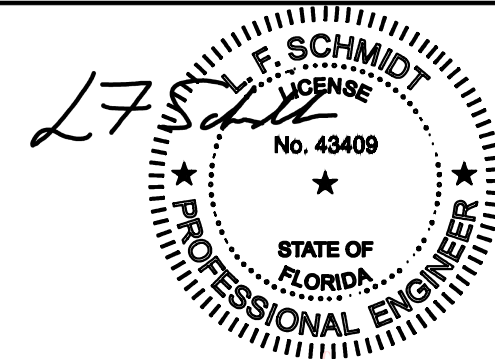




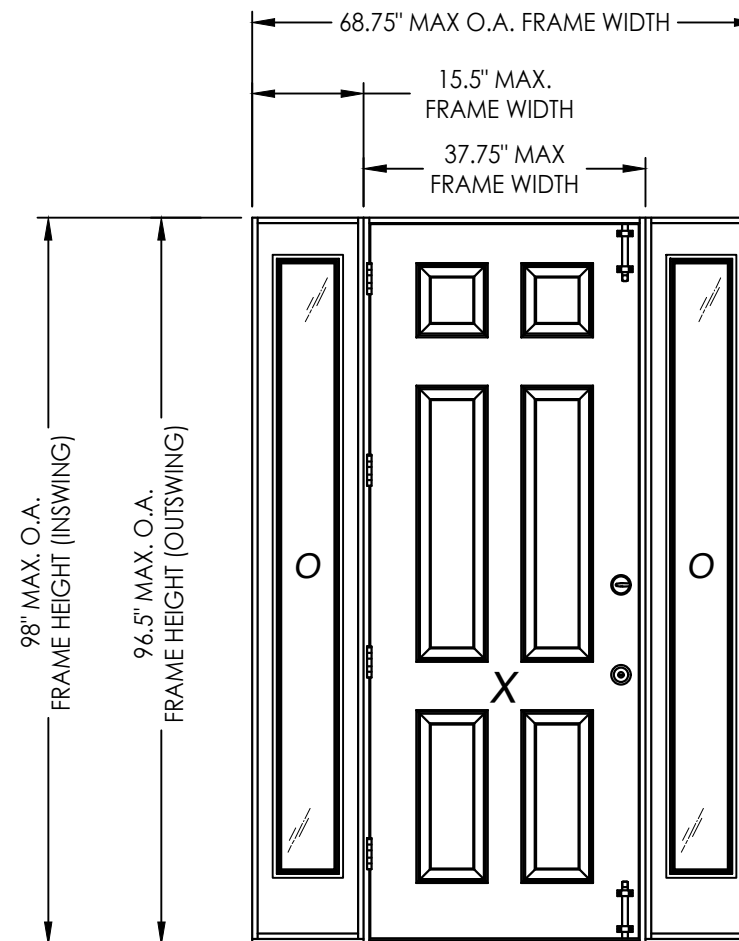
This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

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

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

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 is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2 as follows: Wind Zones 1, 2 & 3: Glazed Sidelites only; Wind Zone 4: Entire System.
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	Door Panel Details
3	Sidelite Panel Details
4	Elevations
5	Horizontal Cross Sections (2X Buck)
6	Vertical Cross Sections (2X Buck)
7	Horizontal & Vertical Cross Sections (1X Buck)
8	Vertical Cross Sections (Thresholds)
9	Vertical Cross Sections @ Surface Bolts
10	Buck Anchoring
11	Frame Anchoring
12	Components
13	Bill of Materials

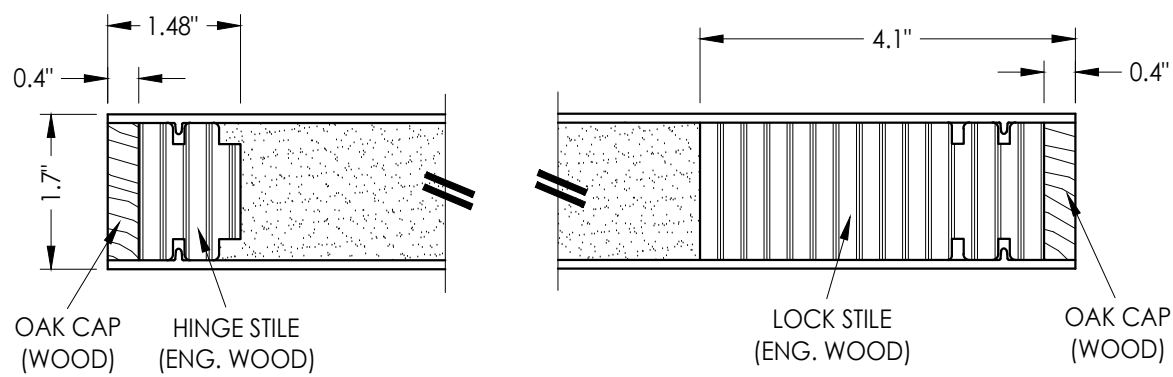


CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
OX, XO, OXO	+60.0	-60.0	+60.0	-60.0

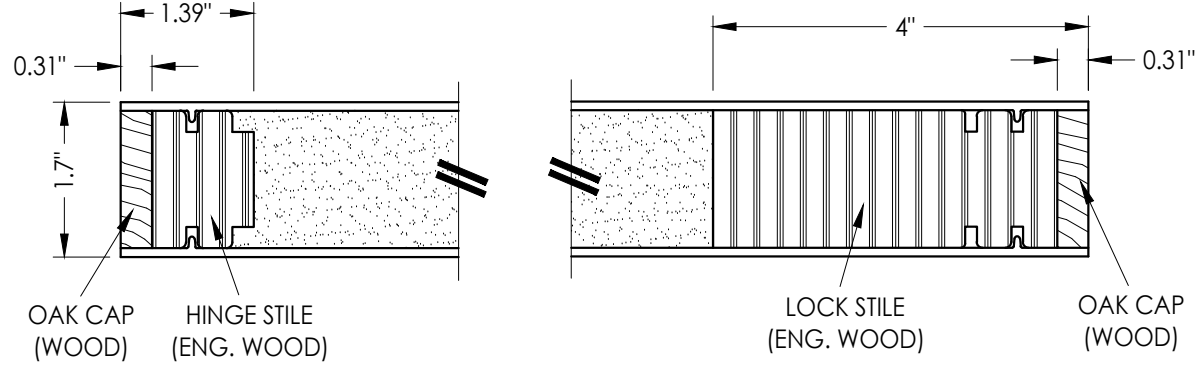
Surface Bolts Required

DATE: 3/25/20		PRODUCT: THERMA-TRU FIBERGLASS DOOR	
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-23955.7		2	8/22/23
SHEET 1 OF 13		1	8/05/20
		NO.	DATE
		REVISIONS	
		PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	

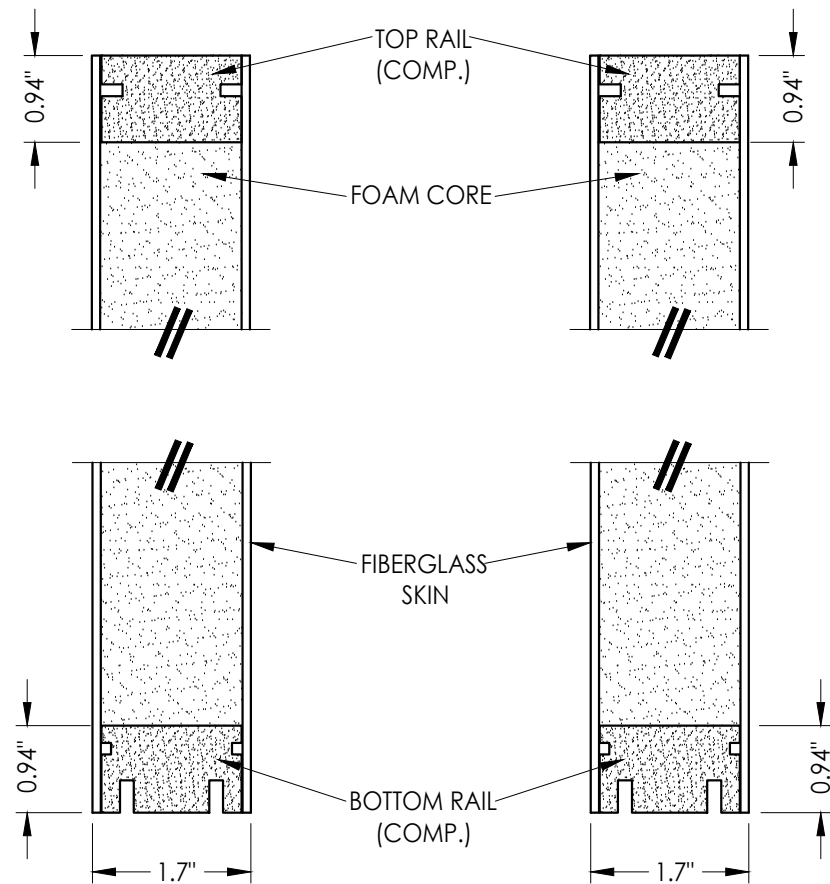
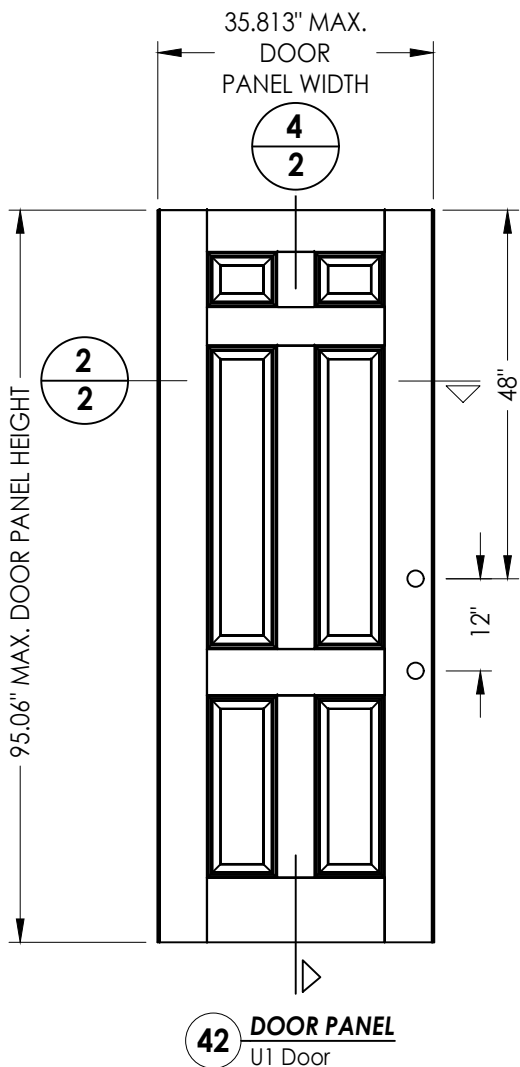
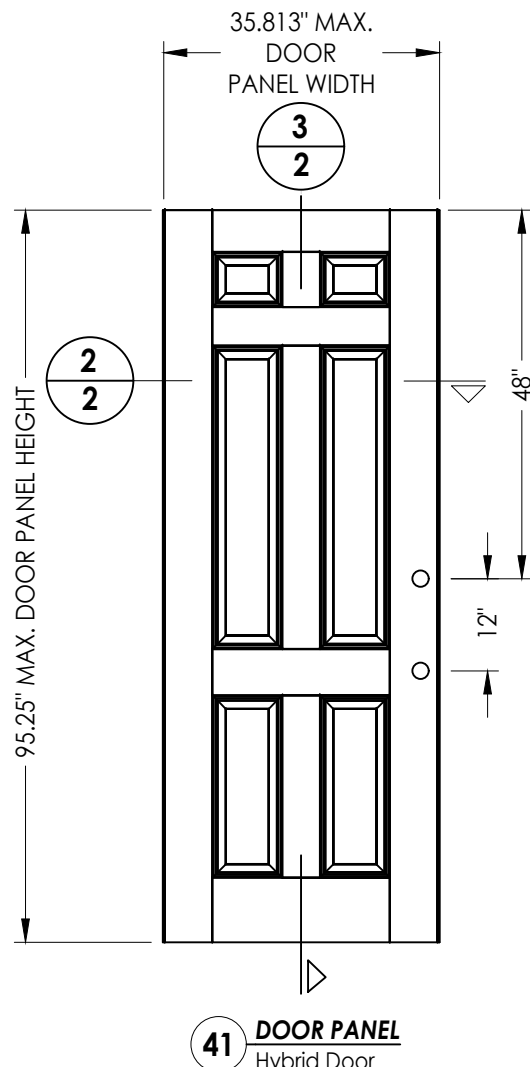
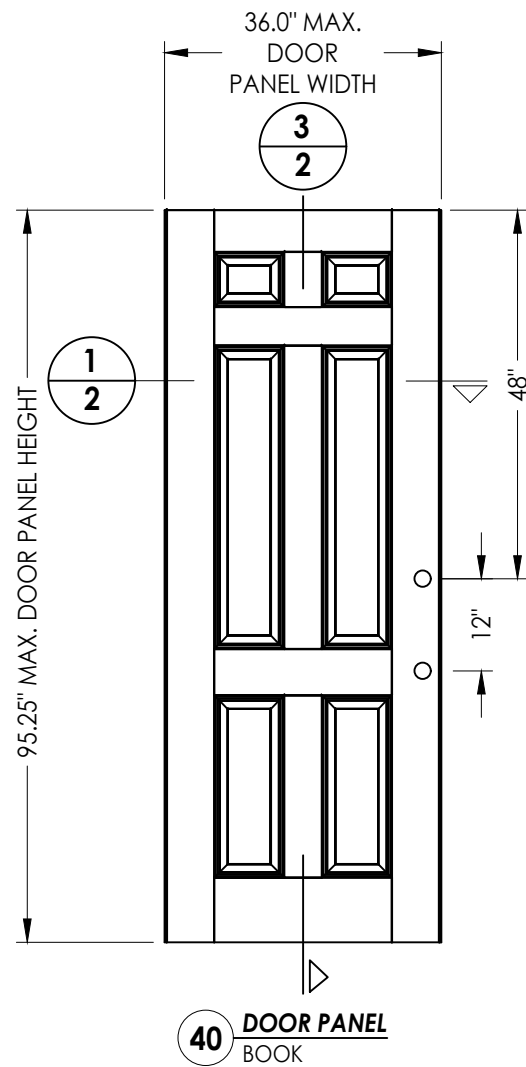
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1
2 **HORIZONTAL CROSS SECTION**



2
2 **HORIZONTAL CROSS SECTION**



3
2 **VERTICAL CROSS SECTION**

4
2 **VERTICAL CROSS SECTION**

"Classic-Craft" SERIES DOOR PANEL

FIBERGLASS DOOR SKIN: 0.125" MIN. THK.

FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)

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

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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
2	8/22/23	UPDATE TO 8TH ED. (2023) FBC
1	8/05/20	UPDATE TO 7TH ED (2020) FBC
		BY

DATE: 3/25/20

SCALE: N.T.S.

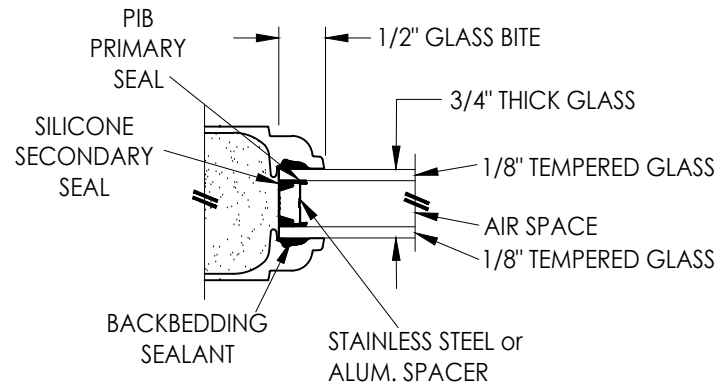
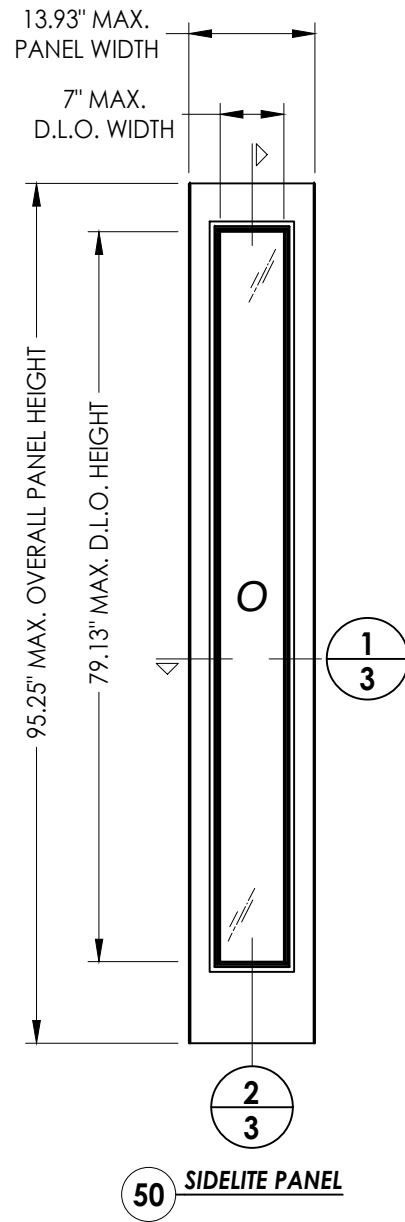
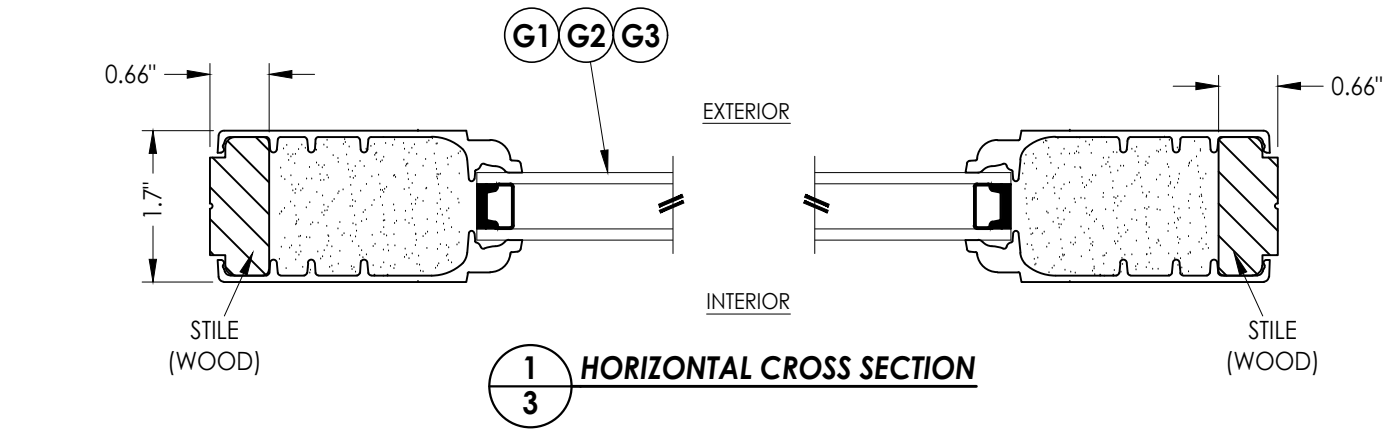
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CHK. BY: LFS

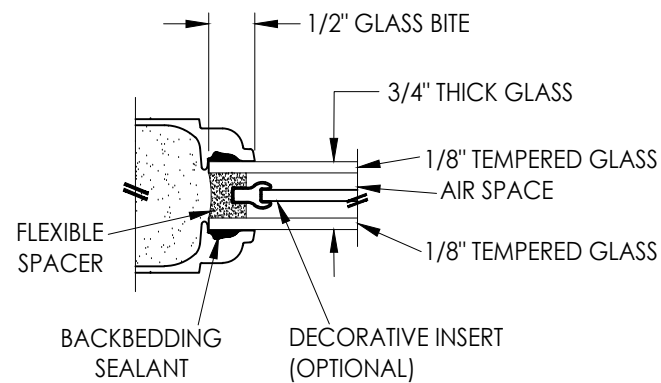
DRAWING NO.:

FL-23955.7

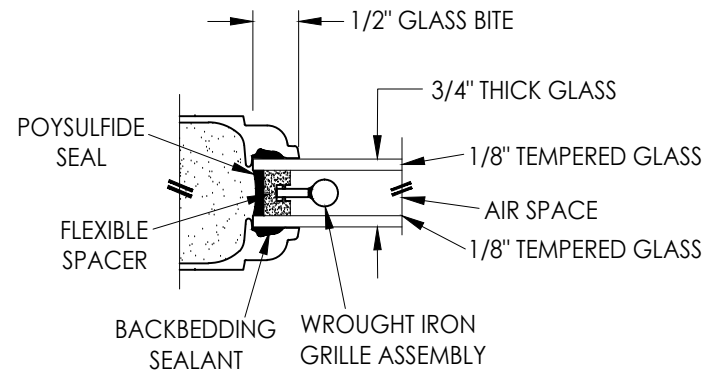
SHEET 2 OF 13



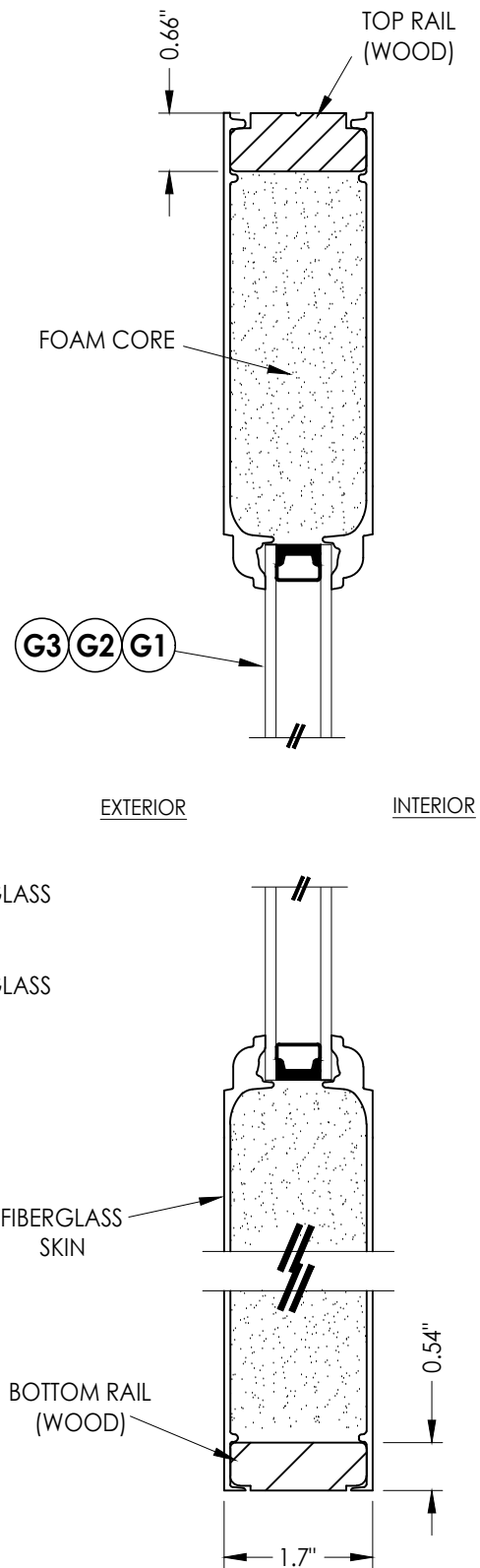
G1 **GLAZING DETAIL**
Flush Glazed



G2 GLAZING DETAIL
Flush Glazed
Decorative



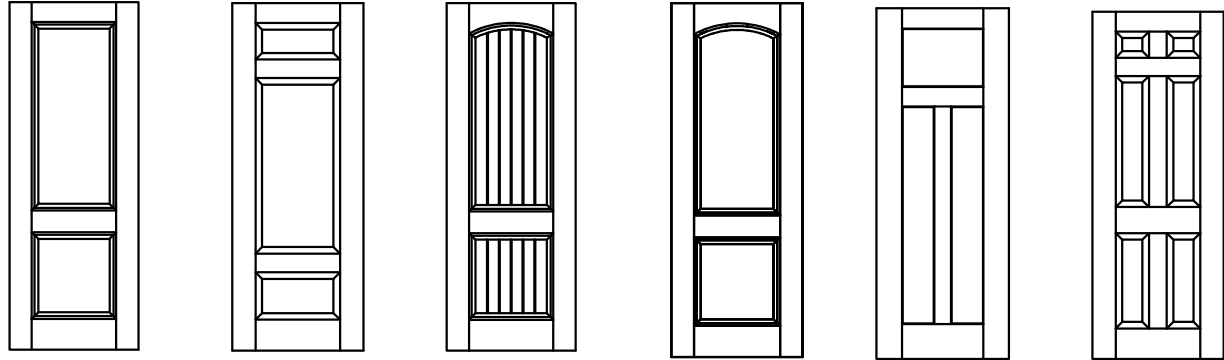
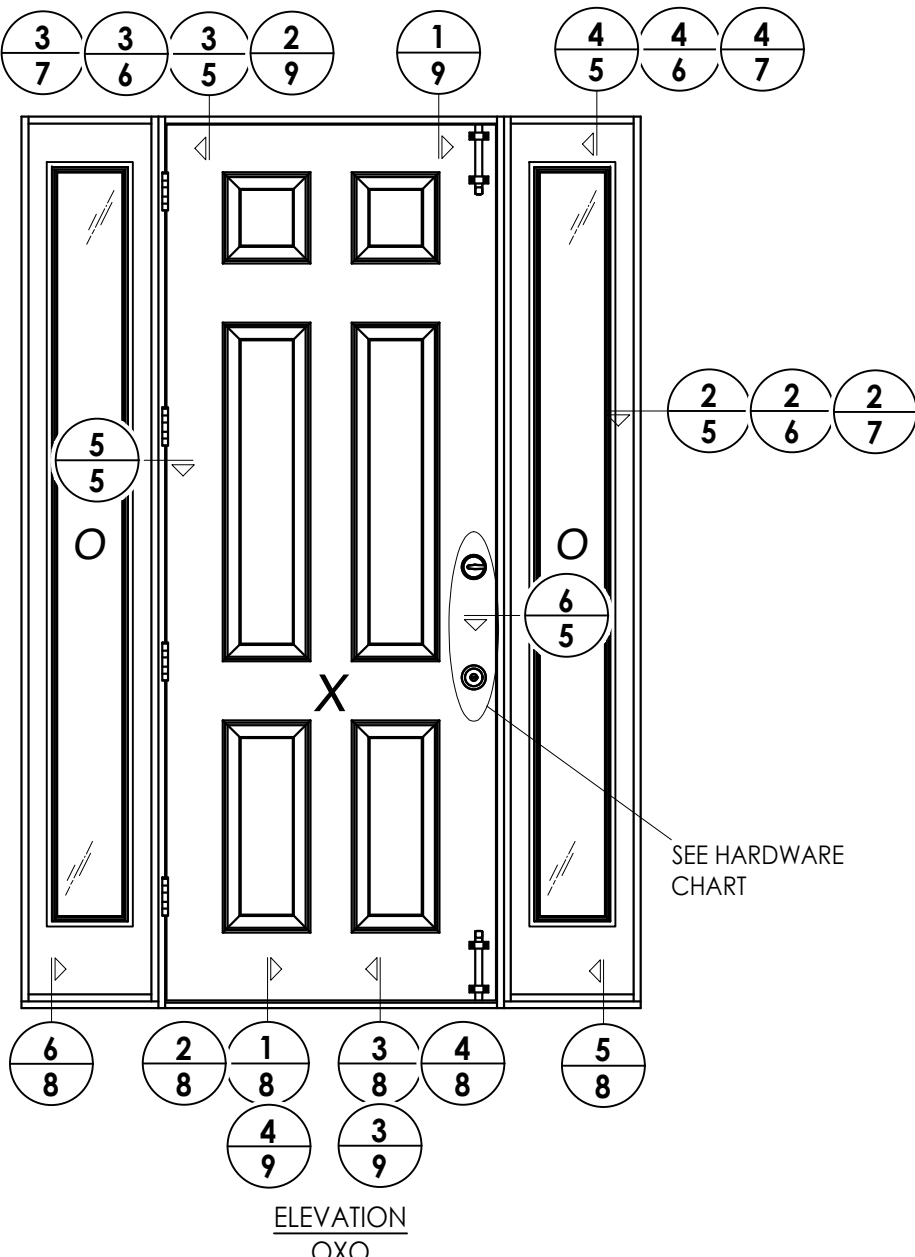
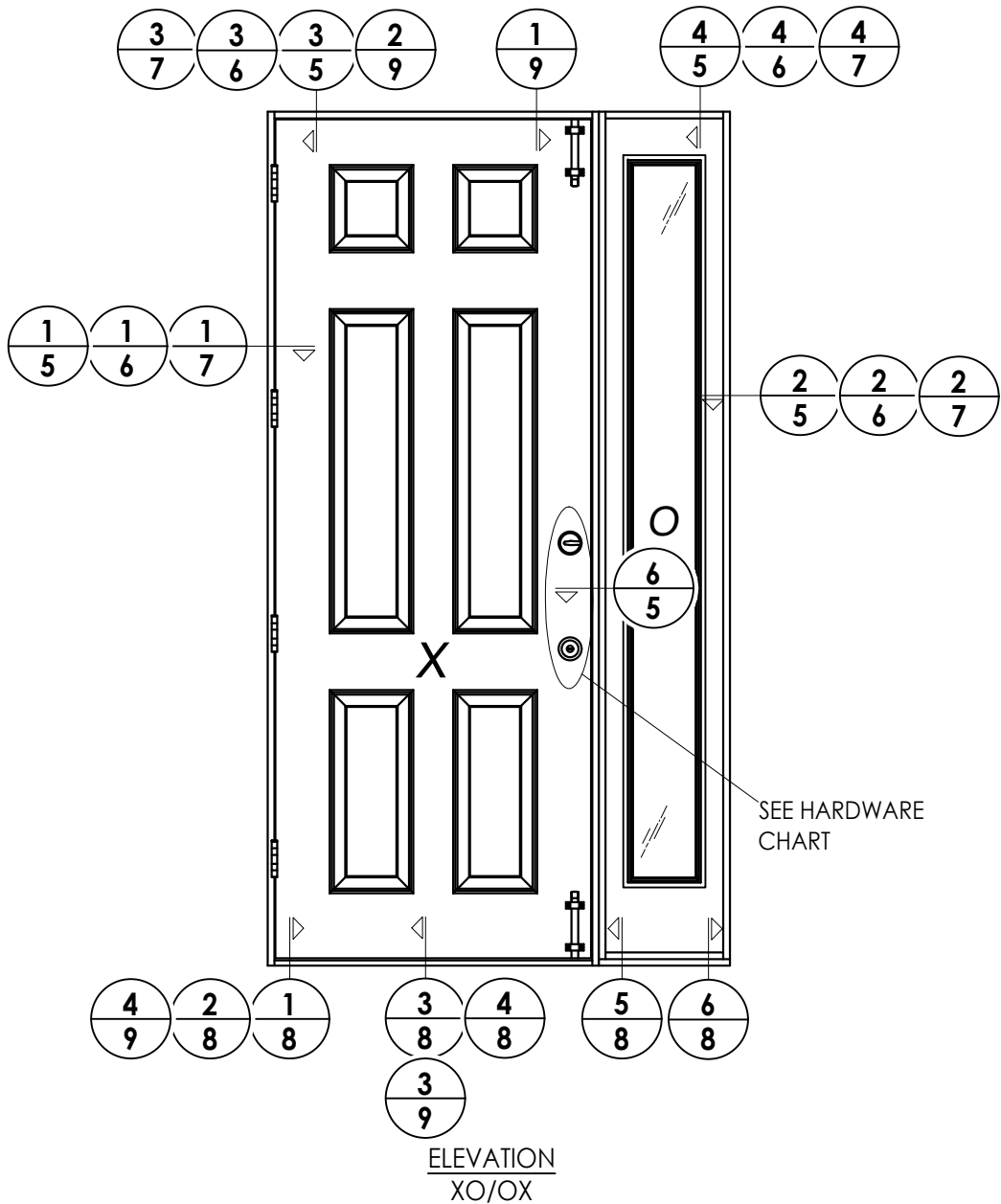
G3 GLAZING DETAIL
Flush Glazed
Wrought Iron



