



TRINITY GLASS
INTERNATIONAL

33615 1st Way S, Federal Way, WA 98003

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

EVALUATED FOR USE IN THE STATE OF TEXAS

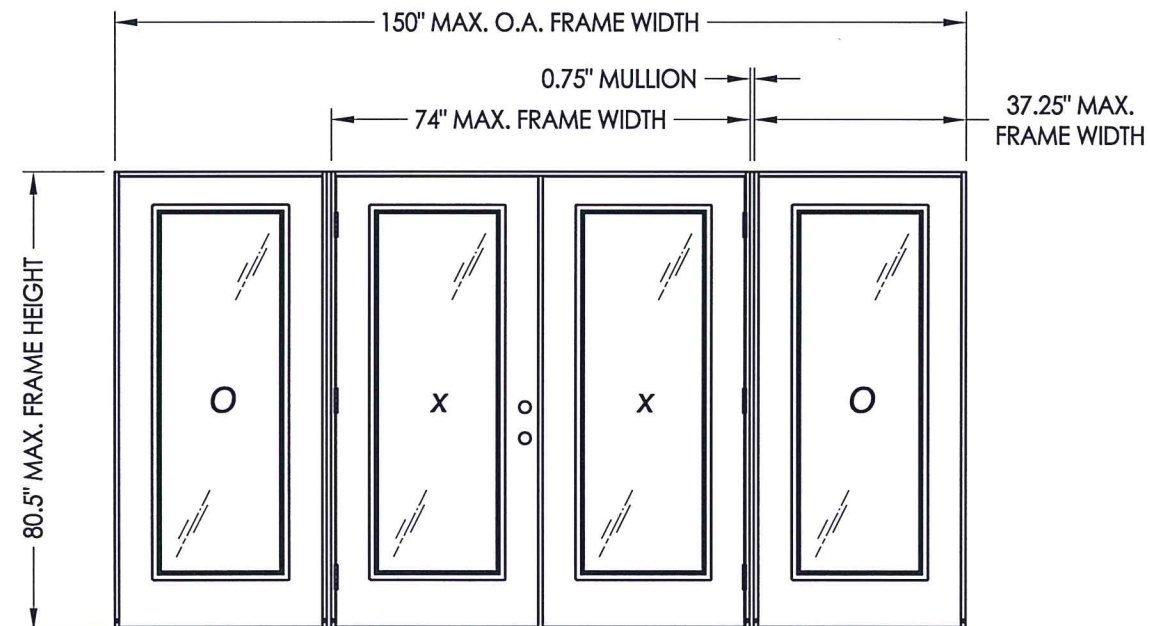
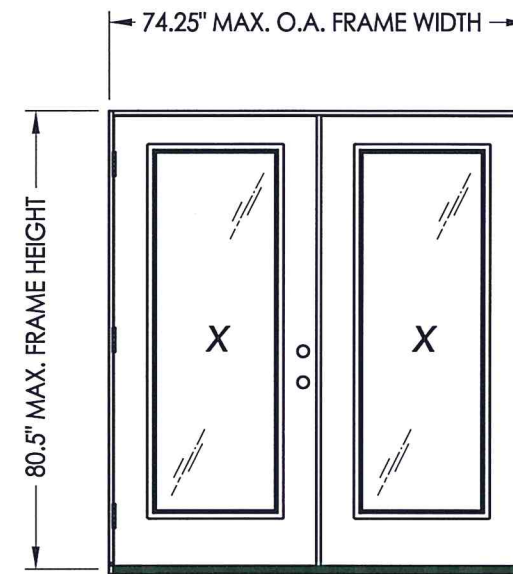
DR-273

The Fiberglass 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:

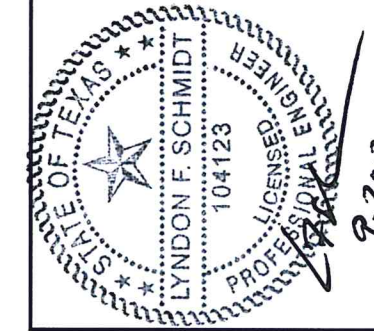
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. This system has been tested and evaluated as a large missile impact protective system for installation in areas requiring wind-borne debris protection. This 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 (Rectangular Lite)
3	Door panel details (Oval Lite)
4	Sidelite panel details and glazing details
5	Elevations
6	Horizontal cross sections
7	Vertical cross sections
8	Vertical cross sections
9	Frame anchoring (XX)
10	Frame anchoring (OXXO)
11	Components
12	Bill of materials



CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
XX	74.25" x 80.5"	+ 50.0	- 50.0
OXXO	150.0" x 80.5"	+ 50.0	- 50.0



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

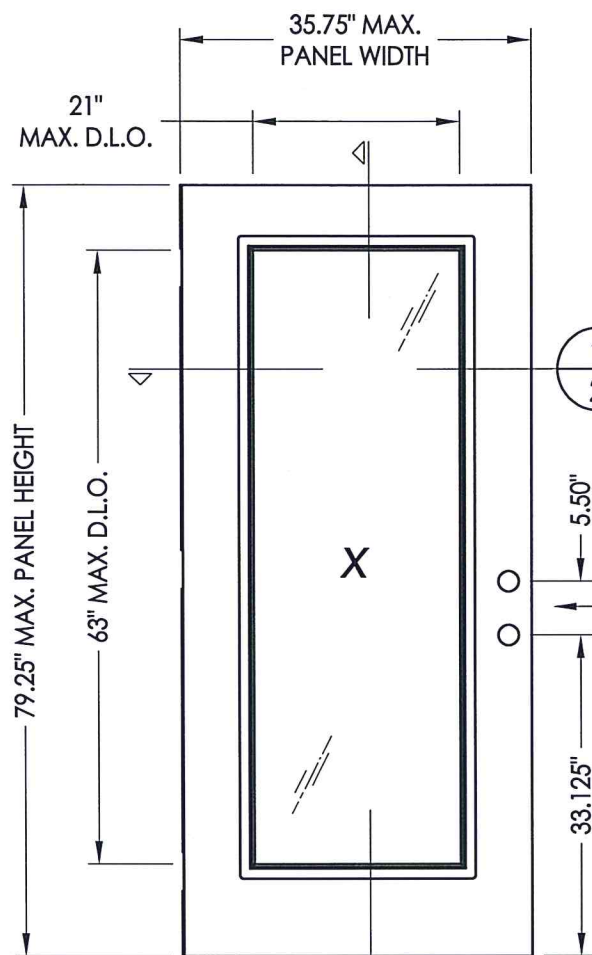
PRODUCT: TRINITY GLASS INT'L

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

NO.	DATE	REVISIONS
1	8/10/21	UPDATE TO 2018 IBC/IRC

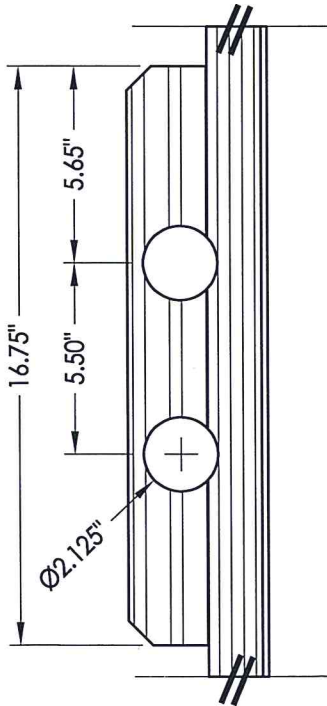
DATE: 5/10/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4157
SHEET 1 OF 12

Z:\Clients\Trinity Glass Permanent\B - Texas Dept of Ins\DR-273 ID 9829\Drawings\TX-4154-57.dwg



