



515 N. FRALEY STREET
KANE, PA 16735

Hurri-Kane Shield
Level 3 Storm Barriers

"IMPACT"

GENERAL NOTES

1.

This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2.

Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3.

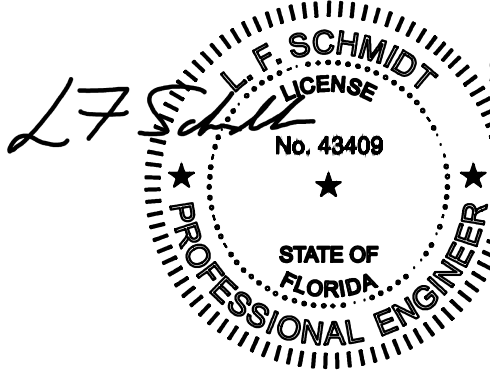
When used in the HVHZ, this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
4.

When used in areas outside the "HVHZ" requiring wind borne debris protection, this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "E" and includes Wind Zone 4 as defined in ASTM E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5.

Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6.

All steel shall be protected as specified in Section 2222.6 of the FBC.

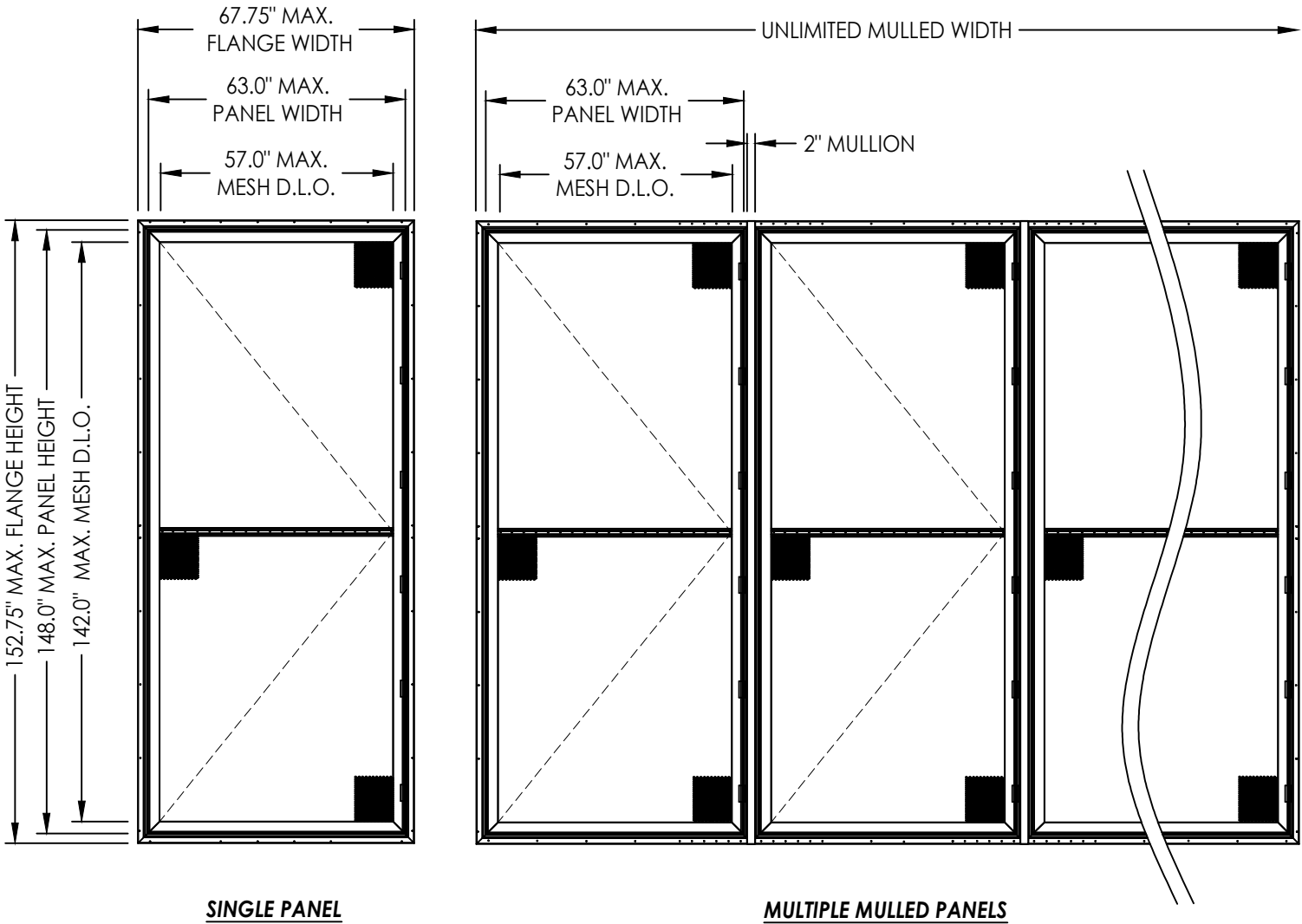
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2	Panel details
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6	Horizontal and vertical cross sections
7	Glass separation vertical cross sections
8	Single panel frame anchoring
9	Multiple mulled panels frame anchoring
10	Single panel frame anchoring
11	Multiple mulled panels frame anchoring
12	Bill of materials and components



Digitally signed by Lyndon F Schmidt
Date: 2025.02.03 07:42:39 -05'00'

This item has been digitally signed and sealed by L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA



ORIENTATION	MAX OVERALL FLANGE DIMENSION	MAX OVERALL PANEL DIMENSION	DESIGN PRESSURE (PSF) without Porosity Factor		DESIGN PRESSURE (PSF) with Porosity Factor *	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
VERTICAL	67.75" X 152.75"	63.0" X 148.0"	+62.0	-70.0	+102.0	-115.0
HORIZONTAL	152.75" X 67.75"	148.0" X 63.0"	+62.0	-62.0	+102.0	-102.0

See Sheet 3 for Horizontal Orientation Elevations

* NOTE: The Design Pressure shown has been increased for the porosity of the barrier (61%). The consideration of the use of the porosity factor is at the discretion of the Design Professional or the Authority Having Jurisdiction.

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT: Storm Barriers

DATE: 3/20/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-10238.4

SHEET 1 OF 14

Part or Assembly:
TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

REVISIONS

DATE 2/03/25
4
UPDATE TO 8TH ED. (2023) FBC

DATE 1/18/21
3
UPDATE TO 7TH ED. (2020) FBC

DATE 6/08/18
2
CORRECT GENERAL NOTE 4

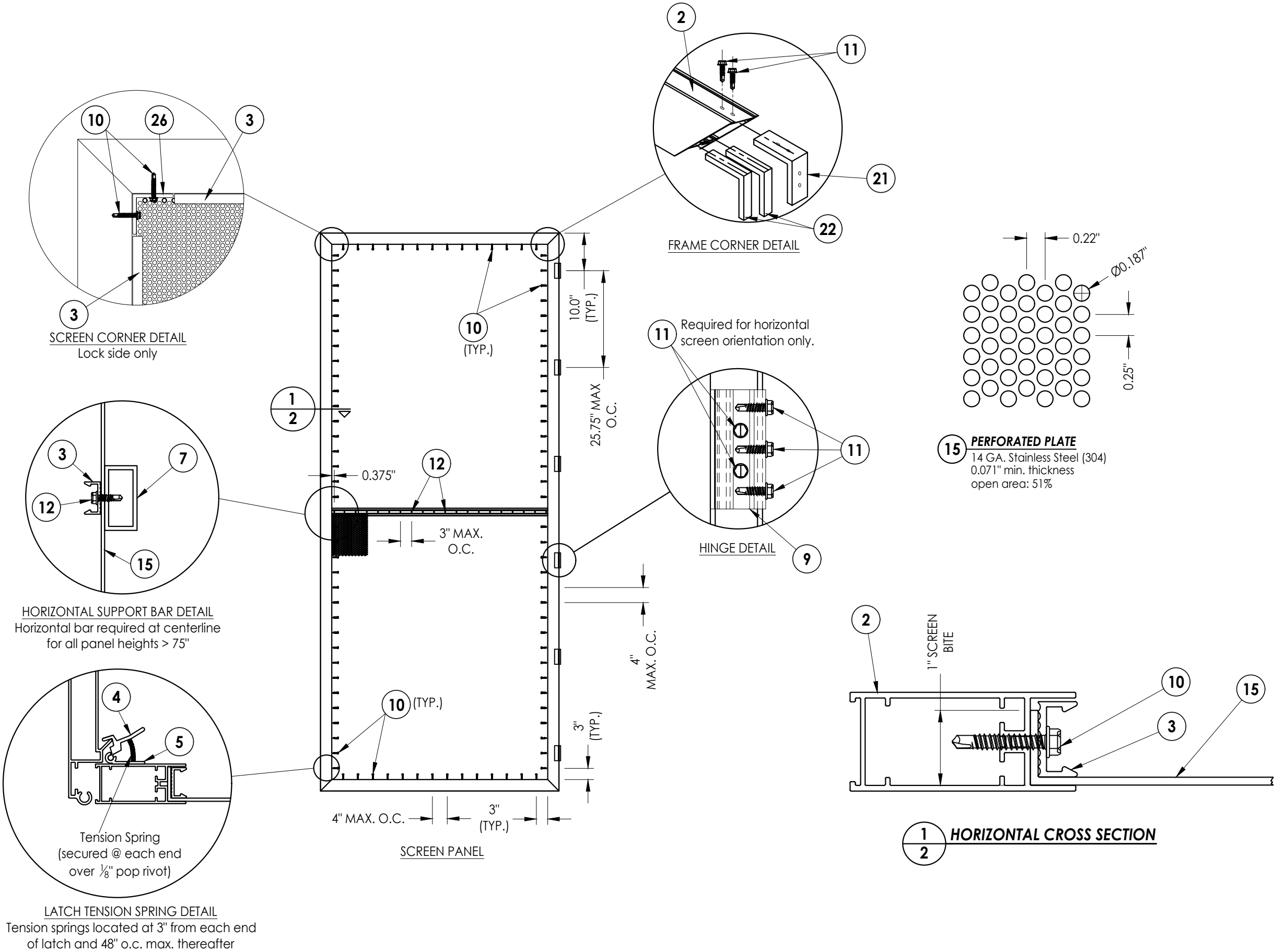
DATE 9/26/17
1
UPDATE TO 6TH ED. (2017) FBC

NO. DATE

BY JK

Building Consultants, Inc.
P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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P.E. No. 43409

BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:

Storm Barriers

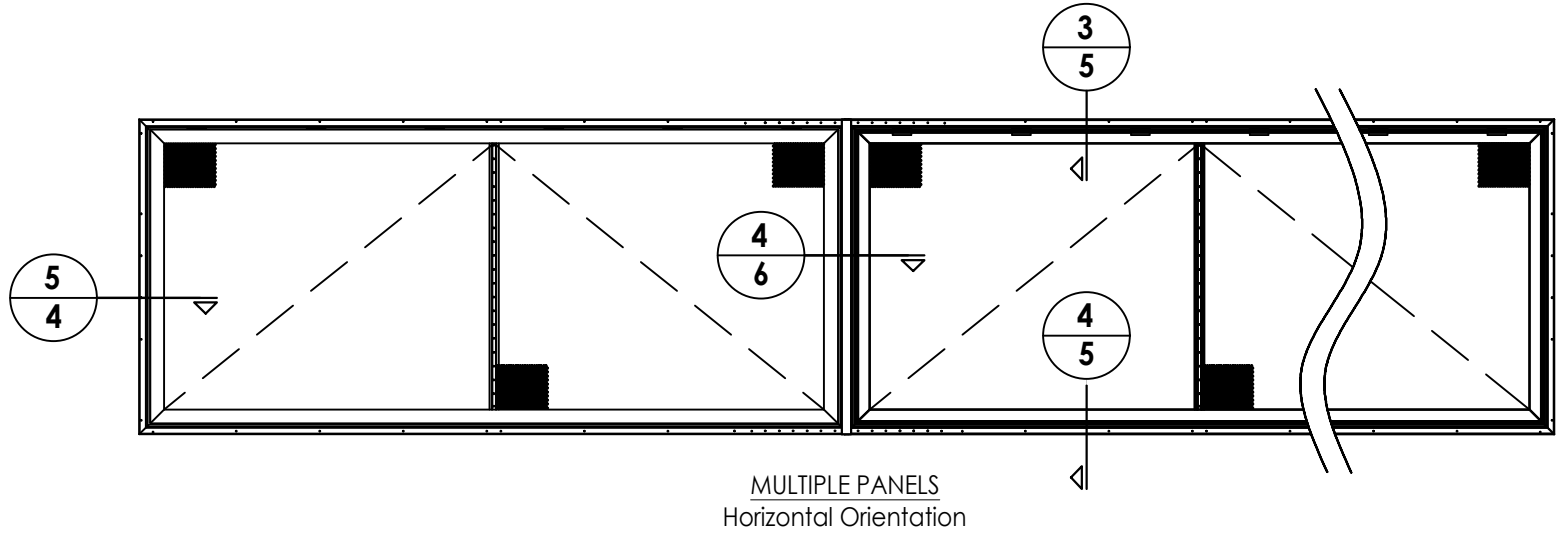
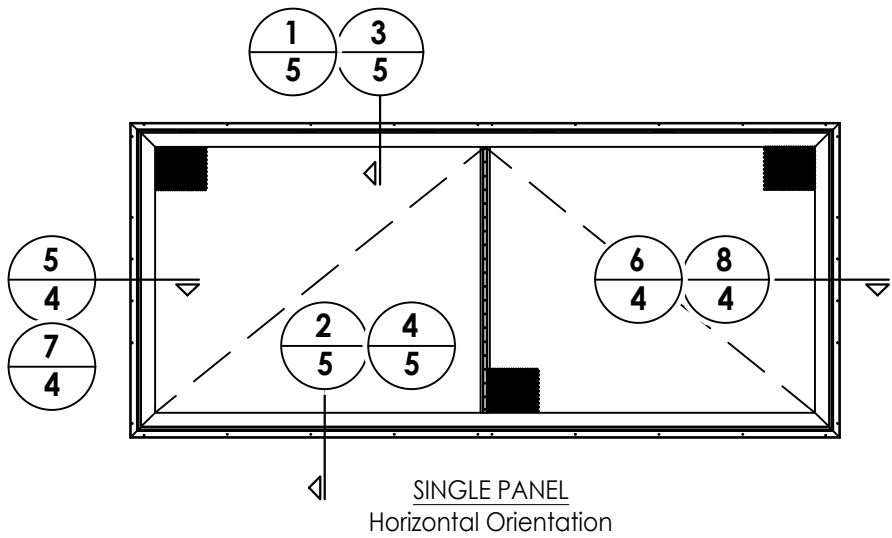
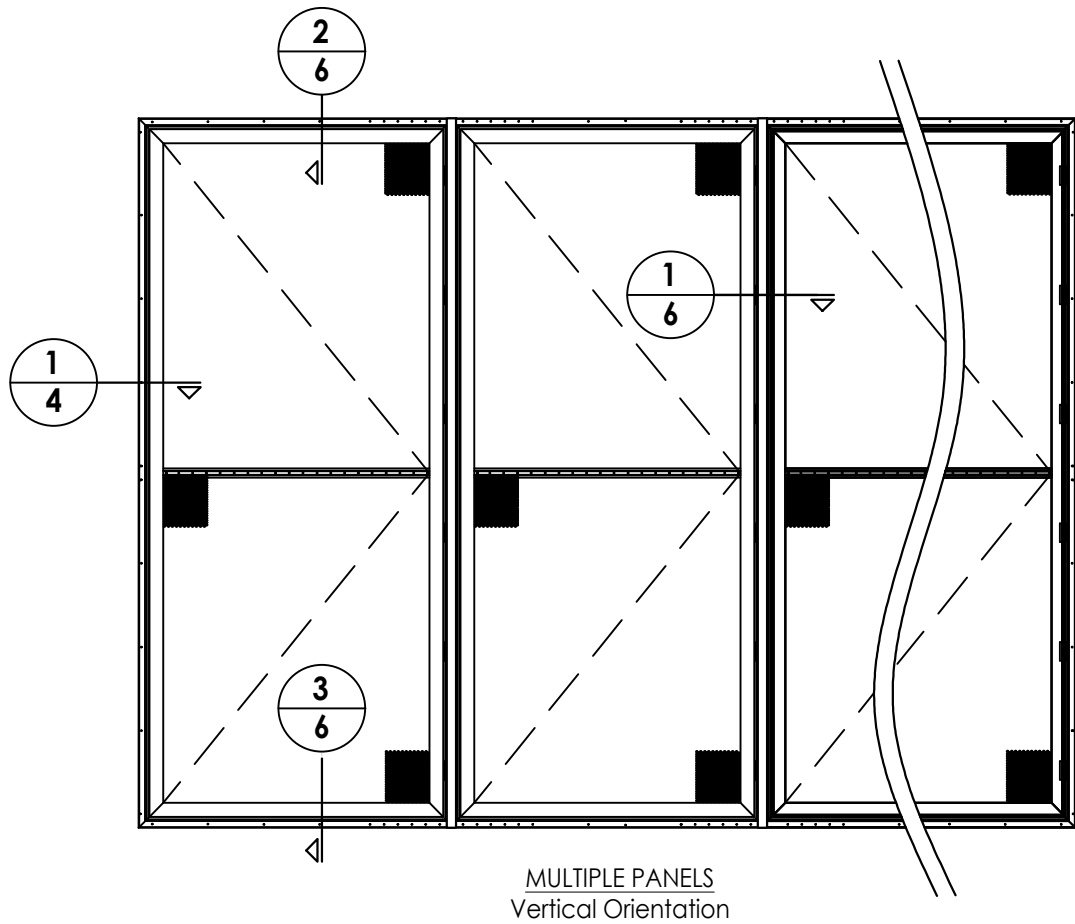
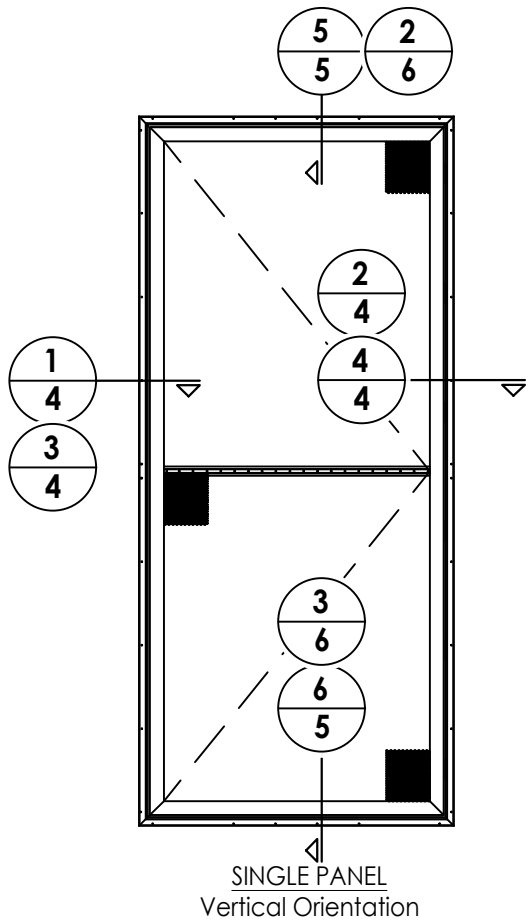
PART OR ASSEMBLY:

PANEL DETAILS

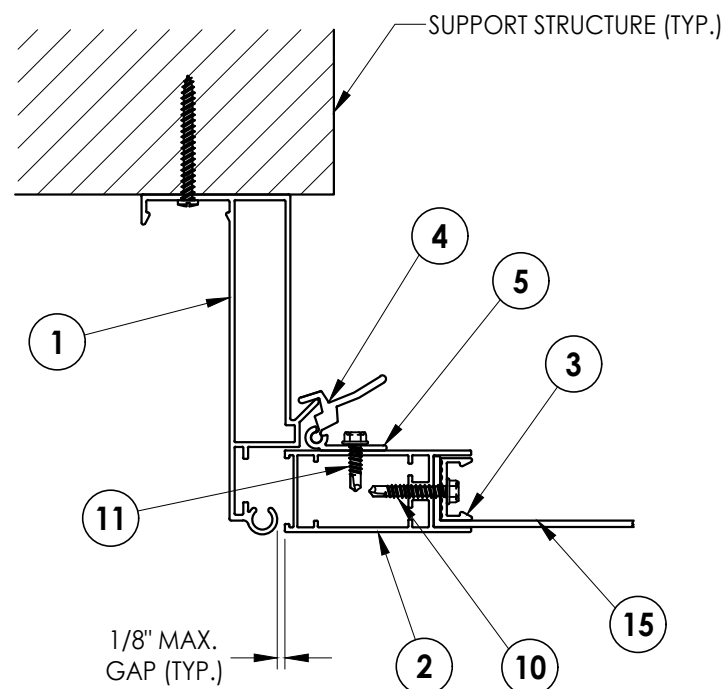
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3	1/18/21	UPDATE TO 7TH ED. (2020) FBC
2	6/08/18	CORRECT GENERAL NOTE 4
1	9/26/17	UPDATE TO 6TH ED. (2017) FBC

DATE:	3/20/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-10238.4
SHEET	2 OF 14

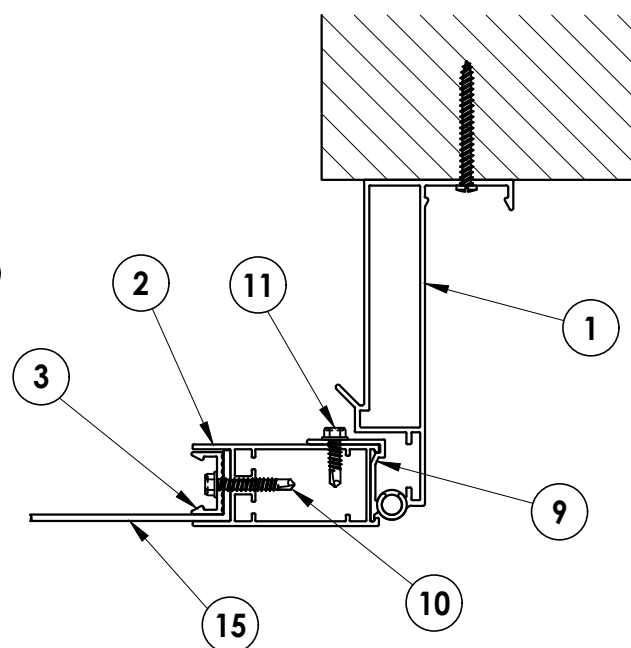
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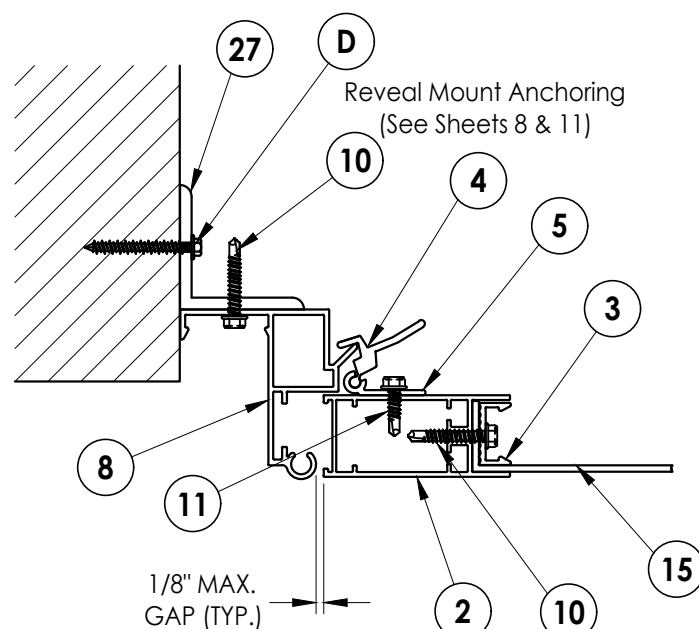
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: Storm Barriers		PART OR ASSEMBLY: ELEVATIONS	
4	2/03/25	UPDATE TO 8TH ED. (2023)	FBC
3	1/18/21	UPDATE TO 7TH ED. (2020)	FBC
2	6/08/18	CORRECT GENERAL NOTE 4	LFS
1	9/26/17	UPDATE TO 6TH ED. (2017)	JK
NO.	DATE		BY
REVISIONS			
DATE: 3/20/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-10238.4			
SHEET 3 OF 14			



