

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

SERIES 1500
ALUMINUM OUTSWING/INSWING PIVOT DOOR

APPROVAL APPLIES TO SINGLE (X) LEAF DOORS WITHOUT TRANSOM
OR SINGLE (X) LEAF DOORS WITH TRANSOM SEE SHEETS 2.
ALSO SINGLE(O) SIDELITE WITHOUT TRANSOM OR
SINGLE(O) SIDELITE WITH TRANSOM SEE SHEET 3.
ALSO SIDE BY SIDE COMBINATION OF DOOR AND SIDELITE USING
'H' MULLION IN BETWEEN.

DOORS NOT APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION
RESISTANCE IS REQUIRED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 2017 (6TH 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.

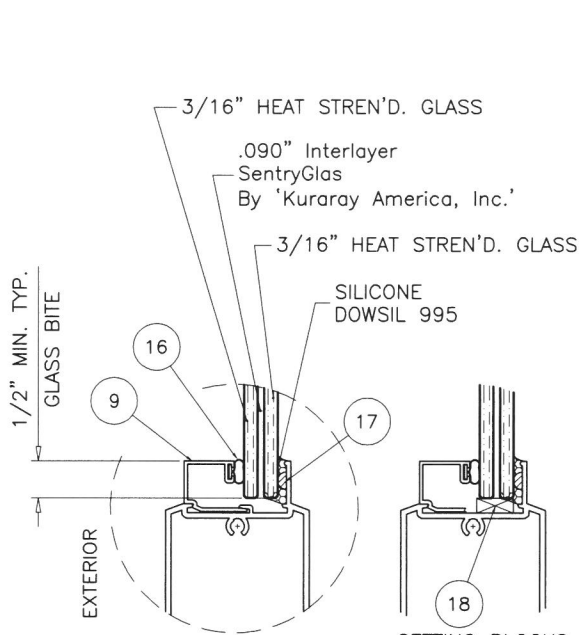
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2017 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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.

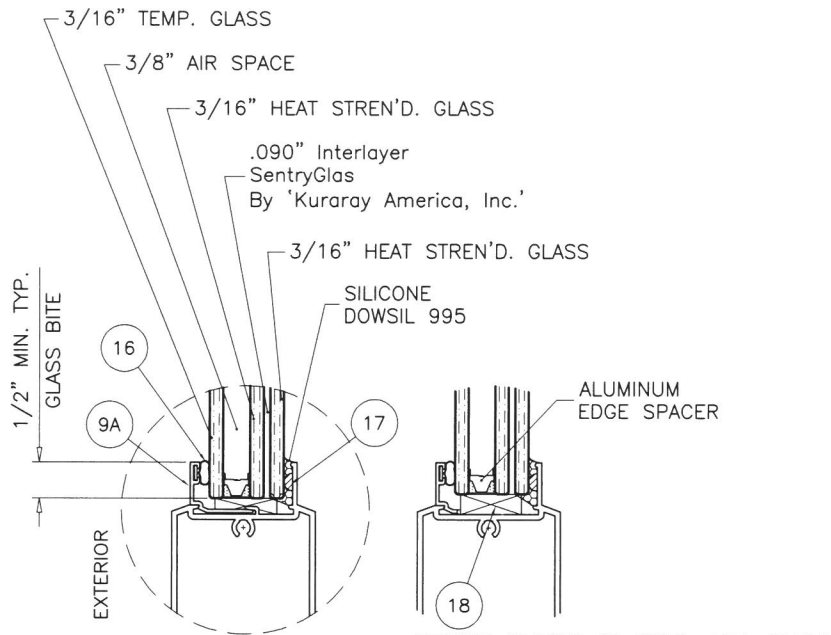
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'
FOR EQUIVALENT LOADS IN 'LOAD AND RESISTANCE FACTOR DESIGN (LRFD)'
MULTIPLY 'ASD' LOADS BY 1.67 (ASD LOAD X 1.67 = LRFD LOAD)

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.



GLASS TYPE 'A'

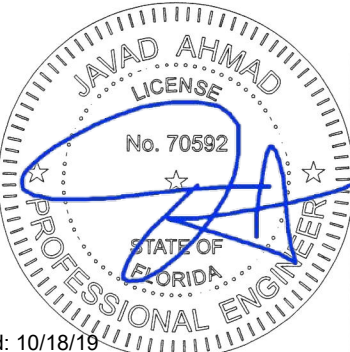


GLASS TYPE 'Ai'

GLAZING OPTIONS

- 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.

Sealed: 10/18/19



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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\19-109F-ECO

SERIES 1500 ALUM OUTSWING/INSWING PIVOT DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:		no	date	by	description
no	date				

