

MILLWORK ARTISANS

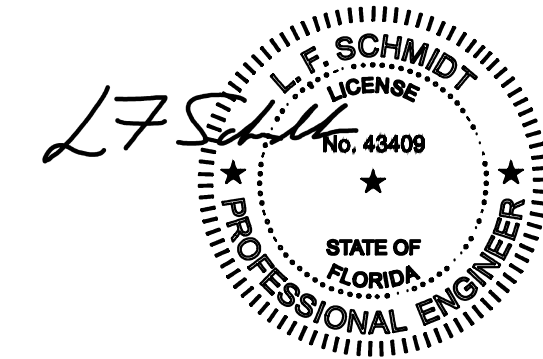
145 KING STREET
CHARLESTON, SC 29401

TWIN FRENCH CASEMENT WINDOW
"European" Frame
INSWING / OUTSWING
"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. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- 5. All window frame wood to be Sapele (Specific Gravity = 0.55).
- 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	Elevation
3	Horizontal cross sections
4	Vertical cross sections
5	Buck and frame anchoring
6	Hardware details
7	Components
8	Bill of materials & glazing details

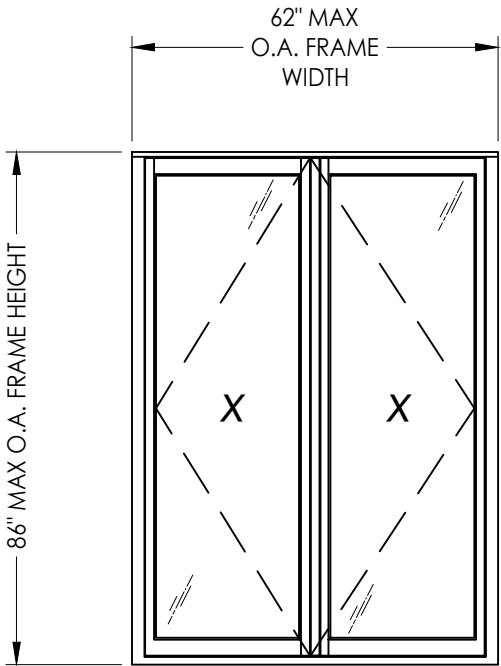


Digitally signed by
Lyndon F Schmidt
Date: 2023.09.14
15:14:08 -04'00'

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	MAX. SASH DIMENSION	MAX. D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
62.0" x 86.0"	30.0" x 84.0"	24.0" x 78.0"	G1, G2	+75.0	-75.0

NOTE: Do not install above 30 ft. elevation in the "HVHZ" with G1 glazing.

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: MILLWORK ARTISANS
CASEMENT WINDOW

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

NO.	DATE	REVISIONS			
		4	3	2	1
	9/14/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
	9/29/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
	10/3/17	UPDATE TO 6TH ED. (2017)	FBC	JK	
	3/03/15	UPDATE TO 5TH ED. (2014)	FBC	JK	

DATE: 12/4/14

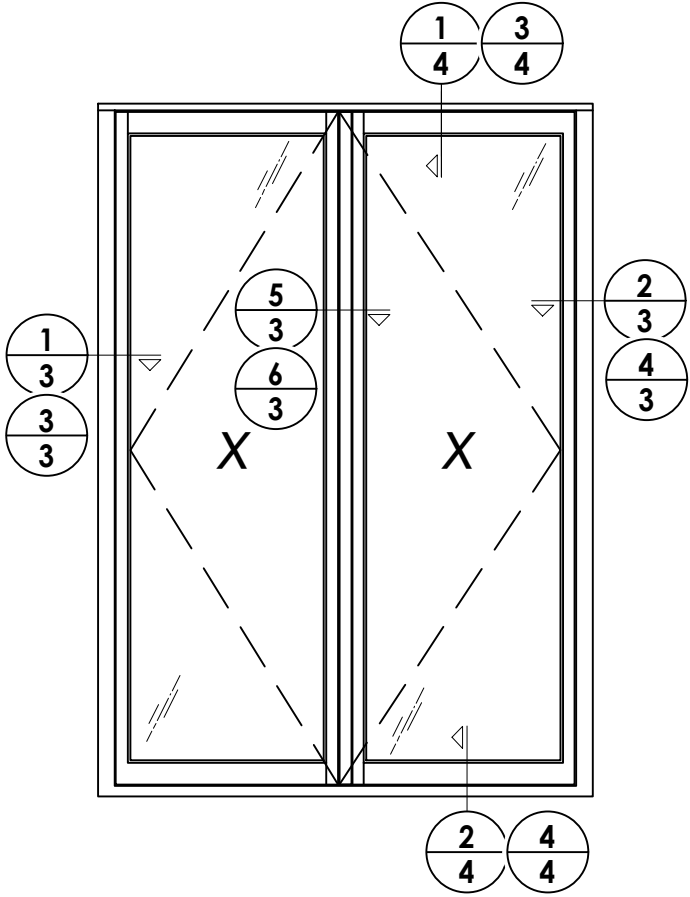
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-17413.5

SHEET 1 OF 8



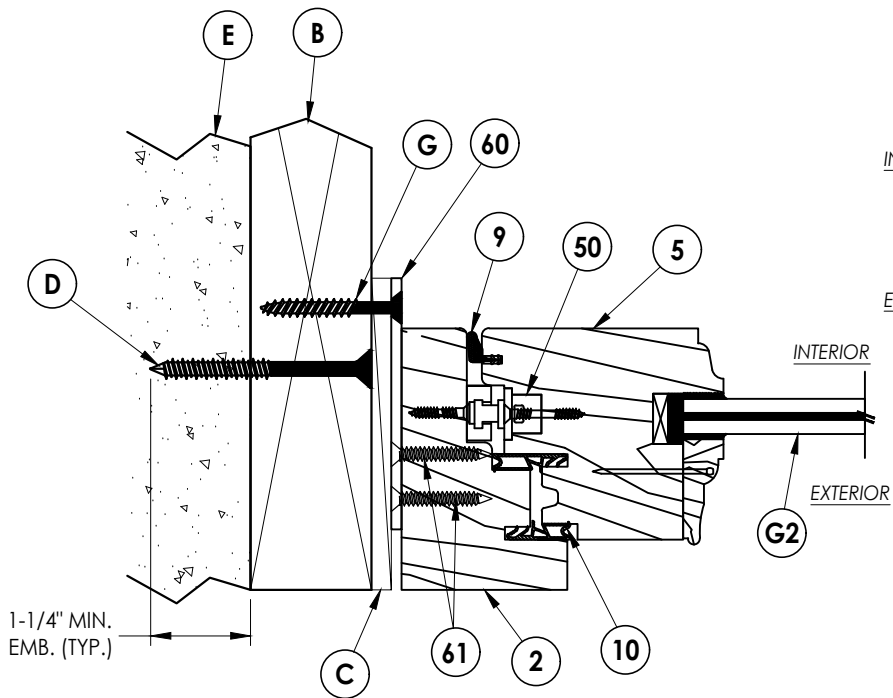
DATE: 12/4/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17413.5
SHEET 2 OF 8

