

INSTRUCTIONS:
USE DRAWING AS FOLLOWS

1. SELECT SINGLE OR DOUBLE DOORS FROM SHEET 2 OR SINGLE OR DOUBLE DOORS WITH TRANSOM FROM SHEET 3.
2. SELECT DOOR AND FRAME SIZE
3. DETERMINE DP RATING FROM SHEET 2 OR 3.
4. SELECT GLASS TYPE A OR A1 FROM SHEET 1.
5. SELECT LOCK OPTION AND CORRESPONDING MAX. SIZE FROM SHEET 8.
6. SELECT ANCHORING CONDITION AND CORRESPONDING ANCHOR TYPES FROM SHEET 4 THRU 7.

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

**SERIES 810 RESIDENTIAL
ALUMINUM OUT-SWING DOOR**

DOOR APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

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.

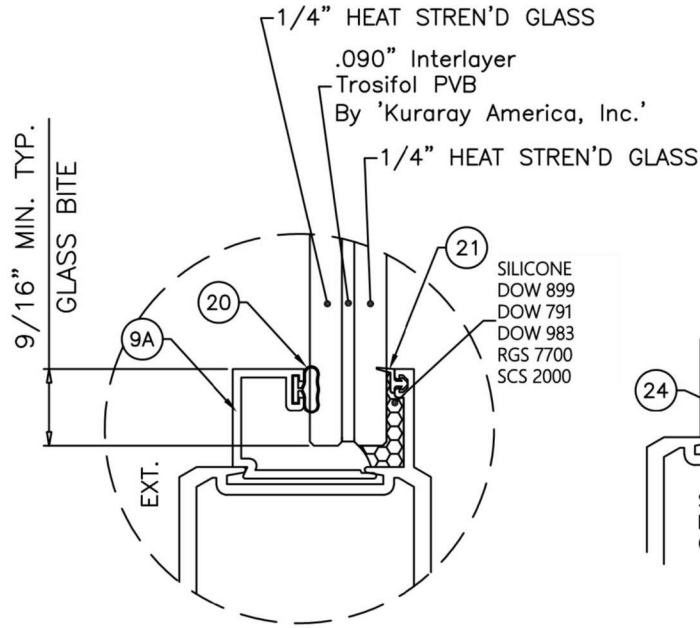
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.

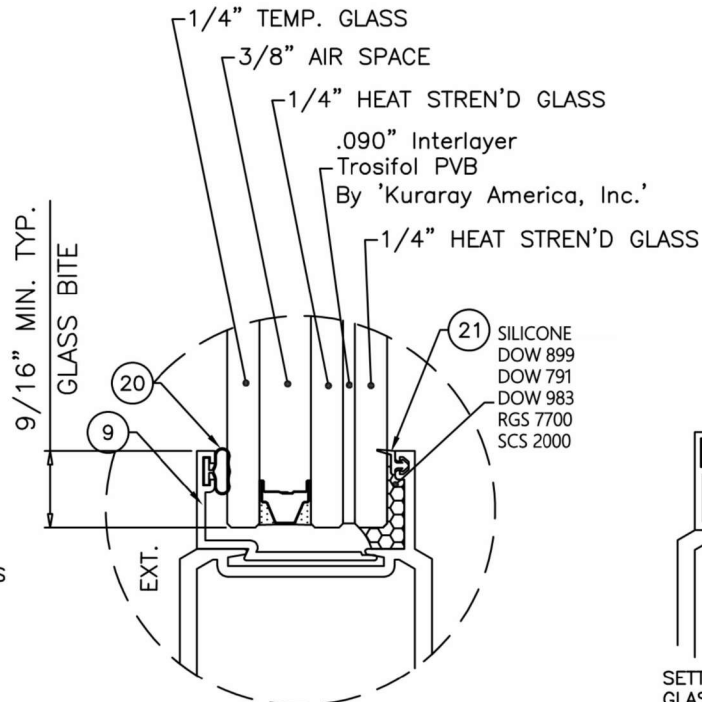
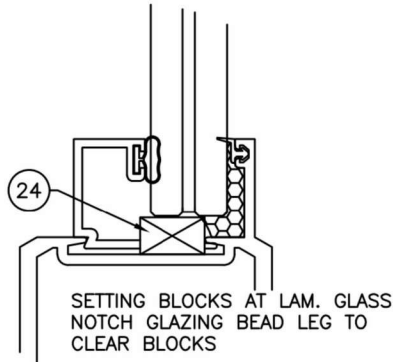
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

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

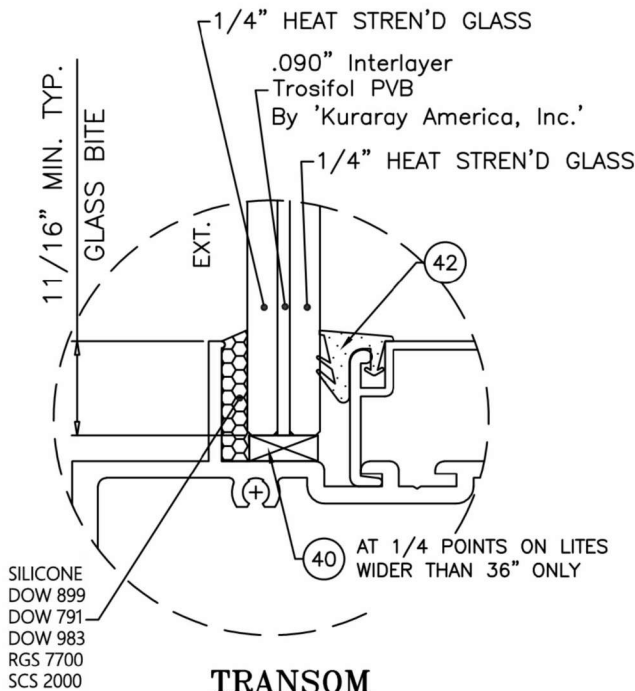
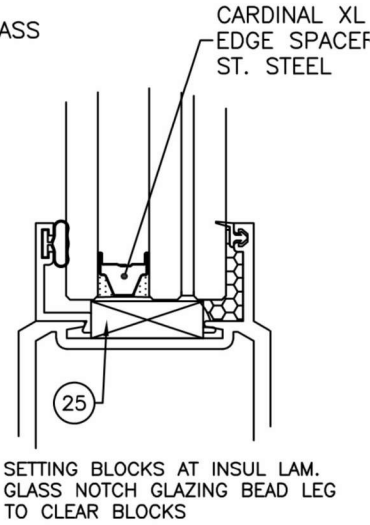
DESIGN LOAD SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.



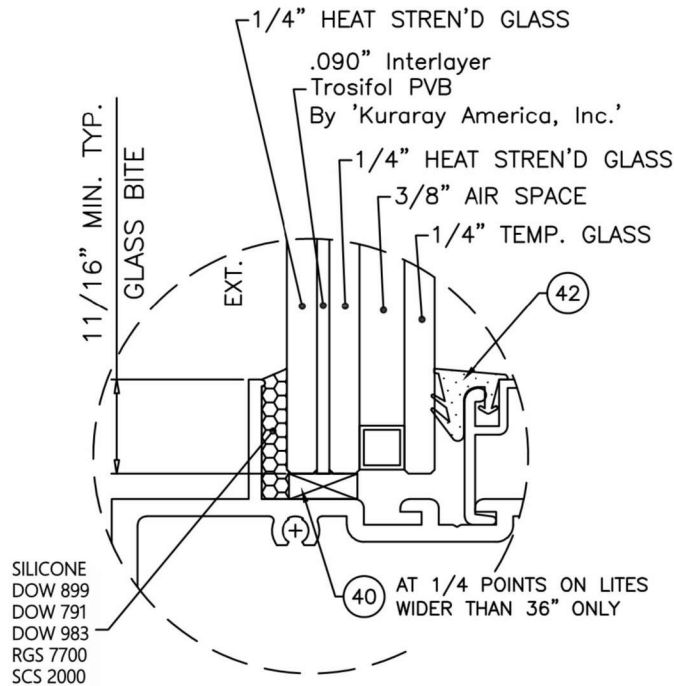
**DOOR LEAF
GLASS TYPE 'A'**



**DOOR LEAF
GLASS TYPE 'A1'**



**TRANSOM
GLASS TYPE 'A'**



**TRANSOM
GLASS TYPE 'A1' (REVERSE)**

GLAZING OPTIONS

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



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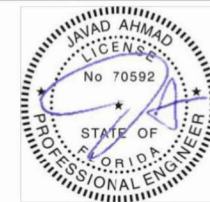
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drawn by:	check by:	BY	DATE	DESCRIPTION	

