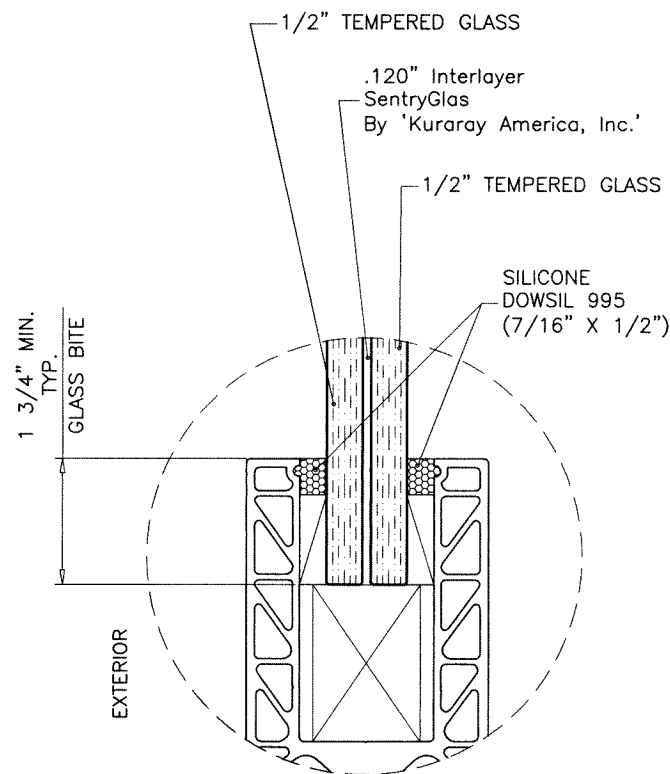




GLAZING DETAIL
1-1/8" OVERALL LAM. GLASS

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

SERIES 'FX3050'
FRAMELESS GLASS WALL SYSTEM (L.M.I.)

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT
SHUTTERS ARE NOT REQUIRED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH 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.

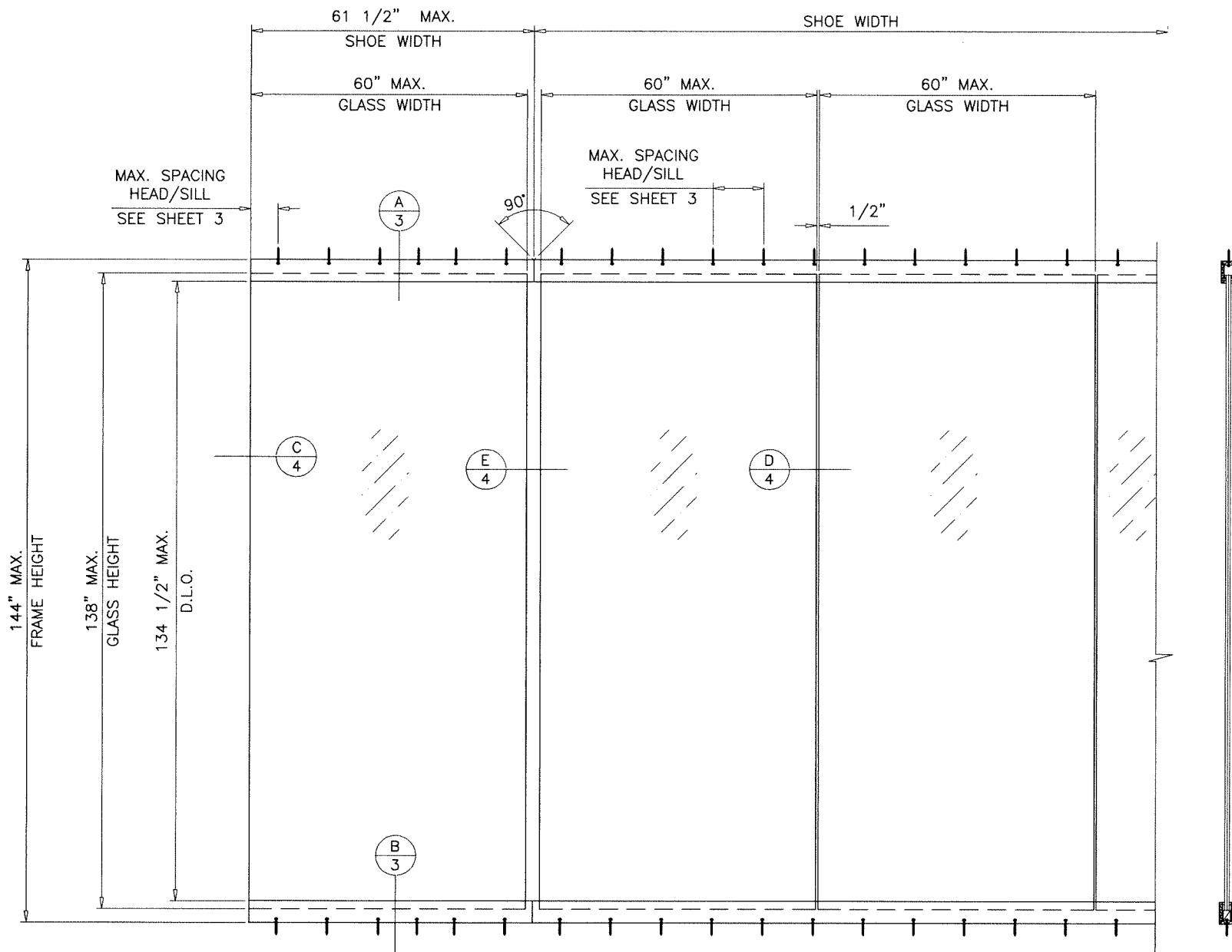
ALL SHIMS TO BE LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL
OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2023/2026 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.



