

BRANNEN MILLWORK

3379 EAST HWY. 46
REGISTER, GEORGIA 30452

CASEMENT WINDOWS
"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 Florida Building Code and does not require an impact resistant covering.
4.

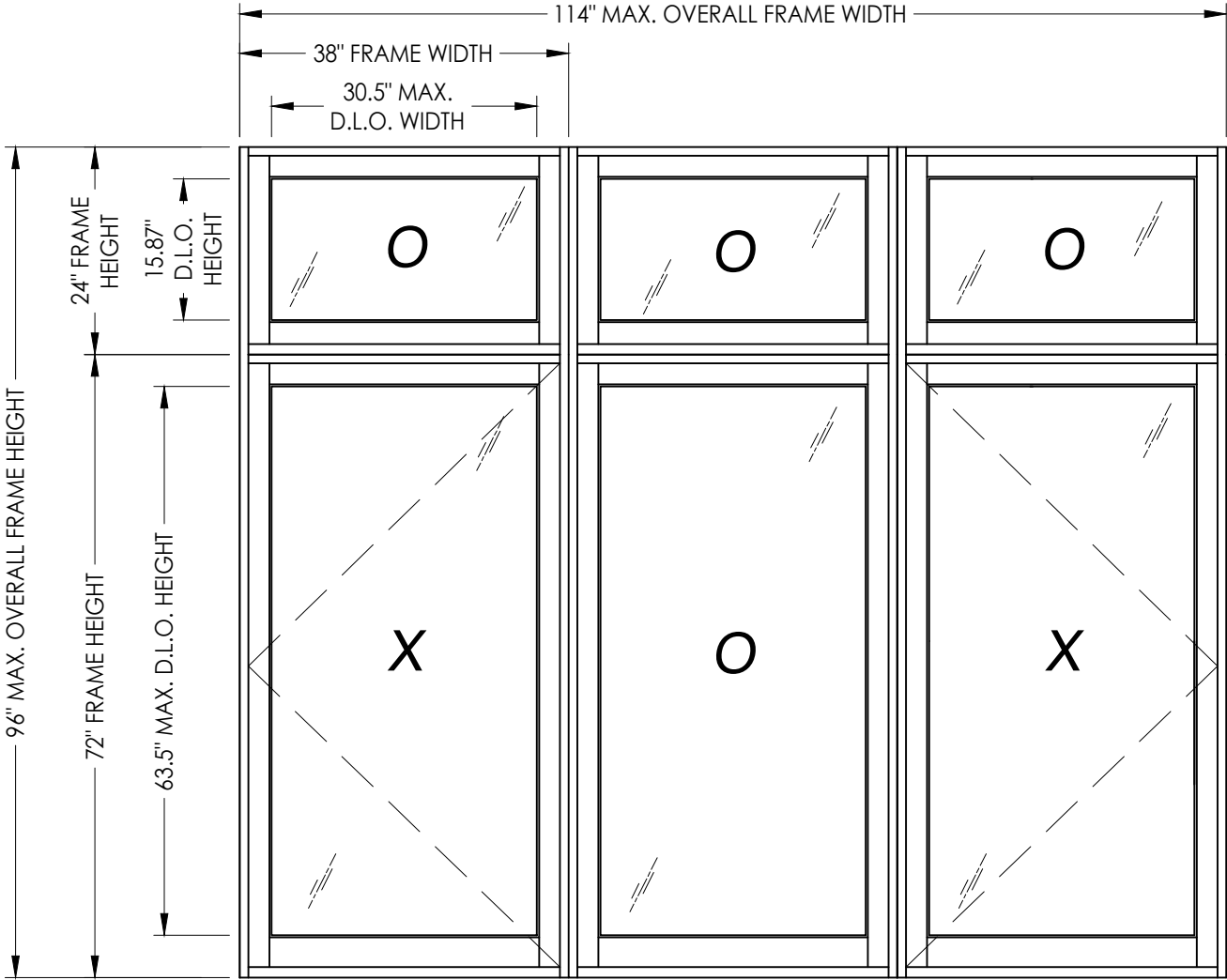
When used in areas outside the "HVHZ" requiring wind borne debris protection, this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5.

For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
6.

Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7.

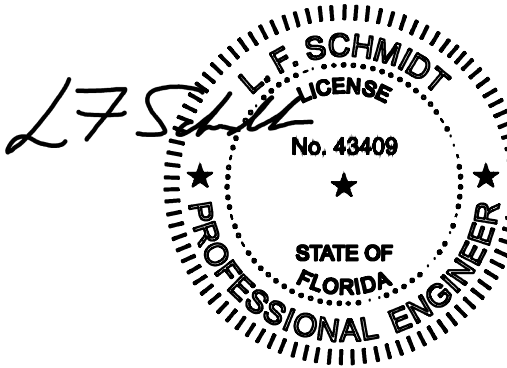
This product meets water infiltration requirements for "HVHZ".

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SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Frame and Hardware details
3	Horizontal cross section
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7	Buck anchoring
8	Frame anchoring
9	Components and glazing details
10	Bill of materials



OVERALL FRAME DIMENSION	MAX OVERALL D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
114.0" x 96.0"	30.5" x 63.5"	G1, G2	+60.0	-65.0
114.0" x 96.0"	30.5" x 63.5"	G3, G4*	+50.0	-50.0

*GLAZING DETAILS "G3" & "G4" ONLY APPLICABLE OUTSIDE THE "HVHZ"



Digitally signed by Lyndon F Schmidt
Date: 2023.10.11 14:22:50 -04'00'

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

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

BRANNEN MILLWORKS

REVISIONS

DATE: 5/14/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-9267.6

SHEET 1 OF 10

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

DATE

NO.

1

08/06/15

UPDATE TO 5TH ED. (2014) FBC

JK

BY

2

7/10/17

UPDATE TO 6TH ED. (2017) FBC

LFS

3

9/16/20

UPDATE TO 7TH ED. (2020) FBC

LFS

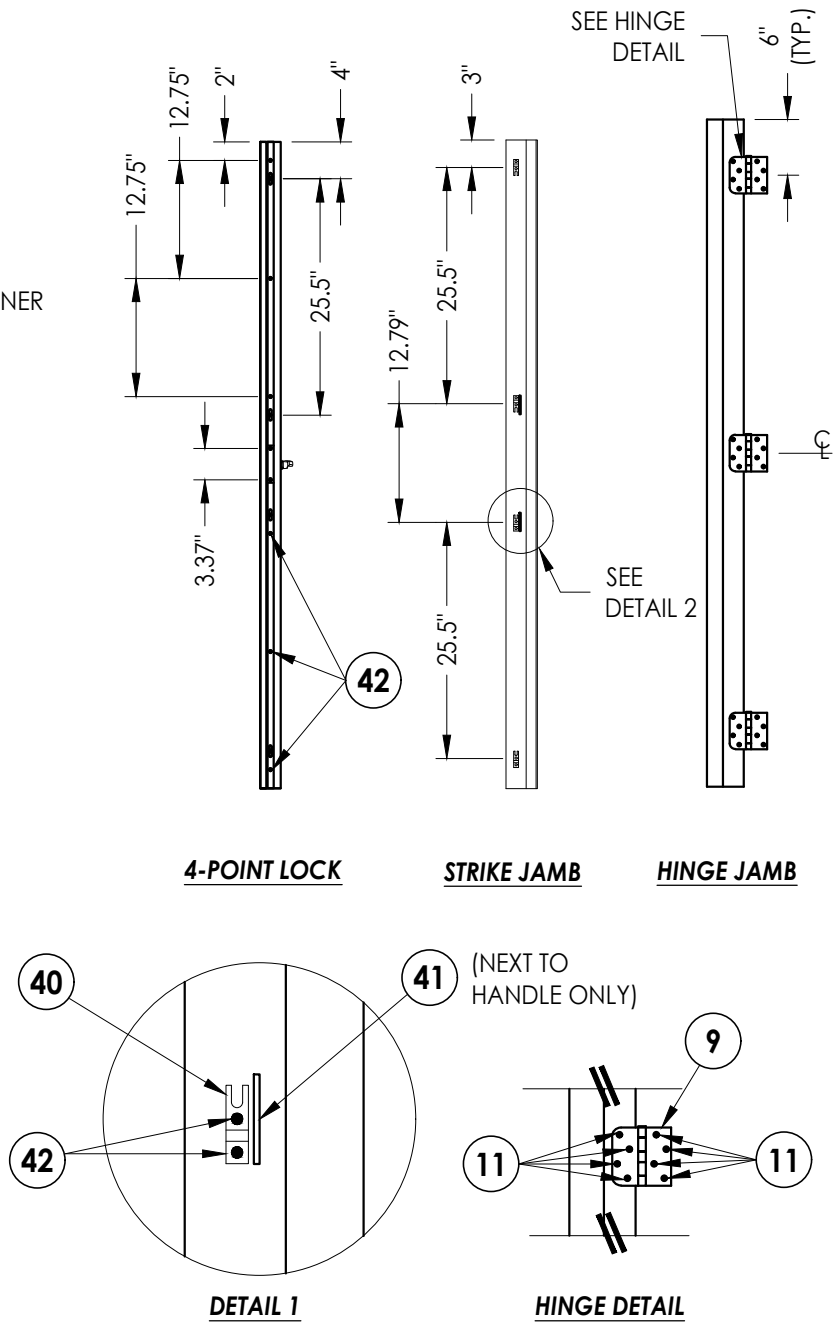
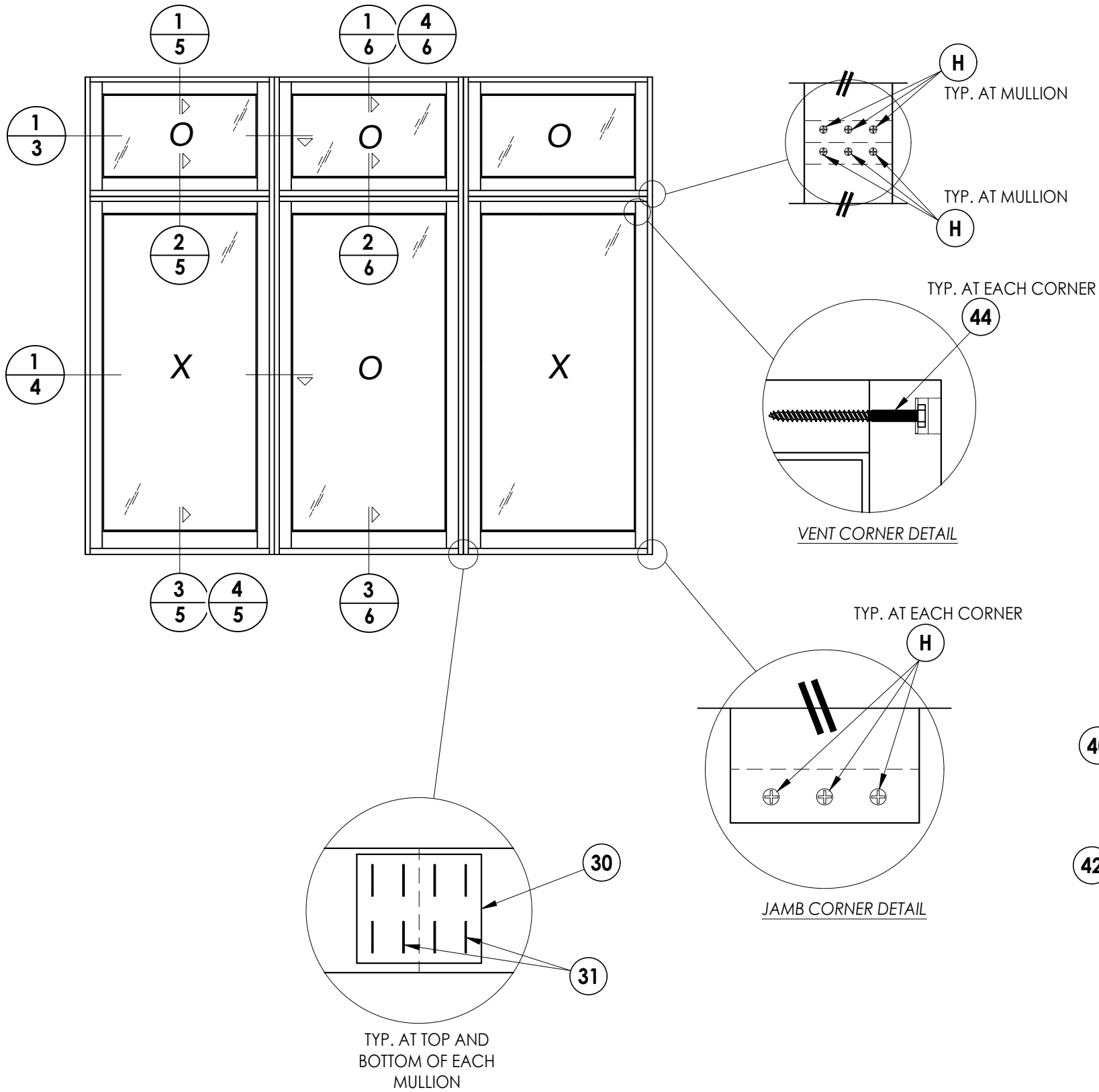
4

