



STEVE'S AND SONS

203 Humble Ave.
San Antonio, TX 78225

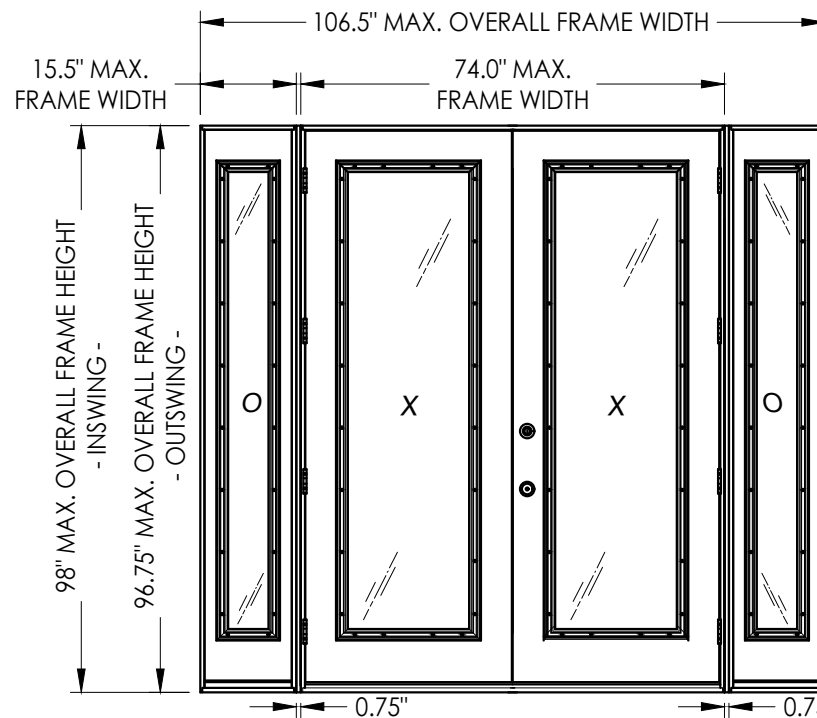
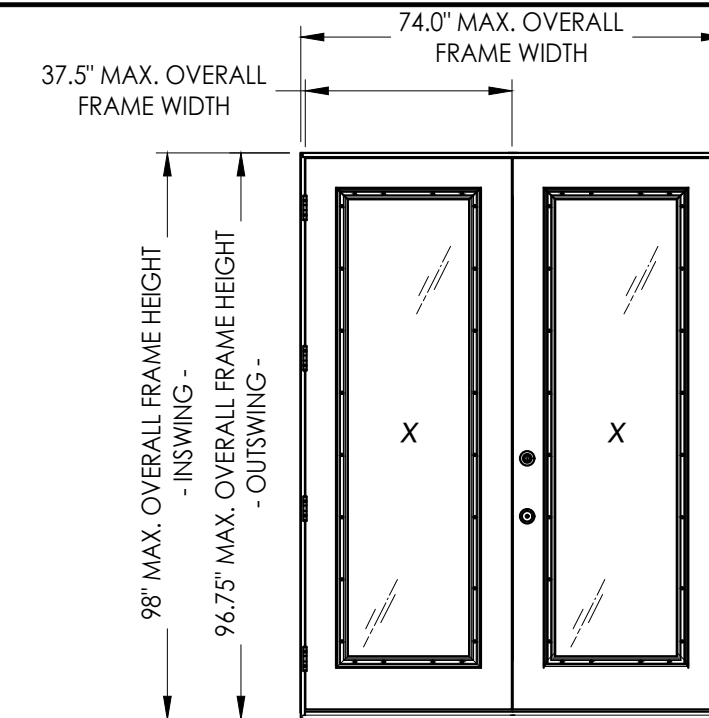
GLAZED FIBERGLASS DOUBLE DOOR w/ or w/o SIDELITES INSWING / OUTSWING "NON-IMPACT"

GENERAL NOTES

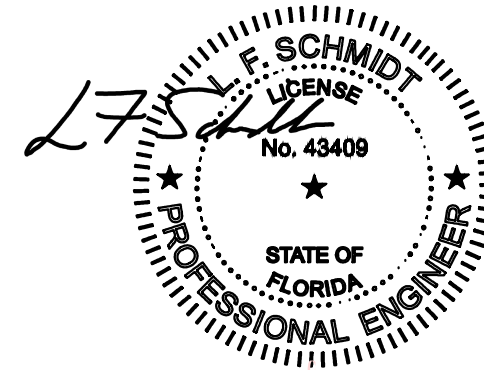
- This product anchoring drawing has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) excluding the "High Velocity Hurricane Zone" (HVHZ). See the Certification Agency Certificate for sizes, specifications & ratings.
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- When used in areas requiring wind borne debris protection, this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2..
- For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details
3	Sidelite panel details
4	Horizontal Cross Sections
5	Vertical cross sections
6	Vertical cross sections
7	Buck & frame anchoring (XX)
8	Buck & frame anchoring (OXXO)
9	Astragal details
10	Glazing details & components
11	Bill of materials



CONFIGURATION	MAX. FRAME DIMENSION	MAX. D.L.O. DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX	74.0" x 98.0"	21.0" x 79.87"	+45.0	-45.0	+45.0	+45.0
OXXO	106.5" x 98.0"	21.0" x 79.87"	+45.0	-45.0	+45.0	+45.0



Digitally signed by Lyndon F Schmidt
Date: 2026.07.07 14:36:45 -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

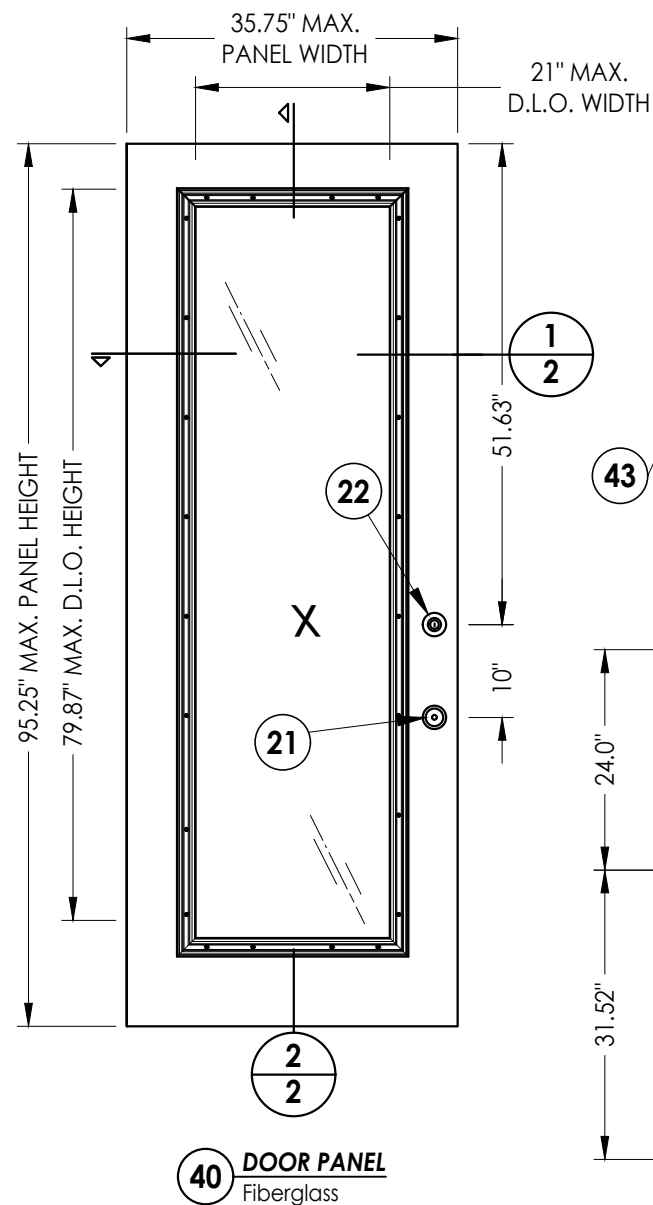
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

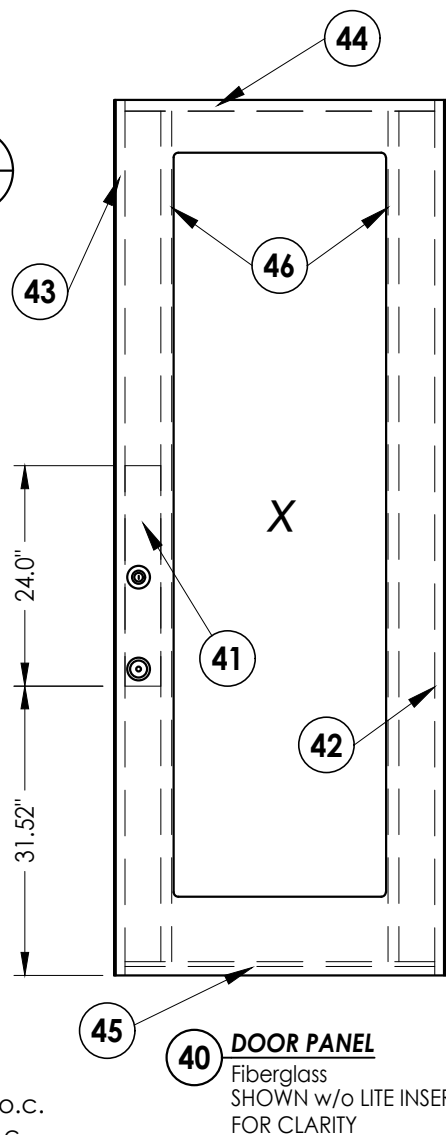
PRODUCT: STEVE'S AND SONS
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

NO.	DATE	BY	REVISIONS			
			DATE	BY	DESCRIPTION	REVISIONS
4	7/01/26	LFS	UPDATE TO 9TH ED.	(2026)	FBC	
3	8/02/23	LFS	UPDATE TO 8TH ED.	(2023)	FBC	
2	9/10/20	LFS	UPDATE TO 7TH ED.	(2020)	FBC	
1	10/08/17	JK	UPDATE TO 6TH ED.	(2017)	FBC	

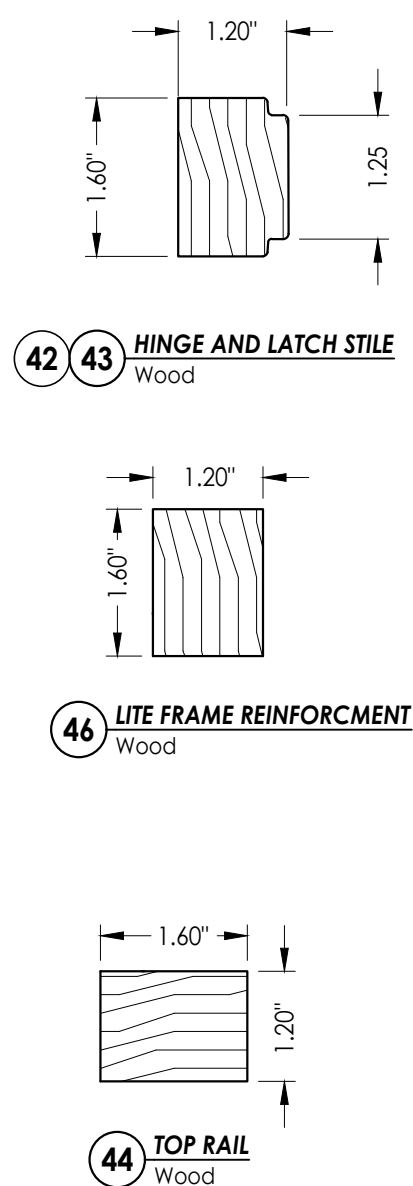
DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-17904.2
SHEET 1 OF 11



