

## GLAZED FIBERGLASS SINGLE DOOR

OUTSWING  
"IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

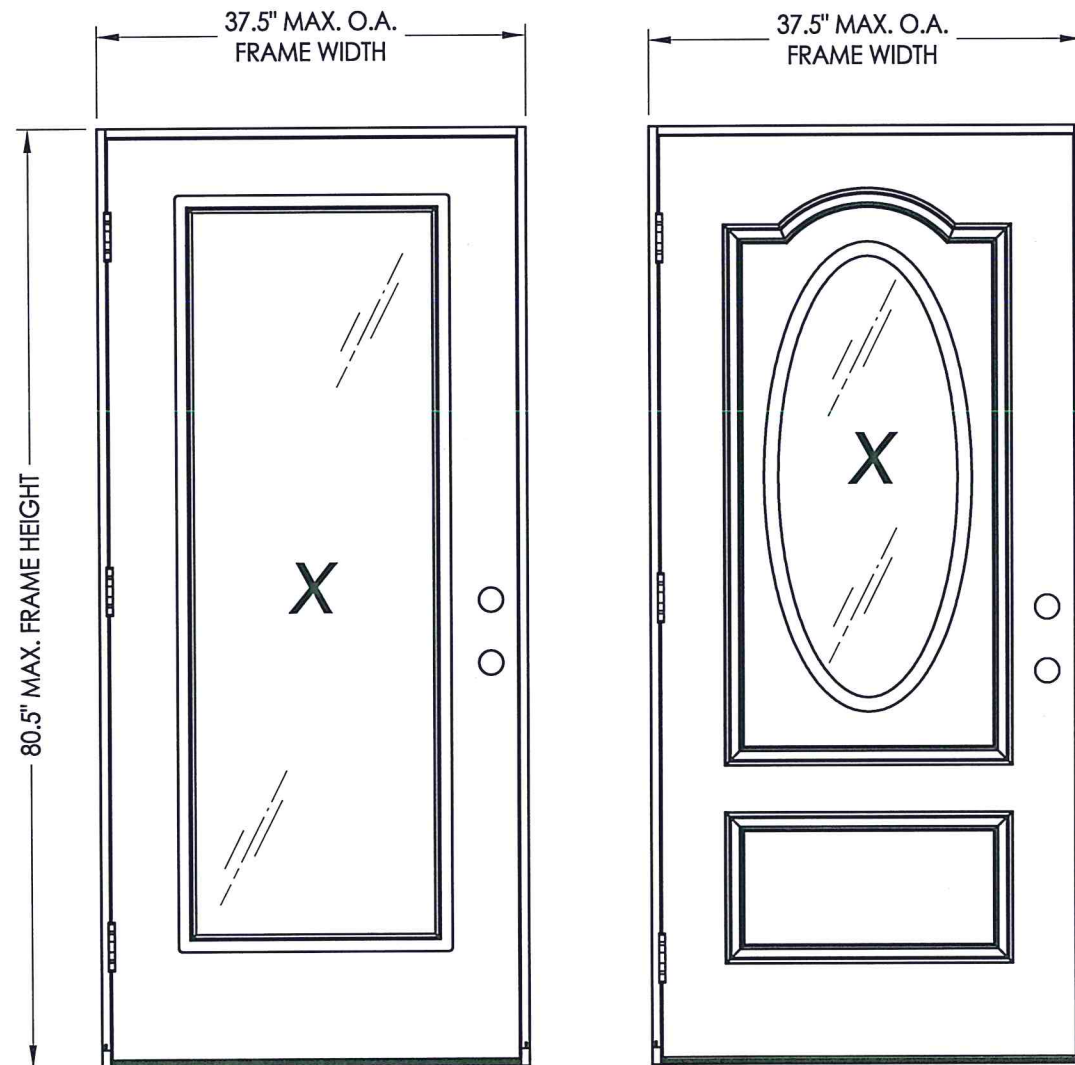
**DR-273**

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.

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| SHEET# | DESCRIPTION                                          |
|--------|------------------------------------------------------|
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| 2      | Door panel details and glazing details               |
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| 4      | Horizontal cross sections                            |
| 5      | Vertical cross sections                              |
| 6      | Frame anchoring (X)                                  |
| 7      | Components                                           |
| 8      | Bill of materials                                    |



RECTANGULAR LITE

OVAL LITE

| DOOR LITE   | MAX. FRAME DIMENSION | GLASS TYPE  | DESIGN PRESSURE (PSF) |          | DESIGN PRESSURE (PSF)        |          |
|-------------|----------------------|-------------|-----------------------|----------|------------------------------|----------|
|             |                      |             | WOOD JAMBS            |          | PVC or FIBERGLASS/COMP JAMBS |          |
|             |                      |             | POSITIVE              | NEGATIVE | POSITIVE                     | NEGATIVE |
| RECTANGULAR | 37.5" x 80.5"        | G1, G2 & G3 | +60.0                 | -60.0    | +60.0                        | -60.0    |
| OVAL        | 37.5" x 80.5"        | G1, G4      | +75.0                 | -75.0    | +60.0                        | -60.0    |



