

GLAZED FIBERGLASS SINGLE DOOR w/ SIDELITE(S)

OUTSWING
"IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

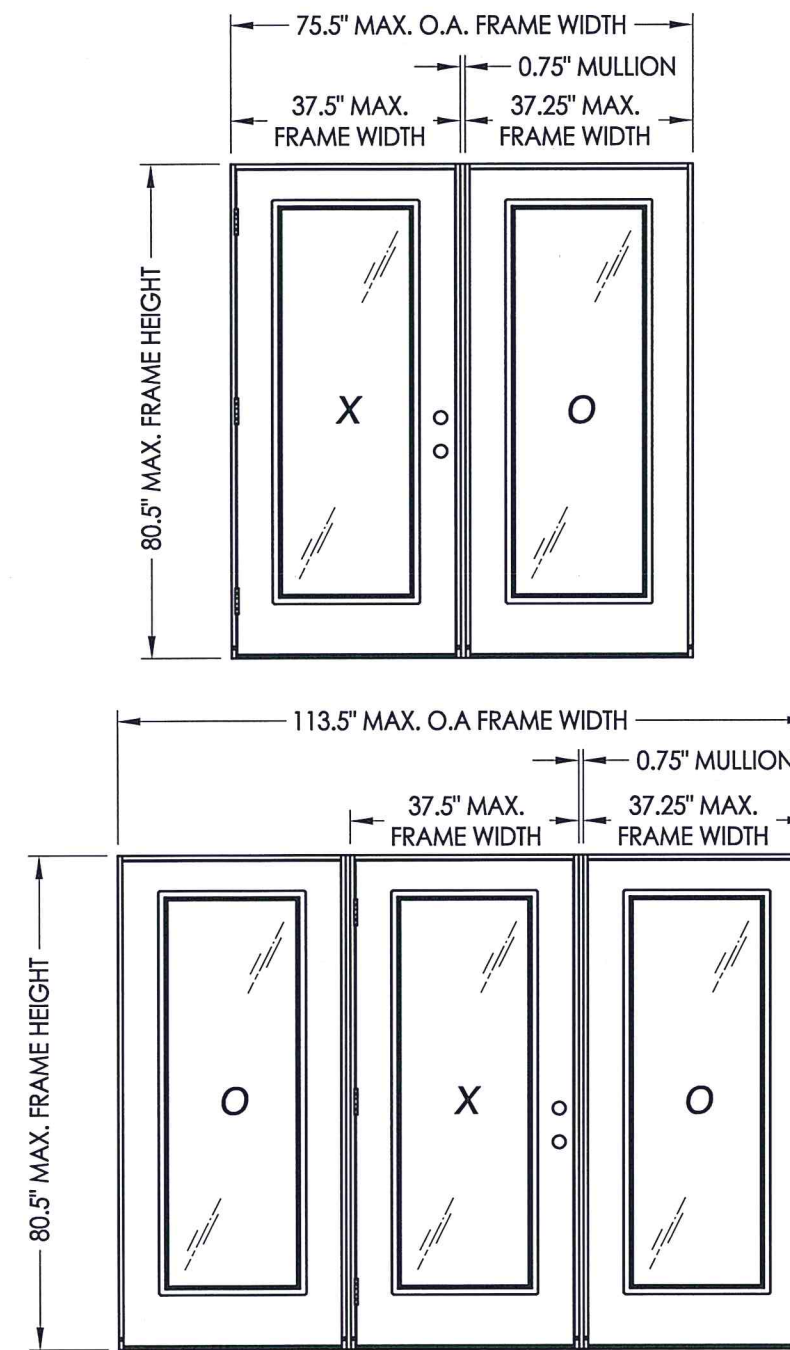
DR-273

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 and glazing details
3	Door panel details and glazing details
4	Sidelite panel details and glazing details
5	Elevations
6	Horizontal cross sections
7	Vertical cross sections
8	Vertical cross sections
9	Frame anchoring (OX/XO)
10	Frame anchoring (OXO)
11	Components
12	Bill of materials



CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
OX/XO	74.5" x 80.5"	+ 55.0	- 55.0
OXO	113.5" x 80.5"	+ 55.0	- 55.0



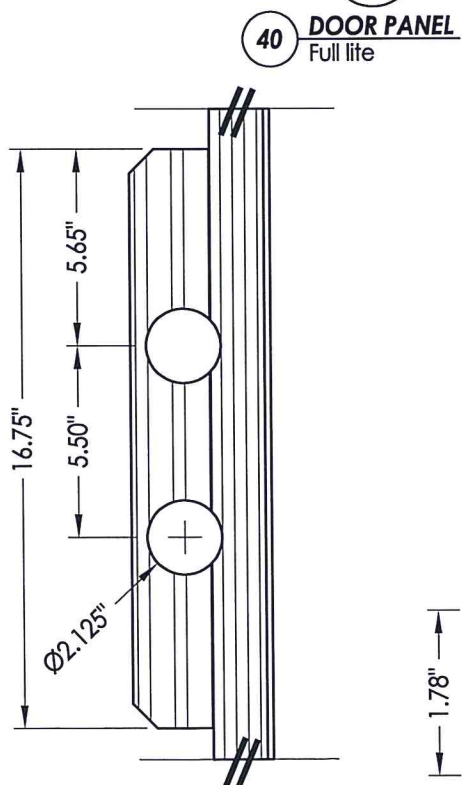
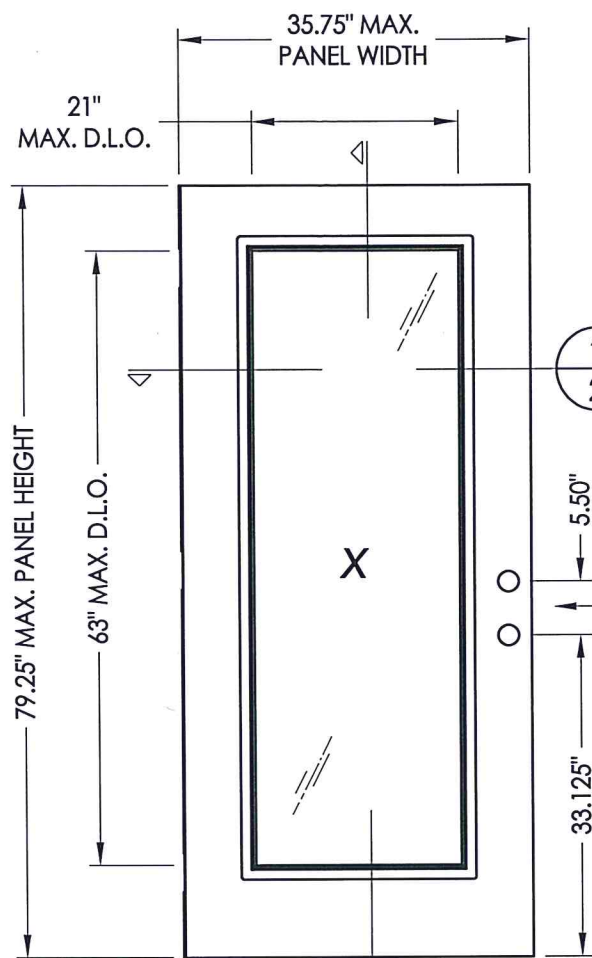
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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	
		LFS	BY
		UPDATE TO 2018 IBC/IRC	
1	8/10/21	NO. DATE	REVISIONS
DATE: 5/10/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4156			
SHEET 1 OF 12			

