

BRANNEN MILLWORK

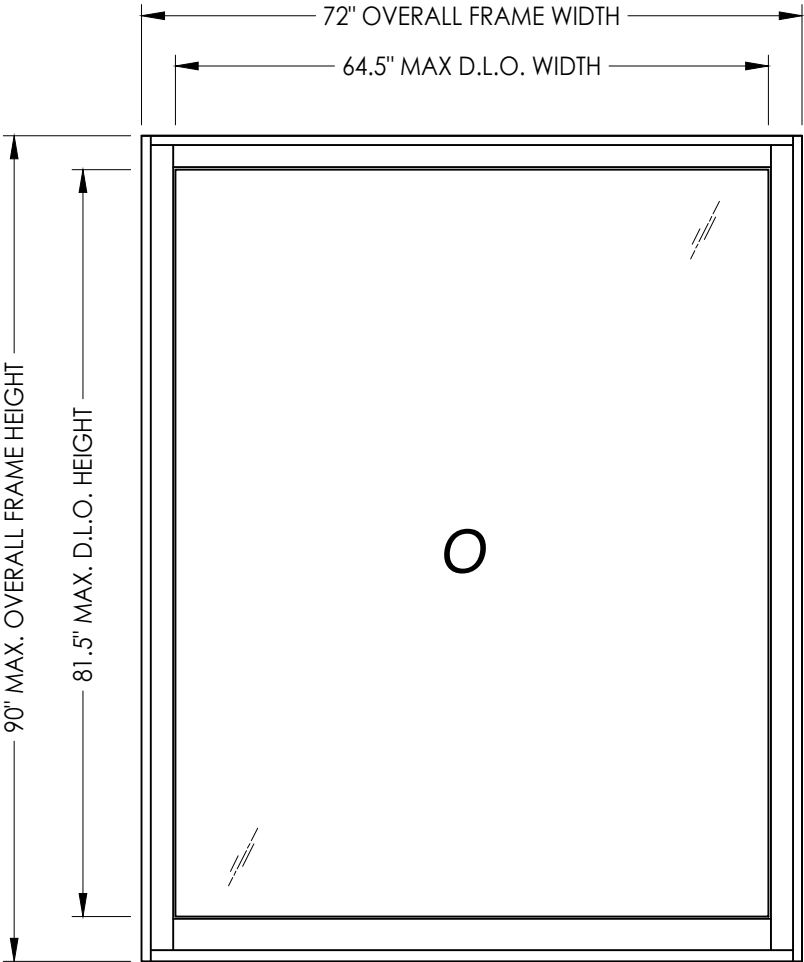
3379 EAST HWY. 46
REGISTER, GEORGIA 30452

FIXED WINDOWS "IMPACT"

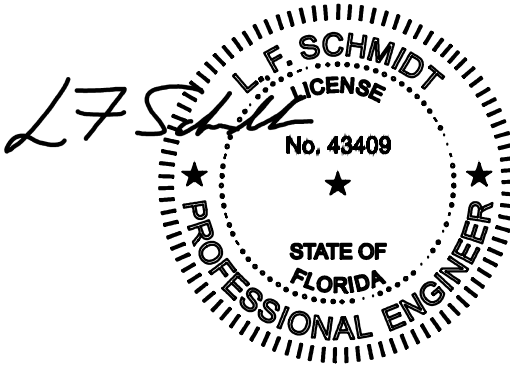
GENERAL NOTES

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 requiring wind borne debris protection this product complies with Section 1609.1.2 of the FBC 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 & R301.2.1.2.
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".

TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Frame details
3	Vertical cross sections
4	Horizontal cross section
5	Buck and frame anchoring
6	Components and glazing details
7	Bill of materials



OVERALL FRAME DIMENSION	MAX OVERALL D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
72.0" x 90.0"	64.50" X 81.5"	+60.0	-65.0



Digitally signed by
Lyndon F Schmidt
Date: 2023.10.10
15:48:11 -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

PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

4	8/30/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
3	9/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
2	7/07/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
1	08/04/15	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