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

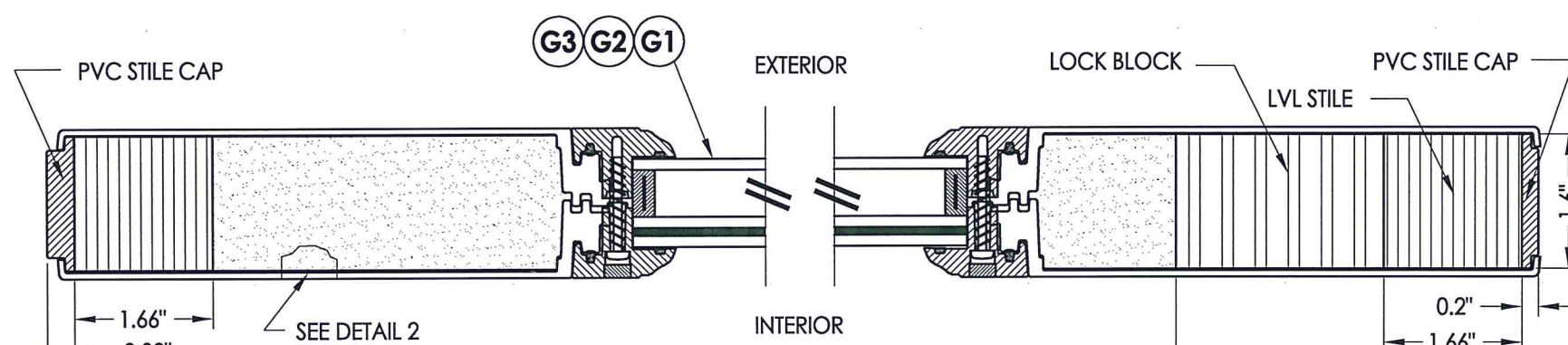
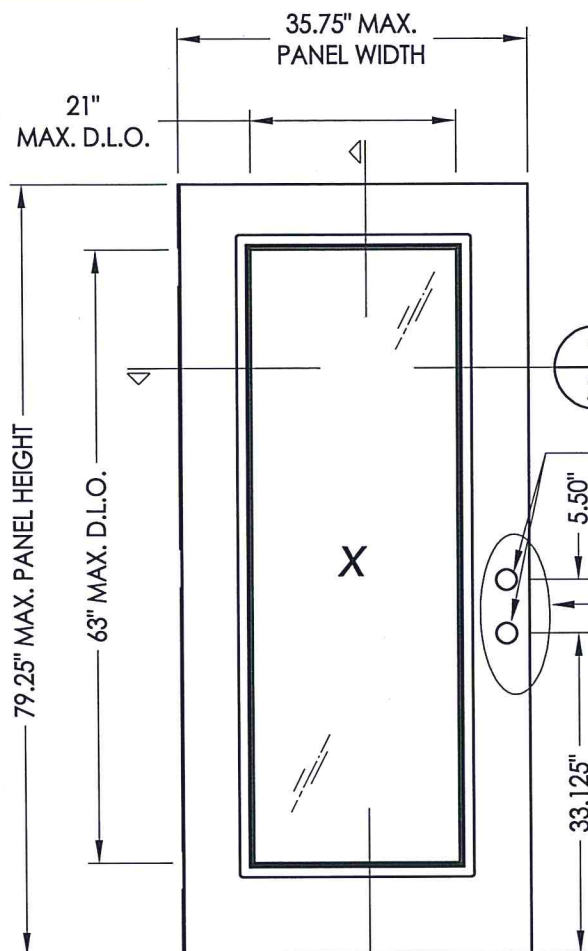
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L  
PART OR ASSEMBLY:  
TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

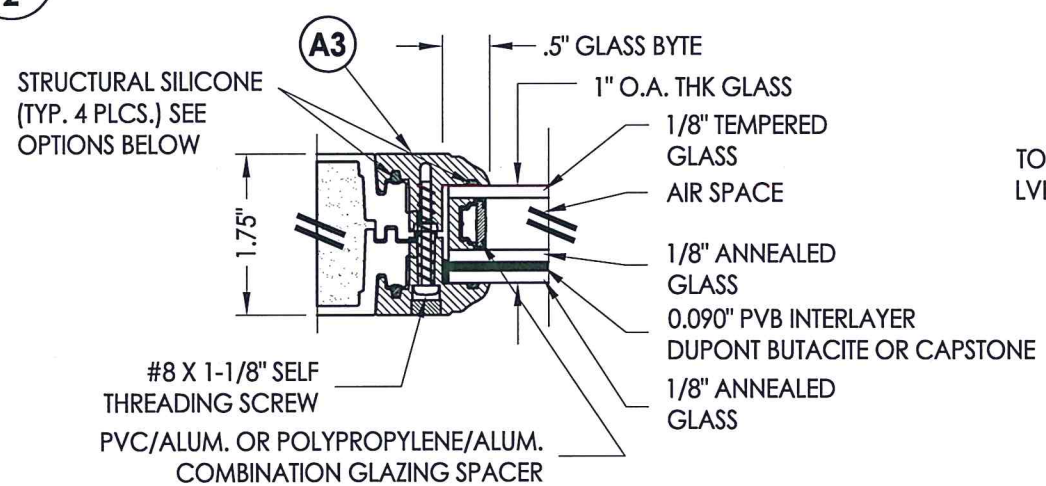
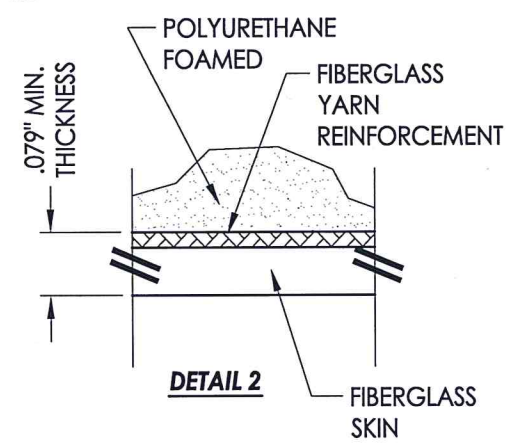
| NO. | DATE    | REVISIONS              |
|-----|---------|------------------------|
| 1   | 8/10/21 | UPDATE TO 2018 IBC/IRC |

DATE: 5/10/12  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4154  
SHEET 1 OF 8

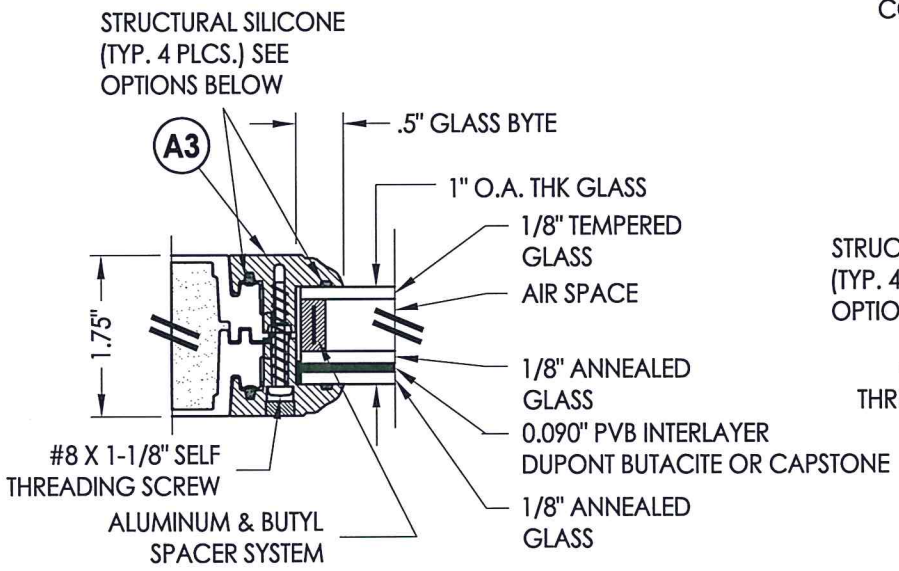
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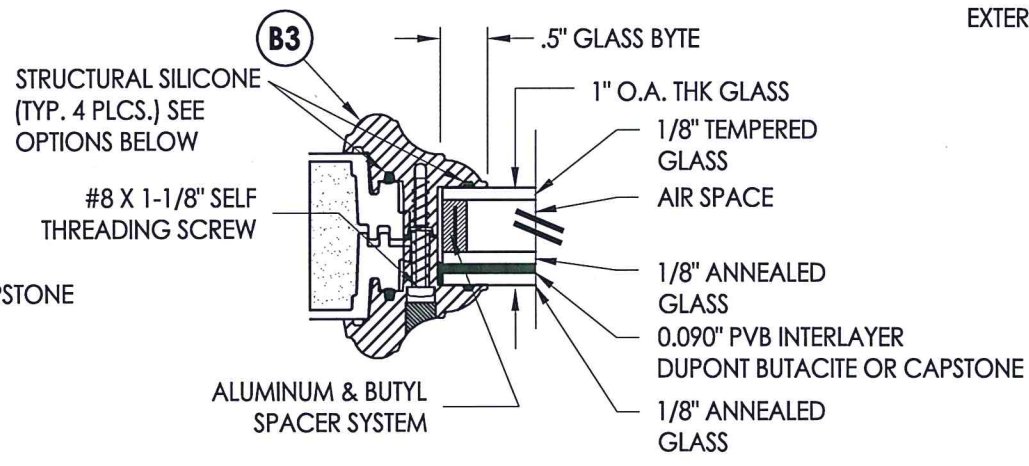
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2 HORIZONTAL CROSS SECTION



