

# COMPLEX INDUSTRIES

5768 Distribution Dr.  
Memphis, TN 38141

## GLAZED IRON SINGLE DOOR w/ or w/out SIDELITES

**INSWING**  
**"NON-IMPACT"**

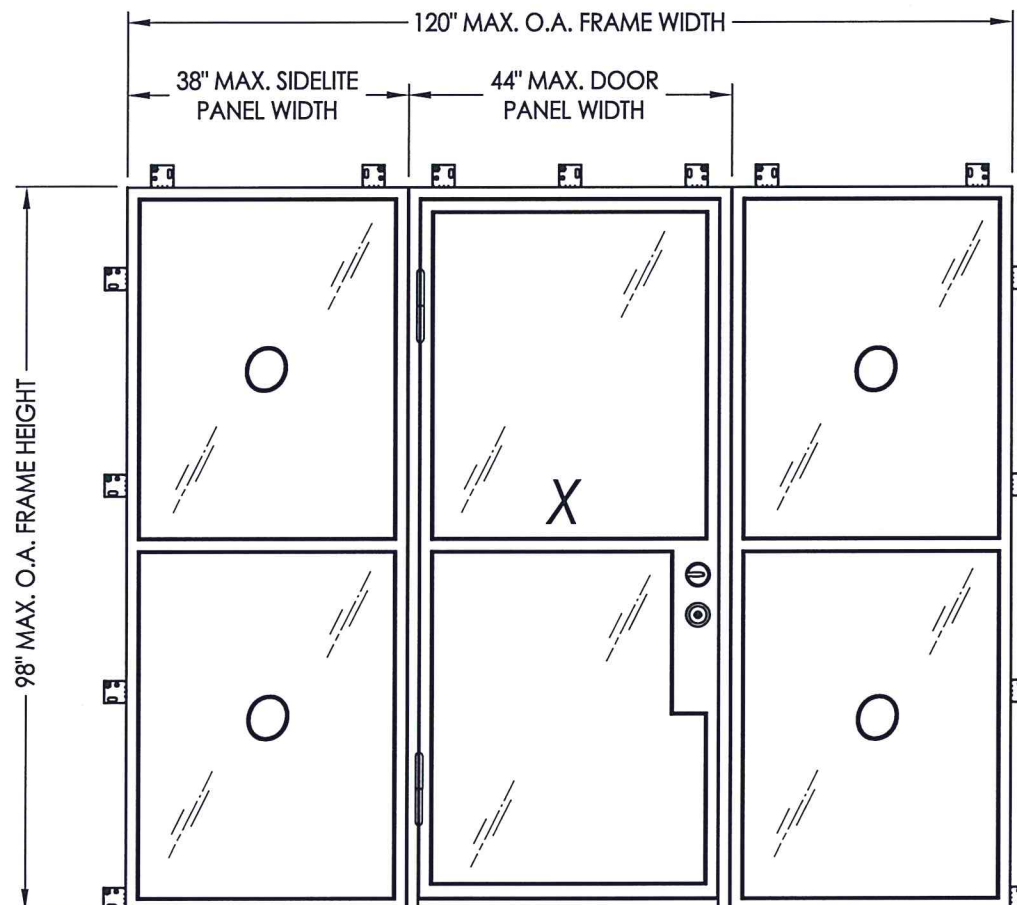
### EVALUATED FOR USE IN THE STATE OF TEXAS

The Iron Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

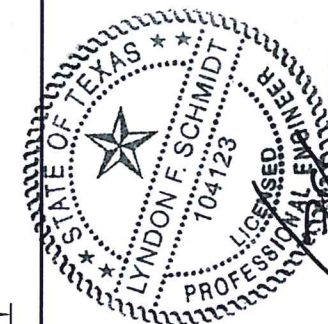
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection, this system is required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.2 of the IBC.
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. 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
3	Sidelite Panel Details
4	Elevations
5	Horizontal Cross Sections
6	Vertical Cross Sections
7	Frame anchoring
8	Bill of materials and components



CONFIGURATION	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
X	44" x 98"	+55.0	-60.0
XO or XO	82" x 98"	+55.0	-60.0
OXO	120" x 98"	+55.0	-60.0