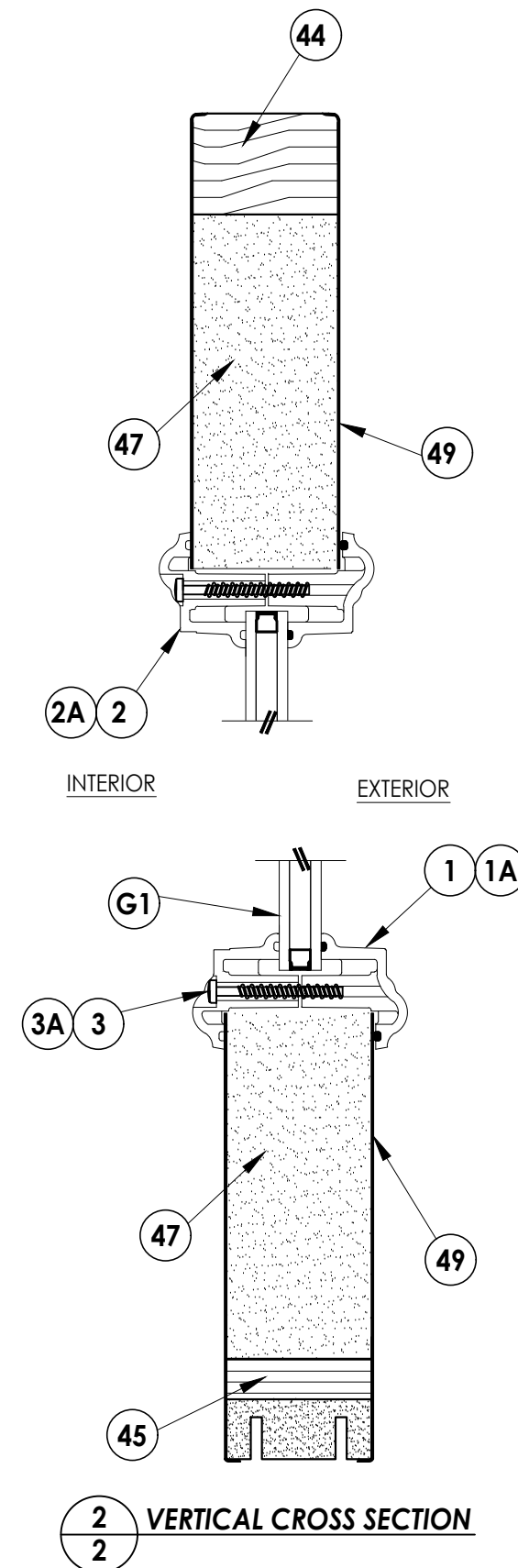
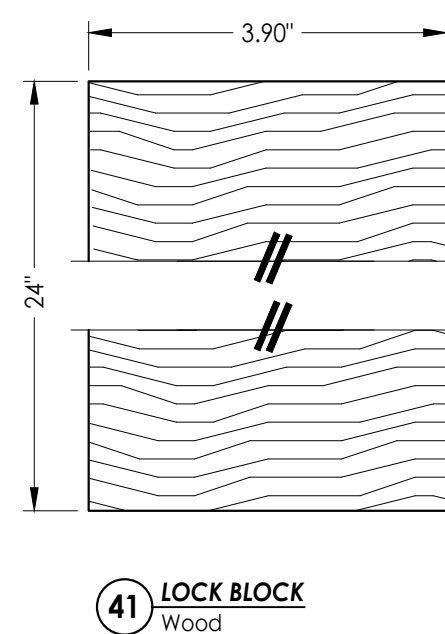
ODL LITE FRAME SCREWS (Item #3):
HEAD/SILL (4 total), 3.25" from corners & 6" max. o.c.
JAMBS: (8 total), 6.5" from corners & 10" max. o.c.



DOOR PANEL
Fiberglass
SHOWN w/o LITE INSERT
FOR CLARITY



45 **BOTTOM RAIL**
Composite / LVL



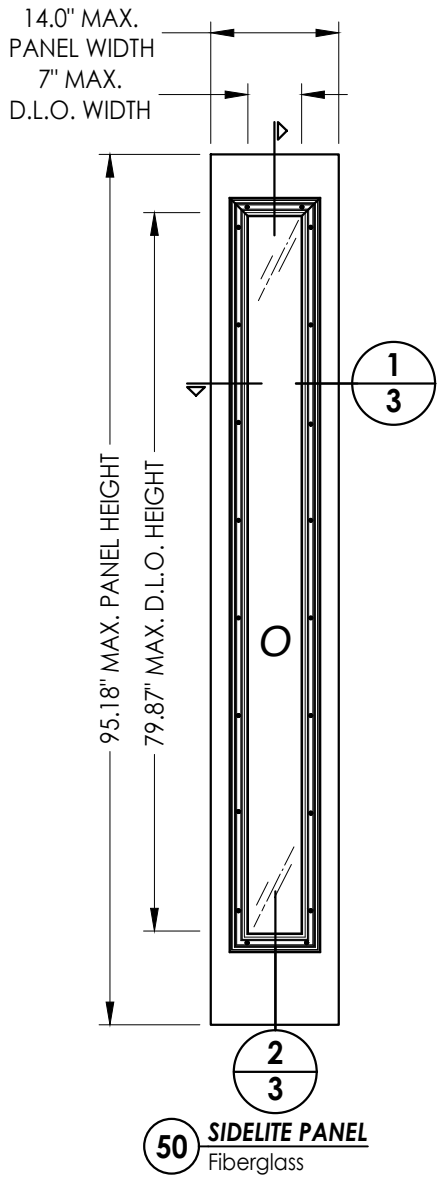
2 VERTICAL CROSS SECTION

PRODUCT:		STEVES AND SONS				PART OR ASSEMBLY: DOOR PANEL DETAILS	
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				UPDATE TO 8TH ED. (2023)	FBC	LFS	
				UPDATE TO 7TH ED. (2020)	FBC	LFS	
				UPDATE TO 6TH ED. (2017)	FBC	JK	
				NO. DATE		BY	
							REVISIONS
DATE: 7/18/15							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-17904.2							
SHEET 2 OF 11							

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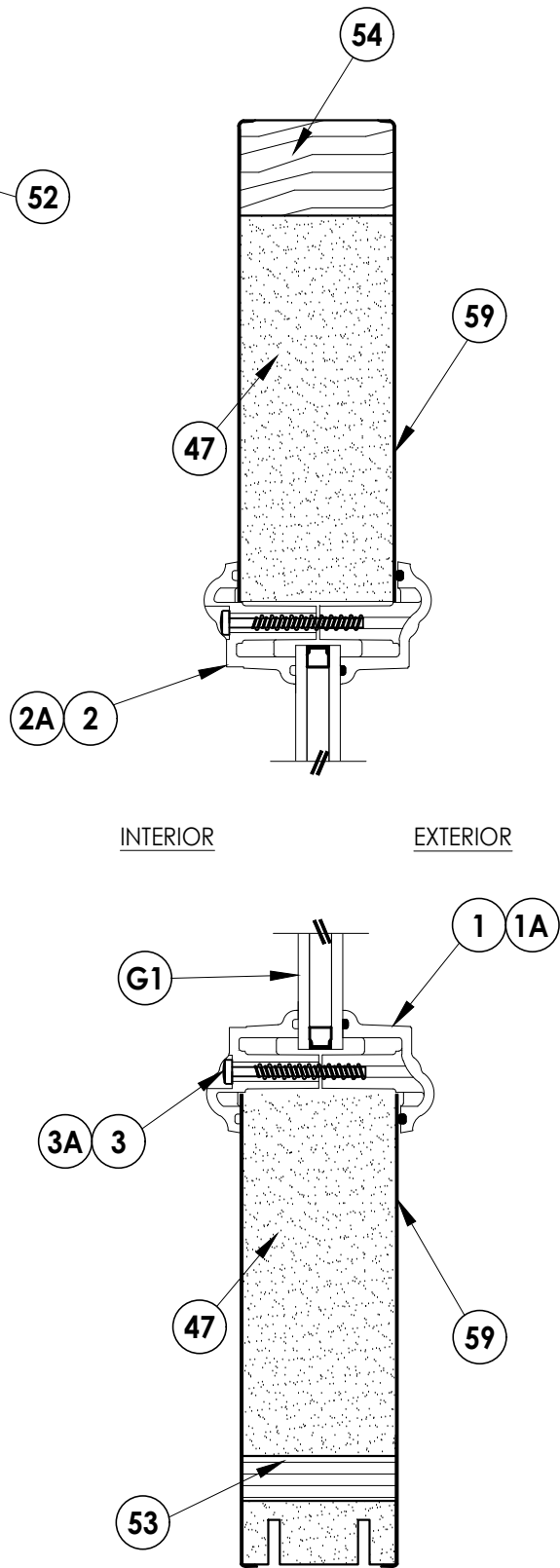
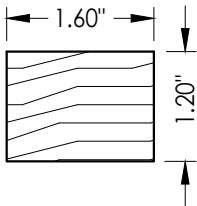
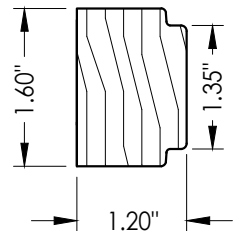
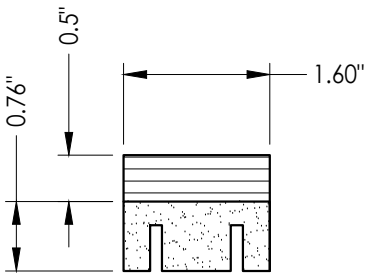
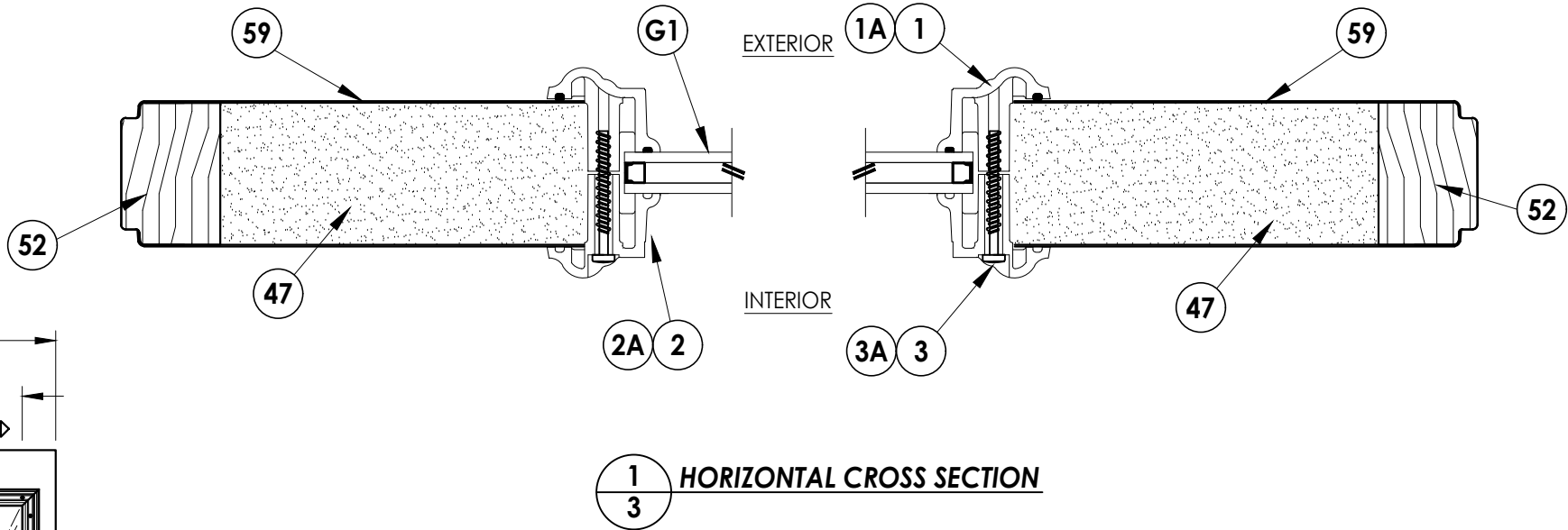
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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ODL LITE FRAME SCREWS (Item #3):
HEAD/SILL (2 total), 2" from corners
JAMBS: (8 total), 6.5" from corners & 10" max. o.c.

