

# STEVE'S & SONS

203 Humble Ave.  
San Antonio, TX 78225

## GLAZED FIBERGLASS SINGLE DOOR w/ or w/out SIDELITE(S) "NON-IMPACT" INSWING

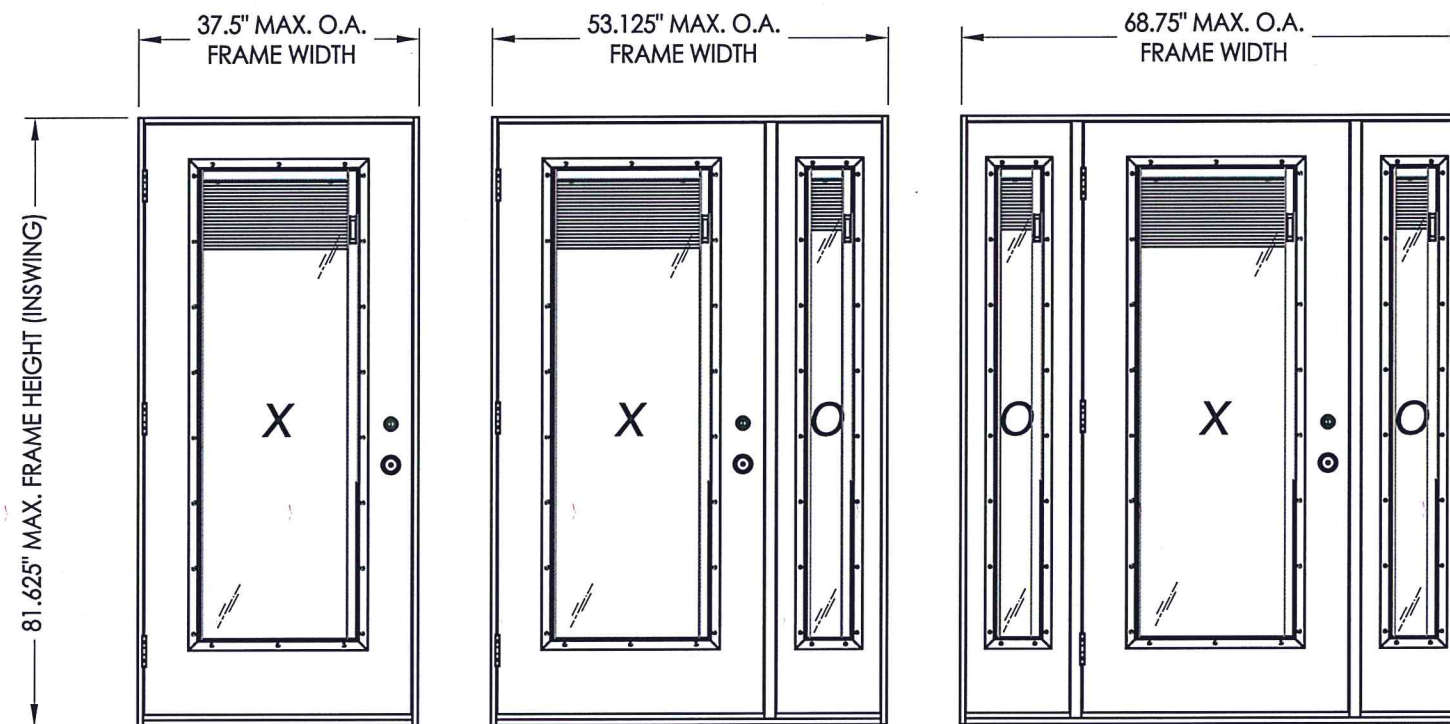
### EVALUATED FOR USE IN THE STATE OF TEXAS

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:

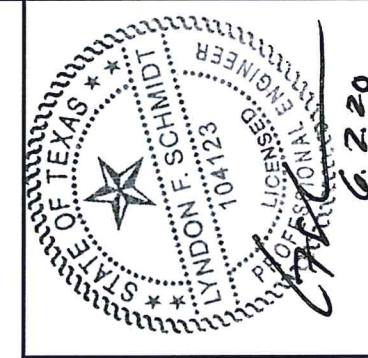
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.1.2 of the IBC.
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. Conditions not covered by this drawing are subject to further engineering analysis.

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1	Typical elevations, design pressures & general notes
2	Door & sidelite panel details
3	Lite frame details
4	Elevations
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6	Vertical cross sections
7	Frame anchoring
8	Bill of materials & components



CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING	
		POSITIVE	NEGATIVE
X	37.5" x 81.625"	+47.0	-47.0
OX/XO	53.125" x 81.625"	+47.0	-47.0
OXO	68.75" x 81.625"	+47.0	-47.0



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

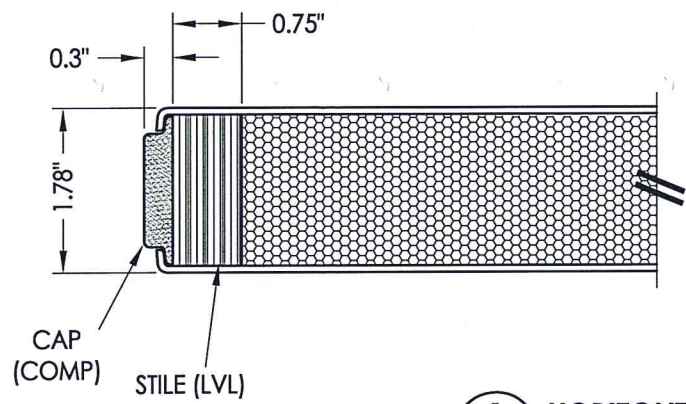
**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL, 33595  
Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852

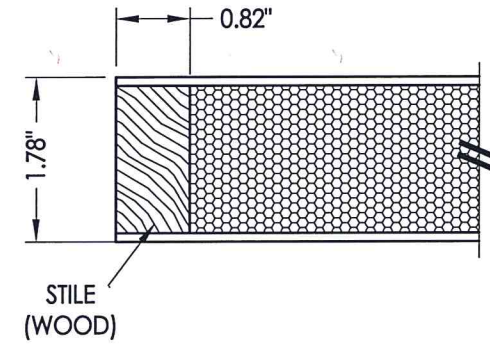
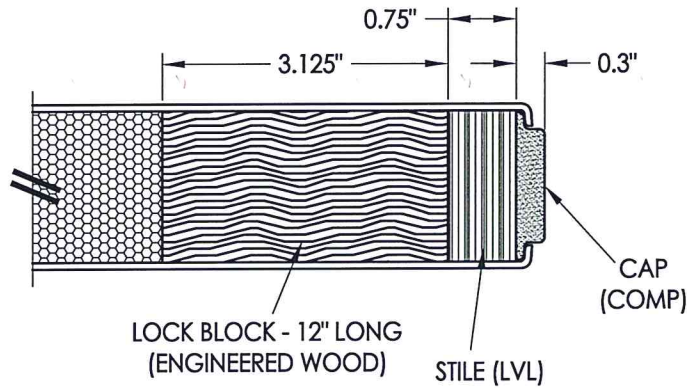
PRODUCT: STEVE'S & SONS	
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
NO.	DATE
2	6/02/20
1	6/06/18
REMOVED OUTSWING CONF.	
REVISIONS	
DATE: 4/25/18	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: TX-4813	
SHEET 1 OF 8	



R:\Clients\Steves and Sons - Permanent\B - Texas Dept of Ins\Hinged Doors-Fiberglass\DR 426 Glazed Fiberglass Doors\C - Drawings\TX-4813.dwg, 2.1



