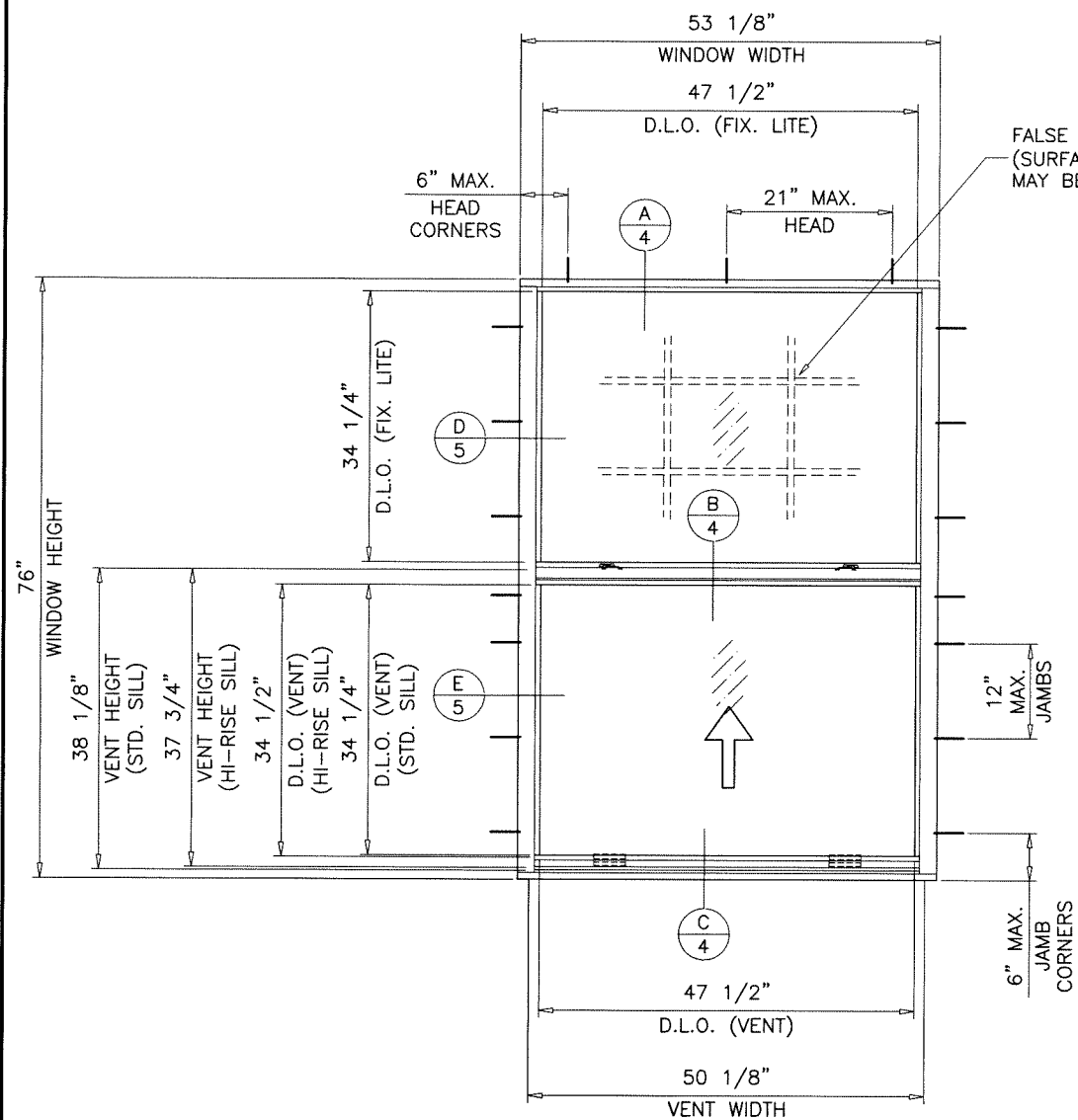
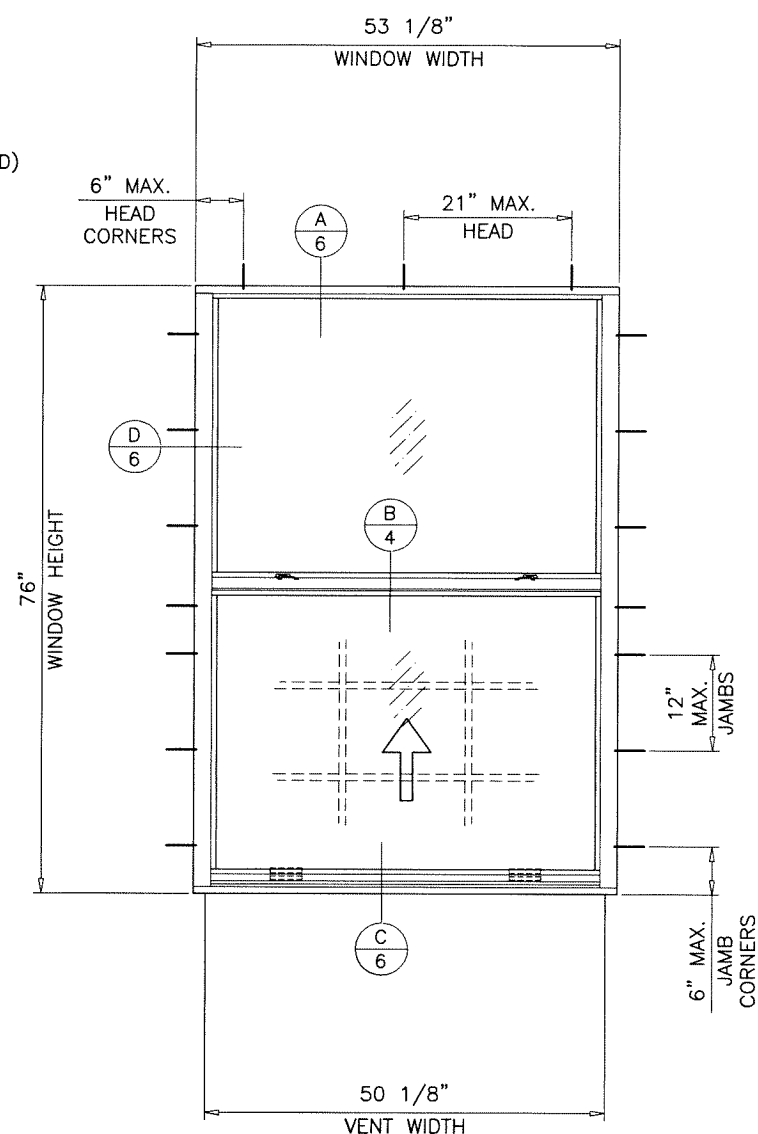
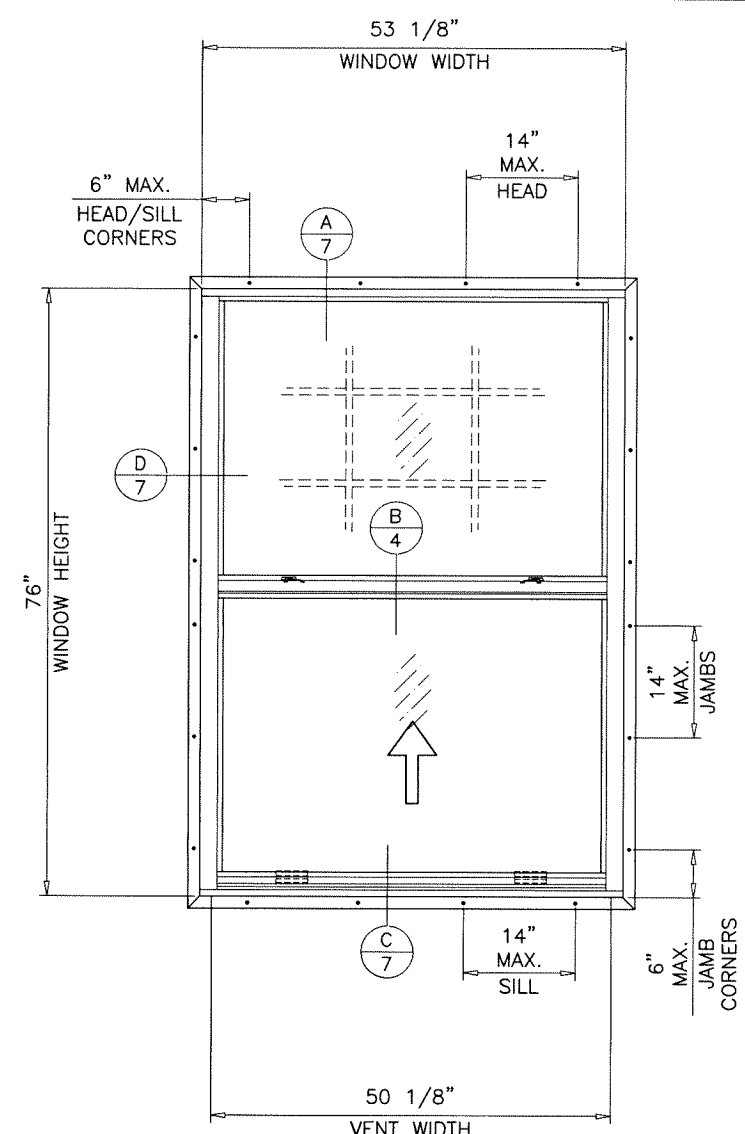