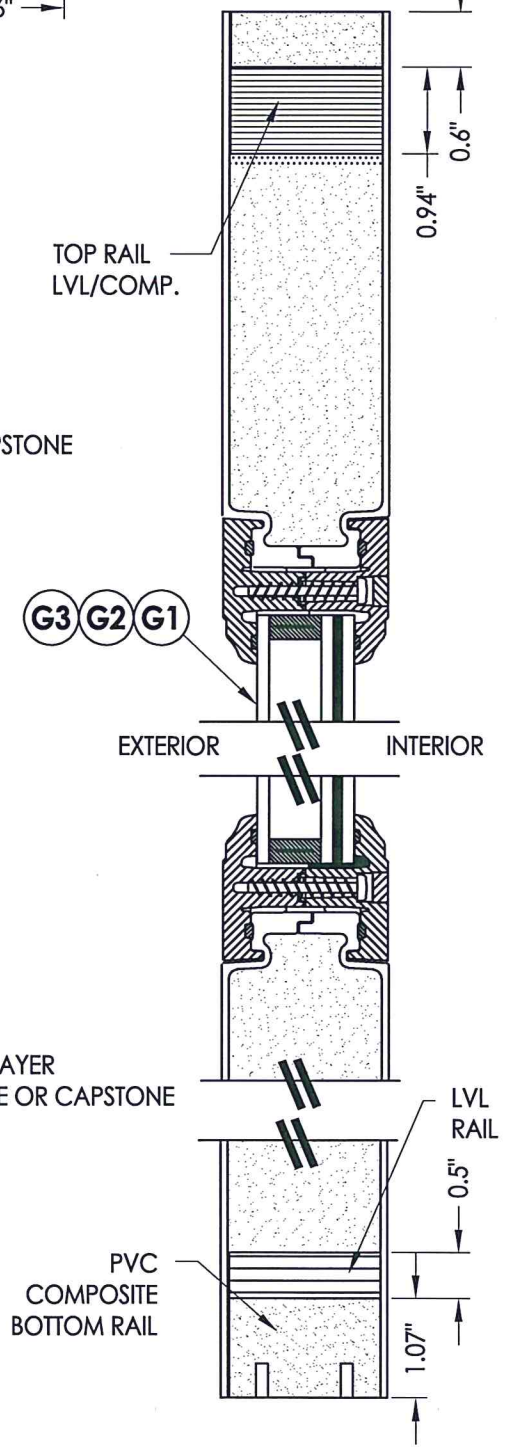
G2 GLAZING DETAIL



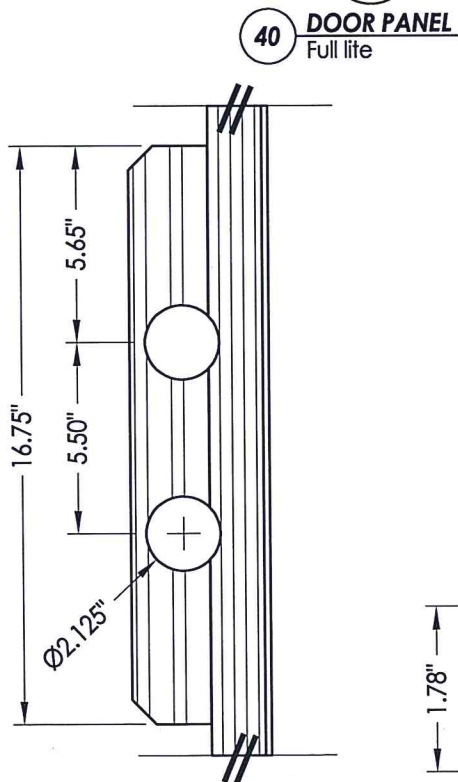
G1 GLAZING DETAIL



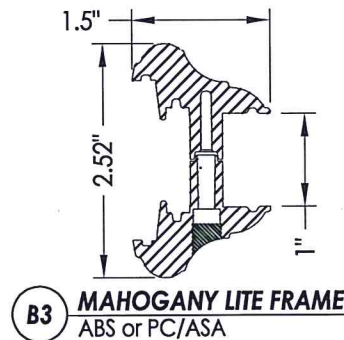
G3 GLAZING DETAIL



2  
2 VERTICAL CROSS SECTION



A3 FLUSH GLAZED FRAME  
ABS or PC/ASA

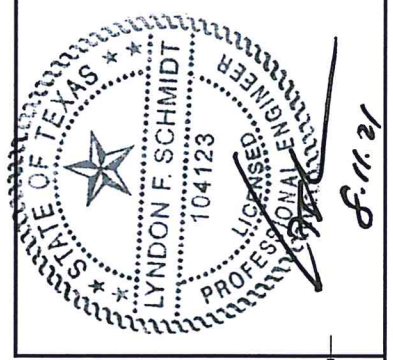


B3 MAHOGANY LITE FRAME  
ABS or PC/ASA

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

| HARDWARE CHART |                                                                  |
|----------------|------------------------------------------------------------------|
| MANUFACTURER   | MODEL                                                            |
| KWIKSET        | KNOB: SIGNATURE SERIES (740)<br>DEADBOLT: SIGNATURE SERIES (980) |