**1**  
**2** HORIZONTAL CROSS SECTION



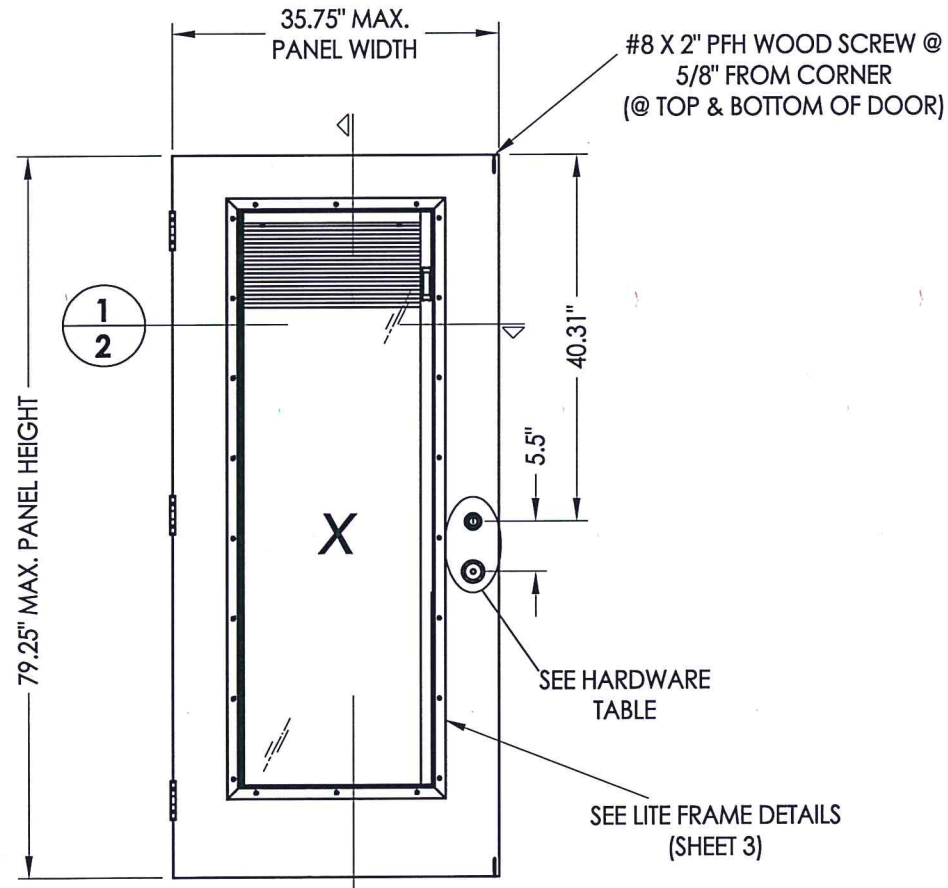
**3**  
**2** HORIZONTAL CROSS SECTION



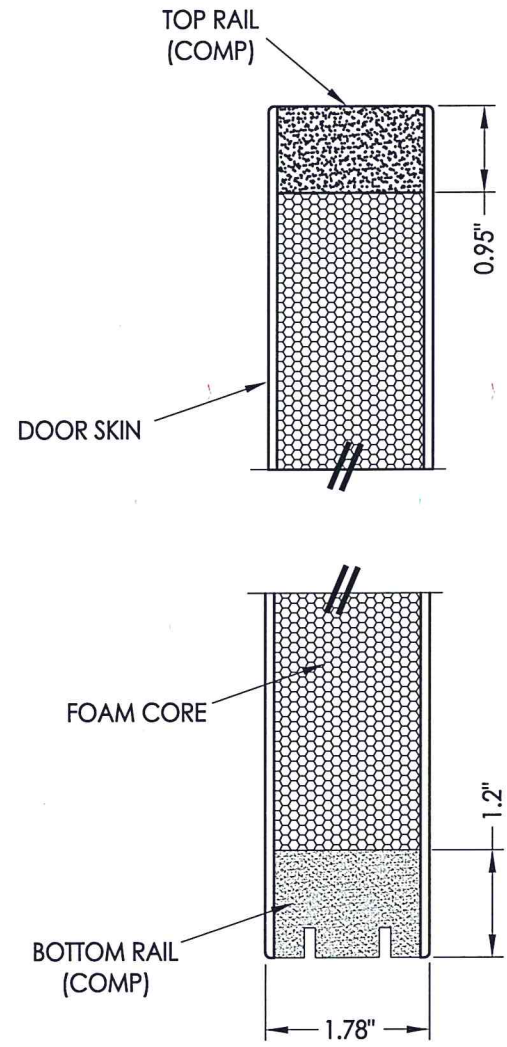
Documents Prepared By: Lyndon F. Schmidt, P.E.  
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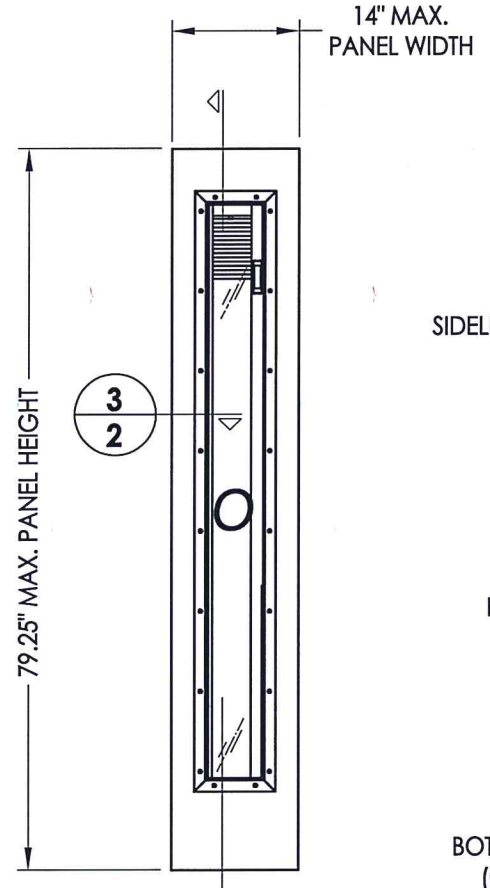
CERTIFICATE OF REGISTRATION # F-11852



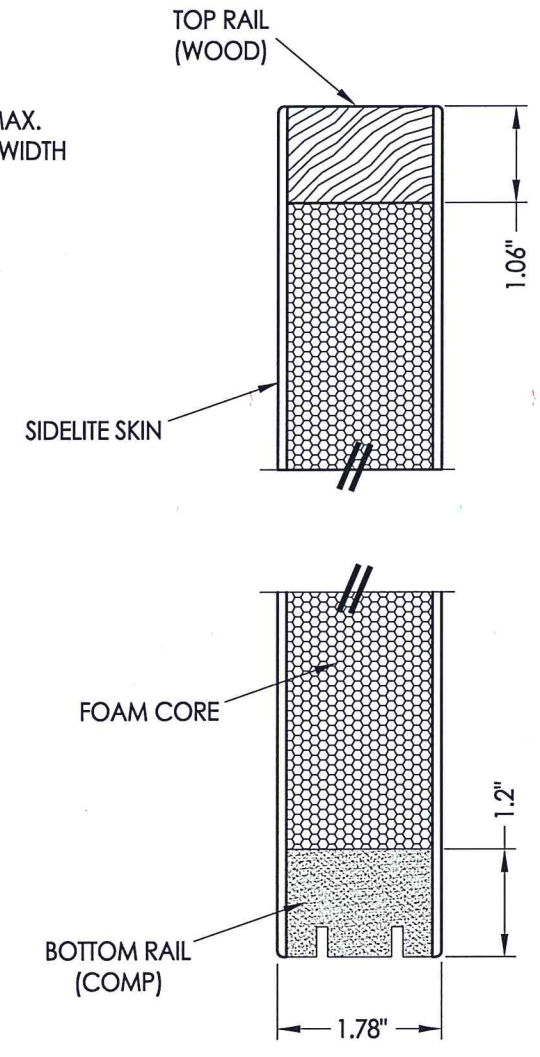
**40** DOOR PANEL  
Fiberglass



**2**  
**2** VERTICAL CROSS SECTION



**50** SIDELITE PANEL  
Fiberglass



**4**  
**2** VERTICAL CROSS SECTION

HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	NOB: KWIKSET (GR. 2) DEADBOLT: 660 SERIES (GR. 3)

DOOR/SIDELITE SKIN: 0.085" MIN. THK. FIBERGLASS  
CORE MATERIAL: POLYSTYRENE FOAM

PRODUCT: STEVES & SONS

PART OR ASSEMBLY:  
DOOR & SIDELITE  
PANEL DETAILS

NO.	DATE	REVISIONS	BY
2	6/02/20	UPDATE TO 2018 IBC/IRC CODE	LFS
1	6/06/18	CLARIFIED LOCK HARDWARE & REMOVED OUTSWING CONF.	LFS

DATE: 4/25/18

SCALE: N.T.S.

