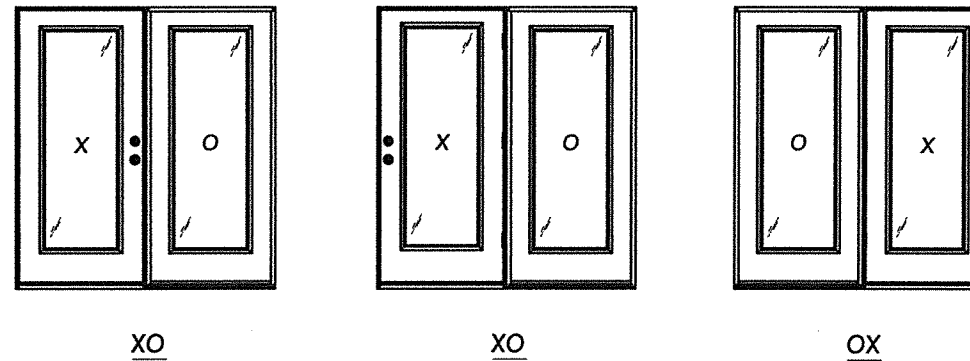


# THERMA-TRU® DOORS

Fiber-Classic® & Smooth-Star®

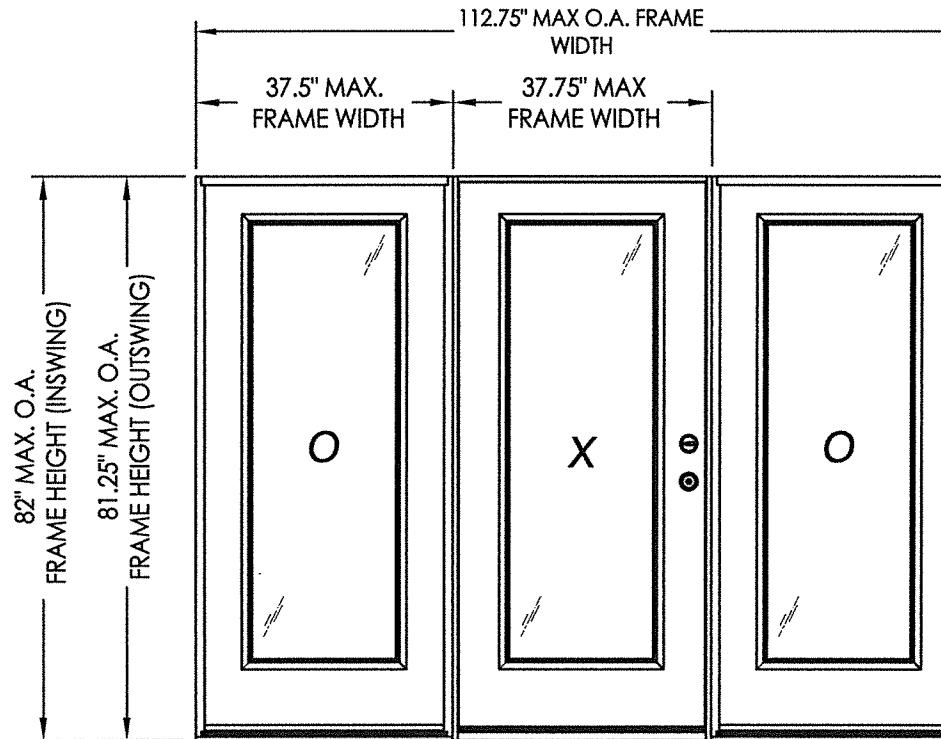
## GLAZED FIBERGLASS SINGLE DOOR w/ SIDELITE(S) in a COMPOSITE FRAME IN SWING/OUT SWING "IMPACT"



### EVALUATED FOR USE IN THE STATE OF TEXAS

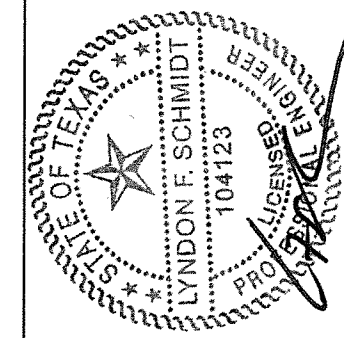
The Fiberglass Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

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.
5. Fiber-Classic and Smooth-Star Door & Sidelite panels require the use of "J" part numbers. These door panels must be stained or painted within six months of installation.



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+50.0	-55.0	+50.0	-50.0

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Sidelite Panel Details
4	Elevations
5	Horizontal & Vertical Cross Sections (2X Buck)
6	Vertical Cross Sections (Thresholds)
7	Frame Anchoring
8	Hardware Details
9	Life Frame & Glazing Details
10	Bill of Materials & Components



Documents Prepared By: Lyndon F. Schmidt, P.E.  
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**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL, 33595  
Phone No.: 813.659.9197

TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR

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

NO.	DATE	BY	REVISIONS

DATE: 5/24/21

SCALE: N.T.S.

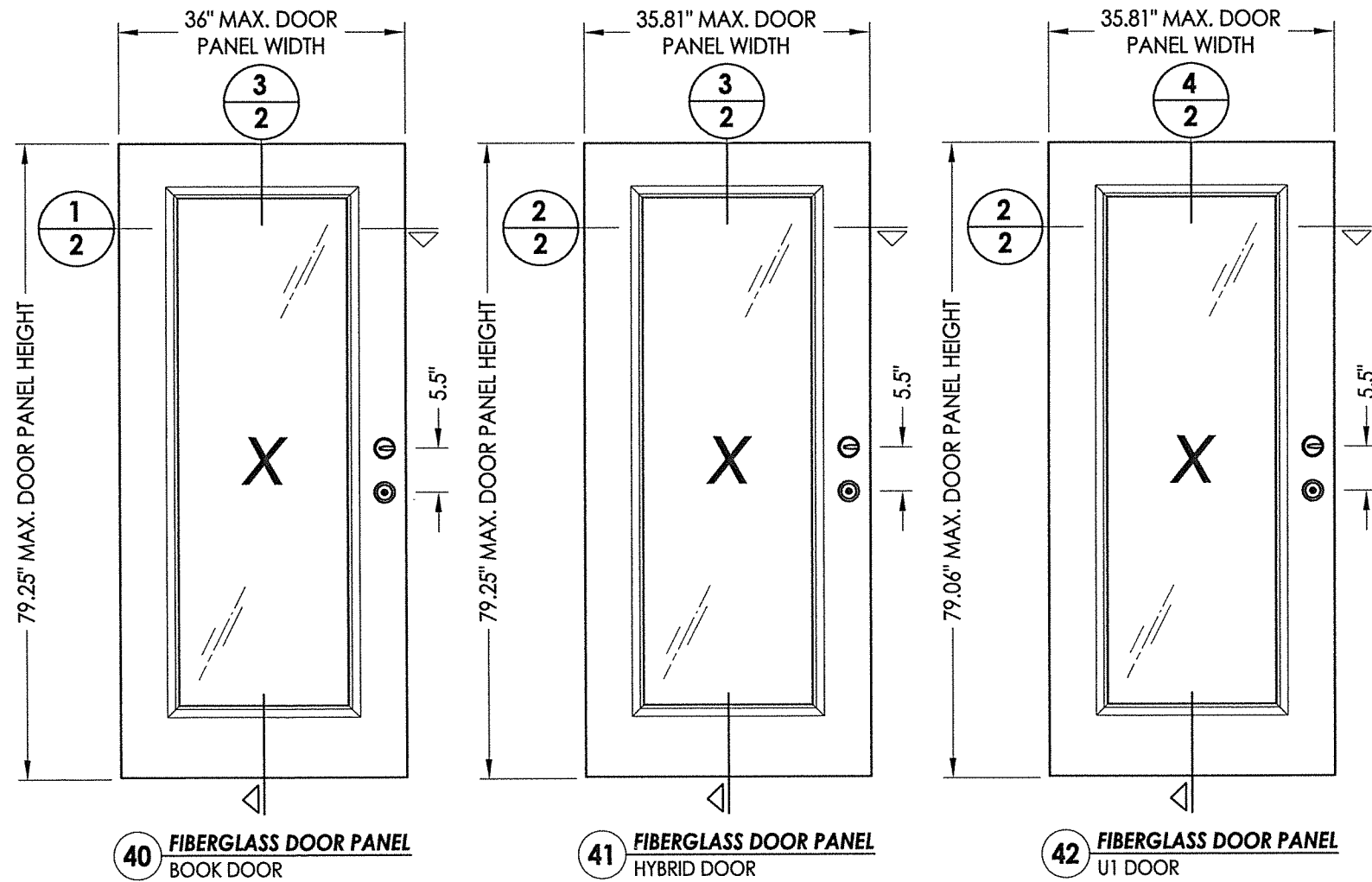
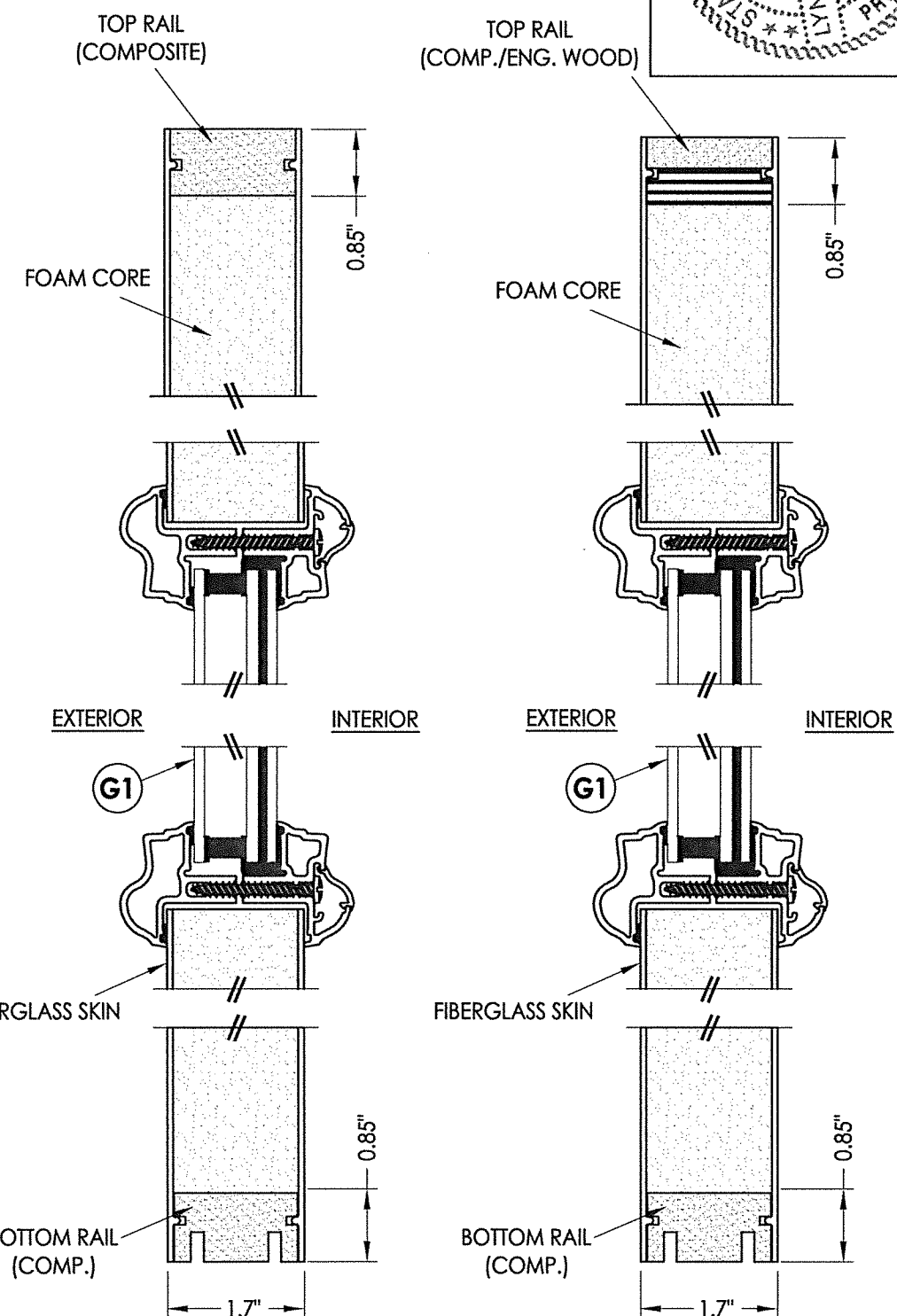
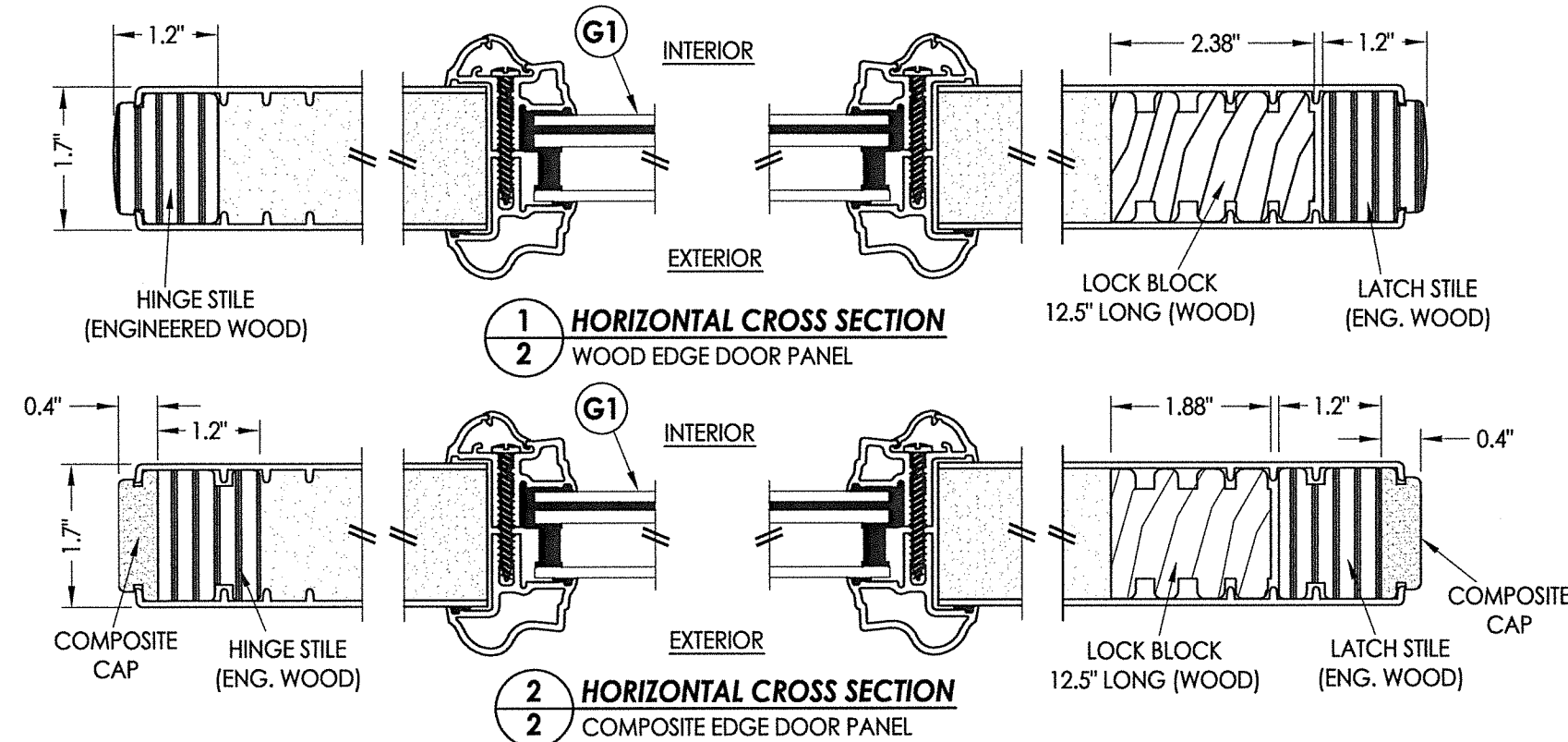
DWG. BY: RW