8/30/23

UPDATE TO 8TH ED. (2023) FBC

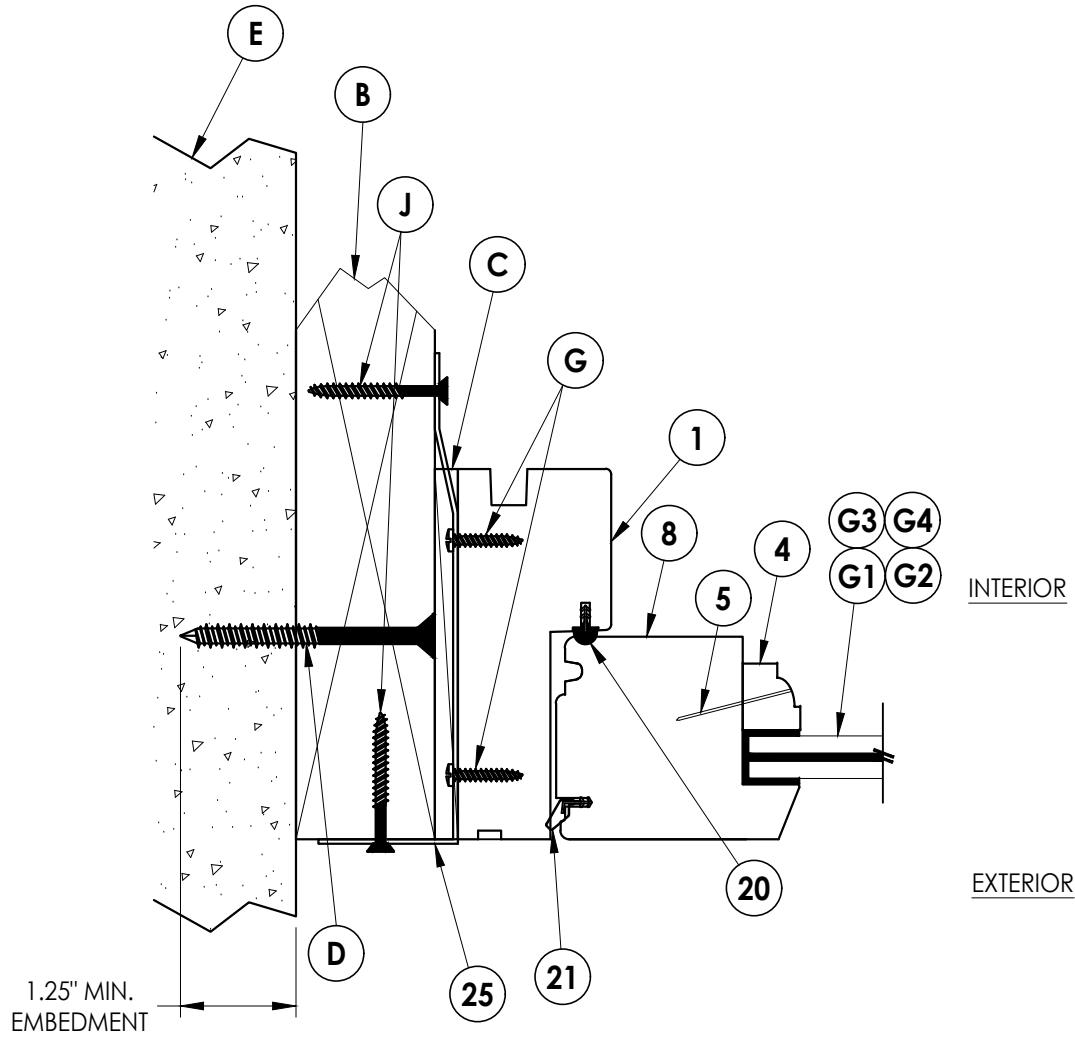
LFS

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P.O. Box 230, Valrico, FL 33595
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FBPE Registry No. 9813

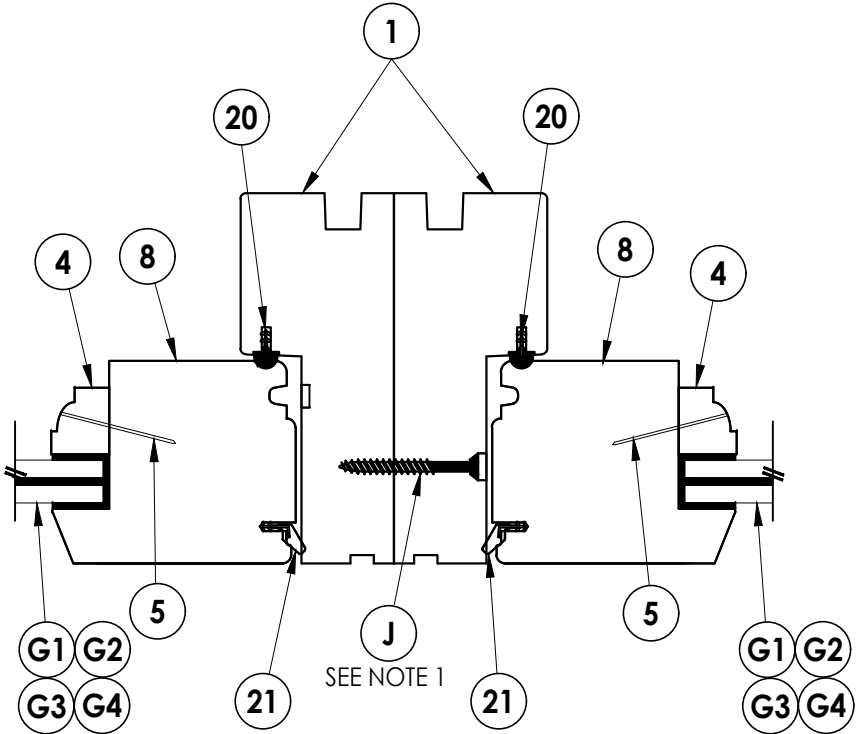


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: BRANNEN MILLWORKS				PART OR ASSEMBLY: FRAME AND HARDWARE DETAILS			
				LFS	FBC	(2023)	8/30/23
				LFS	FBC	(2020)	9/16/20
				LFS	FBC	(2017)	7/10/17
				JK	FBC	(2014)	08/06/15
				BY			DATE
				REVISIONS			
DATE: 5/14/12							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-9267.6							
SHEET 2 OF 10							

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1
3 **HORIZONTAL CROSS SECTION**
Shown w/ 2x buck (w/ Strap anchor)



Note:
1. Item J located 3" from each end and spaced 9" O.C..

NO.		DATE	REVISIONS			
4	8/30/23	UPDATE TO 8TH ED. (2023)	FBC	LFS		
3	9/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS		
2	7/10/17	UPDATE TO 6TH ED. (2017)	FBC	LFS		
1	08/06/15	UPDATE TO 5TH ED. (2014)	FBC	JK		

DATE: 5/14/12

SCALE: N.T.S.