NO.	DATE	REVISIONS
4	9/14/23	UPDATE TO 8TH ED. (2023) FBC
3	9/29/20	UPDATE TO 7TH ED. (2020) FBC
2	10/3/17	UPDATE TO 6TH ED. (2017) FBC
1	3/03/15	UPDATE TO 5TH ED. (2014) FBC
NO.	DATE	BY

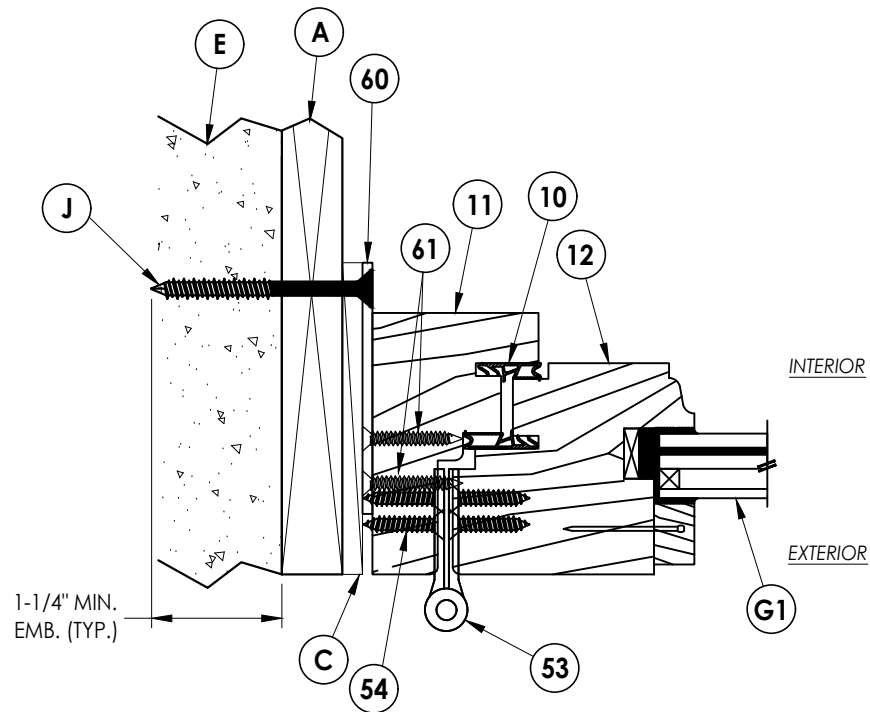
PRODUCT:	MILLWORK ARTISANS CASEMENT WINDOW
PART OR ASSEMBLY:	ELEVATION

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

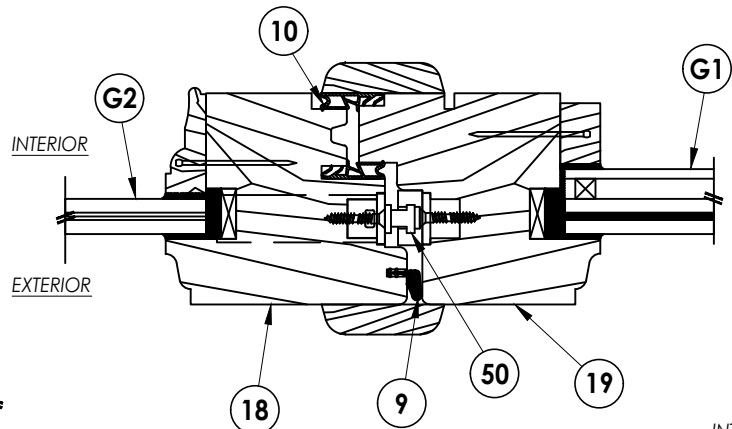
Z:\2023 FBC Drawings\Millwork Artisans, LLC\FL-17413 R4\FL-17413.1-6.dwg



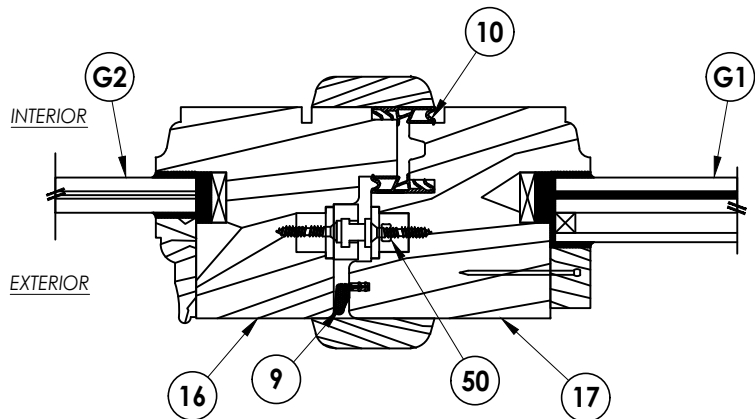
1
3 **HORIZONTAL CROSS SECTION**
Inswing - 2X Buck Construction
Shown w/ Multi-Point Lock (Roto)



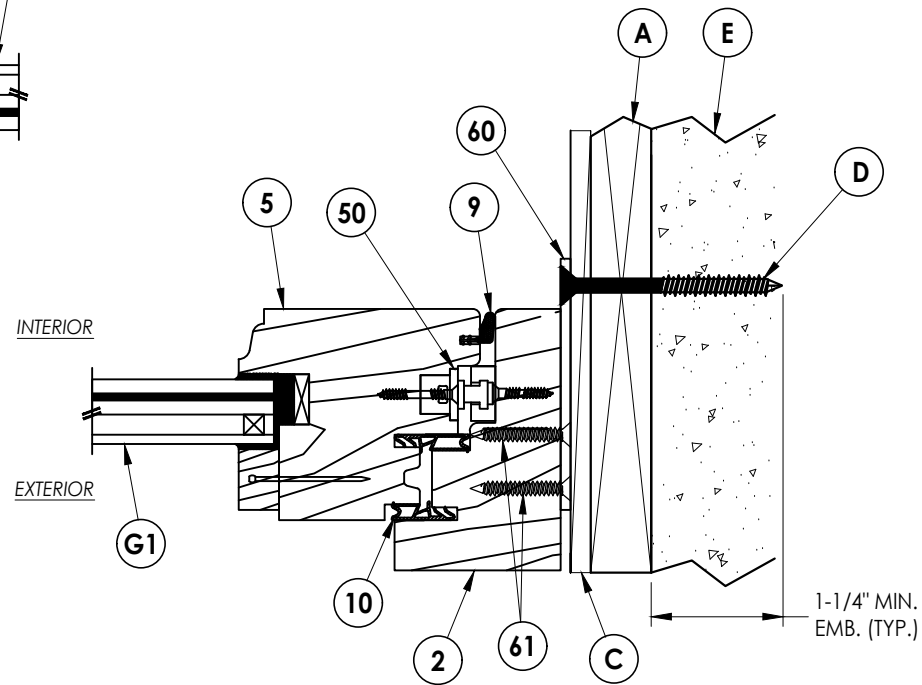
3
3 **HORIZONTAL CROSS SECTION**
Outswing - 1X Buck Construction
Shown w/ Butt Hinge



