

WINDSERT™

Operational Window Insert

Utilizing

A Fiberglass Door Panel

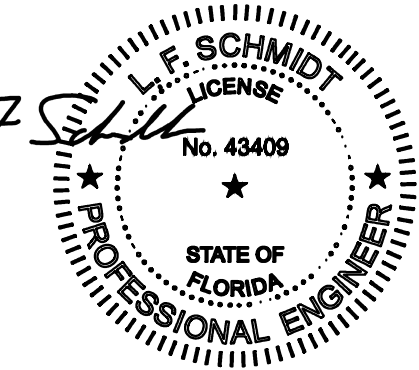
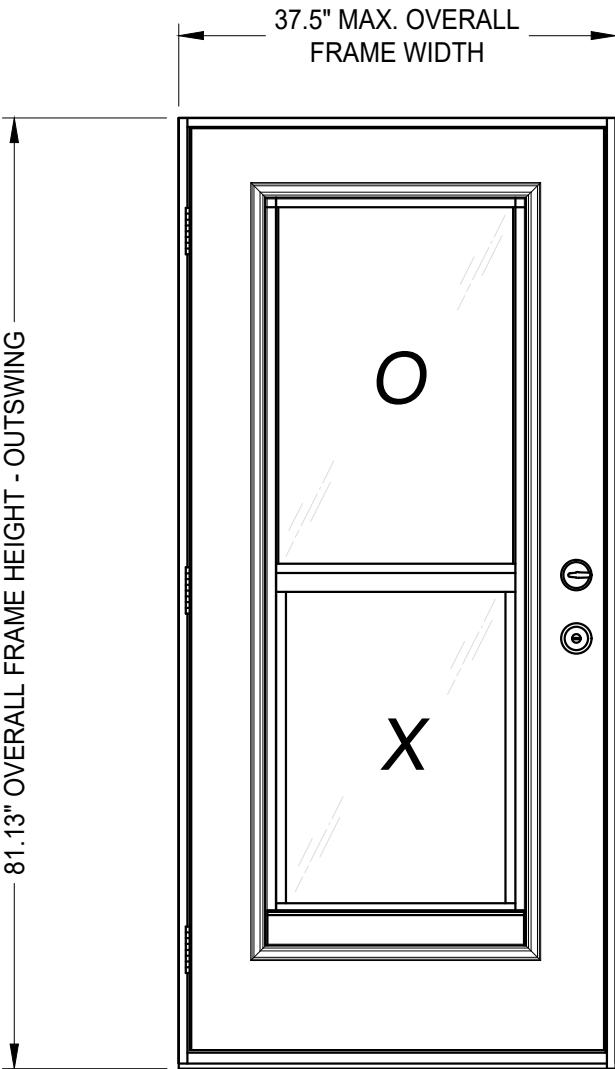
OUTSWING

"IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements 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 Florida Building Code 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 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 water infiltration requirements for "HVHZ".

TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevation, design pressures, & general notes
2	Door panel details
3	Lite frame details and glazing details
4	Horizontal cross sections
5	Vertical cross sections
6	Buck and frame anchoring
7	Bill of materials and components



Digitally signed by Lyndon F Schmidt
Date: 2023.08.09 12:38:28 -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

MAX. FRAME DIMENSION	MAX. D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
37.5" x 81.13"	20" x 29.13"	+60.0	-65.0

NOTE: See Sheet 2 for Hardware Design Pressure Limitations

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

DLP
WINDSERT

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

6

8/09/23

UPDATE TO 8TH ED. (2023)

FBC

5

8/31/20

UPDATE TO 7TH ED. (2020)

FBC

4

8/16/17

UPDATE TO 6TH ED. (2017)

FBC

3

9/14/15

REVISED WINDSERT COMPONENTS

2

3/28/15

UPDATE TO 5TH ED. (2014)

FBC

1

9/28/11

UPDATED TO 2010 FBC

NO.

DATE

BY

REVISIONS

DATE: 8/29/11

SCALE: N.T.S.