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CHK. BY: LFS

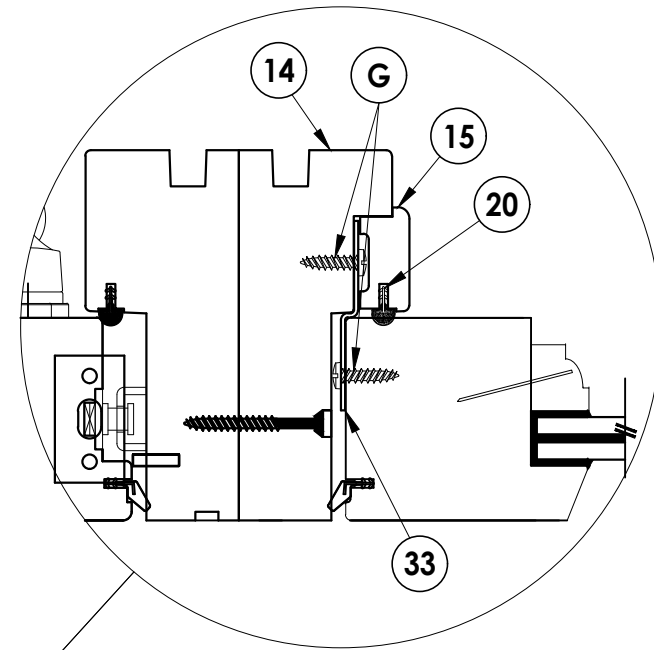
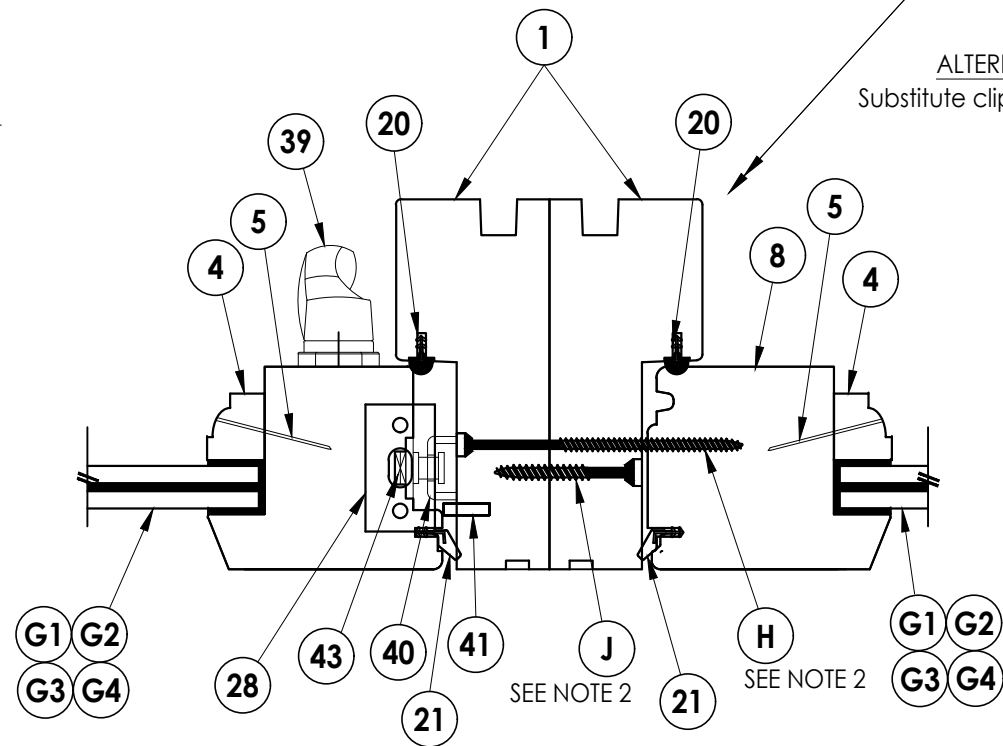
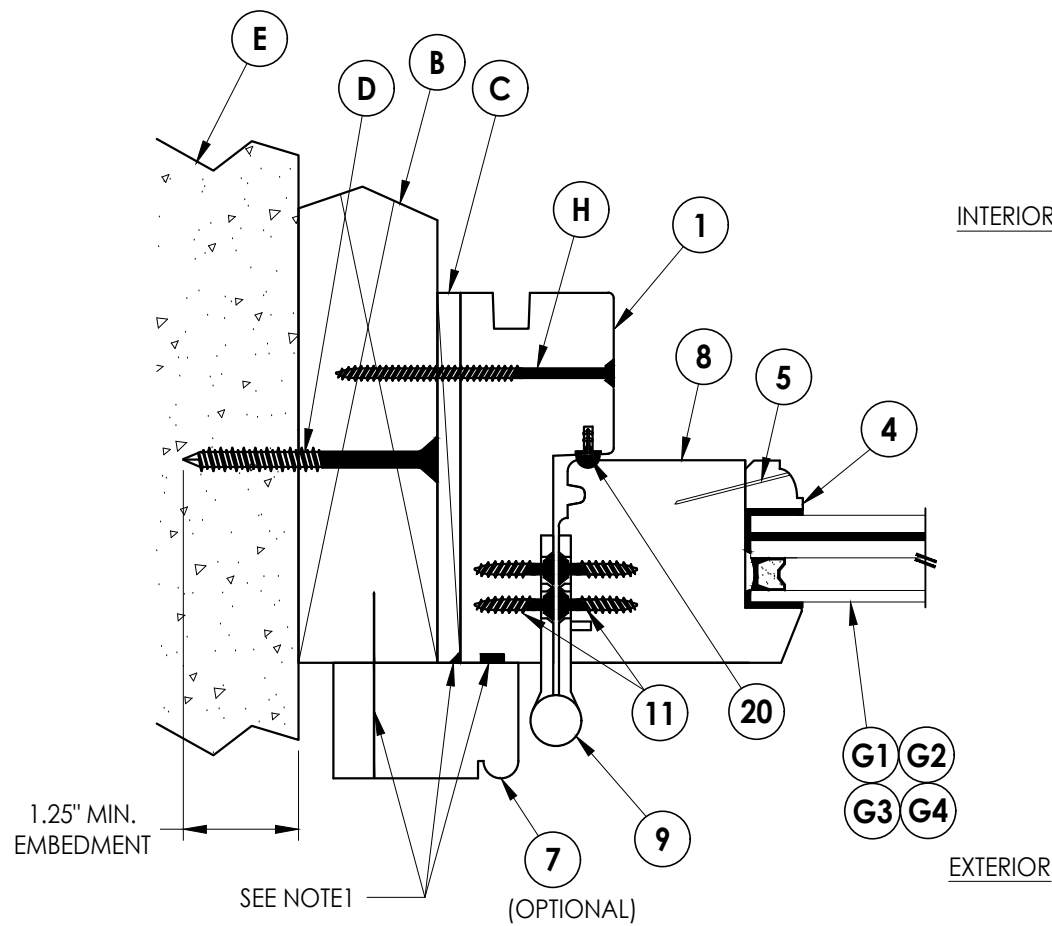
DRAWING NO.:
FL-9267.6

SHEET 3 OF 10

PRODUCT:	
BRANNEN MILLWORKS	
PART OR ASSEMBLY:	
HORIZONTAL CROSS SECTIONS	

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ALTERNATE FIXED PANEL CLIP CONNECTION
Substitute clip (item 33) for each fixed panel screw (item H)

Note:

1. Brickmold attached with 16 ga. X 2" brad nail located 3" from ends and 12" O.C. thereafter. In addition, apply adhesive (Loctite PL Premium Polyurethane) along entire length.
2. Item H and J located 3" from each end and spaced 11" O.C.