RSL SIDELITE FRAME SCREWS (Item #3A):
HEAD/SILL (2 total), 2" from corners
JAMBS: (8 total), 3.25" from corners & 10.75" max. o.c.



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PRODUCT:
STEVES AND SONS

PART OR ASSEMBLY:
SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS
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3	8/02/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/10/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/08/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 7/18/15

SCALE: N.T.S.

DWG. BY: JK

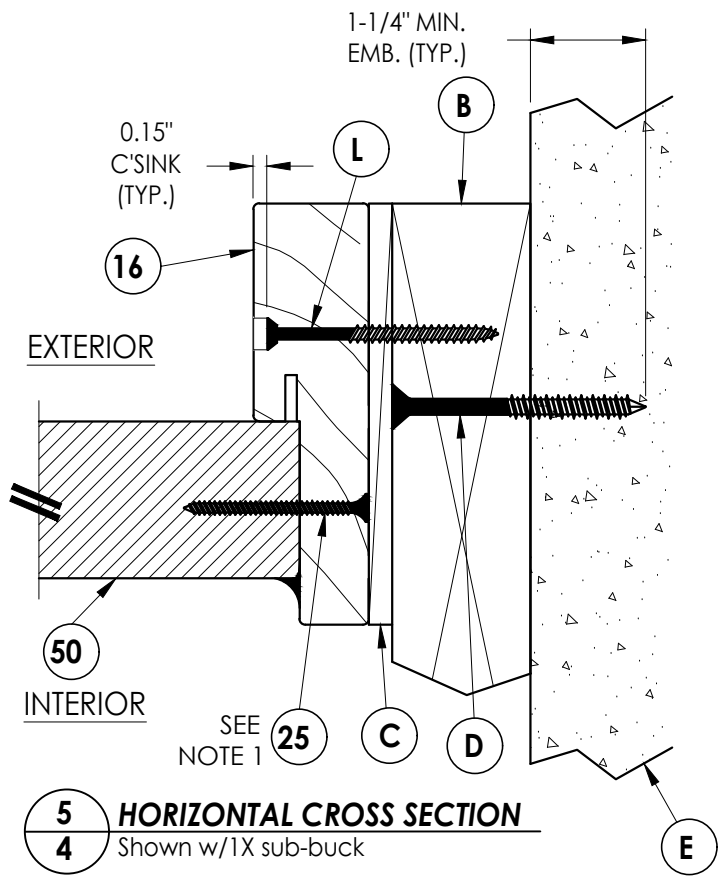
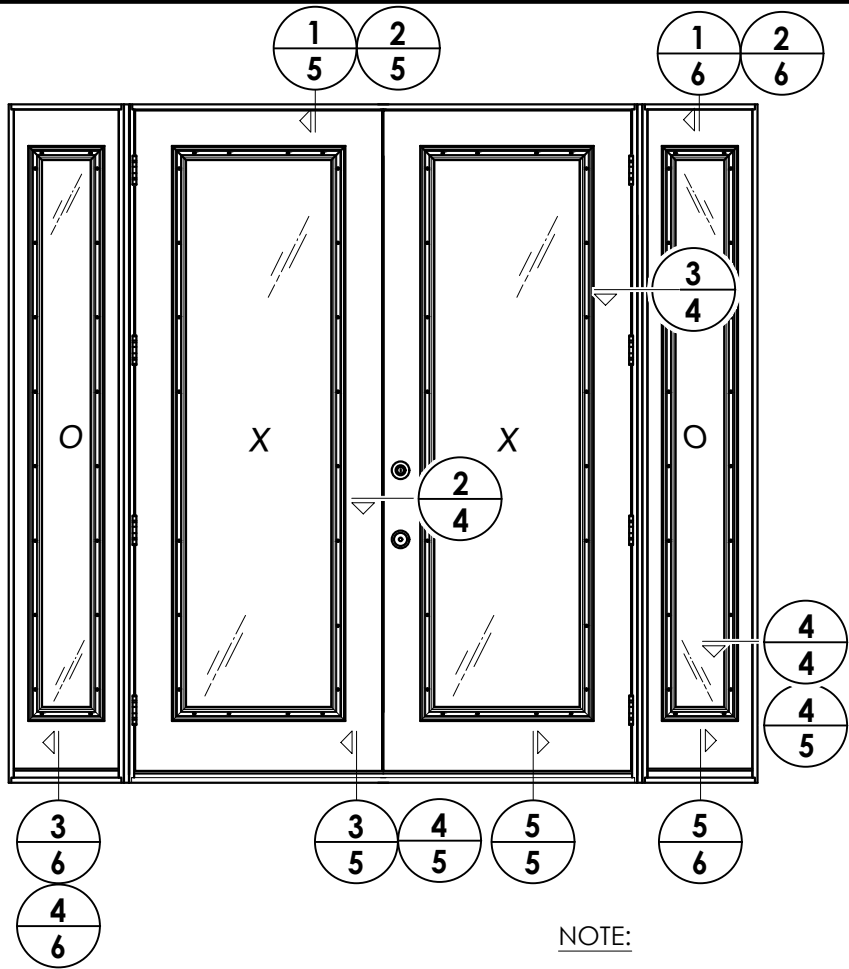
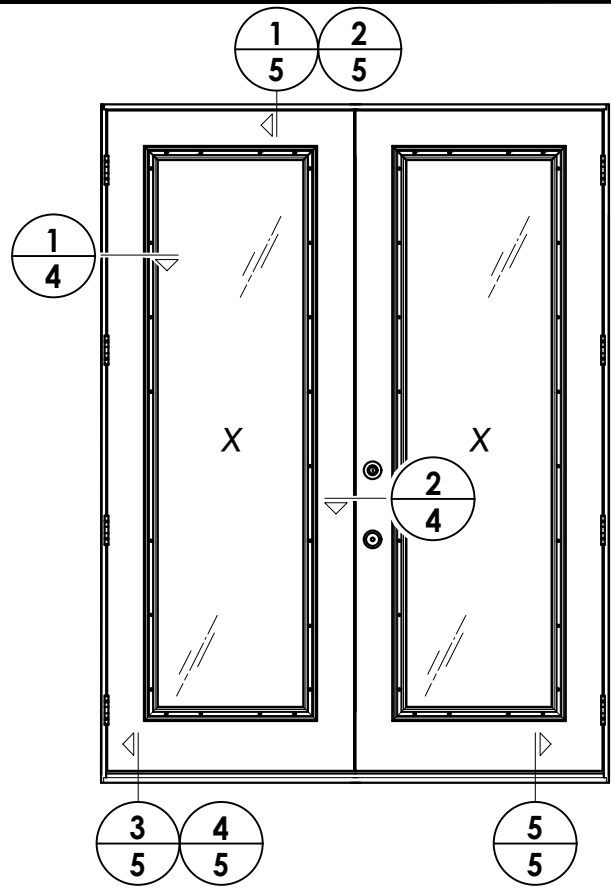
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DRAWING NO.:

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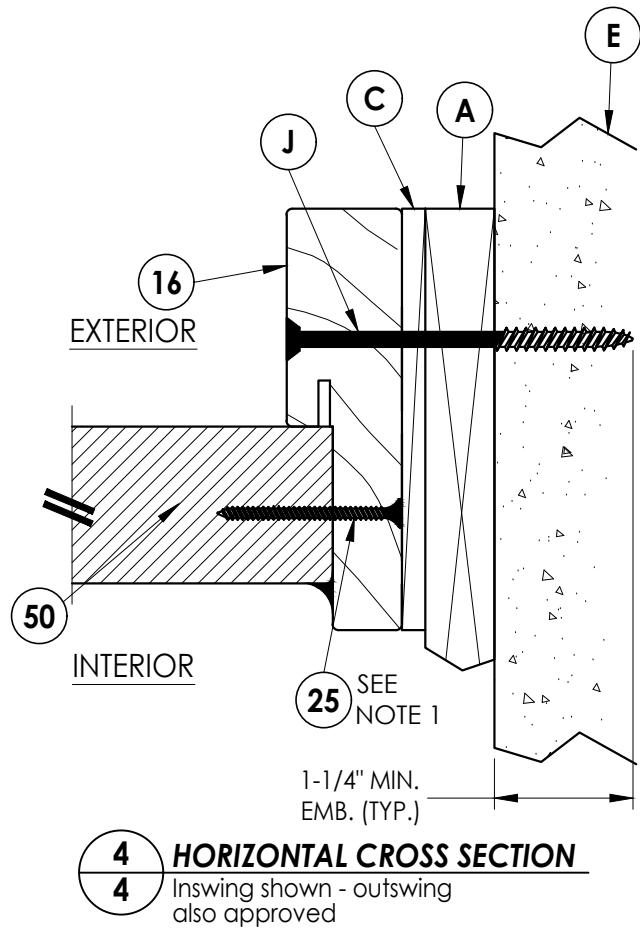
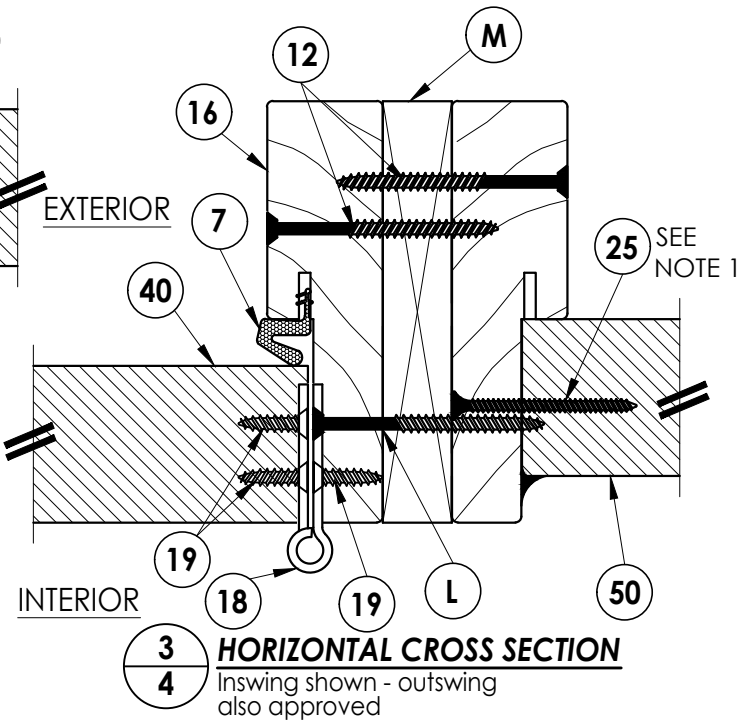
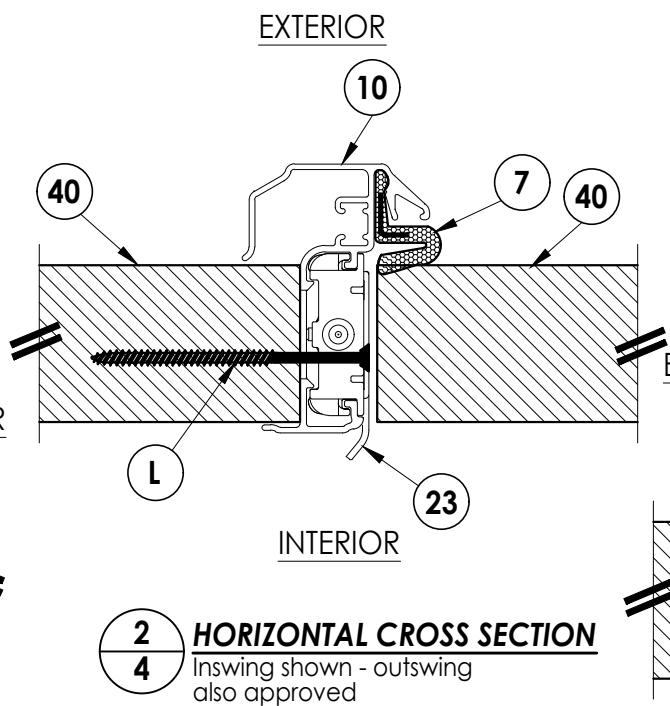
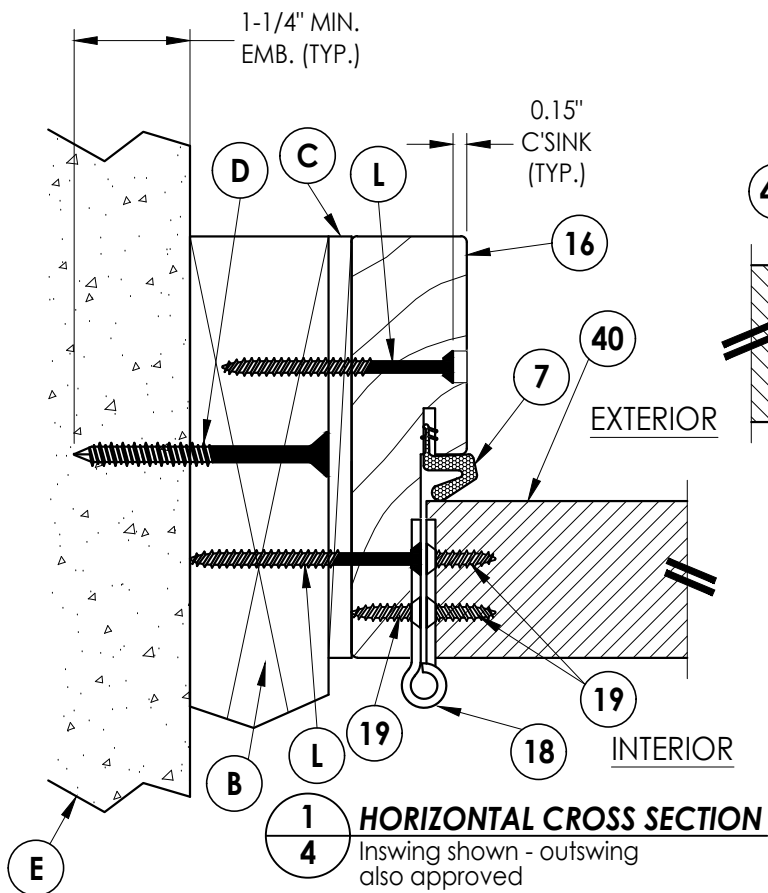
SHEET 3 OF 11

