

WORLDWIDE
Door Components

5017 N. Coolidge
Tampa, FL 33614

OPAQUE FIBERGLASS DOOR
INSWING / OUTSWING
"IMPACT"

GENERAL NOTES

1.

This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2.

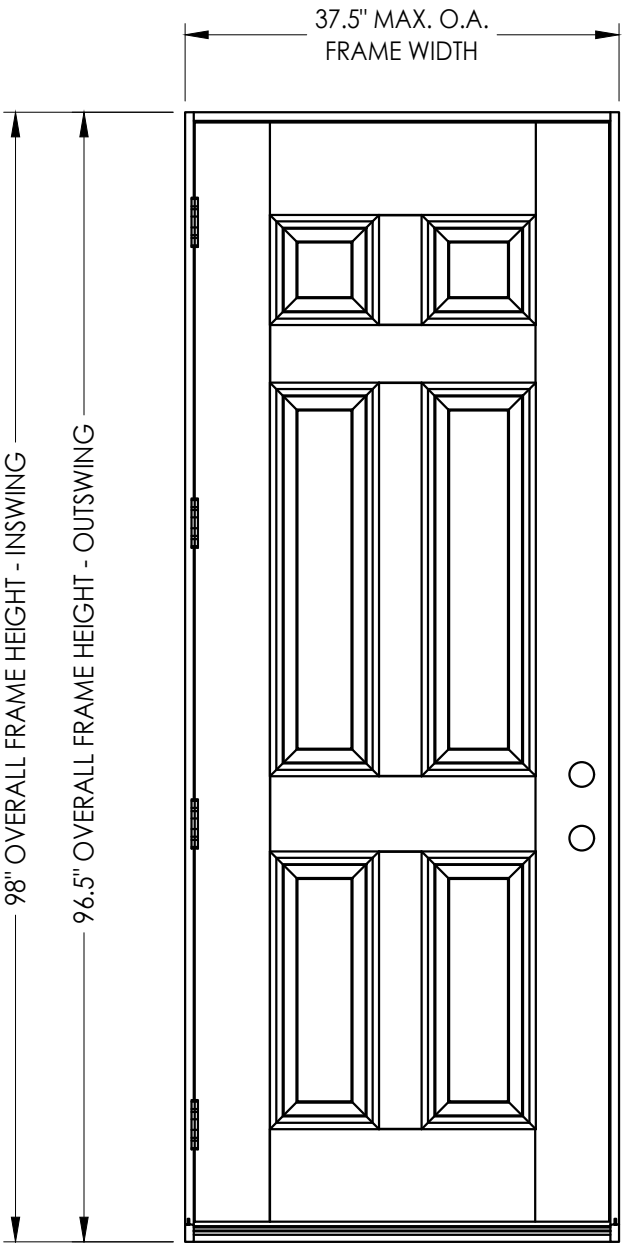
Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3.

When used in areas requiring wind borne debris protection this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
4.

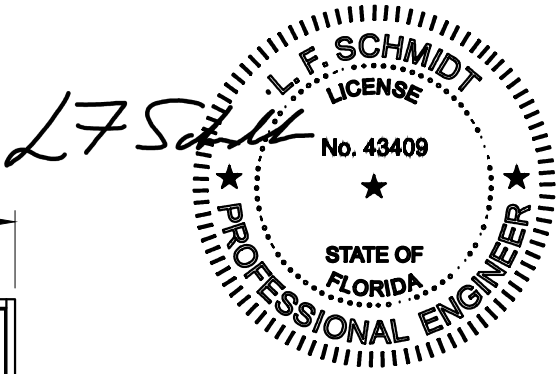
For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5.

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	Horizontal cross sections
4	Vertical cross sections
5	Buck and frame anchoring - 2X buck masonry construction
6	Frame anchoring - 1X buck masonry construction
7	Bill of materials and components



SWING	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
INSWING	37.5" x 98.0"	+60.0	-60.0
OUTSWING	37.5" x 96.5"	+60.0	-60.0



Digitally signed by Lyndon F Schmidt
Date: 2023.08.08 11:07:00 -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

WORLDWIDE DOOR COMPONENTS
8'0" OPAQUE

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

4

8/08/23

UPDATE TO 8TH ED. (2023)

FBC

LFS

3

7/01/20

UPDATE TO 7TH ED. (2020)

FBC

LFS

2

9/22/17

UPDATE TO 6TH ED. (2017)

FBC

LFS

1

2/07/17

UPDATE TO 5TH ED. (2014)

FBC

LFS

NO.

DATE

BY

REVISIONS

DATE: 9/14/09

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

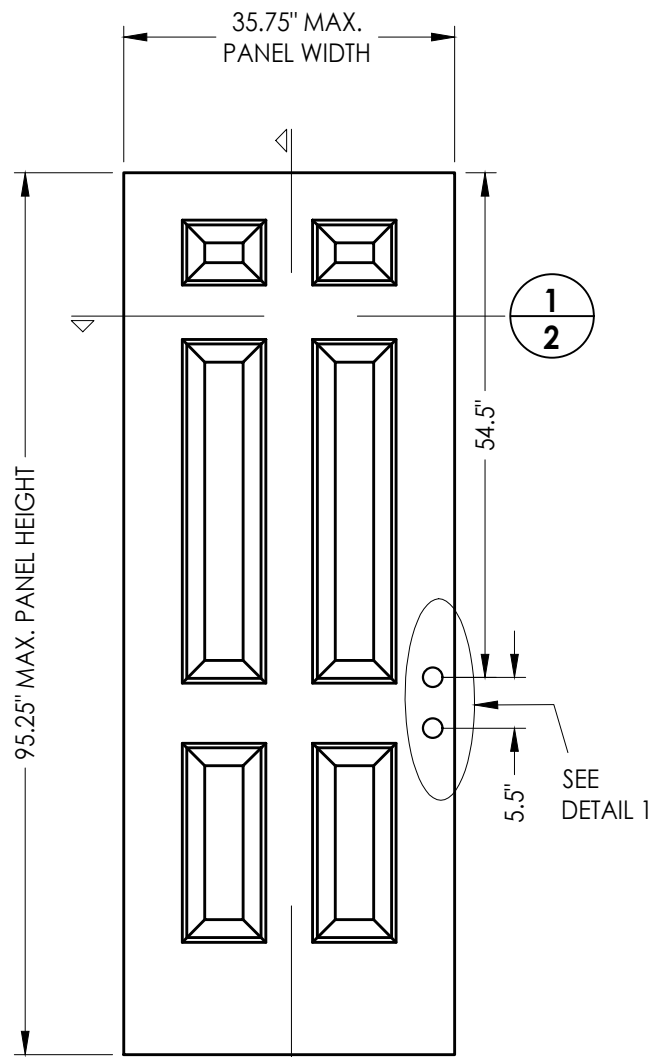
DRAWING NO.: FL-12991.2

SHEET 1 OF 7

© 2009 R.W. BUILDING CONSULTANTS INC.

