

BRANNEN MILLWORK

3379 EAST HWY. 46
REGISTER, GEORGIA 30452

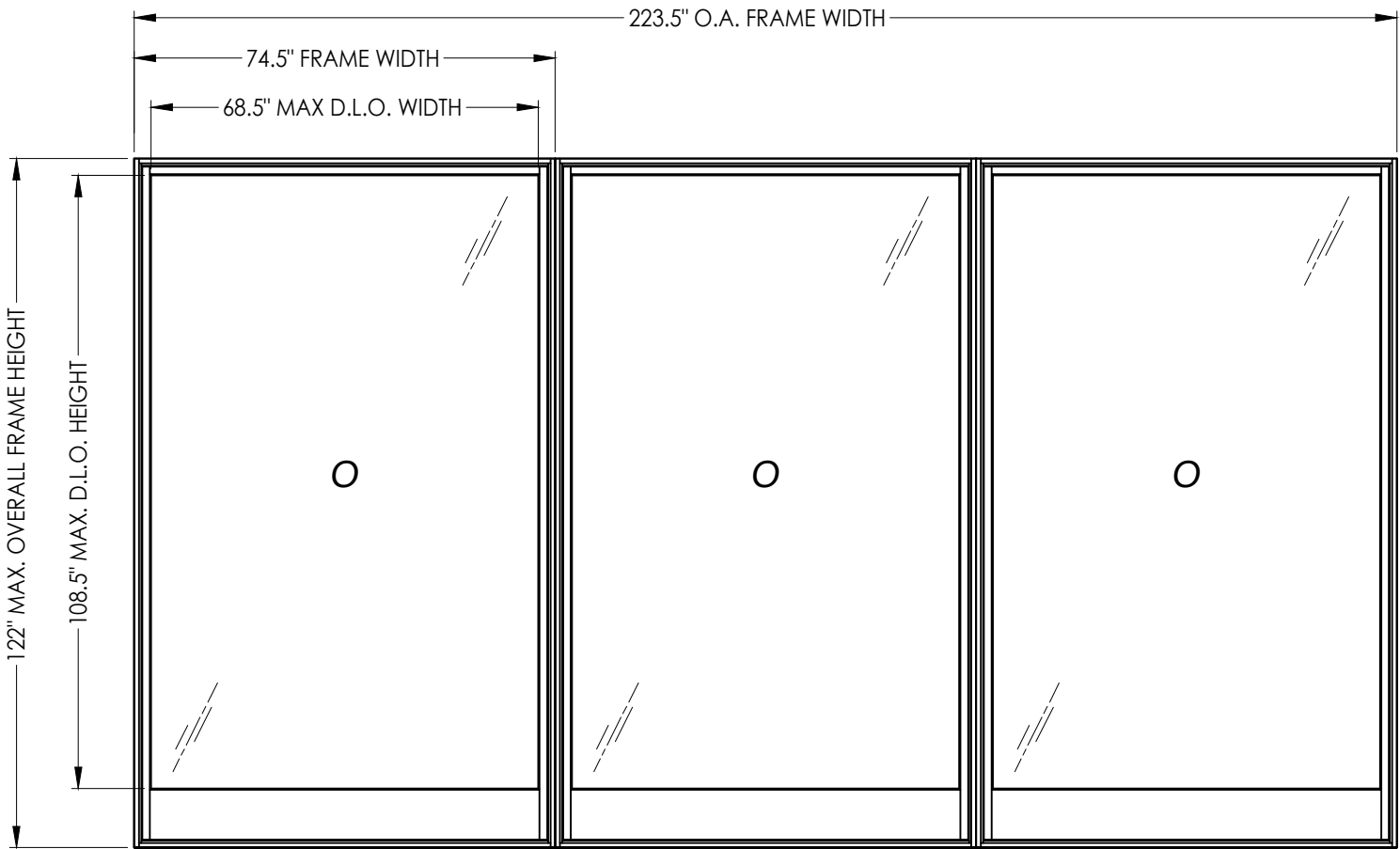
FIXED WINDOWS "IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding 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 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 excludes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2 & R301.2.1.2.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

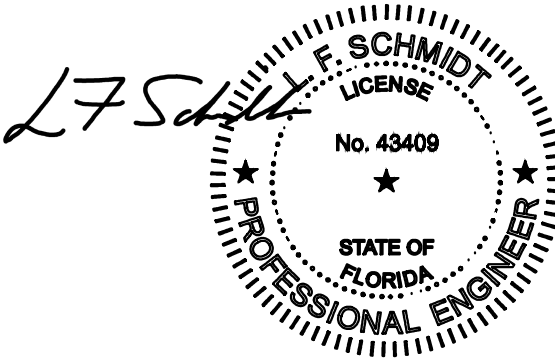
TABLE OF CONTENTS

SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Frame details
3	Vertical cross sections
4	Horizontal cross sections
5	Buck anchoring
6	Frame anchoring
7	Bill of materials, components & glazing details



NOTE: TRIPLE UNIT SHOWN - UNLIMITED UNITS ALLOWED

OVERALL SINGLE FRAME DIMENSION	MAX OVERALL D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
74.5" x 122.0"	68.5" X 108.5"	+55.0	-60.0