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NOTE:

Sidelite ass'y fastener; 6" from each end and 6 more screws equally spaced between. (8 screws total per jamb.)



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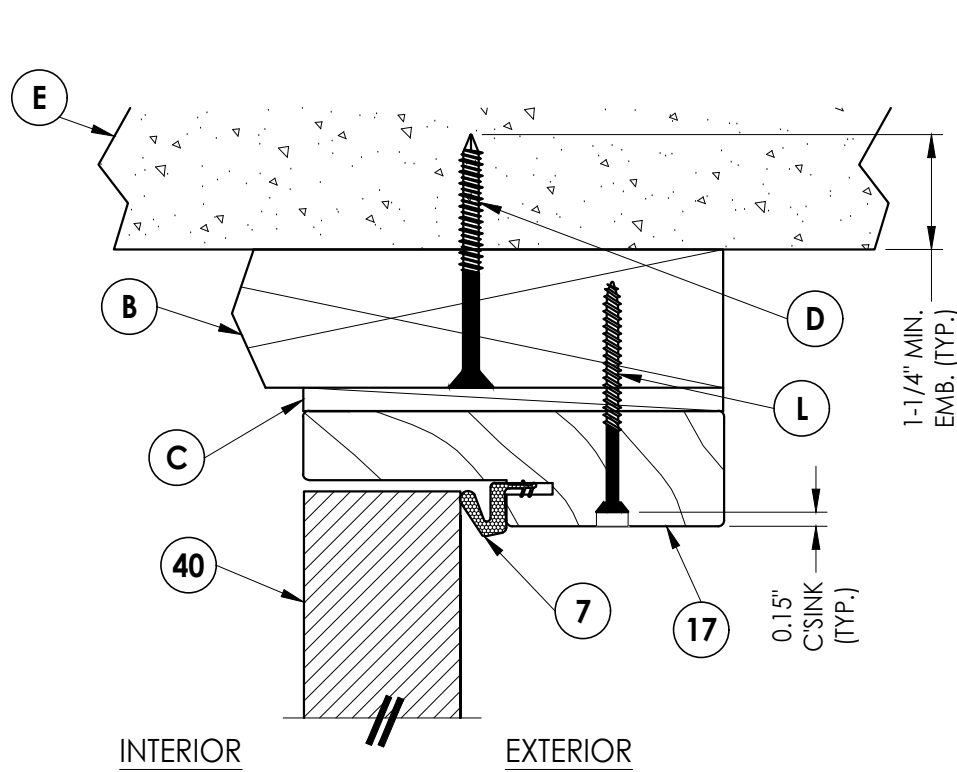
PRODUCT: STEVES AND SONS

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

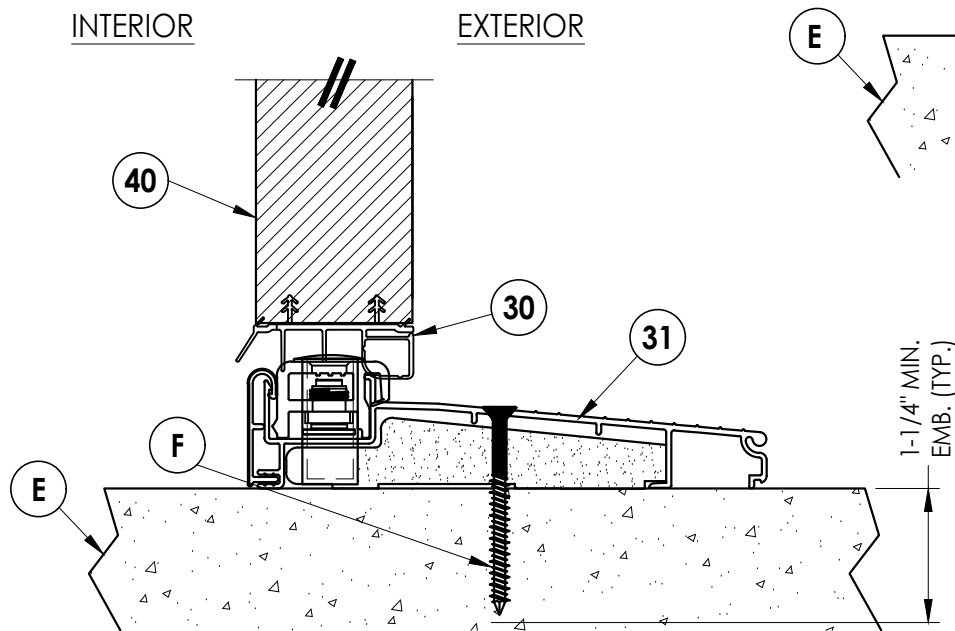
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3	8/02/23	UPDATE TO 8TH ED. (2023) FBC
2	9/10/20	UPDATE TO 7TH ED. (2020) FBC
1	10/08/17	UPDATE TO 6TH ED. (2017) FBC

DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17904.2
SHEET 4 OF 11

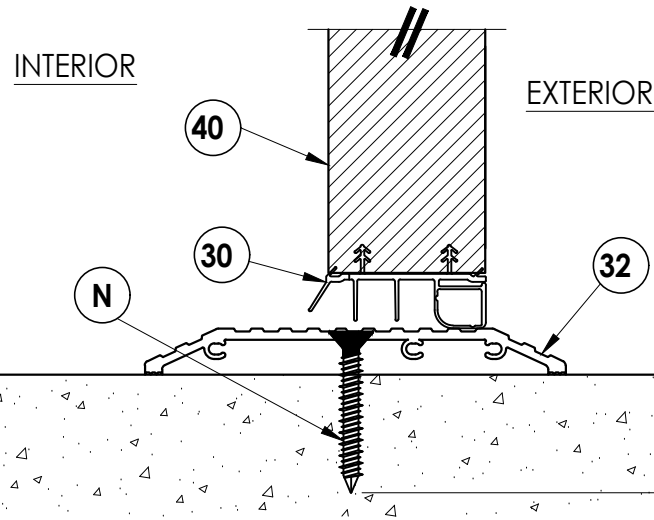
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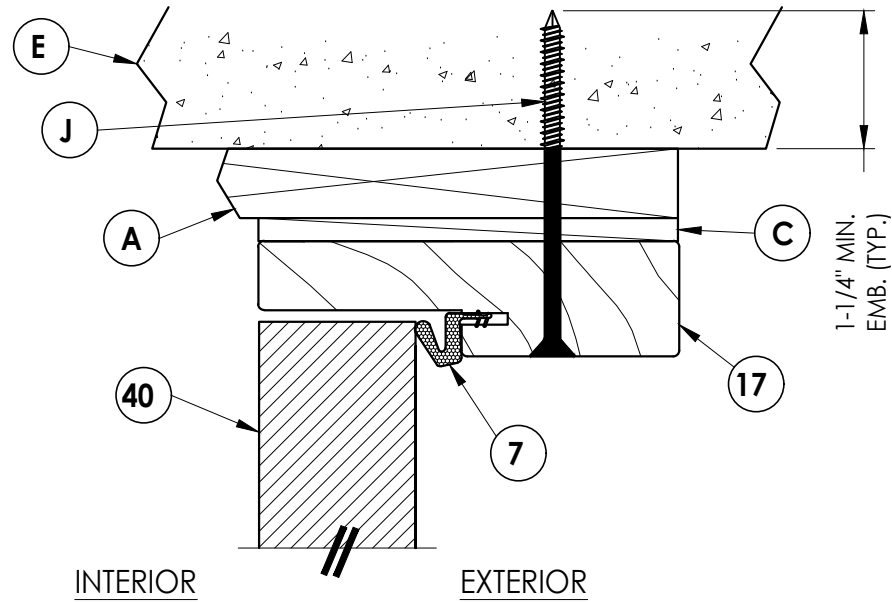
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5 **VERTICAL CROSS SECTION**
Inswing shown - outswing
also approved



