

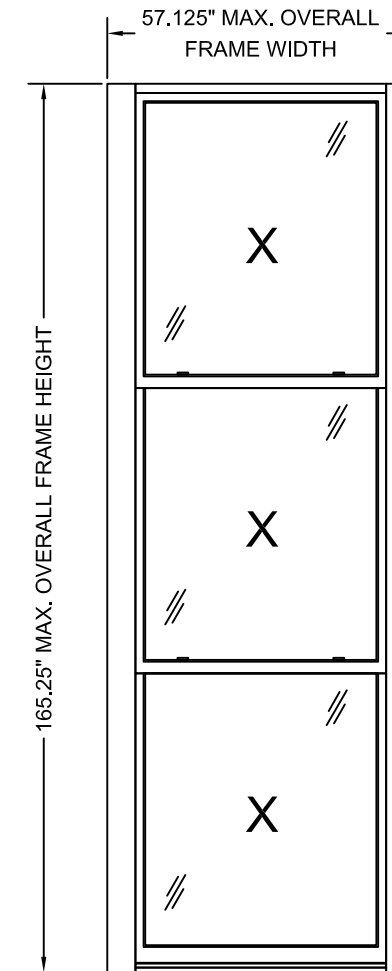
# OLIVERI MILLWORKS

3001 Tuxedo Avenue  
West Palm Beach, FL. 33405

## TRIPLE HUNG WINDOW "IMPACT"

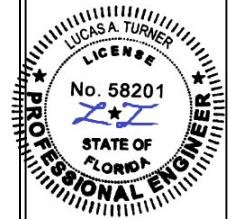
### GENERAL NOTES

1. This product has been evaluated and is in compliance with 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base materials shall be beyond wall dressing or stucco.
3. When used in the "HVHZ" this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. All window frame wood to be Specific Gravity of 0.55 min. (Sapele or similar).
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. This product meets the water infiltration requirements for "HVHZ".



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| SHEET #           | DESCRIPTION   |
| 1                 | Typical elevation, design pressures & general notes |
| 2                 | Horizontal cross sections                           |
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| 5                 | Buck anchoring                                      |
| 6                 | Frame anchoring                                     |
| 7                 | Components  |
| 8                 | Bill of materials, glazing details and components   |

| MAX FRAME DIMENSION | MAX D.L.O DIMENSION | GLASS TYPE | DESIGN PRESSURE (PSF) |          |
|---------------------|---------------------|------------|-----------------------|----------|
|                     |                     |            | POSITIVE              | NEGATIVE |
| 57.125" X 165.25"   | 42.75" X 50.375"    | A          | + 50.0                | - 50.0   |
| 57.125" X 165.25"   | 42.75" X 50.375"    | B          | +60.0                 | - 65.0   |
| 57.125" X 165.25"   | 42.75" X 50.375"    | C          | + 70.0                | - 75.0   |



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TE&C  
LUCAS A. TURNER, P.E. FL PE 58201  
TURNER ENGINEERING & CONSULTING, INC.  
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2428 OLD NATCHEZ TRACE TRAIL  
CAMDEN, TN 38320

OWW LLC  
3001 Tuxedo Ave., West Palm Beach, Fl. 33405  
Ph. 561-478-7233 Fax 561-478-7858

Product: SERIES 4500  
TRIPLE HUNG WEIGHT AND CHAIN WINDOW  
Date: 04-16-21  
Scale: None  
Drawn: JDS

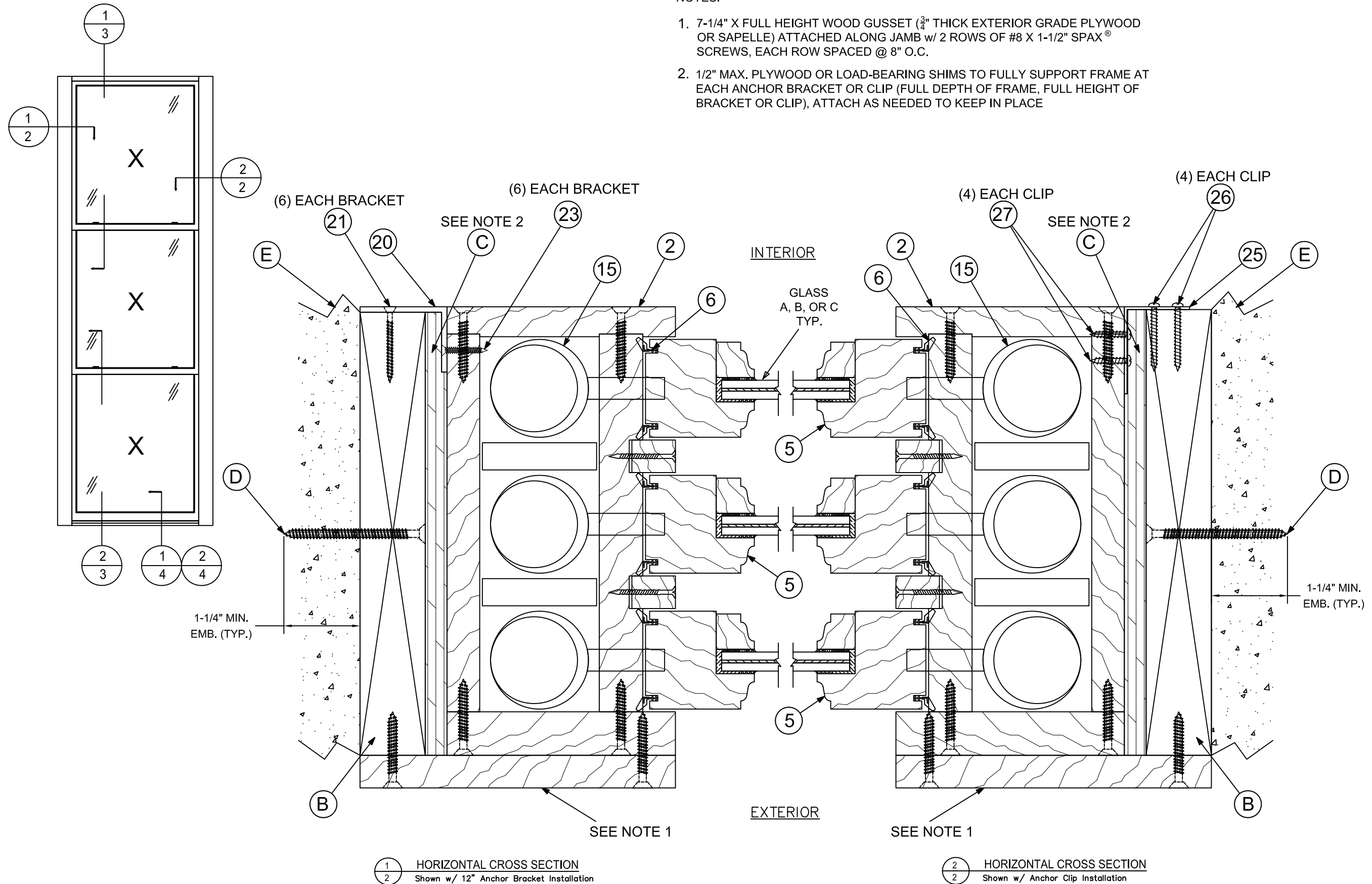
TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

