

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
M	ADDED COMPOSITE FRAME	09/08/2021	R.L.

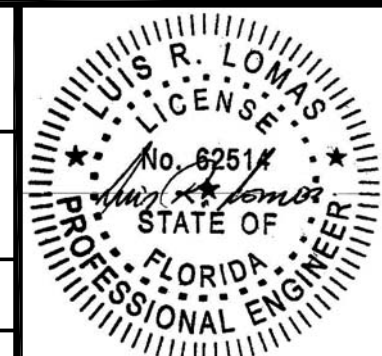
NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. WOOD FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
4. UNITS MUST BE GLAZED PER ASTM E1300 WITH SAFETY GLAZING.
5. 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.
6. 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".
7. FOR ANCHORING INTO 2X BUCK OR WOOD FRAMING USE #10 WOOD SCREW OF SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ANCHORING LAYOUT AND INSTALLATION DETAILS.
8. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16" TAPCON OF SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ANCHORING LAYOUT AND INSTALLATION DETAILS.
9. FOR ANCHORING INTO METAL STRUCTURE USE #10 SMS OR SELF DRILLING SCREW WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10. ALL FASTENERS TO BE CORROSION RESISTANT.
11. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIAL WITH THE FOLLOWING PROPERTIES:
 - A. WOOD – G=0.42 MINIMUM SPECIFIC GRAVITY
 - B. CONCRETE – 3,000PSI MINIMUM COMPRESSIVE STRENGTH.
 - C. MASONRY – GROUT FILLED. STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - D. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI
12. FRAME MATERIAL: WOOD WITH G .46 MINIMUM SPECIFIC GRAVITY OF FRAME SAVER OR FUSION FRAME.
13. DOOR PANEL MATERIAL: 20GA. STEEL WITH 17GA. STEEL OR .0938" FIBERGLASS TOP AND BOTTOM RAIL. SEE SHEET 10 FOR PANEL OPTIONS.
14. MAXIMUM DOOR PANEL AND SIDELITE SASH SIZE = 35 3/4" x 78 15/16".
15. UNITS MAY BE INSTALLED WITH EITHER SCHLAGE F-SERIES DOOR KNOB AND B-SERIES OR F-SERIES DEADBOLT OR EMTEK RESIDENTIAL GRADE DOOR HANDLE ASSEMBLY OR MULTI-POINT LOCK HANDLE ASSEMBLY BY TRILENNIUM, SEE HARDWARE SCHEDULE SHEET 3 FOR APPROVED HARDWARE.