date: 10-18-19

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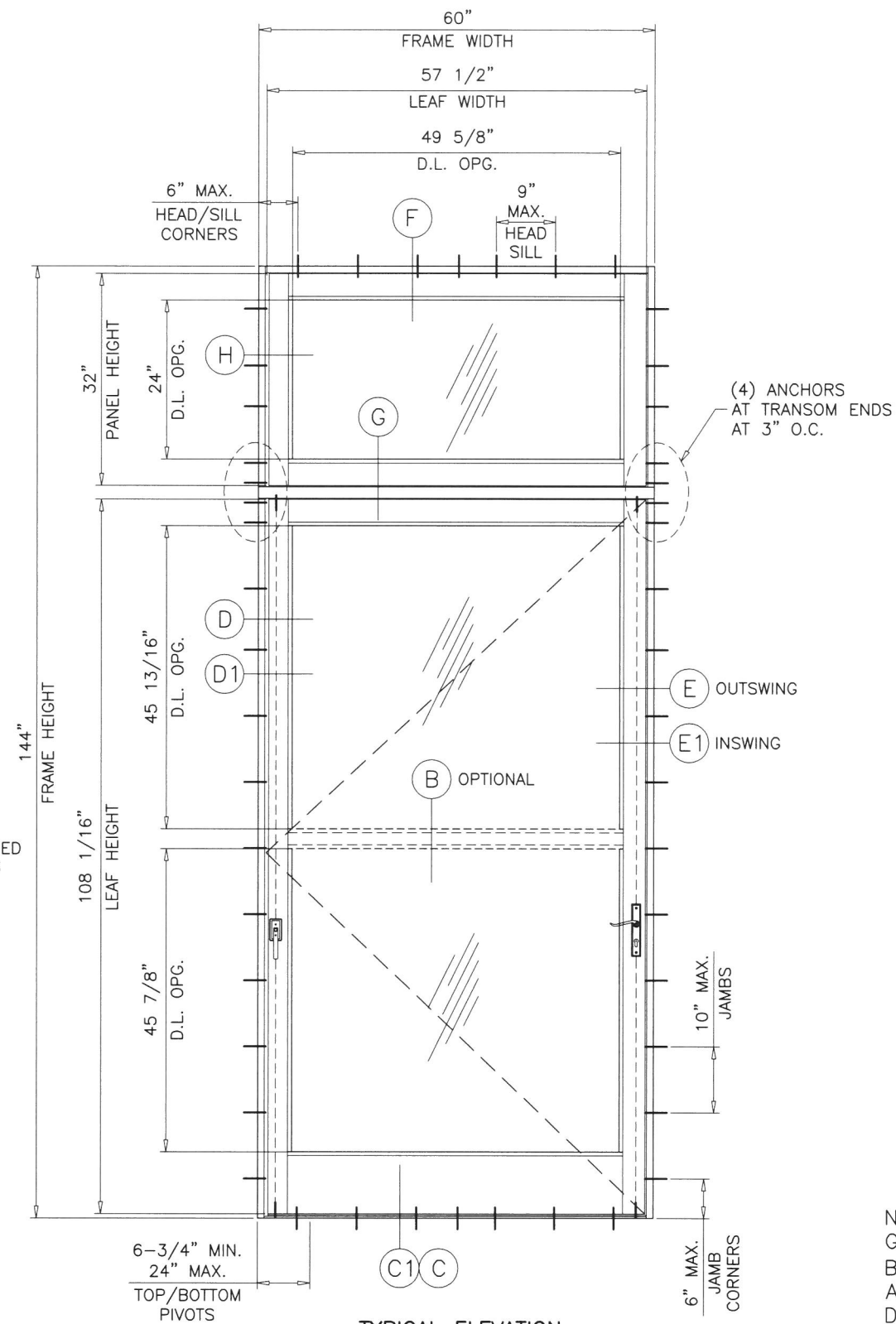
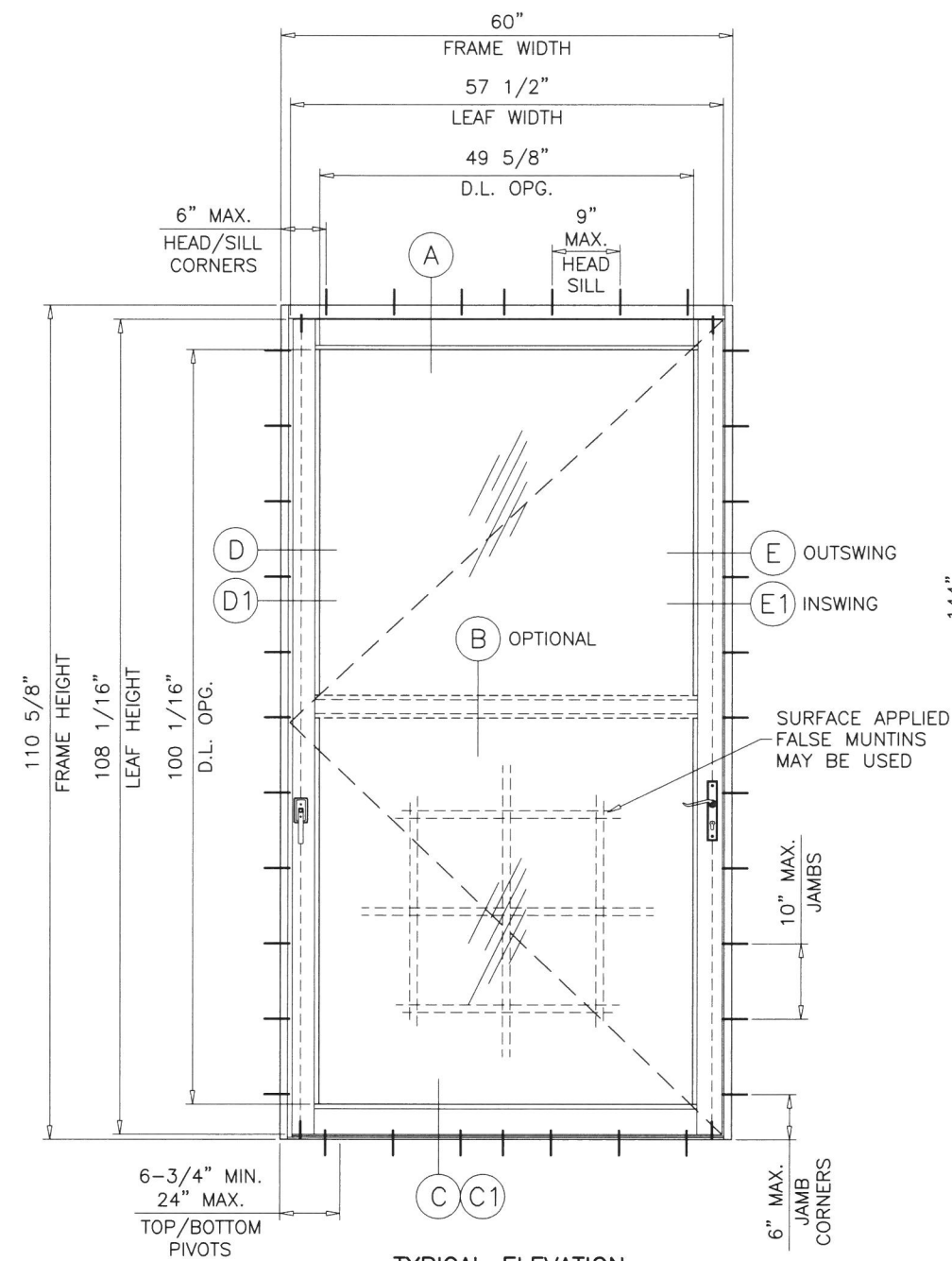
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drawing no.

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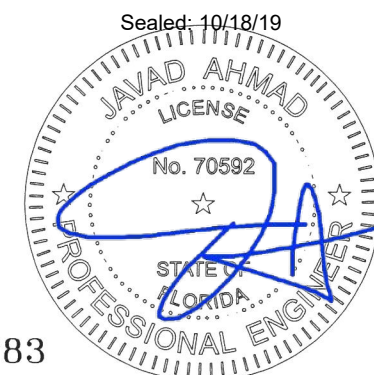
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

MAXIMUM DESIGN LOAD RATING = + 60.0 PSF
(FOR MAX. SIZE SHOWN ABOVE OR SMALLER) - 60.0 PSF
AS PERMITTED BY FBC REQUIREMENTS

NOTE:
APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY AHJ.

GLASS D.L.O. FORMULAE:
D.L.O. WIDTH = FRAME WIDTH - 10.375"
D.L.O. HEIGHT = FRAME HEIGHT - 10.563"

FL #30783



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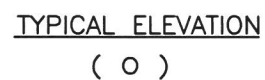
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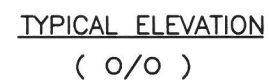
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sheet 2 of 14



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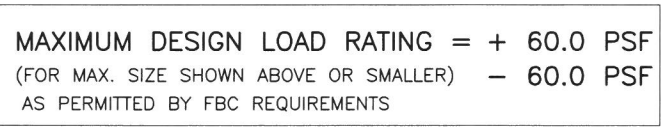
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 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100

