



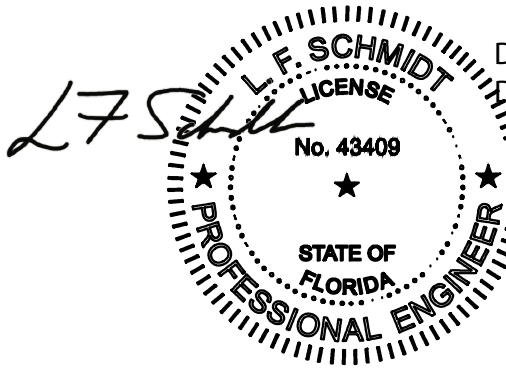
STEVES AND SONS
203 Humble Ave.
San Antonio, TX 78225

GLAZED FIBERGLASS DOOR
INSWING / OUTSWING
"NON-IMPACT"

GENERAL NOTES

- 1. 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.
- 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 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.
- 4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- 5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

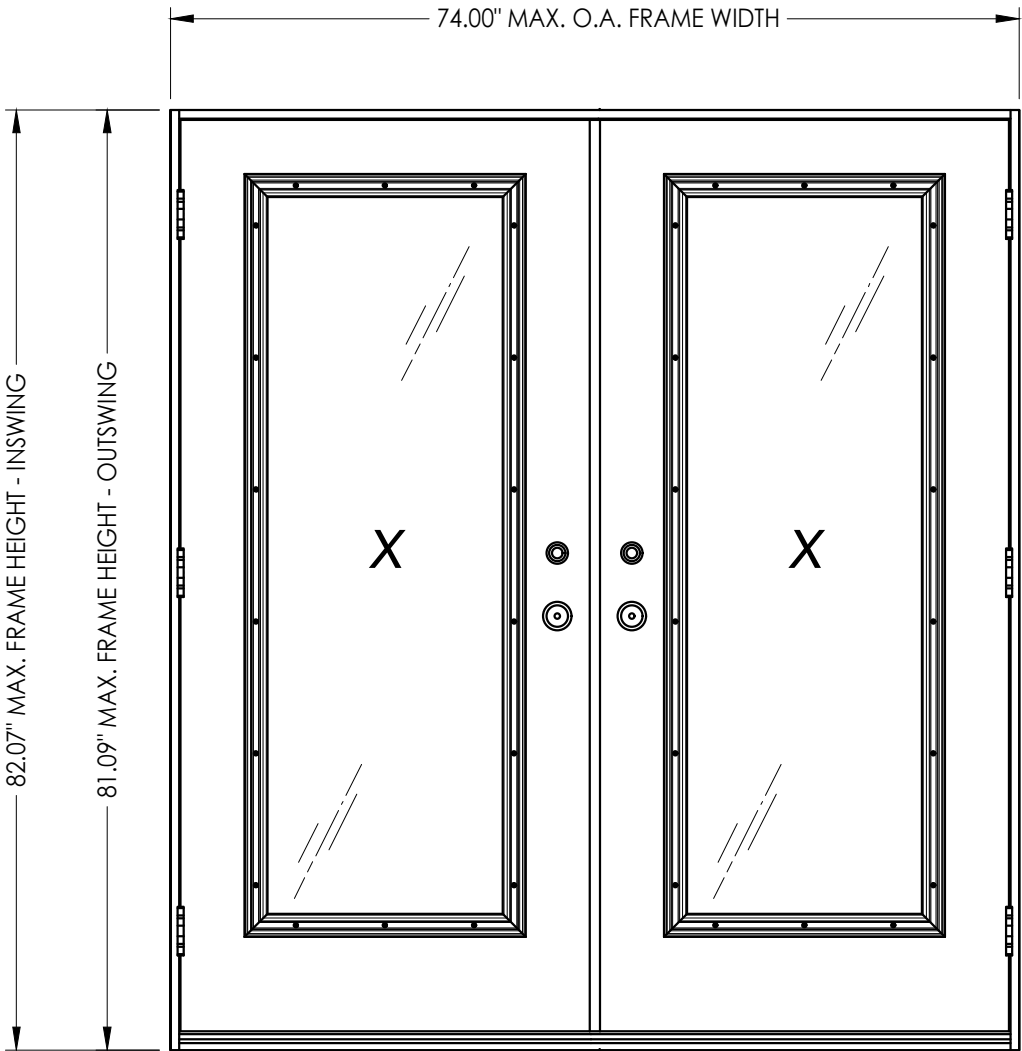
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel construction details & glazing detail
3	Horizontal cross sections
4	Vertical cross sections
5	Buck anchoring
6	Frame anchoring - 2X buck masonry construction
7	Frame anchoring - 1X buck masonry construction
8	Endura astragal details
9	Bill of materials & components



Digitally signed by Lyndon F Schmidt
Date: 2026.07.07 15:16:57 -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



SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
INSWING	74.00" x 82.07"	G1	+47.0	-47.0
OUTSWING	74.00" x 81.09"		+47.0	-47.0

