

WORLDWIDE Door Components

5017 N. Coolidge
Tampa, FL 33614

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including 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 the "HVHZ", this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
4. This "IMPACT" door jamb, mullion, weatherstripping and thresholds, as components, are to be used in combination as a substitute for similar components in an impact approved continuous head & sill (complies with Section 1626 of the FBC) door system possessing a current Florida Statewide Product Approval (Including the "HVHZ").
5. The design pressure of the assembly shall be the lesser of the design pressure for the component assembly shown in this approval or the design pressure of the system assembly used in conjunction with this approval.
6. The maximum frame size of the door assembly shall be lesser of the maximum frame size stated in this approval or the maximum frame size of the system assembly approval used in conjunction with this approval.
7. Refer to the separate Florida Product Approval for the swing door used in conjunction with this component approval to determine the ability of the system to meet the water infiltration requirements for the "HVHZ".
8. Air and water infiltration qualifications to be reviewed by the Building Official.
9. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
10. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

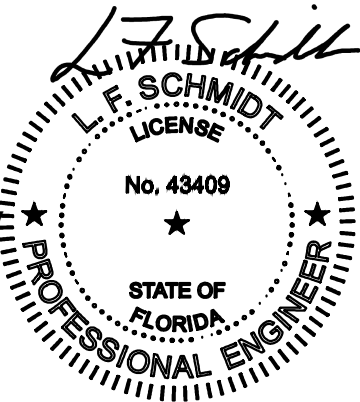
TABLE OF CONTENTS			
SHEET #	DESCRIPTION	SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes	7	2X Buck Anchoring (O/X, X/O, OXO)
2	Elevations	8	2X Buck Anchoring (OXXO)
3	Horizontal & Vertical Cross Sections (2X Buck)	9	Frame Anchoring (O/X, X/O, OXO) & Hardware Details
4	Horizontal & Vertical Cross Sections (1X Buck)	10	Frame Anchoring (OXXO) & Hardware Details
5	Horizontal Cross Sections	11	Bill of Materials & Components
6	Vertical Cross Sections (Thresholds)		

"4Ever Frame"

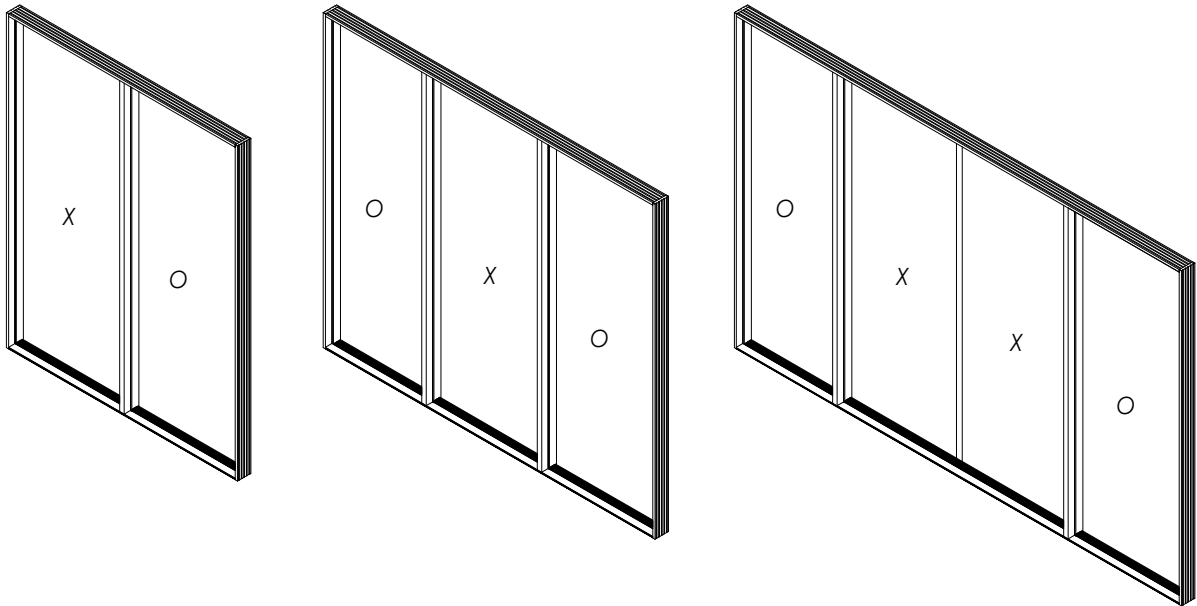
CONTINUOUS HEAD & SILL FRAME SYSTEM (Utilizing Composite Components)

INSWING / OUTSWING
"IMPACT"

Digitally signed by
Lyndon F Schmidt
Date: 2023.08.08
12:00:33 -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



CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
OX/XO	75.0" x 98.0"	+60.0	-65.0	+60.0	-60.0
OXO	112.5" x 98.0"	+60.0	-65.0	+60.0	-60.0
OXXO	149.5" x 98.0"	+50.0	-55.0	+50.0	-50.0

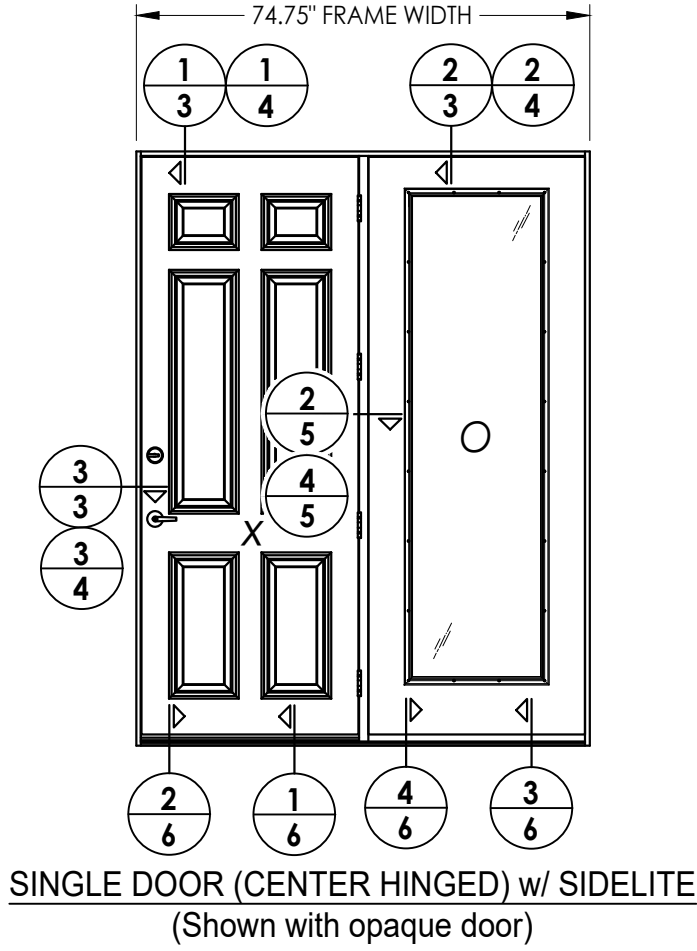
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

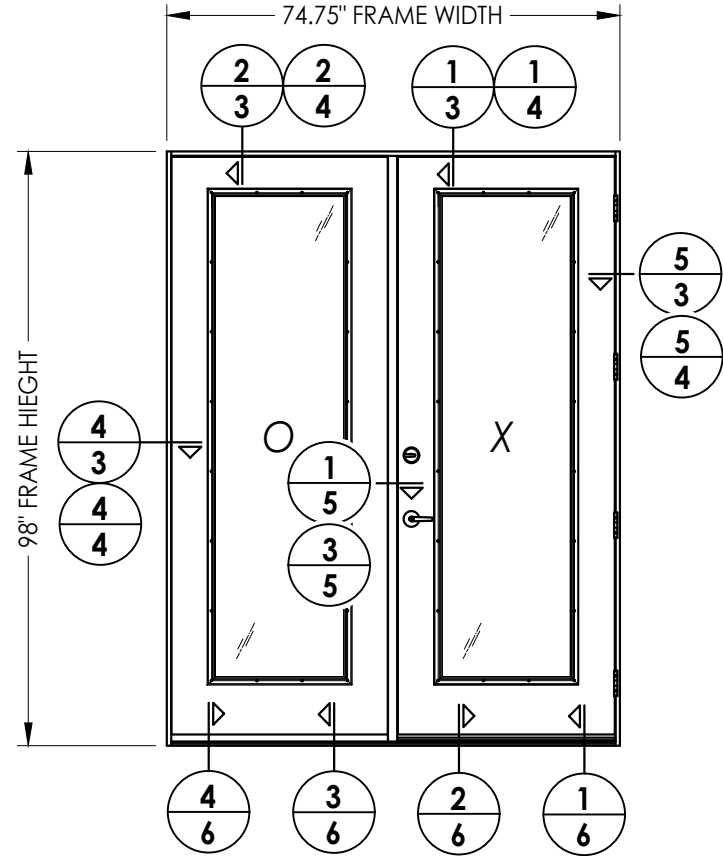
PRODUCT: WORLDWIDE DOOR
COMPONENTS
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS	
		BY	DATE
5	8/08/23	LFS	UPDATE TO 8TH ED. (2023) FBC
4	7/01/20	LFS	REV. COMP. BUILDERS ED. FRAME & LFS
3	7/24/19	LFS	UPDATE TO 7TH ED. (2020) FBC
2		LFS	ADD COMP. BUILDERS ED. FRAME
1		LFS	BY

