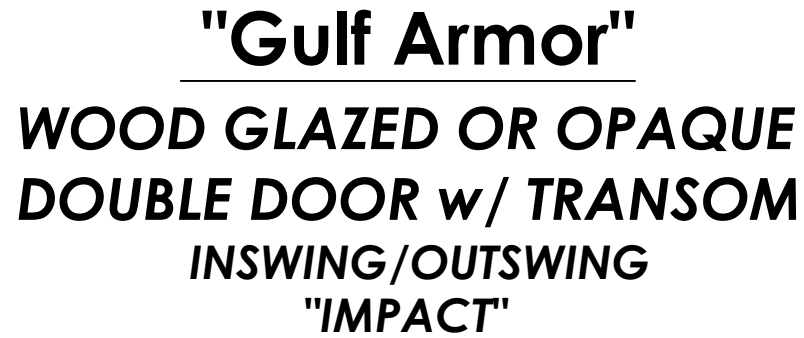
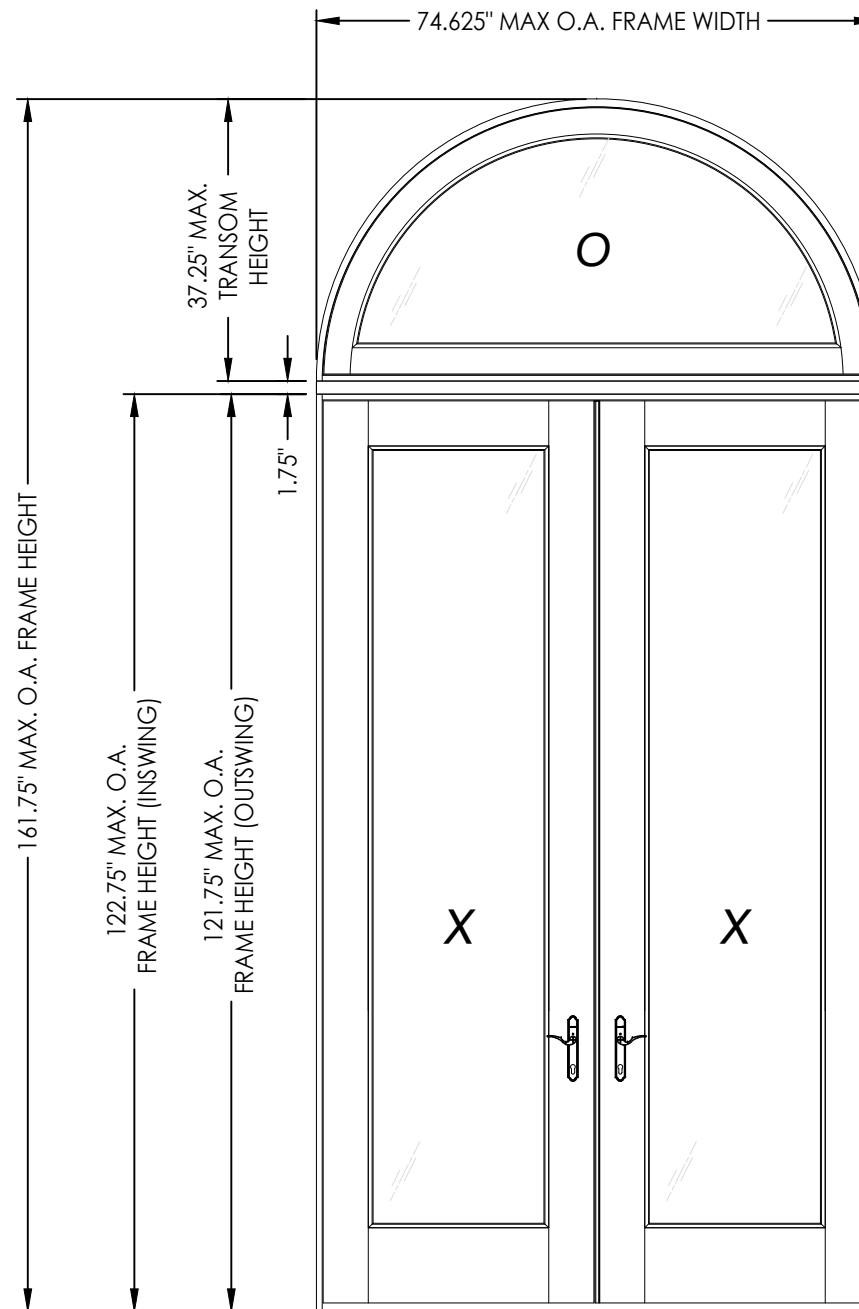


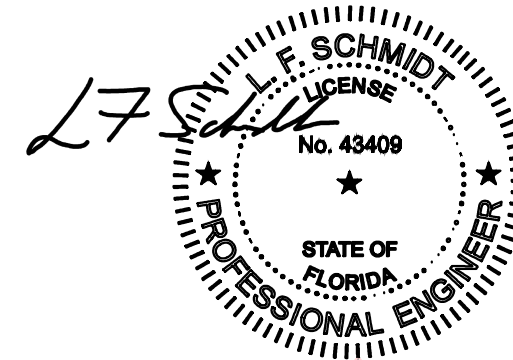


1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "HVHZ", this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
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.
6. Outswing configurations meet water infiltration requirements for "HVHZ".
7. Inswing configurations do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Door Panel Details
4	Transom Panel Details
5	Glazing & Panel Infil Details
6	Elevations
7	Horizontal & Vertical Cross Sections (2X Buck)
8	Horizontal & Vertical Cross Sections (1X Buck)
9	Vertical Cross Sections (Thresholds)
10	Buck Anchoring
11	Frame Anchoring
12	Hardware Details
13	Bill of Materials & Components



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING (WATER INFILTRATION REQUIRED)		DESIGN PRESSURE (PSF) OUTSWING (WATER INFILTRATION NOT REQUIRED)	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
$\frac{O}{XX}$	+60.0	-60.0	+60.0	-65.0	+65.0	-65.0

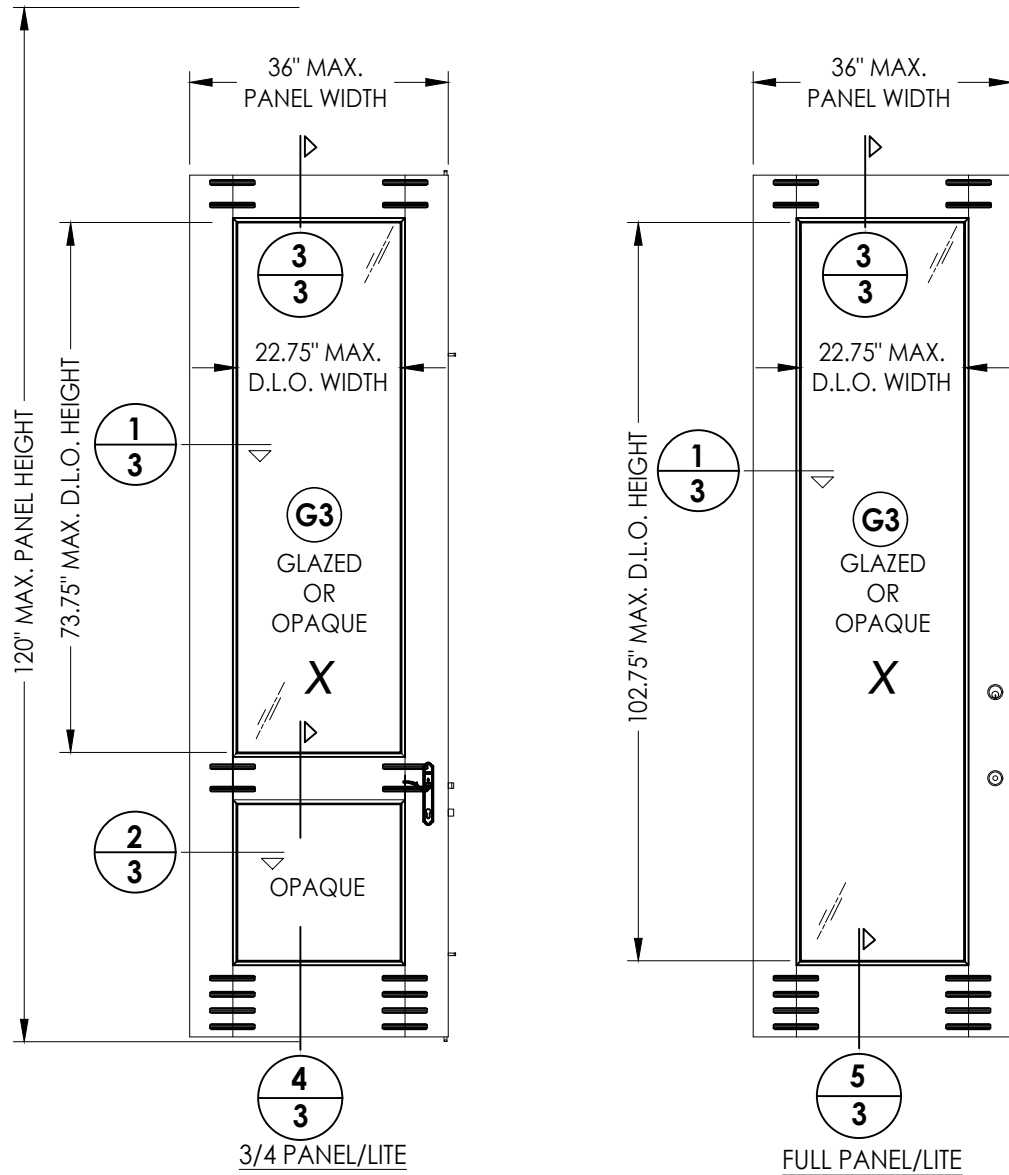
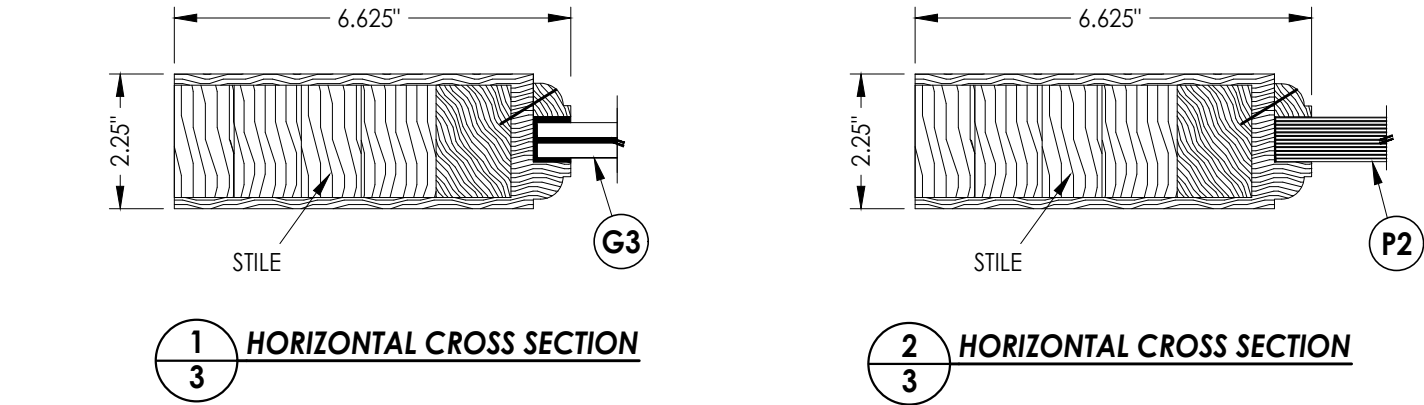


