

MILLWORK ARTISANS

145 KING STREET
CHARLESTON, SC 29401

"IMPACT" WOOD ENTRY DOOR
INSWING / OUTSWING

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.

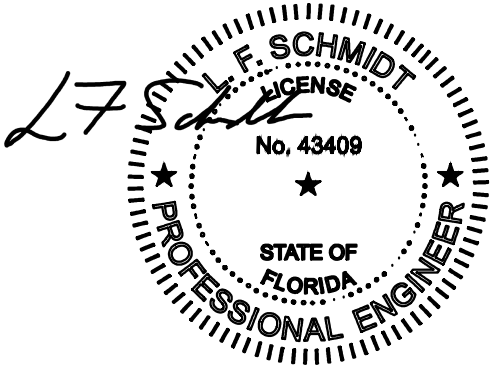
Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3.

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 E1996 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.

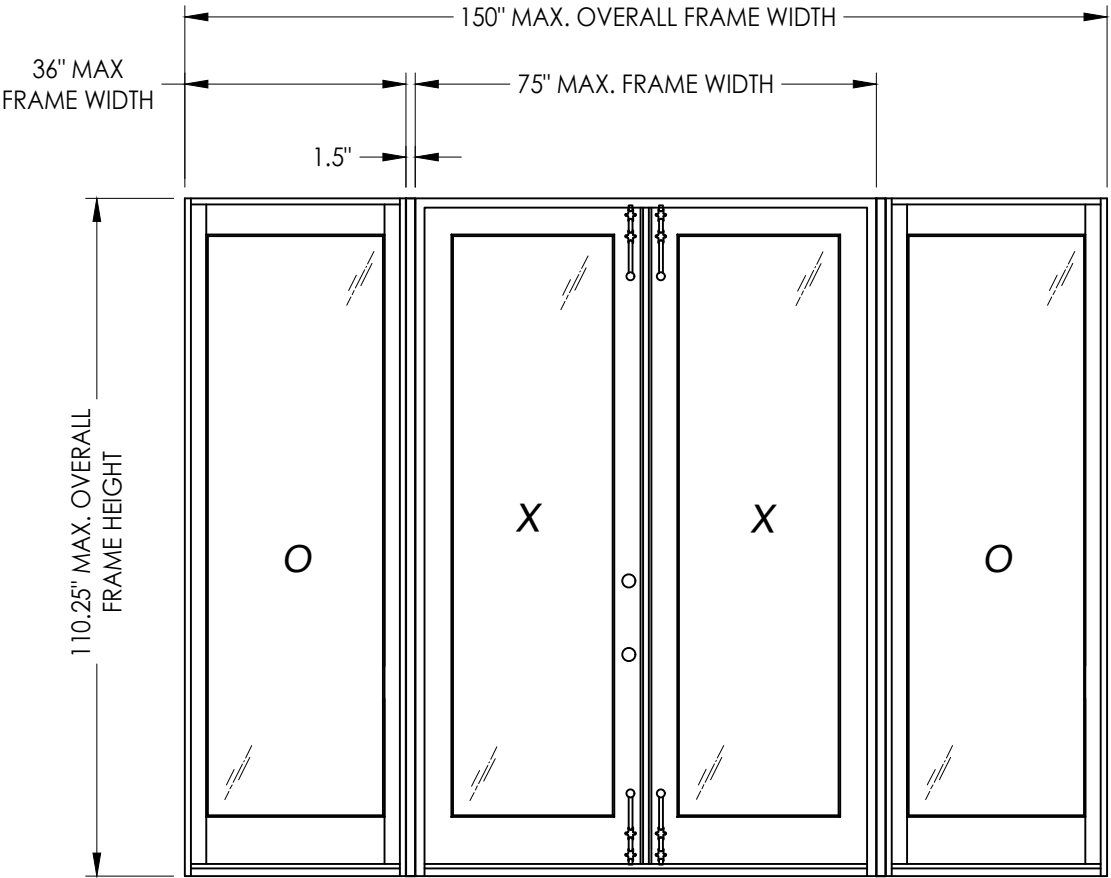
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details
3	Sidelite panel details
4	Elevations
5	Horizontal cross sections
6	Vertical cross sections
7	Mullion anchoring details
8	Buck anchoring
9	Frame anchoring
10	Surface bolt details
11	Bill of materials and components



Digitally signed by
Lyndon F Schmidt
Date: 2023.09.14
14:11:26 -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



FULL GLAZED PANELS SHOWN

MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)		LOCK HARDWARE * (Active Door)
	POSITIVE	NEGATIVE	
150.0" x 110.25"	+55.0	-55.0	Kwikset Knob & Deadbolt or Surface Bolts

* NOTE: Surface bolts are always required on inactive door.

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

PRODUCT:

MILLWORK ARTISANS
WOOD DOOR

PART OR ASSEMBLY:

TYPICAL ELEVATIONS, DESIGN
PRESSURES & GENERAL NOTES

9/14/23

UPDATE TO 8TH ED. (2023)

FBC

LFS

9/29/20

UPDATE TO 7TH ED. (2020)

FBC

LFS

10/03/17

UPDATE TO 6TH ED. (2017)

FBC

JK

04/14/15

UPDATE TO 5TH ED. (2014)

FBC

JK

NO.

DATE

BY

REVISIONS

DATE: 06/26/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-15751.4

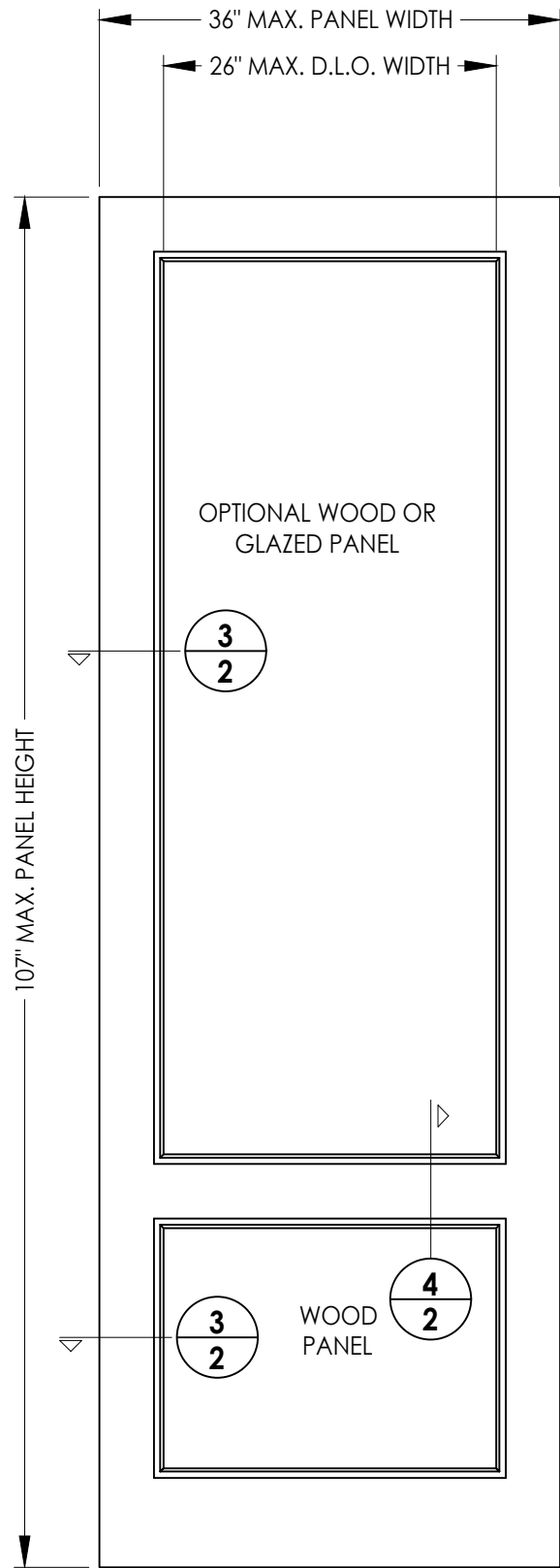
SHEET 1 OF 11

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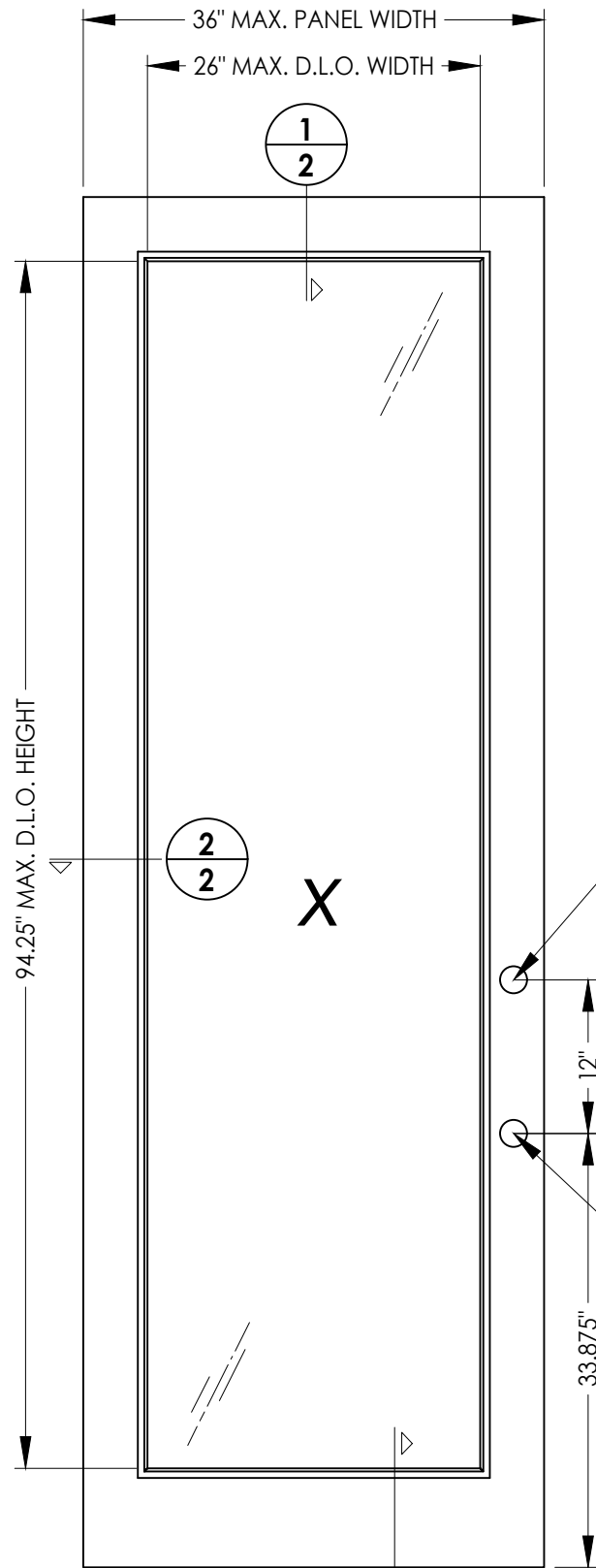
RW