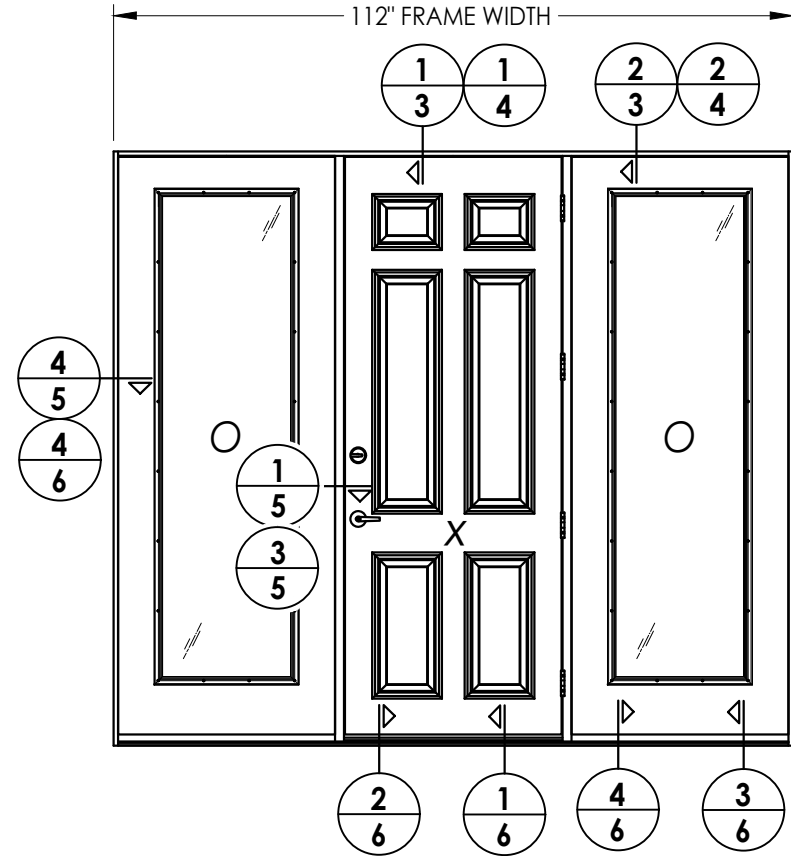
DATE: 5/08/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-14969.4
SHEET 1 OF 11



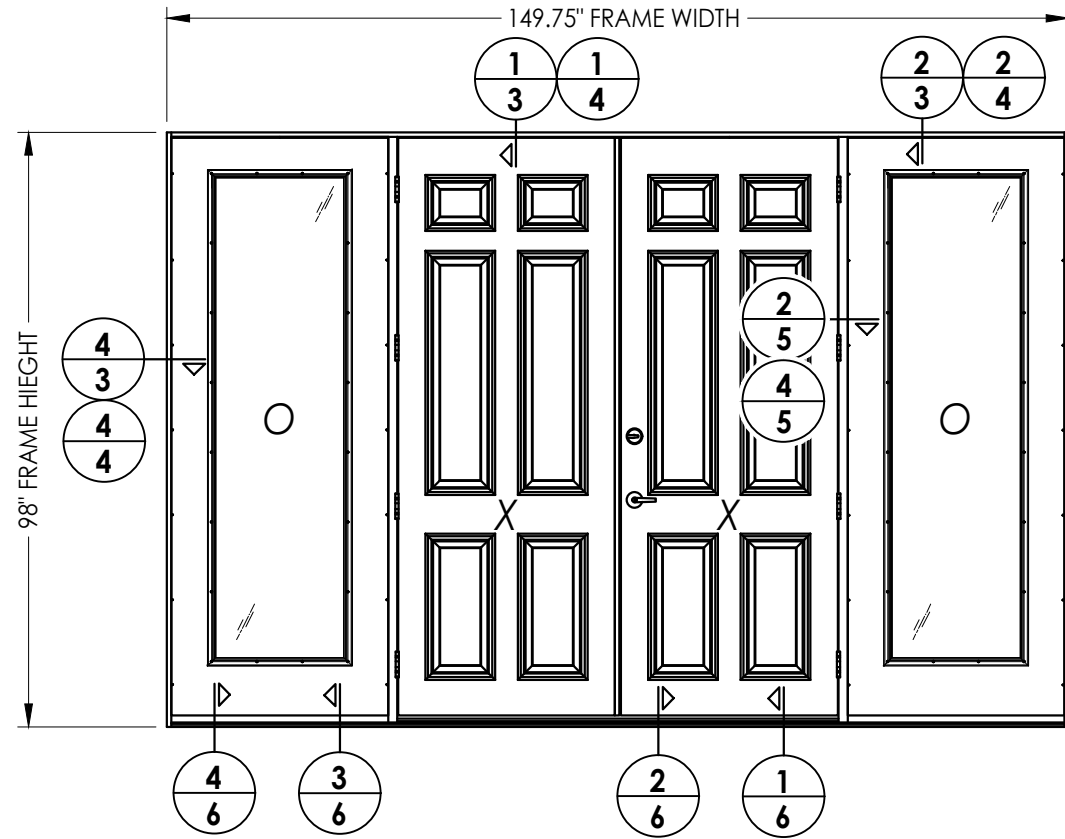
SINGLE DOOR (CENTER HINGED) w/ SIDELITE
(Shown with opaque door)



SINGLE DOOR w/ SIDELITE
(Shown with glazed door)



SINGLE DOOR w/ SIDELITES
(Shown with opaque door)



DOUBLE DOOR w/ SIDELITES
(Shown with opaque door)

NOTE:
SEE SEPARATE SIDE-HINGED DOOR & SIDELITE
FLORIDA PRODUCT APPROVAL FOR DOOR & SIDELITE
CONSTRUCTION DETAILS NOT SHOWN, INCLUDING
LOCK HARDWARE, ASTRAGAL, HINGE & THRESHOLD
CONNECTIONS.

[illegible]



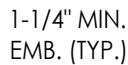
INTERIOR



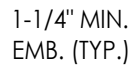
INTERIOR

NOTE:

1. Spacing for item #22: 6" from ends and 5 more equally spaced along sidelite (7 total).



Outswing shown (Inswing similar)



Outswing shown (Inswing similar)



Outswing shown (Inswing similar)

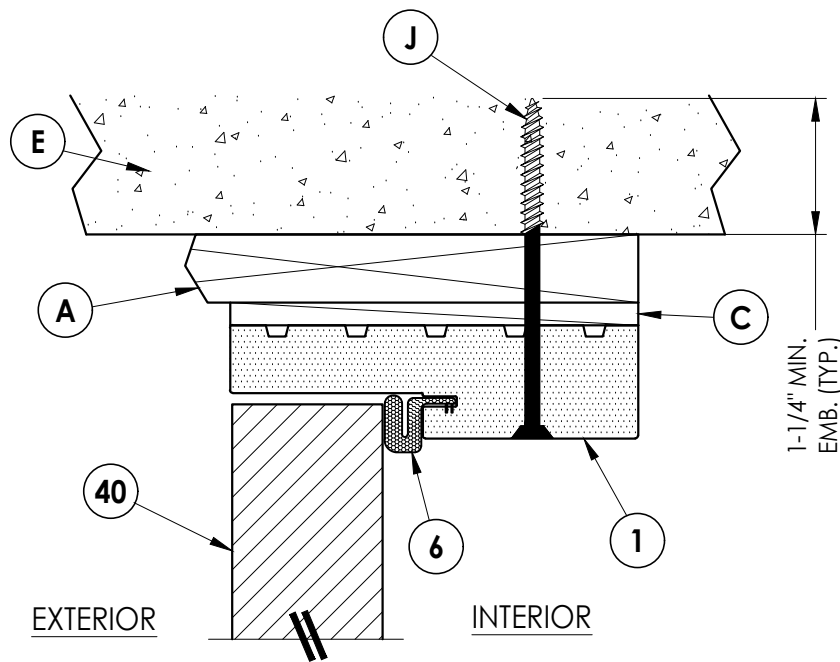
5	8/08/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
4	7/01/20	REV. COMP. BLDERS ED.	FRAME &	LFS
		UPDATE TO 7TH ED. (2020)	FBC	
3	7/24/19	ADD COMP. BUILDERS ED.	FRAME	LFS
NO.	DATE	REVISIONS		

DATE:	5/08/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-14969.4
SHEET	<u>3</u> OF <u>11</u>

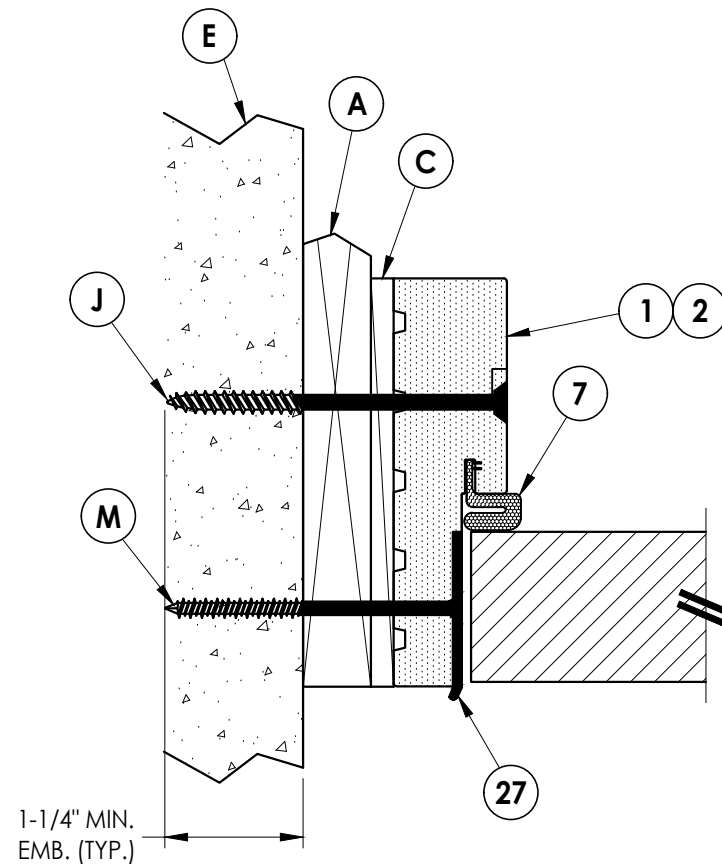
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33593

