

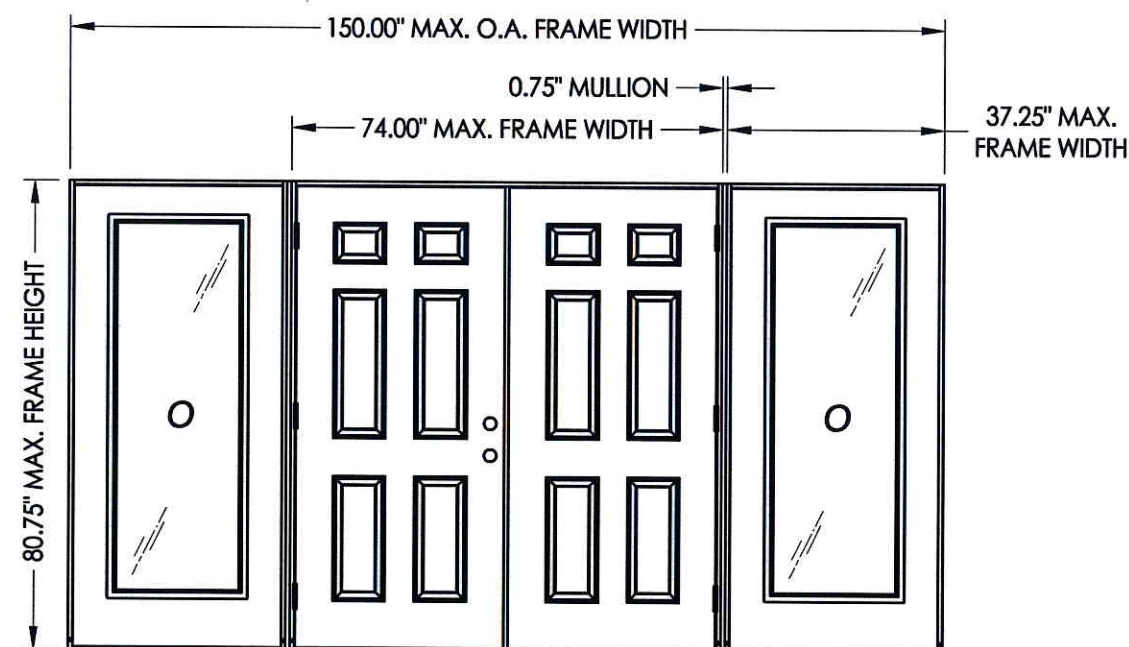
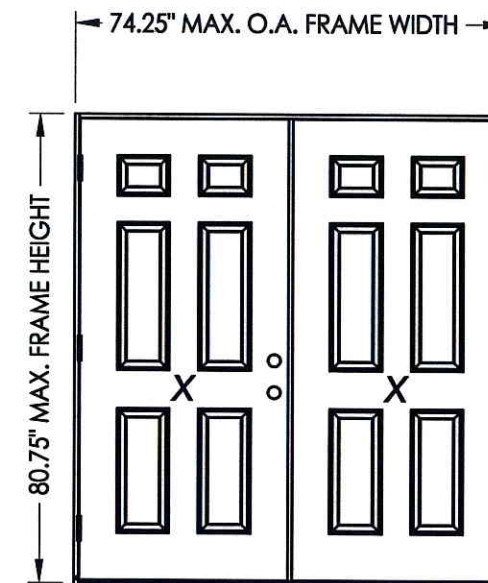
OPAQUE FIBERGLASS DOUBLE DOOR w/ or w/out SIDELITES OUTSWING "IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

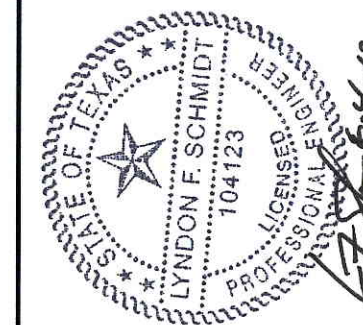
The Trinity Fiberglass Door described herein complies with the 2006 International Residential Code (IRC), Sections R301 & R613 and the 2006 International Building Code (IBC), Sections 1405.12, 1609, 1714.5, 2403 and 2404 (including Texas revisions) subject to the following conditions:

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. 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 and glazing details
4	Elevations
5	Horizontal cross sections
6	Vertical cross sections
7	Vertical cross sections
8	Frame anchoring (XX)
9	Frame anchoring (OXXO)
10	Components
11	Astragal details
12	Bill of materials



CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) ALUMINUM ASTRAGAL		DESIGN PRESSURE (PSF) PVC ASTRAGAL	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX	74.25" x 80.75"	+ 55.0	- 55.0	+ 47.0	- 47.0
OXXO	150.0" x 80.75"	+ 55.0	- 55.0	+ 47.0	- 47.0

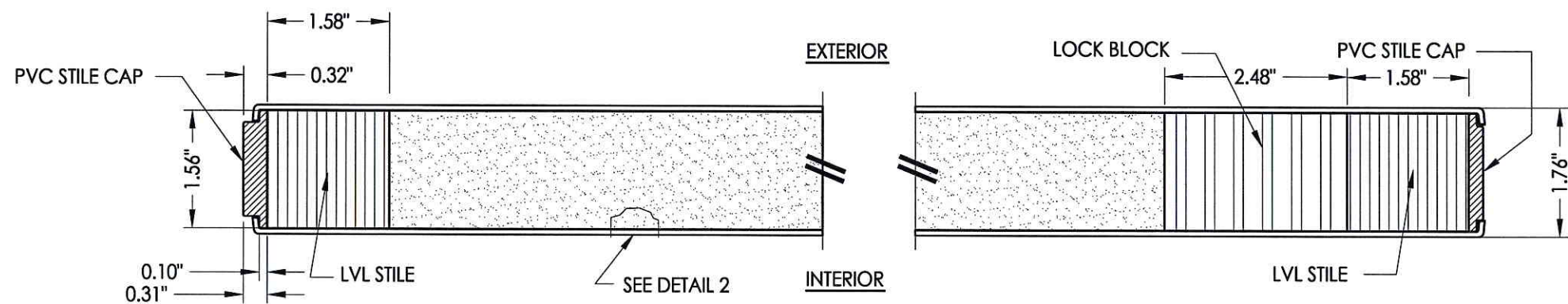


Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

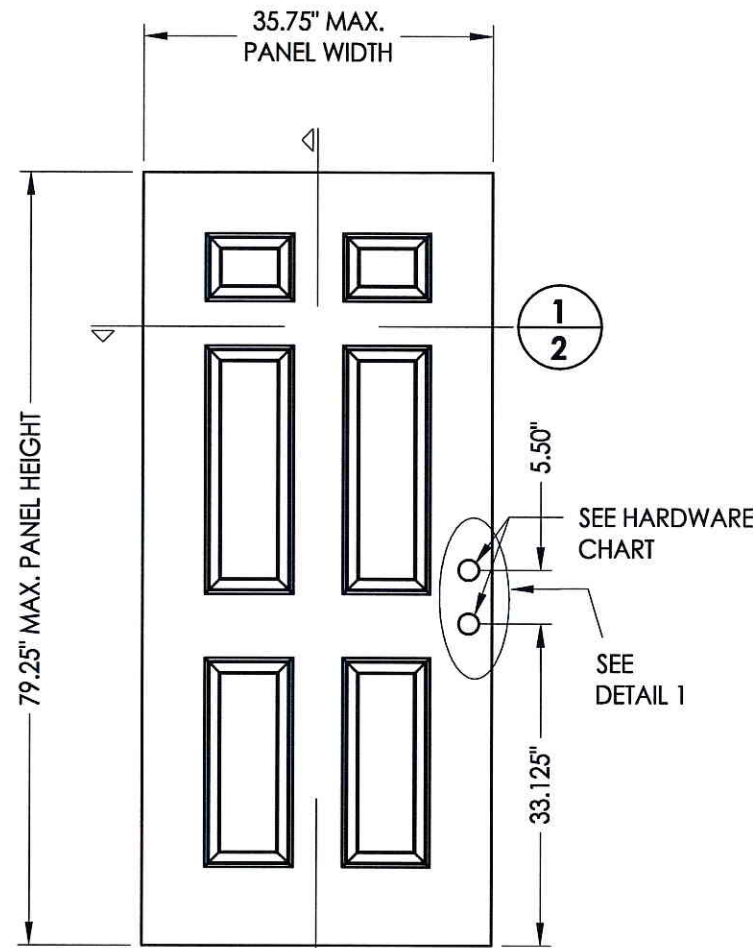
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

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

PRODUCT:	TRINITY GLASS INT'L	
PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
NO.	DATE	BY
REVISIONS		
DATE: 5/10/12		
SCALE: N.T.S.		
DWG. BY: JK		
CHK. BY: LFS		
DRAWING NO.: TX-4153		
SHEET 1 OF 12		