7-2-20

Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123

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

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

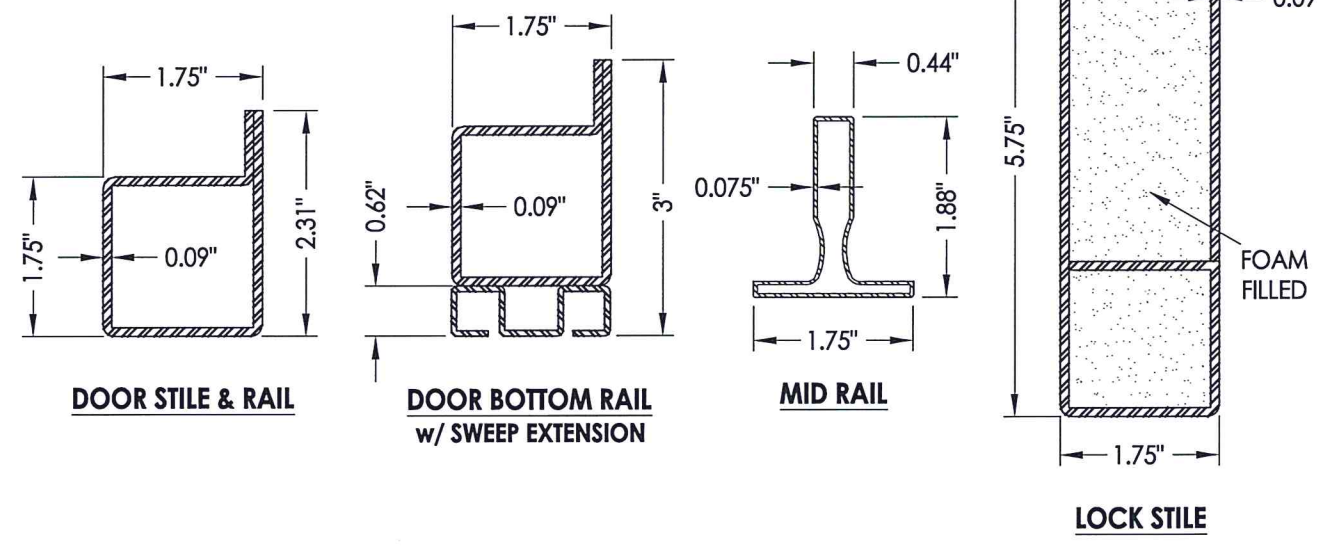
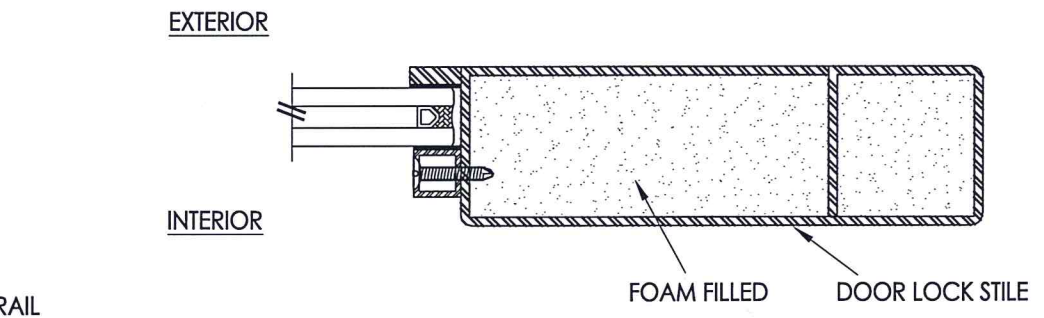
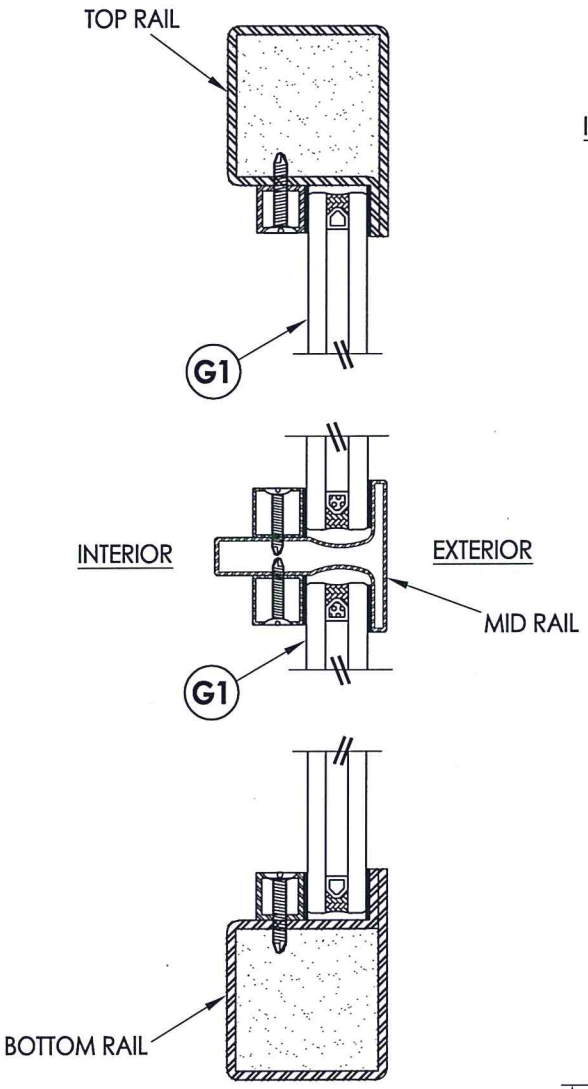
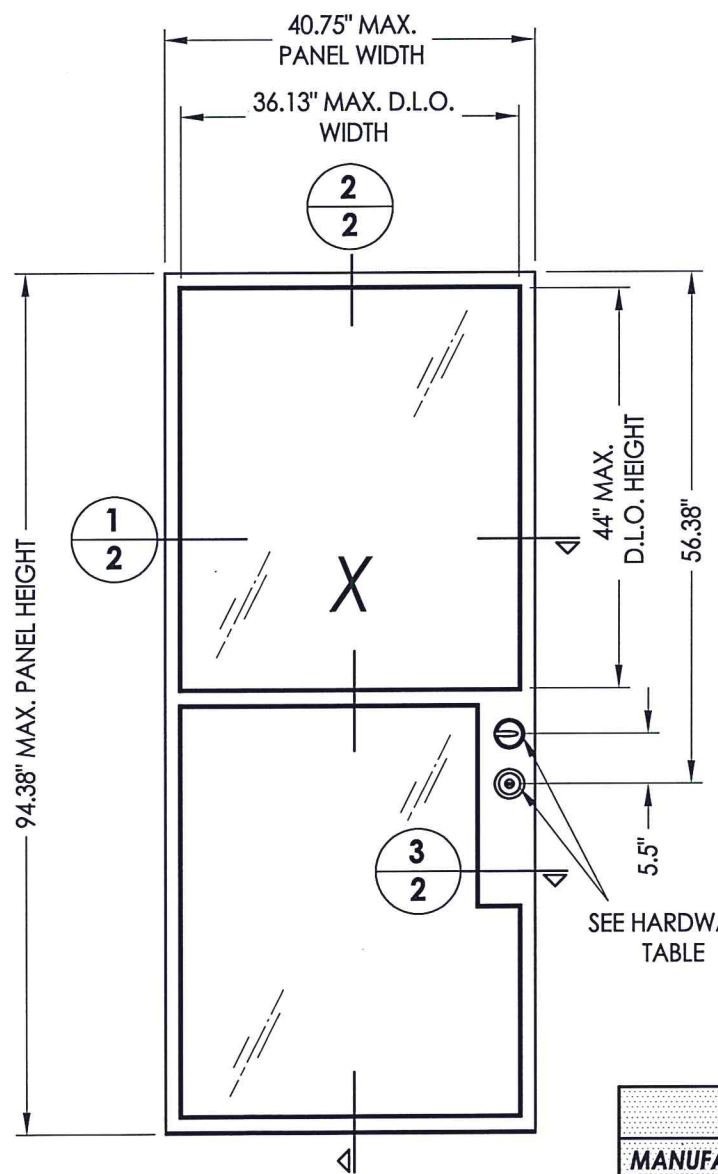
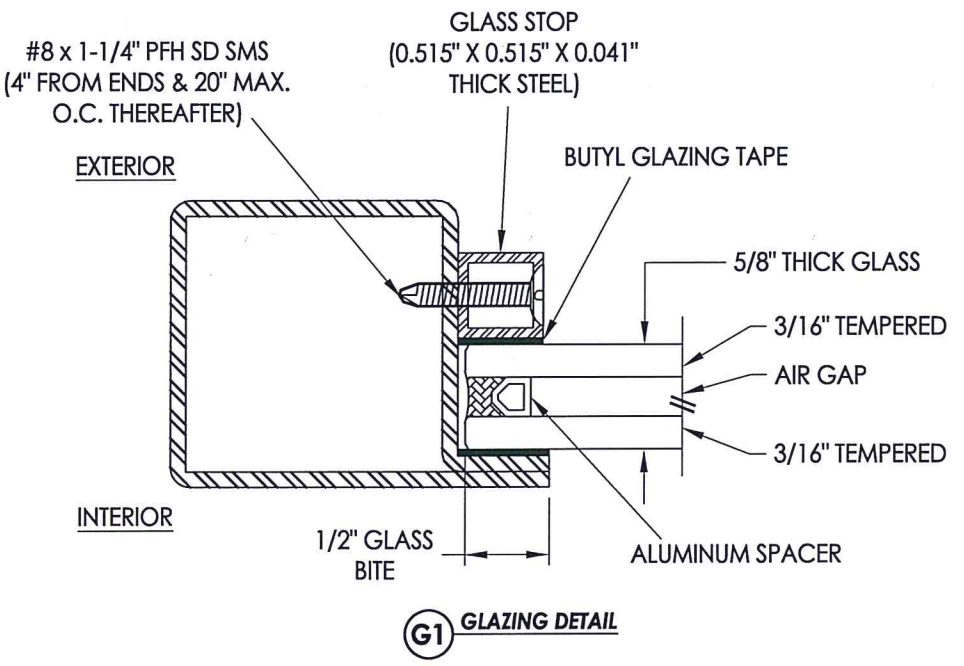
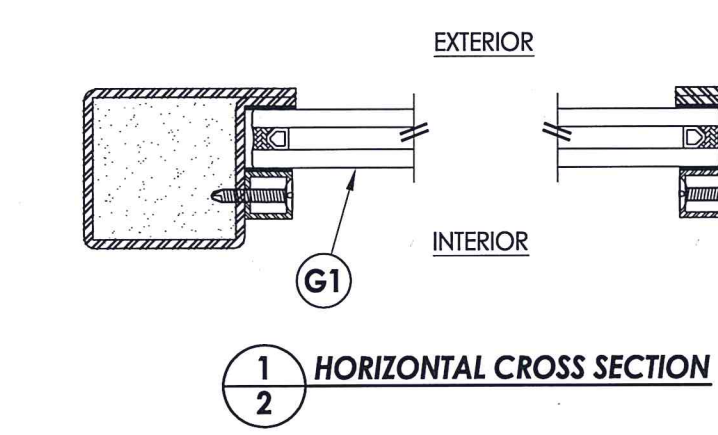
PRODUCT: COMPLEX INDUSTRIES  
GLAZED IRON DOOR

