



DIAMOND DOOR SERIES

FLUSH GLAZED FIBERGLASS DOOR w/ SIDELITES

INSWING / OUTSWING

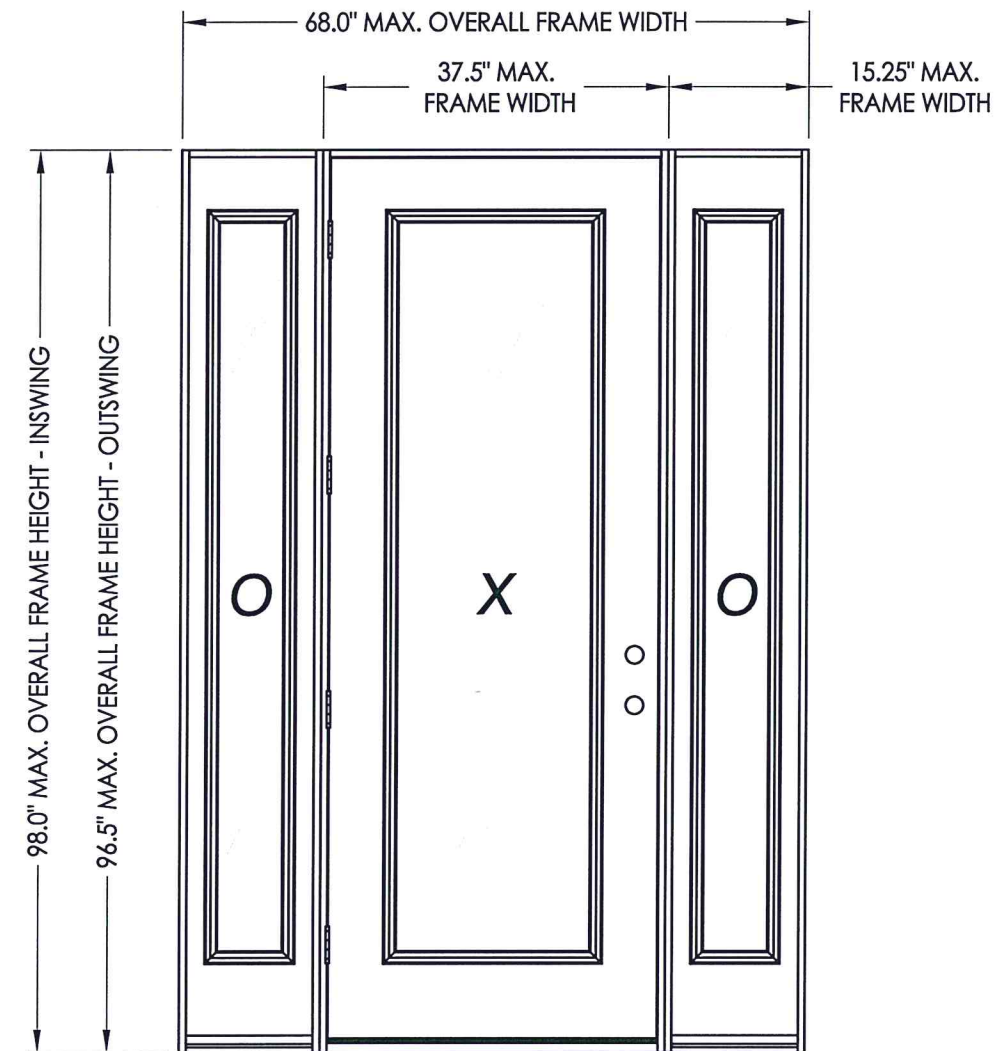
"NON-IMPACT"

GENERAL NOTES

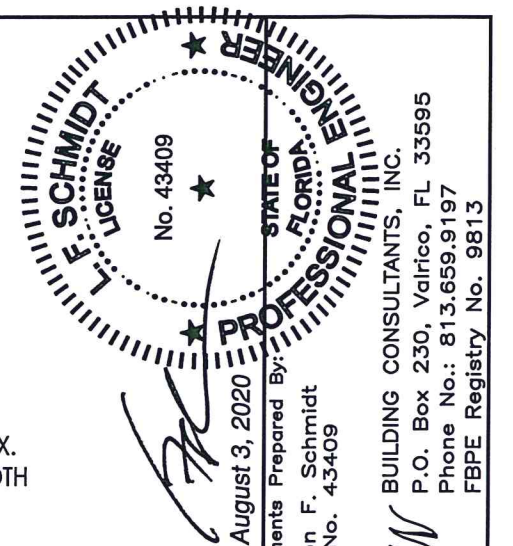
1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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.
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.

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2	Door panel details
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8	Frame anchoring - 1X buck masonry construction
9	Bill of materials, glazing detail & components



SWING	OVERALL FRAME DIMENSION	DOOR D.L.O. DIMENSION	SIDELITE D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
					POSITIVE	NEGATIVE
INSWING	68.0" x 98.0"	21.0" x 79.0"	7.0" x 79.0"	G1	+42.0	-48.0
OUTSWING	68.0" x 96.5"	21.0" x 79.0"	7.0" x 79.0"		+42.0	-42.0



August 3, 2020
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: DOERS FIBERGLASS DOOR
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS
3	7/30/20	UPDATE TO 7TH ED. (2020) FBC
2	5/15/19	ADD STEEL STUD ANCHORING
1	9/26/17	UPDATE TO 6TH ED. (2017) FBC

DATE: 09/22/15

SCALE: N.T.S.

