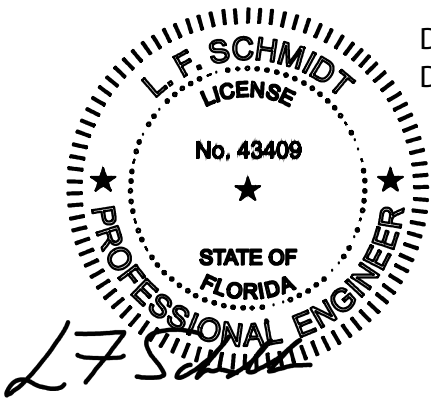


Clark Hall Iron Doors

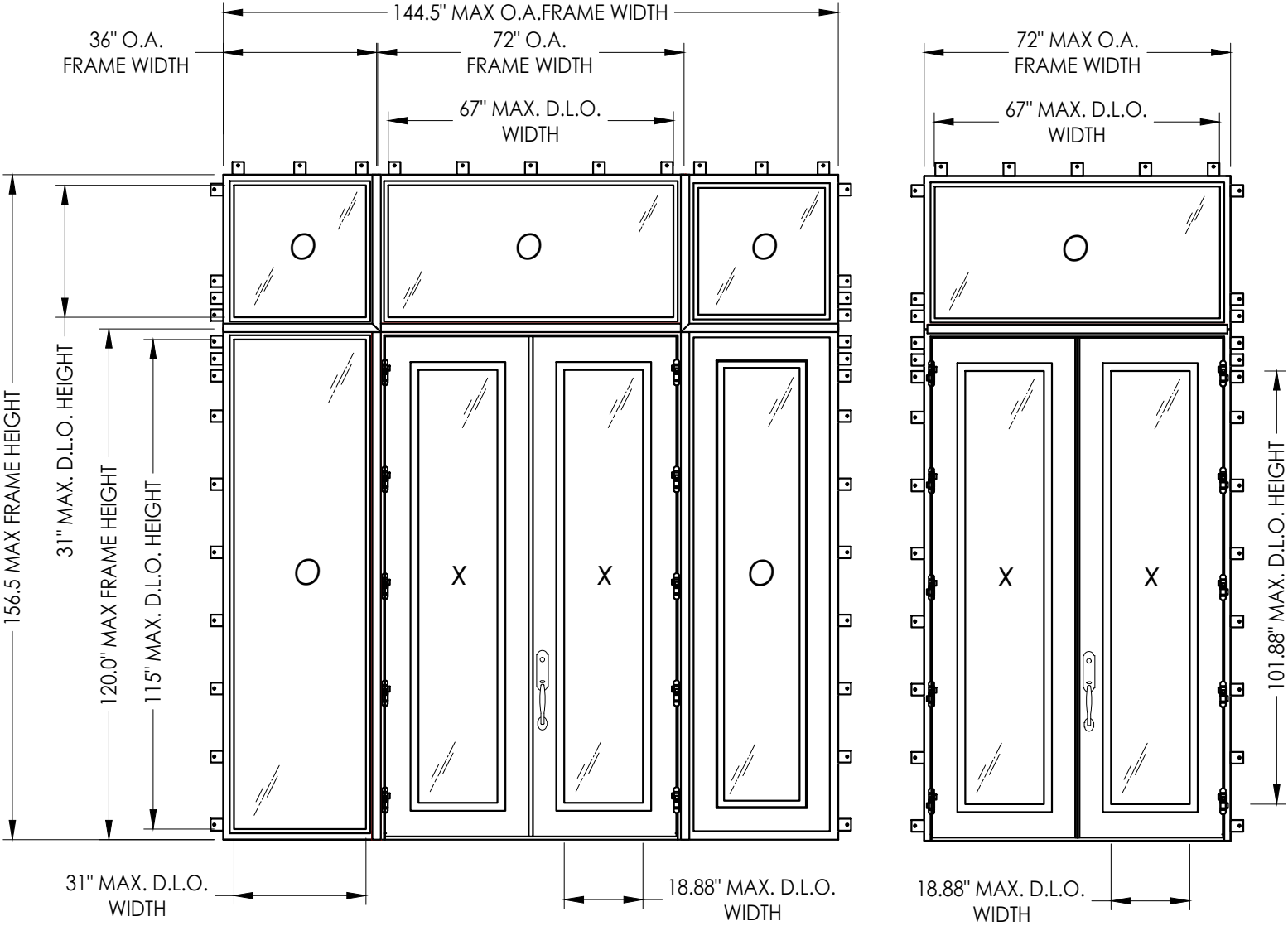
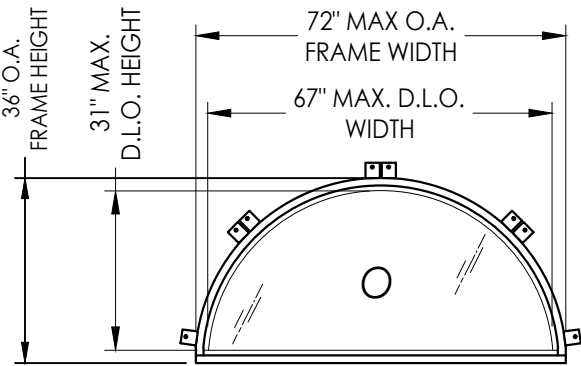
GLAZED IRON DOUBLE DOOR w/ TRANSOM w/ & w/out SIDELITES INSWING/OUTSWING "IMPACT"



Digitally signed by Lyndon F Schmidt
Date: 2023.07.05 08:42:54 -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



GENERAL NOTES

- 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).
- 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 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.
- 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.

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

CONFIGURATION	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)			
		INSWING		OUTSWING	
		POS.	NEG.	POS.	NEG.
O XX	72.0" x 156.5"	+75.0	-75.0	+75.0	-75.0
OOO OXXO	144.5" x 156.5"	+75.0	-75.0	+75.0	-75.0

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

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

PRODUCT:
CLARK HALL IRON DOORS

PART OR ASSEMBLY:
TYPICAL ELEVATIONS, DESIGN
PRESSURES & GENERAL NOTES

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
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DATE: 11/8/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

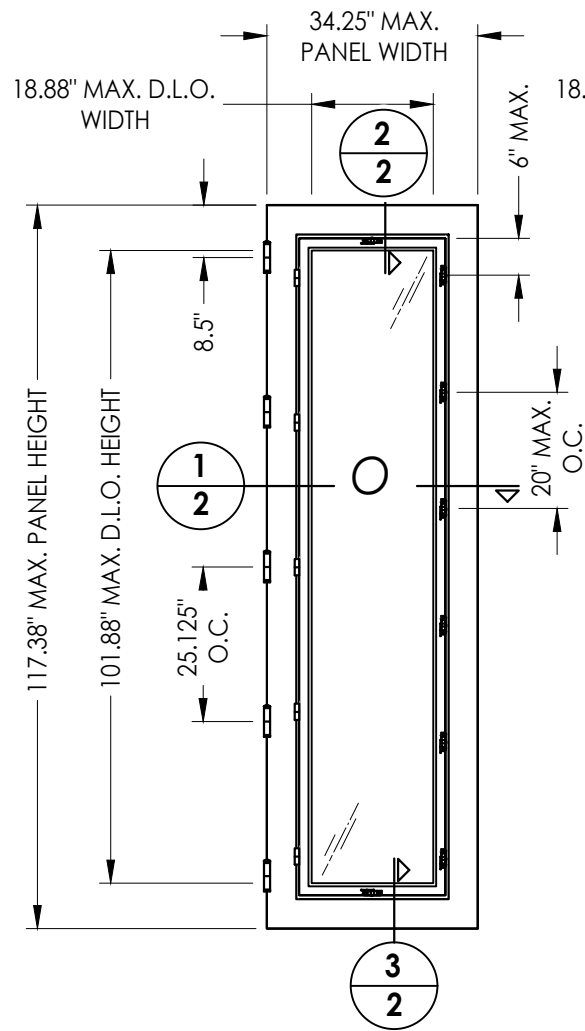
DRAWING NO.: FL-16663.12

SHEET 1 OF 13

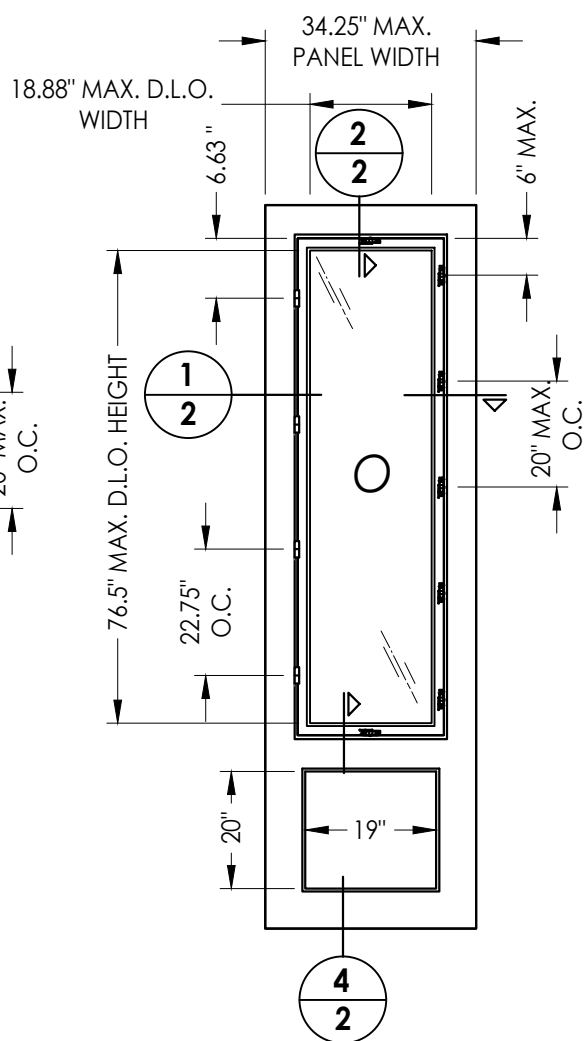
Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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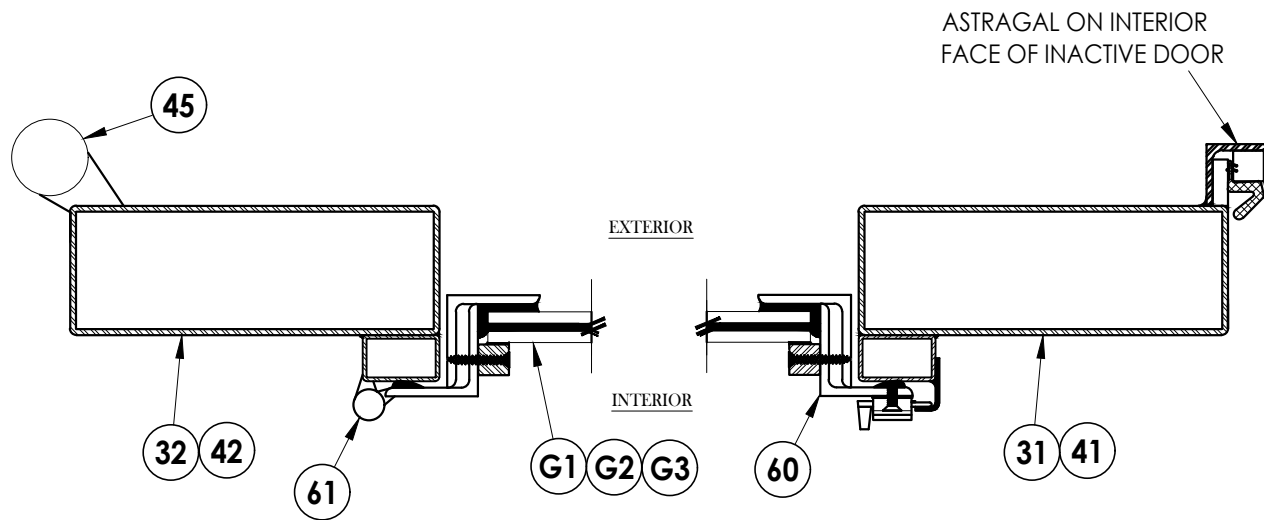
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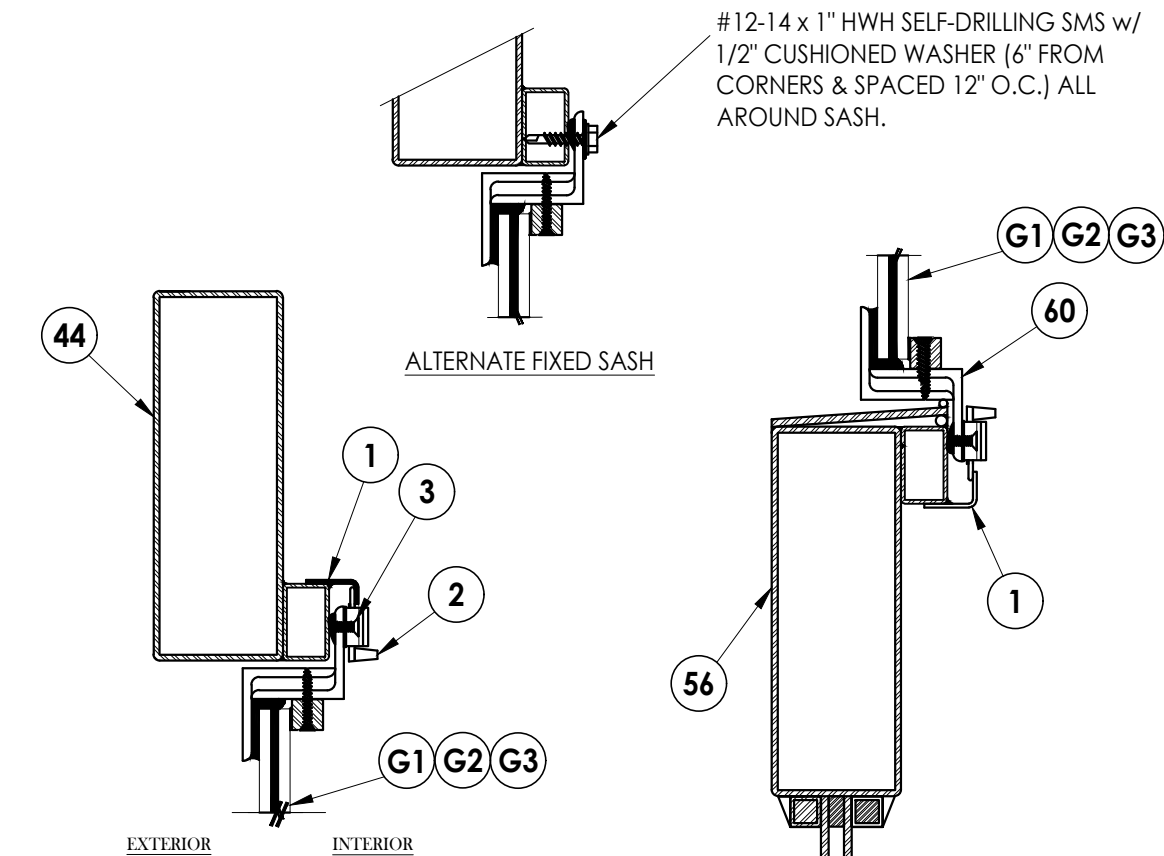
30 DOOR PANEL
w/ Operable Sash



