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

Digitally signed by Lyndon F Schmidt
Date: 2026.07.07 14:55:39 -04'00'

L. F. SCHMIDT LICENSE No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER

This item has been digitally signed and sealed by **L. F. Schmidt, P.E.** on the date adjacent to the seal.

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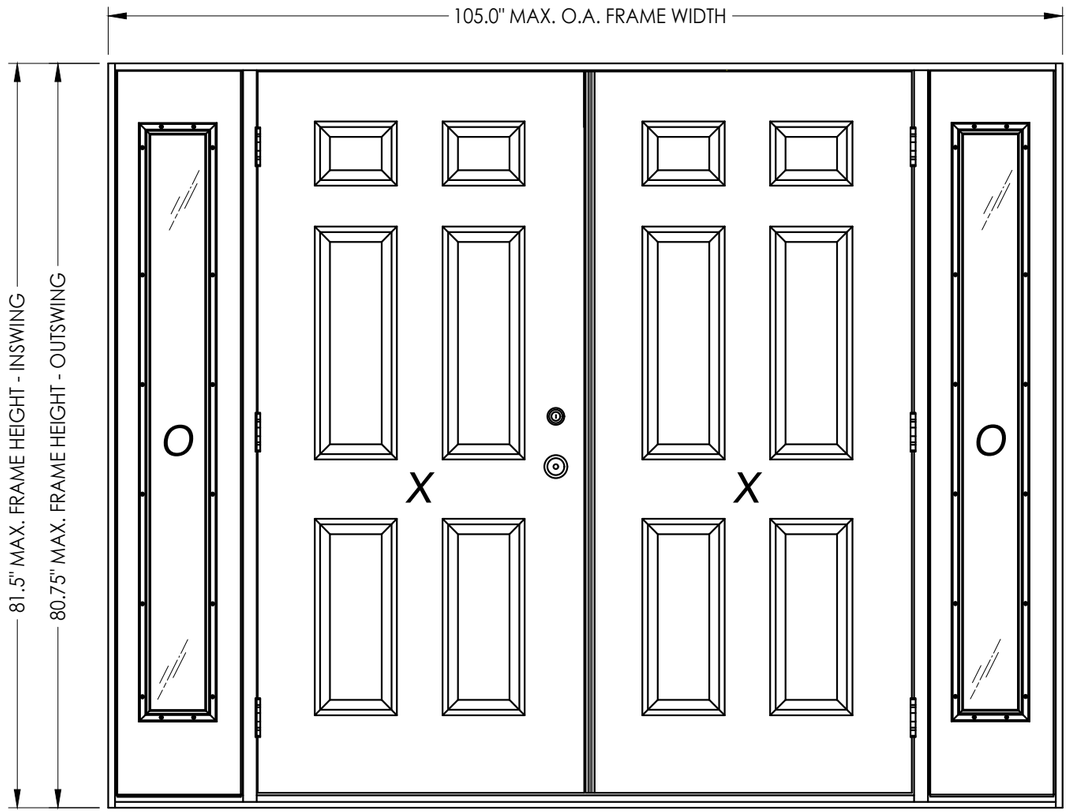
THIS PRODUCT APPROVAL IS VALID ONLY FOR THE STATE OF FLORIDA

OPAQUE STEEL DOUBLE DOOR w/ SIDELITES

INSWING / OUTSWING

"NON-IMPACT"



CONTINUOUS HEAD & SILL

SWING	*MAX. FRAME DIMENSION*	*GLASS TYPE*	*DESIGN PRESSURE (PSF)*	
			POSITIVE	*NEGATIVE*
INSWING	**105.0" x 81.5"**	**G1**	**+50.0**	**-55.0**
OUTSWING	**105.0" x 80.75"**		**+50.0**	**-50.0**

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).
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.

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SHEET#	*DESCRIPTION*
1	Typical elevation, design pressures & general notes
2	Door panel construction details
3	Sidelite panel construction & glazing details
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6	Vertical cross sections
7	Buck and frame anchoring - 2X buck masonry construction
8	Frame anchoring - 1X buck masonry construction
9	Astragal details
10	Bill of materials and components

Documents Prepared By:
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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: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS	BY
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

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SHEET 1 OF 10

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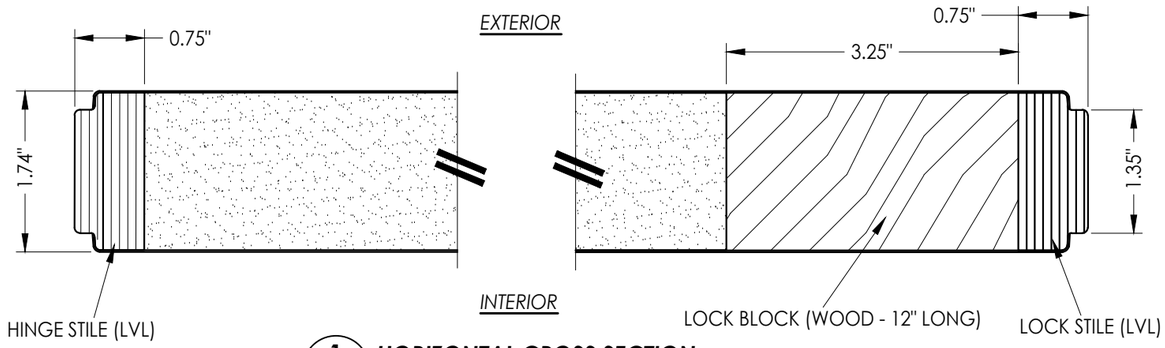
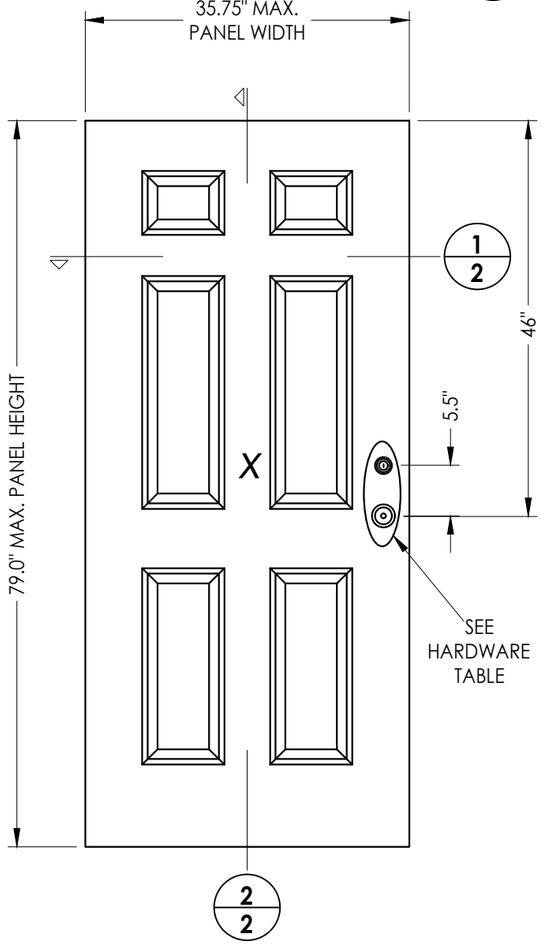
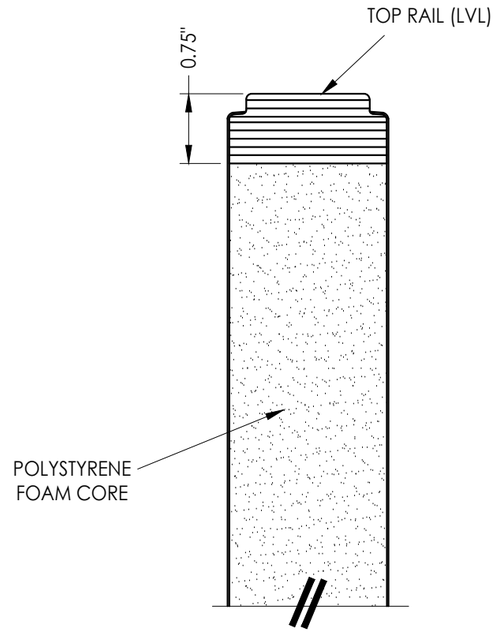


