



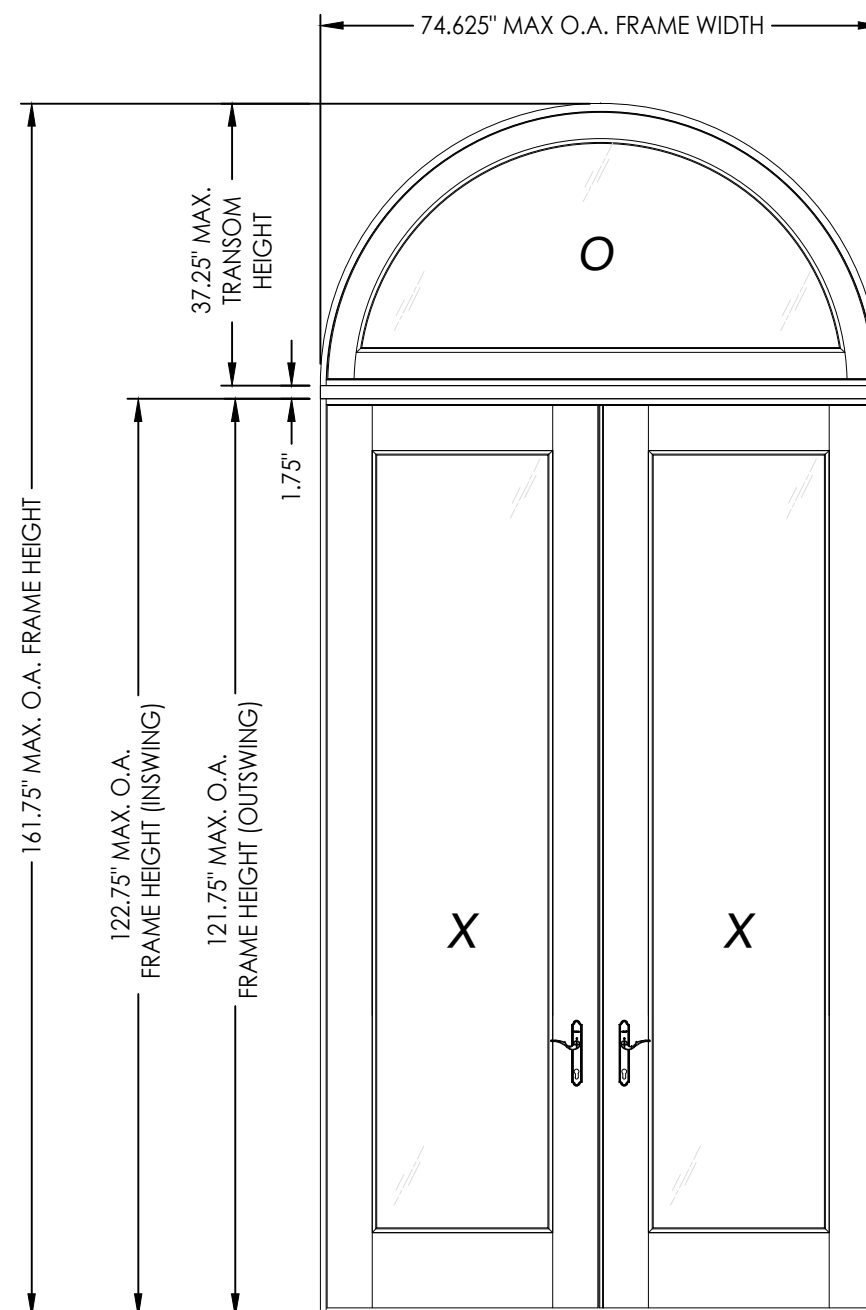
All Phase Custom Mill Shop
7471 Sawyer Circle
Port Charlotte, Florida 33981

"COASTAL IMPACT DOORS"
WOOD GLAZED OR OPAQUE
DOUBLE DOOR w/ TRANSOM
INSWING/OUTSWING
"IMPACT"

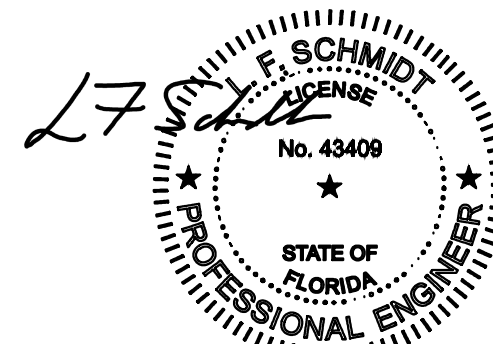
GENERAL NOTES:

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements 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.

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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



Digitally signed by Lyndon F
Schmidt
Date: 2023.09.27 10:33:32 -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

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

DATE: 6/5/17		PRODUCT:		ALL PHASE CUSTOM MILL SHOP "Impact" Wood Doors
SCALE: N.T.S.		PART OR ASSEMBLY:		
DWG. BY: JK		TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES		
CHK. BY: LFS		BY		REVISIONS
DRAWING NO.: FL-22393.10		NO. DATE		
SHEET 1 OF 13		3 9/27/23 UPDATE TO 8TH ED. (2023) FBC LFS		
		2 9/02/20 UPDATE TO 7TH ED. (2020) FBC LFS		
		1 10/12/17 UPDATE TO 6TH ED. (2017) FBC JK		

2.25"

STILE

P1

Diagram illustrating the dimensions and options for a double-hung window:

- Overall Dimensions:**
 - 36" MAX. PANEL WIDTH
 - 120" MAX. PANEL HEIGHT
 - 73.75" MAX. D.L.O. HEIGHT (Distance from Top of Window to Top of Sill)
 - 22.75" MAX. D.L.O. WIDTH (Distance from Side of Window to Side of Sill)
- Options:**
 - Top Sash:**
 - Option 3/2 (Top/Bottom)
 - Option 22.75" MAX. D.L.O. WIDTH (Side-to-side)
 - Option G1 (Glazed or Opaque)
 - Option X (X-Frame)
 - Bottom Sash:**
 - Option 2/2 (Top/Bottom)
 - Option OPAQUE (Bottom)
 - Bottom Panel:**
 - Option 4/2 (Top/Bottom)
 - 3/4 PANEL/LITE (Bottom)

Diagram illustrating the dimensions and labels for a full panel/lite:

- 36" MAX. PANEL WIDTH**: Dimension across the top of the panel.
- 102.75" MAX. D.L.O. HEIGHT**: Dimension along the left side of the panel.
- 22.75" MAX. D.L.O. WIDTH**: Dimension across the middle of the panel.
- Labels and Markings**:
 - 3/2**: Label in a circle at the top center.
 - 1/2**: Label in a circle on the left side.
 - G2**: Label in a circle in the center.
 - GLAZED OR OPAQUE**: Text below the G2 label.
 - X**: Large letter 'X' below the text.
 - 5/2**: Label in a circle at the bottom center.
- FULL PANEL/LITE**: Label at the bottom of the diagram.

Technical drawing of a wooden railing assembly, showing two views: a side elevation and a cross-section.

Side Elevation View (Left):

- Overall height: 10.625"
- Labels: MID RAIL, BOTTOM RAIL
- Callout: P1 (pointing to the bottom rail assembly)

Cross-Section View (Right):

- Overall width: 7.25"
- Labels: MID RAIL, BOTTOM RAIL
- Callout: G1 (pointing to the top rail assembly)
- Callout: P1 (pointing to the bottom rail assembly)
- Callout: 5/8" Ø x 4" DOWELS (TYP.) (pointing to the dowels securing the rails)
- Overall width dimension: 2.25"

6.625"

TOP RAIL

G1 G2

3
2 **VERTICAL CROSS SECTION**

10.625"

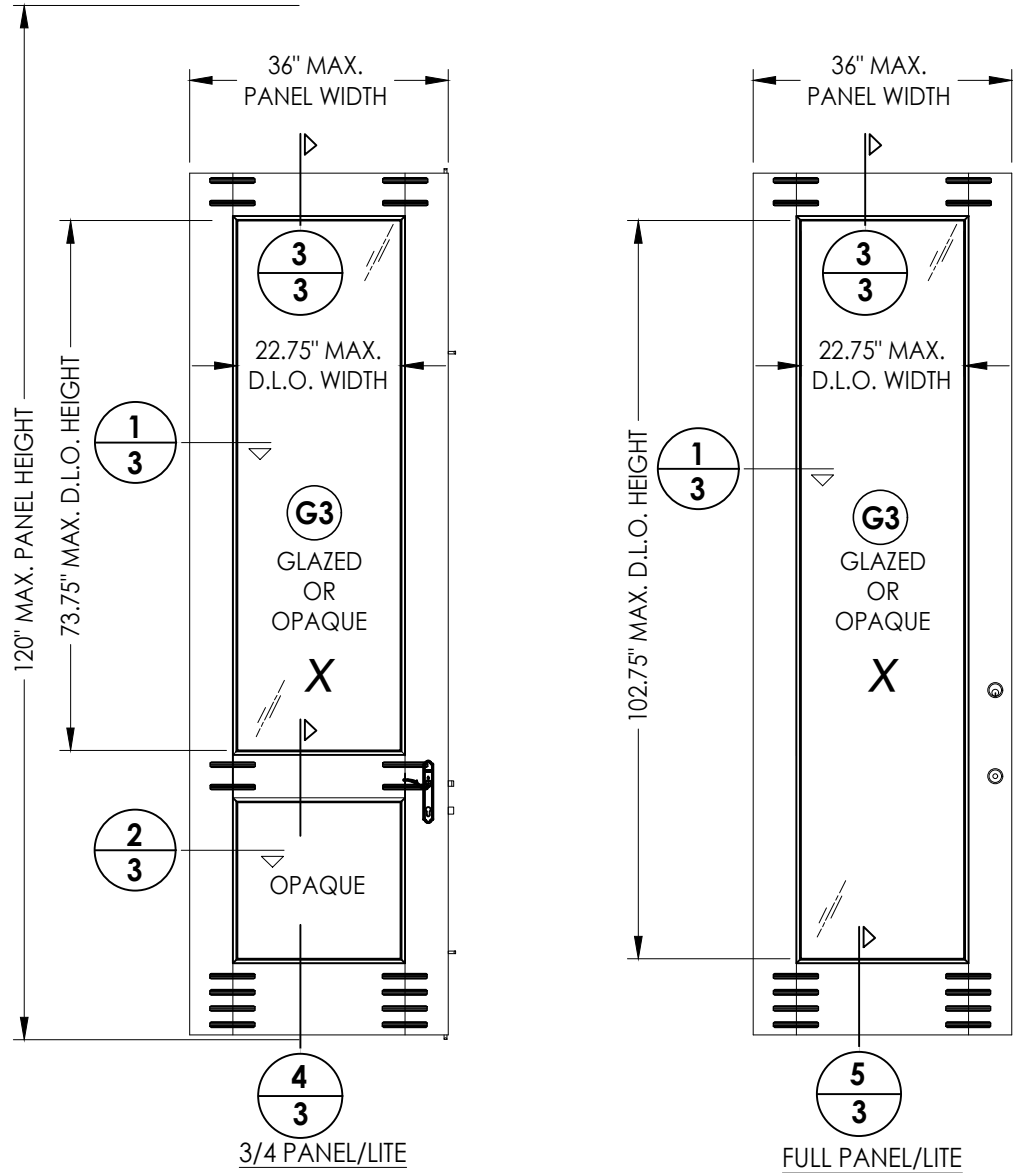
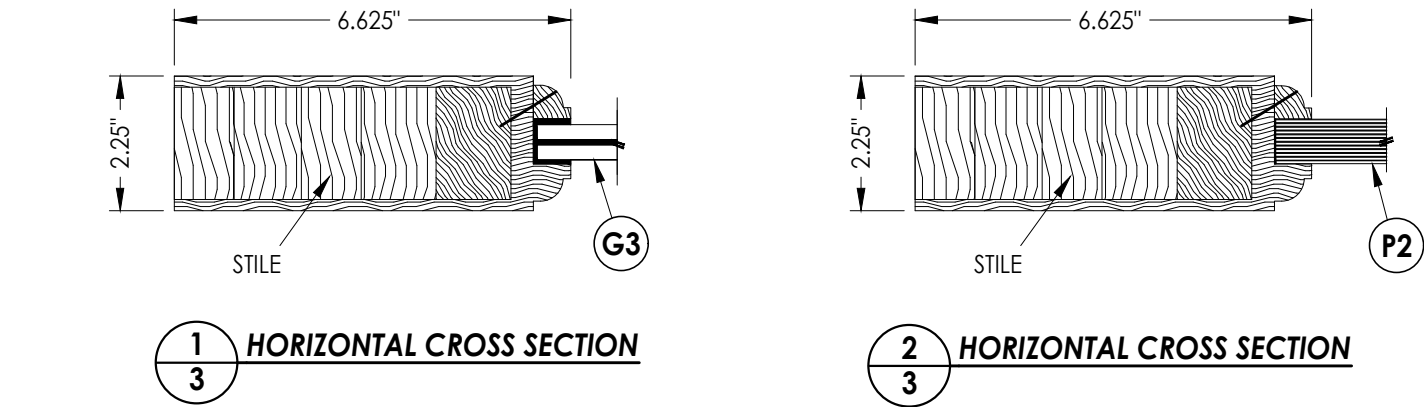
G2