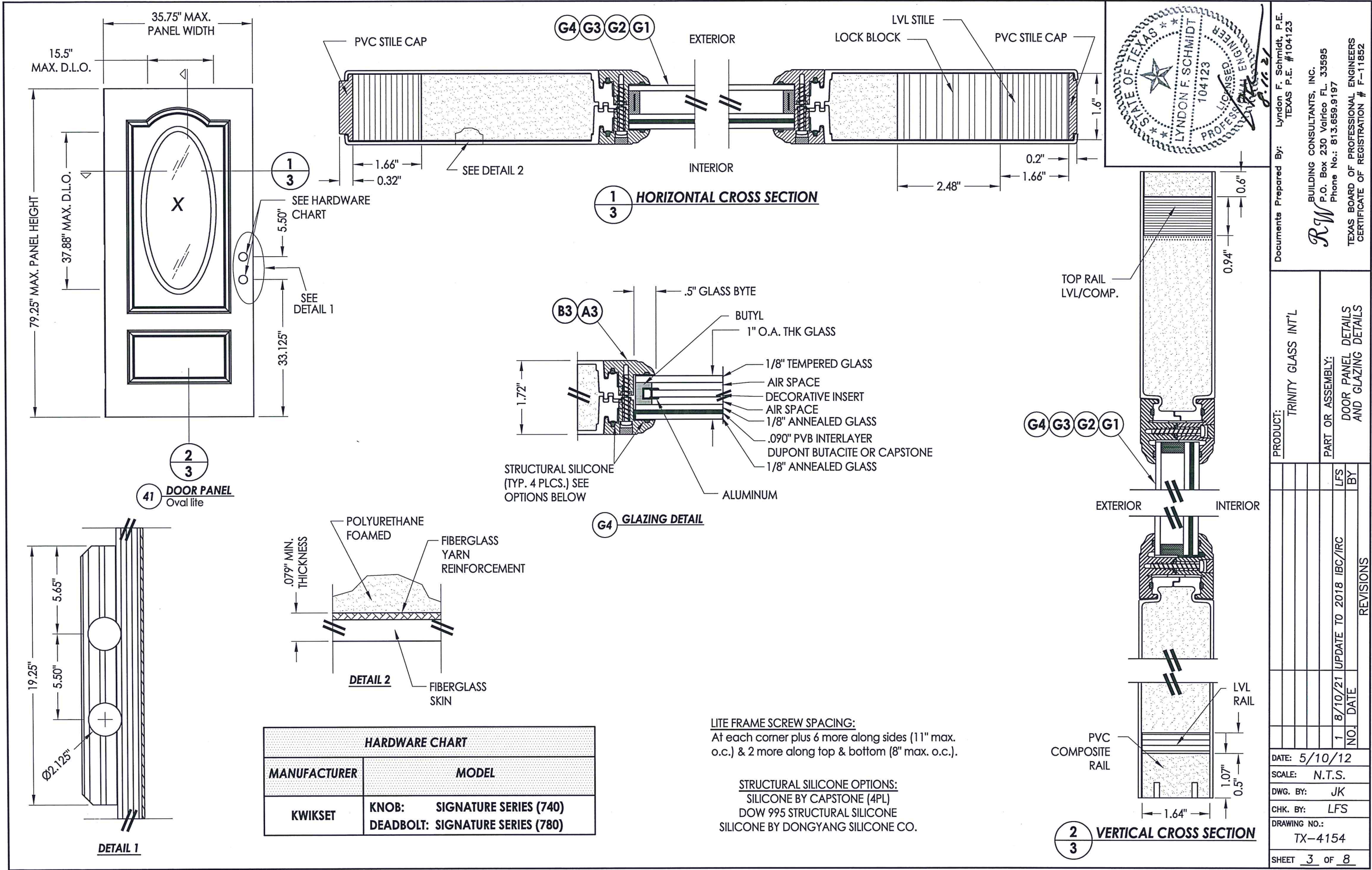
STRUCTURAL SILICONE OPTIONS:  
SILICONE BY CAPSTONE (4PL)  
DOW 995 STRUCTURAL SILICONE  
SILICONE BY DONGYANG SILICONE CO.

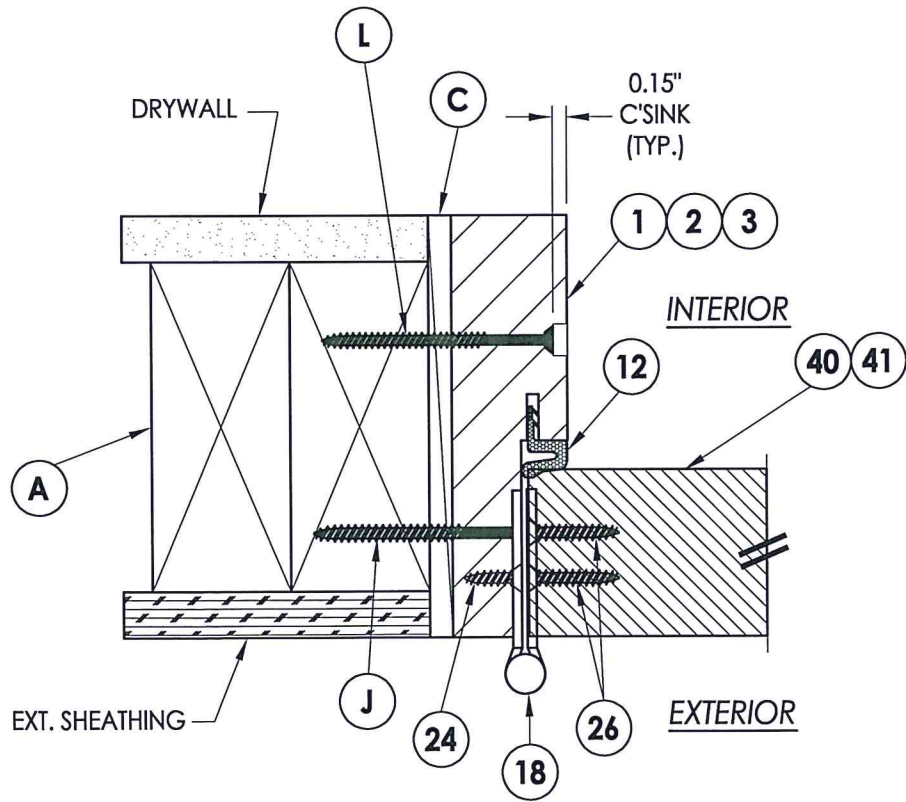


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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

