

BRANNEN MILLWORK

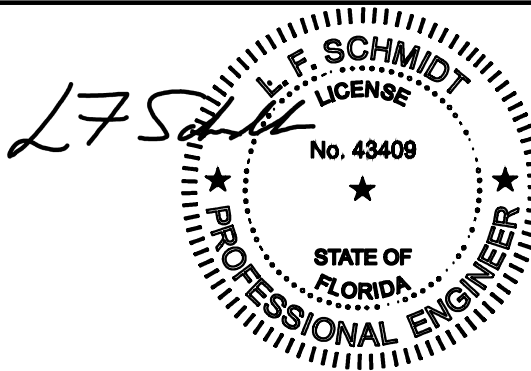
3379 EAST HWY. 46
REGISTER, GEORGIA 30452

SERIES 580 DOUBLE HUNG WINDOW "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 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. 2X stud framing to be designed by the Engineer or Architect of Record based upon the applicable wind load design criteria.
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".

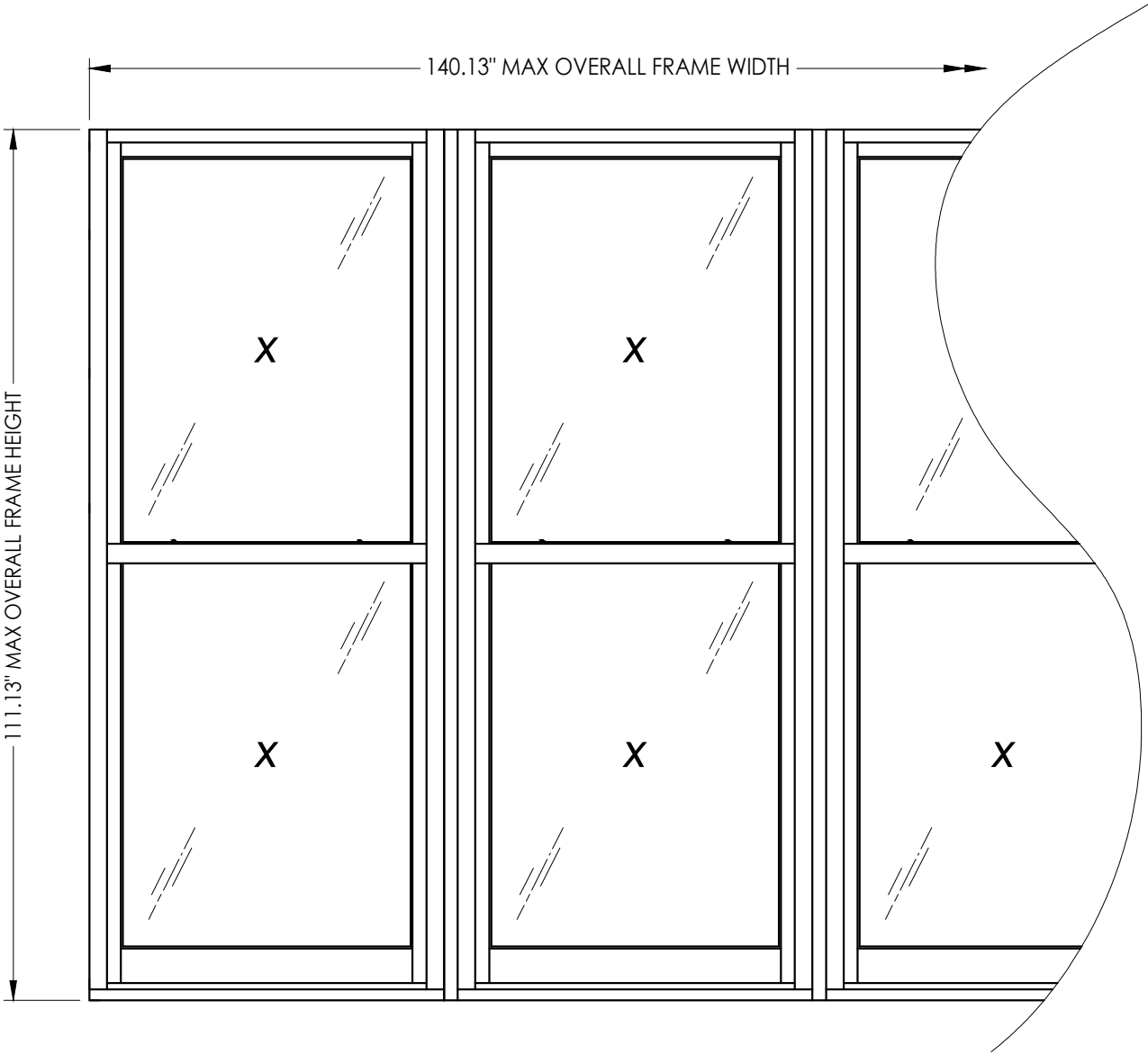
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Horizontal cross sections - masonry construction
3	Vertical cross sections - masonry construction
4	Horizontal cross sections - stud construction
5	Vertical cross sections - stud construction
6	Buck anchoring
7	Frame anchoring
8	Panel details
9	Components
10	Bill of Materials & glazing detail



Digitally signed by Lyndon F Schmidt
Date: 2023.10.11 09:39:37 -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



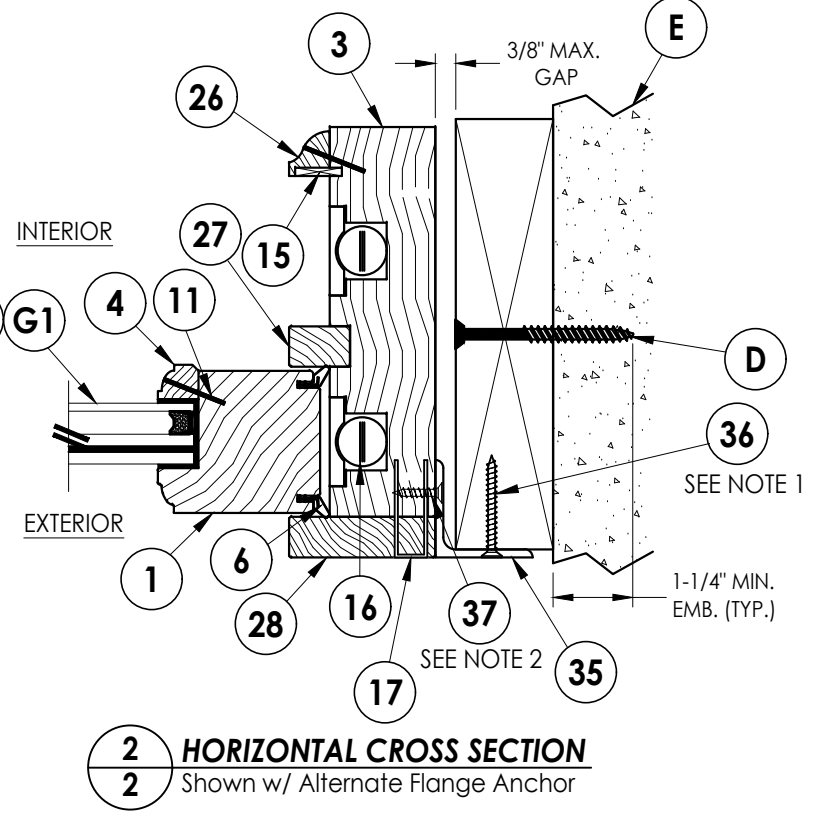
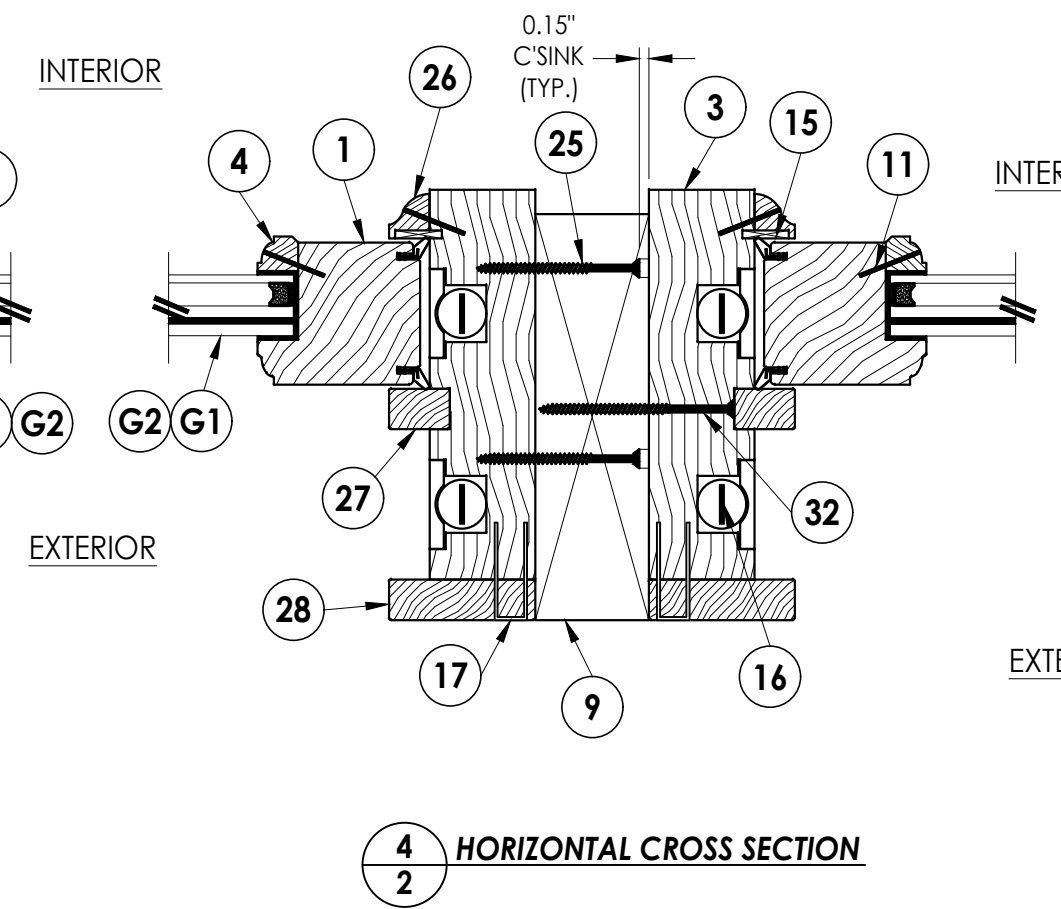
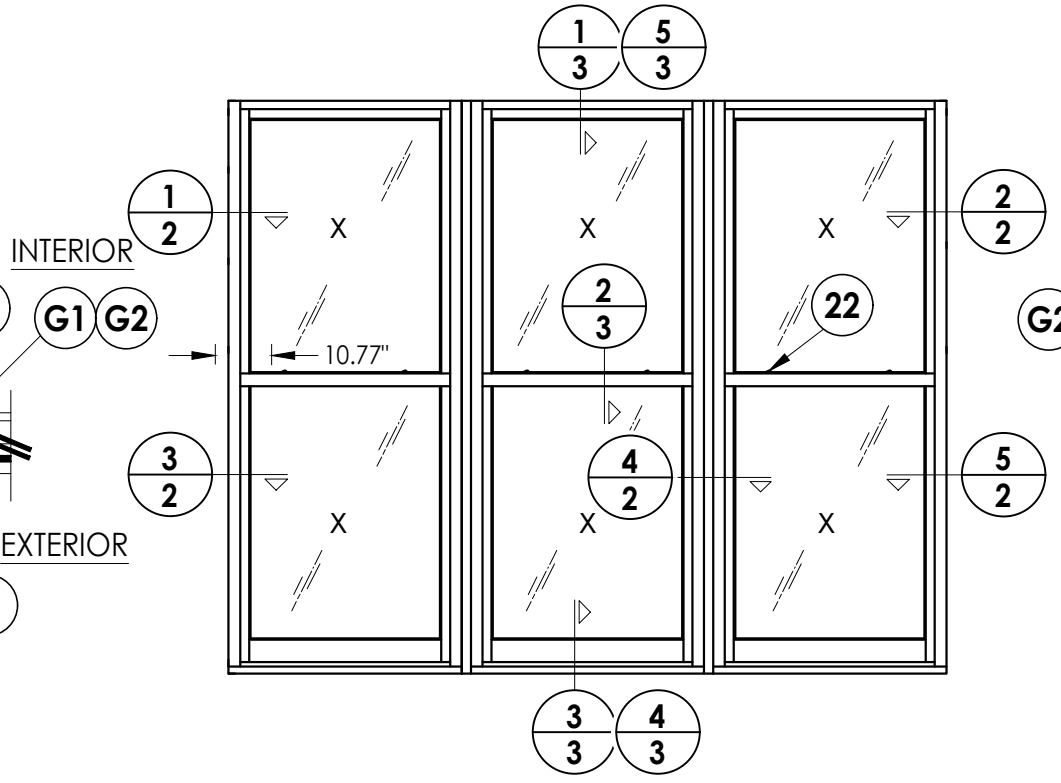
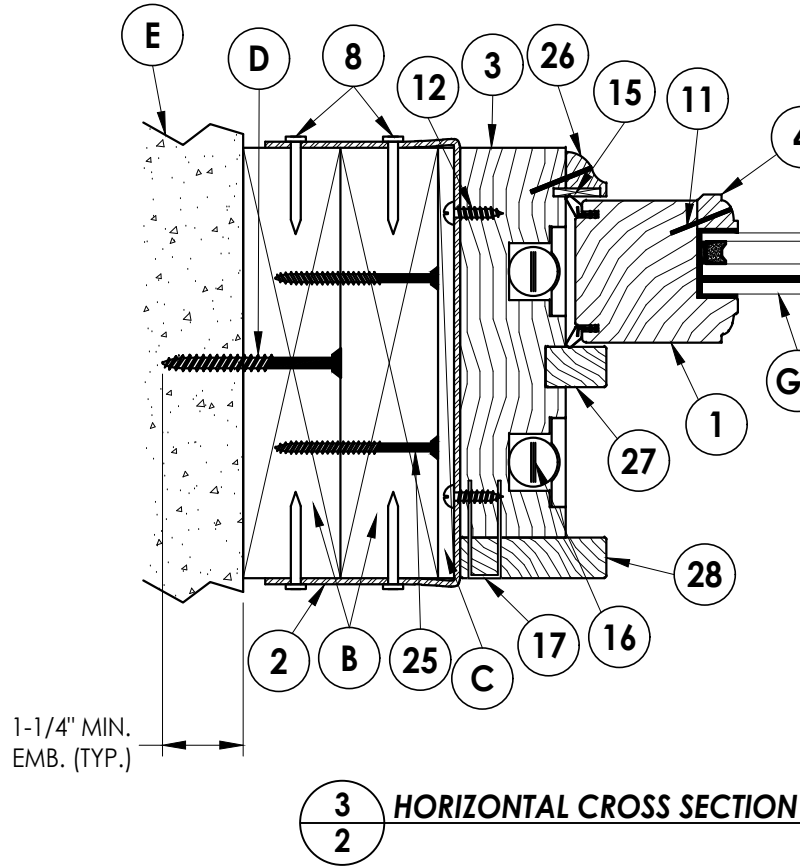
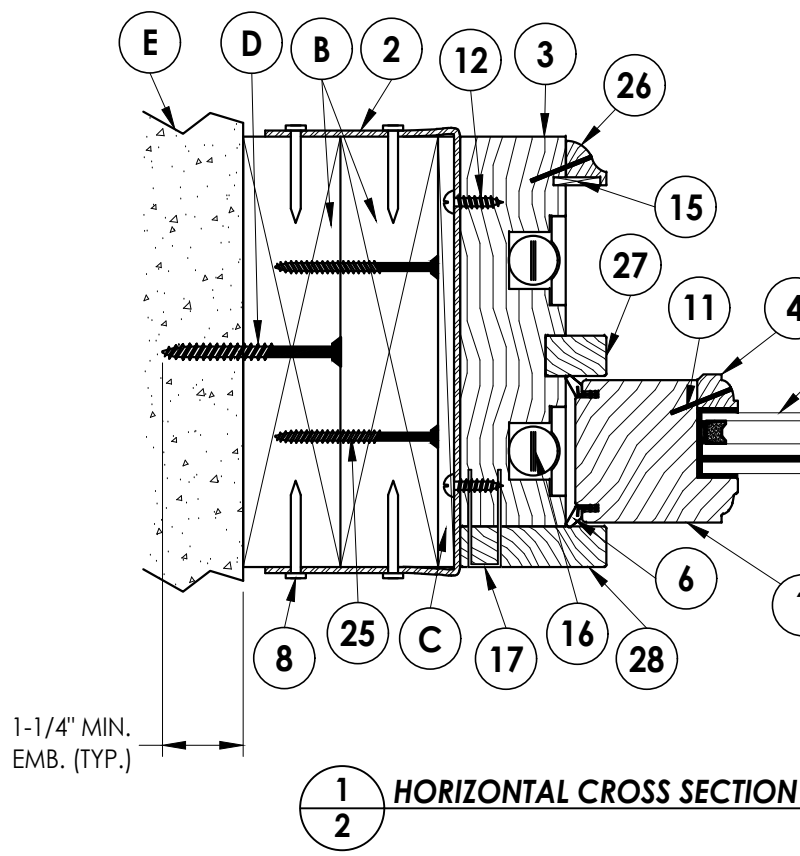
OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
140.13" x 111.13"	37.0" X 49.13"	G1	+65.0	-70.0
140.13" x 98.0"	37.0" X 42.31"	G2	+60.0	-65.0