(C.A.N. 3538)
 FAX. (305) 262-6978

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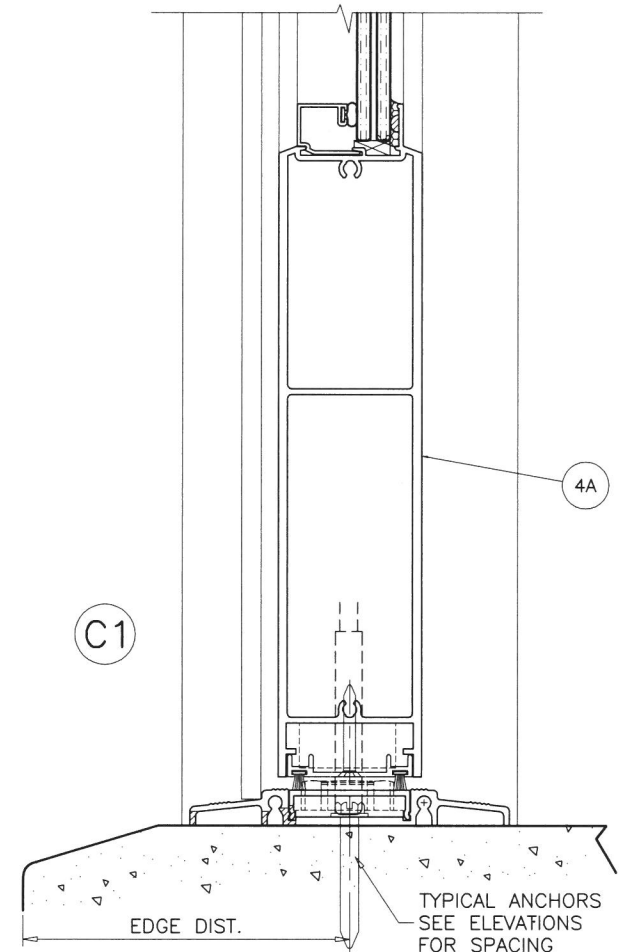
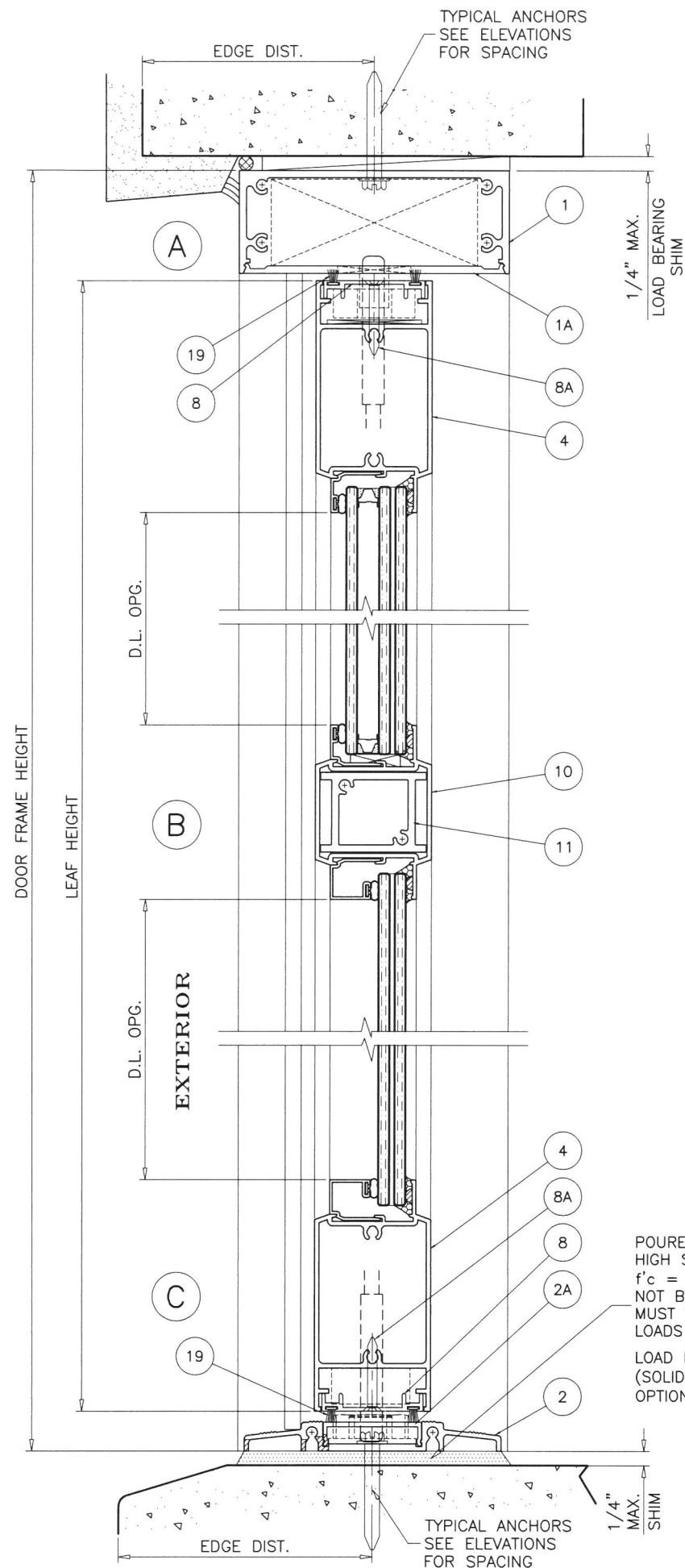
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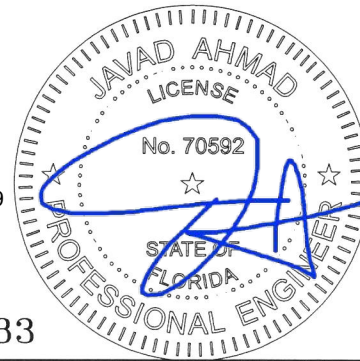
sheet 4 of 14

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DOOR DETAILS

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sheet 5 of 14

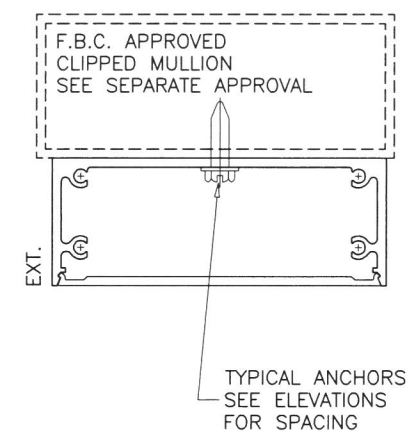
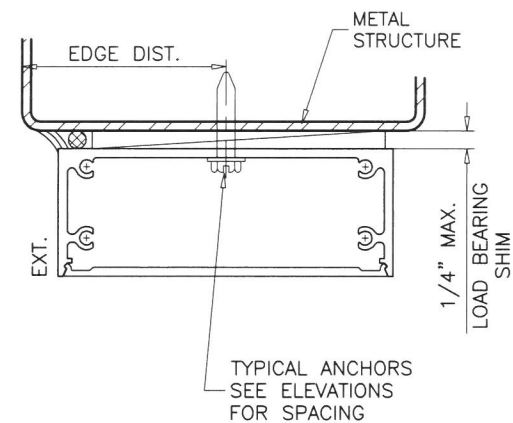
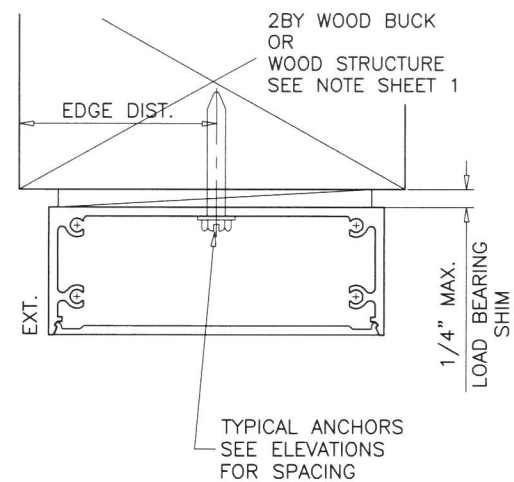
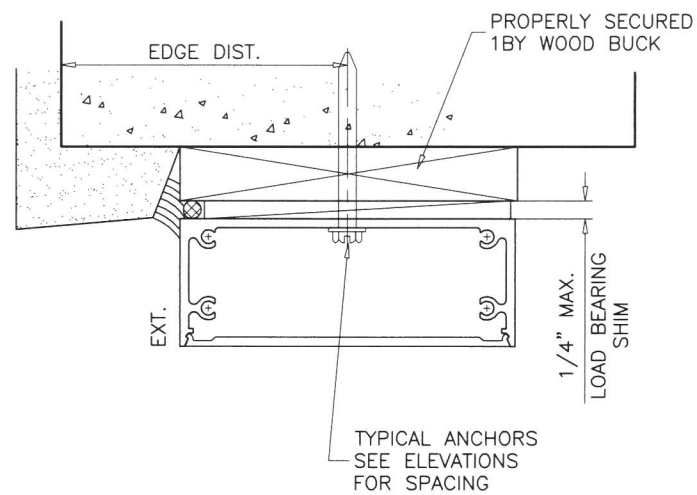
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WOOD BUCKS AND METAL STRUCTURE NOT BY ECO WINDOWS
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' ($F_u=177$ KSI, $F_y=155$ 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)

#14 SMS OR SELF-DRILLING SCREWS (GRADE 2 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.