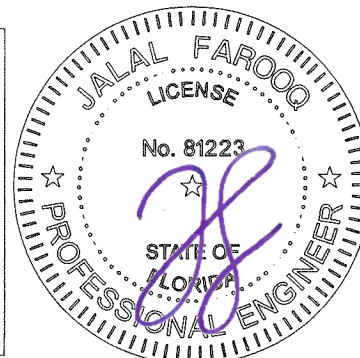
TYPICAL ELEVATION

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

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET
CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES.
COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

Sealed: 9/2/2026

- 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.



NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS).

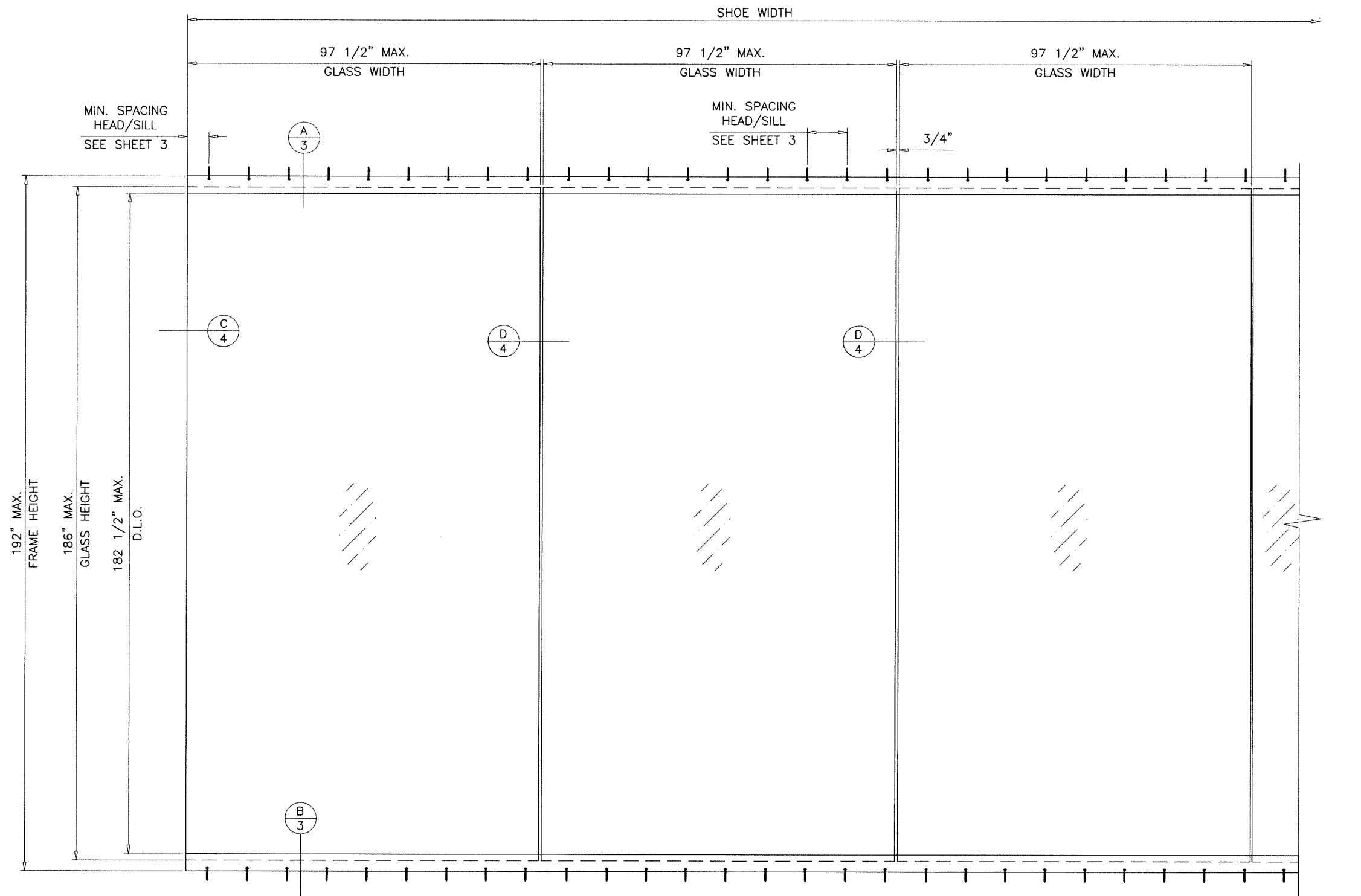
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL: (305) 264-8100 FAX: (305) 262-6978
STORE 18-43F-ES

