

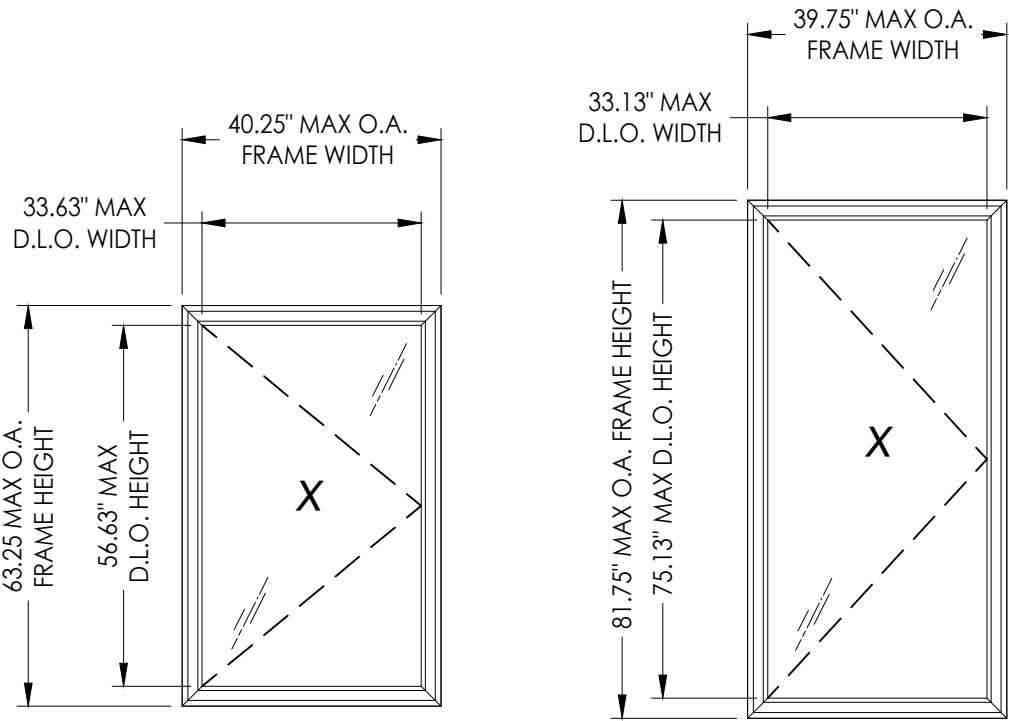


Series 350-T  
Aluminum Casement Window  
w/ Thermal Break Frame  
"NON-IMPACT"

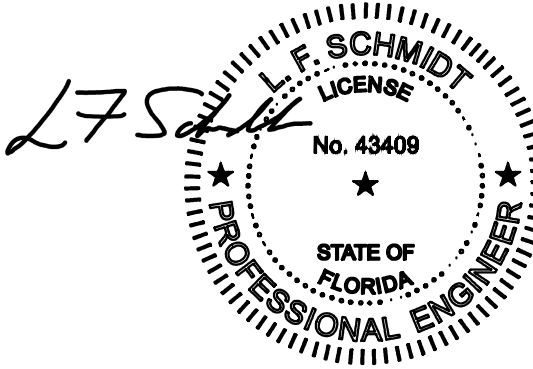
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

| TABLE OF CONTENTS |                                                        |
|-------------------|--------------------------------------------------------|
| SHEET#            | DESCRIPTION                                            |
| 1                 | Typical elevations, design pressures and general notes |
| 2                 | Elevations                                             |
| 3                 | Horizontal and vertical cross sections                 |
| 4                 | Horizontal and vertical cross sections                 |
| 5                 | Buck and frame anchoring                               |
| 6                 | Buck and frame anchoring                               |
| 7                 | Bill of materials, components and glazing detail       |



| OVERALL<br>FRAME<br>DIMENSION | OVERALL<br>D.L.O.<br>DIMENSION | GLASS TYPE | DESIGN PRESSURE (PSF) |          |
|-------------------------------|--------------------------------|------------|-----------------------|----------|
|                               |                                |            | POSITIVE              | NEGATIVE |
| 40.25" X 63.25"               | 33.63" X 56.63"                | G1         | +65.0                 | -65.0    |
| 39.75" X 81.75"               | 33.13" X 75.13"                | G1         | +65.0                 | -65.0    |



Digitally signed by Lyndon F Schmidt  
Date: 2023.07.12 09:54:45 -04'00'

This item has been digitally signed and sealed by  
L. F. Schmidt, P.E. on the date adjacent to the seal.  
Printed copies of this document are not  
considered signed and sealed and the signature  
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID  
ONLY FOR THE STATE OF FLORIDA

Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

PRODUCT:  
FLEETWOOD WINDOWS AND DOORS

LFS  
LFS  
DAC  
LFS  
LFS  
LFS  
BY

7/12/23  
12/7/21  
8/06/20  
8/07/17  
8/22/16  
1/22/15  
NO

UPDATE TO 8TH ED. (2023)  
SERIES NAME CHANGE  
UPDATE TO 7TH ED. (2020)  
UPDATE TO 6TH ED. (2017)  
RENUMBER DRAWINGS  
UPDATE TO 5TH ED. (2014)  
DATE

FBC  
FBC  
FBC  
FBC  
FBC  
FBC  
BY

REVISIONS

DATE: 10/23/13

SCALE: N.T.S.

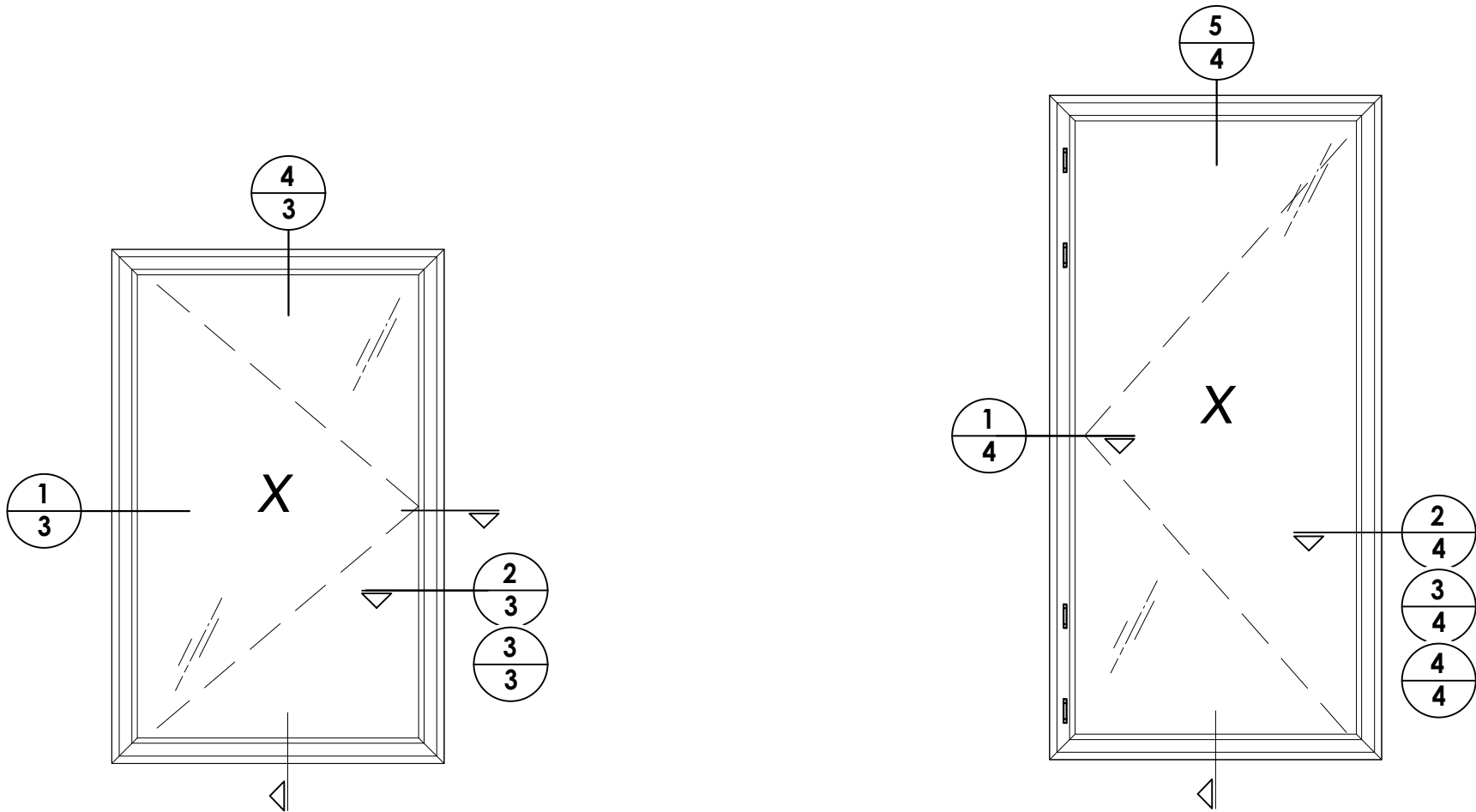
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:  
FL-14904.8