CHK. BY: LFS

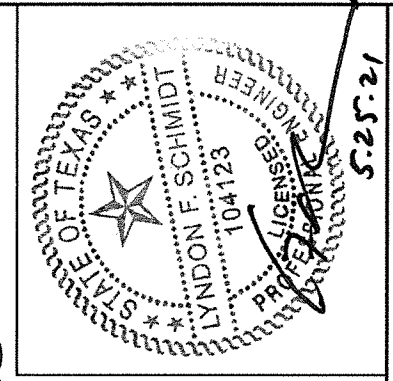
DRAWING NO.: TX-5207

SHEET 1 of 10

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - ID XXXX - 68 GLZ FG Imp Comp Jambos (TX 5206-5208)\C - Drawings\TX-5206-5208.dwg



NOTE: BOOK, HYBRID & U1 DOORS MAY EACH BE FABRICATED AS WOOD OR COMPOSITE EDGE DOORS.



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CERTIFICATE OF REGISTRATION # F-11852

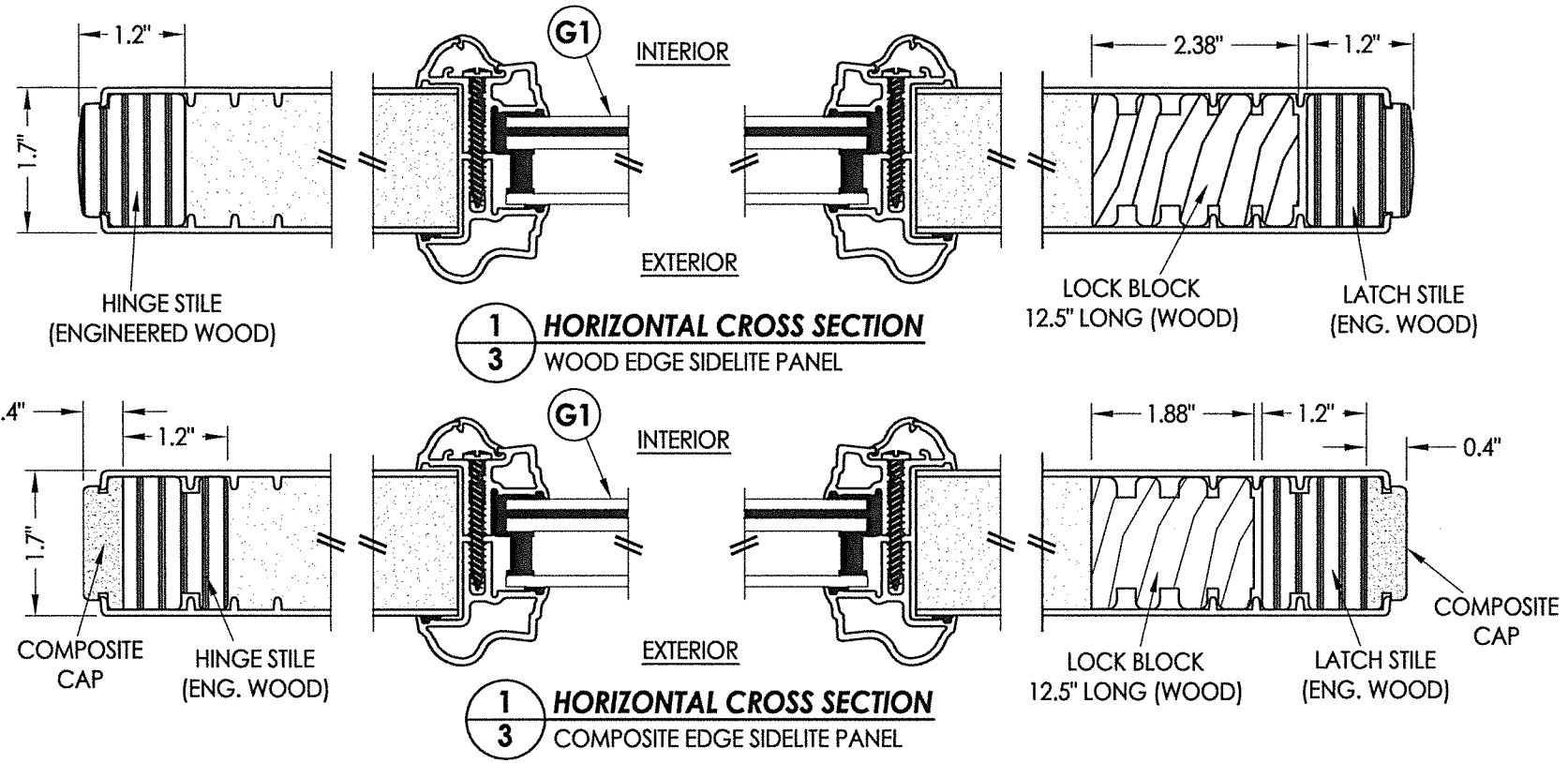
PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: DOOR PANEL DETAILS

NO.	DATE	BY

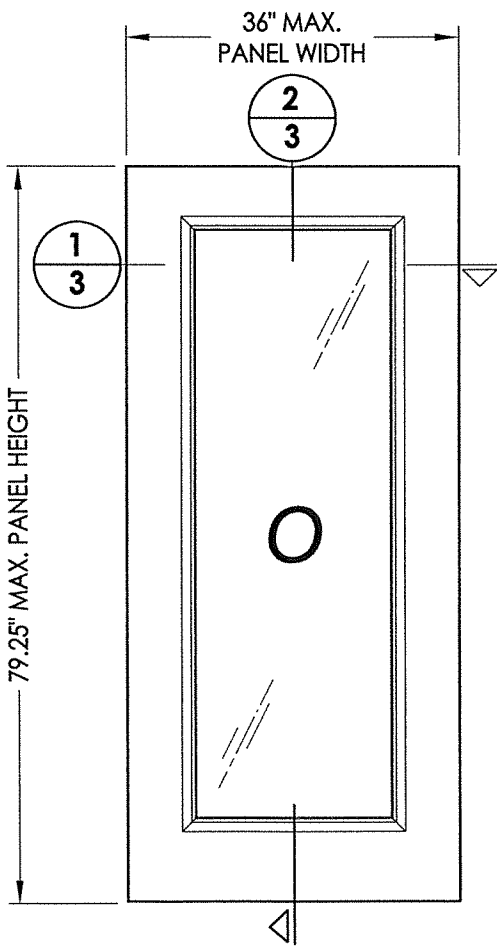
DATE: 5/24/21  
SCALE: N.T.S.  
DWG. BY: RW  
CHK. BY: LFS  
DRAWING NO.: TX-5207  
SHEET 2 of 10