DWG. BY: JK

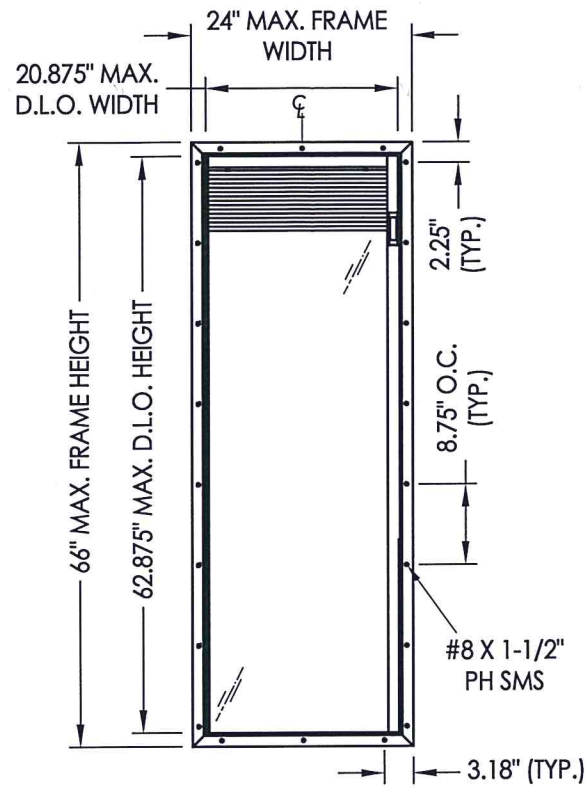
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DRAWING NO.: TX-4813

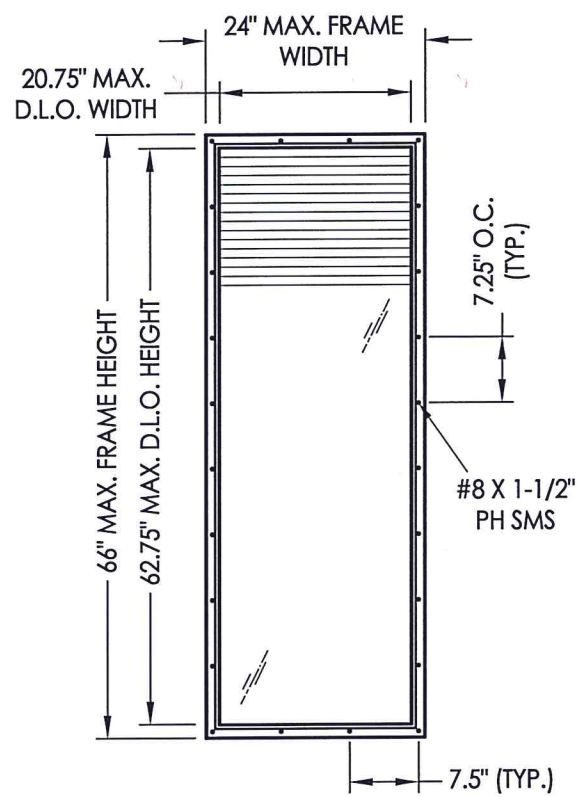
SHEET 2 OF 8

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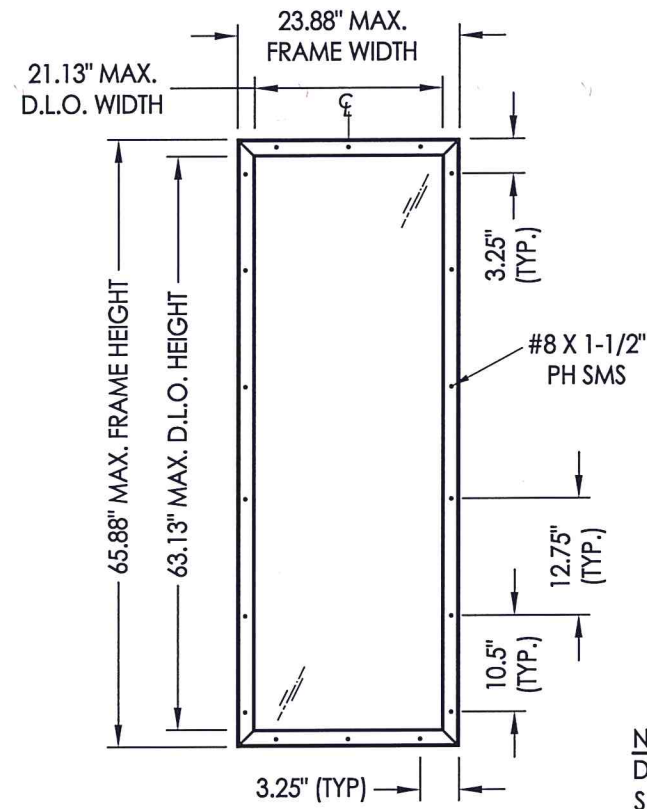




**EVOLVE LITE FRAME (ODL)**  
(w/ BLINDS BETWEEN GLASS)

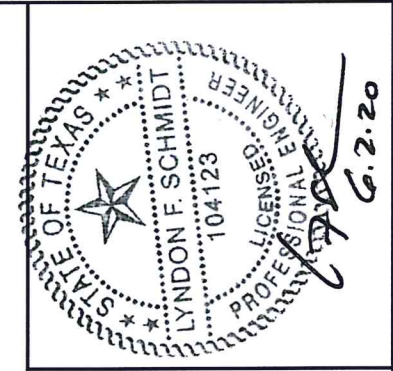


**TRIMLITE FRAME**  
(w/ BLINDS BETWEEN GLASS)



**ODL LITE FRAME**

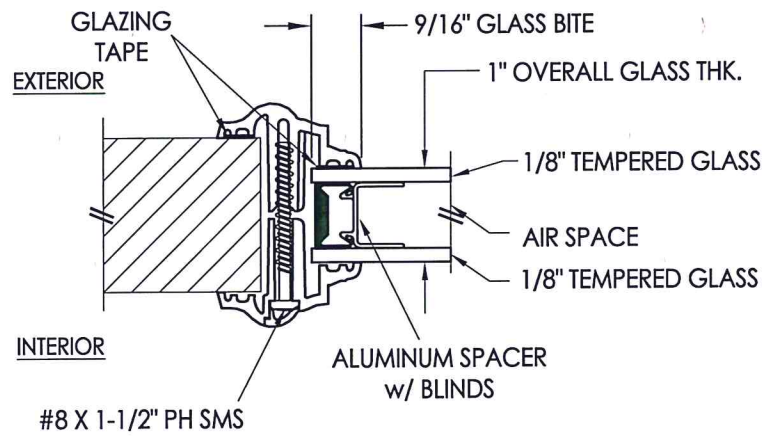
**NOTE:**  
DOOR PANEL LITE FRAMES (36" NOMINAL) ARE SHOWN. SIDELITE LITE FRAMES (14" NOMINAL) ARE SIMILAR w/ ONLY TWO (2) INSTALLATION SCREWS @ TOP & BOTTOM.



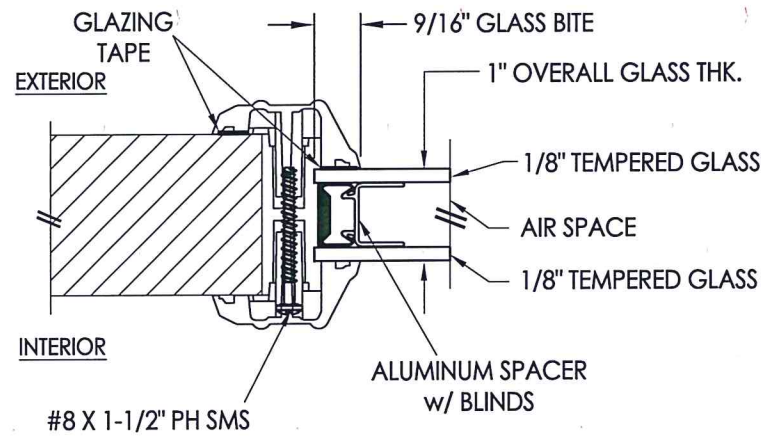
Documents Prepared By: Lyndon F. Schmidt, P.E.  
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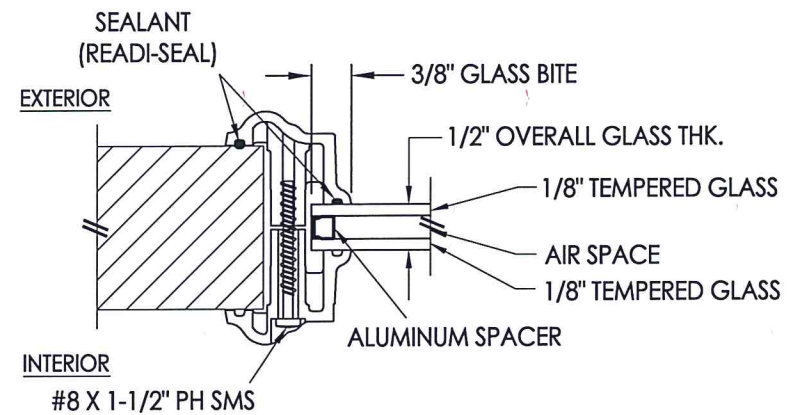
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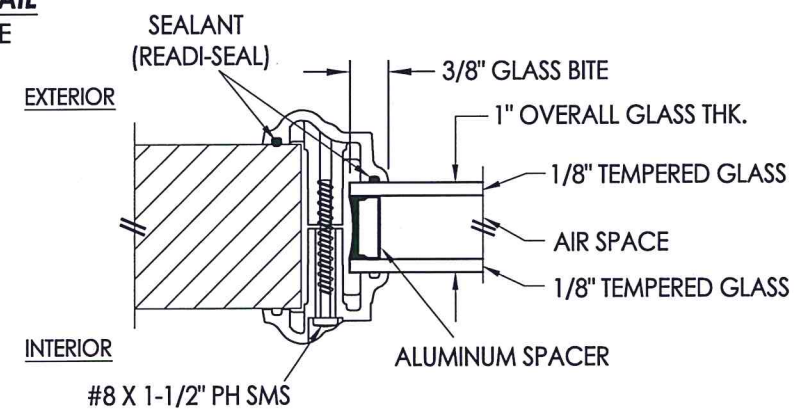
**G1 GLAZING DETAIL**  
EVOLVE LITE FRAME