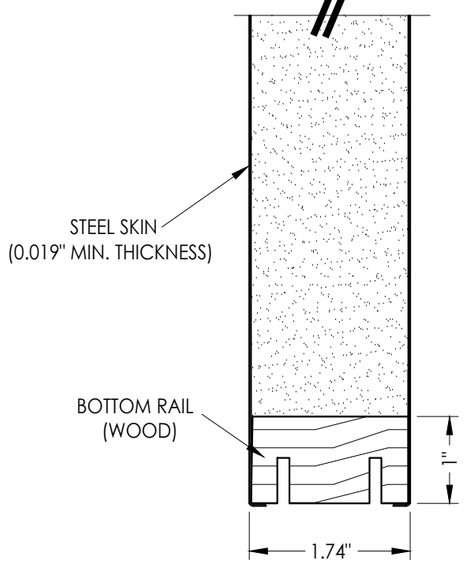
1/2 ***HORIZONTAL CROSS SECTION***



40 ***STEEL DOOR***
OPAQUE

HARDWARE TABLE	
MANUFACTURER	*MODEL*
KWIKSET	KNOB: SERIES (400) DEADBOLT: SERIES (660)





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

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FBPE Registry No. 9813

PRODUCT: *STEVES AND SONS*

PART OR ASSEMBLY: *DOOR PANEL CONSTRUCTION DETAILS*

NO.	DATE	REVISIONS	BY
4	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
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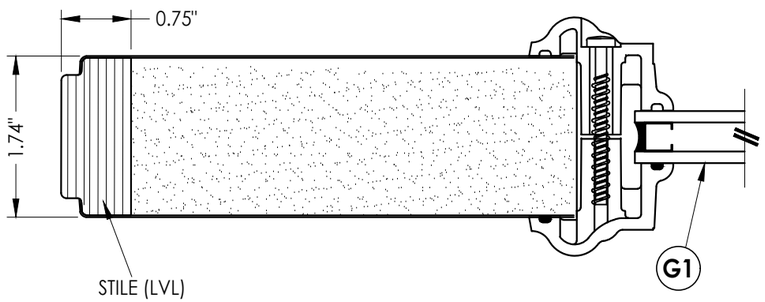
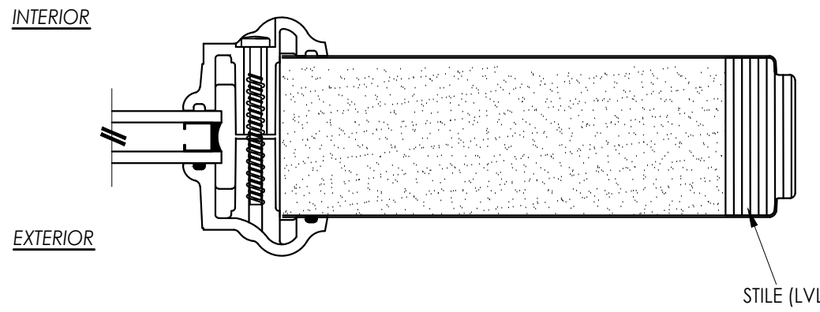
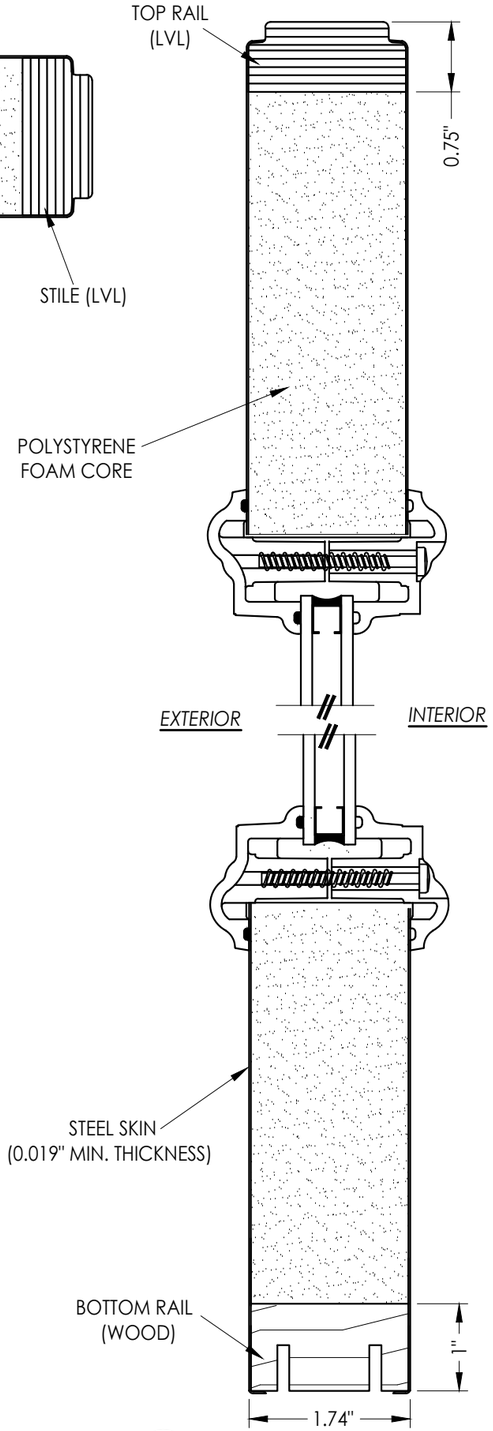
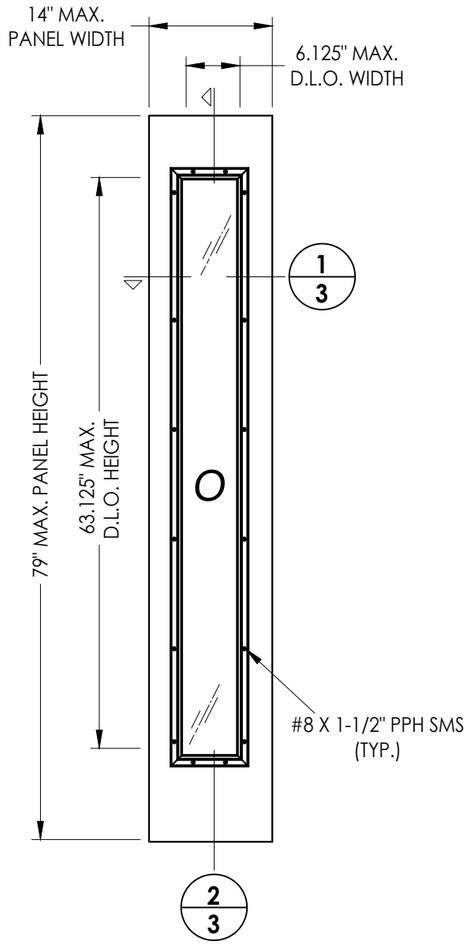