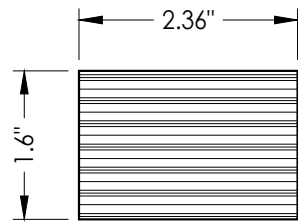
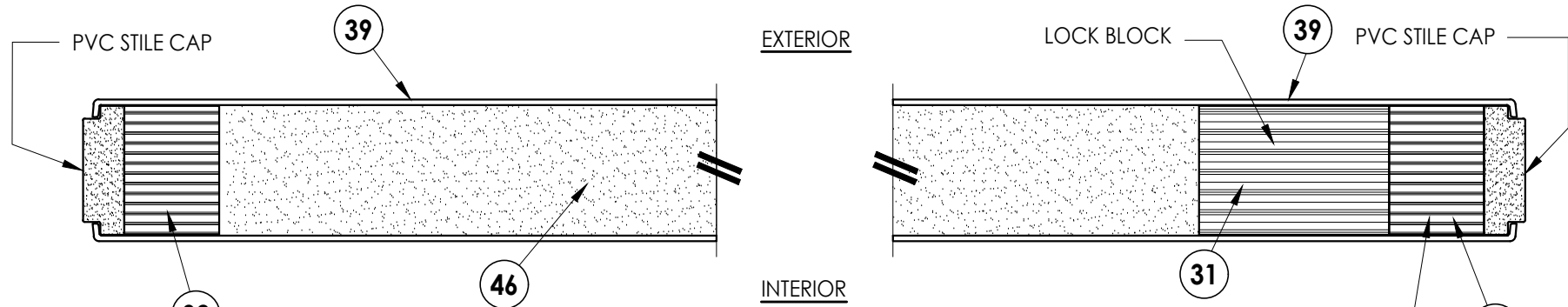
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

