



STEVE'S AND SONS

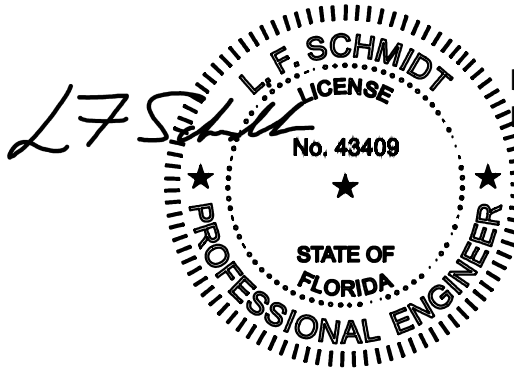
203 Humble Ave.
San Antonio, TX 78225

GLAZED STEEL DOUBLE DOOR
IN SWING / OUT SWING
"NON-IMPACT"

GENERAL NOTES

- 1. This product anchoring drawing has been evaluated and is in compliance with the 8th Edition (2023) 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.

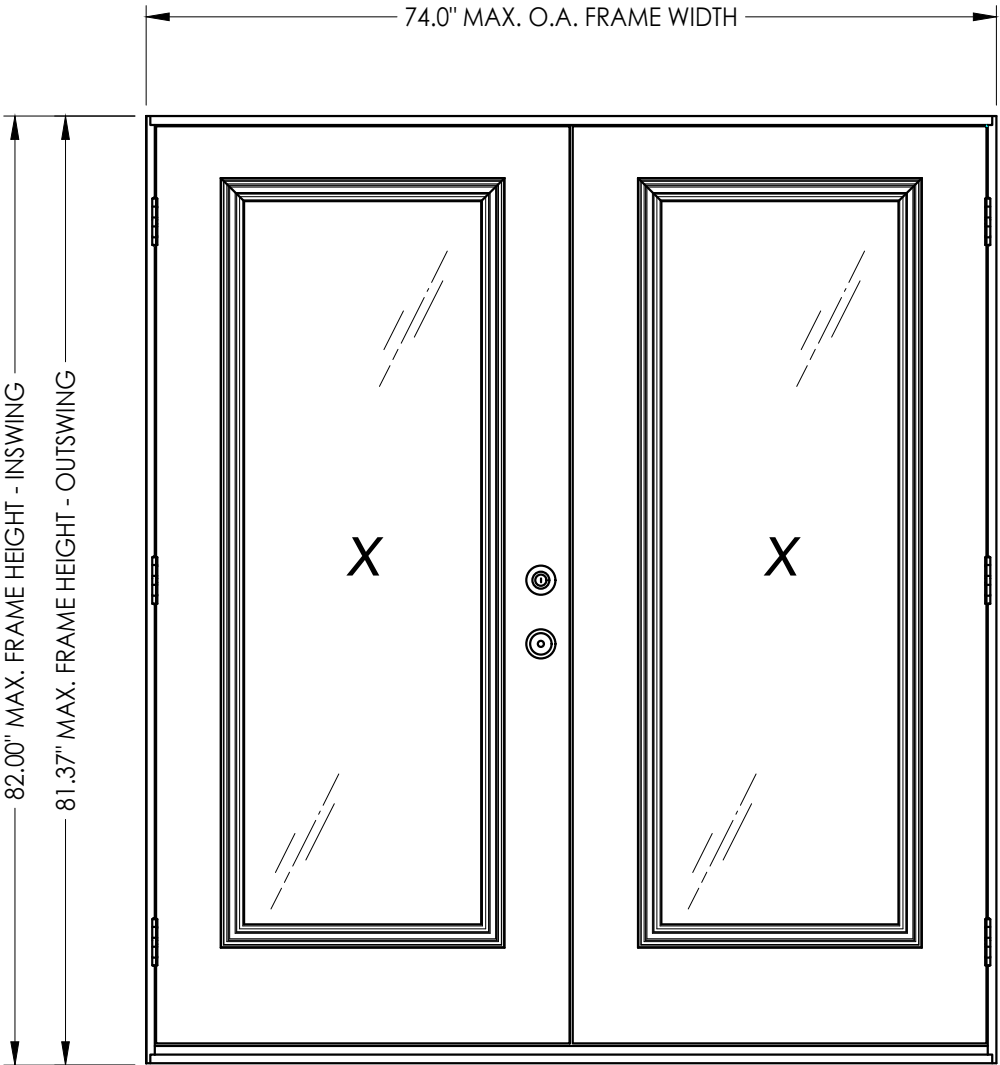
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Door panel construction details and glazing detail
3	Horizontal cross sections
4	Vertical cross sections
5	Buck and frame anchoring - 2X buck masonry construction
6	Frame anchoring - 1X buck masonry construction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



Digitally signed by Lyndon F Schmidt
Date: 2023.08.07 09:30:36 -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
IN SWING	74.0" x 82.00"	G1	+30.0	-30.0
OUT SWING	74.0" x 81.37"		+30.0	-35.0

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

STEVE'S AND SONS

PRODUCT:

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

REVISIONS

DATE: 7/18/15

SCALE: N.T.S.