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(L.M.I.)
LARGE MISSILE IMPACT RATED

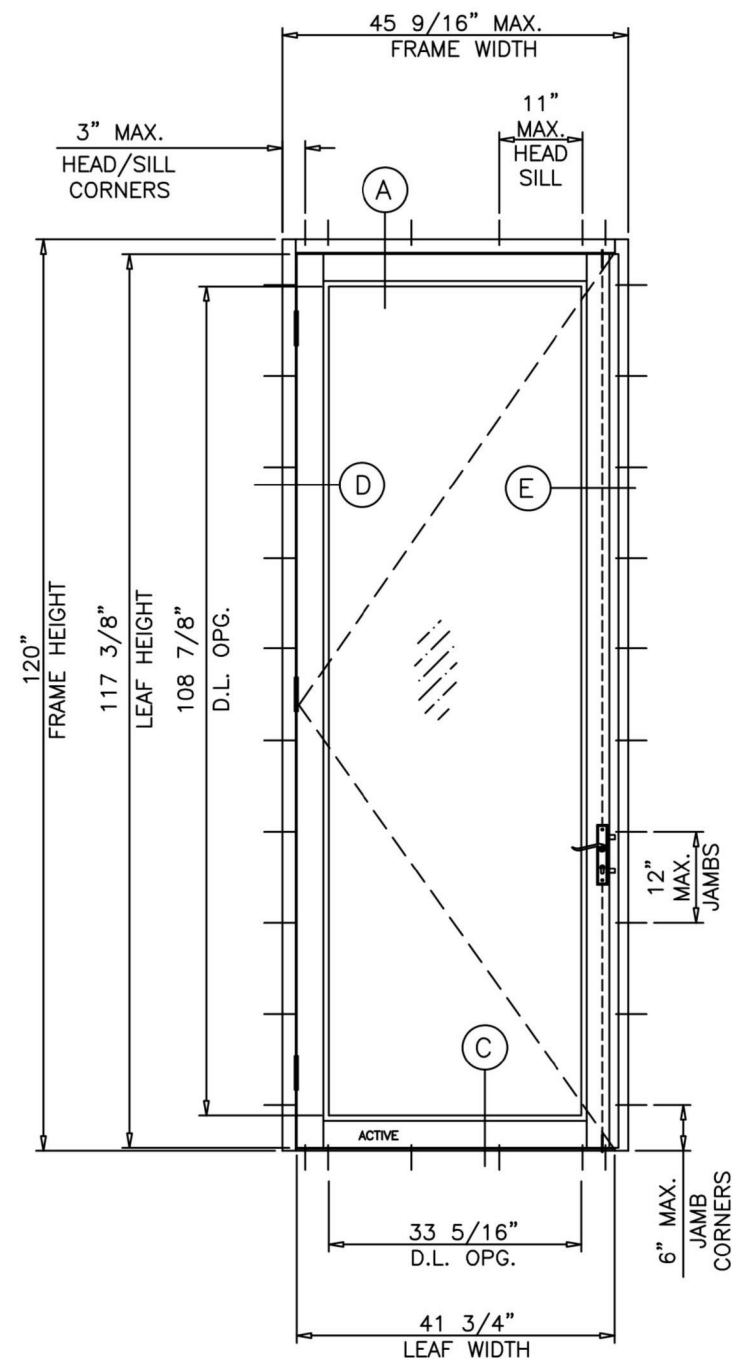


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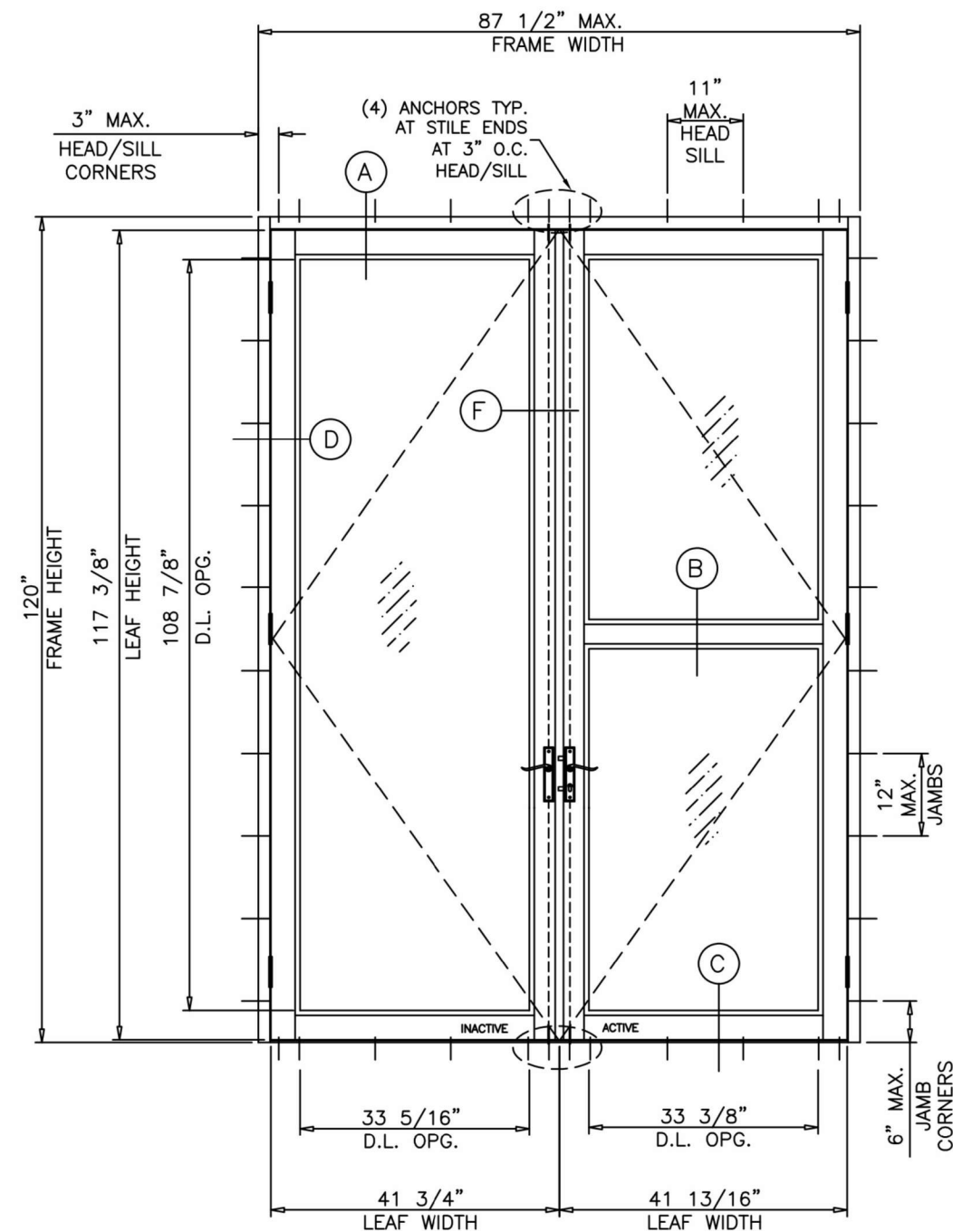


