



A SENNECA COMPANY

HURRICANE SERIES FIBERGLASS DOUBLE DOOR OUTSWING "IMPACT"

DR-981

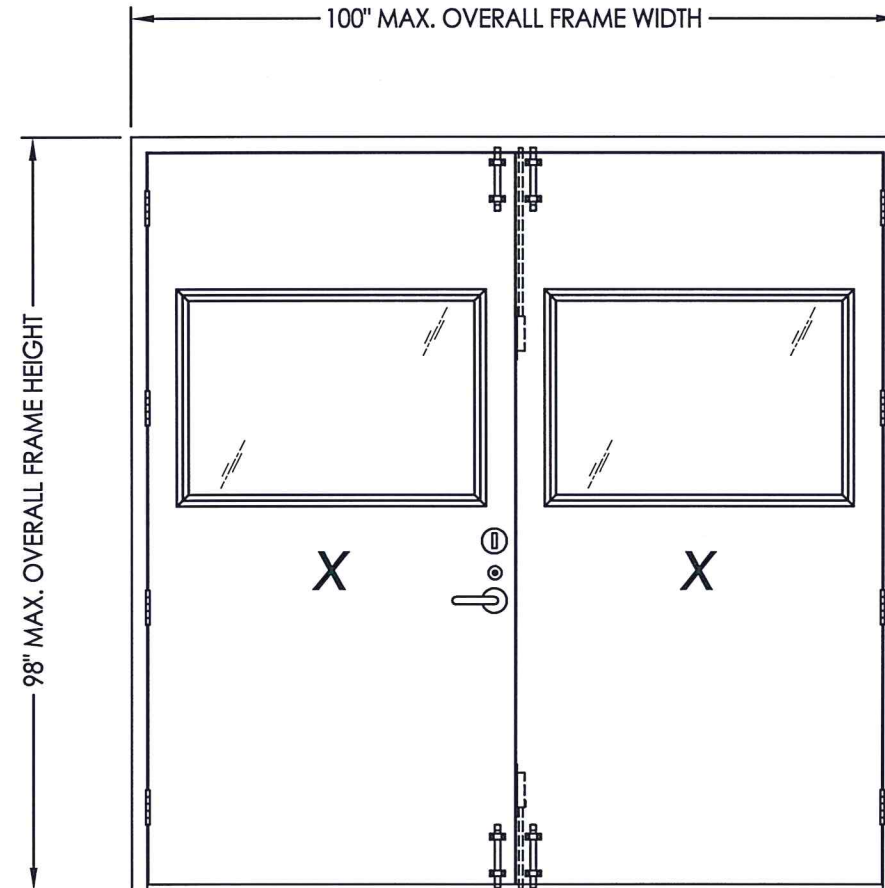
EVALUATED FOR USE IN THE STATE OF TEXAS

The Fiberglass Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. This system has been tested and evaluated as a large missile impact protective system for installation in areas that require wind borne debris protection. This product meets missile level "D" as defined in ASTM E 1996.
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. Conditions not covered by this drawing are subject to further engineering analysis.

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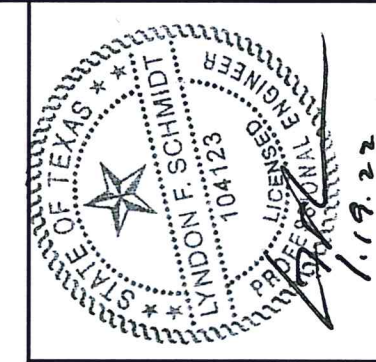
SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details
3	Horizontal cross sections
4	Vertical cross sections
5	Frame anchoring & hardware details
6	Bill of materials & components



GLAZED PANELS SHOWN
(OPAQUE SIMILAR)

MAX FRAME DIMENSION	DOOR TYPE	DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE
100" x 98"	OPAQUE	+90.0	-90.0
100" x 98"	GLAZED	+90.0	-90.0

SURFACE BOLTS REQUIRED @ TOP & BOTTOM OF EACH DOOR



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P.O. Box 230 Vairico FL 33595
Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852

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

NO.	DATE	REVISIONS
1	1/19/22	UPDATE TO 2018 IBC/IRC
		LFS BY

DATE: 5/14/18

SCALE: N.T.S.