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - ID XXXX - 618 GLZ FG Imp Comp Jambs (TX 5206-5208)\C - Drawings\TX-5206-5208.dwg



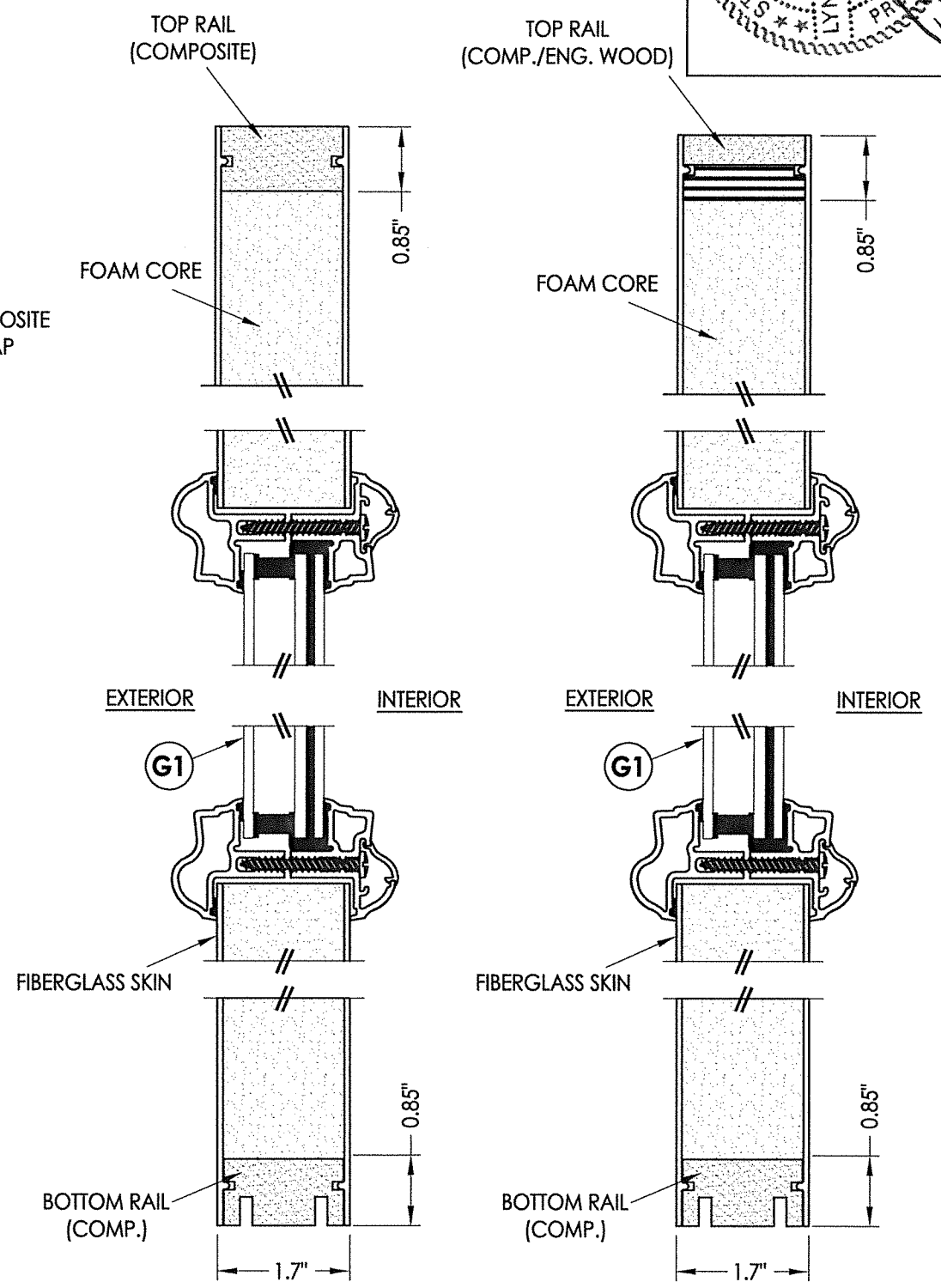
1 HORIZONTAL CROSS SECTION  
3 WOOD EDGE SIDELITE PANEL

1 HORIZONTAL CROSS SECTION  
3 COMPOSITE EDGE SIDELITE PANEL



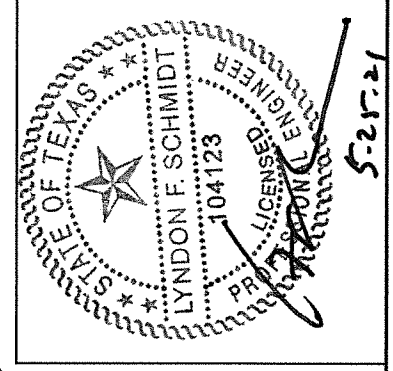
50 FIBERGLASS SIDELITE PANEL  
WOOD OR COMPOSITE EDGE

FIBERGLASS SKIN: 0.073\"/>



1 VERTICAL CROSS SECTION  
3 WOOD EDGE SIDELITE PANEL

2 VERTICAL CROSS SECTION  
3 COMPOSITE EDGE SIDELITE PANEL



Documents Prepared By: Lyndon F. Schmidt, P.E.  
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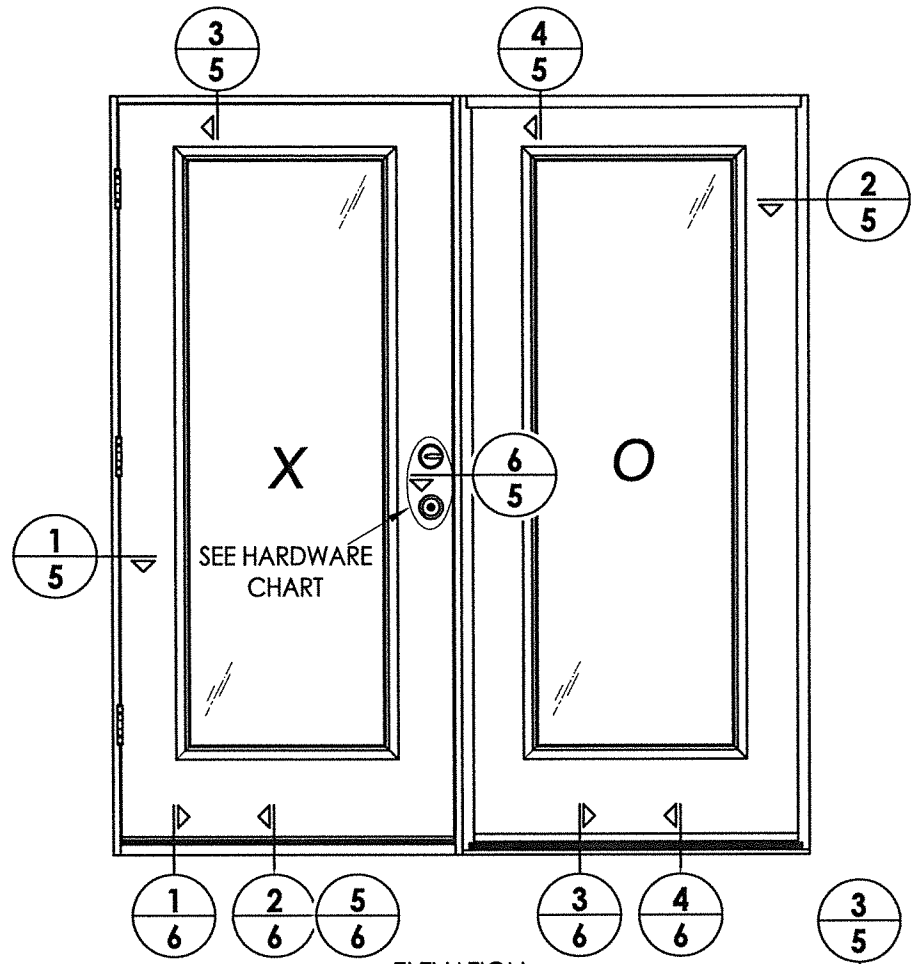
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	SIDELITE PANEL DETAILS

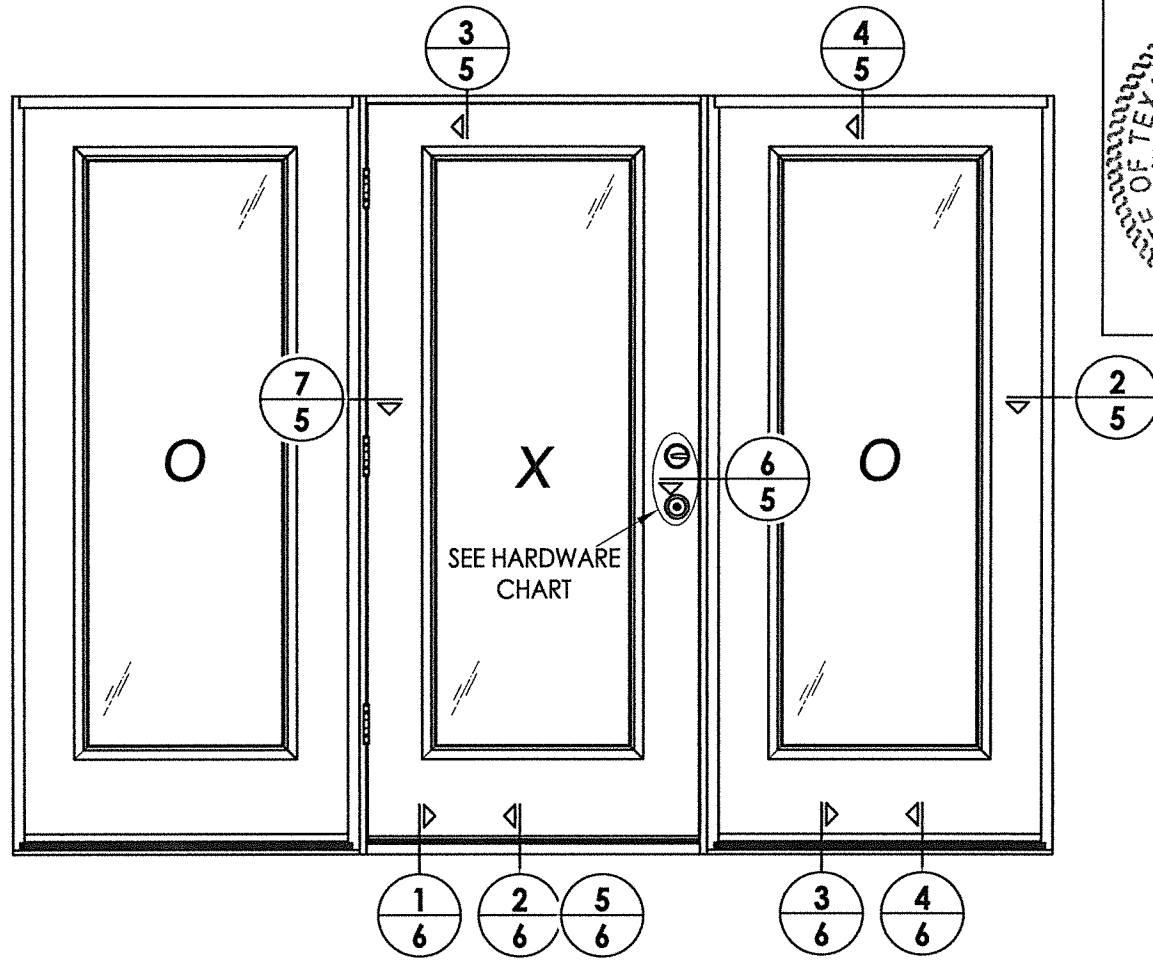
NO.	DATE	BY	REVISIONS

DATE:	5/24/21
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	TX-5207
SHEET	3 of 10