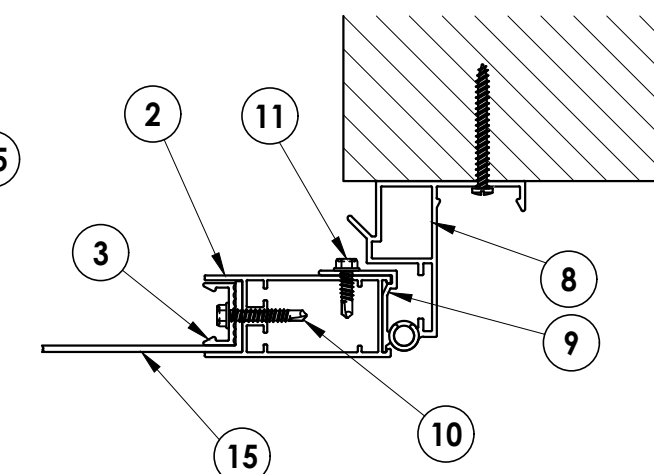
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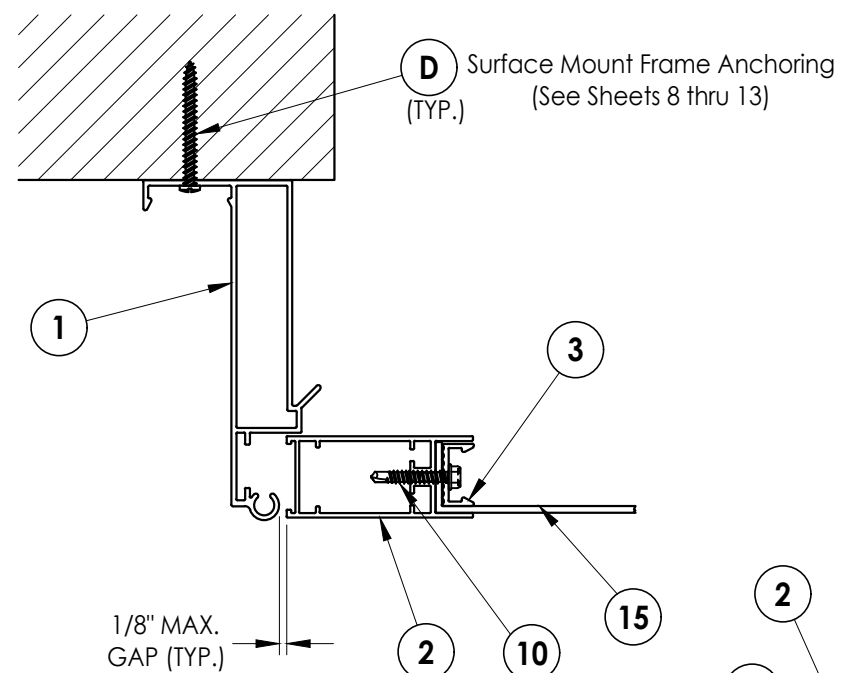
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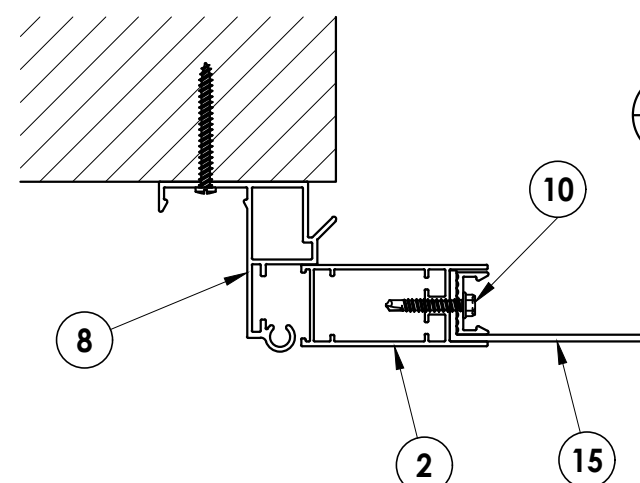
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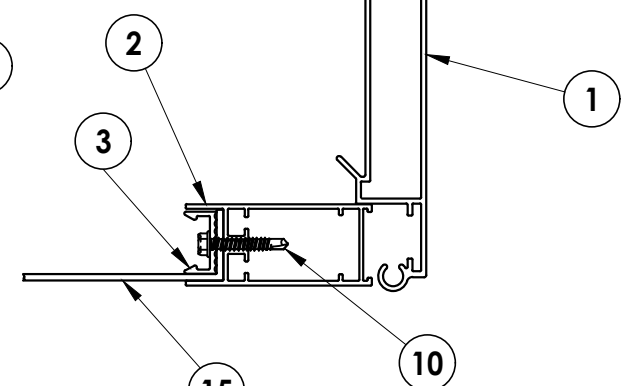
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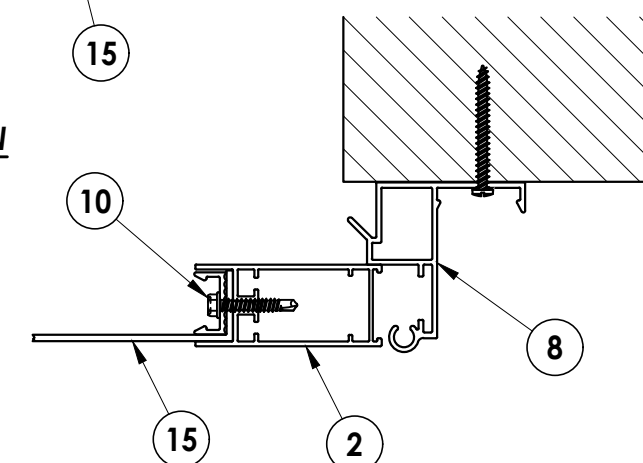
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7/4 HORIZONTAL CROSS SECTION



6/4 HORIZONTAL CROSS SECTION



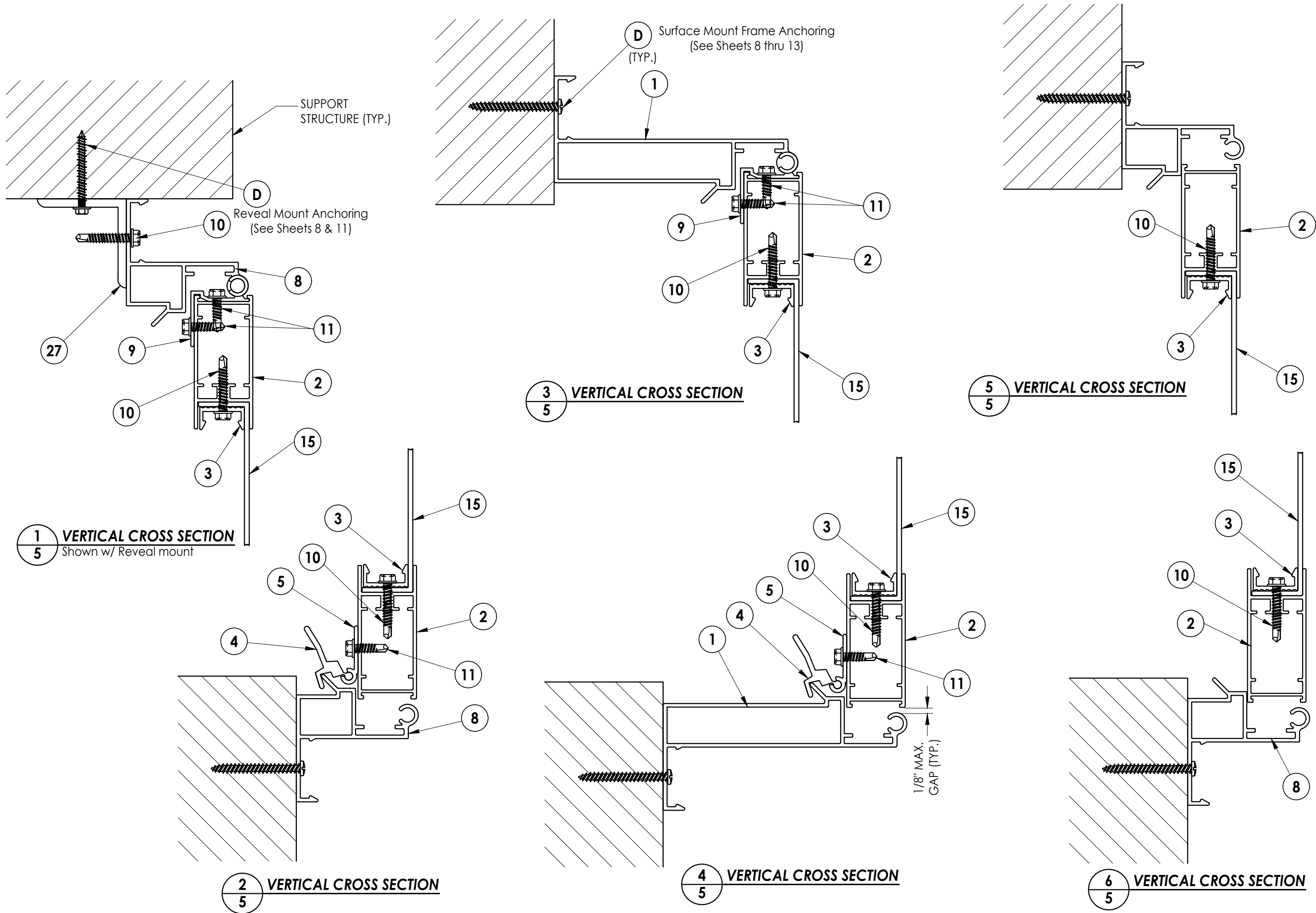
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Lyndon F. Schmidt
P.E. No. 43409

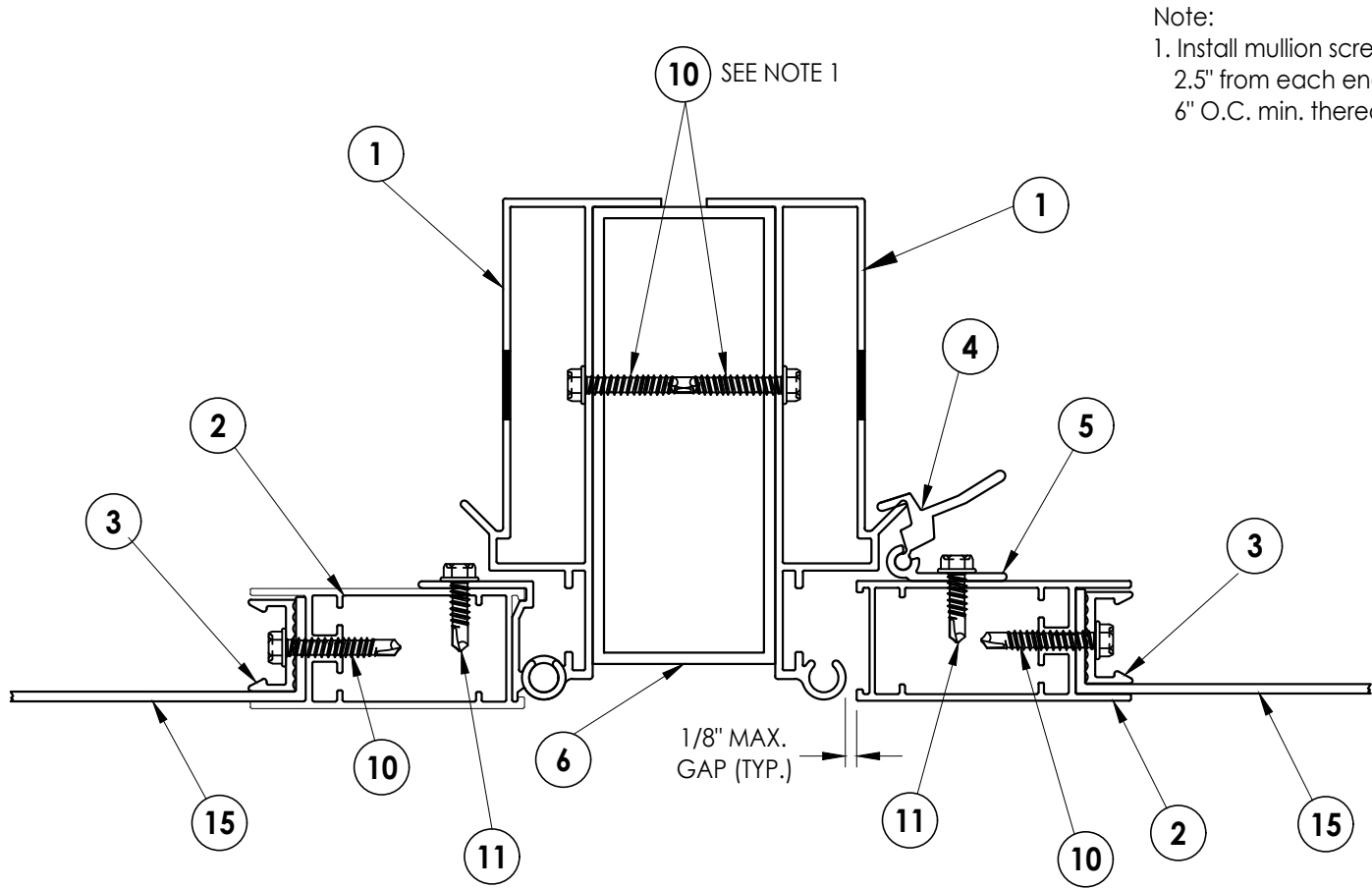
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 333
Phone No.: 813.659.9197
FBPE Registry No. 9813