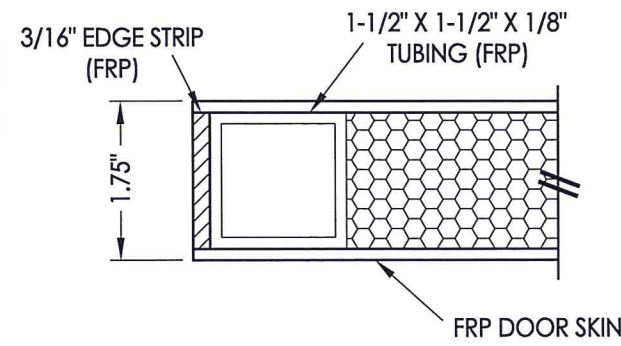
DWG. BY: JK

CHK. BY: LFS

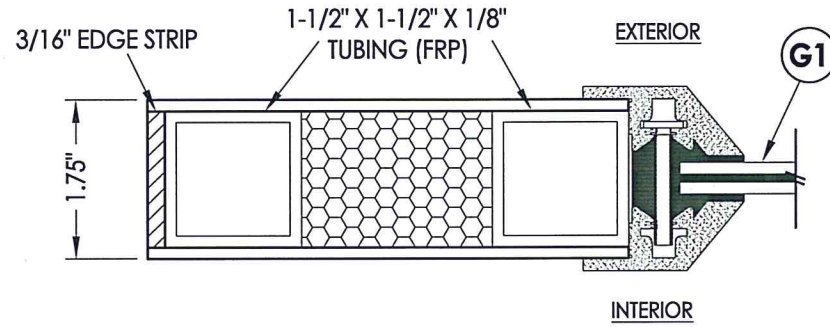
DRAWING NO.: TX-4848

SHEET 1 OF 6

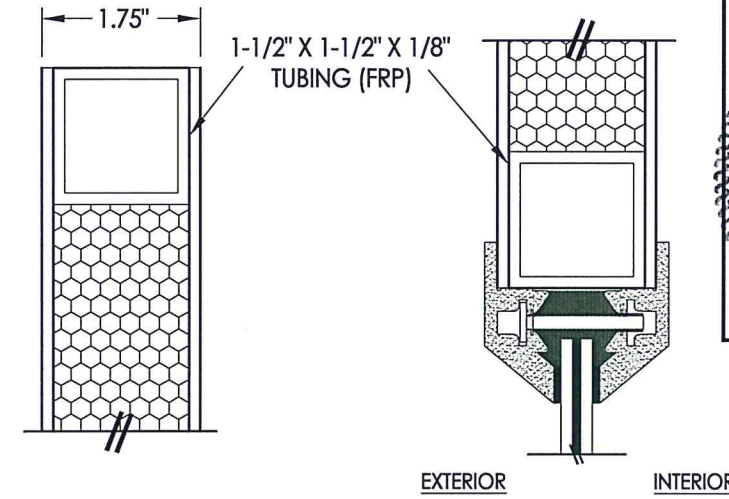
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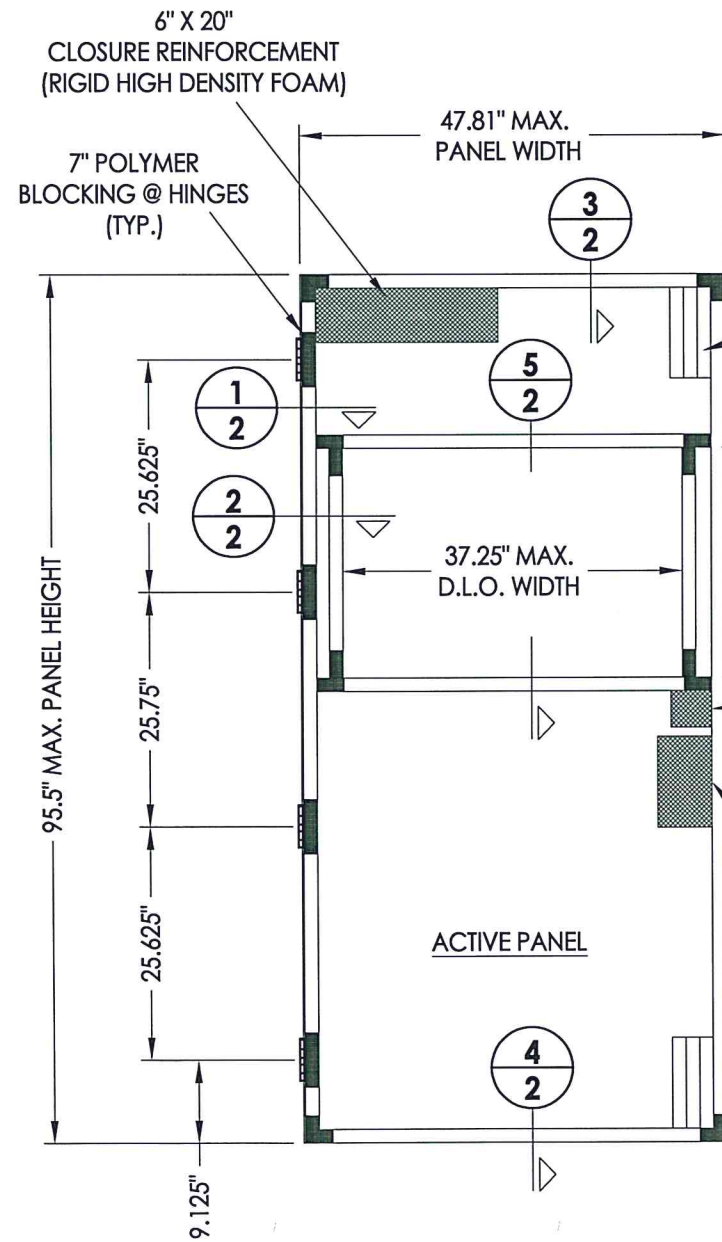
1
2 HORIZONTAL CROSS SECTION



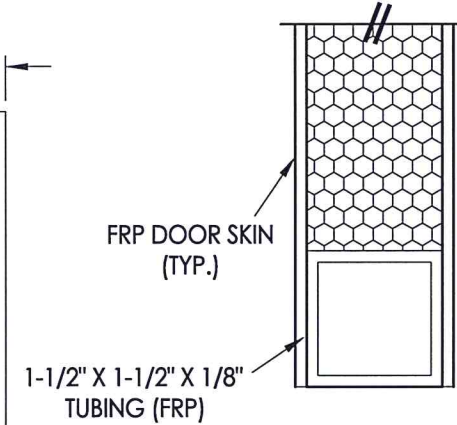
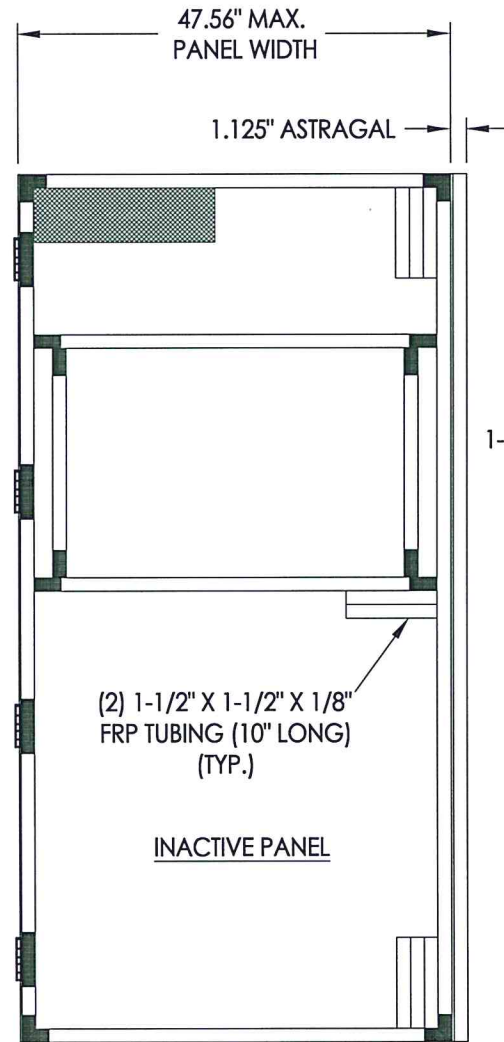
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2 HORIZONTAL CROSS SECTION