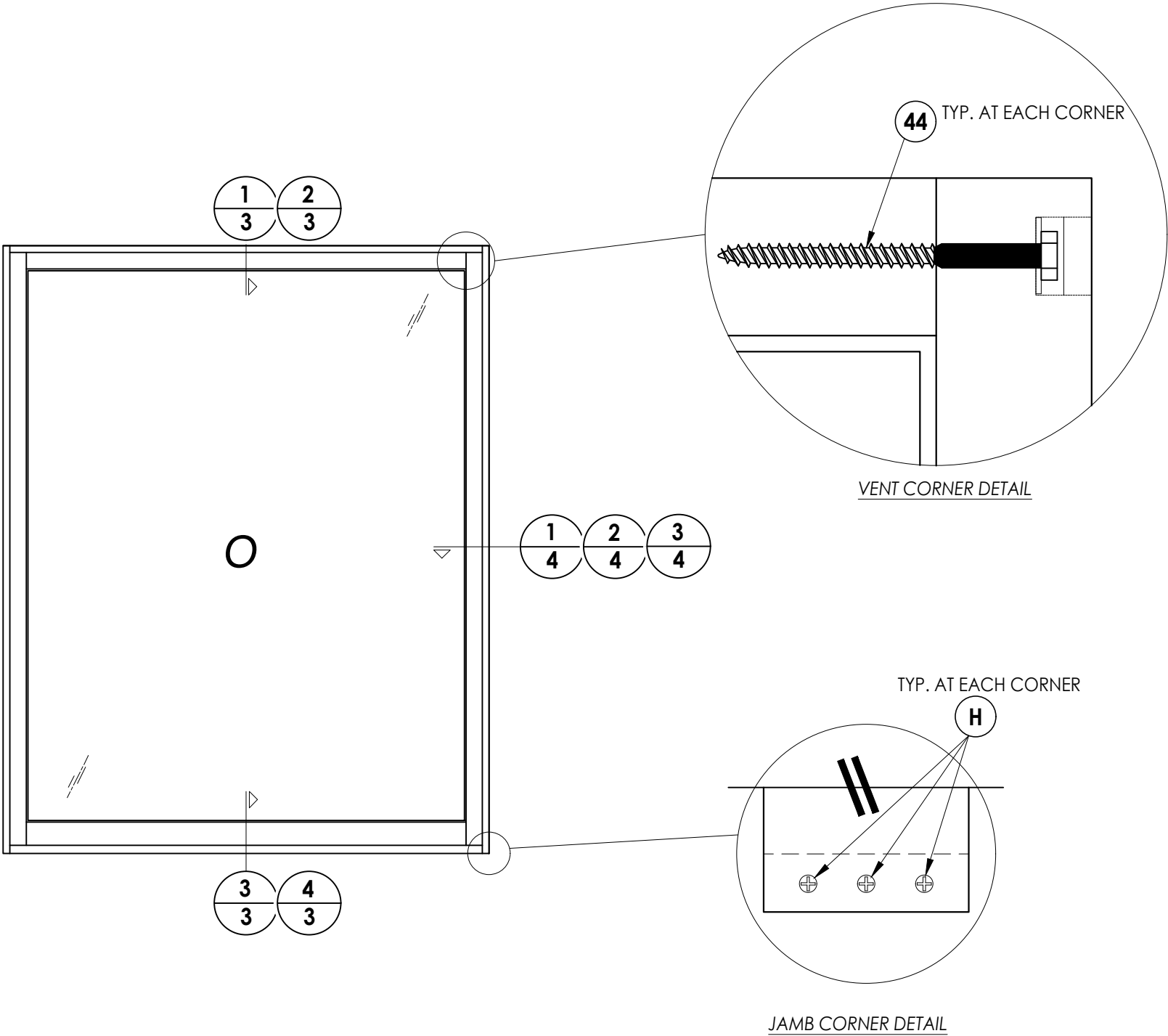
DRAWING NO.: FL-15655.1

SHEET 1 OF 7

© 2012 R.W. BUILDING CONSULTANTS INC.