SHEET 1 OF 7

RW  
BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813



| HARDWARE TABLE |             |          |                                                                                           |
|----------------|-------------|----------|-------------------------------------------------------------------------------------------|
| HINGE          |             |          |                                                                                           |
| Qty.           | Description | Height   | Snubbers                                                                                  |
| 4              | Butt hinge  | ≤ 81.75" | Yes (2)                                                                                   |
| 2              | Butt hinge  | ≤ 50"    | Yes (2)                                                                                   |
| 2              | 4 Bar hinge | ≤ 65"    | Yes (3)                                                                                   |
| HANDLES        |             |          |                                                                                           |
| Points         | Description | Height   | *Cam locks can be used in conjunction with multipoint lock or in lieu of multipoint locks |
| 4              | Multipoint  | > 72"    |                                                                                           |
| 3              | Multipoint  | ≤ 72"    |                                                                                           |
| Qty.           |             |          |                                                                                           |
| 3              | Cam*        | ≤ 65"    |                                                                                           |
| 1              | Cam*        | ≤ 50"    |                                                                                           |

Documents Prepared By:  
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P.E. No. 43409

FLEETWOOD WINDOWS AND DOORS

PART OR ASSEMBLY:  
ELEVATIONS

6

7/12/23

UPDATE TO 8TH ED.

(2023)

FBC

5

12/7/21

SERIES NAME CHANGE

4

8/06/20

UPDATE TO 7th ED.

(2020)

FBC

3

8/07/17

UPDATE TO 6TH ED.

(2017)

FBC

2

8/22/16

RENUMBER DRAWINGS

1

8/06/17

UPDATE TO 5TH ED.

(2014)

FBC

NO.

DATE

REVISIONS

BY

DATE: 10/23/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-14904.8

SHEET 2 OF 7

RW

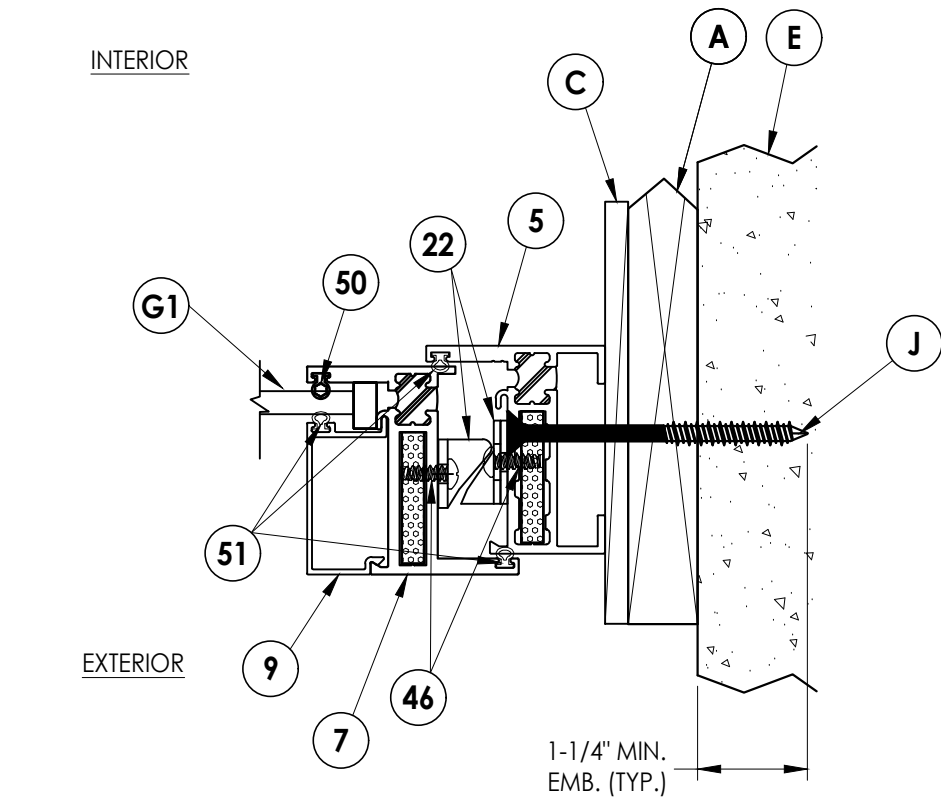
BUILDING CONSULTANTS, INC.

