

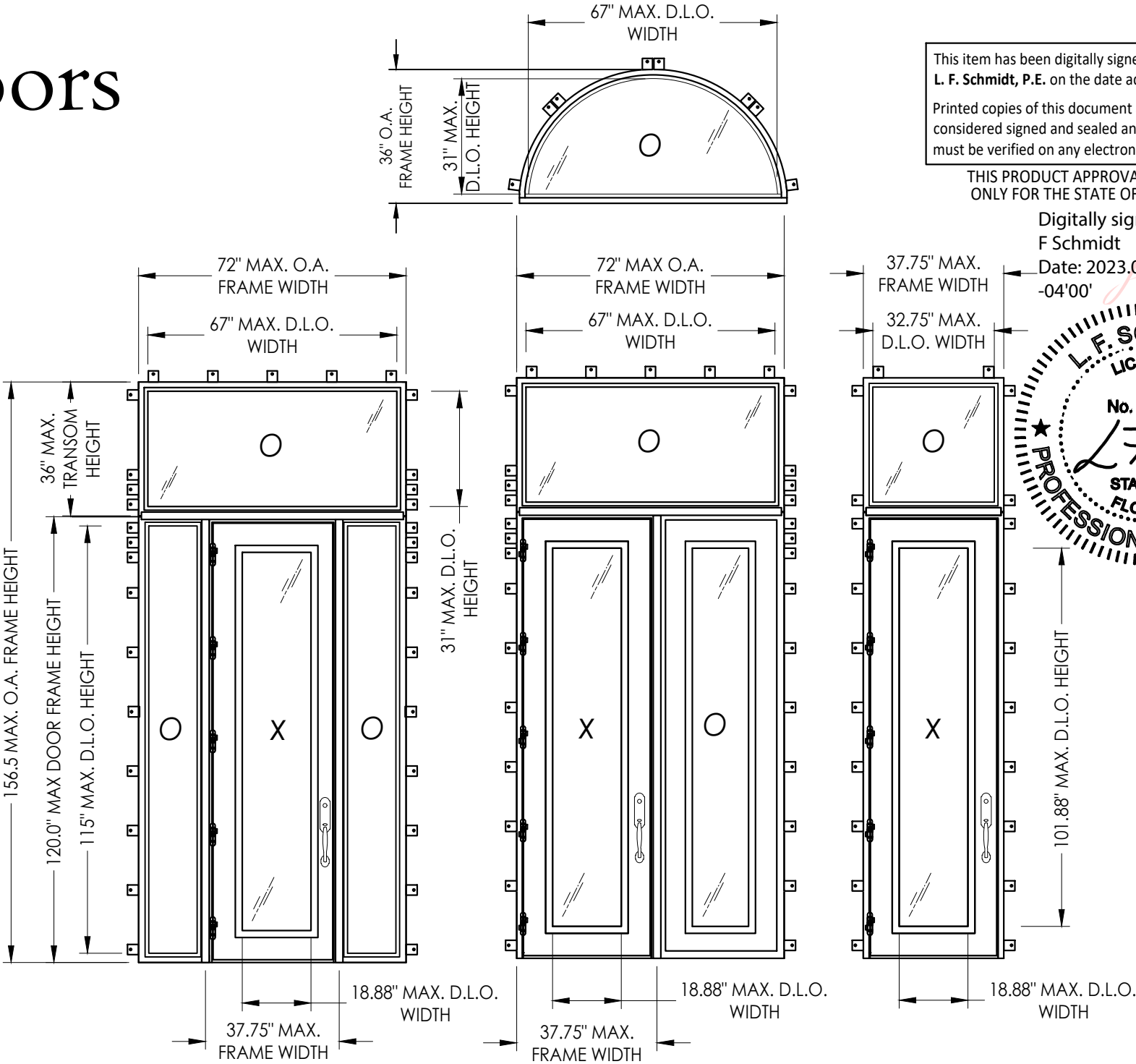
Clark Hall Iron Doors

GLAZED IRON SINGLE DOOR w/ TRANSOM w/ & w/out SIDELITES INSWING/OUTSWING "IMPACT"

GENERAL NOTES

- 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).
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- When used in the "HVHZ", this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
- For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
- This product does 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.
- All steel shall be protected as specified in Section 2222.6 of the FBC.

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7	Vertical cross sections
8	Buck anchoring
9	Frame anchoring
10	Frame anchoring
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12	Bill of materials & components

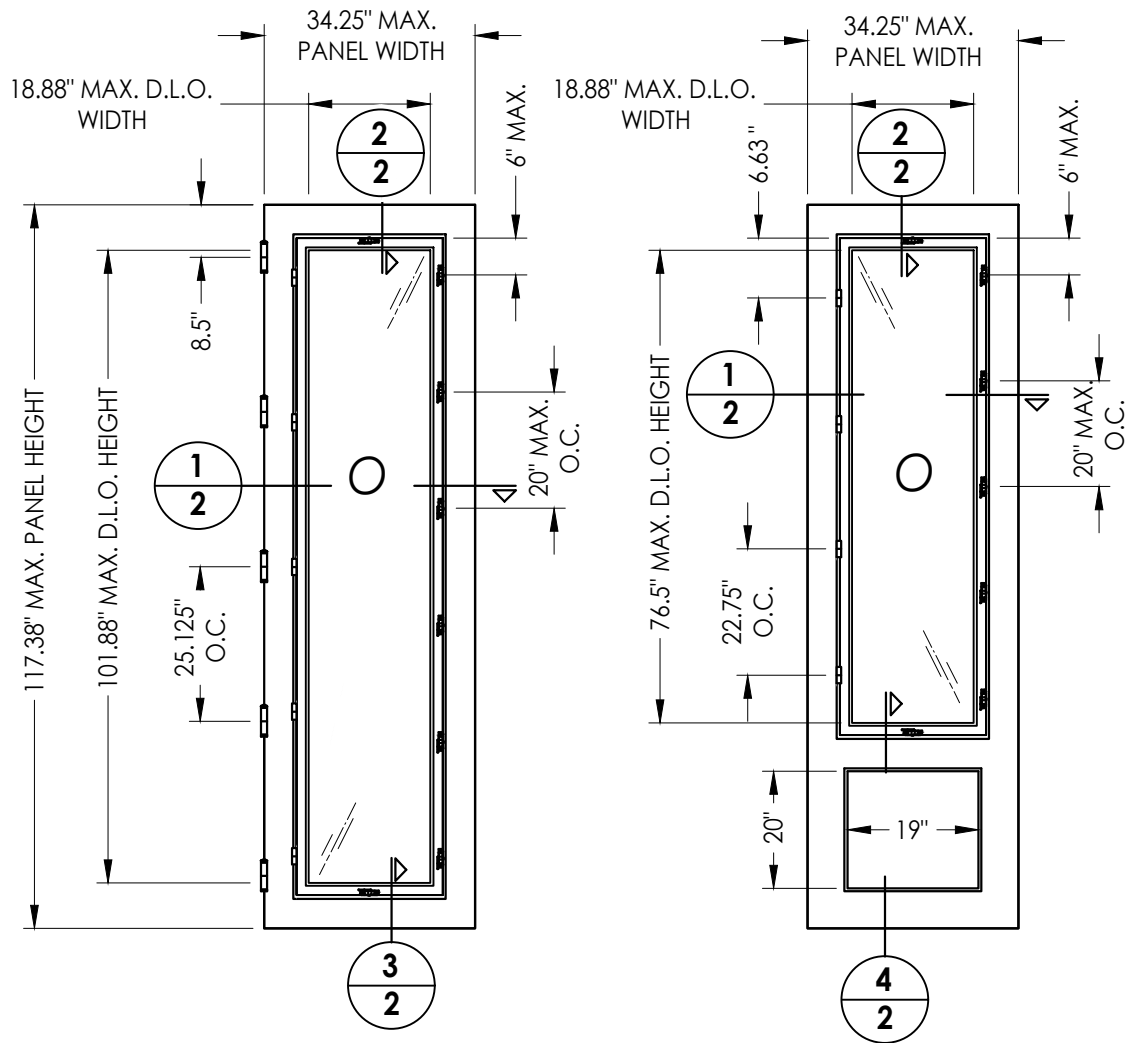


CONFIGURATION	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)			
		INSWING		OUTSWING	
		POS.	NEG.	POS.	NEG.
O X	37.75" x 156.5"	+65.0	-65.0	+75.0	-75.0
O OX or XO	72.0" x 156.5"	+65.0	-65.0	+75.0	-75.0
O OXO	72.0" x 156.5"	+65.0	-65.0	+75.0	-75.0

NOTE: See Sheets 4 & 5 for glazing and lock hardware design pressure limitations.

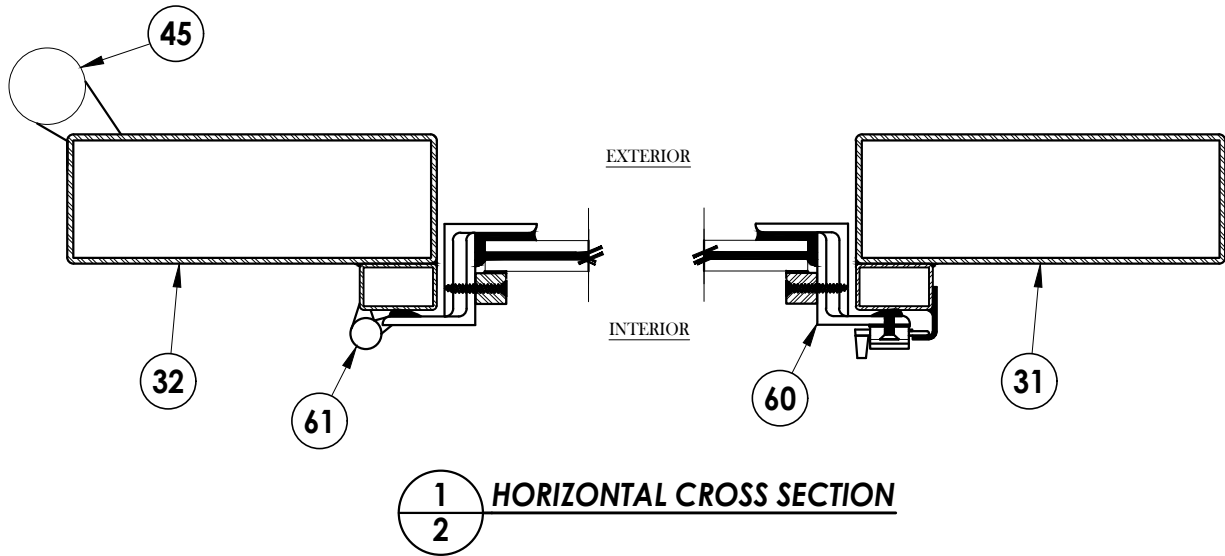
PRODUCT:		PART OR ASSEMBLY:	
CLARK HALL IRON DOORS		TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES	
DATE:	11/8/13	SCALE:	N.T.S.
DWG. BY:	JK	CHK. BY:	LFS
DRAWING NO.:	FL-16663.15	SHEET 1 OF 12	

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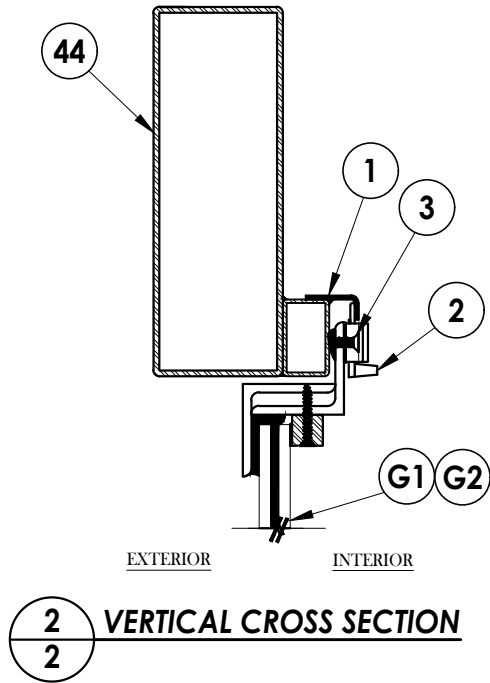