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TYPICAL ELEVATIONS



SINGLE DOOR LOAD CAPACITY - PSF			
FRAME WIDTH	FRAME HEIGHT	POS. (+)	NEG. (-)
42 - 9/16"	108"	80.0	80.0
45 - 9/16"	120"	70.0	70.0

DOUBLE DOOR LOAD CAPACITY - PSF			
FRAME WIDTH	FRAME HEIGHT	POS. (+)	NEG. (-)
81 - 1/2"	108"	80.0	80.0
87 - 1/2"	120"	70.0	70.0

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

SEE SHEET 4 FOR WATER INFILTRATION RESISTANCE LIMITS

GLASS D.L.O. FORMULAE: (DOOR)

D.L.O. WIDTH = FRAME WIDTH - 12.250" (X DOORS)

D.L.O. WIDTH = (FRAME WIDTH - 20.875")/2 (XX DOORS)

D.L.O. HEIGHT = FRAME HEIGHT - 11.125" (4-1/4" BOTTOM RAIL)

= FRAME HEIGHT - 16.875" (10" BOTTOM RAIL)

DOOR LEAF HEIGHT = FRAME HEIGHT - 2.625"



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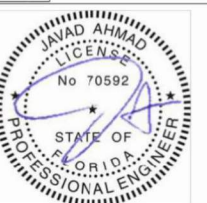
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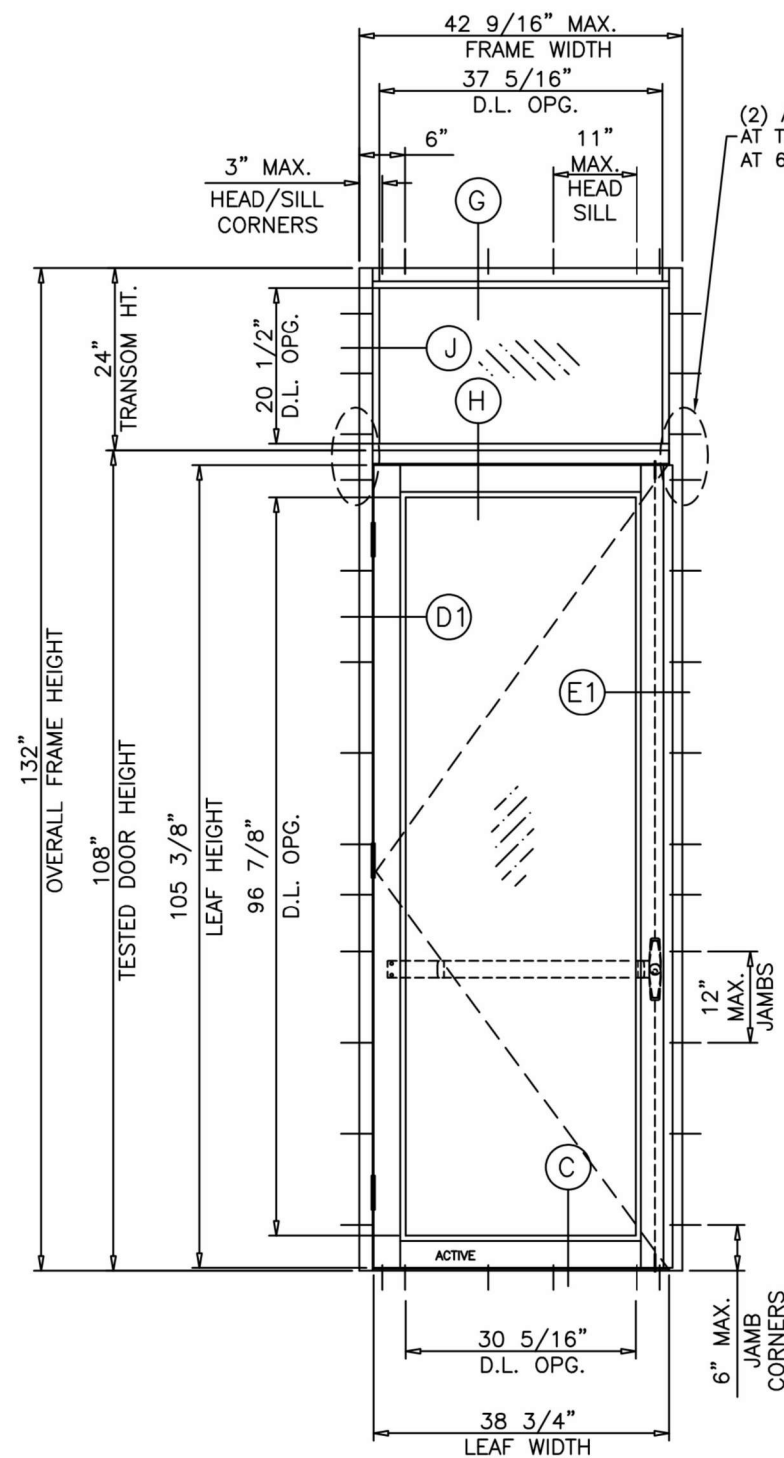


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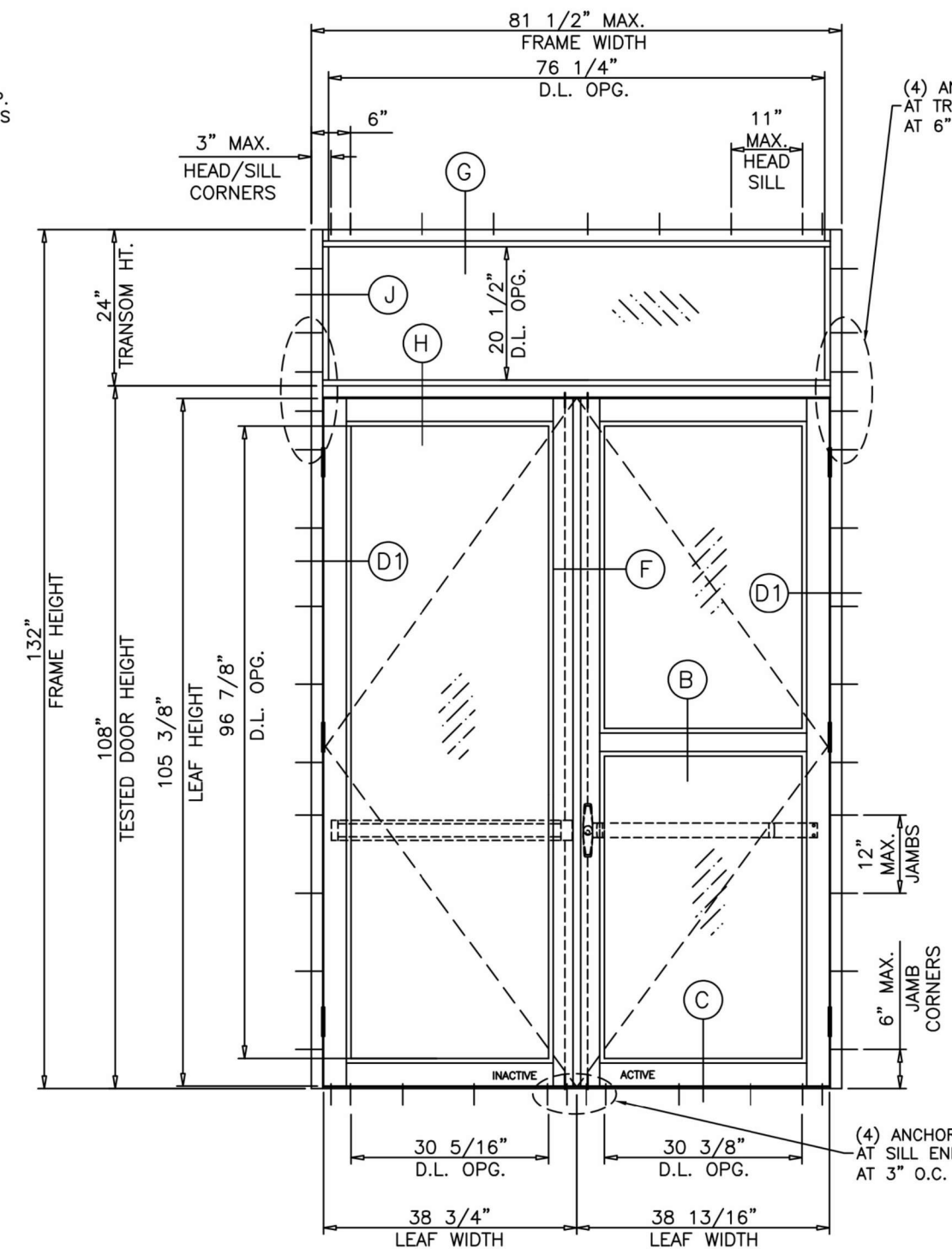