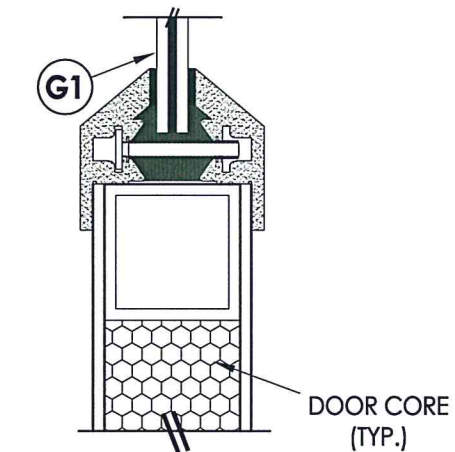
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2 VERTICAL CROSS SECTION



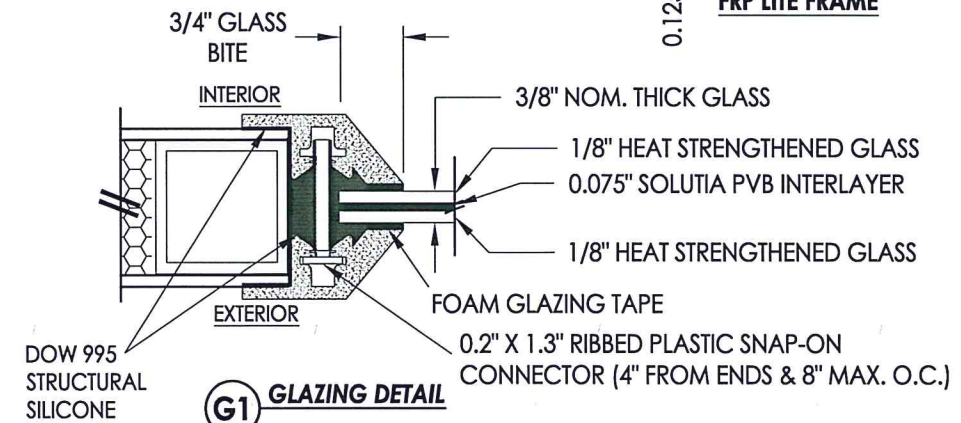
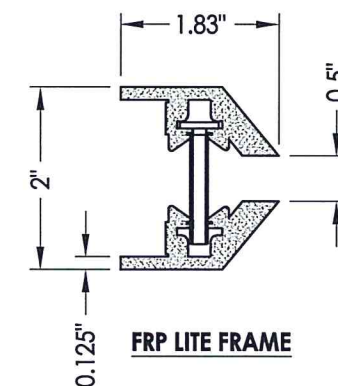
40 FIBERGLASS DOOR PANELS
TIGER DOOR



