



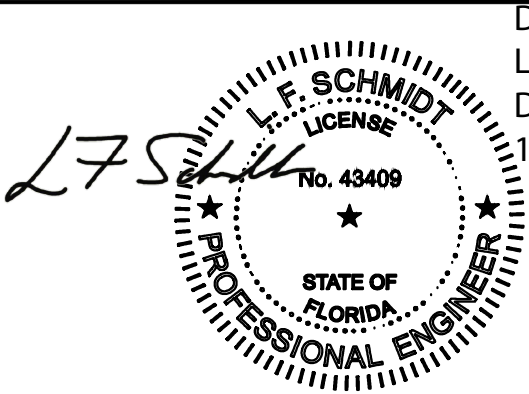
Fiber-Classic® & Smooth-Star®

WOOD EDGE
GLAZED FIBERGLASS SINGLE DOOR
w/ SIDELITE(S)
INSWING/OUTSWING
"IMPACT"

GENERAL NOTES

1. This product evaluation drawing has been developed in compliance with the 9th Edition (2026) Florida Building Code (FBC) 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. When used in areas outside of 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.
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 the water infiltration requirements for the "HVHZ".
8. Outswing configurations using Coastal Sill (item #19) & Composite Sill (item #16) under active doors meet water infiltration requirements for "HVHZ". All other configurations do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.

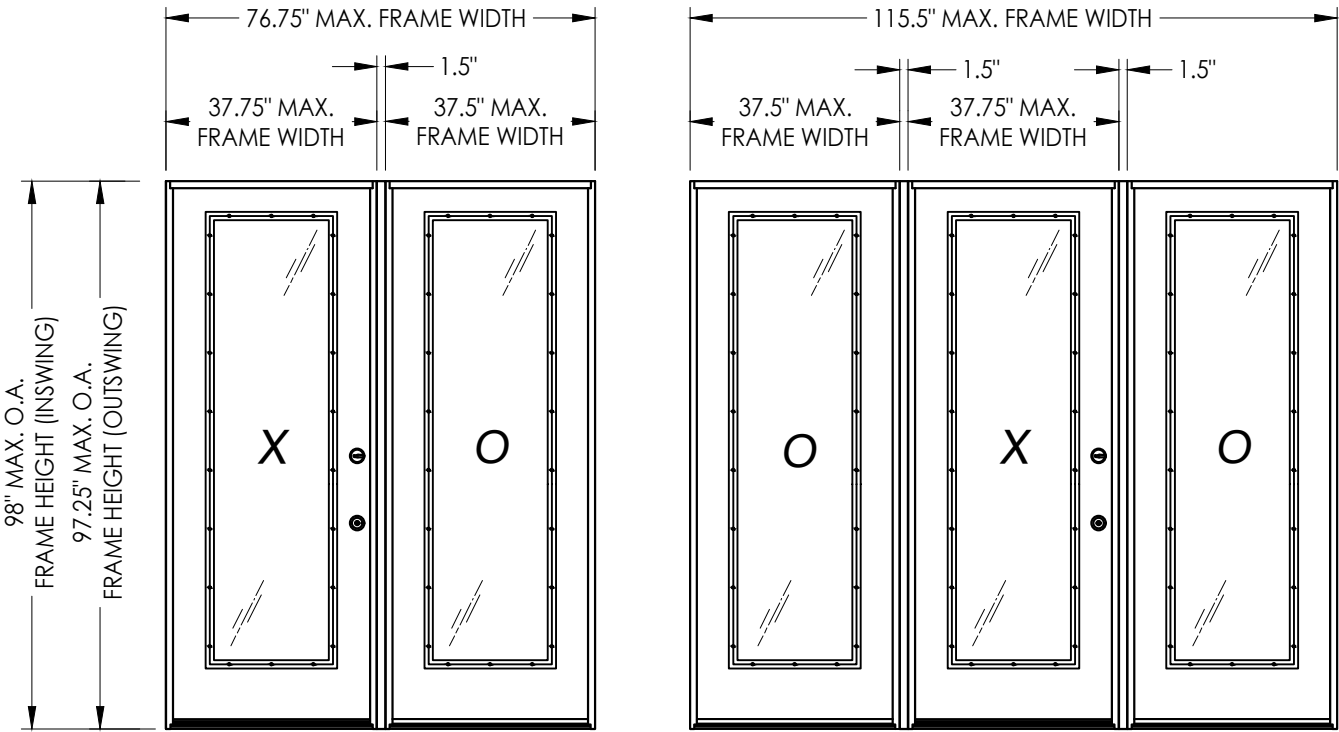
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7	Horizontal & Vertical Cross Sections (Direct to Masonry)	14	Bill of Materials



Digitally signed by
Lyndon F Schmidt
Date: 2026.08.07
13:50:25 -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



CONFIGURATION	LOCK HARDWARE	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	Latch & Deadbolt	+50.0	-55.0	+50.0	-50.0
XO, OX, OXO	Multipoint	+50.0	-55.0	+55.0	-55.0

See Sheet 4 for Hardware Specifications

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

PRODUCT:

THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
3	8/18/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	7/15/20	UPDATE TO 7th ED (2020)	FBC	PO	
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING		LFS	
NO.	DATE			BY	

REVISIONS

DATE: 12/22/16

SCALE: N.T.S.

DWG. BY: JK

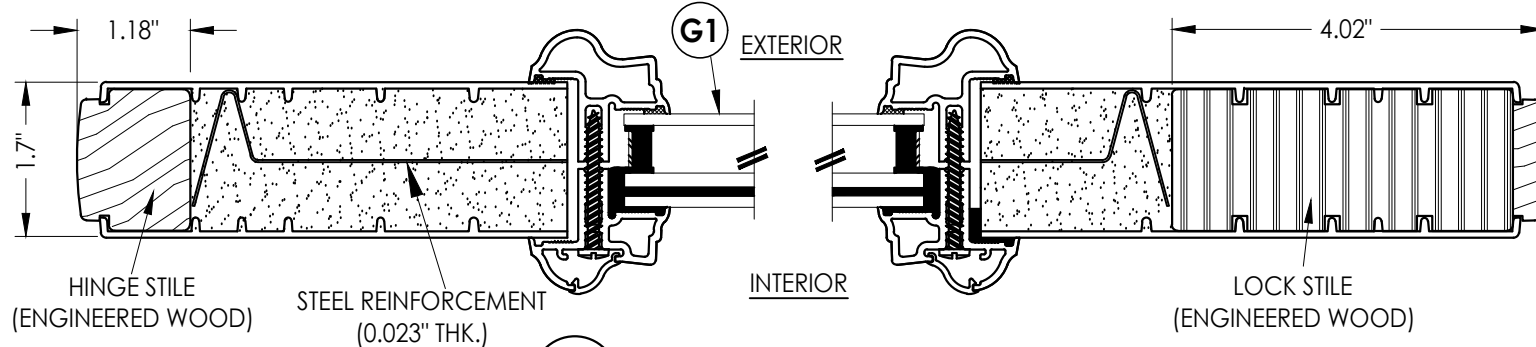
CHK. BY: LFS

DRAWING NO.: FL-21142.11

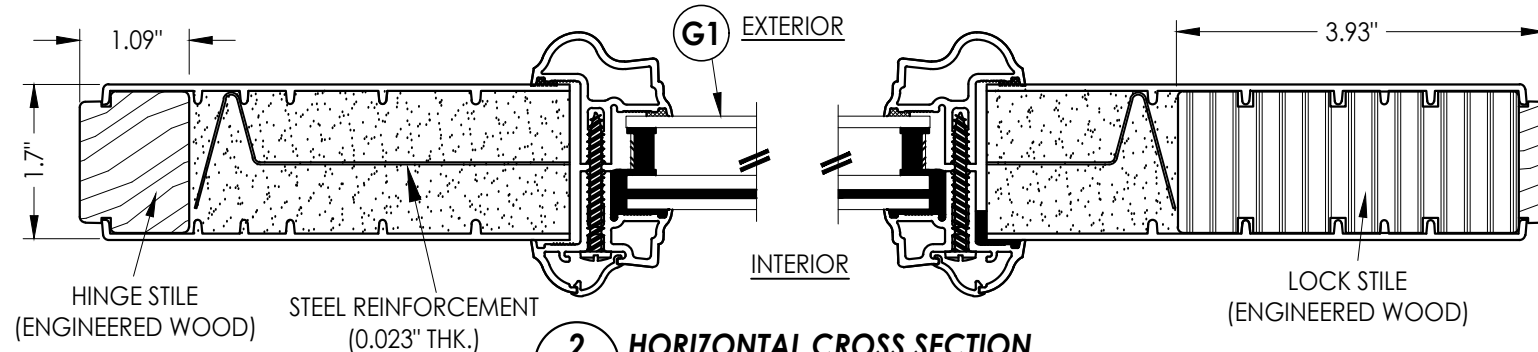
SHEET 1 OF 14

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Phone No.: 813.659.9197
FBPE Registry No. 9813



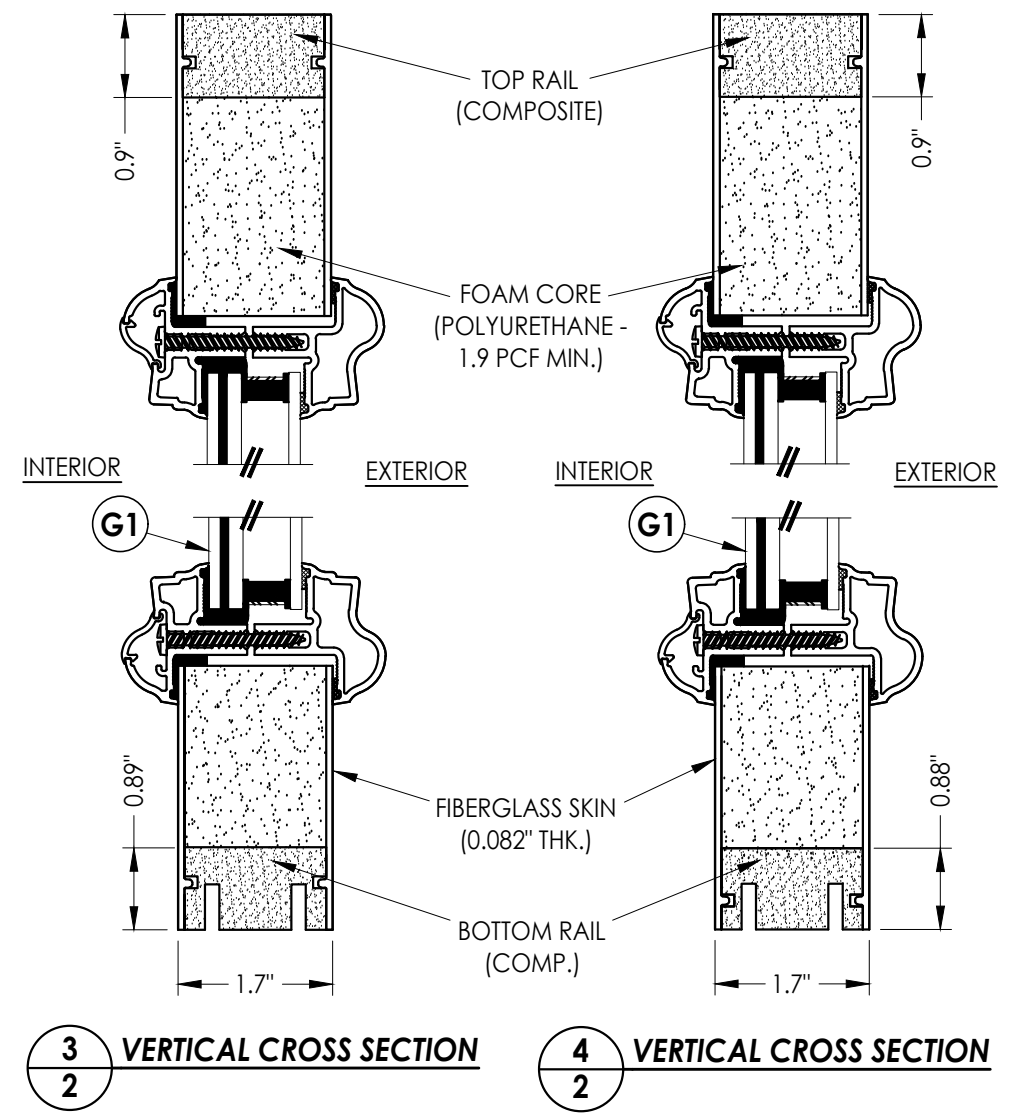
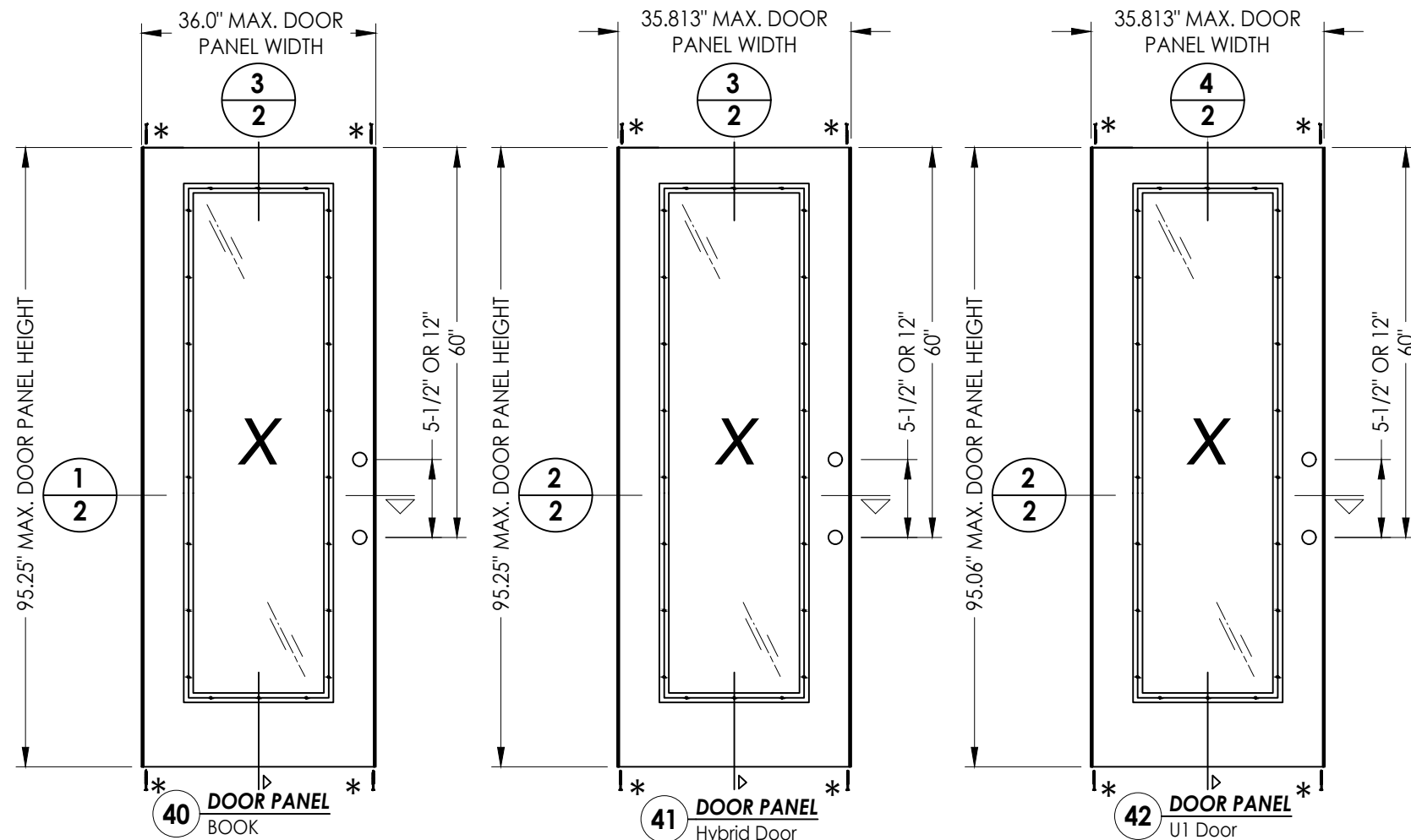
1 HORIZONTAL CROSS SECTION