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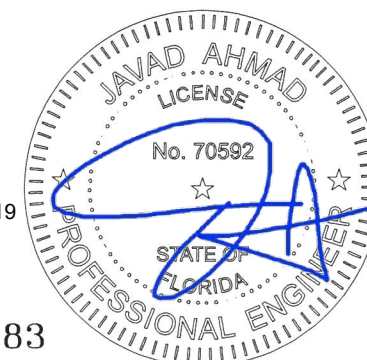
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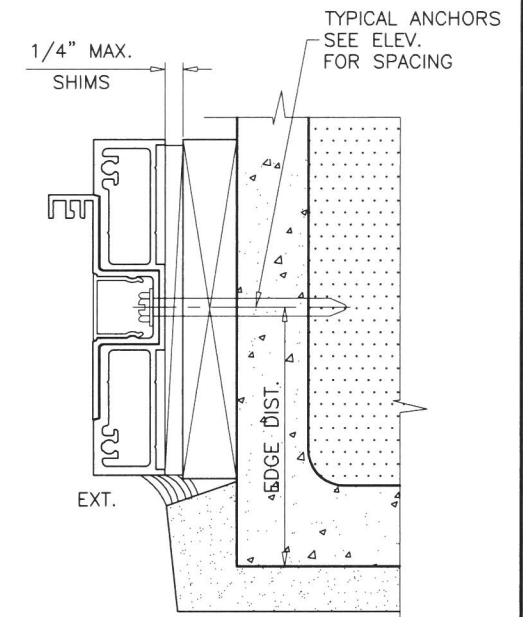
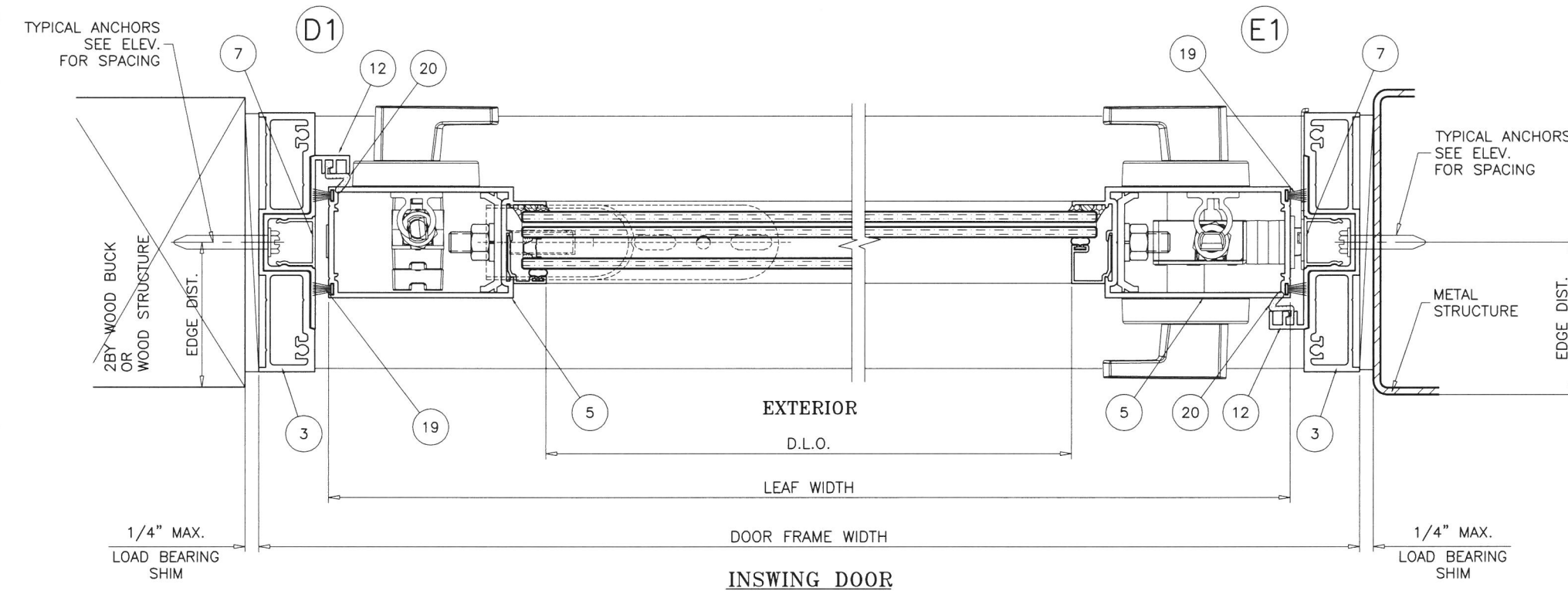
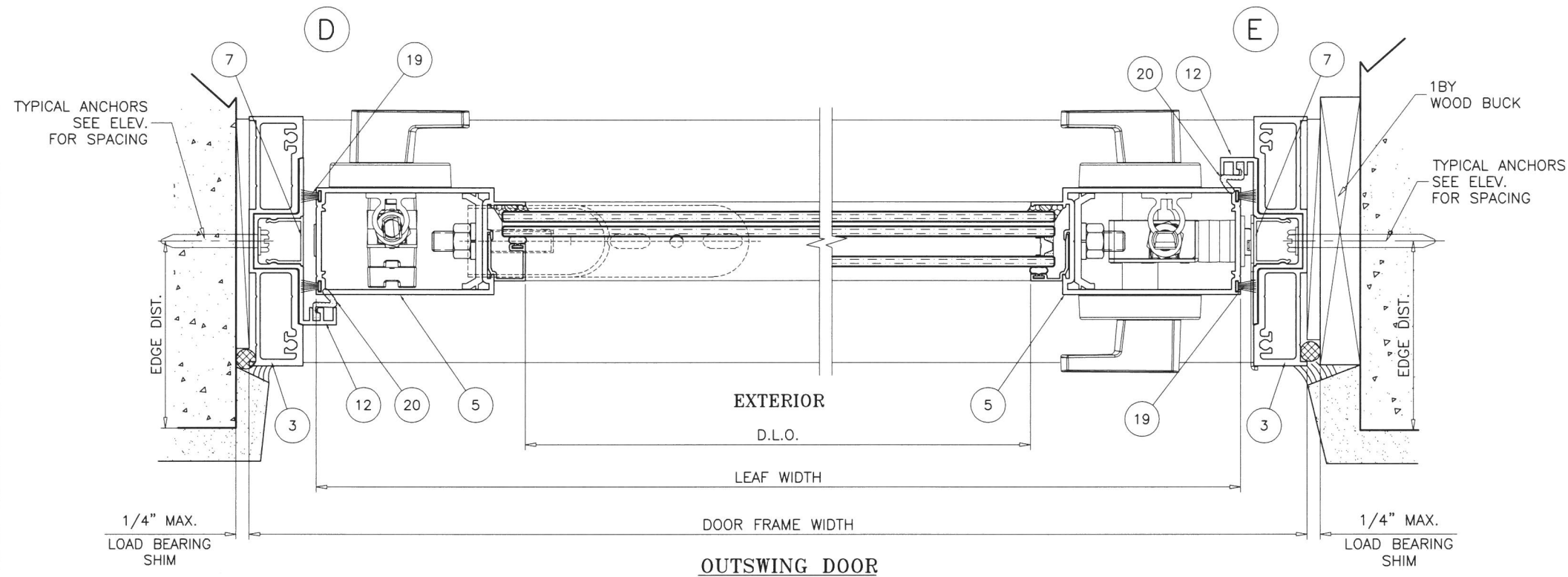
DOOR DETAILS



