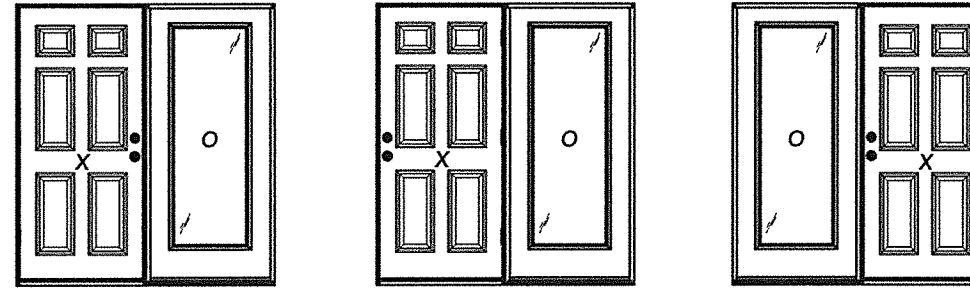


THERMA-TRU® DOORS

Fiber-Classic® & Smooth-Star®

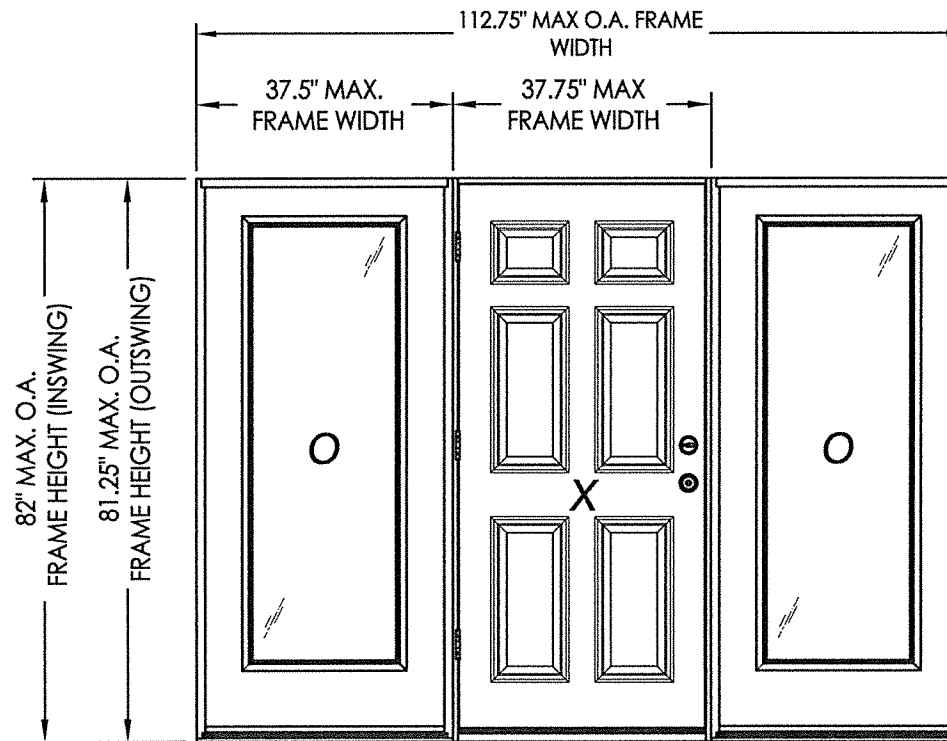
OPAQUE FBERGLASS SINGLE DOOR w/ MOLDED OPEN SIDELITE(S) IN SWING/OUT SWING "IMPACT"



XO

XO

OX



EVALUATED FOR USE IN THE STATE OF TEXAS

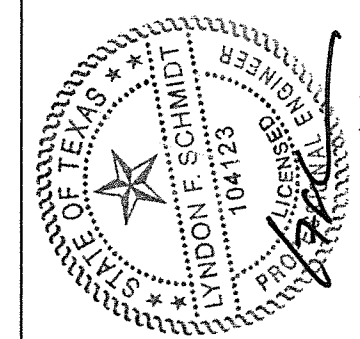
The Fiberglass Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

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.

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	Lite Frame & Glazing Details
10	Bill of Materials & Components

CONFIGURATION	LOCK TYPE	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	LATCH & DEADBOLT	+55.0	-65.0	+60.0	-60.0
	MULTIPOINT LOCK	+50.0	-50.0	+50.0	-50.0



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: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	BY	REVISIONS

DATE: 5/27/21

SCALE: N.T.S.

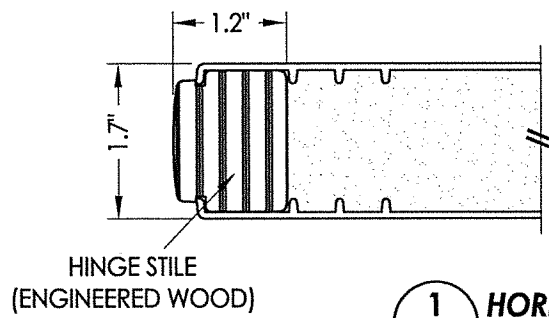
DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: TX-5212

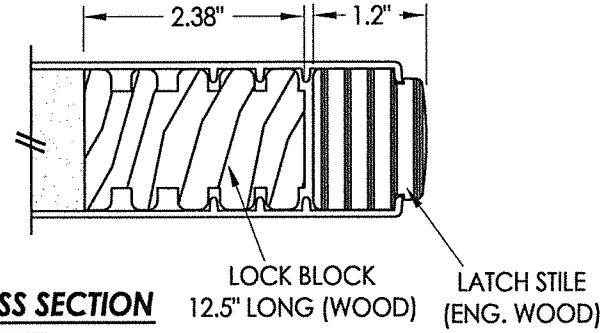
SHEET 1 OF 10

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - ID XXXX - 6'8 OP GLZ FG Imp Molded Open (TX 5209-5213)\C - Drawings\TX-5212-5213.dwg

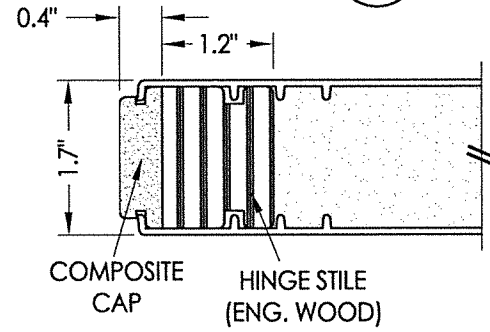


HINGE STILE
(ENGINEERED WOOD)

1 HORIZONTAL CROSS SECTION
2 WOOD EDGE DOOR PANEL

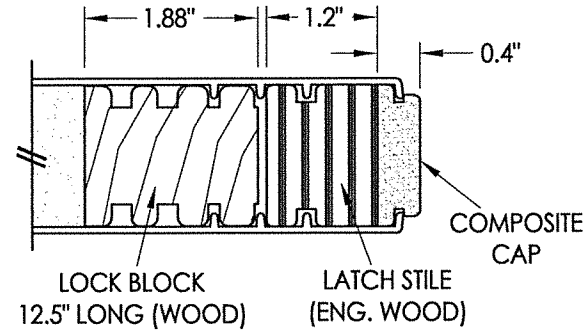


LOCK BLOCK
12.5\"/>



COMPOSITE CAP
HINGE STILE
(ENG. WOOD)

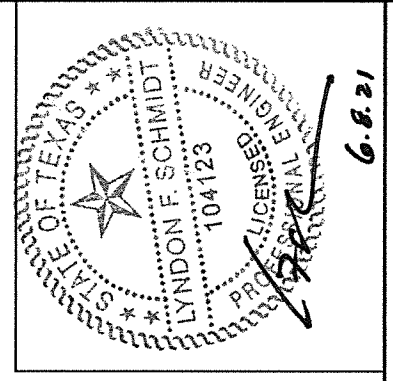
2 HORIZONTAL CROSS SECTION
2 COMPOSITE EDGE DOOR PANEL



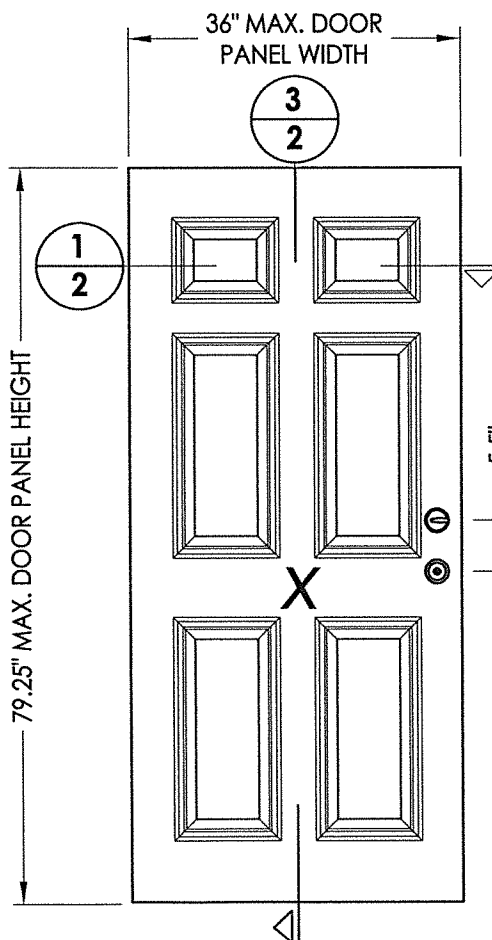
LOCK BLOCK
12.5\"/>

COMPOSITE CAP
LATCH STILE
(ENG. WOOD)

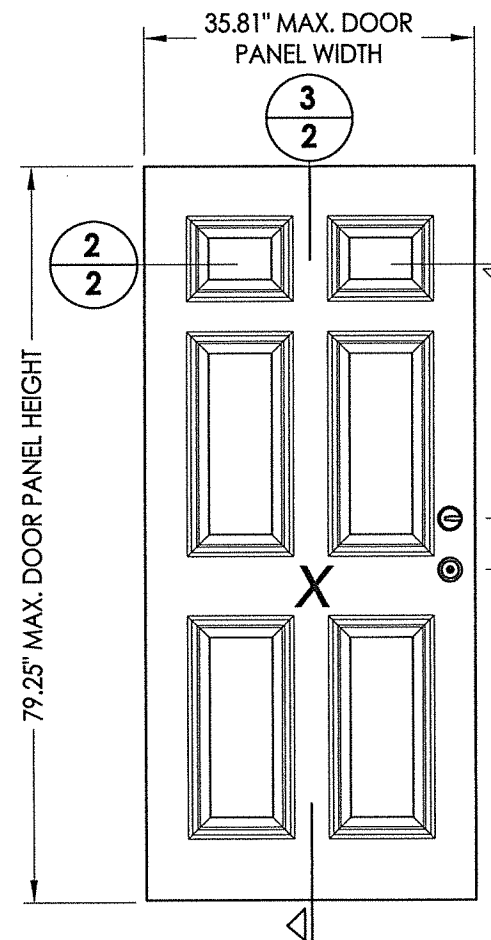
NOTE: BOOK, HYBRID & U1 DOORS
MAY EACH BE FABRICATED AS WOOD
OR COMPOSITE EDGE DOORS.