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

PRODUCT: STEVES AND SONS

DATE: 7/18/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-17901.14

SHEET 1 OF 9

Part or Assembly:
TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

REVISIONS

DATE: 7/18/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

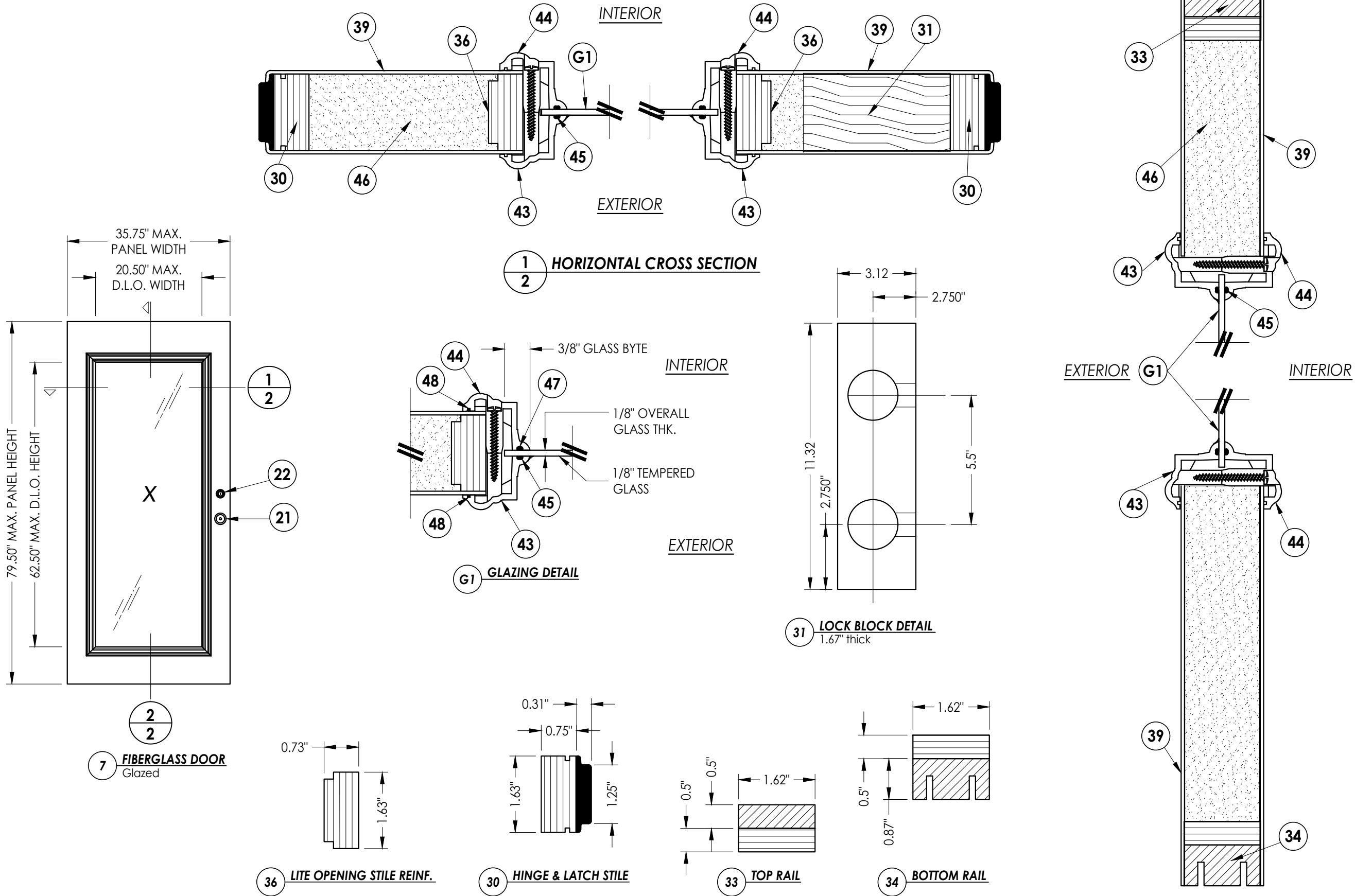
DRAWING NO.: FL-17901.14

SHEET 1 OF 9

Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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

PRODUCT: STEVES AND SONS

PART OR ASSEMBLY:
DOOR PANEL CONSTRUCTION
DETAILS & GLAZING DETAIL

NO.	DATE	REVISIONS			
		BY	JK	LFS	LFS
4	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
3	8/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	9/16/20	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.

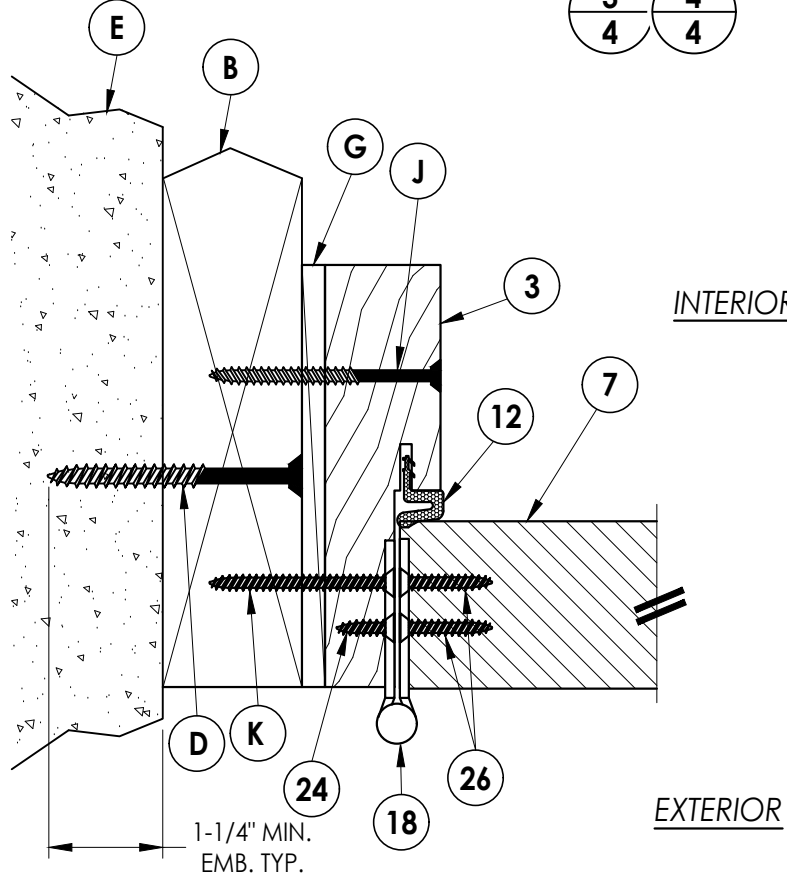
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CHK. BY: LFS

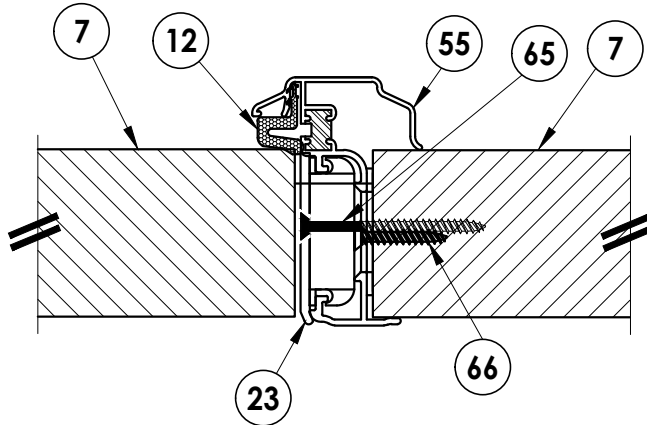
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SHEET 2 OF 9

