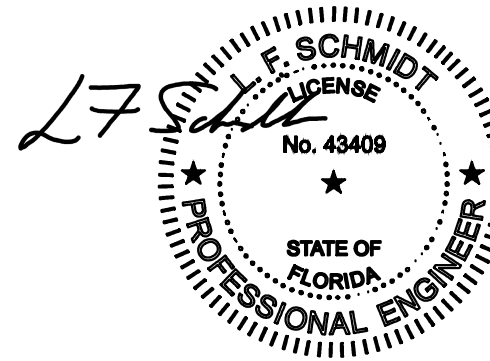


Clark Hall Iron Doors

GLAZED IRON DOUBLE DOOR (Arch Top & Eyebrow)

INSWING/OUTSWING
"IMPACT"



Digitally signed by Lyndon F Schmidt
Date: 2023.07.05 08:41:25 -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

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

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. 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.
7. All steel shall be protected as specified in Section 2222.6 of the FBC.

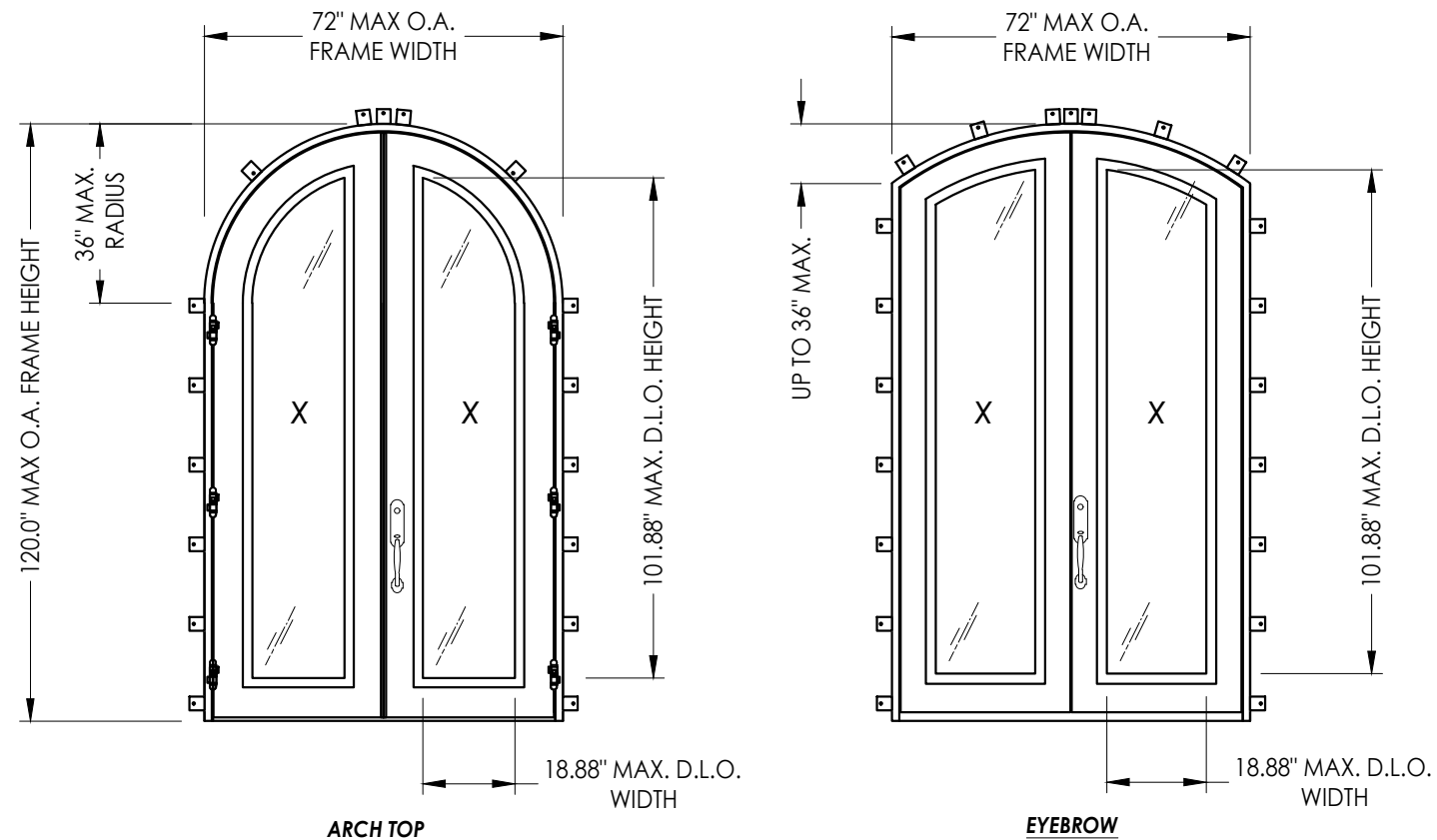


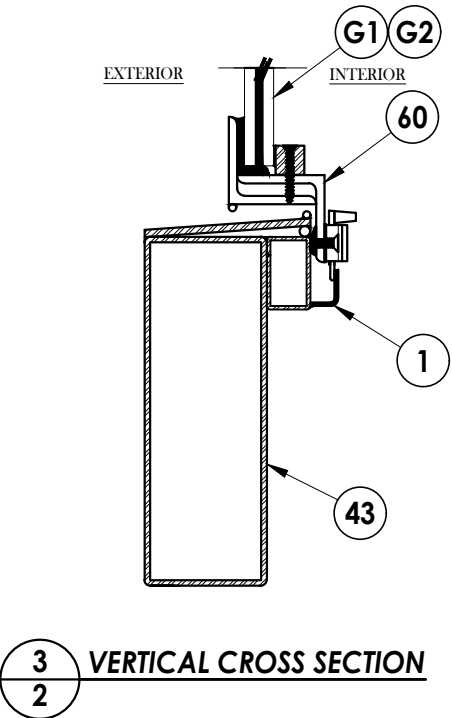
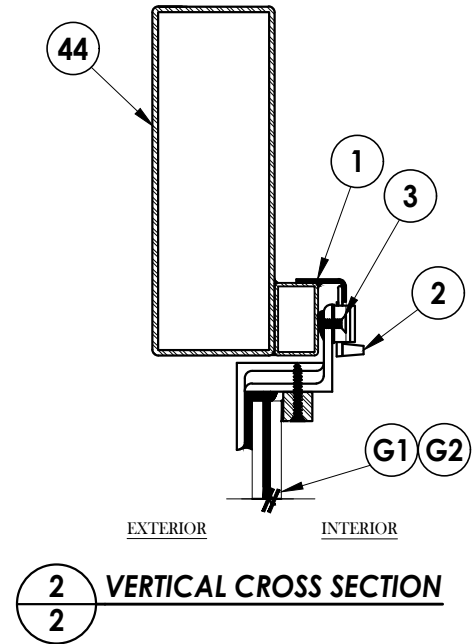
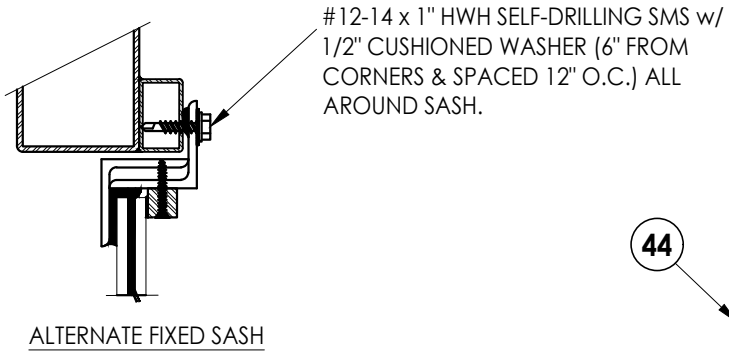
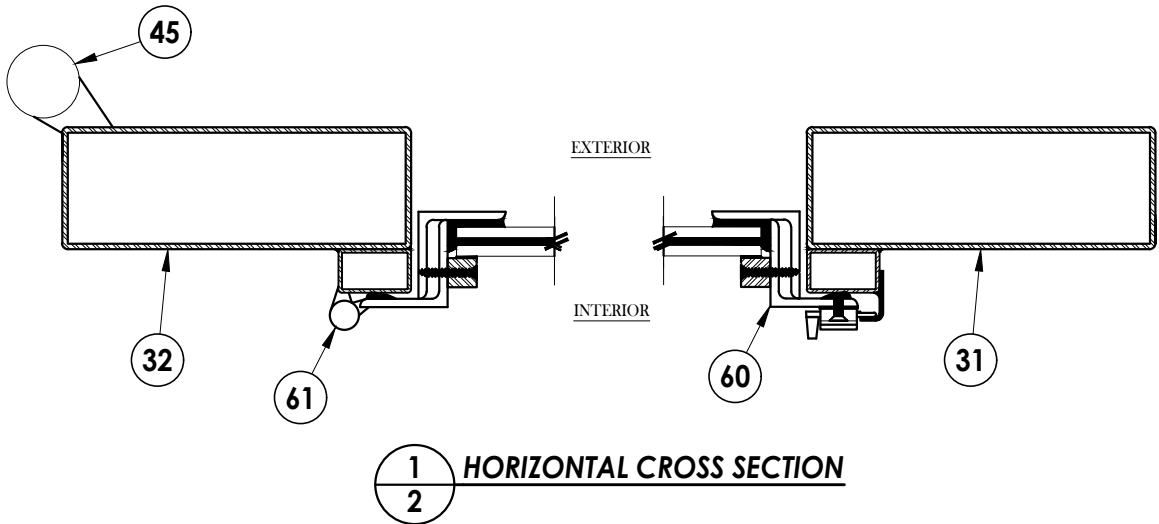
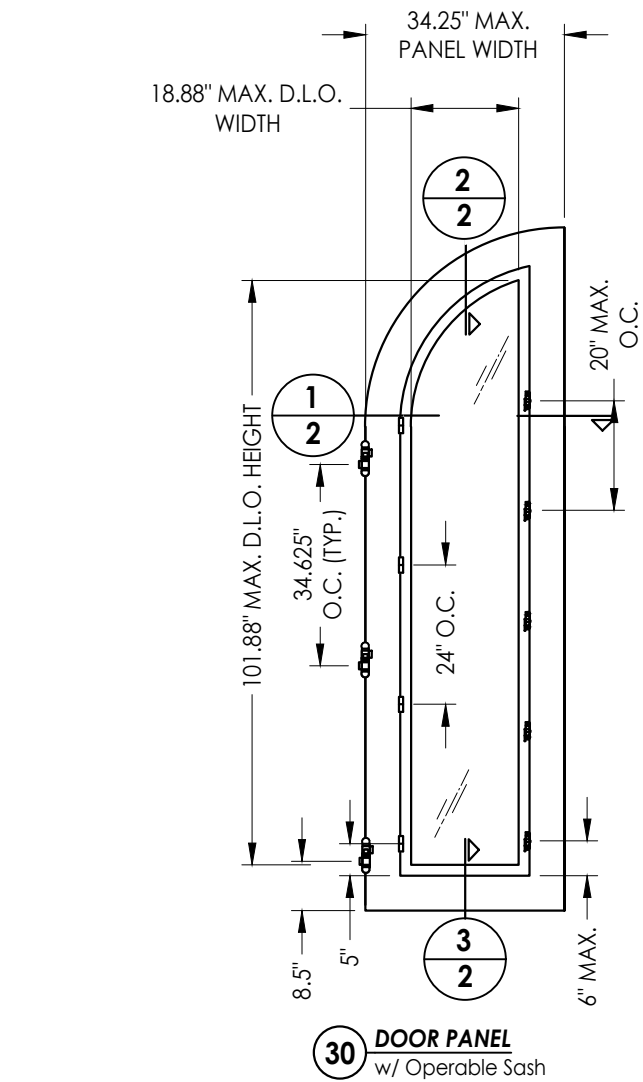
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures, & general notes
2	Door panel details
3	Glazing details
4	Horizontal cross sections
5	Vertical cross sections
6	Buck & Frame anchoring
7	Components
8	Bill of materials & components