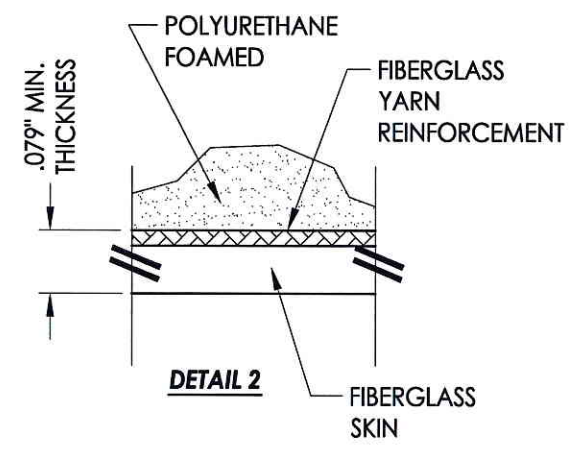


1
2 HORIZONTAL CROSS SECTION

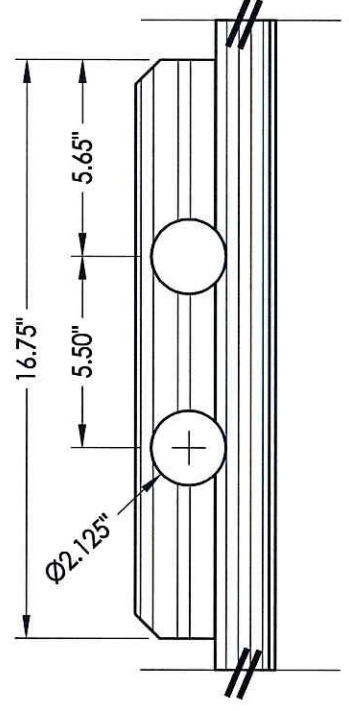


40 OPAQUE DOOR

DOOR SKIN: 0.079\"/>

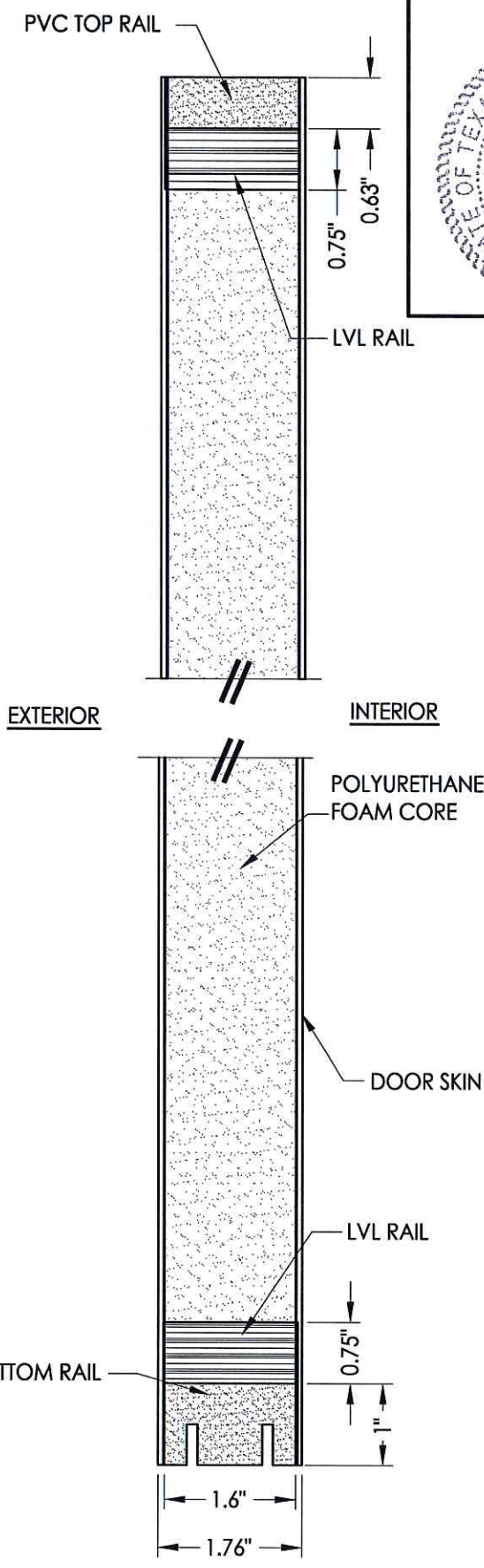


DETAIL 2

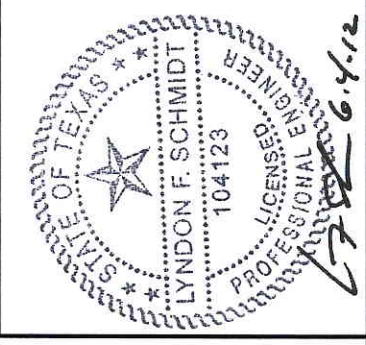


DETAIL 1

HARDWARE CHART	
MANUFACTURER	MODEL
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)



2
2 VERTICAL CROSS SECTION



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PRODUCT: TRINITY GLASS INT'L

PART OR ASSEMBLY: DOOR PANEL DETAILS

REVISIONS		
NO.	DATE	BY

DATE: 5/10/12

SCALE: N.T.S.

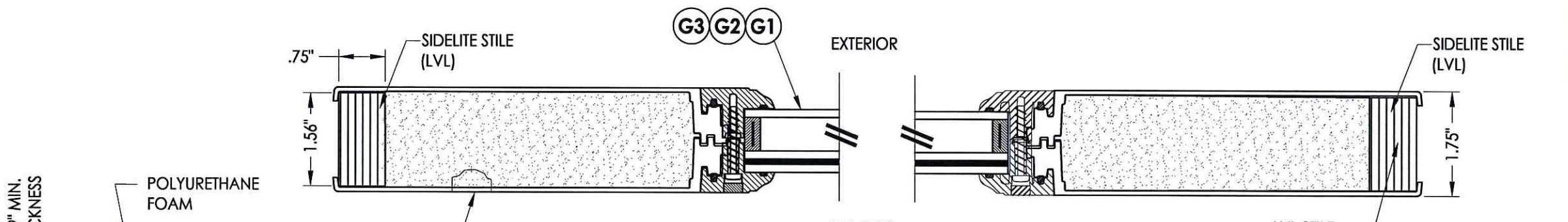
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CHK. BY: LFS

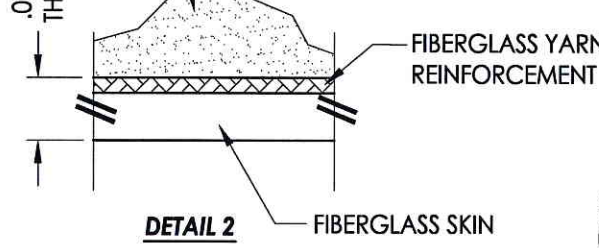
DRAWING NO.: TX-4153

SHEET 2 OF 12

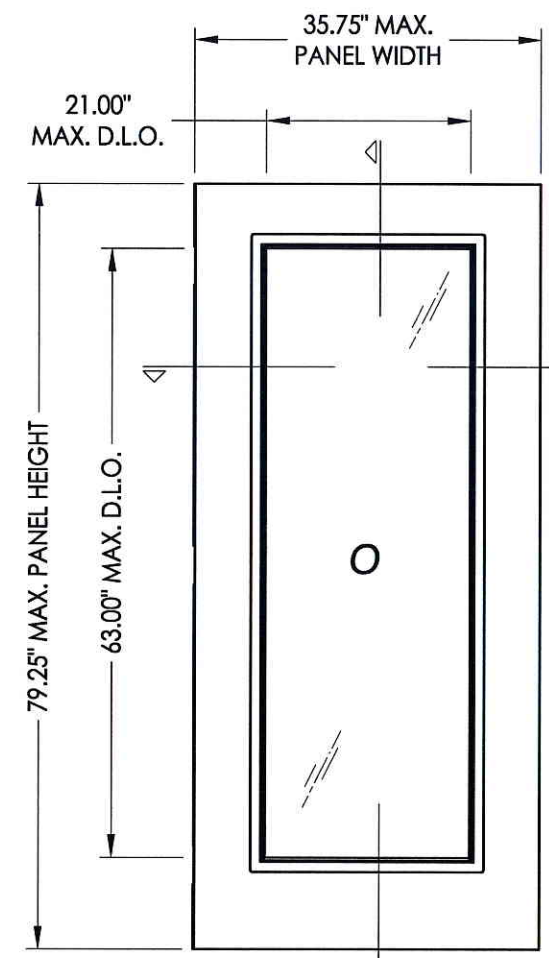
R:\A - Projects\Project Folders\Proj 1001-1100\pf1089\1.D. RWBC Drawings\TEXAS 2012\TX-4150-53.dwg, 3.4



1
3 **HORIZONTAL CROSS SECTION**

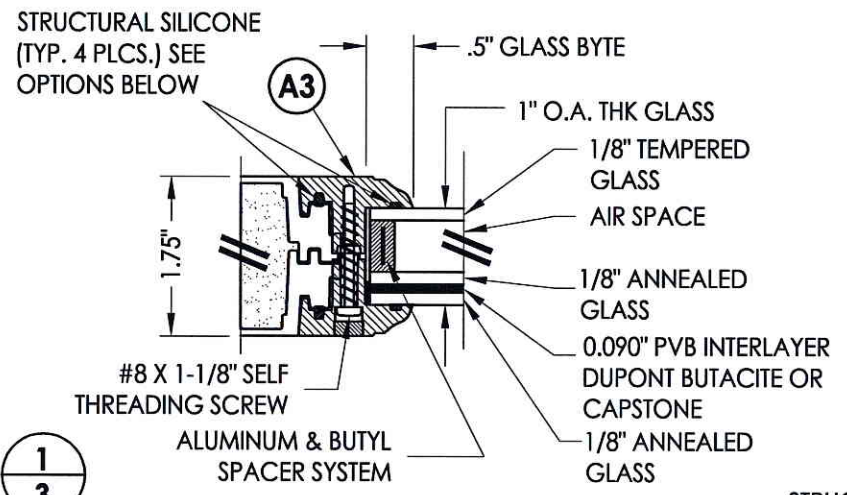


DETAIL 2
FIBERGLASS SKIN

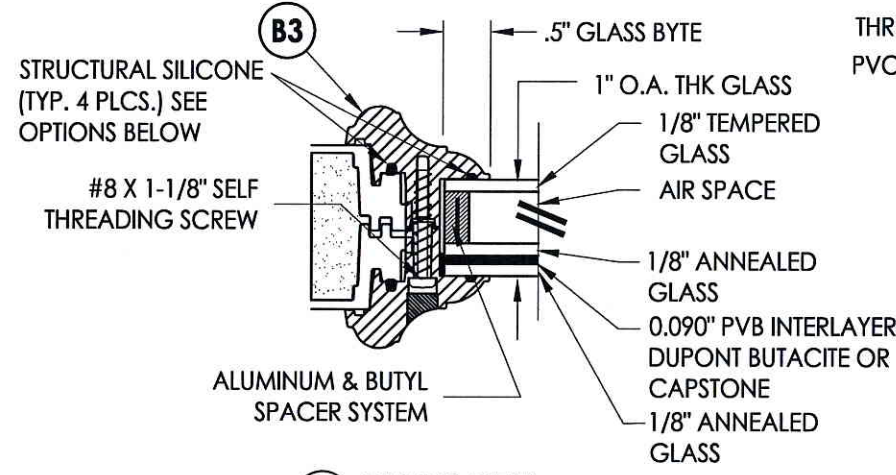


2
3 **60 SIDELITE**

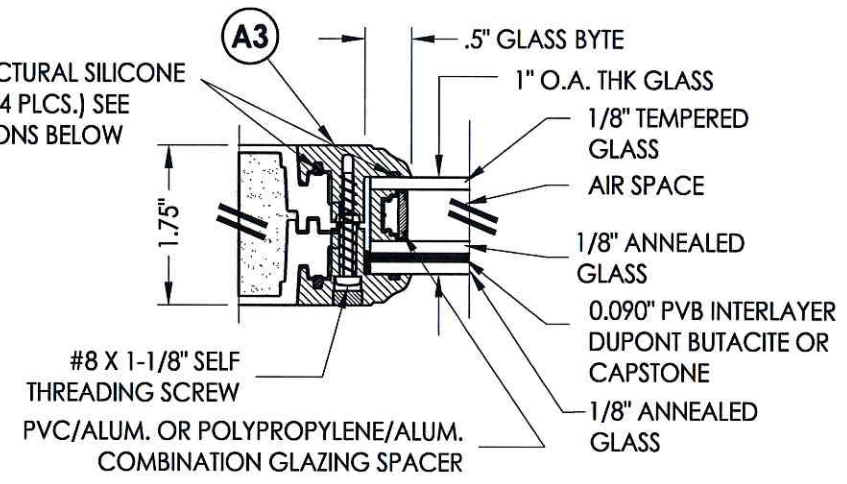
DOOR SKIN: 0.079" MIN. THK. FIBERGLASS
CORE MATERIAL: POLYURETHANE FOAM



G1 **GLAZING DETAIL**



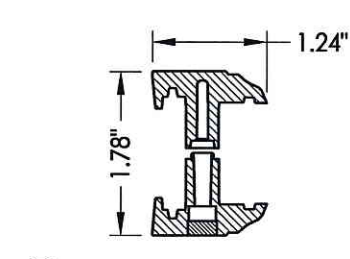
B3 **GLAZING DETAIL**



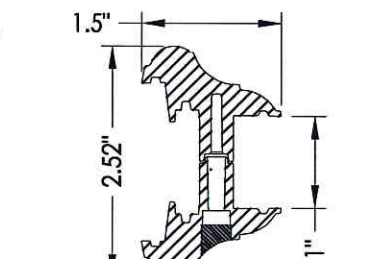
G2 **GLAZING DETAIL**

STRUCTURAL SILICONE OPTIONS:
SILICONE BY CAPSTONE (4PL)
DOW 995 STRUCTURAL SILICONE
SILICONE BY DONGYANG SILICONE CO.