2 VERTICAL CROSS SECTION

[illegible]

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Classic-Craft Door Panel Options
Panel options shown are for illustration and are representative only
(similar opaque panel configurations are allowed)

HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (780)

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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS

DATE: 3/25/20

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: FL-23955.7

SHEET 4 OF 13

2 8/22/23 UPDATE TO 8TH ED. (2023) FBC LFS

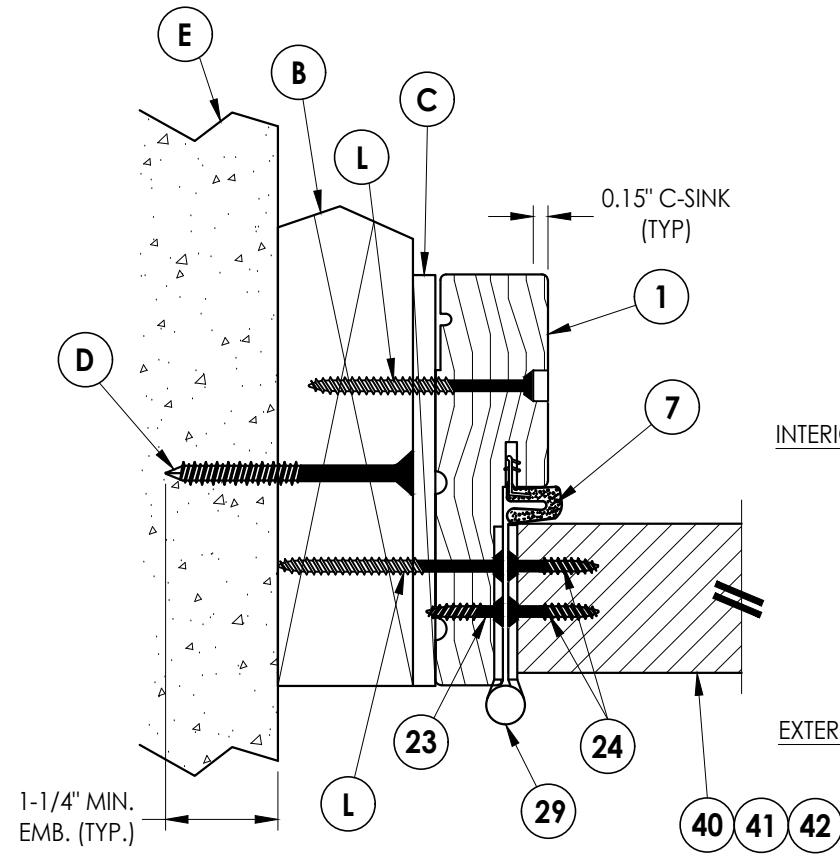
1 8/05/20 UPDATE TO 7th ED. (2020) FBC LFS

NO. DATE BY

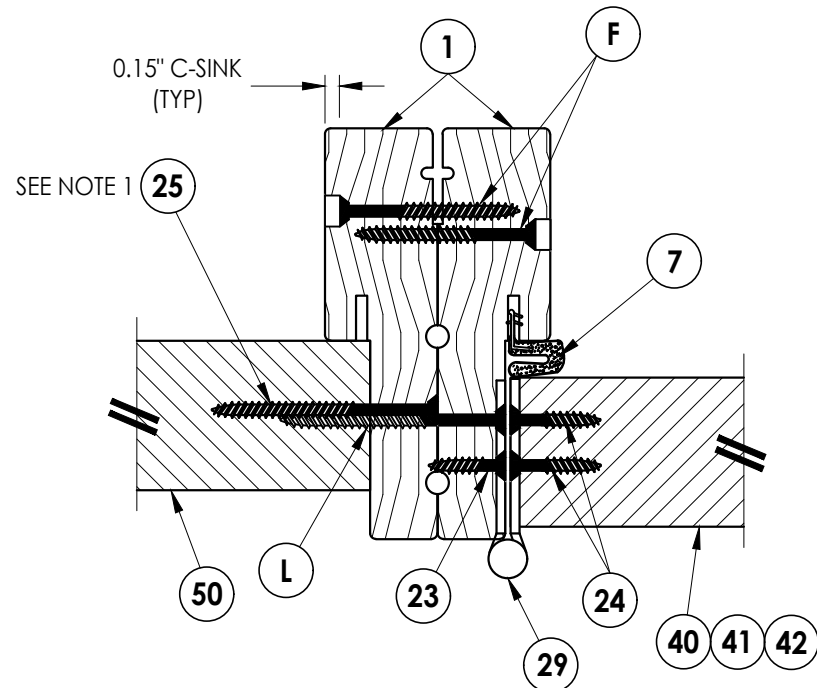
REVISIONS

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

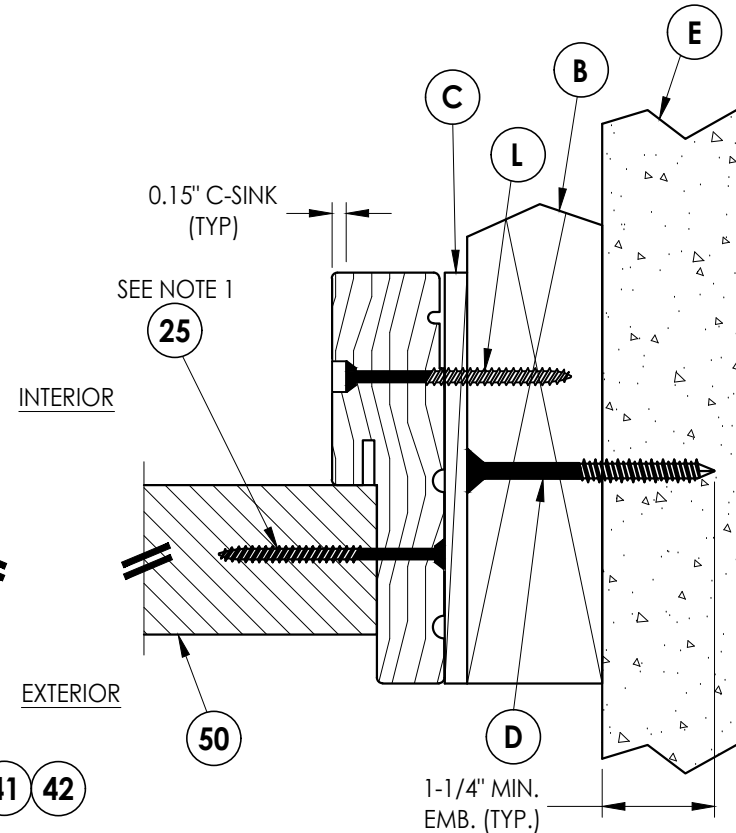
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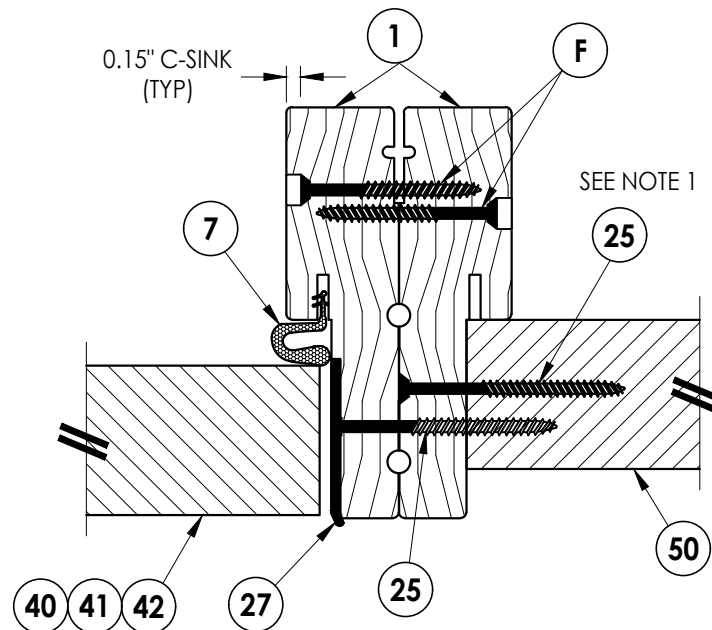
1 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)



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



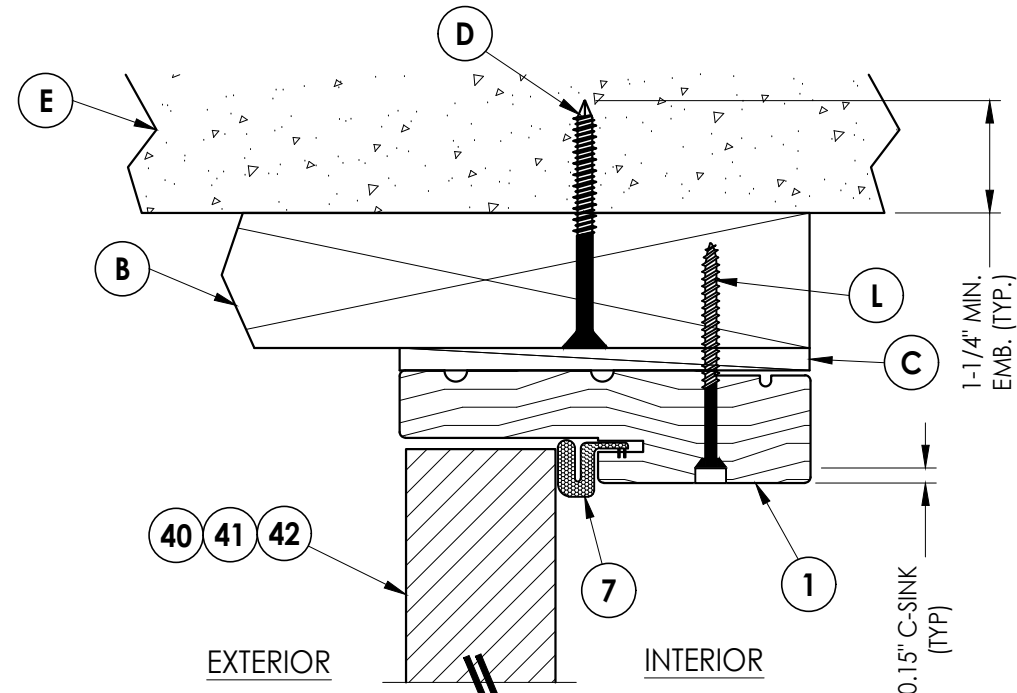
2 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)



