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

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

Digitally signed by Lyndon F Schmidt
Date: 2023.08.07 08:59:10 -04'00'

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

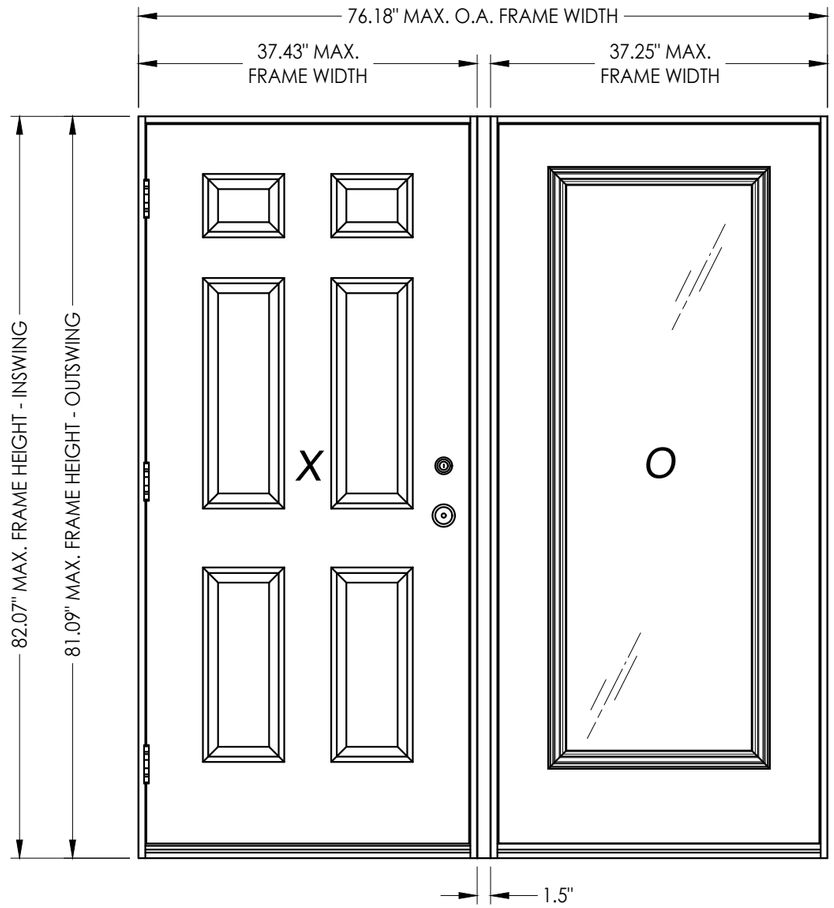
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID ONLY FOR THE STATE OF FLORIDA

OPAQUE STEEL DOOR w/ SIDELITE

INSWING / OUTSWING

"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 elevations, design pressures & general notes
2	Door panel construction details
3	Sidelite panel construction details & glazing detail
4	Horizontal cross sections
5	Vertical cross sections
6	Vertical cross sections
7	Buck and frame anchoring - 2X buck masonry construction
8	Frame anchoring - 1X buck masonry construction
9	Bill of materials & components

SWING	***MAX. FRAME DIMENSION***	***GLASS TYPE***	***DESIGN PRESSURE (PSF)***	
			POSITIVE	***NEGATIVE***
INSWING	**76.18" x 82.07"**	**G1**	**+47.0**	**-47.0**
OUTSWING	**76.18" x 81.09"**		**+47.0**	**-47.0**

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

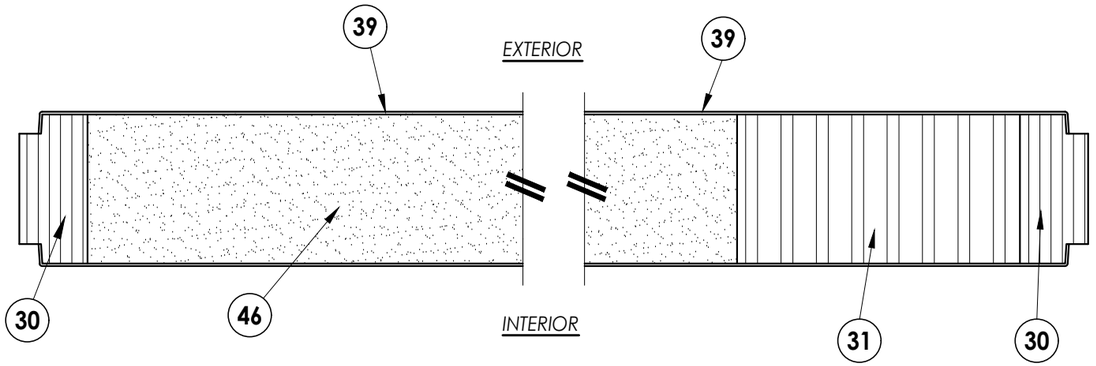
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS	BY
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

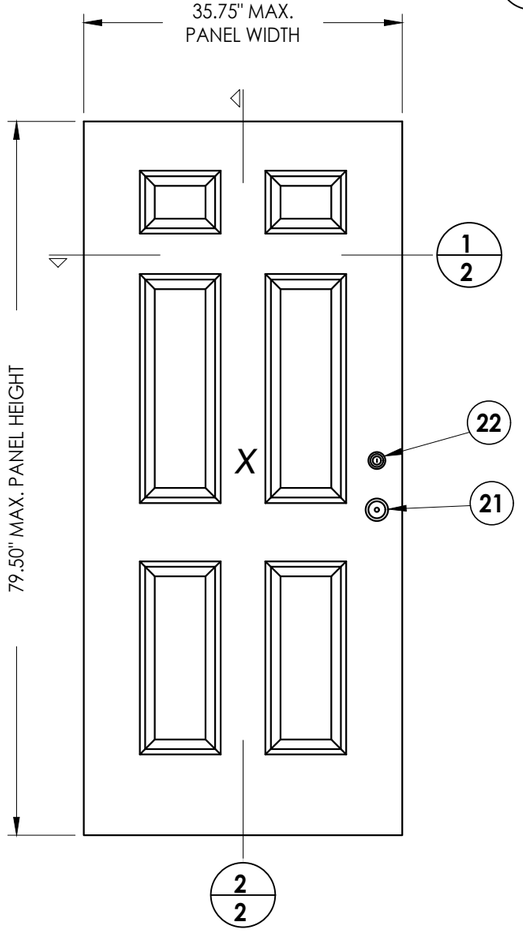
DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17903.4
SHEET 1 OF 9

© 2015 R.W. BUILDING CONSULTANTS INC.