Dwg: TH-WC  
FL34941.6

Sheet No.  
1 OF 8

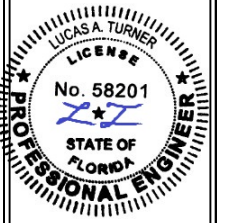
NOTES:

- 7-1/4" X FULL HEIGHT WOOD GUSSET (3/4" THICK EXTERIOR GRADE PLYWOOD OR SAPELLE) ATTACHED ALONG JAMB w/ 2 ROWS OF #8 X 1-1/2" SPAX® SCREWS, EACH ROW SPACED @ 8" O.C.
- 1/2" MAX. PLYWOOD OR LOAD-BEARING SHIMS TO FULLY SUPPORT FRAME AT EACH ANCHOR BRACKET OR CLIP (FULL DEPTH OF FRAME, FULL HEIGHT OF BRACKET OR CLIP), ATTACH AS NEEDED TO KEEP IN PLACE



1 HORIZONTAL CROSS SECTION  
2 Shown w/ 12" Anchor Bracket Installation

2 HORIZONTAL CROSS SECTION  
2 Shown w/ Anchor Clip Installation



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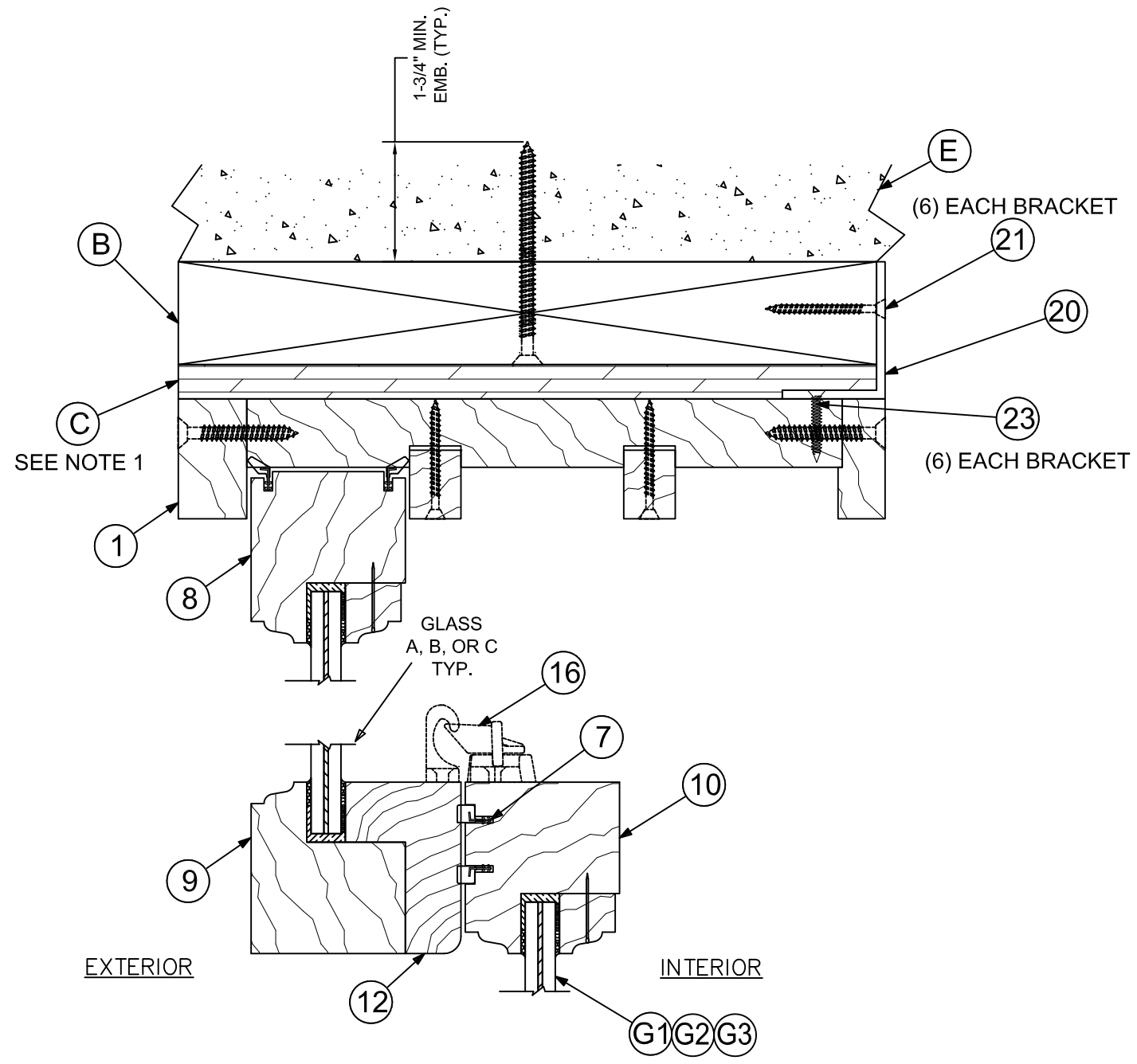
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HORIZONTAL CROSS SECTIONS

Product: SERIES 4500  
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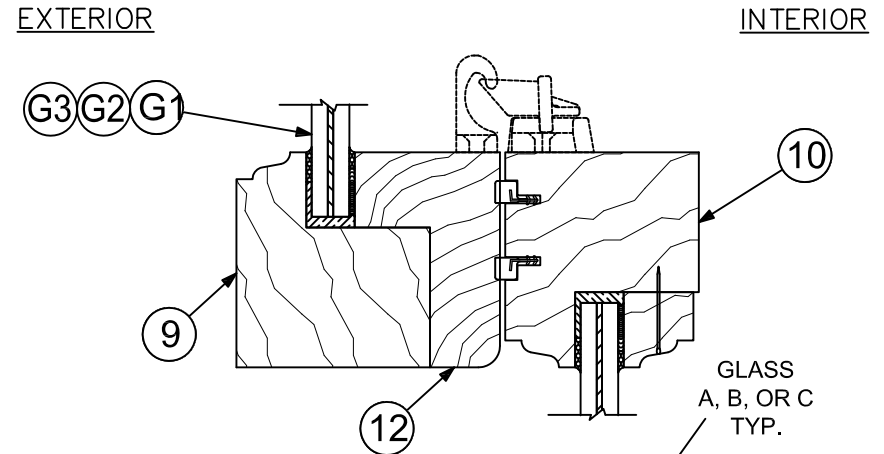
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FL34941.6

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2 OF 8

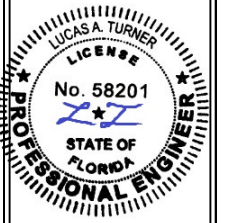


1 VERTICAL CROSS SECTION  
3 Shown w/ 2X Buck Installation

NOTE:  
1. 1/2" MAX. PLYWOOD OR LOAD-BEARING SHIMS TO FULLY SUPPORT FRAME AT EACH ANCHOR BRACKET (FULL DEPTH OF FRAME, FULL WIDTH OF BRACKET), ATTACH AS NEEDED TO KEEP IN PLACE.



