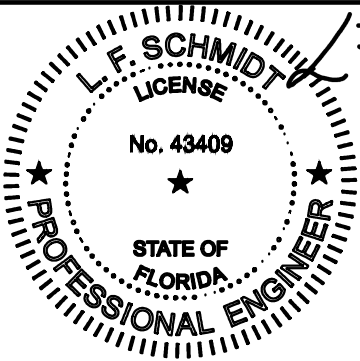


WOOD EDGE
OPAQUE STEEL SINGLE DOOR
w/ SIDELITE(S)
INSWING/OUTSWING
"IMPACT"

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. Outswing configurations using Sill numbers 16,17,18 & 31 meet the water infiltration requirements for the "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.

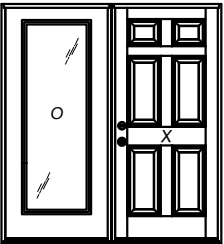
TABLE OF CONTENTS			
SHEET #	DESCRIPTION	SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes	10	Vertical Cross Sections (Thresholds)
2	Door Panel Details "Profiles"	11	Buck Anchoring
3	Door Panel Details "Traditions"	12	Frame Anchoring
4	Sidelite Panel Details	13	Frame Anchoring
5	Elevations	14	Hardware Details
6	Horizontal Cross Sections	15	Glazing Details
7	Horizontal & Vertical Cross Sections (2X Buck)	16	Components
8	Horizontal & Vertical Cross Sections (1X Buck)	17	Bill of Materials
9	Horizontal & Vertical Cross Sections (Direct to Masonry)		



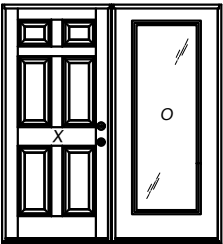
Digitally signed by Lyndon F Schmidt
Date: 2023.08.17 15:36:09 -04'00'

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.

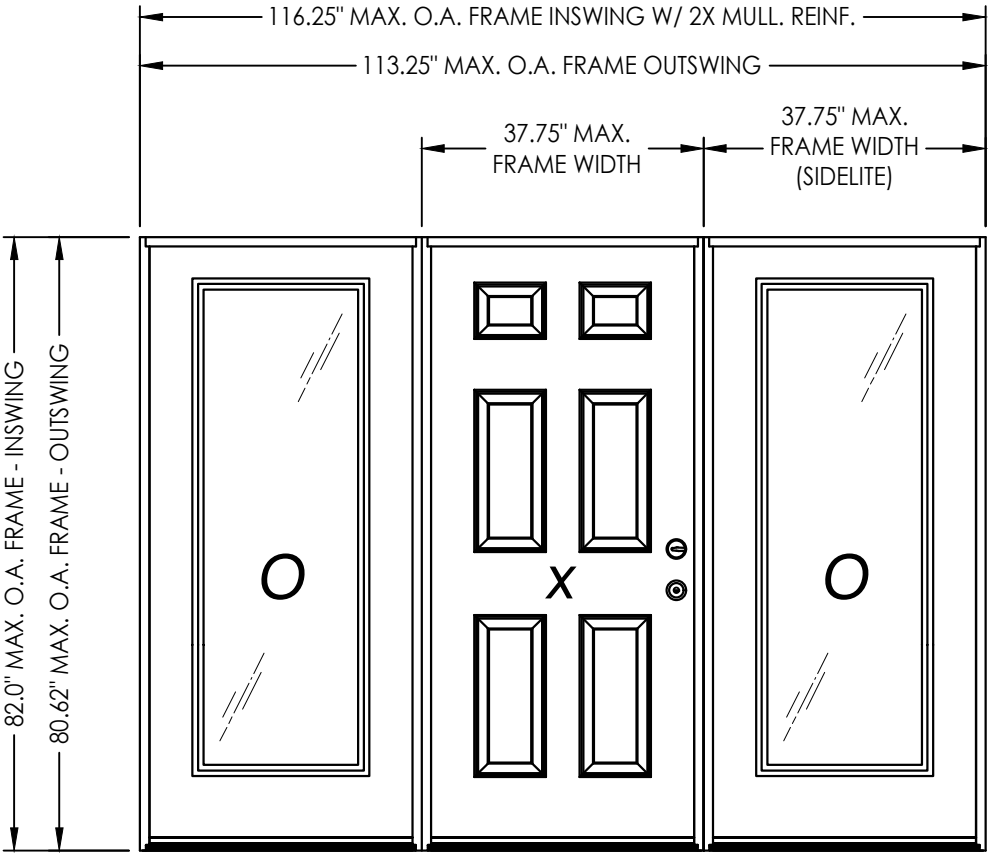
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA



OX



XO



OXO

CONFIGURATION	SWING	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
XO, OX	INSWING	76.50" x 82.0"	+47.0	-53.0
XO, OX	OUTSWING	75.0" x 80.62"	+47.0	-53.0
OXO	INSWING	116.25" x 82.0"	+50.0	-50.0
OXO	OUTSWING	113.25" x 80.62"	+50.0	-50.0

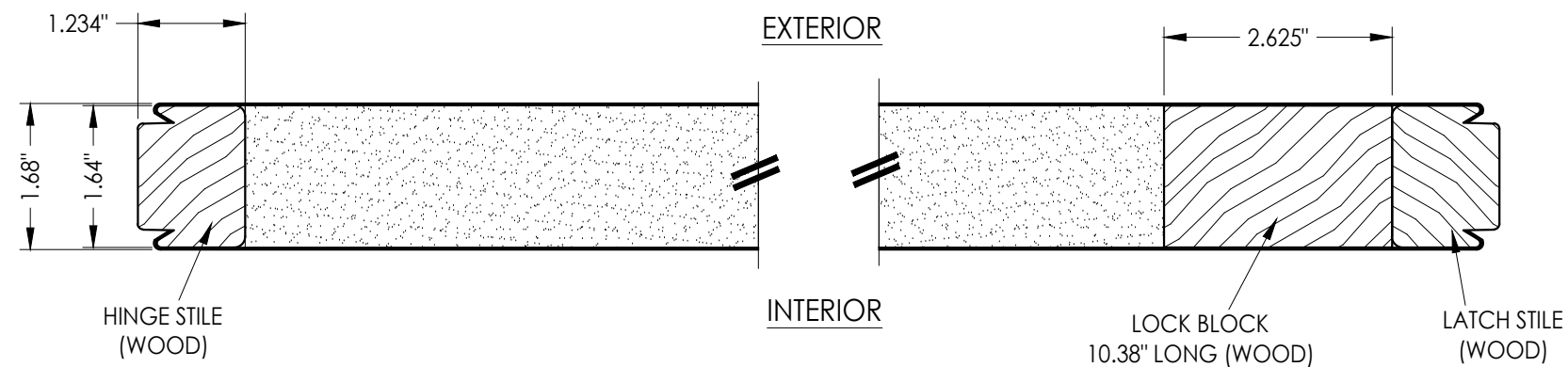
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

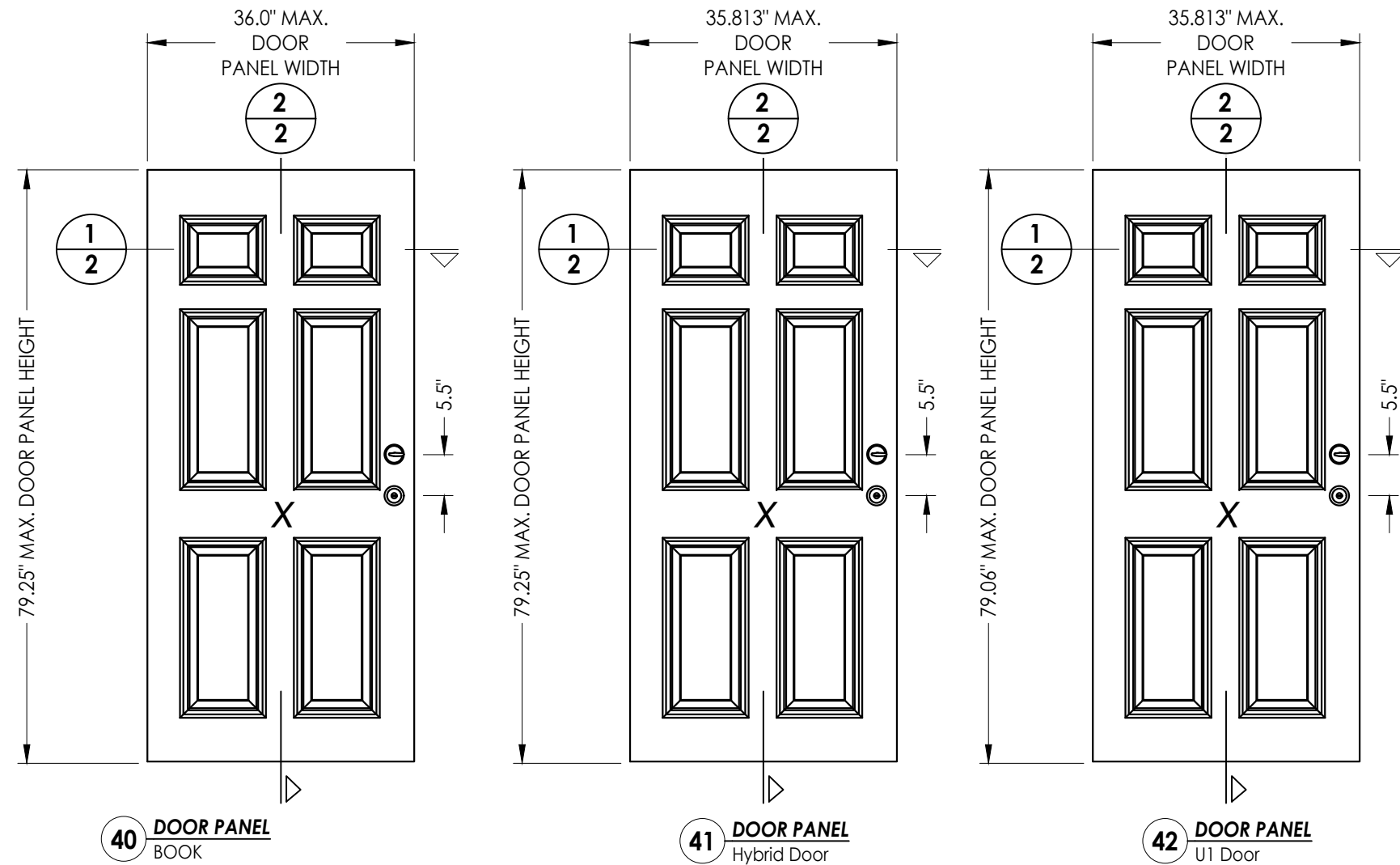
PRODUCT: THERMA-TRU
STEEL DOOR
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

						REVISIONS	
						NO.	DATE
						2	8/17/23
						1	7/15/20

DATE: 10/11/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-23507.2
SHEET 1 OF 17

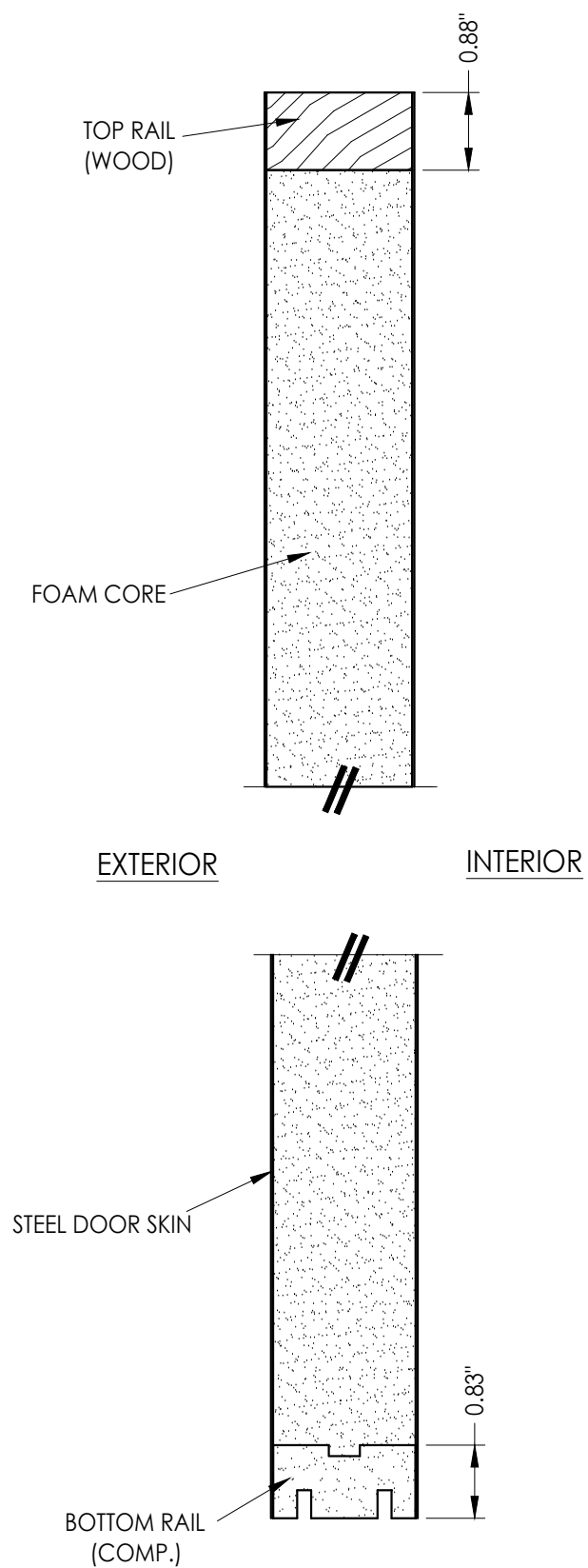


1 HORIZONTAL CROSS SECTION



"PROFILES" SERIES DOOR PANEL

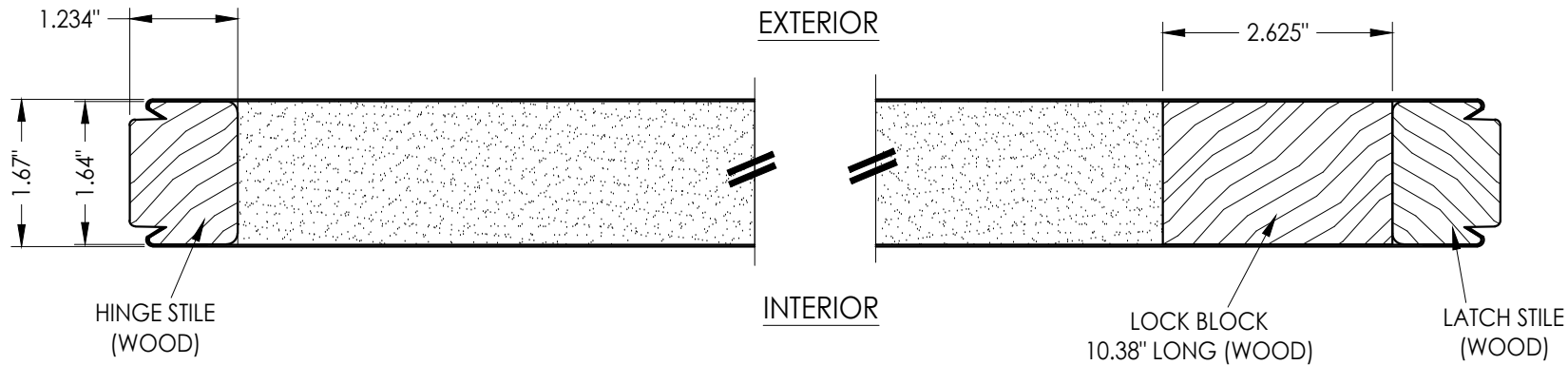
STEEL DOOR SKIN: 24 GA. (0.022" MIN. THICKNESS, $F_y = 48,470$ PSI MIN.)
FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)