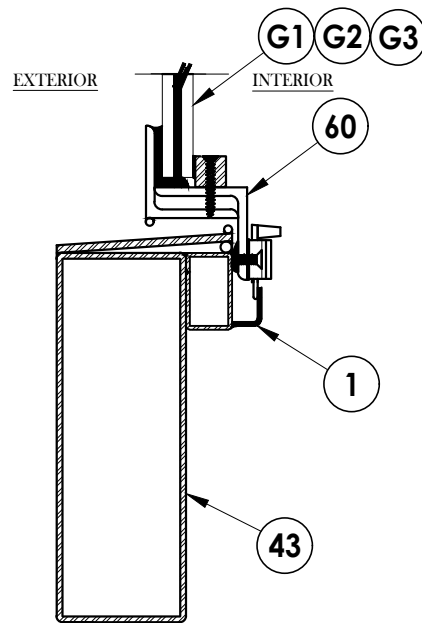
40 3/4 LITE DOOR PANEL
w/ Operable Sash



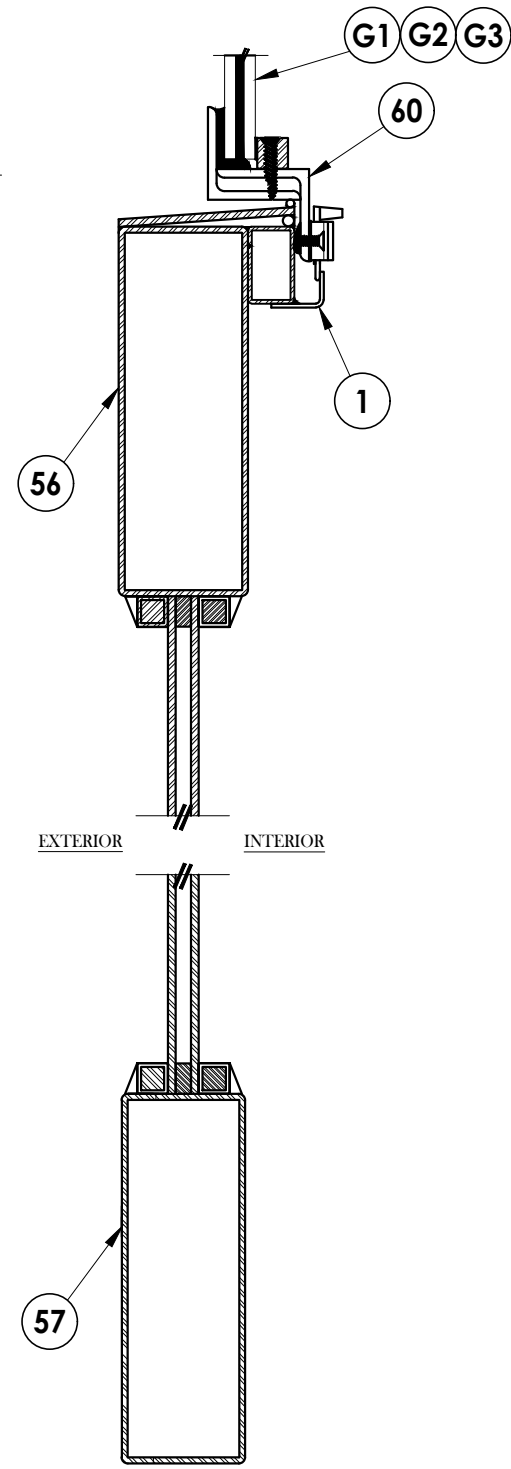
1 HORIZONTAL CROSS SECTION
Active Door Panel Shown



2 VERTICAL CROSS SECTION



3 VERTICAL CROSS SECTION



4 VERTICAL CROSS SECTION

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PRODUCT:
CLARK HALL IRON DOORS

		LFS
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2	8/30/17	UPDATE TO 6TH ED. (2017) FBC
1	8/17/15	UPDATE TO 5TH ED. (2014) FBC
NO.	DATE	

DATE: 11/8/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-16663.12
SHEET 2 OF 13

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PART OR ASSEMBLY:
DOOR PANEL DETAILS

REVISIONS

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Technical drawing of a rectangular panel with dimensions and callouts:

- 33" MAX. PANEL WIDTH**: Dimension across the top of the panel.
- 17.63" MAX. D.L.O. WIDTH**: Dimension across the top of the panel, below the 33" dimension.
- 6.63"**: Dimension across the top of the panel, below the 17.63" dimension.
- 76.5" MAX. D.L.O. HEIGHT**: Dimension along the left side of the panel.
- 22.75" O.C.**: Dimension along the left side of the panel, below the 76.5" dimension.
- 20" MAX. O.C.**: Dimension along the right side of the panel.
- 6" MAX.**: Dimension along the right side of the panel, below the 20" dimension.
- Callouts**: Four circular callouts labeled 1, 2, 3, and 4, each with a 3 below it, pointing to specific features on the panel.

44

1

3

2

G1 G2 G3

EXTERIOR

INTERIOR

ALTERNATE FIXED SASH

5

2 VERTICAL CROSS SECTION

3

1
3

HORIZONTAL CROSS SECTION

#12-14 x 1" HWH SELF-DRILLING SMS w/
1/2" CUSHIONED WASHER (6" FROM
CORNERS & SPACED 12" O.C.) ALL
AROUND SASH.