This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

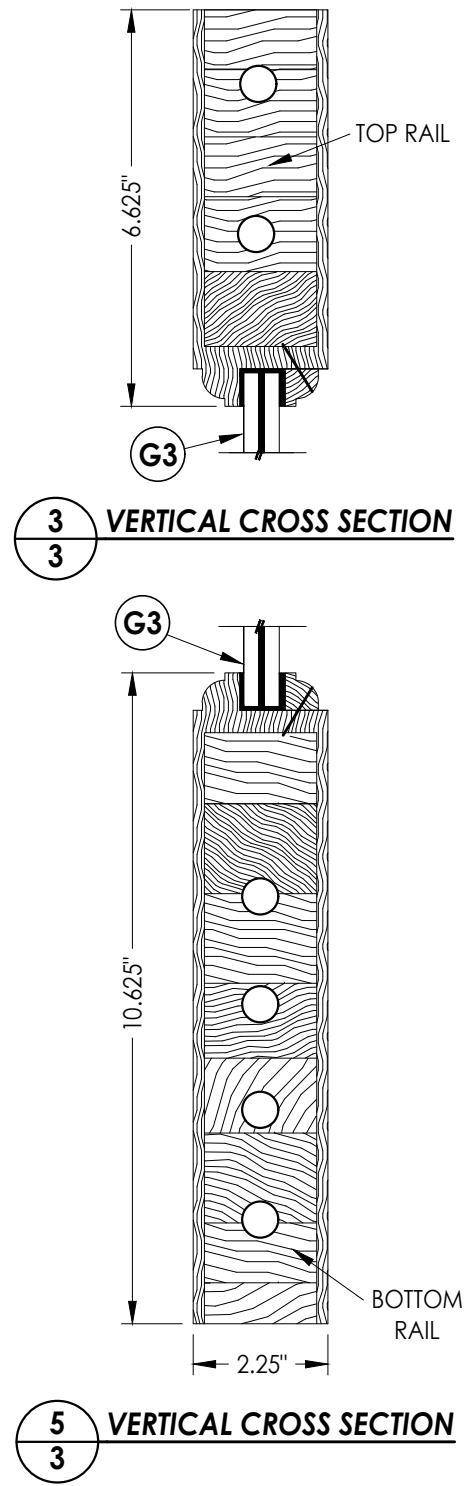
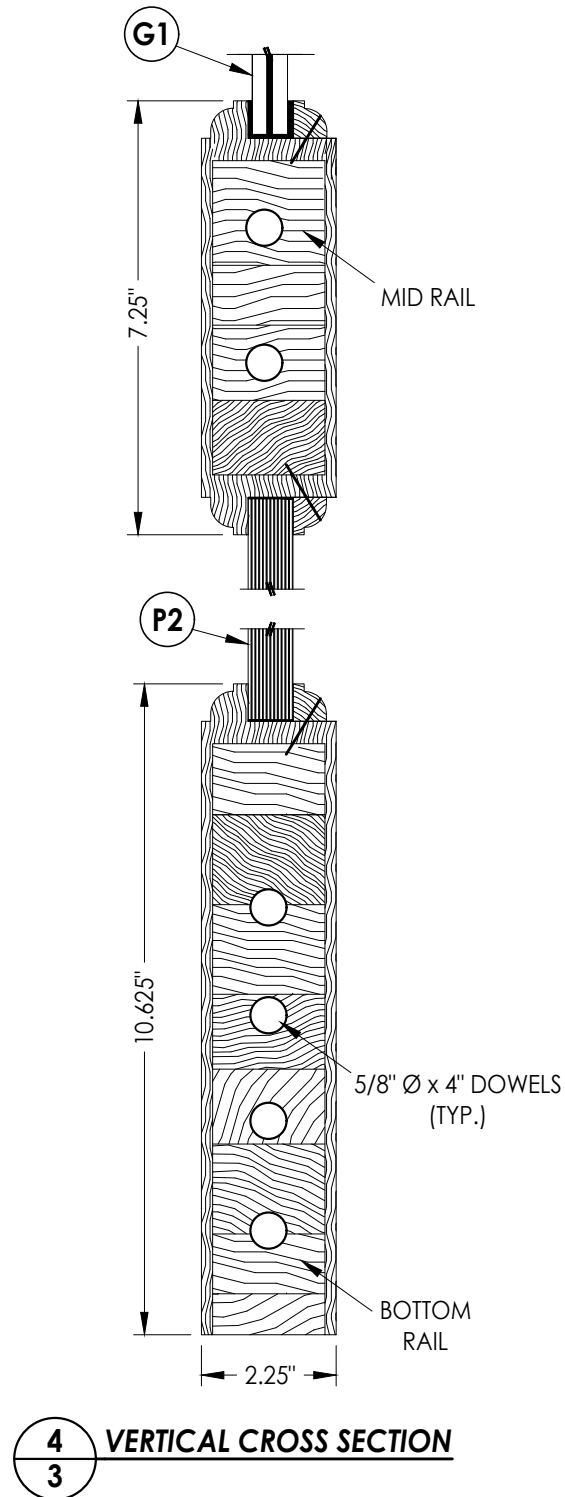
[illegible]

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41 WOOD DOOR PANEL (3'-0")
Glazed or Opaque

WOOD DOOR COMPONENTS:
ENGINEERED STAVE CORE: SIPO (UTILE) (G = 0.53)
VENEER/EDGES: CYPRESS (G = 0.42)
NOTE: VENEER/EDGE MAY INCLUDE OAK, CHERRY, WALNUT OR
OTHER OPTIONAL HARDWOOD SPECIES w/ G >= 0.42.



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:
Builders FirstSource
WOOD DOOR

PART OR ASSEMBLY:
DOOR PANEL
DETAILS

NO.	DATE	REVISIONS
3	9/18/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/10/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017) FBC LFS

DATE: 5/10/17

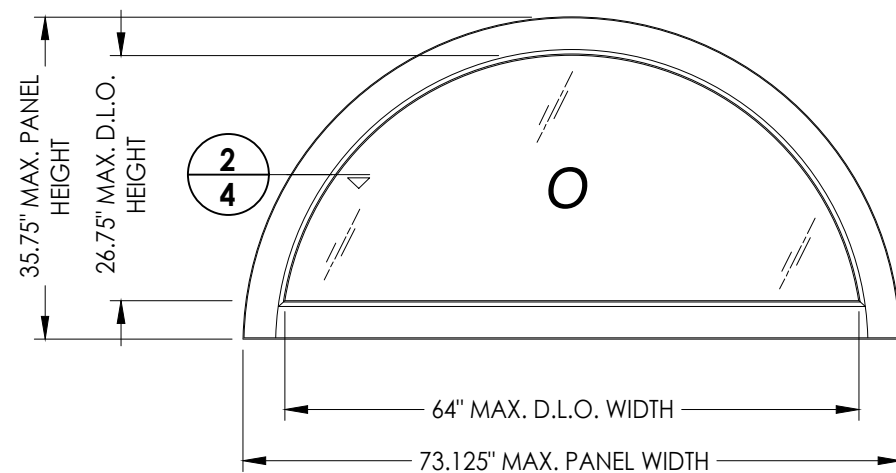
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DWG. BY: JK

