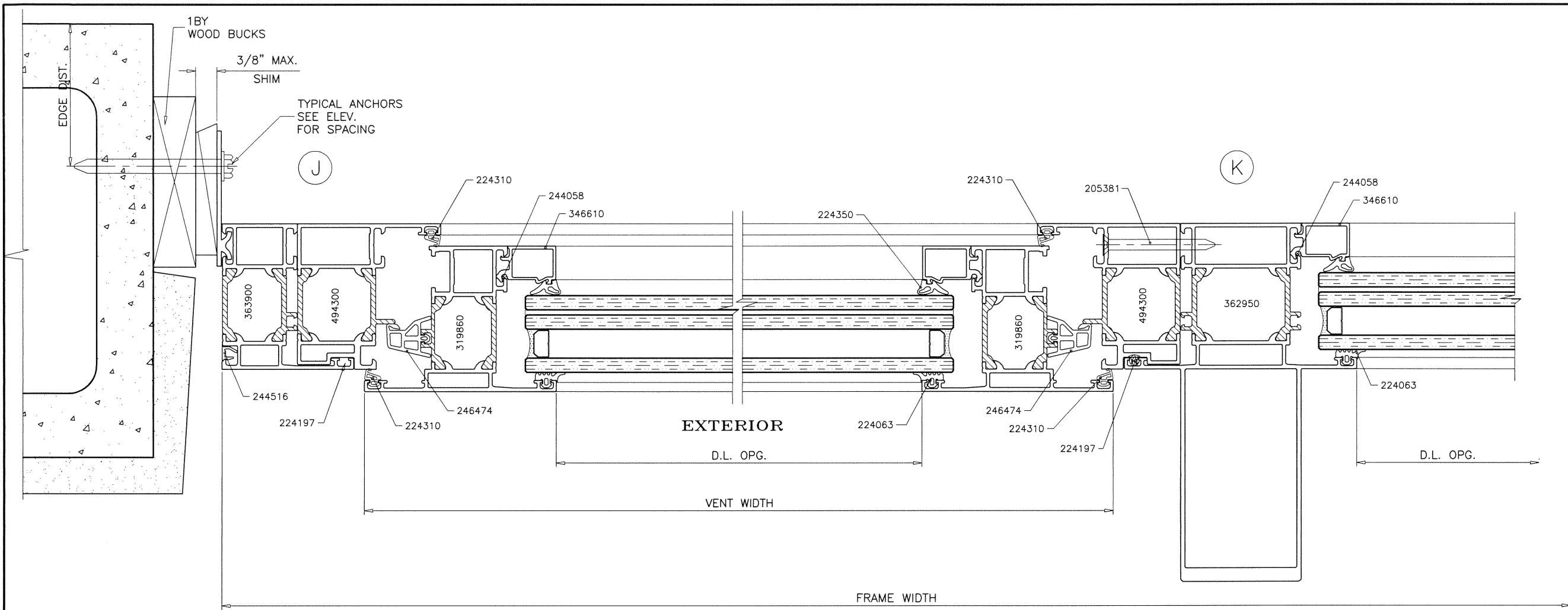
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AWS65 SHOWN
AWS70 & AWS75 SIMILAR