TYPICAL ELEVATION
EQUAL LITES
FLANGE FRAMES



TYPICAL ELEVATION
EQUAL LITES
FLANGE FRAMES WITH FLUSH ADAPTER



TYPICAL ELEVATION
EQUAL LITES
FLANGE FRAMES WITH FIN ADAPTER

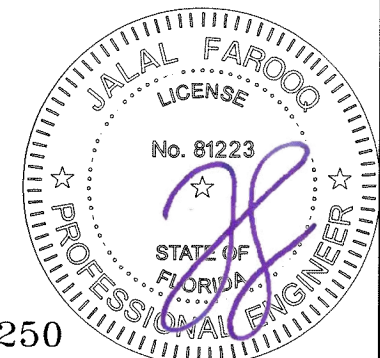
EQUAL LITE WINDOWS
MAXIMUM DESIGN LOAD RATING = + 60.0 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER) - 80.0 PSF
STD. FRAME SILL

EQUAL LITE WINDOWS
MAXIMUM DESIGN LOAD RATING = + 80.0 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER) - 80.0 PSF
HI-RISE FRAME SILL

FOR ALTERNATE SIZE UNITS MAX. FRAME AREA OF WINDOW
NOT TO EXCEED TESTED FRAME AREA OF 28.04 SQ. FT. OR 53-1/8" WIDTH.

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

Sealed: 7/9/2026



FL #22250

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)

ES-EL100 ALUM SINGLE HUNG WDW. (N.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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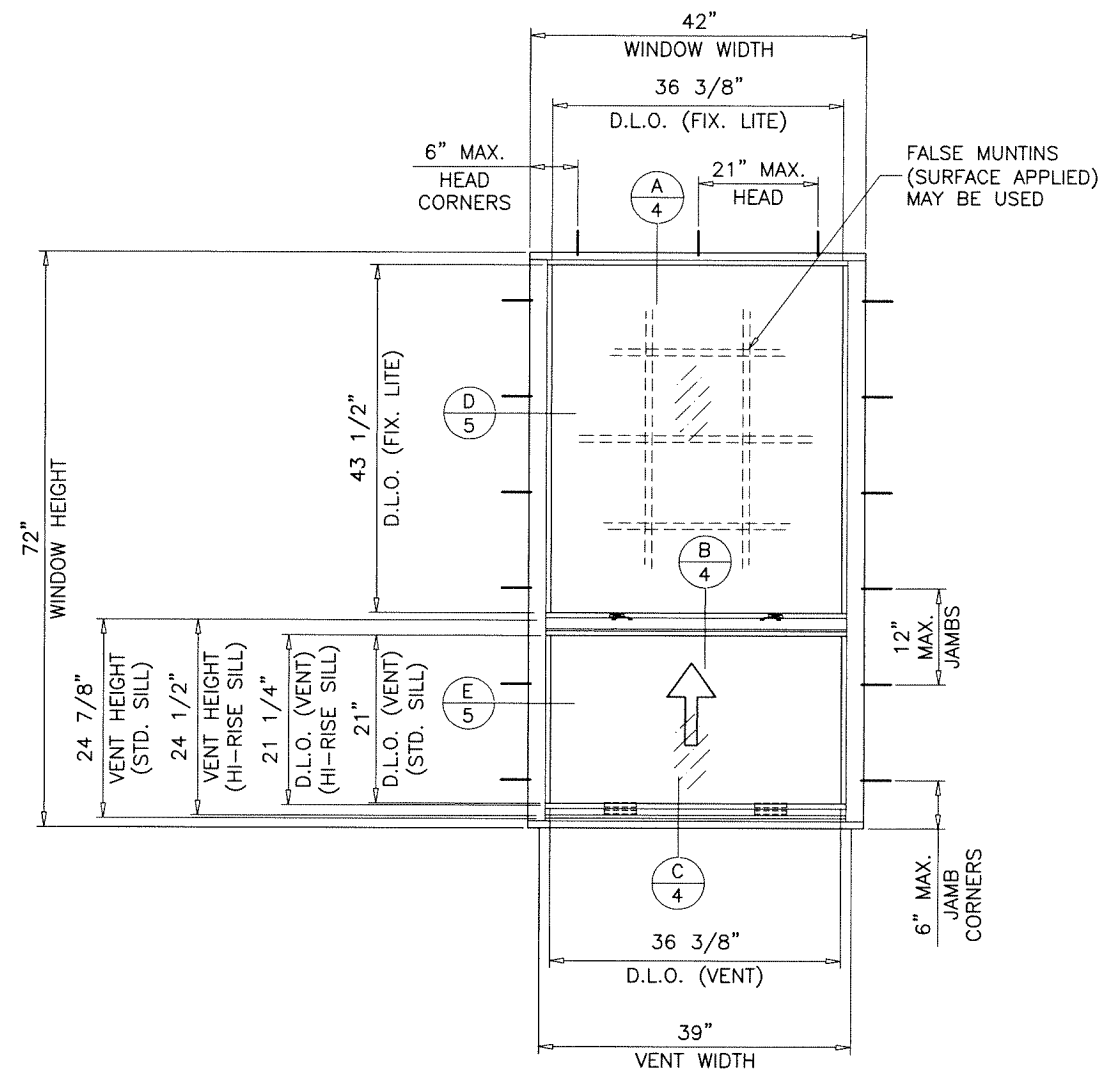
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chk. by:

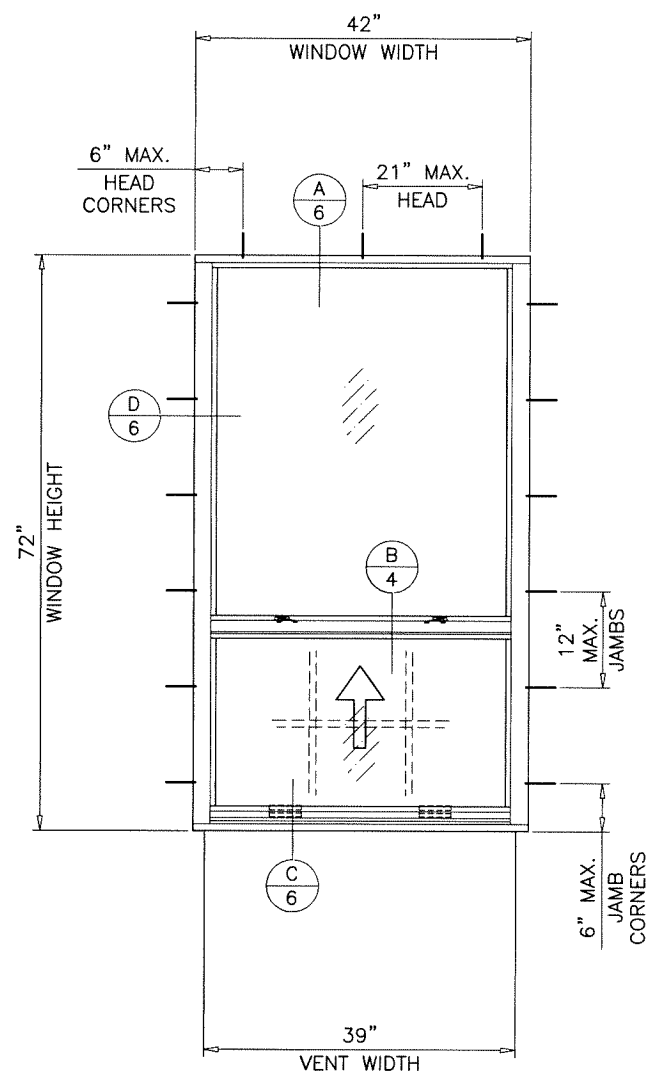
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20-62F