LITE FRAME SCREW SPACING:
At each corner plus 6 more along sides (11\"/>



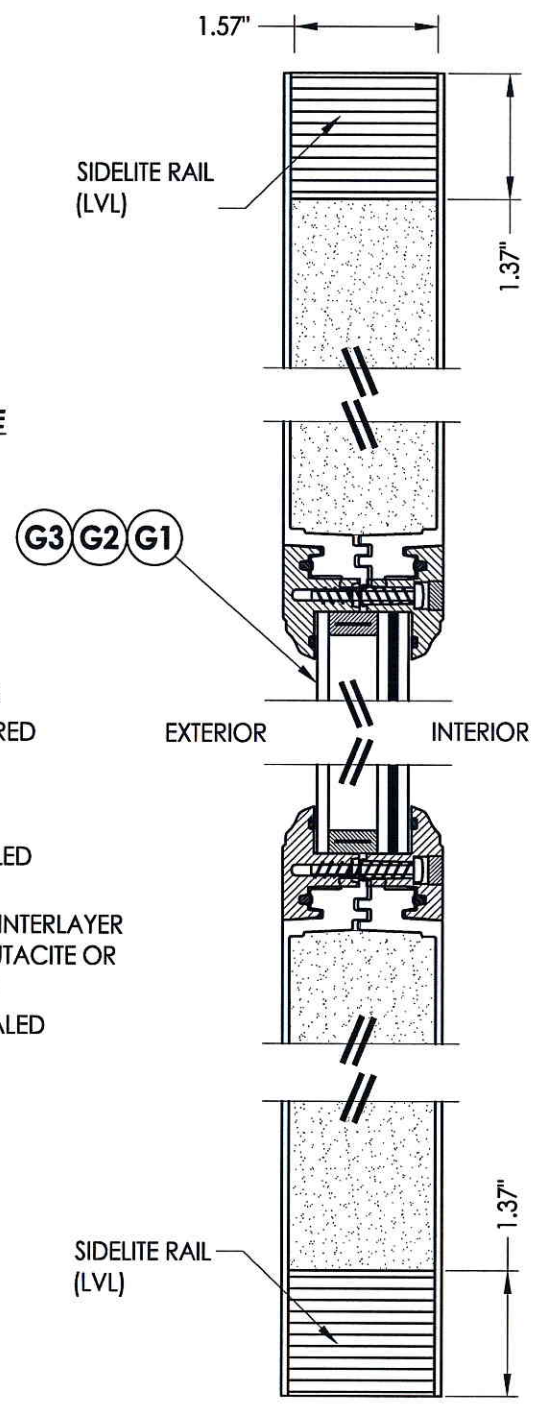
A3 **FLUSH GLAZED FRAME**
ABS or PC/ASA



B3 **MAHOGANY LITE FRAME**
ABS or PC/ASA



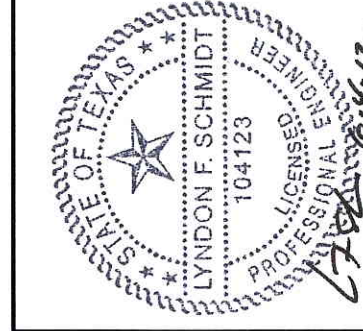
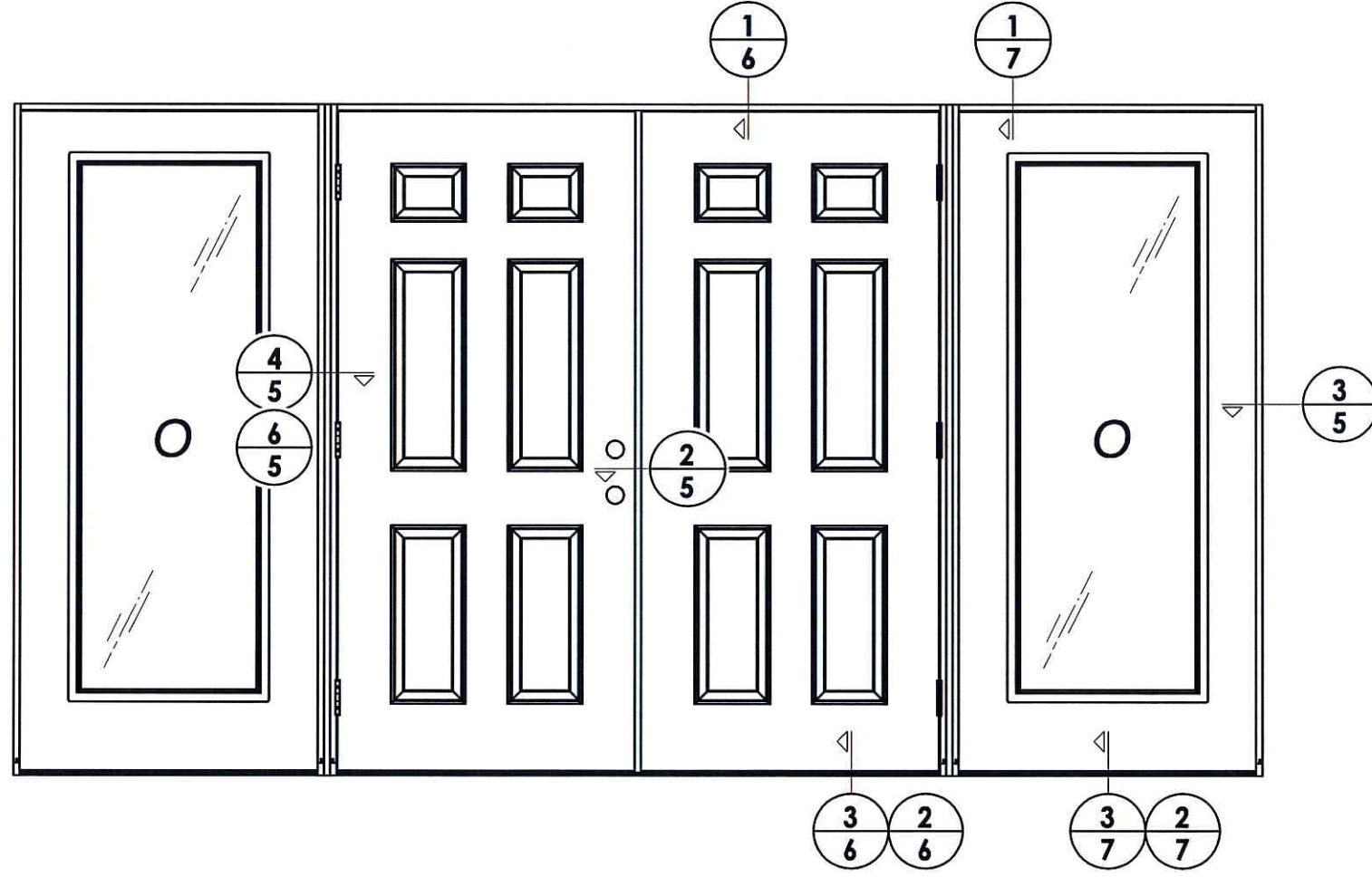
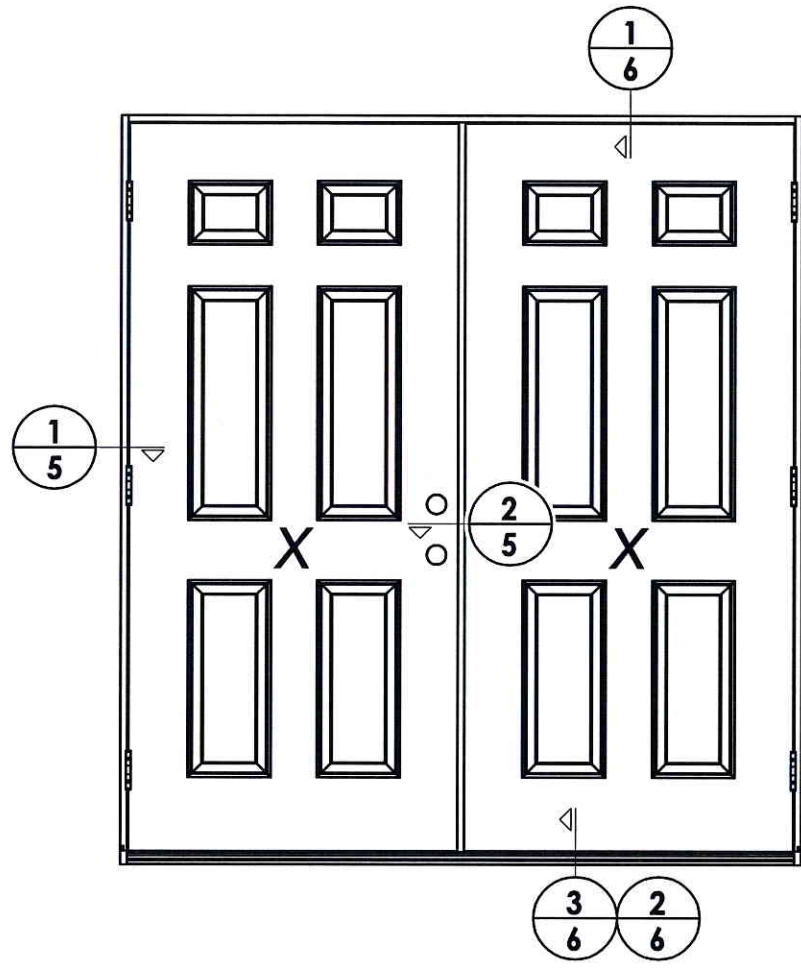
Documents Prepared By: Lyndon F. Schmidt, P.E.
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Phone No.: 813.659.9197
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2
3 **VERTICAL CROSS SECTION**

PRODUCT:	TRINITY GLASS INT'L
PART OR ASSEMBLY:	SIDELITE PANEL
	DETAILS AND GLAZING DETAILS
NO.	DATE
BY	REVISIONS
DATE:	5/10/12
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4153
SHEET	3 OF 12

