

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	ADDED MULTILITE PANELS & TRIMS	08/17/2021	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING, METAL STRUCTURE AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. FRAME MATERIAL: WOOD WITH G=.46 MINIMUM SPECIFIC GRAVITY, OR COMPOSITE, OR FRAMESAVER, OR FUSION FRAME.  
DOOR SKIN MATERIAL: STEEL .033" THICK (MINIMUM)  
SIDELITE SKIN MATERIAL: STEEL .022" THICK (MINIMUM)
6. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 13 FOR GLASS DETAILS.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
8. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. FOR ANCHORING INTO METAL STRUCTURE USE #10 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

12. ALL FASTENERS TO BE CORROSION RESISTANT.
13. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
  - A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
  - B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
  - C. MASONRY – GROUT FILLED STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
  - D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .048" THICK MINIMUM
14. DOOR CONSTRUCTION MAYBE CONTINUOUS HEAD FRAME AND CONTINUOUS THRESHOLD OR BOX CONSTRUCTION.

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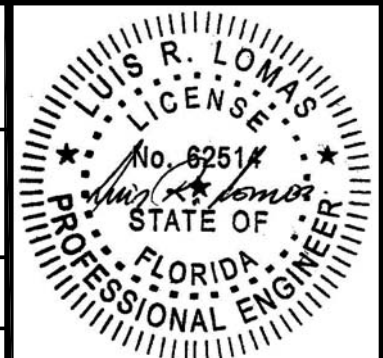
**PROVIA, LLC.**  
2150 STATE ROUTE 39 WEST  
SUGARCREEK, OH 44681

**STEEL OUTSWING GLAZED DOUBLE DOOR  
W/SIDELITES & TRANSOM – IMPACT  
NOTES**

DRAWN: J.L.	DWG NO. 08-02024	REV H
SCALE NTS	DATE 04/23/13	SHEET 1 OF 17

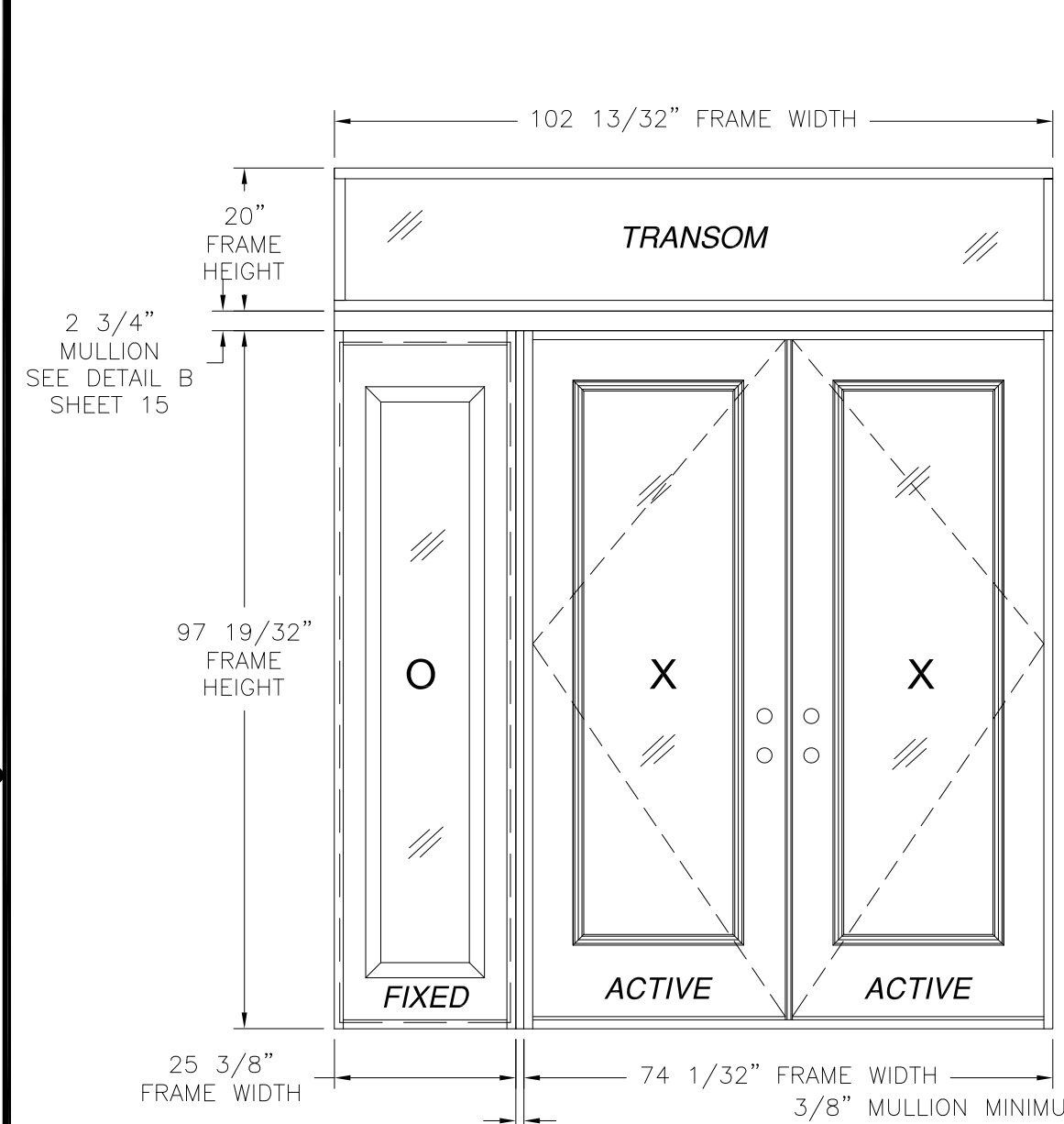
L. ROBERTO LOMAS P.E.  
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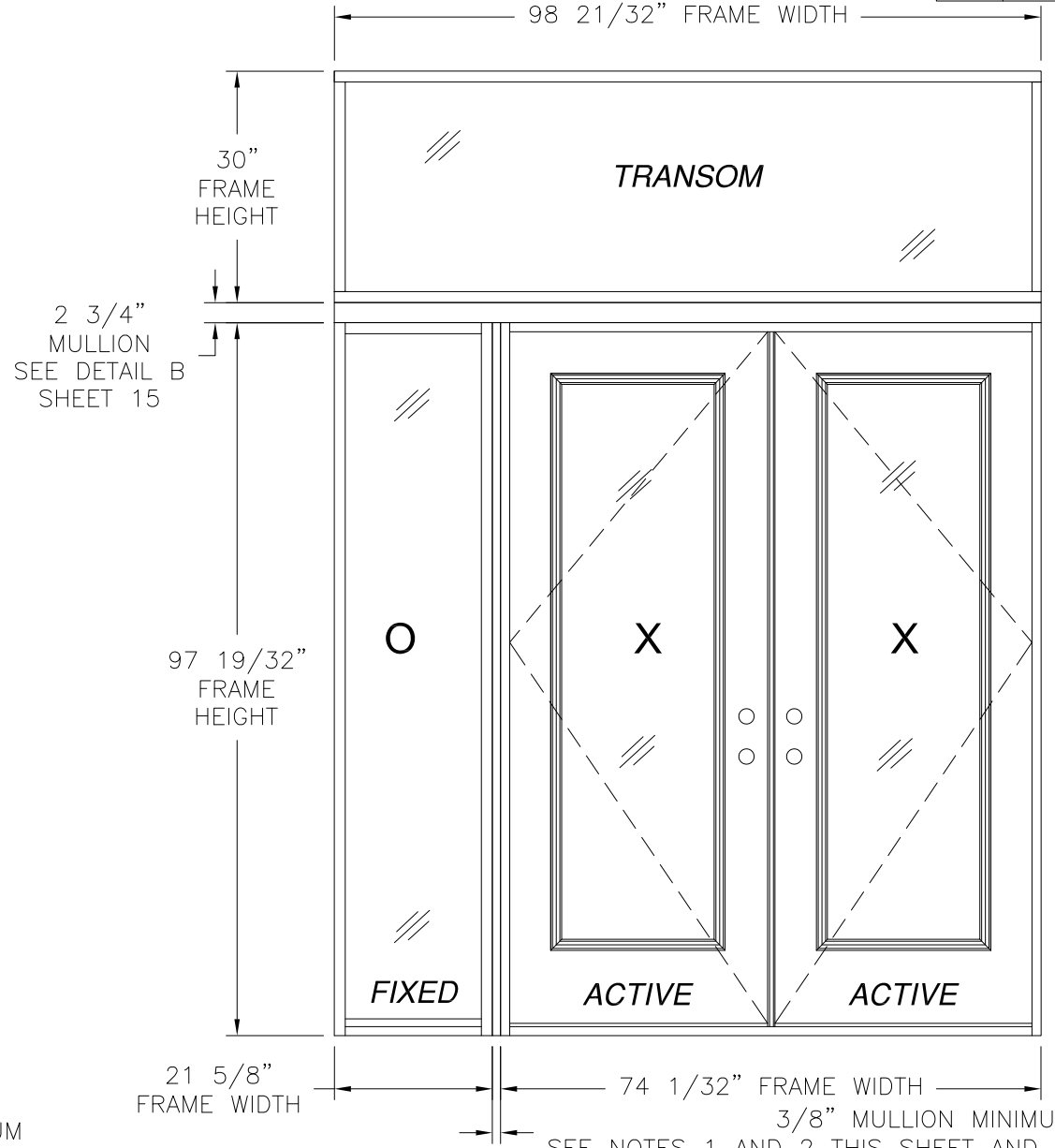


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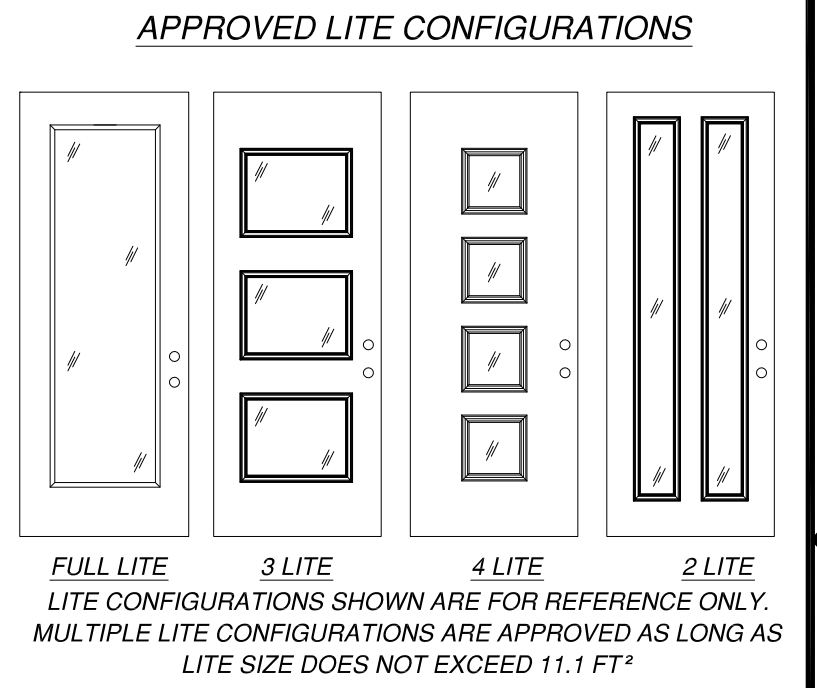
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**DOUBLE DOOR W/ STD SIDELITE AND TRANSOM**  
EXTERIOR VIEW  
OXX SHOWN XXO ALSO APPROVED



**DOUBLE DOOR W/ DIRECT SET SIDELITE AND TRANSOM**  
EXTERIOR VIEW  
OXX SHOWN XXO ALSO APPROVED



DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

35 3/4" x 94 15/16" PANEL SIZE SHOWN. OTHER SIZES ARE APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 23.56 FT<sup>2</sup>

- NOTES:
1. MAXIMUM ALLOWED BUILDUP TO BE 3" AT VERTICAL MULLION.
  2. IF SIDELITE WIDTH IS 16" OR LESS NO VERTICAL MULLION IS REQUIRED.

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STEEL OUTSWING GLAZED DOUBLE DOOR  
W/SIDELITES & TRANSOM - IMPACT  
ELEVATIONS

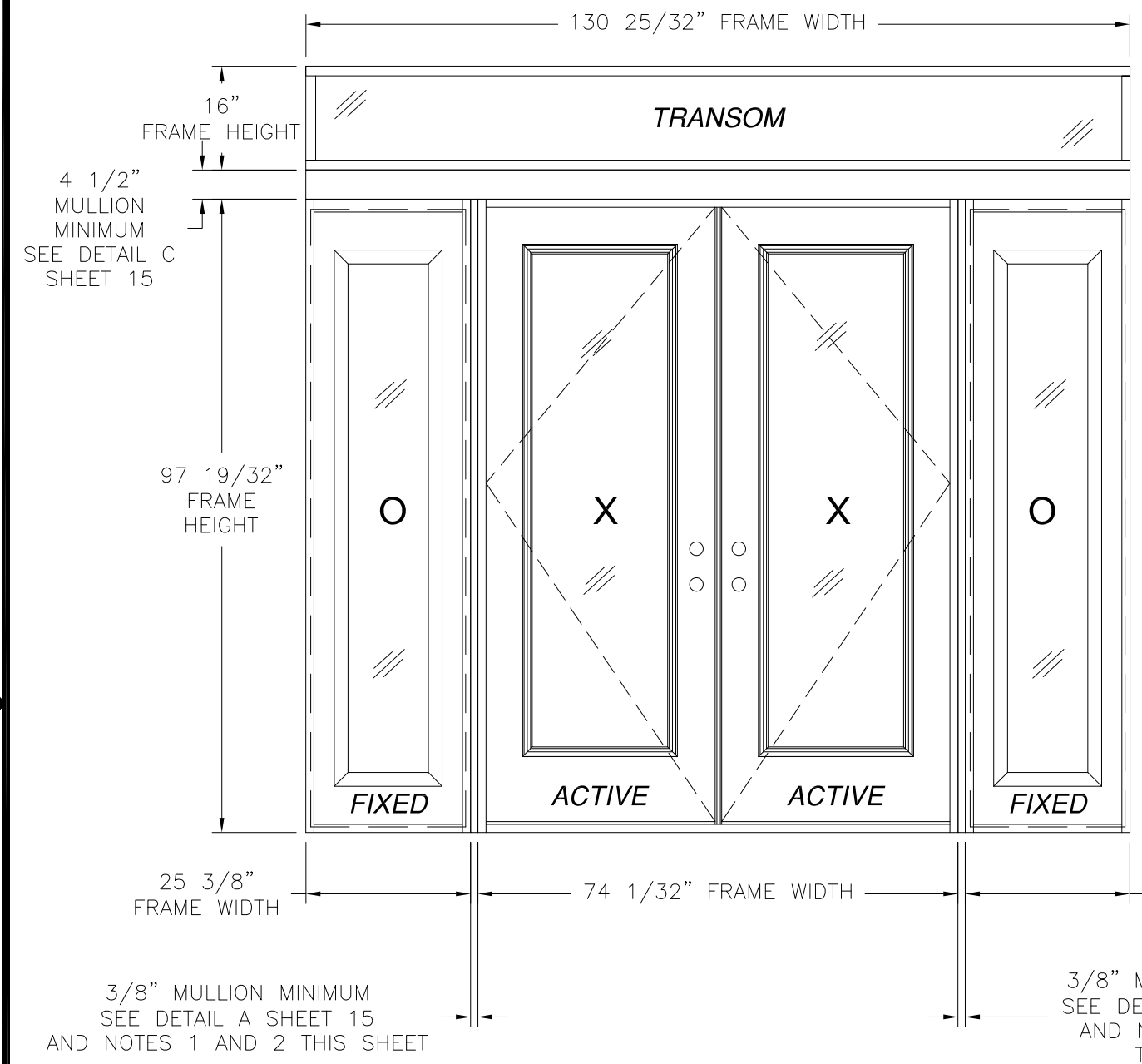
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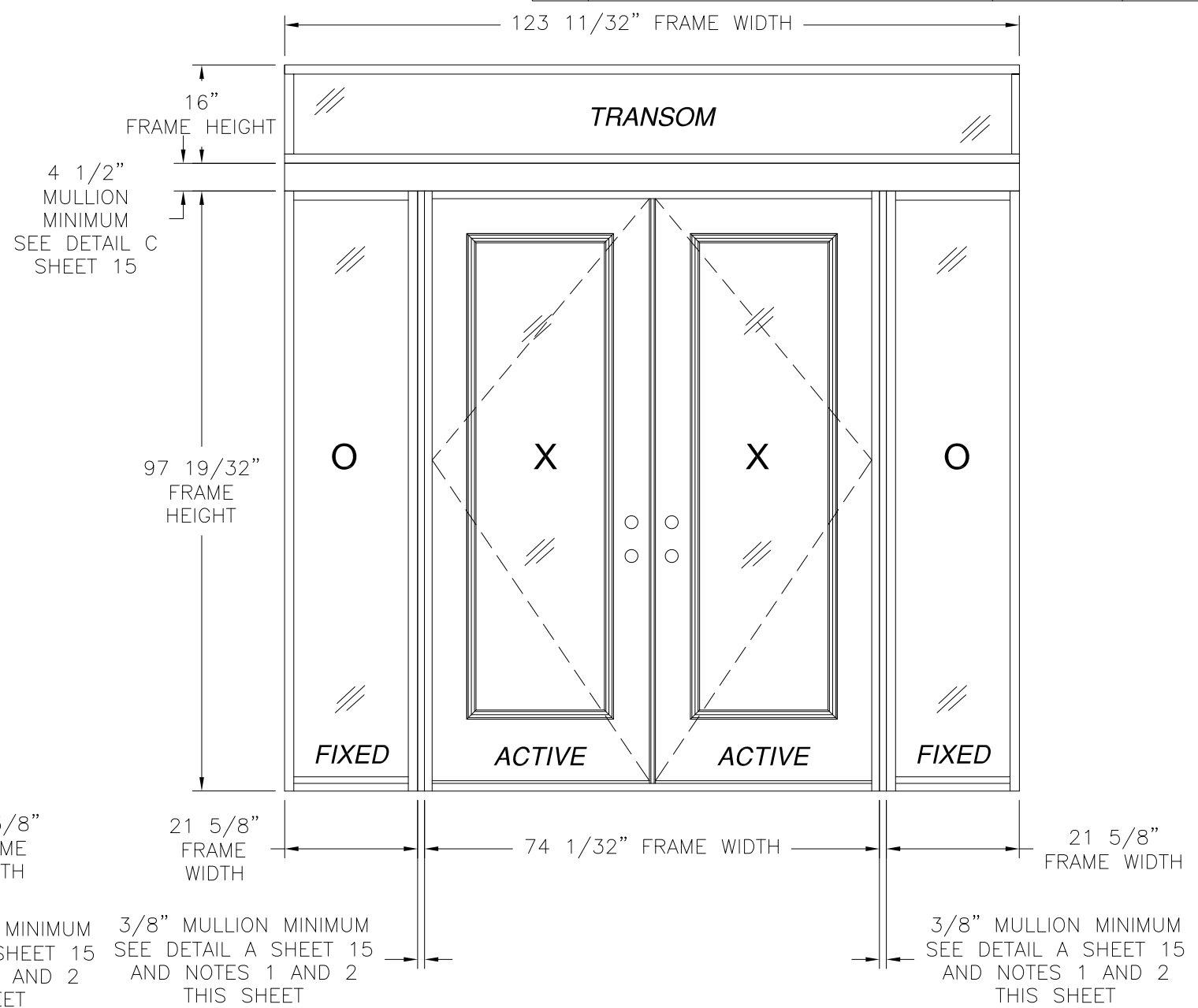
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**DOUBLE DOOR W/ STD SIDELITES AND TRANSOM**  
EXTERIOR VIEW



