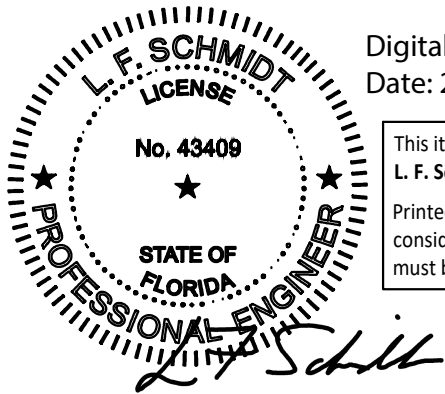
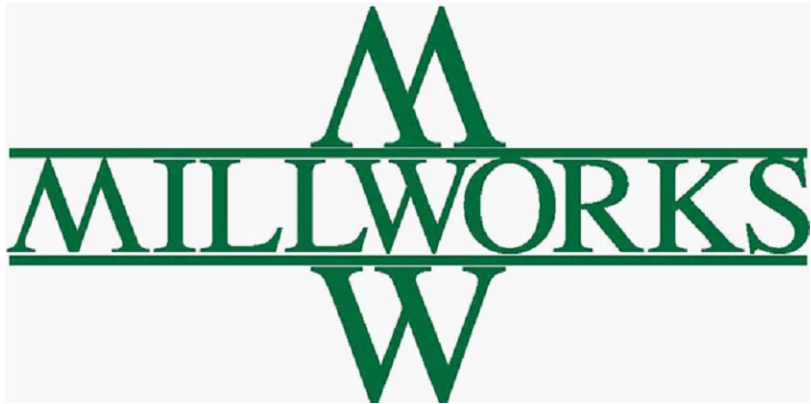




Digitally signed by Lyndon F Schmidt  
Date: 2024.02.20 10:16:03 -05'00'

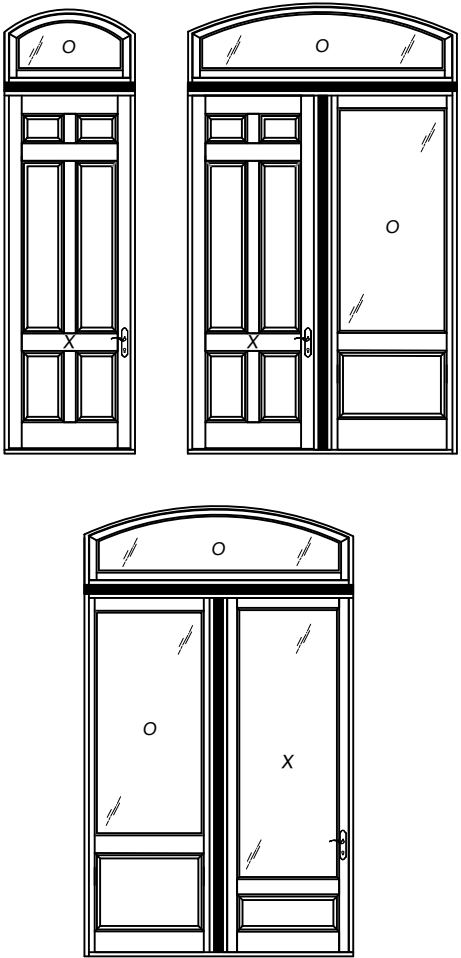
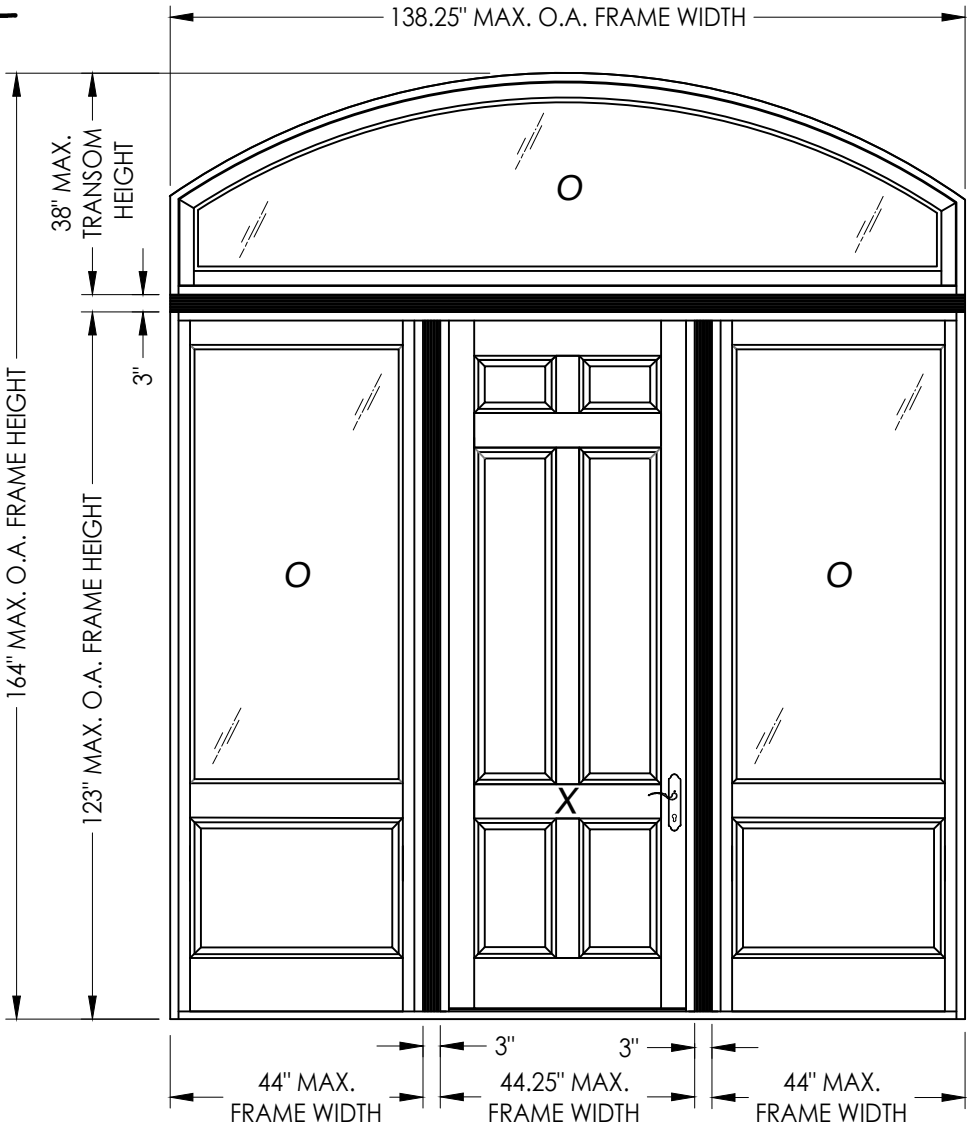
This item has been digitally signed and sealed by  
L. F. Schmidt, P.E. on the date adjacent to the seal.  
Printed copies of this document are not  
considered signed and sealed and the signature  
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID  
ONLY FOR THE STATE OF FLORIDA

OPAQUE or GLAZED WOOD ENTRY DOOR  
SINGLE w/ SIDELITE(S) & TRANSOM  
INSWING  
"IMPACT"

GENERAL NOTES

- 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).
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- When used in areas requiring wind borne debris protection, this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and excludes Wind Zone 4 as defined in ASTM E1996 & FBC Sections 1609.1.2.2 & R301.2.1.2.1.
- For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.



| CONFIGURATION | MAX. FRAME DIMENSION | DESIGN PRESSURE (PSF) INSWING |          |
|---------------|----------------------|-------------------------------|----------|
|               |                      | POSITIVE                      | NEGATIVE |
| O/X           | 44.25" x 150.0"      | +50.0                         | -50.0    |
| O/XO or O/OX  | 91.25" x 157.0"      | +50.0                         | -50.0    |
| O/OXO         | 138.25" x 164.0"     | +50.0                         | -50.0    |

| TABLE OF CONTENTS |                                                          |
|-------------------|----------------------------------------------------------|
| SHEET #           | DESCRIPTION                                              |
| 1                 | Typical Elevations, Design Pressures & General Notes     |
| 2                 | Door Panel Details                                       |
| 3                 | Sidelite & Transom Panel Details                         |
| 4                 | Elevations                                               |
| 5                 | Horizontal & Vertical Cross Sections (2X Buck)           |
| 6                 | Horizontal & Vertical Cross Sections (1X Buck)           |
| 7                 | Horizontal & Vertical Cross Sections (Direct to Masonry) |
| 8                 | Horizontal & Vertical Cross Sections                     |
| 9                 | Vertical Cross Sections                                  |
| 10                | Buck Anchoring                                           |
| 11                | Frame Anchoring & Hardware Details                       |
| 12                | Bill of Materials & Components                           |