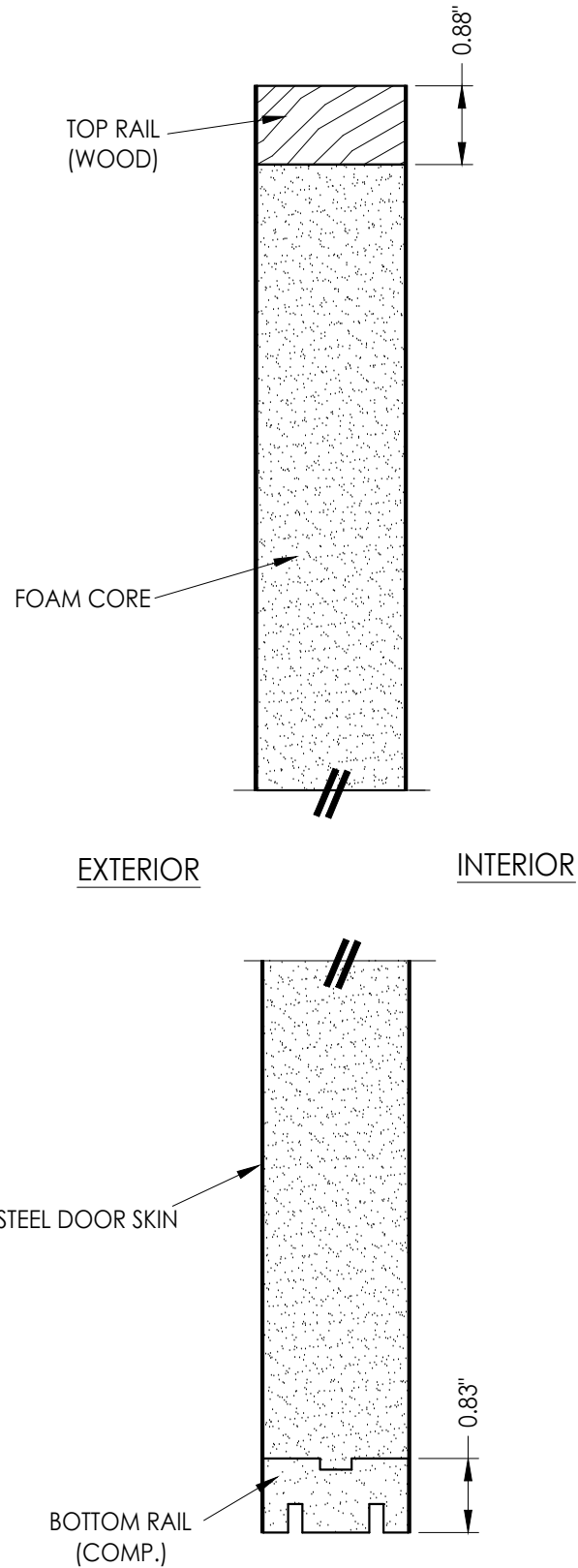
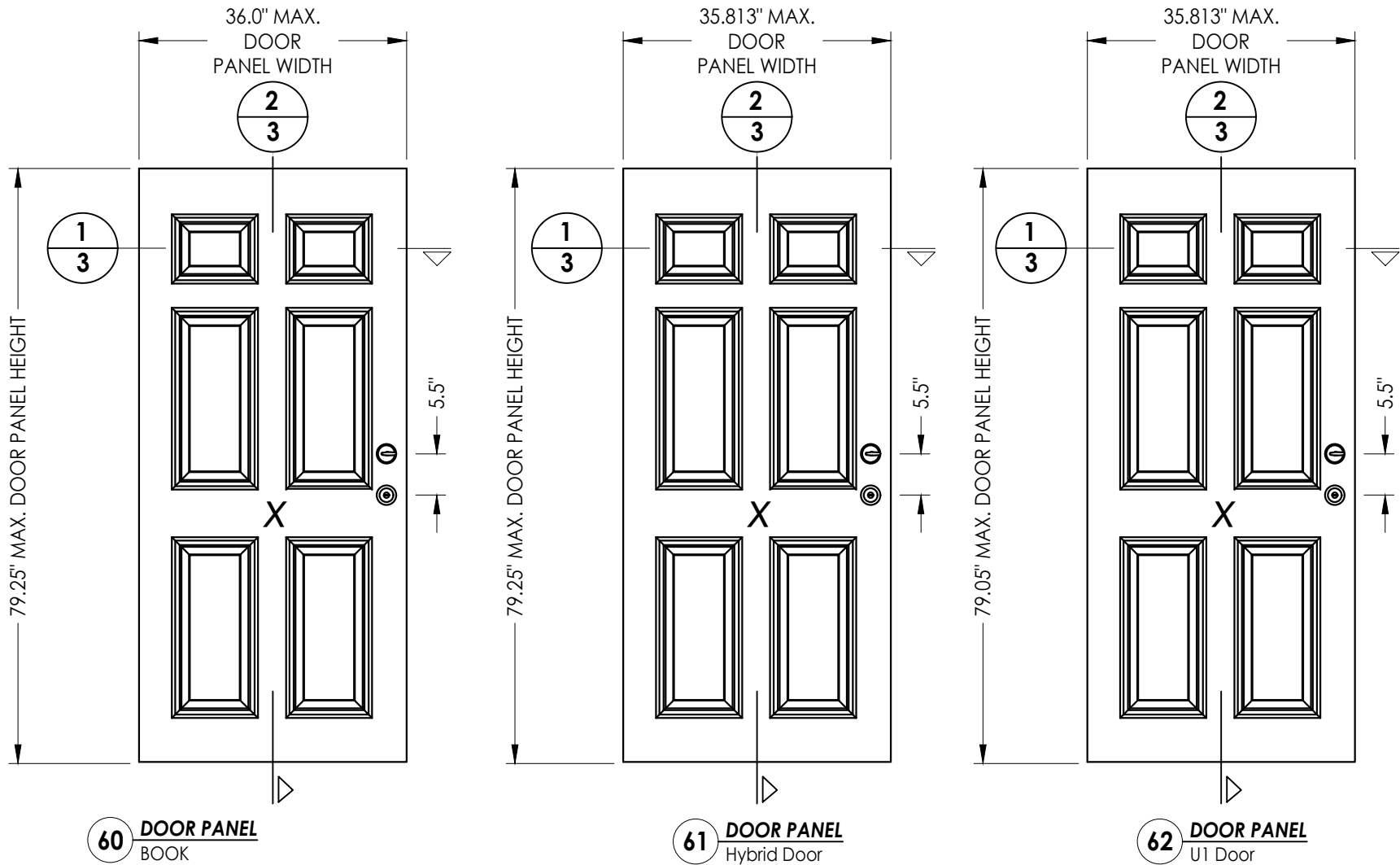
2 VERTICAL CROSS SECTION
2

[illegible]

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1
3 **HORIZONTAL CROSS SECTION**



2
3 **VERTICAL CROSS SECTION**

"TRADITIONS" SERIES DOOR PANEL

STEEL DOOR SKIN: 25 GA. (0.018" MIN. THICKNESS, Fy = 27,830 PSI MIN.)
FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)

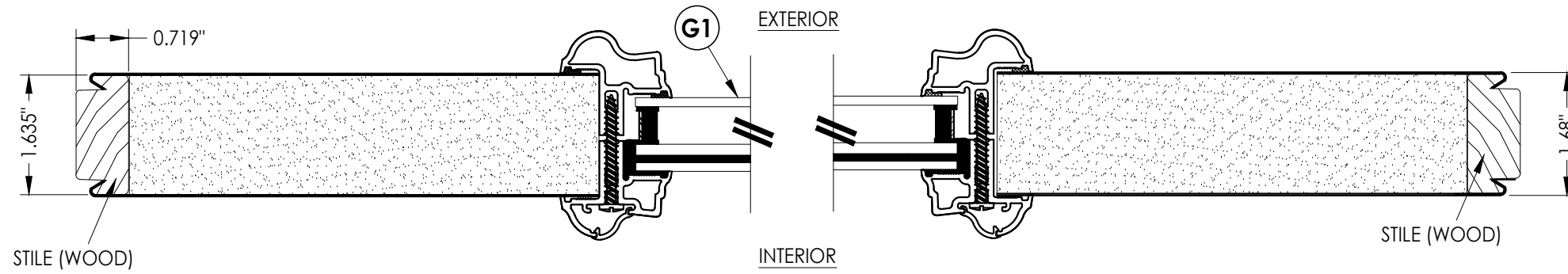
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

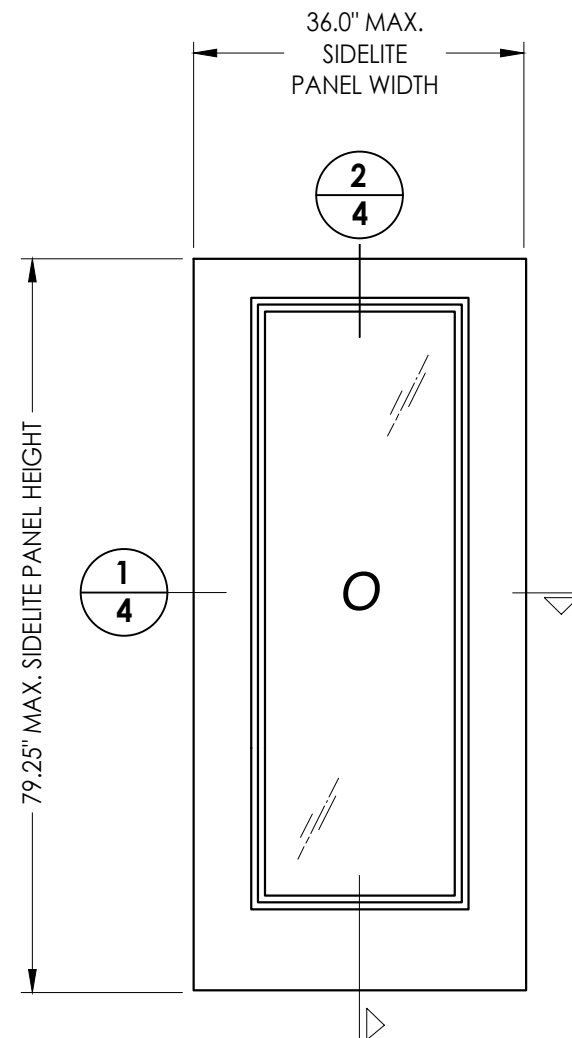
PRODUCT: **THERMA-TRU STEEL DOOR**
PART OR ASSEMBLY: **"TRADITIONS" DOOR PANEL DETAILS**

NO.	DATE	REVISIONS
2	8/17/23	UPDATE TO 8TH ED. (2023) FBC
1	7/15/20	UPDATE TO 7th ED (2020) FBC

DATE: 10/11/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-23507.2
SHEET 3 OF 17