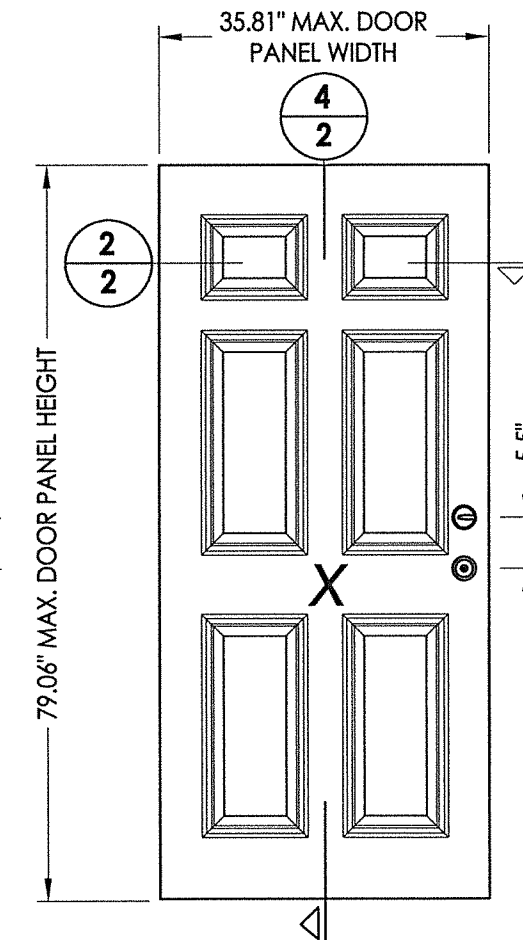
Documents Prepared By: Lyndon F. Schmidt, P.E.
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P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852



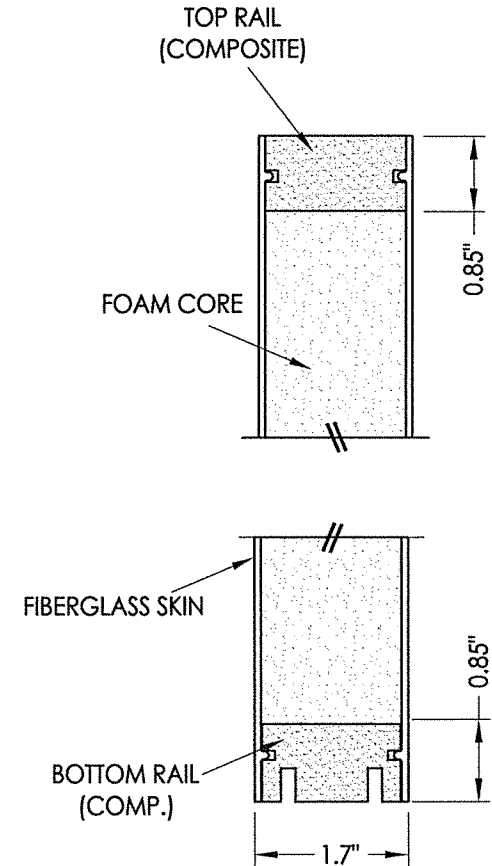
40 FIBERGLASS DOOR PANEL
BOOK DOOR



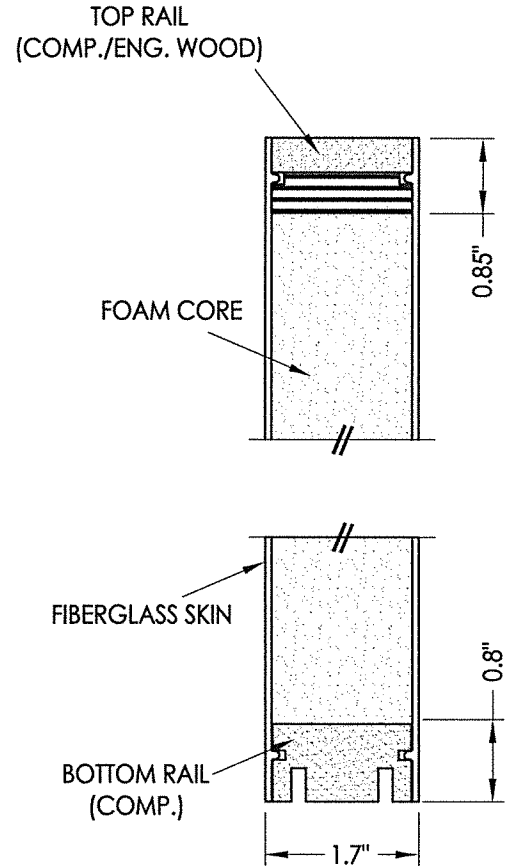
41 FIBERGLASS DOOR PANEL
HYBRID DOOR



42 FIBERGLASS DOOR PANEL
U1 DOOR



3 VERTICAL CROSS SECTION
2 WOOD EDGE DOOR PANEL



4 VERTICAL CROSS SECTION
2 COMPOSITE EDGE DOOR PANEL

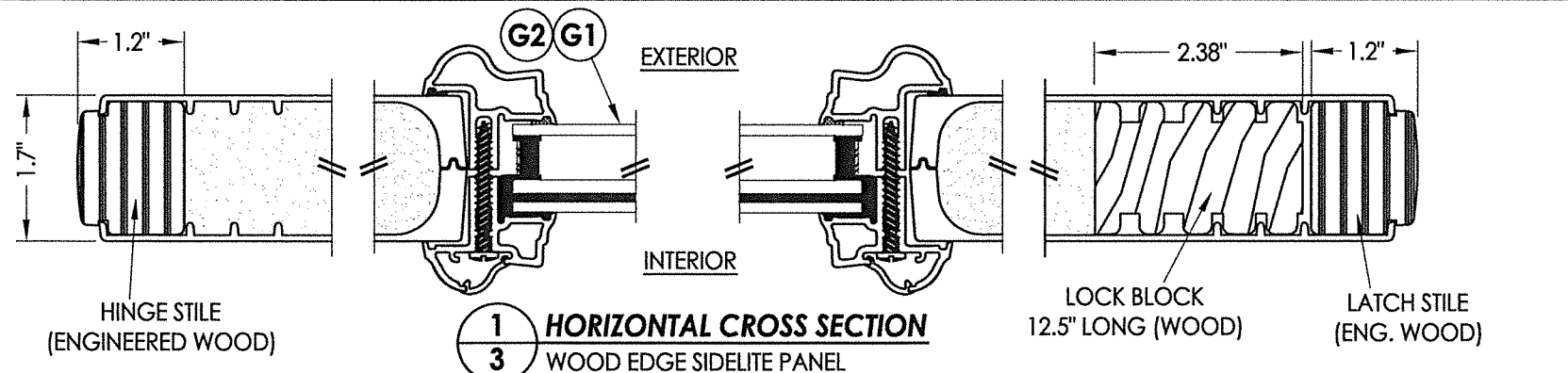
FIBERGLASS SKIN: 0.073\"/>

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

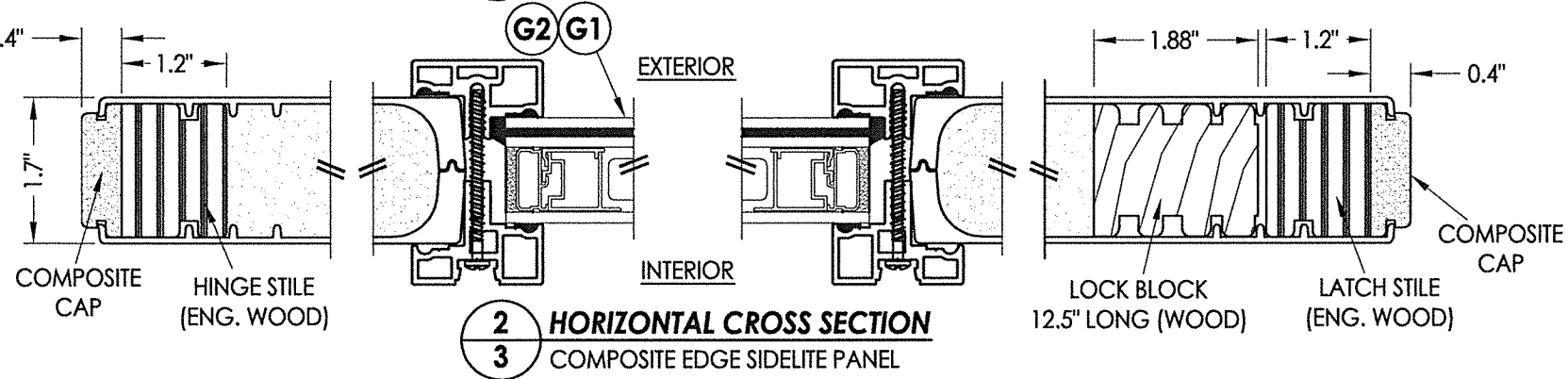
NO.	DATE	BY	REVISIONS

DATE: 5/27/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5212
SHEET 2 OF 10

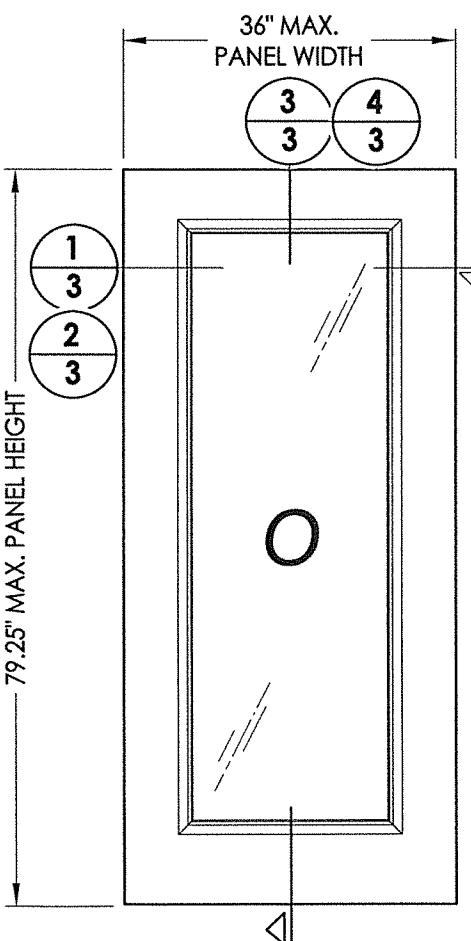
Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - ID XXXX - 68 OP GLZ FG Imp Molded Open (TX 5209-5213)\C - Drawings\TX-5212-5213.dwg