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

PRODUCT: MW MILLWORKS WOOD DOOR

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

DATE: 1/23/24

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.: FL-41636.5

SHEET 1 OF 12

REVISIONS

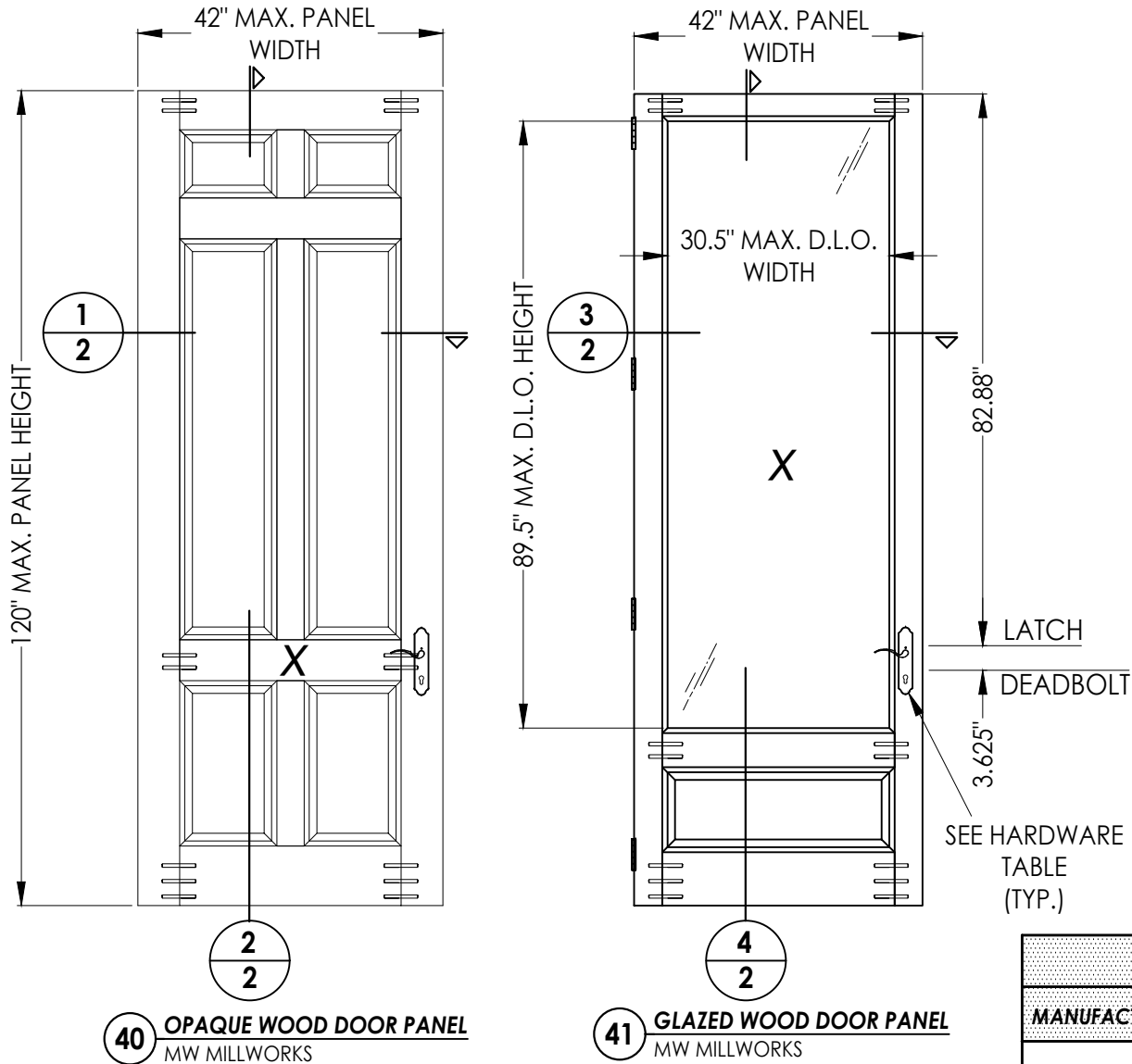
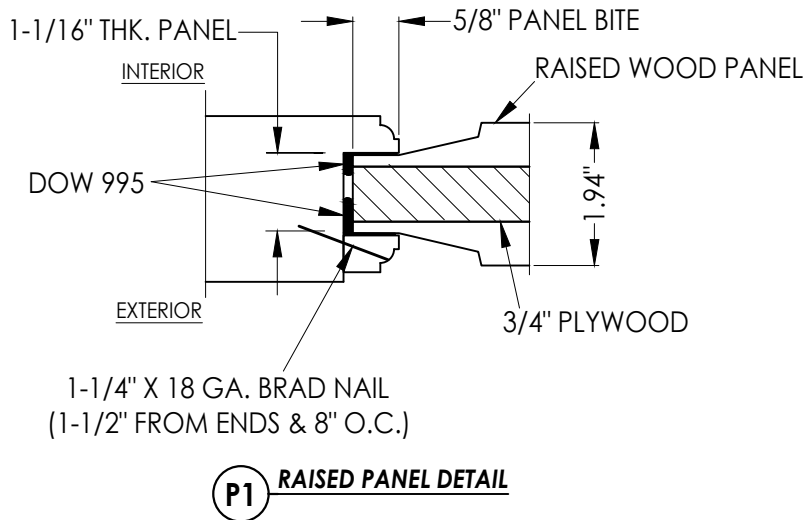
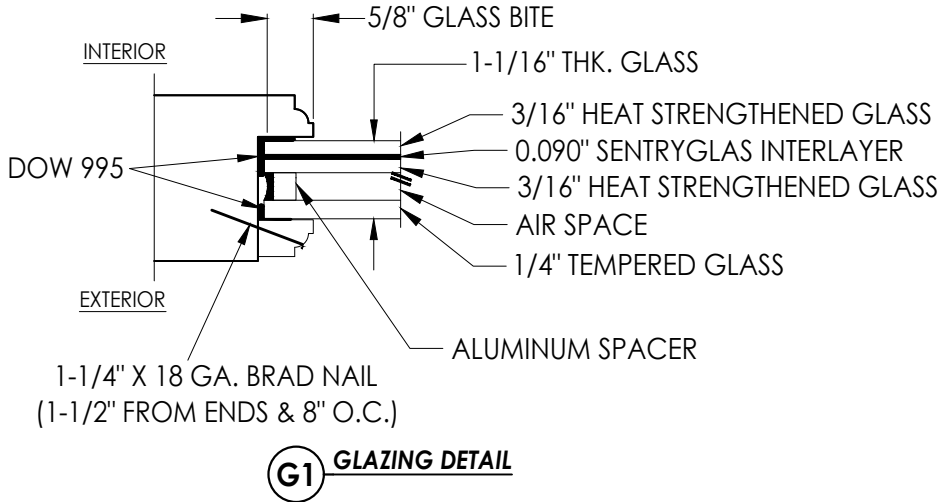
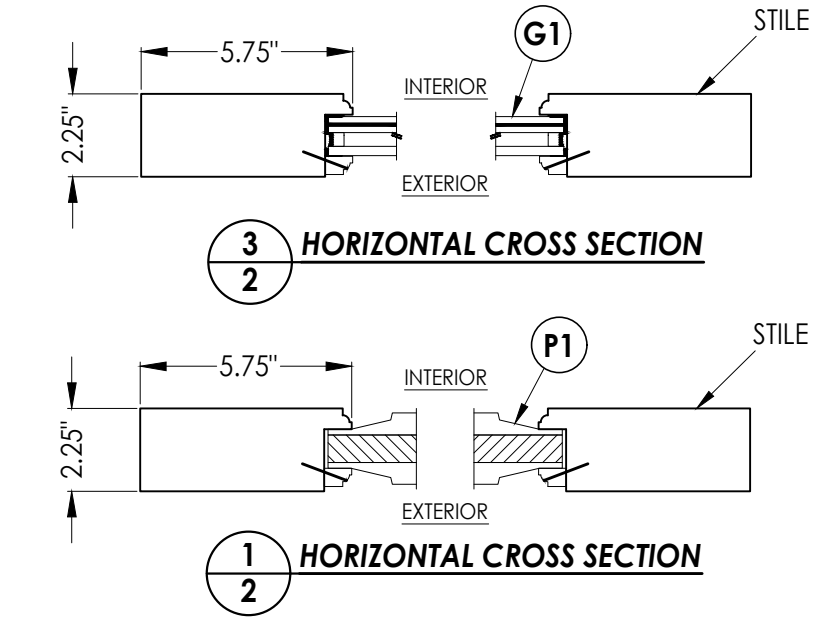
NO. DATE

BY

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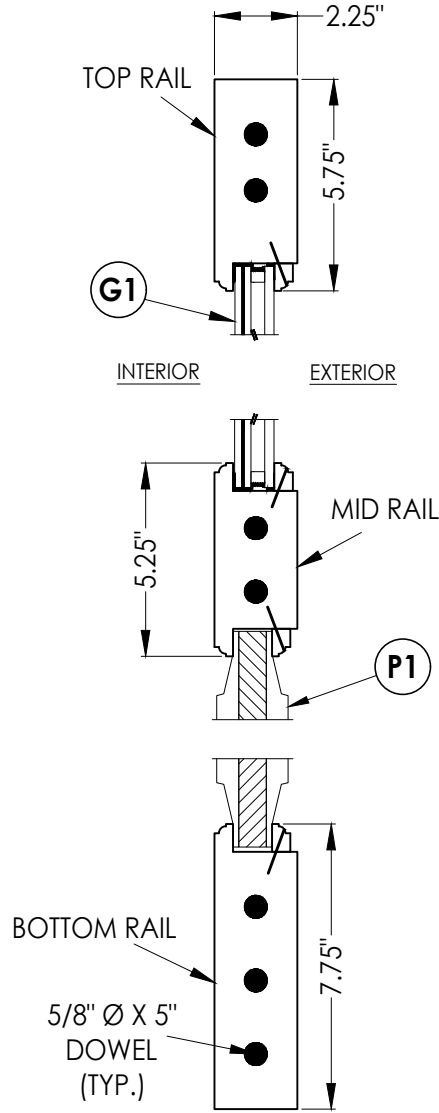
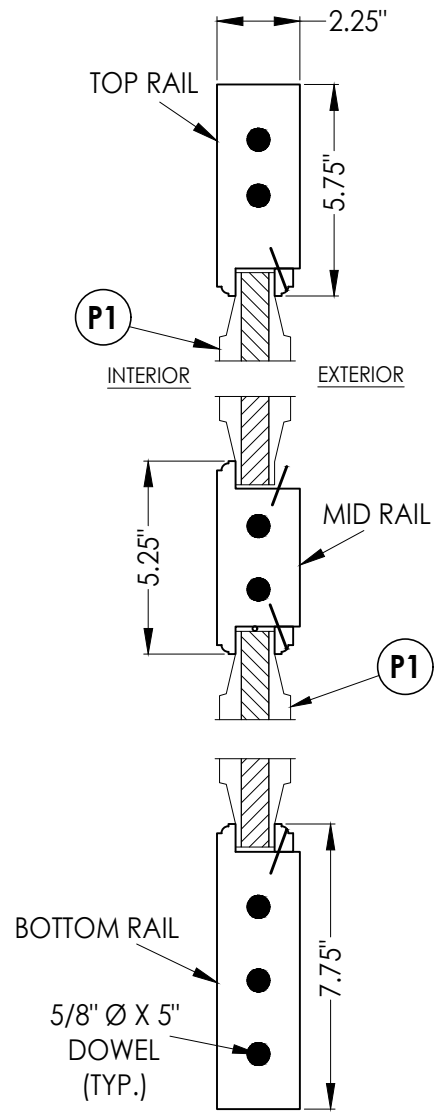
Building Consultants, Inc.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

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WOOD DOOR COMPONENTS:  
POPLAR: (G = 0.43)

| HARDWARE TABLE |                                                                                                          |
|----------------|----------------------------------------------------------------------------------------------------------|
| MANUFACTURER   | MODEL                                                                                                    |
| HOPPE          | HLS 9000 SERIES MULTIPOINT HARDWARE:<br>ACTIVE : TONGUE/SHOOTBOLT (6 PT.)<br>INACTIVE: SHOOTBOLT (2 PT.) |



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

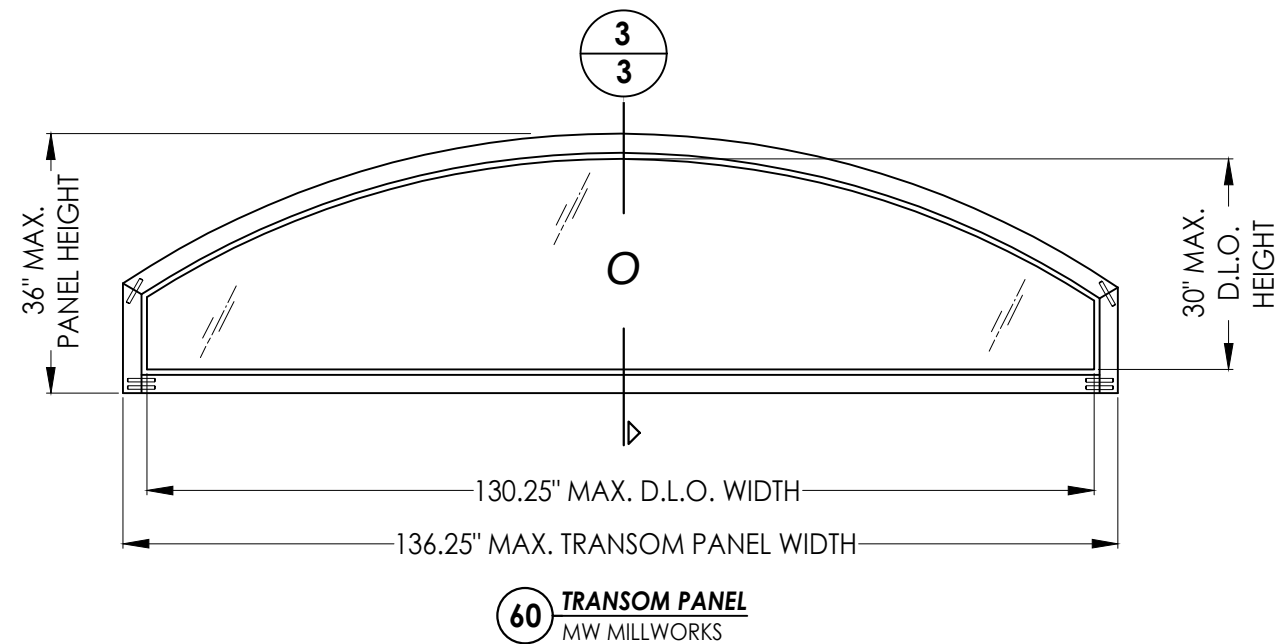
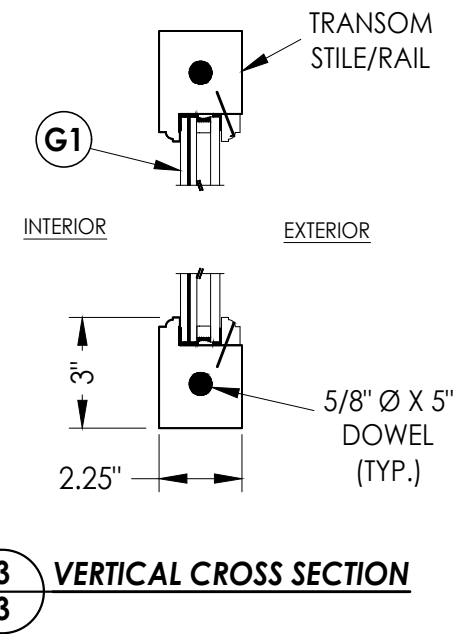
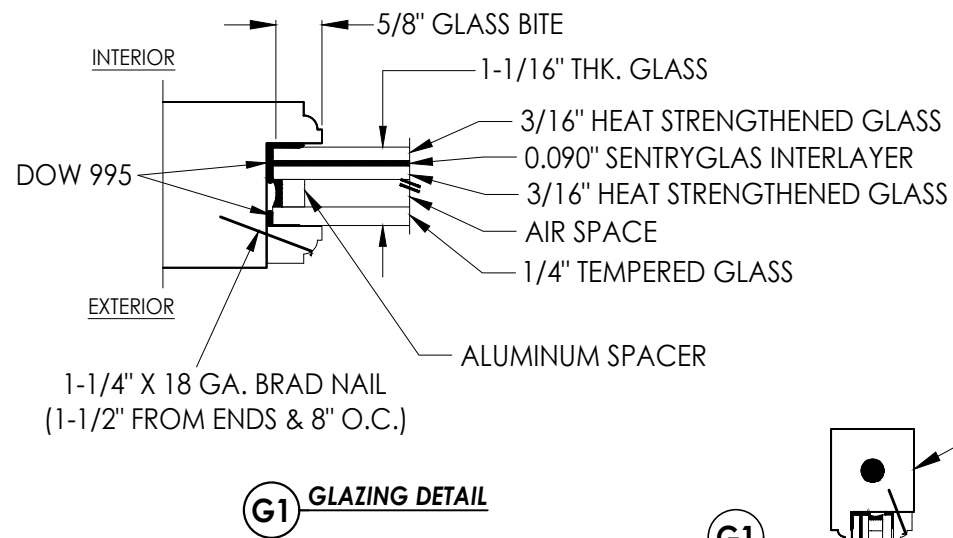
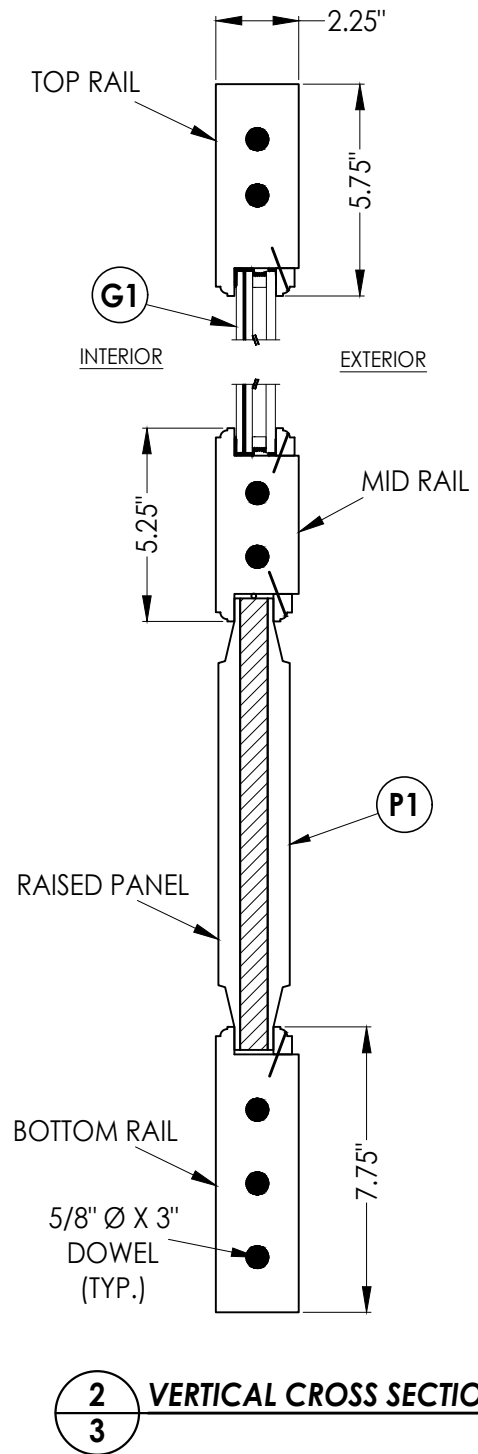
**RW**  
BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

