

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

SERIES 7900
ALUMINUM INSWING ENTRANCE DOOR

APPROVAL APPLIES TO SINGLE (X) AND DOUBLE (XX) LEAF DOORS
WITH SIDELITES AND TRANSOM.

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 2020 (7TH 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.

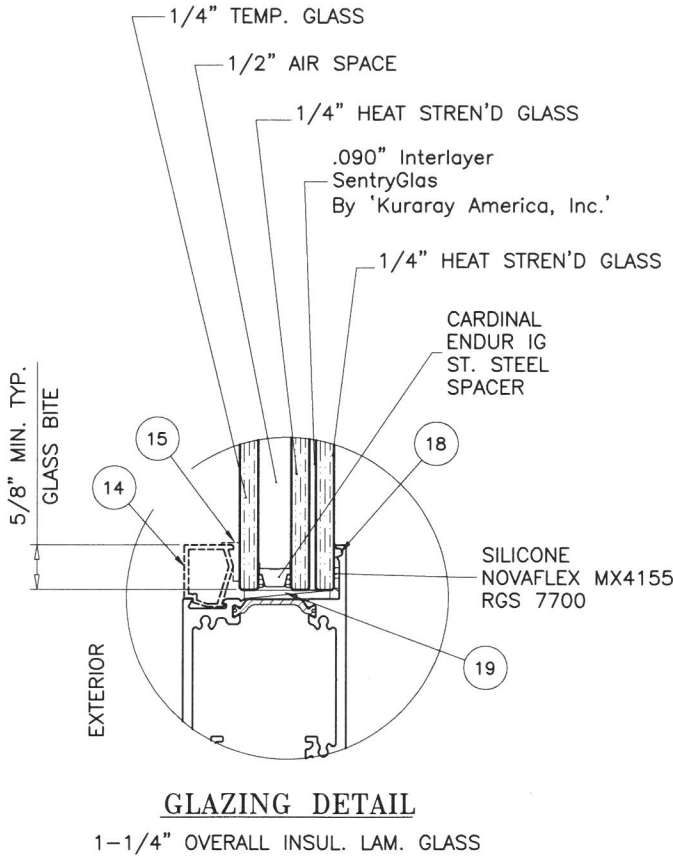
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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 2020 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.



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

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
(C.A.N. 3538)

Series 7900 Aluminum Inswing Door (L.M.I.)

Western Window Systems
2200 E. Riverview Drive
Phoenix, AZ. 85034
Tel: (877) 268-1300 Fax: (876)



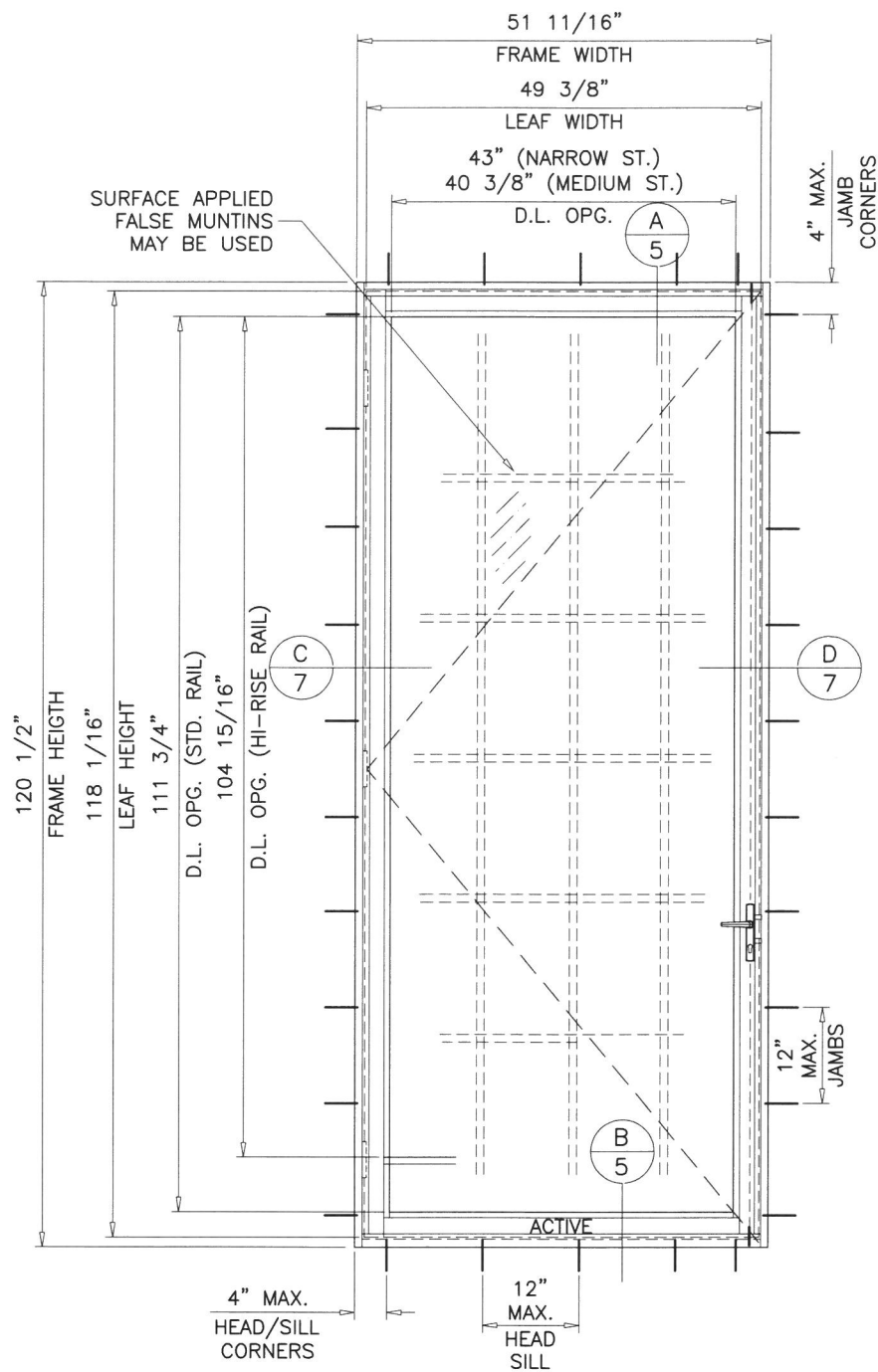
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B	09.28.20	CM	UPDATED TO 2020 FBC	

date:	06-20-19
scale:	3/8" = 1"
dr. by:	CM
chk. by:	

drawing no.
19-57F

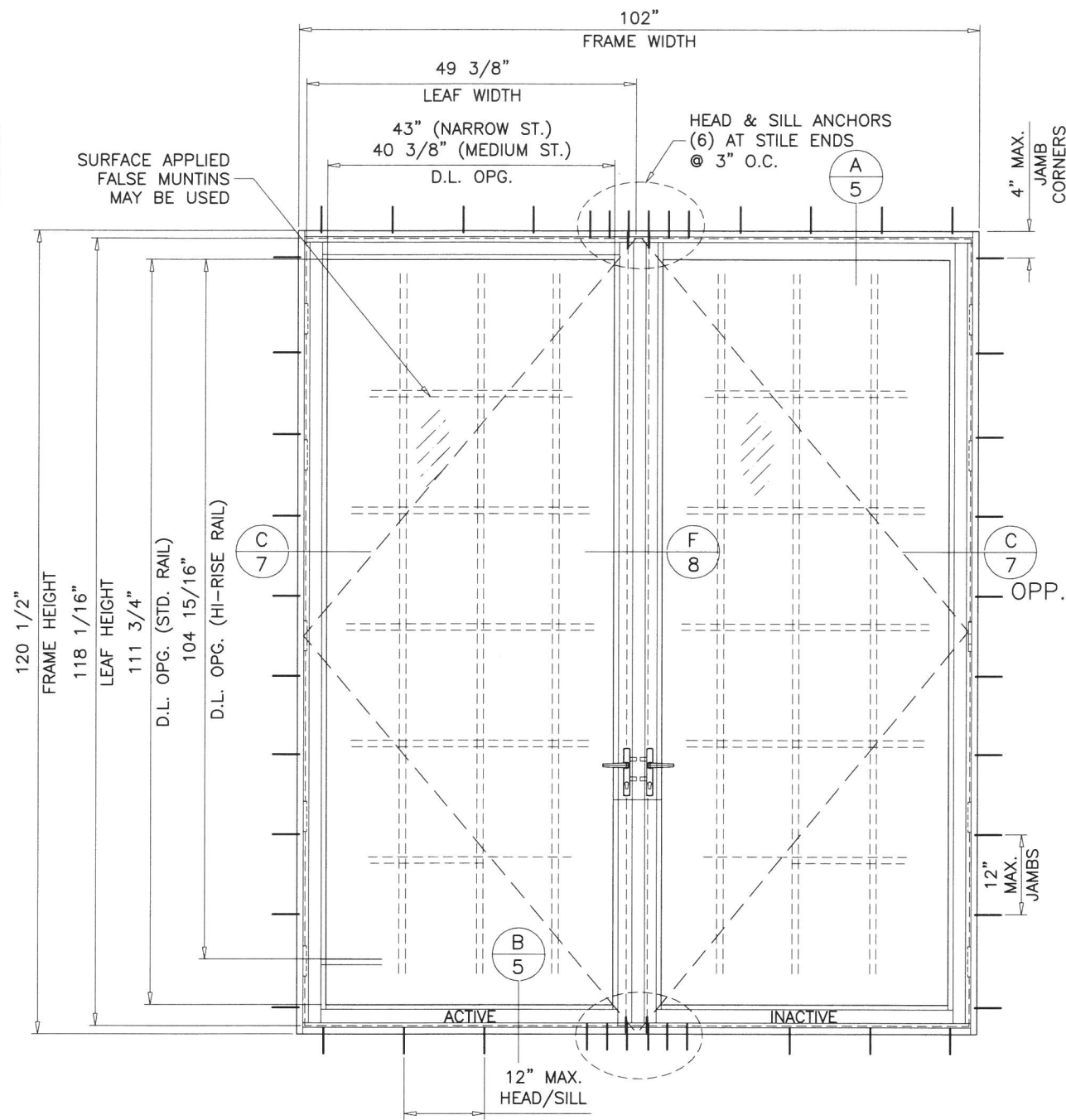
sheet 1 of 13

COMP-ANL\19-57F-WWS



TYPICAL ELEVATION
(X)
STD. SILL

SINGLE DOORS LOAD CAPACITY - PSF STANDARD SILL					
FRAME		LEAF		EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT		
51 11/16"	120 1/2"	49 3/8"	118 1/16"	40.0	40.0
51 11/16"	96"	49 3/8"	93 9/16"	70.0	70.0



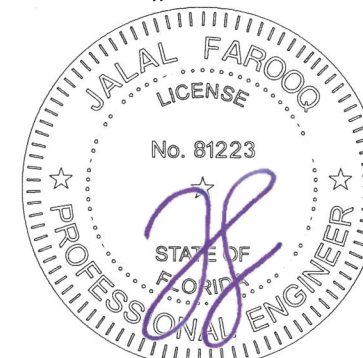
TYPICAL ELEVATION
(XX)
STD. SILL

DOUBLE DOORS LOAD CAPACITY - PSF STANDARD SILL					
FRAME		LEAF		EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT		
102"	120 1/2"	49 3/8"	118 1/16"	33.3	33.3
102"	108"	49 3/8"	105 9/16"	37.0	37.0
102"	96"	49 3/8"	93 9/16"	70.0	70.0

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

*DOORS 7900 SERIES WITH STANDARD FRAME OPTION SHOWN.
FOR OTHER HEAD & JAMB OPTIONS SEE SHEETS 5, 7 & 9.