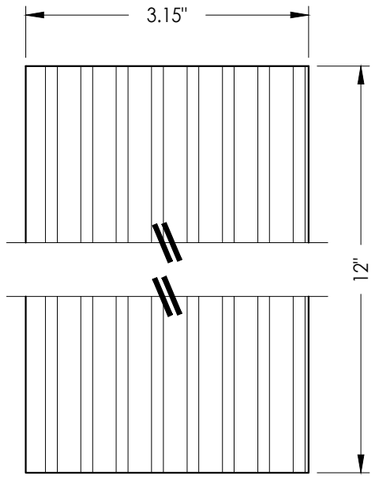
Z:\2023 FBC Drawings\Steves & Sons\FL-17903 R4\FL-17903.3-8.dwg



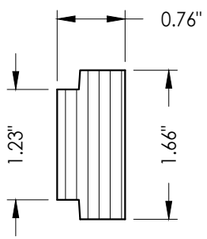
1/2 **HORIZONTAL CROSS SECTION**



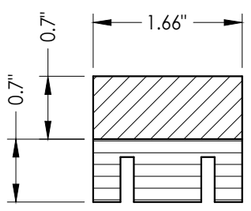
7 **STEEL DOOR**
OPAQUE



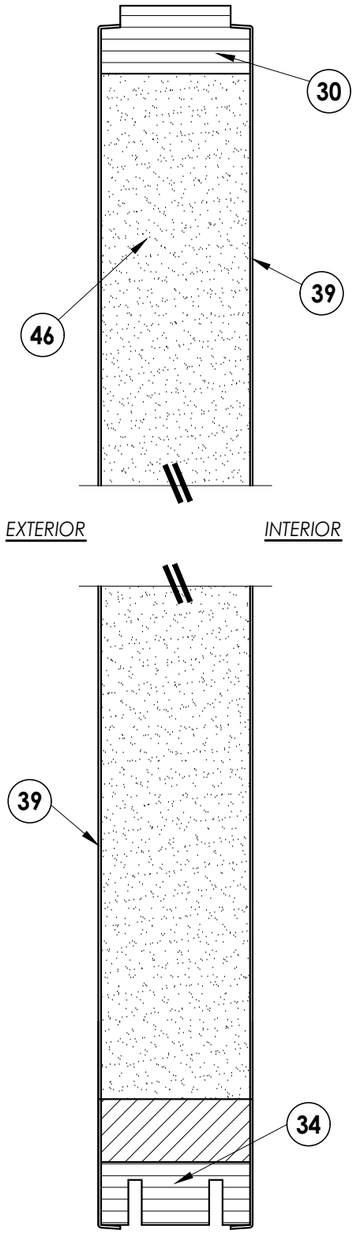
31 **LOCK BLOCK**



30 **HINGE & LATCH STILE & TOP RAIL**



34 **BOTTOM RAIL**



2/2 **VERTICAL CROSS SECTION**

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

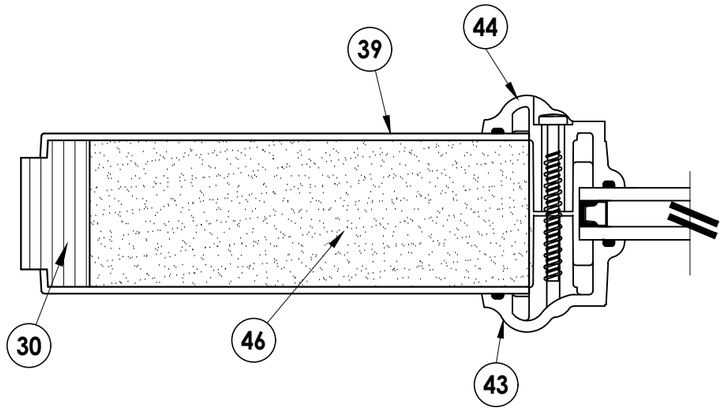
PART OR ASSEMBLY: DOOR PANEL CONSTRUCTION DETAILS

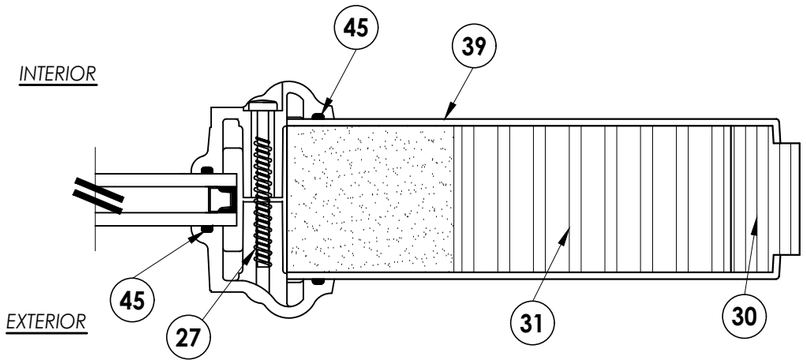
NO.	DATE	REVISIONS	BY
3	8/07/23	UPDATE TO 8TH ED. (2023) FBC	LFS
2	9/16/20	UPDATE TO 7TH ED. (2020) FBC	LFS
1	10/08/17	UPDATE TO 6TH ED. (2017) FBC	JK

DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17903.4
SHEET 2 OF 9

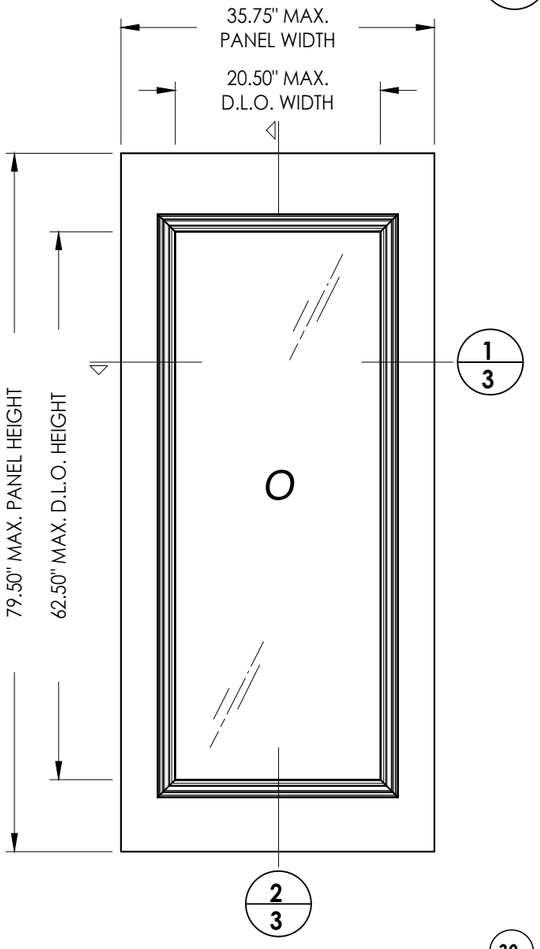
© 2015 R.W. Building Consultants Inc.