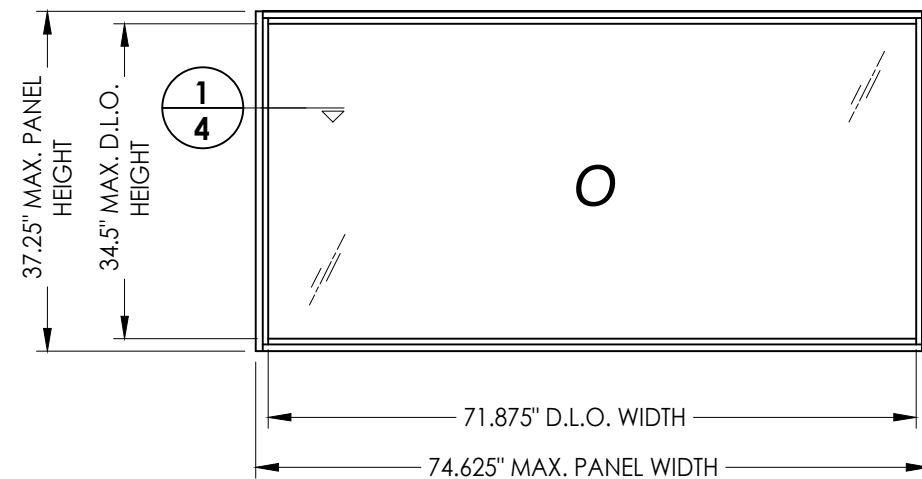
CHK. BY: LFS

DRAWING NO.: FL-22347.10

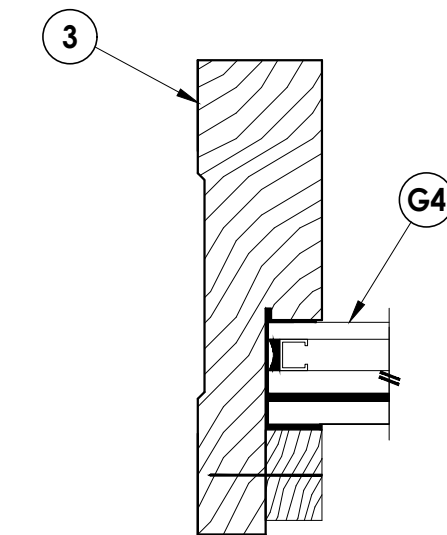
SHEET 3 OF 13



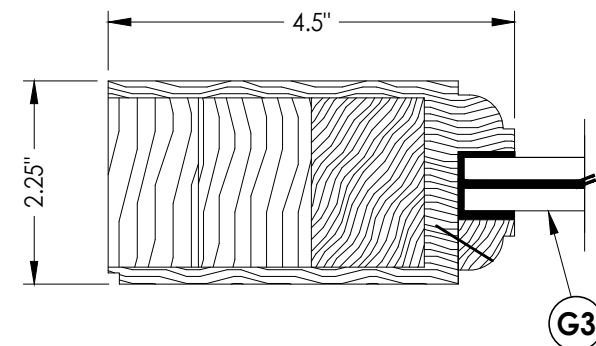
71 WOOD TRANSOM PANEL



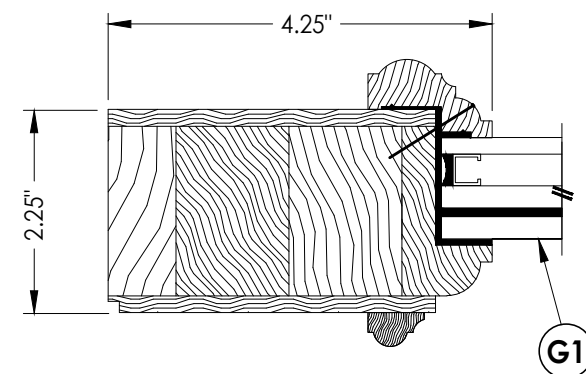
70 WOOD TRANSOM PANEL
DIRECT SET



1 4 HORIZONTAL CROSS SECTION



2 4 HORIZONTAL CROSS SECTION



3 HORIZONTAL CROSS SECTION

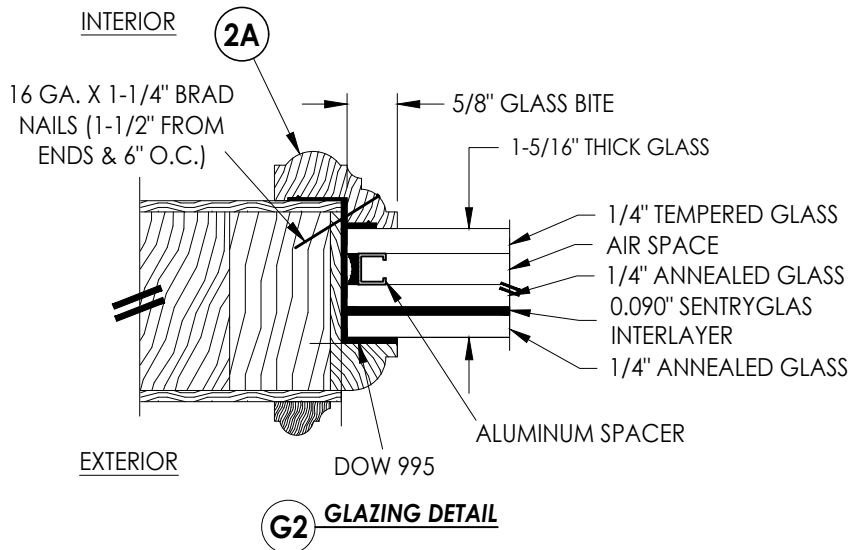
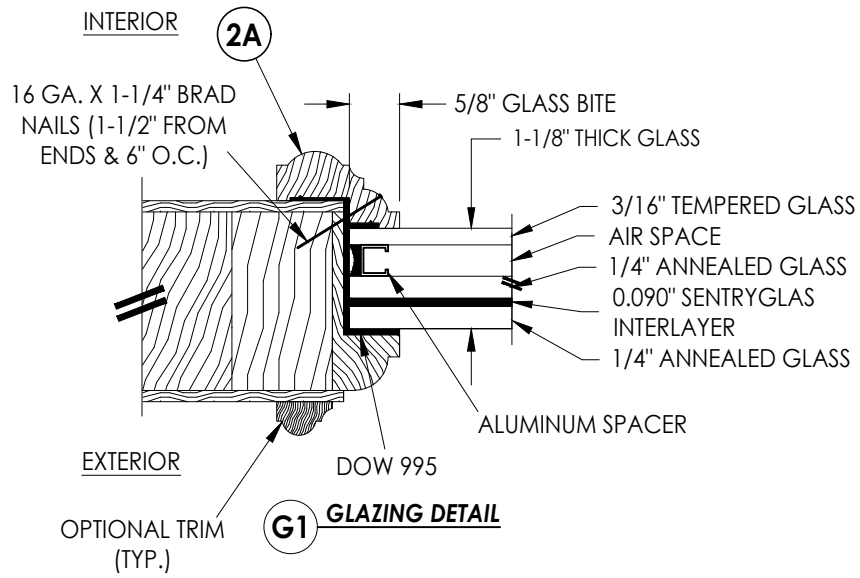
NOTE:
1. ALL FRAME CORNERS SECURED WITH (1) 1/4" X 6" LAG SCREW.

[illegible]

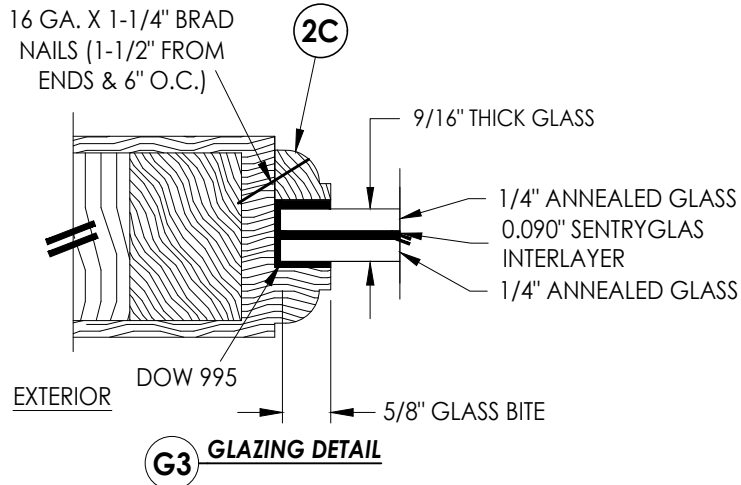
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

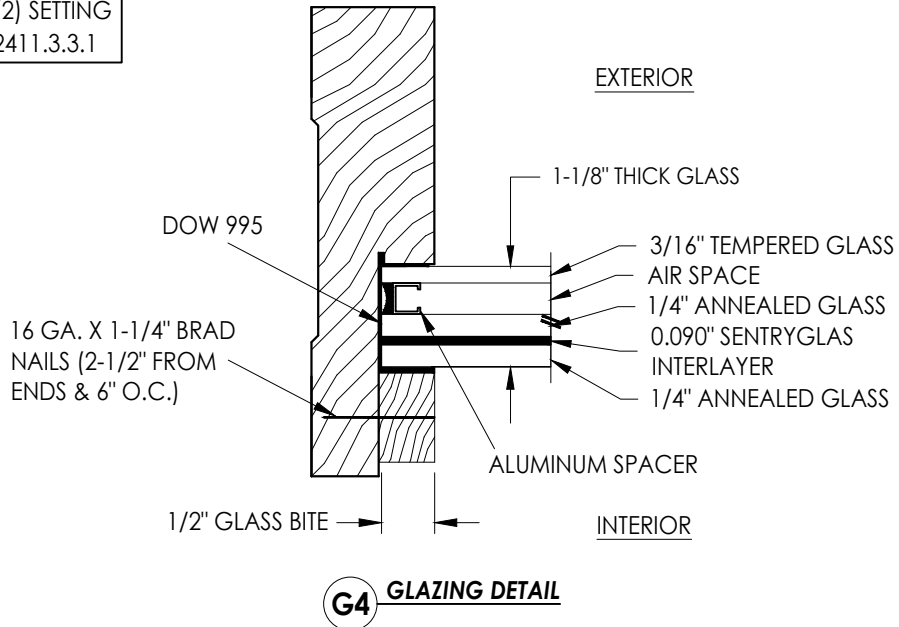
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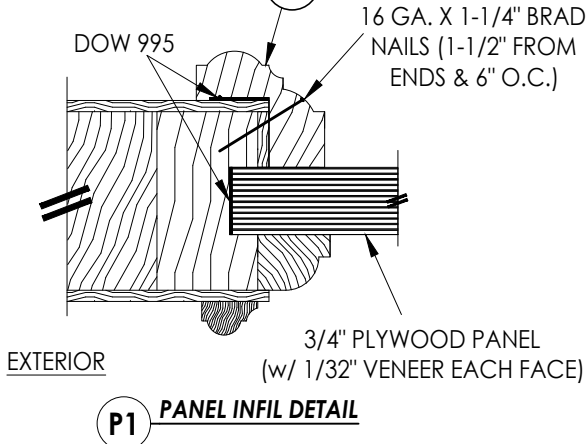
INTERIOR