Sealed: 10/2/2020

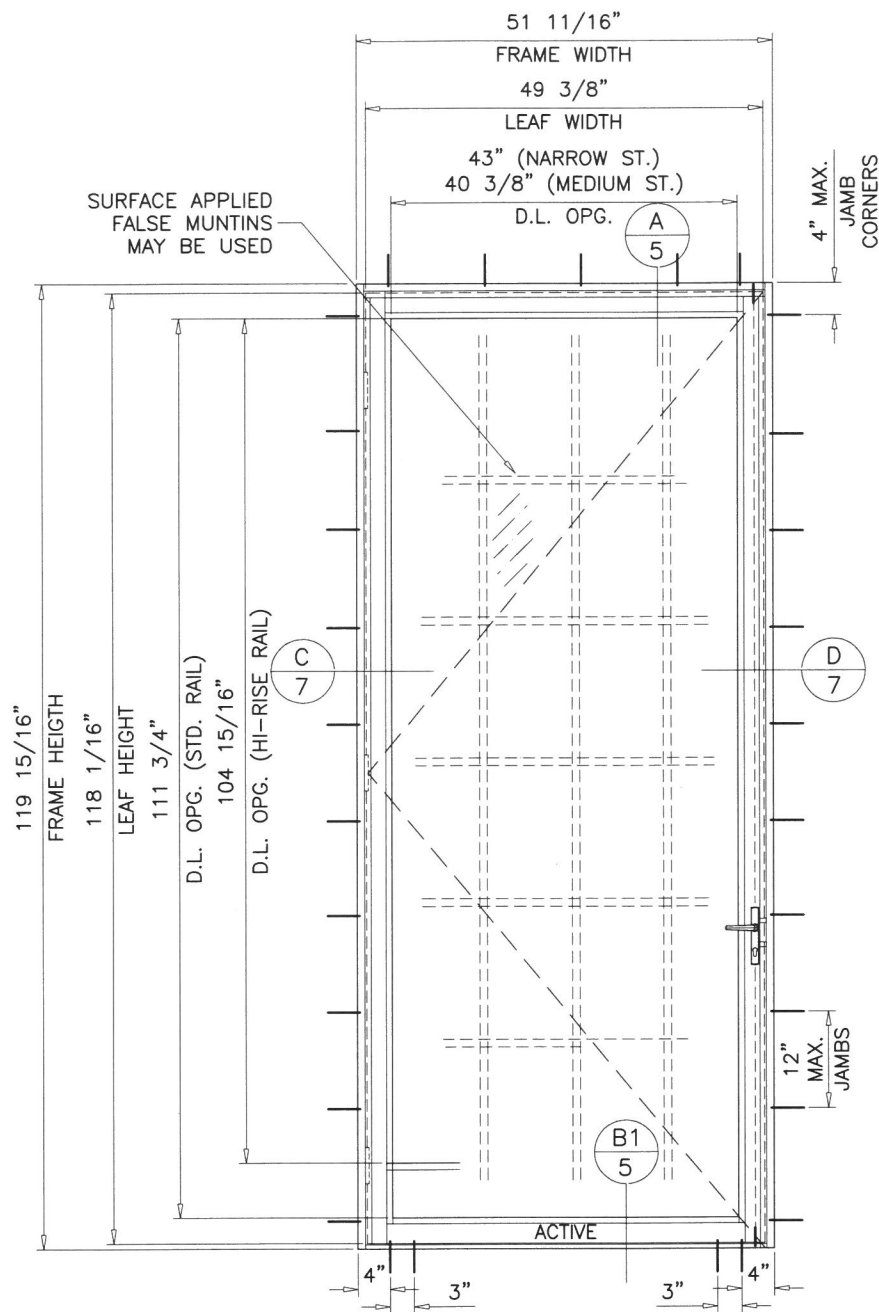


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		09.28.20	CM	UPDATED TO 2020 FBC	
date:	06-20-19	scale:	1/2"=1'-0"	dr. by:	CM
chk. by:					
drawing no.		19-57F			
sheet		2 of 13			

COMP-ANL\19-57F-WWS

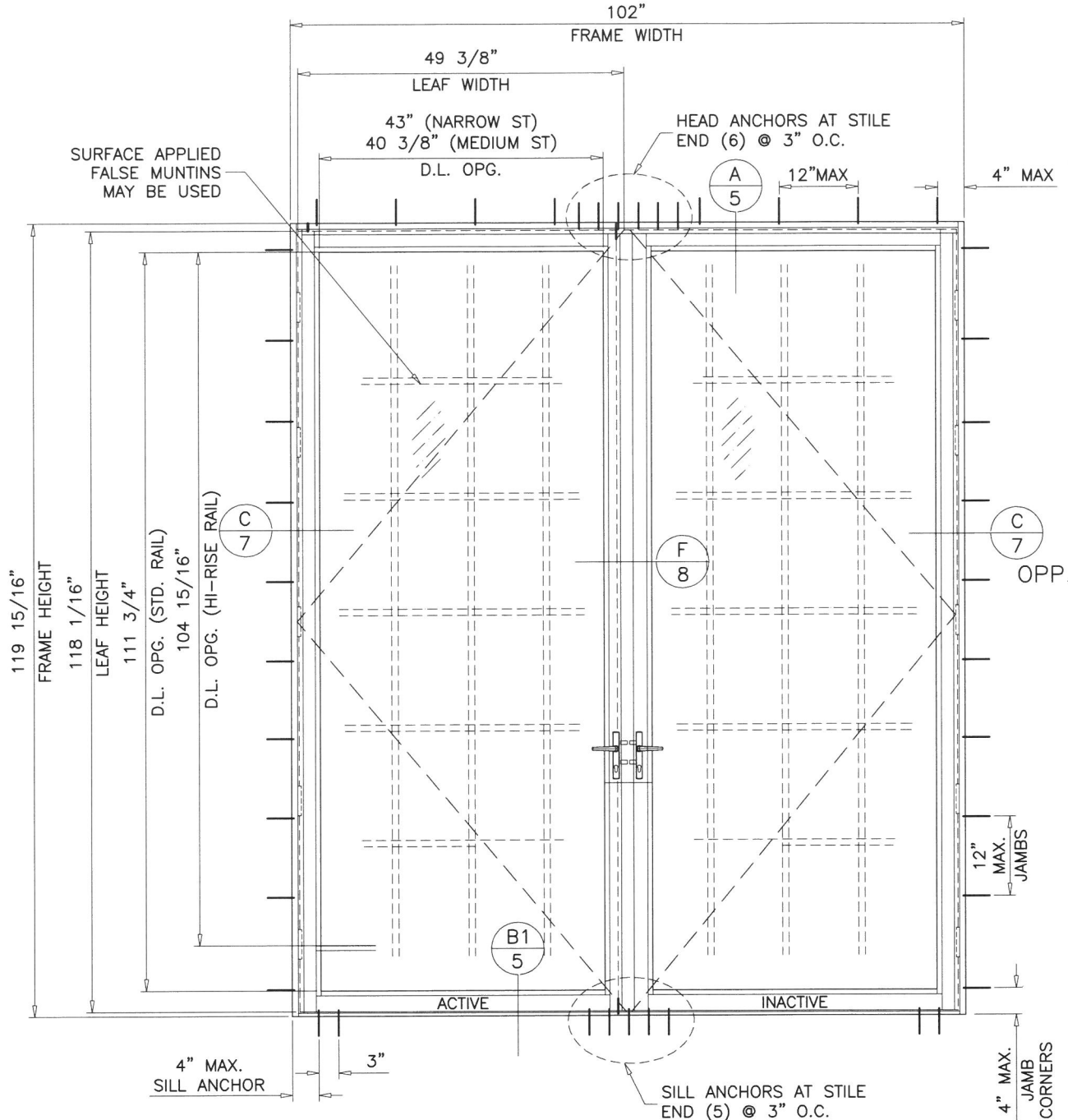


TYPICAL ELEVATION
(X)
COMMERCIAL SILL

SINGLE DOORS LOAD CAPACITY - PSF COMMERCIAL SILL					
FRAME		LEAF		EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT		
51 11/16"	119 15/16"	49 3/8"	118 1/16"	40.0	40.0
51 11/16"	95 7/16"	49 3/8"	93 9/16"	70.0	70.0

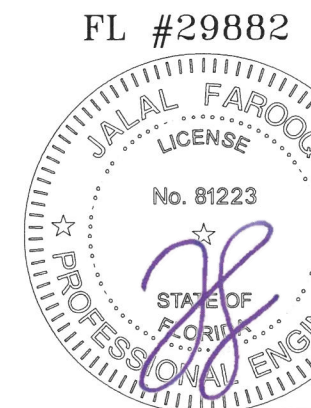
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FOR OTHER HEAD & JAMB OPTIONS SEE SHEETS 5, 7 & 9.



TYPICAL ELEVATION
(XX)
COMMERCIAL SILL

DOUBLE DOORS LOAD CAPACITY - PSF COMMERCIAL SILL					
FRAME		LEAF		EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT		
102"	119 15/16"	49 3/8"	118 1/16"	33.3	33.3
102"	107 7/16"	49 3/8"	105 9/16"	37.0	37.0
102"	95 7/16"	49 3/8"	93 9/16"	70.0	70.0



