

THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT.
INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA SHALL MEET
THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

OCEANVIEW
VINYL SINGLE HUNG WINDOWS (L.M.I.)

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER
CHARTS SHOWN ON SHEETS 3 AND 4.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE
COMBINATIONS OF S.H./S.H. OR SINGLE HUNG WITH OTHER
WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING
F.B.C. 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 2023 (8TH EDITION)/2026 (9TH EDITION) FLORIDA
BUILDING CODE FOR NON HIGH VELOCITY HURRICANE ZONE.

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.

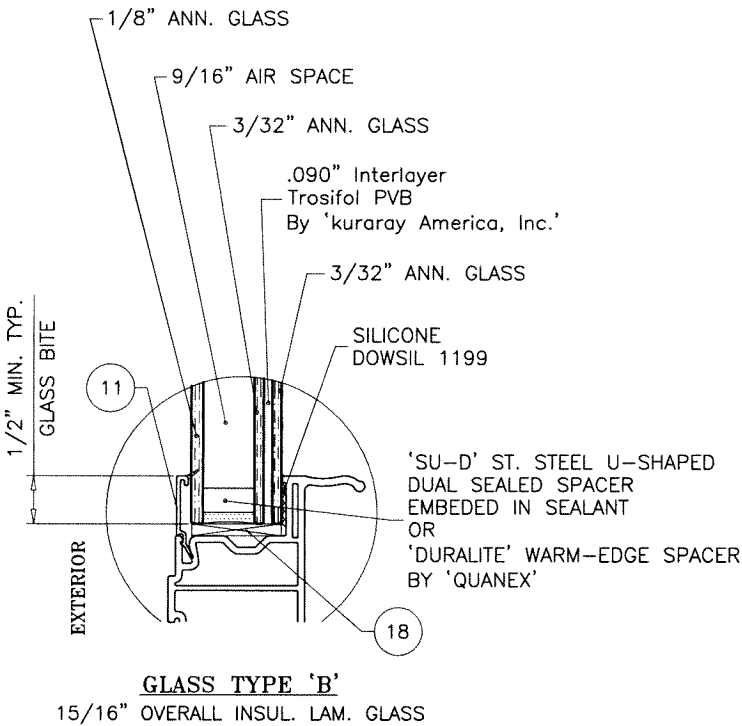
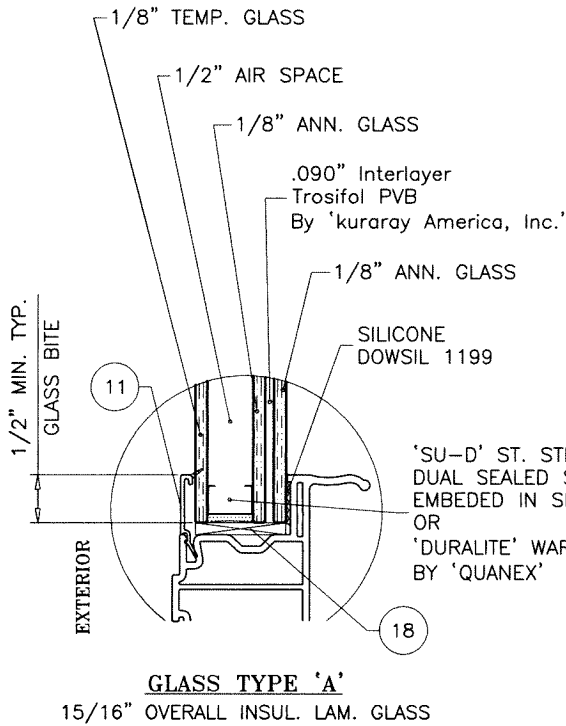
ALL SHIMS TO BE LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL
OR OTHER RIGID MATERIALS).

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.



GLAZING OPTIONS

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.

INSUL. LAM. GLASS
LARGE MISSILE IMPACT

Sealed: 9/25/2026

FL #29511

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

OCEANVIEW VINYL SINGLE HUNG WDW. (L.M.I.)

VIVINCO, INC.
851 HEMLOCK ROAD
MORGANTOWN, PA. 19543
PHONE: (610) 286-8884 FAX: (610) 286-8877

no	date	by	description
A	03.01.21		UPDATED TO 2020 FBC
B	09.23.26		UPDATED TO 2026 FBC

date: 03-19-19
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
19-20F

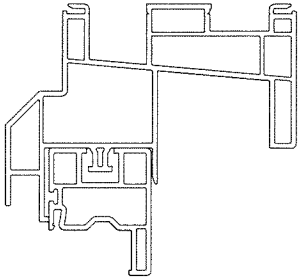
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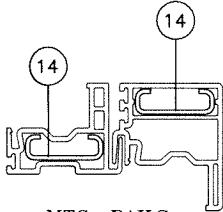
COMP-ANL\19-20F-VI

EQUAL LITES WINDOWS DESIGN LOAD CAPACITY - PSF							
INTERIOR FRAME DIMS.		GLASS TYPE 'A'				GLASS TYPE 'B'	
		REINF. 'LRKR'	REINF. 'FMTR'	REINF. 'FMTR'	REINF. 'FMTR'	REINF. 'FMTR'	REINF. 'FMTR'
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
18-1/8"	25"	70.0	70.0	70.0	70.0	50.0	50.0
25-1/2"		70.0	70.0	70.0	70.0	50.0	50.0
36"		50.0	50.0	50.0	50.0	50.0	50.0
18-1/8"	37-3/8"	70.0	70.0	70.0	70.0	50.0	50.0
25-1/2"		70.0	70.0	70.0	70.0	50.0	50.0
36"		50.0	50.0	50.0	50.0	50.0	50.0
18-1/8"	49-5/8"	70.0	70.0	70.0	70.0	50.0	50.0
25-1/2"		70.0	70.0	70.0	70.0	50.0	50.0
36"		50.0	50.0	50.0	50.0	50.0	50.0
18-1/8"	55"	70.0	70.0	70.0	70.0	50.0	50.0
25-1/2"		70.0	70.0	70.0	70.0	50.0	50.0
36"		50.0	50.0	50.0	50.0	50.0	50.0
18-1/8"	62"	70.0	70.0	70.0	70.0	50.0	50.0
25-1/2"		70.0	70.0	70.0	70.0	50.0	50.0
36"		50.0	50.0	50.0	50.0	50.0	50.0
18-1/8"	71"	70.0	70.0	70.0	70.0	50.0	50.0
25-1/2"		70.0	70.0	70.0	70.0	50.0	50.0
36"		-	-	50.0	50.0	50.0	50.0
18-1/8"	75"	70.0	70.0	70.0	70.0	50.0	50.0
25-1/2"		70.0	70.0	70.0	70.0	50.0	50.0
36"		-	-	50.0	50.0	50.0	50.0

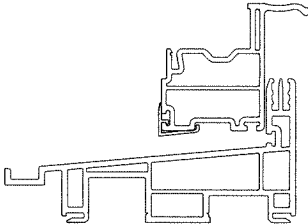
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WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
30"	66"	70.0	70.0	70.0	70.0	50.0	50.0
36"		70.0	70.0	70.0	70.0	50.0	50.0
40"		-	-	50.0	50.0	50.0	50.0
42"		-	-	50.0	50.0	50.0	50.0
48"		-	-	50.0	50.0	50.0	50.0
52"		-	-	50.0	50.0	39.9	39.9
30"	72"	70.0	70.0	70.0	70.0	50.0	50.0
36"		70.0	70.0	70.0	70.0	50.0	50.0
40"		-	-	50.0	50.0	50.0	50.0
42"		-	-	50.0	50.0	50.0	50.0
48"		-	-	50.0	50.0	50.0	50.0
52"		-	-	50.0	50.0	-	-
30"	80"	70.0	70.0	70.0	70.0	50.0	50.0
36"		-	-	50.0	50.0	50.0	50.0
40"		-	-	50.0	50.0	50.0	50.0
42"		-	-	50.0	50.0	50.0	50.0
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30"	91"	-	-	50.0	50.0	50.0	50.0
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42"		-	-	50.0	50.0	-	-
48"		-	-	50.0	50.0	-	-
52"		-	-	50.0	50.0	-	-
30"	96"	-	-	50.0	50.0	50.0	50.0
36"		-	-	50.0	50.0	50.0	50.0
40"		-	-	50.0	50.0	-	-
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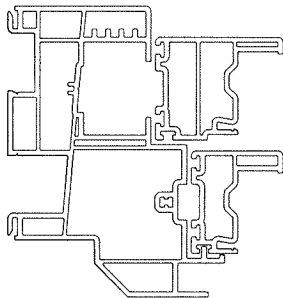
VENT TOP RAIL