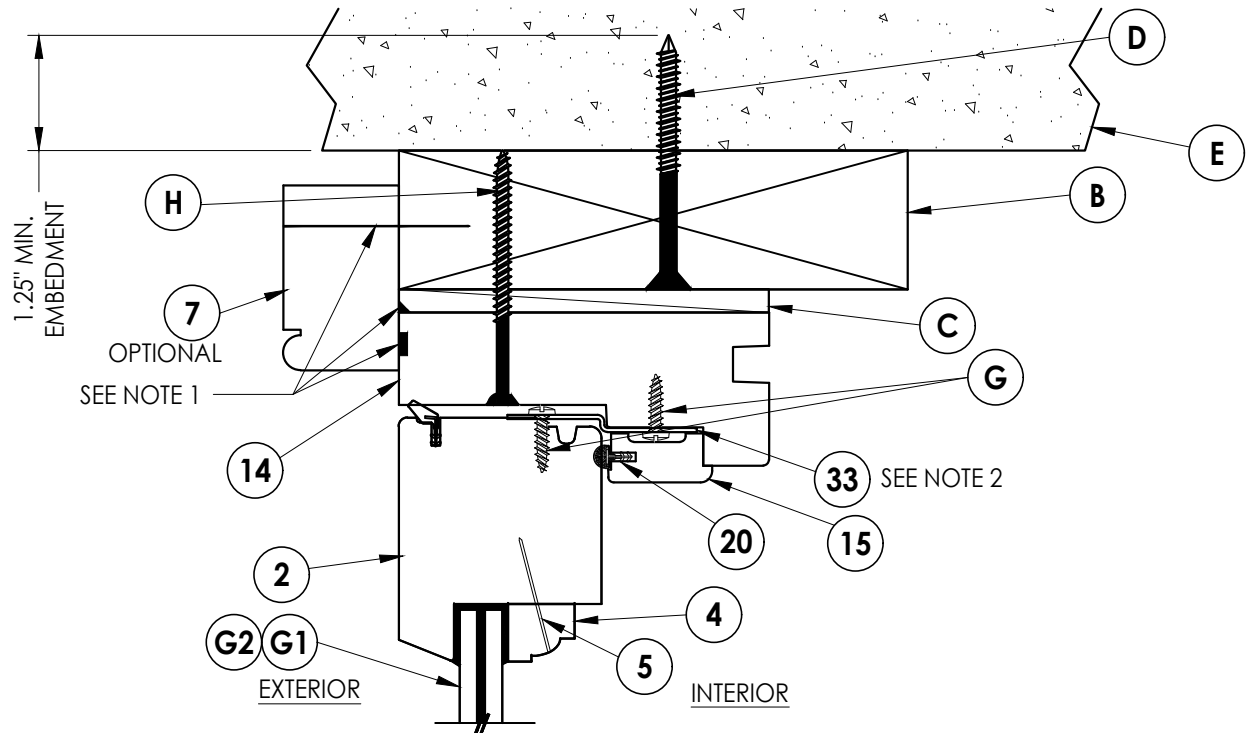
RW

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

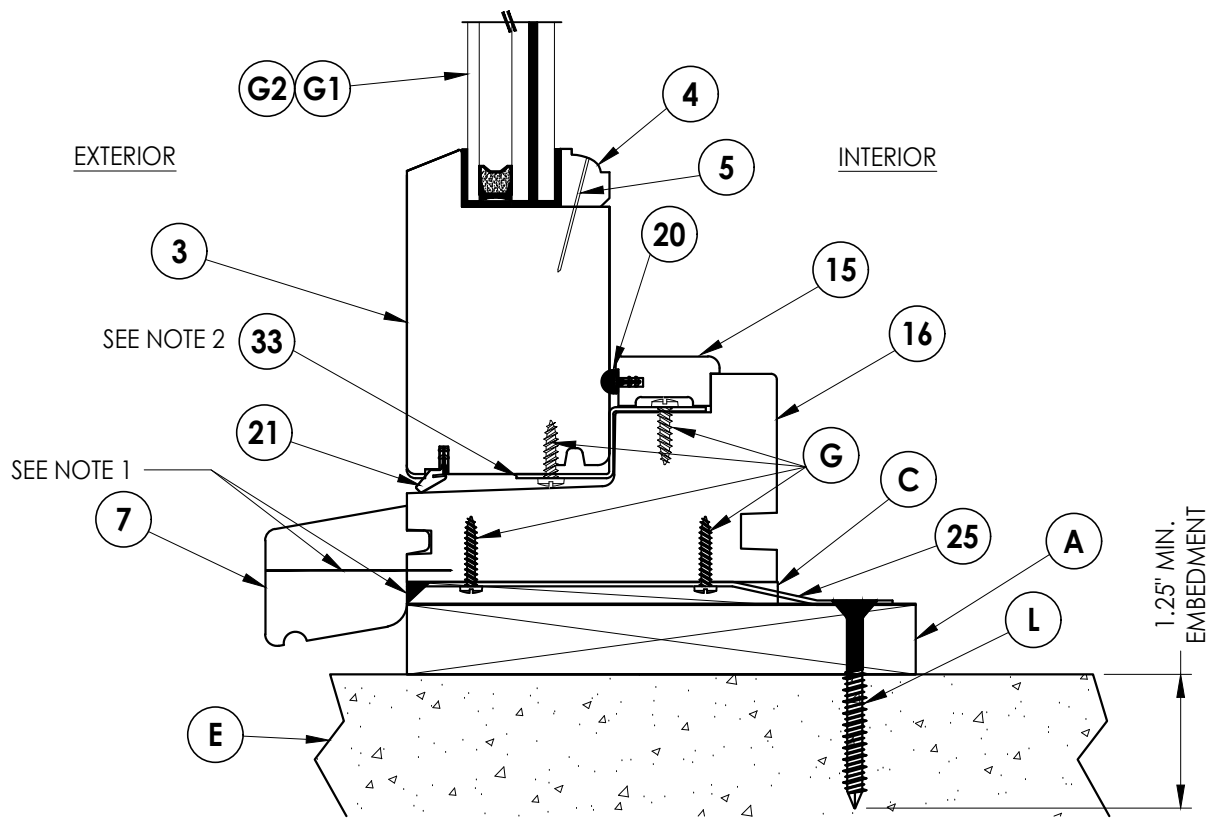


DATE: 5/14/12		DRAWING NO.: FL-15655.1		SHEET 2 OF 7	
SCALE: N.T.S.		CHK. BY: LFS		DWG. BY: JK	
NO.		DATE		REVISIONS	
4	8/30/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	9/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
2	7/07/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
1	08/04/15	UPDATE TO 5TH ED. (2014)	FBC	JK	
FRAME DETAILS					
PART OR ASSEMBLY:					
BRANNEN MILLWORKS					
PRODUCT:					
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409					
R ^W BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813					