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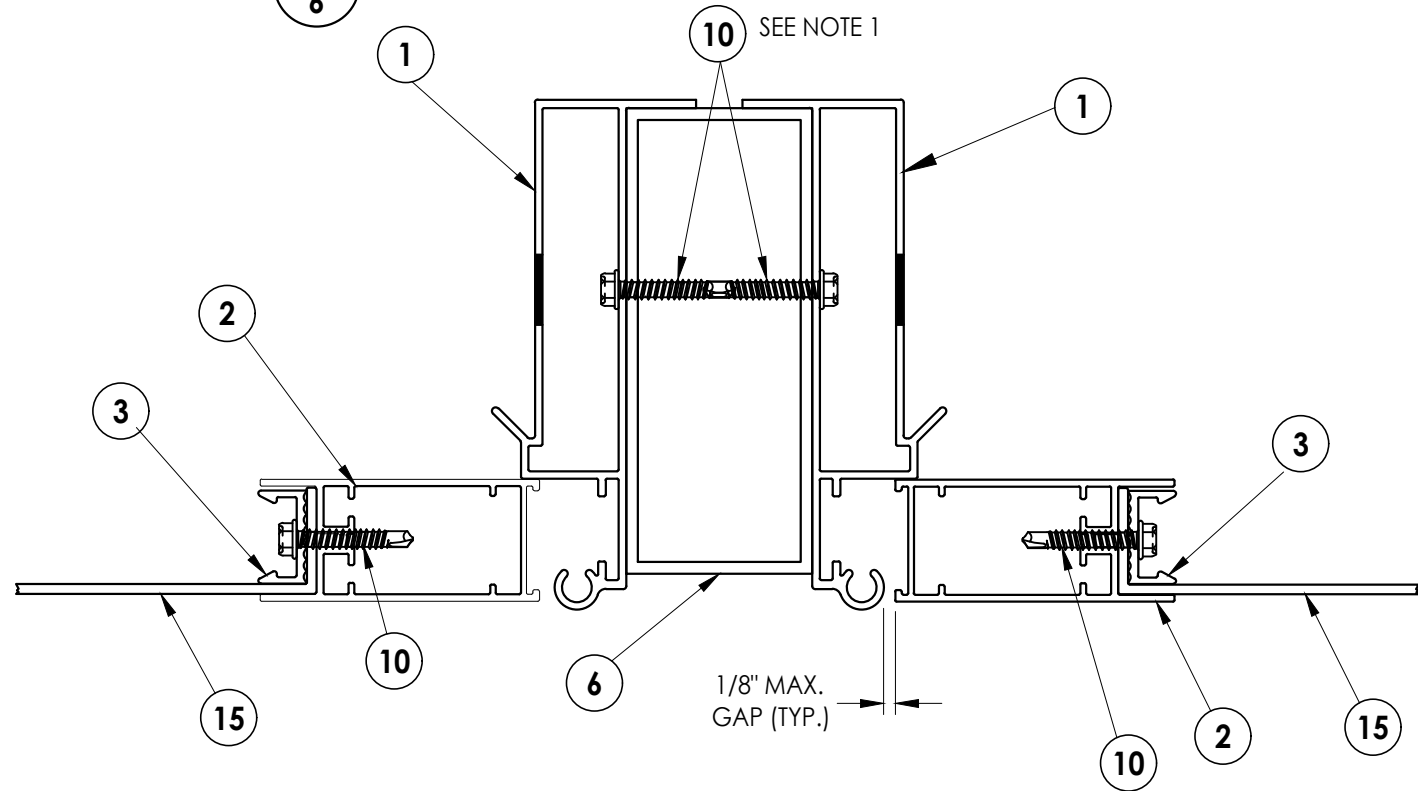


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		RWBUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: Storm Barriers		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	
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3	1/18/21	UPDATE TO 7TH ED. (2020)	FBC
2	6/08/18	CORRECT GENERAL NOTE 4	LFS
1	9/26/17	UPDATE TO 6TH ED. (2017)	FBC
NO.	DATE	REVISIONS	
DATE: 3/20/17		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-10238.4		SHEET 5 OF 14	

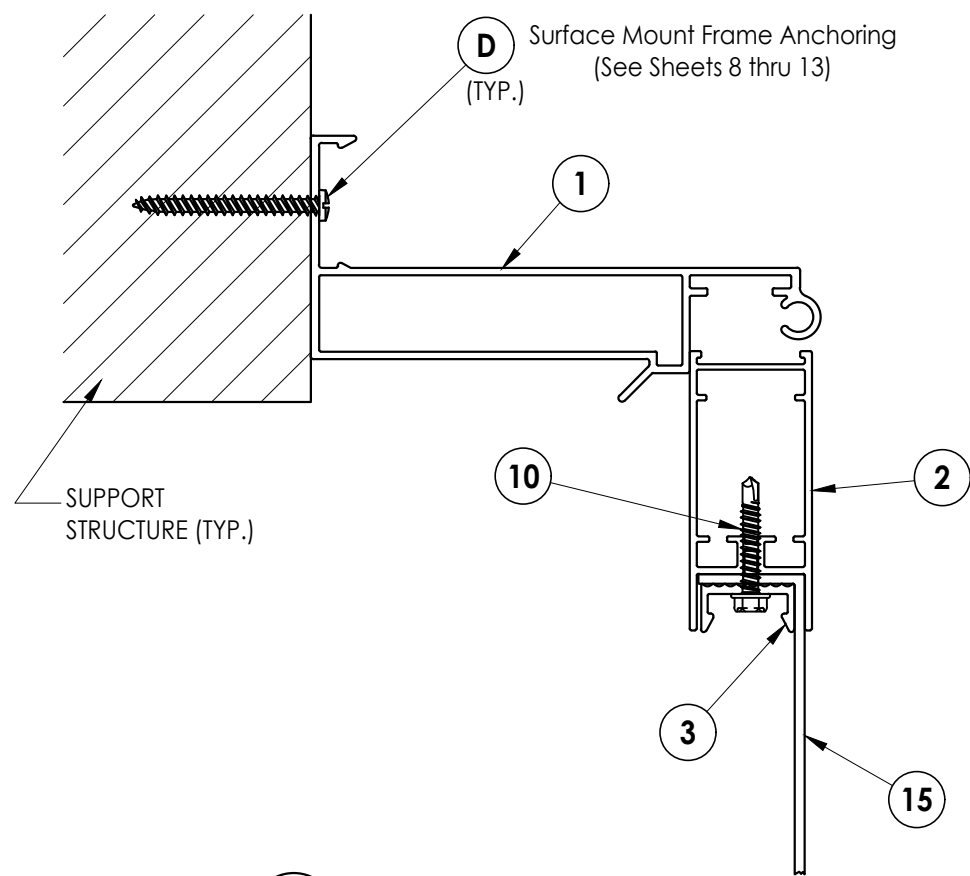
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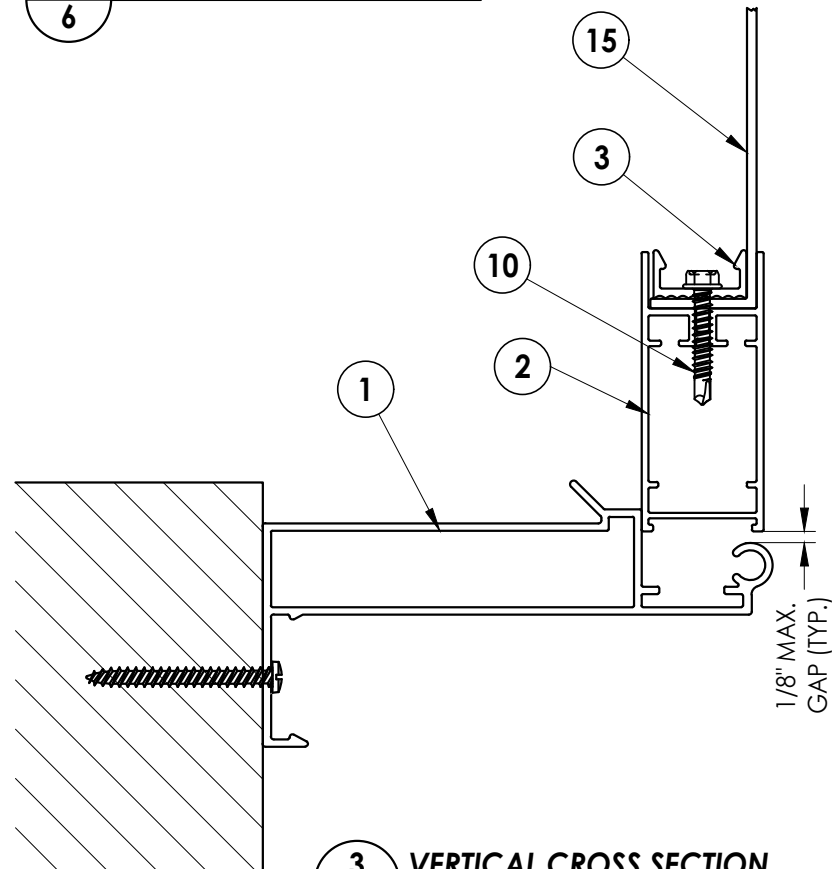
1
6 HORIZONTAL CROSS SECTION



4
6 HORIZONTAL CROSS SECTION



2
6 VERTICAL CROSS SECTION



3
6 VERTICAL CROSS SECTION

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:	
Storm Barriers	
PART OR ASSEMBLY:	
HORIZONTAL & VERTICAL CROSS SECTIONS	

NO.	DATE				
4	2/03/25	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	1/18/21	UPDATE TO 7TH ED. (2020)	FBC	LFS	
2	6/08/18	CORRECT GENERAL NOTE 4	LFS	JK	
1	9/26/17	UPDATE TO 6TH ED. (2017)	FBC	BY	
REVISIONS					

DATE: 3/20/17

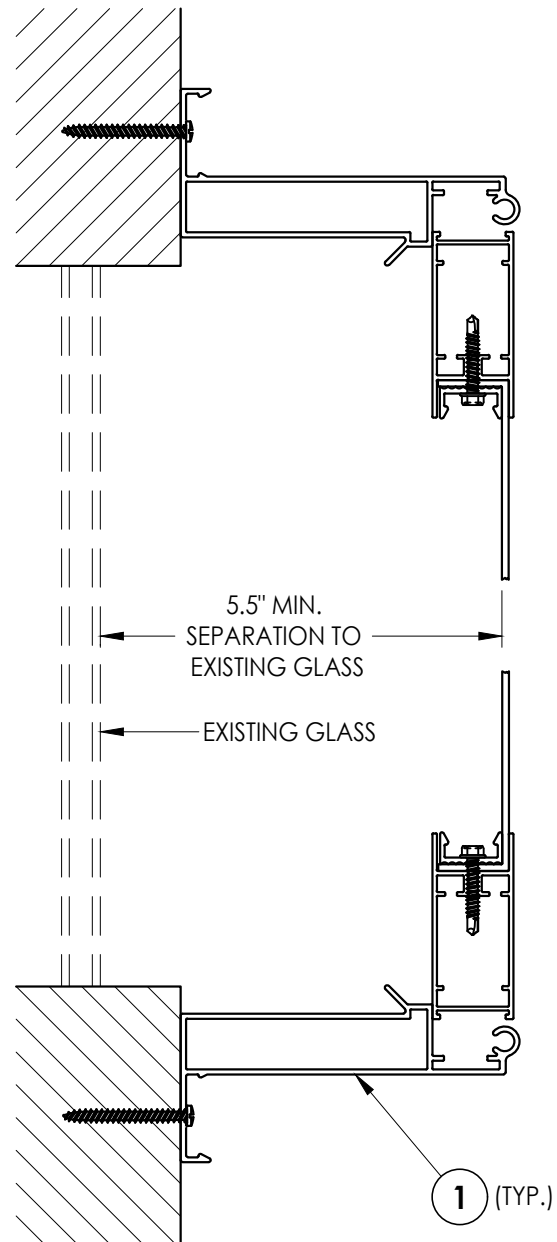
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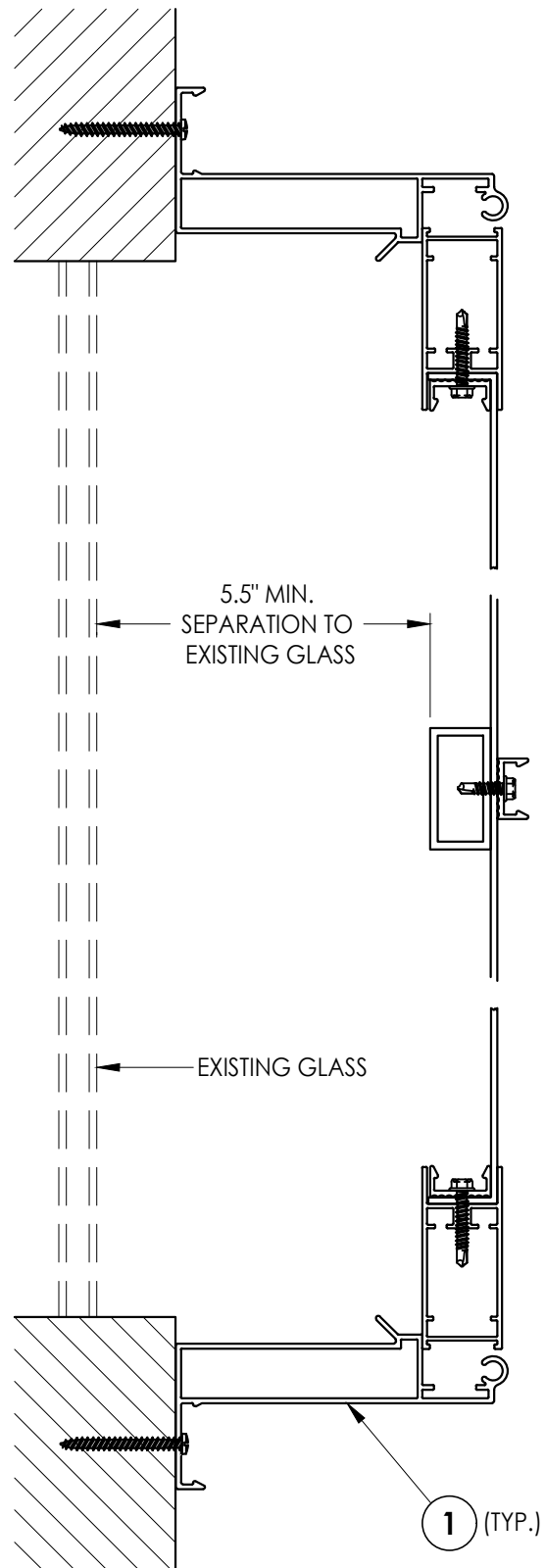
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DRAWING NO.: FL-10238.4