Z:\2023 FBC Drawings\Worldwide Door Components\FL-12991 R7\FL-12991.1-2.dwg

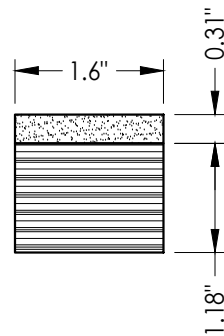


7 OPAQUE DOOR
"IMPACT"

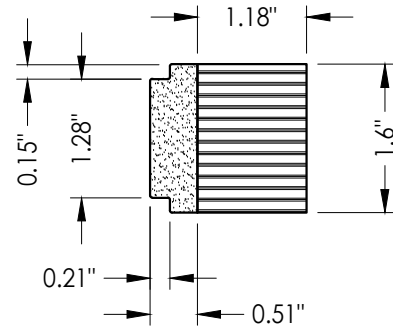
1
2 HORIZONTAL CROSS SECTION



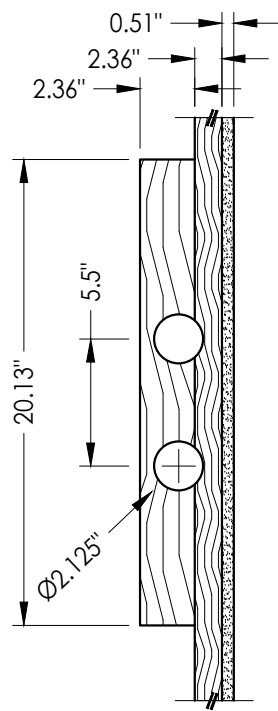
31 LOCK BLOCK



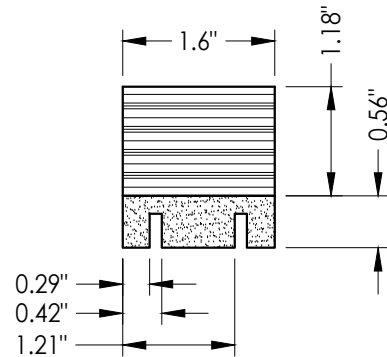
33 TOP RAIL



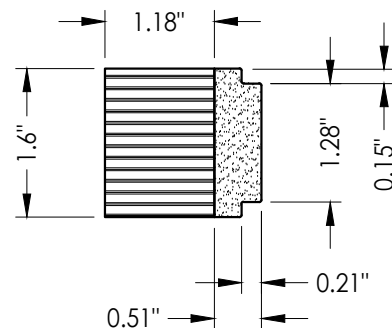
32 HINGE STILE



DETAIL 1

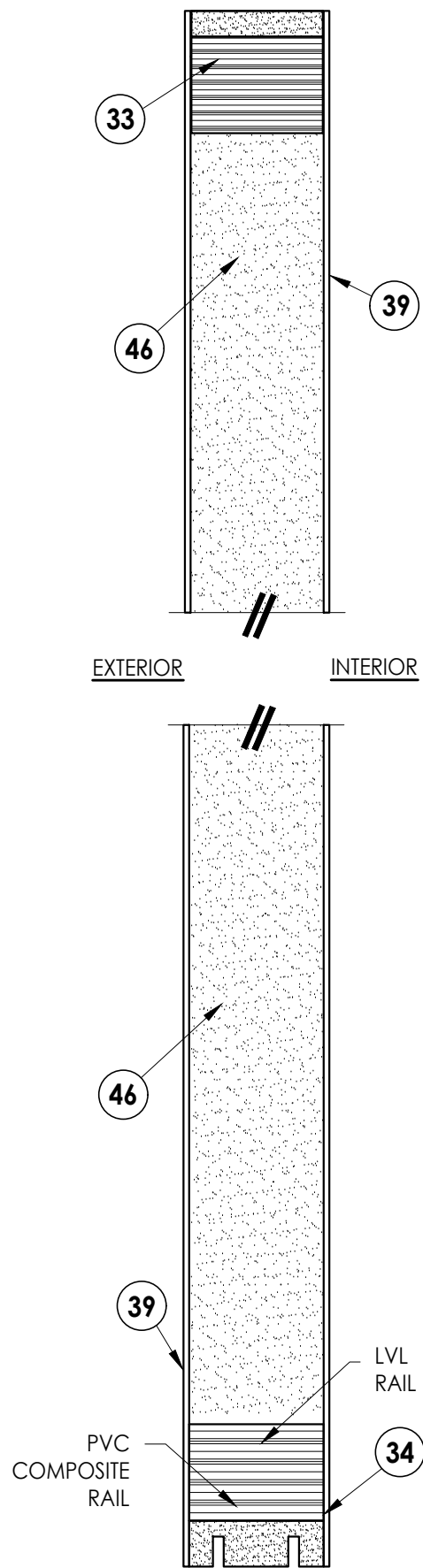


34 BOTTOM RAIL



30 LATCH STILE

2
2 VERTICAL CROSS SECTION



PRODUCT:		WORLDWIDE DOOR COMPONENTS	
		8'0" OPAQUE	
PART OR ASSEMBLY:		DOOR PANEL	
		CONSTRUCTION DETAILS	

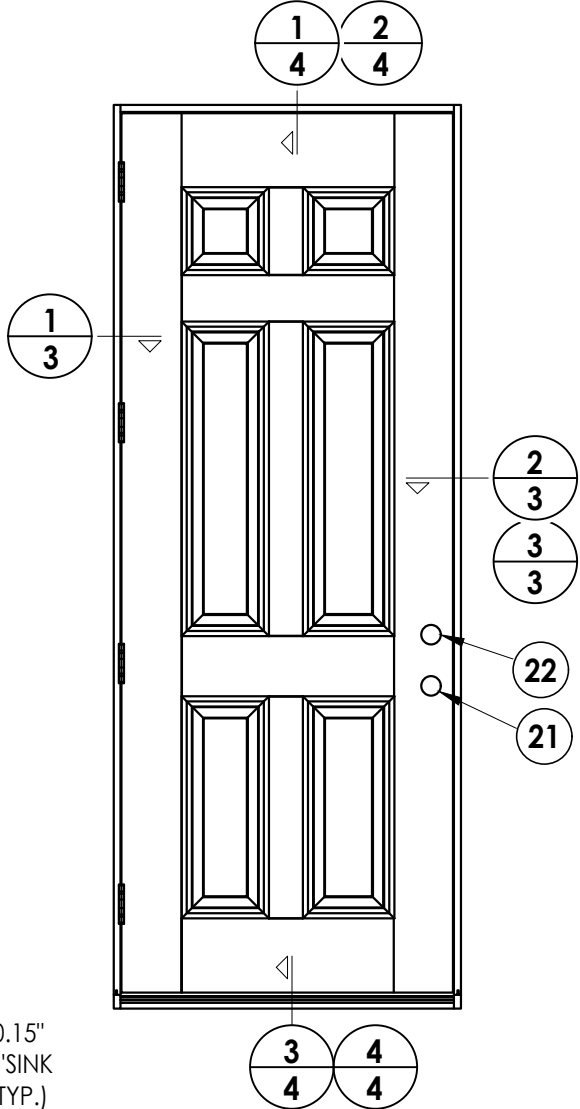
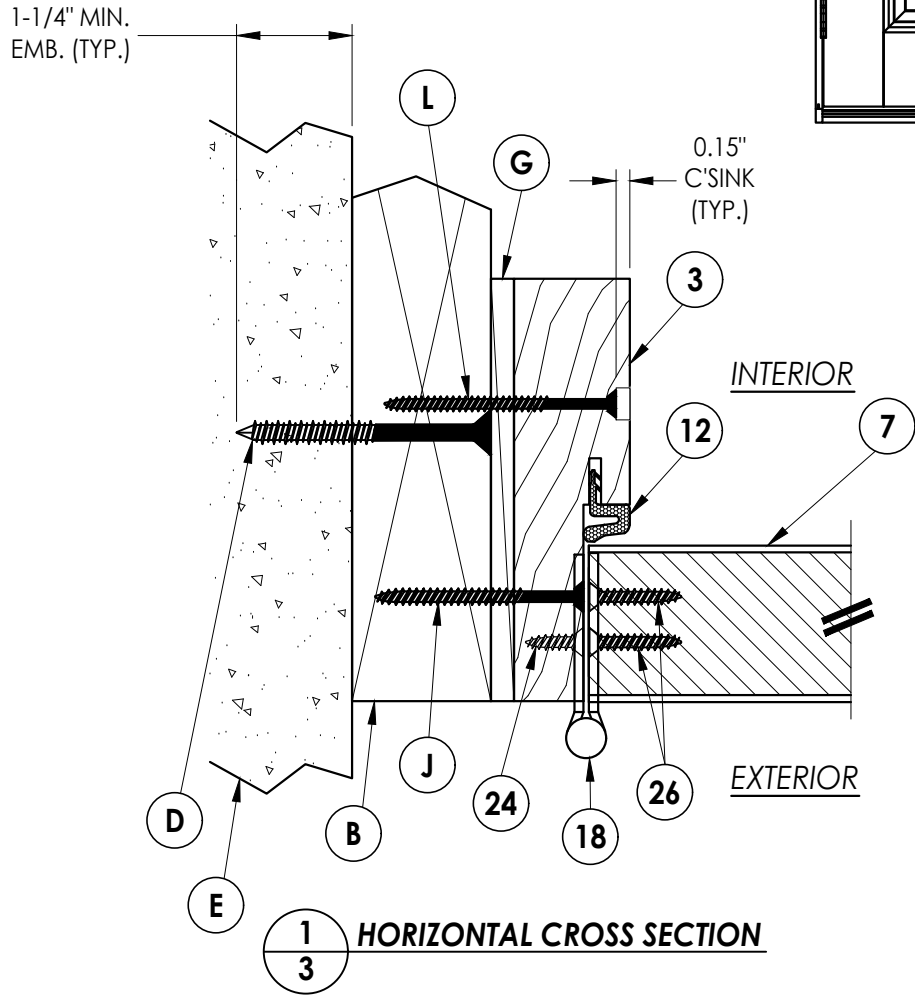
NO.	DATE	REVISIONS
4	8/08/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	7/01/20	UPDATE TO 7TH ED. (2020) FBC LFS
2	9/22/17	UPDATE TO 6TH ED. (2017) FBC LFS
1	2/07/17	UPDATE TO 5TH ED. (2014) FBC LFS

DATE:	9/14/09
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-12991.2
SHEET	2 OF 7

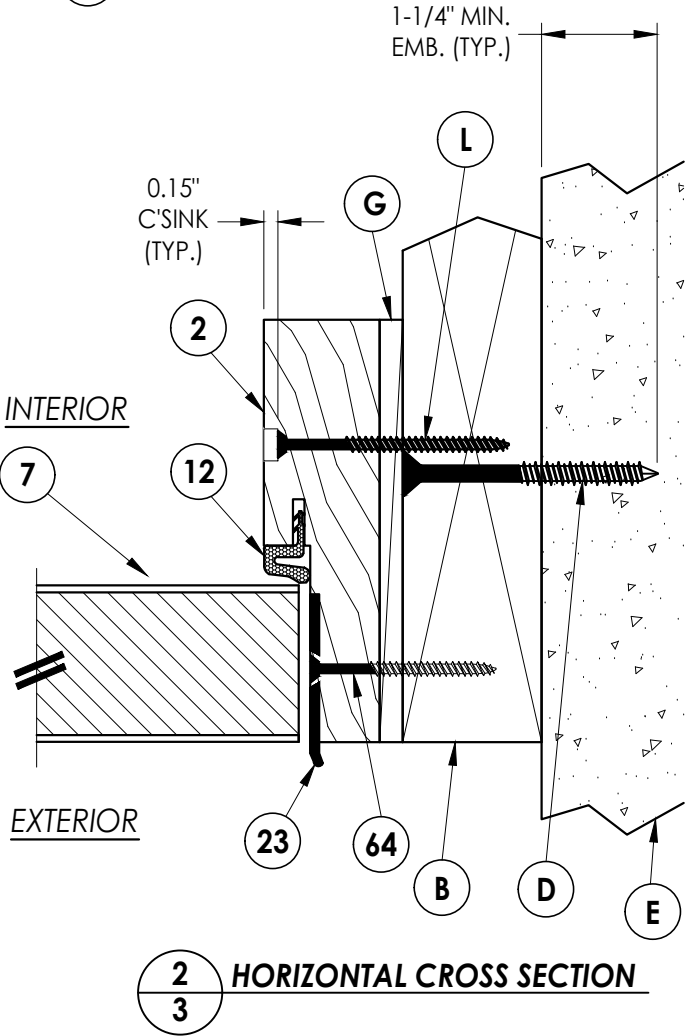
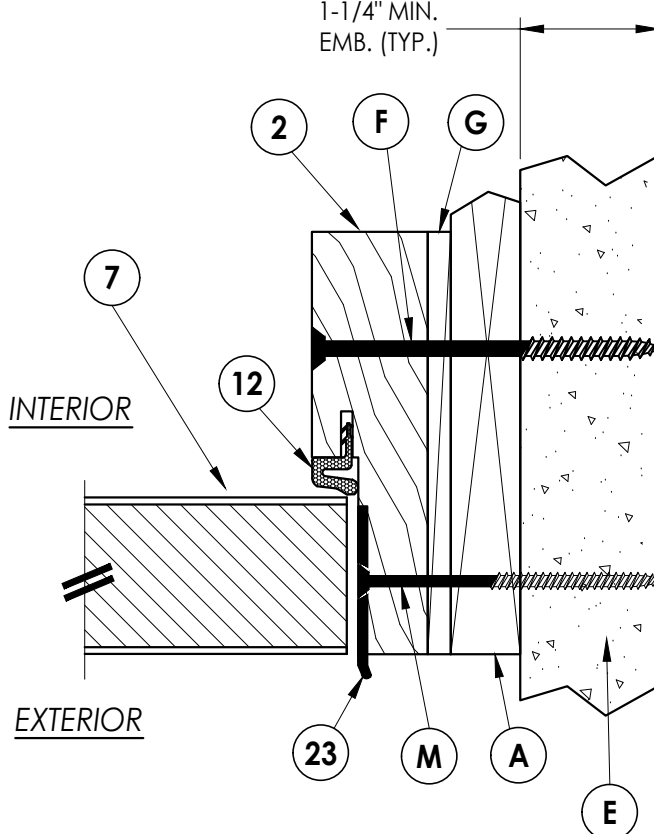
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