sheet 2 of 10

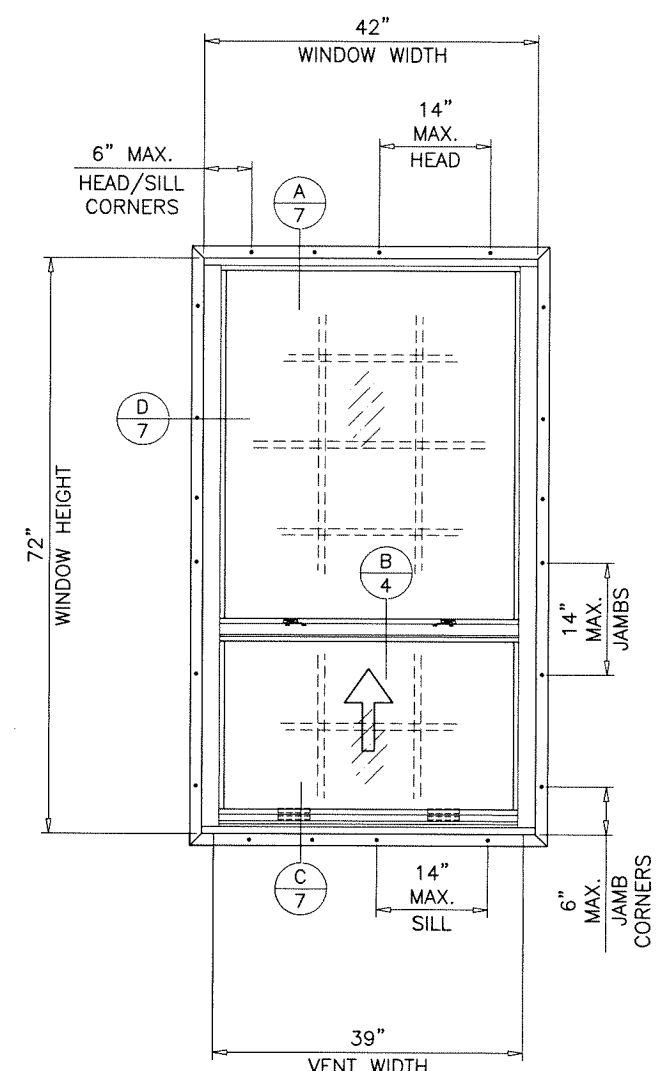
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TYPICAL ELEVATION
UNEQUAL LITES (ORIEL TYPE)
FLANGE FRAMES



TYPICAL ELEVATION
UNEQUAL LITES (ORIEL TYPE)
FLANGE FRAMES WITH FLUSH ADAPTER

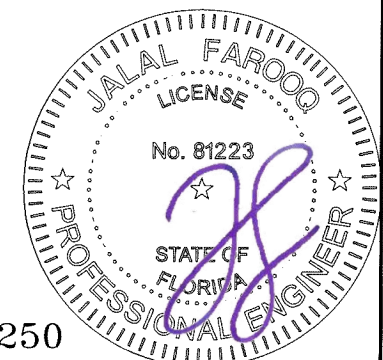


TYPICAL ELEVATION
UNEQUAL LITES (ORIEL TYPE)
FLANGE FRAMES WITH FIN ADAPTER

UNEQUAL LITE (ORIEL TYPE) WINDOWS DESIGN LOAD CAPACITY - PSF					
FRAME DIMS.		STANDARD FRAME SILL		HI-RISE FRAME SILL	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	60"	60.0	80.0	80.0	80.0
30"		60.0	80.0	80.0	80.0
36"		60.0	80.0	80.0	80.0
42"		60.0	80.0	80.0	80.0
48"		60.0	80.0	80.0	80.0
53-1/8"		60.0	80.0	80.0	80.0
24"	64"	60.0	80.0	80.0	80.0
30"		60.0	80.0	80.0	80.0
36"		60.0	80.0	80.0	80.0
42"		60.0	80.0	80.0	80.0
48"		60.0	80.0	80.0	80.0
24"	72"	60.0	80.0	80.0	80.0
30"		60.0	80.0	80.0	80.0
36"		60.0	80.0	80.0	80.0
42"		60.0	80.0	80.0	80.0
24"	76"	60.0	80.0	80.0	80.0
30"		60.0	80.0	80.0	80.0
36"		60.0	80.0	80.0	80.0