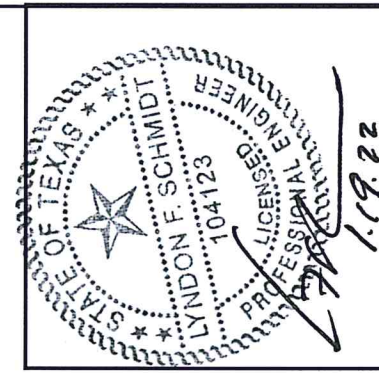
4
2 VERTICAL CROSS SECTION



5
2 VERTICAL CROSS SECTION



G1 GLAZING DETAIL



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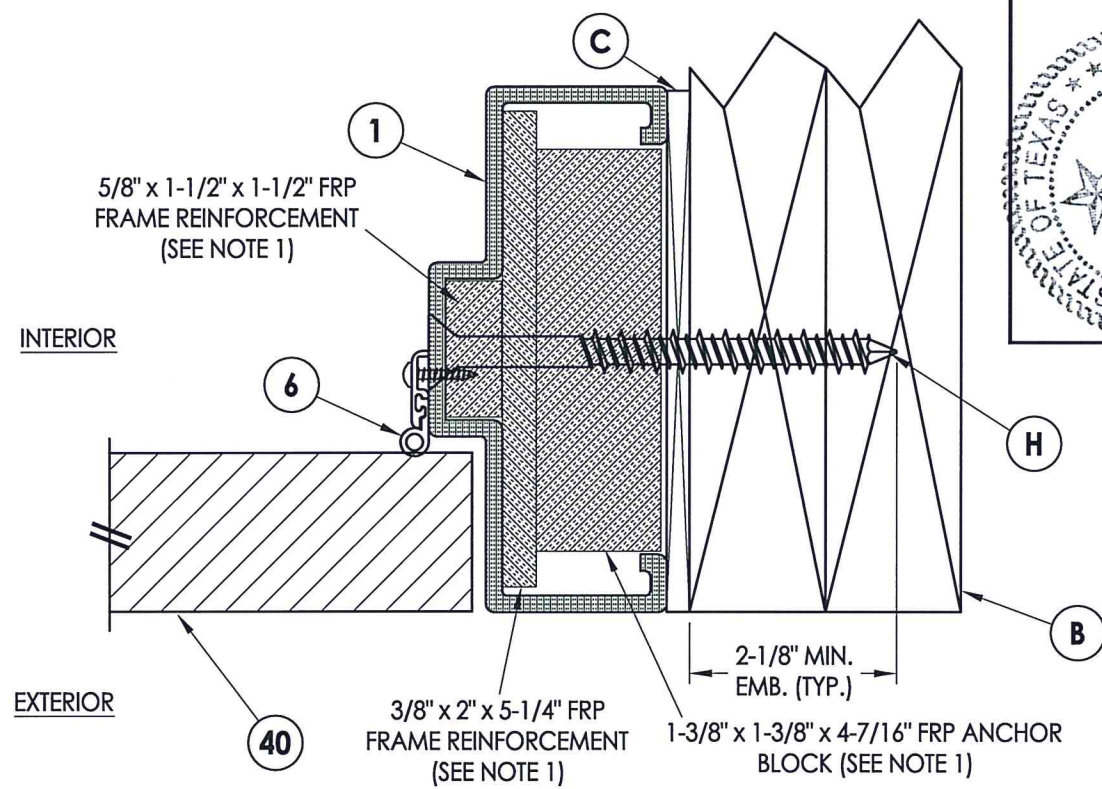
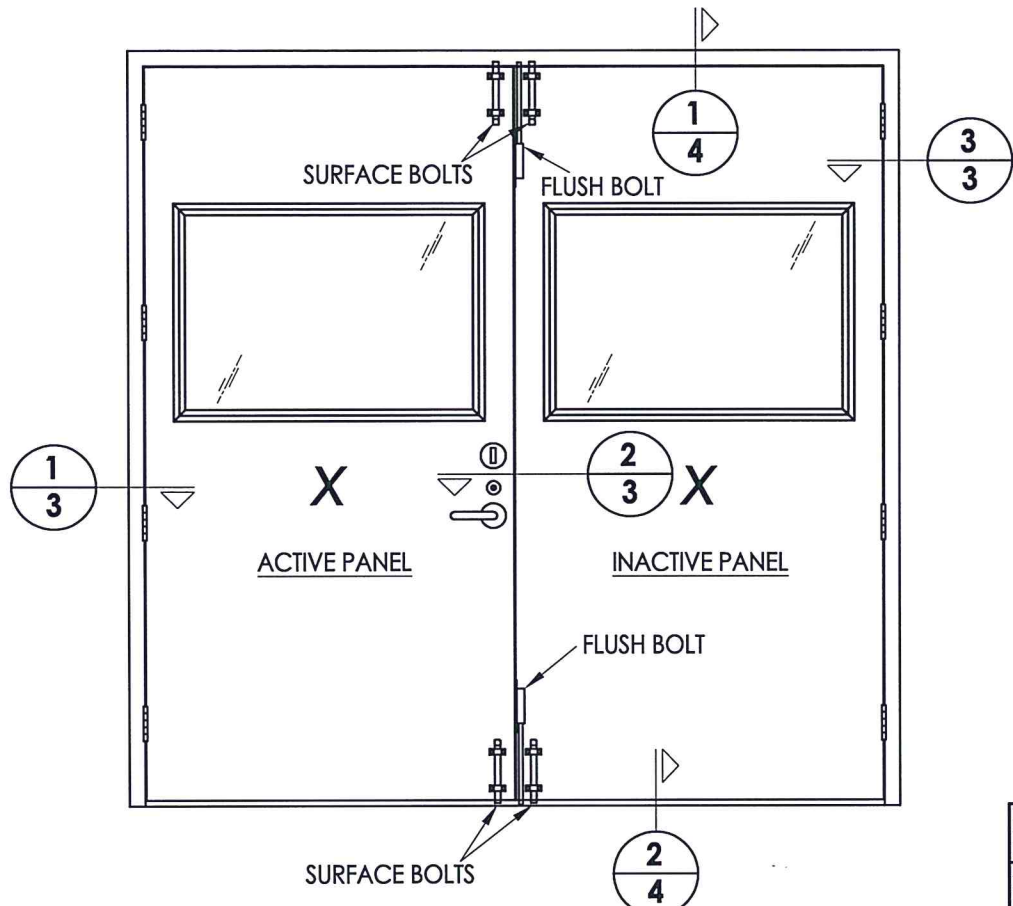
PRODUCT:	FIBERGLASS DOOR
PART OR ASSEMBLY:	DOOR PANEL DETAILS

NO.	DATE	BY	REVISIONS
1	1/19/22	LFS	UPDATE TO 2018 IBC/IRC

DATE:	5/14/18
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4848
SHEET	2 OF 6