CONFIGURATION	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)			
		INSWING		OUTSWING	
		POS.	NEG.	POS.	NEG.
XX	72.0" x 120.0"	+65.0	-65.0	+75.0	-75.0

NOTE: See Sheets 3 & 4 for glazing and lock hardware design pressure limitations.

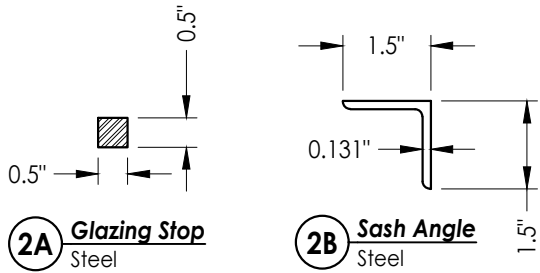
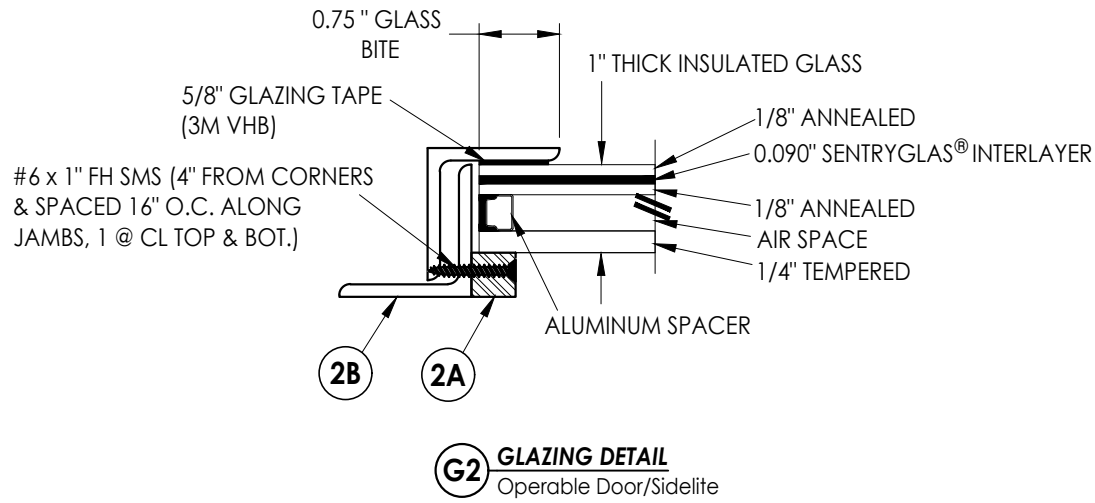
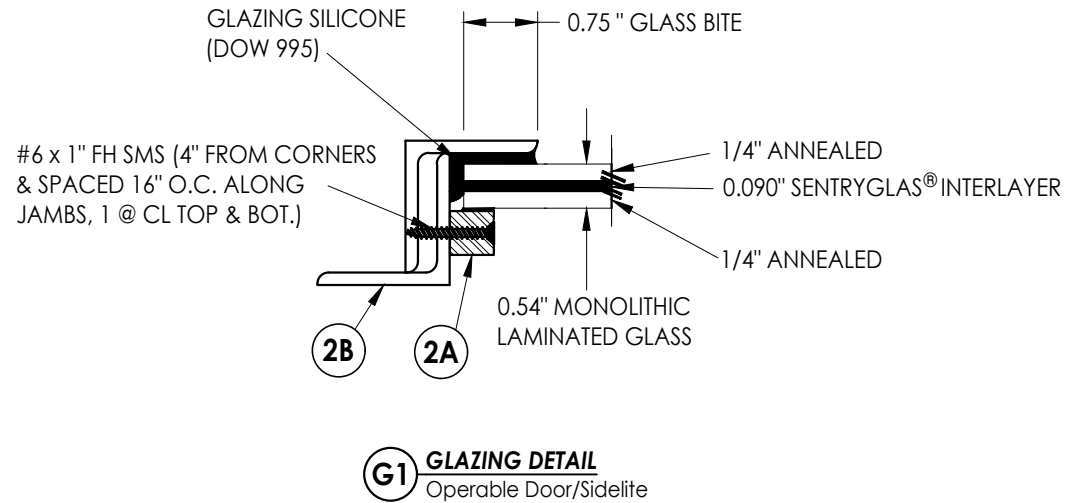
DATE: 10/30/13		PRODUCT: CLARK HALL IRON DOORS	
SCALE: N.T.S.		PART OR ASSEMBLY: TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES	
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-16663.16			
SHEET 1 OF 8			

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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:		CLARK HALL IRON DOORS		PART OR ASSEMBLY: DOOR PANEL DETAILS			
			LFS				
			LFS				
			LFS				
			LFS				
			BY				
				REVISIONS			
				NO.	DATE		
		4	7/05/23	UPDATE TO 8TH ED. (2023)	FBC		
		3	9/09/20	UPDATE TO 7TH ED. (2020)	FBC		
		2	8/30/17	UPDATE TO 6TH ED. (2017)	FBC		
		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-16663.16							
SHEET 2 OF 8							