BOTTOM RAIL

2.25"

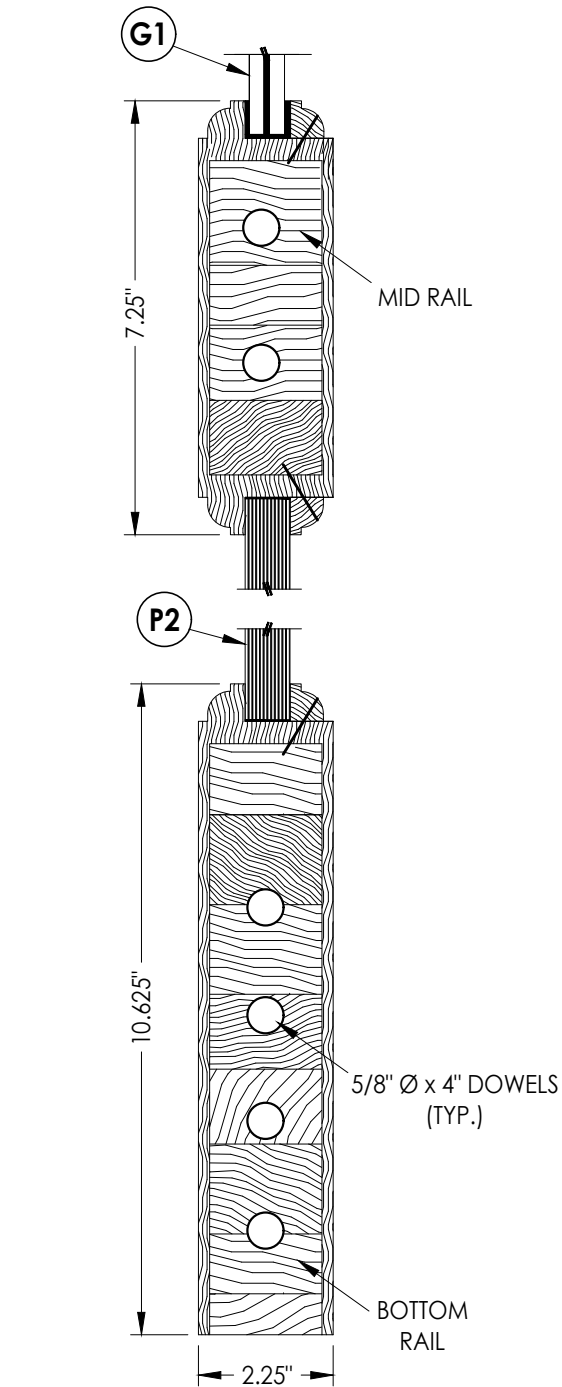
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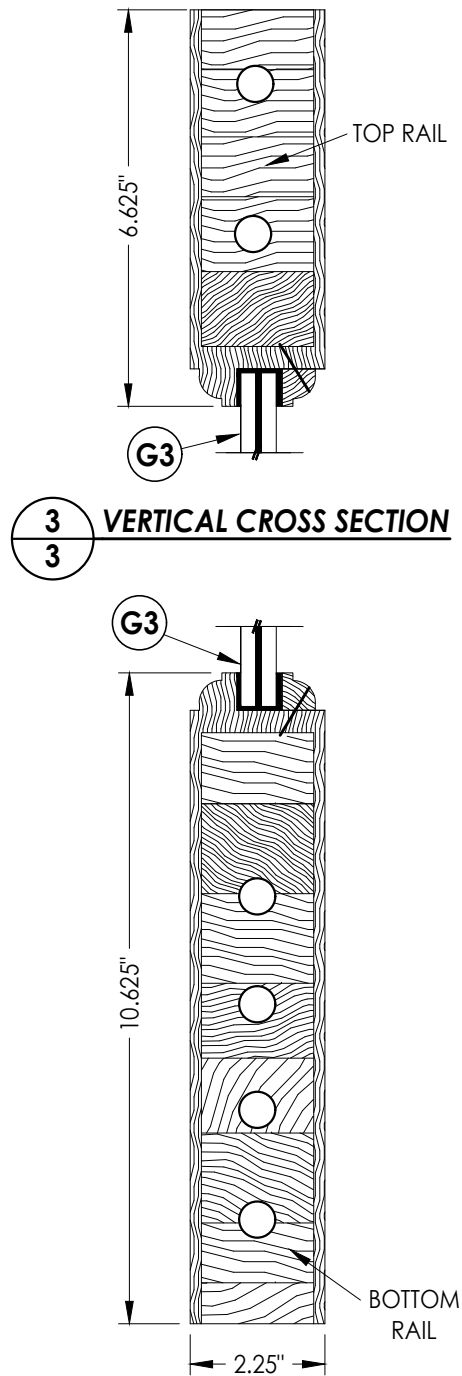


41 WOOD DOOR PANEL (3'-0")
Glazed or Opaque

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.



4 VERTICAL CROSS SECTION



3 VERTICAL CROSS SECTION

5 VERTICAL CROSS SECTION

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

PRODUCT:
ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors

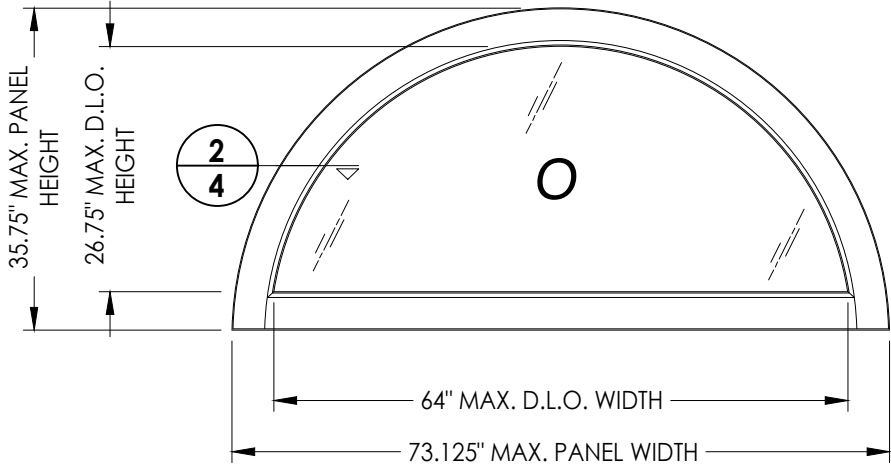
NO.	DATE	REVISIONS
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1	10/12/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 6/5/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-22393.10
SHEET 3 OF 13

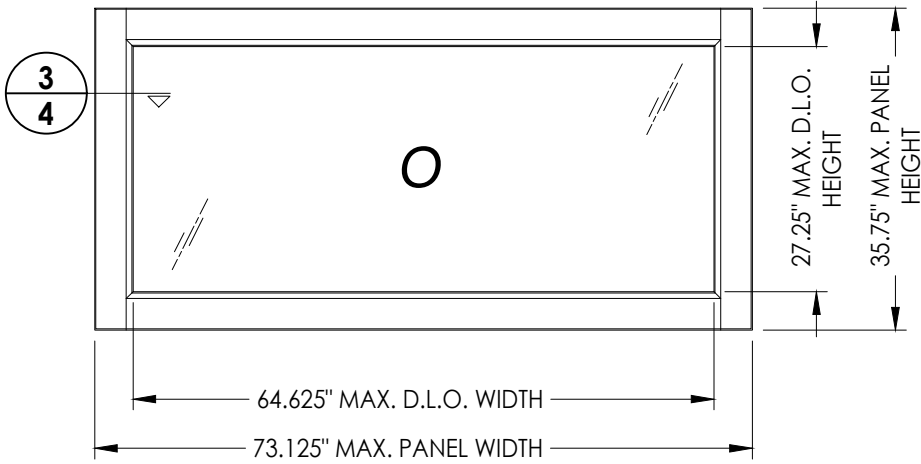
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NOTE:
1. ALL FRAME CORNERS SECURED WITH (1) 1/4" X 6" LAG SCREW.

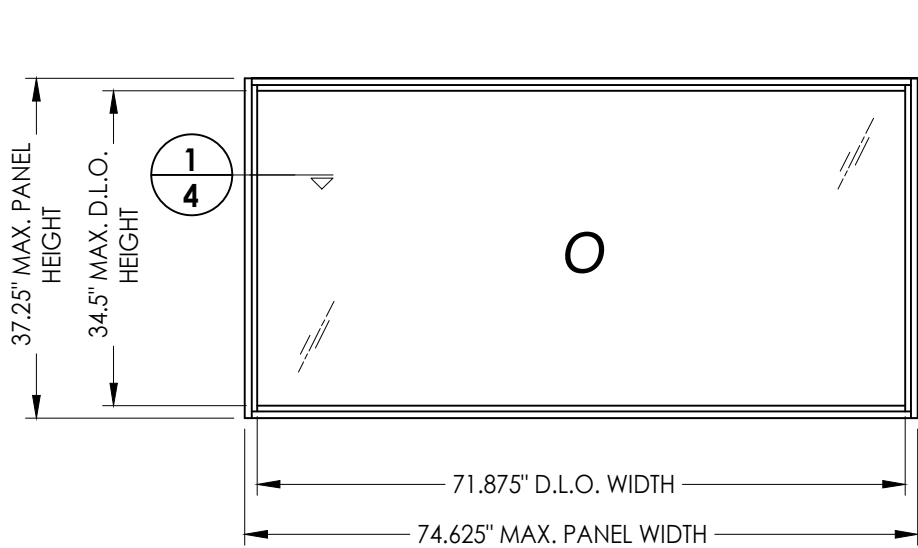


71 WOOD TRANSOM PANEL

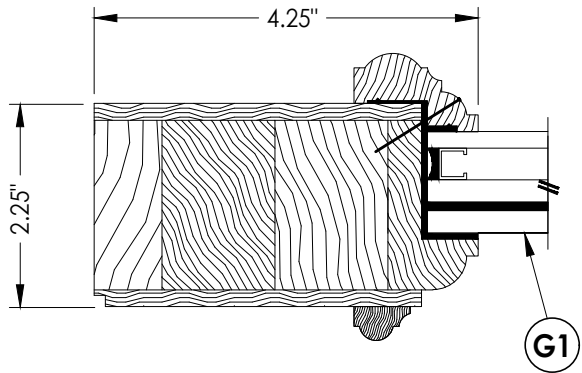
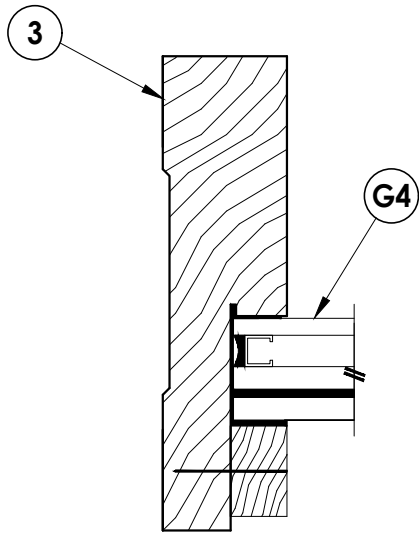