30 DOOR PANEL
w/ Operable Sash

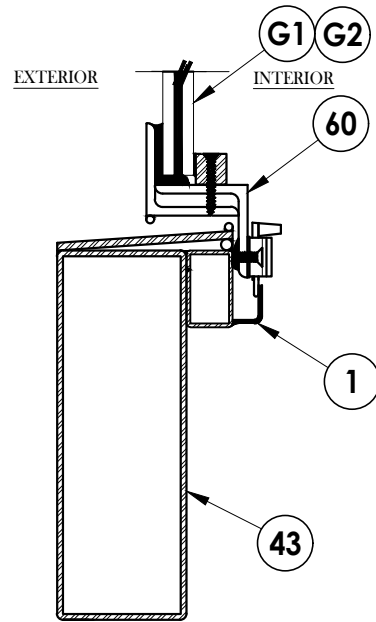
40 3/4 LITE DOOR PANEL
w/ Operable Sash



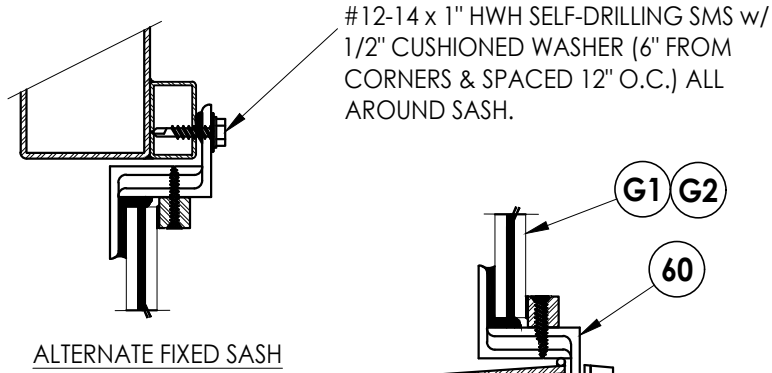
1 HORIZONTAL CROSS SECTION



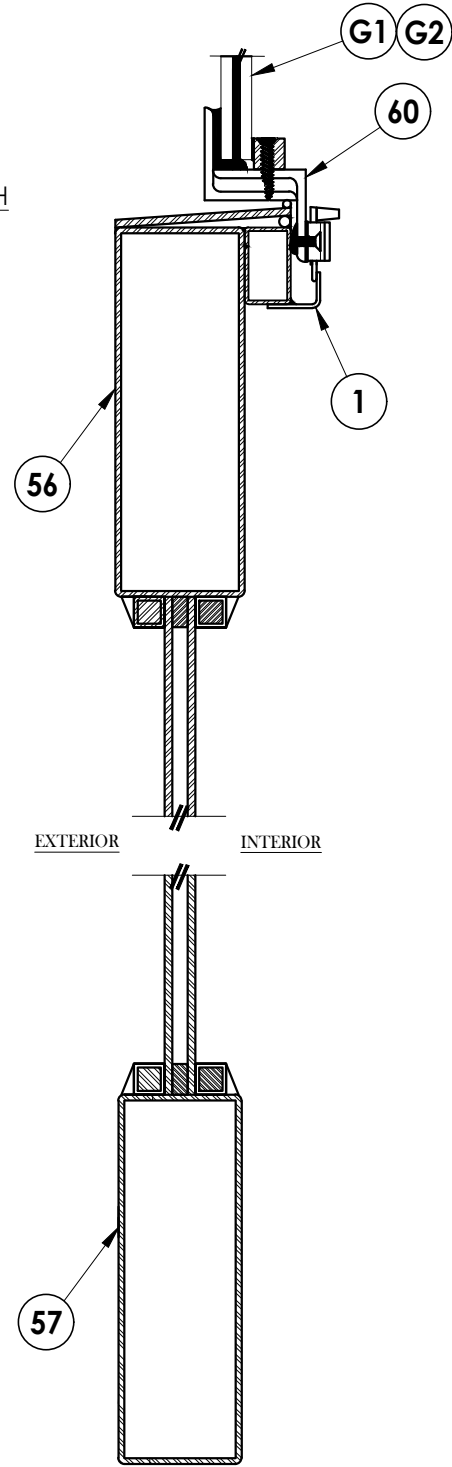
2 VERTICAL CROSS SECTION



3 VERTICAL CROSS SECTION



ALTERNATE FIXED SASH



4 VERTICAL CROSS SECTION

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: CLARK HALL IRON DOORS

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS			
		DATE	BY	REVISIONS	
4	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	9/09/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
2	8/30/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
1	8/17/15	UPDATE TO 5TH ED. (2014)	FBC	LFS	

DATE: 11/8/13

SCALE: N.T.S.

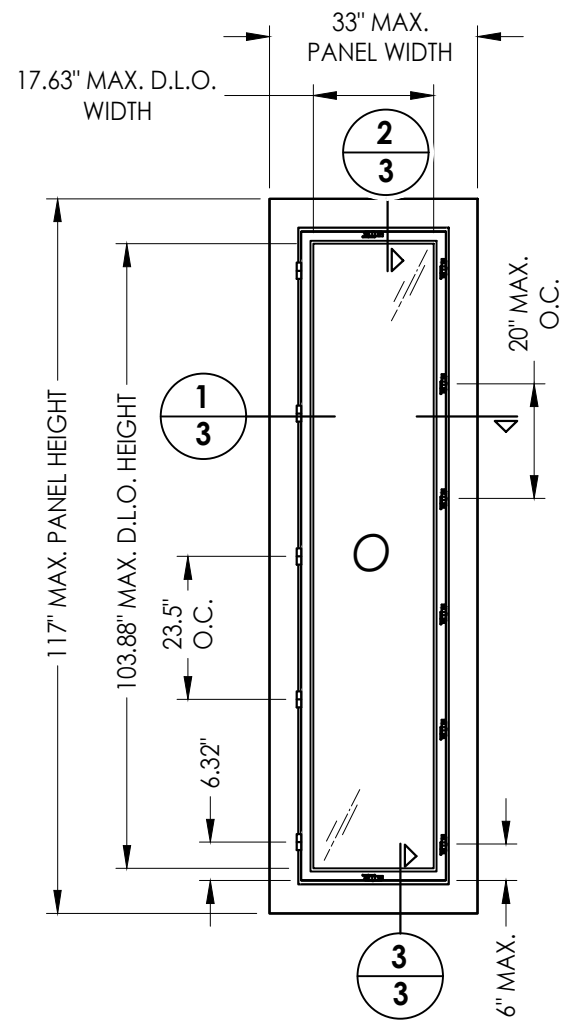
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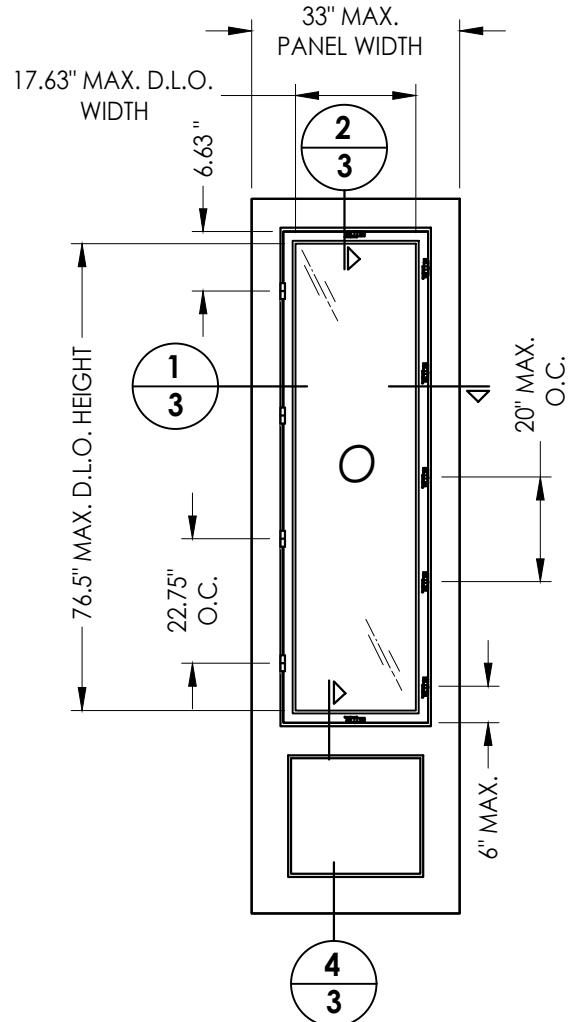
DRAWING NO.: FL-16663.15

SHEET 2 OF 12

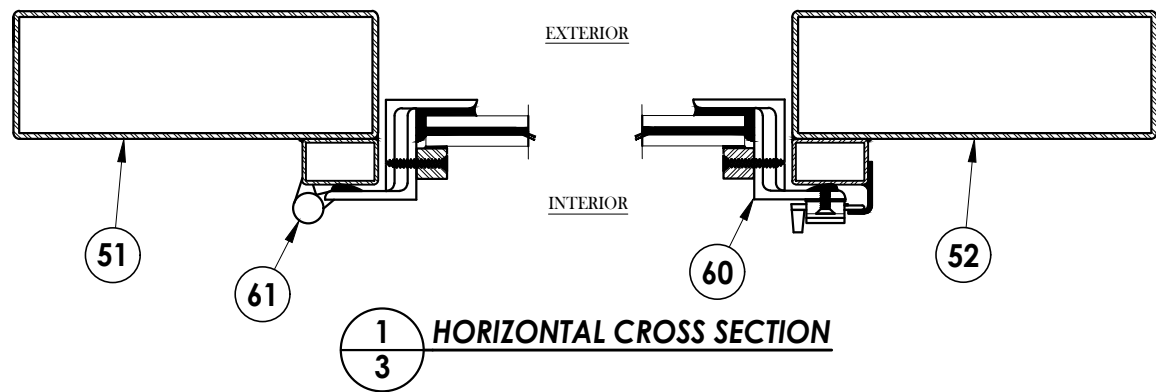
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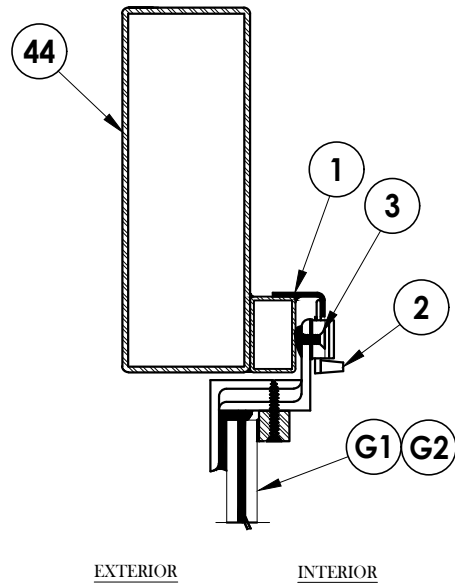
50 SIDELITE PANEL
w/ Operable Sash



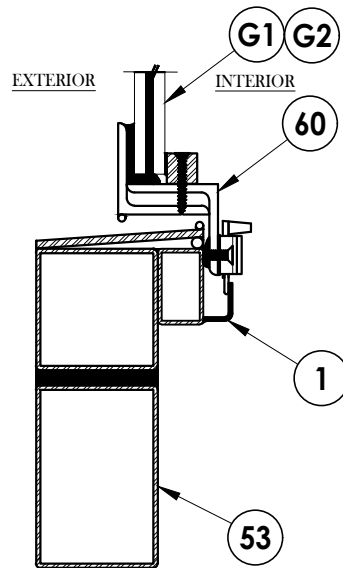
55 3/4 SIDELITE PANEL
w/ Operable Sash & Fixed Panel