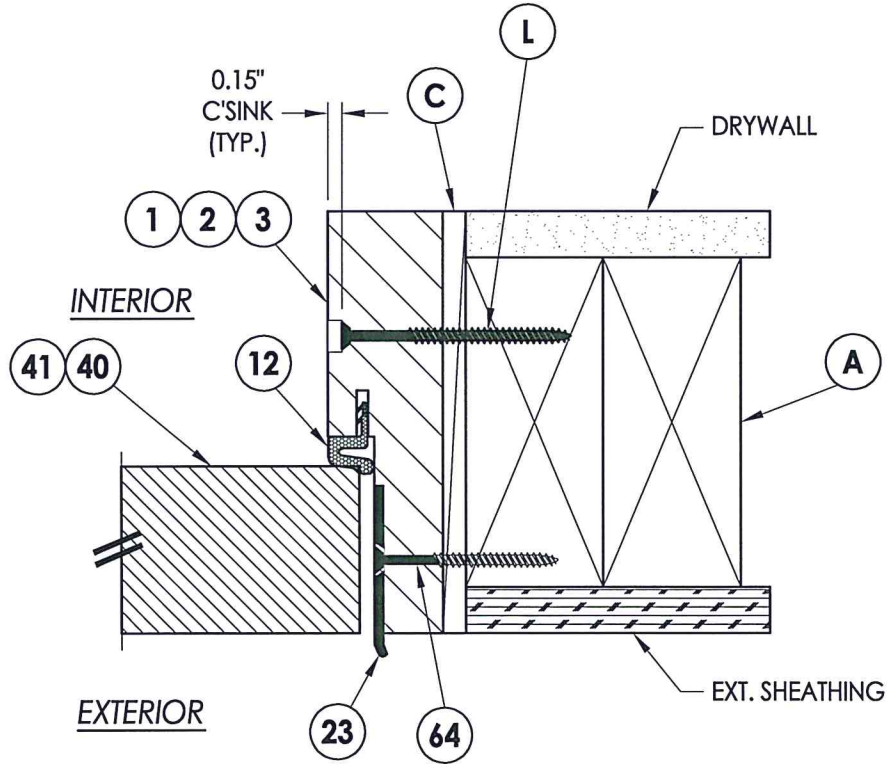
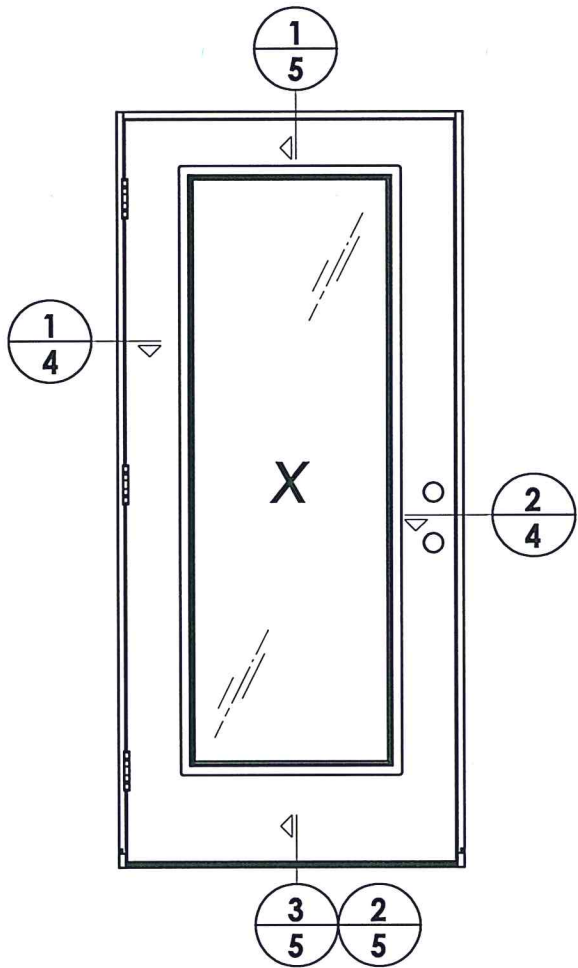
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|                              |  | LFS                                                      | BY      |
|                              |  | 1                                                        | 8/10/21 |
|                              |  | NO.                                                      | DATE    |
| REVISIONS                    |  |                                                          |         |
| DATE: 5/10/12                |  |                                                          |         |
| SCALE: N.T.S.                |  |                                                          |         |
| DWG. BY: JK                  |  |                                                          |         |
| CHK. BY: LFS                 |  |                                                          |         |
| DRAWING NO.: TX-4154         |  |                                                          |         |
| SHEET 2 OF 8                 |  |                                                          |         |

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**1**  
**4** HORIZONTAL CROSS SECTION