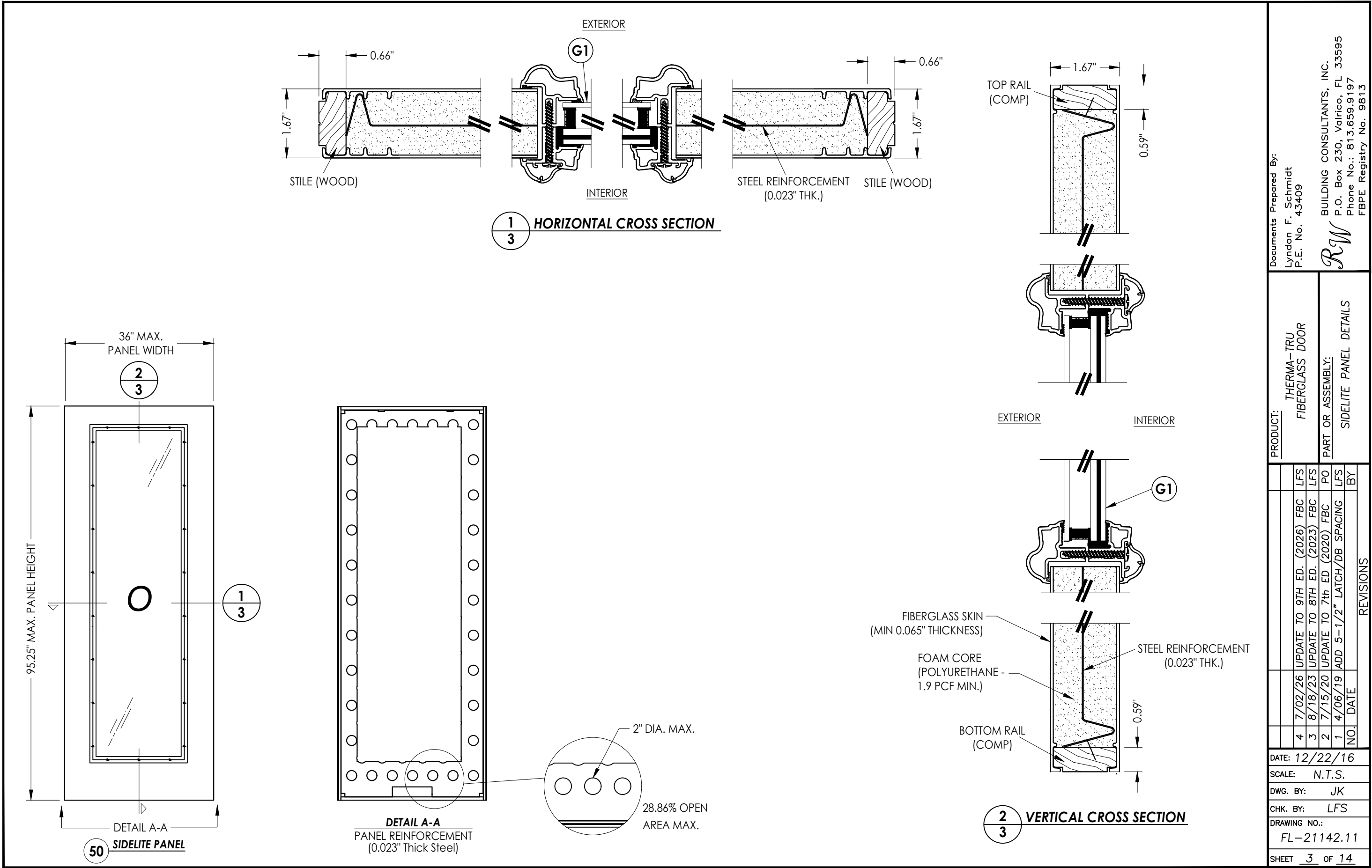
2 HORIZONTAL CROSS SECTION



* #8 X 2.5" PFH WS (TYP. @ EACH DOOR CORNER)

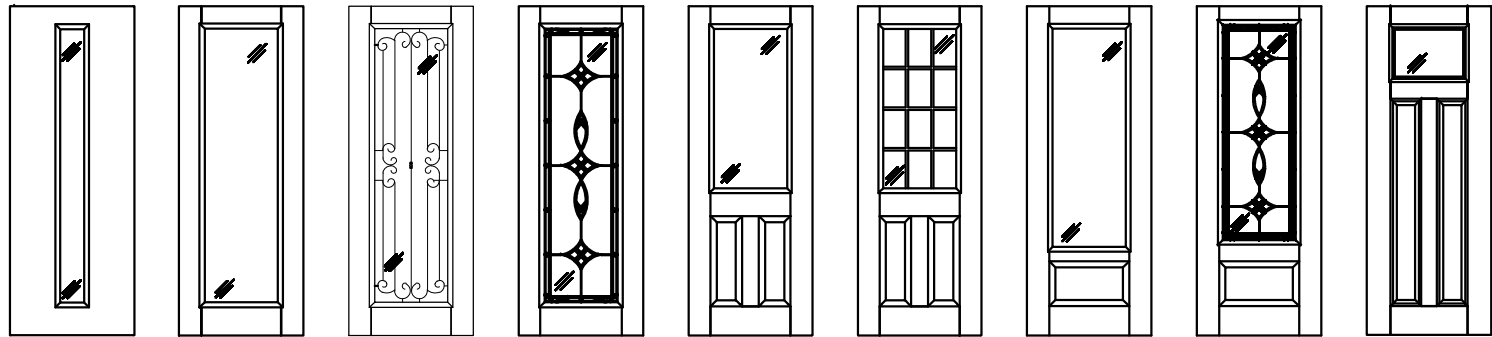
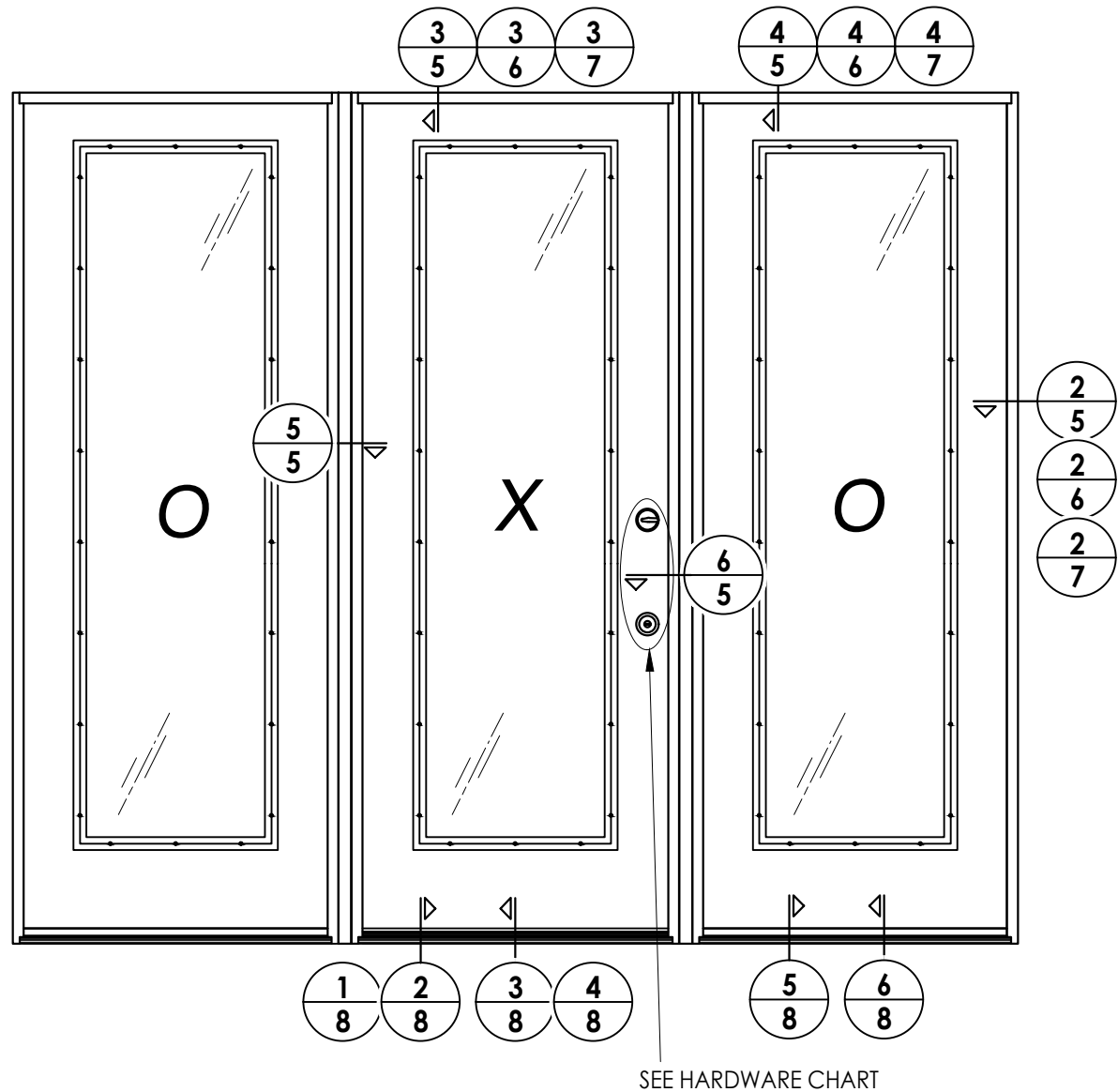
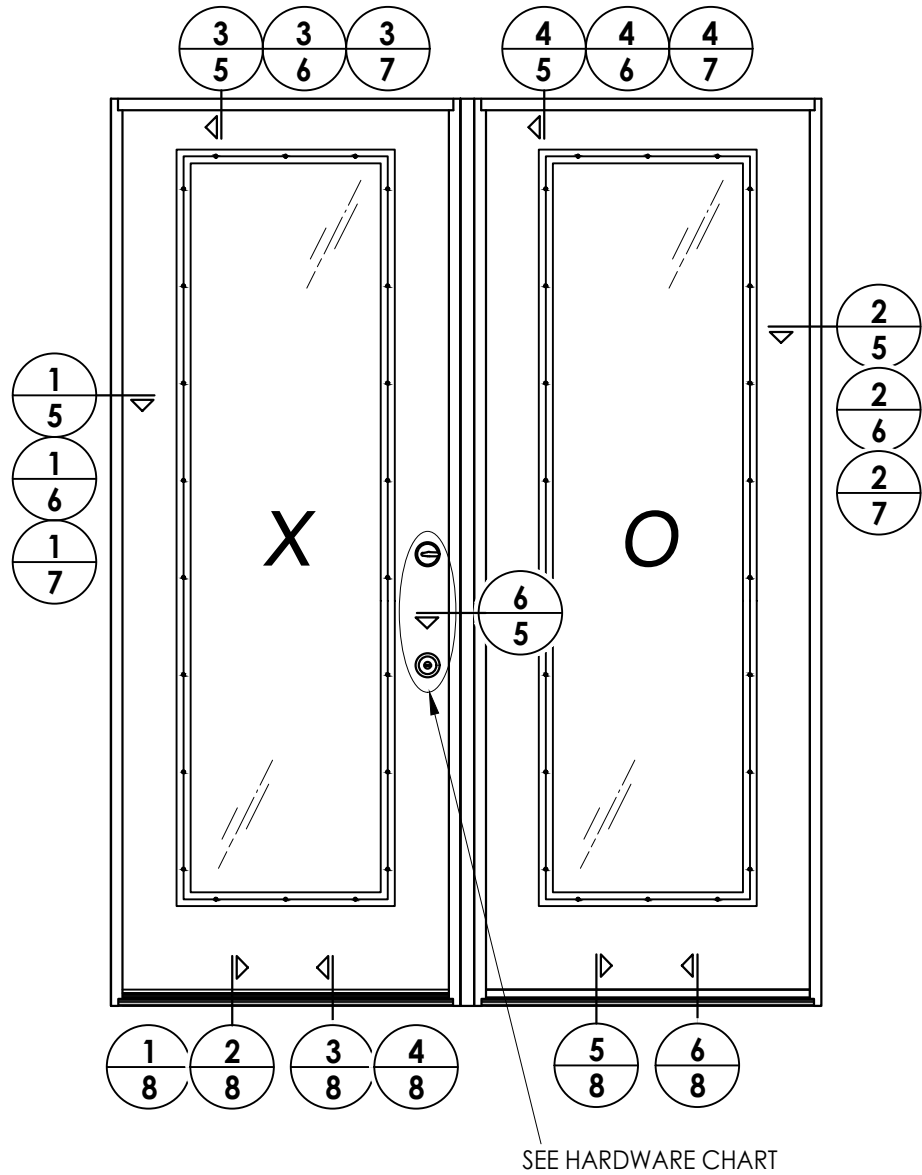
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Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: SIDELITE PANEL DETAILS	
4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC LFS
3	8/18/23	UPDATE TO 8TH ED. (2023)	FBC LFS
2	7/15/20	UPDATE TO 7th ED (2020)	FBC PO
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING	LFS
NO.	DATE	REVISIONS	
DATE: 12/22/16			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21142.11			
SHEET 3 OF 14			