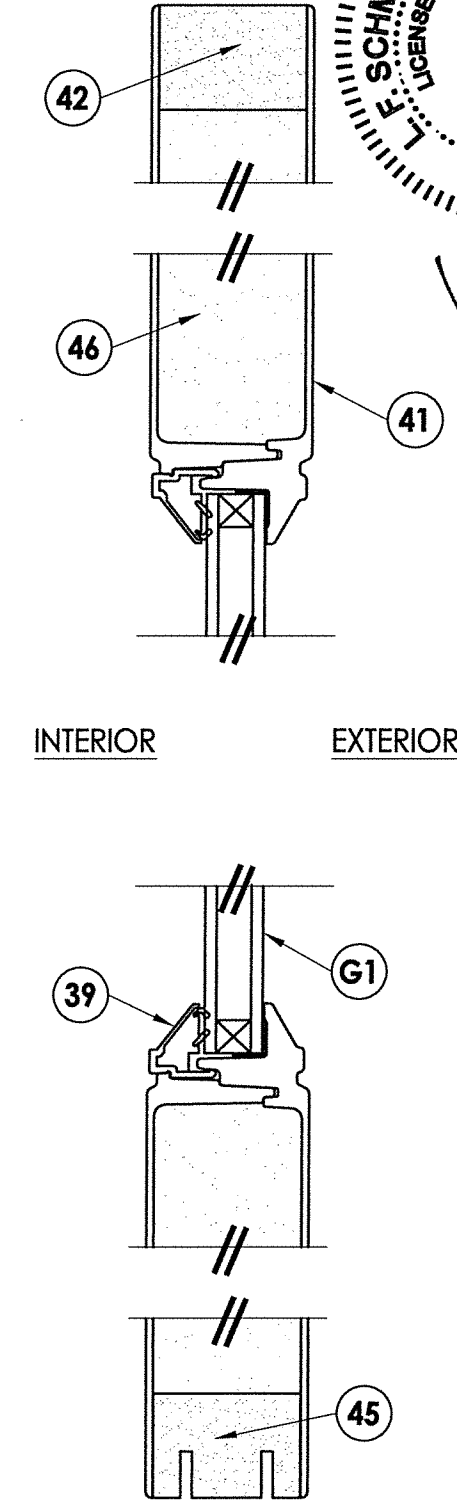
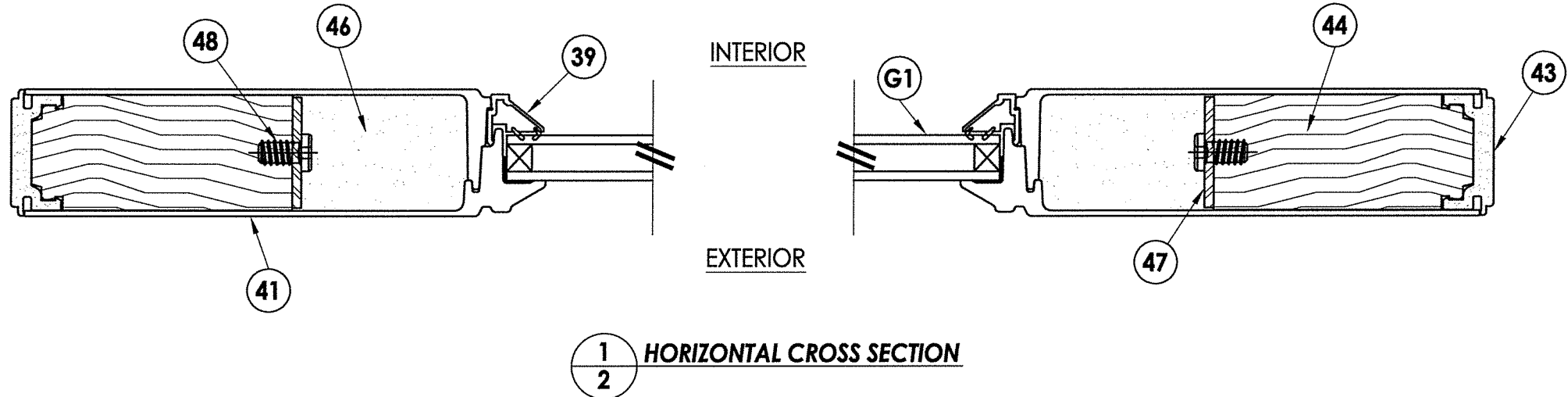
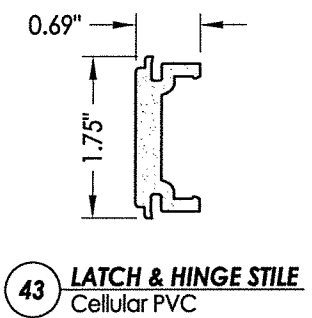
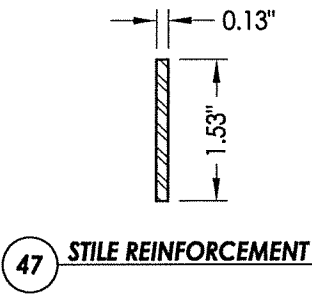
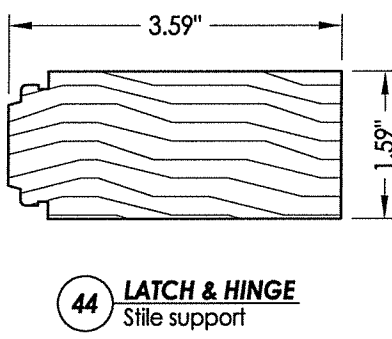
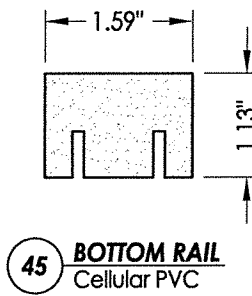
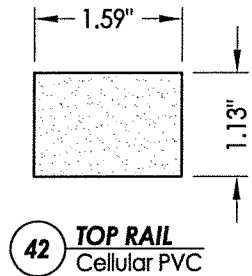
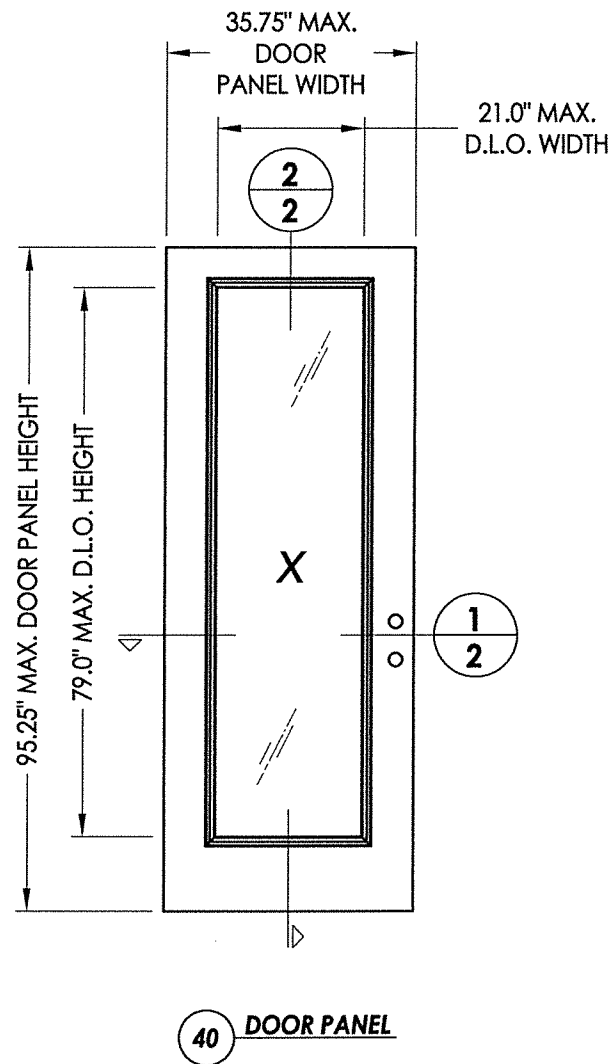
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-19007.8