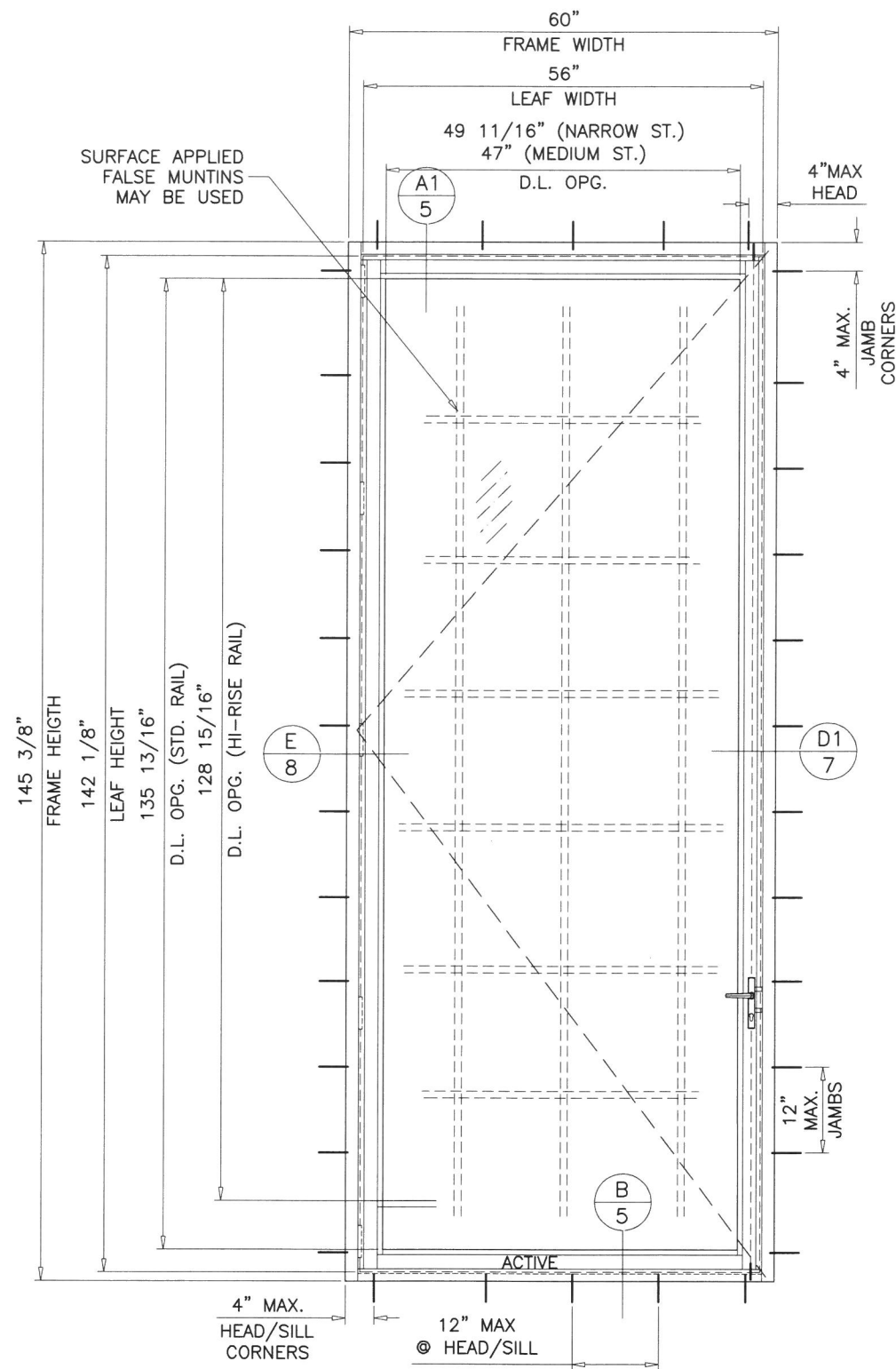
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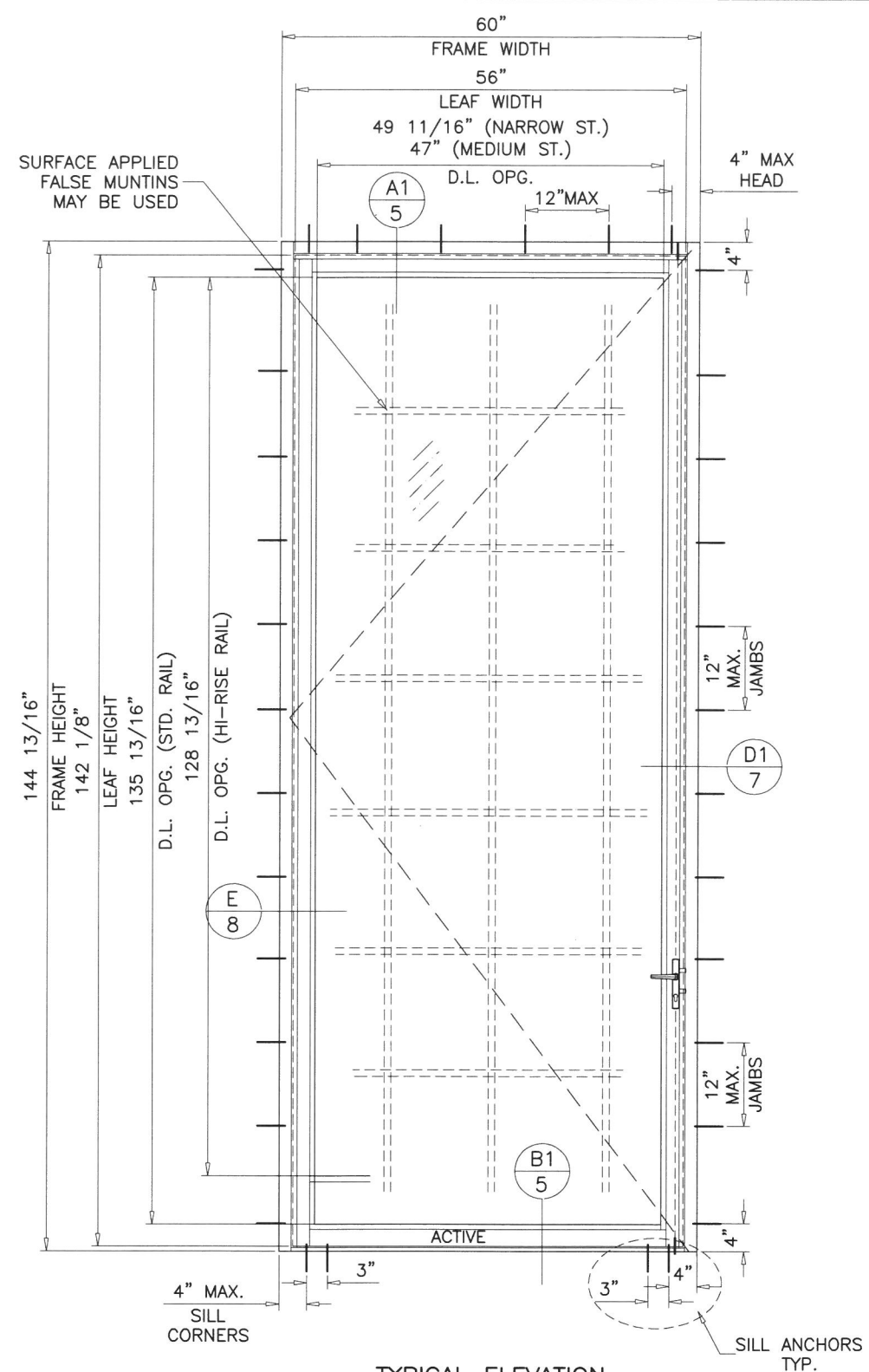
Series 7900 Aluminum Inswing Door (L.M.I.)
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date:	06-20-19	scale:	1/2"=1'-0"	dr. by:	CM
chk. by:		drawing no.	19-57F	sheet	3 of 13

COMP-ANL\19-57F-WWS



TYPICAL ELEVATION
STD. SILL



TYPICAL ELEVATION
COMMERCIAL SILL

SINGLE DOORS LOAD CAPACITY - PSF HEAVY DUTY JAMB						
SILL TYPE	FRAME		LEAF		EXT.(+)	INT.(-)
	WIDTH	HEIGHT	WIDTH	HEIGHT		
STANDARD	60"	126"	56"	122 3/4"	40.0	40.0
STANDARD	60"	145 3/8"	56"	142 1/8"	35.0	35.0
COMMERCIAL	60"	125 7/16"	56"	122 3/4"	40.0	40.0
COMMERCIAL	60"	144 13/16"	56"	142 1/8"	35.0	35.0

*HEAVY DUTY FRAME OPTION SHOWN. DOORS TO USE H.DUTY JAMBS ONLY. FOR OTHER HEAD OPTIONS SEE SHEET 5.

NOTE:
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AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