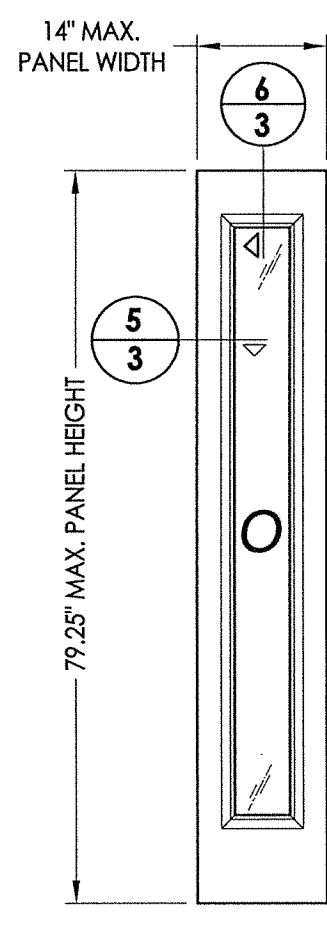
1 HORIZONTAL CROSS SECTION
3 WOOD EDGE SIDELITE PANEL



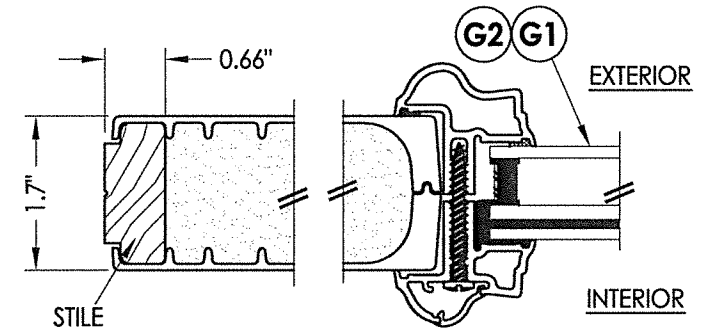
2 HORIZONTAL CROSS SECTION
3 COMPOSITE EDGE SIDELITE PANEL



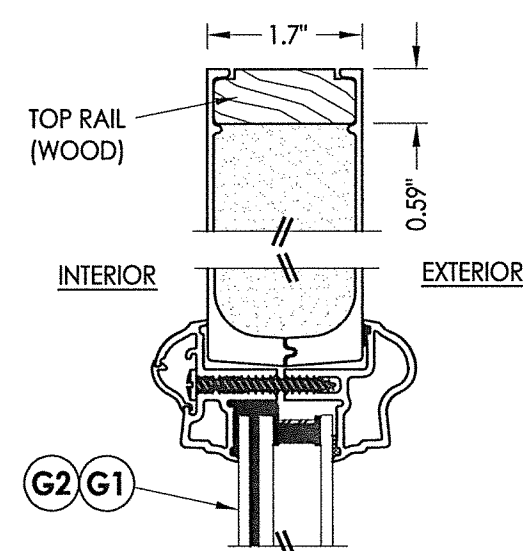
50 FIBERGLASS SIDELITE PANEL
36\"/>



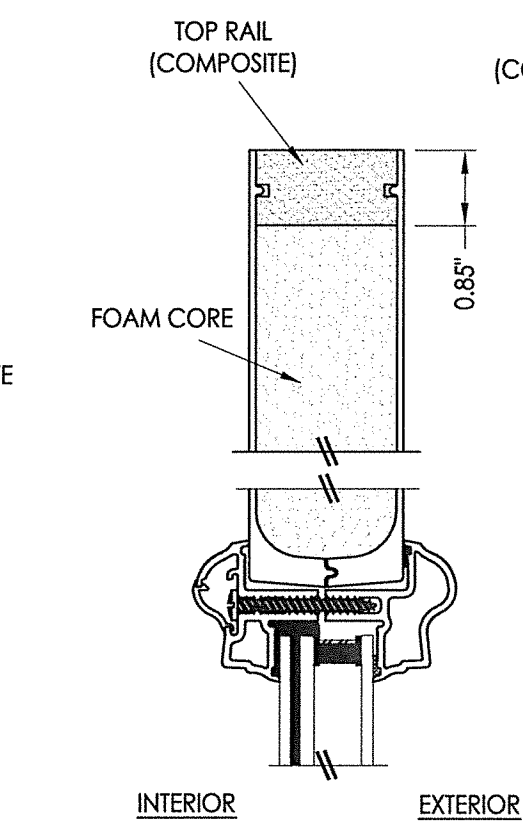
50 SIDELITE PANEL
14\"/>



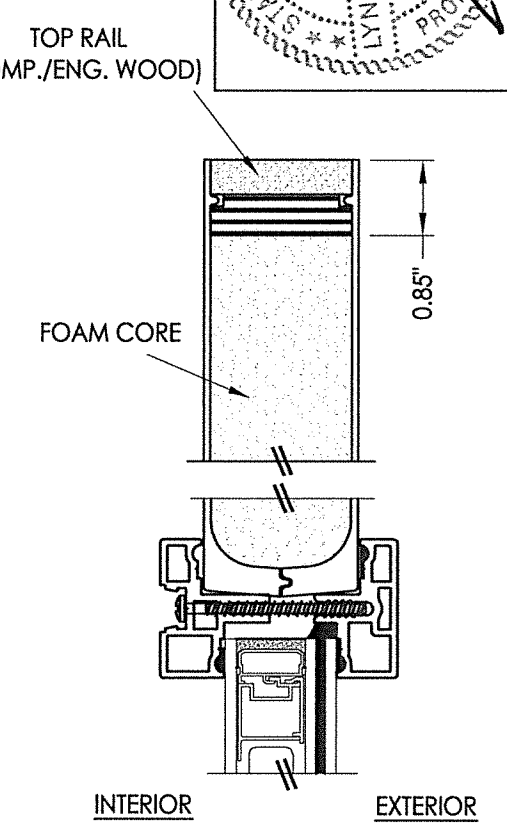
5 HORIZONTAL CROSS SECTION
3 14\"/>



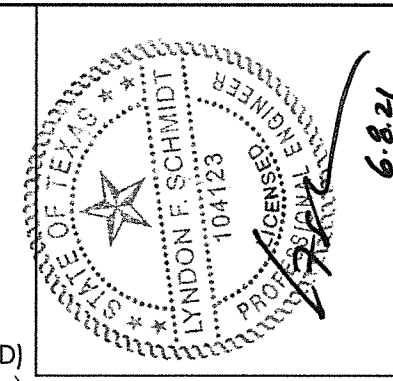
6 VERTICAL CROSS SECTION
3 14\"/>



3 VERTICAL CROSS SECTION
3 WOOD EDGE SIDELITE PANEL



4 VERTICAL CROSS SECTION
3 COMPOSITE EDGE SIDELITE PANEL

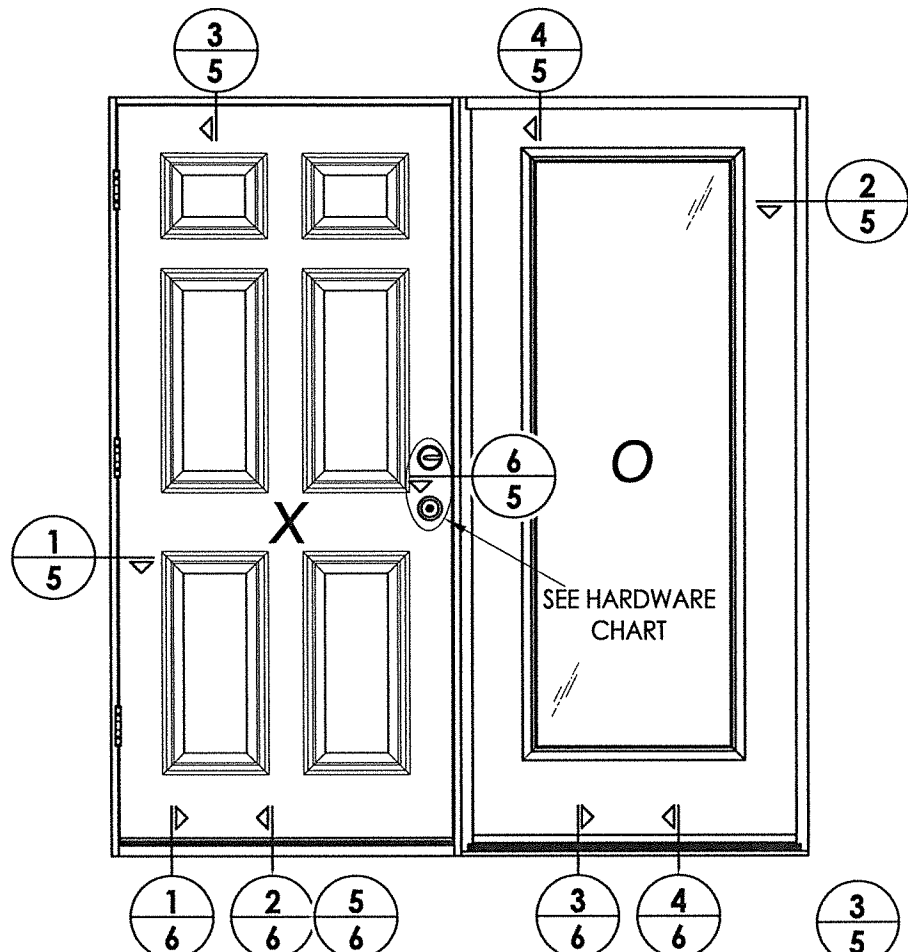


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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

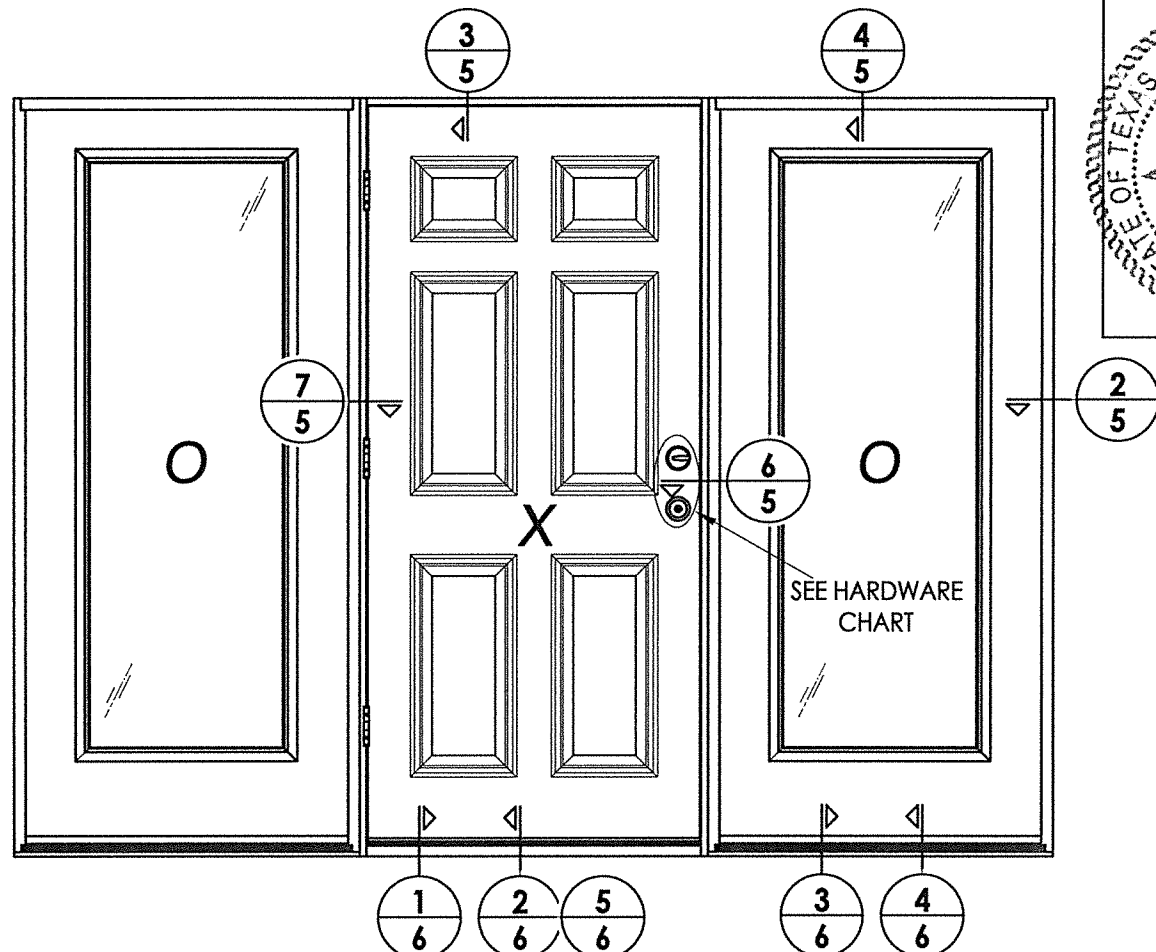
PRODUCT: THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY: SIDELITE PANEL DETAILS