MTG. RAILS



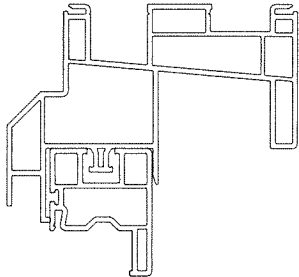
VENT BOTTOM RAIL



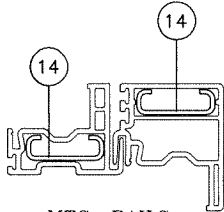
SIDE STILE

REINF. 'LRKR'

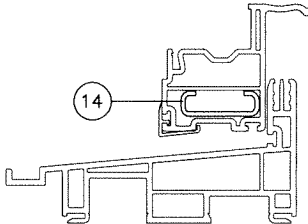
Sealed: 9/25/2026



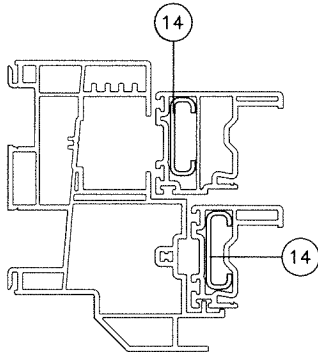
VENT TOP RAIL



MTG. RAILS

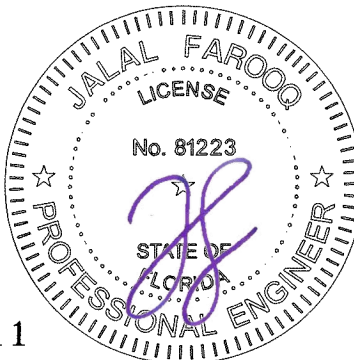


VENT BOTTOM RAIL



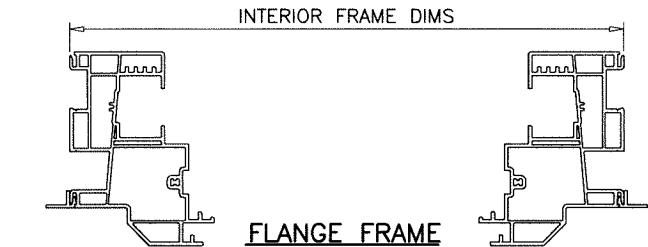
SIDE STILE

REINF. 'FMTR'

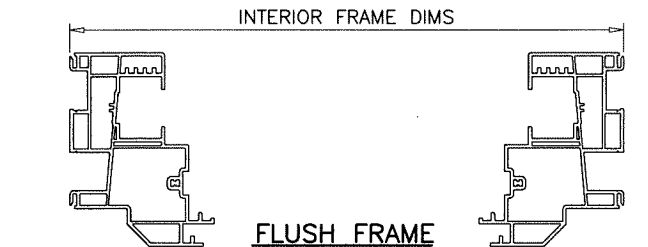


NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

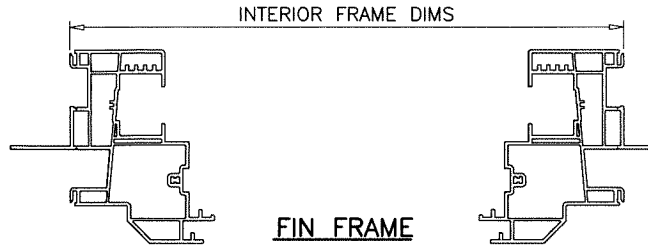
FL #29511



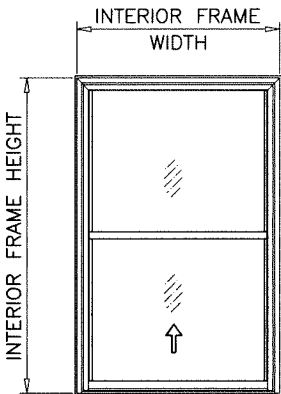
FLANGE FRAME



FLUSH FRAME



FIN FRAME



EQUAL LITES

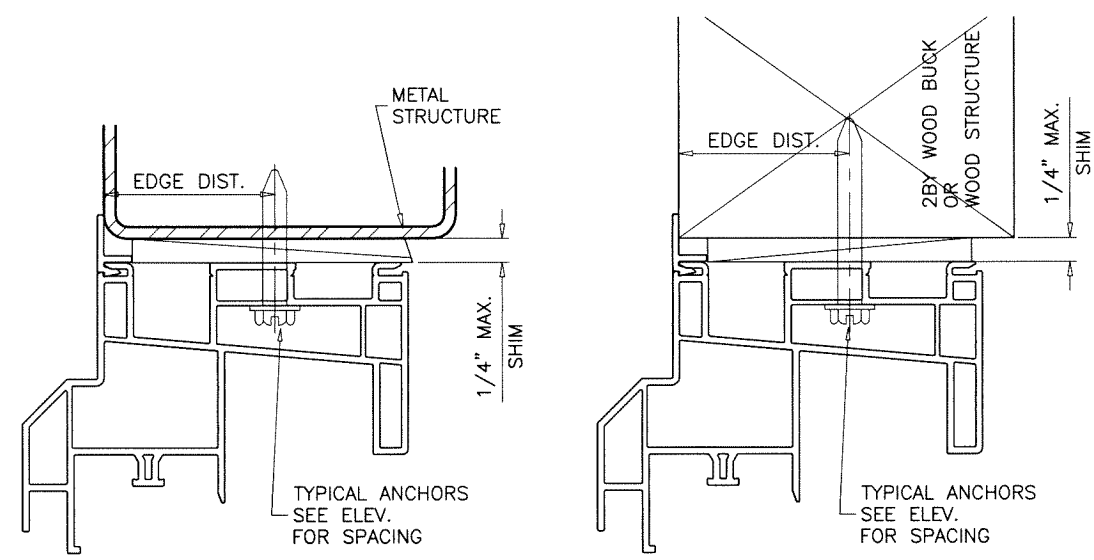
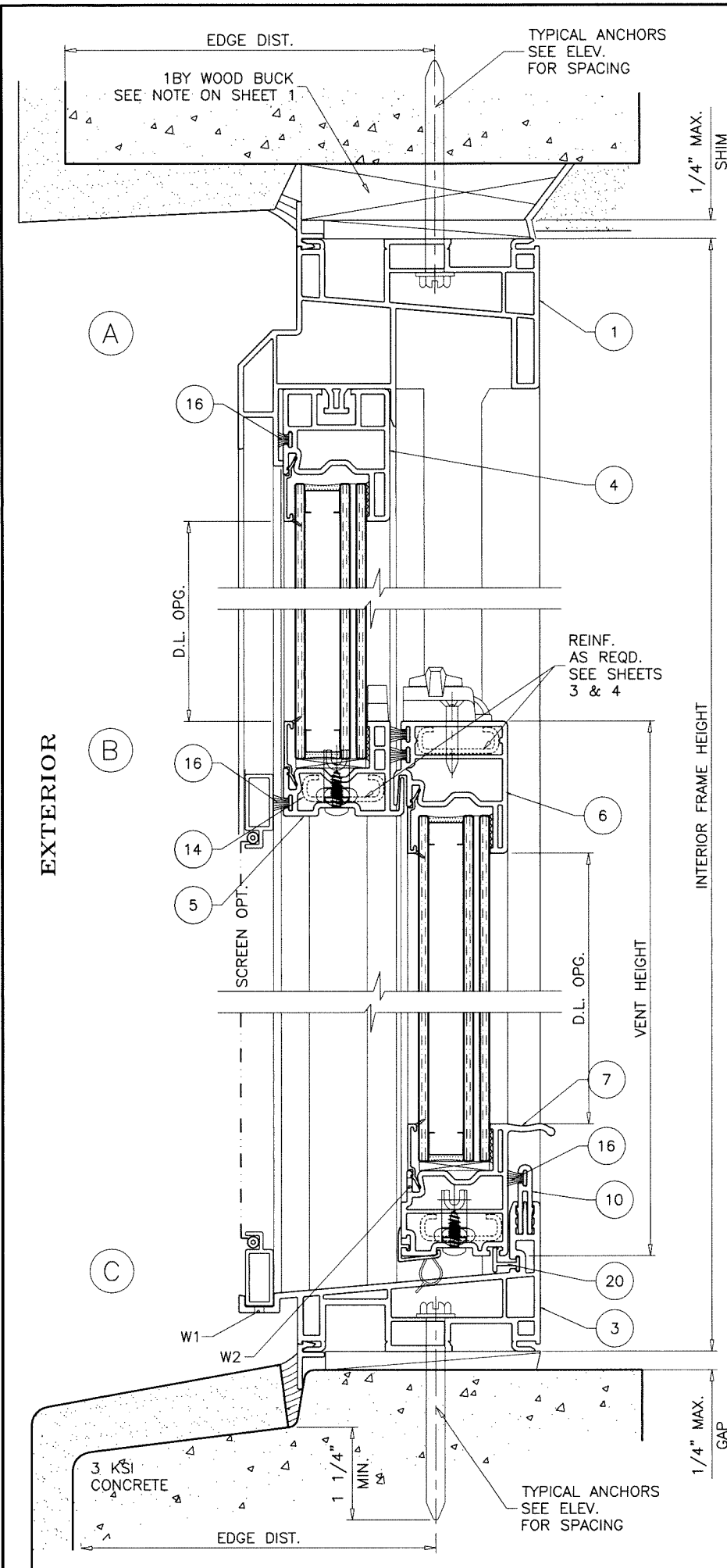
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COMP-ANL 19-20F-VI