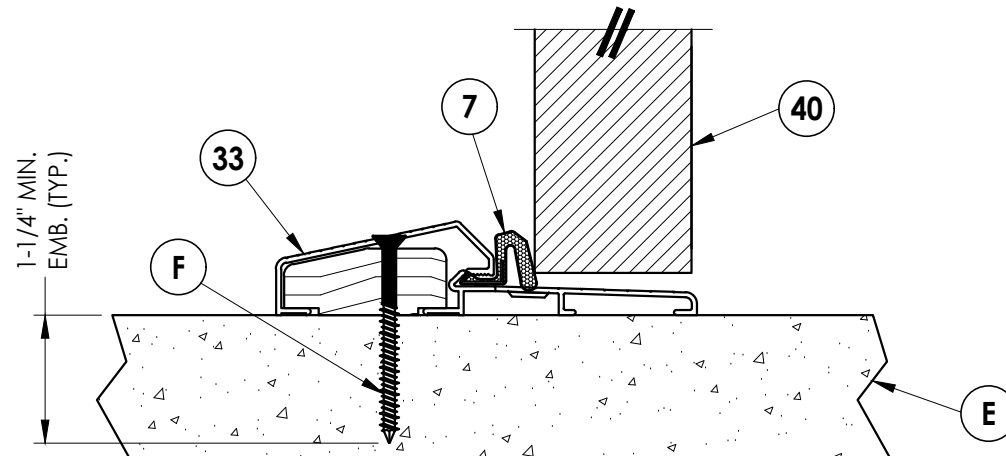
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5 **VERTICAL CROSS SECTION**
Inswing configuration



5
5 **VERTICAL CROSS SECTION**
Shown w/ ADA threshold



2
5 **VERTICAL CROSS SECTION**
Shown w/1X sub-buck



4
5 **VERTICAL CROSS SECTION**
Outswing configuration

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PRODUCT:
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PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

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2	9/10/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/08/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 7/18/15

SCALE: N.T.S.

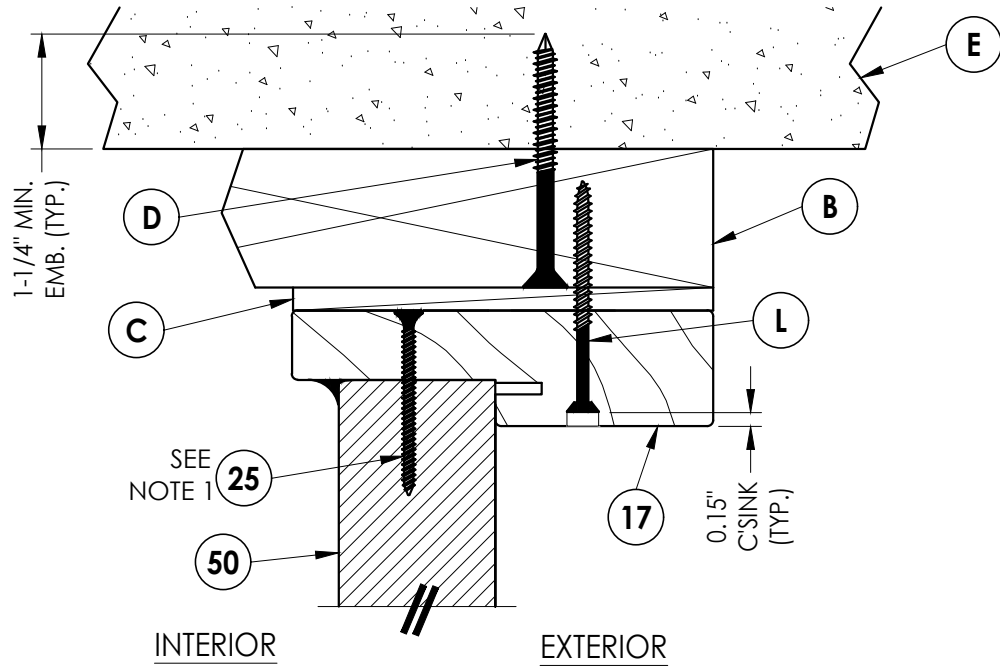
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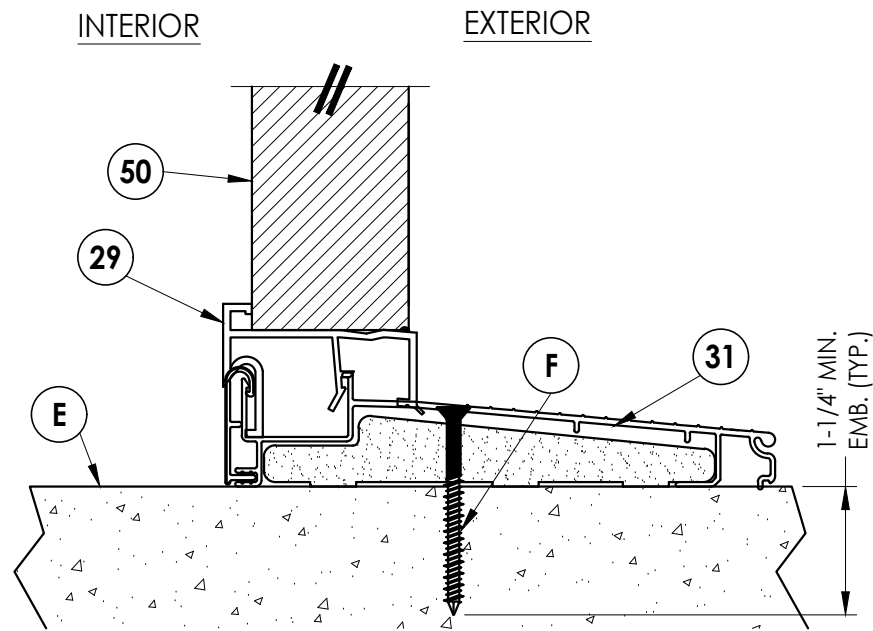
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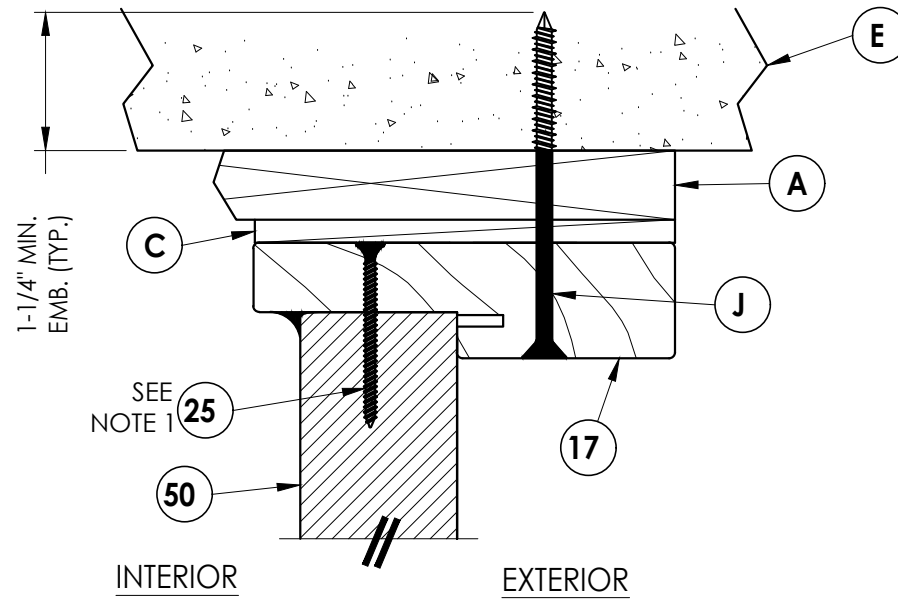
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1
6 **VERTICAL CROSS SECTION**
Inswing shown - outswing
also approved



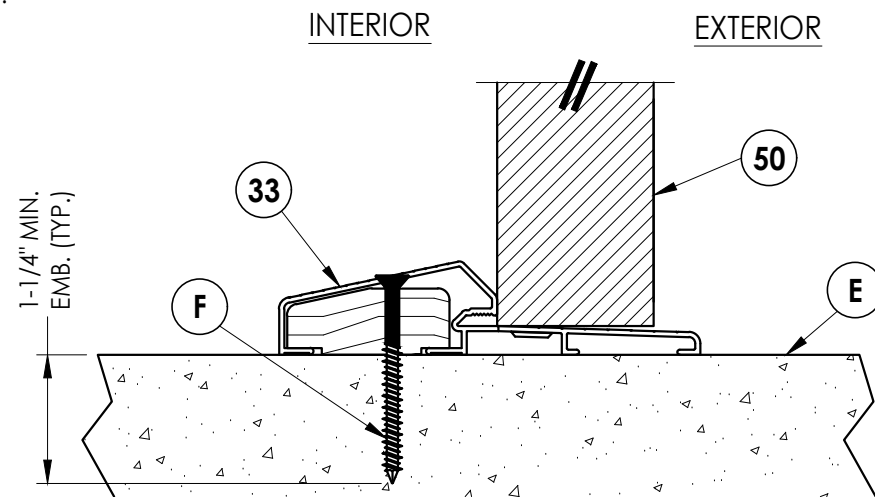
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6 **VERTICAL CROSS SECTION**
Inswing configuration



2
6 **VERTICAL CROSS SECTION**
Shown w/1X sub-buck

NOTE:

1. Screws thru head and sill jamb located 3" from each end.



4
6 **VERTICAL CROSS SECTION**
Outswing configuration

Documents Prepared By:
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P.O. Box 230, Valrico, FL 33595
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PRODUCT:
STEVE'S AND SONS

PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

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4	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
3	8/02/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/10/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/08/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 7/18/15