NO.	DATE	BY	REVISIONS

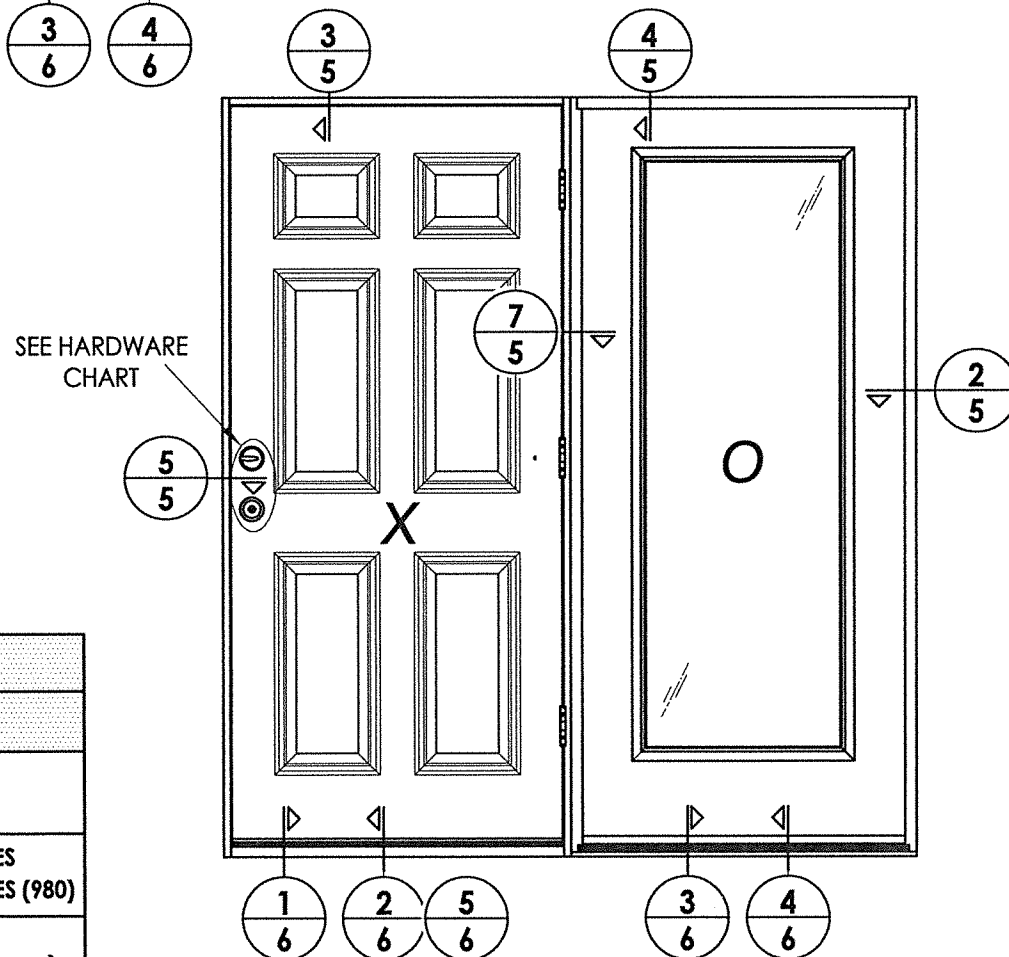
DATE: 5/27/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5212
SHEET 3 OF 10



ELEVATION
XO

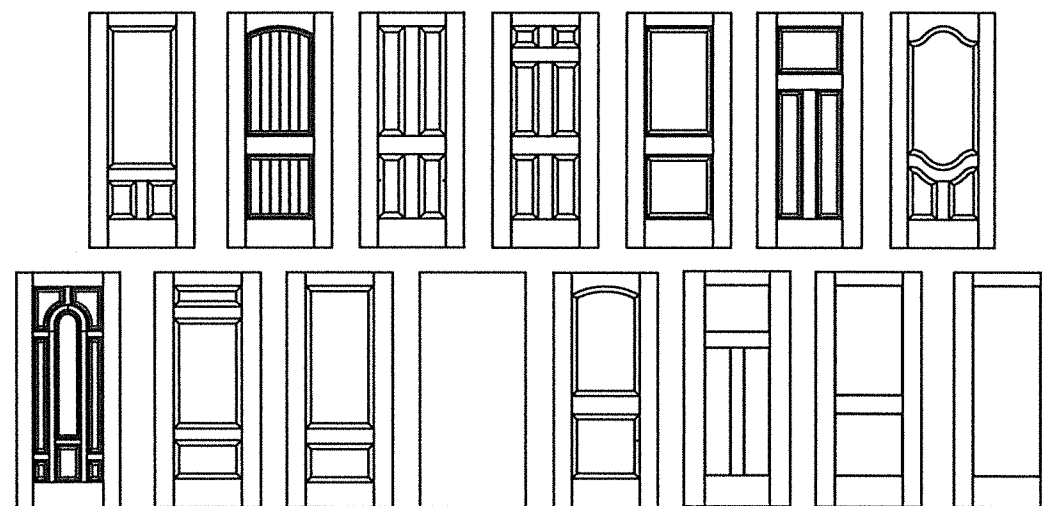


ELEVATION
OXO



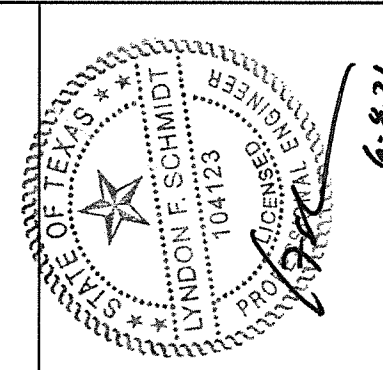
ELEVATION
XO (CENTER HINGE)

HARDWARE TABLE	
MANUFACTURER	MODEL
SCHLAGE	KNOB: F51 DEADBOLT: B60
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)
HOPPE (THERMA-TRU)	MULTIPOINT : MPDGART (3 pt. Manual Tongue)



Fiber-Classic/Smooth-Star Door Panel Options

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



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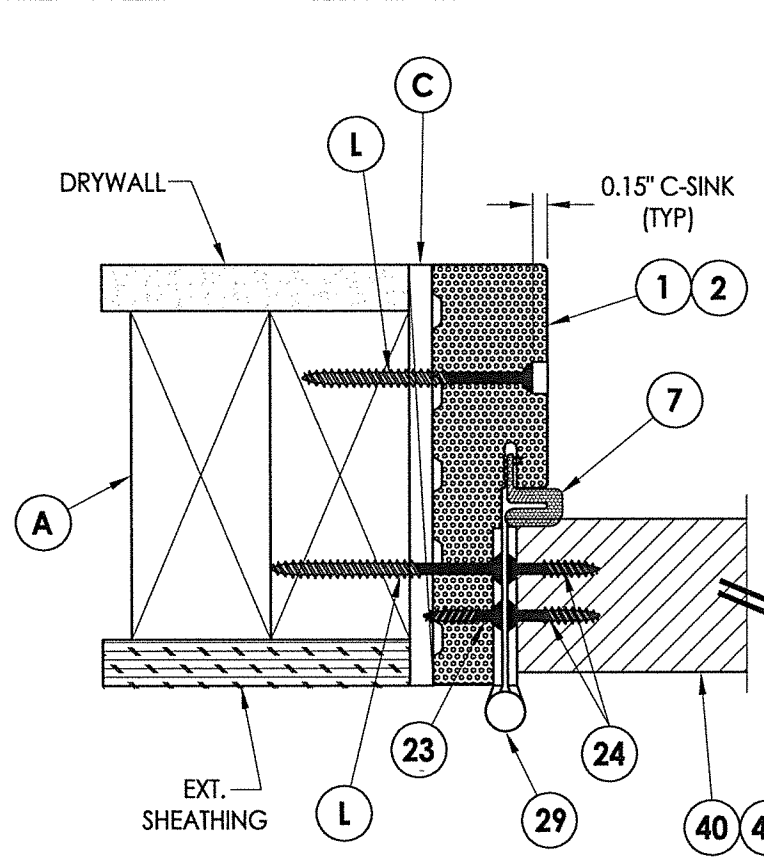
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

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

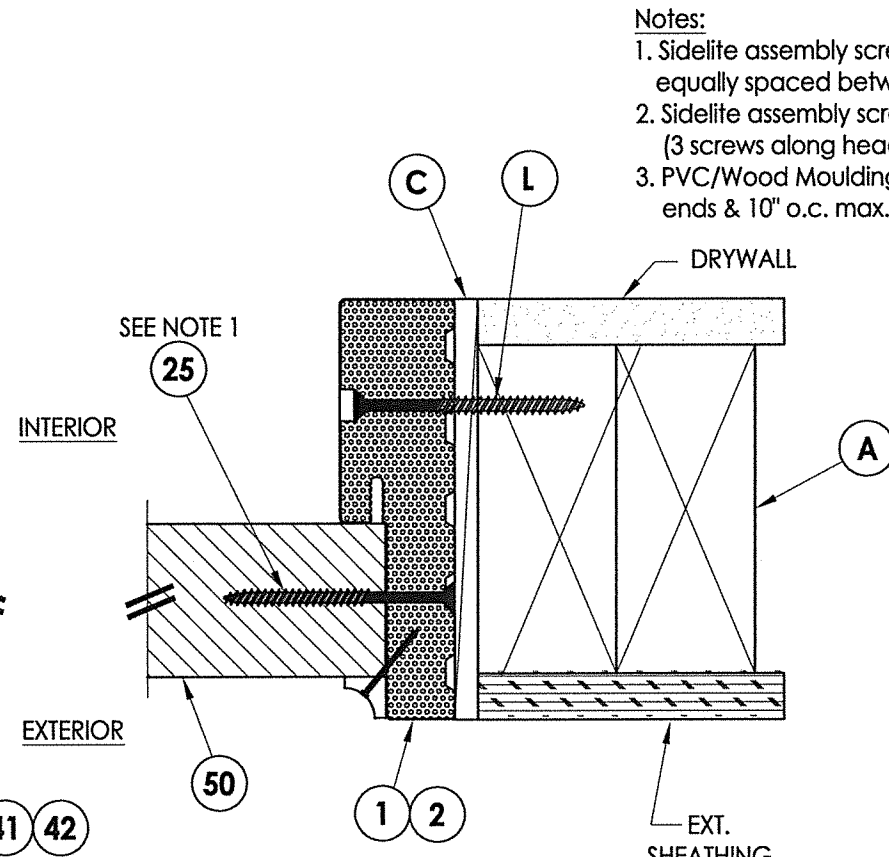
PRODUCT: THERMA-TRU
FIBERGLASS DOOR
PART OR ASSEMBLY: ELEVATIONS

NO.	DATE	BY	REVISIONS

DATE: 5/27/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5212
SHEET 4 OF 10