Z:\2023 FBC Drawings\Steves & Sons\FL-17903 R4\FL-17903.3-8.dwg

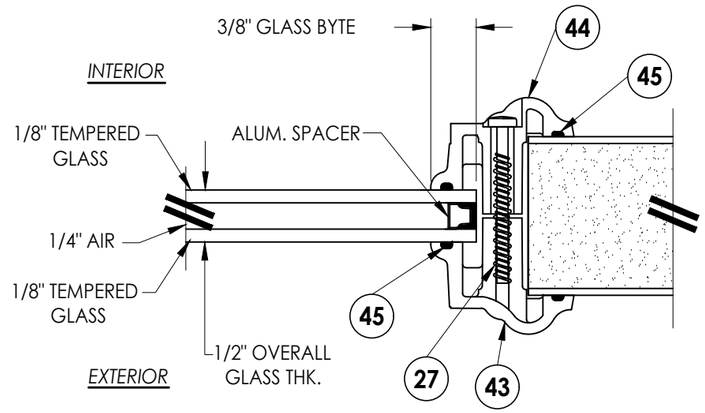




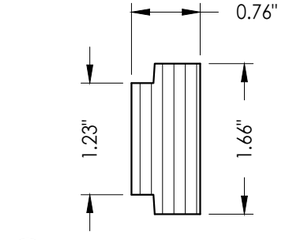
1/3 **HORIZONTAL CROSS SECTION**



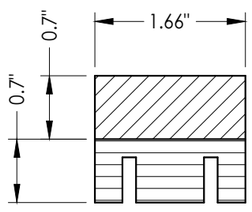
7A **STEEL SIDELITE** GLAZED



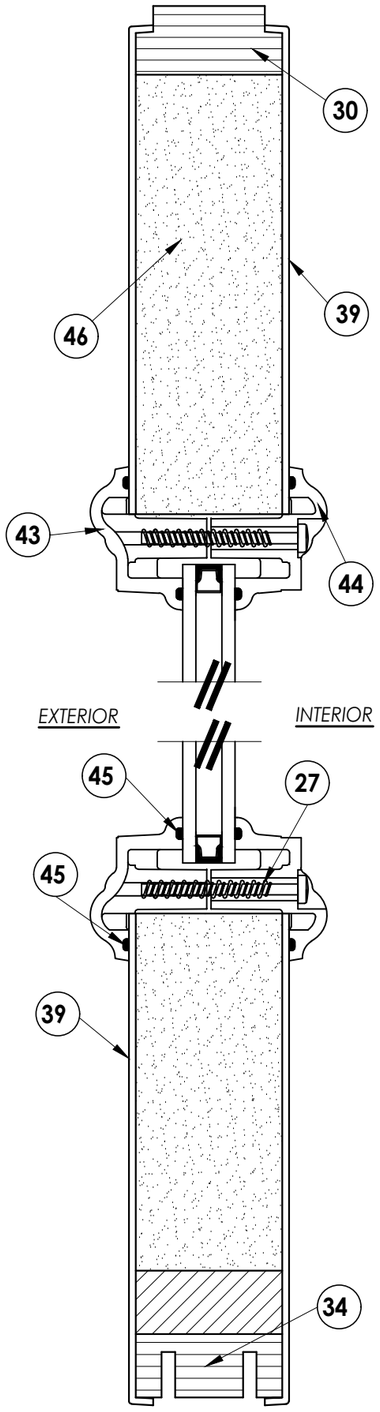
G1 **GLAZING DETAIL**



30 **HINGE & LATCH STILE & TOP RAIL**



34 **BOTTOM RAIL**



2/3 **VERTICAL CROSS SECTION**

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:
SIDELITE PANEL CONSTRUCTION
DETAILS AND GLAZING DETAIL

NO.	DATE	REVISIONS	BY
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

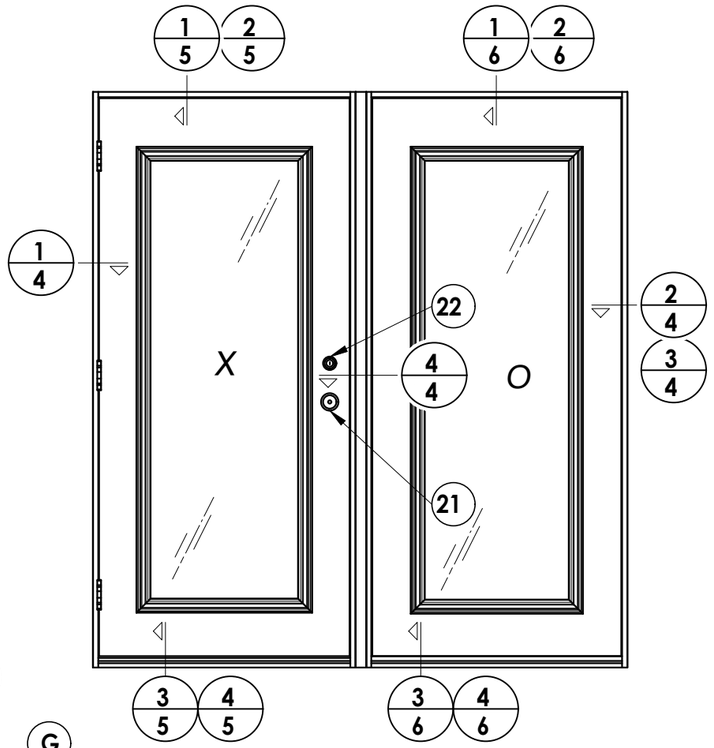
DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17903.4
SHEET 3 OF 9