70 WOOD TRANSOM PANEL

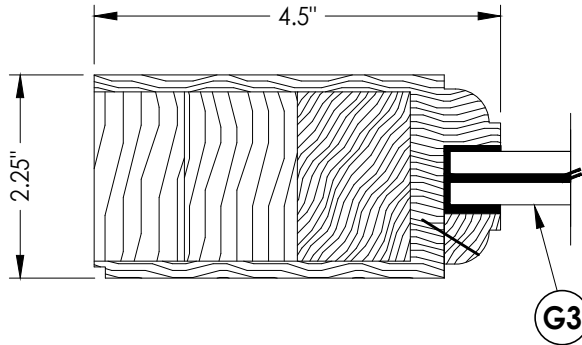
70 WOOD TRANSOM PANEL
DIRECT SET



1/4 HORIZONTAL CROSS SECTION



3/4 HORIZONTAL CROSS SECTION



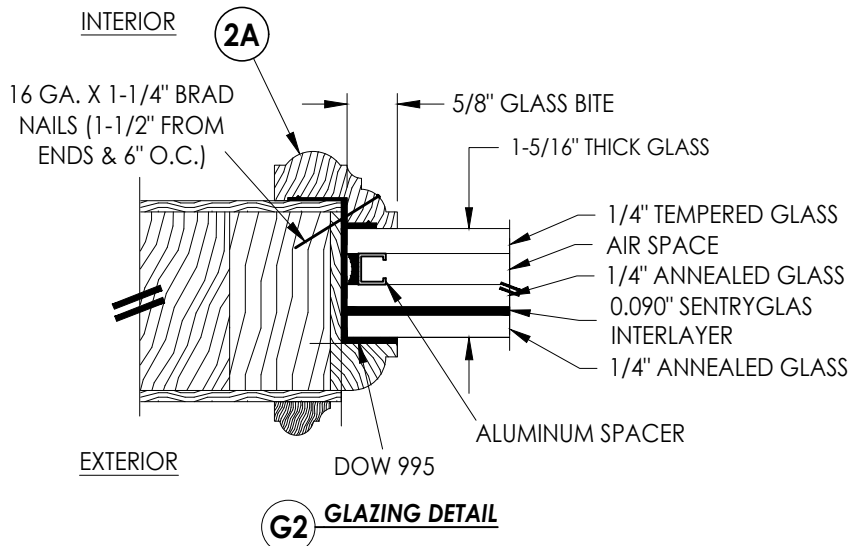
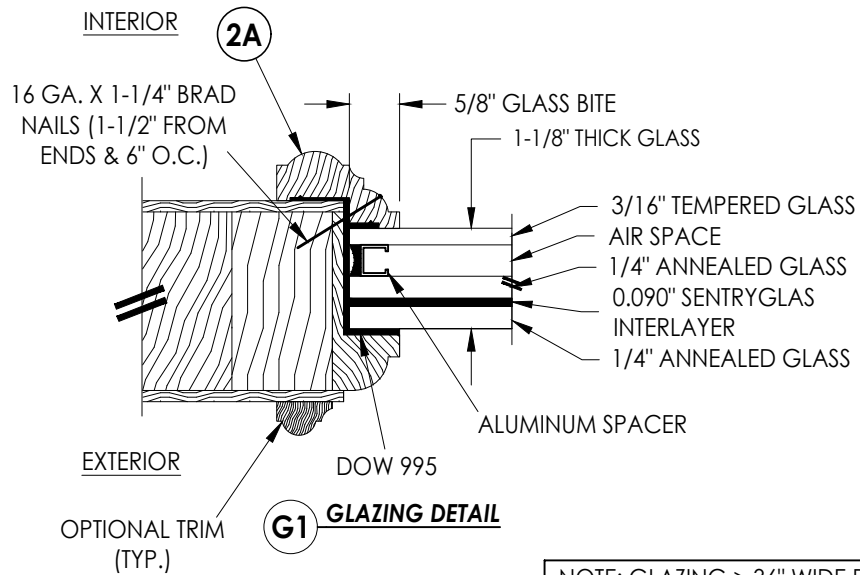
2/4 HORIZONTAL CROSS SECTION

DATE:	6/5/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-22393.10
SHEET	4 OF 13

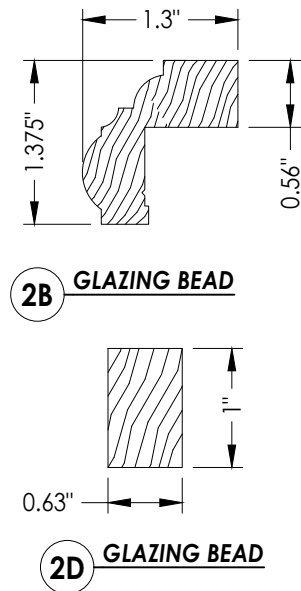
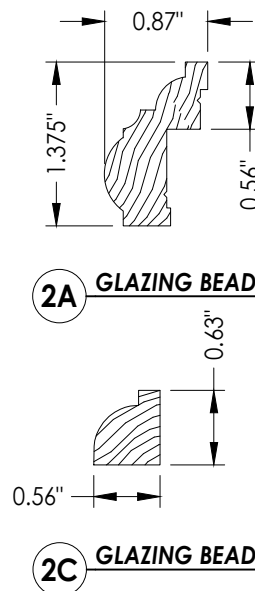
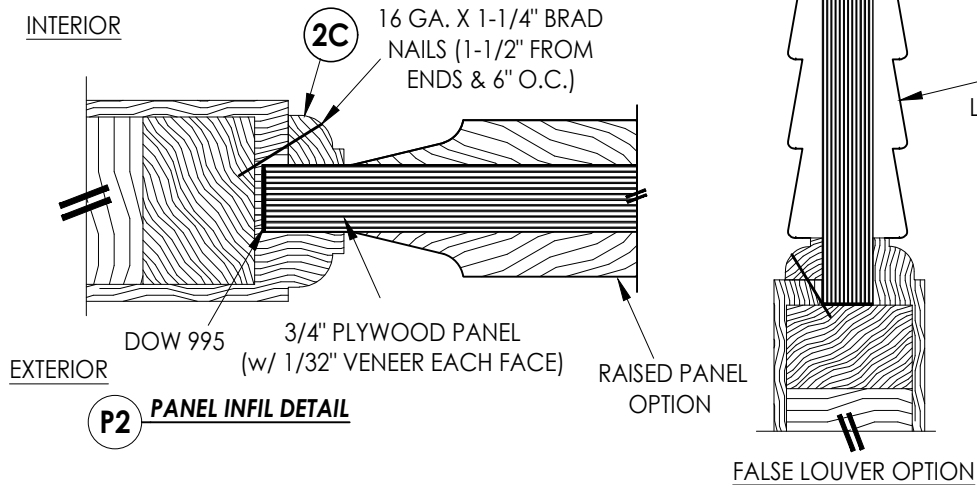
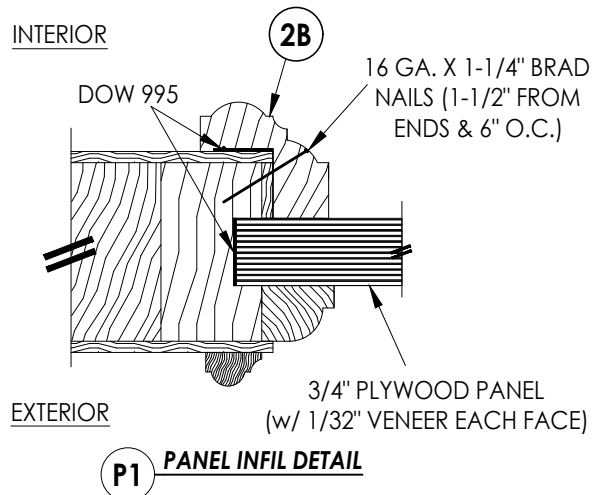
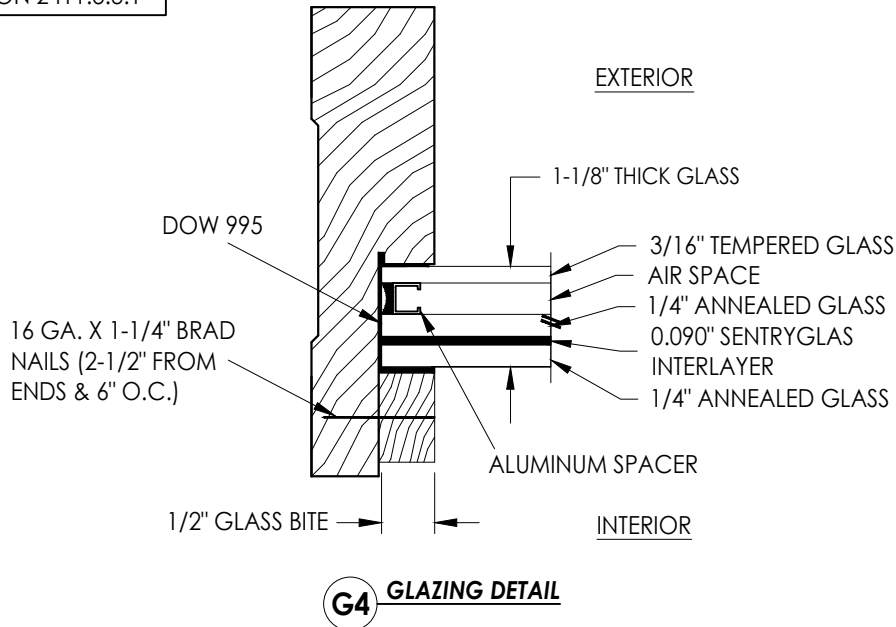
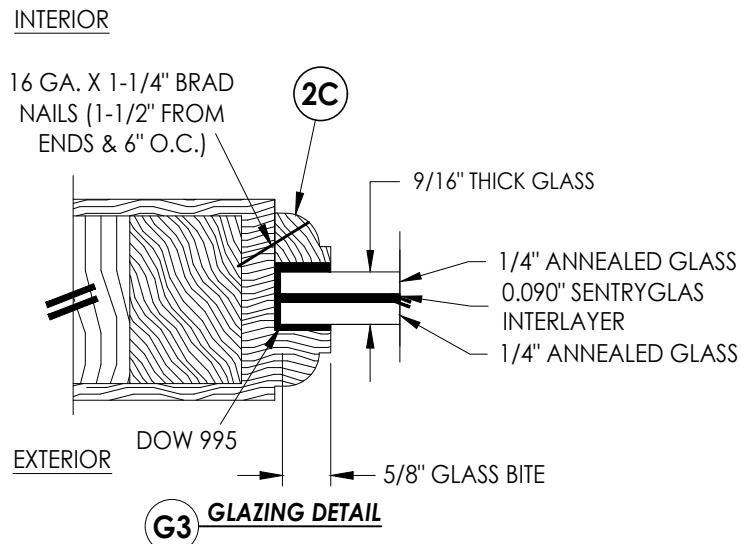
PRODUCT:	ALL PHASE CUSTOM MILL SHOP "Impact" Wood Doors
PART OR ASSEMBLY:	TRANSOM PANEL DETAILS

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

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



Documents Prepared By:
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P.E. No. 43409