FL #29882

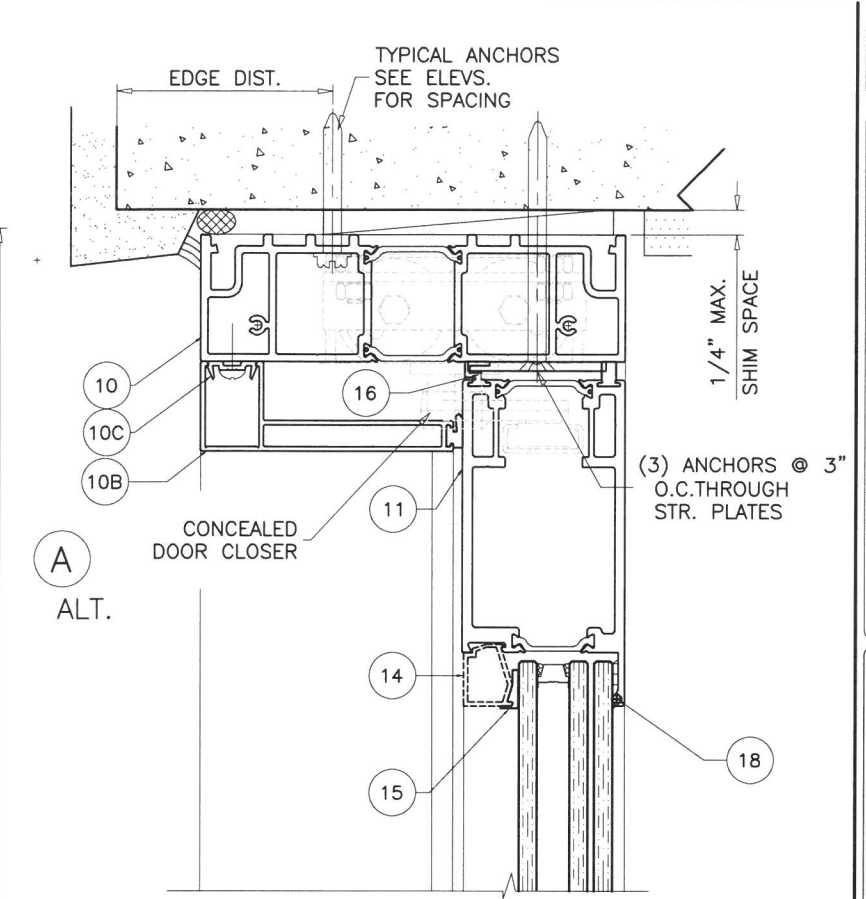
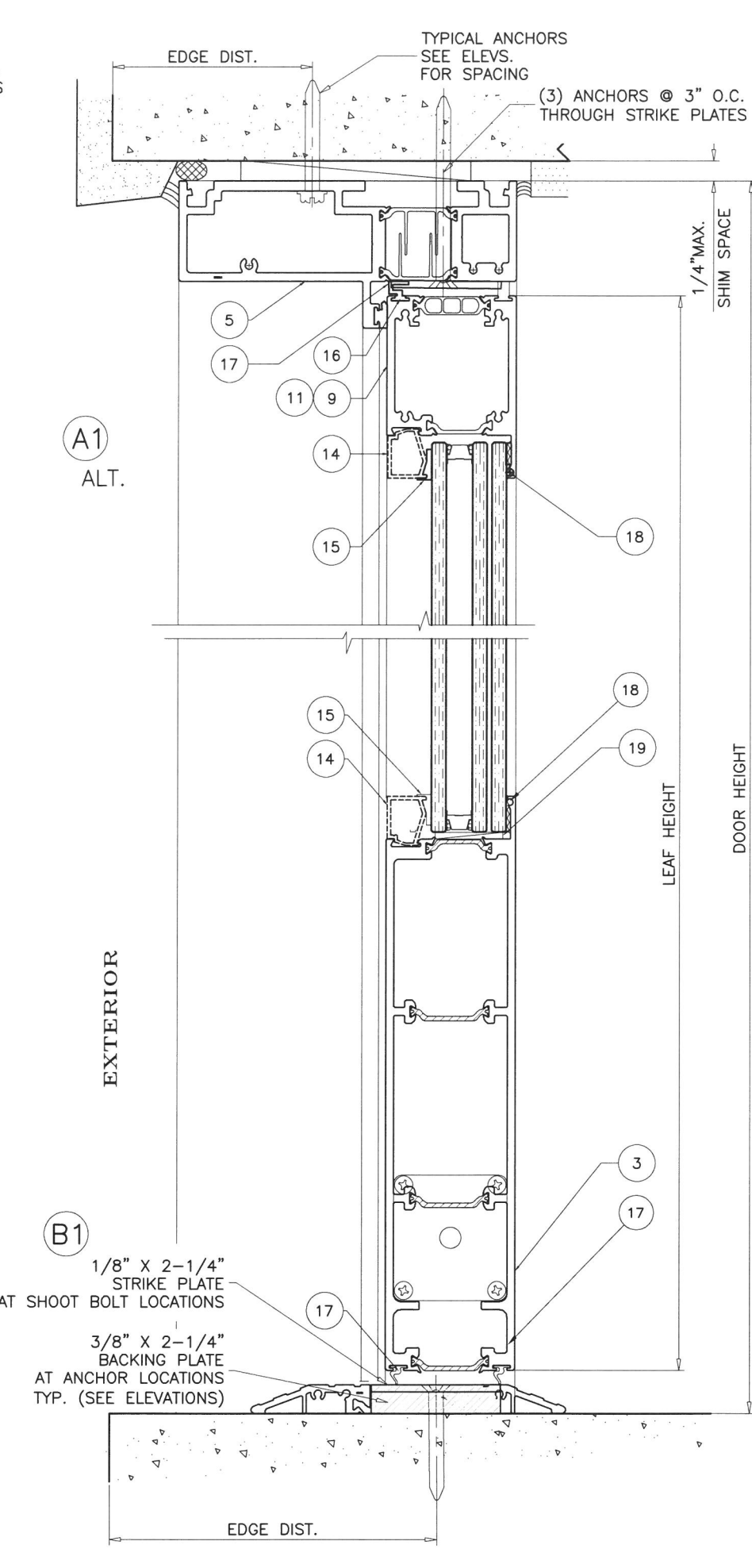
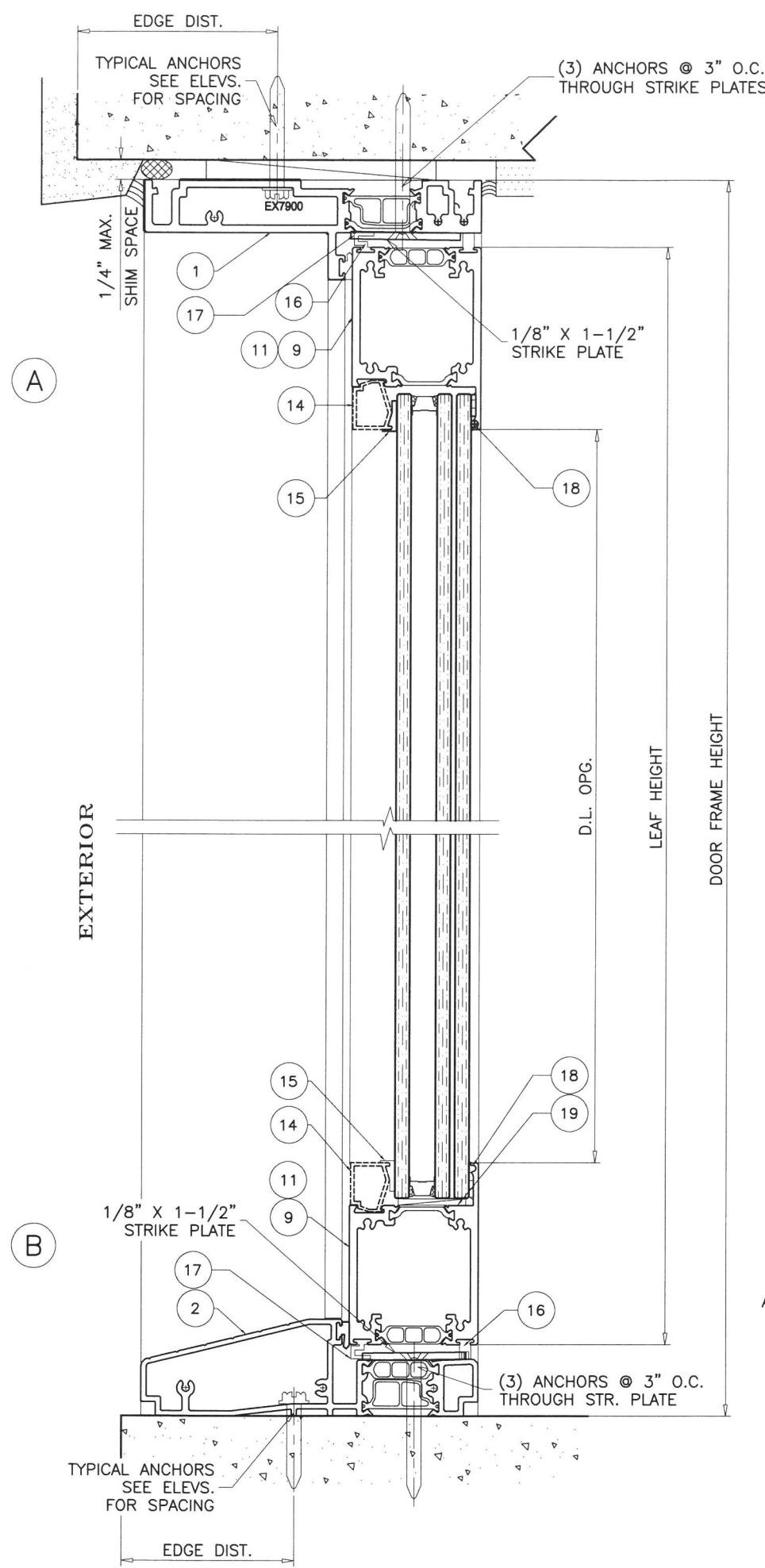


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drawing no.	19-57F			
sheet	4 of 13			



DOOR DETAILS

FL #29882

Sealed: 10/2/2020

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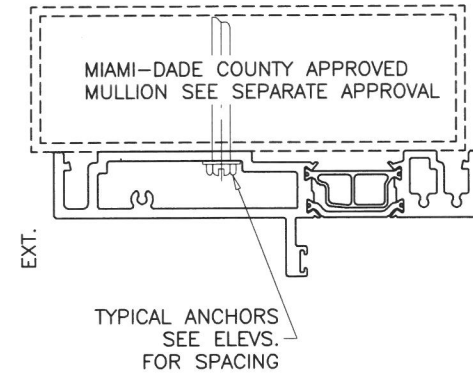
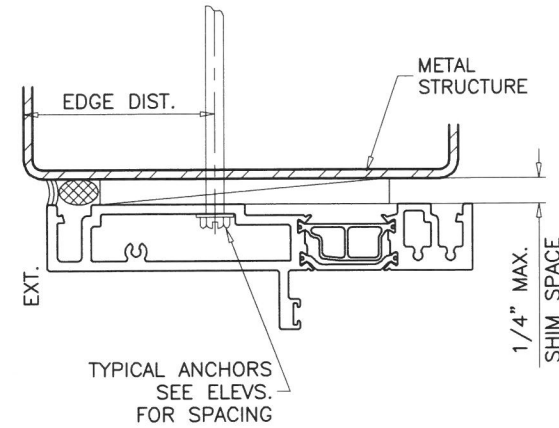
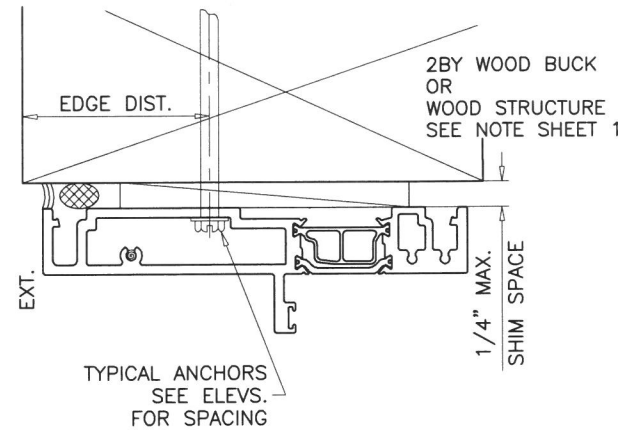
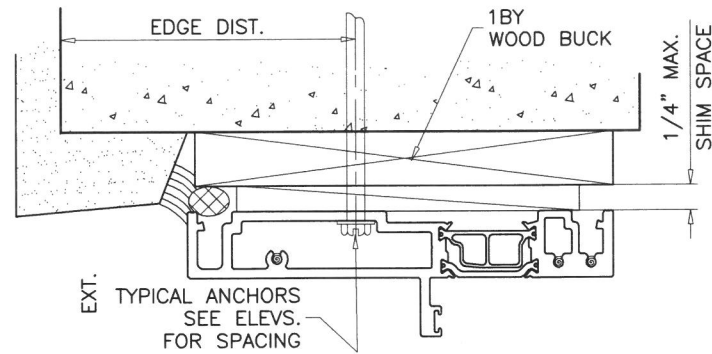
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date: 06-20-19	scale: 3/8" = 1"	dr. by: CM	chk. by:	drawing no. 19-57F
				sheet 5 of 13



WOOD BUCKS AND METAL STRUCTURE NOT BY WESTERN WINDOW 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 '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/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

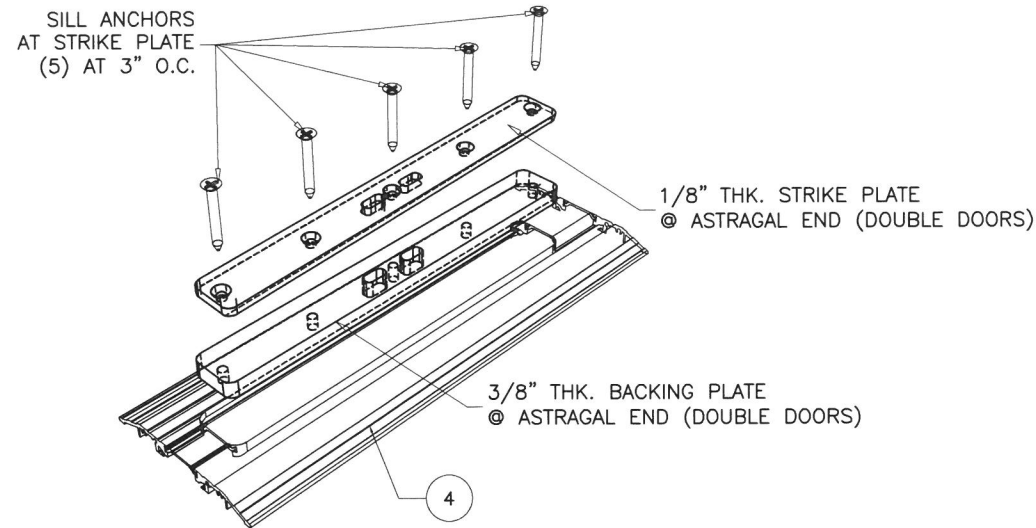
1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

INTO MIAMI-DADE COUNTY 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 OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



STRIKE PLATES COMMERCIAL SILL DETAIL

DOOR DETAILS

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COMP-ANL\19-57F-WWS

Series 7900 Aluminum Inswing Door (L.M.I.)

