



JAVAD AHMAD PE, inc
 7875 NW 12th St., Suite 102 Doral,
 FL 33126
 Ph: (305) 424-8001
 support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

SERIES 600
ALUMINUM OUTSWING ENTRANCE DOOR

SINGLE (X) AND DOUBLE (XX) LEAF DOORS SEE SHEET 2.
 STAND ALONE SINGLE SIDELITE SEE SHEET 3.
 SINGLE AND DOUBLE LEAF DOORS WITH SIDELITES SEE SHEET 3.
 LOWER VALUES FROM SIDELITE CAPACITY CHART OR DOOR CAPACITY WILL APPLY TO ENTIRE SYSTEM.

DOOR WITH STANDARD THRESHOLD APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. ADA THRESHOLD IS NOT APPROVED FOR WATER INFILTRATION RESISTANCE. DOORS WITH THE ADA THRESHOLD MAY BE INSTALLED IN LOCATIONS WHERE THE OVERHANG LENGTH IS GREATER THAN OR EQUAL TO THE OVERHANG HEIGHT (SEE FIGURE A).

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 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.

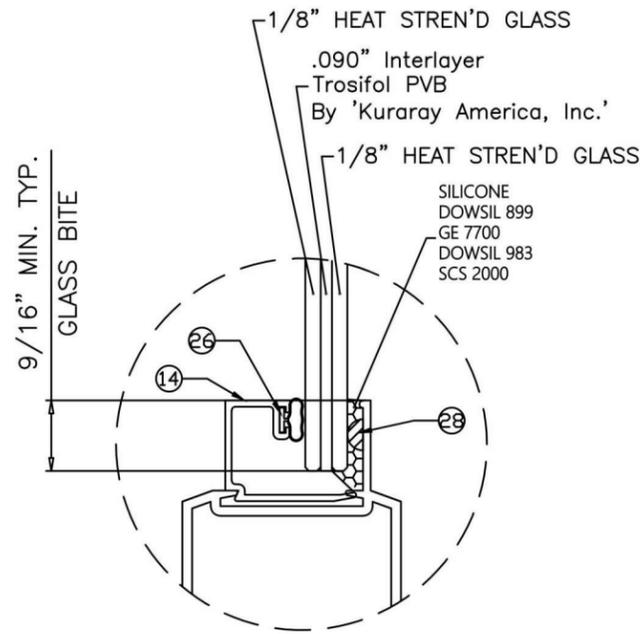
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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

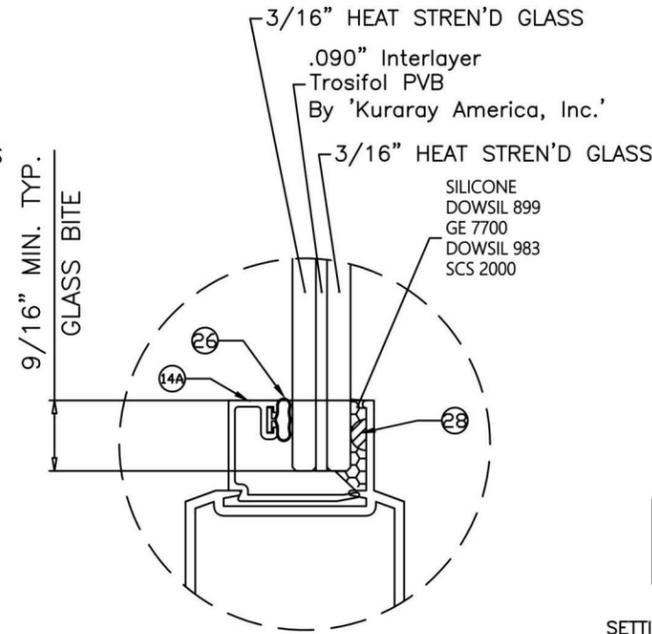
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

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

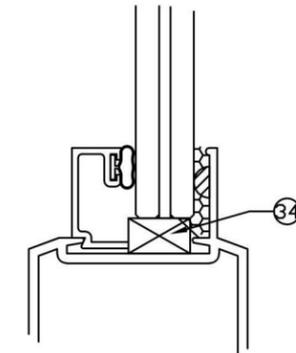
DESIGN LOAD SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.
 MAINTENANCE LOADS SHALL BE ANALYZED SEPARATELY.



GLASS TYPE 'G1'
 5/16" NOM. LAMI. GLASS



GLASS TYPE 'G2'
 7/16" NOM. LAMI. GLASS



SETTING BLOCKS AT LAM. GLASS REQD. FOR WIDTHS EXCEEDING 36" ONLY. NOTCH GLAZING BEAD LEG TO CLEAR BLOCKS

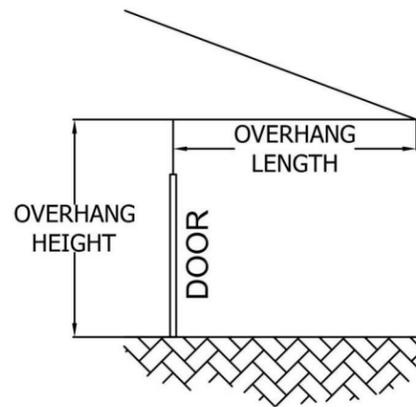
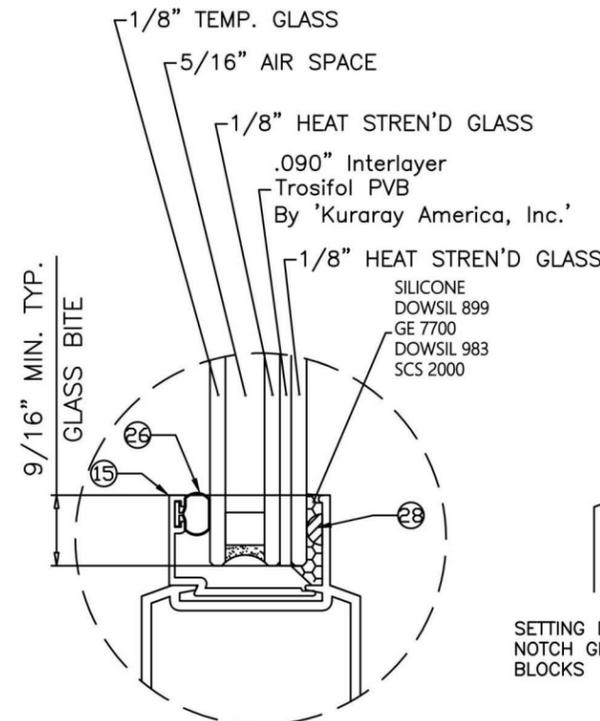
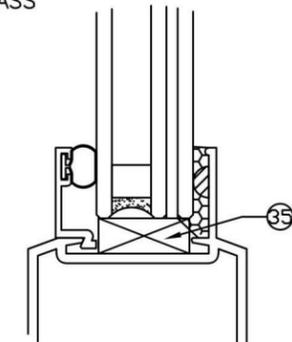


FIGURE A



GLASS TYPE 'G3'
 3/4" NOM. INSUL. LAM. GLASS



SETTING BLOCKS AT INSUL. LAM. GLASS REQD. FOR WIDTHS EXCEEDING 36" ONLY. NOTCH GLAZING BEAD LEG TO CLEAR BLOCKS

GLAZING OPTIONS

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

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JA-1844-24	12/30/2024	REVISION	DESCRIPTION
drawing no.	date:	No.	DATE
			BY