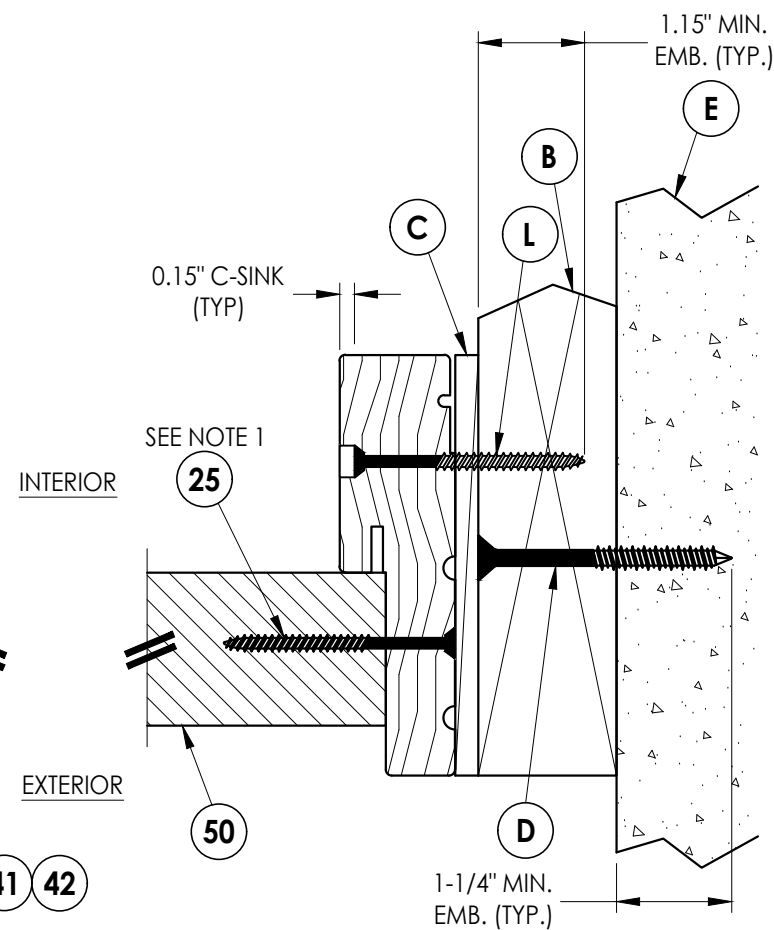
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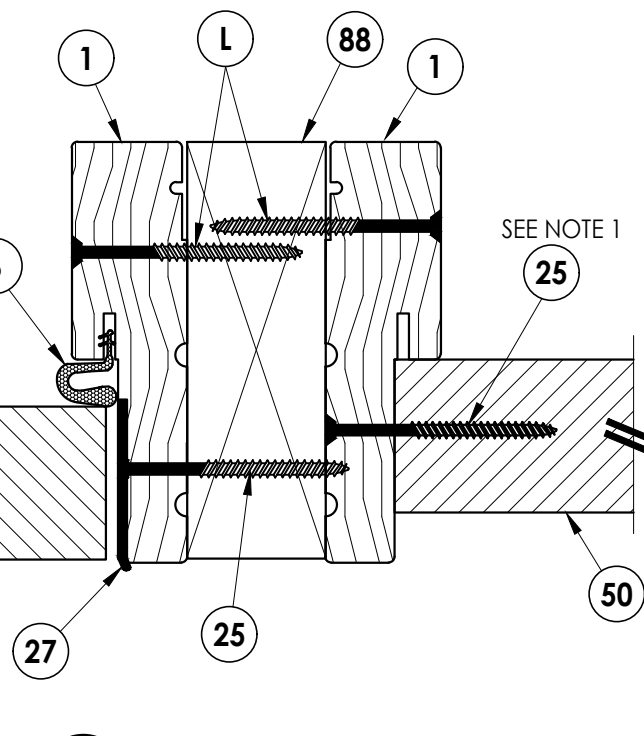
Fiber-Classic/Smooth-Star Door Panel Options
Panel options shown are for illustration and are representative only
(similar glazed panel configurations are allowed)

HARDWARE TABLE	
MANUFACTURER	MODEL
SCHLAGE	Knob: F51
	Deadbolt: B60
KWIKSET	Knob: SIGNATURE SERIES
	Deadbolt: SIGNATURE SERIES (980)
HOPPE (THERMA-TRU)	MULTIPOINT : MPDGSB
	(3 pt. Manual Shootbolt)

PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: ELEVATIONS	
DATE: 12/22/16	SCALE: N.T.S.	DRAWING NO.: FL-21142.11	
DWG. BY: JK	CHK. BY: LFS	SHEET 4 OF 14	
REVISONS		DOCUMENTS PREPARED BY: Lyndon F. Schmidt P.E. No. 43409	
NO. DATE		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC LFS
3	8/18/23	UPDATE TO 8TH ED. (2023)	FBC LFS
2	7/15/20	UPDATE TO 7TH ED. (2020)	FBC PO
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING	LFS



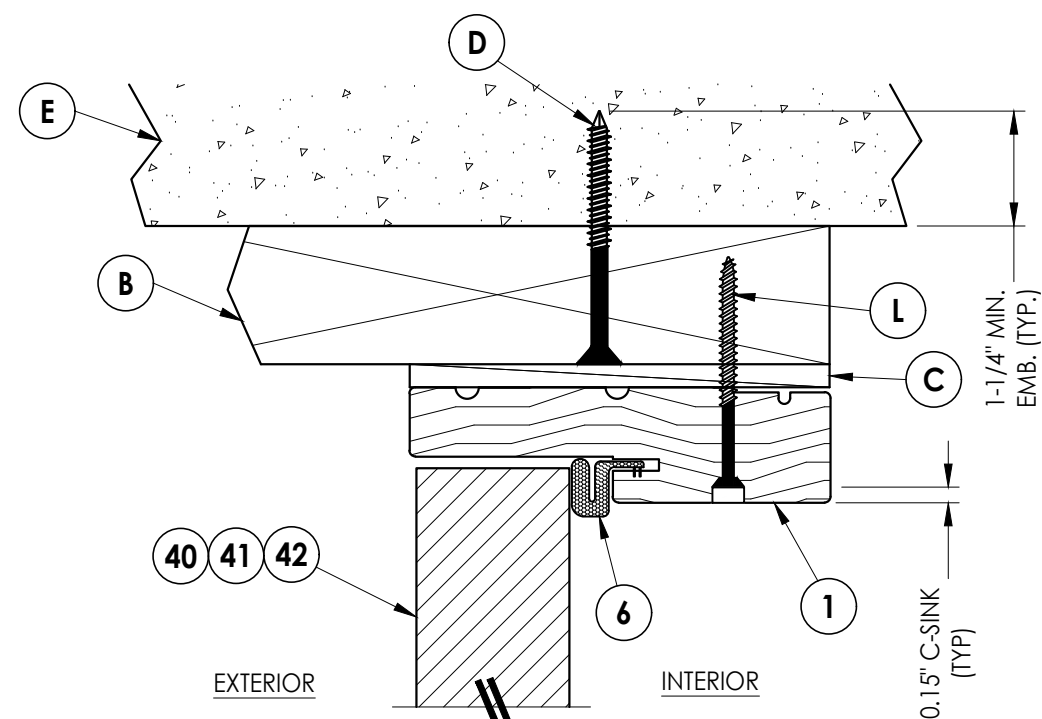
2 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)



6 HORIZONTAL CROSS SECTION

5 Outswing shown (Inswing similar)

1. Sidelite assembly screws located 6" from each end and 6 more screws equally spaced between (8 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



Technical drawing showing a cross-section of a wall-to-floor connection detail. The drawing is divided into two main sections: EXTERIOR (left) and INTERIOR (right).

Key components and labels:

- A:** Points to the exterior concrete wall.
- B:** Points to the exterior concrete wall.
- C:** Points to the interior concrete wall.
- D:** Points to the exterior concrete wall.
- E:** Points to the exterior concrete wall.
- F:** Points to the exterior concrete wall.
- G:** Points to the exterior concrete wall.
- H:** Points to the exterior concrete wall.
- I:** Points to the exterior concrete wall.
- J:** Points to the exterior concrete wall.
- K:** Points to the exterior concrete wall.
- L:** Points to the exterior concrete wall.
- M:** Points to the exterior concrete wall.
- N:** Points to the exterior concrete wall.
- O:** Points to the exterior concrete wall.
- P:** Points to the exterior concrete wall.
- Q:** Points to the exterior concrete wall.
- R:** Points to the exterior concrete wall.
- S:** Points to the exterior concrete wall.
- T:** Points to the exterior concrete wall.
- U:** Points to the exterior concrete wall.
- V:** Points to the exterior concrete wall.
- W:** Points to the exterior concrete wall.
- X:** Points to the exterior concrete wall.
- Y:** Points to the exterior concrete wall.
- Z:** Points to the exterior concrete wall.
- 1:** Points to the exterior concrete wall.
- 25:** Points to the exterior concrete wall.
- 50:** Points to the exterior concrete wall.
- SEE NOTE 2:** Points to the exterior concrete wall.
- 1-1/4" MIN. EMB. (TYP.):** Dimension for the exterior concrete wall.
- 0.15" C-SINK (TYP):** Dimension for the exterior concrete wall.

