



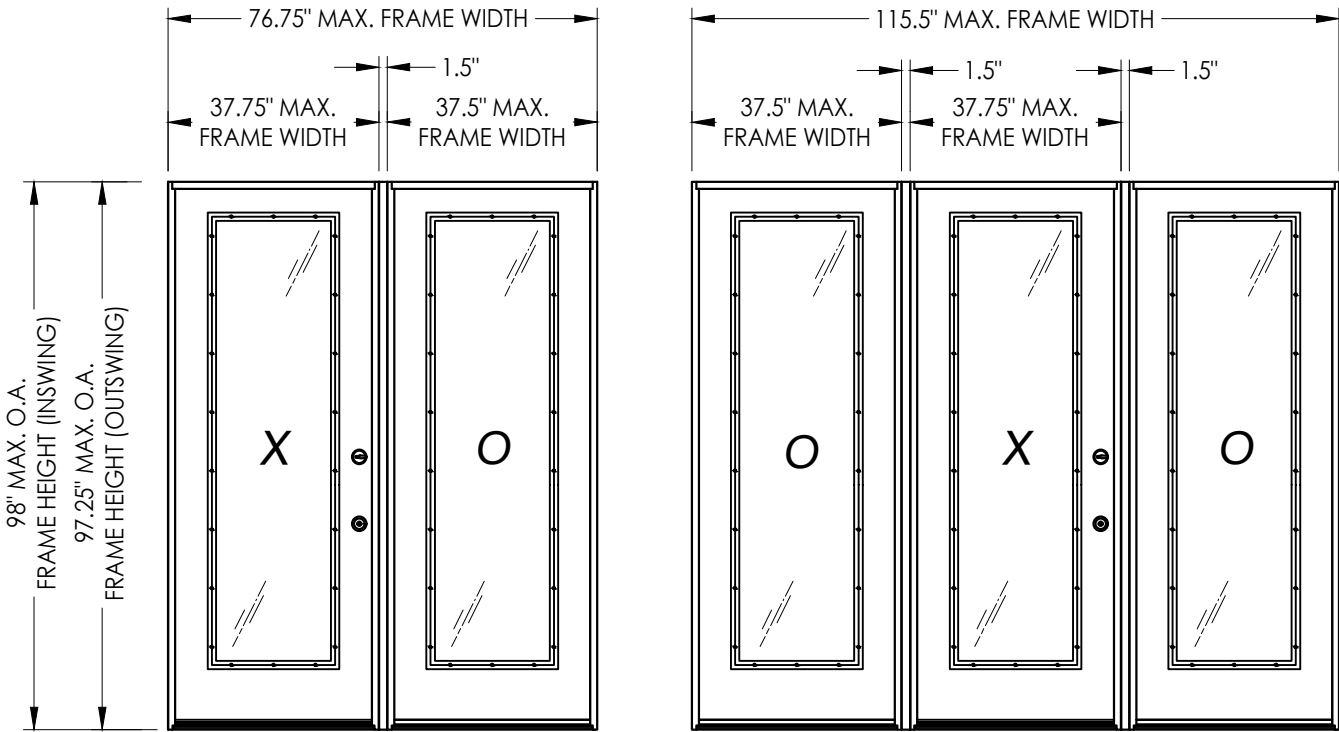
Fiber-Classic® & Smooth-Star®

COMPOSITE EDGE
GLAZED FIBERGLASS SINGLE DOOR
w/ SIDELITE(S)
INSWING/OUTSWING
"IMPACT"

GENERAL NOTES

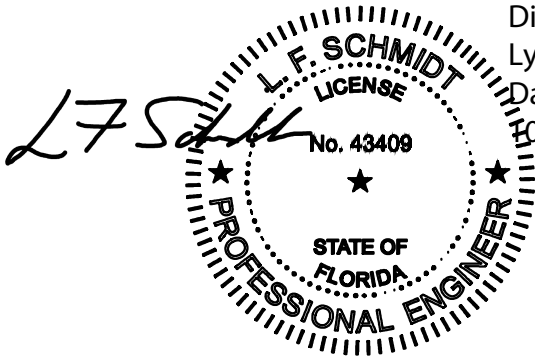
1. This product evaluation drawing has been developed in compliance with the 8th Edition (2023) Florida Building Code (FBC) including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall 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".
8. Outswing configurations using Coastal Sill (item #19) & Composite Sill (item #16) under active doors meet water infiltration requirements for "HVHZ". All other configurations do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.

TABLE OF CONTENTS			
SHEET#	DESCRIPTION	SHEET#	
1	Typical Elevations, Design Pressures & General Notes	8	Vertical Cross Sections (Thresholds)
2	Door Panel Details	9	Buck Anchoring
3	Sidelite Panel Details	10	Frame Anchoring
4	Elevations	11	Hardware Details
5	Horizontal & Vertical Cross Sections (2X Buck)	12	Glazing Details
6	Horizontal & Vertical Cross Sections (1X Buck)	13	Components
7	Horizontal & Vertical Cross Sections (Direct to Masonry)	14	Bill of Materials



CONFIGURATION	LOCK HARDWARE	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	Latch & Deadbolt	+50.0	-55.0	+50.0	-50.0
XO, OX, OXO	Multipoint	+50.0	-55.0	+55.0	-55.0

See Sheet 4 for Hardware Specifications



Digitally signed by
Lyndon F Schmidt
Date: 2023.07.25
10:58:17 -04'00'

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

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

PRODUCT:

THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

4	7/25/23	UPDATE TO 8TH ED. (2023) FBC	LFS
3	7/22/20	UPDATE TO 7th ED (2020) FBC	LFS
2	4/06/19	ADD 5-1/2" LATCH/DB SPACING	LFS
1	7/14/17	UPDATE TO 6TH ED. (2017) FBC	JK
NO.	DATE		BY

REVISIONS

DATE: 8/02/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

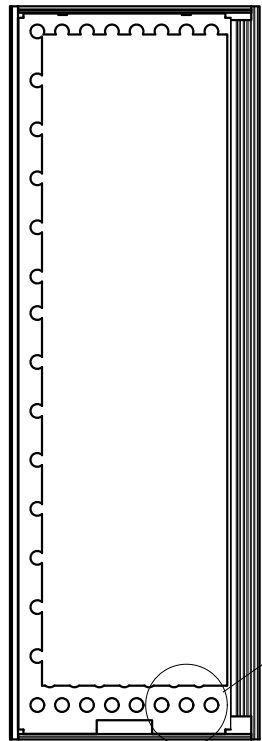
DRAWING NO.: FL-20470.11

SHEET 1 OF 14

© 2016 R.W. BUILDING CONSULTANTS INC.

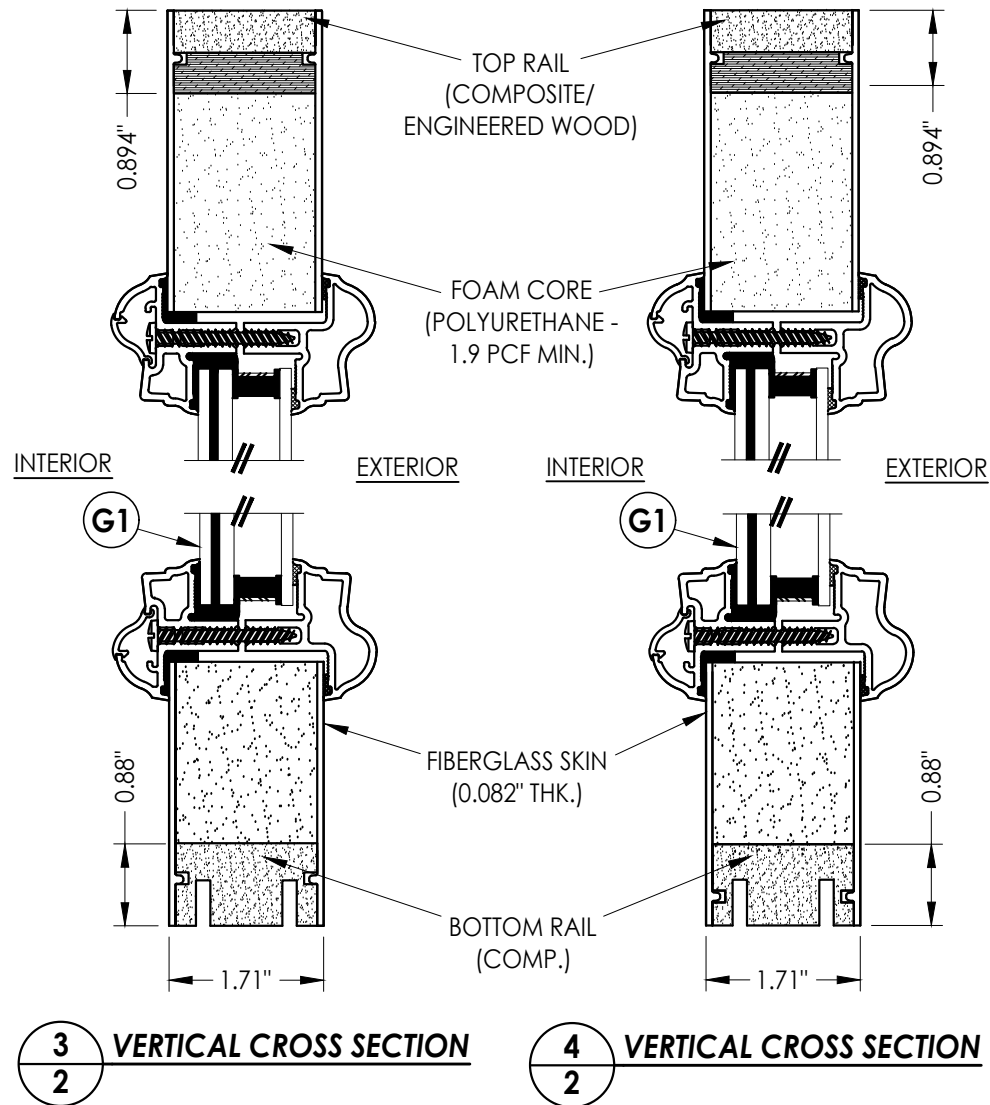
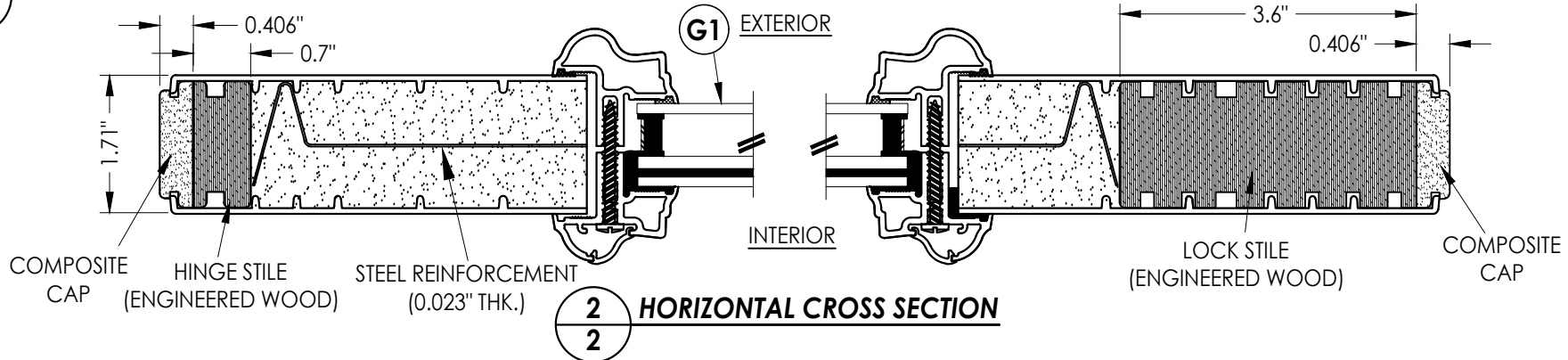
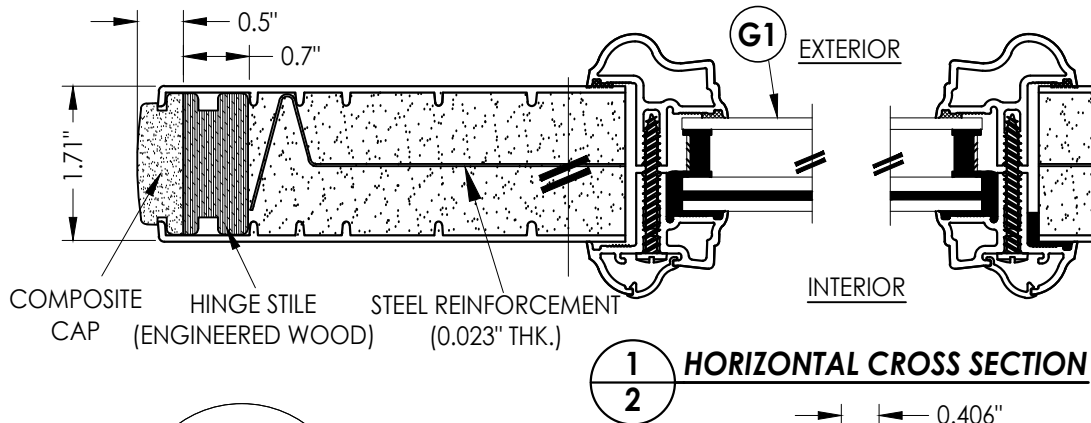
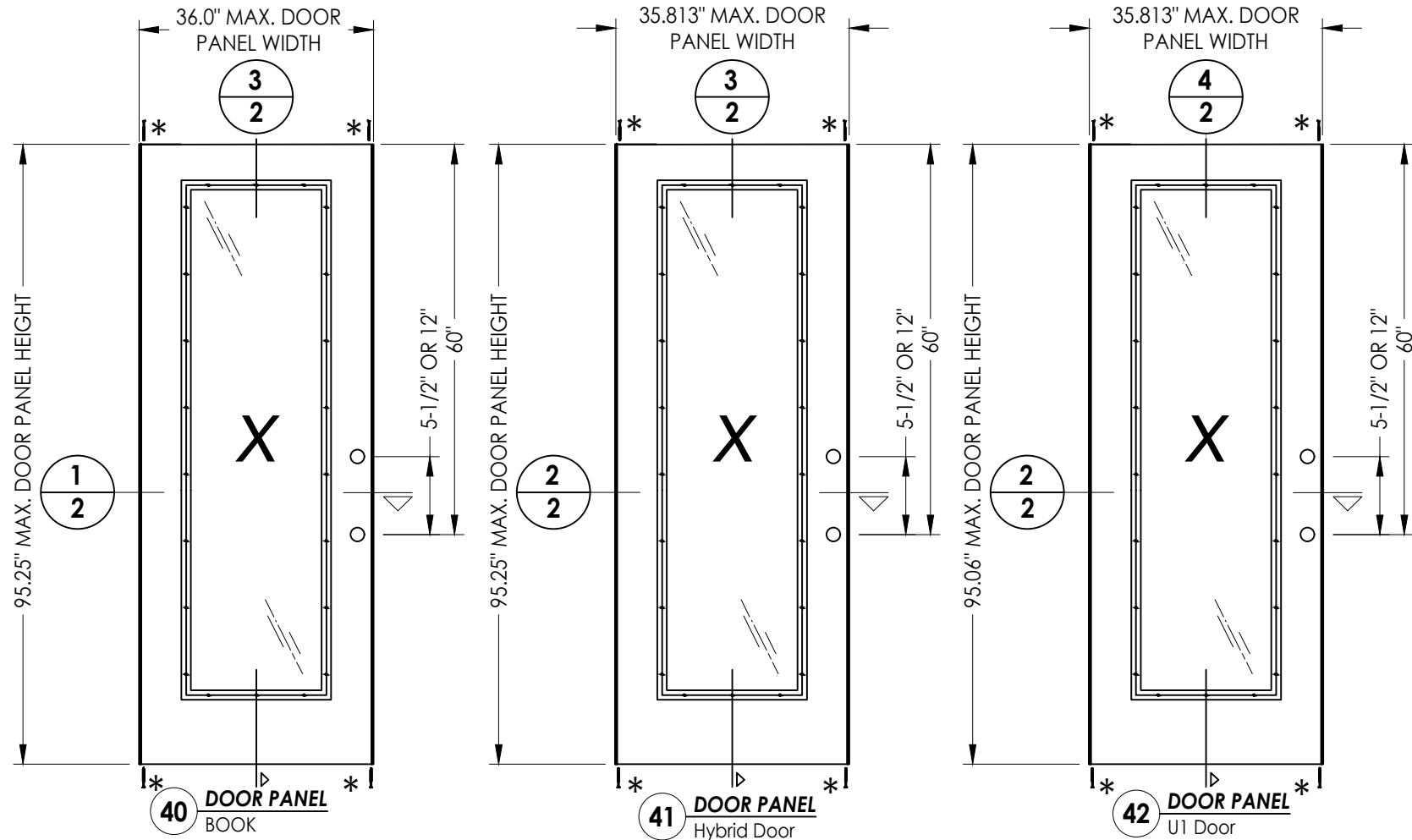
RWBUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.10-12.dwg