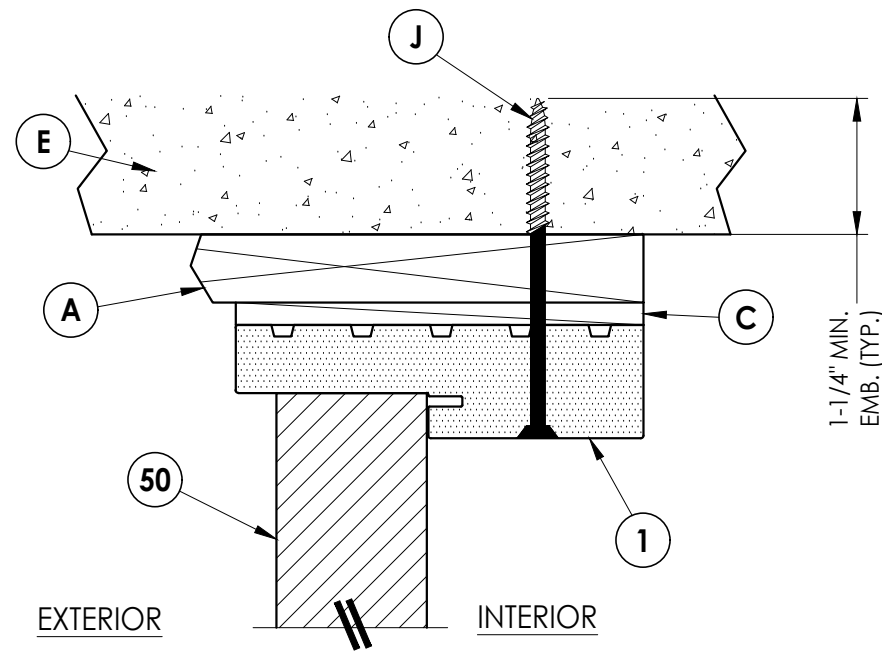
HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)



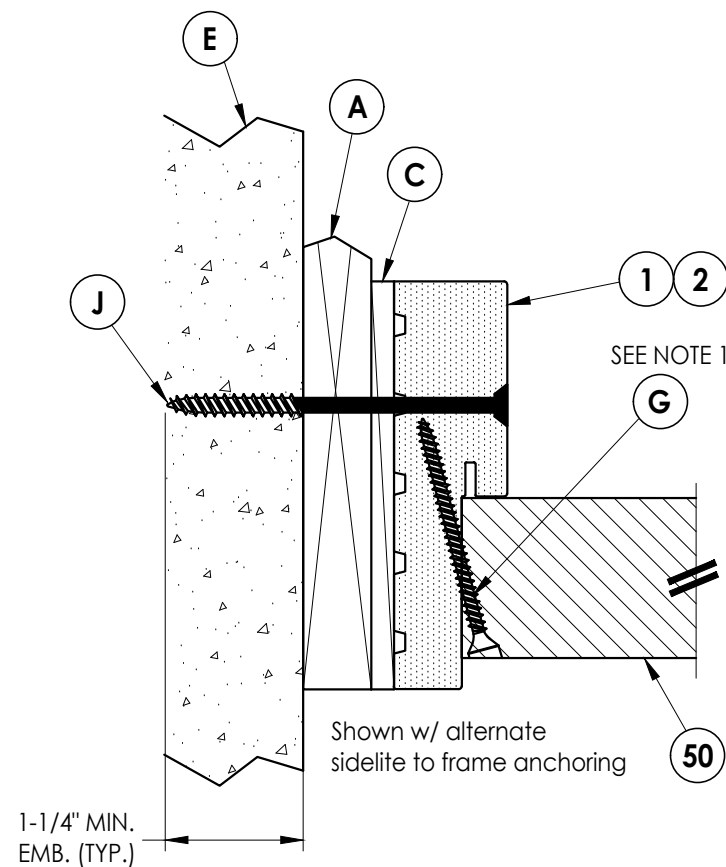
1 **VERTICAL CROSS SECTION**
4 Outswing shown (Inswing similar)



3 **HORIZONTAL CROSS SECTION**
 4 Outswing shown (Inswing similar)

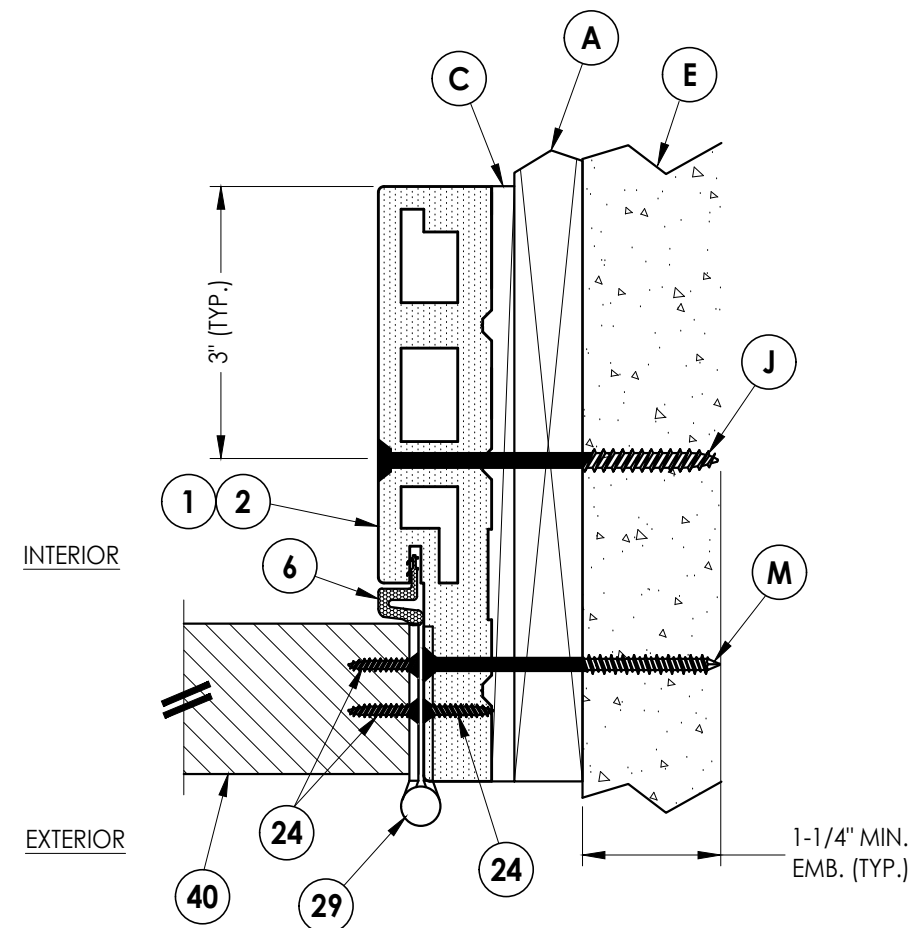


2 **VERTICAL CROSS SECTION**
4 Outswing shown (Inswing similar)



4 HORIZONTAL CROSS SECTION

4 Outswing shown (Inswing similar)



5 **HORIZONTAL CROSS SECTION**
4 Outswing shown (Inswing similar)
 Shown w/ alternate 6-9/16" Jamb

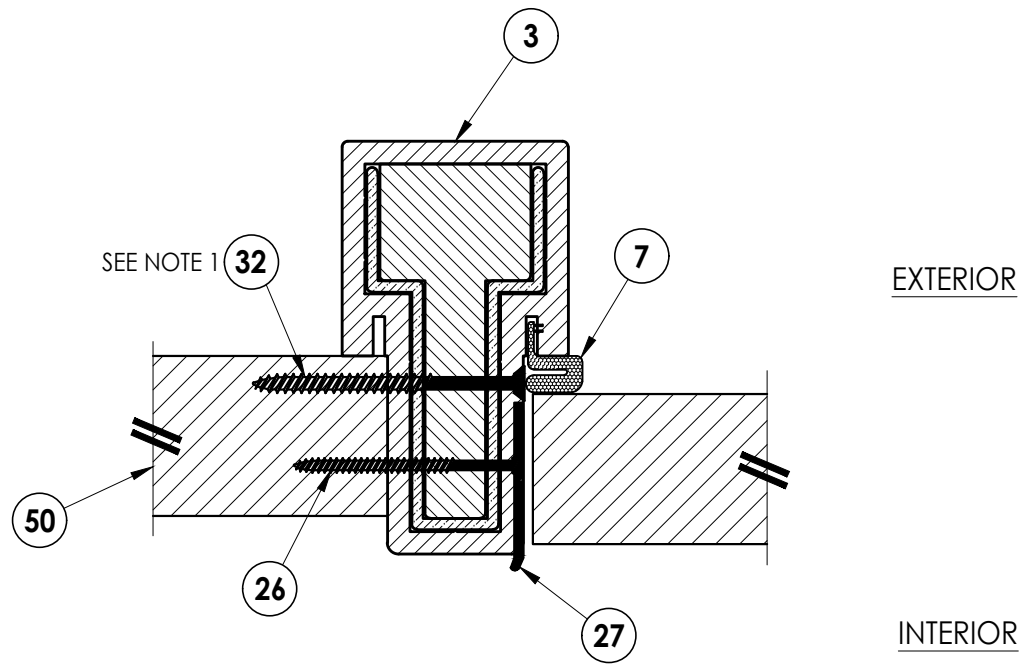
NOTE:

1. Spacing for item G: 6" from ends and 5 more equally spaced along sidelite (7 total).

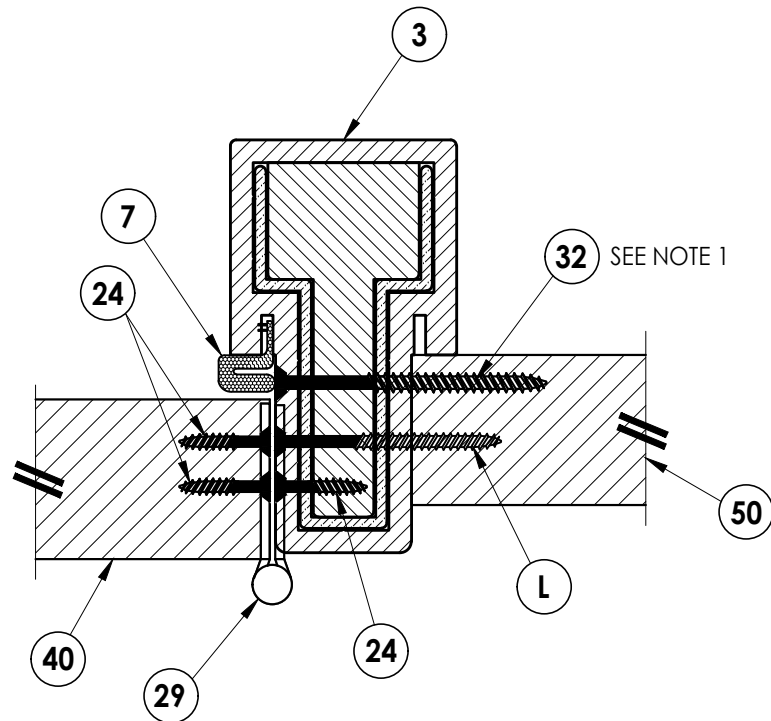
[illegible]