PRODUCT:
ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors

PART OR ASSEMBLY:
GLAZING & PANEL INFIL
DETAILS

NO.	DATE	REVISIONS
3	9/27/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/02/20	UPDATE TO 7TH ED. (2020) FBC LFS
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DWG. BY: JK

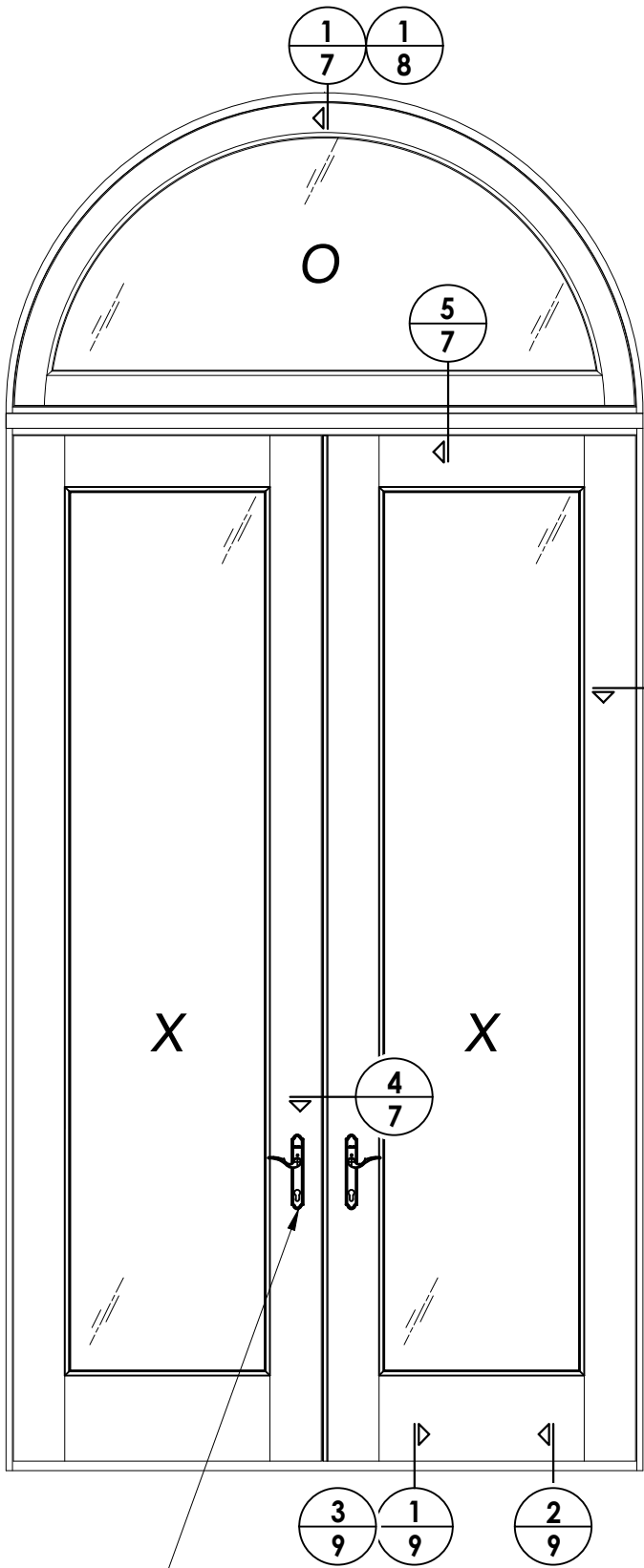
CHK. BY: LFS

DRAWING NO.:
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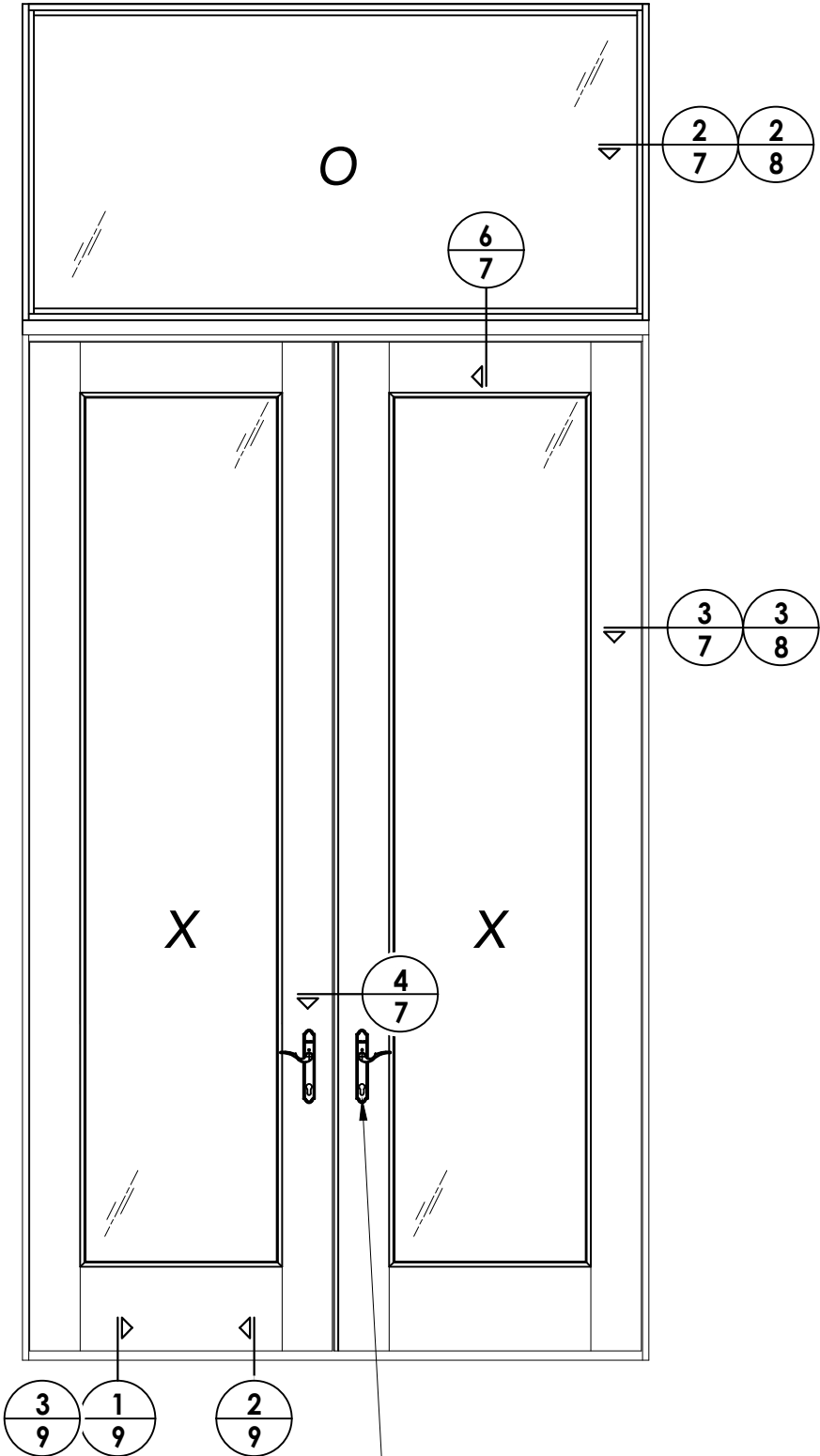
SHEET 5 OF 13

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FBPE Registry No. 9813

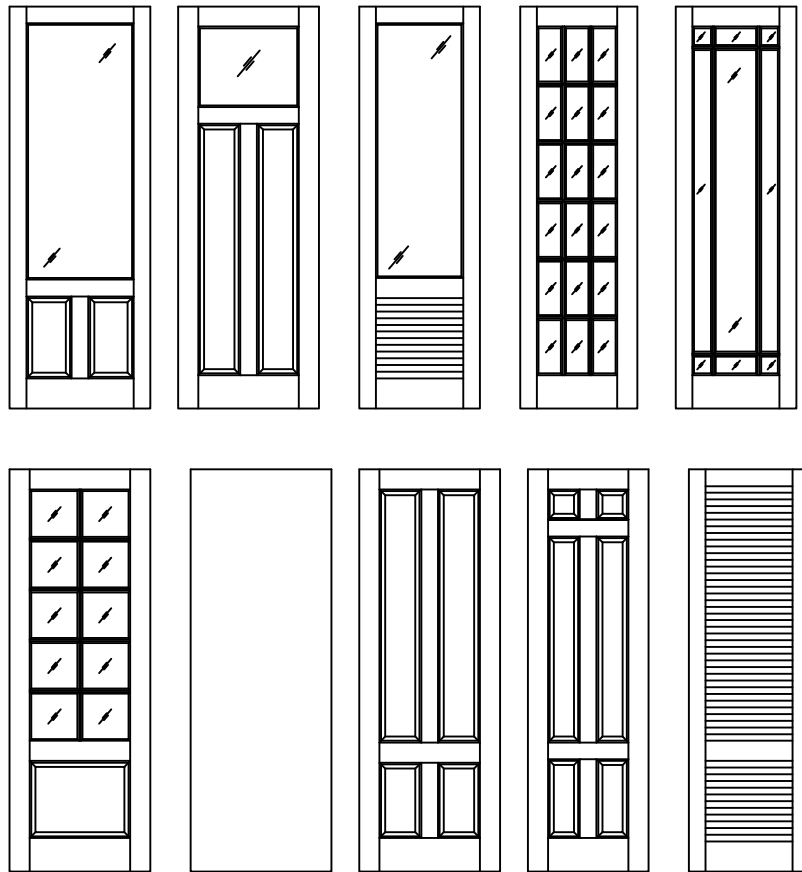
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SEE HARDWARE
CHART



SEE HARDWARE
CHART



ALL PHASE CUSTOM MILL SHOP Door Panel Options

Panel options shown are for illustration and are representative only.
Surface applied muntins are used for simulated divided lites shown.

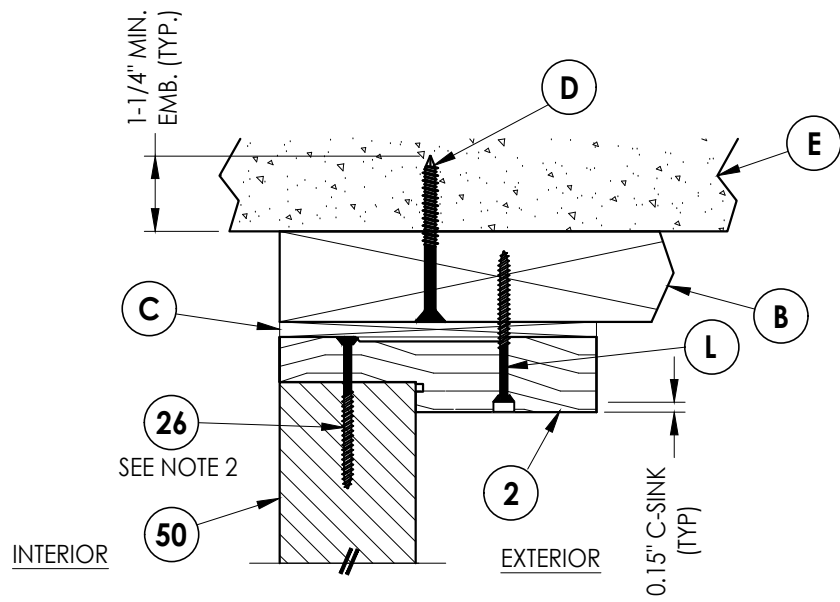
HARDWARE TABLE	
MANUFACTURER	MODEL
HOPPE	MULTIPOINT HARDWARE: HLS 9000 SERIES MULTIPOINT LOCK ACTIVE: ROUNDBOLT/SHOOTBOLT (5-PT.) INACTIVE: SHOOTBOLT (2-PT.)