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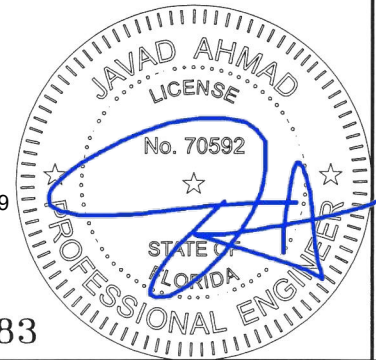
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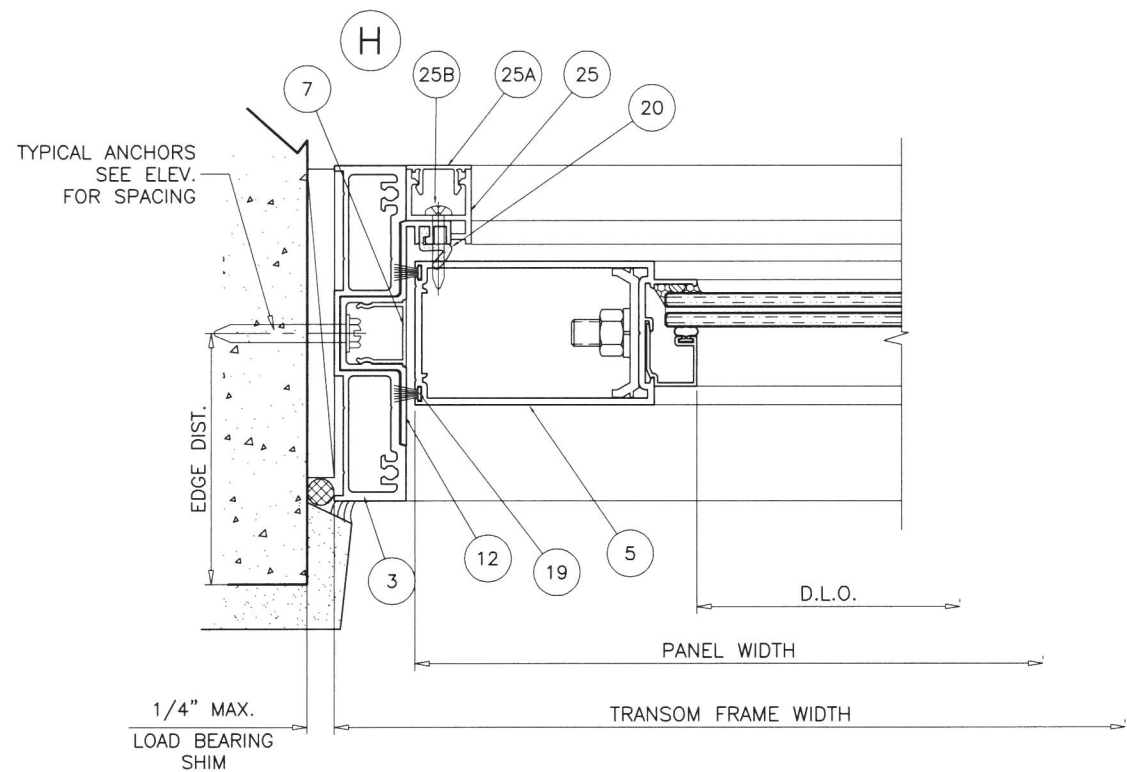
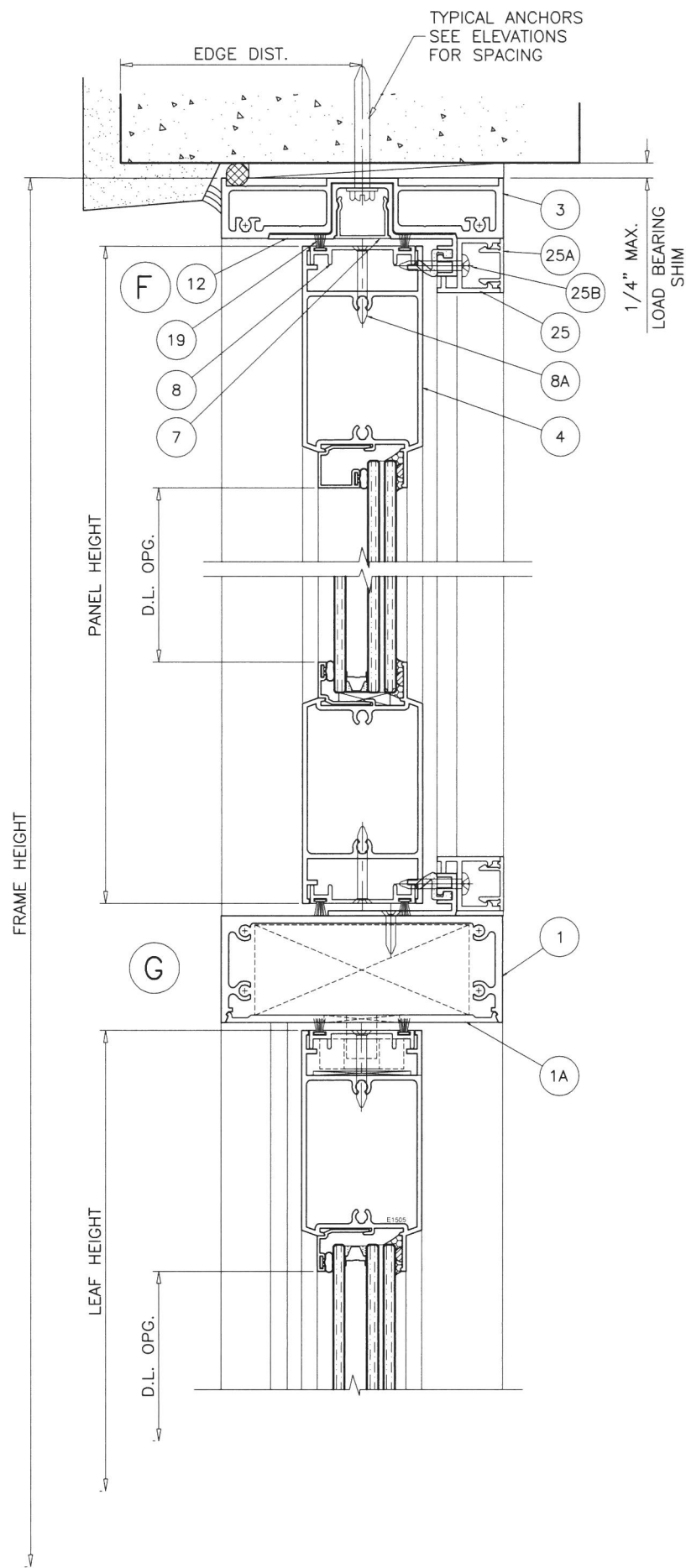
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TRANSOMS CAN BE INSTALLED IN ALL SUBSTRATES SHOWN ON SHEETS 5 THRU 7.

