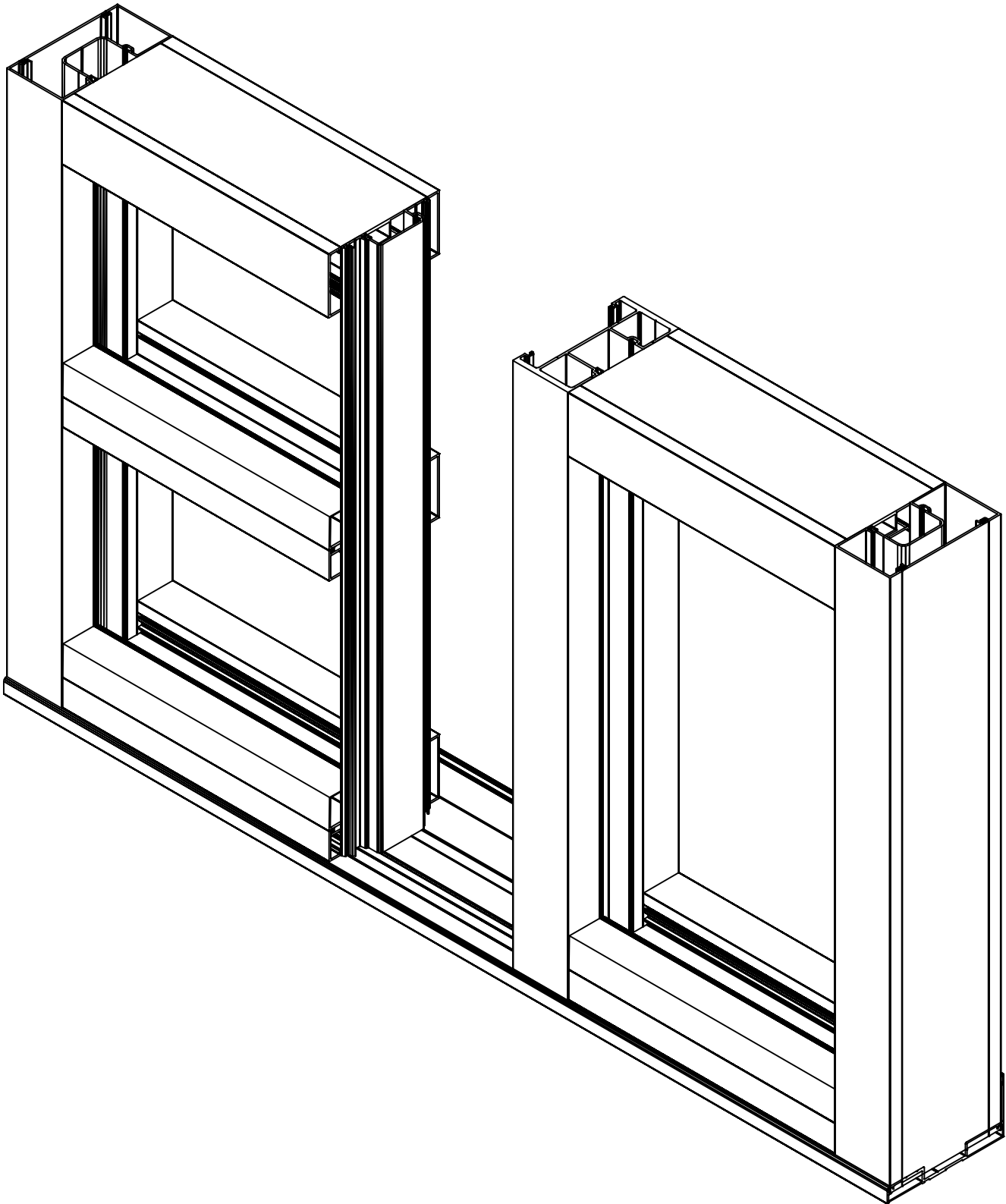


AMERICAN PRODUCTS
SERIES 2500 HVHZ IMPACT FLUSH GLAZE
STOREFRONT SYSTEM DRY GLAZE
LARGE MISSILE IMPACT RESISTANT - MISSILE LEVEL "D"



GENERAL NOTES

- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SEVENTH EDITION (2020), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE,
 - TAS 201-94 PER REQUIREMENTS OF THE FLORIDA BUILDING CODE
 - TAS 202-94 PER REQUIREMENTS OF THE FLORIDA BUILDING CODE
 - TAS 203-94 PER REQUIREMENTS OF THE FLORIDA BUILDING CODE
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. SITE SPECIFIC LOAD WIND LOAD REQUIREMENTS SHALL BE DETERMINED IN ACCORDANCE WITH ASCE 16 AND THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) BY SEPARATE ENGINEERING CERTIFICATION AND SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUE LISTED HEREIN FOR ANY ASSEMBLY WITHIN THE LIMITATIONS STATED HEREIN.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- ANCHOR EMBEDMENT SPECIFIED IS INTO HOST STRUCTURE MINIMUM.
- ALL EXTRUSIONS SHALL BE 6063-T5 ALUMINUM ALLOY, UNLESS NOTED OTHERWISE.
- EXTERIOR SEAM OF FRAME CORNERS, INSTALLATION SCREWS, AND GLAZING BEAD ENDS SHALL BE SEALED WITH SILICONE.
- ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI.
- ALL DISSIMILAR MATERIALS SHALL BE PAINTED OR PLATED AS PRESCRIBED IN THE FLORIDA BUILDING CODE.
- GLAZING ILLUSTRATED HEREIN UTILIZES SENTRYGLAS INTERLAYER BY KURARAY AMERICA INC.
- APPROVED FOR LARGE MISSILE IMPACT APPLICATIONS. SEE GLASS TYPES FOR ANY RESTRICTIONS
- TEST REPORTS: ARCHITECTURAL TESTING REPORT # B8049.01-401-18, B8050.01-401-18 & E9343.01-401-18
- GLAZING GASKETS TESTED PER ASTM C-864 & C-509 FOR DENSE EPDM.
- THIS SYSTEM MAY BE USED IN CONJUNCTION WITH AMERICAN PRODUCTS SERIES 2500 GLAZED ALUMINUM COMMERCIAL DOOR.
- CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED AND ARE NOT IN THIS CERTIFICATION.
- WINDOW TO SUBSTRATE WATER PROOFING IS NOT INCLUDED IN THIS DOCUMENT AND MUST BE ADDRESSED ON A SITE SPECIFIC BASIS. NOT BY AMERICAN PRODUCTS, INC.
- PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING:
AMERICAN PRODUCTS, INC.
TAMPA, FLORIDA
TAS 201/ 202/ 203
APPROVED BY FLORIDA BUILDING COMMISSION

VISIT [ECALC.IO/38295](https://ecalcalc.io/38295) SCAN HERE:

FOR HELPFUL RESOURCES, SITE SPECIFIC JOB ORDERING & MORE INFORMATION ABOUT THIS PRODUCT & RELATED SERVICES

FRANK BENNARDO, P.E.
PE# 0046549 CA. 9885

04/16/2021

FL#15936.1

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AMERICAN PRODUCTS, INC.

13909 LYNMAR BLVD.
TAMPA, FL 33626
Phn. (813) 925-0144 / FAX: (813) 925-1414

SERIES 2500 FLUSH GLAZED STOREFRONT SYSTEM
FLORIDA STATEWIDE APPROVAL
FLORIDA BUILDING CODE SEVENTH EDITION (2020)

REMARKS	DRWN	CHKD	DATE
FBC 2017 UPDATE	LAO	FLB	10/11/17
FBC 2020 UPDATE	TAE	AJP	03/15/21

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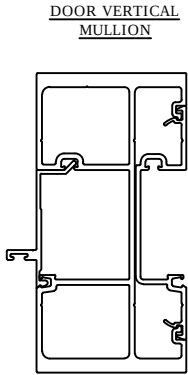
21-38295

