

OPAQUE FIBERGLASS DOOR

DOUBLE

w/ or w/out SIDELITE(S)

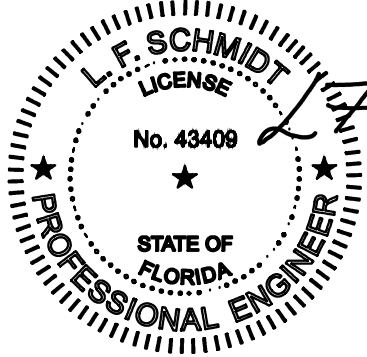
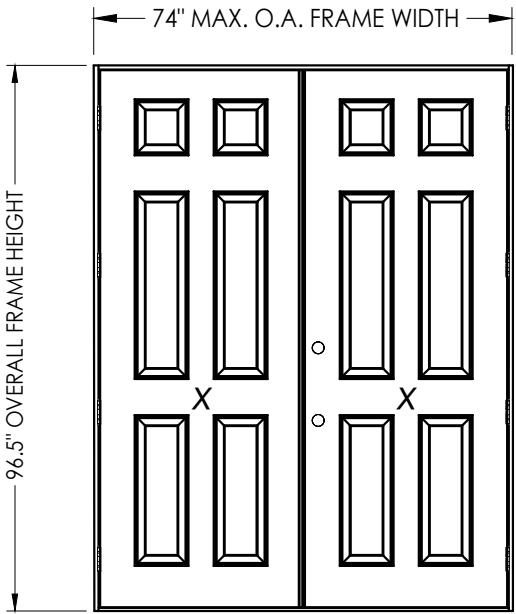
OUTSWING

"IMPACT"

GENERAL NOTES

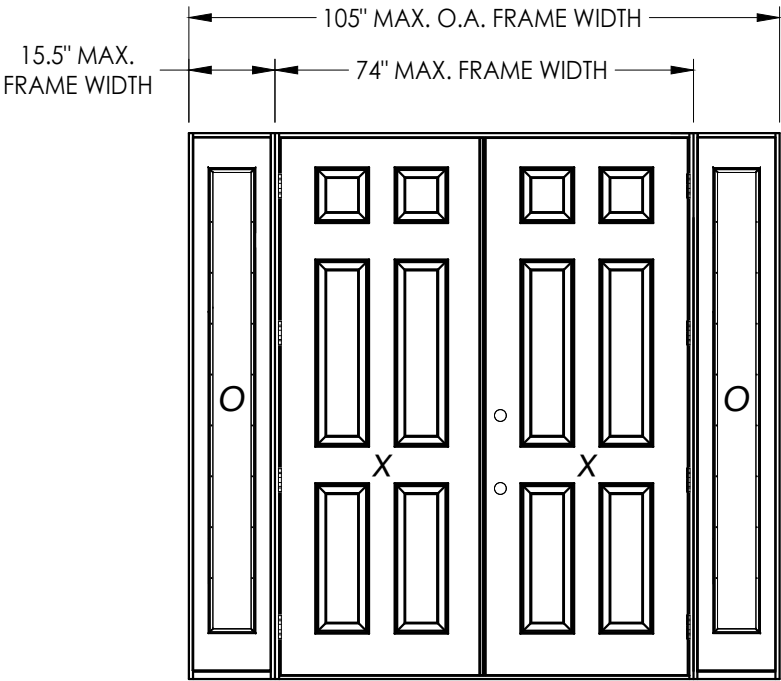
1. This product evaluation drawing has been developed in compliance with the 8th Edition (2023) Florida Building Code (FBC) including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall 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 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
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".

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SHEET #	DESCRIPTION	SHEET #	
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3	Sidelite Panel Details	9	Vertical Cross Sections (Thresholds)
4	Elevations	10	Buck Anchoring
5	Horizontal Cross Sections	11	Frame Anchoring & Hardware Details
6	Horizontal & Vertical Cross Sections (2X Buck)	12	Bill of Materials & Components



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	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE
XX	74" x 96.5"	+45.0	-45.0
OXXO	105" x 96.5"	+45.0	-45.0

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

TRINITY

FIBERGLASS PATIO DOOR

"Impact"

PART OR ASSEMBLY:

TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

DATE: 6/13/23

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: FL-37184.6

SHEET 1 OF 12

REVISIONS

NO.	DATE	DESCRIPTION
1	8/01/23	UPDATE TO 8TH ED. (2023) FBC

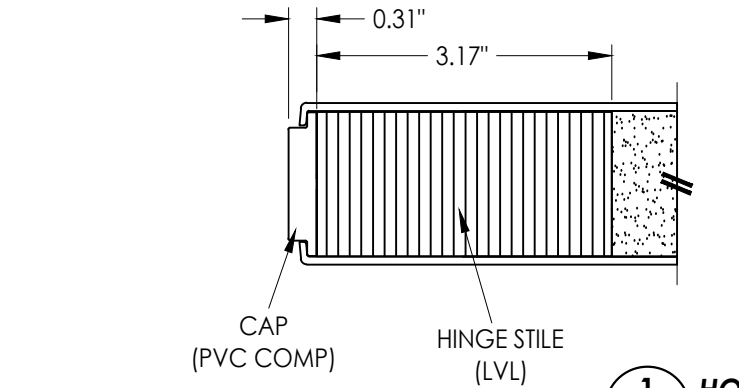
Building Consultants, Inc.

P.O. Box 230, Valrico, FL 33595

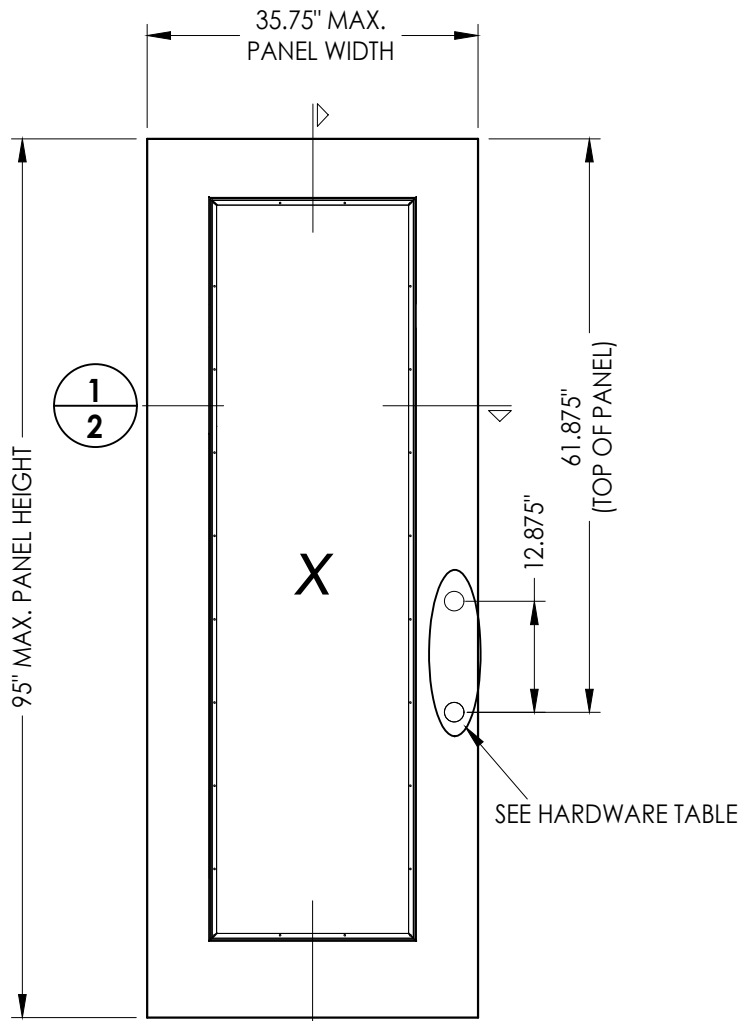
Phone No.: 813.659.9197

FBPE Registry No. 9813

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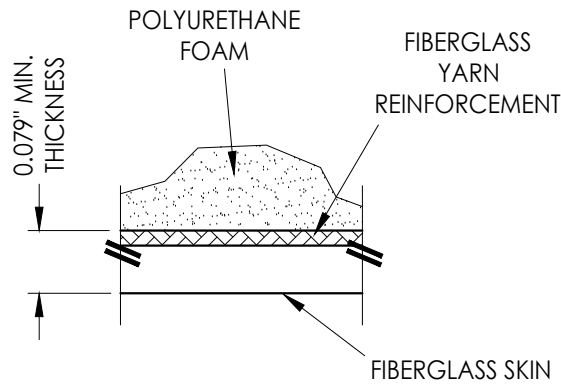


1
2 **HORIZONTAL CROSS SECTION**



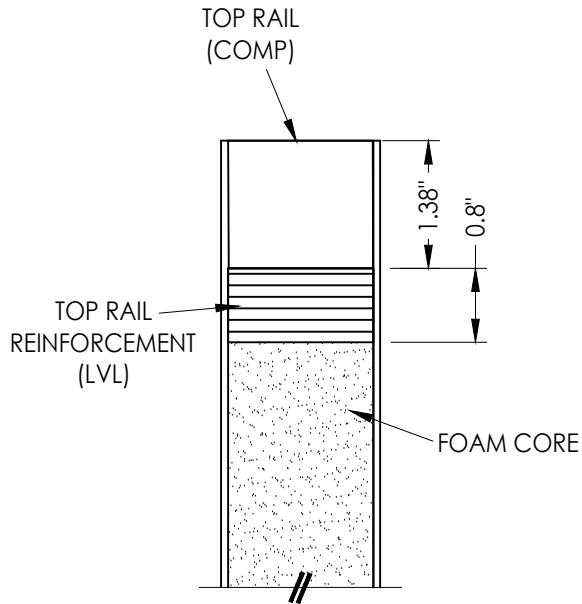
2
2 **40 FIBERGLASS DOOR PANEL**

FIBERGLASS SKIN: 0.079" MIN. THK. (Fy = 10,000 PSI MIN.)
FOAM CORE: POLYURETHANE - 1.9 PCF MIN.)