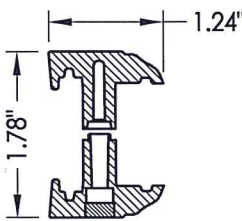
2
2

40 DOOR PANEL
Full lite

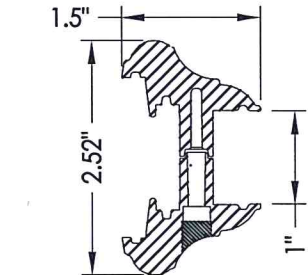


DETAIL 1

A3 FLUSH GLAZED FRAME
ABS or PC/ASA

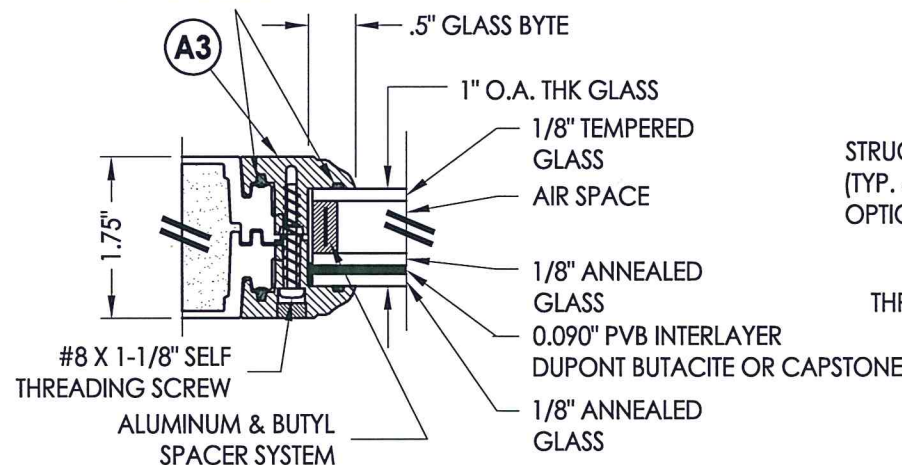


B3 MAHOGANY LITE FRAME
ABS or PC/ASA



B3 MAHOGANY LITE FRAME
ABS or PC/ASA

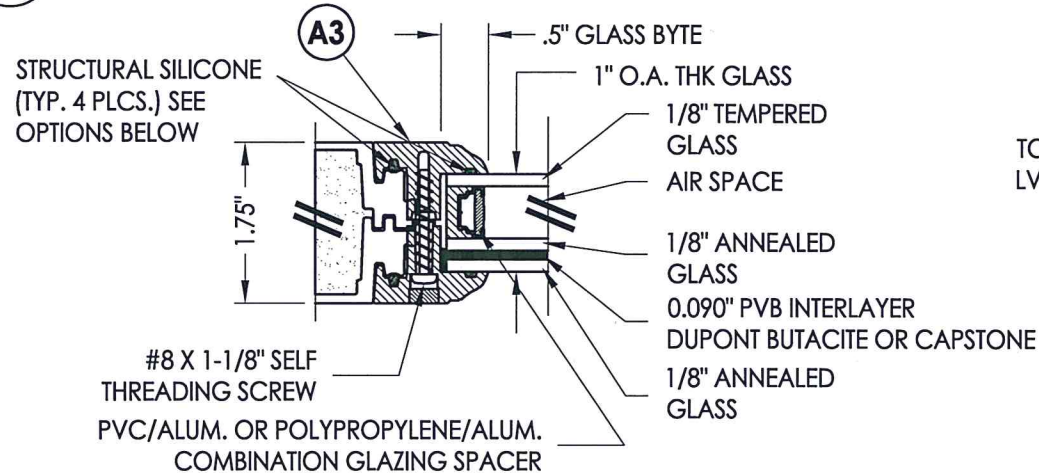
STRUCTURAL SILICONE
(TYP. 4 PLCS.) SEE
OPTIONS BELOW



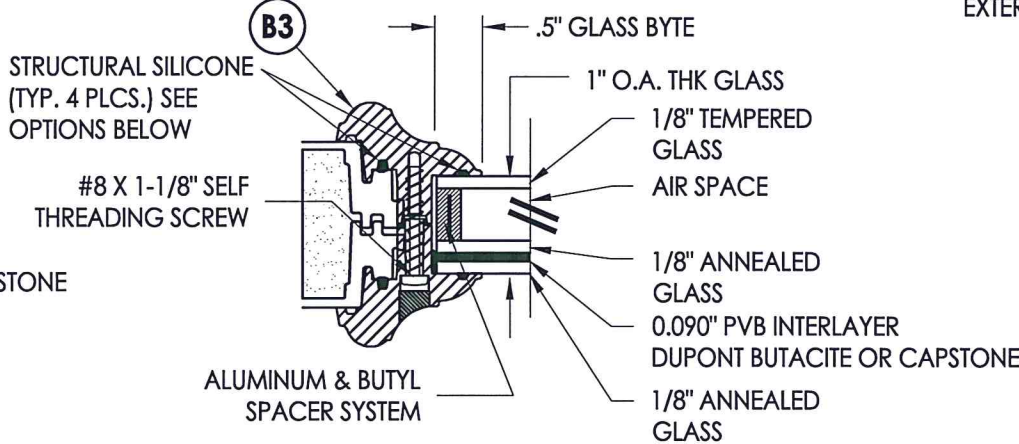
DETAIL 2

G1 GLAZING DETAIL

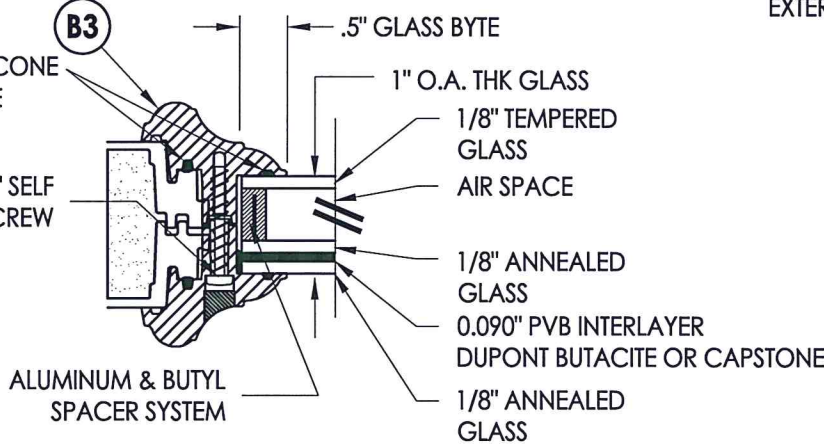
1
2 HORIZONTAL CROSS SECTION



G2 GLAZING DETAIL



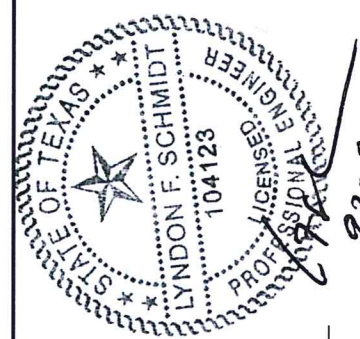
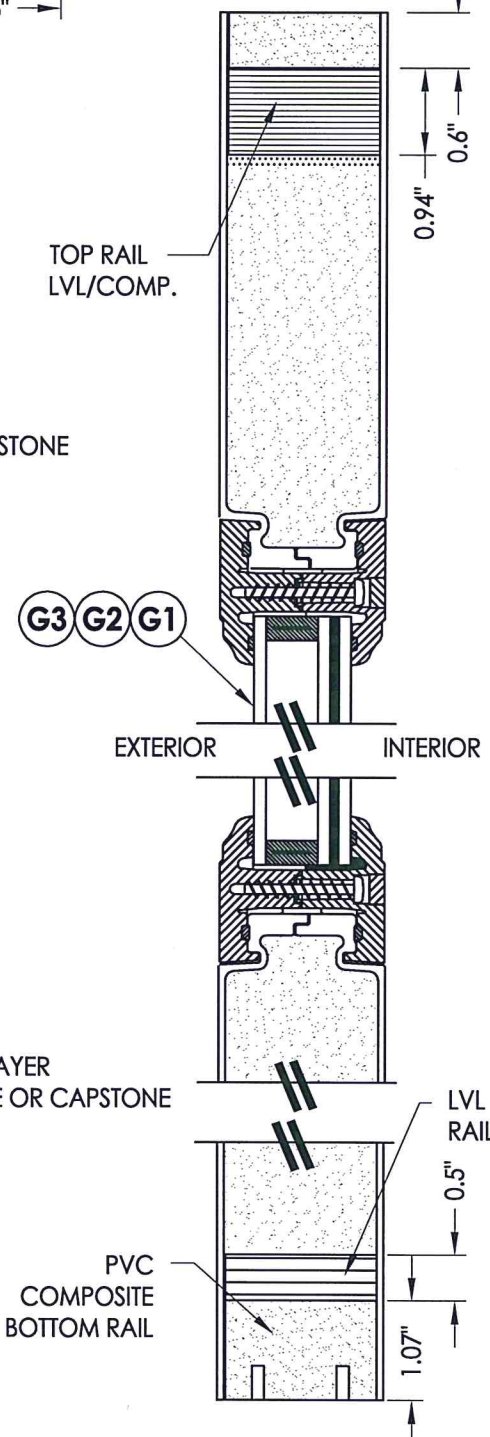
G3 GLAZING DETAIL