DWG. BY: JK

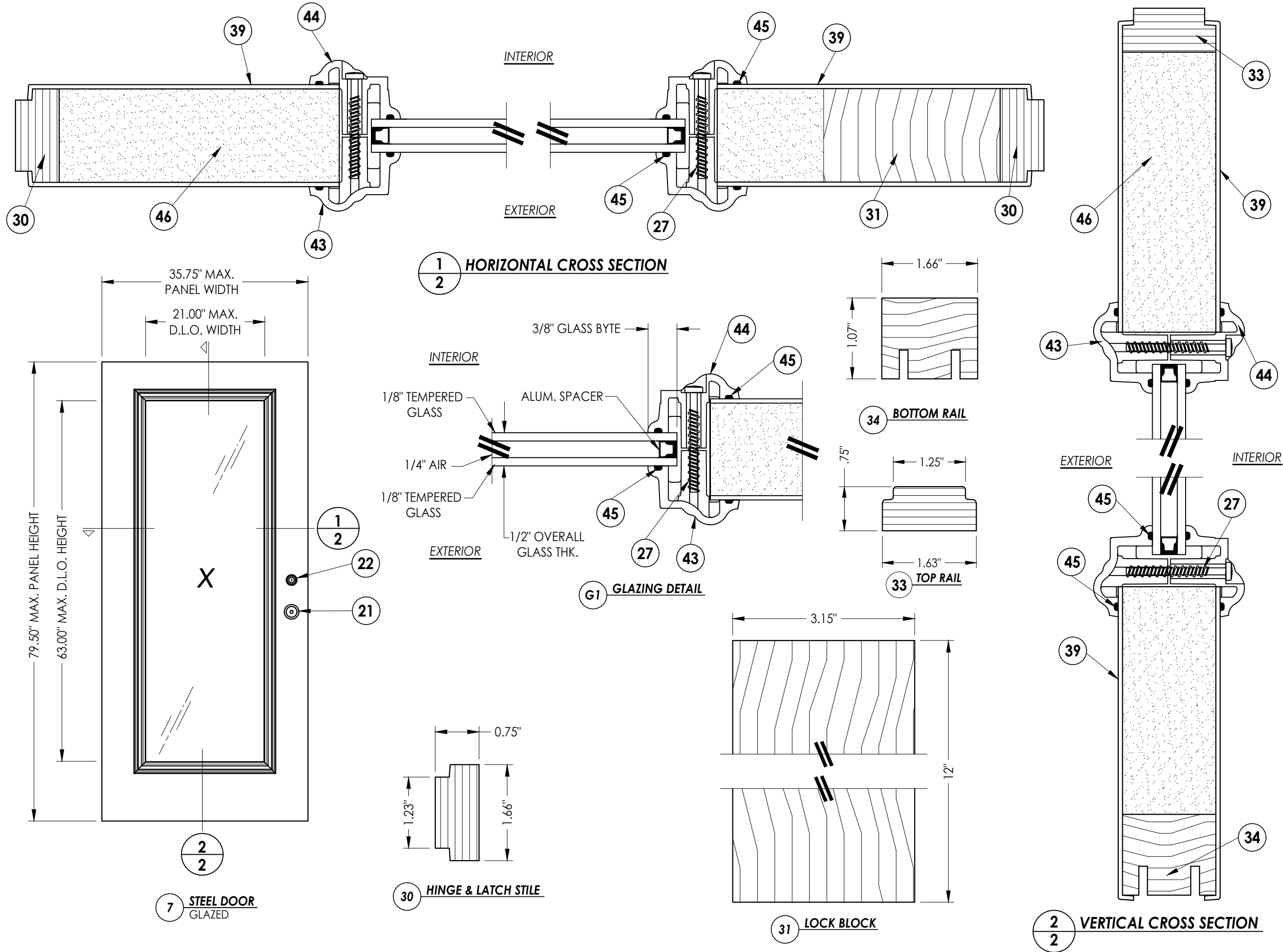
CHK. BY: LFS

DRAWING NO.: FL-17903.9

SHEET 1 OF 8

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

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Documents Prepared By:
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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:
STEVE'S AND SONS

PART OR ASSEMBLY:
DOOR PANEL CONSTRUCTION
DETAILS AND GLAZING DETAIL

NO.	DATE	REVISIONS
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.

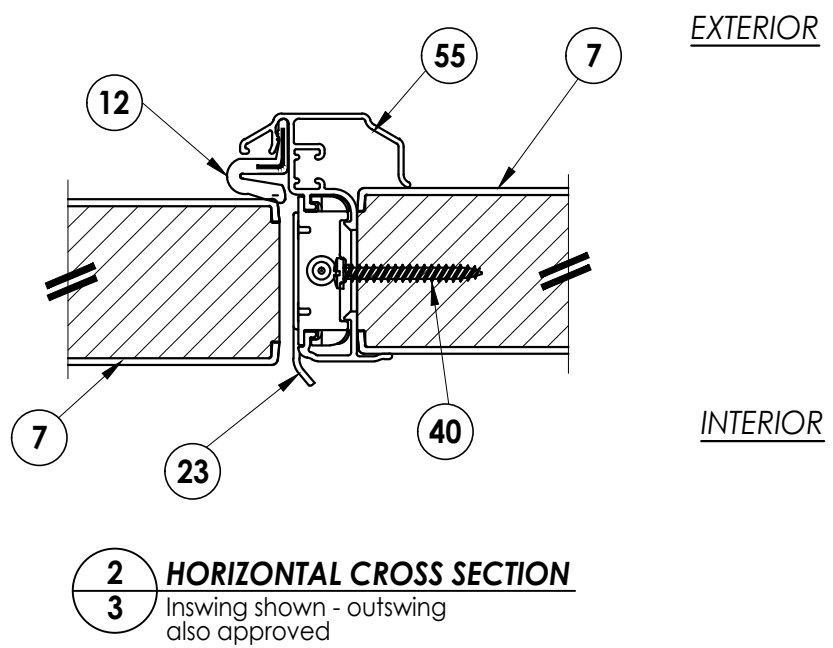
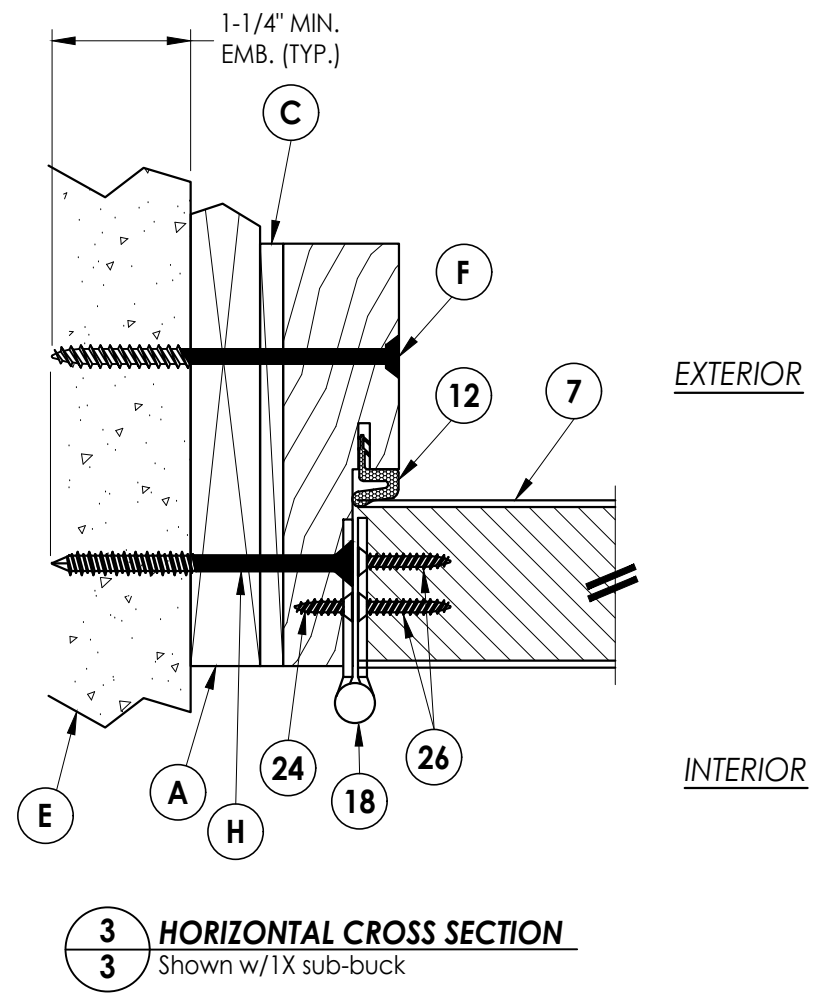
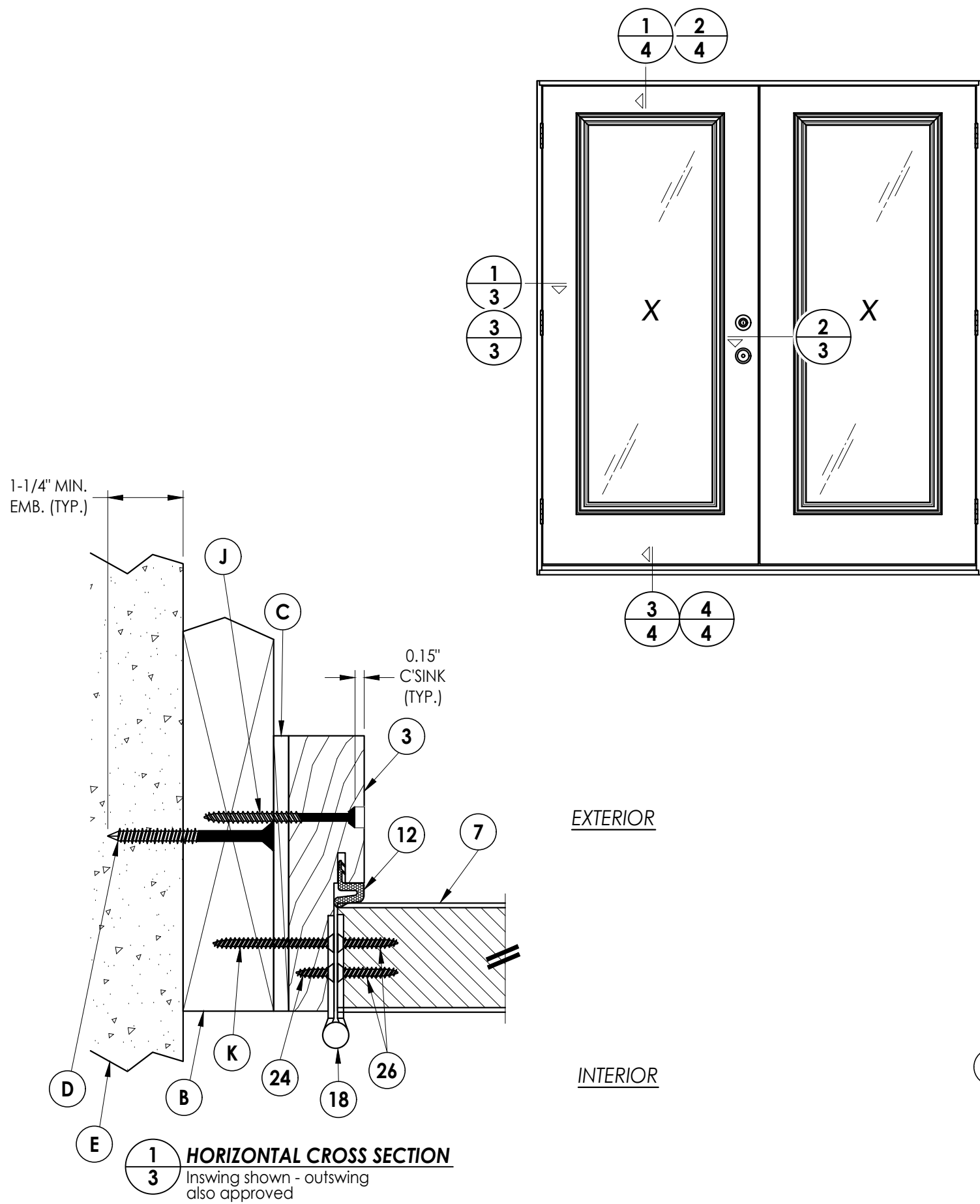
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CHK. BY: LFS