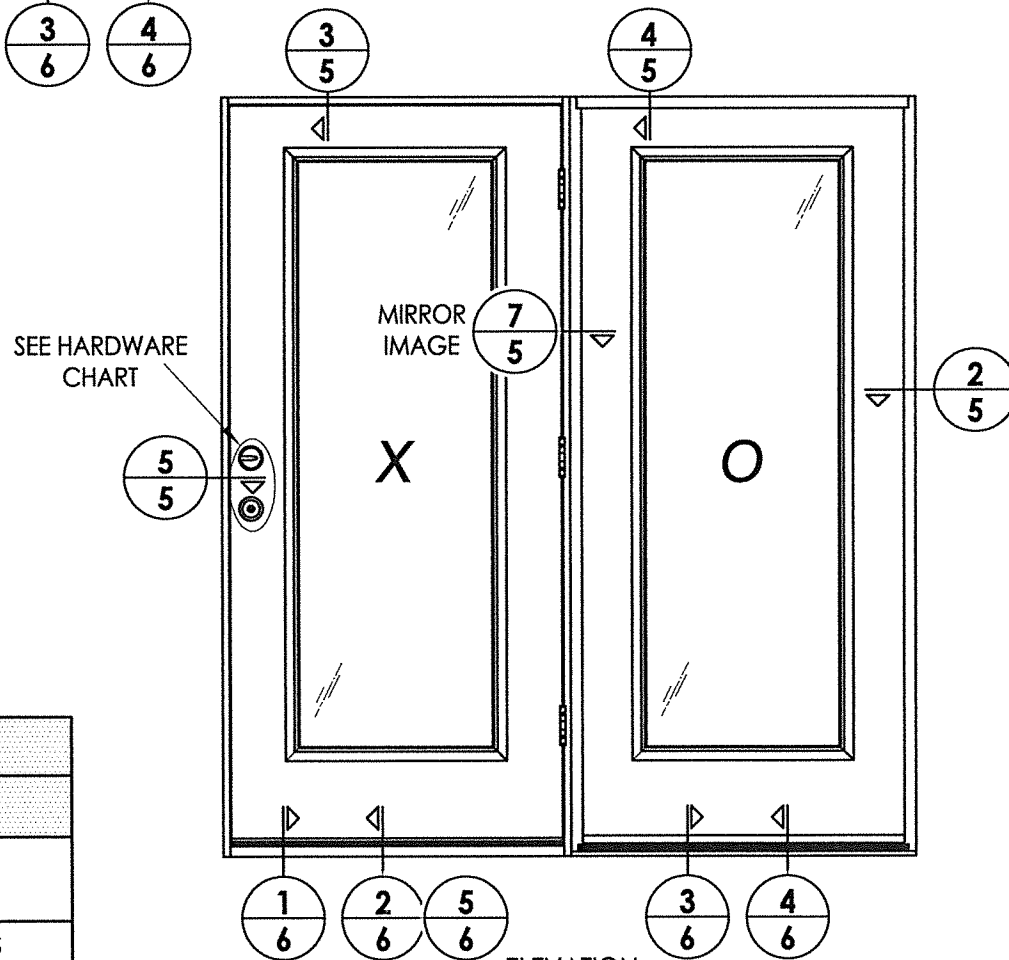
Z:\Clients\Therma Tru Permanent\B - Texas Dept of Ins\TDI - ID XXXX - 6'8 GLZ FG Imp Comp Jamb (TX 5206-5208)\C - Drawings\TX-5206-5208.dwg



ELEVATION  
XO

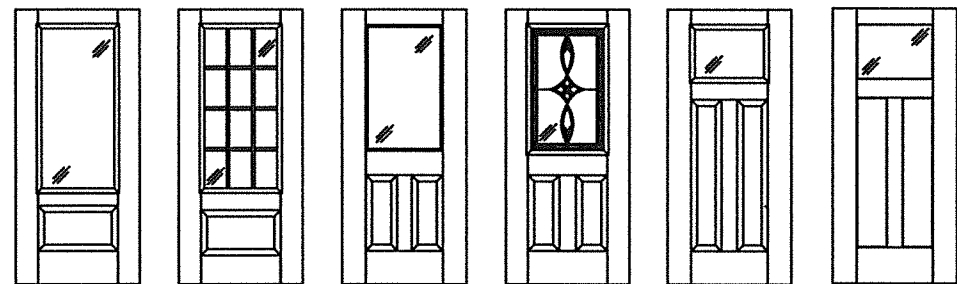
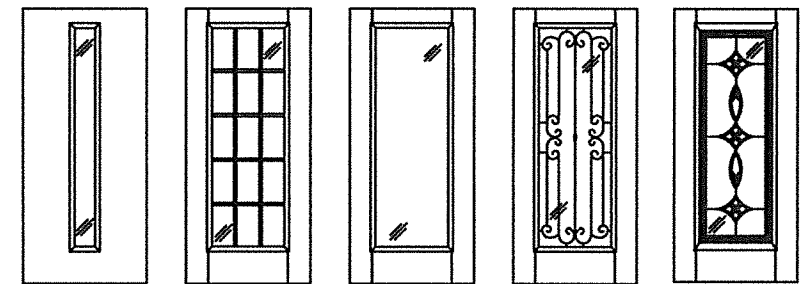


ELEVATION  
OXO



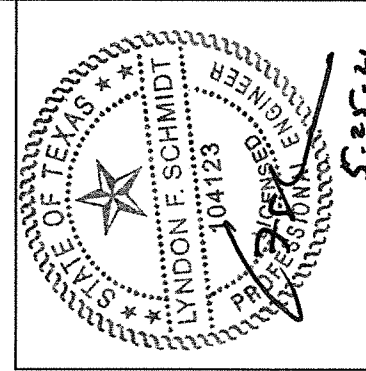
ELEVATION  
XO (CENTER HINGE)

HARDWARE TABLE	
MANUFACTURER	MODEL
SCHLAGE	KNOB: F51
	DEADBOLT: B60
KWIKSET	KNOB: SIGNATURE SERIES
	DEADBOLT: SIGNATURE SERIES (980)



**Fiber-Classic/Smooth-Star Door Panel Options**

Products approved include all embossed and recessed panel doors.  
Similar glazed panel configurations are allowed.  
Panels shown are for illustration and are representative only.



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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
ELEVATIONS

NO.	DATE	BY	REVISIONS

DATE: 5/24/21

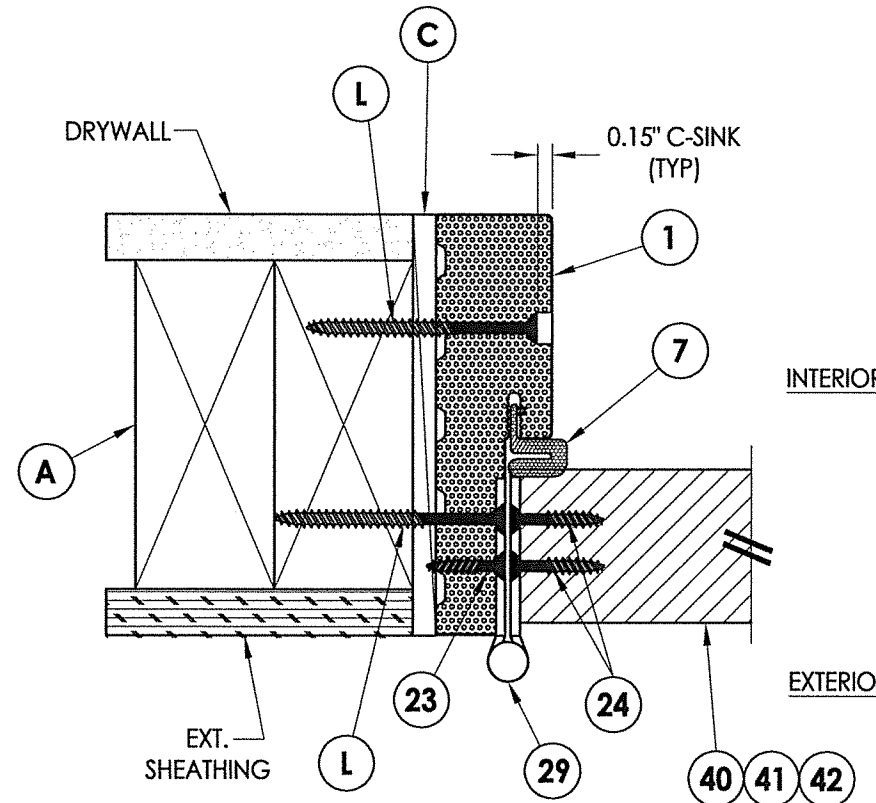
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DWG. BY: RW