ASH

56

60

1

G1 G2 G3

EXTERIOR

INTERIOR

54

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P.E. No. 43409

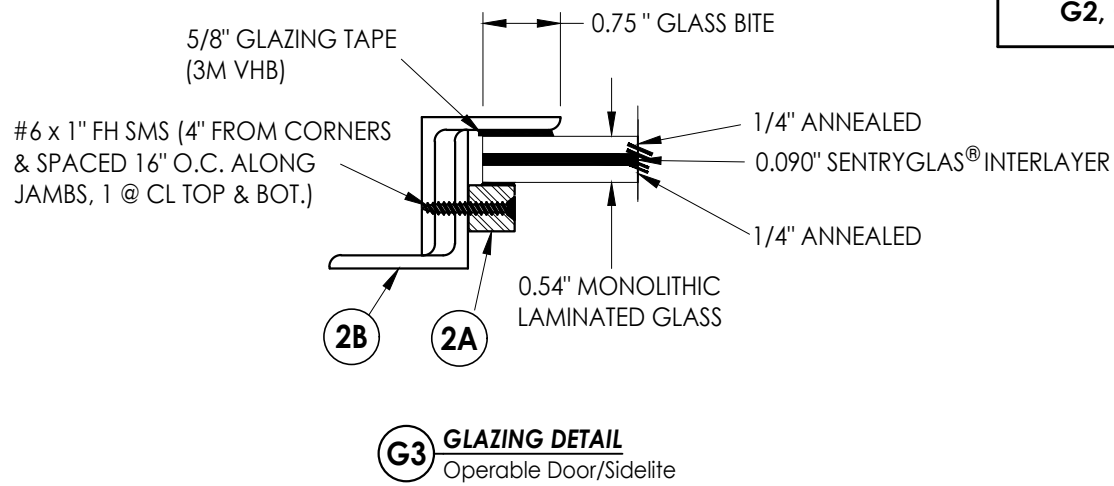
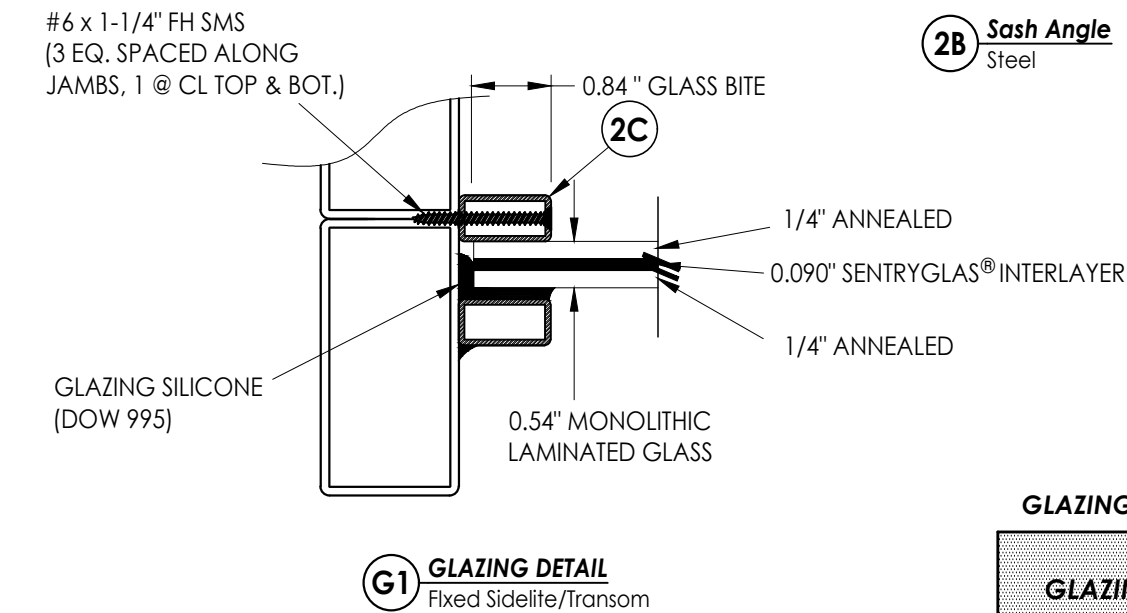
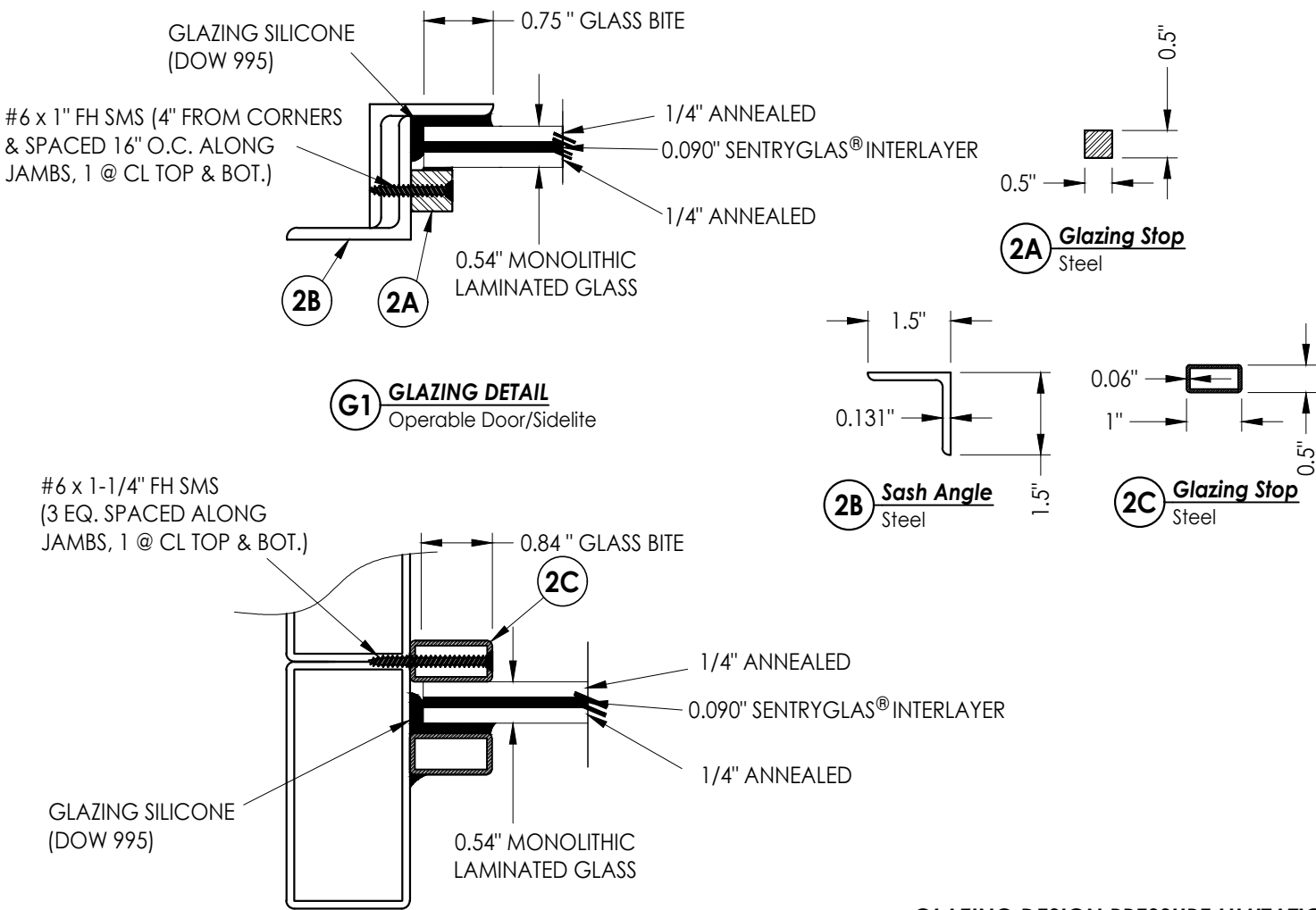
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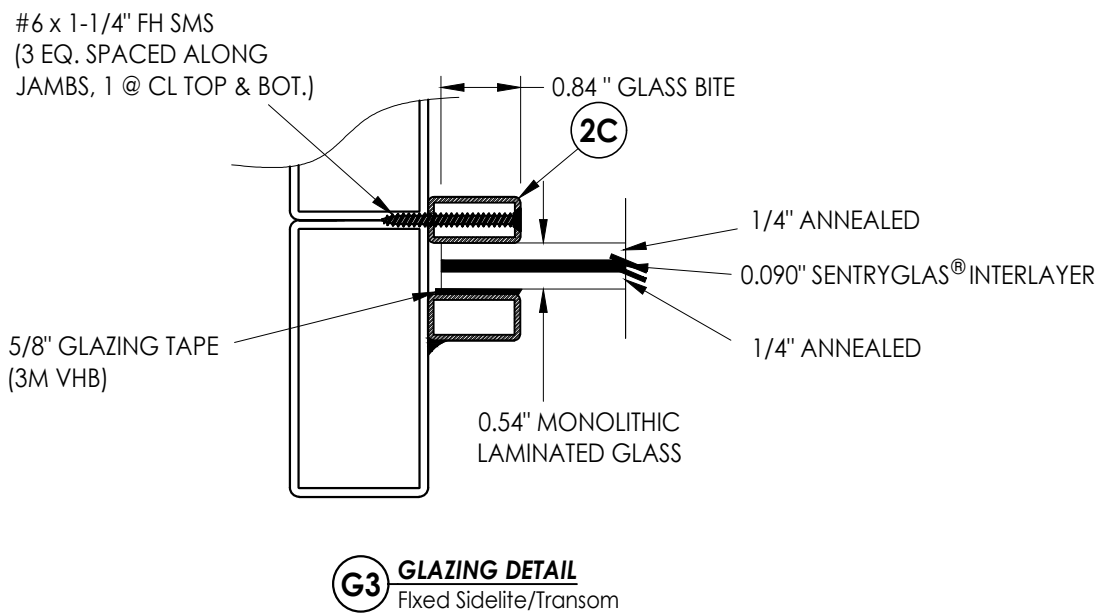
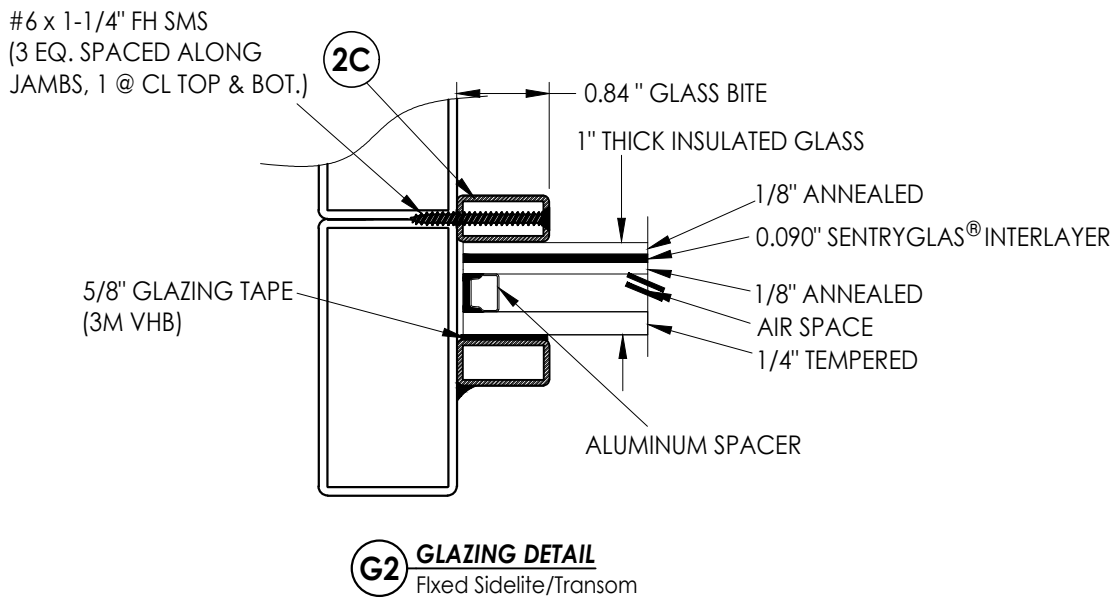
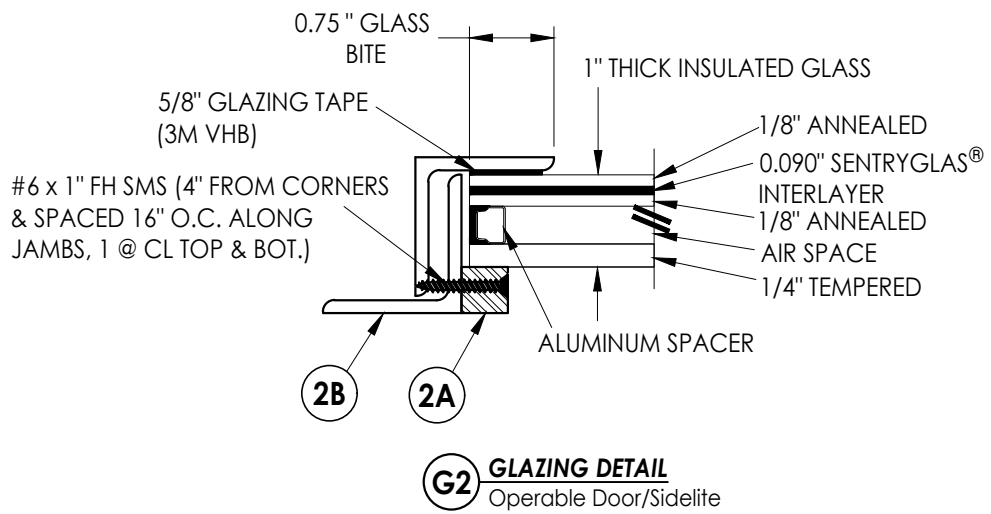
OR ASSEMBLY:
SIDELITE PANEL DETAILS

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	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						
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CHK. BY: LFS						
DRAWING NO.: FL-16663.12						
SHEET 3 OF 13						

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GLAZING DESIGN PRESSURE LIMITATIONS		
GLAZING	MAX. DESIGN PRESSURE (PSF)	
	POS.	NEG.
G1	+75.0	-75.0
G2, G3	+65.0	-65.0



Documents Prepared By:
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P.E. No. 43409

PRODUCT:
CLARK HALL IRON DOORS

PART OR ASSEMBLY:
GLAZING DETAILS

REVISIONS

NO.	DATE	BY
4	7/05/23	LFS
3	9/09/20	LFS
2	8/30/17	LFS
1	8/17/15	LFS

DATE: 11/8/13

SCALE: N.T.S.