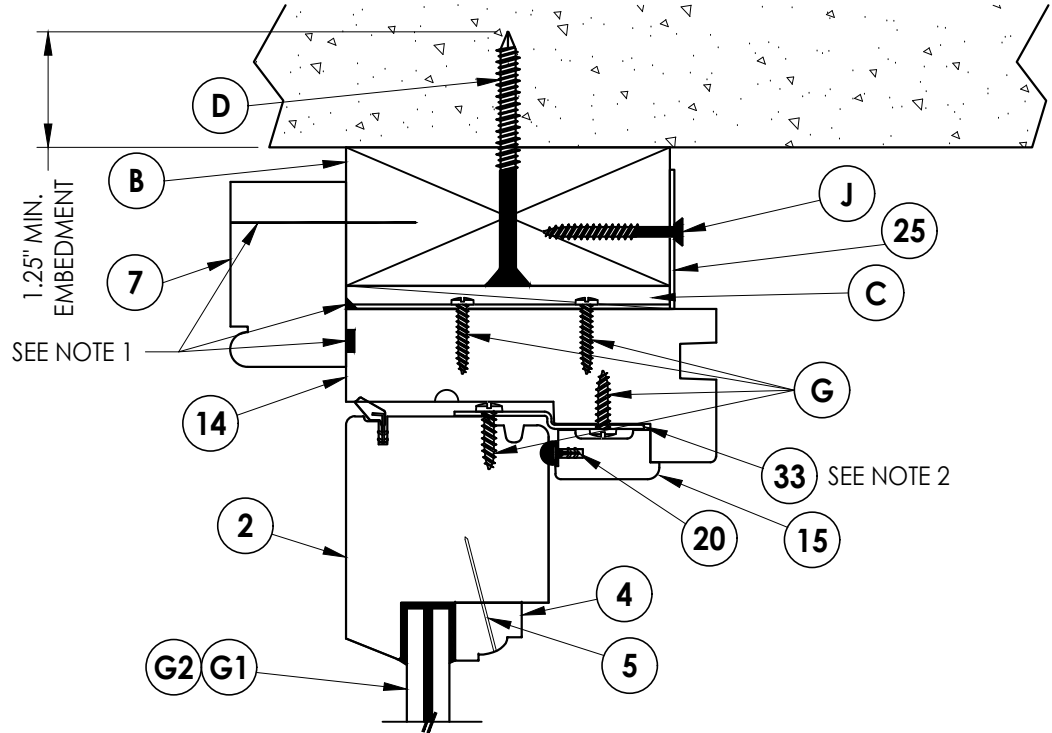
Z:\2023 FBC Drawings\Brannen Millwork\FL-15655 R4 Fixed\FL-15655.1-3.dwg



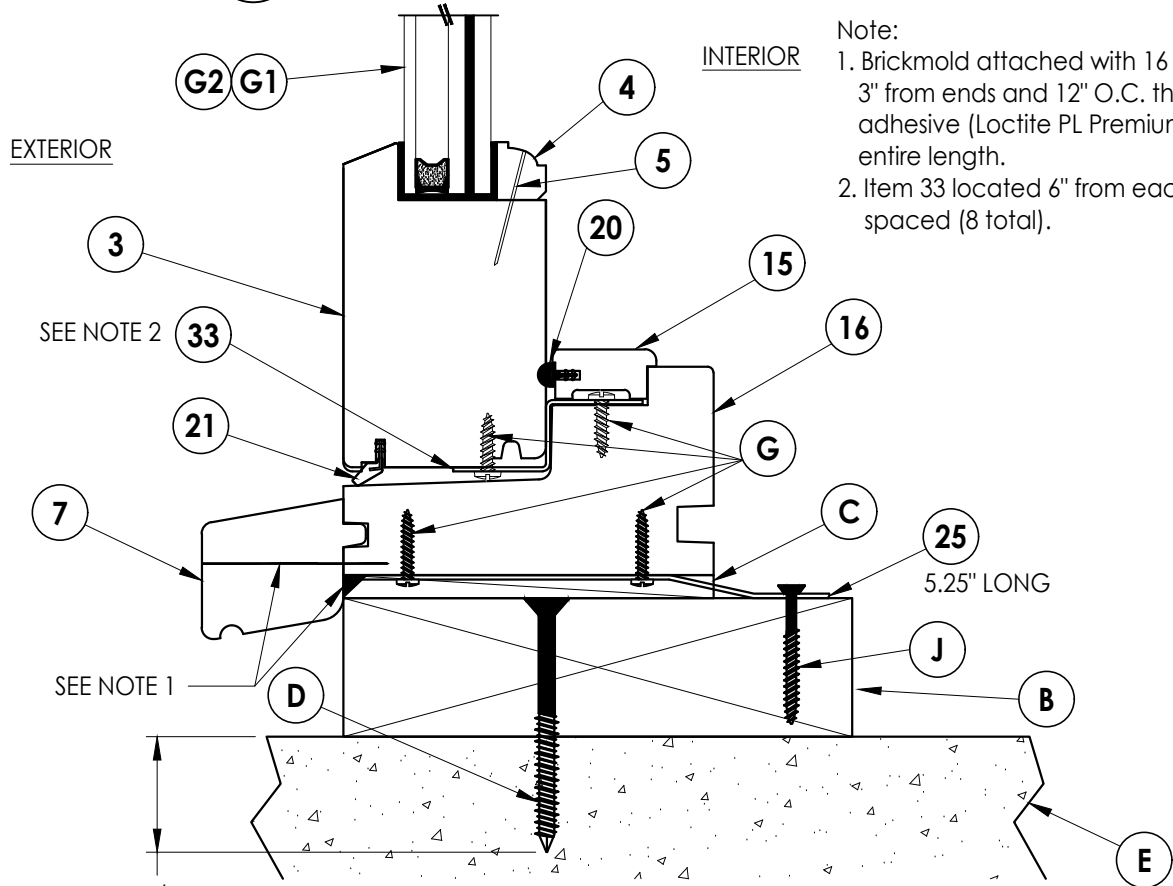
2 **VERTICAL CROSS SECTION**
3 Shown w/ 2x buck (w/ thru the frame anchor)