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Revisions:		no date by description	
date:	03-19-19	scale:	-
dr. by:	TARIQ	chk. by:	
drawing no.	19-20F	sheet	3 of 10



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

WEEPHOLES:

- W1 = 1/8" X 1" WEEP SLOTS AT 2" FROM EACH END
- W2 = 3/16" X 3/8" WEEP SLOTS AT 3-1/2" FROM EACH END

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

#10 WOOD SCREWS (GRADE 2 CRS)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-3/8" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

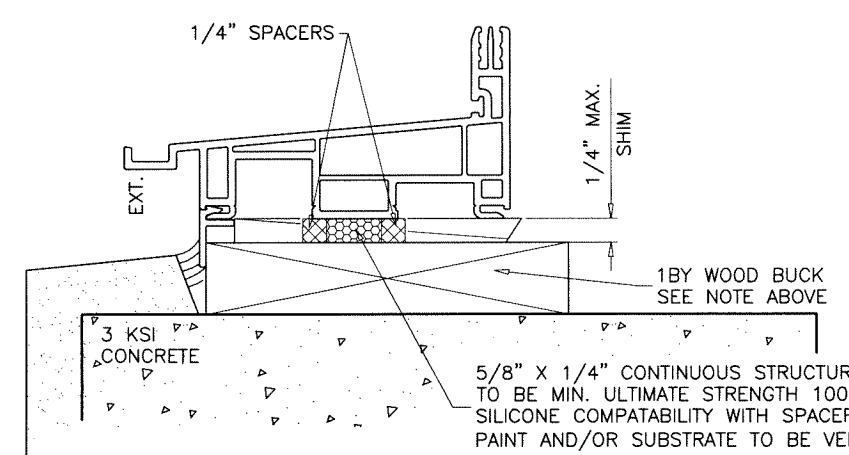
3/16" DIA. TAPCON BY 'ITW' (Fu=125 KSI, Fy=100 KSI)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

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

#10 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 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. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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

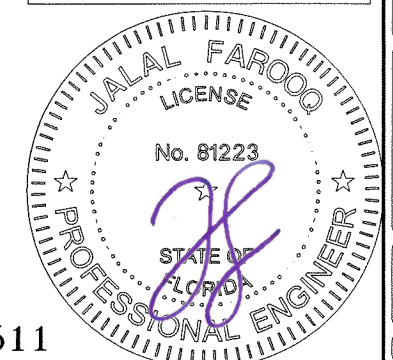
WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