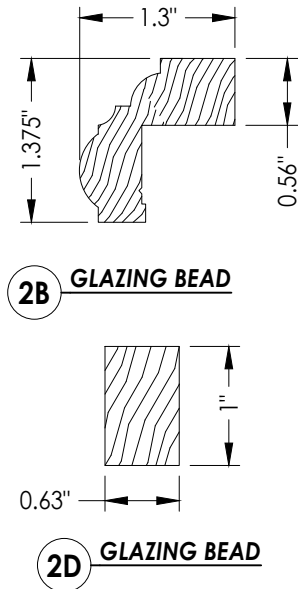
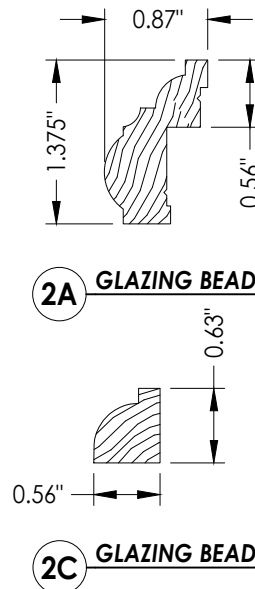
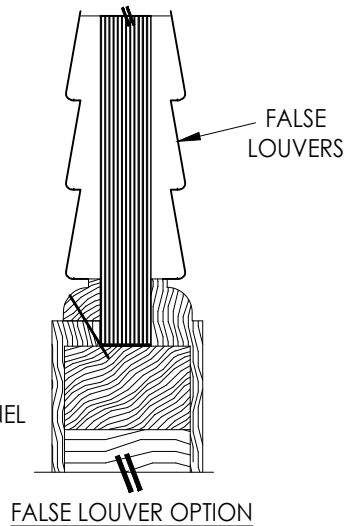
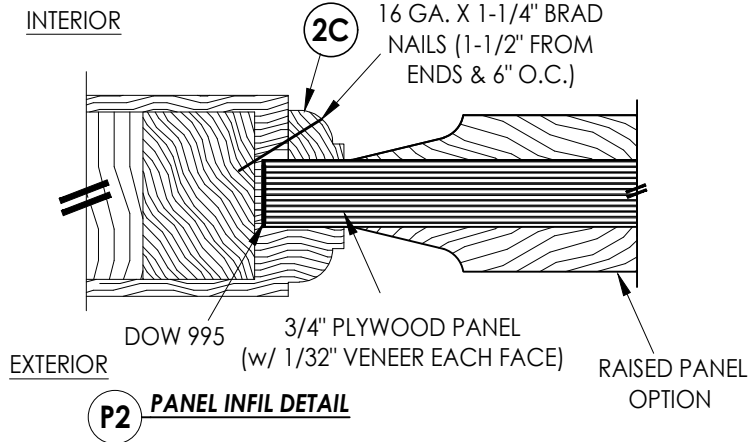
NOTE: GLAZING > 36" WIDE REQUIRES TWO (2) SETTING BLOCKS CONFORMING TO FBC SECTION 2411.3.3.1



INTERIOR



INTERIOR



Documents Prepared By:

Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:
Builders FirstSource
WOOD DOOR

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

PART OR ASSEMBLY:
GLAZING & PANEL INFIL
DETAILS

NO.	DATE	REVISIONS	BY
3	9/18/23	UPDATE TO 8TH ED. (2023) FBC	LFS
2	8/10/20	UPDATE TO 7TH ED. (2020) FBC	LFS
1	10/12/17	UPDATE TO 6TH ED. (2017) FBC	LFS
DATE			
DATE: 5/10/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-22347.10			
SHEET 5 OF 13			

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Technical drawing of a door assembly. The drawing shows a top panel labeled 'O' and two lower panels labeled 'X'. Callouts 1 through 9 are present:

- Callout 1: A circle with '1' over '9' pointing to the bottom left corner of the left panel 'X'.
- Callout 2: A circle with '2' over '9' pointing to the bottom left corner of the right panel 'X'.
- Callout 3: A circle with '3' over '9' pointing to the bottom right corner of the left panel 'X'.
- Callout 4: A circle with '4' over '7' pointing to the handle area between the two panels 'X'.
- Callout 5: A circle with '5' over '9' pointing to the handle area between the two panels 'X'.
- Callout 6: A circle with '6' over '7' pointing to the top center of the door assembly.
- Callout 7: A circle with '7' over '8' pointing to the top right corner of the top panel 'O'.
- Callout 8: A circle with '8' over '8' pointing to the top right corner of the top panel 'O'.
- Callout 9: A circle with '9' over '8' pointing to the top right corner of the top panel 'O'.

The image displays ten distinct door designs, organized into two horizontal rows of five. Each drawing is a black-and-white line art representation of a door's front view.

- Top Row, Left to Right:**
 - A solid door with a small transom window at the top and a small rectangular panel at the bottom.
 - A door with a large transom window at the top, two vertical panels in the middle, and a small rectangular panel at the bottom.
 - A solid door with a small transom window at the top and horizontal slats at the bottom.
 - A door with a grid of sixteen small square panes (4x4) and a small rectangular panel at the bottom.
 - A door with a grid of sixteen small square panes (4x4) and a small rectangular panel at the bottom.
- Bottom Row, Left to Right:**
 - A door with a grid of sixteen small square panes (4x4) and a small rectangular panel at the bottom.
 - A solid door with no features.
 - A door with two vertical panels in the middle and a small rectangular panel at the bottom.
 - A door with two vertical panels in the middle and a small rectangular panel at the bottom.
 - A door with horizontal slats and a small rectangular panel at the bottom.

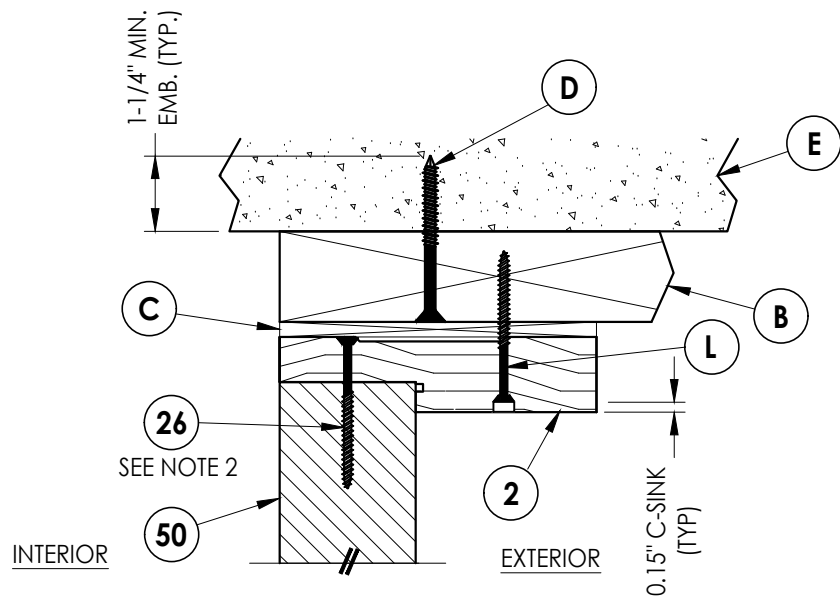
HARDWARE TABLE	
MANUFACTURER	MODEL
HOPPE	MULTIPOINT HARDWARE: HLS 9000 SERIES MULTIPOINT LOCK ACTIVE: ROUND BOLT/SHOOT BOLT (5-PT.) INACTIVE: SHOOT BOLT (2-PT.)

[illegible]

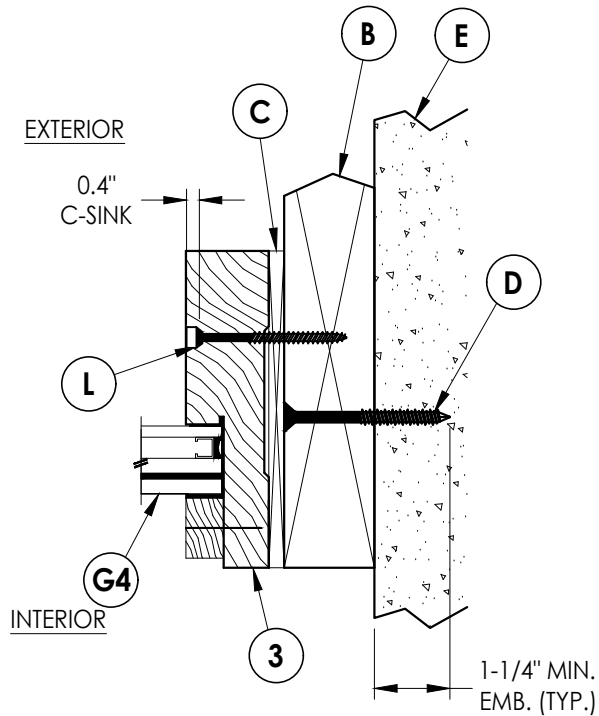
SHEET 6 OF 13

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BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