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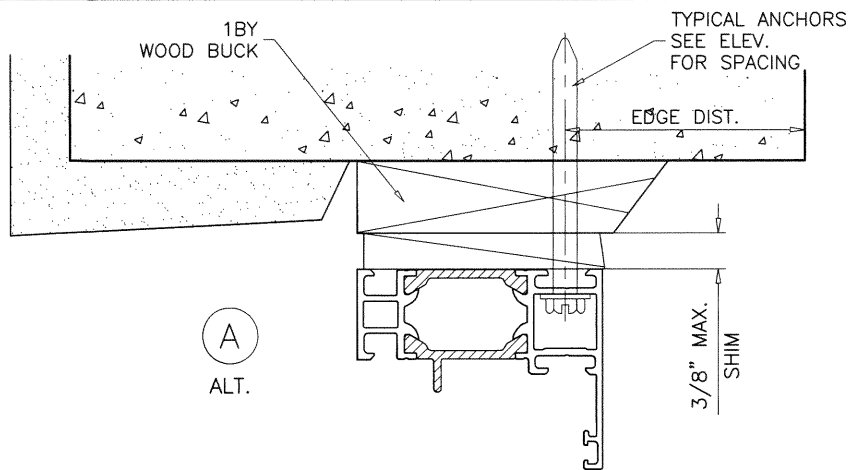
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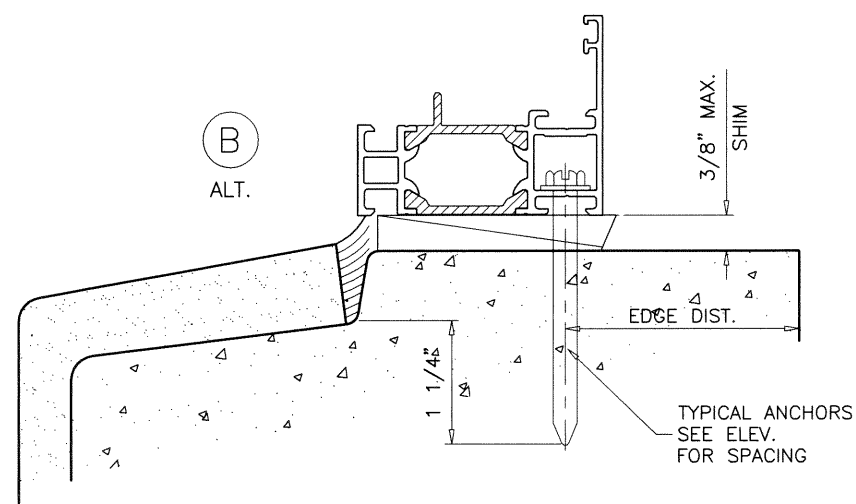
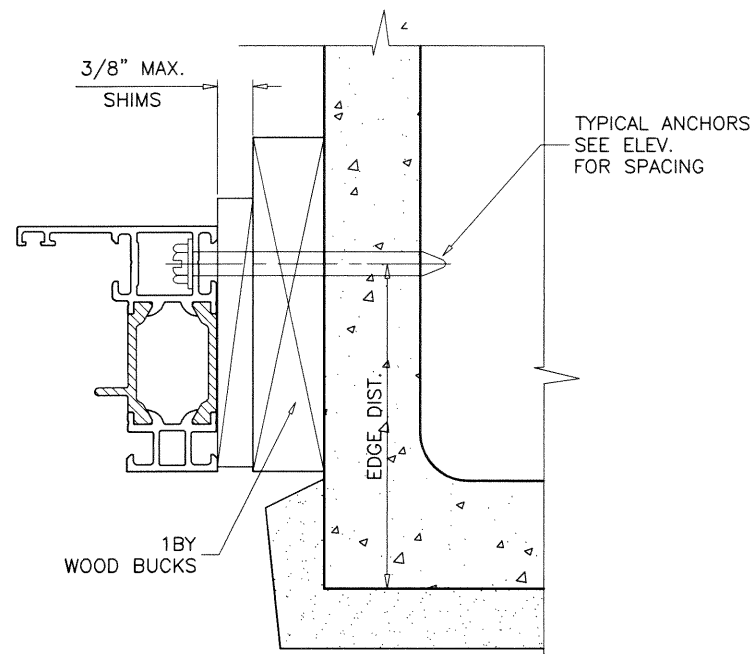
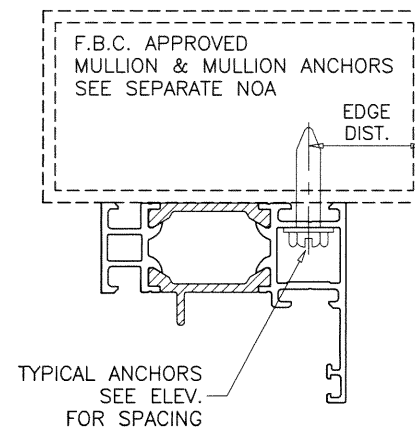
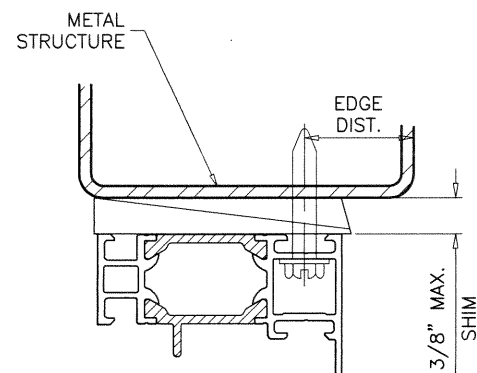
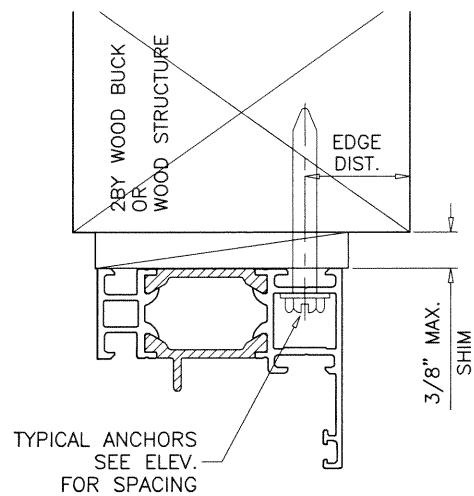
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sheet 7 of 10