Z:\2023 FBC Drawings\Worldwide Door Components\FL-12991 R7\FL-12991.1-2.dwg

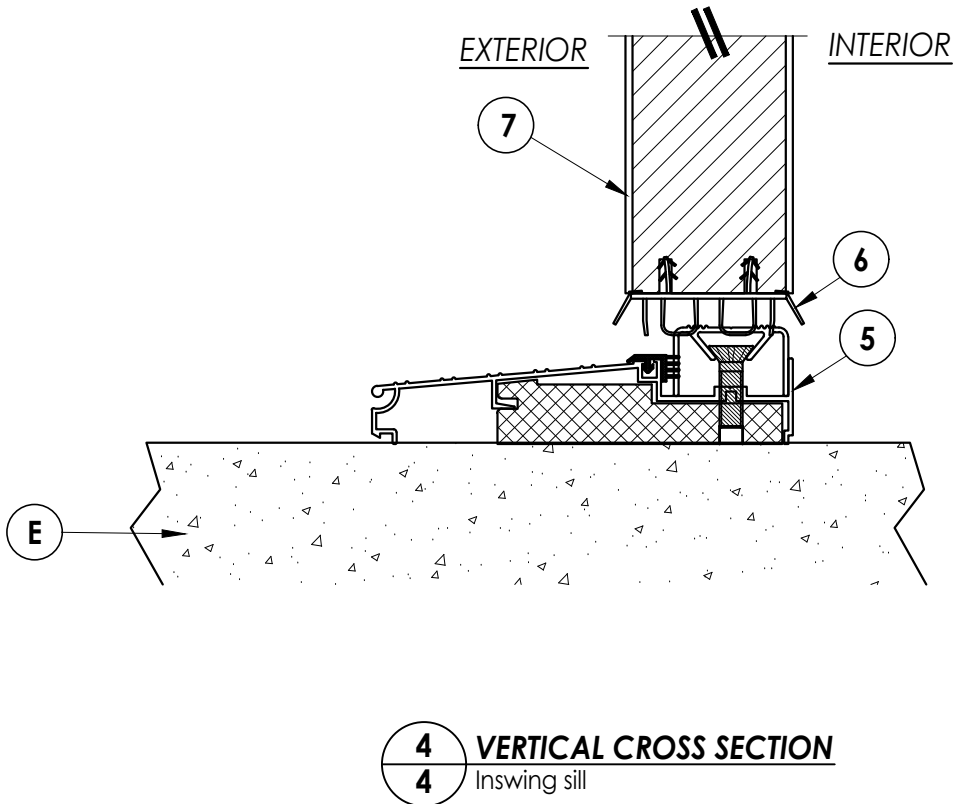
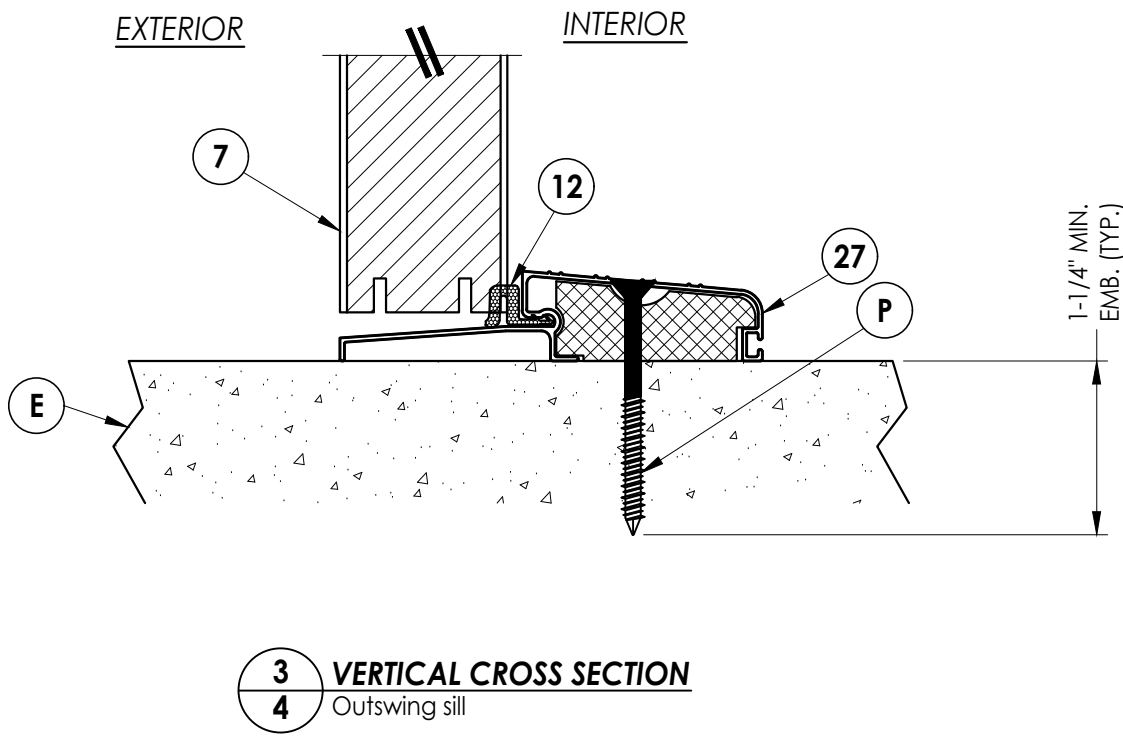
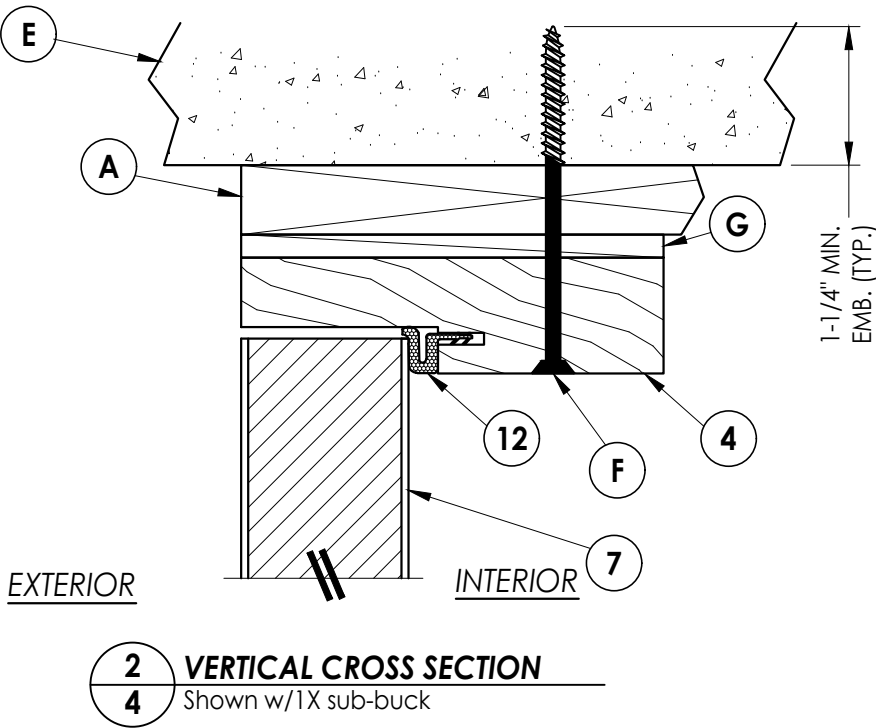
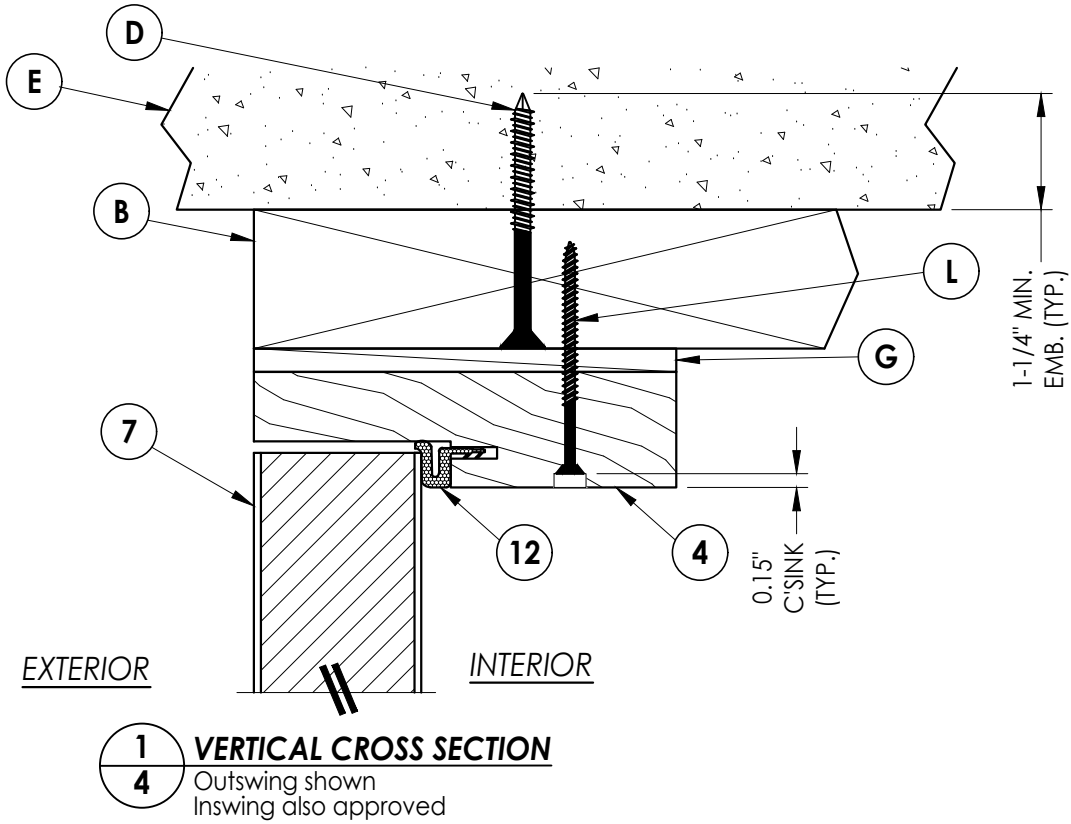