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

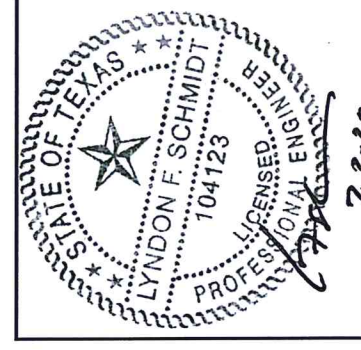
NO.	DATE	REVISIONS	BY
1	7/02/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 8/26/19  
SCALE: N.T.S.  
DWG. BY: TRJ  
CHK. BY: LFS  
DRAWING NO.: TX-4943  
SHEET 1 OF 8

R:\Clients\Complex Industries PERMANENT\B - Texas Dept of Ins\TDI DR-1068 - Narrow Stile Iron Doors wwo Sidelites and Transoms\C - Drawings\TX-4943-4944.dwg, 1.2



HARDWARE TABLE	
MANUFACTURER	MODEL
SCHLAGE	KNOB: F51
	DEADBOLT: B60N
KWIKSET	KNOB: SIGNATURE SERIES
	DEADBOLT: SIGNATURE SERIES (980)



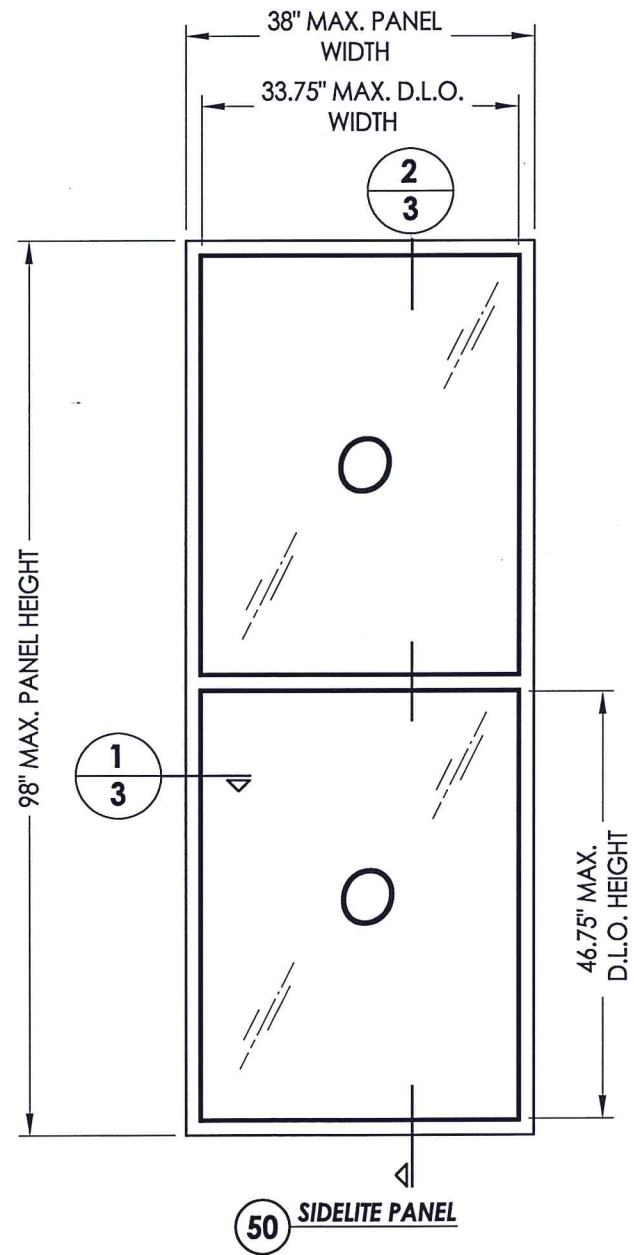
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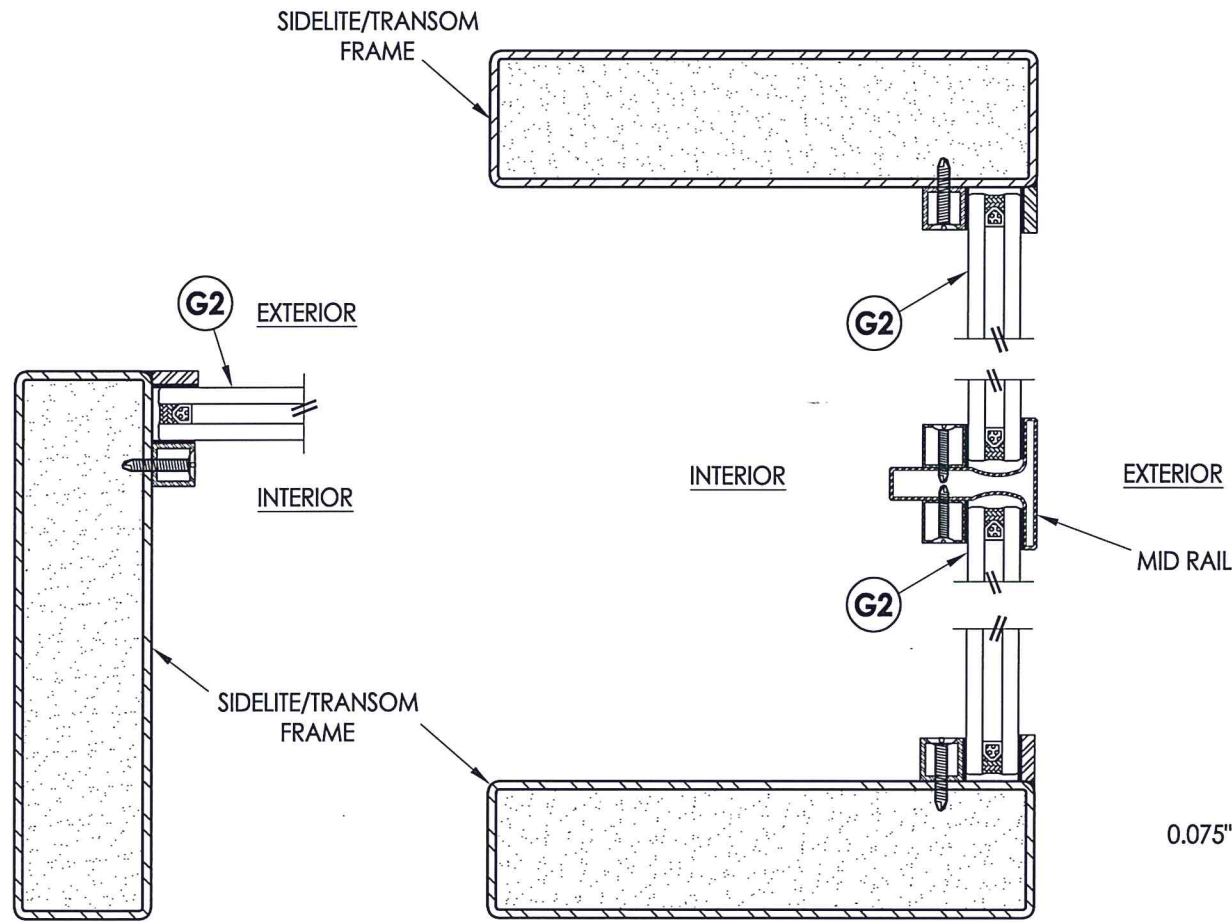
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PRODUCT:	COMPLEX INDUSTRIES GLAZED IRON DOOR			
PART OR ASSEMBLY:	DOOR PANEL DETAILS			
DATE:	8/26/19			
SCALE:	N.T.S.			
DWG. BY:	TRJ			
CHK. BY:	LFS			
DRAWING NO.:	TX-4943			
SHEET	2 OF 8			
NO.	DATE	UPDATE TO 2018 IBC/IRC CODE	LFS	BY
1	7/02/20			
REVISIONS				