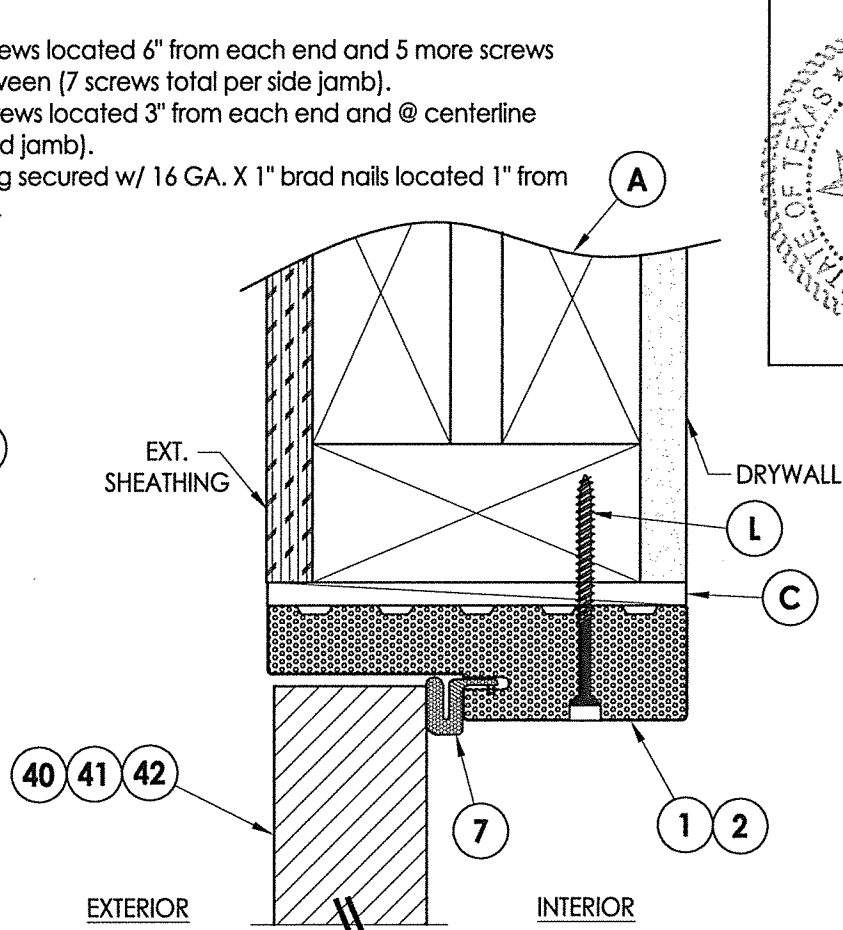
1 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)



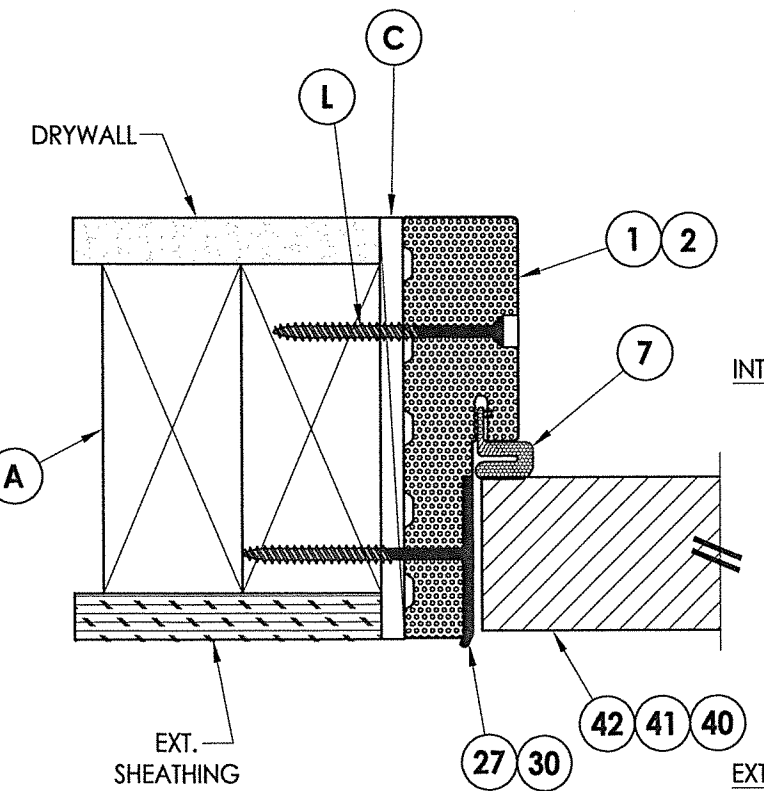
2 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)

Notes:

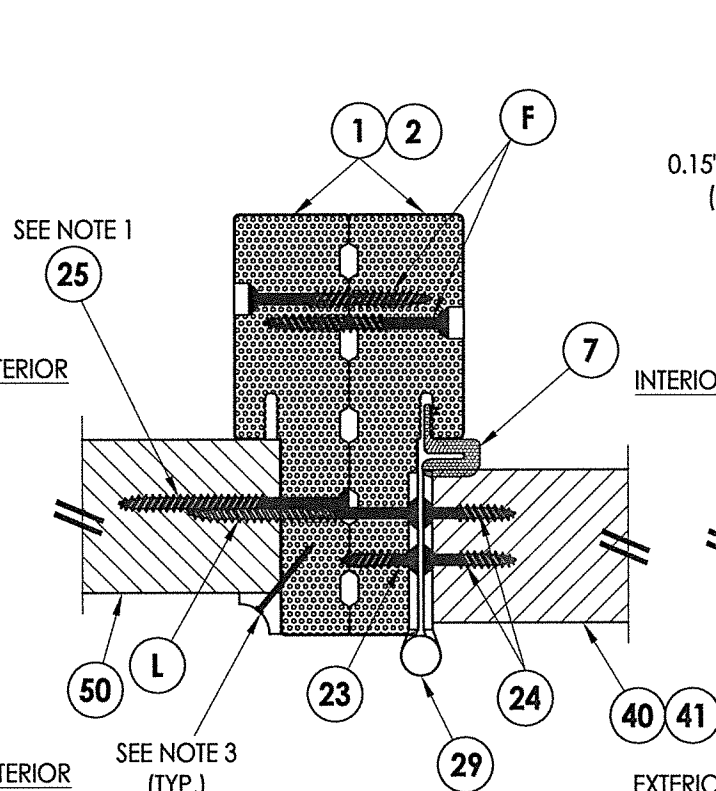
1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end and @ centerline (3 screws along head jamb).
3. PVC/Wood Moulding secured w/ 16 GA. X 1" brad nails located 1" from ends & 10" o.c. max.



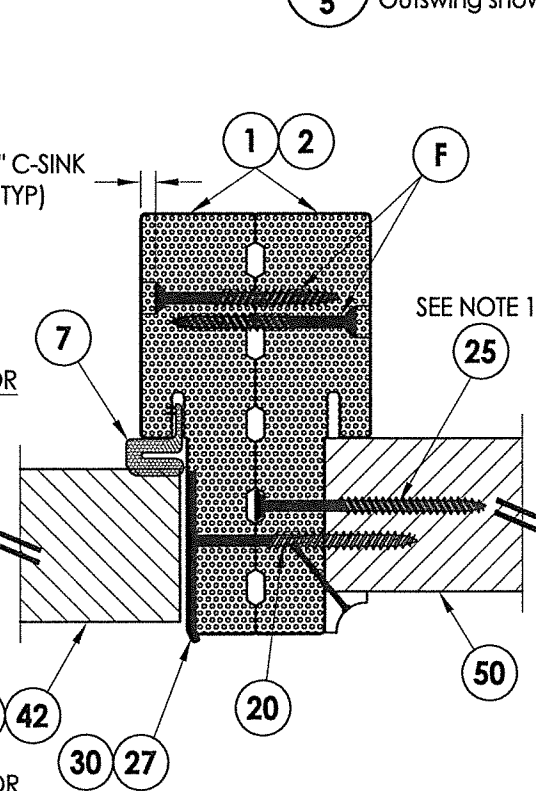
3 VERTICAL CROSS SECTION
5 Outswing shown (Inswing similar)



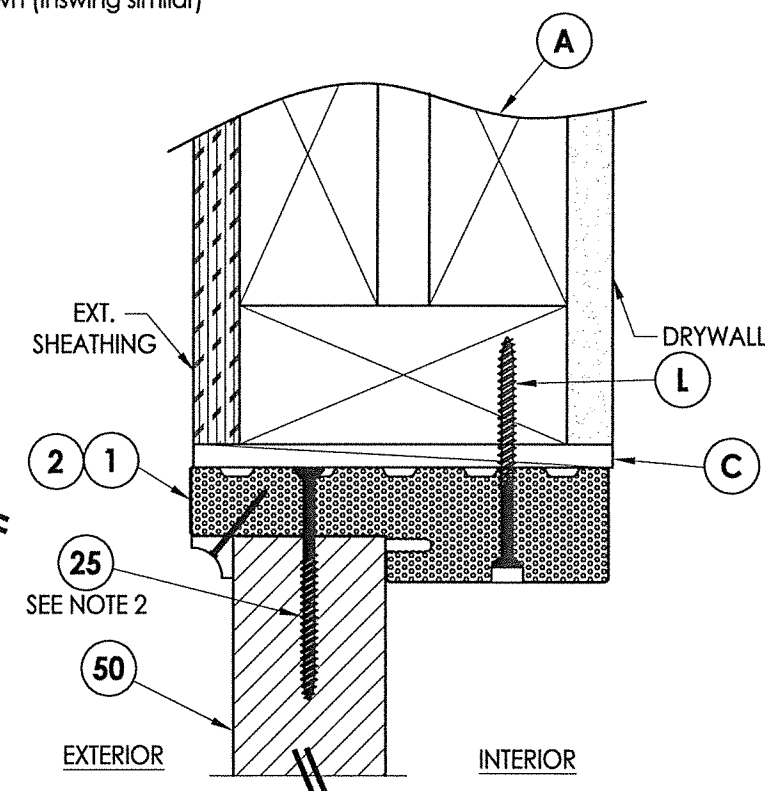
5 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)



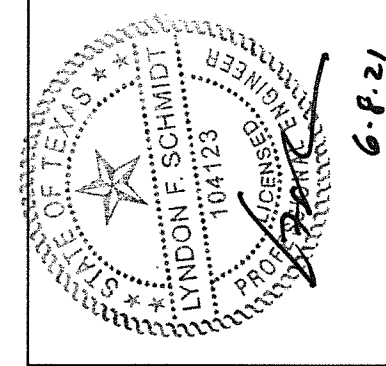
7 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)



6 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)



4 VERTICAL CROSS SECTION
5 Outswing shown (Inswing similar)



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 6-f.21
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 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: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)