DETAIL A-A
PANEL REINFORCEMENT
(0.023" Thick Steel)

* #8 X 2.5" PFH WS (TYP. @ EACH DOOR CORNER)



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

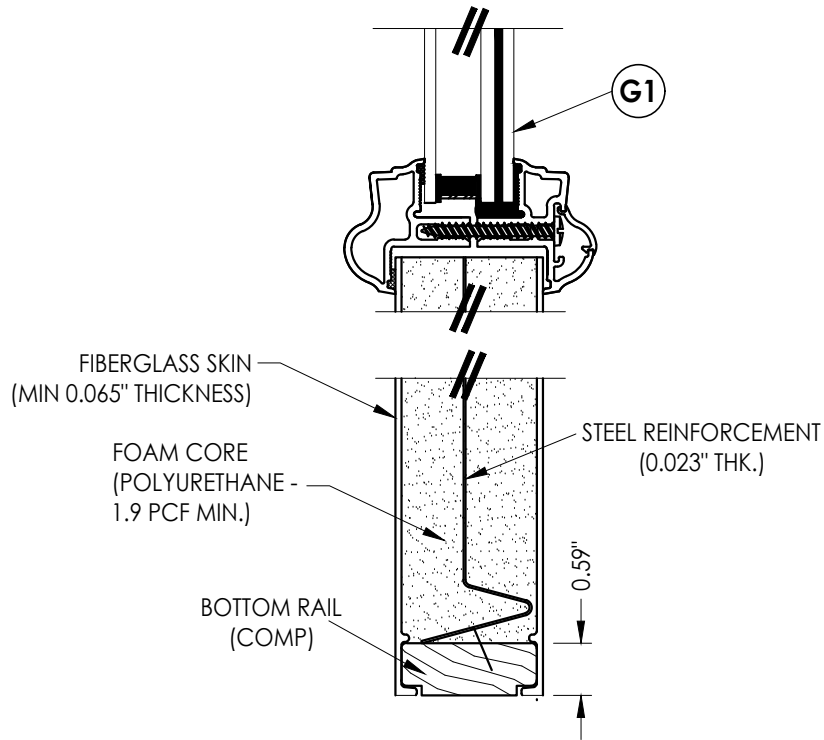
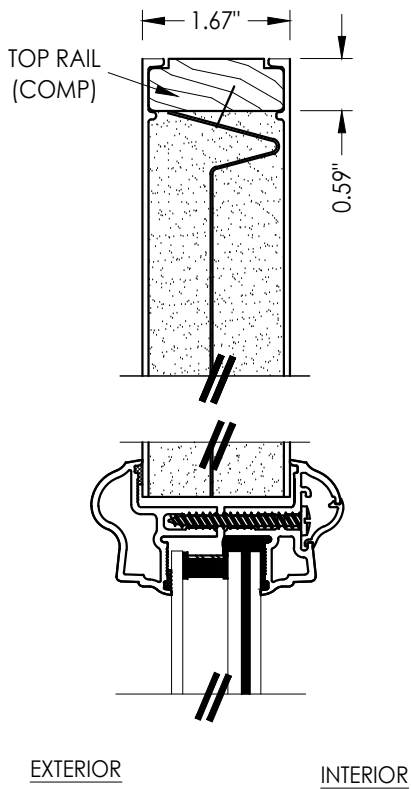
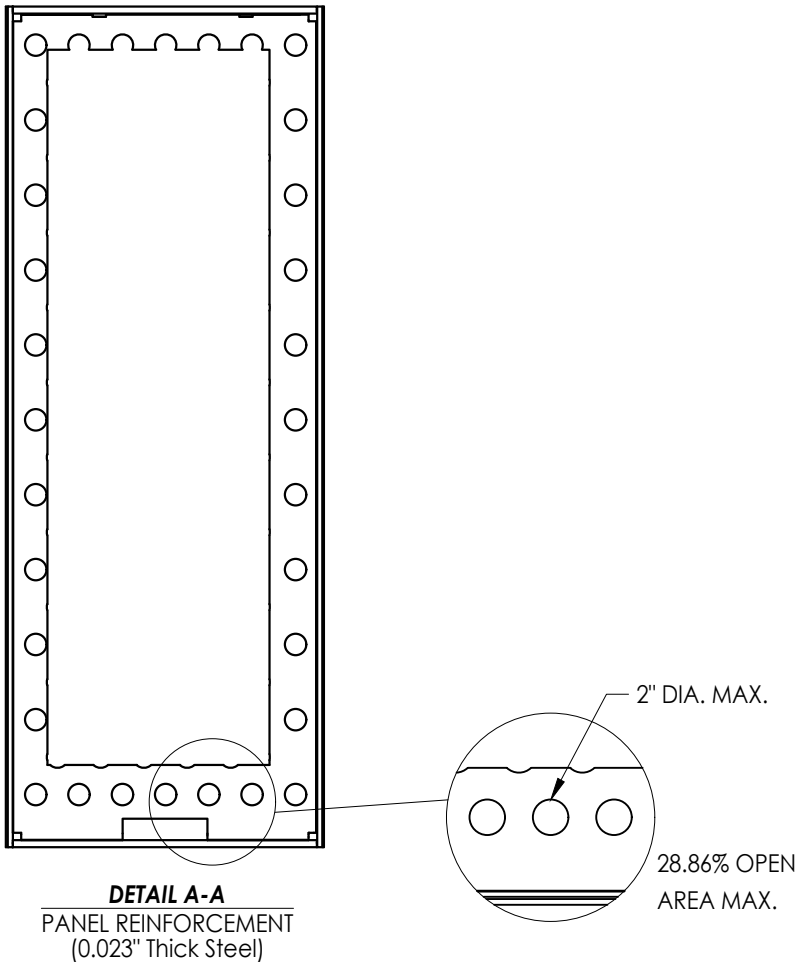
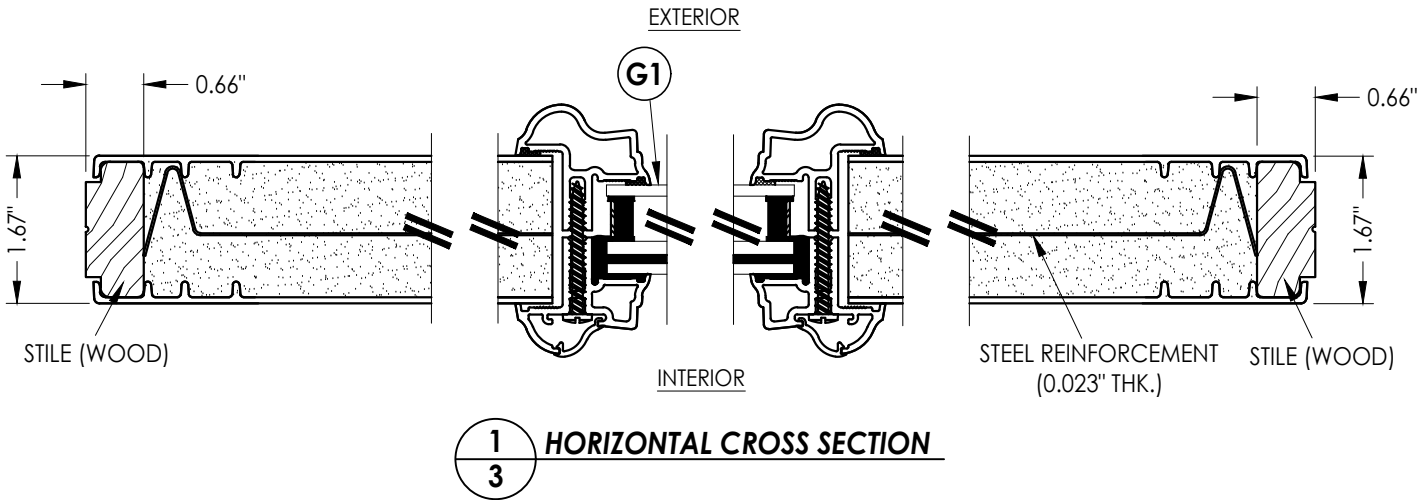
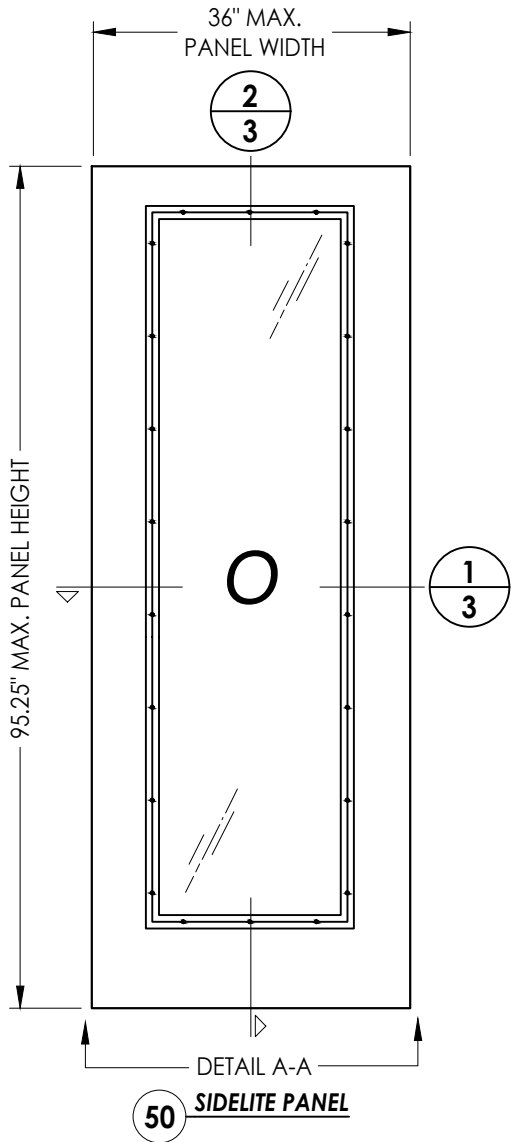
PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