SILL OPTION WITHOUT FRAME ANCHORS

Sealed: 9/25/2026

FLANGE FRAMES



FL #29511

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
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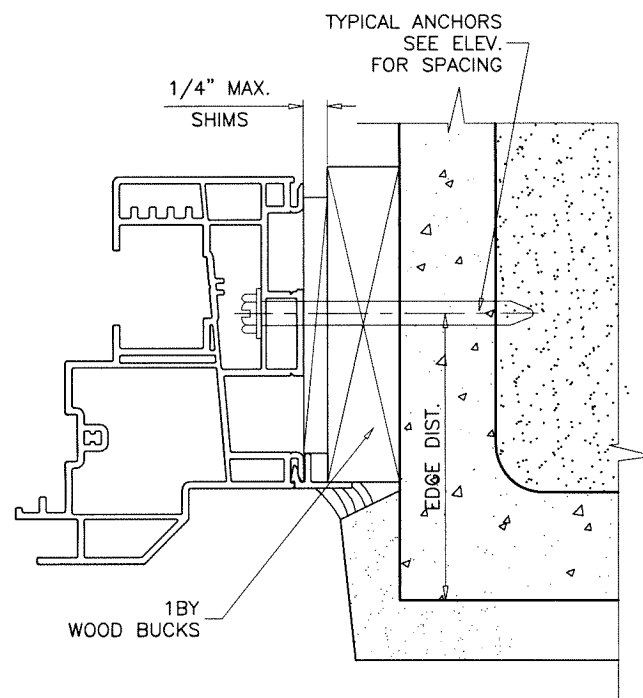
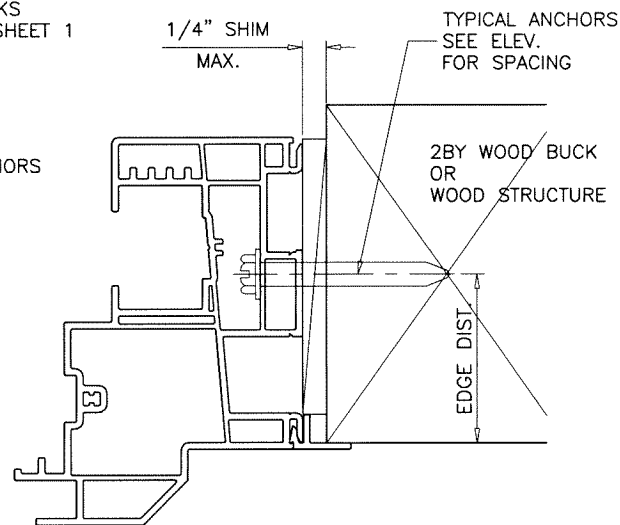
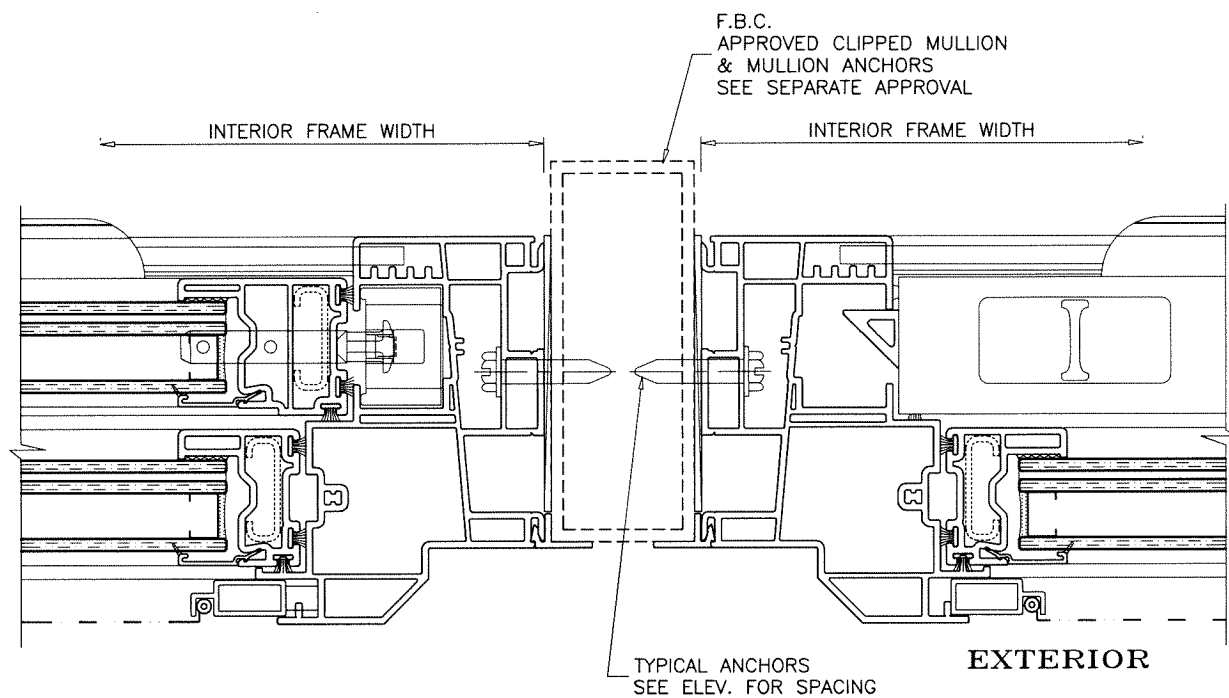
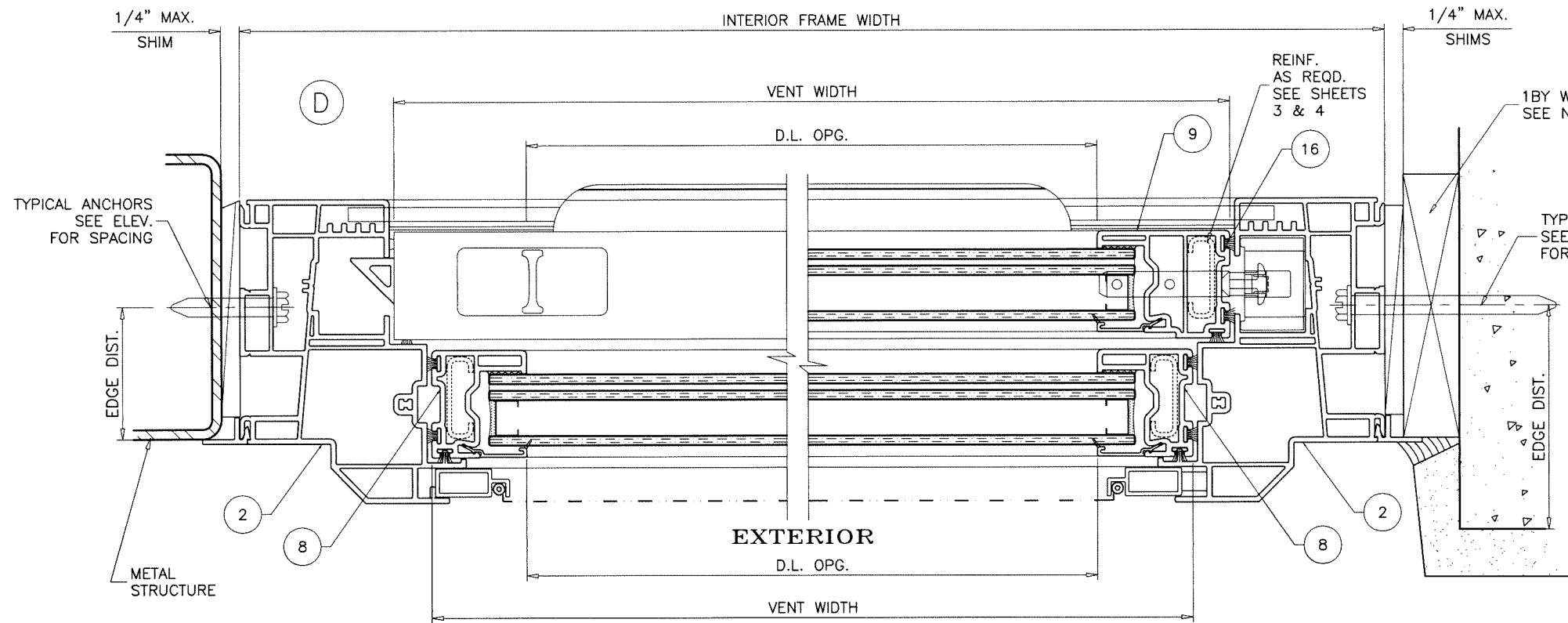
OCEANVIEW VINYL SINGLE HUNG WDW. (L.M.I.)

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revisions:	
no	date by description

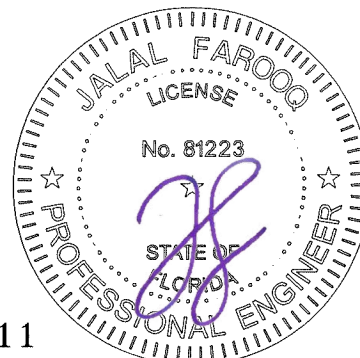
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 dr. by: TARIQ
 chk. by:

drawing no.
19-20F
 sheet 5 of 10



Sealed: 9/25/2026

FLANGE FRAMES



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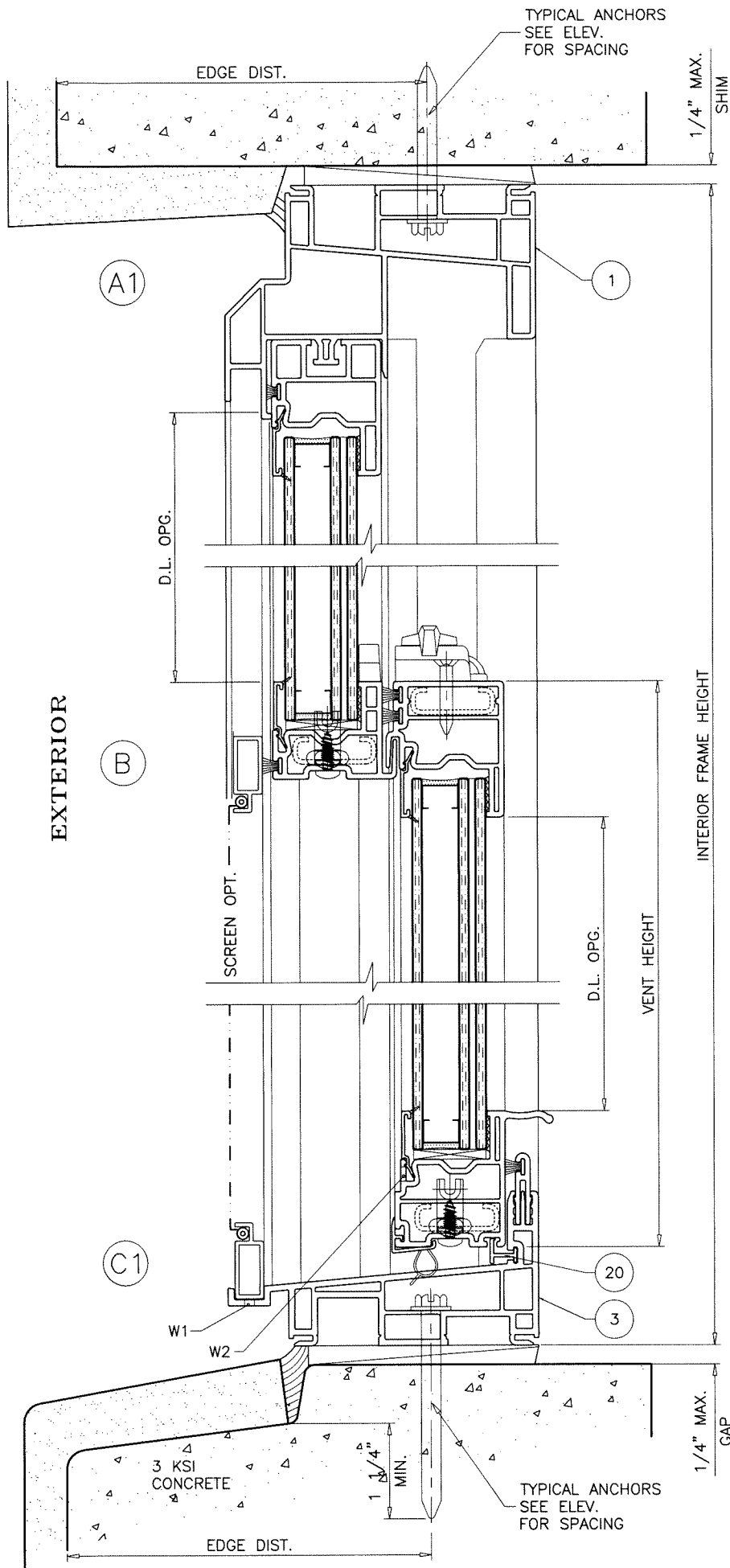
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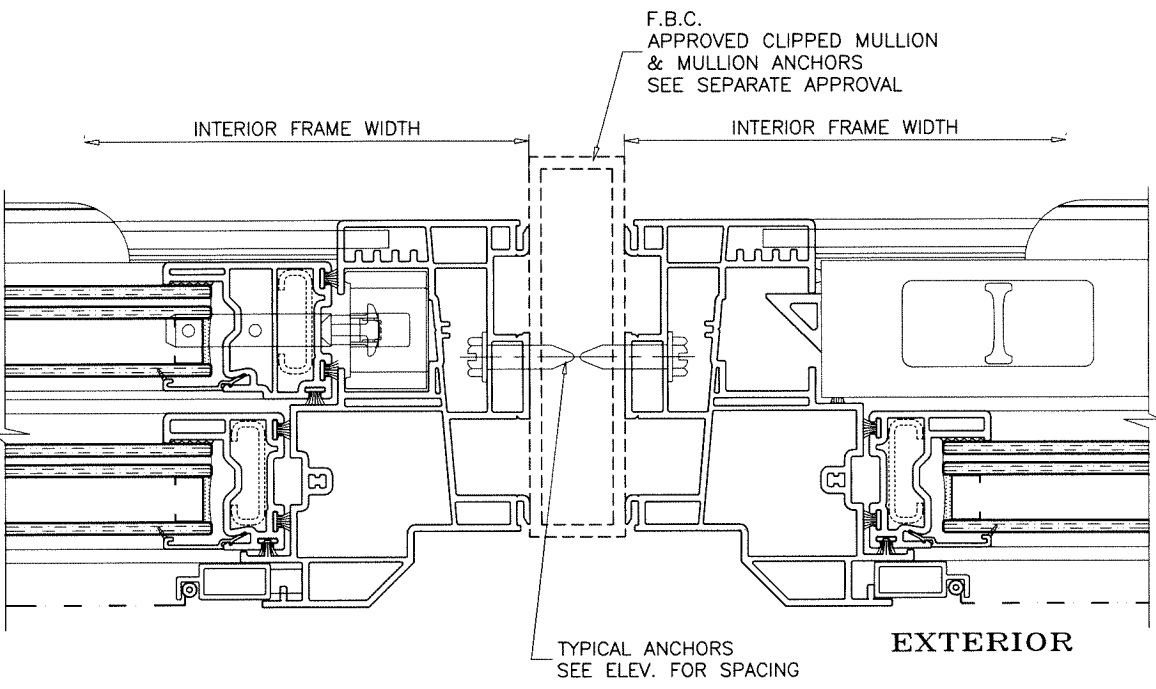
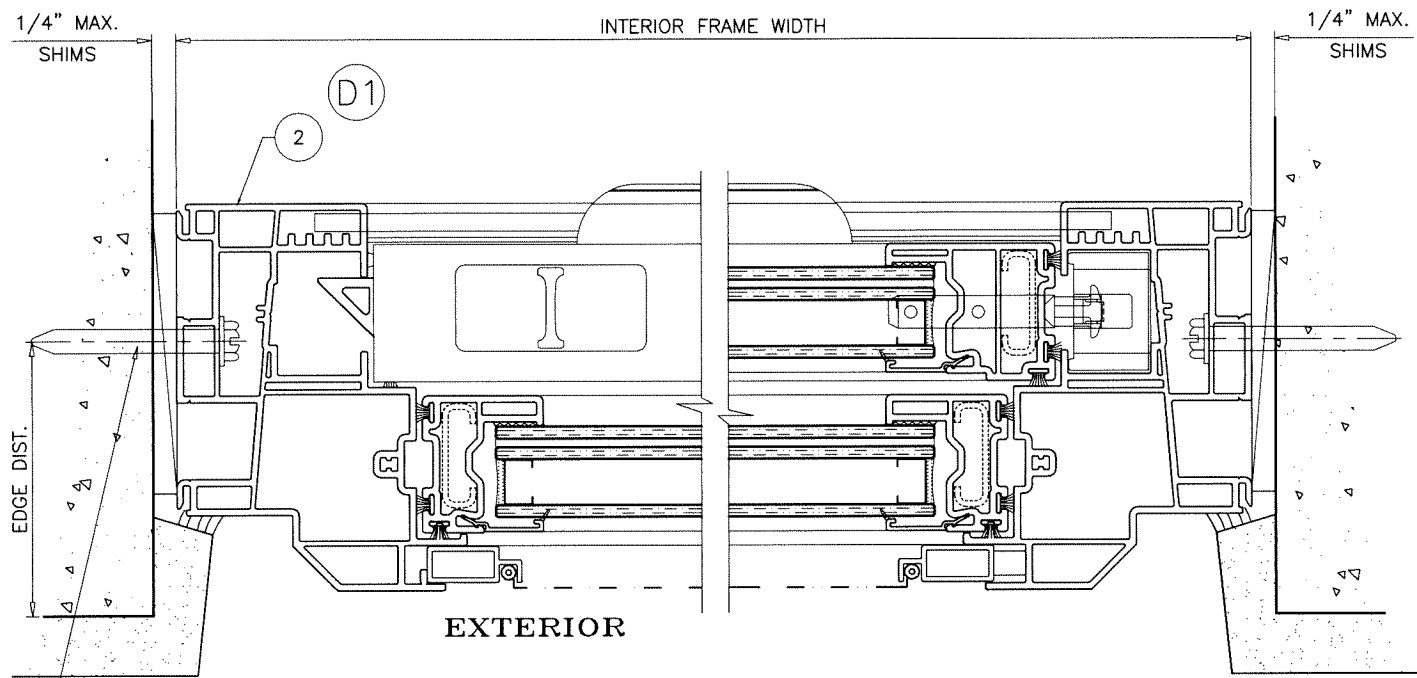
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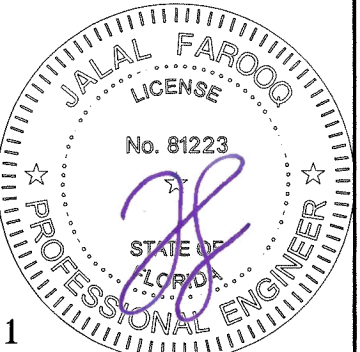