TRANSOM DETAILS

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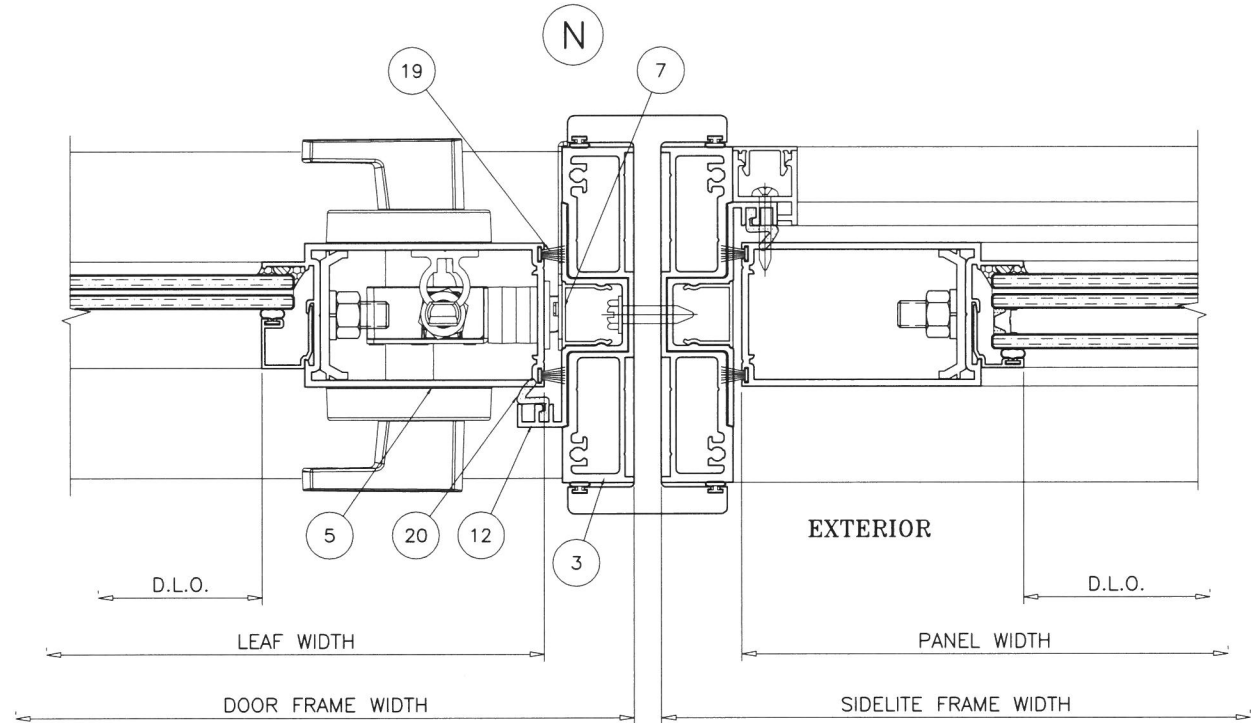
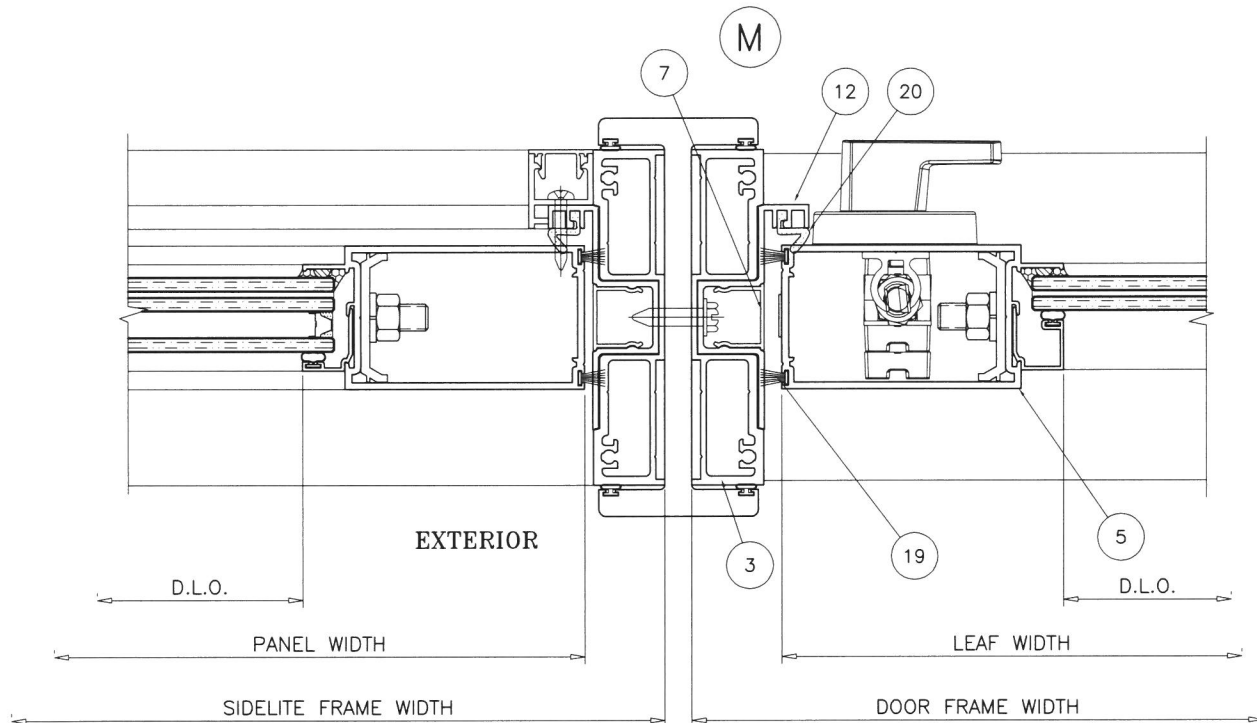
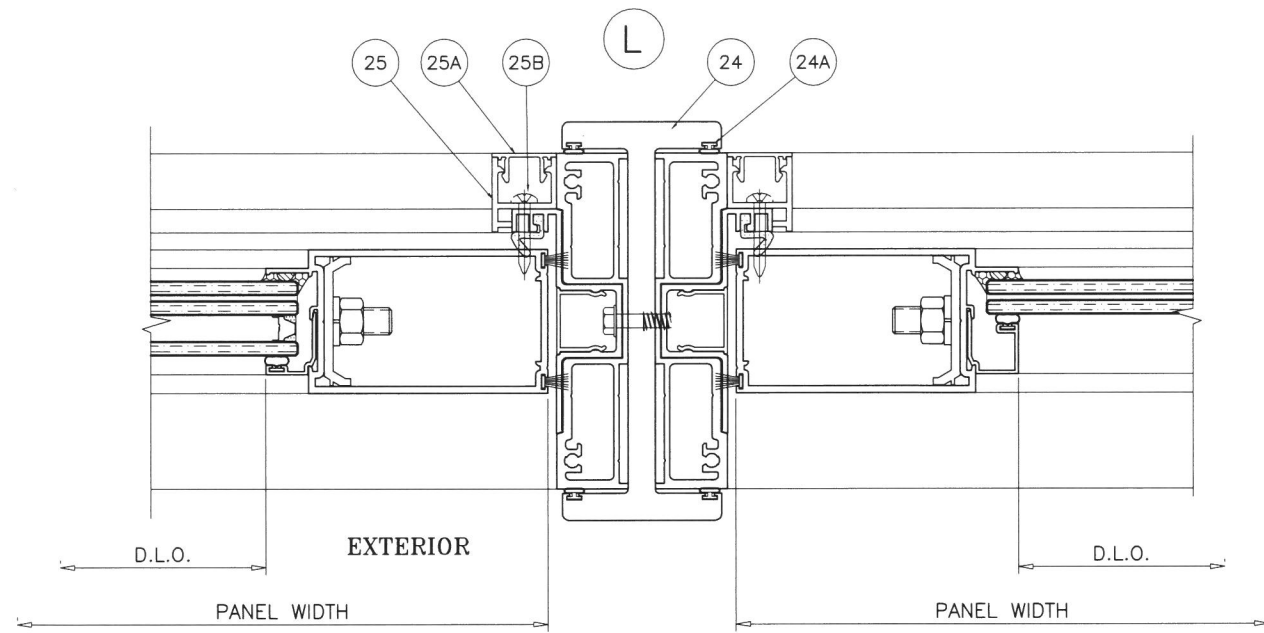
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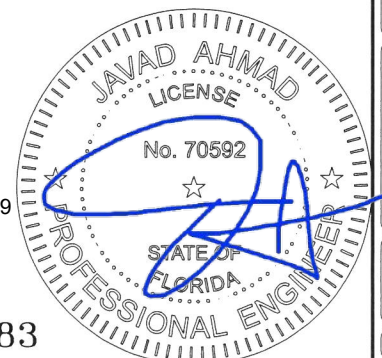
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SIDELITE/DOOR MULLION DETAILS