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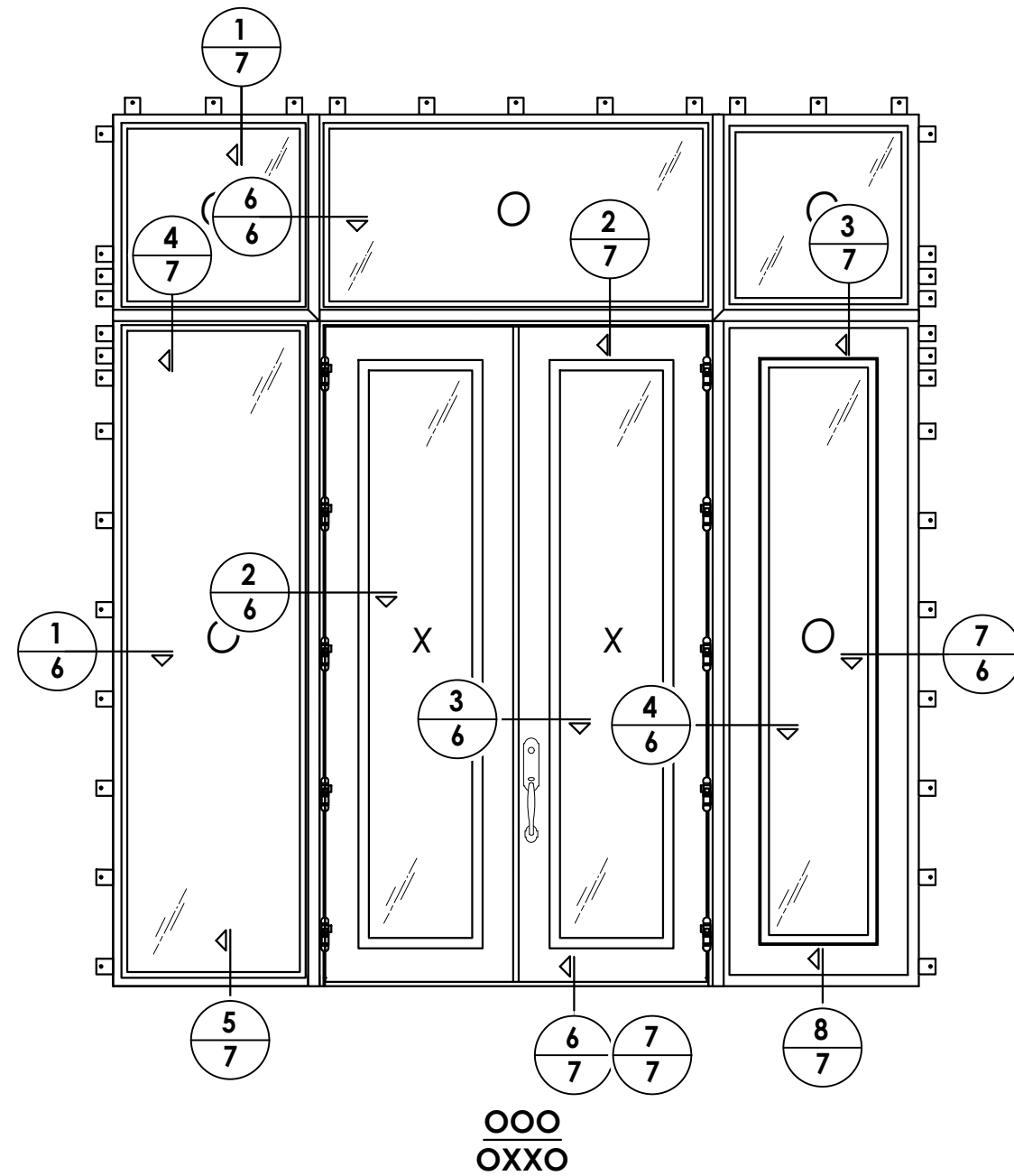
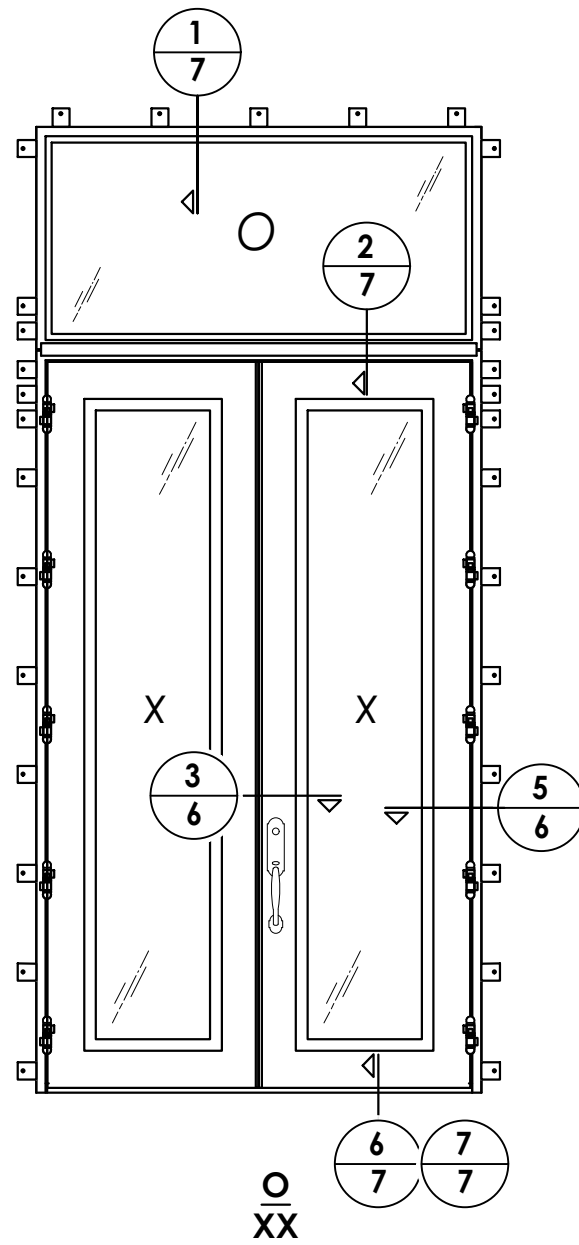
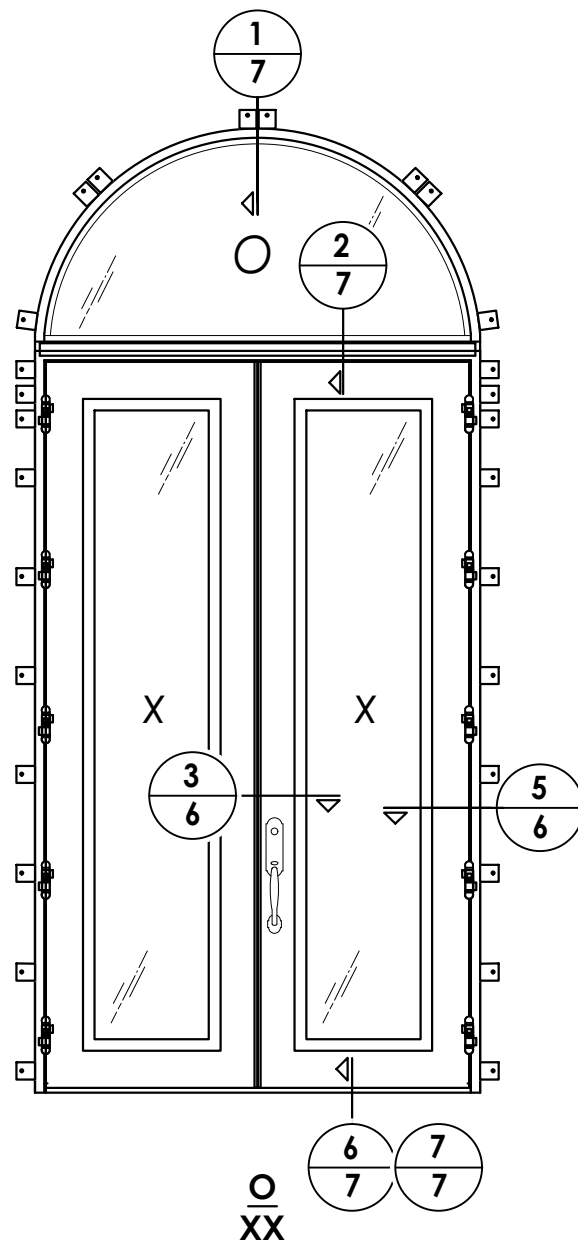
CHK. BY: LFS

DRAWING NO.: FL-16663.12

SHEET 4 OF 13

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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

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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	

DATE: 11/8/13

SCALE: *N.T.S.*

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-16663.12

SHEET 5 OF 13

PRODUCT: CLARK HALL IRON DOORS

PART OR ASSEMBLY:

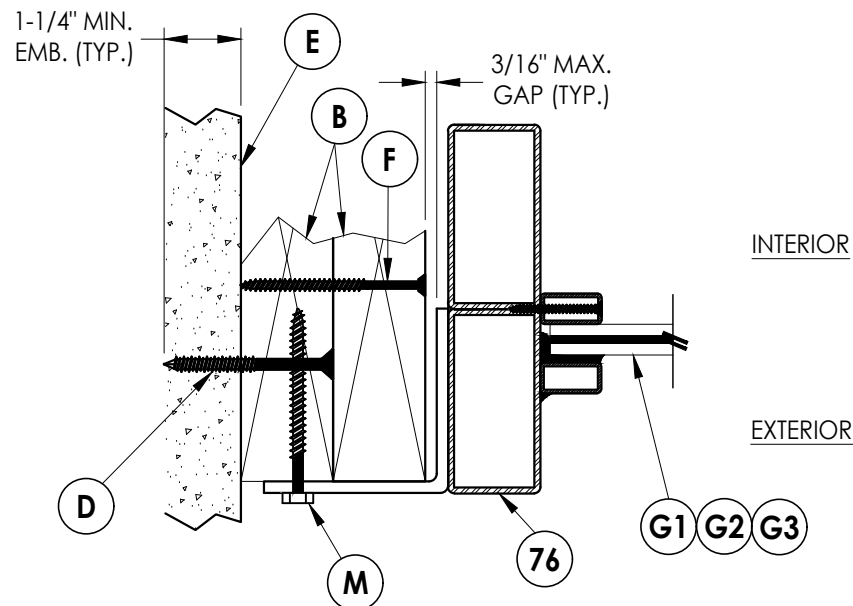
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33386
Phone No.: 813.659.9197

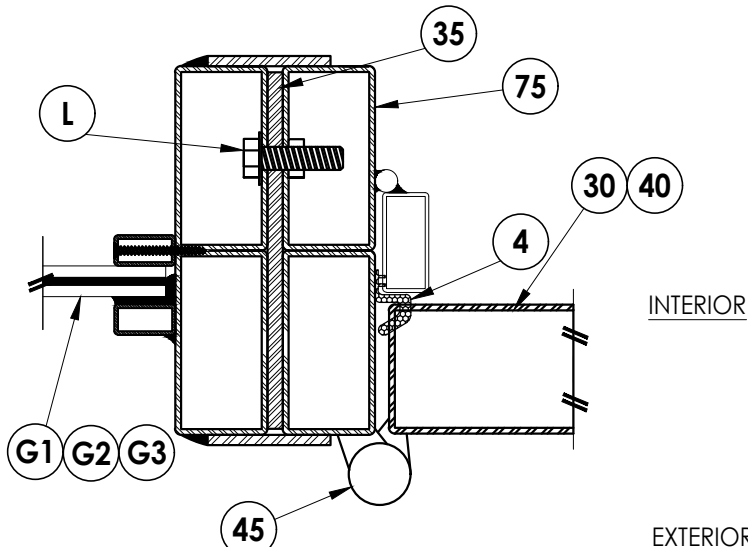
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Phone No.: 813.659.9197
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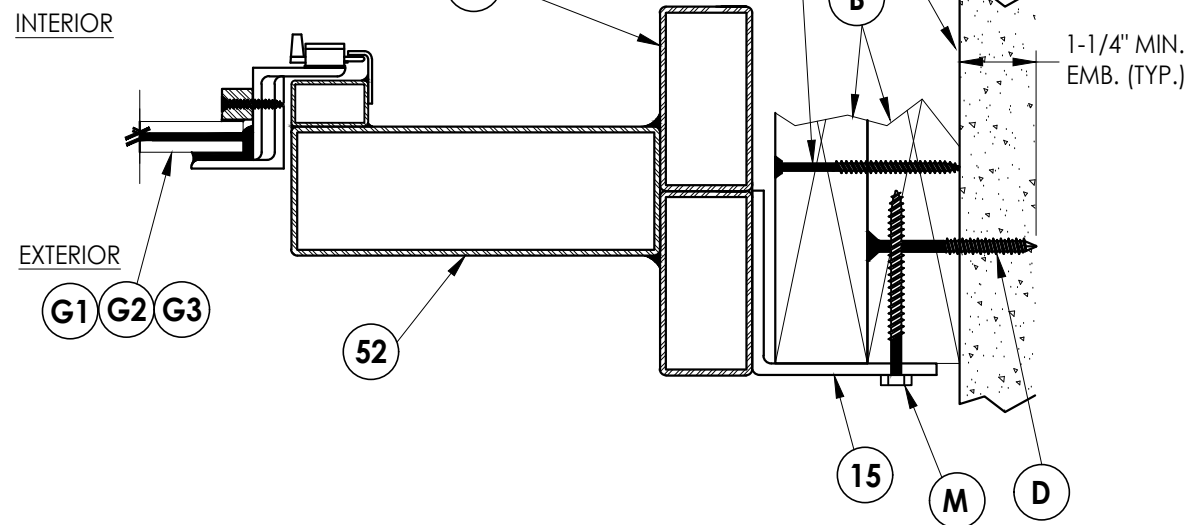
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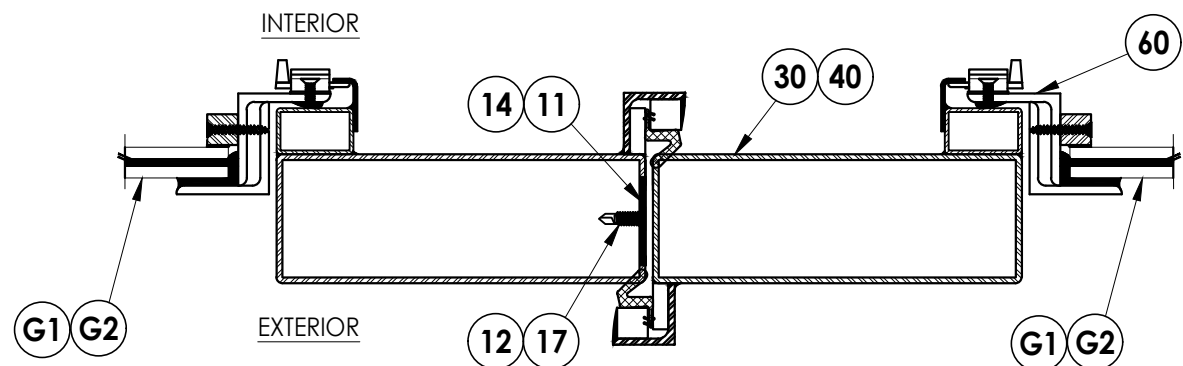
1
6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



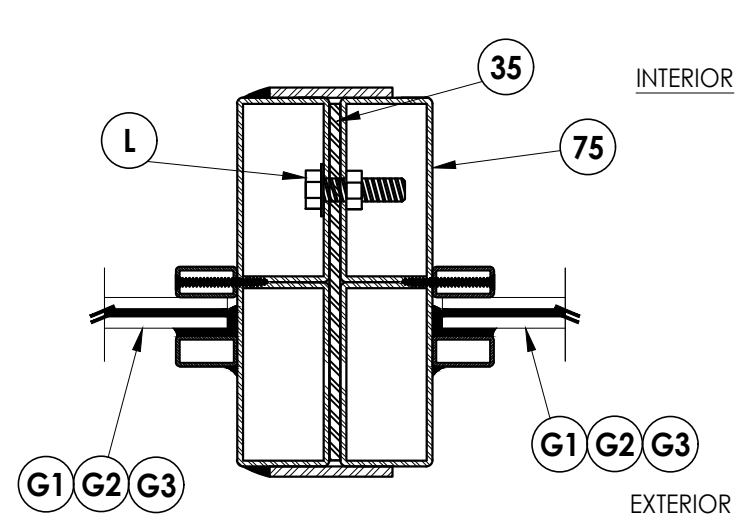
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6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