Dimensions and notes:

- 1-1/4" MIN. EMB. (TYP.)
- 0.15" C-SINK (TYP)
- SEE NOTE 2

4 VERTICAL CROSS SECTION
5 Outswing shown (Inswing similar)

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RV

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

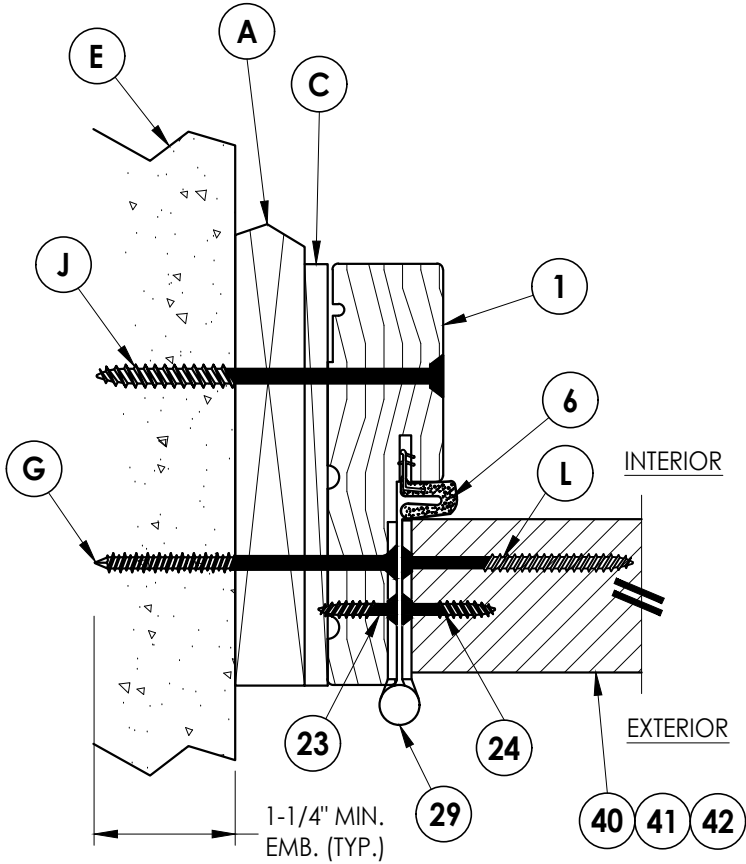
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FL-21142.11

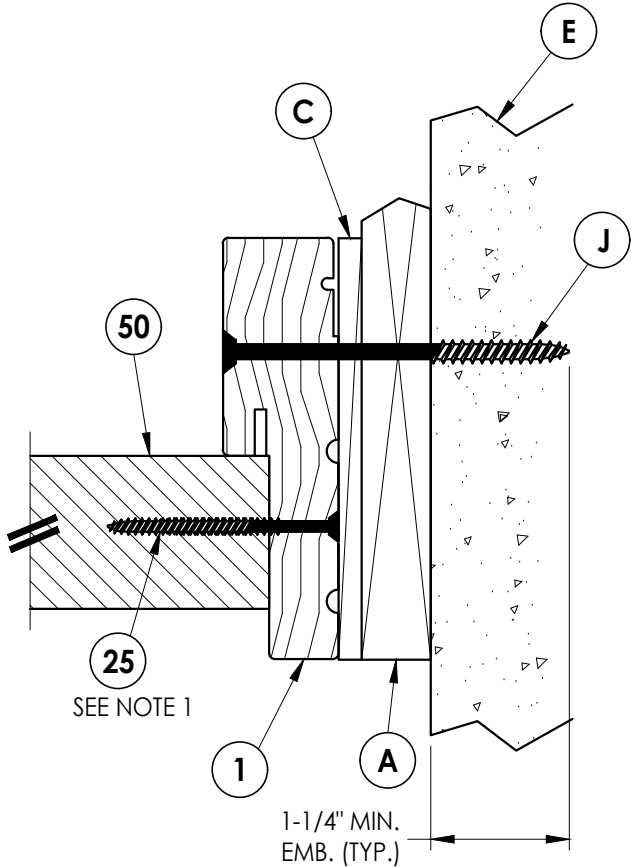
SHEET 5 OF 14

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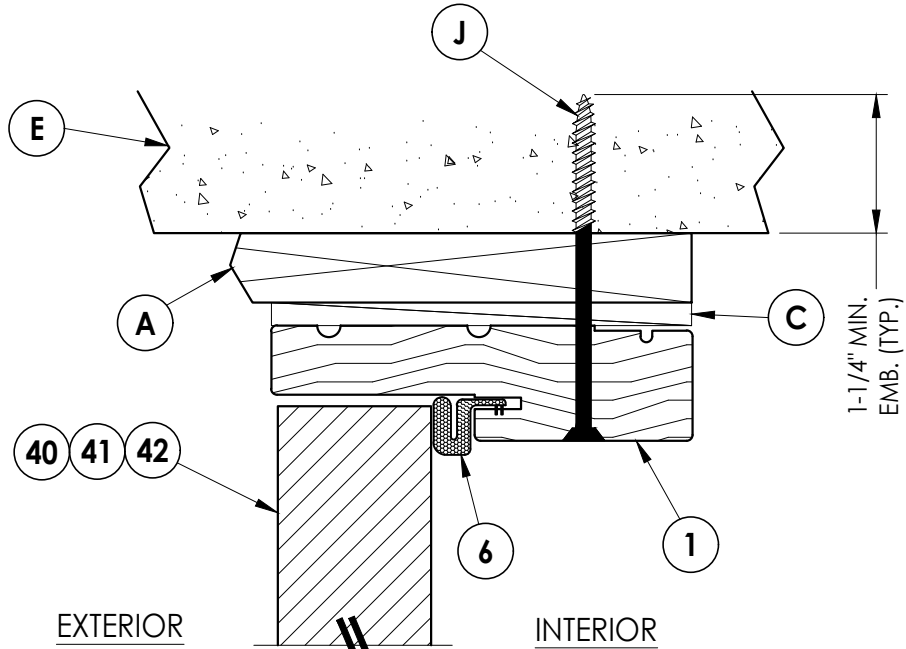
- Notes:
1. Sidelite assembly screws located 6" from each end and 6 more screws equally spaced between (8 screws total per side jamb).
 2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



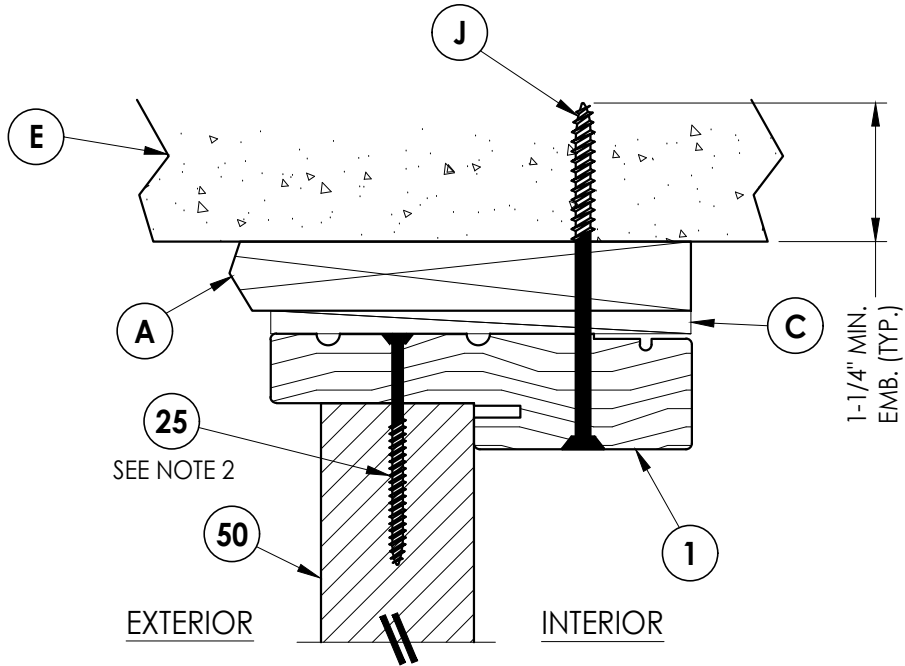
1
6 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



2
6 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



3
6 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



4
6 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

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:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (1X BUCK)

NO.	DATE	REVISIONS
4	7/02/26	UPDATE TO 9TH ED. (2026) FBC LFS
3	8/18/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/15/20	UPDATE TO 7th ED (2020) FBC PO
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING LFS
		BY

DATE: 12/22/16

SCALE: N.T.S.

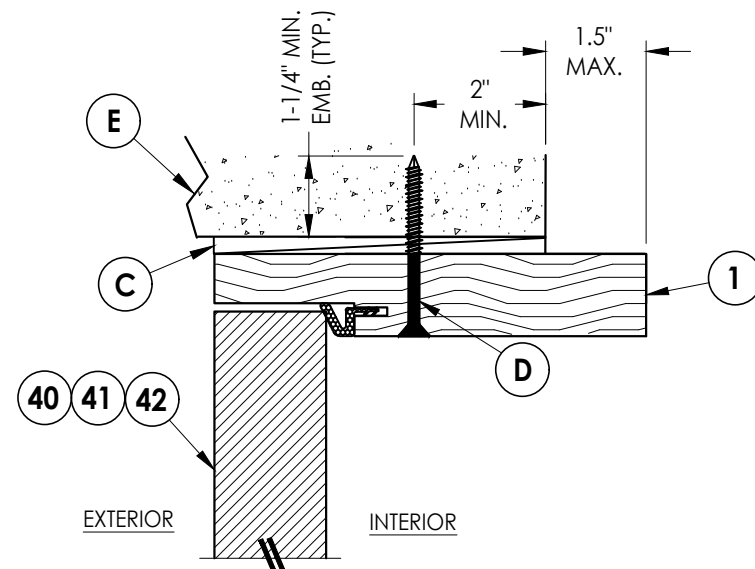
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21142.11

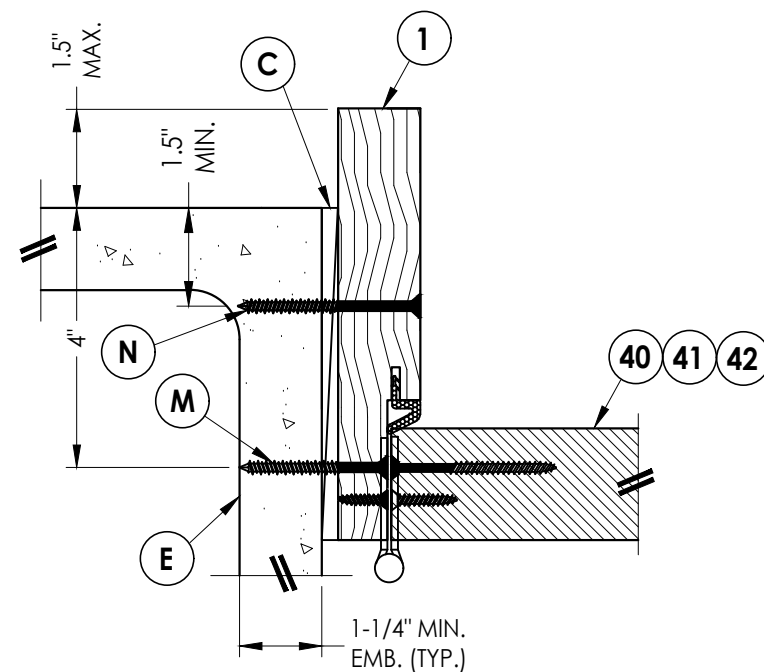
SHEET 6 OF 14



3 **HORIZONTAL CROSS SECTION**
7 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

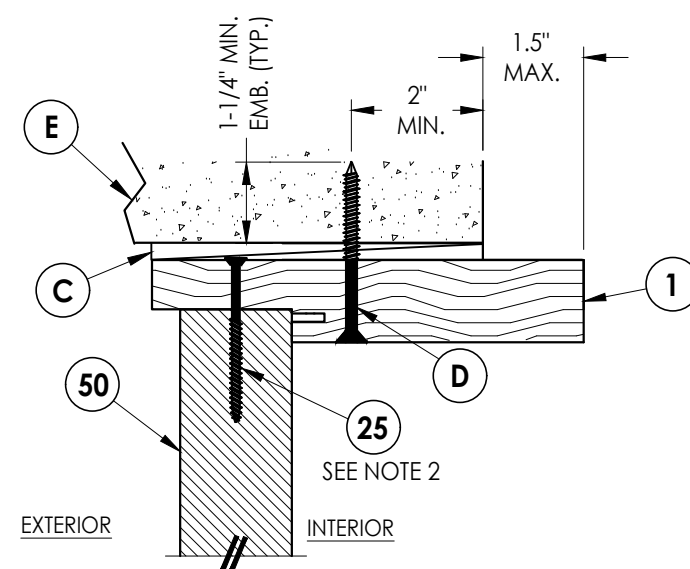
Notes:

1. Sidelite assembly screws located 6" from each end plus 6 more equally spaced between (8 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).