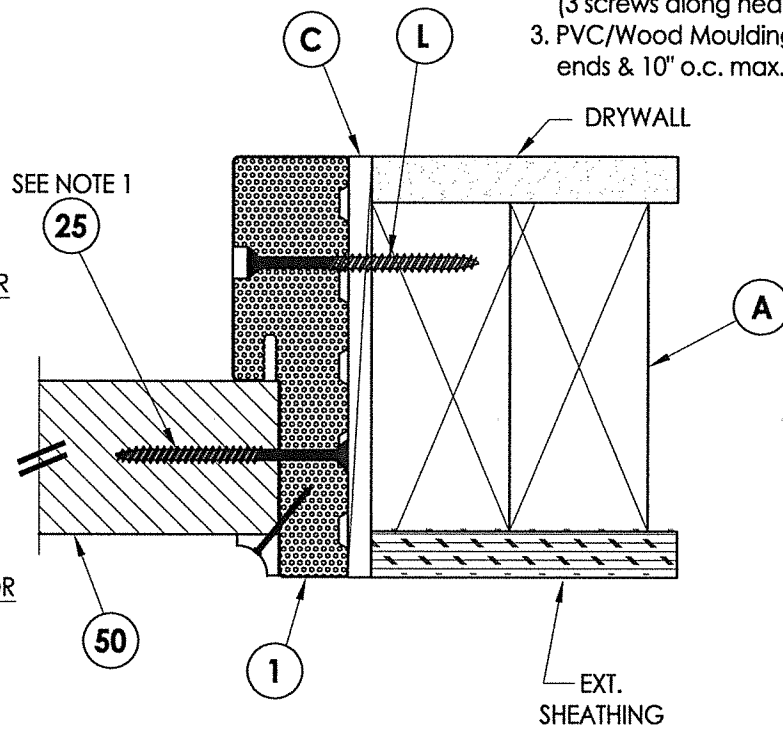
CHK. BY: LFS

DRAWING NO.: TX-5207

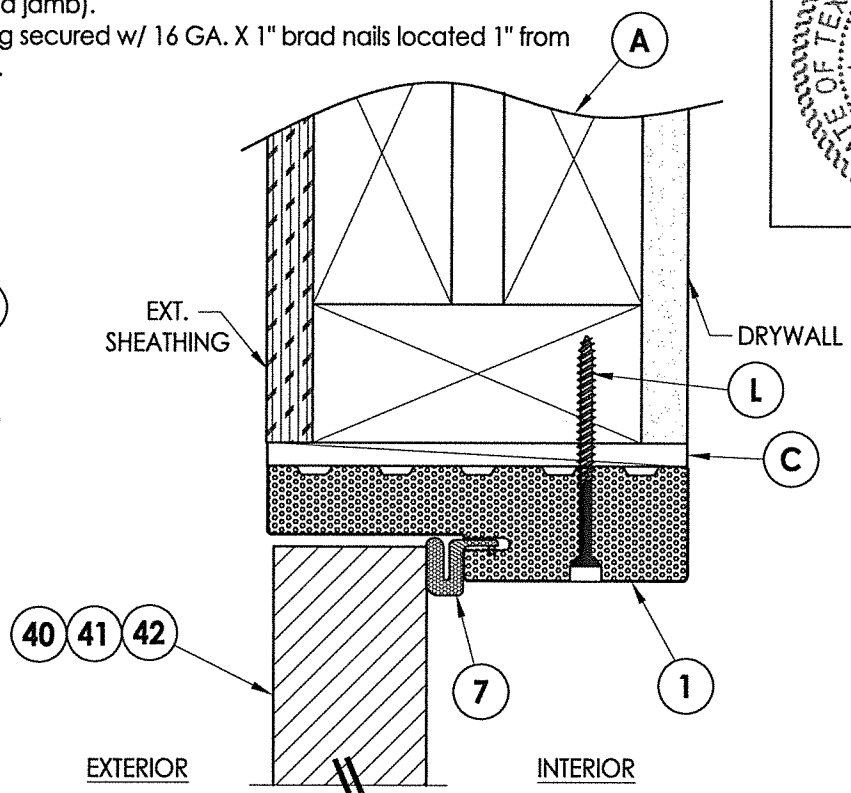
SHEET 4 OF 10



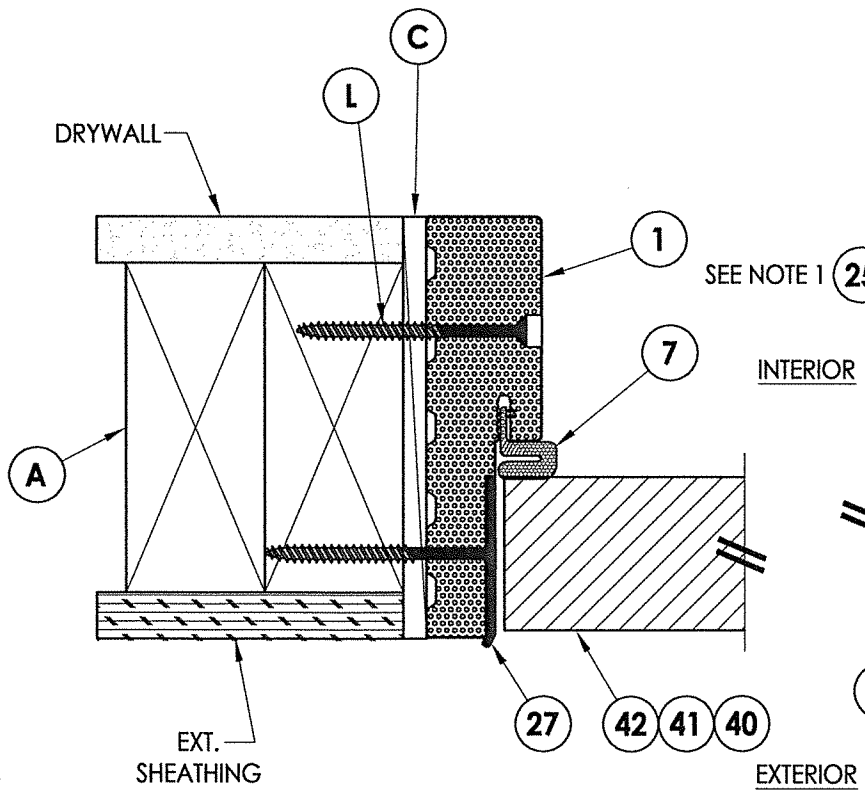
**1** **HORIZONTAL CROSS SECTION**  
**5** Shown w/ 2X Buck  
 Outswing shown (Inswing similar)



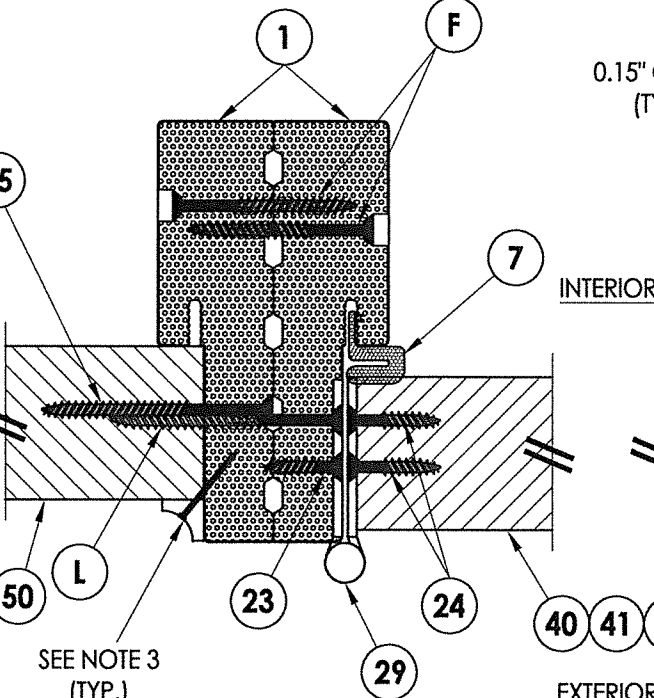
**2** **HORIZONTAL CROSS SECTION**  
**5** Shown w/ 2X Buck  
 Outswing shown (Inswing similar)



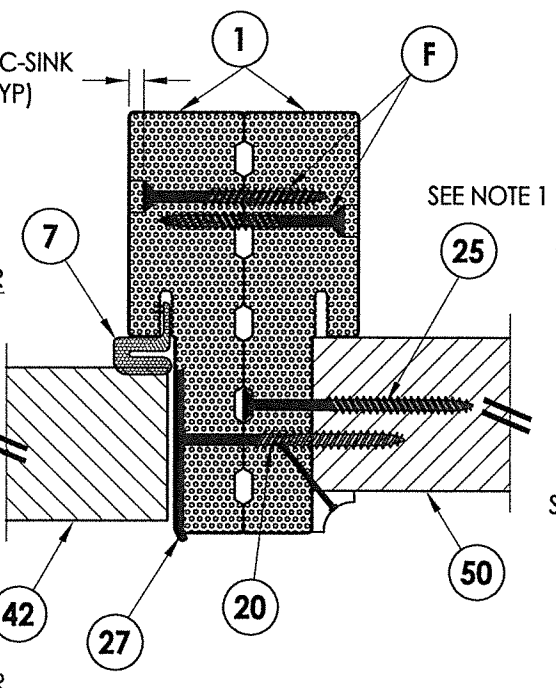
**3** **VERTICAL CROSS SECTION**  
**5** Shown w/ 2X Buck  
 Outswing shown (Inswing similar)



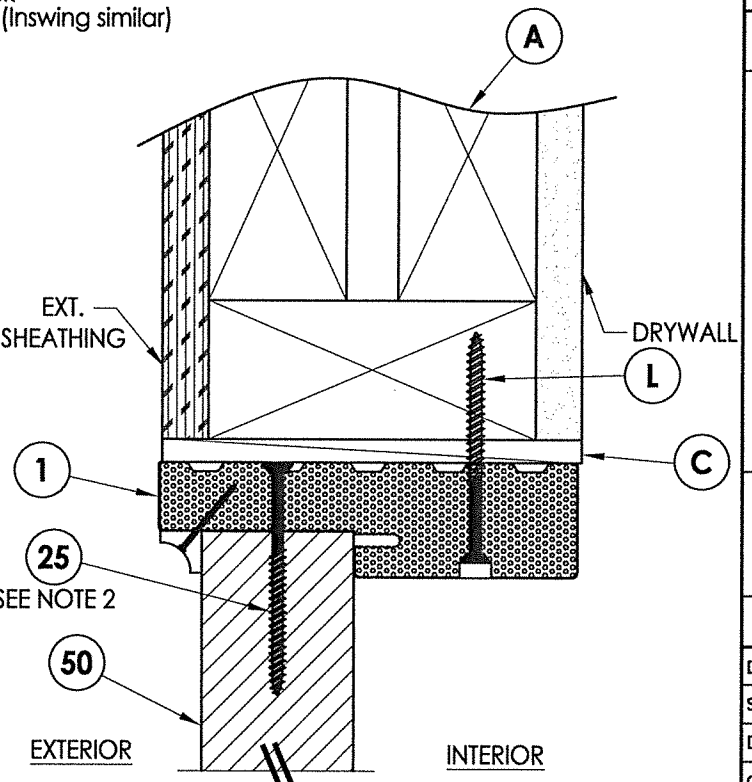
**5** **HORIZONTAL CROSS SECTION**  
**5** Shown w/ 2X Buck  
 Outswing shown (Inswing similar)



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

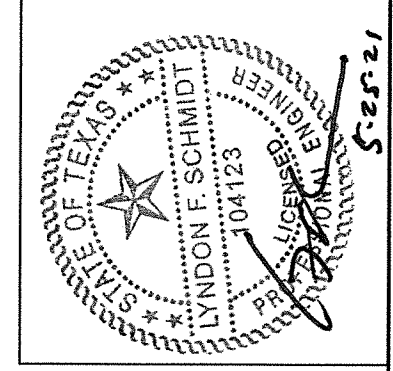


**6** **HORIZONTAL CROSS SECTION**  
**5** Outswing shown (Inswing similar)



**4** **VERTICAL CROSS SECTION**  
**5** Shown w/ 2X Buck  
 Outswing shown (Inswing similar)

- 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 3" from each end and @ centerline (3 screws along head jamb).
  3. PVC/Wood Moulding secured w/ 16 GA. X 1" brad nails located 1" from ends & 10" o.c. max.