PRODUCT: MW MILLWORKS  
WOOD DOOR

PART OR ASSEMBLY:  
DOOR PANEL DETAILS

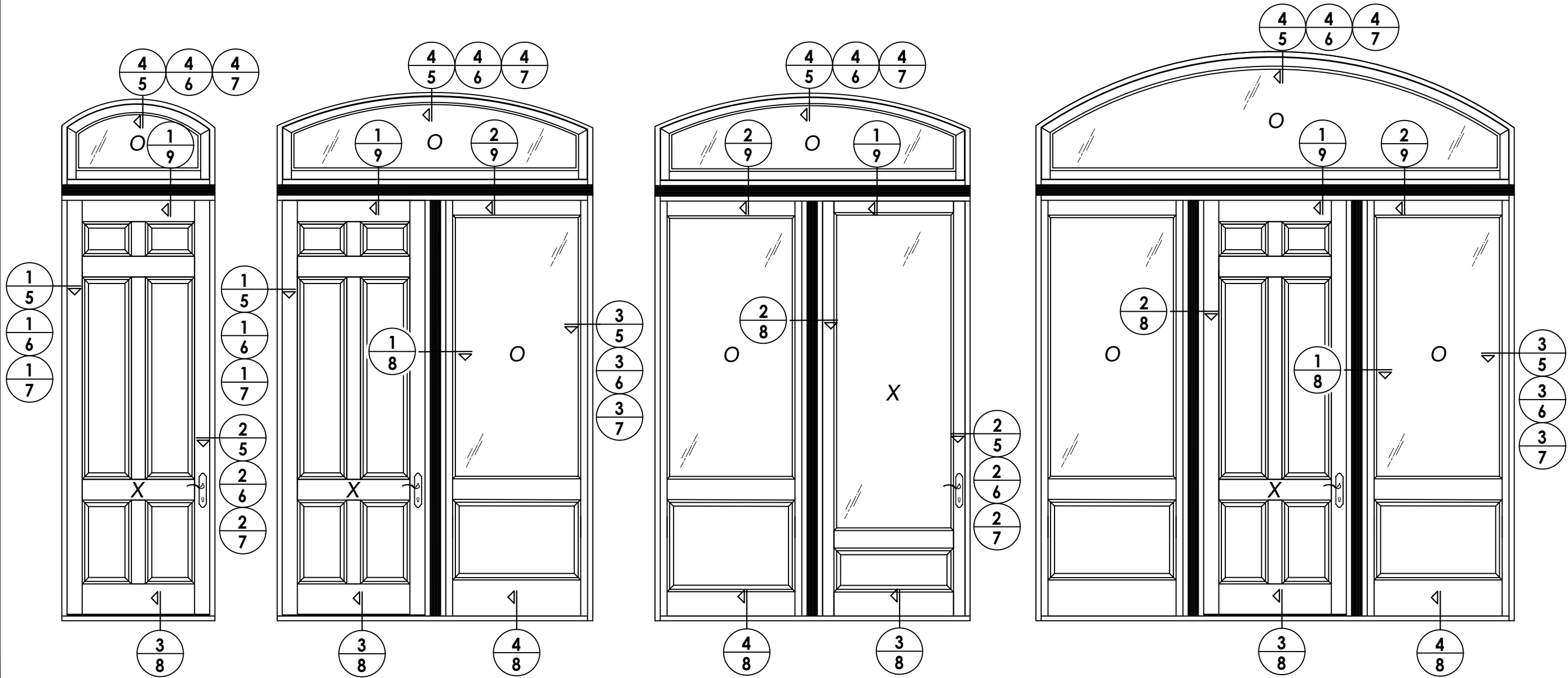
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DATE: 1/23/24  
SCALE: N.T.S.  
DWG. BY: LFS  
CHK. BY: RW  
DRAWING NO.: FL-41636.5  
SHEET 2 OF 12



|                         |  |                                                       |  |                                                                                                                                         |  |
|-------------------------|--|-------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| DATE: 1/23/24           |  | PRODUCT: MW MILLWORKS<br>WOOD DOOR                    |  | Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409                                                                           |  |
| SCALE: N.T.S.           |  | PART OR ASSEMBLY: SIDELITE & TRANSOM<br>PANEL DETAILS |  | <i>R<sup>W</sup></i> BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |  |
| DWG. BY: LFS            |  |                                                       |  |                                                                                                                                         |  |
| CHK. BY: RW             |  |                                                       |  |                                                                                                                                         |  |
| DRAWING NO.: FL-41636.5 |  |                                                       |  |                                                                                                                                         |  |
| SHEET 3 OF 12           |  |                                                       |  |                                                                                                                                         |  |
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NOTE: OPAQUE & GLAZED DOORS MAY BE INTERCHANGED  
IN ALL CONFIGURATIONS SHOWN

DATE: 1/23/24  
SCALE: N.T.S.  
DWG. BY: LFS  
CHK. BY: RW  
DRAWING NO.: FL-41636.5  
SHEET 4 OF 12

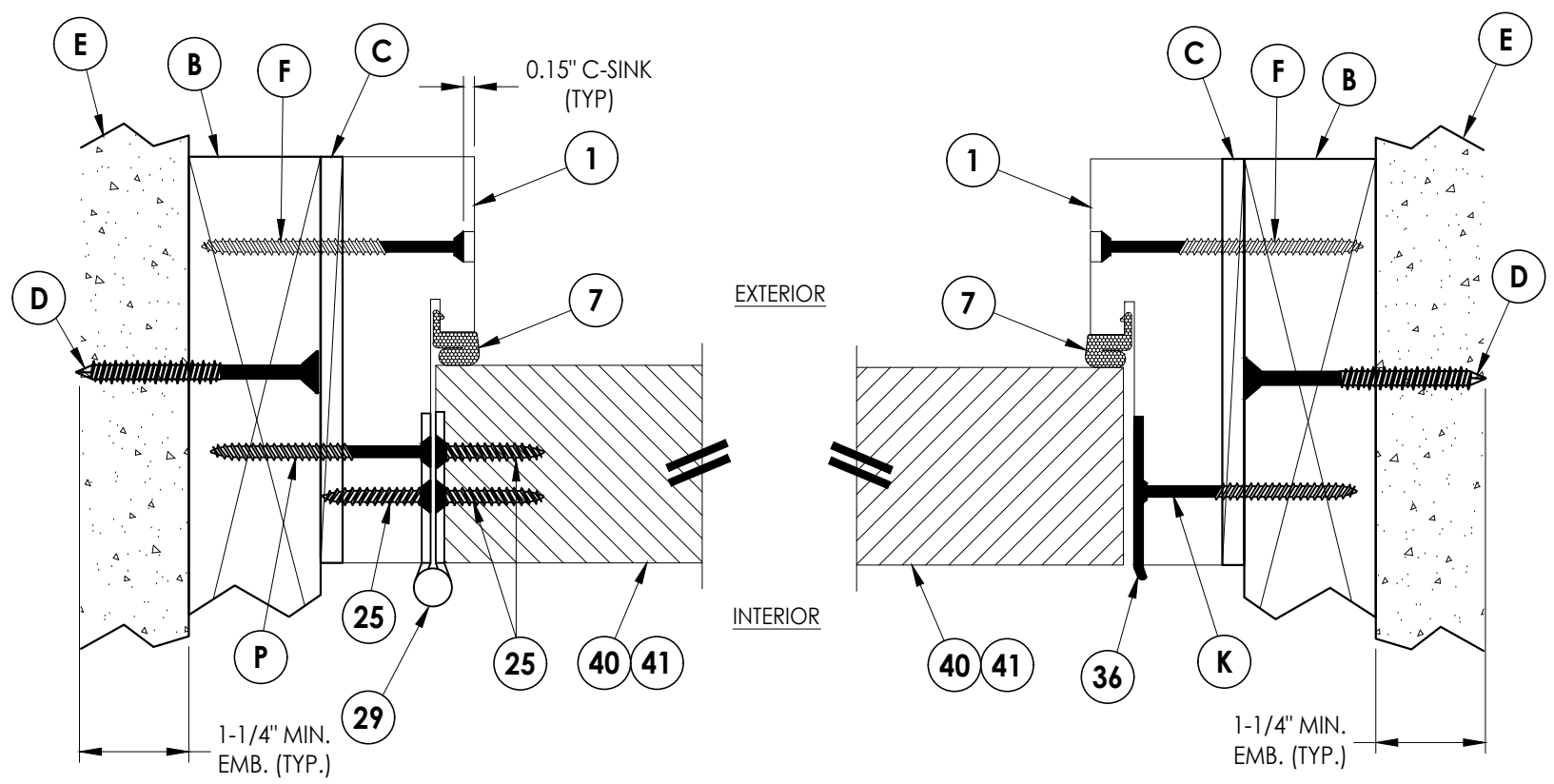
PRODUCT: MW MILLWORKS  
WOOD DOOR

PART OR ASSEMBLY:  
ELEVATIONS

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

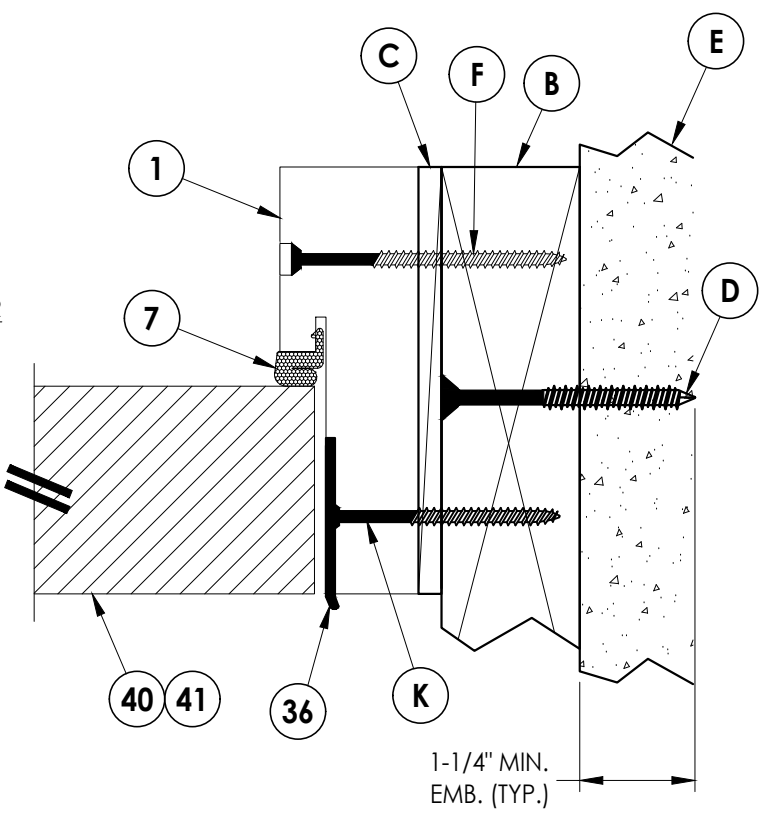
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Phone No.: 813.659.9197  
FBPE Registry No. 9813