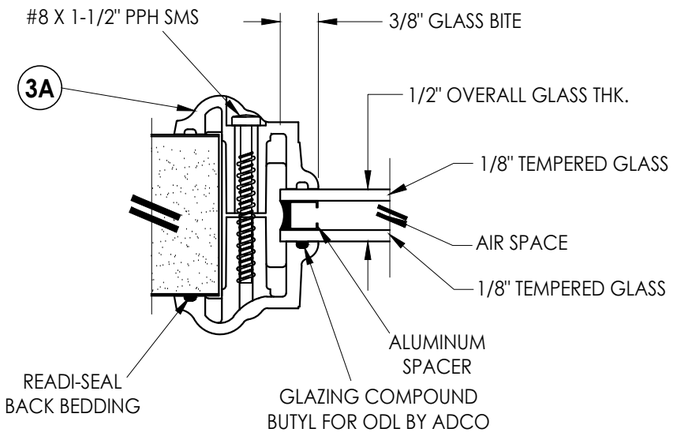
1/3 **HORIZONTAL CROSS SECTION**



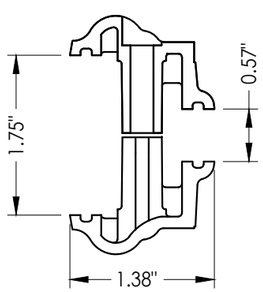
2/3 **VERTICAL CROSS SECTION**



50 **SIDELITE PANEL**



G1 **GLAZING DETAIL**
ODL Lite Frame



3A **ODL LITE FRAME**
HP Polypropylene

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PRODUCT: STEVES AND SONS

PART OR ASSEMBLY: SIDELITE PANEL CONSTRUCTION & GLAZING DETAILS

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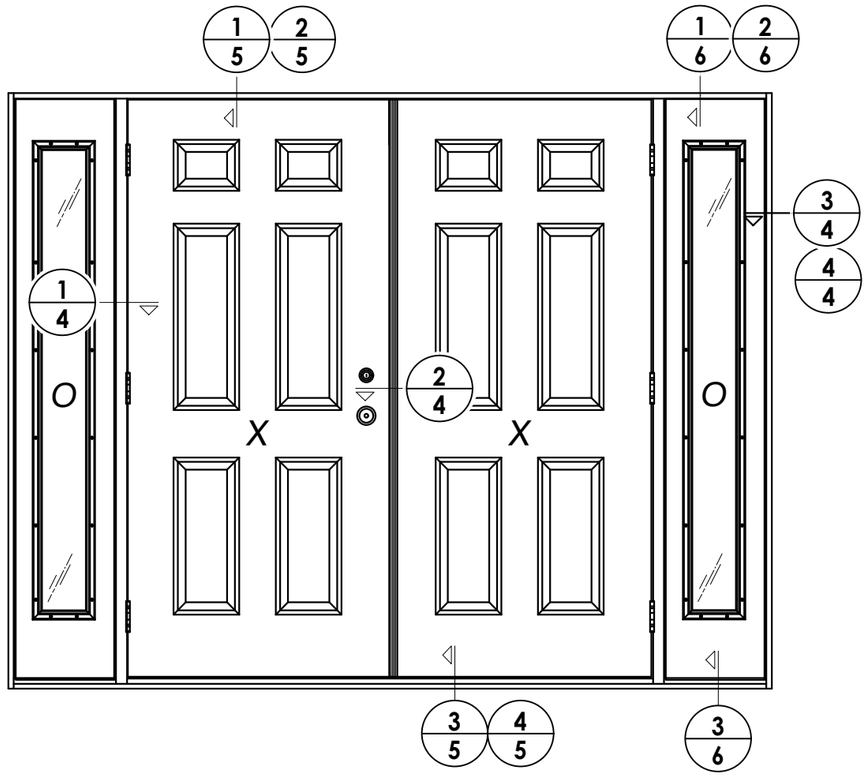
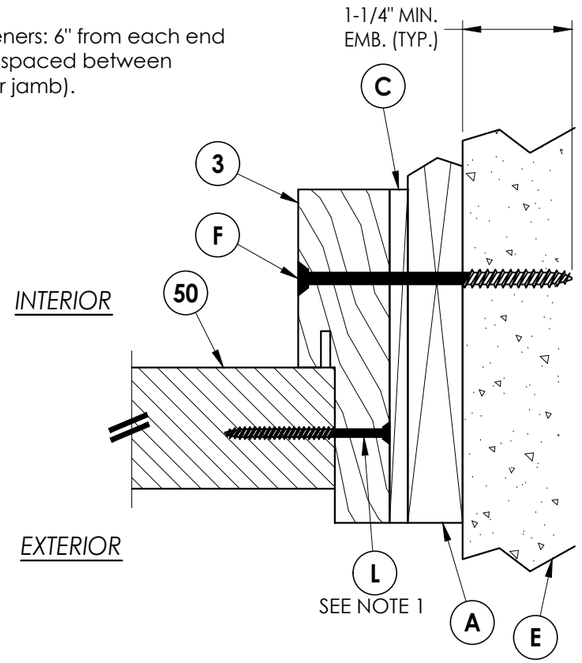
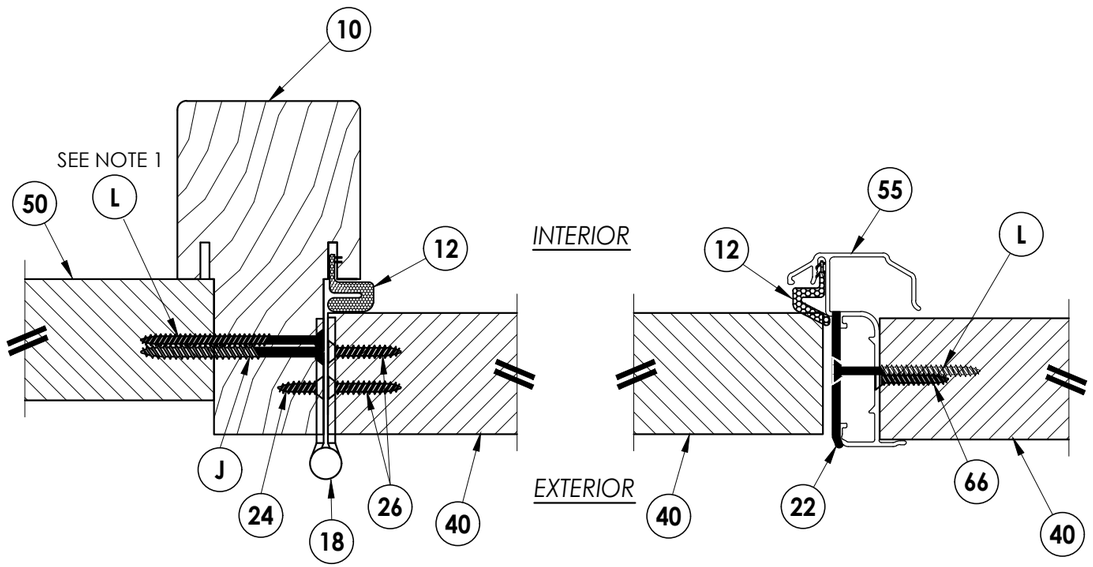


NOTE:

1. Sidelite ass'y fasteners: 6" from each end & 3 more equally spaced between (5 screws total per jamb).

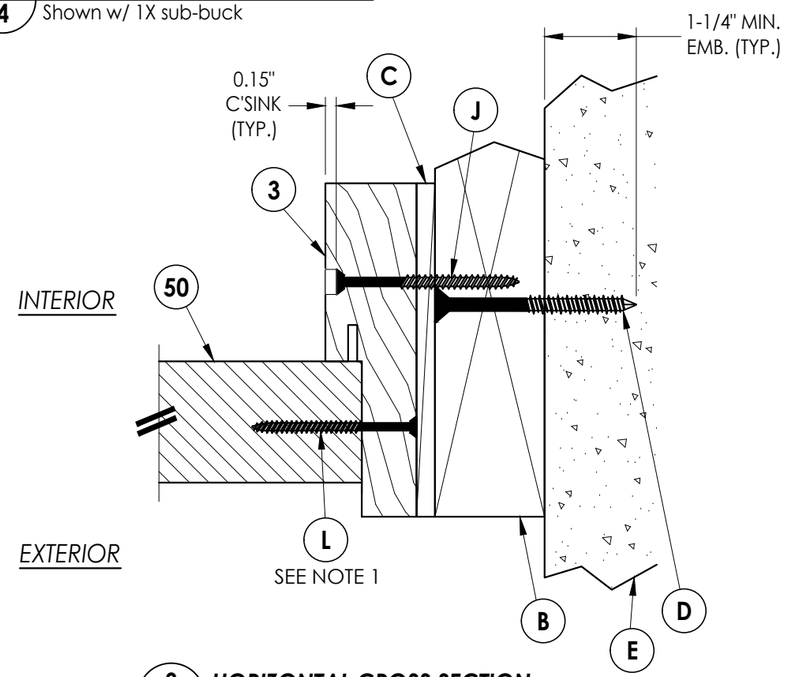


4/4 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck



1/4 HORIZONTAL CROSS SECTION
Outswing shown - inswing also approved

2/4 HORIZONTAL CROSS SECTION
Outswing shown - inswing also approved



3/4 HORIZONTAL CROSS SECTION
Outswing shown - inswing also approved

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PRODUCT: *STEVES AND SONS*

PART OR ASSEMBLY: *HORIZONTAL CROSS SECTIONS*

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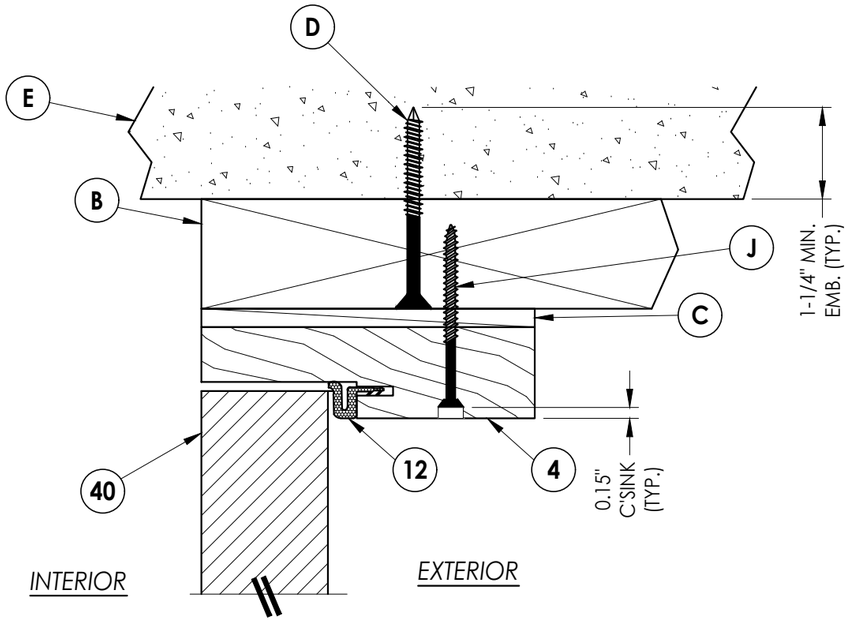
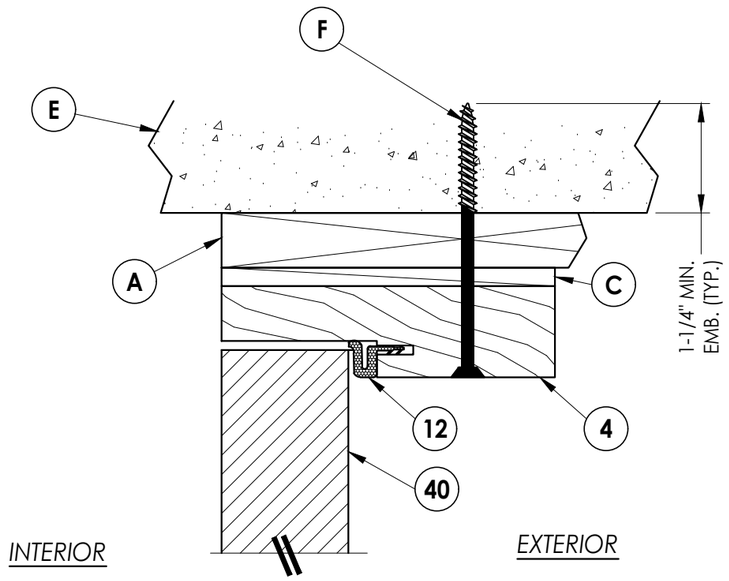
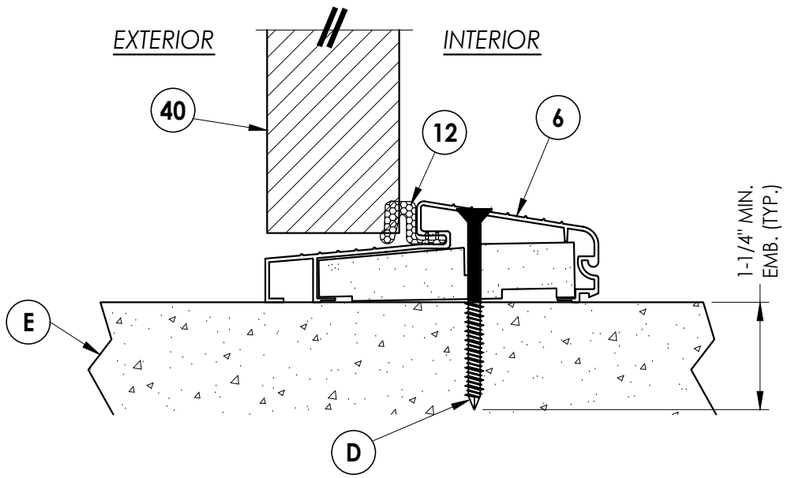


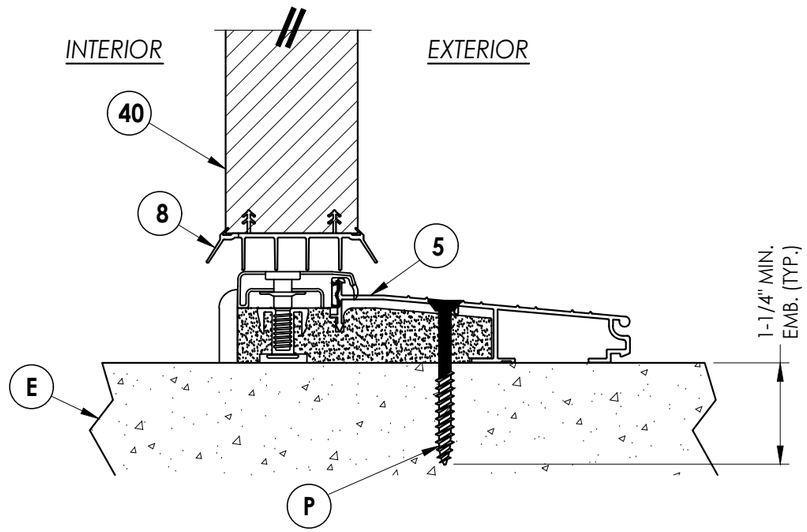
1/5 **VERTICAL CROSS SECTION**
Inswing shown - outswing also approved