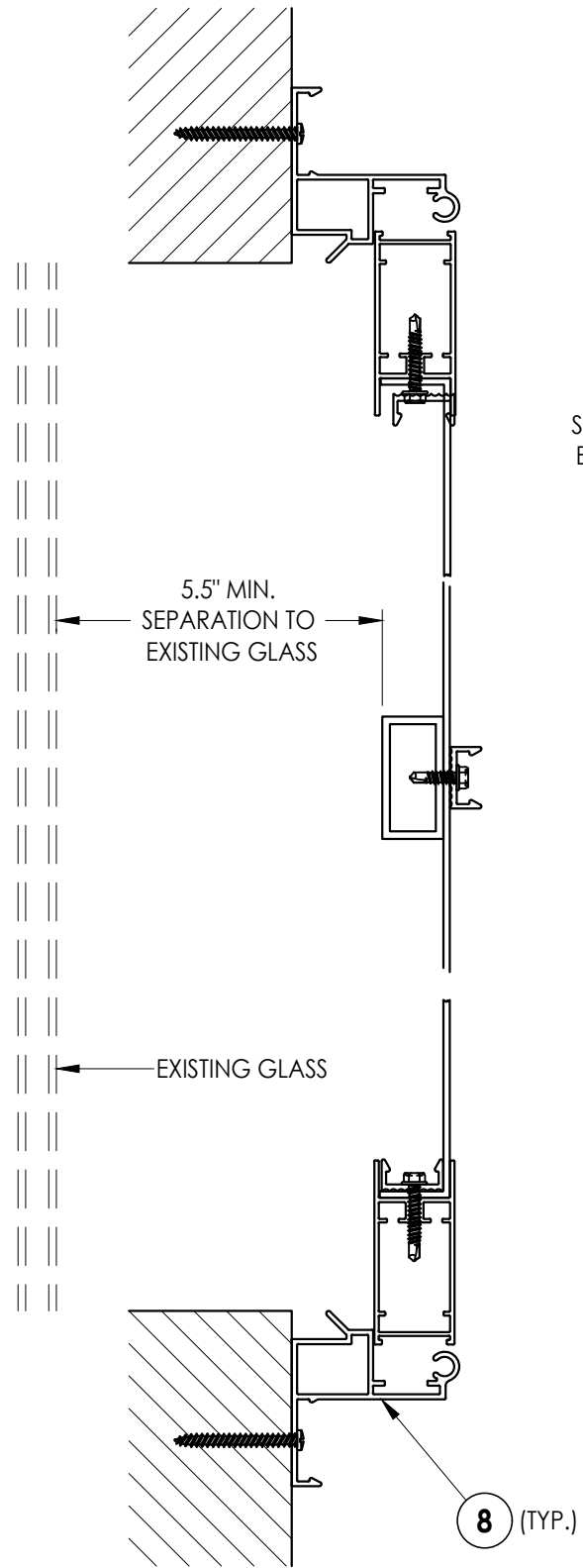
SHEET 6 OF 14



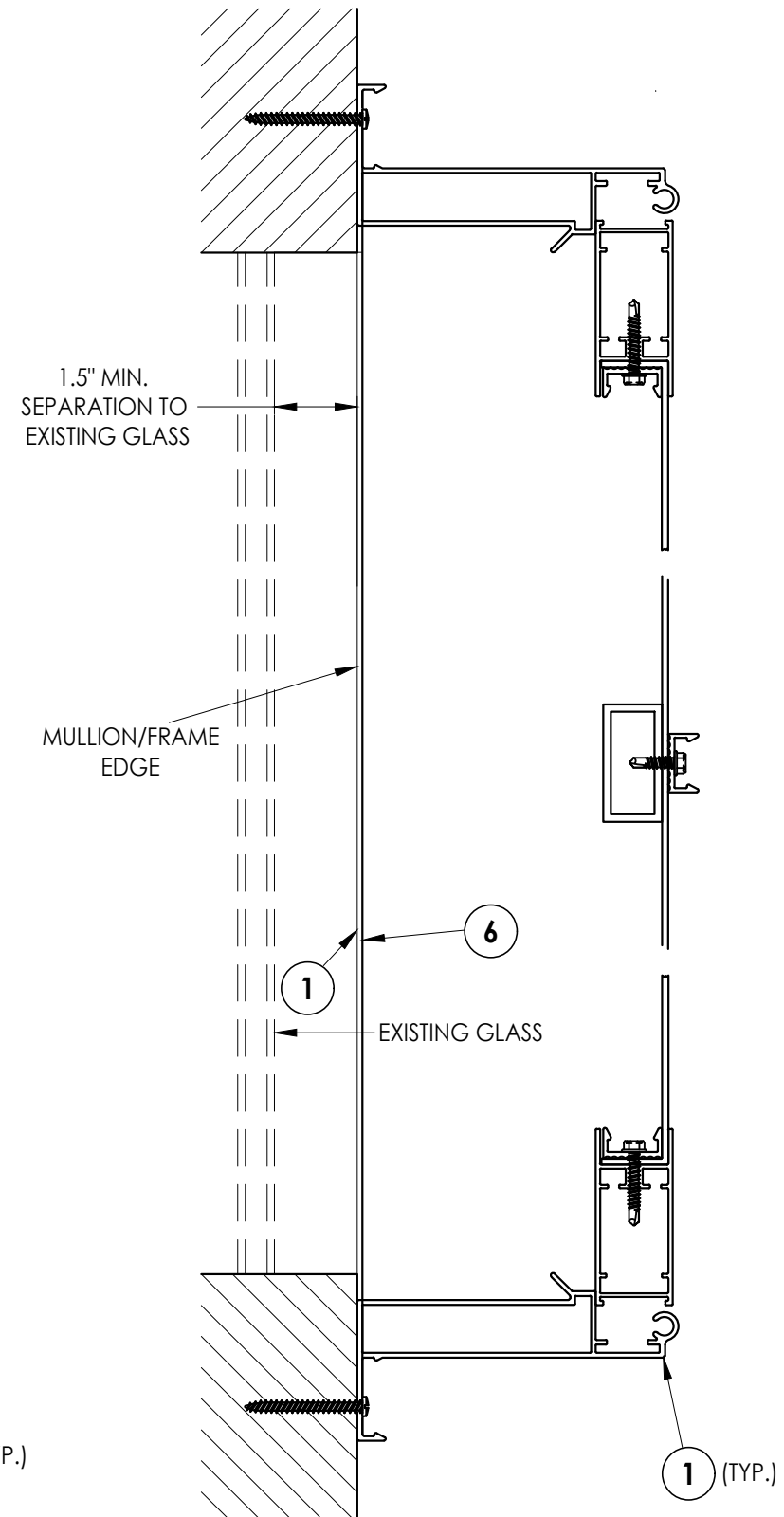
SINGLE PANEL GLASS SEPARATION w/o SUPPORT BAR
Vertical orientation shown (max. panel height = 75")
Horizontal orientation similar (max. panel length = 75")



SINGLE PANEL GLASS SEPARATION w/ SUPPORT BAR
Vertical orientation shown
Horizontal orientation similar



MULTIPLE MULLED PANELS GLASS SEPARATION
Vertical orientation only

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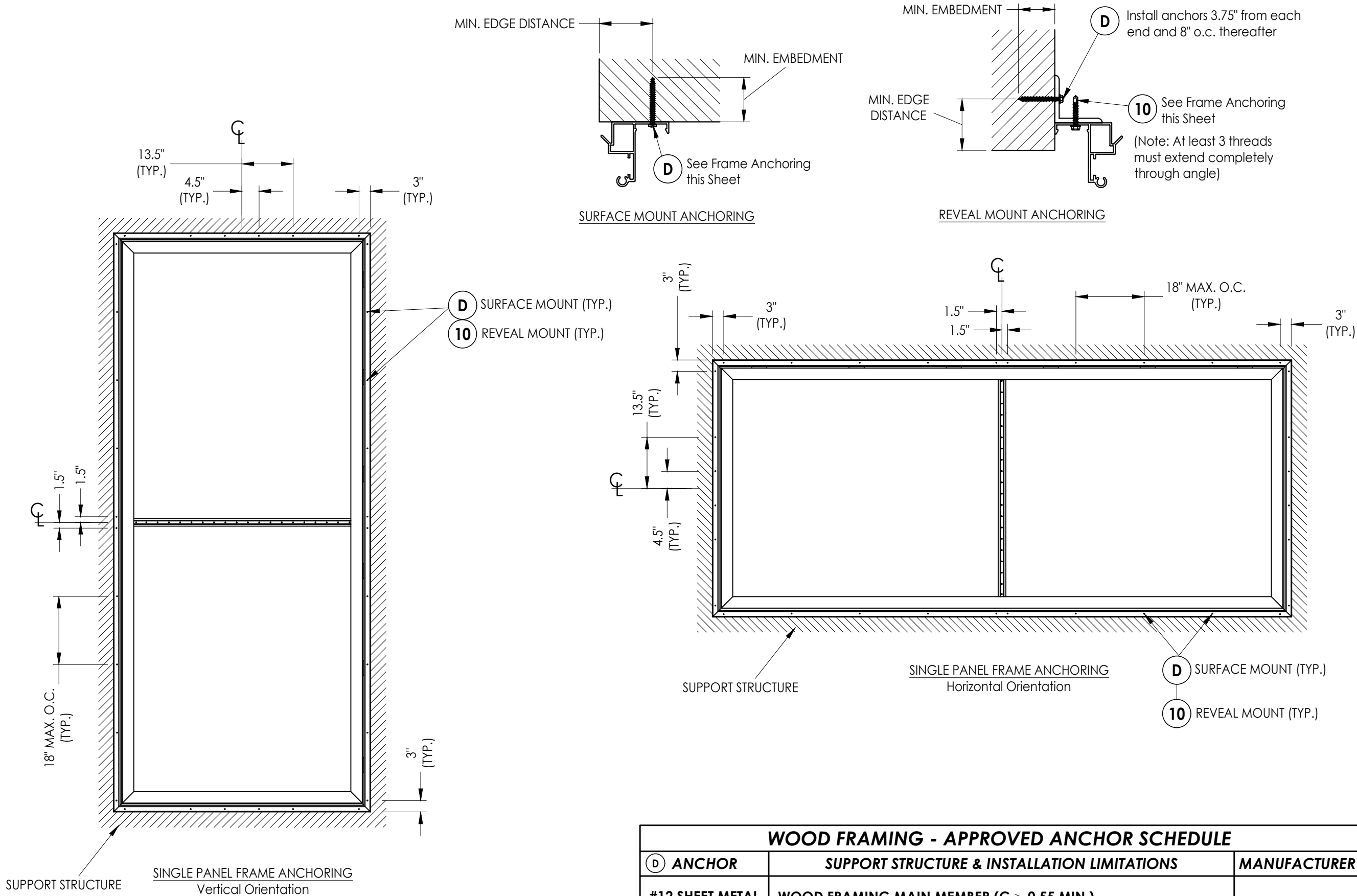
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