**DOUBLE DOOR W/ DIRECT SET SIDELITES AND TRANSOM**  
EXTERIOR VIEW

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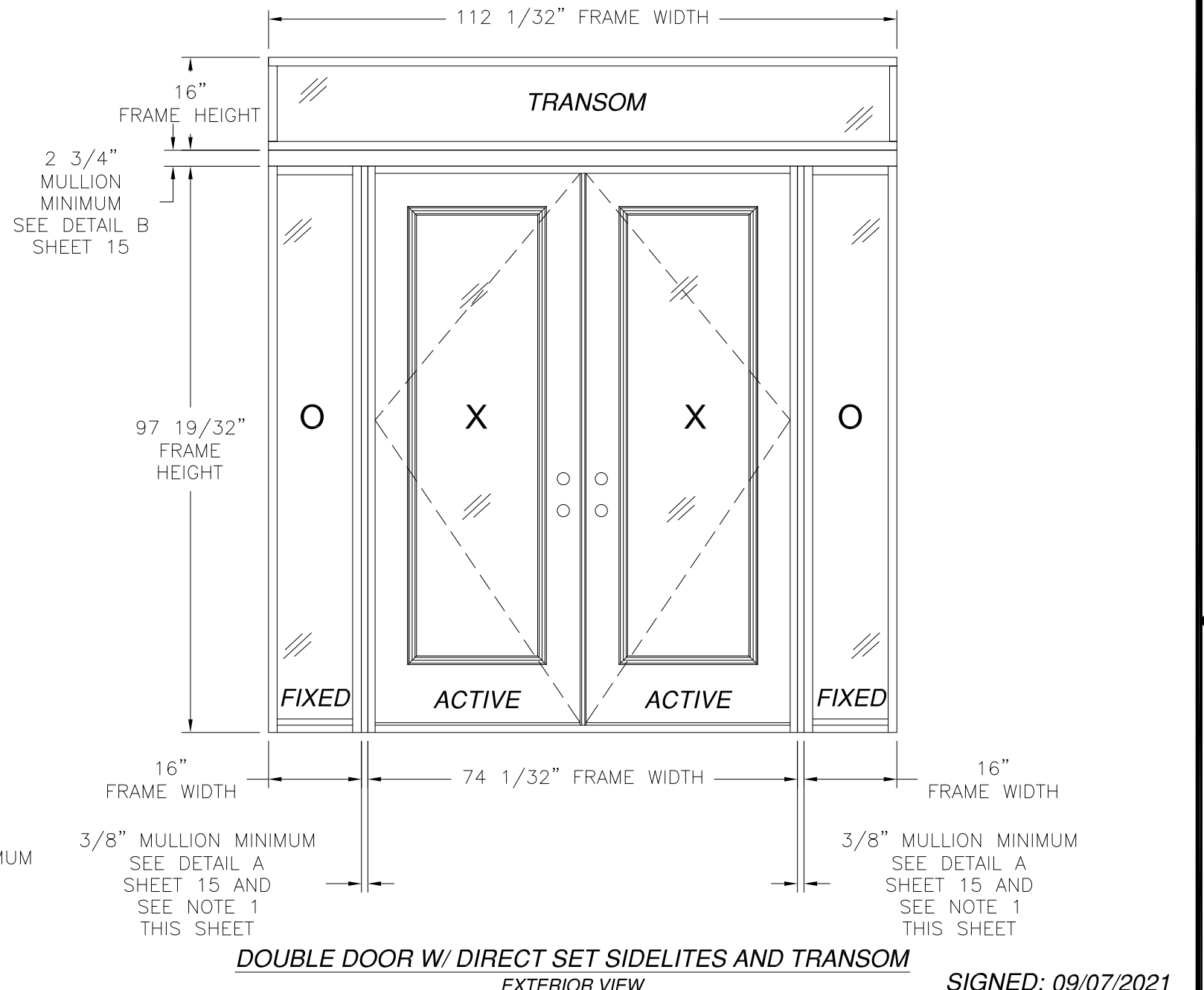
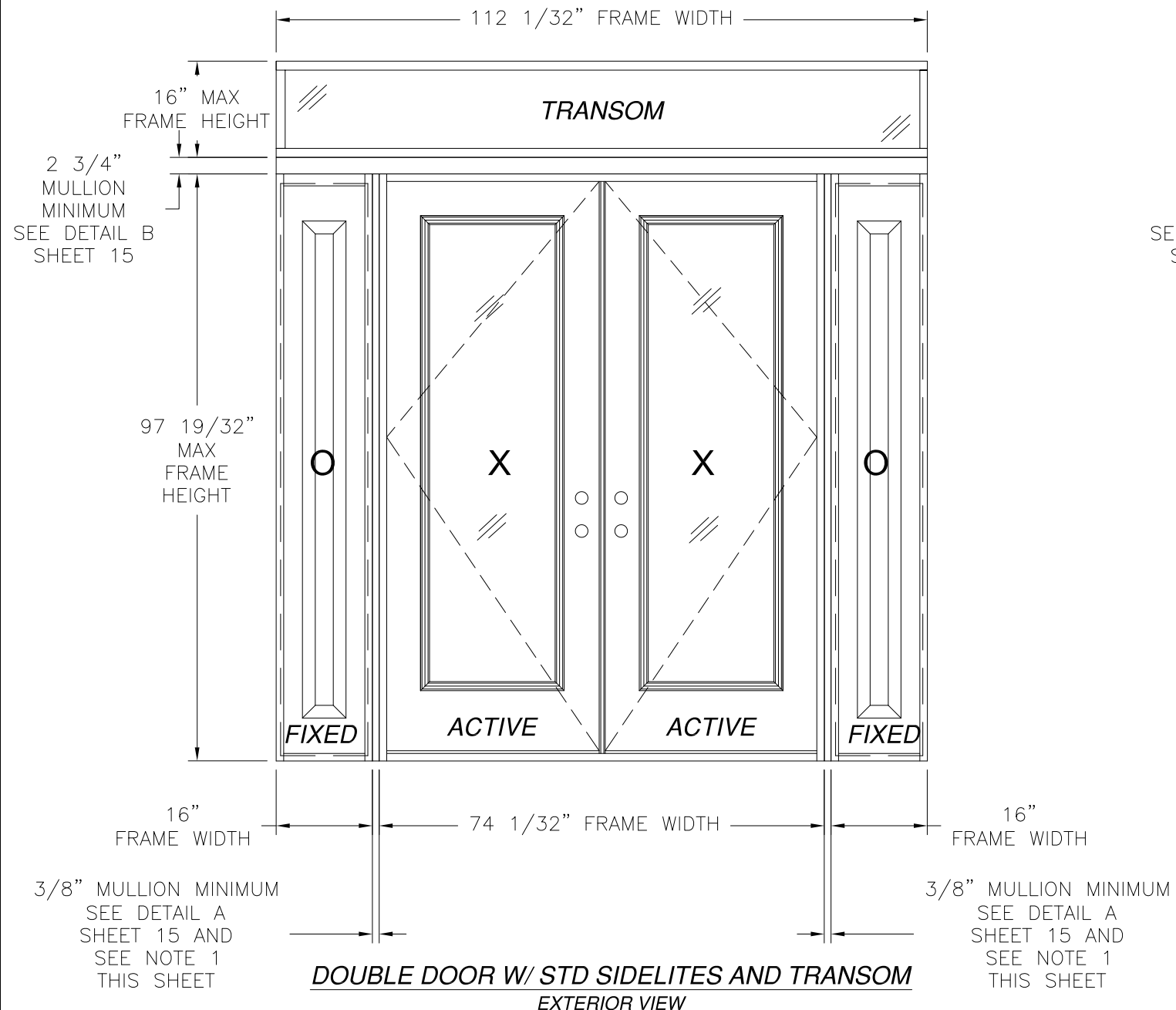
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ELEVATION AND APPROVED CONFIGURATIONS

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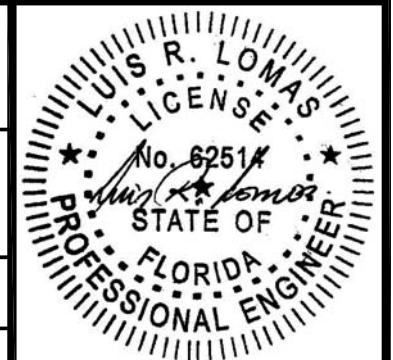
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ELEVATION AND APPROVED CONFIGURATIONS

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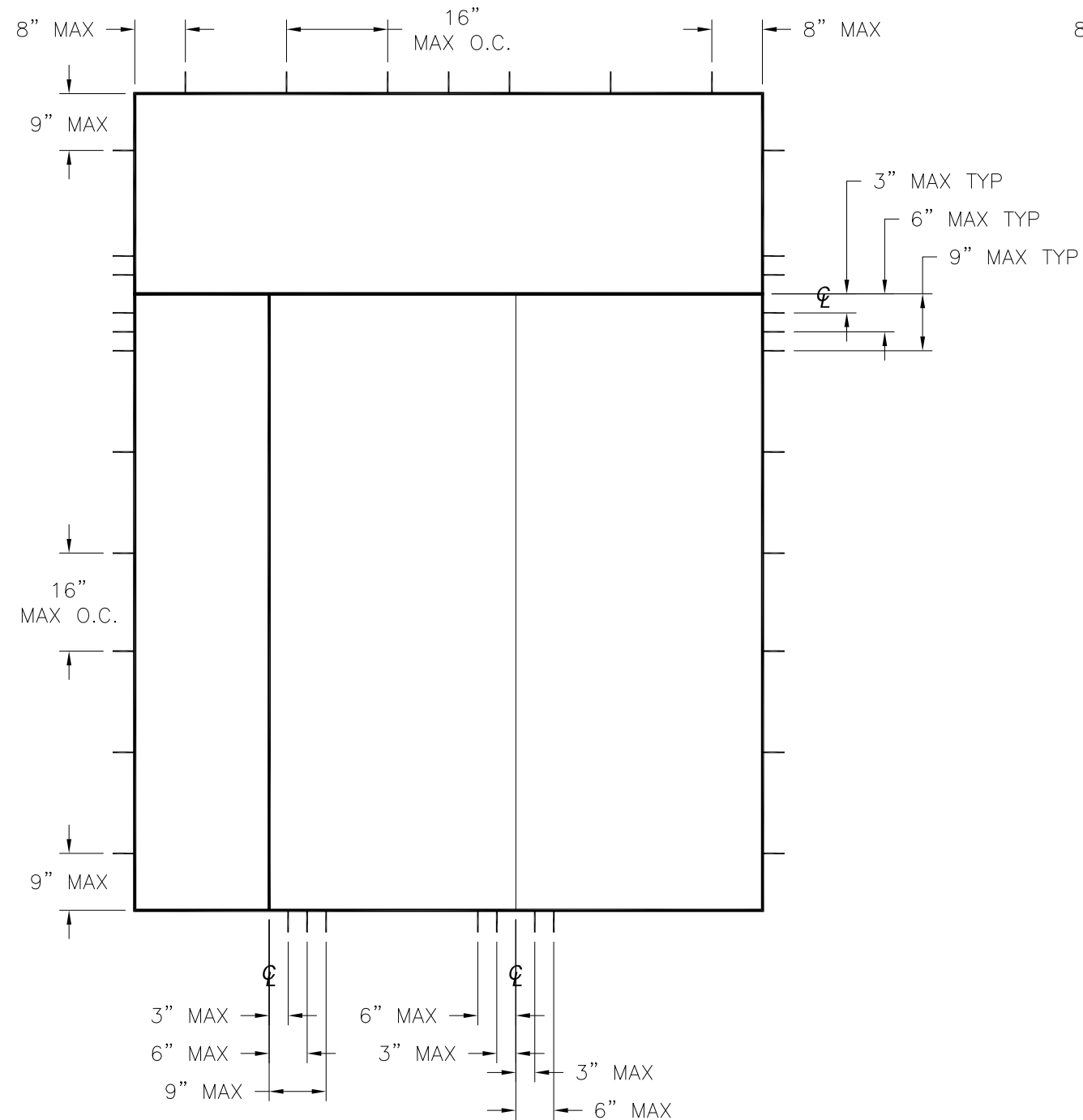
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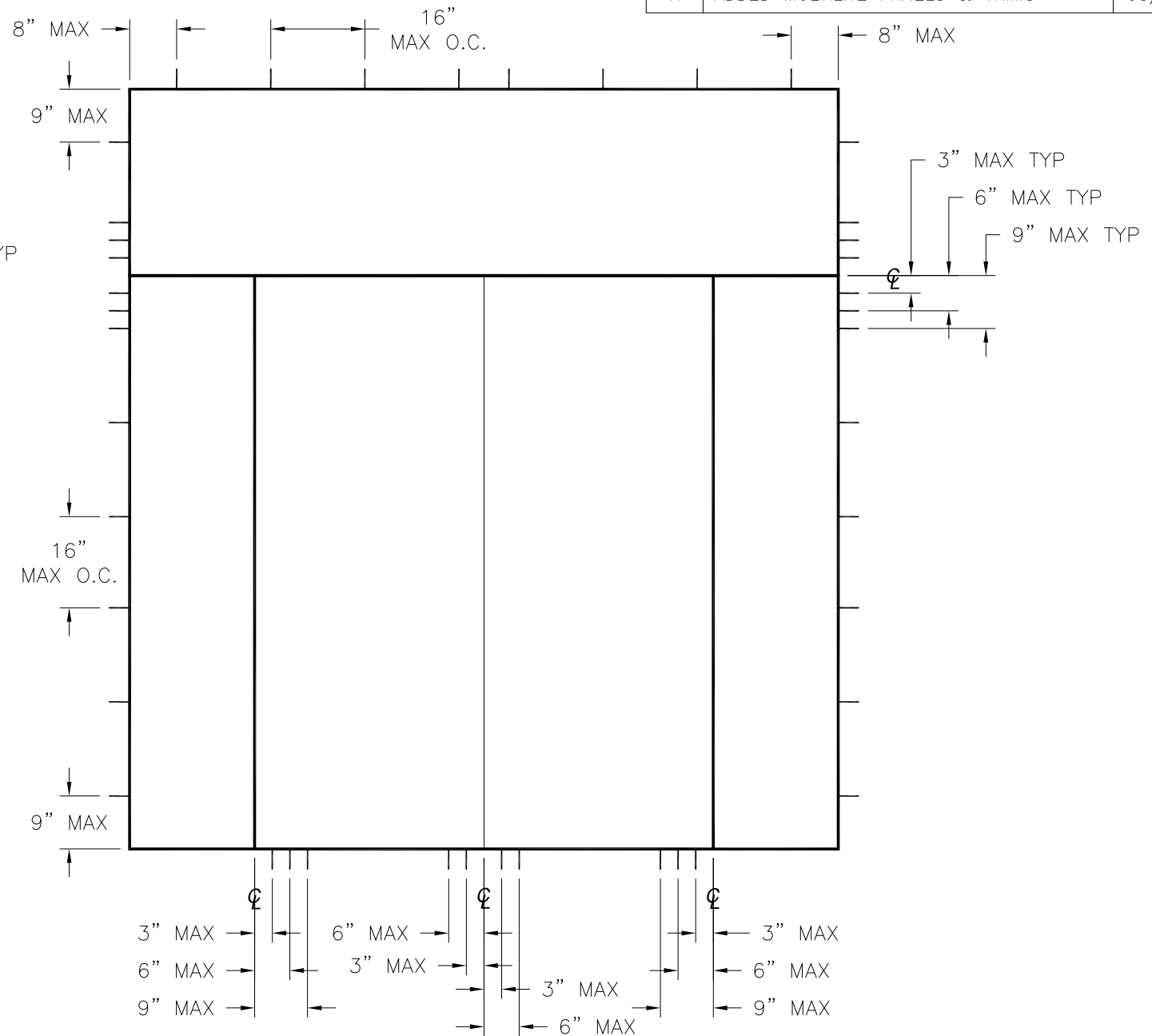


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**DOUBLE DOOR W/SIDELITE AND TRANSOM**  
ANCHORING LAYOUT



**DOUBLE DOOR W/SIDELITES AND TRANSOM**  
ANCHORING LAYOUT

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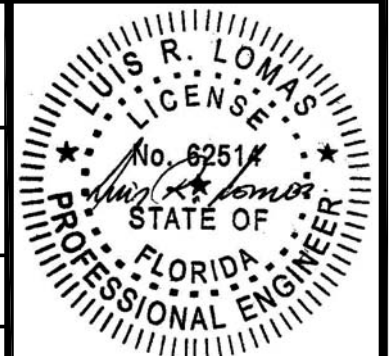
HARDWARE SCHEDULE	
A.	F-SERIES LOCK ASSEMBLY DOOR KNOB BY SCHLAGE.
B.	B-SERIES DEADBOLT ASSEMBLY BY SCHLAGE.
C.	F-SERIES DEADBOLT ASSEMBLY BY SCHLAGE.
D.	RESIDENTIAL GRADE DOOR HANDLE ASSEMBLY BY EMTEK (ALTERNATE).
E.	MULTI-POINT LOCK HANDLE ASSEMBLY BY TRILENNIUM (ALTERNATE).
F.	(3) 4" x 4" BALL BEARING HINGES BY PENROD.
G.	(3) 4" x 4" SPRING BOMMER HINGES BY PENROD. (ALTERNATE)