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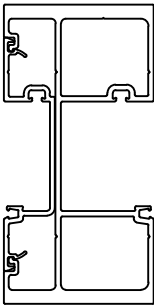
MULLION LOADING CAPACITY (PSF) - WITH OR WITHOUT HORIZONTALS								
NOMINAL DIMS						NOMINAL DIMS		
WIDTH (W)	FRAME HEIGHT	+/- P.S.F	WIDTH (W)	FRAME HEIGHT	+/- P.S.F	WIDTH (W)	FRAME HEIGHT	+/- P.S.F
30"	60"	60	30"	96"	60	30"	126"	60
36"		60	36"		60	36"		60
42"		60	42"		60	42"		60
48"		60	48"		60	48"		60
54"		60	54"		60	54"		60
62 1/2"		60	62 1/2"		60	62 1/2"		60
66"		57	66"		57	66"		56
72"		54	72"		52	72"		52
78"		51	78" *		48	78" *		48
84"		49	84" *		45	84" *		44
90"		47	90" **		42	90" **		41
96"		45	96" **		39	96" **		39
30"	72"	60	30"	108"	60	30"		60
36"		60	36"		60	36"		60
42"		60	42"		60	42"		60
48"		60	48"		60	48"		60
54"		60	54"		60	54"		60
62 1/2"		60	62 1/2"		60	62 1/2"		60
66"		57	66"		57	66"		57
72"		52	72"		52	72"		52
78" *		48	78" *		48	78" *		48
84" *		45	84" *		45	84" *		45
90" **		43	90" **		42	90" **		42
96" **		42	96" **		39	96" **		39
30"	84"	60	30"	120"	60	30"		60
36"		60	36"		60	36"		60
42"		60	42"		60	42"		60
48"		60	48"		60	48"		60
54"		60	54"		60	54"		60
62 1/2"		60	62 1/2"		60	62 1/2"		60
66"		57	66"		57	66"		57
72"		52	72"		52	72"		52
78" *		48	78" *		48	78" *		48
84" *		45	84" *		45	84" *		45
90" **		42	90" **		42	90" **		42
96" **		40	96" **		39	96" **		39

* HORIZONTAL TO HORIZONTAL D.L.O. 48" MAX.
** HORIZONTAL TO HORIZONTAL D.L.O. 36" MAX.
NOTE: FOR D.L.O.'S GREATER THAN 60" HORIZONTAL MULLION REINFORCEMENT IS REQUIRED. SEE DETAIL 2A/6

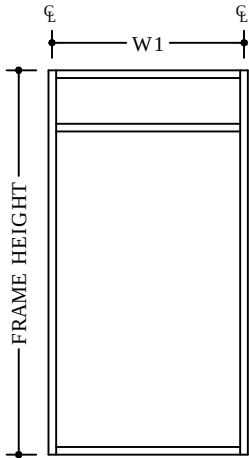


- 7A OR 7 API-2564
HEAVY VERTICAL
- 10 API-2582
SNAP IN DOOR STOP
- 21 API-2511
SHALLOW POCKET

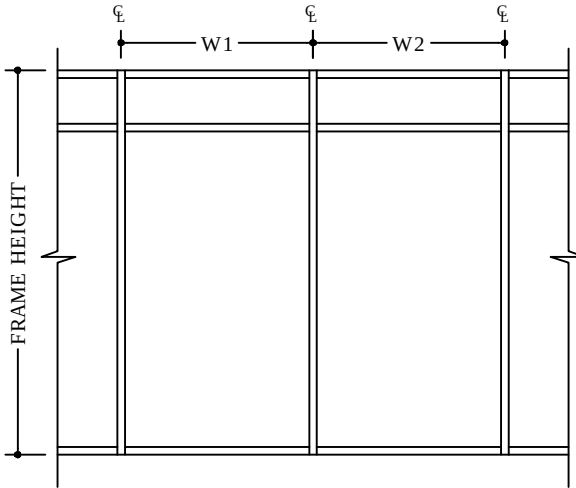
STOREFRONT VERTICAL MULLION



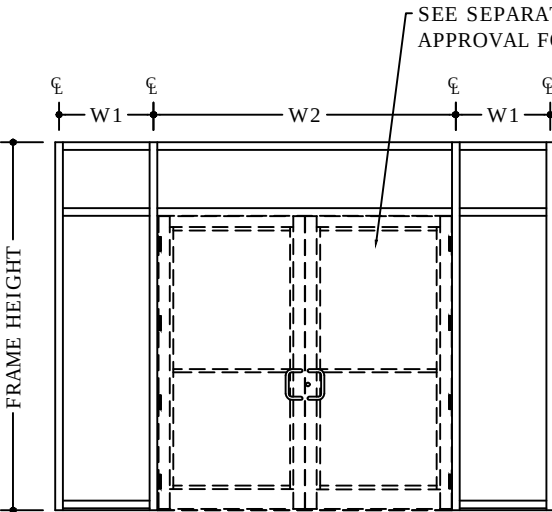
- 7A OR 7 API-2564
HEAVY VERTICAL
- 21 API-2511
SHALLOW POCKET



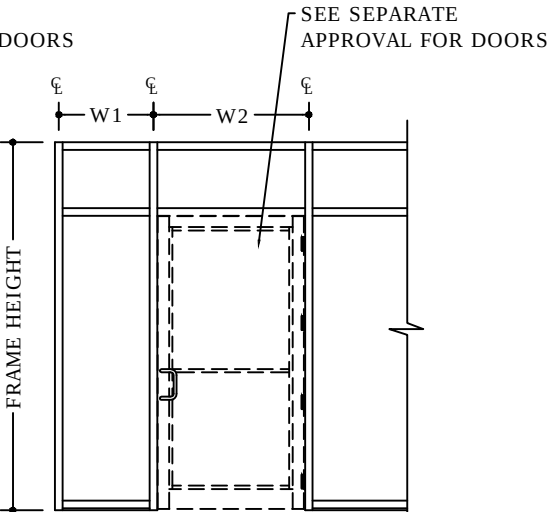
W1 / 2 = WIDTH (W)



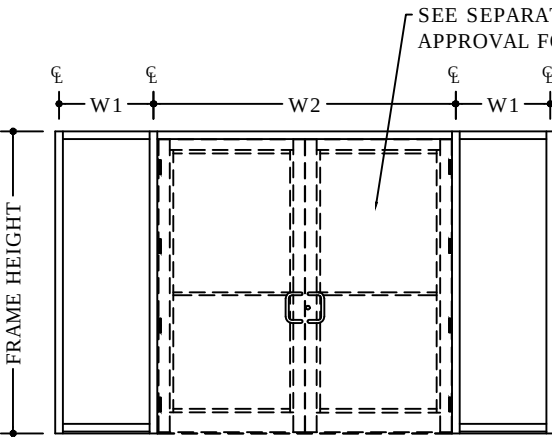
(W1 + W2) / 2 = WIDTH (W)



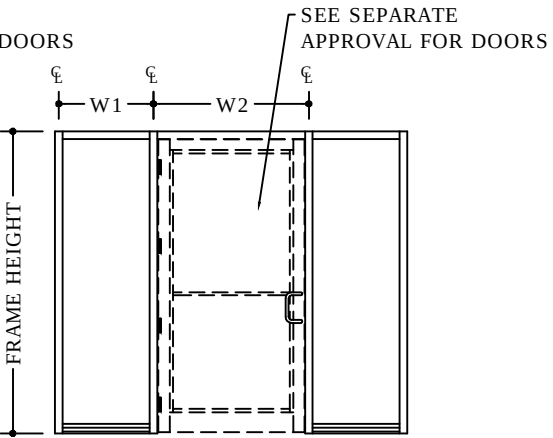
(W1 + W2) / 2 = WIDTH (W)



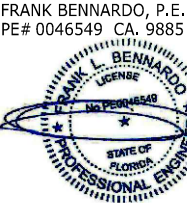
(W1 + W2) / 2 = WIDTH (W)



W1 / 2 + W2 / 4 = WIDTH (W)



(W1 + W2) / 2 = WIDTH (W)



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SERIES 2500 FLUSH GLAZED STOREFRONT SYSTEM
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FLORIDA BUILDING CODE SEVENTH EDITION (2020)