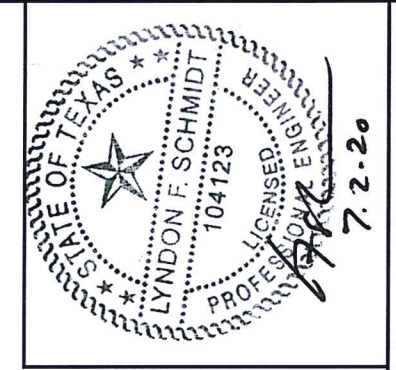
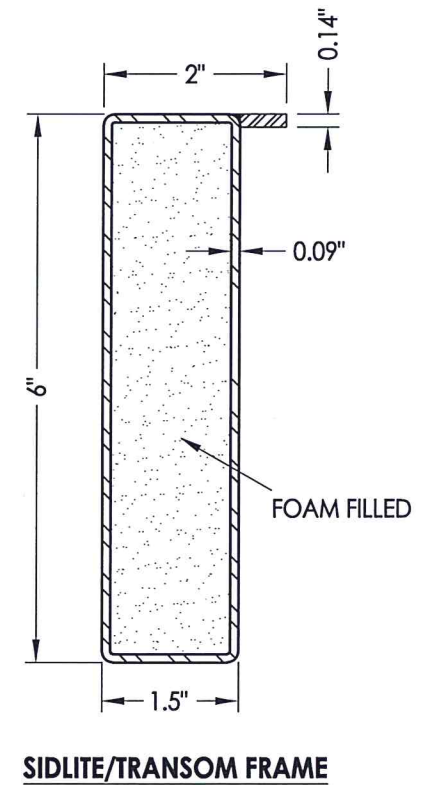
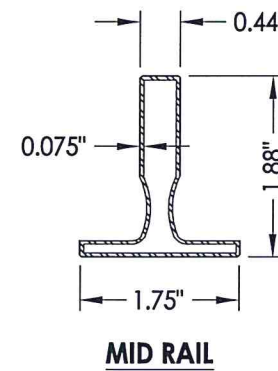
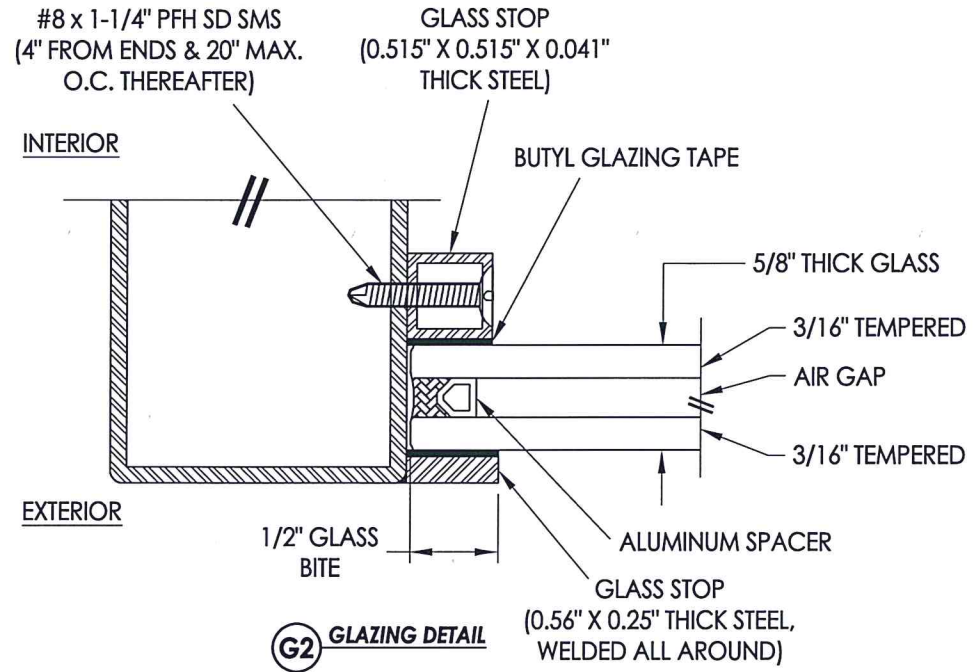
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1/3 HORIZONTAL CROSS SECTION



2/3 VERTICAL CROSS SECTION



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PRODUCT: COMPLEX INDUSTRIES GLAZED IRON DOOR

PART OR ASSEMBLY: SIDELITE & TRANSOM PANEL DETAILS

NO.	DATE	DESCRIPTION	BY
1	7/02/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 8/26/19