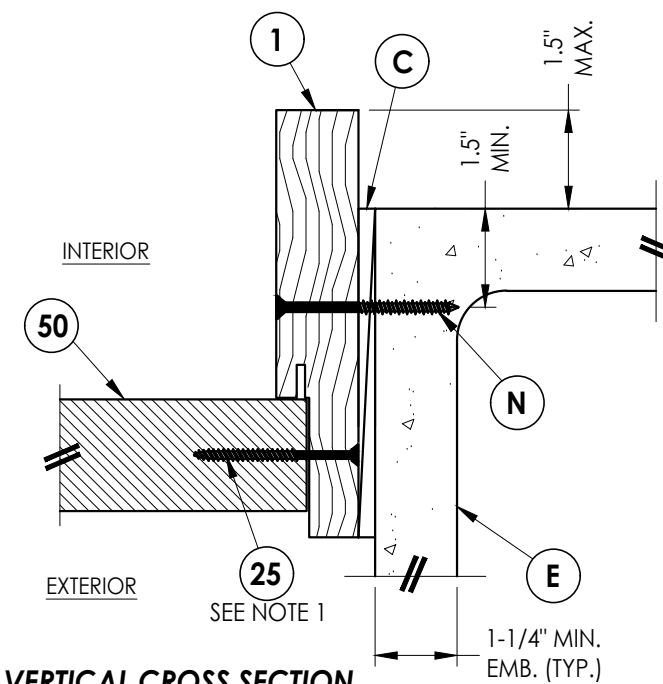


1 7 **HORIZONTAL CROSS SECTION**

Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



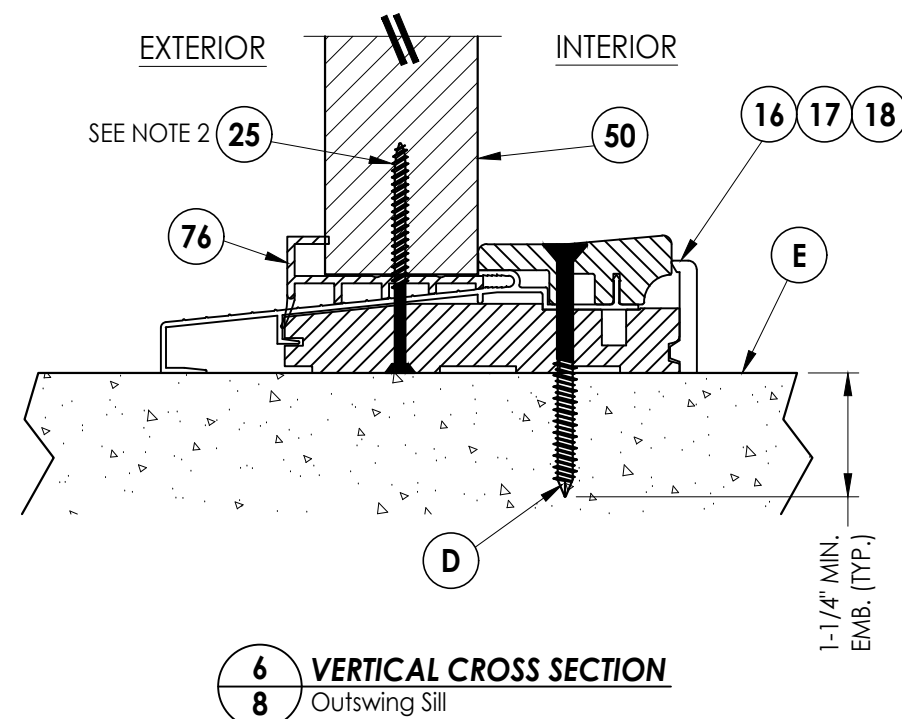
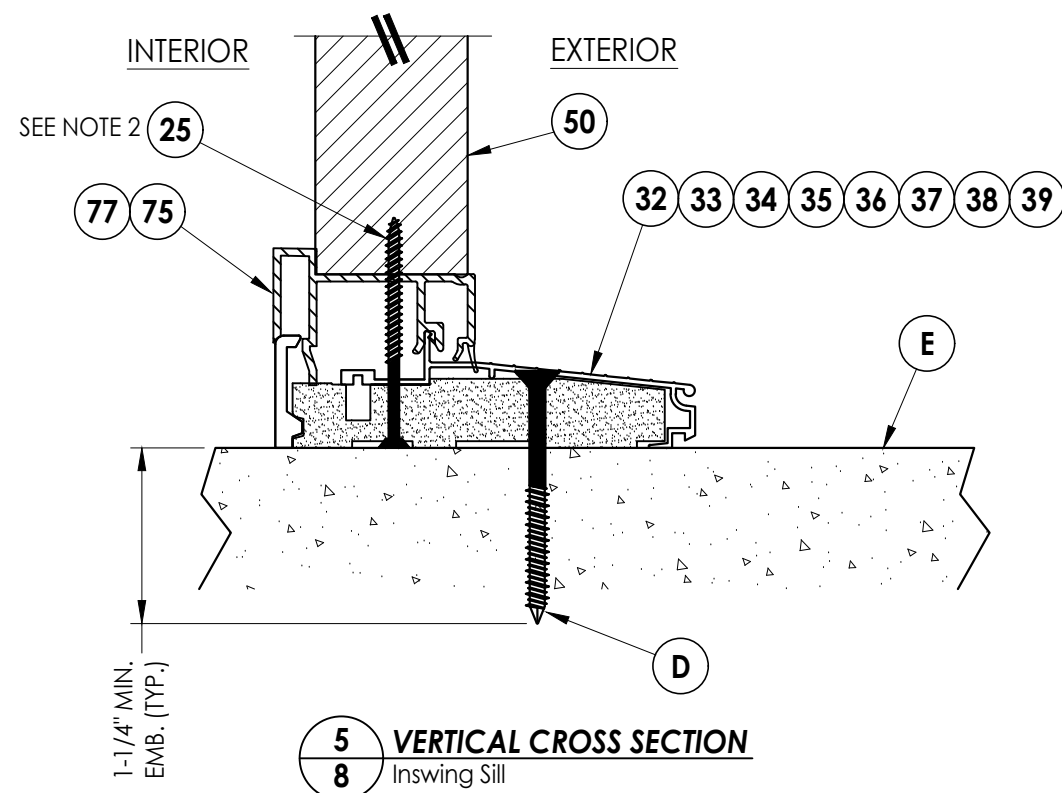
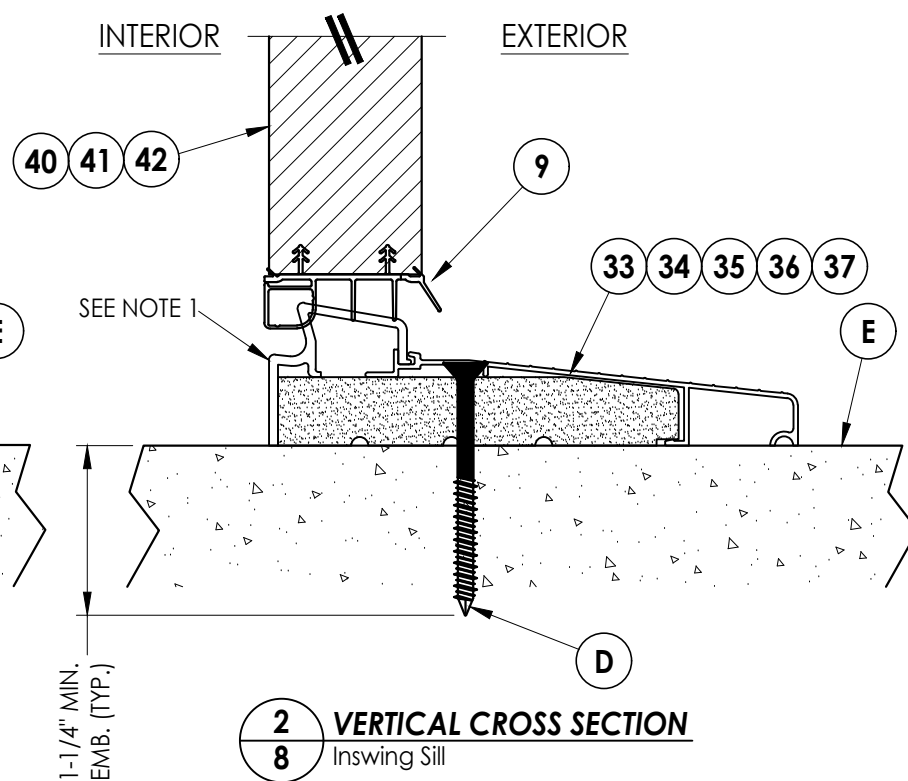
4 **VERTICAL CROSS SECTION**
7 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb



2 **VERTICAL CROSS SECTION**
7 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb

DATE: 12/22/16		PRODUCT:		Documents Prepared By:	
SCALE: N.T.S.		THERMA-TRU FIBERGLASS DOOR		Lyndon F. Schmidt P.E. No. 43409	
DWG. BY: JK		PART OR ASSEMBLY:		BUILDING CONSULTANTS, INC.	
CHK. BY: LFS		HORIZONTAL & VERTICAL SECTIONS (DIRECT TO MASONRY)		P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
DRAWING NO.: FL-21142.11		REVISONS		RW	
SHEET 7 OF 14					

1. Sill Item #'s 17, 18, 32, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pph screws at each end.
Sill Item #'s 16 & 33 are attached to jambs w/ (2) #8 X 2-1/2" pph screws at each end.
Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph screws at each end.
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along sill).