'FX3050' FRAMELESS GLASS WALL SYSTEM (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL: (305) 638-5151 FAX: (305) 638-5158

no.	date	by	description
A	06.25.18		WOOD OPTION ADDED
B	02.28.19		NEW ELEV. ADDED
C	10.20.20		UPDATED TO 2020 FBC
D	09.26.23		UPDATED TO 2023 FBC
E	09.01.26		UPDATED TO 2026 FBC

date: 04-12-18
scale: 3/8" = 1'-0"
dr. by: TARIQ
chk. by:

drawing no.
18-43F
sheet 1 of 4



TYPICAL ELEVATION

MAXIMUM DESIGN LOAD RATING = + 55.0 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER) - 55.0 PSF

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS).

Sealed: 9/2/2026

FL #21555



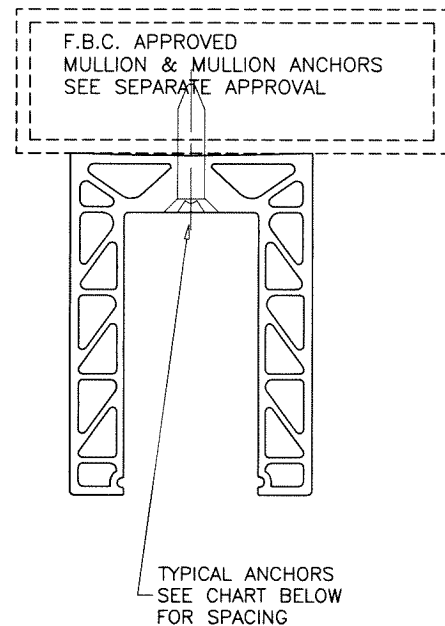
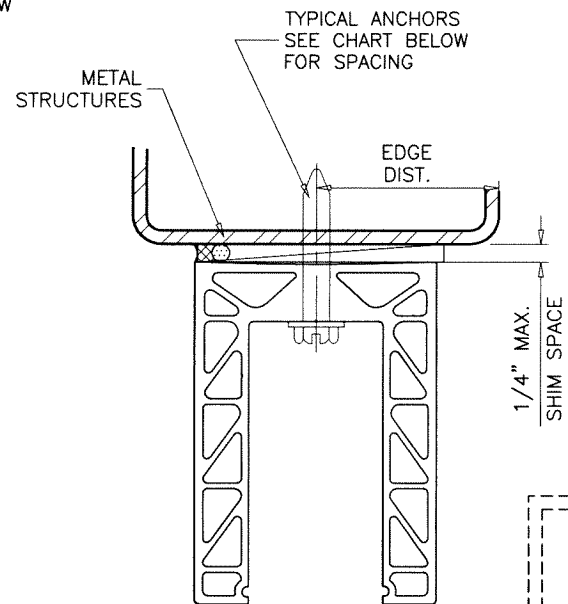
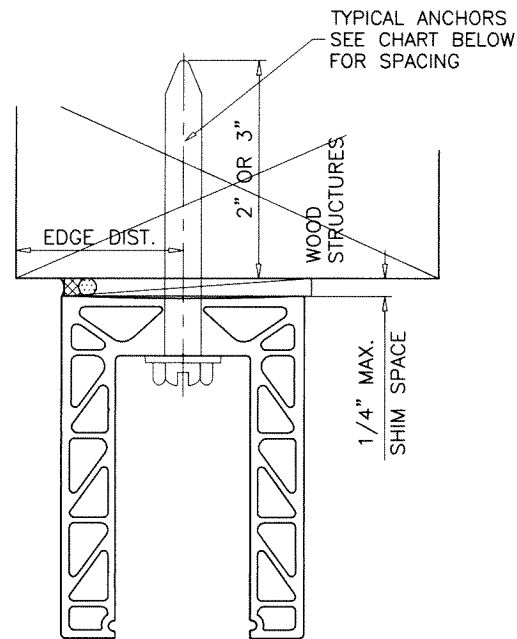
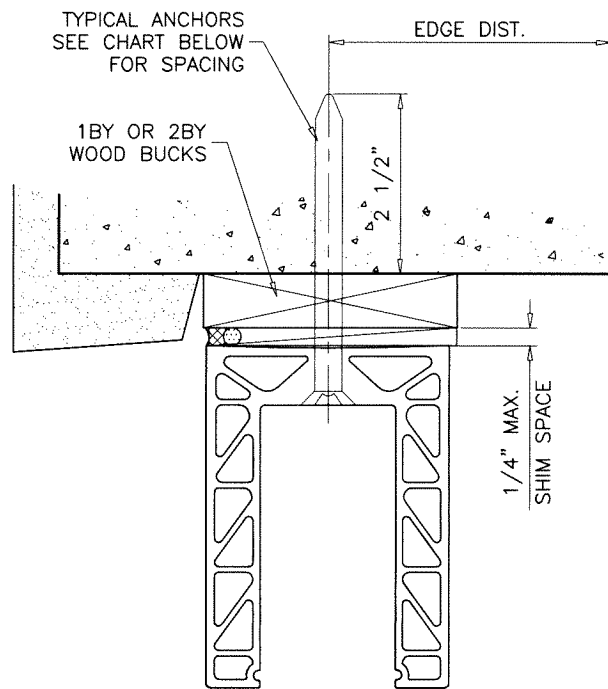
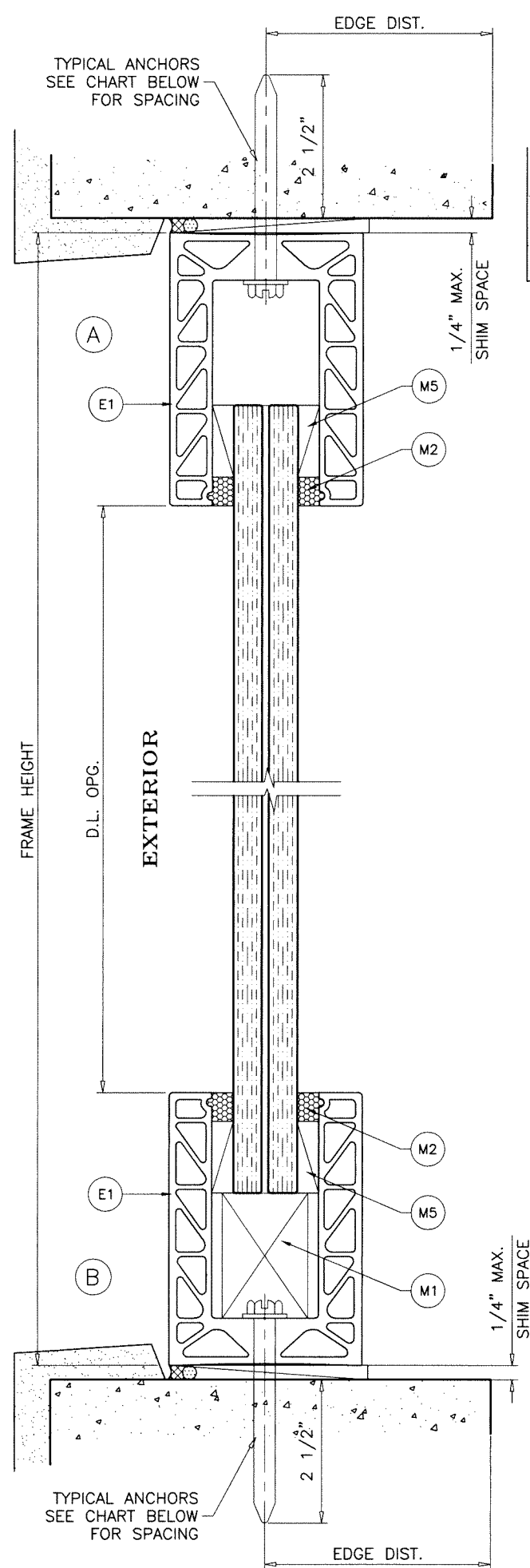
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revisions:
no date by description