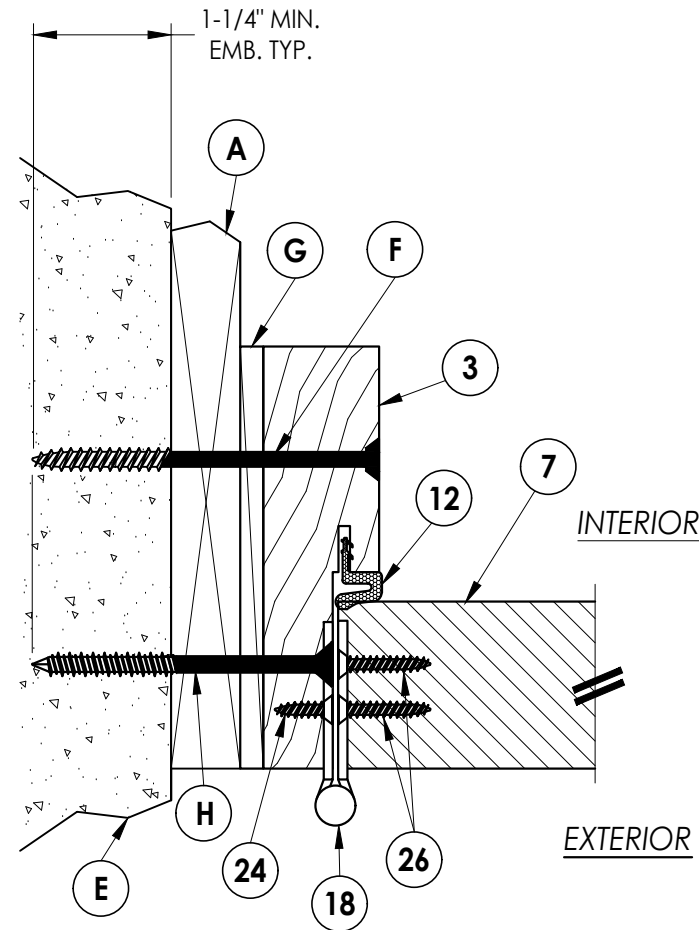
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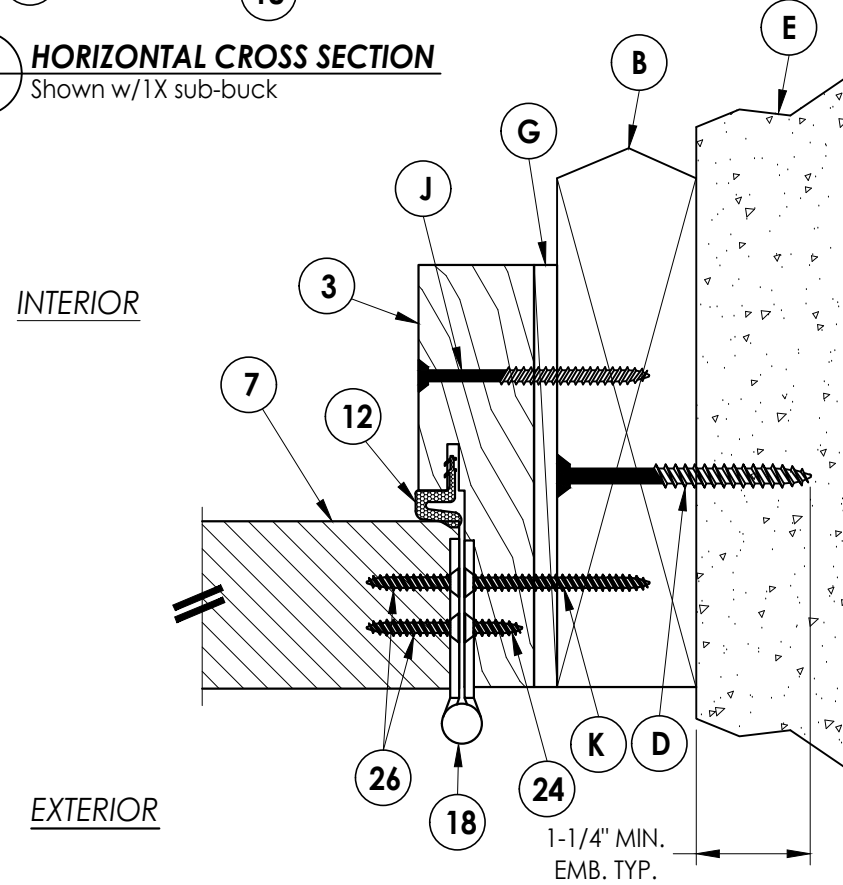
1
3 **HORIZONTAL CROSS SECTION**
Outswing shown - inswing
also approved



2
3 **HORIZONTAL CROSS SECTION**



4
3 **HORIZONTAL CROSS SECTION**
Shown w/1X sub-buck



3
3 **HORIZONTAL CROSS SECTION**
Outswing shown - inswing
also approved

Documents Prepared By:
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RW 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:
HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS
4	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
3	8/07/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/16/20	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.

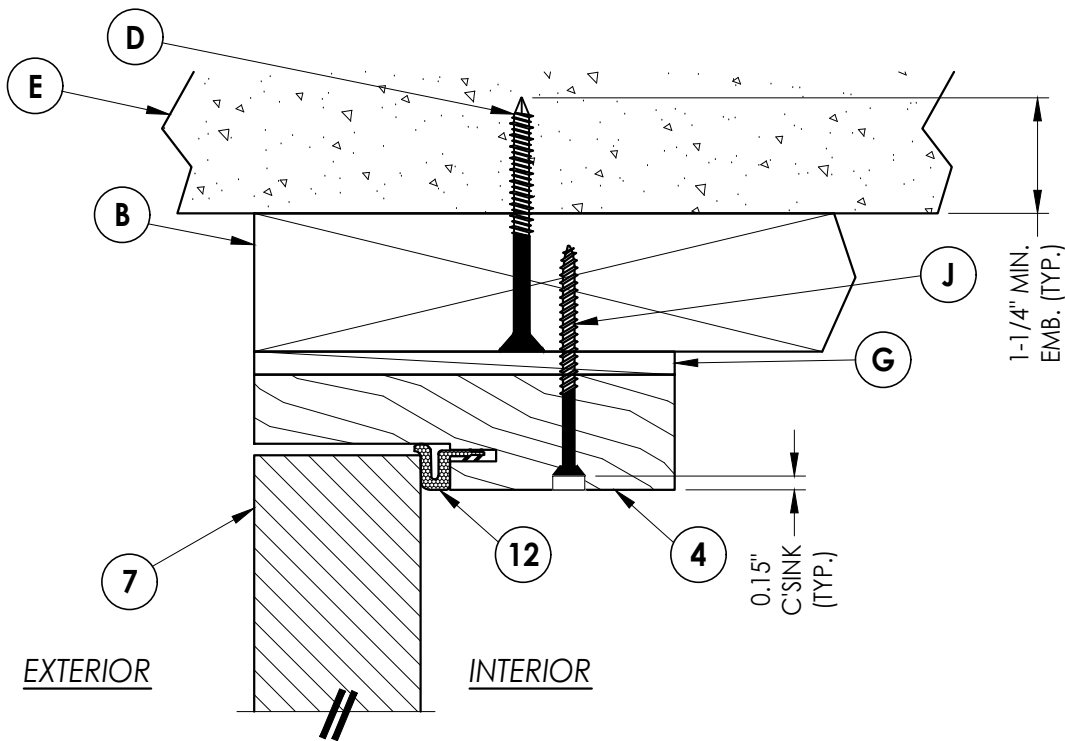
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CHK. BY: LFS