P.O. Box 230, Valrico, FL 33595

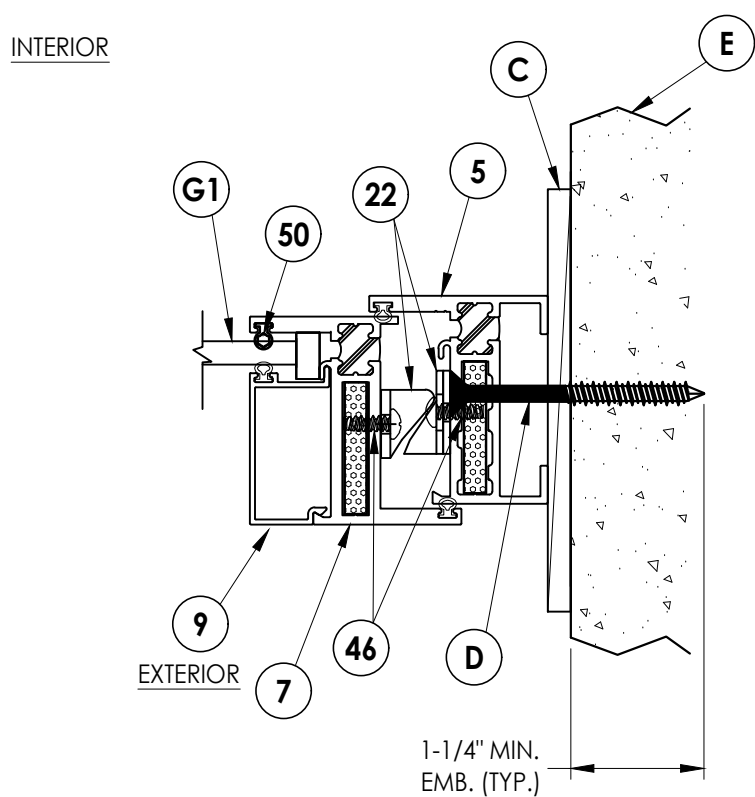
Phone No.: 813.659.9197

FBPE Registry No. 9813

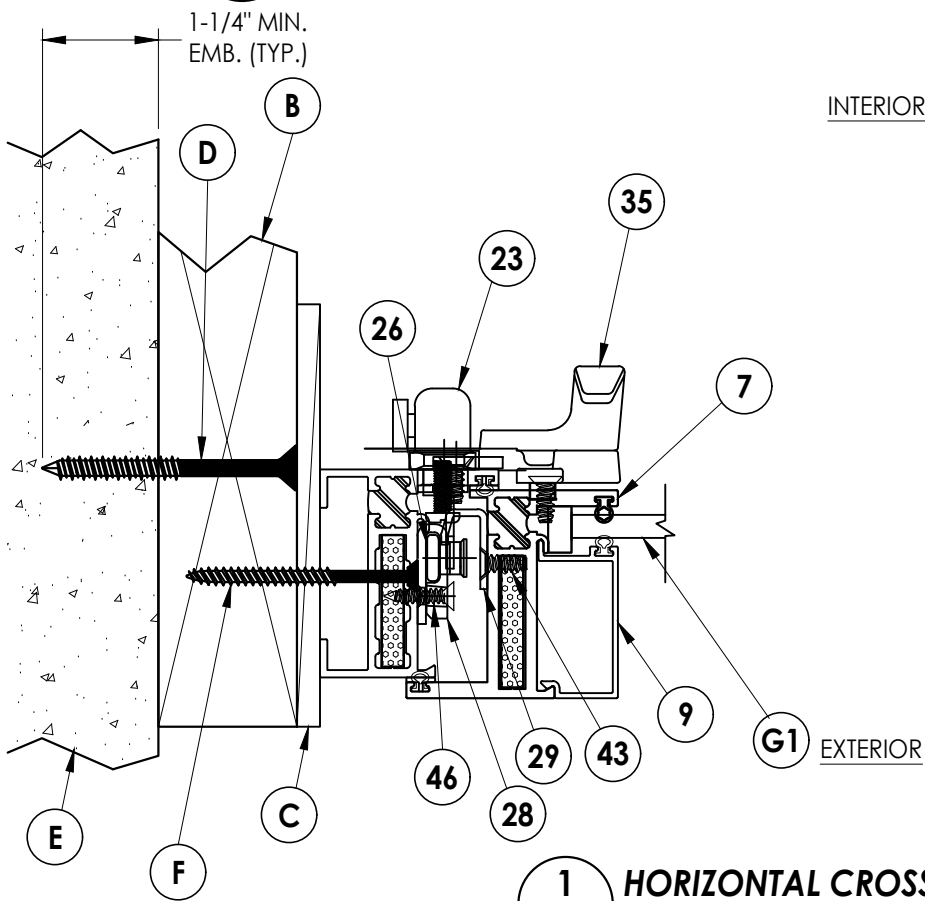
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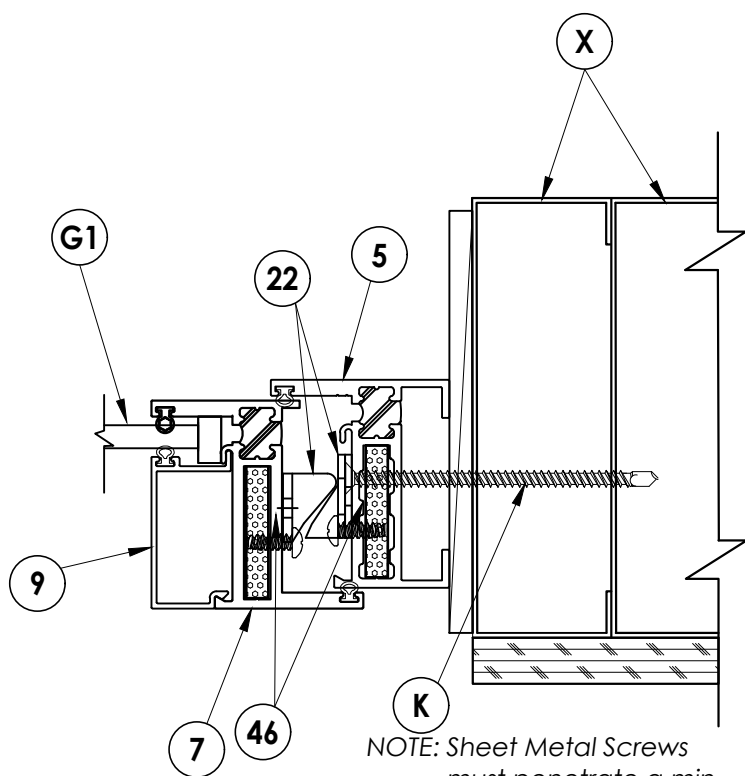
**2** **HORIZONTAL CROSS SECTION**  
**3** Shown w/ 1X Sub buck option



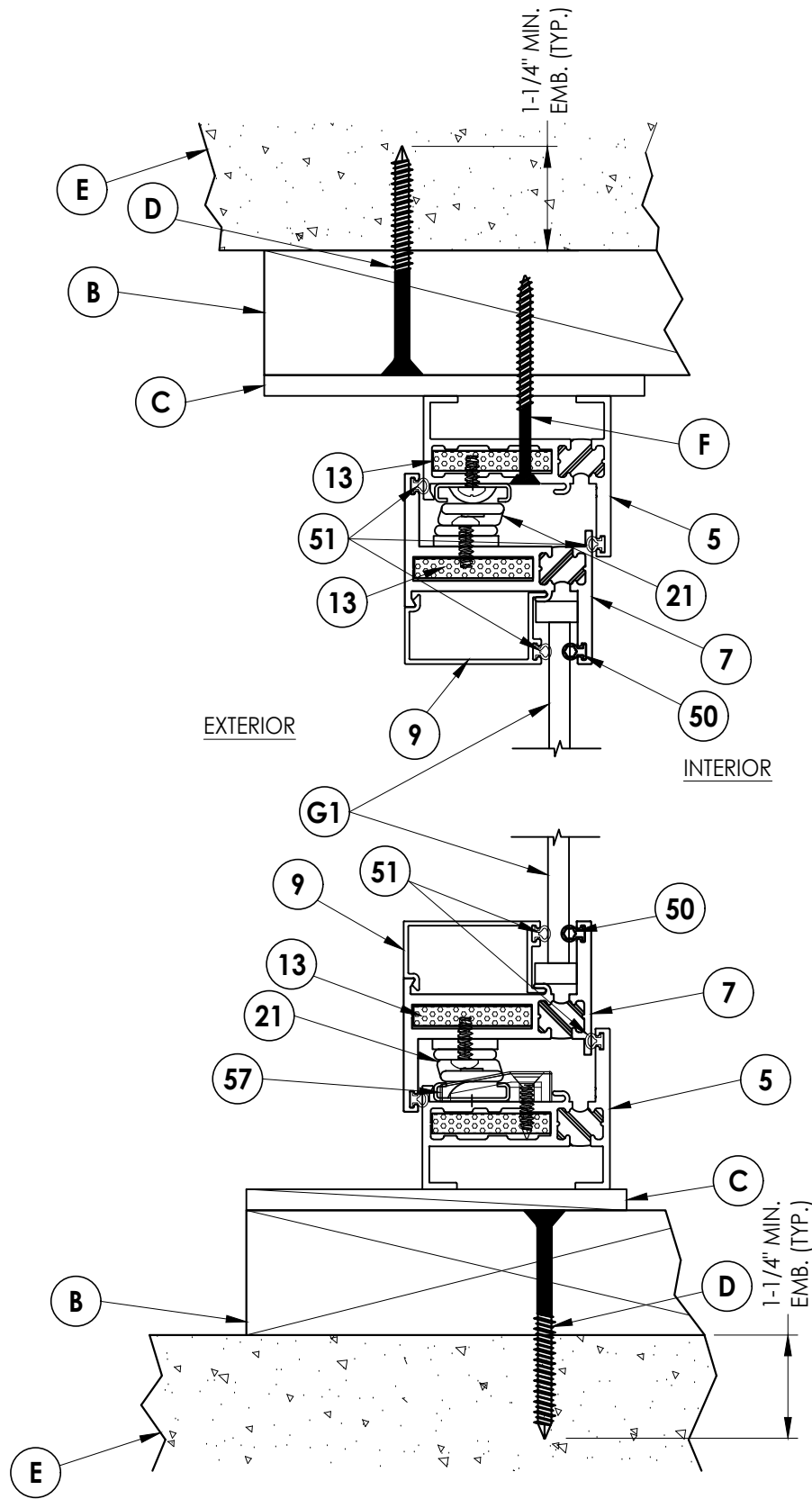
**3** **HORIZONTAL CROSS SECTION**  
**3** Shown w/ Direct to Masonry option



**1** **HORIZONTAL CROSS SECTION**  
**3** Show w/ 2X Buck and Steel Stud options



NOTE: Sheet Metal Screws  
must penetrate a min.  
of 3 threads through  
at least two (2) sheets  
of metal.