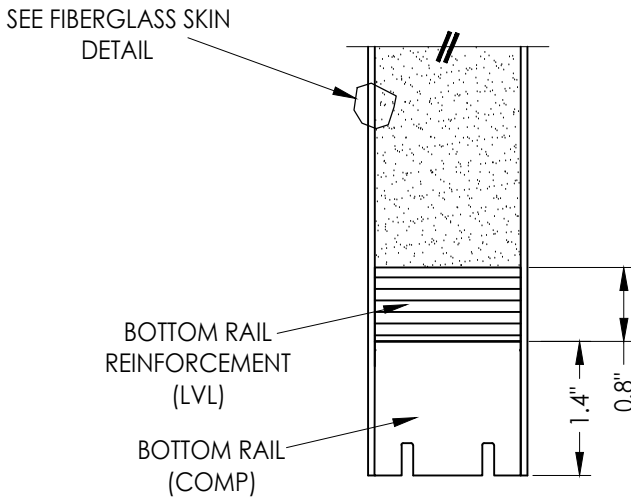


FIBERGLASS SKIN DETAIL

HARDWARE TABLE		
MANUFACTURER	MODEL	
KWIKSET	Knob:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)
SCHLAGE	Knob:	F51
	DEADBOLT:	B60N



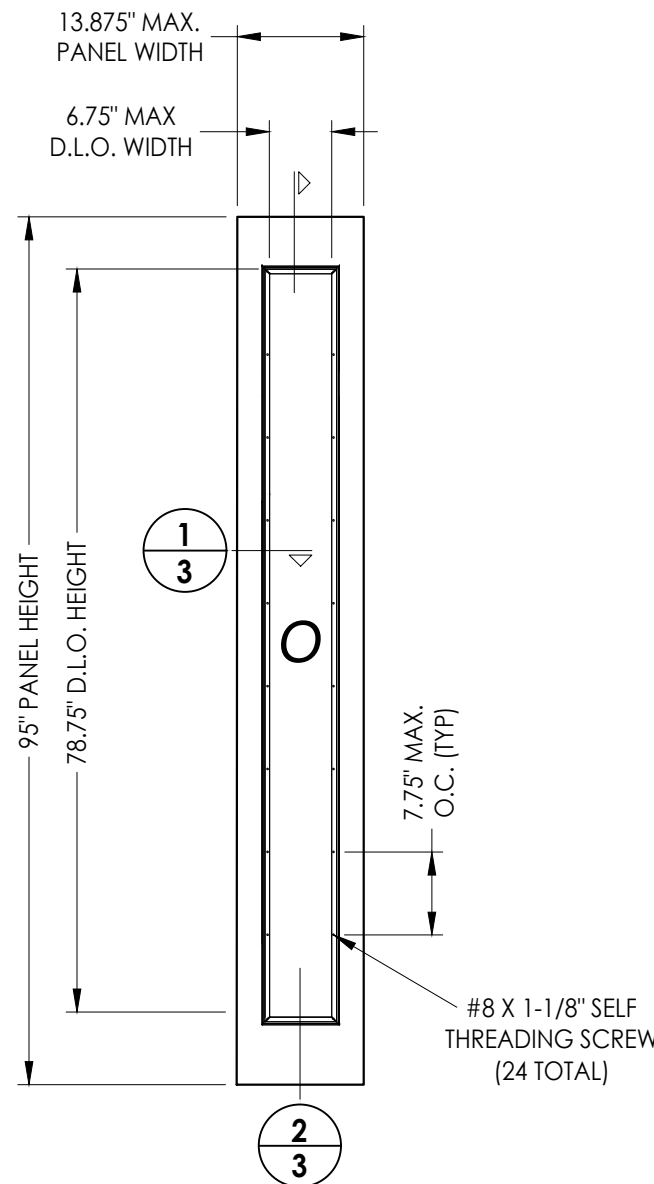
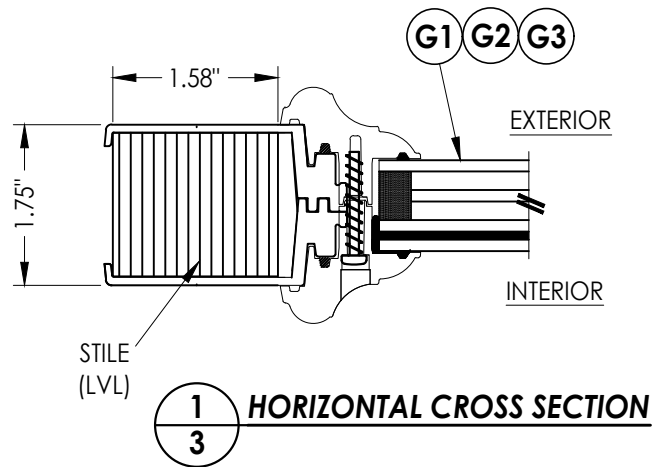
EXTERIOR INTERIOR



2
2 **VERTICAL CROSS SECTION**

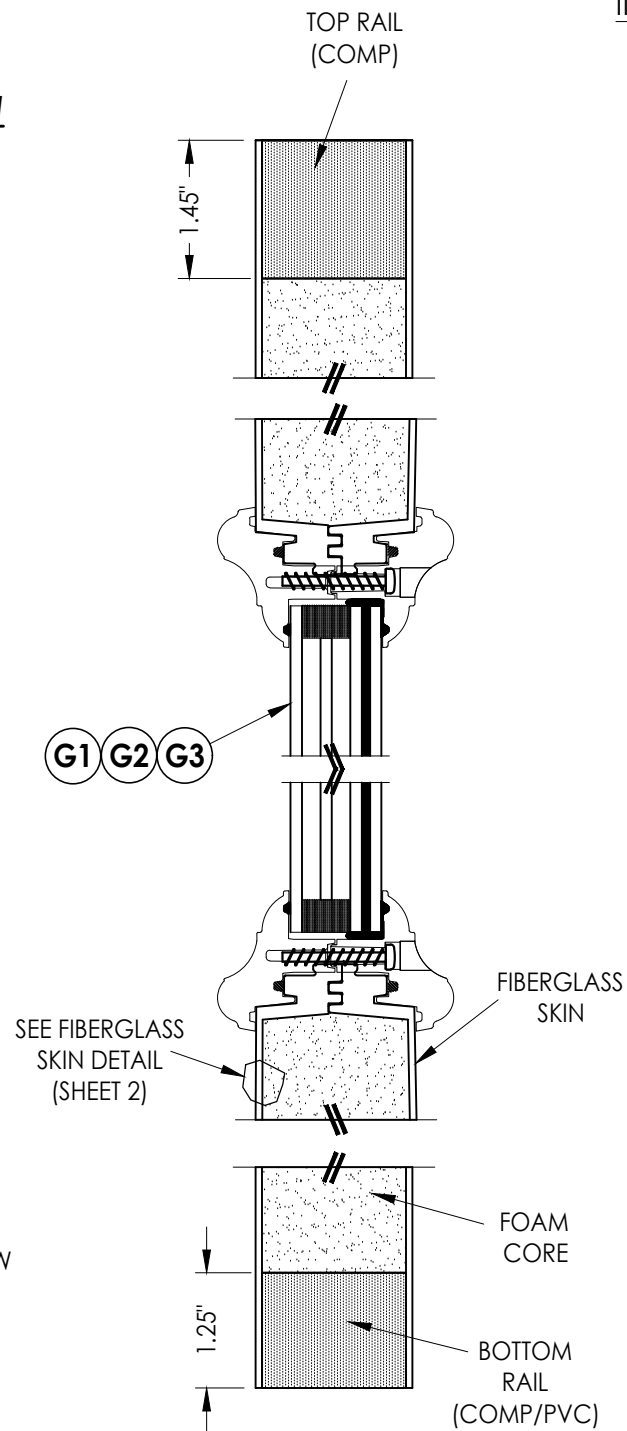
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				<			
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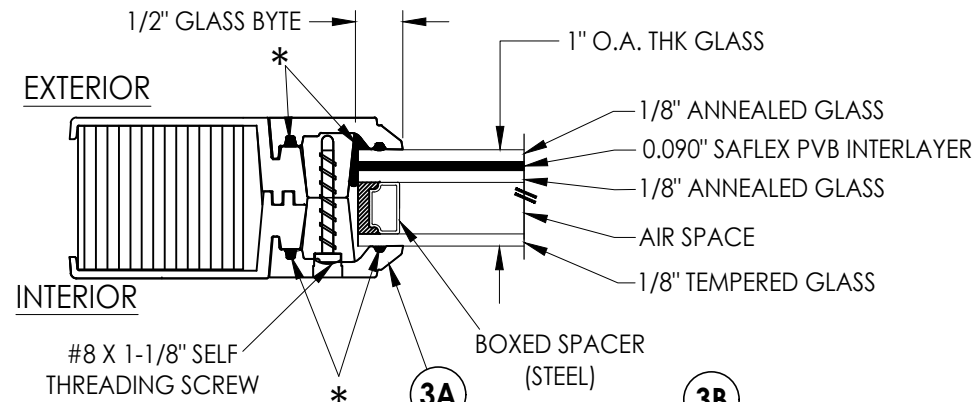


50 FIBERGLASS SIDELITE PANEL

FIBERGLASS SKIN: 0.079" MIN. THK. (F_y = 10,000 PSI MIN.)
FOAM CORE: POLYURETHANE - 1.9 PCF MIN.)