PRODUCT:		PART OR ASSEMBLY:	
ALL PHASE CUSTOM MILL SHOP		ELEVATIONS	
Impact Wood Doors			
		NO.	DATE
		3	9/27/23
		2	9/02/20
		1	10/12/17
		JK	FBC
		BY	JK
		REVISIONS	
DATE:		6/5/17	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-22393.10	
SHEET		6 OF 13	

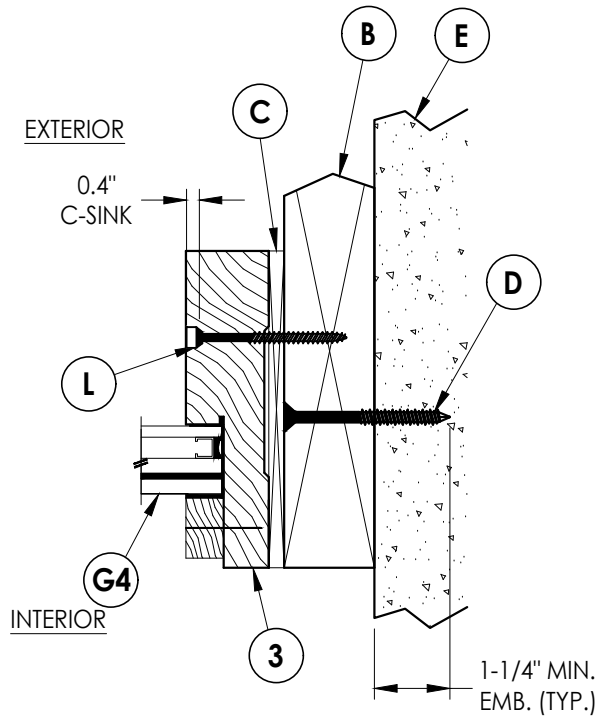
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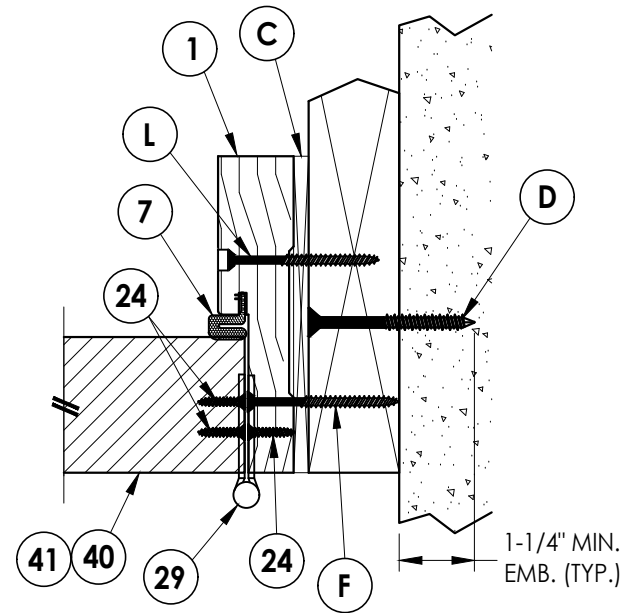
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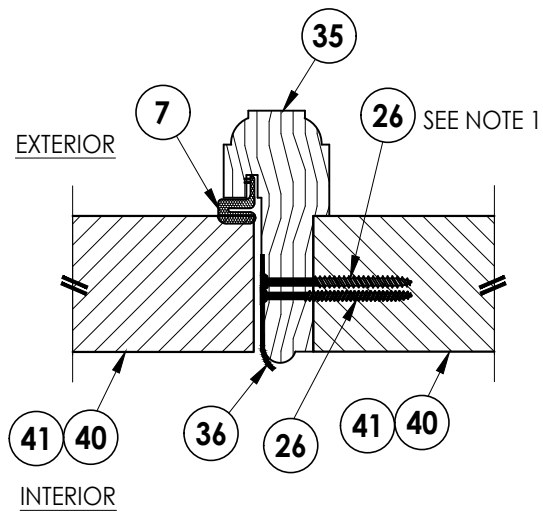
1
7 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



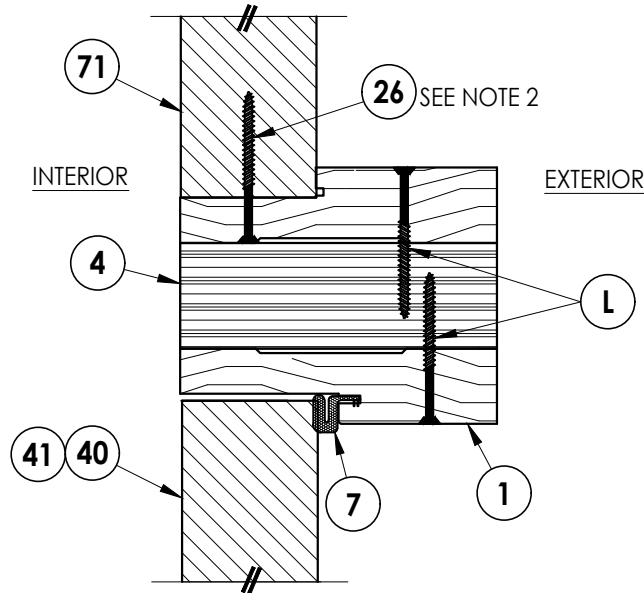
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7 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



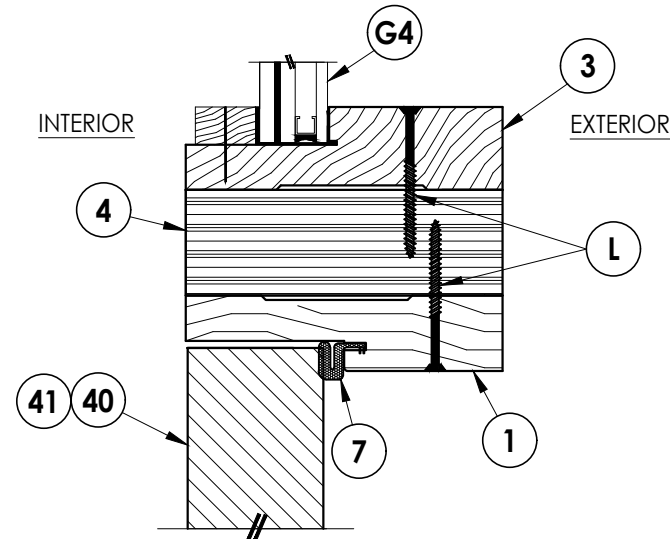
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7 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



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).

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

PRODUCT:
ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors

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

NO.	DATE	REVISIONS
3	9/27/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/02/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 6/5/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

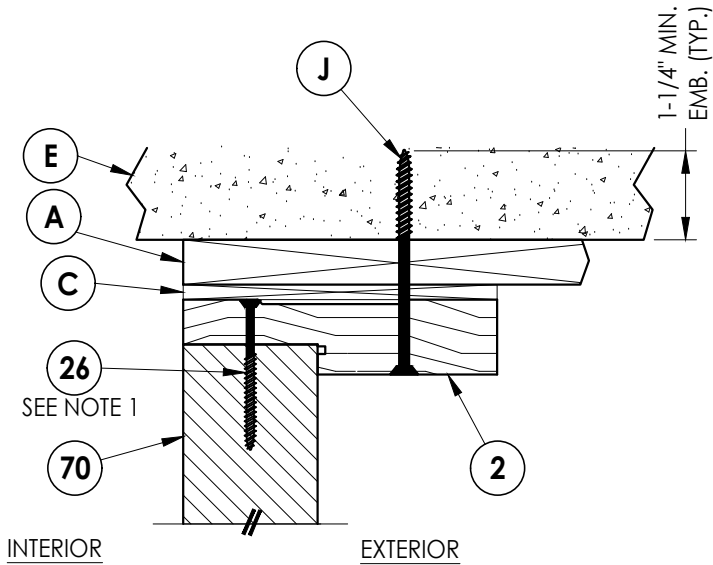
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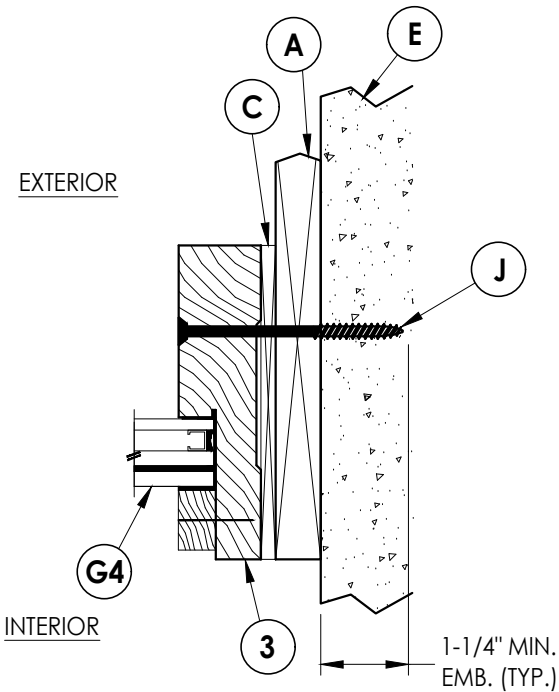
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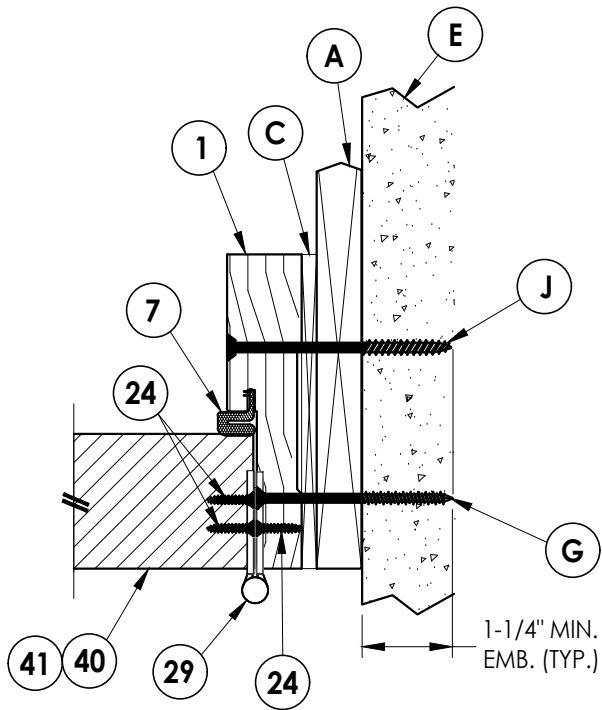
NOTES:
1. Item #26 located 4" from each end & 1 at the center line (3 total).