FLUSH FRAMES CAN BE USED AT ALL SUBSTRATES SHOWN ON SHEETS 5 AND 6.



Sealed: 9/25/2026

FLUSH FRAMES



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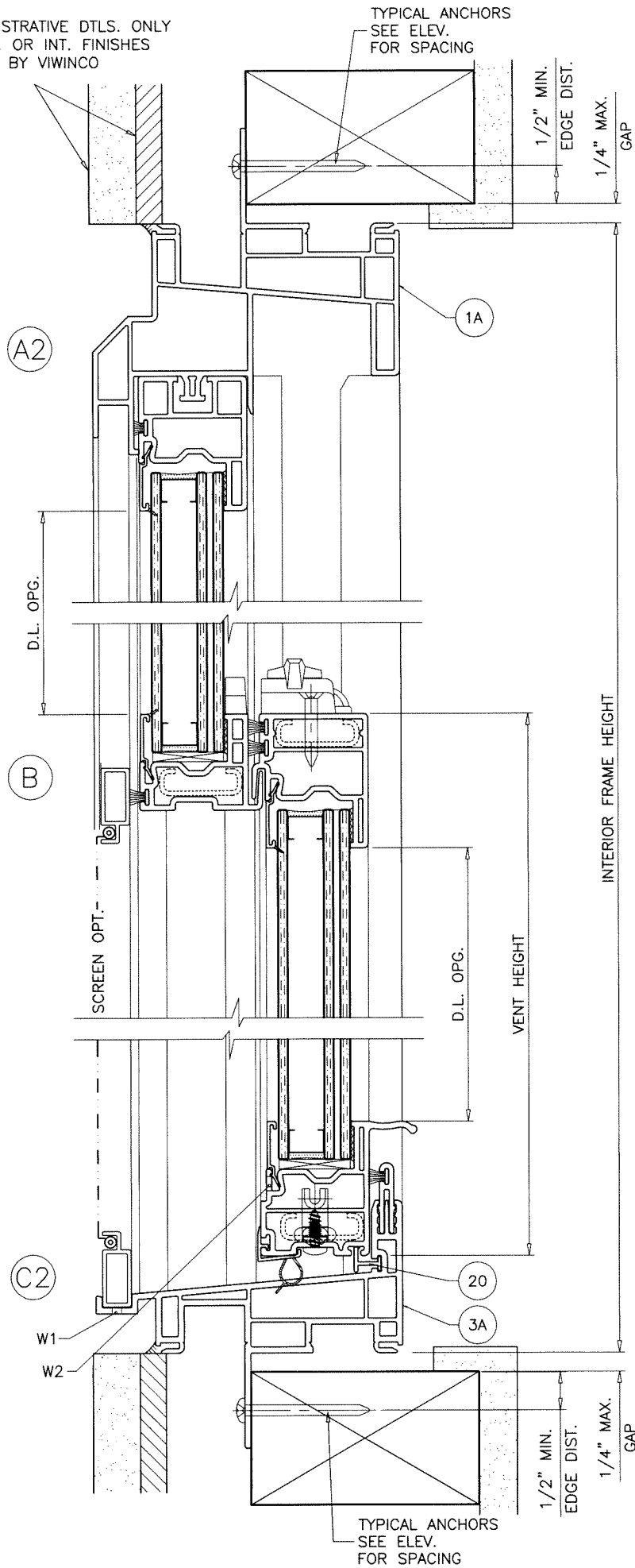
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sheet 7 of 10