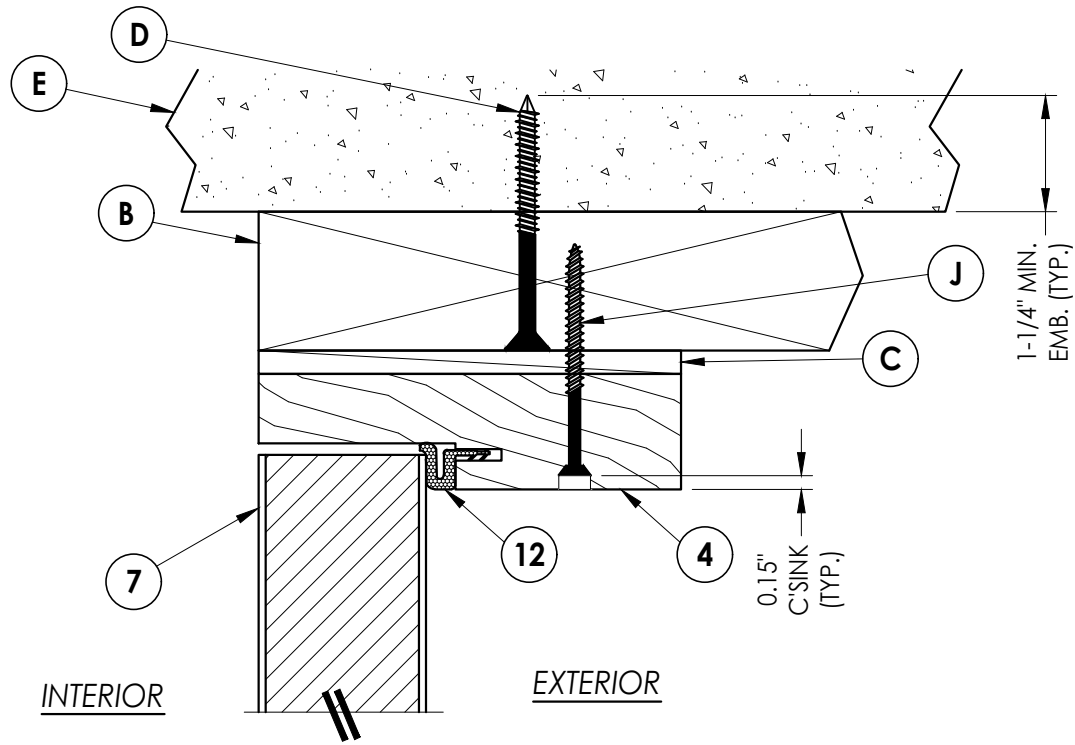
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FL-17903.9