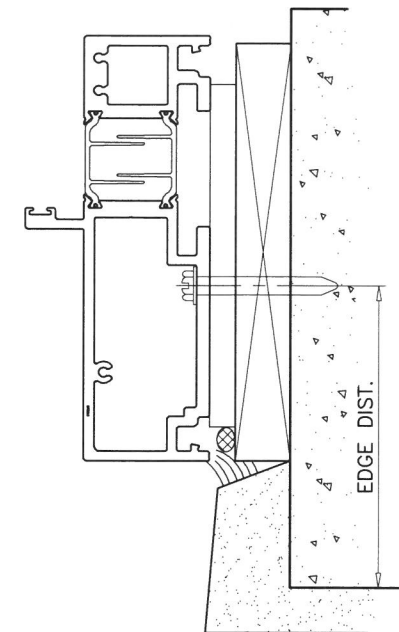
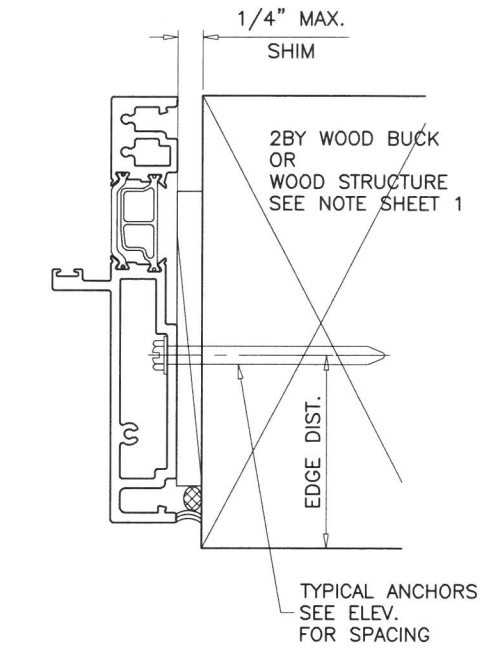
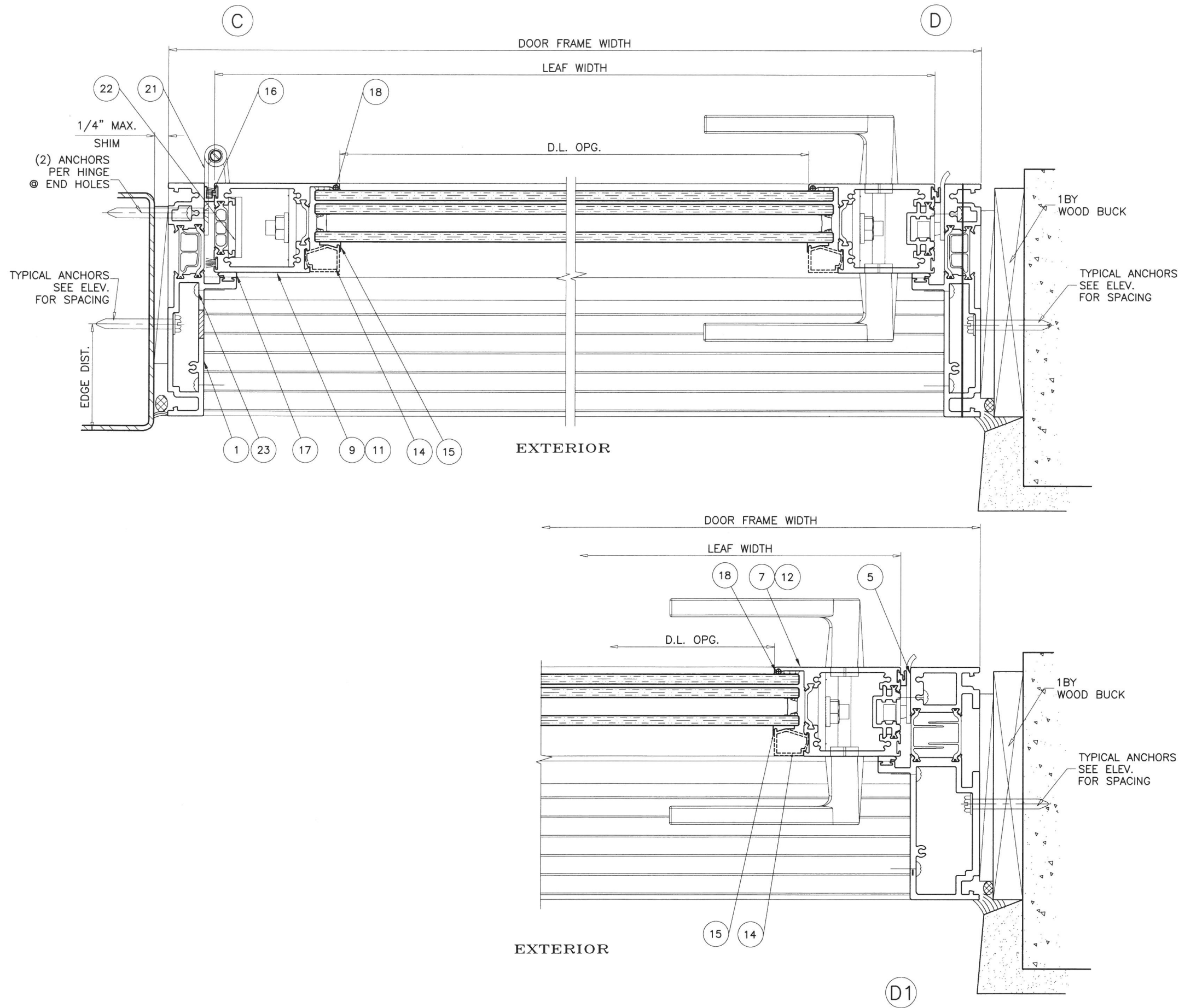
Western Window Systems

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dr.	by:	chk.	by:	
drawing no.	19-57F			
sheet	6 of 13			



DOOR DETAILS

FL #29882

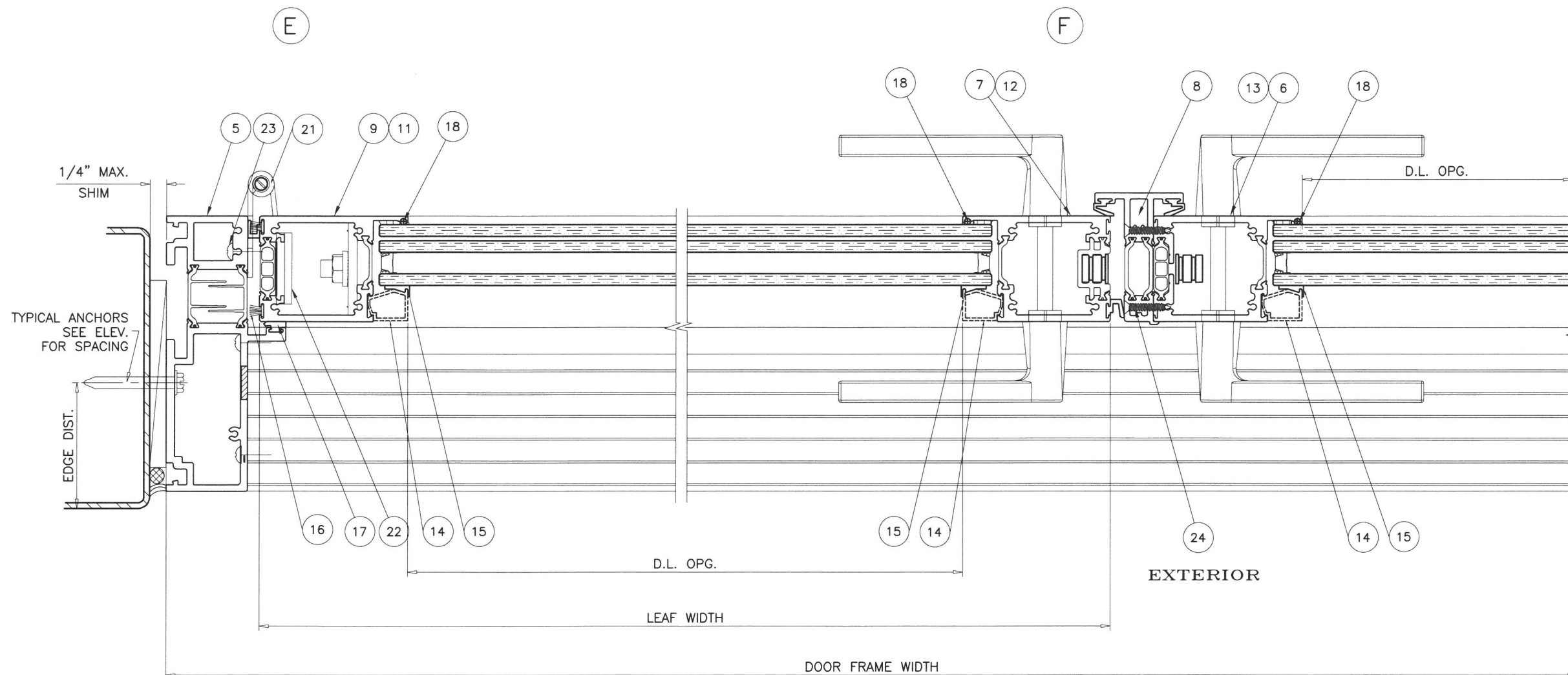


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sheet		7 of 13			



DOOR DETAILS

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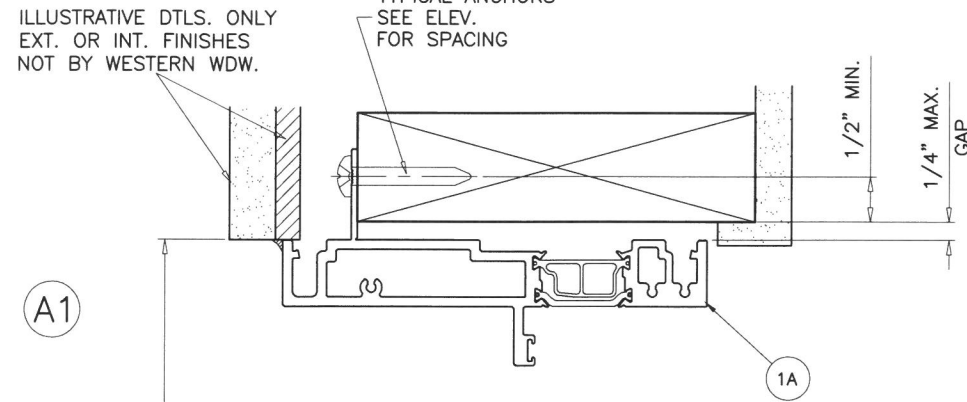
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sheet	8 of 13				