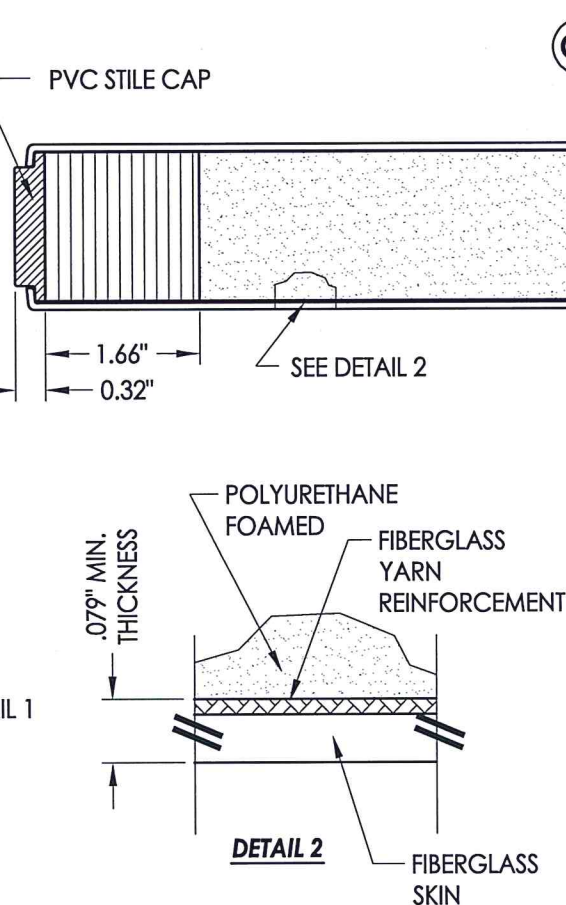
Z:\Clients\Trinity Glass PERMANENT\B - Texas Dept of Ins\DR-273\Drawings\TX-4154-57.dwg