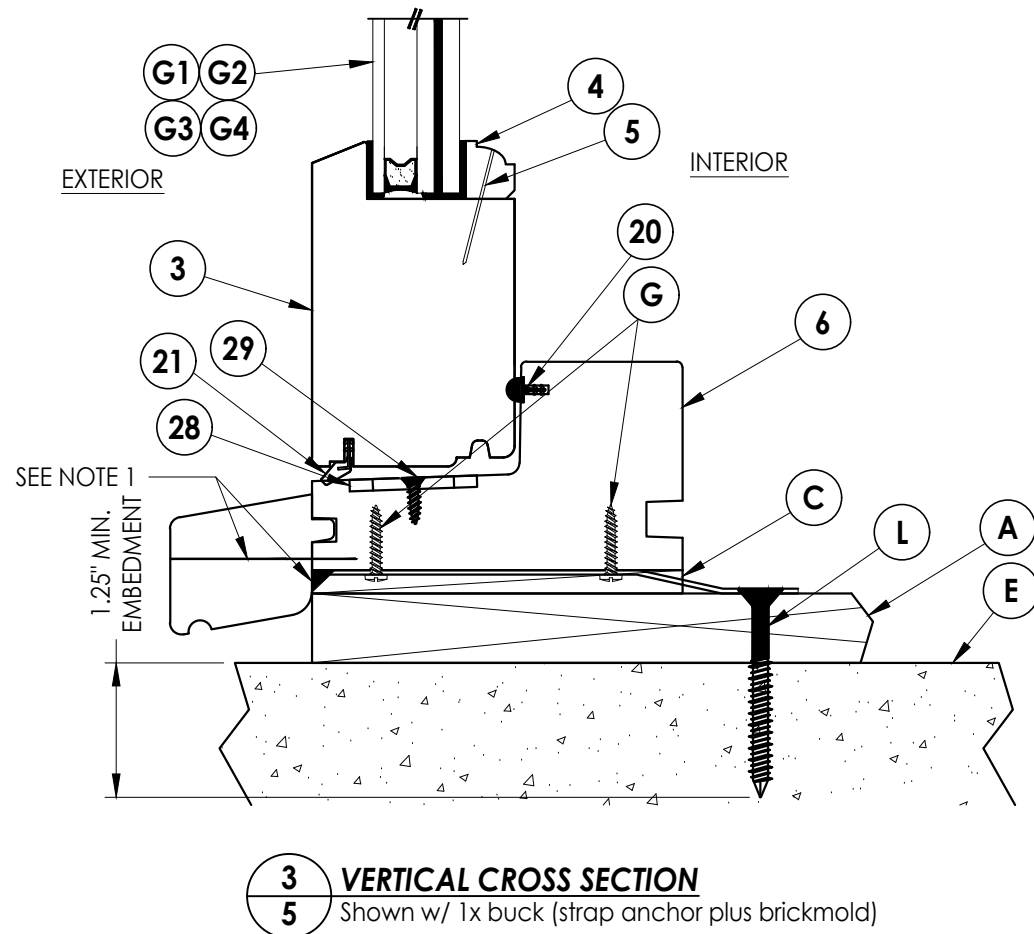
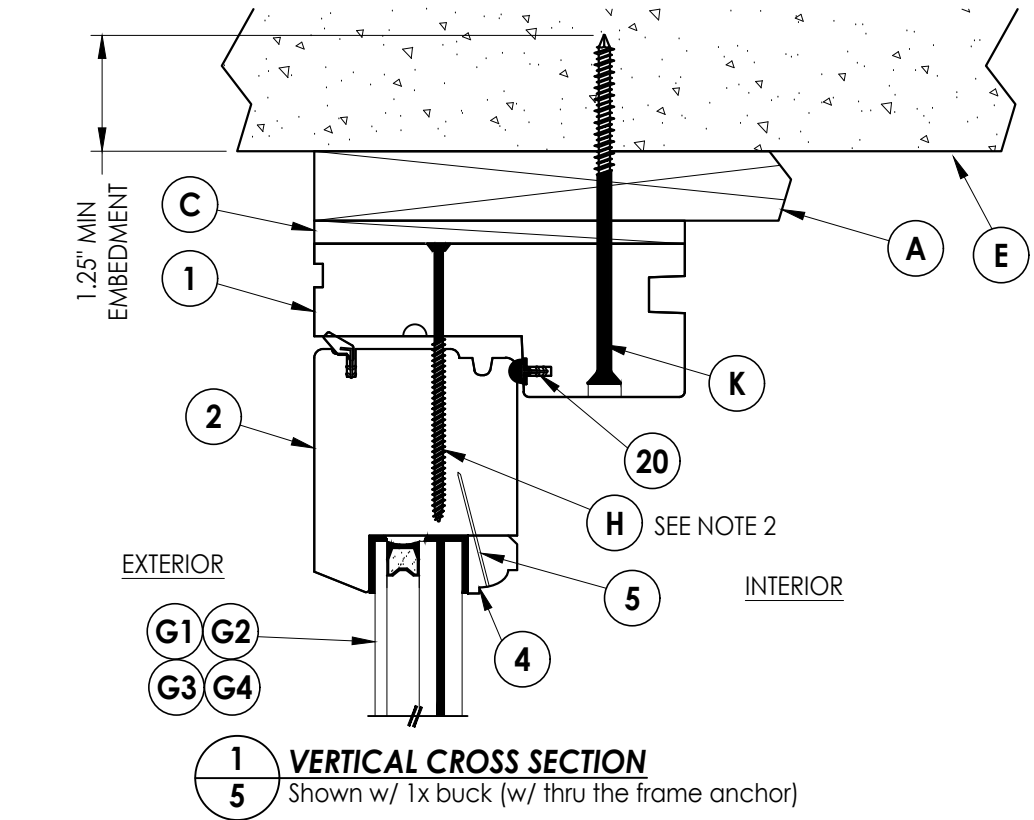
1 **HORIZONTAL CROSS SECTION**
4 Shown w/ 2x buck (w/ thru the frame anchor)

4	8/30/23	UPDATE TO 8TH ED. (2023)			FBC	LFS	
3	9/16/20	UPDATE TO 7TH ED. (2020)			FBC	LFS	
2	7/10/17	UPDATE TO 6TH ED. (2017)			FBC	LFS	
1	08/06/15	UPDATE TO 5TH ED. (2014)			FBC	JK	
NO.	DATE					BY	
							REVISIONS
DATE: 5/14/12							
SCALE: N.T.S.							
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CHK. BY: LFS							
DRAWING NO.: FL-9267.6							
SHEET 4 OF 10							

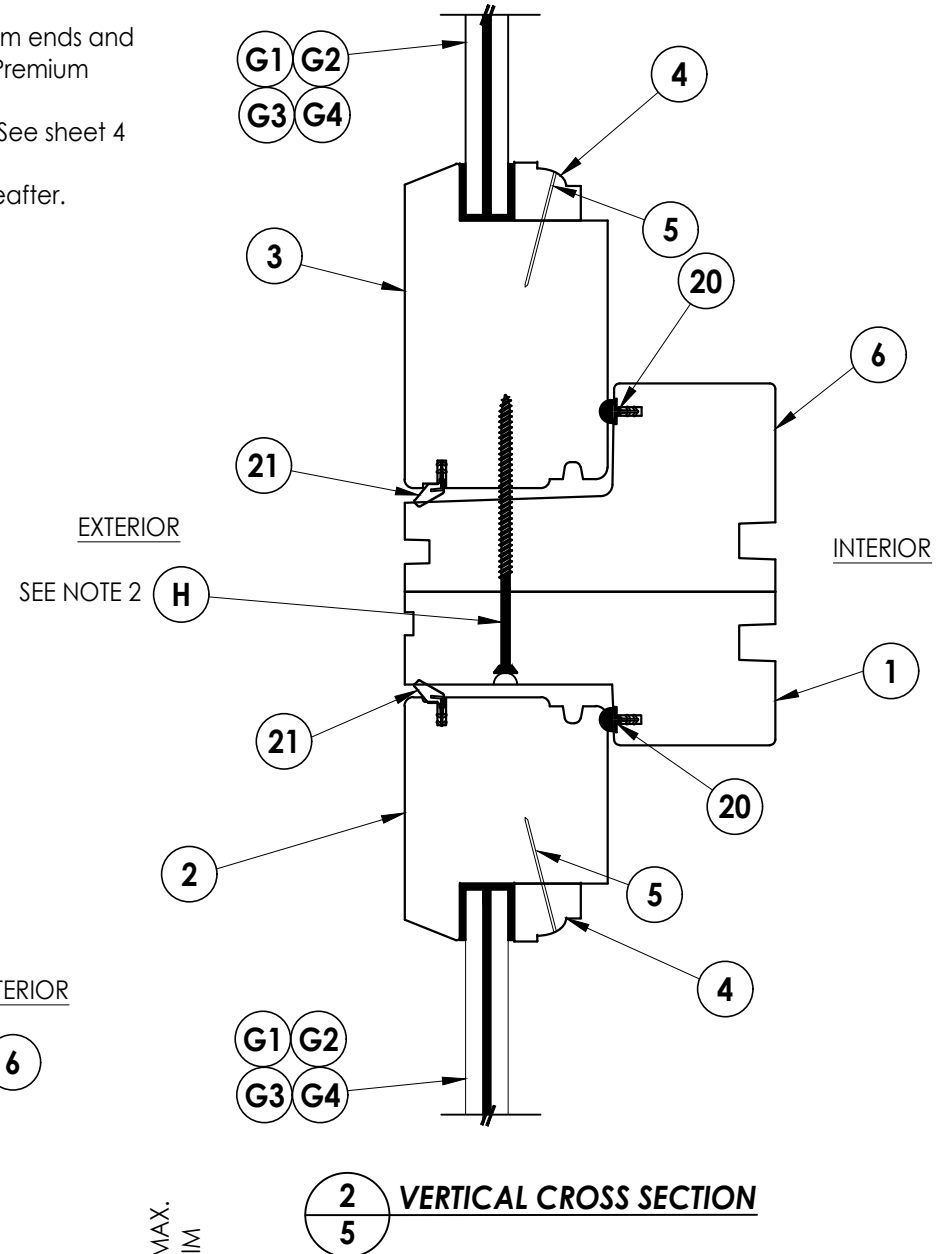
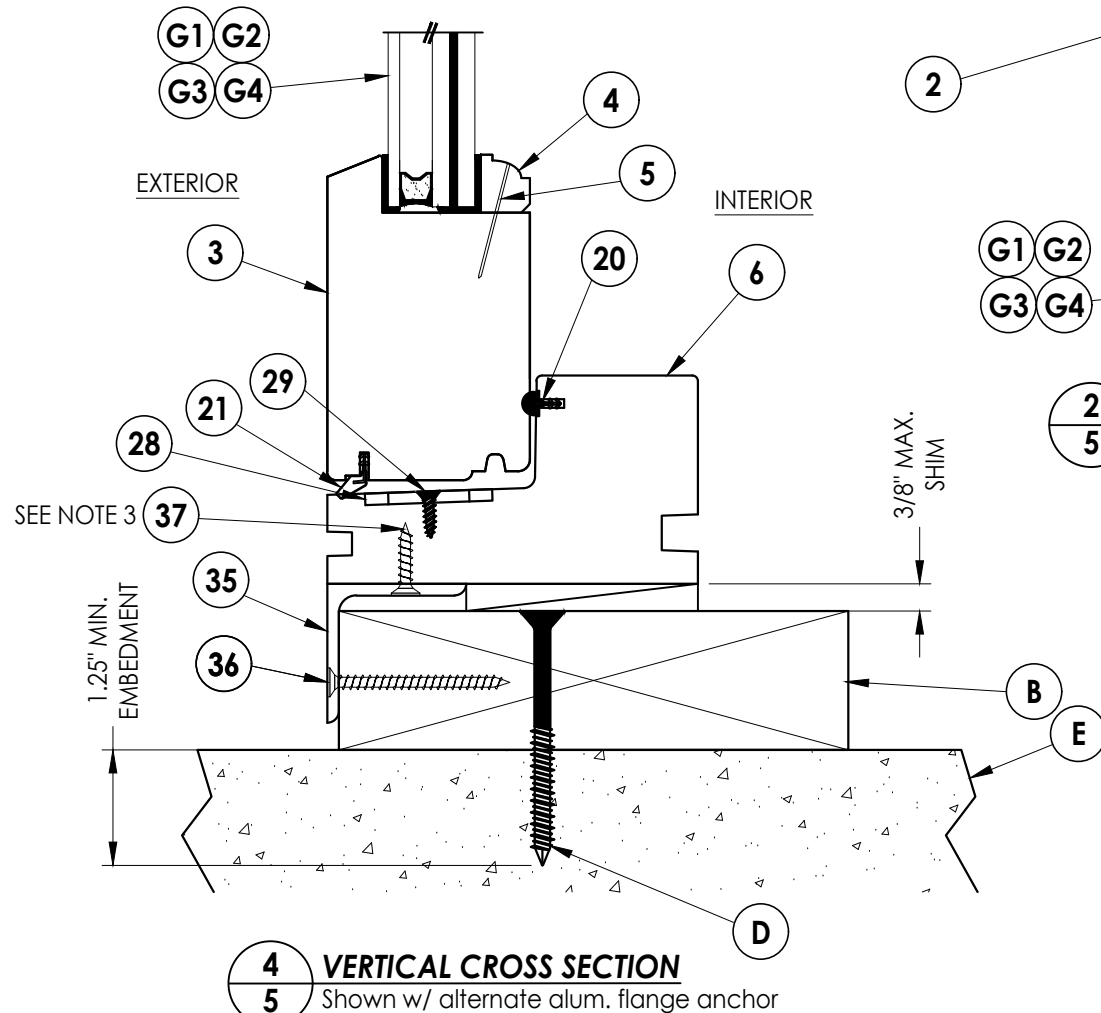
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- Note:
1. Brickmold attached with 16 ga. X 2" brad nail located 3" from ends and 12" O.C. thereafter. In addition, apply adhesive (Loctite PL Premium Polyurethane) along entire length.
 2. Item H located 3.5" from each end and spaced 6.5" O.C.. See sheet 4 for alternate clip attachment detail.
 3. Item 37 located 2.5" from each end and 10" max. o.c. thereafter.