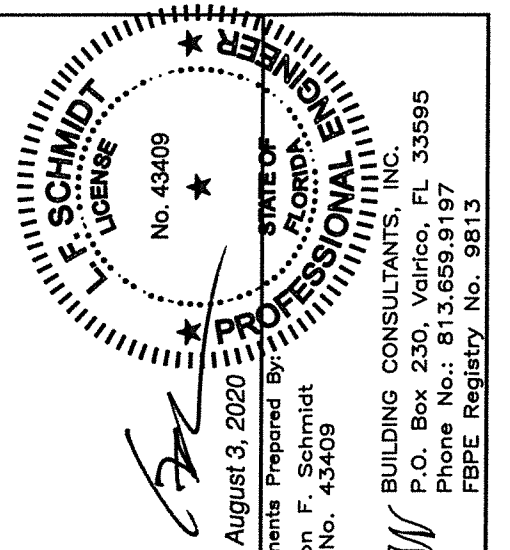
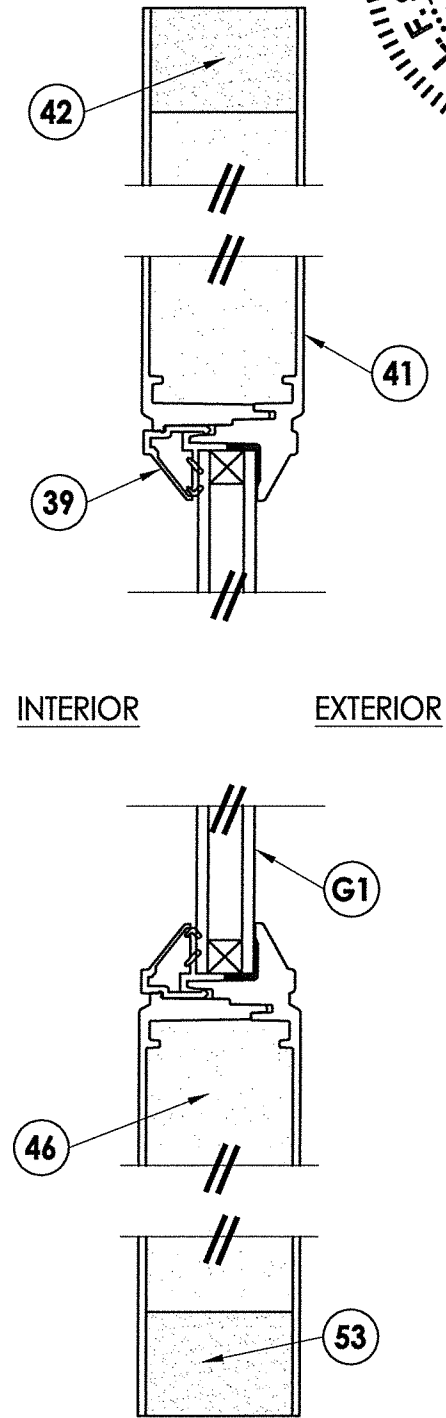
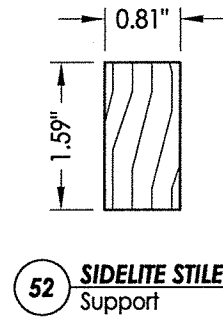
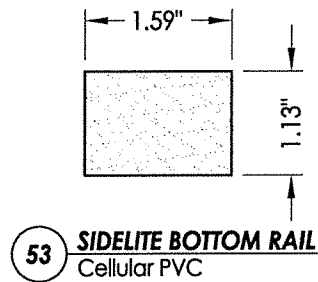
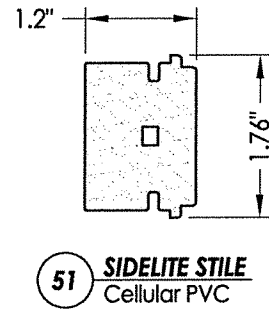
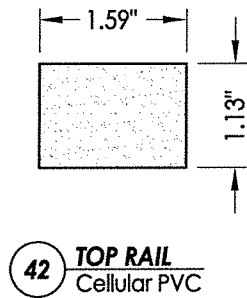
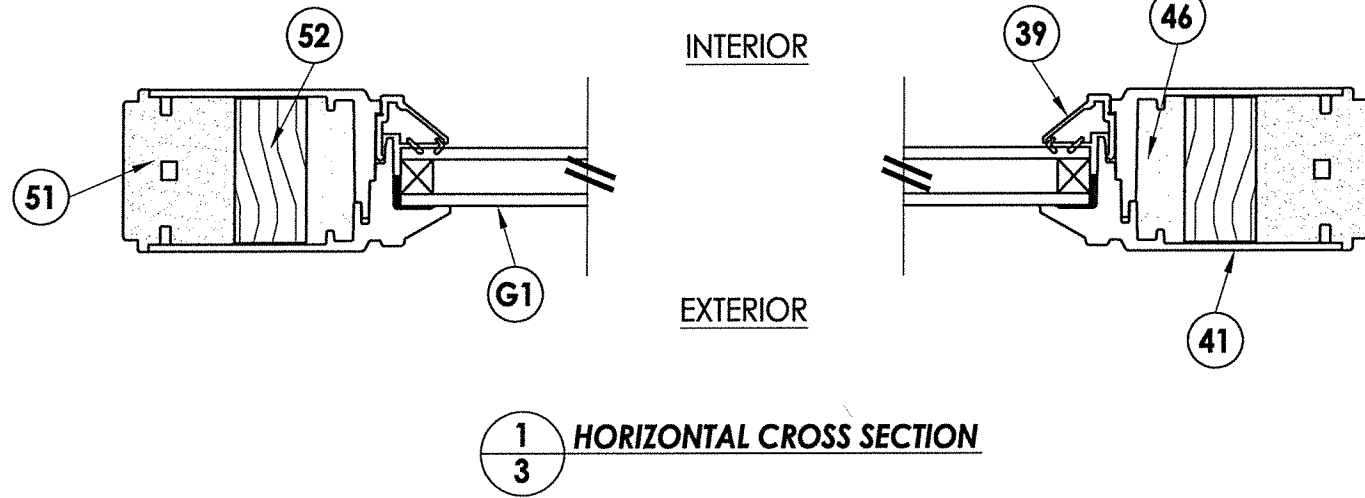
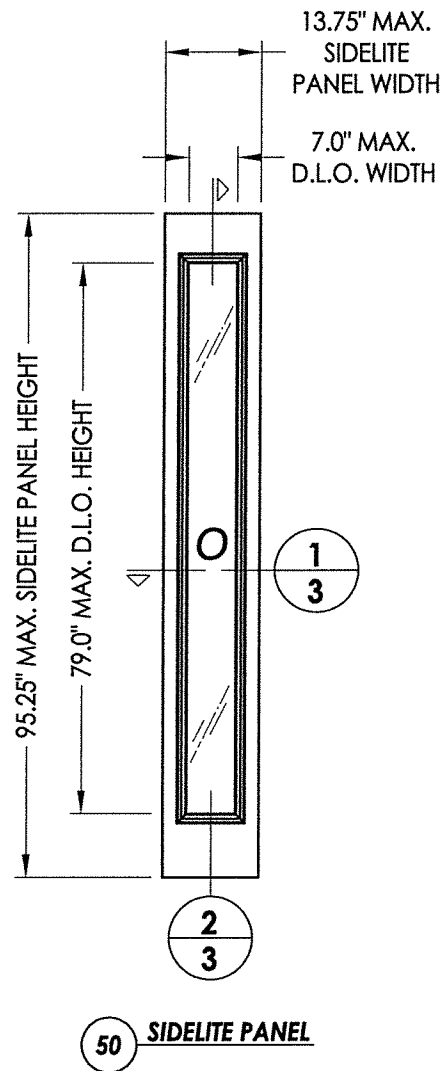
SHEET 1 OF 9

R:\Clients\Doers Permanent\A - Florida Product Approvals\FL-19007 Doors - Glazed\C - Drawings\FL 19007 (2020)\FL-19007.1-10.dwg, 2.8



FLORIDA
PROFESSIONAL ENGINEER
F. SCHMIDT
LICENSE
No. 43409
August 3, 2020
Documents Prepared By:
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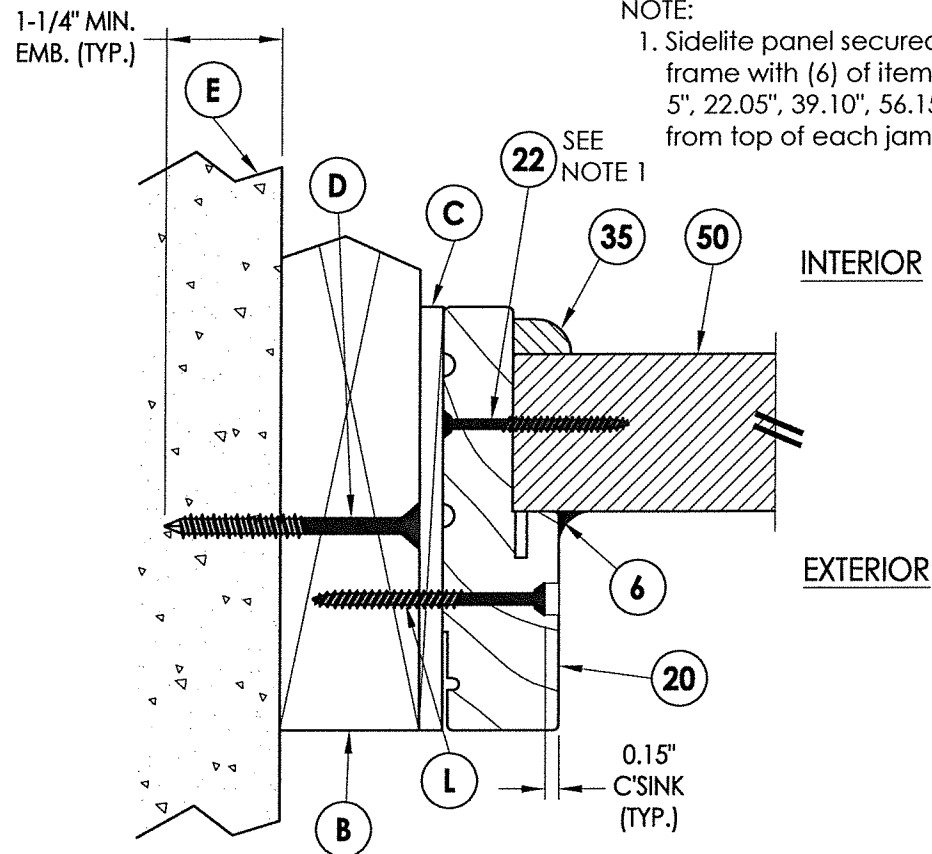
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PART OR ASSEMBLY:		DOOR PANEL DETAILS			
				LFS	
				LFS	
				JK	
				BY	
REVISIONS					
3	7/30/20	UPDATE TO 7TH ED. (2020) FBC		LFS	
2	5/15/19	ADD STEEL STUD ANCHORING		LFS	
1	9/26/17	UPDATE TO 6TH ED. (2017) FBC		JK	
NO.	DATE				
DATE: 09/22/15					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-19007.8					
SHEET 2 OF 9					