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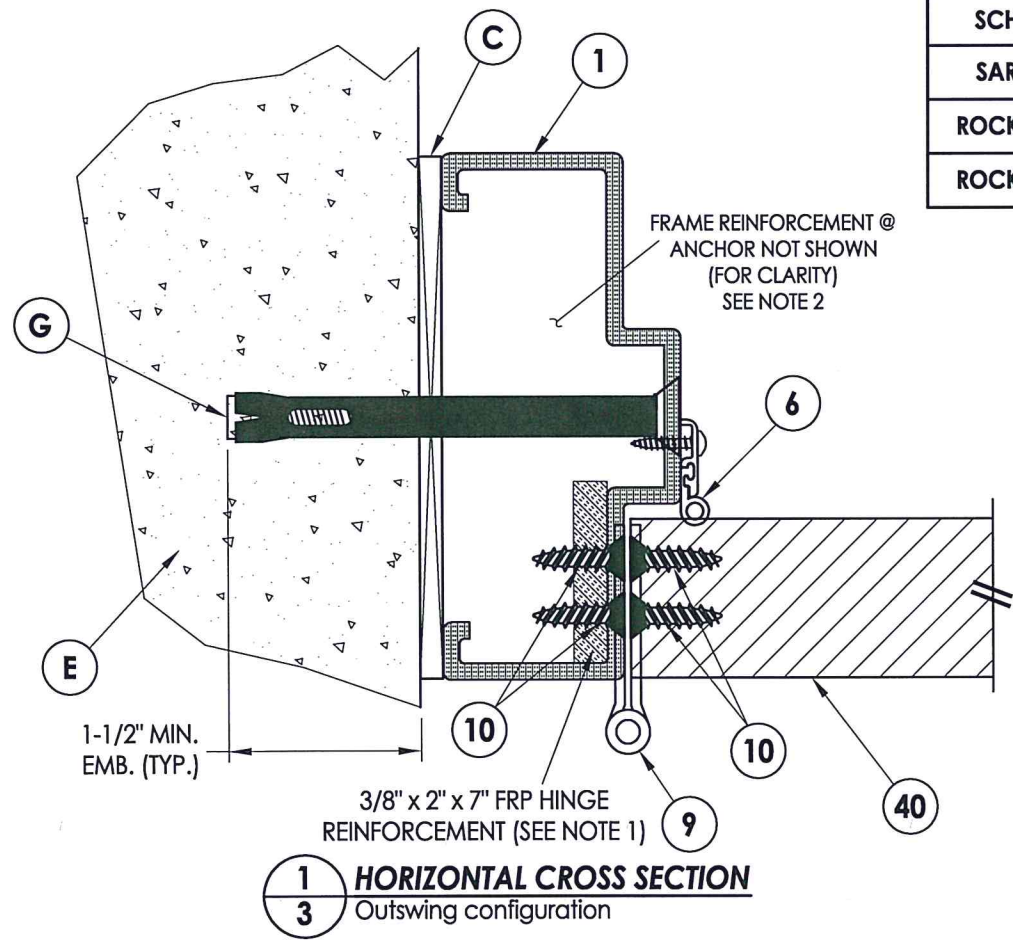
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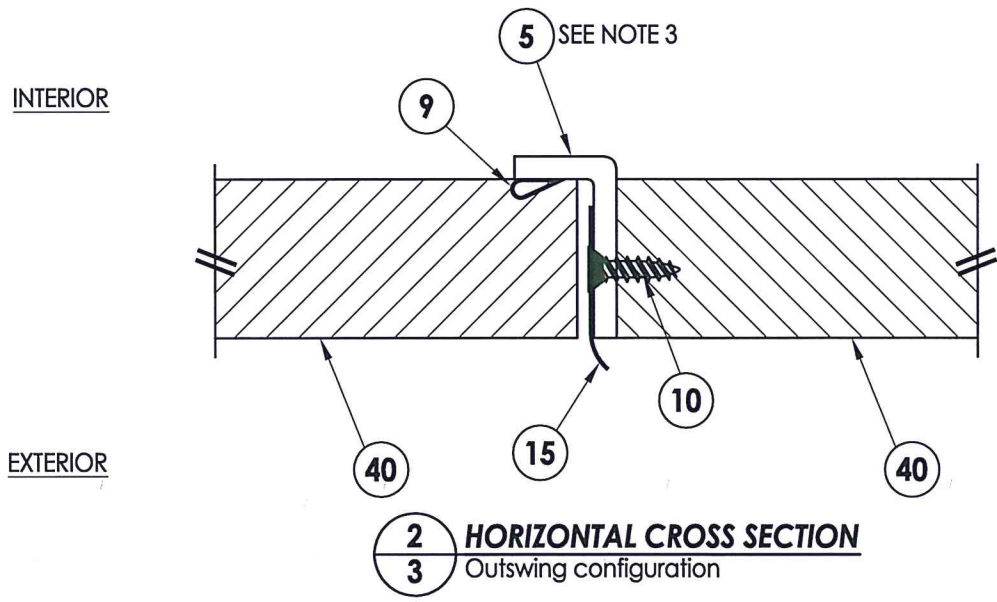
HARDWARE CHART		
MANUFACTURER	MODEL	
SCHLAGE	MORTISE LOCK:	L 9000 SERIES
SARGENT	DEADBOLT:	480 SERIES
ROCKWOOD	SURFACE BOLTS:	580-8
ROCKWOOD	FLUSH BOLTS:	556WS

3 HORIZONTAL CROSS SECTION
3 Outswing configuration

- NOTES:
1. ALL FRP REINFORCEMENTS/ANCHOR BLOCKS ARE SECURED TO THE FRAME WITH LORD 7542A/B URETHANE ADHESIVE.
 2. FRAME REINFORCEMENTS SHOWN IN SECTION 3/3 ARE REQUIRED AT EACH ANCHOR LOCATION.
 3. FRP ASTRAGAL IS SECURED TO THE INACTIVE DOOR WITH LORD 7542/7545 URETHANE ADHESIVE.