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

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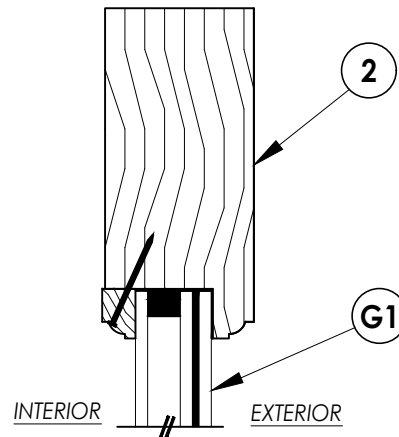


40 WOOD DOOR
Wood panels

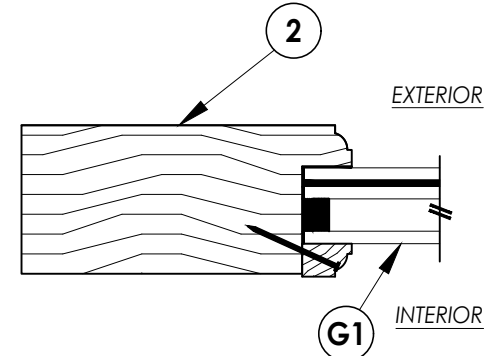


40 WOOD DOOR
Full glazed

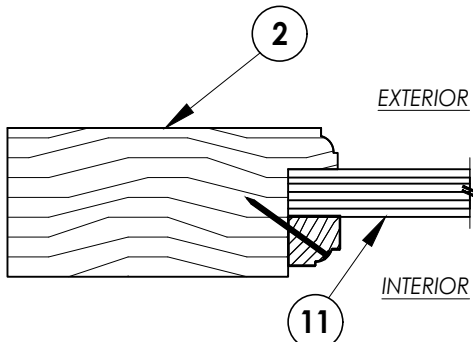
1/2 VERTICAL CROSS SECTION



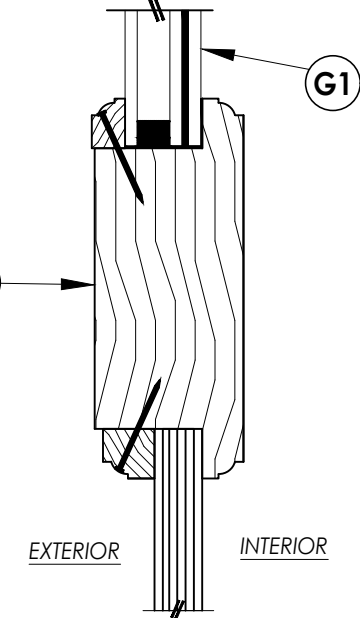
2/2 HORIZONTAL CROSS SECTION



3/2 HORIZONTAL CROSS SECTION



5/2 VERTICAL CROSS SECTION

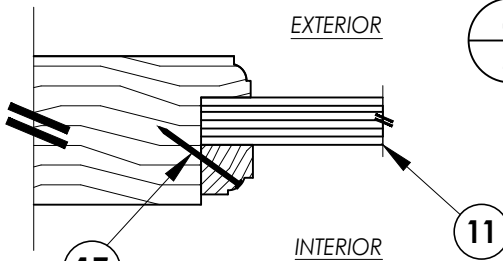


DEADBOLT: KWIKSET
SIGNATURE SERIES (980)

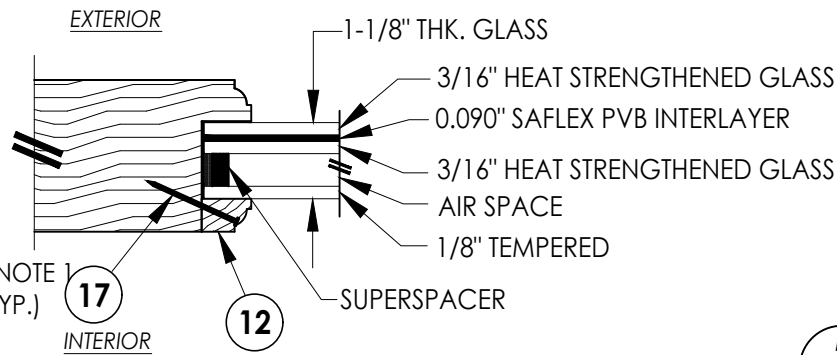
NOTE:
1. Spacing for item #17 is 4" from
corners and 12" o.c. thereafter.

KNOB: KWIKSET
SIGNATURE SERIES

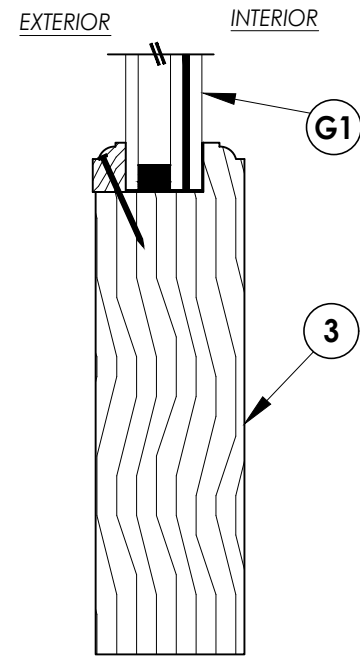
17/2 PANEL INFIL DETAIL



5/2 GLAZING DETAIL



5/2 VERTICAL CROSS SECTION



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PRODUCT: MILLWORK ARTISANS
WOOD DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
4	9/14/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	9/29/20	UPDATE TO 7TH ED. (2020) FBC LFS
2	10/03/17	UPDATE TO 6TH ED. (2017) FBC JK
1	04/14/15	UPDATE TO 5TH ED. (2014) FBC JK

DATE: 06/26/12

SCALE: N.T.S.