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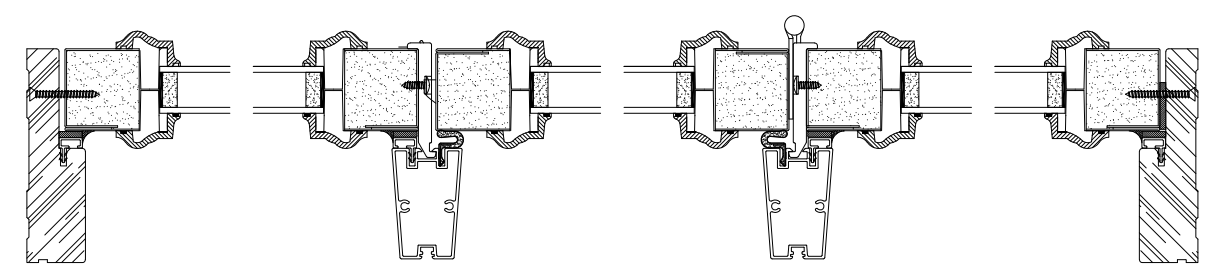
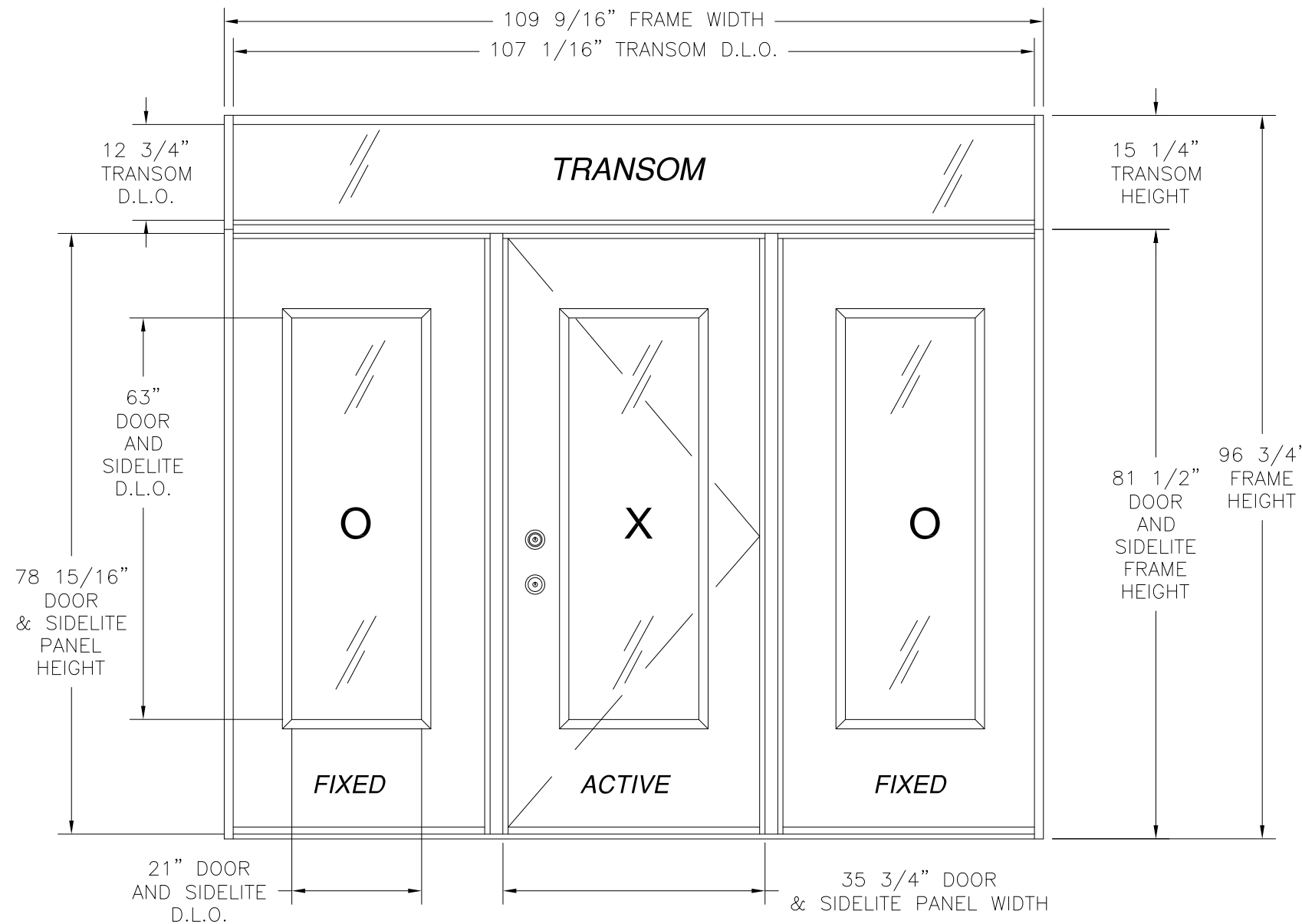
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PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
20GA. STEEL IS PATIO DOOR W/ OR WITHOUT SIDELITES AND TRANSOM NOTES		
DRAWN: TJH	DWG NO. 08-00709	REV M
SCALE NTS	DATE 03/17/09	SHEET 1 OF 12
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		



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HORIZONTAL CROSS SECTION

20GA STEEL IS SINGLE PATIO DOOR W/SIDELITES AND TRANSOM
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
+45PSF / -50PSF	NONE
THIS SYSTEM WAS NOT TESTED FOR WATER INFILTRATION AND IS TO BE INSTALLED ONLY WHERE THE WATER REQUIREMENT IS NOT NEEDED	

FOR ADDITIONAL APPROVED CONFIGURATIONS SEE SHEET 3.
35 3/4" x 78 15/16" PANEL SIZE SHOWN. OTHER SIZES ARE APPROVED
AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 19.56 FT²

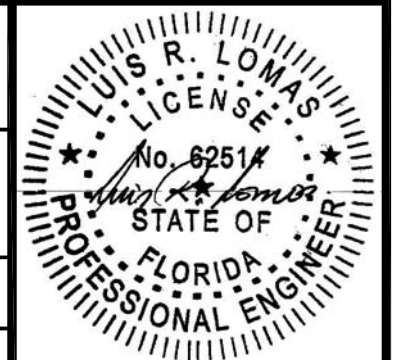
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20GA. STEEL IS PATIO DOOR
W/ OR WITHOUT SIDELITES AND TRANSOM
INSWING ELEVATION