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

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FL #22250

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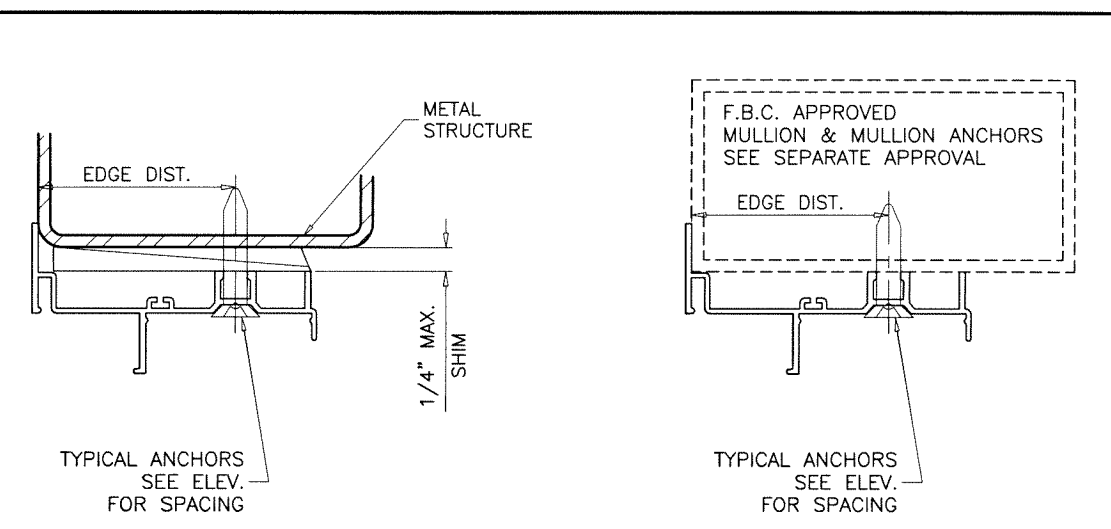
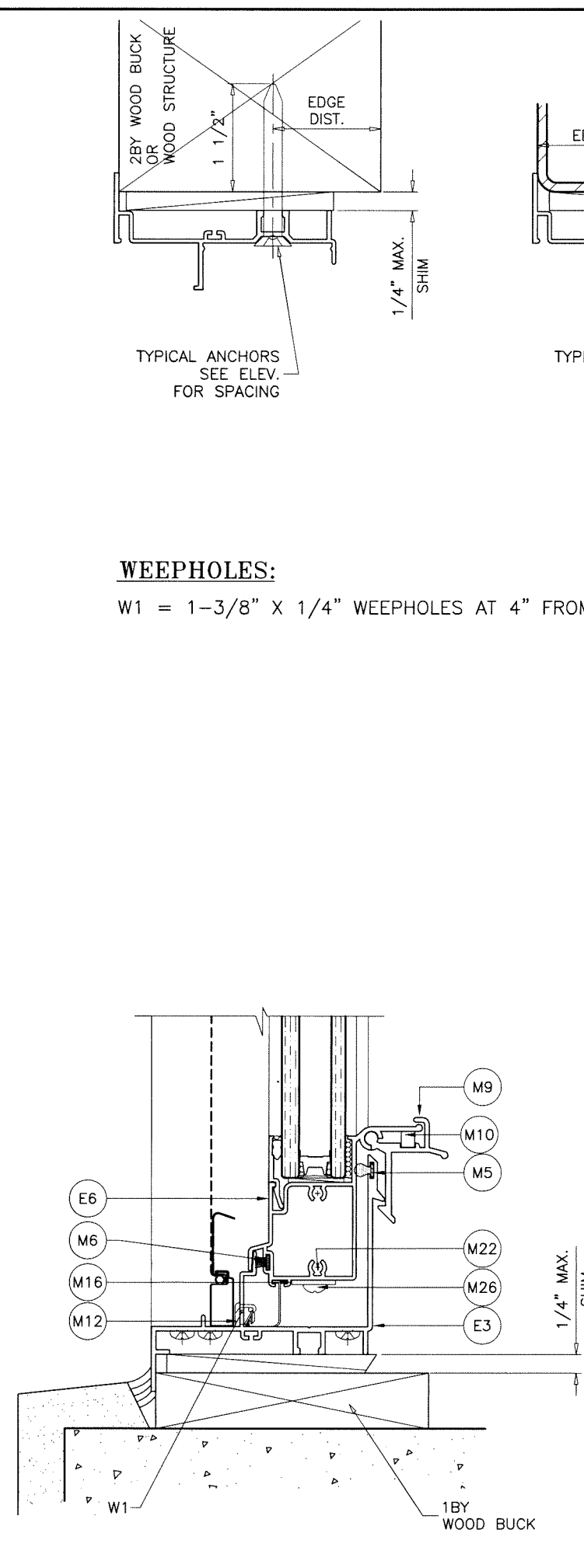
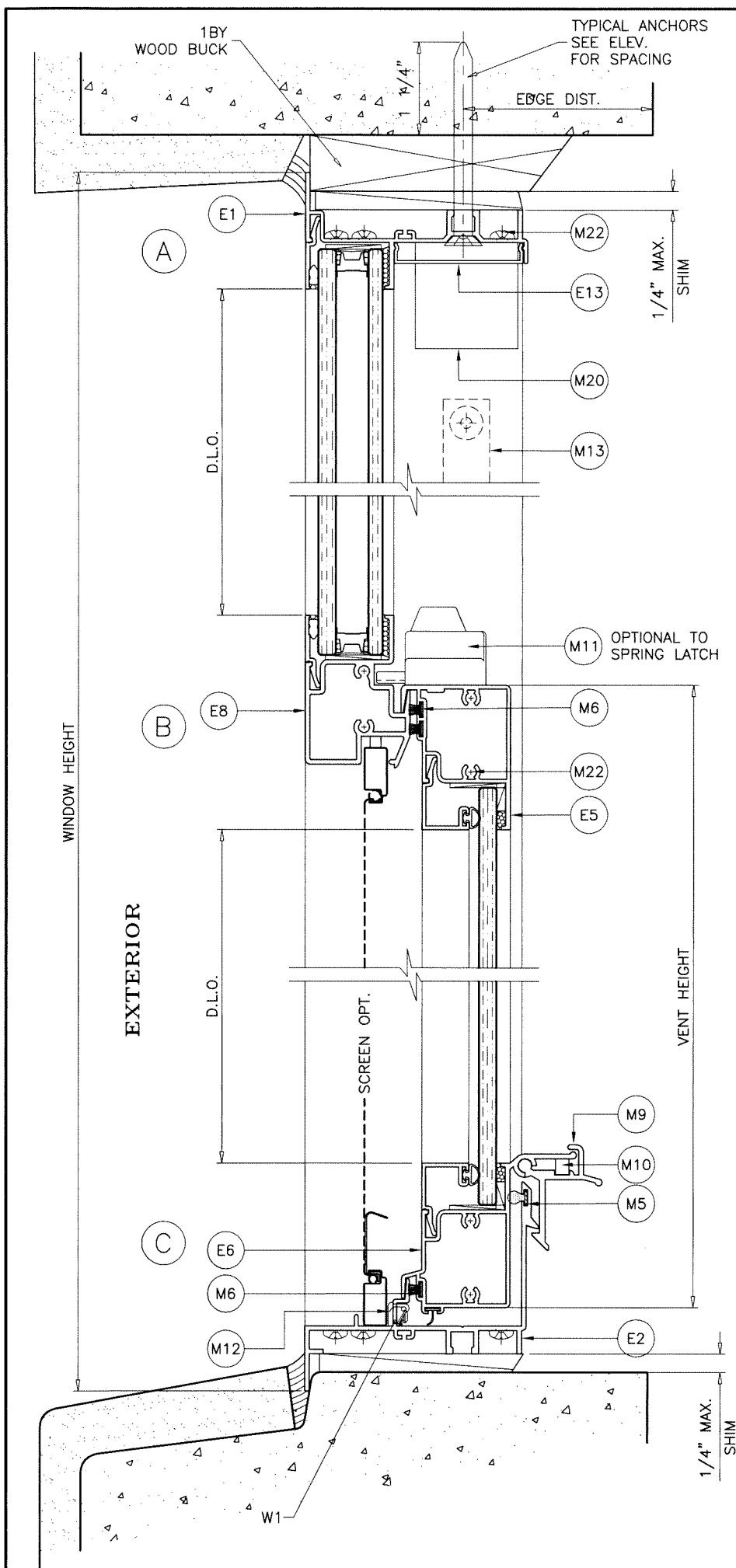
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no. date by description

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sheet 3 of 10

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

WEEPHOLES:

W1 = 1-3/8" X 1/4" WEEPHOLES AT 4" FROM EACH END

TYPICAL ANCHORS:

SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/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
 OR
 INTO METAL STRUCTURES (HEAD/JAMBS)
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 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 MASONRY = 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.