DWG. BY: JK

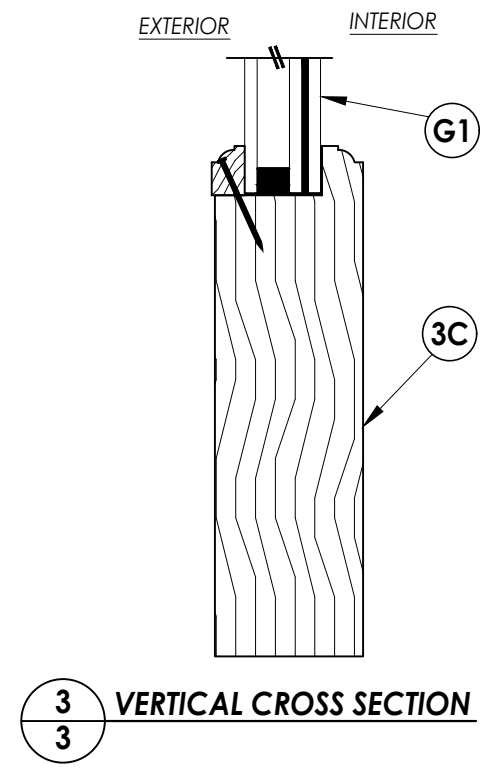
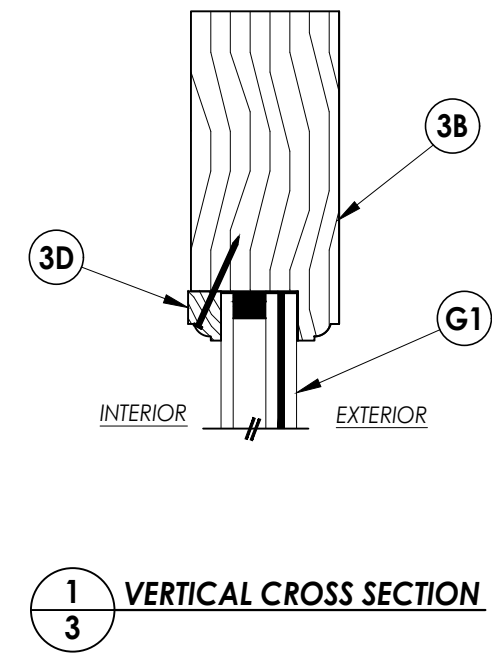
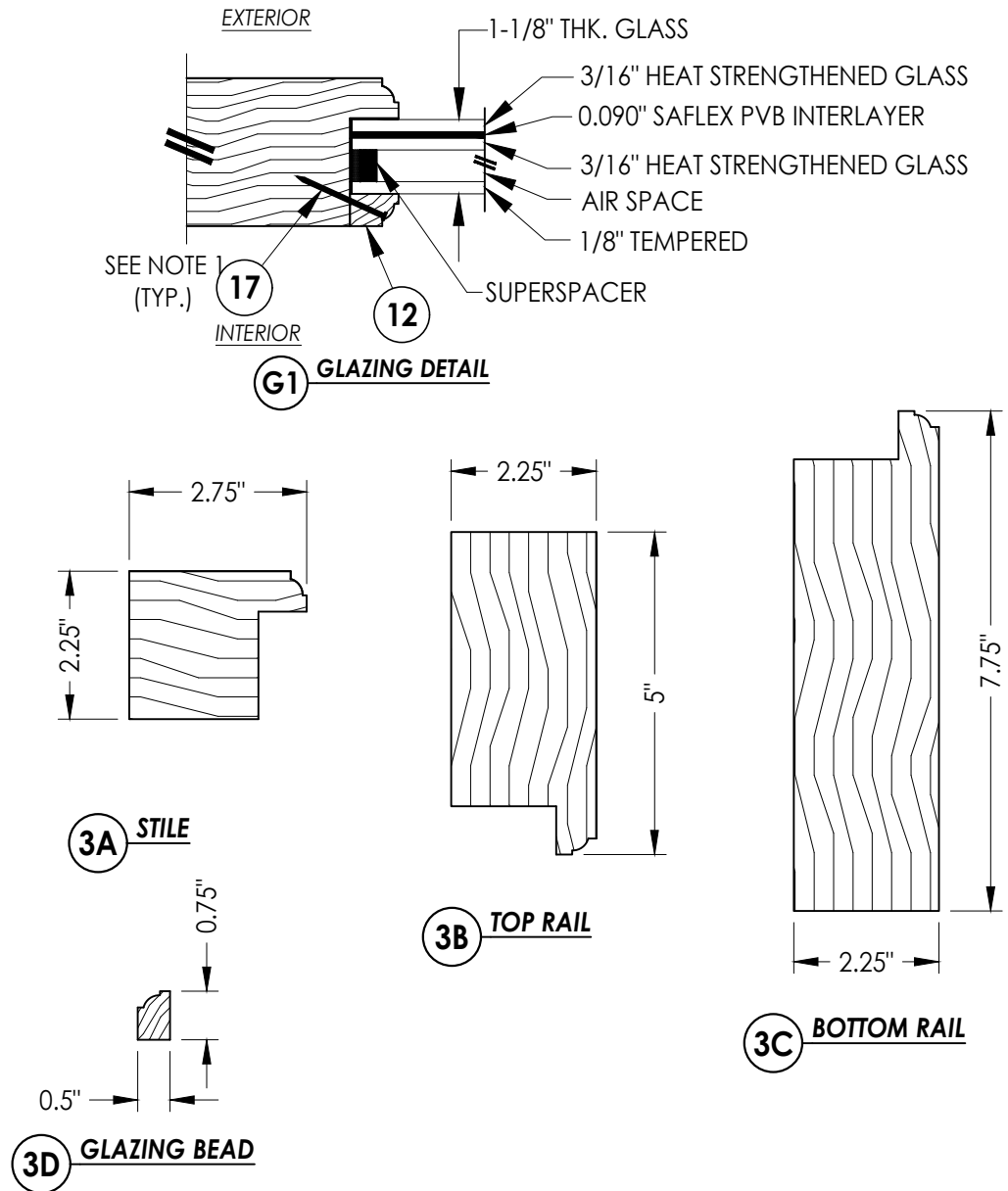
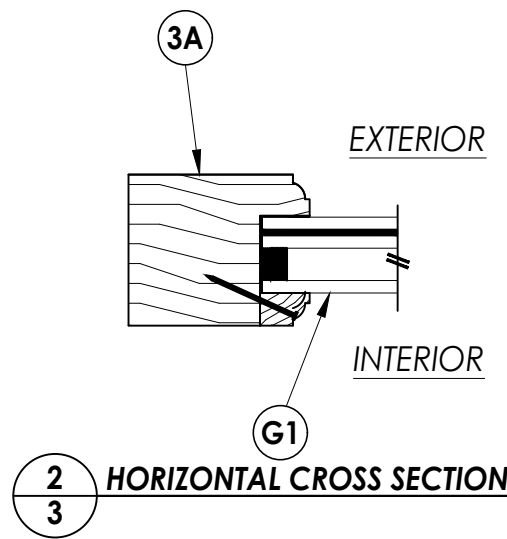
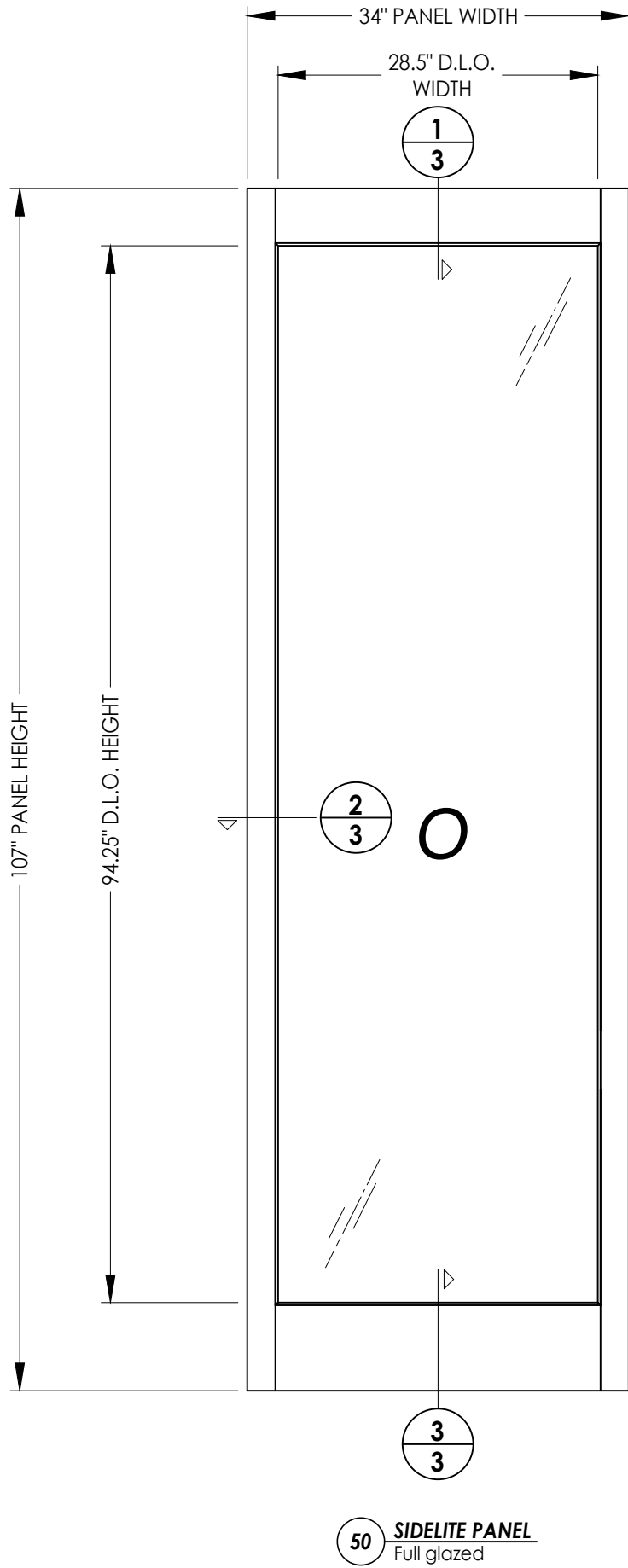
CHK. BY: LFS

DRAWING NO.:

FL-15751.4

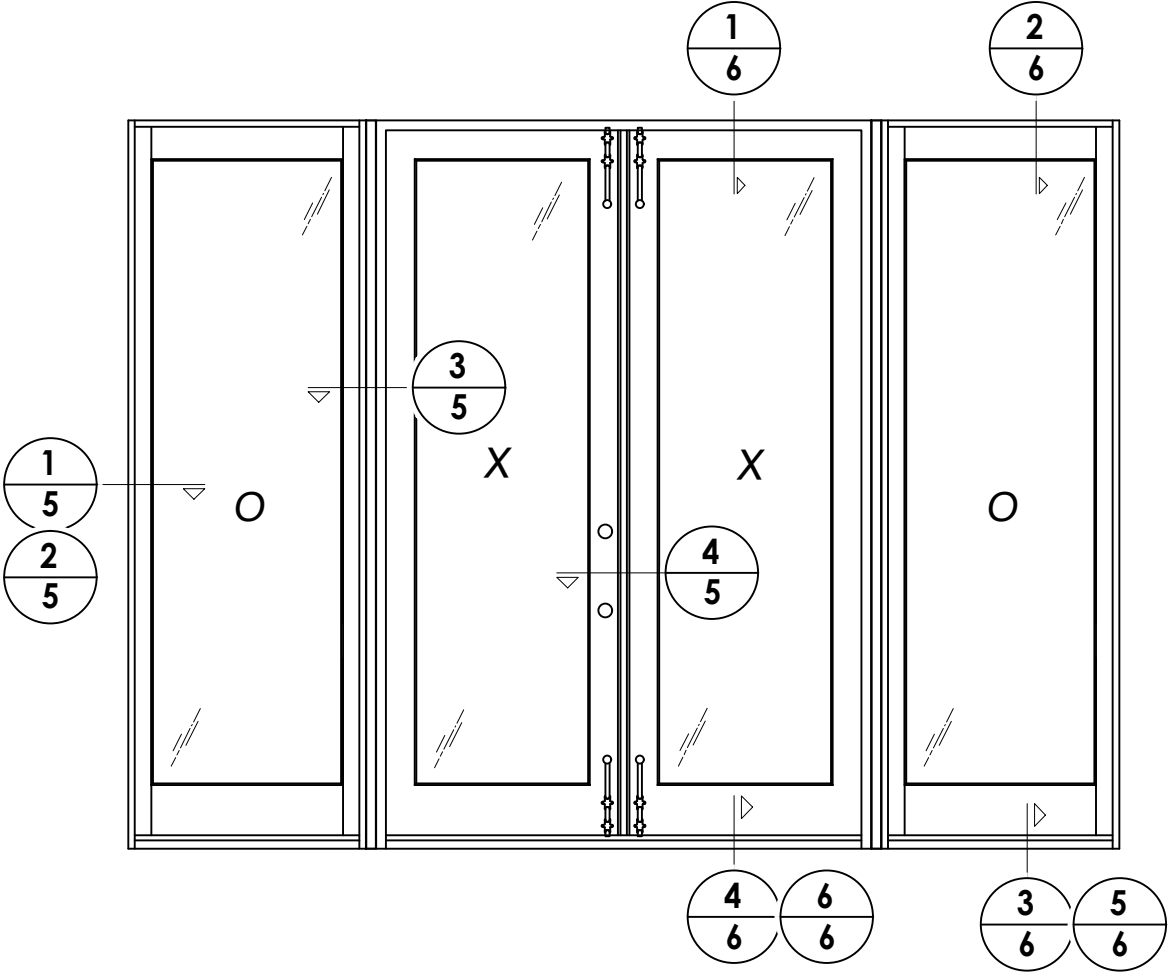
SHEET 2 OF 11

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NOTE:
1. Spacing for item #17 is 4" from corners and 12" o.c. thereafter.