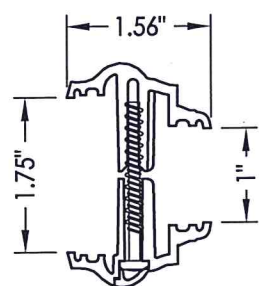
**G2 GLAZING DETAIL**  
TRIMLITE FRAME



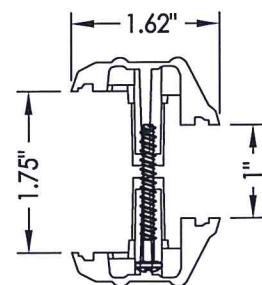
**G3 GLAZING DETAIL**  
ODL LITE FRAME



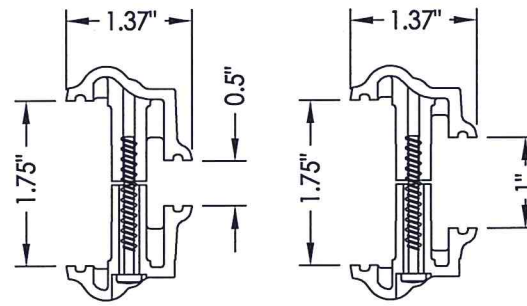
**G4 GLAZING DETAIL**  
ODL LITE FRAME



**EVOLVE LITE FRAME (1\"/>**



**TRIMLITE FRAME (1\"/>**

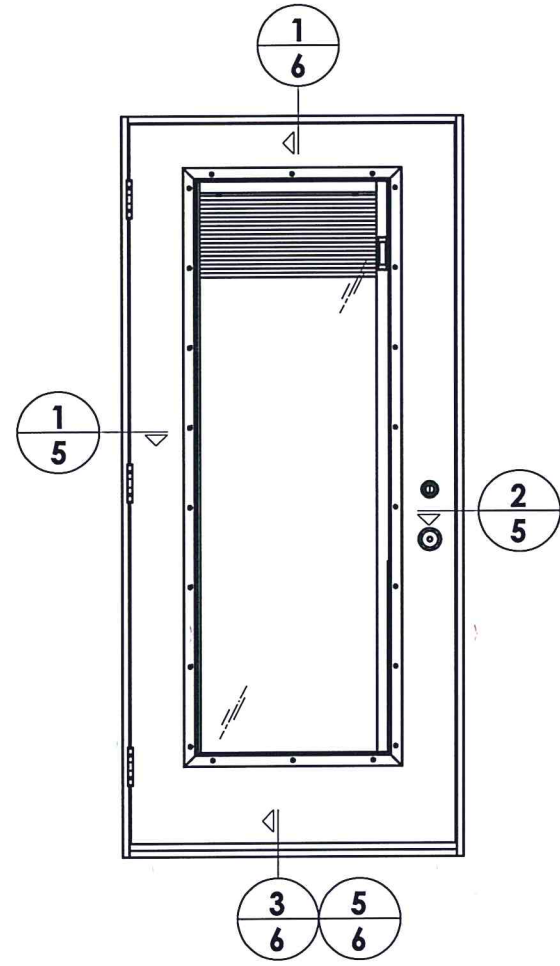


**ODL LITE FRAME (1/2\"/>**

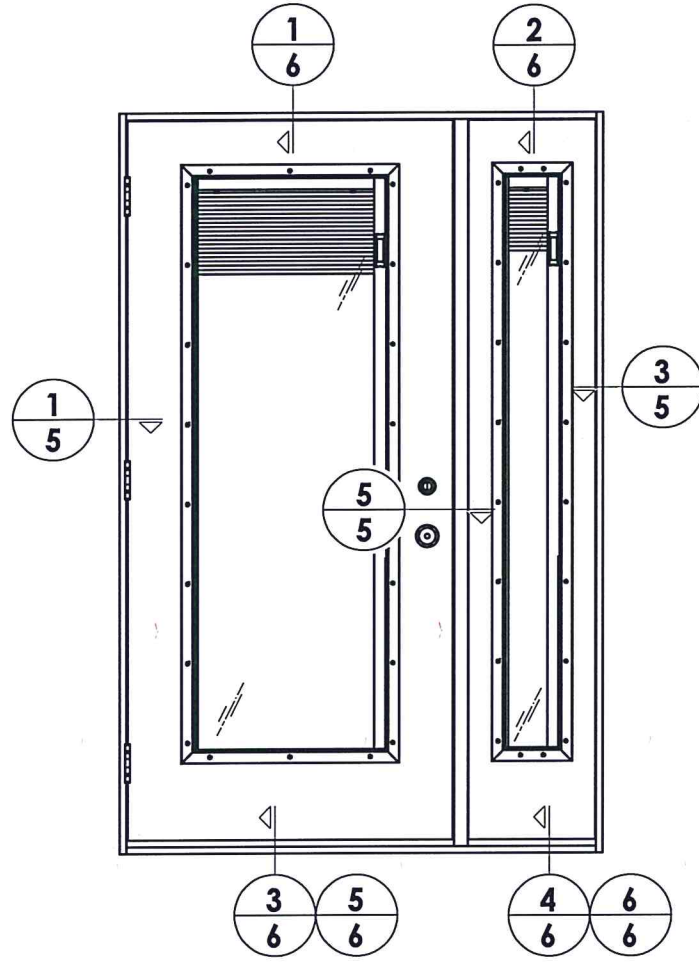
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1	6/06/18	LFS	CLARIFIED LOCK HARDWARE & REMOVED OUTSWING CONF.

DATE: 4/25/18  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4813  
SHEET 3 OF 8



