



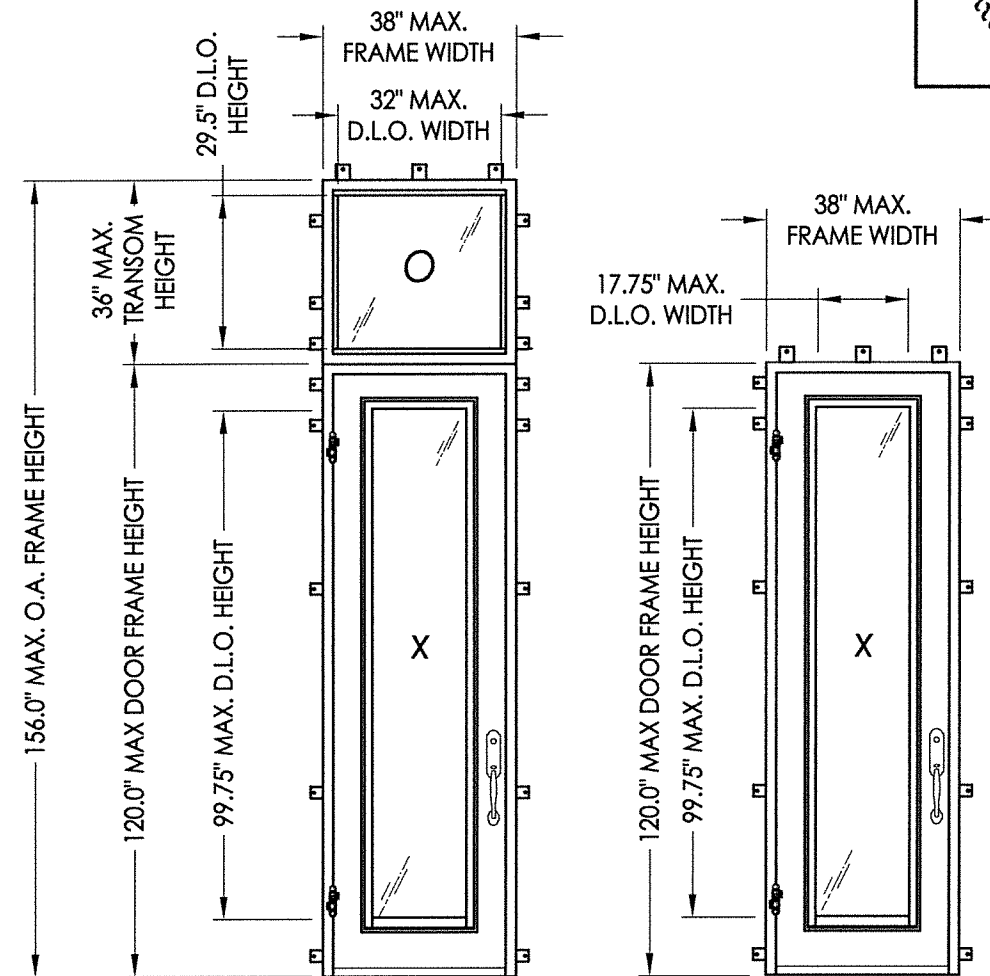
GLAZED IRON SINGLE DOOR w/ & w/out TRANSOM IN SWING/OUT SWING "IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

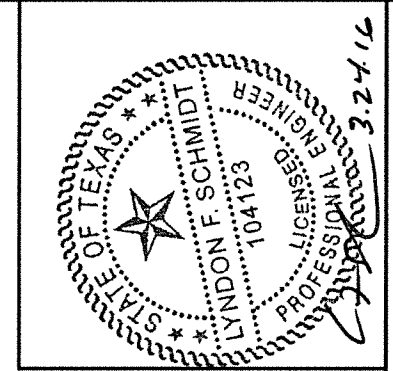
The Iron Door System described herein complies with the 2006 International Residential Code (IRC), Sections R301 & R613 and the 2006 International Building Code (IBC), Sections 1405.12, 1609, 1714.5, 2403 and 2404 (including Texas revisions) subject to the following conditions:

1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. This system has been tested and evaluated as a large missile impact protective system for installation in the Seaward, Inland I and Inland II areas. This product meets missile level "D" as defined in ASTM E 1996.
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Conditions not covered by this drawing are subject to further engineering analysis.

TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures, & general notes
2	Door panel details & glazing details
3	Elevations
4	Horizontal & vertical cross sections
5	Vertical cross sections
6	Buck & frame anchoring (X)
7	Buck & frame anchoring (O/X)
8	Bill of materials & components



CONFIGURATION	OVERALL FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)			
			IN SWING		OUT SWING	
			POS.	NEG.	POS.	NEG.
X	38.0" x 120.0"	G1	+70.0	-70.0	+70.0	-70.0
O X	38.0" x 156.0"	G1	+70.0	-70.0	+70.0	-70.0
X	38.0" x 120.0"	G2	+50.0	-50.0	+50.0	-55.0
O X	38.0" x 156.0"	G2	+50.0	-50.0	+50.0	-55.0



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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: FLORIDA IRON DOORS

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

NO.	DATE	BY	REVISIONS

DATE: 3/23/16

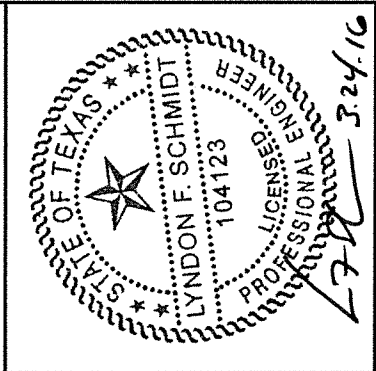
SCALE: N.T.S.