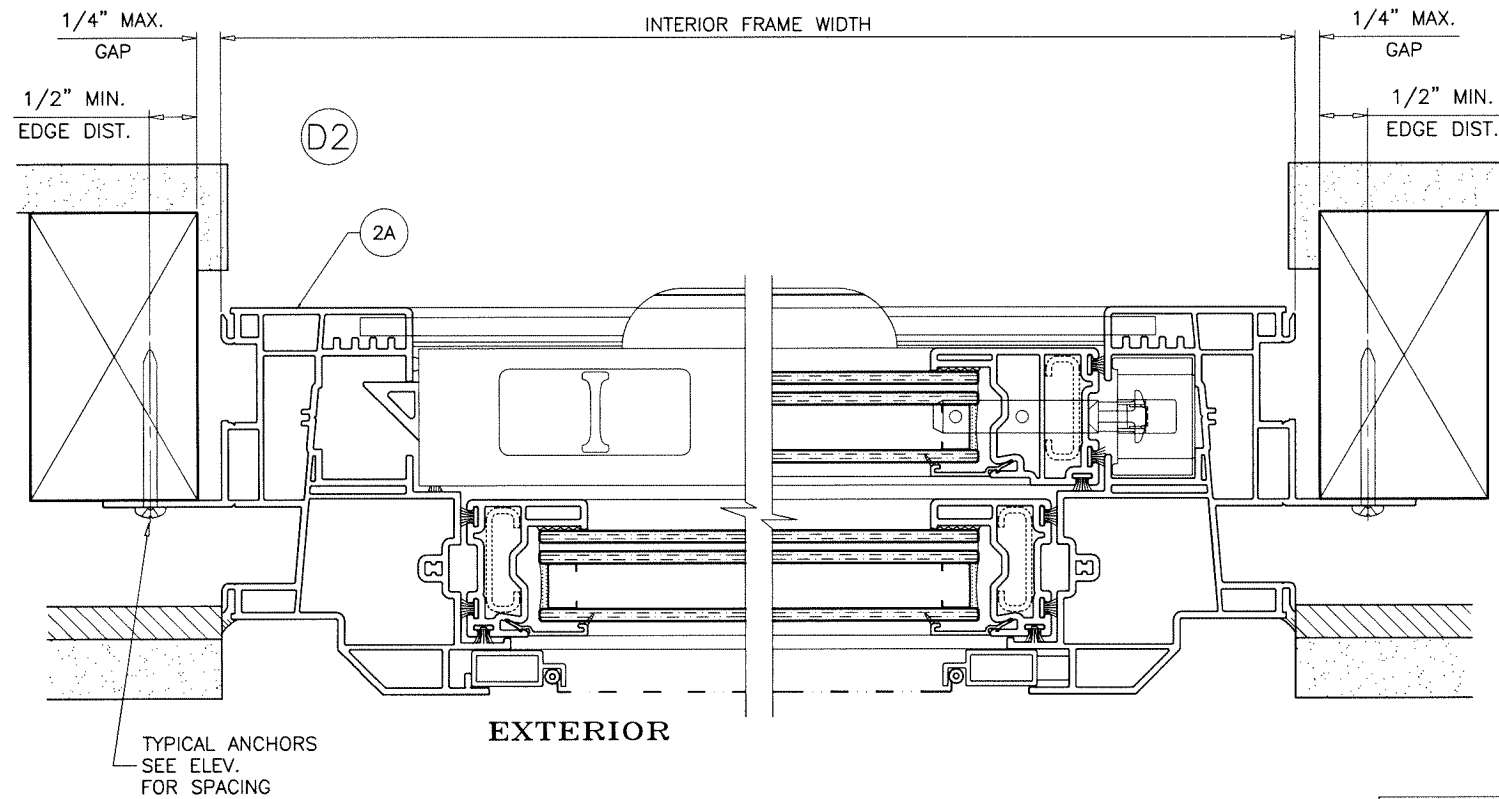
ILLUSTRATIVE DTLS. ONLY
EXT. OR INT. FINISHES
NOT BY VIWINCO

EXTERIOR



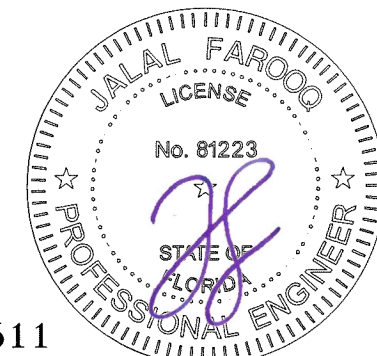
TYPICAL ANCHORS:
FIN FRAMES: SEE ELEV. FOR SPACING

#8 SMS (GRADE 2 CRS)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
1/2" MIN. EDGE DISTANCE



Sealed: 9/25/2026

FIN FRAMES

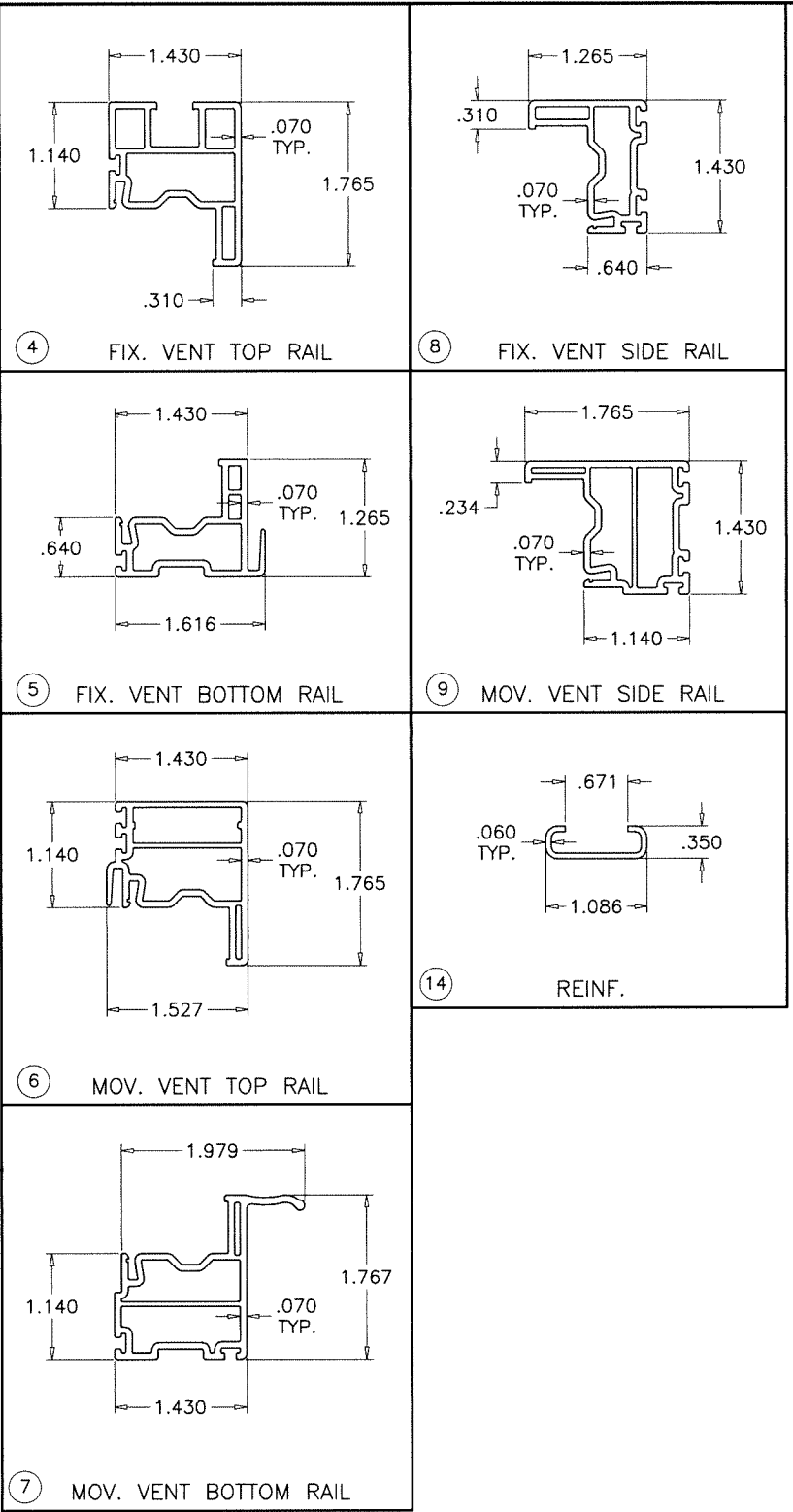
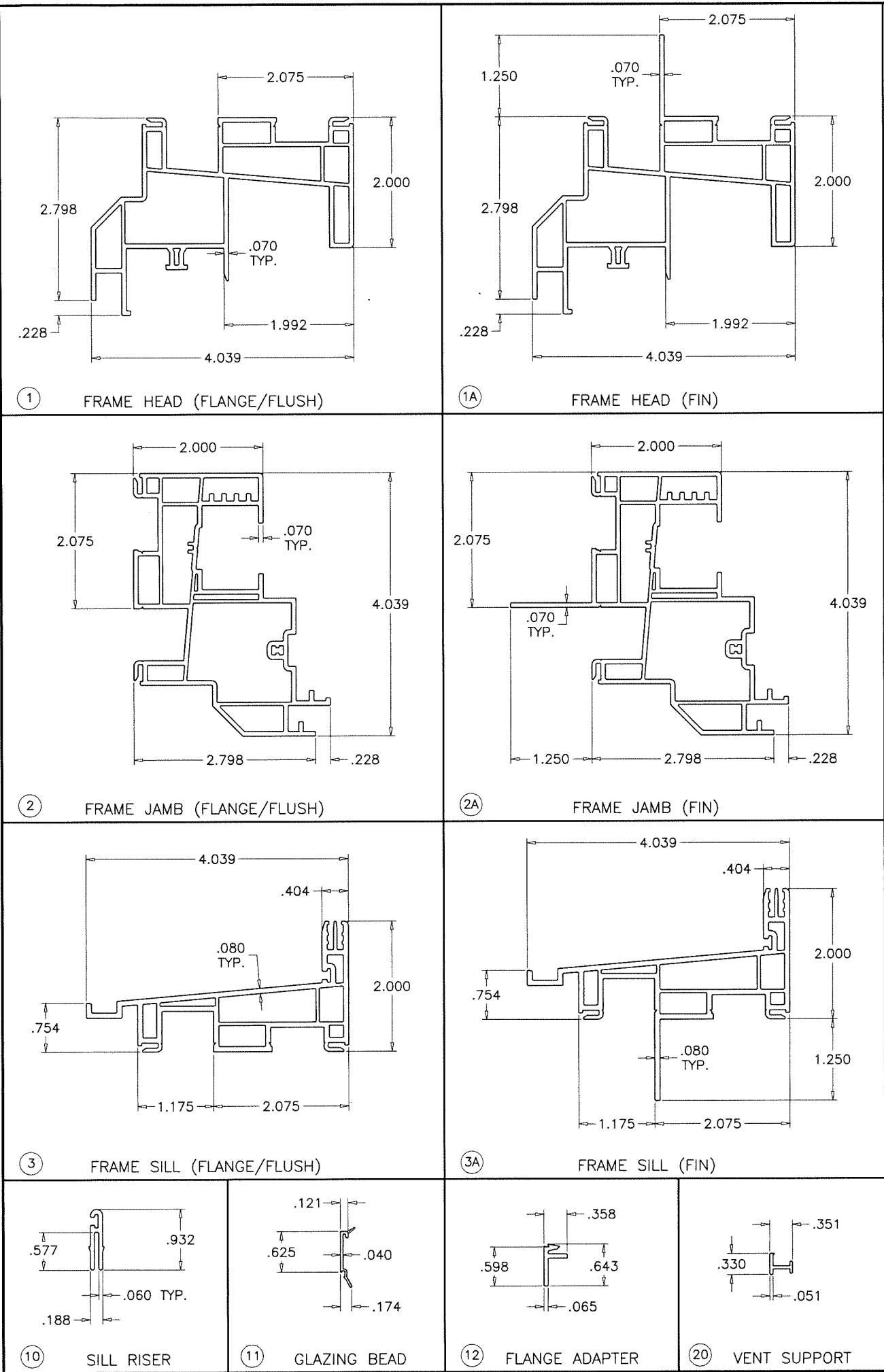