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(2) ANCHORS TYP.
AT TRANSOM ENDS
AT 6" O.C.



(4) ANCHORS TYP.
AT TRANSOM ENDS
AT 6" O.C.

(4) ANCHORS
AT SILL ENDS
AT 3" O.C.

TYPICAL ELEVATION

SINGLE DOORS WITH TRANSOM LOAD CAPACITY - PSF				
FRAME WIDTH	DOOR HEIGHT	TRANSOM HEIGHT	POS. (+)	NEG. (-)
42- 9/ 16"	108"	24"	70.0	80.0
45- 9/ 16"	120"	12"	70.0	70.0

DOUBLE DOORS WITH TRANSOM LOAD CAPACITY - PSF				
FRAME WIDTH	DOOR HEIGHT	TRANSOM HEIGHT	POS. (+)	NEG. (-)
81- 1/ 2"	108"	24"	70.0	80.0
81- 1/ 2"	120"	12"	70.0	70.0

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

GLASS D.L.O. FORMULAE: (TRANSOM)
D.L.O. WIDTH = FRAME WIDTH - 5.250"
D.L.O. HEIGHT = TRANSOM HEIGHT - 5.250"

SEE SHEET 4 FOR WATER INFILTRATION RESISTANCE LIMITS



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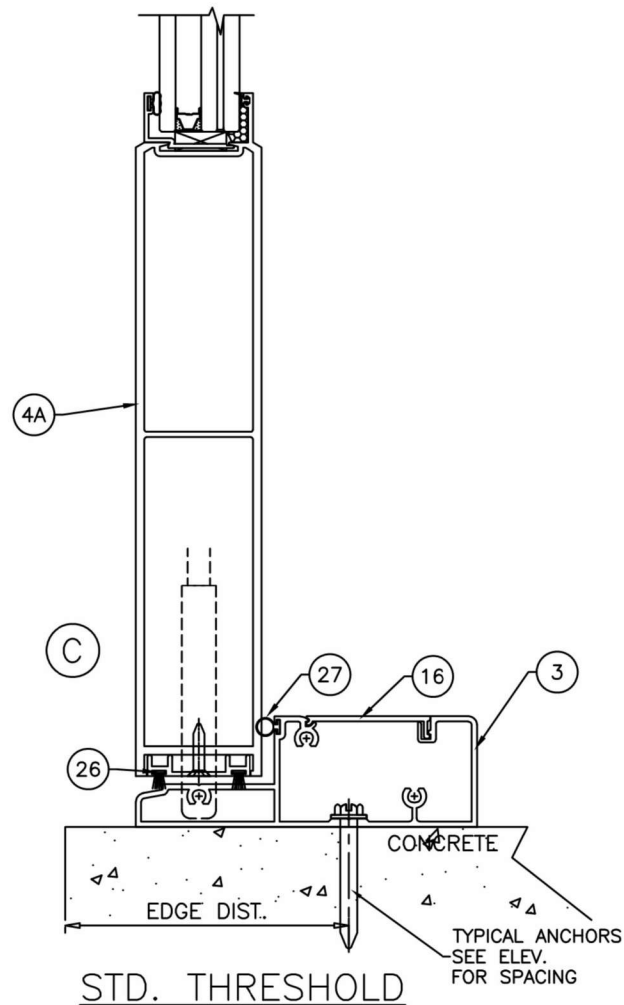
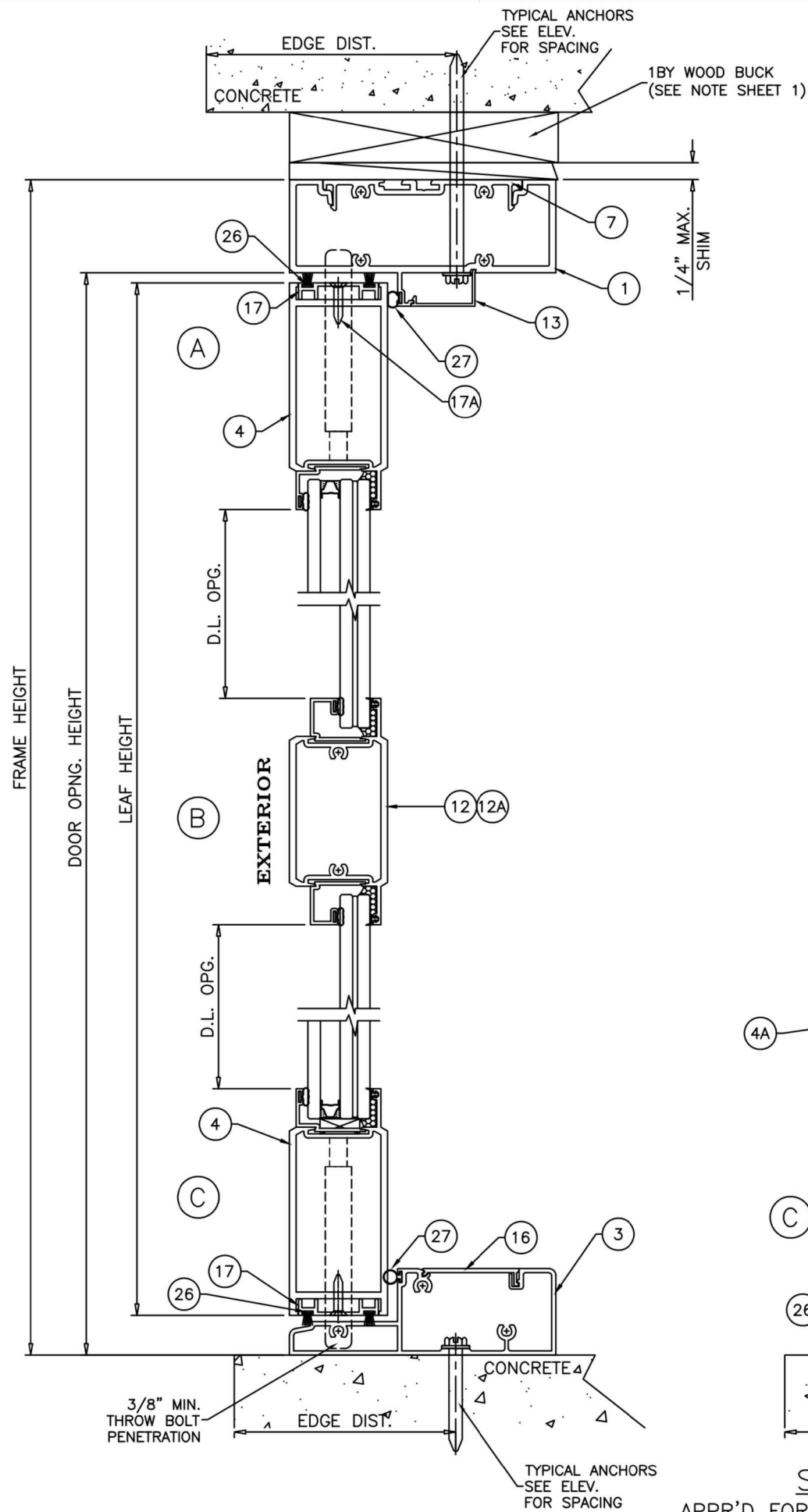
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APPR'D FOR WATER INFILTRATION RESISTANCE
LIMIT MAX. POS. LOADS TO +70.0 PSF FOR INSTALLATIONS
WHERE WATER INFILTRATION RESISTANCE IS REQUIRED