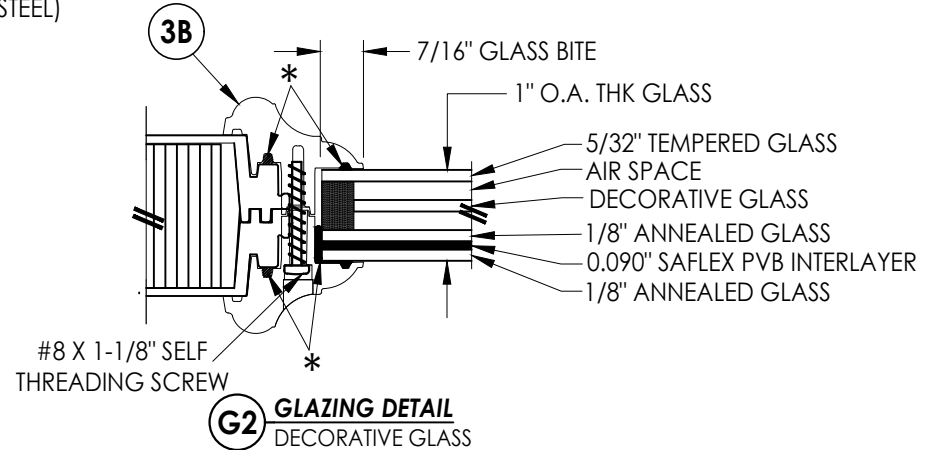


2 VERTICAL CROSS SECTION

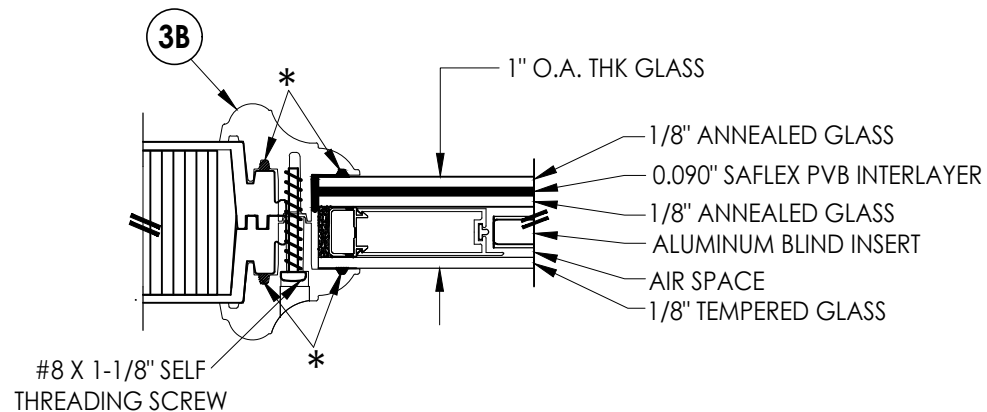


G1 GLAZING DETAIL

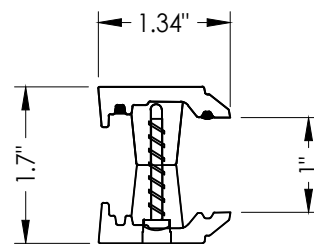
*DOW 995 STRUCTURAL SEALANT



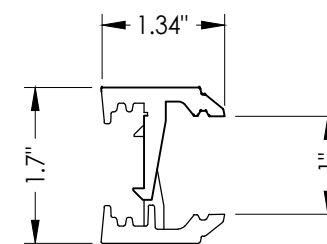
G2 GLAZING DETAIL
DECORATIVE GLASS



G3 GLAZING DETAIL
BLINDS BETWEEN GLASS

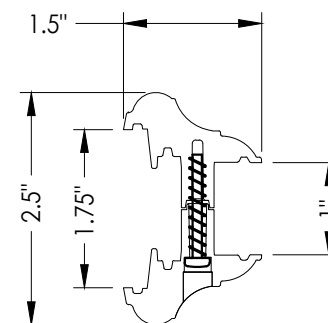


SECTION @ SCREW



SECTION @ HOOK TAB

3A FLUSH GLAZING FRAME
ABS



3B MAHOGANY LITE FRAME
ABS or PC/ASA

Documents Prepared By:
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P.E. No. 43409

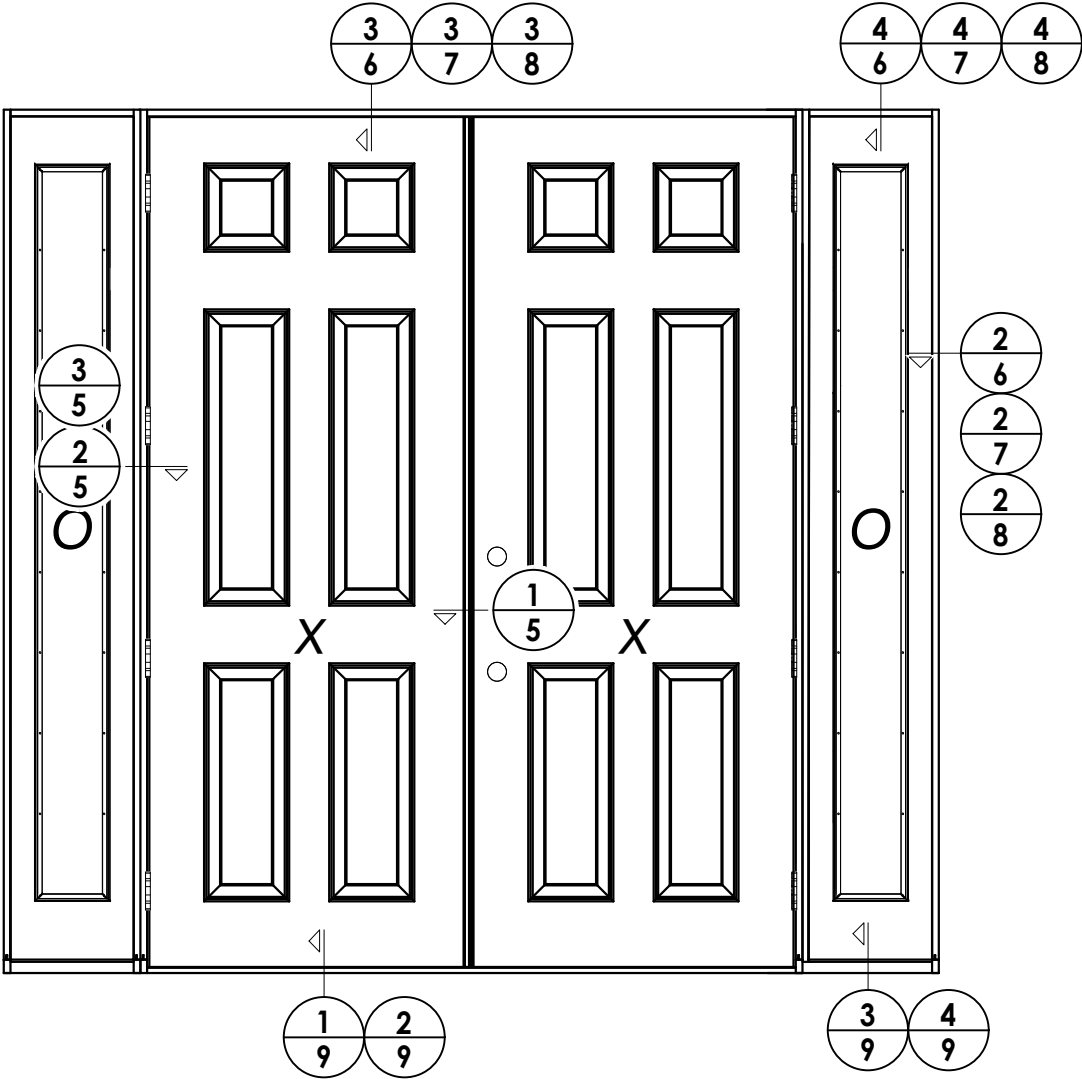
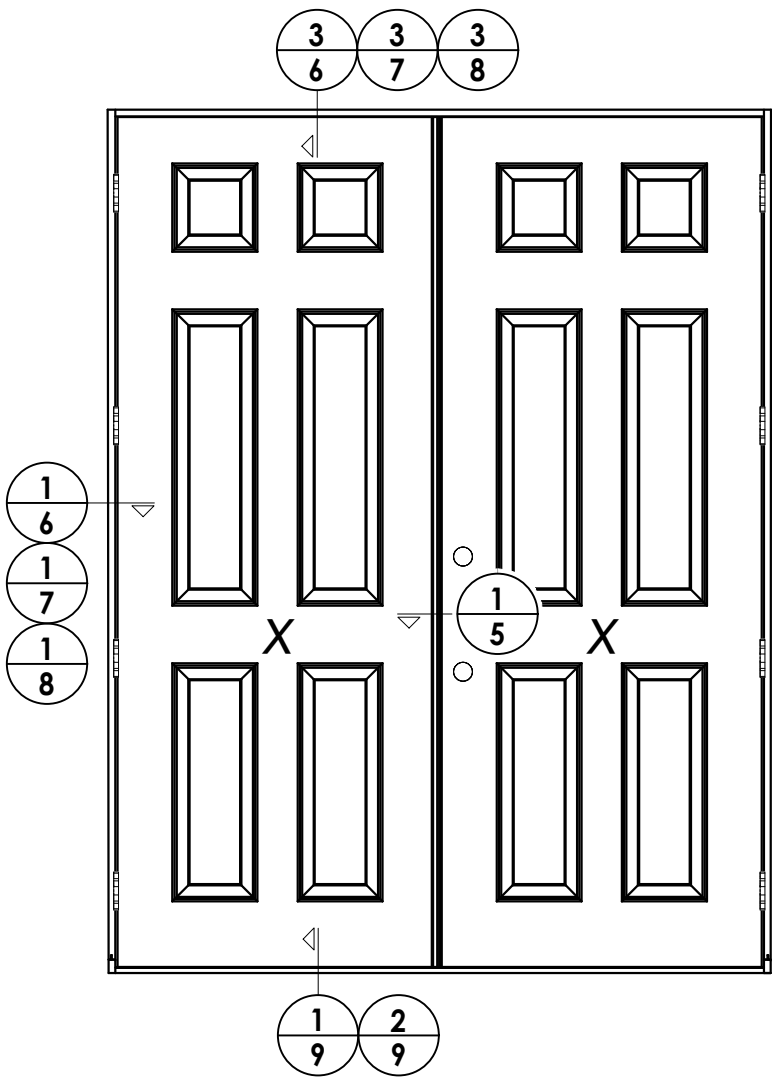
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: TRINITY
FIBERGLASS PATIO DOOR
"Impact"