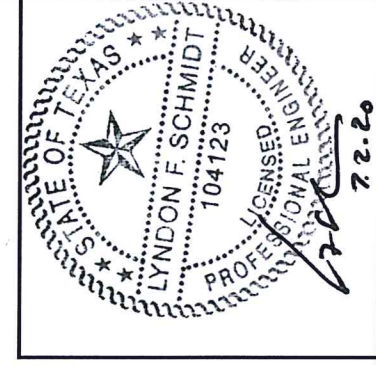
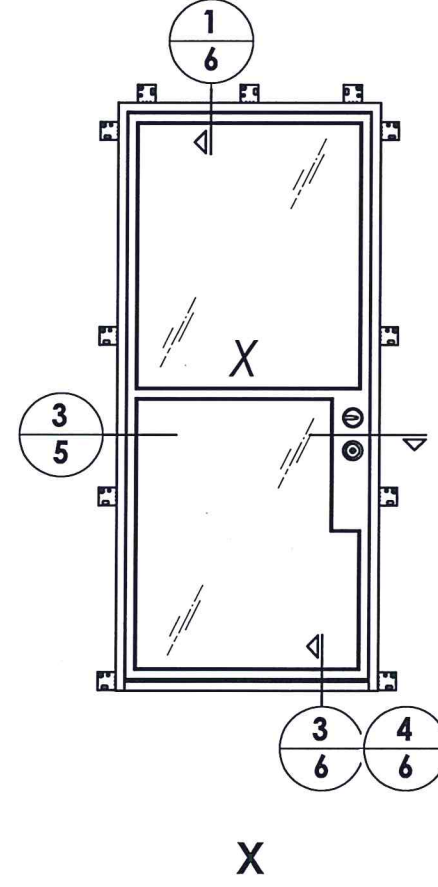
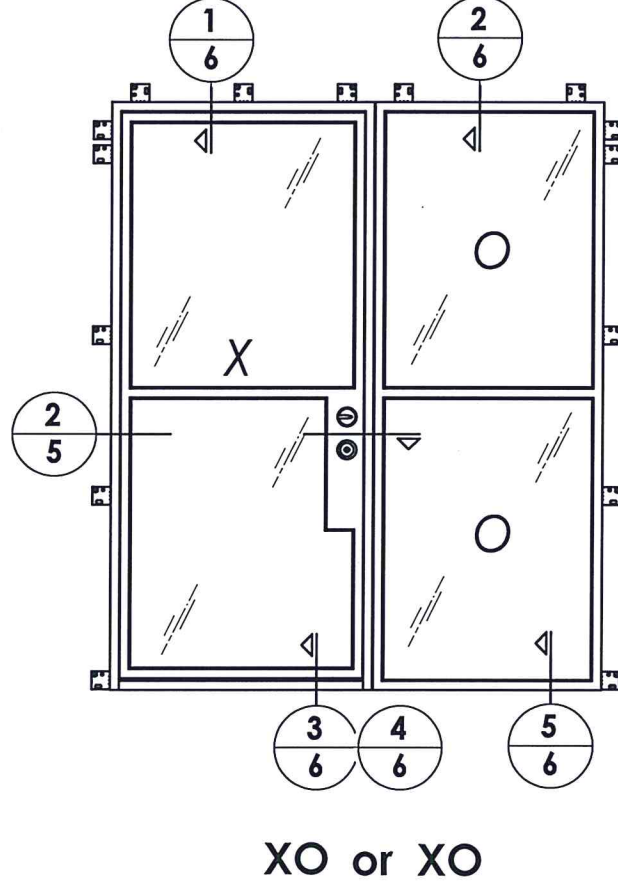
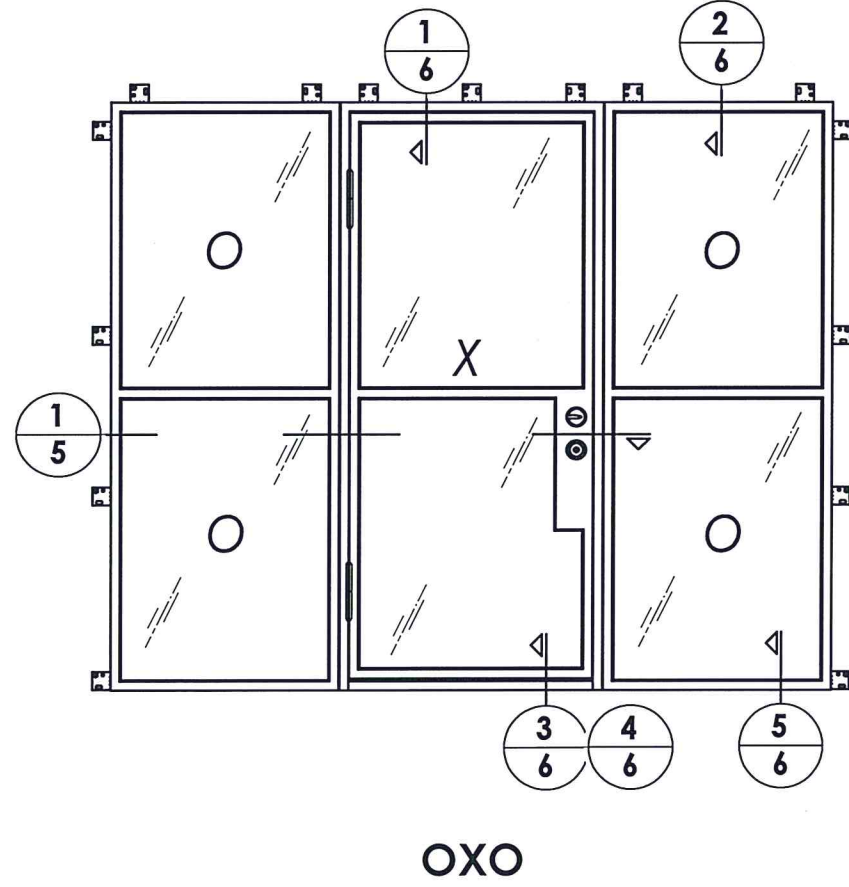
SCALE: N.T.S.

DWG. BY: TRJ

CHK. BY: LFS

DRAWING NO.: TX-4943

SHEET 3 OF 8



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P.O. Box 230 Valrico FL 33595  
Phone No.: 813.659.9197

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PRODUCT:  
COMPLEX INDUSTRIES  
GLAZED IRON DOOR

PART OR ASSEMBLY:  
ELEVATIONS

REVISIONS	
NO.	DATE
1	7/02/20
	UPDATE TO 2018 IBC/IRC CODE
	LFS
	BY

DATE: 8/26/19

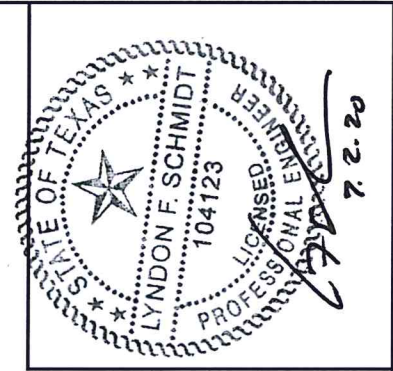
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DWG. BY: TRJ

CHK. BY: LFS

DRAWING NO.:  
TX-4943

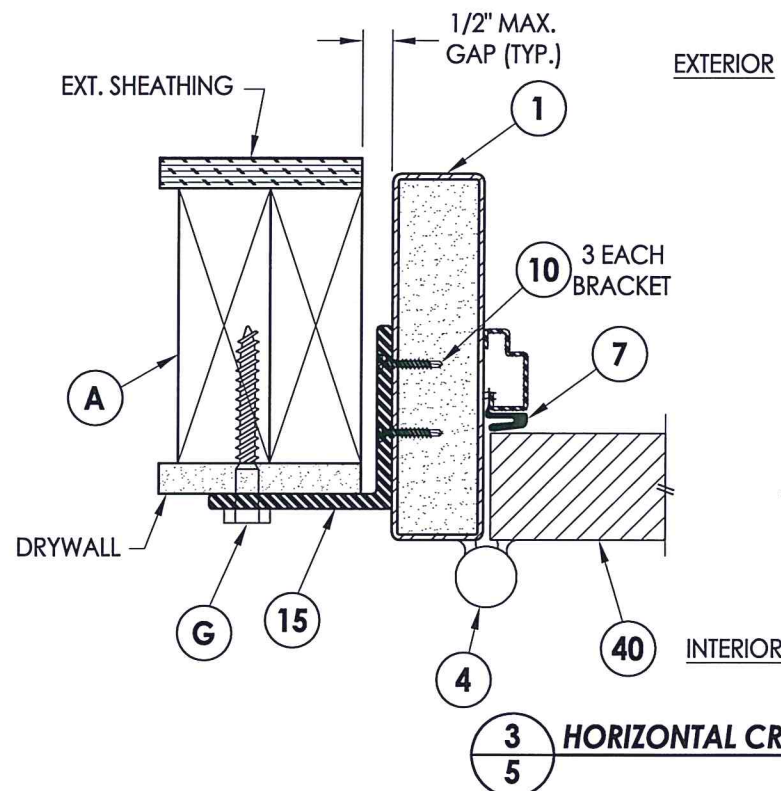
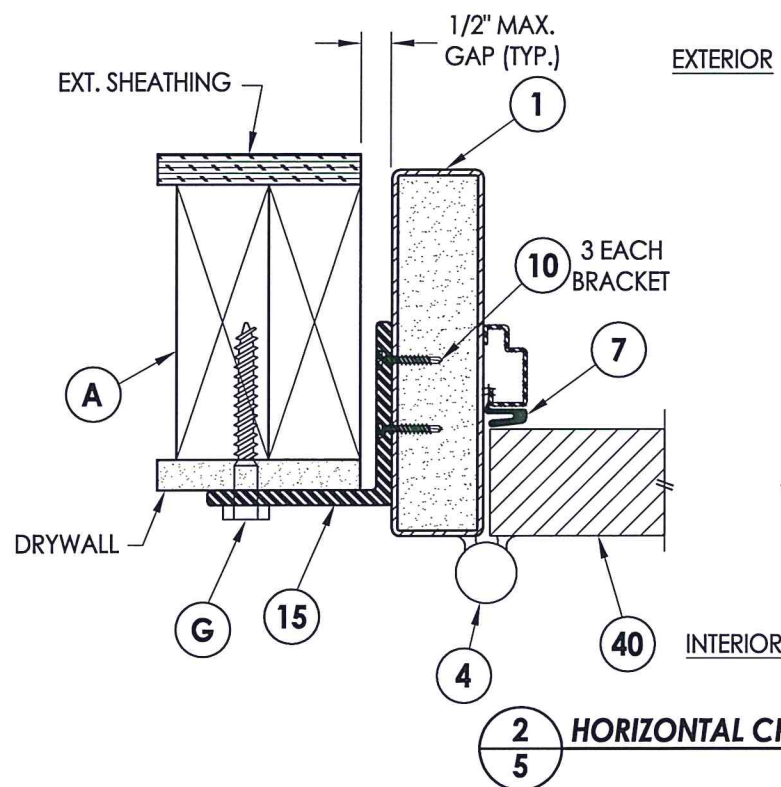
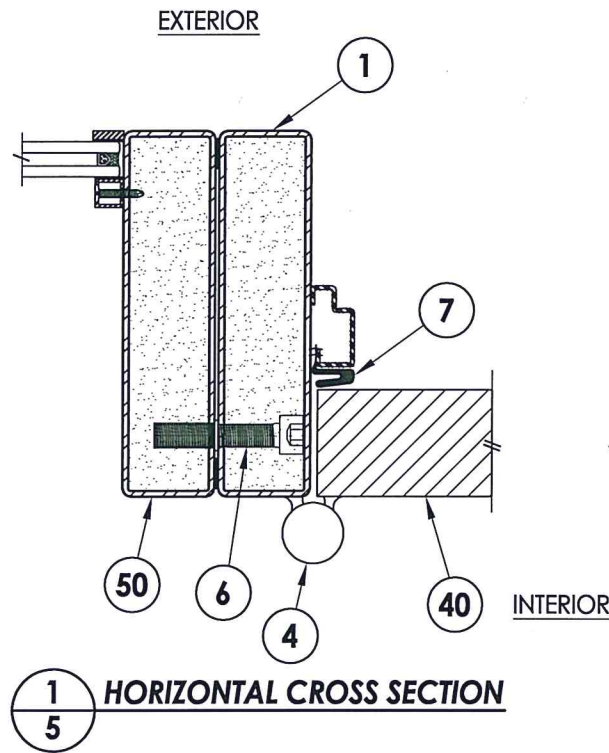
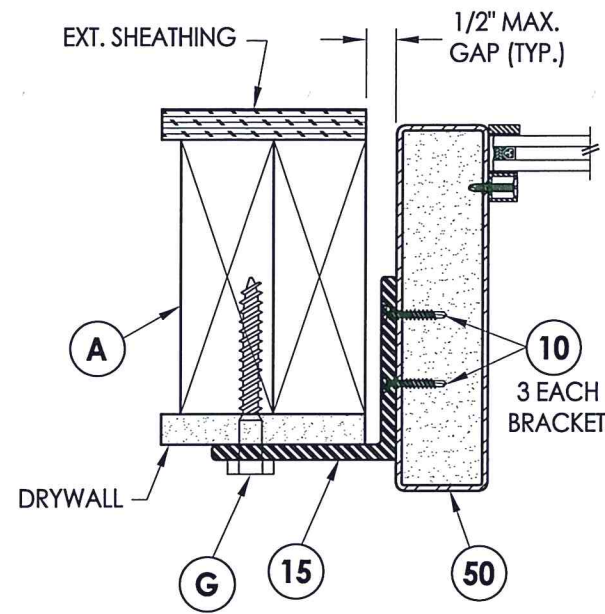
SHEET 4 OF 8