DETAIL 1

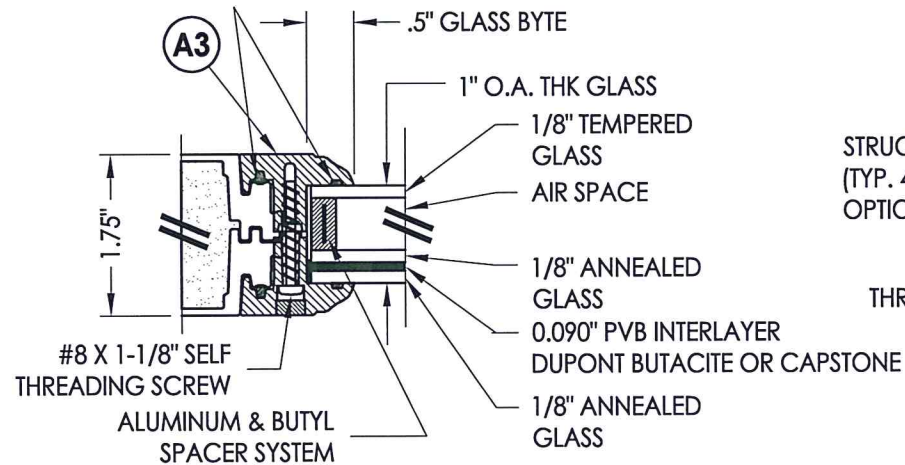
A3 FLUSH GLAZED FRAME
ABS or PC/ASA

B3 MAHOGANY LITE FRAME
ABS or PC/ASA

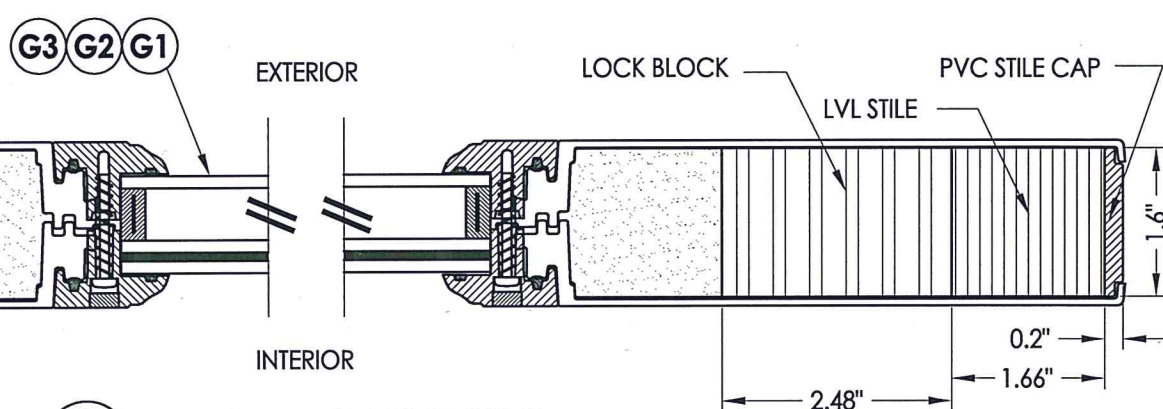


DETAIL 2

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

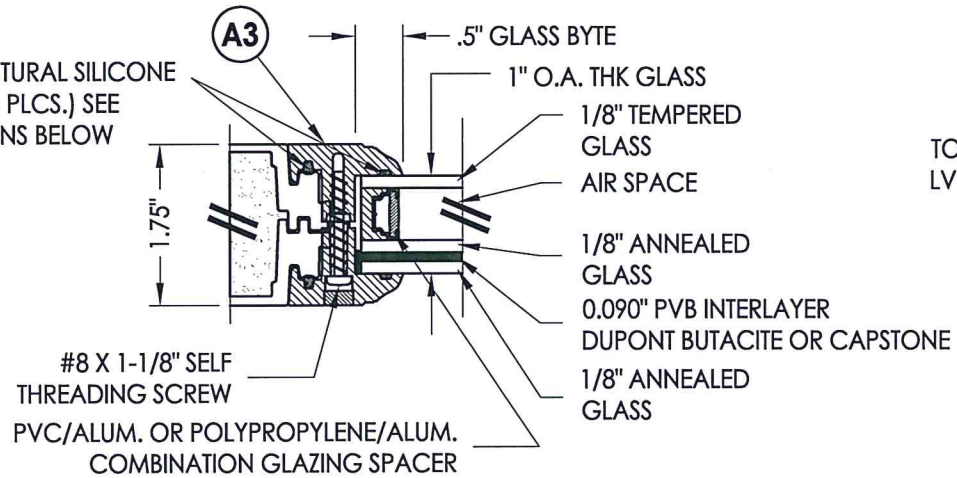


G1 GLAZING DETAIL



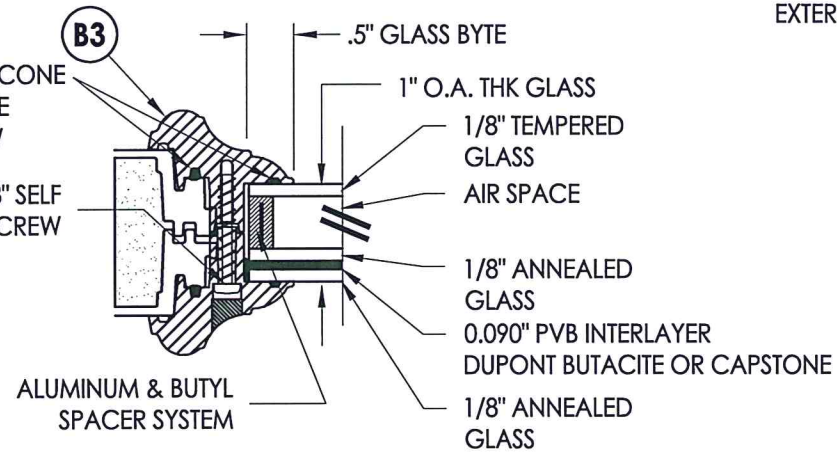
1 2 HORIZONTAL CROSS SECTION

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



G2 GLAZING DETAIL

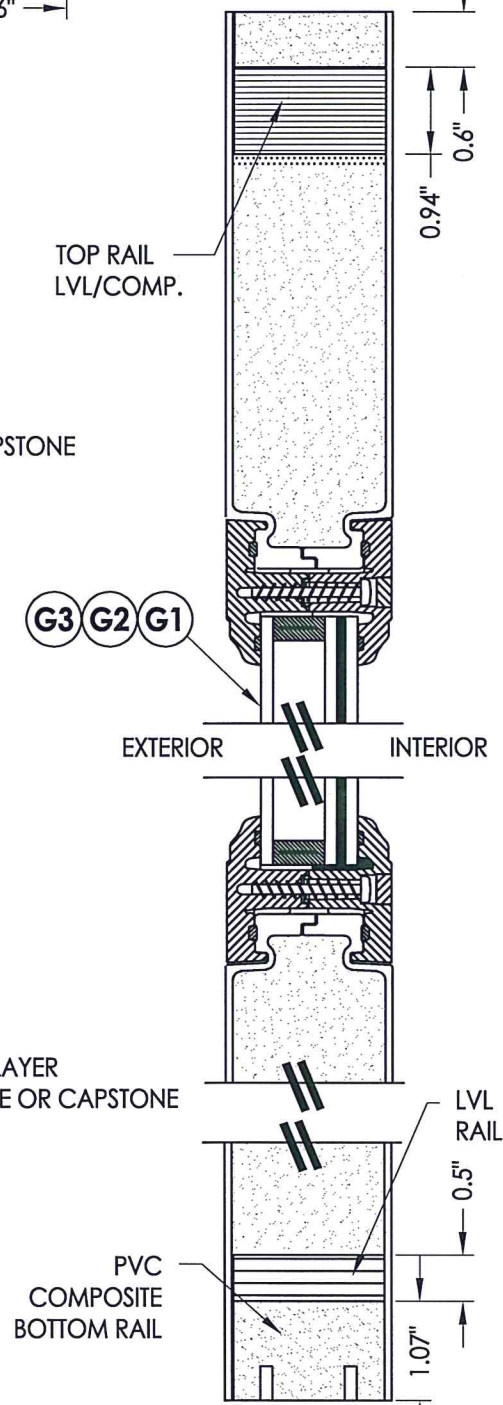
STRUCTURAL SILICONE
(TYP. 4 PLCS.) SEE
OPTIONS BELOW



G3 GLAZING DETAIL

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.).

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



2 2 VERTICAL CROSS SECTION

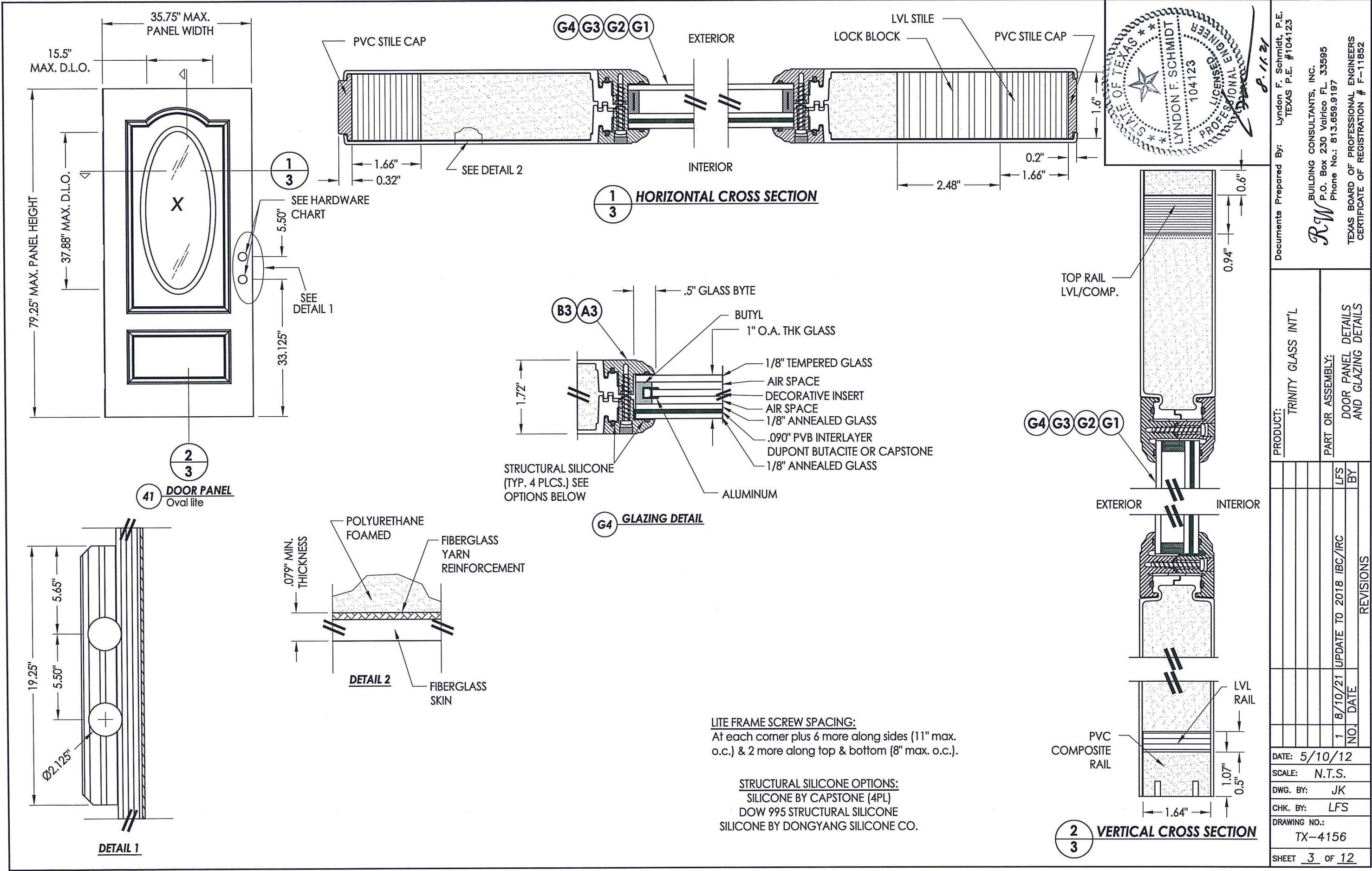


Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

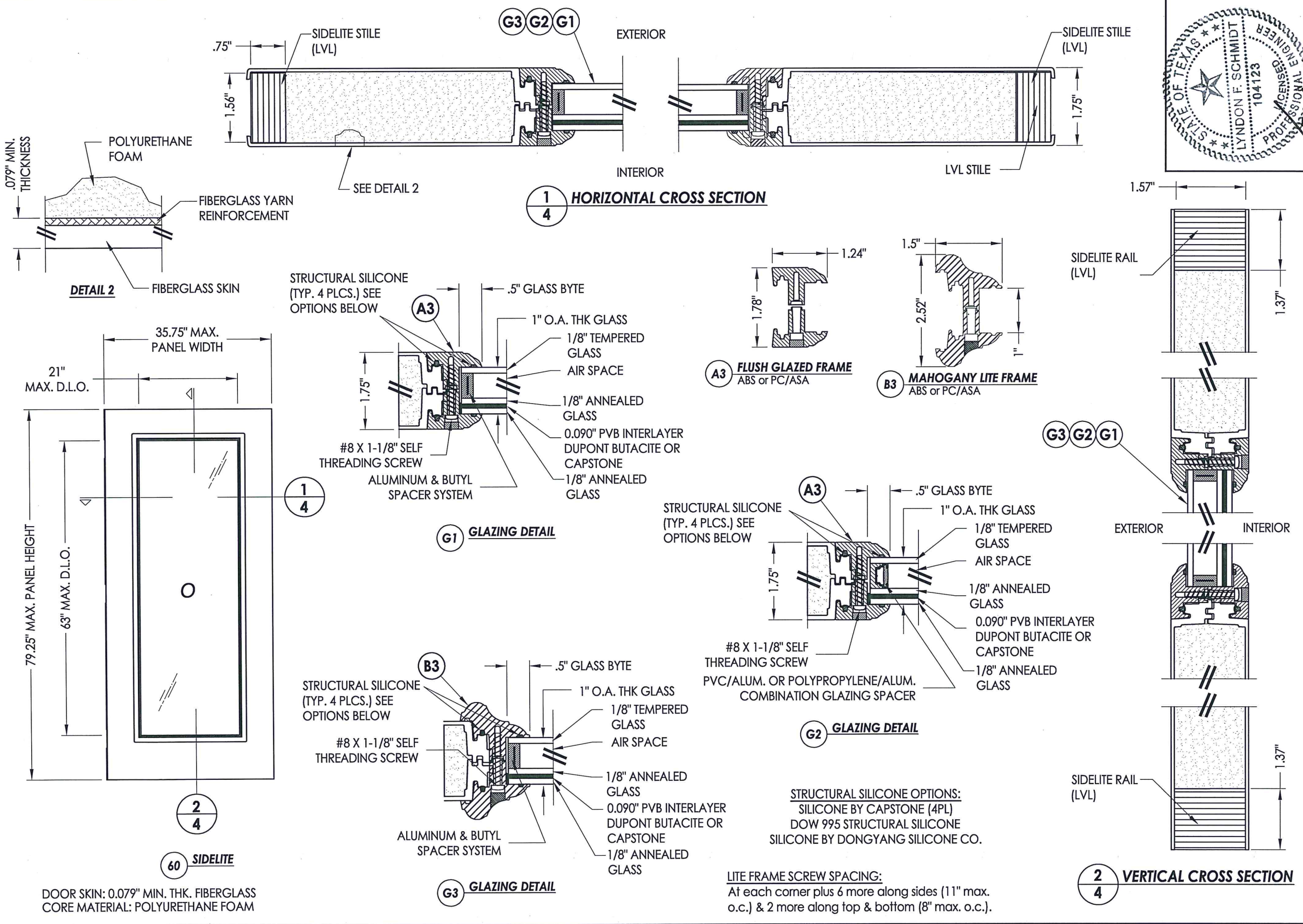
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Volrico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:		TRINITY GLASS INT'L	
PART OR ASSEMBLY:		DOOR PANEL DETAILS	
NO.	DATE	UPDATE TO	BY
1	8/10/21	UPDATE TO 2018 IBC/IRC	LFS
REVISIONS			
DATE: 5/10/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4156			
SHEET 2 OF 12			