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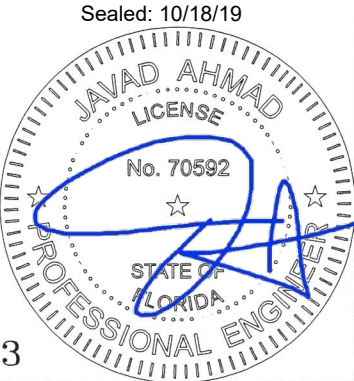


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sheet 10 of 14			

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E1501	1	DOOR HEADER	6063-T6	—
1A	E1502	1	DOOR HEADER COVER	6063-T6	—
2	E1508	1	THRESHOLD	6063-T6	—
2A	E1509	1	THRESHOLD COVER	6063-T6	—
3	E1510	2	SIDELITE/TRANSOM FRAME	6063-T6	—
4	E1505	2/ PANEL	LEAF TOP & BOTTOM RAIL	6063-T6	—
4A	E1504	1	HI-PROFILE LEAF BOTTOM RAIL	6063-T6	—
5	E908	2/ PANEL	LEAF STILE	6063-T6	—
6	E613	AS REQD.	LEAF ALIGNMENT CLIP	6063-T6	—
7	E905	AS REQD.	POCKET COVER	6063-T6	—
8	E908	1/ PANEL	TOP & BOTTOM RAIL SWEEP ADAPTER	6063-T6	—
8A	#10 X 1-1/2"	AS REQD.	SWEEP ADAPTER FASTENERS	ST. STEEL	AT 6" FROM EACH END
9	E913	AS REQD.	GLASS STOP (LAM. GLASS)	6063-T5	—
9A	E912	AS REQD.	GLASS STOP (INSUL. LAM. GLASS)	6063-T5	—
10	E1506	AS REQD.	MID RAIL	6063-T6	—
11	E1507	AS REQD.	SHEAR BLOCK	6063-T6	—
11A	??	2/ BLOCK	SHEAR BLOCK FASTENERS	ST. STEEL	—
12	E1511	AS REQD.	FRAME ADAPTER	6063-T6	—
13	E1503	AS REQD.	TRANSOM ADAPTER	6063-T6	—
13A	#10 X3/4"	AS REQD.	ADAPTER FASTENERS	ST. STEEL	AT 6" FROM ENDS & 12" O.C.
14	E909	AS REQD.	LEAF ALIGNMENT CLIP	6063-T6	—
15	E613	AS REQD.	LEAF CLAMP	6063-T6	—
16	E223	AS REQD.	GLAZING GASKET (DUROMETER 70±5)	SANTOPRENE	ULTRAFAB
17	FLB-50	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
18	—	2/ LITE	SETTING BLOCKS, AT 1/4 POINTS	EPDM	DUROMETER 85±5 SHORE A
19	W223412G	AS REQD.	FIN SEAL PILE W'STRIPPING	POLYPROPYLENE	ULTRAFAB
20	QW521	AS REQD.	COMPRESSION W'STRIPPING	Q-LON	SCHLEGEL
21	#12 X 1-1/2"	AS REQD.	FRAME AND LEAF ASSEMBLY SCREWS	ST. STEEL	HWH SMS
22	—	—	—	—	—
23	—	2/LEAF	3/8" DIA. THREADED ROD	STEEL	—
24	E1512	AS REQD.	'H' MULLION	6063-T6	—
24A	—	AS REQD.	MULLION W'STRIPPING	VINYL	—
25	??	AS REQD.	SIDELITE ADAPTER	6063-T5	—
25A	??	AS REQD.	SIDELITE ADAPTER CAP	6063-T5	—
25B	#10 X3/4"	AS REQD.	ADAPTER FASTENERS	ST. STEEL	AT 6" FROM ENDS & 12" O.C.
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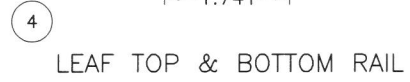
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FL #30783

revisions:			
no date	by description		

date: 10-18-19

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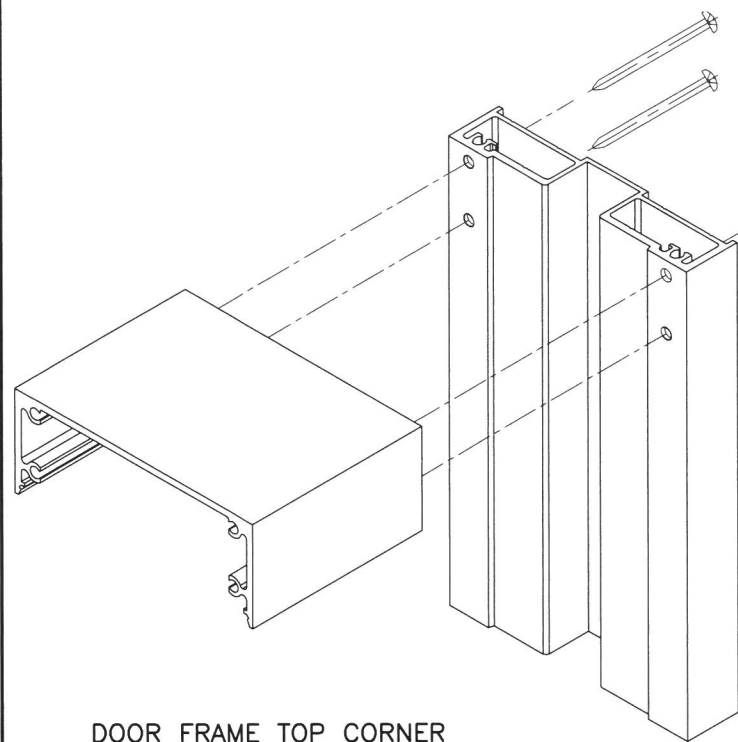
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chk. by:

chk. by:

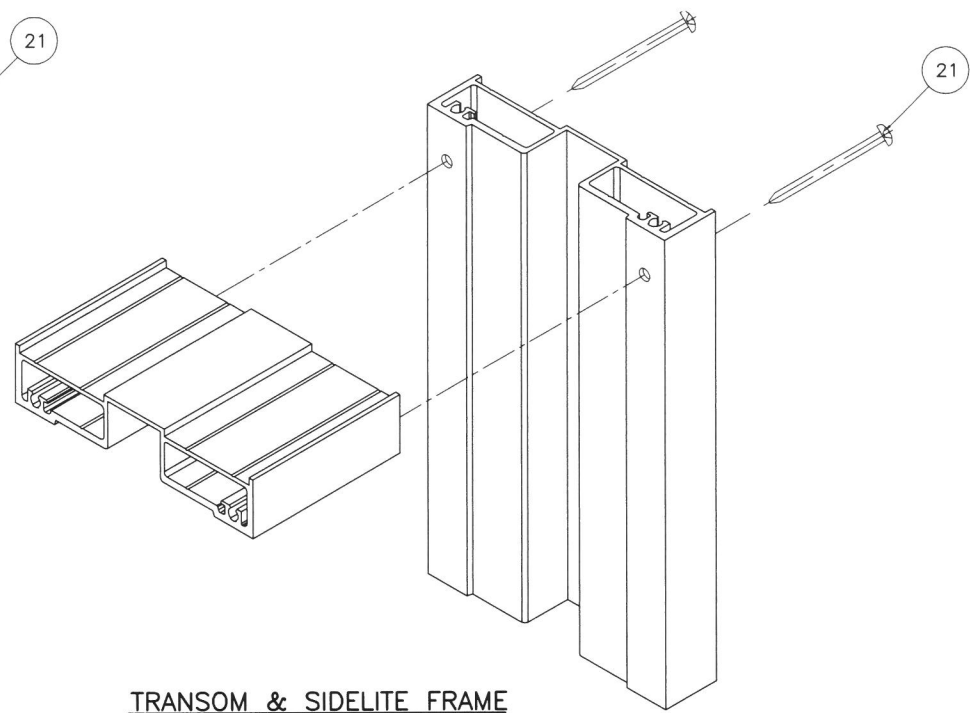
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19-109F