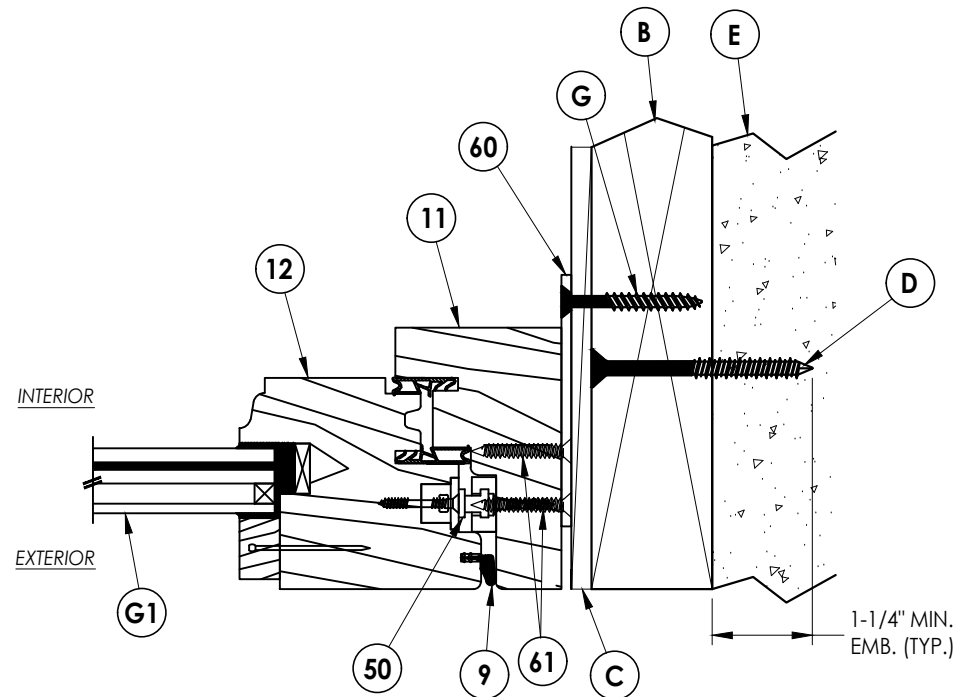
5
3 **HORIZONTAL CROSS SECTION**
Outswing
Shown w/ Multi-Point Lock (Roto)



6
3 **HORIZONTAL CROSS SECTION**
Inswing
Shown w/ Multi-Point Lock (Roto)



2
3 **HORIZONTAL CROSS SECTION**
Inswing - 1X Buck Construction
Shown w/ Multi-Point Lock (Roto)



4
3 **HORIZONTAL CROSS SECTION**
Outswing - 2X Buck Construction
Shown w/ Multi-Point Lock (Roto)

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:
MILLWORK ARTISANS
CASEMENT WINDOW

PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

		REVISONS	
NO.	DATE	BY	
4	9/14/23	UPDATE TO 8TH ED. (2023)	FBC LFS
3	9/29/20	UPDATE TO 7TH ED. (2020)	FBC LFS
2	10/3/17	UPDATE TO 6TH ED. (2017)	FBC JK
1	3/03/15	UPDATE TO 5TH ED. (2014)	FBC JK

DATE: 12/4/14

SCALE: N.T.S.