Storm Barriers

PART OR ASSEMBLY: GLASS SEPARATION
VERTICAL CROSS SECTIONS

R_W
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

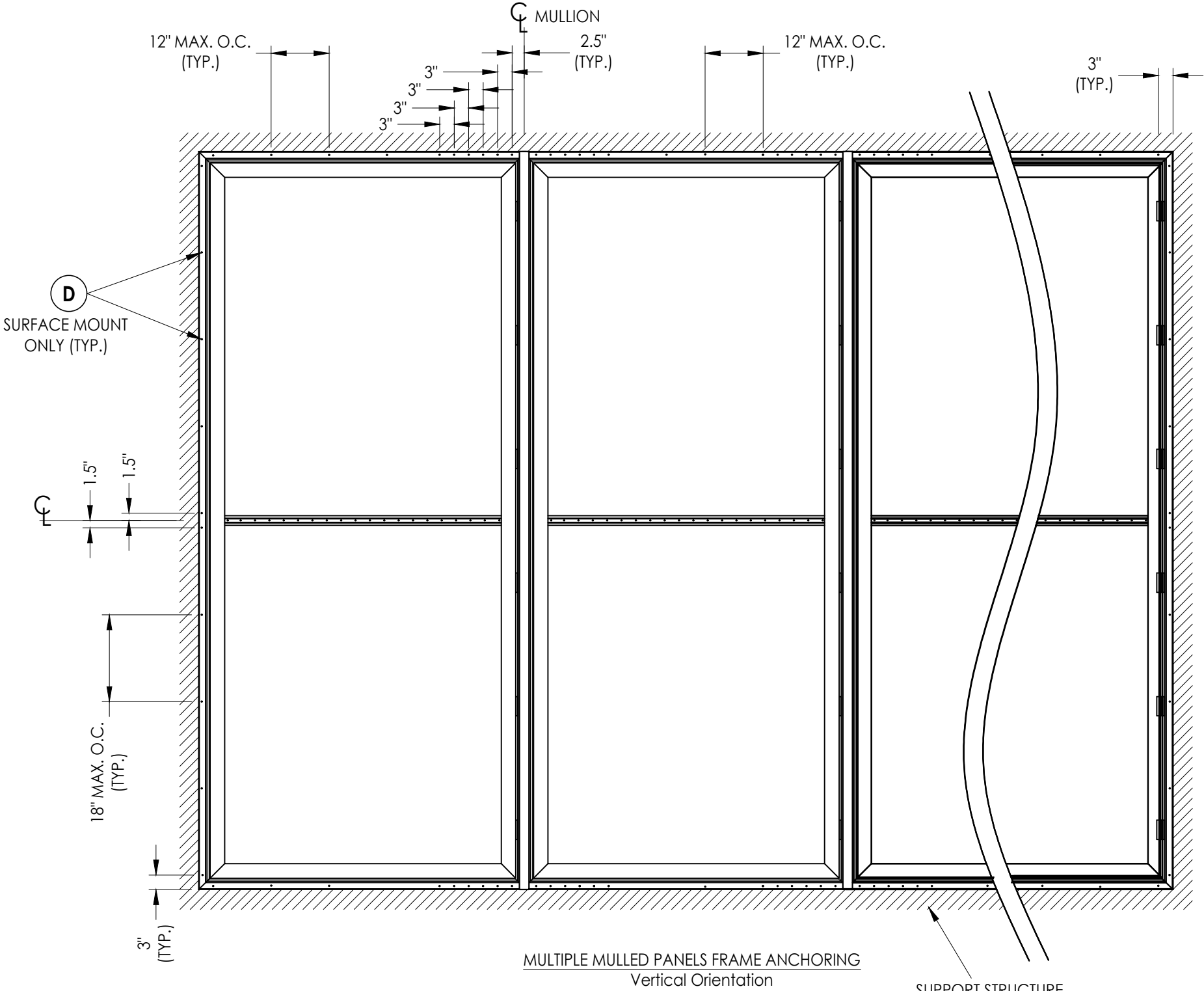
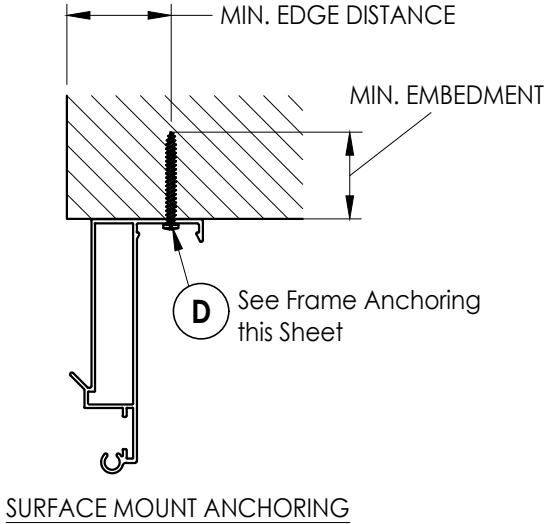
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WOOD FRAMING - APPROVED ANCHOR SCHEDULE		
D ANCHOR	SUPPORT STRUCTURE & INSTALLATION LIMITATIONS	MANUFACTURER
#12 SHEET METAL SCREW	WOOD FRAMING MAIN MEMBER ($G \geq 0.55$ MIN.) EMBEDMENT = 1.75" MIN., EDGE DISTANCE = 0.75" MIN.	N/A

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: Storm Barriers		PART OR ASSEMBLY: SINGLE PANEL FRAME ANCHORING	
4	2/03/25	UPDATE TO 8TH ED. (2023)	FBC
3	1/18/21	UPDATE TO 7TH ED. (2020)	FBC
2	6/08/18	CORRECT GENERAL NOTE 4	LFS
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NO.	DATE		BY
REVISIONS			
DATE: 3/20/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-10238.4			
SHEET 8 OF 14			

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WOOD FRAMING - APPROVED ANCHOR SCHEDULE		
D ANCHOR	SUPPORT STRUCTURE & INSTALLATION LIMITATIONS	MANUFACTURER
#12 SHEET METAL SCREW	WOOD FRAMING MAIN MEMBER ($G \geq 0.55$ MIN.) EMBEDMENT = 1.75" MIN., EDGE DISTANCE = 0.75" MIN.	N/A

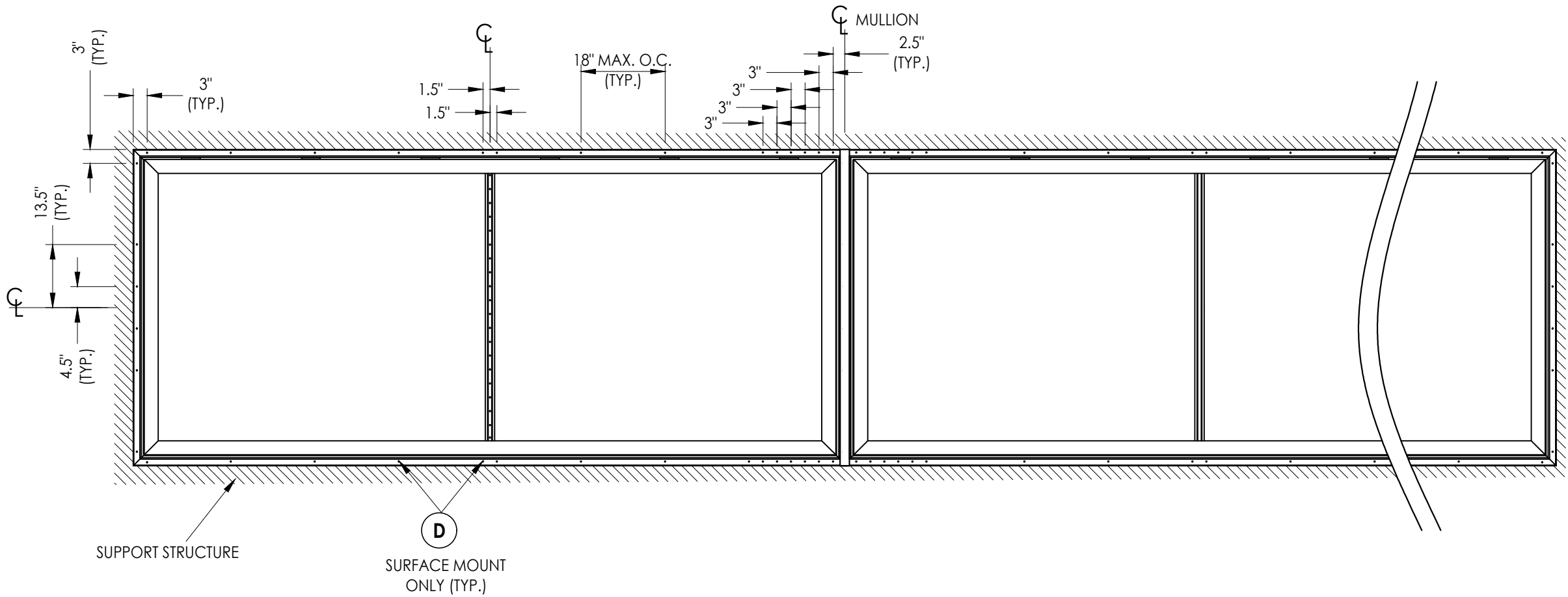
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DATE:	3/20/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-10238.4
SHEET	9 OF 14