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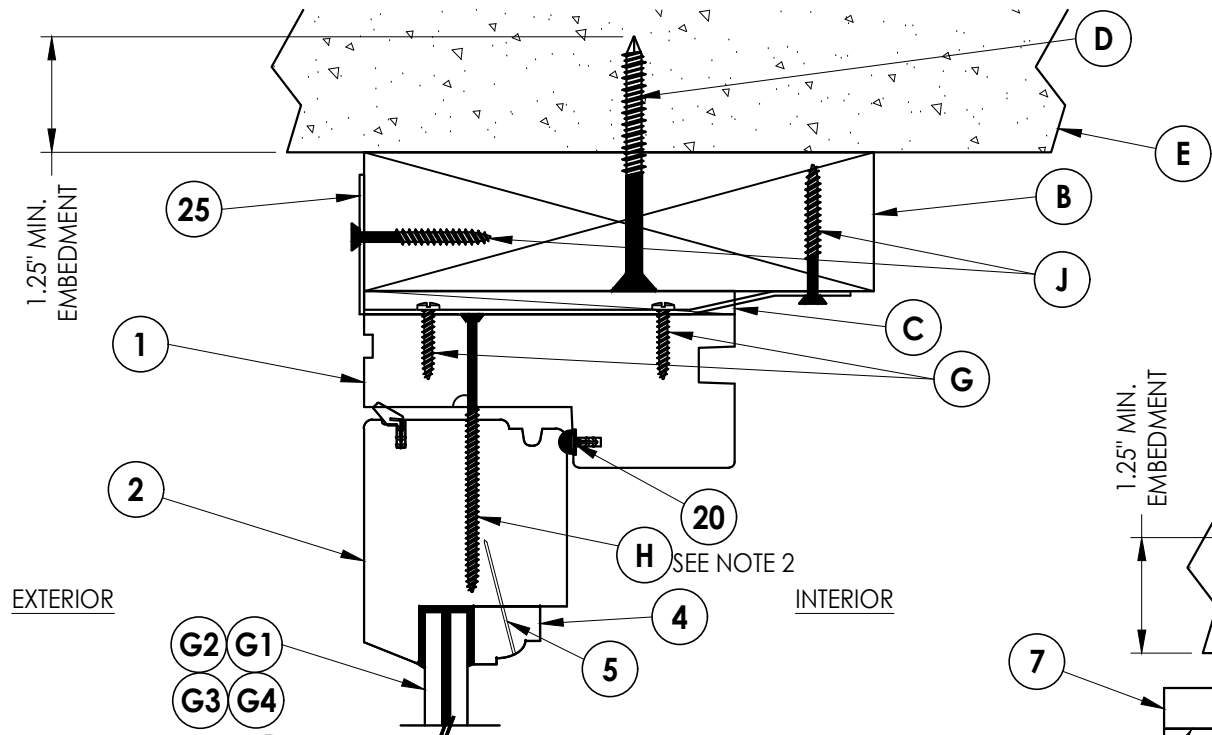
PRODUCT: BRANNEN MILLWORKS

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

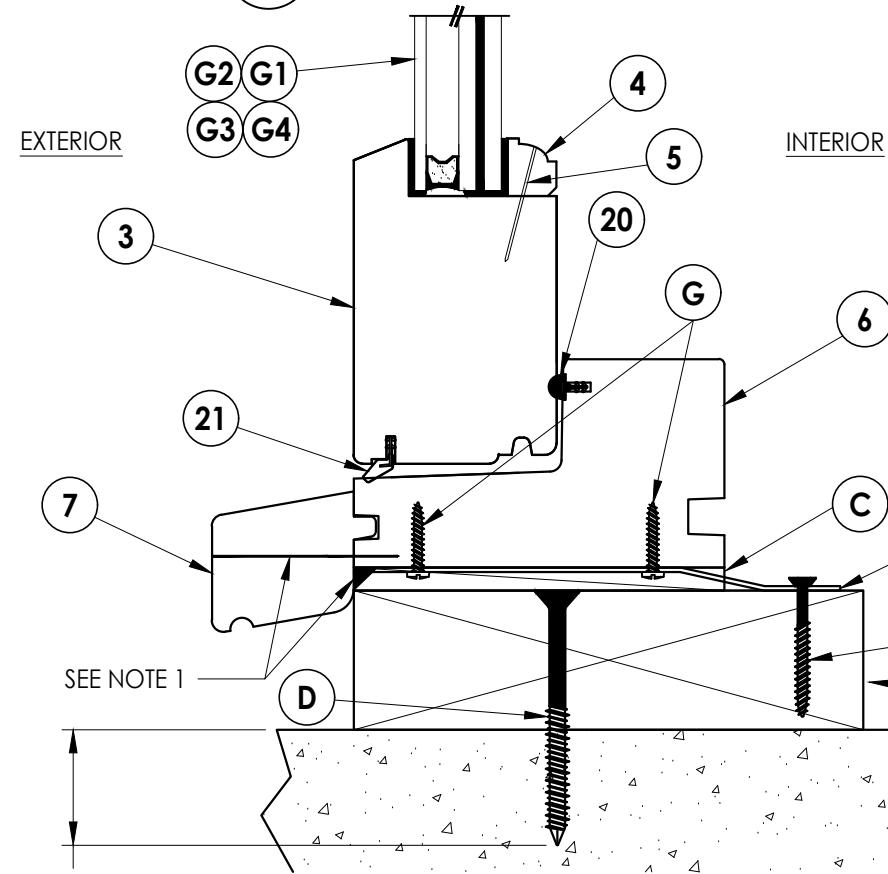
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3	9/16/20	UPDATE TO 7TH ED. (2020) FBC LFS
2	7/10/17	UPDATE TO 6TH ED. (2017) FBC LFS
1	08/06/15	UPDATE TO 5TH ED. (2014) FBC JK

DATE: 5/14/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-9267.6
SHEET 5 OF 10