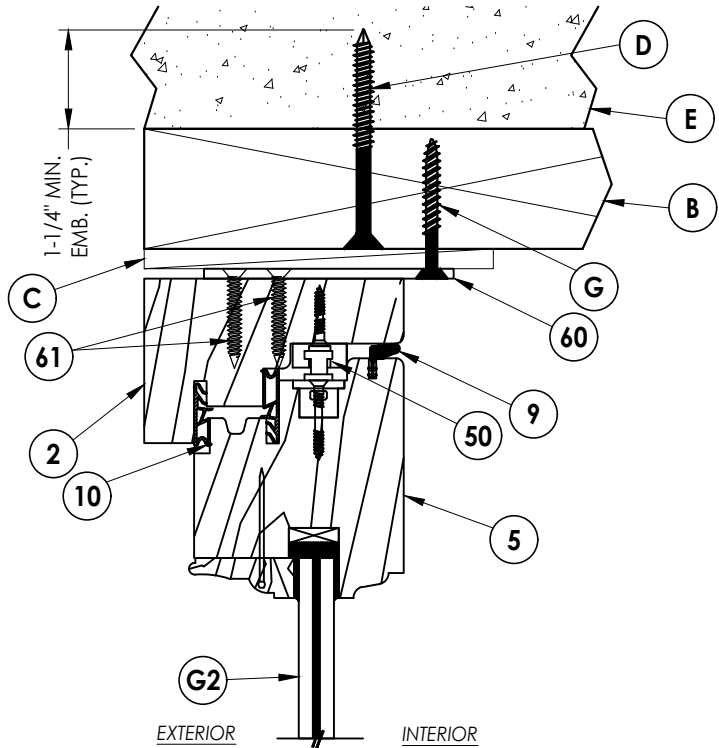
DWG. BY: JK

CHK. BY: LFS

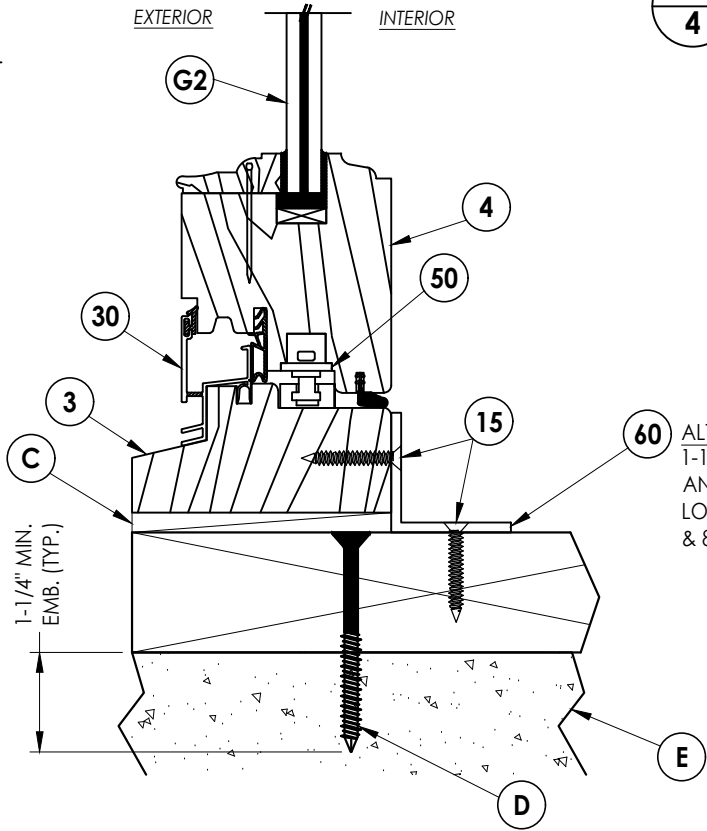
DRAWING NO.:

FL-17413.5

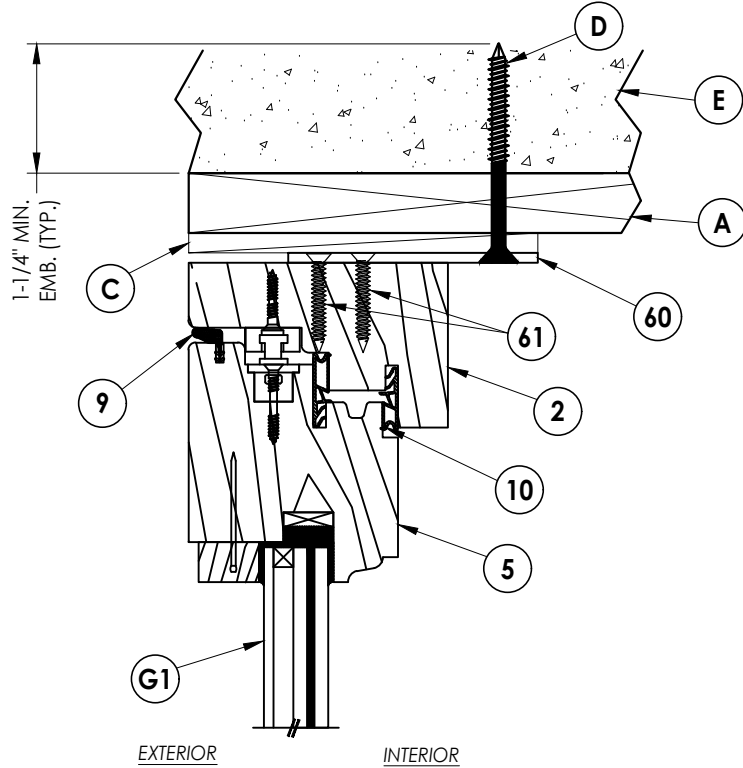
SHEET 3 OF 8



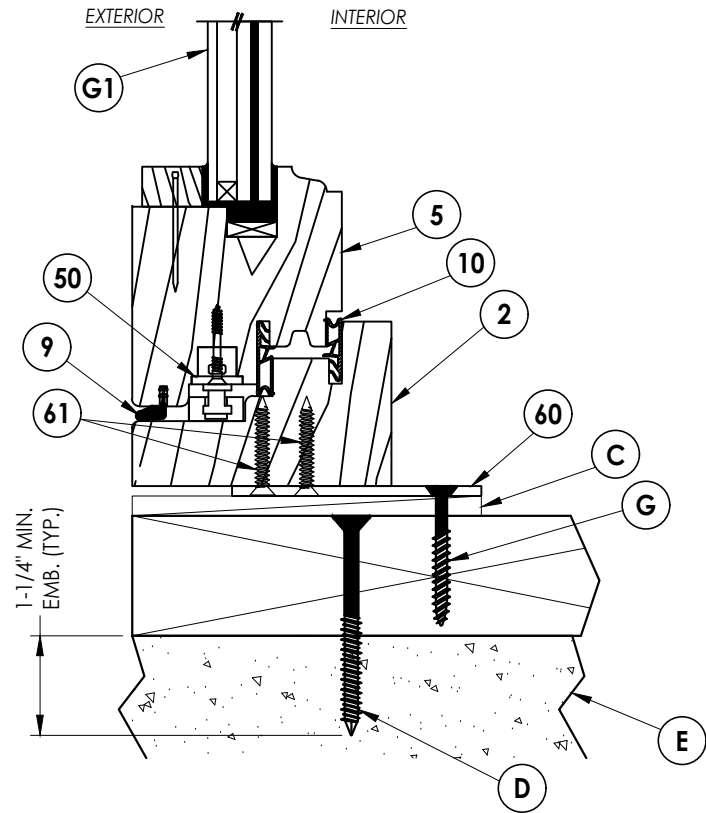
1
4 **VERTICAL CROSS SECTION**
Inswing - 2X Buck Construction
Shown w/ Multi-Point Lock (Roto)



2
4 **VERTICAL CROSS SECTION**
Inswing - 2X Buck Construction
Shown w/ Multi-Point Lock (Roto)



3
4 **VERTICAL CROSS SECTION**
Outswing - 2X Buck Construction
Shown w/ Multi-Point Lock (Roto)



4
4 **VERTICAL CROSS SECTION**
Outswing - 2X Buck Construction
Shown w/ Multi-Point Lock (Roto)

60 ALTERNATE ANCHOR BRACKET @ SILL
1-1/2" X 1-1/2" X FULL LENGTH
ANGLE ATTACHED w/ SCREWS
LOCATED 4" FROM EACH END
& 8" O.C. THEREAFTER.