date: 04-12-18
scale: 3/8"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
18-43F
sheet 2 of 4



TYPICAL ANCHORS:					
ANCHOR TYPES	SUBSTRATE	MIN. EMBED	MIN. EDGE DIST.	END ANCHORS MAX. SPACING	INTERMEDIATE ANCHORS MAX. SPACING
1/2" DIA. LAG SCREWS	INTO WOOD STRUCTURES	2"	2"	3"	7" O.C.
		3"	2"	5"	11" O.C.
3/8" DIA. SCREW-BOLT+ BY 'DEWALT'	THRU 1BY OR 2BY WOOD BUCKS INTO CONC.	2-1/2"	1-1/2" WOOD 2-5/8" CONC.	3"	7" O.C.
	DIRECTLY INTO CONCRETE	2-1/2"	2-5/8"	5"	11" O.C.
3/8" DIA. MACHINE SCREWS (GRADE 5 CRS)	METAL	3 THREADS BEYOND METAL THICKNESS	3/4"	5"	11" O.C.

WOOD = 1BY, 2BY WOOD BUCKS OR WOOD STRUCTURE S.G. = 0.55 MIN.
 CONCRETE = f'c = 3000 PSI MIN.
 METAL = 3/16" MIN. THK. STEEL Fy = 36 KSI MIN.
 F.B.C. APPROVED MULLION 3/16" MIN. THK.

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURES NOT BY 'E.S. WINDOWS'
 MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER
 THEM TO BUILDING STRUCTURE.

ANCHORS MAY BE HEX WASHER HEAD OR FLAT HEAD AS AVAILABLE.

Sealed: 9/2/2026



FL #21555

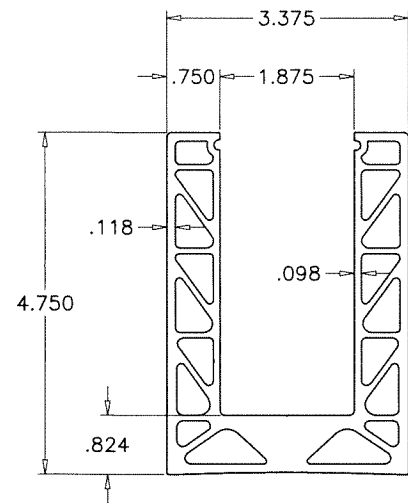
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revisions:		by description	
no	date	no	date