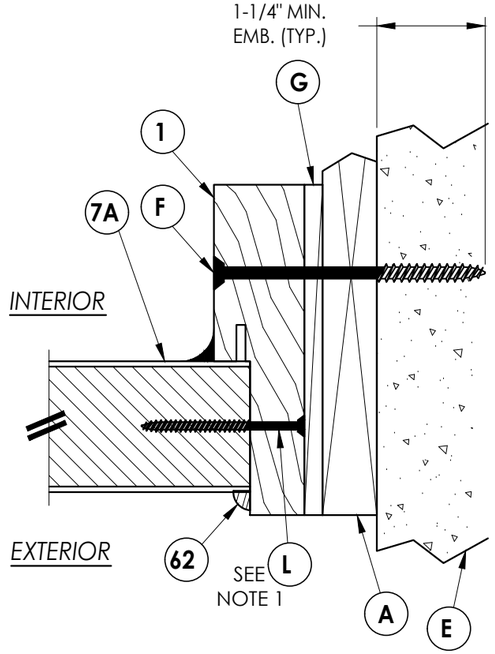
© 2015 R.W. Building Consultants Inc.

Z:\2023 FBC Drawings\Steves & Sons\FL-17903 R4\FL-17903.3-8.dwg

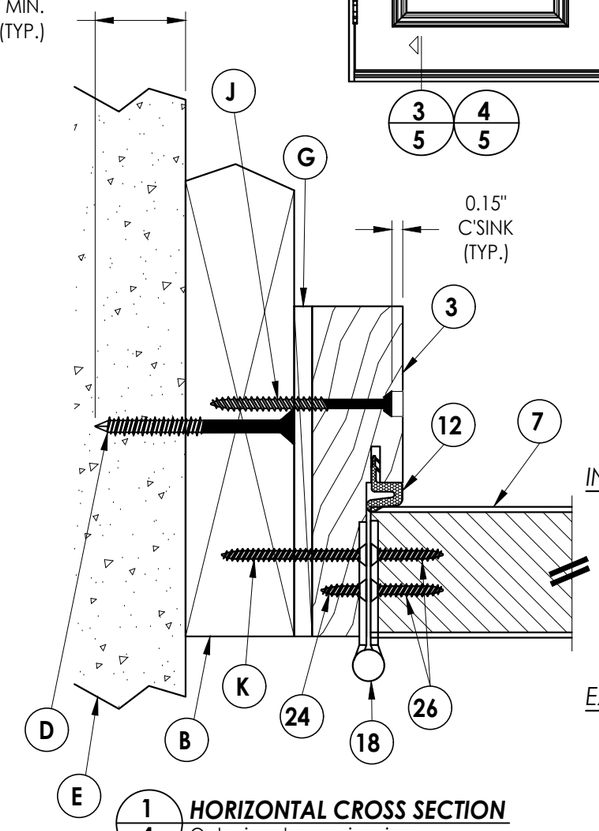
NOTE:

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

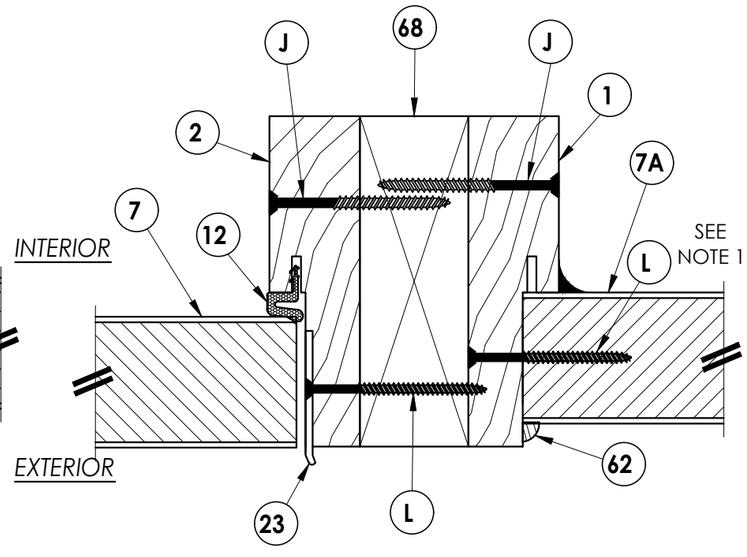




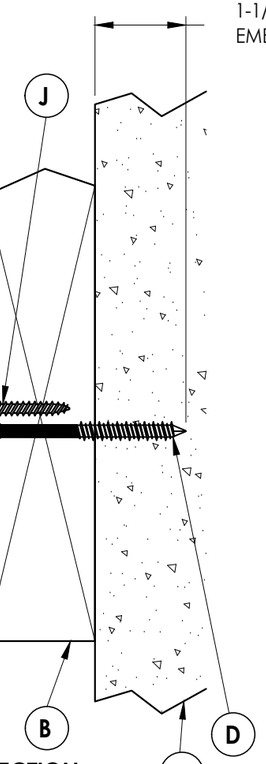
3/4 HORIZONTAL CROSS SECTION
Shown w/1X sub-buck



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



4/4 HORIZONTAL CROSS SECTION



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

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

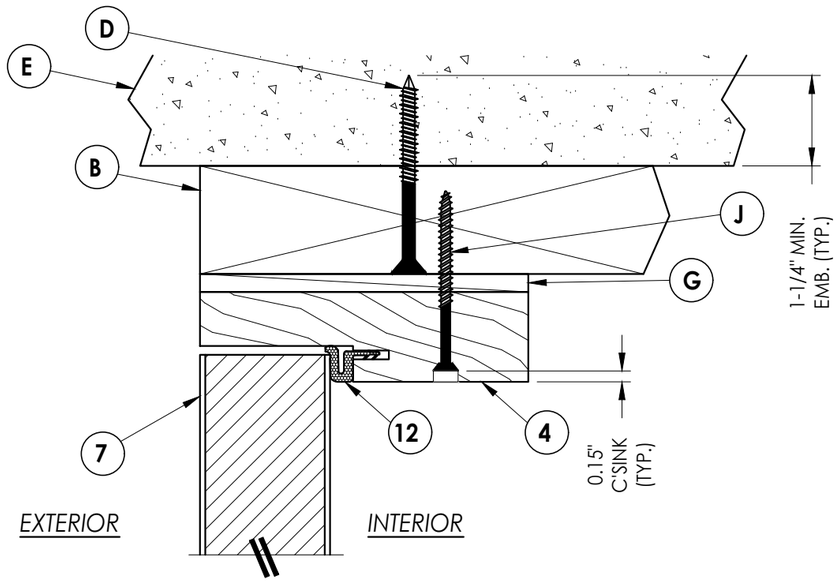
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
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