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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU  
 FIBERGLASS DOOR

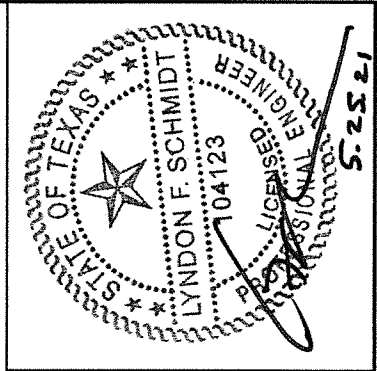
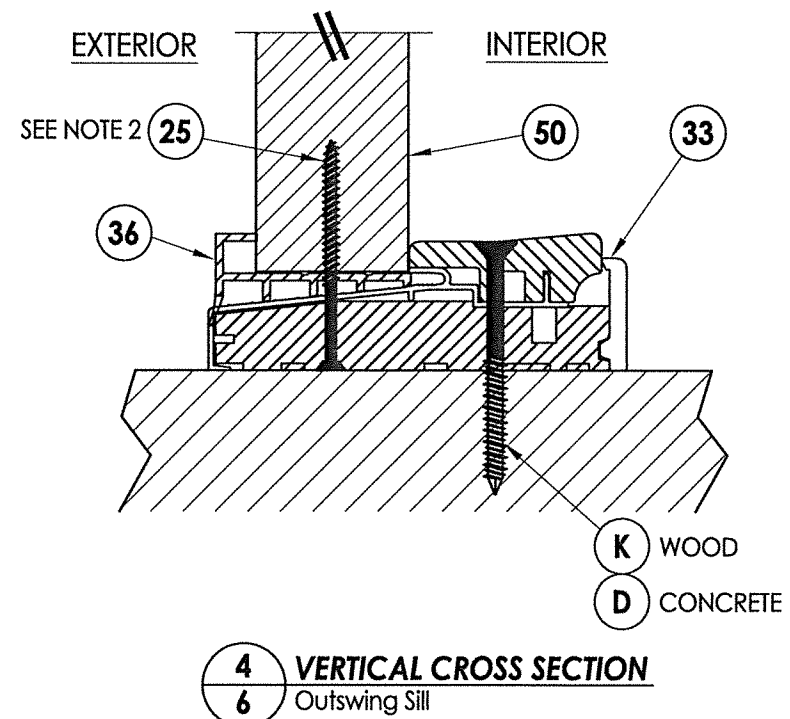
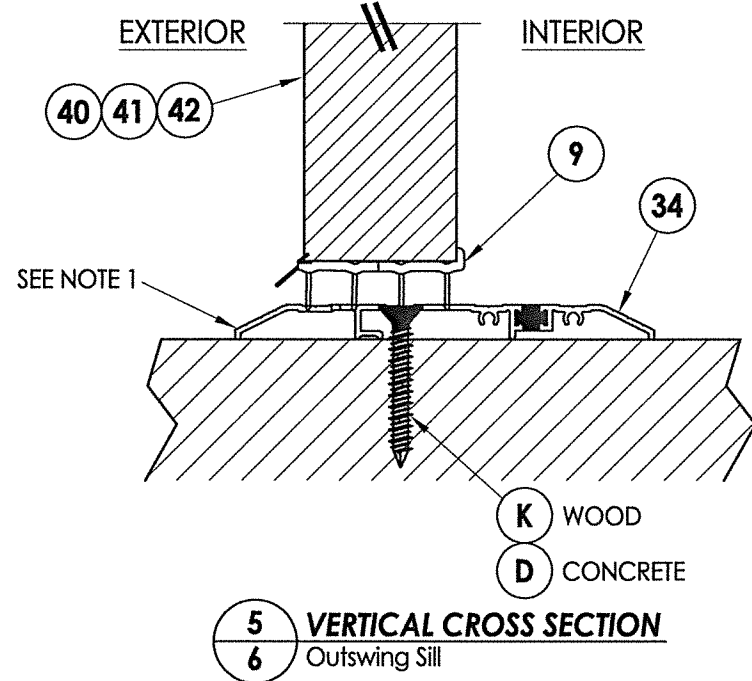
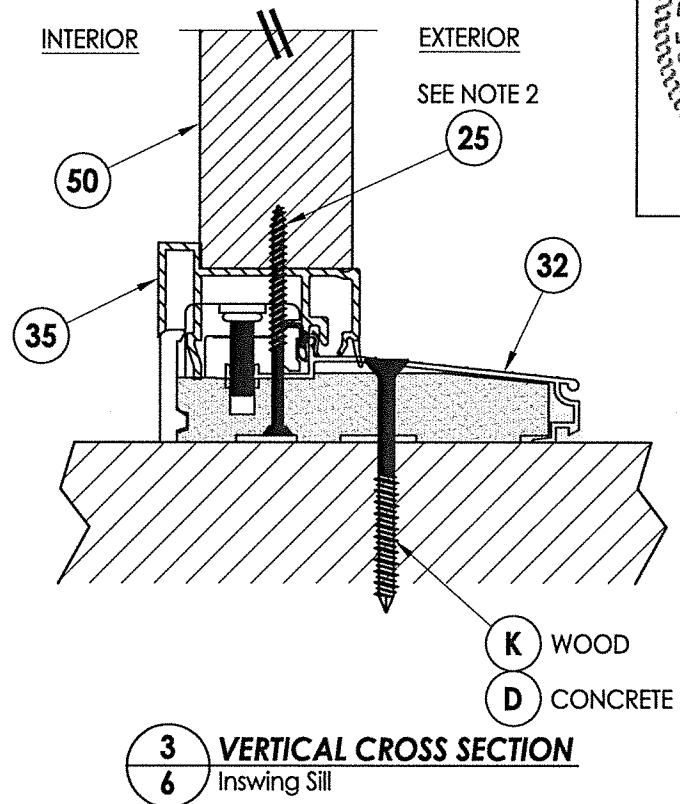
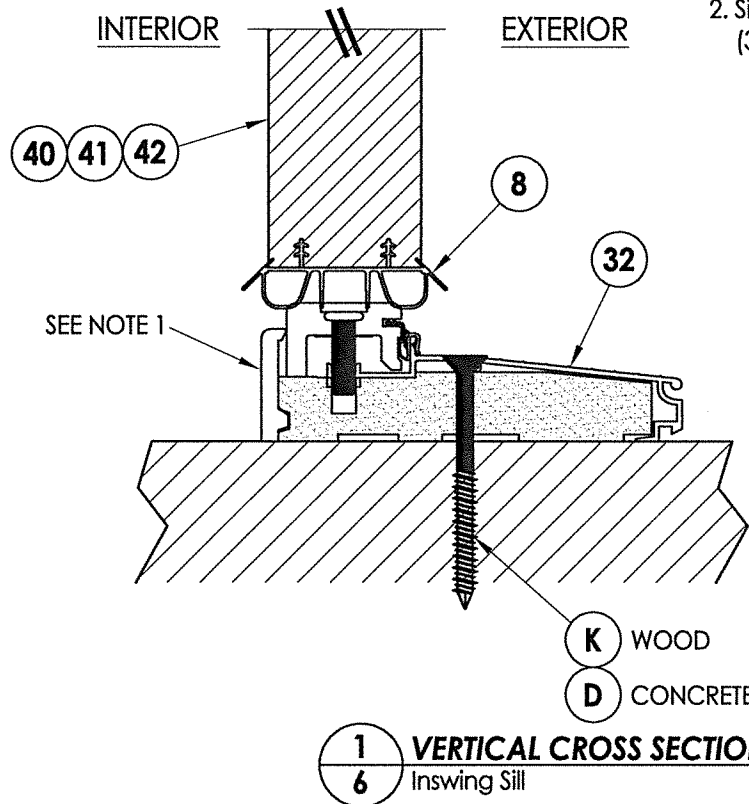
PART OR ASSEMBLY:  
 HORIZONTAL & VERTICAL  
 CROSS SECTIONS (2X BUCK)

NO.	DATE	BY

DATE: 5/24/21  
 SCALE: N.T.S.  
 DWG. BY: RW  
 CHK. BY: LFS  
 DRAWING NO.: TX-5207  
 SHEET 5 of 10



Notes:  
1. Sill Item #32 is attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.  
Sill Item #33 is attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.  
Sill Item #34 is attached to jambs utilizing (2) #10 X 2" pph SMS at each end.  
2. Sidelite assembly screws located 3" from each end and @ centerline (3 screws along sill).



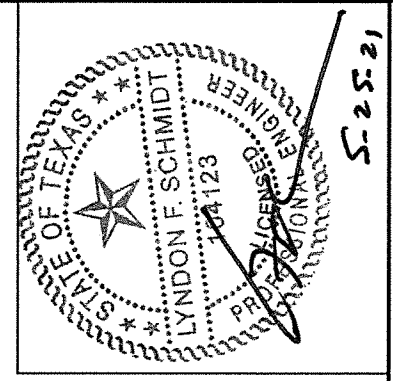
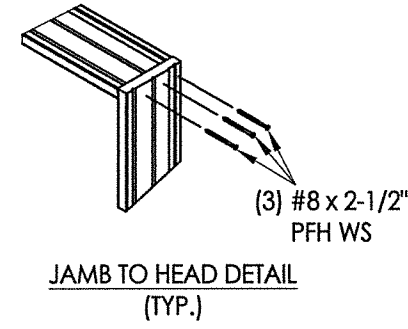
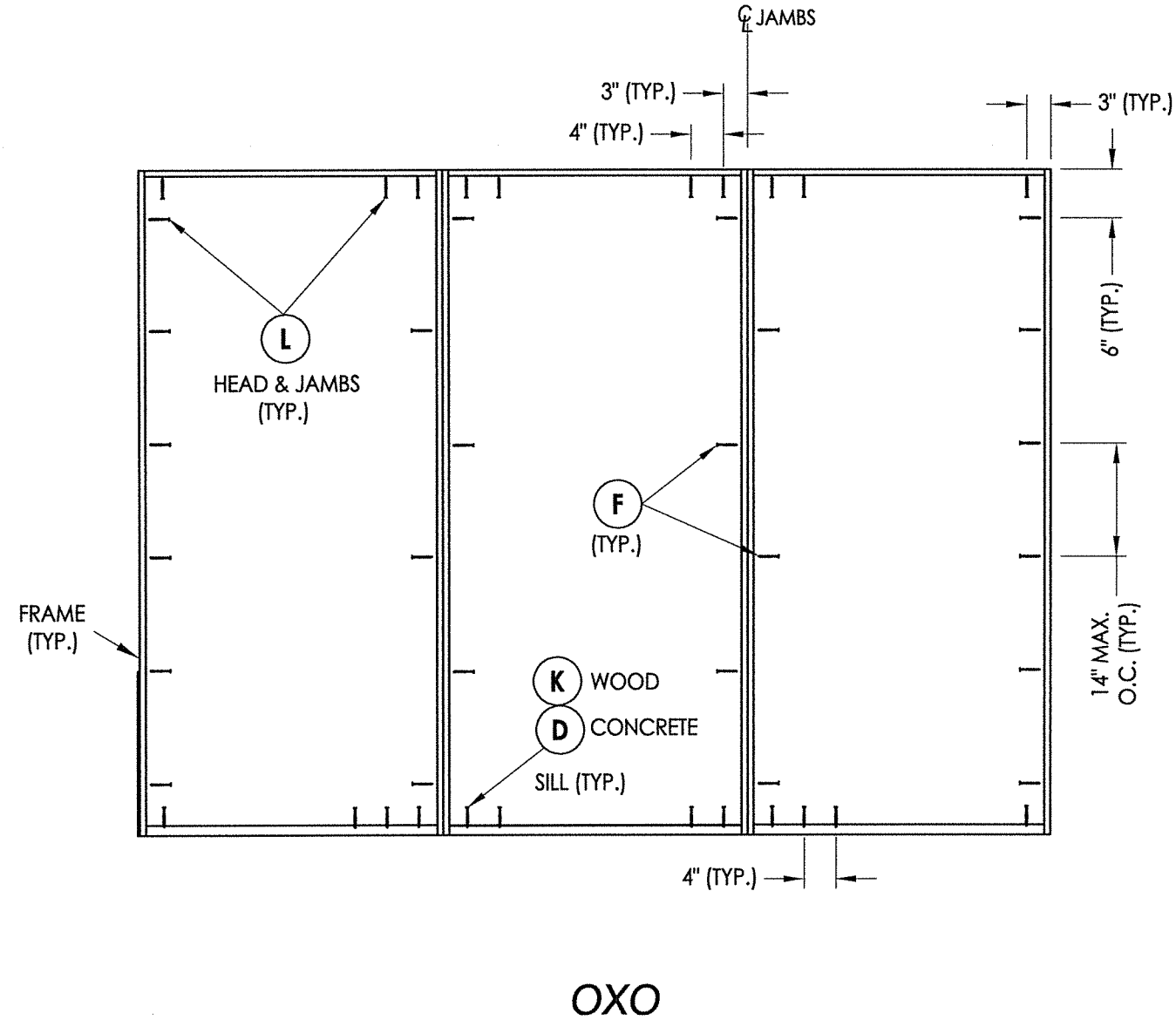
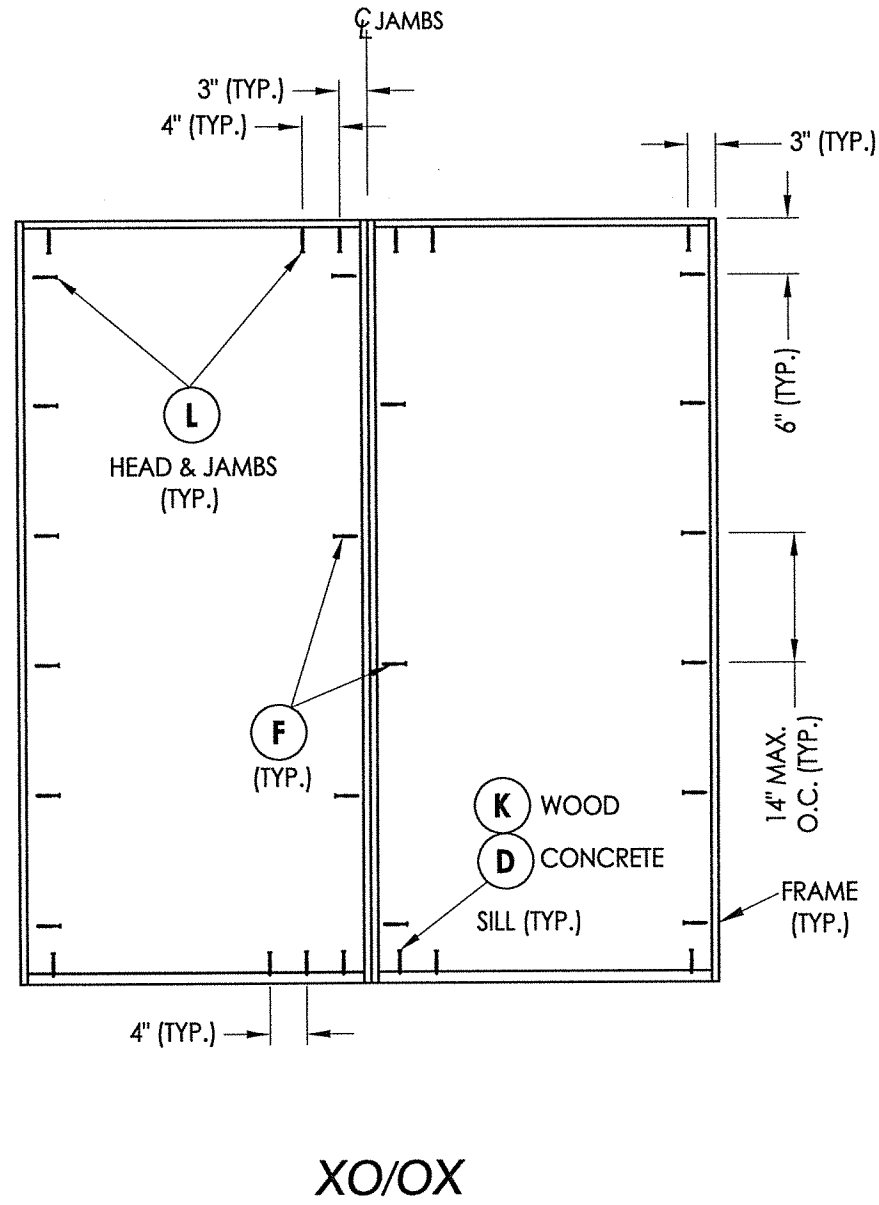
Documents Prepared By: Lyndon F. Schmidt, P.E.  
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**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL 33595  
Phone No.: 813.659.9197

TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	Therma-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS (THRESHOLDS)	
NO.	DATE	BY
		REVISIONS
DATE: 5/24/21		
SCALE: N.T.S.		
DWG. BY: RW		
CHK. BY: LFS		
DRAWING NO.: TX-5207		
SHEET 6 OF 10		

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - ID XXXX - 6'8 GLZ FG Imp Comp Jamb (TX 5206-5208)\C - Drawings\TX-5206-5208.dwg



Documents Prepared By: Lyndon F. Schmidt, P.E.  
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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	BY	REVISIONS

DATE: 5/24/21

SCALE: N.T.S.

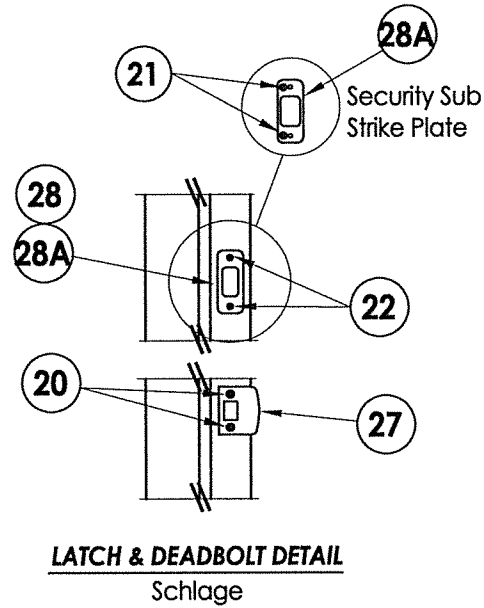
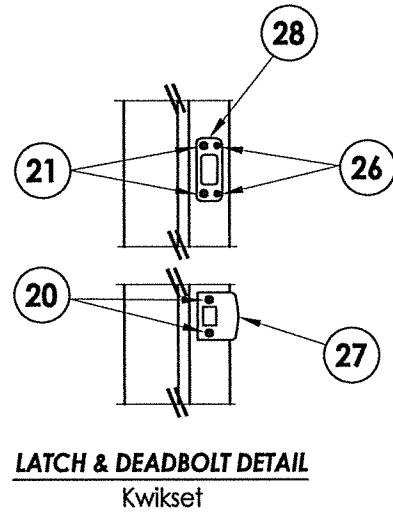
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CHK. BY: LFS

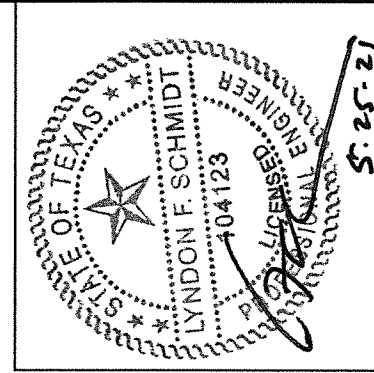
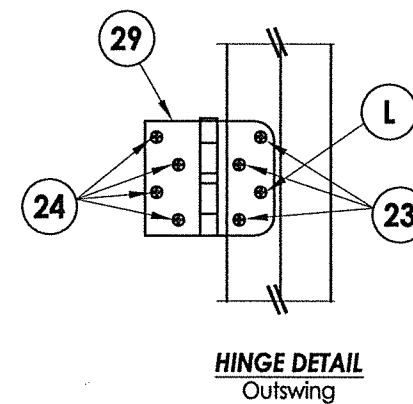
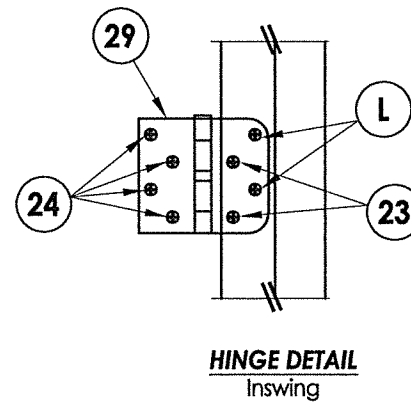
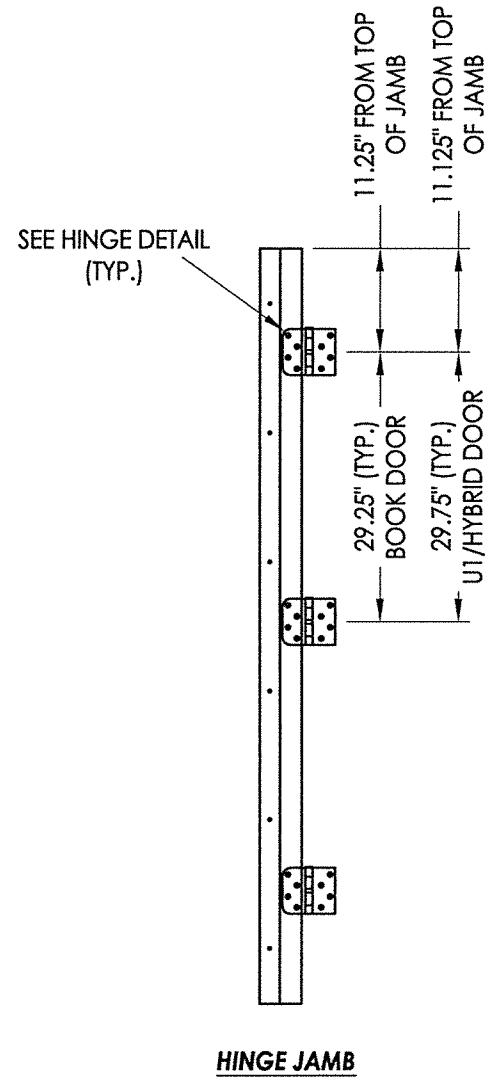
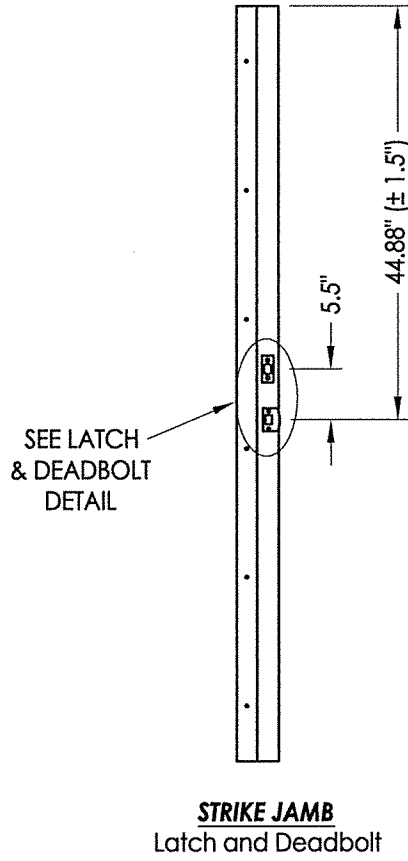
DRAWING NO.: TX-5207

SHEET 7 OF 10

**FRAME ANCHORING**



**LATCH & DEADBOLT STRIKE DETAILS**



Documents Prepared By: Lyndon F. Schmidt, P.E.  
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CERTIFICATE OF REGISTRATION # F-11852