2 VERTICAL CROSS SECTION  
3 Shown w/ 2X Buck Installation



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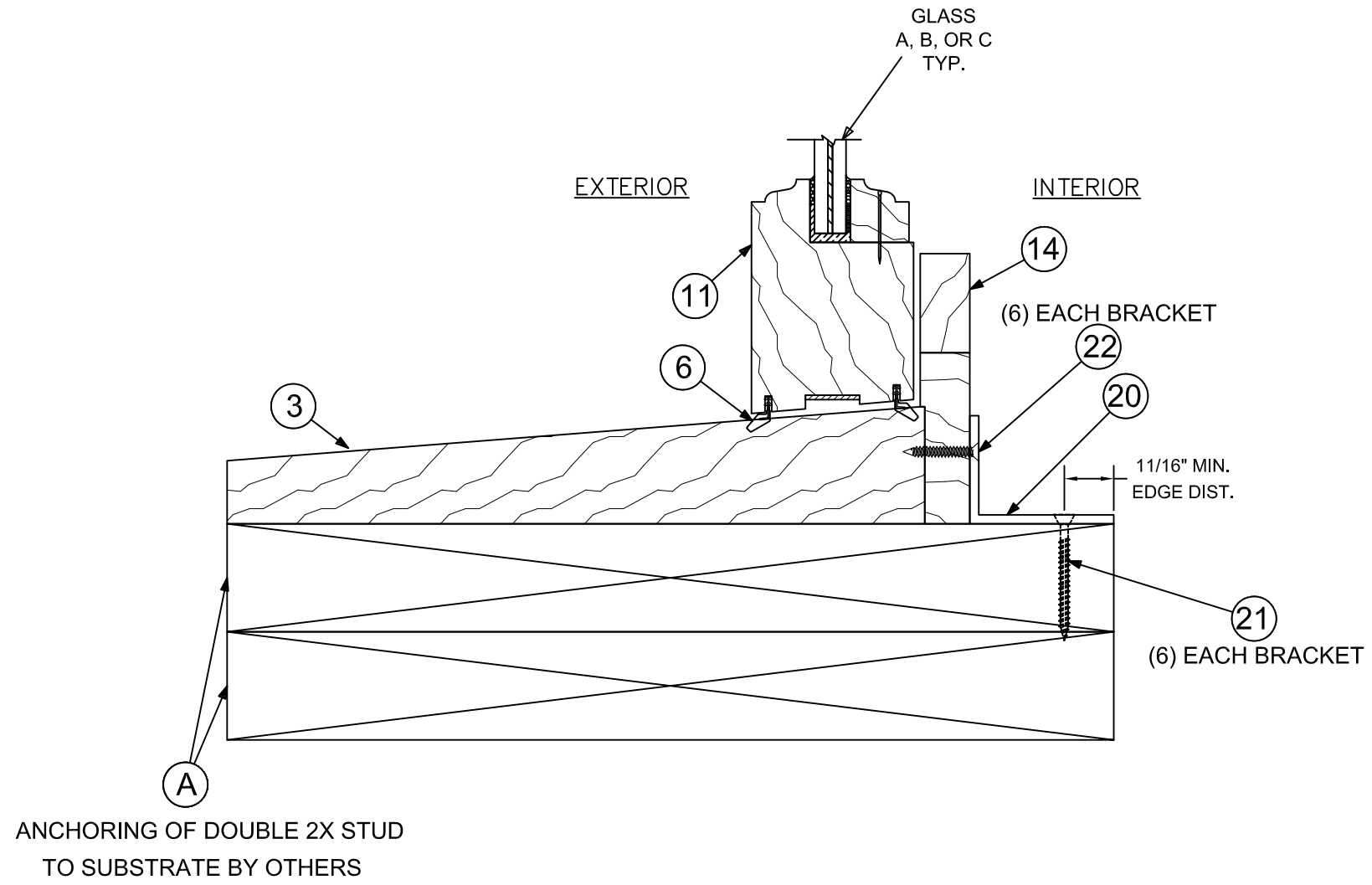
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TRIPLE HUNG WEIGHT AND CHAIN WINDOW

Date: 04-16-21  
Scale: None  
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VERTICAL CROSS SECTIONS

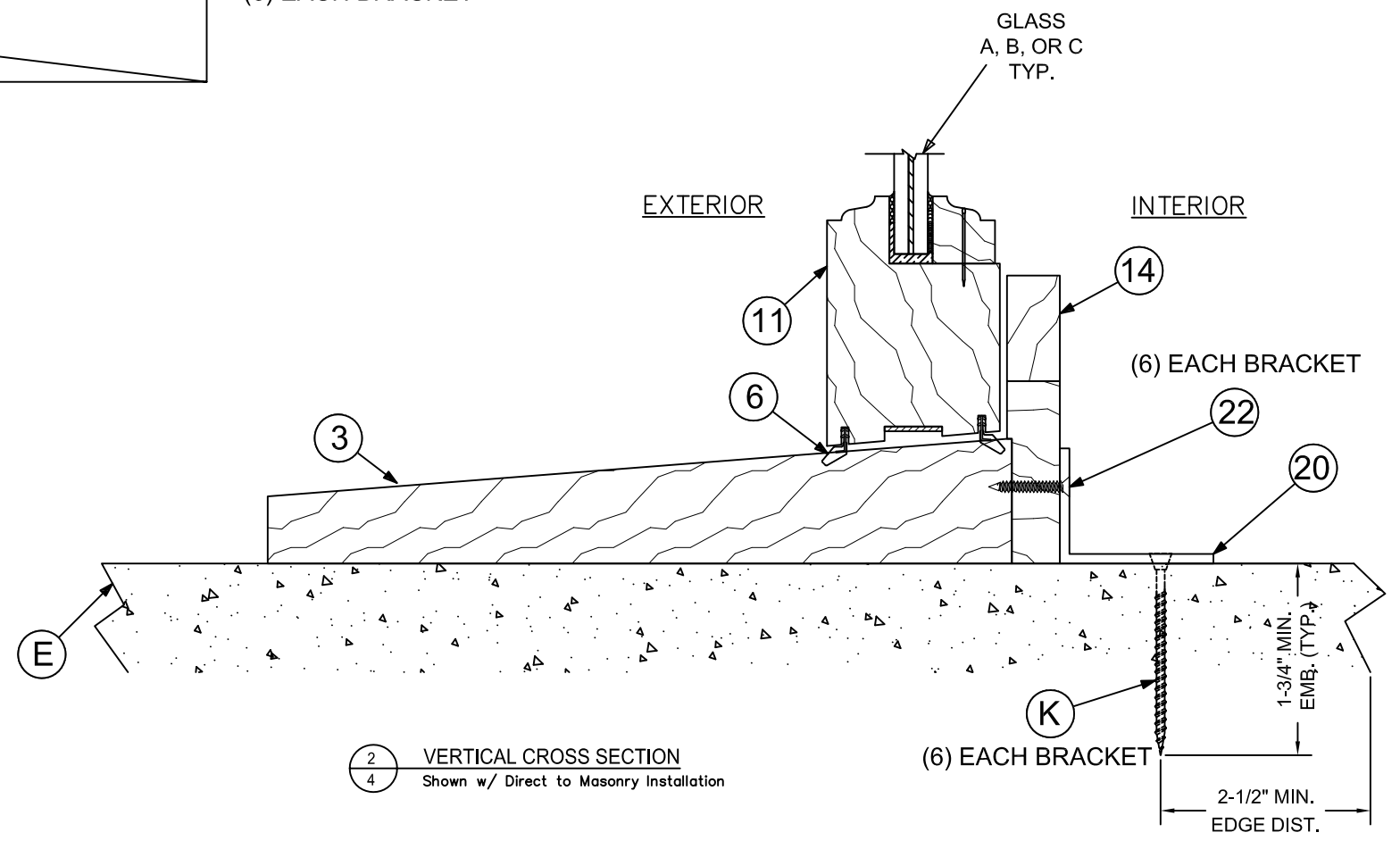
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3 OF 8