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L

PART OR ASSEMBLY: ELEVATIONS

DATE: 5/10/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

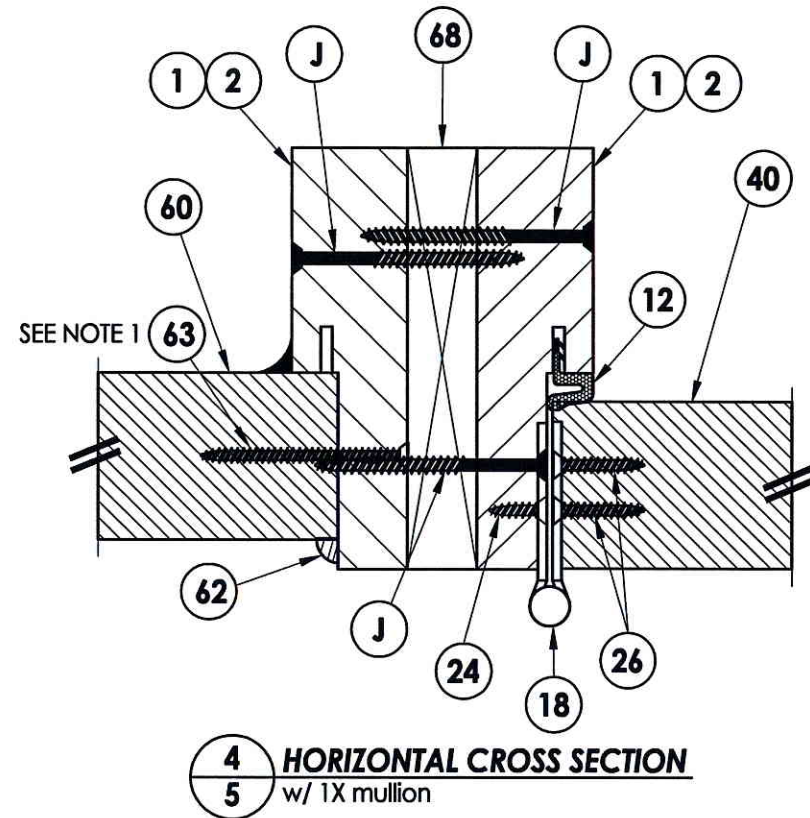
DRAWING NO.:

TX-4153

SHEET 4 OF 12

NO.	DATE	BY

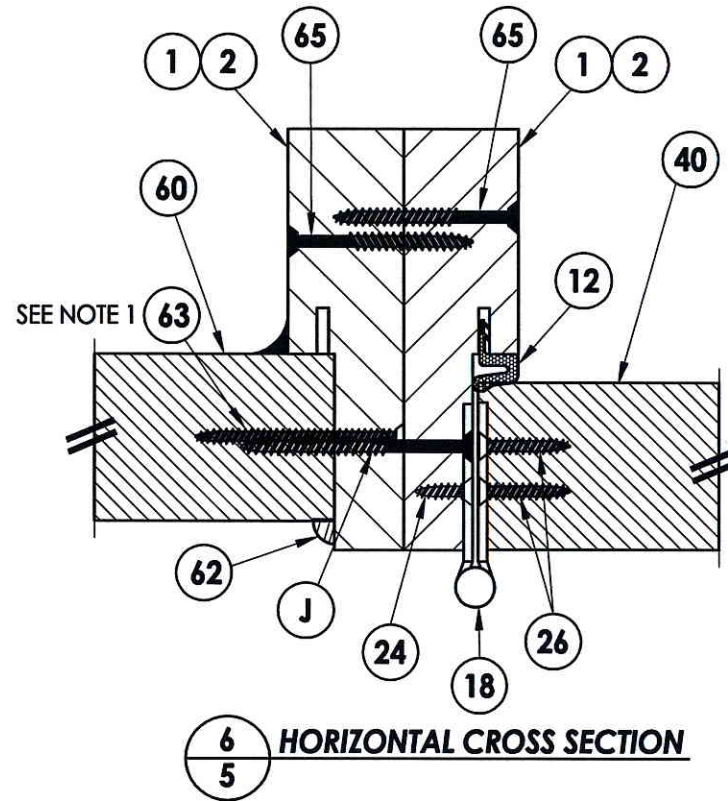
REVISIONS



4 HORIZONTAL CROSS SECTION
5 w/ 1X mullion

INTERIOR

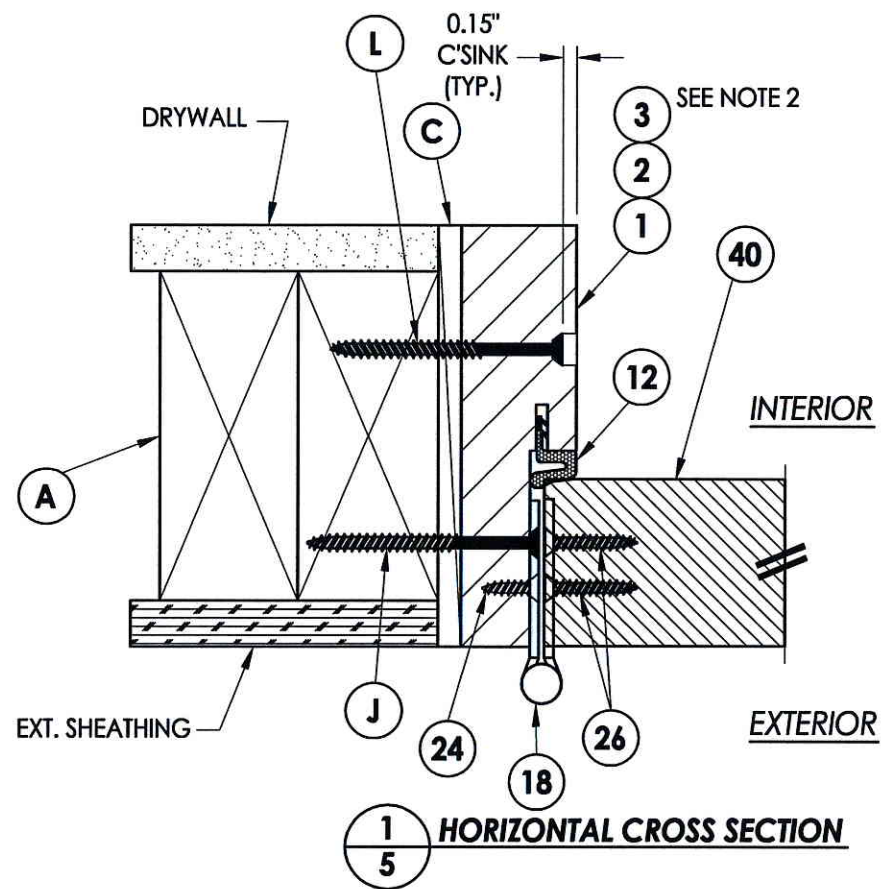
EXTERIOR



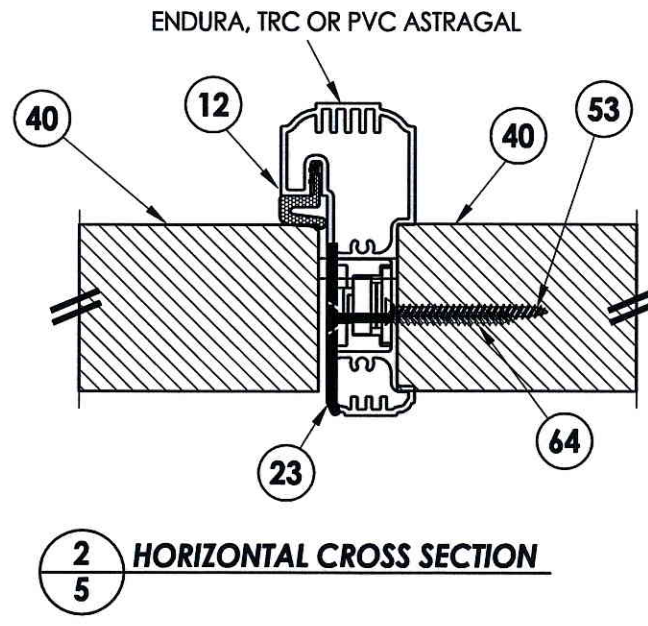
6 HORIZONTAL CROSS SECTION
5

NOTE:

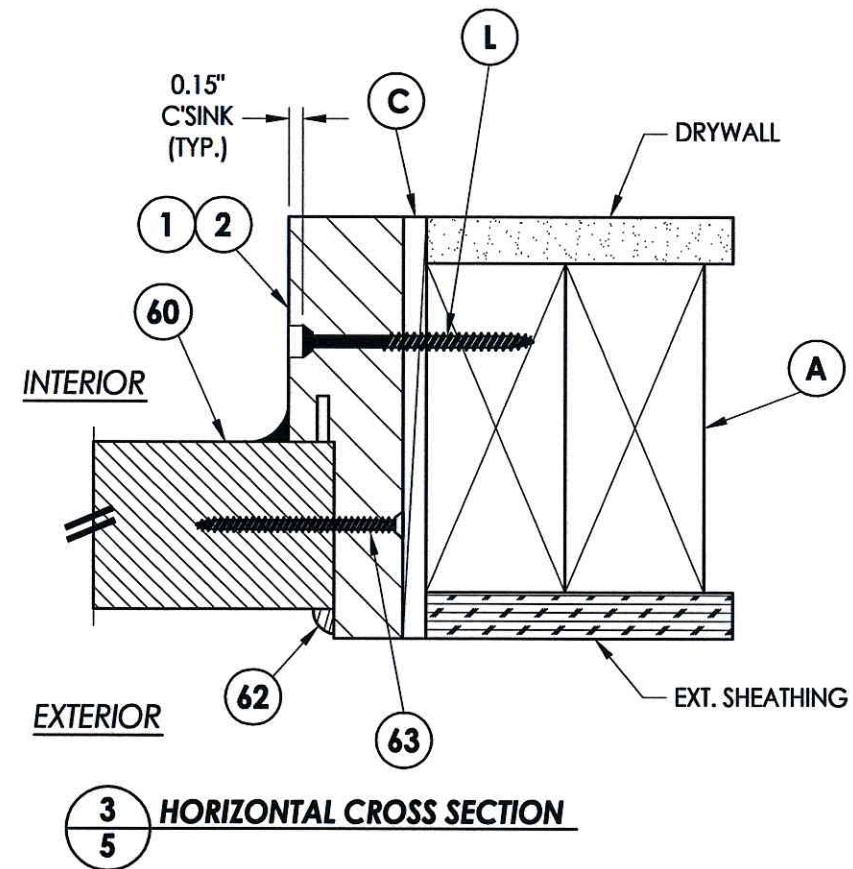
- Item #63 located 6" from each end and 3 more equally spaced (5 total).
- PVC frame may be used with double door without sidelites only.