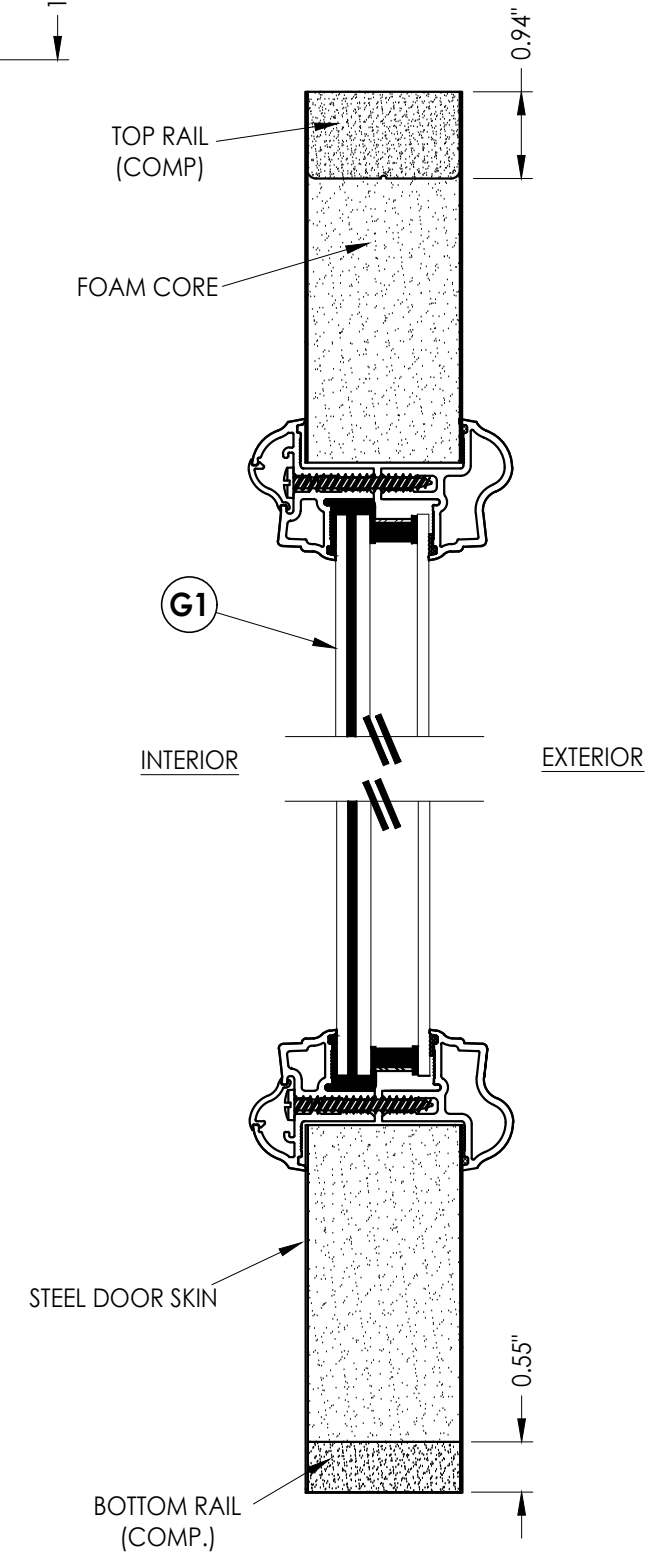
1 **HORIZONTAL CROSS SECTION**



50 SIDELITE PANEL

SIDELITE PANEL

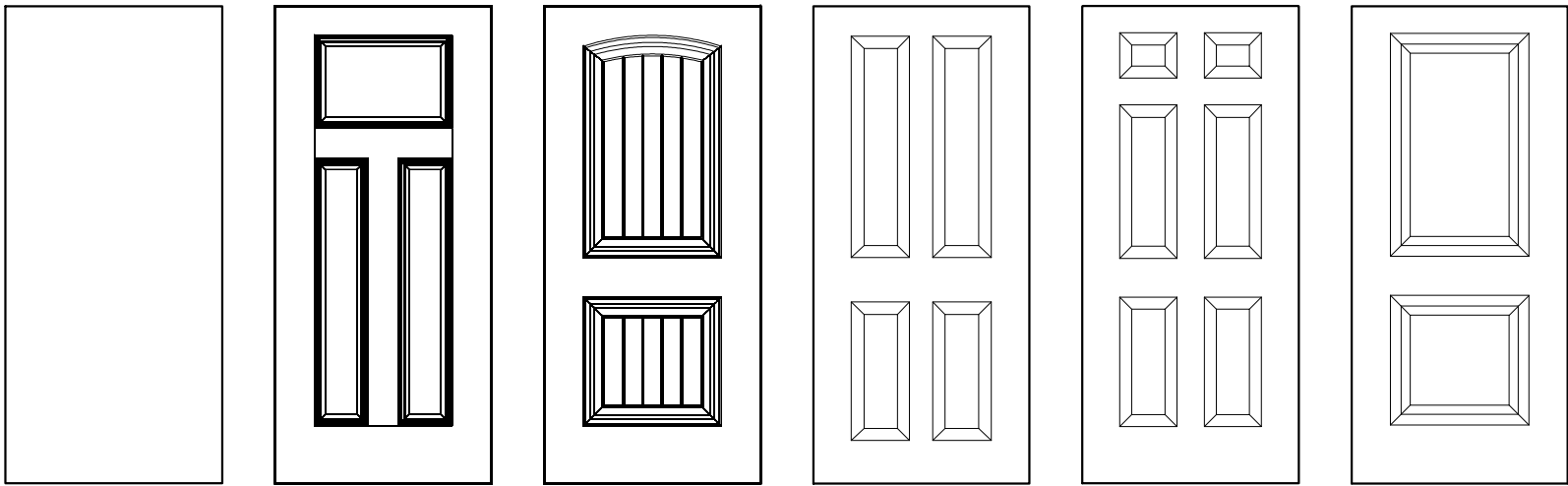
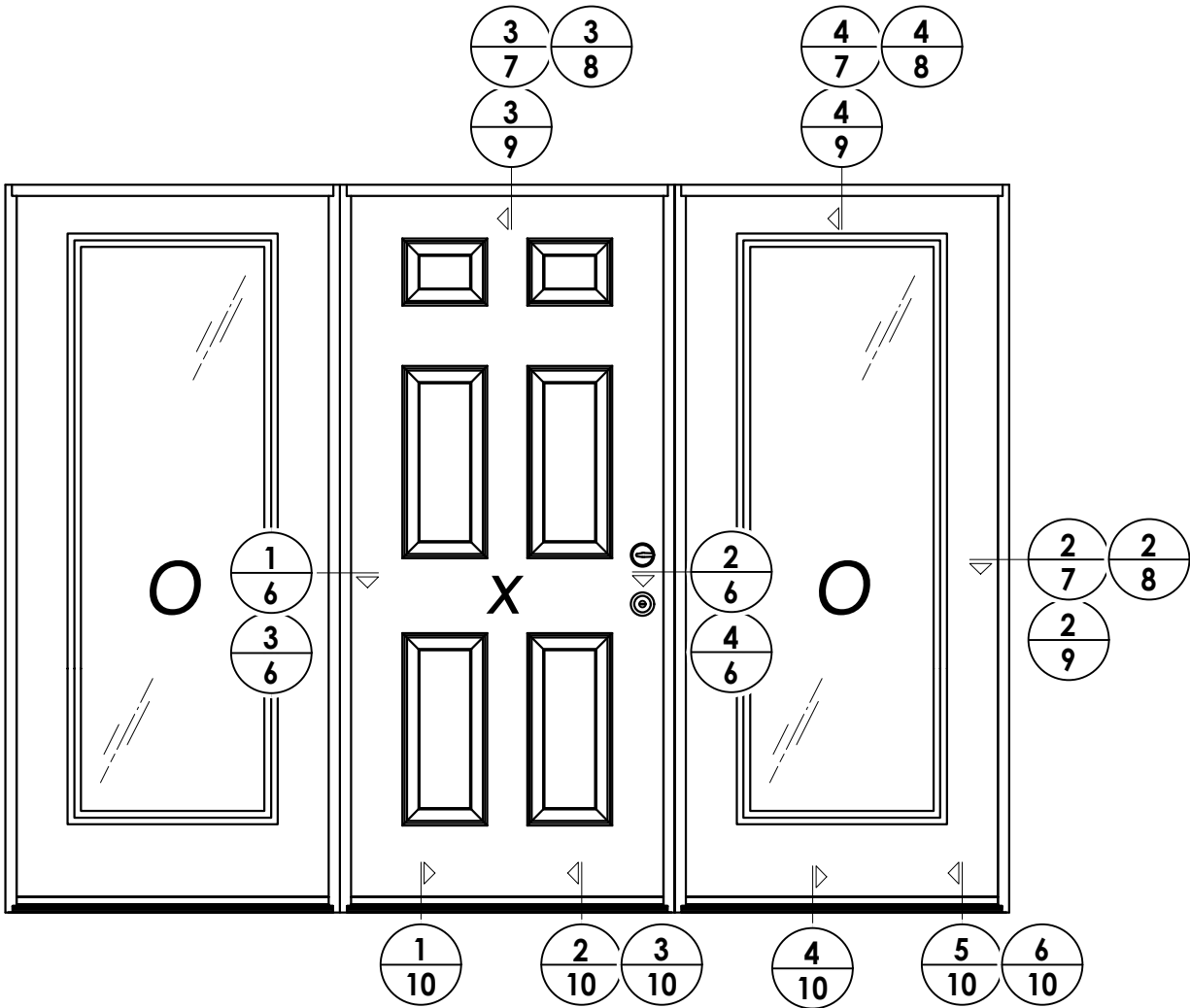
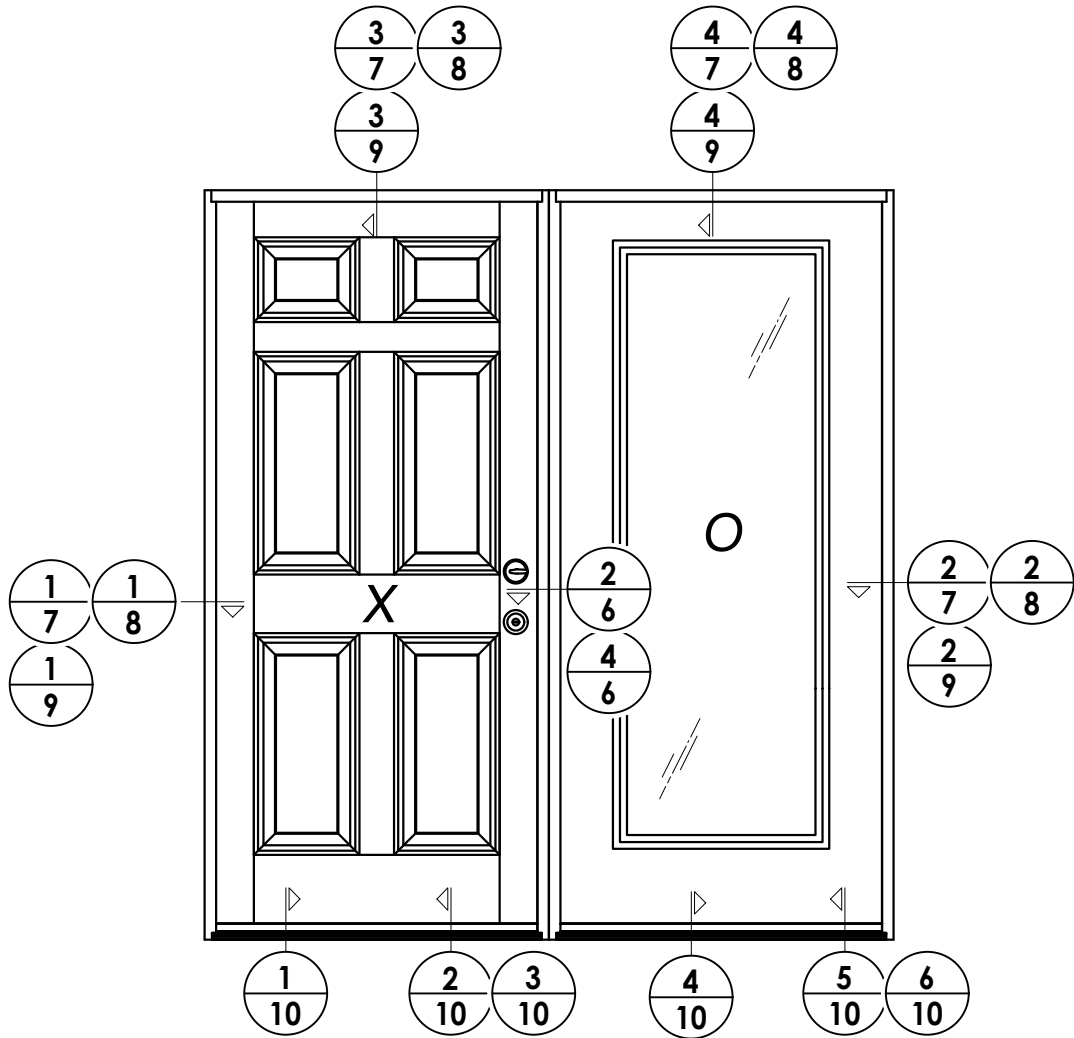
STEEL SKIN "PROFILES": 24 GA. (0.022" MIN. THICKNESS, $F_y = 48,470$ PSI MIN.)
STEEL SKIN "TRADITIONS": 25 GA. (0.018" MIN. THICKNESS, $F_y = 27,830$ PSI MIN.)
FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)



2 4 VERTICAL CROSS SECTION

DATE: 10/11/17		DRAWING NO.: FL-23507.2		SHEET 4 OF 17	
SCALE: N.T.S.		CHK. BY: LFS		DWG. BY: JK	
NO.		DATE		REVISIONS	
2	8/17/23	UPDATE TO 8TH ED. (2023) FBC		LFS	
1	2/23/20	UPDATE TO 2014 FBC (2020) FBC		RW	
PART OR ASSEMBLY:		SIDELITE PANEL / GLAZING DETAILS			
PRODUCT:		THERMA-TRU STEEL DOOR			
Documents Prepared By:		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
		Lyndon F. Schmidt P.E. No. 43409			

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PROFILES/TRADITIONS Steel Door Panel Options

Panel options shown are for illustration and are representative only
(similar opaque panel configurations are allowed)

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

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

PRODUCT:
THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:
ELEVATIONS

DATE: 10/11/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-23507.2

SHEET 5 OF 17

REVISIONS

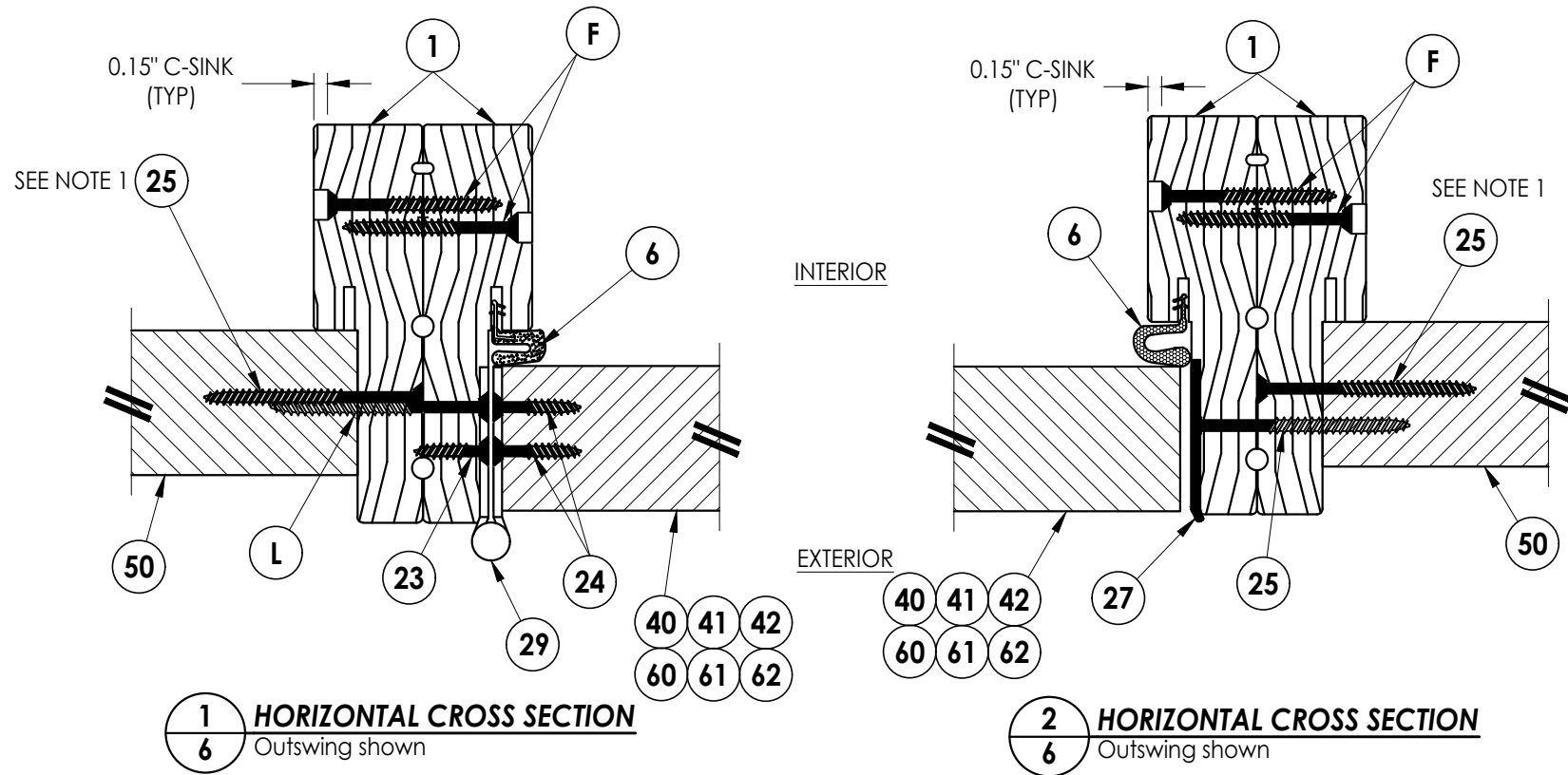
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1	7/15/20	UPDATE TO 7th ED (2020)	FBC	PO
NO.	DATE			BY