3
3 HORIZONTAL CROSS SECTION
Shown w/1X sub-buck



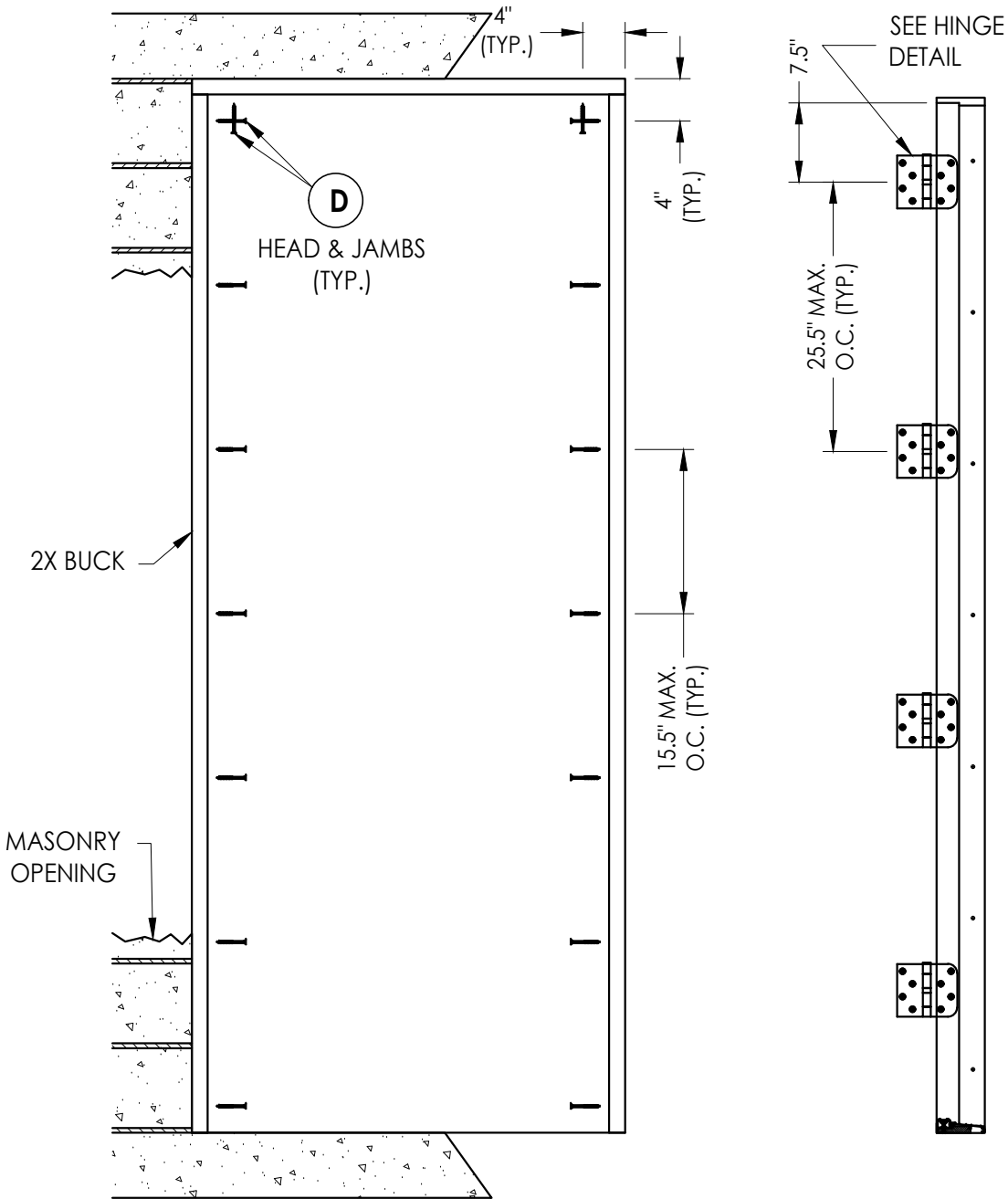
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409										BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
PRODUCT: WORLDWIDE DOOR COMPONENTS 8'0" OPAQUE										PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											</