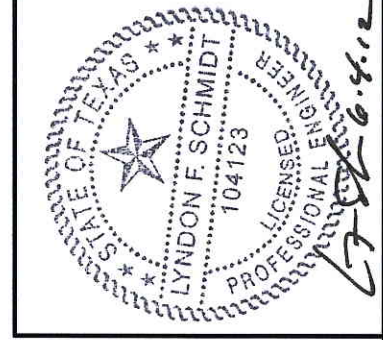
1 HORIZONTAL CROSS SECTION
5



2 HORIZONTAL CROSS SECTION
5



3 HORIZONTAL CROSS SECTION
5



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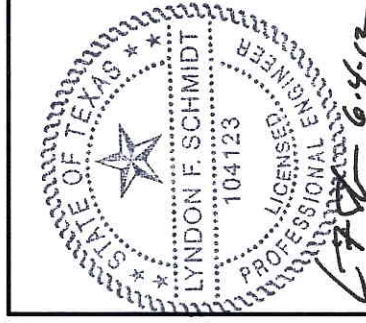
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PRODUCT:	TRINITY GLASS INT'L
PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

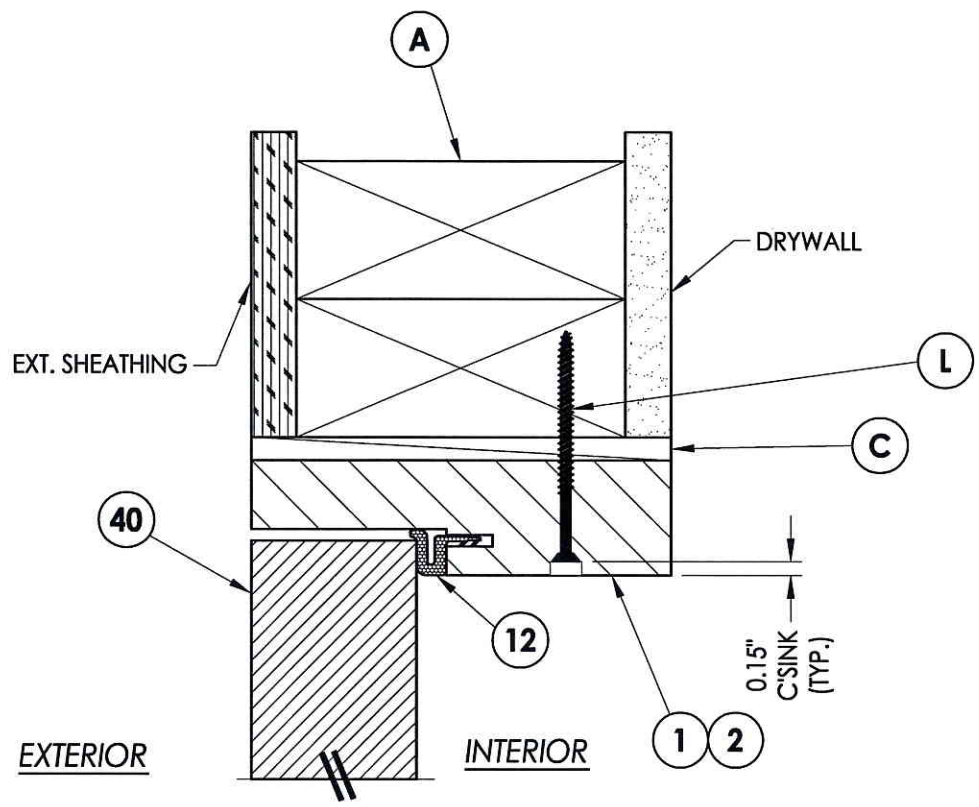
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SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4153
SHEET	5 of 12



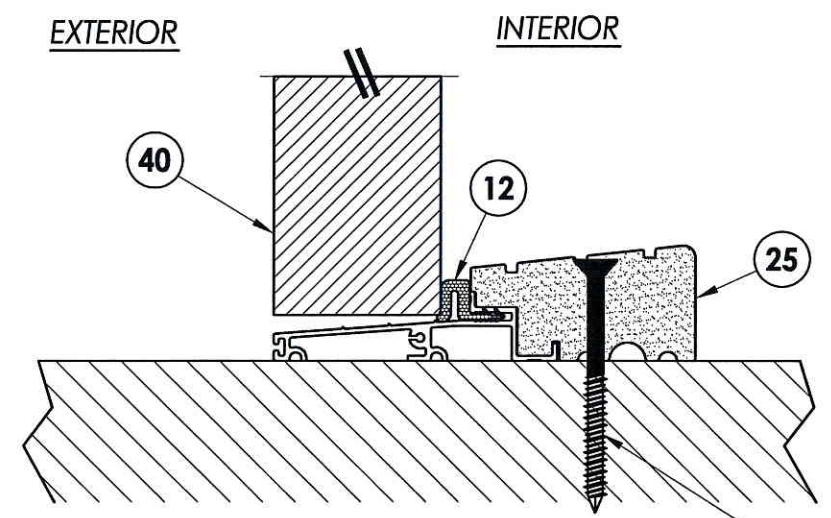
Documents Prepared By: Lyndon F. Schmidt, P.E.
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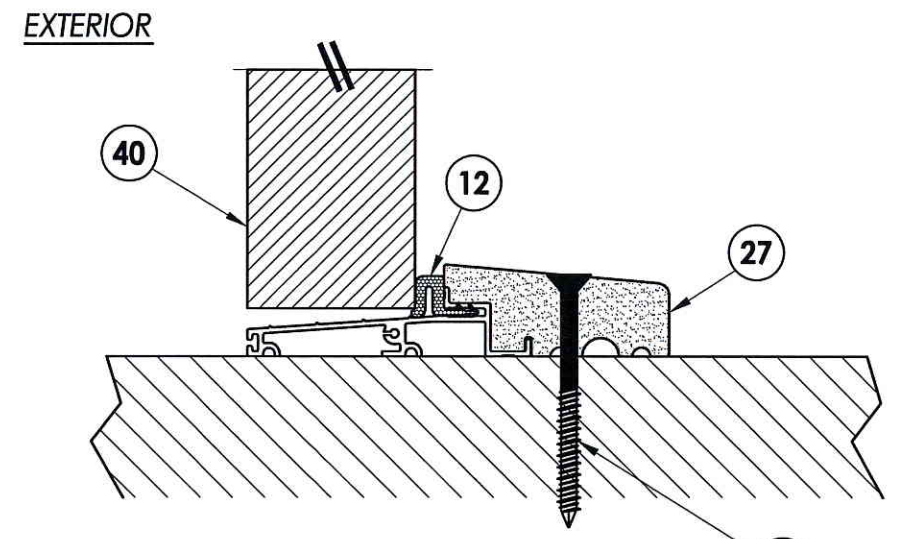


1
6 VERTICAL CROSS SECTION



2
6 VERTICAL CROSS SECTION
 Outswing sill - high dam

P WOOD
D CONCRETE



3
6 VERTICAL CROSS SECTION
 Outswing sill

P WOOD
D CONCRETE

PRODUCT:	TRINITY GLASS INT'L
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

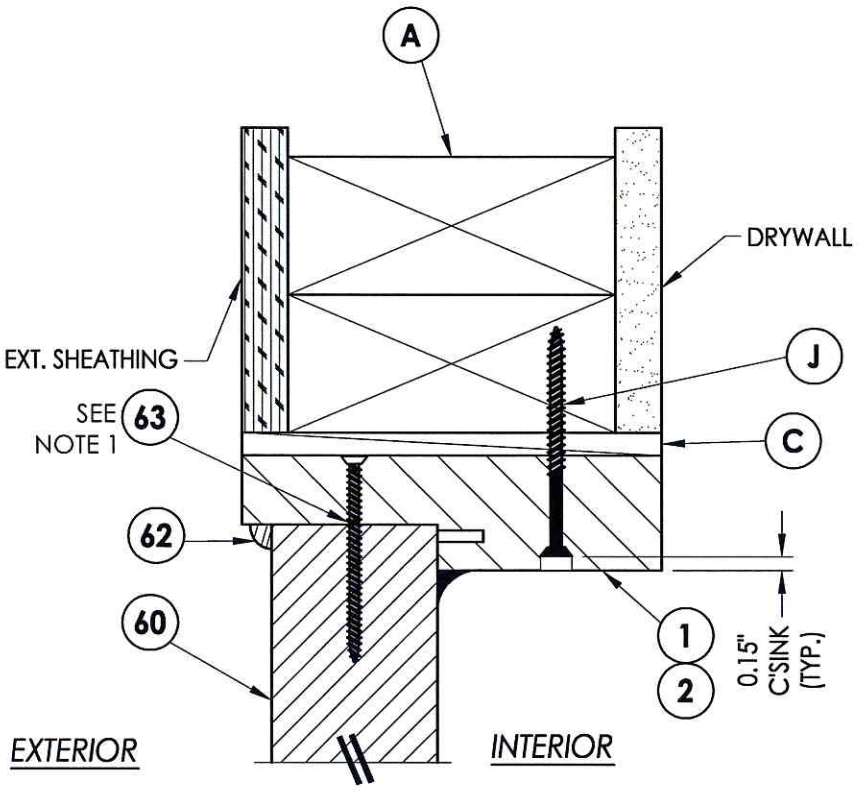
DATE:	5/10/12
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4153
SHEET	6 OF 12



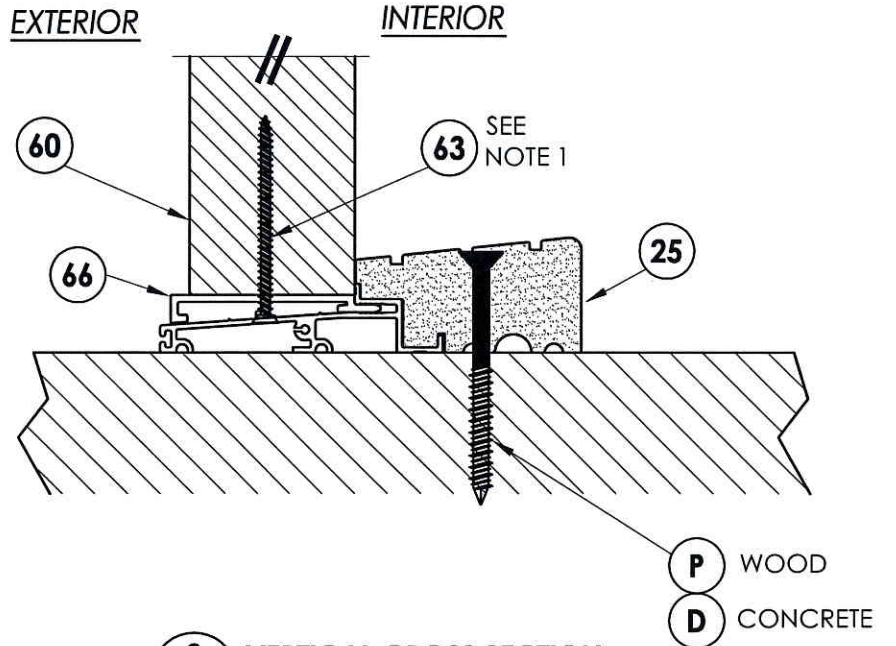
Documents Prepared By: Lyndon F. Schmidt, P.E.
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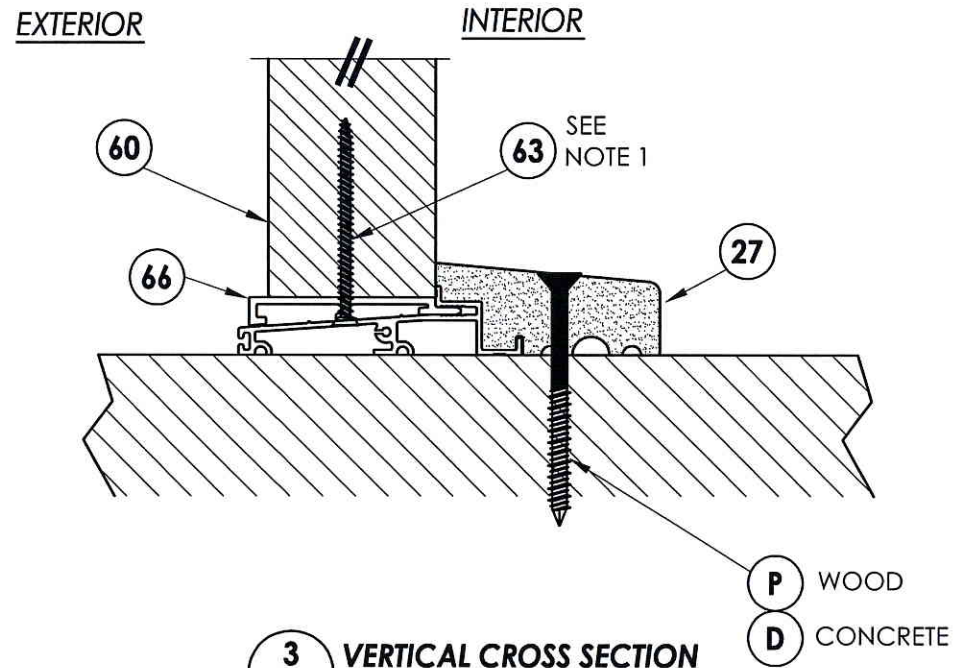