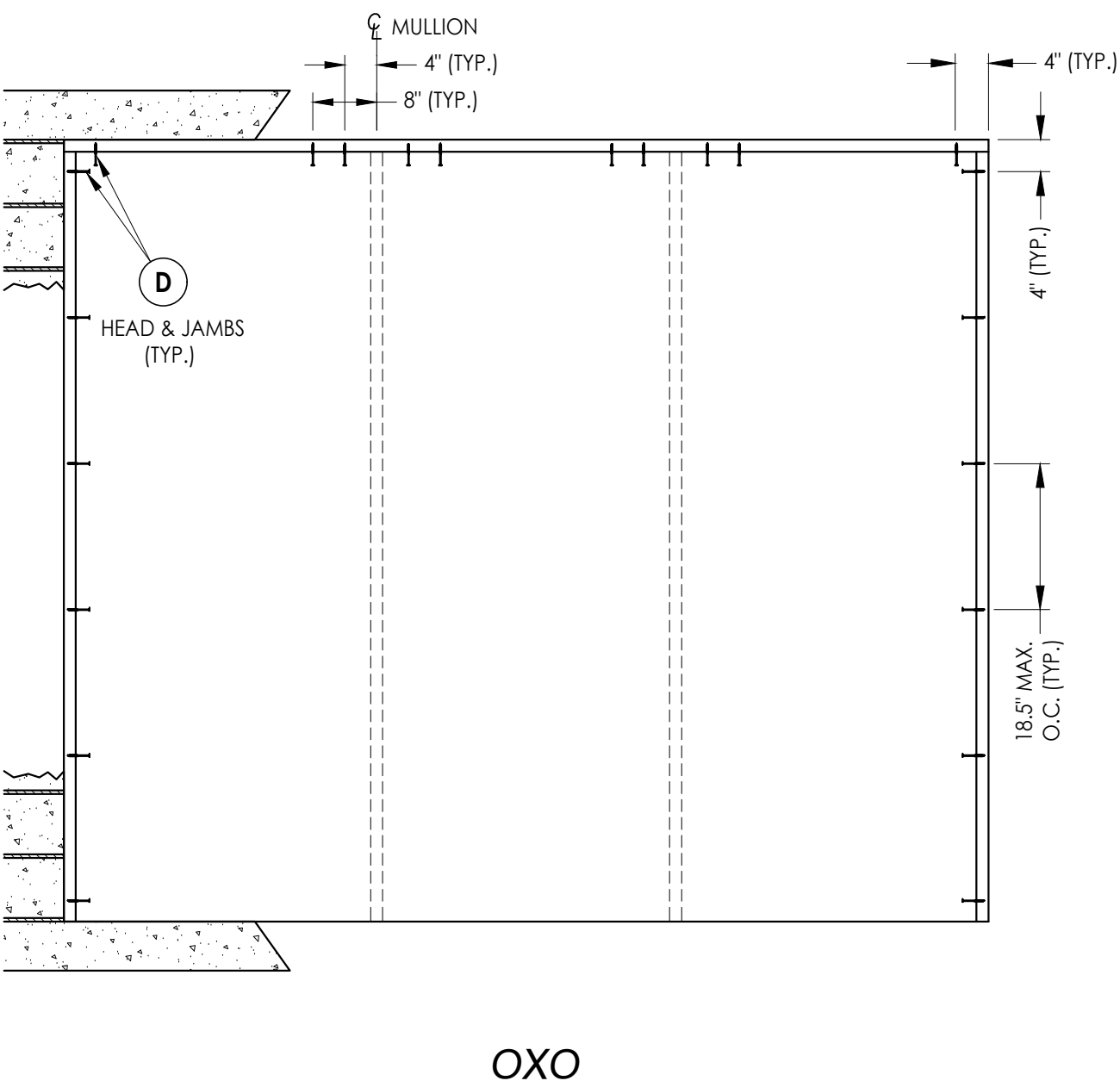
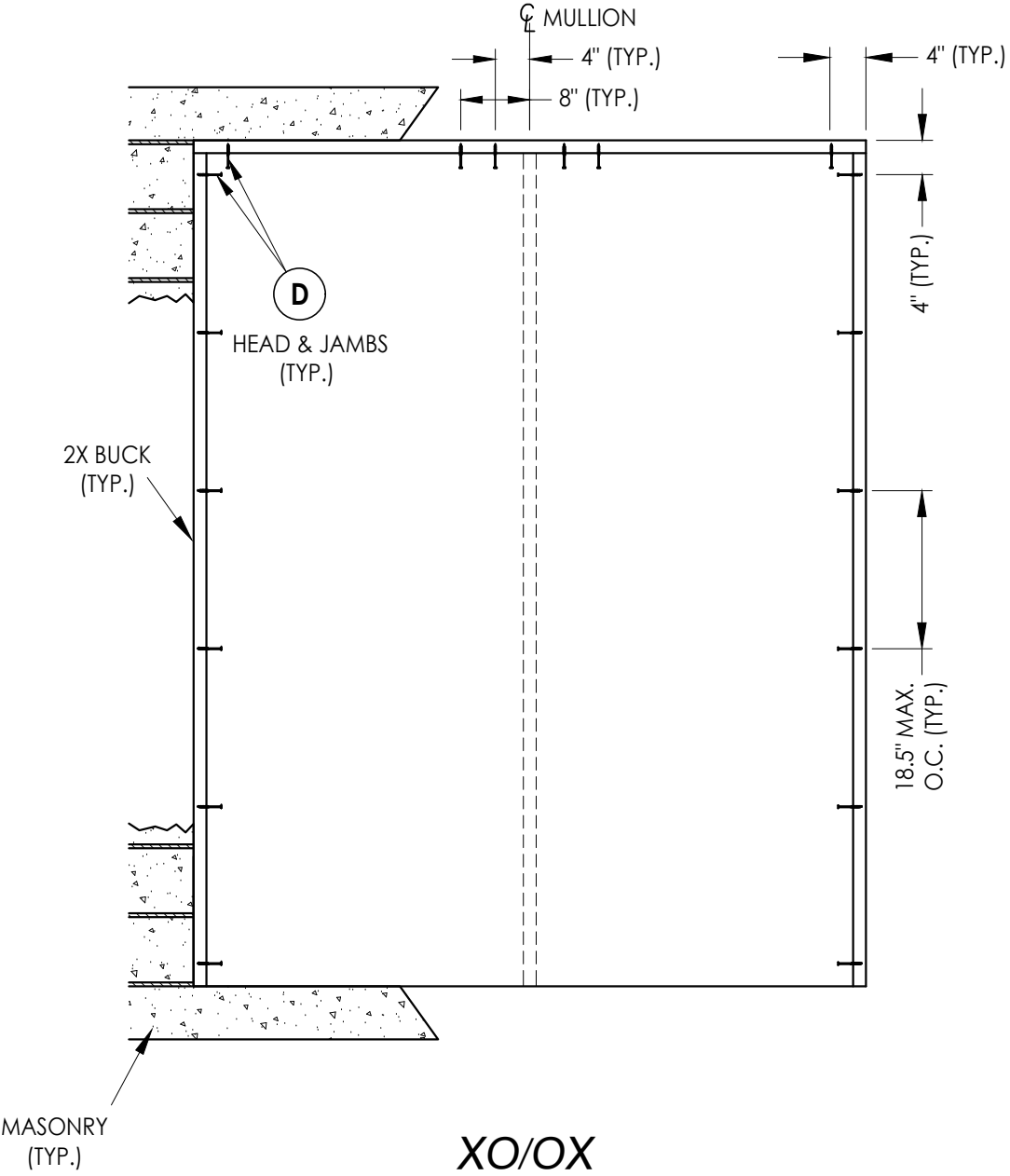


BUILDING CONSULTANTS, INC.
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FBPE Registry No. 9813

OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)

4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
3	8/18/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	7/15/20	UPDATE TO 7th ED (2020)	FBC	PO	
1	4/06/19	ADD 5--1/2" LATCH/DB SPACING		LFS	
NO.	DATE				
					REVISIONS
DATE: 12/22/16					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-21142.11					
SHEET 8 OF 14					

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2X BUCK ANCHORING

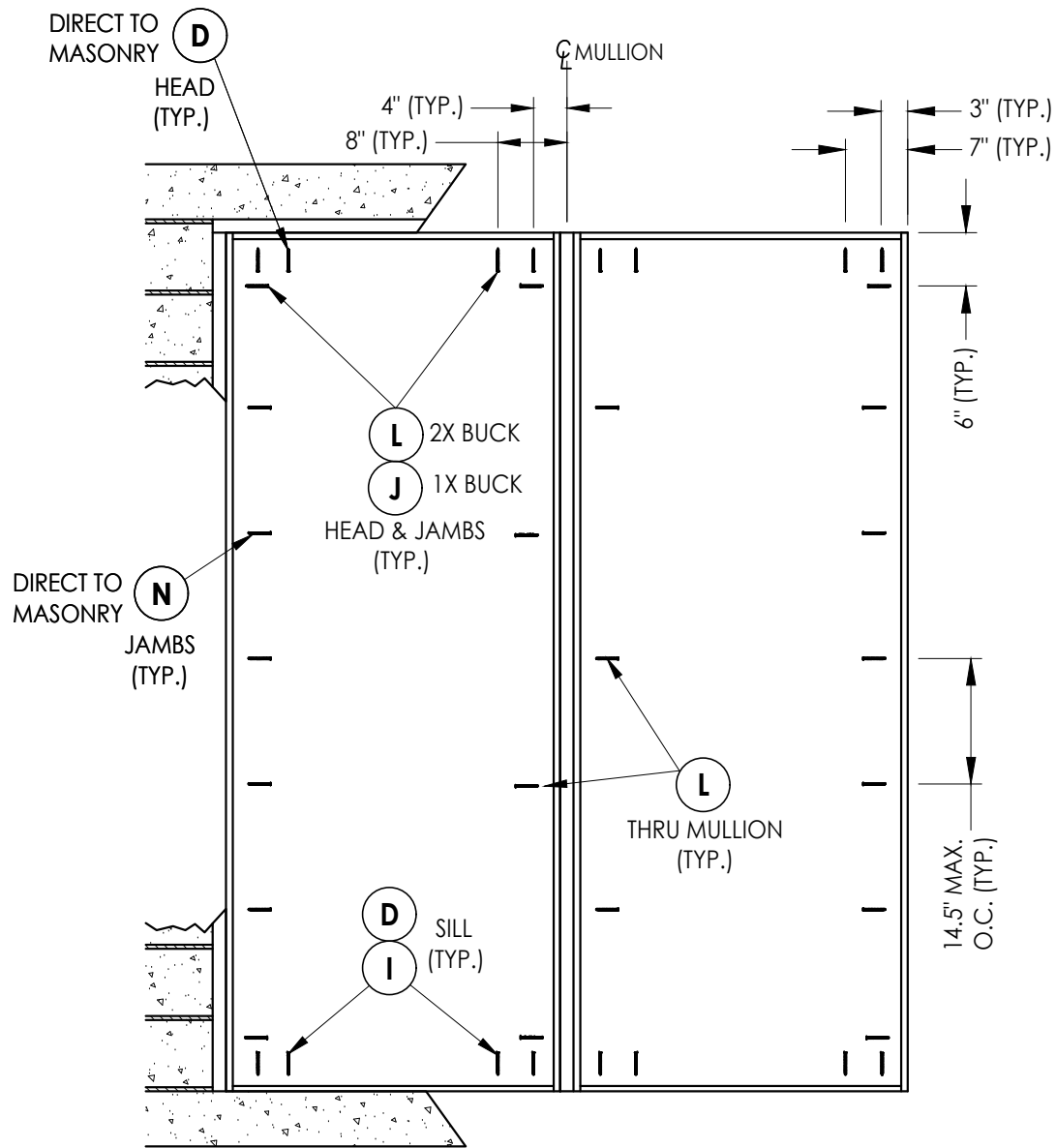
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12/22/16		1		4/06/19	
SCALE: N.T.S.		2		7/15/20	
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CHK. BY: LFS		4		7/02/26	
DRAWING NO.: FL-21142.11		5		UPDATE TO 9TH ED. (2026)	
SHEET 9 OF 14		6		UPDATE TO 8TH ED. (2023)	
		7		UPDATE TO 7th ED. (2020)	
		8		ADD 5-1/2" LATCH/DB SPACING	
		9		REVISIONS	

PRODUCT:		PART OR ASSEMBLY:	
THERMA-TRU FIBERGLASS DOOR		BUCK ANCHORING	

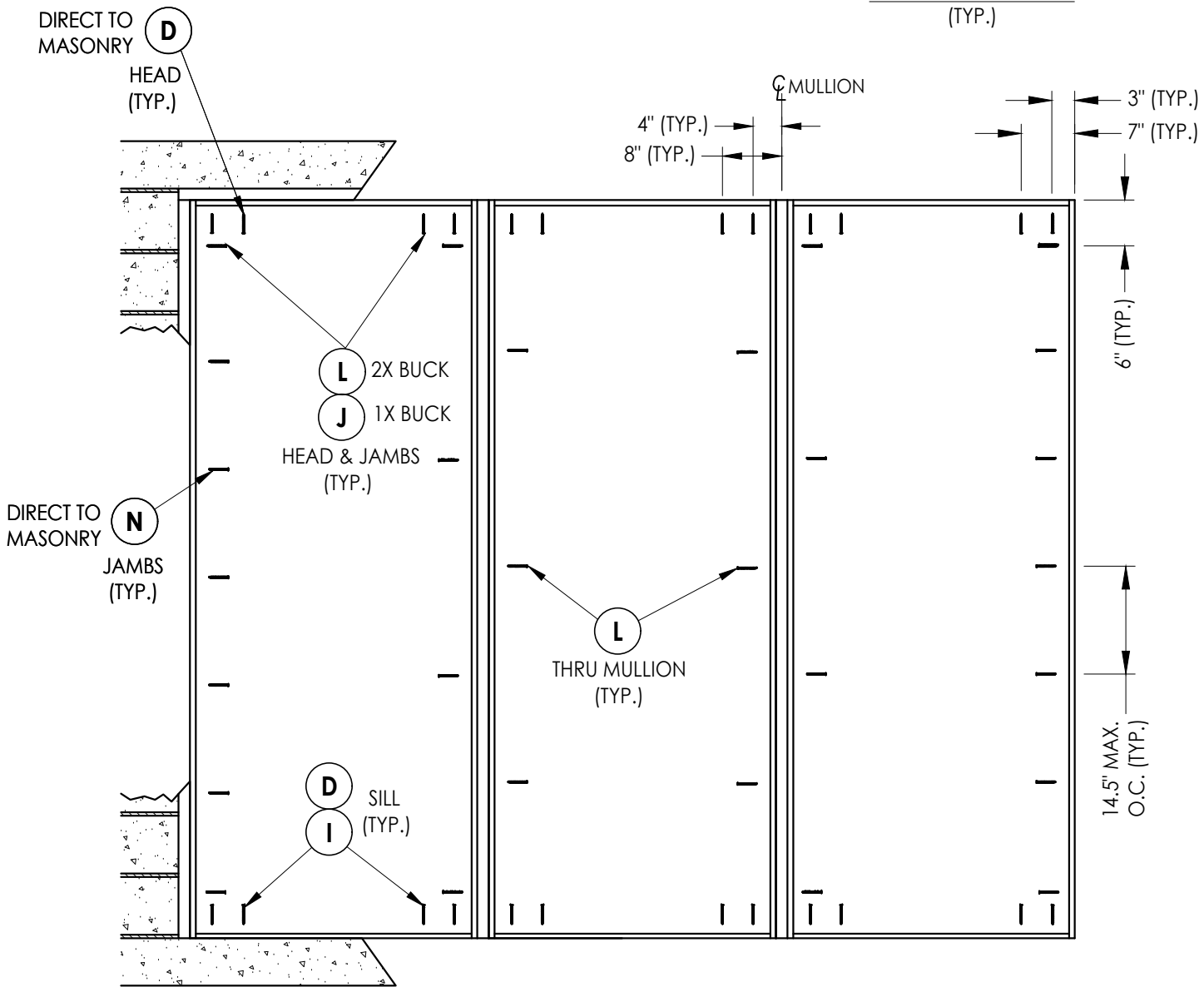
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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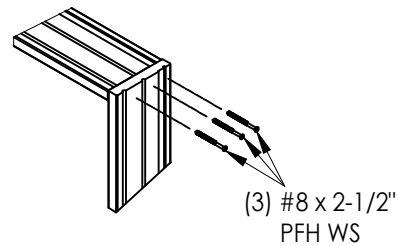
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XO/OX



OXO



JAMB TO HEAD DETAIL (TYP.)