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



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

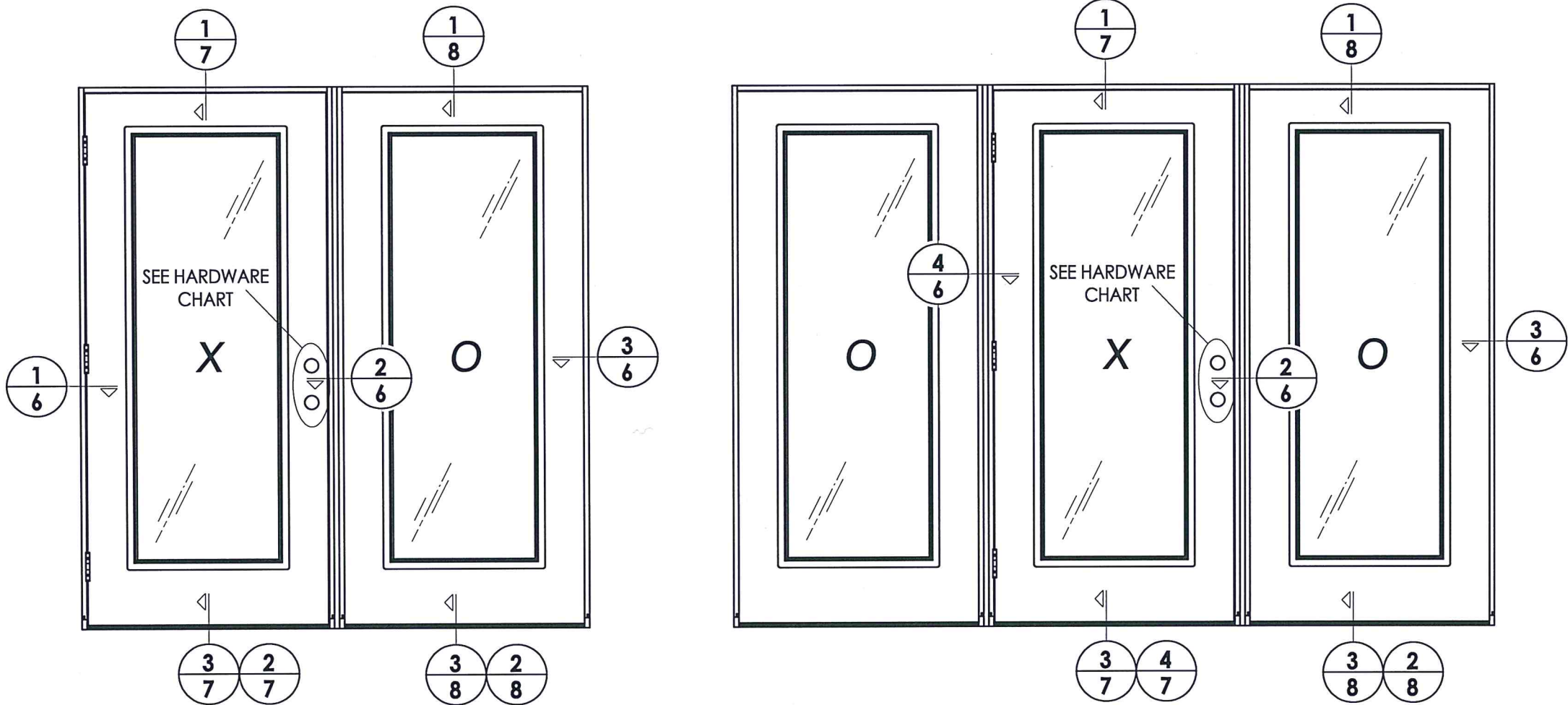


Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

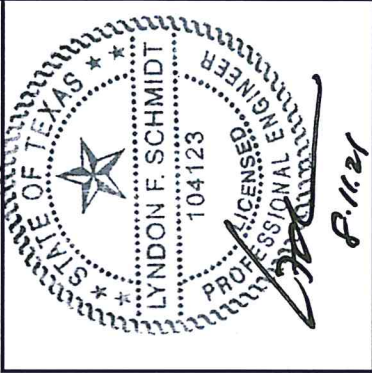
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

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

PRODUCT: TRINITY GLASS INT'L		PART OR ASSEMBLY: SIDELITE PANEL DETAILS AND GLAZING DETAILS	
		LFS	BY
		1	8/10/21
		NO.	DATE
REVISIONS			
DATE: 5/10/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4156			
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)



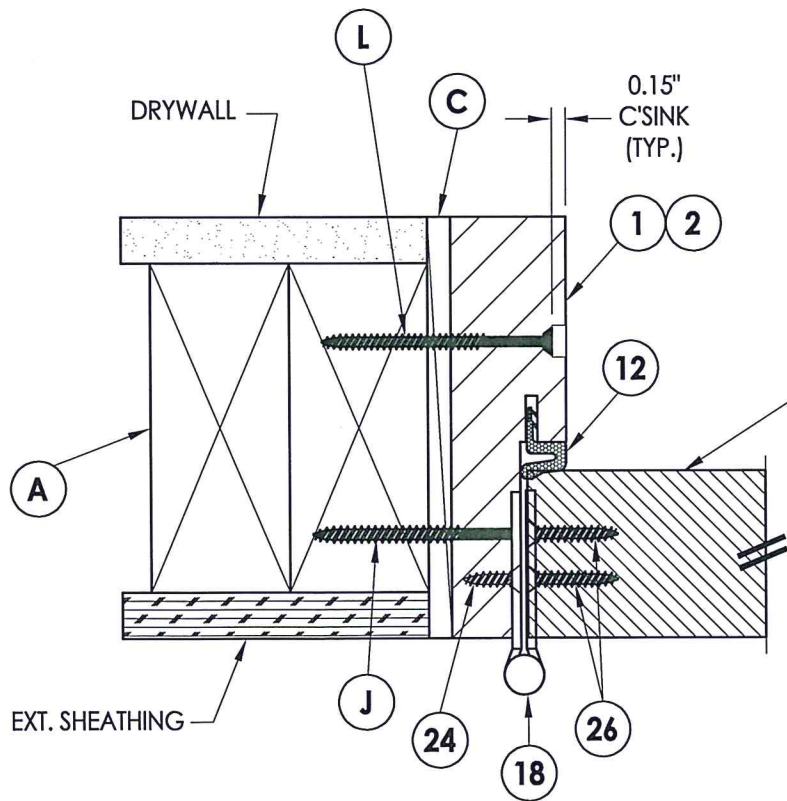
PRODUCT: TRINITY GLASS INT'L	
PART OR ASSEMBLY: ELEVATIONS	
DATE: 5/10/12	NO. 1
SCALE: N.T.S.	DATE: 8/10/21
DWG. BY: JK	UPDATE TO 2018 IBC/IRC
CHK. BY: LFS	BY: LFS
DRAWING NO.: TX-4156	REVISIONS
SHEET 5 OF 12	