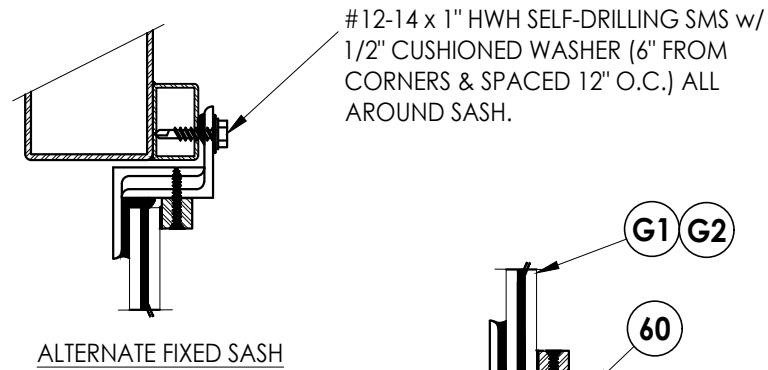
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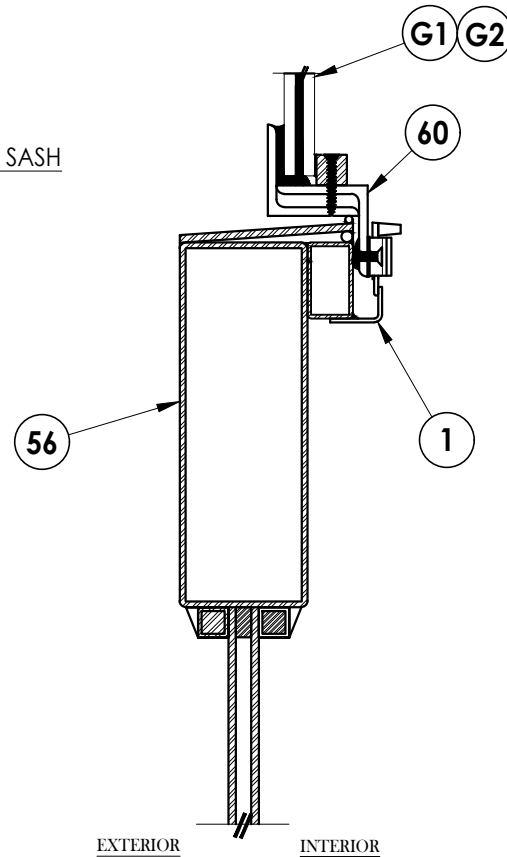
2 VERTICAL CROSS SECTION



3 VERTICAL CROSS SECTION



ALTERNATE FIXED SASH



4 VERTICAL CROSS SECTION

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

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

PRODUCT:
CLARK HALL IRON DOORS

PART OR ASSEMBLY:
SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS
4	7/05/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	9/09/20	UPDATE TO 7TH ED. (2020) FBC LFS
2	8/30/17	UPDATE TO 6TH ED. (2017) FBC LFS
1	8/17/15	UPDATE TO 5TH ED. (2014) FBC LFS

DATE: 11/8/13

SCALE: N.T.S.

DWG. BY: JK

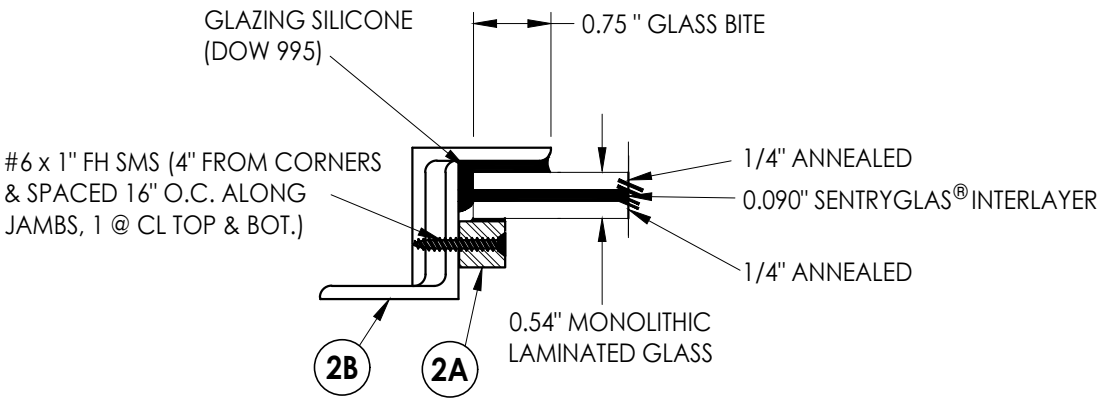
CHK. BY: LFS

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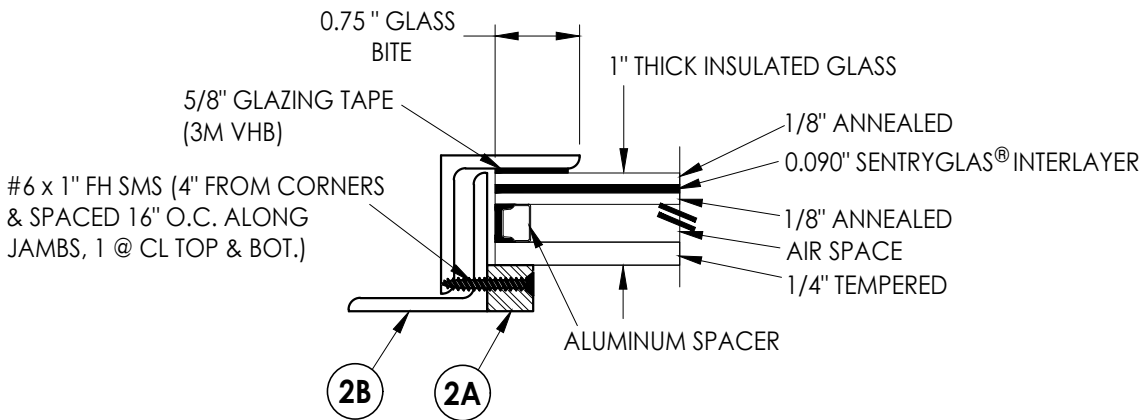
FL-16663.15

SHEET 3 OF 12

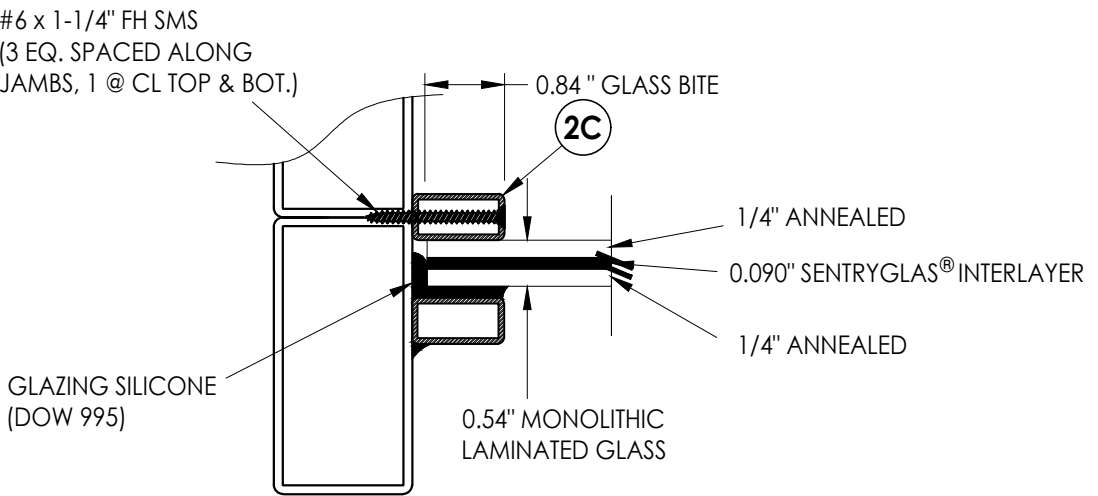
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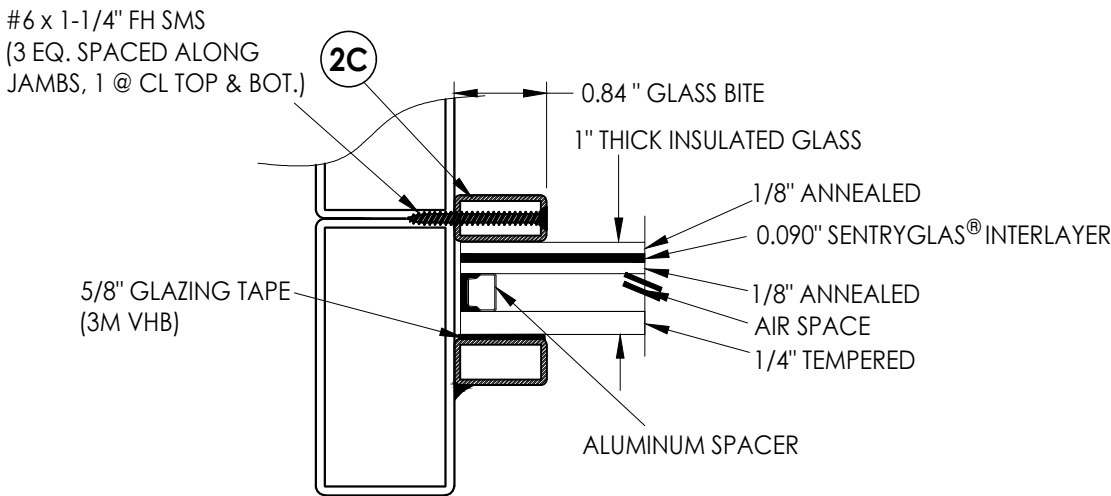
G1 GLAZING DETAIL
Operable Door/Sidelite



G2 GLAZING DETAIL
Operable Door/Sidelite



G1 GLAZING DETAIL
Fixed Sidelite/Transom

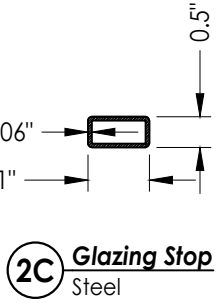
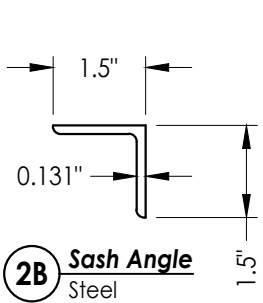
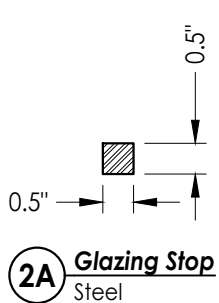