1
7 VERTICAL CROSS SECTION



2
7 VERTICAL CROSS SECTION

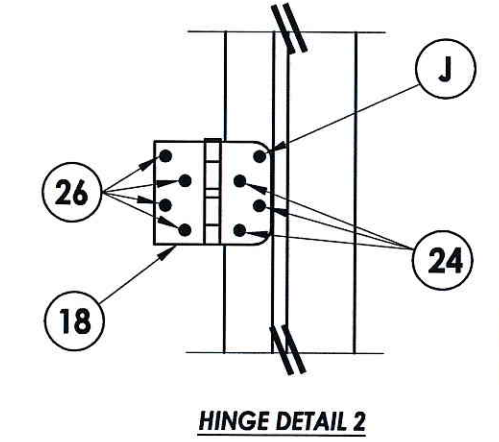
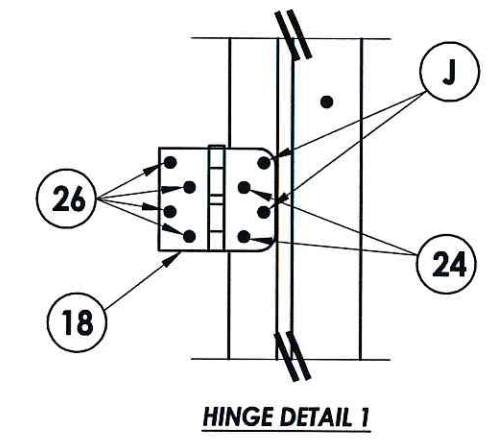
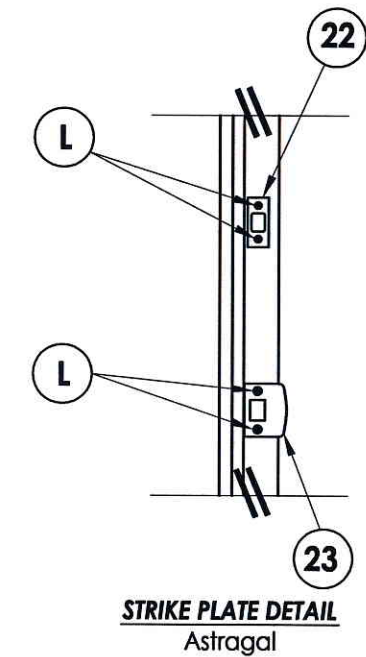
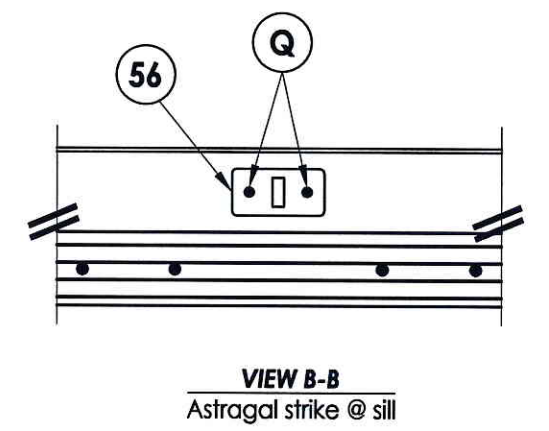
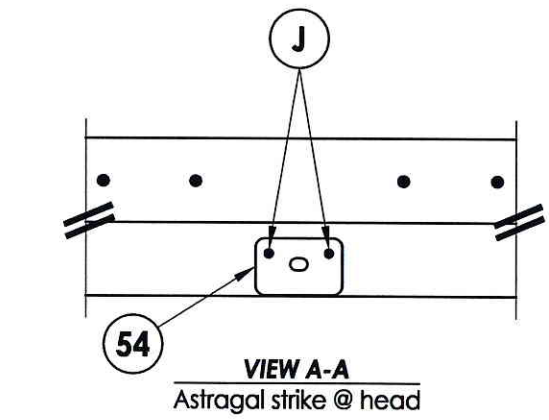
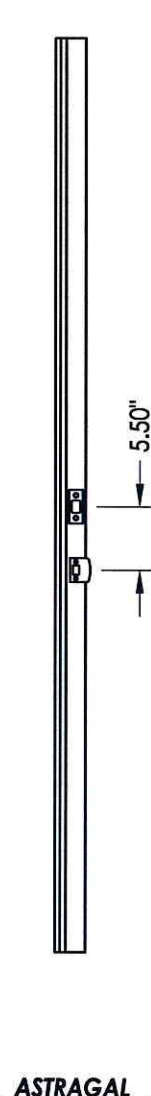
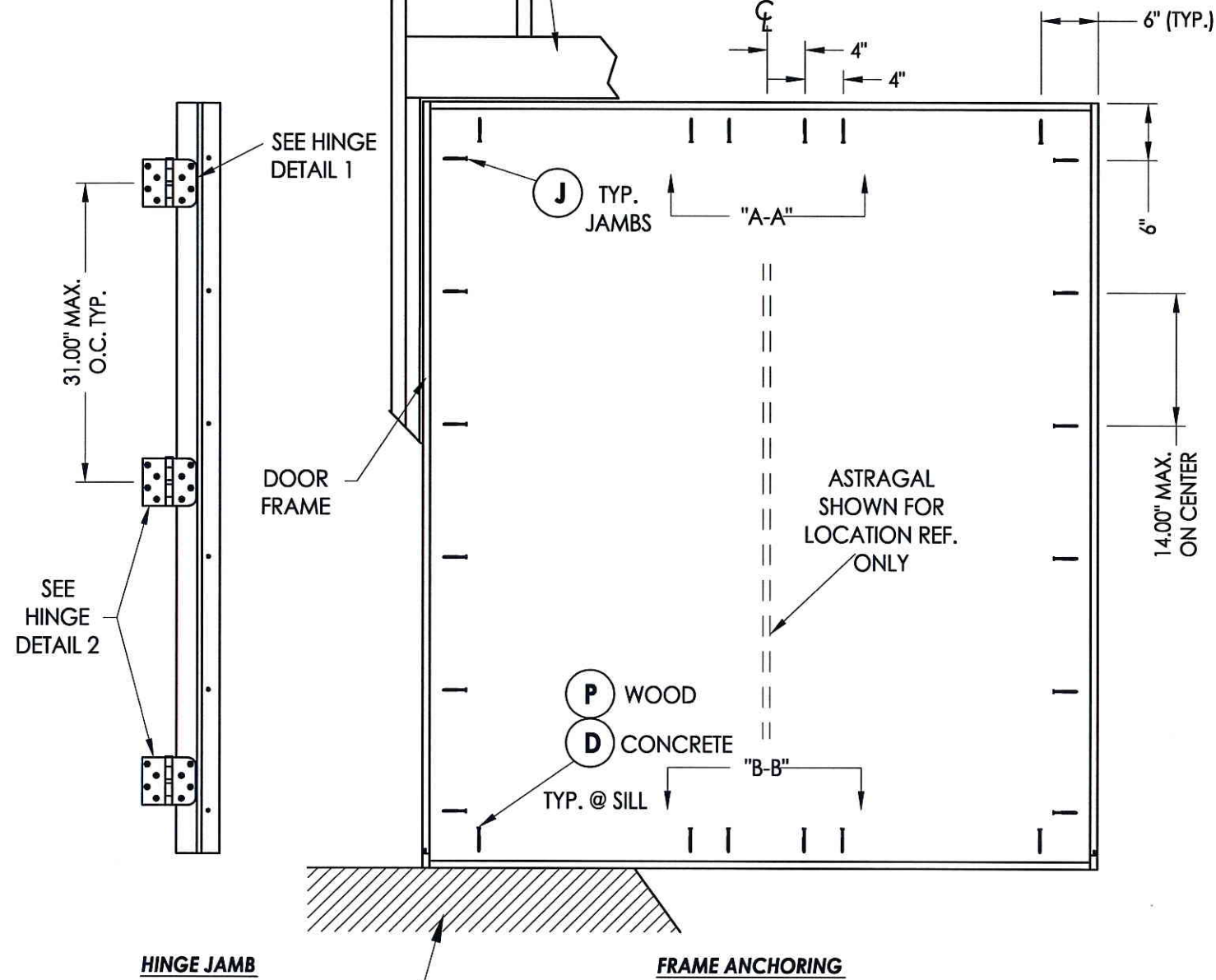
NOTE:
1. Screws thru head and sill jamb located 3" from each end and on center line.



3
7 VERTICAL CROSS SECTION

PRODUCT:	TRINITY GLASS INT'L	
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS	
NO.	DATE	BY
REVISIONS		
DATE:	5/10/12	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4153	
SHEET	7 OF 12	

2X FRAMING TO BE DESIGNED BY THE ENGINEER OR ARCHITECT OF RECORD BASED ON WIND LOADS AND THE CLADDING BEING USED (TYP.).