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Phone No.: 813.659.9197

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CERTIFICATE OF REGISTRATION # F-11852

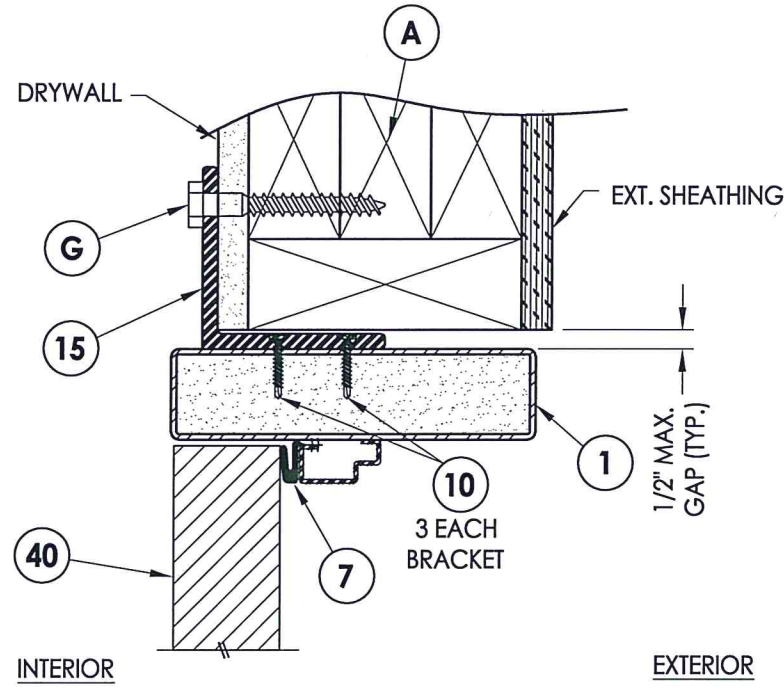


PRODUCT: COMPLEX INDUSTRIES GLAZED IRON DOOR

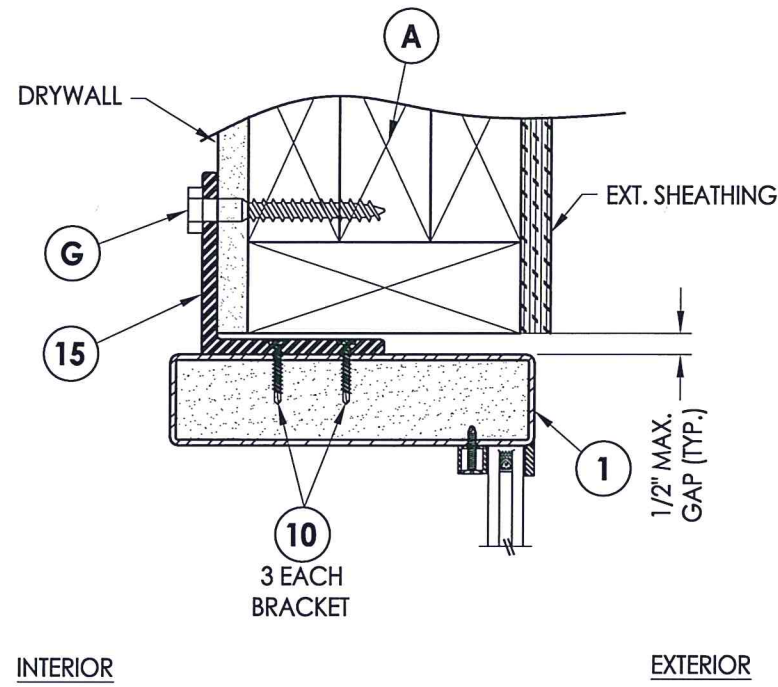
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	DESCRIPTION	BY
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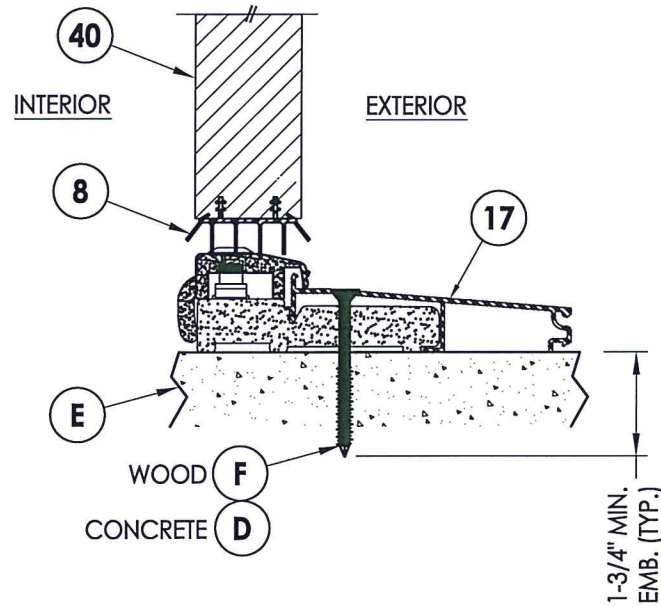
DATE: 8/26/19  
SCALE: N.T.S.  
DWG. BY: TRJ  
CHK. BY: LFS  
DRAWING NO.: TX-4943  
SHEET 5 OF 8