G2 GLAZING DETAIL
Fixed Sidelite/Transom

"HVHZ" GLAZING NOTES:
1. GLAZING > 36" WIDE REQUIRES TWO (2) SETTING
BLOCKS CONFORMING TO FBC SECTION 2411.3.3.1

GLAZING DESIGN PRESSURE LIMITATIONS

GLAZING	MAX. DESIGN PRESSURE (PSF)	
	POS.	NEG.
G1	+75.0	-75.0
G2	+65.0	-65.0



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

PRODUCT:
CLARK HALL IRON DOORS

PART OR ASSEMBLY:
GLAZING DETAILS

DATE: 11/8/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-16663.15

SHEET 4 OF 12

REVISIONS

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2	8/30/17	LFS
1	8/17/15	LFS

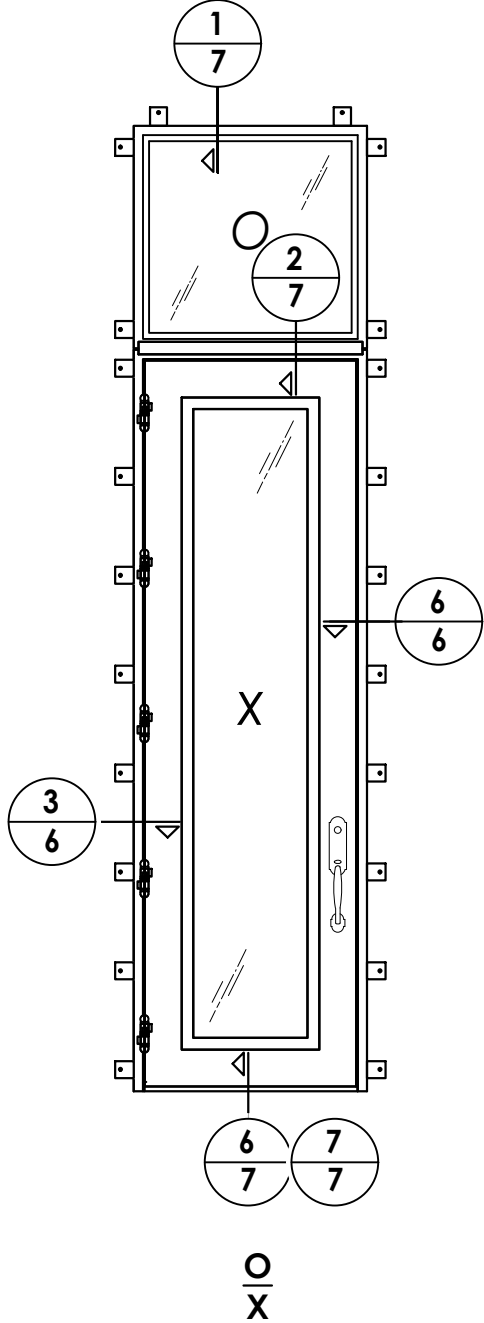
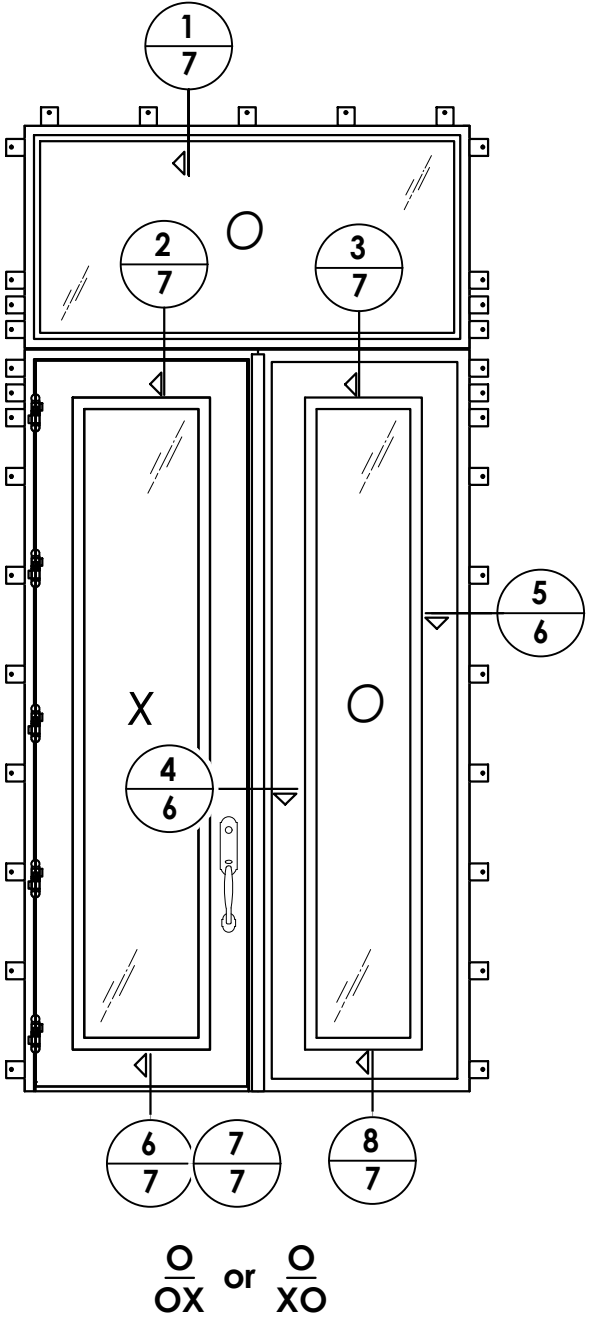
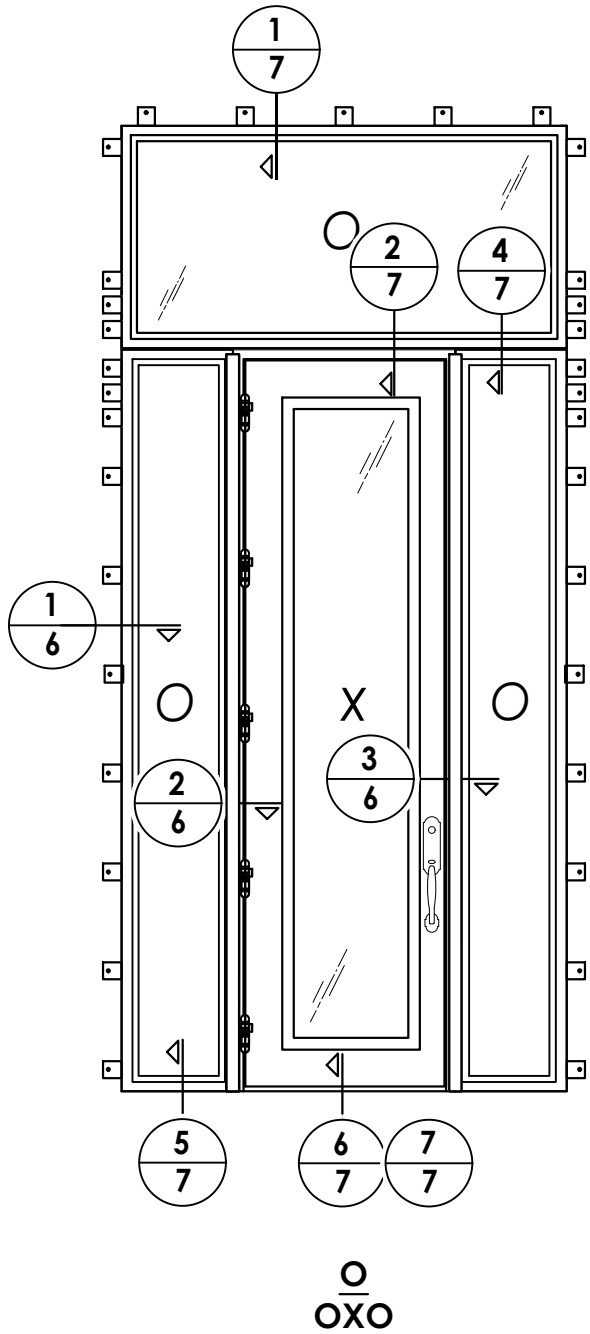
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Phone No.: 813.659.9197
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LOCK HARDWARE DESIGN PRESSURE LIMITATIONS

MANUFACTURER	MODEL	MAX. DESIGN PRESSURE (PSF)	
		POS.	NEG.
EMTEK	TUBULAR ENTRY SET (SHERIDAN - 451812)	+75.0	-75.0
SUN VALLEY BRONZE ACCURATE LOCK & HARDWARE	LEVER/KNOB ENTRY SET (RIDGE: CS-421PLD) MORTISE LOCK	+65.0	-65.0
ASHLEY NORTON	TUBULAR ENTRY SET (SQTUB w/ 900 SERIES KNOB)	+65.0	-65.0
ASHLEY NORTON ACCURATE LOCK & HARDWARE	MORTISE LOCK (SQMOR w/ 900 SERIES KNOB) MORTISE LOCK	+65.0	-65.0



NO.	DATE	REVISIONS	
		BY	LFS
4	7/05/23	UPDATE TO 8TH ED. (2023)	FBC LFS
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1	8/17/15	UPDATE TO 5TH ED. (2014)	FBC LFS

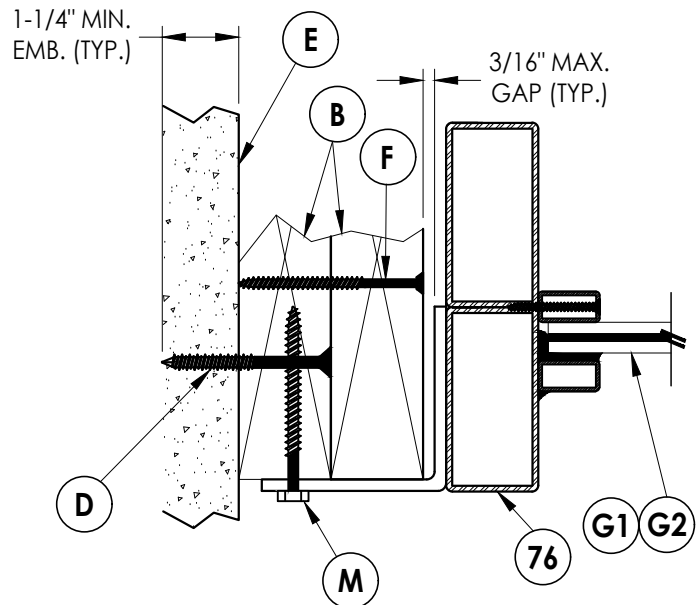
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SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-16663.15
SHEET 5 OF 12

PRODUCT:	CLARK HALL IRON DOORS
	PART OR ASSEMBLY: ELEVATIONS

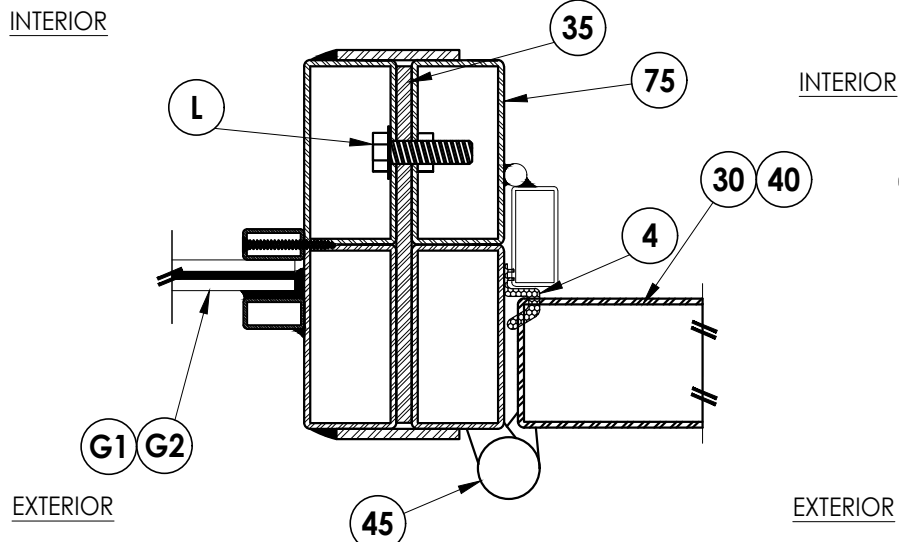
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Lyndon F. Schmidt
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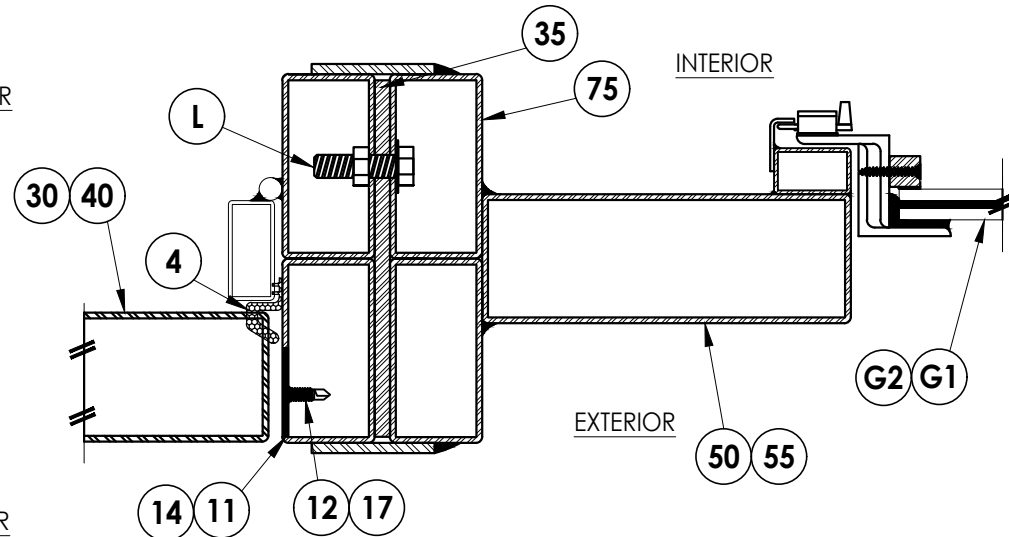
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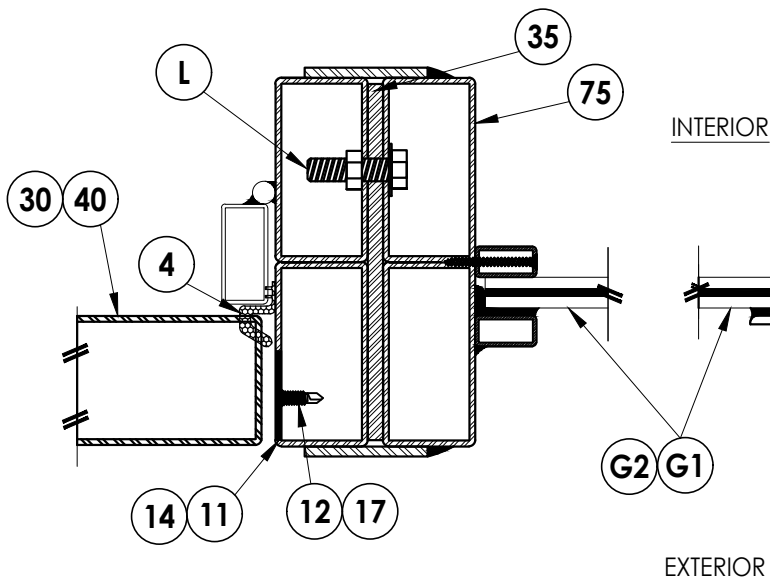
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6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