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



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



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

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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (1X BUCK)

NO.	DATE	REVISIONS
3	9/27/23	UPDATE TO 8TH ED. (2023) FBC LFS
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1	10/12/17	UPDATE TO 6TH ED. (2017) FBC JK
NO.	DATE	BY

DATE: 6/5/17

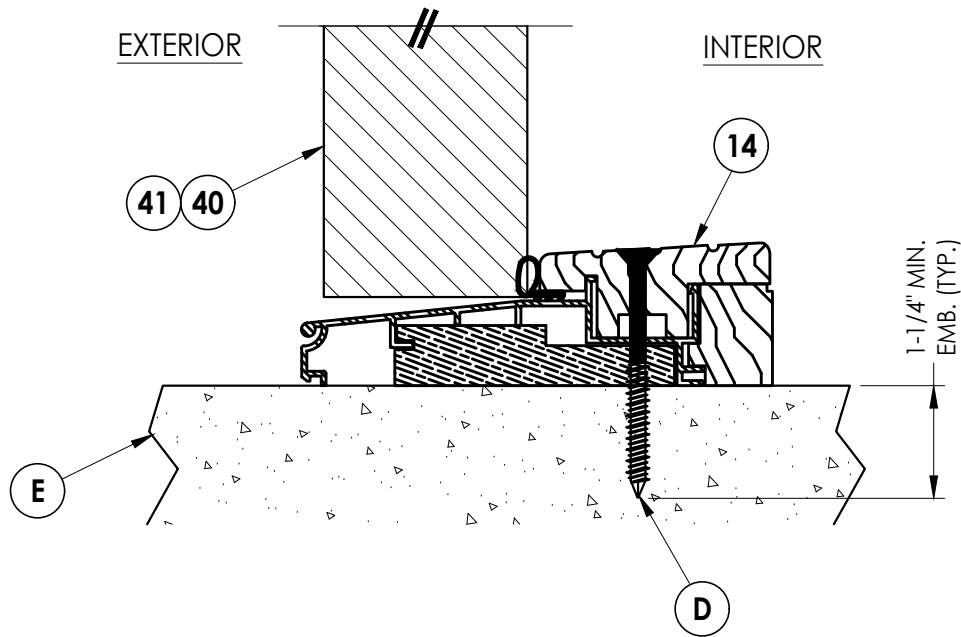
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DWG. BY: JK

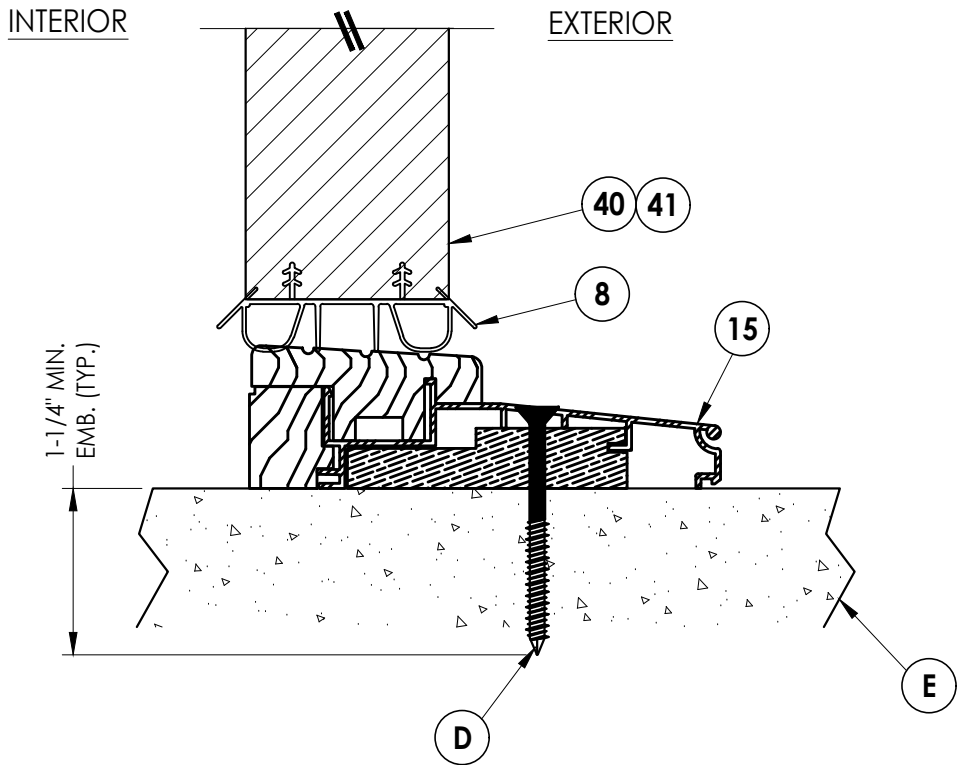
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DRAWING NO.:
FL-22393.10

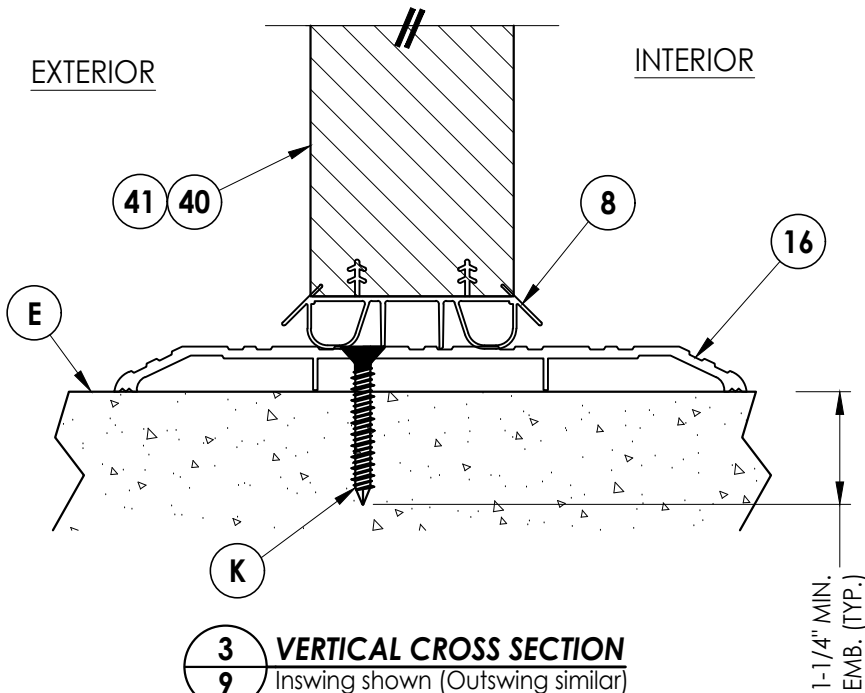
SHEET 8 OF 13



1
9 VERTICAL CROSS SECTION
Outswing



2
9 VERTICAL CROSS SECTION
Inswing

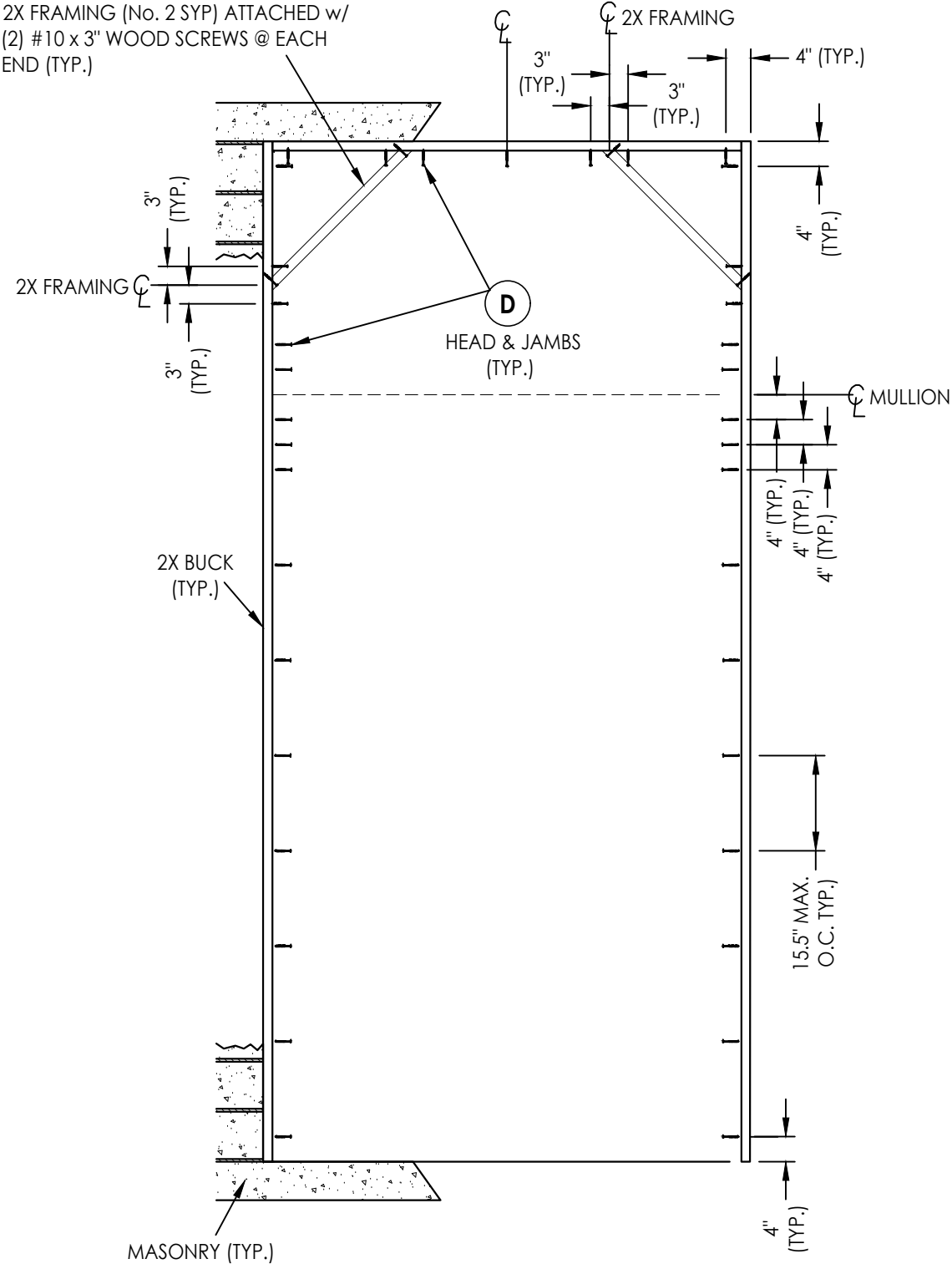


3
9 VERTICAL CROSS SECTION
Inswing shown (Outswing similar)

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PRODUCT:		ALL PHASE CUSTOM MILL SHOP "Impact" Wood Doors		PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS (THRESHOLD)	
3	9/27/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
2	9/02/20	UPDATE TO 7TH ED. (2020)	FBC	LFS			
1	10/12/17	UPDATE TO 6TH ED. (2017)	FBC	JK			
NO.	DATE						
				REVISIONS			
DATE:				6/5/17			
SCALE:				N.T.S.			
DWG. BY:				JK			
CHK. BY:				LFS			
DRAWING NO.:				FL-22393.10			
SHEET				9 OF 13			