DWG. BY: JK

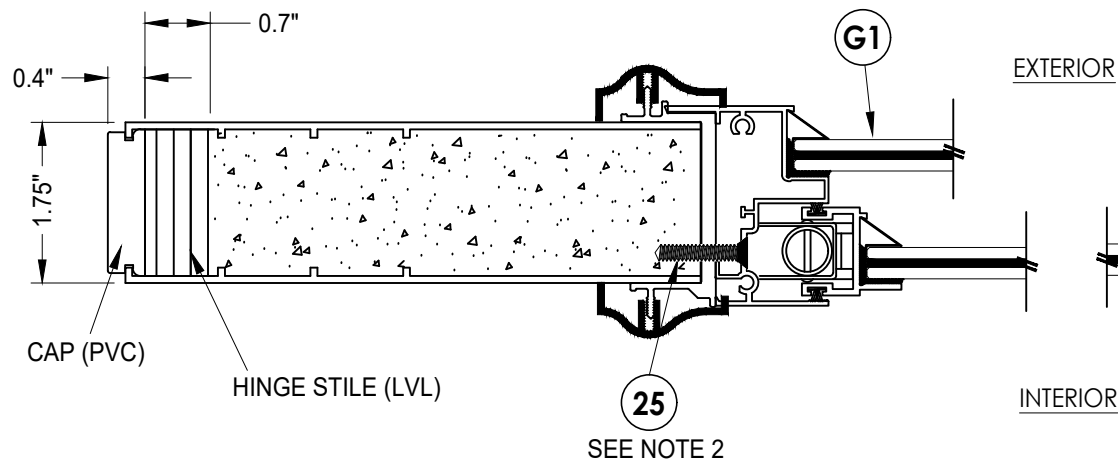
CHK. BY: LFS

DRAWING NO.: FL-14803.4

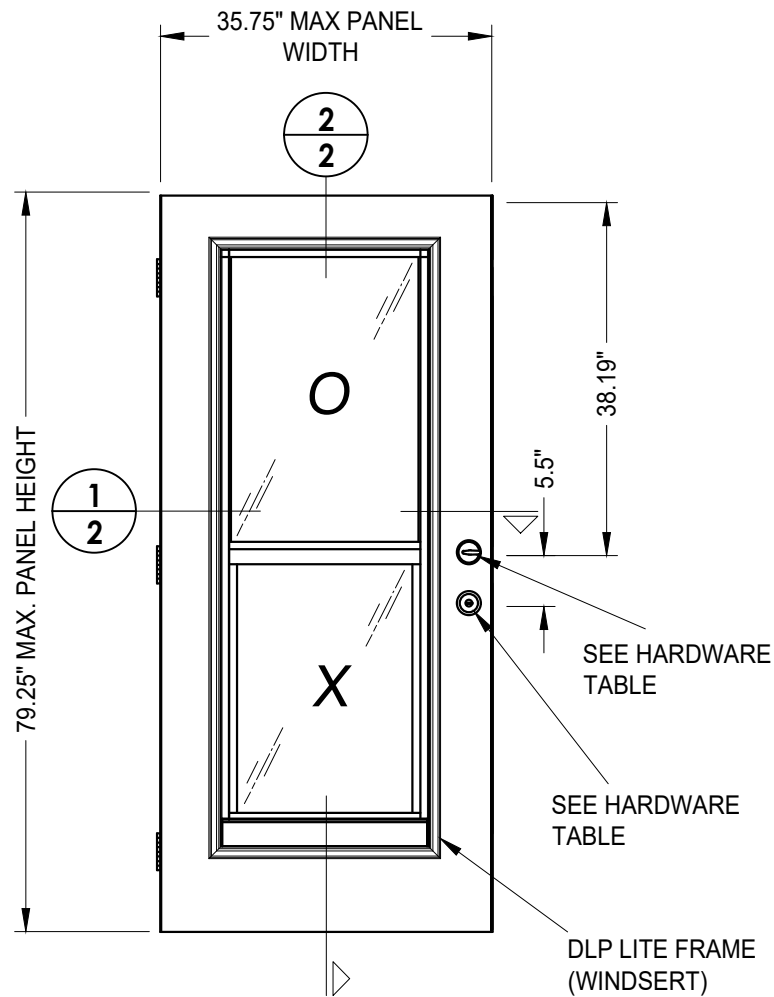
SHEET 1 OF 7

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

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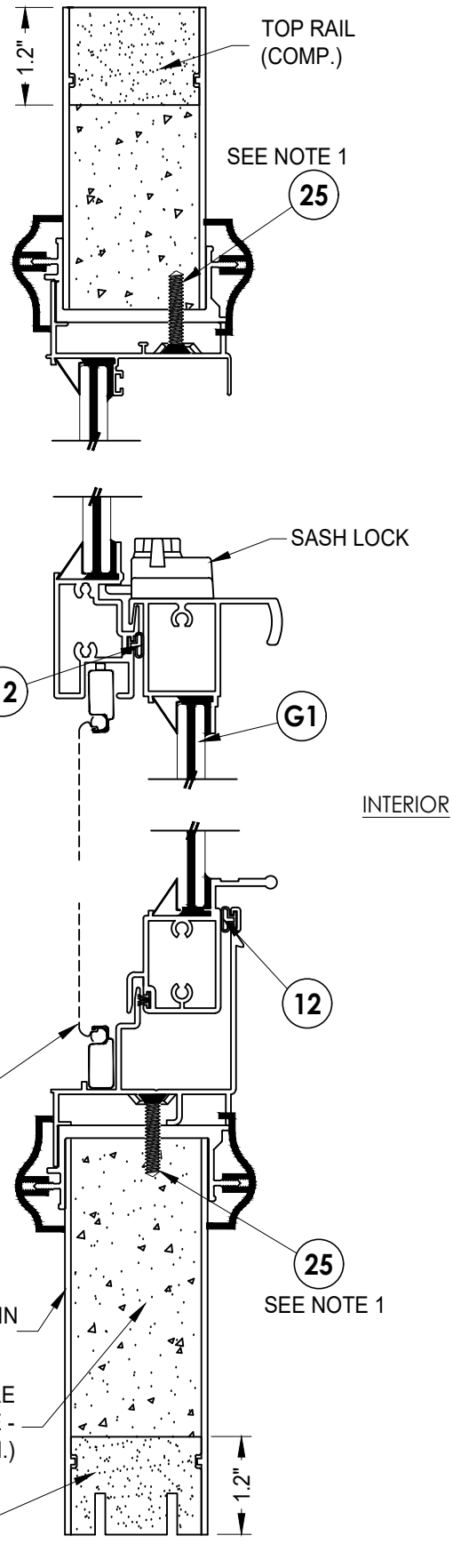
1
2 **HORIZONTAL CROSS SECTION**



40 **DOOR PANEL**
Plastpro

HARDWARE TABLE			
MANUFACTURER	MODEL		MAX. DESIGN PRESSURE
KWIKSET	Knob:	Kwikset Series	+50/-55 PSF
	Deadbolt:	Kwikset Series (660)	
Yale	Lever:	YH Collection	+50/-55 PSF
	Deadbolt:	New Traditions (800 Series)	
Schlage	Knob:	F-Series	+50/-55 PSF
	Deadbolt:	B60 / 62	
Yale	Knob:	YH Collection	+60/-65 PSF
	Deadbolt:	YH 83	

- NOTES:
- SMS Screw spacing at head and sill:
5" from each end & one at centerline (3 total).
 - SMS Screw spacing at jambs:
5" from each end & spaced @ 8 - 11" o.c. (7 total).



2
2 **VERTICAL CROSS SECTION**

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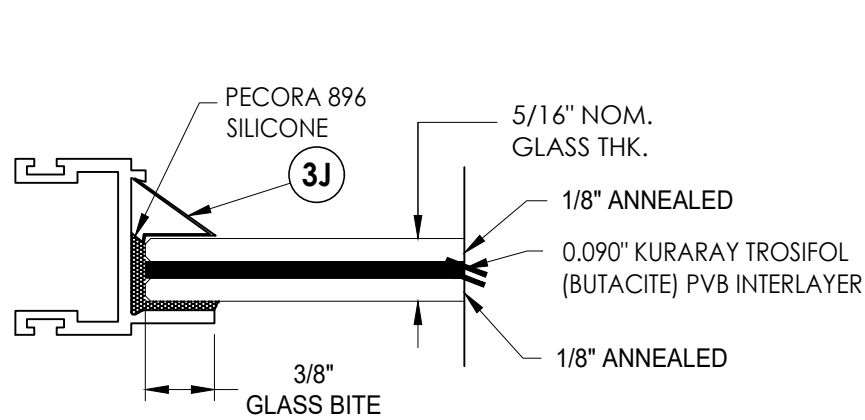
R^W BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
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PRODUCT:	DLP WINDSERT	
	PART OR ASSEMBLY: DOOR PANEL DETAILS	

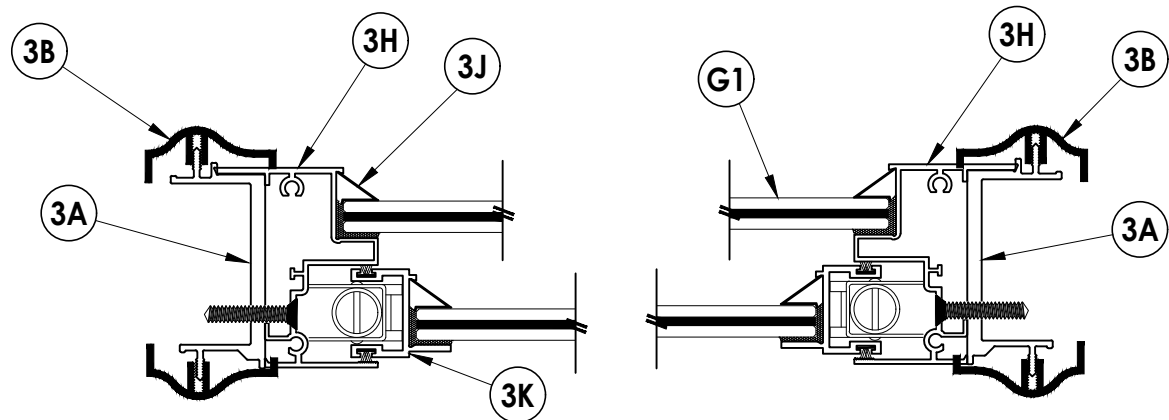
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3	9/14/15	REVISED WINDSERT COMPONENTS						
2	3/18/15	UPDATE TO 5TH ED. (2014)	FBC					
1	9/28/11	UPDATED TO 2010 FBC						