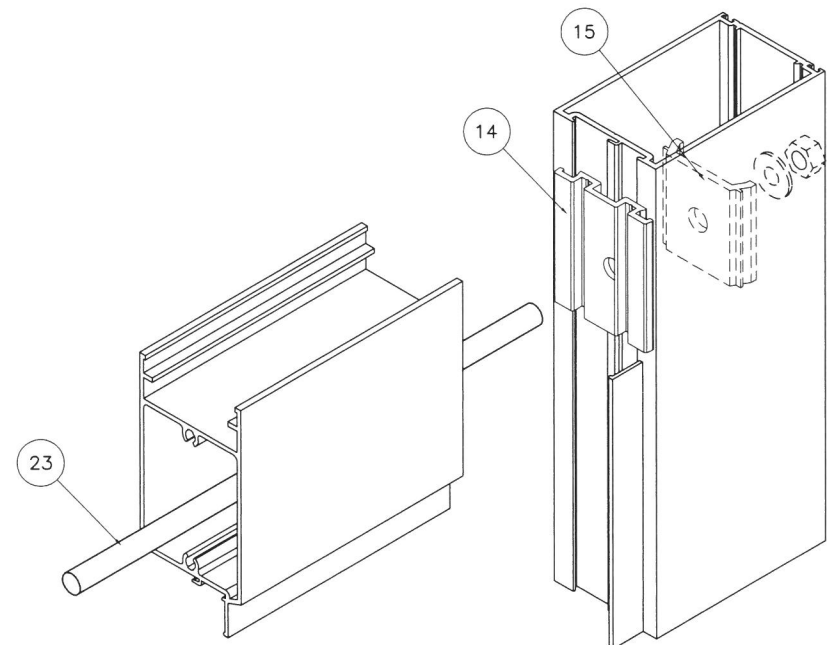
sheet 13 of 14



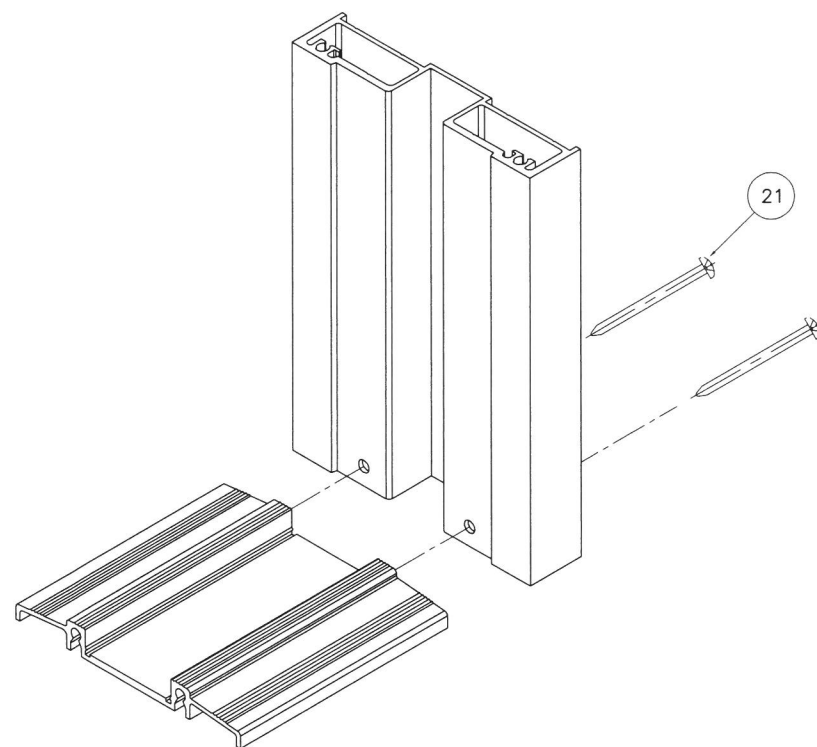
DOOR FRAME TOP CORNER



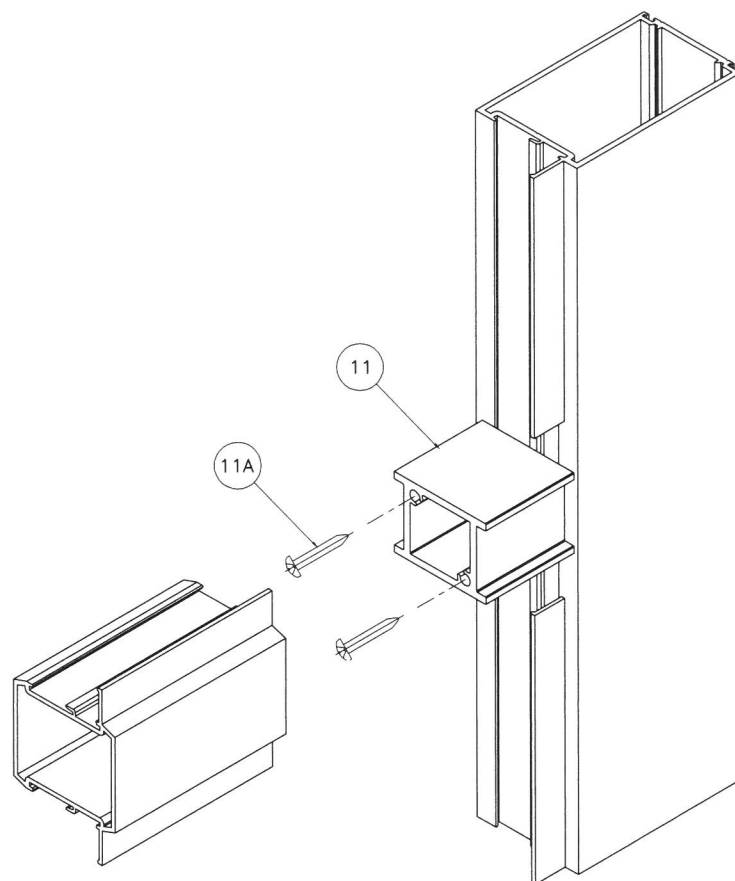
TRANSOM & SIDELITE FRAME
TOP/BOTTOM CORNER



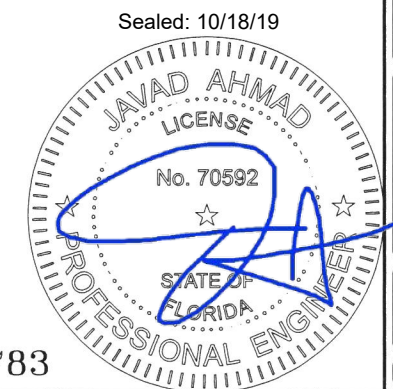
LEAF CORNER



DOOR FRAME BOTTOM CORNER



MID RAIL CORNER



FL #30783

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chk. by:

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19-109F

sheet 14 of 14