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



3/5 **VERTICAL CROSS SECTION**
Outswing sill



4/5 **VERTICAL CROSS SECTION**
Inswing sill

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PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

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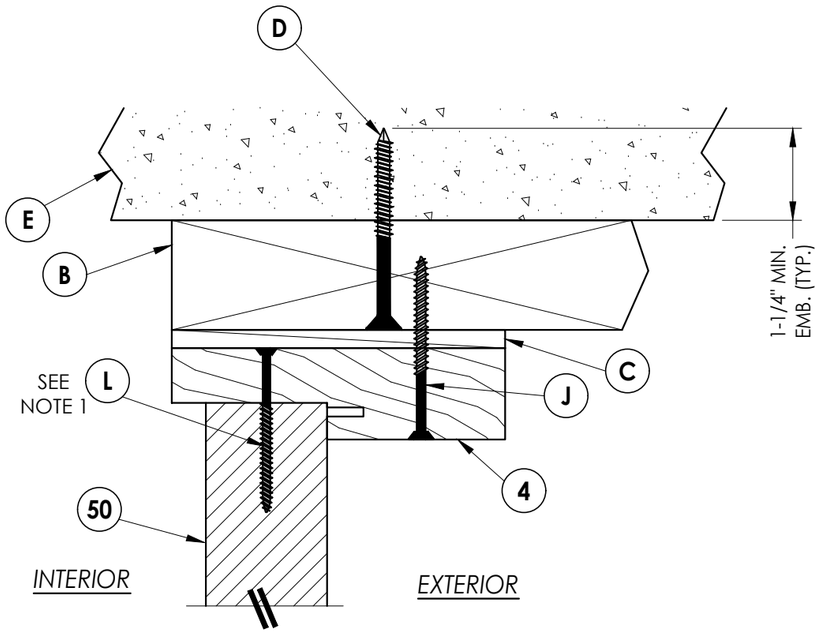
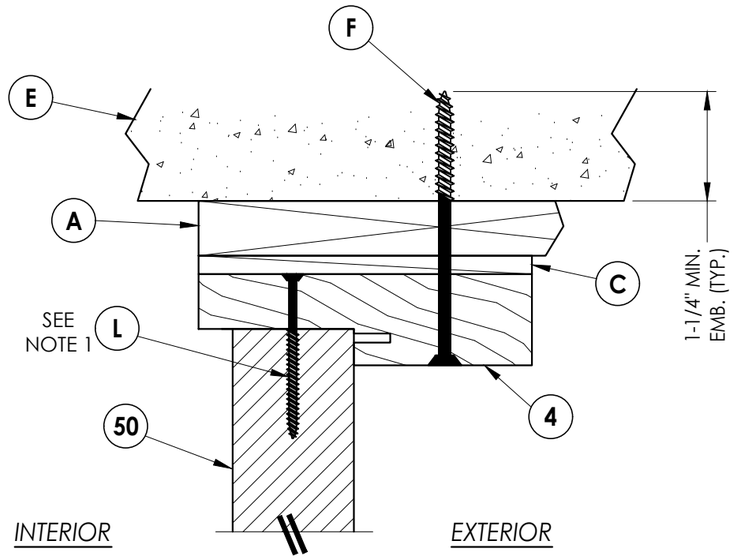


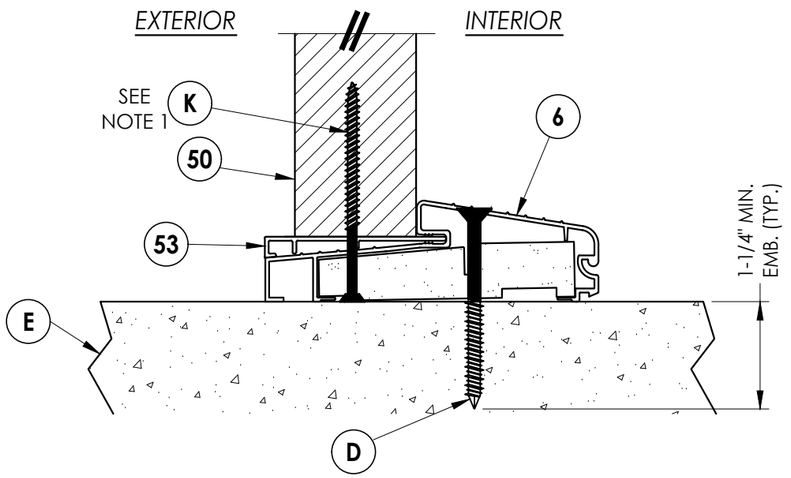
1/6 VERTICAL CROSS SECTION
Inswing shown - outswing also approved



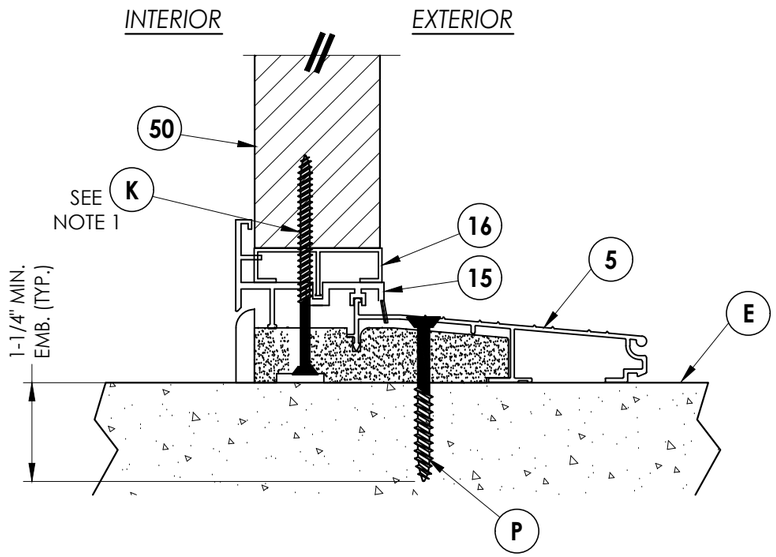
2/6 VERTICAL CROSS SECTION
Shown w/1X sub-buck

NOTE:

1. Screws thru head and sill located 3" from each end and on center line.



3/6 VERTICAL CROSS SECTION
Outswing sill



4/6 VERTICAL CROSS SECTION
Inswing sill

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PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