DATE:	8/29/11
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-14803.4
SHEET	2 OF 7

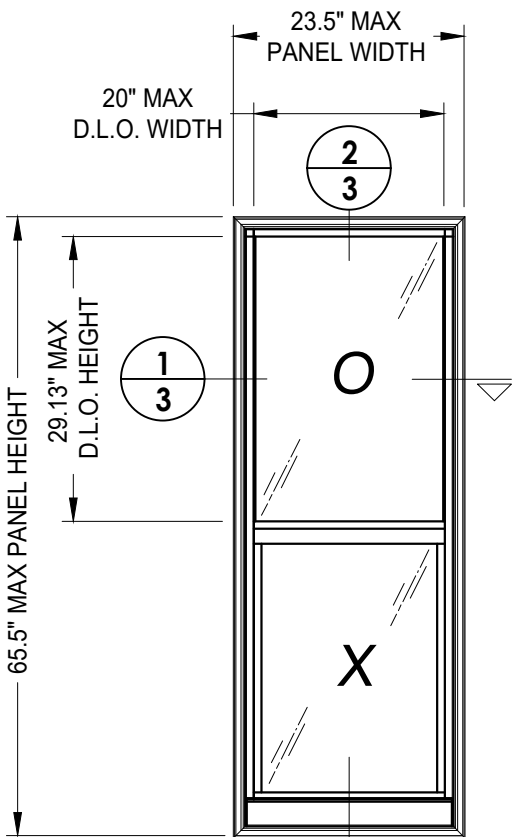
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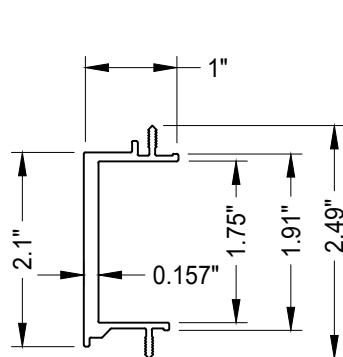
G1 GLAZING DETAIL



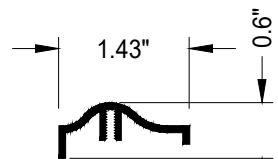
1/3 HORIZONTAL CROSS SECTION



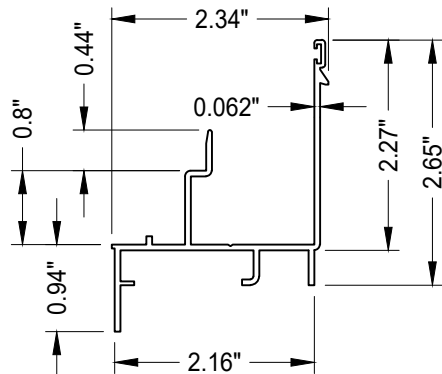
**DLP LITE FRAME
WINDSERT**



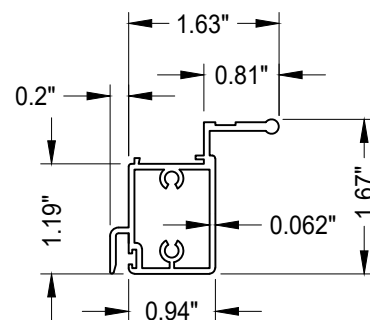
3A MOUNTING CHANNEL
ALUM (6063-T6)



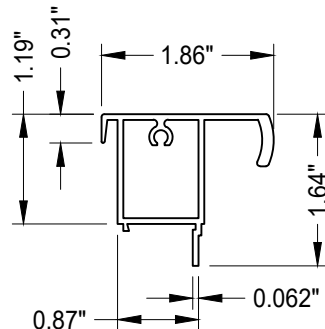
3B DECORATIVE TRIM
PVC



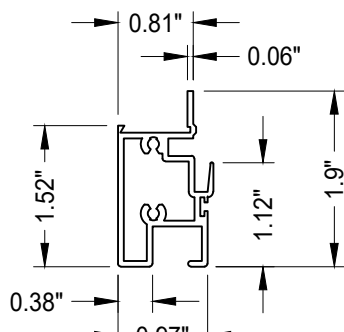
3C FRAME SILL
ALUM (6063-T6)



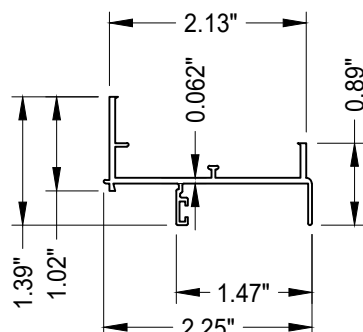
3D VENT BOTTOM RAIL
ALUM (6063-T6)



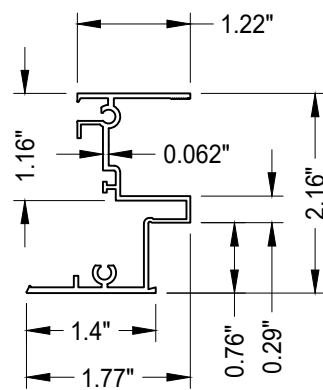
3E VENT TOP RAIL
ALUM (6063-T6)



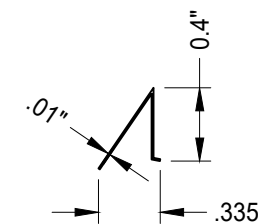
3F MEETING RAIL
ALUM (6063-T6)



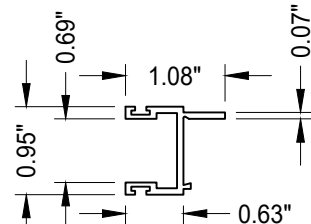
3G FRAME HEAD
ALUM (6063-T6)