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

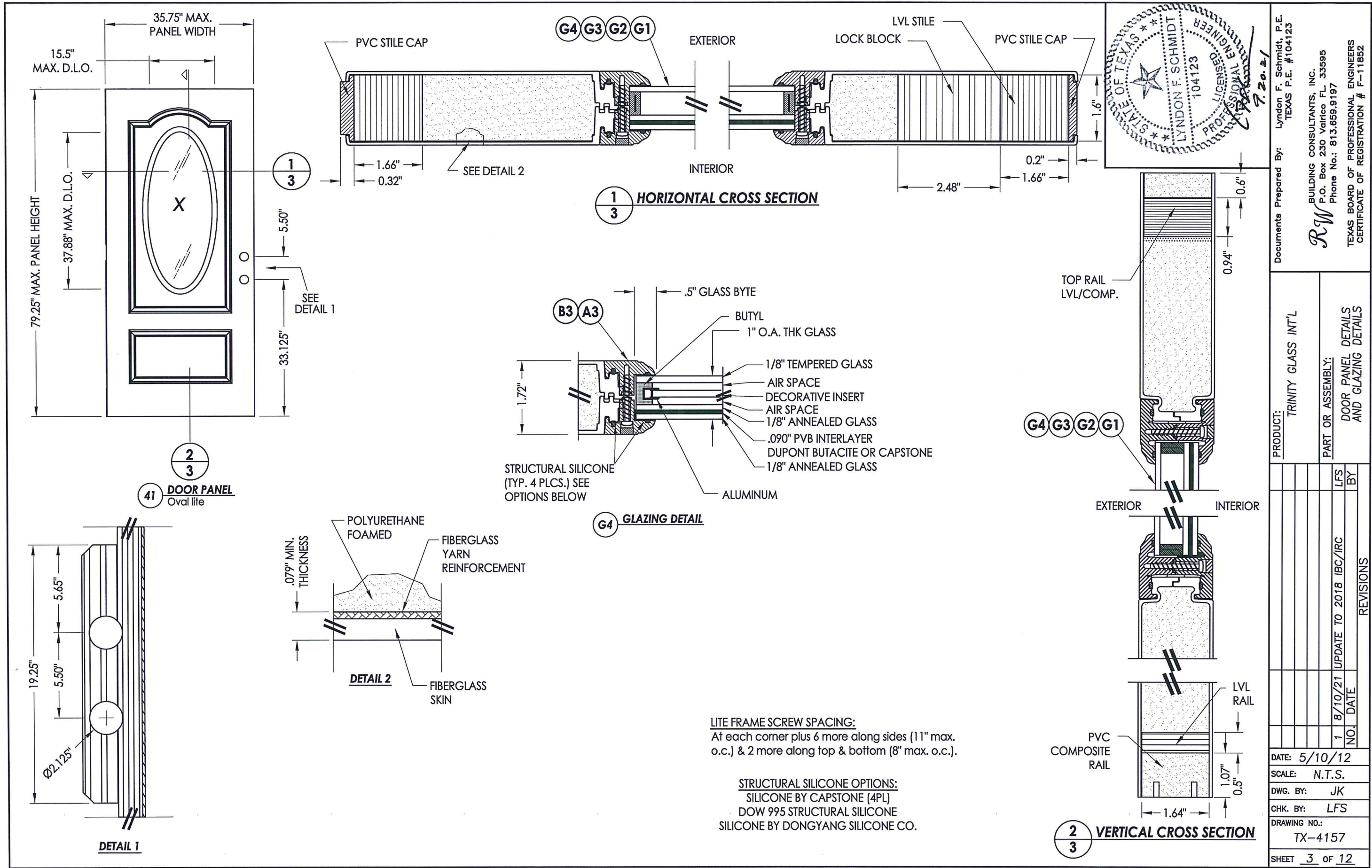
STRUCTURAL SILICONE OPTIONS:
SILICONE BY CAPSTONE (4PL)
DOW 995 STRUCTURAL SILICONE
SILICONE BY DONGYANG SILICONE CO.

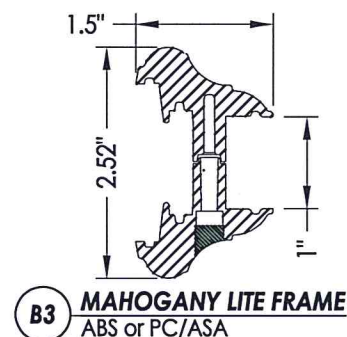
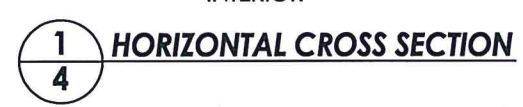
2
2 VERTICAL CROSS SECTION



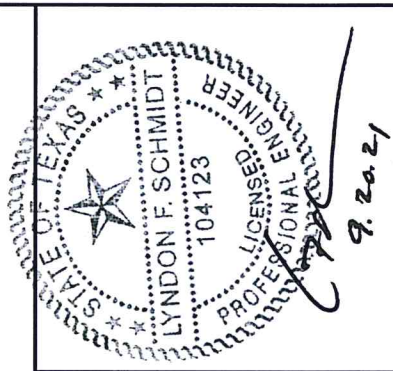
Documents Prepared By: Lyndon F. Schmidt, P.E. TEXAS P.E. #104123		BUILDING CONSULTANTS, INC. P.O. Box 230 Valrico FL 33595 Phone No.: 813.659.9197	
PRODUCT: TRINITY GLASS INT'L		PART OR ASSEMBLY: DOOR PANEL DETAILS	
		LFS BY	
		1 8/10/21 UPDATE TO 2018 IBC/IRC	
		NO. DATE	
DATE: 5/10/12		REVISIONS	
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4157			
SHEET 2 OF 12			

Z:\Clients\Trinity Glass PERMANENT\B - Texas Dept of Ins\DR-273 ID 9829\Drawings\TX-4154-57.dwg

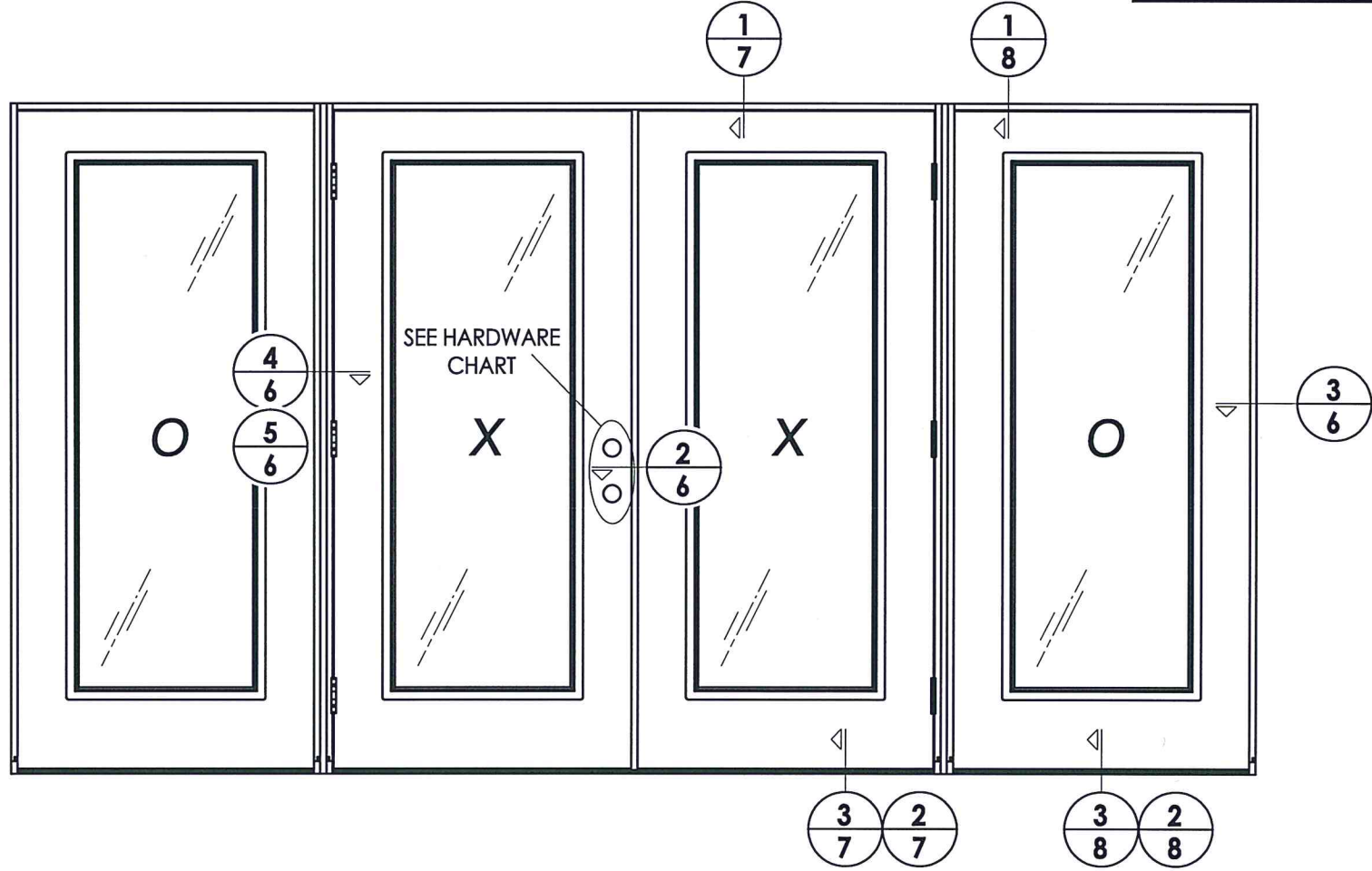
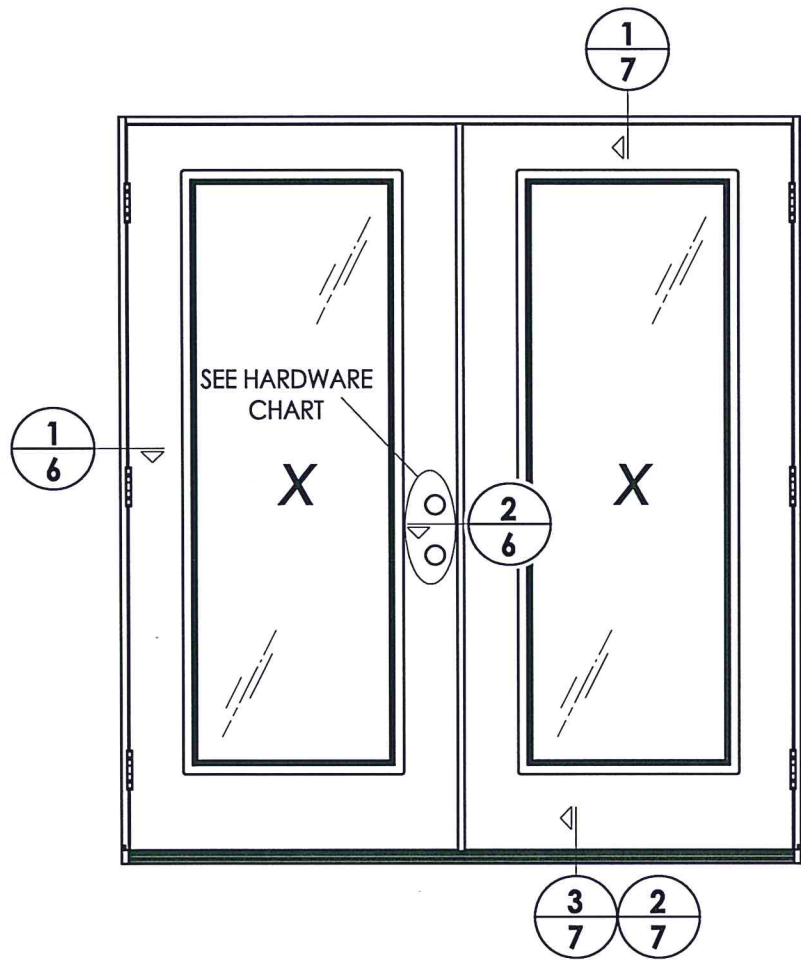