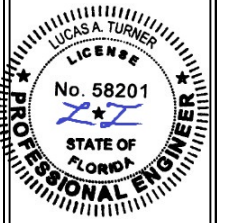


ANCHORING OF DOUBLE 2X STUD  
TO SUBSTRATE BY OTHERS

1  
4 VERTICAL CROSS SECTION  
Shown w/ Double 2X Buck Installation



2  
4 VERTICAL CROSS SECTION  
Shown w/ Direct to Masonry Installation



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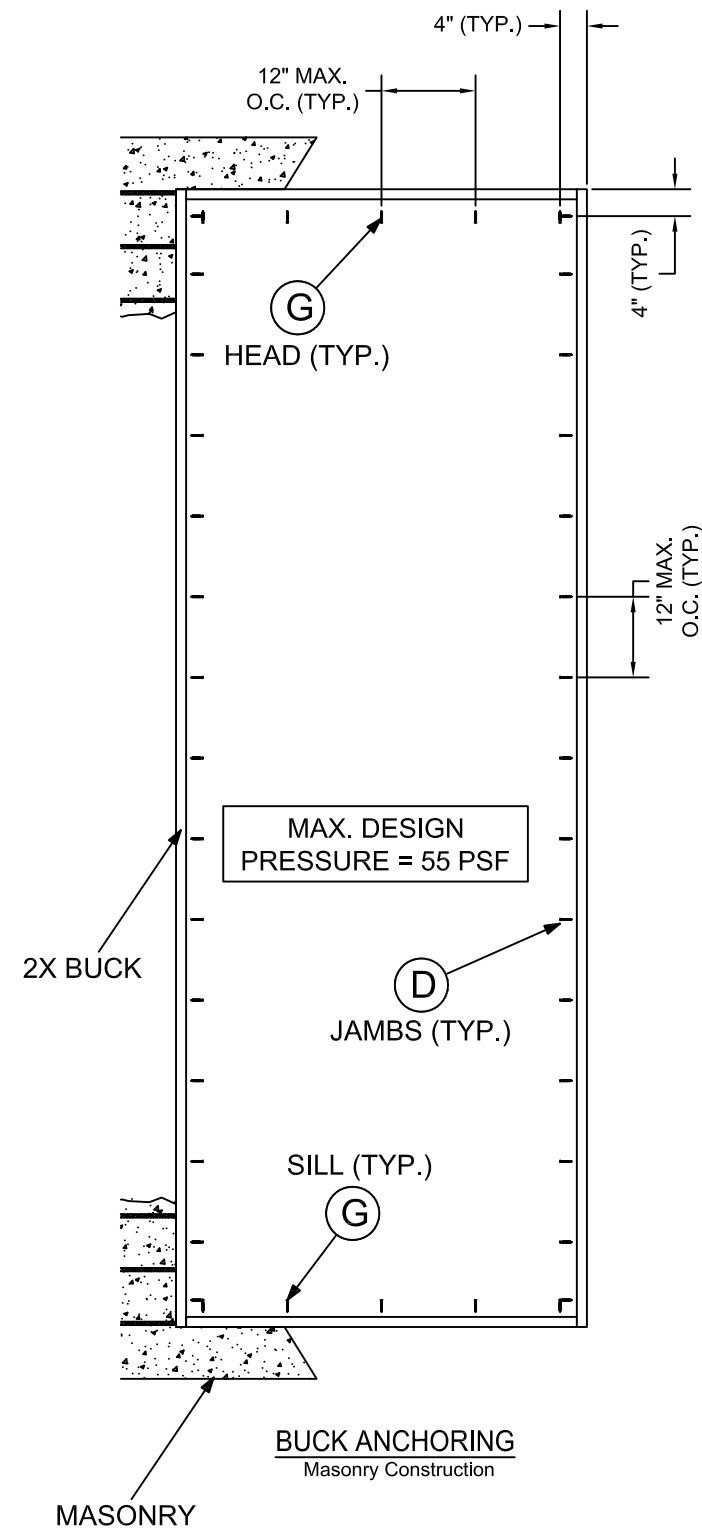
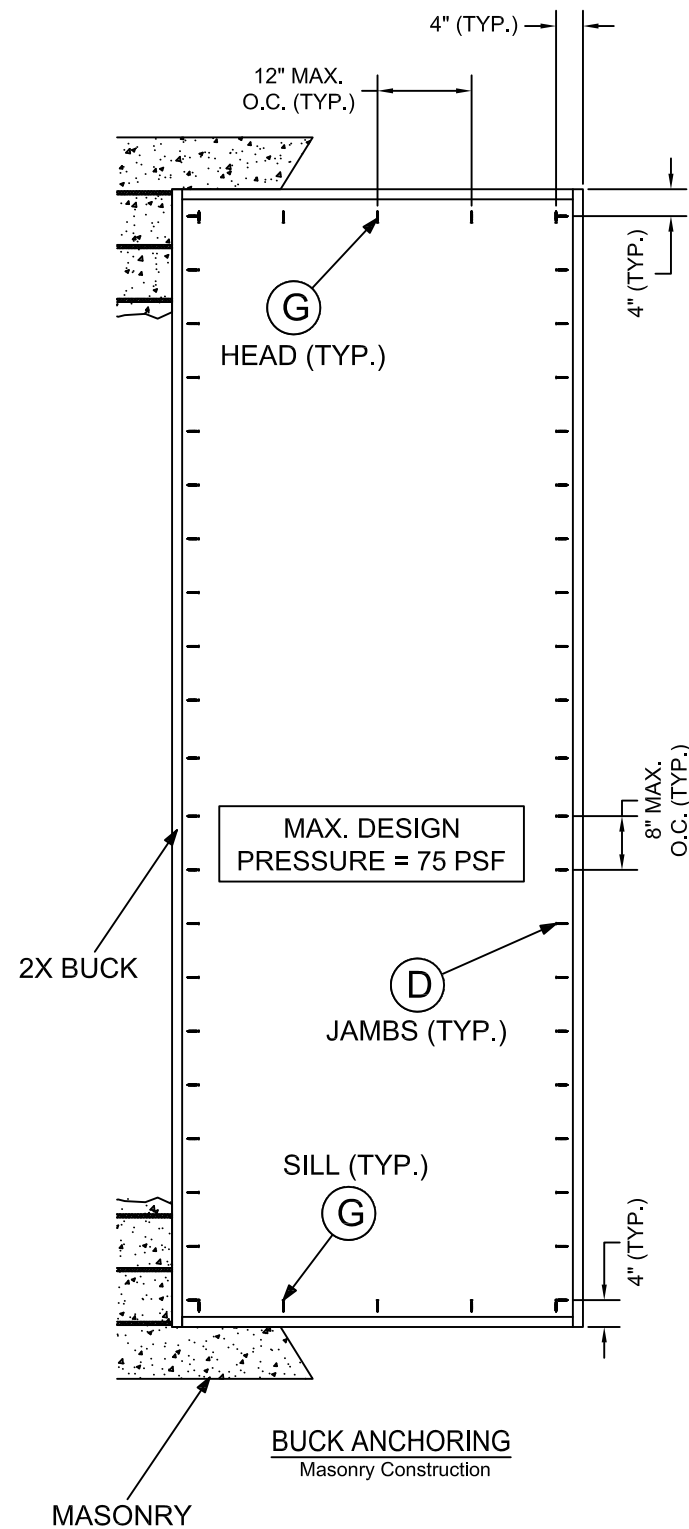
Product: SERIES 4500  
TRIPLE HUNG WEIGHT AND CHAIN WINDOW