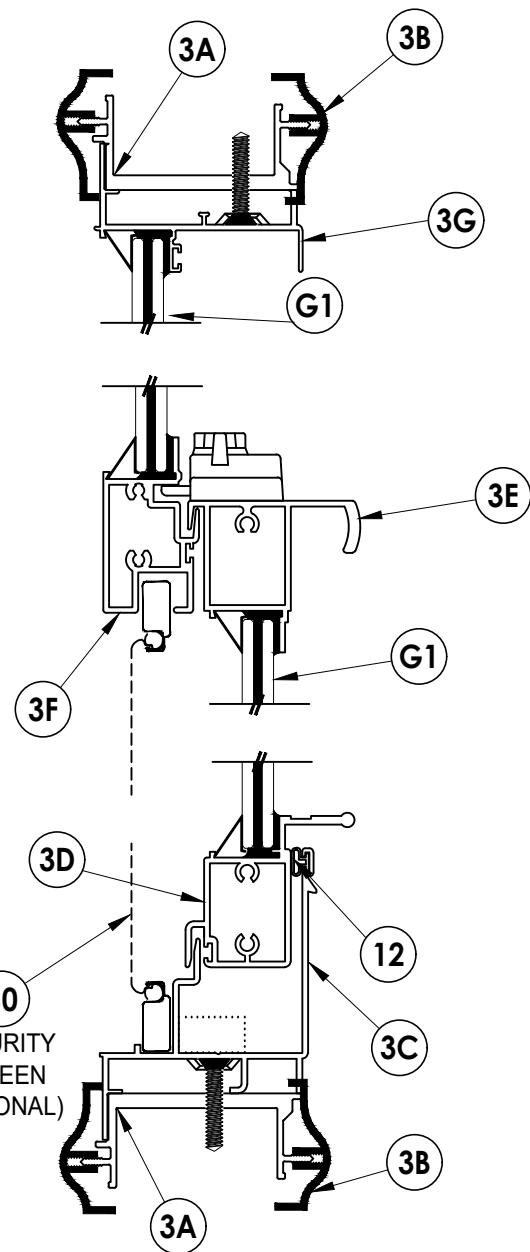
3H FRAME JAMB
ALUM (6063-T6)



3J GLAZING BEAD
ALUM



3K VENT JAMB
ALUM (6063-T6)



2/3 VERTICAL CROSS SECTION

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P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
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FBPE Registry No. 9813

PRODUCT:
DLP
WINDSERT
PART OR ASSEMBLY:
LITE FRAME DETAILS
AND GLAZING DETAILS

NO.	DATE	REVISIONS					
		LFS	JK	JK	LFS	BY	