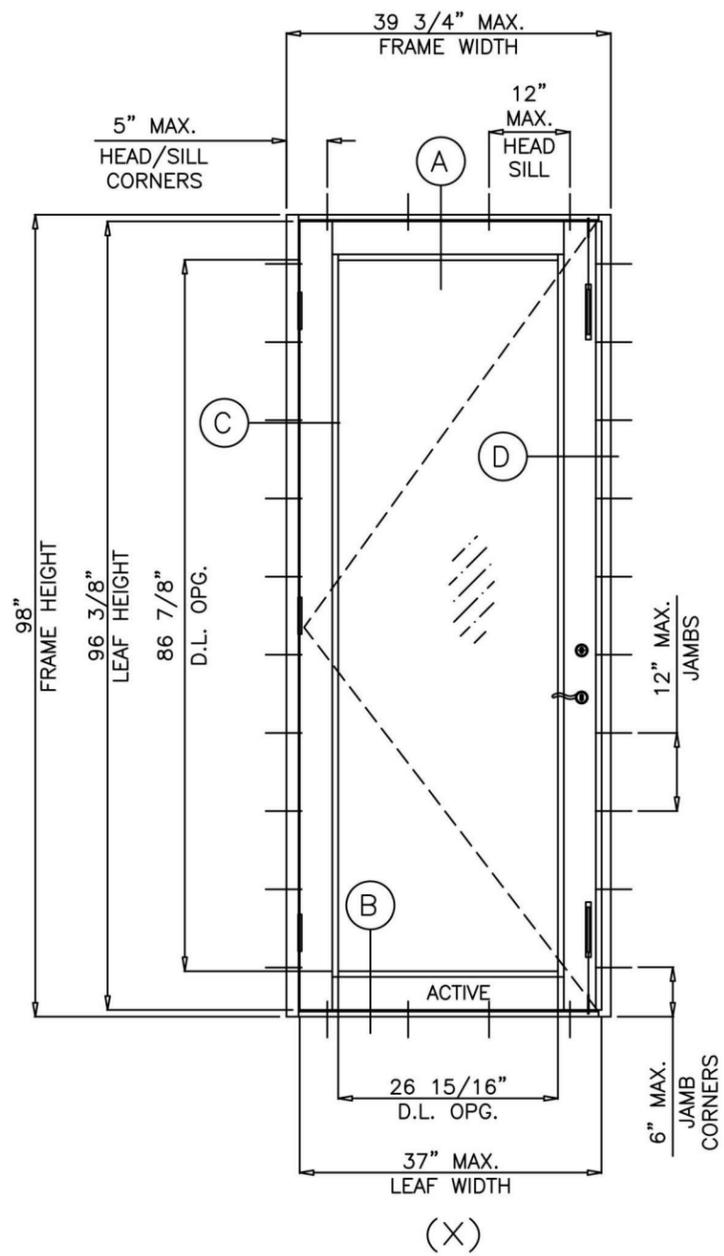
SERIES 600-ALUMINUM OUTSWING ENTRANCE DOOR (L.M.I.)
 LARGE MISSILE IMPACT RATED

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



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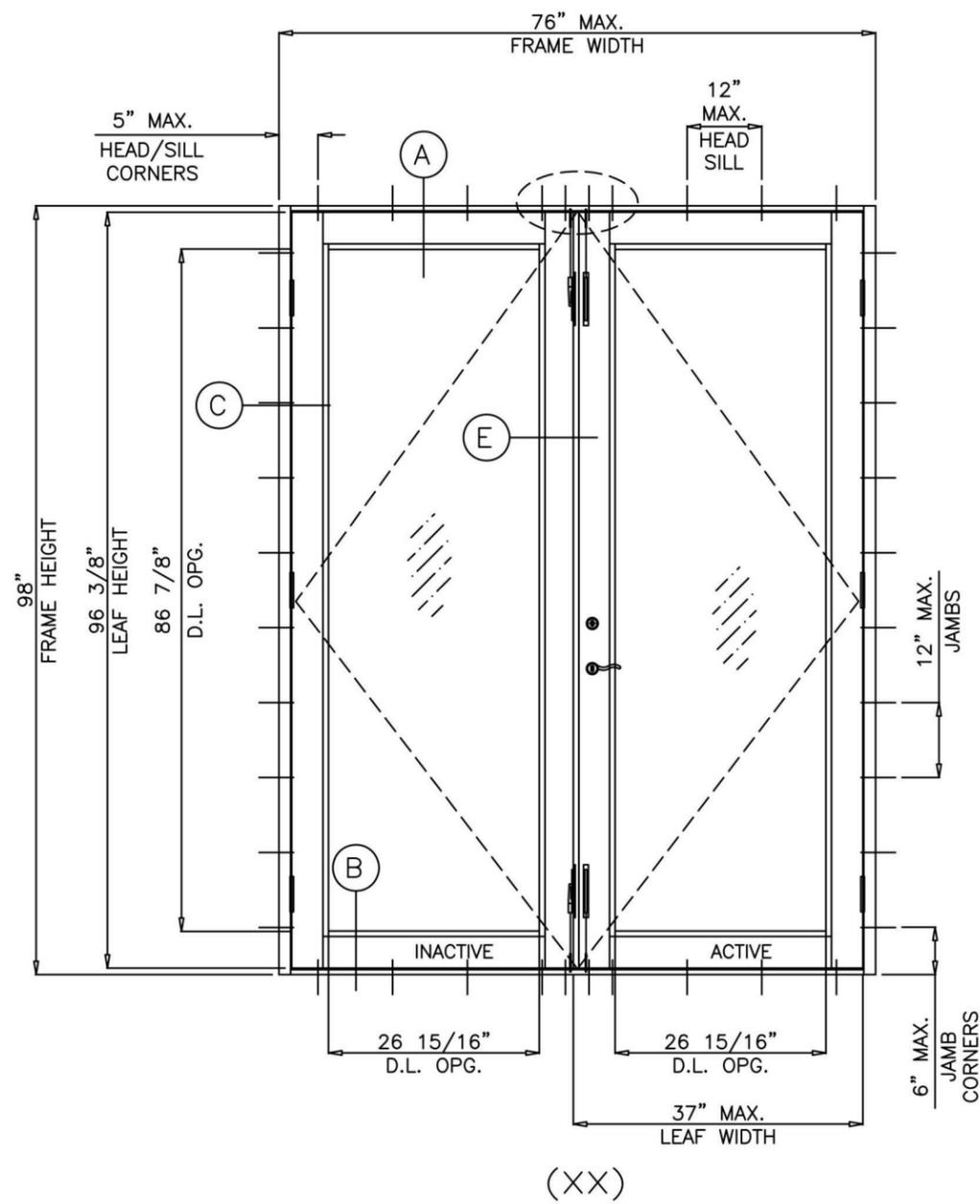


(X)

DOORS LOAD CAPACITY - PSF SINGLE DOOR (X)				
DOOR DIMS.			LAMINATED GLASS	
FRAME WIDTH	LEAF WIDTH	FRAME HEIGHT	POS. (+)	NEG. (-)
39 - 3/4"	37"	98"	70.0	75.0

NOTE:
EGRESS REQUIREMENTS TO BE REVIEWED
BY BUILDING OFFICIAL

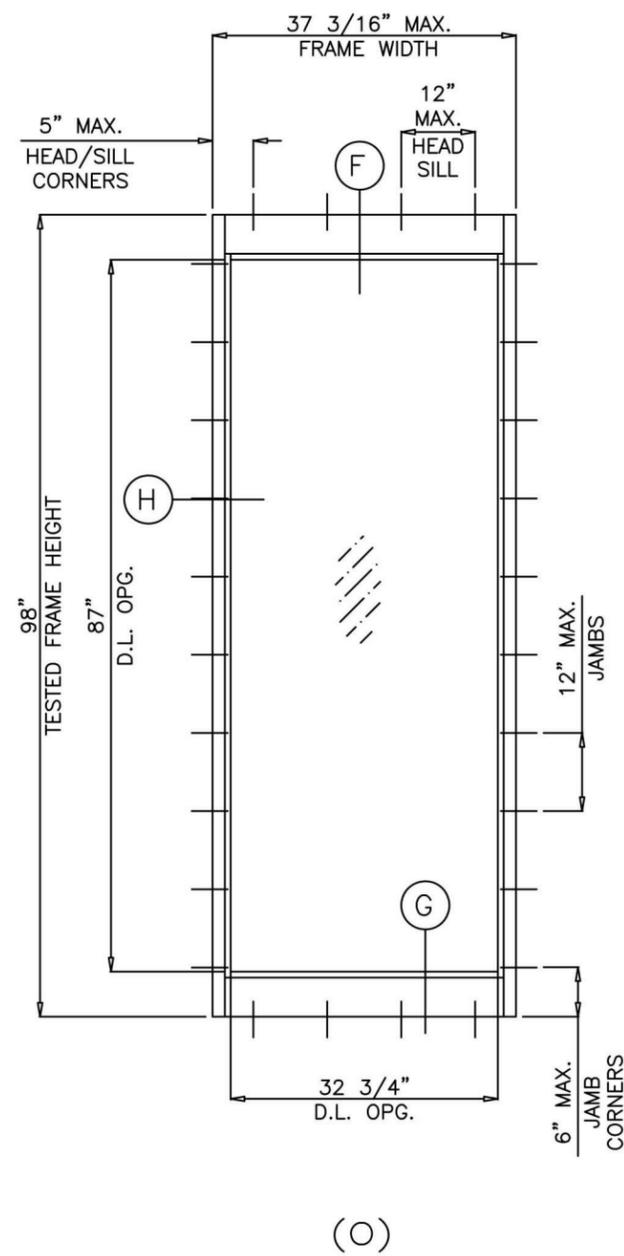
GLASS D.L.O. DIMS.
 D.L.O. HEIGHT = FRAME HEIGHT - 11.125"
 D.L.O. WIDTH (X DOORS) = FRAME WIDTH - 12.813"
 D.L.O. WIDTH (XX DOORS) = (FRAME WIDTH - 22.125")/2



(XX)

DOORS LOAD CAPACITY - PSF DOUBLE DOOR (XX)				
DOOR DIMS.			LAMINATED GLASS	
FRAME WIDTH	LEAF WIDTH	FRAME HEIGHT	POS. (+)	NEG. (-)
76"	37"	98"	70.0	75.0

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



(O)

STAND ALONE SINGLE SIDELITE
SEE SHEET 3 FOR CAPACITY



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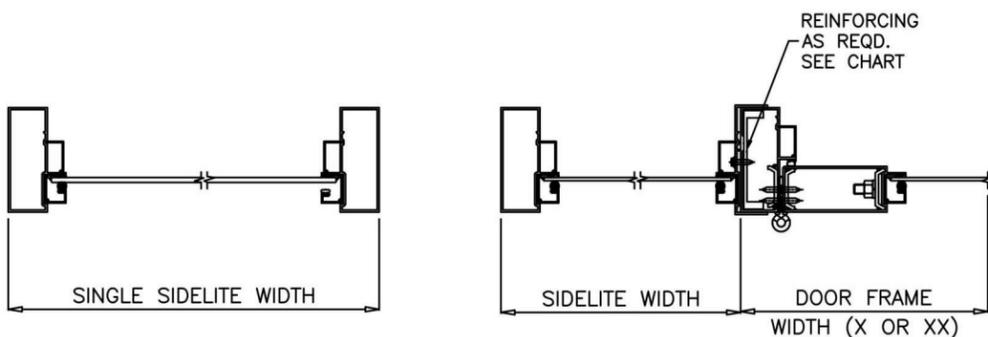


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Design Load Capacity - PSF									
Stand Alone Single Sidelites									
Without Reinforcement	Sidelite Frame Height (in.)								
	82"	86"	92"	98"	82"	86"	92"	98"	
24"	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+63.3	-63.3	
30"	+70.0	-75.0	+70.0	-75.0	+69.8	-69.8	+57.8	-57.8	
36"	+70.0	-75.0	+70.0	-75.0	+64.1	-64.1	+53.1	-53.1	
37"	+70.0	-75.0	+70.0	-75.0	+63.3	-63.3	+52.4	-52.4	
42"	+61.7	-66.1	+61.7	-66.1					

Design Load Capacity - PSF									
Sidelites with Single or Double Leaf Doors									
(SEE NOTE BELOW)									
Sidelite Frame Width (in.)	Reinf.	Sidelite Frame Height (in.)							
		82"	86"	92"	98"	82"	86"	92"	98"
24"	w/o Reinf.	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+63.3	-63.3
	w/ Reinf.	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0
30"	w/o Reinf.	+70.0	-75.0	+70.0	-75.0	+69.8	-69.8	+57.8	-57.8
	w/ Reinf.	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0
36"	w/o Reinf.	+70.0	-75.0	+70.0	-75.0	+64.1	-64.1	+53.1	-53.1
	w/ Reinf.	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0
37"	w/o Reinf.	+70.0	-75.0	+70.0	-75.0	+63.3	-63.3	+52.4	-52.4
	w/ Reinf.	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0	+70.0	-75.0
42"	w/o Reinf.	+61.7	-66.1	+61.7	-66.1				
	w/ Reinf.	+61.7	-66.1	+61.7	-66.1				