REMARKS	DRWN	CHKD	DATE
FBC 2017 UPDATE	LAO	FLB	10/11/17
FBC 2020 UPDATE	TAE	AJP	03/15/21

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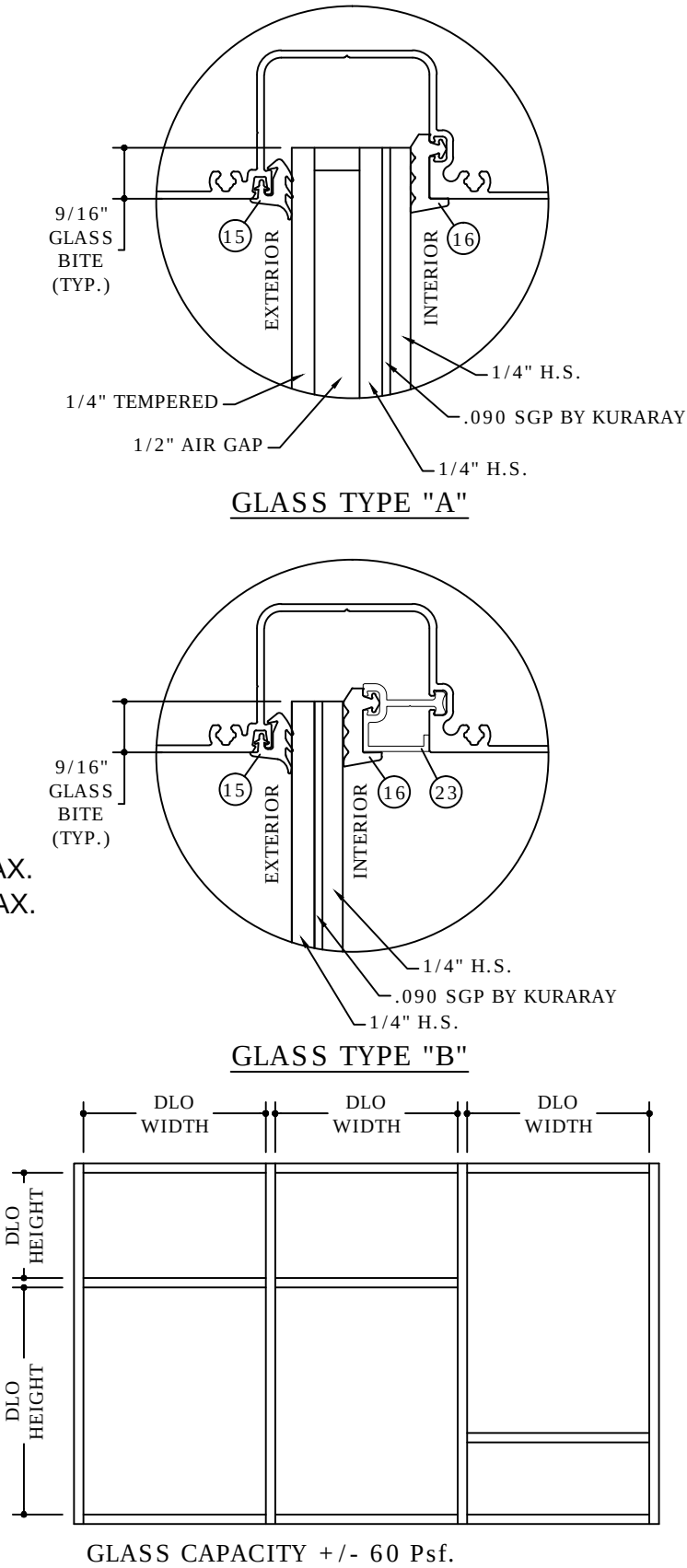
04/16/2021

STOREFRONT GLASS TYPES

DRY GLAZED

GLASS LOADING CAPACITY (PSF)											
NOMINAL DIMS		GLASS TYPE		NOMINAL DIMS		GLASS TYPE		NOMINAL DIMS		GLASS TYPE	
DLO WIDTH	DLO HEIGHT	TYPE A +/- P.S.F	TYPE B +/- P.S.F	DLO WIDTH	DLO HEIGHT	TYPE A +/- P.S.F	TYPE B +/- P.S.F	DLO WIDTH	DLO HEIGHT	TYPE A +/- P.S.F	TYPE B +/- P.S.F
30"	60"	60	50	30"	96"	60	50	30"	126"	60	50
36"		60	50	36"		60	50	36"		60	50
42"		60	50	42"		60	50	42"		60	50
48"		60	50	48"		60	50	48"		60	50
54"		60	50	54"		60	50	54"		60	50
62 1/2"		60	50	62 1/2"		60	50	62 1/2"		X	X
66"		60	50	66"		60	50	66"		X	X
72"		60	50	72"		X	X	72"		X	X
78"		60	50	78" *		X	X	78" *		X	X
84"		60	50	84" *		X	X	84" *		X	X
90"	72"	60	50	90" **	108"	X	X	90" **	120"	X	X
96"		60	50	96" **		X	X	96" **		X	X
30"		60	50	30"		60	50	30"		60	50
36"		60	50	36"		60	50	36"		60	50
42"		60	50	42"		60	50	42"		60	50
48"		60	50	48"		60	50	48"		60	50
54"		60	50	54"		60	50	54"		60	50
62 1/2"		60	50	62 1/2"		60	50	62 1/2"		X	X
66"		60	50	66"		X	X	66"		X	X
72"		60	50	72"		X	X	72"		X	X
78" *	84"	60	50	78" *	120"	X	X	78" *		X	X
84" *		60	50	84" *		X	X	84" *		X	X
90" **		60	50	90" **		X	X	90" **		X	X
96" **		X	X	96" **		X	X	96" **		X	X
30"		60	50	30"		60	50	30"		60	50
36"		60	50	36"		60	50	36"		60	50
42"		60	50	42"		60	50	42"		60	50
48"		60	50	48"		60	50	48"		60	50
54"		60	50	54"		60	50	54"		60	50
62 1/2"		60	50	62 1/2"		X	X	62 1/2"		X	X
66"	96"	60	50	66"	120"	X	X	66"		X	X
72"		60	50	72"		X	X	72"		X	X
78" *		60	50	78" *		X	X	78" *		X	X
84" *		X	X	84" *		X	X	84" *		X	X
90" **		X	X	90" **		X	X	90" **		X	X
96" **		X	X	96" **		X	X	96" **		X	X

* HORIZONTAL TO HORIZONTAL D.L.O. 48" MAX.
** HORIZONTAL TO HORIZONTAL D.L.O. 36" MAX.
NOTE: FOR D.L.O.'S GREATER THAN 60"
HORIZONTAL MULLION REINFORCEMENT IS
REQUIRED. SEE DETAIL 2A/6



NOTE:
GLASS CAPACITY ON THIS SHEET IS BASED ON ASTM E1300-09 (3 SEC GUST)

THE PERIMETER SEAL SYSTEM FOR THE INSULATED GLASS WAS COMPRISED OF
ALUMINUM REINFORCED BUTYL AIR SPACER.

FRANK BENNARDO, P.E.
PE# 0046549 CA. 9885

04/16/2021

FL#15936.1

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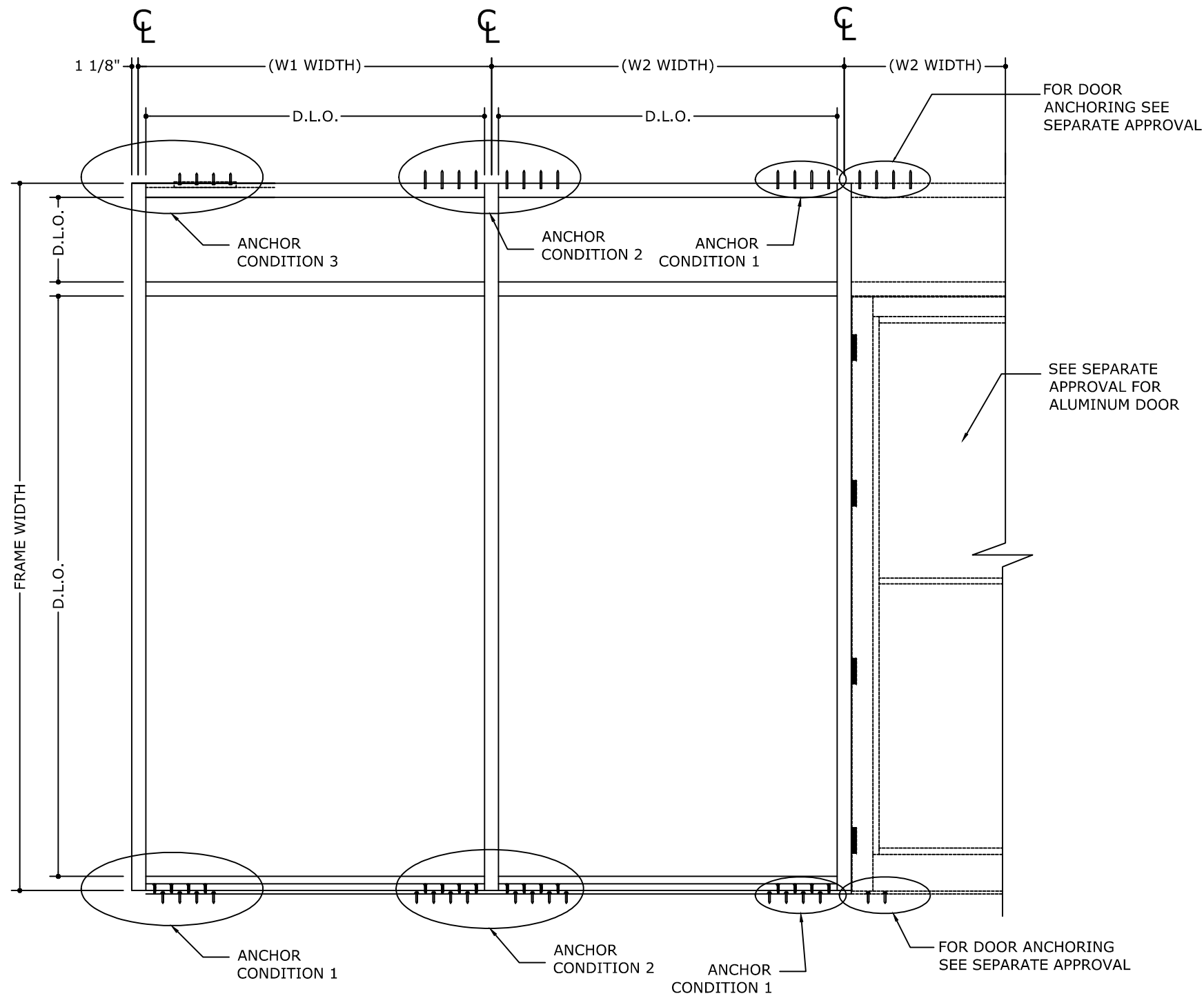
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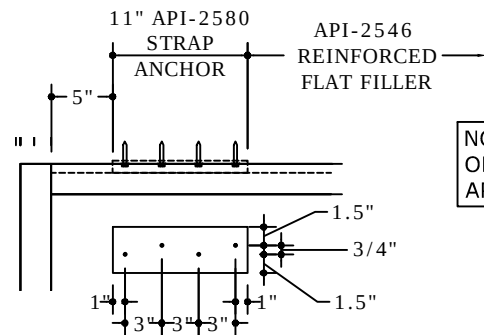
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TYPICAL ELEVATION