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PRODUCT: MILLWORK ARTISANS WOOD DOOR				PART OR ASSEMBLY: SIDELITE PANEL DETAILS			
4	9/14/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
3	9/29/20	UPDATE TO 7TH ED. (2020)	FBC	LFS			
2	10/03/17	UPDATE TO 6TH ED. (2017)	FBC	JK			
1	04/14/15	UPDATE TO 5TH ED. (2014)	FBC	JK			
NO.	DATE			BY			
				REVISIONS			
DATE: 06/26/12							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-15751.4							
SHEET 3 OF 11							



DATE:	06/26/12
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-15751.4
SHEET	4 OF 11

REVISIONS	
NO.	DATE
4	9/14/23
3	9/29/20
2	10/03/17
1	04/14/15

PRODUCT:	MILLWORK ARTISANS WOOD DOOR
PART OR ASSEMBLY:	ELEVATIONS

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P.E. No. 43409

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FBPE Registry No. 9813

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E

A

C

1

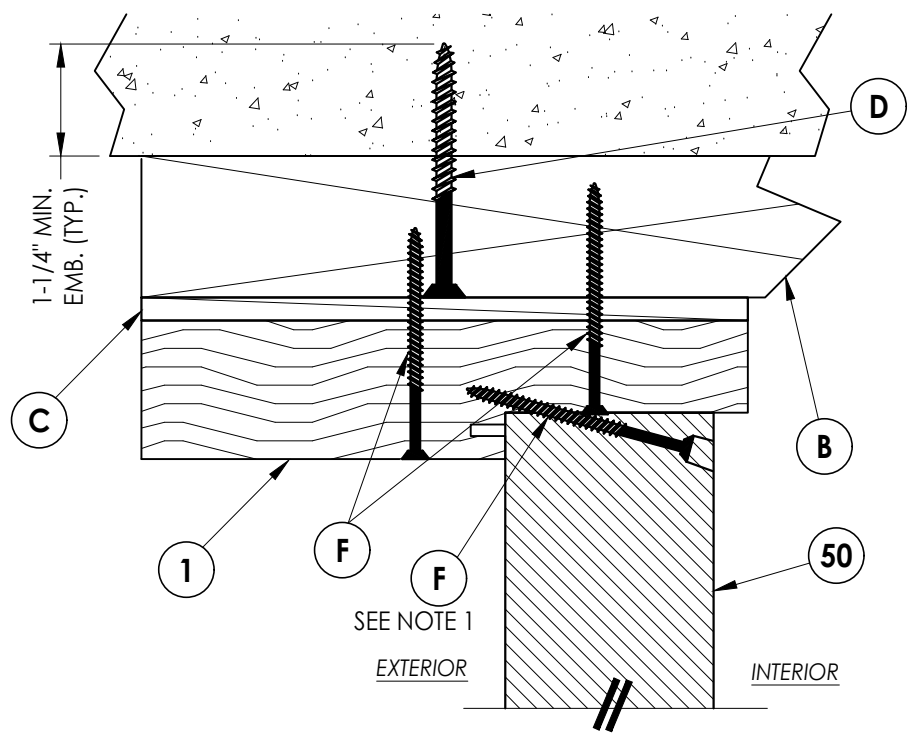
F SEE NOTE 1

J

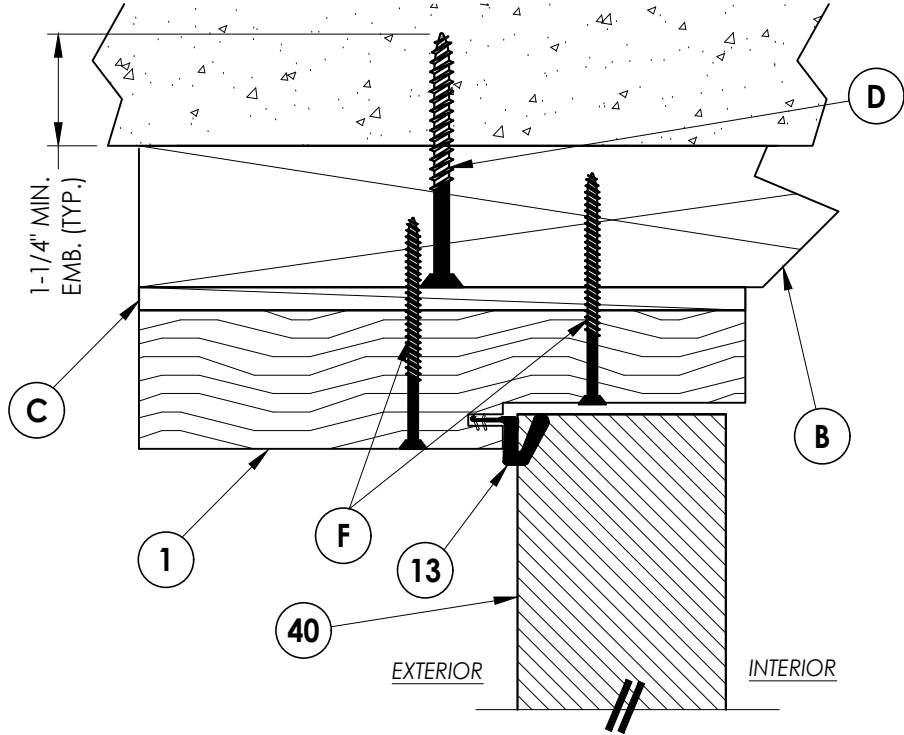
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1-1/4" MIN.
EMB. (TYP.)

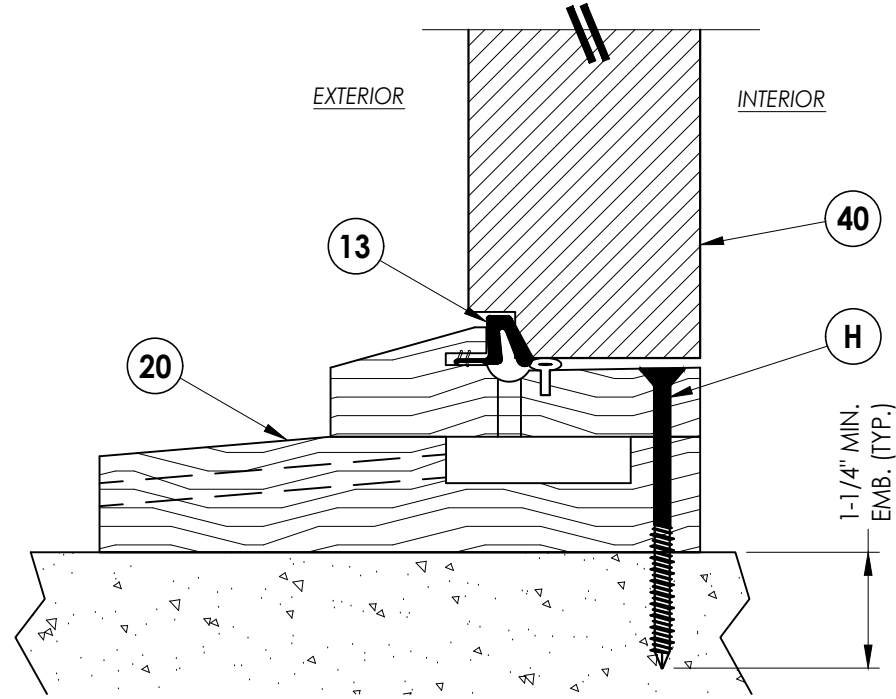
PRODUCT: MILLWORK ARTISANS WOOD DOOR		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS		REVISIONS	
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3	9/29/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
2	10/03/17	UPDATE TO 6TH ED. (2017)	FBC	JK	
1	04/14/15	UPDATE TO 5TH ED. (2014)	FBC	JK	
NO.	DATE				
DATE: 06/26/12					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-15751.4					
SHEET 5 OF 11					