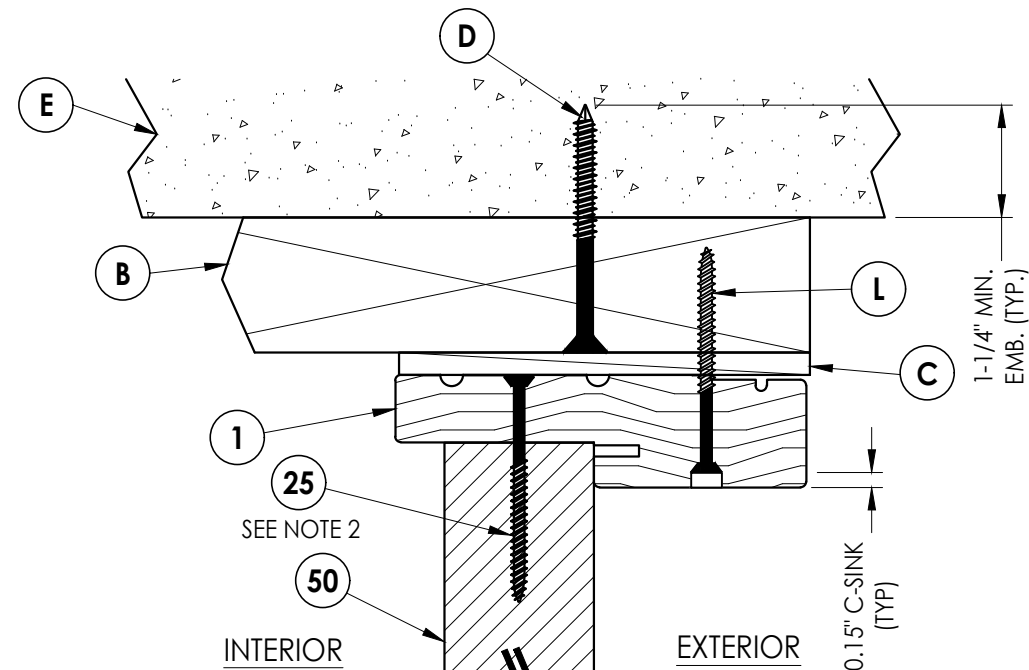
6 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)

Notes:

1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).



3 **VERTICAL CROSS SECTION**
5 Outswing shown (Inswing similar)



4 **VERTICAL CROSS SECTION**
5 Outswing shown (Inswing similar)

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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 (2X BUCK)

DATE: 3/25/20

SCALE: N.T.S.

DWG. BY: RW

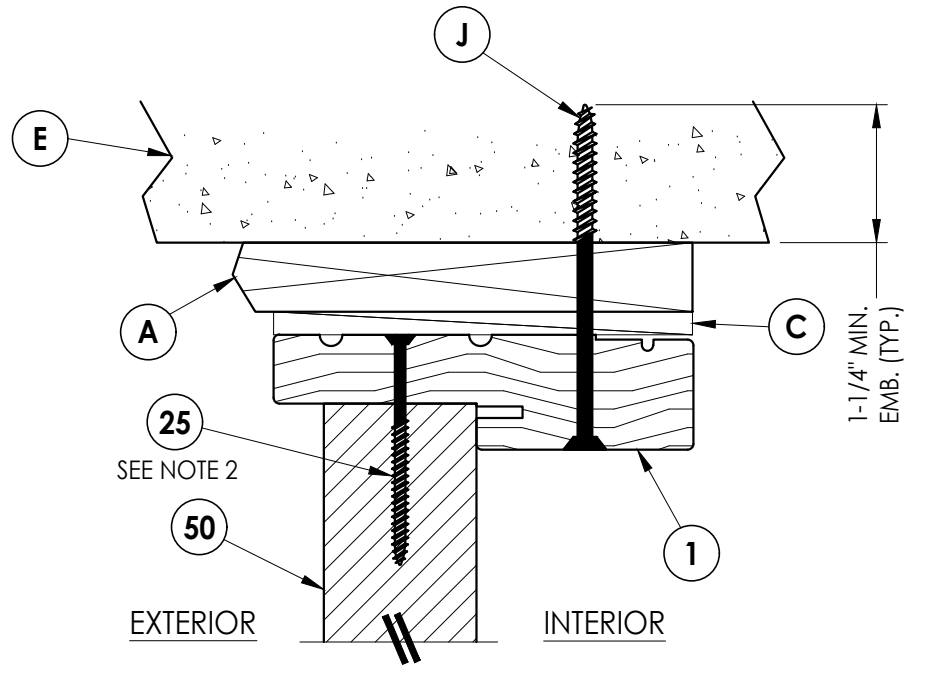
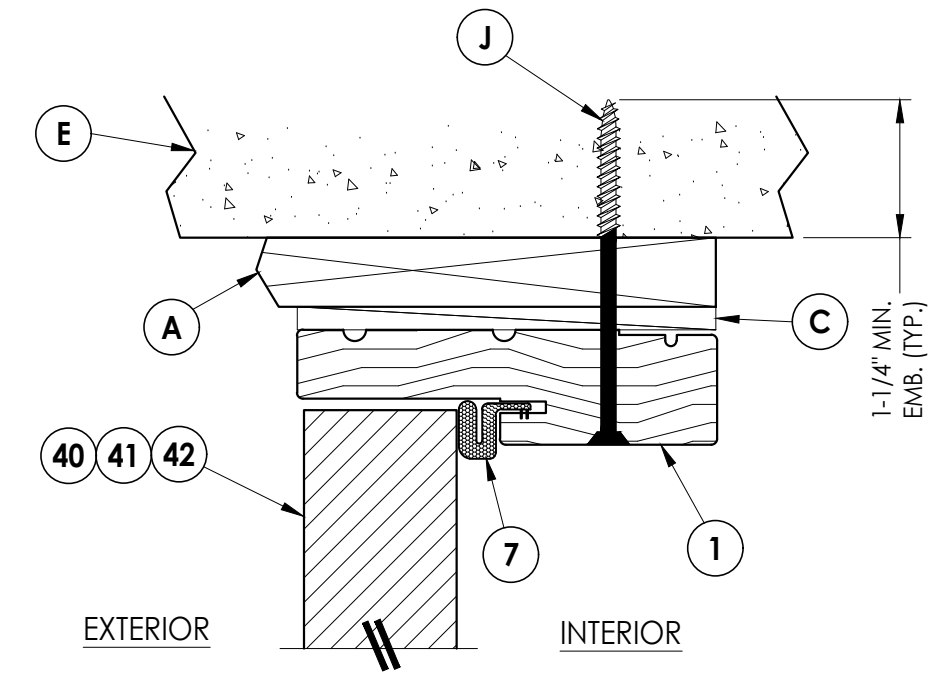
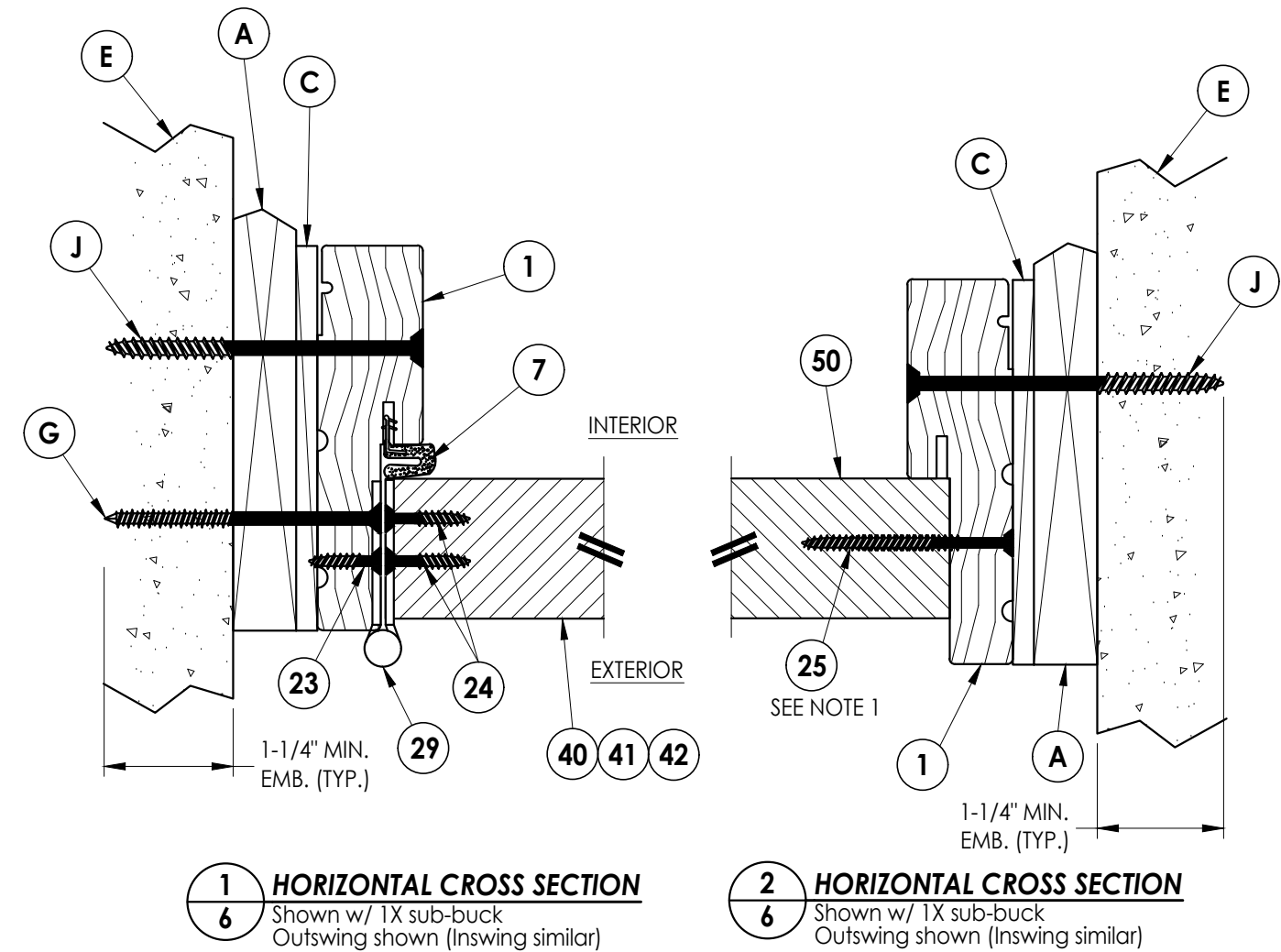
CHK. BY: LFS

DRAWING NO.: FL-23955.7

SHEET 5 OF 13

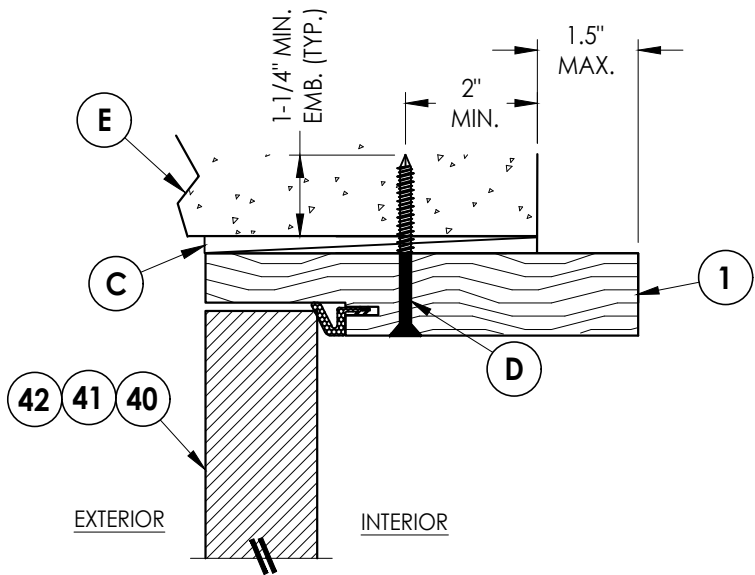
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- Notes:
- Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
 - Sidelite assembly screws located 4" from each end (2 screws along head jamb).