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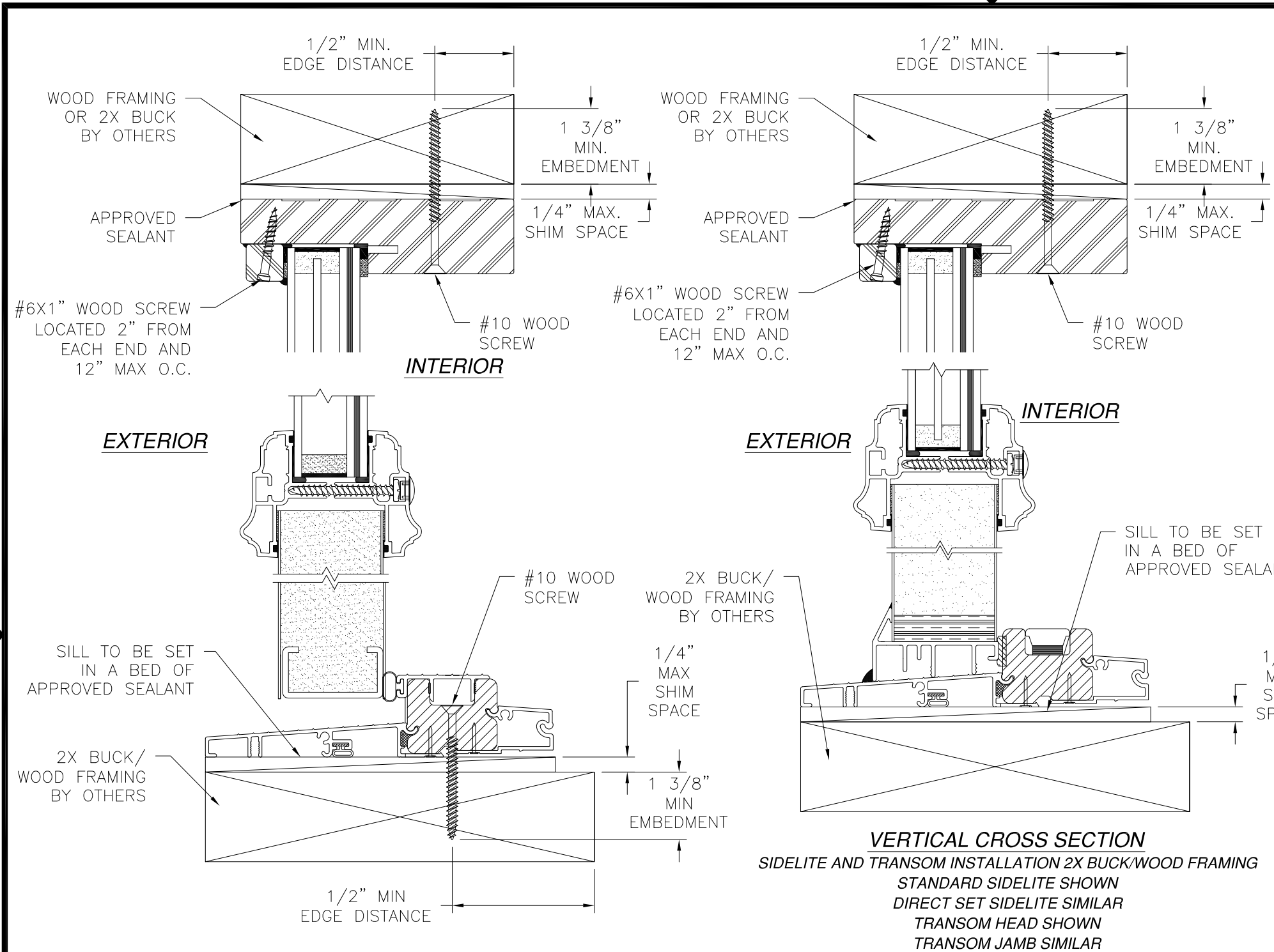
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ANCHORING LAYOUTS

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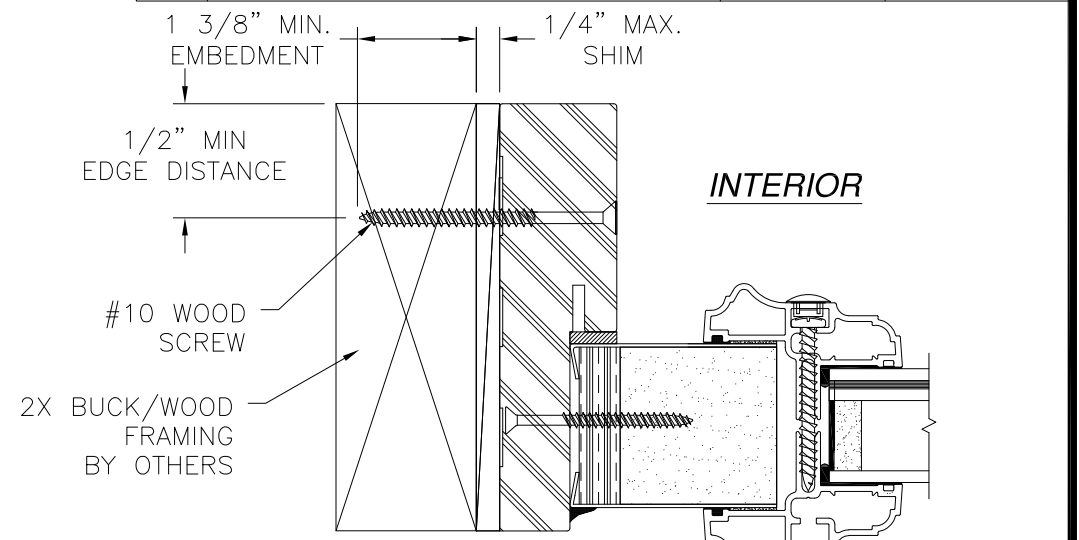
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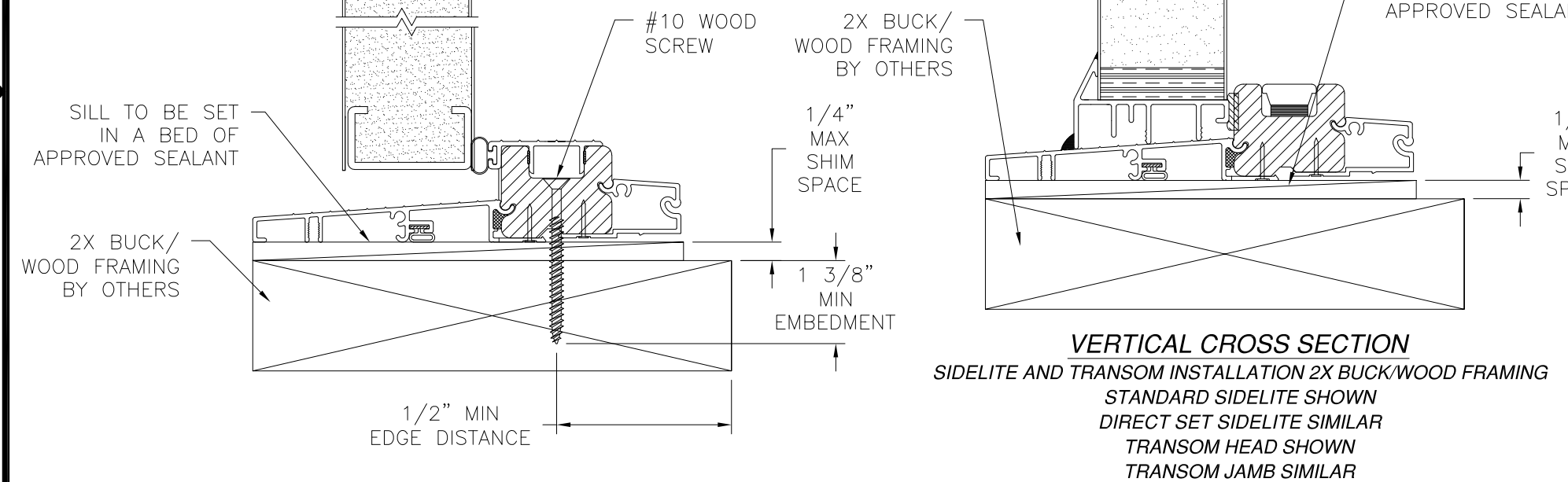
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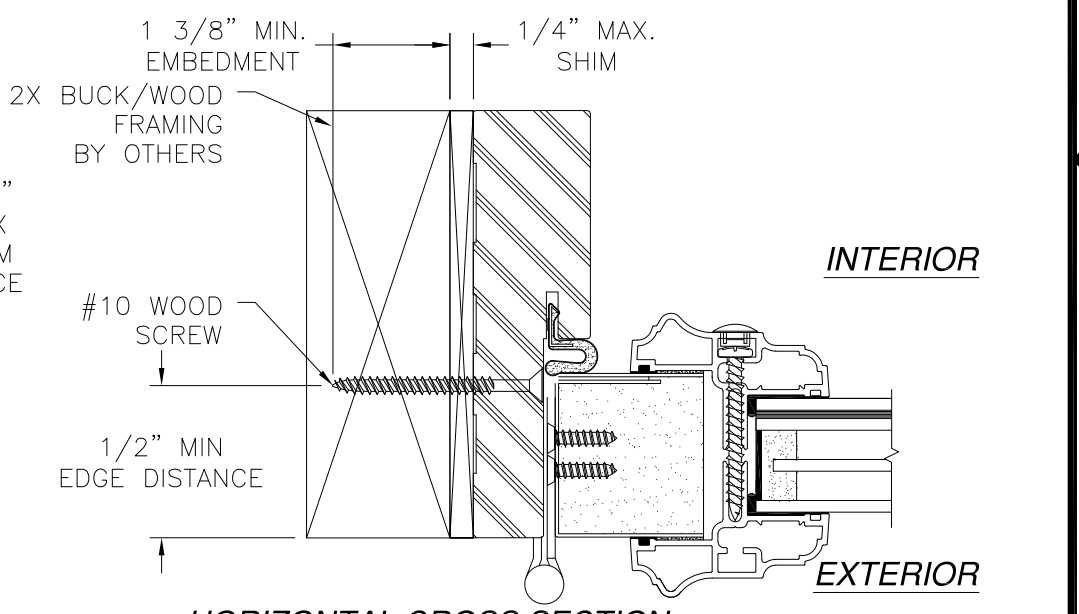
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**HORIZONTAL CROSS SECTION**  
 SIDELITE INSTALLATION 2X BUCK/WOOD FRAMING  
 STANDARD SIDELITE SHOWN  
 DIRECT SET SIDELITE SIMILAR



**VERTICAL CROSS SECTION**  
 DOOR AND TRANSOM INSTALLATION - 2X BUCK/WOOD FRAMING  
 TRANSOM HEAD SHOWN  
 TRANSOM JAMB SIMILAR



**HORIZONTAL CROSS SECTION**  
 DOOR INSTALLATION - 2X BUCK/WOOD FRAMING

- NOTES:
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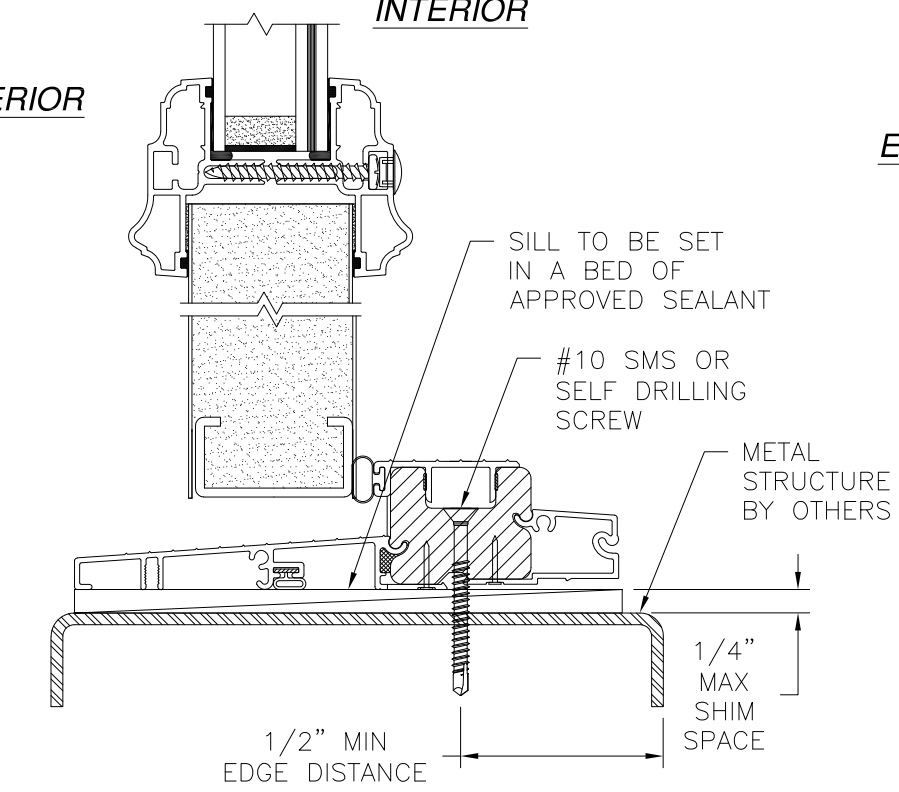
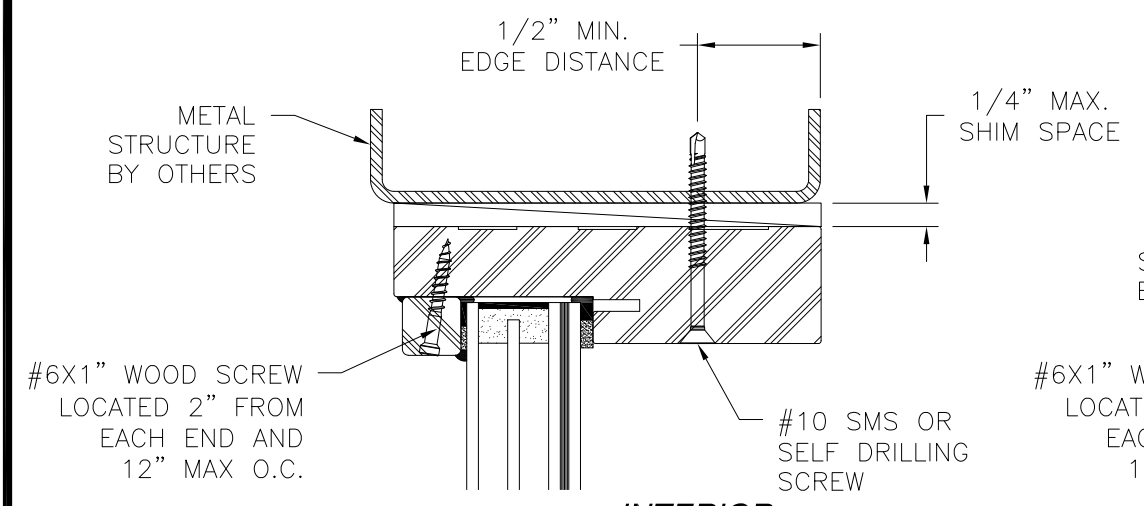
STEEL OUTSWING GLAZED DOUBLE DOOR  
 W/SIDELITES & TRANSOM - IMPACT  
 INSTALLATION DETAILS