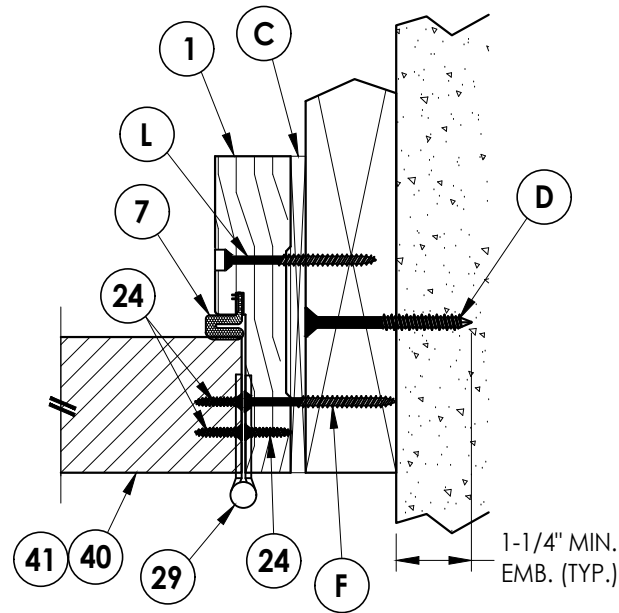
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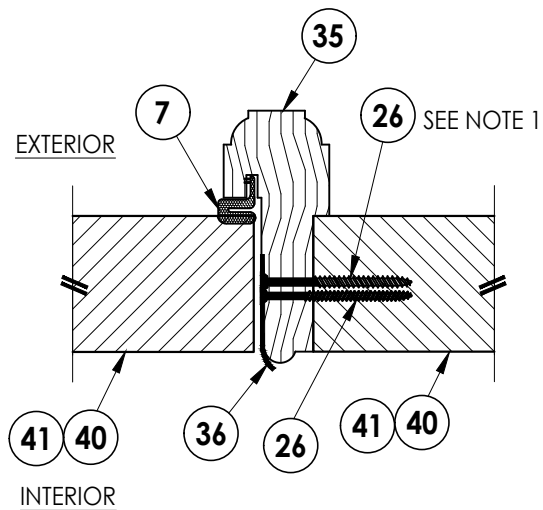
1
7 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



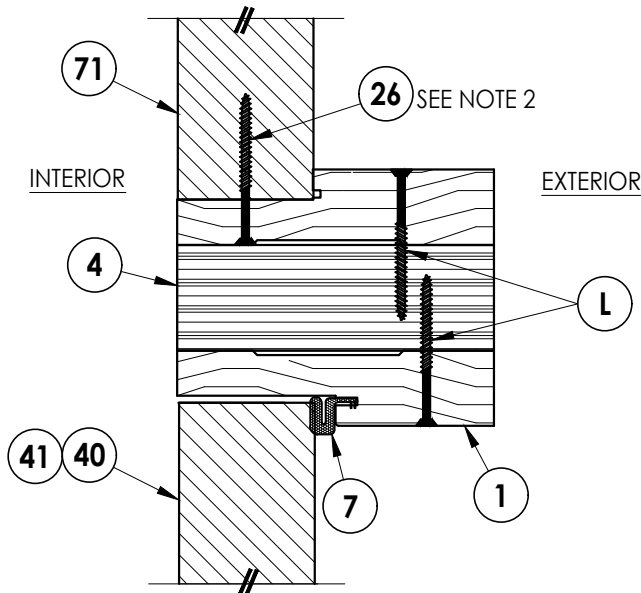
2
7 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



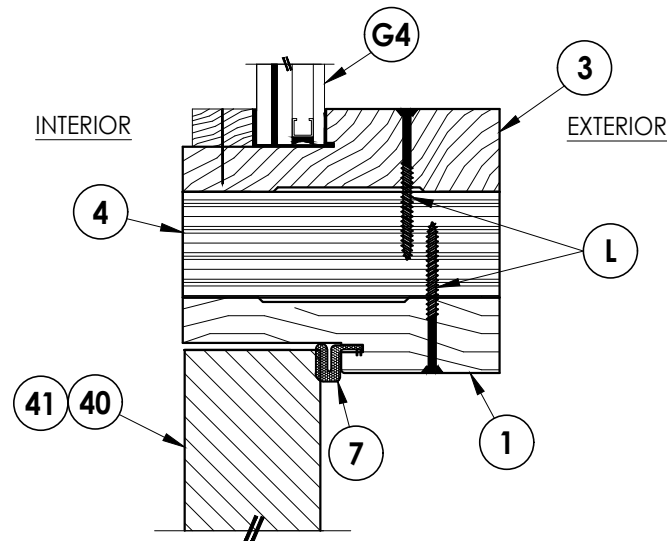
3
7 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



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



5
7 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)



6
7 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)

- NOTES:
- Item #26 located 4" from each end & 9 more equally spaced (11 total).
 - Item #26 located 4" from each end & 1 at the center line (3 total).

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

R²W BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
Builders FirstSource
WOOD DOOR

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

NO.	DATE	REVISIONS
3	9/18/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/10/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017) FBC LFS

DATE: 5/10/17

SCALE: N.T.S.

DWG. BY: JK

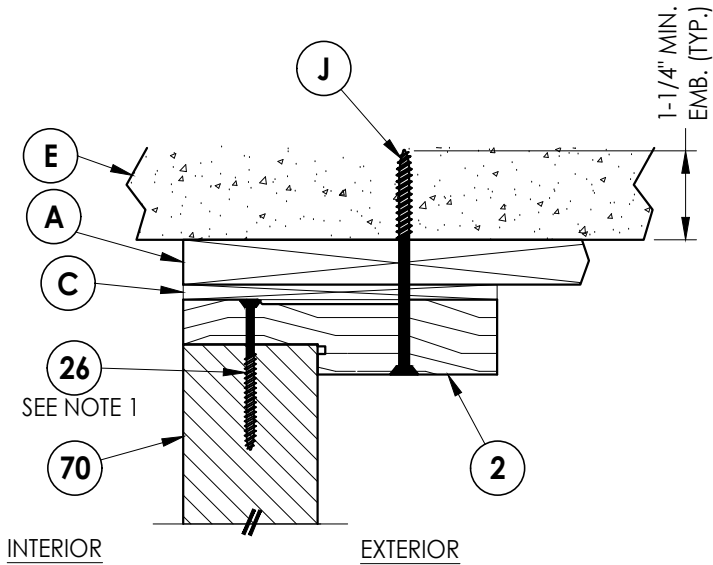
CHK. BY: LFS

DRAWING NO.:
FL-22347.10

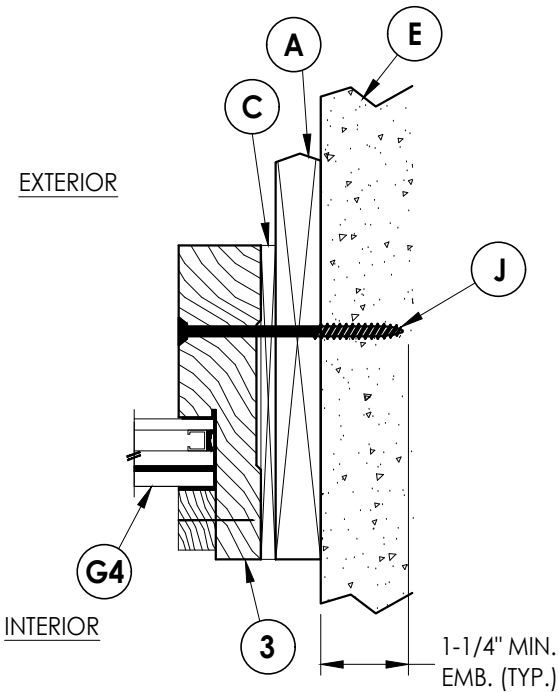
SHEET 7 OF 13

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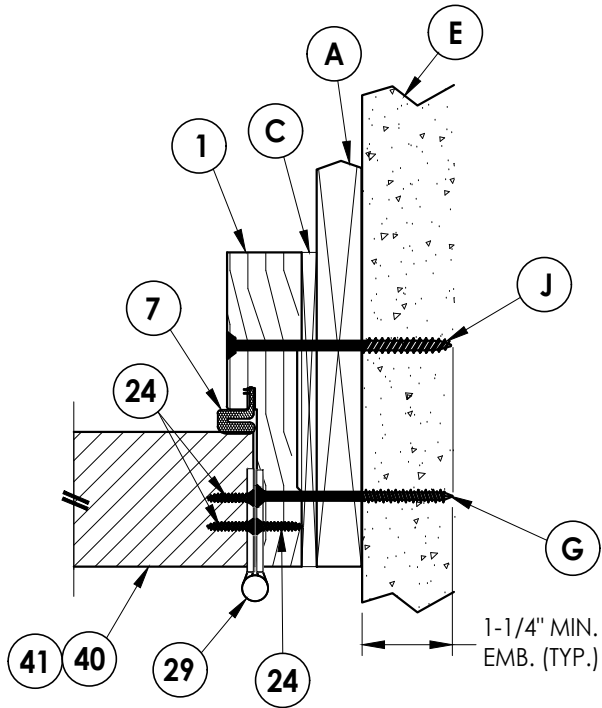
NOTES:
1. Item #26 located 4" from each end & 1 at the center line (3 total).