4 **VERTICAL CROSS SECTION**
3 Shown w/ 1x buck (w/ strap anchor plus brick mold)



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



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

- 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 33 located 6" from each end and 6 more equally spaced (8 total).

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

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS			
		BY	JK	LFS	FBC
1	08/04/15	DATE	JK	LFS	FBC
2	7/07/17	DATE	JK	LFS	FBC
3	9/16/20	DATE	JK	LFS	FBC
4	8/30/23	DATE	JK	LFS	FBC

DATE: 5/14/12

SCALE: N.T.S.

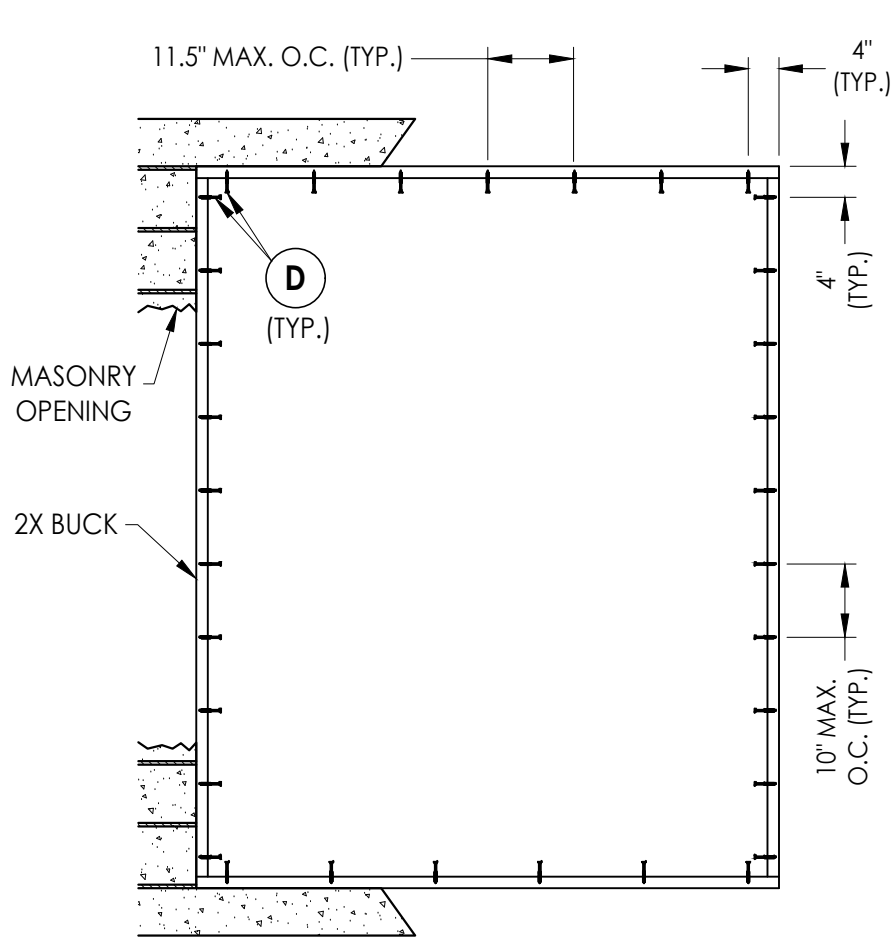
DWG. BY: JK

CHK. BY: LFS

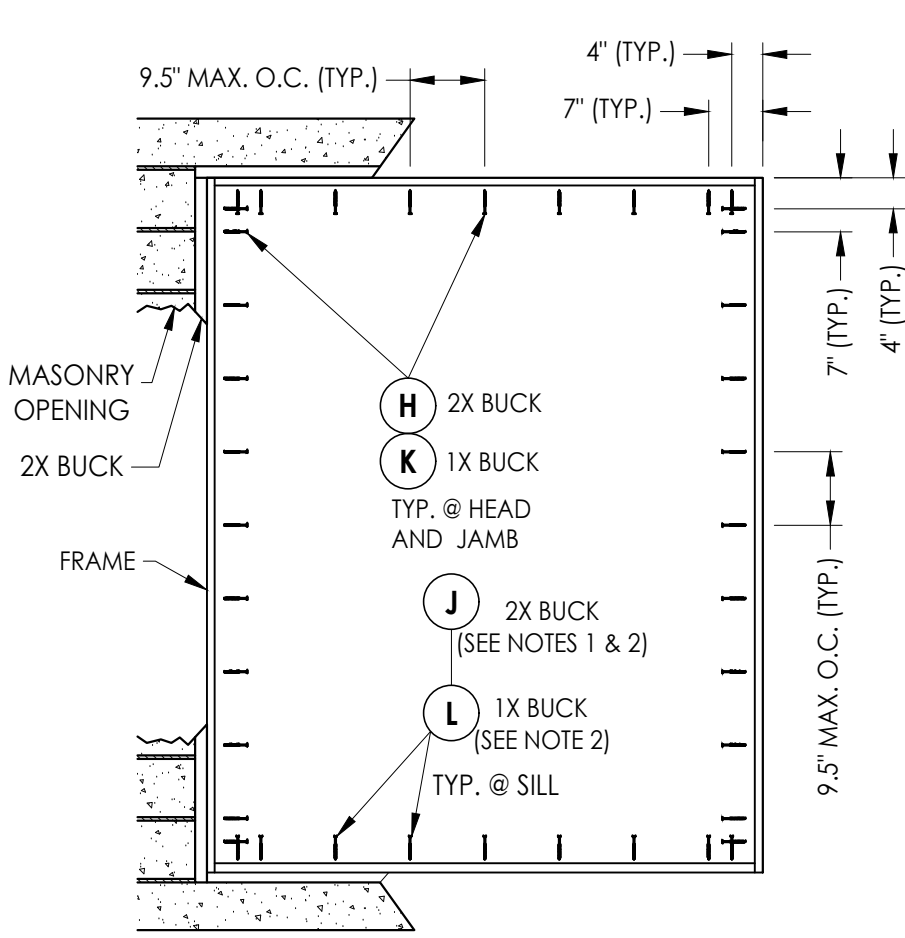
DRAWING NO.: FL-15655.1

SHEET 3 OF 7

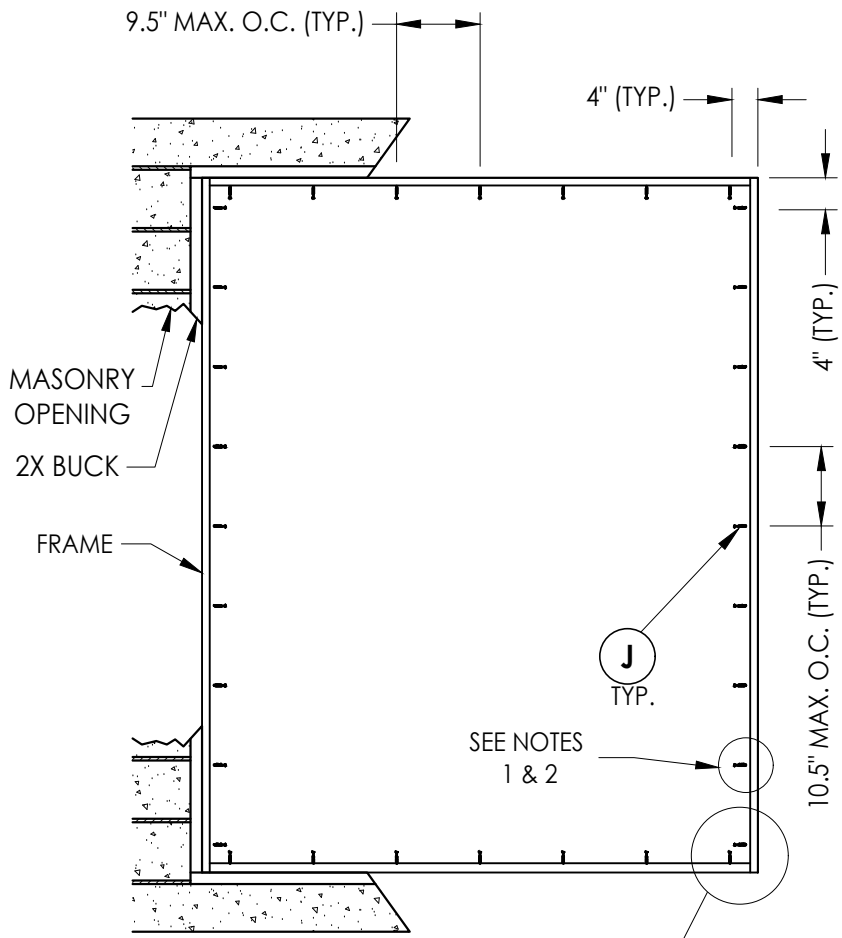
Z:\2023 FBC Drawings\Brannen Millwork\FL-15655 R4 Fixed\FL-15655.1-3.dwg