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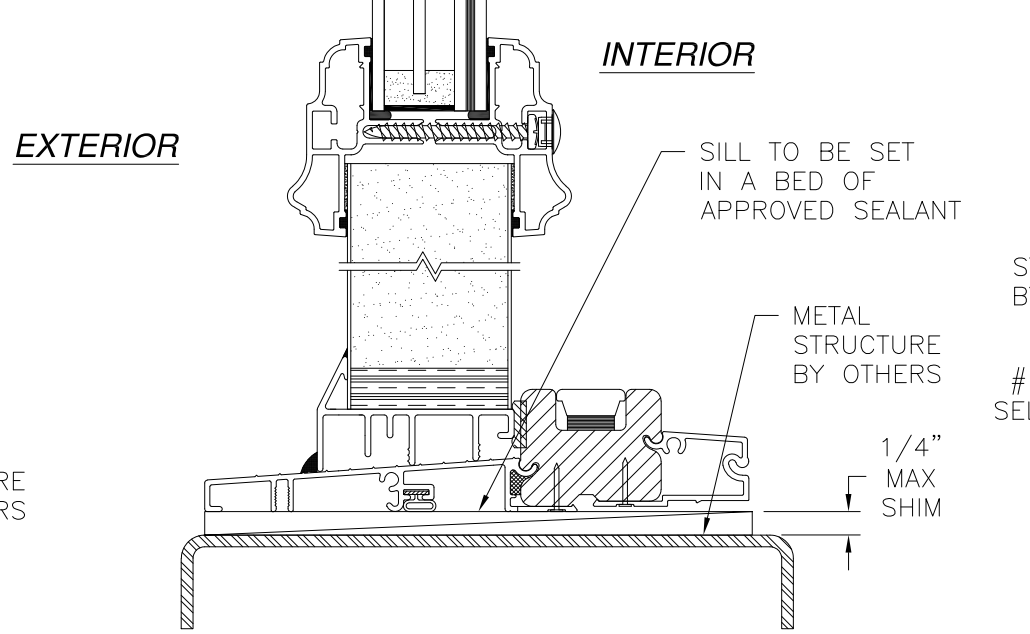
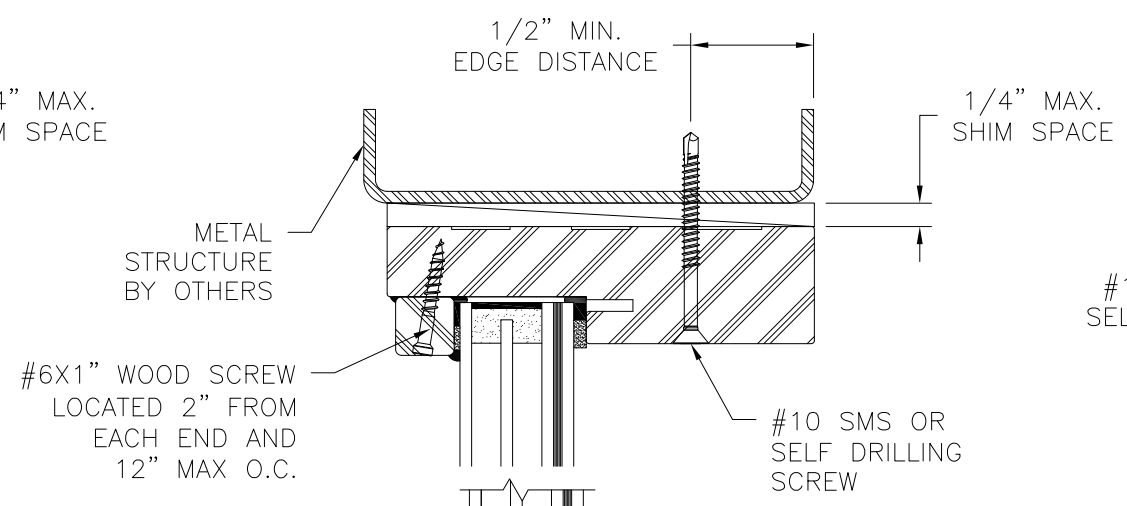
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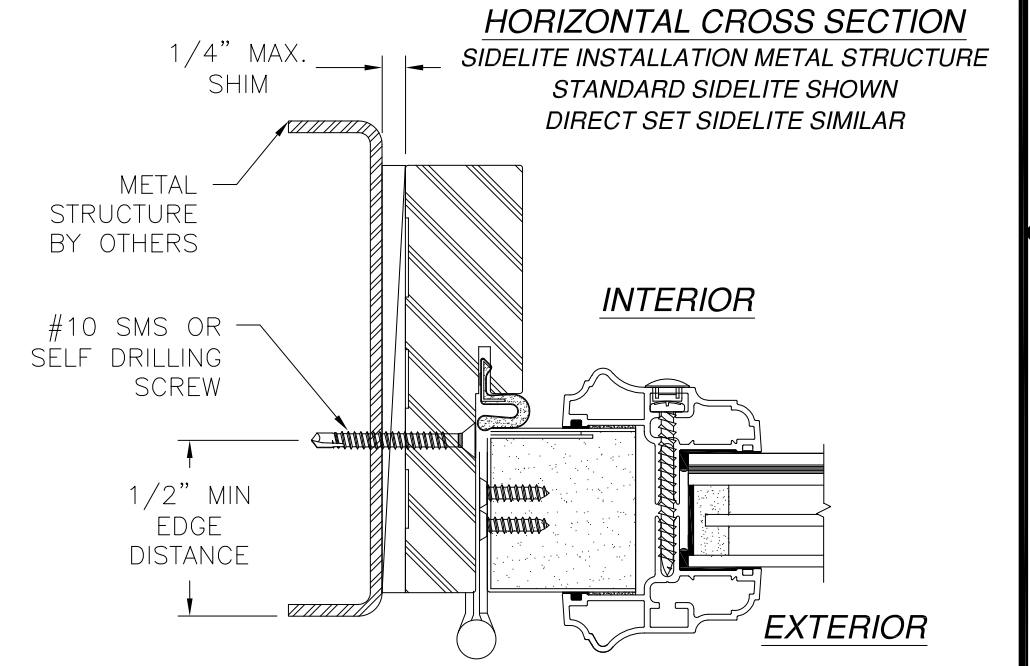
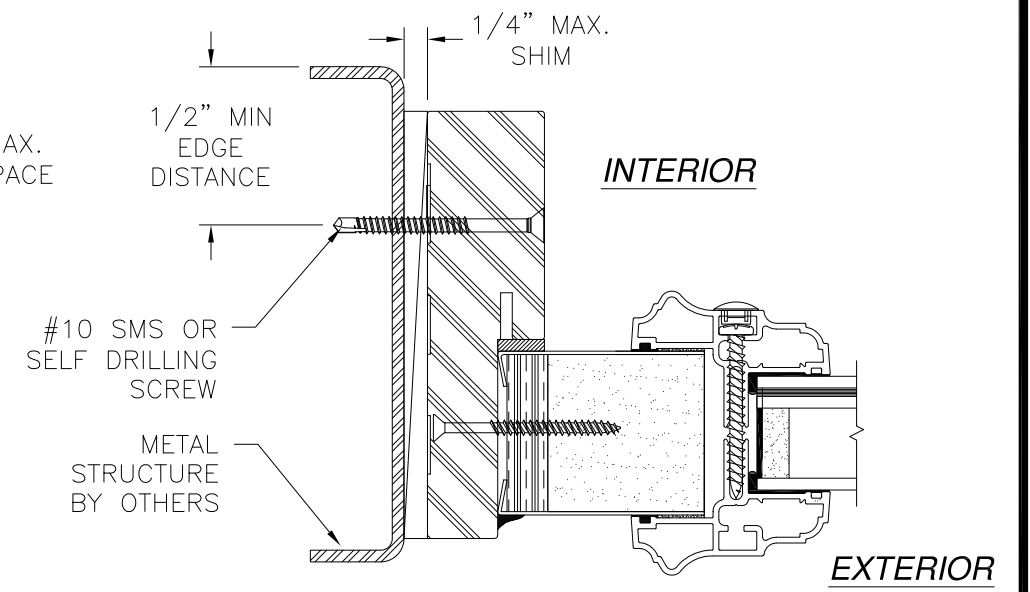
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**VERTICAL CROSS SECTION**  
 DOOR AND TRANSOM INSTALLATION METAL STRUCTURE  
 TRANSOM HEAD SHOWN  
 TRANSOM JAMB SIMILAR



**VERTICAL CROSS SECTION**  
 SIDELITE AND TRANSOM INSTALLATION METAL STRUCTURE  
 STANDARD SIDELITE SHOWN  
 DIRECT SET SIDELITE SIMILAR  
 TRANSOM HEAD SHOWN  
 TRANSOM JAMB SIMILAR



**HORIZONTAL CROSS SECTION**  
 DOOR INSTALLATION METAL STRUCTURE SIGNED: 09/07/2021

- NOTES:**
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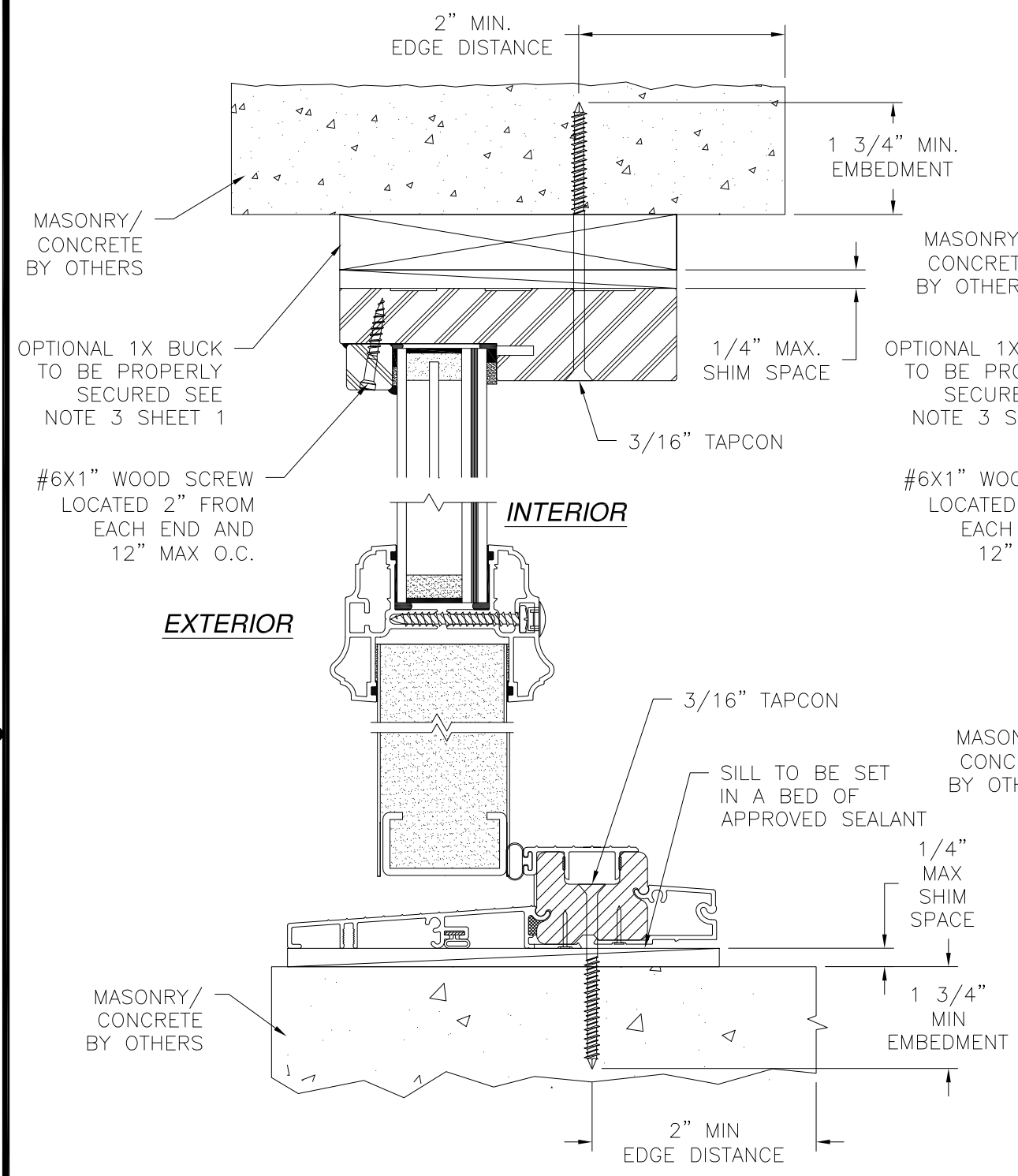
STEEL OUTSWING GLAZED DOUBLE DOOR  
 W/SIDELITES & TRANSOM - IMPACT  
 INSTALLATION DETAILS

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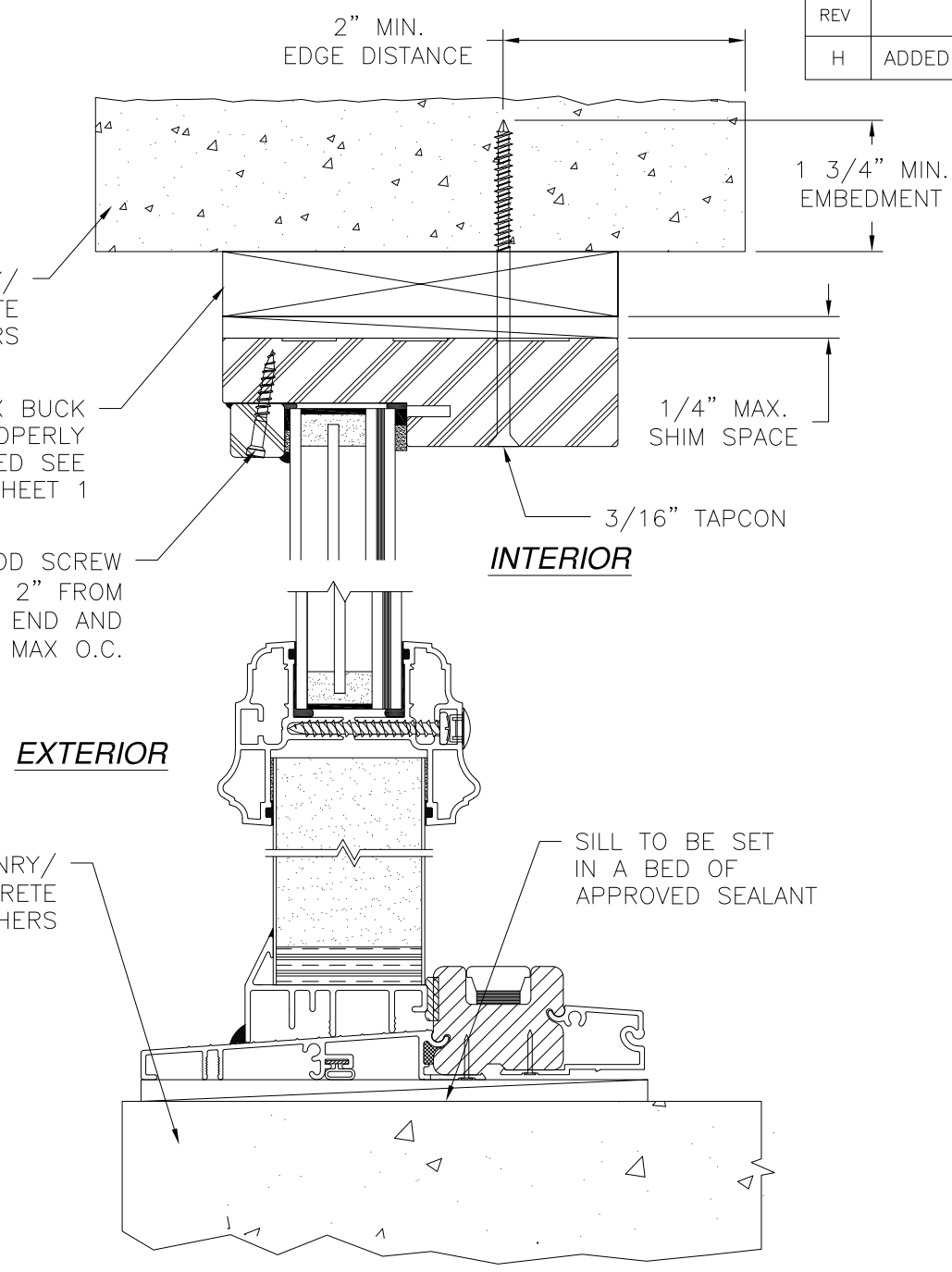
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**VERTICAL CROSS SECTION**  
 DOOR AND TRANSOM INSTALLATION MASONRY/CONCRETE  
 TRANSOM HEAD SHOWN  
 TRANSOM JAMB SIMILAR

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**VERTICAL CROSS SECTION**  
 SIDELITE AND TRANSOM INSTALLATION MASONRY/CONCRETE  
 STANDARD SIDELITE SHOWN  
 DIRECT SET SIDELITE SIMILAR  
 TRANSOM HEAD SHOWN  
 TRANSOM JAMB SIMILAR

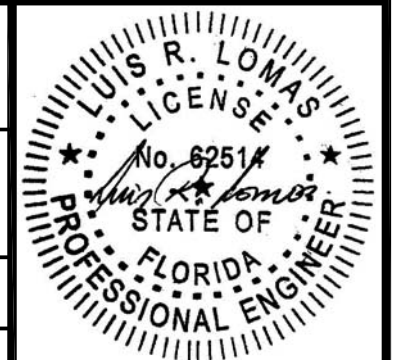
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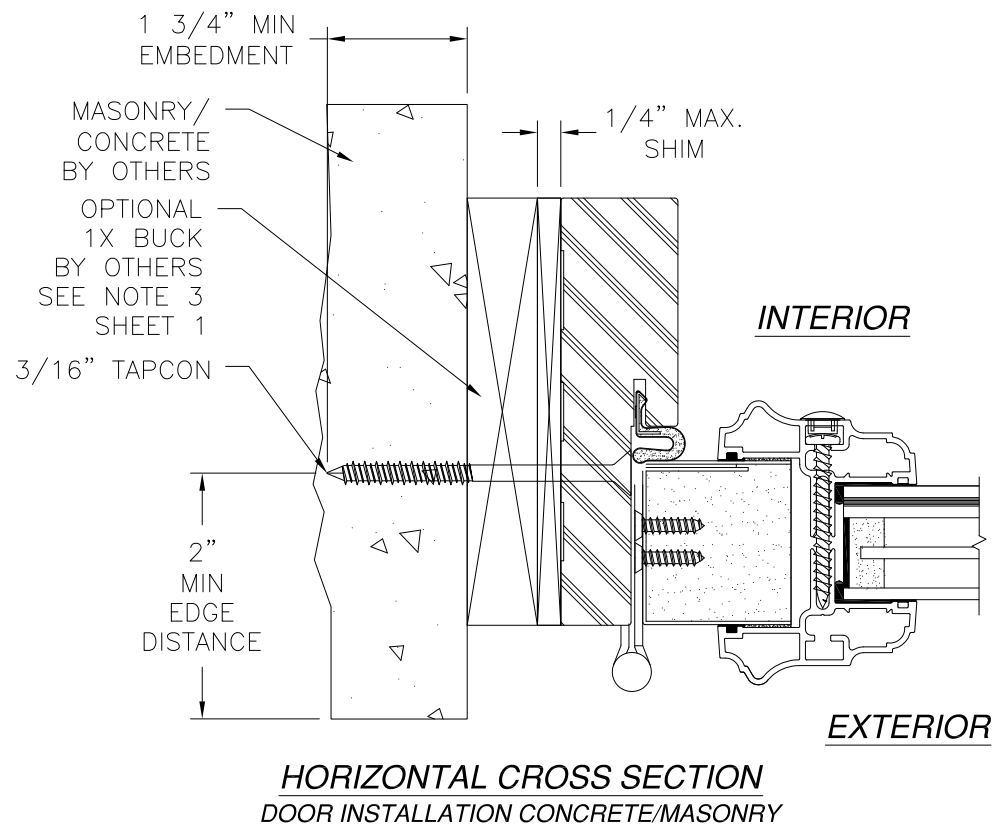
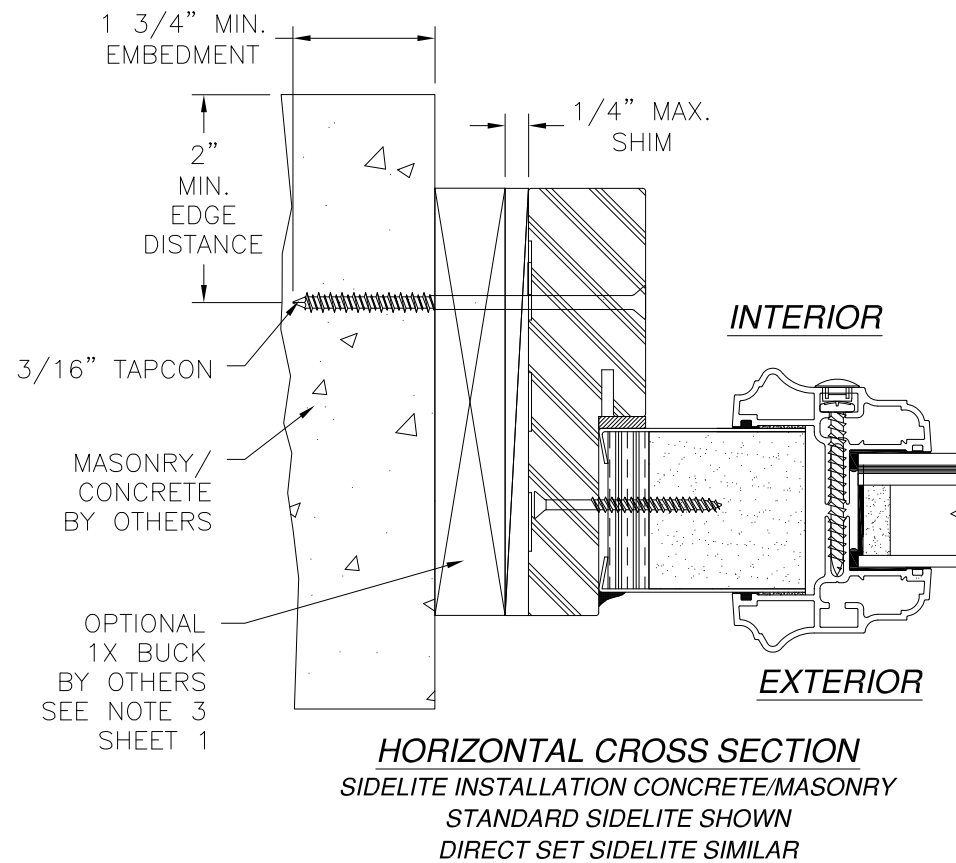
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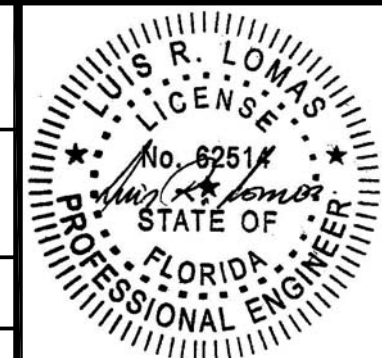