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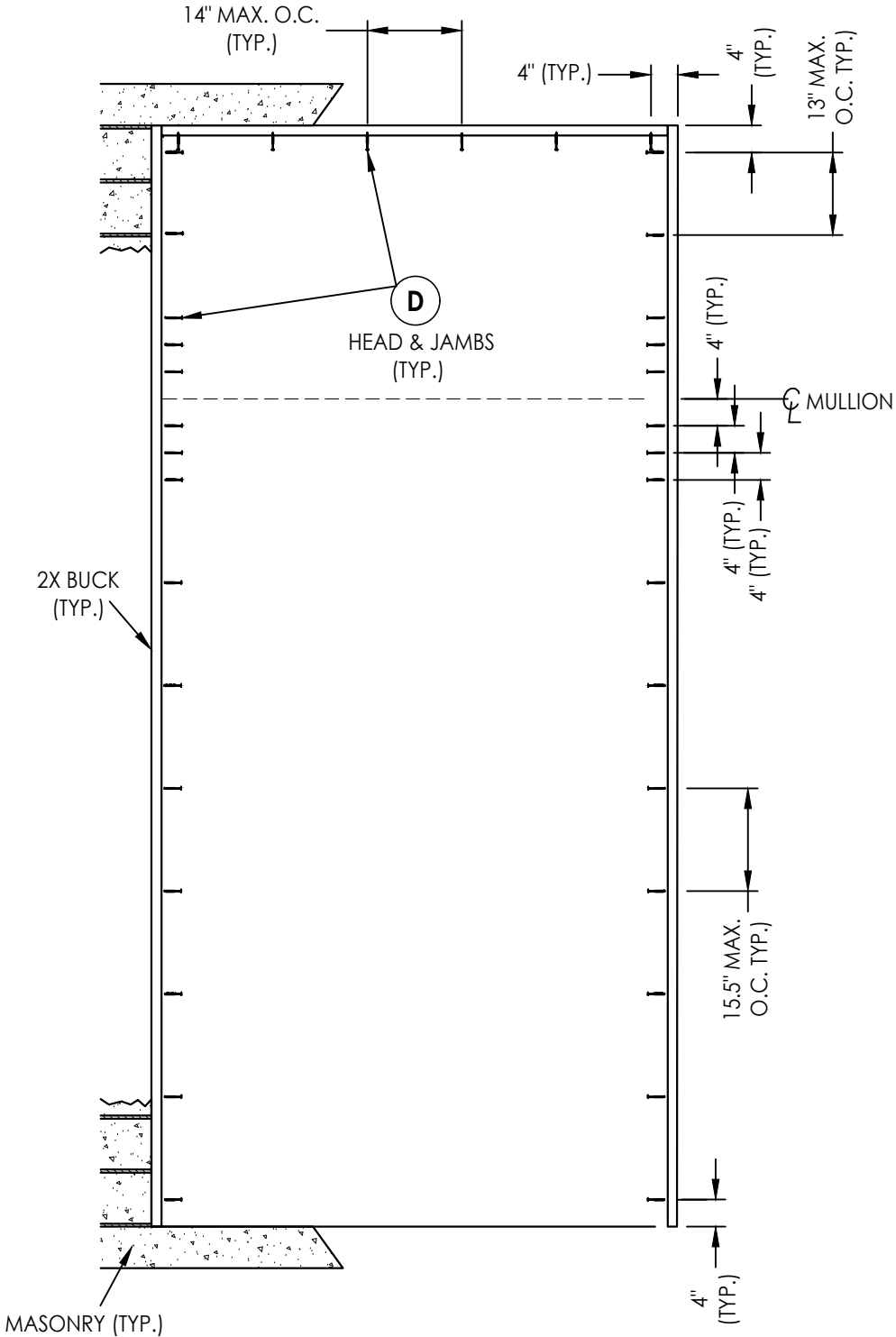
2X FRAMING (No. 2 SYP) ATTACHED w/
(2) #10 x 3" WOOD SCREWS @ EACH
END (TYP.)



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.

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



2X BUCK ANCHORING
O/XX

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ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors

PART OR ASSEMBLY:
BUCK ANCHORING

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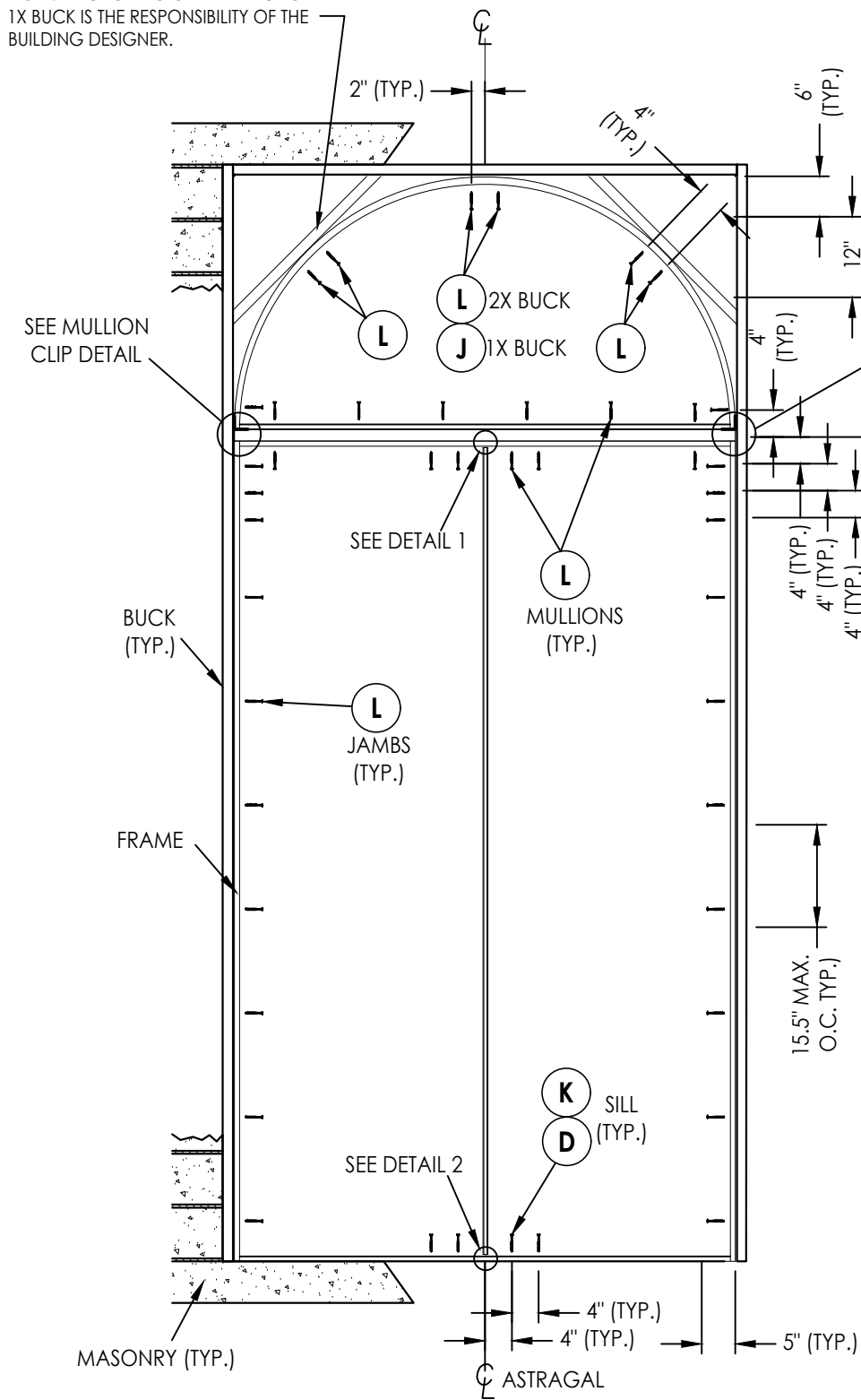
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SHEET 10 OF 13

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FBPE Registry No. 9813

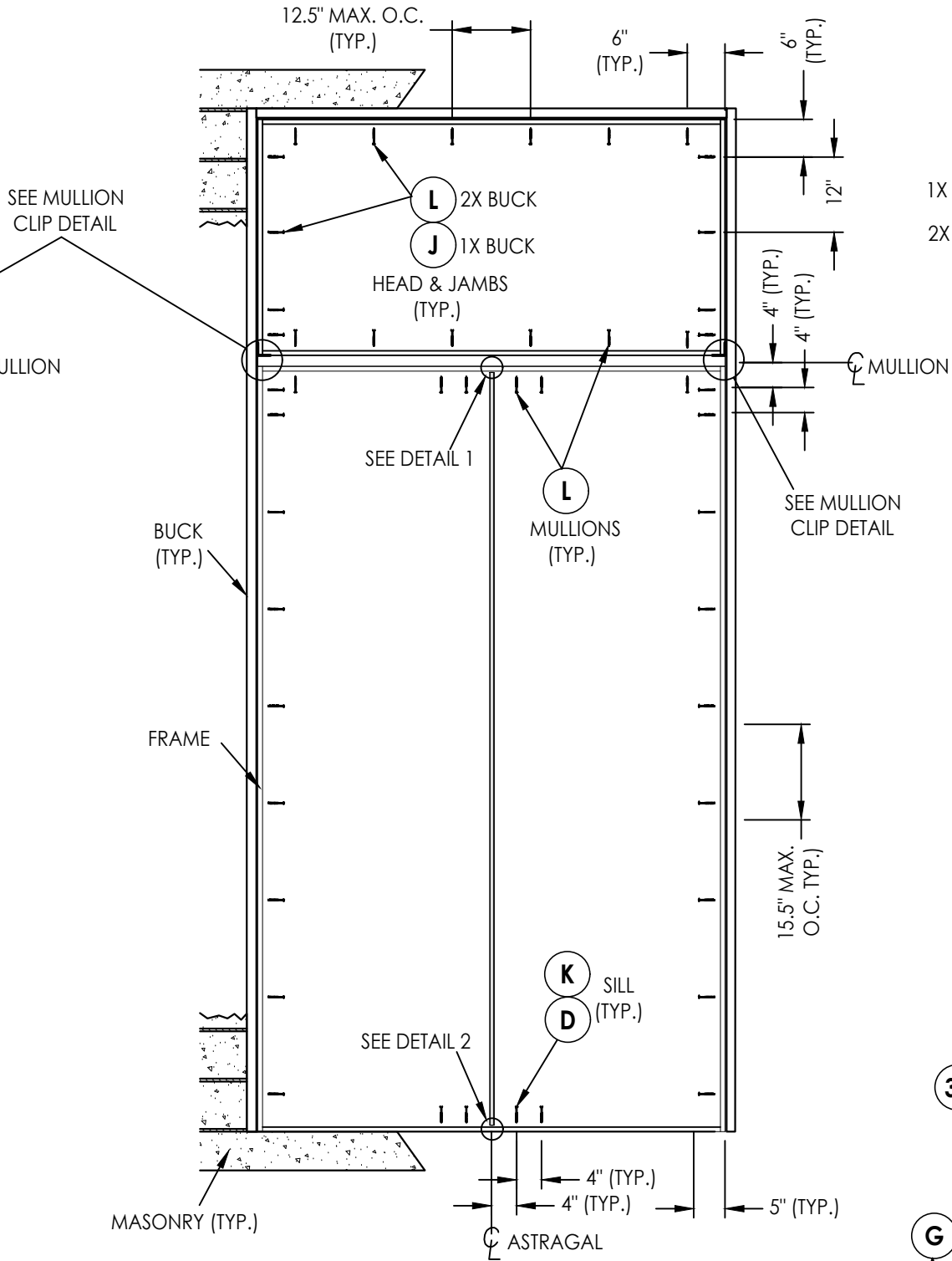
Z:\2023 FBC Drawings\All Phase Custom Mill Shop\FL-22393 R3\FL-22393.9-11.dwg

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

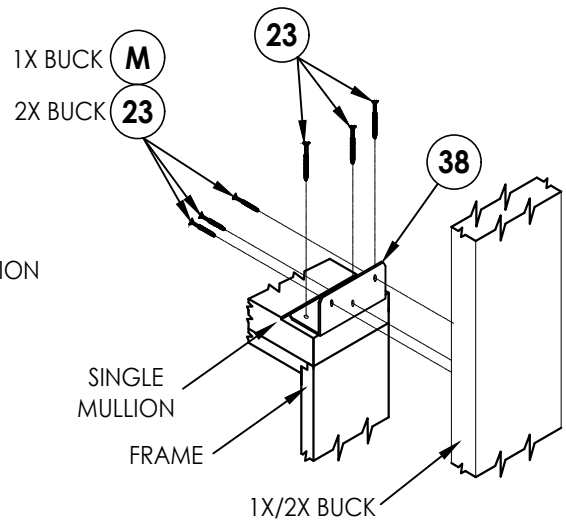


FRAME ANCHORING
O/XX (Arch Top Transom)

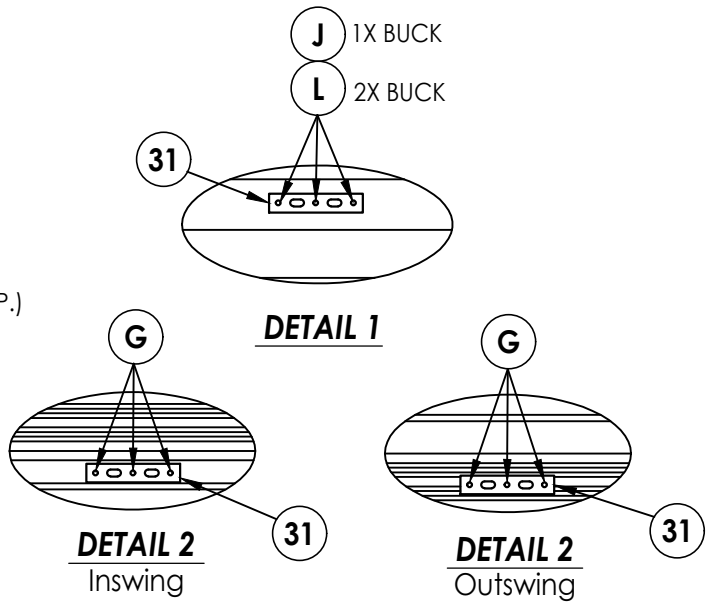
NOTE:
1. ALL FRAME CORNERS SECURED WITH (3) #8 X 2-1/2\"/>



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:
ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors

PART OR ASSEMBLY:
FRAME ANCHORING

REVISIONS		NO.	DATE	BY
3	9/27/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
2	9/02/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
1	10/12/17	UPDATE TO 6TH ED. (2017)	FBC	JK

DATE: 6/5/17

SCALE: N.T.S.