DWG. BY: JK

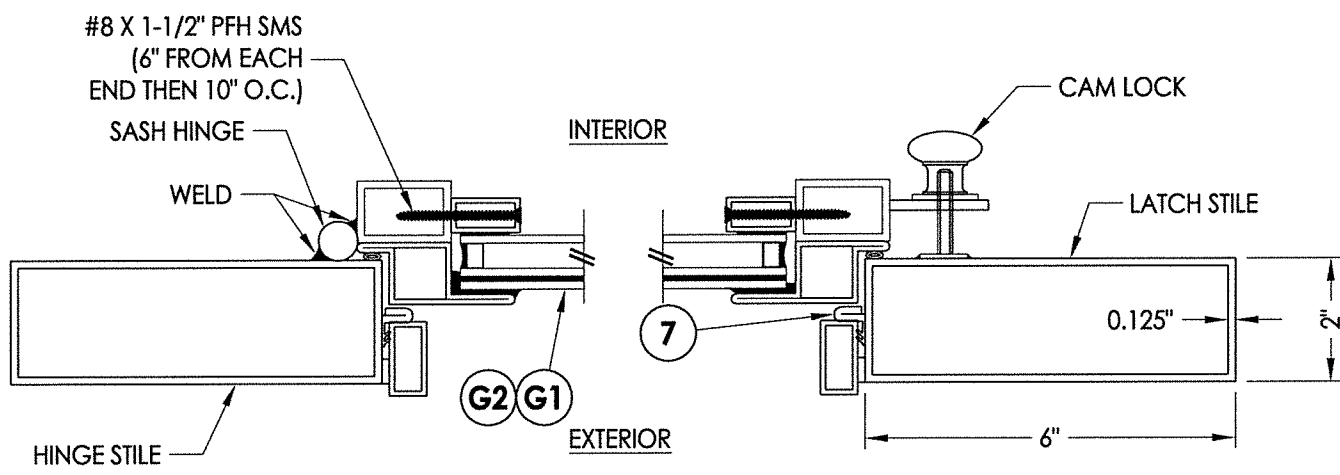
CHK. BY: LFS

DRAWING NO.: TX-4605

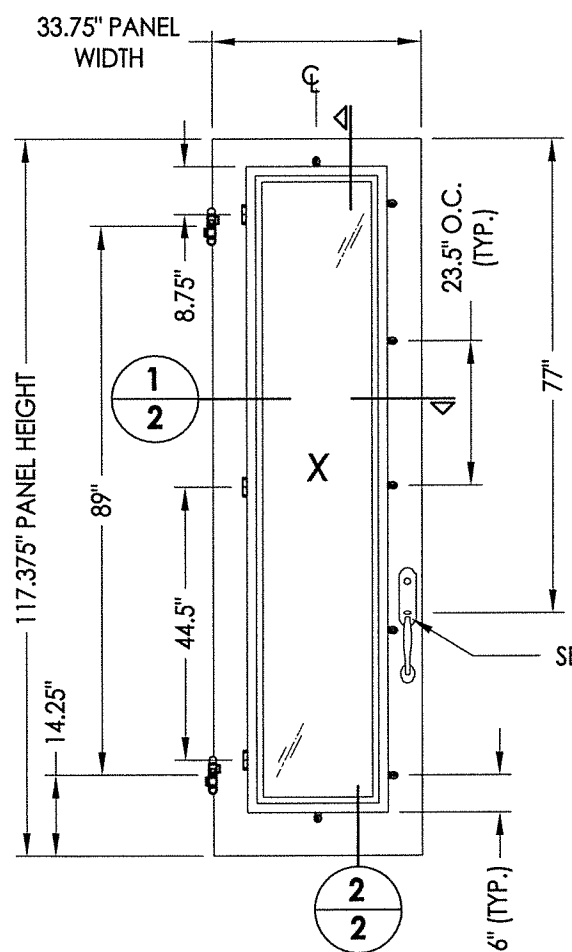
SHEET 1 OF 8



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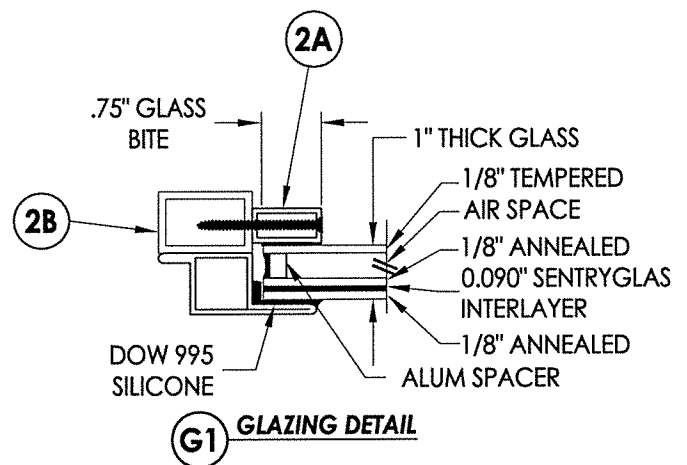


1
2 **HORIZONTAL CROSS SECTION**

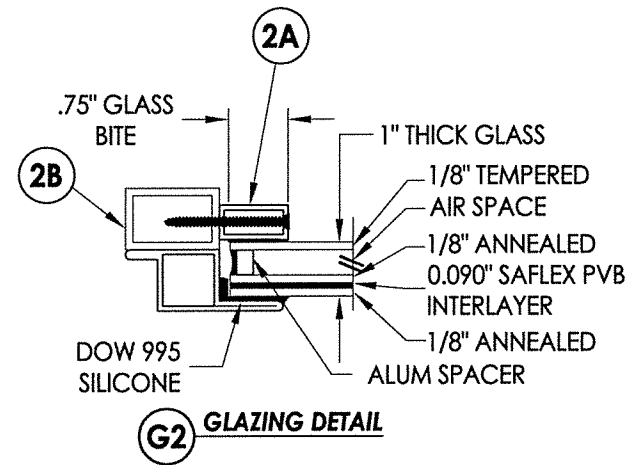


40 **DOOR PANEL**

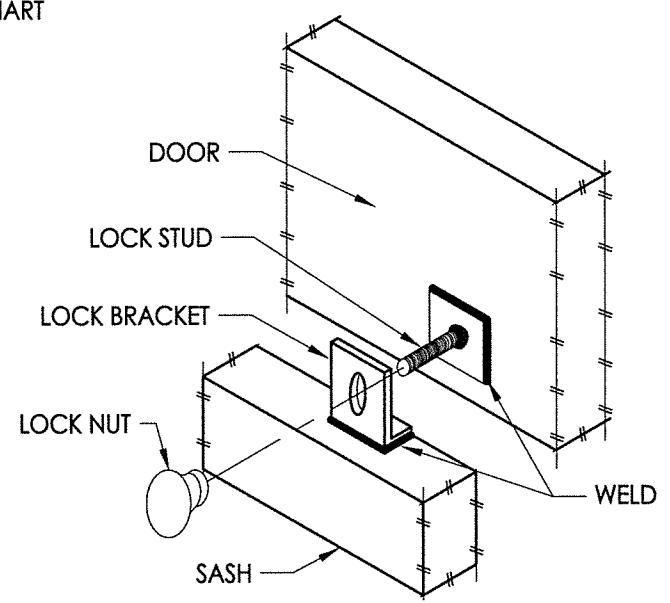
HARDWARE TABLE	
MANUFACTURER	MODEL
WESTIN	HANDLESET (F2)
BALDWIN	HANDLESET (ESTATE SERIES)