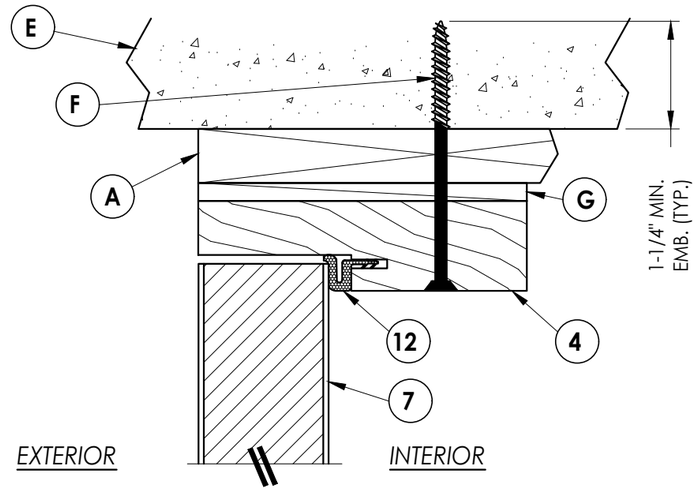
DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17903.4
SHEET 4 OF 9

© 2015 R.W. Building Consultants Inc.

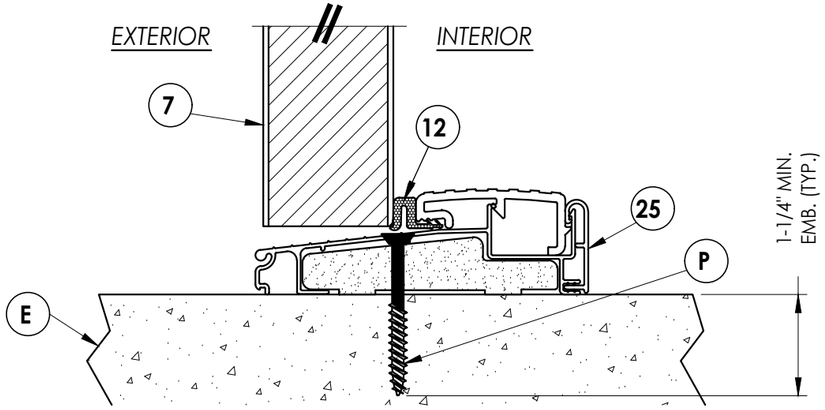
Z:\2023 FBC Drawings\Steves & Sons\FL-17903 R4\FL-17903.3-8.dwg



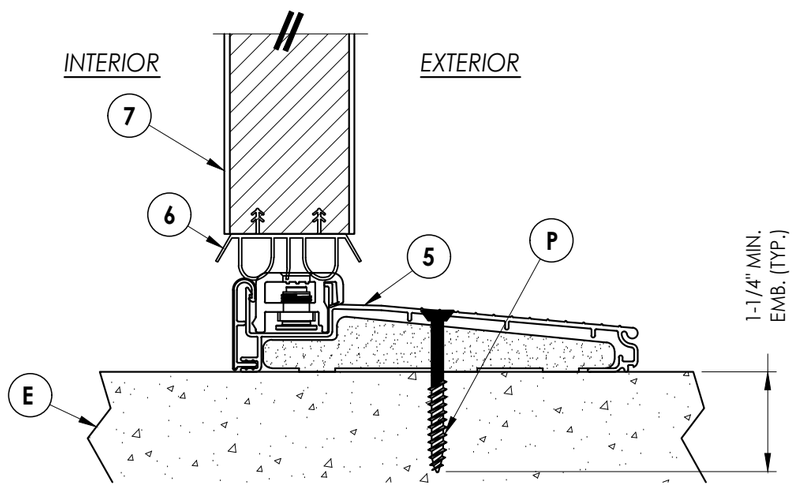
1/5 VERTICAL CROSS SECTION
Outswing shown - inswing also approved



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



3/5 VERTICAL CROSS SECTION
Outswing sill



4/5 VERTICAL CROSS SECTION
Inswing sill

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: VERTICAL CROSS SECTIONS

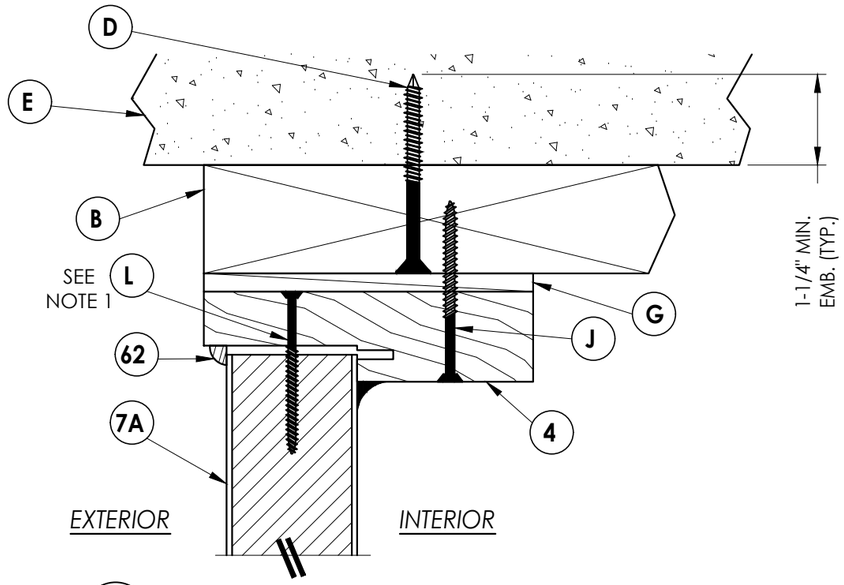
NO.	DATE	BY
3	8/07/23	LFS
2	9/16/20	LFS
1	10/08/17	JK

REVISIONS

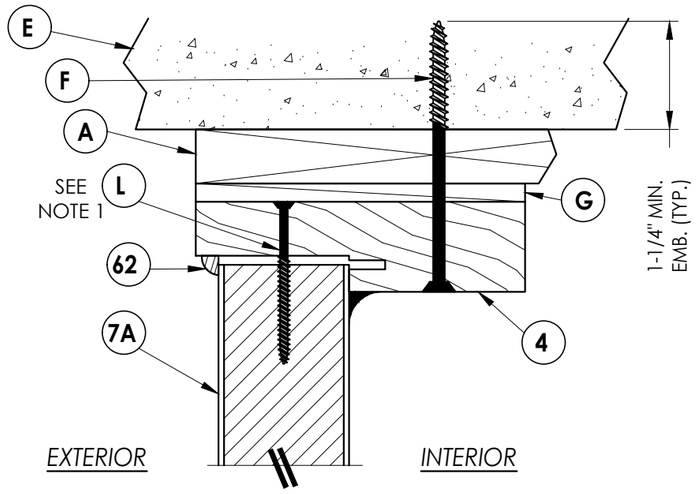
DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17903.4
SHEET 5 OF 9

© 2015 R.W. BUILDING CONSULTANTS INC.