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

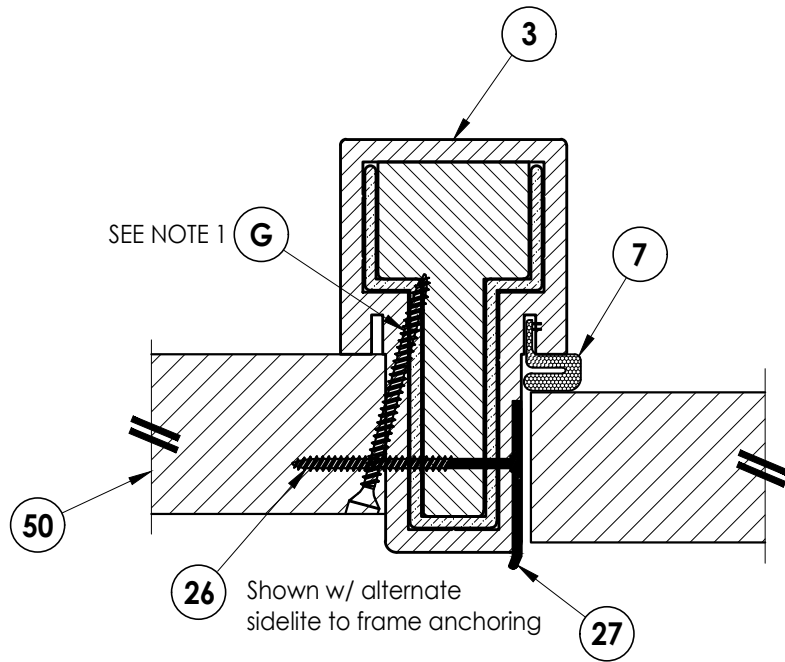
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



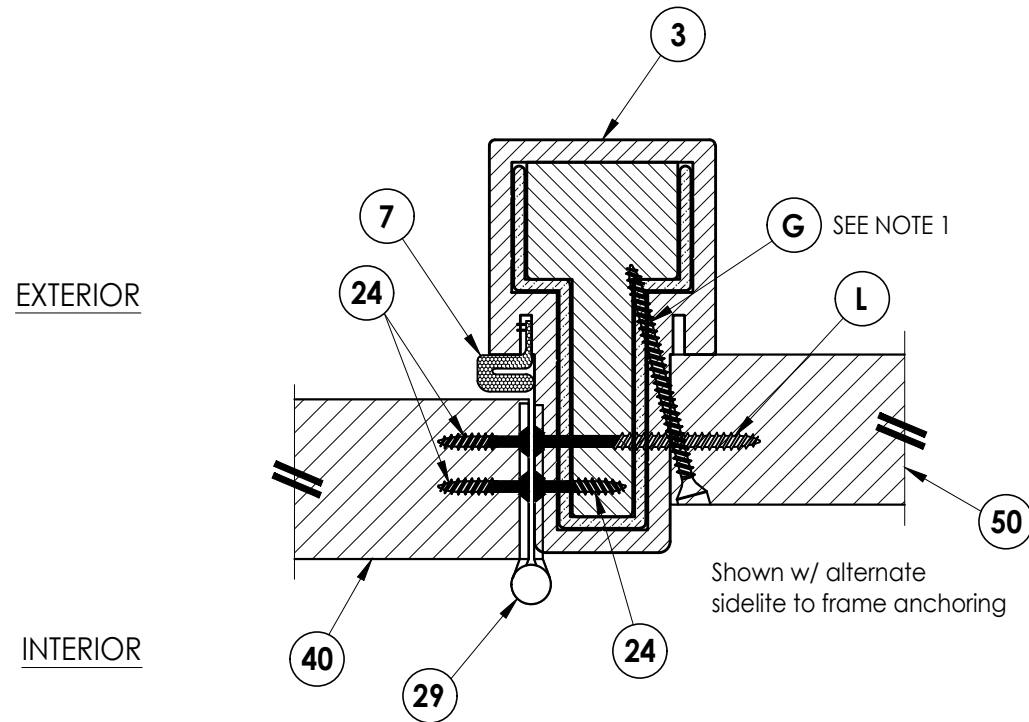
1
5 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)



2
5 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)



3
5 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)



4
5 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)

NOTE:
1. Spacing for items #32 & G: 6" from ends plus
5 more equally spaced along sidelite (7 total).

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:
WORLDWIDE DOOR
COMPONENTS

PART OR ASSEMBLY:
HORIZONTAL CROSS
SECTIONS

NO.	DATE	REVISIONS
5	8/08/23	UPDATE TO 8TH ED. (2023) FBC LFS
4	7/01/20	REV. COMP. BLDERS ED. FRAME & LFS
3	7/24/19	UPDATE TO 7TH ED. (2020) FBC LFS
		ADD COMP. BUILDERS ED. FRAME LFS

DATE: 5/08/17

SCALE: N.T.S.

DWG. BY: JK

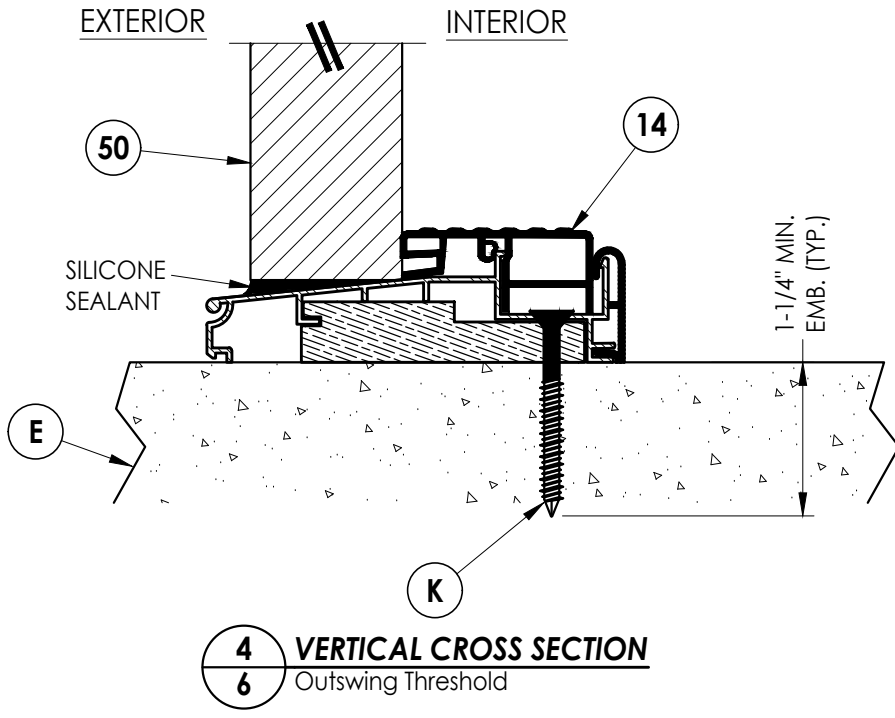
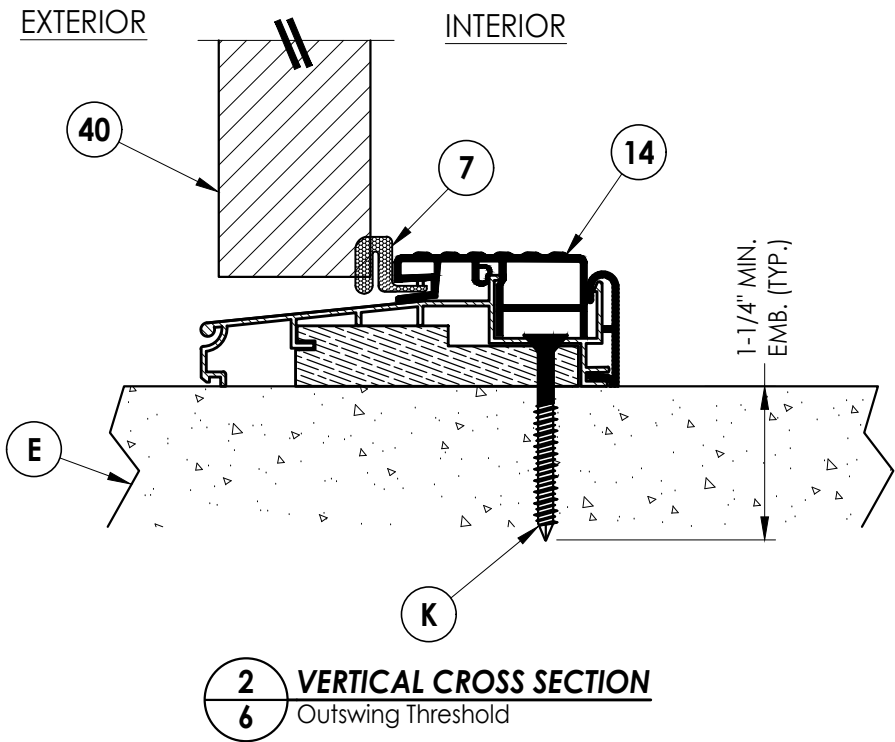
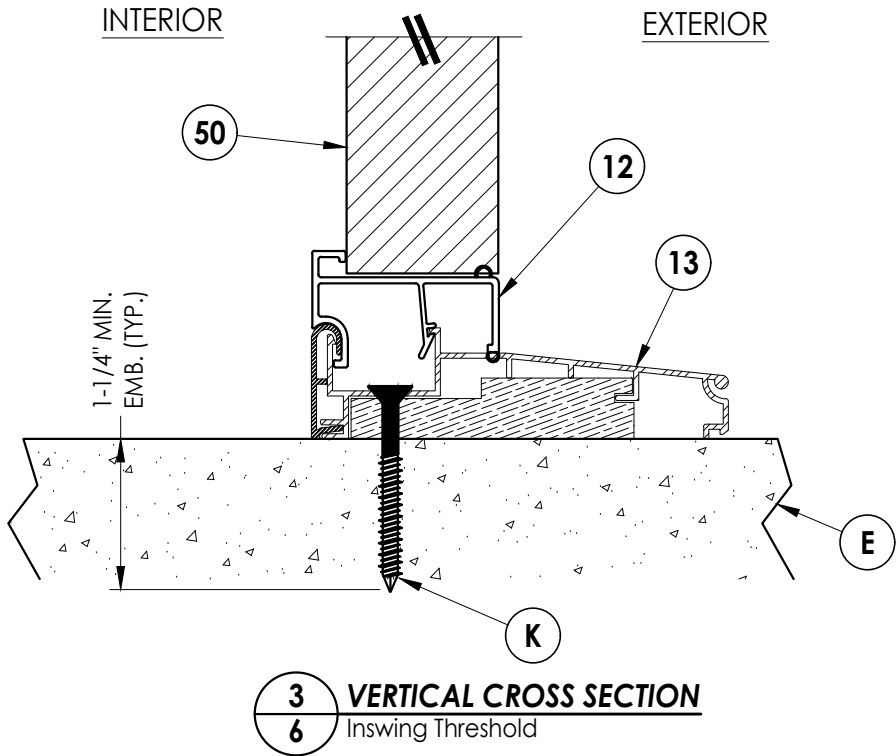
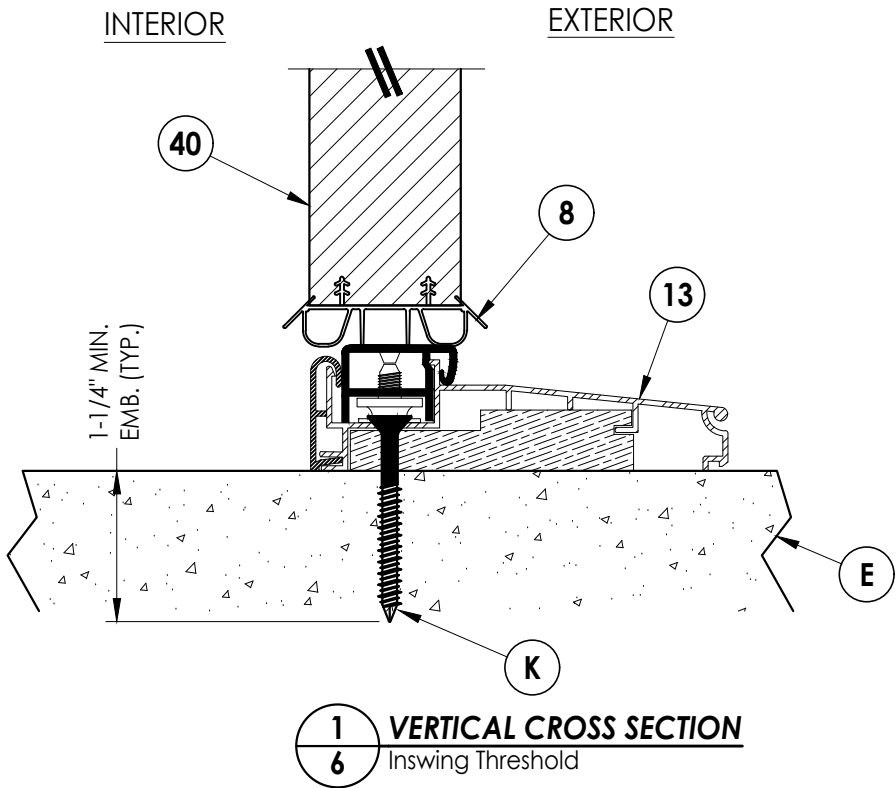
CHK. BY: LFS