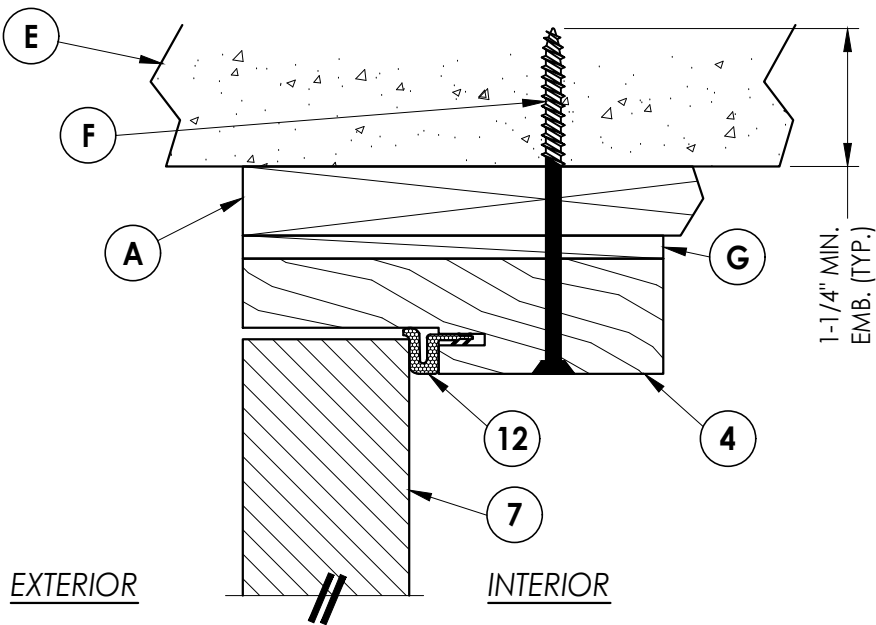
DRAWING NO.:
FL-17901.14

SHEET 3 OF 9

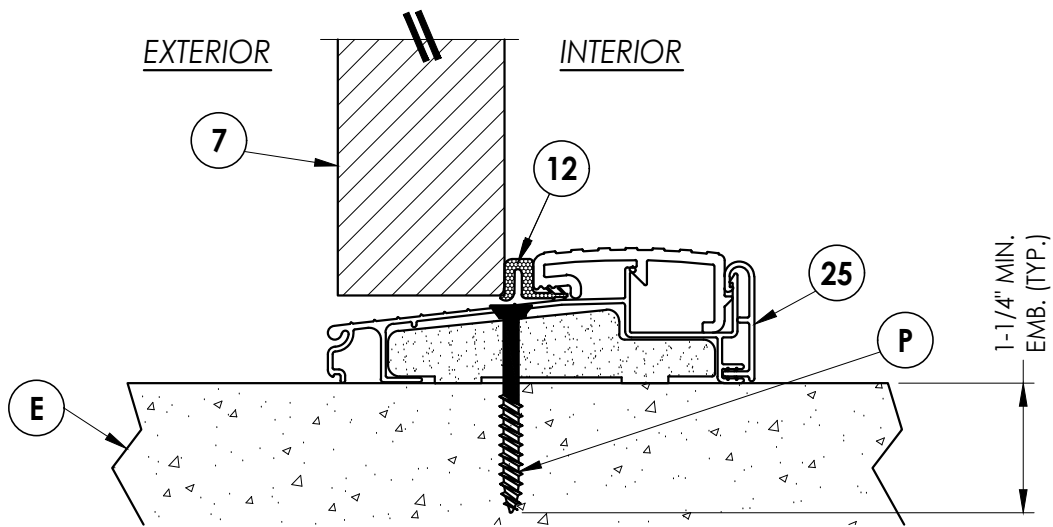
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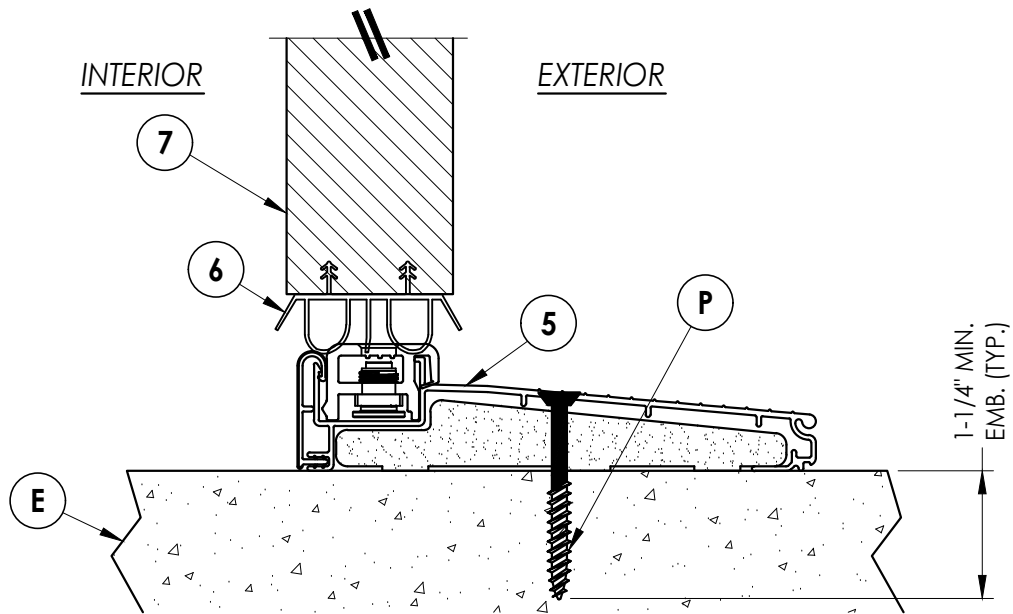
1
4 **VERTICAL CROSS SECTION**
Outswing shown - inswing
also approved



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



3
4 **VERTICAL CROSS SECTION**
Outswing sill



4
4 **VERTICAL CROSS SECTION**
Inswing sill

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FBPE Registry No. 9813

PRODUCT: STEVES AND SONS

PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS
4	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
3	8/07/23	UPDATE TO 8TH ED. (2023) FBC LFS
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1	10/08/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 7/18/15