**2**  
**4** HORIZONTAL CROSS SECTION

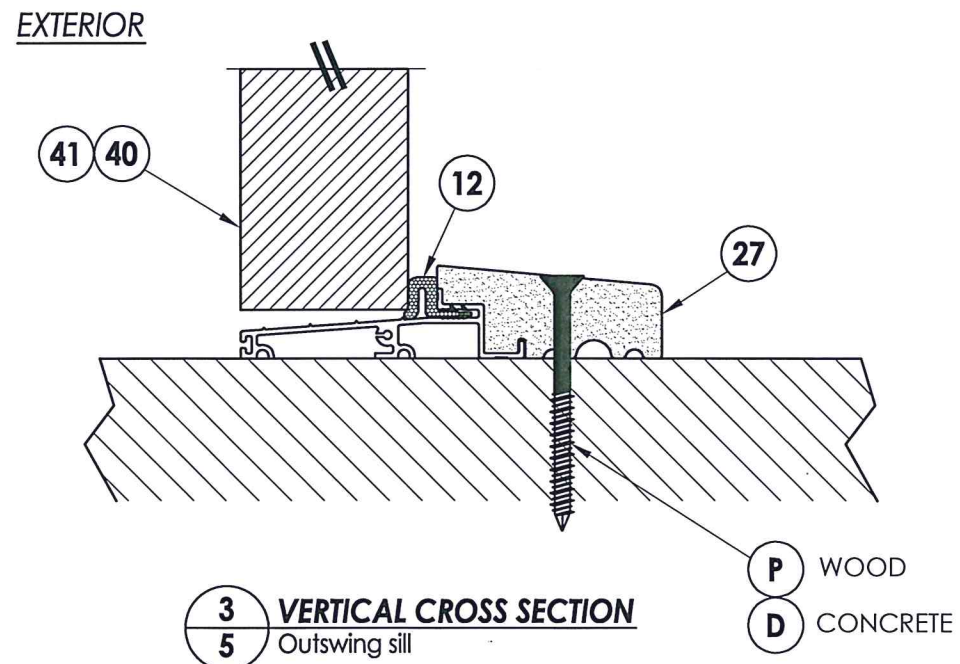
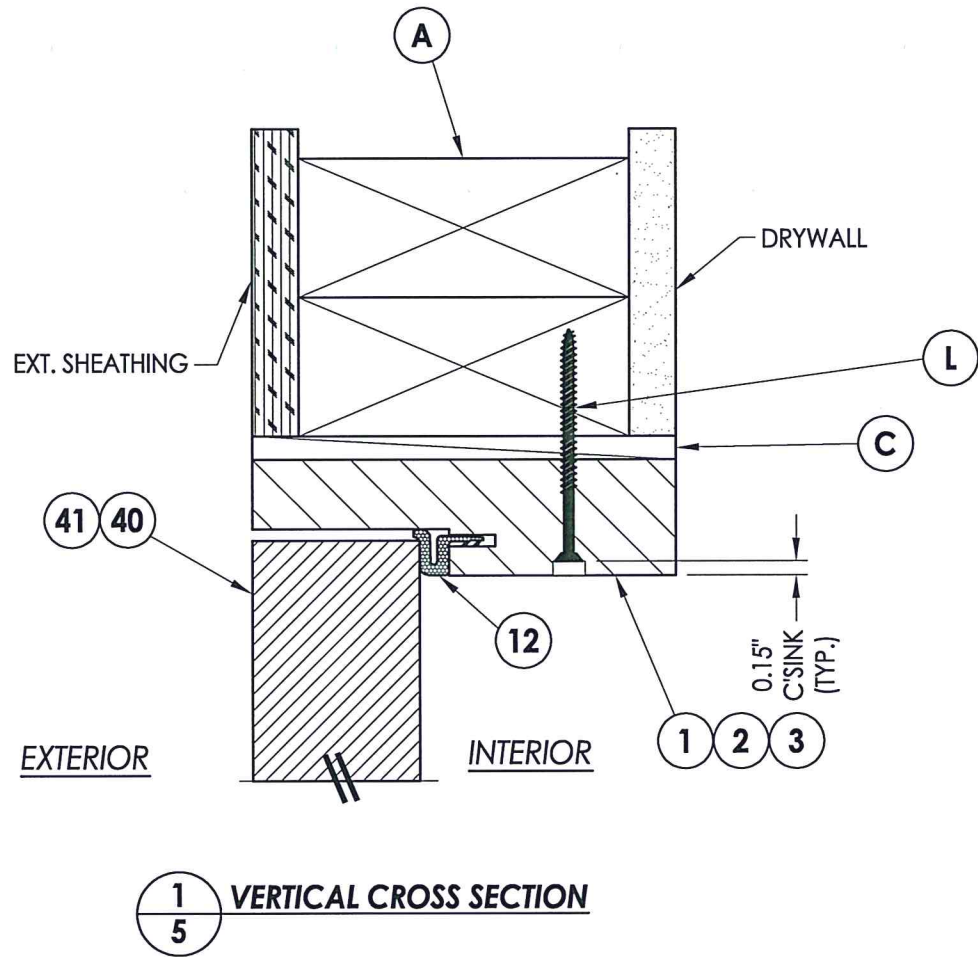
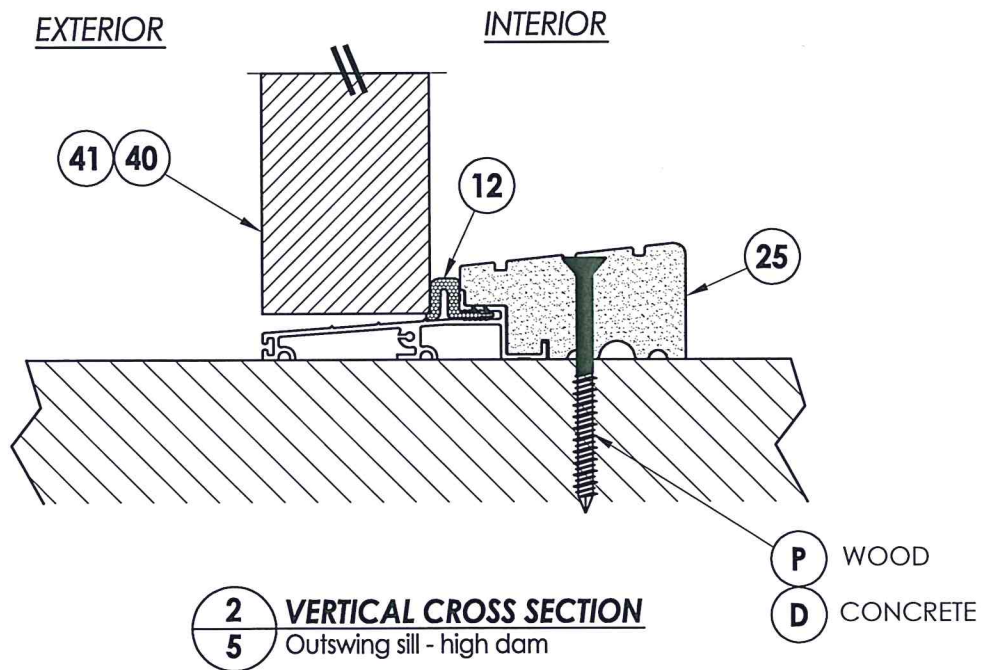


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|                      |         |                           |    |
|----------------------|---------|---------------------------|----|
| PRODUCT:             |         | TRINITY GLASS INT'L       |    |
| PART OR ASSEMBLY:    |         | HORIZONTAL CROSS SECTIONS |    |
| NO.                  | DATE    | REVISIONS                 |    |
|                      |         | LFS                       | BY |
| 1                    | 8/10/21 | UPDATE TO 2018 IBC/IRC    |    |
| DATE: 5/10/12        |         |                           |    |
| SCALE: N.T.S.        |         |                           |    |
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| CHK. BY:             |         | LFS                       |    |
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| SHEET 4              |         | OF 8                      |    |