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

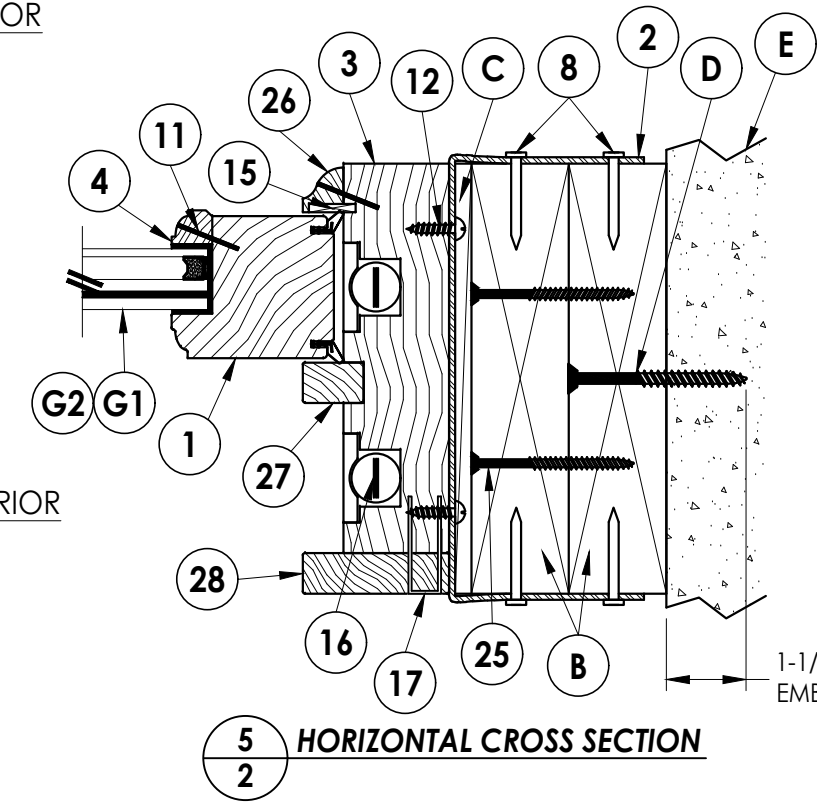
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		BRANNEN MILLWORKS DOUBLE HUNG WINDOW		PART OR ASSEMBLY:		TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
	LFS		FBC		JK		BY
6	9/13/23	UPDATE TO 8TH ED. (2023)	FBC				
5	9/16/20	UPDATE TO 7TH ED. (2020)	FBC				
4	7/10/17	UPDATE TO 6TH ED. (2017)	FBC				
3	02/15/16	ADD ALTERNATE FLANGE ANCHORING	LFS				
2	08/03/15	UPDATE TO 5TH ED. (2014)	FBC				
1	1/26/12	UPDATE TO 2010 FBC					
NO.	DATE			REVISIONS			
DATE: 10/2/08							
SCALE: N.T.S.							
DWG. BY: AL							
CHK. BY: LFS							
DRAWING NO.: FL-11474.6							
SHEET 1 OF 10							