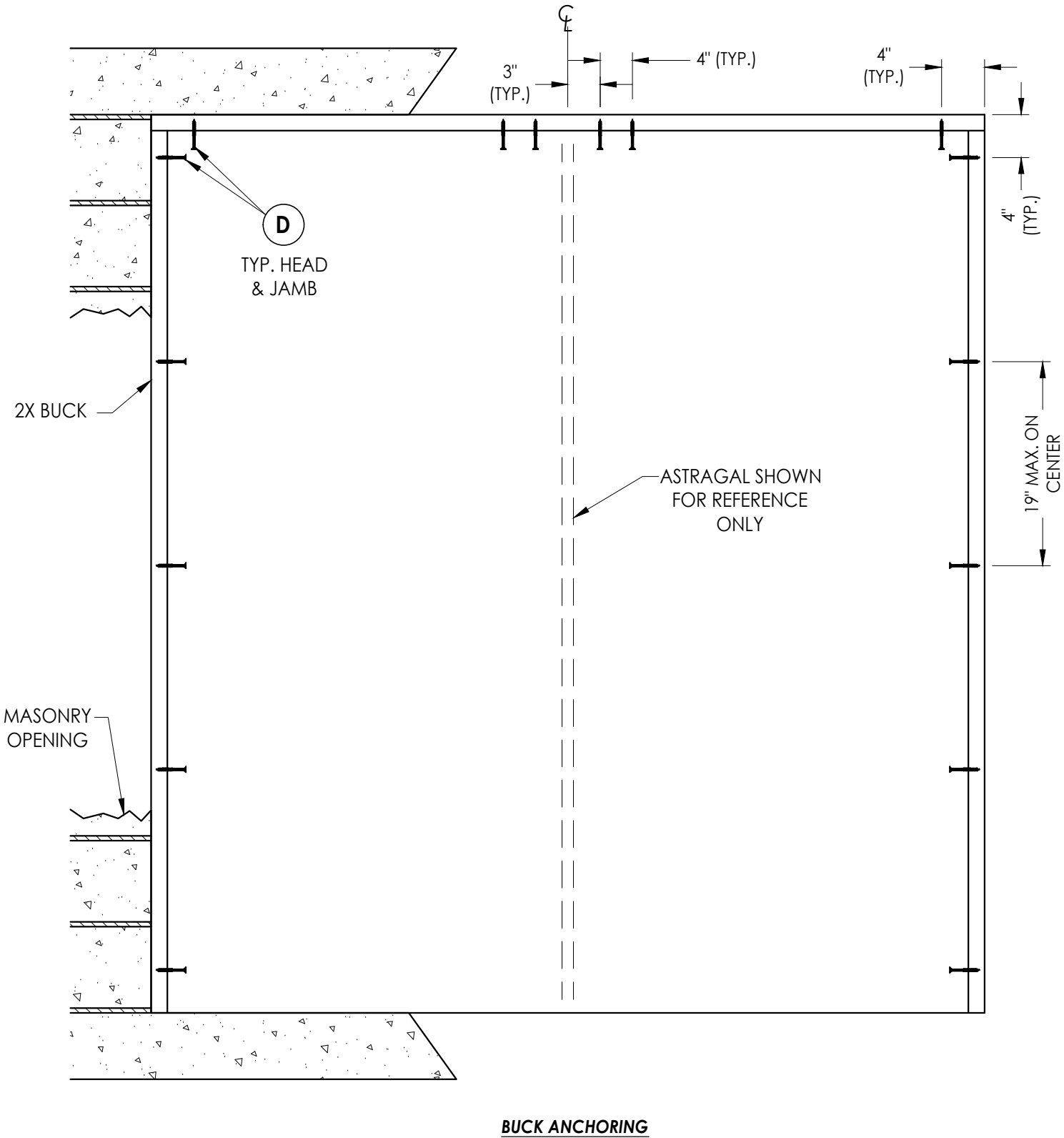
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DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-17901.14

SHEET 4 OF 9



BUCK ANCHORING

DATE: 7/18/15		PRODUCT: STEVES AND SONS		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
SCALE: N.T.S.		PART OR ASSEMBLY: BUCK ANCHORING		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-17901.14					
SHEET 5 OF 9					
		REVISIONS			
NO.	DATE				
4	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
3	8/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	9/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
1	10/08/17	UPDATE TO 6TH ED. (2017)	FBC	JK	
				BY	

31" MAX.
O.C. TYP.

This diagram illustrates the elevation view of a window frame assembly. Key components and annotations include:

- Top and Bottom Details:** The top and bottom of the window frame are shown with a 4" (TYP.) dimension for the top section and a 3" (TYP.) dimension for the bottom section. A 6" dimension is indicated for the top section's height.
- Left Side Details:** The left side of the window frame is shown with a 2X BUCK dimension and a FRAME dimension. A MASONRY OPENING is indicated on the left side.
- Right Side Details:** The right side of the window frame is shown with a 14" MAX. O.C. (TYP.) dimension.
- Internal Details:** A dashed line indicates the location of the ASTRAGAL SHOWN FOR REFERENCE ONLY. A vertical line is labeled SEE ASTRAGAL STRIKE PLATE DETAIL 2. A horizontal line is labeled SEE ASTRAGAL STRIKE PLATE DETAIL 1.
- Annotations:** A circle labeled J points to the TYP. HEAD & JAMB. A circle labeled P points to the SILL TYP.

Diagram illustrating the location of the seat belt buckle (56) and the associated note (N SEE NOTE 2).

6"

14" MAX.
O.C. (TYP.)

SEE
ASTRAGAL
DETAIL

5 5/8"

This technical drawing shows a vertical cross-section of a door or window frame. The frame is composed of multiple layers, with an outer casing and an inner sash or panel. A central astragal is shown, which is a small, rectangular component that fits into a groove in the frame. The drawing includes several dimension lines: a vertical line on the left indicates a maximum spacing of 14 inches (typical) between components, and a horizontal line at the top indicates a width of 6 inches. On the right side, a vertical dimension of 5 5/8 inches is shown, indicating the height of a specific component. A circular callout with an arrow points to the astragal, with the text 'SEE ASTRAGAL DETAIL' next to it. The drawing is a black and white line drawing, typical of architectural specifications.

4	7/01/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS
3	8/07/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
2	9/16/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
1	10/08/17	UPDATE TO 6TH ED.	(2017)	FBC	JK
NO.	DATE				BY
REVISIONS					