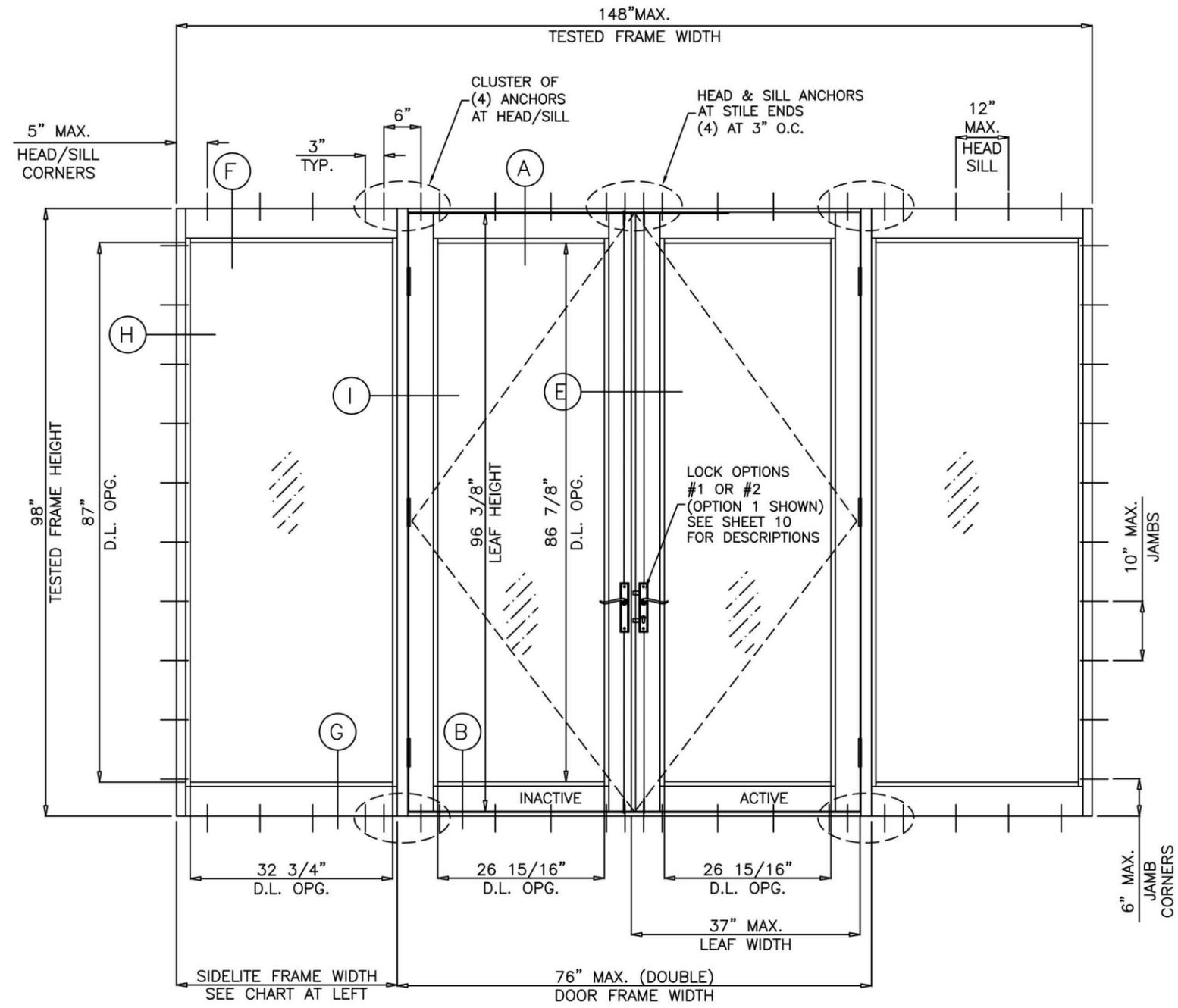
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS)

FOR SINGLE OR DOUBLE DOORS CAPACITY SEE SHEET 2.
FOR SIDELITE MULLION CAPACITY SEE CHART ABOVE.
LOWER VALUES FROM DOOR CAPACITY CHARTS OR DOOR/SIDELITE
MULLION CHART WILL APPLY TO ENTIRE SYSTEM.

FOR STAND ALONE SINGLE SIDELITE CAPACITY SEE CHART ABOVE.

FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH
OR HEIGHT DIMENSION SHOWN ON THE TABLE.

GLASS D.L.O. DIMS.
D.L.O. HEIGHT (SIDELITE) = FRAME HEIGHT - 11.000"
D.L.O. WIDTH (SIDELITE) = FRAME WIDTH - 4.438"



(OXXO)

FOR OXO AND OX/XO CONFIGURATIONS, SEE SHEET 4 & 5 RESPECTIVELY.

MAX. UNIT TESTED FRAME AREA NOT TO EXCEED 100.72 SQ. FT. PER FBC



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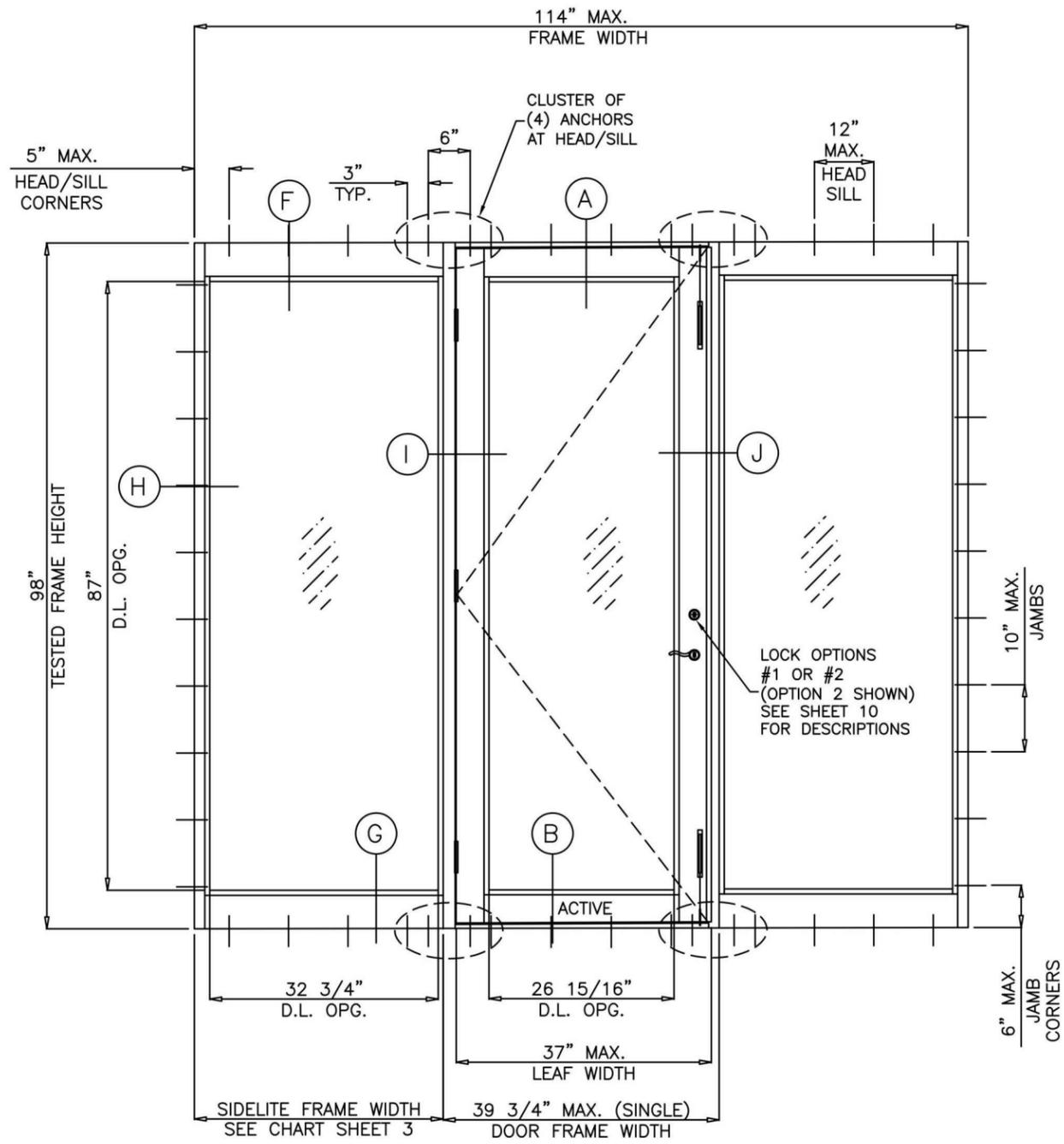
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(OXO)
HINGED LEFT SHOWN
HINGED RIGHT SIMILAR

NOTE:
FOR SINGLE OR DOUBLE DOORS CAPACITY SEE SHEET 2.
FOR SIDELITE MULLION CAPACITY SEE CHART ON SHEET 3.
LOWER VALUES FROM DOOR CAPACITY CHARTS OR DOOR/SIDELITE
MULLION CHART WILL APPLY TO ENTIRE SYSTEM.
FOR STAND ALONE SINGLE SIDELITE CAPACITY SEE CHART SHEET 3.



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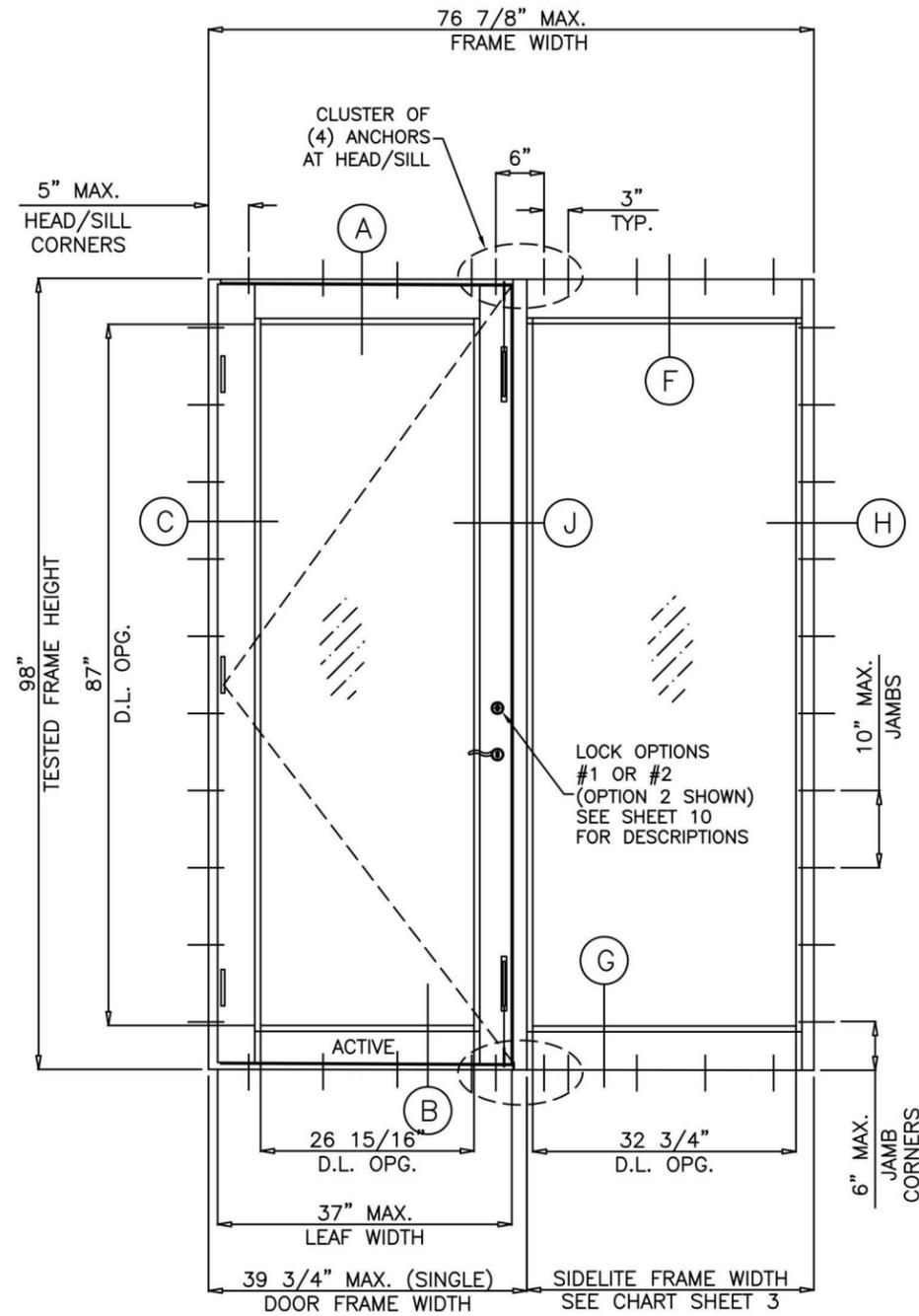