6	8/09/23	UPDATE TO 8TH ED. (2023) FBC					
5	8/31/20	UPDATE TO 7TH ED. (2020) FBC					
4	8/16/17	UPDATE TO 6TH ED. (2017) FBC					
3	9/14/15	REVISED WINDSERT COMPONENTS					
2	3/18/15	UPDATE TO 5TH ED. (2014) FBC					
1	9/28/11	UPDATED TO 2010 FBC					

DATE: 8/29/11

SCALE: N.T.S.

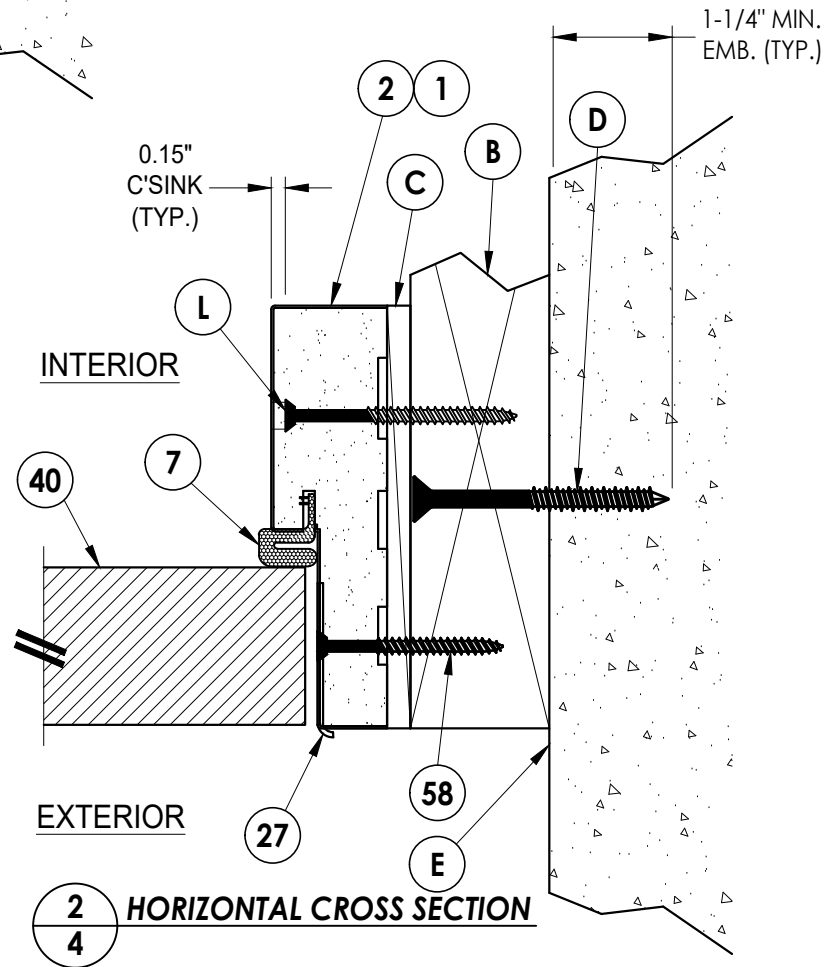
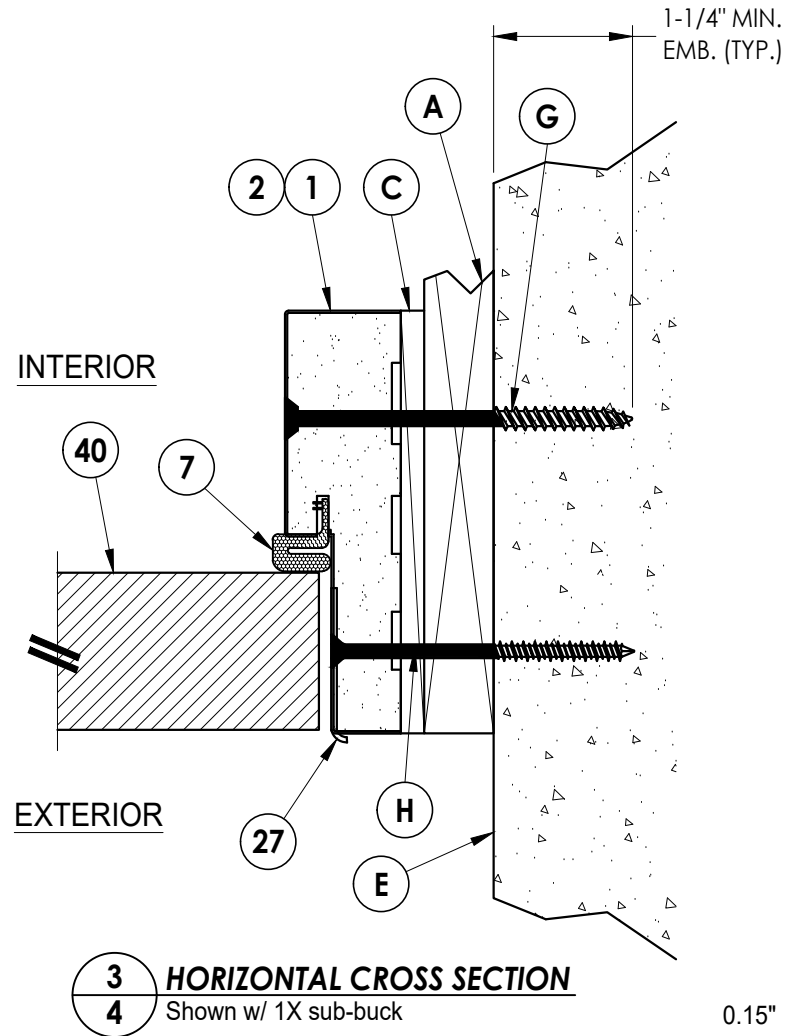
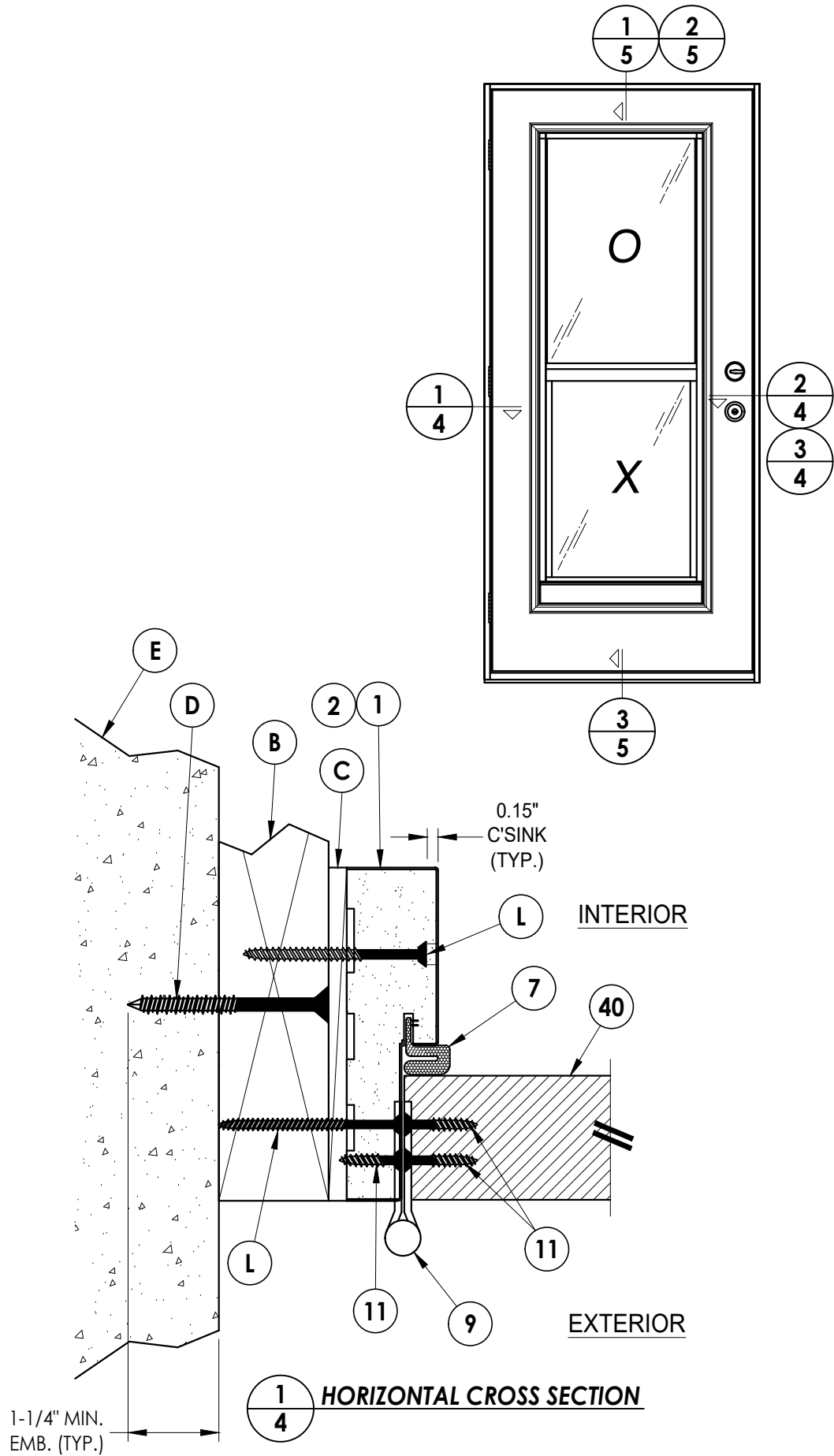
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CHK. BY: LFS