PART OR ASSEMBLY:
SIDELITE
PANEL DETAILS

NO.	DATE	REVISIONS
1	8/01/23	UPDATE TO 8TH ED. (2023) FBC
		LFS
		BY

DATE: 6/13/23
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-37184.6
SHEET 3 OF 12



DATE: 6/13/23
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-37184.6
SHEET 4 OF 12

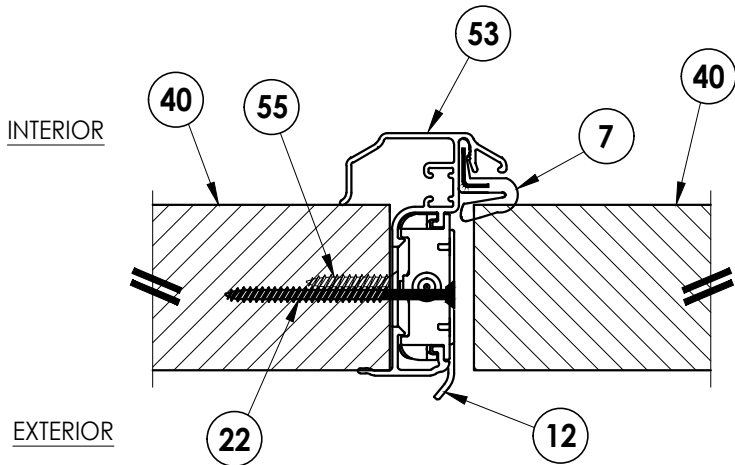
REVISIONS	
NO	DATE
1	8/01/23
UPDATE TO 8TH ED. (2023) FBC	
LFS	BY

PRODUCT:	TRINITY
	FIBERGLASS PATIO DOOR
PART OR ASSEMBLY:	"Impact"
	ELEVATIONS

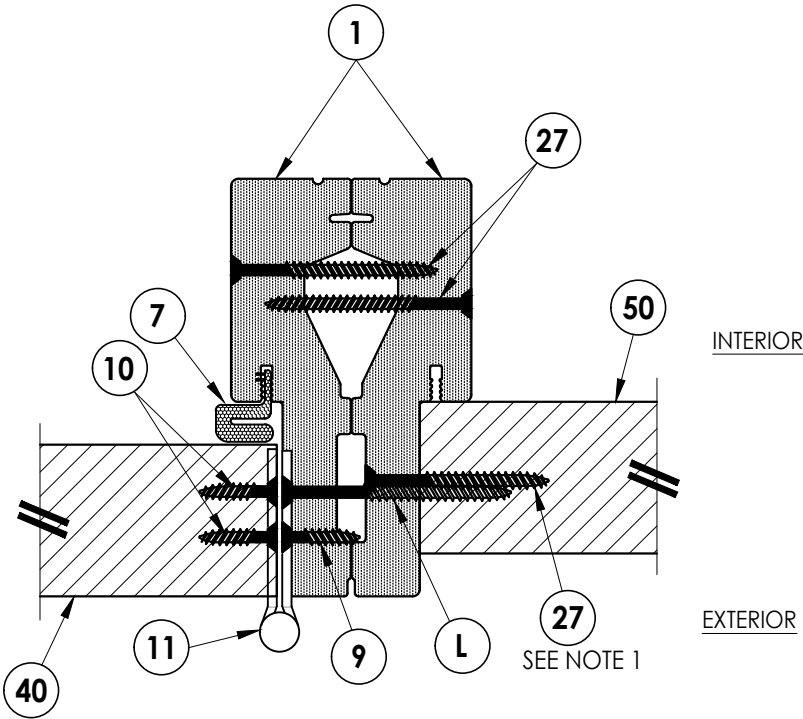
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

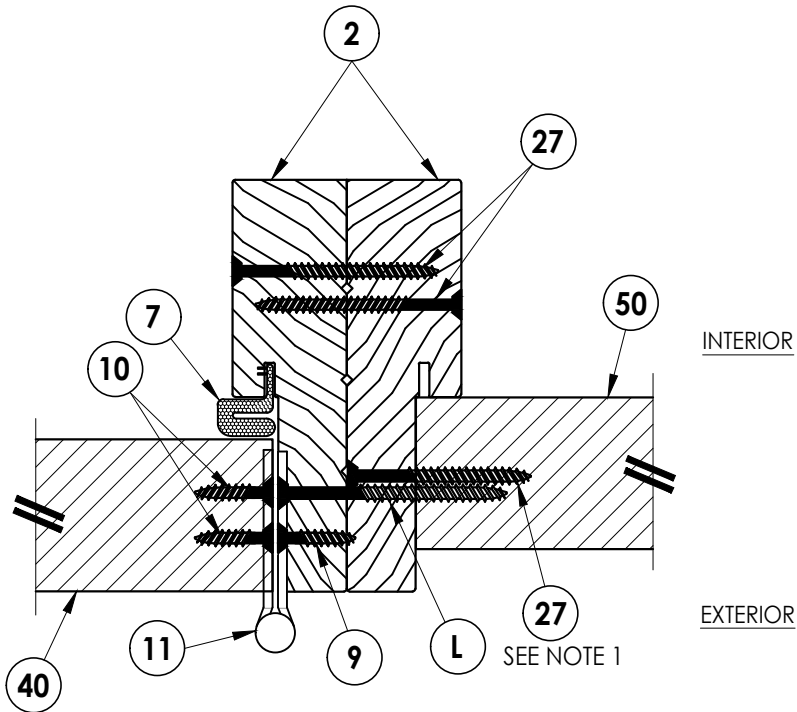
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1
5 **HORIZONTAL CROSS SECTION**