FRAME ANCHORING

NO.	DATE	REVISIONS			
4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
3	8/18/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	7/15/20	UPDATE TO 7th ED. (2020)	FBC	PO	
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING	LFS	BY	

DATE: 12/22/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21142.11

SHEET 10 OF 14

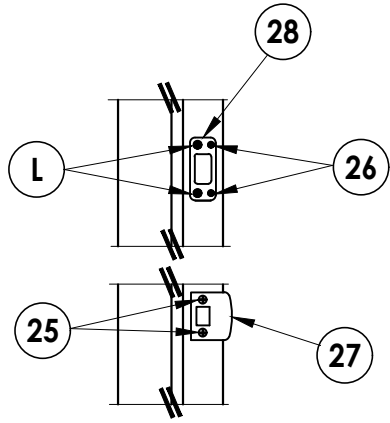
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

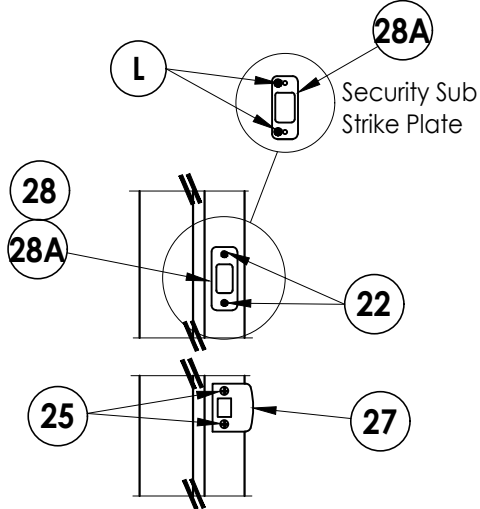
PART OR ASSEMBLY:
FRAME ANCHORING

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

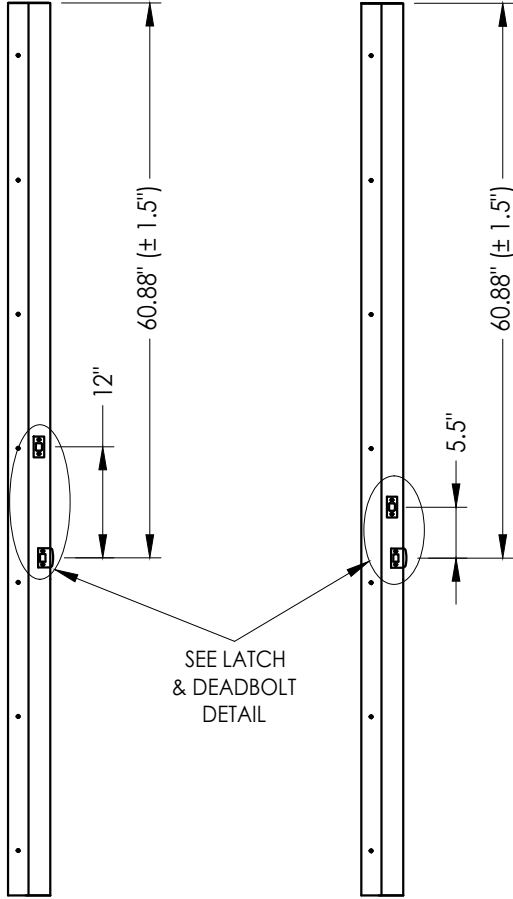
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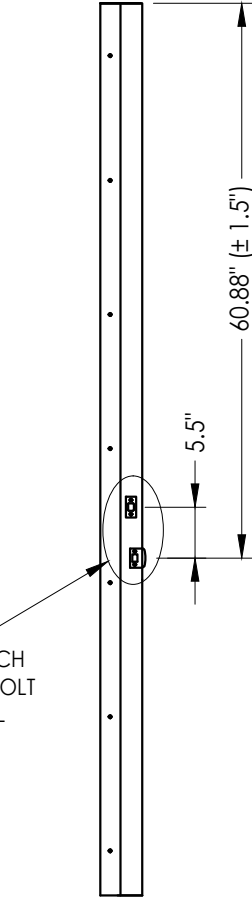
LATCH & DEADBOLT DETAIL
Kwikset



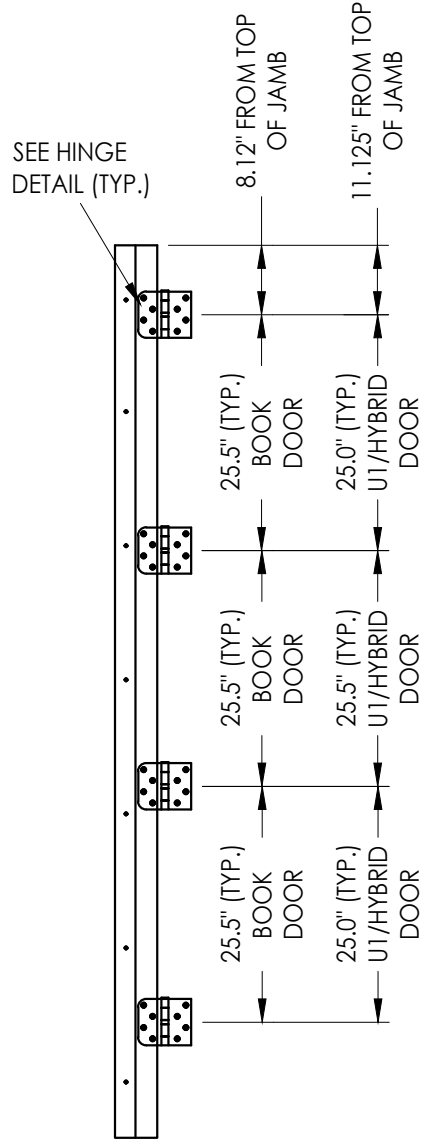
LATCH & DEADBOLT DETAIL
Schlage



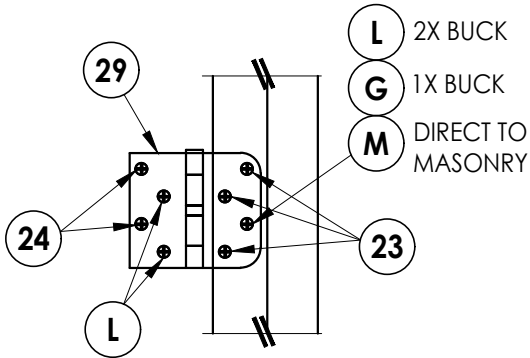
STRIKE JAMB
Latch & Deadbolt
(12" o.c. spacing)



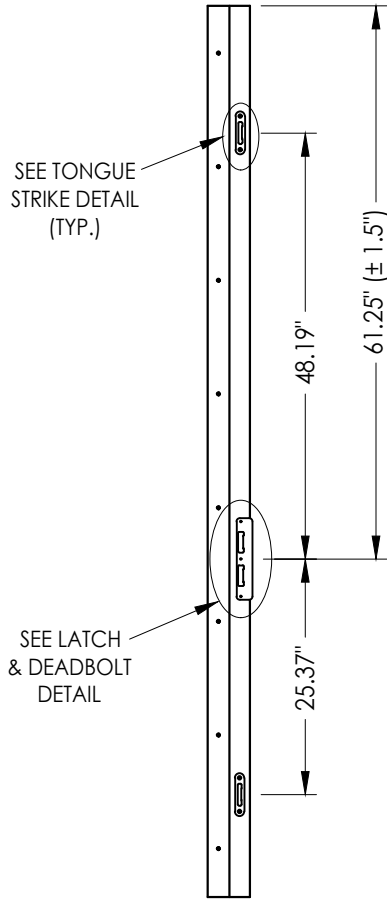
STRIKE JAMB
Latch & Deadbolt
(5-1/2" o.c. spacing)



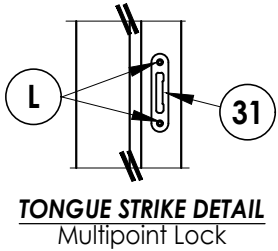
HINGE JAMB



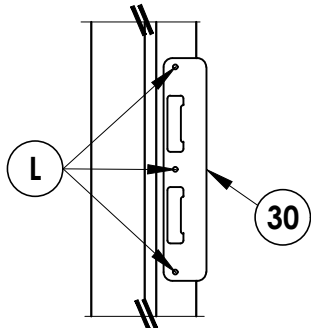
HINGE DETAIL



STRIKE JAMB
Multipoint Lock



TONGUE STRIKE DETAIL
Multipoint Lock



LATCH & DEADBOLT DETAIL
Multipoint Lock

MULTIPOINT LOCK STRIKE DETAILS

LATCH & DEADBOLT STRIKE DETAILS

NO.	DATE	REVISIONS
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING
2	7/15/20	UPDATE TO 7th ED. (2020) FBC
3	8/18/23	UPDATE TO 8TH ED. (2023) FBC
4	7/02/26	UPDATE TO 9TH ED. (2026) FBC
LFS		
LFS		
PO		
LFS		
BY		

DATE: 12/22/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21142.11

SHEET 11 OF 14

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

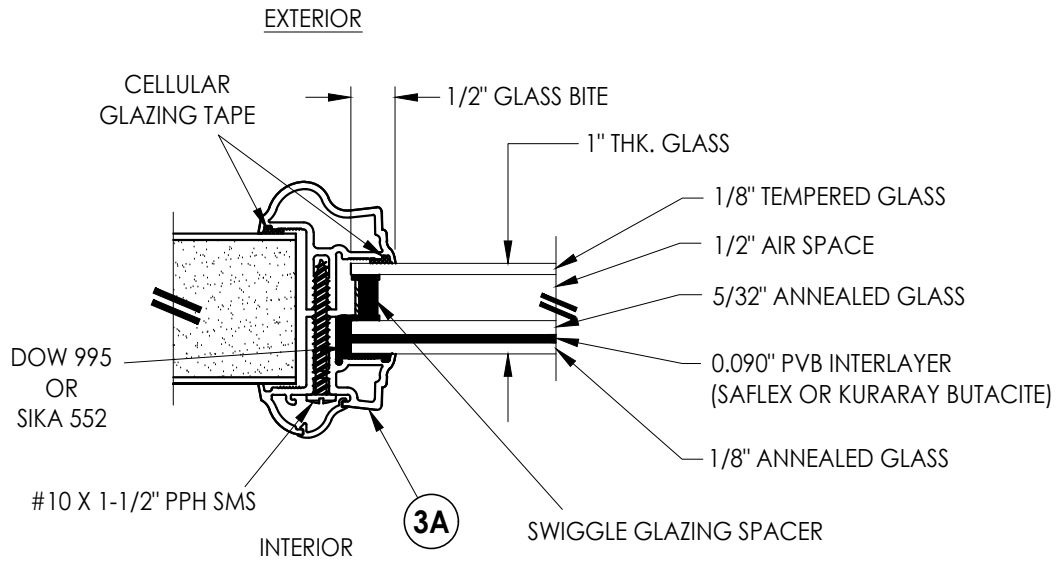
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