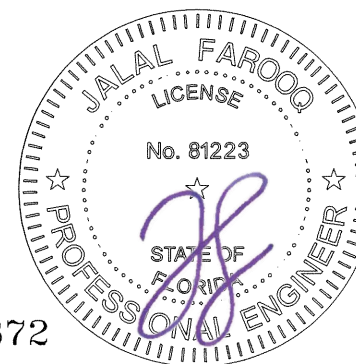
A
ALT.



B
ALT.

INSTALLATION DETAILS WITHOUT STRAP CLIPS
SEE SHEETS 4 THRU 7 FOR WINDOW DETAILS

AWS65 SHOWN
AWS70 & AWS75 SIMILAR



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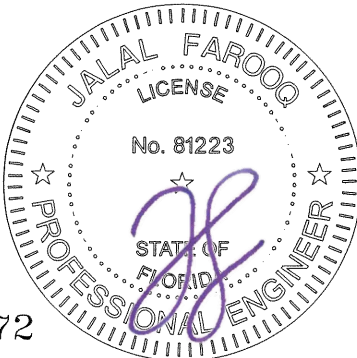
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dr. by: TARIQ
chk. by:

drawing no.
19-45F
sheet 8 of 10

PART #	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
319740	CASEMENT FRAME (AWS 65)	6063-T6	—
197360	CASEMENT FRAME (AWS 70)	6063-T6	—
480830	CASEMENT FRAME (AWS 75)	6063-T6	—
319860	CASEMENT RAIL/STILE (AWS 65)	6063-T6	—
480800	CASEMENT RAIL/STILE (AWS 70)	6063-T6	—
442780	CASEMENT RAIL/STILE (AWS 75)	6063-T6	—
363900	FIXED FRAME (AWS 65)	6063-T6	—
358150	FIXED FRAME (AWS 70)	6063-T6	—
382130	FIXED FRAME (AWS 75)	6063-T6	—
494300	FIXED/CASEMENT ADAPTER (AWS 65)	6063-T6	—
494310	FIXED/CASEMENT ADAPTER (AWS 70)	6063-T6	—
494320	FIXED/CASEMENT ADAPTER (AWS 75)	6063-T6	—
362950	MULLION (AWS 65)	6063-T6	—
367210	MULLION (AWS 70)	6063-T6	—
367300	MULLION (AWS 75)	6063-T6	—
346610	GLAZING BEAD (AWS 65)	6063-T6	—
345510	GLAZING BEAD (AWS 70)	6063-T6	—
346620	GLAZING BEAD (AWS 75)	6063-T6	—
244516	FIX. FRAME COVER	6063-T6	—
—	ANCHOR STRAP	6063-T6	—
224350	INTERIOR GLAZING GASKET (AWS 65)	EPDM	DUROMETER 80±5 SHORE A
284839	INTERIOR GLAZING GASKET (AWS 70)	EPDM	DUROMETER 80±5 SHORE A
244834	INTERIOR GLAZING GASKET (AWS 75)	EPDM	DUROMETER 80±5 SHORE A
224063	EXTERIOR GLAZING GASKET (AWS 65)	EPDM	DUROMETER 80±5 SHORE A
284351	EXTERIOR GLAZING GASKET (AWS 70)	EPDM	DUROMETER 80±5 SHORE A
284321	EXTERIOR GLAZING GASKET (AWS 75)	EPDM	DUROMETER 80±5 SHORE A
224310	FRAME/VENT W'STRIPPING	VINYL	DUROMETER 60±5 SHORE A
244058	GASKET CORD 2.5MM SW	—	—
224197	GASKET CORD 4MM	—	—
288167	SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A
246474	SNUBBER	—	—
205381	FRAME FASTENERS	ST. STEEL	—
—	—	—	—
—	—	—	—