NO.	DATE	REVISIONS			
		DATE	BY	CHK	APP
4	7/25/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	7/22/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
2	4/06/19	ADD 5-1/2\" LATCH/DB SPACING	LFS	JK	
1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC	JK	

DATE: 08/02/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-20470.11
SHEET 2 OF 14

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

Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.10-12.dwg



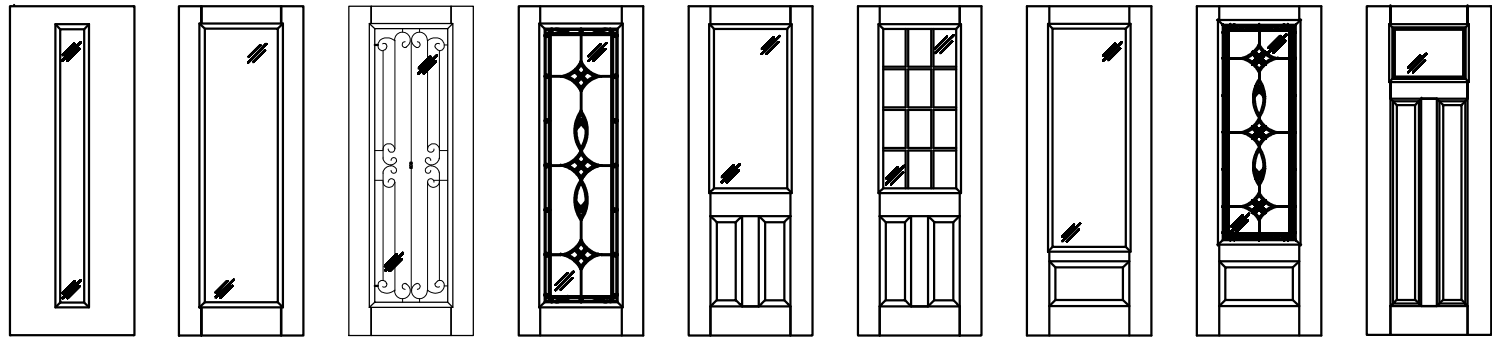
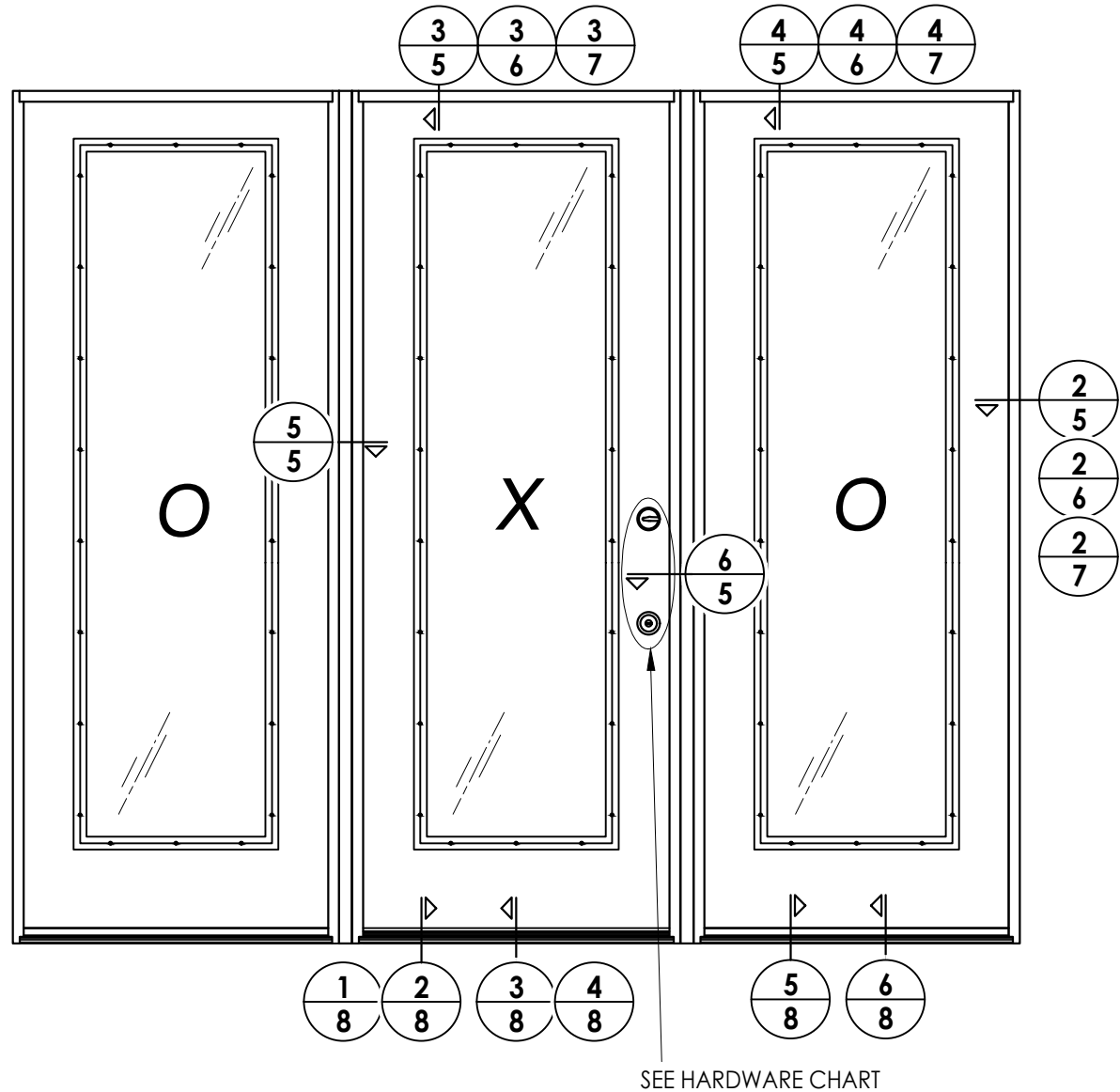
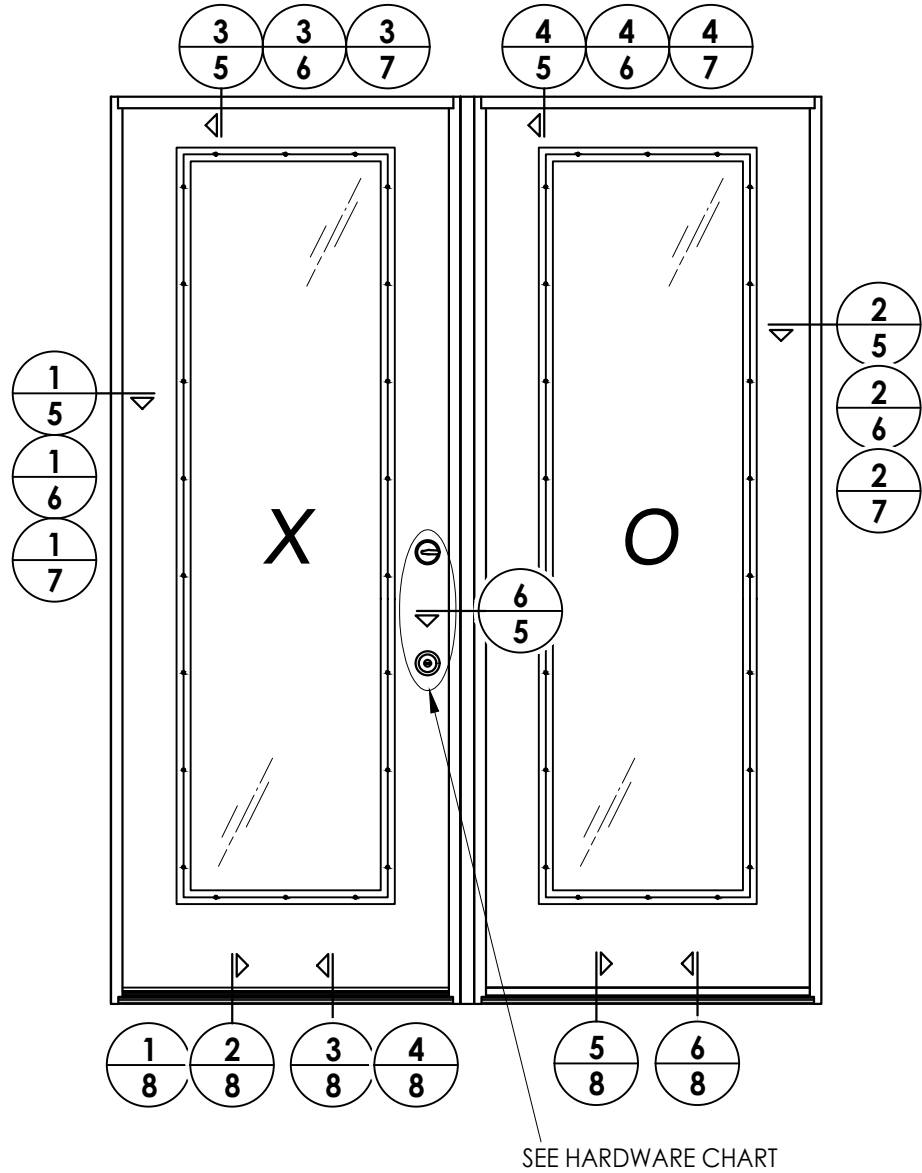
PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		SIDELITE PANEL DETAILS	
DATE:		08/02/16	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-20470.11	
SHEET		3	OF 14

NO.	DATE	REVISIONS
4	7/25/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	7/22/20	UPDATE TO 7TH ED (2020) FBC LFS
2	4/06/19	ADD 5-1/2" LATCH/DB SPACING LFS
1	7/14/17	UPDATE TO 6TH ED. (2017) FBC JK
		BY

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

Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.10-12.dwg



Fiber-Classic/Smooth-Star Door Panel Options
Panel options shown are for illustration and are representative only
(similar glazed panel configurations are allowed)

HARDWARE TABLE		
MANUFACTURER	MODEL	
SCHLAGE	Knob:	F51
	Deadbolt:	B60
KWIKSET	Knob:	SIGNATURE SERIES
	Deadbolt:	SIGNATURE SERIES (980)
HOPPE (THERMA-TRU)	MULTIPOINT : MPDGSB (3 pt. Manual Shootbolt)	