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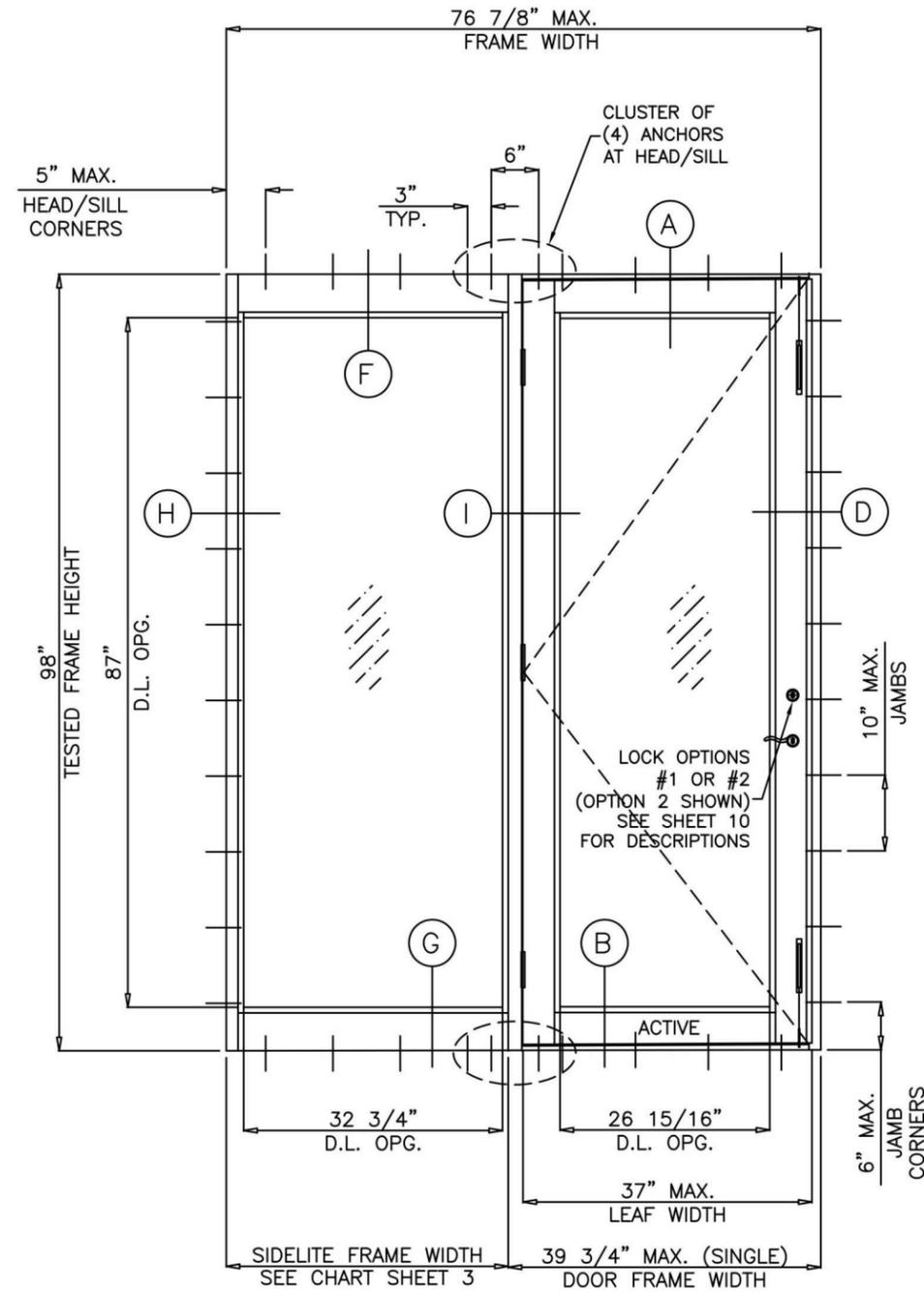


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(XO W/ LOCK STILE TO MULL)
OX SIMILAR



(OX W/ HINGE STILE TO MULL)
XO SIMILAR

NOTE:

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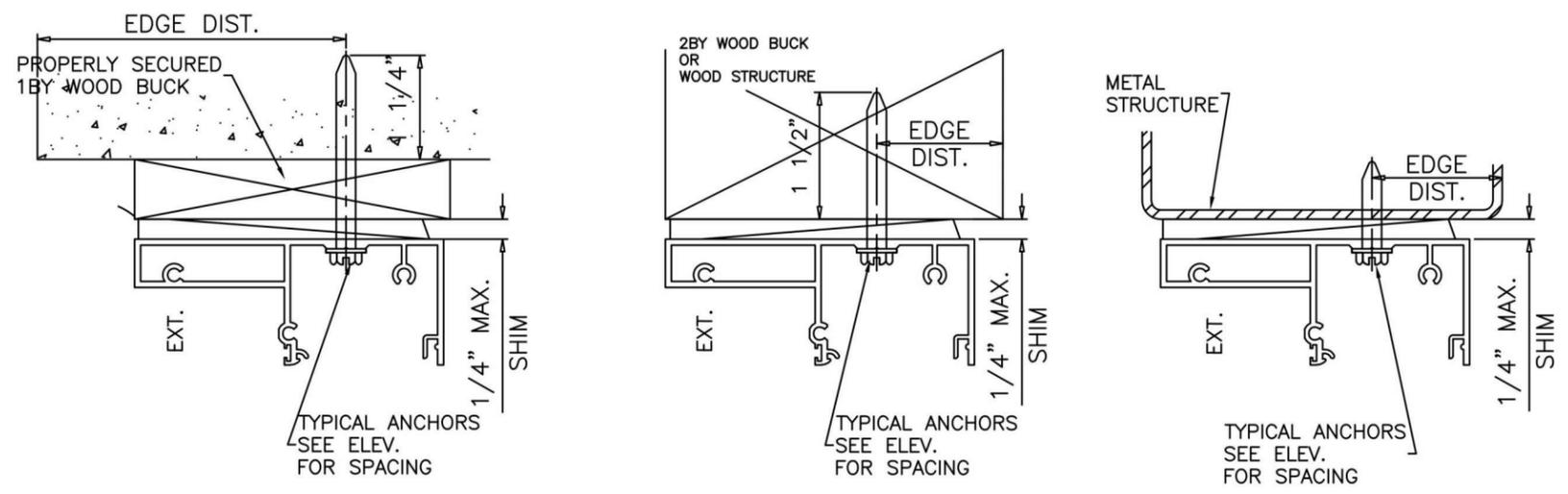
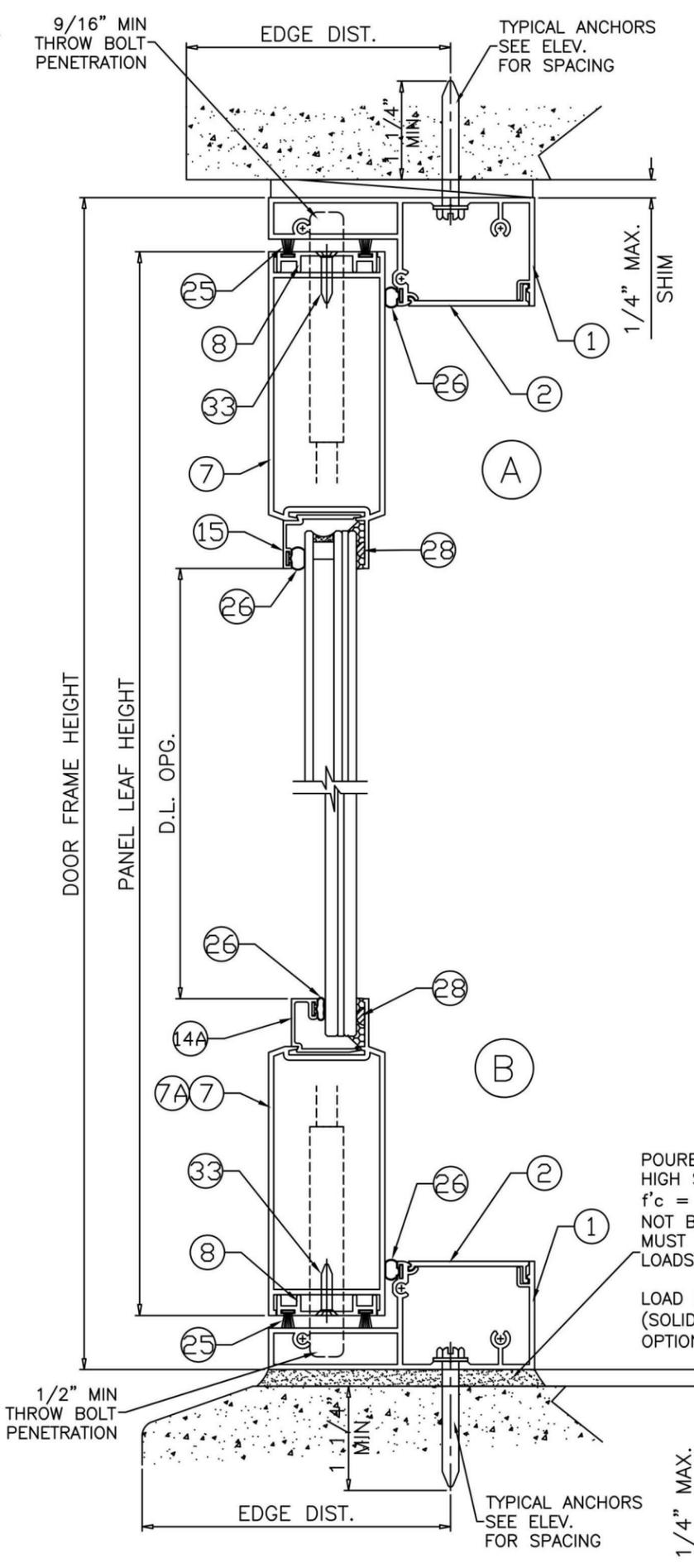