Digitally signed by
Lyndon F Schmidt
Date: 2023.10.10
15:46:56 -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

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

PRODUCT:
BRANNEN MILLWORK

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

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

DATE: 08/10/15

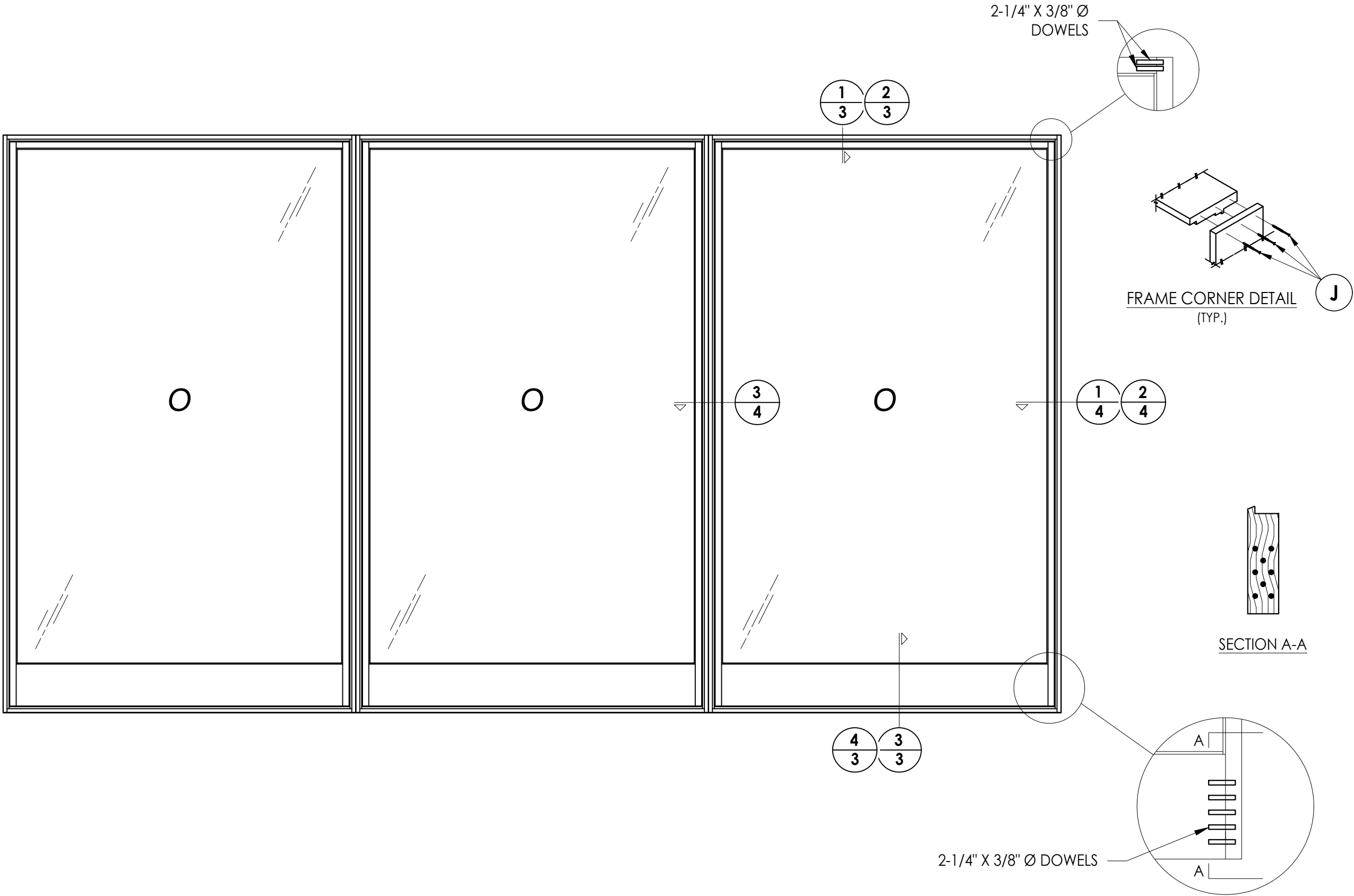
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-15655.5

SHEET 1 OF 7



DATE: 08/10/15	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: FL-15655.5	
SHEET 2	OF 7