DRAWING NO.: FL-14803.4

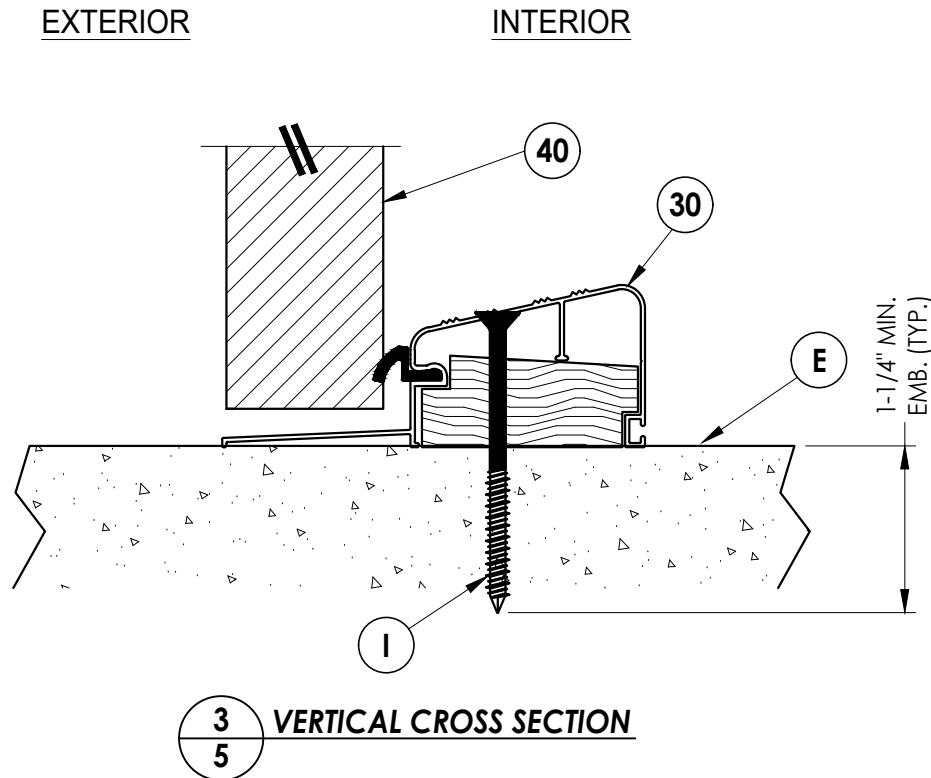
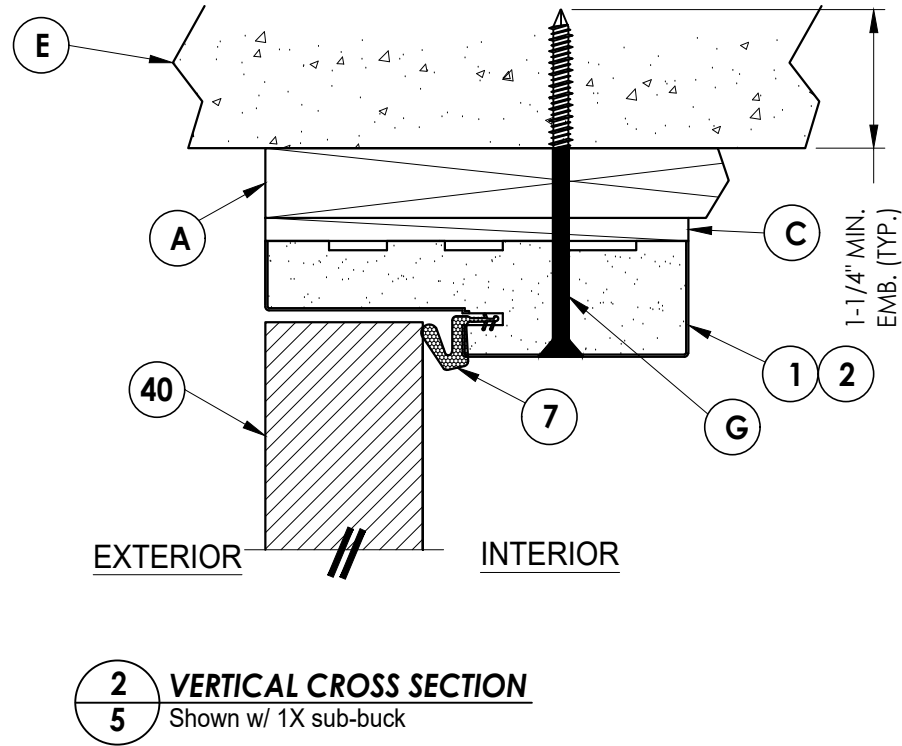
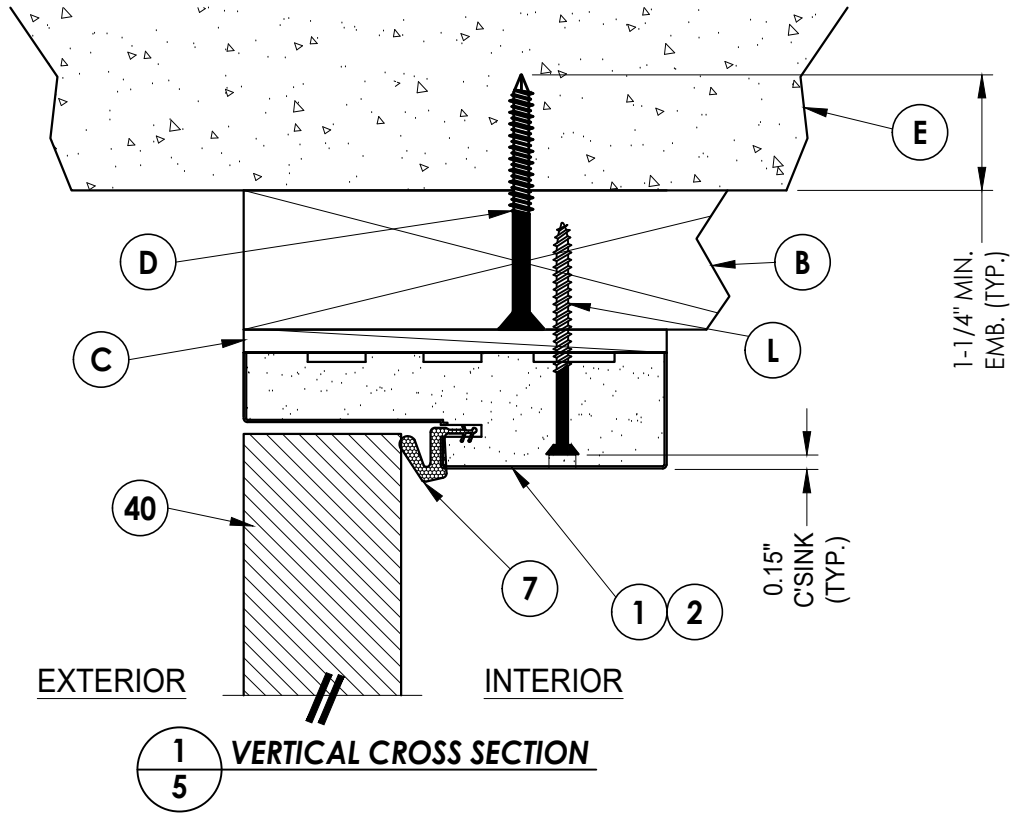
SHEET 3 OF 7