1 HORIZONTAL CROSS SECTION
3 Outswing configuration



2 HORIZONTAL CROSS SECTION
3 Outswing configuration

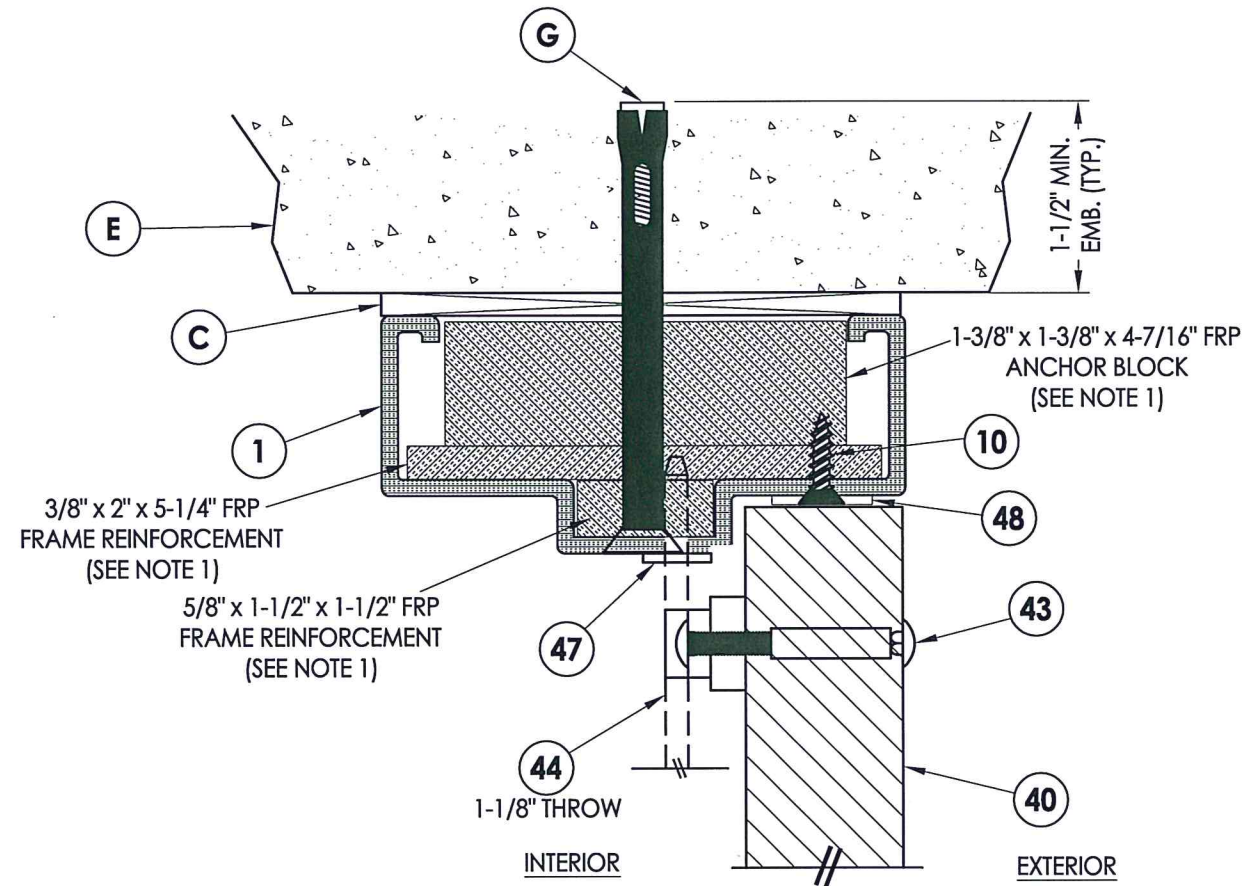


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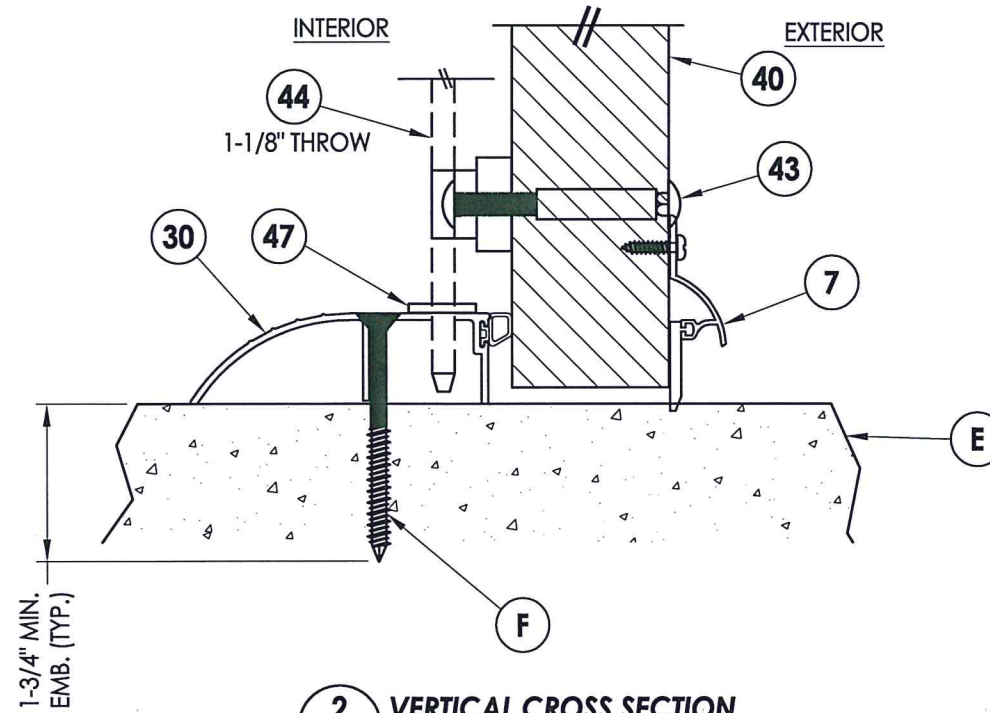
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairico FL. 33595
Phone No.: 813.659.9197

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PRODUCT:	FIBERGLASS DOOR	
PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS	
NO.	DATE	REVISIONS
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		LFS BY
DATE: 5/14/18		
SCALE: N.T.S.		
DWG. BY: JK		
CHK. BY: LFS		
DRAWING NO.: TX-4848		
SHEET 3 OF 6		

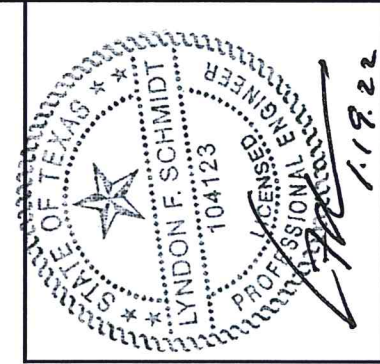


1 VERTICAL CROSS SECTION
4 Outswing configuration



2 VERTICAL CROSS SECTION
4 Outswing Sill

NOTES:
 1. ALL FRP REINFORCEMENTS/ANCHOR BLOCKS ARE SECURED TO THE FRAME WITH LORD 7542A/B URETHANE ADHESIVE.