R^W

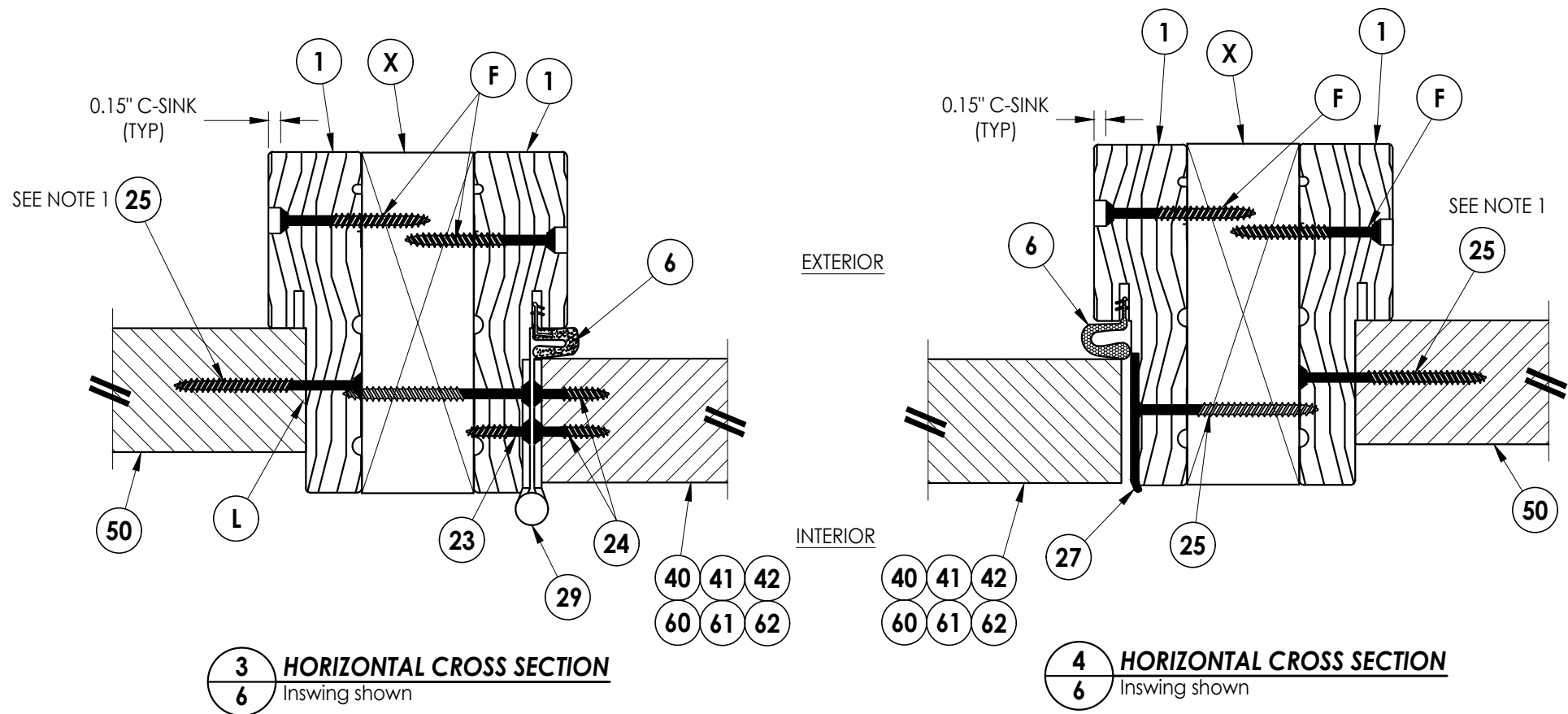
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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Notes:
1. Sidelite assembly screws located 7" from top and 14" from bottom &
2 more screws equally spaced between (4 screws total per side jamb).



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:
THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

NO.	DATE	REVISIONS
2	8/17/23	UPDATE TO 8TH ED. (2023) FBC
1	7/15/20	UPDATE TO 7th ED (2020) FBC
LFS	PO	BY

DATE: 10/11/17

SCALE: N.T.S.

DWG. BY: JK

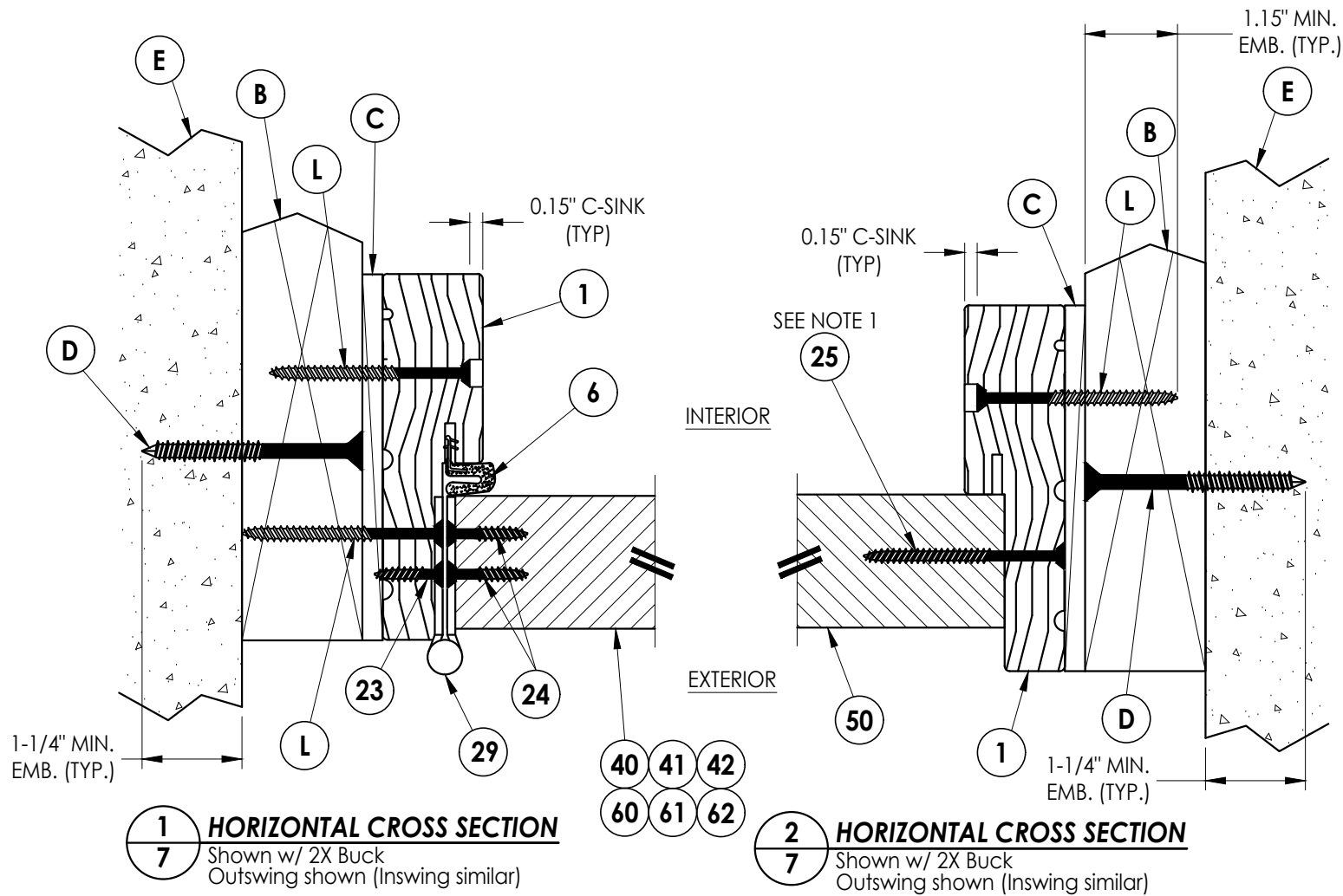
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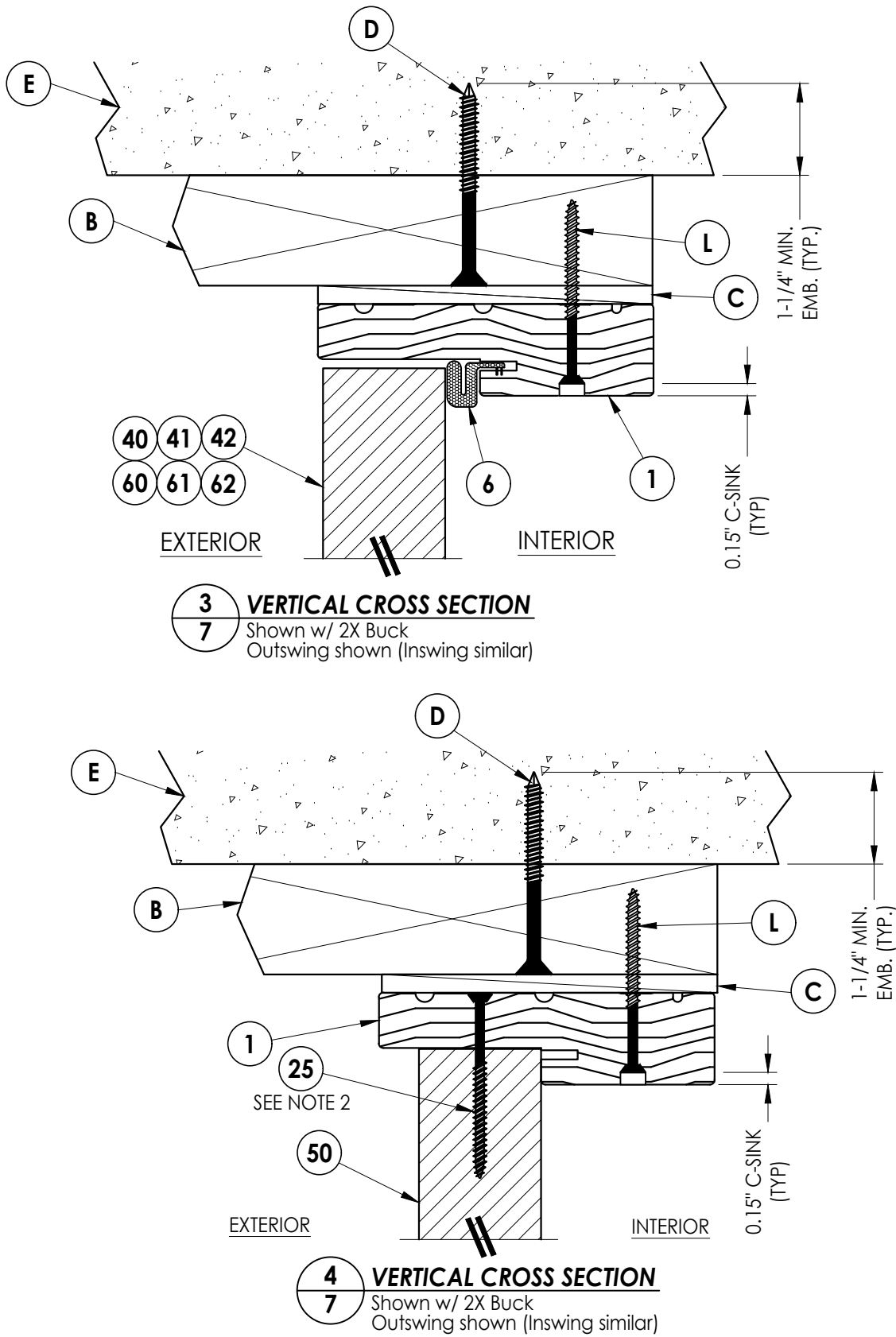
FL-23507.2

SHEET 6 OF 17

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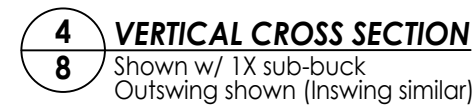
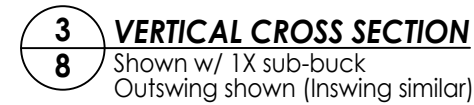
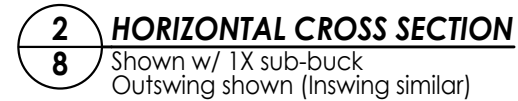
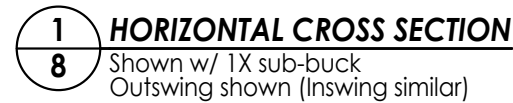


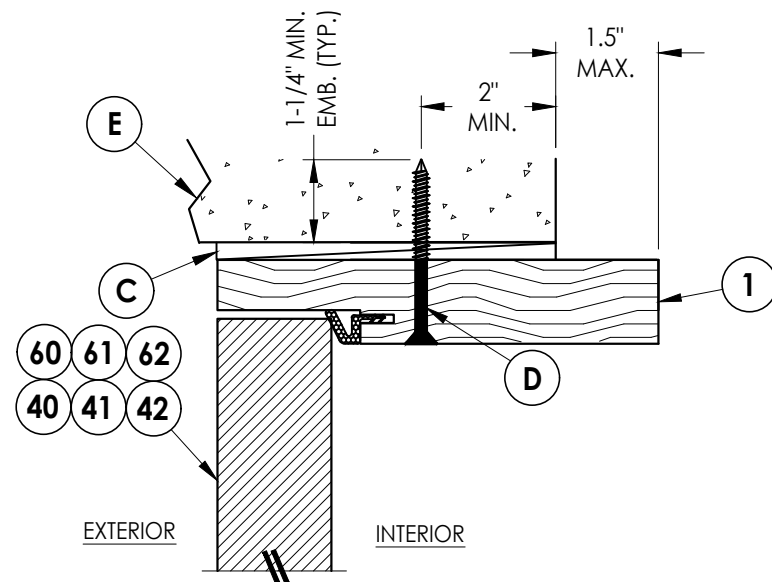
- Notes:
1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
 2. Sidelite assembly screws located 3" from each end (2 screws along head jamb).