2
5 **HORIZONTAL CROSS SECTION**
SHOWN w/ PVC JAMBS

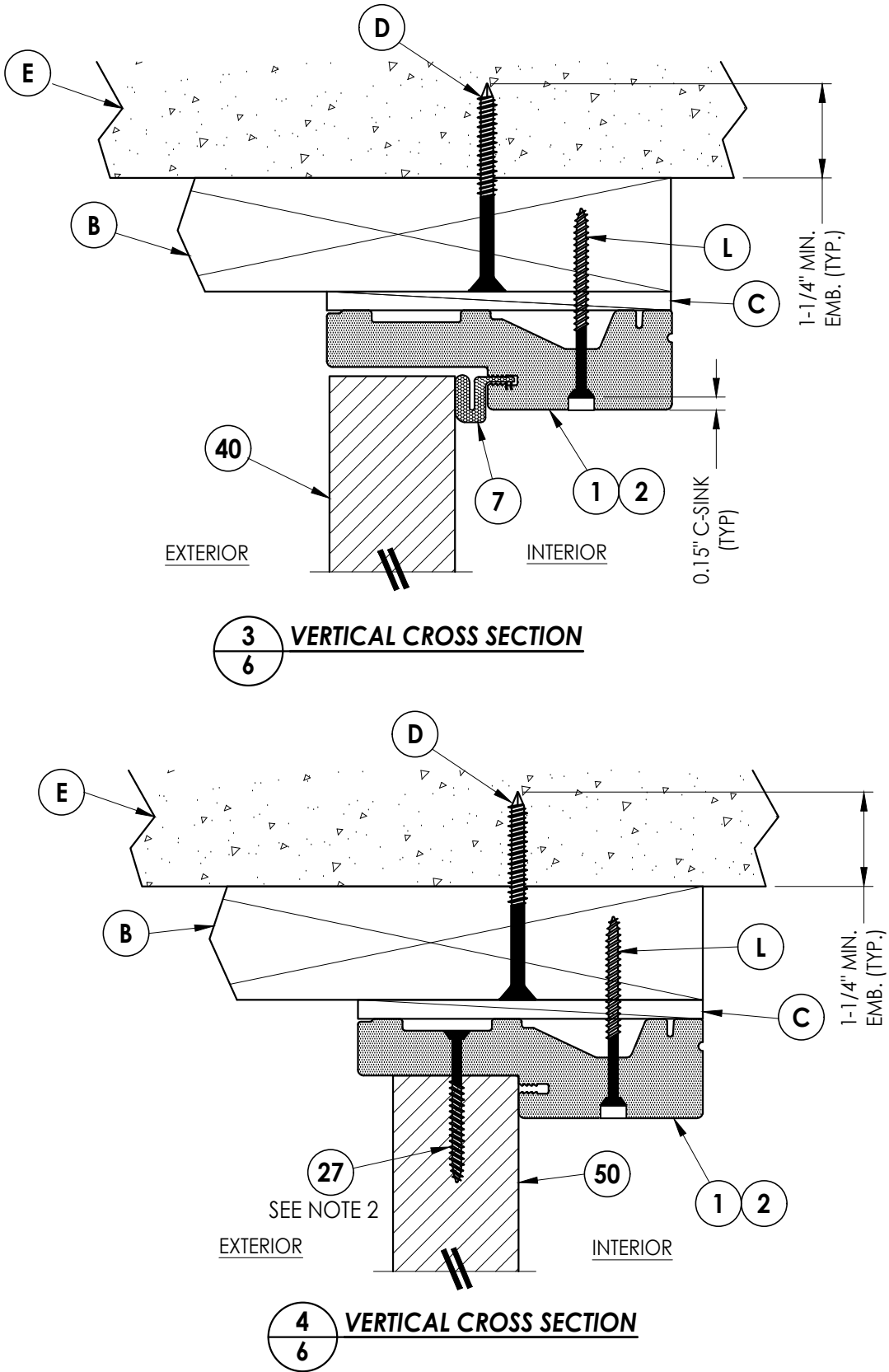
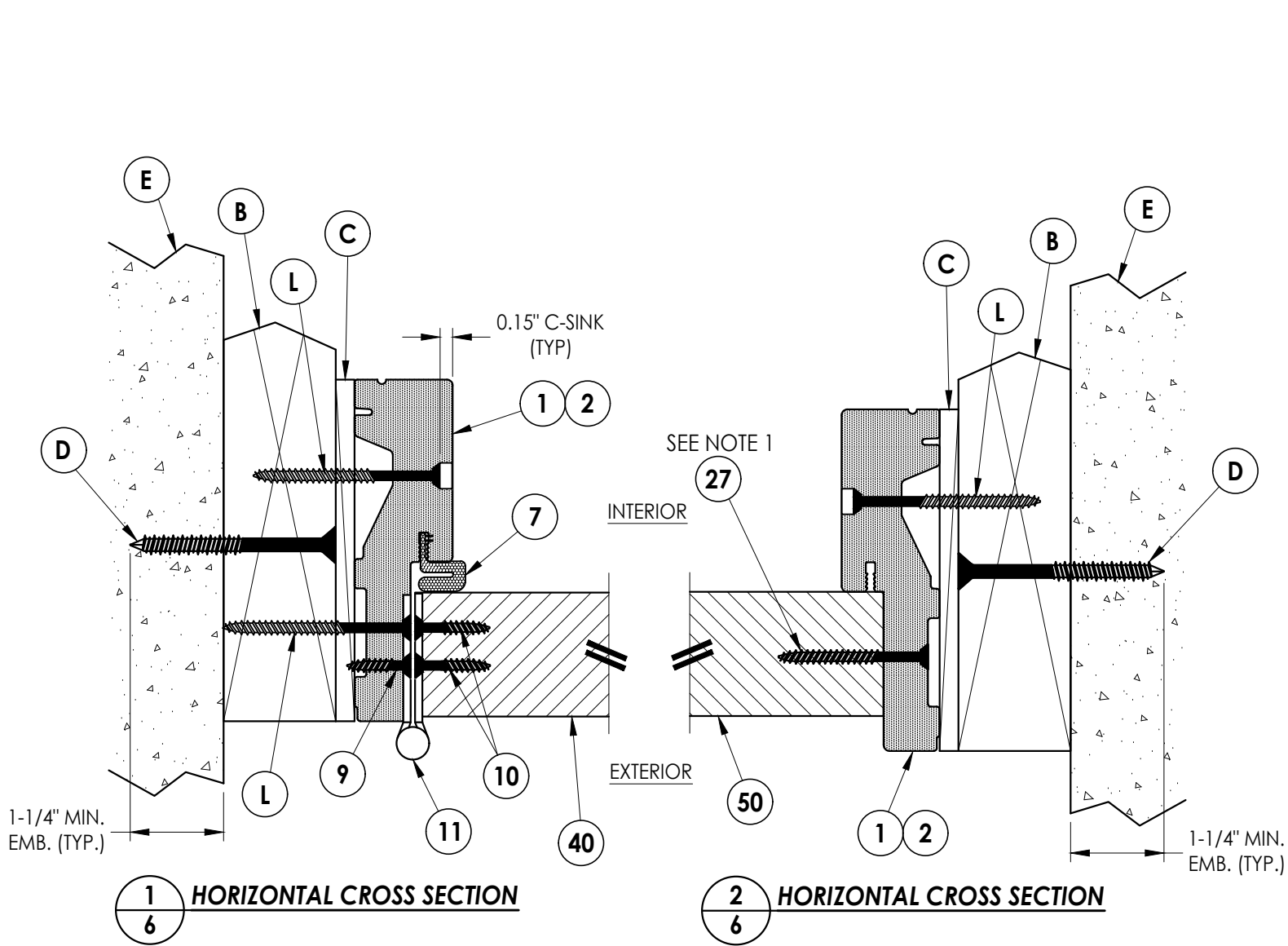


3
5 **HORIZONTAL CROSS SECTION**
SHOWN w/ WOOD JAMBS

Notes:
1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side 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: TRINITY FIBERGLASS PATIO DOOR "Impact"				PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS			
DATE: 6/13/23				LFS			
SCALE: N.T.S.				BY			
DWG. BY: RW				FBC			
CHK. BY: LFS				UPDATE TO 8TH ED. (2023)			
DRAWING NO.: FL-37184.6				NO. DATE			
SHEET 5 OF 12				REVISIONS			

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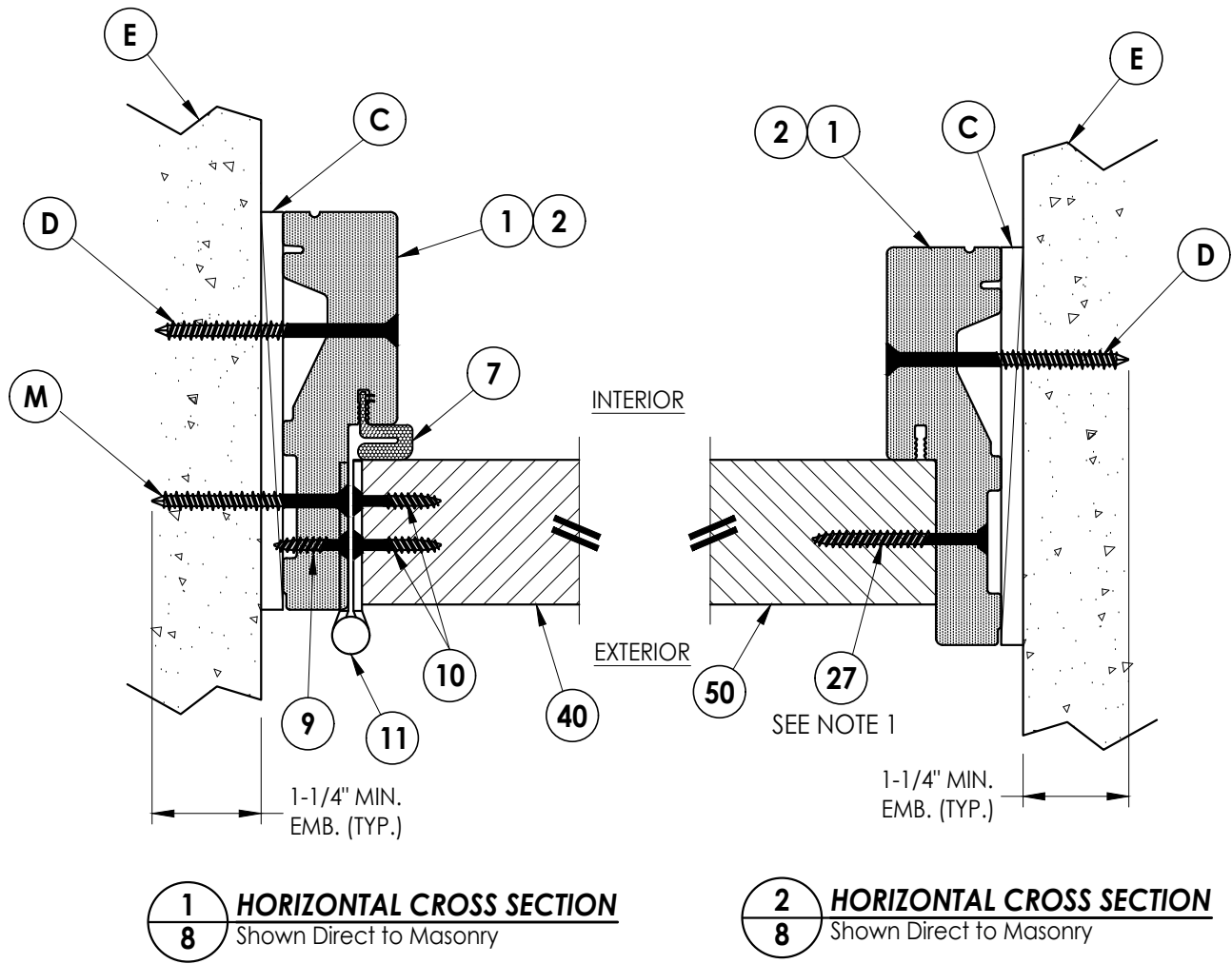


Notes:

1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located @ centerline (1 screw total along head).