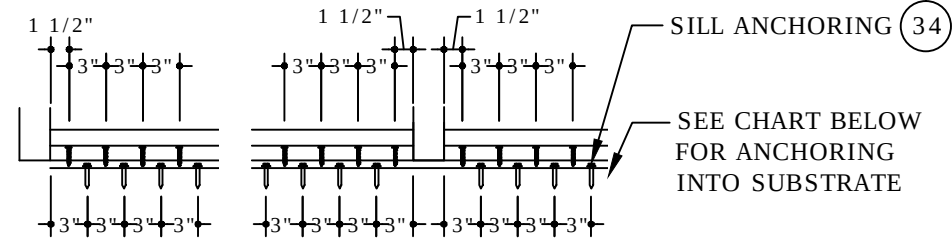
ANCHOR SPACING LAYOUT

OPTIONAL STRAP ANCHOR



ANCHOR SPACING LAYOUT

AT SILL



TYPICAL ANCHORS:

TYPE 'A'	
CONCRETE	<u>DIRECTLY INTO CONCRETE</u> (2846 PSI MIN) 1/4" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI) 1-3/4" MIN. EMBED INTO CONCRETE
TYPE 'B'	
GROUT FILLED CMU	<u>DIRECTLY INTO GROUT FILLED BLOCK</u> (ASTM C-90 MIN) 1/4" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI) 1-3/4" MIN. EMBEDMENT.
TYPE 'C'	
WOOD	<u>INTO 2BY WOOD BUCKS OR WOOD STRUCTURES</u> (SYP#2 G=0.55 MIN. 1 1/2" MIN. THICKNESS) 1/4" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI) 1-1/2" MIN. PENETRATION INTO WOOD
TYPE 'D'	
METAL	<u>INTO METAL STRUCTURES</u> (3 PITCHES PASS THE THREAD PLANE MIN.) STEEL: 18-18 GAGE STEEL MIN (Fy=36 KSI MIN) ALUMINUM: 1/8" THK MIN. (6063-T5 MIN) 1/4-20 DIA. DRIL-FLEX BY 'DEWALT' (GRADE 5 MIN) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
TYPICAL EDGE DISTANCE INTO CONCRETE/HOLLOW BLOCK/GROUT FILLED BLOCK= 2-1/2" MIN. INTO WOOD STRUCTURE = 1" MIN. INTO METAL STRUCTURE = 3/4" MIN.	