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4	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
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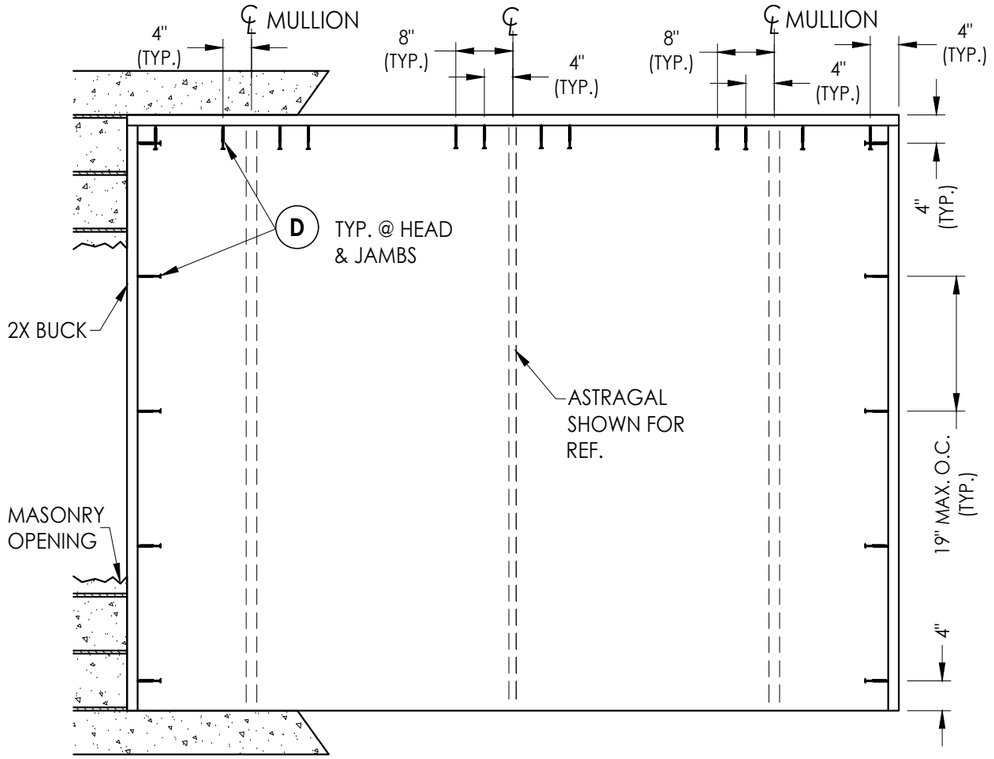
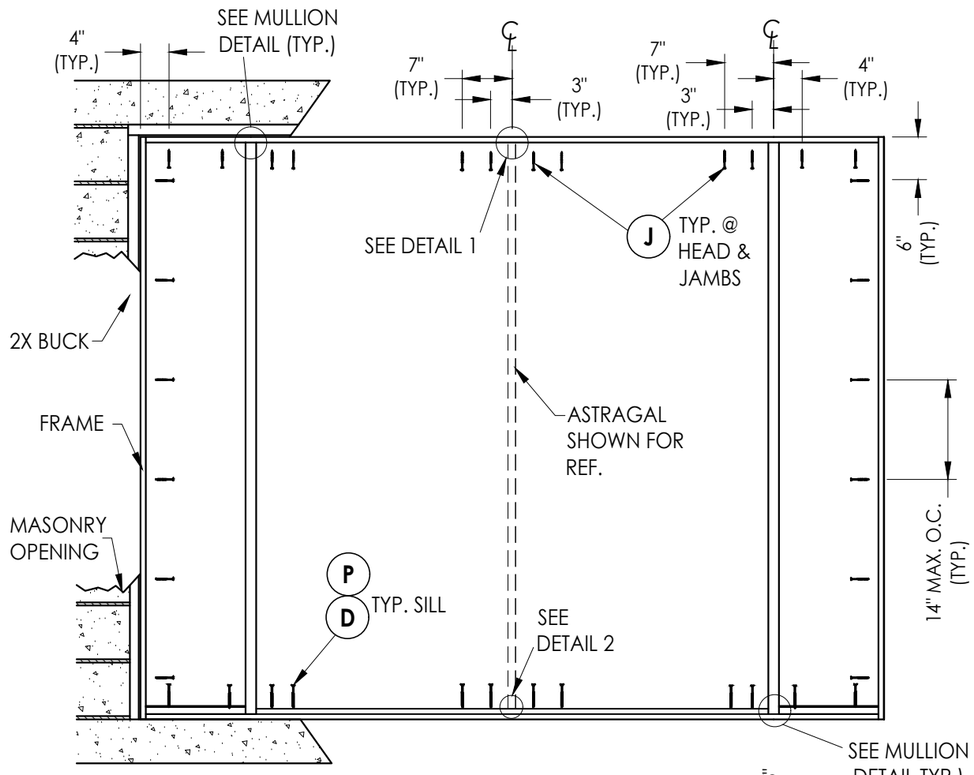
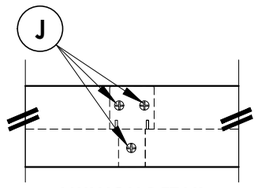


BUCK ANCHORING



FRAME ANCHORING



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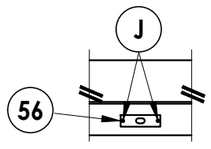
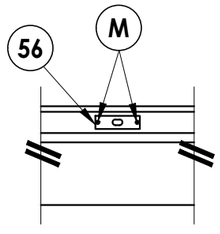
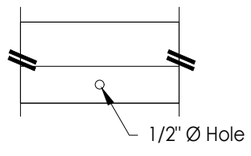


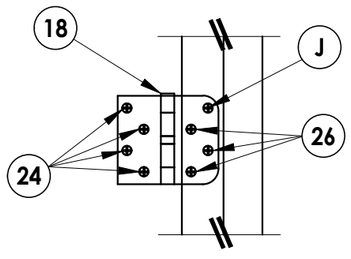
DETAIL 1
Strike Plate @ Head



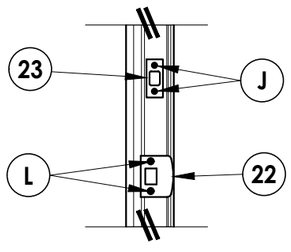
DETAIL 2
Strike Plate @ Sill
(Inswing)



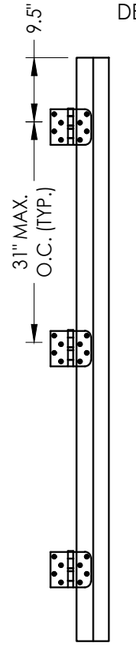
DETAIL 2
Strike Plate @ Sill
(Outswing)



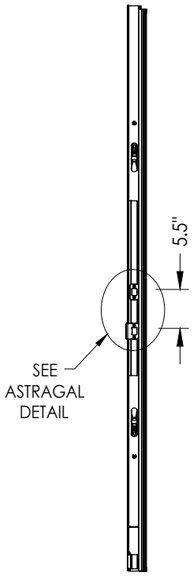
HINGE DETAIL



ASTRAGAL STRIKE DETAIL



HINGE JAMB



ASTRAGAL

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PRODUCT: STEVES AND SONS

PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING
2X BUCK MASONRY CONSTRUCTION

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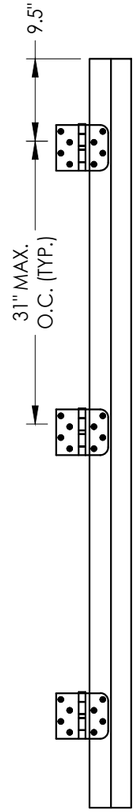