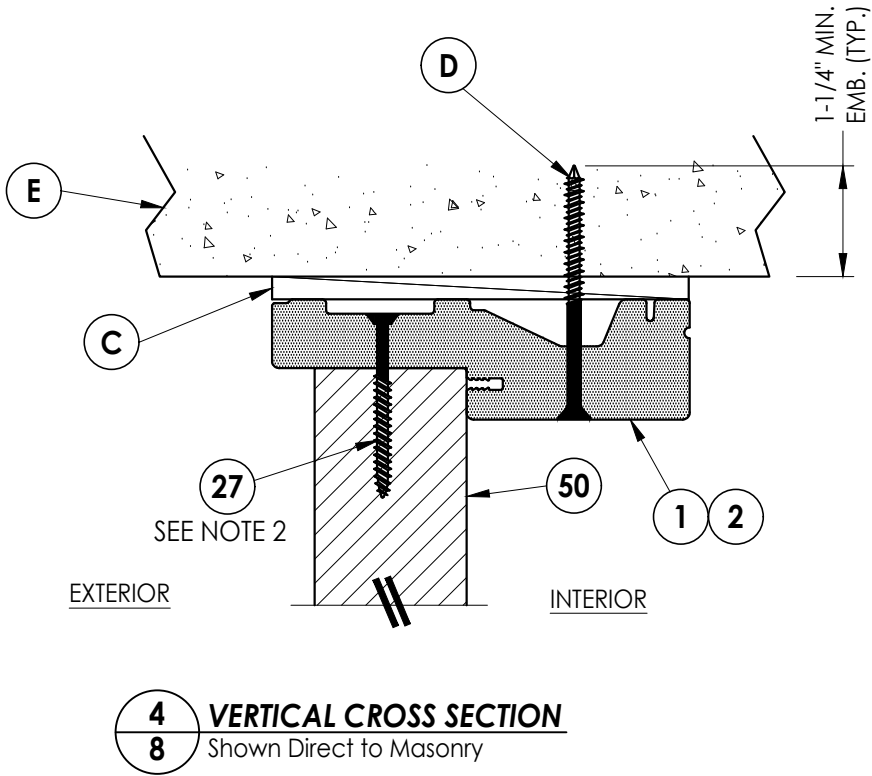
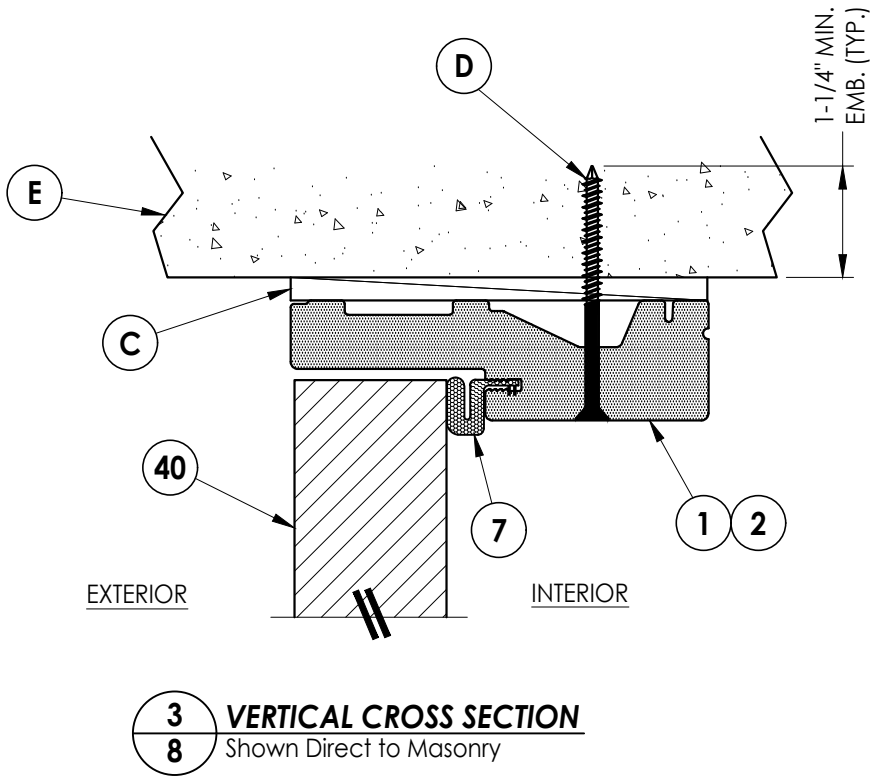
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT:	TRINITY FIBERGLASS PATIO DOOR "Impact"	PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)	
		REVISIONS	
		NO.	DATE
		1	8/01/23
			UPDATE TO 8TH ED. (2023) FBC
			LFS
			BY
DATE: 6/13/23			
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-37184.6			
SHEET 6 OF 12			

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Notes:

1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located @ centerline (1 screw total along head).

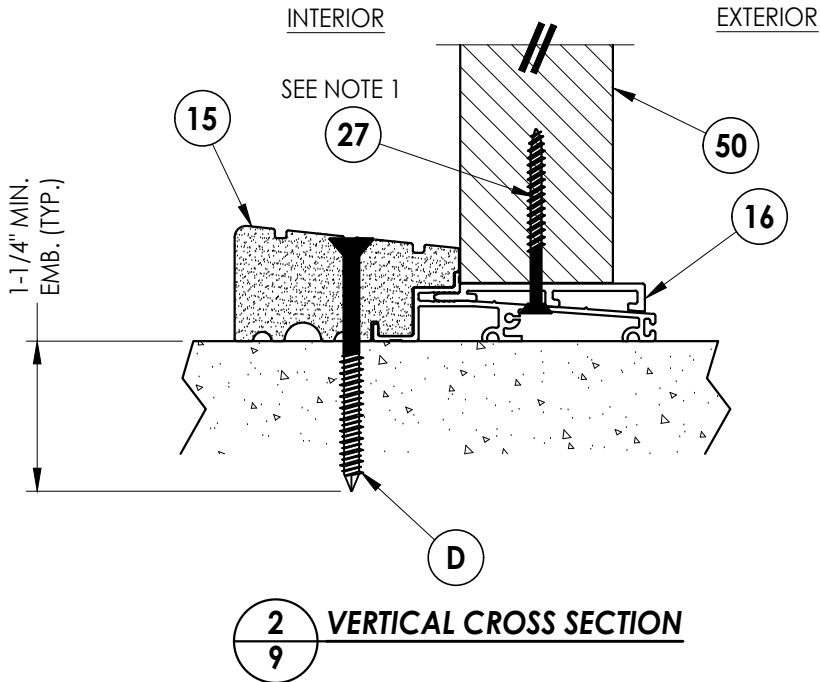
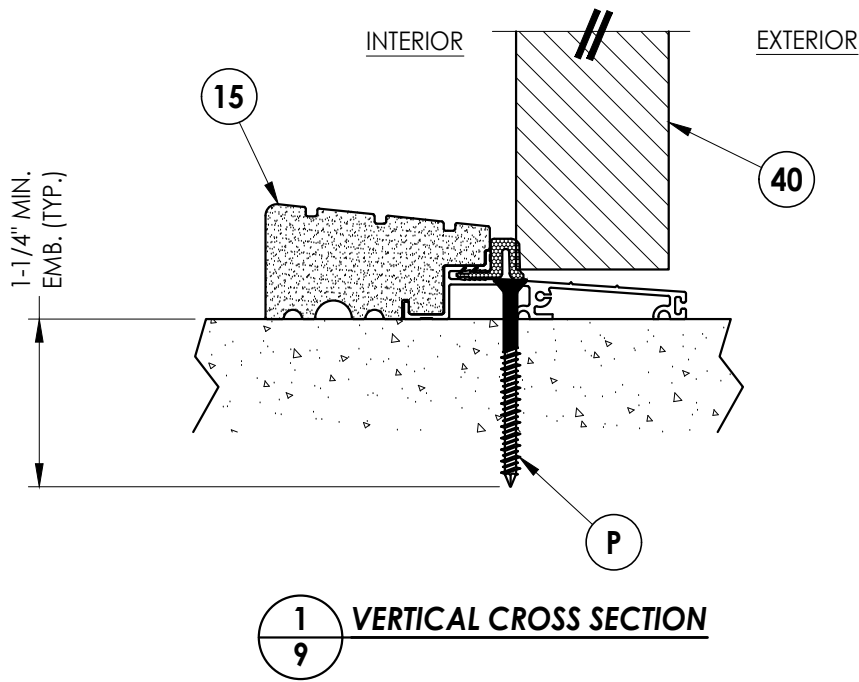


Documents Prepared By:		Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT:		TRINITY FIBERGLASS PATIO DOOR "Impact"		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (DIRECT TO MASONRY)	
				REVISIONS	
				DATE: 6/13/23	
				SCALE: N.T.S.	
				DWG. BY: RW	
				CHK. BY: LFS	
				DRAWING NO.: FL-37184.6	
				SHEET 8 OF 12	
				DATE: 8/01/23	
				NO. DATE	
				1 8/01/23	
				UPDATE TO 8TH ED. (2023) FBC	
				LFS	
				BY	

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Notes:

1. Sidelite assembly screws located @ centerline
(1 screw total along head).



DATE: 6/13/23
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-37184.6
SHEET 9 OF 12