LITE FRAME SCREW SPACING:
At each corner plus 6 more along sides (11" max. o.c.) & 2 more along top & bottom (8" max. o.c.).



SHEET 4 OF 12



HARDWARE CHART	
MANUFACTURER	MODEL
KWIKSET	KNOB: KWIKSET SERIES (660) DEADBOLT: KWIKSET SERIES (660)
KWIKSET	KNOB: SIGNATURE SERIES (740) DEADBOLT: SIGNATURE SERIES (780)
KWIKSET	KNOB: SIGNATURE SERIES (740) DEADBOLT: SIGNATURE SERIES (980)

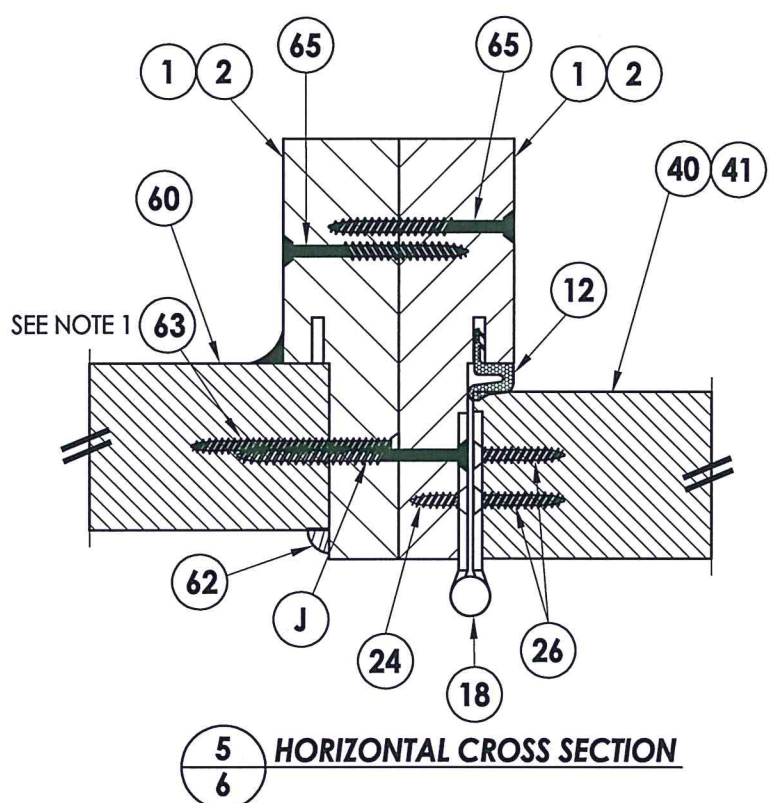
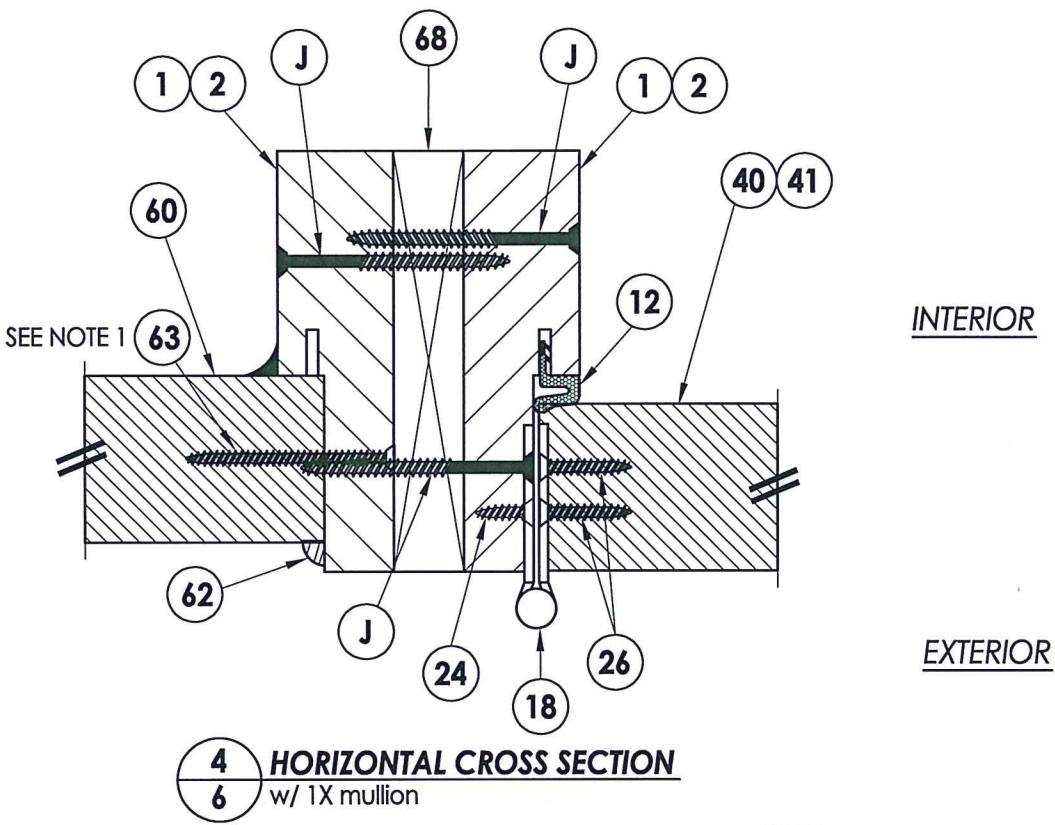


PRODUCT: TRINITY GLASS INT'L	
PART OR ASSEMBLY: ELEVATIONS	
NO.	DATE
1	8/10/21
UPDATE TO 2018 IBC/IRC	
LFS	BY
REVISIONS	
DATE: 5/10/12	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: TX-4157	
SHEET 5 OF 12	