VERTICAL CROSS SECTIONS

Date: 04-16-21  
Scale: None  
Drawn: JDS

Dwg: TH-WC  
FL34941.6

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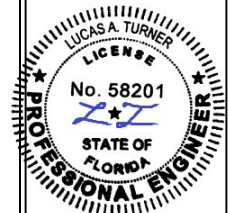
**CONCRETE/MASONRY ANCHOR NOTES:**

1. Concrete/masonry anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. 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.
3. Substrates must not be cracked. Head/sill are solid concrete only. Jambs are solid concrete or hollow or filled CMU.
4. Concrete/masonry anchor table:

| ANCHOR TYPE          | ANCHOR SIZE | MIN. EMBEDMENT     | MIN. CLEARANCE TO MASONRY EDGE | MIN. CLEARANCE TO ADJACENT ANCHOR |
|----------------------|-------------|--------------------|--------------------------------|-----------------------------------|
| (D) DEWALT ULTRACON+ | 1/4"        | 1-1/4" (JAMBS)     | 2-1/2"                         | 4"                                |
| (G) DEWALT ULTRACON+ | 1/4"        | 1-3/4" (HEAD/SILL) | 2-1/2"                         | 4"                                |
| (K) DEWALT ULTRACON+ | 1/4"        | 1-3/4" (HEAD/SILL) | 2-1/2"                         | 2"                                |

**WOOD SCREW INSTALLATION NOTES:**

1. Maintain a minimum 1/2" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



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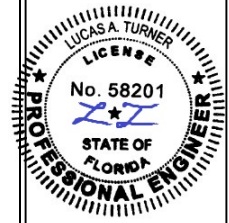
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Date: 04-16-21  
Scale: None  
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BUCK ANCHORING

Dwg: TH-WC  
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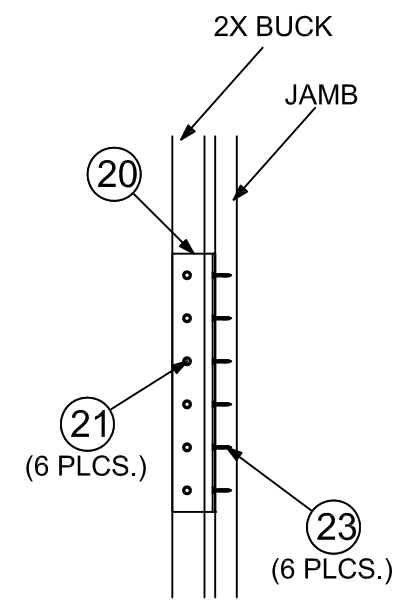
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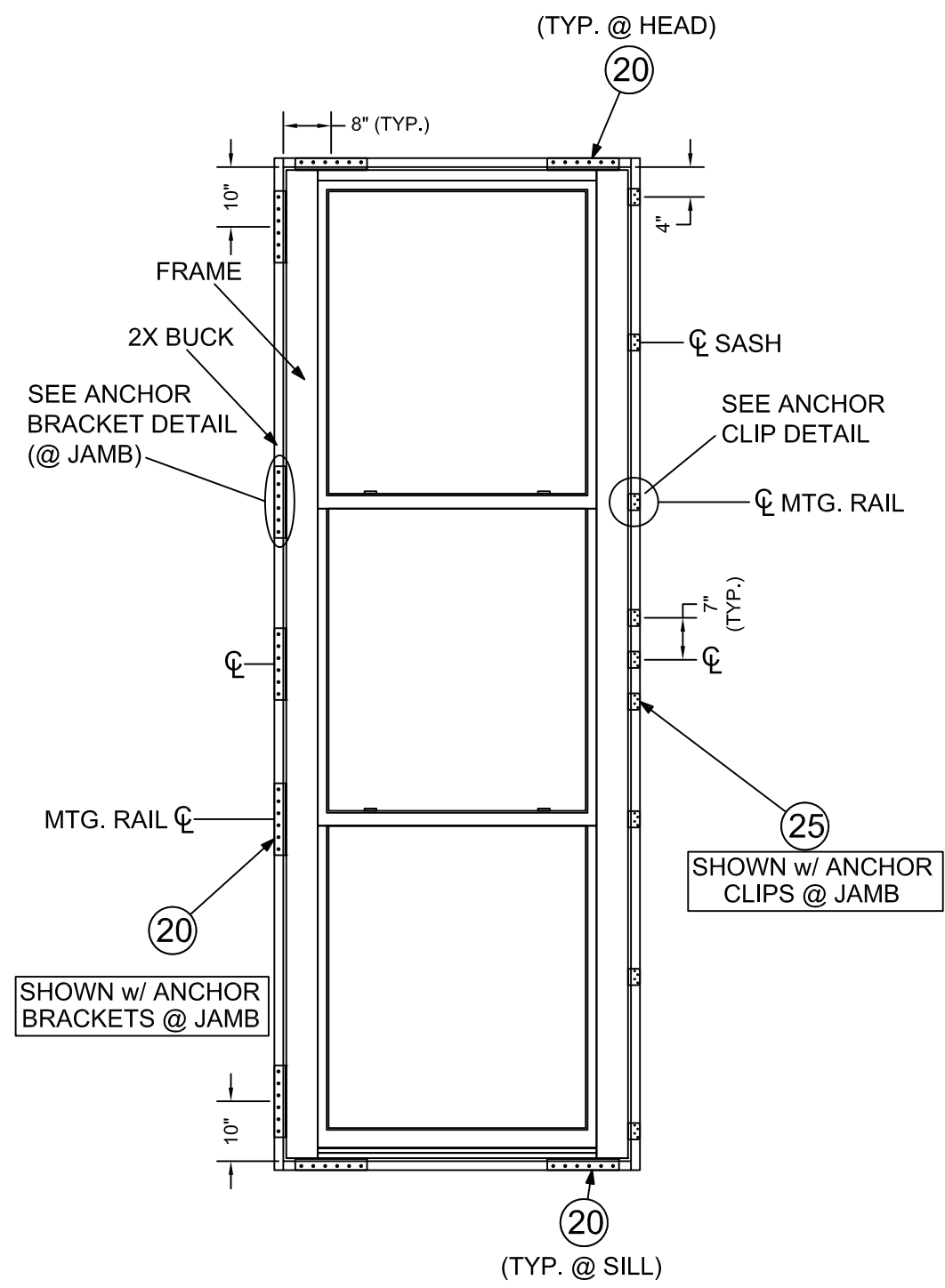
FRAME ANCHORING