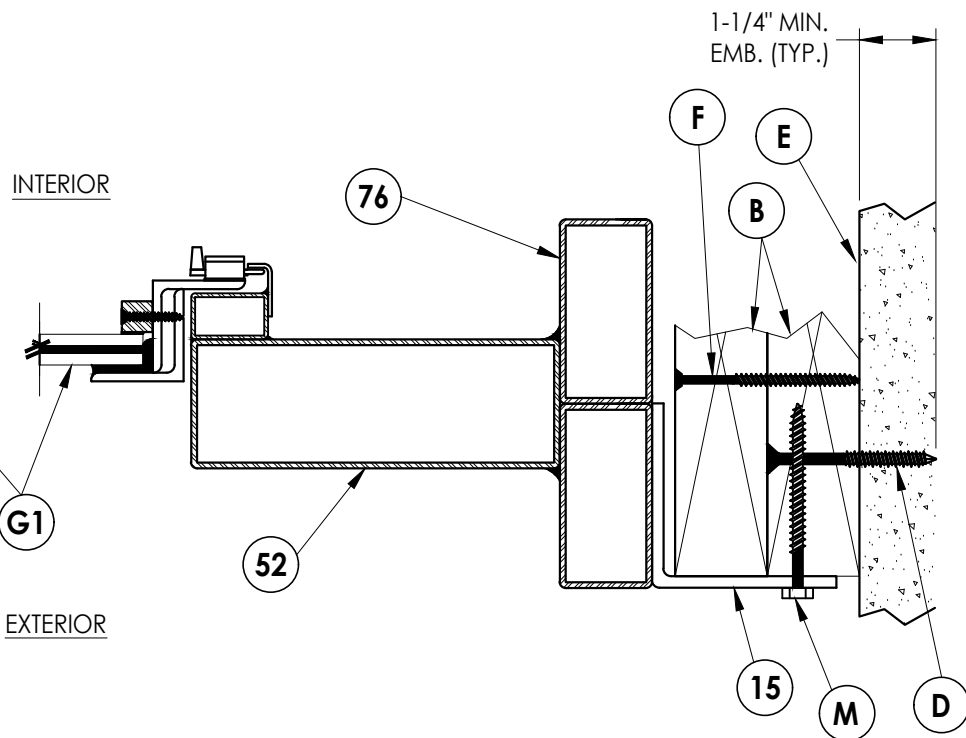
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6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



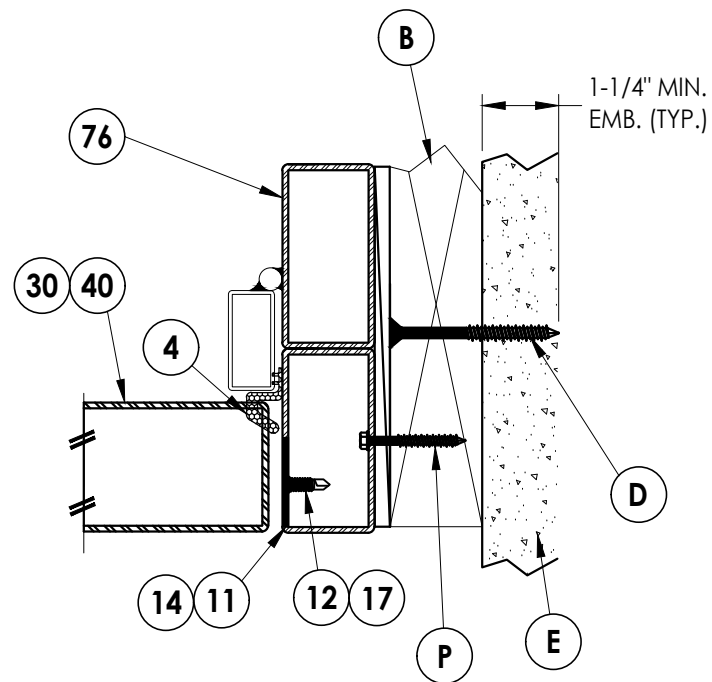
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6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



3
6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



5
6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



6
6 **HORIZONTAL CROSS SECTION**
Shown w/ Optional Through the Frame Anchoring

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P.E. No. 43409

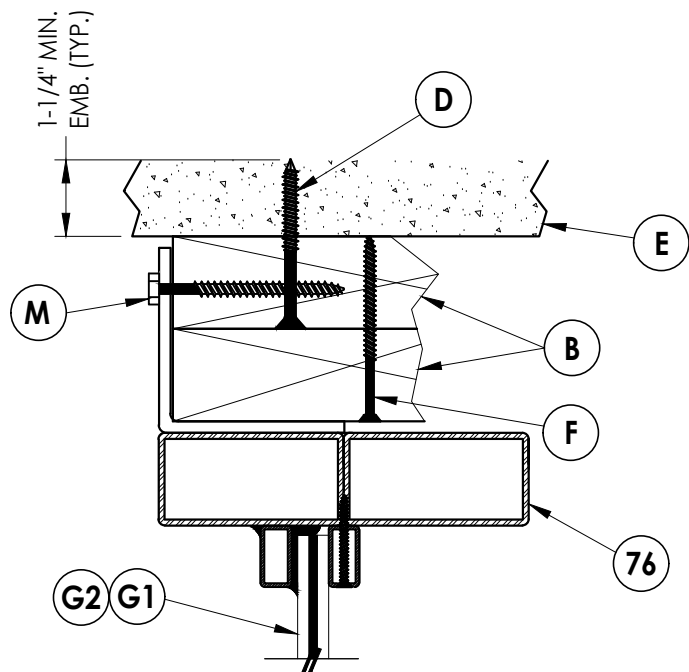
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
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PRODUCT:
CLARK HALL IRON DOORS

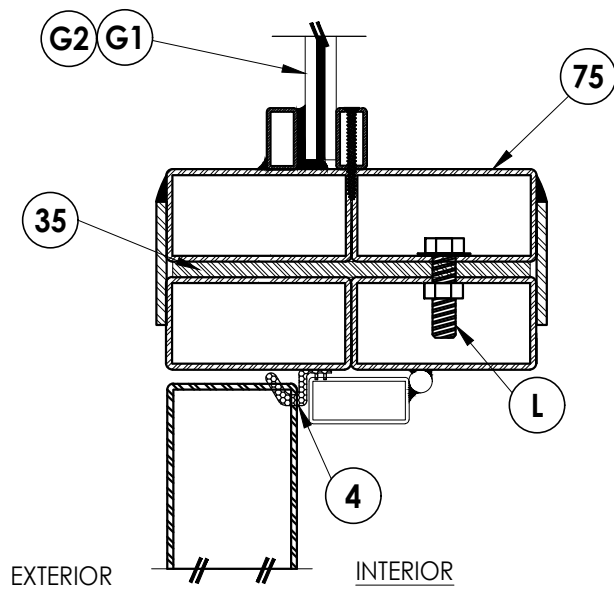
PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

NO.	DATE	REVISIONS			
		BY	LFS	FBC	
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3	9/09/20		UPDATE TO 7TH ED. (2020)	FBC	LFS
2	8/30/17		UPDATE TO 6TH ED. (2017)	FBC	LFS
1	8/17/15		UPDATE TO 5TH ED. (2014)	FBC	LFS
DATE: 11/8/13					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-16663.15					
SHEET 6 OF 12					

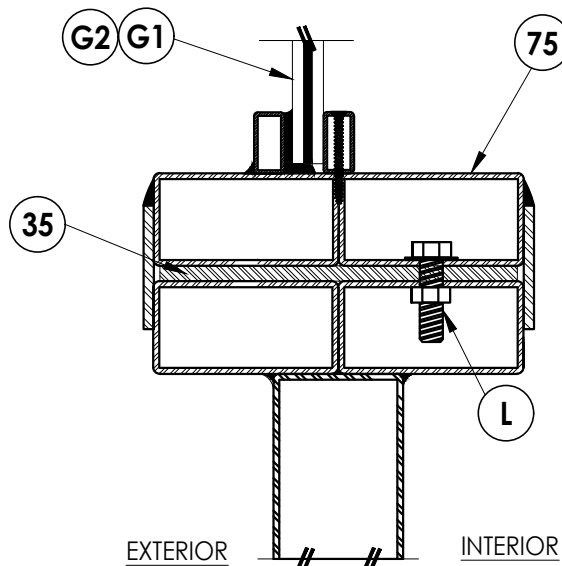
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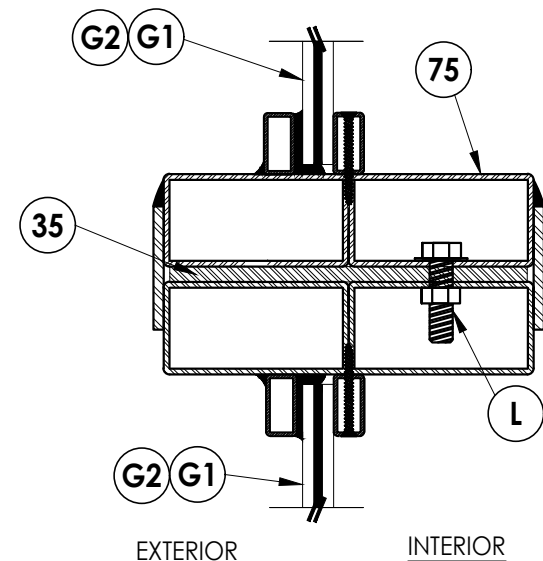
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7 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)



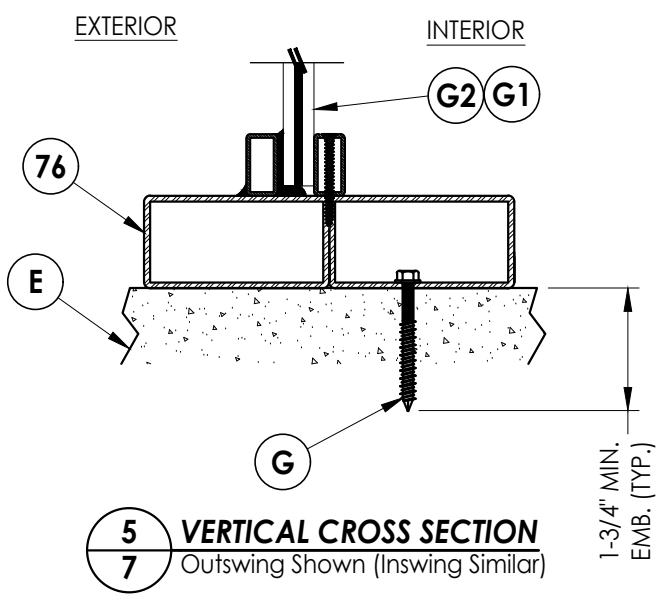
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Outswing Shown (Inswing Similar)