**4** **VERTICAL CROSS SECTION**  
**3** Shown w/ 2X Buck Construction

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PRODUCT:  
FLEETWOOD WINDOWS AND DOORS

**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

PART OR ASSEMBLY:  
HORIZONTAL AND VERTICAL  
CROSS SECTIONS

| NO. | DATE    | REVISIONS          |     |     |        |        |
|-----|---------|--------------------|-----|-----|--------|--------|
|     |         | BY                 | LFS | FBC | (2014) | (2017) |
| 6   | 7/12/23 | UPDATE TO 8TH ED.  | LFS | FBC | (2023) |        |
| 5   | 12/7/21 | SERIES NAME CHANGE | LFS | FBC |        |        |
| 4   | 8/06/20 | UPDATE TO 7th ED.  | DAC | FBC | (2020) |        |
| 3   | 8/07/17 | UPDATE TO 6TH ED.  | LFS | FBC | (2017) |        |
| 2   | 8/22/16 | RENUMBER DRAWINGS  | LFS | FBC |        |        |
| 1   | 8/06/17 | UPDATE TO 5TH ED.  | LFS | FBC | (2014) |        |

DATE: 10/23/13

SCALE: N.T.S.

DWG. BY: JK

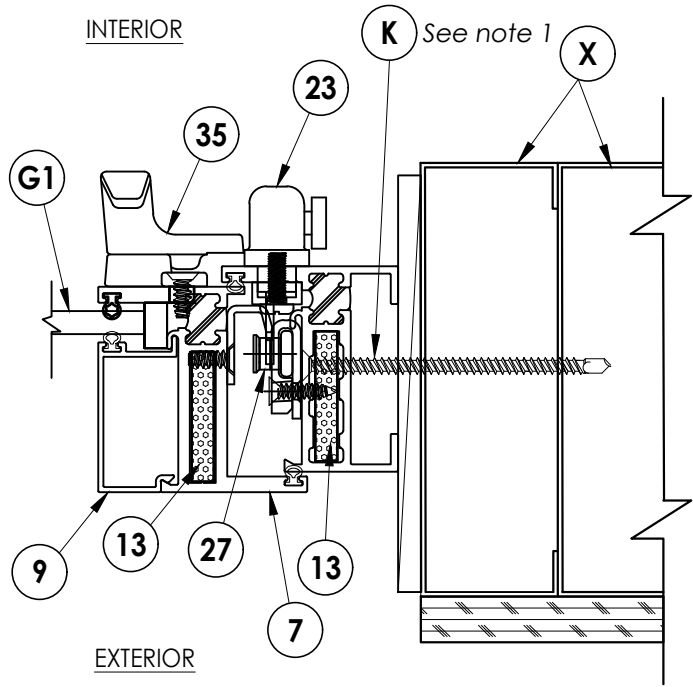
CHK. BY: LFS

DRAWING NO.:

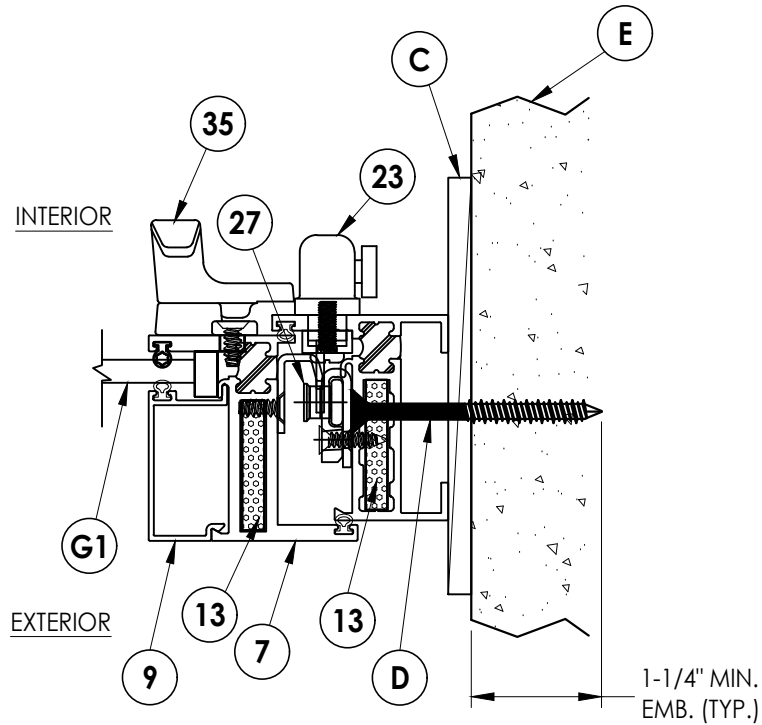
FL-14904.8

SHEET 3 OF 7

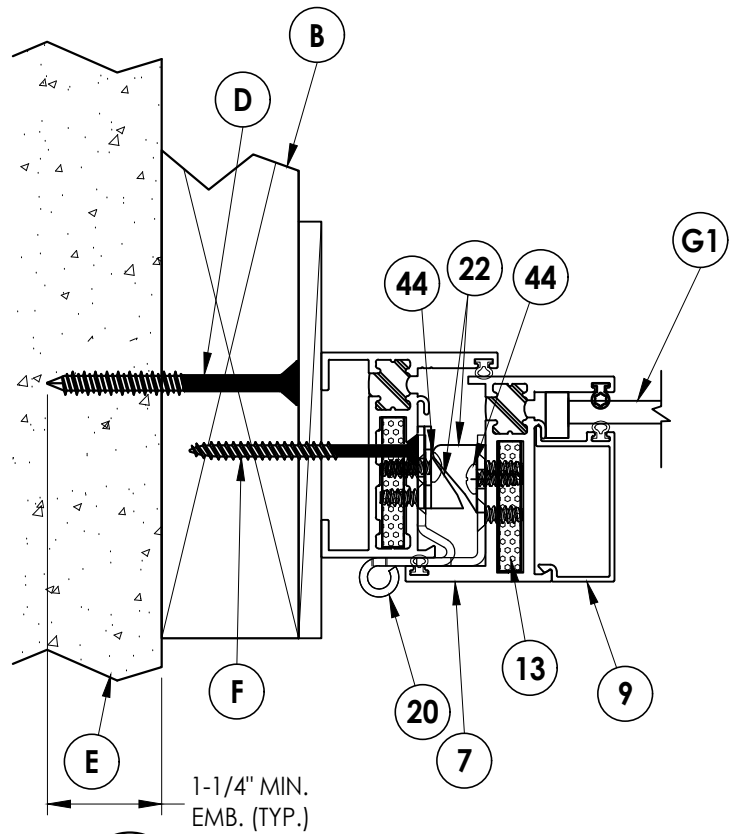
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**3** **HORIZONTAL CROSS SECTION**  
**4** Shown w/ Steel Stud option