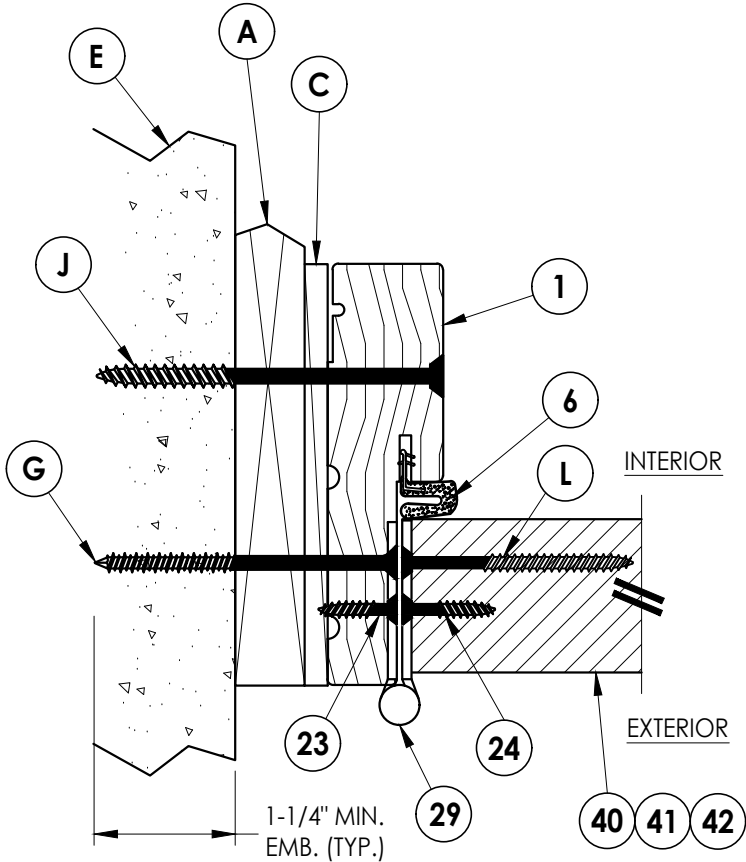
PRODUCT: THERMA-TRU FIBERGLASS DOOR		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
		PART OR ASSEMBLY: ELEVATIONS	
		DATE	NO.
4	7/25/23	UPDATE TO 8TH ED. (2023)	FBC LFS
3	7/22/20	UPDATE TO 7th ED (2020)	FBC LFS
2	4/06/19	ADD 5-1/2" LATCH/DB SPACING	LFS
1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC JK
REVISIONS		DATE	BY
DATE: 08/02/16			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-20470.11			
SHEET 4 OF 14			

© 2016 R.W. BUILDING CONSULTANTS INC.

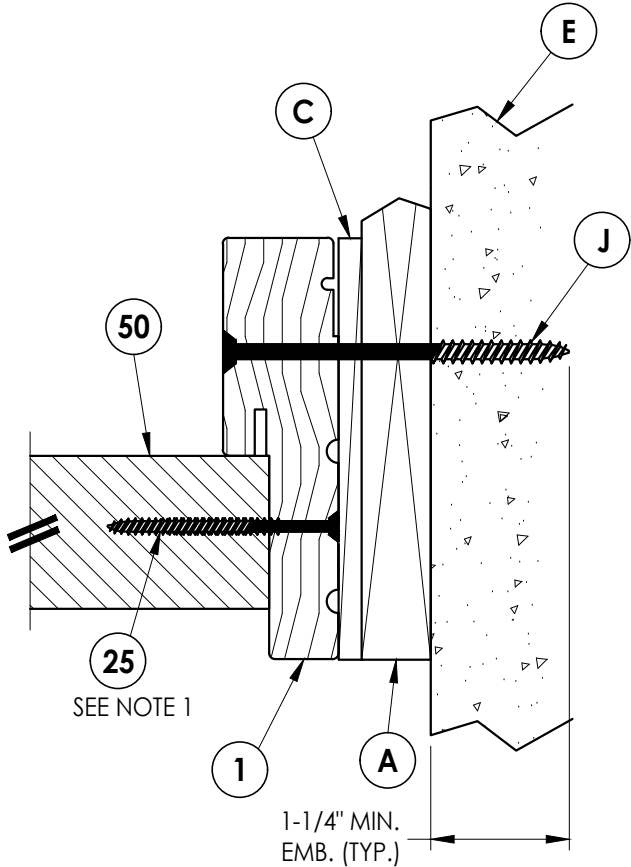
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.10-12.dwg

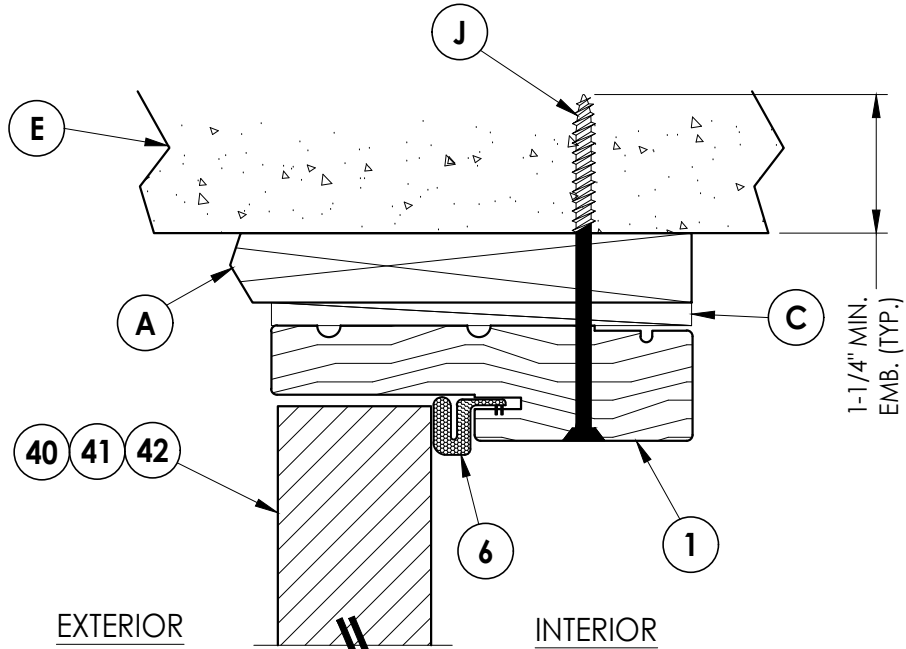
- Notes:
1. Sidelite assembly screws located 6" from each end and 6 more screws equally spaced between (8 screws total per side jamb).
 2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



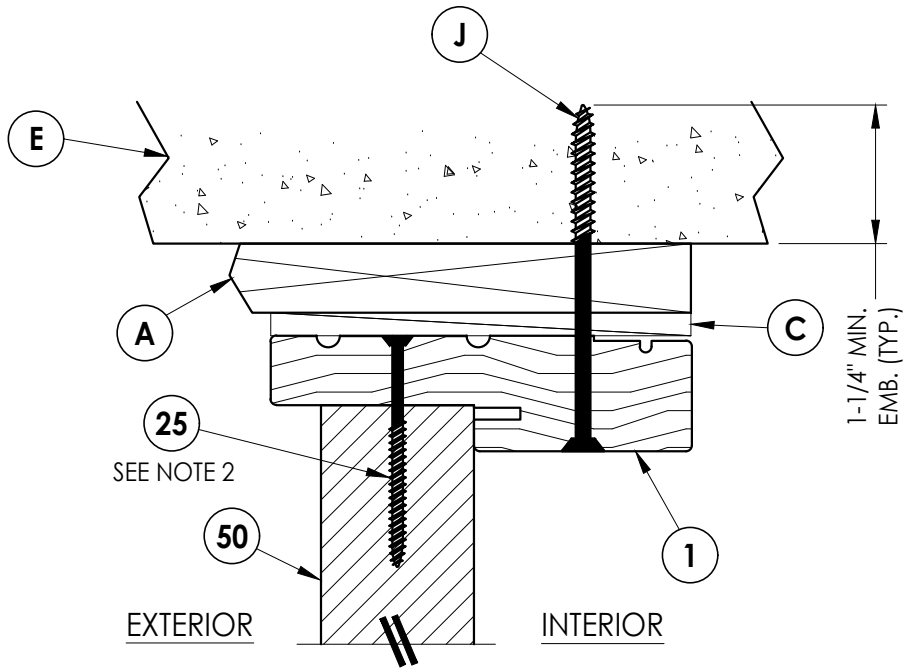
1
6 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



2
6 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



3
6 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



4
6 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

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:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (1X BUCK)

NO.	DATE	REVISIONS	BY
4	7/25/23	UPDATE TO 8TH ED. (2023) FBC	LFS
3	7/22/20	UPDATE TO 7th ED (2020) FBC	LFS
2	4/06/19	ADD 5-1/2" LATCH/DB SPACING	LFS
1	7/14/17	UPDATE TO 6TH ED. (2017) FBC	JK

DATE: 08/02/16

SCALE: N.T.S.

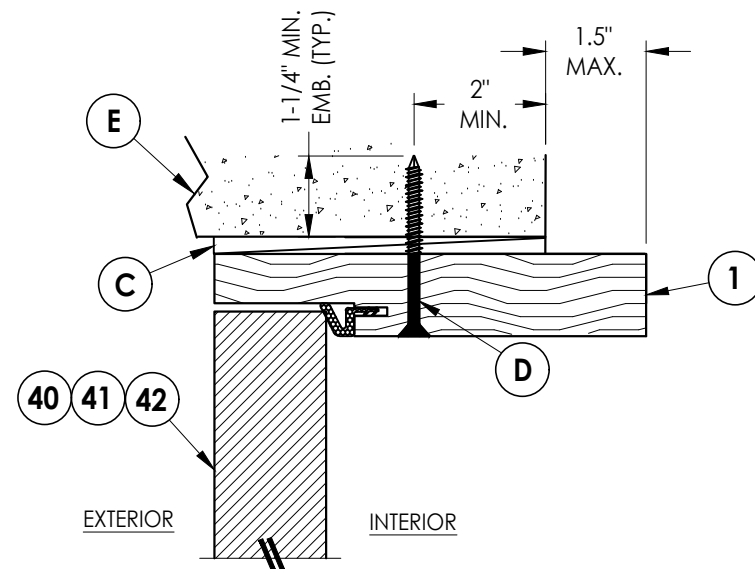
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-20470.11

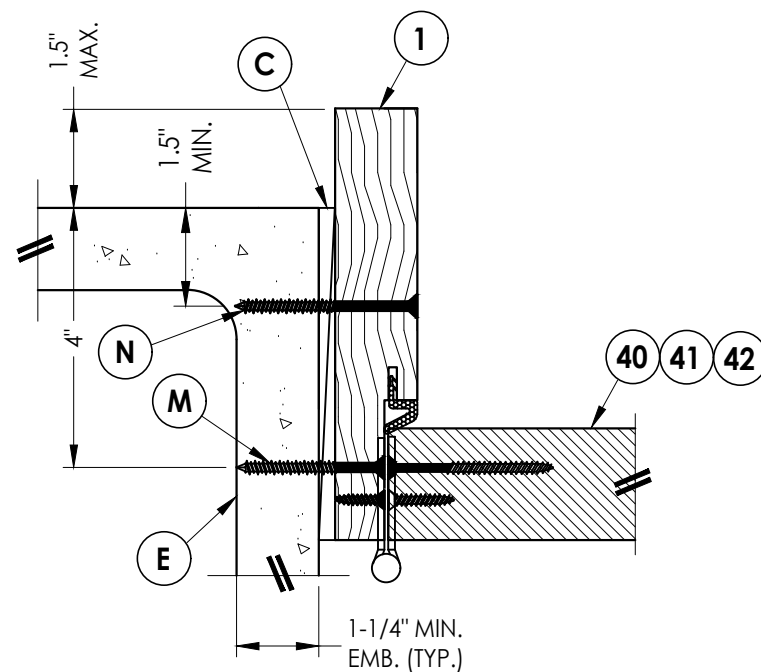
SHEET 6 OF 14



3 **HORIZONTAL CROSS SECTION**
7 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

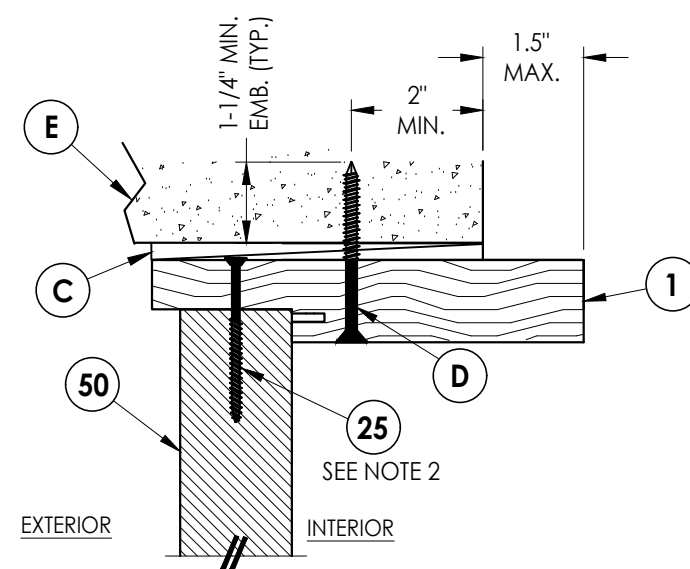
Notes:

1. Sidelite assembly screws located 6" from each end plus 6 more equally spaced between (8 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).