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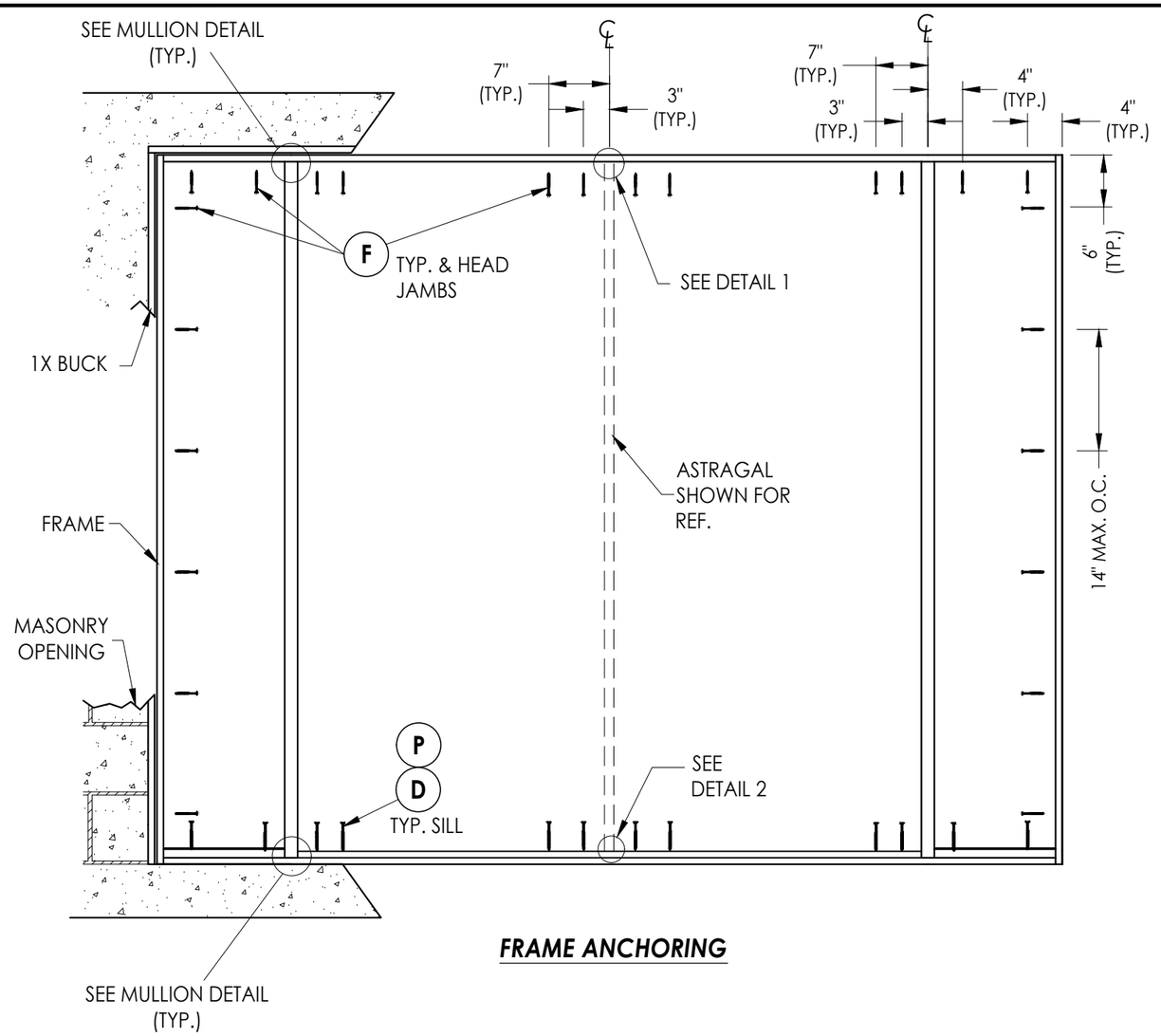
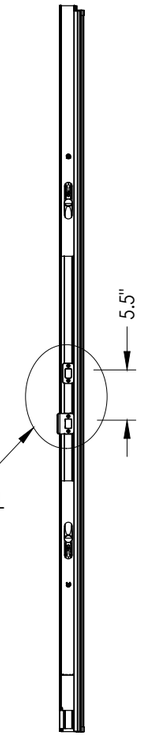
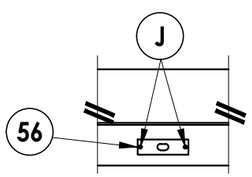


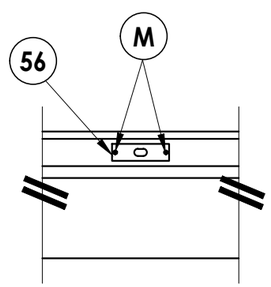
FRAME ANCHORING



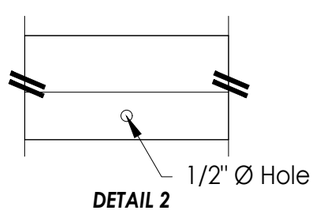
ASTRAGAL



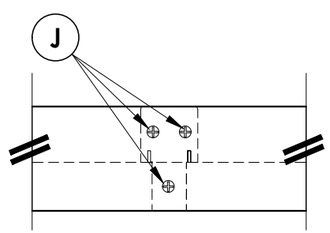
DETAIL 1
Strike Plate @ Head



DETAIL 2
Strike Plate @ Sill
(Inswing)



DETAIL 2
Strike Plate @ Sill
(Outswing)



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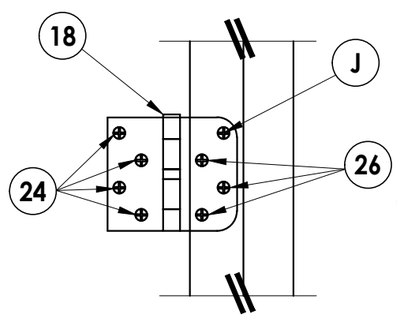

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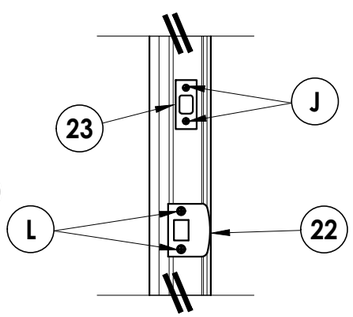