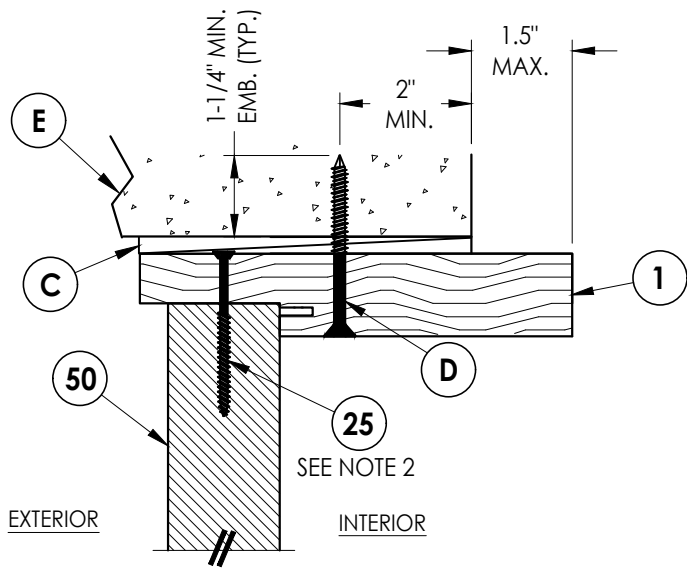


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)	
		NO.	DATE
2	8/22/23	UPDATE TO 8TH ED. (2023)	FBC
1	8/05/20	UPDATE TO 7th ED (2020)	FBC
		BY	
REVISIONS			
DATE: 3/25/20			
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-23955.7			
SHEET 6 OF 13			

Z:\2023 FBC Drawings\Therma-Tru\FL-23955 R3\FL-23955.7-8.dwg



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

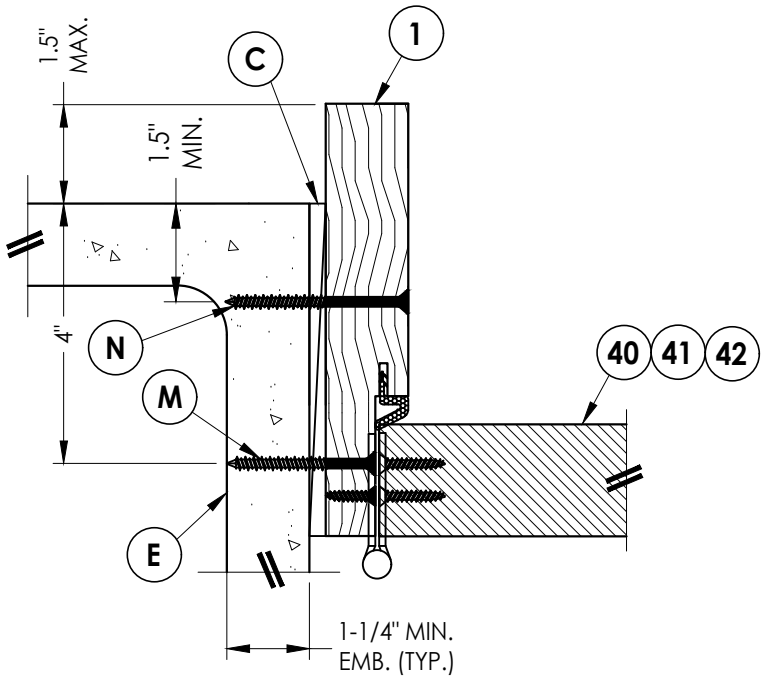


3 **VERTICAL CROSS SECTION**
7 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

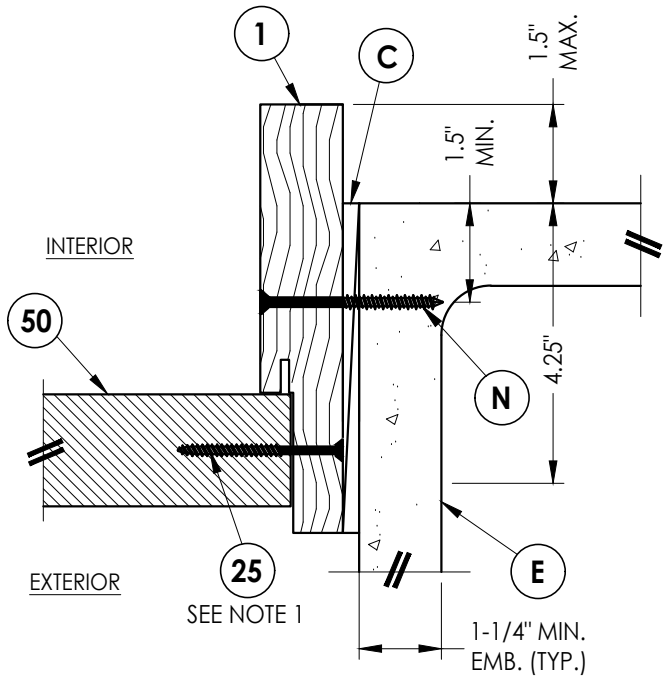
Notes:

1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).

DIRECT TO MASONRY MAX. DESIGN PRESSURE:
± 47 PSF



1 **HORIZONTAL CROSS SECTION**
7 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

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
SECTIONS (DIRECT TO MASONRY)

NO.	DATE	REVISIONS
2	8/22/23	UPDATE TO 8TH ED. (2023) FBC
1	8/05/20	UPDATE TO 7th ED (2020) FBC

DATE: 3/25/20

SCALE: N.T.S.

DWG. BY: RW

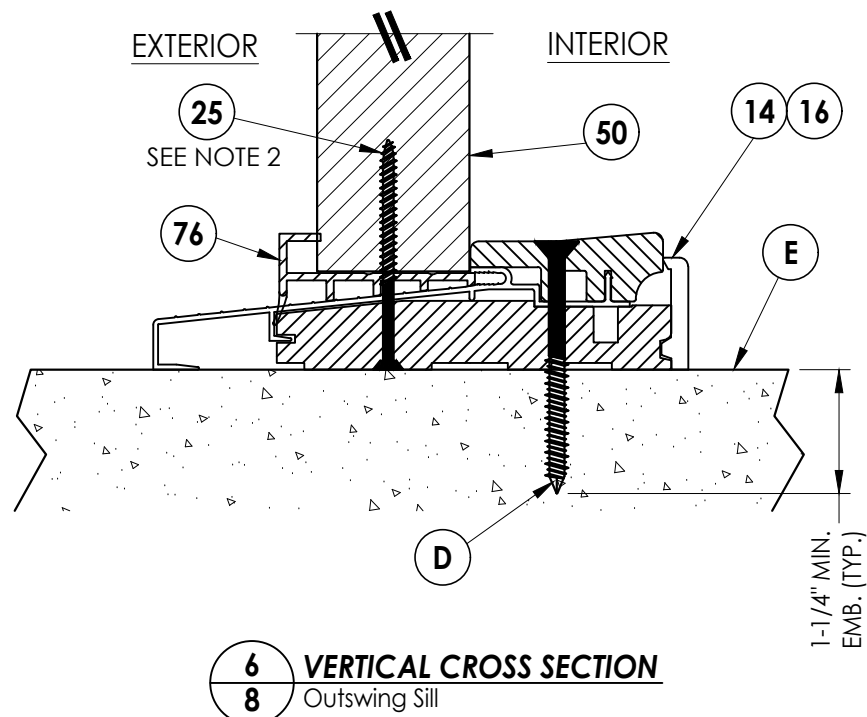
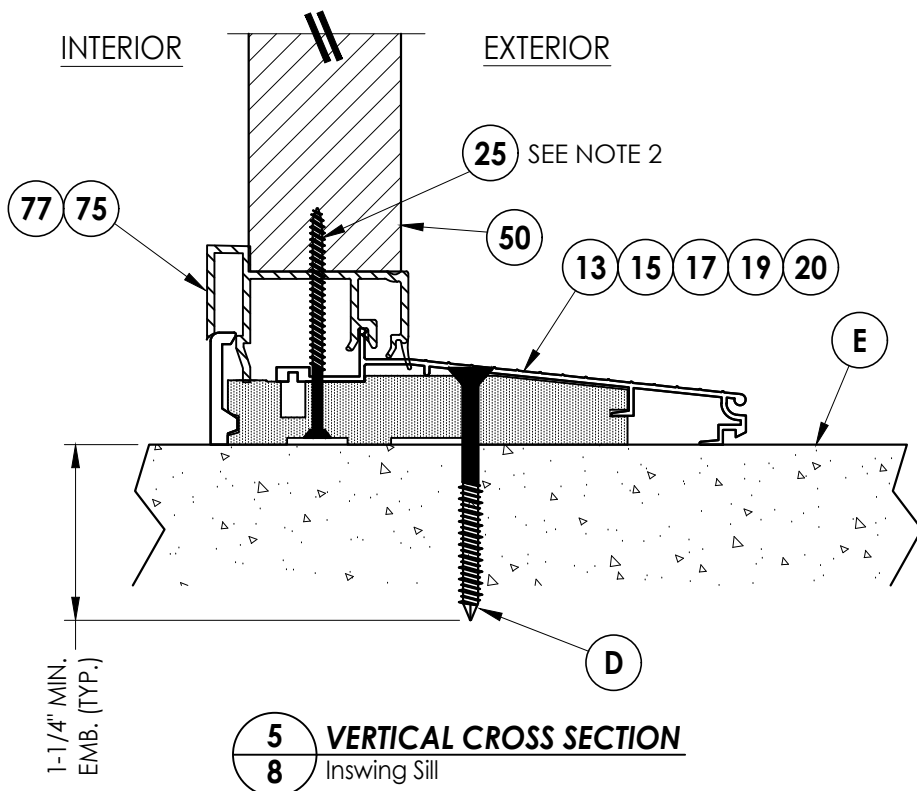
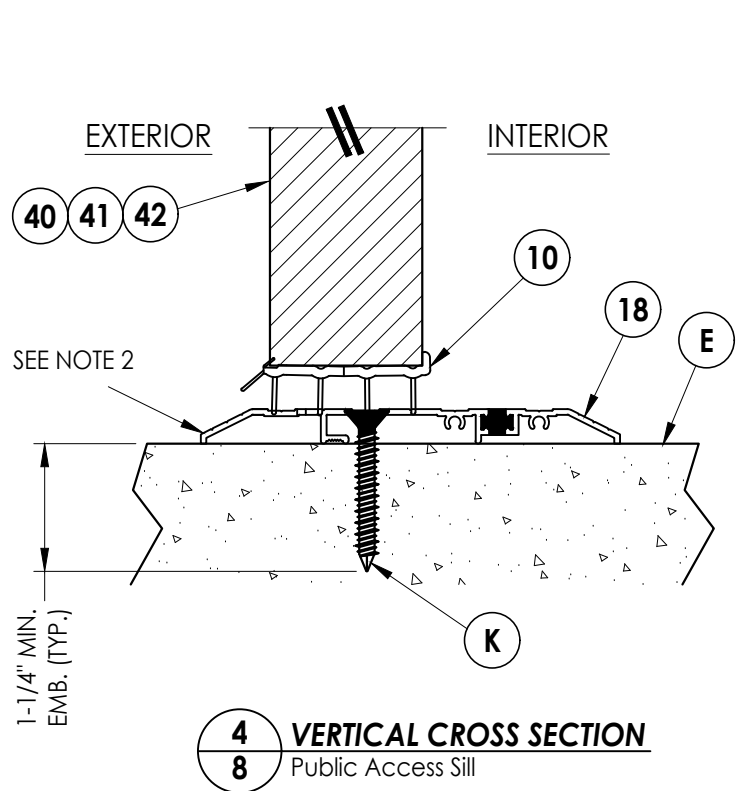
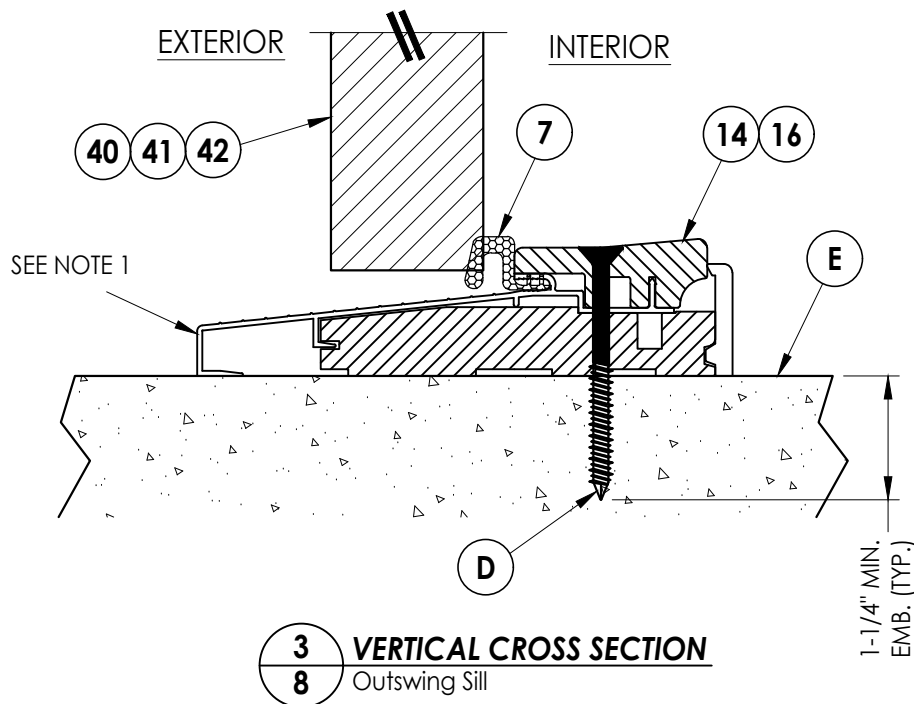
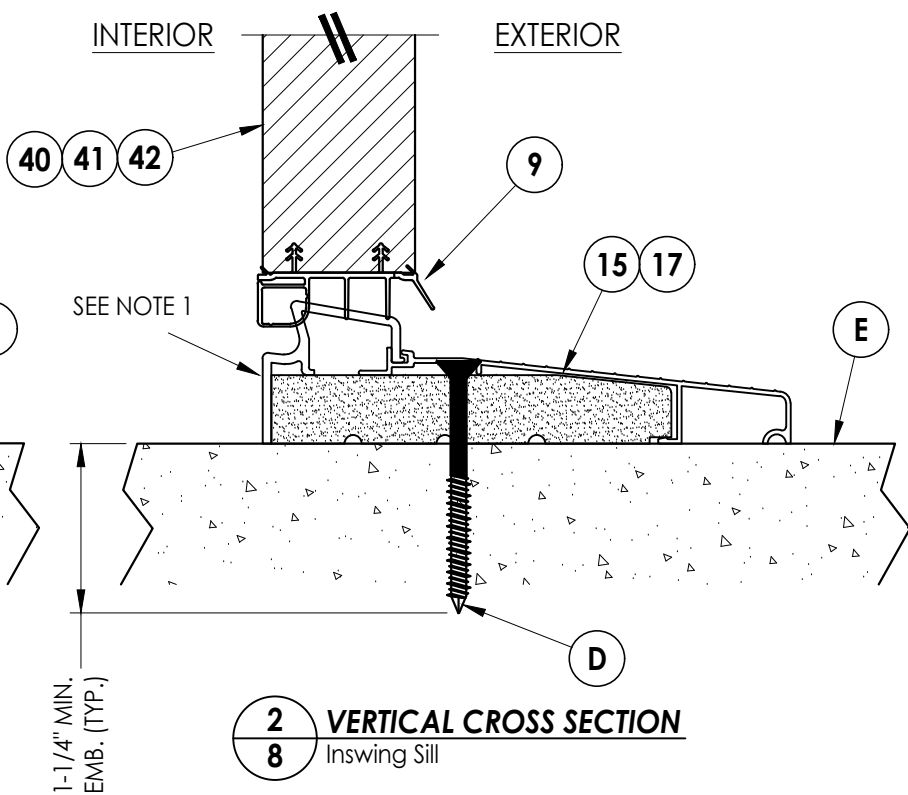
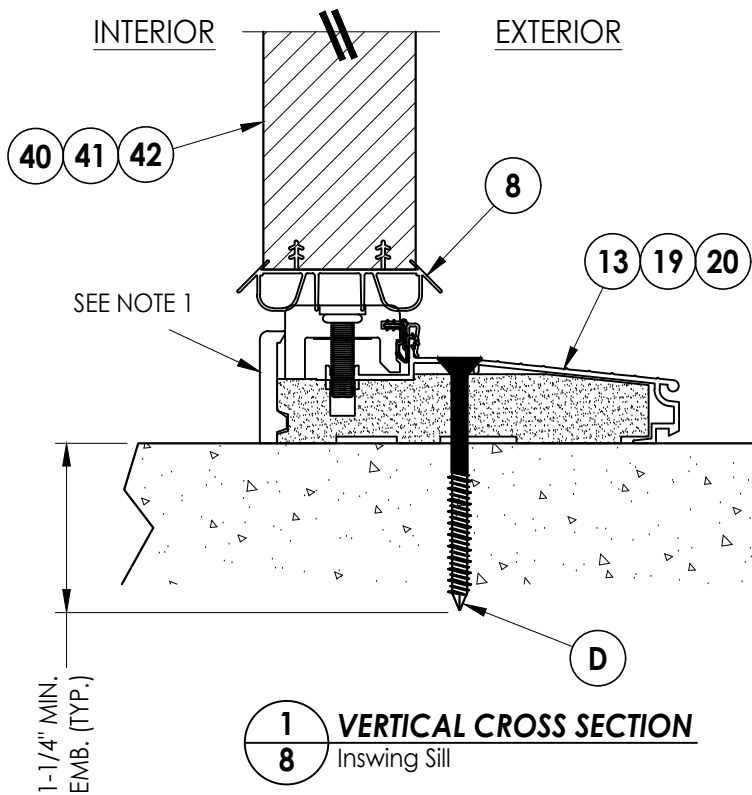
CHK. BY: LFS