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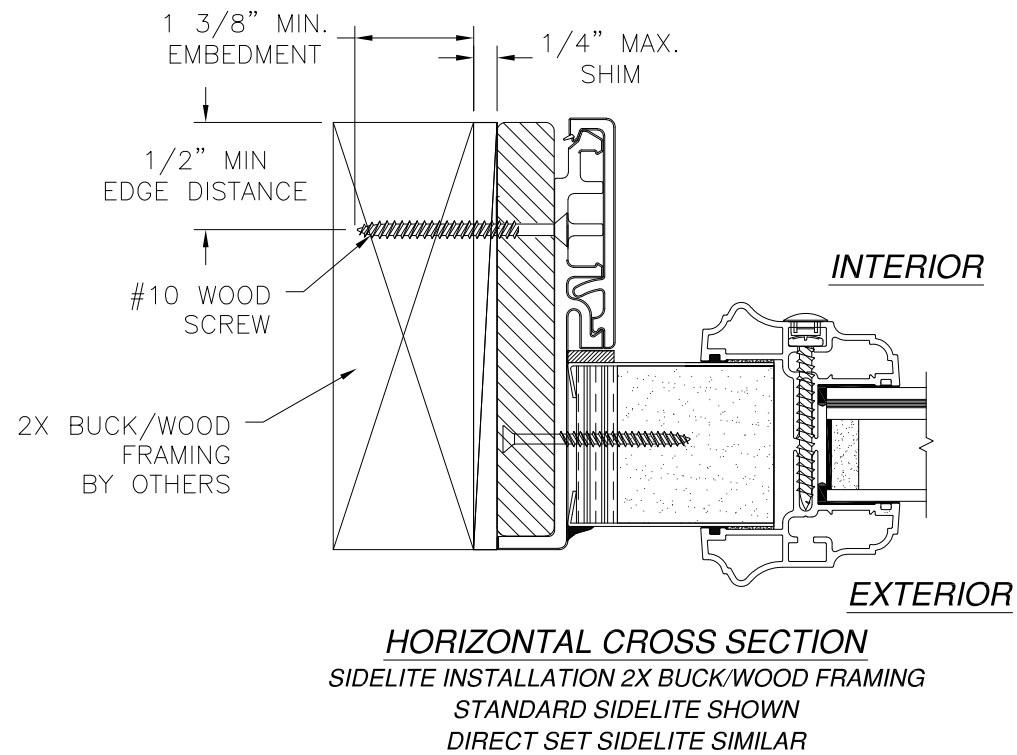
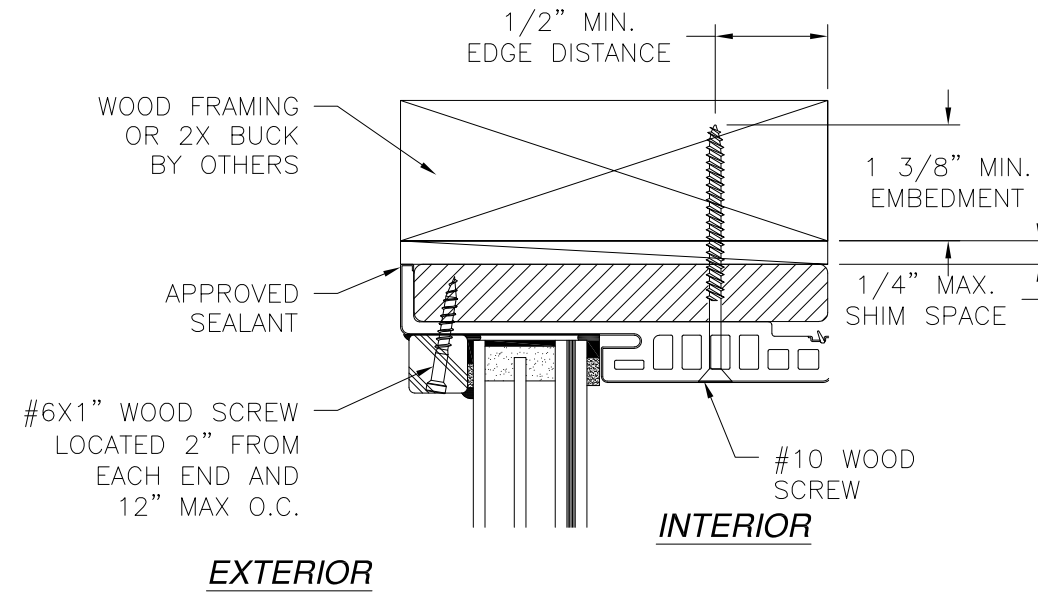
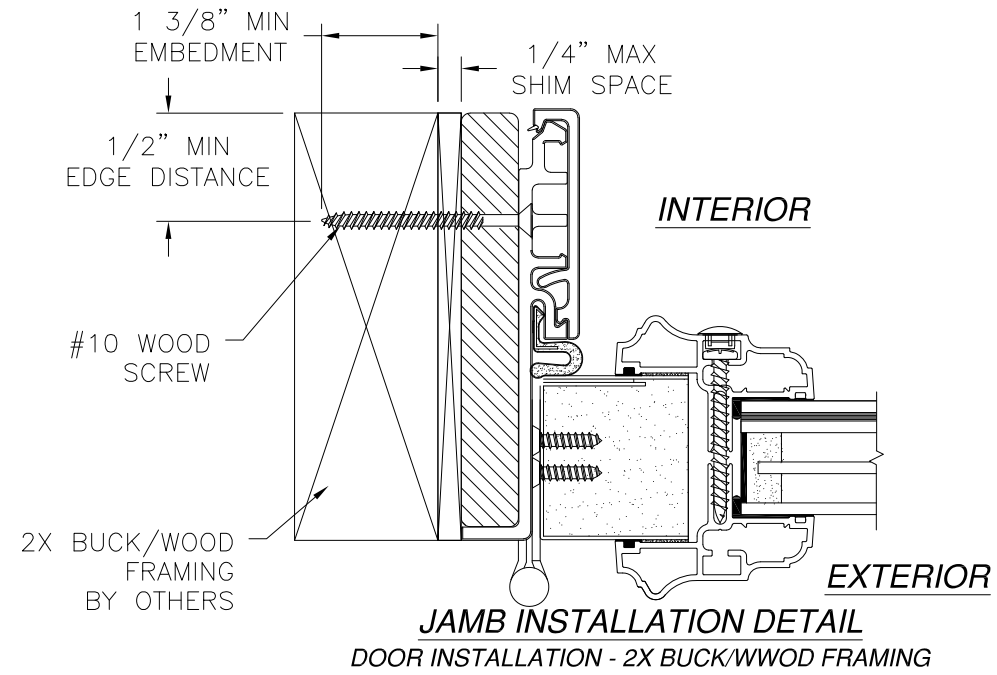
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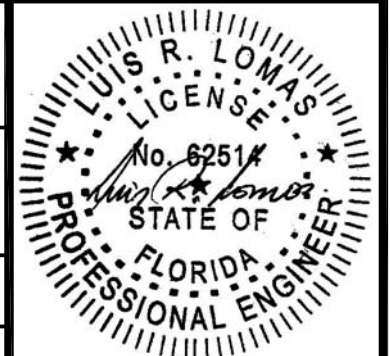
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STEEL OUTSWING GLAZED DOUBLE DOOR  
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INSTALLATION DETAILS W/FUSION FRAME

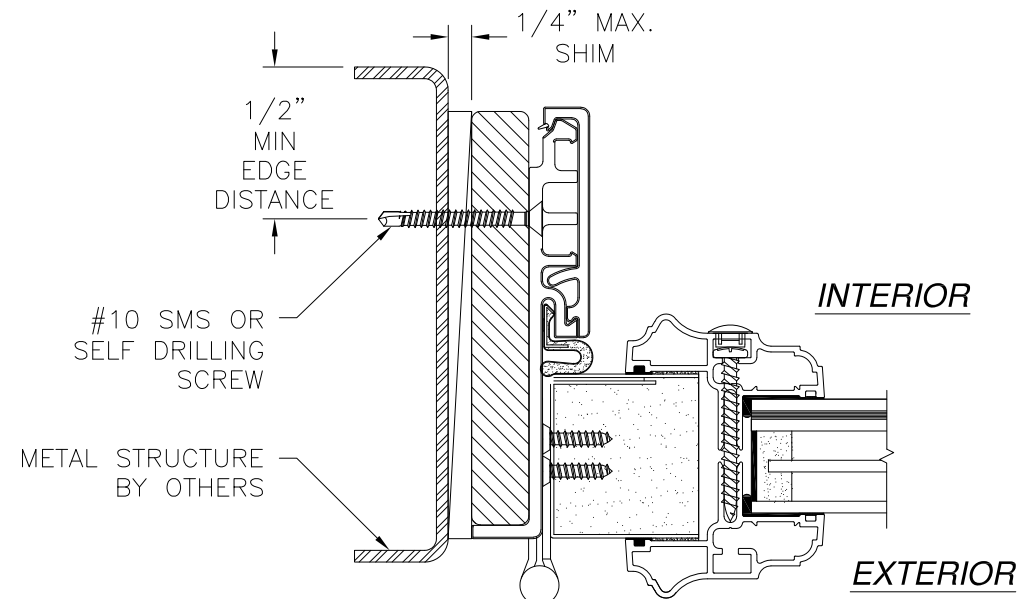
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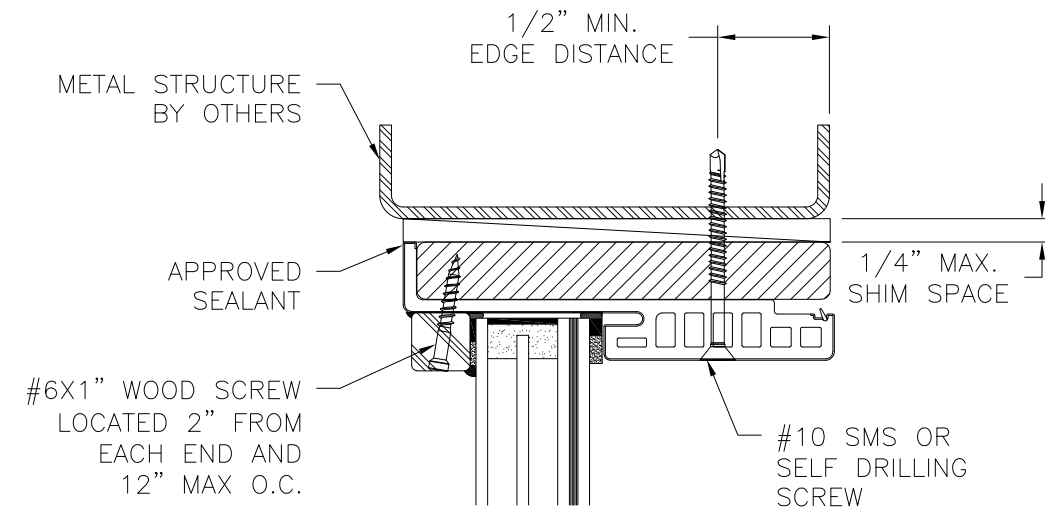


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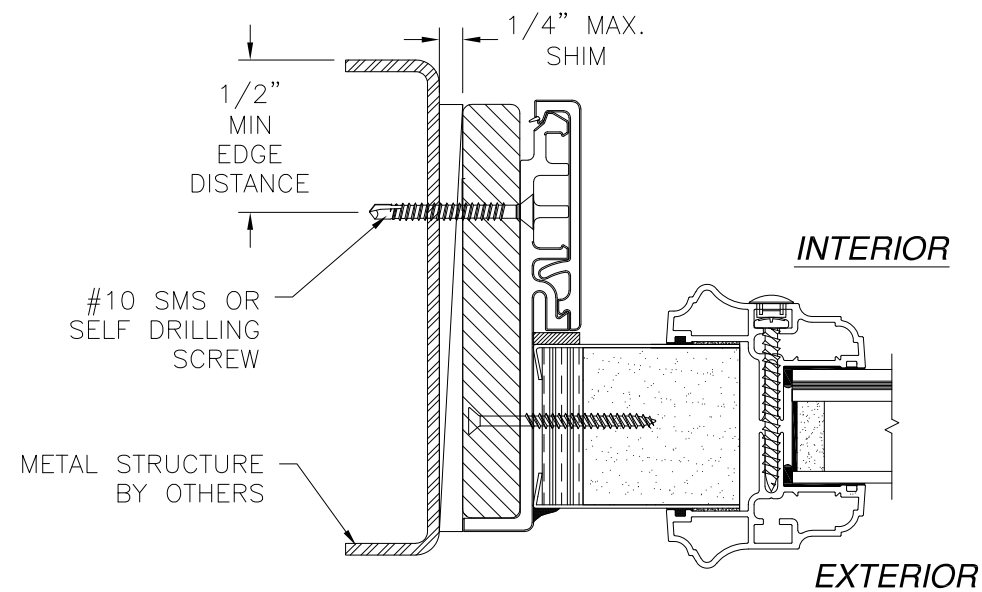
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**JAMB INSTALLATION DETAIL**  
DOOR INSTALLATION - METAL STRUCTURE



**VERTICAL CROSS SECTION**  
TRANSOM INSTALLATION - METAL STRUCTURE  
TRANSOM HEAD SHOWN  
TRANSOM JAMB SIMILAR



**HORIZONTAL CROSS SECTION**  
SIDELITE INSTALLATION METAL STRUCTURE  
STANDARD SIDELITE SHOWN  
DIRECT SET SIDELITE SIMILAR

- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
  2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

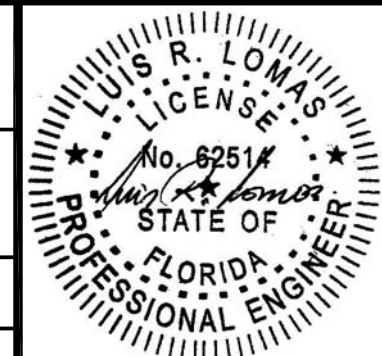
SIGNED: 09/07/2021

PROVIA, LLC.  
2150 STATE ROUTE 39 WEST  
SUGARCREEK, OH 44681

STEEL OUTSWING GLAZED DOUBLE DOOR  
W/SIDELITES & TRANSOM - IMPACT  
INSTALLATION DETAILS W/FUSION FRAME

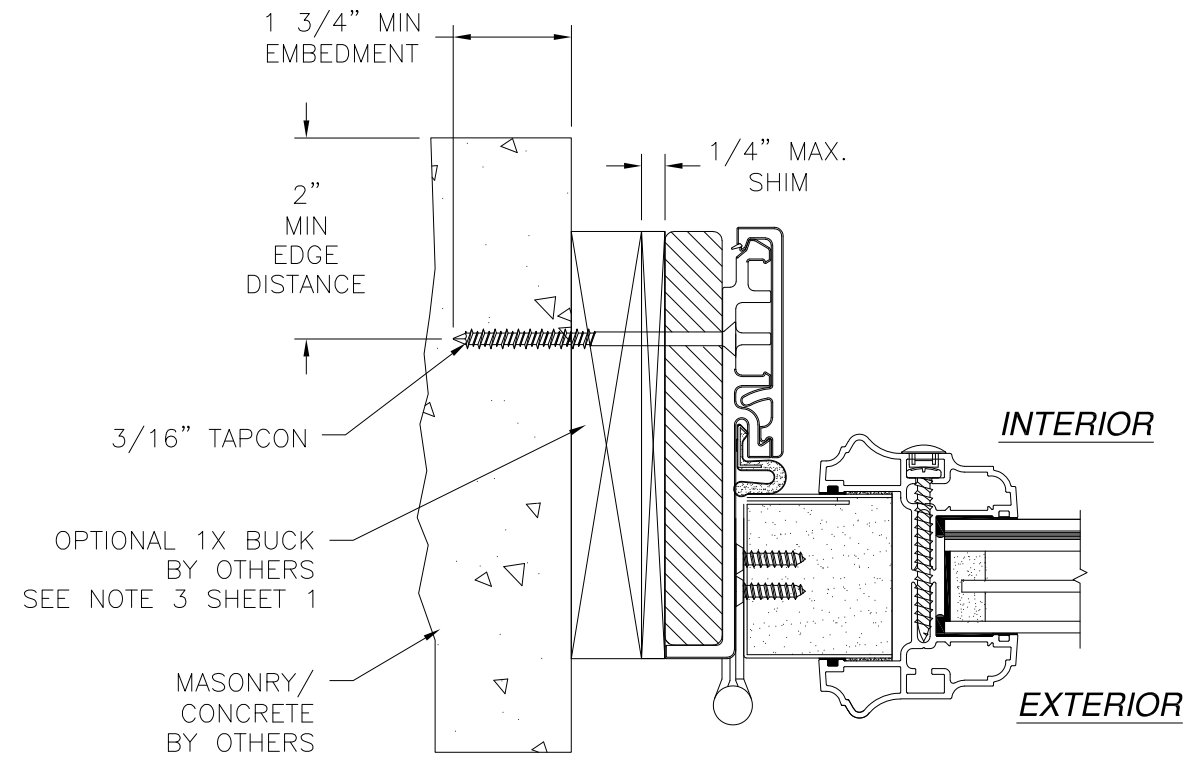
DRAWN: J.L.	DWG NO. 08-02024	REV H
SCALE NTS	DATE 04/23/13	SHEET 11 OF 17