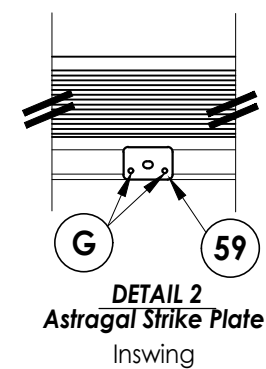
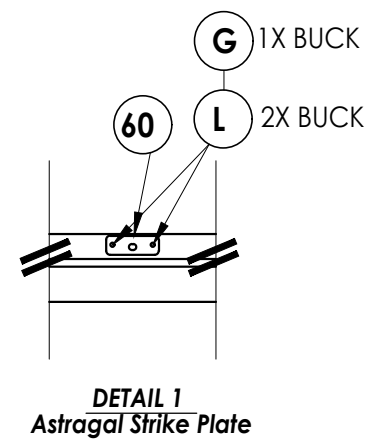
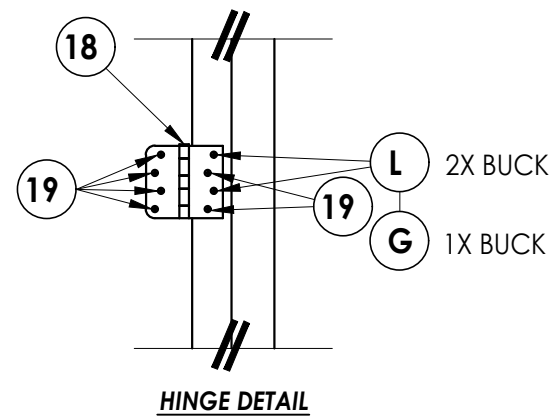
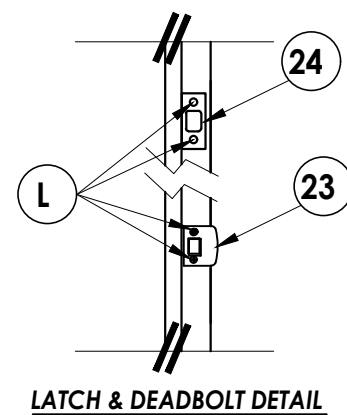
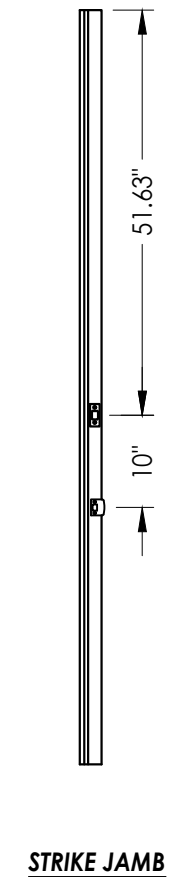
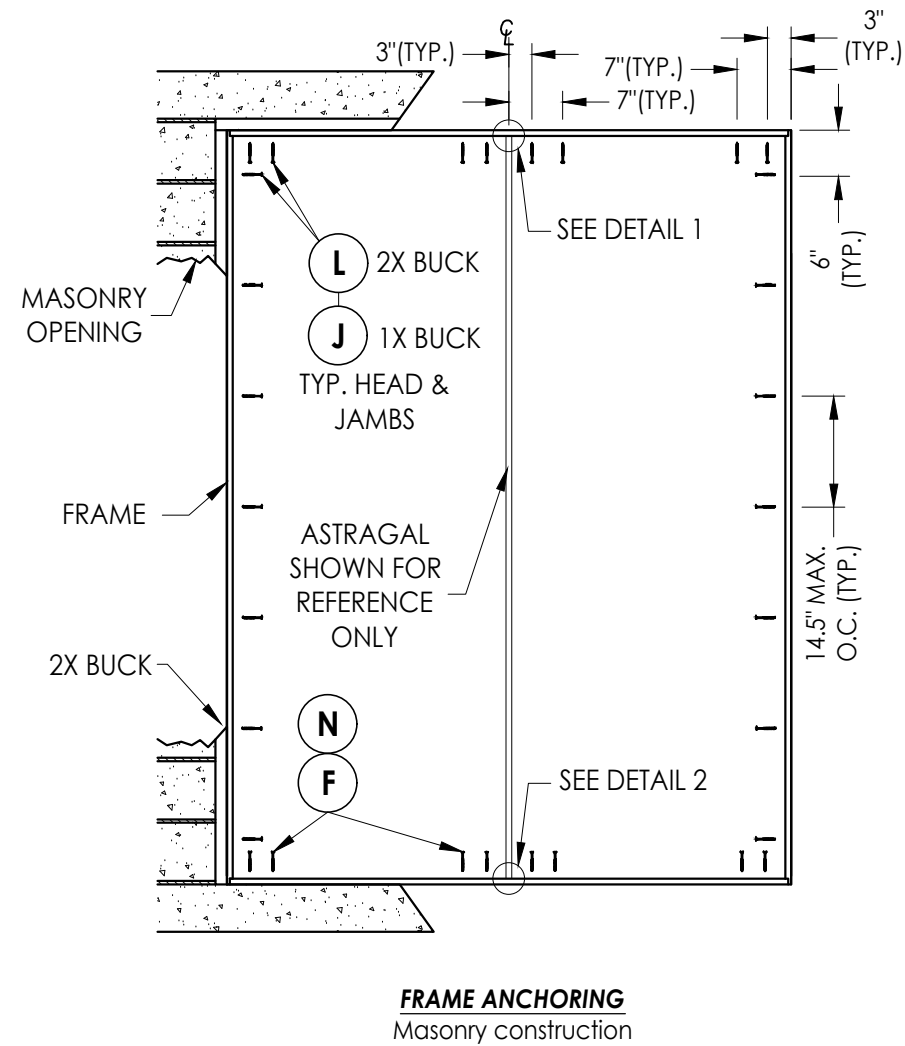
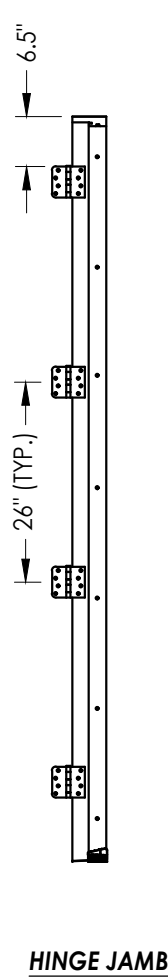
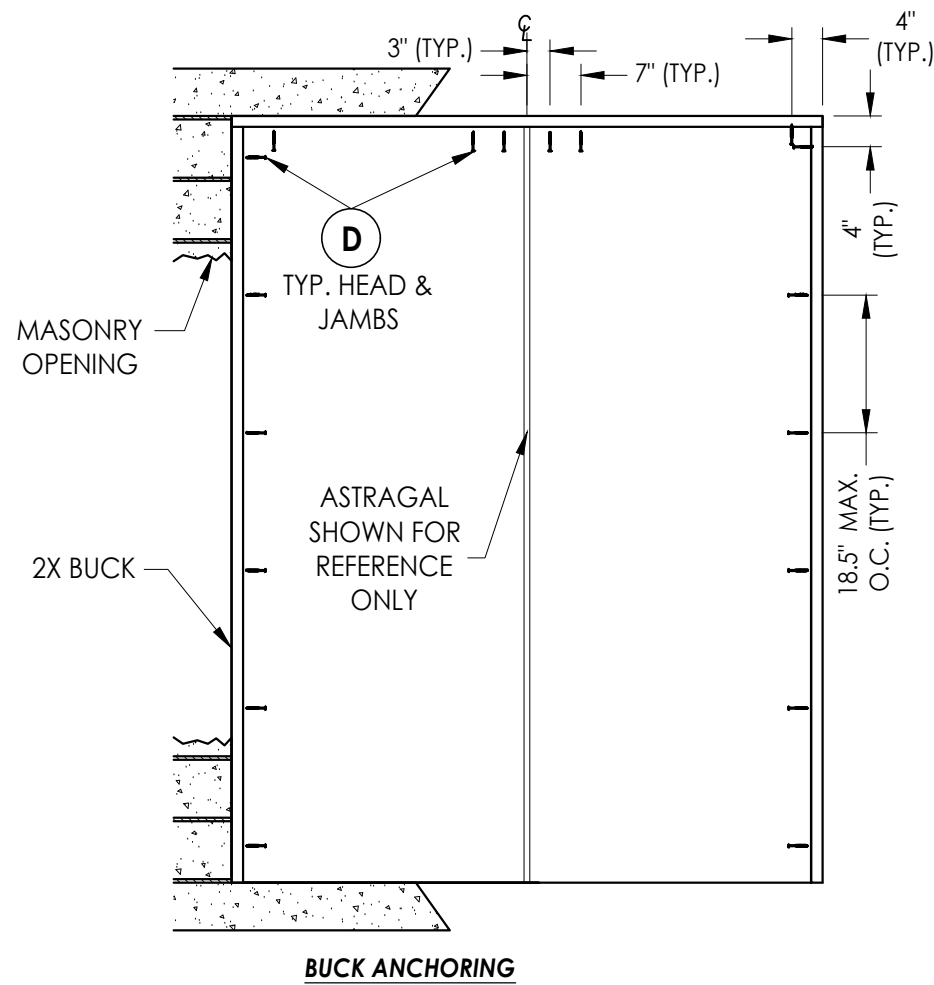
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DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-17904.2

SHEET 6 OF 11

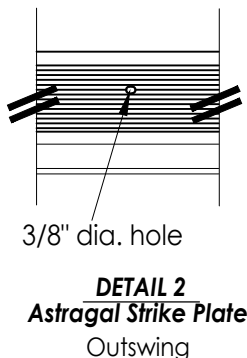
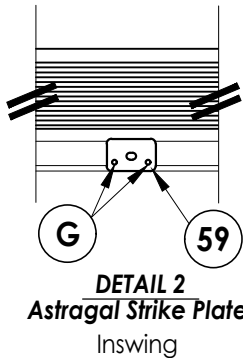
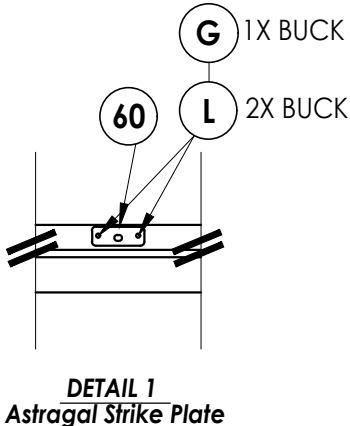
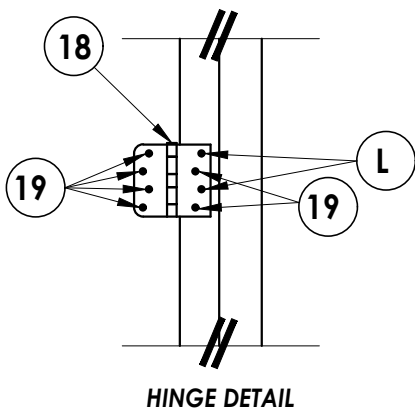
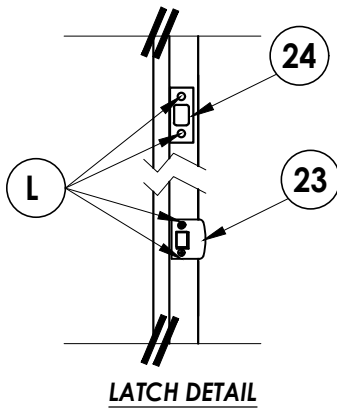
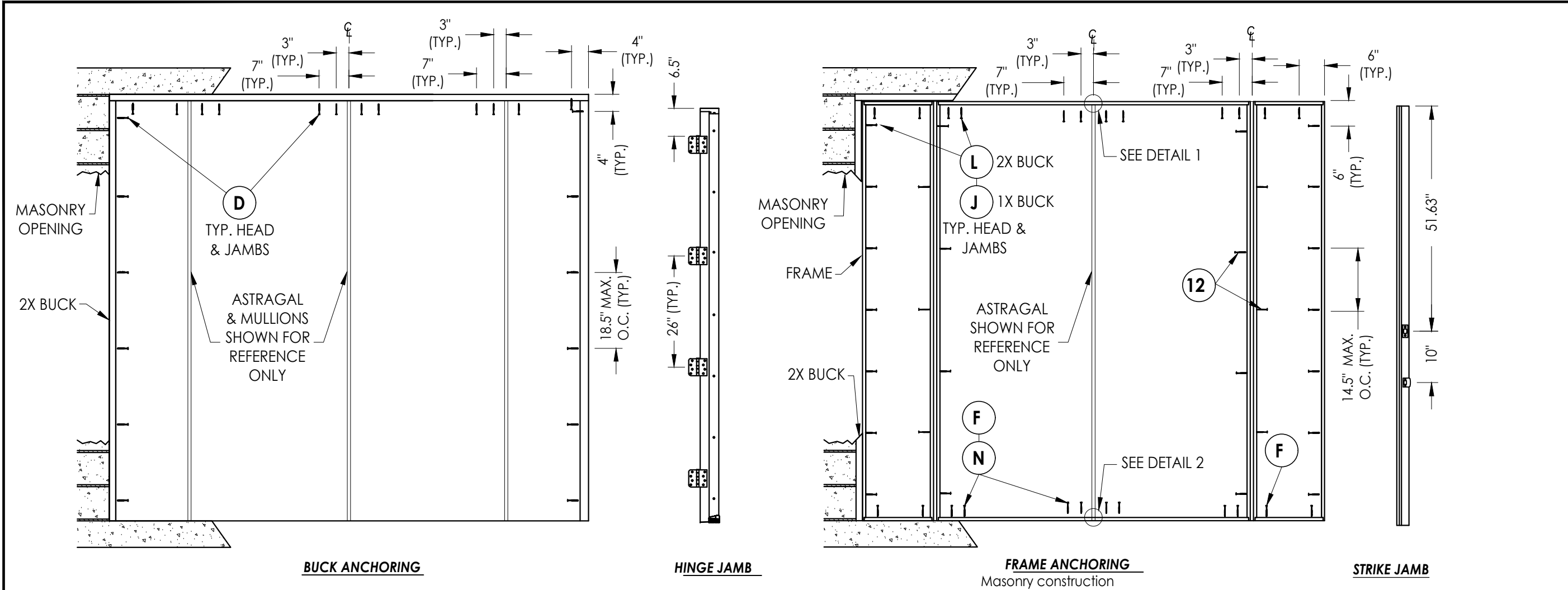