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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

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-16663.16

SHEET 3 OF 8

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					

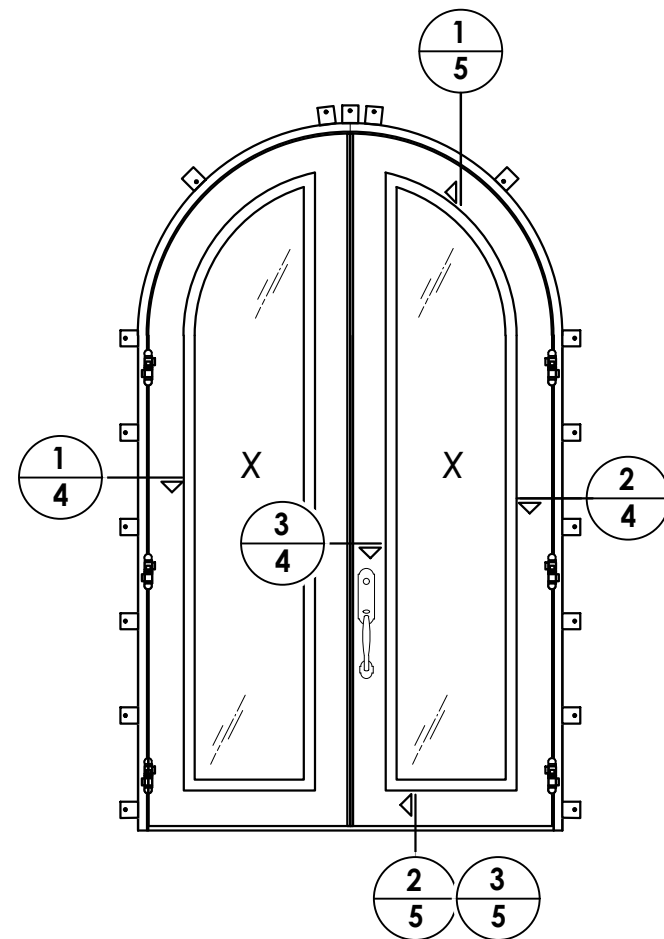
REVISIONS

Building Consultants, Inc.