Dwg: TH-WC  
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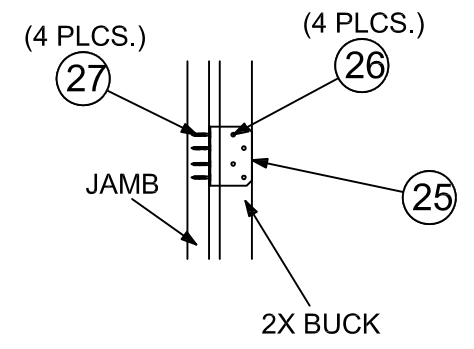
ANCHOR BRACKET DETAIL @ JAMB



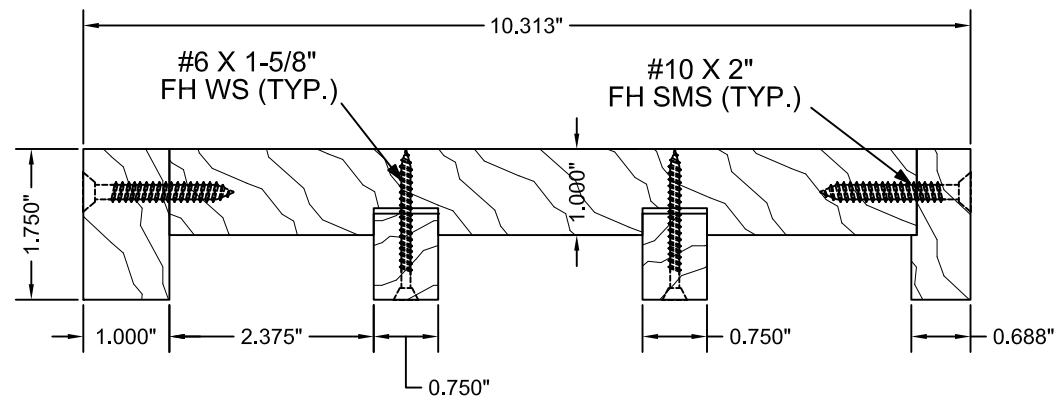
SHOWN w/ ANCHOR BRACKETS @ JAMB

SHOWN w/ ANCHOR CLIPS @ JAMB

FRAME ANCHORING  
 ANCHOR BRACKETS REQUIRED @ HEAD & SILL  
 ANCHOR BRACKETS OR CLIPS REQUIRED @ JAMBS

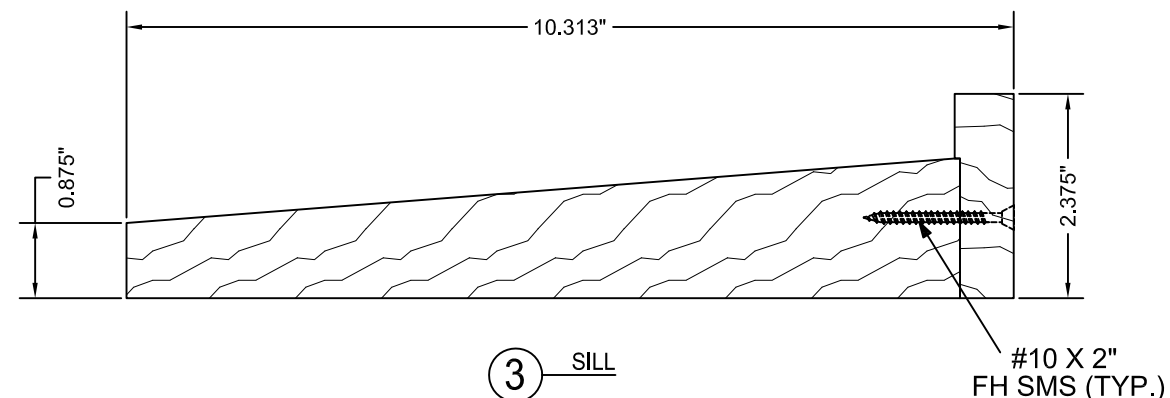


ANCHOR CLIP DETAIL @ JAMB



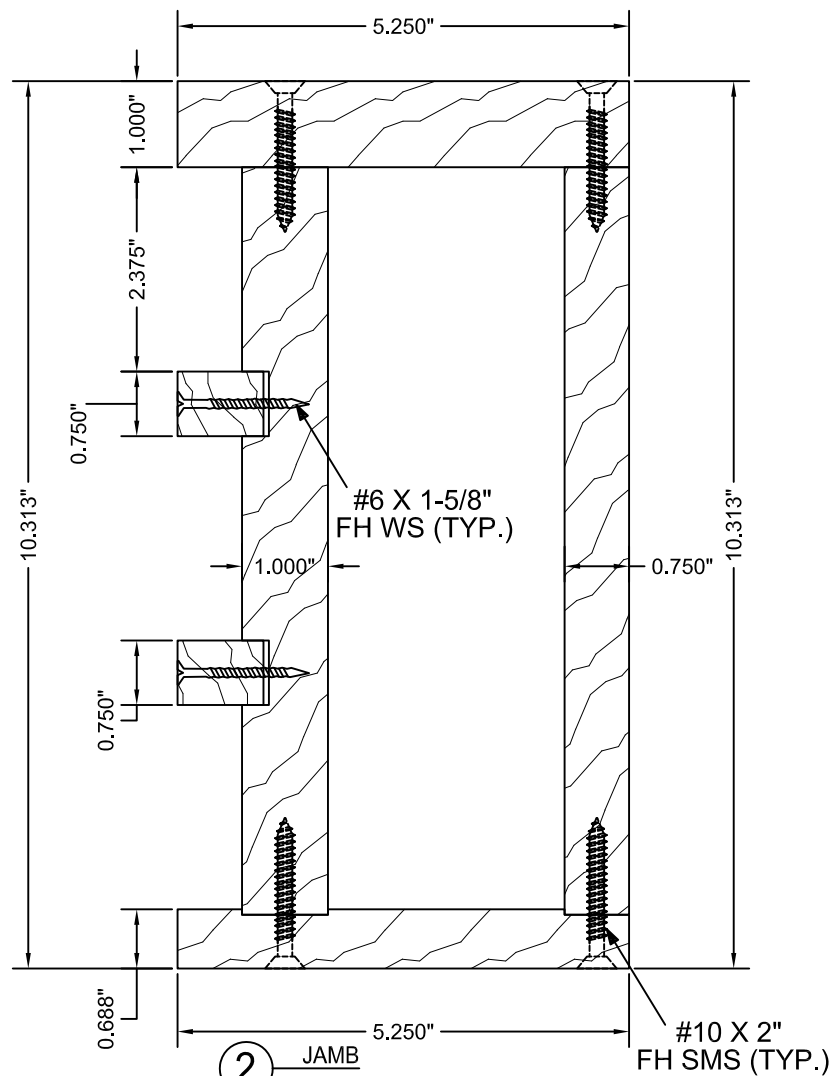
① HEAD

HEAD CONNECTION SCREWS  
INSTALLED @ 3" FROM ENDS & 8" O.C.



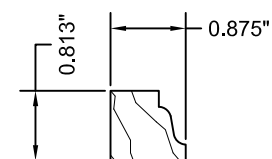
③ SILL

SILL CONNECTION SCREWS  
INSTALLED @ 3" FROM ENDS & 8" O.C.