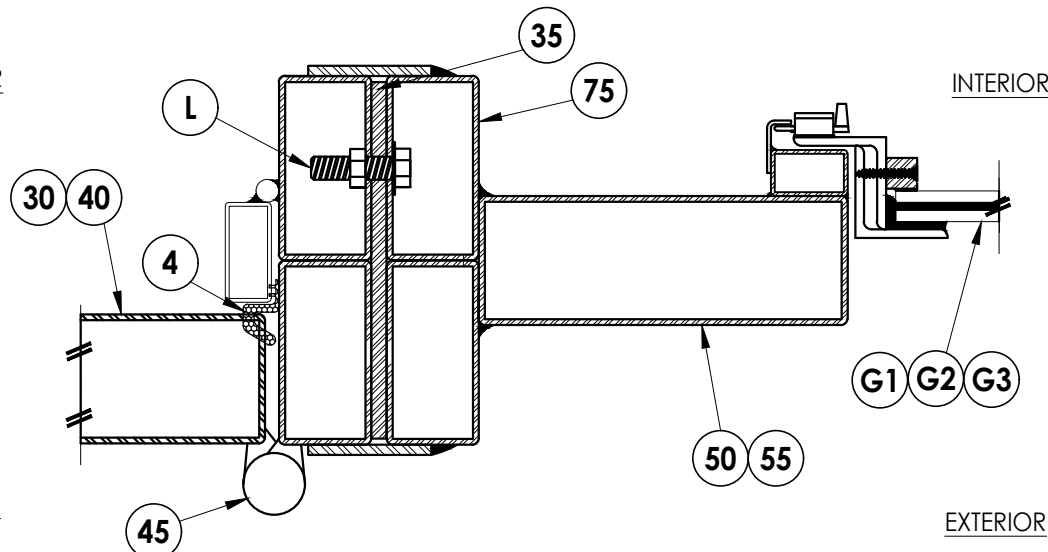
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6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



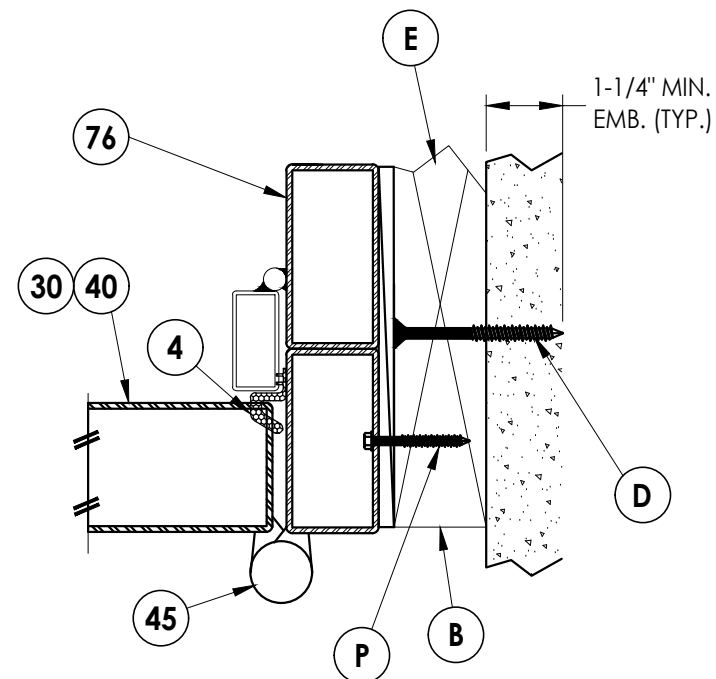
3
6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



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



4
6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



5
6 **HORIZONTAL CROSS SECTION**
Shown w/ Optional Through the Frame Anchoring

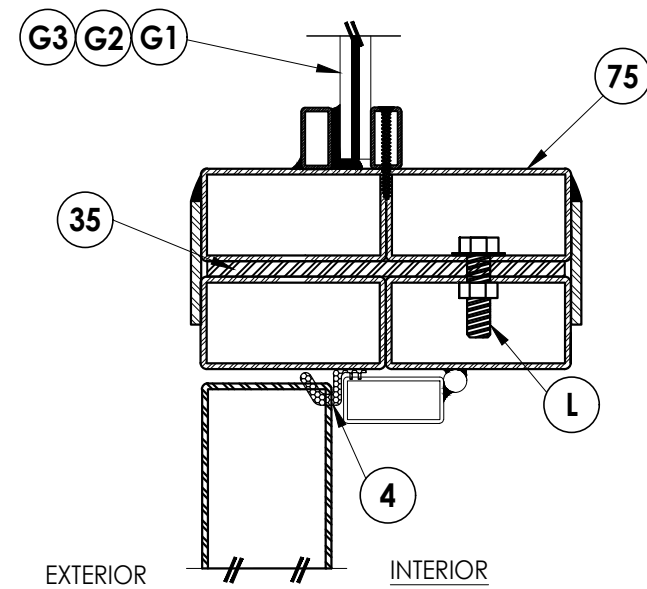
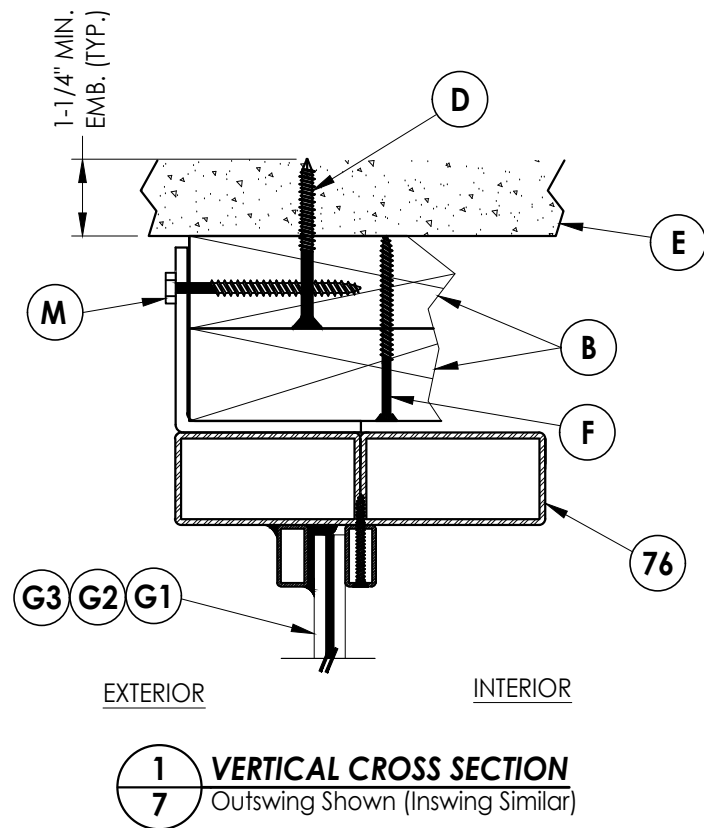
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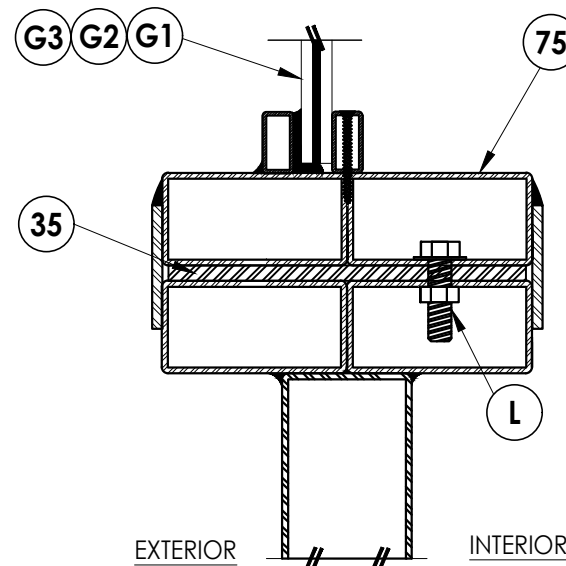
PRODUCT:
CLARK HALL IRON DOORS

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

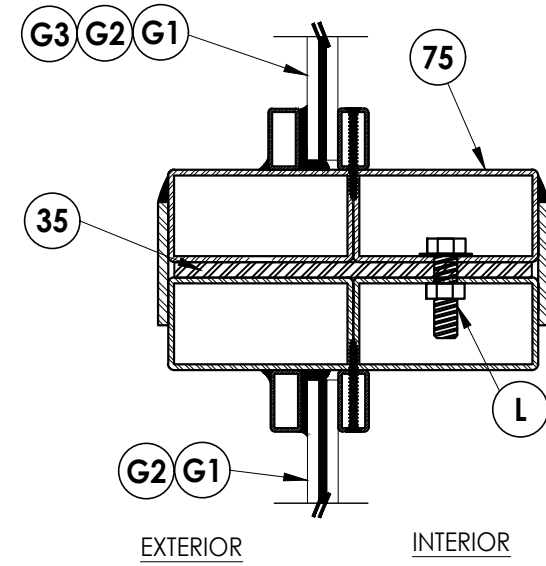
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				NO.	DATE	BY	
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			LFS	2	8/30/17	UPDATE TO 6TH ED. (2017) FBC	
			LFS	1	8/17/15	UPDATE TO 5TH ED. (2014) FBC	
DATE: 11/8/13							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-16663.12							
SHEET 6 OF 13							



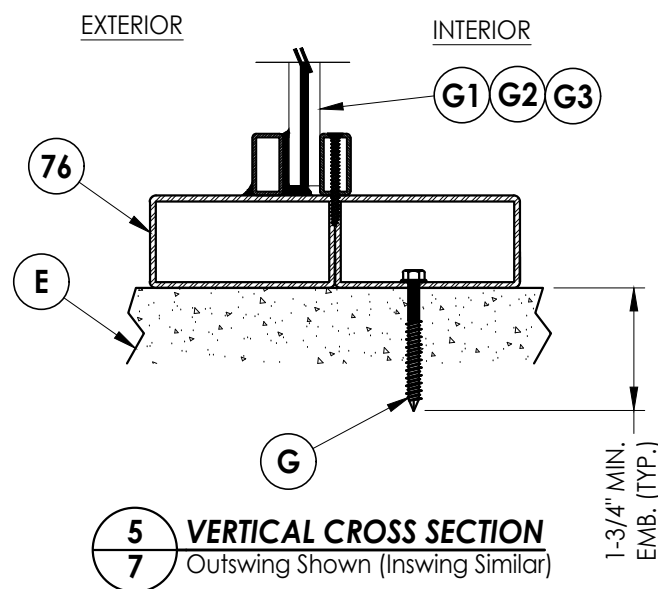
2 **VERTICAL CROSS SECTION**
7 Outswing Shown (Inswing Similar)



3 7 **VERTICAL CROSS SECTION** Outswing Shown (Inswing Similar)

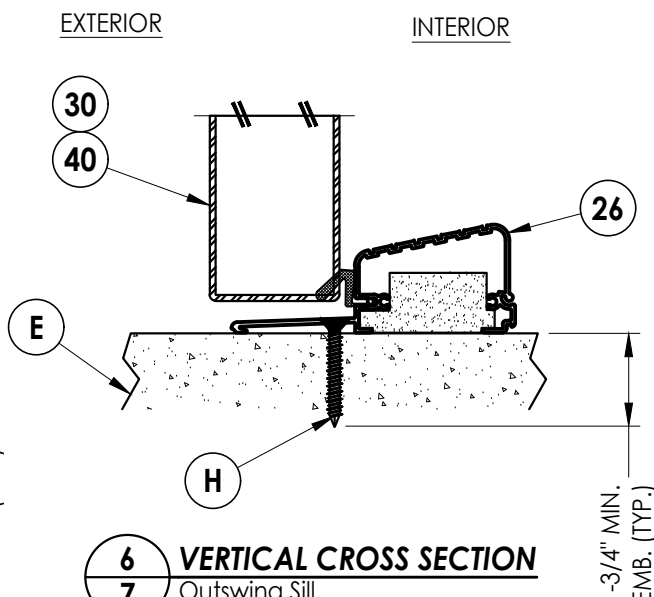


4 **VERTICAL CROSS SECTION**
7 Outswing Shown (Inswing Similar)