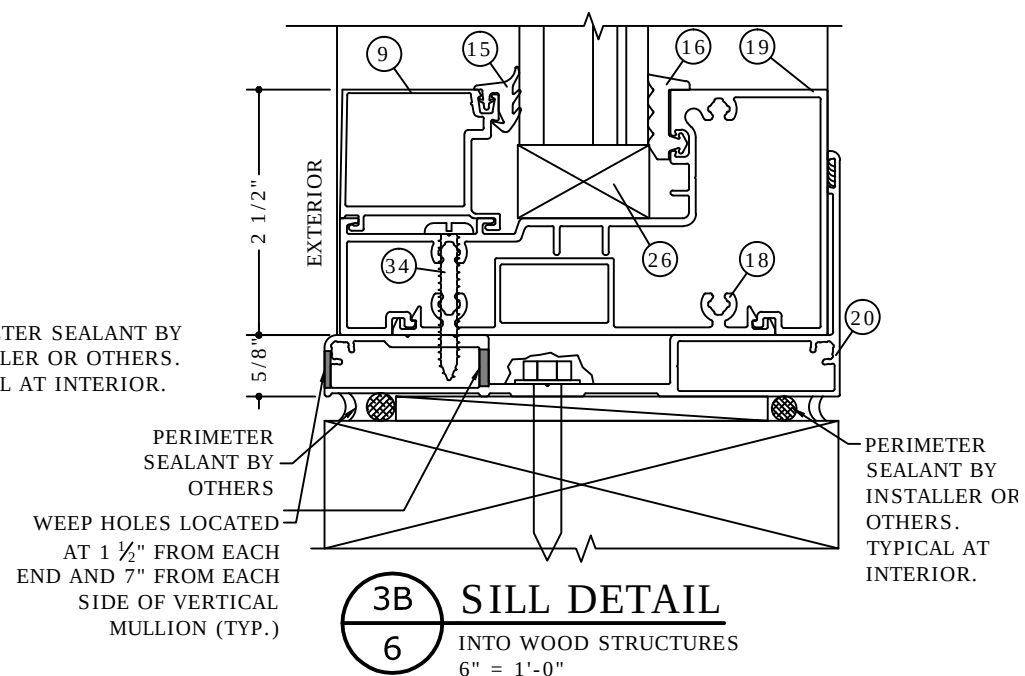
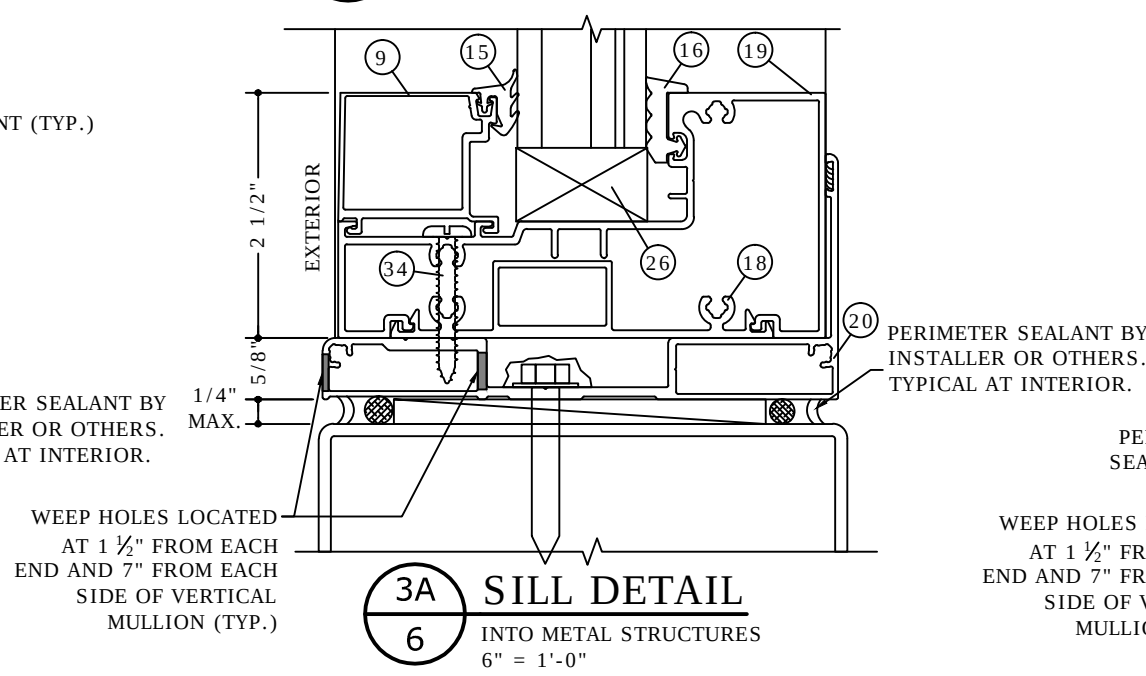
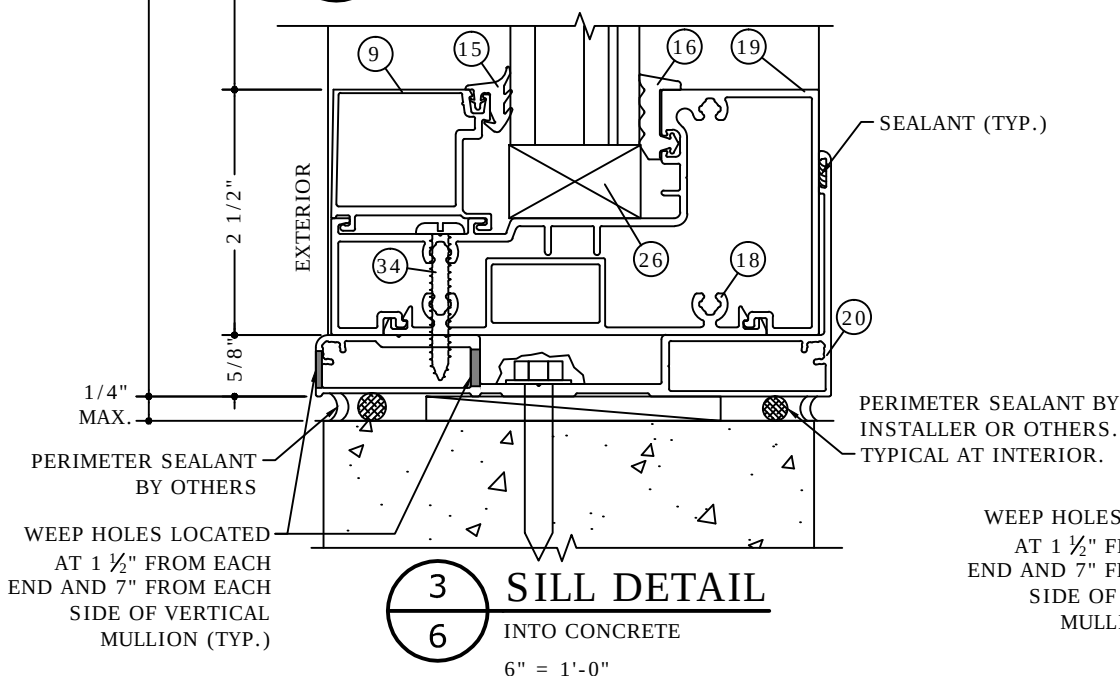
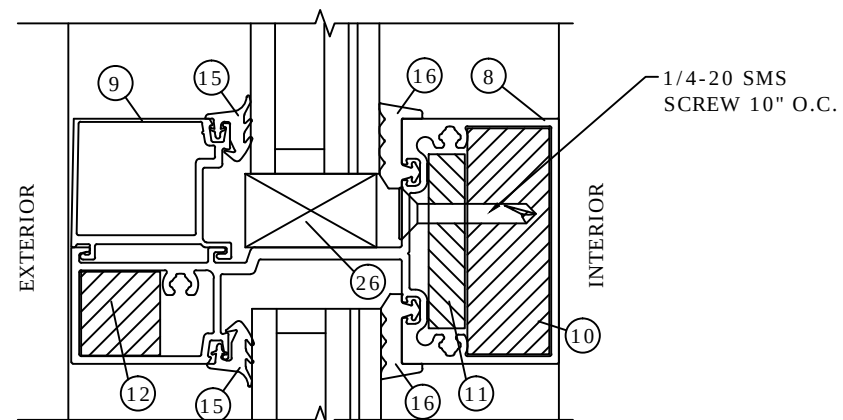
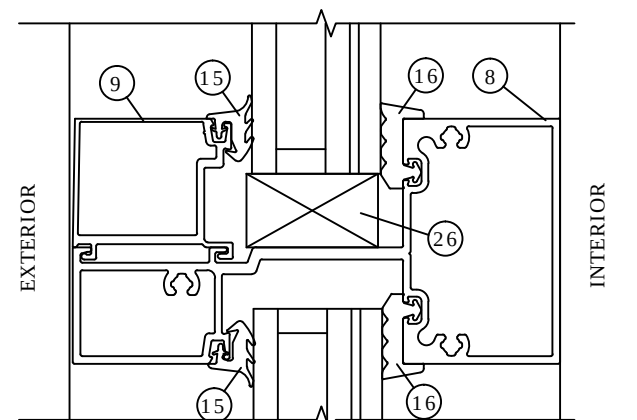
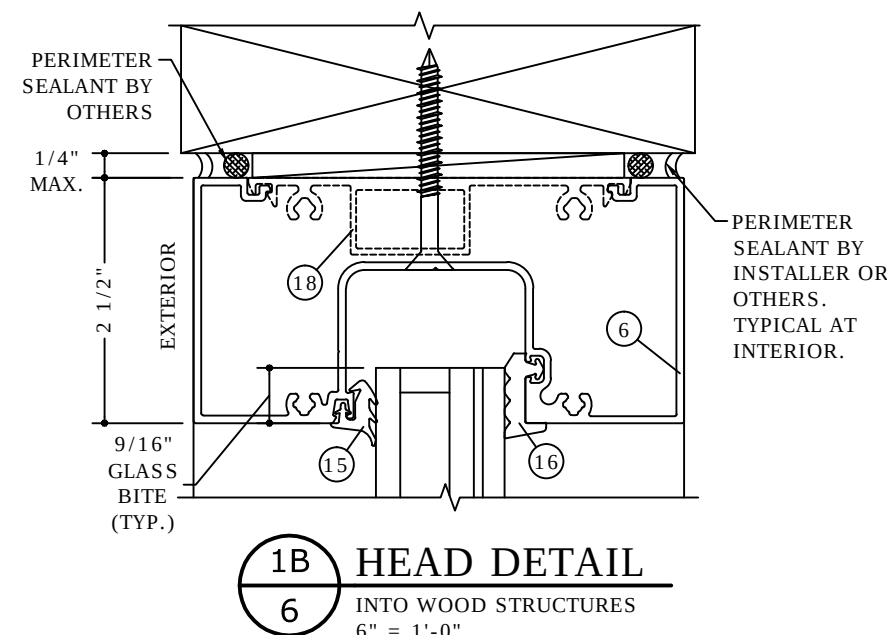
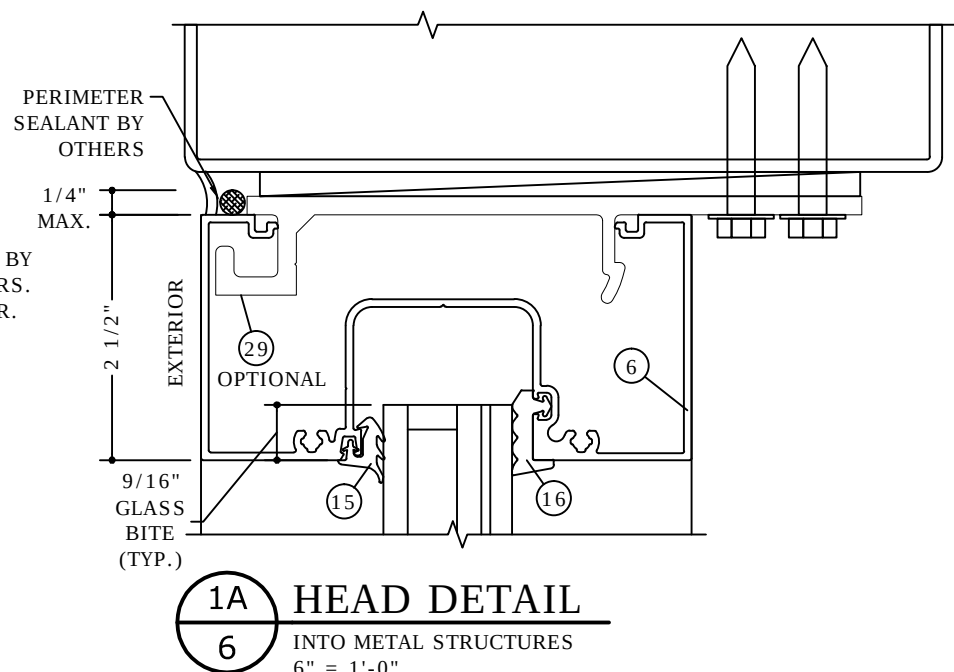
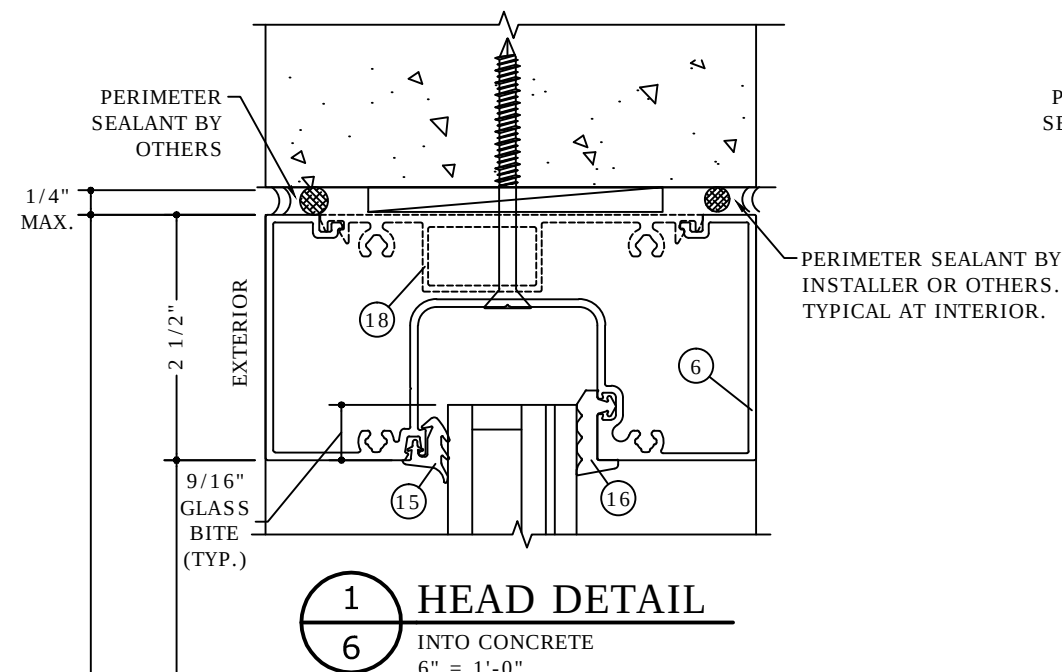
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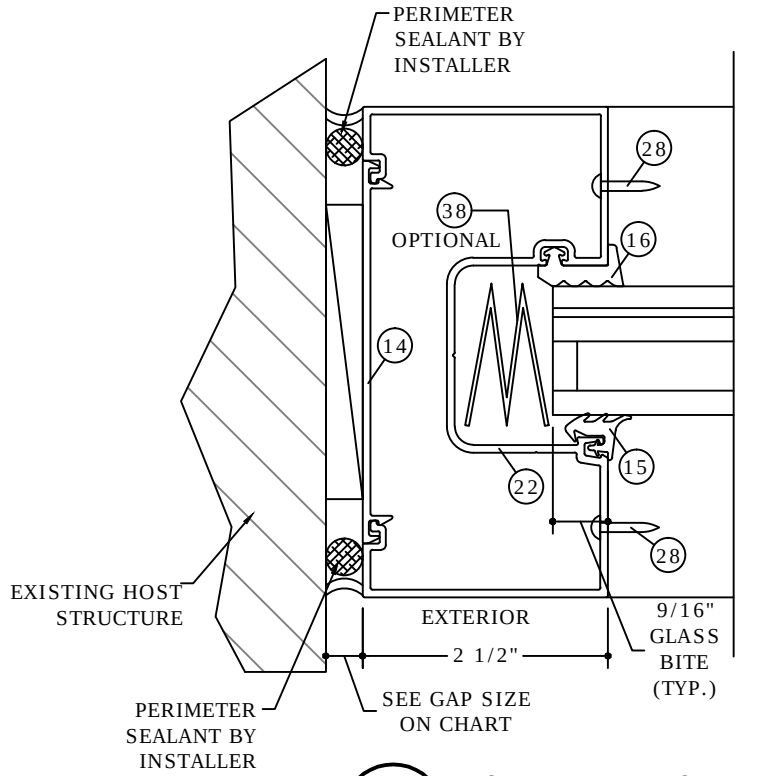
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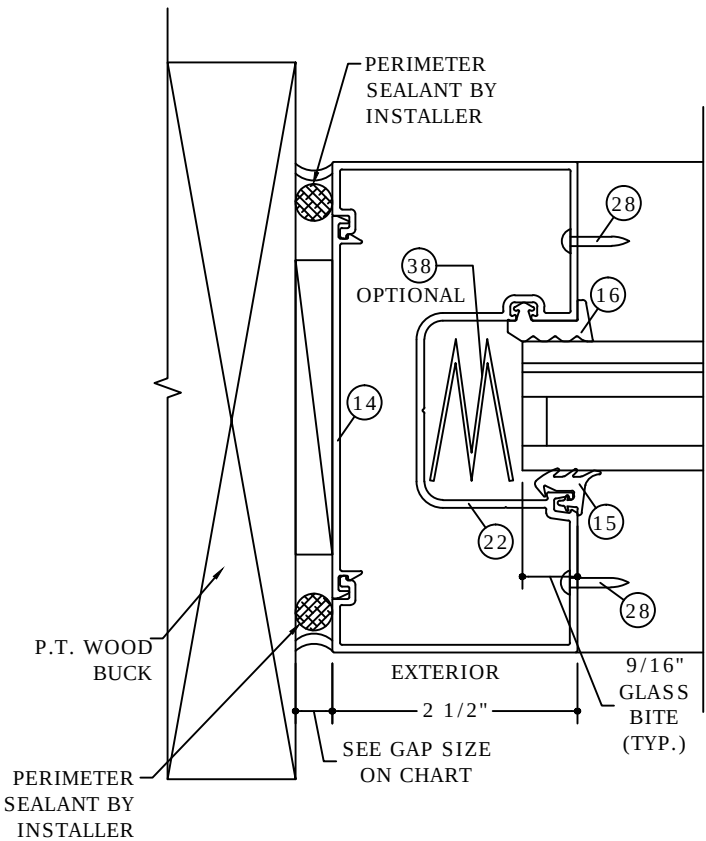
NOTE:

- ANCHORS PER ANCHOR SCHEDULE ON SHEET 5. SEE TYPICAL ELEVATION ON SHEET 5 FOR SPACING.
- WATER DIVERTERS TO BE LOCATED AT EACH END OF HORIZONTAL MULLION.
- OPEN GLAZING POCKET ENDS LOCATED AT EACH END OF SILL AND HORIZONTAL MULLION.

REMARKS	DRWN	CHKD	DATE
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FBC 2020 UPDATE	TAE	AJP	03/15/21

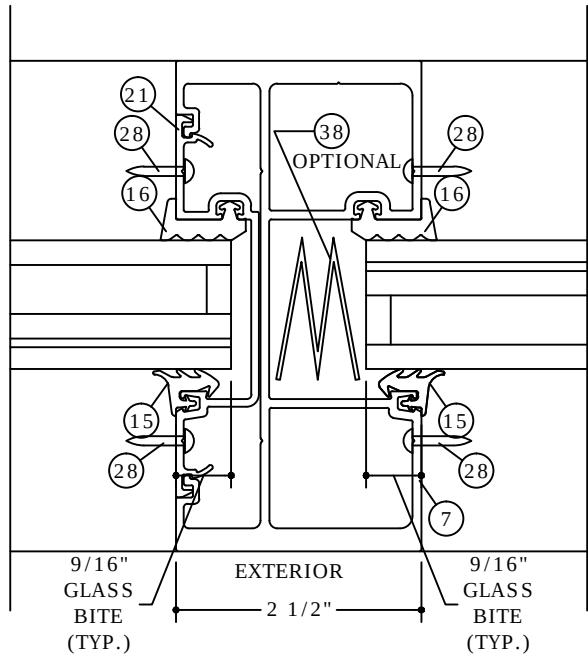


1 JAMB DETAIL
6" = 1'-0"

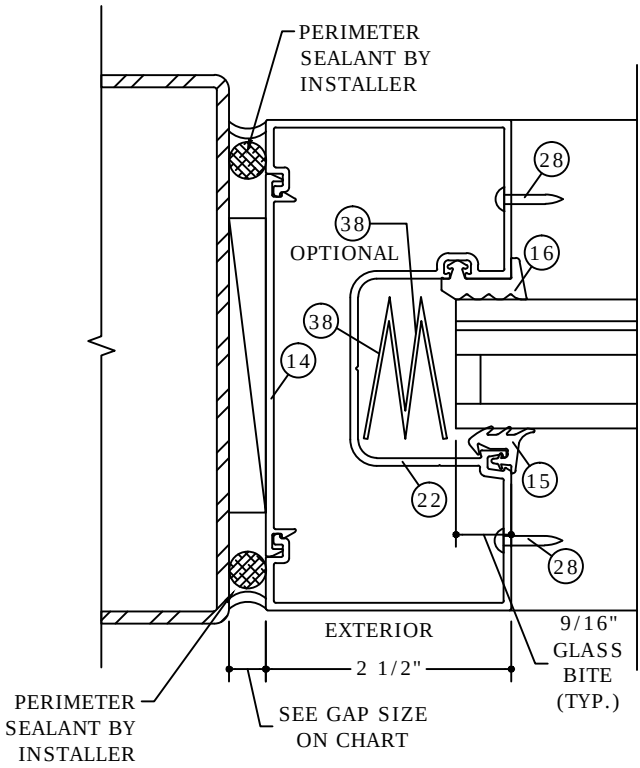


4 JAMB DETAIL
6" = 1'-0"

MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
60"	1/4"	3/4"
72"	3/8"	3/4"
84"	7/16"	3/4"
96"	1/2"	3/4"
108"	9/16"	3/4"
120"	5/8"	3/4"
126"	3/4"	3/4"