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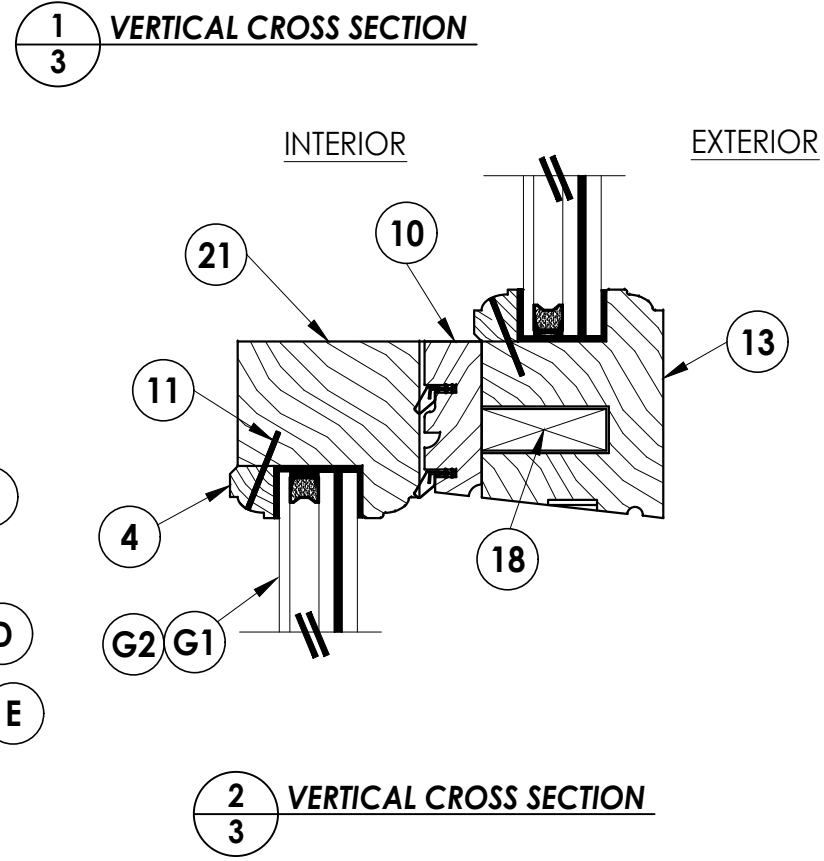
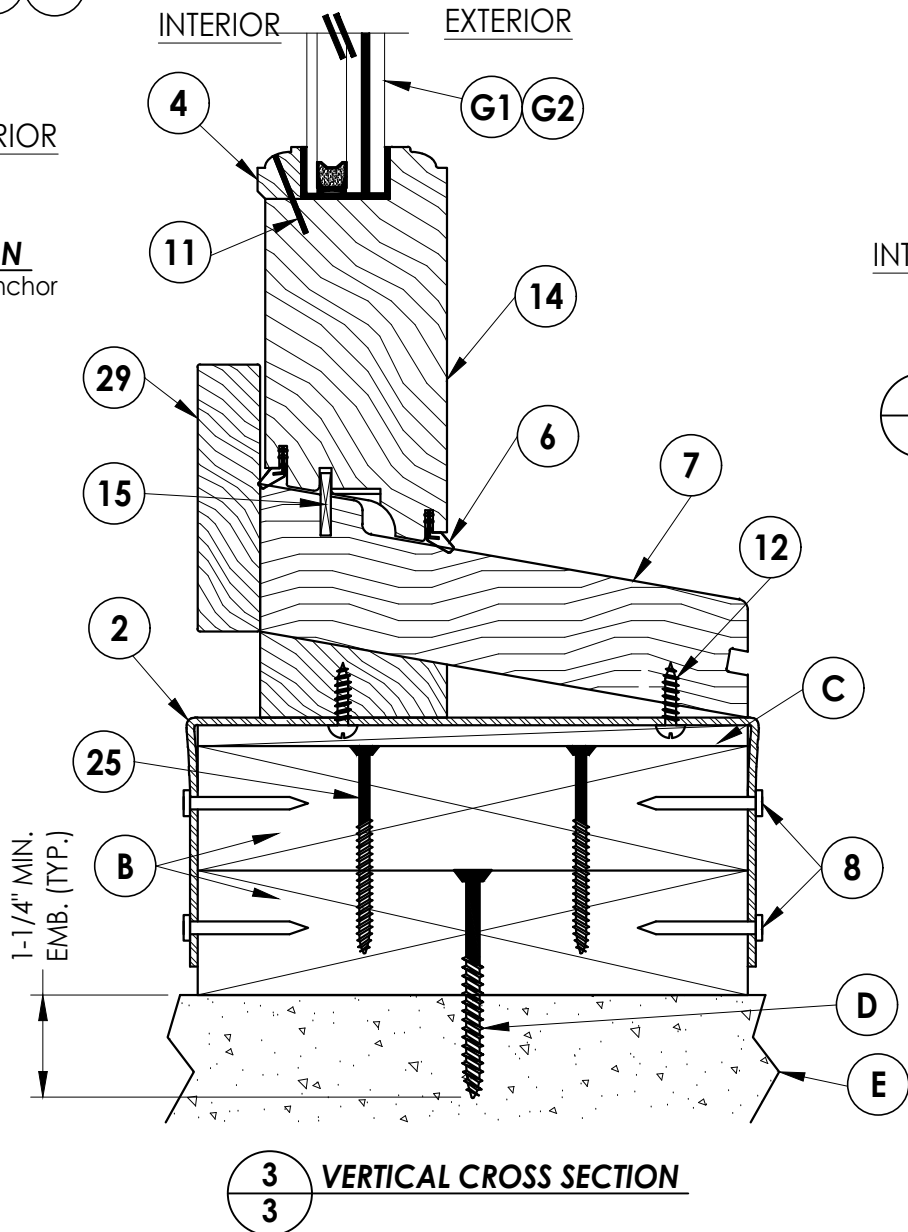
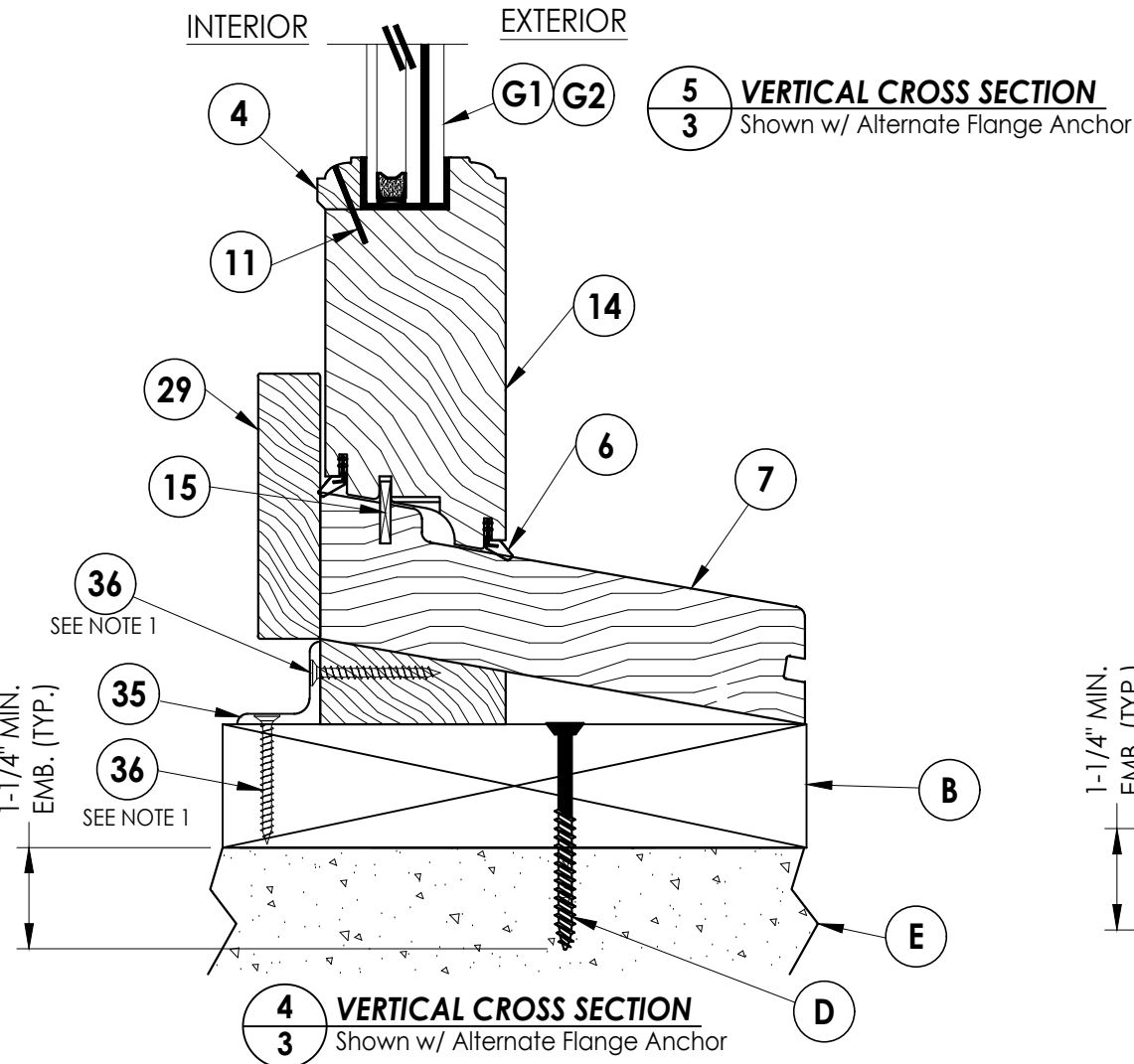
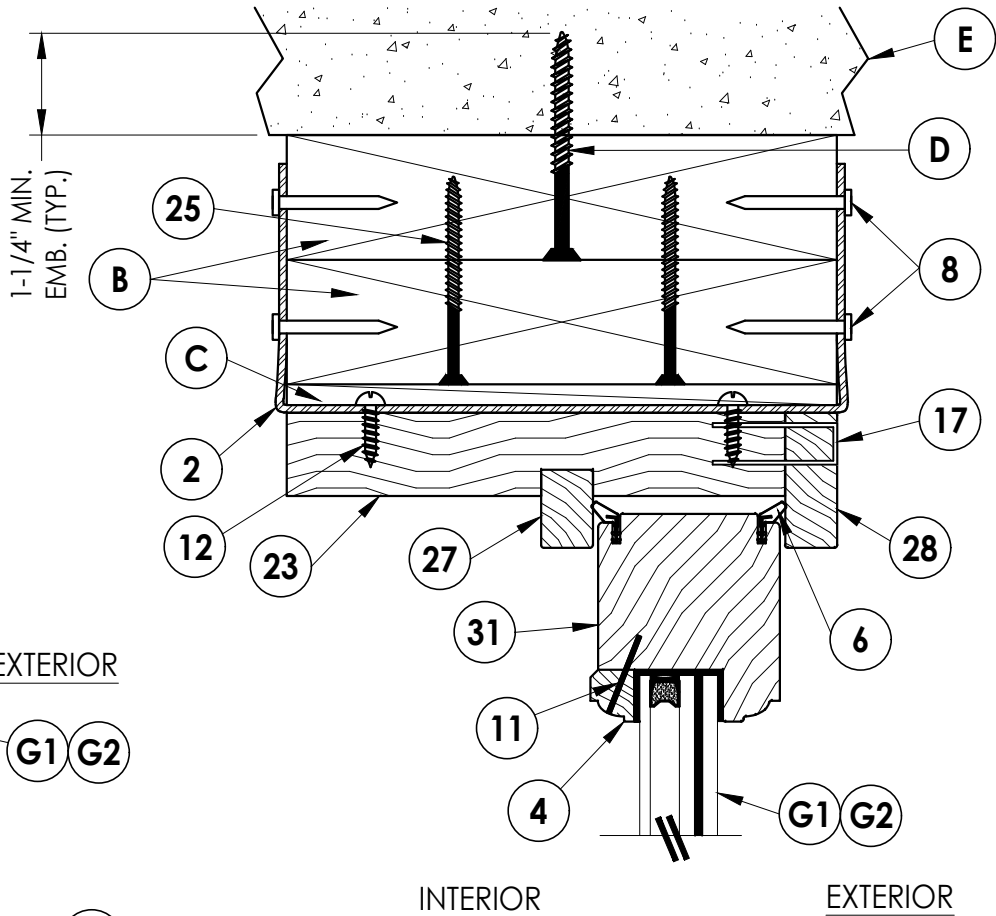
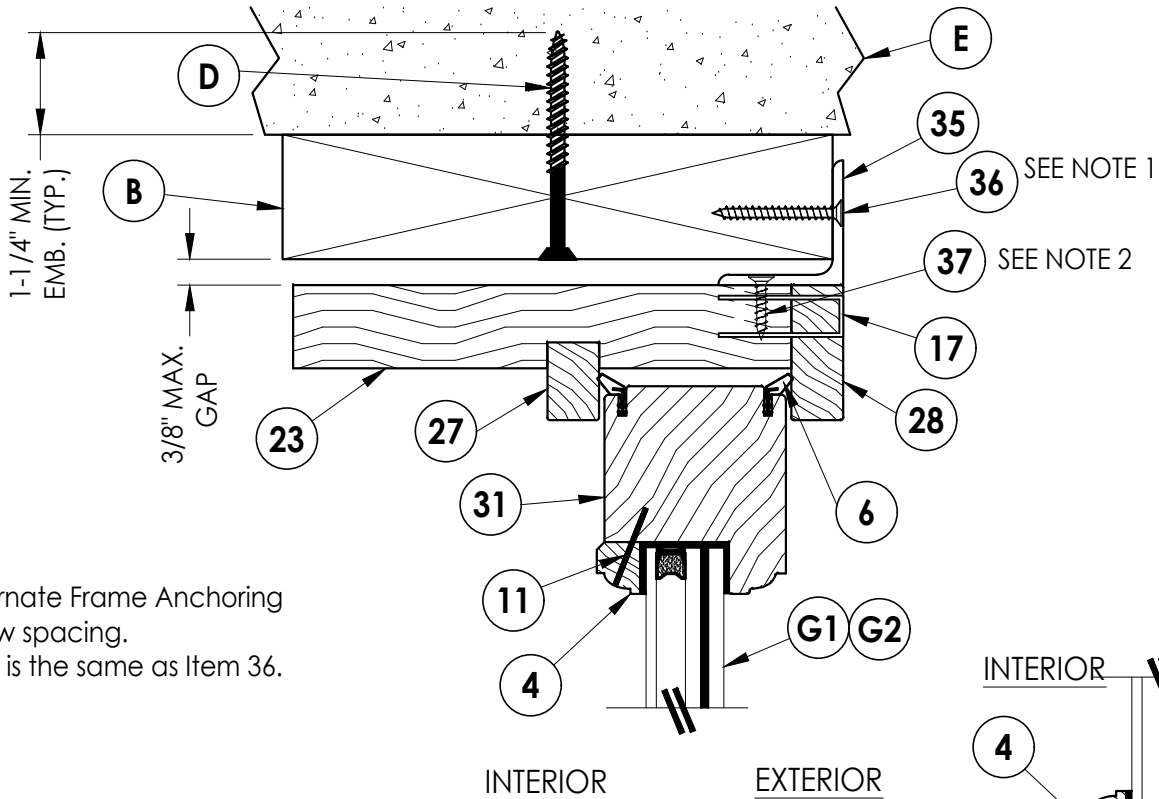
- NOTES:
- Item 36: See Alternate Frame Anchoring (Sheet 7) for screw spacing.
 - Item 37: Located 3" & 5" from each end & 10" max. o.c. spacing.