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

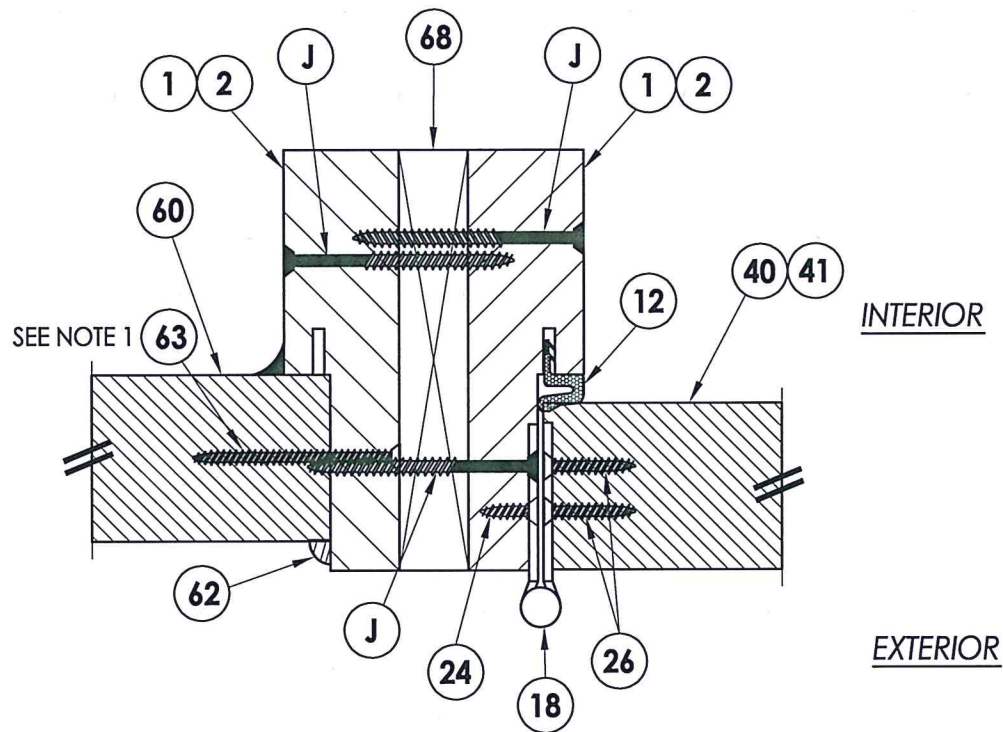
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

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

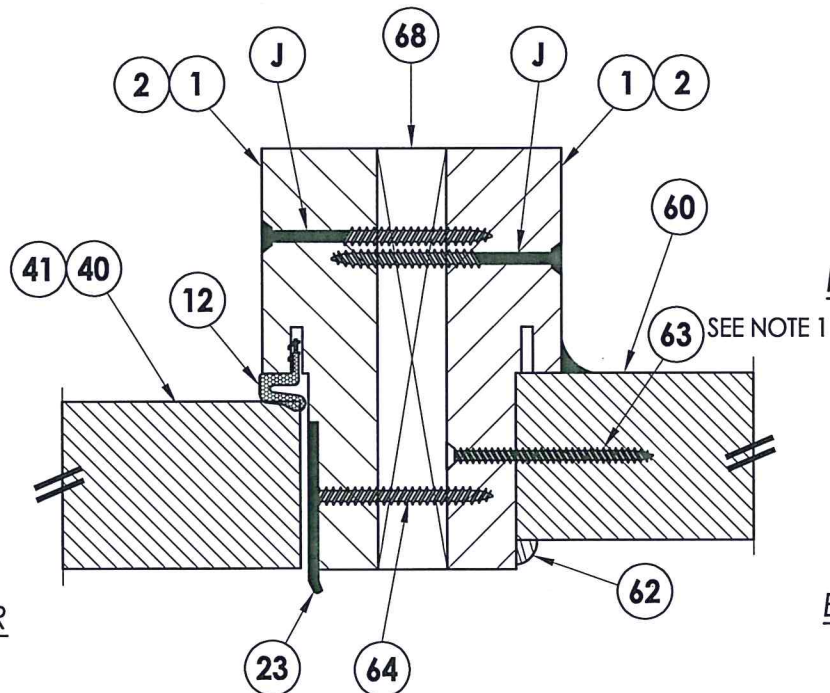
Z:\Clients\Trinity Glass PERMANENT\B - Texas Dept of Ins\DR-273\Drawings\TX-4154-57.dwg



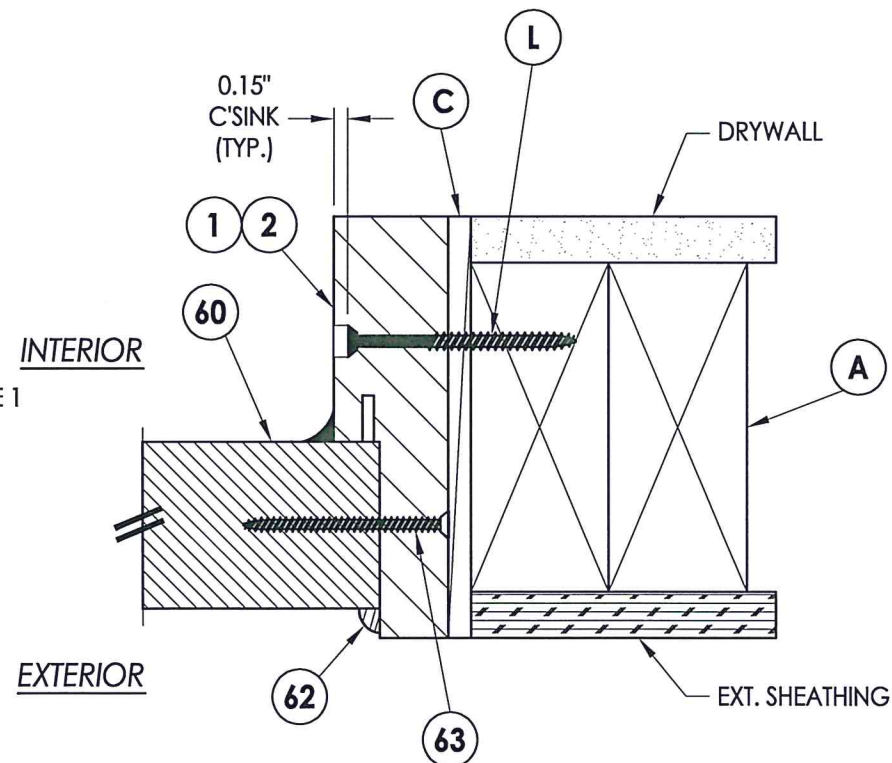
1
6 HORIZONTAL CROSS SECTION



4
6 HORIZONTAL CROSS SECTION



2
6 HORIZONTAL CROSS SECTION



3
6 HORIZONTAL CROSS SECTION

NOTE:

1. Item #63 located 6" from each end and 3 more equally spaced (5 total).



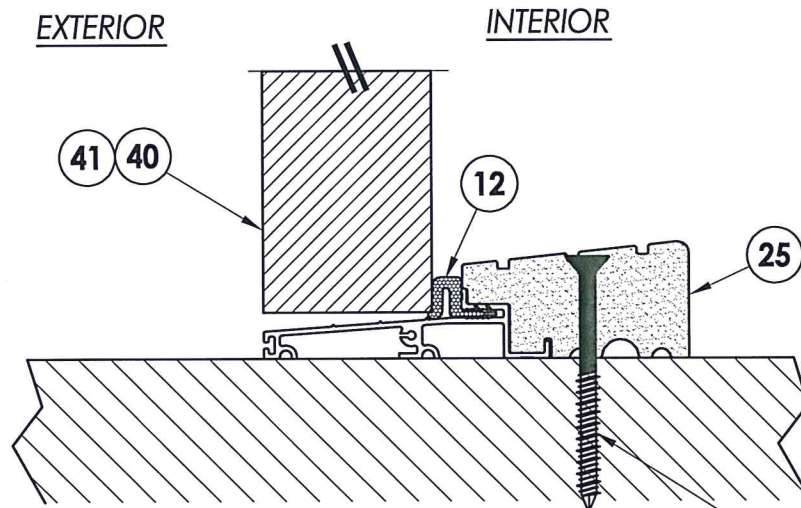
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