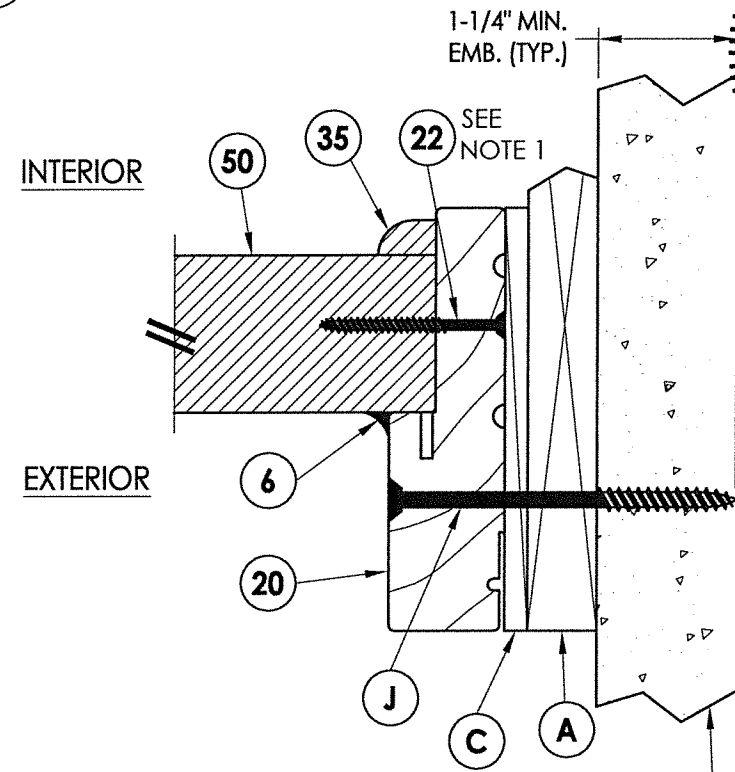
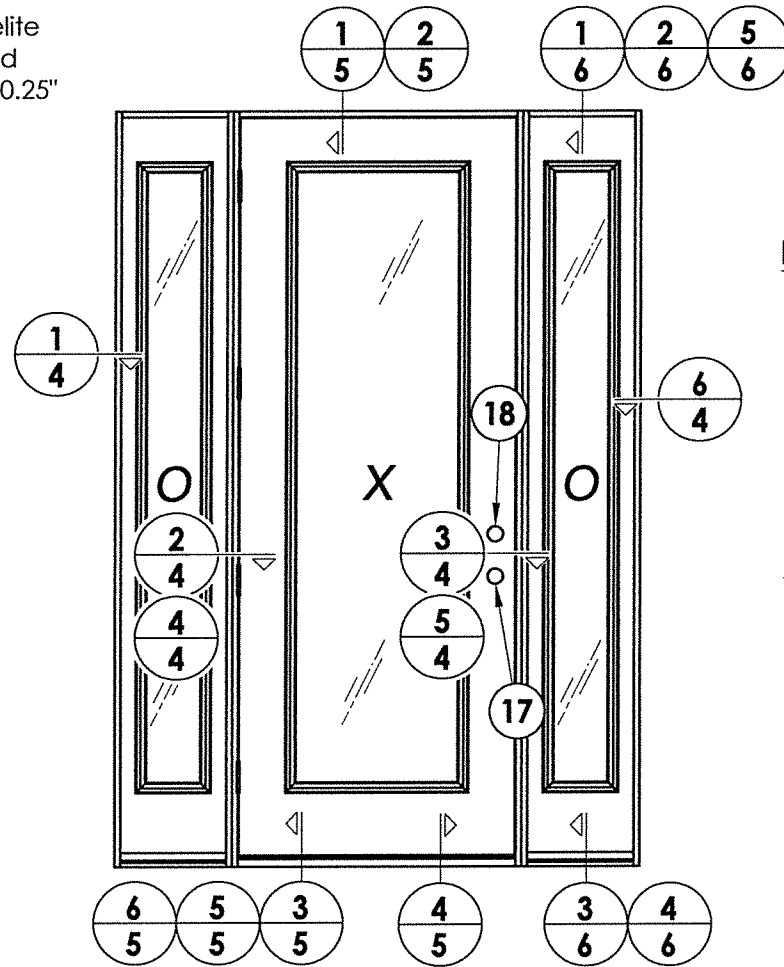
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PRODUCT:		DOERS FIBERGLASS DOOR	
PART OR ASSEMBLY:		SIDELITE PANEL DETAILS	
NO.	DATE	BY	REVISIONS
3	7/30/20	LFS	UPDATE TO 7TH ED. (2020) FBC
2	5/15/19	LFS	ADD STEEL STUD ANCHORING
1	9/26/17	JK	UPDATE TO 6TH ED. (2017) FBC
NO.	DATE	BY	REVISIONS
DATE: 09/22/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19007.8			
SHEET 3 OF 9			

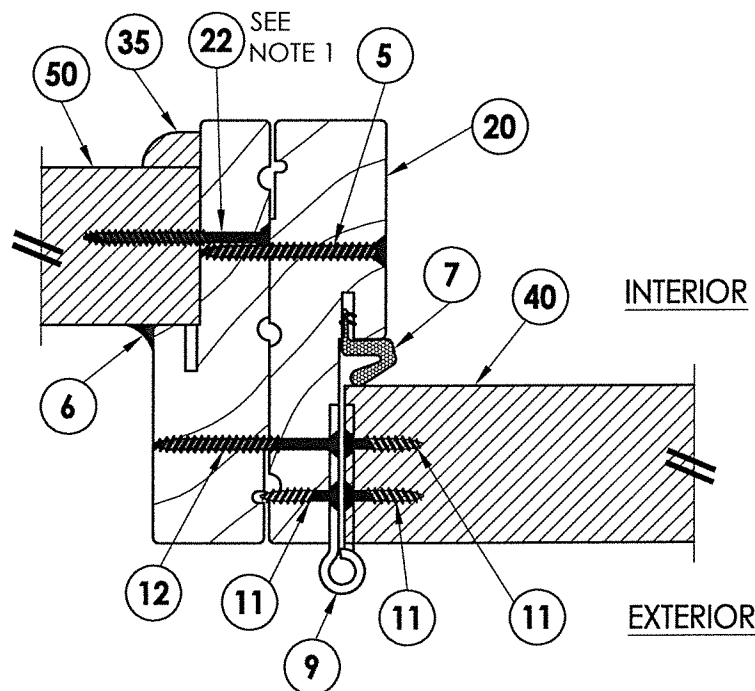
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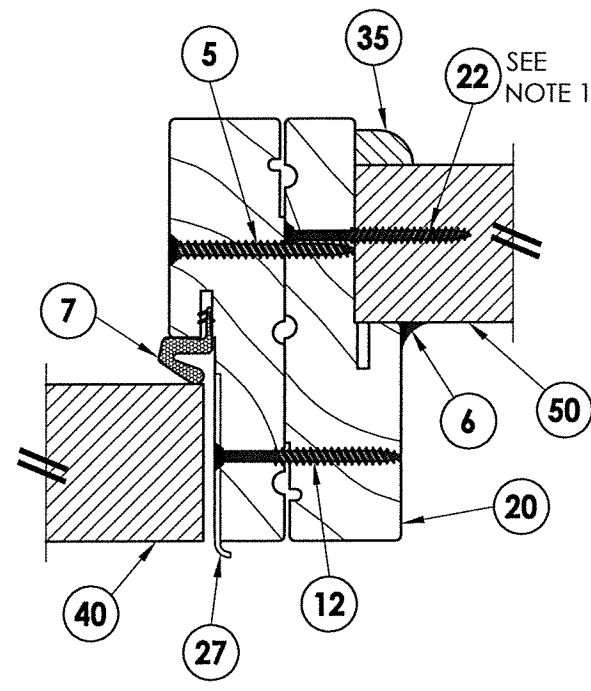
1
4 **HORIZONTAL CROSS SECTION**
Outswing shown - inswing also approved



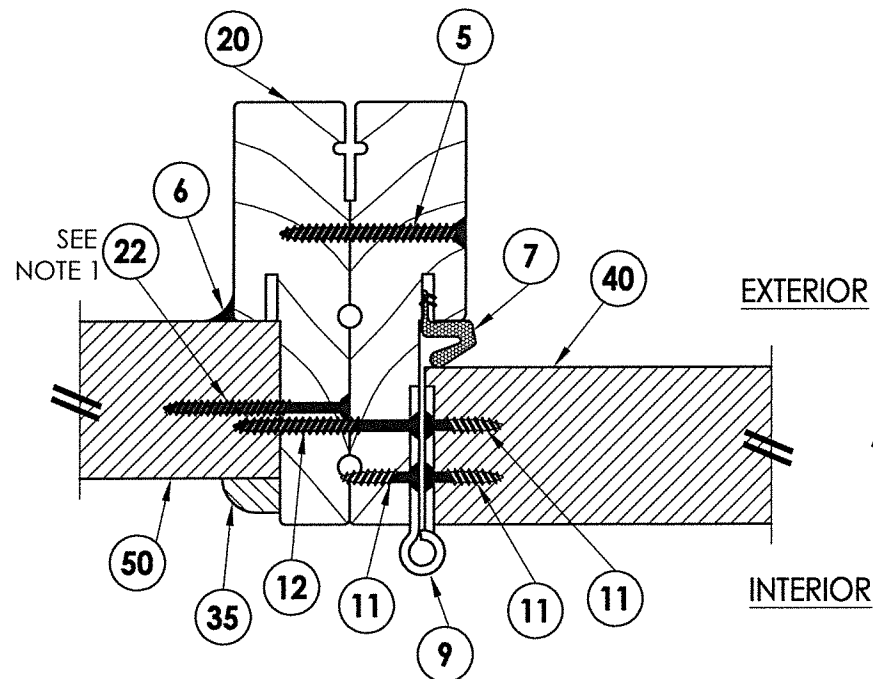
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4 **HORIZONTAL CROSS SECTION**
Shown w/1X sub-buck