Sealed: 9/30/20

FL #29872



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)

af c

COMP-ANL\19-45F-SUL

AWS 65 ALUM OUTSWING CASEMENT WDW. (L.M.I.)

Schuco USA L.L.P.

240 Pane Road

Newington, CT. 06111

Phone: (860) 666-0505

Fax: (860) 616-0188

revisions:

no

date

by

description

date: 05-24-19

scale: 1/2" = 1"

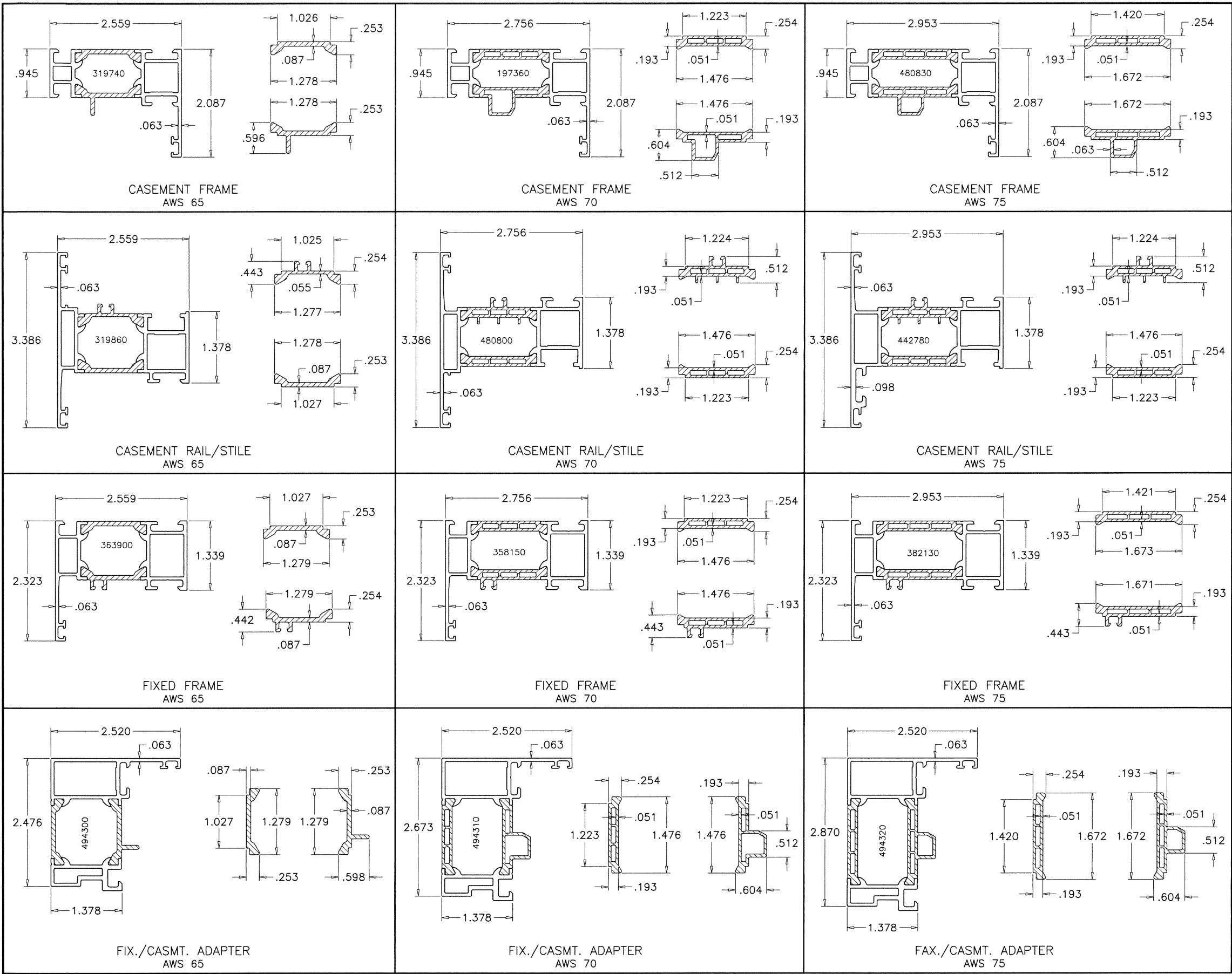
dr. by: TARIQ

chk. by:

drawing no.

19-45F

sheet 8.1 of 10



INSULBARS
 MATERIAL = POLYAMIDE
 TENSILE STRENGTH = 13031 PSI
 RATE OF BURN = .752 IN./MIN.
 SELF IGNITION TEMP. = 793° F
 FLASH IGNITION TEMP. = 781°C
 SMOKE DENSITY = 1.63

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)