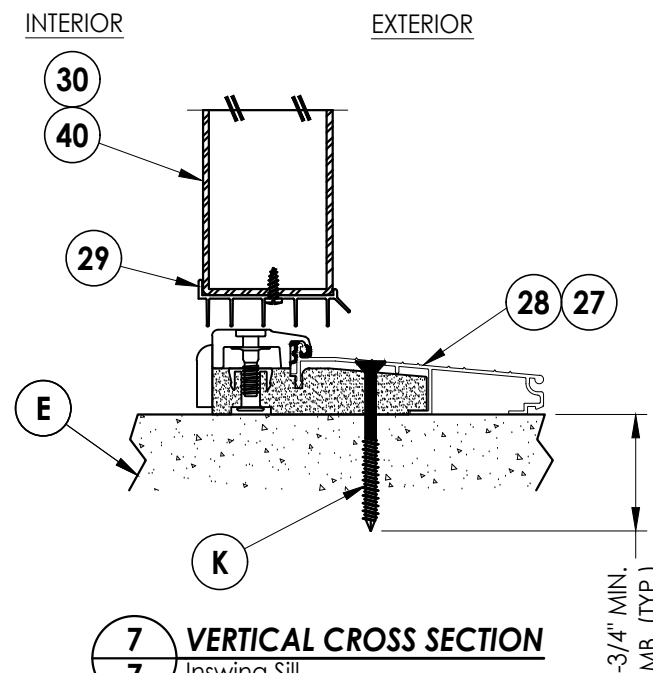


5 VERTICAL CROSS SECTION

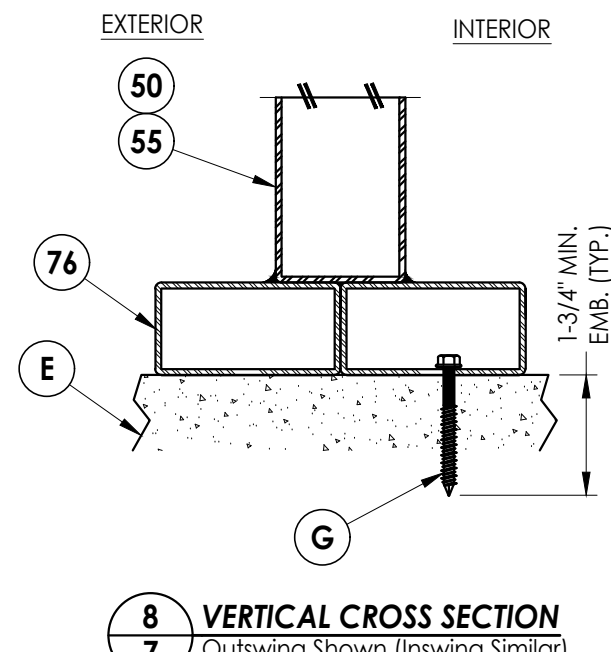
7 Outswing Shown (Inswing Similar)



6 VERTICAL CROSS SECTION



7 VERTICAL CROSS SECTION

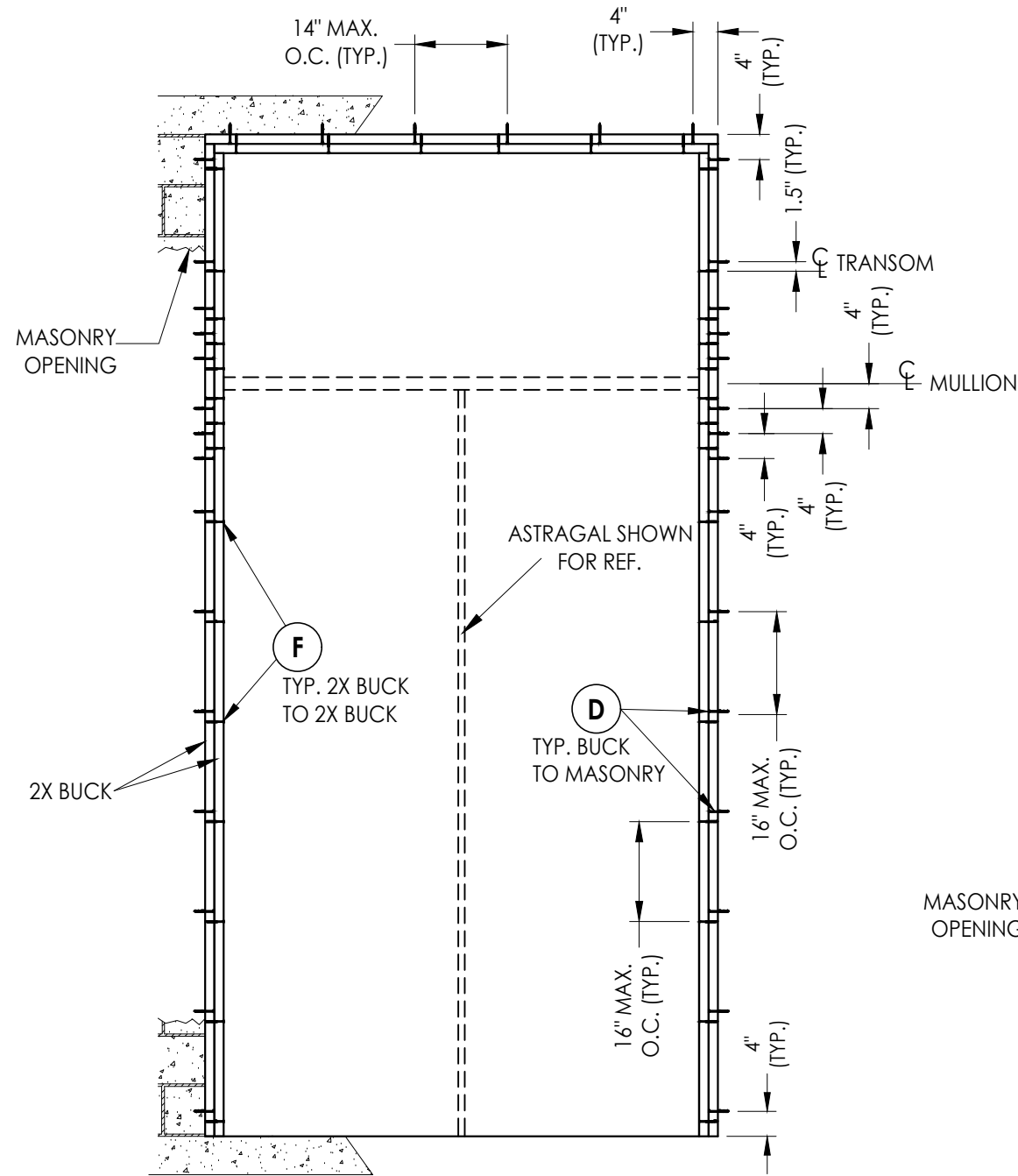


8 VERTICAL CROSS SECTION
7 Outswing Shown (Inswing Similar)

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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	
NO.	DATE				BY
					REVISIONS
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SHEET 7 OF 13					

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BUCK ANCHORING
XX

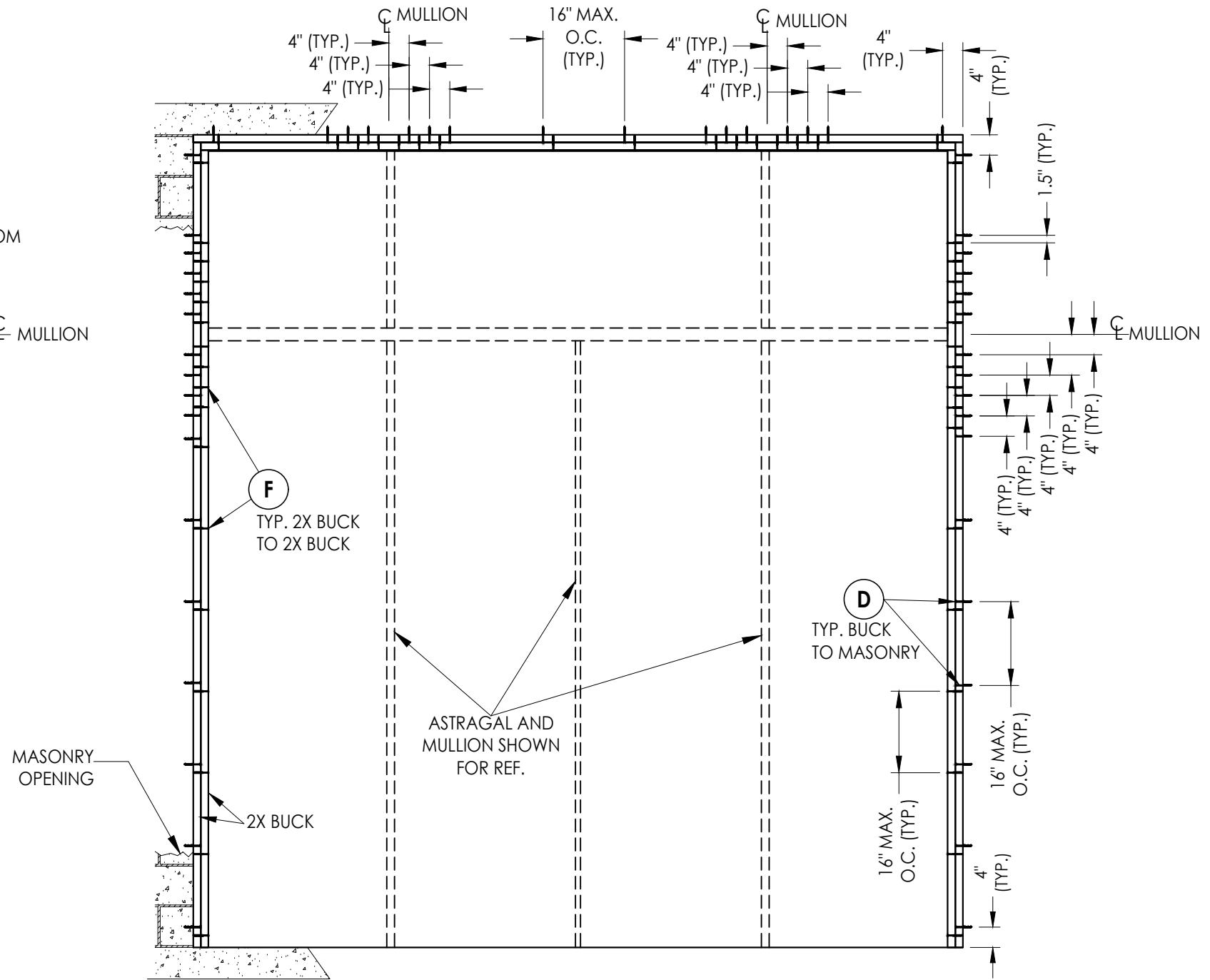
CONCRETE ANCHOR NOTES:

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"	2-1/2"	4"
DeWALT ULTRA-CON®	1/4"	1-1/4"	2-1/2"	4"

- ### 1. 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.



BUCK ANCHORING
OXO

[illegible]

DATE: 11/8/13

SCALE: *N.T.S.*

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-16663.12

SHEET 8 OF 13

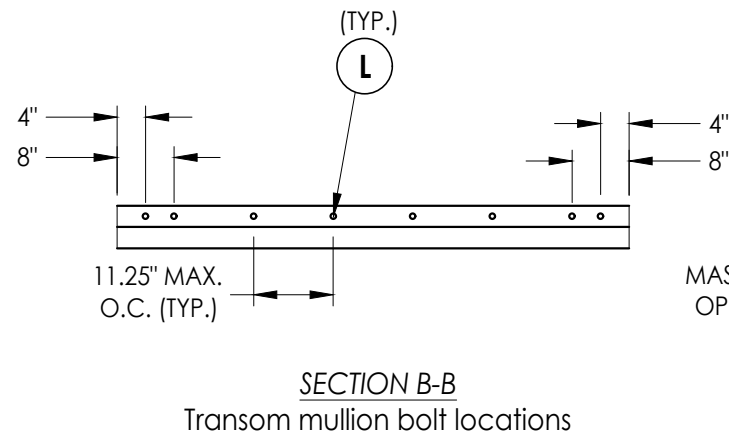
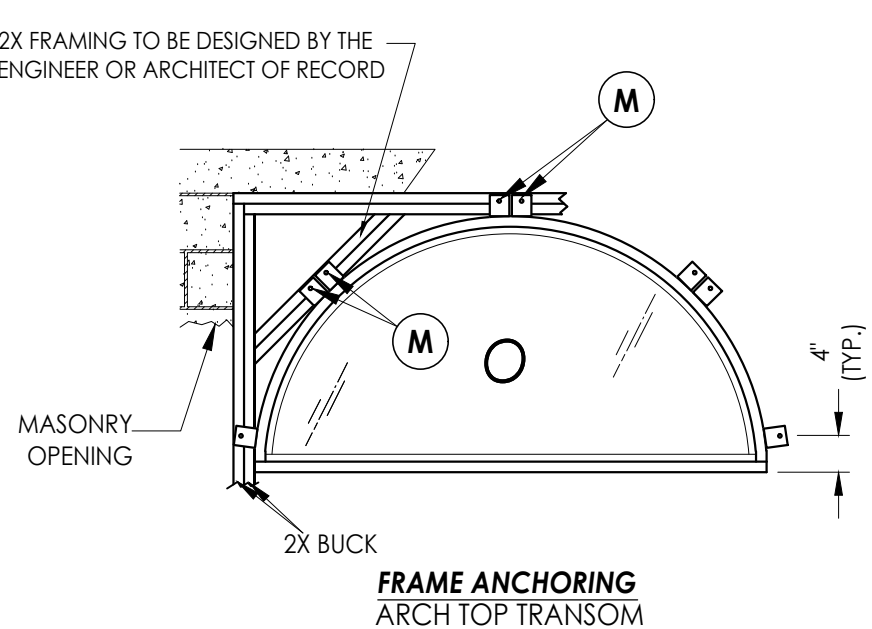
Documents Prepared By:
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Phone No.: 813.659.9197
FBPE Registry No. 9813