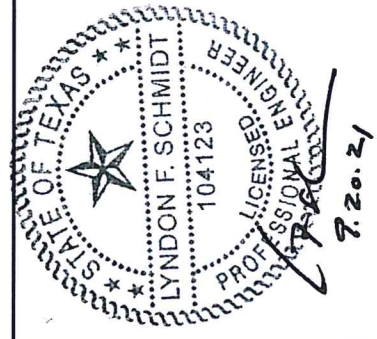
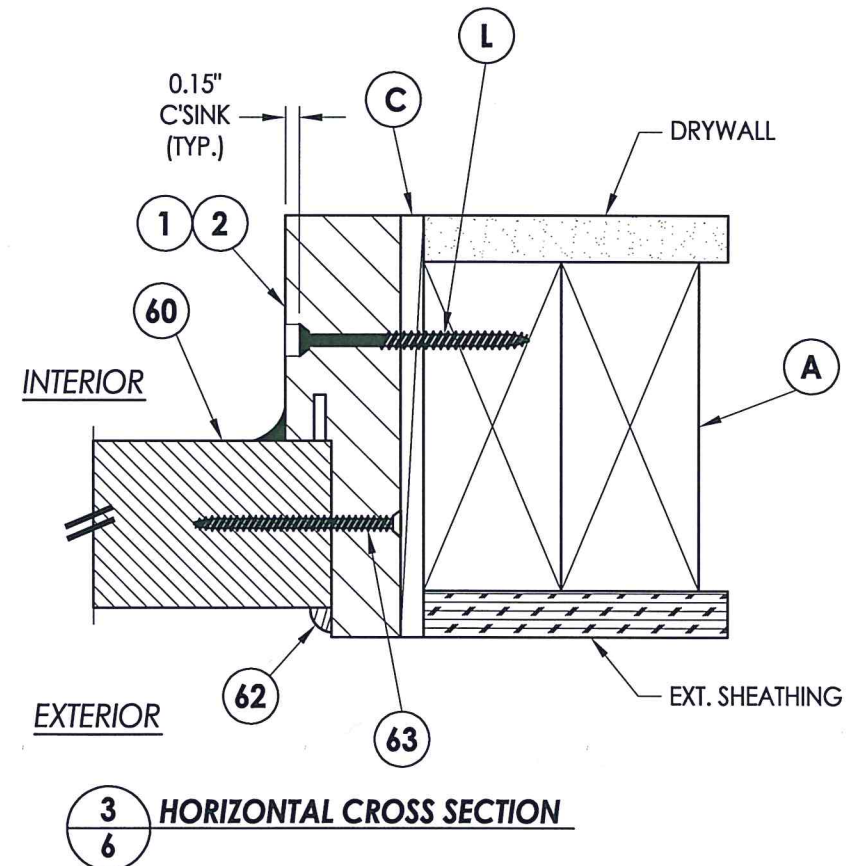
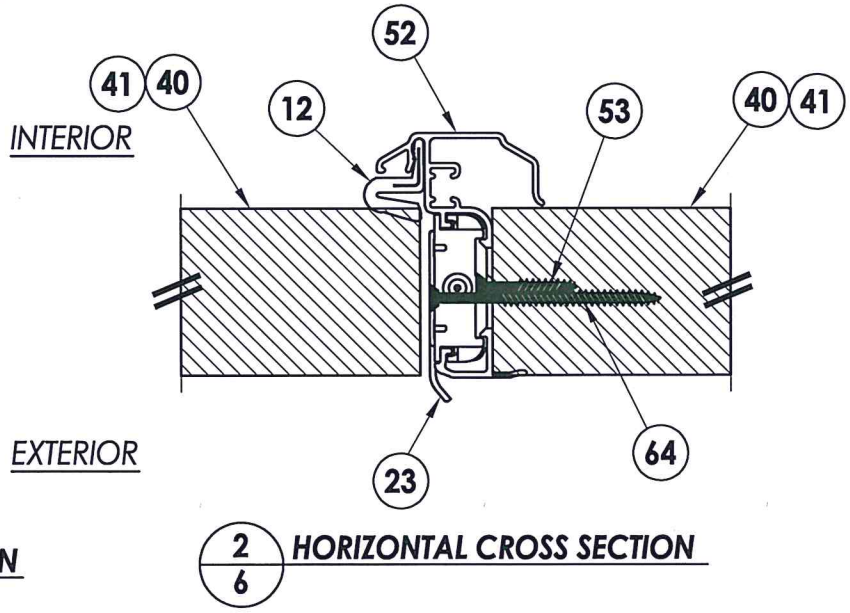
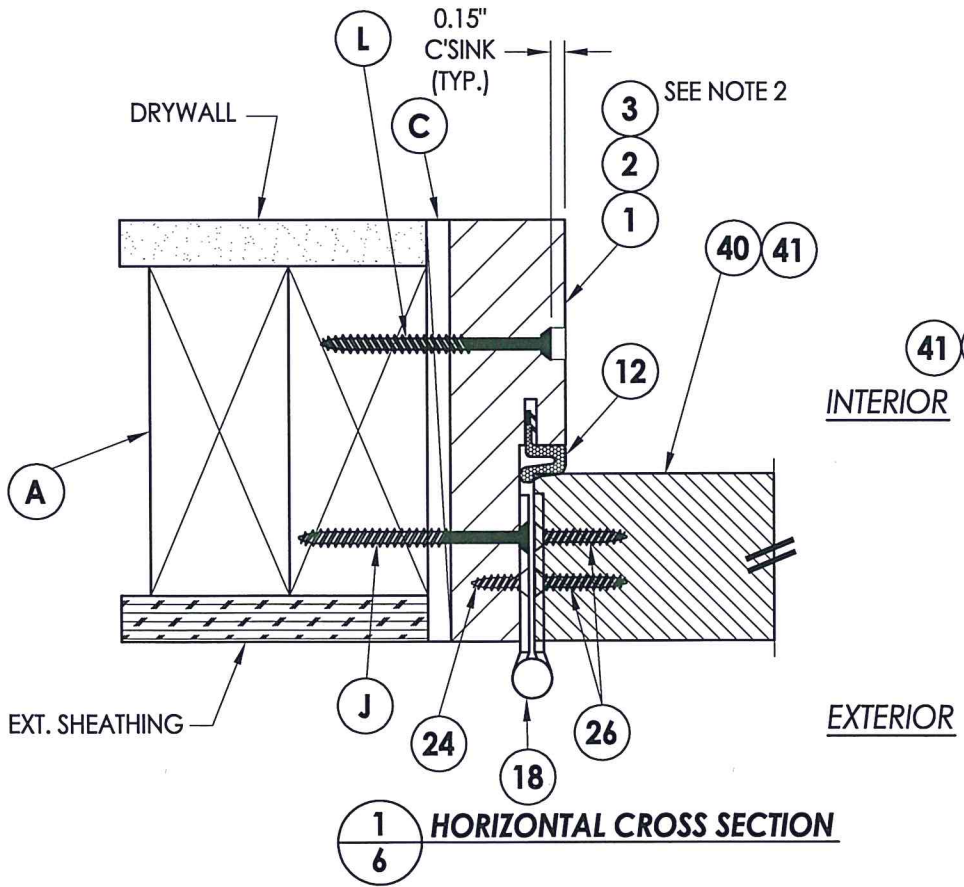
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

Z:\Clients\Trinity Glass PERMANENT\B - Texas Dept of Ins\DR-273 ID 9829\Drawings\TX-4154-57.dwg