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

PRODUCT:
MILLWORK ARTISANS
CASEMENT WINDOW

NO.	DATE	REVISIONS			
		BY	JK	LFS	FBC
4	9/14/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
3	9/29/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
2	10/3/17	UPDATE TO 6TH ED.	(2017)	FBC	JK
1	3/03/15	UPDATE TO 5TH ED.	(2014)	FBC	JK

DATE: 12/4/14

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

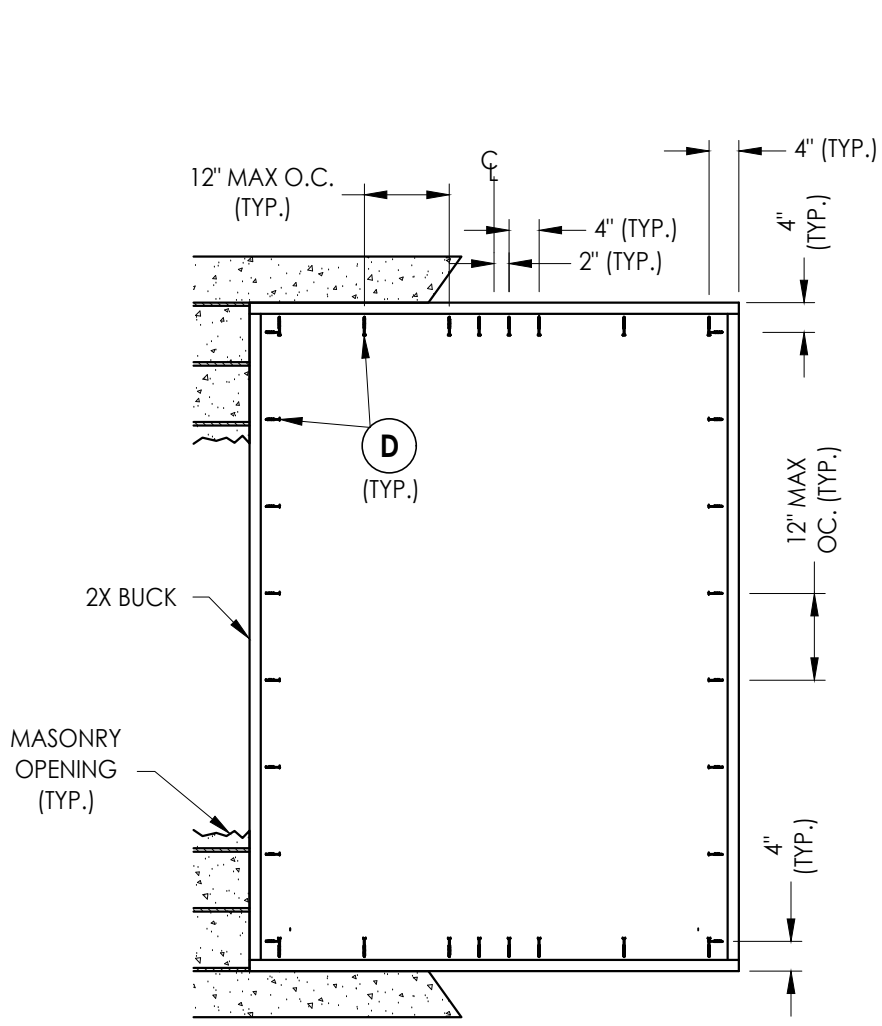
DRAWING NO.:

FL-17413.5

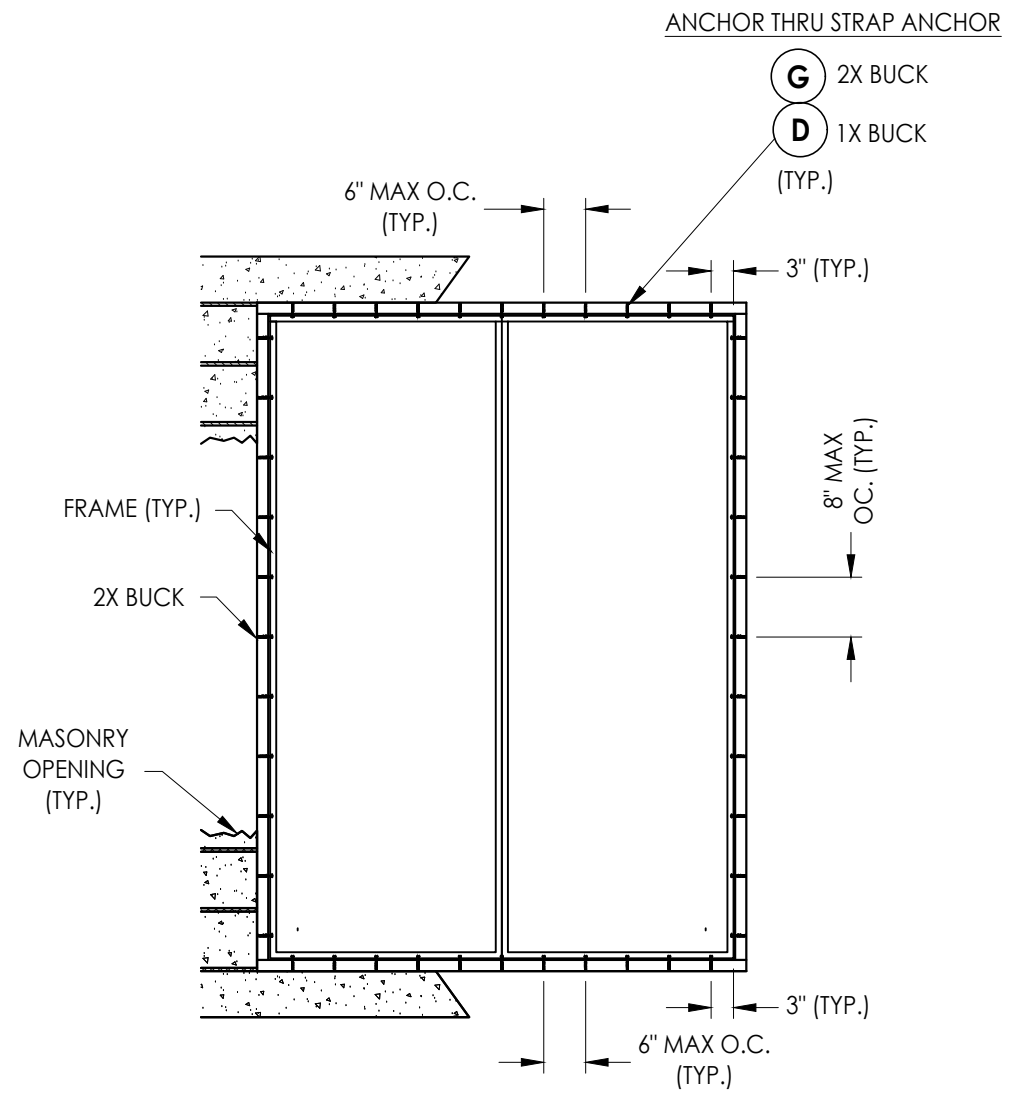
SHEET 4 OF 8

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

Z:\2023 FBC Drawings\Millwork Artisans, LLC\FL-17413 R4\FL-17413.1-6.dwg



BUCK ANCHORING
Masonry construction



FRAME 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 BUILDEX TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	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.

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

PRODUCT:
MILLWORK ARTISANS
CASEMENT WINDOW

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING

					REVISIONS	
					NO.	DATE
	4	9/14/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
	3	9/29/20	UPDATE TO 7TH ED. (2020)	FBC	JK	
	2	10/3/17	UPDATE TO 6TH ED. (2017)	FBC	JK	
	1	3/03/15	UPDATE TO 5TH ED. (2014)	FBC	JK	

DATE: 12/4/14

SCALE: N.T.S.