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: THERMA-TRU STEEL DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)	
		LFS	BY
		FBC	PO
2	8/17/23	UPDATE TO 8TH ED. (2023)	FBC
1	7/15/20	UPDATE TO 7th ED (2020)	FBC
NO. DATE		REVISIONS	
DATE: 10/11/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-23507.2			
SHEET 7 OF 17			

1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end (2 screws along head jamb).

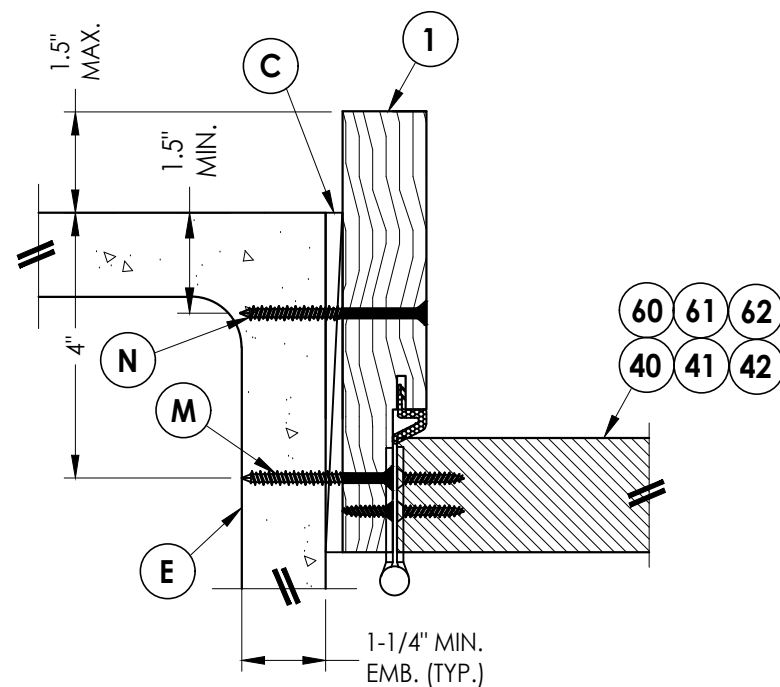
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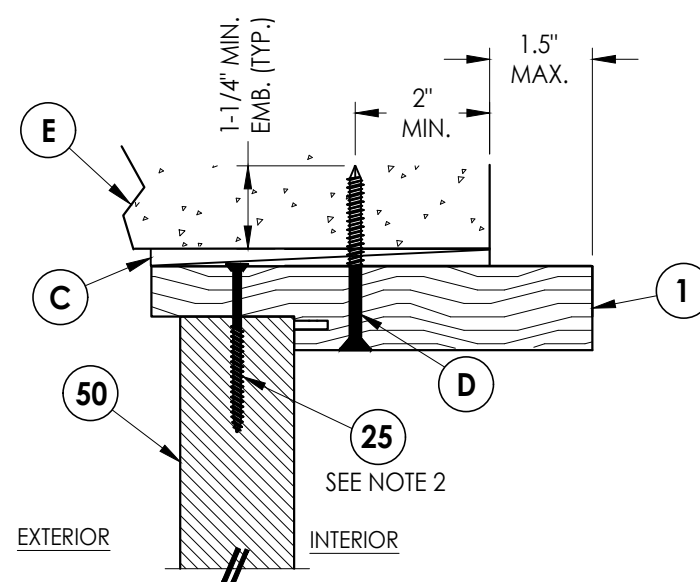
3 **HORIZONTAL CROSS SECTION**
9 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb

Notes:

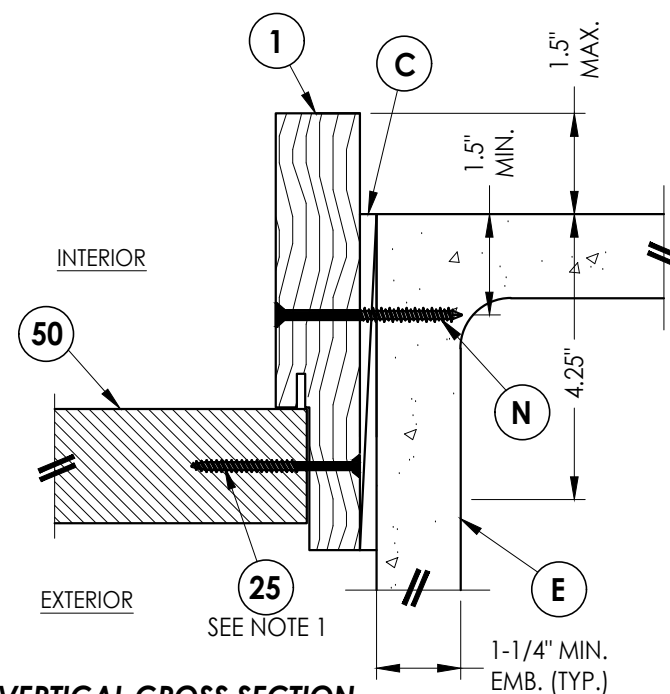
1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end (2 screws along head jamb).



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



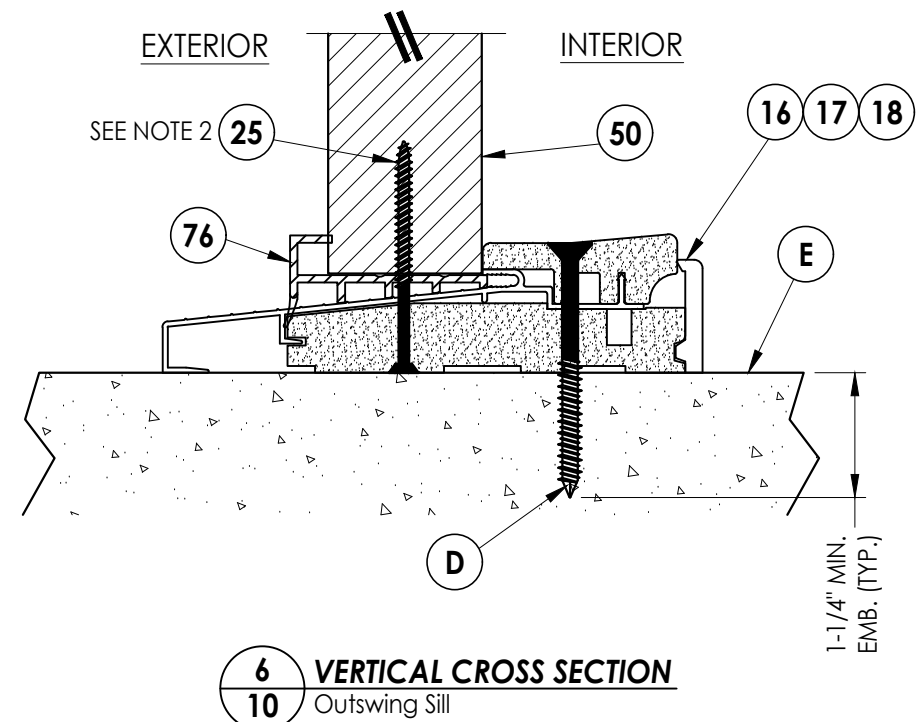
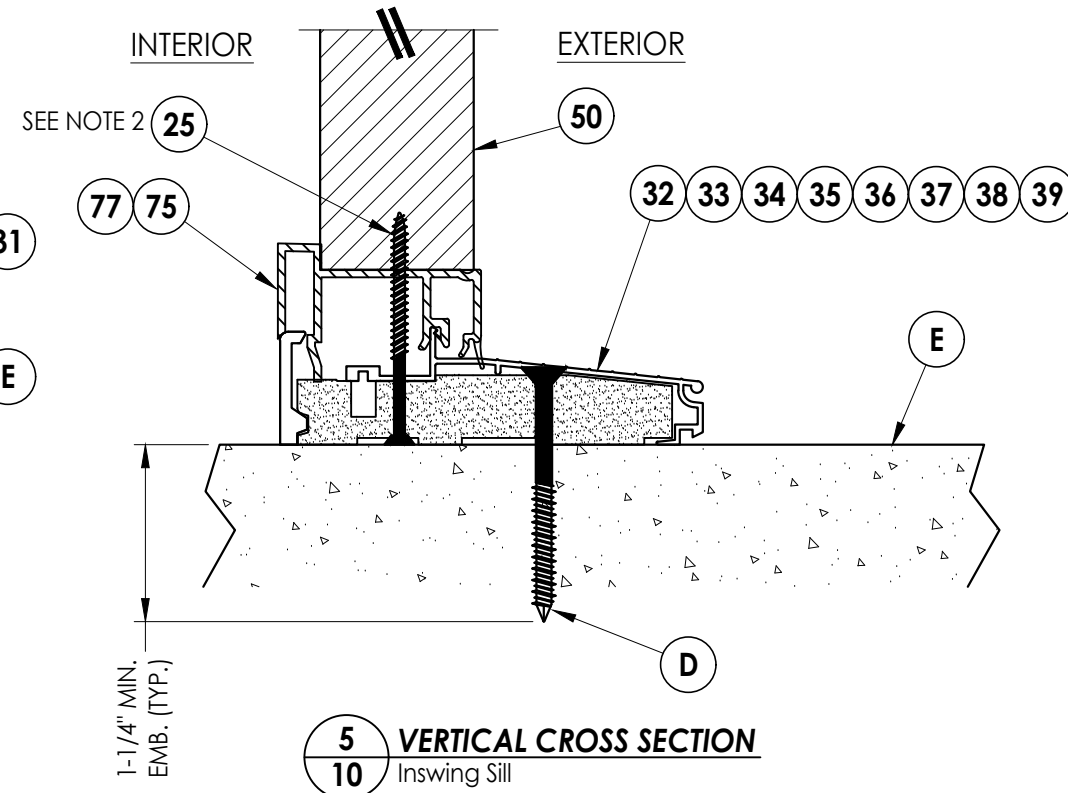
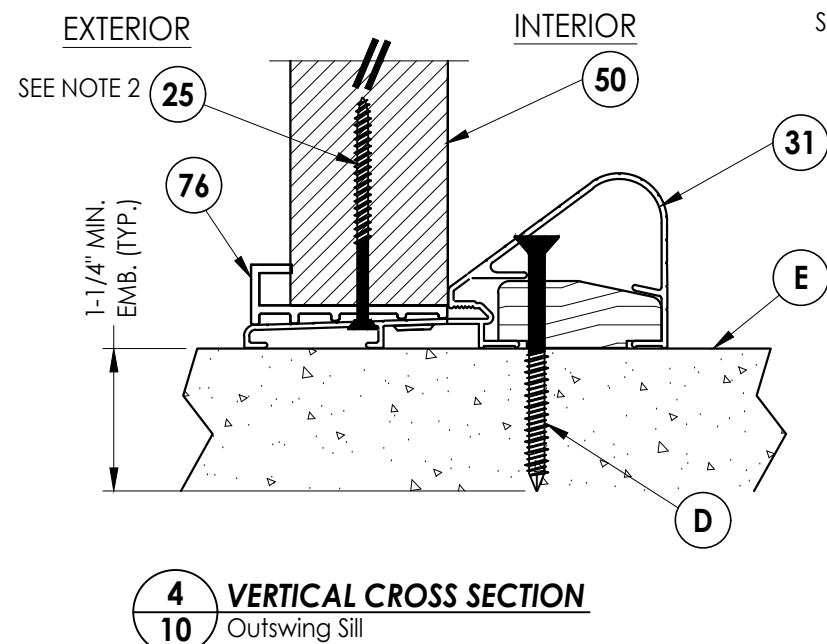
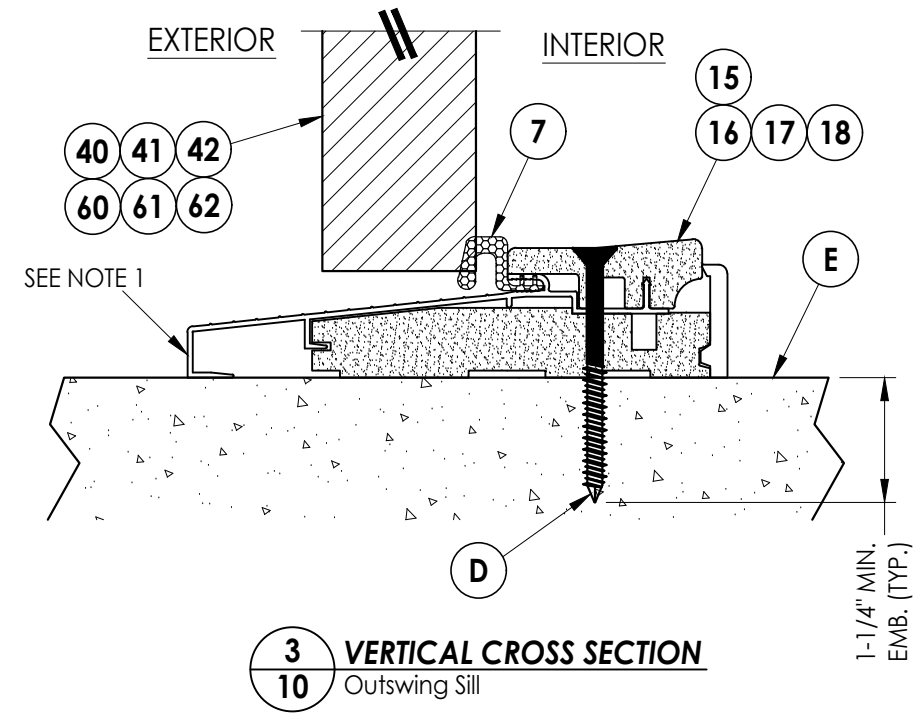
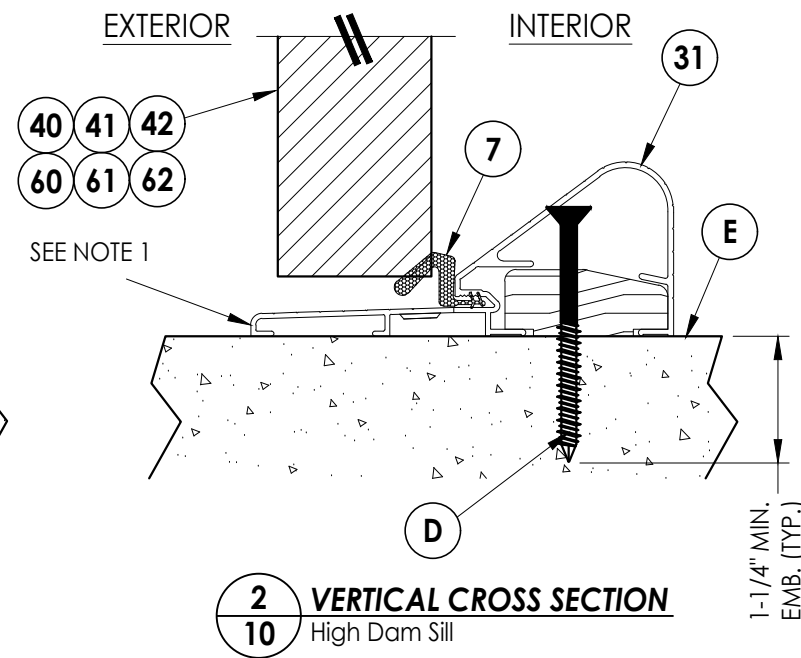
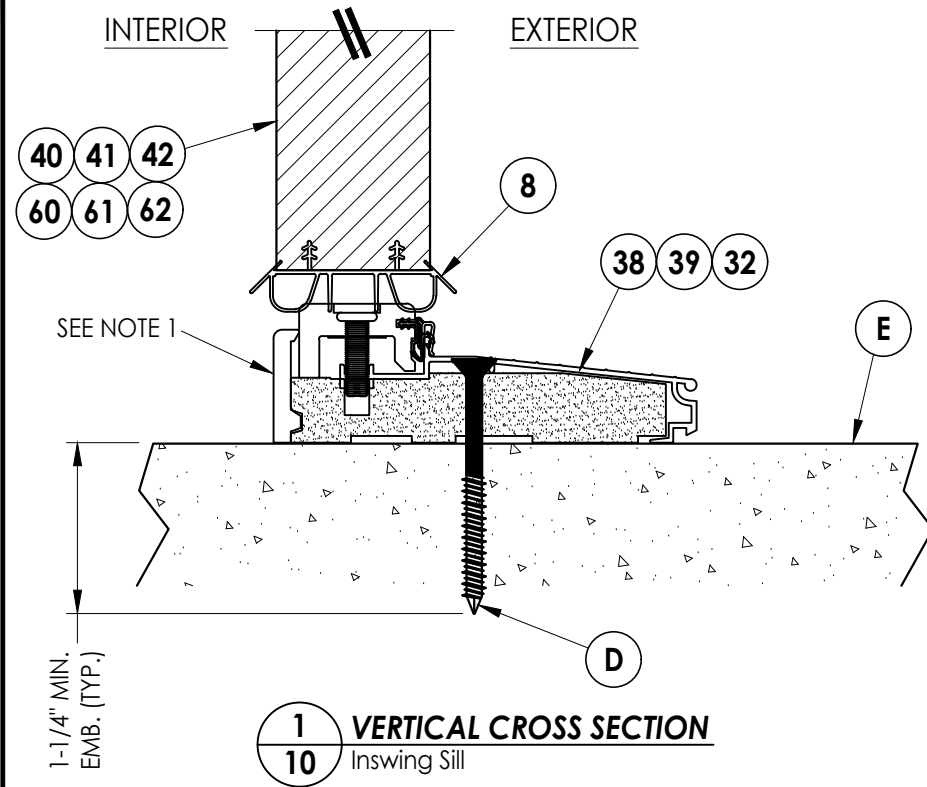
4 **VERTICAL CROSS SECTION**
9 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb



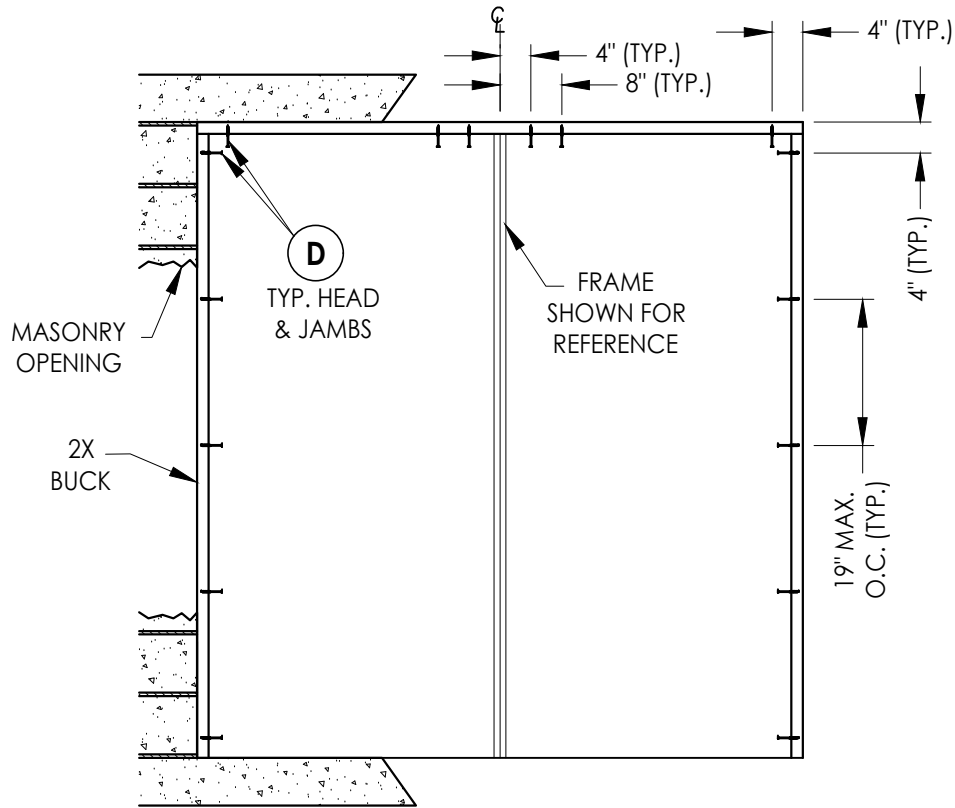
2 **VERTICAL CROSS SECTION**
9 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb

DATE: 10/11/17		THERMA-TRU STEEL DOOR		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
SCALE: N.T.S.		PART OR ASSEMBLY:		 BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 ERPE Registry No. 9813	
DWG. BY: JK		HORIZONTAL & VERTICAL SECTIONS (DIRECT TO MASONRY)			
CHK. BY: LFS					
DRAWING NO.: FL-23507.2					
SHEET 9 OF 17					

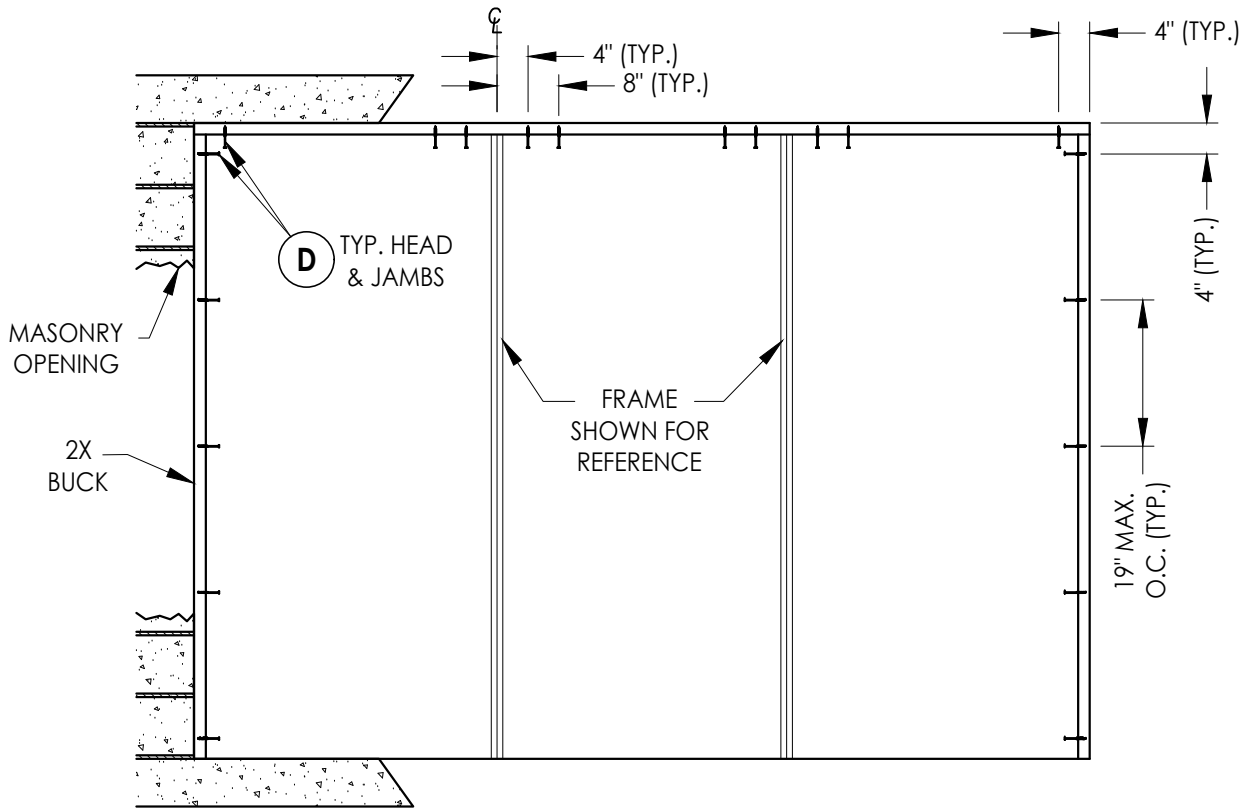
1. Sill Item #'s 17, 18, 32, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pph screws at each end.
Sill Item #'s 16 & 33 are attached to jambs w/ (2) #8 X 2-1/2" pph screws at each end.
Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph screws at each end.
2. Sidelite assembly screws located 4" from each end (2 screws along sill).

[illegible]

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XO/OX



OXO

2X BUCK ANCHORING

NO.	DATE	REVISIONS
2	8/17/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	7/15/20	UPDATE TO 7th ED (2020) FBC PO
		BY

DATE: 10/11/17

SCALE: N.T.S.

DWG. BY: JK

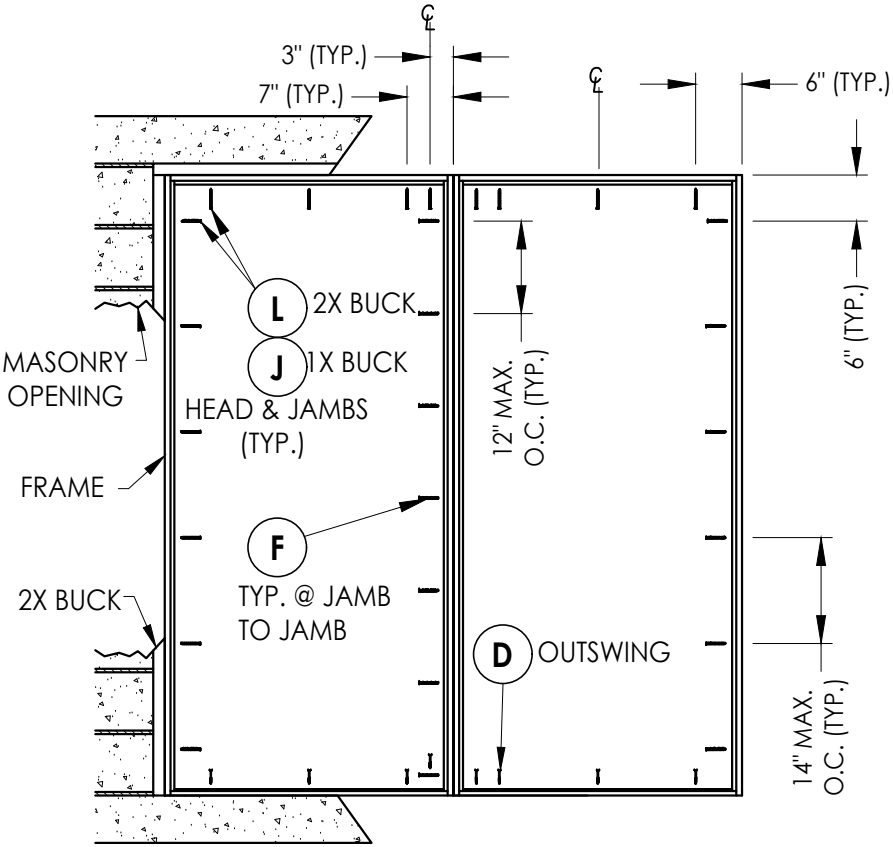
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DRAWING NO.:
FL-23507.2