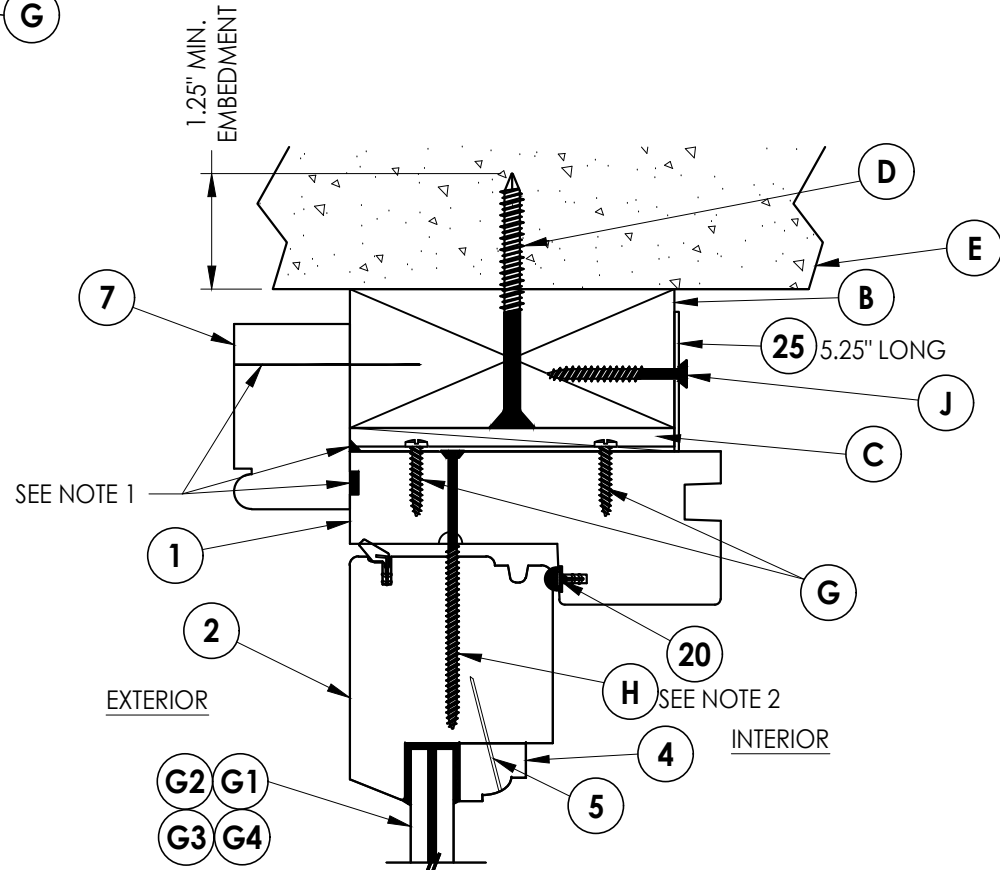
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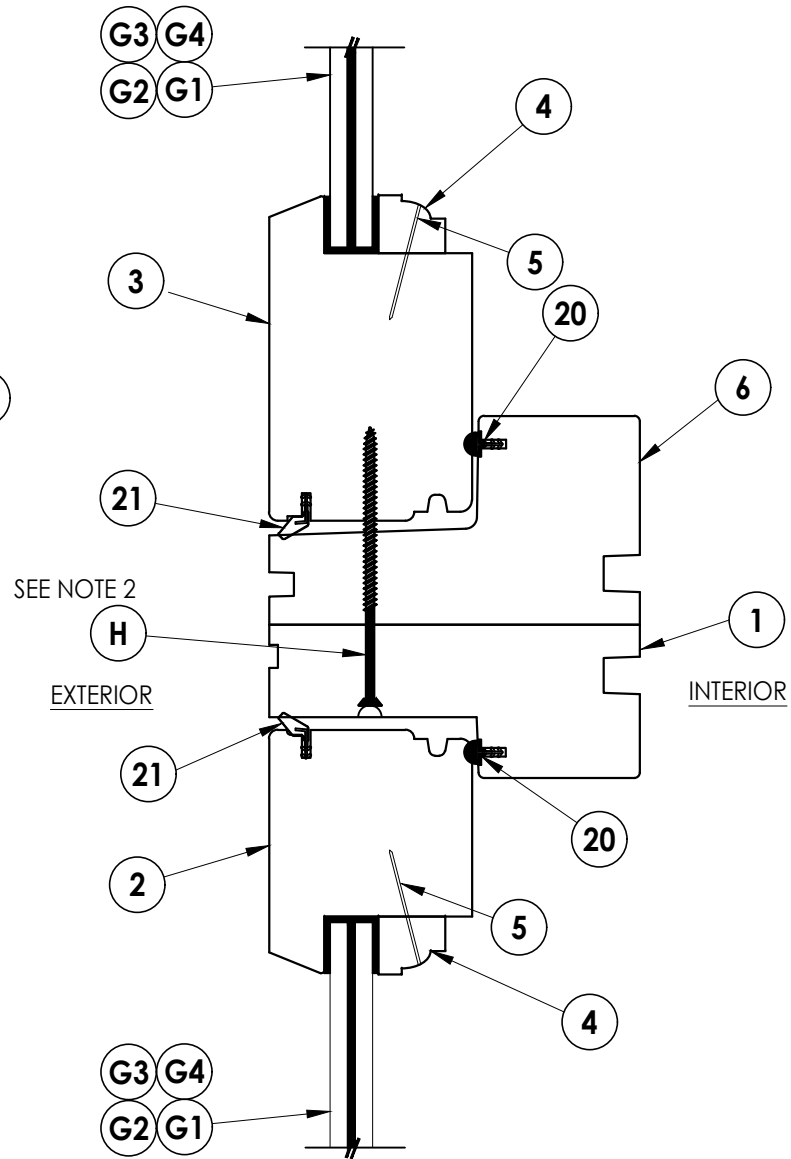
1
6 **VERTICAL CROSS SECTION**
Shown w/ 2x buck (w/ strap anchor)



3
6 **VERTICAL CROSS SECTION**
Shown w/ 2x buck (w/ strap anchor plus brick mold)



4
6 **VERTICAL CROSS SECTION**
Shown w/ 2x buck
(w/ strap anchor plus brick mold)



2
6 **VERTICAL CROSS SECTION**

Note:

1. Brickmold attached with 16 ga. X 2" brad nail located 3" from ends and 12" O.C. thereafter. In addition, apply adhesive (Loctite PL Premium Polyurethane) along entire length.
2. Item H located 3.5" from each end and spaced 6.5" O.C. See Sheet 4 for alternate clip attachment detail.

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PRODUCT:
BRANNEN MILLWORKS

PART OR ASSEMBLY:

VERTICAL
CROSS SECTIONS

NO.	DATE	REVISIONS			
		BY	JK	LFS	FBC
4	8/30/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
3	9/16/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
2	7/10/17	UPDATE TO 6TH ED.	(2017)	FBC	LFS
1	08/06/15	UPDATE TO 5TH ED.	(2014)	FBC	JK

DATE: 5/14/12

SCALE: N.T.S.

DWG. BY: JK

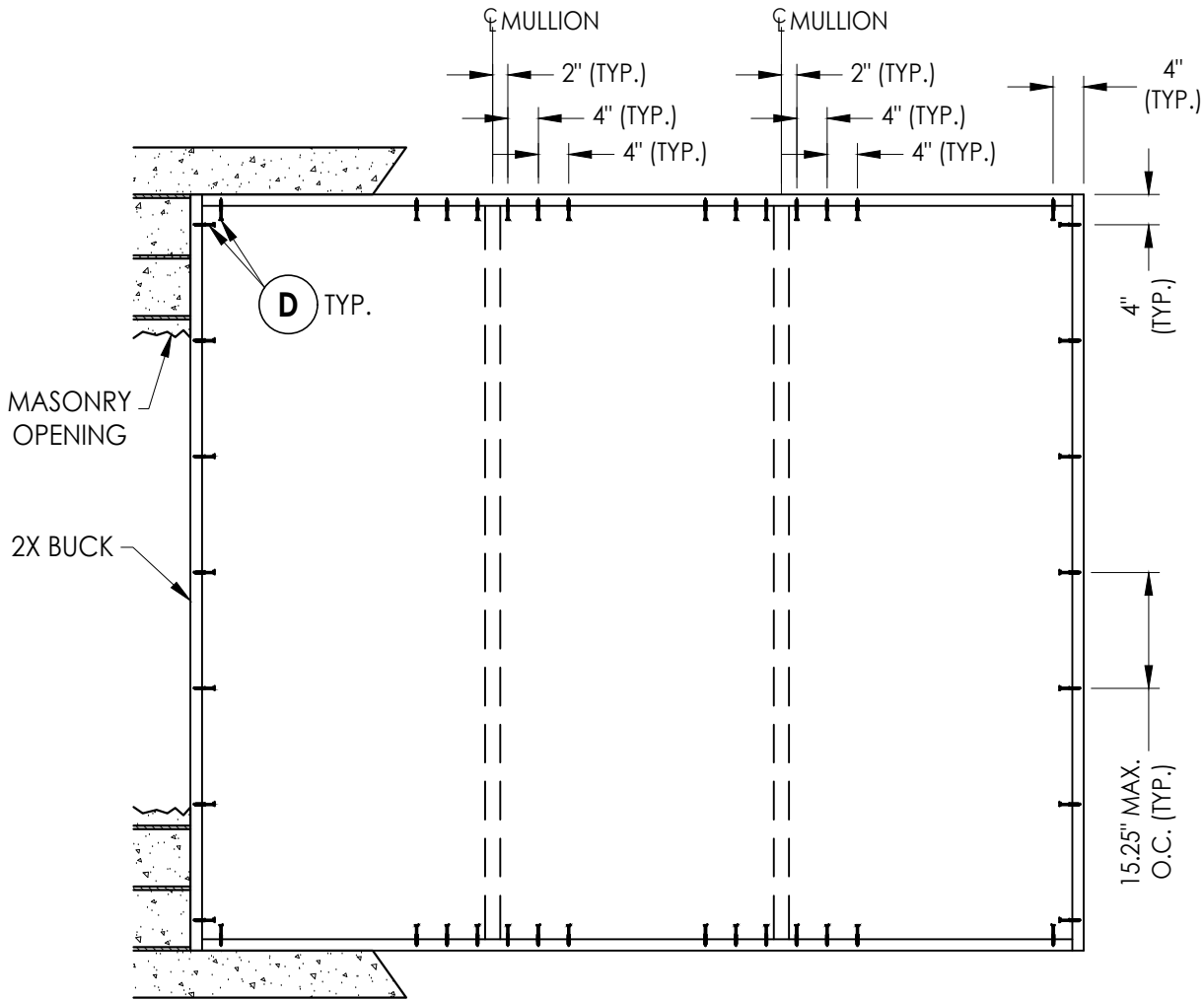
CHK. BY: LFS

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FL-9267.6

SHEET 6 OF 10

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BUCK ANCHORING

CONCRETE ANCHOR NOTES:

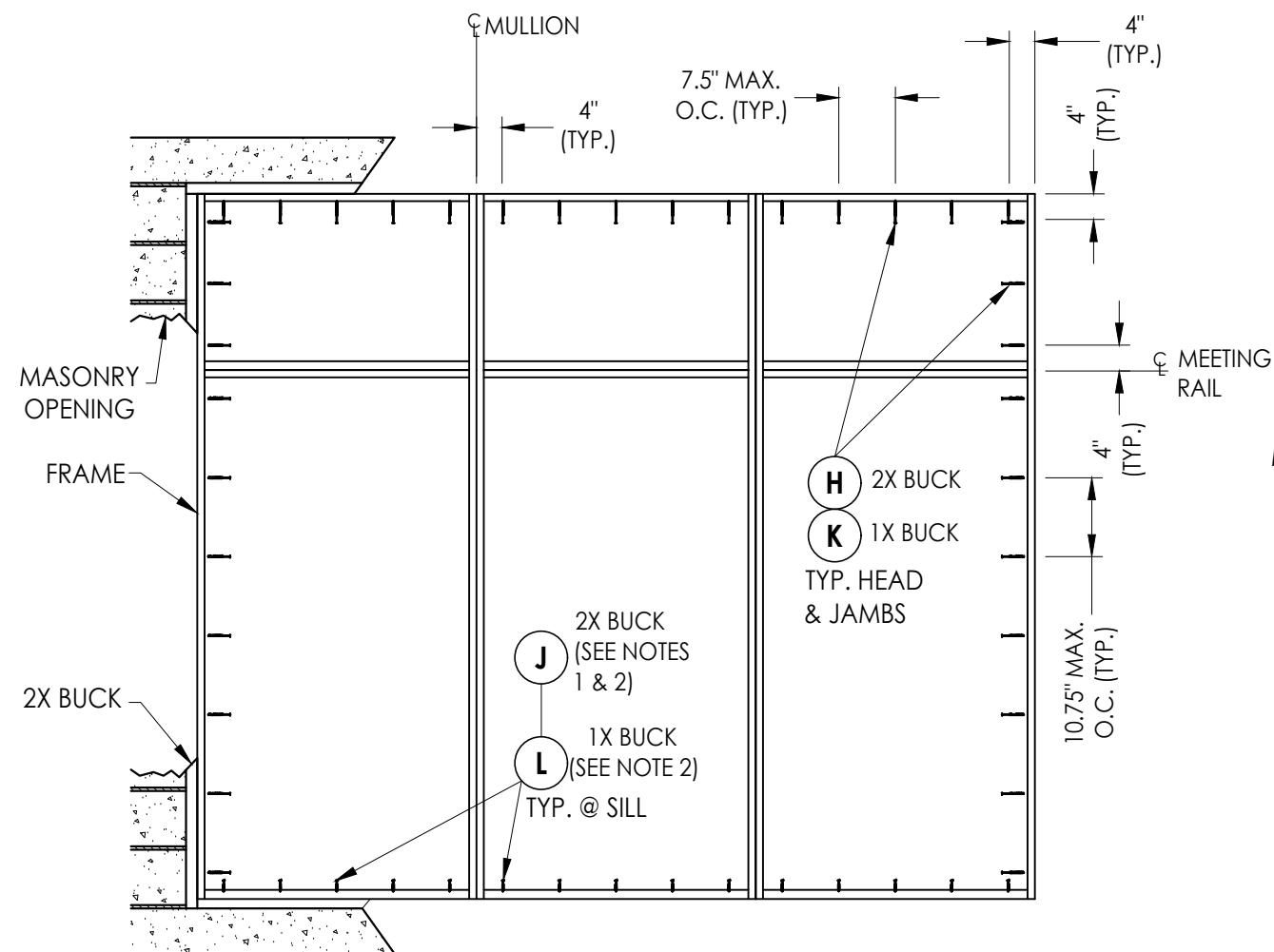
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRA CON+®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