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 DOUBLE HUNG WINDOW				PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS MASONRY CONSTRUCTION			
LFS	6	9/13/23	UPDATE TO 8TH ED. (2023) FBC	REVISIONS			
LFS	5	9/16/20	UPDATE TO 7TH ED. (2020) FBC				
LFS	4	7/10/17	UPDATE TO 6TH ED. (2017) FBC				
LFS	3	02/15/16	ADD ALTERNATE FLANGE ANCHORING				
JK	2	08/03/15	UPDATE TO 5TH ED. (2014) FBC				
KV	1	1/26/12	UPDATE TO 2010 FBC				
BY	NO.	DATE					
DATE: 10/2/08							
SCALE: N.T.S.							
DWG. BY: AL							
CHK. BY: LFS							
DRAWING NO.: FL-11474.6							
SHEET 2 OF 10							

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- NOTES:
- Item 36: See Alternate Frame Anchoring (Sheet 7) for screw spacing.
 - Item 37: Spacing is the same as Item 36.



Documents Prepared By:
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P.E. No. 43409

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

PRODUCT:
BRANNEN MILLWORKS
DOUBLE HUNG WINDOW

PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS
MASONRY CONSTRUCTION

NO.	DATE	REVISIONS				
		LFS	FBC	FBC	FBC	BY
6	9/13/23	UPDATE TO 8TH ED. (2023)	FBC			
5	9/16/20	UPDATE TO 7TH ED. (2020)	FBC			
4	7/10/17	UPDATE TO 6TH ED. (2017)	FBC			
3	02/15/16	ADD ALTERNATE FLANGE ANCHORING				
2	08/03/15	UPDATE TO 5TH ED. (2014)	FBC			
1	1/26/12	UPDATE TO 2010 FBC				

DATE: 10/2/08

SCALE: N.T.S.

DWG. BY: AL

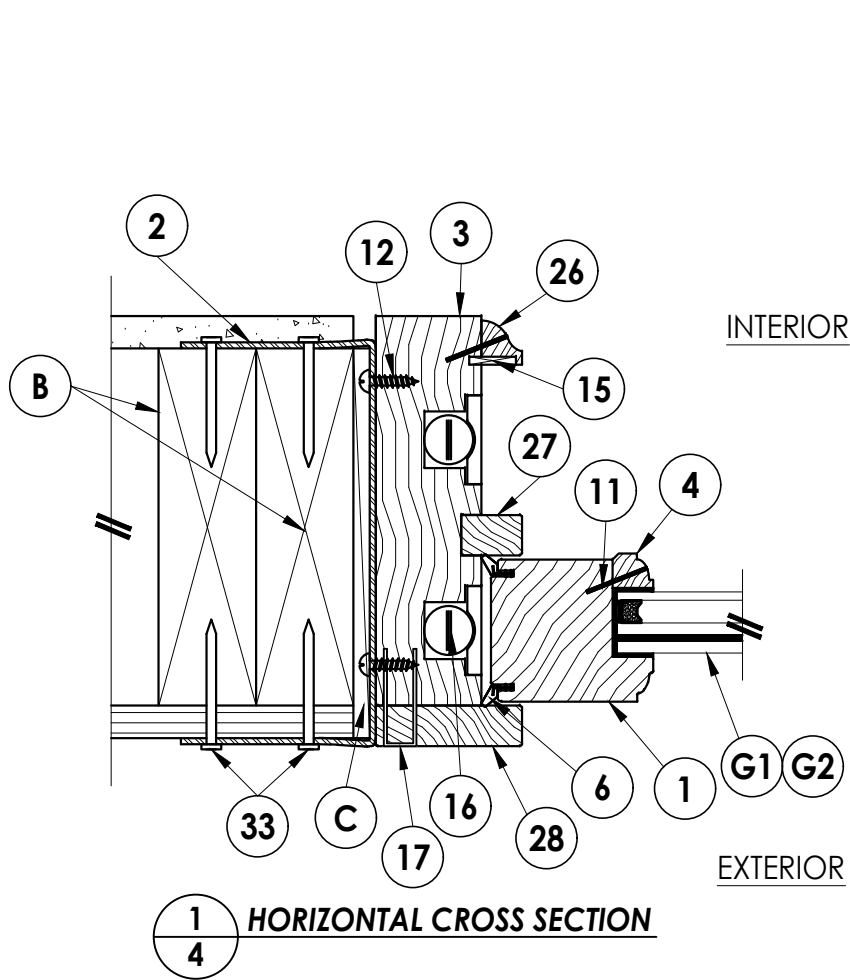
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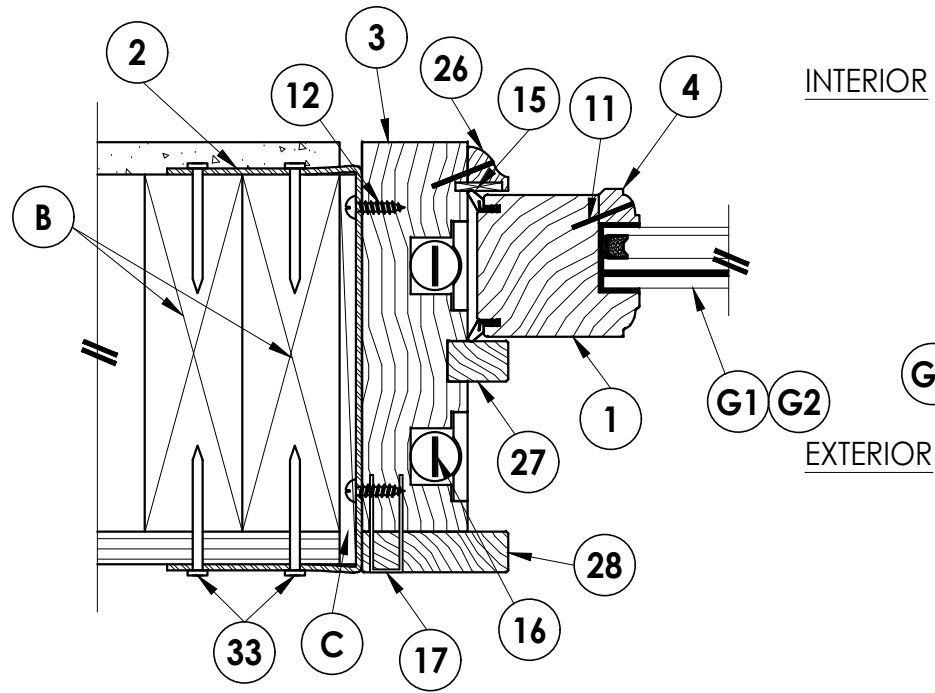
FL-11474.6