Z:\2023 FBC Drawings\Worldwide Door Components\FL-12991 R7\FL-12991.1-2.dwg



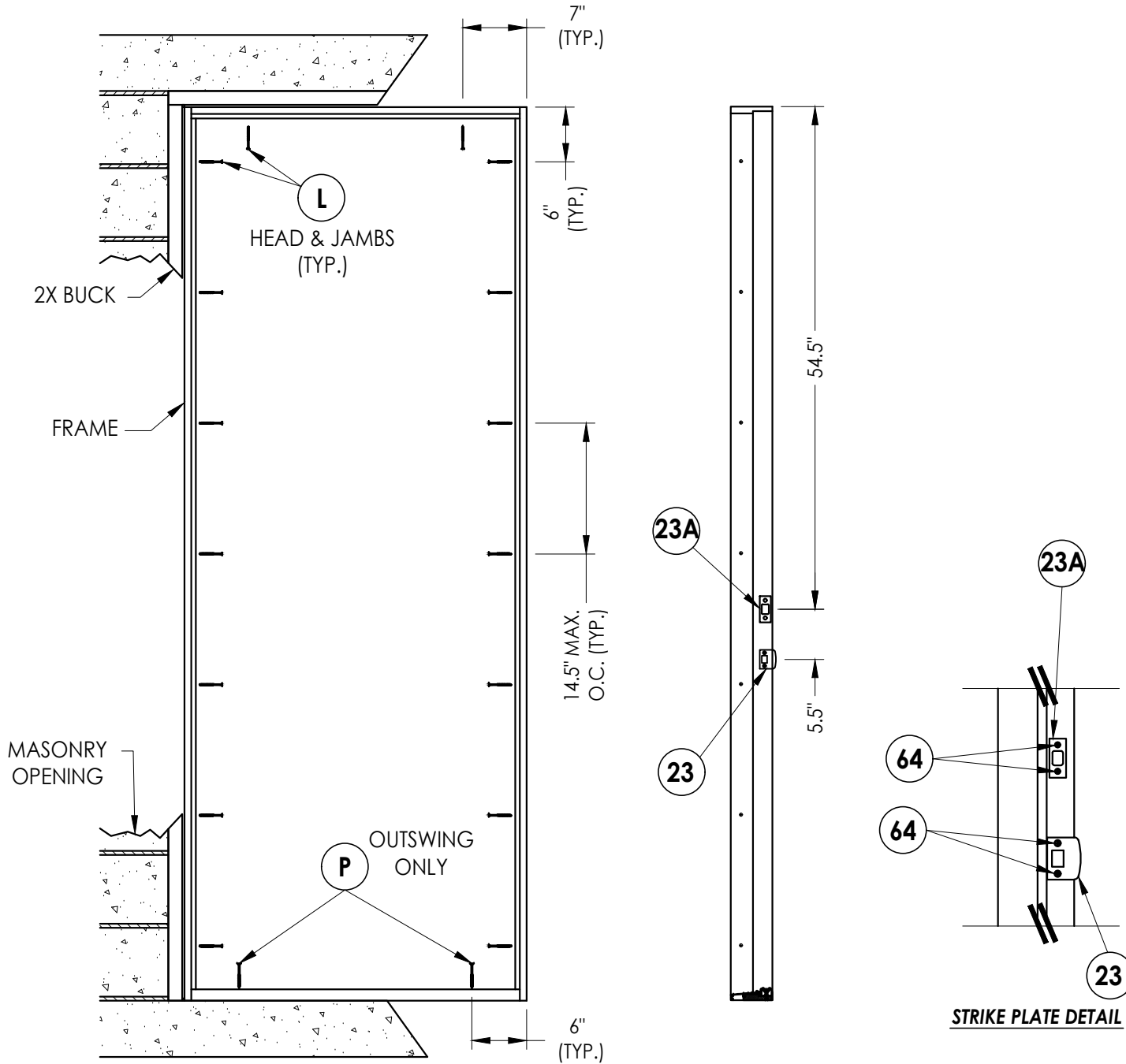
PRODUCT:		WORLDWIDE DOOR COMPONENTS		8'0" OPAQUE	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS			
DOCUMENTS PREPARED BY:		Lynndon F. Schmidt		P.E. No. 43409	
BUILDING CONSULTANTS, INC.		P.O. Box 230, Valrico, FL 33595		Phone No.: 813.659.9197	
FBPE Registry No. 9813					
DATE:		9/14/09			
SCALE:		N.T.S.			
DWG. BY:		JK			
CHK. BY:		LFS			
DRAWING NO.:		FL-12991.2			
SHEET		4		OF 7	

Z:\2023 FBC Drawings\Worldwide Door Components\FL-12991 R7\FL-12991.1-2.dwg



BUCK ANCHORING

HINGE JAMB



FRAME ANCHORING
Masonry 2X buck construction

STRIKE JAMB

STRIKE PLATE DETAIL

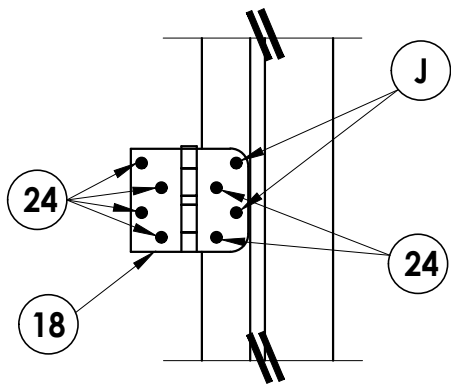
CONCRETE ANCHOR NOTES:

- 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:

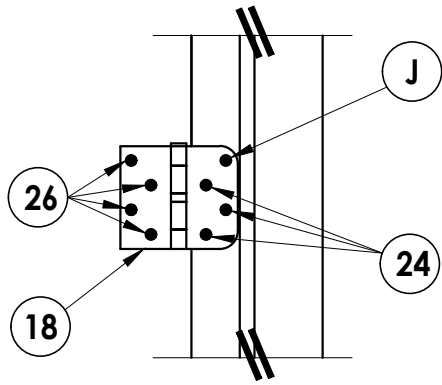
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW BUILDEX TAPCON®	1/4"	1-1/4"	2"	4"
ELCO ULTRACON®	1/4"	1-1/4"	1"	4"

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.