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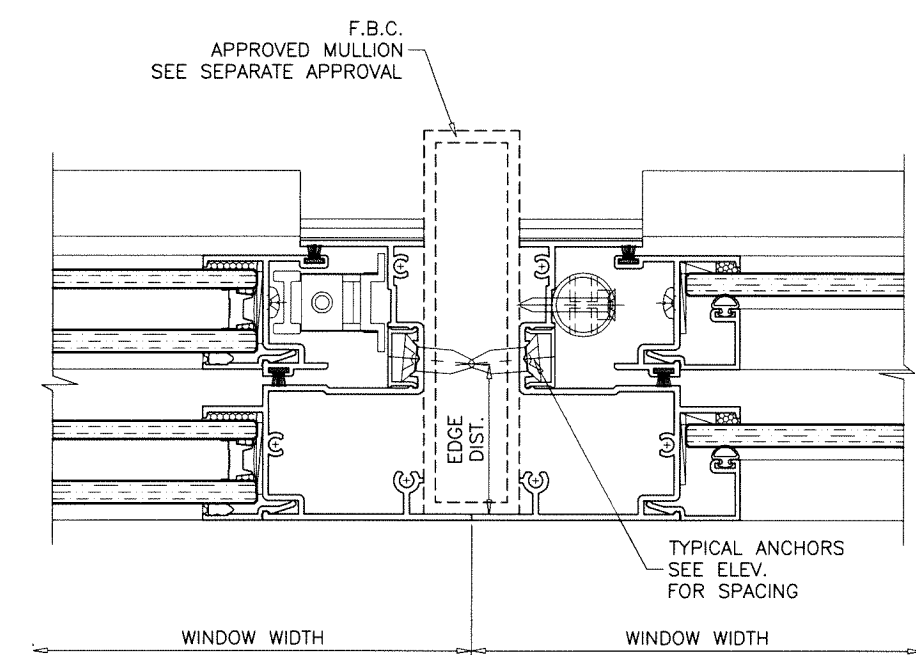
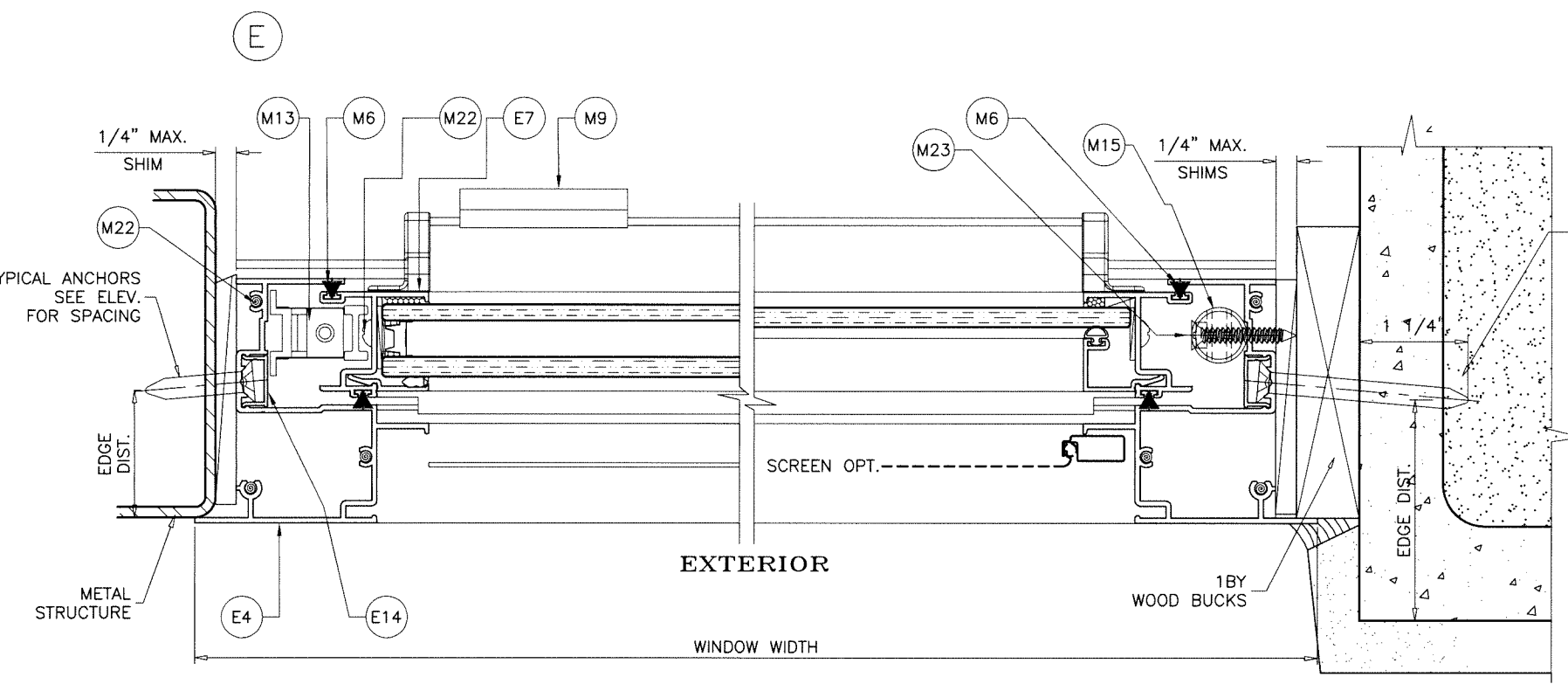
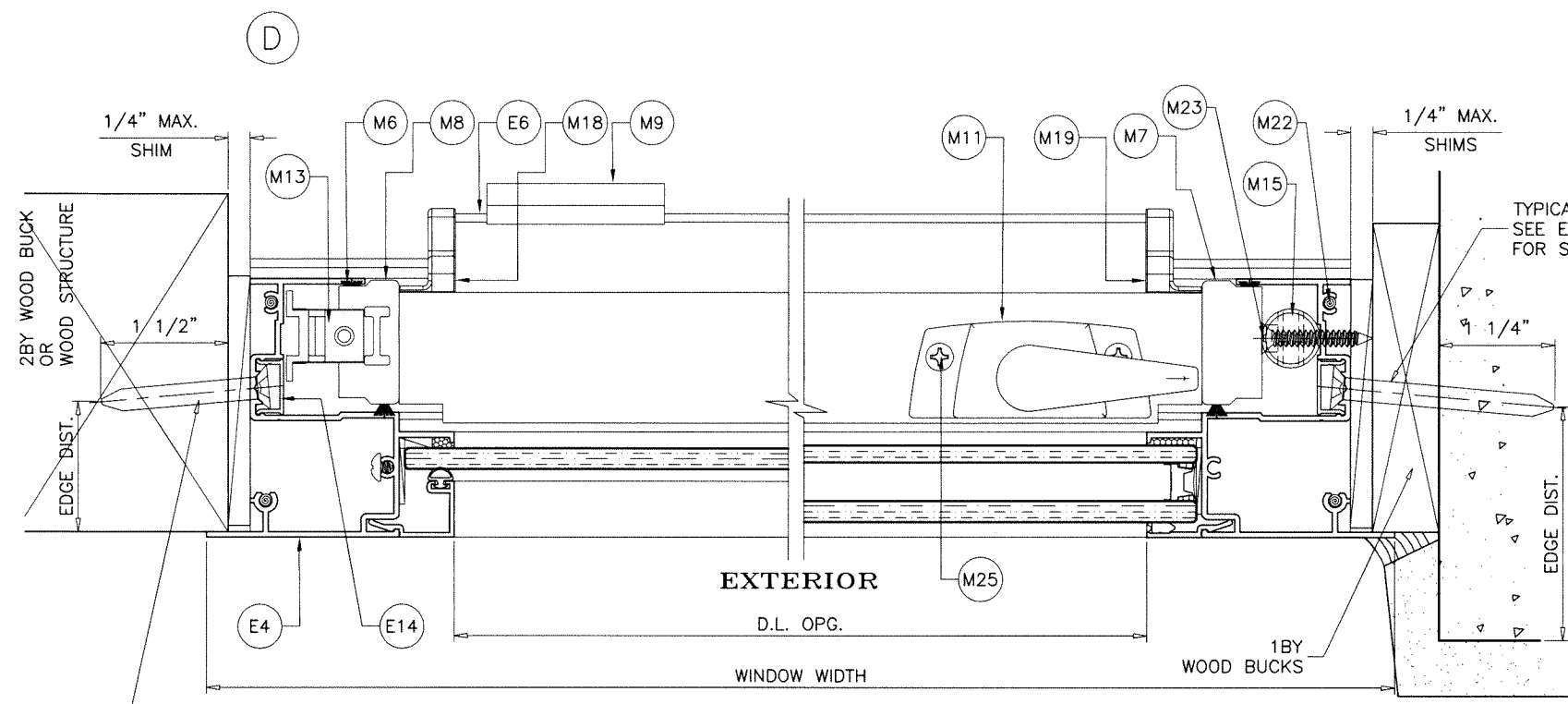
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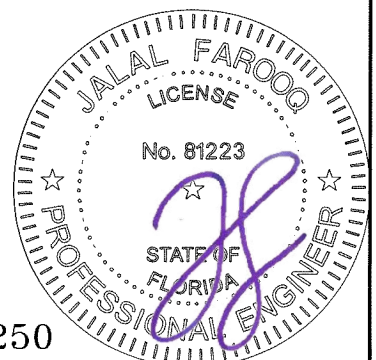
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 sheet 4 of 10