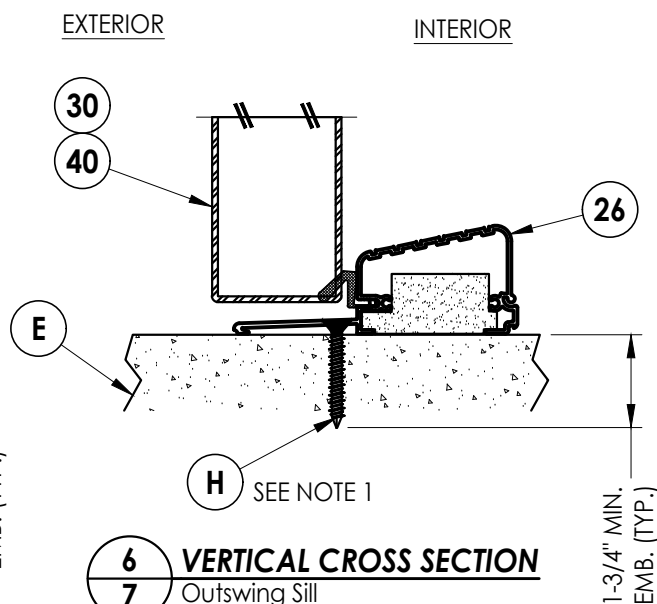
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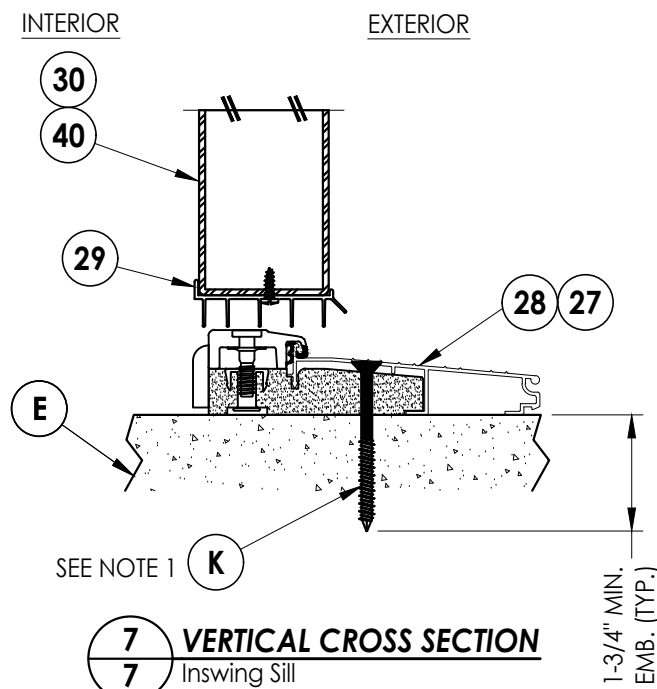
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Outswing Shown (Inswing Similar)



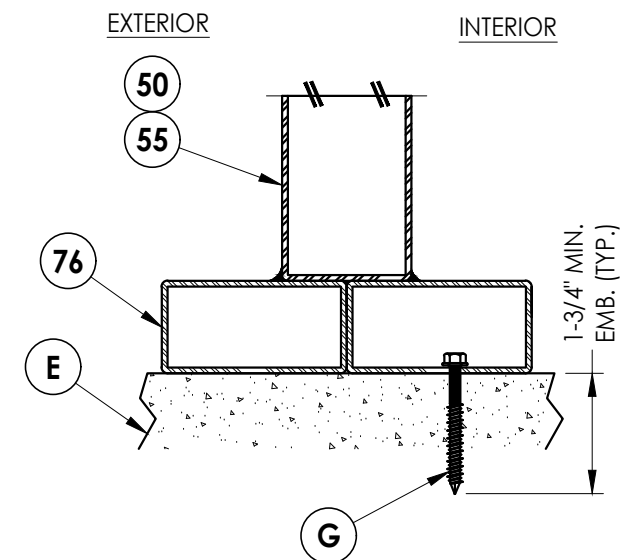
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7 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)



6
7 **VERTICAL CROSS SECTION**
Outswing Sill



7
7 **VERTICAL CROSS SECTION**
Inswing Sill



8
7 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)

NOTE:
1. Sill anchor is not required for Single Door w/ Transom (O/X).

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:
CLARK HALL IRON DOORS

PART OR ASSEMBLY:
VERTICAL
CROSS SECTIONS

NO.	DATE	REVISIONS			
		BY	DATE	DESCRIPTION	REVISIONS
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3	9/09/20	LFS	(2020)	FBC	UPDATE TO 7TH ED.
2	8/30/17	LFS	(2017)	FBC	UPDATE TO 6TH ED.
1	8/17/15	LFS	(2014)	FBC	UPDATE TO 5TH ED.

DATE: 11/8/13

SCALE: N.T.S.

DWG. BY: JK

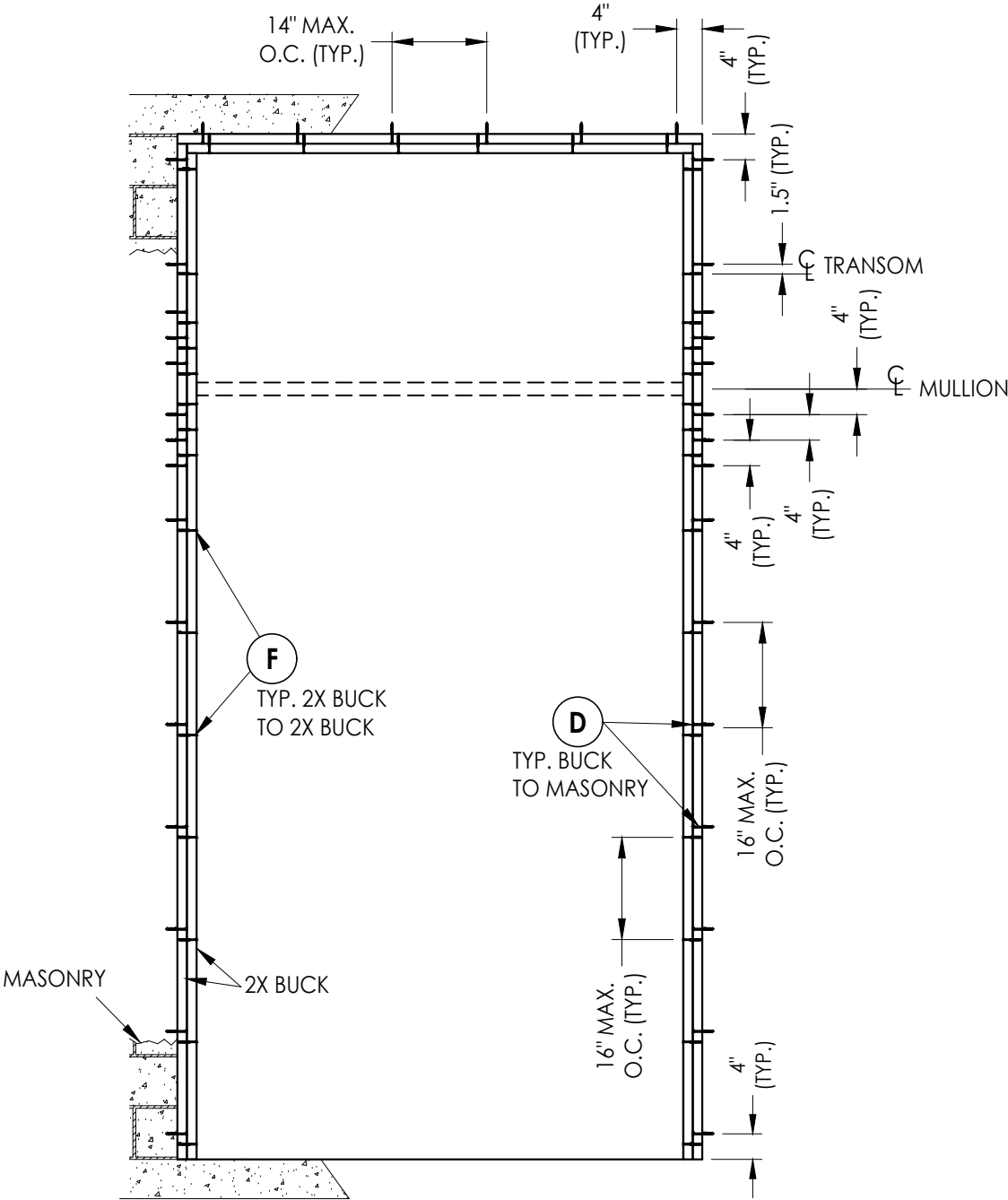
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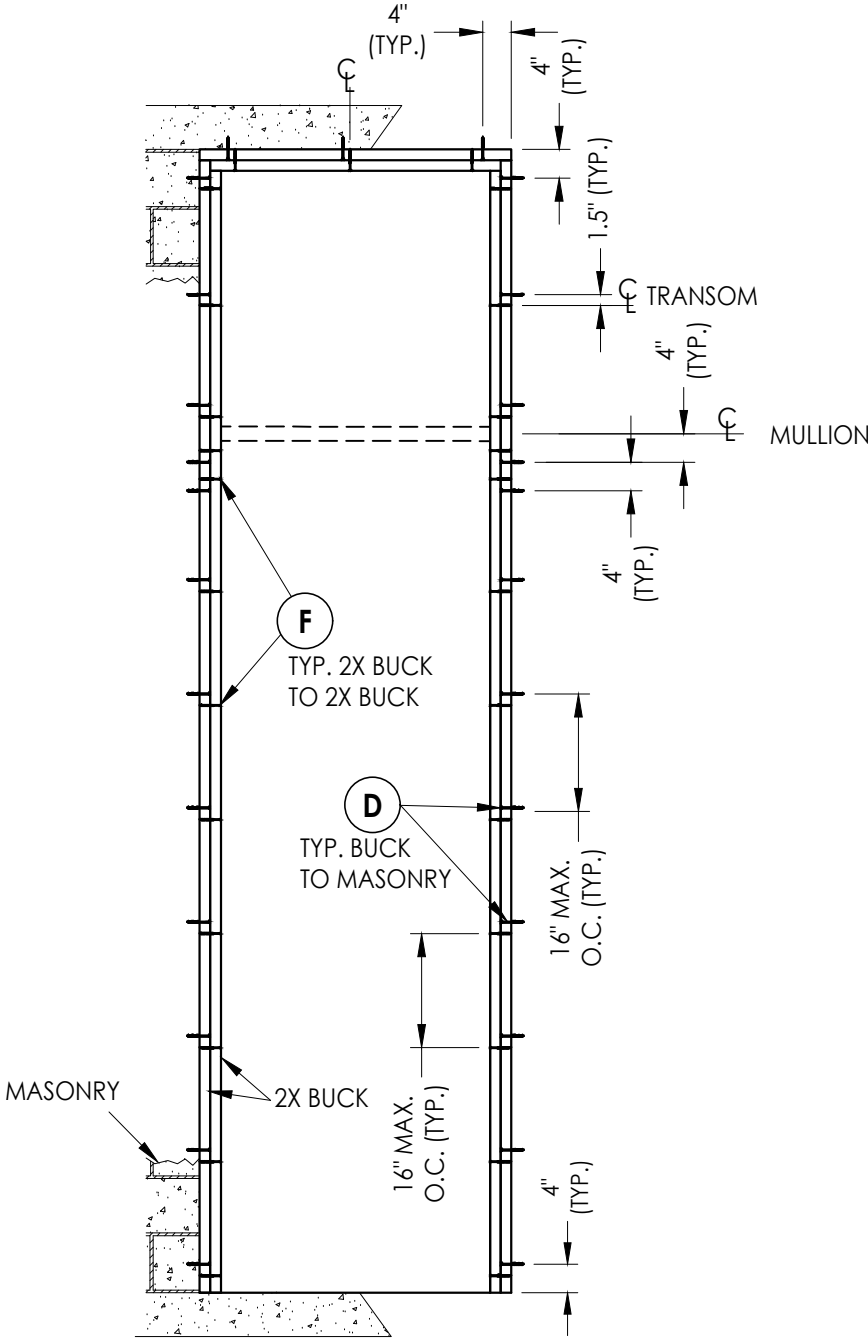
SHEET 7 OF 12

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BUCK ANCHORING

$\frac{O}{OXO}$, $\frac{O}{OX}$, $\frac{O}{XO}$



BUCK ANCHORING

$\frac{O}{X}$

NOTE FOR THROUGH THE FRAME ANCHORING ONLY
ONE 2X BUCK IS REQUIRED, ANCHORED AS SHOWN.