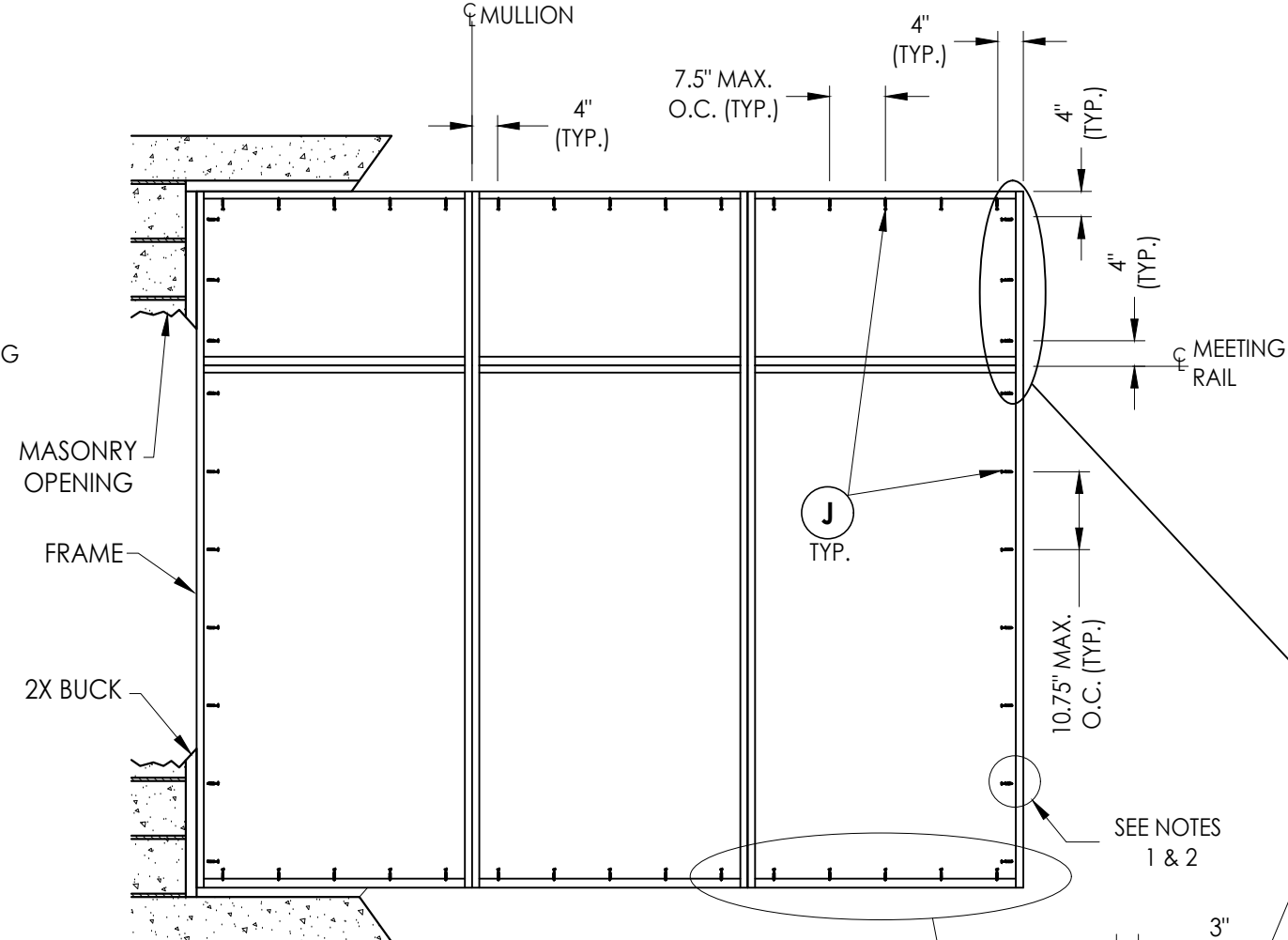
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

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4	8/30/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	9/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
2	7/10/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
1	08/06/15	UPDATE TO 5TH ED. (2014)	FBC	JK	
	NO. DATE			BY	
DATE: 5/14/12					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-9267.6					
SHEET 7 OF 10					



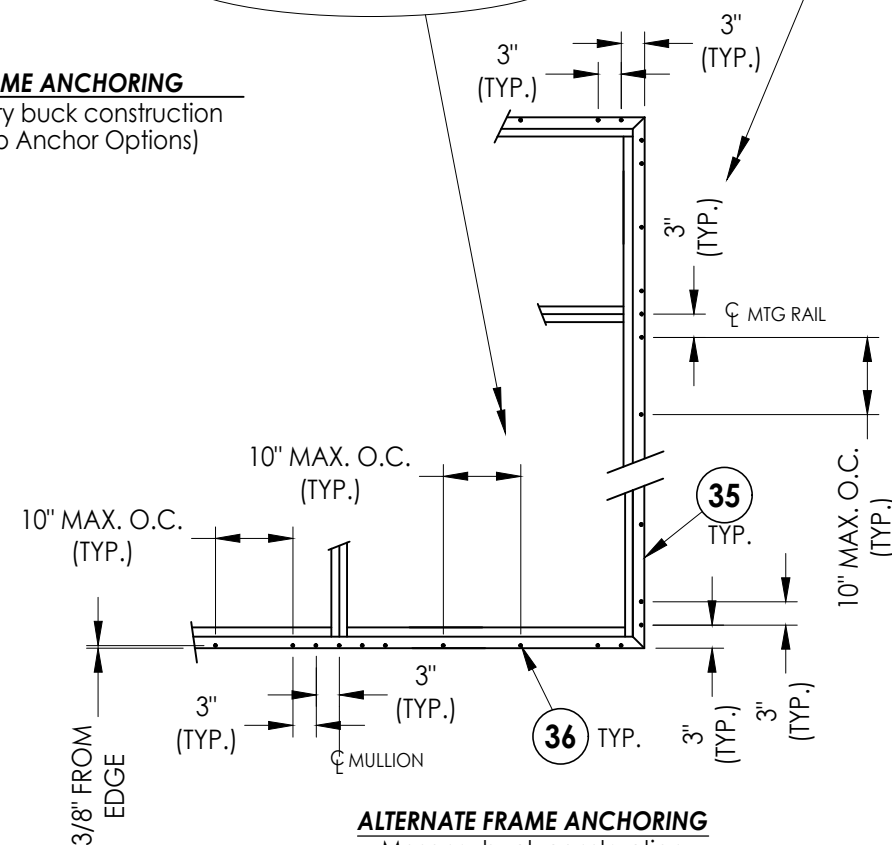
FRAME ANCHORING

Masonry buck construction
(Thru the Frame Anchoring)



FRAME ANCHORING

Masonry buck construction (Strap Anchor Options)



ALTERNATE FRAME ANCHORING

Masonry buck construction
(Aluminum Flange Anchor)

NOT FOR USE IN THE HVHZ & EXCLUDES WIND ZONE 4

- NOTES:
1. Two anchors required at each location w/ strap anchor only.
 2. One anchor required at each location w/ strap anchor plus brick mold.