EXTERIOR

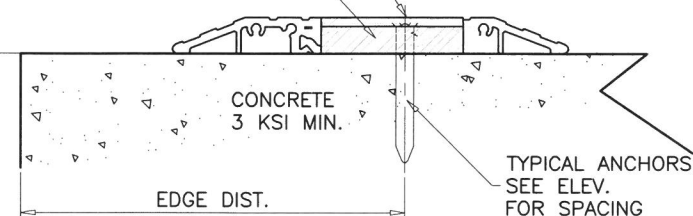
DOOR HEIGHT



B

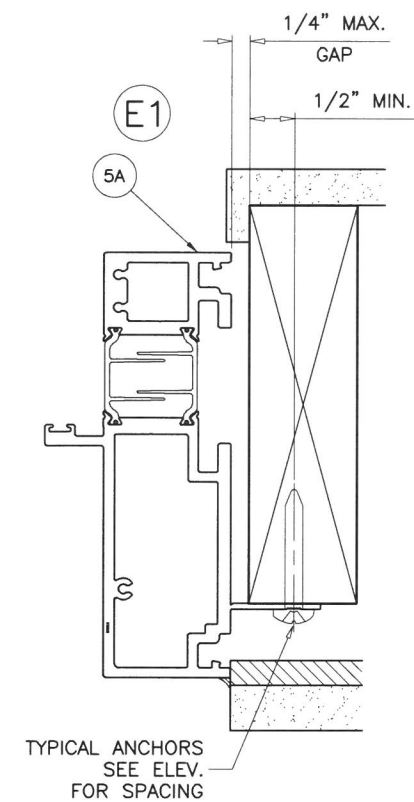
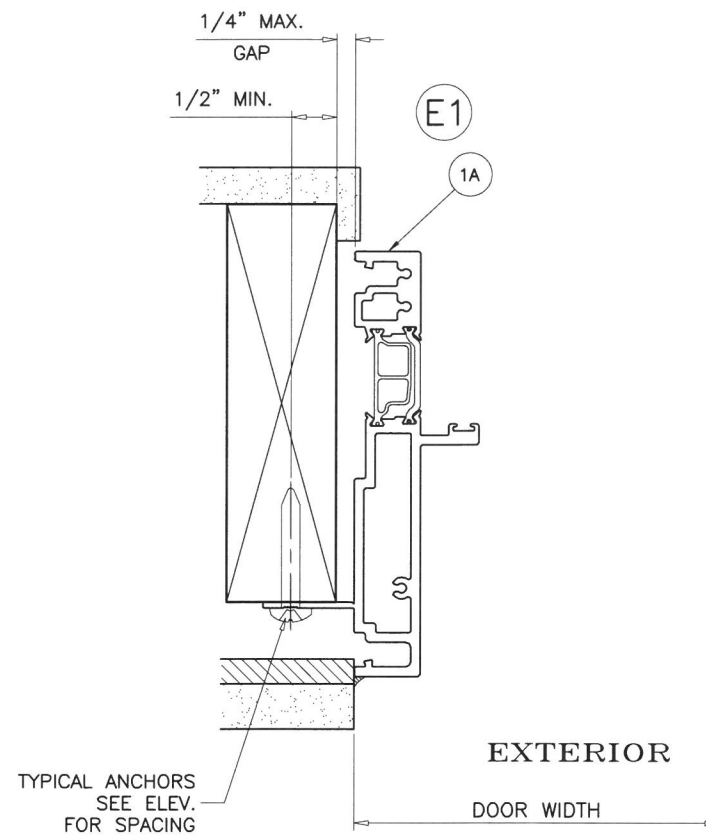
1/8" X 2-1/4"
STRIKE PLATE
AT SHOOT BOLT LOCATIONS

3/8" X 2-1/4"
BACKING PLATE
AT ANCHOR LOCATIONS
TYP. (SEE ELEVATIONS)



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

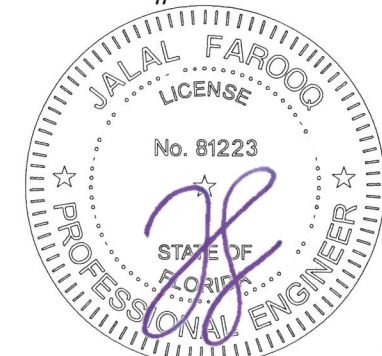


INSTALLATION DETAILS WITH FIN FRAMES

SEE SHEETS 5 THROUGH 8 FOR DOOR DETAILS

FIN FRAMES

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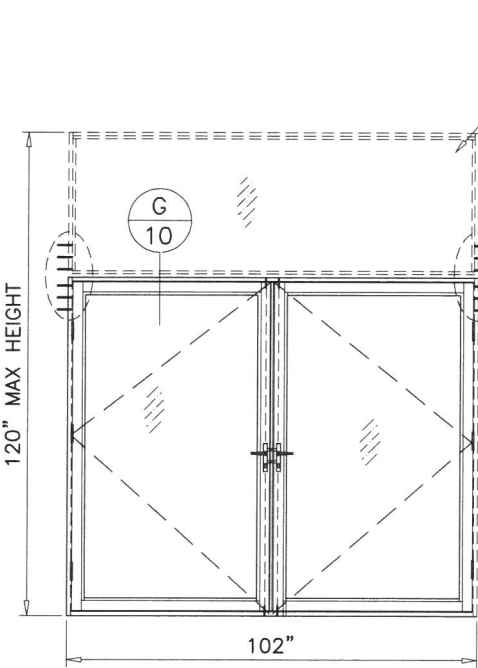
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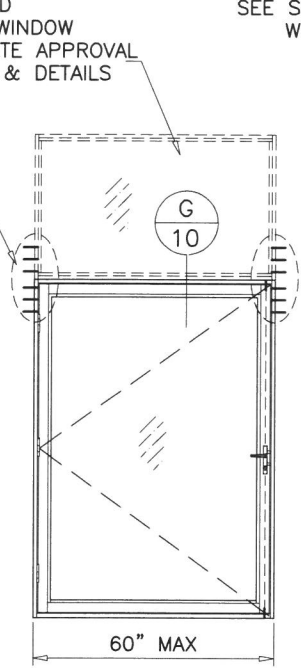
19-57F

sheet 9 of 13

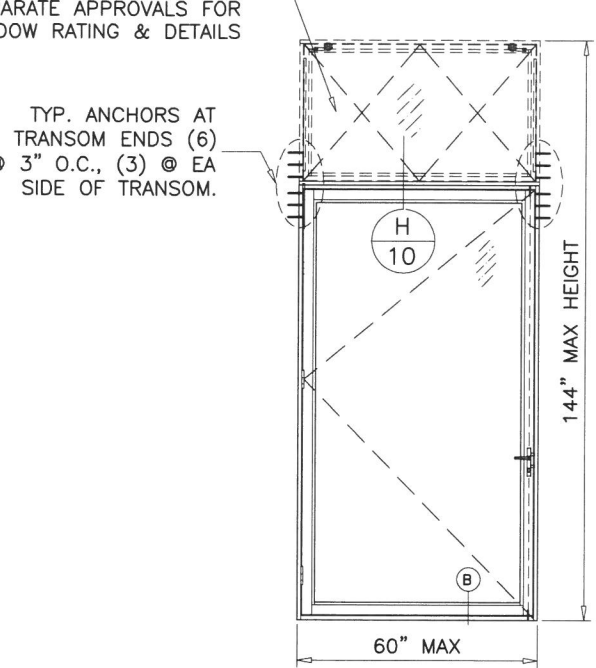
DOORS LOAD CAPACITY - PSF						
TRANSOM 7630/7660/7680 SERIES (O/X) (O/XX)						
DOOR FRAME		TRANSOM	7660/7680 SERIES		7630 SERIES	
WIDTH	HEIGHT	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
60"(X)	84"	24"	50.0	50.0	65.0	65.0
		30"	50.0	50.0	65.0	65.0
		36"	50.0	50.0	65.0	65.0
102"(XX)	84"	24"	-	-	65.0	65.0
		30"	-	-	65.0	65.0
		36"	-	-	65.0	65.0
60"(X)	96"	24"	50.0	50.0	65.0	65.0
		30"	50.0	50.0	-	-
		36"	50.0	50.0	-	-
102"(XX)	96"	24"	-	-	65.0	65.0
		30"	-	-	-	-
		36"	-	-	-	-
60"(X)	108"	24"	50.0	50.0	-	-
		30"	50.0	50.0	-	-
		36"	50.0	50.0	-	-
60"(X)	120"	24"	50.0	50.0	-	-
		30"	50.0	50.0	-	-
		36"	50.0	50.0	-	-



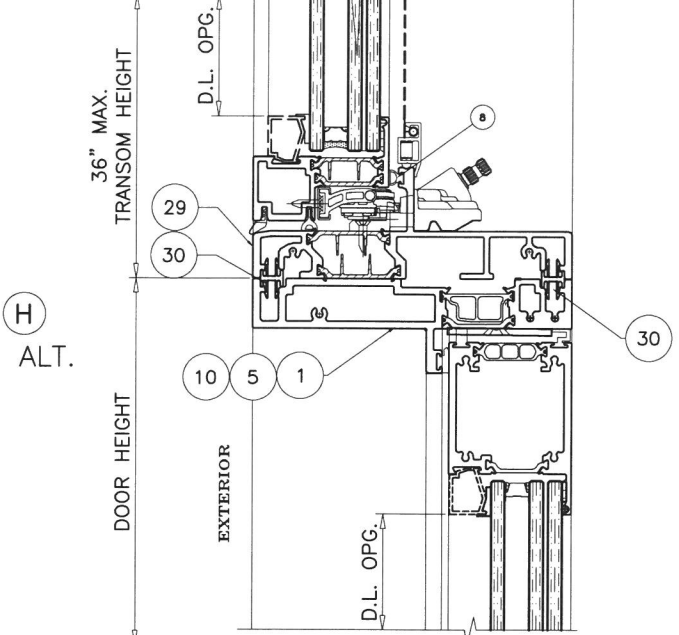
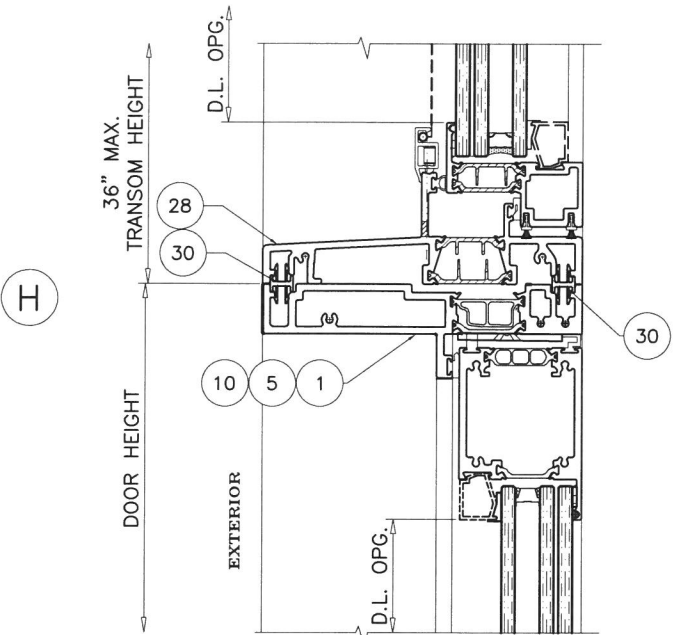
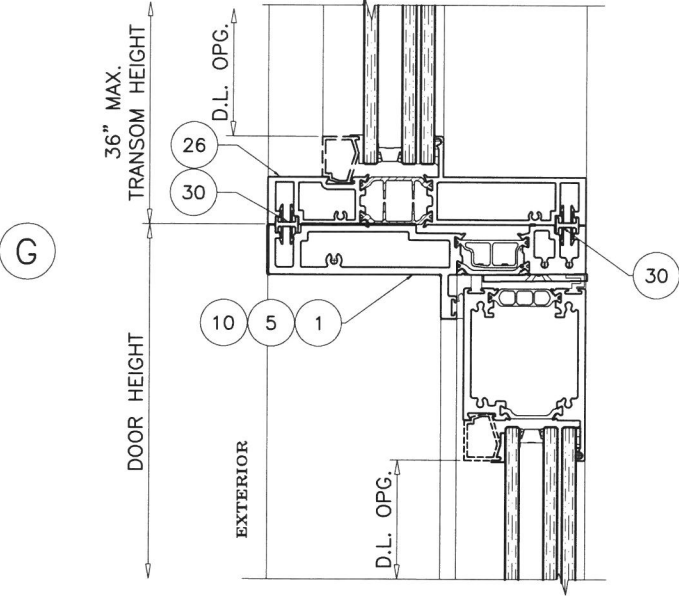
TYPICAL ELEVATION
FIXED TRANSOM (O/XX)