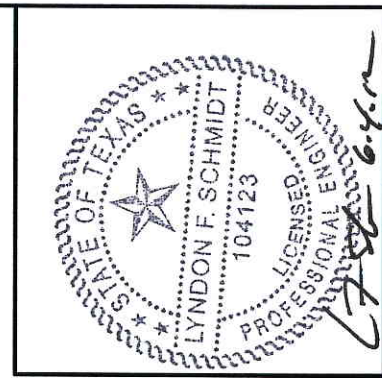


FLOOR SUBSTRATE MATERIAL (TYP.)
 CONCRETE (MIN. 3000 PSI)
 WOOD (G >= 0.42)

CONCRETE ANCHOR NOTES:

- Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints. If 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" dimensions are not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW	1/4"	1-1/4"	2-1/2"	3"
ITW	3/16"	1-1/4"	2-5/8"	1-1/8"
ELCO	1/4"	1-1/4"	1"	4"



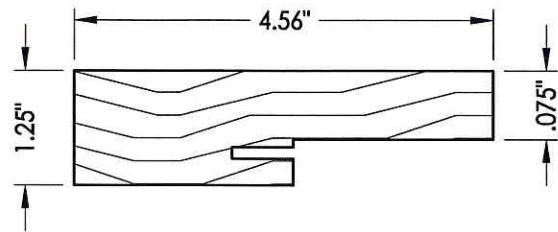
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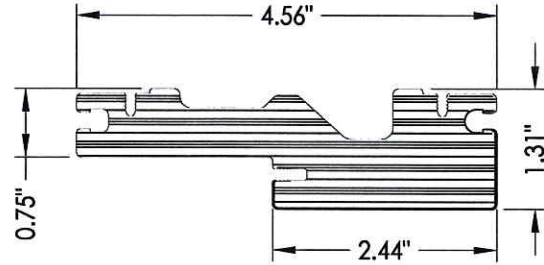
PRODUCT:	TRINITY GLASS INT'L
PART OR ASSEMBLY:	FRAME ANCHORING (XX)

NO.	DATE	BY	REVISIONS

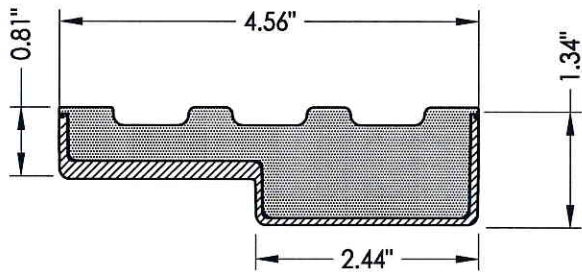
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 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4153
 SHEET 8 OF 12



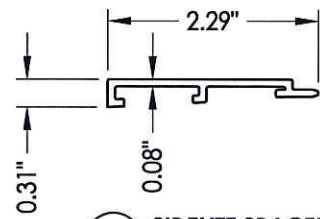
1 SIDE & HEAD JAMBS



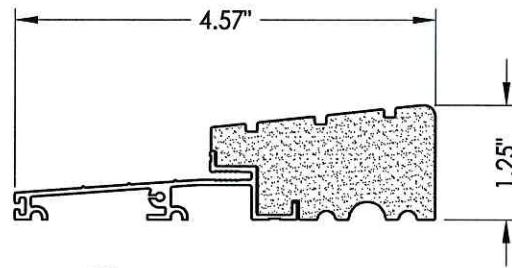
**3 HEAD AND JAMBS
PVC**



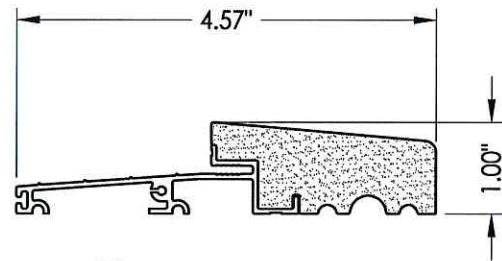
**2 HEAD AND JAMBS
Composite PVC Base
w/ Fiberglass Wrap**



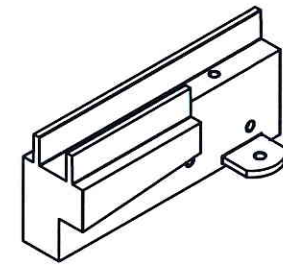
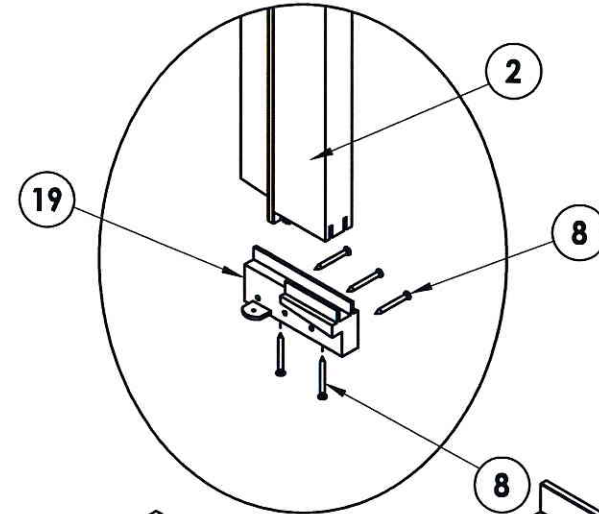
**66 SIDELITE SPACER
Outswing**



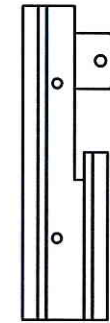
**25 OUTSWING THRESHOLD
High-dam option**



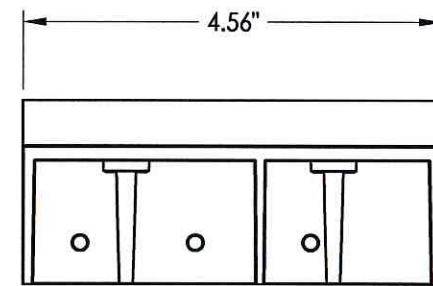
27 OUTSWING THRESHOLD



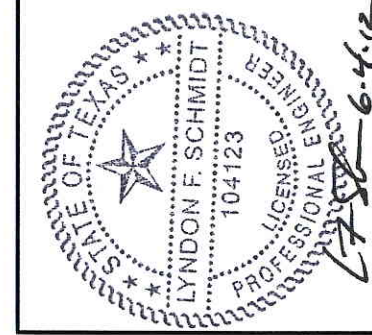
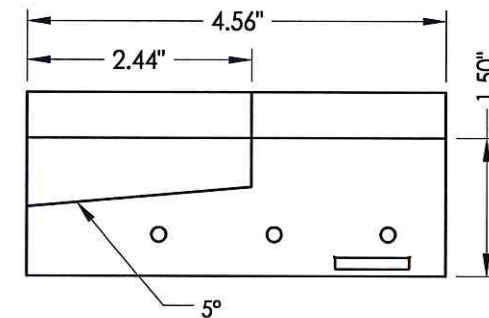
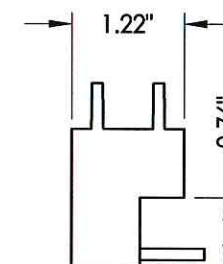
**SILLKEY, LEFT
SCALE: NONE**



**SILLKEY, RIGHT
SCALE: NONE**



**19 SILLKEY DETAILS
Optional**



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

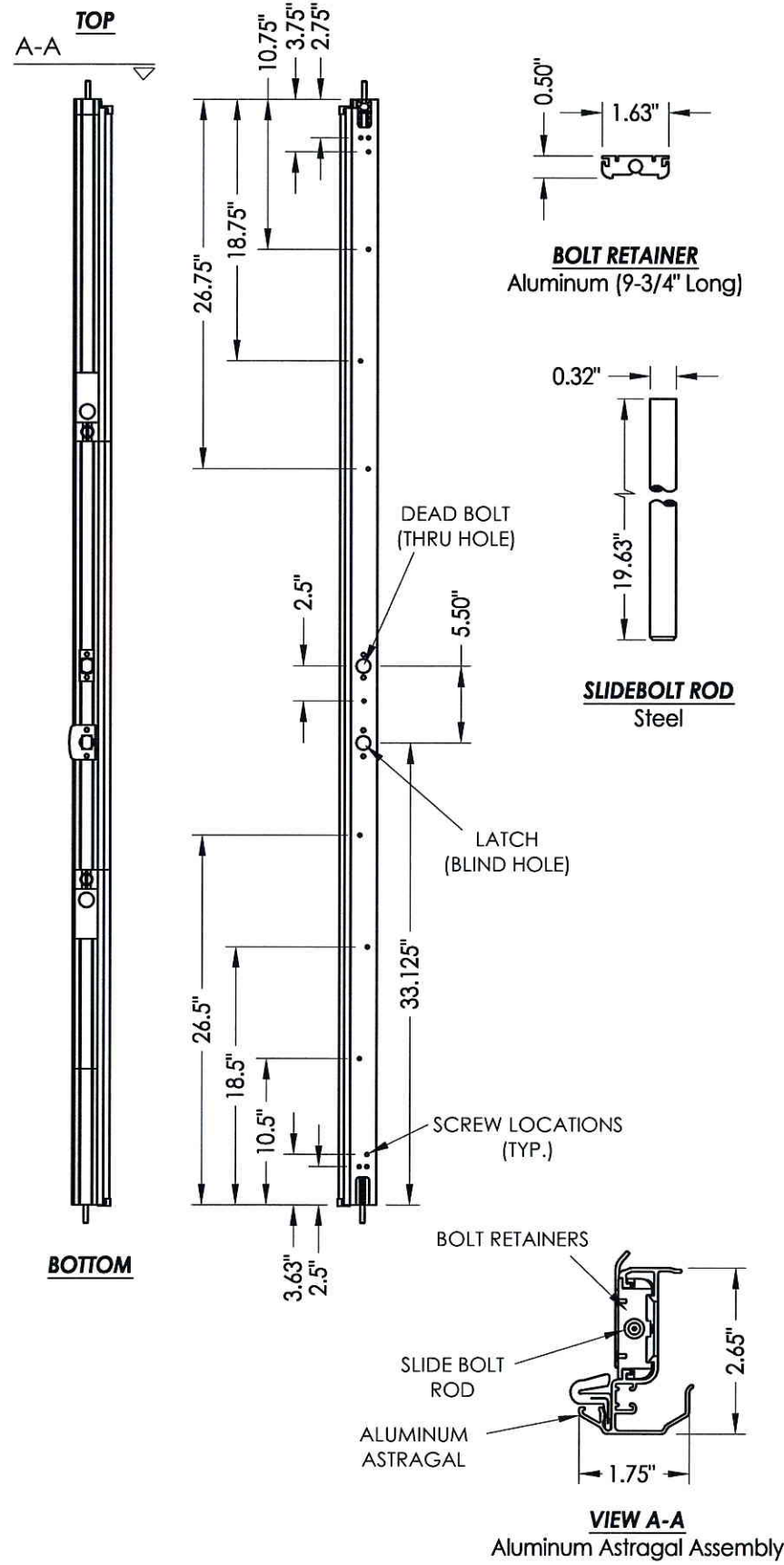
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P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	TRINITY GLASS INT'L
PART OR ASSEMBLY:	COMPONENTS