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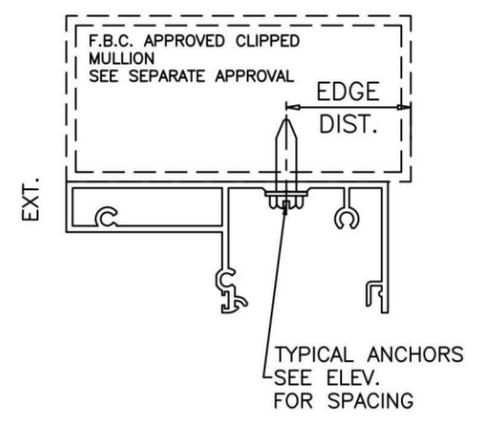
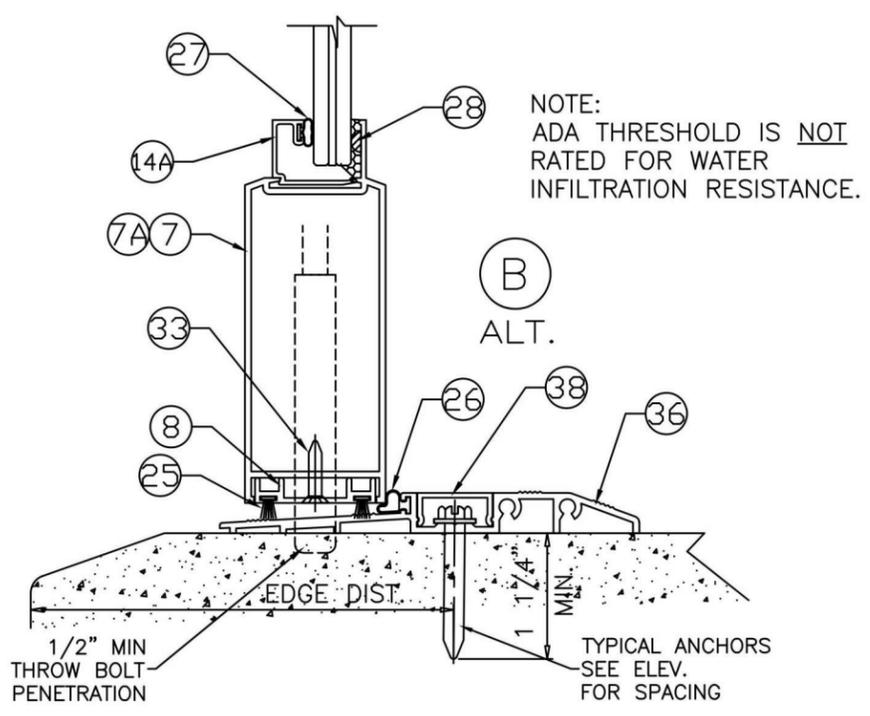


1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
1/4" DeWalt UltraCon +	All	Southern Pine (SG = 0.55)	1"	1-1/2"
	All	Thru 1BY Buck into Concrete (min. 3 ksi)	2-1/2"	1-1/4"
	Jambs	Thru 1BY Buck into Hollow or Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	1-1/4"
	All	Concrete (min. 3ksi)	2-1/2"	1-1/4"
	Jambs	Hollow or Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	1-1/4"
#14 SMS or Self Drilling Screws (Gr. 2)	All	F.B.C Approved Mullions	3/4"	(3) Threads min. beyond metal thickness
	Head/Jambs	Aluminum 1/8" Thk. Min. (6063-T5)	3/4"	(3) Threads min. beyond metal thickness
	Head/Jambs	Steel 1/8" Thk. Min. (min. 36 ksi)	3/4"	(3) Threads min. beyond metal thickness

1. STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED
2. ALL ANCHOR HEAD TYPES ARE ACCEPTABLE



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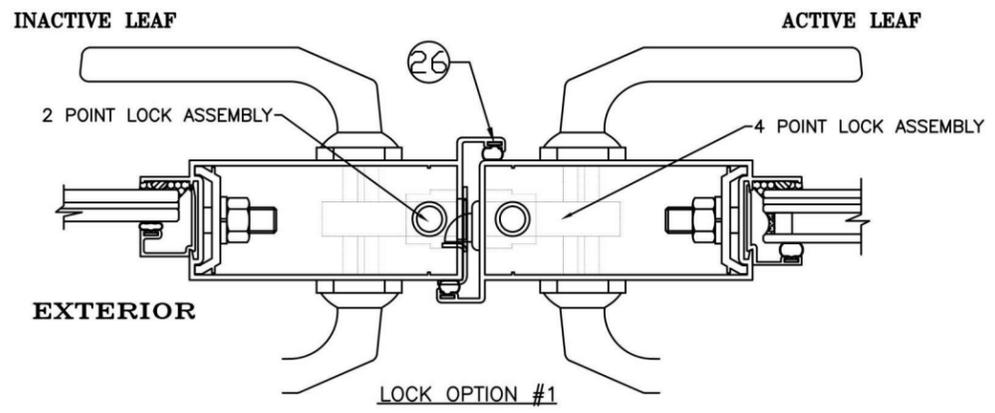
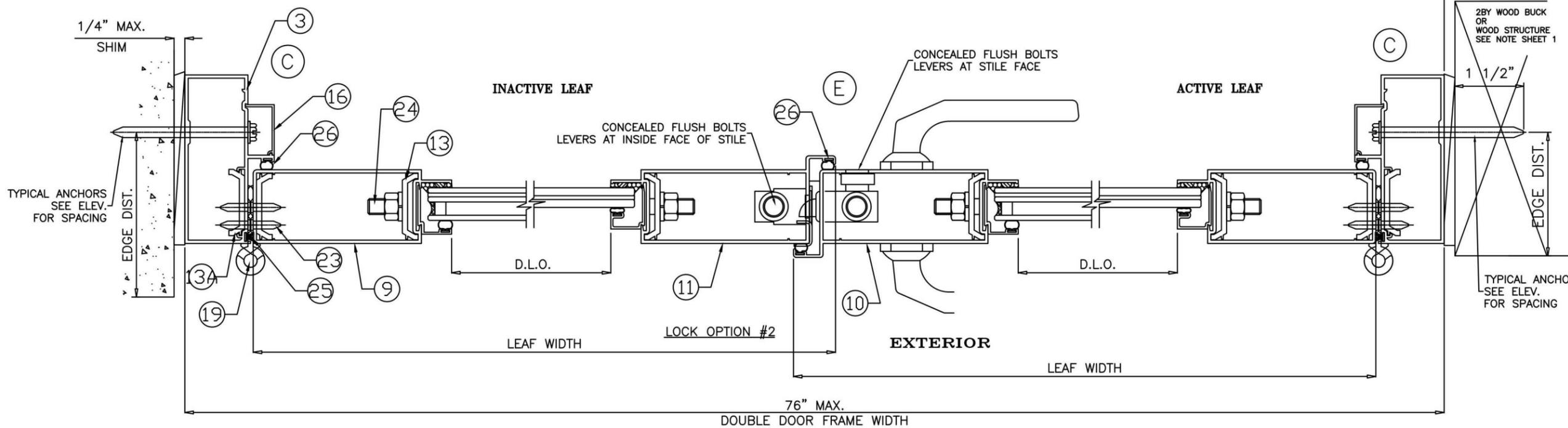
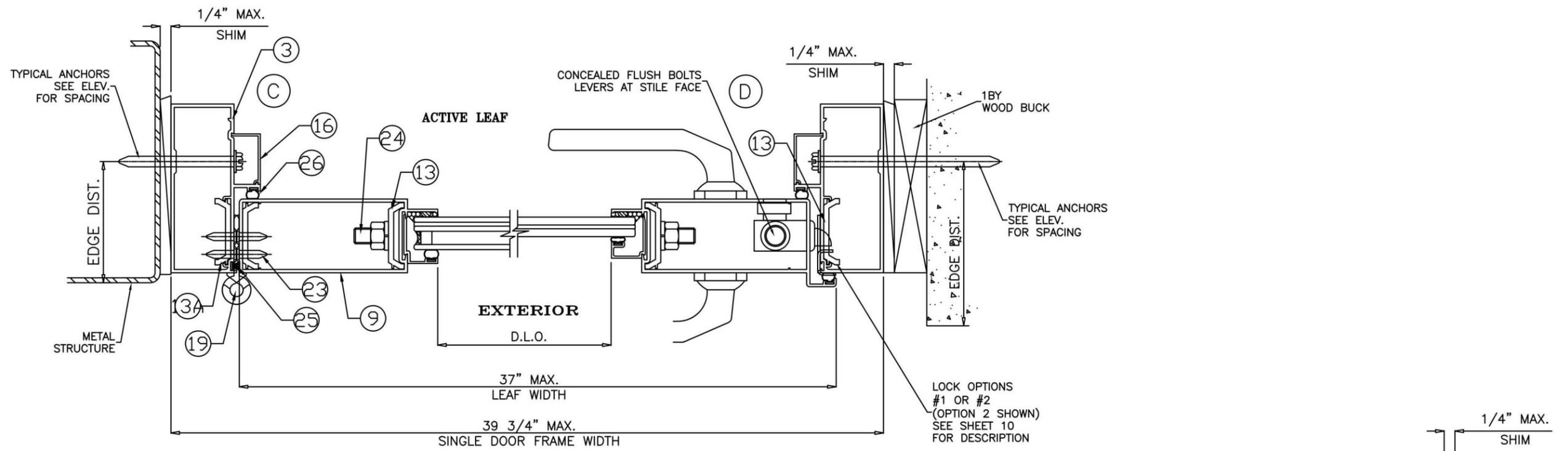
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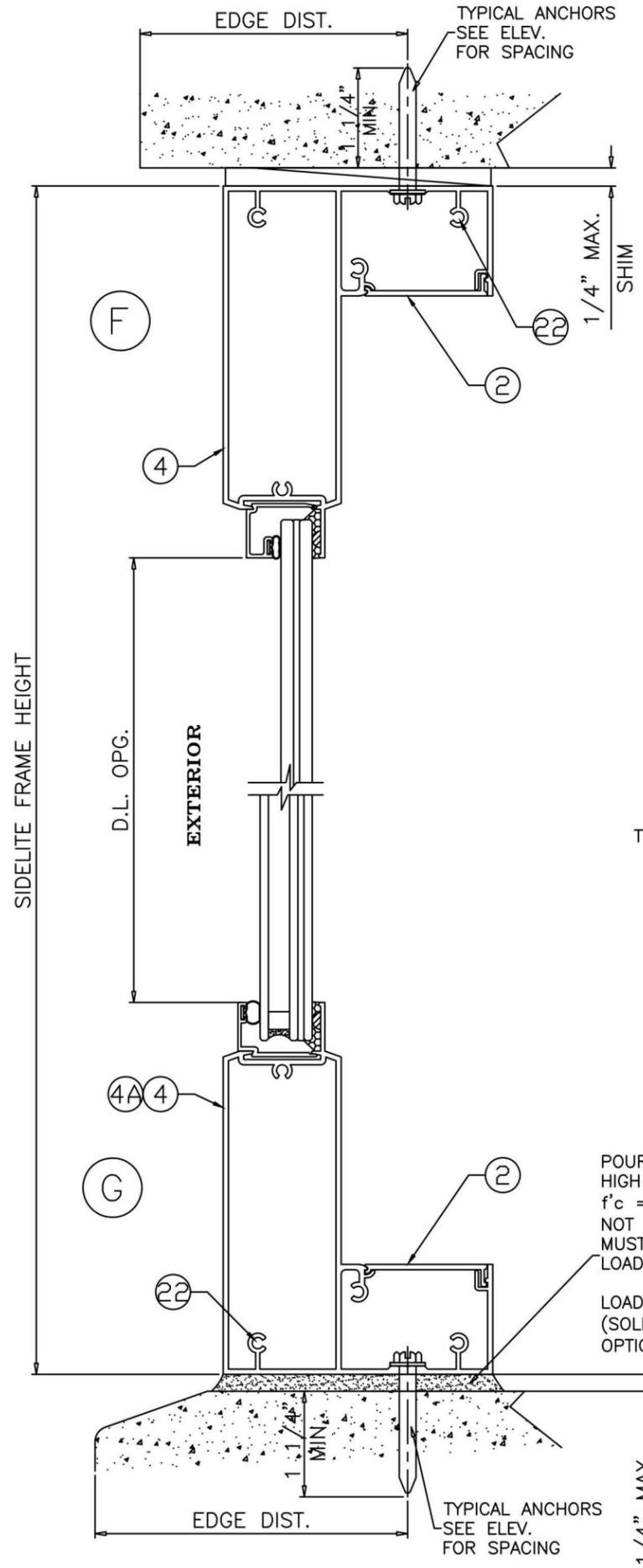
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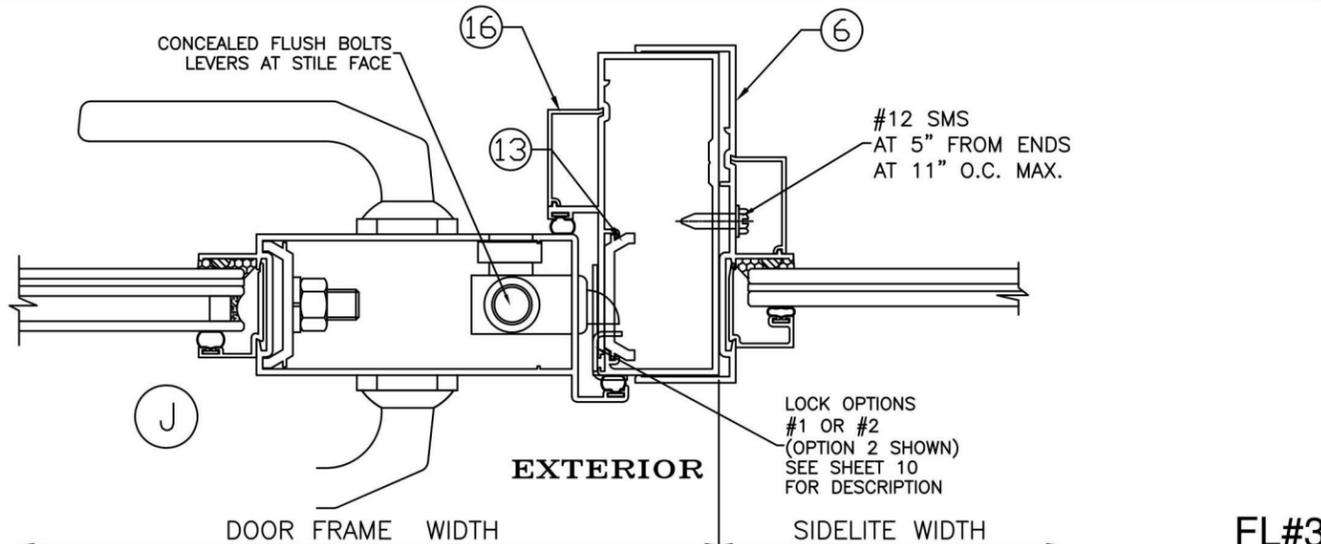
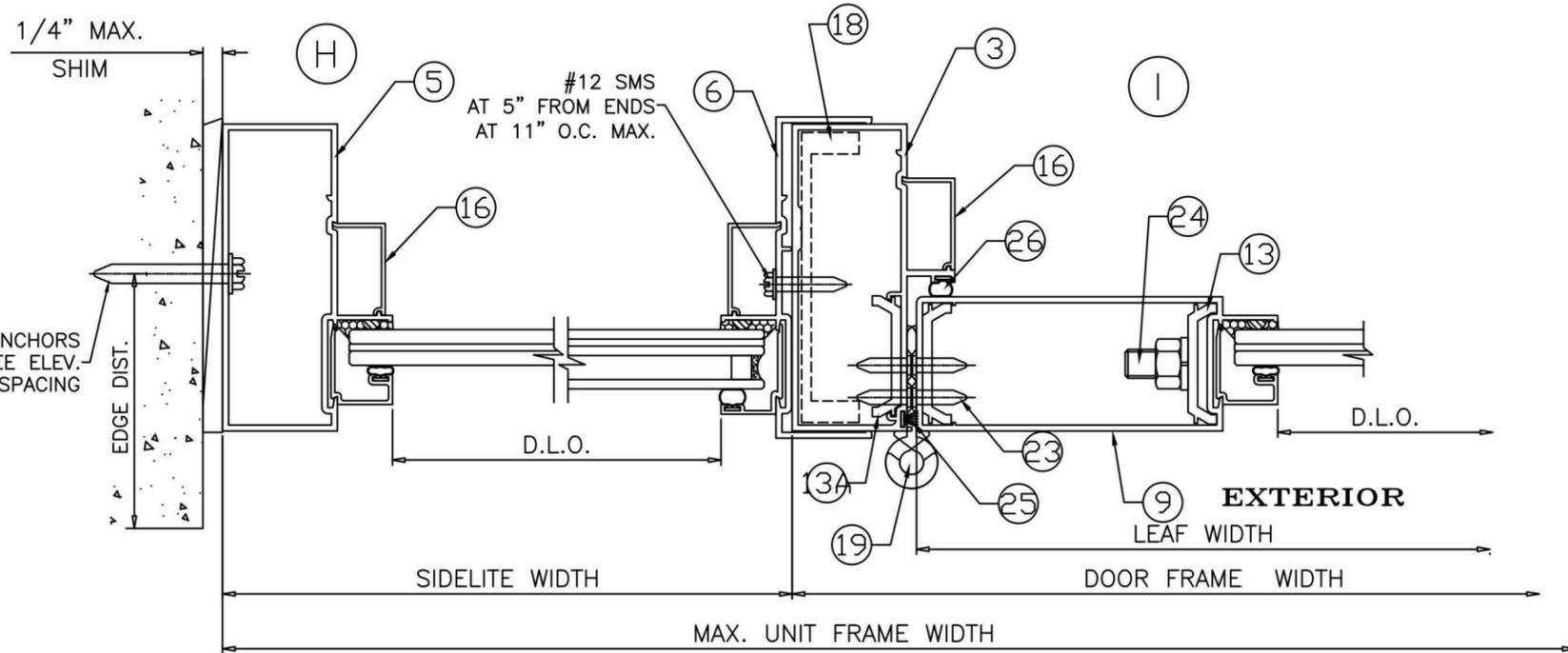
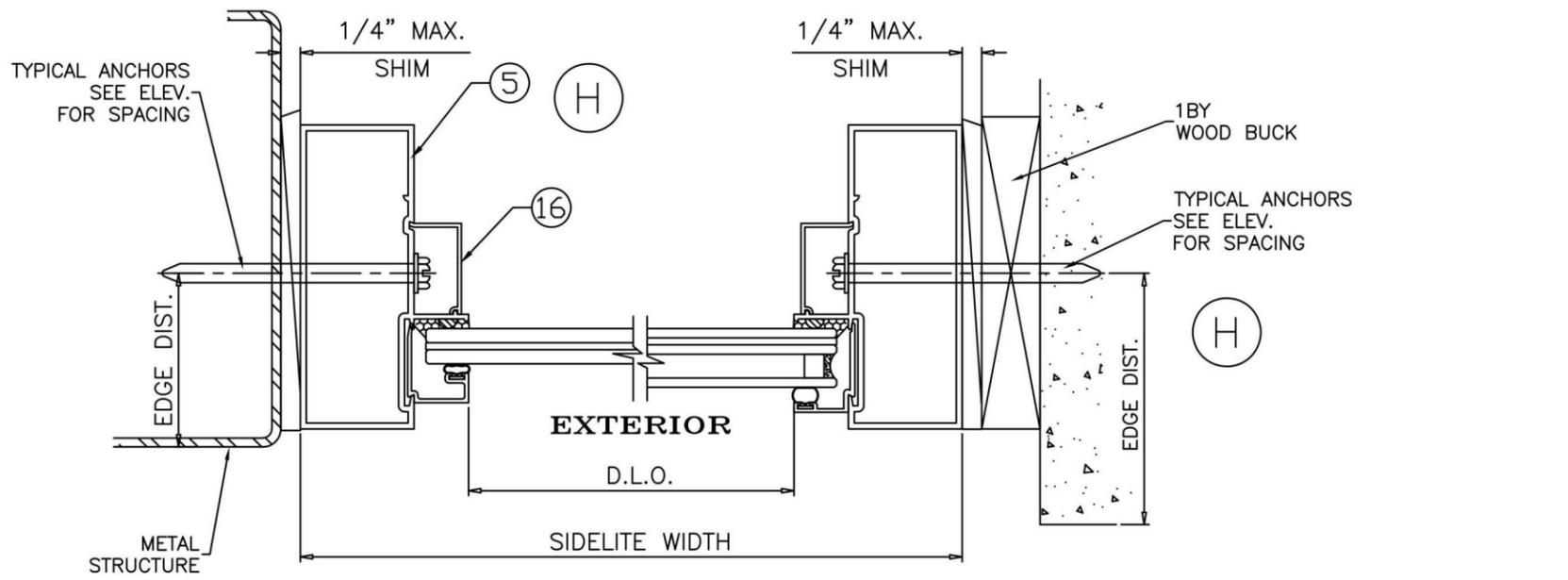
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POURED & HARDENED HIGH STRENGTH GROUT $f'_c = 5000$ PSI MIN. NOT BY "ECO WINDOWS" MUST TRANSFER SHEAR LOADS TO STRUCTURE

LOAD BEARING (SOLID SHIMS OPTIONAL TO GROUT)