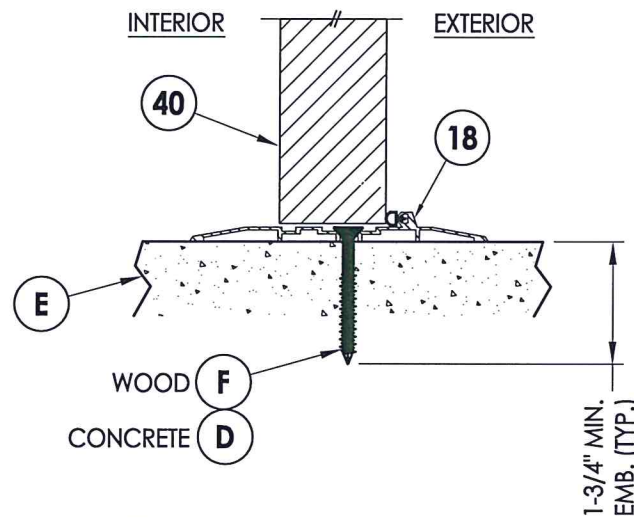
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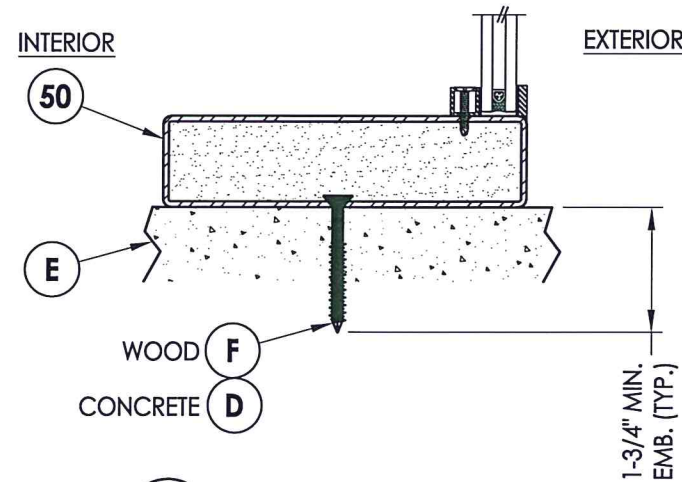
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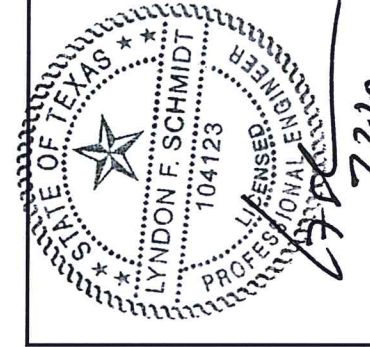
**3**  
**6** VERTICAL CROSS SECTION



**4**  
**6** VERTICAL CROSS SECTION



**5**  
**6** VERTICAL CROSS SECTION



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TEXAS P.E. #104123

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P.O. Box 230 Valrico FL 33595  
Phone No.: 813.659.9197  
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PRODUCT: COMPLEX INDUSTRIES  
GLAZED IRON DOOR

PART OR ASSEMBLY:  
VERTICAL  
CROSS SECTIONS

NO.	DATE	UPDATE TO 2018 IBC/IRC CODE	LFS	BY
1	7/02/20			

DATE: 8/26/19

SCALE: N.T.S.

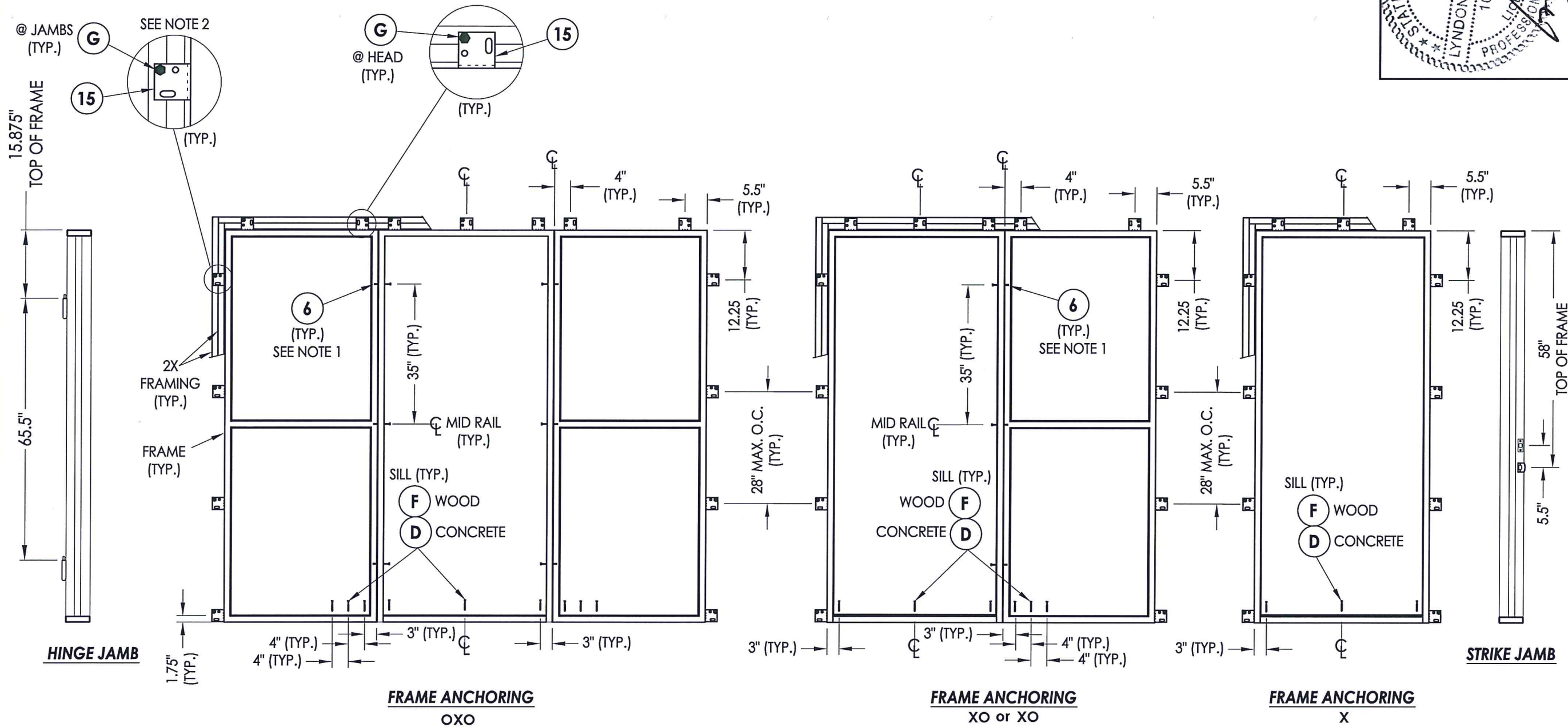
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CHK. BY: LFS

DRAWING NO.:

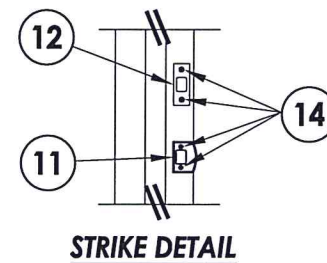
TX-4943

SHEET 6 OF 8



**NOTES:**

- Item is 6 located at the centerline of each transom sash and along door frame where indicated.
- Brackets located at the top & bottom of both jambs are welded to the frame, all others are screwed on.