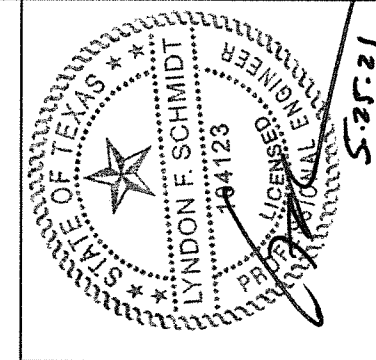
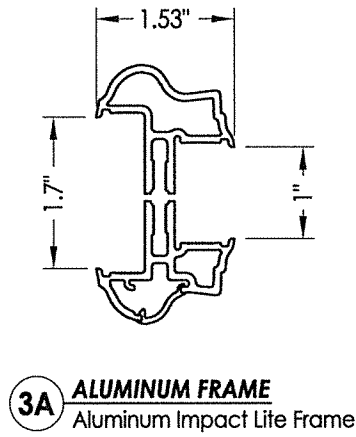
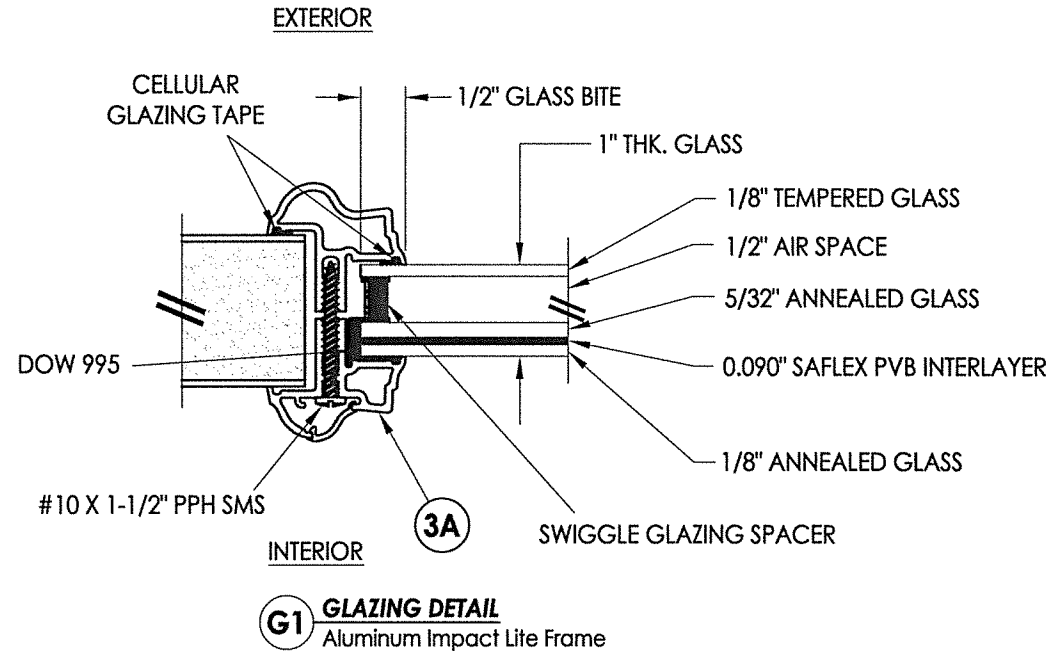
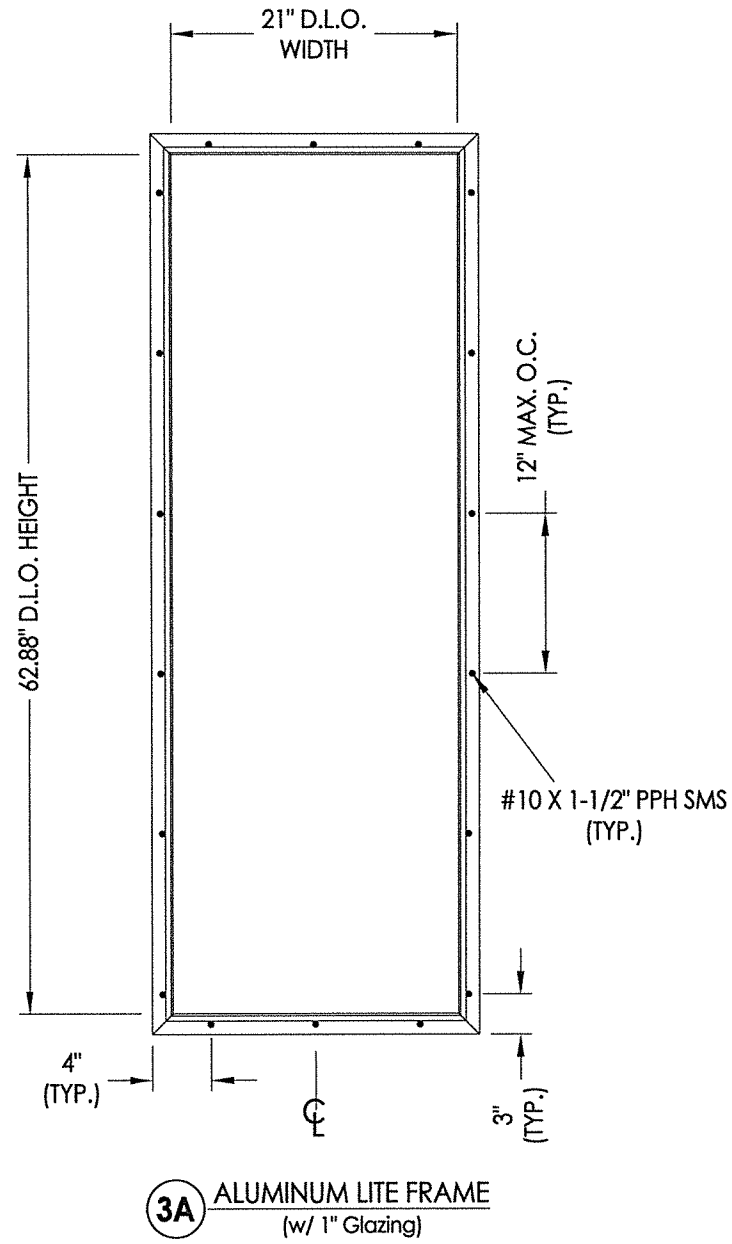
PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: HARDWARE DETAILS

NO.	DATE	BY

DATE: 5/24/21  
SCALE: N.T.S.  
DWG. BY: RW  
CHK. BY: LFS  
DRAWING NO.: TX-5207  
SHEET 8 of 10





Documents Prepared By: Lyndon F. Schmidt, P.E.  
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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: LITE FRAME & GLAZING DETAILS

NO.	DATE	BY

DATE: 5/24/21

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

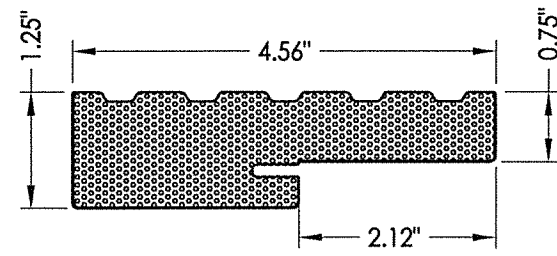
DRAWING NO.: TX-5207

SHEET 9 OF 10

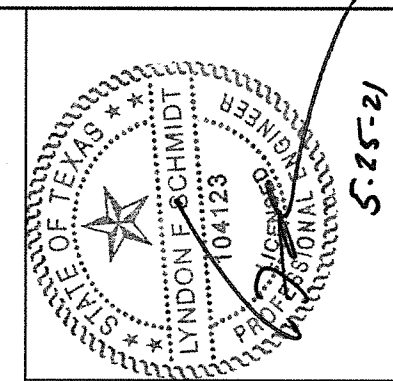
Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - ID XXXX - 6'8 GLZ FG Imp Comp Jamb (TX 5206-5208)\C - Drawings\TX-5206-5208.dwg

**BILL OF MATERIALS**

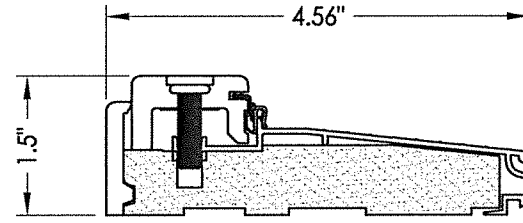
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
F	#10 X 2" PFH WOOD SCREW	STEEL
K	#10 PFH WOOD SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
1	COMPOSITE JAMB	COMP
7	WEATHERSTRIP	FOAM
8	DOOR SWEEP	VINYL
9	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL
20	#8 X 2-1/2" PFH WOOD SCREW	STEEL
21	#12 X 1-1/2" PFH WOOD SCREW	STEEL
22	#8 X 3/4" PFH WOOD SCREW	STEEL
23	#9 X 3/4" PFH WOOD SCREW	STEEL
24	#9 X 1" PFH WOOD SCREW	STEEL
25	#9 X 2-1/2" PFH WOOD SCREW	STEEL
26	#8 X 5/8" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
28A	DEADBOLT SUB-STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
32	INSWING THRESHOLD	ALUM/COMP
33	OUTSWING THRESHOLD	ALUM/COMP
34	PUBLIC ACCESS THRESHOLD	ALUM
35	SIDELITE SPACER (INSWING)	VINYL
36	SIDELITE SPACER (OUTSWING)	VINYL
40	DOOR PANEL (BOOK)	-
41	DOOR PANEL (HYBRID)	-
42	DOOR PANEL (U1)	-
50	SIDELITE PANEL	-



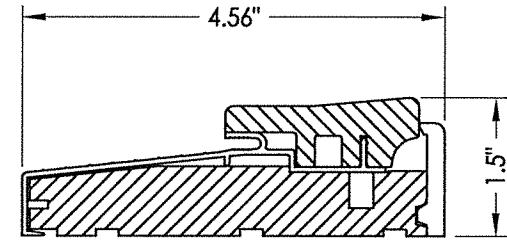
1 COMPOSITE JAMB



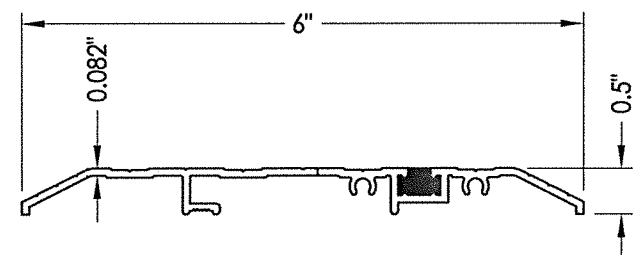
Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123  
5-25-21  
RW BUILDING CONSULTANTS, INC.  
P.O. Box 230 Volrico FL, 33595  
Phone No.: 813.659.9197  
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852



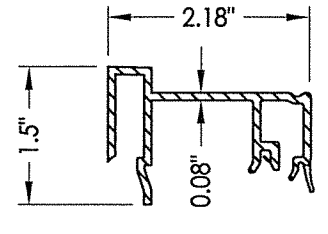
32 INSWING THRESHOLD  
Adjustable Composite Sill



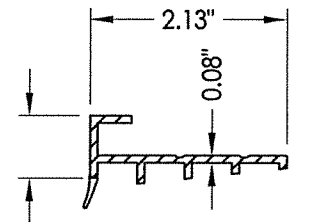
33 OUTSWING THRESHOLD  
Composite Sill



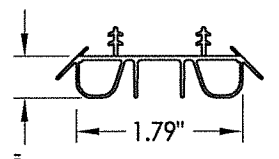
34 PUBLIC ACCESS THRESHOLD



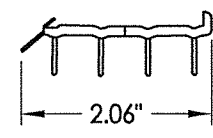
35 SIDELITE SPACER  
Inswing



36 SIDELITE SPACER  
Outswing



8 SWEEP



9 SWEEP

**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"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

**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.

PRODUCT:	Therma-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	BILL OF MATERIALS & COMPONENTS
NO.	DATE
BY	
REVISIONS	

DATE:	5/24/21
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	TX-5207
SHEET	10 OF 10