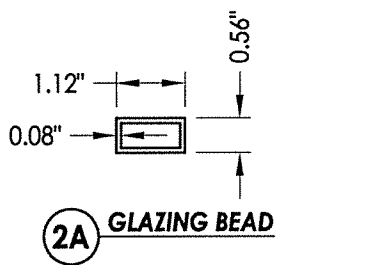
G1 **GLAZING DETAIL**



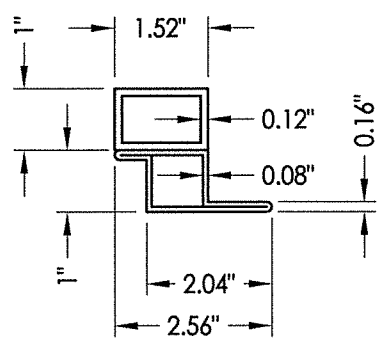
G2 **GLAZING DETAIL**



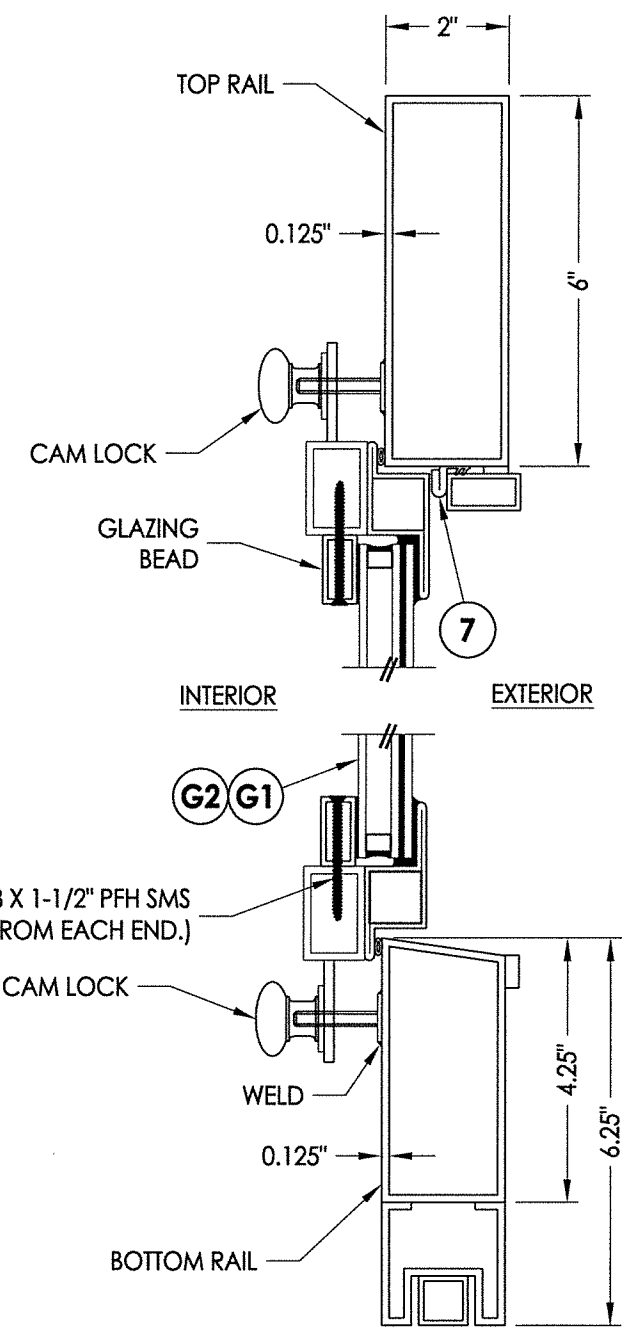
SASH LOCK DETAIL



2A **GLAZING BEAD**

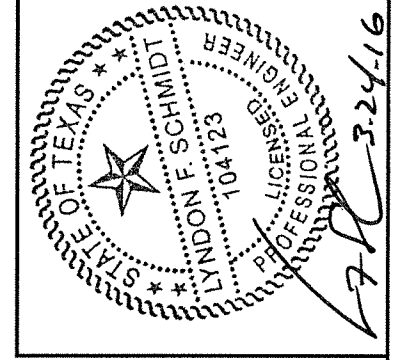
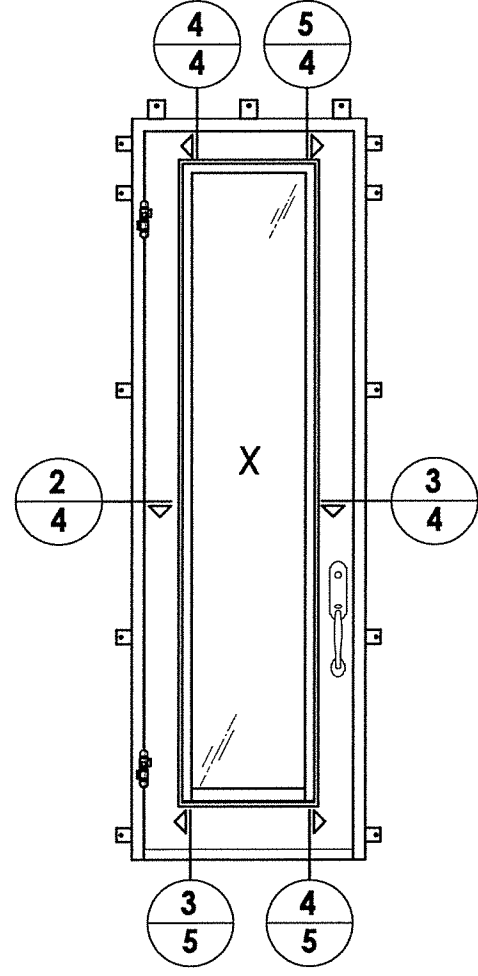
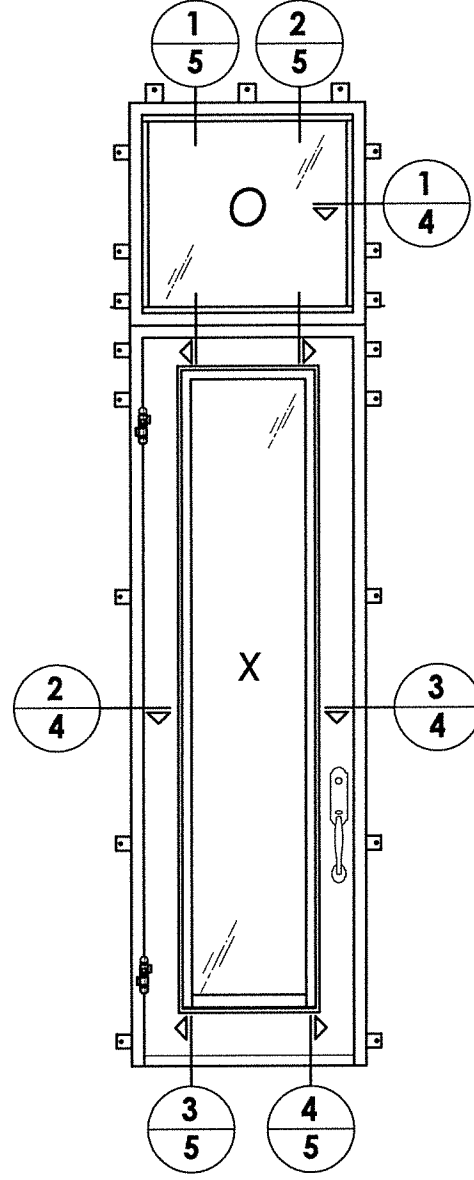


2B **SASH DETAILS**



2
2 **VERTICAL CROSS SECTION**

PRODUCT:	FLORIDA IRON DOORS	
PART OR ASSEMBLY:	DOOR PANEL DETAILS & GLAZING DETAILS	
NO.	DATE	BY
REVISIONS		
DATE:	3/23/16	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4605	
SHEET	2	OF 8



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PRODUCT: FLORIDA IRON DOORS

PART OR ASSEMBLY: ELEVATIONS

NO.	DATE	BY

DATE: 3/23/16

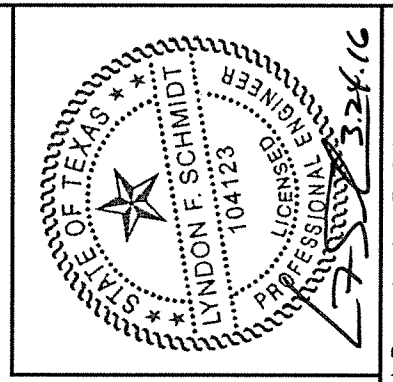
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DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4605