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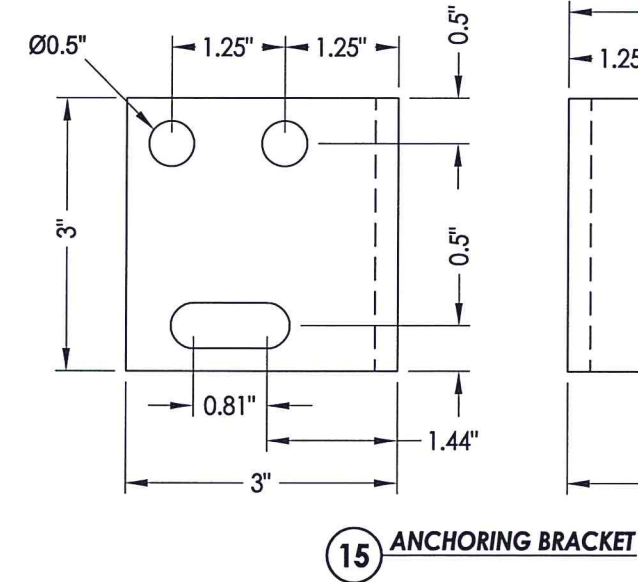
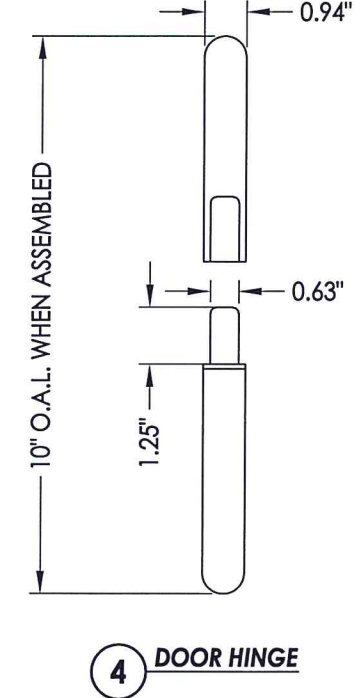
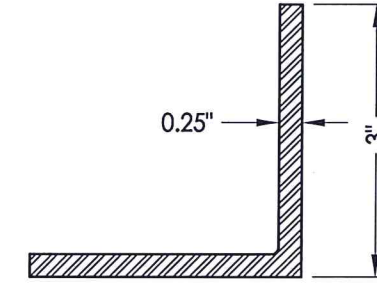
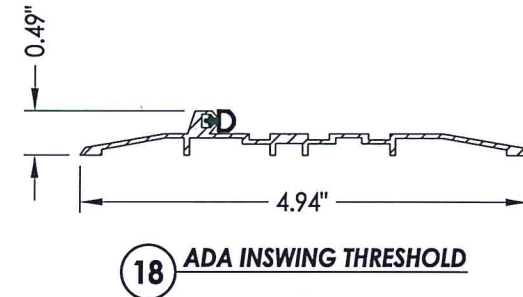
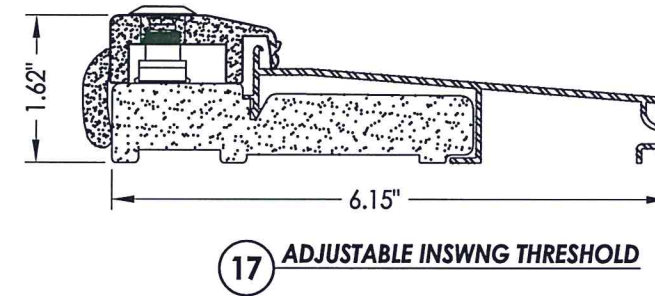
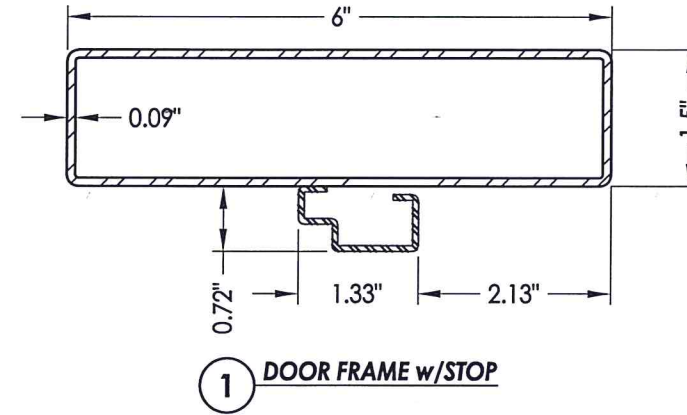
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:		COMPLEX INDUSTRIES GLAZED IRON DOOR	
PART OR ASSEMBLY:		FRAME ANCHORING	
NO.	DATE	DESCRIPTION	BY
1	7/02/20	UPDATE TO 2018 IBC/IRC CODE	LFS
REVISIONS			
DATE:		8/26/19	
SCALE:		N.T.S.	
DWG. BY:		TRJ	
CHK. BY:		LFS	
DRAWING NO.:		TX-4943	
SHEET		7 OF 8	

**BILL OF MATERIALS**

ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM	-
D	1/4" PFH ELCO OR ITW CONCRETE SCREW (1.5" MIN. EMBEDMENT)	STEEL
F	#10 PFH WOOD SCREW (1.5" MIN. EMBEDMENT)	STEEL
G	3/8" X 3" HWH LAG SCREW (2.75" MIN. EMBEDMENT)	STEEL
1	DOOR FRAME w/ STOP	STEEL
4	DOOR HINGE	STEEL
6	10mm X 25mm X 1.50 CAP HEAD SCREW w/ 10mm X 1.50 THREAD INSERT	STEEL
7	WEATHERSTRIP	FOAM
8	DOOR SWEEP	PVC
10	#8 X 1" PPH SELF-DRILLING SMS	STEEL
11	LATCH STRIKE PLATE	STEEL
12	DEADBOLT STRIKE PLATE	STEEL
14	#8-32 X 1/2" PFH MACHINE SCREW	STEEL
15	ANCHORING BRACKET	STEEL
17	ADJUSTABLE INSWING THRESHOLD	ALUM/COMP
18	ADA INSWING THRESHOLD	ALUM
40	DOOR PANEL	STEEL
50	SIDELITE PANEL	STEEL

NOTE: ALL DOOR FRAME TUBULAR STEEL SHALL BE ASTM A36 STEEL



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TEXAS P.E. #104123

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P.O. Box 230 Vairlico FL 33595  
Phone No.: 813.659.9197

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PRODUCT: COMPLEX INDUSTRIES GLAZED IRON DOOR

PART OR ASSEMBLY: BILL OF MATERIALS AND COMPONENTS

NO.	DATE	UPDATE TO 2018 IBC/IRC CODE	LFS	BY
1	7/02/20			

REVISIONS

DATE: 8/26/19  
SCALE: N.T.S.  
DWG. BY: TRJ  
CHK. BY: LFS  
DRAWING NO.: TX-4943  
SHEET 8 OF 8

**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 BUILDEX TAPCON®	1/4"	1-3/4"	1-1/2"	4"
ELCO ULTRACON®	1/4"	1-3/4"	2-1/2"	4"