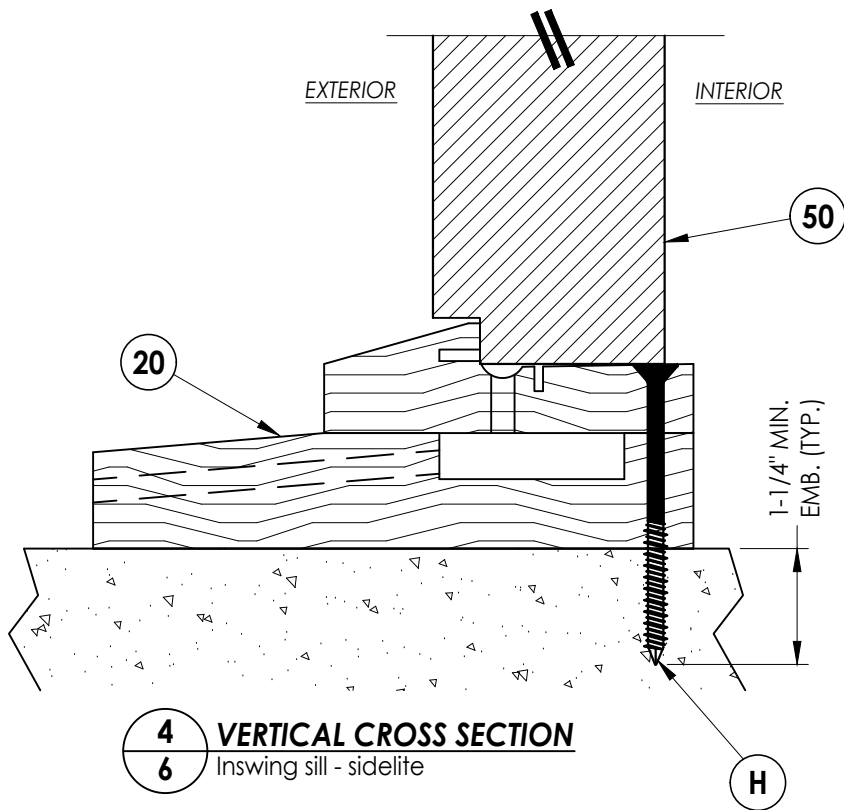
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6 **VERTICAL CROSS SECTION**
Inswing shown - outswing also approved



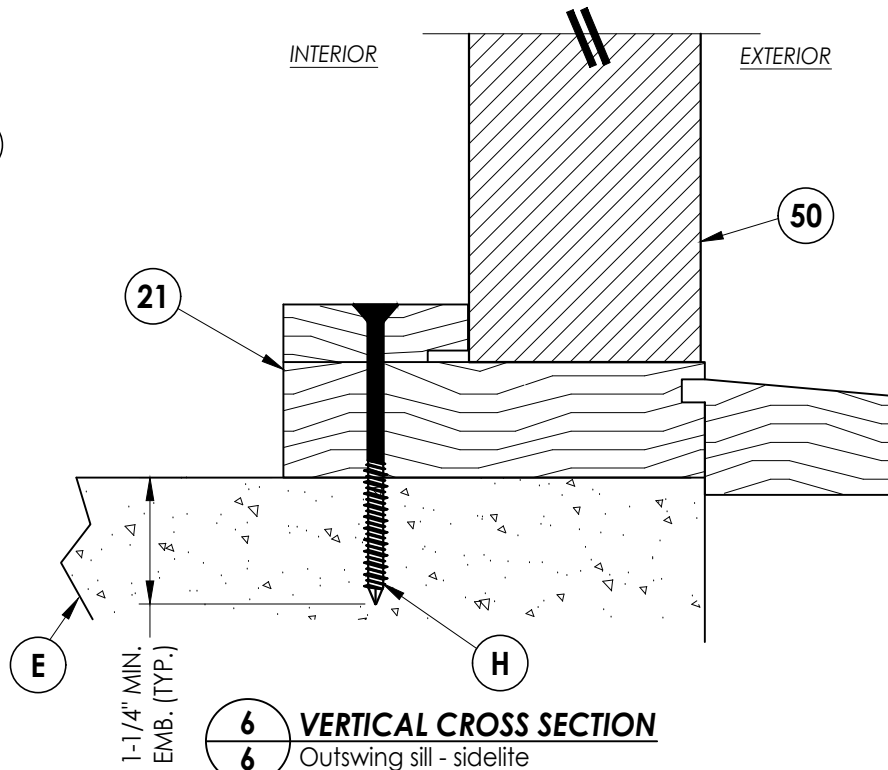
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6 **VERTICAL CROSS SECTION**
Inswing shown - outswing also approved



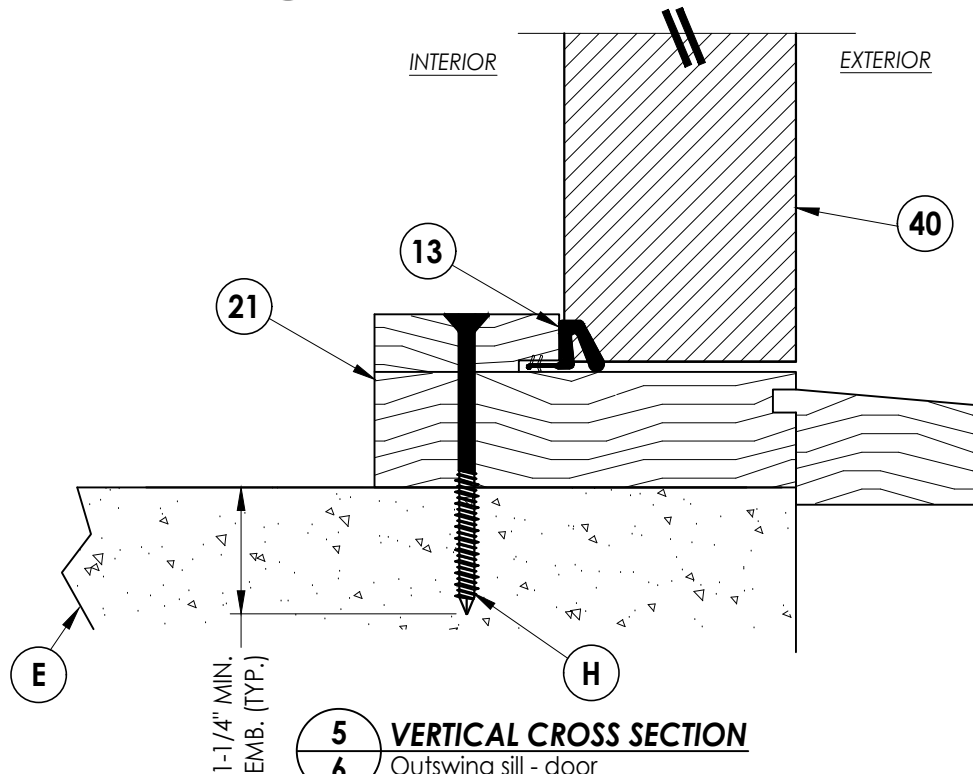
3
6 **VERTICAL CROSS SECTION**
Inswing sill - door



4
6 **VERTICAL CROSS SECTION**
Inswing sill - sidelite



6
6 **VERTICAL CROSS SECTION**
Outswing sill - sidelite



5
6 **VERTICAL CROSS SECTION**
Outswing sill - door

NOTE:
1. Spacing for item F (Sidelite): 6" from corners and 14" o.c. thereafter.
Countersink screw 1/4".

Documents Prepared By:
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PRODUCT:
MILLWORK ARTISANS
WOOD DOOR

PART OR ASSEMBLY:
VERTICAL
CROSS SECTIONS

NO.	DATE	REVISIONS			
		BY	JK	JK	LFS
4	9/14/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	9/29/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
2	10/03/17	UPDATE TO 6TH ED. (2017)	FBC	JK	
1	04/14/15	UPDATE TO 5TH ED. (2014)	FBC	JK	

DATE: 06/26/12

SCALE: N.T.S.