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

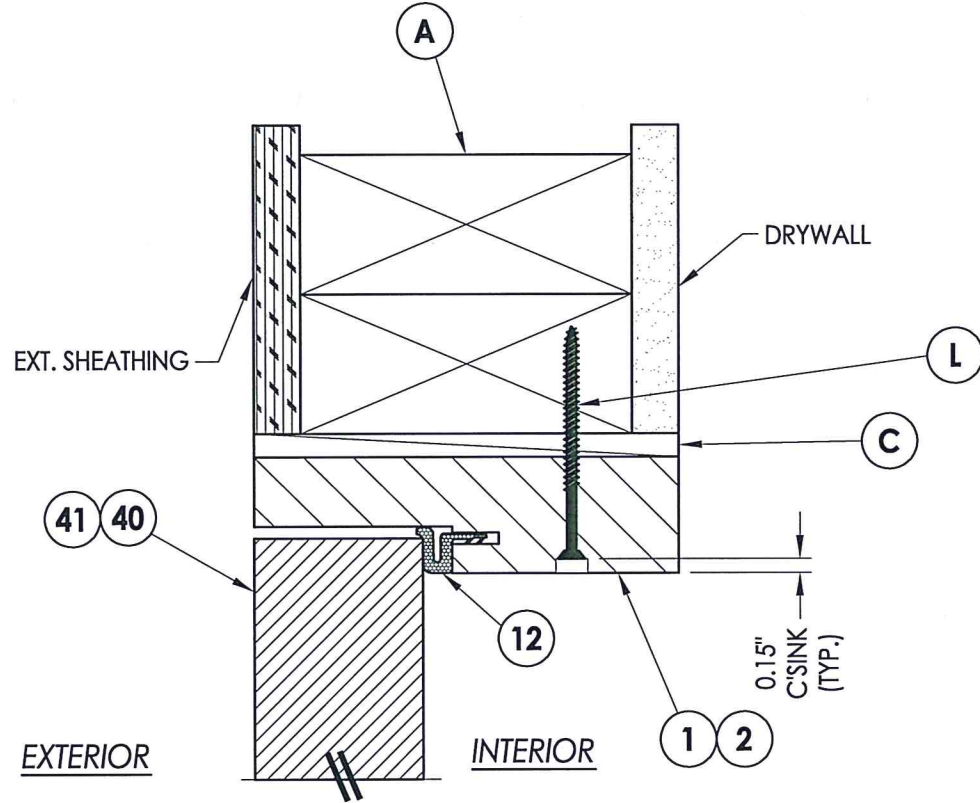
NO.	DATE	REVISIONS
1	8/10/21	UPDATE TO 2018 IBC/IRC
		LFS
		BY

DATE: 5/10/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4156
SHEET 6 OF 12

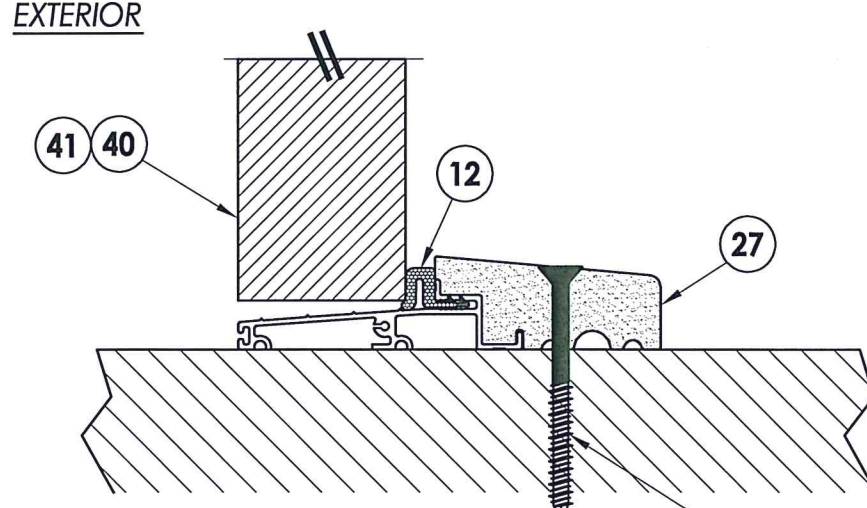
Z:\Clients\Trinity Glass PERMANENT\B - Texas Dept of Ins\DR-273\Drawings\TX-4154-57.dwg



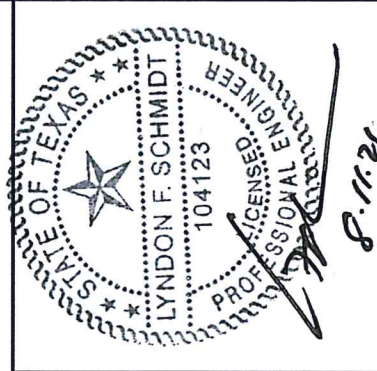
2
7
VERTICAL CROSS SECTION
Outswing sill - high dam



1
7
VERTICAL CROSS SECTION



3
7
VERTICAL CROSS SECTION
Outswing sill



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
		1	8/10/21
		NO.	DATE
		REVISIONS	
DATE:		5/10/12	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		TX-4156	
SHEET		7	OF 12

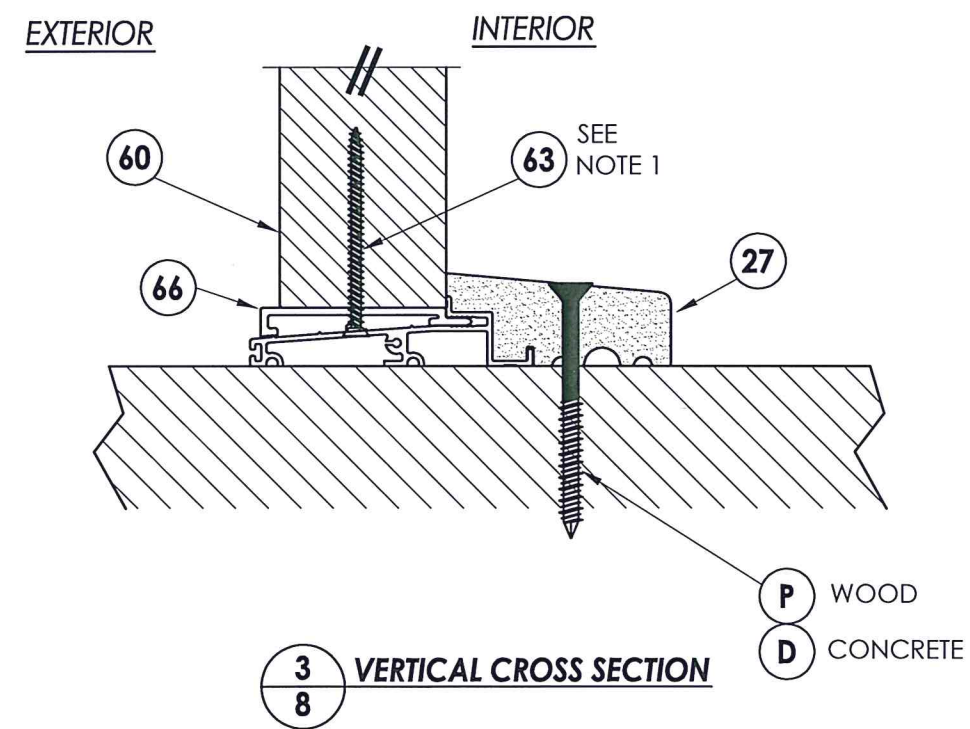
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