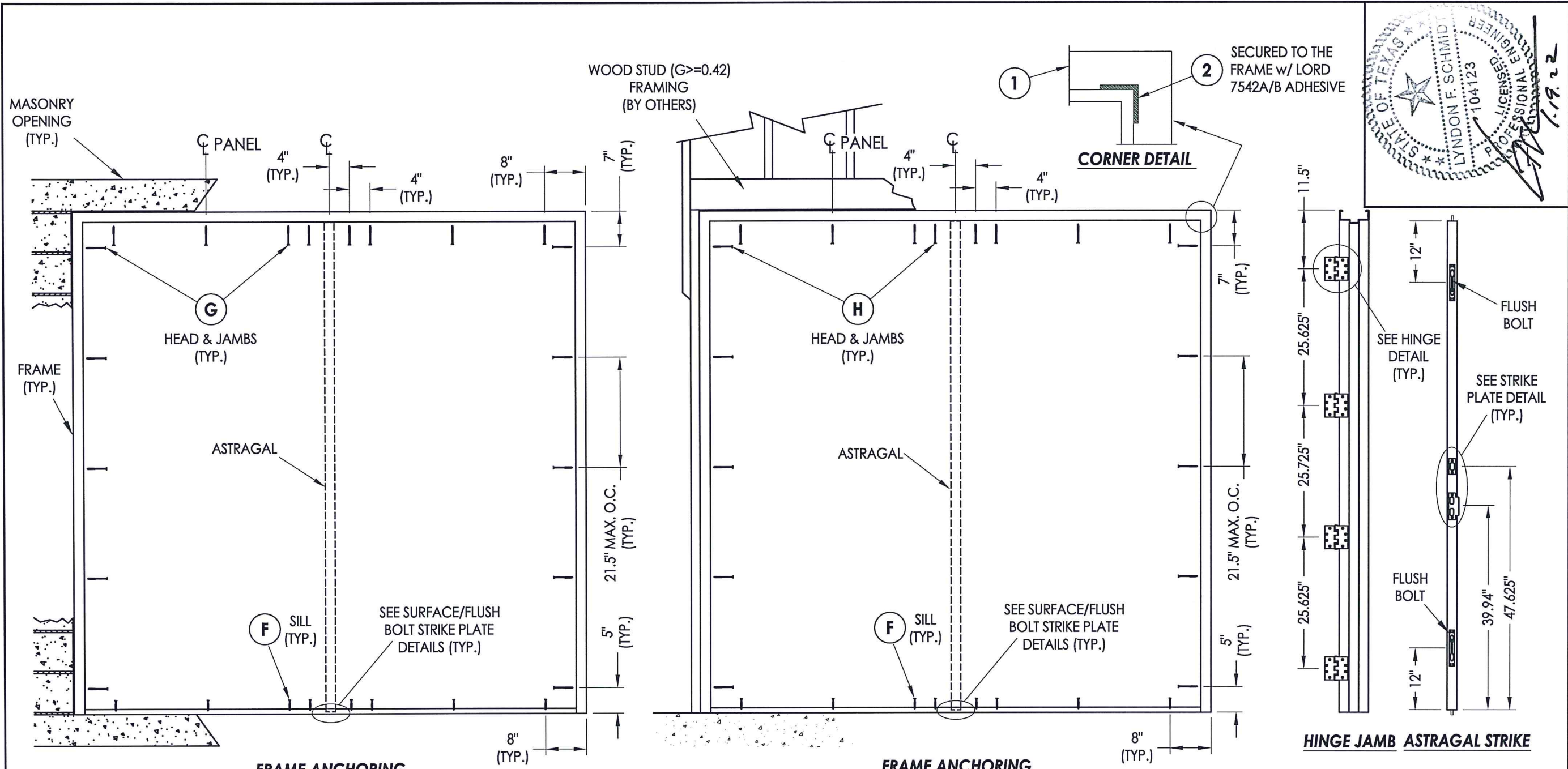
Documents Prepared By: Lyndon F. Schmidt, P.E.
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PRODUCT:		FIBERGLASS DOOR	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS	
NO.	DATE	BY	REVISIONS
1	1/19/22	LFS	UPDATE TO 2018 IBC/IRC
DATE: 5/14/18			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4848			
SHEET 4 OF 6			

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FRAME ANCHORING
Masonry Construction

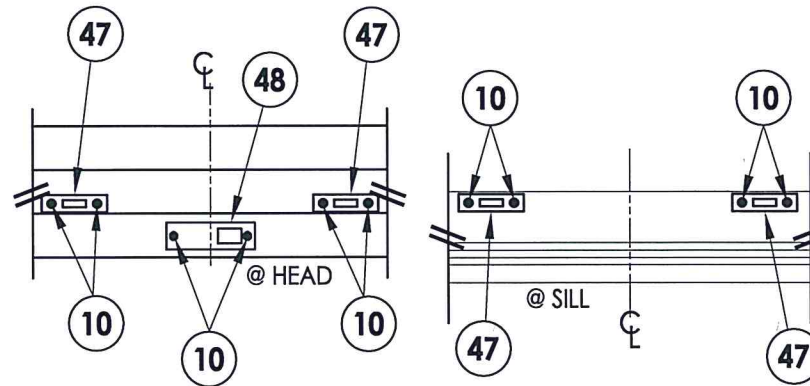
FRAME ANCHORING
Wood Stud

HINGE JAMB ASTRAGAL STRIKE

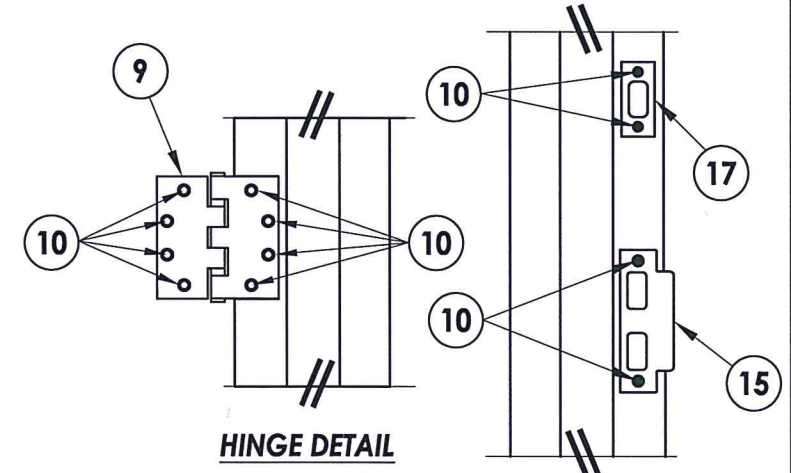
CONCRETE ANCHOR NOTES:

- Concrete screw locations at the corners may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	SILL	1/4"	TAPCON® (ITW BUILDEX) ULTRACON+® (DeWALT)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	HEAD/JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR® (ITW REDHEAD)	2-1/4"	1-1/2"



SURFACE/FLUSH BOLT STRIKE PLATE DETAILS



HINGE DETAIL

STRIKE PLATE DETAIL



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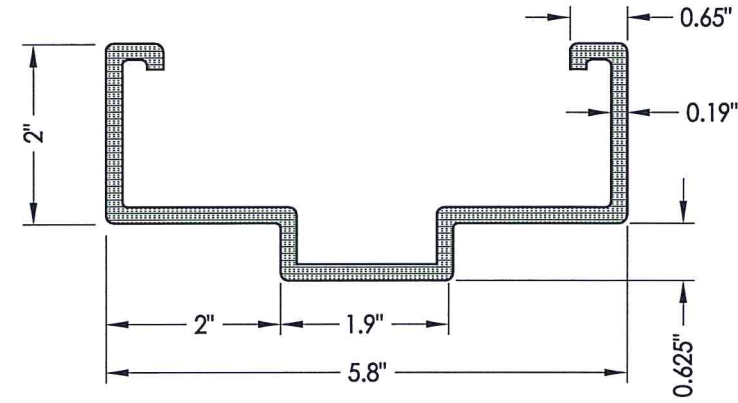
PRODUCT:	FIBERGLASS DOOR	
PART OR ASSEMBLY:	FRAME ANCHORING & HARDWARE DETAILS	
NO.	DATE	BY
1	1/19/22	LFS
UPDATE TO 2018 IBC/IRC		
REVISIONS		
DATE:	5/14/18	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
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SHEET	5	OF 6

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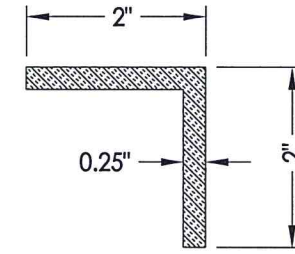
BILL OF MATERIALS

ITEM #	DESCRIPTION	MATERIAL
C	1/4" MAX. SHIM SPACE	-
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK (GROUT FILLED) CONFORMING TO ASTM C90	CONCRETE
F	1/4" x 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
G	3/8"Ø DYNABOLT SLEEVE ANCHOR	STEEL
H	3/8"Ø x 5" LAG SCREW	STEEL
1	DOOR FRAME (FRP)	FIBERGLASS
2	FRAME CORNER REINFORCEMENT (FRP)	FIBERGLASS
3	REMOVABLE MULLION (FRP)	FIBERGLASS
5	ASTRAGAL	FIBERGLASS
6	WEATHERSTRIP	NEOPRENE
7	DOOR SWEEP	VINYL
8	WEATHERSTRIP (NGP 5050 GASKET)	NEOPRENE
9	4-1/2" X 4-1/2" BUTT HINGE	SS
10	#12 X 1" PFH SMS	SS
15	MORTISE LATCH & DEADBOLT STRIKE PLATE	SS
16	LATCH STRIKE PLATE	SS
17	DEADBOLT STRIKE PLATE	STEEL
30	OUTSWING THRESHOLD	ALUM
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
43	8-32 X 1" MACHINE SCREW w/ 1-3/4" SEX BOLT	STEEL
44	SURFACE BOLT - ROCKWOOD 580-8	SS
47	SURFACE BOLT STRIKE PLATE	SS
48	FLUSH BOLT STRIKE PLATE	SS

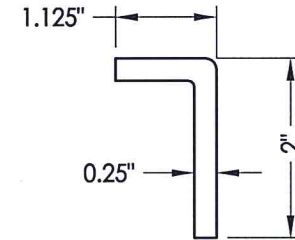
FIBER REINFORCED PLASTIC (FRP)



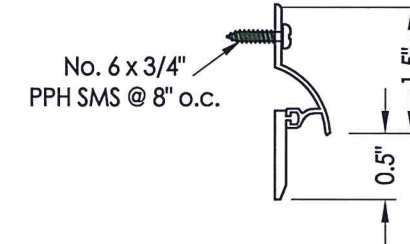
1 DOOR FRAME (FRP)



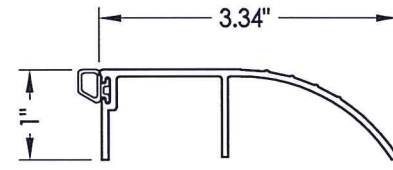
2 FRAME CORNER REINFORCEMENT
5" LONG



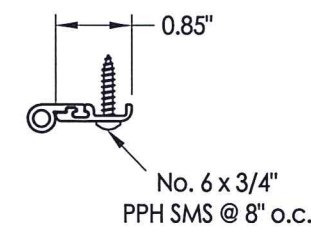
3 ASTRAGAL (FRP)



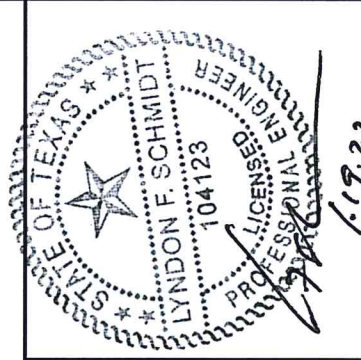
7 DOOR SWEEP
NGP 101 VA



30 OUTSWING THRESHOLD
Pemko 2051-T



6 WEATHERSTRIP
NGP 137N



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LFS	BY	
REVISIONS		
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DWG. BY:	JK	
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SHEET	6	OF 6