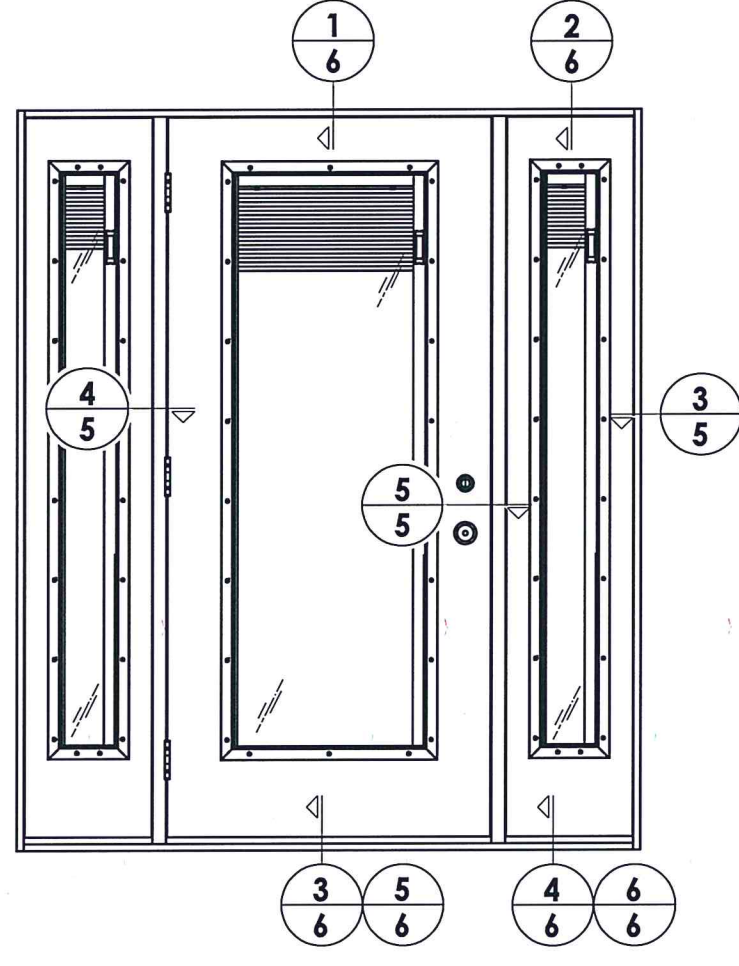


**X**



**XO/OX**

Continuous Head and Sill



**OXO**

Continuous Head and Sill



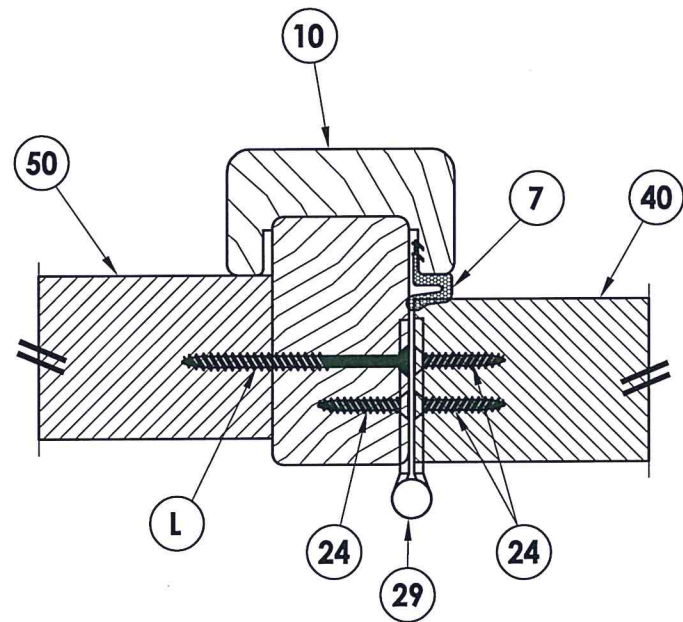
Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123

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

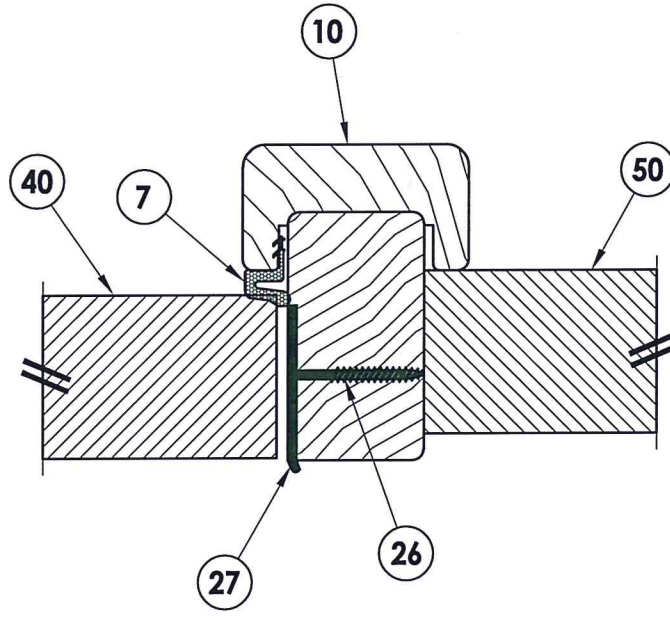
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NO.	DATE	REVISIONS	BY
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1	6/06/18	CLARIFIED LOCK HARDWARE & REMOVED OUTSWING CONF.	LFS

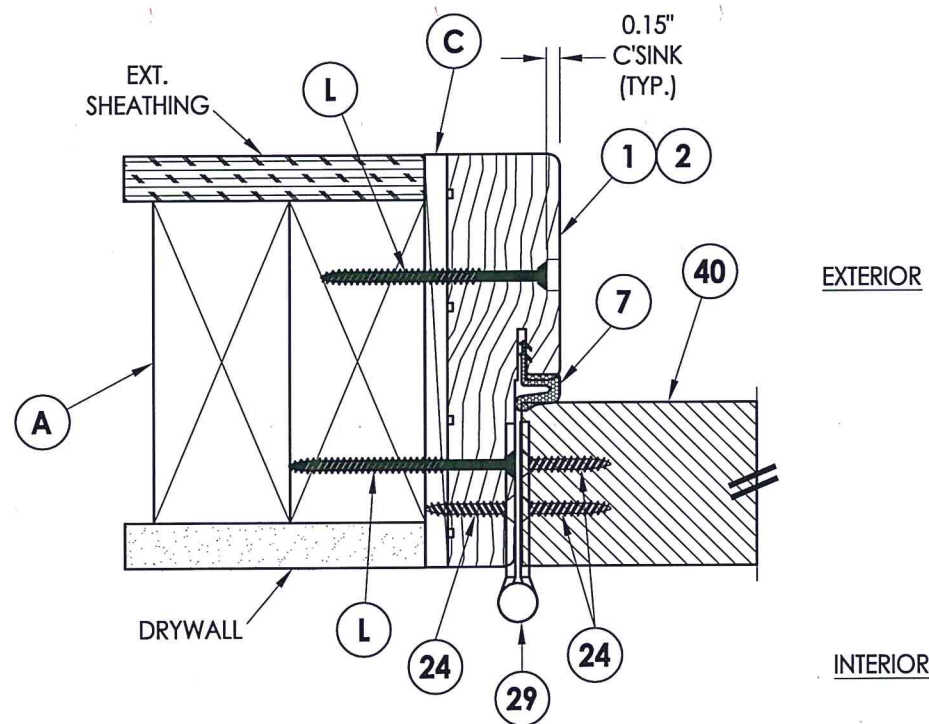
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SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4813  
SHEET 4 OF 8