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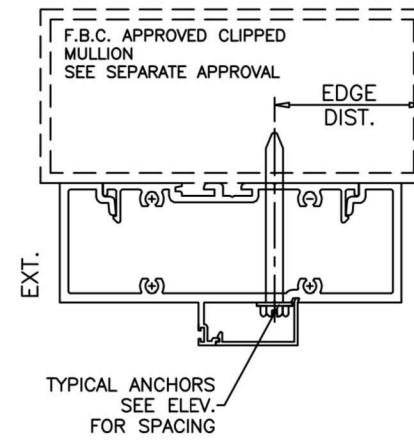
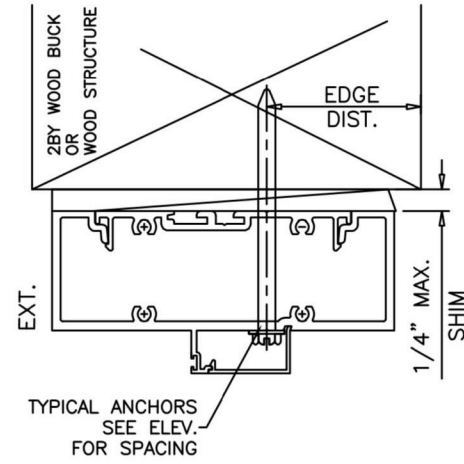
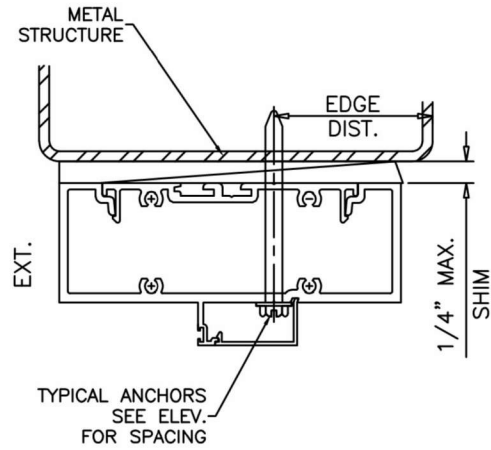
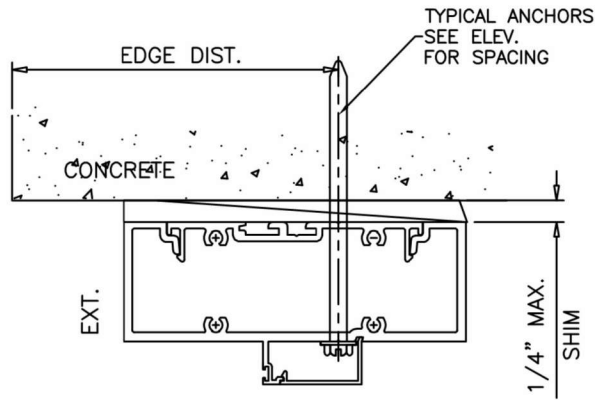
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1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
1/4" DeWalt UltraCon +	Head/Jambs	Southern Pine (SG = 0.55)	1"	1-1/2"
	Head/Jambs	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	1/2"	(3) Threads min. beyond metal thickness
	Head/Jambs	Aluminum 1/8" Thk. Min. (6063-T5)	1/2"	(3) Threads min. beyond metal thickness
	Head/Jambs	Steel 1/8" Thk. Min. (min. 36 ksi)	1/2"	(3) Threads min. beyond metal thickness