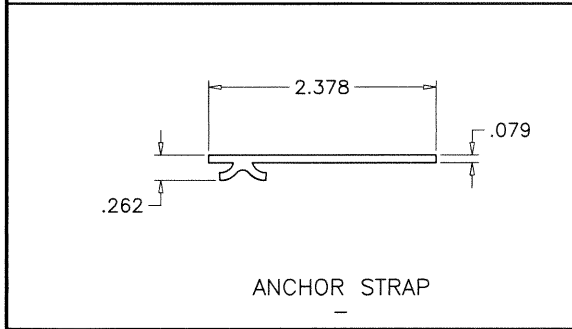
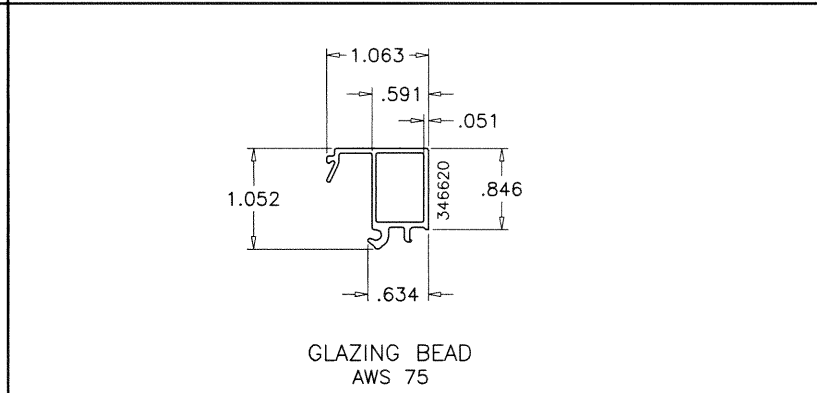
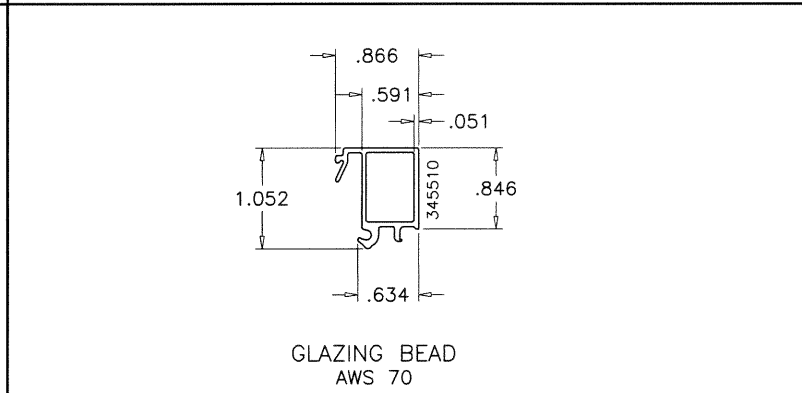
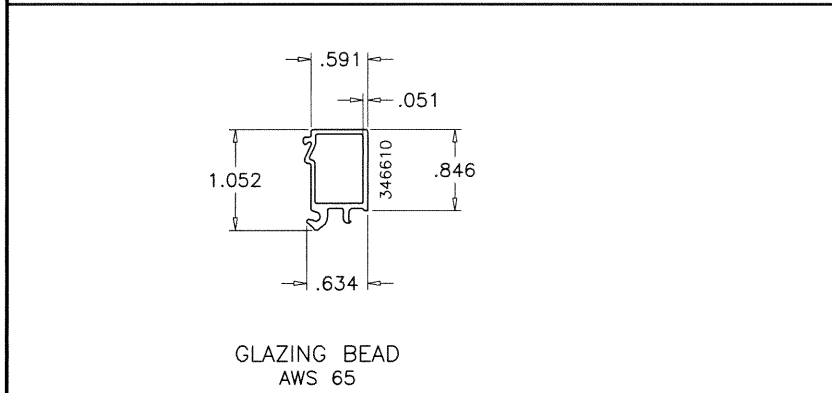
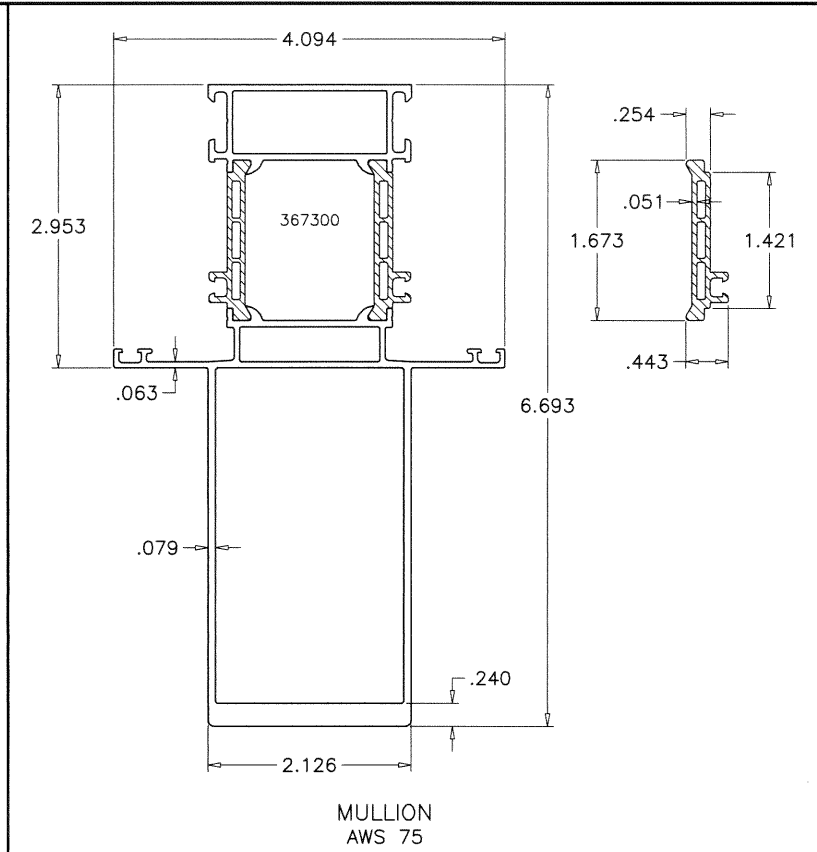