DRAWING NO.:

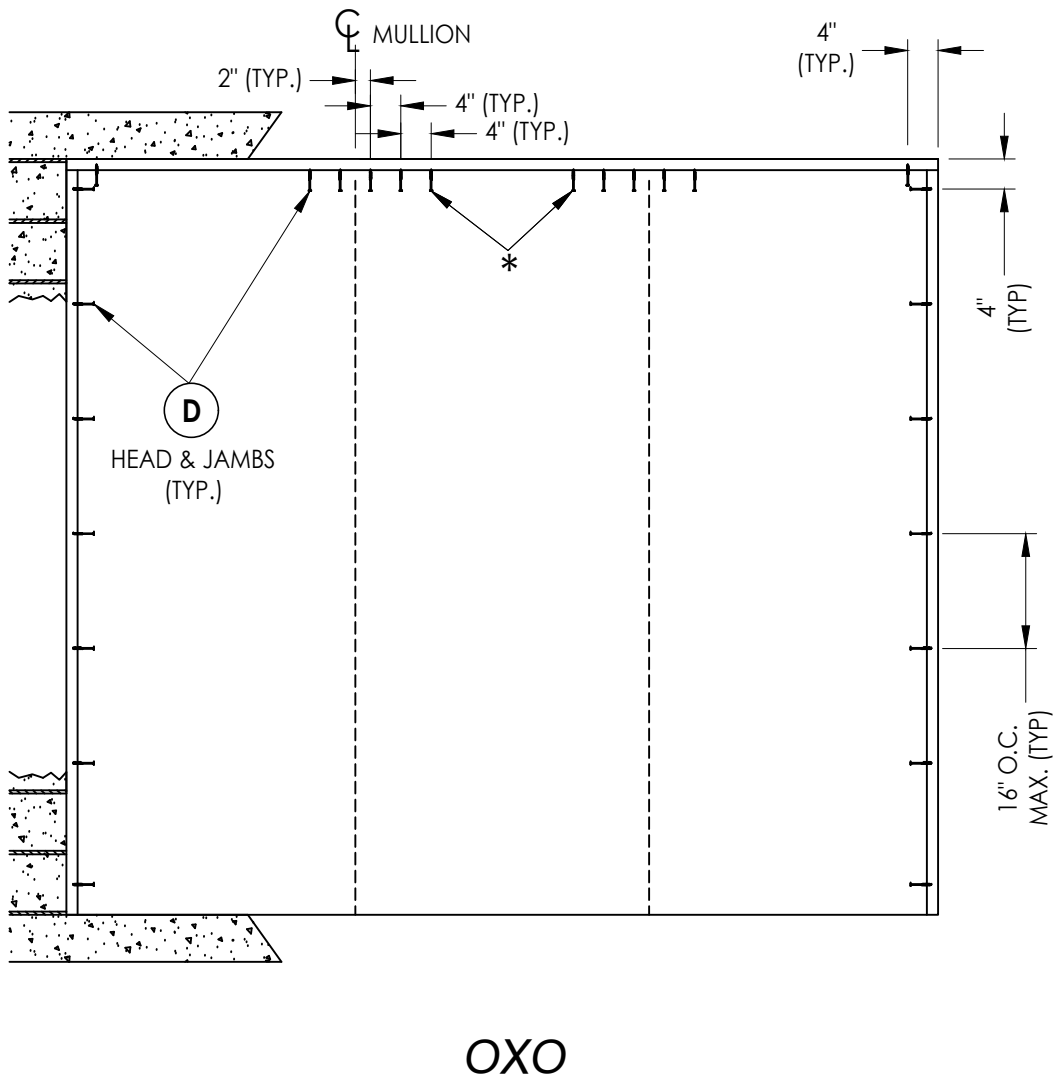
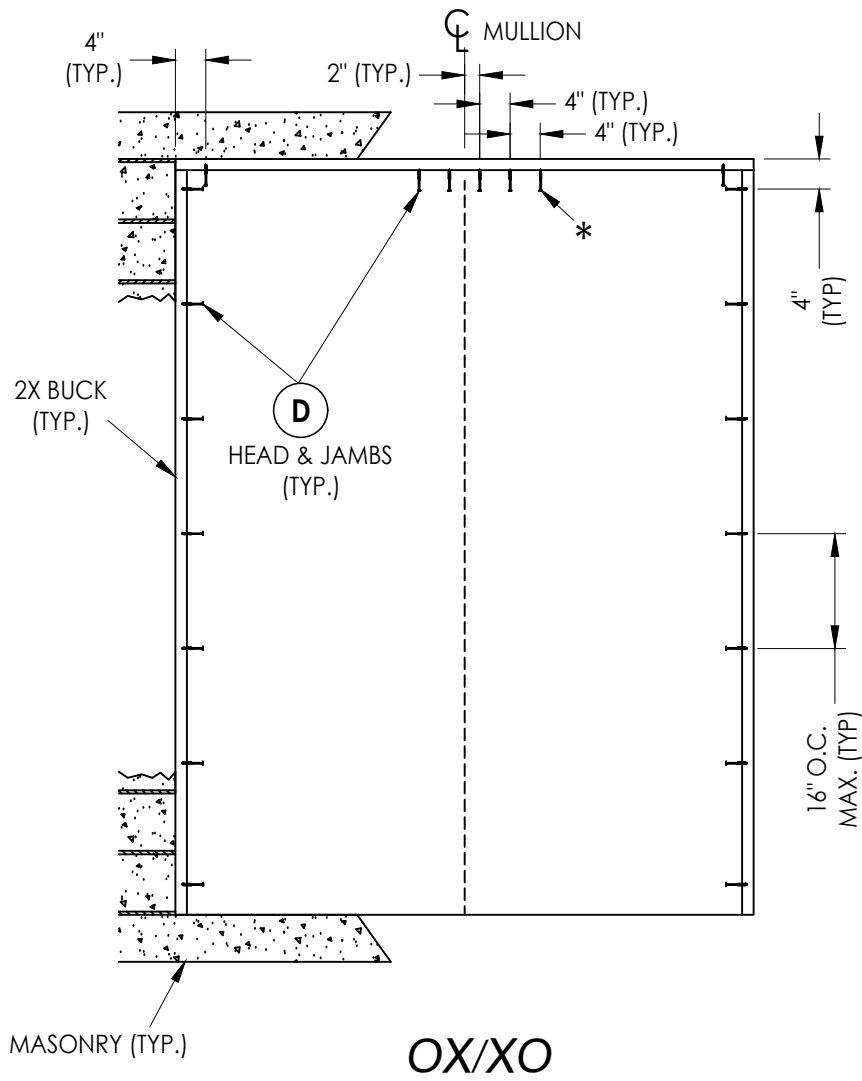
FL-14969.4