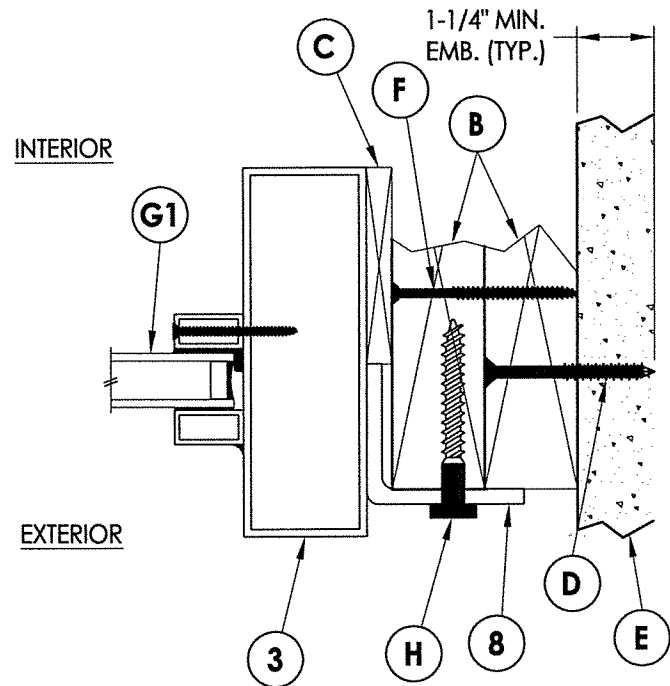
SHEET 3 OF 8



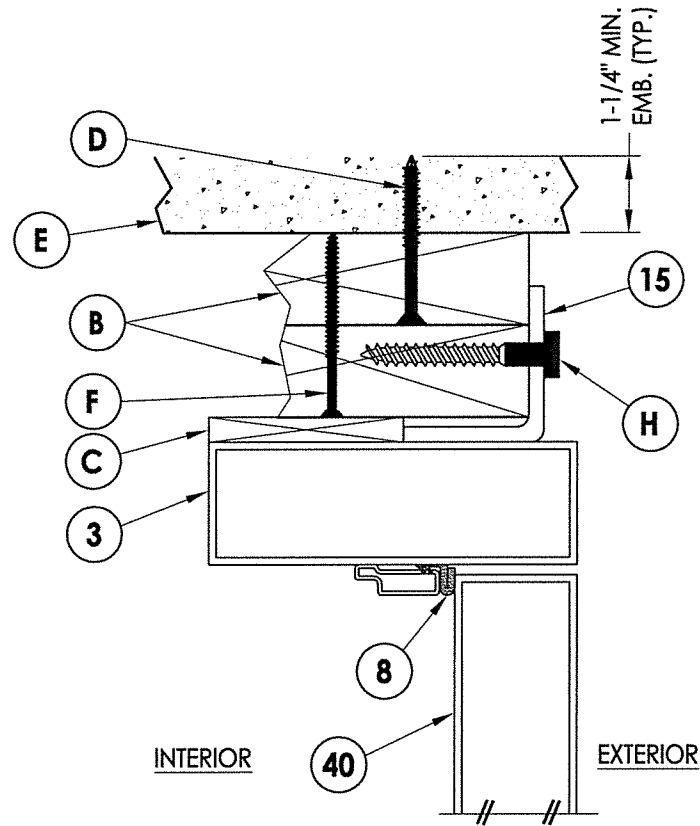
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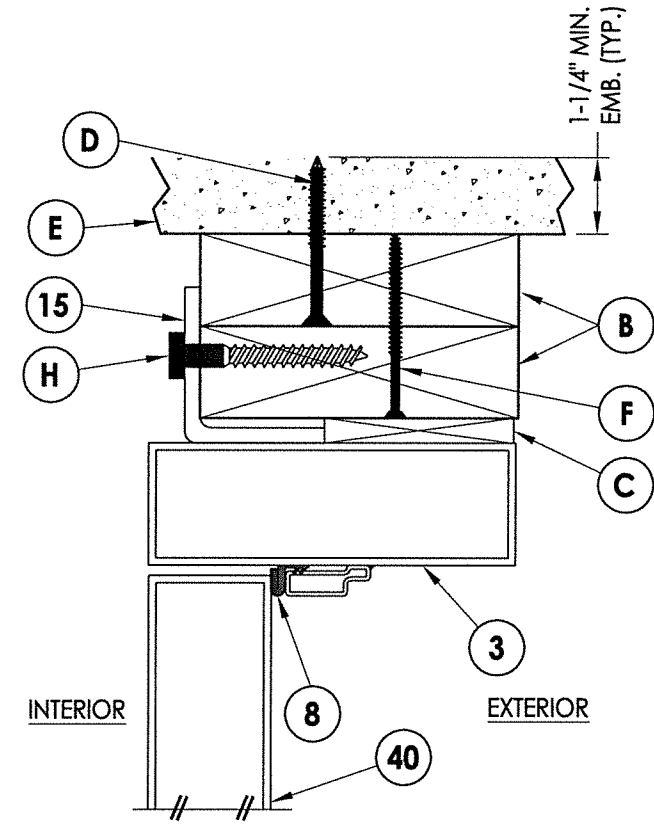
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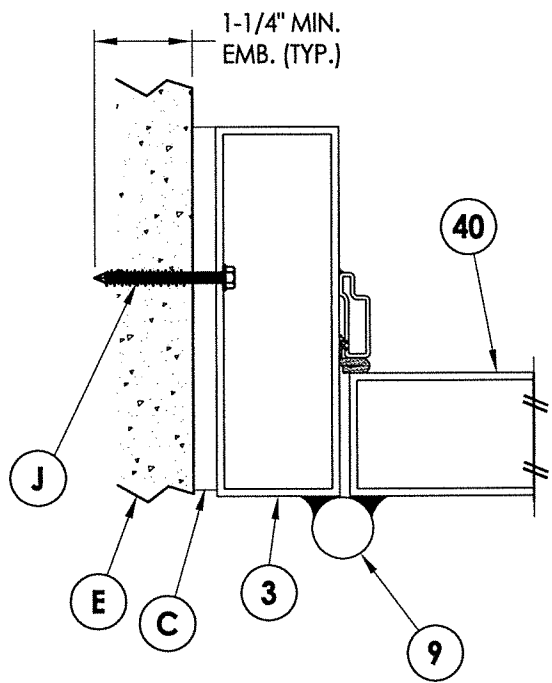
1 **HORIZONTAL CROSS SECTION**
4 Outswing Shown (Inswing Similar)



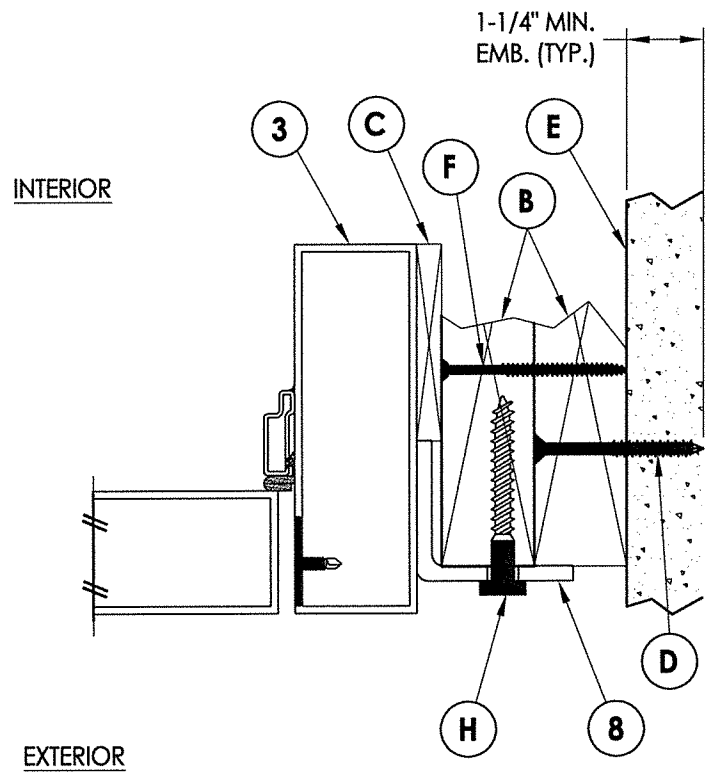
4 **VERTICAL CROSS SECTION**
4 Outswing



5 **VERTICAL CROSS SECTION**
4 Inswing

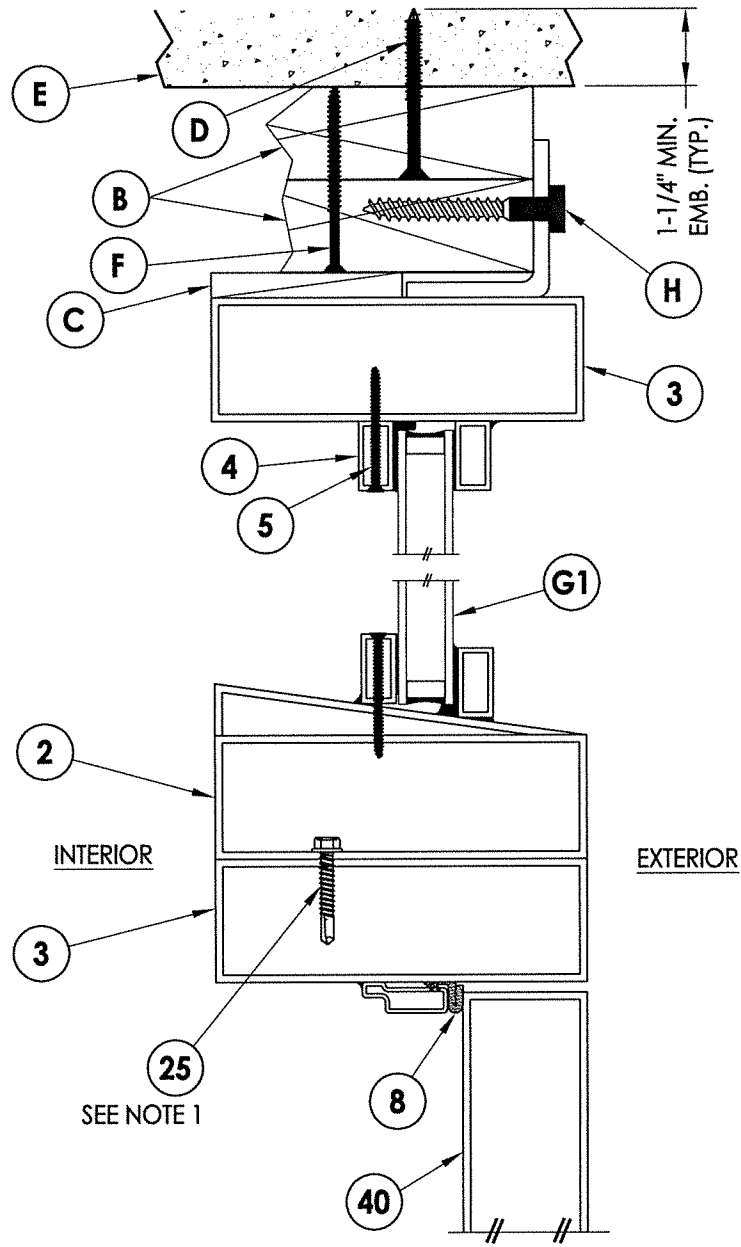


2 **HORIZONTAL CROSS SECTION**
4 Outswing Shown (Inswing Similar)
Direct to Masonry Anchoring