ASTRAGAL STRIKE DETAIL

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

PRODUCT:
STEVES AND SONS

PART OR ASSEMBLY:
FRAME ANCHORING
BUCK MASONRY CONSTRUCTION
1X BUCK

NO.	DATE	REVISIONS	BY
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

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CHK. BY: LFS
DRAWING NO.: FL-17903.12
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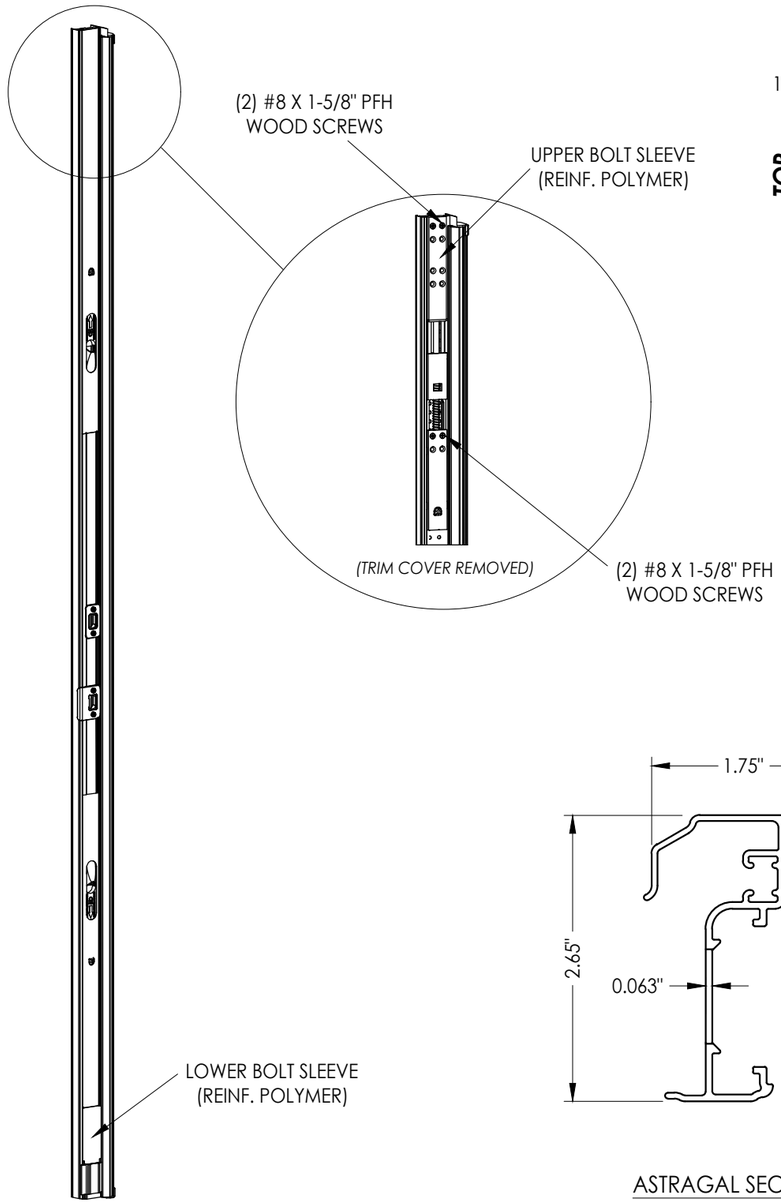
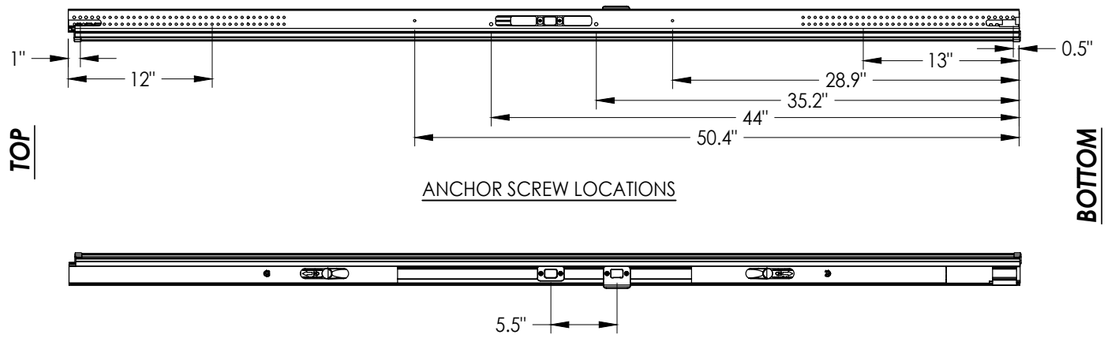
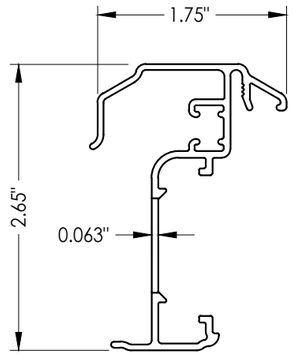


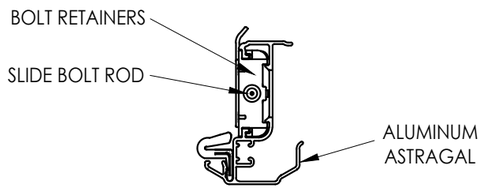


ANCHOR SCREW LOCATIONS

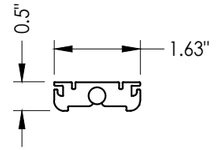
HARDWARE LOCATIONS



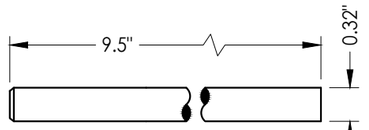
ASTRAGAL SECTION



55 ***ALUMINUM ASTRAGAL***
By Endura Products



BOLT RETAINER
(GF NYLON)



SLIDE BOLT ROD
(STEEL)

ULTIMATE HURRICANE ASTRAGAL

Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT: *STEVES AND SONS*

PART OR ASSEMBLY: *ASTRAGAL DETAILS*

NO.	DATE	REVISIONS	BY
4	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
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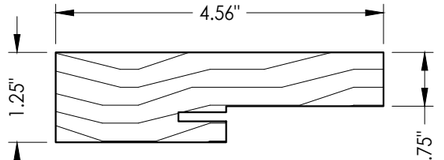
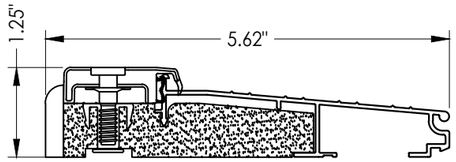
BILL OF MATERIALS

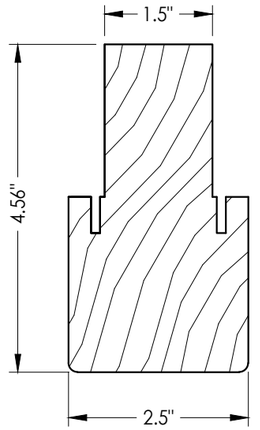
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
H	1/4" X 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
J	#10 X 2-1/2" PFH WS (1.15" MIN. JAMB EMBEDMENT)	STEEL
K	#8 X 3" PFH WS	STEEL
L	#8 X 2-1/2" PFH WS	STEEL
M	3/16" X 3-1/4" ITW PFH CONCRETE SCREW	STEEL
P	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
3	SIDE JAMB - FINGER-JOINT PINE (SG >= 0.42)	WOOD
4	HEAD - FINGER-JOINT PINE (SG >= 0.42)	WOOD
5	INSWING THRESHOLD	ALUM/COMP
6	OUTSWING THRESHOLD	ALUM/COMP
8	DOOR BOTTOM SWEEP	-
10	MULLION (PINE: SG >= 0.42)	WOOD
12	WEATHER STRIP (Q-LON)	FOAM
15	SIDELITE BASE (OUTSWING THRESHOLD)	PVC
16	SIDELITE INSERT (INSWING THRESHOLD)	PVC
17	SIDELITE SPACER (INSWING THRESHOLD)	PVC
18	4" X 4" HINGE	STEEL
22	LATCH STRIKE PLATE	STEEL
23	DEADBOLT STRIKE	STEEL
24	#10 X 3/4" PFH WS	STEEL
26	#10 X 1" PFH WS	STEEL
40	STEEL DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
50	STEEL SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
55	ULTIMATE HURRICANE ASTRAGAL (ENDURA)	ALUM
56	ASTRAGAL STRIKE PLATE	STEEL
66	#8 X 1" PFH WOOD SCREW	STEEL



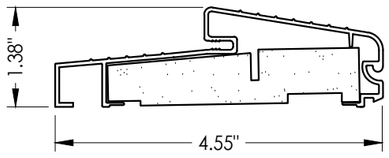
4 3 **SIDE & HEAD JAMBS**



5 **INSWING THRESHOLD**
AFCO



10 **MULLION**



6 **OUTSWING THRESHOLD**
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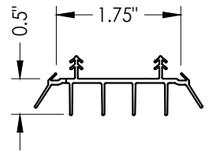
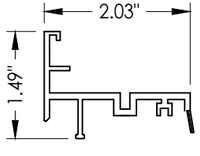
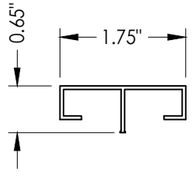


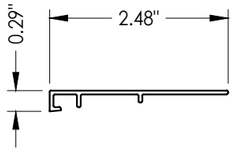
8 **SWEEP**



15 **SIDELITE BASE**
AFCO



16 **SIDELITE INSERT**
AFCO



17 **SIDELITE SPACER**
AFCO

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.

Documents Prepared By:
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PRODUCT: STEVES AND SONS

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

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