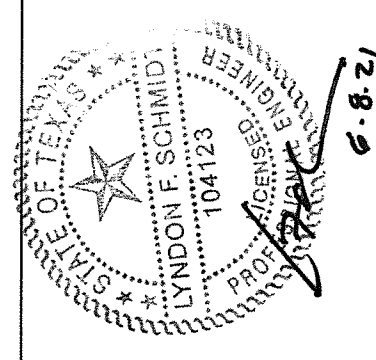
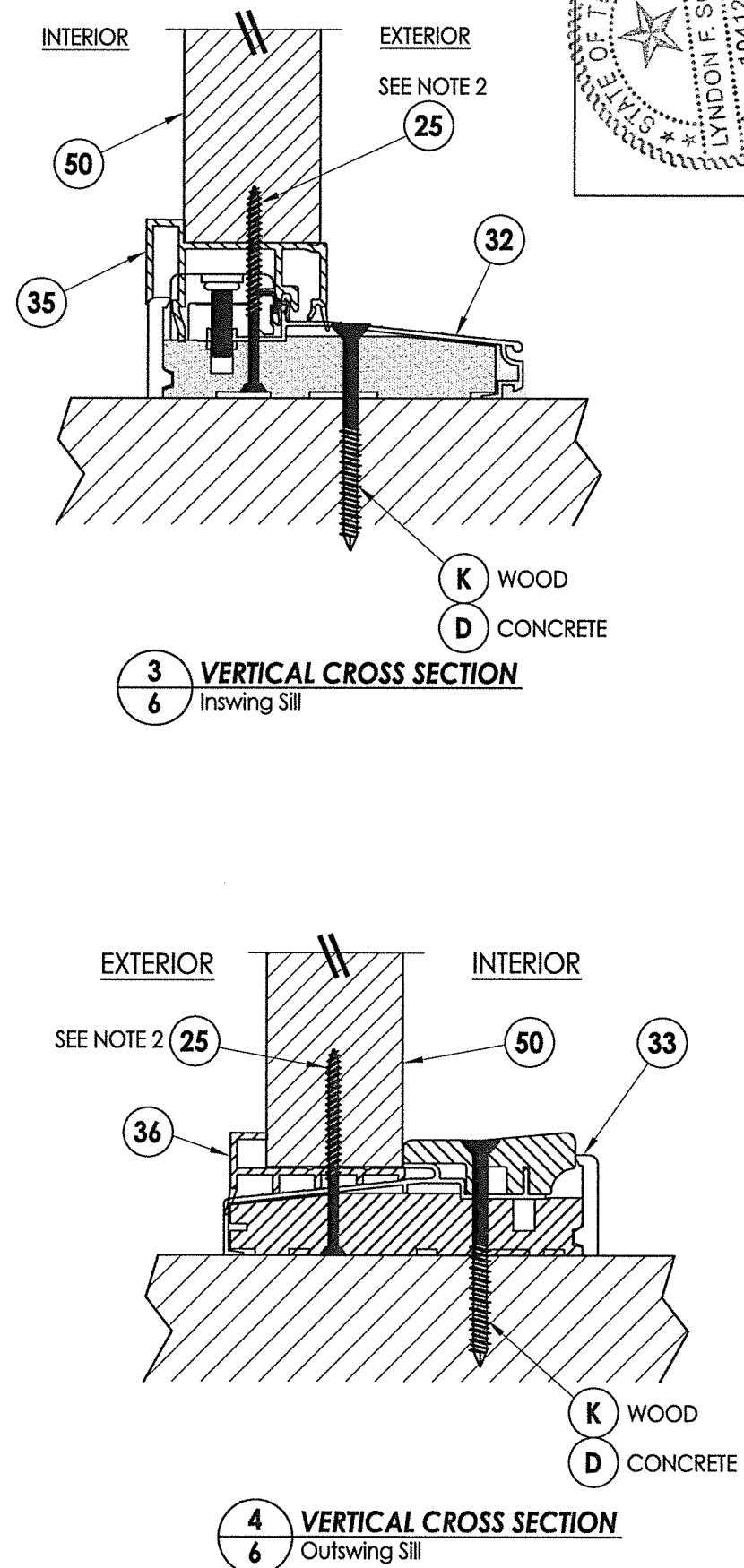
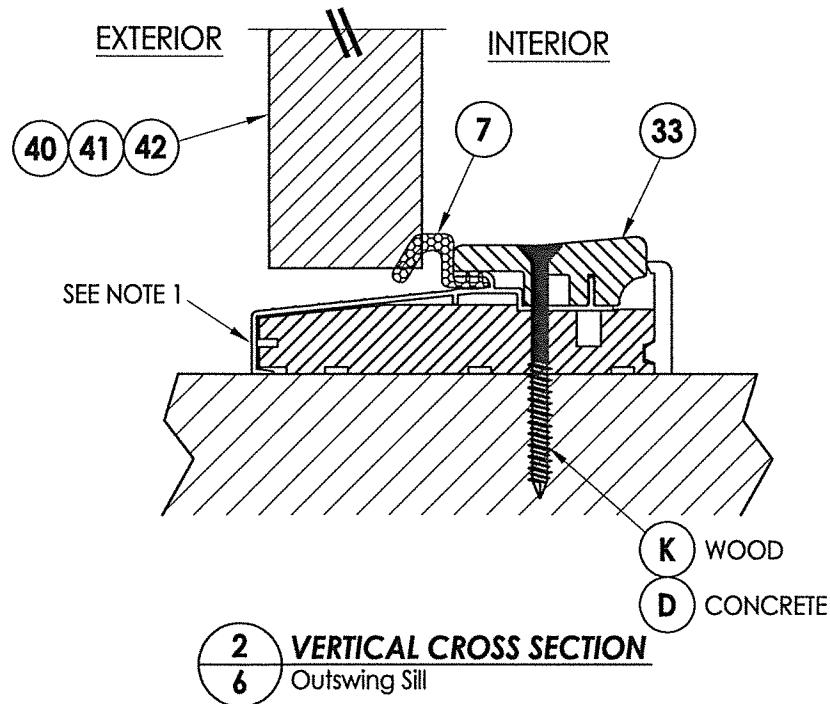
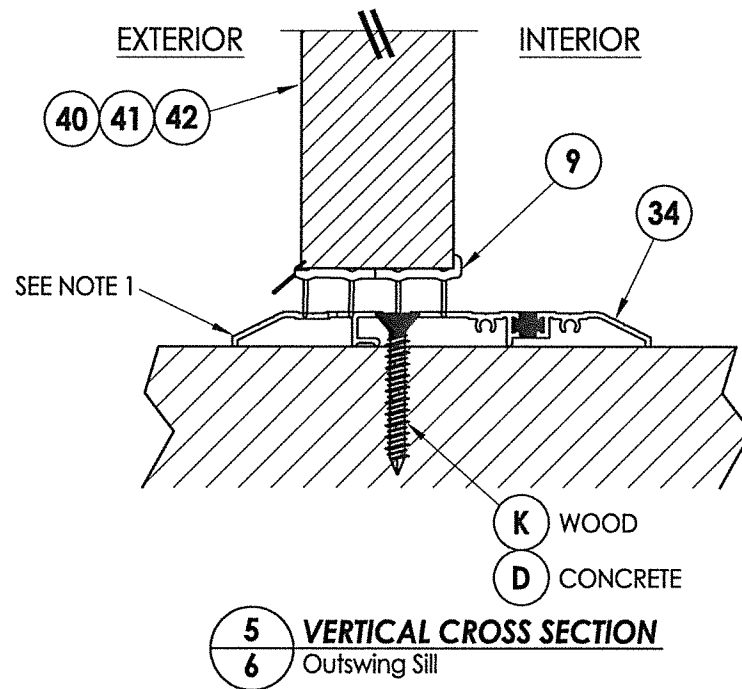
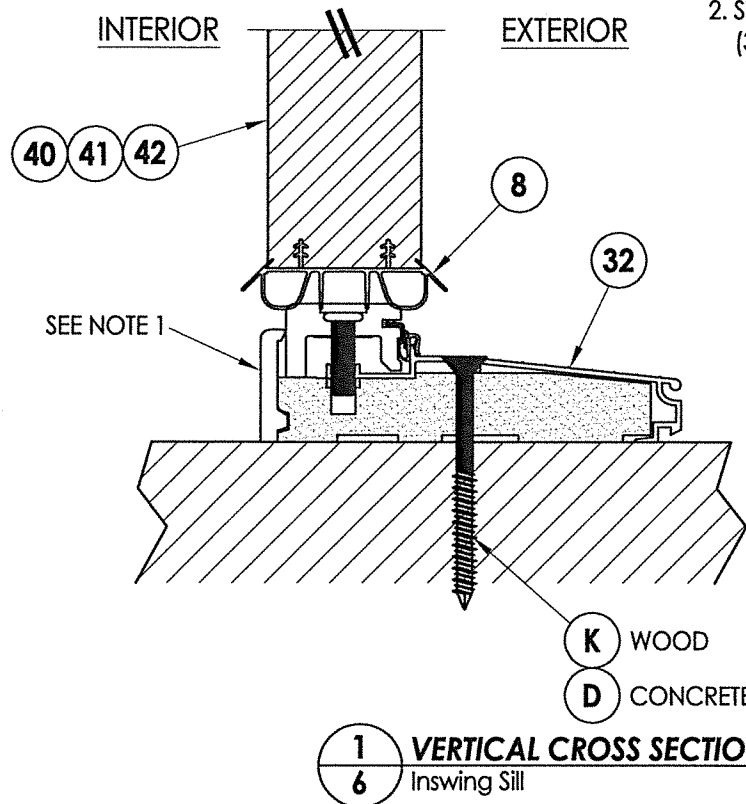
NO.	DATE	BY	REVISIONS

DATE: 5/27/21
 SCALE: N.T.S.
 DWG. BY: RW
 CHK. BY: LFS
 DRAWING NO.: TX-5212
 SHEET 5 OF 10

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - ID XXXX - 68 OP GLZ FG Imp Molded Open (TX 5209-5213)\C - Drawings\TX-5212-5213.dwg

Notes:

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



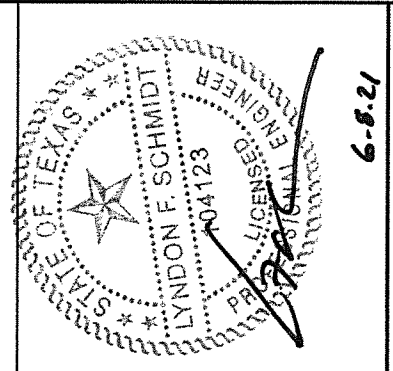
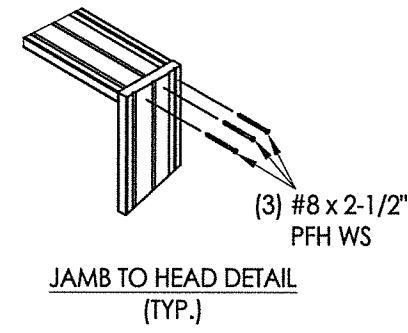
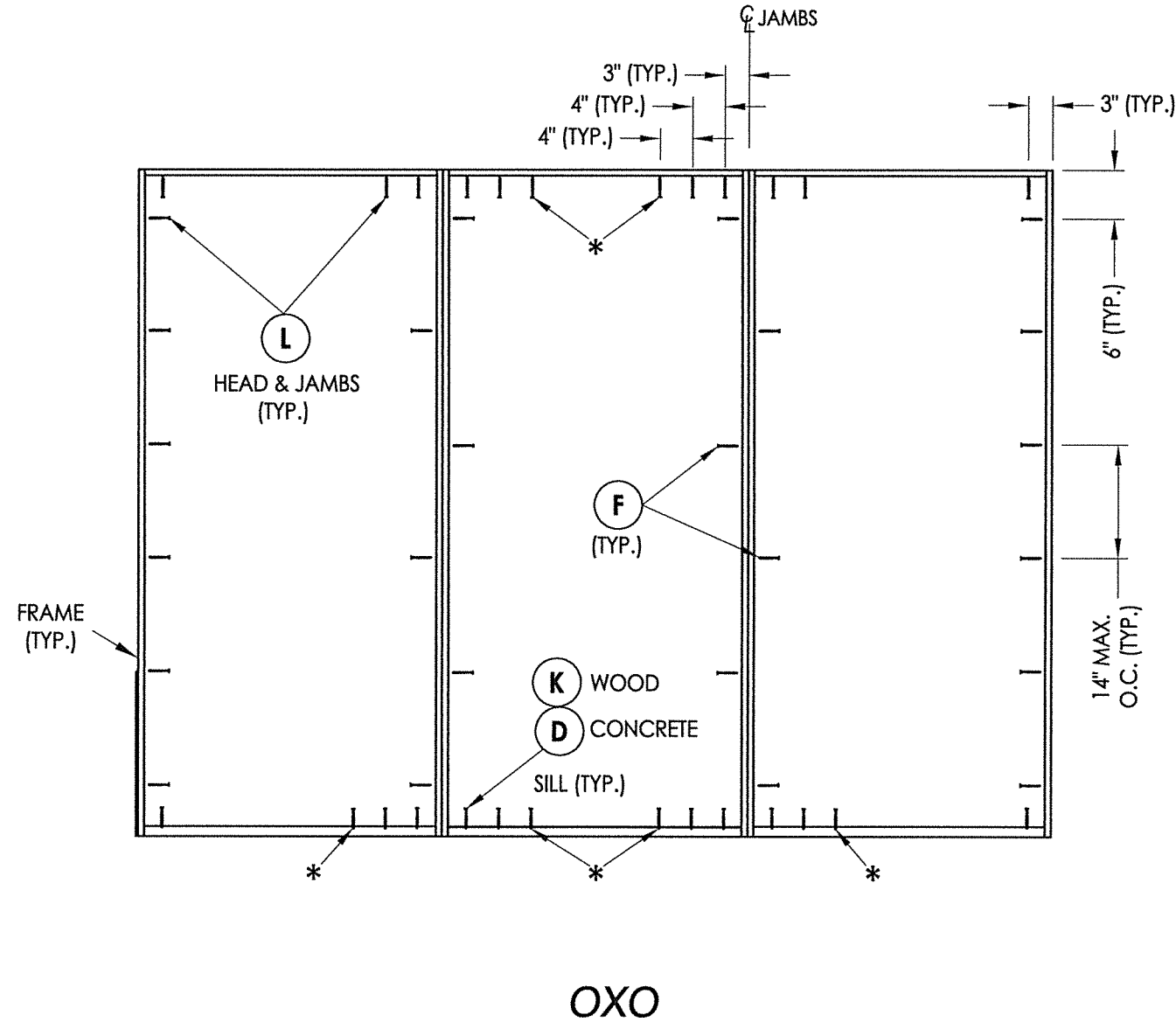
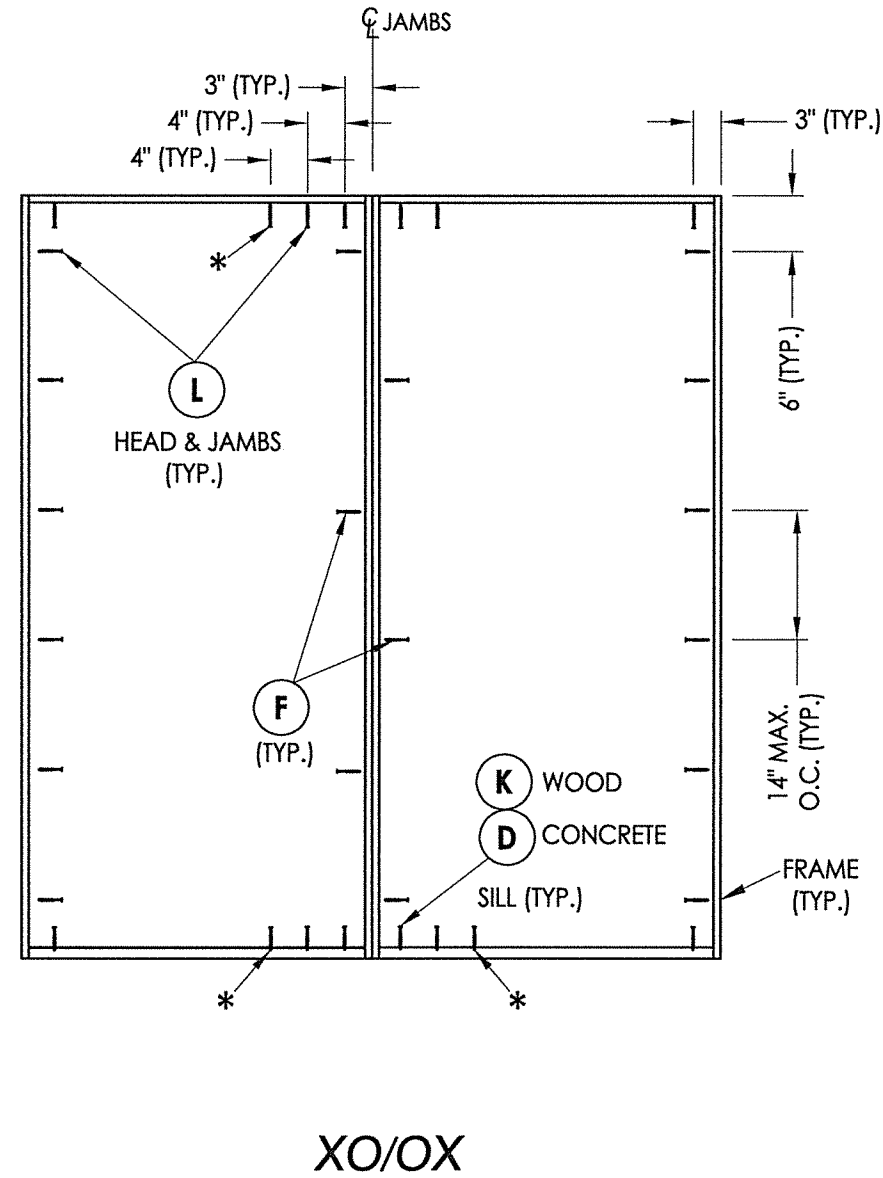
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

PRODUCT: THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)

NO.	DATE	BY	REVISIONS

DATE: 5/27/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5212
SHEET 6 of 10



6-8-21

Documents Prepared By: Lyndon F. Schmidt, P.E.
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Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY: FRAME ANCHORING

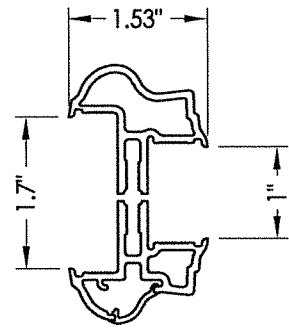
NO.	DATE	BY	REVISIONS

DATE: 5/27/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5212
SHEET 7 of 10

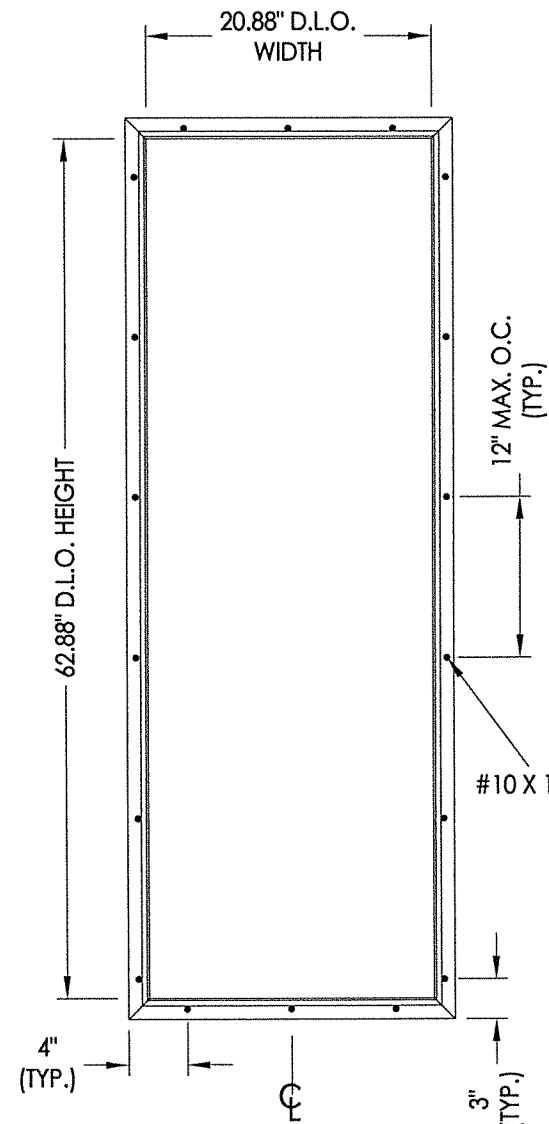
FRAME ANCHORING

14" SIDELITE NOTES:

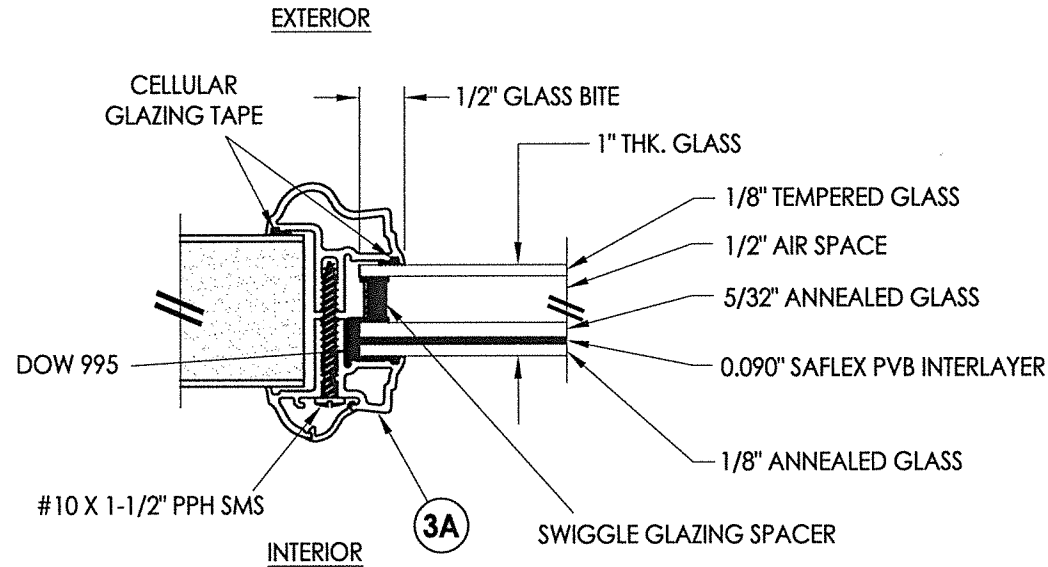
* ANCHOR NOT REQUIRED FOR DOORS WITH 14" SIDELITES