1
8 **VERTICAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)



2
8 **HORIZONTAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)



3
8 **HORIZONTAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)

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

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

PRODUCT:	Builders FirstSource WOOD DOOR	
	PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)	

NO.	DATE	REVISIONS			
		DATE	BY	CHK.	APP.
3	9/18/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	8/10/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
1	10/12/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	

DATE: 5/10/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-22347.10

SHEET 8 OF 13

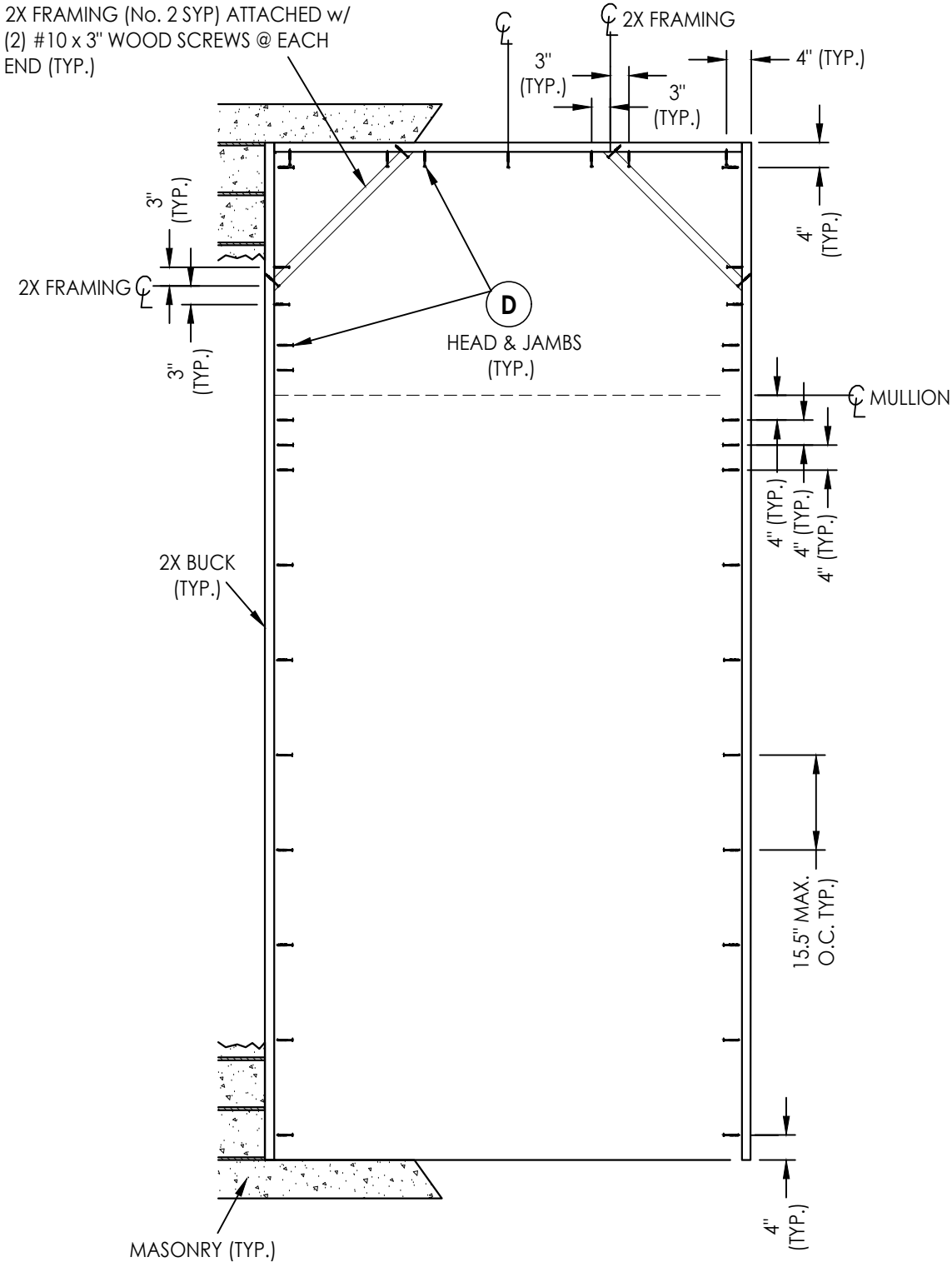


DATE:	5/10/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-22347.10
SHEET	<u>9</u> OF <u>13</u>

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

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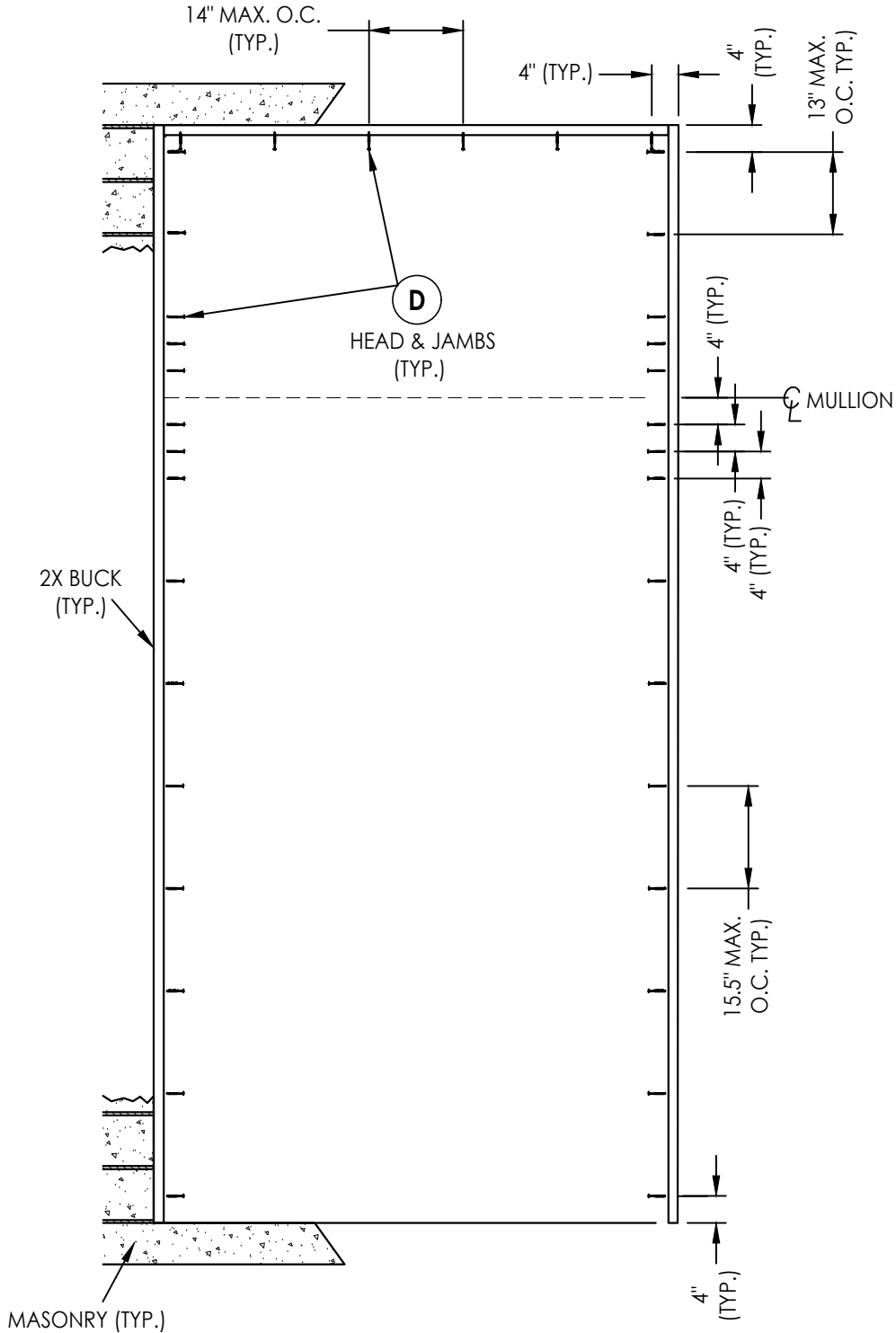
2X FRAMING (No. 2 SYP) ATTACHED w/
(2) #10 x 3" WOOD SCREWS @ EACH
END (TYP.)



2X BUCK ANCHORING
O/XX (Arch Top Transom)

NOTE:
1. ALL FRAME CORNERS SECURED WITH (3) #8 X 2-1/2" FH
DEEP THREAD WOOD SCREWS @ SILL.

14" MAX. O.C.
(TYP.)



2X BUCK ANCHORING
O/XX

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:
Builders FirstSource
WOOD DOOR

PART OR ASSEMBLY:
BUCK ANCHORING

NO.	DATE	REVISIONS
3	9/18/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/10/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017) FBC LFS

DATE: 5/10/17

SCALE: N.T.S.

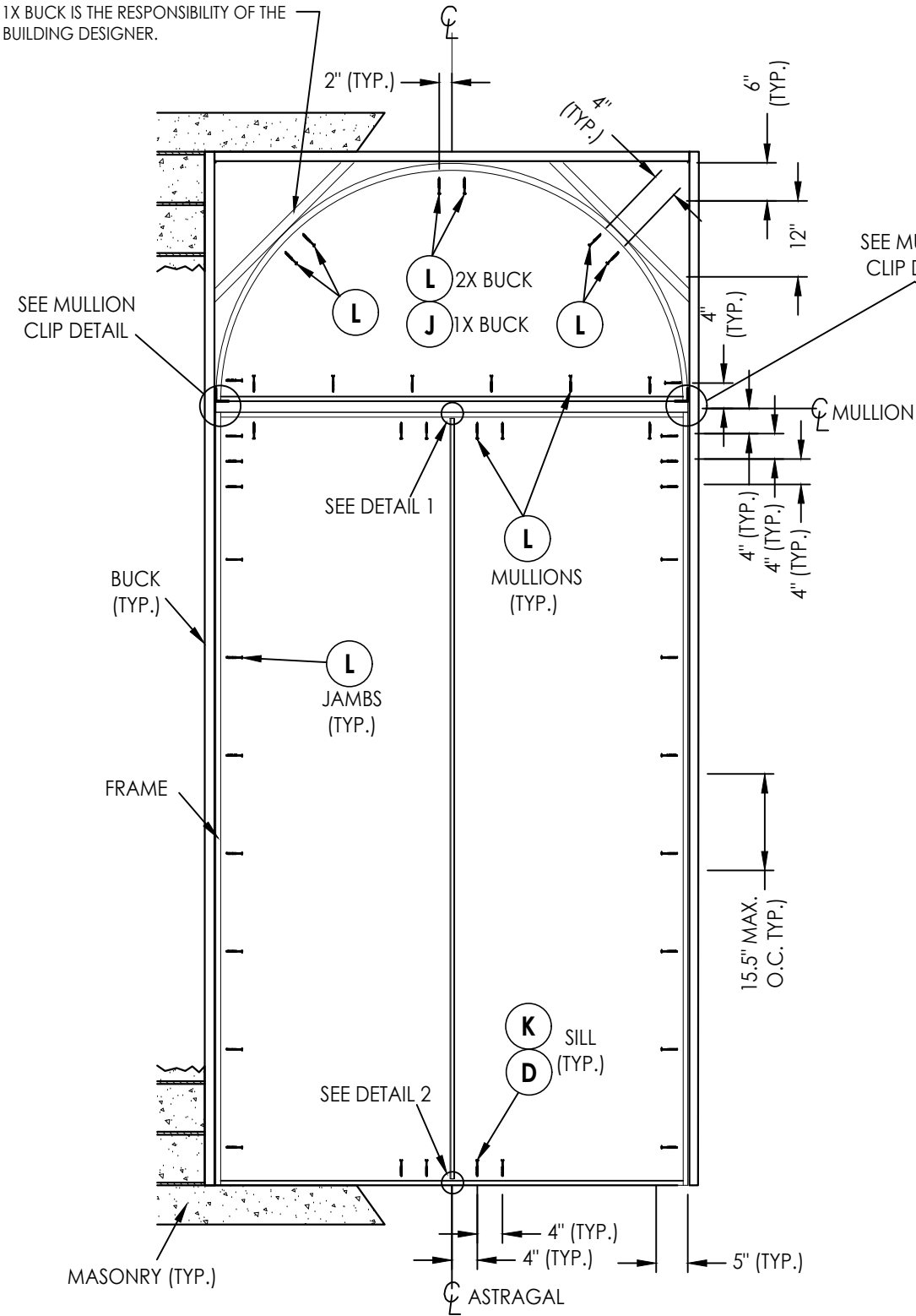
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CHK. BY: LFS