DRAWING NO.:
FL-23955.7

SHEET 7 OF 13

Z:\2023 FBC Drawings\Therma-Tru\FL-23955 R3\FL-23955.7-8.dwg

- Notes:
- Sill Item #'s 13, 16, 17, 19 & 20 are attached to jambs w/ (3) #8 X 2-1/2" pph screws at each end.
Sill Item #'s 14 & 15 are attached to jambs w/ (2) #8 X 2-1/2" pph screws at each end.
Sill Item # 18 is attached to jambs utilizing (4) #10 X 1-1/2" pph screws at each end.
 - Sidelite assembly screws located 4" from each end (2 screws total along sill).



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

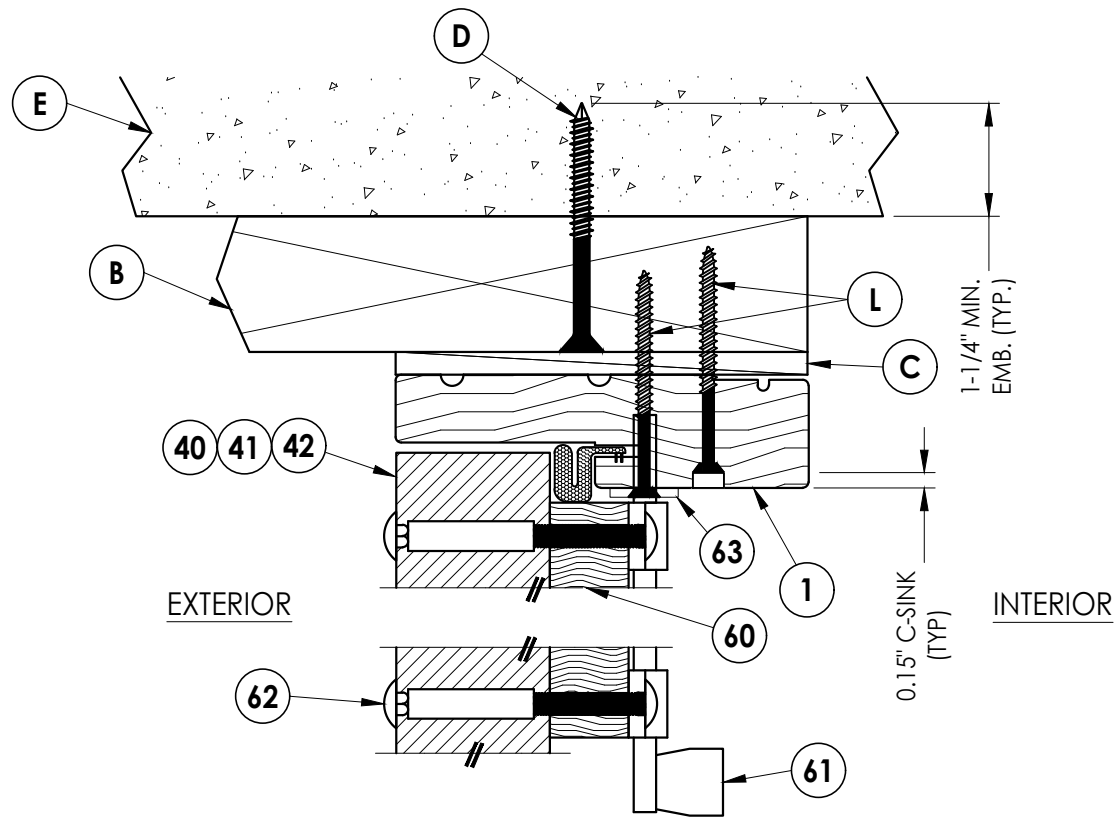
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

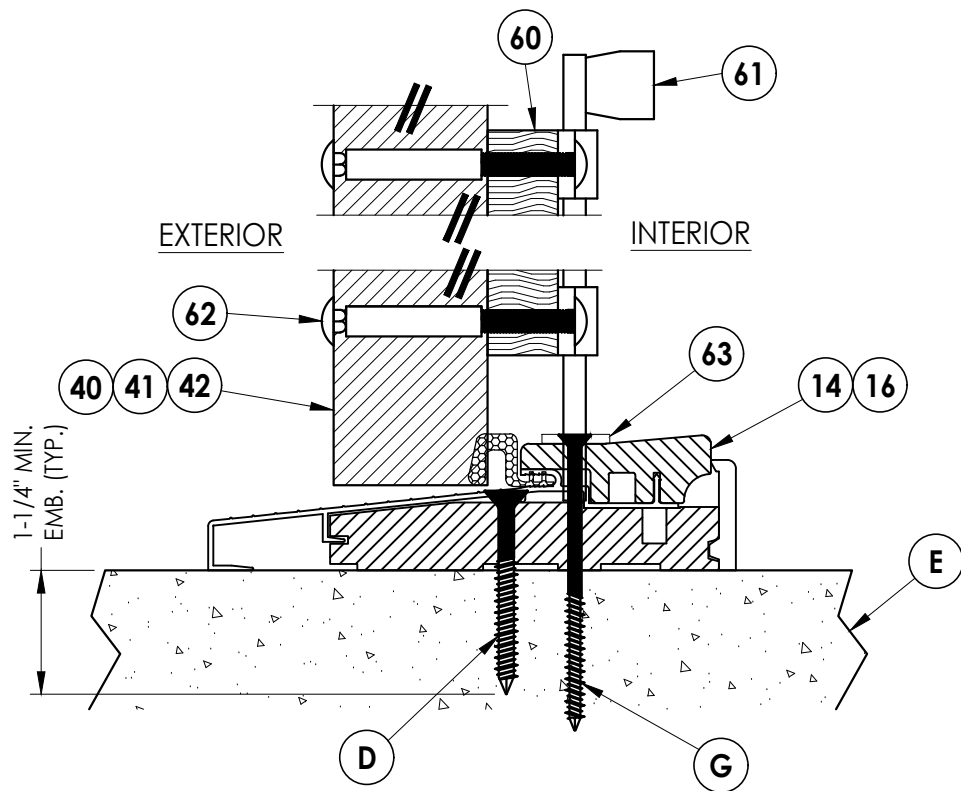
PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS		
		BY	DATE	DESCRIPTION
2	8/22/23	LFS	UPDATE TO 8TH ED. (2023)	FBC
1	8/05/20	LFS	UPDATE TO 7th ED (2020)	FBC
DATE: 3/25/20				
SCALE: N.T.S.				
DWG. BY: RW				
CHK. BY: LFS				
DRAWING NO.: FL-23955.7				
SHEET 8 OF 13				

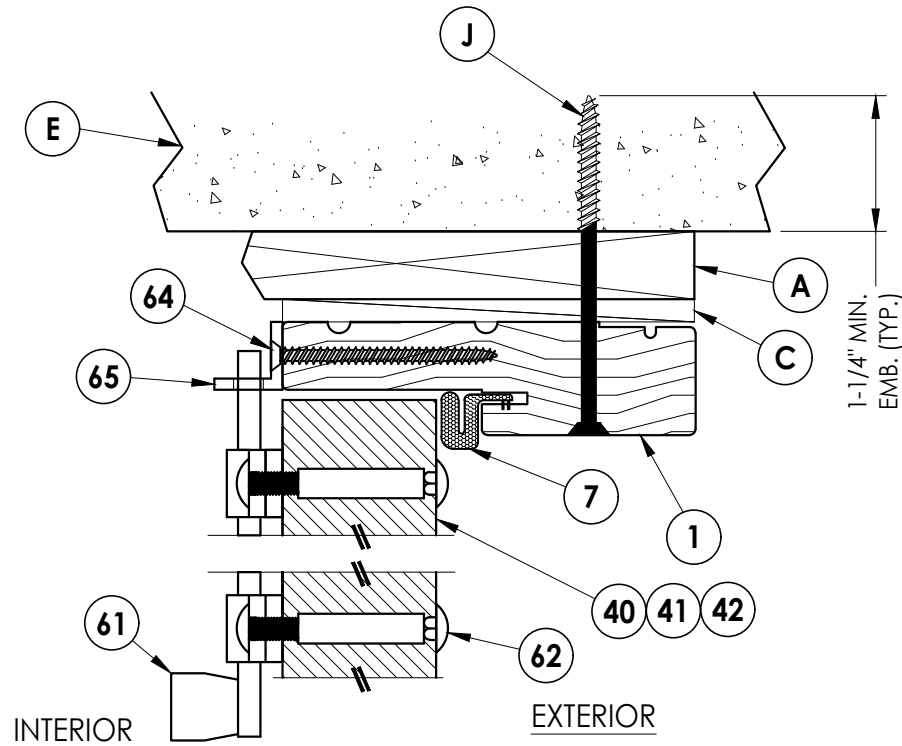
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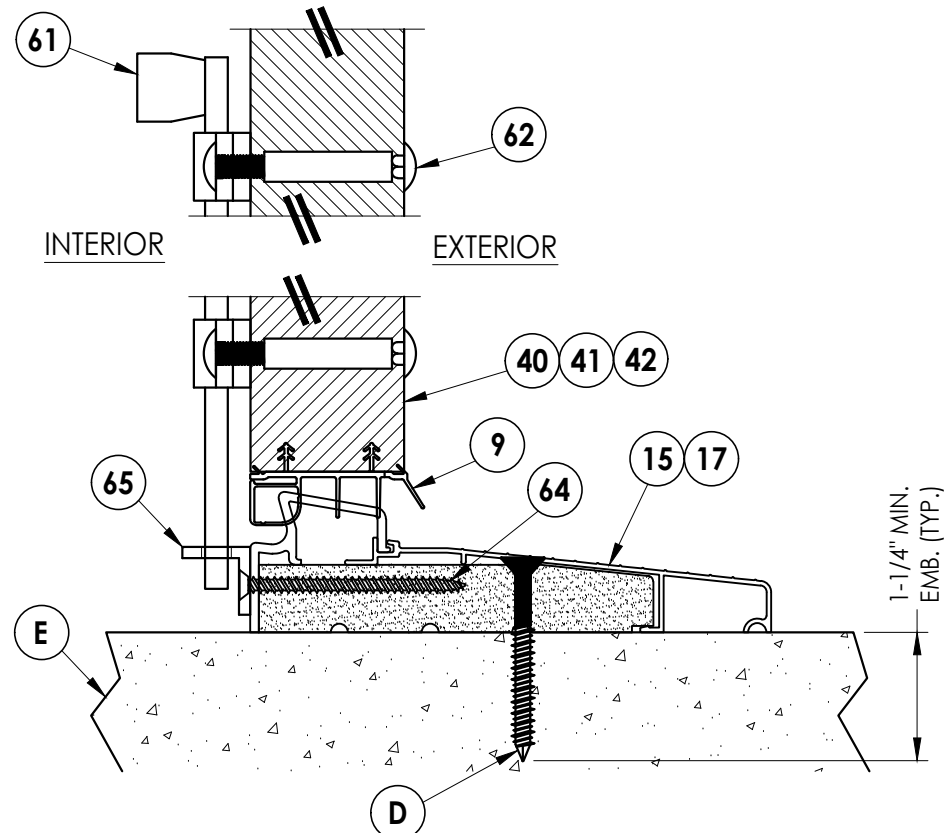
1 VERTICAL CROSS SECTION
9 Surface Bolt - Outswing shown
Shown w/ 2X Buck



3 VERTICAL CROSS SECTION
9 Surface Bolt - Outswing Threshold



2 VERTICAL CROSS SECTION
9 Surface Bolt - Inswing shown
Shown w/ 1X sub-buck



4 VERTICAL CROSS SECTION
9 Surface Bolt - Inswing Threshold

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

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

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS @ SURFACE BOLTS

NO.	DATE	REVISIONS		
		BY	DATE	DESCRIPTION
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1	8/05/20	LFS	2020	UPDATE TO 7th ED (2020) FBC