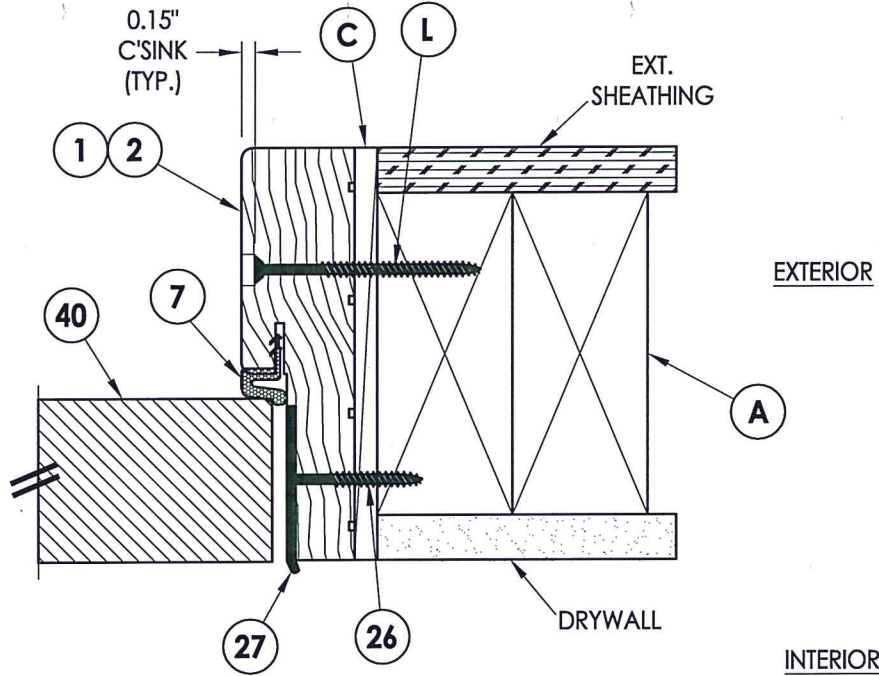
**4**  
**5** HORIZONTAL CROSS SECTION



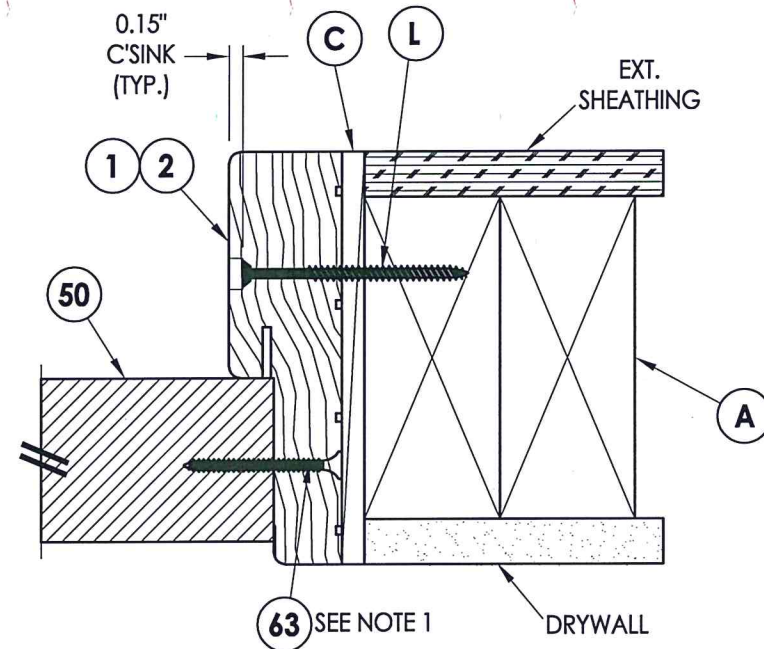
**5**  
**5** HORIZONTAL CROSS SECTION



**1**  
**5** HORIZONTAL CROSS SECTION

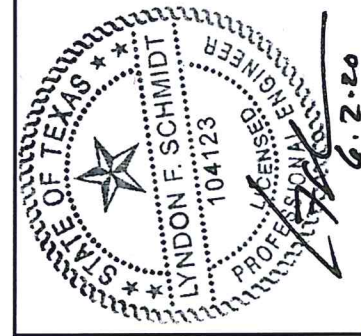


**2**  
**5** HORIZONTAL CROSS SECTION



**3**  
**5** HORIZONTAL CROSS SECTION

NOTE:  
1. Item #63 located 6" from each end plus 3 more equally spaced (5 total).



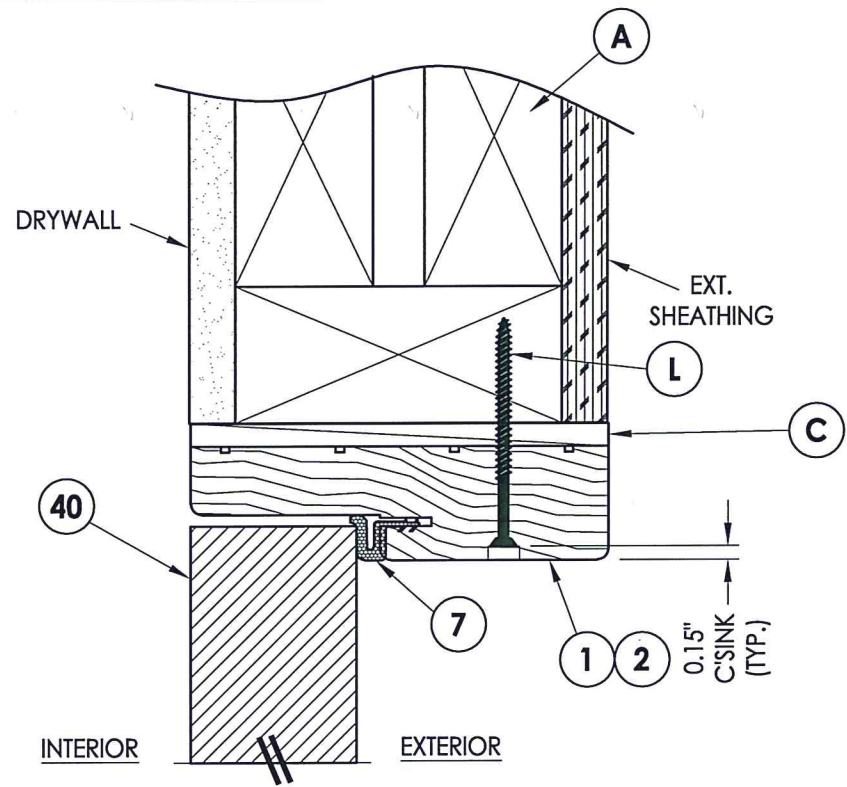
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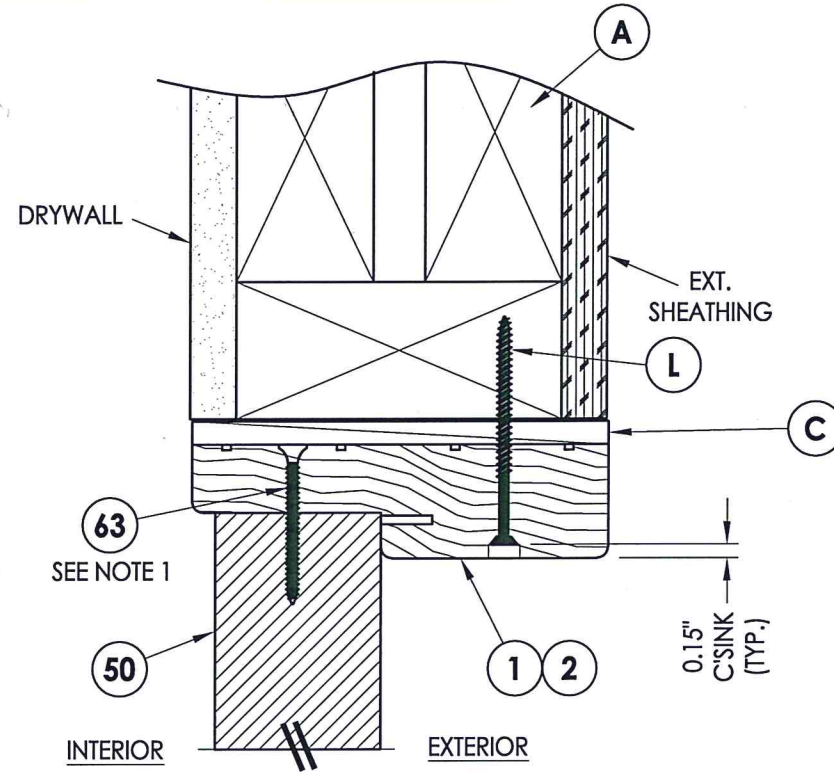
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: STEVES & SONS	
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
NO.	DATE
2	6/02/20
1	6/06/18
REVISIONS	
DATE: 4/25/18	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: TX-4813	
SHEET 5 OF 8	