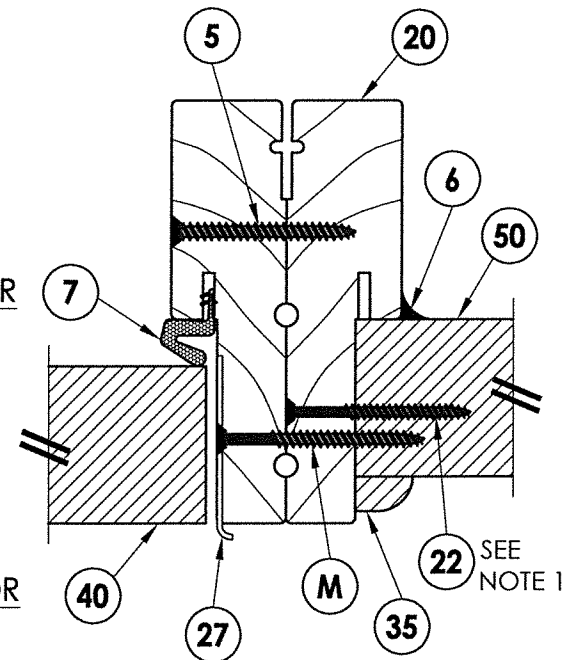
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4 **HORIZONTAL CROSS SECTION**
Outswing configuration



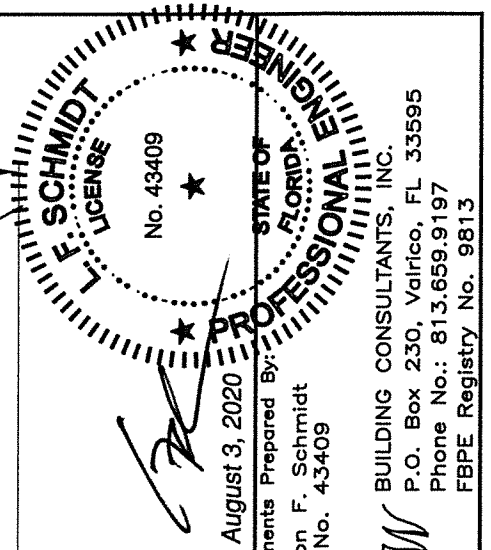
3
4 **HORIZONTAL CROSS SECTION**
Outswing configuration



4
4 **HORIZONTAL CROSS SECTION**
Inswing configuration



5
4 **HORIZONTAL CROSS SECTION**
Inswing configuration

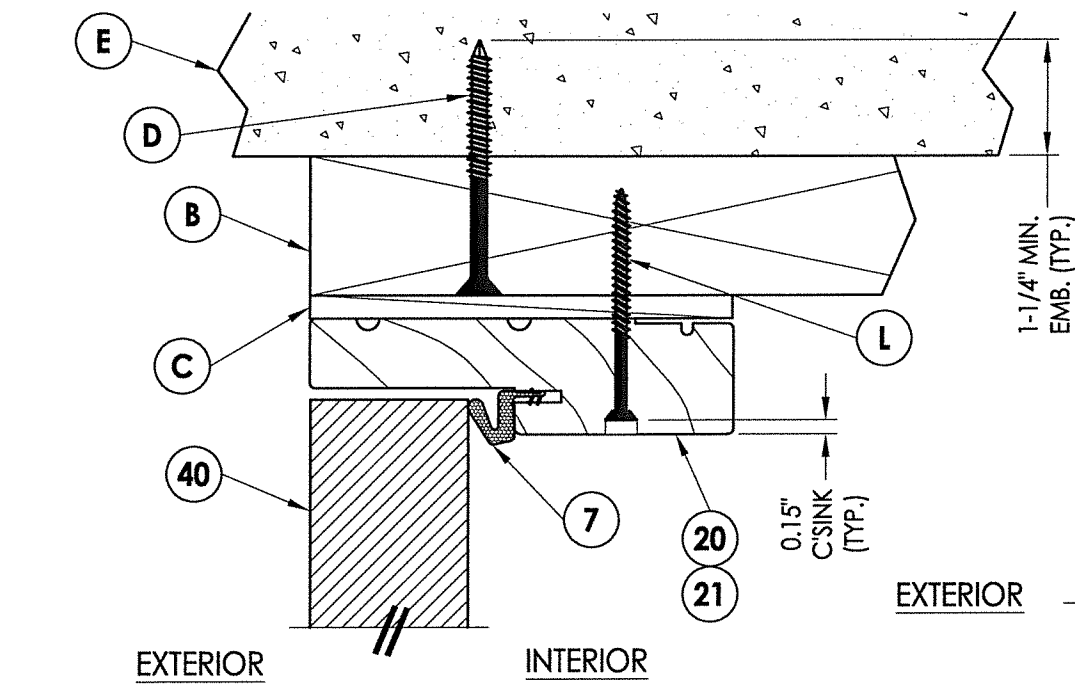


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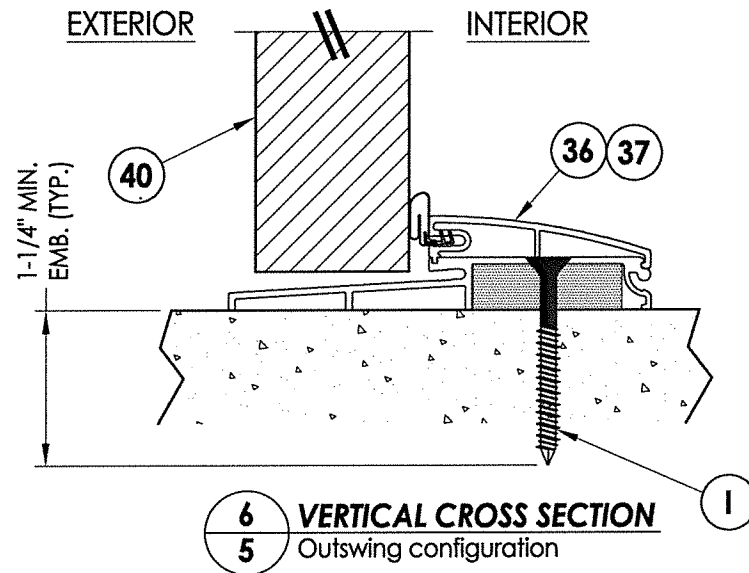
RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		DOORS		FIBERGLASS DOOR	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS			
NO.		DATE		BY	
3		7/30/20		LFS	
2		5/15/19		LFS	
1		9/26/17		JK	
DATE		09/22/15			
DATE		09/22/15			
SCALE		N.T.S.			
DWG. BY		JK			
CHK. BY		LFS			
DRAWING NO.:		FL-19007.8			
SHEET		4		OF 9	