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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E601	-	DOOR FRAME HEAD/SILL	6063 - T6	-
2	E602	-	FRAME COVER	6063 - T6	-
3	E603	-	DOOR FRAME JAMB	6063 - T6	-
4	E604	-	SIDELITE TOP & BOTTOM FRAME	6063 - T6	-
4A	E626	-	SIDELITE 9" BOTTOM FRAME	6063 - T6	-
5	E605	-	SIDELITE FRAME JAMB	6063 - T6	-
6	E606	-	SIDELITE SLIP ON JAMB	6063 - T6	-
7	E607	-	LEAF TOP & BOTTOM RAIL	6063 - T6	-
7A	E625	-	LEAF 9" BOTTOM RAIL	6063 - T6	-
8	E608	-	LEAF W'STRIP ADAPTER	6063 - T6	-
9	E609	-	LEAF HINGE STILE	6063 - T6	-
10	E610	-	LEAF LOCK STILE	6063 - T6	-
11	E611	-	LEAF ASTRAGAL STILE	6063 - T6	-
12	E612	-	LEAF ALIGNMENT BRACKET	6063 - T6	-
13	E613	-	LEAF CLAMP	6063 - T6	4-1/4" LONG
13A	E613	-	HINGE BACK-UP PLATE	6063 - T6	12" LONG
14	E614	-	GLAZING BEAD (5/16" LAM. GLASS)	6063 - T6	-
14A	E109	-	GLAZING BEAD (7/16" LAM. GLASS)	6063 - T6	-
15	E615	-	GLAZING BEAD (INSUL. GLASS)	6063 - T6	-
16	E616	-	SNAP COVER	6063 - T6	-
17	E613	-	BOLT SUPPORT	6063 - T6	NOT SHOWN
18	-	AS REQD.	SIDELITE MULLION REINFORCING	6063 - T6	-
19	FD-107	3/ LEAF	BUTT HINGE	ALUMINUM	SULLIVAN & ASSOC.
20	FB1202	-	FLUSH BOLT LEVER	-	SULLIVAN & ASSOC.
21	FBR914SS	-	CONCEALED FLUSH BOLT ROD	ST. STEEL	SULLIVAN & ASSOC.
22	#10 X 1-1/2"	AS REQD.	FRAME ASSEMBLY SCREWS	-	-
23	#10 X 3/4"	-	HINGE INSTALLATION FASTENERS	-	FH SMS
24	-	-	3/8" DIA. THREADED ROD	STEEL	-
25	W11323	-	PILE W'STRIPPING	WOOL	ULTRAFAB
26	E20618-KN-3020	-	BULB W'STRIPPING	SANTOPRENE	EPDM
27	E206	-	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB
28	-	-	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
29	E622	-	FLUSH BOLT CUP	NYLON	-
30	DL01RC	-	BLACK BOLT SUPPORT BLOCK	POLYETHYLENE	INTERLOCK
31	DL01WB	-	WHITE BOLT SUPPORT BLOCK	POLYETHYLENE	ACME PLASTIC
33	#10 X 3/4"	2/ ADAPTER	FH SELF DRILLING SCREWS	-	FH SMS
34	-	2/ LITE	SETTING BLOCK, 1/4" X 1/2" X 4"LONG	EPDM	AT 6" FROM EACH END, DUROMETER 80±5
35	-	2/ LITE	SETTING BLOCK, 1/4" X 3/4" X 4"LONG	EPDM	AT 6" FROM EACH END, DUROMETER 80±5
36	E804	-	ADA THRESHOLD	6063-T6	-
38	E816	-	ADA THRESHOLD COVER	6063-T6	-

SEALANT:

ALL FRAME/PANEL JOINTS AND SEAMS SEALED WITH SCHNEE MOREHEAD JM5504 SEALANT



JAVAD AHMAD PE, inc

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Ph: (305) 424-8001

support@ja-pe.com

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drawing no. JA-1844-24	drawn by: MA	check by: BS
date: 12/30/2024	REVISION	
	DATE	DESCRIPTION
	BY	
	No.	

SERIES 600:ALUMINUM OUTSWING ENTRANCE DOOR (L.M.I)
LARGE MISSILE IMPACT RATED



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



SEALED: 12/30/2024

FL#39630.2

LOCKS:

OPTION #1:

ACTIVE LEAF:

4 POINT LOCK ASSEMBLY DL01-6007 BY 'INTERLOCK USA INC.'
 (2) LOCKING POINTS ENGAGING AT INACTIVE LEAF AT STRIKE
 PLATE 1/2" DIA. THROW BOLT (1) AT TOP ENGAGING FRAME
 HEAD AND (1) AT BOTTOM ENGAGING FRAME SILL
 THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
 LOCK HANDLE LOCATED AT 42-1/2" FROM BOTTOM

INACTIVE LEAF:

2 POINT LOCK ASSEMBLY BY 'INTERLOCK USA INC.'
 1/2" DIA. THROW BOLTS AT TOP AND BOTTOM ENGAGING
 FRAME HEAD AND FRAME SILL
 THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
 LOCK LOCATED AT 42-1/2" FROM BOTTOM

OPTION #2:

ACTIVE LEAF:

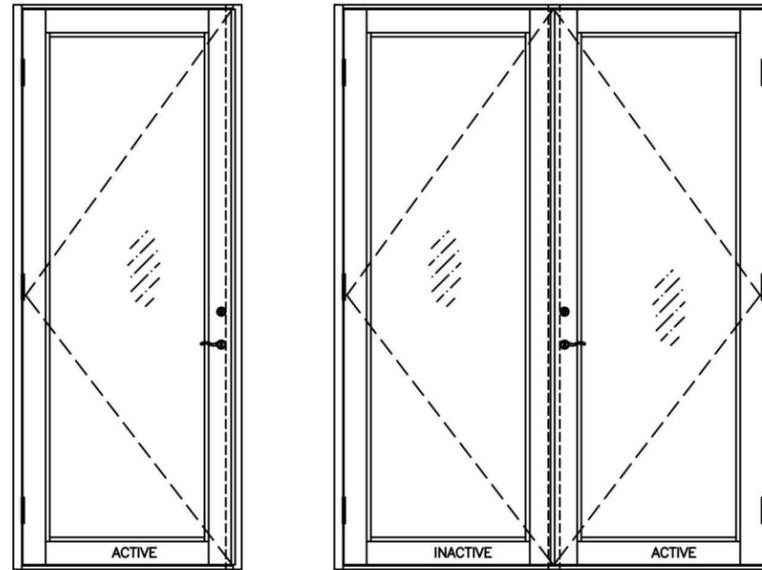
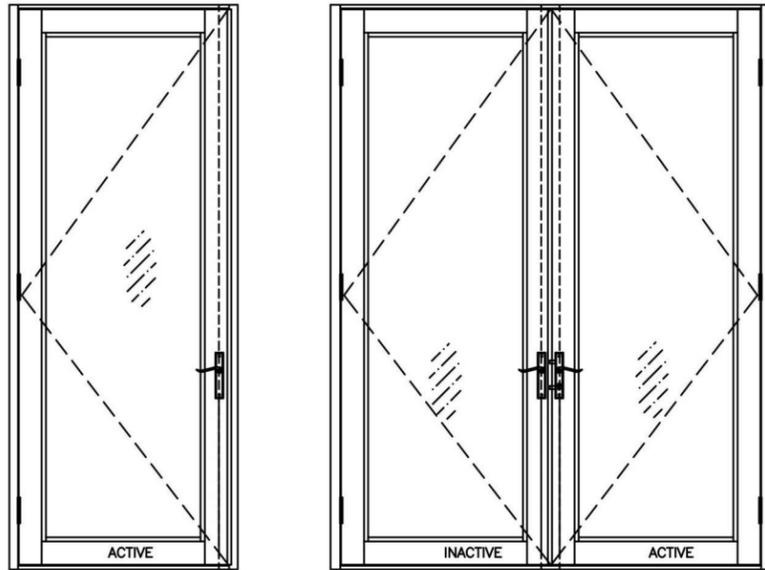
CONVENTIONAL DOOR LOCKSET WITH HANDLE
 DELTA 690 BY 'KWIKSET' LOCATED AT 39-1/4" FROM BOTTOM
 KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR
 THROW BOLT LOCATED AT 44-3/4" FROM BOTTOM

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.'

1/2" X 2" THROW BOLTS ENGAGING FRAME AT HEAD AND SILL
 MANUALLY OPERATED LEVERS MOUNTED ON STILE FACE LOCATED
 AT 10-5/8" FROM TOP AND BOTTOM
 LOCK FASTENED TO STILE WITH (2) #8-32 X 1/2" FH MS

INACTIVE LEAF:

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.'
 1/2" X 2" THROW BOLTS ENGAGING FRAME AT HEAD AND SILL
 MANUALLY OPERATED LEVERS MOUNTED ON INSIDE FACE OF
 LEAF STILE LOCATED AT 10-5/8" FROM TOP AND BOTTOM
 LOCK FASTENED TO STILE WITH (2) #8-32 X 1/2" FH MS



HINGES:

3-1/2" X 7-5/8" X .122" THK. EXTRUDED ALUM. HINGE
 PART #FD-107 BY SULLIVAN & ASSOC.
 3 HINGES PER LEAF
 BOTTOM HINGE AT 10-1/4" FROM BOTTOM
 TOP HINGE AT 11-3/4" FROM TOP
 CENTER HINGE AT MIDSPAN (38" O.C. MAX.)
 HINGES FASTENED WITH #10 X 1" FH SMS
 (5) SCREWS AT HINGE STILE
 (6) SCREWS AT FRAME JAMB



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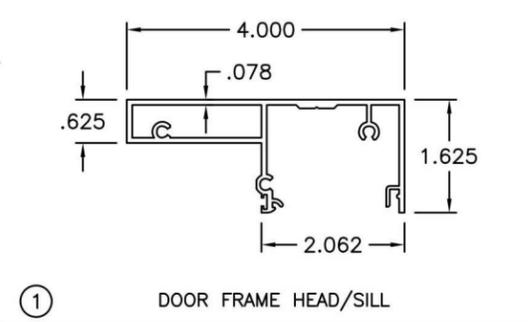


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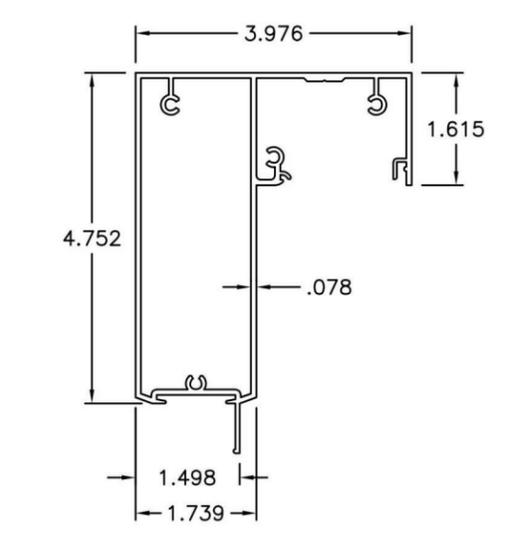


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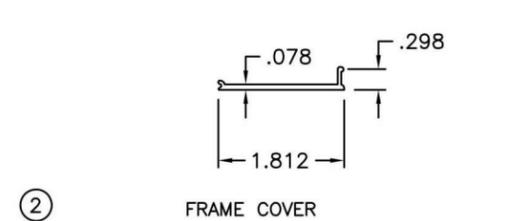
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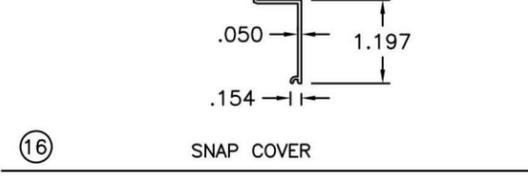
① DOOR FRAME HEAD/SILL