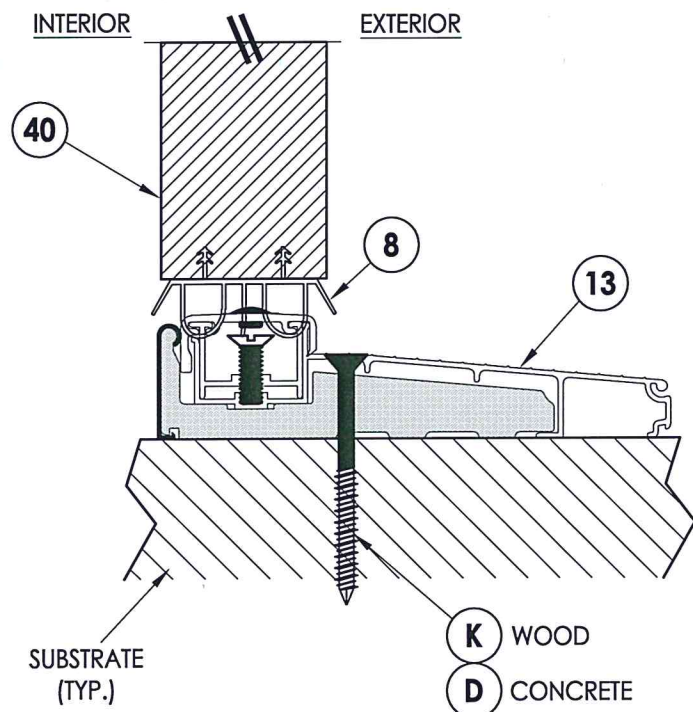




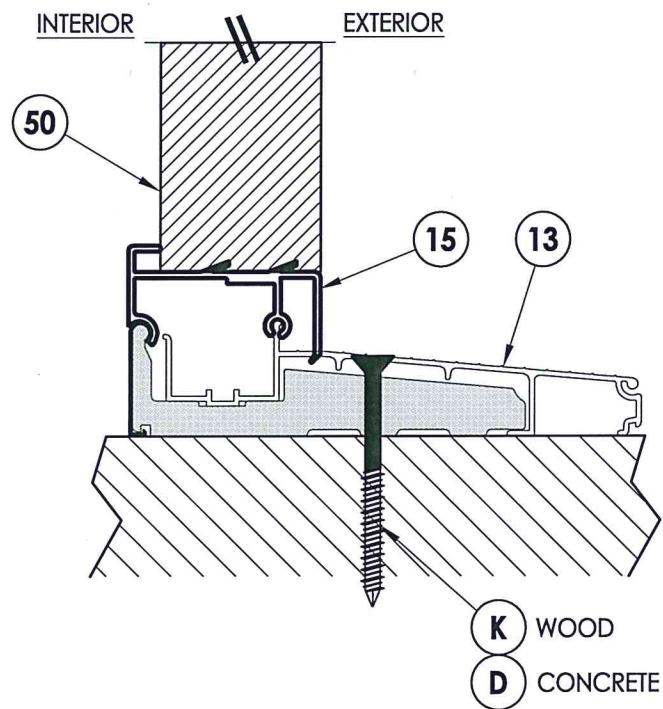
**1**  
**6** VERTICAL CROSS SECTION



**2**  
**6** VERTICAL CROSS SECTION



**3**  
**6** VERTICAL CROSS SECTION  
Inswing sill



**4**  
**6** VERTICAL CROSS SECTION  
Inswing sill



NOTE:  
1. Item #63 located 3" from each end (2 total).

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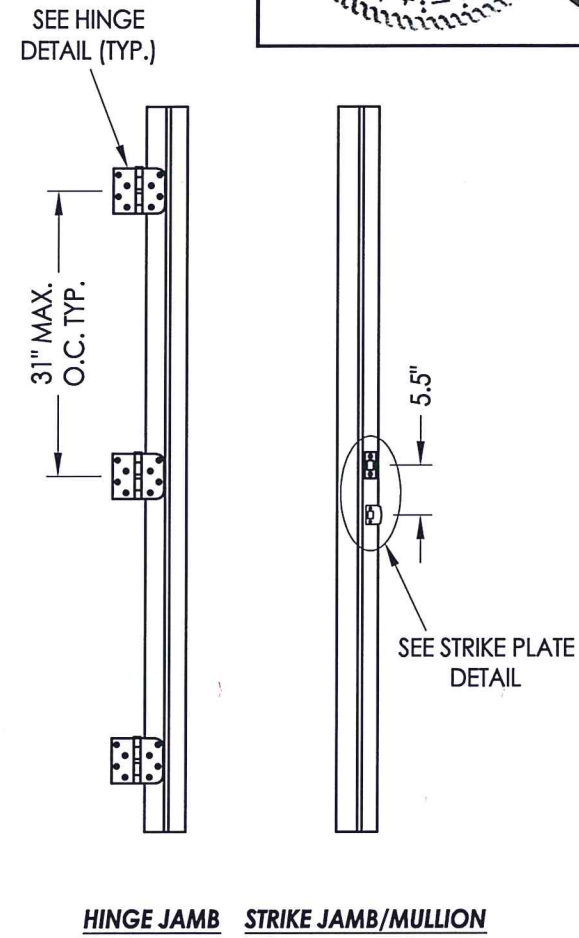
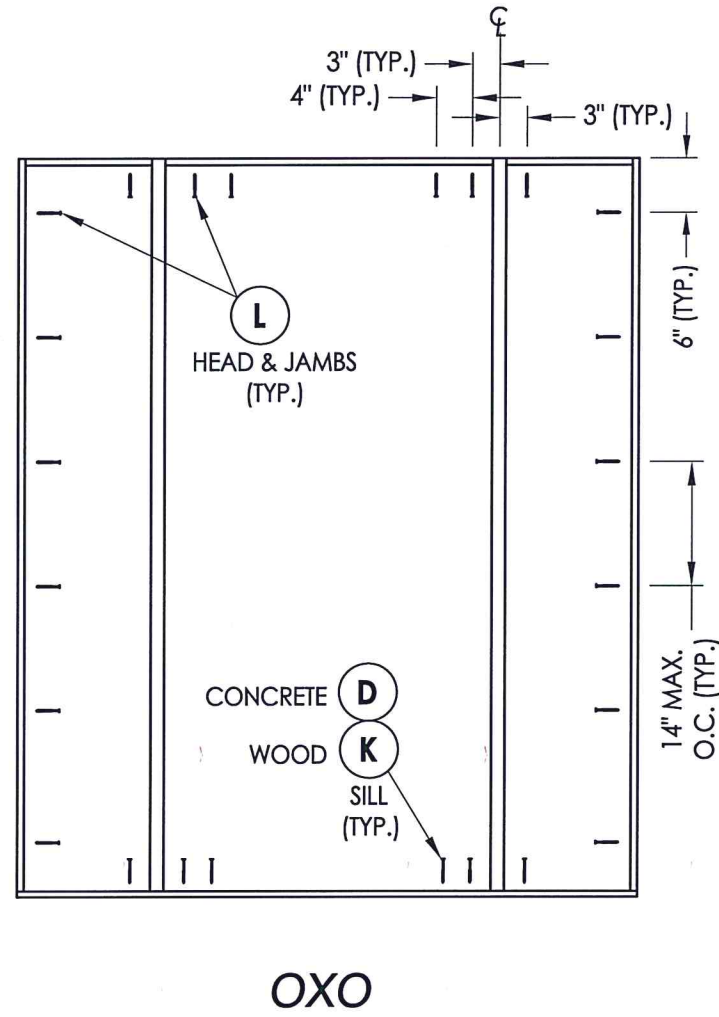
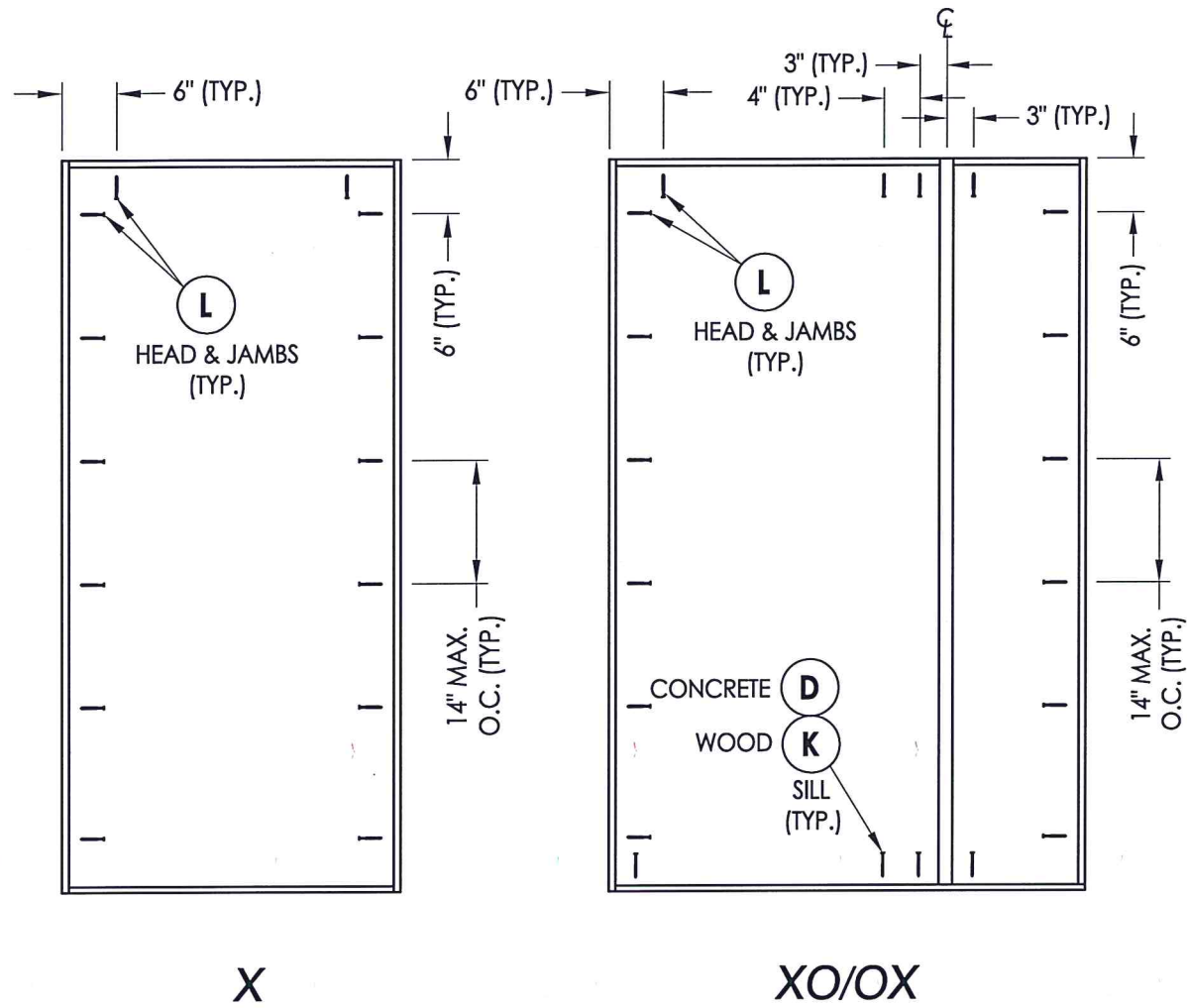
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: STEVES & SONS