DWG. BY: JK

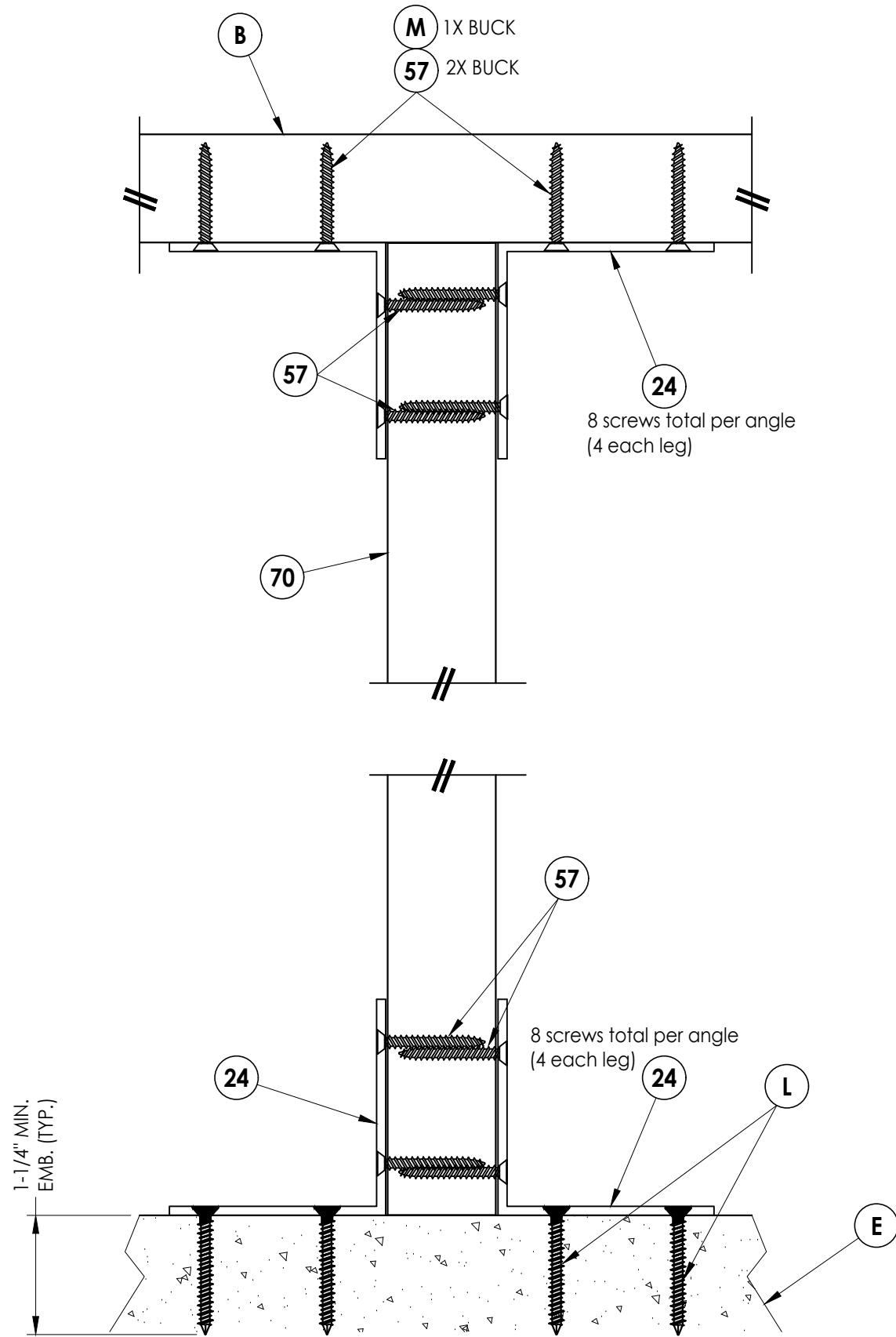
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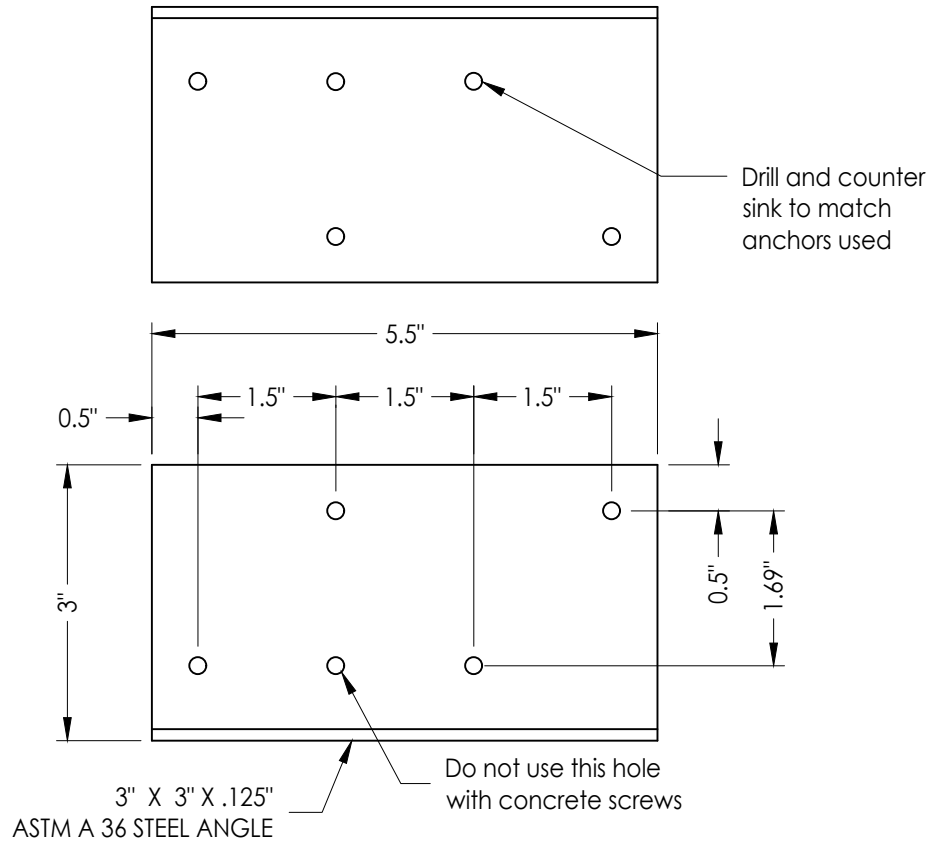
FL-15751.4

SHEET 6 OF 11

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MULLION ANCHORING DETAIL



24 SUPPORT ANGLE

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"

WOOD SCREW INSTALLATION NOTES:

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

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: MILLWORK ARTISANS
WOOD DOOR

PART OR ASSEMBLY:
MULLION ANCHORING DETAILS

NO.	DATE	REVISIONS
4	9/14/23	UPDATE TO 8TH ED. (2023) FBC
3	9/29/20	UPDATE TO 7TH ED. (2020) FBC
2	10/03/17	UPDATE TO 6TH ED. (2017) FBC
1	04/14/15	UPDATE TO 5TH ED. (2014) FBC

DATE: 06/26/12

SCALE: N.T.S.

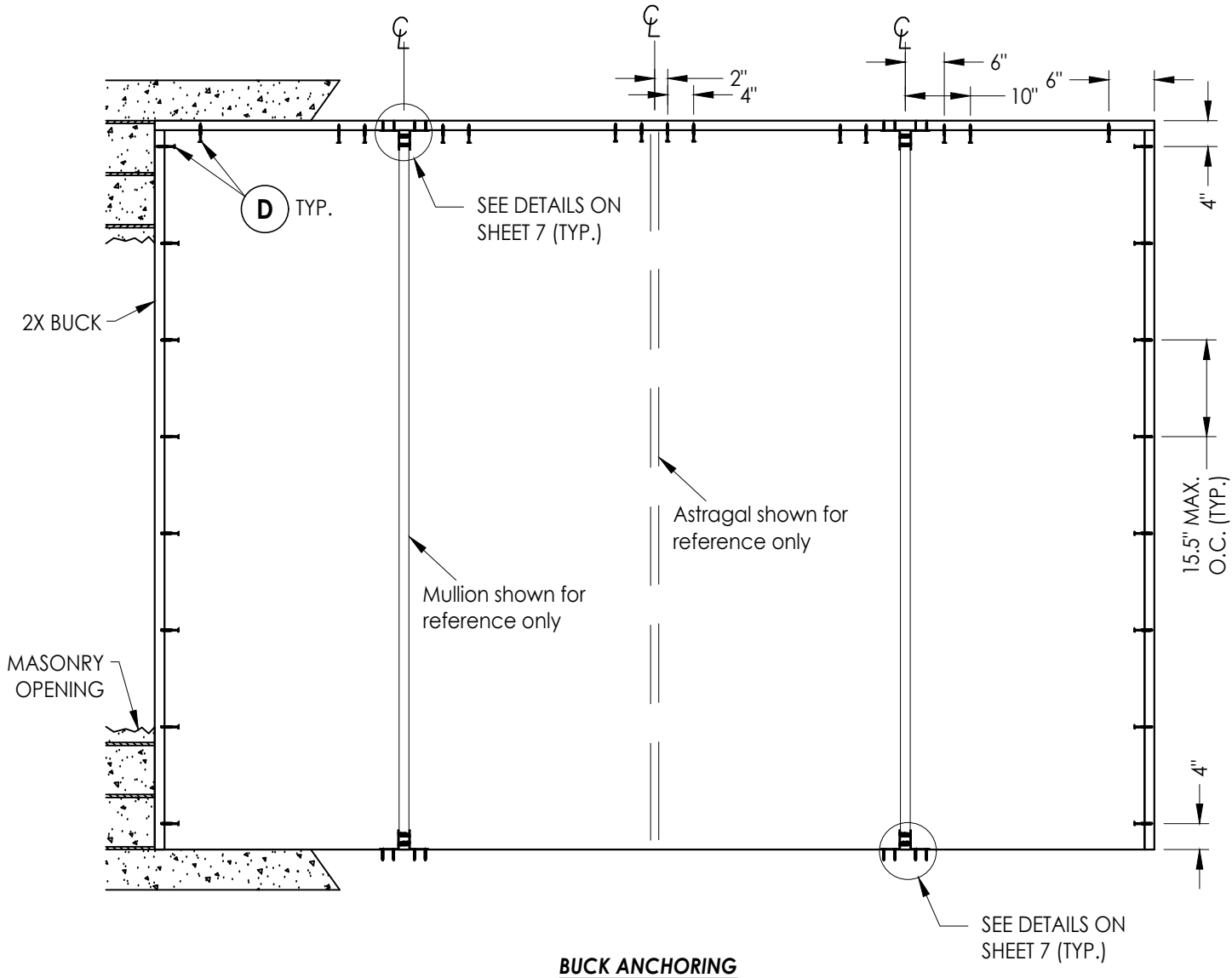
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-15751.4

SHEET 7 OF 11

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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"

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.

		REVISIONS			
		NO.	DATE	BY	
		4	9/14/23	UPDATE TO 8TH ED. (2023)	FBC LFS
		3	9/29/20	UPDATE TO 7TH ED. (2020)	FBC LFS
		2	10/03/17	UPDATE TO 6TH ED. (2017)	FBC JK
		1	04/14/15	UPDATE TO 5TH ED. (2014)	FBC JK