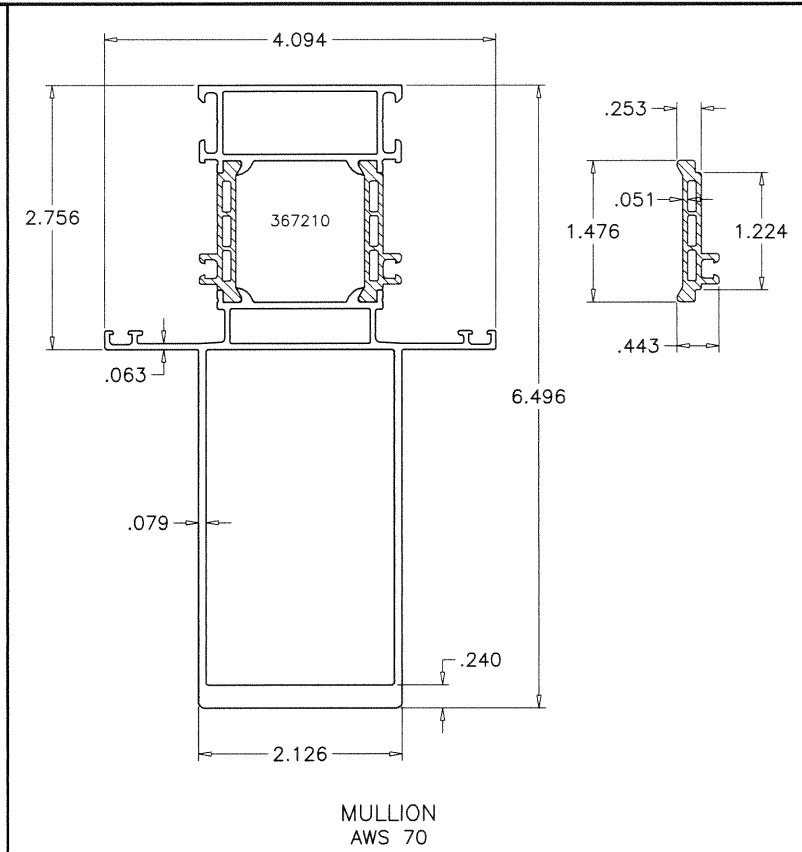
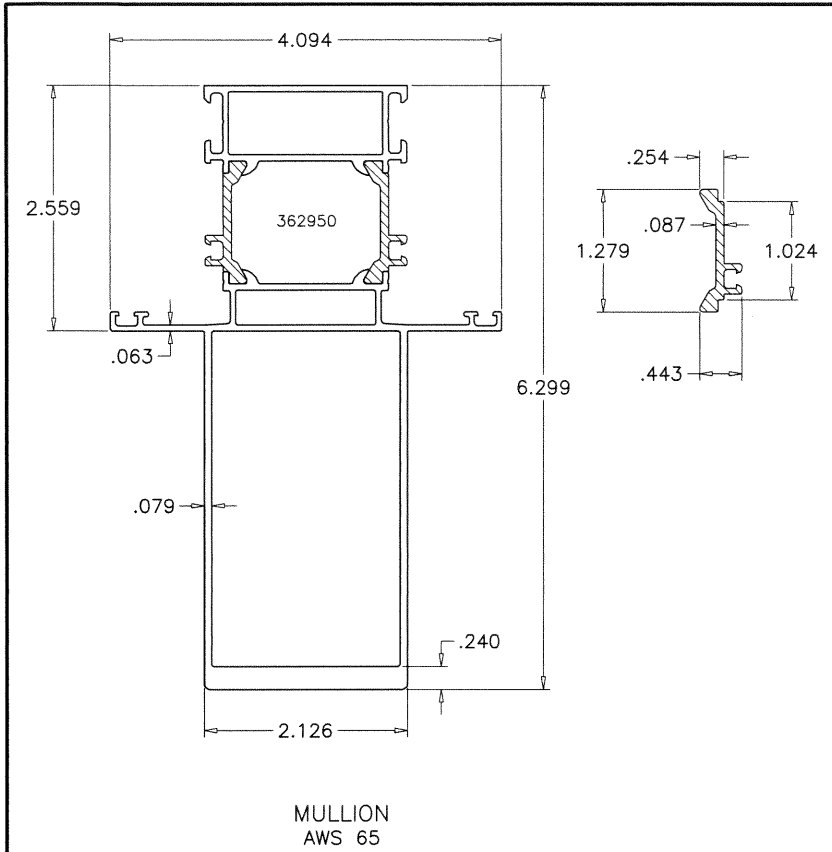
AWS 65 ALUM OUTSWING CASEMENT WDW. (L.M.I.)
Schuco USA L.L.P.
 240 Pane Road
 Newington, CT. 06111
 Phone: (860) 666-0505 Fax: (860) 616-0188

revisions:	
no	by description

date: 05-24-19
 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:
 drawing no.
19-45F
 sheet 9 of 10

Sealed: 9/30/20
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