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



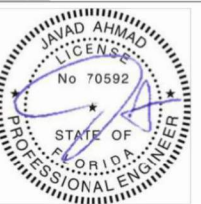
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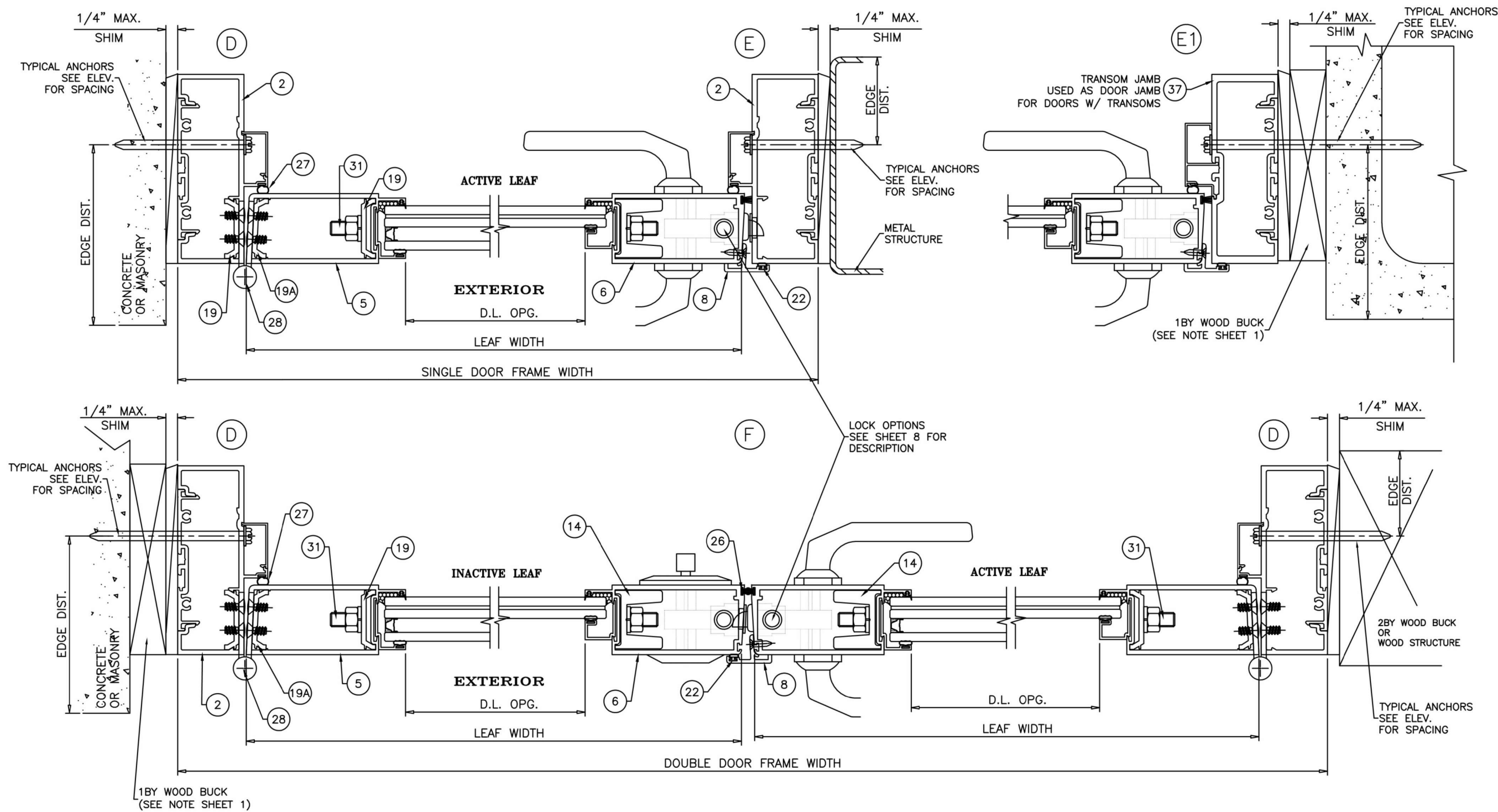
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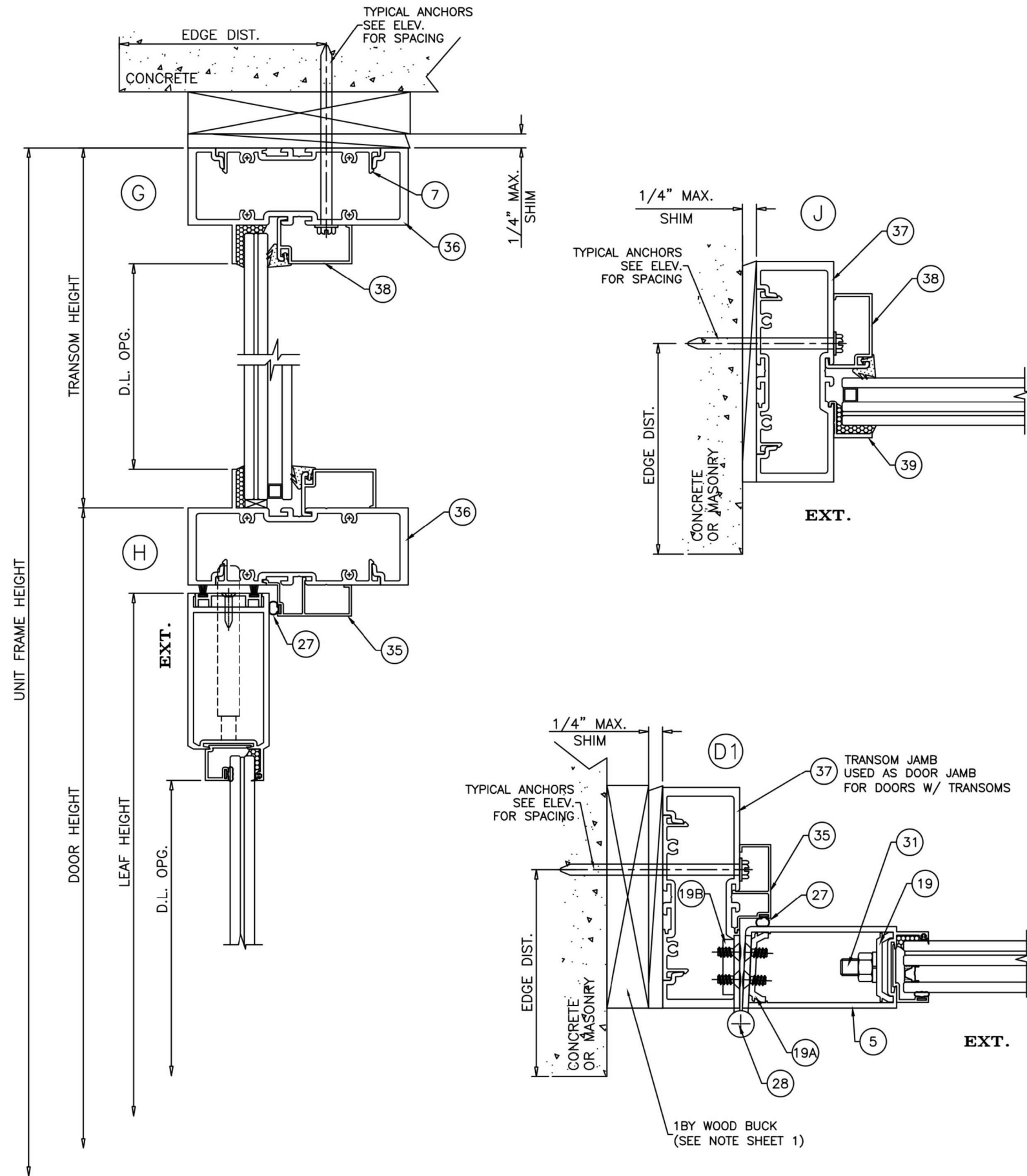
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LOCK OPTIONS:

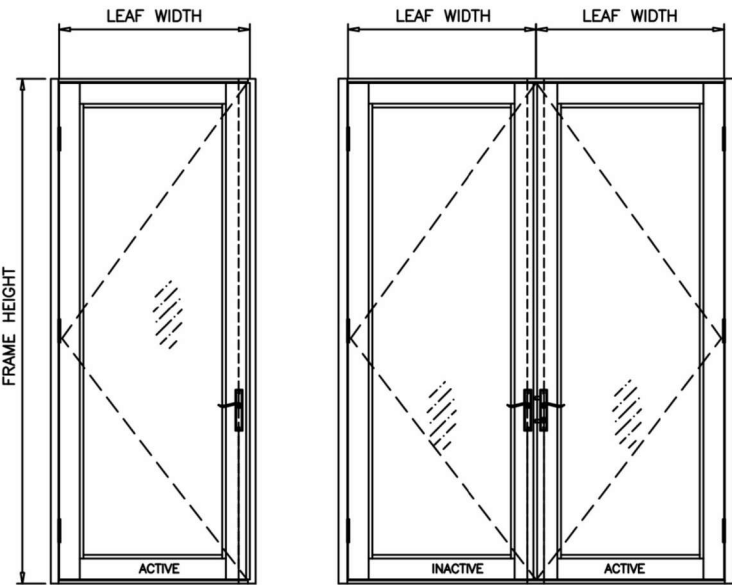
OPTION #1:

ACTIVE LEAF:

3 POINT LOCK SYSTEM BY 'REGENT' AT 42-1/2"
FROM BOTTOM
HANDLE ACTIVATES 6 PLY HOOK LOCK AND SHOOT BOLTS
ENGAGING AT HEAD AND SILL
KEY OPERATED ON EXTERIOR AND THUMB TURN ON
INTERIOR
FASTENED TO ACTIVE LEAF LOCK STILE WITH
(4) #8 X 1/2" FH SMS

INACTIVE LEAF:

2 POINT LOCK ASSEMBLY BY 'REGENT' AT 42-1/2"
FROM BOTTOM
HANDLE ACTIVATES SHOOT BOLTS ENGAGING AT
HEAD AND SILL
FASTENED TO INACTIVE LEAF LOCK STILE WITH
(2) 6-32 X 5/16" PH MACHINE SCREWS



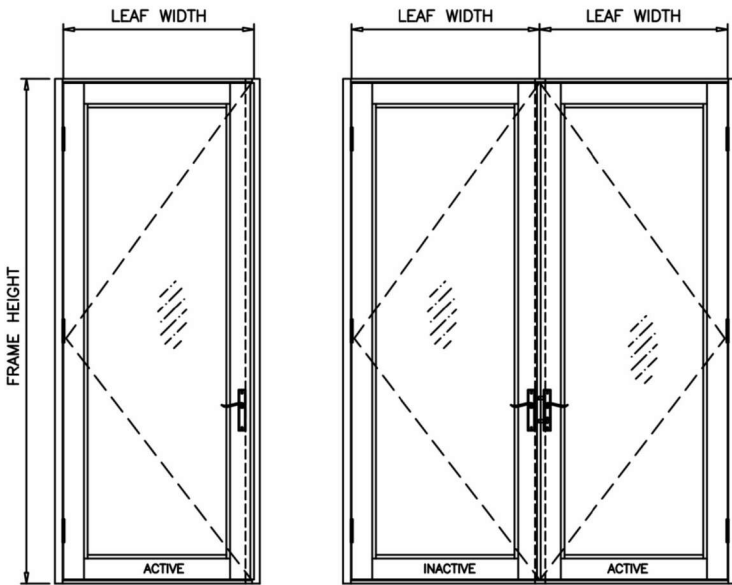
OPTION #2:

ACTIVE LEAF:

4 POINT LOCK SYSTEM BY 'INTERLOCK' AT 42"
FROM BOTTOM
HANDLE ACTIVATES HOOK LOCK AND SHOOT BOLTS
ENGAGING AT HEAD AND SILL
KEY OPERATED ON EXTERIOR AND THUMB TURN ON
INTERIOR
FASTENED TO ACTIVE LEAF LOCK STILE WITH
(2) #8 X 5/16" FH MS
(1) 10-32 X 1-5/8" FH MS

INACTIVE LEAF:

2 POINT LOCK SYSTEM BY 'INTERLOCK' AT 42"
FROM BOTTOM
HANDLE ACTIVATES SHOOT BOLTS ENGAGING AT
HEAD AND SILL
FASTENED TO INACTIVE LEAF LOCK STILE WITH
(2) 8-32 X 2-3/16" OH MS



HINGES:

4-1/2" LONG FLUSH MOUNT STEEL BUTT HINGES BY 'REGENT'
(3) PER LEAF
(1) AT 9" FROM TOP TO CL OF HINGE
(1) AT 7-1/4" FROM OTTOM TO CL OF HINGE
CENTER HINGE EQUALLY SPACED FROM TOP & BOTTOM HINGE
FASTENED WITH 1/4-20 X 1/2" FH MACHINE SCREWS
FOUR PER HASP(LEAF).



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1 DOOR FRAME HEAD

③ STANDARD THRESHOLD

(2) DOOR FRAME JAMB

7 SHEAR CLIP

GLAZING BEAD

GLAZING BEAD

(12B)	INTER. HORIZ. CLEAR BLOCK
-------	------------------------------

13 DOOR FRAME
SNAP COVER

14) ASTRAGAL STIFFENER

18 LEAF ALIGNMENT
BRACKET

○ LEAF CLAMP

(12) INTERMEDIATE HORIZ

15 LOCK BACK-UP PLATE

④ LEAF TOP/BOTTOM RAIL

(5) LEAF HINGE STILE

⑥ LEAF LOOK STYLE

35 W'STRIP ADAPTER
(STANDARD)

④ 10" BOTTOM RAIL



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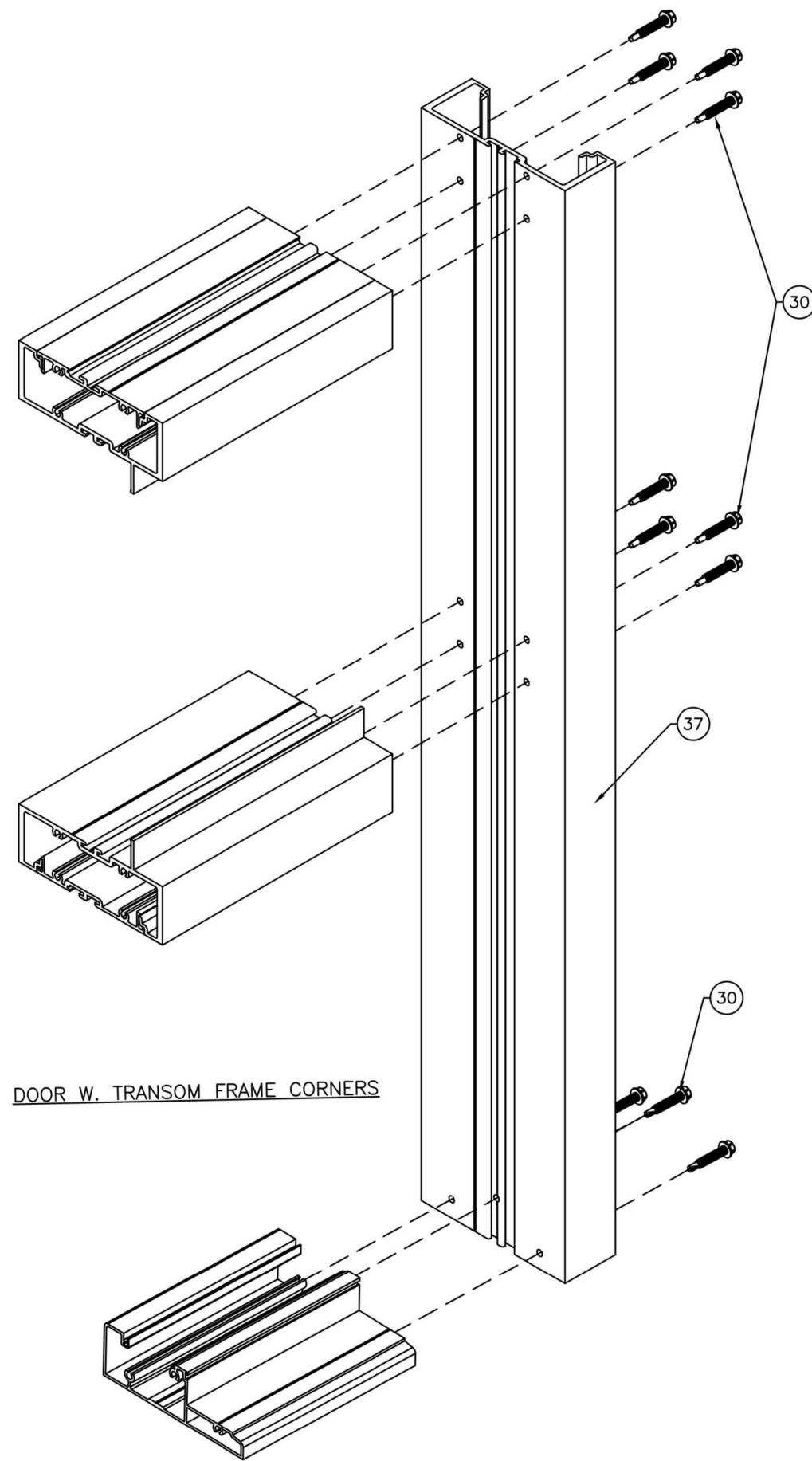
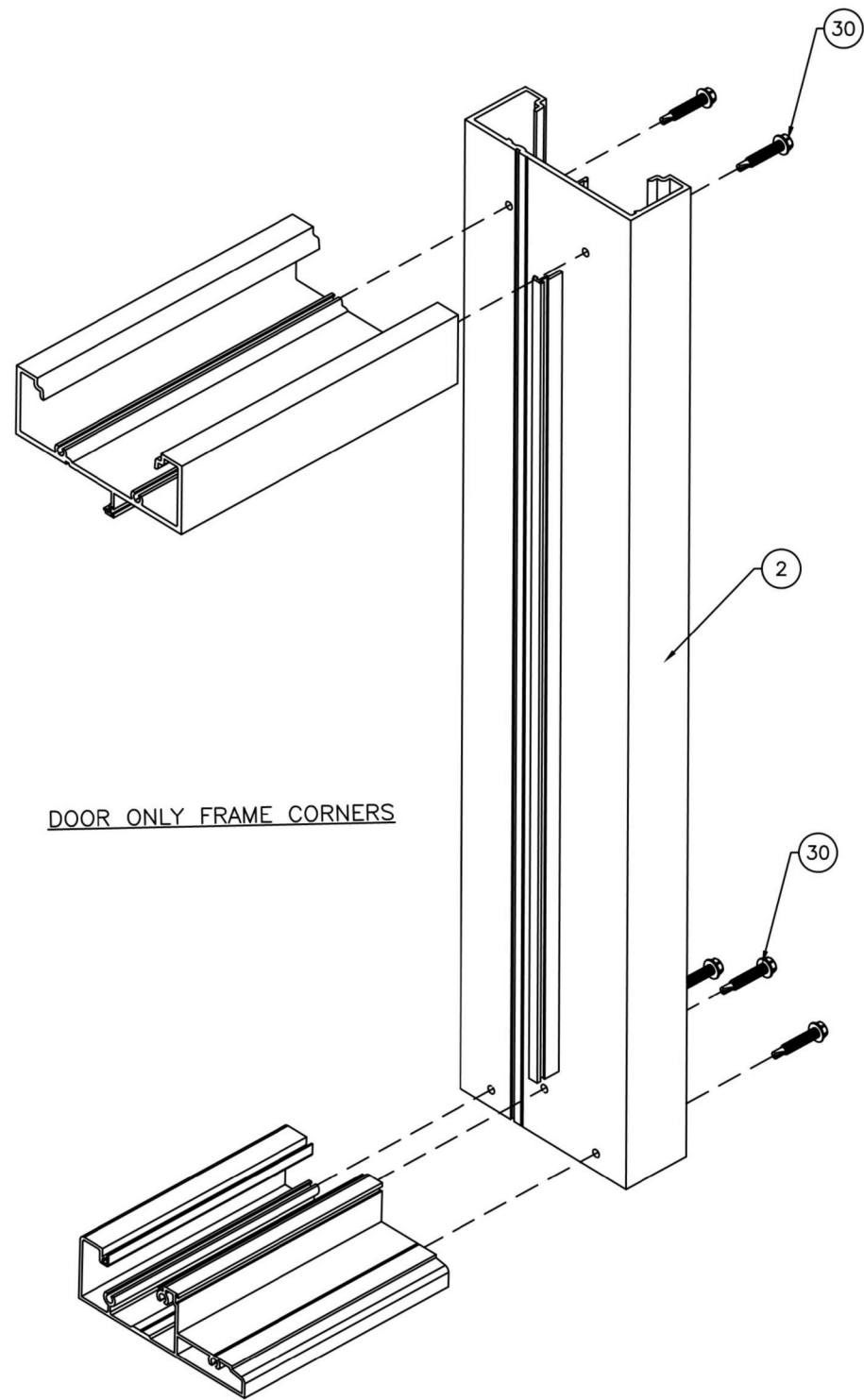