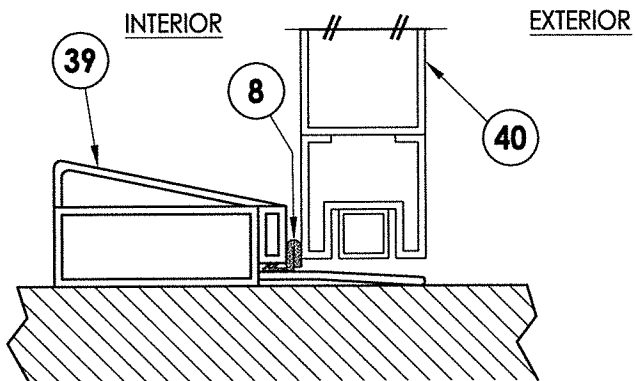


3 **HORIZONTAL CROSS SECTION**
4 Outswing Shown (Inswing Similar)

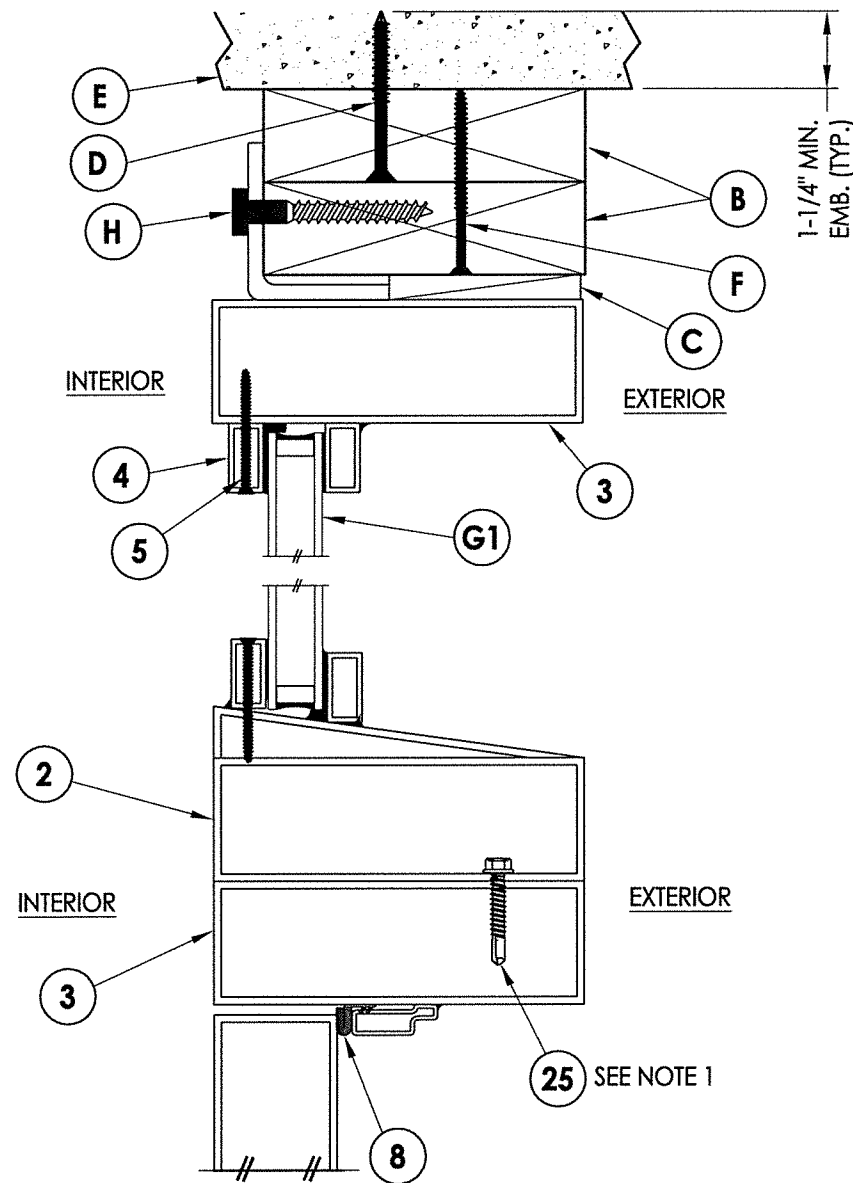
PRODUCT: FLORIDA IRON DOORS		REVISIONS	
PART OR ASSEMBLY: HORIZONTAL AND VERTICAL CROSS SECTIONS		NO.	DATE
		BY	
DATE: 3/23/16			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4605			
SHEET 4 OF 8			



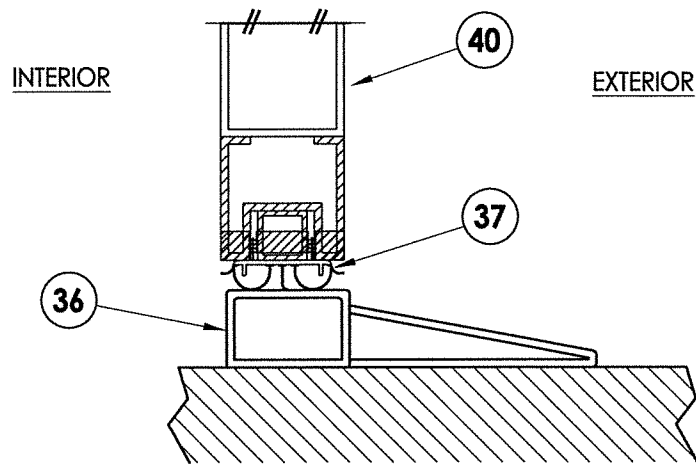
1 VERTICAL CROSS SECTION
5 Outswing



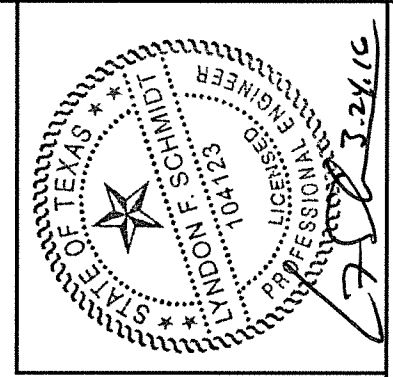
3 VERTICAL CROSS SECTION
5 Outswing



2 VERTICAL CROSS SECTION
5 Inswing



4 VERTICAL CROSS SECTION
5 Inswing



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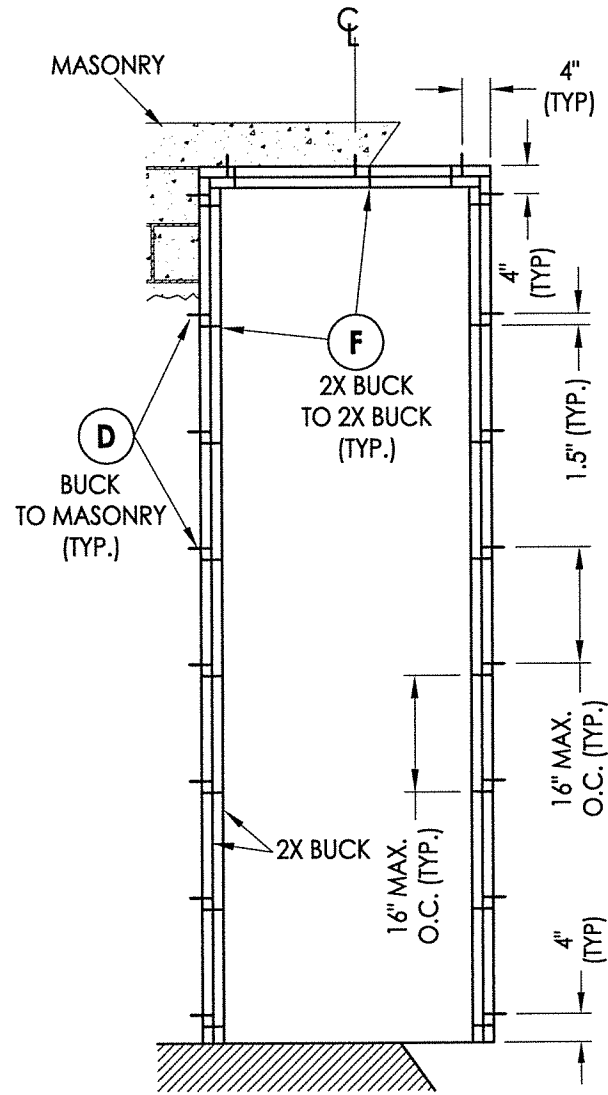
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: FLORIDA IRON DOORS
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