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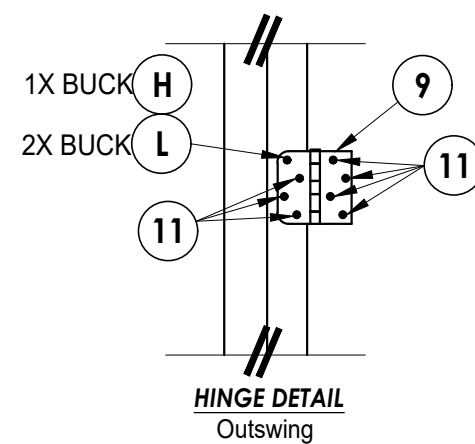
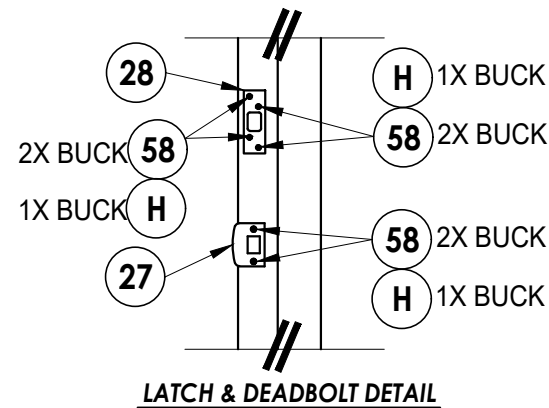
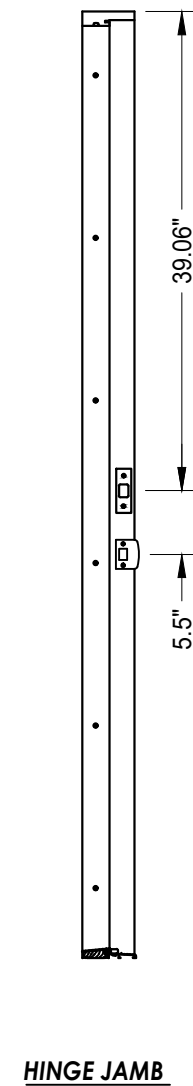
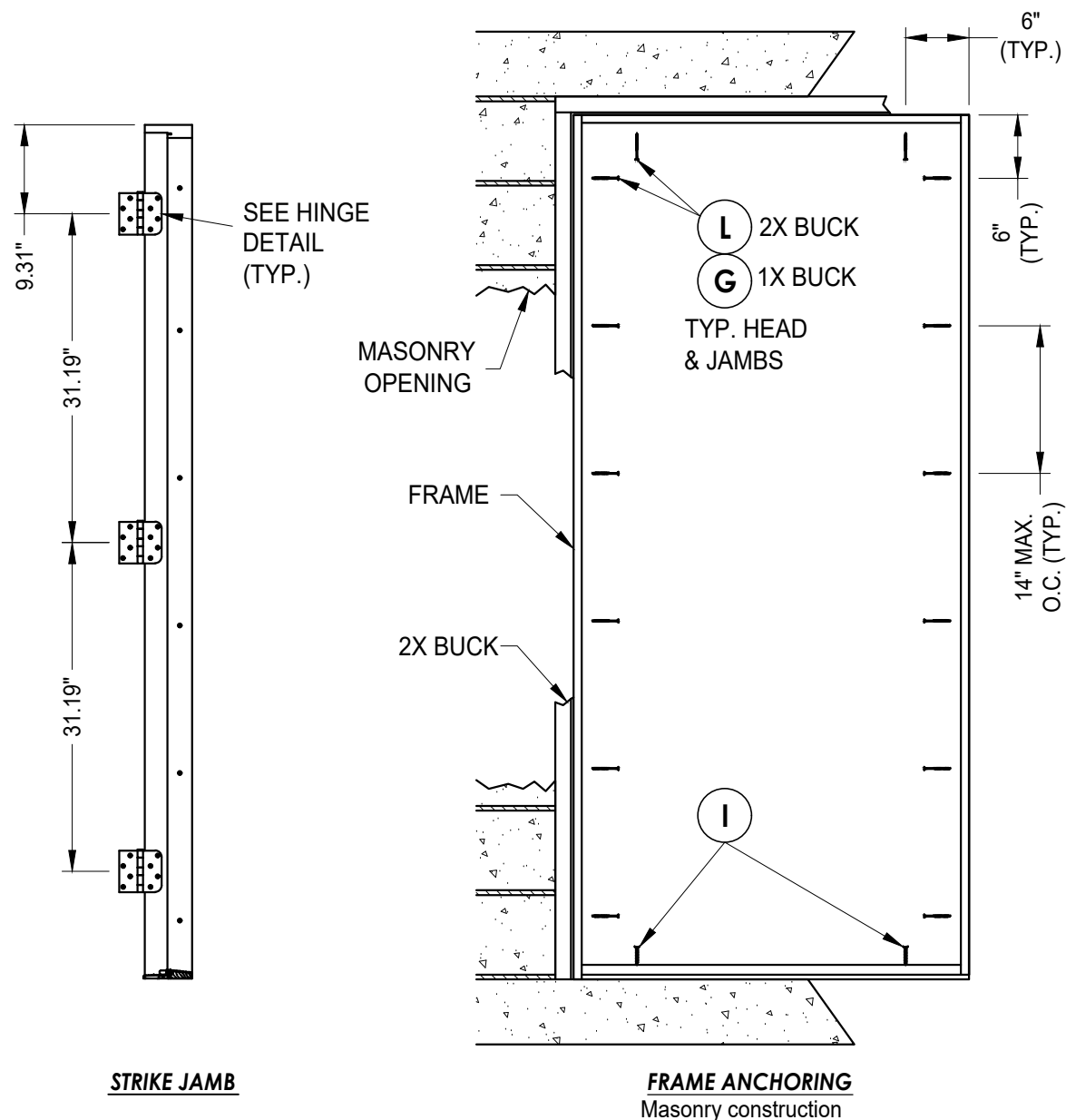
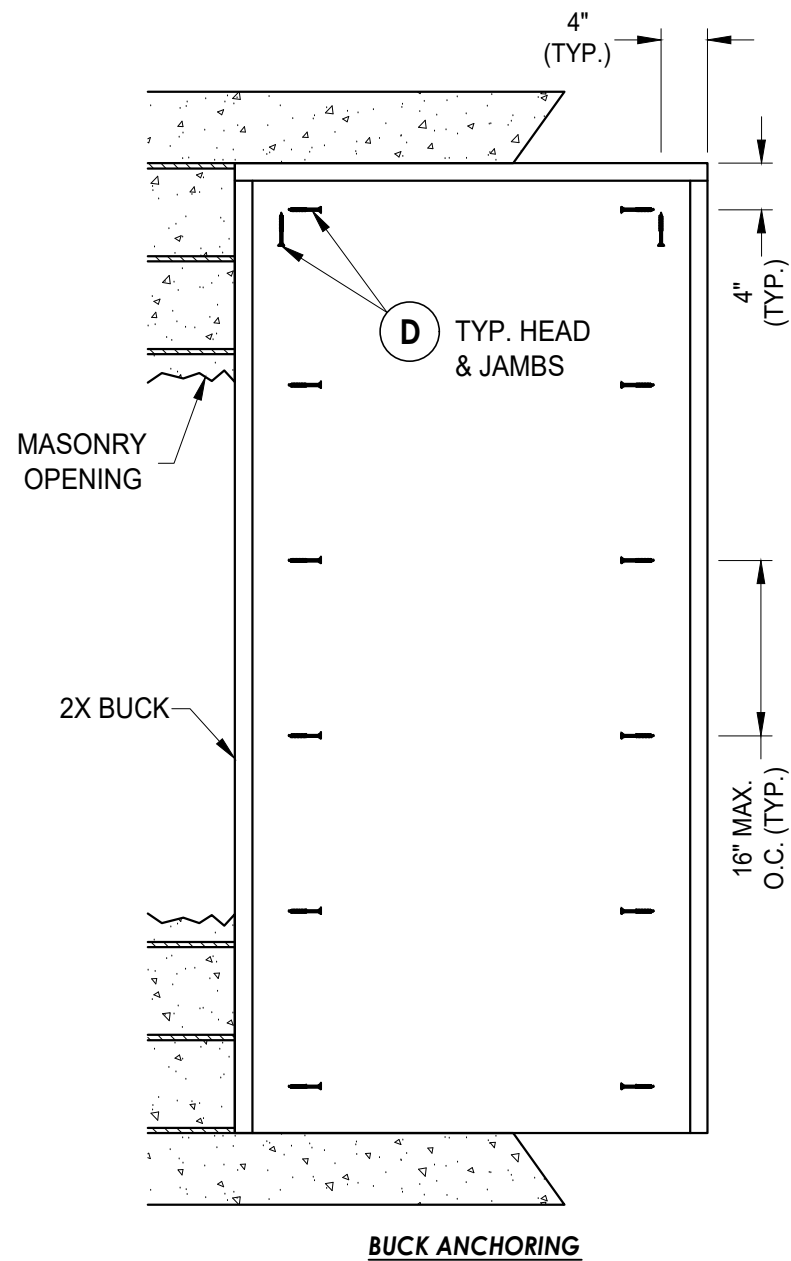