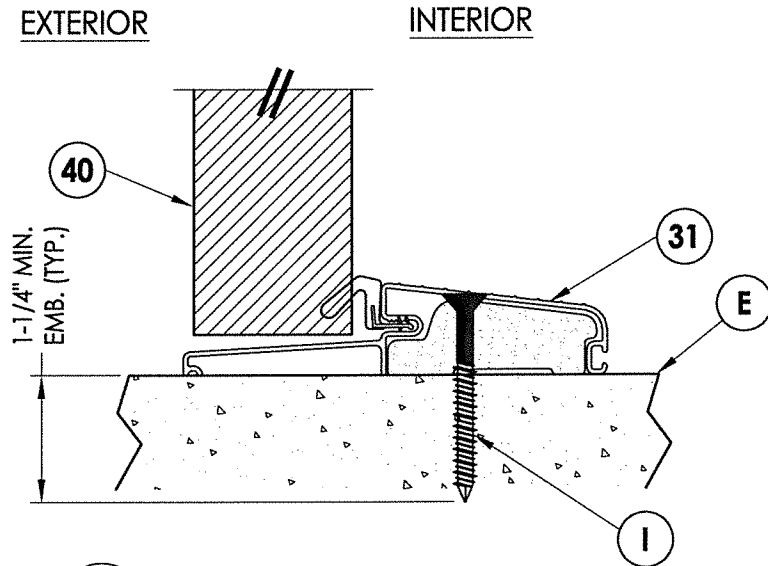
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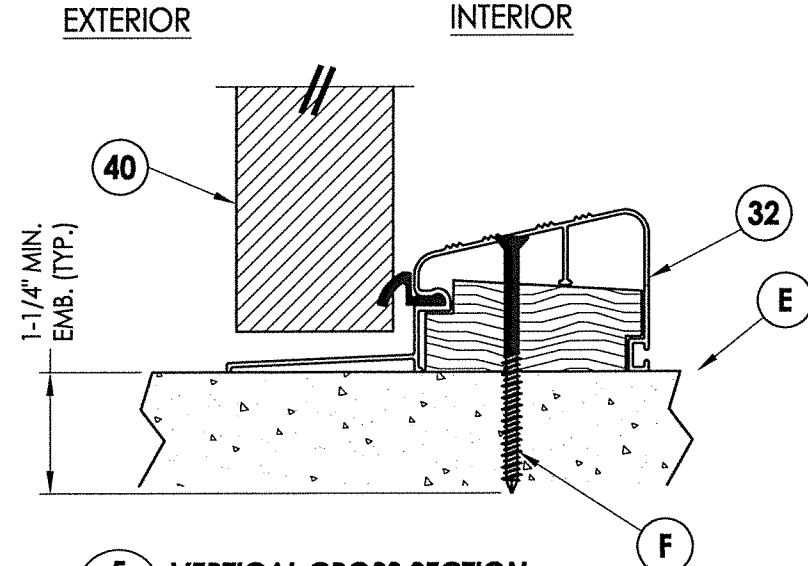
1 VERTICAL CROSS SECTION
5 Outswing shown - inswing also approved



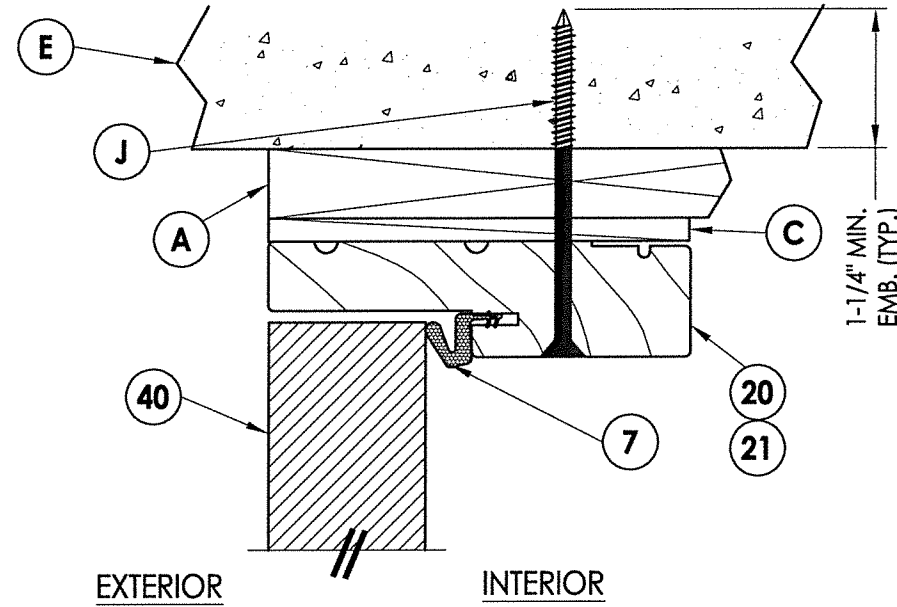
6 VERTICAL CROSS SECTION
5 Outswing configuration



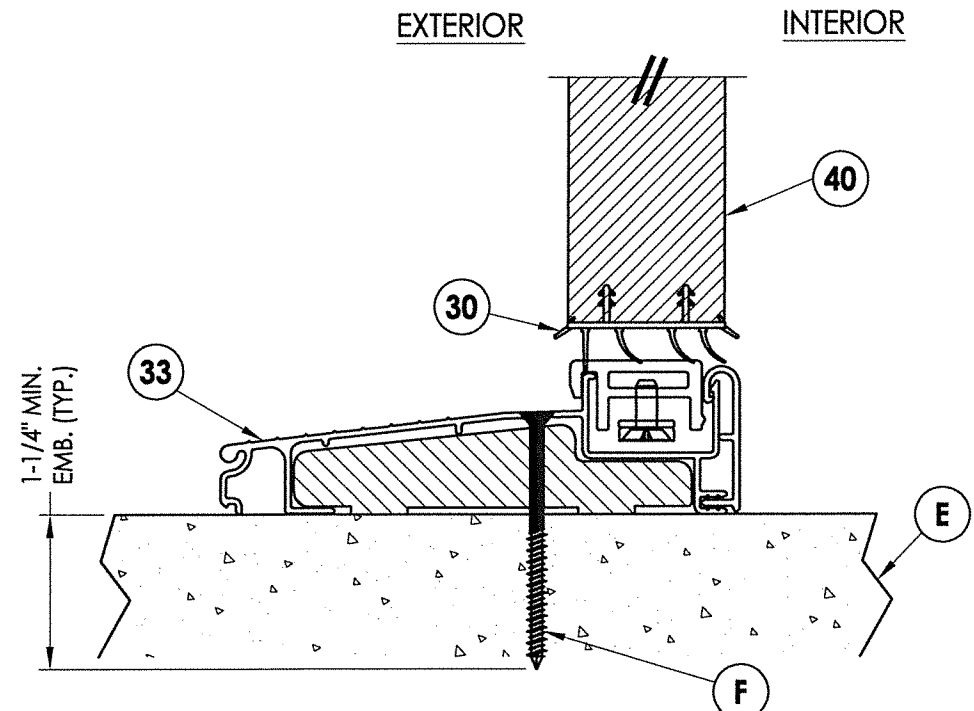
3 VERTICAL CROSS SECTION
5 Outswing configuration



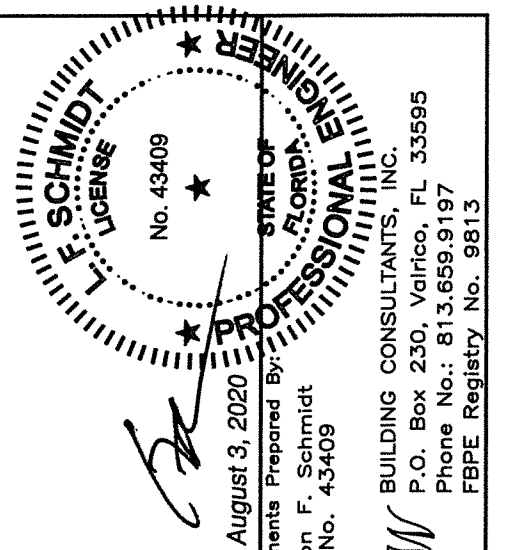
5 VERTICAL CROSS SECTION
5 Outswing configuration
(Where water infiltration requirements are specified)



2 VERTICAL CROSS SECTION
5 Shown w/1X sub-buck



4 VERTICAL CROSS SECTION
5 Inswing configuration



August 3, 2020
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		DOERS		FIBERGLASS DOOR	
				PART OR ASSEMBLY:	
				VERTICAL CROSS SECTIONS	
		LFS	LFS	JK	BY
		UPDATE TO 7TH ED. (2020) FBC	ADD STEEL STUD ANCHORING	UPDATE TO 6TH ED. (2017) FBC	
		DATE	DATE	DATE	
REVISIONS					
3	7/30/20	UPDATE TO 7TH ED. (2020) FBC			
2	5/15/19	ADD STEEL STUD ANCHORING			
1	9/26/17	UPDATE TO 6TH ED. (2017) FBC			
	NO.	DATE			
DATE: 09/22/15					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-19007.8					
SHEET 5 OF 9					

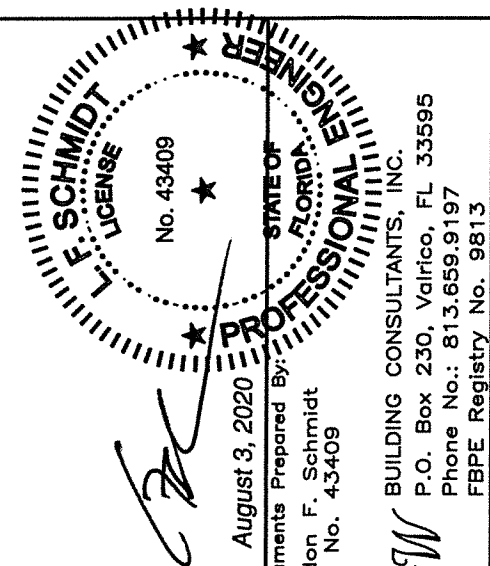
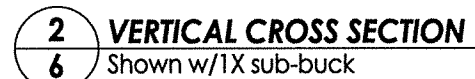


NOTE:

1. Sidelite panel secured to the sidelite frame with (2) of item #22 in the head and sill 3" from each end.



NOTE: Sheet Metal Screws must penetrate a min. of 3 threads through 2 sheets of metal.