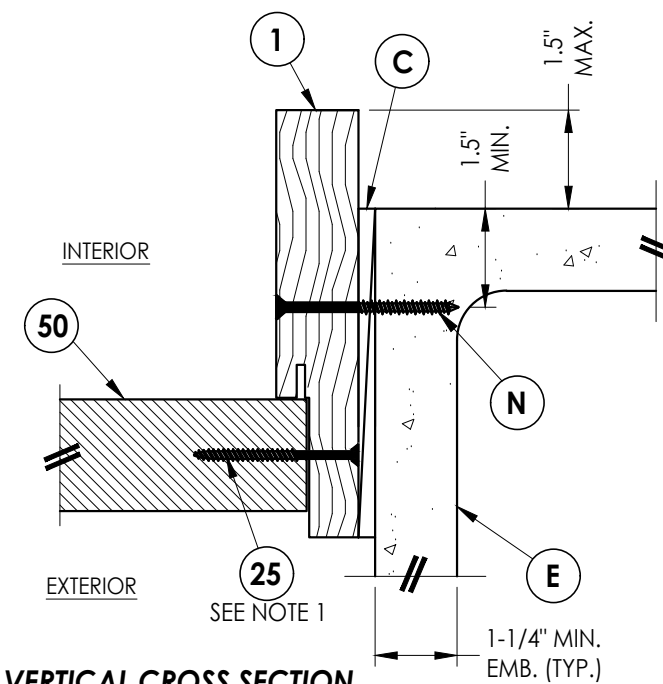


1 7 **HORIZONTAL CROSS SECTION**

Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



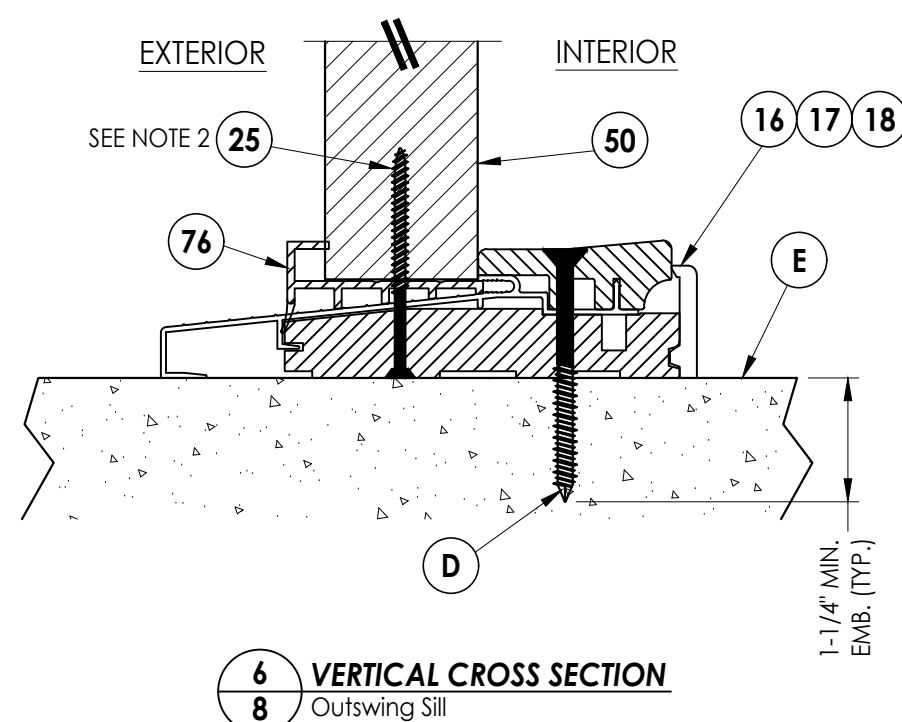
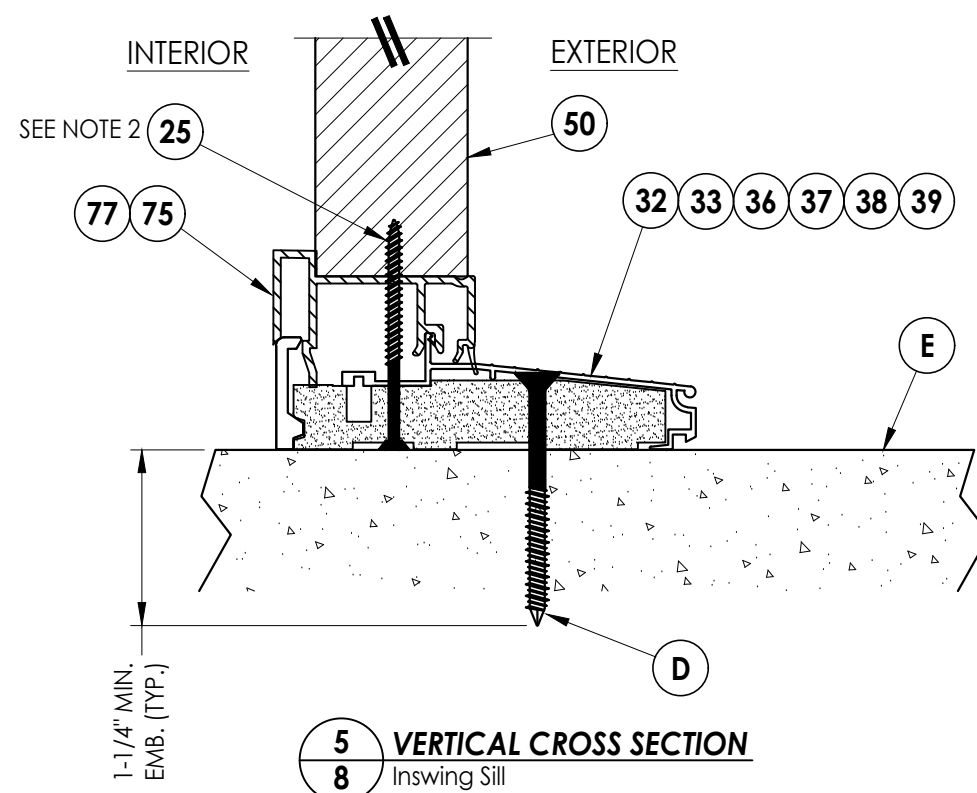
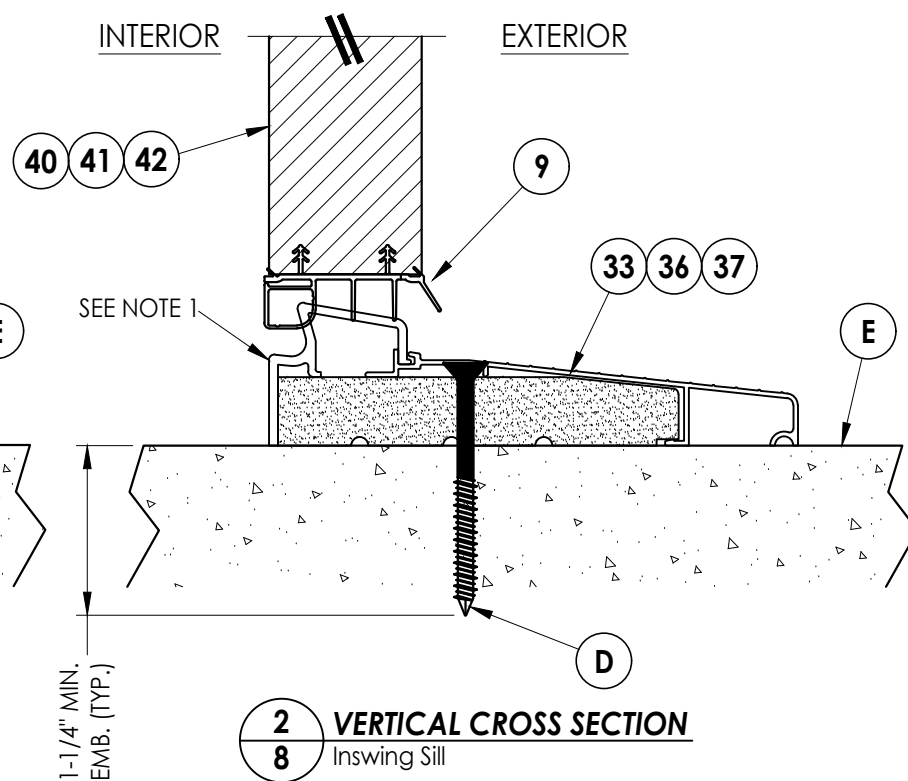
4 **VERTICAL CROSS SECTION**
7 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb



2 **VERTICAL CROSS SECTION**
7 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb

DATE: 8/02/16												Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
SCALE: N.T.S.												BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
DWG. BY: JK													
CHK. BY: LFS													
DRAWING NO.: FL-20470.11													
SHEET 7 OF 14													