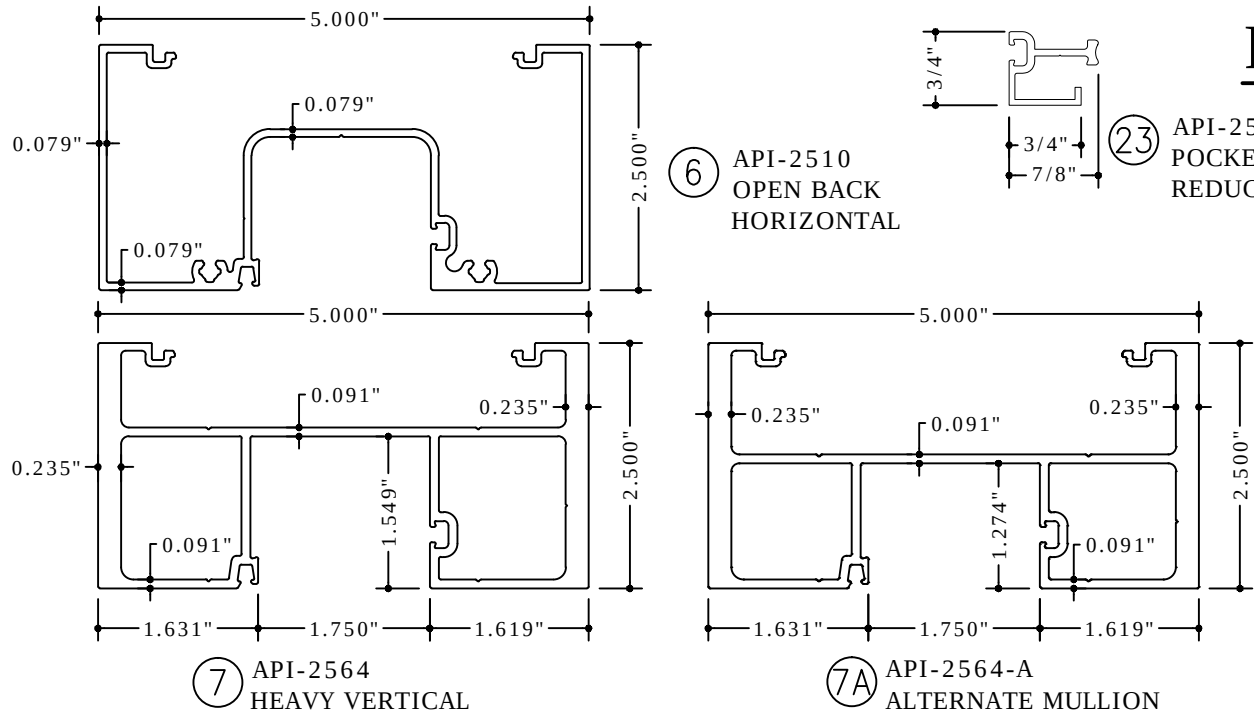


2 VERTICAL INTERMEDIATE DETAIL
6" = 1'-0"



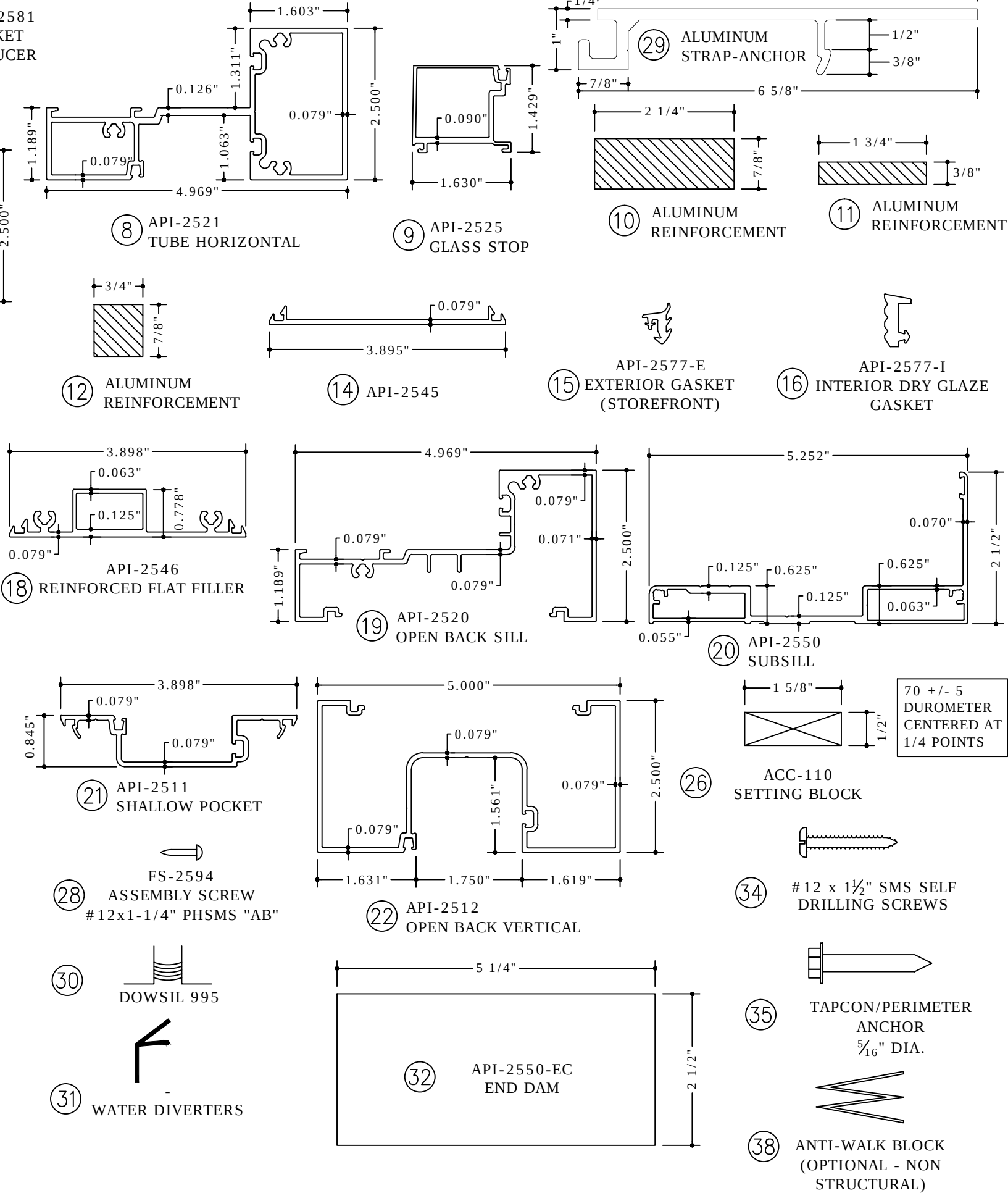
5 JAMB DETAIL
6" = 1'-0"

REMARKS	DRWN	CHKD	DATE
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Bill of Materials			
	Part	Material	Part No.
1-5	DOOR PART - NOT USED	-	-
6	OPEN BACK HORIZONTAL	ALU 6063-T6	API-2510
7	HEAVY VERTICAL	ALU 6063-T6	API-2564
7A	OPTIONAL HEAVY VERTICAL	ALU 6063-T6	API-2564-A
8	TUBE HORIZONTAL	ALU 6063-T6	API-2521
9	GLASS STOP	ALU 6063-T6	API-2525
10	ALUMINUM REINFORCEMENT	ALU 6063-T6	
11	ALUMINUM REINFORCEMENT	ALU 6063-T6	
12	ALUMINUM REINFORCEMENT	ALU 6063-T6	
13	DOOR PART - NOT USED	-	-
14	FLAT FILLER	ALU 6063-T6	API-2545
15	EXTERIOR GASKET (IMPACT)	GS-2575	API-2577-E
16	INTERIOR GASKET (IMPACT)	GS-2570	API-2577-I
17	DOOR PART - NOT USED	-	-
18	REINFORCED FLAT FILLER	ALU 6063-T6	API-2546
19	OPEN BACK SILL	ALU 6063-T6	API-2520
20	SUBSILL	ALU 6063-T6	API-2550
21	SHALLOW POCKET	ALU 6063-T6	API-2511
22	OPEN BACK VERTICAL	ALU 6063-T6	API-2512
23	POCKET REDUCER	ALU 6063-T6	API-2581
26	SETTING BLOCKS	-	ACC 110
27	DOOR PART - NOT USED	-	-
28	SCREW SPLINE SCREW #12x1-1/4" PHSMS "AB"	-	FS-2594
29	STRAP ANCHOR	ALU 6063-T6	API-2580
30	DOWSIL 995	SILICONE	-
31	WATER DIVERTERS	-	-
32	END DAM	-	API-2550-EC
33	DOOR PART - NOT USED	-	-
34	#12 x 1½" SMS SELF DRILLING SCREWS	-	-
35	TAPCON/PERIMETER ANCHOR 5/16" DIA.	-	-
36	DOOR PART - NOT USED	-	-
37	DOWSIL 795	SILICONE	-
38	ANTI-WALK BLOCK	-	-