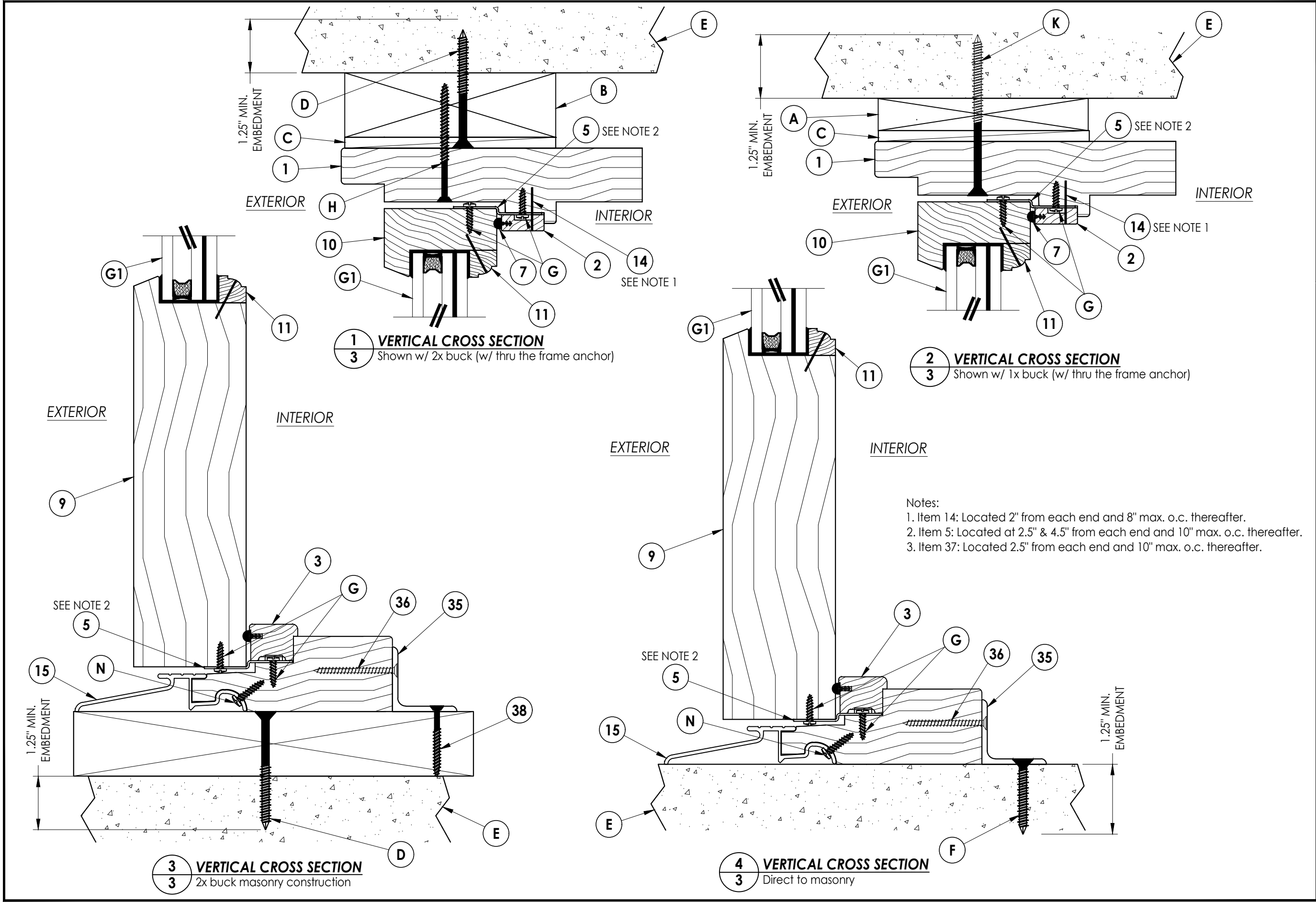
PRODUCT: BRANNEN MILLWORKS	
PART OR ASSEMBLY: FRAME DETAILS	

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

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

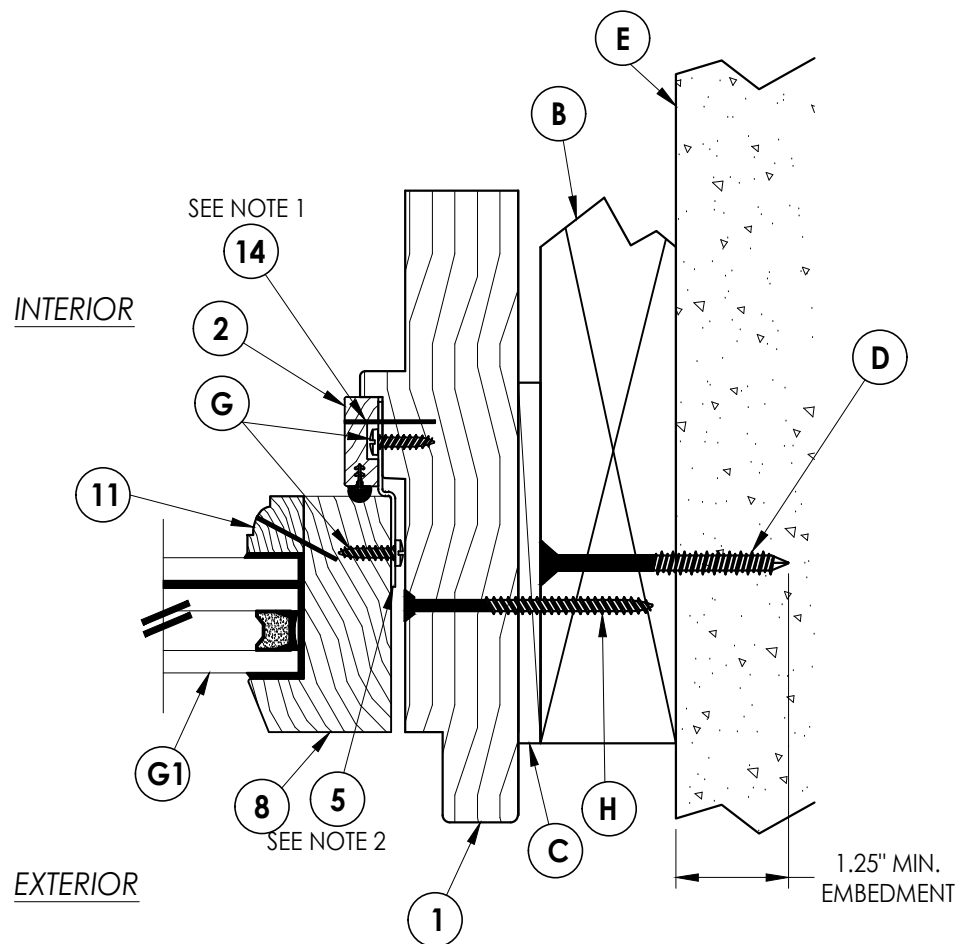
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