Z:\2023 FBC Drawings\Steves & Sons\FL-17903 R4\FL-17903.3-8.dwg



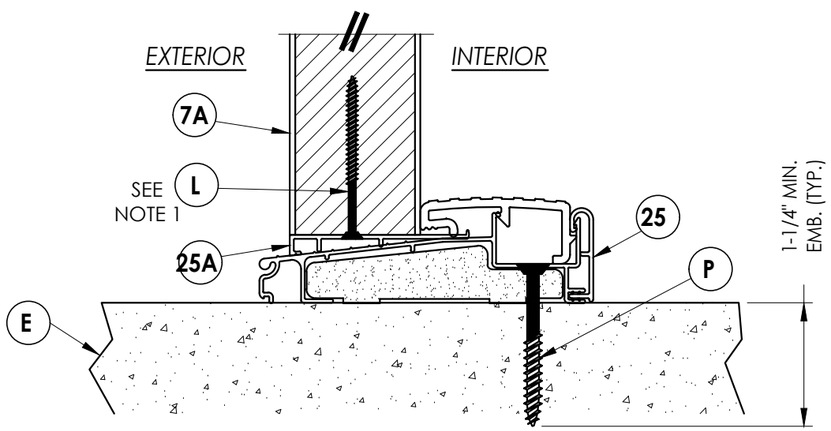
1/6 VERTICAL CROSS SECTION



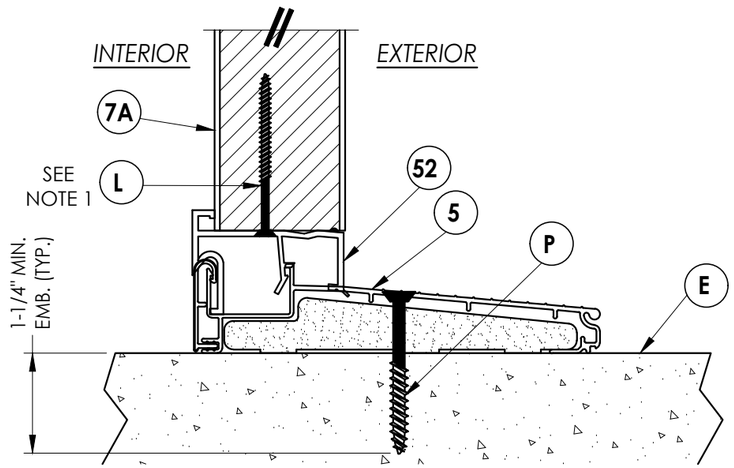
2/6 VERTICAL CROSS SECTION
Shown w/1X sub-buck

NOTE:

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



3/6 VERTICAL CROSS SECTION
Outswing sill



4/6 VERTICAL CROSS SECTION
Inswing sill

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

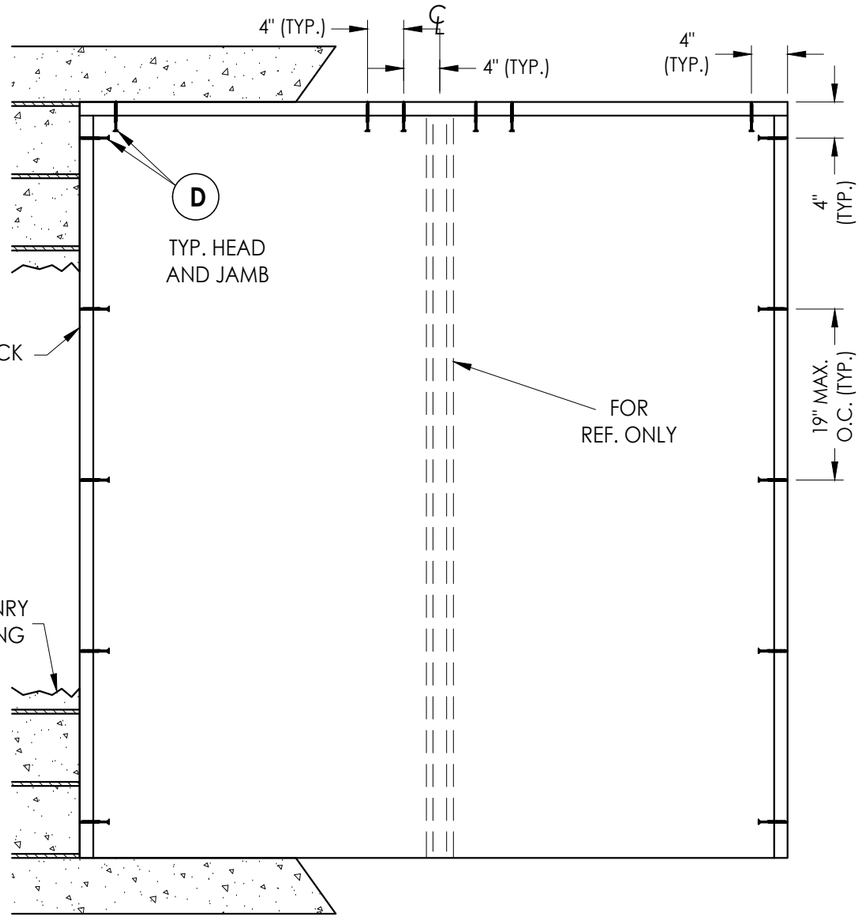
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
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

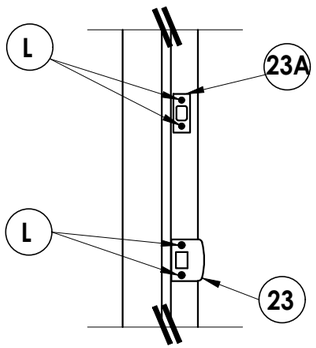
DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17903.4
SHEET 6 OF 9

© 2015 R.W. BUILDING CONSULTANTS INC.