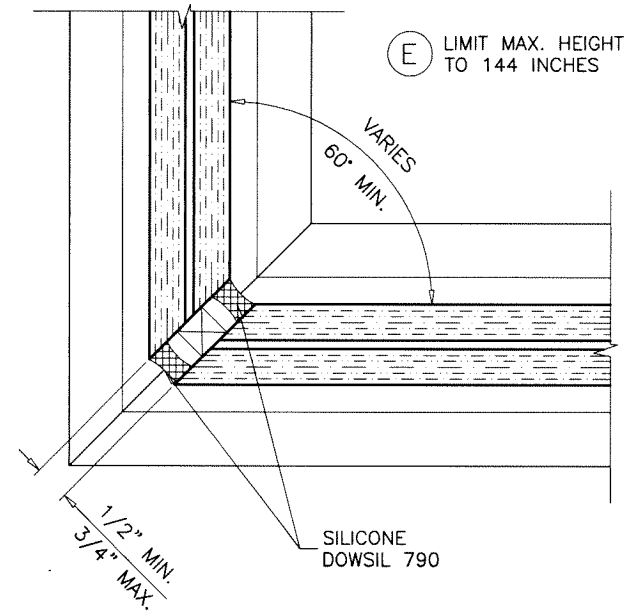
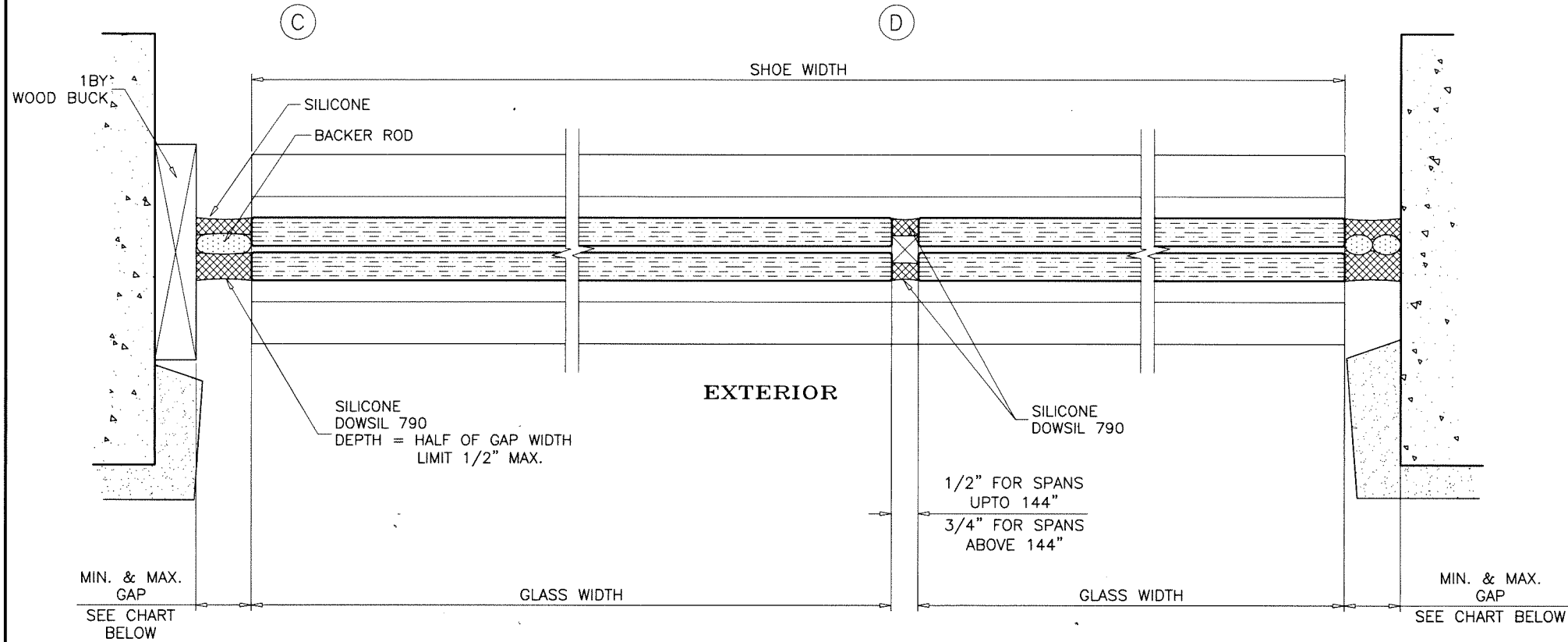
date: 04-12-18
 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
18-43F
 sheet 3 of 4



E1 TOP/BOTTOM SHOE

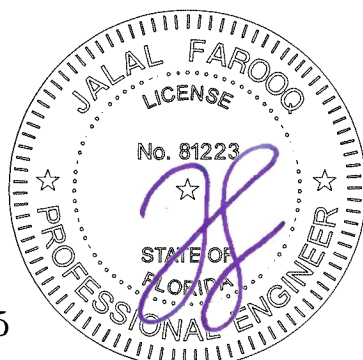
ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	FX-3050-001	2	TOP/BOTTOM SHOE	6063-T5	-
M1	FX-3050-B01	2/ LITE	SETTING BLOCKS AT 1/4 POINTS	SILICONE	DUROMETER 80±5 SHORE A
M2	DOWSIL 995	AS REQD.	GLAZING COMPOUND	SILICONE	-
M5	-	AS REQD.	SIDE SHIMS AT 12" O.C.	PVC	-



MAX. FRAME HEIGHT	DESIGN LOAD PSF	GAP	
		MIN.	MAX.
144"	100.0	1/2"	3/4"
186"	43.0	5/8"	1"
186"	52.0	3/4"	1"
192"	55.0	1"	1"

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.

FL #21555



Sealed: 9/2/2026

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STORE 18-43F-ES

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 sheet 4 of 4