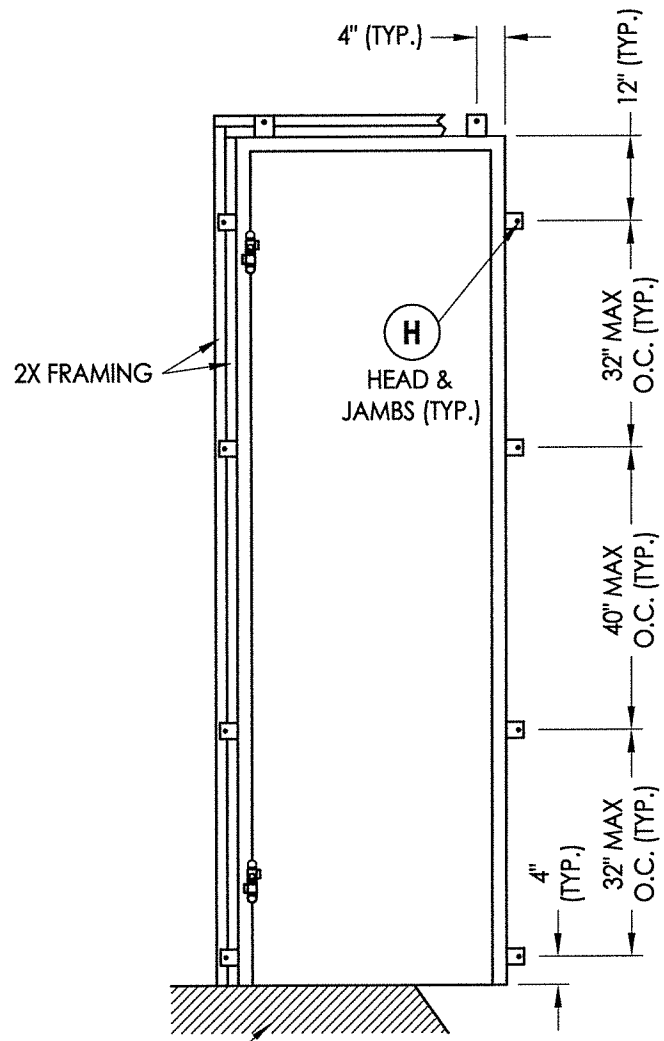
DATE: 3/23/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4605
SHEET 5 of 8

NOTE :
1. Item #35 location: 4" from each and (2) more equally spaced (4 total).

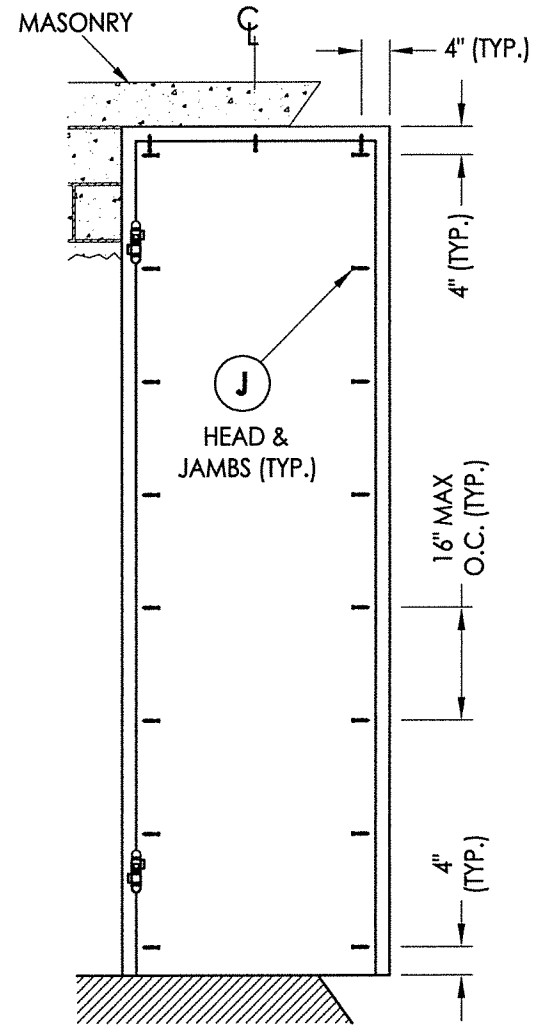


BUCK ANCHORING

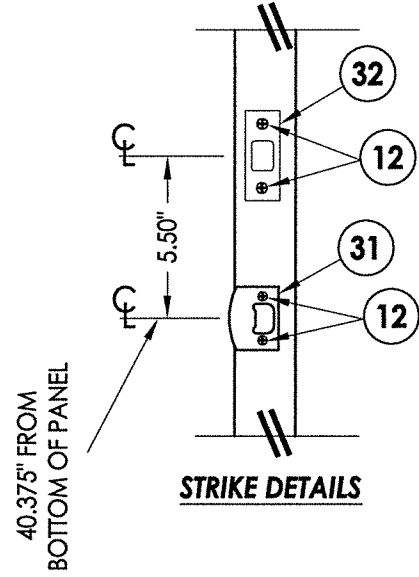
FLOOR SUBSTRATE MATERIAL (TYP.)
 CONCRETE (MIN. 3000 PSI)
 WOOD (G >= 0.42)



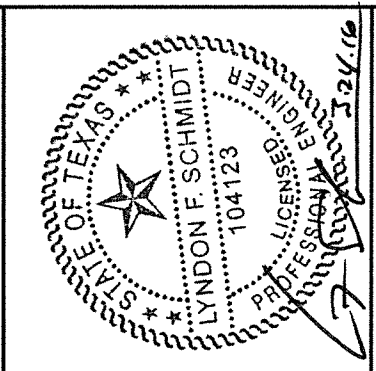
FRAME ANCHORING
 Stud Construction



FRAME ANCHORING
 Direct to masonry



STRIKE DETAILS



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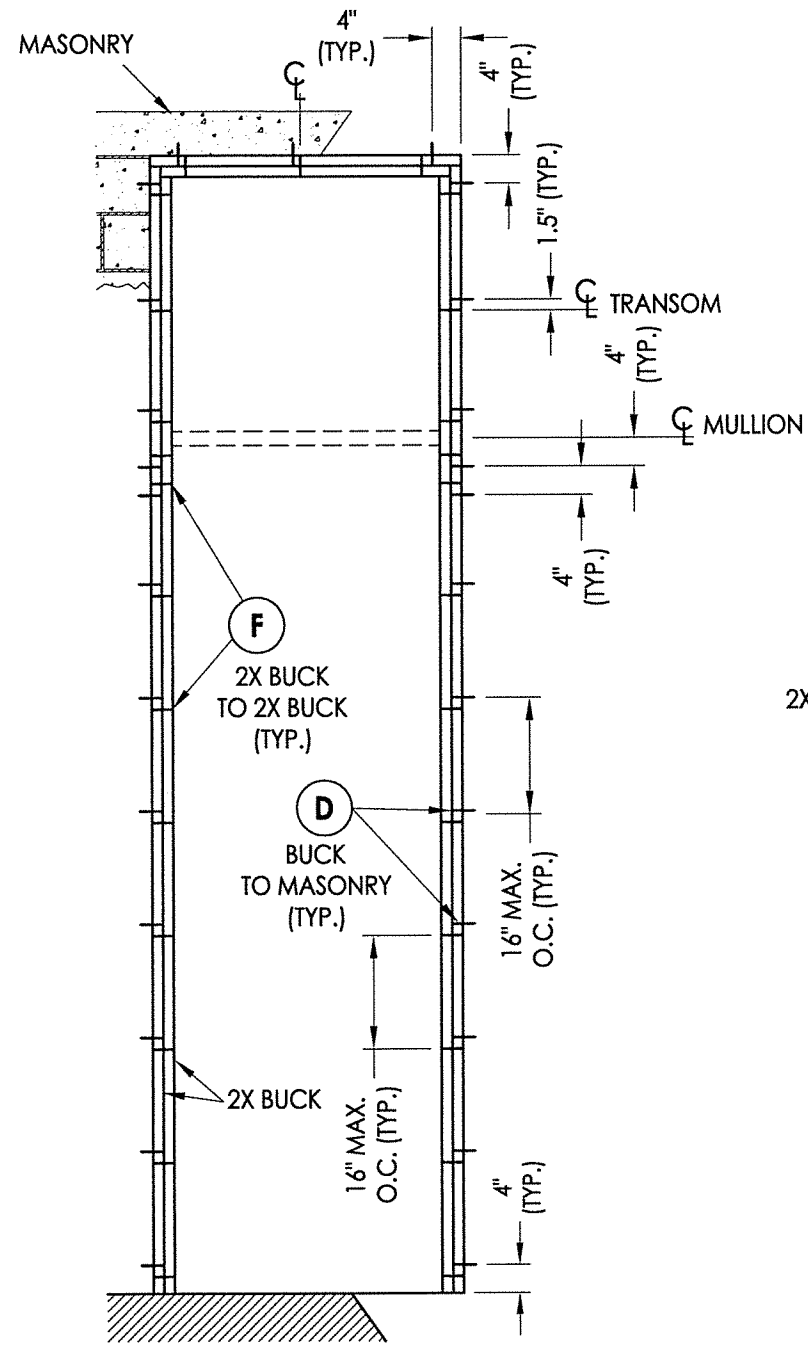
TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: FLORIDA IRON DOORS