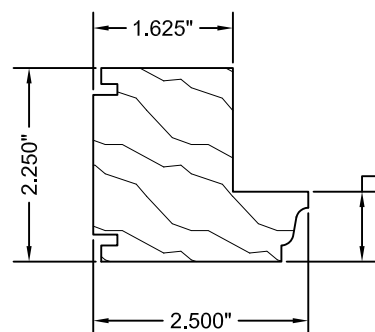


② JAMB

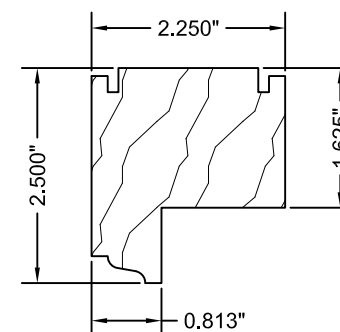
JAMB CONNECTION SCREWS  
INSTALLED @ 3" FROM ENDS & 8" O.C.



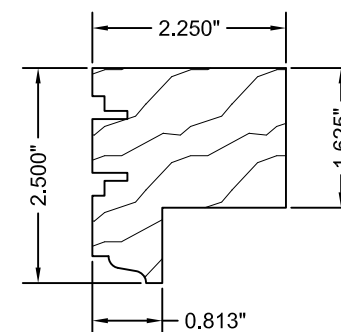
④ GLAZING STOP



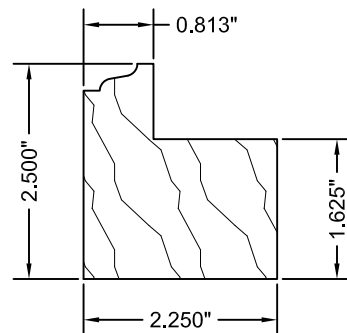
⑤ SASH STILE



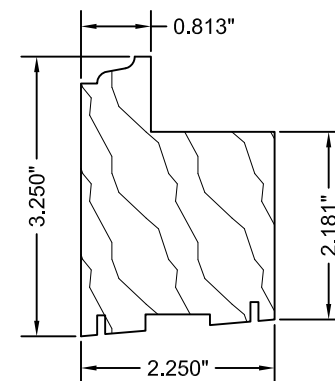
⑧ TOP RAIL  
Top Sash



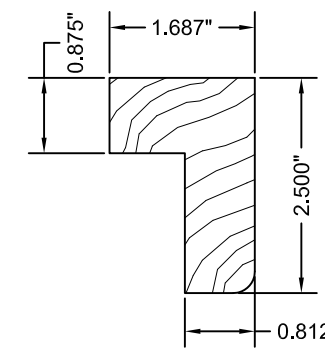
⑨ BOTTOM RAIL  
Top Sash



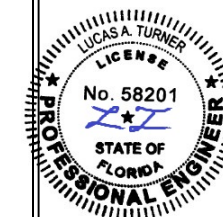
⑩ TOP RAIL  
Bottom Sash



⑪ BOTTOM RAIL  
Bottom Sash



⑫ MEETING RAIL



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Product: SERIES 4500  
TRIPLE HUNG WEIGHT AND CHAIN WINDOW