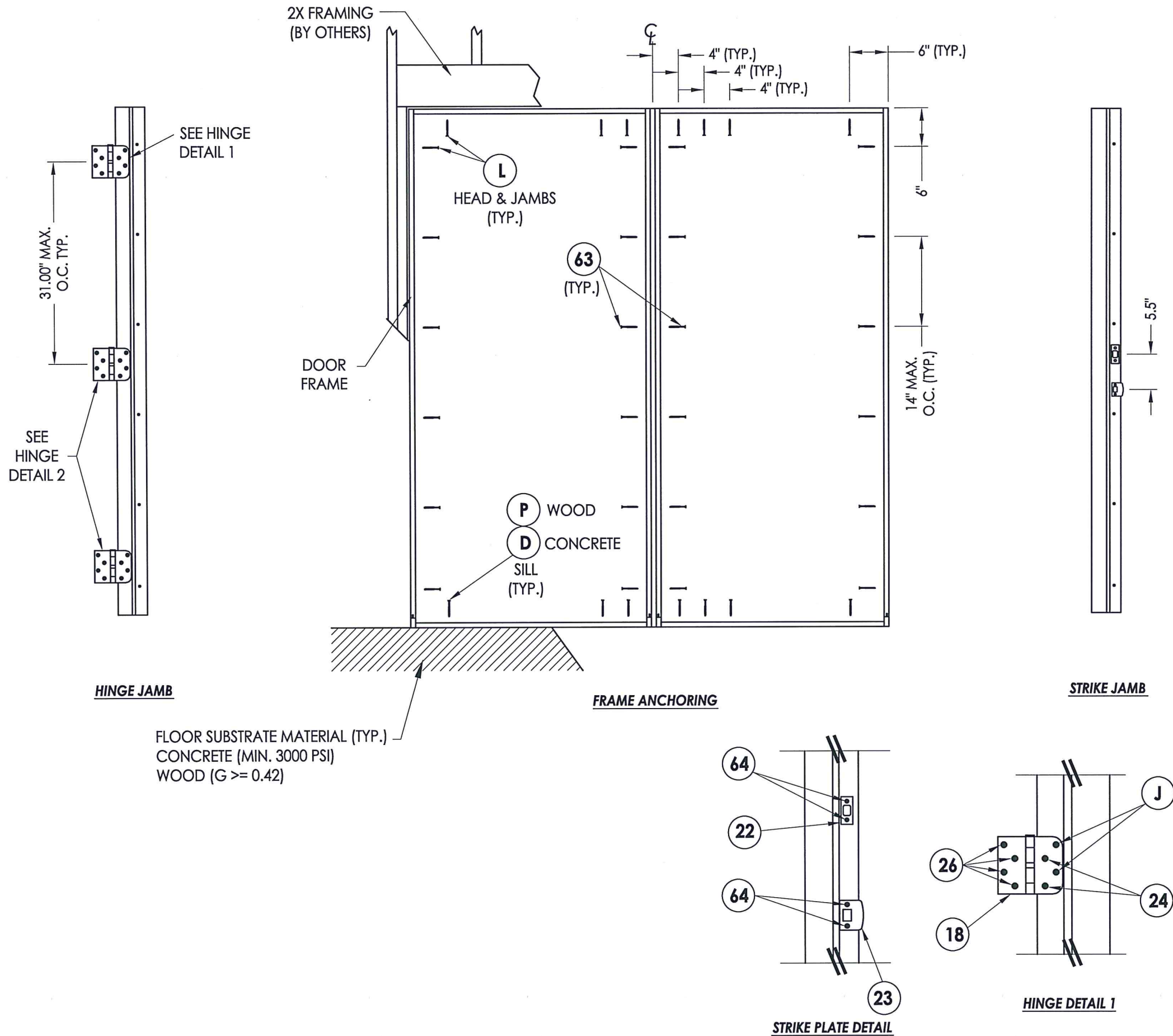


1. Screws thru head and sill jamb located 3" from each end and O.C. (TYP.) line.



PRODUCT:		TRINITY GLASS INT'L	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
1	8/10/21	UPDATE TO 2018 IBC/IRC	LFS
NO.	DATE		BY
		REVISIONS	
DATE: 5/10/12			
SCALE: N.T.S.			
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.: TX-4156			
SHEET 8		OF 12	

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



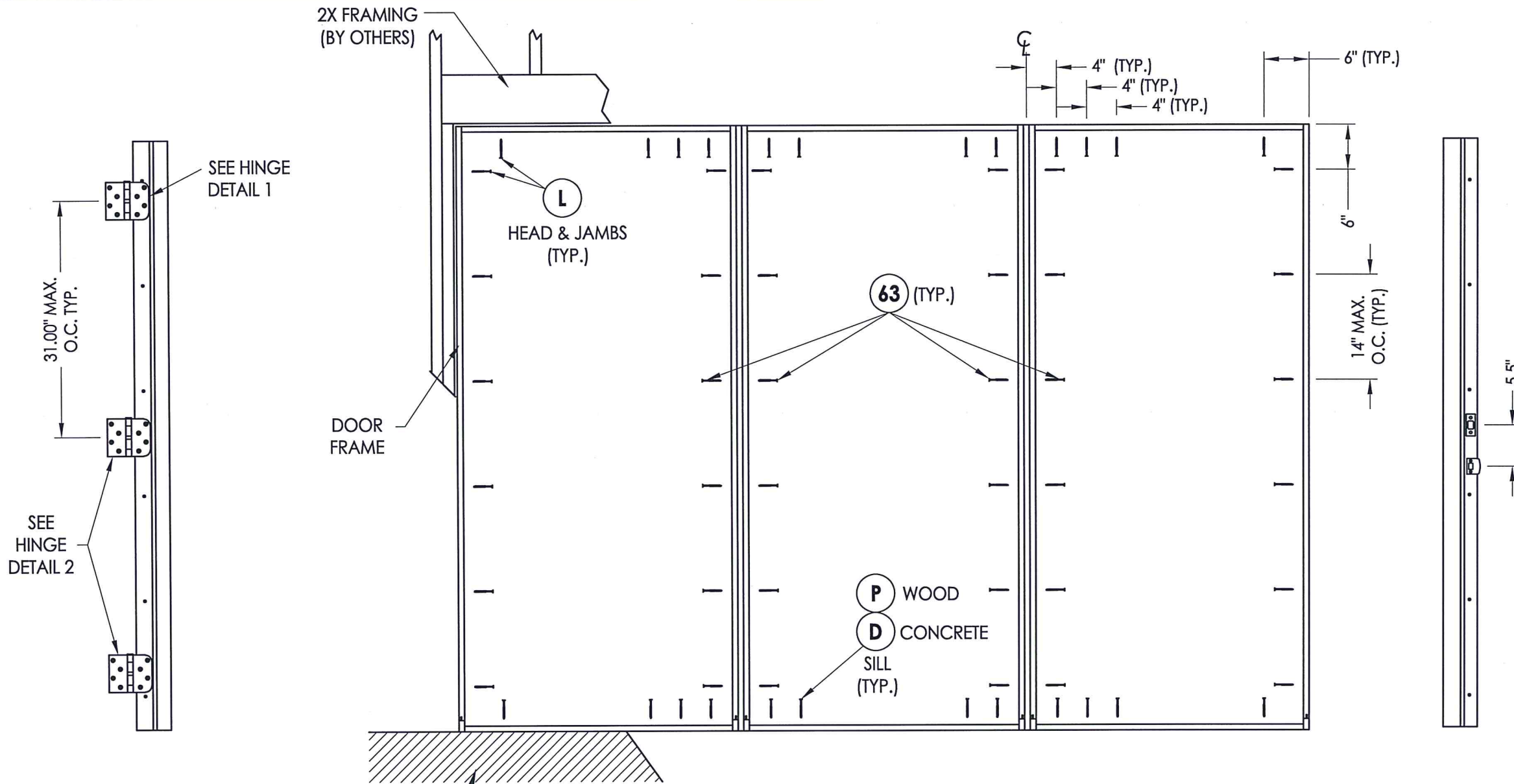
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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:		FRAME ANCHORING (OX/XO)	
						LFS	BY

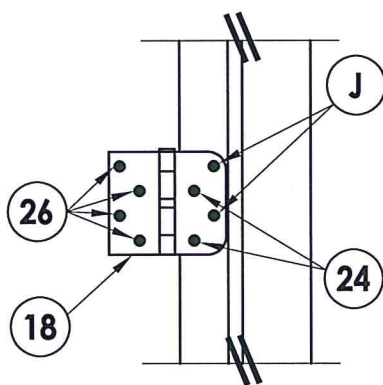
Z:\Clients\Trinity Glass PERMANENT\B - Texas Dept of Ins\DR-273\Drawings\TX-4154-57.dwg