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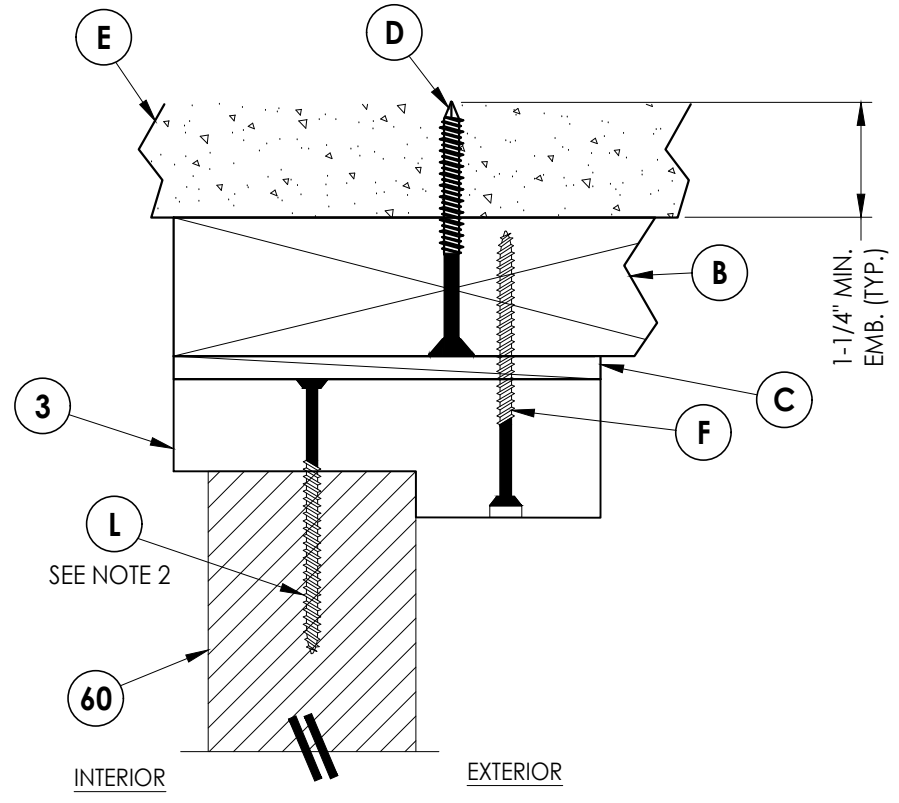
## 1 **HORIZONTAL CROSS SECTION**

### 5 2X Buck Construction



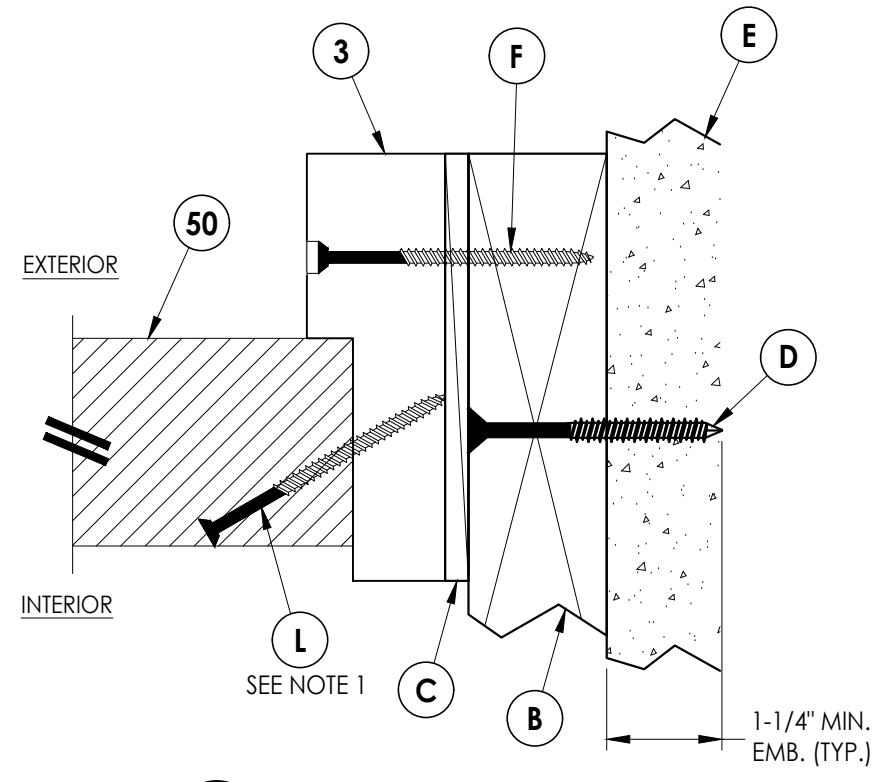
## 2 HORIZONTAL CROSS SECTION

### 5 2X Buck Construction



## 4 VERTICAL CROSS SECTION

### 5 2X Buck Construction

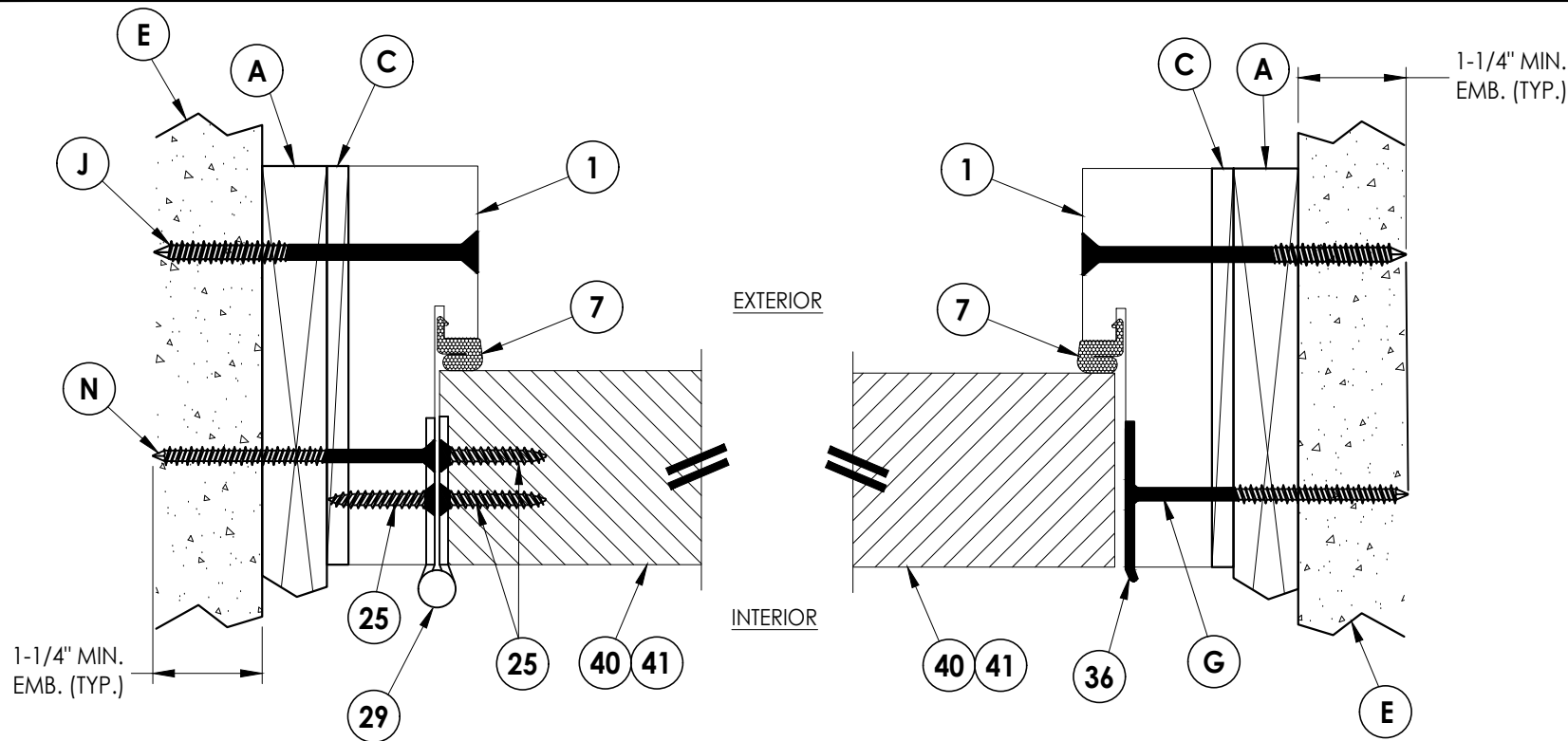


### 3 HORIZONTAL CROSS SECTION 5 2X Buck Construction

- NOTES:
1. SIDELITE ASSEMBLY SCREWS (TOE-NAILED @ 30°)  
LOCATED 5" FROM EACH END PLUS 7 MORE  
EQUALLY SPACED (9 TOTAL).
  2. TRANSCOM ASSEMBLY SCREWS LOCATED 5" FROM  
EACH END & 16" O.C. THEREAFTER.