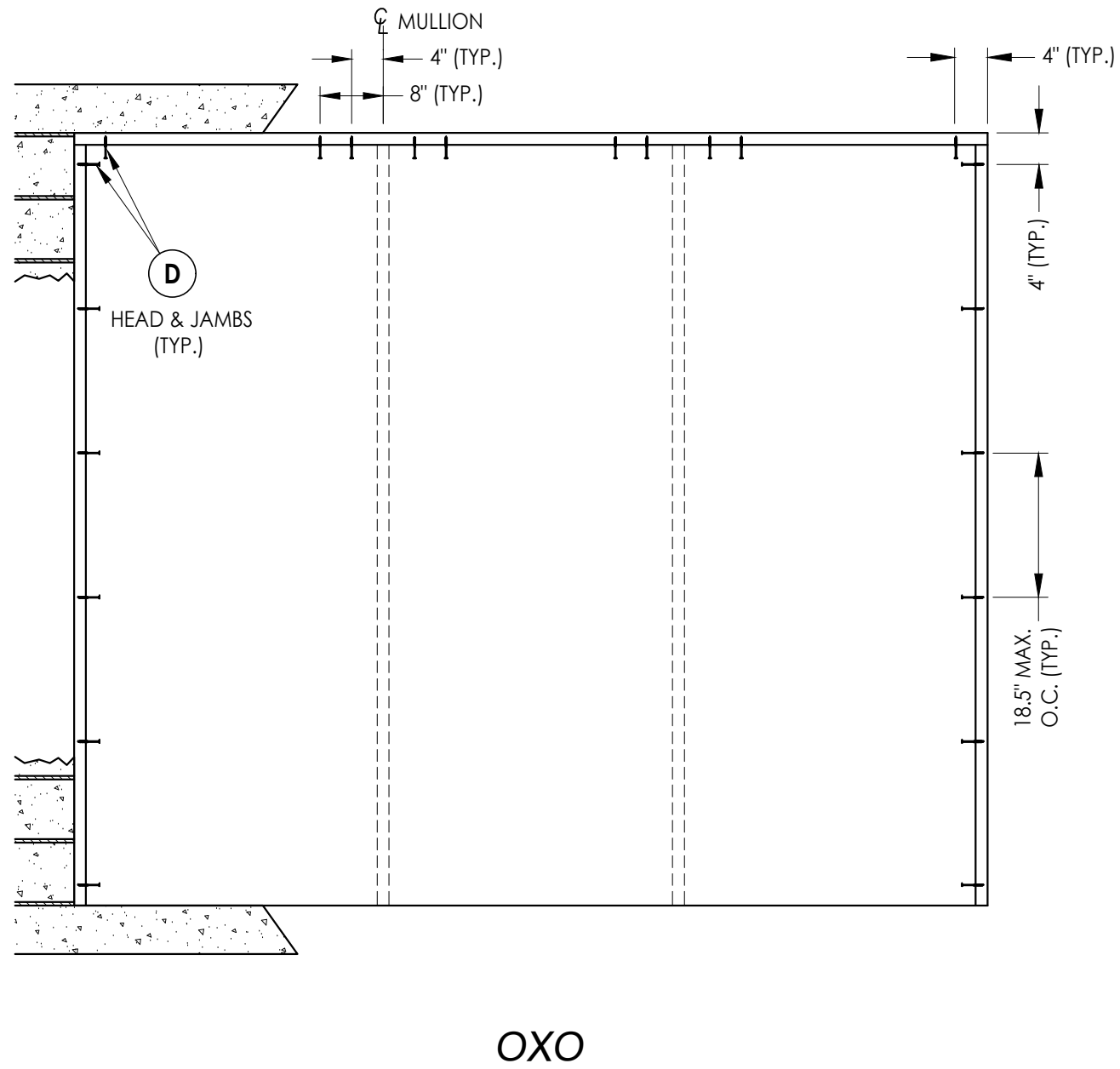
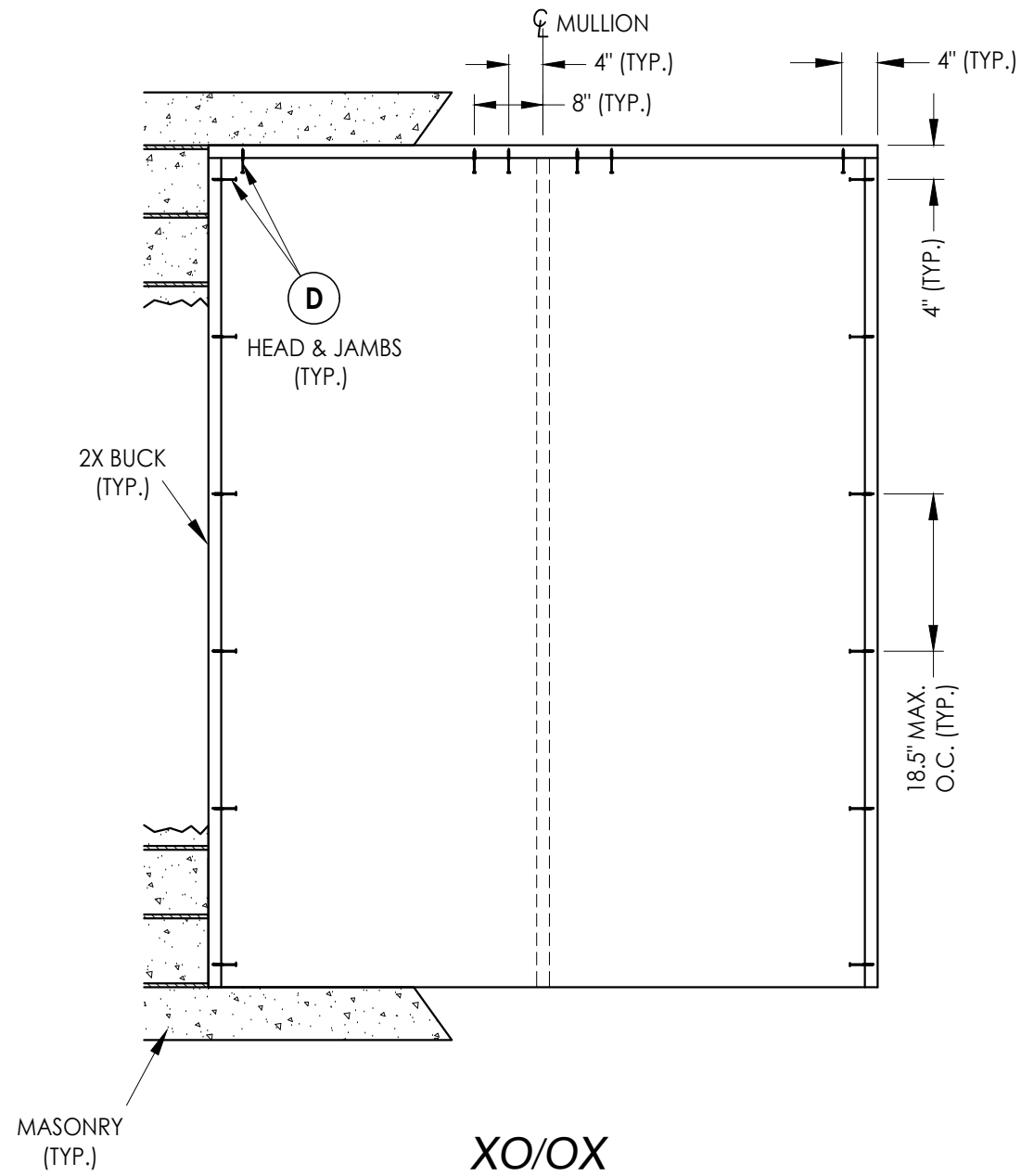
1. Sill Item #'s 16, 32, 33, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pph screws at each end.
Sill Item #'s 17, 18 & 19 are attached to jambs w/ (2) #8 X 2-1/2" pph screws at each end.
Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS at each end.
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along sill).

[illegible]

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

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

© 2016 R.W. BUILDING CONSULTANTS INC.



2X BUCK ANCHORING

4	7/25/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	7/22/20	UPDATE TO 7th ED (2020)	FBC	LFS	
2	4/06/19	ADD 5-1/2" LATCH/DB SPACING		LFS	
1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC	JK	
NO.	DATE				BY
					REVISIONS

DATE: 08/02/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-20470.11

SHEET 9 OF 14

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

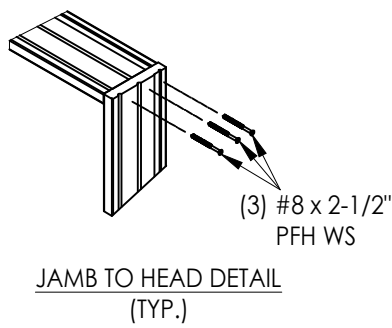
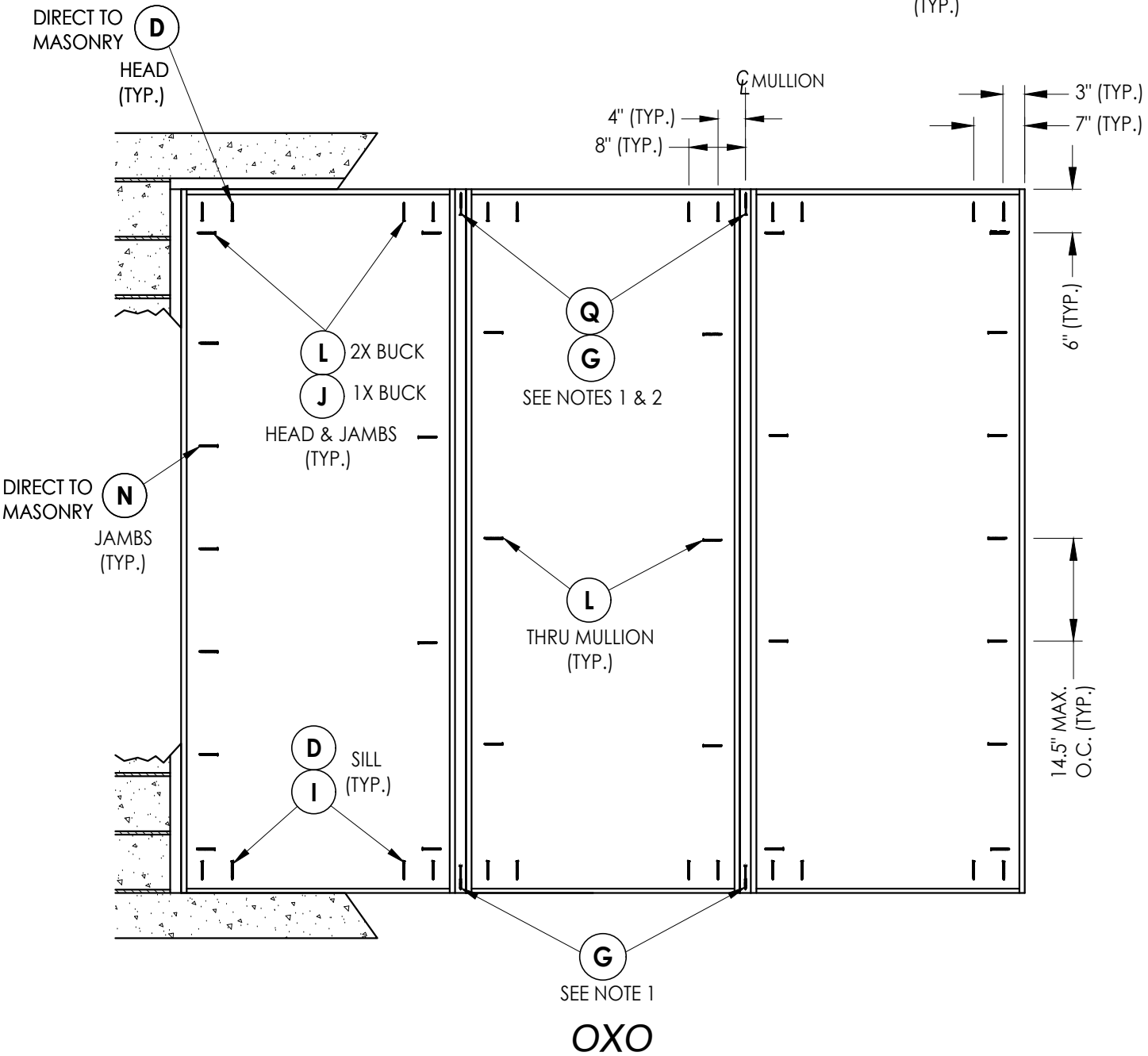
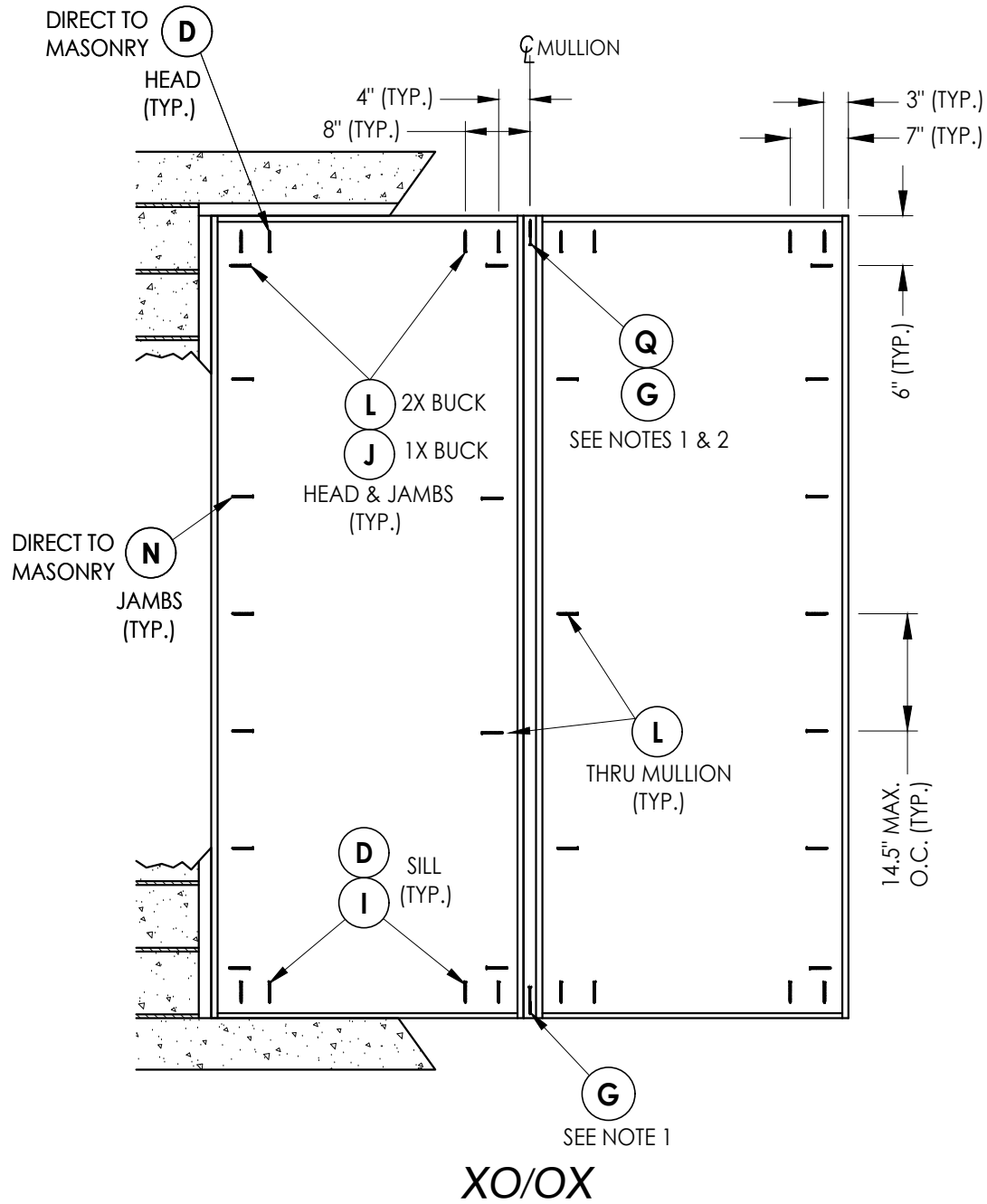
PRODUCT: THERMA-TRU
FIBERGLASS DOOR

ASSEMBLY:
BUCK ANCHORING

'2" LATCH/D
 6TH ED. (C
 REVISIONS

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

Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.10-12.dwg



- NOTES:
- 3/16" x 3-1/4" ITW concrete screw toe-nailed through mullion into masonry (each face).
 - #10 X 3" wood screw toe-nailed through mullion into 2X Buck (each face).