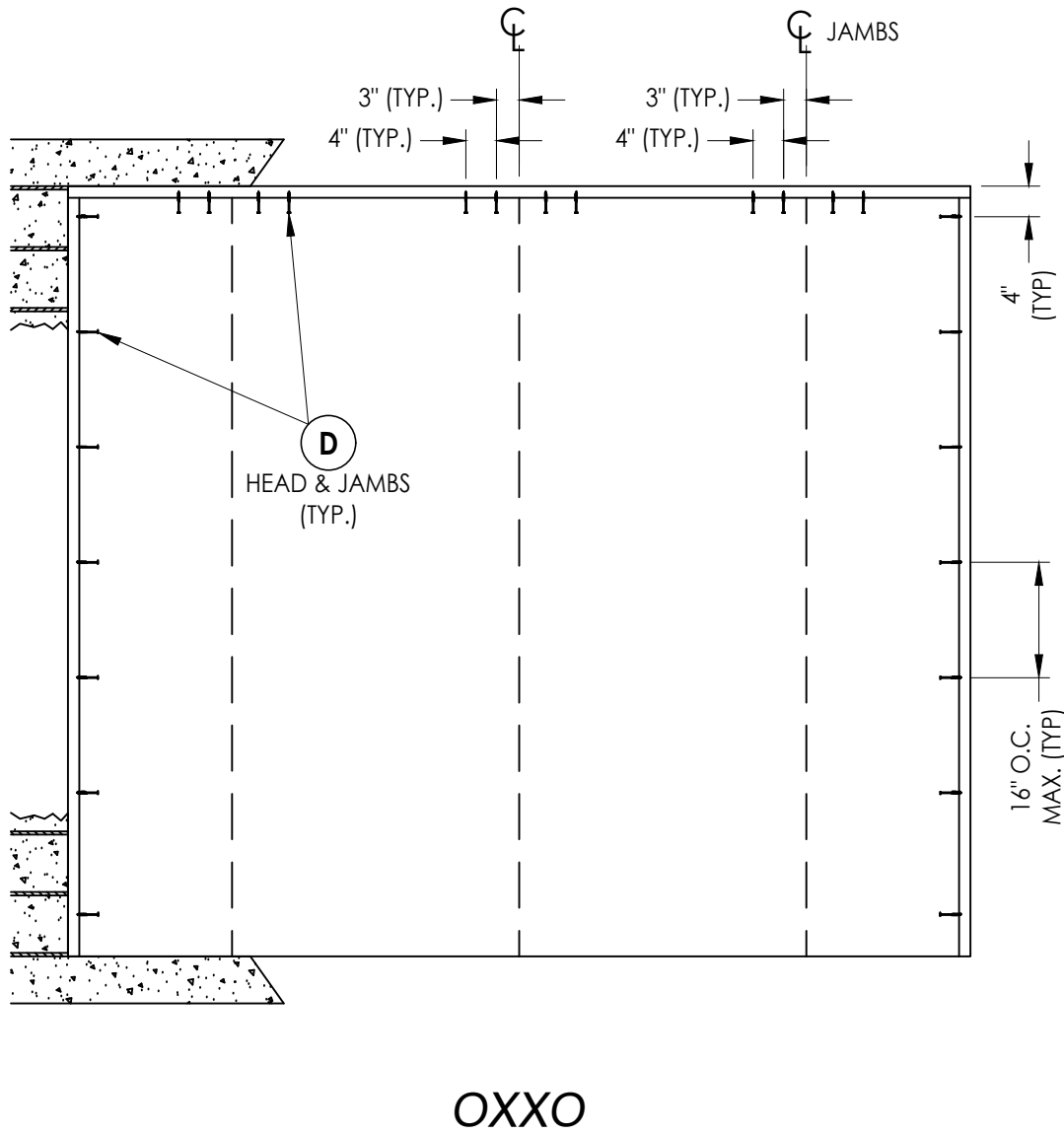
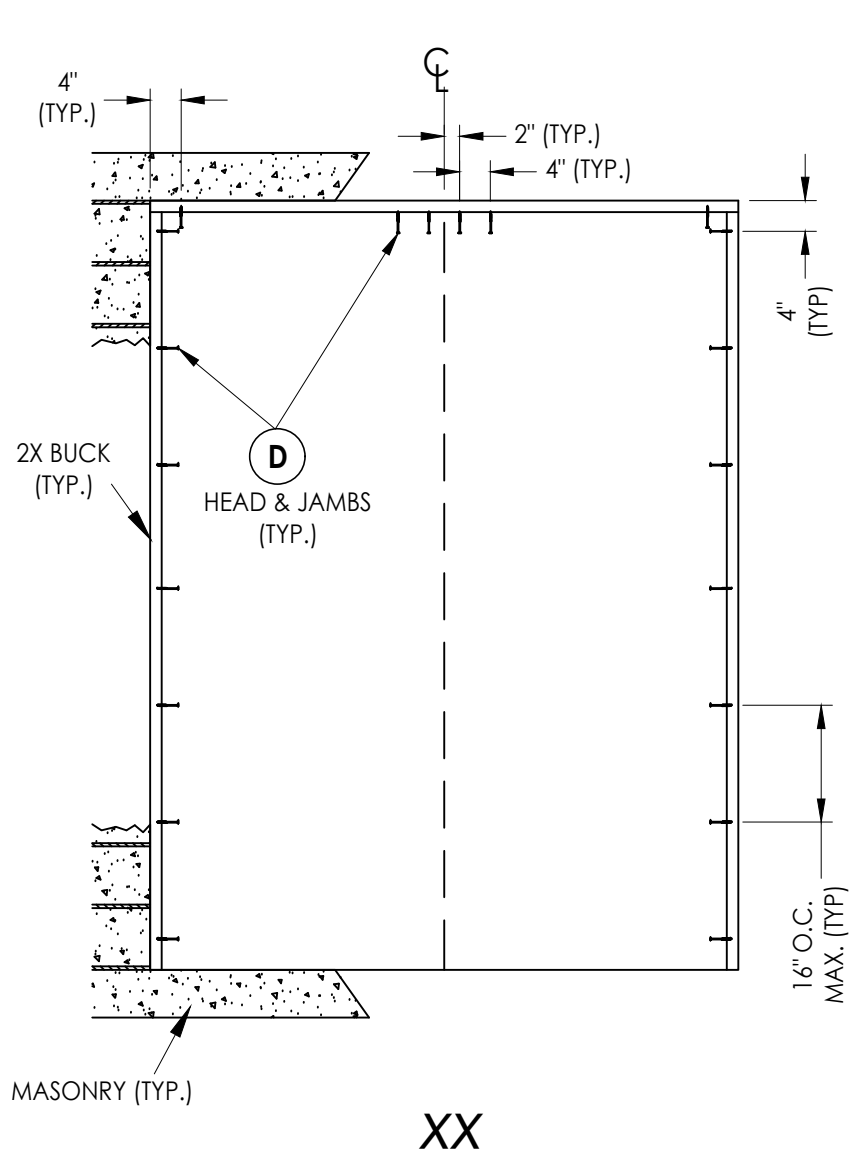
NO.	DATE	REVISIONS
1	8/01/23	UPDATE TO 8TH ED. (2023) FBC
		LFS
		BY

PRODUCT:	TRINITY FIBERGLASS PATIO DOOR "Impact"
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS (THRESHOLDS)

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

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2X BUCK ANCHORING

DATE: 6/13/23

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:

FL-37184.6

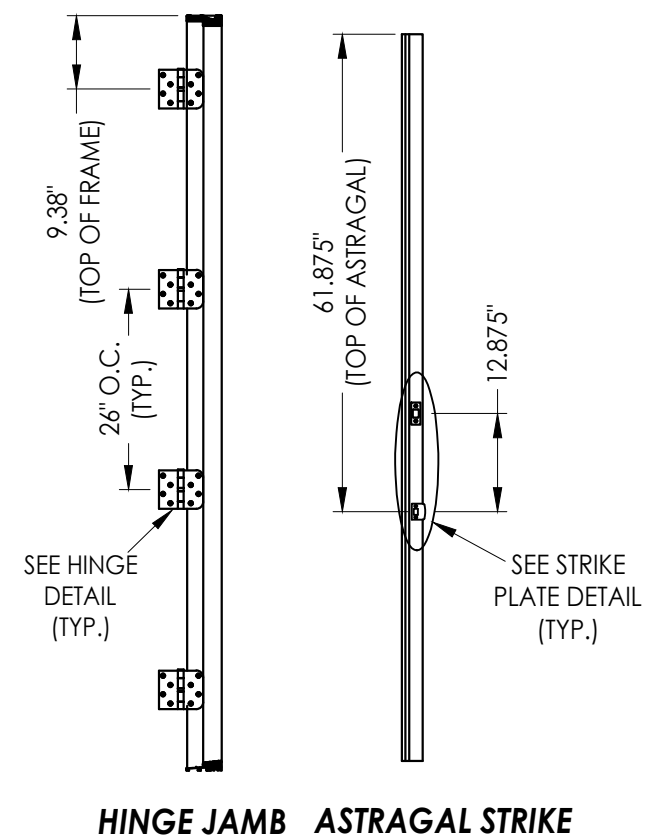
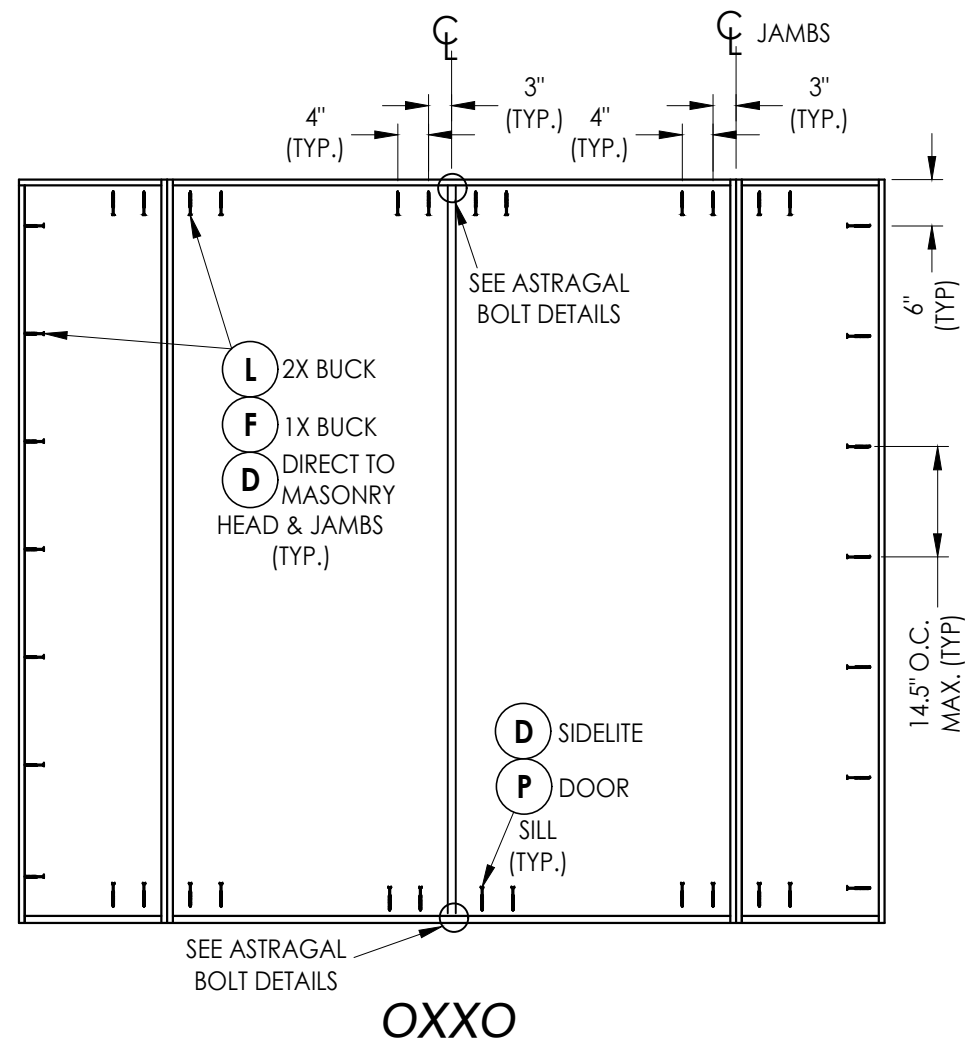
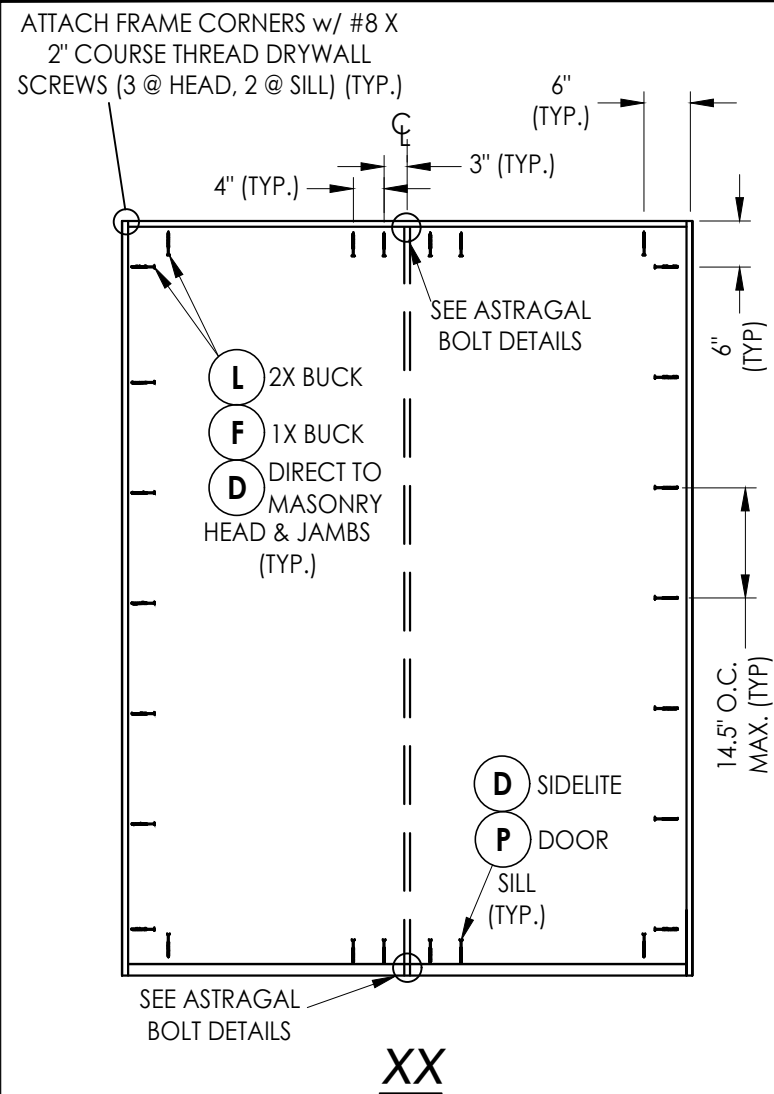
SHEET 10 OF 12