SHEET 3 OF 10

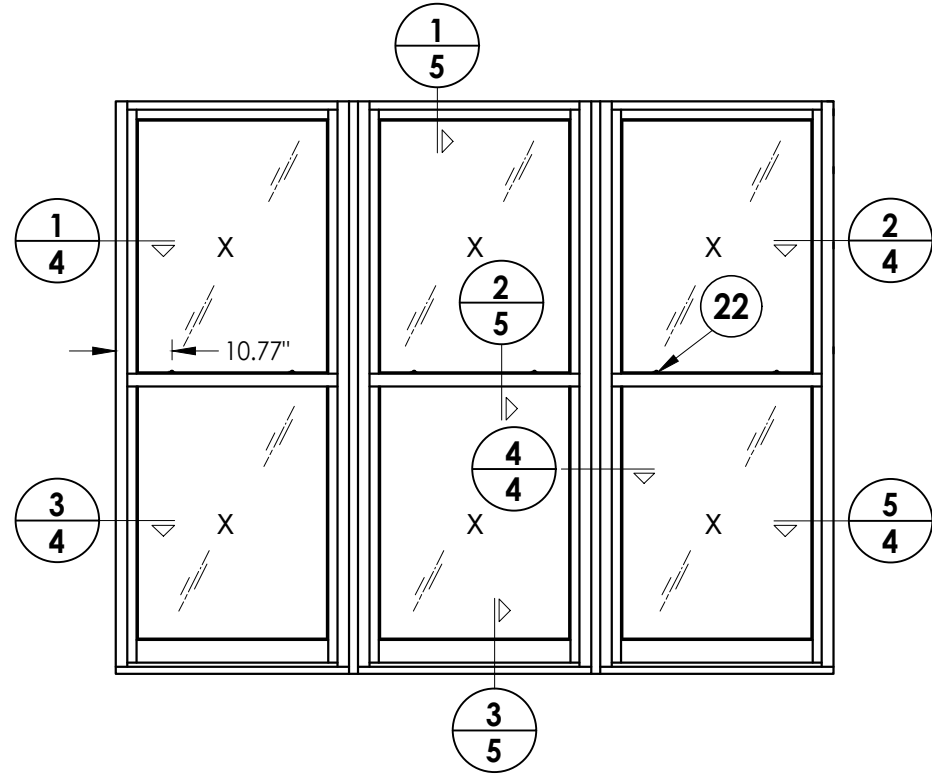
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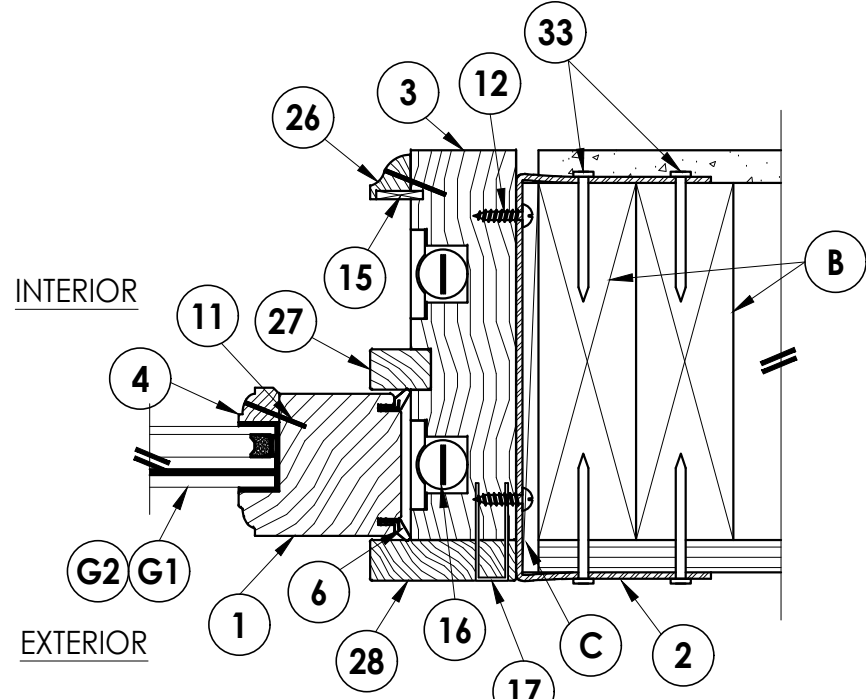
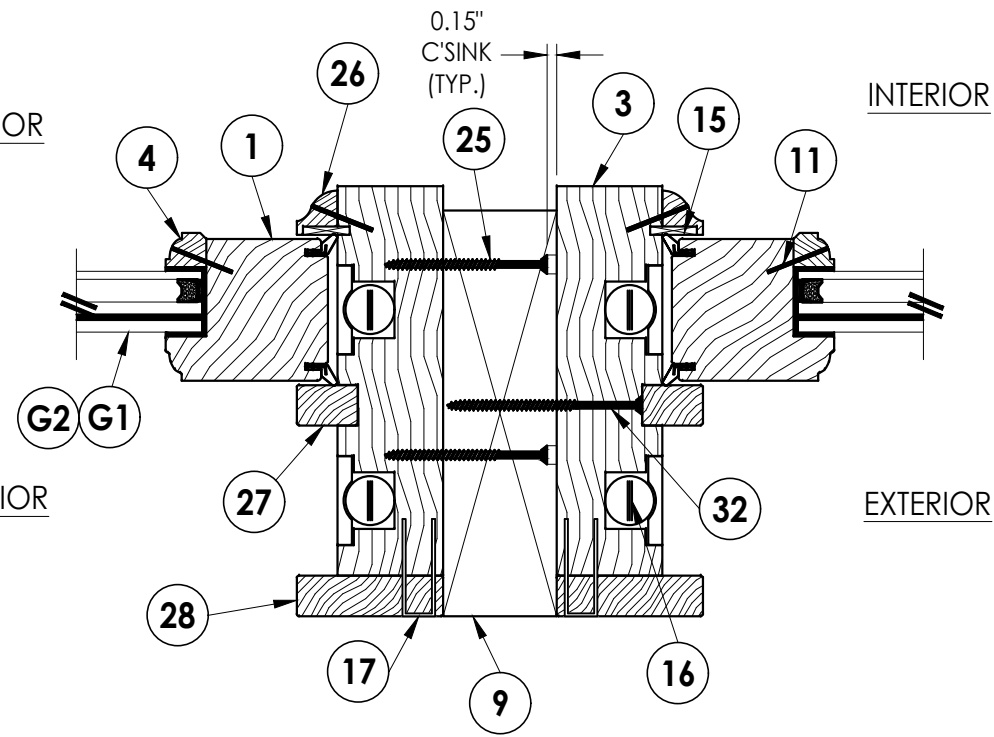
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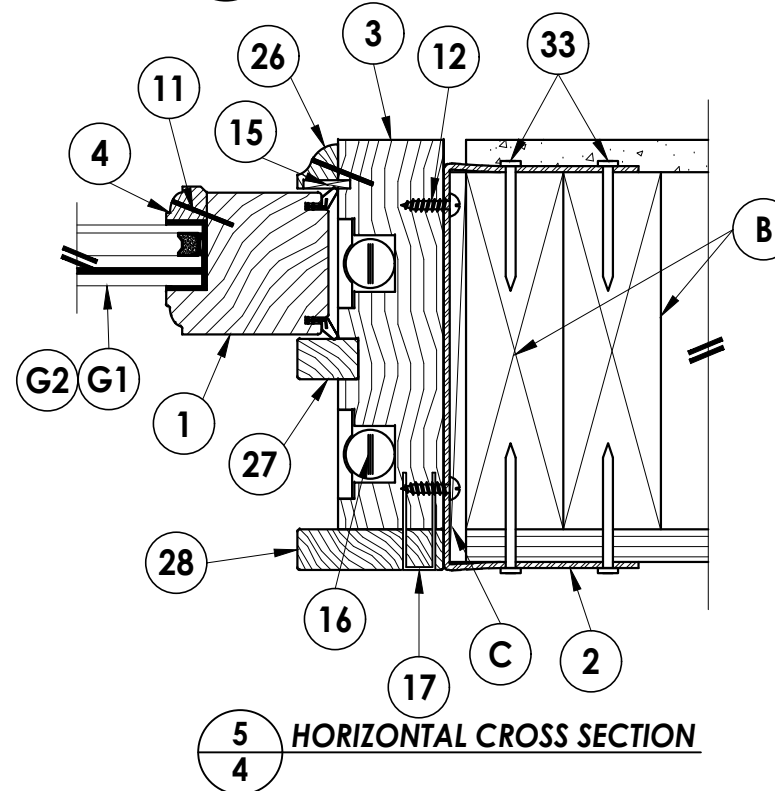
3/4 HORIZONTAL CROSS SECTION



4/4 HORIZONTAL CROSS SECTION



2/4 HORIZONTAL CROSS SECTION



5/4 HORIZONTAL CROSS SECTION

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FBPE Registry No. 9813

PRODUCT:
BRANNEN MILLWORKS
DOUBLE HUNG WINDOW

PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS
STUD CONSTRUCTION

NO.	DATE	REVISIONS
6	9/13/23	UPDATE TO 8TH ED. (2023) FBC
5	9/16/20	UPDATE TO 7TH ED. (2020) FBC
4	7/10/17	UPDATE TO 6TH ED. (2017) FBC
3	02/15/16	ADD ALTERNATE FLANGE ANCHORING
2	08/03/15	UPDATE TO 5TH ED. (2014) FBC
1	1/26/12	UPDATE TO 2010 FBC

DATE: 10/2/08

SCALE: N.T.S.

DWG. BY: AL

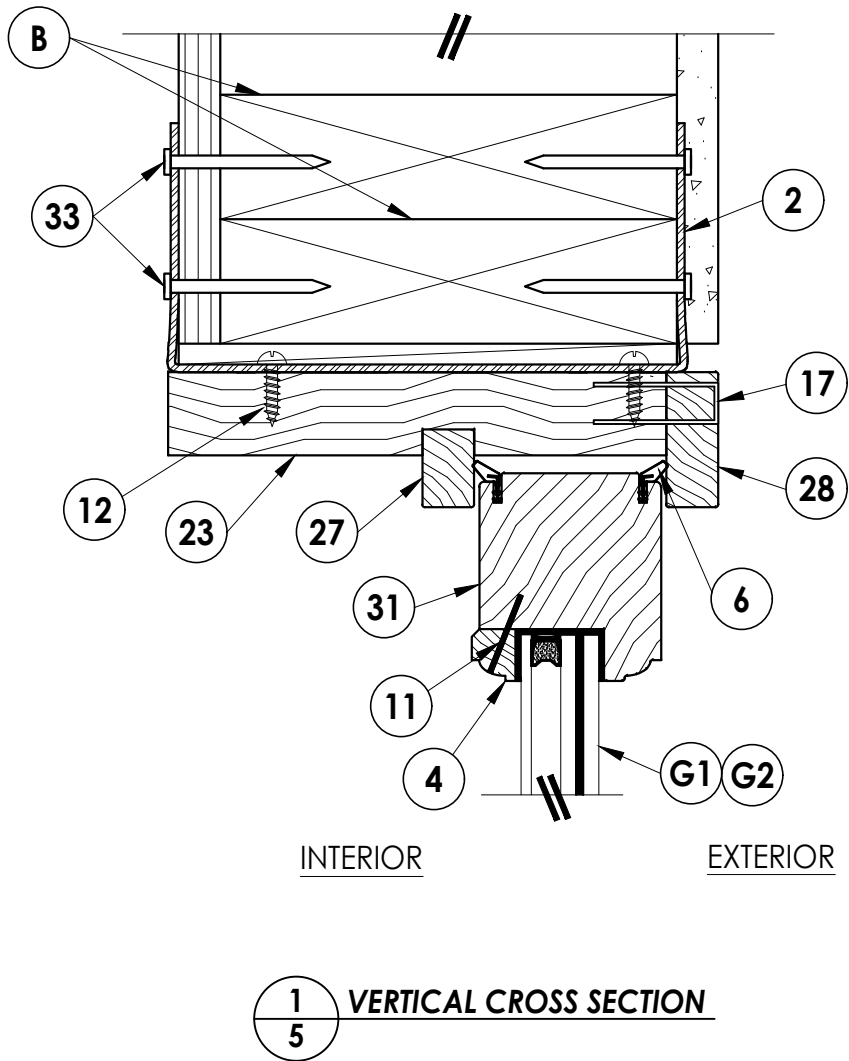
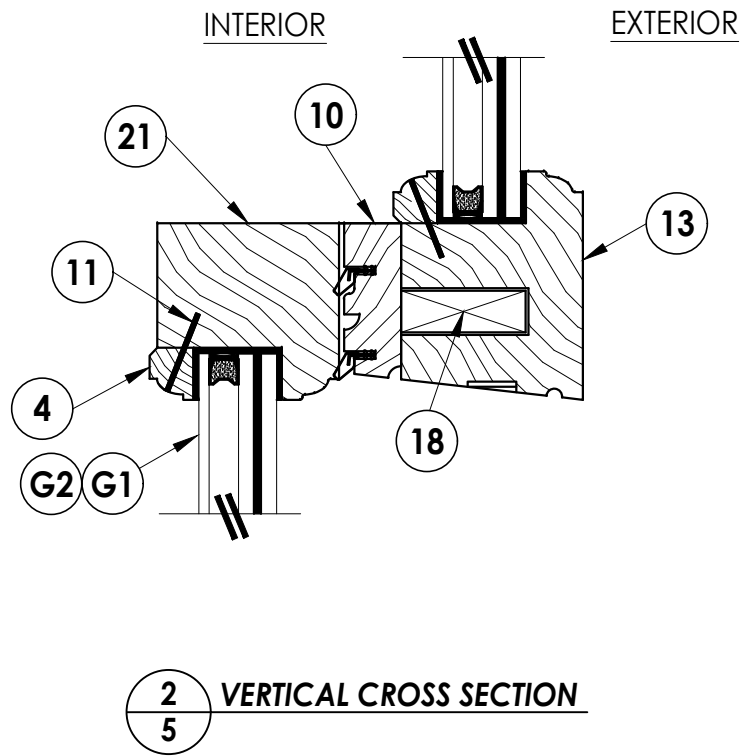
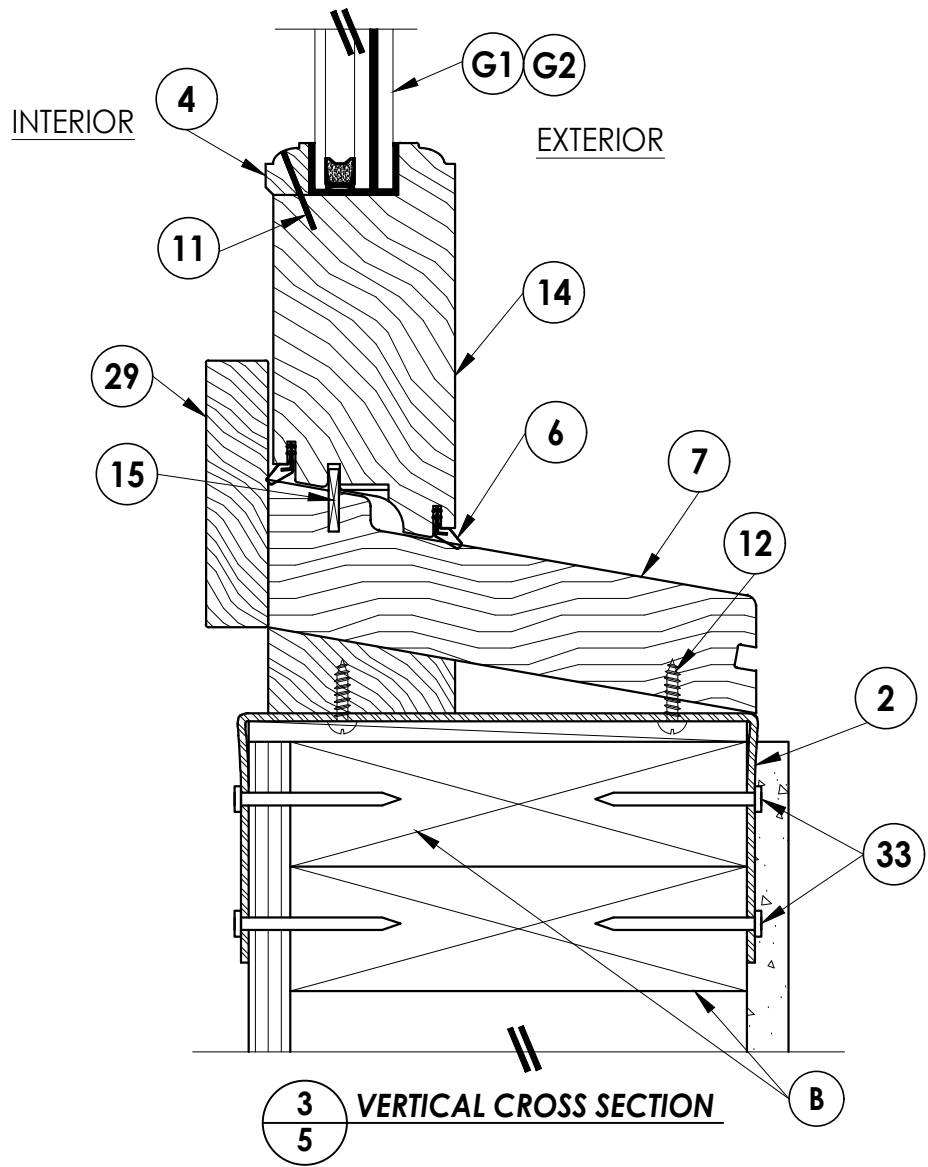
CHK. BY: LFS