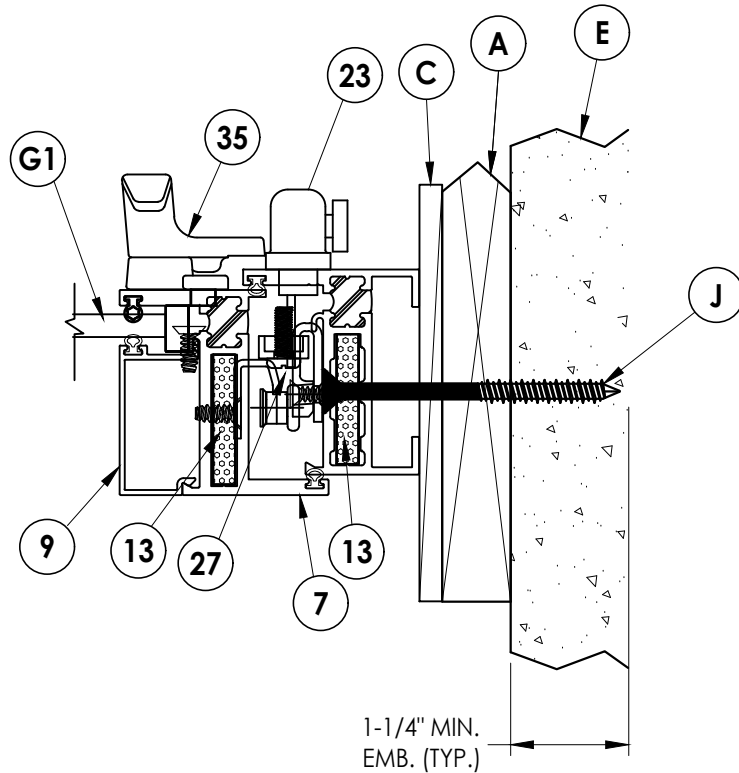
**4** **HORIZONTAL CROSS SECTION**  
**4** Shown w/ Direct to Masonry option



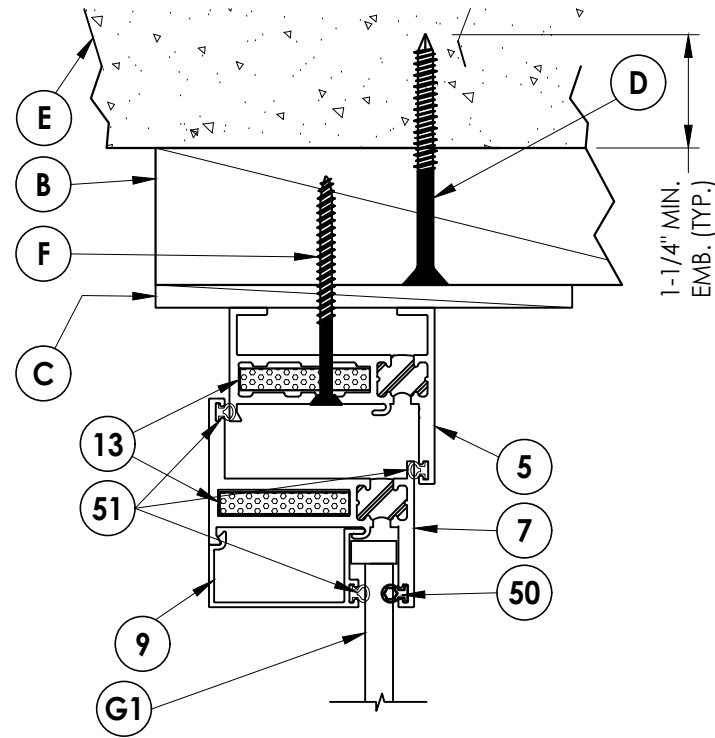
**1** **HORIZONTAL CROSS SECTION**  
**4** Shown w/ 2X Buck Construction

NOTE:

1. Sheet Metal Screws must penetrate a min. of 3 threads through at least two (2) sheets of metal.

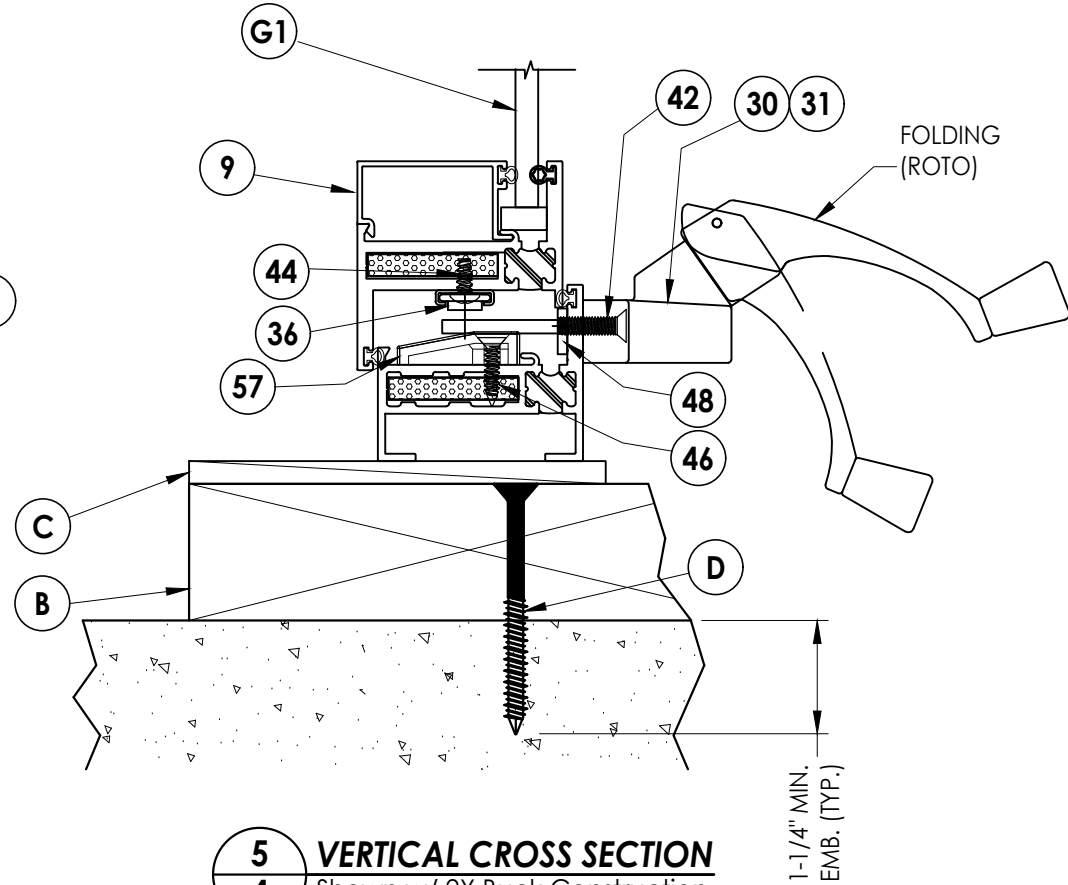


**2** **HORIZONTAL CROSS SECTION**  
**4** Shown w/ 1X Sub buck option



EXTERIOR

INTERIOR



**5** **VERTICAL CROSS SECTION**  
**4** Shown w/ 2X Buck Construction

Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

PRODUCT:  
FLEETWOOD WINDOWS AND DOORS

PART OR ASSEMBLY:  
HORIZONTAL AND VERTICAL  
CROSS SECTIONS

| NO. | DATE    | BY  |
|-----|---------|-----|
| 6   | 7/12/23 | LFS |
| 5   | 12/7/21 | LFS |
| 4   | 8/06/20 | DAC |
| 3   | 8/07/17 | LFS |
| 2   | 8/22/16 | LFS |
| 1   | 8/06/17 | LFS |