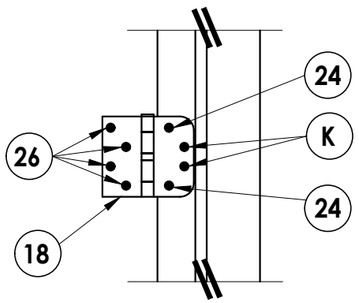
Z:\2023 FBC Drawings\Steves & Sons\FL-17903 R4\FL-17903.3-8.dwg



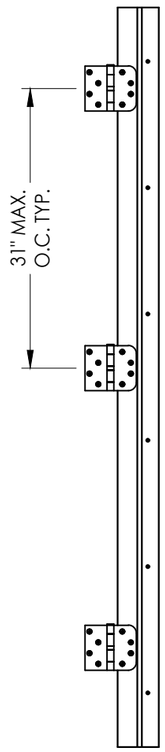
BUCK ANCHORING



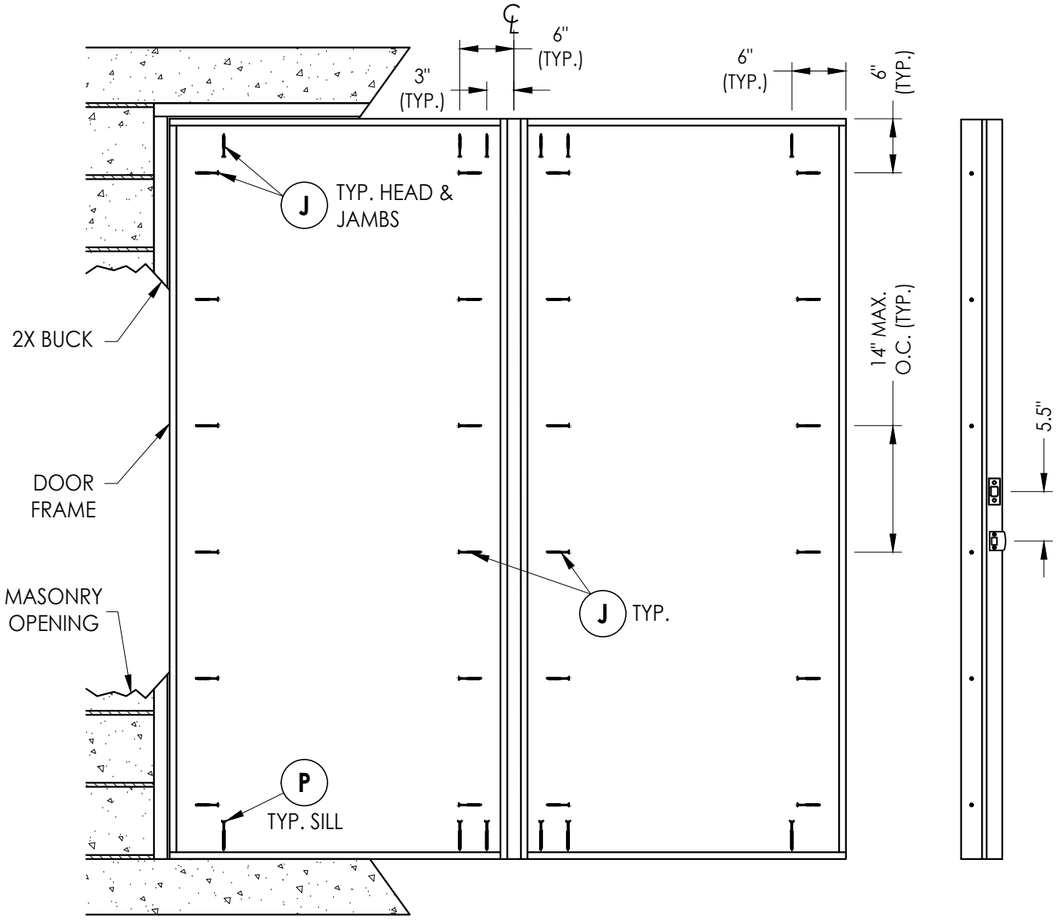
STRIKE PLATE DETAIL



HINGE DETAIL 1



HINGE JAMB



FRAME ANCHORING
Masonry 2X buck construction

STRIKE JAMB

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*

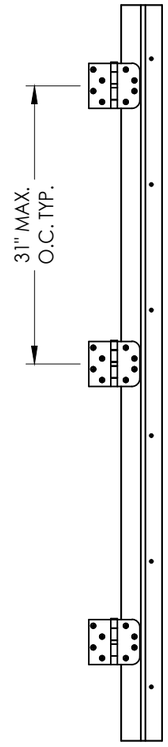
PART OR ASSEMBLY: *BUCK AND FRAME ANCHORING 2X BUCK MASONRY CONSTRUCTION*

NO.	DATE	REVISIONS	BY
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

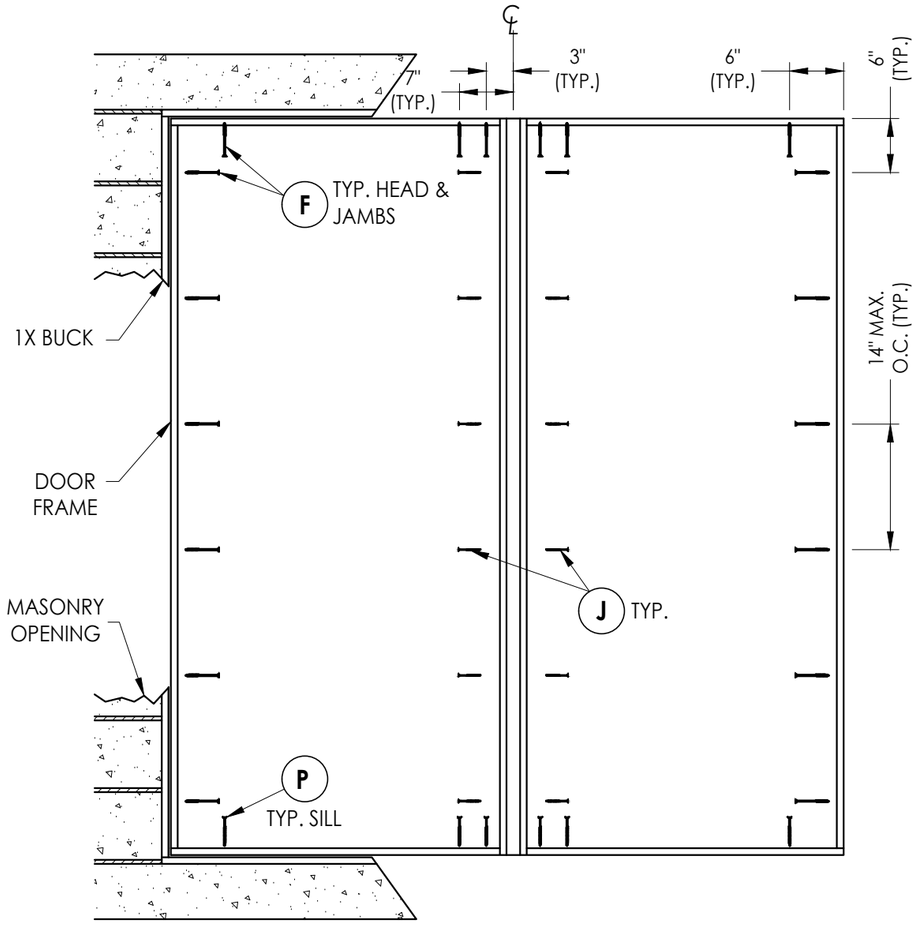
DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17903.4
SHEET 7 OF 9

© 2015 R.W. Building Consultants Inc.

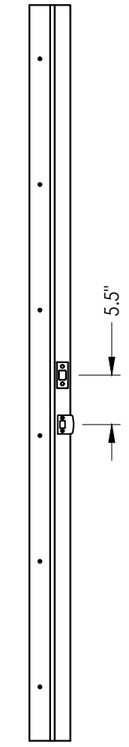
Z:\2023 FBC Drawings\Steves & Sons\FL-17903 R4\FL-17903.3-8.dwg



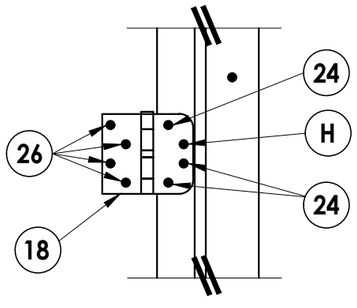
HINGE JAMB



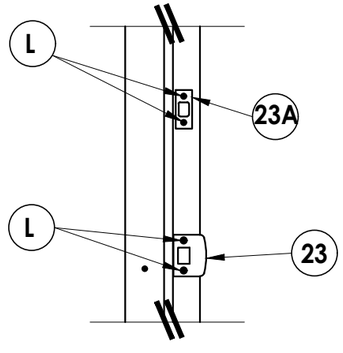
FRAME ANCHORING
Masonry 1X buck construction



STRIKE JAMB



HINGE DETAIL



STRIKE PLATE 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
1X BUCK MASONRY CONSTRUCTION

NO.	DATE	REVISIONS	BY
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

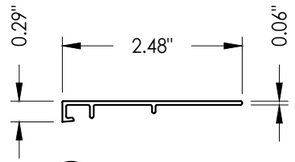
DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17903.4
SHEET 8 OF 9

© 2015 R.W. Building Consultants Inc.

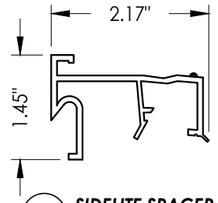
Z:\2023 FBC Drawings\Steves & Sons\FL-17903 R4\FL-17903.3-8.dwg

BILL OF MATERIALS

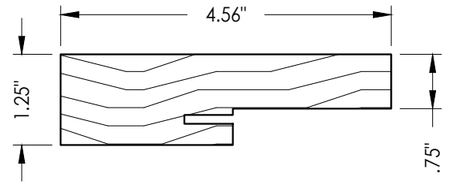
ITEM	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
D	1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 3-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