RW

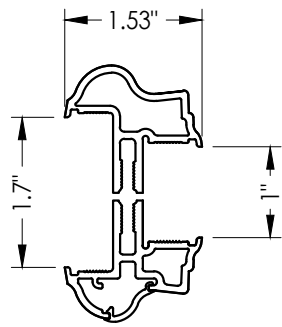
PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
HARDWARE DETAILS

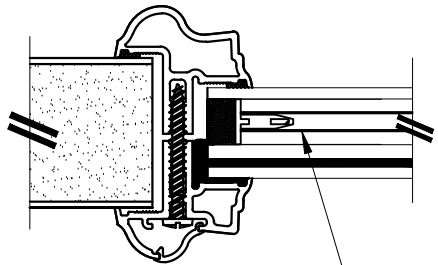
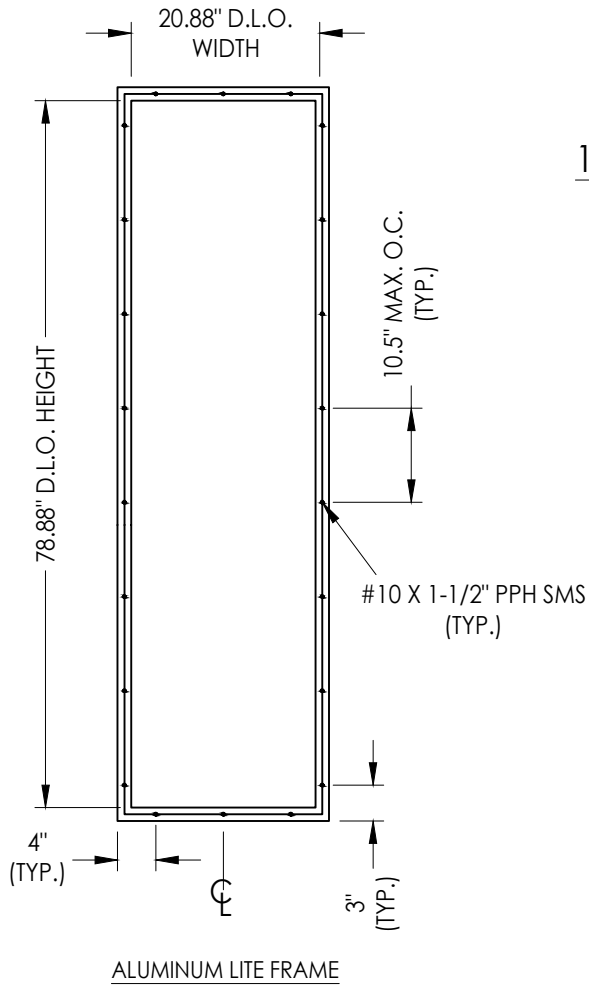
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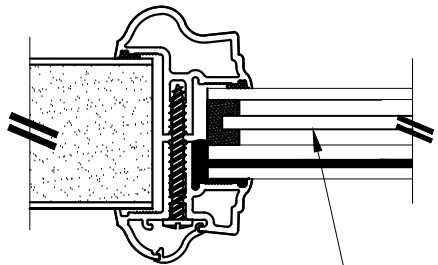
G1 GLAZING DETAIL
Aluminum Impact Lite Frame
Door Panels & Sidelites



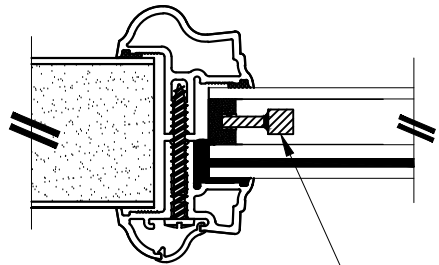
3A ALUMINUM FRAME
Aluminum Impact Lite Frame
Door Panels & Sidelites



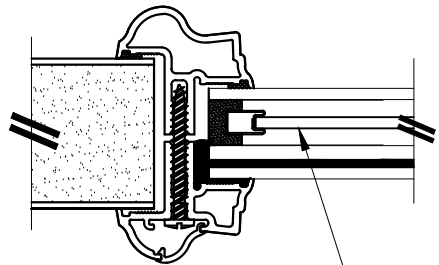
INTERNAL GRID (GBG)



PRIVACY INSERT



WROUGHT IRON INSERT



DECORATIVE INSERT

1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS

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FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

GLAZING DETAILS

NO.	DATE	REVISIONS			
		DATE	BY	LFS	PO
4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
3	8/18/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	7/15/20	UPDATE TO 7th ED (2020)	FBC	PO	
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING	LFS		

DATE: 12/22/16

SCALE: N.T.S.

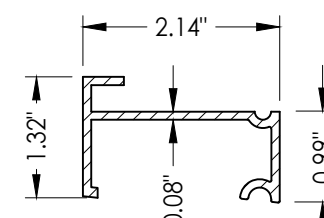
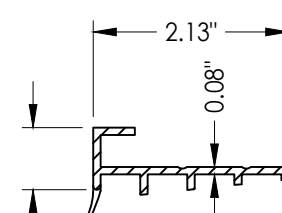
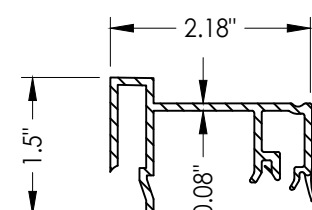
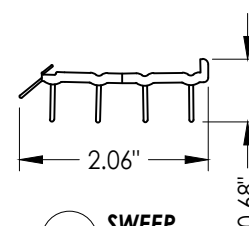
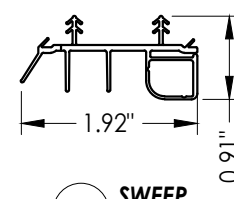
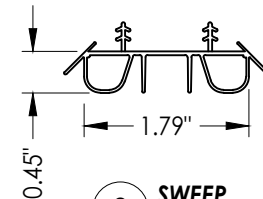
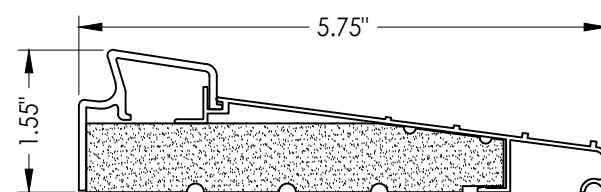
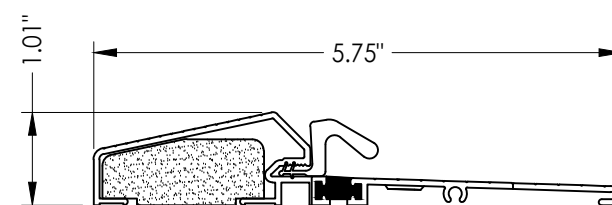
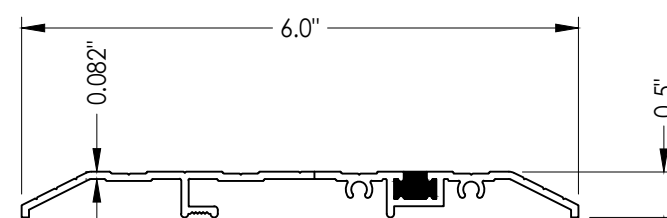
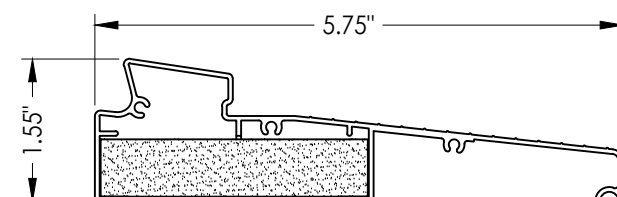
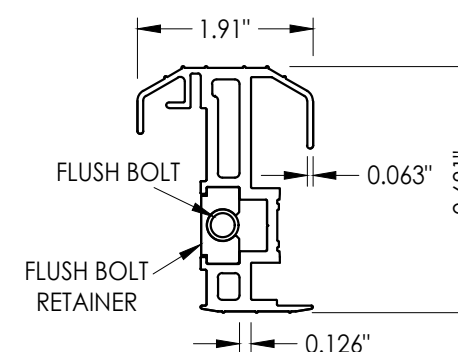
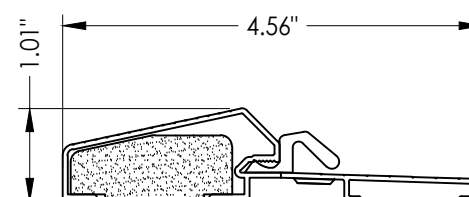
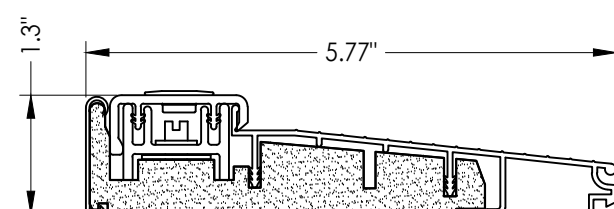
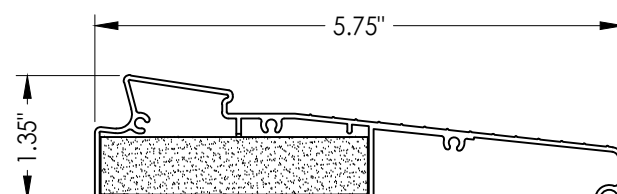
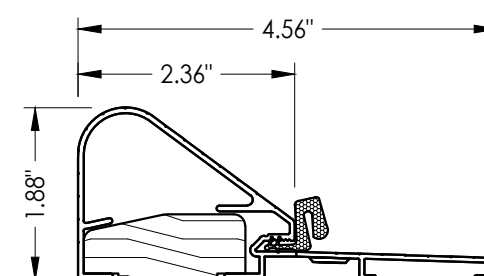
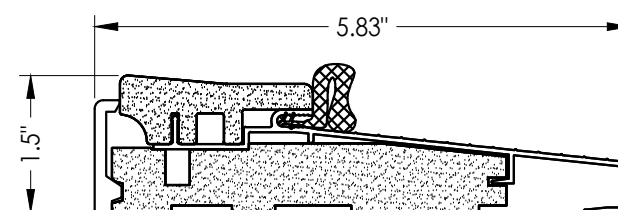
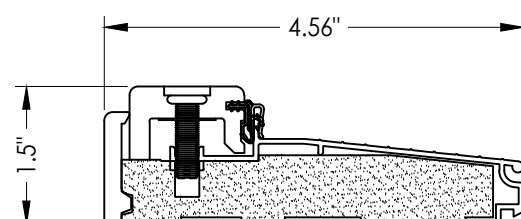
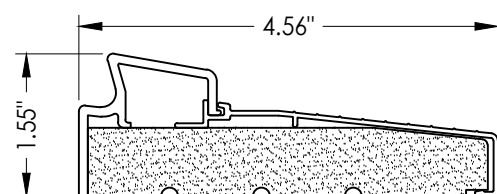
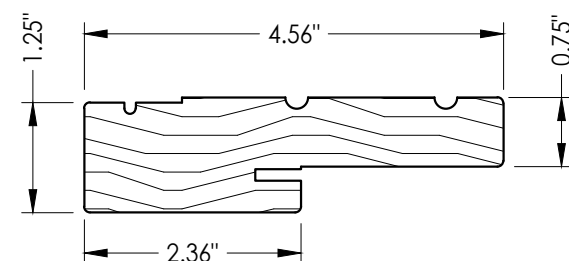
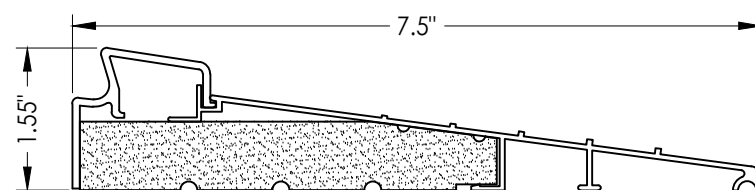
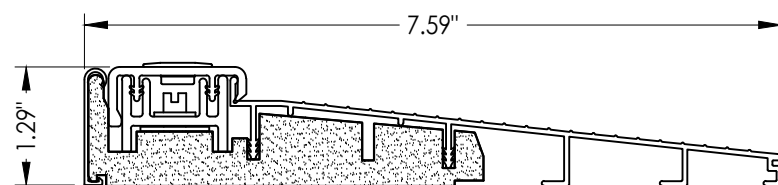
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21142.11

SHEET 12 OF 14

[illegible]

Documents Prepared By:
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Fasteners & connectors in areas within 3000 ft (914 m) of a saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.

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 ULTRACON+	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	AS SHOWN	1-1/2"

1. 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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