L. ROBERTO LOMAS P.E.  
1432 WOODFORD RD LEWISVILLE, NC 27023  
434-688-0609 rllomas@rlomaspe.com

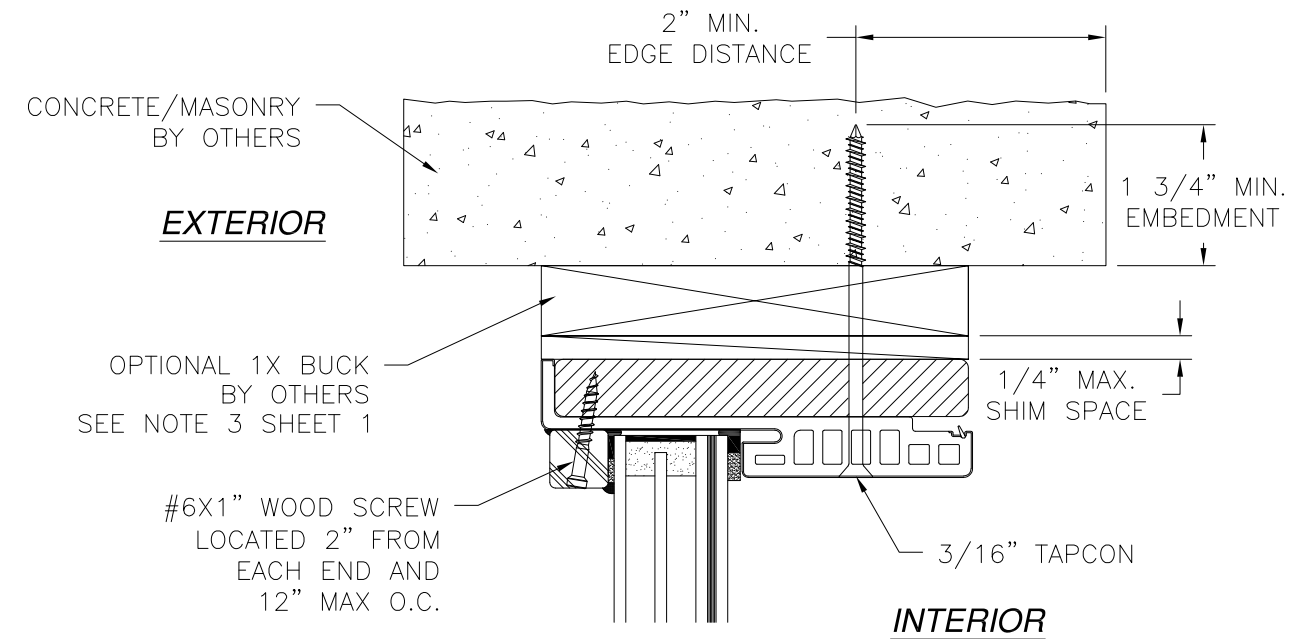


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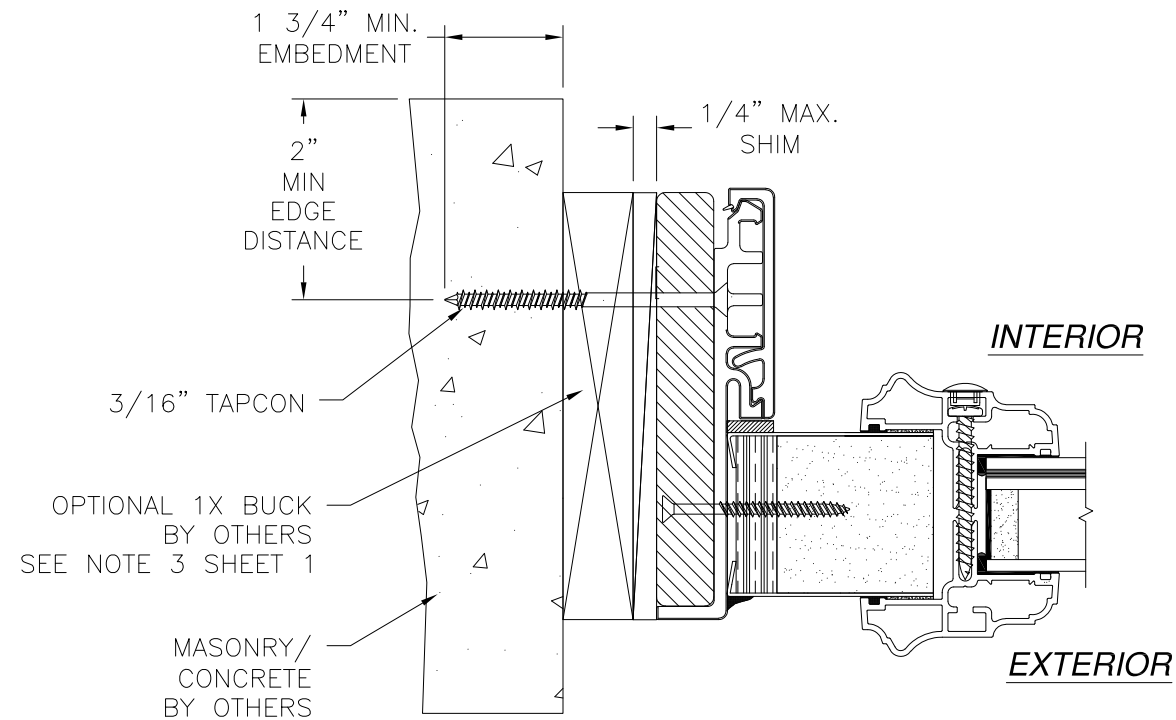
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	ADDED MULTILITE PANELS & TRIMS	08/17/2021	R.L.



**JAMB INSTALLATION DETAIL**  
DOOR INSTALLATION - CONCRETE/MASONRY



**VERTICAL CROSS SECTION**  
TRANSOM INSTALLATION - CONCRETE/MASONRY  
TRANSOM HEAD SHOWN  
TRANSOM JAMB SIMILAR



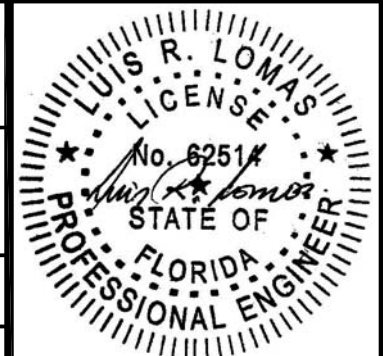
**HORIZONTAL CROSS SECTION**  
SIDELITE INSTALLATION CONCRETE/MASONRY  
STANDARD SIDELITE SHOWN  
DIRECT SET SIDELITE SIMILAR

**NOTES:**

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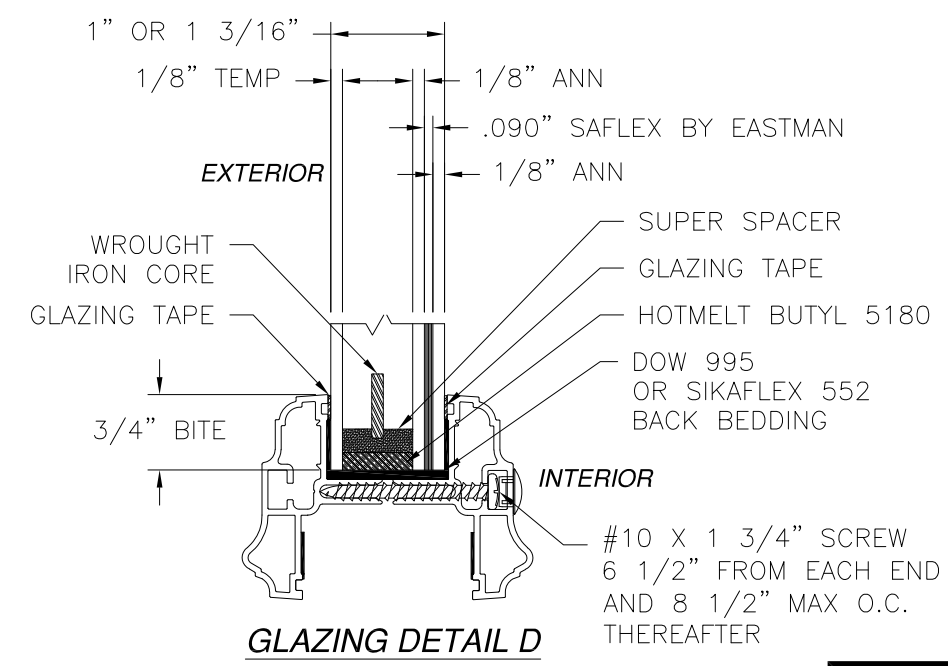
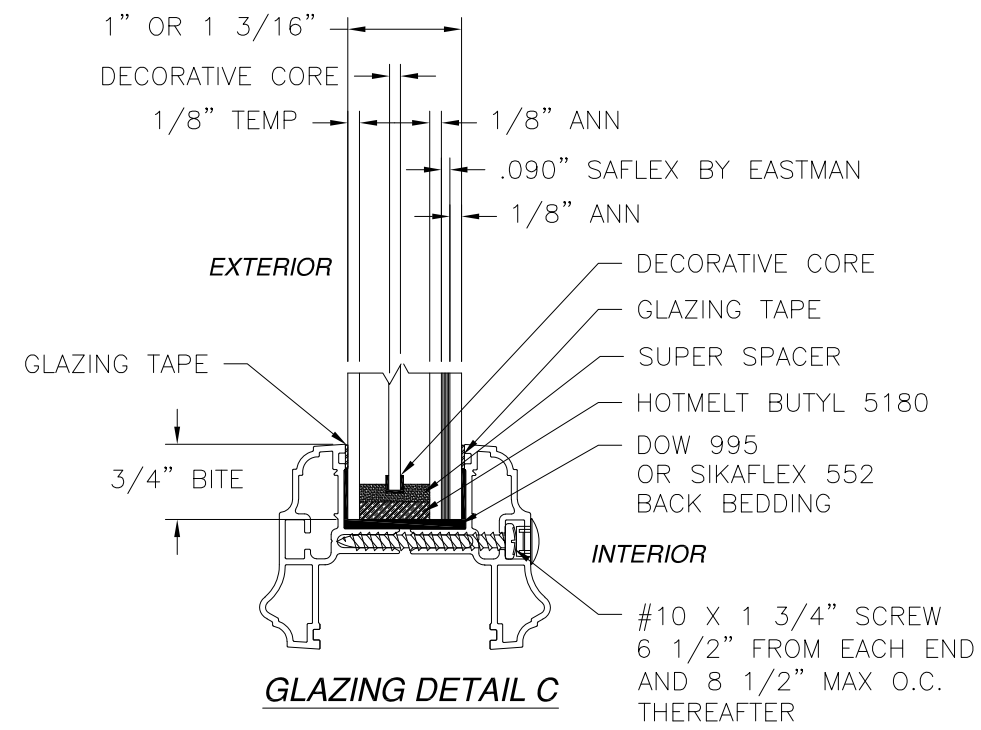
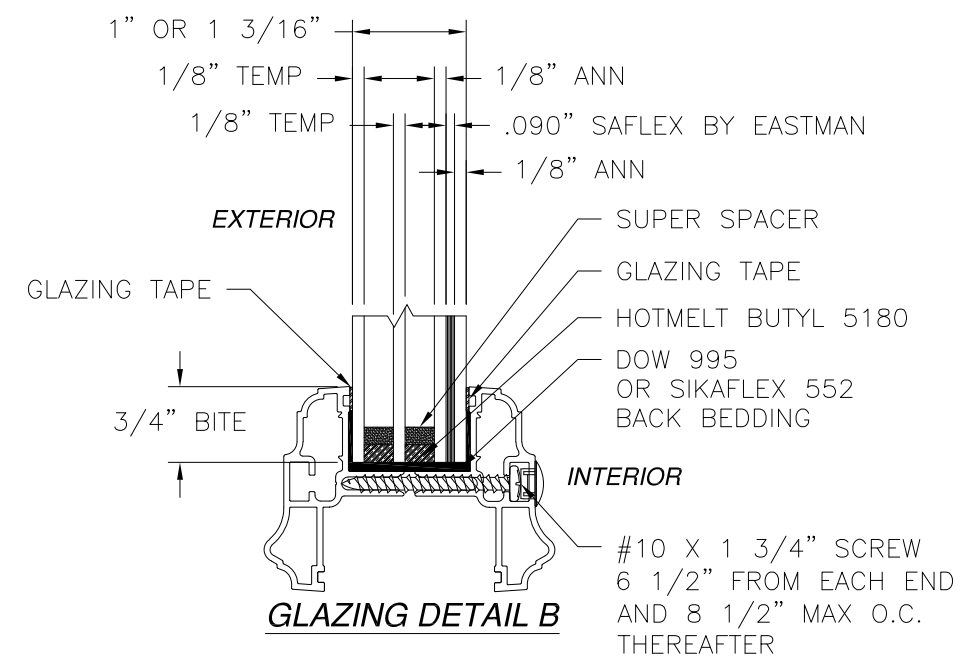
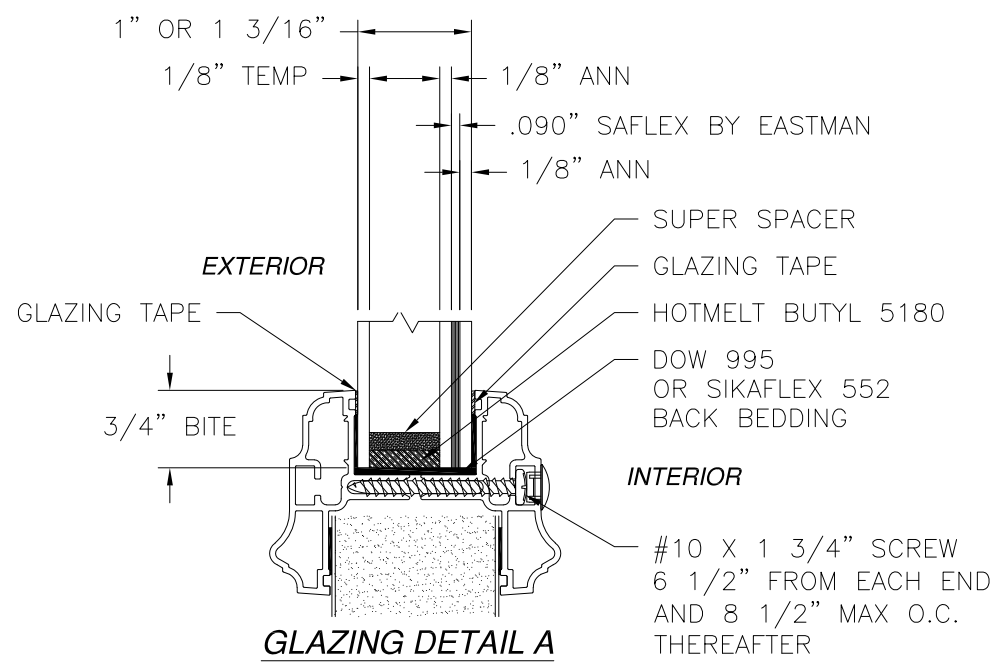
SIGNED: 09/07/2021

<b>PROVIA, LLC.</b> 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL OUTSWING GLAZED DOUBLE DOOR W/SIDELITES & TRANSOM - IMPACT INSTALLATION DETAILS W/FUSION FRAME		
DRAWN: J.L.	DWG NO. 08-02024	REV H
SCALE NTS	DATE 04/23/13	SHEET 12 OF 17
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		



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REVISIONS			
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H	ADDED MULTILITE PANELS & TRIMS	08/17/2021	R.L.