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3	8/02/23	UPDATE TO 8TH ED. (2023)	FBC	LFS		
2	9/10/20	UPDATE TO 7TH ED. (2020)	FBC	LFS		
1	10/08/17	UPDATE TO 6TH ED. (2017)	FBC	JK		
NO.	DATE			BY		
				REVISIONS		
DATE: 7/18/15						
SCALE: N.T.S.						
DWG. BY: JK						
CHK. BY: LFS						
DRAWING NO.: FL-17904.2						
SHEET 7 OF 11						

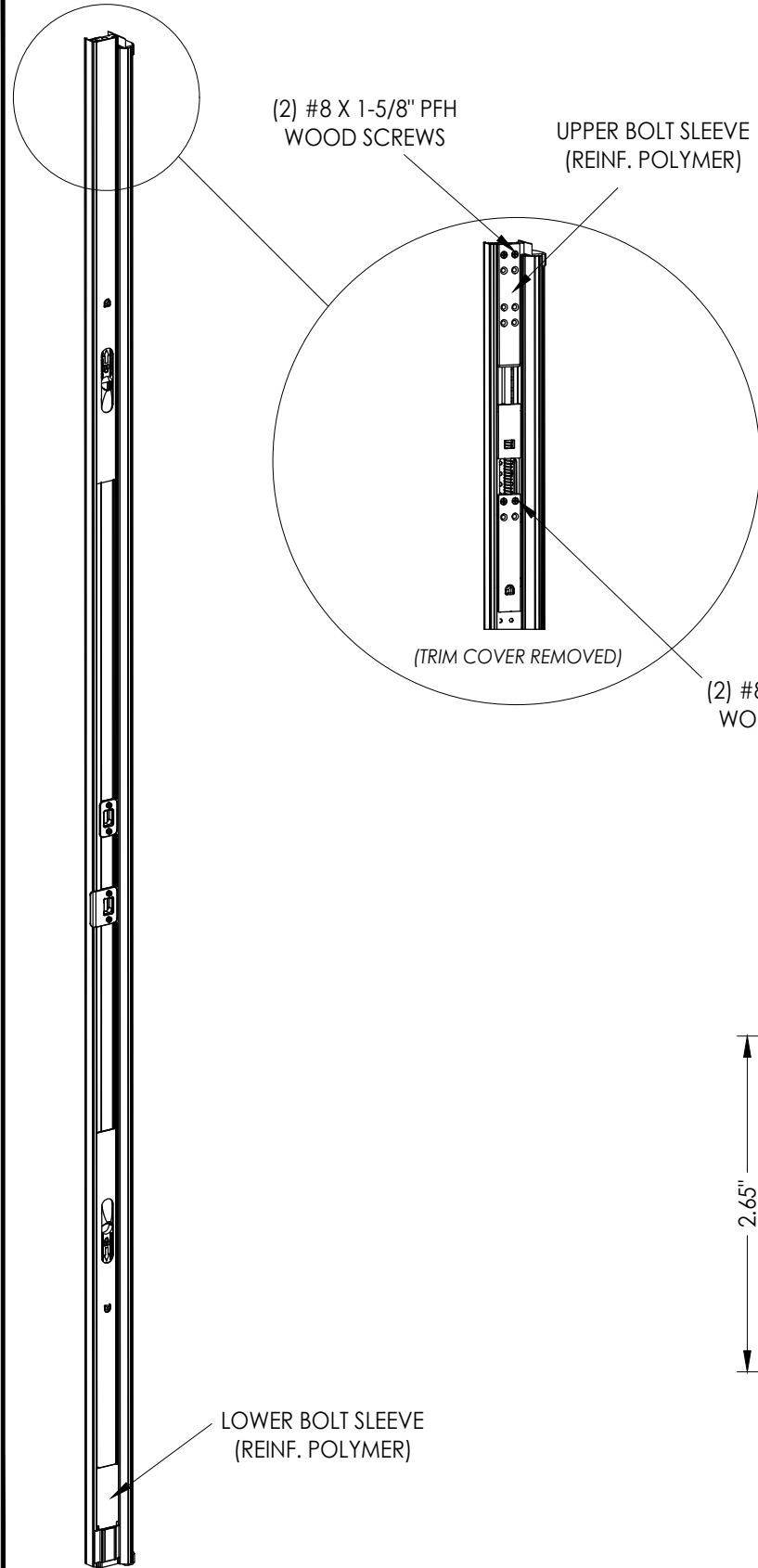
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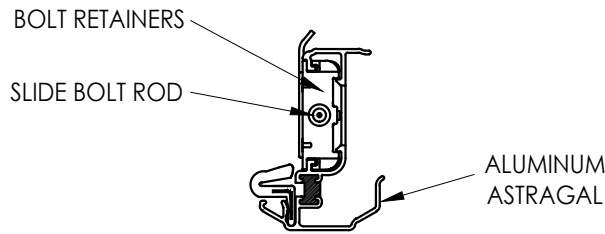
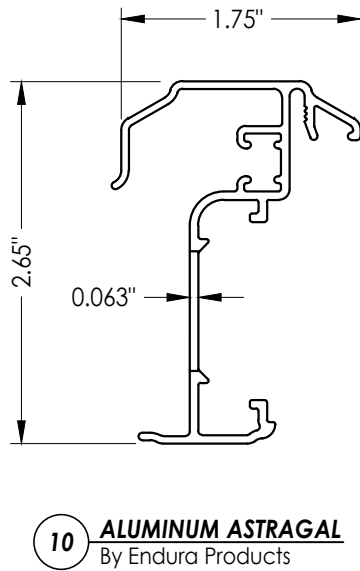
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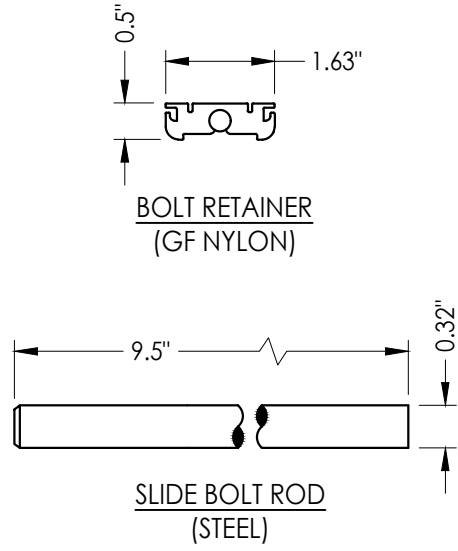
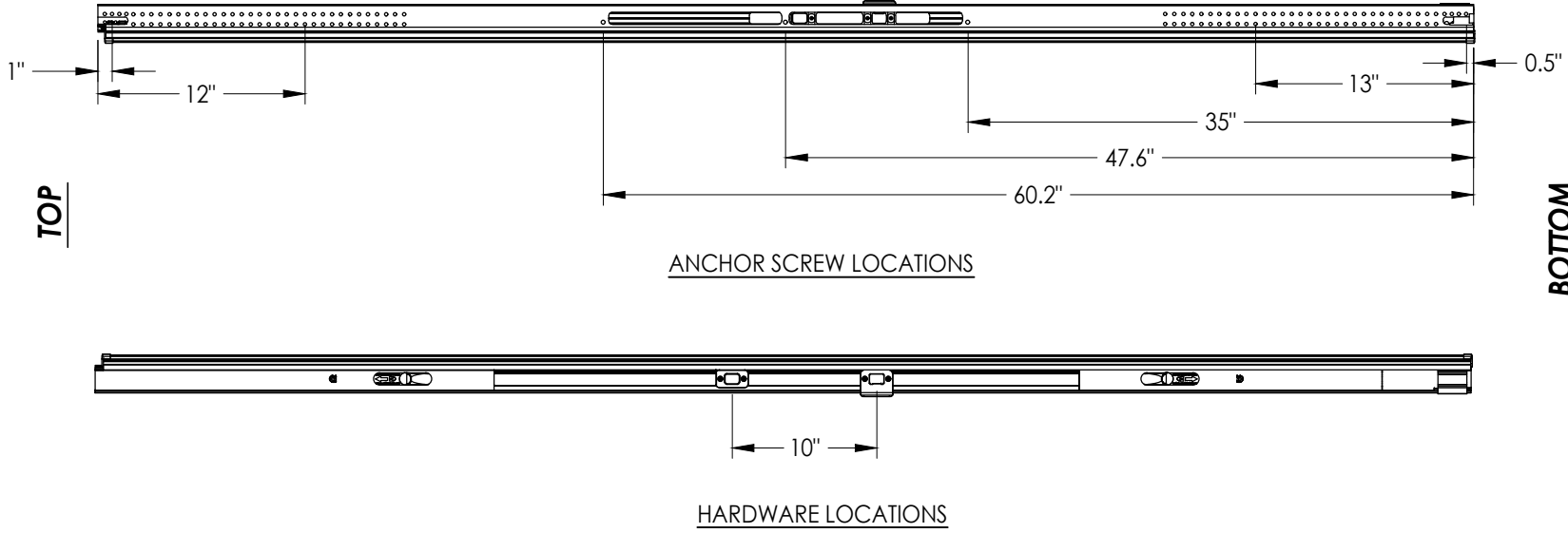
Documents Prepared By:		STEVE'S AND SONS		PART OR ASSEMBLY:		BUCK & FRAME ANCHORING (OXXO)	
Lyndon F. Schmidt		LFS		JK		BY	
P.E. No. 43409		LFS		LFS		REVISIONS	
BUILDING CONSULTANTS, INC.		UPDATE TO 9TH ED. (2026) FBC		UPDATE TO 7TH ED. (2017) FBC		NO.	
P.O. Box 230, Vairico, FL 33595		UPDATE TO 8TH ED. (2023) FBC		UPDATE TO 6TH ED. (2020) FBC		DATE	
Phone No.: 813.659.9197		UPDATE TO 7TH ED. (2020) FBC		UPDATE TO 6TH ED. (2017) FBC		DATE	
FBPE Registry No. 9813		UPDATE TO 7TH ED. (2020) FBC		UPDATE TO 6TH ED. (2017) FBC		DATE	
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SHEET 8 OF 11		DATE		DATE		DATE	