PART OR ASSEMBLY: BUCK & FRAME ANCHORING (X)

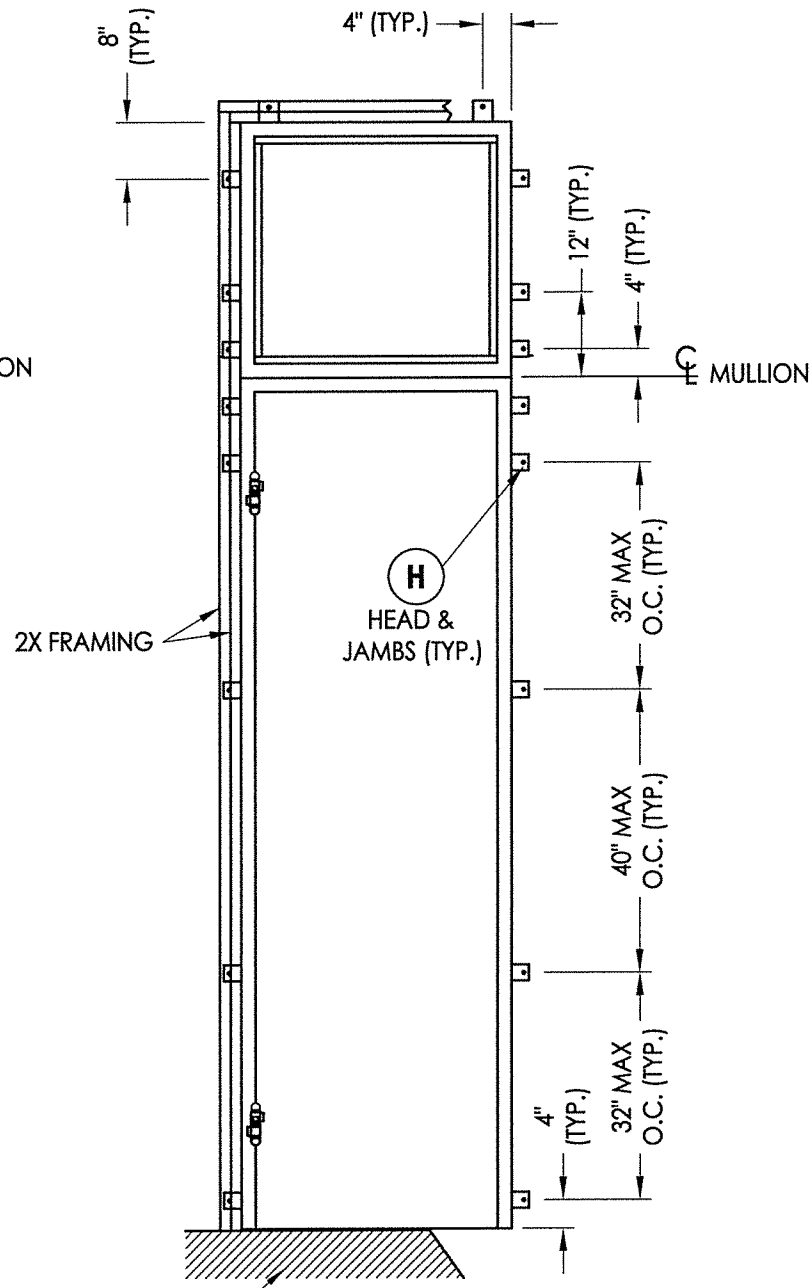
NO.	DATE	BY	REVISIONS

DATE: 3/23/16
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4605
 SHEET 6 OF 8

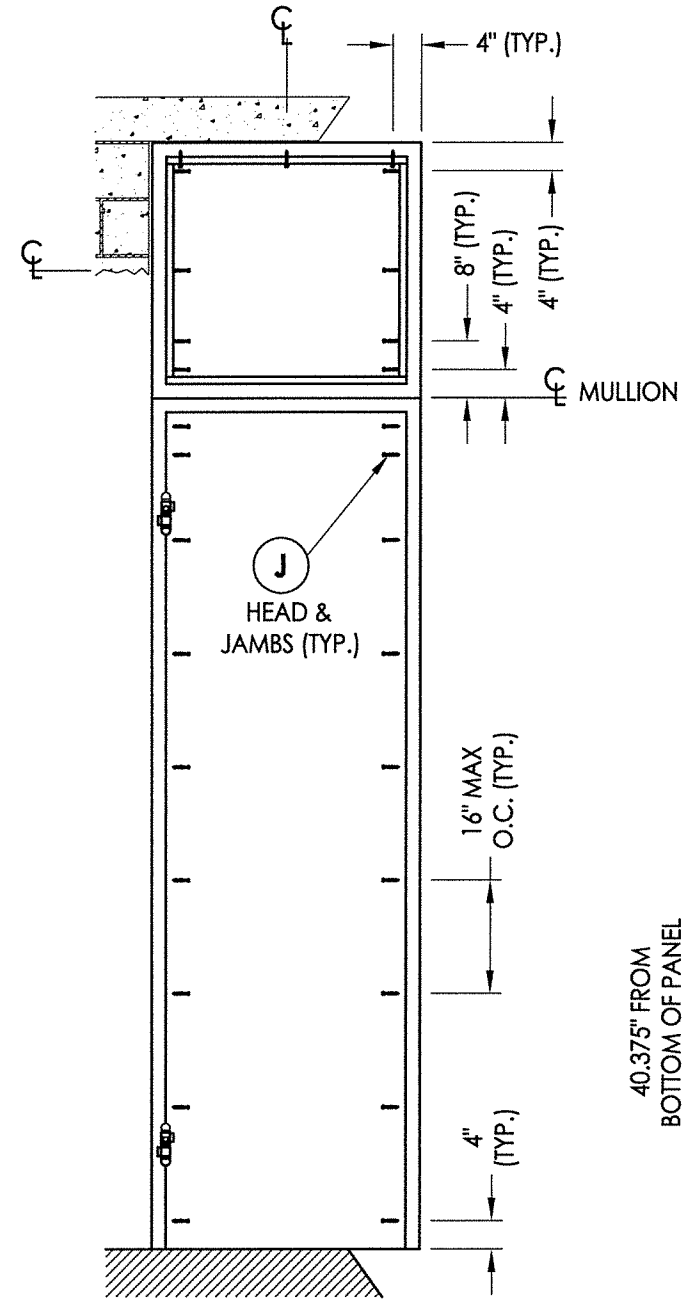


BUCK ANCHORING

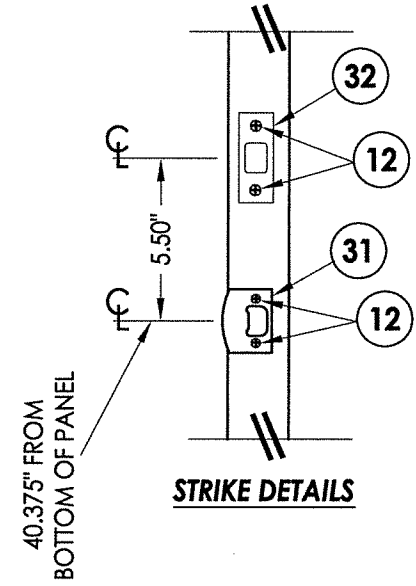
FLOOR SUBSTRATE MATERIAL (TYP.)
 CONCRETE (MIN. 3000 PSI)
 WOOD ($G \geq 0.42$)