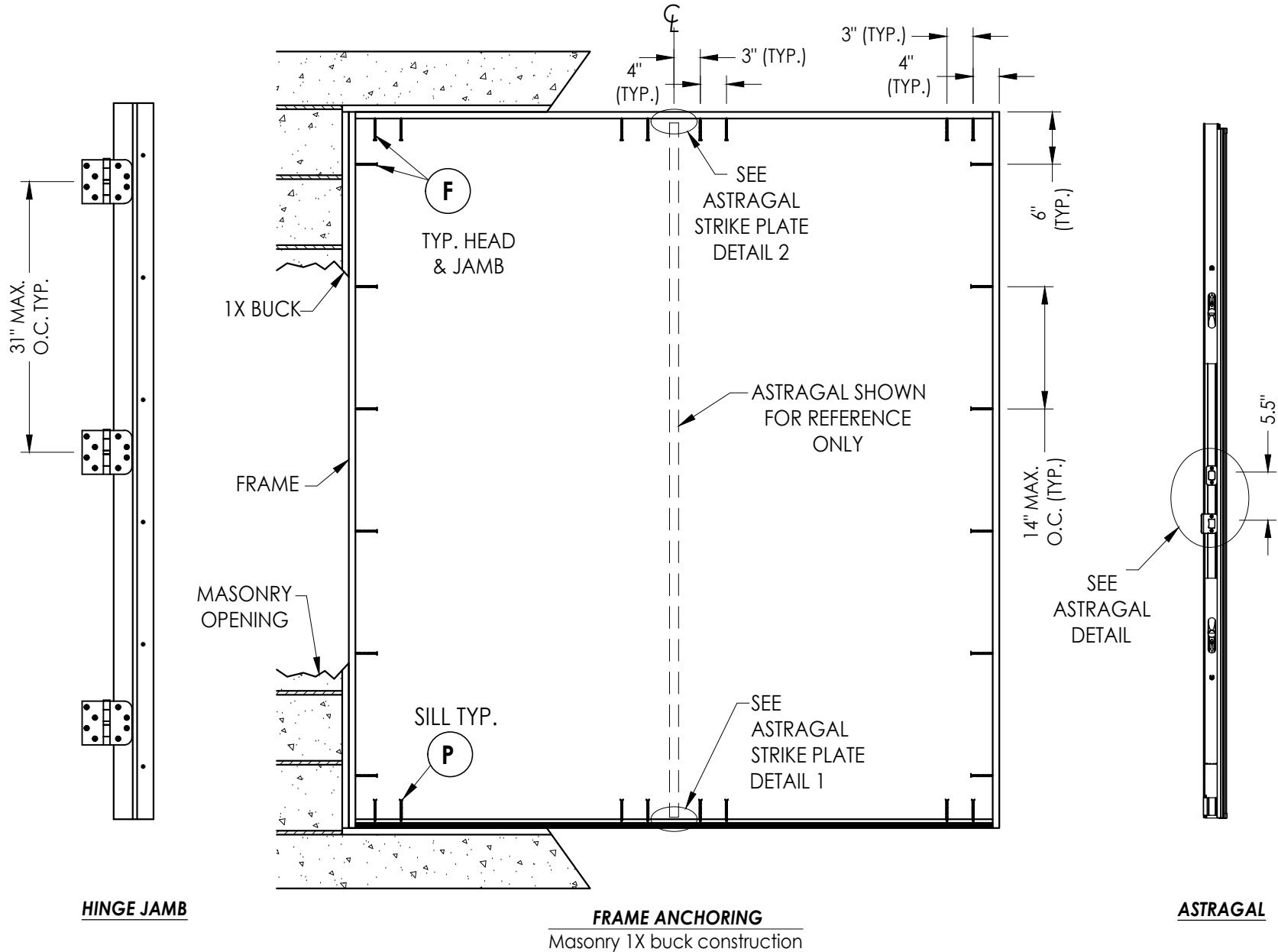
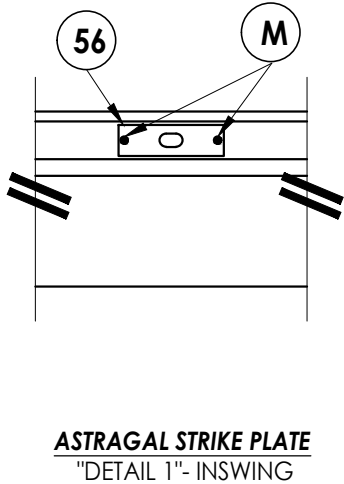
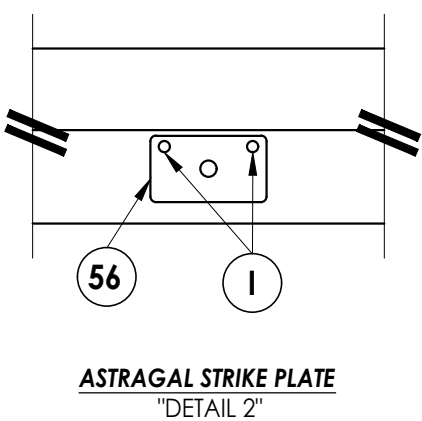
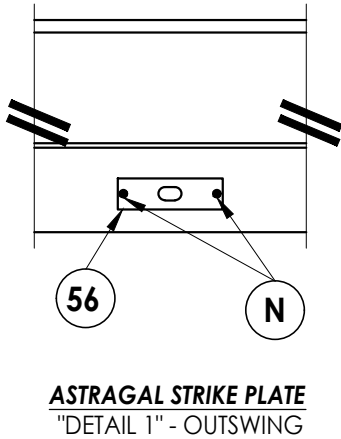
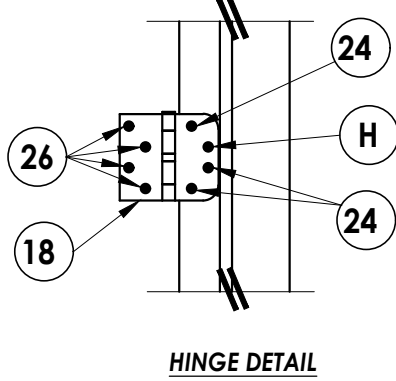
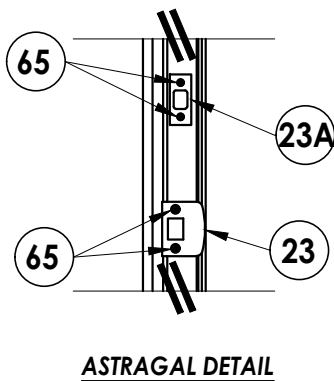
PRODUCT: STEVES AND SONS

PART OR ASSEMBLY: FRAME ANCHORING
2X BUCK MASONRY CONSTRUCTION

Documents Prepared By:
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CHK. BY:	LFS
DRAWING NO.:	FL-17901.14
SHEET	7 OF 9