G	MAX. 1/4" SHIM SPACE	WOOD
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
P	1/4" X 2-1/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
1	SIDELITE JAMB - FINGER-JOINT PINE - SG >= 0.42	WOOD
2	STRIKE JAMB - FINGER-JOINT PINE - SG >= 0.42	WOOD
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	-
7A	STEEL SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
12	WEATHER STRIP QEBD650 Q-LON	-
18	4" HINGE	STEEL
21	KWIKSET LOCK - SERIES 200 PASSAGE	-
22	KWIKSET DEADBOLT - SERIES 600	-
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.
25A	SIDELITE SPACER -OUTSWING	PVC
26	#9 X 1" PFH WS	STEEL
27	#8 x 1 1/2" PPH SCREW	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	STEEL SKIN 0.025" MIN. THICKNESS	STEEL
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	SILICONE SEALANT	SILICONE
46	INSULATING FOAM CORE	POLYURETHANE
52	SIDELITE SPACER - INSWING	PVC
62	QUARTER ROUND	WOOD
68	2X MULLION REINFORCEMENT - SG>= 0.42	WOOD



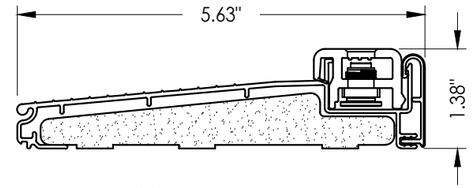
25A **SIDELITE SPACER** Outswing



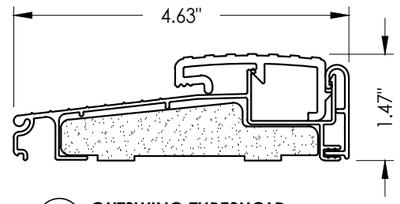
52 **SIDELITE SPACER** Inswing



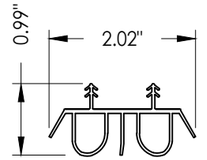
4 3 2 1 **SIDE & HEAD JAMBS**



5 **INSWING THRESHOLD**



25 **OUTSWING THRESHOLD** Low profile ADA



6 **SWEEP**

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:
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

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

DATE: 7/18/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17903.4
SHEET 9 OF 9

© 2015 R.W. Building Consultants Inc.

Z:\2023 FBC Drawings\Steves & Sons\FL-17903 R4\FL-17903.3-8.dwg