DRAWING NO.:
FL-22347.10

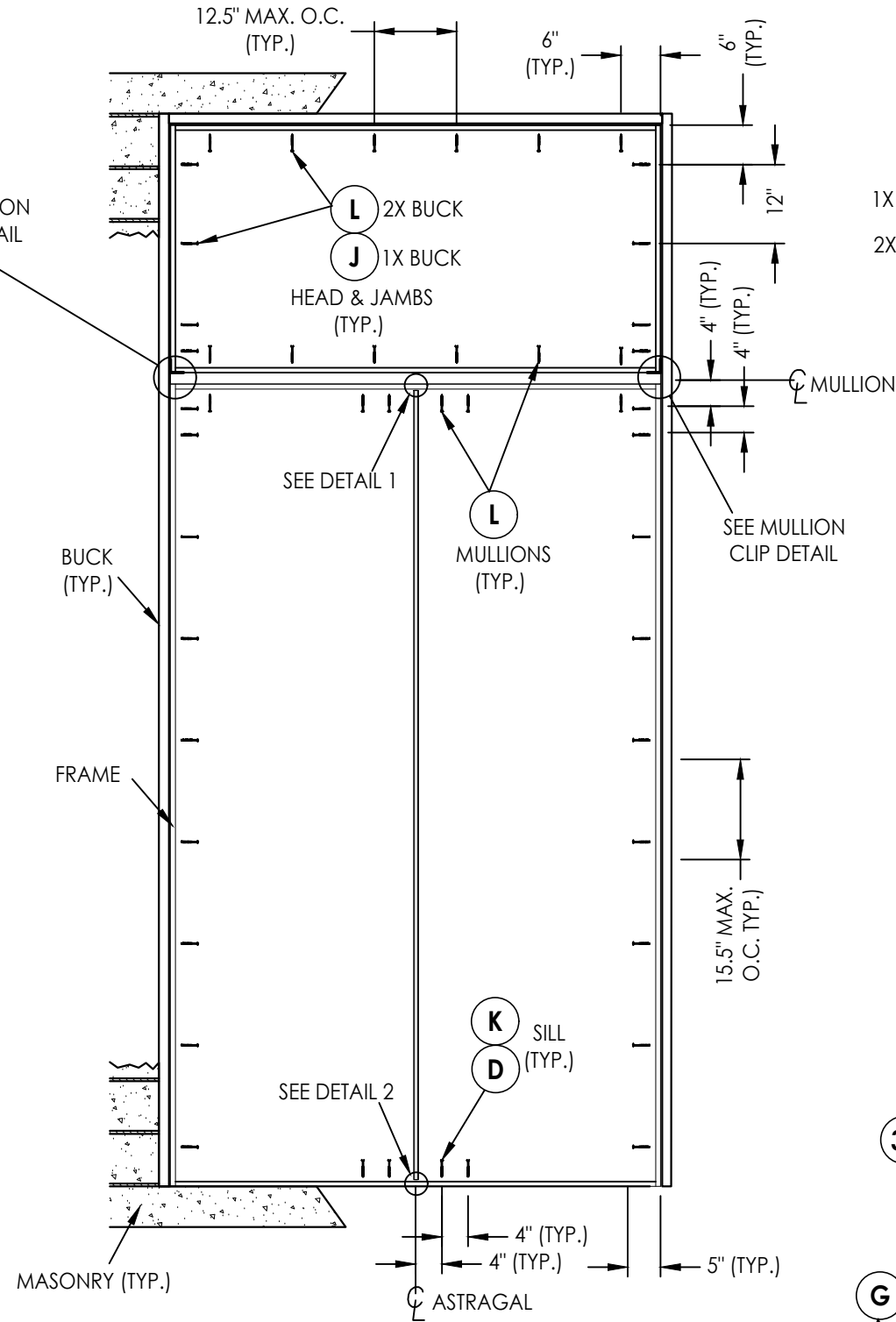
SHEET 10 OF 13

NOTE: ANCHORING OF FRAMING TO 1X BUCK IS THE RESPONSIBILITY OF THE BUILDING DESIGNER.

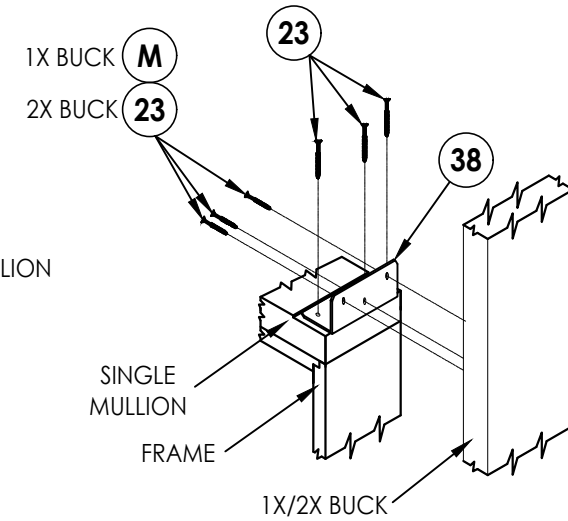


FRAME ANCHORING

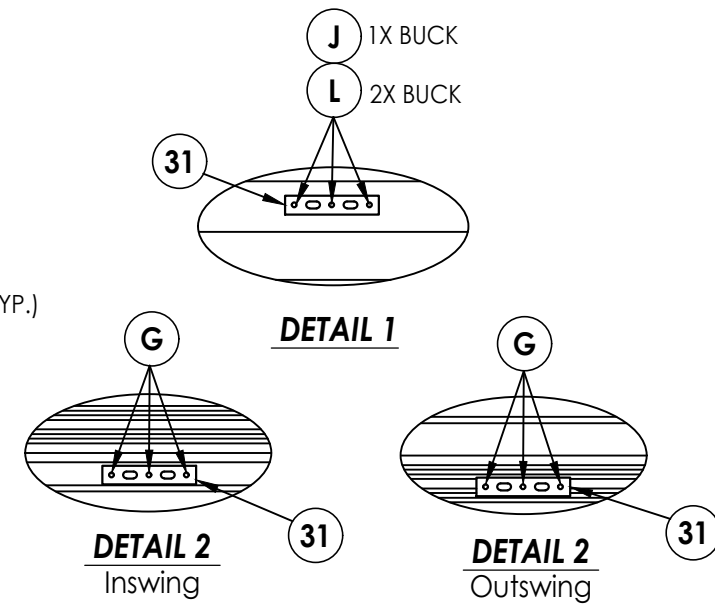
NOTE:
1. ALL FRAME CORNERS SECURED WITH (3) #8 X 2-1/2" FH
DEEP THREAD WOOD SCREWS @ SILL.



FRAME ANCHORING
O/XX



MULLION CLIP 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: Builders FirstSource
WOOD DOOR

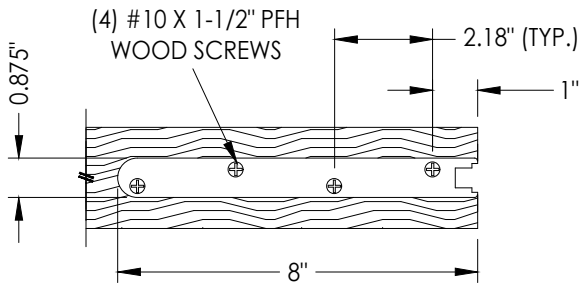
PART OR ASSEMBLY:
FRAME ANCHORING

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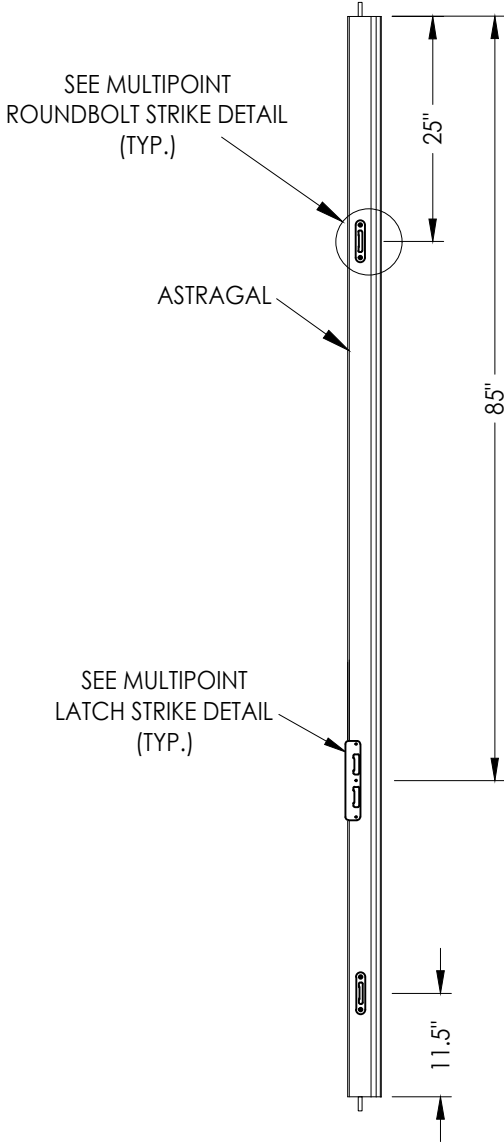
DATE:	5/10/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-22347.10
SHEET	11 OF 13