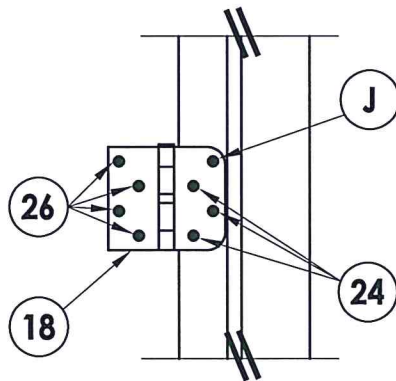
HINGE JAMB

FRAME ANCHORING

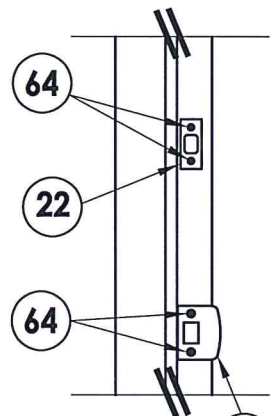
STRIKE JAMB



HINGE DETAIL 1



HINGE DETAIL 2



STRIKE PLATE DETAIL

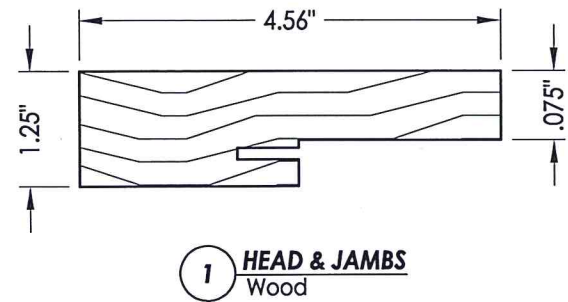


PRODUCT:		TRINITY GLASS INT'L	
PART OR ASSEMBLY:		FRAME ANCHORING (OXO)	
DATE:		5/10/12	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		TX-4156	
SHEET		10 OF 12	
REVISONS			
NO.		DATE	
1		8/10/21	
		UPDATE TO 2018 IBC/IRC	
		LFS	
		BY	

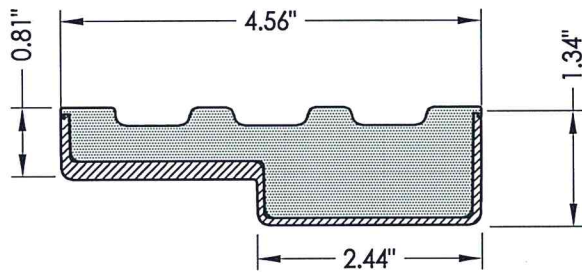
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

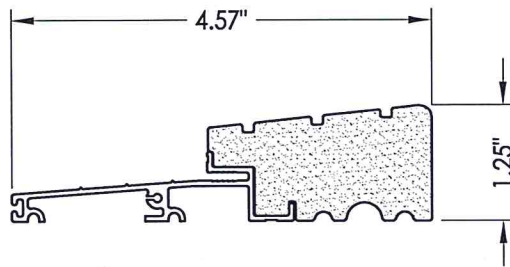
Z:\Clients\Trinity Glass PERMANENT\B - Texas Dept of Ins\DR-273\Drawings\TX-4154-57.dwg



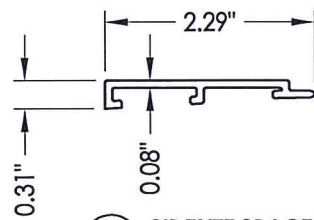
1 HEAD & JAMBS
Wood



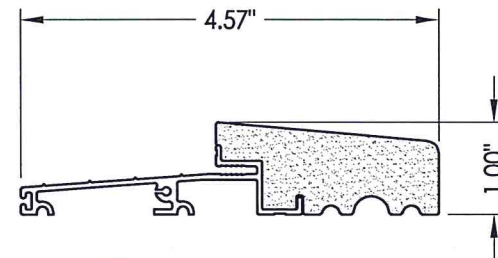
2 HEAD & JAMBS
Composite PVC Base
w/ Fiberglass Wrap



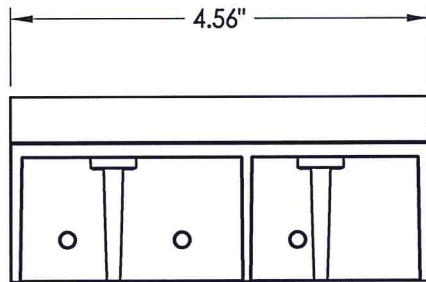
25 OUTSWING THRESHOLD
High-dam option



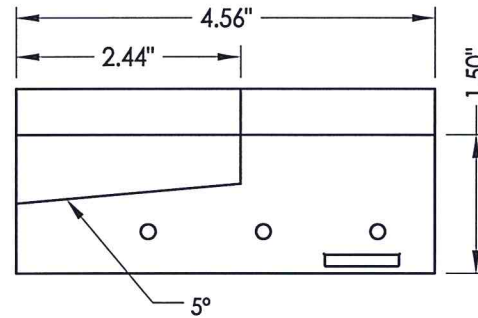
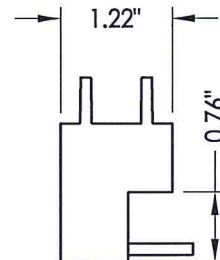
66 SIDELITE SPACER
Outswing



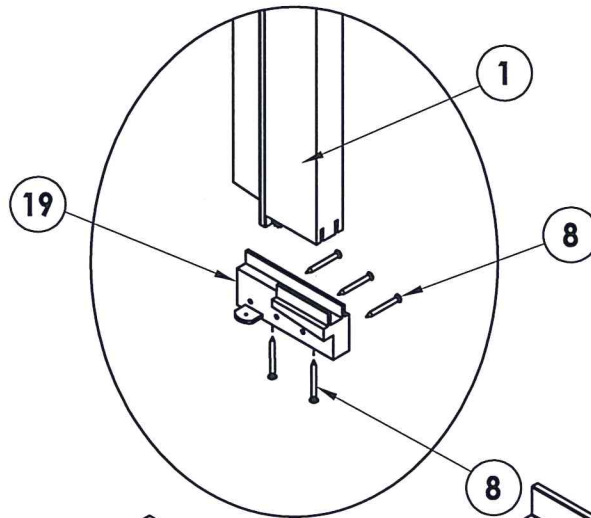
27 OUTSWING THRESHOLD



SILLKEY, LEFT
SCALE: NONE



SILLKEY, RIGHT
SCALE: NONE



19 SILLKEY DETAILS
Optional



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

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	
1		8/10/21	
LFS		UPDATE TO 2018 IBC/IRC	
BY		REVISIONS	
DATE:		5/10/12	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		TX-4156	
SHEET		11 OF 12	

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 DeWALT OR ITW CONCRETE SCREW	STEEL
J	#9 X 2-1/4" PFH WS	STEEL
L	#8 X 2-1/2" PFH WS	STEEL
1	HEAD & JAMBS (FINGER-JOINT PINE: G >= 0.42)	WOOD
2	HEAD & JAMBS (FIBERGLASS/COMPOSITE)	FIBERGLASS/COMP
8	#6 X 1-1/4 PFH DRYWALL SCREW	STEEL
9	#9 X 2-1/4" PFH WOOD 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	-
60	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
63	#8 X 2-1/4" PFH WOOD SCREW	STEEL
64	#8 X 2" PFH WOOD SCREW	STEEL
68	1X MULLION (G >= 0.42)	WOOD
69	MULLION BASE KIT	PC/ASA

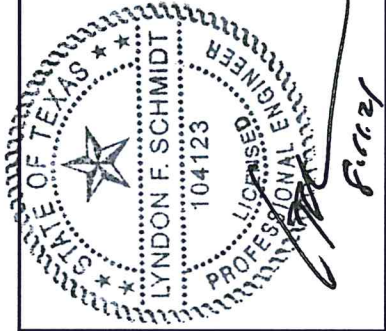
CONCRETE ANCHOR NOTES:

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®	1/4"	1-3/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-3/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

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

R²W 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]