Z:\2023 FBC Drawings\Brannen Millwork\FL-15655 R4 Fixed\FL-15655.4-6.dwg

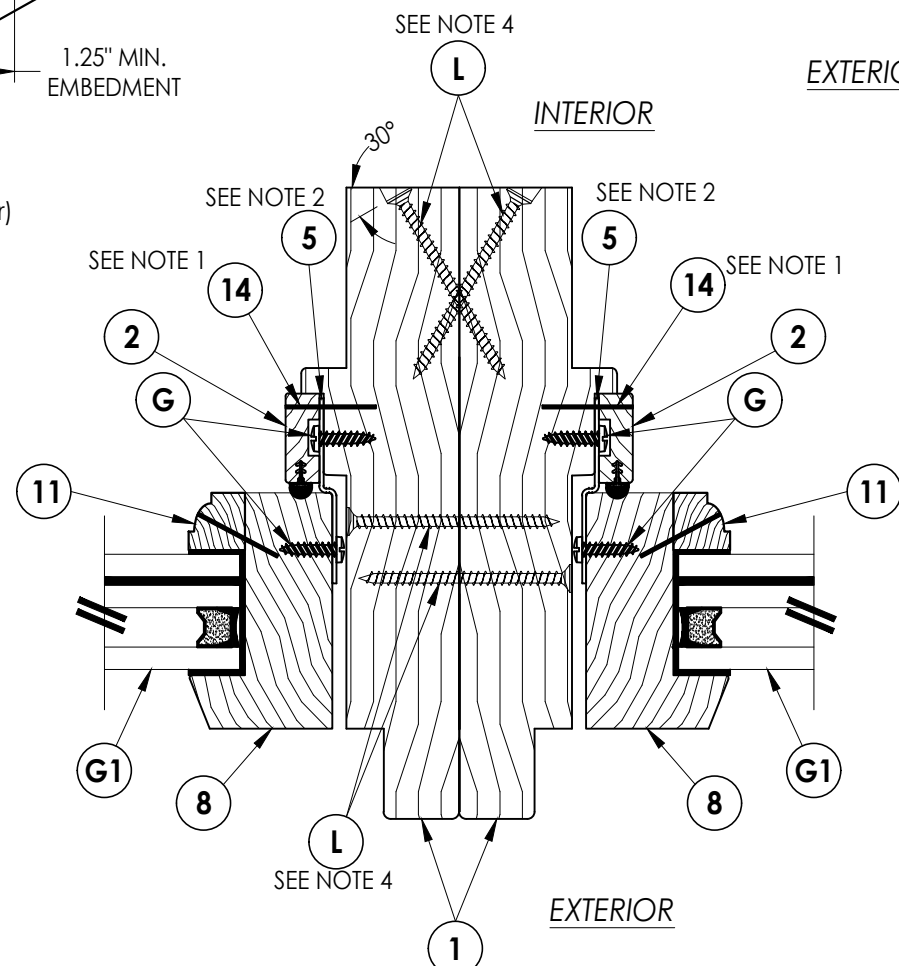


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Vairco, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: BRANNEN MILLWORKS		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	
		LFS	BY
		LFS	
		LFS	
		DATE	
REVISIONS			
3	8/30/23	UPDATE TO 8TH ED. (2023) FBC	
2	9/16/20	UPDATE TO 7TH ED. (2020) FBC	
1	7/10/17	UPDATE TO 6TH ED. (2017) FBC	
DATE: 08/10/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-15655.5			
SHEET 3 OF 7			