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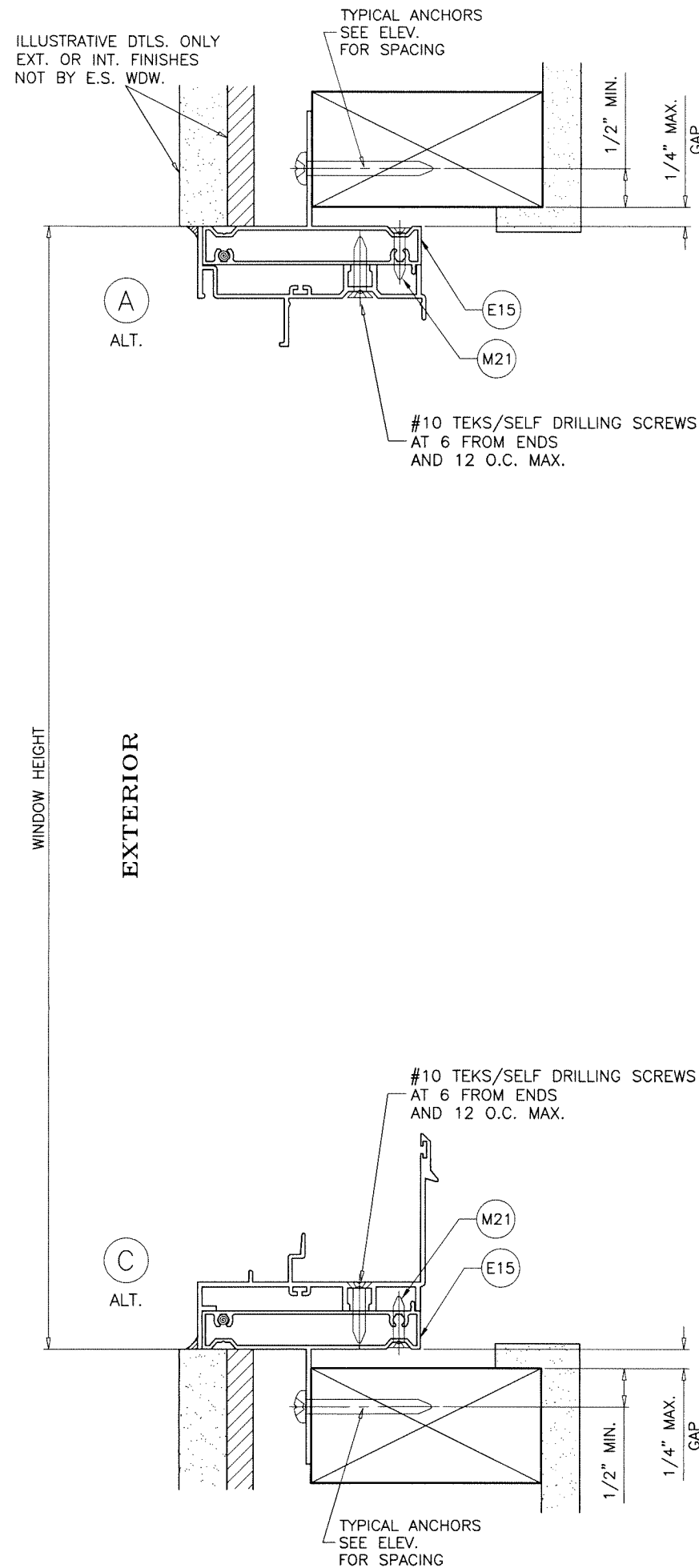
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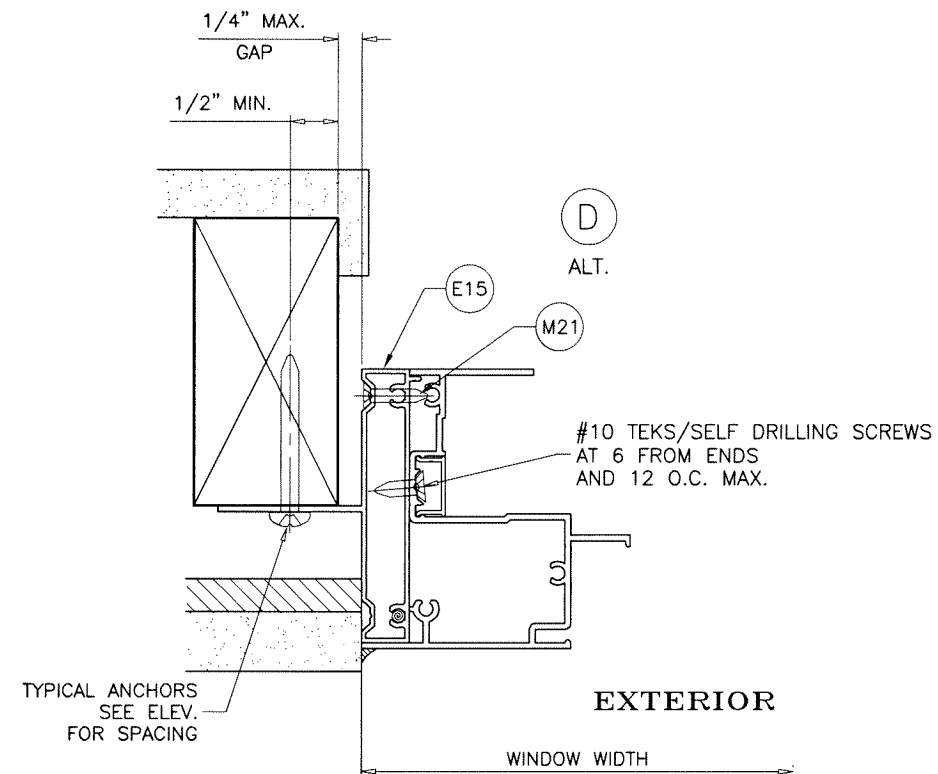
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TYPICAL ANCHORS: SEE ELEV. FOR SPACING

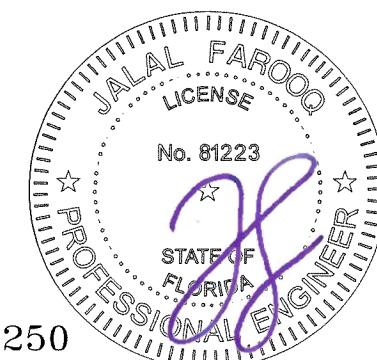
#14 WOOD SCREWS (GRADE 2 CRS)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD