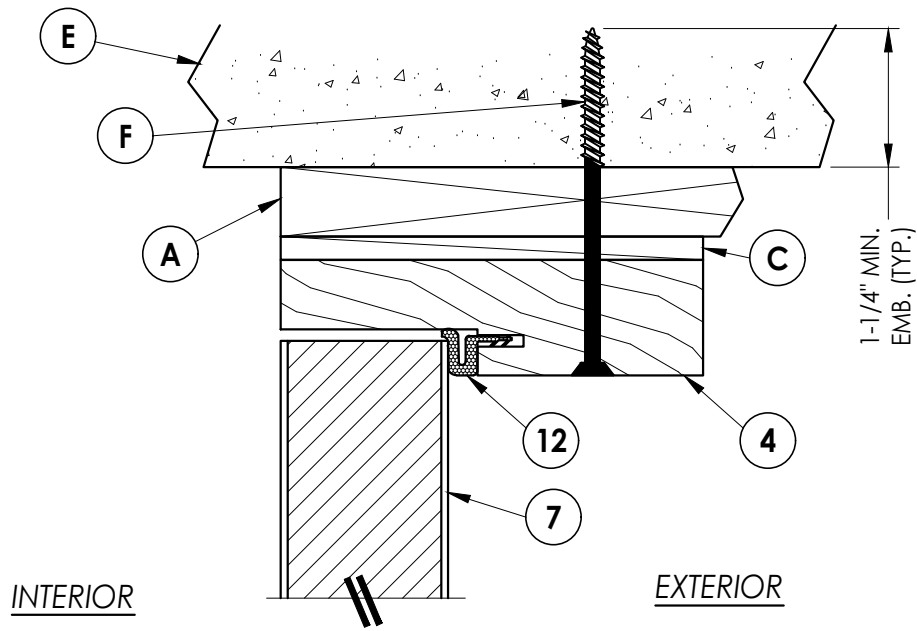
SHEET 2 OF 8

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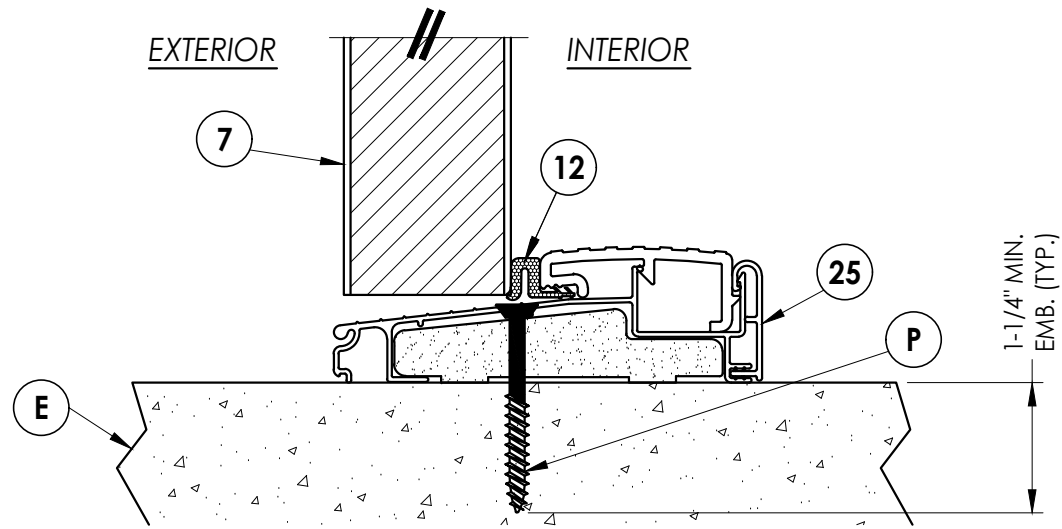
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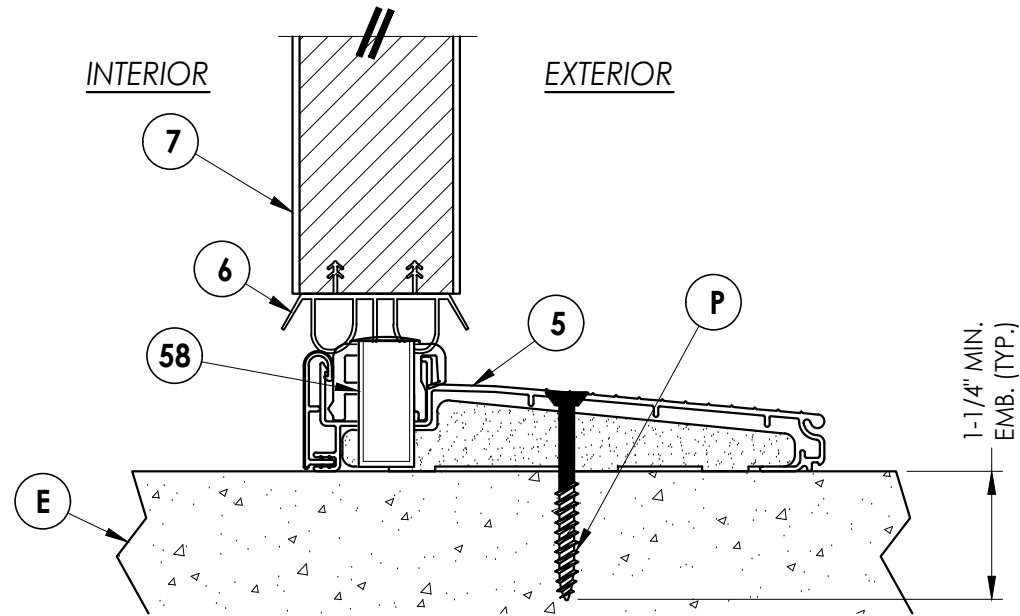
1
4 **VERTICAL CROSS SECTION**
Inswing shown - outswing
also approved