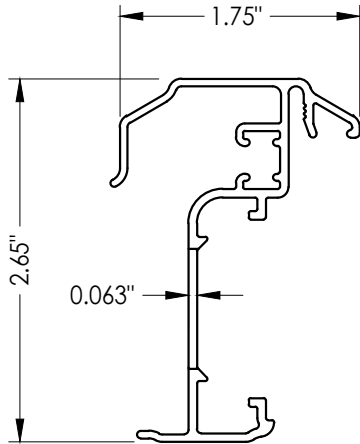
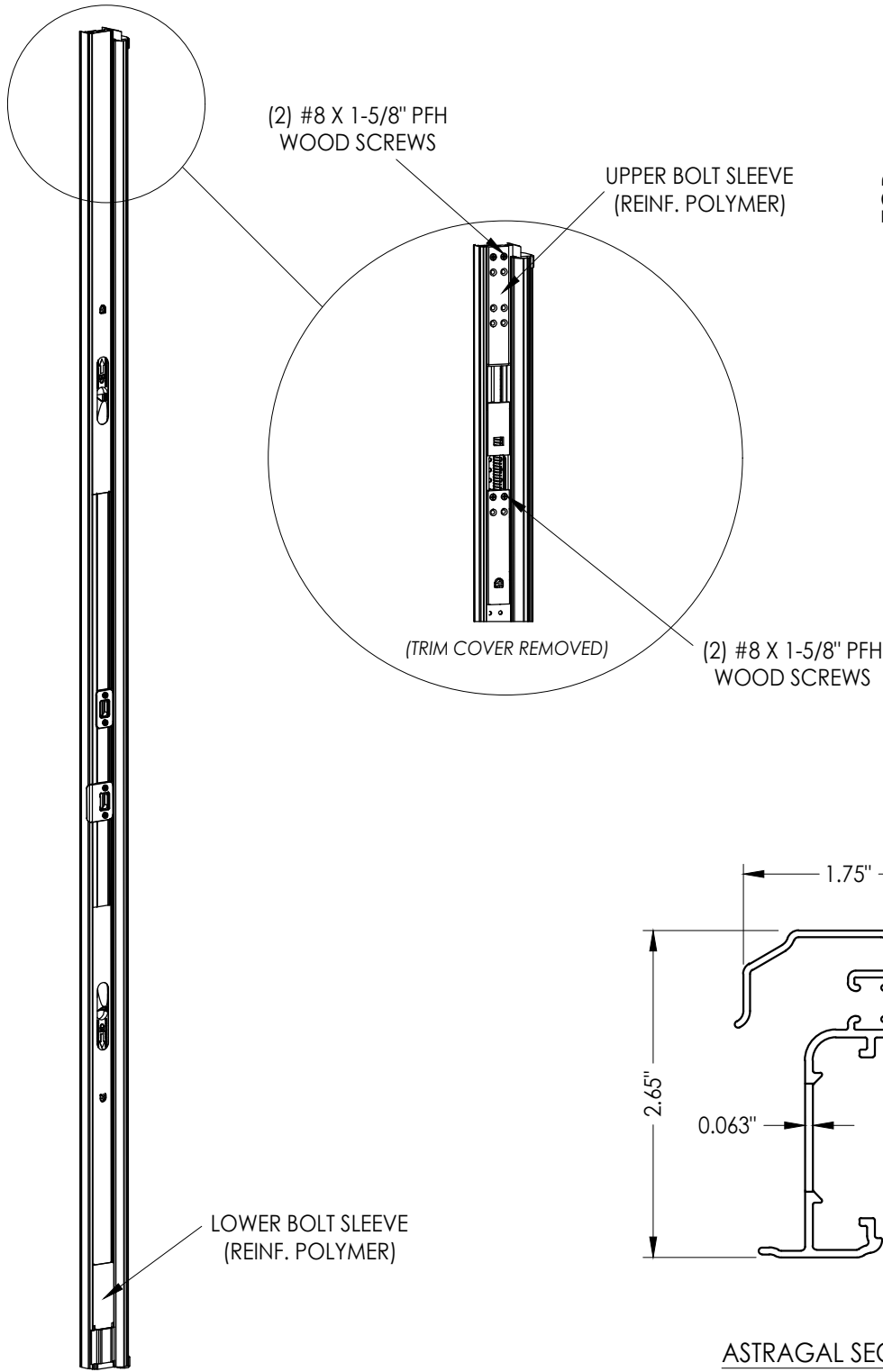
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3	8/07/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/16/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/08/17	UPDATE TO 6TH ED. (2017) FBC JK

PRODUCT:	STEVES AND SONS
PART OR ASSEMBLY:	FRAME ANCHORING 1X BUCK MASONRY CONSTRUCTION

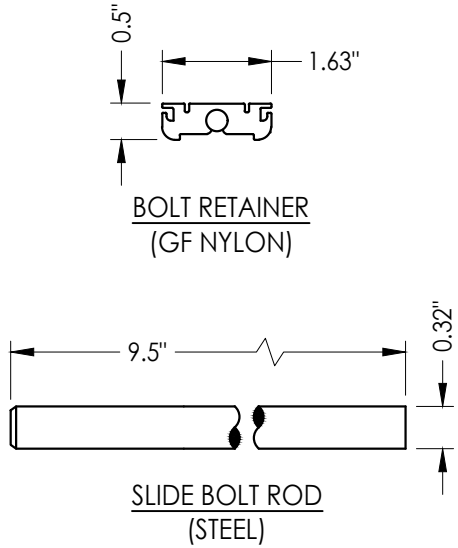
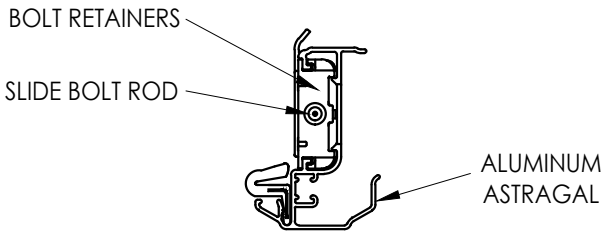
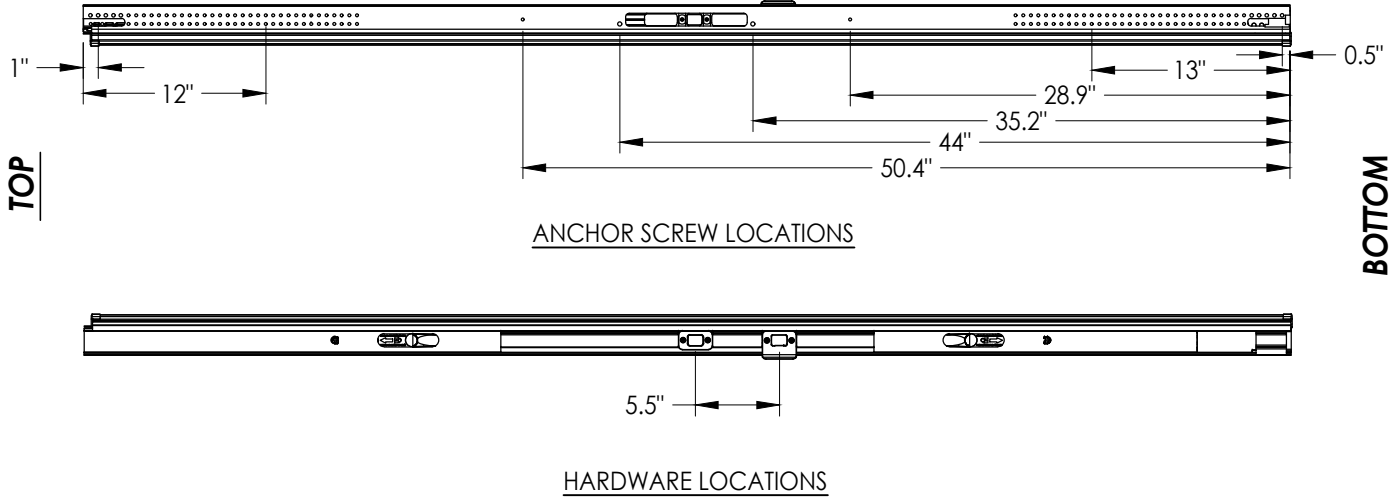
Documents Prepared By:
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P.E. No. 43409