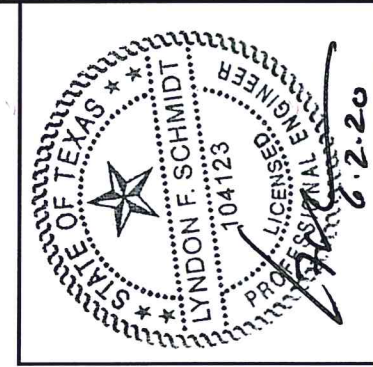
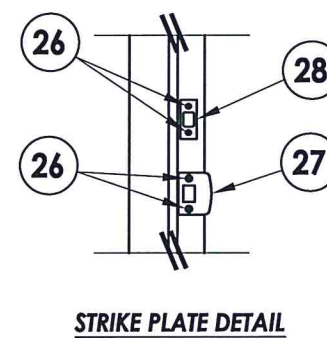
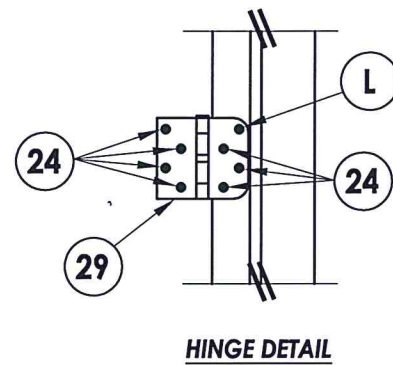
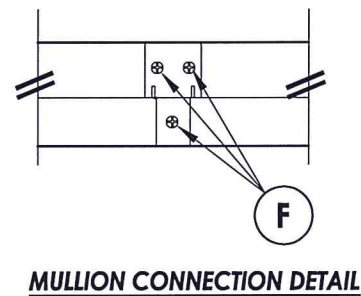
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
2	6/02/20	UPDATE TO 2018 IBC/IRC CODE	LFS
1	6/06/18	CLARIFIED LOCK HARDWARE & REMOVED OUTSWING CONF.	LFS

DATE: 4/25/18  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4813  
SHEET 6 OF 8



**FRAME ANCHORING**



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

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Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: STEVES & SONS

PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS	BY
2	6/02/20	UPDATE TO 2018 IBC/IRC CODE	LFS
1	6/06/18	CLARIFIED LOCK HARDWARE & REMOVED OUTSWING CONF.	LFS

DATE: 4/25/18  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4813  
SHEET 7 of 8



**BILL OF MATERIALS**

ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" Ø PFH ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
F	#8 X 2-1/2" PFH WS	STEEL
K	#10 PFH WS (1-3/4" MIN. EMBEDMENT)	STEEL
L	#10 X 2-1/2" PFH WS (1.15" MIN. EMBEDMENT)	STEEL
1	WOOD JAMB (FINGER-JOINT PINE - SG >= 0.42)	WOOD
2	COMPOSITE JAMB (WORLDWIDE 4EVER JAMB)	COMP
7	WEATHERSTRIP (Q-LON)	FOAM
8	DOOR BOTTOM SWEEP	PVC
10	INTEGRAL MULLION (PINE - SG >= 0.42)	WOOD
13	INSWING ADJUSTABLE THRESHOLD	ALUM/ COMP
15	INSWING SIDELITE SPACER	PVC
24	#10 X 1" PFH WS	STEEL
26	#8 X 1-1/2" PFH WS	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
40	DOOR PANEL	-
50	SIDELITE PANEL	-
63	#6 X 1-5/8" DRWALL SCREW	STEEL

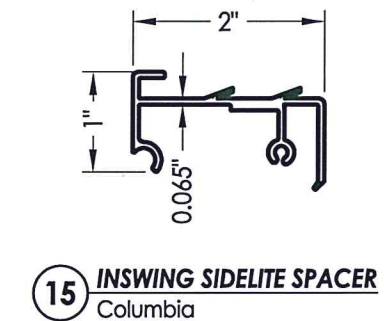
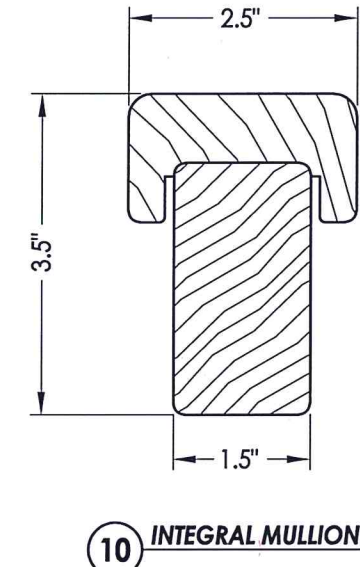
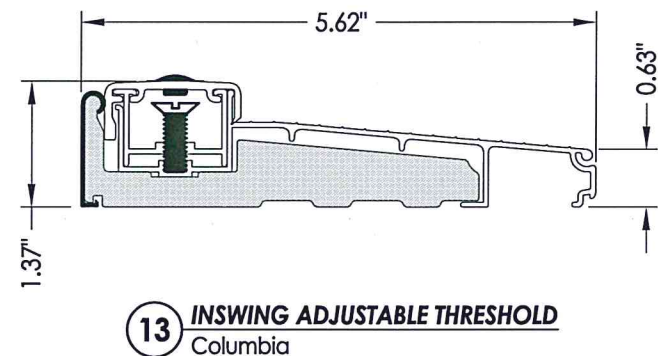
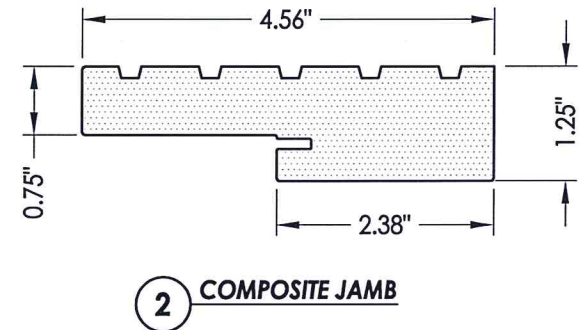
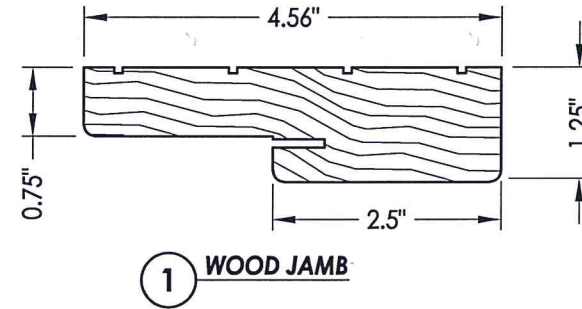
**CONCRETE ANCHOR NOTES:**

- 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"	1-3/4"	2"	4"
ELCO ULTRACON®	1/4"	1-3/4"	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.



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

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Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	STEVES & SONS		
PART OR ASSEMBLY:	BILL OF MATERIALS & COMPONENTS		
NO.	DATE	BY	REVISIONS
2	6/02/20	LFS	UPDATE TO 2018 IBC/IRC CODE
1	6/06/18	LFS	CLARIFIED LOCK HARDWARE & REMOVED OUTSWING CONF.
DATE: 4/25/18			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4813			
SHEET 8 OF 8			