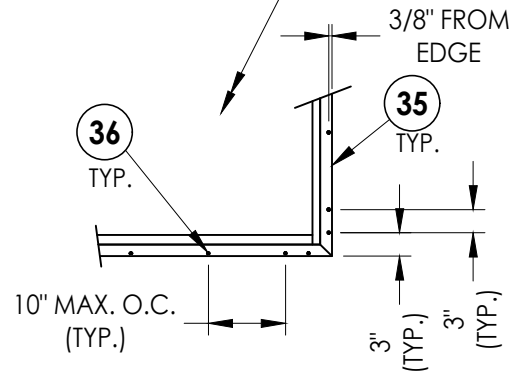
BUCK ANCHORING



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

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 ULTRACON®	1/4"	1-1/4"	2-1/2"	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.

NOTES:

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

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:
BRANNEN MILLWORKS

PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING

NO.	DATE	REVISIONS
4	8/30/23	UPDATE TO 8TH ED. (2023) FBC
3	9/16/20	UPDATE TO 7TH ED. (2020) FBC
2	7/07/17	UPDATE TO 6TH ED. (2017) FBC
1	08/04/15	UPDATE TO 5TH ED. (2014) FBC

DATE: 5/14/12

SCALE: N.T.S.

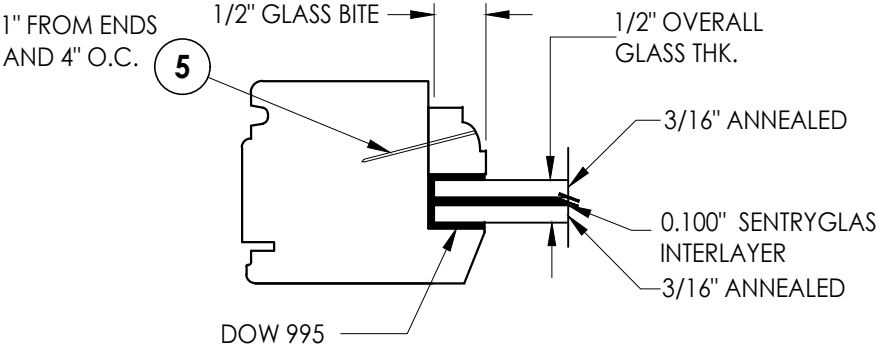
DWG. BY: JK

CHK. BY: LFS

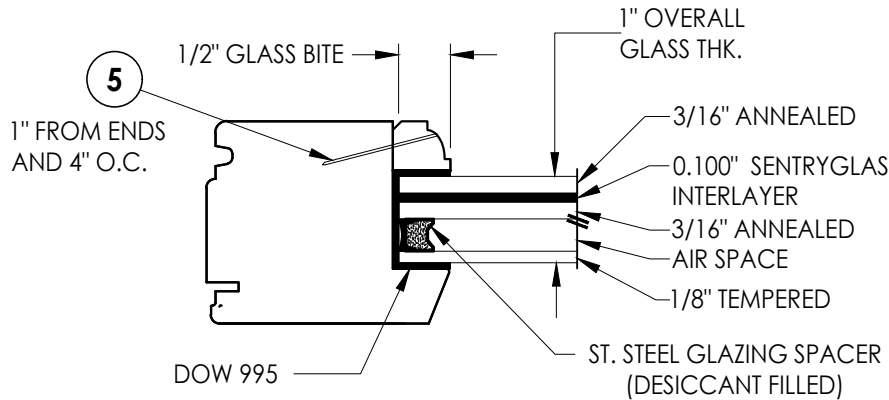
DRAWING NO.: FL-15655.1

SHEET 5 OF 7

Z:\2023 FBC Drawings\Brannen Millwork\FL-15655 R4 Fixed\FL-15655.1-3.dwg

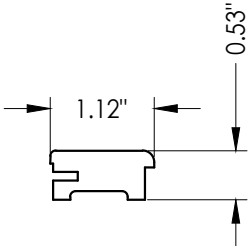


G1 GLAZING DETAIL

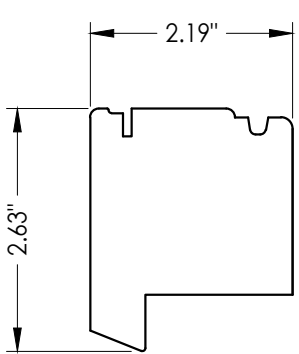


G2 GLAZING DETAIL

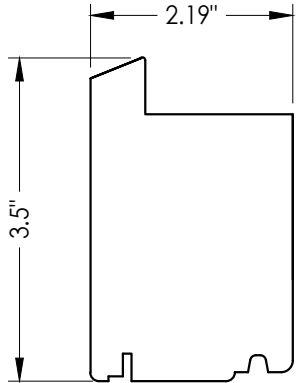
NOTE: GLAZING > 36" WIDE REQUIRES TWO (2) SETTING BLOCKS CONFORMING TO FBC SECTION 2411.3.3.1



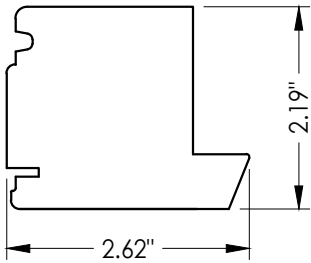
15 FRAME CAP
Fixed



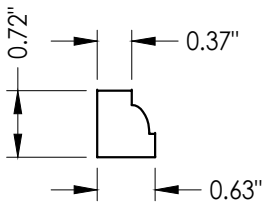
2 TOP RAIL



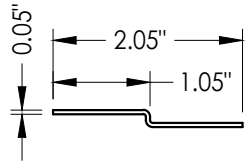
3 BOTTOM RAIL



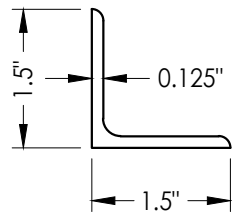
8 STILE



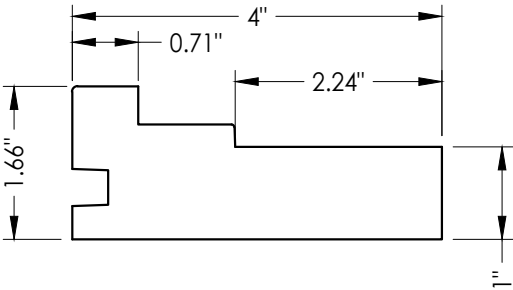
4 GLAZING BEAD



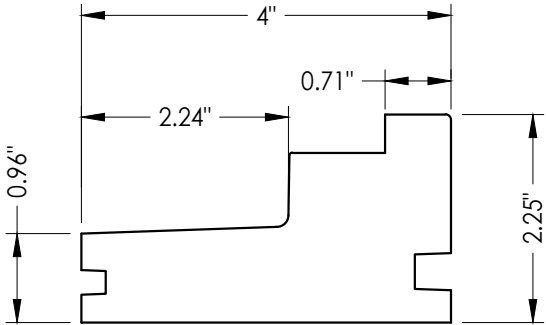
33 WINDOW ANCHOR STRAP



35 ALUMINUM FLANGE ANCHOR



14 FRAME
Fixed