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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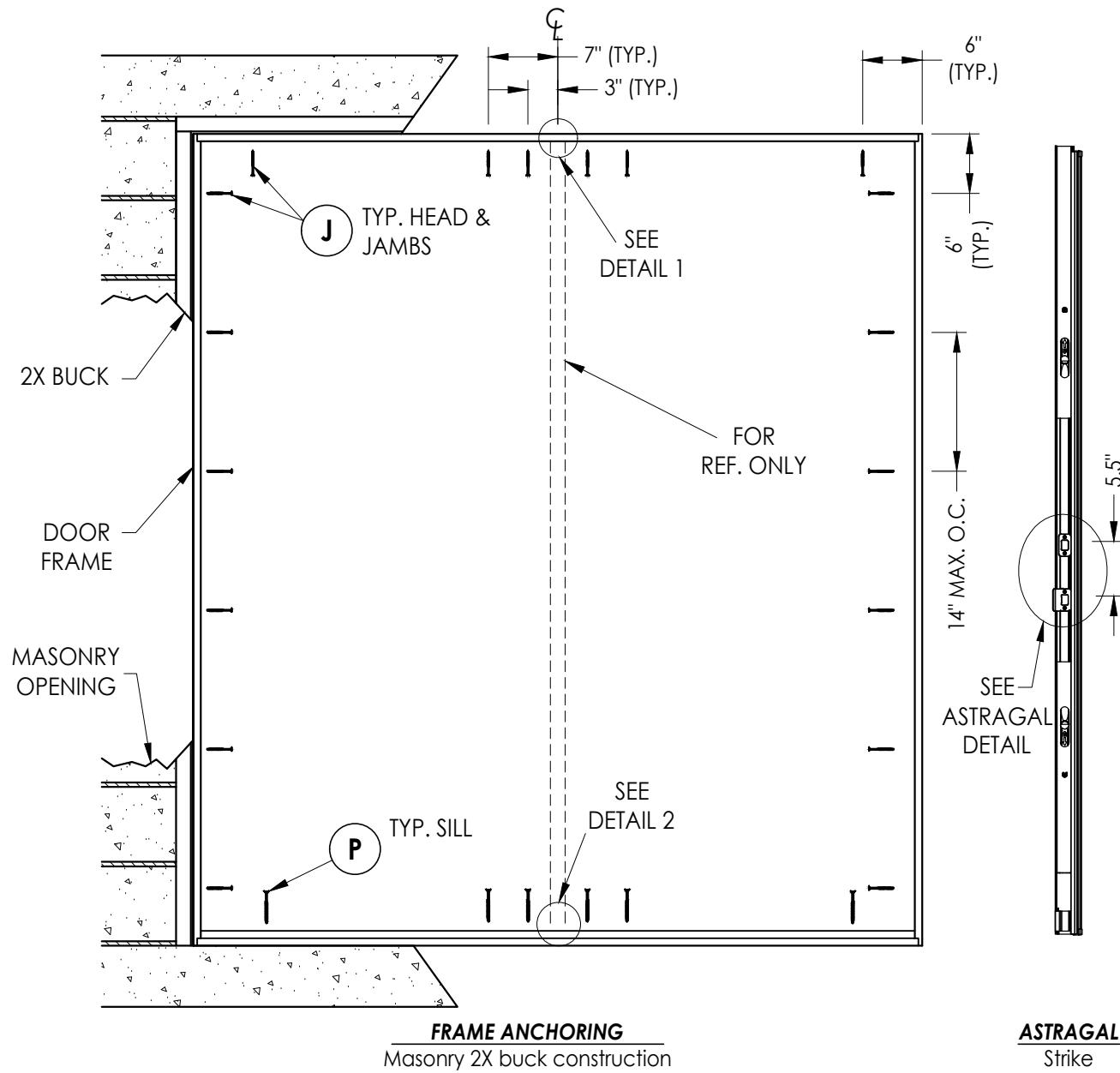
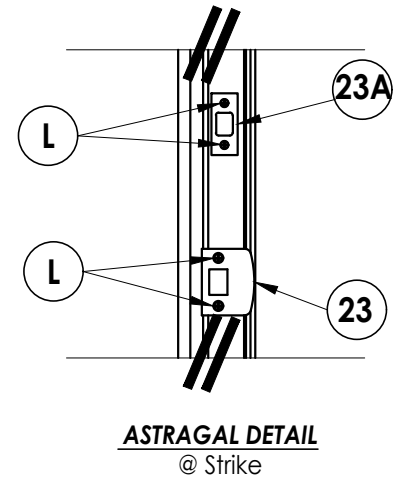
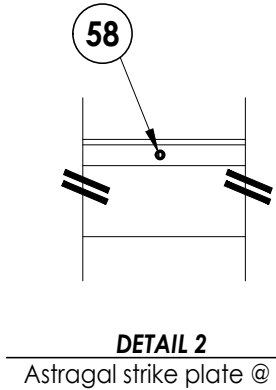
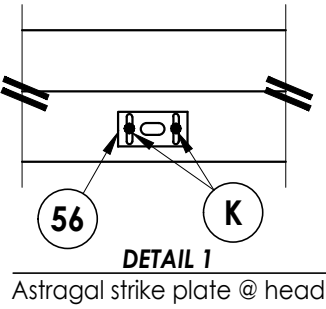
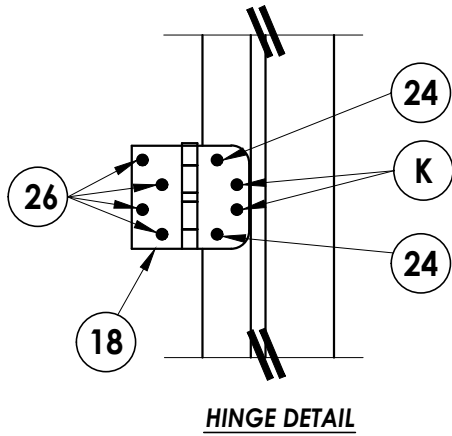
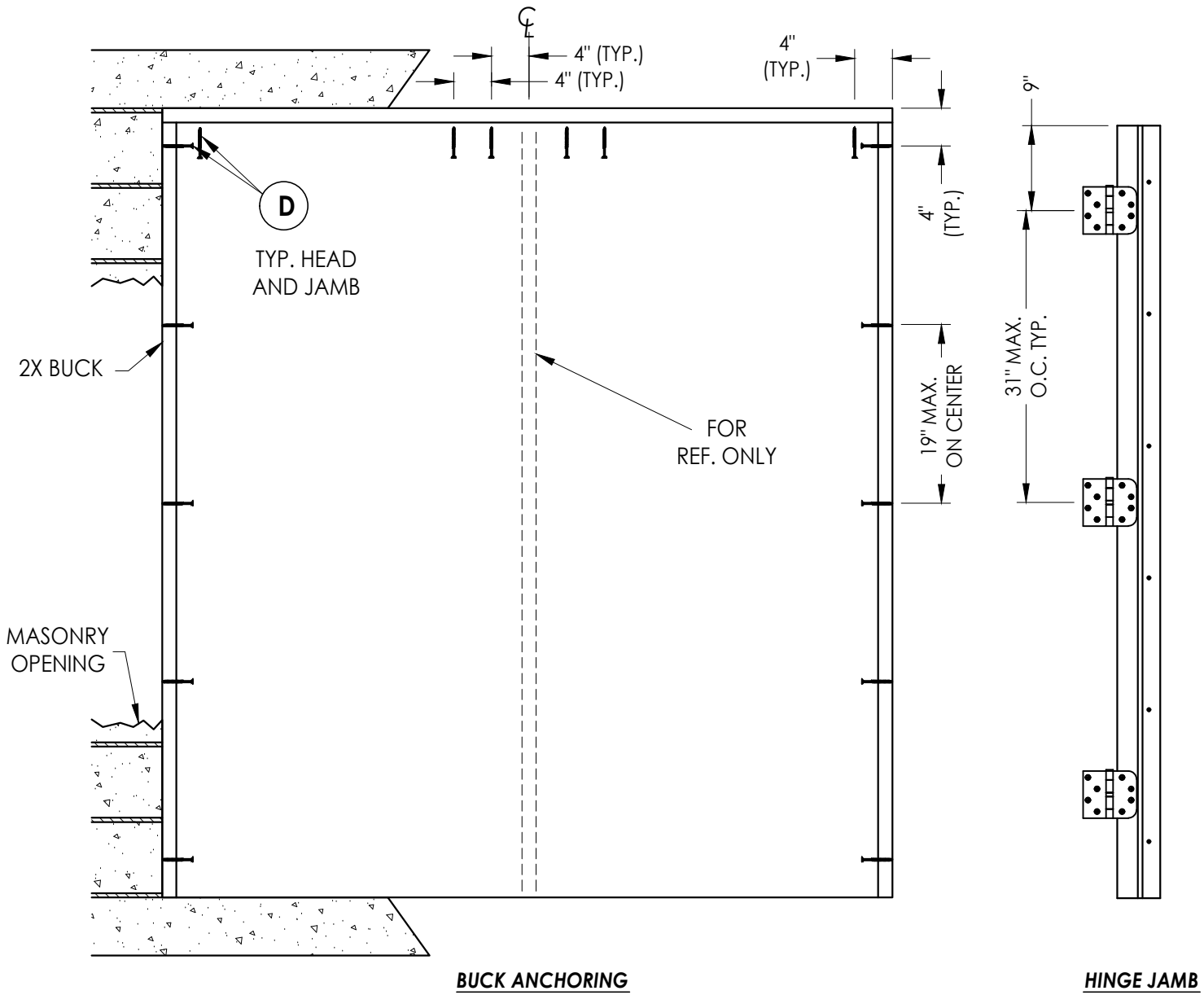
PRODUCT:
STEVES AND SONS

PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS
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

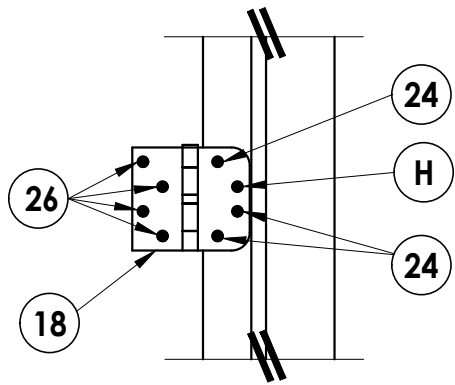
DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17903.9
SHEET 4 OF 8

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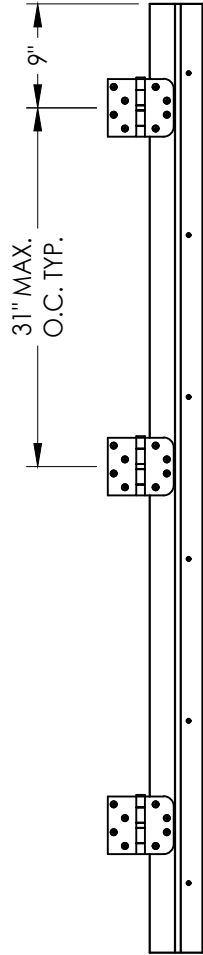


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813				
PRODUCT: STEVES AND SONS				PART OR ASSEMBLY: BUCK AND FRAME ANCHORING 2X BUCK MASONRY CONSTRUCTION				
				3	8/07/23	UPDATE TO 8TH 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-17903.9								
SHEET 5 OF 8								

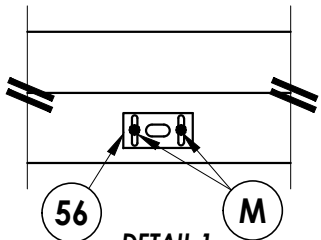
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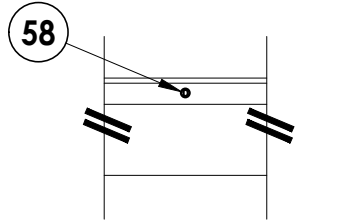
HINGE DETAIL



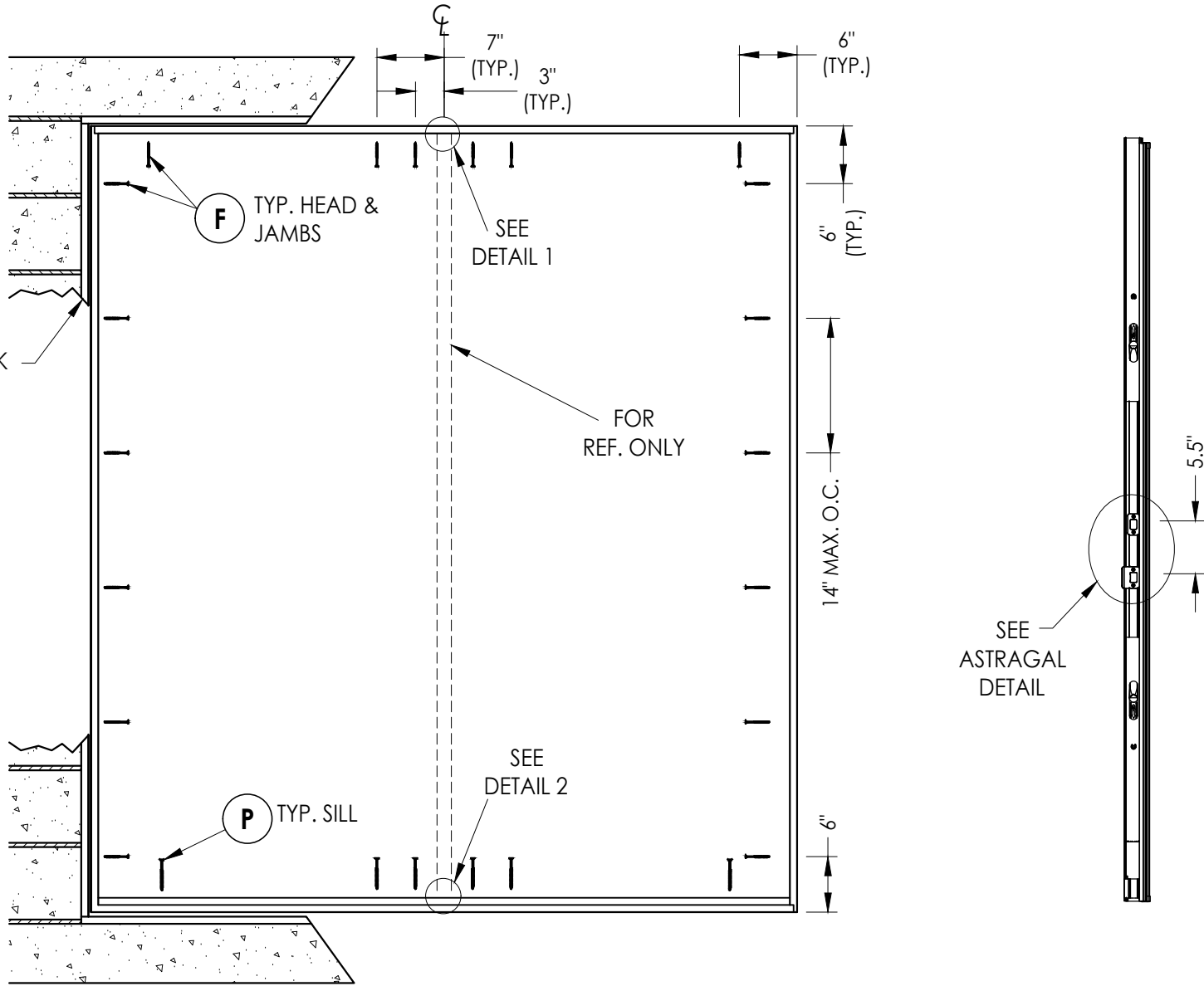
HINGE JAMB



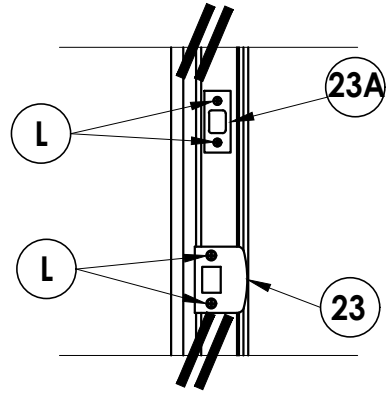
DETAIL 1
Astragal strike plate @ head



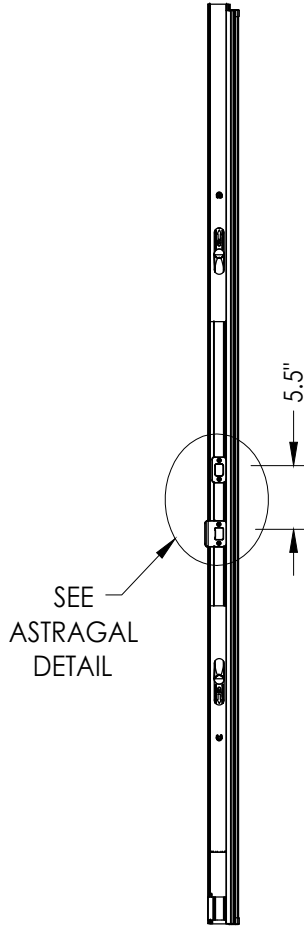
DETAIL 2
Astragal strike plate @ sill



FRAME ANCHORING
Masonry 1X buck construction



ASTRAGAL DETAIL
@ Strike



ASTRAGAL
Strike

DATE: 7/18/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-17903.9

SHEET 6 OF 8

PRODUCT:

STEVES AND SONS

PART OR ASSEMBLY:

FRAME ANCHORING
1X BUCK MASONRY CONSTRUCTION

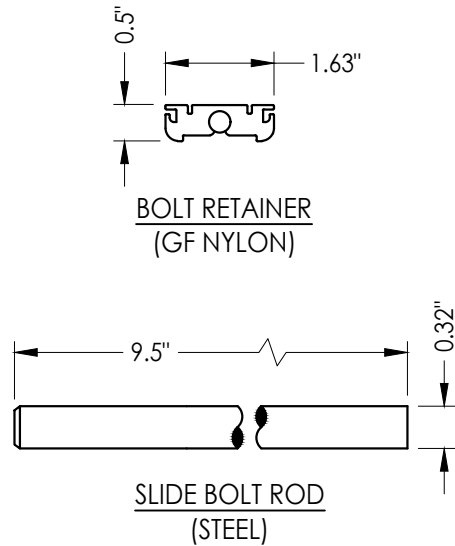
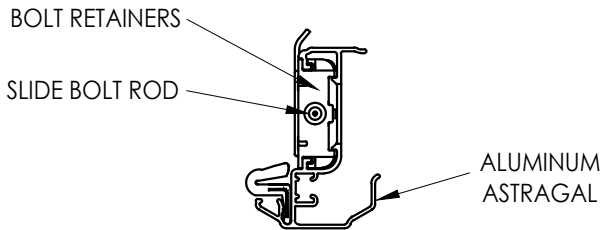
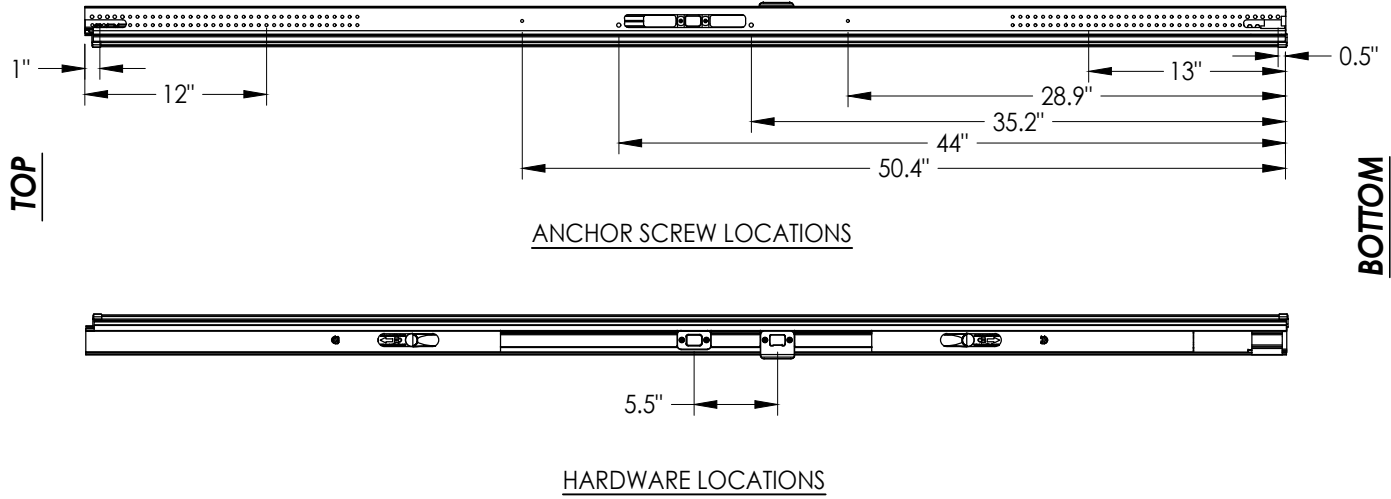
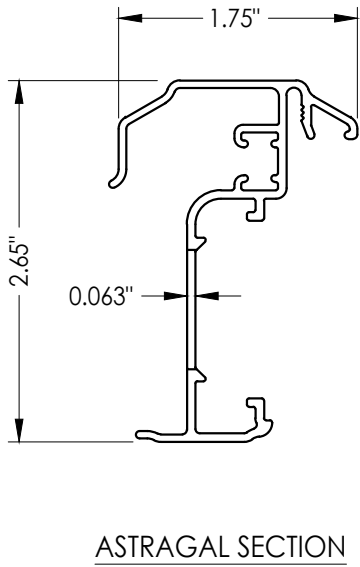
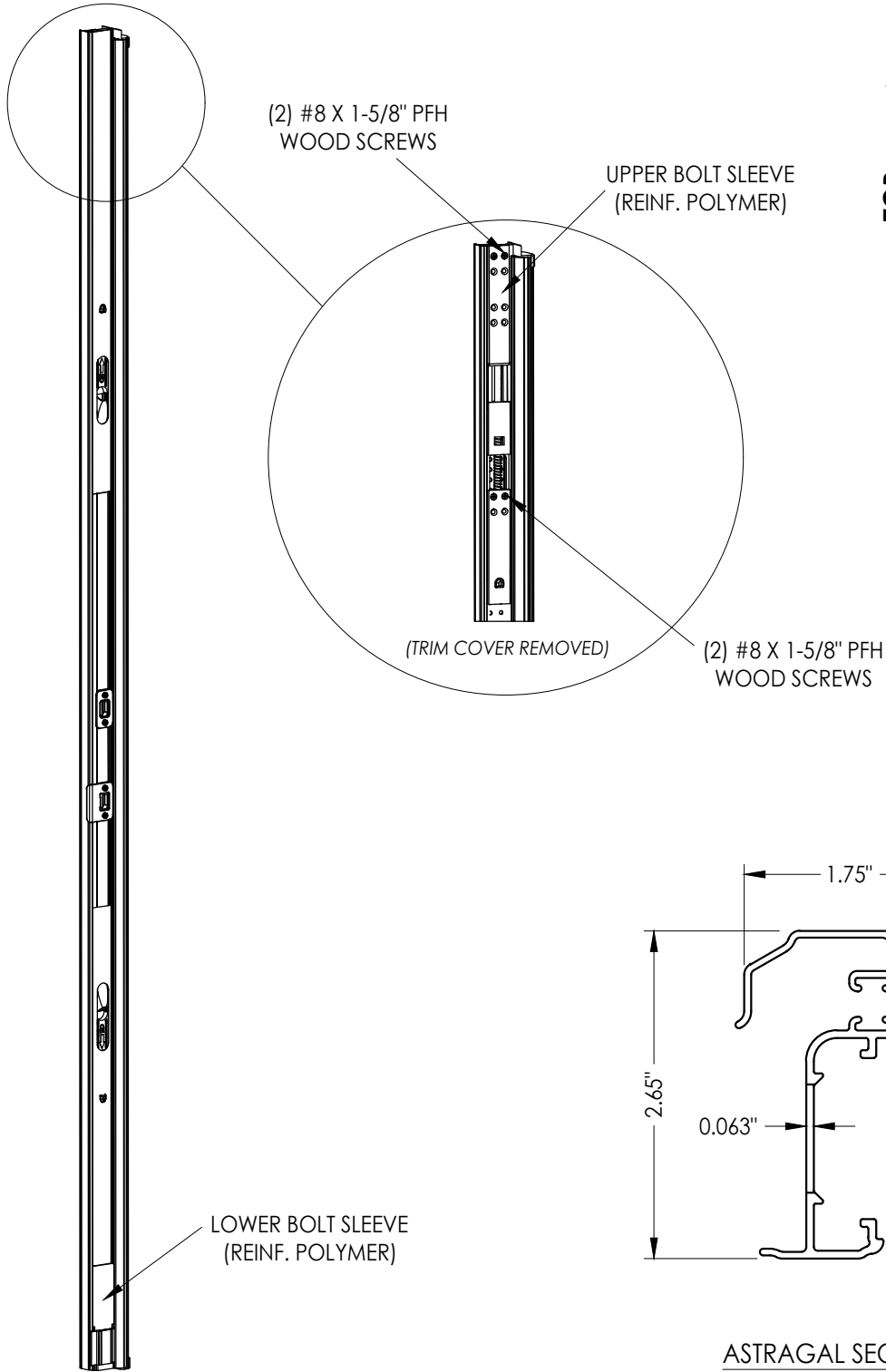
Documents Prepared By:

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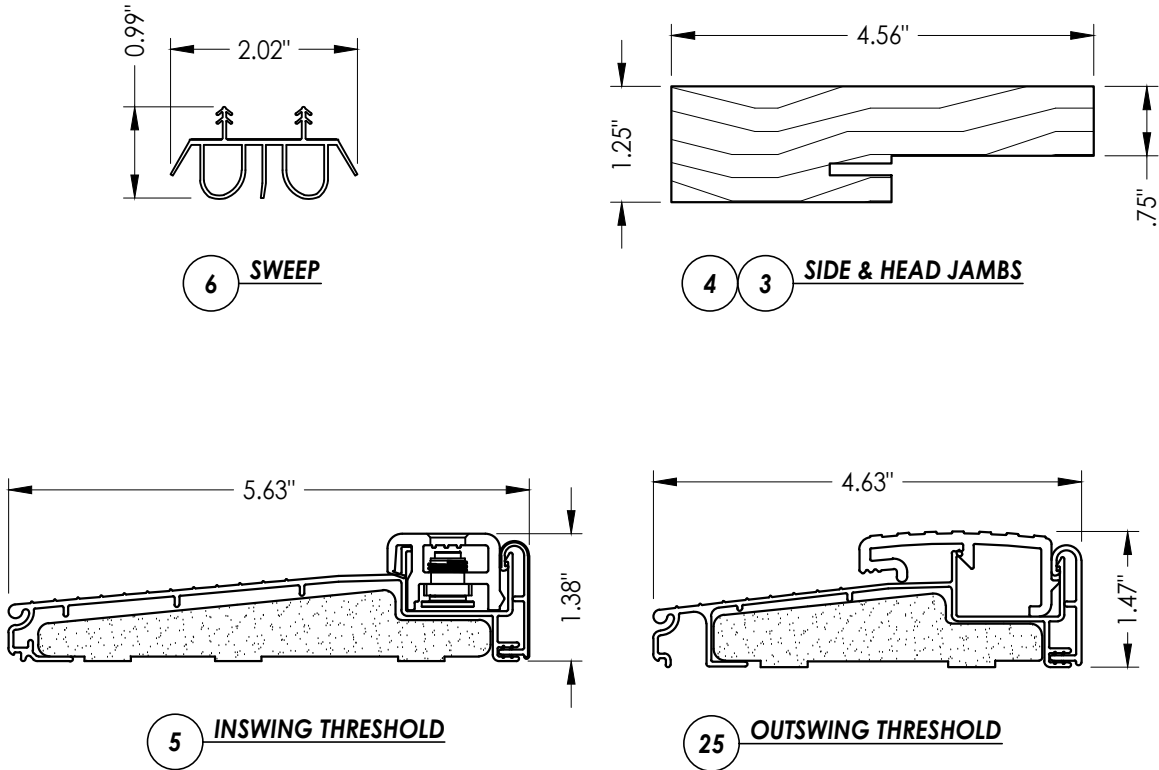


ULTIMATE HURRICANE ASTRAGAL

Documents Prepared By:		STEVE'S AND SONS		PART OR ASSEMBLY:		ASTRAGAL DETAILS	
Lyndon F. Schmidt				LFS		BY	
P.E. No. 43409				LFS		DATE	
				JK		REVISIONS	
				BY			

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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 - 3000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 3-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
H	1/4" X 3-1/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
J	#10 X 2-1/2" PFH WS (1.15" MIN. EMBEDMENT)	STEEL
K	#9 X 2" 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" DeWALT OR ITW PFH 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	STEEL DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
12	WEATHER STRIP QEBD650 Q-LON	FOAM
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
27	#8 x 1-1/2" PPH SCREW (LIGHT FRAME SCREW)	STEEL
30	LATCH AND HINGE STILE - SG >= 0.42	LVL
31	LOCK BLOCK - SG >= 0.42	WOOD
33	TOP RAIL - SG >= 0.42	LVL
34	BOTTOM RAIL - SG >= 0.42	WOOD
39	STEEL SKIN .025" MIN. THICKNESS	STEEL
40	#8 X 1-1/2" PANHEAD SMS	STEEL
43	FEMALE LITE FRAME- WESTERN REFLECTIONS/ODL	POLYPROPYLENE
44	MALE LITE FRAME- WESTERN REFLECTIONS/ODL	POLYPROPYLENE
45	SILICONE SEALANT	SILICONE
46	INSULATING FOAM CORE	POLYPROPYLENE
55	ULTIMATE HURRICANE ASTRAGAL (ENDURA)	ALUMINUM
56	ASTRAGAL STRIKE PLATE	PVC



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 ULTRACON®	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.

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PRODUCT: STEVES AND SONS		PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS	
		LFS	BY
		FBC	JK
		FBC	JK
		FBC	JK
		NO	DATE
		3	8/07/23
		2	9/16/20
		1	10/08/17
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SHEET 8 OF 8			