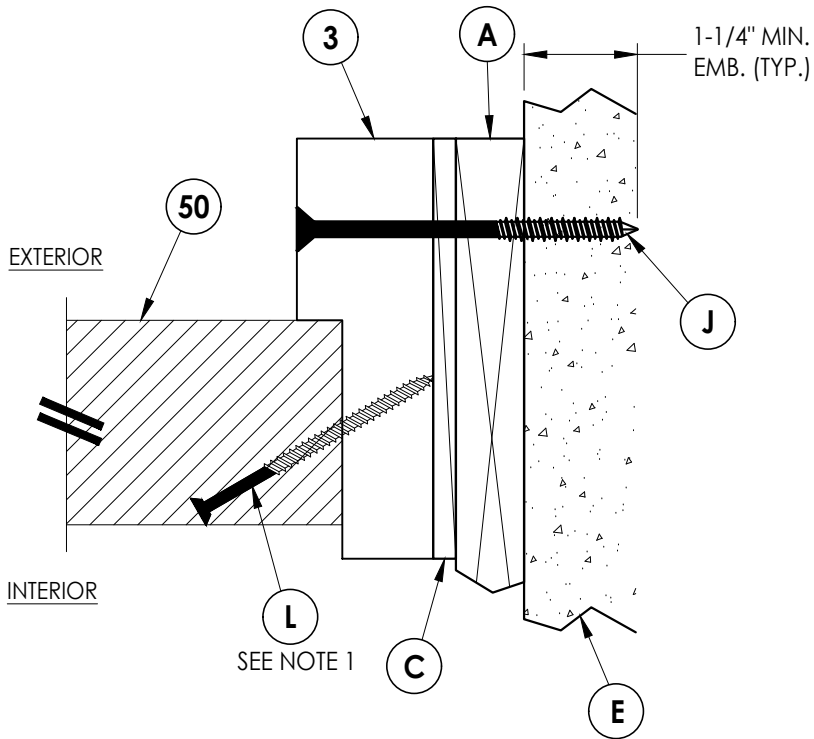
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| <b>DATE:</b> 1/23/24                      |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>Documents Prepared By:</b><br>Lyndon F. Schmidt<br>P.E. No. 43409<br><br><div style="font-size: 2em; font-weight: bold; text-align: center;">R<sup>g</sup>W</div> BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |  |
| <b>SCALE:</b> N.T.S.                      |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                         |  |
| <b>DWG. BY:</b> LFS                       |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                         |  |
| <b>CHK. BY:</b> RW                        |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                         |  |
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| <b>SHEET</b> 5 <b>OF</b> 12               |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                         |  |
| <b>PRODUCT:</b> MW MILLWORKS<br>WOOD DOOR |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>PART OR ASSEMBLY:</b><br>HORIZONTAL & VERTICAL<br>CROSS SECTIONS (2X BUCK)                                                                                                                                                                                                           |  |
| <b>NO.</b>                                |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                         |  |
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| <b>REVISIONS</b>                          |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                         |  |
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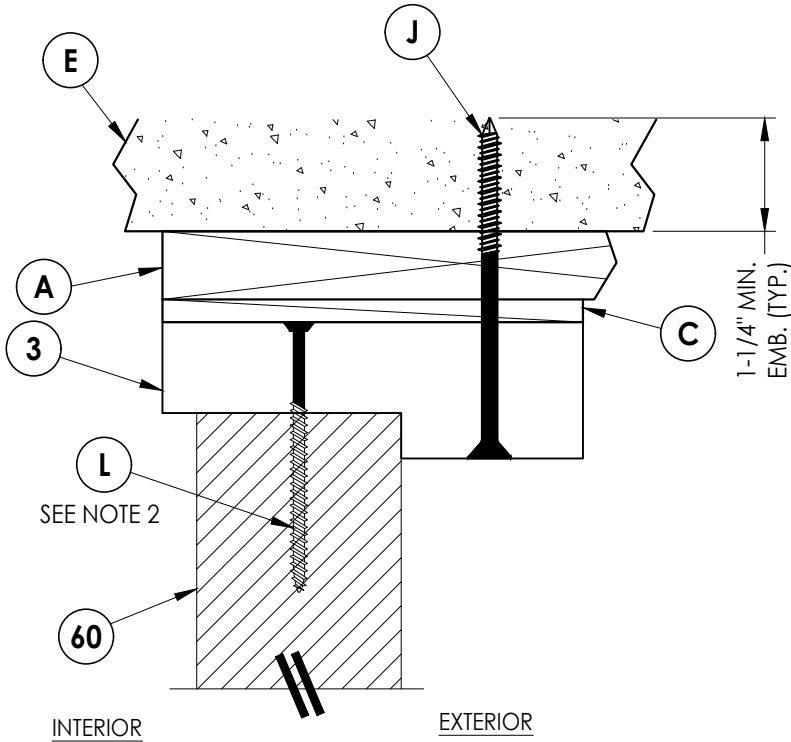


**1**  
**6** **HORIZONTAL CROSS SECTION**  
1X Buck Construction

**2**  
**6** **HORIZONTAL CROSS SECTION**  
1X Buck Construction



**3**  
**6** **HORIZONTAL CROSS SECTION**  
1X Buck Construction

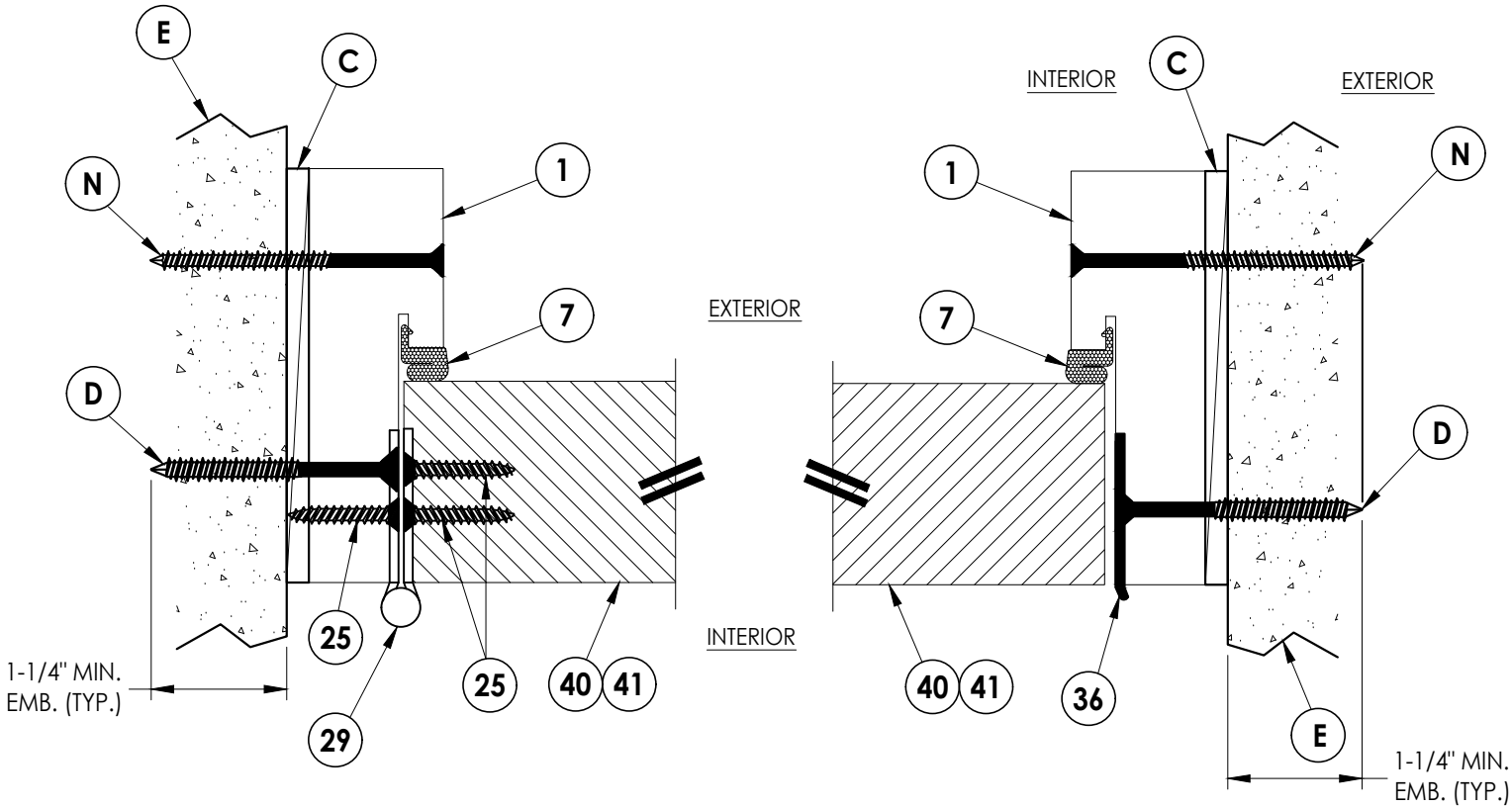


**4**  
**6** **VERTICAL CROSS SECTION**  
1X Buck Construction

- NOTES:
- 1. SIDELITE ASSEMBLY SCREWS (TOE-NAILED @ 30°) LOCATED 5" FROM EACH END PLUS 7 MORE EQUALLY SPACED (9 TOTAL).
  - 2. TRANSOM ASSEMBLY SCREWS LOCATED 5" FROM EACH END & 16" O.C. THEREAFTER.

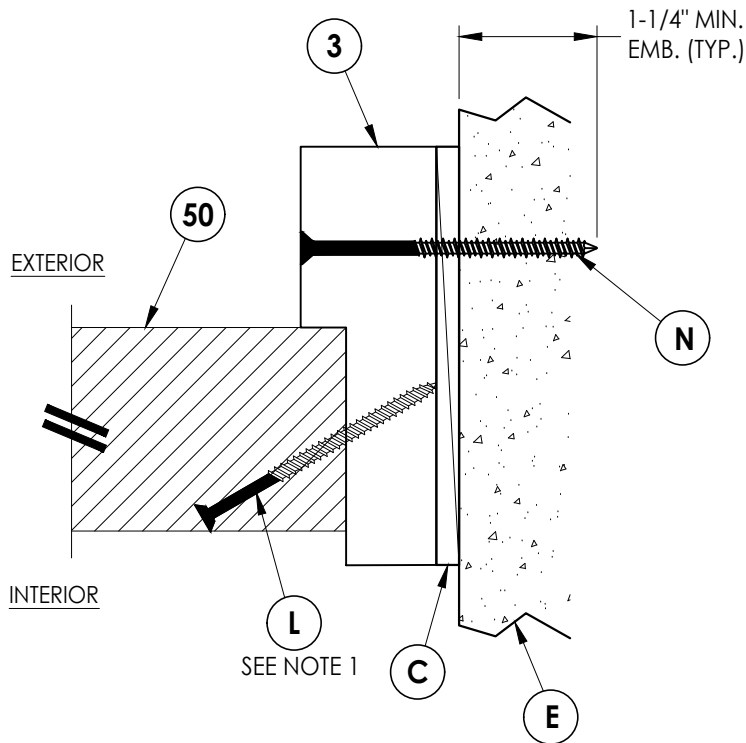
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| PRODUCT: MW MILLWORKS<br>WOOD DOOR                            |  |  |  | PART OR ASSEMBLY:<br>HORIZONTAL & VERTICAL<br>CROSS SECTIONS (1X BUCK)                                             |  |  |  |
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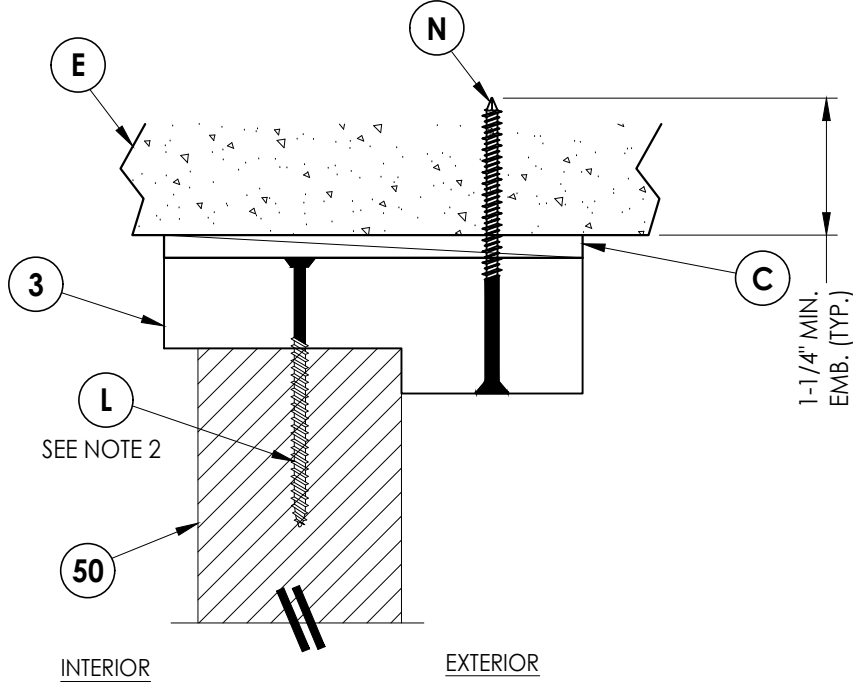