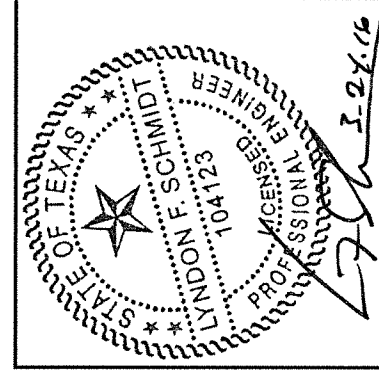
FRAME ANCHORING
 Stud Construction



FRAME ANCHORING
 Direct to masonry



STRIKE DETAILS



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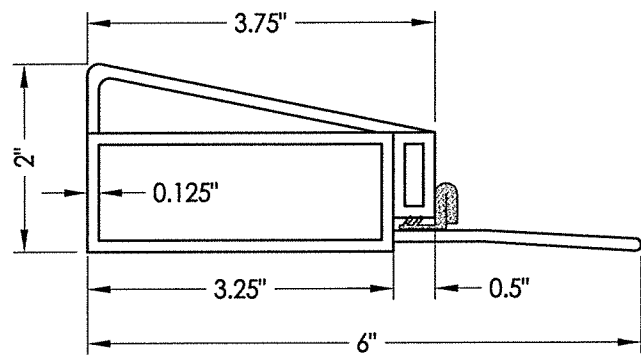
TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	FLORIDA IRON DOORS		
PART OR ASSEMBLY:	BUCK & FRAME ANCHORING (O/X)		
NO.	DATE	BY	REVISIONS

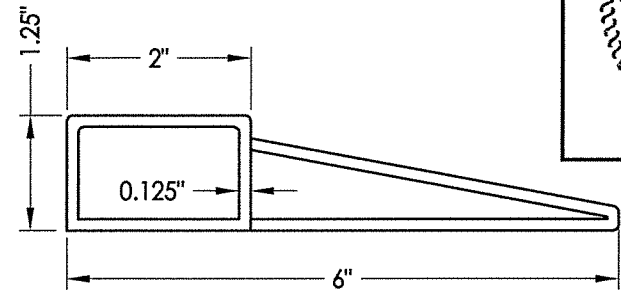
DATE:	3/23/16
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4605
SHEET	7 OF 8

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X BUCK/FRAMING (SG >= 0.42)	WOOD
C	3/8" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH ELCO 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 (1-1/2" MIN. EMBEDMENT)	STEEL
H	3/8" X 3" HWH LAG SCREW (2-1/2" MIN. EMBEDMENT)	STEEL
J	1/4" X 2-1/4" HWH ELCO OR ITW CONCRETE SCREW (1-1/4" MIN. EMBEDMENT)	STEEL
2	TRANSOM SILL	STEEL
3	FRAME	STEEL
4	GLAZING BEAD	STEEL
5	#8 X 1-1/4" PFH SELF-DRILLING SMS	STEEL
7	WEATHERSTRIP GASKET (.5")	FOAM
8	WEATHERSTRIP GASKET (.67")	FOAM
9	DOOR HINGE	STEEL
12	#8 X 3/4" PFH SELF-DRILLING SMS	STEEL
15	ANCHORING BRACKET	STEEL
25	#10 X 1-1/2" HWH SELF-DRILLING SMS	STEEL
31	LATCH STRIKE PLATE	STEEL
32	DEADBOLT STRIKE PLATE	STEEL
35	ASTRAGAL	STEEL
36	THRESHOLD	STEEL
37	DOOR SWEEP	PVC
39	THRESHOLD	STEEL
40	DOOR PANEL	STEEL

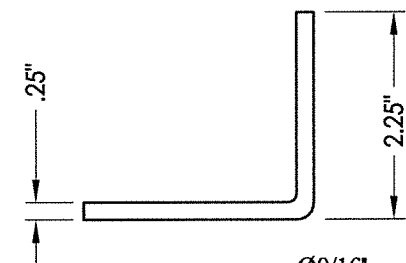
All Door Component Steel: ASTM A36



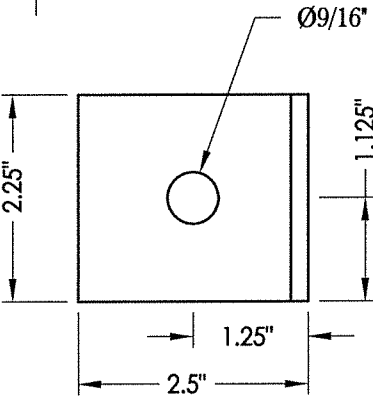
39 THRESHOLD
Outswing



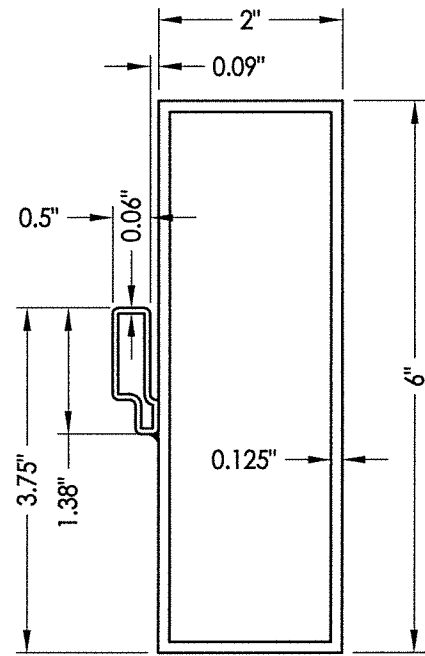
36 THRESHOLD
Inswing



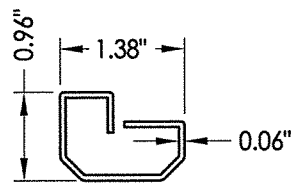
15 ANCHORING BRACKET



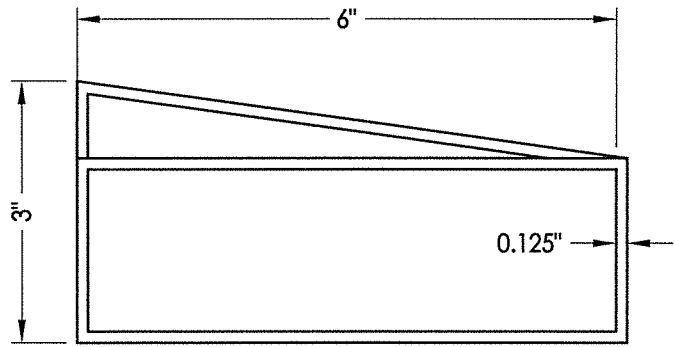
3 FRAME



9 HINGE



35 ASTRAGAL



2 TRANSOM SILL

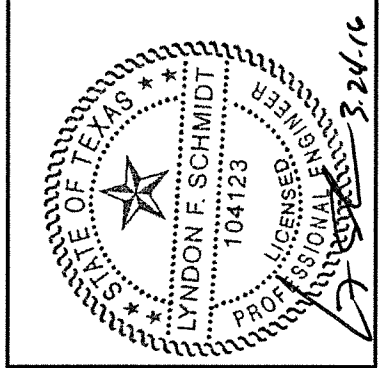
CONCRETE ANCHOR NOTES:

- 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"	2-1/2"	4"
ELCO ULTRACON®	1/4"	1-1/4"	2-1/2"	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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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: FLORIDA IRON DOORS

PART OR ASSEMBLY:

BILL OF MATERIALS & COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 3/23/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4605

SHEET 8 OF 8