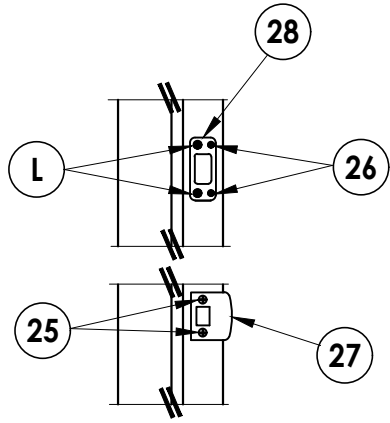
FRAME ANCHORING

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		THERMA-TRU FIBERGLASS DOOR	
		PART OR ASSEMBLY: FRAME ANCHORING	
4 3 2 1	7/25/23 7/22/20 4/06/19 7/14/17	UPDATE TO 8TH ED. (2023) FBC UPDATE TO 7th ED (2020) FBC ADD 5-1/2" LATCH/DB SPACING UPDATE TO 6TH ED. (2017) FBC	LFS LFS LFS JK
	NO.	DATE	BY
	REVISIONS		
	DATE: 08/02/16		
	SCALE: N.T.S.		
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-20470.11			
SHEET 10 OF 14			

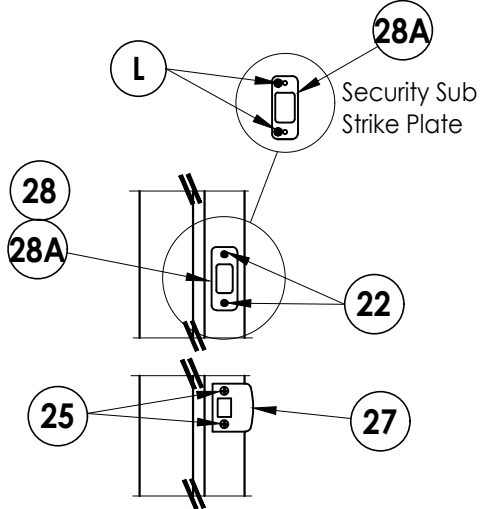
© 2016 R.W. BUILDING CONSULTANTS INC.

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

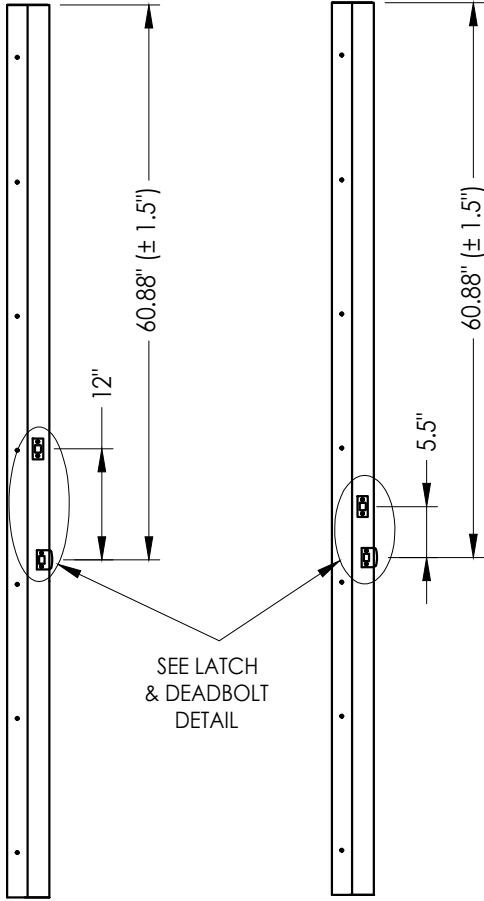
Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.10-12.dwg



LATCH & DEADBOLT DETAIL
Kwikset

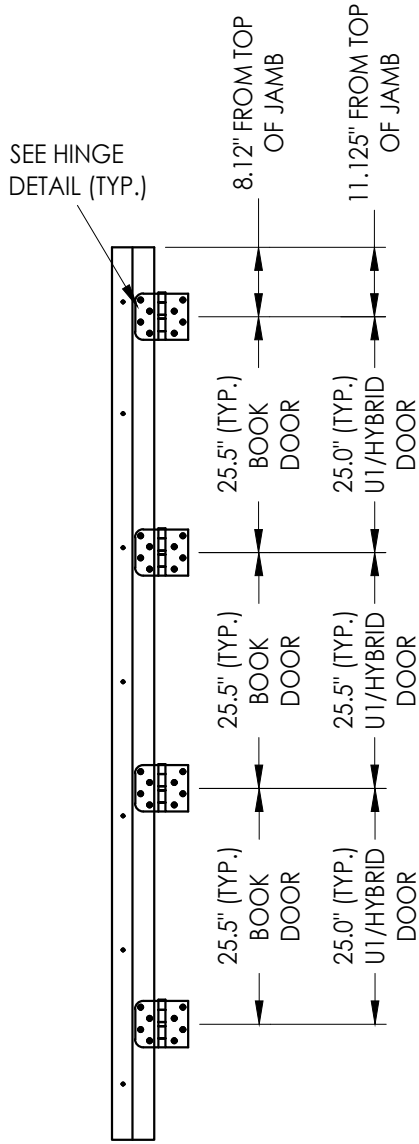


LATCH & DEADBOLT DETAIL
Schlage

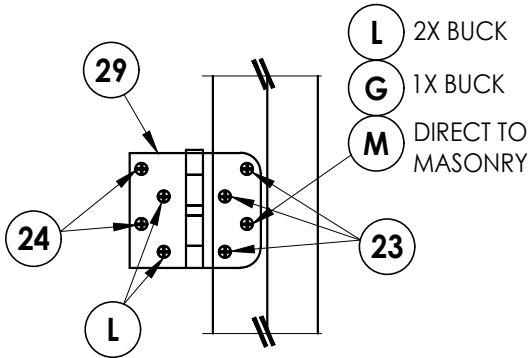


STRIKE JAMB
Latch & Deadbolt
(12" o.c. spacing)

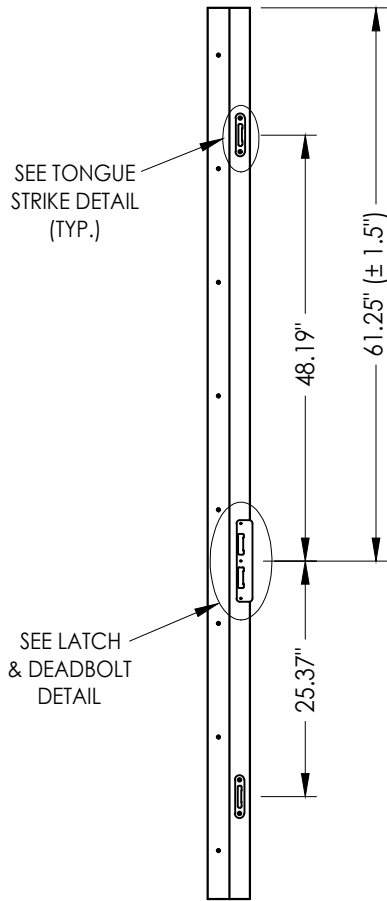
STRIKE JAMB
Latch & Deadbolt
(5-1/2" o.c. spacing)



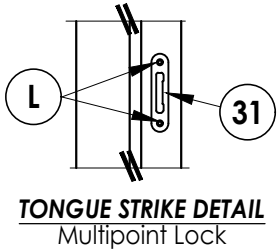
HINGE JAMB



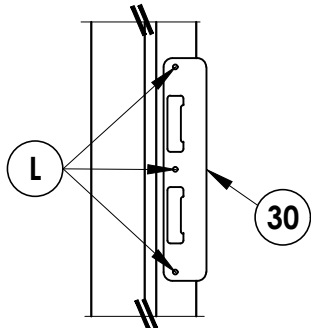
HINGE DETAIL



STRIKE JAMB
Multipoint Lock



TONGUE STRIKE DETAIL
Multipoint Lock



LATCH & DEADBOLT DETAIL
Multipoint Lock

MULTIPOINT LOCK STRIKE DETAILS

LATCH & DEADBOLT STRIKE DETAILS

DATE		NO.		DATE		BY		REVISIONS	
4	7/25/23	UPDATE TO 8TH ED. (2023)	FBC	LFS					
3	7/22/20	UPDATE TO 7th ED. (2020)	FBC	LFS					
2	4/06/19	ADD 5-1/2" LATCH/DB SPACING							
1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC	JK					
DATE		NO.		BY		REVISIONS			

DATE: 08/02/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-20470.11

SHEET 11 OF 14

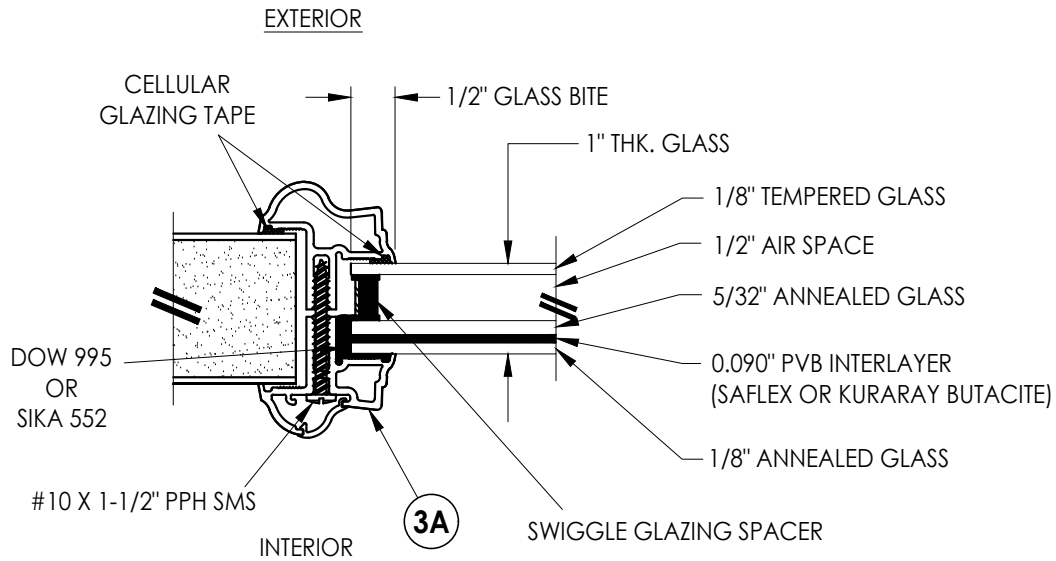
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