DATE: 06/26/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-15751.4

SHEET 8 OF 11

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

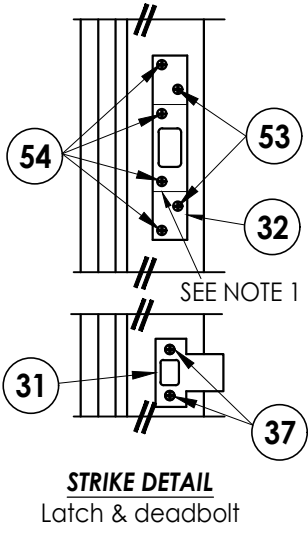
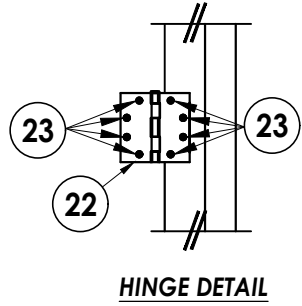
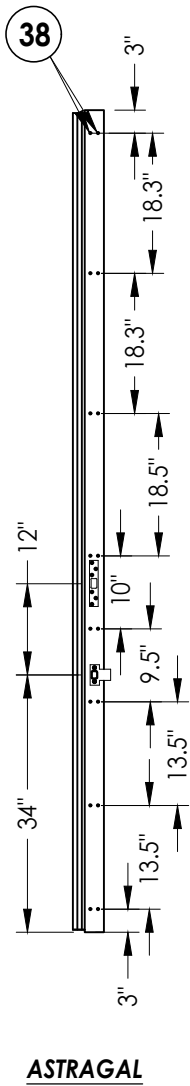
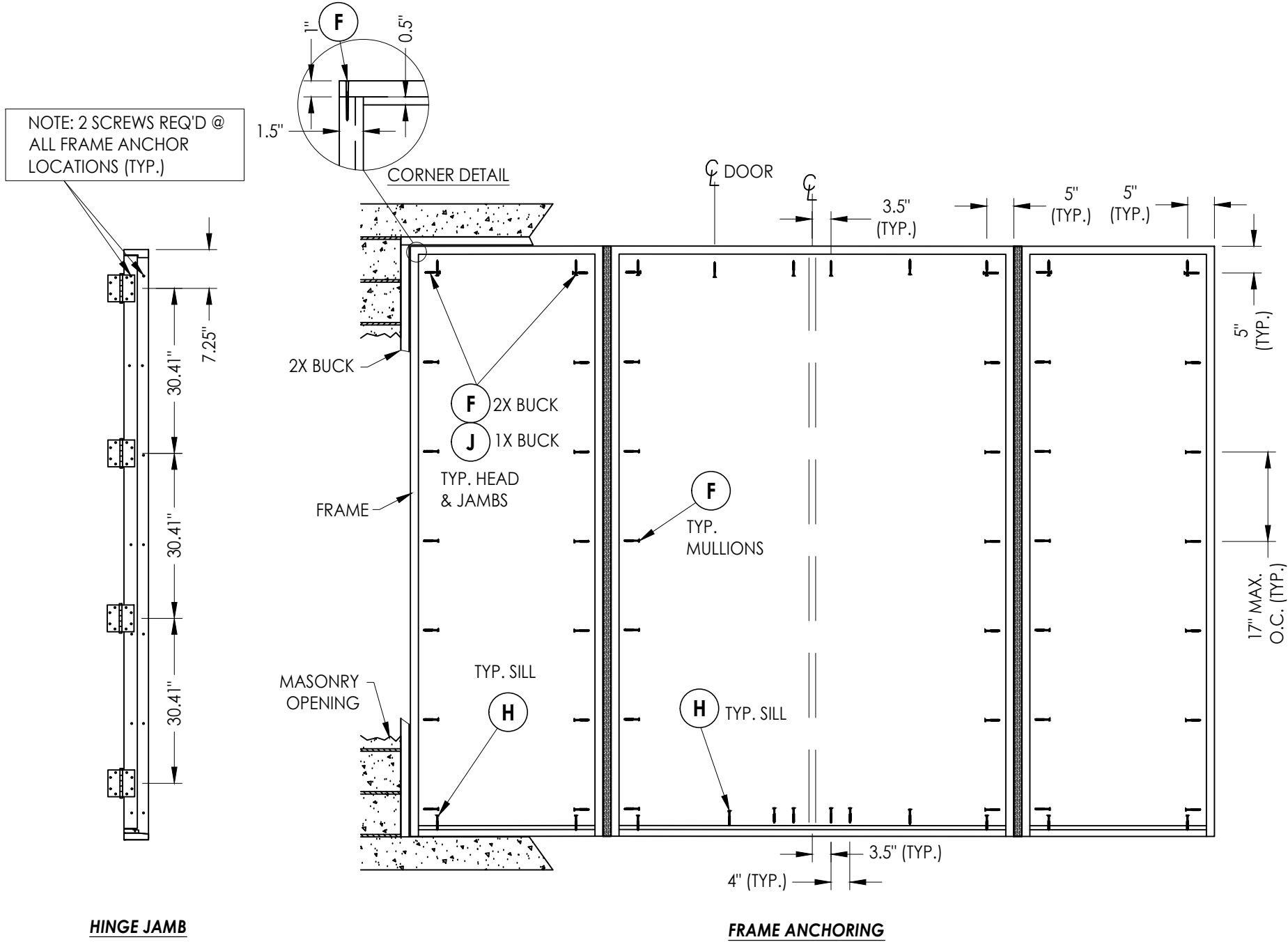
PRODUCT:
MILLWORK ARTISANS
WOOD DOOR

PART OR ASSEMBLY:
BUCK ANCHORING

RW BUILDING CONSULTANTS, INC.

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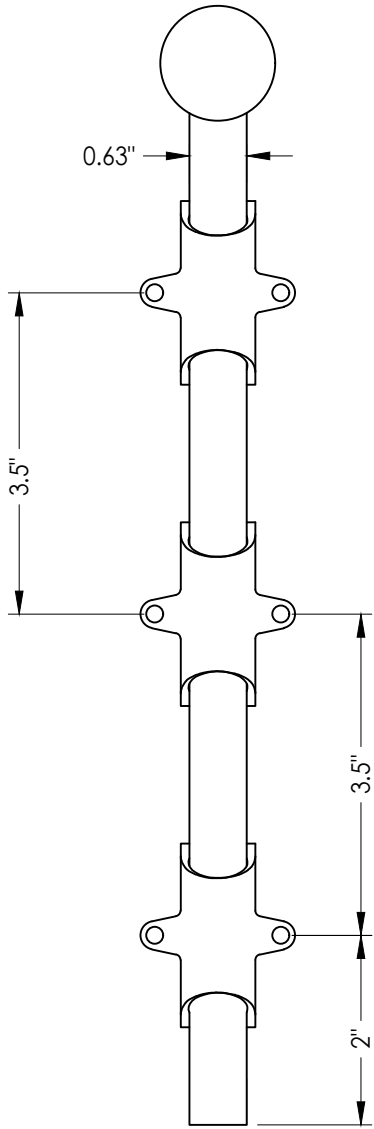


- CONCRETE ANCHOR NOTES:**
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
 - Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required 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" |
- 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.

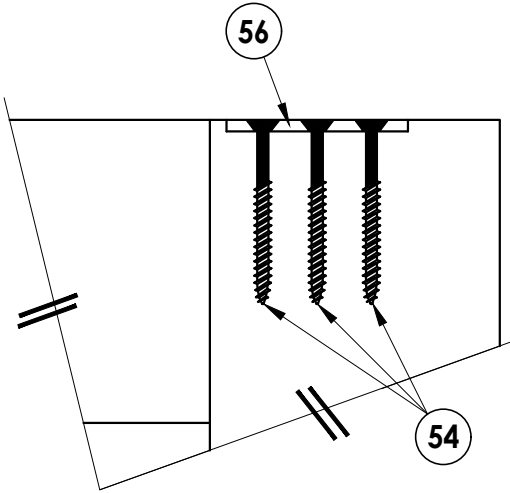
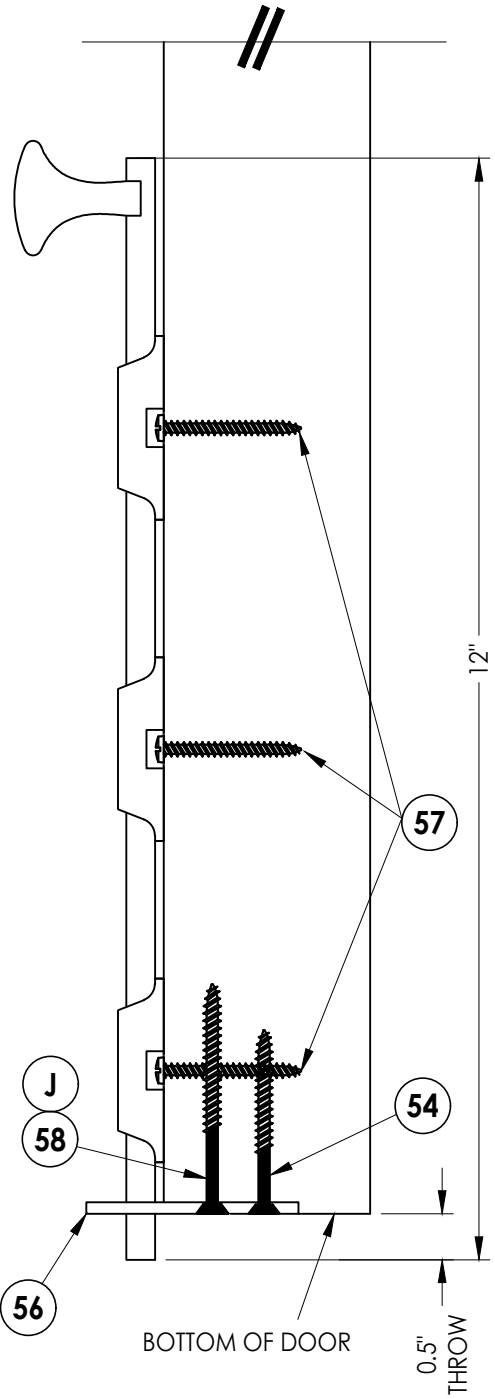
- NOTE:**
- Deadbolt reinforcing plate (1-1/8" x 2-3/4" x 0.12" thick) is required behind strike plate (item #32).