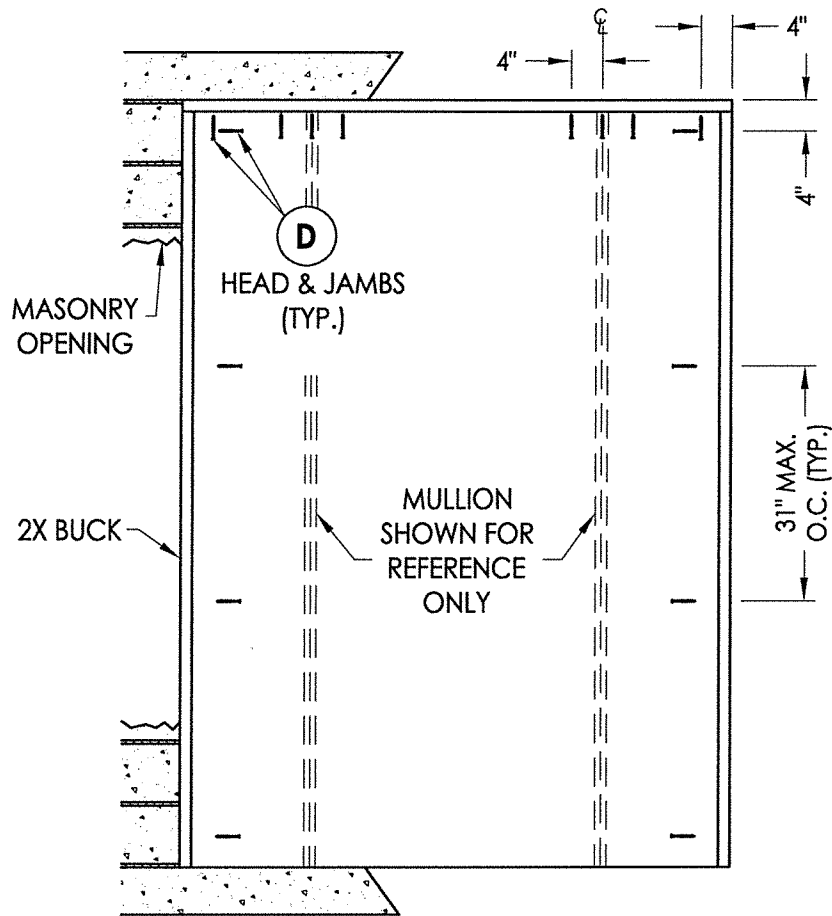


August 3, 2020

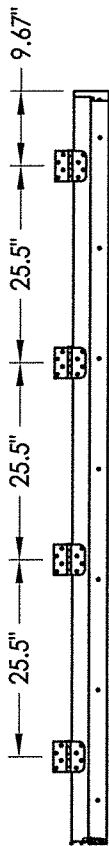
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

DATE: 09/22/15		PRODUCT: DOERS FIBERGLASS DOOR	
SCALE: N.T.S.		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19007.8			
SHEET 6 OF 9			

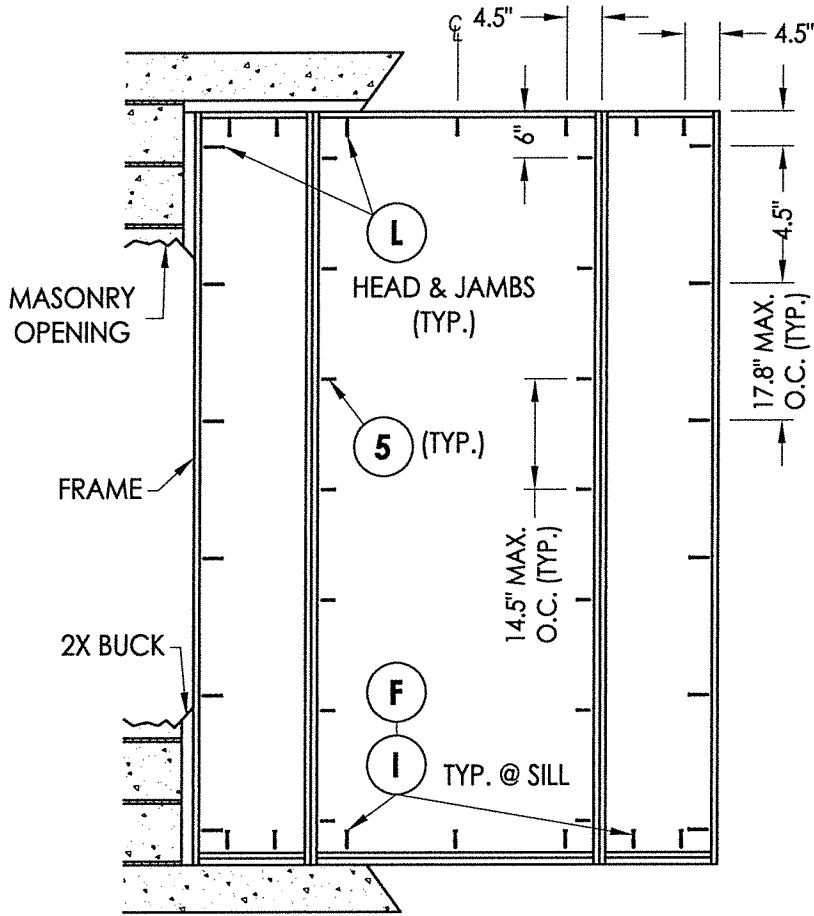
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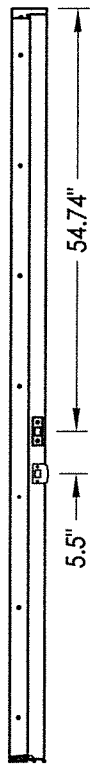
BUCK ANCHORING



HINGE JAMB



FRAME ANCHORING
Masonry 2X buck construction



STRIKE JAMB

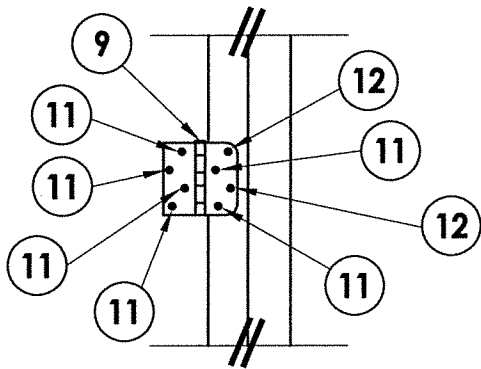
CONCRETE ANCHOR NOTES:

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:

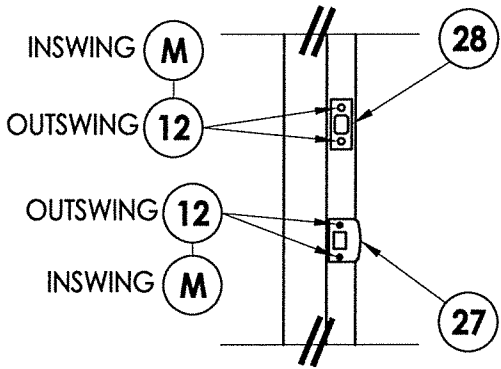
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
ELCO ULTRACON®	1/4"	1-1/4"	1"	4"

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.