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

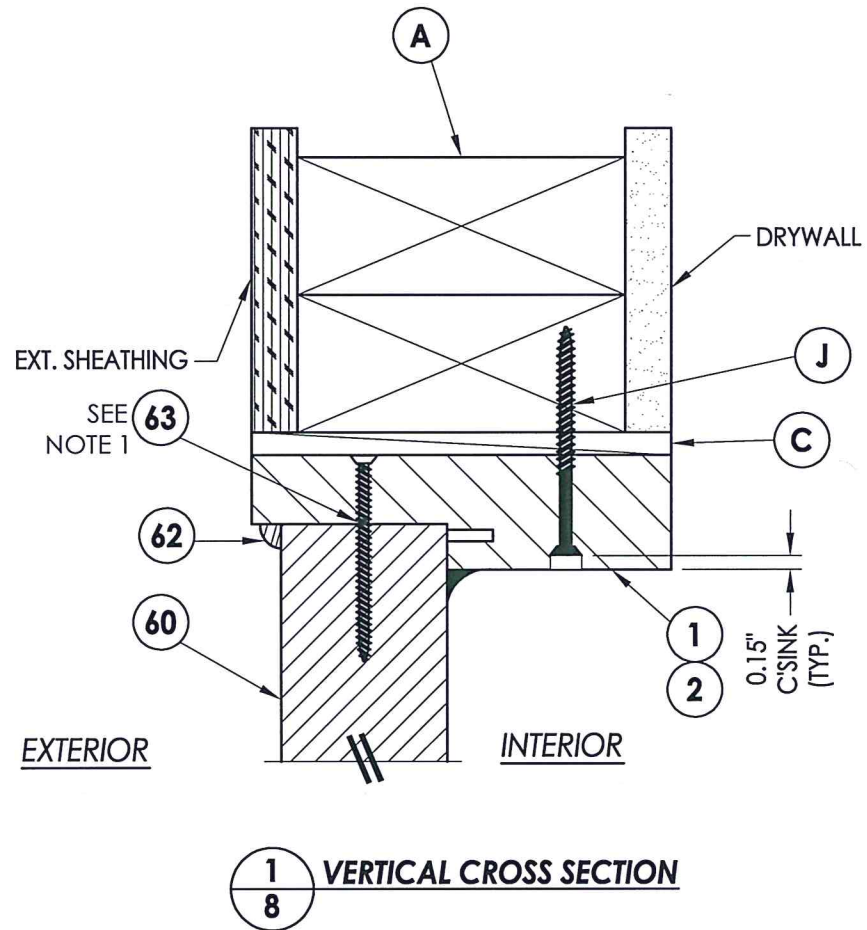
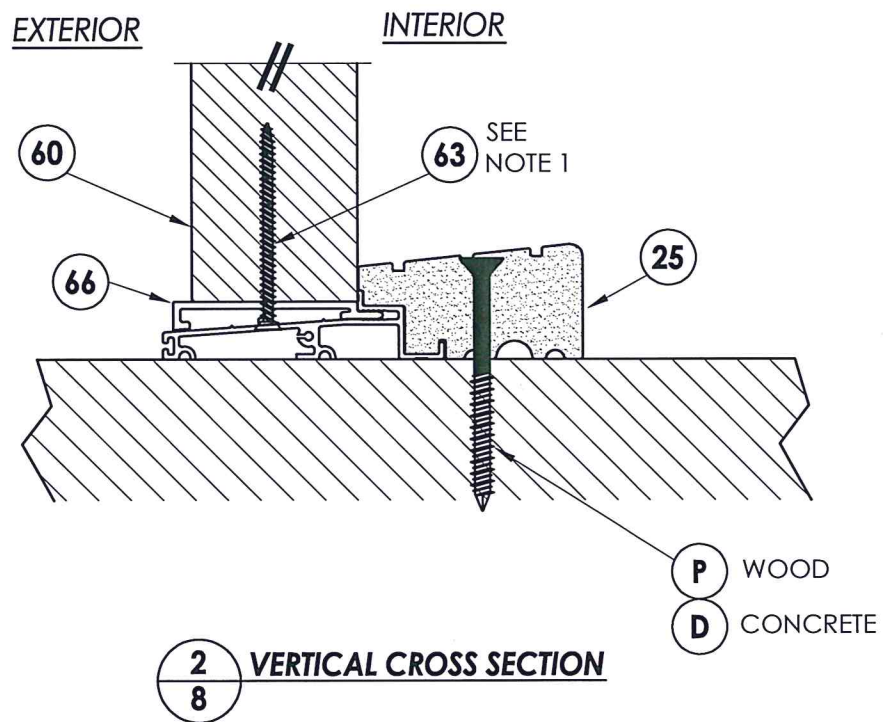


Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

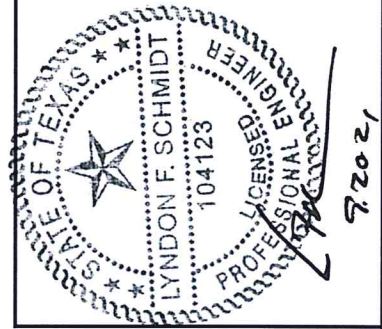
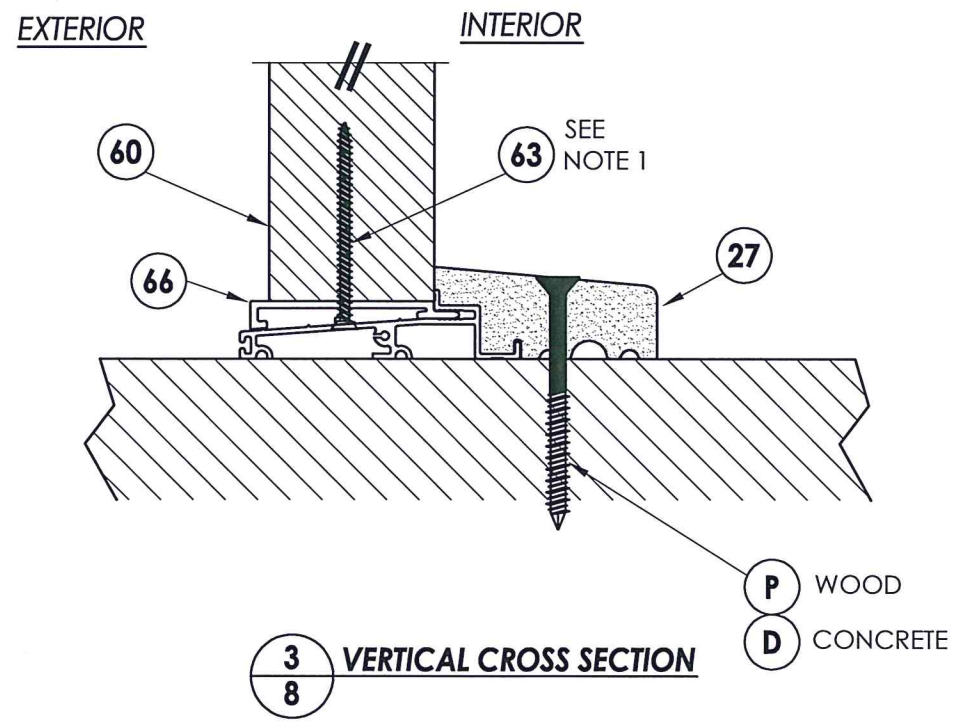
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

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

PRODUCT:		TRINITY GLASS INT'L	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS	
DATE:		5/10/12	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		TX-4157	
SHEET		6 OF 12	
REVISONS			
NO.		DATE	
1		8/10/21	
LFS		BY	
BY		BY	



- NOTE:
1. Screws thru head and sill jamb located 3" from each end and O.C. (TYP.) line.