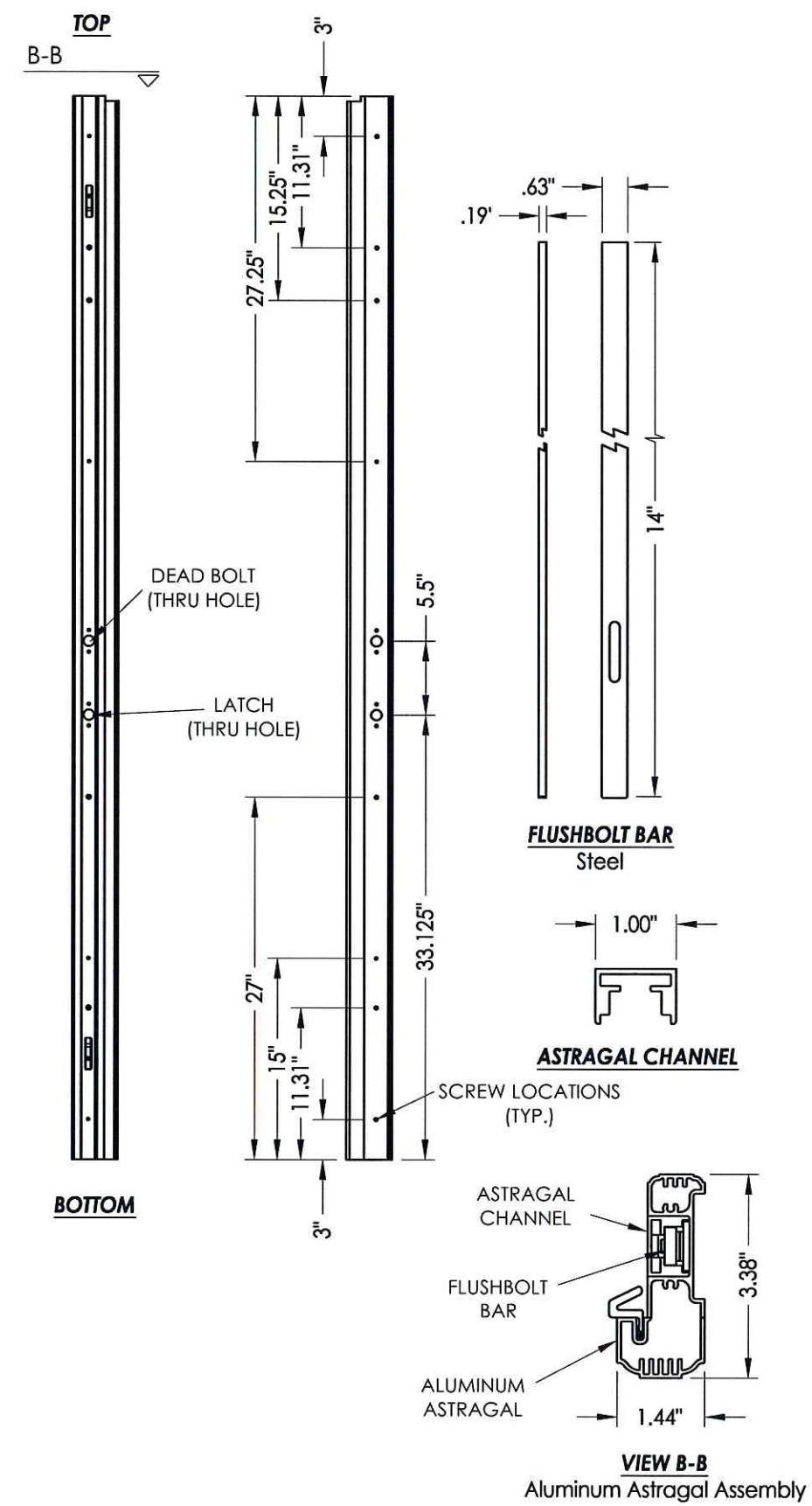
NO.	DATE	BY	REVISIONS

DATE:	5/10/12
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4153
SHEET	10 OF 12

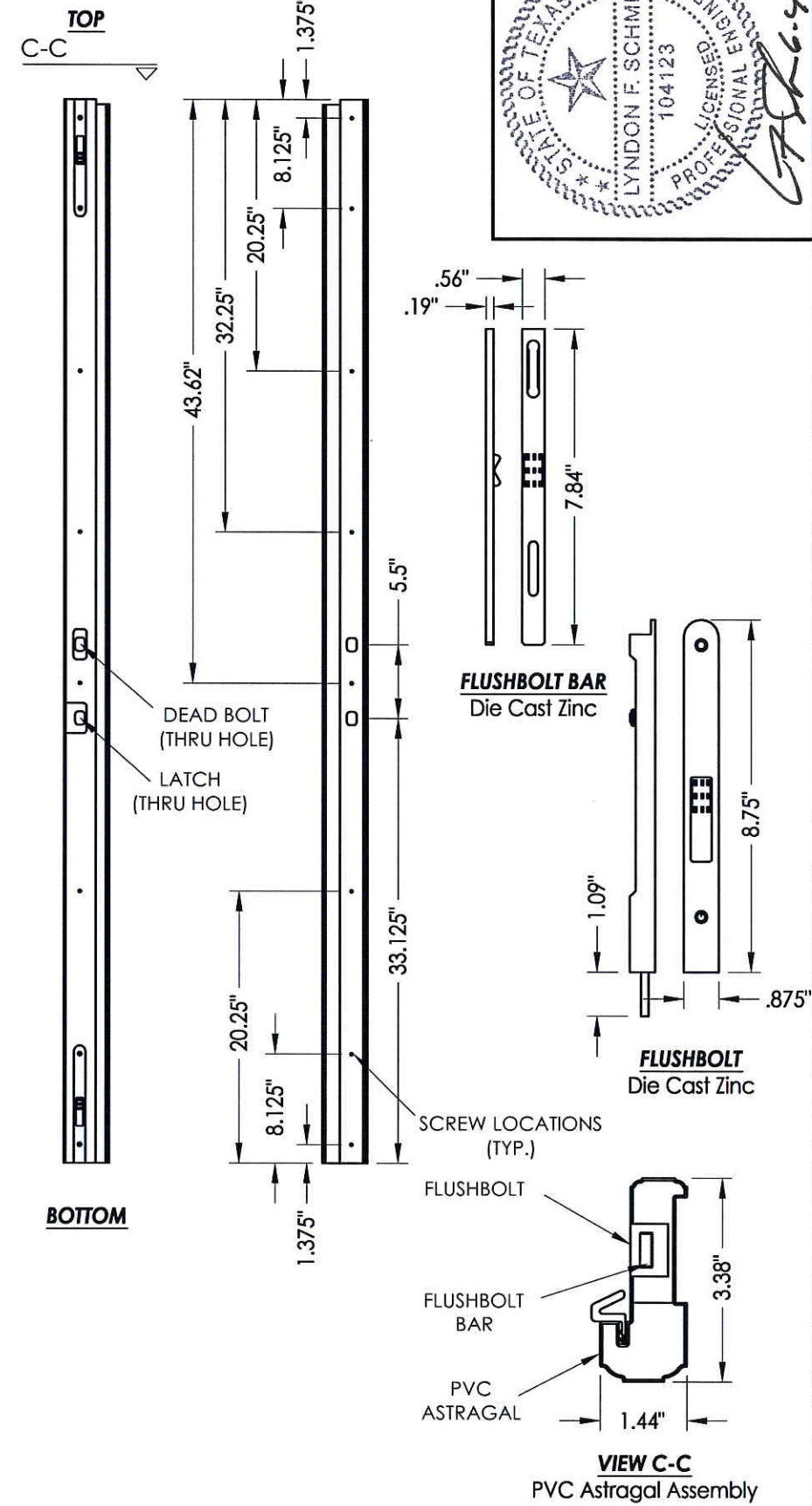
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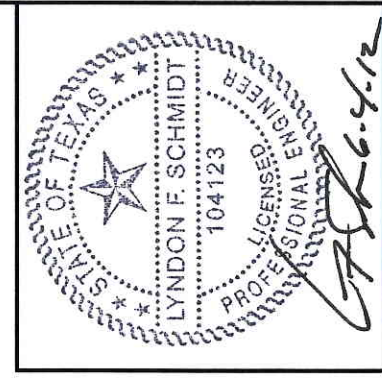
ENDURA ASTRAGAL
6'8 Aluminum Astragal by Endura Products



TRC ASTRAGAL
6'8 Aluminum Astragal by Trinity



PVC ASTRAGAL
6'8 PVC Astragal by Trinity



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

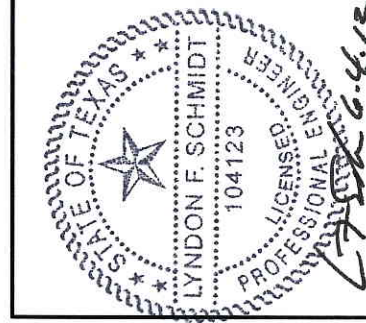
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

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

PRODUCT: TRINITY GLASS INT'L		PART OR ASSEMBLY: ASTRAGAL DETAILS	
NO.	DATE	BY	REVISIONS
DATE: 5/10/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4153			
SHEET 11 OF 12			

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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (G >= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
J	#9 X 2-1/4" PFH WS	STEEL
L	#8 X 2-1/2" PFH WS	STEEL
P	#10 X 3" PFH WS	STEEL
Q	3/16" X 2-3/4" PFH ITW CONCRETE SCREW	STEEL
1	JAMB (FINGER-JOINT PINE: G >= 0.42)	WOOD
2	JAMB	FIBERGLASS/COMP
3	JAMB	PVC
5	INSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUMINUM
6	DOOR BOTTOM SWEEP	PVC
8	#6 X 1-1/4" PFH DRYWALL SCREW	STEEL
12	WEATHER STRIP QEBD650 Q-LON	-
18	4" X 4" HINGE	STEEL
19	SILLKEY	PC/ASA
22	DEADBOLT STRIKE PLATE	STEEL
23	STRIKE PLATE	STEEL
24	#9 X 5/8" PFH WS	STEEL
25	OUTSWING HIGH-DAM THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.
26	#9 X 1" PFH WS	STEEL
27	OUTSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
53	#8 X 1-3/4" PFH SMS	STEEL
54	ASTRAGAL STRIKE @ HEAD	STEEL
56	ASTRAGAL STRIKE @ SILL	STEEL
60	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
62	QUARTER ROUND	WOOD
63	#8 X 2-1/4" PFH WOOD SCREW	STEEL
64	#8 X 2" PFH WOOD SCREW	STEEL
65	#10 X 2" PFH WOOD SCREW	STEEL
66	SIDELITE SPACER	PVC
68	1X MULLION (G >= 0.42)	WOOD



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TEXAS P.E. #104123

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

PRODUCT: TRINITY GLASS INT'L

PART OR ASSEMBLY: BILL OF MATERIALS

NO.	DATE	BY	REVISIONS

DATE: 5/10/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4153

SHEET 12 OF 12