HINGE DETAIL
Outswing

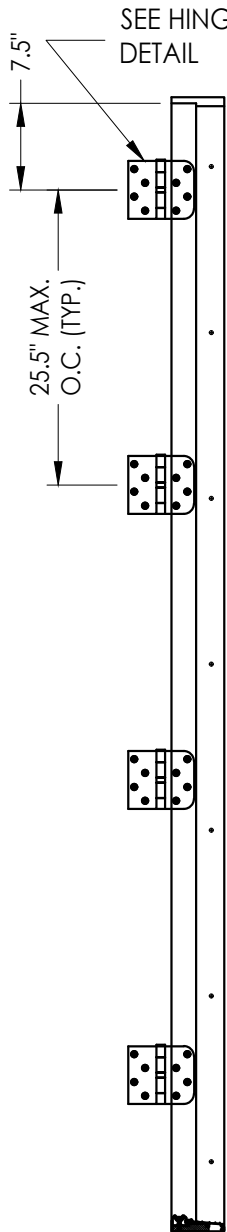


HINGE DETAIL
Inswing

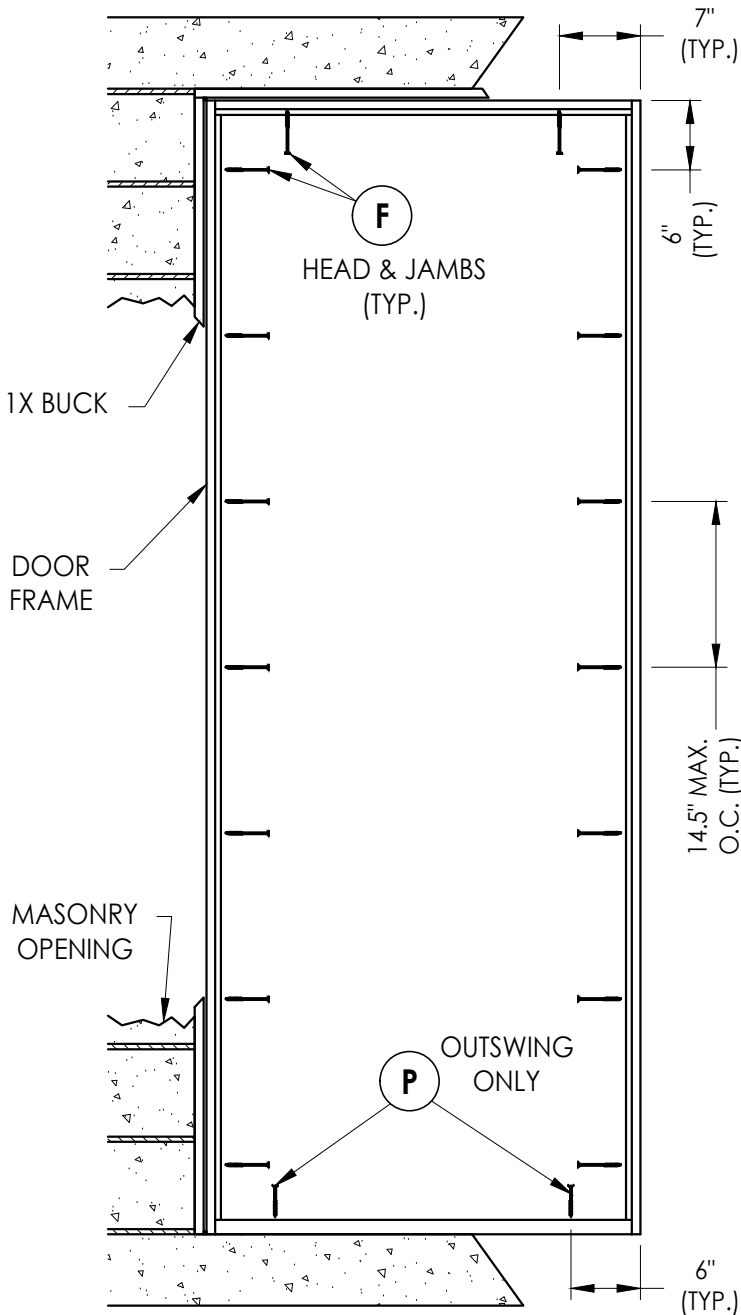
PRODUCT:		WORLDWIDE DOOR COMPONENTS		8'0" OPAQUE	
PART OR ASSEMBLY:		BUCK AND FRAME ANCHORING		2X BUCK MASONRY CONSTRUCTION	
DATE:		4	8/08/23	UPDATE TO 8TH ED. (2023)	FBC LFS
SCALE:		3	7/01/20	UPDATE TO 7TH ED. (2020)	FBC LFS
DWG. BY:		2	9/22/17	UPDATE TO 6TH ED. (2017)	FBC LFS
CHK. BY:		1	2/07/17	UPDATE TO 5TH ED. (2014)	FBC LFS
DRAWING NO.:		NO.		DATE	
SHEET		5		OF 7	

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

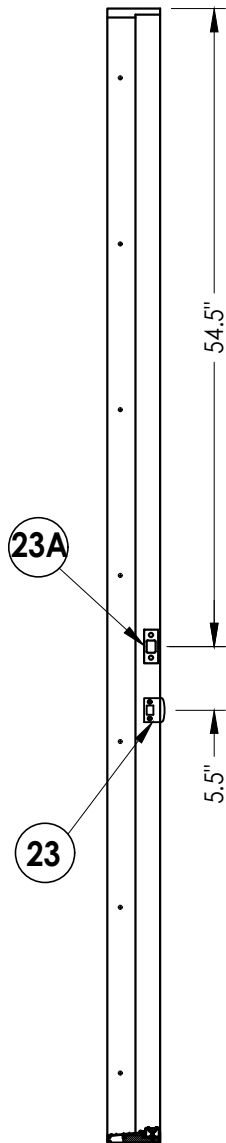
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



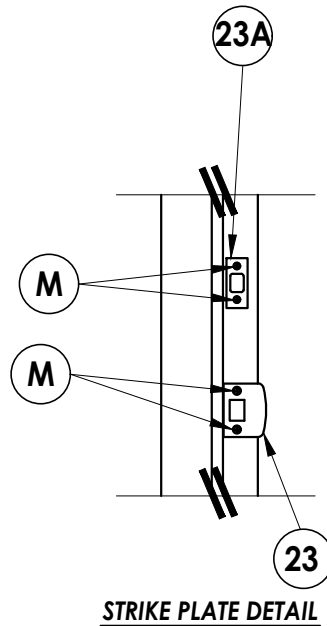
HINGE JAMB



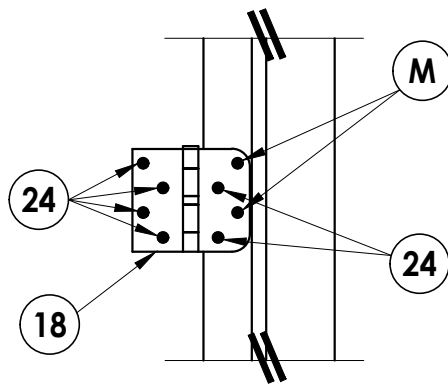
FRAME ANCHORING
Masonry 1X buck construction