Date: 04-16-21

Scale: None

Drawn: JDS

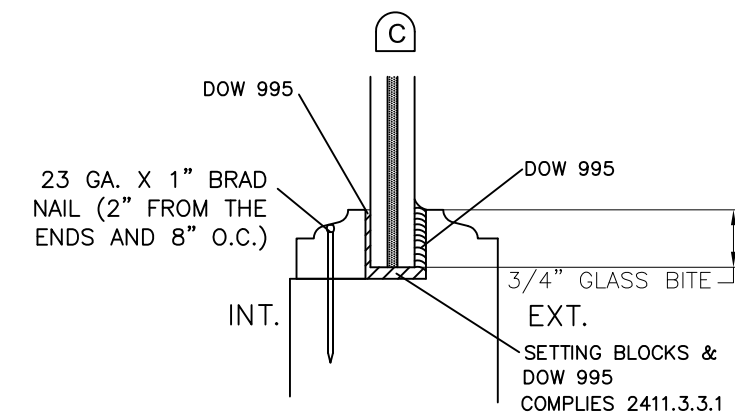
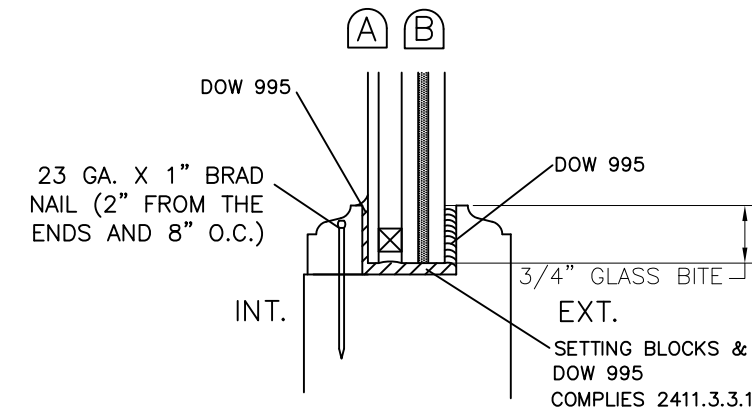
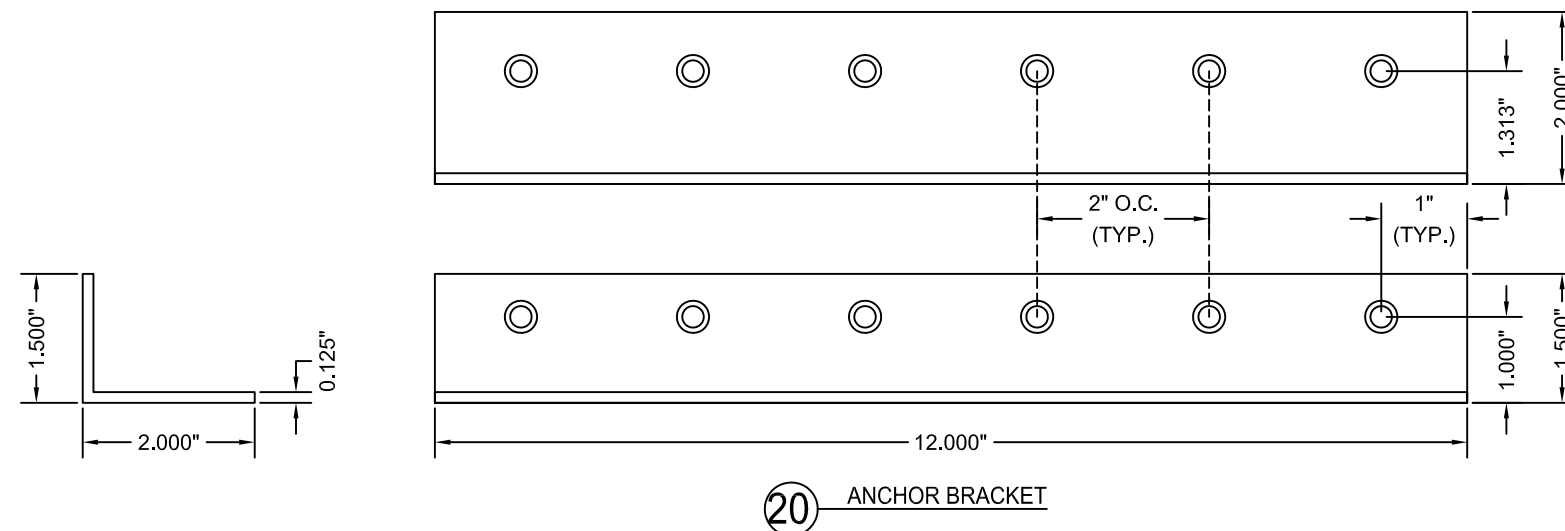
COMPONENTS

Dwg: TH-WC  
FL34941.6

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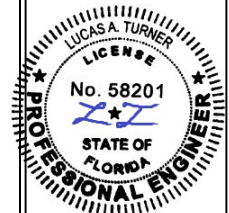
| BILL OF MATERIALS |  |                 |
|-------------------|--|-----------------|
| ITEM #            | DESCRIPTION  | MATERIAL        |
| A                 | DOUBLE 2X BUCK (G >= 0.55)   |                 |
| B                 | 2X BUCK (G >= 0.55)  | WOOD            |
| C                 | 1/2" MAX. SHIM SPACE   | -               |
| D                 | 1/4" X 2-3/4" DEWALT ULTRACON+ PFH   | STEEL           |
| E                 | MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90 | CONCRETE        |
| F                 | #10 X 2-1/4" PFH WOOD SCREW (1-3/8" MIN. EMBEDMENT)  | STEEL           |
| G                 | 1/4" X 3-1/4" DEWALT ULTRACON+ PFH   | STEEL           |
| K                 | 1/4" X 2-3/4" DEWALT ULTRACON+ PFH   | STEEL           |
| 1                 | HEAD   | WOOD            |
| 2                 | JAMB   | WOOD            |
| 3                 | SILL   | WOOD            |
| 4                 | GLAZING STOP   | WOOD            |
| 5                 | SASH STILE   | WOOD            |
| 6                 | WEATHERSTRIP QEZD250 BY SCHLEGEL   | FOAM            |
| 7                 | WEATHERSTRIP QEZD260 BY SCHLEGEL   | FOAM            |
| 8                 | TOP RAIL (TOP SASH)  | WOOD            |
| 9                 | BOTTOM RAIL (TOP SASH)   | WOOD            |
| 10                | TOP RAIL (BOTTOM SASH)   | WOOD            |
| 11                | BOTTOM RAIL (BOTTOM SASH)  | WOOD            |
| 12                | MEETING RAIL   | WOOD            |
| 14                | SILL EXTENDER  | WOOD            |
| 15                | SASH COUNTERWEIGHT (53 LBS.)   | STEEL           |
| 16                | PHELPS LOCK  | -               |
| 20                | ANCHOR BRACKET (12" LONG)  | ALUMINUM        |
| 21                | #8 X 2" SPAX® SCREWS (1-7/8" MIN. EMBEDMENT)   | STAINLESS STEEL |
| 22                | #8 X 1-1/2" FH SMS   | STEEL           |
| 23                | #8 X 1" FH SMS   | STEEL           |
| 25                | ANCHOR CLIP (Simpson Strong-Tie A23Z)  | STEEL           |
| 26                | #10 X 1-1/4" PH SMS (1-3/16" MIN. EMBEDMENT)   | STEEL           |
| 27                | #10 X 3/4" PH SMS  | STEEL           |

NOTE: ALL WINDOW FRAME WOOD IS SG=0.55 MIN. (SAPELE OR SIMILAR)



GLASS TYPES AND STRUCTURE

- A** 15/16" (NOM.) LAMINATED INSULATING GLASS  
3/16" ANNEALED OR TEMPERED INT. LITE /  
1/4" AIR SPACE WITH ALUMINUM SPACER /  
3/16" ANNEALED  
.090" INTERLAYER: SAFLEX HP BY  
EASTMAN CHEMICAL COMPANY /  
3/16" ANNEALED
- B** 15/16" (NOM.) LAMINATED INSULATING GLASS  
3/16" ANNEALED OR TEMPERED INT. LITE /  
1/4" AIR SPACE WITH ALUMINUM SPACER /  
3/16" ANNEALED  
.090" INTERLAYER: SENTRYGLAS BY KURARAY /  
3/16" ANNEALED
- C** 7/16" (NOM.) STORM GLASS  
3/16" ANNEALED /  
.075" INTERLAYER: SAFLEX CP BY  
EASTMAN CHEMICAL COMPANY /  
3/16" ANNEALED



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BILL OF MATERIALS, GLAZING  
DETAILS & COMPONENTS

Dwg: TH-WC  
FL34941.6

Sheet No.  
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