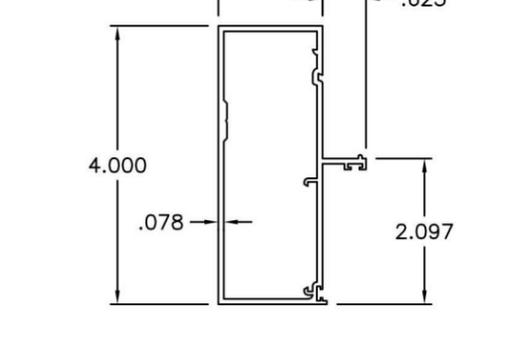
④ SIDELITE TOP & BOTTOM FRAME



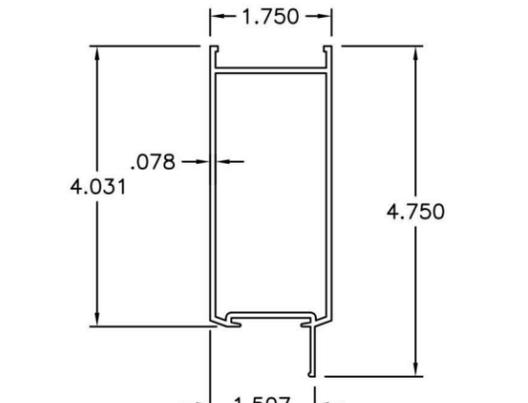
② FRAME COVER



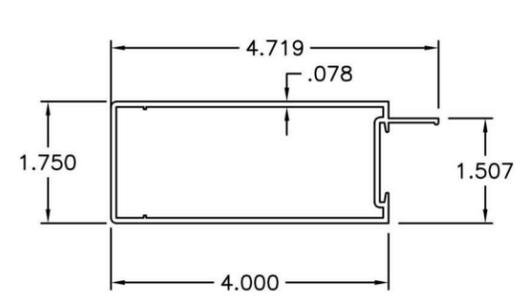
①⑥ SNAP COVER



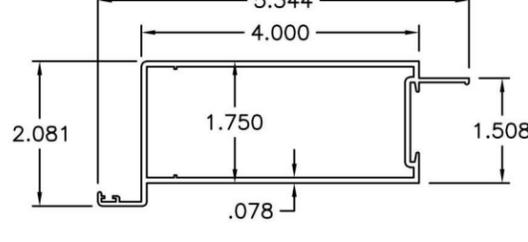
③ DOOR FRAME JAMB



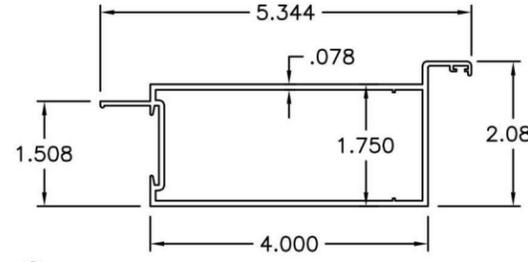
⑦ LEAF TOP/BOTTOM RAIL



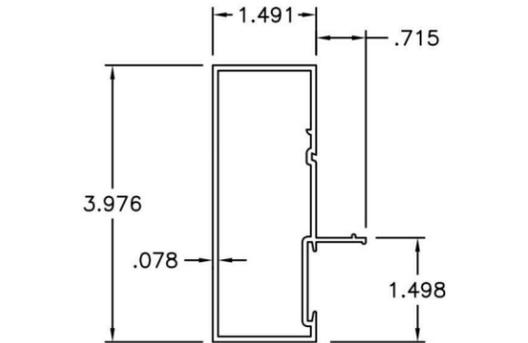
⑨ LEAF HINGE STILE



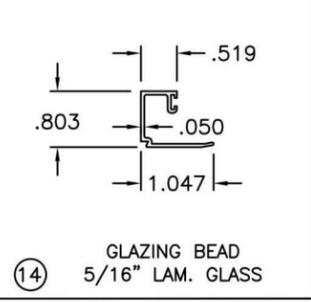
⑩ LEAF LOCK STILE



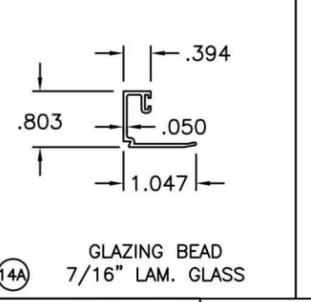
①① LEAF ASTRAGAL STILE



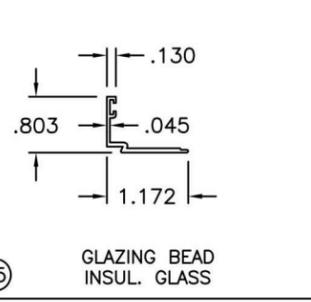
⑤ SIDELITE FRAME JAMB



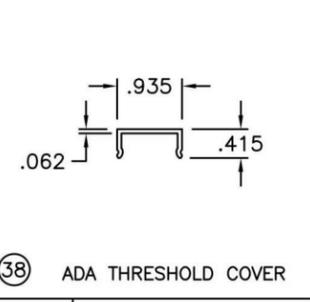
①④ GLAZING BEAD
5/16" LAM. GLASS



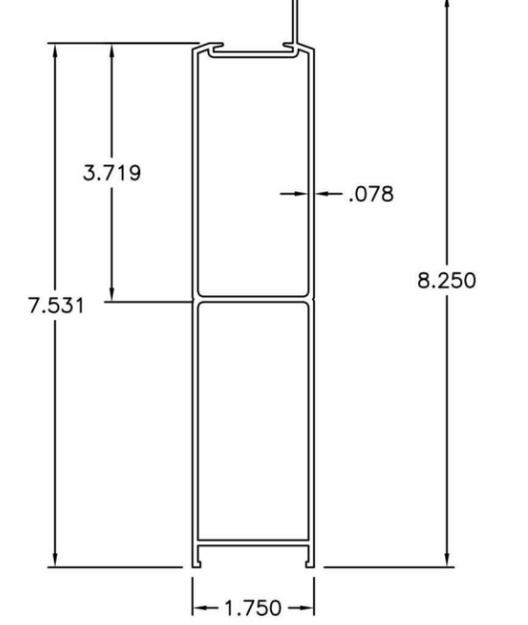
①④A GLAZING BEAD
7/16" LAM. GLASS



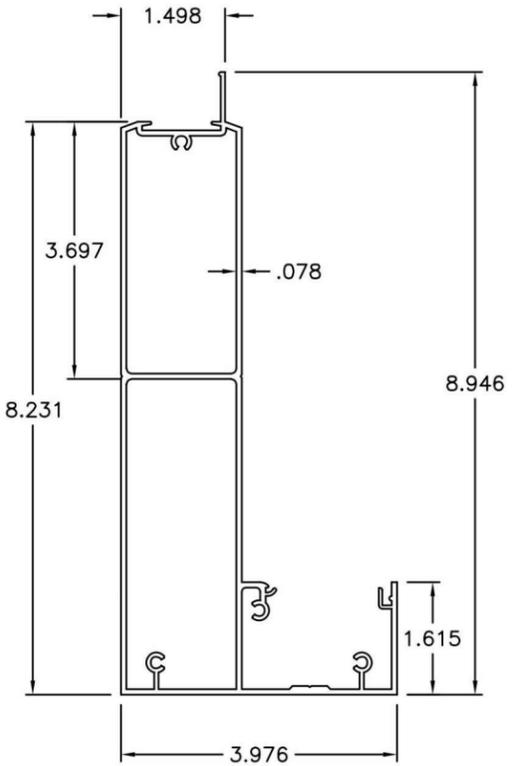
①⑤ GLAZING BEAD
INSUL. GLASS



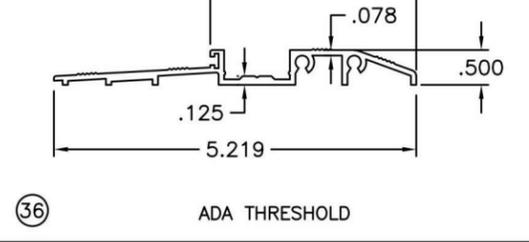
③⑧ ADA THRESHOLD COVER



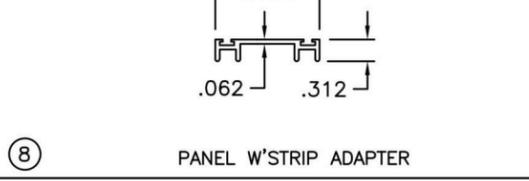
⑦A 9" BOTTOM RAIL



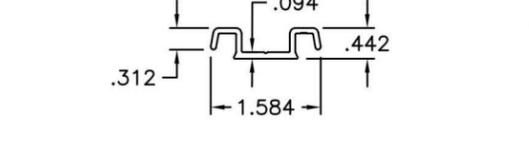
④A 9" BOTTOM RAIL



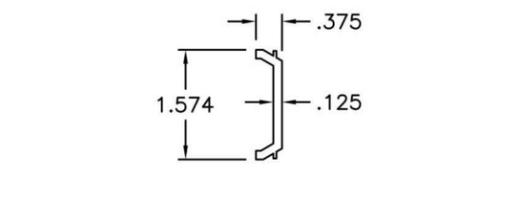
③⑥ ADA THRESHOLD



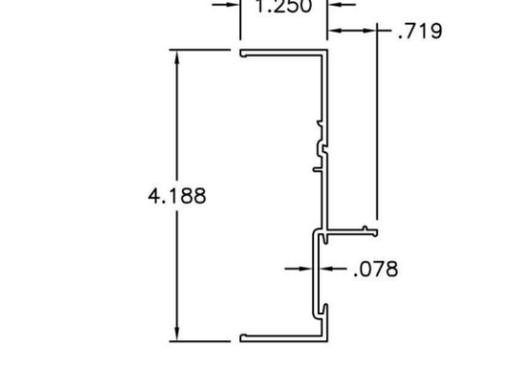
⑧ PANEL W'STRIP ADAPTER



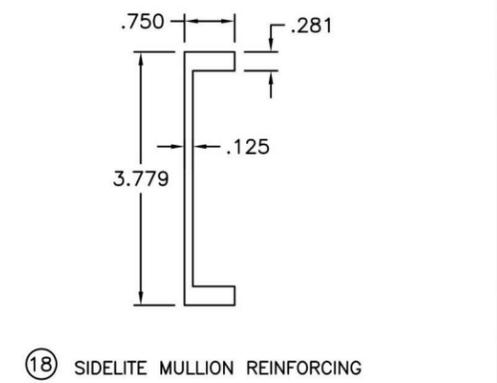
①② PANEL ALIGNMENT BRACKET



①③ PANEL CLAMP



⑥ DOOR FRAME JAMB



①⑧ SIDELITE MULLION REINFORCING

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