ULTIMATE HURRICANE ASTRAGAL

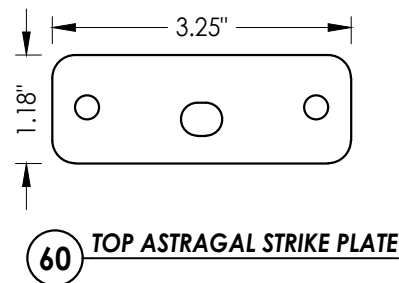
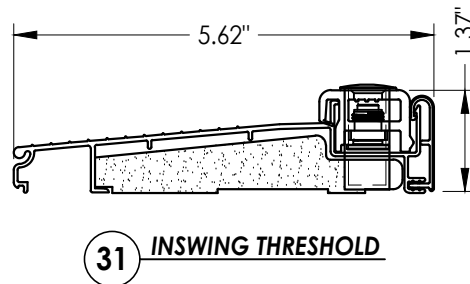
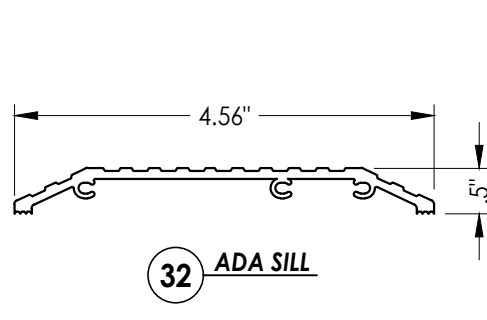
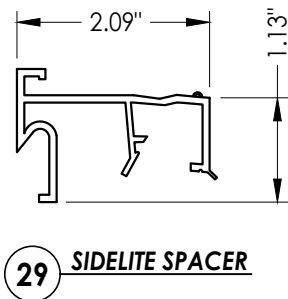
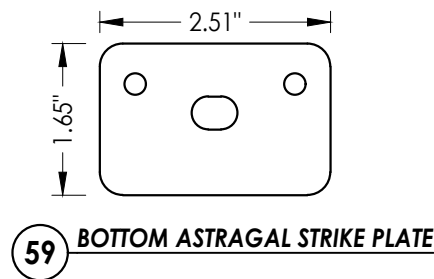
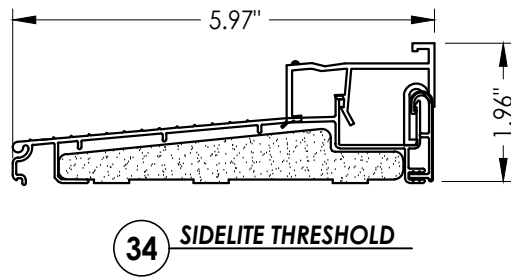
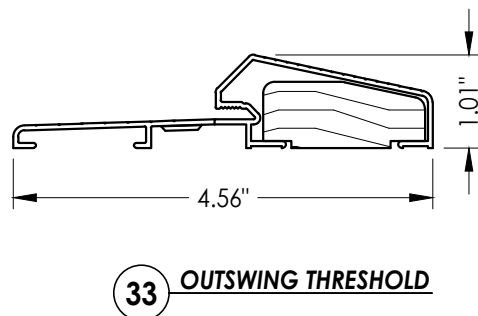
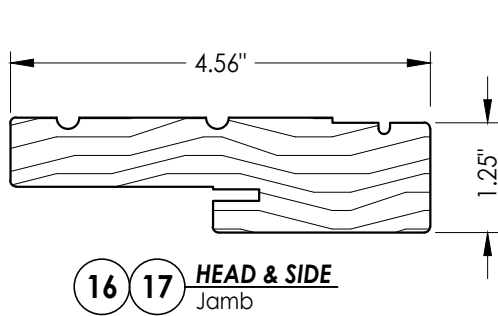
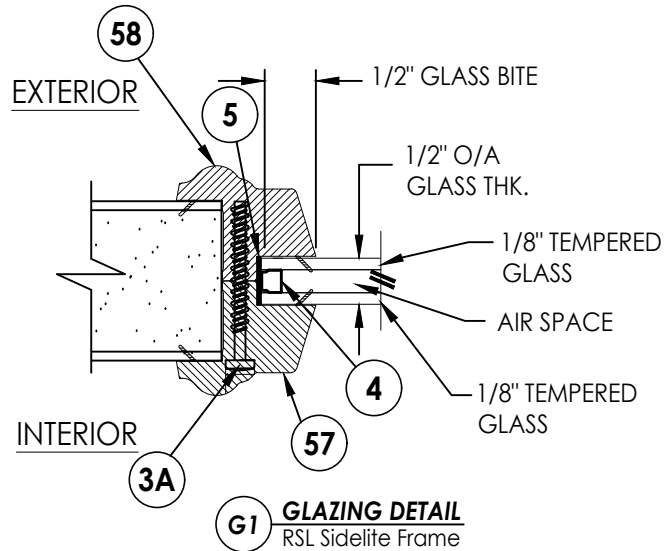
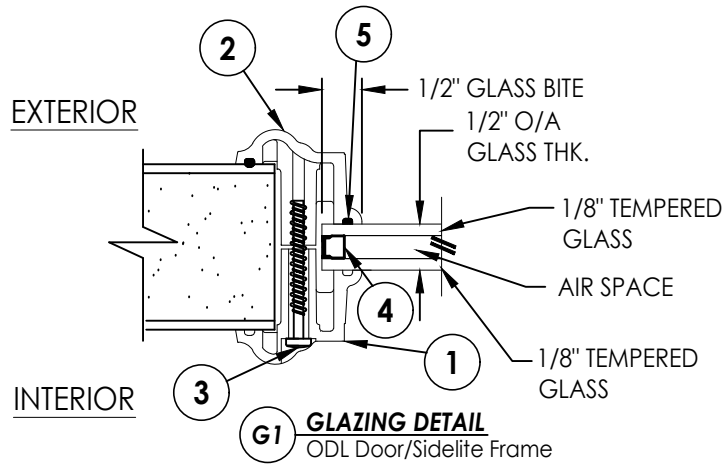
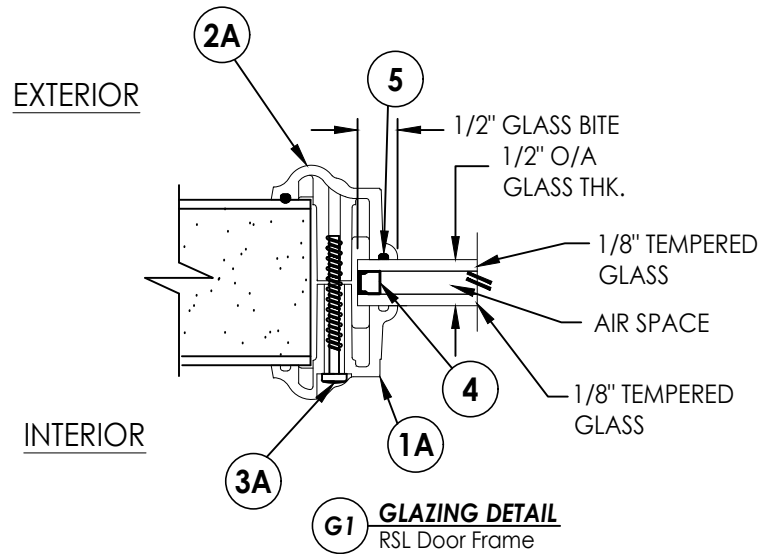


ALUMINUM ASTRAGAL ASSEMBLY



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:		STEVES AND SONS		ASTRAGAL DETAILS	
PART OR ASSEMBLY:		ASTRAGAL DETAILS		ASTRAGAL DETAILS	
REVISIONS		REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE	NO.	DATE
4	7/01/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS
3	8/02/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
2	9/10/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
1	10/08/17	UPDATE TO 6TH ED.	(2017)	FBC	JK
DATE: 7/18/15		SCALE: N.T.S.		DWG. BY: JK	
CHK. BY: LFS		DRAWING NO.: FL-17904.2		SHEET 9 OF 11	

Z:\2023 FBC Drawings\Steves & Sons\FL-17904 R5\FL- 17904.2 .dwg



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

PRODUCT:
STEVES AND SONS

PART OR ASSEMBLY:
GLAZING DETAILS
& COMPONENTS

NO.	DATE	REVISIONS
4	7/01/26	UPDATE TO 9TH ED. (2026) FBC
3	8/02/23	UPDATE TO 8TH ED. (2023) FBC
2	9/10/20	UPDATE TO 7TH ED. (2020) FBC
1	10/08/17	UPDATE TO 6TH ED. (2017) FBC

DATE: 7/18/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-17904.2

SHEET 10 OF 11

ITEM #	DESCRIPTION	MATERIAL
A	1" X BUCK SG >= 0.55	WOOD
B	2" X 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
F	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
H	1/4" X 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
I	#8 X 2-1/4" PFH SCREW	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	#9 X 2-1/2" PFH WS	STEEL
L	#10 X 2-1/2" PFH WS (1-1/8" MIN. EMBEDMENT)	STEEL
N	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
M	1X REINFORCEMENT SG >= 0.55	STEEL
1	FEMALE LITE FRAME - ODL	POLYPROPYLENE
1A	FEMALE LITE FRAME - RSL	POLYPROPYLENE
2	MALE LITE FRAME - ODL	POLYPROPYLENE
2A	MALE LITE FRAME - RSL	POLYPROPYLENE
3	#8 X 1-3/4" PANHEAD SMS (LIGHT FRAME SCREW)	STEEL
3A	#8 X 1-1/2" PANHEAD SMS (LIGHT FRAME SCREW)	STEEL
4	ALUMINUM SPACER SYSTEM	ALUMINUM
5	HOT MELT SELANT / SILICONE	SILICONE
7	WEATHER STRIP	FOAM
10	ALUMINUM ASTRAGAL : BY ENDURA PRODUC	ALUMINUM
12	#10 X 2-1/4" PFH SCREW	STEEL
16	SIDE JAMB SG > = 0.42	WOOD
17	HEAD JAMB SG > = 0.42	WOOD
18	4" X 4" HINGE MIN 0.1" THICK	STEEL
19	#10 X 3/4" PFH WS	STEEL
20	#10 X 2-1/2" PFH WS	STEEL
21	KWIKSET LOCK -SERIES 690 CP PASSAGE	-
22	KWIKSET DEADBOLT -SERIES 690 CP	-
23	LATCH STRIKEPLATE	STEEL
24	DEADBOLT STRIKE PLATE	STEEL
25	#8 X 2-1/2" PFH SCREW	STEEL
29	SIDELITE SPACER	VINYL
30	DOOR BOTTOM SWEEP	PVC
31	INSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM/COMP.
32	ADA THRESHOLD	ALUM.
33	OUTSWING THRESHOLD	ALUM./WOOD
34	SIDELITE THRESHOLD	ALUM./COMP.
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
41	WOOD LOCK BLOCK	WOOD

42	HINGE STILE - SG >= 0.42	WOOD
43	HINGE STILE - SG >= 0.42	WOOD
44	TOP RAIL	WOOD
45	BOTTOM RAIL	COMP./LVL
46	LITE FRAME REINFORCEMENT SG > = 0.42	WOOD
47	POLYSTYRENE FOAM	POLYSTYRENE
49	FIBERGLASS SKIN 0.08" MIN. THICKNESS	FIBERGLASS
50	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
52	SIDELITE STILE - SG>= 0.42	WOOD
53	SIDELITE BOTTOM RAIL	COMP./LVL
54	SIDELITE TOP RAIL	WOOD
55	ALUMINUM ASTRAGAL	ALUMINUM
56	SLIDE BOLT ROD	STEEL
57	SIDELITE FEMALE LITE FRAME - RSL	PVC
58	SIDELITE MALE LITE FRAME - RSL	PVC
59	BOTTOM ASTRAGAL STRIKE PLATE	STEEL
60	TOP ASTRAGAL STRIKE PLATE	STEEL

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 ULTRA CON®	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.

PRODUCT:					
STEVES AND SONS					
PART OR ASSEMBLY:					
BILL OF MATERIALS					
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