STRIKE JAMB

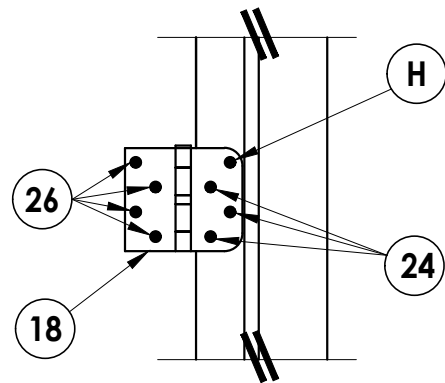


STRIKE PLATE DETAIL



HINGE DETAIL

Outswing



HINGE DETAIL

Inswing

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 BUILDEX TAPCON®	3/16"	1-1/4"	3"	1-1/2"
	1/4"	1-1/4"	2"	4"
ELCO ULTRACON®	1/4"	1-1/4"	1"	4"

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.

4	8/08/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
3	7/01/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
2	9/22/17	UPDATE TO 6TH ED.	(2017)	FBC	LFS
1	2/07/17	UPDATE TO 5TH ED.	(2014)	FBC	LFS
NO.	DATE				BY
REVISIONS					

DATE: 9/14/09

SCALE: *N.T.S.*

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-12991.2

SHEET 6 OF 7

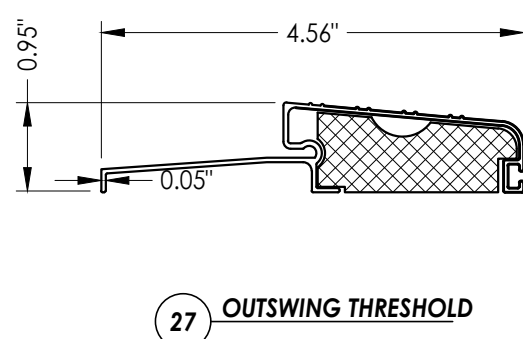
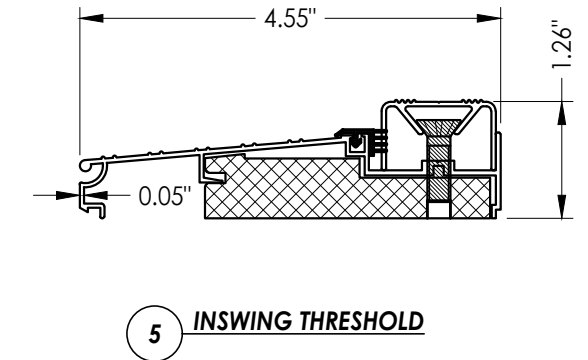
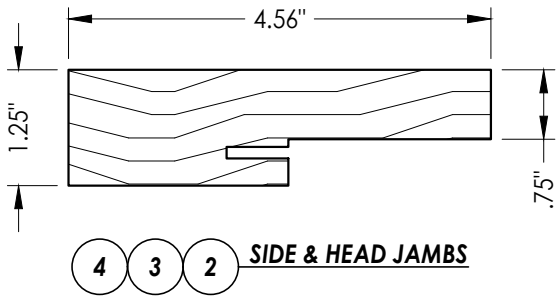
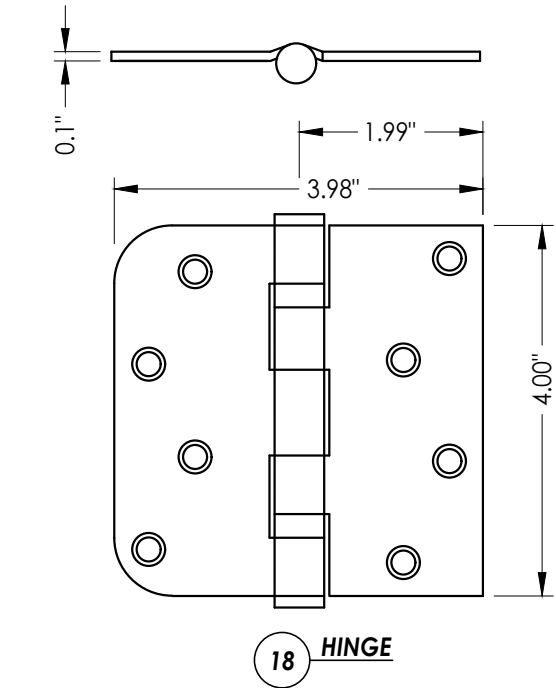
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

PART OR ASSEMBLY:
FRAME ANCHORING
1X BUCK MASONRY CONSTRUCTION

[illegible]

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" PFH ELCO 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" PFH ELCO OR ITW CONCRETE SCREW	STEEL
G	MAX. 1/4" SHIM SPACE	WOOD
H	1/4" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
J	#9 X 2-1/4" PFH WS	STEEL
L	#8 X 2-1/2" PFH WS (1.15" MIN. EMBEDMENT)	STEEL
M	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
P	1/4" X 2-3/4" PFH ITW CONCRETE SCREW	STEEL
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	ALUMINUM
6	DOOR BOTTOM SWEEP	PVC
7	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
12	WEATHERSTRIP	-
18	3.983" X 4.0" HINGE MIN 0.098" THICK	STEEL
21	KWIKSET PASSAGE LOCK - KWIKSET SERIES	STEEL
22	KWIKSET DEADBOLT - KWIKSET SERIES (660)	STEEL
23	STRIKE PLATE	STEEL
23A	DEADBOLT PLATE	STEEL
24	#9 X 5/8" PFH WS	STEEL
26	#9 X 1.0" PFH WS	STEEL
27	OUTSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.
30	LATCH STILE	LVL/PVC
31	LVL LOCK BLOCK	LVL
32	HINGE STILE	LVL/PVC
33	TOP RAIL	LVL/PVC
34	BOTTOM RAIL	LVL/PVC
39	FIBERGLASS SKIN (0.08" MIN. THICKNESS)	FIBERGLASS
46	DOOR PANEL CORE FOAMED	POLYURETHANE
64	#8 X 2" PFH WOOD SCREW	STEEL



Documents Prepared By:		Lyndon F. Schmidt		P.E. No. 43409	
PRODUCT:		WORLDWIDE DOOR COMPONENTS 8'0" OPAQUE			
PART OR ASSEMBLY:		BILL OF MATERIALS AND COMPONENTS			
4		8/08/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
3		7/01/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
2		9/22/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
1		2/07/17	UPDATE TO 5TH ED. (2014)	FBC	LFS
NO.		DATE			
		REVISIONS			
DATE: 9/14/09					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-12991.2					
SHEET 7 OF 7					