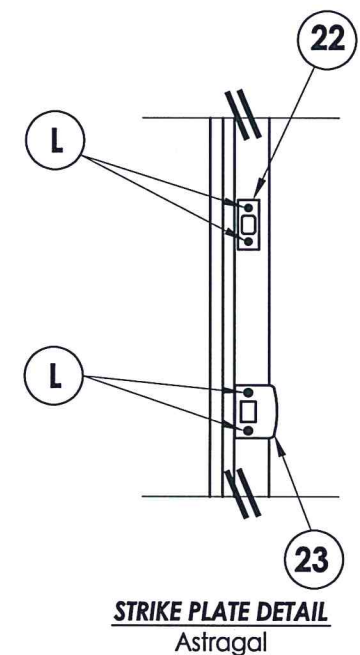
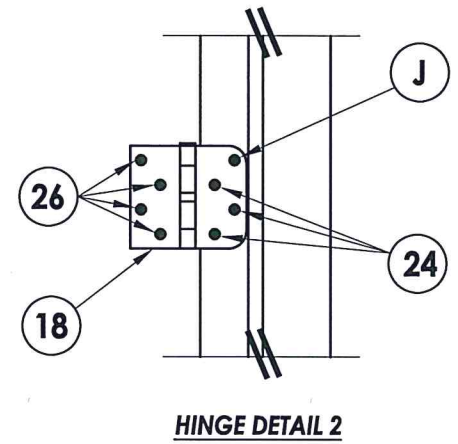
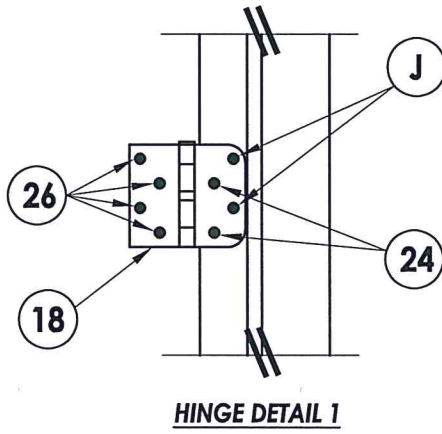
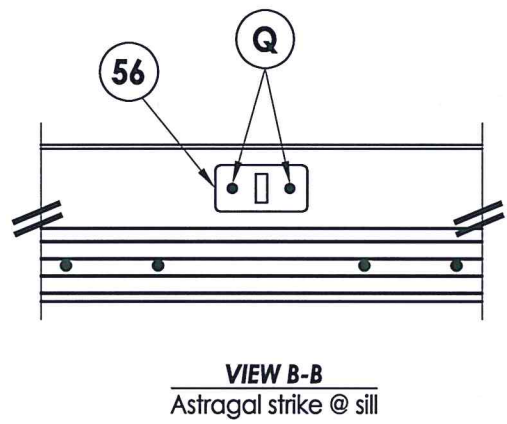
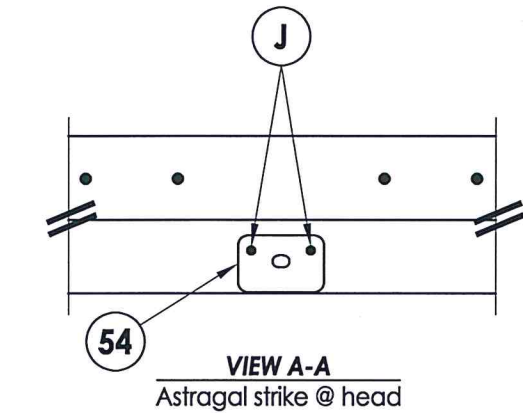
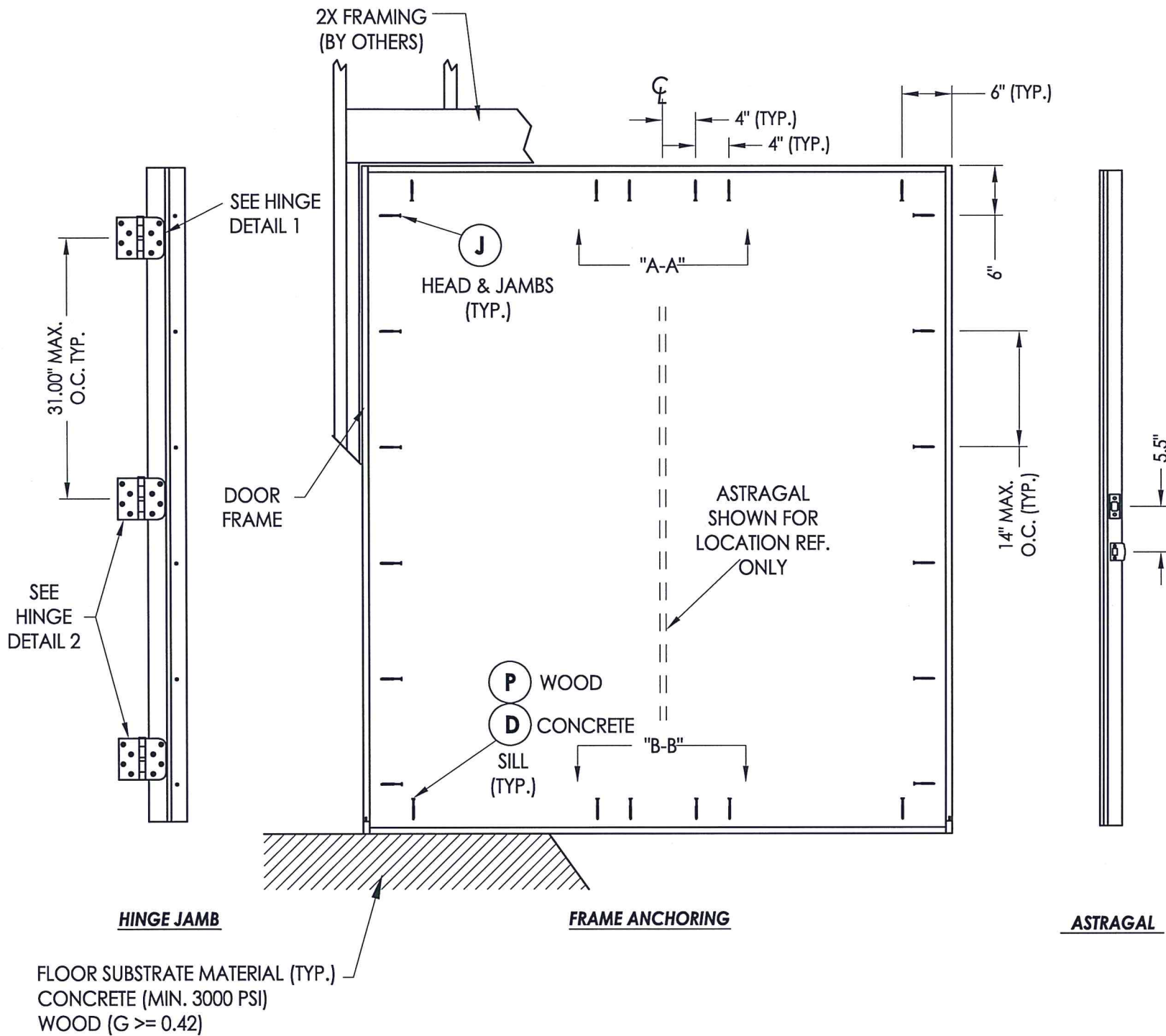
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

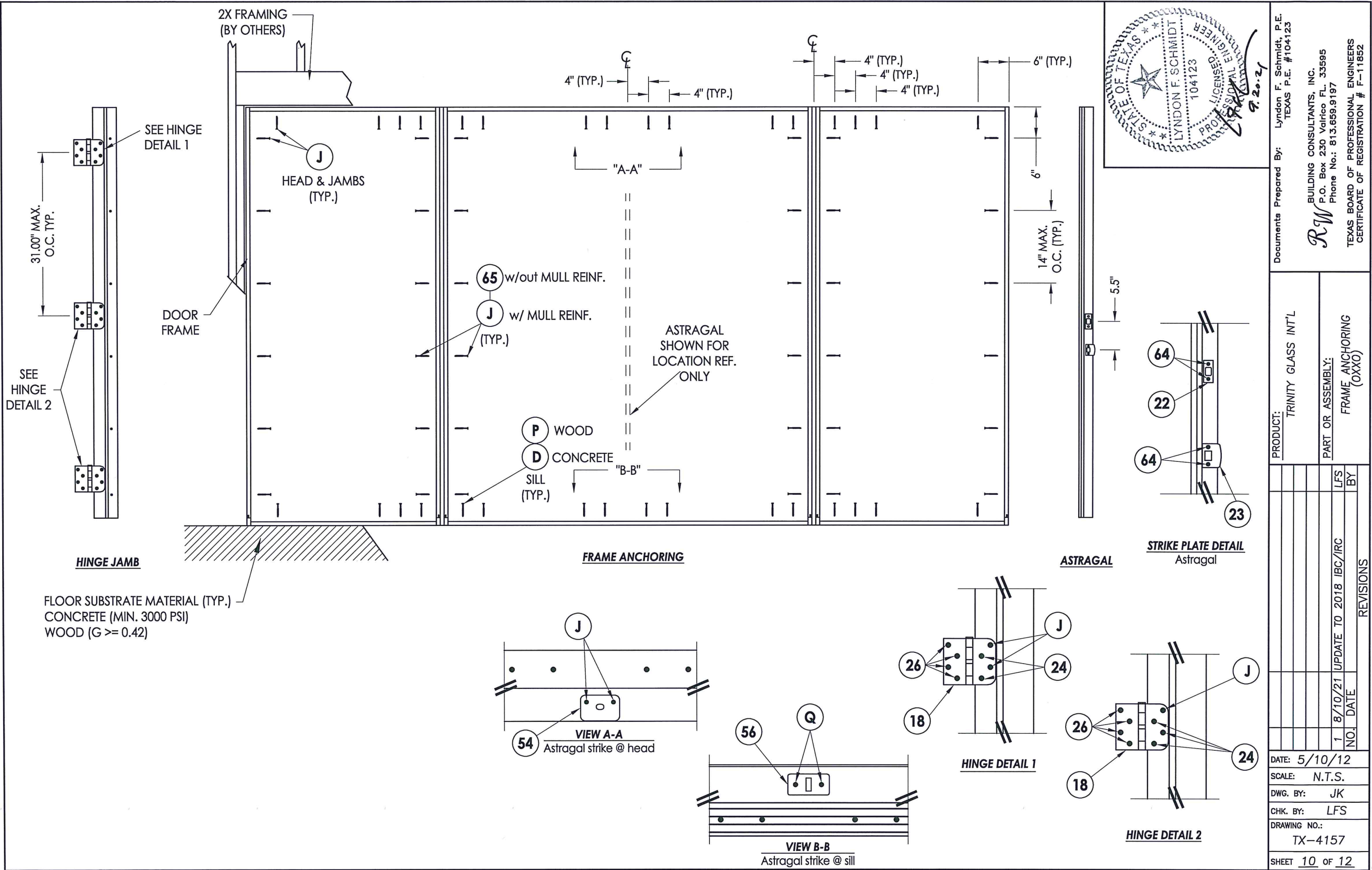
PRODUCT: TRINITY GLASS INT'L				PART OR ASSEMBLY: VERTICAL CROSS SECTIONS			
						LFS	BY
						</	

Z:\Clients\Trinity Glass Permanent\B - Texas Dept of Ins\DR-273 ID 9829\Drawings\TX-4154-57.dwg

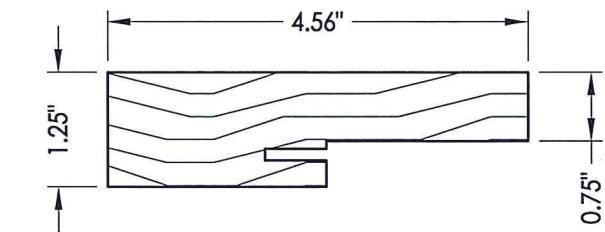


Documents Prepared By: Lyndon F. Schmidt, P.E. TEXAS P.E. #104123		R.W. BUILDING CONSULTANTS, INC. P.O. Box 230 Valrico FL 33595 Phone No.: 813.659.9197	
PRODUCT: TRINITY GLASS INT'L		PART OR ASSEMBLY: FRAME ANCHORING (XX)	
		LFS BY	
		1 8/10/21 UPDATE TO 2018 IBC/IRC	
		NO. DATE	
		REVISIONS	
DATE: 5/10/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4157			
SHEET 9 OF 12			