DATE: 3/25/20

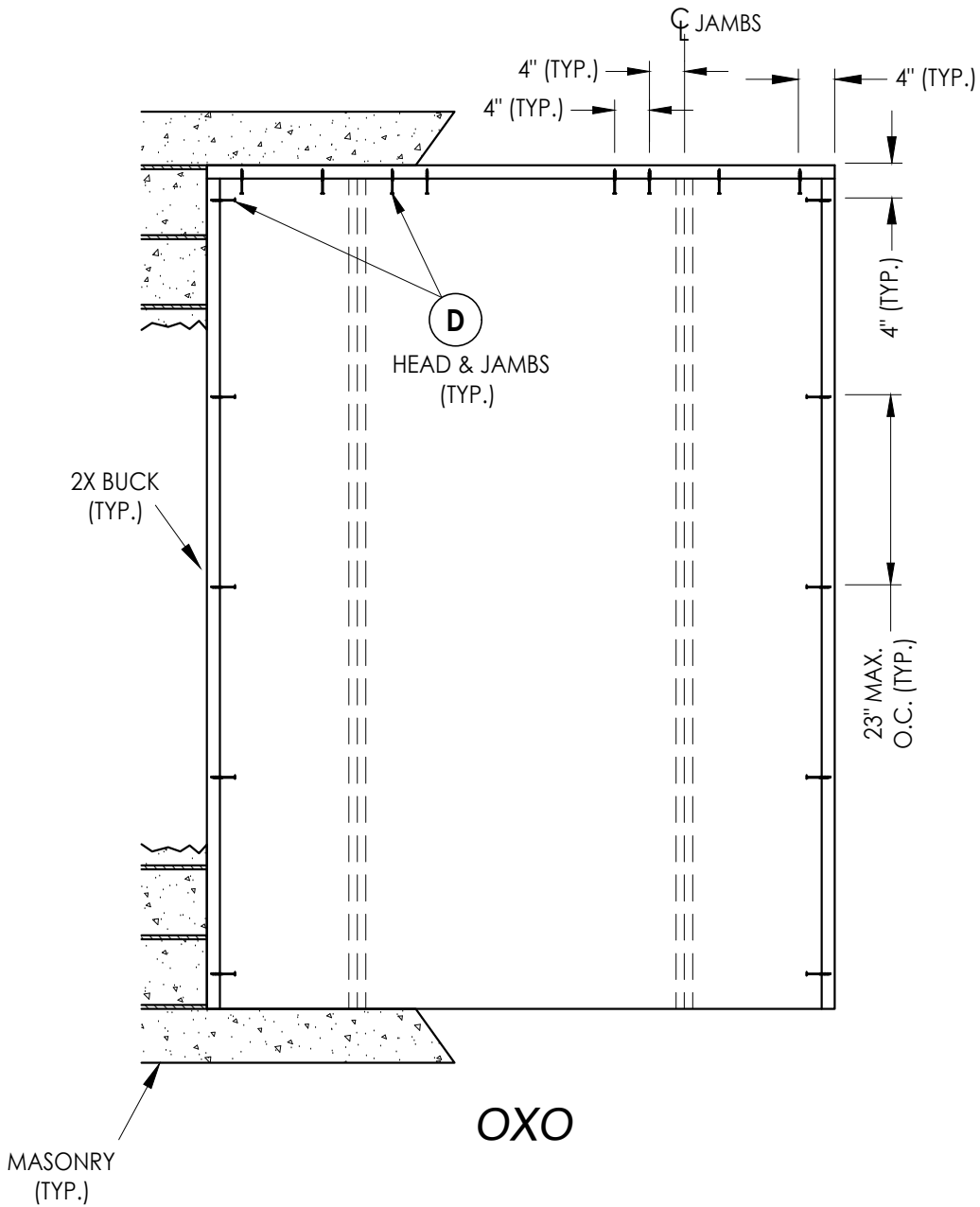
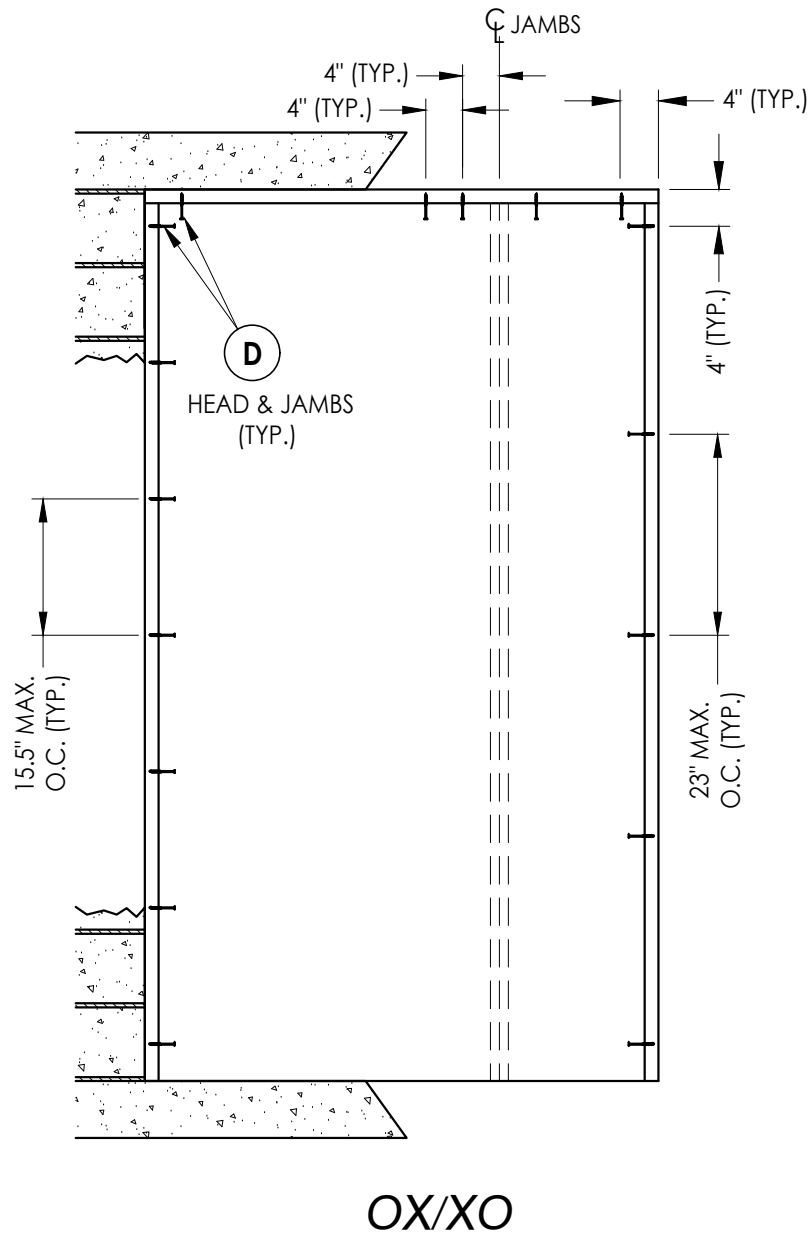
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DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: FL-23955.7

SHEET 9 OF 13

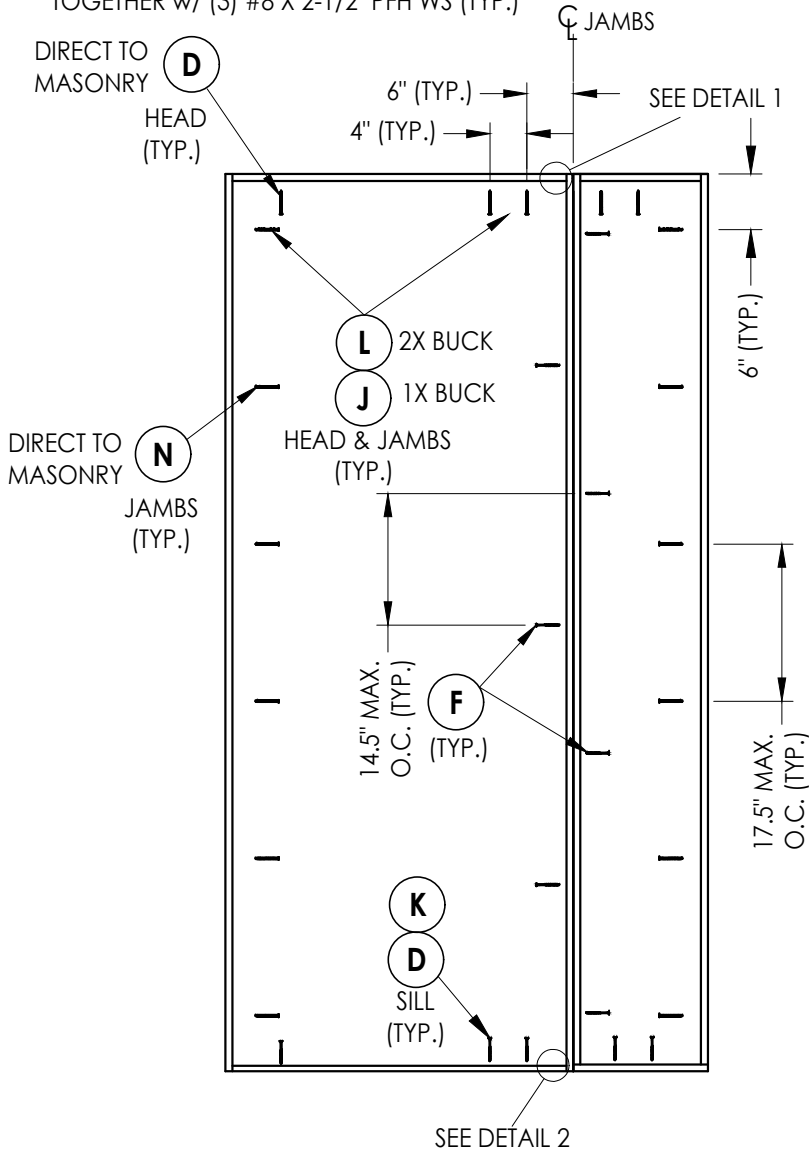


2X BUCK ANCHORING

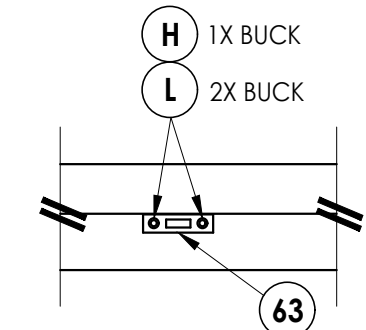
DATE: 3/25/20				DOCUMENTS PREPARED BY: Lyndon F. Schmidt P.E. No. 43409			
SCALE: N.T.S.				RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
DWG. BY: RW							
CHK. BY: LFS				PRODUCT: THERMA-TRU FIBERGLASS DOOR			
DRAWING NO.: FL-23955.7				PART OR ASSEMBLY: BUCK ANCHORING			
SHEET 10 OF 13				REVISIONS			
2	8/22/23	UPDATE TO 8TH ED. (2023)		FBC	LFS		
1	8/05/20	UPDATE TO 7th ED (2020)		FBC	LFS		
NO.	DATE				BY		

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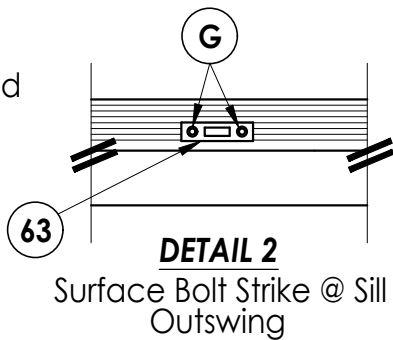
*NOTE: FRAME CORNERS @ HEAD ATTACHED TOGETHER W/ (3) #8 X 2-1/2" PFH WS (TYP.)



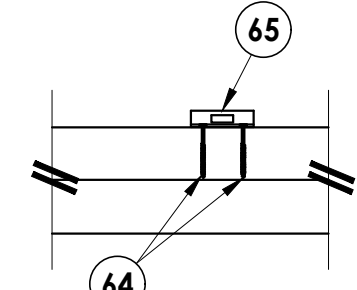
FRAME ANCHORING



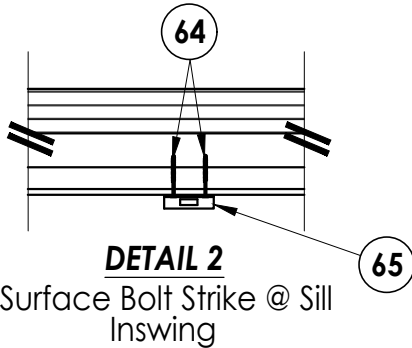
DETAIL 1
Surface Bolt Strike @ Head Outswing