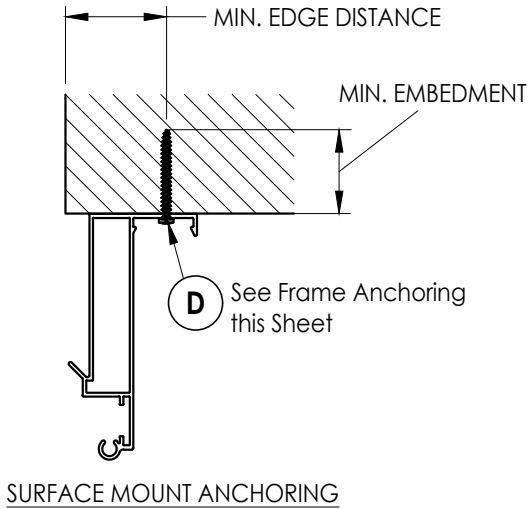
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
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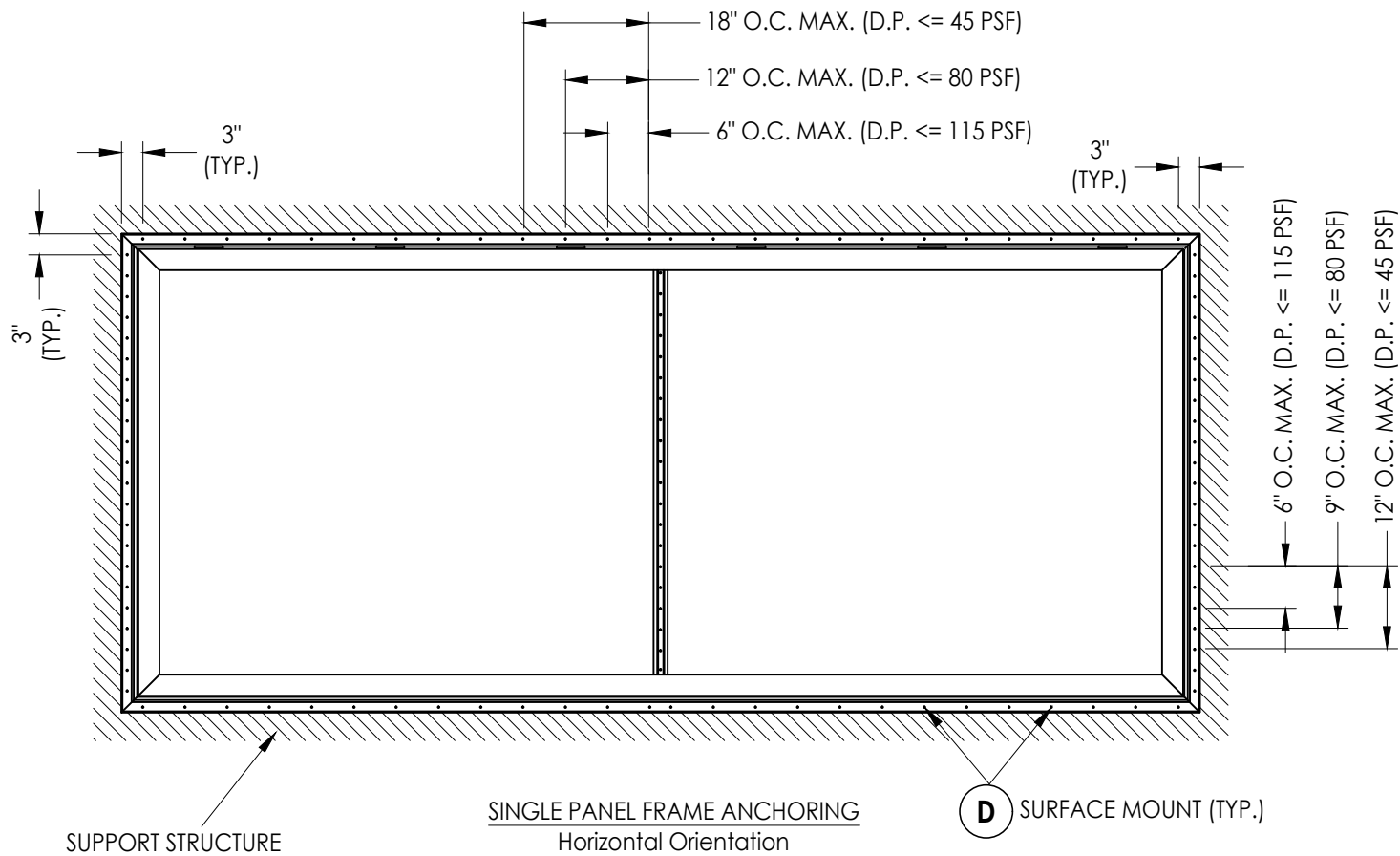
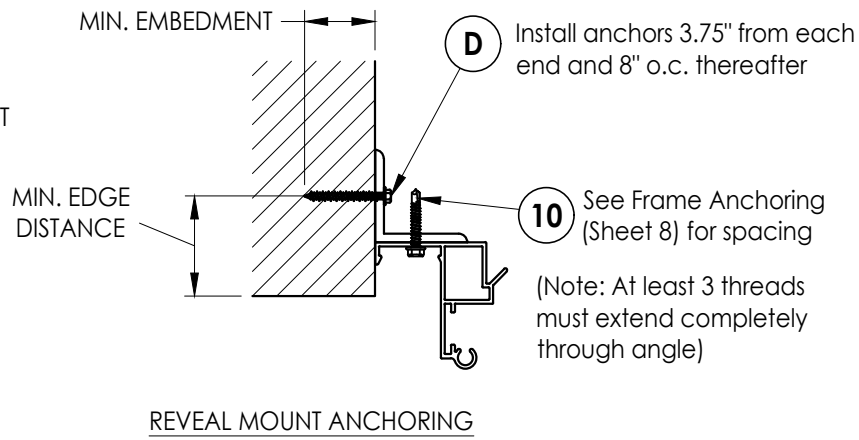
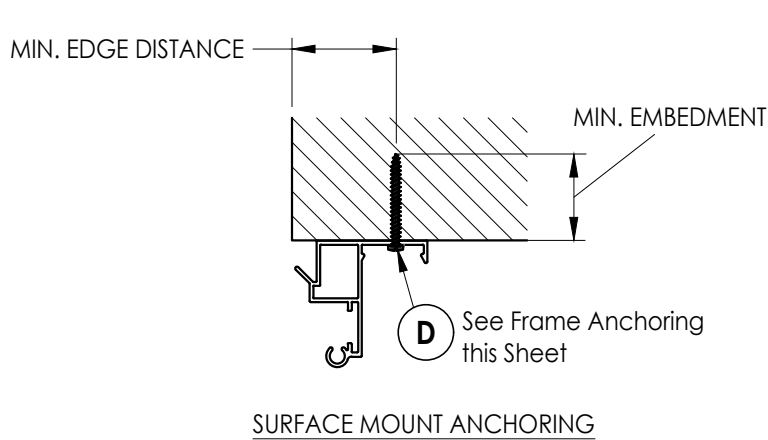
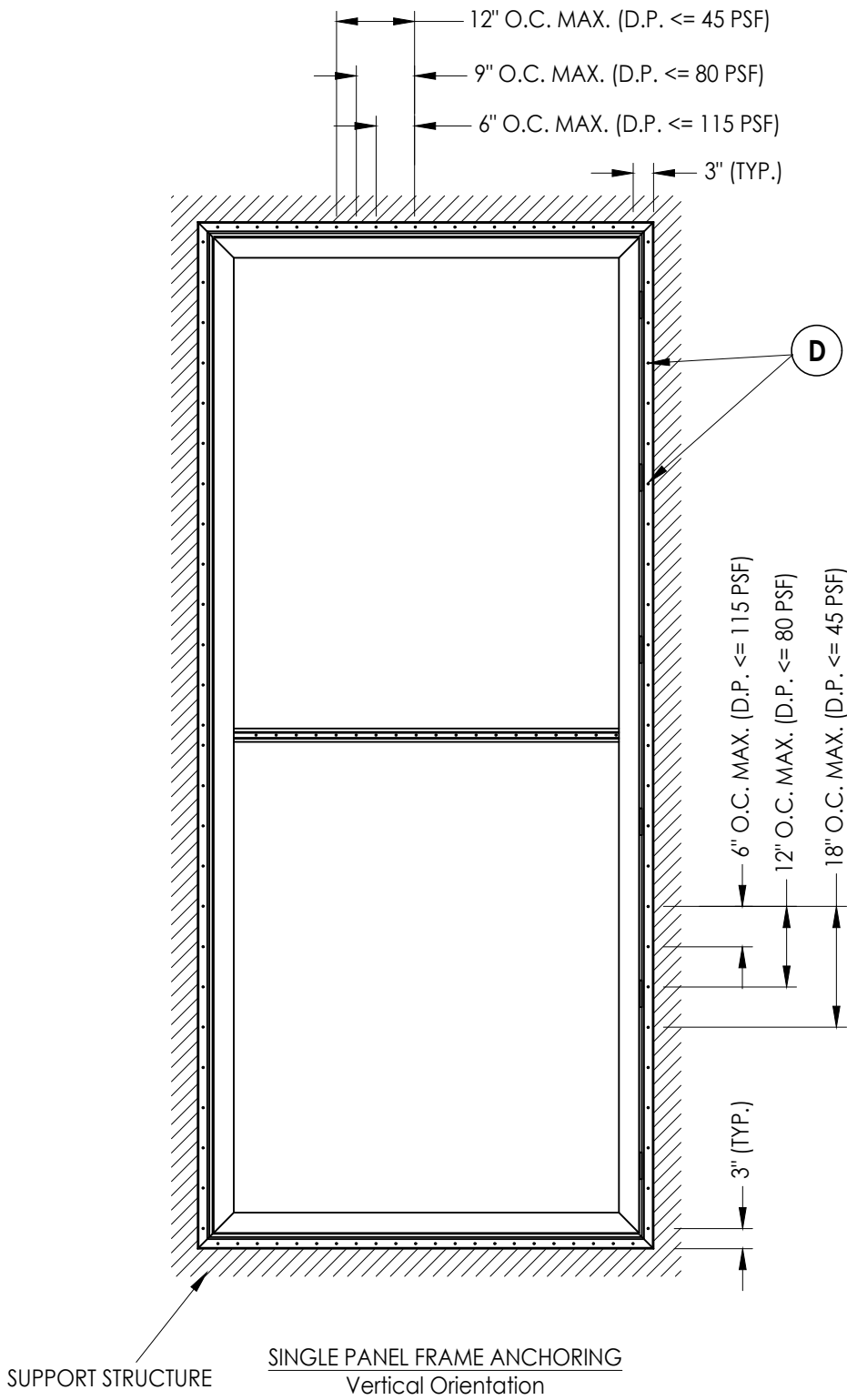
MULTIPLE MULLED PANELS FRAME ANCHORING
Horizontal Orientation



WOOD FRAMING - APPROVED ANCHOR SCHEDULE		
D ANCHOR	SUPPORT STRUCTURE & INSTALLATION LIMITATIONS	MANUFACTURER
#12 SHEET METAL SCREW	WOOD FRAMING MAIN MEMBER ($G \geq 0.55$ MIN.) EMBEDMENT = 1.75" MIN., EDGE DISTANCE = 0.75" MIN.	N/A

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PRODUCT: Storm Barriers		PART OR ASSEMBLY: MULTIPLE MULLED PANELS FRAME ANCHORING	
		LFS	LFS
		LFS	JK
		BY	
		REVISIONS	
4	2/03/25	UPDATE TO 8TH ED. (2023)	FBC
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DWG. BY: JK			
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DRAWING NO.: FL-10238.4			
SHEET 10 of 14			

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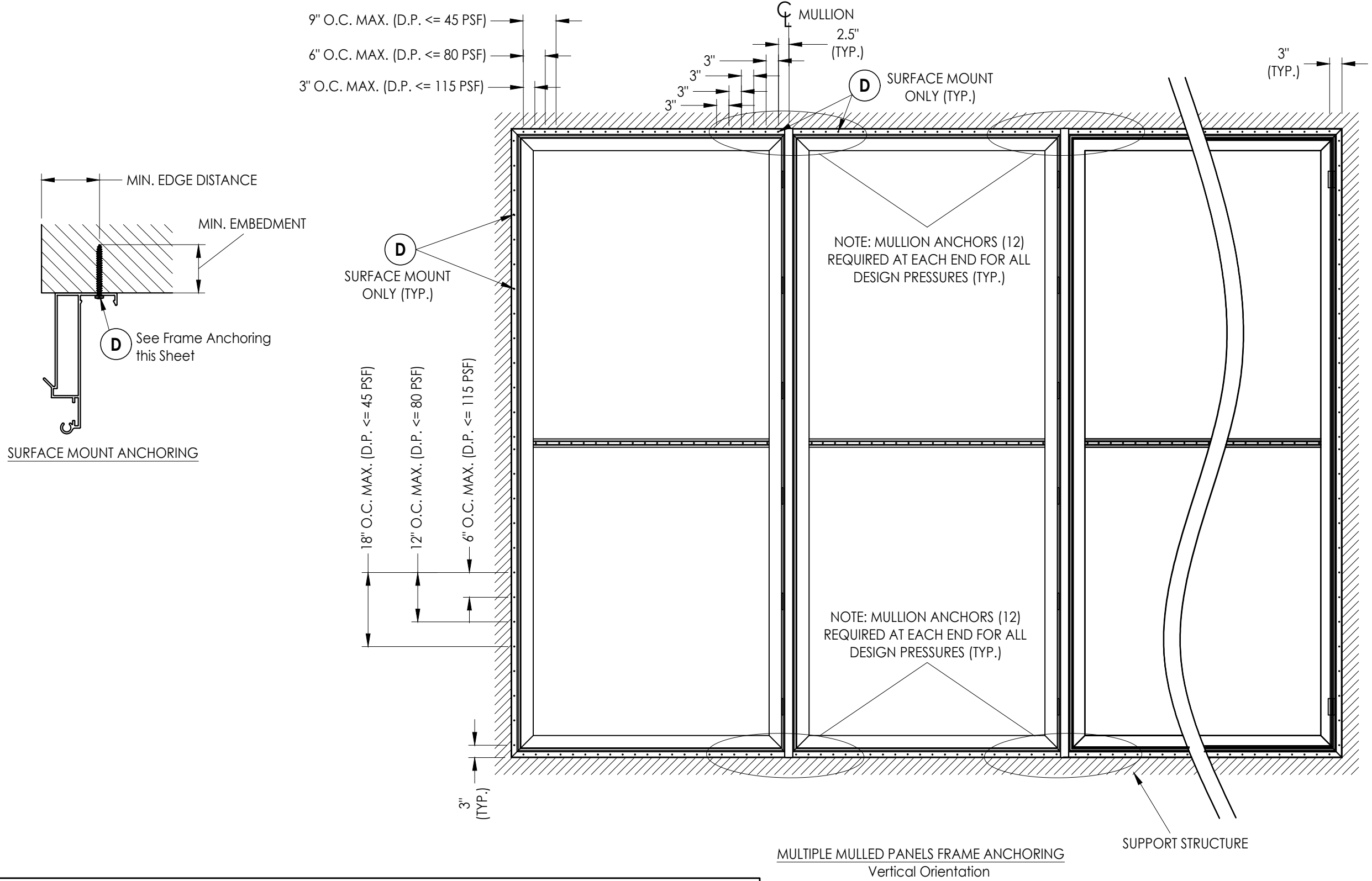


MASONRY - APPROVED ANCHOR SCHEDULE		
(D) ANCHOR	SUPPORT STRUCTURE & INSTALLATION LIMITATIONS	MANUFACTURER
1/4" CONCRETE ANCHOR	CONCRETE = 3,000 PSI MIN. (CONFORMING TO ACI 301) OR HOLLOW BLOCK (CONFORMING TO ASTM C90) EMBEDMENT = 1.25" MIN., EDGE DISTANCE = 2.5" MIN., CL = 3.0" MIN.	DeWALT ULTRACON+®

NOTE: Porosity Factor included in Design Pressures indicated.