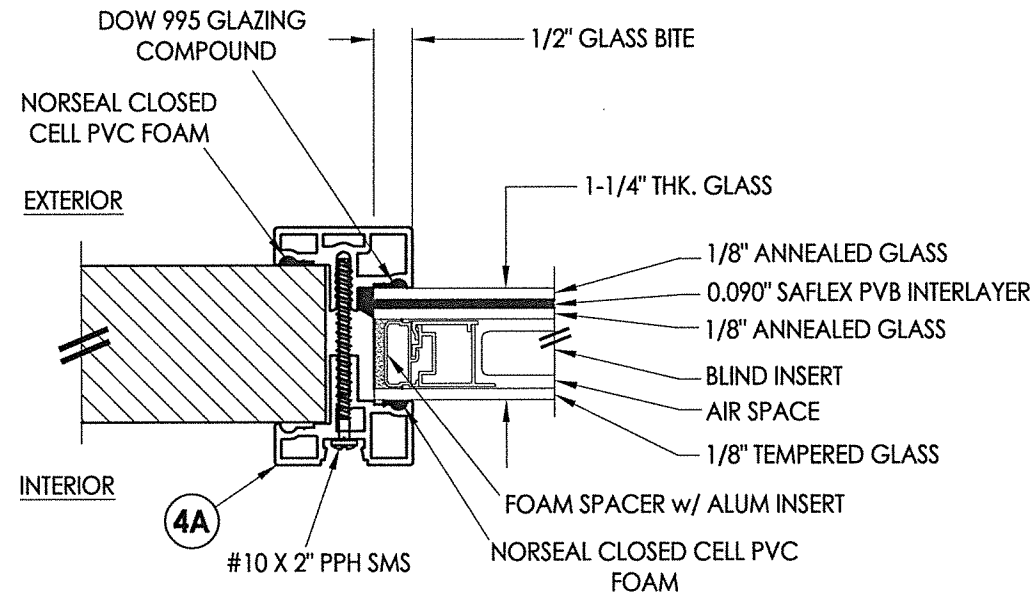
3A ALUMINUM FRAME
Aluminum Impact Lite Frame



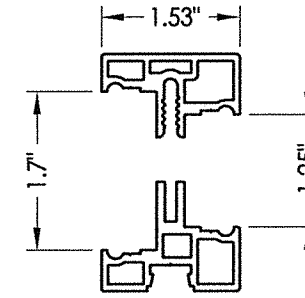
3A ALUMINUM LITE FRAME*
(w/ 1" Glazing)



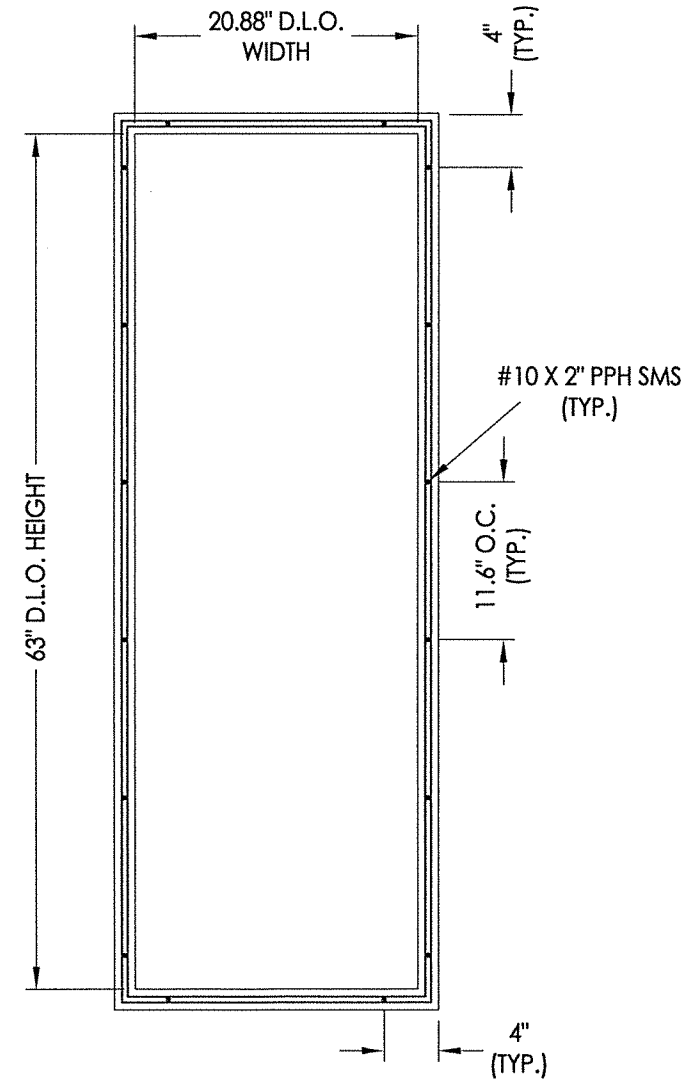
G1 GLAZING DETAIL
Aluminum Impact Lite Frame



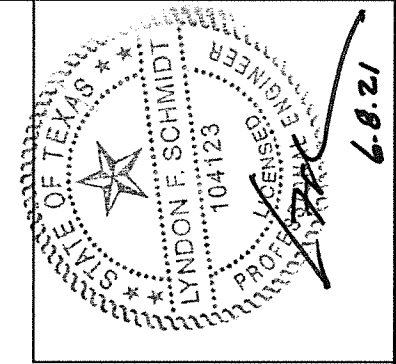
G2 GLAZING DETAIL
1-1/4" Insulated Laminated Glass
w/ Internal Blinds



4A ALUMINUM FRAME
Aluminum Impact Lite Frame



4A ALUMINUM LITE FRAME**
(w/ 1-1/4" Glazing)



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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	REVISIONS

DATE:	5/27/21
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	TX-5212
SHEET	9 OF 10

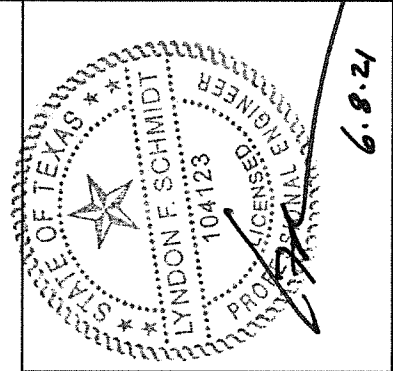
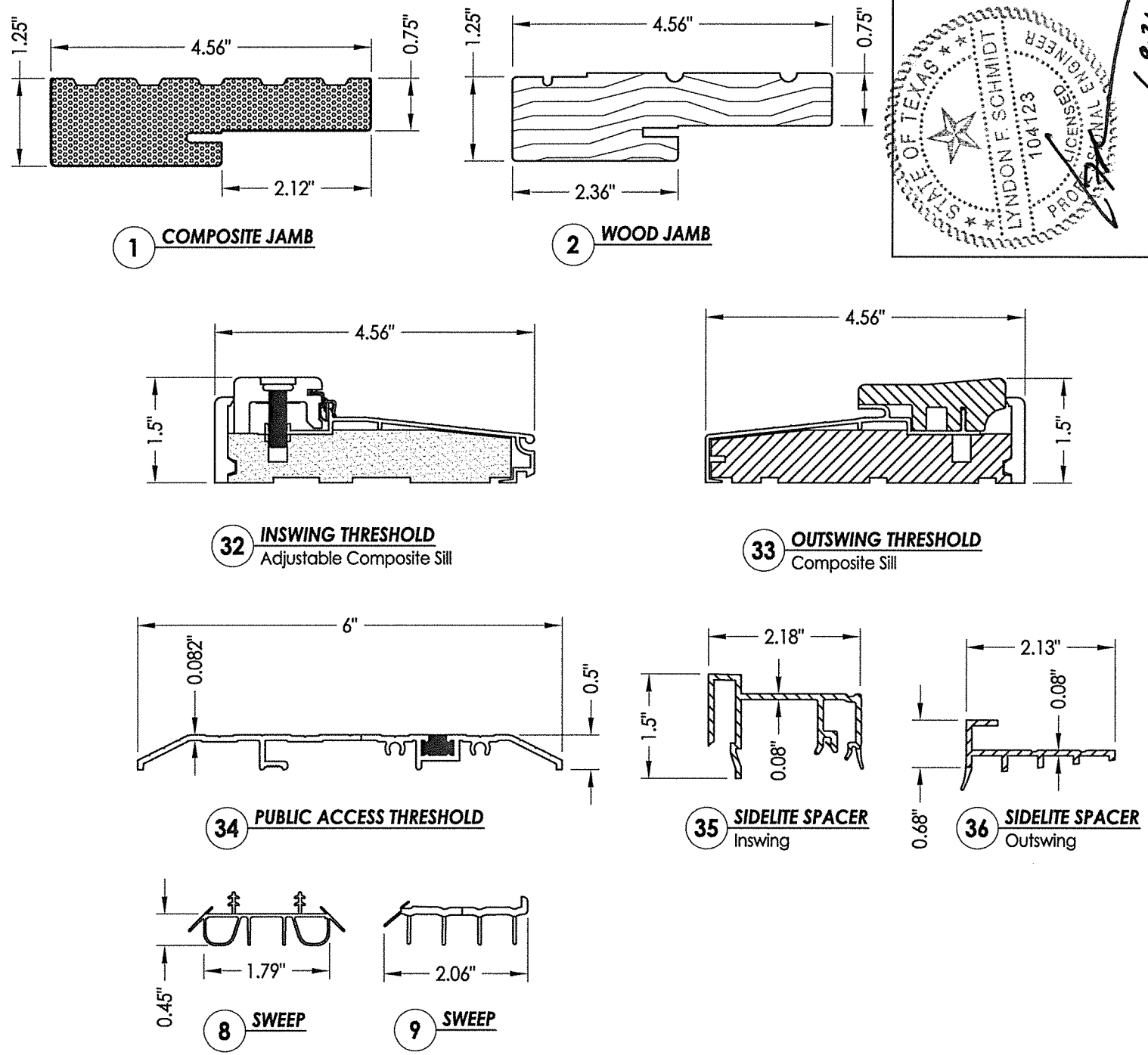
14" SIDELITE NOTES:

- * 14" SIDELITE HAS ONLY 2 END SCREWS @ TOP & BOTTOM
- ** 14" SIDELITE HAS ONLY 1 SCREW @ CL @ TOP & BOTTOM

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - ID XXXX - 6'8 OP GLZ FG Imp Molded Open (TX 5209-5213)\C - Drawings\TX-5212-5213.dwg

BILL OF MATERIALS

ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" 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
2	WOOD JAMB (FINGER JOINT PINE)	WOOD
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
30	LATCH & DEADBOLT STRIKE PLATE	STEEL
31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	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	-



6.8.21

Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	BY	REVISIONS

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.

DATE: 5/27/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5212
SHEET 10 OF 10