DWG. BY: JK

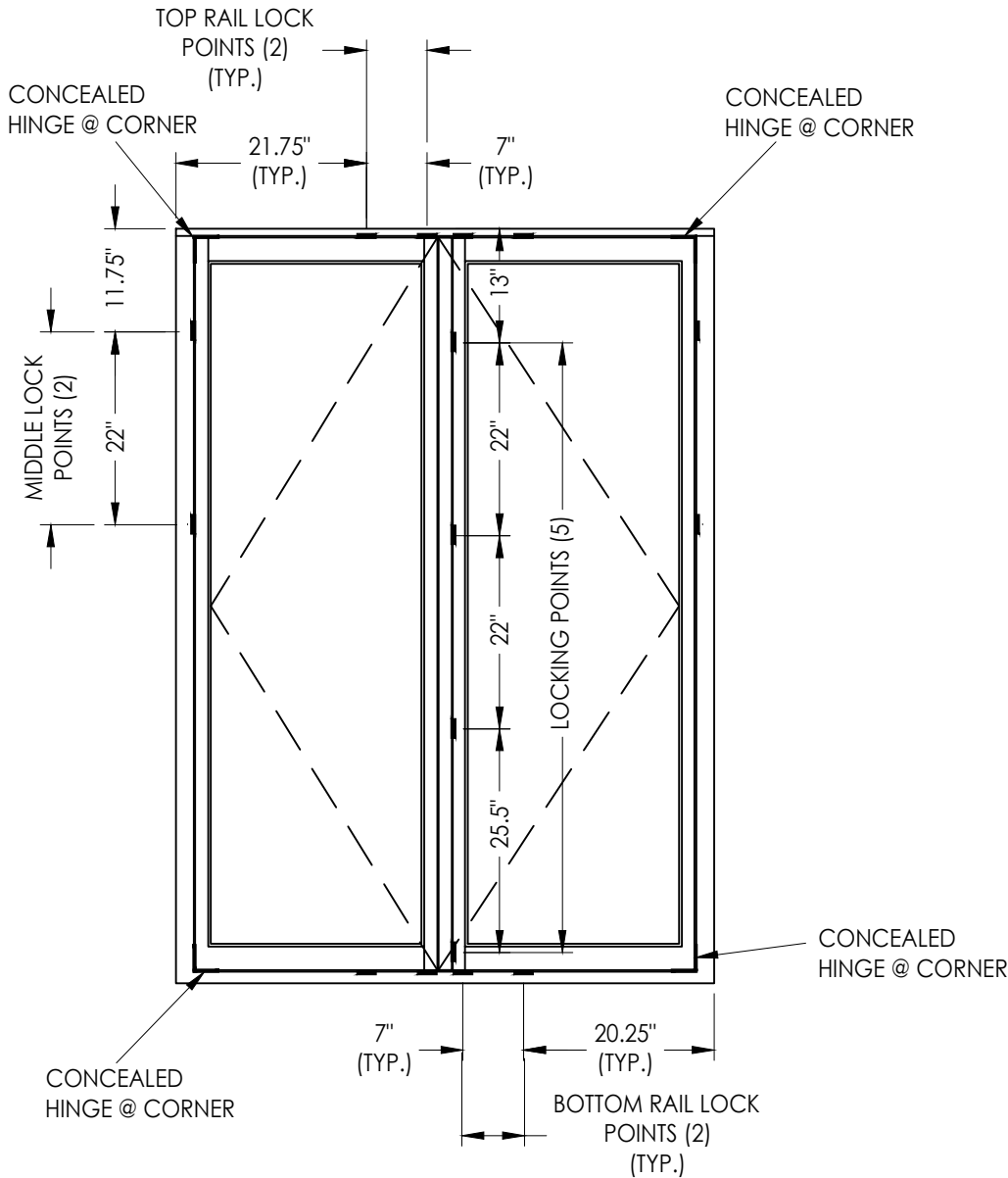
CHK. BY: LFS

DRAWING NO.:

FL-17413.5

SHEET 5 OF 8

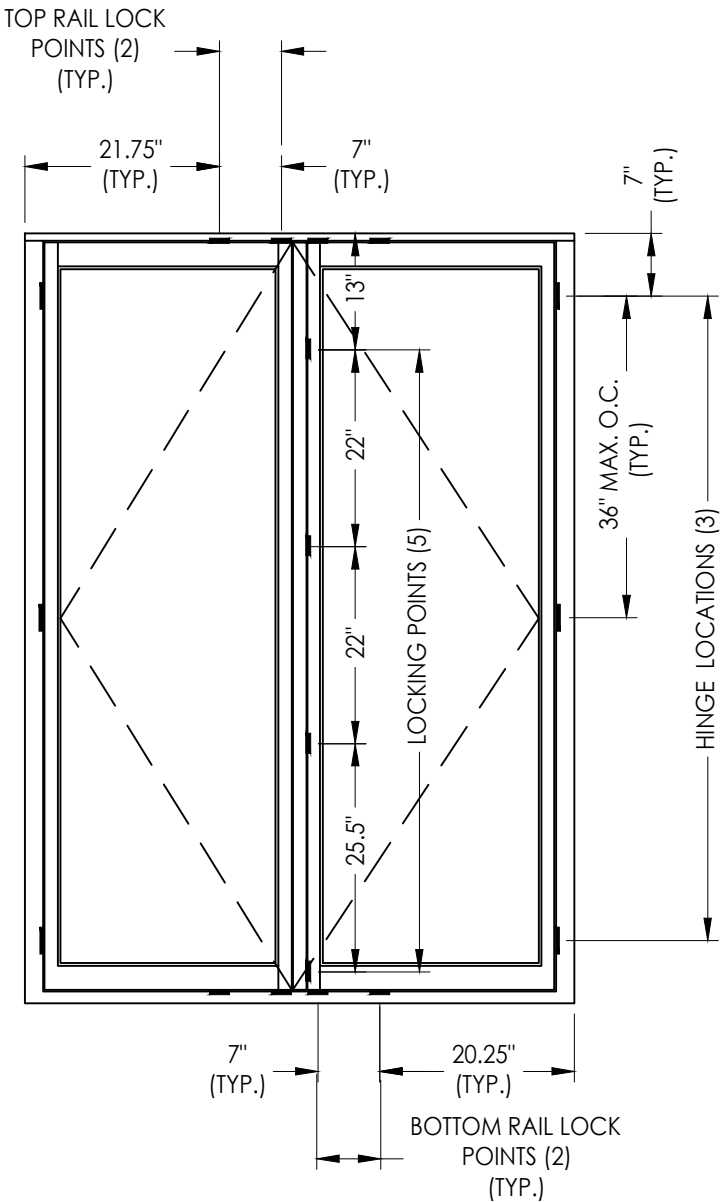
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



HARDWARE

MULTI-POINT LOCK: ROTO
CONCEALED HINGES: GU CONTURA SERIES

Lock Strike Requirements (Lock Stile)	
MAX. SASH HEIGHT	LOCKING POINTS
84"	4
59"	3
24"	2



HARDWARE

MULTI-POINT LOCK: ROTO
HINGES: SOSS #212 CONCEALED OR BUTT 3.5" x 3.5" S.S.