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2X FRAMING TO BE DESIGNED BY THE
ENGINEER OR ARCHITECT OF RECORD



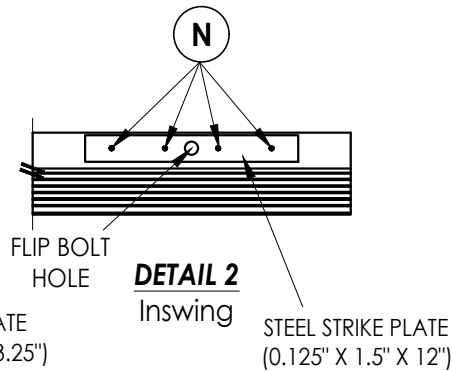
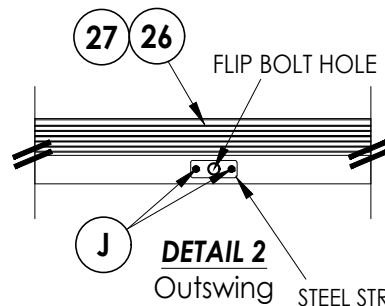
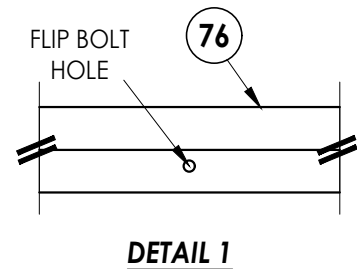
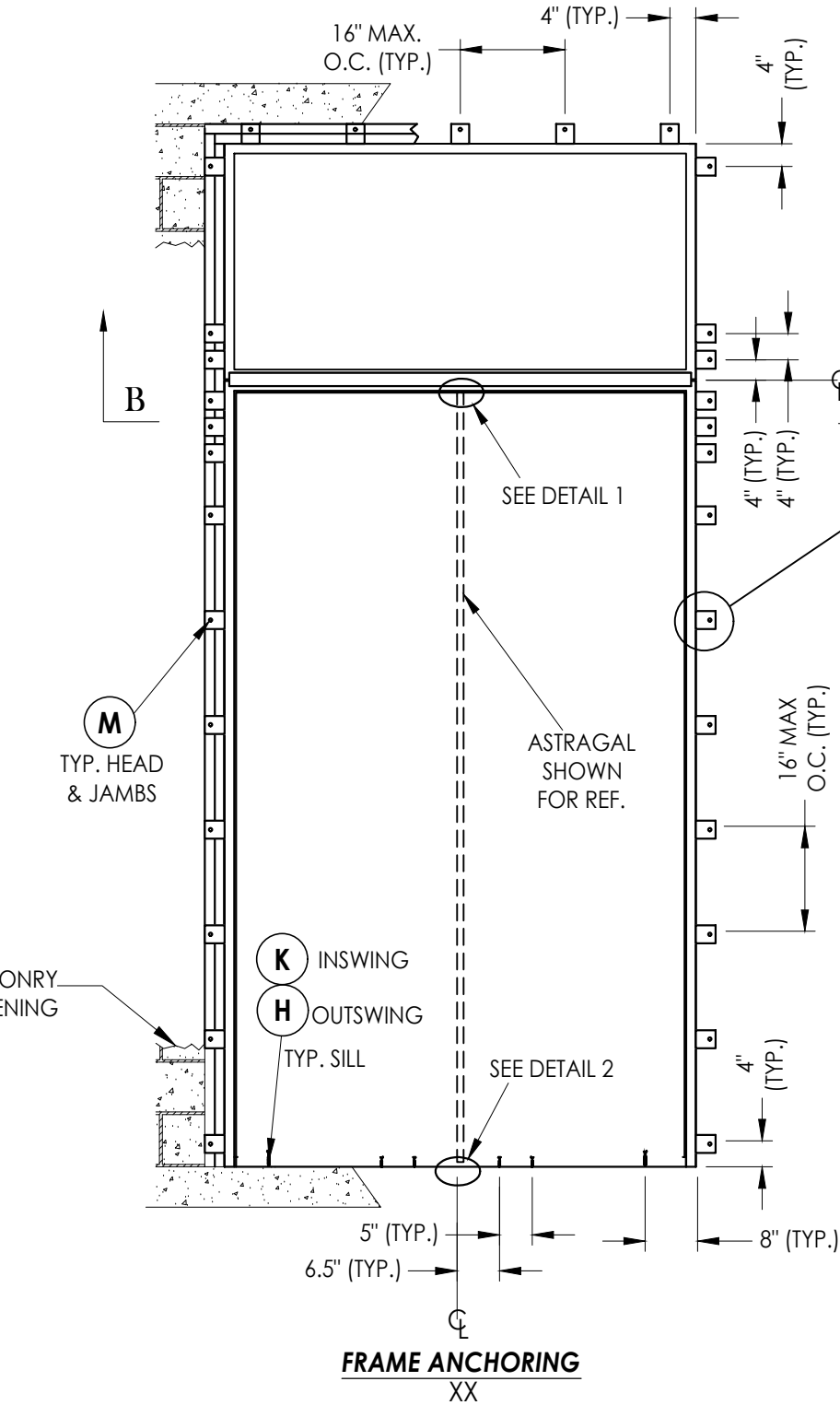
CONCRETE ANCHOR NOTES:

- 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:

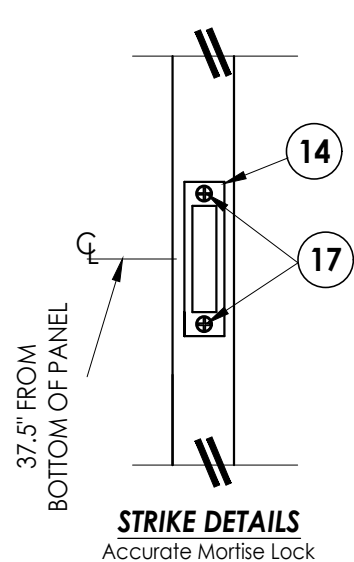
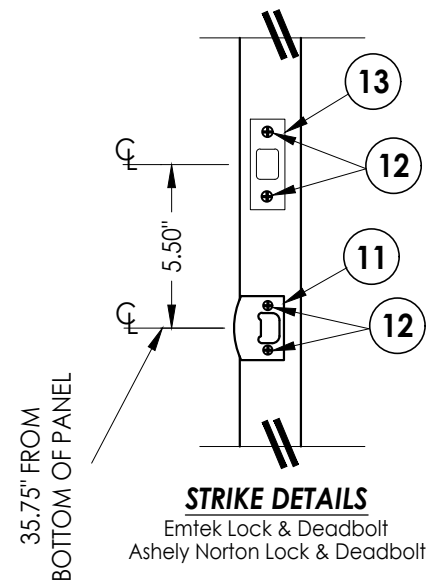
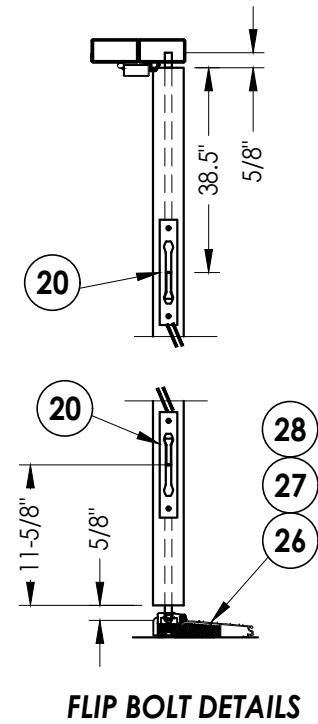
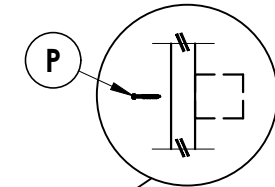
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	3/16"	1-1/4"	3"	2-1/2"
	5/16" (XL)	1-3/4"	2-1/2"	5"
DeWALT ULTRACON®	5/16"	1-3/4"	2-1/2"	5"

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.



ALTERNATE ANCHORING
THROUGH THE FRAME
SUBSTITUTE ANCHOR @ EACH BRACKET



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

PRODUCT:
CLARK HALL IRON DOORS

PART OR ASSEMBLY:

FRAME ANCHORING

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

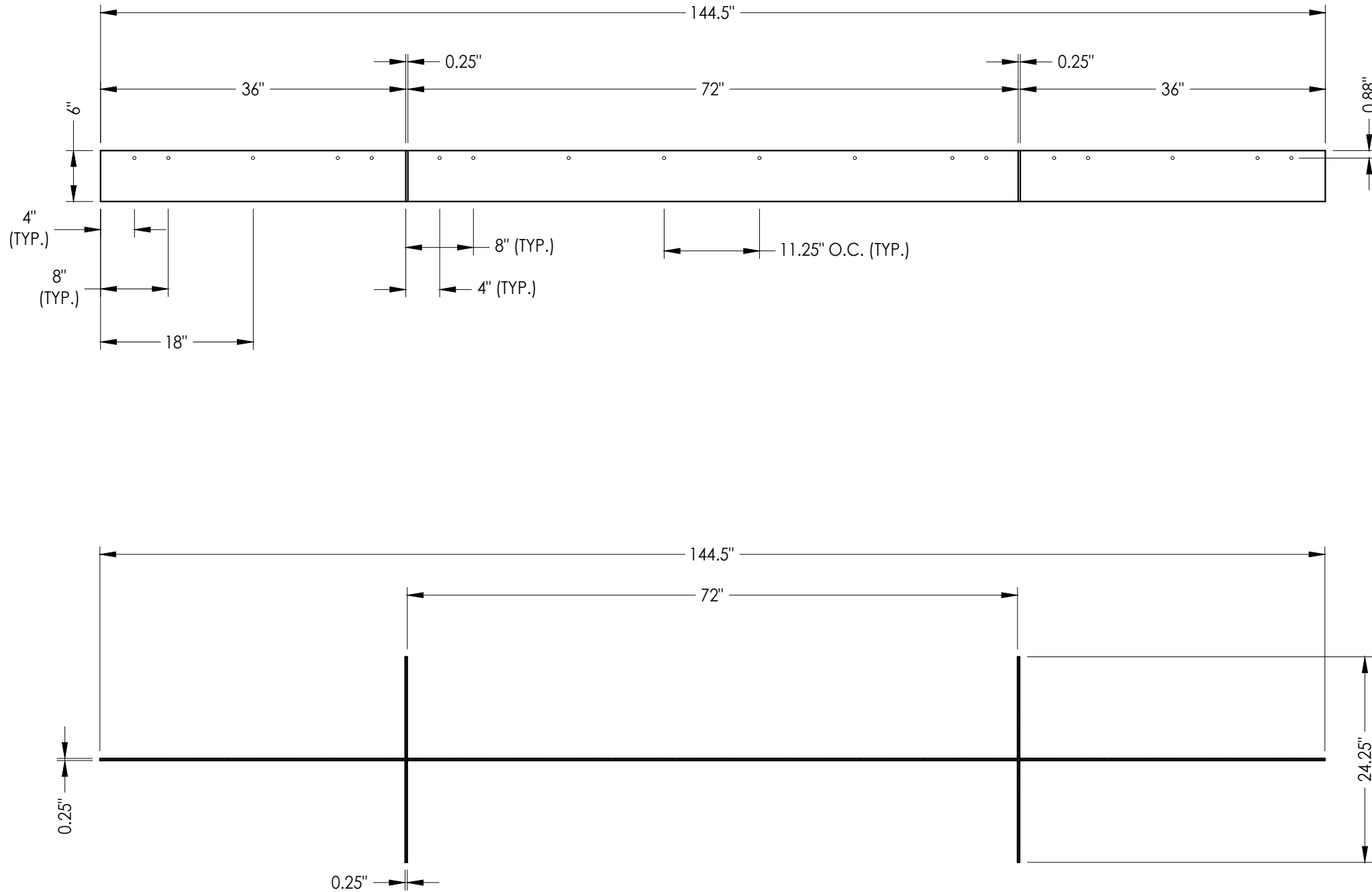
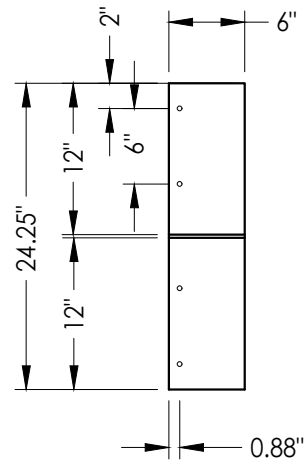
CHK. BY: LFS