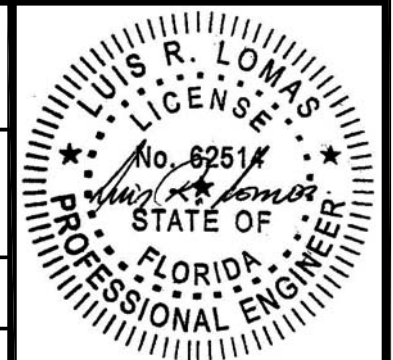
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2150 STATE ROUTE 39 WEST  
SUGARCREEK, OH 44681

STEEL OUTSWING GLAZED DOUBLE DOOR  
W/SIDELITES & TRANSOM - IMPACT  
GLAZING DETAILS

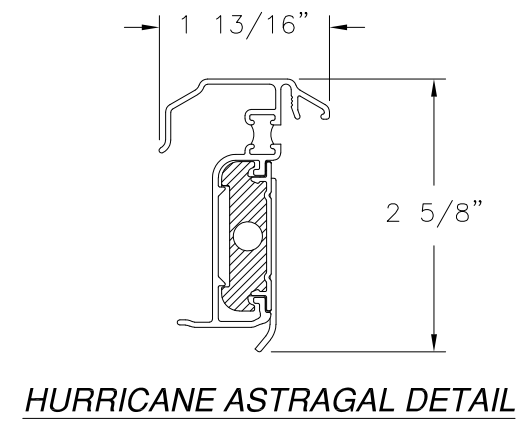
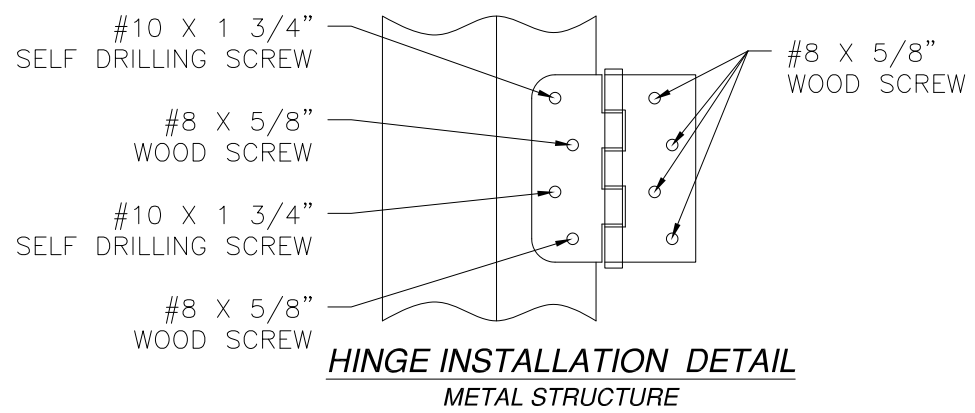
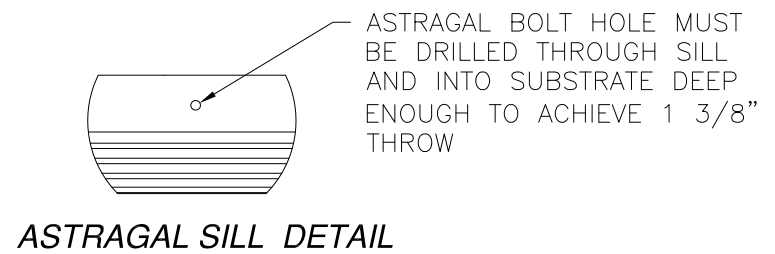
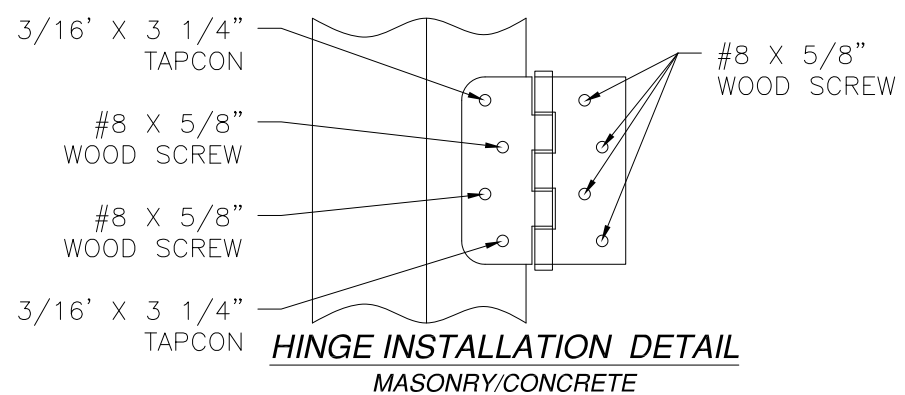
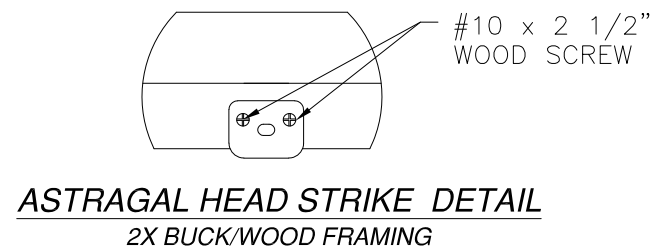
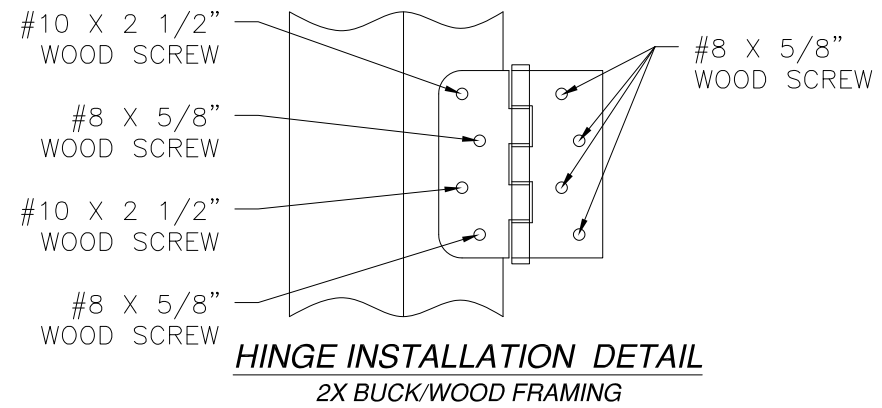
DRAWN: J.L.	DWG NO. 08-02024	REV H
SCALE NTS	DATE 04/23/13	SHEET 13 OF 17

L. ROBERTO LOMAS P.E.  
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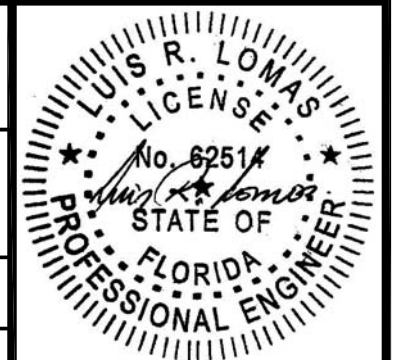
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PROVIA, LLC.  
2150 STATE ROUTE 39 WEST  
SUGARCREEK, OH 44681

STEEL OUTSWING GLAZED DOUBLE DOOR  
W/SIDELITES & TRANSOM - IMPACT  
COMPONENTS DETAILS

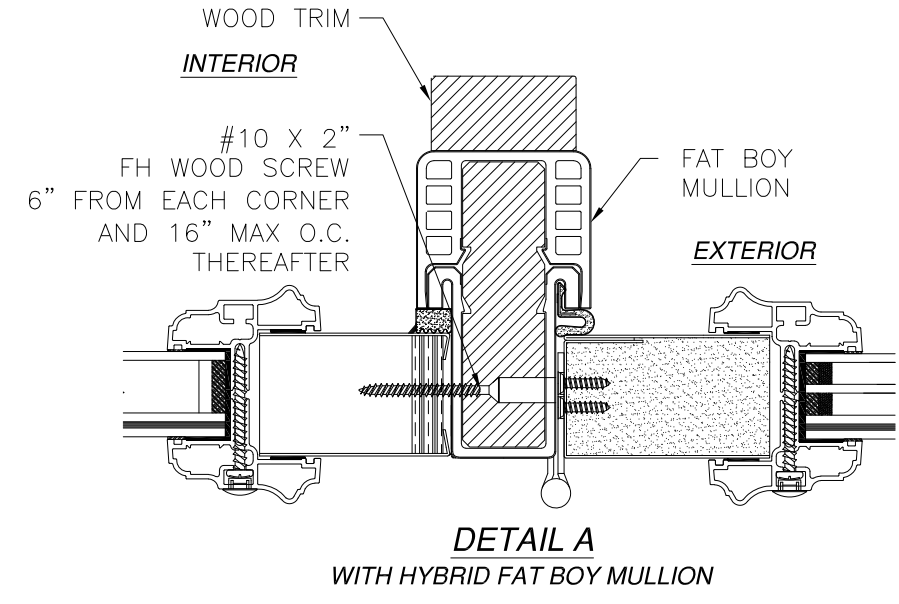
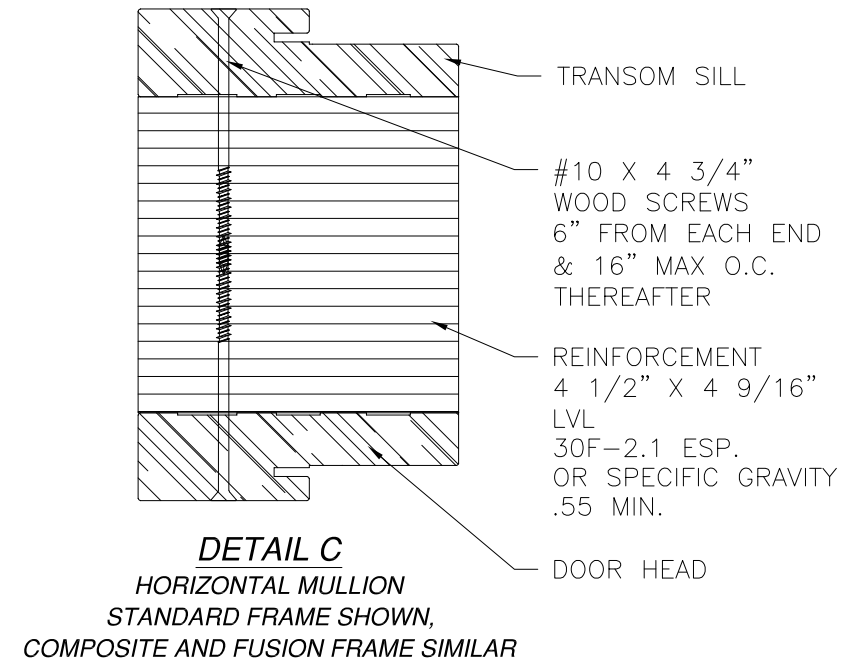
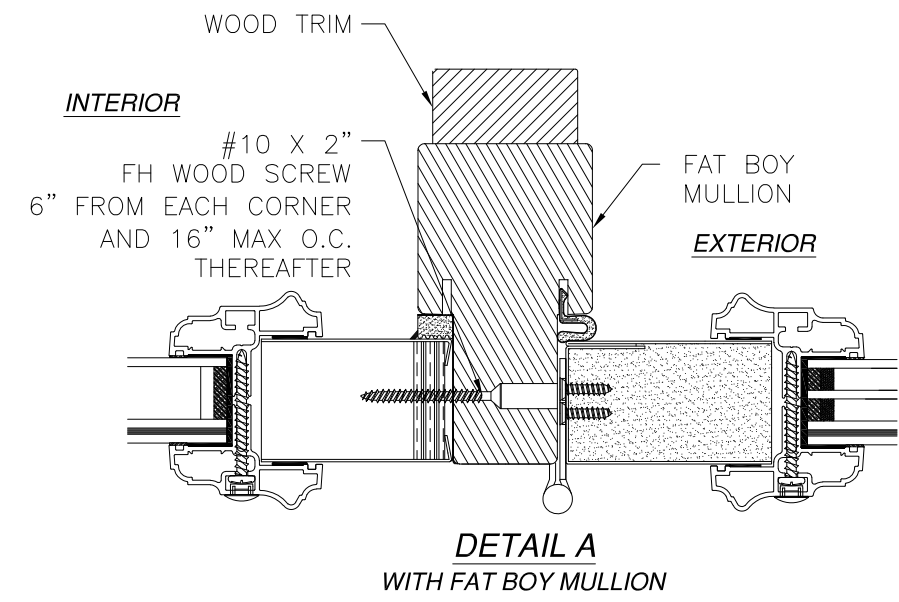
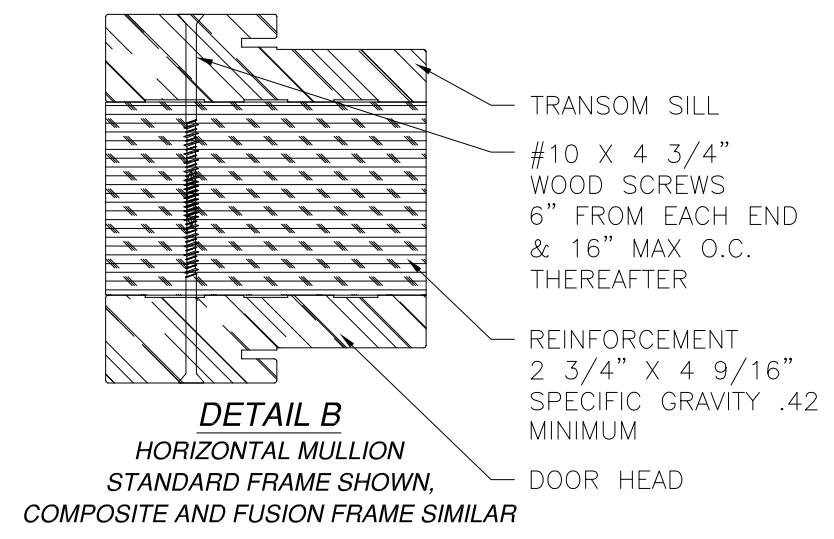
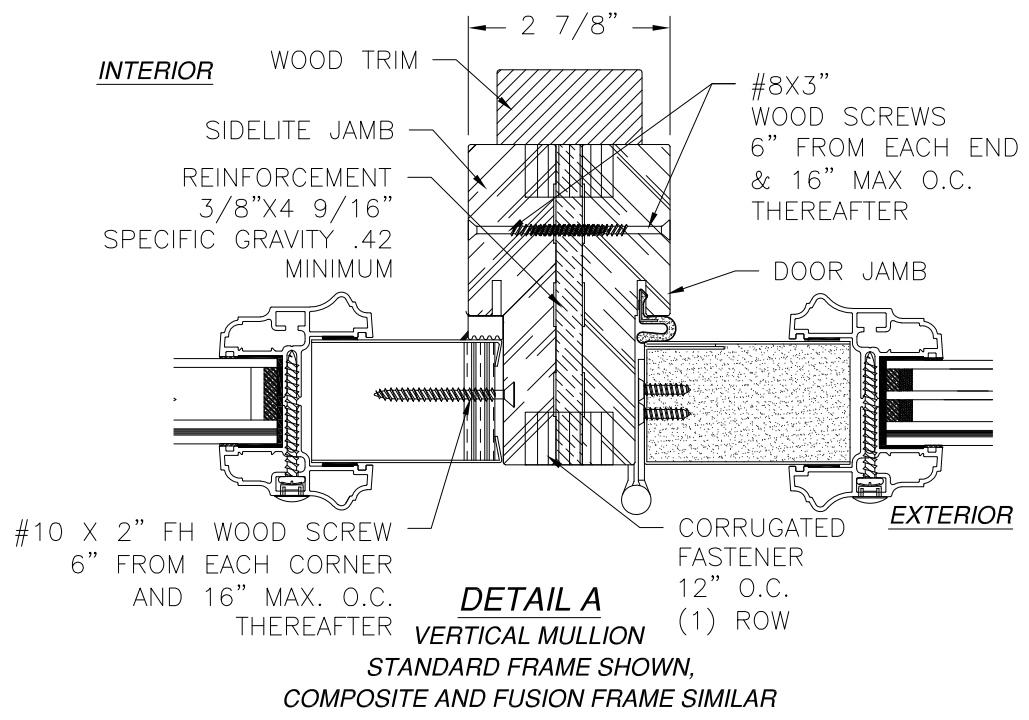
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SCALE NTS	DATE 04/23/13	SHEET 14 OF 17

L. ROBERTO LOMAS P.E.  
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434-688-0609 rllomas@lrlomaspe.com



Luis R. Lomas P.E.  
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	ADDED MULTILITE PANELS & TRIMS	08/17/2021	R.L.



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PROVIA, LLC.  
2150 STATE ROUTE 39 WEST  
SUGARCREEK, OH 44681

STEEL OUTSWING GLAZED DOUBLE DOOR  
W/SIDELITES & TRANSOM - IMPACT  
MULLION DETAILS

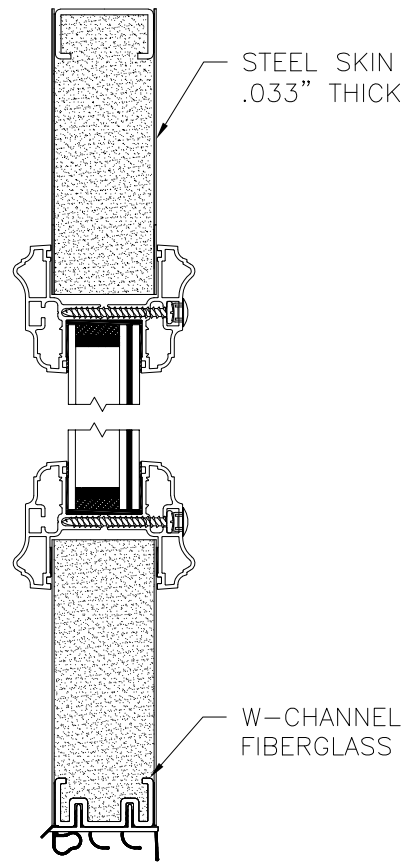
DRAWN: J.L.	DWG NO. 08-02024	REV H
SCALE NTS	DATE 04/23/13	SHEET 15 OF 17

L. ROBERTO LOMAS P.E.  
1432 WOODFORD RD LEWISVILLE, NC 27023  
434-688-0609 rllomas@rlomaspe.com

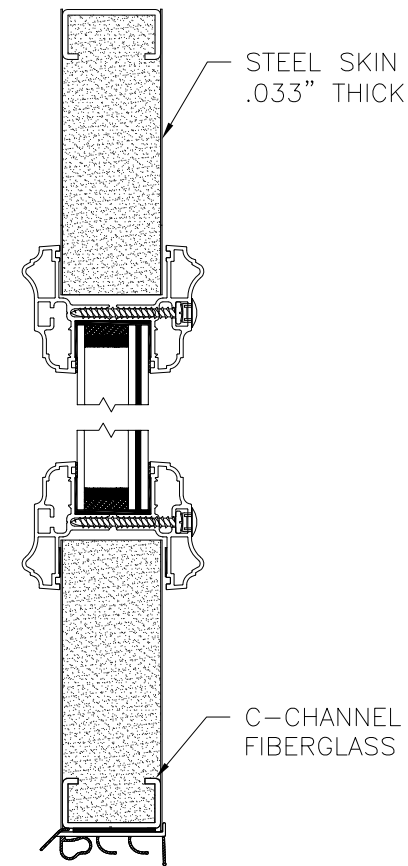
Luis R. Lomas P.E.  
FL No.: 62514

# APPROVED SLABS AND TRIMS

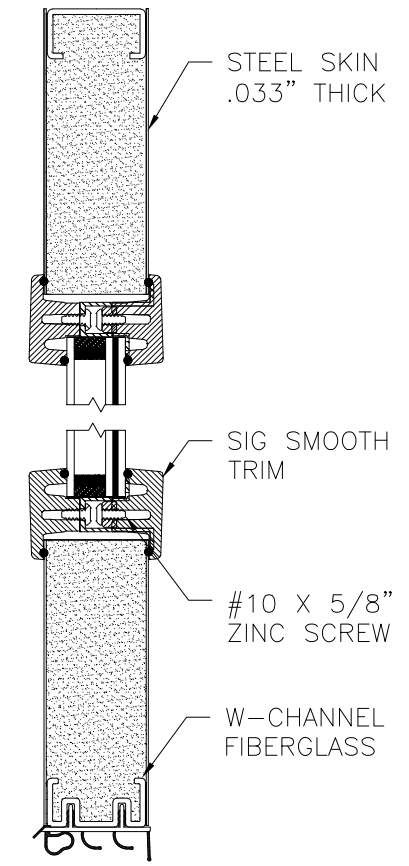
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	ADDED MULTILITE PANELS & TRIMS	08/17/2021	R.L.