DRAWING NO.:

FL-11474.6

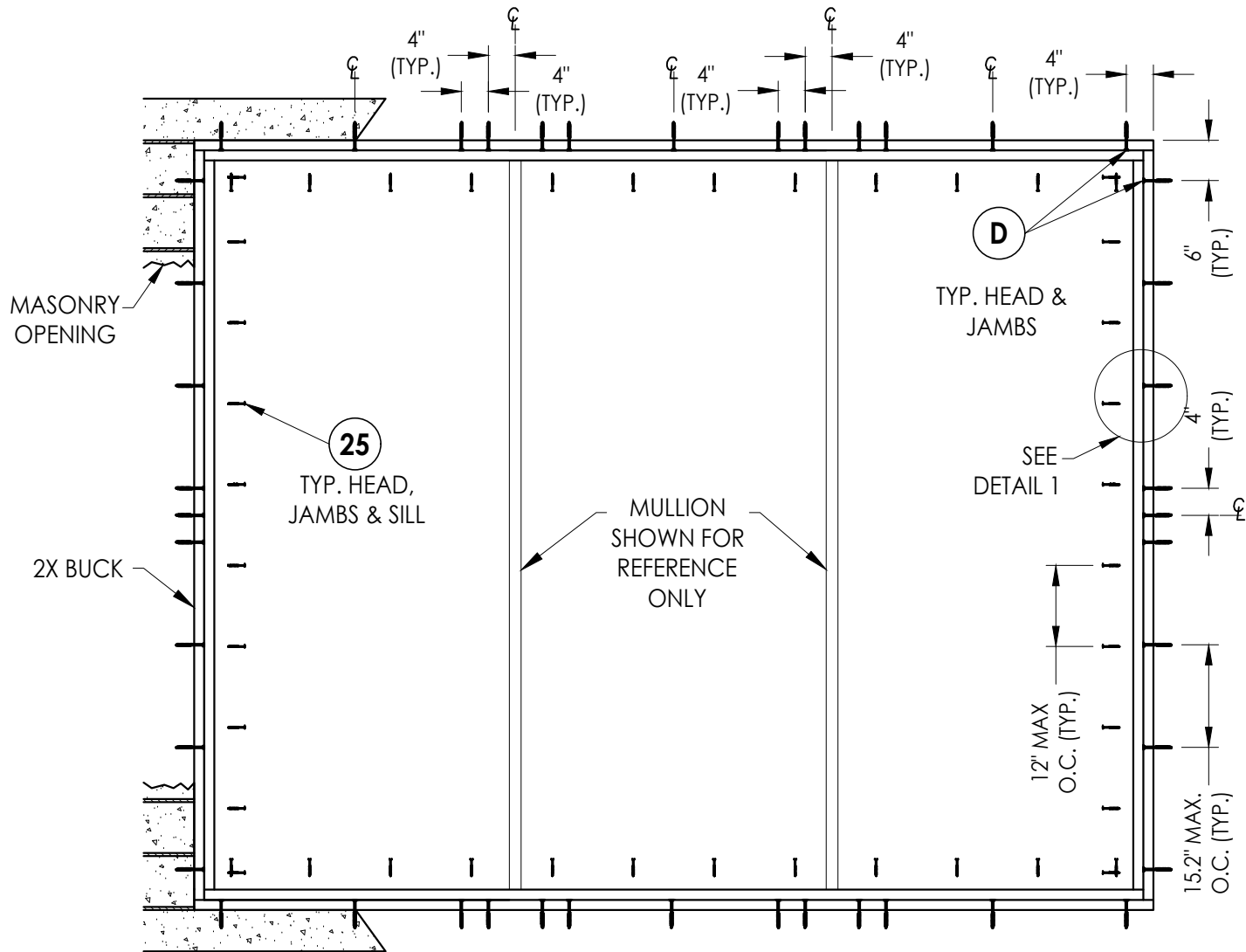
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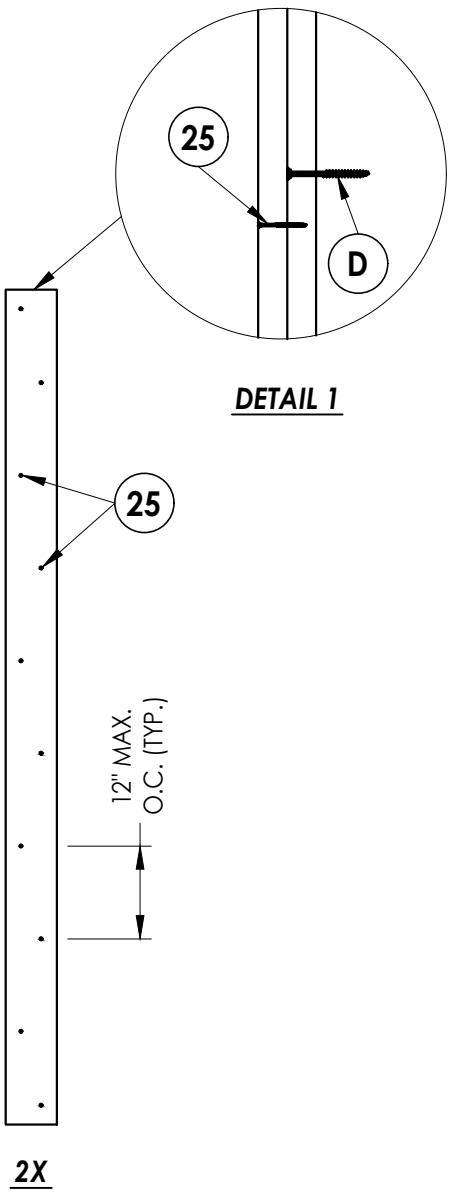


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: BRANNEN MILLWORKS DOUBLE HUNG WINDOW				PART OR ASSEMBLY: VERTICAL CROSS SECTIONS STUD CONSTRUCTION			
6	9/13/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	REVISIONS		
5	9/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS			
4	7/10/17	UPDATE TO 6TH ED. (2017)	FBC	LFS			
3	02/15/16	ADD ALTERNATE FLANGE ANCHORING		LFS			
2	08/03/15	UPDATE TO 5TH ED. (2014)	FBC	JK			
1	1/26/12	UPDATE TO 2010 FBC		KV			
NO.	DATE						
DATE: 10/2/08							
SCALE: N.T.S.							
DWG. BY: AL							
CHK. BY: LFS							
DRAWING NO.: FL-11474.6							
SHEET 5 OF 10							

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BUCK ANCHORING
Masonry construction



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:

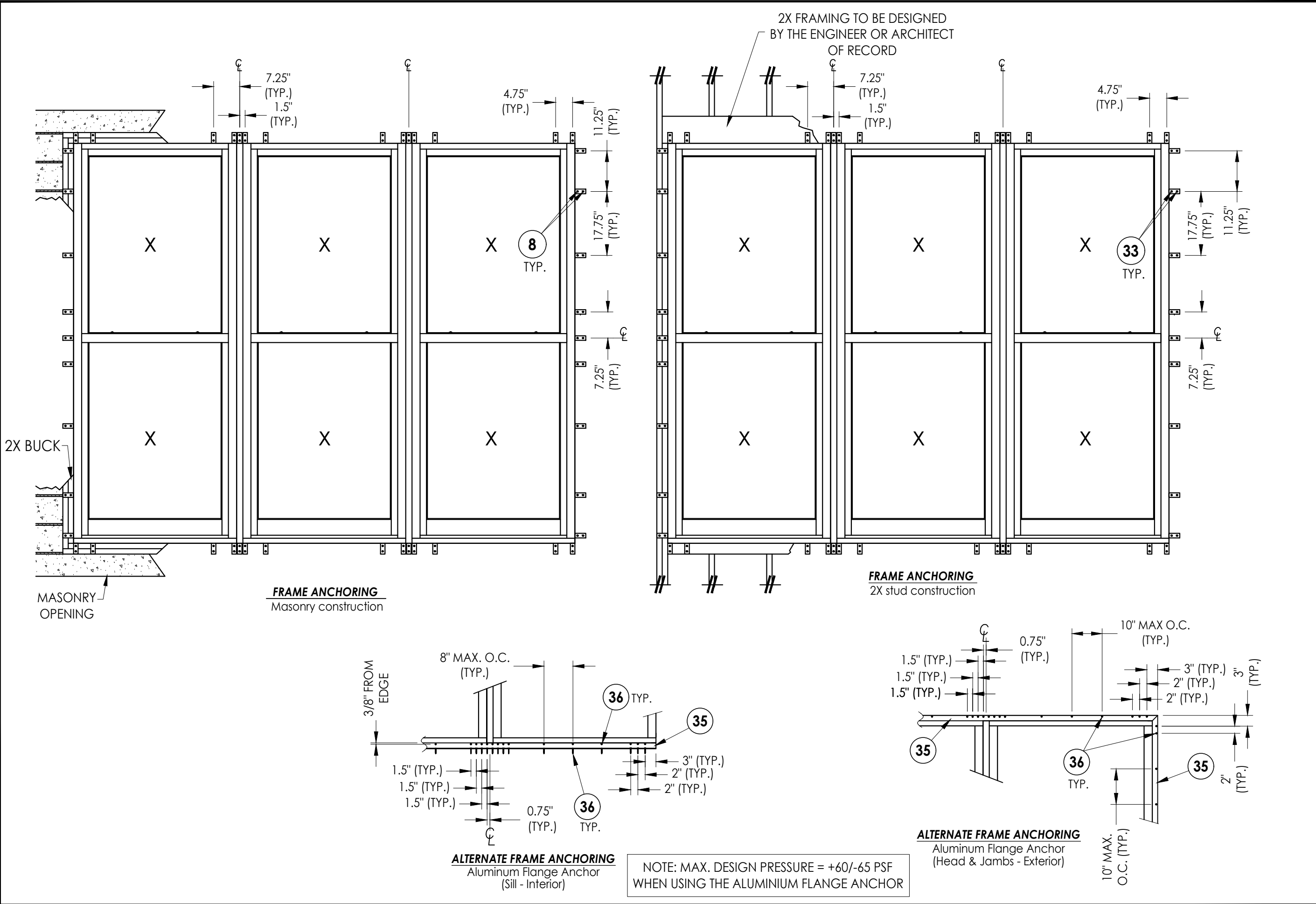
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	3"	4"
DeWALT ULTRA-CON®	1/4"	1-1/4"	2-1/2"	4"