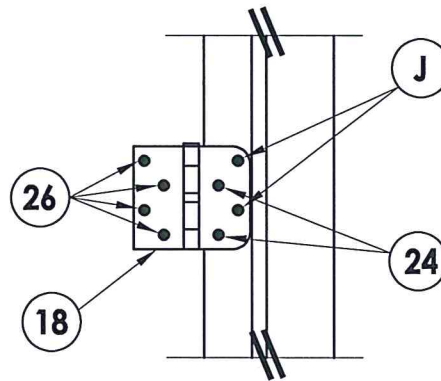
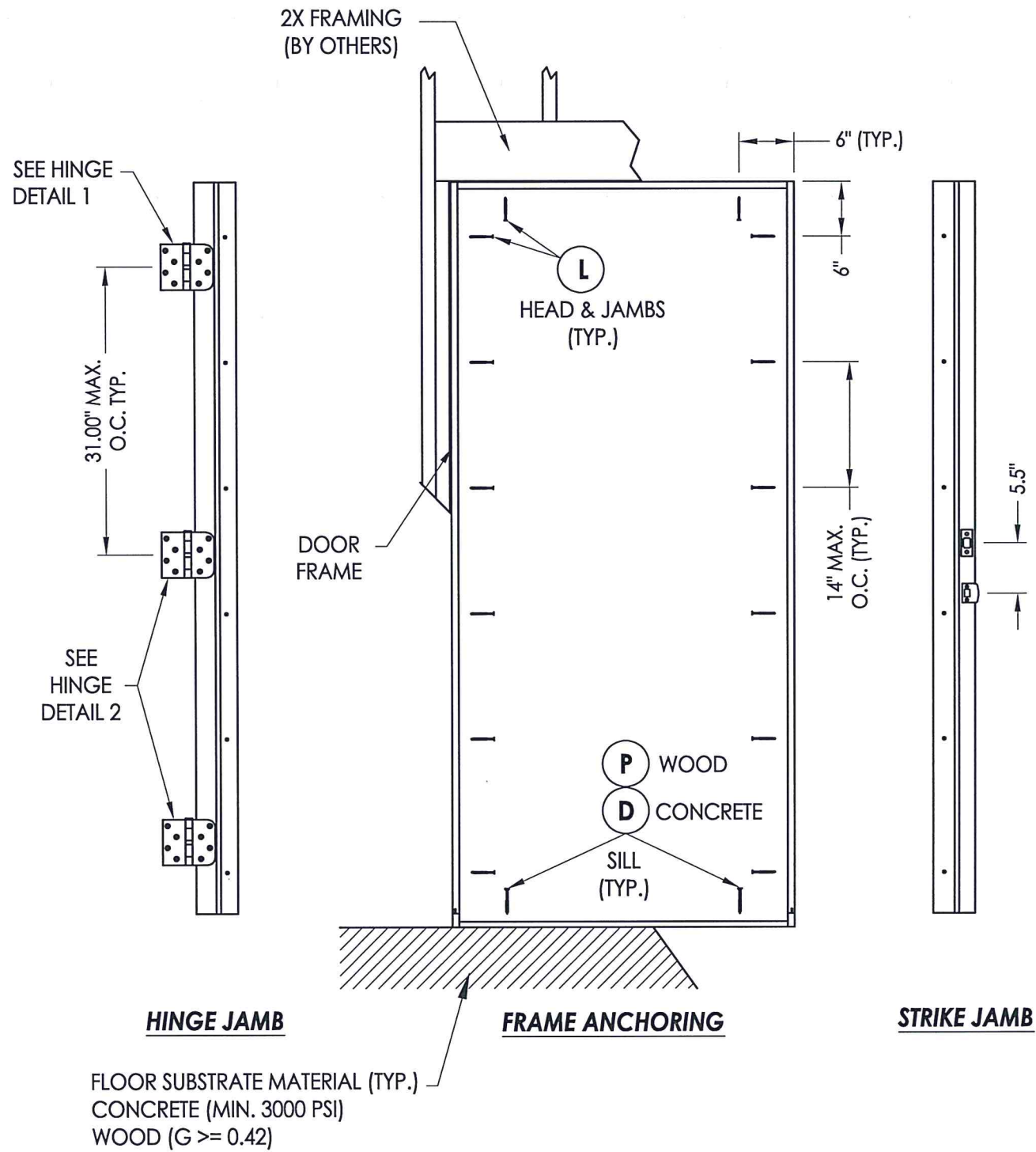
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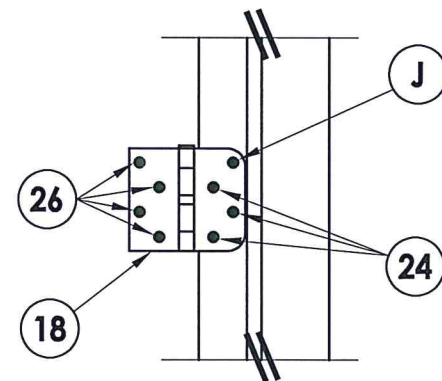
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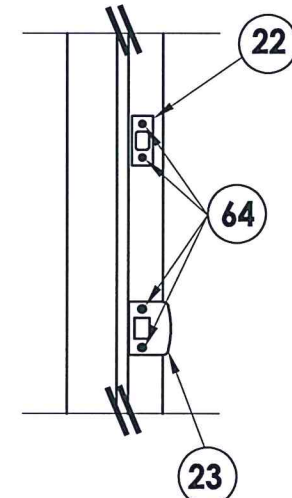
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| 1                 |  | 8/10/2                  |  |