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"	3"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	3"	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.

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P.E. No. 43409

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

PRODUCT: CLARK HALL IRON DOORS

PART OR ASSEMBLY:
BUCK ANCHORING

NO.	DATE	REVISIONS			
		DATE	BY	REVISIONS	
4	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	9/09/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
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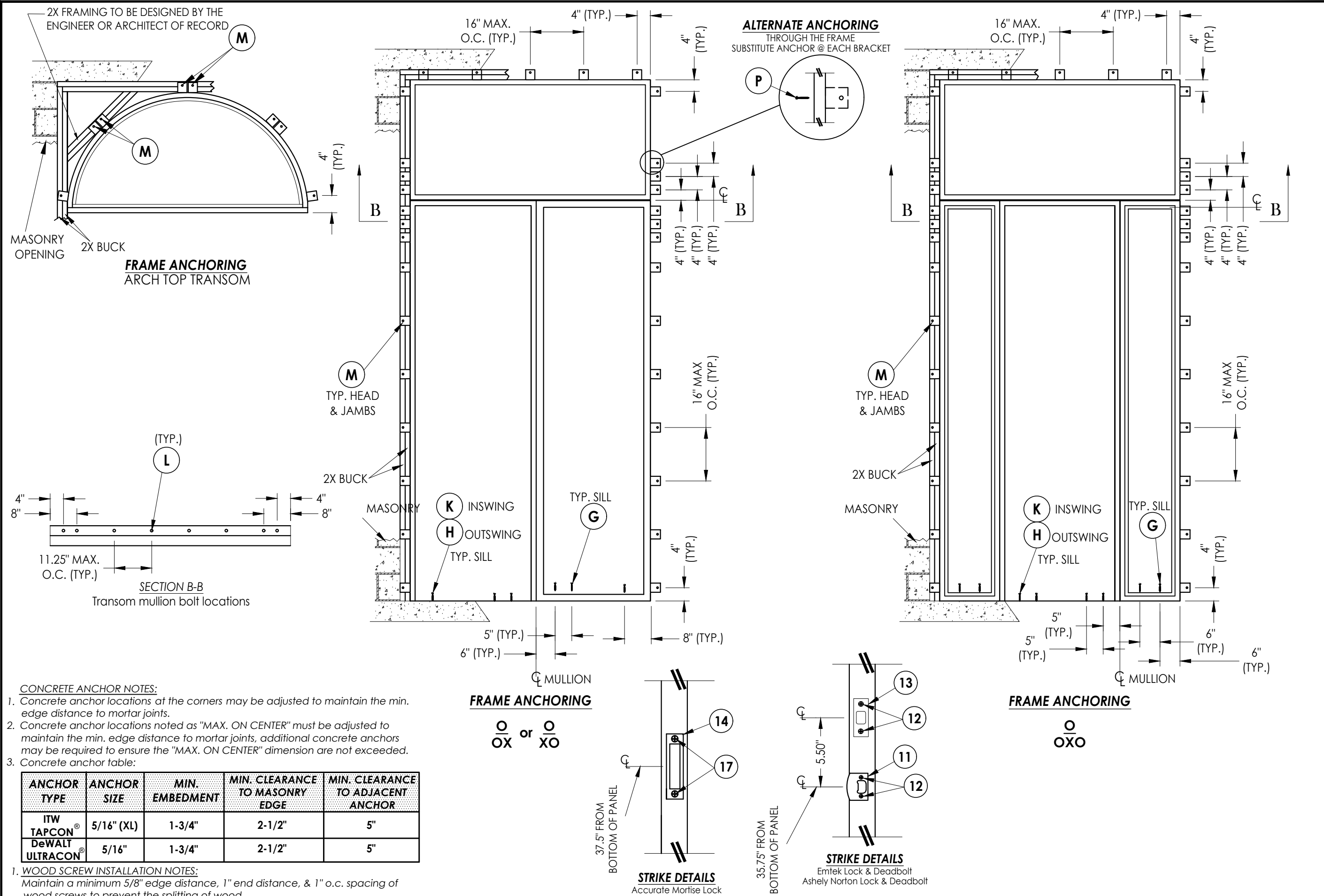
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FL-16663.15

SHEET 8 OF 12

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Lyndon F. Schmidt
P.E. No. 43409

CLARK HALL IRON DOORS

FRAME ANCHORING

DATE: 11/8/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-16663.15

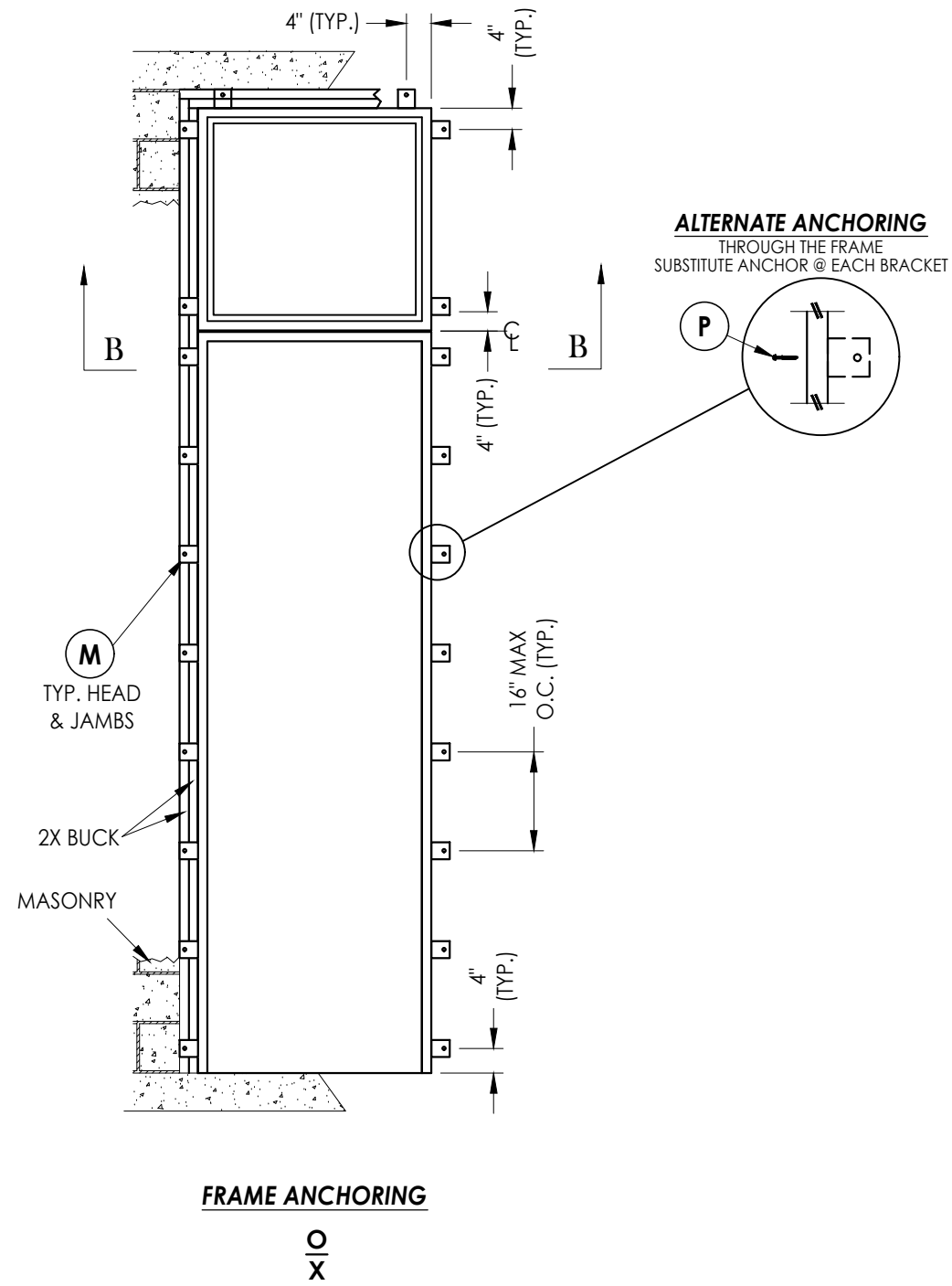
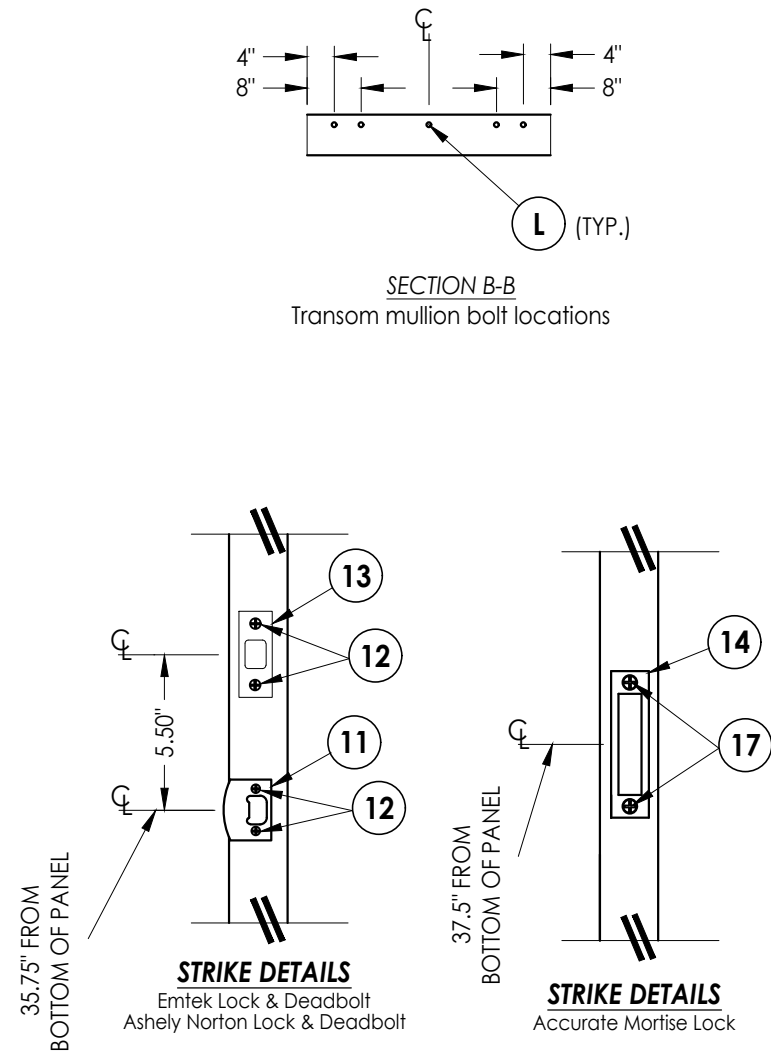
SHEET 9 OF 12

REVISIONS

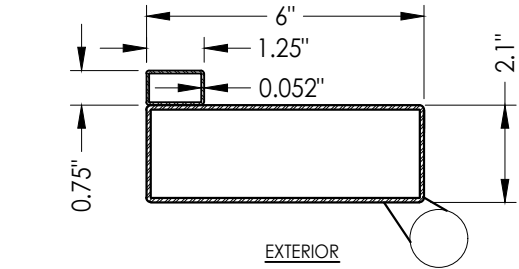
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1	8/17/15	UPDATE TO 5TH ED. (2014) FBC