SHEET 5 OF 11

Z:\2023 FBC Drawings\Worldwide Door Components\FL-14969 R12\FL-14969.4.dwg



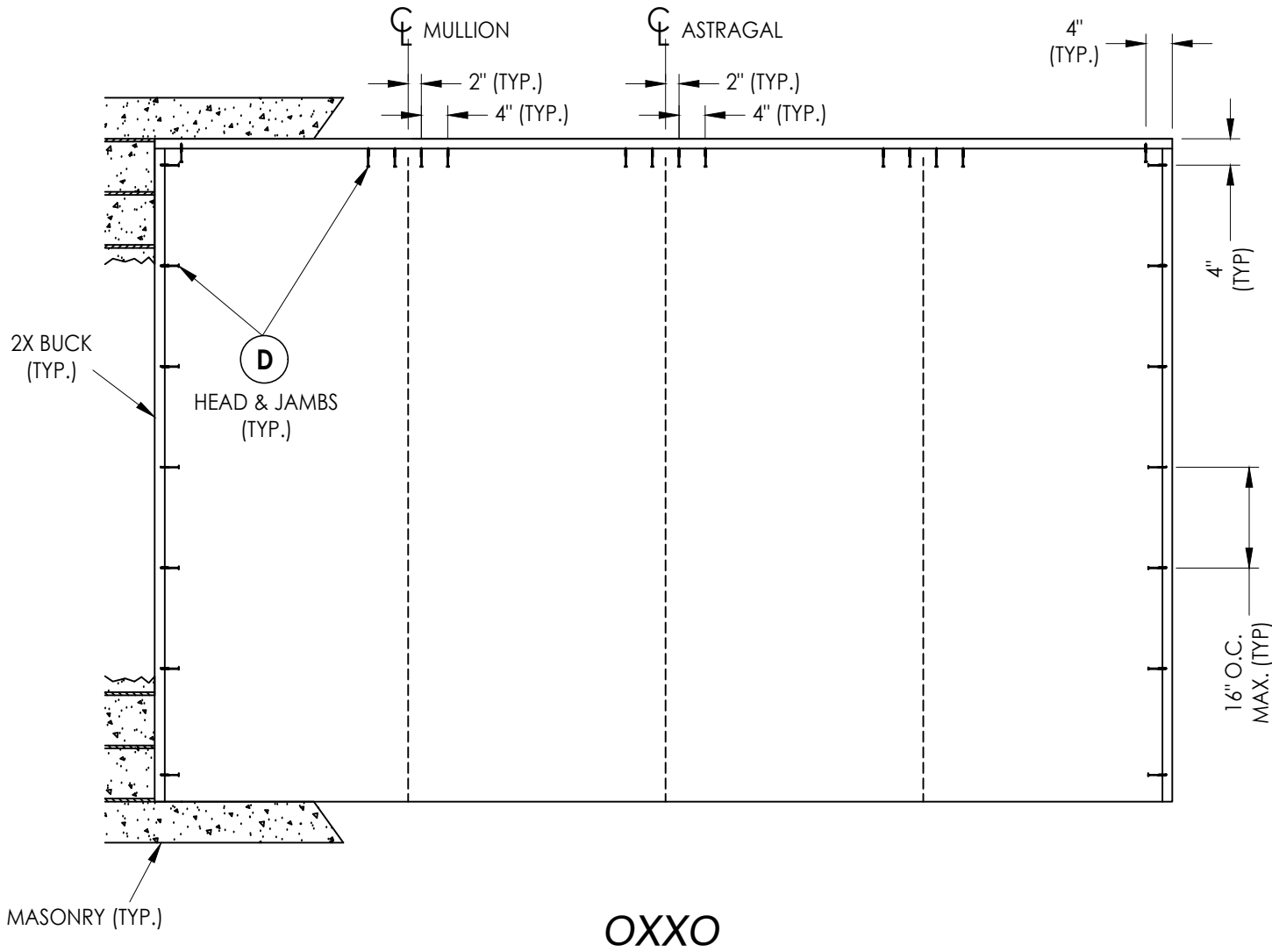
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: WORLDWIDE DOOR COMPONENTS		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)	
5	8/08/23	UPDATE TO 8TH ED. (2023) FBC	LFS
4	7/01/20	REV. COMP. BLDERS ED. FRAME & LFS	
3	7/24/19	UPDATE TO 7TH ED. (2020) FBC	LFS
NO.	DATE	ADD COMP. BUILDERS ED. FRAME	BY
REVISIONS			
DATE: 5/08/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-14969.4			
SHEET 6 OF 11			



* ADDITIONAL ANCHOR(S) SHOWN ARE REQUIRED FOR DESIGN PRESSURE > 55 PSF ONLY.

2X BUCK ANCHORING

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		
PART OR ASSEMBLY:			2X BUCK ANCHORING (O/X, X/O, OXO)		
REVISIONS					
DATE: 5/08/17					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-14969.4					
SHEET 7 OF 11					



2X BUCK ANCHORING

OX XO

DATE:	5/08/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-14969.4
SHEET	8 OF 11

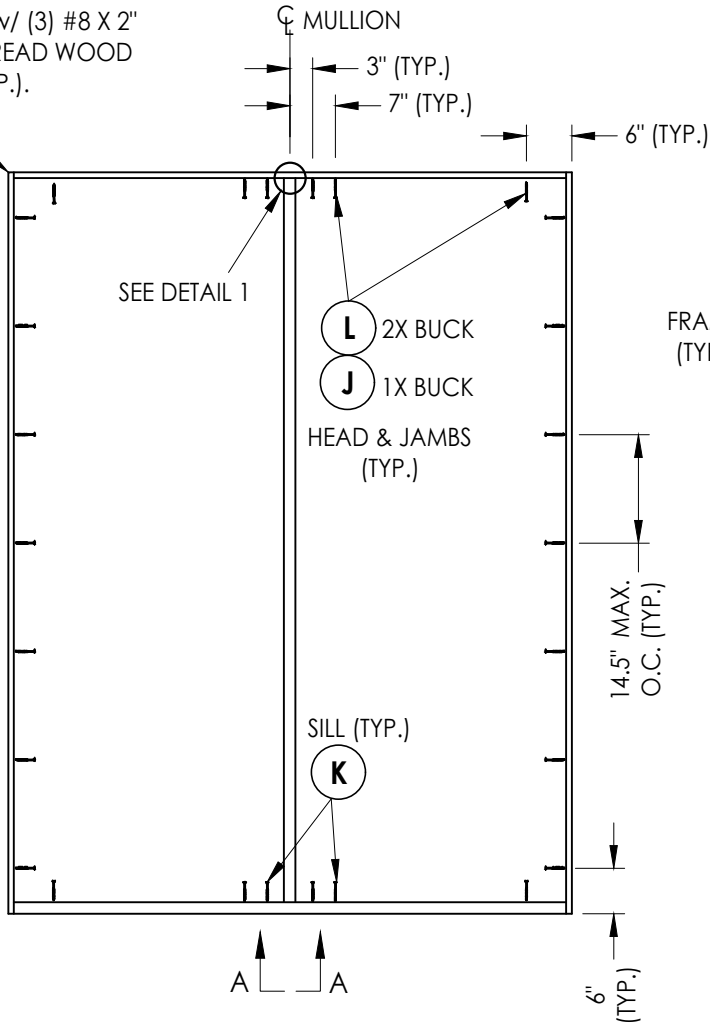
NO.	DATE	REVISIONS
5	8/08/23	UPDATE TO 8TH ED. (2023) FBC
4	7/01/20	REV. COMP. BLDERS ED. FRAME & LFS
3	7/24/19	UPDATE TO 7TH ED. (2020) FBC
		ADD COMP. BUILDERS ED. FRAME
		BY

PRODUCT:	WORLDWIDE DOOR COMPONENTS
PART OR ASSEMBLY:	2X BUCK ANCHORING (OX XO)

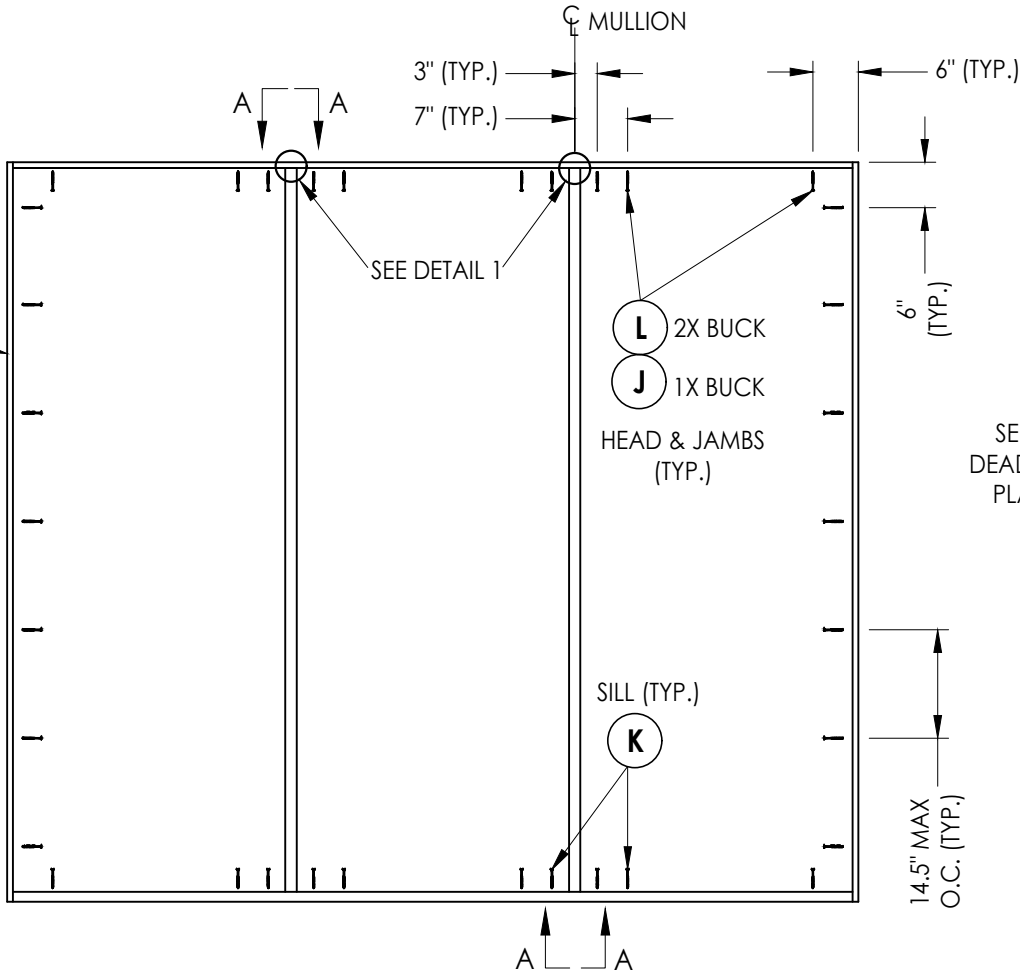
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

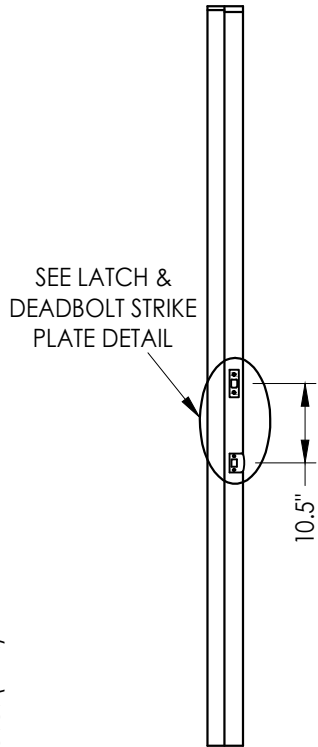
NOTE: FRAME CORNERS
ATTACHED w/ (3) #8 X 2"
PH DEEP THREAD WOOD
SCREWS (TYP.).