INSTALLATION DETAILS WITH FIN FRAME ADAPTER
SEE SHEETS 4 & 5 FOR WINDOW DETAILS

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FL #22250



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sheet 7 of 10

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-EL101A	1	FRAME HEAD	6063-T6	-
E2	ES-EL102	1	FRAME SILL (STANDARD)	6063-T6	-
E3	ES-EL103	1	FRAME SILL (HI-RISE)	6063-T6	-
E4	ES-EL104	2	FRAME JAMB	6063-T6	-
E5	ES-EL105	1	VENT TOP RAIL	6063-T6	-
E6	ES-EL106	1	VENT BOTTOM RAIL	6063-T6	-
E7	ES-EL203	2	VENT SIDE RAIL	6063-T6	-
E8	ES-EL108B	1	FIXED MTG. RAIL	6063-T6	-
E9	ES-EL109	AS RQD.	GLAZING BEAD (MONOLITHIC GLASS)	6063-T6	-
E9A	ES-EL116	AS RQD.	GLAZING BEAD (INSUL. GLASS)	6063-T6	-
E12	ES-EL112	AS REQD.	FLUSH FRAME ADAPTER	6063-T6	-
E13	ES-EL113A	AS REQD.	HEAD SCREW COVER	6063-T6	-
E14	ES-EL114	AS REQD.	JAMB SCREW COVER	6063-T6	-
E15	ES-EL115	AS REQD.	FLUSH FRAME ADAPTER WITH FIN	6063-T6	-
M1	ES-7530-G10B	AS REQD.	GLAZING BEAD BULB	SILICONE	DUROMETER 65±5 SHORE A
M1A	ES-H-340-G05	AS REQD.	EXTERIOR WEDGE GASKET	SILICONE	DUROMETER 65±5 SHORE A
M1B	T-BOND	AS REQD.	GLAZING TAPE (1/8" X 3/8")	FOAM	-
M2	EL100-G01	AS REQD.	VENT BOTTOM GASKET	EPDM	DUROMETER 65±3 SHORE A
M3	ES-9500-801A	2/ LITE	SIDE BLOCK AT 1/4 POINTS	SILICONE	DUROMETER 80±5 SHORE A
M5	Q300T190	AS REQD.	Q-LON2 WEATHER SEAL AT SILL	URETHANE FOAM	-
M6	23211NG	AS REQD.	PILE W'STRIPPING WITH PLASTIC FIN	POLYPROPYLENE	-
M7	ES-EL115	4/ VENT	VENT TOP GUIDE (SPIRAL BALANCE)	CELCON	-
M8	ES-EL116	2/ VENT	VENT TOP GUIDE (BLOCK & TACKLE BALANCE)	CELCON	-
M9	SK08-4010	2/ VENT	SPRING LOADED LATCH	6063-T6	ALTERNATE TO SWEEP LATCH
M10	LS-4050	2/ LATCH	LATCH SPRING	ST. STEEL	-
M11	SL302-XX	2/ VENT	SWEEP LATCH	DIE CAST ALUM	-
M12	FAS255129	2	WEEP HOLE COVER	NYLON	-
M13	SERIES 86	2/VENT	BLOCK & TACKLE BALANCE	CRS	-
M14	15P19	2/VENT	BALANCE TAKE OUT CLIP	ST. STEEL	-
M15	38-51	2/VENT	SPIRAL BALANCE CLASS 5	CRS	-
M16	21803	-	NON TILT	ST. STEEL	-
M17	ES-004	2	VENT GUIDE	NYLON	-
M18	ES-1000-P1L	-	LEFT NOTCH CAP	NYLON	-
M19	ES-1000-P1R	-	RIGHT NOTCH CAP	NYLON	-
M20	PENDIENTE	-	SASH STOP	-	-
M21	#8 X 1"	-	FLUSH FRAME ADAPTER ASSEMBLY FASTENERS	ST. STEEL	FH SMS
M22	#8 X 1"	-	FRAME AND VENT ASSEMBLY FASTENERS	ST. STEEL	PH SMS
M23	#10 X 1-1/4"	-	SPIRAL BALANCE ASSEMBLY FASTENERS	ST. STEEL	FH SMS
M24	#6 X 1/2"	-	VENT GUIDE ASSEMBLY FASTENERS	ST. STEEL	FH SMS
M25	#8 X 3/4"	-	SWEEP LATCH FASTENERS	ST. STEEL	FH SMS
M26	#8 X 1/2"	-	NON TILT FASTENERS	ST. STEEL	PH SMS

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FL #22250

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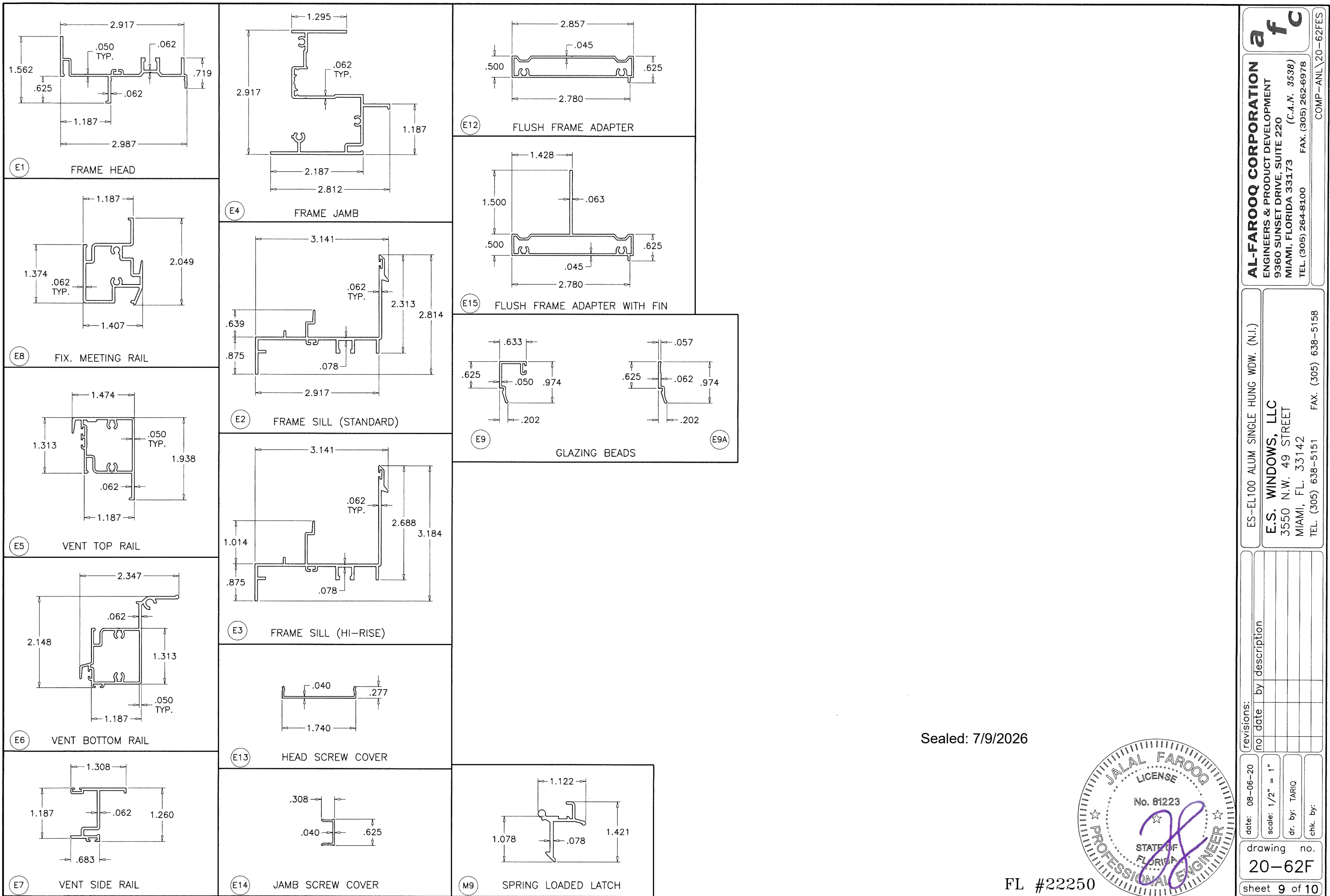
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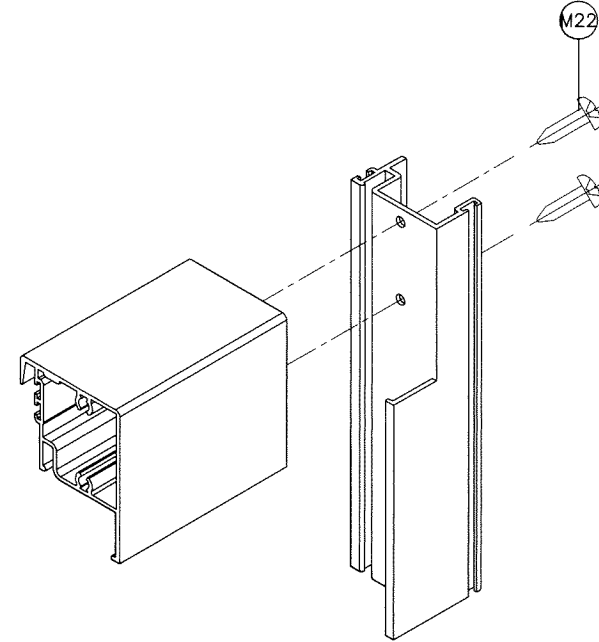
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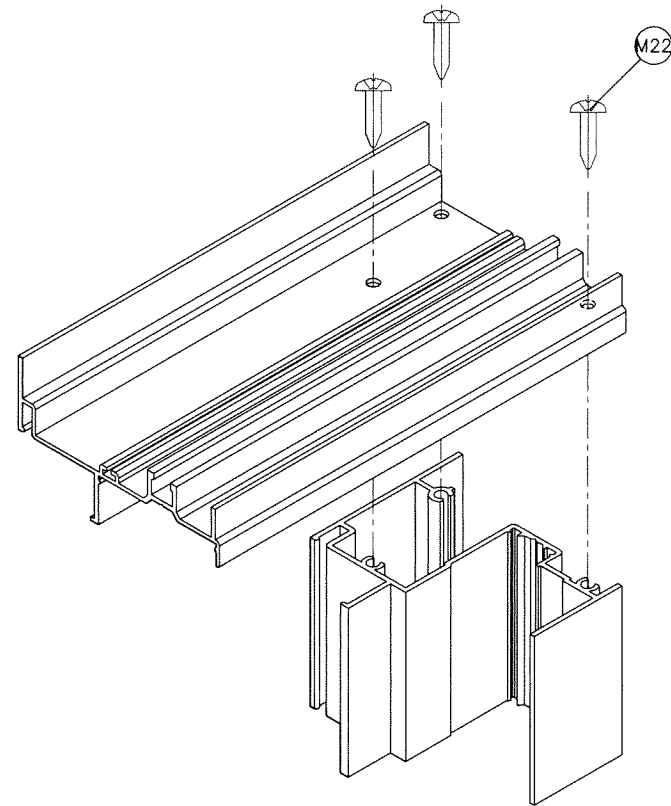
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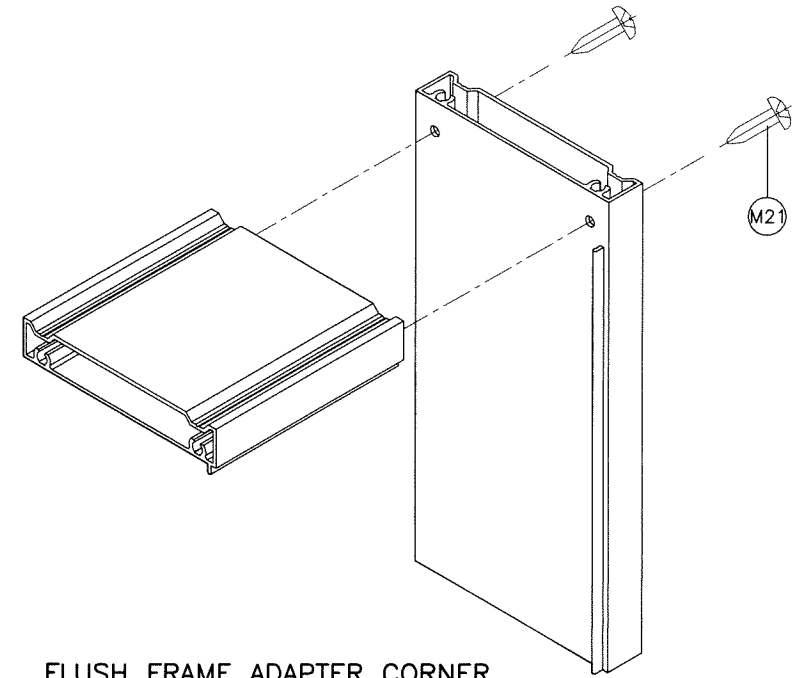
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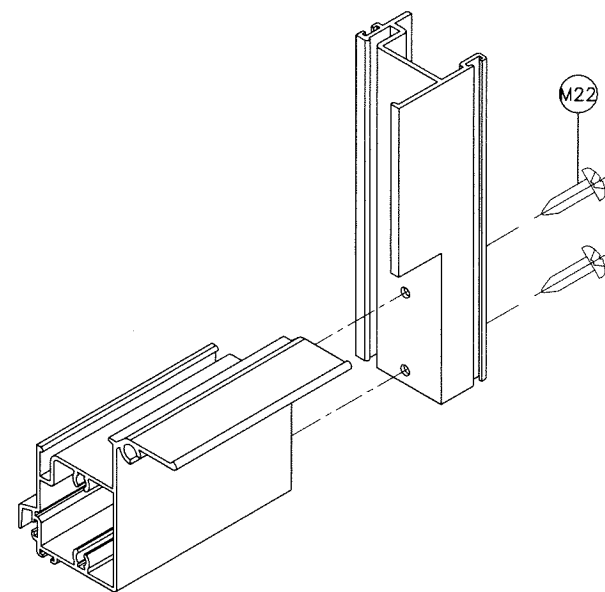
VENT TOP CORNER