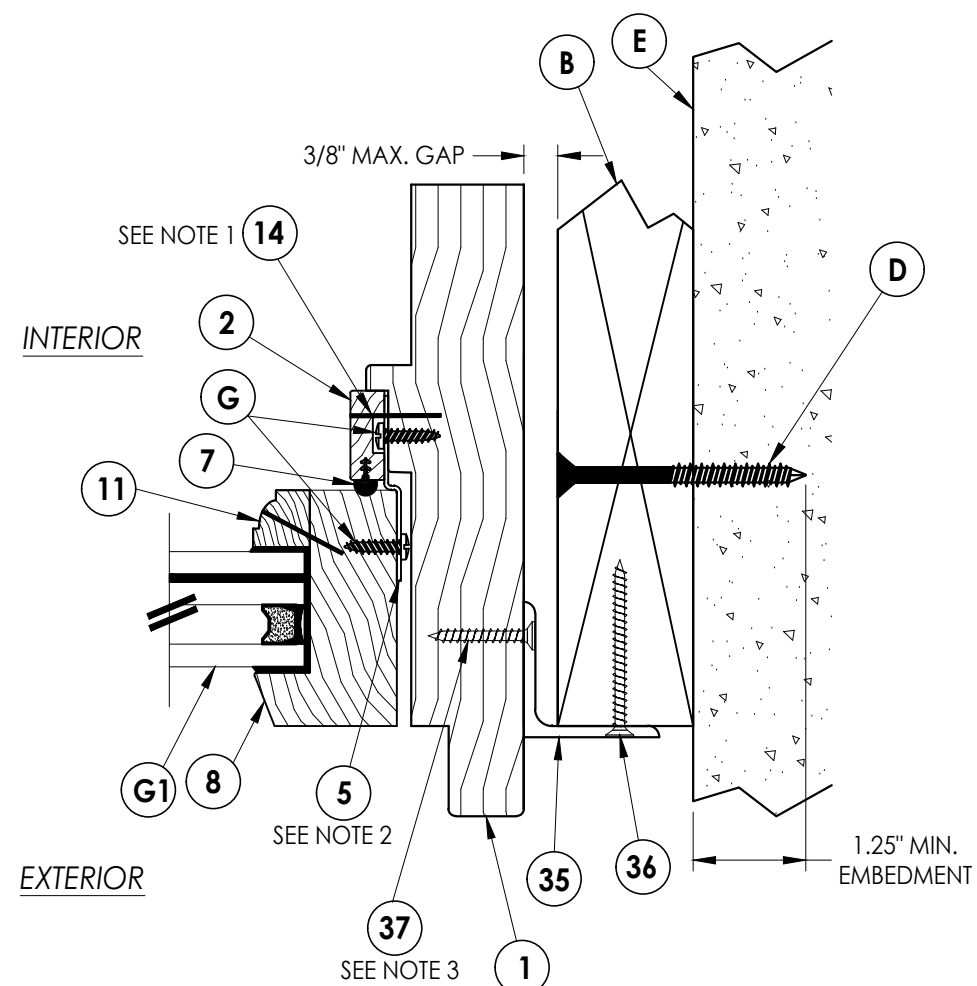
EXTERIOR



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



3 HORIZONTAL CROSS SECTION

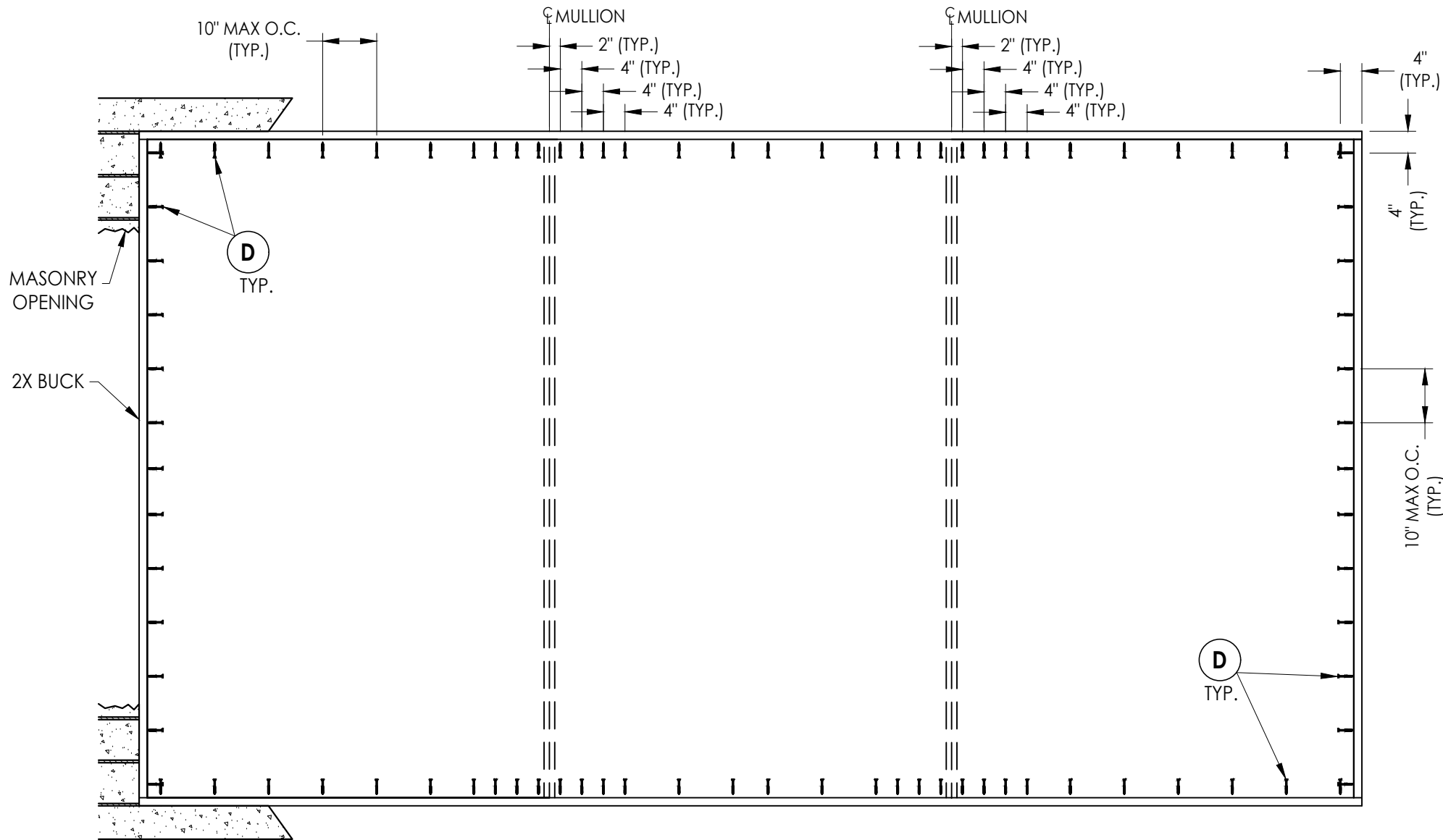


2 **HORIZONTAL CROSS SECTION**
4 Shown w/ alternate alum. flange anchor

- Notes:
1. Item 14: Located 2" from each end & 8" max. o.c. thereafter.
 2. Item 5: Located at 2.5" & 4.5" from each end & 10" max. o.c. thereafter.
 3. Item 37: Located 2.5" from each end & 10" max. o.c. thereafter.
 4. Item L: Located at 3" & 6" from each end & 10" max. o.c. & staggered thereafter.

[illegible]

Z:\2023 FBC Drawings\Brannen Millwork\FL-15655 R4 Fixed\FL-15655.4-6.dwg