**1**  
**7** **HORIZONTAL CROSS SECTION**  
Shown Direct to Masonry

**2**  
**7** **HORIZONTAL CROSS SECTION**  
Shown Direct to Masonry



**3**  
**7** **HORIZONTAL CROSS SECTION**  
Shown Direct to Masonry



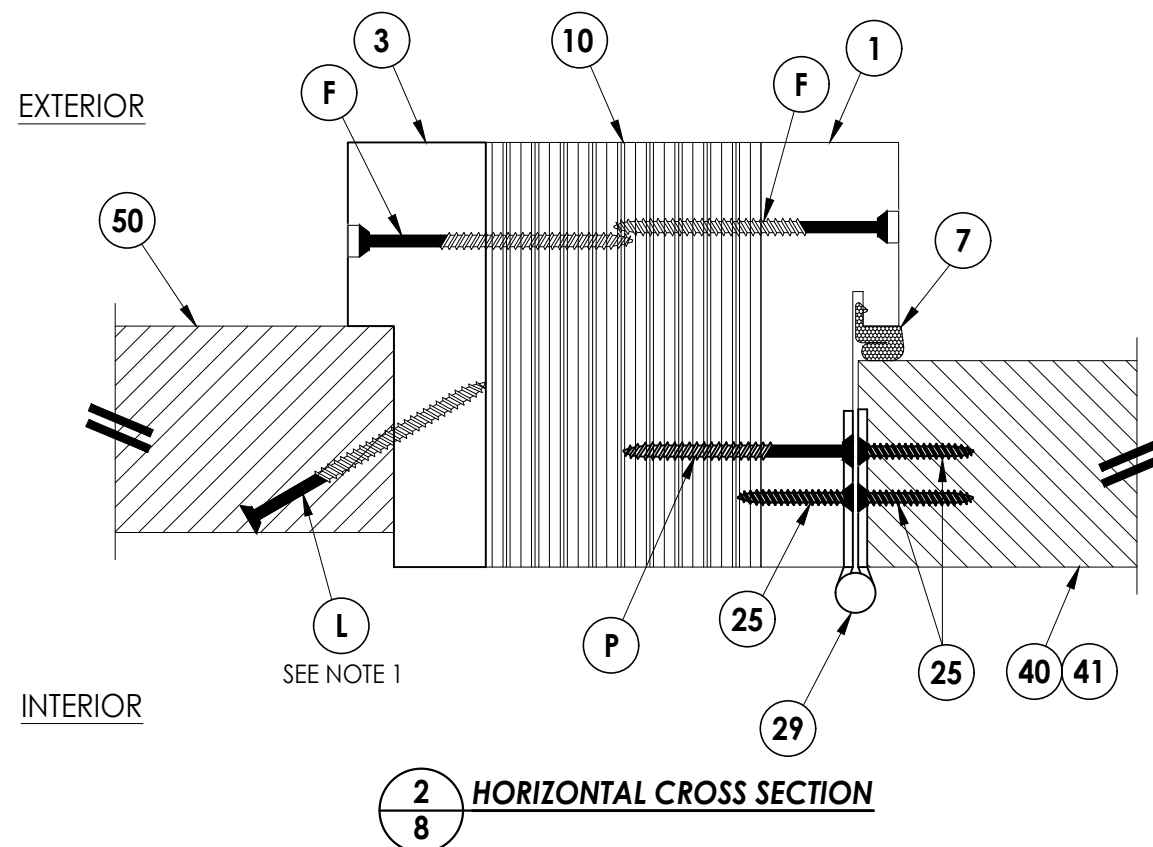
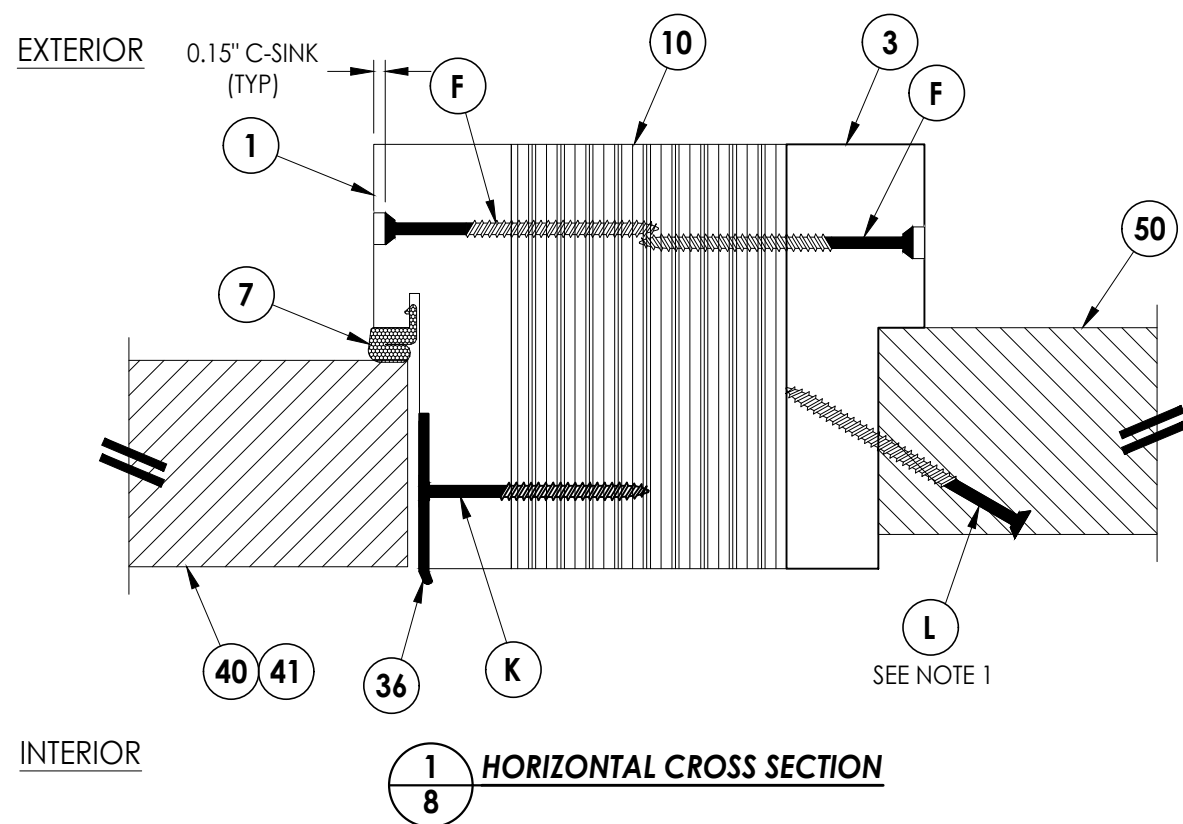
**4**  
**7** **VERTICAL CROSS SECTION**  
Shown Direct to Masonry

- NOTES:
1. SIDELITE ASSEMBLY SCREWS (TOE-NAILED @ 30°) LOCATED 5" FROM EACH END PLUS 7 MORE EQUALLY SPACED (9 TOTAL).
  2. TRANSOM ASSEMBLY SCREWS LOCATED 5" FROM EACH END & 16" O.C. THEREAFTER.

|                                 |  |                                                                            |      |
|---------------------------------|--|----------------------------------------------------------------------------|------|
| PRODUCT: MW MILLWORKS WOOD DOOR |  | PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (DIRECT TO MASONRY) |      |
|                                 |  | NO.                                                                        | DATE |
|                                 |  | BY                                                                         |      |
| REVISIONS                       |  |                                                                            |      |
| DATE: 12                        |  |                                                                            |      |
| SCALE: N.T.S.                   |  |                                                                            |      |
| DWG. BY: LFS                    |  |                                                                            |      |
| CHK. BY: RW                     |  |                                                                            |      |
| DRAWING NO.: FL-41636.5         |  |                                                                            |      |
| SHEET 7 OF 12                   |  |                                                                            |      |

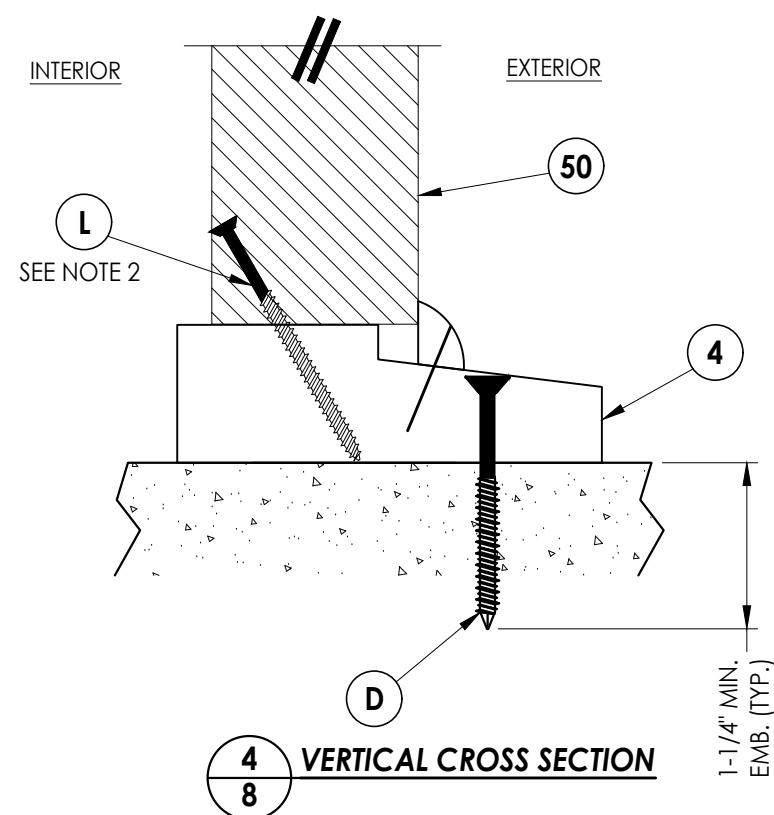
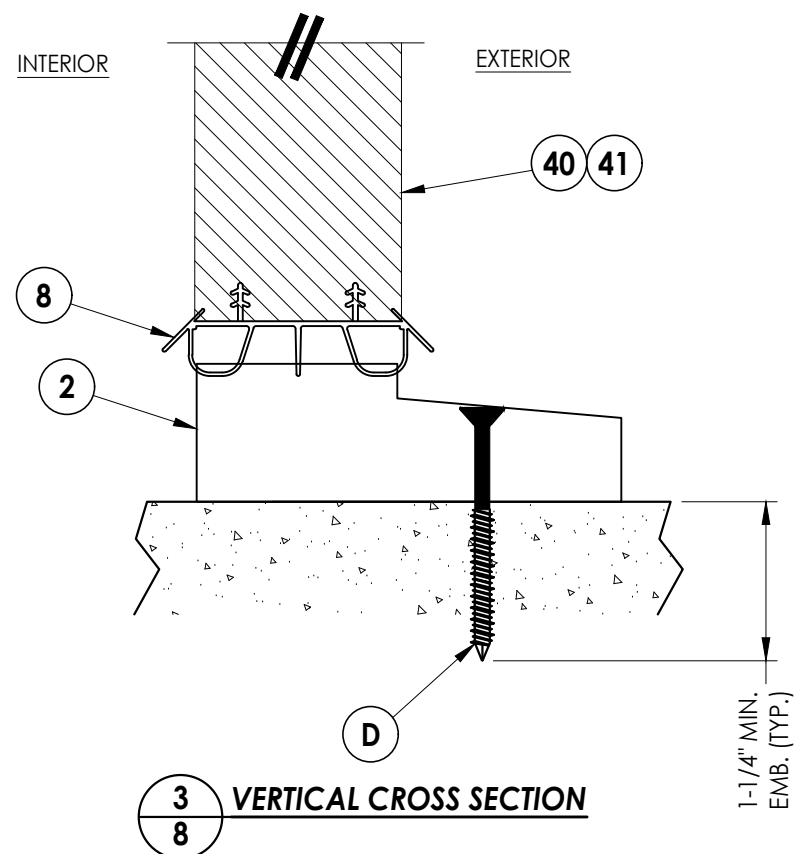
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

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



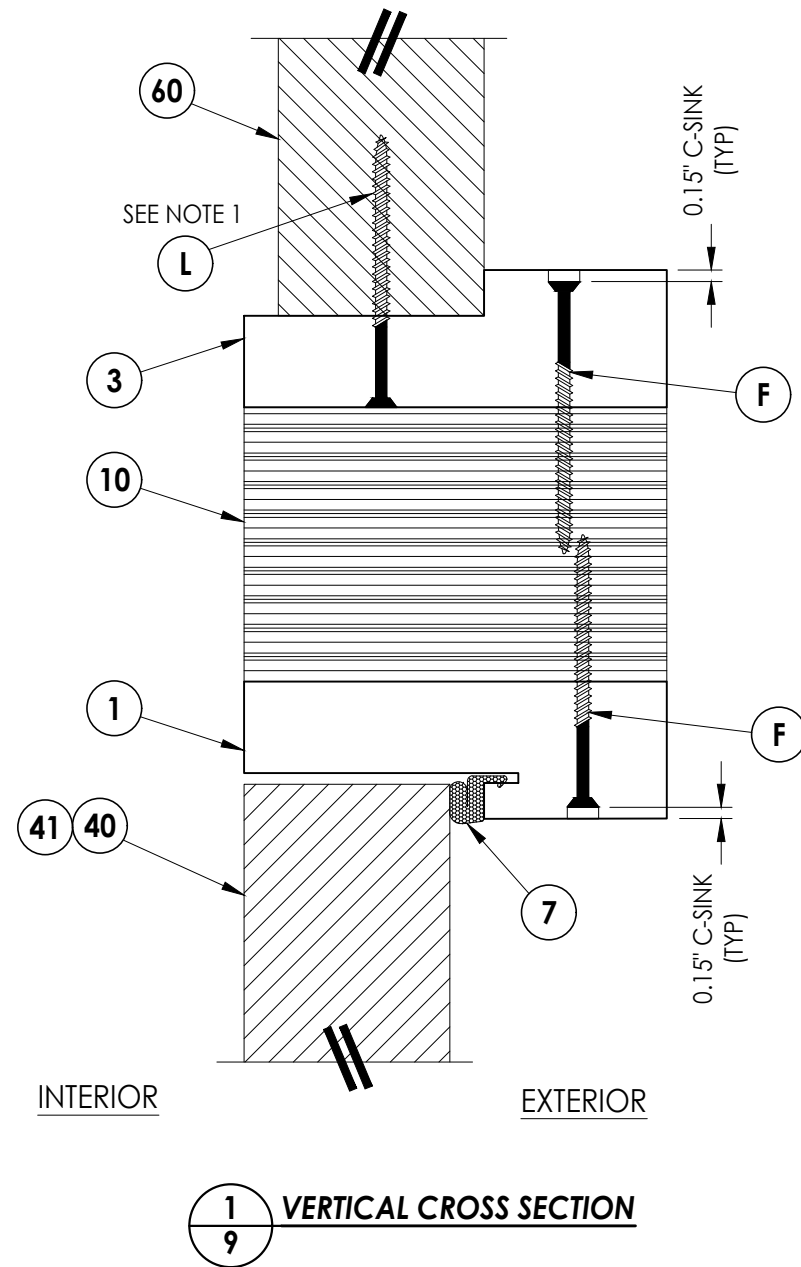
NOTE:

1. SIDELITE ASSEMBLY SCREWS (TOE-NAILED @ 30°)  
LOCATED 5" FROM EACH END PLUS 7 MORE  
EQUALLY SPACED (9 TOTAL).
2. SIDELITE ASSEMBLY SCREWS (TOE-NAILED @ 30°)  
LOCATED 6" FROM EACH END (2 TOTAL ALONG  
HEAD).

[illegible]

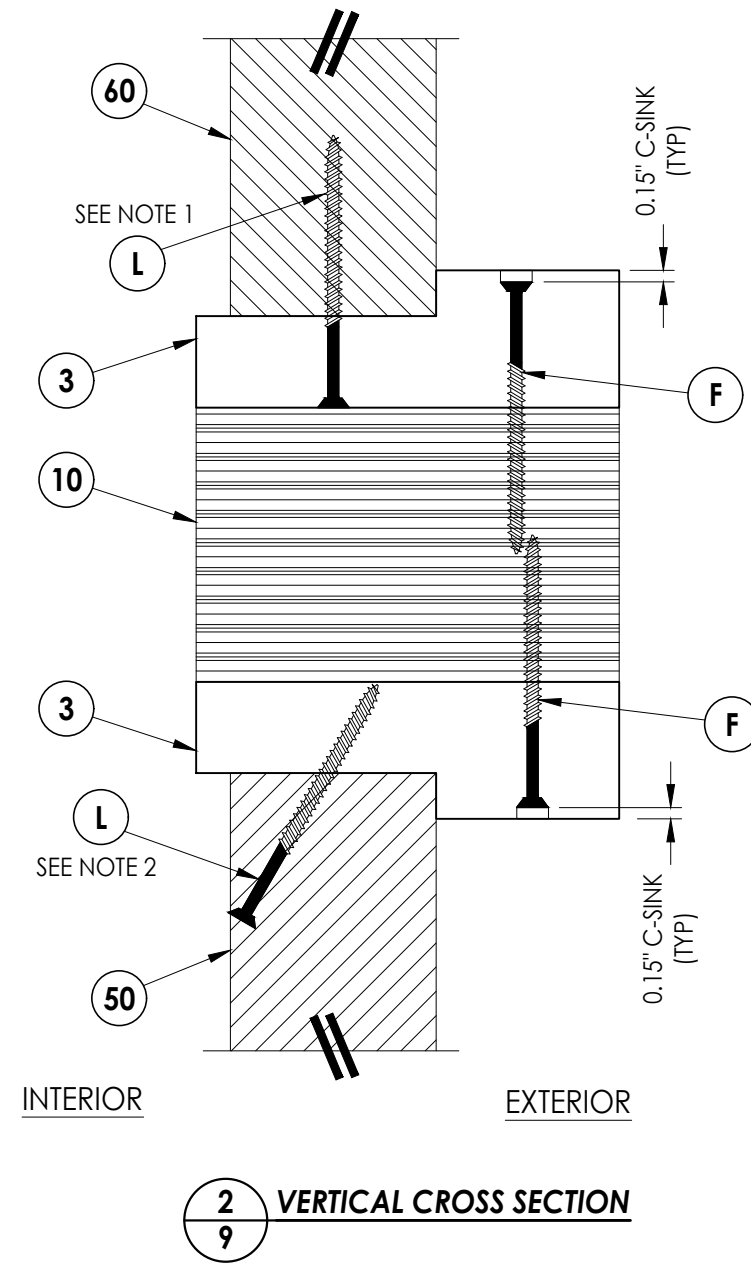
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

***R<sup>W</sup>***  
BUILDING CONSULTANTS, INC.  
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Phone No.: 813.659.9197  
FBPE Registry No. 9813



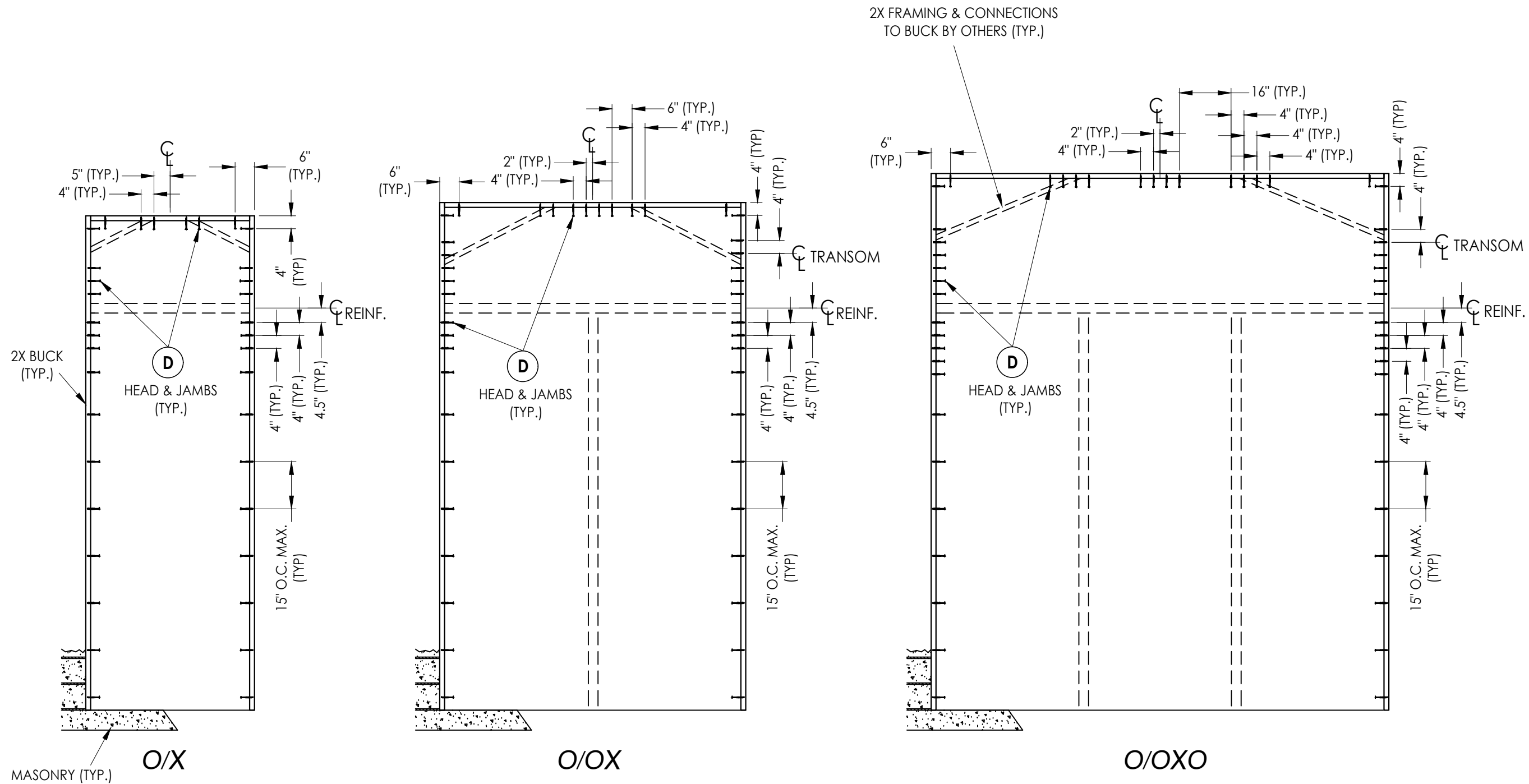
NOTE:

1. TRANSOM ASSEMBLY SCREWS LOCATED 5" FROM EACH END & 16" O.C. THEREAFTER.
2. SIDELITE ASSEMBLY SCREWS (TOE-NAILED @ 30°) LOCATED 6" FROM EACH END (2 TOTAL ALONG HEAD).

[illegible]

Documents Prepared By:  
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## 2X BUCK ANCHORING

[illegible]

Documents Prepared By:  
Lyndon F. Schmidt  
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Phone No.: 813.659.9197  
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1. HEAD & SILL EACH ATTACHED TO MULLION w/ (4) #10 X 3" STAR FH DECK SCREWS @ EACH END (TYP.)

MULLION TO JAMB CONNECTION  
(TYP. @ EACH END OF HORIZONTAL MULLION)  
USE SIMPSON STRONG-TIE HRS6 CLIP w/  
(4) #10 X 2" SMS INTO MULLION &  
(2) #10 X 1-1/2" SMS INTO 2X BUCK OR  
(2) 3/16" Ø X 2-3/4" PFH ITW CONCRETE  
SCREWS INTO CONCRETE SUBSTRATE.

DIRECT TO MASONRY **N**  
1X BUCK **J**  
2X BUCK **F**  
TRANSOM HEAD

(4) #7 X 1-3/4" FH WOOD SCREWS

2.18" (TYP.)

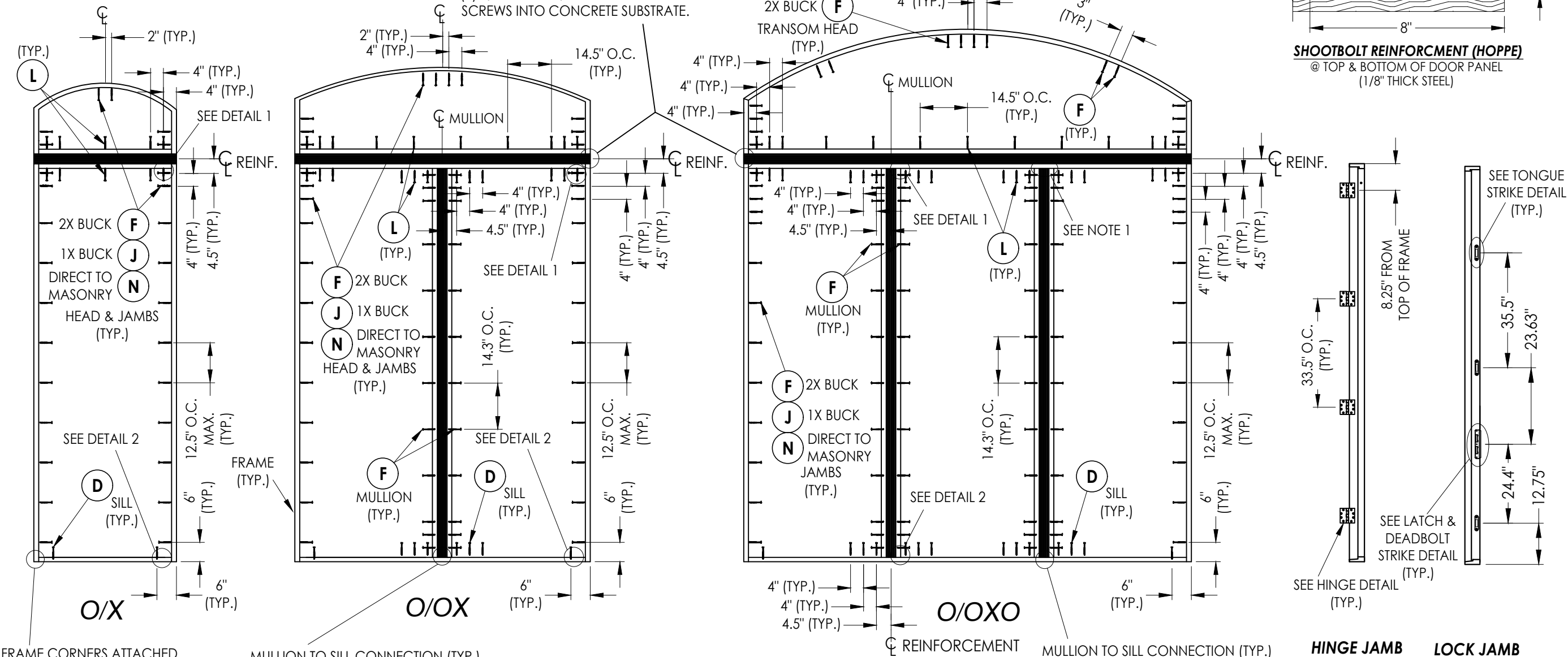
1"

8"

0.875"

The drawing shows a side view of a wooden bench seat assembly. It consists of a horizontal seat board and a vertical backrest board. The seat board is 8 inches long. The backrest board is 0.875 inches thick. There are four #7 X 1-3/4 inch flat head wood screws securing the seat board to the backrest board. The screws are spaced 2.18 inches apart (typical). The distance from the left edge of the seat board to the first screw is 1 inch. The distance from the last screw to the right edge of the seat board is 1 inch. The backrest board has a rounded top edge.