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		PRODUCT: MILLWORK ARTISANS WOOD DOOR		PART OR ASSEMBLY: FRAME ANCHORING	
BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813		REVISIONS		DATE	
4	9/14/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	9/29/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
2	10/03/17	UPDATE TO 6TH ED. (2017)	FBC	JK	
1	04/14/15	UPDATE TO 5TH ED. (2014)	FBC	JK	
				NO.	DATE
DATE: 06/26/12		SCALE: N.T.S.		DWG. BY: JK	
CHK. BY: LFS		DRAWING NO.: FL-15751.4		SHEET 9 OF 11	

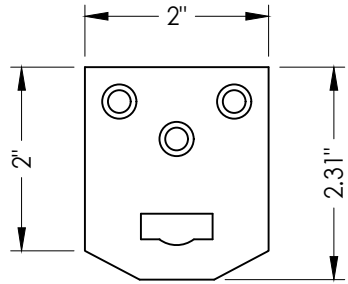
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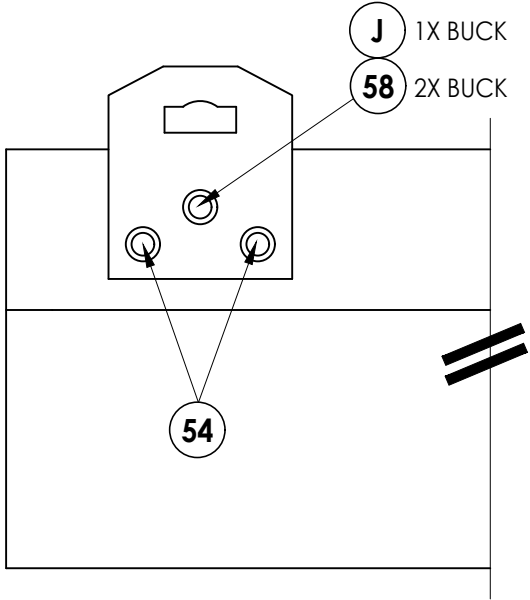
55 **SURFACE BOLT**



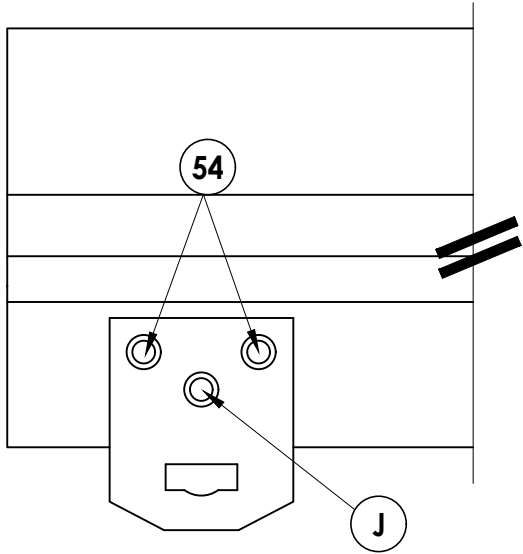
SURFACE BOLT GUIDE PLATE
Typical at top & bottom of door



56 **SURFACE BOLT GUIDE PLATE**



SURFACE BOLT GUIDE PLATE
View looking up at head



SURFACE BOLT GUIDE PLATE
View looking down at sill

NO.	DATE	REVISIONS			
		DATE	BY	CHK.	APP.
4	9/14/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	9/29/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
2	10/03/17	UPDATE TO 6TH ED. (2017)	FBC	JK	
1	04/14/15	UPDATE TO 5TH ED. (2014)	FBC	JK	

DATE: 06/26/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-15751.4
SHEET 10 OF 11

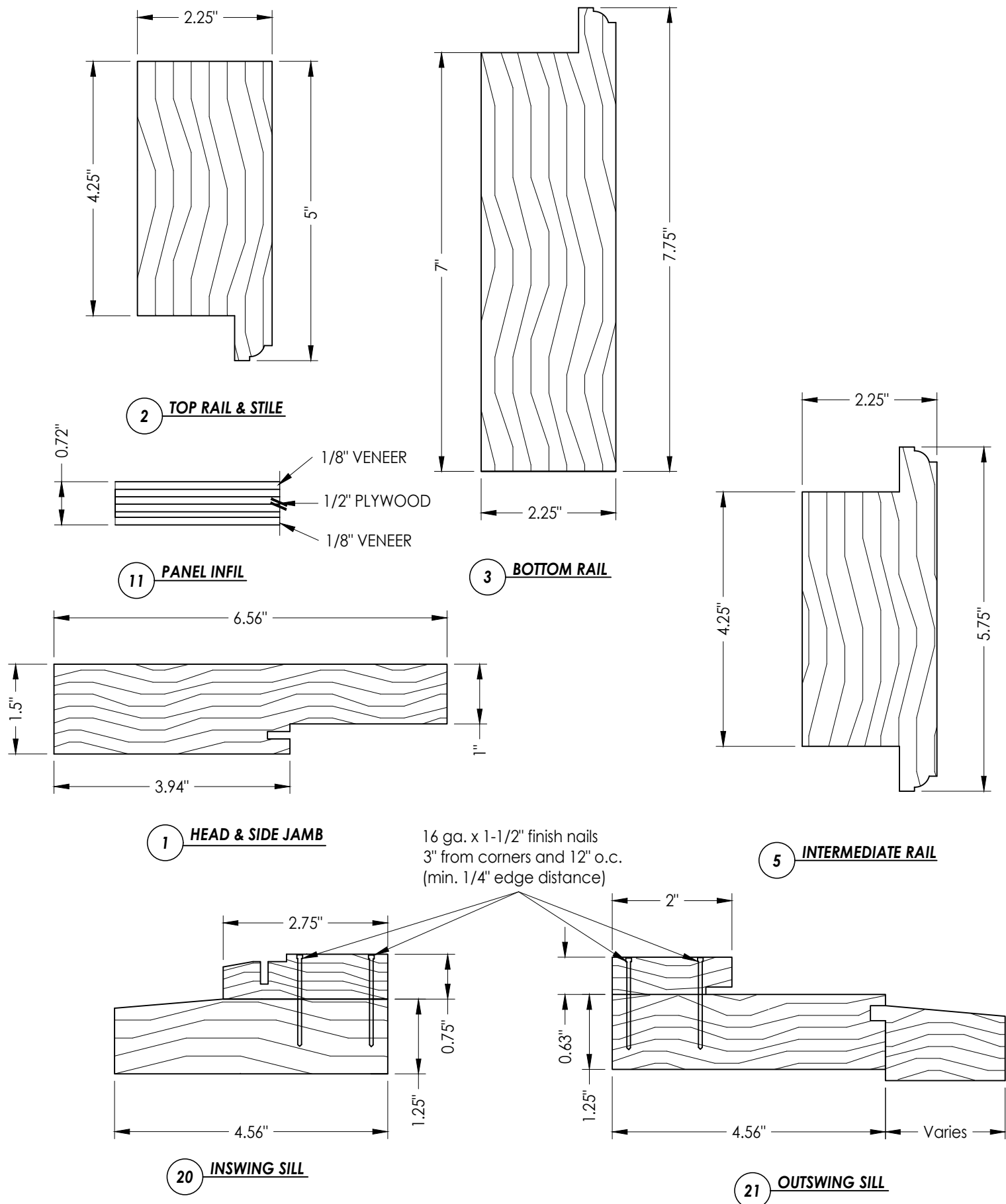
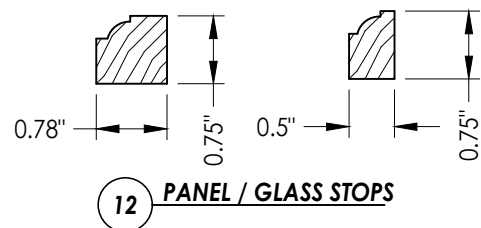
PRODUCT: MILLWORK ARTISANS WOOD DOOR

PART OR ASSEMBLY: SURFACE BOLT DETAILS

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

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Phone No.: 813.659.9197
FBPE Registry No. 9813

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK G >= 0.55	WOOD
B	2X BUCK G >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" FH 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	#7 X 2-1/2" TRIM SCREW (1-1/4" MIN. EMBEDMENT)	STEEL
H	1/4" X 3-1/4" FH DeWALT OR ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" FH DeWALT OR ITW CONCRETE SCREW	STEEL
K	#9 X 3.5" PFH WOOD SCREW	STEEL
L	3/16" X 1-3/4" FH ITW CONCRETE SCREW	STEEL
M	3/16" X 2-1/4" FH ITW CONCRETE SCREW	STEEL
1	HEAD AND SIDE JAMB	WOOD
2	TOP RAIL & STILE	WOOD
3	BOTTOM RAIL	WOOD
5	INTERMEDIATE RAIL	WOOD
10	ASTRAGAL	WOOD
11	PANEL INFIL	WOOD
12	PANEL/GLASS STOPS	WOOD
13	WEATHERSTRIP (QLON)	FOAM
17	23 GA. X 1" FINISH NAIL	STEEL
18	#8 X 1-3/4" FH WOOD SCREW	STEEL
19	#8 X 2" FH WOOD SCREW	STEEL
20	INSWING SILL	WOOD
21	OUTSWING SILL	WOOD
22	5" x 5" HINGE	STEEL
23	#12 X 1-1/4" FH WOOD SCREW	STEEL
24	SUPPORT ANGLE	STEEL
31	LATCH STRIKE PLATE	STEEL
32	DEADBOLT STRIKE PLATE (6" LONG SECURITY)	STEEL
37	#8 X 3/4" FH WOOD SCREW	STEEL
38	#7 X 1-5/8" TRIM SCREW	STEEL
40	WOOD DOOR PANEL	-
50	SIDELITE PANEL	-
53	#8 X 1-1/2" FH WOOD SCREW	STEEL
54	#10 X 2" FH WOOD SCREW	STEEL
55	SURFACE BOLT	STEEL
56	SURFACE BOLT GUIDE PLATE	STEEL
57	#8 X 1-1/2" PPH SMS	STEEL
58	#10 X 2-1/2" PFH WOOD SCREW	STEEL
70	2X MULLION (2 X 8 SELECT STRUCTURAL - SOUTHERN YELLOW PINE (RIPPED TO 6-3/8"))	-



4	9/14/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
3	9/29/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
2	10/03/17	UPDATE TO 6TH ED.	(2017)	FBC	JK
1	04/14/15	UPDATE TO 5TH ED.	(2014)	FBC	JK
NO.	DATE				
					REVISIONS

DATE: 06/26/12

SCALE: *N.T.S.*

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-15751.4

SHEET 11 OF 11

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