Lock Strike Requirements (Lock Stile)	
MAX. SASH HEIGHT	LOCKING POINTS
84"	4
59"	3
24"	2

Hinge Requirements (Hinge Stile)	
MAX. SASH HEIGHT	HINGE QUANTITY
84"	3
48"	2

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: MILLWORK ARTISANS
CASEMENT WINDOW

PART OR ASSEMBLY:
HARDWARE DETAILS

NO.	DATE	REVISIONS
4	9/14/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	9/29/20	UPDATE TO 7TH ED. (2020) FBC LFS
2	10/3/17	UPDATE TO 6TH ED. (2017) FBC JK
1	3/03/15	UPDATE TO 5TH ED. (2014) FBC JK

DATE: 12/4/14

SCALE: N.T.S.

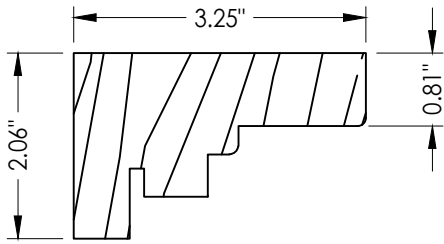
DWG. BY: JK

CHK. BY: LFS

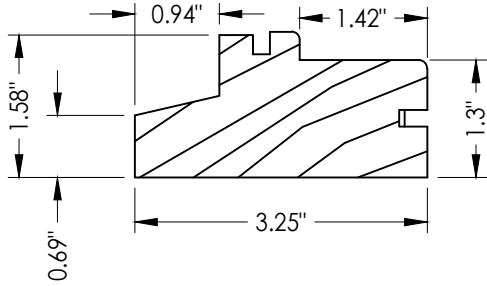
DRAWING NO.:
FL-17413.5

SHEET 6 OF 8

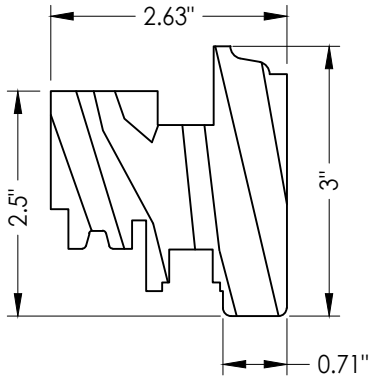
Z:\2023 FBC Drawings\Millwork Artisans, LLC\FL-17413 R4\FL-17413.1-6.dwg



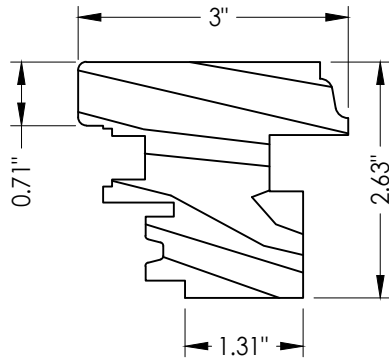
2 EUROPEAN FRAME (PROJECT IN)



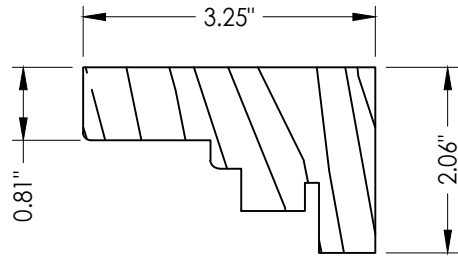
3 EUROPEAN FRAME SILL (PROJECT IN)



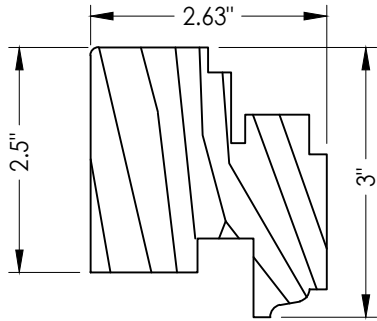
4 SASH (PROJECT IN)
Interior Glazing Bead



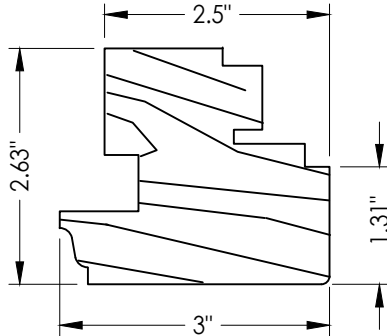
5 SASH (PROJECT IN)
Exterior Glazing Bead



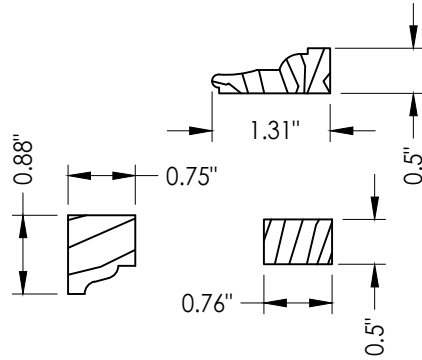
11 EUROPEAN FRAME (PROJECT OUT)



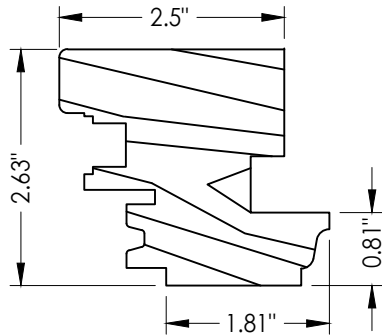
12 SASH (PROJECT OUT)
Exterior Glazing Bead



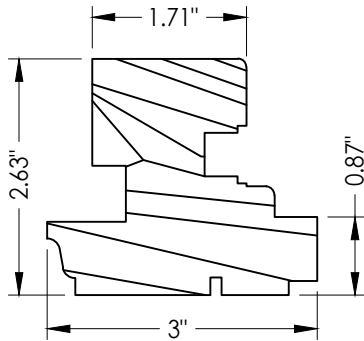
13 SASH (PROJECT OUT)
Interior Glazing Bead