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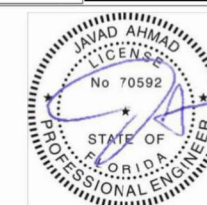
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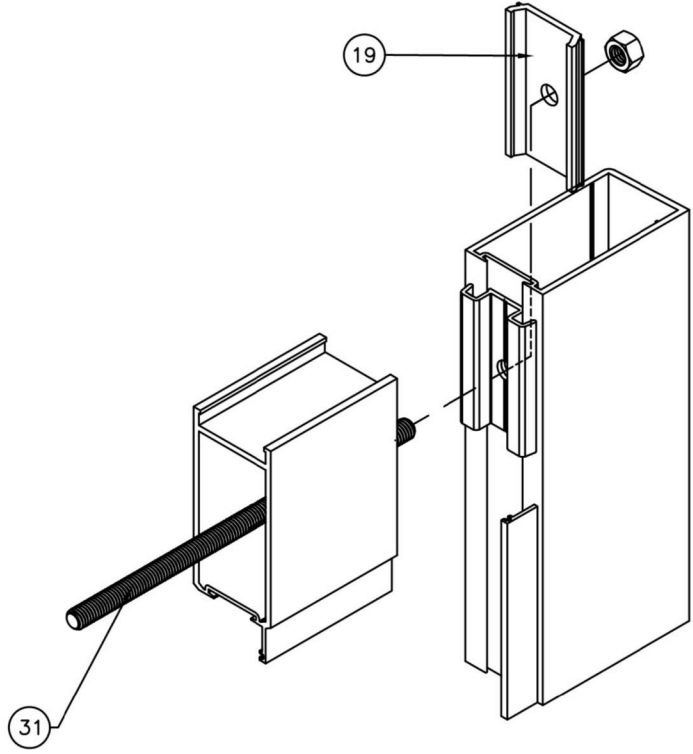


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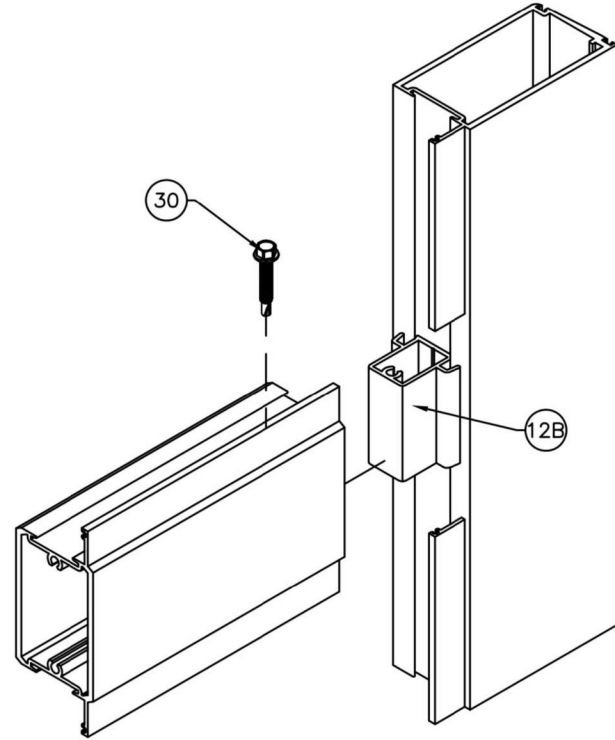
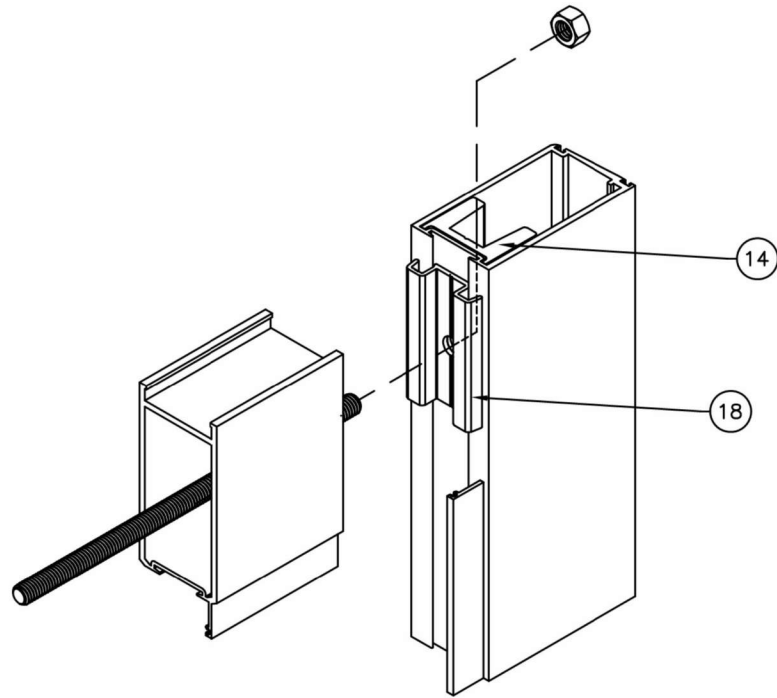


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LEAF TOP/BOTTOM CORNERS



INTERMEDIATE HORIZONTAL CORNERS

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