HINGE DETAIL



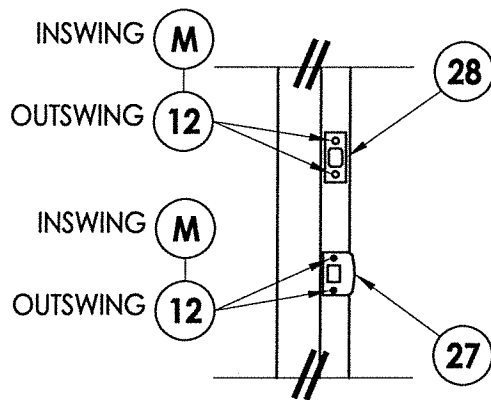
LATCH & DEADBOLT DETAIL

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 43409
August 3, 2020
Documents Prepared By: Lyndon F. Schmidt
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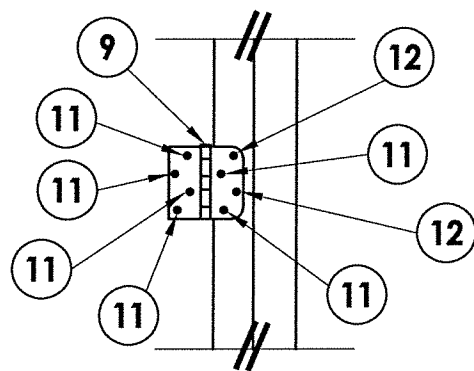
PRODUCT:	DOERS
	FIBERGLASS DOOR
PART OR ASSEMBLY:	BUCK & FRAME ANCHORING 2X BUCK MASONRY CONSTRUCTION

NO.	DATE	REVISIONS
3	7/30/20	UPDATE TO 7TH ED. (2020) FBC
2	5/15/19	ADD STEEL STUD ANCHORING
1	9/26/17	UPDATE TO 6TH ED. (2017) FBC

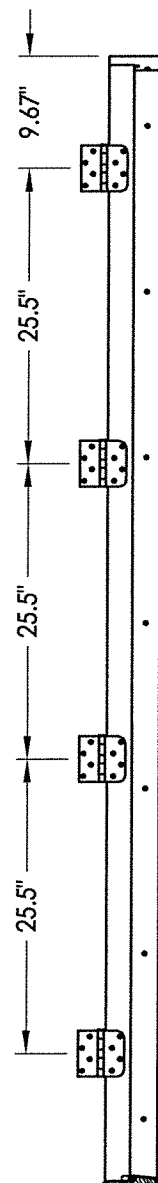
DATE:	09/22/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-19007.8
SHEET	7 OF 9



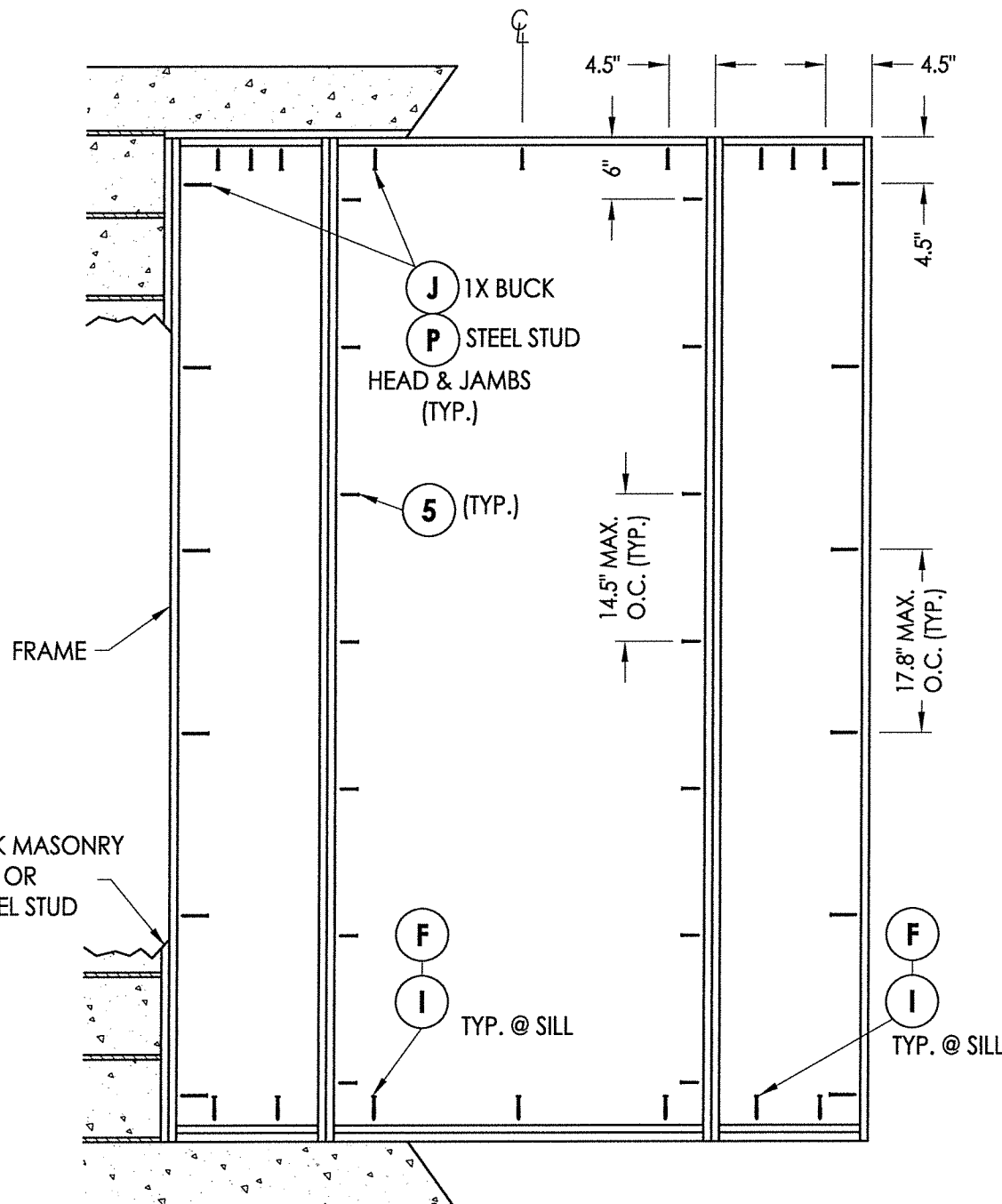
LATCH & DEADBOLT DETAIL



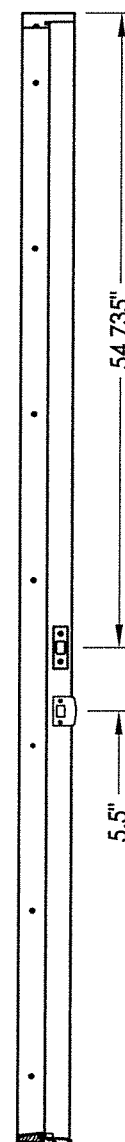
HINGE DETAIL



HINGE JAMB



FRAME ANCHORING
Masonry 1X buck Construction
Steel Stud Construction



STRIKE JAMB

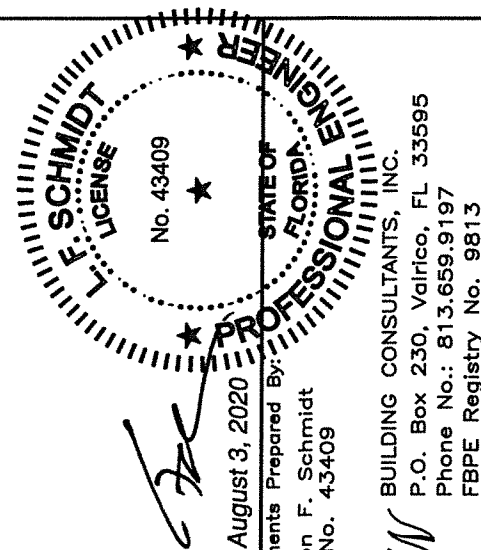
CONCRETE ANCHOR NOTES:

- 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"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

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.



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FBPE Registry No. 9813

PRODUCT: DOERS FIBERGLASS DOOR

PART OR ASSEMBLY:
FRAME ANCHORING 1X BUCK MASONRY CONSTRUCTION

REVISIONS

NO.	DATE	BY
3	7/30/20	LFS
2	5/15/19	LFS
1	9/26/17	JK

DATE: 09/22/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-19007.8

SHEET 8 OF 9