HINGE DETAIL 1



HINGE DETAIL 2



STRIKE PLATE DETAIL



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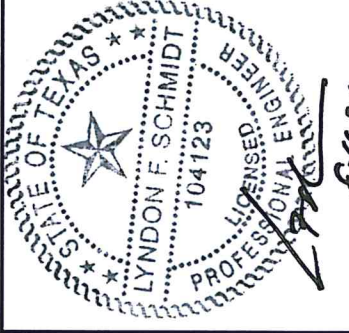
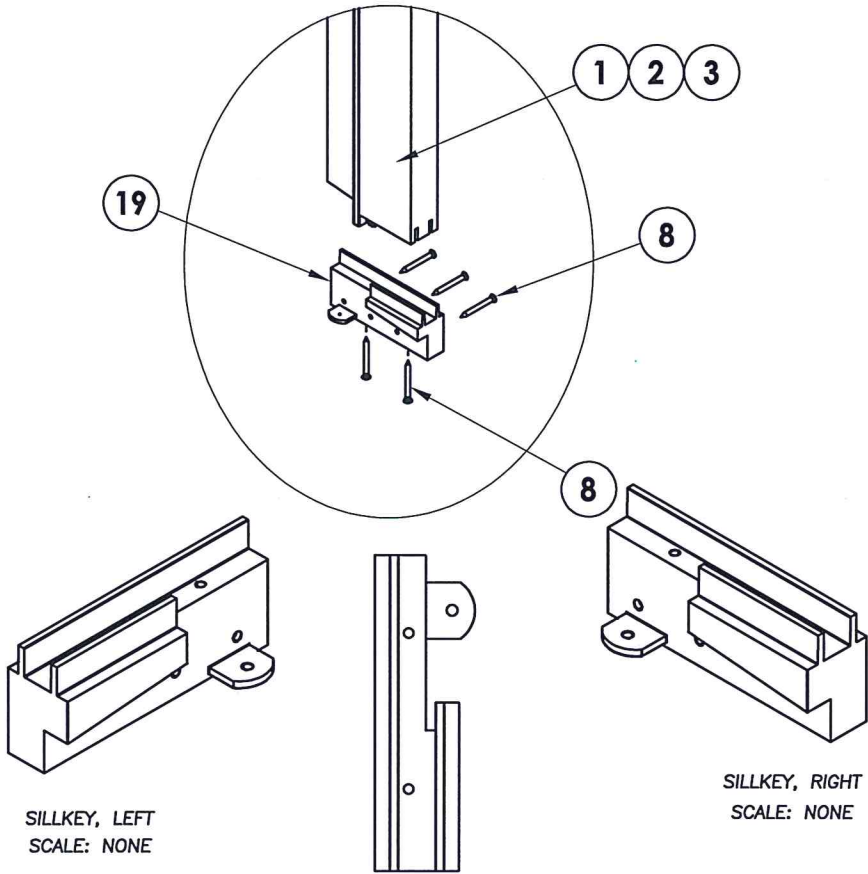
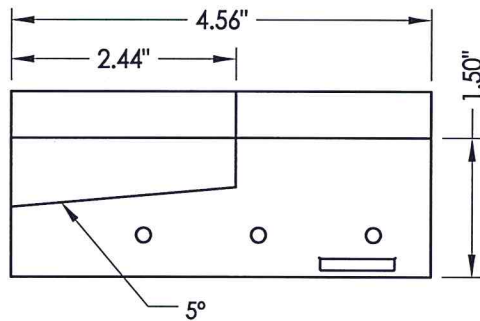
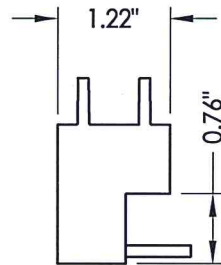
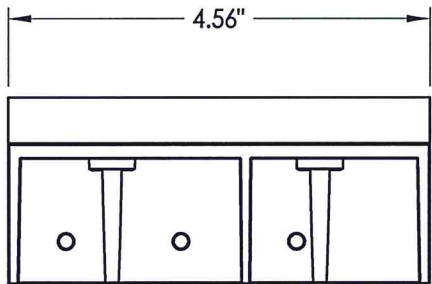
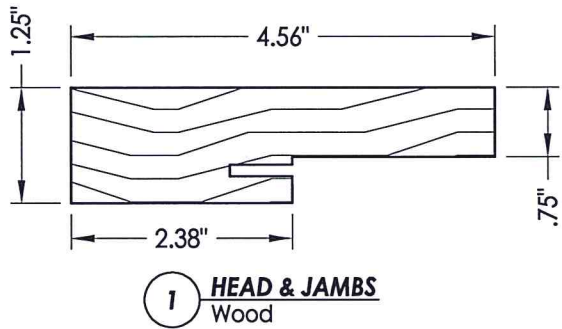
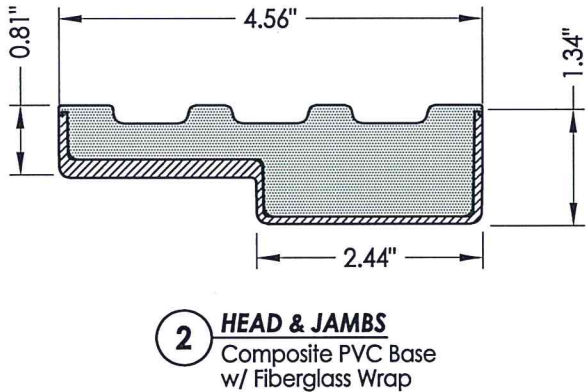
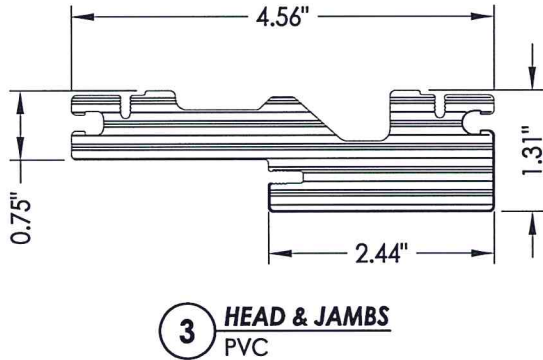
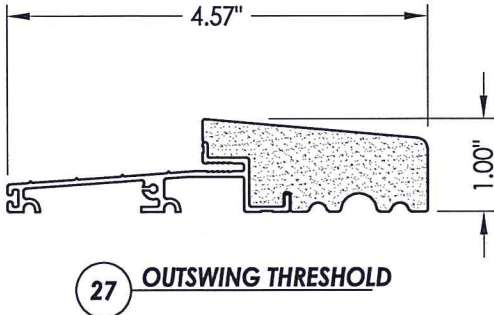
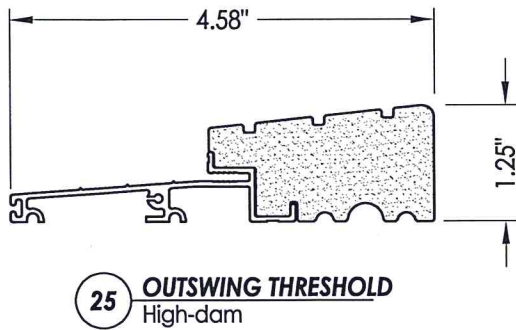
PRODUCT: TRINITY GLASS INT'L

PART OR ASSEMBLY:  
FRAME ANCHORING (X)

| 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-4154  
SHEET 6 OF 8

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|                   |         |                     |              |
|-------------------|---------|---------------------|--------------|
| PRODUCT:          |         | TRINITY GLASS INT'L |              |
| PART OR ASSEMBLY: |         | COMPONENTS          |              |
| DATE:             | 5/10/12 | NO.                 | 1            |
| SCALE:            | N.T.S.  | DATE                | 8/10/21      |
| DWG. BY:          | JK      | BY                  | LFS          |
| CHK. BY:          | LFS     | REVISIONS           |              |
| DRAWING NO.:      | TX-4154 | UPDATE TO           | 2018 IBC/IRC |
| SHEET             | 7       | OF                  | 8            |

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

| 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           |
| P                 | #10 X 3" PFH WS                                                   | STEEL           |
| 1                 | HEAD & JAMBS (FINGER-JOINT PINE: G >= 0.42)                       | WOOD            |
| 2                 | HEAD & JAMBS (FIBERGLASS/COMPOSITE)                               | FIBERGLASS/COMP |
| 3                 | HEAD & JAMBS (PVC)                                                | 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 | -               |
| 41                | DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS | -               |
| 64                | #8 X 2" PFH WOOD SCREW                                            | STEEL           |

### 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.  
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L

**PART OR ASSEMBLY:**

|           |         |                        |     |
|-----------|---------|------------------------|-----|
| 1         | 8/10/21 | UPDATE TO 2018 IBC/IRC | LFS |
| NO.       | DATE    |                        | BY  |
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SHEET 8 OF 8