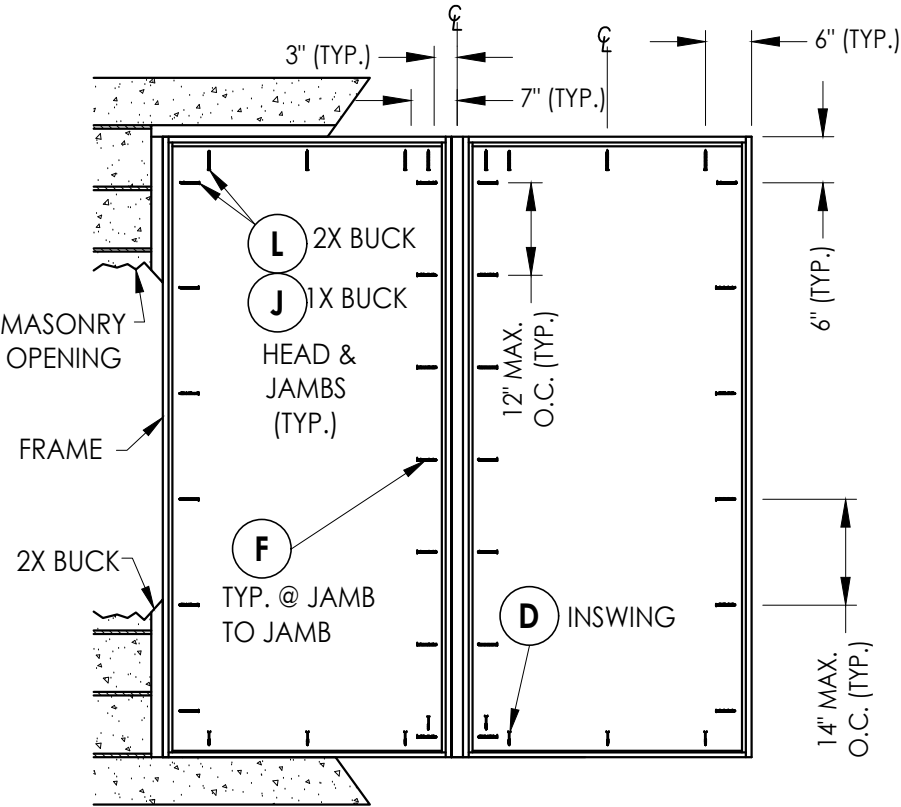
SHEET 11 OF 17

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



OUTSWING OX/XO



INSWING OX/XO

FRAME ANCHORING

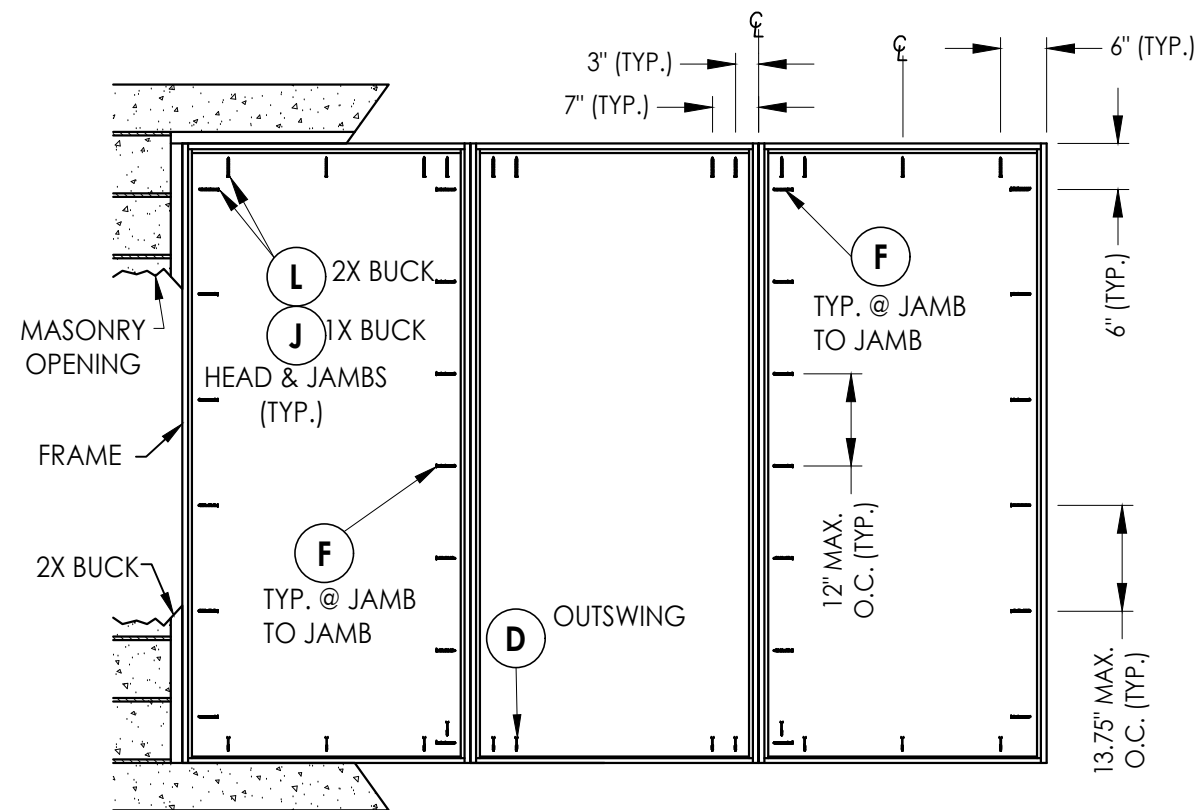
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SCALE: N.T.S.	
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	
FL-23507.2	
SHEET	12 OF 17

2	8/17/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
1	7/15/20	UPDATE TO 7th ED (2020)	FBC	PO	
NO.	DATE			BY	
REVISIONS					

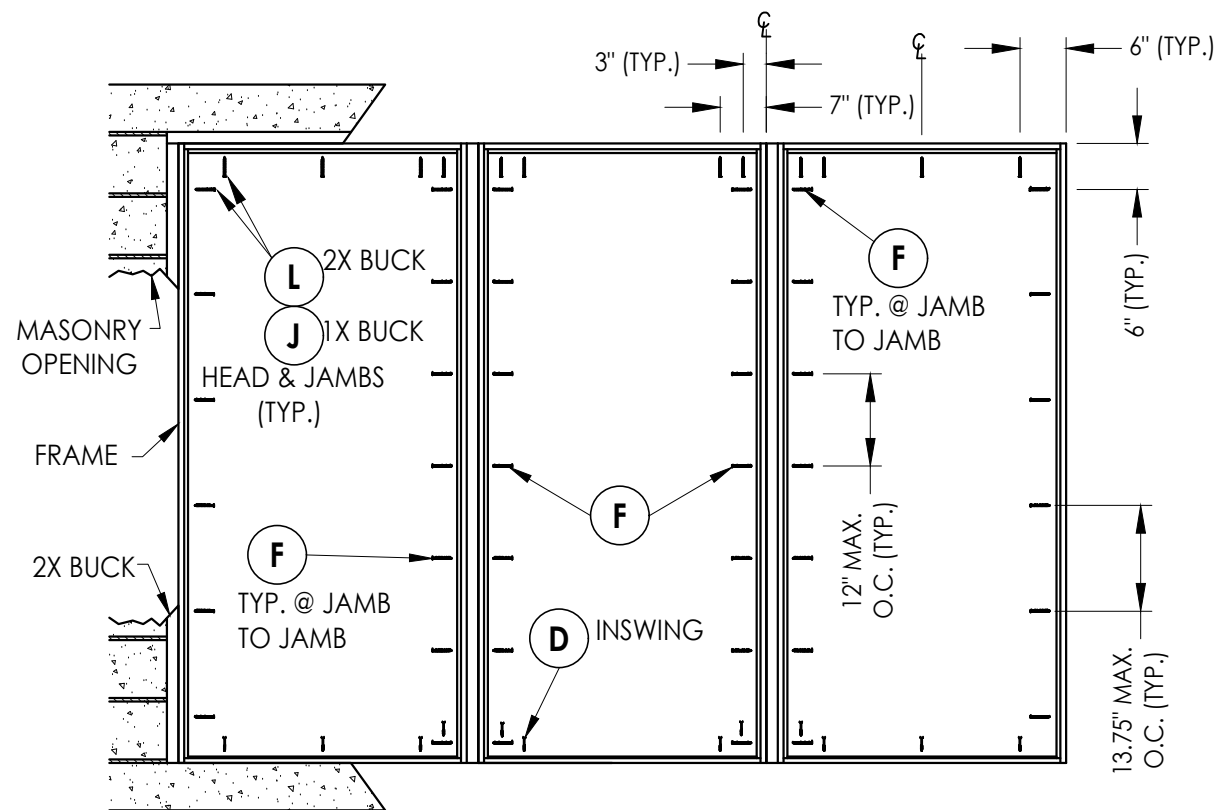
PRODUCT:	THERMA-TRU STEEL DOOR
PART OR ASSEMBLY:	FRAME ANCHORING 2X BUCK MASONRY CONSTRUCTION

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



OUTSWING OXO



INSWING OXO

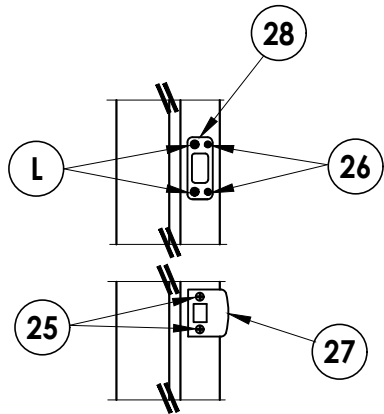
FRAME ANCHORING

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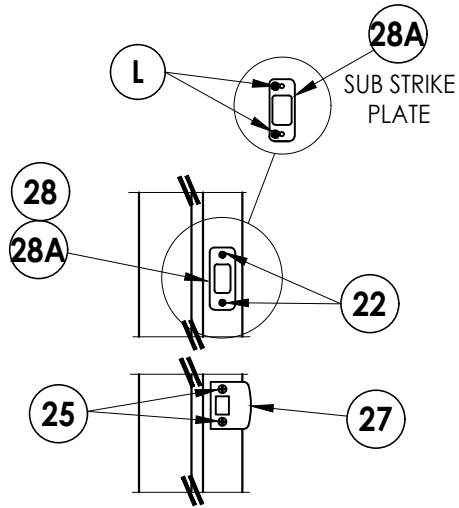
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

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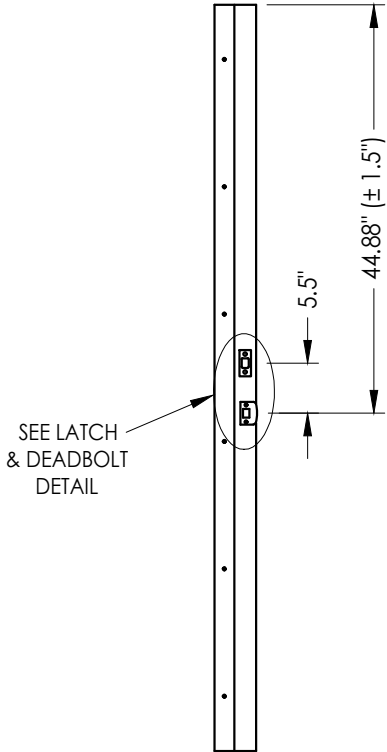


LATCH & DEADBOLT DETAIL
Kwikset

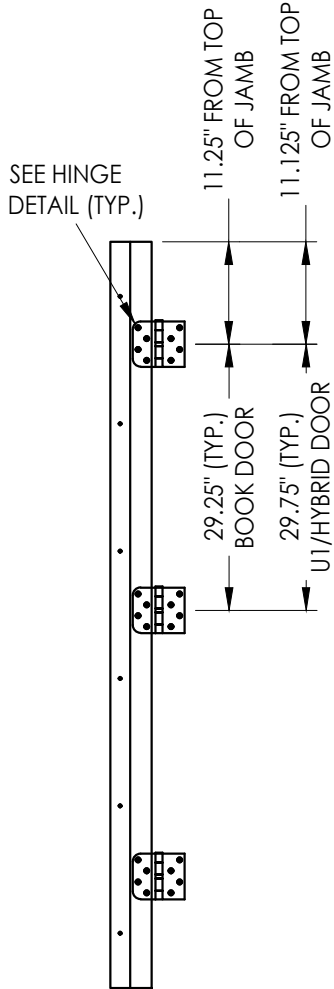


LATCH & DEADBOLT DETAIL
Schlage

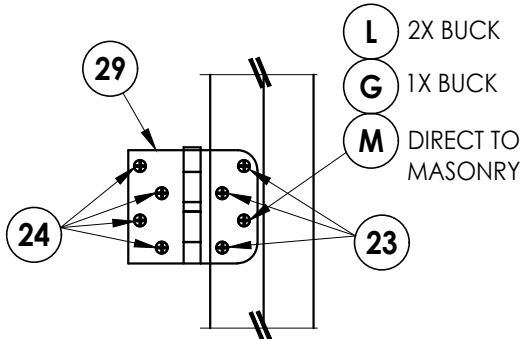
LATCH & DEADBOLT STRIKE DETAILS



STRIKE JAMB
Latch and Deadbolt



HINGE JAMB



HINGE DETAIL

DATE: 10/11/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-23507.2

SHEET 14 OF 17

PRODUCT:
THERMA-TRU
STEEL DOOR

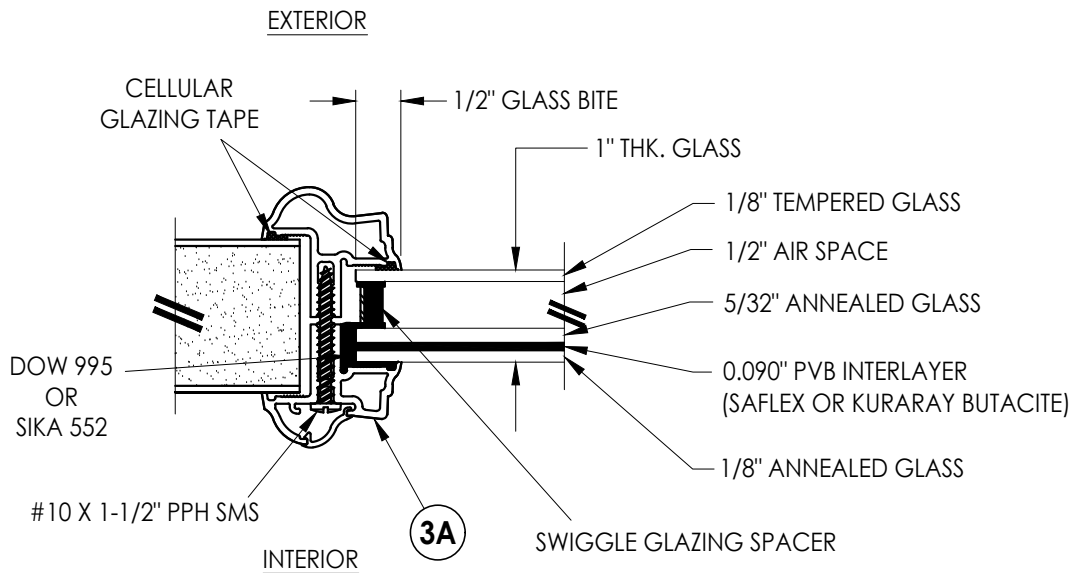
PART OR ASSEMBLY:
HARDWARE DETAILS

NO.	DATE	REVISIONS
2	8/17/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	7/15/20	UPDATE TO 7th ED (2020) FBC PO

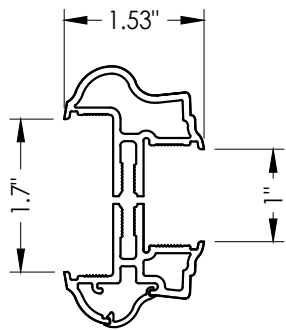
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