**SHOOTBOLT REINFORCEMENT (HOPPE)**  
@ TOP & BOTTOM OF DOOR PANEL  
(1/8" THICK STEEL)



FRAME CORNERS ATTACHED  
TOGETHER w/ (3) #10 X 3" STAR FH  
DECK SCREWS EACH (TYP.)

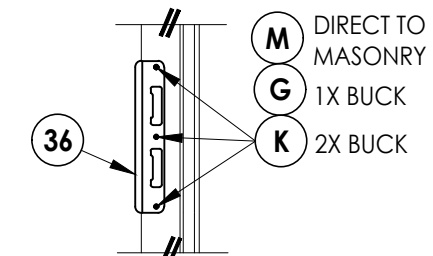
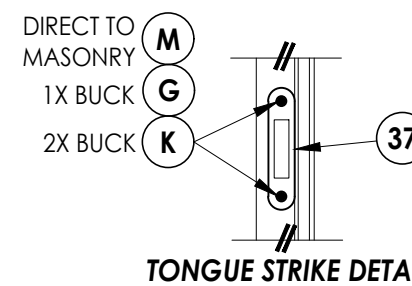
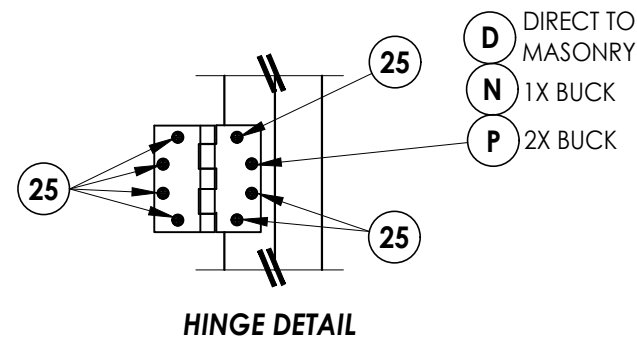
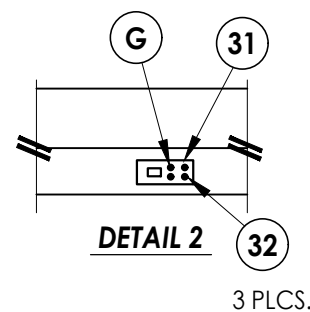
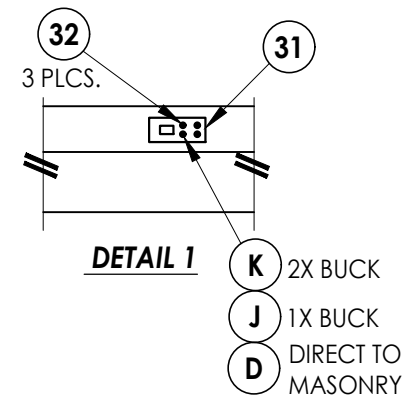
MULLION TO SILL CONNECTION (TYP.)  
USE SIMPSON STRONG-TIE ML23Z CLIP w/  
(2) #10 X 2" SMS INTO MULLION &  
(2) 3/16" Ø X 2-3/4" PFH ITW CONCRETE  
SCREWS INTO CONCRETE SUBSTRATE

## FRAME ANCHORING

MULLION TO SILL CONNECTION (TYP.)  
USE SIMPSON STRONG-TIE ML23Z CLIP w/  
(2) #10 X 2" SMS INTO MULLION &  
(2) 3/16" Ø X 2-3/4" PFH ITW CONCRETE  
SCREWS INTO SUBSTRATE

## HINGE JAMB

## LOCK JAMB



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

MW MILLWORKS  
WOOD DOOR

**IR ASSEMBLY:**  
**FRAME ANCHORING  
& HARDWARE DETAILS**

**BUILDING CONSULTANTS, INC.**  
P.O. Box 230, Valrico, FL 33486  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

DATE: 1/23/24

SCALE: *N.T.S.*

DWG. BY: *LFS*

CHK. BY: *RW*

DRAWING NO.:

FL-41636.5

SHEET 11 OF 12

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| BILL OF MATERIALS |                                                                                                               |          |
|-------------------|---------------------------------------------------------------------------------------------------------------|----------|
| ITEM #            | DESCRIPTION                                                                                                   | MATERIAL |
| A                 | 1X BUCK (G >= 0.42)                                                                                           | WOOD     |
| B                 | 2X BUCK (G >= 0.42)                                                                                           | WOOD     |
| C                 | 1/4" MAX. SHIM SPACE                                                                                          | -        |
| D                 | 1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW                                                                | STEEL    |
| E                 | MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK (GROUT FILLED) CONFORMING TO ASTM C90 | CONCRETE |
| F                 | #10 X 3" PFH WOOD SCREW (1-3/8" MIN. EMBEDMENT)                                                               | STEEL    |
| G                 | 3/16" X 3-1/4" PFH ITW CONCRETE SCREW                                                                         | STEEL    |
| J                 | 1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW                                                                | STEEL    |
| K                 | #10 X 2-1/2" PFH WOOD SCREW                                                                                   | STEEL    |
| L                 | #10 X 3" STAR FH DECK SCREW                                                                                   | STEEL    |
| M                 | 3/16" X 2-3/4" PFH ITW CONCRETE SCREW                                                                         | STEEL    |
| N                 | 1/4" X 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW                                                                | STEEL    |
| P                 | #12 X 2-1/2" PFH WOOD SCREW                                                                                   | STEEL    |
| 1                 | DOOR JAMB                                                                                                     | WOOD     |
| 2                 | DOOR SILL                                                                                                     | WOOD     |
| 3                 | SIDELITE/TRANSOM JAMB                                                                                         | WOOD     |
| 4                 | SIDELITE SILL                                                                                                 | WOOD     |
| 7                 | WEATHERSTRIP                                                                                                  | FOAM     |
| 8                 | DOOR SWEEP                                                                                                    | VINYL    |
| 10                | MULLION LVL REINFORCEMENT                                                                                     | LVL      |
| 23                | #7 X 1-1/4" PFH WOOD SCREW                                                                                    | STEEL    |
| 25                | #12 X 1-1/4" PFH WOOD SCREW                                                                                   | STEEL    |
| 29                | 4.5" X 4.5" HINGE                                                                                             | STEEL    |
| 31                | SHOOTBOLT STRIKE PLATE                                                                                        | STEEL    |
| 32                | #8 X 3/4" PFH WOOD SCREW                                                                                      | STEEL    |
| 36                | MULTIPOINT LATCH & DEADBOLT STRIKE PLATE                                                                      | STEEL    |
| 37                | MULTIPOINT TONGUE STRIKE PLATE                                                                                | STEEL    |
| 40                | DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR DETAILS                                                          | -        |
| 50                | SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR DETAILS                                                  | -        |

WOOD DOOR FRAME COMPONENTS:  
POPLAR: (G = 0.43)

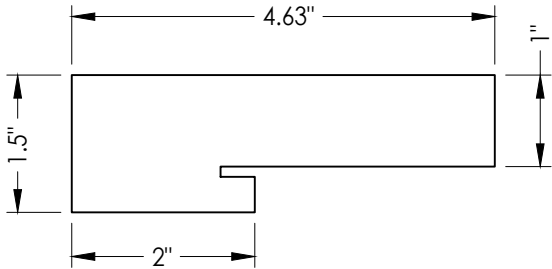
CONCRETE ANCHOR NOTES:

- 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:

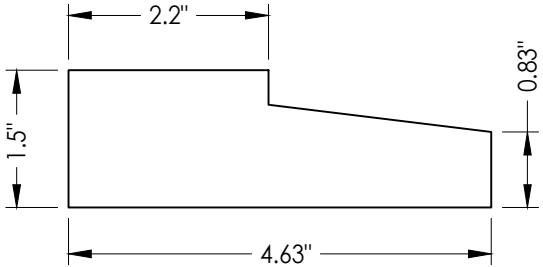
| ANCHOR TYPE         | ANCHOR SIZE | MIN. EMBEDMENT | MIN. CLEARANCE TO MASONRY EDGE | MIN. CLEARANCE TO ADJACENT ANCHOR |
|---------------------|-------------|----------------|--------------------------------|-----------------------------------|
| ITW BUILDEX TAPCON® | 3/16"       | 1-1/4"         | 3"                             | 1-1/2"                            |
|                     | 1/4"        | 1-1/4"         | 3"                             | 4"                                |
| DeWALT ULTRACON®    | 1/4"        | 1-1/4"         | 2-1/2"                         | 4"                                |

WOOD SCREW INSTALLATION NOTES:

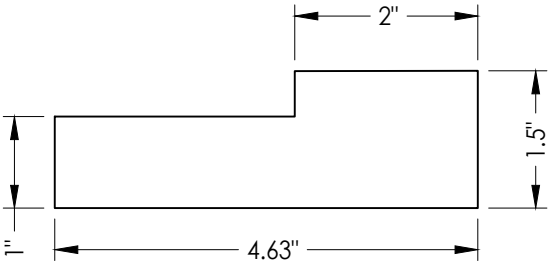
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



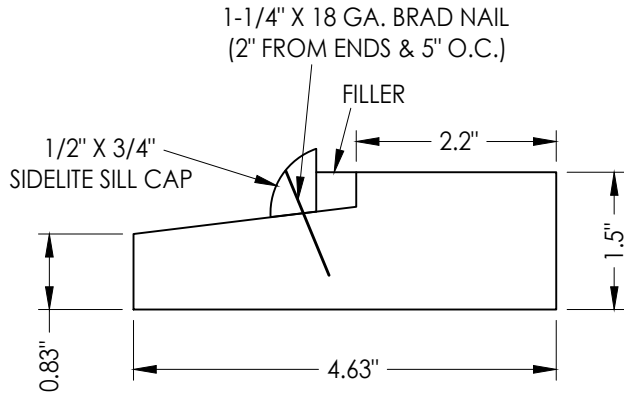
1 WOOD DOOR JAMB



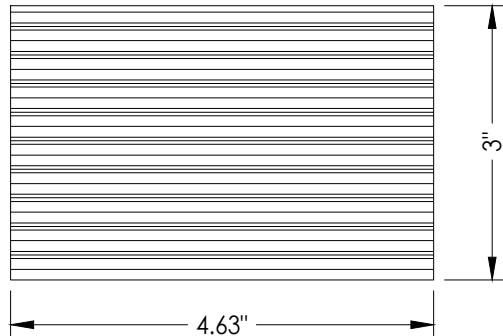
2 WOOD DOOR SILL



3 WOOD SIDELITE/TRANSOM JAMB



4 WOOD SIDELITE SILL



10 MULLION LVL REINFORCEMENT  
VERSA-LAM® 2.1E 3100 LVL  
VERTICAL - FULL HEIGHT

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

BUILDING CONSULTANTS, INC.  
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Phone No.: 813.659.9197  
FBPE Registry No. 9813

PRODUCT: MW MILLWORKS  
WOOD DOOR

PART OR ASSEMBLY:  
BILL OF MATERIALS  
& COMPONENTS

| NO. | DATE | REVISIONS | BY |
|-----|------|-----------|----|
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DATE: 1/23/24

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.:  
FL-41636.5

SHEET 12 OF 12