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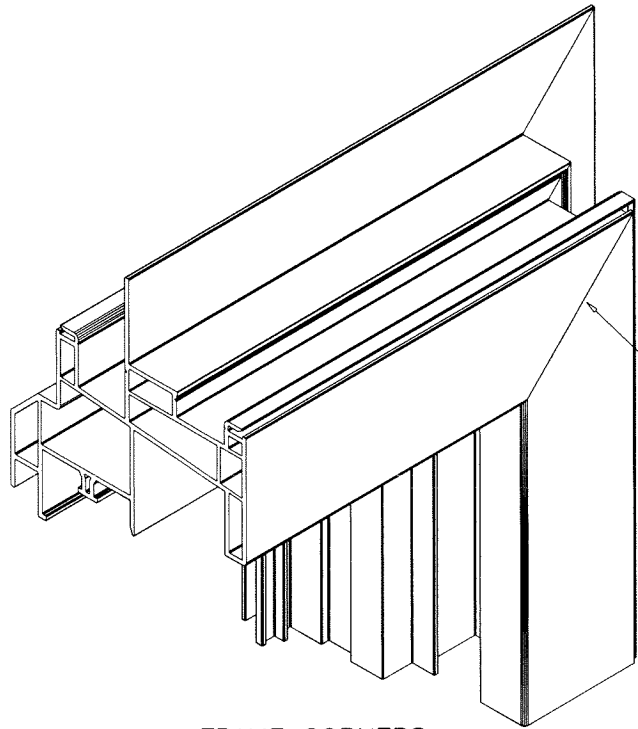
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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

OCEANVIEW VINYL SINGLE HUNG WDW. (L.M.I.)

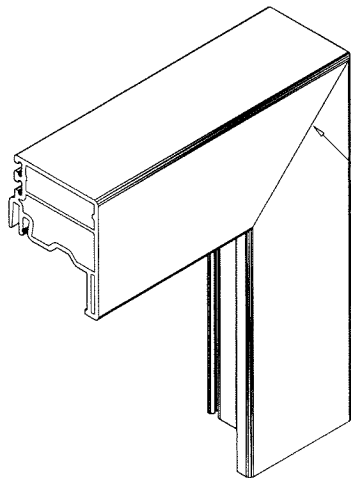
VWINCO, INC.
851 HEMLOCK ROAD
MORGANTOWN, PA. 19543
PHONE: (610) 286-8884 FAX: (610) 286-8877

revisions:	
no	by description

date: 03-19-19	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
drawing no.		19-20F	
sheet 9 of 10			



FRAME CORNERS



VENT CORNERS

MITERED WELDED CORNERS

MITERED WELDED CORNERS

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	8917	1	FRAME HEAD (FLANGE/FLUSH)	RIGID PVC	DECEUNINCK
1A	8917	1	FRAME HEAD (FIN)	RIGID PVC	DECEUNINCK
2	8918/8919	2	FRAME JAMB (FLANGE/FLUSH)	RIGID PVC	DECEUNINCK
2A	8918/8919	2	FRAME JAMB (FIN)	RIGID PVC	DECEUNINCK
3	8911	1	FRAME SILL (FLANGE/FLUSH)	RIGID PVC	DECEUNINCK
3A	8911	1	FRAME SILL (FIN)	RIGID PVC	DECEUNINCK
4	5313	1	FIX. VENT TOP RAIL	RIGID PVC	DECEUNINCK
5	5309	1	FIX. VENT BOTTOM RAIL	RIGID PVC	DECEUNINCK
6	5308	1	MOV. VENT TOP RAIL	RIGID PVC	DECEUNINCK
7	5305	1	MOV. VENT BOTTOM RAIL	RIGID PVC	DECEUNINCK
8	5307	1	FIX. VENT SIDE RAIL	RIGID PVC	DECEUNINCK
9	5306	1	MOV. VENT SIDE RAIL	RIGID PVC	DECEUNINCK
10	5142	1	SILL RISER	RIGID PVC	DECEUNINCK
11	5144	AS REQD.	GLAZING BEAD	RIGID PVC	DECEUNINCK
12	8346	AS REQD.	FLANGE ADAPTER	RIGID PVC	DECEUNINCK
14	6608	AS REQD.	REINFORCING	6105-T5	-
16	3515	AS REQD.	POLYPILE WITH FIN W'STRIPPING	-	ULTRAFAB
17	7531	2	VENT STOP	-	CENTRAL PLASTICS
18	7240T	2/ LITE	SETTING BLOCK	EPDM	TB PHILLY
19	-	AS REQD.	EXTRUDED ALUMINUM SCREEN (OPTIONAL)	-	LEADING EDGE
20	6609	1	VENT SUPPORT	6063-T5	-

WHITE PVC EXTRUSIONS TO BE LABELED WITH AAMA EXTRUDER CODE, EXTRUDER NAME, CITY AND STATE.

HARDWARE:

METAL SWEEP LOCK WITH ADJACENT KEEPERS BY 'TRUTH' LOCATED AT 12" FROM EACH END OF MOVING VENT TOP RAIL

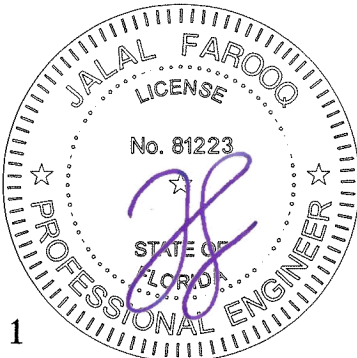
VINYL TILT LATCH BY 'FOUR-JAKS' AT EACH END OF MOVING VENT TOP RAIL

METAL PIVOT BARS BY 'FOUR-JAKS' LOCATED AT EACH END OF MOVING VENT BOTTOM RAIL

NIGHT LATCHES BY 'FOUR-JAKS' LOCATED AT UPPER VENT, 3" ABOVE MEETING RAILS

CONSTANT FORCE BALANCE BY 'FOUR-JAKS' ONE IN EACH JAMB

Sealed: 9/25/2026



FL #29511

AL-FAROOQ CORPORATION
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(C.A.N. 3538)

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