PARTS LIST



FRANK BENNARDO, P.E.
PE# 0046549 CA. 9885

04/16/2021

FL#15936.1

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SERIES 2500 FLUSH GLAZED STOREFRONT SYSTEM
FLORIDA STATEWIDE APPROVAL
FLORIDA BUILDING CODE SEVENTH EDITION (2020)

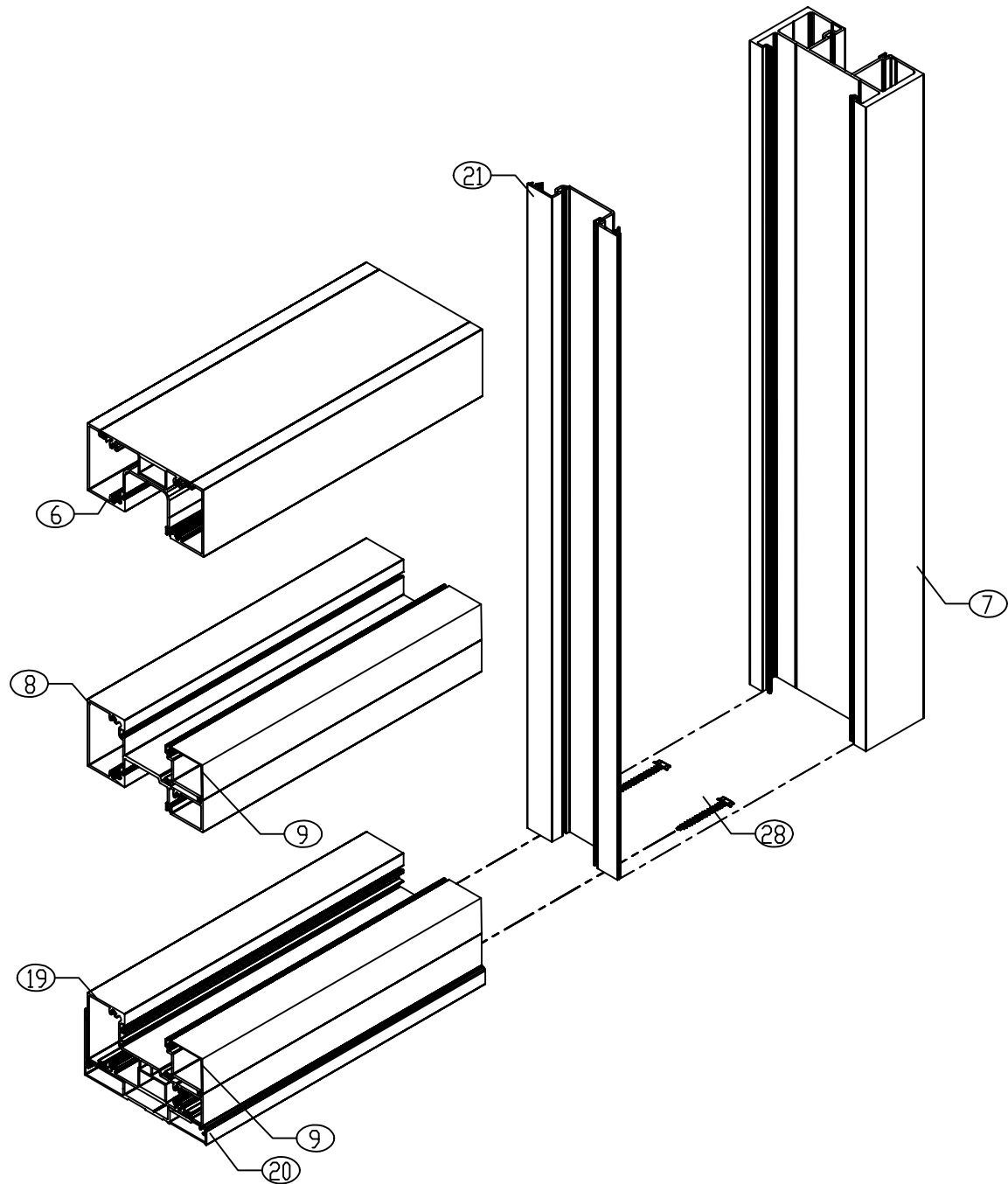
REMARKS	DRWN	CHKD	DATE
FBC 2017 UPDATE	LAO	FLB	10/11/17
FBC 2020 UPDATE	TAE	AJP	03/15/21

21-38295

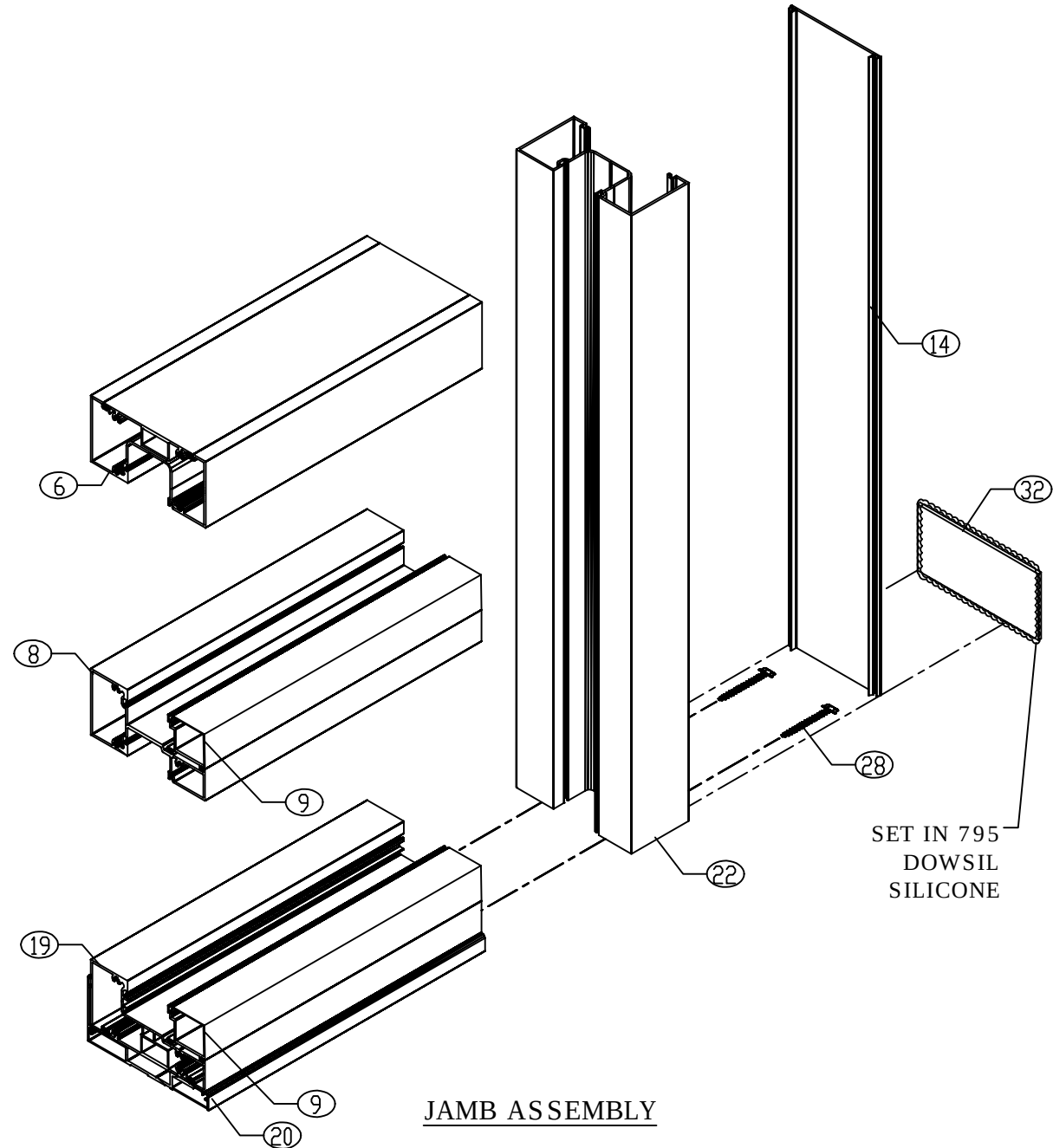
SCALE: NTS UNLESS NOTED

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MULLION ASSEMBLY



JAMB ASSEMBLY

NOTE:
SEAL ALL CORNERS WITH
DOWSIL 795 SILICONE

FL#15936.1

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