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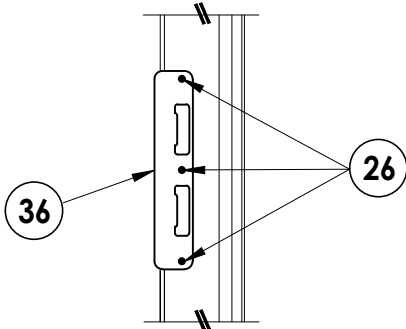


SHOOTBOLT REINFORCEMENT
AT TOP & BOTTOM OF DOOR PANEL
(1/8" THICK STEEL)

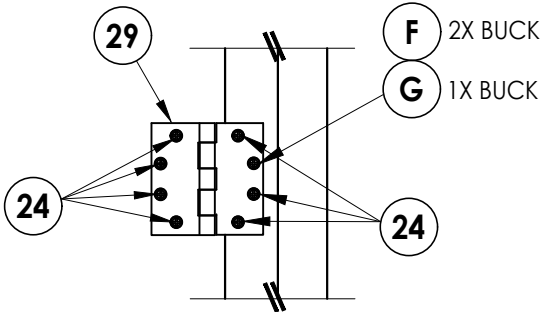
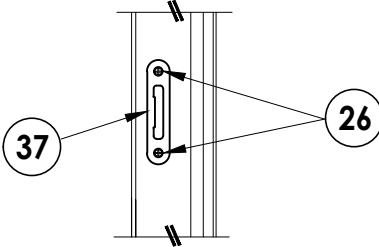


MULTIPOINT LOCK DETAILS

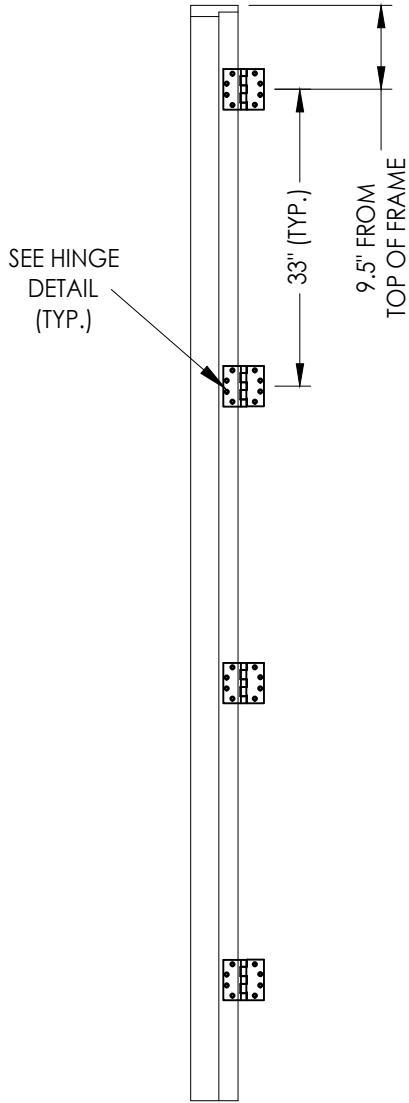
MULTIPOINT ROUND BOLT STRIKE DETAIL



MULTIPOINT STRIKE DETAIL



HINGE DETAIL



HINGE JAMB

NO.	DATE	REVISIONS
3	9/18/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/10/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017) FBC LFS

DATE: 5/10/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-22347.10

SHEET 12 OF 13

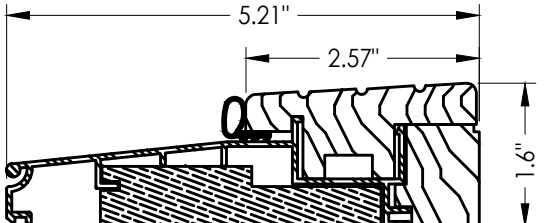
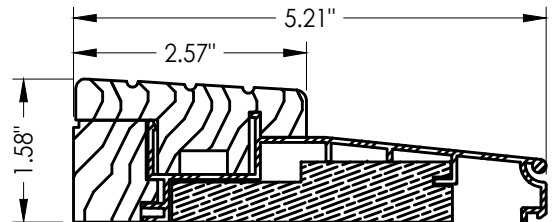
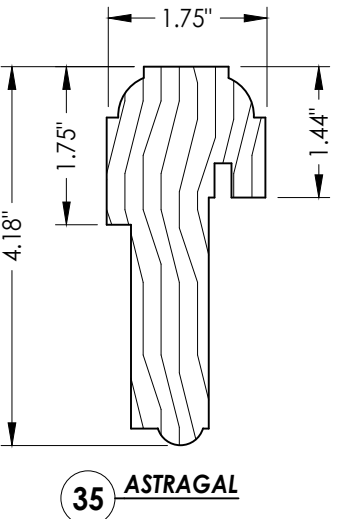
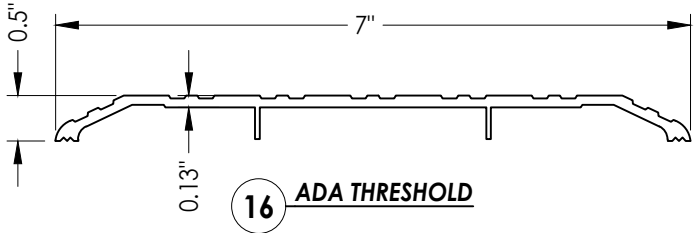
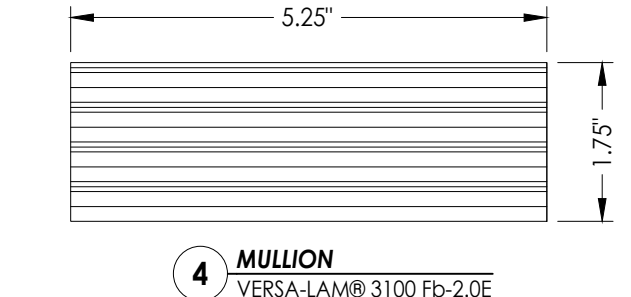
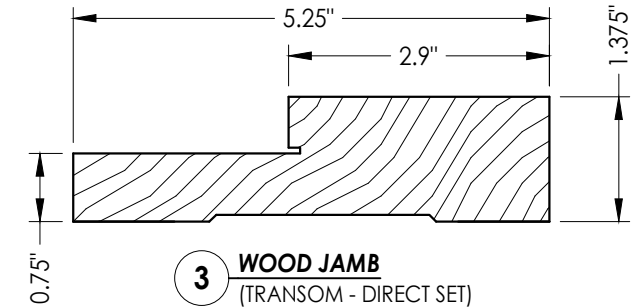
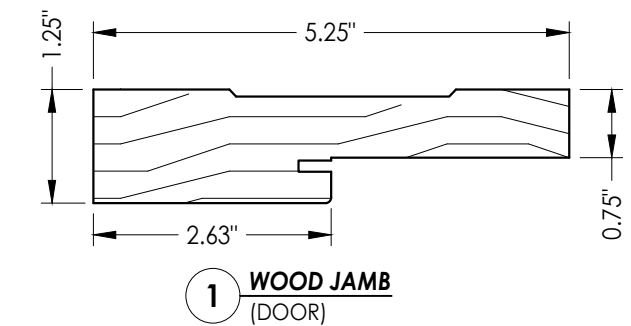
PRODUCT:	Builders FirstSource WOOD DOOR
PART OR ASSEMBLY:	HARDWARE DETAILS

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

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 WOOD SCREW	STEEL
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	1/4" X 1-3/4" 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 2-1/4" PFH ITW CONCRETE SCREW	STEEL
1	JAMB (DOOR)	WOOD
3	JAMB (TRANSOM - DIRECT SET)	WOOD
4	MULLION	LVL
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
14	OUTSWING THRESHOLD	ALUM/COMP
15	INSWING THRESHOLD	ALUM/COMP
16	ADA THRESHOLD	ALUM
23	#10 X 1-1/2" PFH WOOD SCREW	STEEL
24	#12 x 1" PFH WOOD SCREW	STEEL
25	#8 x 1-3/4" PFH WOOD SCREW	STEEL
26	#8 x 2-1/2" PFH WOOD SCREW	STEEL
29	4.5" X 4.5" HINGE	STEEL
31	SHOOTBOLT STRIKE PLATE	STEEL
35	ASTRAGAL	WOOD
36	MULTIPOINT STRIKE PLATE	STEEL
37	MULTIPOINT ROUND BOLT STRIKE DETAIL	STEEL
38	MULLION ANGLE CLIP (USP ML24-TZ)	STEEL
40	DOOR PANEL	WOOD
41	DOOR PANEL	WOOD
50	SIDELITE PANEL	WOOD
51	SIDELITE PANEL (DIRECT SET)	WOOD
70	TRANSOM PANEL	WOOD

WOOD FRAME COMPONENTS: SIPO (UTILE) ($G = 0.53$)



- 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: Builders FirstSource WOOD DOOR		PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS	
3	9/18/23	UPDATE TO 8TH ED. (2023)	FBC LFS
2	8/10/20	UPDATE TO 7TH ED. (2020)	FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017)	FBC LFS
NO.	DATE		BY
			REVISIONS
DATE: 5/10/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-22347.10			
SHEET 13 OF 13			