DATE: 10/23/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

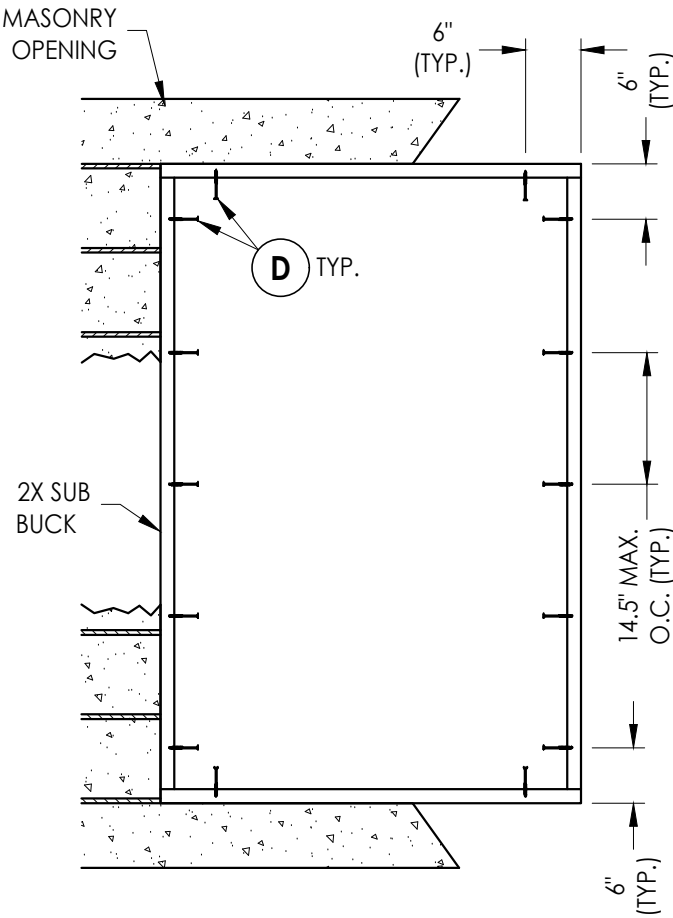
DRAWING NO.:

FL-14904.8

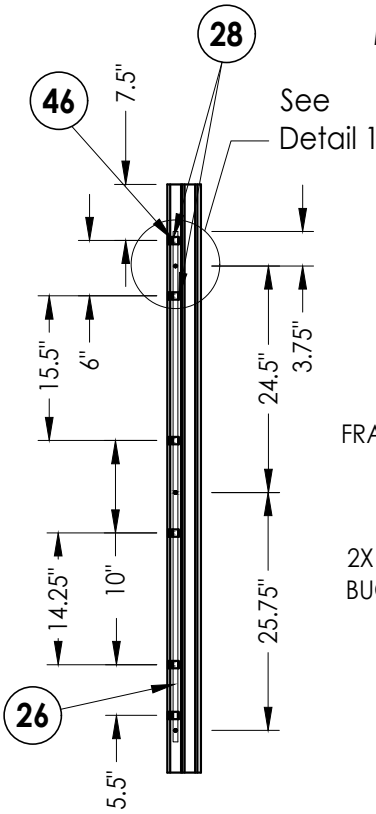
SHEET 4 OF 7

BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

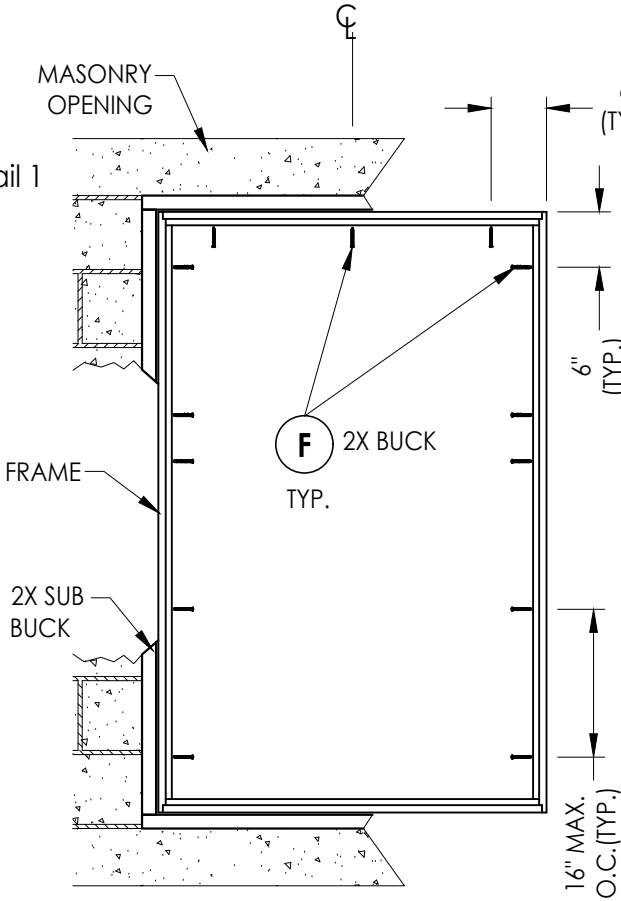
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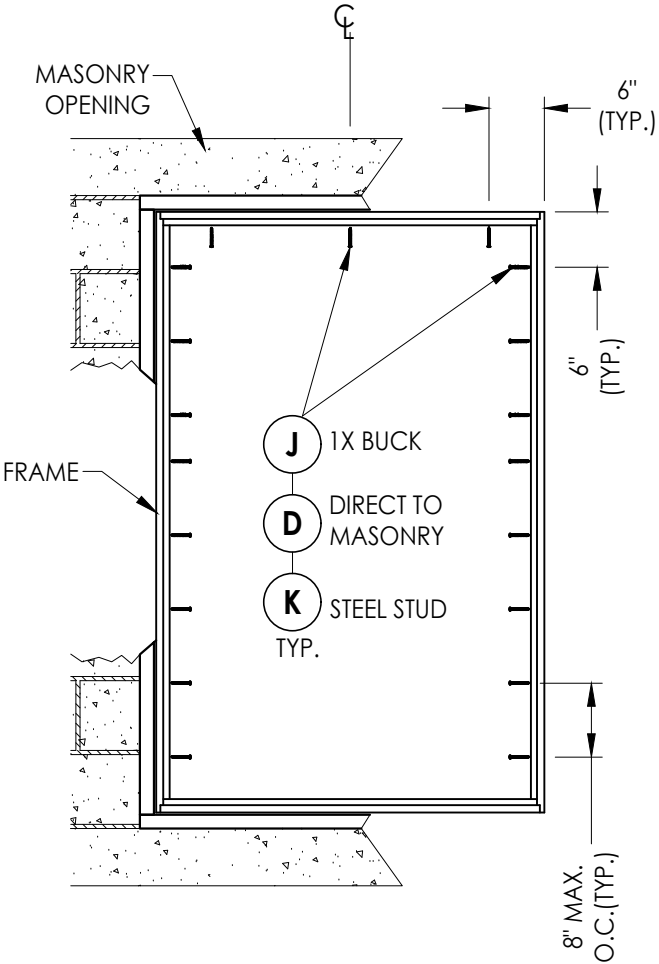
**2X BUCK ANCHORING**  
40.25" X 63.25" Max Size



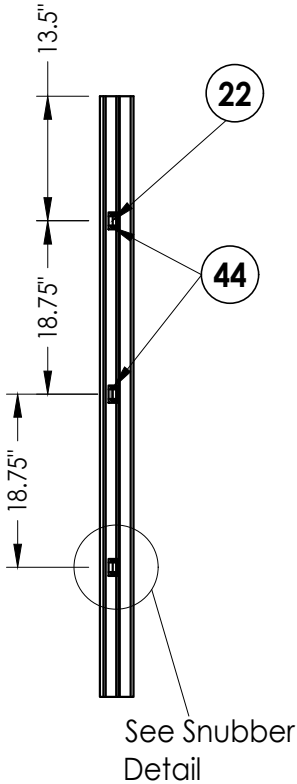
**LOCK JAMB**  
Locking Points (3)



**FRAME MOUNT ANCHORING**  
40.25" X 63.25" Max Size  
(2X BUCK)



**FRAME MOUNT ANCHORING**  
40.25" X 63.25" Max Size  
(1X BUCK, DIR. TO MASONRY, STEEL STUD)



**SNUBBERS JAMB**

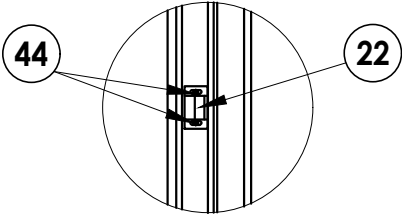
**CONCRETE ANCHOR NOTES:**

- 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:

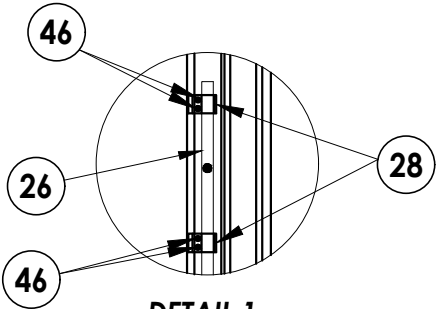
| ANCHOR TYPE      | ANCHOR SIZE | MIN. EMBEDMENT | MIN. CLEARANCE TO MASONRY EDGE | MIN. CLEARANCE TO ADJACENT ANCHOR |
|------------------|-------------|----------------|--------------------------------|-----------------------------------|
| ITW TAPCON®      | 1/4"        | 1-1/4"         | 2"                             | 4"                                |
| DeWALT ULTRACON® | 1/4"        | 1-1/4"         | 1"                             | 4"                                |

**WOOD SCREW INSTALLATION NOTES:**

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



**SNUBBER DETAIL**



**DETAIL 1**

Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

PRODUCT:  
FLEETWOOD WINDOWS AND DOORS

PART OR ASSEMBLY:  
BUCK & FRAME ANCHORING

| NO. | DATE    | REVISIONS                    |
|-----|---------|------------------------------|
| 6   | 7/12/23 | UPDATE TO 8TH ED. (2023) FBC |
| 5   | 12/7/21 | SERIES NAME CHANGE           |
| 4   | 8/06/20 | UPDATE TO 7TH ED. (2020) FBC |
| 3   | 8/07/17 | UPDATE TO 6TH ED. (2017) FBC |
| 2   | 8/22/16 | RENUMBER DRAWINGS            |
| 1   | 1/22/15 | UPDATE TO 5TH ED. (2014) FBC |

DATE: 10/23/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

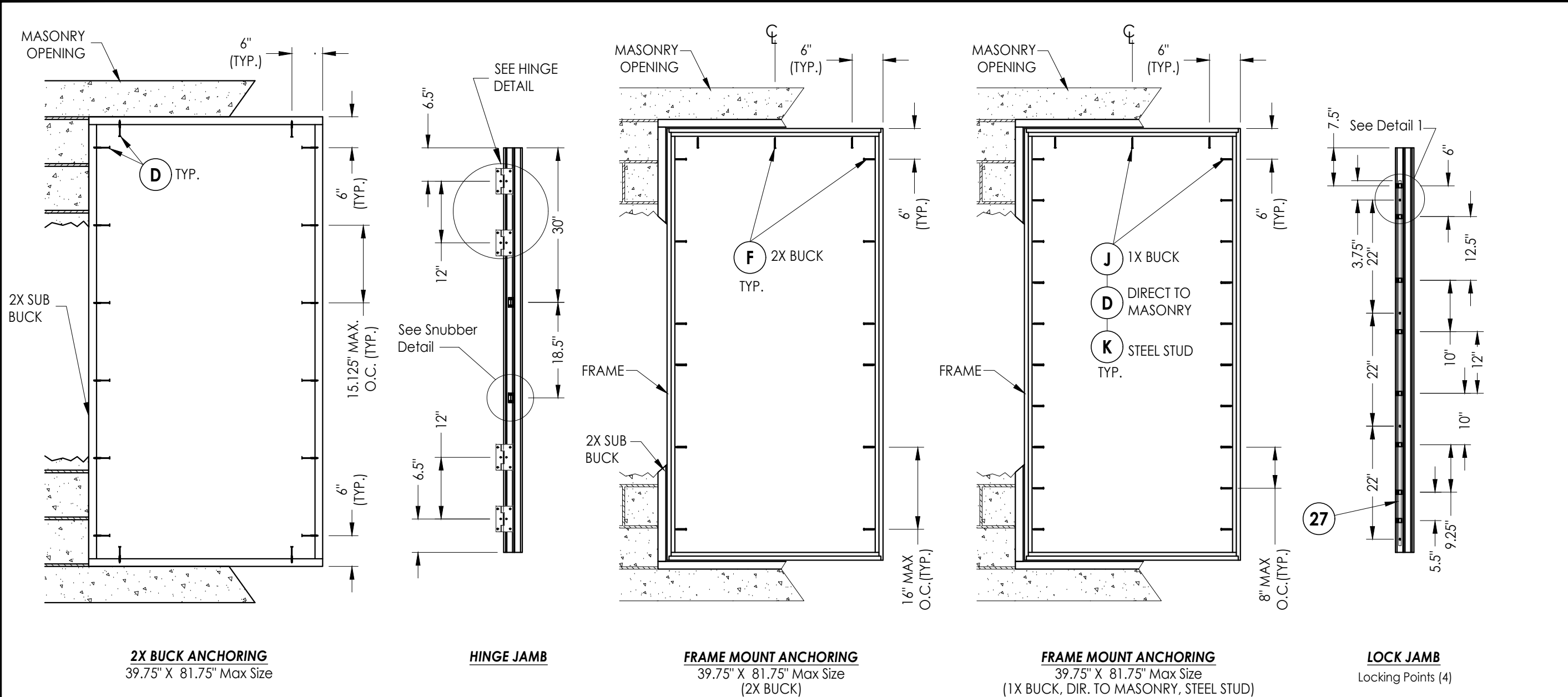
DRAWING NO.:

FL-14904.8

SHEET 5 OF 7

**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

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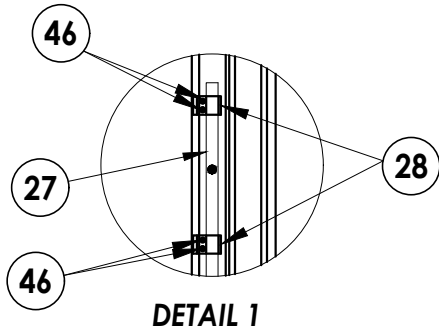
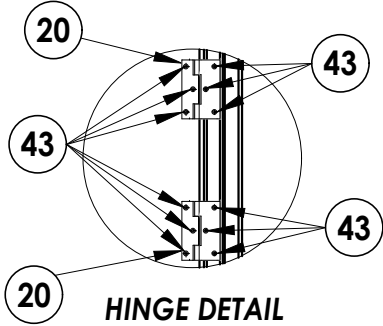
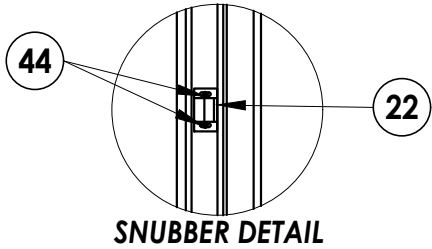
CONCRETE ANCHOR NOTES:

- 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 TAPCON®      | 1/4"        | 1-1/4"         | 2"                             | 4"                                |
| DeWALT ULTRACON® | 1/4"        | 1-1/4"         | 1"                             | 4"                                |

WOOD SCREW INSTALLATION NOTES:

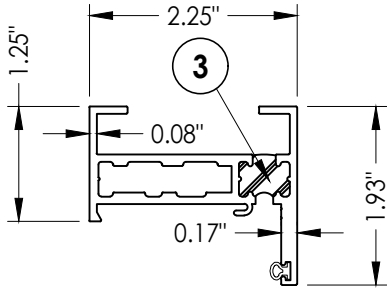
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