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NO.	DATE		BY
REVISIONS			
DATE: 3/20/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-10238.4			
SHEET 11 OF 14			

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MASONRY - APPROVED ANCHOR SCHEDULE		
D ANCHOR	SUPPORT STRUCTURE & INSTALLATION LIMITATIONS	MANUFACTURER
1/4" CONCRETE ANCHOR	CONCRETE = 3,000 PSI MIN. (CONFORMING TO ACI 301) OR HOLLOW BLOCK (CONFORMING TO ASTM C90) EMBEDMENT = 1.25" MIN., EDGE DISTANCE = 2.5" MIN., CL = 3.0" MIN.	DeWALT ULTRACON+®

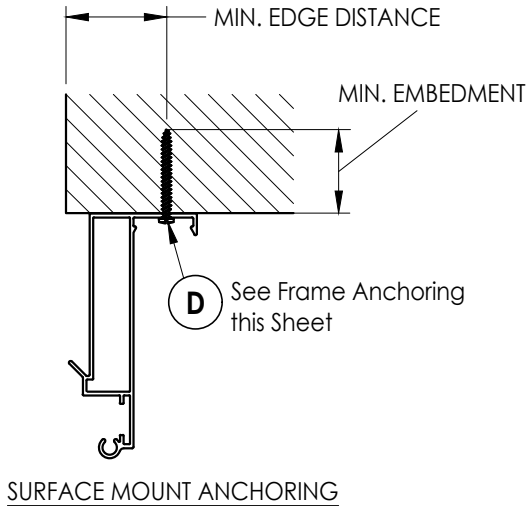
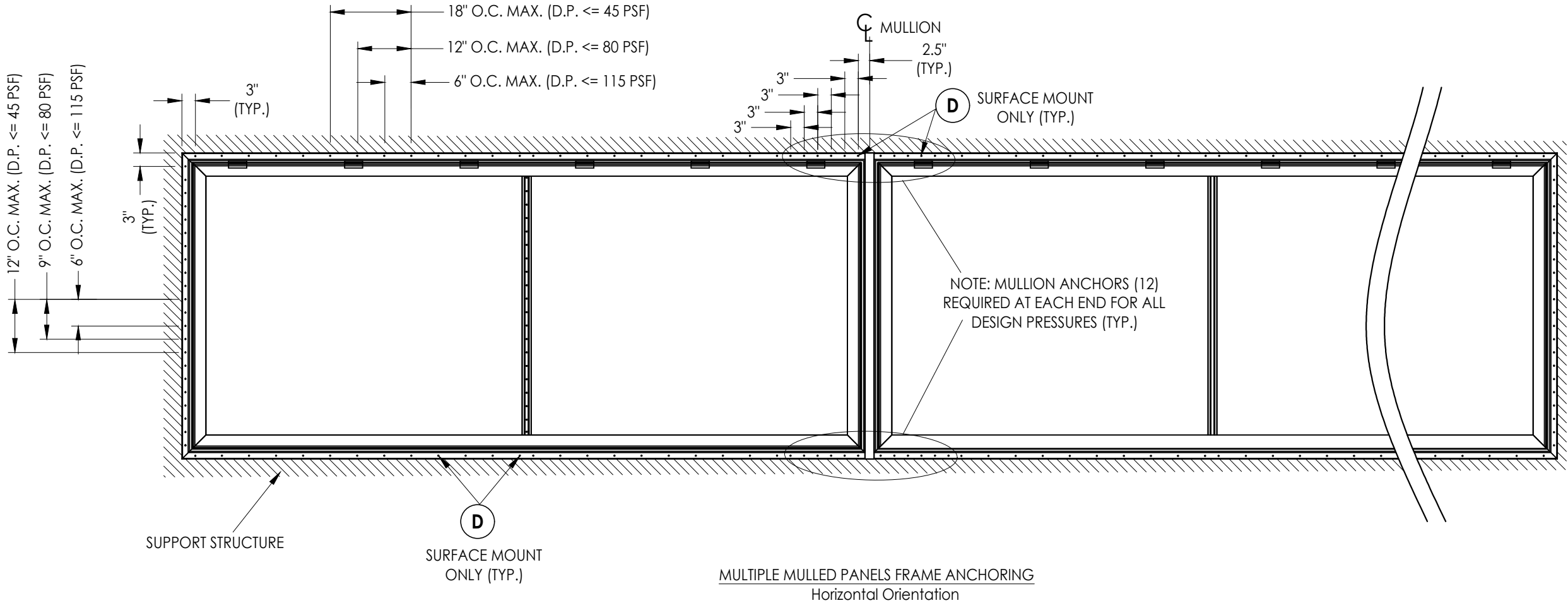
NOTE: Porosity Factor included in Design Pressures indicated.

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PRODUCT: Storm Barriers		PART OR ASSEMBLY: MULTIPLE MULLED PANELS FRAME ANCHORING	
4	2/03/25	UPDATE TO 8TH ED. (2023) FBC	LFS
3	1/18/21	UPDATE TO 7TH ED. (2020) FBC	LFS
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NO.	DATE		BY
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DATE: 3/20/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-10238.4			
SHEET 12 OF 14			

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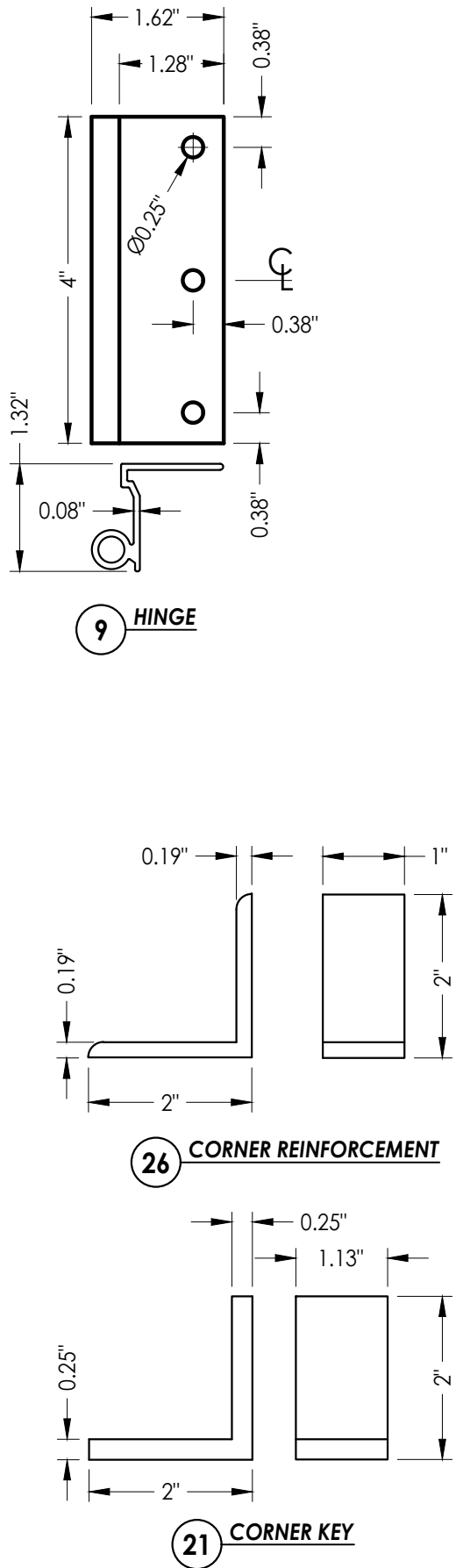
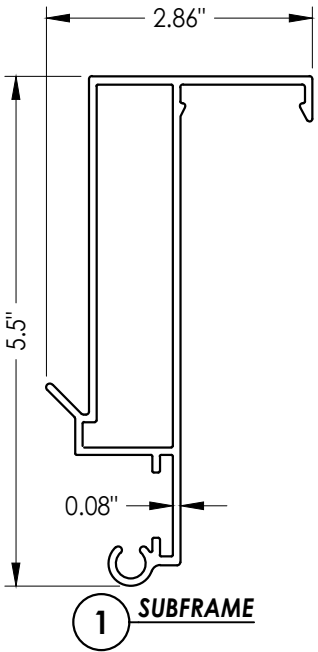
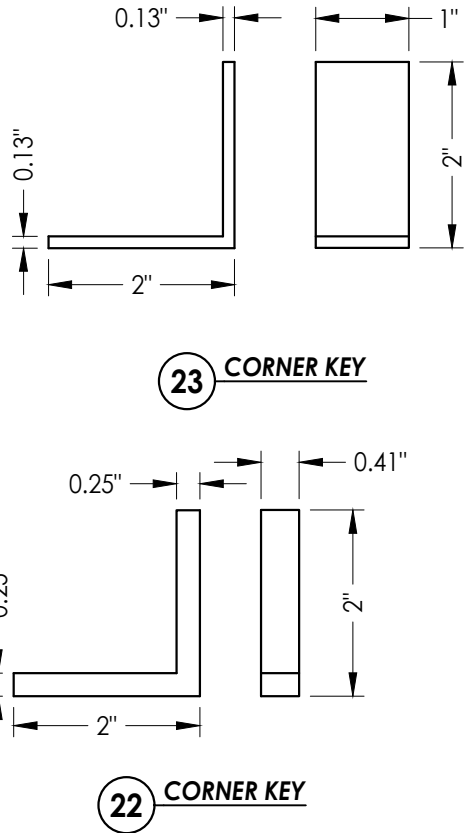
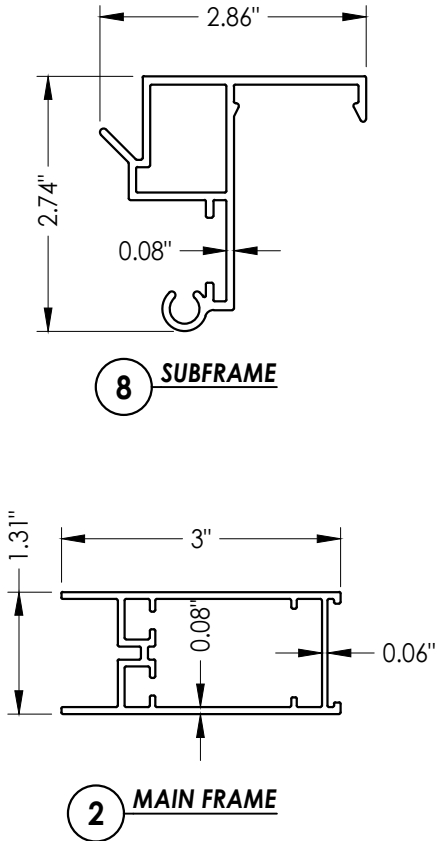
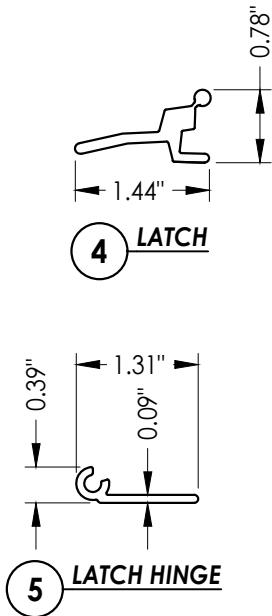
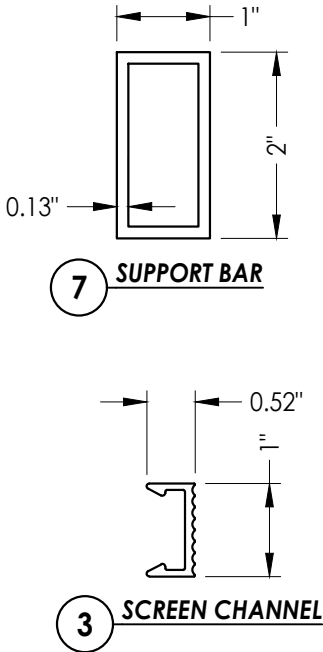
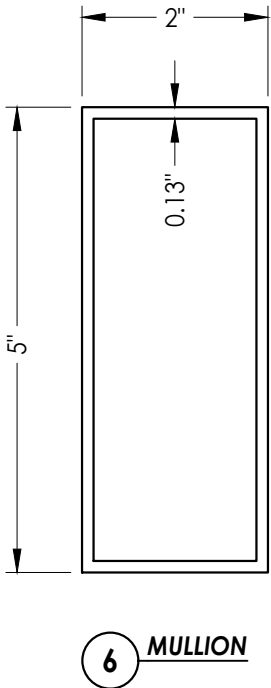
MASONRY - APPROVED ANCHOR SCHEDULE		
Ⓓ ANCHOR	SUPPORT STRUCTURE & INSTALLATION LIMITATIONS	MANUFACTURER
1/4" CONCRETE ANCHOR	CONCRETE = 3,000 PSI MIN. (CONFORMING TO ACI 301) OR HOLLOW BLOCK (CONFORMING TO ASTM C90) EMBEDMENT = 1.25" MIN., EDGE DISTANCE = 2.5" MIN., CL = 3.0" MIN.	DeWALT ULTRACON+®

NOTE: Porosity Factor included in Design Pressures indicated.



Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: Storm Barriers		PART OR ASSEMBLY: MULTIPLE MULLED PANELS FRAME ANCHORING	
		LFS	BY
4	2/03/25	UPDATE TO 8TH ED. (2023) FBC	JK
3	1/18/21	UPDATE TO 7TH ED. (2020) FBC	JK
2	6/08/18	CORRECT GENERAL NOTE 4	JK
1	9/26/17	UPDATE TO 6TH ED. (2017) FBC	JK
NO.	DATE	REVISIONS	
DATE: 3/20/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-10238.4			
SHEET 13 OF 14			

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
D	SEE SHEETS 8 THRU 11 FOR ANCHORING	-
1	SUBFRAME (5.5)	6063-T6 ALUM
2	MAIN FRAME	6063-T6 ALUM
3	SCREEN CHANNEL	6063-T6 ALUM
4	LATCH	6063-T6 ALUM
5	LATCH HINGE	6063-T6 ALUM
6	MULLION	6063-T6 ALUM
7	SUPPORT BAR	6063-T6 ALUM
8	SUBFRAME (2.75")	6063-T6 ALUM
9	HINGE	6063-T6 ALUM
10	#12 X 1-1/4" HWH SELF-DRILLING SMS	STEEL
11	#10 X 3/4" HWH SELF-DRILLING SMS	STEEL
12	#12 X 3/4" HWH SELF-DRILLING SMS	STEEL
15	PERFORATED PLATE (14GA. STAINLESS STEEL)	304 SS
21	CORNER KEY	6063-T6 ALUM
22	CORNER KEY	6063-T6 ALUM
23	CORNER KEY	6063-T6 ALUM
25	3/16" I P ALUM POP RIVET (ARROW)	ALUM
26	CORNER REINFORCEMENT	6063-T6 ALUM
27	2" X 2" X 3/16" ANGLE	6063-T6 ALUM

[illegible]

PRODUCT: Storm Barriers

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

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