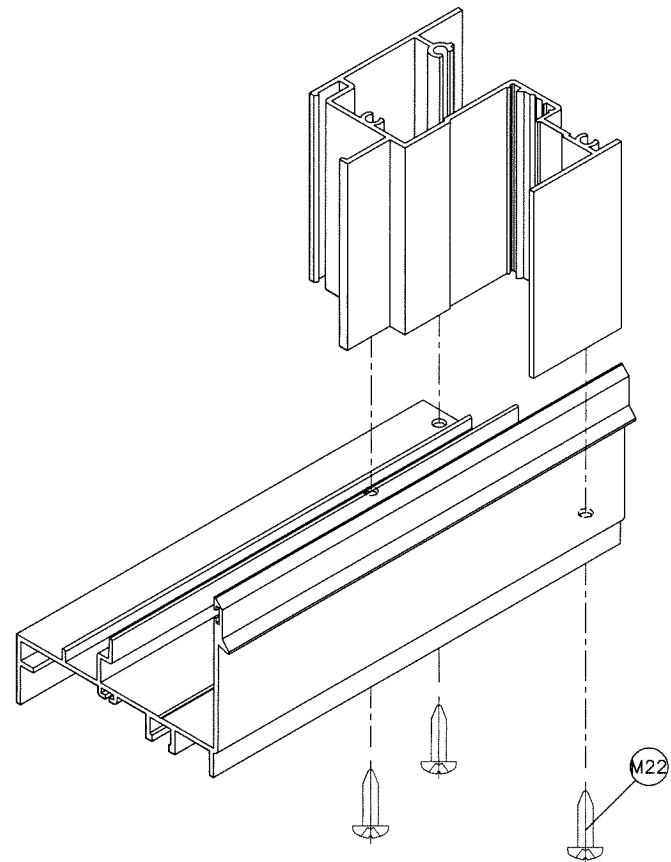
FRAME TOP CORNER



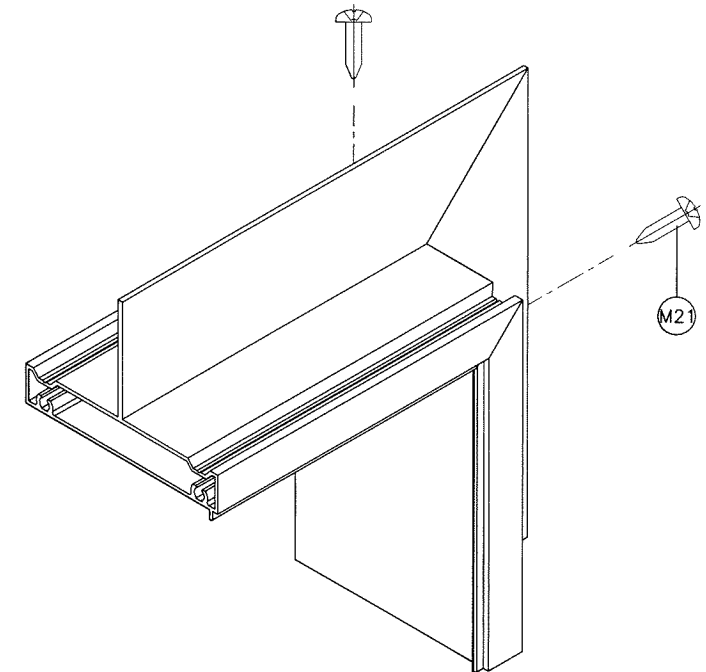
FLUSH FRAME ADAPTER CORNER



VENT BOTTOM CORNER

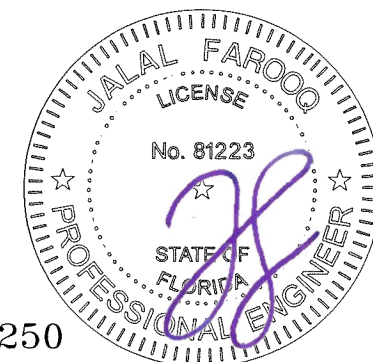


FRAME BOTTOM CORNER



FIN FRAME ADAPTER CORNER

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