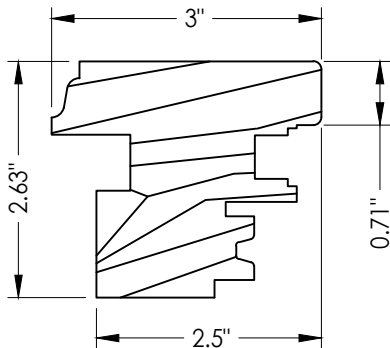
8 GLAZING BEADS



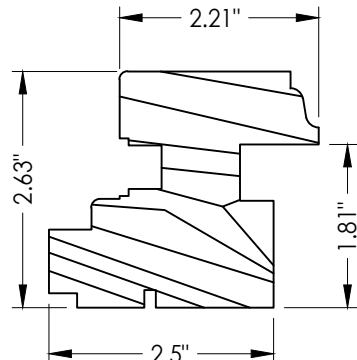
17 SASH (INACTIVE - PROJECT IN)



16 SASH (ACTIVE - PROJECT IN)



18 SASH (ACTIVE - PROJECT OUT)



19 SASH (INACTIVE - PROJECT OUT)

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:
MILLWORK ARTISANS
CASEMENT WINDOW

PART OR ASSEMBLY:
COMPONENTS

NO.	DATE	REVISIONS
4	9/14/23	UPDATE TO 8TH ED. (2023) FBC
3	9/29/20	UPDATE TO 7TH ED. (2020) FBC
2	10/3/17	UPDATE TO 6TH ED. (2017) FBC
1	3/03/15	UPDATE TO 5TH ED. (2014) FBC

DATE: 12/4/14

SCALE: N.T.S.

DWG. BY: JK

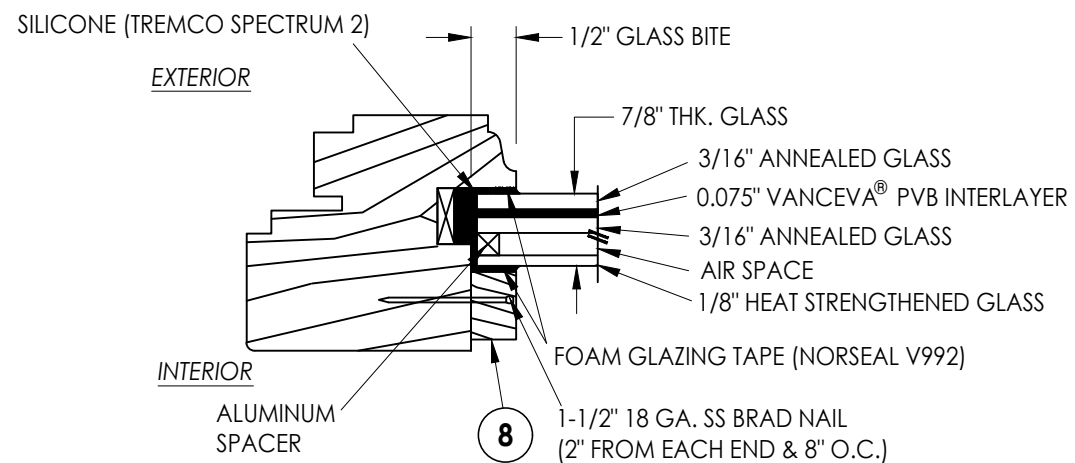
CHK. BY: LFS

DRAWING NO.:

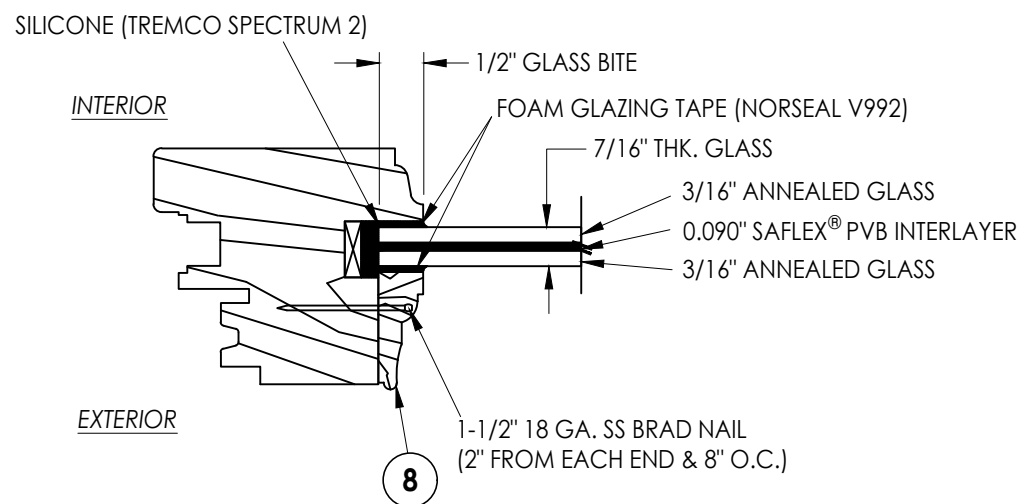
FL-17413.5

SHEET 7 OF 8

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK G >= 0.42	
B	2X BUCK G >= 0.42	WOOD
C	1/4" 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
F	#12 X 3" PFH WOOD SCREW (1-3/8" MIN EMBEDMENT)	STEEL
G	#12 X 1-3/4" PFH WOOD SCREW	STEEL
J	1/4" X 3-1/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
2	EUROPEAN FRAME (PROJECT IN)	WOOD
3	EUROPEAN FRAME SILL (PROJECT IN)	WOOD
4	SASH - PROJECT IN	WOOD
5	SASH - PROJECT IN	WOOD
8	GLAZING BEADS	WOOD
9	WEATHERSTRIP Q-LON 320 (SCHLEGEL)	WOOD
10	WEATHERSTRIP ACF 6950 (GU)	WOOD
11	EUROPEAN FRAME (PROJECT OUT)	WOOD
12	SASH (PROJECT OUT)	WOOD
13	SASH (PROJECT OUT)	WOOD
15	#12 X 1-1/4" PFH WOOD SCREW	STEEL
16	MEETING STILE (ACTIVE - PROJECT IN)	WOOD
17	MEETING STILE (IN-ACTIVE - PROJECT IN)	WOOD
18	MEETING STILE (ACTIVE - PROJECT OUT)	WOOD
19	MEETING STILE (IN-ACTIVE - PROJECT OUT)	WOOD
30	EXTRUDED ALUM DRAINAGE CHANNEL	ALUM
50	MULTI-POINT LOCK (ROTO - 6PT.)	-
53	3.5" x 3.5" BUTT HINGES	-
54	#10 X 1" PFH WOOD SCREW	STEEL
55	CONCEALED HINGE (SOSS)	-
60	0.25" X 1-1/2" X 1-1/2" ALUM. ANGLE	ALUM



G1 GLAZING DETAIL



G2 GLAZING DETAIL

[illegible]