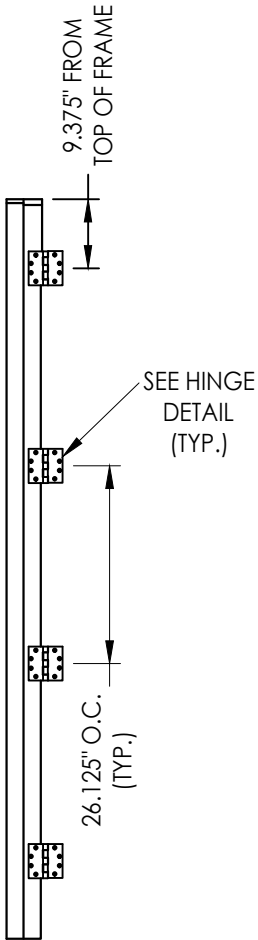
OX/XO



OXO



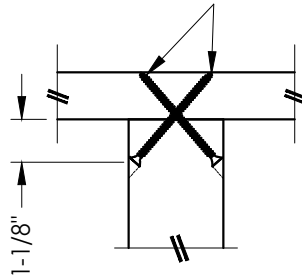
STRIKE JAMB/MULLION



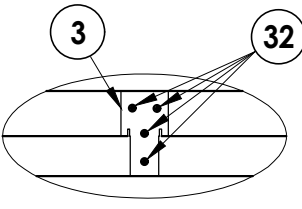
HINGE JAMB/MULLION

FRAME ANCHORING

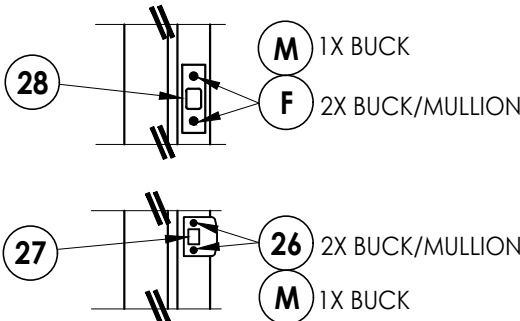
(2) #10 X 3" PFH SMS TOE-NAILED @
45° THRU MULLION INTO FRAME



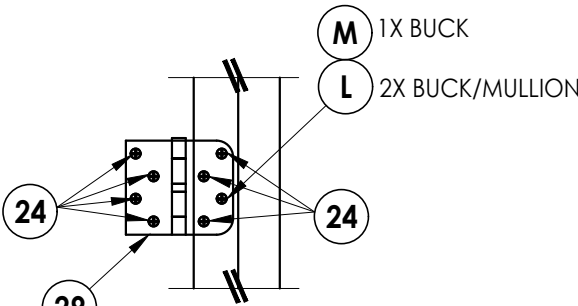
DETAIL 1
(TYP. @ HEAD)



VIEW A-A
(TYP. @ HEAD & SILL)



LATCH & DEADBOLT STRIKE PLATE DETAIL



HINGE DETAIL

NOTE:
SEE SEPARATE SIDE-HINGED DOOR & SIDELITE
FLORIDA PRODUCT APPROVAL FOR DOOR & SIDELITE
CONSTRUCTION DETAILS NOT SHOWN, INCLUDING
LOCK HARDWARE, ASTRAGAL, HINGE & THRESHOLD
CONNECTIONS.

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: **WORLDWIDE DOOR COMPONENTS**
PART OR ASSEMBLY:
FRAME ANCHORING (O/X, X/O, OXO) & HARDWARE DETAILS

NO.	DATE	REVISIONS
5	8/08/23	UPDATE TO 8TH ED. (2023) FBC LFS
4	7/01/20	REV. COMP. BLDERS ED. FRAME & LFS
3	7/24/19	ADD COMP. BUILDERS ED. FRAME LFS
NO.	DATE	BY

DATE: 5/08/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

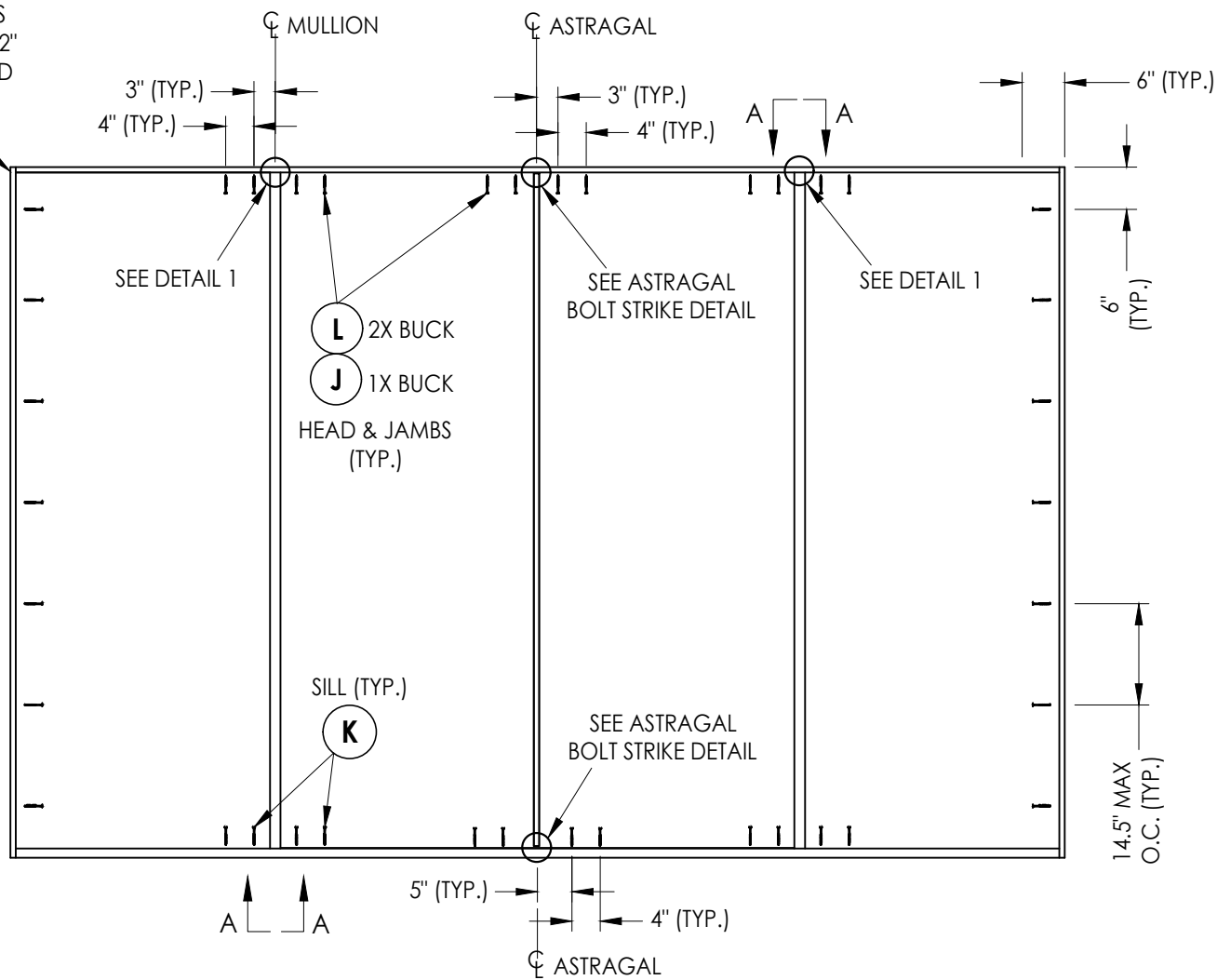
FL-14969.4

SHEET 9 OF 11

Z:\2023 FBC Drawings\Worldwide Door Components\FL-14969 R12\FL-14969.4.dwg

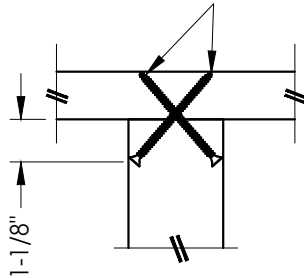
NOTE:
SEE SEPARATE SIDE-HINGED DOOR & SIDELITE
FLORIDA PRODUCT APPROVAL FOR DOOR & SIDELITE
CONSTRUCTION DETAILS NOT SHOWN, INCLUDING
LOCK HARDWARE, ASTRAGAL, HINGE & THRESHOLD
CONNECTIONS.

NOTE: FRAME CORNERS
ATTACHED w/ (3) #8 X 2"
PH DEEP THREAD WOOD
SCREWS (TYP.).