DWG. BY: JK

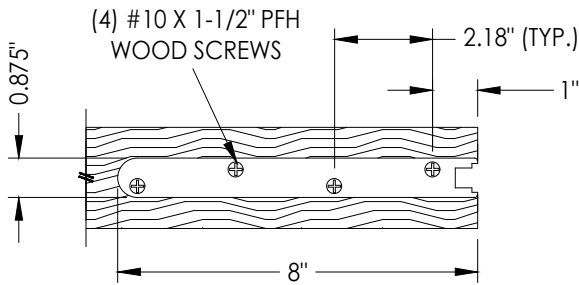
CHK. BY: LFS

DRAWING NO.:

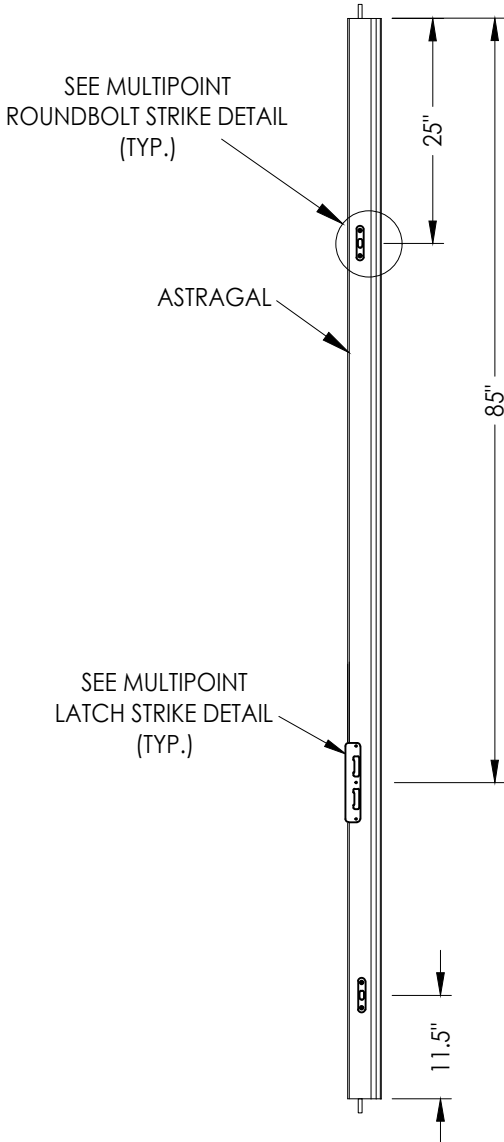
FL-22393.10

SHEET 11 OF 13

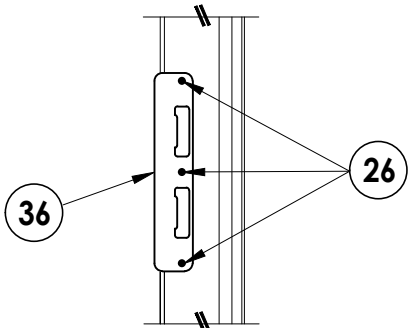
Z:\2023 FBC Drawings\All Phase Custom Mill Shop\FL-22393 R3\FL-22393.9-11.dwg



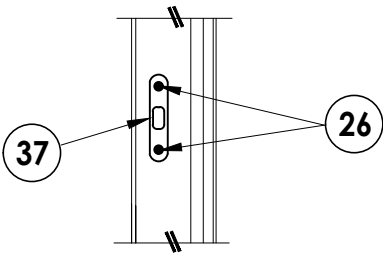
SHOOTBOLT REINFORCEMENT
AT TOP & BOTTOM OF DOOR PANEL
(1/8" THICK STEEL)



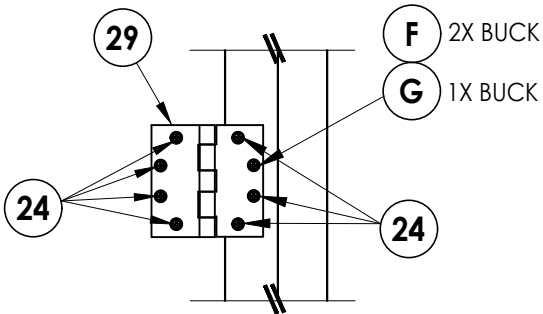
MULTIPOINT LOCK DETAILS



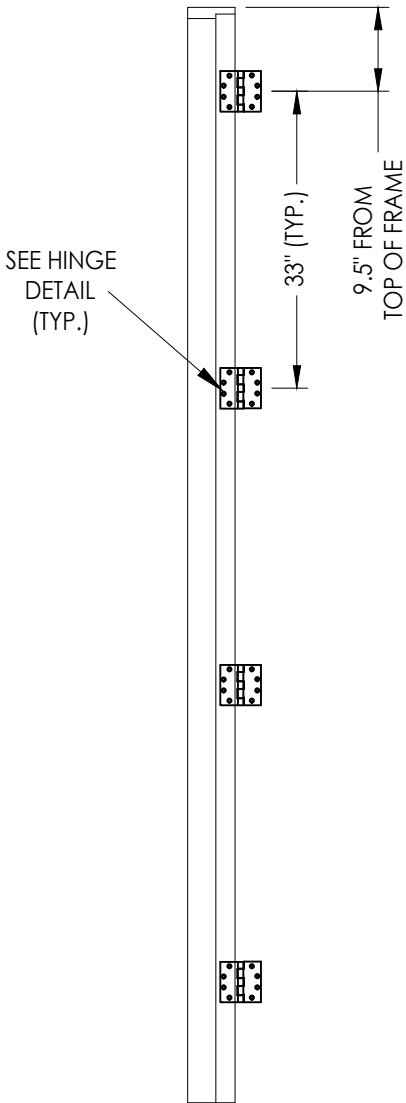
MULTIPOINT STRIKE DETAIL



MULTIPOINT ROUND BOLT STRIKE DETAIL



HINGE DETAIL



HINGE JAMB

NO.	DATE	REVISIONS
3	9/27/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/02/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017) FBC JK
NO.	DATE	BY

DATE: 6/5/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-22393.10

SHEET 12 OF 13

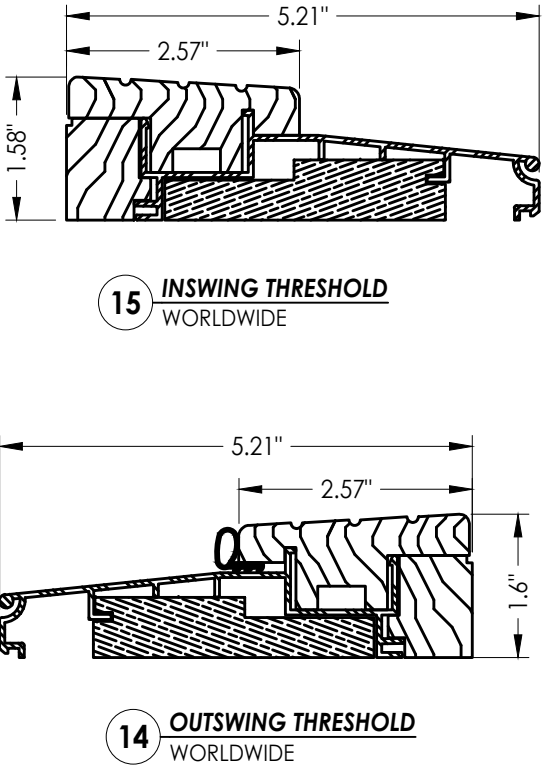
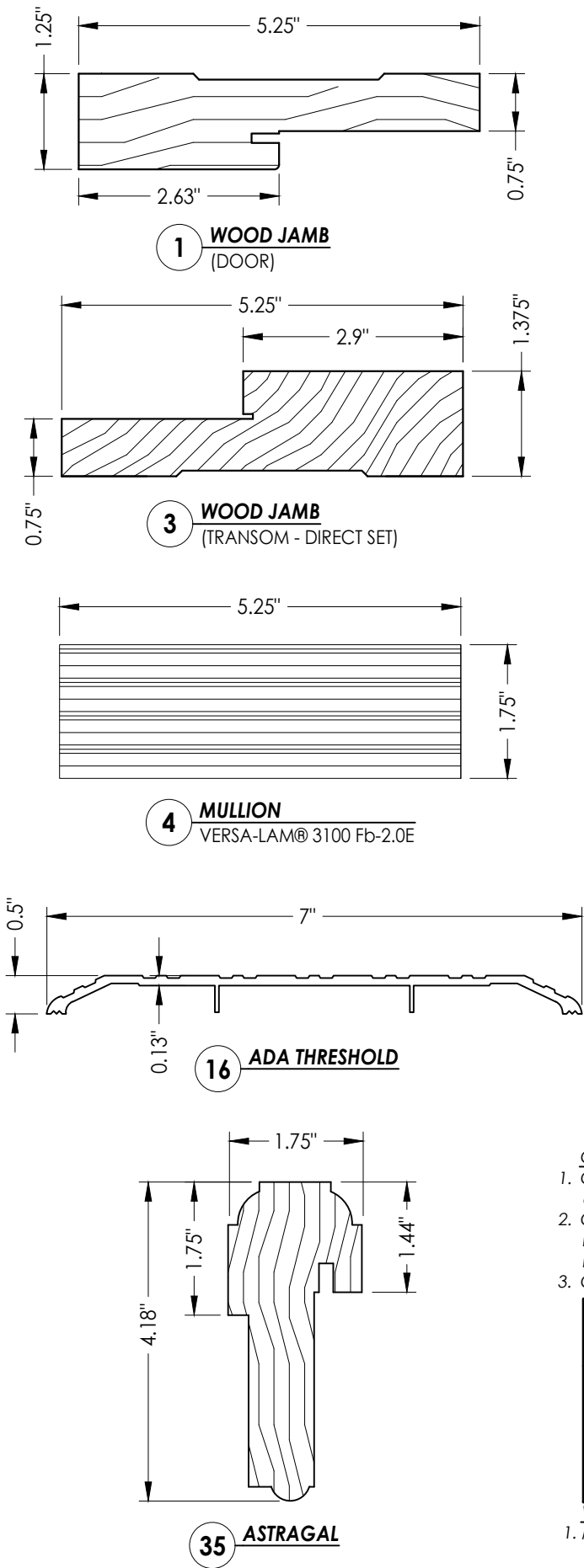
PRODUCT:	ALL PHASE CUSTOM MILL SHOP Impact Wood Doors
PART OR ASSEMBLY:	HARDWARE DETAILS

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:

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"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

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.

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: ALL PHASE CUSTOM MILL SHOP "Impact" Wood Doors		PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS	
3	9/27/23	UPDATE TO 8TH ED. (2023)	FBC LFS
2	9/02/20	UPDATE TO 7TH ED. (2020)	FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017)	FBC JK
NO.	DATE		BY
REVISIONS			
DATE: 6/5/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-22393.10			
SHEET 13 OF 13			