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 ULTRAICON®	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.

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

BRANNEN MILLWORKS

PART OR ASSEMBLY:
BUCK ANCHORING

REVISIONS

NO.	DATE	DESCRIPTION
3	8/30/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/16/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	7/10/17	UPDATE TO 6TH ED. (2017) FBC LFS

DATE: 08/10/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

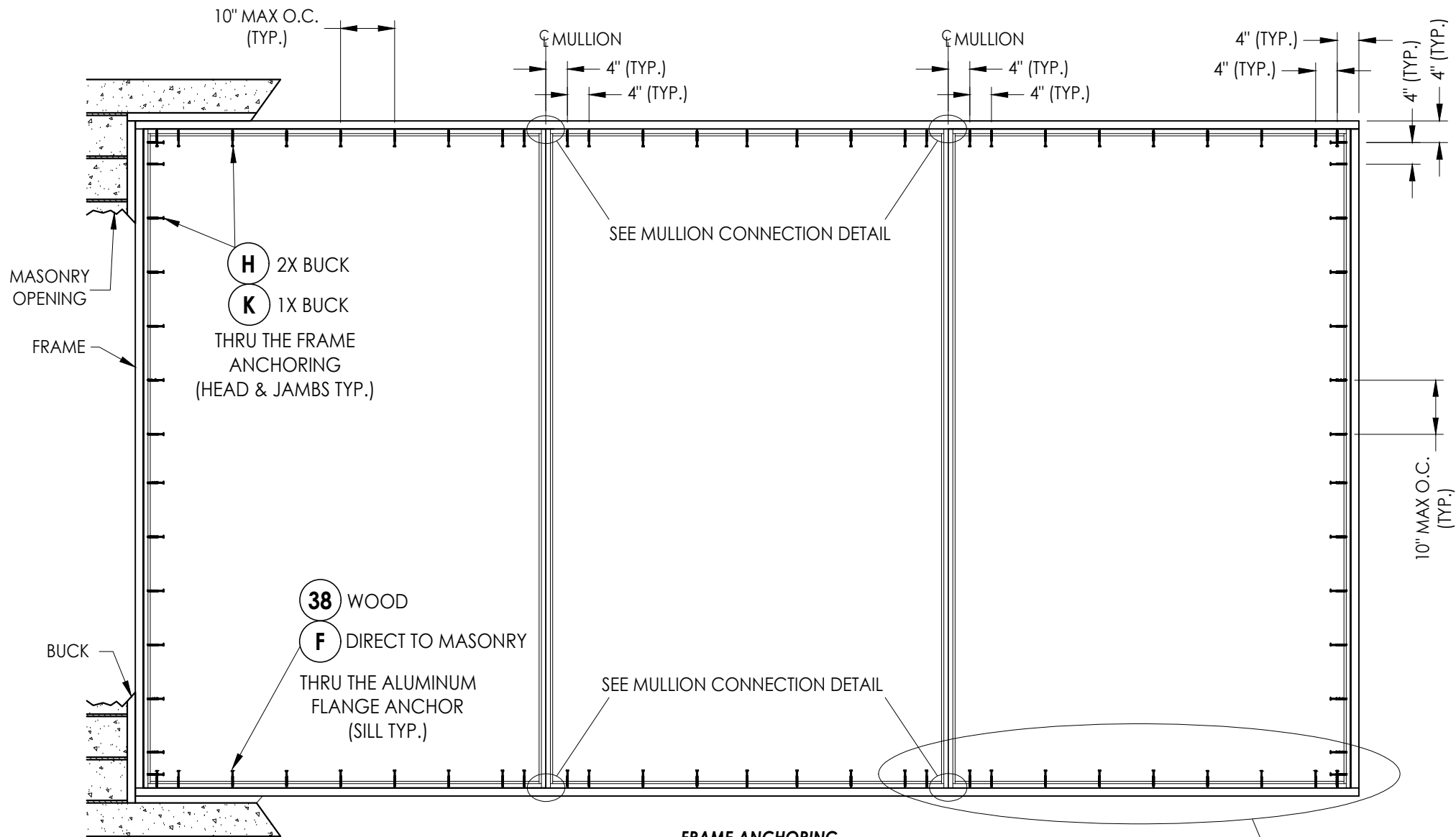
DRAWING NO.: FL-15655.5

SHEET 5 OF 7

© 2015 R.W. BUILDING CONSULTANTS INC.