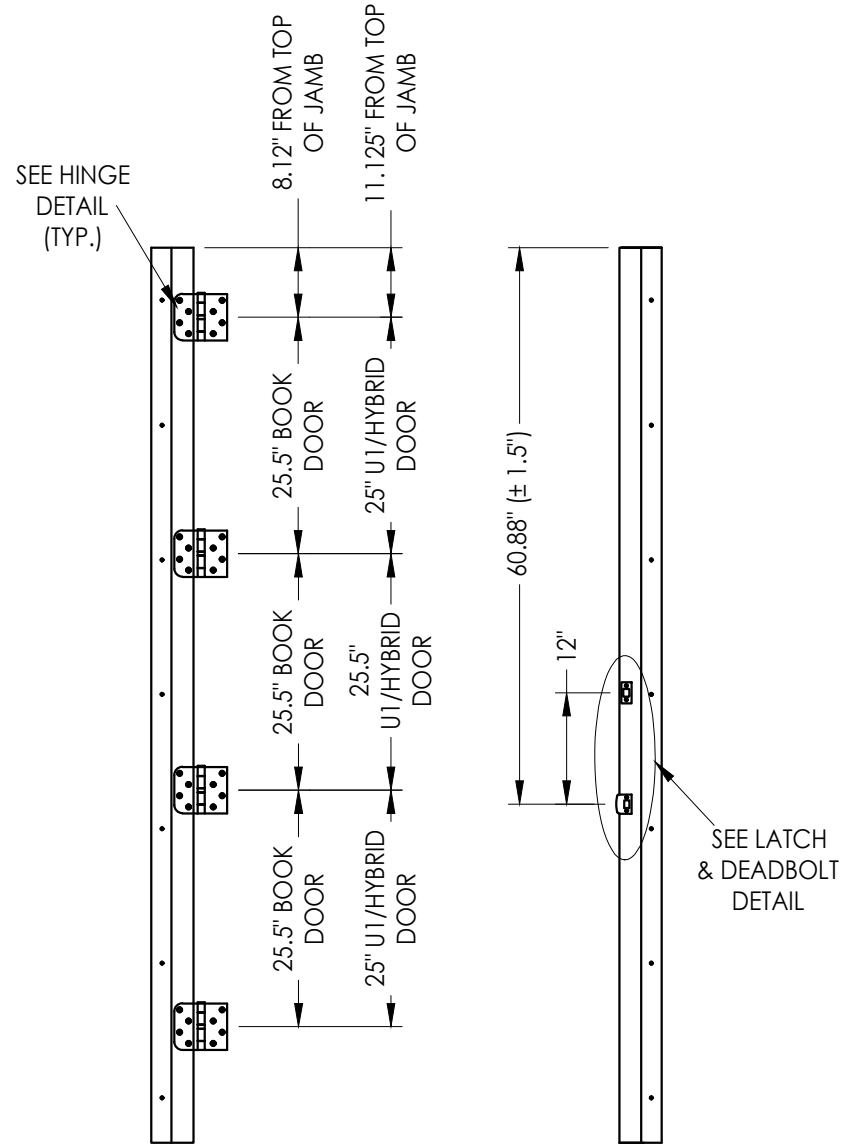
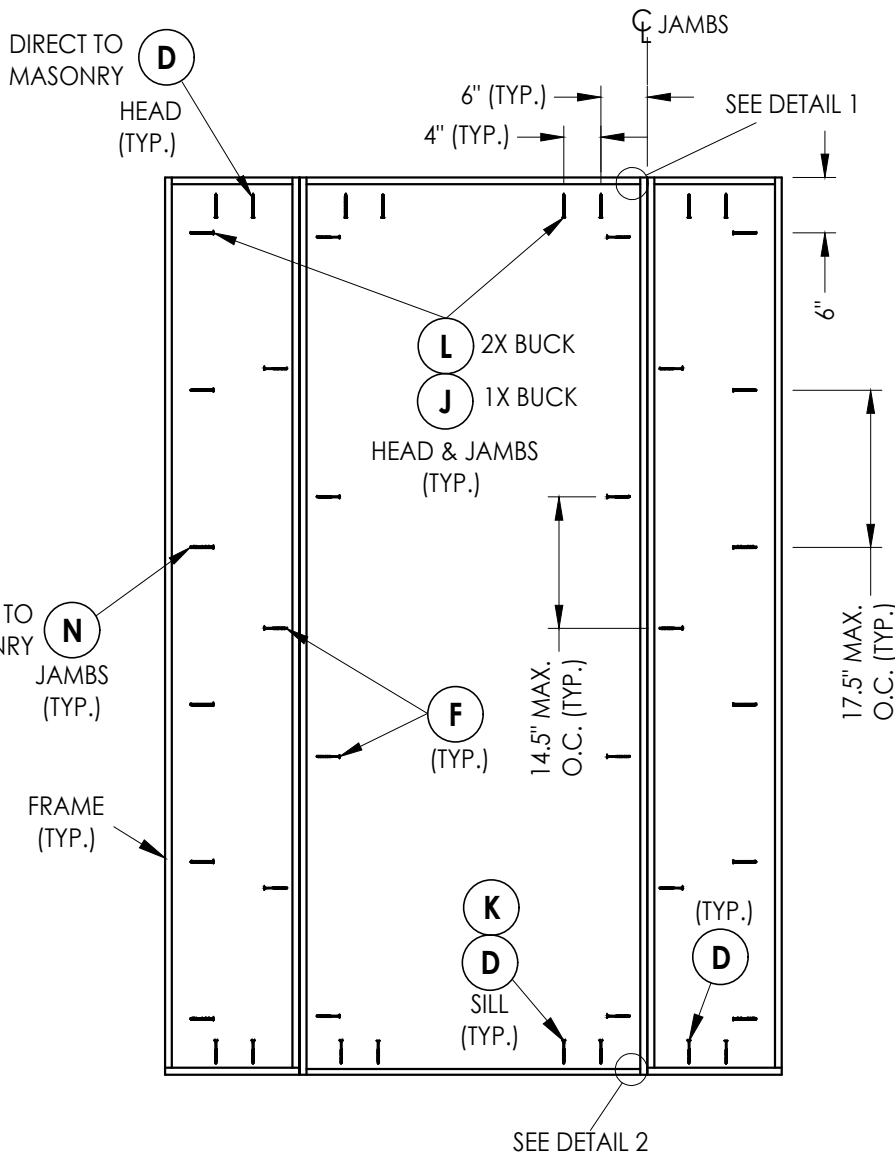
DETAIL 2
Surface Bolt Strike @ Sill Outswing



DETAIL 1
Surface Bolt Strike @ Head Inswing

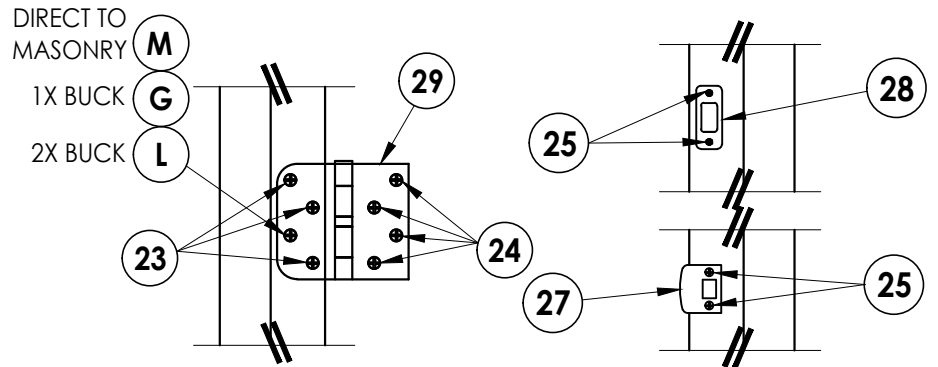


DETAIL 2
Surface Bolt Strike @ Sill Inswing



HINGE JAMB

STRIKE JAMB
Latch & Deadbolt



HINGE DETAIL

LATCH & DEADBOLT DETAIL

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:
FRAME ANCHORING

NO.	DATE	REVISIONS
2	8/22/23	UPDATE TO 8TH ED. (2023) FBC
1	8/05/20	UPDATE TO 7th ED (2020) FBC

DATE: 3/25/20

SCALE: N.T.S.

DWG. BY: RW

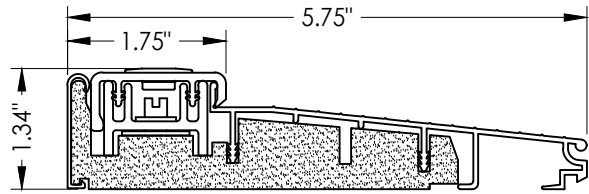
CHK. BY: LFS

DRAWING NO.:

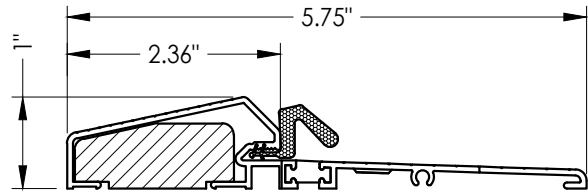
FL-23955.7

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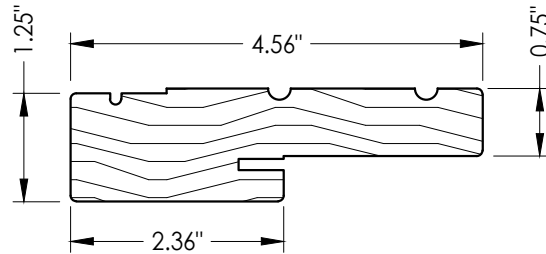
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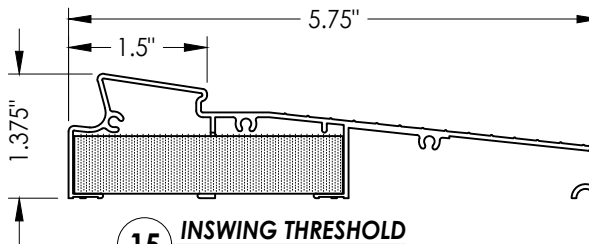
13 **INSWING THRESHOLD**
Adjustable



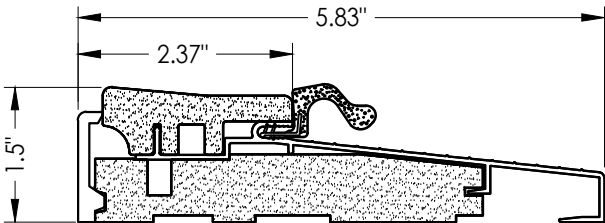
14 **OUTSWING THRESHOLD**



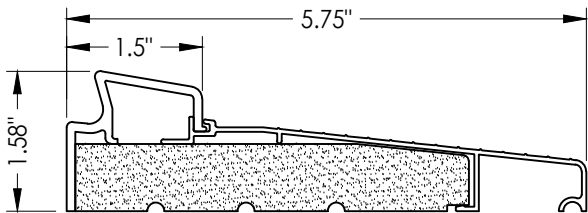
1 **WOOD JAMB**



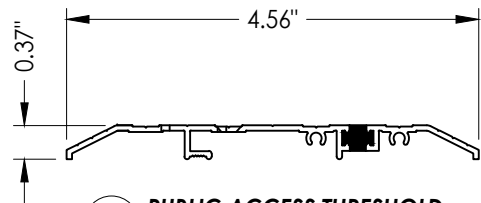
15 **INSWING THRESHOLD**
Moderate Climate



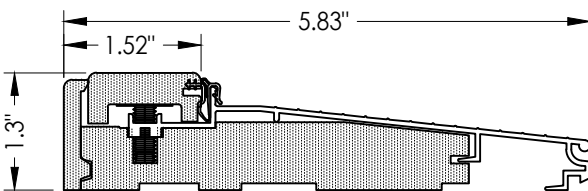
16 **OUTSWING THRESHOLD**



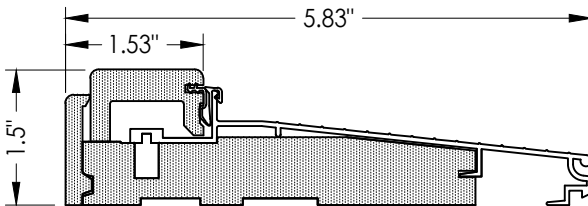
17 **INSWING THRESHOLD**
Basic Fixed



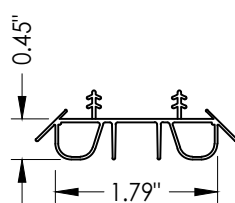
18 **PUBLIC ACCESS THRESHOLD**



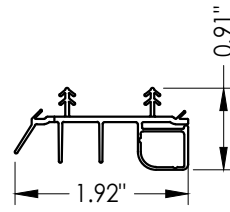
19 **INSWING THRESHOLD**
Adjustable



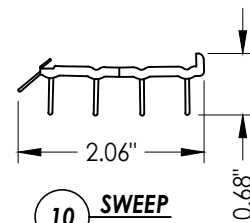
20 **INSWING THRESHOLD**
Adjustable



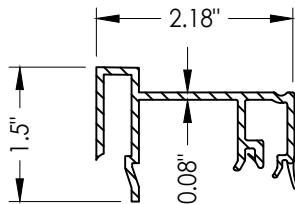
8 **SWEEP**



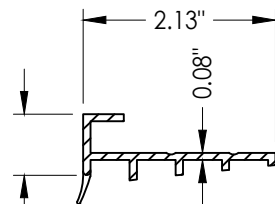
9 **SWEEP**



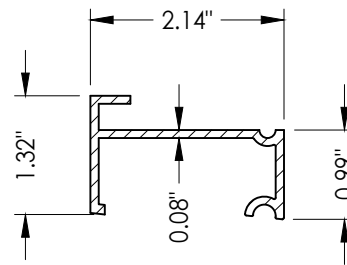
10 **SWEEP**



75 **SIDELITE SPACER**
Inswing



76 **SIDELITE SPACER**
Outswing



77 **INSWING SIDELITE**
Adapter
Moderate Climate Sill

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

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PRODUCT:
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FIBERGLASS DOOR

PART OR ASSEMBLY:

COMPONENTS

NO.	DATE	REVISIONS
2	8/22/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	8/05/20	UPDATE TO 7th ED (2020) FBC LFS

DATE: 3/25/20

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: FL-23955.7

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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	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	#10 X 2" PFH WOOD SCREW	STEEL
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
H	3/16" X 3-3/4" PFH ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
M	3/16" X 2-1/4" PFH ITW CONCRETE SCREW	STEEL
1	JAMB (FINGER JOINT PINE)	WOOD
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	VINYL
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL
13	INSWING THRESHOLD	ALUM/COMP
14	OUTSWING THRESHOLD	ALUM/COMP
15	INSWING THRESHOLD	ALUM/COMP
16	OUTSWING THRESHOLD	ALUM/COMP
17	INSWING THRESHOLD	ALUM/COMP
18	PUBLIC ACCESS THRESHOLD	ALUM
19	INSWING THRESHOLD	ALUM/COMP
20	INSWING THRESHOLD	ALUM/COMP
23	#10 X 3/4" PFH WOOD SCREW	STEEL
24	#10 X 1" PFH WOOD SCREW	STEEL
25	#8 X 2-1/2" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
40	DOOR PANEL (BOOK DOOR)	-
41	DOOR PANEL (HYBRID DOOR)	-
42	DOOR PANEL (U1 DOOR)	-
50	14" SIDELITE PANEL	-
60	1/2" SURFACE BOLT SPACER	STEEL
61	IVES SURFACE BOLT (#454) 8" LONG	STEEL
62	1/4-20 SEX BOLT w/ 1/4-20 X 1-3/4" FEMALE END	STEEL
63	SURFACE BOLT STRIKE PLATE	STEEL
64	#10 X 2-1/2" PFH SMS	STEEL
65	SURFACE BOLT INSWING THRESHOLD STRIKE ANGLE	STEEL
75	SIDELITE SPACER (INSWING)	PVC
76	SIDELITE SPACER (OUTSWING)	PVC
77	SIDELITE SPACER (INSWING) - Moderate Climate Sill	PVC

CONCRETE ANCHOR NOTES:

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"

WOOD SCREW INSTALLATION NOTES:

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

DATE: 3/25/20		SHEET 13 OF 13																	
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