TYPICAL ELEVATION
FIXED TRANSOM (O/X)



TYPICAL ELEVATION
HOPPER/AWNING TRANSOM (O/X)



NOTES:
1. USE CHART ON THIS SHEET FOR TRANSOM CAPACITY.
2. FOR DOOR CAPACITY SEE CHARTS ON SHEETS 2 THROUGH 4.
3. FOR WESTERN WINDOW FIXED, AWNING OR HOPPER WINDOW CAPACITY SEE SEPARATE APPROVALS.

LOWER VALUES FROM STEPS 1, 2 OR 3 WILL APPLY TO ENTIRE SYSTEM.



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revisions:				
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TRANSITION MULLION LOAD CAPACITY - PSF DOOR WITH SIDELITE (7610/7620/7630 SERIES)					
HEIGHT	WIDTH "W"	7630 SERIES		7610/7620 SERIES	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
84"	37 1/2"	70.0	70.0	50.0	50.0
	42"	70.0	70.0	50.0	50.0
	45"	70.0	70.0	50.0	50.0
	49 1/2"	70.0	70.0	50.0	50.0
	55 1/2"	-	-	50.0	50.0
96"	37 1/2"	70.0	70.0	50.0	50.0
	42"	70.0	70.0	50.0	50.0
	45"	70.0	70.0	50.0	50.0
	49 1/2"	70.0	70.0	50.0	50.0
	55 1/2"	-	-	50.0	50.0
108"	37 1/2"	50.0	50.0	50.0	50.0
	42"	50.0	50.0	50.0	50.0
	45"	50.0	50.0	50.0	50.0
	49 1/2"	50.0	50.0	50.0	50.0
	55 1/2"	-	-	50.0	50.0
120"	37 1/2"	50.0	50.0	50.0	50.0
	42"	50.0	50.0	50.0	50.0
	45"	50.0	50.0	50.0	50.0
	49 1/2"	50.0	50.0	50.0	50.0
	55 1/2"	-	-	49.1	49.1

SINGLE DOORS (X)

$$\text{WIDTH (W)} = \frac{W1+W2}{2}$$

DOUBLE DOORS (XX)

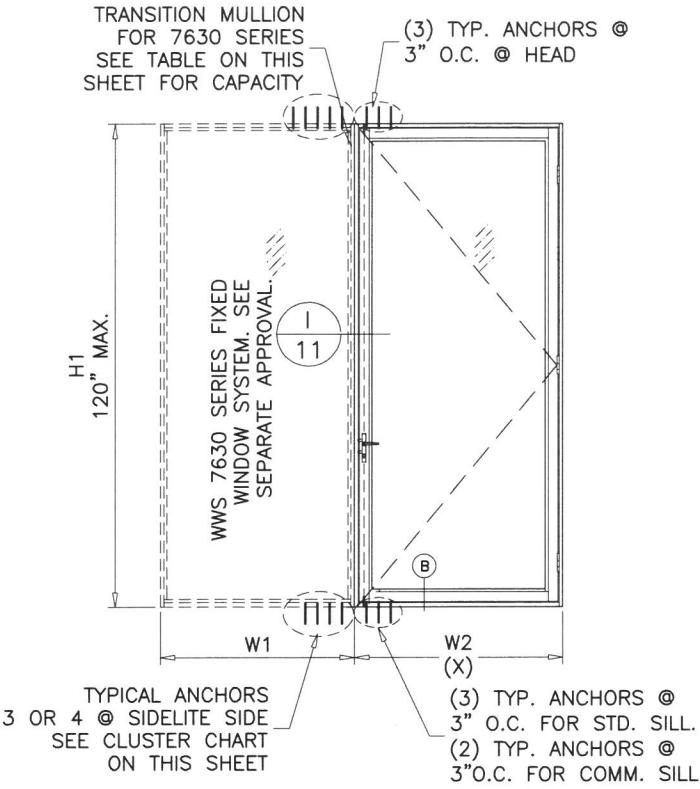
$$\text{WIDTH (W)} = \frac{W1+(W2/2)}{2}$$

TYPICAL ELEVATIONS ON THIS SHEET SHOWN FOR ILLUSTRATION PURPOSES. SINGLE OR DOUBLE DOORS CAN BE COMBINED WITH ANY FIXED, S.HUNG, H.ROLLER. FOR LIMITATIONS SEE CHART ABOVE AND OTHER NOTES ON THIS SHEET.

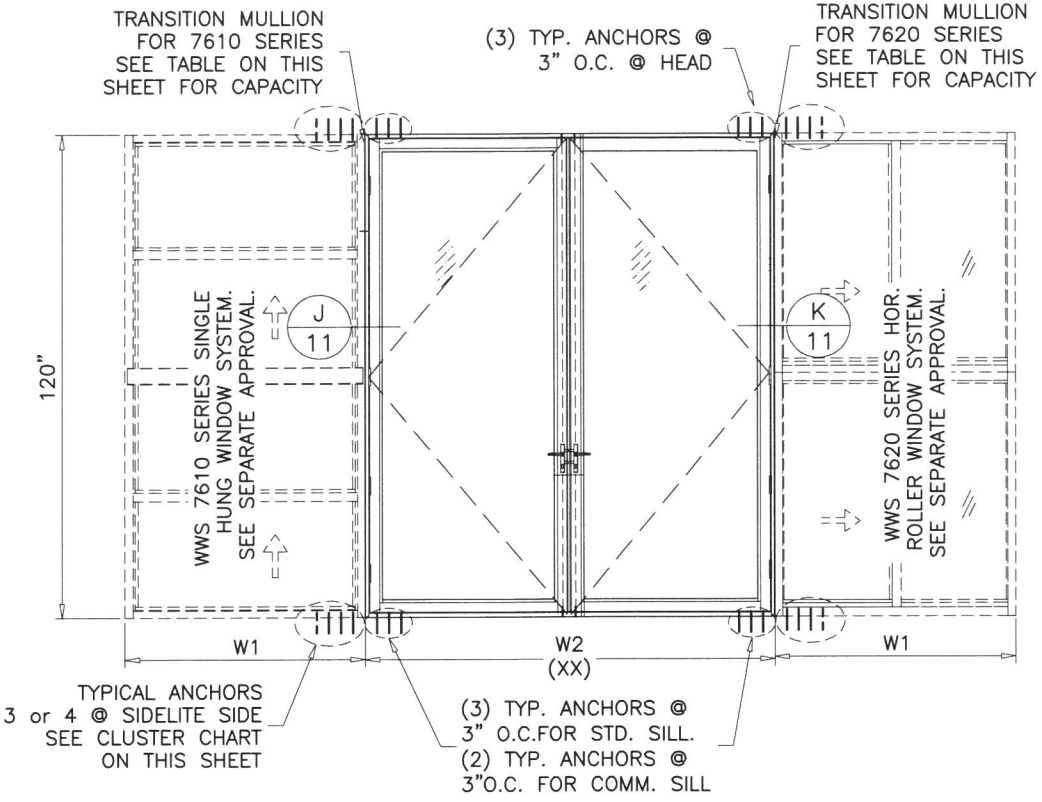
DOOR HEAD & SILL ANCHOR CLUSTERS @ SIDELITE SIDE			
WIDTH "W"	DOOR HEIGHT	ANCHOR CLUSTER QTY	
		7630	7610/7620
43 1/2"	96"	3	3
49 1/2"		3	3
55 1/2"		-	4
43 1/2"	120	3	3
49 1/2"		3	3
55 1/2"		-	4

- NOTES:
1. USE CHART ON THIS SHEET FOR TRANSITION MULLION CAPACITY.
 2. FOR DOOR CAPACITY SEE CHARTS ON SHEETS 2 THROUGH 4.
 3. FOR WESTERN WINDOW FIXED, S.HUNG OR H.ROLLER WINDOW CAPACITY SEE SEPARATE APPROVALS.

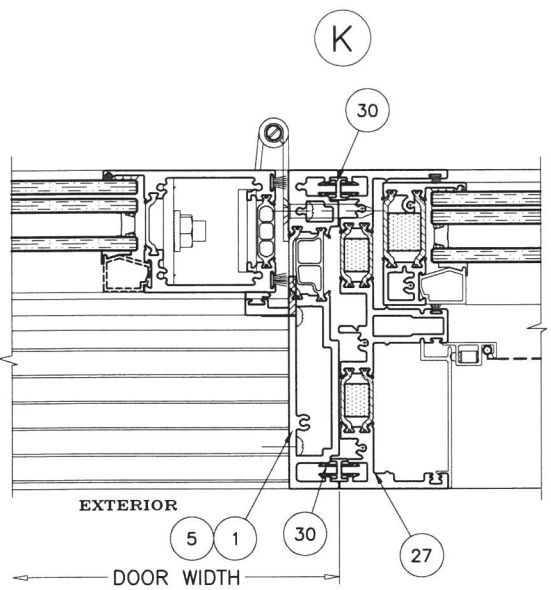
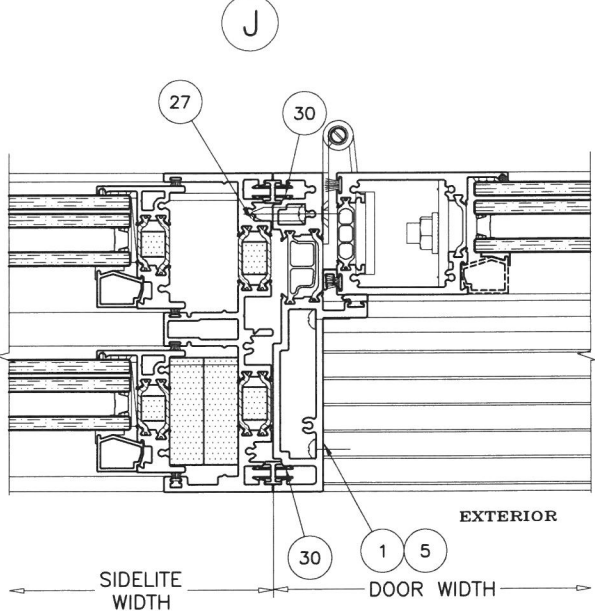
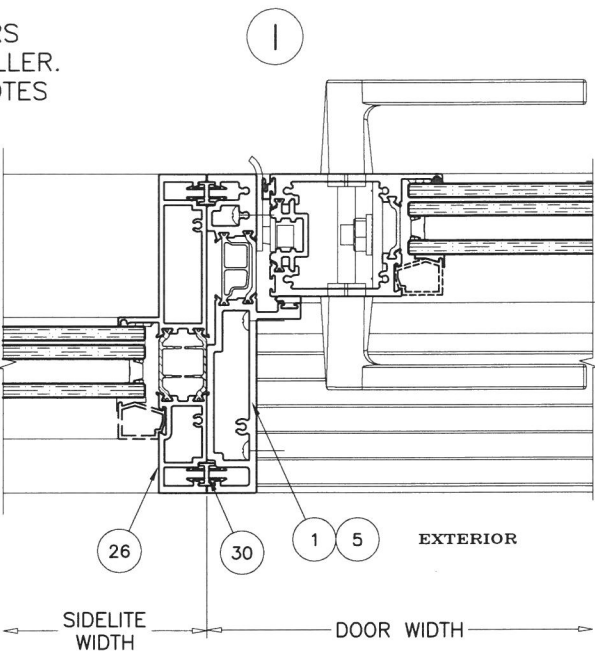
LOWER VALUES FROM STEPS 1, 2 OR 3 WILL APPLY TO ENTIRE SYSTEM.