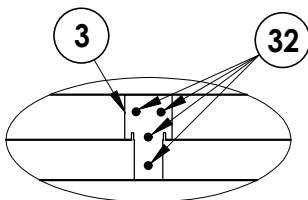


OXXO FRAME ANCHORING

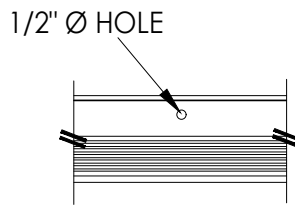
(2) #10 X 3" PFH SMS TOE-NAILED @
45° THRU MULLION INTO FRAME



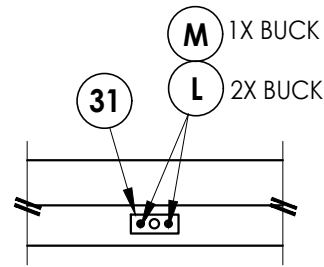
DETAIL 1
(TYP. @ HEAD)



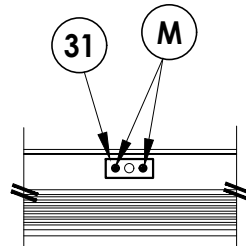
VIEW A-A
(TYP. @ HEAD & SILL)



ASTRAGAL BOLT STRIKE DETAIL
@ Sill (Outswing)

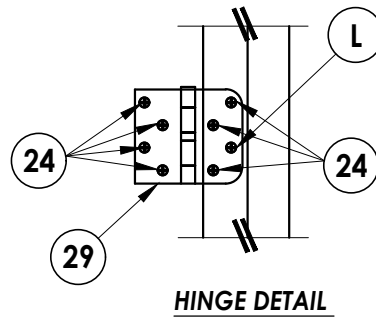
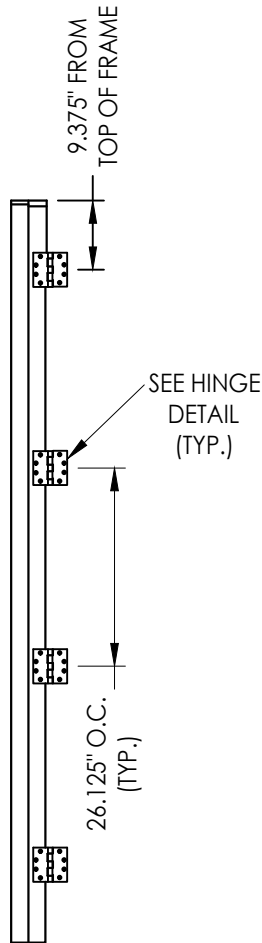


ASTRAGAL BOLT STRIKE DETAIL
@ Head



ASTRAGAL BOLT STRIKE DETAIL
@ Sill (Inswing)

HINGE MULLION



HINGE DETAIL

NO.	DATE	REVISIONS
5	8/08/23	UPDATE TO 8TH ED. (2023) FBC
4	7/01/20	REV. COMP. BLDERS ED. FRAME & LFS
3	7/24/19	ADD COMP. BUILDERS ED. FRAME

DATE:	5/08/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-14969.4
SHEET	10 OF 11

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:
WORLDWIDE DOOR
COMPONENTS

PART OR ASSEMBLY:
FRAME ANCHORING (OXXO)
& HARDWARE DETAILS

Z:\2023 FBC Drawings\Worldwide Door Components\FL-14969 R12\FL-14969.4.dwg

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	#12 X 2-1/2" PFH SMS	STEEL
G	#10 X 2-1/2" PFH SMS	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
M	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
N	3/16" X 2-3/4" PFH TW CONCRETE SCREW	STEEL
1	HEAD & SIDE JAMB (4Ever Frame: 4-9/16" or 6-9/16")	COMPOSITE
2	SIDE JAMB (4Ever Frame - Composite Builders Edition: 4-9/16" or 6-9/16")	COMPOSITE
3	MULLION w/ ALUMINUM REINFORCEMENT (4Ever Frame)	ALUM/COMP
7	WEATHERSTRIP (WORLDWIDE)	FOAM
12	SIDELITE ADAPTER (INSWING)	PVC
13	INSWING THRESHOLD	ALUM/COMP
14	OUTSWING THRESHOLD	ALUM/COMP
22	#10 X 2" PFH WOOD SCREW	STEEL
24	#9 X 3/4" PFH SMS	STEEL
26	#8 X 2-1/2" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
31	ASTRAGAL BOLT STRIKE PLATE	STEEL
32	#10 X 3" PFH WOOD SCREW	STEEL
40	DOOR PANEL (BY OTHERS - SEE GENERAL NOTE 5, SHEET 1)	-
50	SIDELITE PANEL (BY OTHERS - SEE GENERAL NOTE 5, SHEET 1)	-

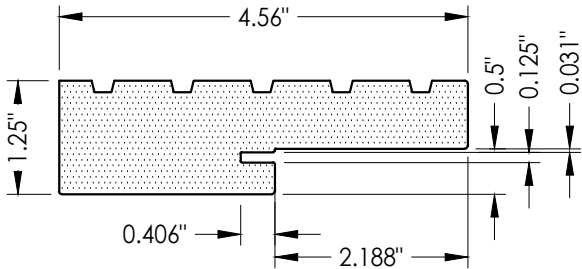
CONCRETE ANCHOR NOTES:

- 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:

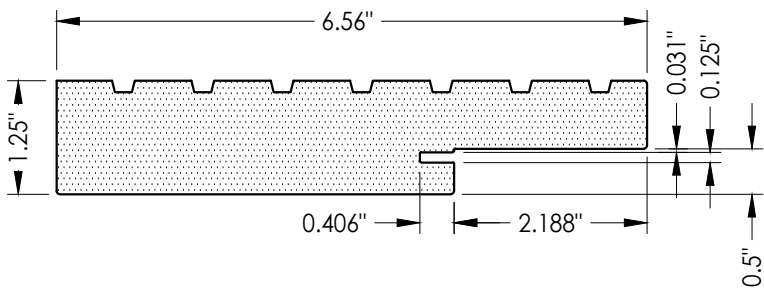
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

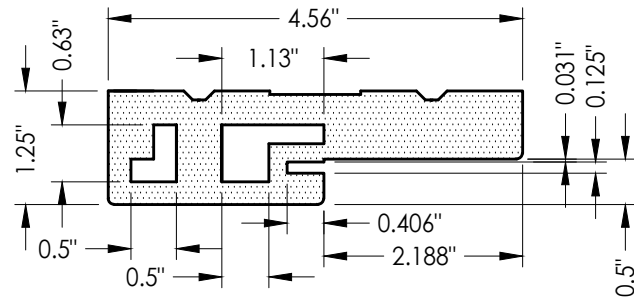
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



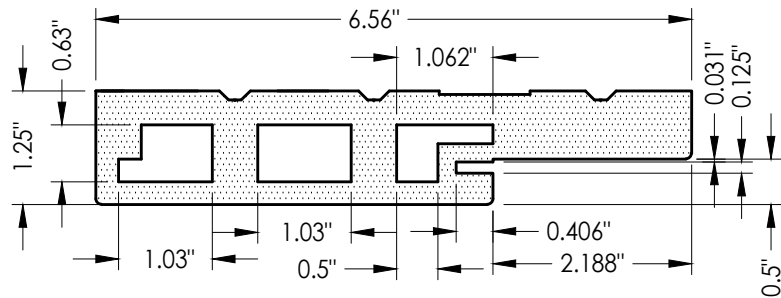
1 HEAD & SIDE JAMB
4Ever Frame (4-9/16")



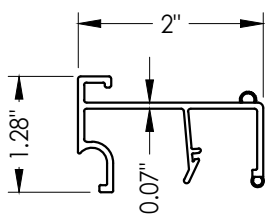
1 HEAD & SIDE JAMB
4Ever Frame (6-9/16")



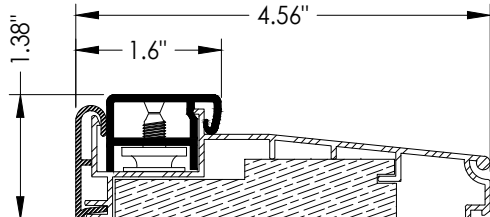
2 SIDE JAMB
4Ever Frame (4-9/16")
Composite Builders Edition



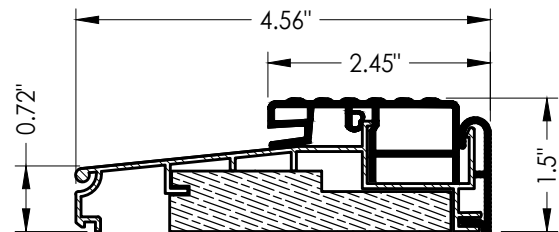
2 SIDE JAMB
4Ever Frame (6-9/16")
Composite Builders Edition



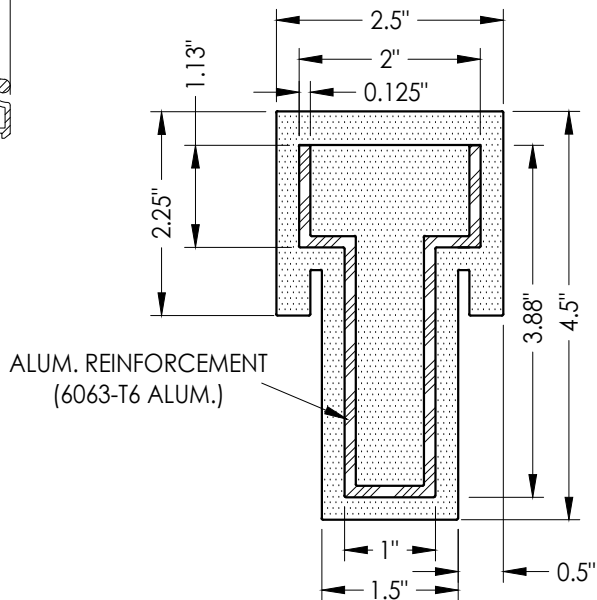
12 INSWING SIDELITE SPACER
WORLDWIDE



13 INSWING THRESHOLD
Worldwide



14 OUTSWING THRESHOLD
WORLDWIDE



3 MULLION w/ ALUM REINFORCEMENT
4Ever Frame

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: WORLDWIDE DOOR COMPONENTS

PART OR ASSEMBLY:
BILL OF MATERIALS & COMPONENTS

			LFS	LFS	LFS	BY
		8/08/23	UPDATE TO 8TH ED. (2023) FBC			
5	4	7/01/20	REV. COMP. BLDERS ED. FRAME &			
			UPDATE TO 7TH ED. (2020) FBC			
	3	7/24/19	ADD COMP. BUILDERS ED. FRAME			
		NO. DATE				
						REVISIONS

DATE: 5/08/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-14969.4

SHEET 11 OF 11