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DLP WINDSERT		HORIZONTAL CROSS SECTIONS	
PRODUCT:		REVISIONS	
LFS	8/09/23	UPDATE TO 8TH ED. (2023)	FBC
LFS	8/31/20	UPDATE TO 7TH ED. (2020)	FBC
JK	8/16/17	UPDATE TO 6TH ED. (2017)	FBC
JK	9/14/15	REVISED WINDSERT COMPONENTS	
JK	3/28/15	UPDATE TO 5TH ED. (2014)	FBC
LFS	9/28/11	UPDATED TO 2010 FBC	
BY	DATE		
DATE: 8/29/11		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-14803.4		SHEET 4 OF 7	

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PRODUCT: DLP WINDSERT		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	
LFS	8/09/23	UPDATE TO 8TH ED. (2023) FBC	LFS
LFS	8/31/20	UPDATE TO 7TH ED. (2020) FBC	LFS
JK	8/16/17	UPDATE TO 6TH ED. (2017) FBC	JK
JK	9/14/15	REVISED WINDSERT COMPONENTS	JK
JK	3/28/15	UPDATE TO 5TH ED. (2014) FBC	JK
LFS	9/28/11	UPDATED TO 2010 FBC	LFS
BY	DATE		
REVISIONS			
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SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-14803.4			
SHEET 5 OF 7			



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"	3"	1-1/2"

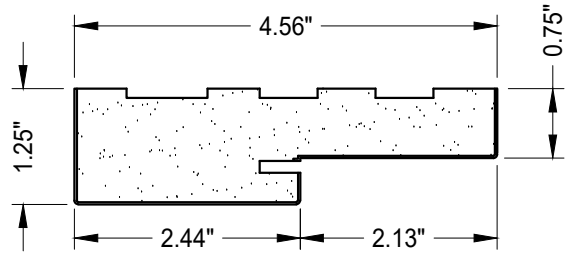
WOOD SCREW INSTALLATION NOTES:

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

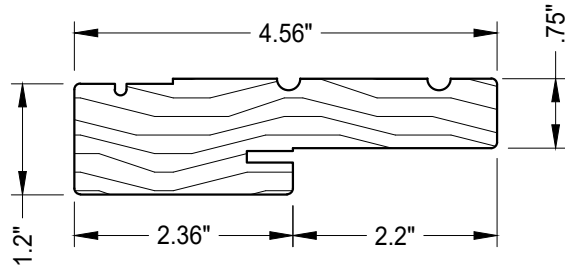
SHEET <u>6</u> OF <u>7</u>		DRAWING NO.: <u>FL-14803.4</u>		CHK. BY: <u>LFS</u>		DWG. BY: <u>JK</u>		SCALE: <u>N.T.S.</u>		DATE: <u>8/29/11</u>		<table><tr><td>NO.</td><td>DATE</td><td colspan="2">REVISIONS</td></tr><tr><td>1</td><td>9/28/11</td><td colspan="2">UPDATED TO 2010 FBC</td></tr><tr><td>2</td><td>3/28/15</td><td colspan="2">UPDATED TO 5TH ED. (2014) FBC</td></tr><tr><td>3</td><td>9/14/15</td><td colspan="2">REVISED WINDSERT COMPONENTS</td></tr><tr><td>4</td><td>8/16/17</td><td colspan="2">UPDATED TO 6TH ED. (2017) FBC</td></tr><tr><td>5</td><td>8/31/20</td><td colspan="2">UPDATED TO 7TH ED. (2020) FBC</td></tr><tr><td>6</td><td>8/09/23</td><td colspan="2">UPDATED TO 8TH ED. (2023) FBC</td></tr></table>		NO.	DATE	REVISIONS		1	9/28/11	UPDATED TO 2010 FBC		2	3/28/15	UPDATED TO 5TH ED. (2014) FBC		3	9/14/15	REVISED WINDSERT COMPONENTS		4	8/16/17	UPDATED TO 6TH ED. (2017) FBC		5	8/31/20	UPDATED TO 7TH ED. (2020) FBC		6	8/09/23	UPDATED TO 8TH ED. (2023) FBC	
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Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409						<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813																																			

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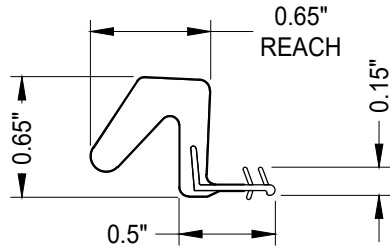
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
G	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
H	3/16" x 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
I	1/4" X 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
L	#8 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMB.)	STEEL
1	POLY FIBER JAMB	COMP. / VINYL
2	FINGER JOINTED PINE FRAME	WOOD
7	WEATHERSTRIP	FOAM
9	4" X 4" BUTT HINGE	STEEL
11	#9 X 3/4" PFH WOOD SCREW	STEEL
12	BULB VINYL WEATHERSTRIP	VINYL
25	#12 X 1" PFH SELF DRILLING SMS	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE (SECURITY)	STEEL
30	OUTSWING THRESHOLD	ALUM/WOOD
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
58	#8 X 2" PFH WS	STEEL
60	SECURITY SCREEN (ALUM 6063-T6) - OPTIONAL	ALUM / SS



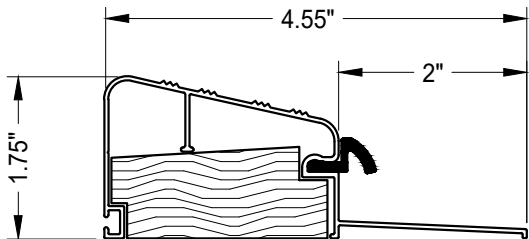
1 POLY FIBER JAMB
Plastpro



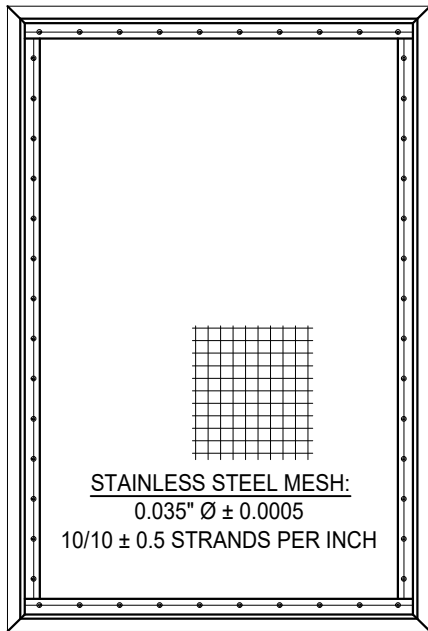
2 WOOD JAMB



7 WEATHERSTRIP
Endura Force 5



30 OUTSWING THRESHOLD
DLP (QOSR)



60 SECURITY SCREEN
ALUM (6063-T6)

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FBPE Registry No. 9813

PRODUCT:

DLP
WINDSERT

PART OR ASSEMBLY:

BILL OF MATERIALS AND
COMPONENTS

NO.	DATE	REVISIONS
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DRAWING NO.:

FL-14803.4

SHEET 7 OF 7