CONCRETE ANCHOR NOTES:

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRA CON+®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

4	8/30/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
3	9/16/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
2	7/10/17	UPDATE TO 6TH ED.	(2017)	FBC	LFS
1	08/06/15	UPDATE TO 5TH ED.	(2014)	FBC	JK
NO.	DATE				
					BY
					REVISIONS

DATE: 5/14/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

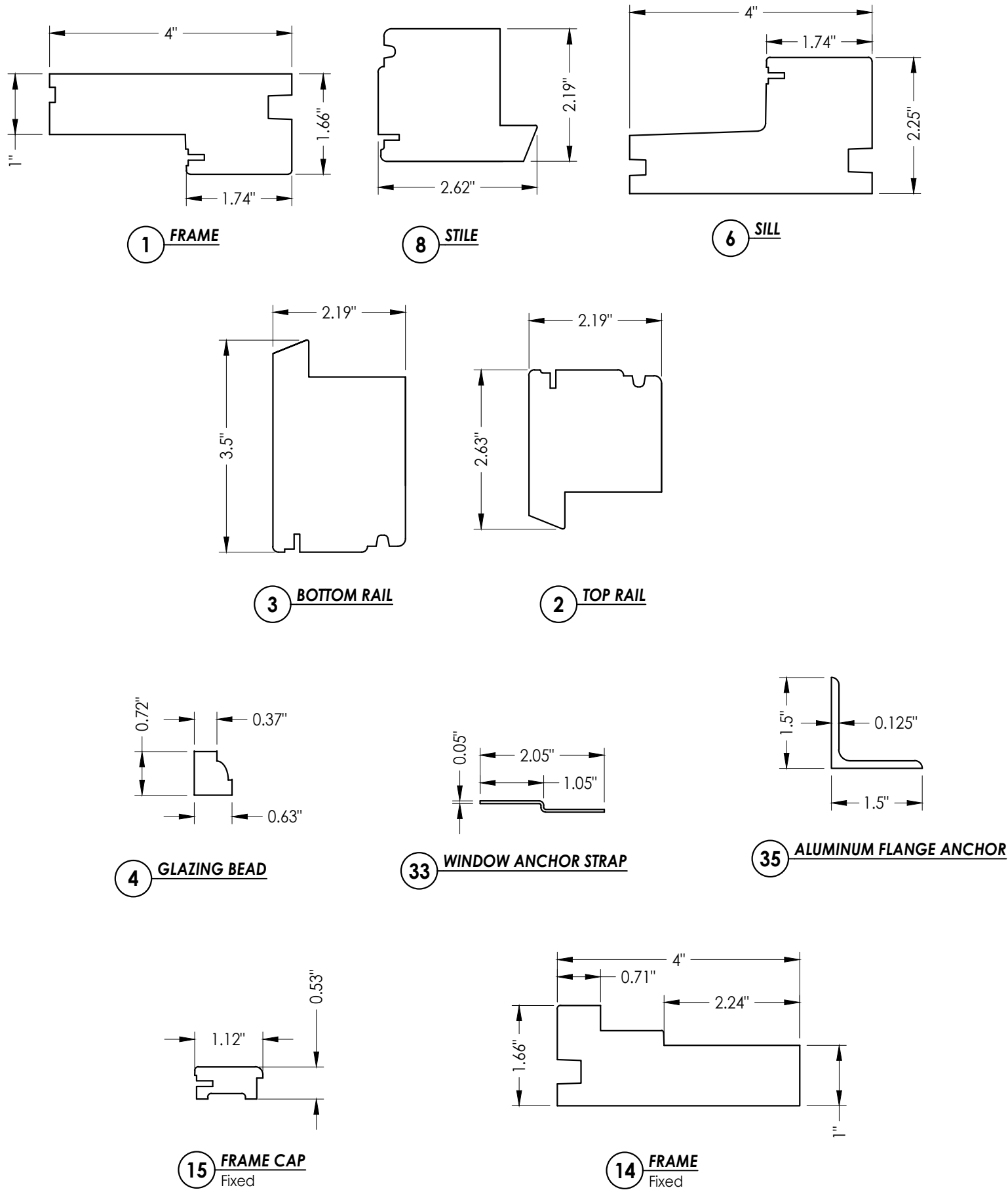
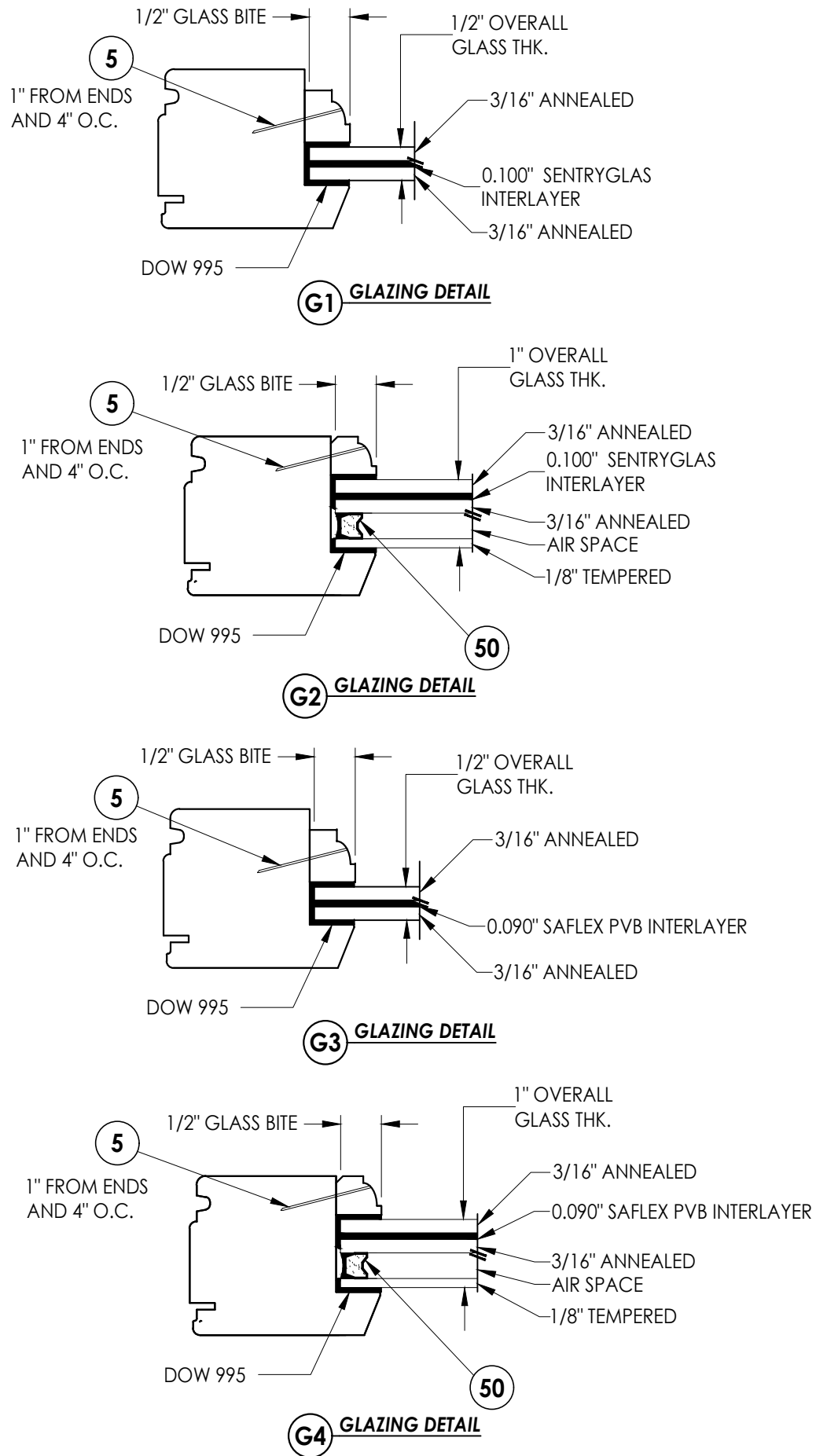
FL-9267.6

SHEET 8 OF 10

Documents Prepared By:
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PRODUCT:
BRANNEN MILLWORKS

PART OR ASSEMBLY:
COMPONENTS AND
GLAZING DETAILS

NO.	DATE	REVISIONS
4	8/30/23	UPDATE TO 8TH ED. (2023) FBC
3	9/16/20	UPDATE TO 7TH ED. (2020) FBC
2	7/10/17	UPDATE TO 6TH ED. (2017) FBC
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DATE: 5/14/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-9267.6

SHEET 9 OF 10

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.42	WOOD
B	2X BUCK SG >= 0.42	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
G	#6 X 3/4" PPH SMS	STEEL
H	#10 X 3" FH DEEP THREAD WOOD SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
J	#8 X 1-1/2" FH DEEP THREAD WOOD SCREW (1-3/8" MIN. EMBEDMENT)	STEEL
K	1/4" X 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
L	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
1	FRAME HEAD AND JAMB (SG >= 0.54)	WOOD
2	TOP RAIL	WOOD
3	BOTTOM RAIL	WOOD
4	GLAZING BEAD	WOOD
5	0.025" x 1-3/16" BRAD NAIL	STEEL
6	FRAME SILL (CASEMENT)	WOOD
7	BRICK MOLDING	WOOD
8	STILE	WOOD
9	4" X 4" BUTT HINGE	STEEL
11	#12 X 1-1/4" PFH WOOD SCREW	STEEL
14	FRAME HEAD AND JAMB (FIXED)	WOOD
15	FRAME CAP	WOOD
20	WEATHERSTRIP (SCHLEGE QEZD 175)	VINYL
21	WEATHERSTRIP (SCHLEGE QEZD 250)	VINYL
25	0.05" X 1.25" X 6.75" Simpson Strong-Tie CS18 Strap	STEEL
28	STRIKE PLATE	STEEL
29	#6 X 1/2" PFH WOOD SCREW	STEEL
30	REINFORCEMENT STEEL PLATE (0.02" X 3" X 4")	STEEL
31	STAPLE (16 GA. X 1" CROWN X 5/8" LEGS)	STEEL
33	WINDOW ANCHOR STRAP	STEEL
35	ALUMINUM FLANGE ANCHOR (6063-T5)	ALUM
36	#8 X 2" FH DEEP THREAD WOOD SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
37	#8 X 3/4" PFH WOOD SCREW (5/8" MIN. EMBEDMENT)	STEEL
39	CAM LOCK	STEEL
40	KEEPER FOR MUSHROOM CAM	BRASS
41	KEEPER SUPPORT	BRASS
42	#8 X 1-1/4" PFH SCREW	STEEL
43	SHOOT BOLT	STEEL
44	3/8" X 5" HH LAG BOLT	STEEL
50	GLAZING SPACER (DESICCANT FILLED)	ST. STEEL

NOTE: WINDOW FRAME WOOD (SG ≥ 0.54)

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PRODUCT: BRANNEN MILLWORKS		PART OR ASSEMBLY: BILL OF MATERIALS	
4	8/30/23	UPDATE TO 8TH ED. (2023)	FBC LFS
3	9/16/20	UPDATE TO 7TH ED. (2020)	FBC LFS
2	7/10/17	UPDATE TO 6TH ED. (2017)	FBC LFS
1	08/06/15	UPDATE TO 5TH ED. (2014)	FBC JK
NO.	DATE		BY
REVISIONS			
DATE: 5/14/12			
SCALE: N.T.S.			
DWG. BY: JK			
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DRAWING NO.: FL-9267.6			
SHEET 10 OF 10			