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-15655.4-6.dwg



FRAME ANCHORING
Masonry buck construction

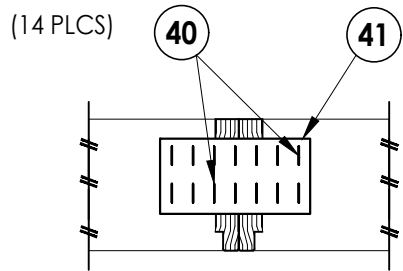
CONCRETE ANCHOR NOTES:

- 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:

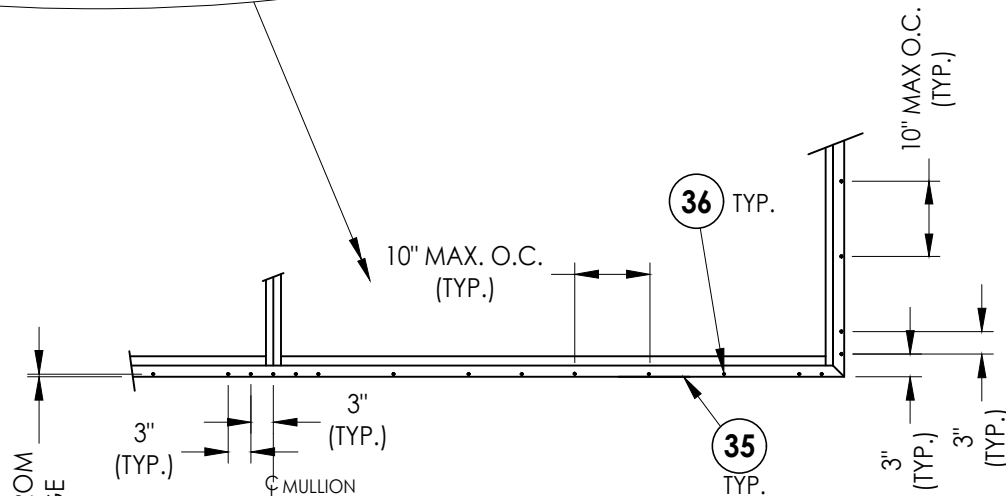
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

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.



MULLION CONNECTION DETAIL



ALTERNATE FRAME ANCHORING
Masonry buck construction
(Aluminum Flange Anchor)

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:

FRAME ANCHORING

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

DATE: 08/10/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

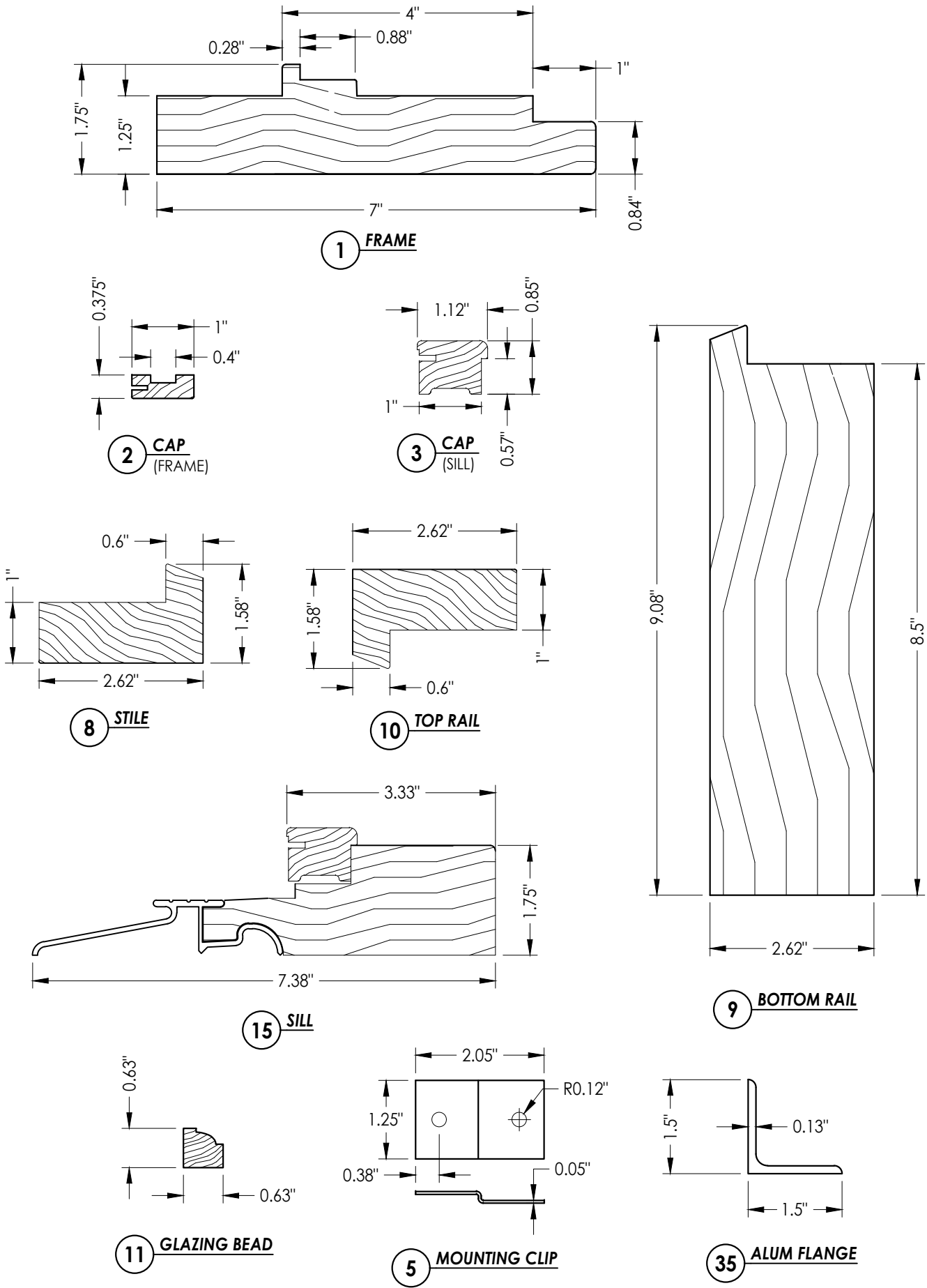
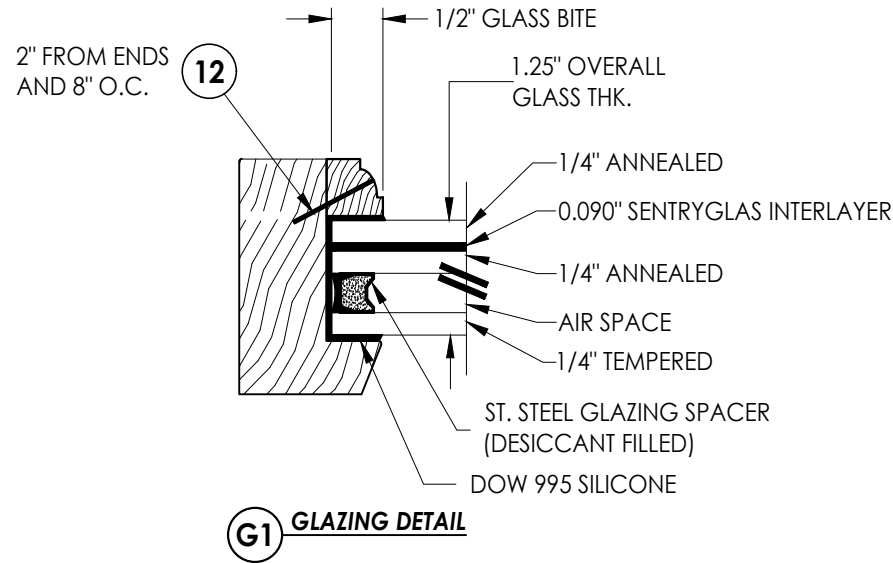
FL-15655.5

SHEET 6 OF 7

Z:\2023 FBC Drawings\Brannen Millwork\FL-15655 R4 Fixed\FL-15655.4-6.dwg

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
F	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
G	#8 X 5/8" PPH SMS	STEEL
H	#10 X 2-3/4" FH DEEP THREAD WOOD SCREW (1-1/4" MIN. EMBEDMENT)	STEEL
K	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
L	#8 X 2-1/4" FH DEEP THREAD WOOD SCREW	STEEL
N	#8 X 3/4" PPH SMS	STEEL
1	FRAME HEAD AND JAMB	WOOD
2	CAP (FRAME)	WOOD
3	CAP (SILL)	WOOD
5	MOUNTING CLIP	STEEL
7	WEATHERSTRIP	VINYL
8	STILE	WOOD
9	BOTTOM RAIL	WOOD
10	TOP RAIL	WOOD
11	GLAZING BEAD	WOOD
12	1" BRAD (23 ga)	WOOD
14	1-3/16" BRAD (23 ga)	STEEL
15	SILL	ALUM/WOOD
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 1-1/4" PFH WOOD SCREW (1-1/8" MIN. EMBEDMENT)	STEEL
38	#8 X 1-3/4" FH WOOD SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
40	16 GA. STAPLE (1" CROWN X 3/4" LEG)	STEEL
41	STEEL SPLICE PLATE 4" X 8" X 0.31" THICK	STEEL

NOTE: WINDOW FRAME WOOD (SG >= 0.54)



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: BILL OF MATERIALS, COMPONENTS & GLAZING DETAILS	
		LFS	BY
		LFS	
		LFS	
		NO.	DATE
		3	8/30/23
		2	9/16/20
		1	7/10/17
DATE: 08/10/15		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-15655.5		SHEET 7 OF 7	