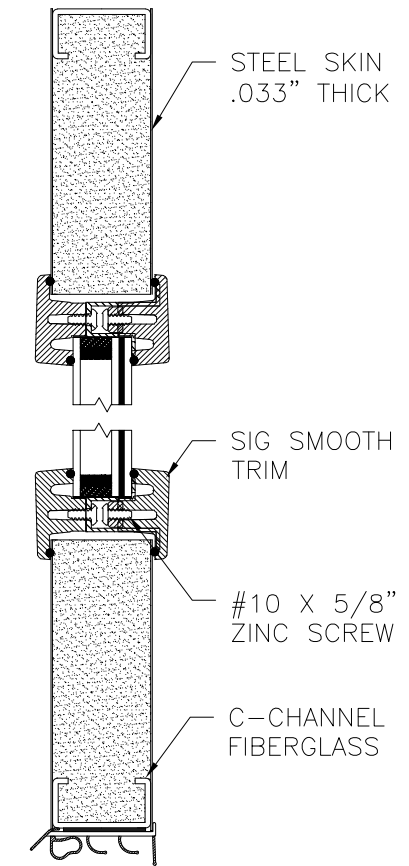
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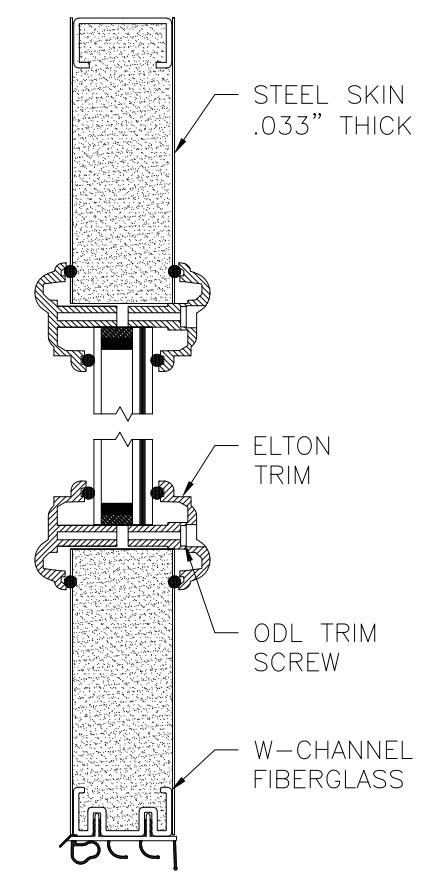
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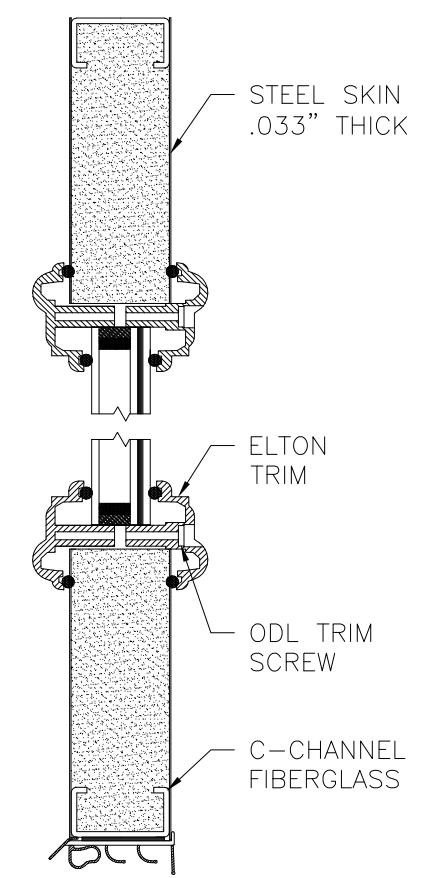
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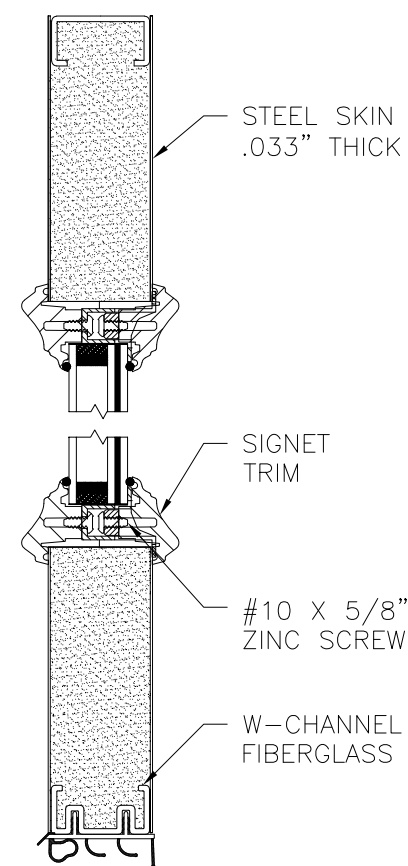
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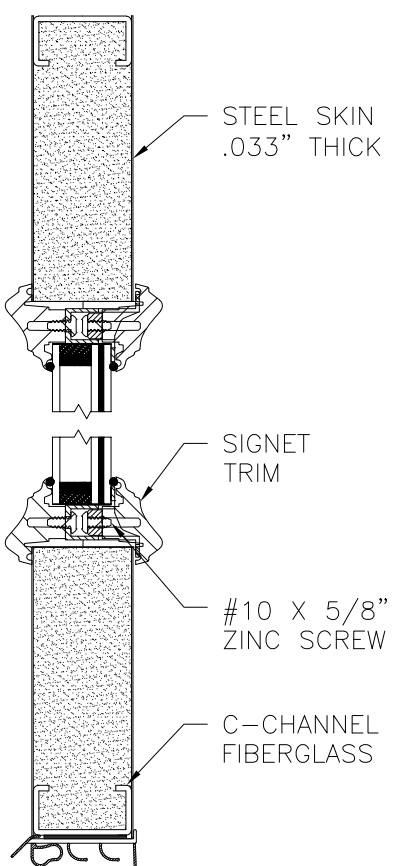
PANEL OPTION 9



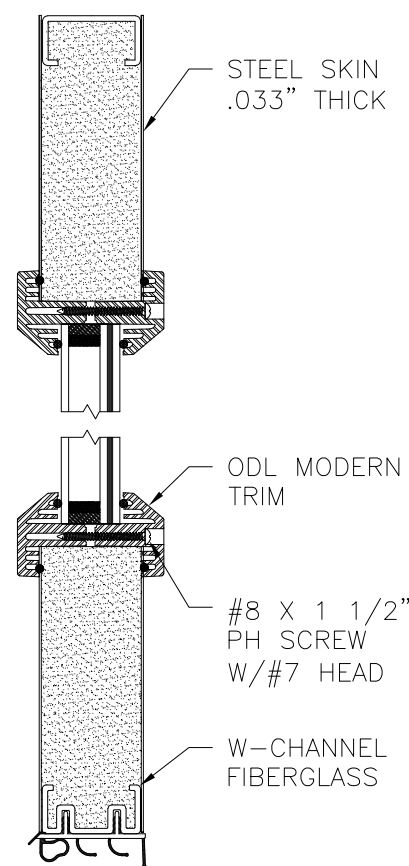
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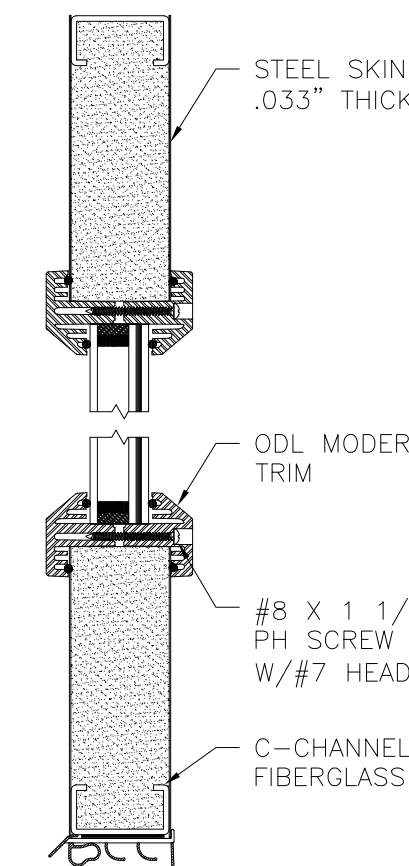
PANEL OPTION 5



PANEL OPTION 6



PANEL OPTION 7



PANEL OPTION 8

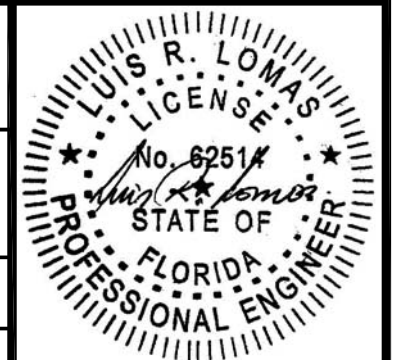
PROVIA, LLC.  
2150 STATE ROUTE 39 WEST  
SUGARCREEK, OH 44681

STEEL OUTSWING GLAZED DOUBLE DOOR  
W/SIDELITES & TRANSOM - IMPACT  
APPROVED SLABS

DRAWN: J.L.	DWG NO. 08-02024	REV H
SCALE NTS	DATE 04/23/13	SHEET 16 OF 17

L. ROBERTO LOMAS P.E.  
1432 WOODFORD RD LEWISVILLE, NC 27023  
434-688-0609 rllomas@rlomaspe.com

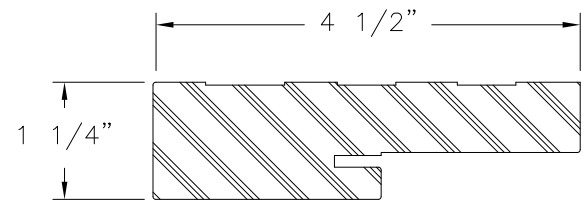
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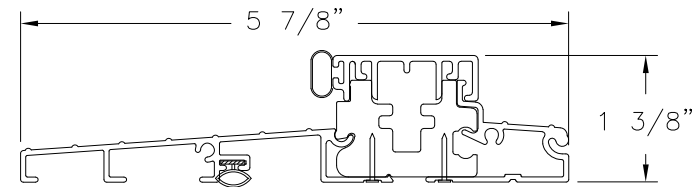
Luis R. Lomas P.E.  
FL No.: 62514



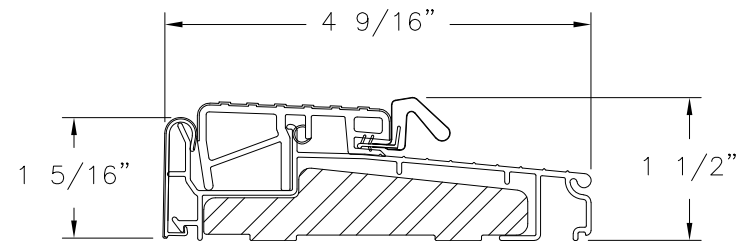
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	ADDED MULTILITE PANELS & TRIMS	08/17/2021	R.L.



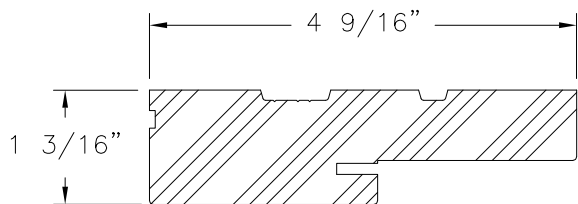
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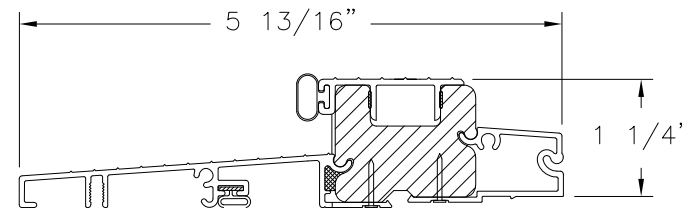
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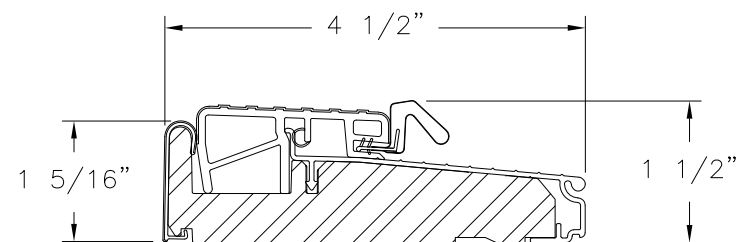
**OUTSWING SILL ZOBL4565**



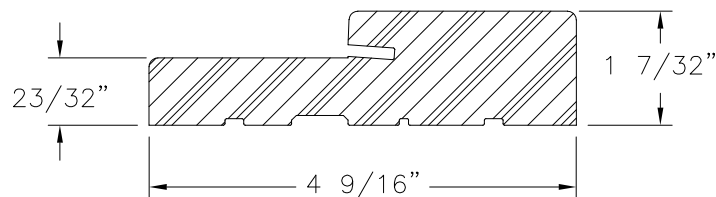
**WOOD FRAME PROFILE**



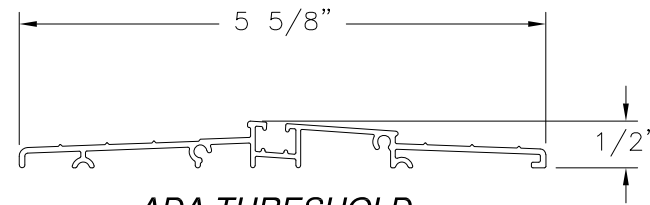
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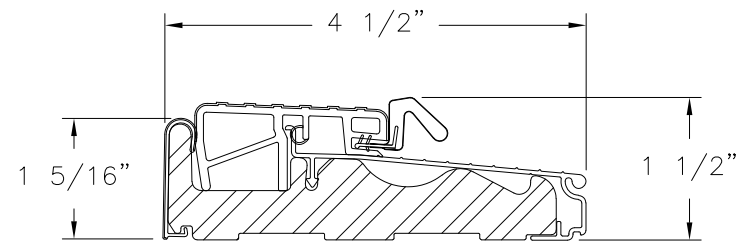
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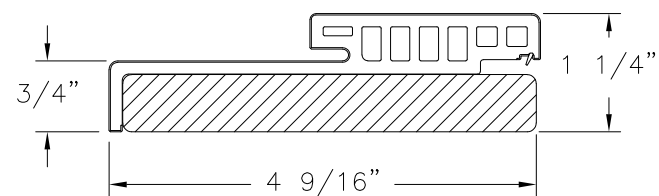
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COMPOSITE**



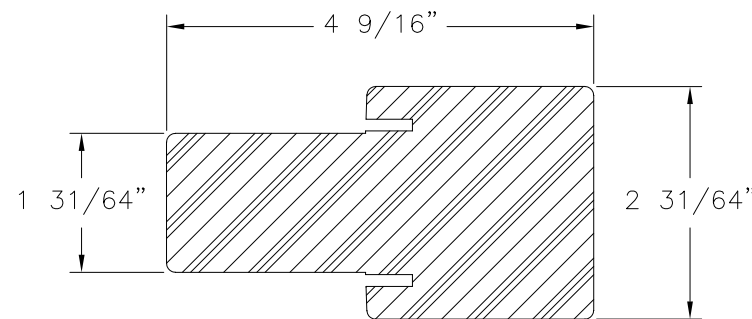
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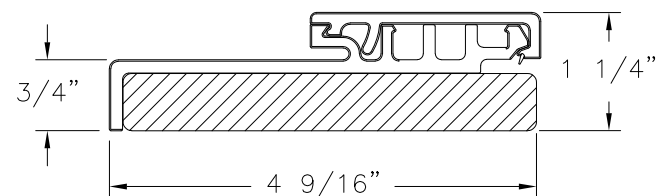
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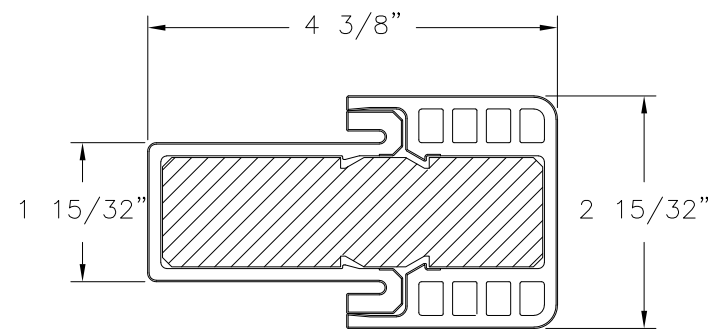
**HYBRID HEAD  
WOOD/COMPOSITE**



**FAT BOY MULLION  
COMPOSITE**



**HYBRID JAMB  
WOOD/COMPOSITE**



**HYBRID FAT BOY MULLION  
COMPOSITE**

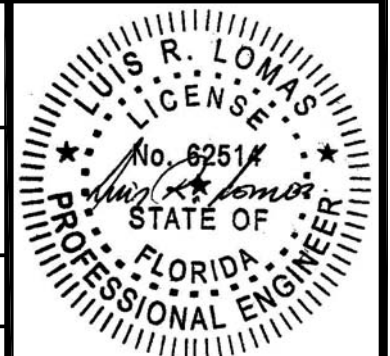
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2150 STATE ROUTE 39 WEST  
SUGARCREEK, OH 44681

STEEL OUTSWING GLAZED DOUBLE DOOR  
W/SIDELITES & TRANSOM - IMPACT  
COMPONENTS

DRAWN: J.L.	DWG NO. 08-0204	REV H
SCALE NTS	DATE 04/23/13	SHEET 17 OF 17

L. ROBERTO LOMAS P.E.  
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