PRODUCT: TRINITY
FIBERGLASS PATIO DOOR
"Impact"

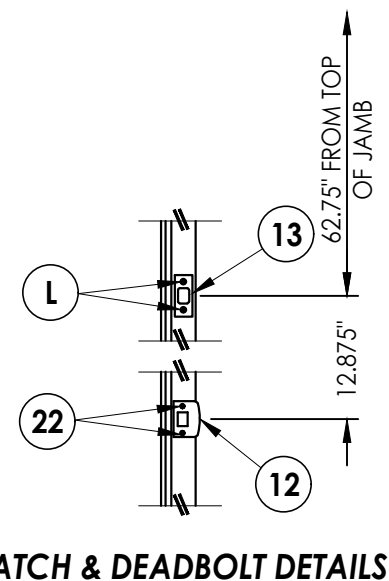
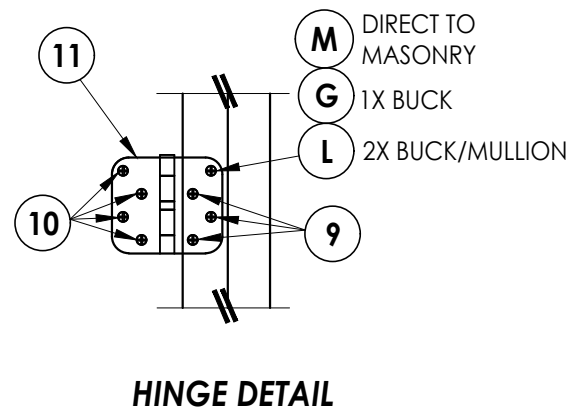
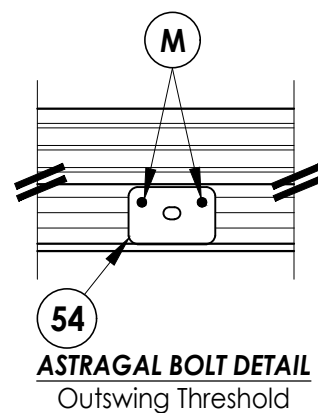
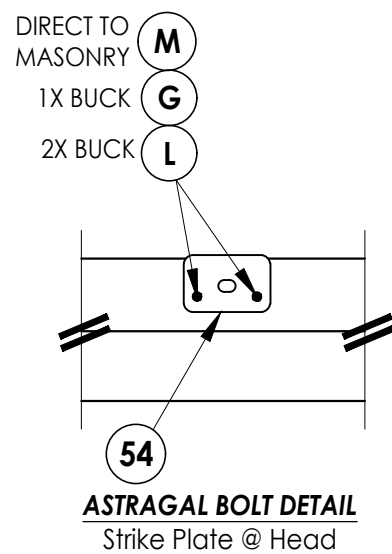
PART OR ASSEMBLY:
BUCK ANCHORING

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



FRAME ANCHORING



HARDWARE DETAILS

[illegible]

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 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	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMB.)	STEEL
M	3/16" X 2-1/4" PFH ITW CONCRETE SCREW	STEEL
P	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
1	PVC JAMB	COMP
2	WOOD JAMB	WOOD
7	WEATHERSTRIP	FOAM
9	#9 X 3/4" PFH WOOD SCREW	STEEL
10	#9 X 1" PFH WOOD SCREW	STEEL
11	4" X 4" HINGE	STEEL
12	LATCH STRIKE PLATE	STEEL
13	DEADBOLT STRIKE PLATE	STEEL
15	OUTSWING THRESHOLD	ALUM/COMP
16	OUTSWING SIDELITE ADAPTER	PVC
22	#8 X 2-1/2" PFH WOOD SCREW	STEEL
27	#10 X 2" PFH SMS	STEEL
40	DOOR PANEL	-
50	SIDELITE PANEL	-
53	ALUMINUM ASTRAGAL	ALUM
54	ASTRAGAL STRIKE PLATE	STEEL
55	#8 X 1" PFH WS	STEEL

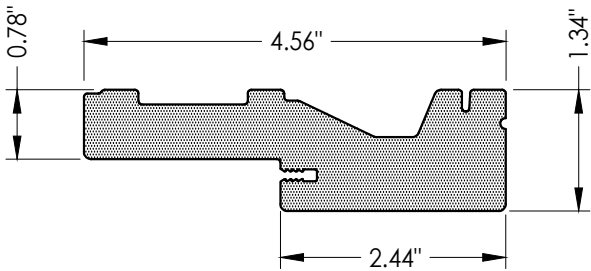
CONCRETE ANCHOR NOTES:

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:

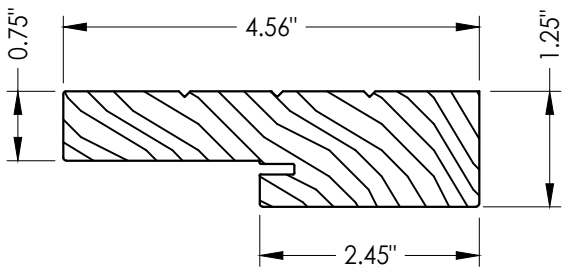
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW BUILDEX TAPCON®	3/16"	1-1/4"	3"	1-1/2"
	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®+	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

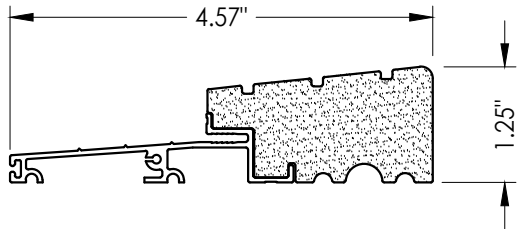
1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



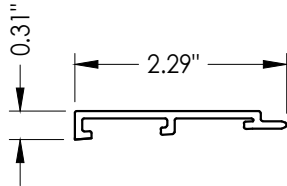
1 PVC JAMB



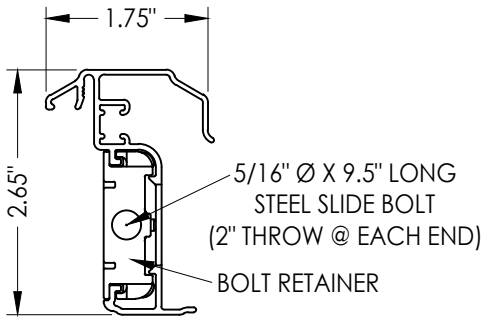
2 WOOD JAMB
FINGER JOINTED PINE



15 **OUTSWING THRESHOLD**
High-dam



16 OUTSWING SIDELITE ADAPTER



53 **ENDURA ASTRAGAL**
Ultimate Hurricane

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