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Phone No.: 813.659.9197
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ASTRAGAL SECTION



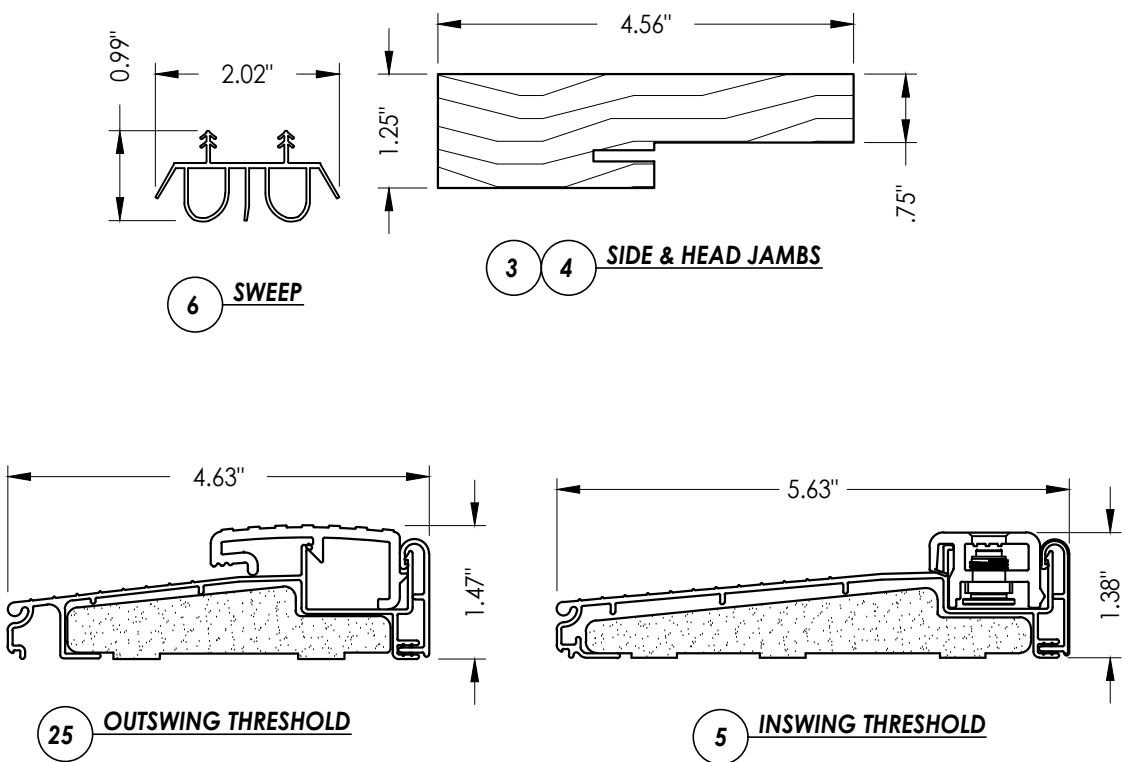
ULTIMATE HURRICANE ASTRAGAL

55 ALUMINUM ASTRAGAL
By Endura Products

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		PART OR ASSEMBLY: ENDURA ASTRAGAL DETAILS	
4	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
3	8/07/23	UPDATE TO 8TH ED. (2023) FBC	LFS
2	9/16/20	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			
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DRAWING NO.: FL-17901.14			
SHEET 8 OF 9			

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BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
D	1/4" X 2-3/4" DeWALT PFH 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 3-3/4" ITW PFH CONCRETE SCREW	STEEL
G	MAX. 1/4" SHIM SPACE	WOOD
H	1/4" X 3-1/4" ITW PFH CONCRETE SCREW	STEEL
I	3/16" X 3-3/4" ITW PFH CONCRETE SCREW	STEEL
J	#10 X 2-1/2" PFH WS (1-1/8" MIN. EMBEDMENT)	STEEL
K	#9 X 2" PFH WS	STEEL
M	3/16" X 3-1/4" ITW PFH CONCRETE SCREW	STEEL
N	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL
P	1/4" X 2-1/4" ITW CONCRETE SCREW	STEEL
3	HINGE JAMB - FINGER-JOINT PINE - SG >= 0.42	WOOD
4	HEAD - FINGER-JOINT PINE - SG >= 0.42	WOOD
5	INSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM/COMP.
6	DOOR BOTTOM SWEEP	PVC
7	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
12	WEATHER STRIP QEBD650 Q-LON	-
18	4" HINGE	STEEL
21	KWIKSET LOCK -SERIES 200 PASSAGE	STEEL
22	KWIKSET DEADBOLT -SERIES 600	STEEL
23	STRIKE PLATE	STEEL
23A	DEADBOLT STRIKE	STEEL
24	#9 X 5/8" PFH WS	STEEL
25	OUTSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.
26	#9 X 1" PFH WS	STEEL
30	LATCH AND HINGE STILE - SG >= 0.42	LVL/PVC
31	LOCK BLOCK	WOOD
33	TOP RAIL - POPLAR LVL & WPC COMBINATION	POPLAR/WPC
34	BOTTOM RAIL - POPLAR LVL & WPC COMBINATION	POPLAR/WPC
36	LITE OPENING STILE REINF. (SG>= 0.42)	WOOD
39	FIBERGLASS SKIN 0.079" MIN. THICKNESS (Fy = 5,200 PSI MIN.)	FIBERGLASS
40	#8 X 1-1/2" PANHEAD SMS (LIGHT FRAME SCREW)	STEEL
43	FEMALE LITE FRAME	PC/ASA
44	MALE LITE FRAME	PC/ASA
45	HOT MELT SEALANT	BUTYL
46	INSULATED FOAM CORE	POLYURETHANE
47	SILICONE SEALANT	SILICONE
48	PL PREMIUM POLYURETHANE ADHESIVE	POLYURETHANE
55	ULTIMATE HURRICANE ASTRAGAL (ENDURA)	ALUMINUM
56	ASTRAGAL STRIKE PLATE	STEEL
57	#8 X 2-1/2" PFH WOOD SCREW	STEEL
65	#8 X 2-1/4" PFH WOOD SCREW	STEEL
66	#8 X 1" PFH WOOD 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"	1-1/4"	2"	4"
DeWALT ULTRAICON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

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. 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				PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS				
				4	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
				3	8/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
				2	9/16/20	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-17901.14								
SHEET 9 OF 9								