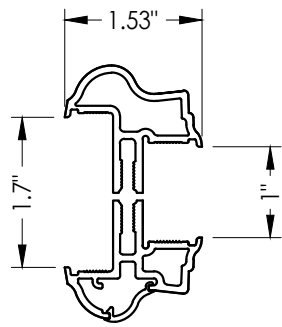
PART OR ASSEMBLY:
HARDWARE DETAILS

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

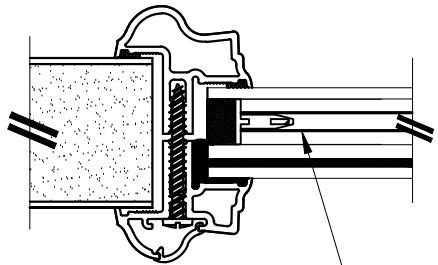
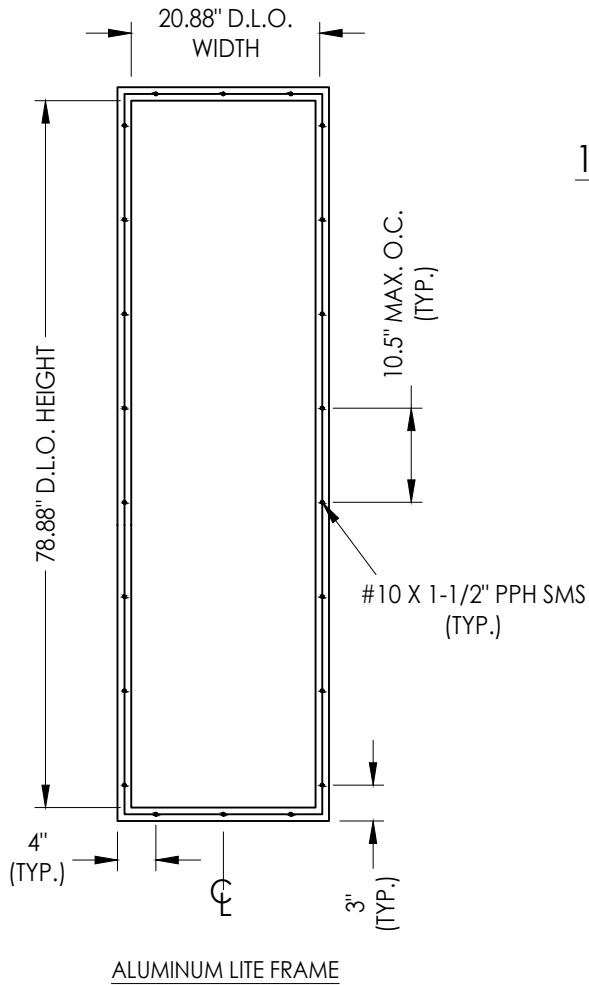
Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.10-12.dwg



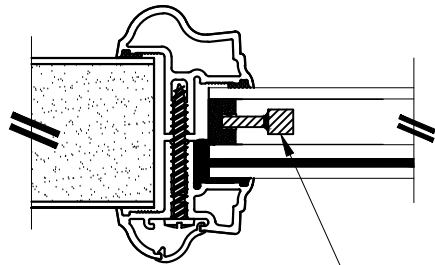
G1 GLAZING DETAIL
Aluminum Impact Lite Frame
Door Panels & Sidelites



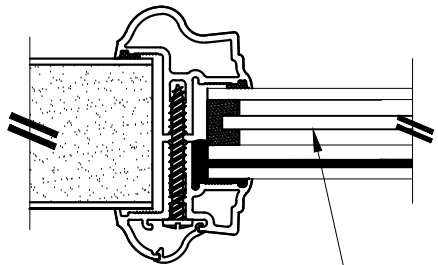
3A ALUMINUM FRAME
Aluminum Impact Lite Frame
Door Panels & Sidelites



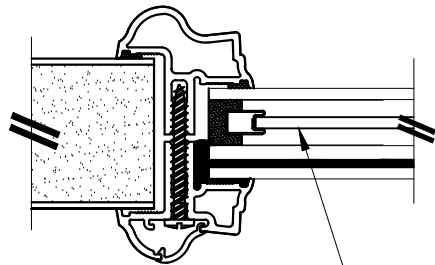
INTERNAL GRID (GBG)



WROUGHT IRON INSERT



PRIVACY INSERT



DECORATIVE INSERT

1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS

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:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

GLAZING DETAILS

NO.	DATE	REVISIONS			
		DATE	BY	CHK	LFS
4	7/25/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	7/22/20	UPDATE TO 7th ED (2020)	FBC	LFS	
2	4/06/19	ADD 5-1/2" LATCH/DB SPACING	LFS		
1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC	JK	

DATE: 8/02/16

SCALE: N.T.S.

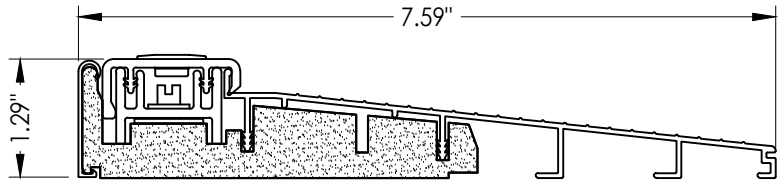
DWG. BY: JK

CHK. BY: LFS

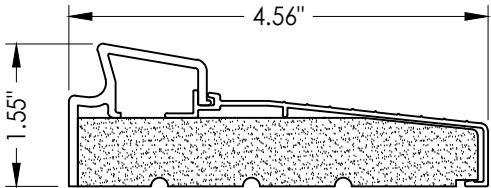
DRAWING NO.:
FL-20470.11

SHEET 12 OF 14

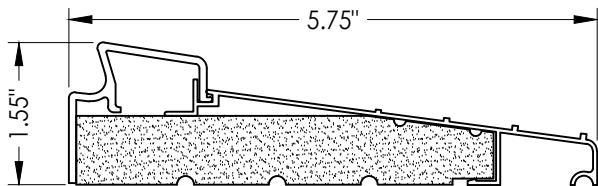
Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.10-12.dwg



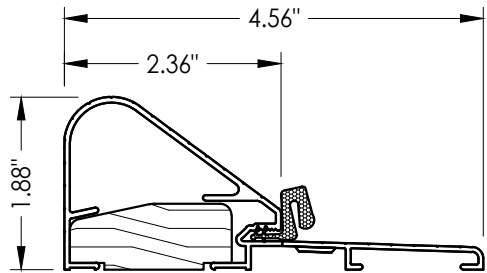
32 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill 7-1/2"



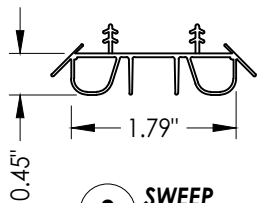
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



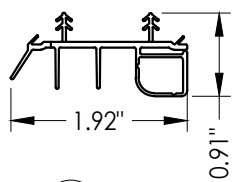
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



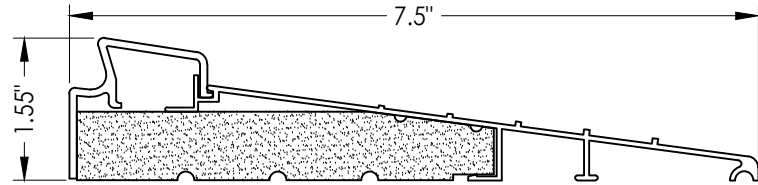
19 COASTAL OUTSWING THRESHOLD
Wood / Aluminum Sill



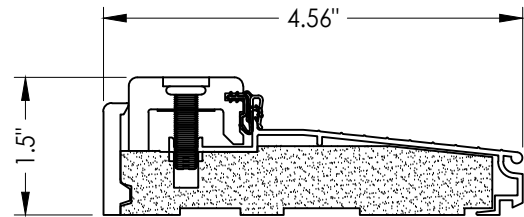
8 SWEEP



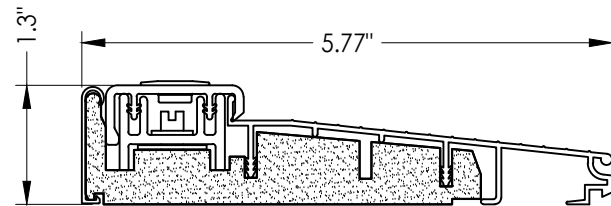
9 SWEEP



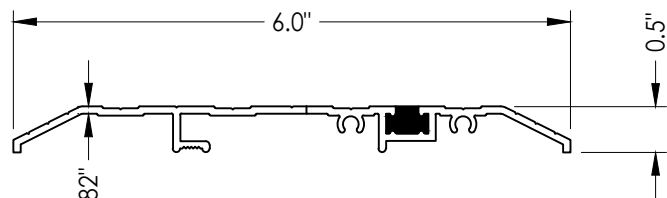
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



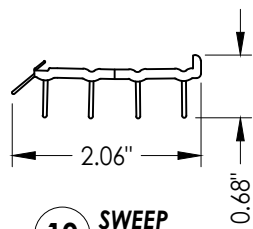
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



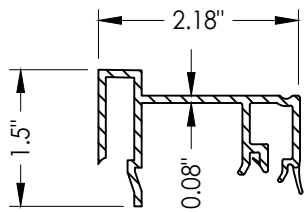
39 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill



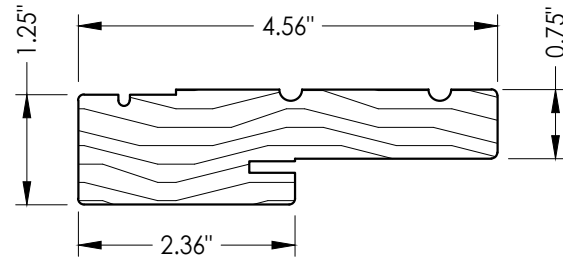
15 PUBLIC ACCESS THRESHOLD



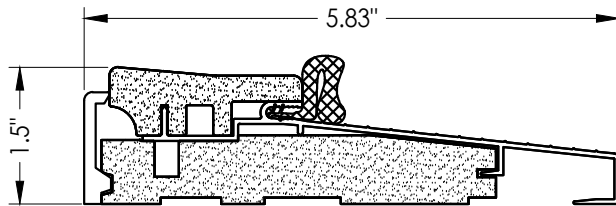
10 SWEEP



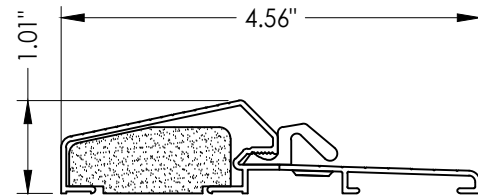
75 SIDELITE SPACER
Inswing



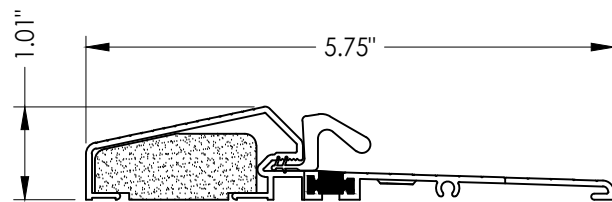
1 WOOD JAMB



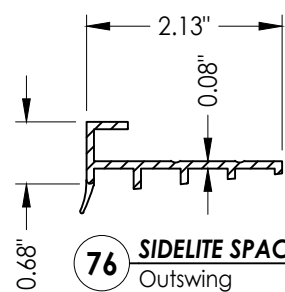
16 OUTSWING THRESHOLD
Composite Sill



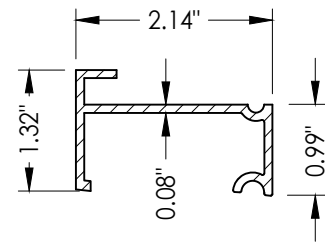
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



76 SIDELITE SPACER
Outswing



77 SIDELITE SPACER
Inswing
Moderate Climate Threshold

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:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

COMPONENTS

NO.	DATE	REVISIONS			
		BY	JK	LFS	LFS
4	7/25/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	7/22/20	UPDATE TO 7th ED (2020)	FBC	LFS	
2	4/06/19	ADD 5-1/2" LATCH/DB SPACING	FBC	LFS	
1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC	JK	

DATE: 08/02/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-20470.11
SHEET 13 OF 14

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
25	#8 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 (TONGUE SYSTEM)	ALUM/COMP
31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
32	INSWING THRESHOLD	ALUM/COMP
33	INSWING THRESHOLD	ALUM/COMP
36	INSWING THRESHOLD	ALUM/COMP
37	INSWING THRESHOLD	ALUM/COMP
38	INSWING THRESHOLD	ALUM/COMP
39	INSWING THRESHOLD	ALUM/COMP
40	DOOR PANEL (BOOK)	-
41	DOOR PANEL (HYBRID)	-
42	DOOR PANEL (U1)	-
50	SIDELITE (FULL LITE)	-
75	SIDELITE SPACER (INSWING)	PVC
76	SIDELITE SPACER (OUTSWING)	PVC
77	SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL	PVC
88	2X MULLION (SG >= 0.55)	WOOD

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"
DeWALT ULTRA CON+®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	AS SHOWN	1-1/2"

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

© 2016 R.W. BUILDING CONSULTANTS INC.