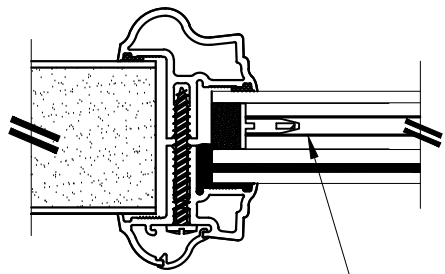
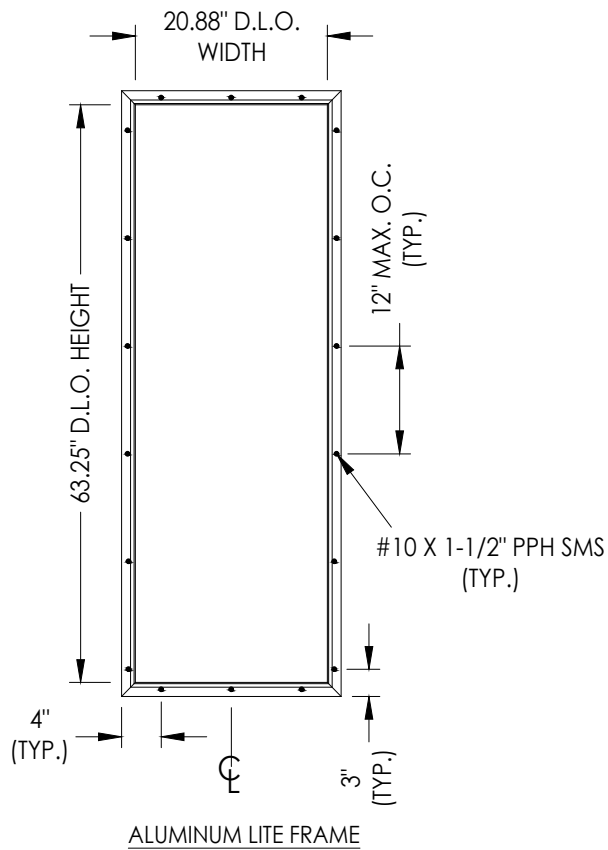
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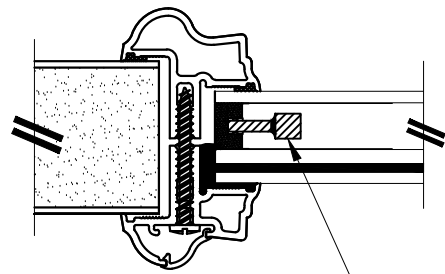
G1 GLAZING DETAIL
Aluminum Impact Lite Frame
Door Panels & Sidelites



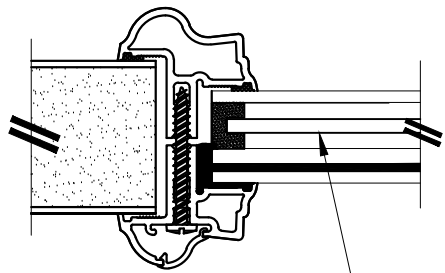
3A ALUMINUM FRAME
Aluminum Impact Lite Frame
Door Panels & Sidelites



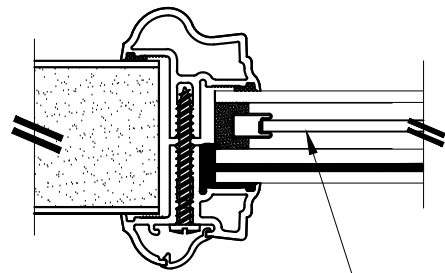
INTERNAL GRID (GBG)



WROUGHT IRON INSERT



PRIVACY INSERT



DECORATIVE INSERT

1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS

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FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
STEEL DOOR

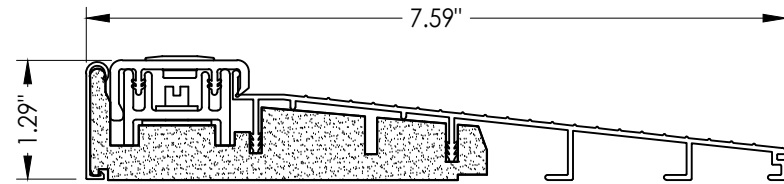
PART OR ASSEMBLY:

GLAZING DETAILS

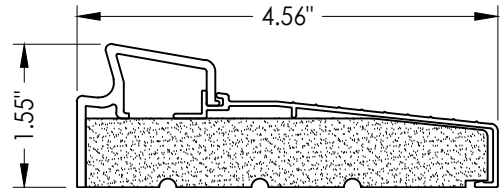
NO.	DATE	REVISIONS
2	8/17/23	UPDATE TO 8TH ED. (2023) FBC
1	7/15/20	UPDATE TO 7th ED (2020) FBC

DATE:	10/11/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-23507.2
SHEET	15 OF 17

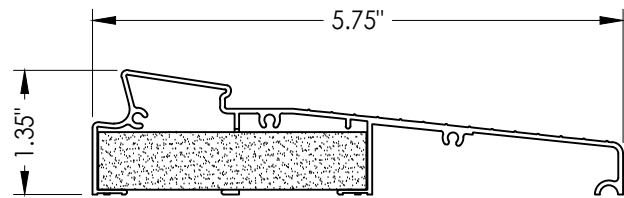
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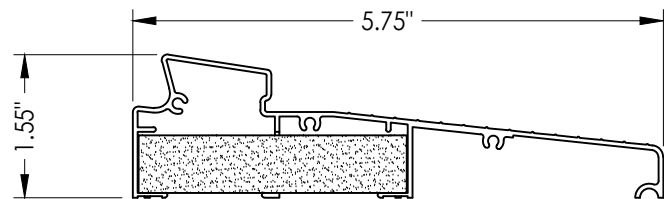
32 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill 7-1/2"



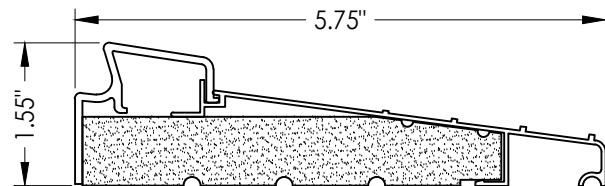
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



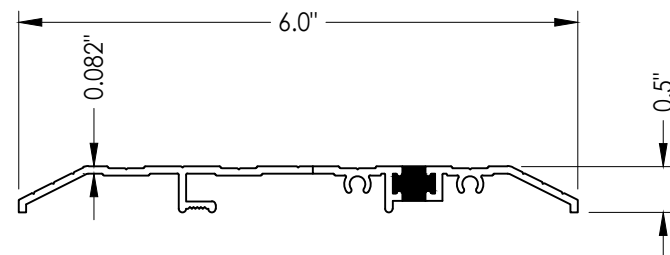
34 INSWING THRESHOLD
Inswing Moderate Climate Sill 1-3/8"



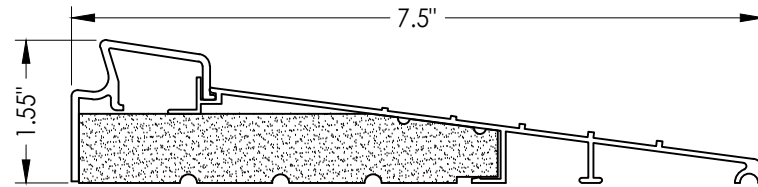
35 INSWING THRESHOLD
Inswing Moderate Climate Sill



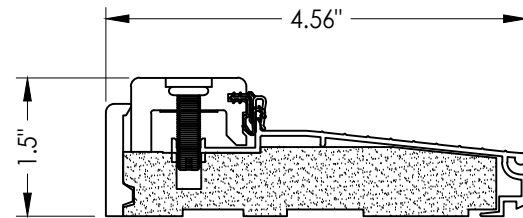
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



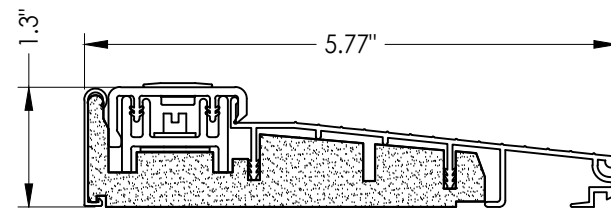
15 PUBLIC ACCESS THRESHOLD



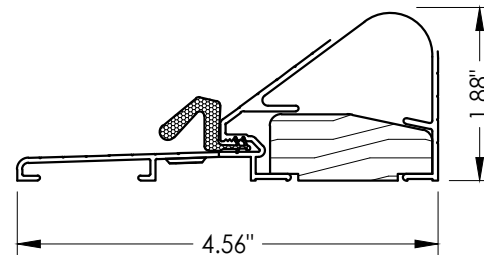
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



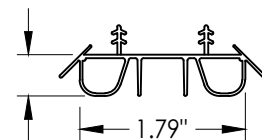
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



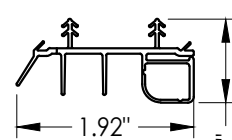
39 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill



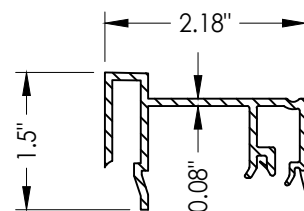
31 OUTSWING
Threshold coastal



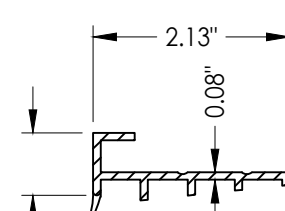
8 SWEEP



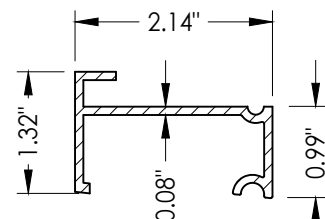
9 SWEEP



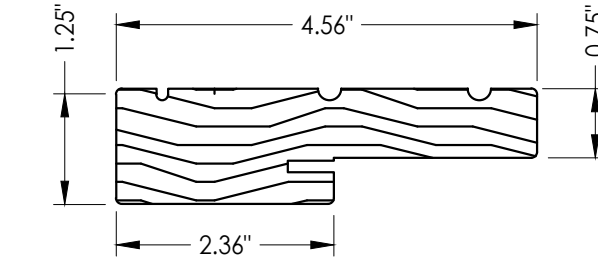
75 SIDELITE SPACER
Inswing



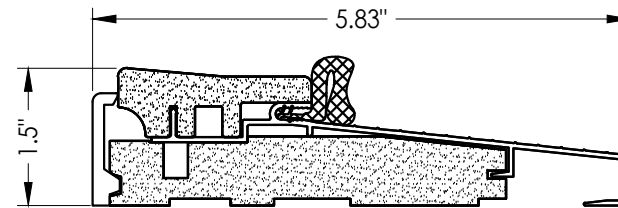
76 SIDELITE SPACER
Outswing



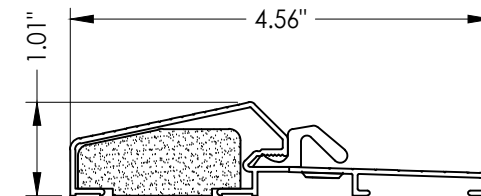
77 SIDELITE SPACER
Inswing
Moderate Climate Threshold



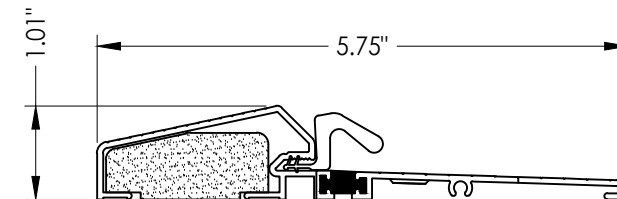
1 WOOD JAMB



16 OUTSWING THRESHOLD
Composite Sill



17 OUTSWING THRESHOLD
Composite / Aluminum Sill



18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)

Documents Prepared By:
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P.O. Box 230, Valrico, FL 33595
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FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:
COMPONENTS

NO.	DATE	REVISIONS
2	8/17/23	UPDATE TO 8TH ED. (2023) FBC
1	7/15/20	UPDATE TO 7th ED (2020) FBC

DATE: 10/11/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-23507.2

SHEET 16 OF 17

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BILL OF MATERIALS			BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL	ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD	25	#8 x 2-1/2" PFH WOOD SCREW	STEEL
B	2X BUCK (SG >= 0.42)	WOOD	26	#8 x 5/8" PFH WOOD SCREW	STEEL
C	1/4" MAX. SHIM SPACE	-	27	LATCH STRIKE PLATE	STEEL
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	28	DEADBOLT STRIKE PLATE	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	28A	DEADBOLT SUB STRIKE PLATE	STEEL
			29	4" X 4" HINGE	STEEL
F	#10 X 2" PFH WOOD SCREW	STEEL	31	OUTSWING THRESHOLD	ALUM/COMP
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	32	INSWING THRESHOLD	ALUM/COMP
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	33	INSWING THRESHOLD	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	34	INSWING THRESHOLD	ALUM/COMP
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	35	INSWING THRESHOLD	ALUM/COMP
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	36	INSWING THRESHOLD	ALUM/COMP
1	JAMB (FINGER JOINT PINE)	WOOD	37	INSWING THRESHOLD	ALUM/COMP
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	38	INSWING THRESHOLD	ALUM/COMP
7	WEATHERSTRIP (LONG REACH)	FOAM	39	INSWING THRESHOLD	ALUM/COMP
8	SWEEP	VINYL	40	DOOR PANEL (BOOK) - "PROFILES" SERIES	-
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	VINYL	41	DOOR PANEL (HYBRID) - "PROFILES" SERIES	-
15	PUBLIC ACCESS THRESHOLD	ALUM	42	DOOR PANEL (U1) - "PROFILES" SERIES	-
16	OUTSWING THRESHOLD	ALUM/COMP	50	SIDELITE (FULL LITE)	-
17	OUTSWING THRESHOLD	ALUM/COMP	60	DOOR PANEL (BOOK) - "TRADITIONS" SERIES	-
18	OUTSWING THRESHOLD	ALUM/COMP	61	DOOR PANEL (HYBRID) - "TRADITIONS" SERIES	-
22	#8 x 3/4" PFH WOOD SCREW	STEEL	62	DOOR PANEL (U1) - "TRADITIONS" SERIES	-
23	#10 x 3/4" PFH WOOD SCREW	STEEL	75	SIDELITE SPACER (INSWING)	-
24	#10 x 1" PFH WOOD SCREW	STEEL	76	SIDELITE SPACER (OUTSWING)	-
			77	SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL	-

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

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.

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

PRODUCT:
THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS

REVISIONS

2	8/17/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
1	7/15/20	UPDATE TO 7th ED (2020)	FBC	PO
NO.	DATE			BY

DATE: 10/11/17

SCALE: N.T.S.

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SHEET 17 OF 17

RW

BUILDING CONSULTANTS, INC.
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