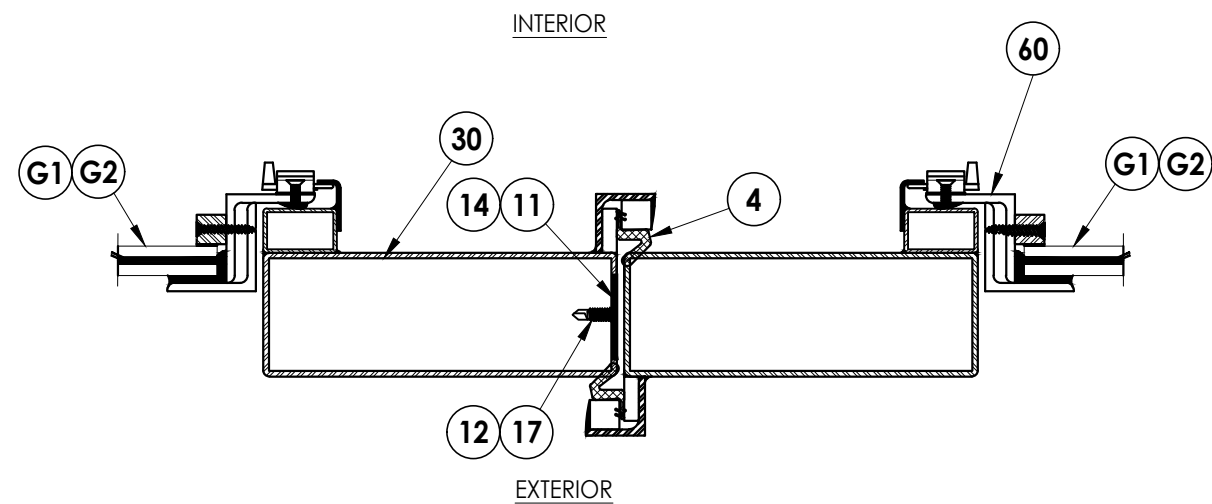
P.O. Box 230, Valrico, FL 33595

Phone No.: 813.659.9197

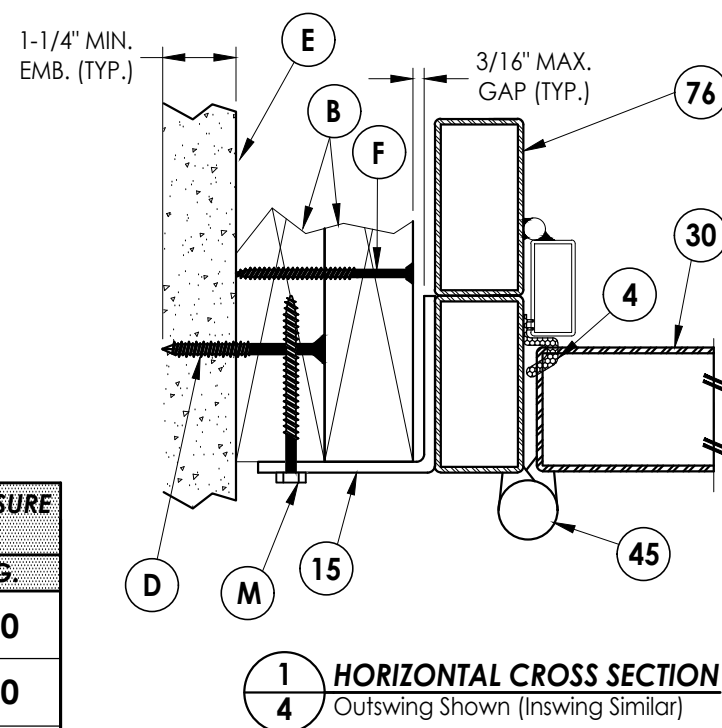
FBPE Registry No. 9813



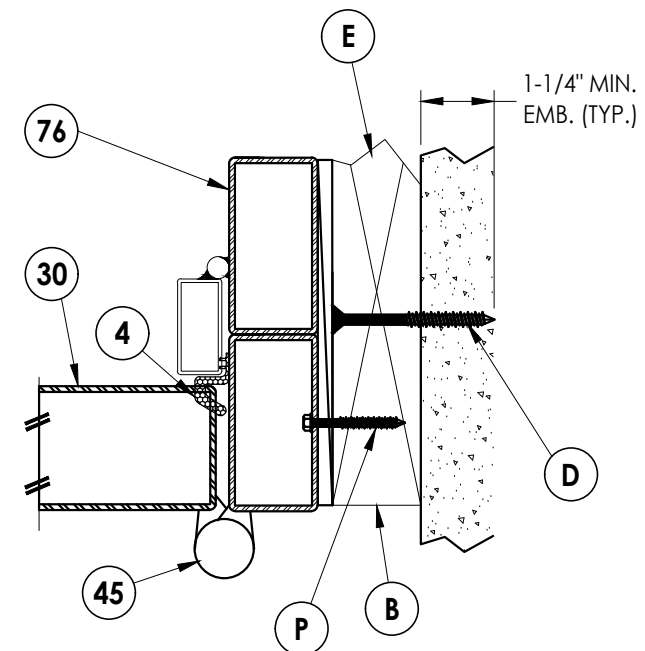
ARCH TOP
(Eyebrow similar)



3 HORIZONTAL CROSS SECTION
7 Outswing Shown (Inswing Similar)



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

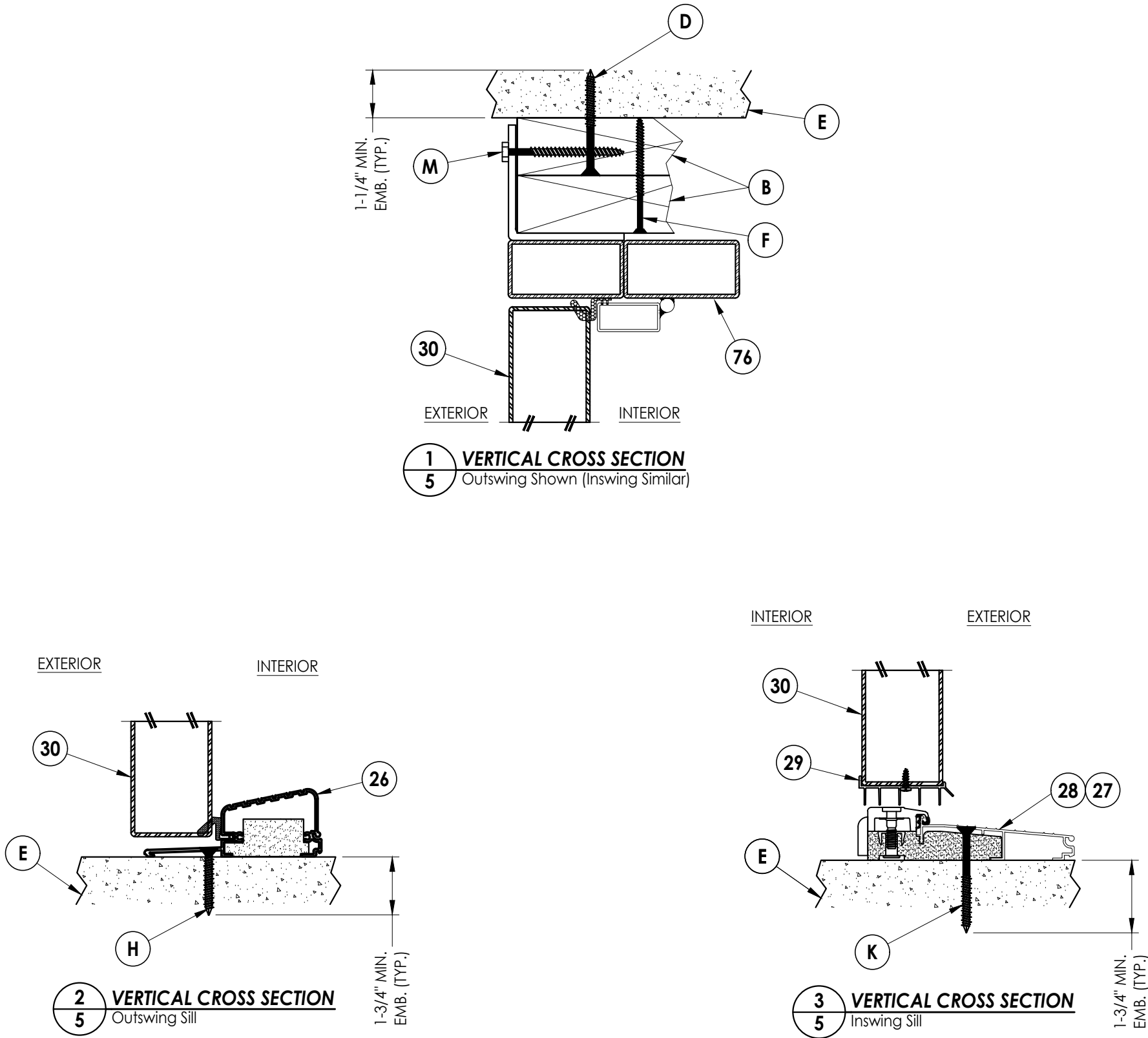


2 **HORIZONTAL CROSS SECTION**
4 Shown w/ Optional Through the Frame Anchoring

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

DATE: 10/30/13		PRODUCT: CLARK HALL IRON DOORS			
SCALE: N.T.S.		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS			
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-16663.16					
SHEET 4 OF 8					
		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: 10/30/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-16663.16
SHEET 5 OF 8