WOOD SCREW/NAIL INSTALLATION NOTES:

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

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PRODUCT: BRANNEN MILLWORKS DOUBLE HUNG WINDOW					PART OR ASSEMBLY: BUCK ANCHORING				
6	9/13/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	REVISIONS				
5	9/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS					
4	7/10/17	UPDATE TO 6TH ED. (2017)	FBC	LFS					
3	02/15/16	ADD ALTERNATE FLANGE ANCHORING		LFS					
2	08/03/15	UPDATE TO 5TH ED. (2014)	FBC	JK					
1	1/26/12	UPDATE TO 2010 FBC		KV					
NO.	DATE			BY					
DATE: 10/2/08									
SCALE: N.T.S.									
DWG. BY: AL									
CHK. BY: LFS									
DRAWING NO.: FL-11474.6									
SHEET 6 OF 10									

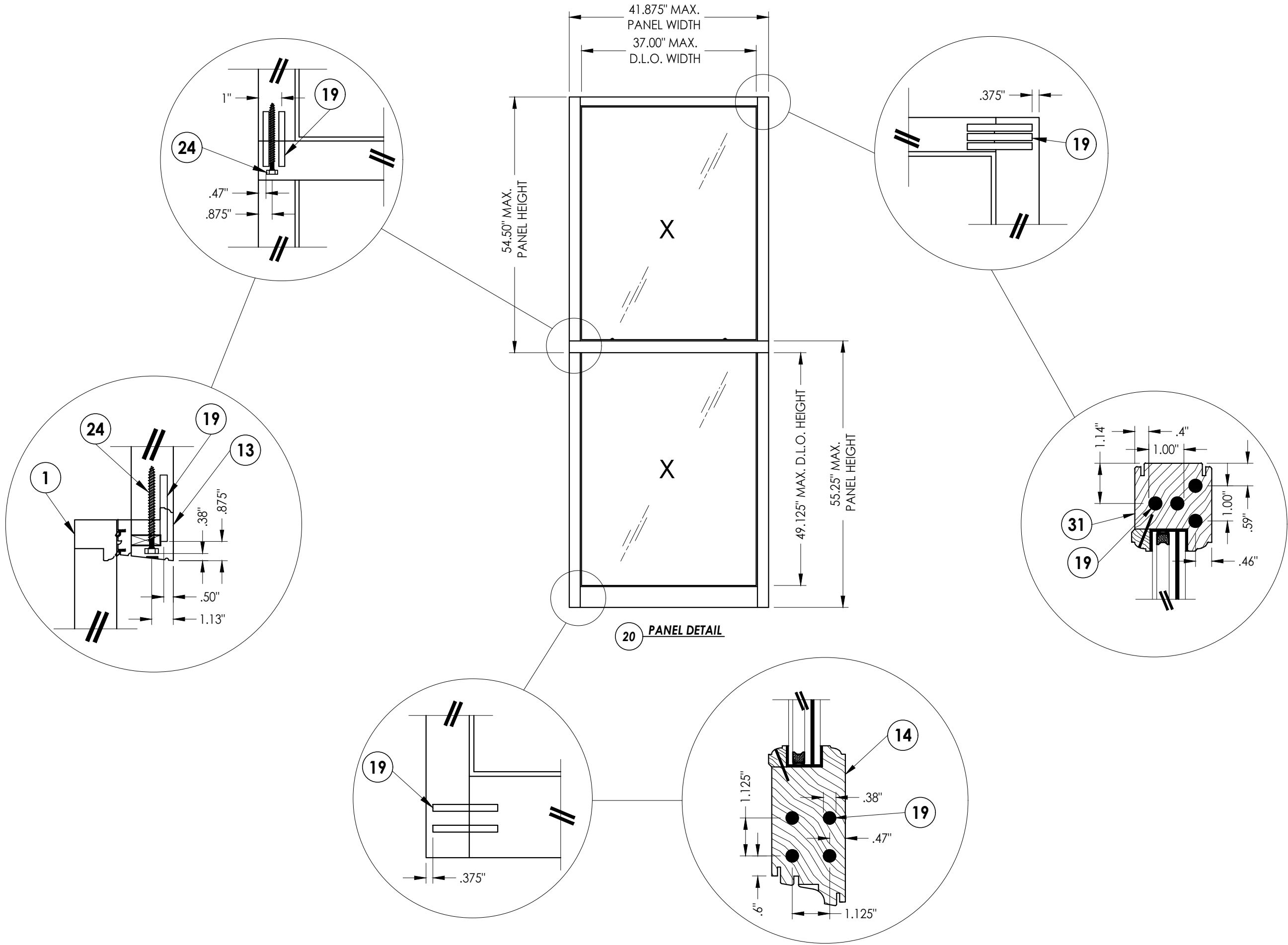
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NOTE: MAX. DESIGN PRESSURE = +60/-65 PSF
WHEN USING THE ALUMINIUM FLANGE ANCHOR

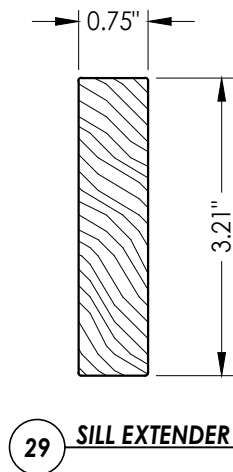
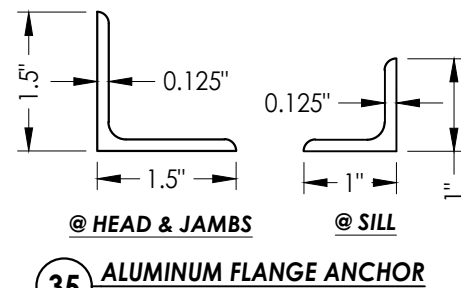
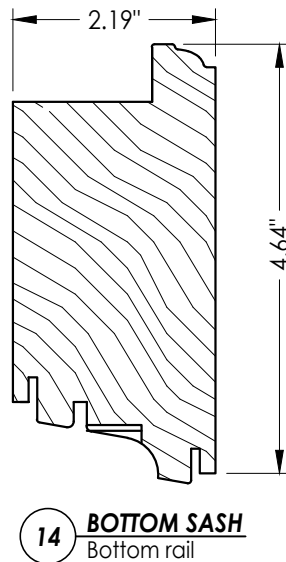
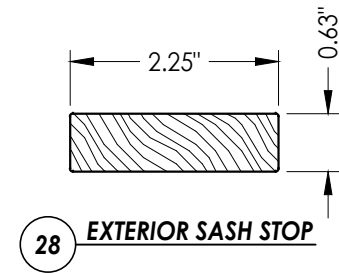
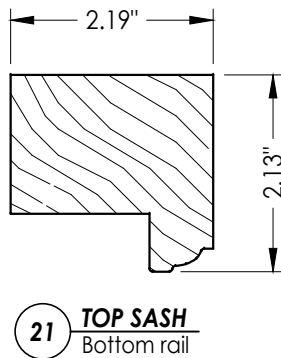
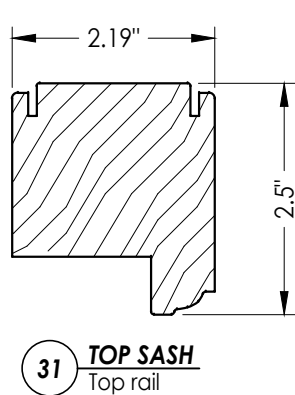
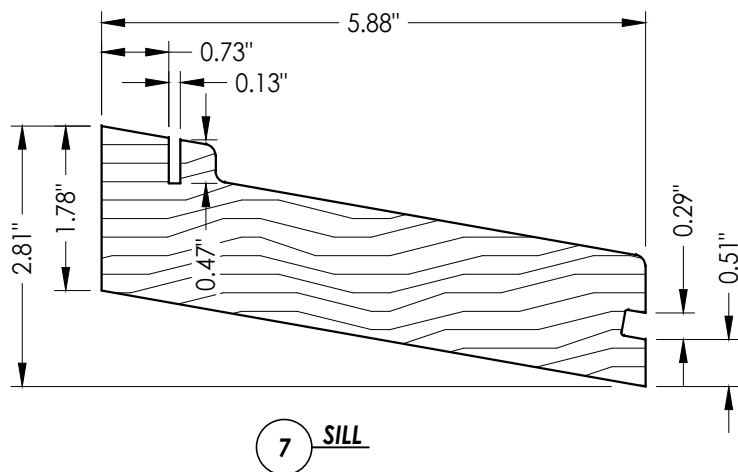
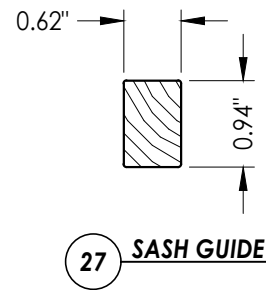
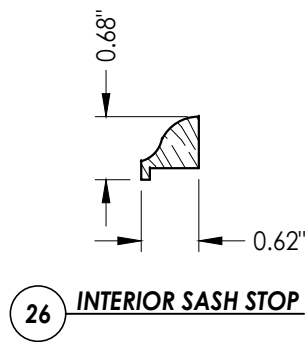
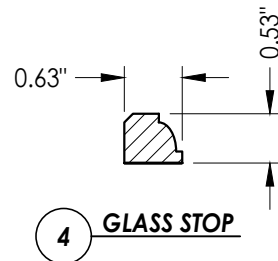
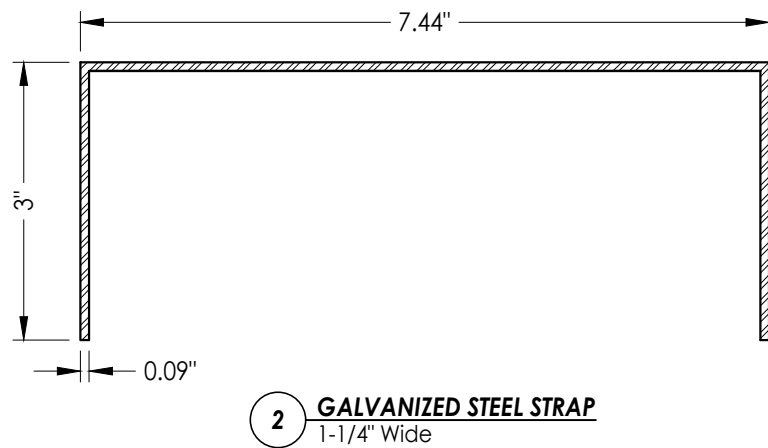
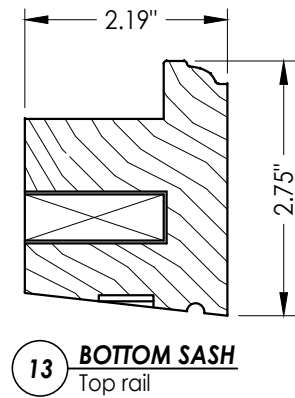
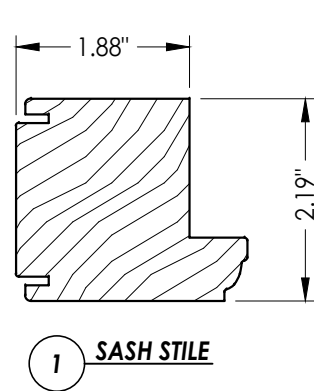
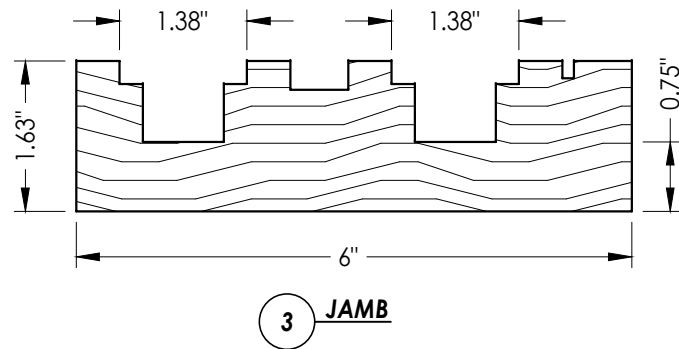
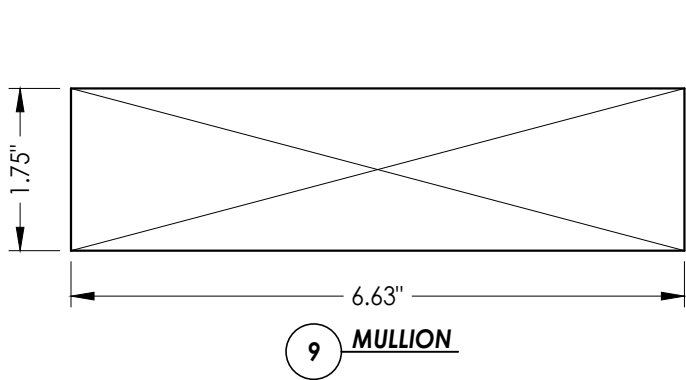
Documents Prepared By:		Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT:					
BRANNEN MILLWORKS DOUBLE HUNG WINDOW		PART OR ASSEMBLY: FRAME ANCHORING			
6	9/13/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
5	9/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
4	7/10/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
3	02/15/16	ADD ALTERNATE FLANGE ANCHORING		LFS	
2	08/03/15	UPDATE TO 5TH ED. (2014)	FBC	JK	
1	1/26/12	UPDATE TO 2010 FBC		KV	
NO.	DATE				
REVISIONS					
DATE: 10/2/08					
SCALE: N.T.S.					
DWG. BY: AL					
CHK. BY: LFS					
DRAWING NO.: FL-11474.6					
SHEET 7 OF 10					