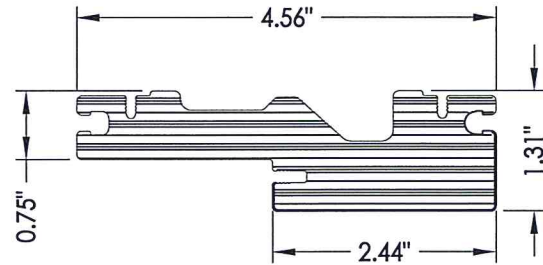
Z:\Clients\Trinity Glass PERMANENT\B - Texas Dept of Ins\DR-273 ID 9829\Drawings\TX-4154-57.dwg



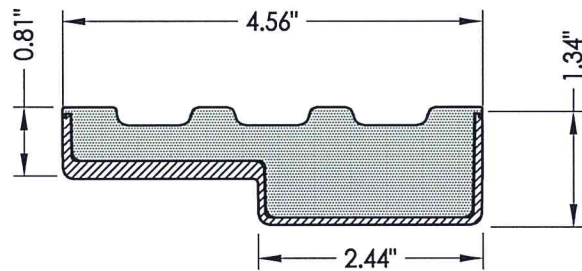
Z:\Clients\Trinity Glass PERMANENT\B - Texas Dept of Ins\DR-273 ID 9829\Drawings\TX-4154-57.dwg



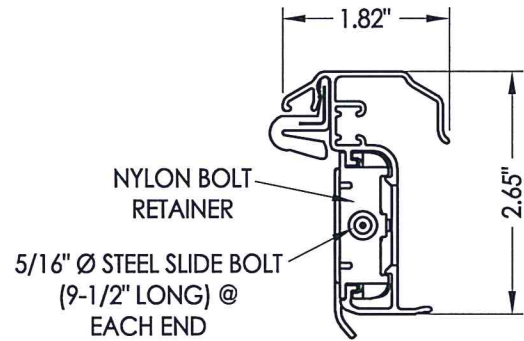
1 HEAD & JAMBS
Wood



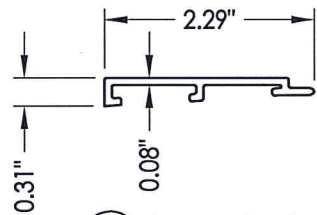
3 HEAD & JAMBS
PVC



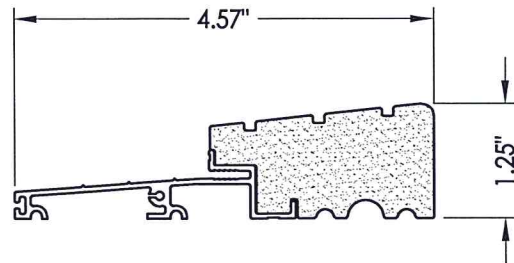
2 HEAD & JAMBS
Composite PVC Base
w/ Fiberglass Wrap



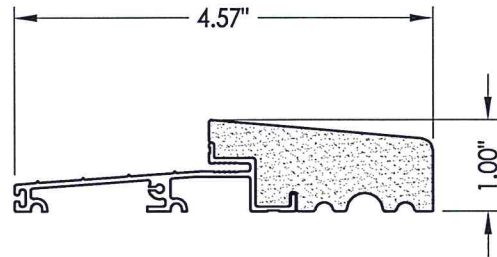
52 ULTIMATE HURRICANE ASTRAGAL
Endura Products



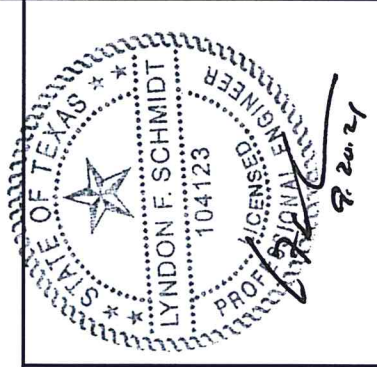
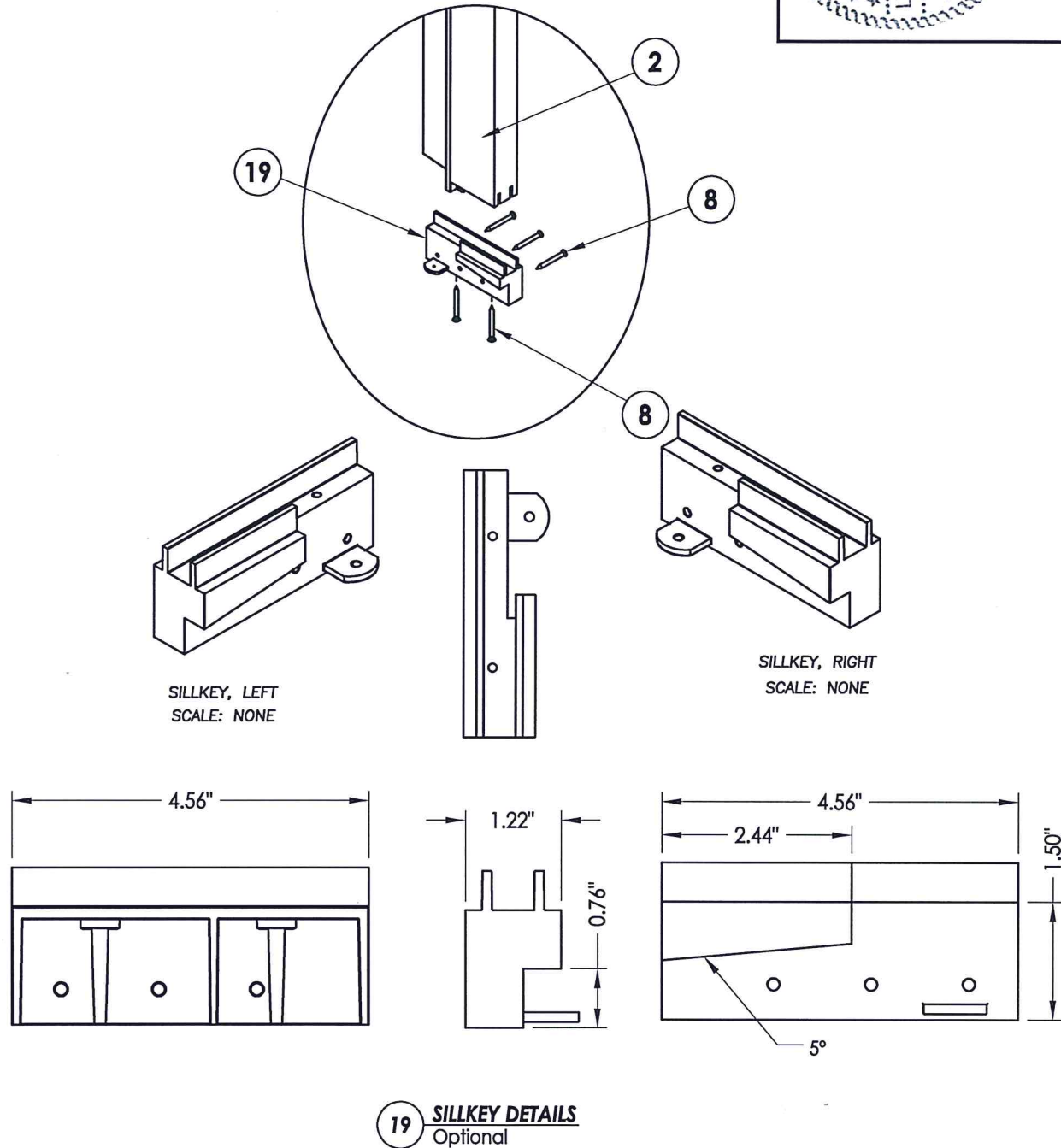
66 SIDELITE SPACER
Outswing



25 OUTSWING THRESHOLD
High-dam option



27 OUTSWING THRESHOLD



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: COMPONENTS

NO.	DATE	REVISIONS
1	8/10/21	UPDATE TO 2018 IBC/IRC

DATE: 5/10/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

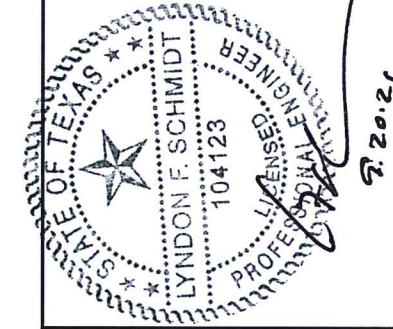
DRAWING NO.: TX-4157

SHEET 11 OF 12

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. O.C. (TYP.);" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. O.C. (TYP.);" 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®	3/16" 1/4"	1-3/4" 1-3/4"	3" 2"	1-1/2" 4"
DeWALT ULTRACON®	1/4"	1-3/4"	1"	4"

1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



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

[illegible]