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

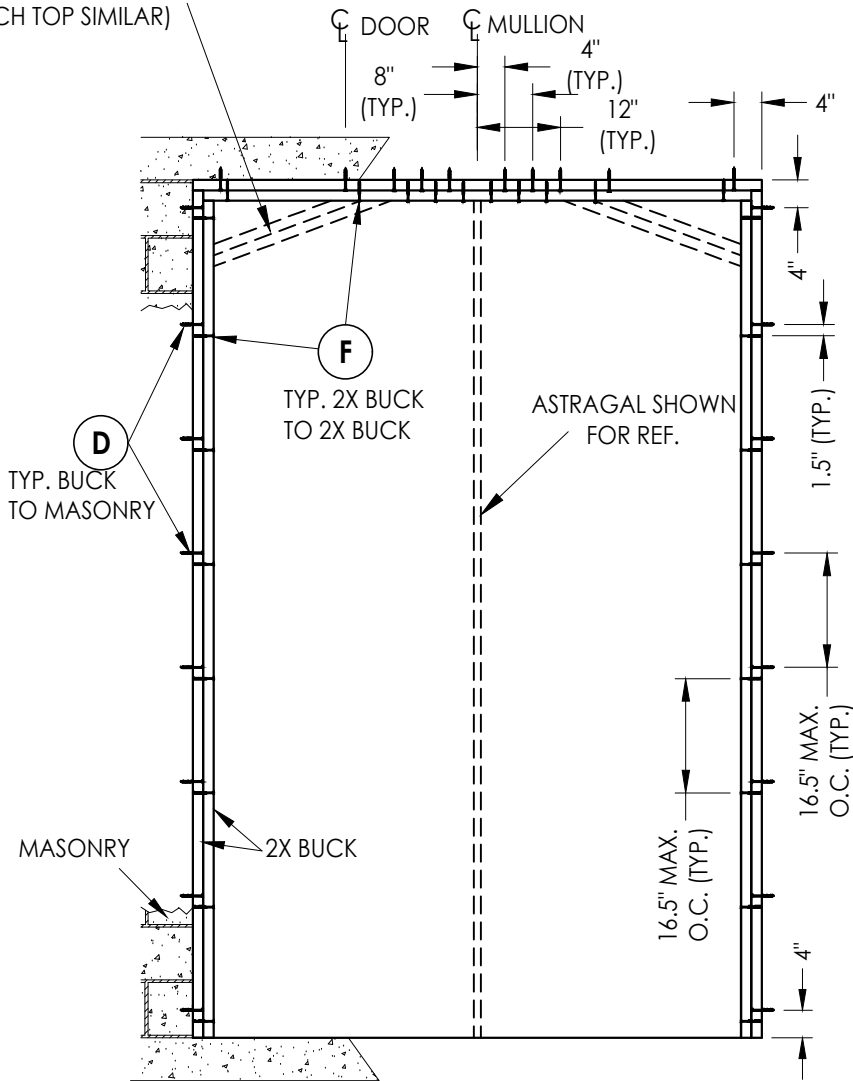
PRODUCT:	CLARK HALL IRON DOORS
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS

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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EYEBROW FRAMING SHOWN
(ARCH TOP SIMILAR)



BUCK ANCHORING
XX

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

CONCRETE ANCHOR NOTES:

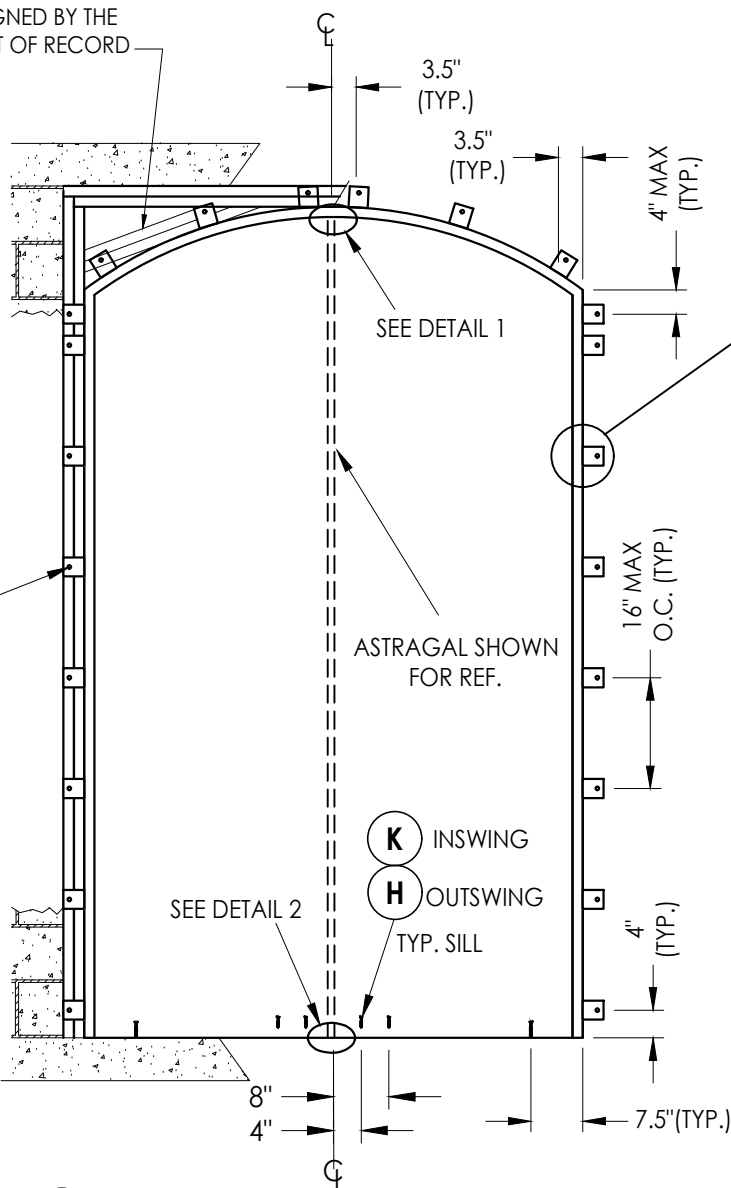
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON 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®	3/16"	1-1/4"	3"	2-1/2"
	1/4"	1-1/4"	2-1/2"	4"
	5/16" (XL)	1-3/4"	2-1/2"	5"
DeWALT ULTRACON®	1/4"	1-1/4"	2-1/2"	4"
	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.