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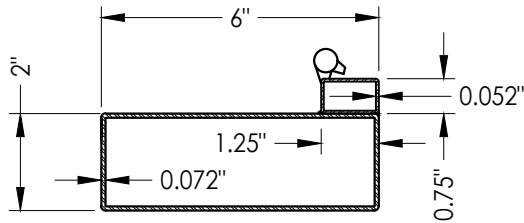
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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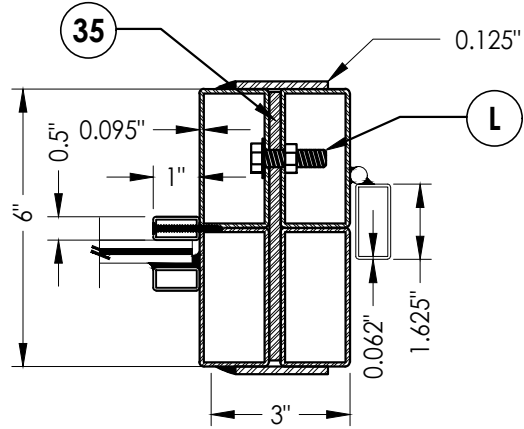
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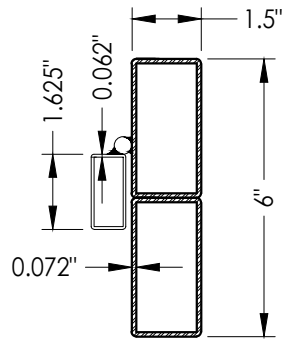
31 Full Lite Door Panel
Active Hinge Stile



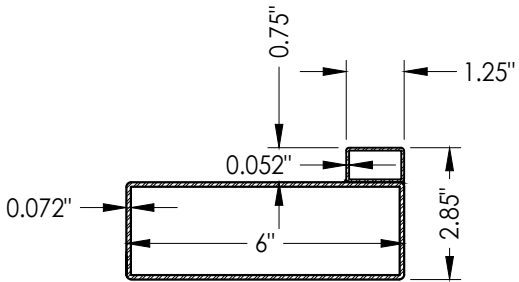
51 Sidelite Panel
Operable Sash Hinge Stile



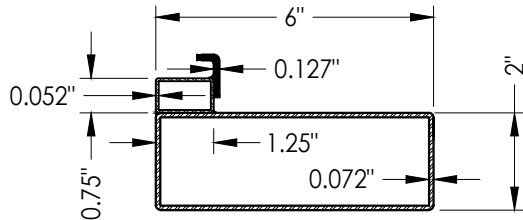
75 MULLION
Vertical with Direct Set Sidelite shown
(Horizontal Mullion Similar)



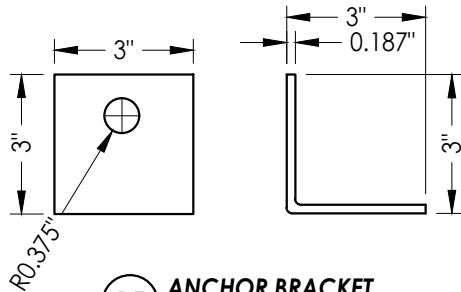
76 Jamb



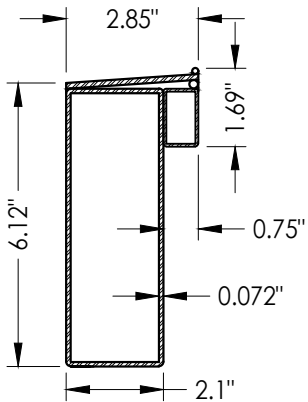
32 Full Lite Door Panel
Active Latch Stile



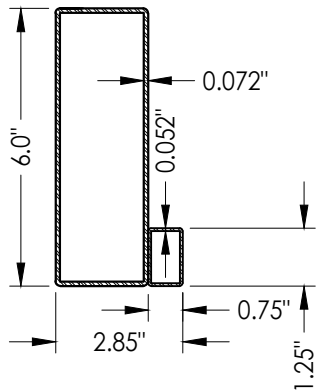
52 Sidelite Panel
Operable Sash Latch Stile



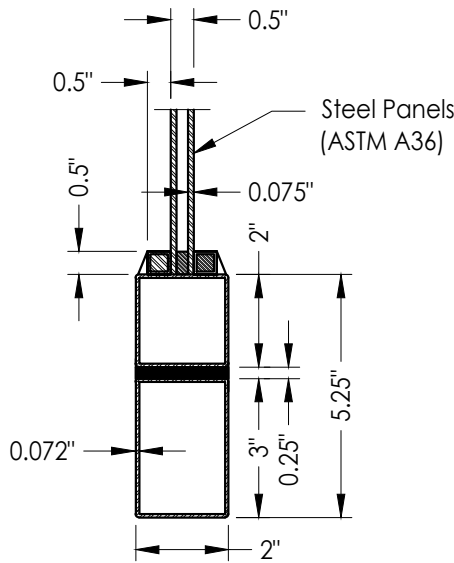
15 ANCHOR BRACKET



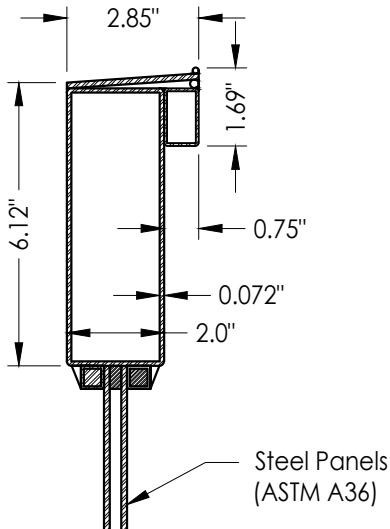
43 Full Lite Door Panel
Bottom Rail



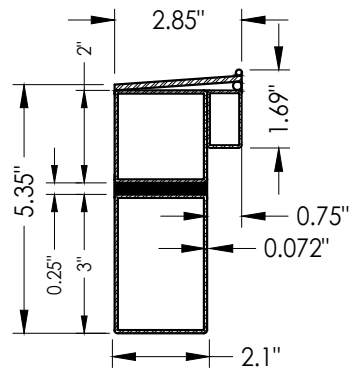
44 Full Lite Door Panel
Top Rail



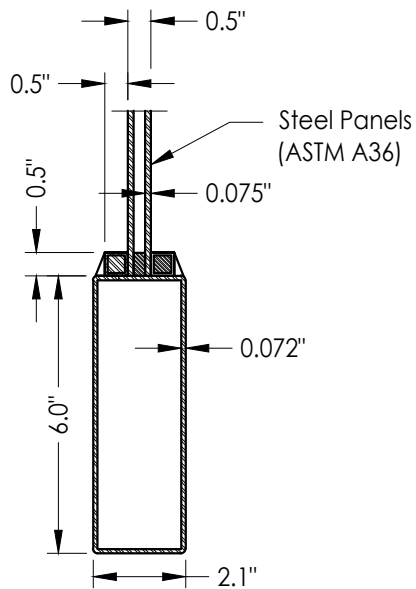
54 Bottom Rail
3/4 Lite Sidelite Panel



56 Mid Rail
3/4 Lite Sidelite Panel



53 Bottom Rail
Sidelite Panel



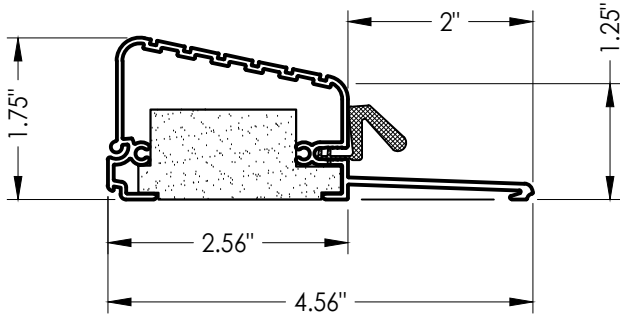
57 Bottom Rail
3/4 Lite Door Panel

PRODUCT:		CLARK HALL IRON DOORS		PART OR ASSEMBLY:		COMPONENTS	
DOCUMENTS PREPARED BY:		CLARK HALL IRON DOORS		PART OR ASSEMBLY:		COMPONENTS	
4	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
3	9/09/20	UPDATE TO 7TH ED. (2020)	FBC	LFS			
2	8/30/17	UPDATE TO 6TH ED. (2017)	FBC	LFS			
1	8/17/15	UPDATE TO 5TH ED. (2014)	FBC	LFS			
	NO.	DATE		BY			
REVISIONS							
DATE: 11/8/13							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-16663.15							
SHEET 11 OF 12							

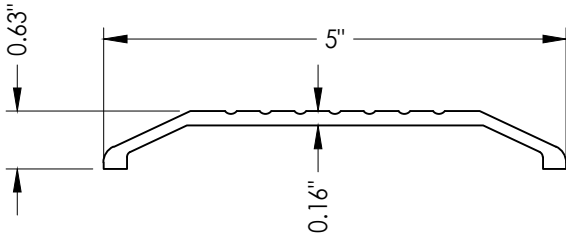
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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Phone No.: 813.659.9197
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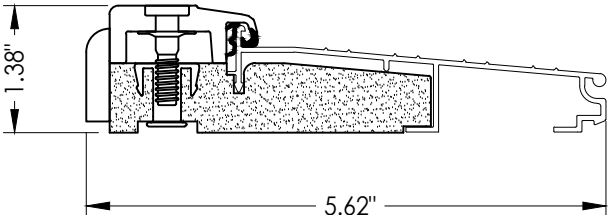
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X BUCK SG >= 0.55	WOOD
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 3" PFH WOOD SCREW	STEEL
G	5/16" X 2-1/4" HH DeWALT OR ITW CONCRETE SCREW	STEEL
H	5/16" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	5/16" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
L	5/16-18 X 1-1/2" HH BOLT (GR. 5) w/ LOCK WASHER & NUT	STEEL
M	3/8" X 3" HH LAG SCREW (2-3/4" MIN. EMBEDMENT)	STEEL
P	#12 X 1-1/2" HWH SMS (1-3/16" MIN. EMBEDMENT)	STEEL
1	SASH LATCH STRIKE	STEEL
2	SASH LATCH	STEEL
3	#8 X 1/4" PFH SMS	STEEL
4	WEATHERSTRIP (QLON)	FOAM
11	LATCH STRIKE PLATE	STEEL
12	#8 X 3/4" PFH SMS	STEEL
13	DEADBOLT STRIKE PLATE	STEEL
14	MORTISE STRIKE PLATE	STEEL
15	ANCHORING BRACKET	STEEL
17	#12-24 X 13/16" PFH COMBINATION WOOD/MACHINE SCREW	STEEL
20	FLIP BOLT	STEEL
25	#6 X 1/2" PWH SELF TAPPING SMS	STEEL
26	OUTSWING THRESHOLD (DLP)	ALUM/COMP
27	ADA THRESHOLD	ALUM
28	INSWING THRESHOLD (AFCO)	ALUM/COMP
29	DOOR SWEEP (w/ #8 x 3/4" SMS)	-
30	DOOR PANEL (FULL LITE)	-
31	HINGE STILE (ACTIVE DOOR)	ASTM A36 STEEL
32	LATCH STILE (ACTIVE DOOR)	ASTM A36 STEEL
35	MULLION REINFORCEMENT (1/4" X 6" STEEL BAR)	ASTM A36 STEEL
40	DOOR PANEL (3/4 LITE)	-
43	BOTTOM RAIL (FULL LITE)	ASTM A36 STEEL
44	TOP RAIL (FULL LITE)	ASTM A36 STEEL
45	DOOR PANEL HINGE	STEEL
50	SIDELITE PANEL W/ OPERABLE SASH	-
51	SIDELITE HINGE STILE	ASTM A36 STEEL
52	SIDELITE LATCH STILE	ASTM A36 STEEL
53	BOTTOM RAIL (SIDELITE PANEL)	ASTM A36 STEEL
54	BOTTOM RAIL (3/4 LITE SIDELITE PANEL)	ASTM A36 STEEL
55	3/4 SIDELITE PANEL W/ OPERABLE SASH	-
56	MID RAIL (3/4 LITE SIDELITE PANEL)	ASTM A36 STEEL
57	BOTTOM RAIL (3/4 LITE SIDELITE PANEL)	ASTM A36 STEEL
60	SASH LITE FRAME	STEEL
61	SASH HINGE	STEEL
75	VERTICAL MULL	ASTM A36 STEEL
76	JAMB	ASTM A36 STEEL



26 OUTSWING THRESHOLD



27 ADA THRESHOLD



28 INSWING THRESHOLD

PRODUCT:		CLARK HALL IRON DOORS				BILL OF MATERIALS & COMPONENTS	
		4	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	REVISIONS
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DRAWING NO.: FL-16663.15							
SHEET 12 OF 12							