DRAWING NO.: FL-16663.12

SHEET 9 OF 13

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

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35 MULLION REINFORCEMENT

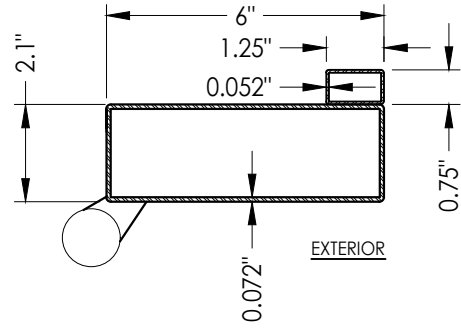
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PRODUCT:	CLARK HALL IRON DOORS
PART OR ASSEMBLY:	MULLION REINFORCEMENT

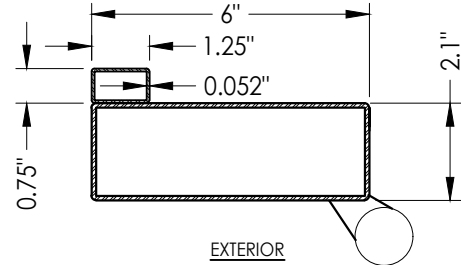
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

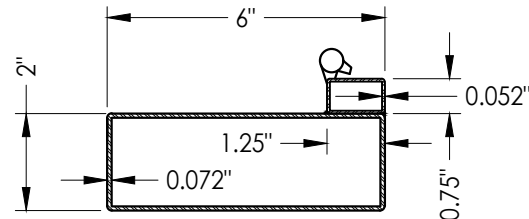
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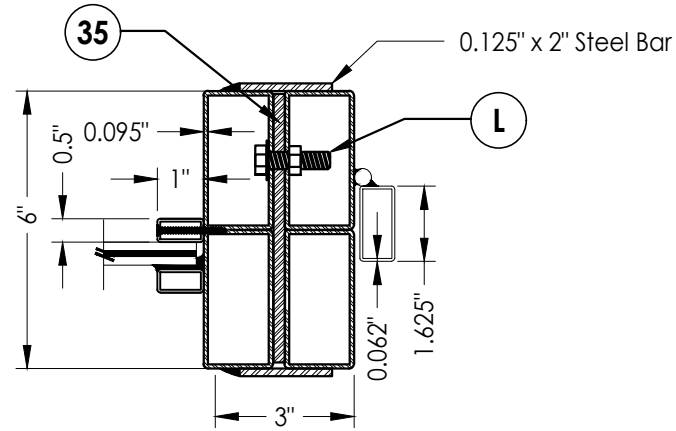
41 Full Life Door Panel
Inactive Hinge Stile



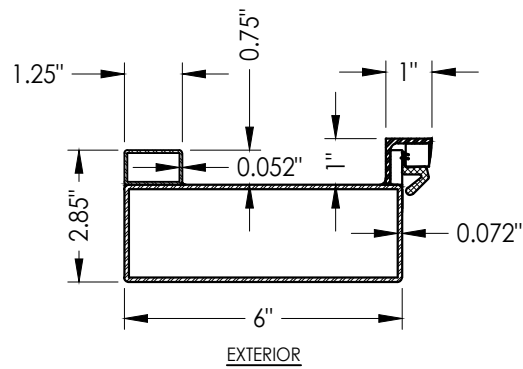
31 Full Life Door Panel
Active Hinge Stile



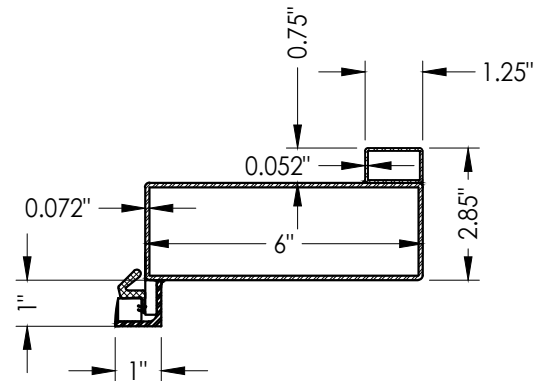
51 Sidelite Panel
Operable Sash Hinge Stile



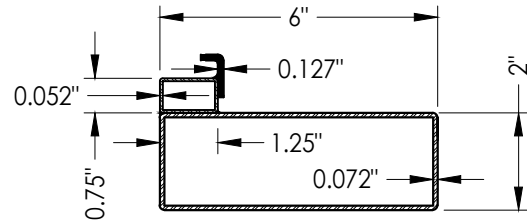
75 MULLION
Vertical with Direct Set Sidelite shown
(Horizontal Mullion Similar)



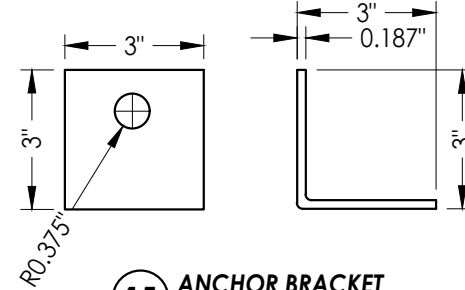
42 Full Life Door Panel
Inactive Latch Stile



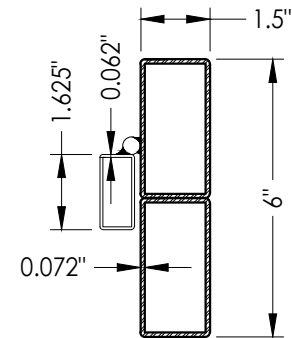
32 Full Life Door Panel
Active Latch Stile



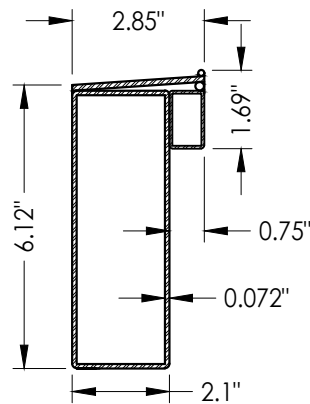
52 Sidelite Panel
Operable Sash Latch Stile



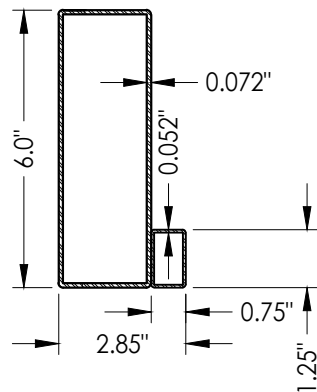
15 ANCHOR BRACKET



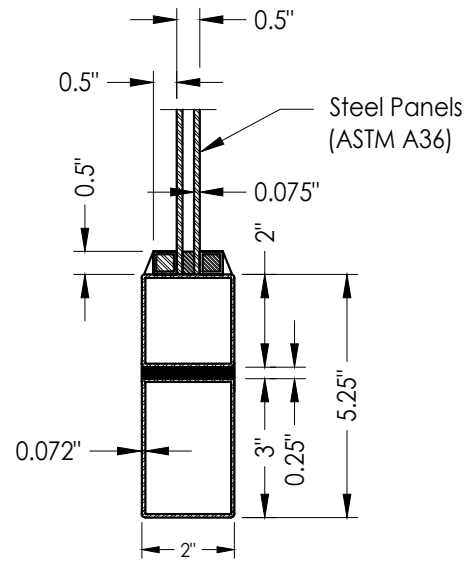
76 Jamb



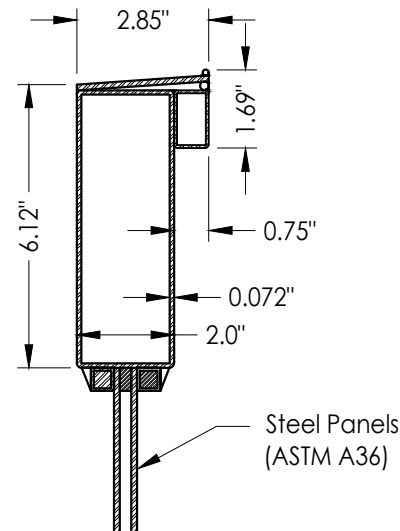
43 Full Life Door Panel
Bottom Rail



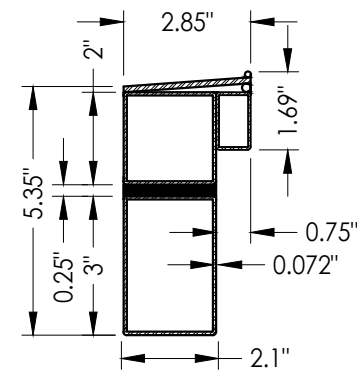
44 Full Life Door Panel
Top Rail



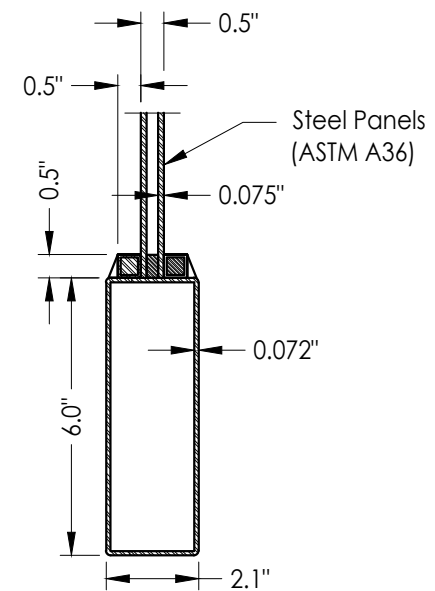
54 Bottom Rail
3/4 Lite Sidelite Panel



56 Mid Rail
3/4 Lite Sidelite Panel



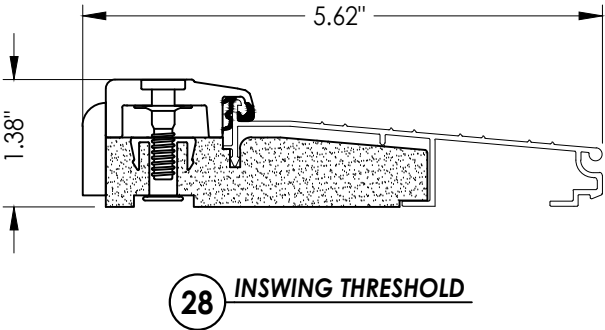
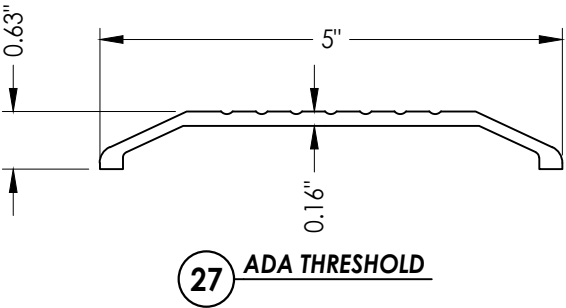
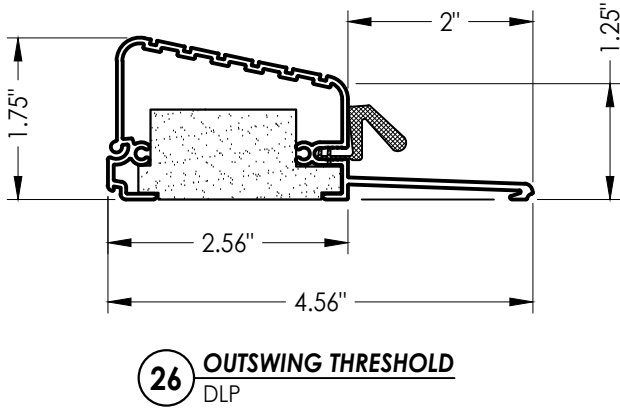
53 Bottom Rail
Sidelite Panel



57 Bottom Rail
3/4 Lite Door Panel

Documents Prepared By:		Lyndon F. Schmidt		P.E. No. 43409	
PRODUCT:		CLARK HALL IRON DOORS		BUILDING CONSULTANTS, INC.	
PART OR ASSEMBLY:		COMPONENTS		P.O. Box 230, Vairico, FL 33595	
REVISONS		DATE		Phone No.: 813.659.9197	
NO.		DATE		FBPE Registry No. 9813	
4		7/05/23		UPDATE TO 8TH ED. (2023) FBC	
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1		8/17/15		UPDATE TO 5TH ED. (2014) FBC	
DATE:		11/8/13			
SCALE:		N.T.S.			
DWG. BY:		JK			
CHK. BY:		LFS			
DRAWING NO.:		FL-16663.12			
SHEET		12		OF 13	

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
J	3/16" X 2-1/4" PFH 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
N	3/16" X 2-3/4" PFH ITW CONCRETE SCREW	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)	-
41	HINGE STILE (INACTIVE DOOR)	ASTM A36 STEEL
42	LATCH STILE (INACTIVE DOOR)	ASTM A36 STEEL
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



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