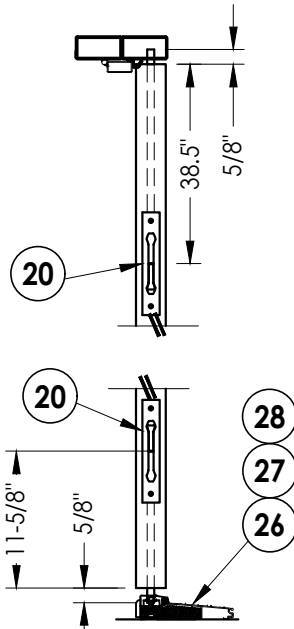
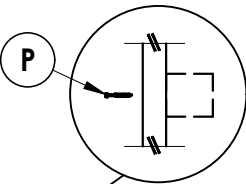
2X FRAMING TO BE DESIGNED BY THE
ENGINEER OR ARCHITECT OF RECORD



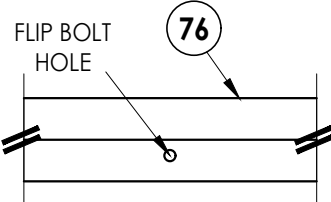
FRAME ANCHORING
XX

ALTERNATE ANCHORING

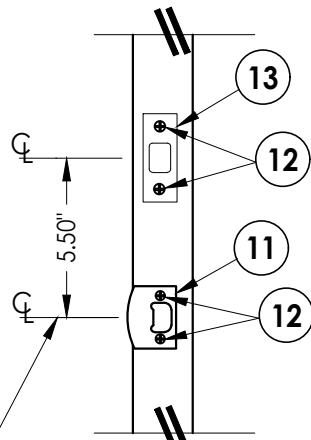
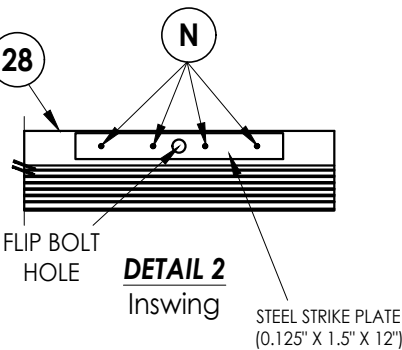
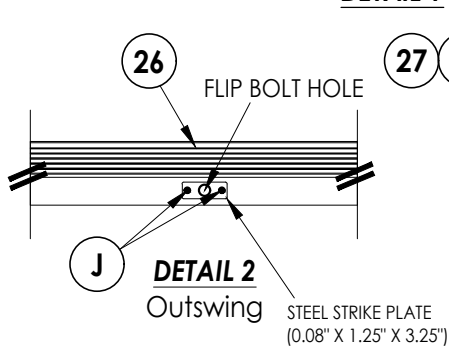
THROUGH THE FRAME
SUBSTITUTE ANCHOR @ EACH BRACKET



FLIP BOLT DETAILS

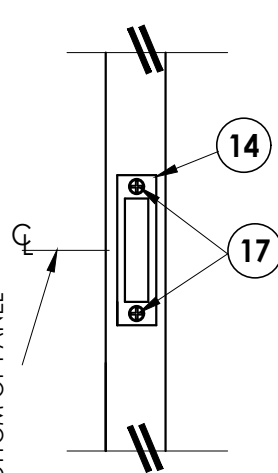


DETAIL 1



STRIKE DETAILS

Emtek Lock & Deadbolt
Ashely Norton Lock & Deadbolt



STRIKE DETAILS

Accurate Mortise Lock

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:
CLARK HALL IRON DOORS

PART OR ASSEMBLY:
BUCK & 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: 10/30/13

SCALE: N.T.S.

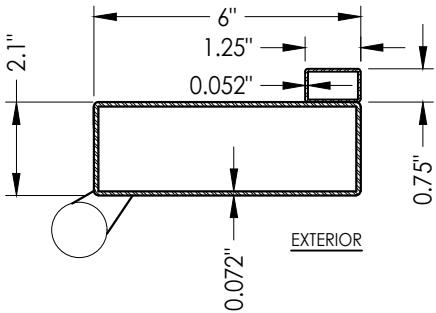
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CHK. BY: LFS

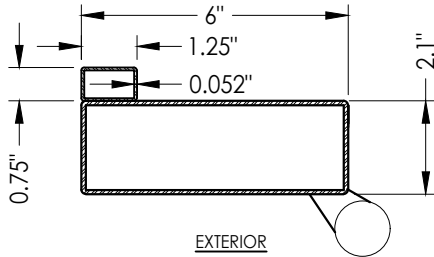
DRAWING NO.:

FL-16663.16

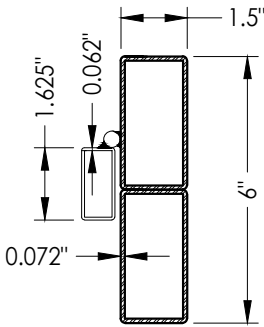
SHEET 6 OF 8



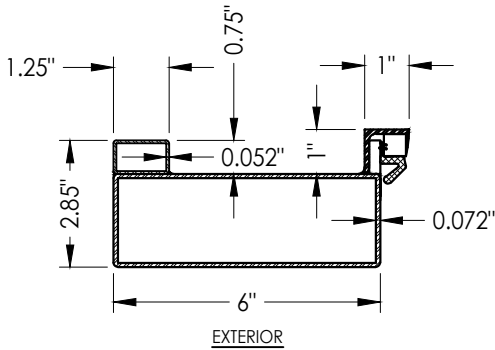
41 Full Lite Door Panel
Inactive Hinge Stile



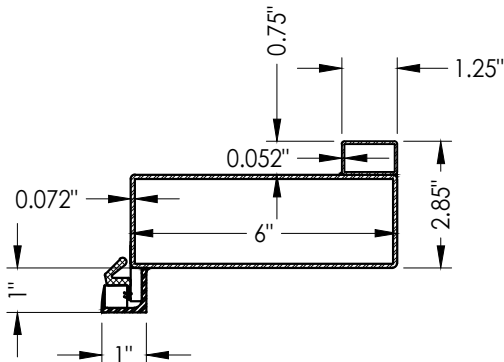
31 Full Lite Door Panel
Active Hinge Stile



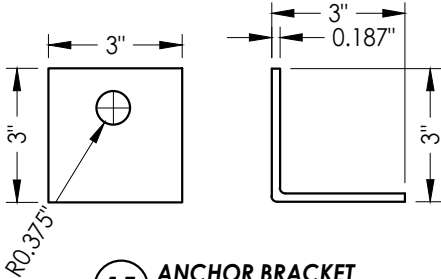
76 Jamb



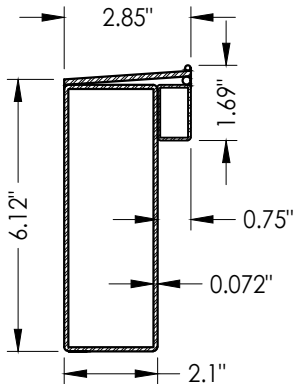
42 Full Lite Door Panel
Inactive Latch Stile



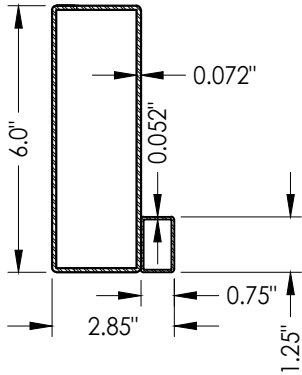
32 Full Lite Door Panel
Active Latch Stile



15 ANCHOR BRACKET



43 Full Lite Door Panel
Bottom Rail



44 Full Lite Door Panel
Top Rail

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

DATE: 10/30/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-16663.16

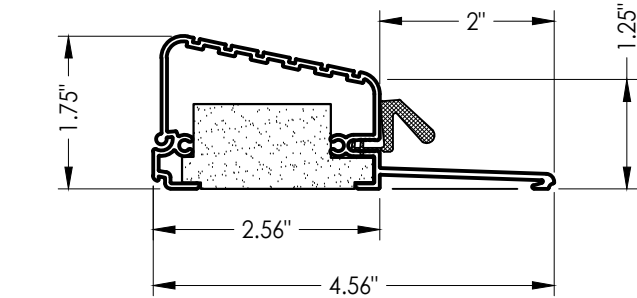
SHEET 7 OF 8

PRODUCT:	CLARK HALL IRON DOORS
PART OR ASSEMBLY:	COMPONENTS

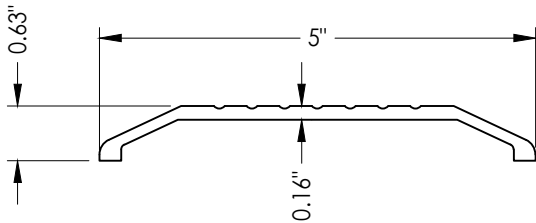
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813
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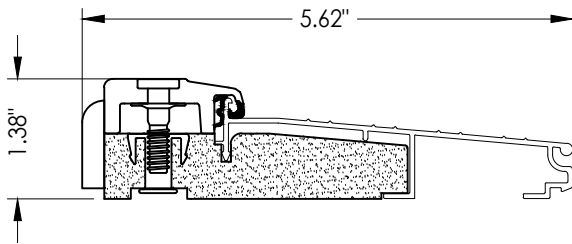
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X BUCK SG >= 0.55	WOOD
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 3" PFH WOOD SCREW	STEEL
H	5/16" X 2-1/4" PFH DeWALT OR ITW 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
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
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
60	SASH LITE FRAME	STEEL
61	SASH HINGE	STEEL
76	JAMB	ASTM A36 STEEL



26 OUTSWING THRESHOLD
DLP



27 ADA THRESHOLD



28 INSWING THRESHOLD

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: CLARK HALL IRON DOORS		PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS	
		LFS	BY
		LFS	
		LFS	
		LFS	
		LFS	
		NO.	DATE
		REVISIONS	
		DATE: 10/30/13	
		SCALE: N.T.S.	
		DWG. BY: JK	
		CHK. BY: LFS	
		DRAWING NO.: FL-16663.16	
		SHEET 8 OF 8	