DOOR WITH FIXED SIDELITE
7630 SERIES SIDELITE



DOOR WITH S.HUNG/H.ROLLER SIDELITES
7610/7620 SERIES



FL #29882



Sealed: 10/2/2020

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chk. by:		drawing no.	19-57F	sheet	11 of 13

LOCKS:

MAX. FRAME HEIGHT = 145 3/8 IN.
MAX. LEAF WIDTH = 60 IN.
MAX. DESIGN LOAD = 70 PSF
(SEE TABULATED CHARTS FOR PRESSURE AND SIZE LIMITATIONS)

ACTIVE LEAF:

5 POINT LOCK SYSTEM HLS9000 SERIES
BY 'HOPPE'
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR
LEVER TYPE HANDLE AT 36" FROM BOTTOM OF LEAF

INACTIVE LEAF:

2 POINT LOCK SYSTEM
BY 'HOPPE'
LEVER TYPE HANDLE AT 36" FROM BOTTOM OF LEAF
ACTIVATES SHOOT BOLTS AT HEAD AND SILL

HINGES:

6" STEEL KNUCKLE HINGES BY 'ASSA ABLOY'
FASTENED WITH 1/4-20 X 3/4" FH MACHINE SCREWS
THREE PER HASP(LEAF).
TOP AND BOTTOM HINGES AT 7" FROM EACH END
(1) HINGE REQD. AT MIDSPAN FOR MAX 99" HIGH DOORS
ALL OTHER DOORS TO HAVE INTERMEDIATE HINGES AT 40" O.C. MAX.

SEALANTS:

ALL FRAME AND LEAF JOINTS AND SEAMS SEALED
WITH DOWSIL 791 SILICONE.

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	EX7900	AS REQD.	FLUSH STD FRAME JAMB/HEAD	6063-T6	-
1A	EX7900	AS REQD.	FIN STD FRAME JAMB/HEAD	6063-T6	-
2	EX7901	AS REQD.	STANDARD FRAME SILL	6063-T6	-
3	EX7910	AS REQD.	HI BOTTOM RAIL	6063-T6	-
4	EX7911	AS REQD.	COMMERCIAL SILL	6063-T6	-
5	EX7925	AS REQD.	FLUSH HEAVY DUTY FRAME JAMB/HEAD	6063-T6	-
5A	EX7925	AS REQD.	FIN HEAVY DUTY FRAME JAMB/HEAD	6063-T6	-
6	EX7954	AS REQD.	LOCK STILE INACTIVE (NARROW)	6063-T6	-
7	EX7955	AS REQD.	LOCK STILE ACTIVE (NARROW)	6063-T6	-
8	EX7957	AS REQD.	ASTRAGAL	6063-T6	-
9	EX7962	AS REQD.	TOP/BOTTOM/HINGE STILE (NARROW)	6063-T6	-
10	EX7980	AS REQD.	FLUSH FRAME HEAD FOR CONCEALED CLOSER	6063-T6	-
10A	EX7980	AS REQD.	FIN FRAME HEAD FOR CONCEALED CLOSER	6063-T6	-
10B	EX7918	AS REQD.	FRAME HEAD COVER FOR CONCEALED CLOSER	6063-T6	-
10C	EX9156	AS REQD.	COVER RETAINER FOR CONCEALED CLOSER HEAD	6063-T6	-
11	EX7983	AS REQD.	TOP/BOTTOM/ HINGE STILE (MEDIUM)	6063-T6	-
12	EX7984	AS REQD.	LOCK STILE ACTIVE (MEDIUM)	6063-T6	-
13	EX7985	AS REQD.	LOCK STILE INACTIVE (MEDIUM)	6063-T6	-
14	E7629	AS REQD.	GLASS STOP (DECORATIVE)	6063-T6	-
15	W12512	AS REQD.	GLAZING GASKET (EXTERIOR)	EPDM	-
16	-	AS REQD.	LEAF EXTERIOR WEATHER STRIP	-	-
17	-	AS REQD.	LEAF INTERIOR WEATHER GASKET	-	-
18	W7600	AS REQD.	3mm CHORD STOCK (INTERIOR)	-	-
19	H2212	2/ LITE	SETTING BLOCK, AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
20	-	AS REQD.	1/8" THK. STRIKE PLATE	ST. STEEL	-
21	H7900	AS REQD.	STEEL KNUCKLE HINGE	ST. STEEL	ASSA ABLOY
22	H7913	AS REQD.	HINGE STILE BACKING	-	-
23	-	AS REQD.	#8 X 1" LG ASSEMBLY SCREW	ST. STEEL	-
24	-	AS REQD.	#8 X 1 1/4" FH SMS (ASTRAGAL)	-	-
25	H7646	6	BACKING PLATE (#10-32)	-	-
26	EX7649	AS REQD.	FIXED FLUSH FRAME (HEAD/SILL/JAMB)	6063-T6	-
27	EX7635	AS REQD.	S.HUNG/H.ROLLER FLUSH FRAME (HEAD/JAMB)	6063-T6	-
28	EX7681	AS REQD.	HOPPER FUSH FRAME	6063-T6	-
29	EX7664	AS REQD.	AWNING FLUSH FRAME	6063-T6	-
30	E7661	AS REQD.	MULLION ADAPTER	6063-T6	-



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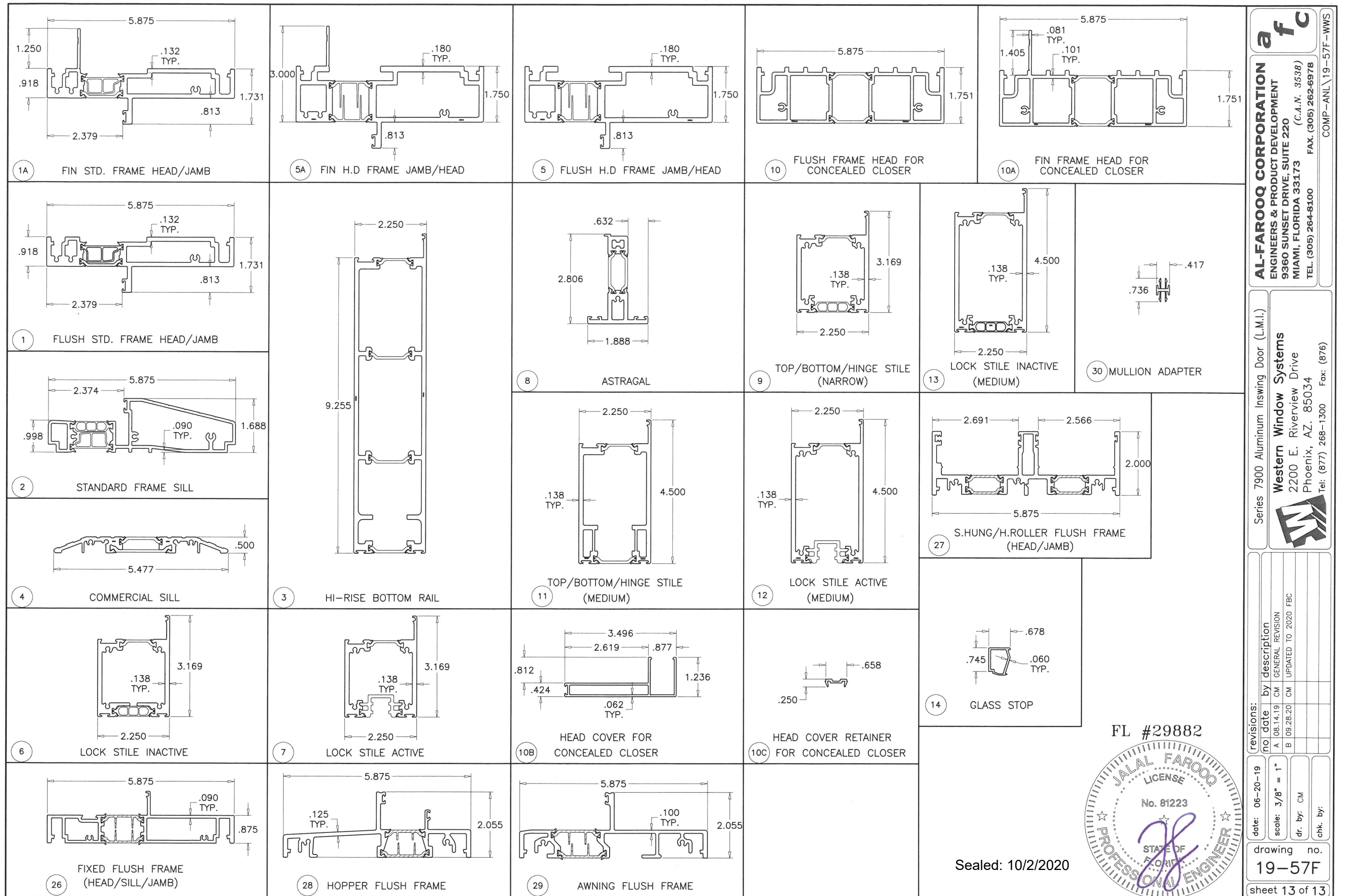
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sheet 12 of 13			



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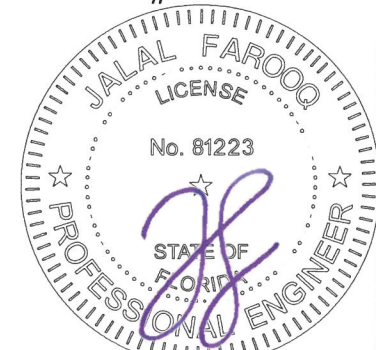
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