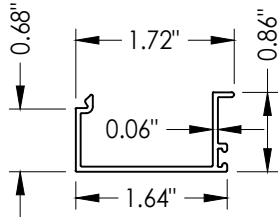
|                                                               |         |                          |     |                                                                                                                    |           |  |  |
|---------------------------------------------------------------|---------|--------------------------|-----|--------------------------------------------------------------------------------------------------------------------|-----------|--|--|
| Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409 |         |                          |     | BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |           |  |  |
| PRODUCT:<br>FLEETWOOD WINDOWS AND DOORS                       |         |                          |     | PART OR ASSEMBLY:<br>BUCK & FRAME<br>ANCHORING                                                                     |           |  |  |
| 6                                                             | 7/12/23 | UPDATE TO 8TH ED. (2023) | FBC | LFS                                                                                                                | REVISIONS |  |  |
| 5                                                             | 12/7/21 | SERIES NAME CHANGE       |     | LFS                                                                                                                |           |  |  |
| 4                                                             | 8/06/20 | UPDATE TO 7TH ED. (2020) | FBC | DAC                                                                                                                |           |  |  |
| 3                                                             | 8/07/17 | UPDATE TO 6TH ED. (2017) | FBC | LFS                                                                                                                |           |  |  |
| 2                                                             | 8/22/16 | RENUMBER DRAWINGS        |     | LFS                                                                                                                |           |  |  |
| 1                                                             | 1/22/15 | UPDATE TO 5TH ED. (2014) | FBC | LFS                                                                                                                |           |  |  |
| NO.                                                           | DATE    |                          |     | BY                                                                                                                 |           |  |  |
| DATE: 10/23/13                                                |         |                          |     |                                                                                                                    |           |  |  |
| SCALE: N.T.S.                                                 |         |                          |     |                                                                                                                    |           |  |  |
| DWG. BY: JK                                                   |         |                          |     |                                                                                                                    |           |  |  |
| CHK. BY: LFS                                                  |         |                          |     |                                                                                                                    |           |  |  |
| DRAWING NO.: FL-14904.8                                       |         |                          |     |                                                                                                                    |           |  |  |
| SHEET 6 OF 7                                                  |         |                          |     |                                                                                                                    |           |  |  |

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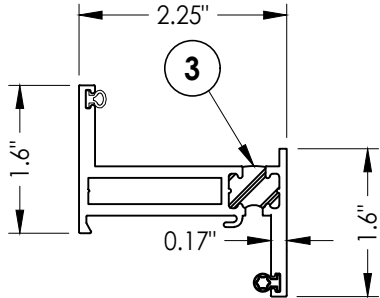
| BILL OF MATERIALS |                                                                                                |              |
|-------------------|------------------------------------------------------------------------------------------------|--------------|
| ITEM #            | DESCRIPTION                                                                                    | MATERIAL     |
| A                 | 1X BUCK SG >= 0.55                                                                             | WOOD         |
| B                 | 2X BUCK SG >= 0.55                                                                             | WOOD         |
| C                 | 1/4" MAX. SHIM SPACE                                                                           | -            |
| D                 | 1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW                                                 | STEEL        |
| E                 | MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90 | CONCRETE     |
| F                 | #10 X 2-1/2" PPH WOOD SCREW (1-1/4" MIN. EMBEDMENT)                                            | STEEL        |
| J                 | 1/4" X 3-1/4" DeWALT OR ITW PFH CONCRETE SCREW                                                 | STEEL        |
| K                 | #10 PPH SELF-DRILLING SMS                                                                      | STEEL        |
| X                 | STEEL STUD Min. Thk .033" (ASTM A653 GRADE 33 Fy=33 Ksi Min, Fu=45 Ksi Min)                    | STEEL        |
| 3                 | THERMAL BREAK ("LIQUID POLYURETHANE" by Azon USA, Inc.)                                        | -            |
| 5                 | BLOCK FRAME (350-T)                                                                            | 6063-T6 ALUM |
| 7                 | ZEE BAR (PANEL)                                                                                | 6063-T6 ALUM |
| 9                 | GLASS STOP (1/4")                                                                              | 6063-T6 ALUM |
| 13                | CORNER KEY                                                                                     | 6063-T6 ALUM |
| 20                | SS. BUTT HINGE                                                                                 | SS           |
| 21                | 4 BAR HINGE                                                                                    | SS           |
| 22                | SNUBBER-COMMERCIAL PULL-IN BLOCK                                                               | SS           |
| 23                | MULTIPOINT LOCK HANDLE                                                                         | SS           |
| 26                | 3 POINTS LOCKING BAR (TRUTH)                                                                   | SS           |
| 27                | 4 POINTS LOCKING BAR (TRUTH)                                                                   | SS           |
| 28                | TIE BAR GUIDE (TRUTH)                                                                          | -            |
| 29                | KEEPER (TRUTH)                                                                                 | SS           |
| 30                | CASEMENT ROTOR GEAR 13.5" (TRUTH)                                                              | SS           |
| 31                | CASEMENT ROTOR GEAR 9.5" (TRUTH)                                                               | SS           |
| 35                | CAM HANDLE / STRIKE PLATE                                                                      | SS           |
| 36                | CASEMENT SS. TRACK (TRUTH)                                                                     | SS           |
| 42                | MACHINGE SCREW NO 10-32, FHP .75"                                                              | STEEL        |
| 43                | SCREW NO 10 , UFHP .5"                                                                         | STEEL        |
| 44                | SCREW NO 8, PHP, .50"                                                                          | STEEL        |
| 46                | SCREW NO 8, FHP, .750"                                                                         | STEEL        |
| 48                | BACK UP NUTS                                                                                   | STEEL        |
| 50                | BULB VINYL (EPDM 70 DUROMETER) - TREMCO                                                        | -            |
| 51                | MINI BULB VINYL (EPDM 70 DUROMETER) - TREMCO                                                   | -            |
| 55                | SETTING BLOCK                                                                                  | -            |
| 57                | PIVOT SHIM                                                                                     | -            |



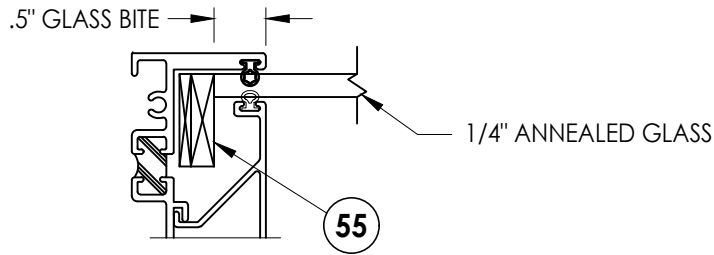
5 BLOCK FRAME



9 GLASS STOP 1/4"



7 ZEE BAR (PANEL)



G1 GLAZING DETAIL

|                                                               |         |                          |     |     |                                                                                                                    |  |  |  |  |
|---------------------------------------------------------------|---------|--------------------------|-----|-----|--------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409 |         |                          |     |     | BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |  |  |  |  |
| PRODUCT:<br>FLEETWOOD WINDOWS AND DOORS                       |         |                          |     |     | PART OR ASSEMBLY:<br>BILL OF MATERIALS, COMPONENTS<br>AND GLAZING DETAIL                                           |  |  |  |  |
| 6                                                             | 7/12/23 | UPDATE TO 8TH ED. (2023) | FBC | LFS | REVISIONS                                                                                                          |  |  |  |  |
| 5                                                             | 12/7/21 | SERIES NAME CHANGE       |     | LFS |                                                                                                                    |  |  |  |  |
| 4                                                             | 8/06/20 | UPDATE TO 7th ED. (2020) | FBC | DAC |                                                                                                                    |  |  |  |  |
| 3                                                             | 8/07/17 | UPDATE TO 6TH ED. (2017) | FBC | LFS |                                                                                                                    |  |  |  |  |
| 2                                                             | 8/22/16 | RENUMBER DRAWINGS        |     | LFS |                                                                                                                    |  |  |  |  |
| 1                                                             | 8/06/17 | UPDATE TO 5TH ED. (2014) | FBC | LFS |                                                                                                                    |  |  |  |  |
| NO.                                                           | DATE    |                          |     | BY  |                                                                                                                    |  |  |  |  |
| DATE: 10/23/13                                                |         |                          |     |     |                                                                                                                    |  |  |  |  |
| SCALE: N.T.S.                                                 |         |                          |     |     |                                                                                                                    |  |  |  |  |
| DWG. BY: JK                                                   |         |                          |     |     |                                                                                                                    |  |  |  |  |
| CHK. BY: LFS                                                  |         |                          |     |     |                                                                                                                    |  |  |  |  |
| DRAWING NO.: FL-14904.8                                       |         |                          |     |     |                                                                                                                    |  |  |  |  |
| SHEET 7 OF 7                                                  |         |                          |     |     |                                                                                                                    |  |  |  |  |