16 SILL
Fixed

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:
BRANNEN MILLWORKS

PART OR ASSEMBLY:
COMPONENTS AND
GLAZING DETAILS

NO.	DATE	REVISIONS			
		DATE	BY	JK	LFS
4	8/30/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	9/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
2	7/07/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
1	08/04/15	UPDATE TO 5TH ED. (2014)	FBC	JK	

DATE: 5/14/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-15655.1

SHEET 6 OF 7

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.55)	WOOD
B	2X BUCK (SG >= 0.55)	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 2-3/4" 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
L	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	1/4" X 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
2	TOP RAIL	WOOD
3	BOTTOM RAIL	WOOD
4	GLAZING BEAD	WOOD
5	0.025" x 1-3/16" BRAD NAIL	STEEL
7	BRICK MOLDING	WOOD
8	STILE	WOOD
14	FRAME HEAD AND JAMB (FIXED)	WOOD
15	FRAME CAP	WOOD
16	FRAME SILL (FIXED)	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
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
44	3/8" X 5" HH LAG BOLT	STEEL

NOTE: WINDOW FRAME WOOD (SG ≥ 0.54)

DATE: 5/14/12		REVISIONS		
SCALE: N.T.S.				
DWG. BY: JK				
CHK. BY: LFS				
DRAWING NO.: FL-15655.1				
SHEET 7 OF 7				
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	7/07/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
1	08/04/15	UPDATE TO 5TH ED. (2014)	FBC	JK
NO.	DATE			BY
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				