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DATE: 10/2/08					
SCALE: N.T.S.					
DWG. BY: AL					
CHK. BY: LFS					
DRAWING NO.: FL-11474.6					
SHEET 8 OF 10					
6	9/13/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	REVISIONS
5	9/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
4	7/10/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
3	02/15/16	ADD ALTERNATE FLANGE ANCHORING	FBC	LFS	
2	08/03/15	UPDATE TO 5TH ED. (2014)	FBC	JK	
1	1/26/12	UPDATE TO 2010 FBC	FBC	KV	
NO.		DATE		BY	
PRODUCT: BRANNEN MILLWORKS DOUBLE HUNG WINDOW					
PART OR ASSEMBLY: PANEL DETAILS					
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409					
RW BUILDING CONSULTANTS, INC. P.O. Box 230, Vairico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813					

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DATE:		10/2/08	
SCALE:		N.T.S.	
DWG. BY:		AL	
CHK. BY:		LFS	
DRAWING NO.:		FL-11474.6	
SHEET		9 OF 10	

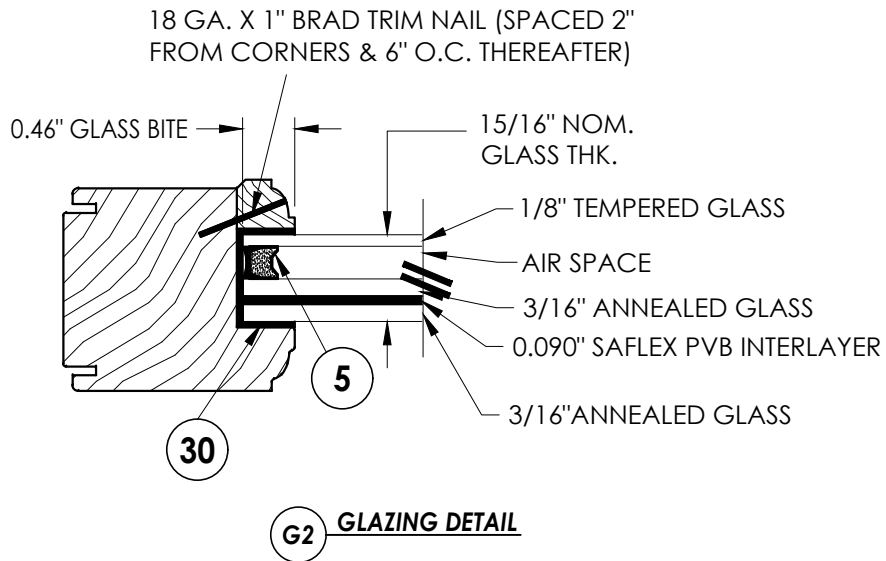
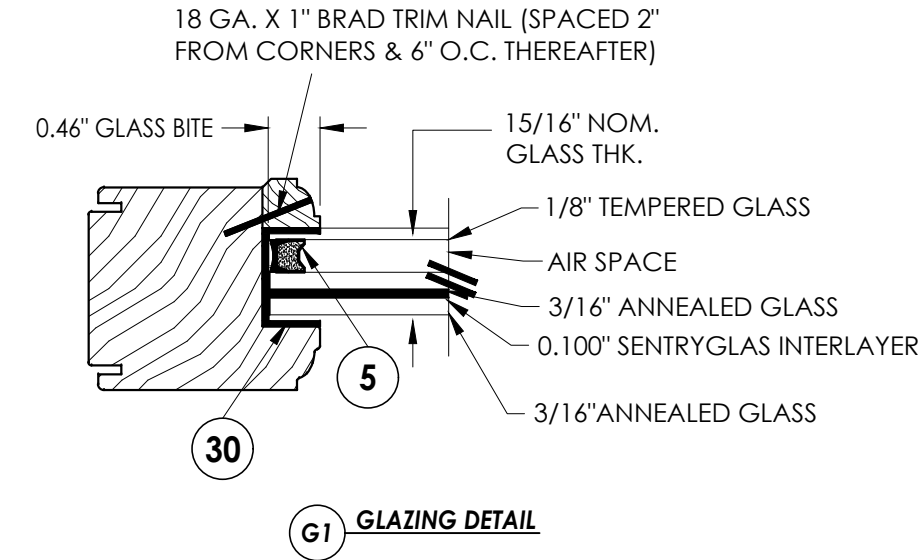
PRODUCT:		BRANNEN MILLWORKS DOUBLE HUNG WINDOW	
PART OR ASSEMBLY:		COMPONENTS	

Documents Prepared By:		Lyndon F. Schmidt P.E. No. 43409	
R.W.		BUILDING CONSULTANTS, INC. P.O. Box 230, Vairico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	

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BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
B	2X BUCK SG >= 0.55	WOOD
C	3/8" MAX SHIM SPACE	-
D	1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
1	SASH STILE	WOOD
2	GALVANIZED STEEL STRAP	STEEL
3	JAMB	WOOD
4	GLASS STOP	WOOD
5	GLAZING SPACER (DESICCANT FILLED)	ST. STEEL
6	WEATHERSTRIP QEZD250 BY SCHLEGEL	-
7	SILL	WOOD
8	#7 X 1-1/2" GALVANIZED NAIL (1-3/8" MIN. EMBEDMENT)	STEEL
9	MULLION	WOOD
10	MEETING RAIL	WOOD
11	18 GAUGE X 1" BRAD	STEEL
12	#10 X 3/4" PH SMS	ST. STEEL
13	BOTTOM SASH TOP RAIL	WOOD
14	BOTTOM SASH BOTTOM RAIL	WOOD
15	1/8" X 3/4" BRASS SLIDE	BRASS
16	SUPER-LIFT SPIRAL TUBE BALANCE BY UNIQUE BALANCE	-
17	1/2" X 1-1/2" STAPLE (16 GA.)	STEEL
18	1/2" X 1-1/2" MEETING RAIL REINFORCEMENT	ALUM.
19	DOWEL 3/8" X 3-1/2"	WOOD
20	PANEL DETAIL	-
21	TOP SASH BOTTOM RAIL	WOOD
22	WINDOW LOCK	STEEL
23	FRAME HEADER	WOOD
24	#24 X 4-1/4" HWH LAG BOLT	STEEL
25	#10 X 2-1/2" PFH WOOD SCREW	STEEL
26	INTERIOR SASH STOP	WOOD
27	SASH GUIDE	WOOD
28	EXTERIOR SASH STOP	WOOD
29	SILL EXTENDER	WOOD
30	DOW 995 STRUCTURAL SILICONE GLAZING COMPOUND	SILICONE
31	TOP SASH TOP RAIL	WOOD
32	#8 X 3" PFH WOOD SCREW	STEEL
33	#7 X 2" GALVANIZED NAIL (1-3/8" MIN. EMBEDMENT)	STEEL
35	ALUMINUM FLANGE ANCHOR (6063-T5)	WOOD
36	#8 X 1-1/2" FH DEEP THREAD WOOD SCREW (1-1/4" MIN. EMBEDMENT)	STEEL
37	#8 X 3/4" PFH WOOD SCREW (5/8" MIN. EMBEDMENT)	STEEL

NOTE: WINDOW FRAME WOOD (SG >= 0.54)



NOTE: GLAZING > 36" WIDE REQUIRES TWO (2) SETTING BLOCKS CONFORMING TO FBC SECTION 2411.3.3.1.

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Vairico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: BRANNEN MILLWORKS DOUBLE HUNG WINDOW	PART OR ASSEMBLY: BILL OF MATERIALS & GLAZING DETAIL		
	LFS	FBC	REVISIONS
6	9/13/23	UPDATE TO 8TH ED. (2023)	
5	9/16/20	UPDATE TO 7TH ED. (2020)	
4	7/10/17	UPDATE TO 6TH ED. (2017)	
3	02/15/16	ADD ALTERNATE FLANGE ANCHORING	
2	08/03/15	UPDATE TO 5TH ED. (2014)	
1	1/26/12	UPDATE TO 2010 FBC	
	NO.	DATE	
DATE: 10/2/08			
SCALE: N.T.S.			
DWG. BY: AL			
CHK. BY: LFS			
DRAWING NO.: FL-11474.6			
SHEET 10 OF 10			