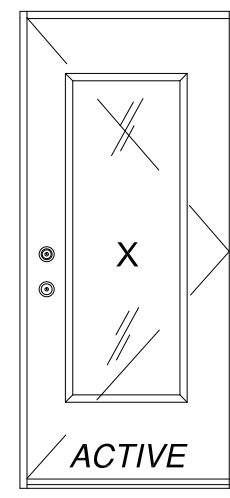
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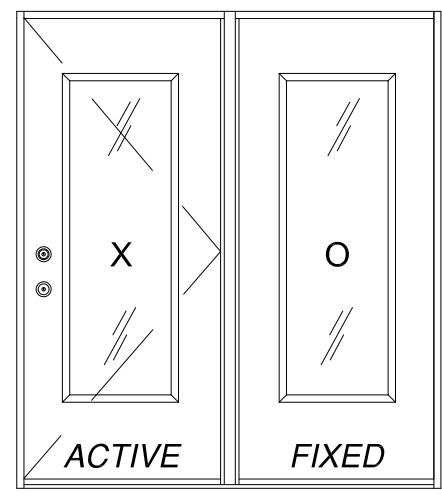


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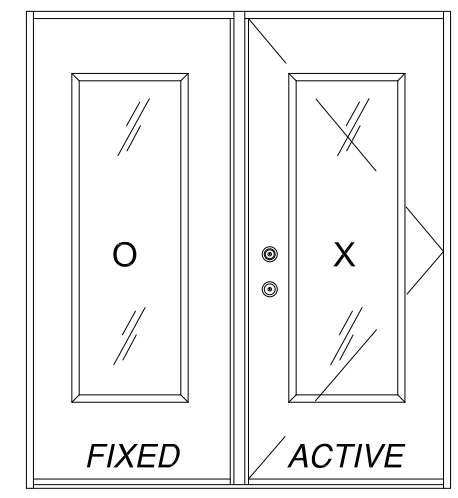
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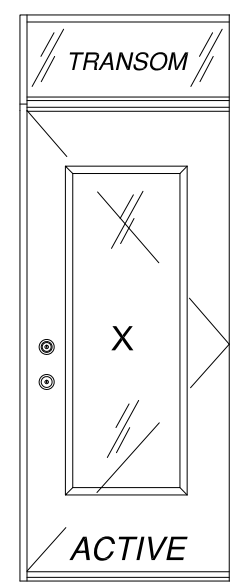
SINGLE
EXTERIOR VIEW



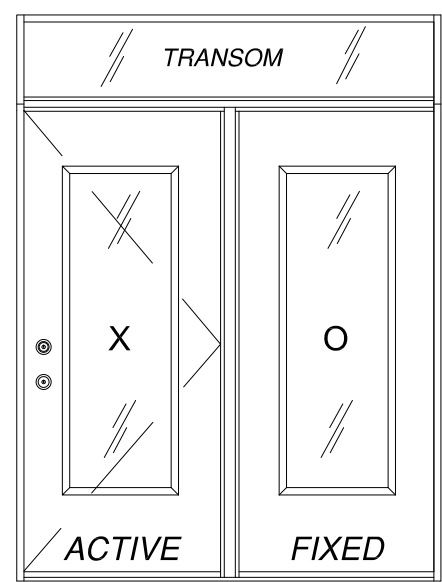
SINGLE W/SIDELITE
EXTERIOR VIEW



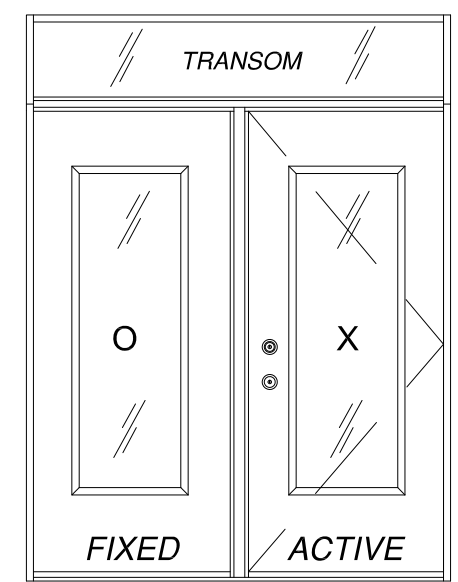
SINGLE W/SIDELITE
EXTERIOR VIEW



SINGLE W/TRANSOM
EXTERIOR VIEW

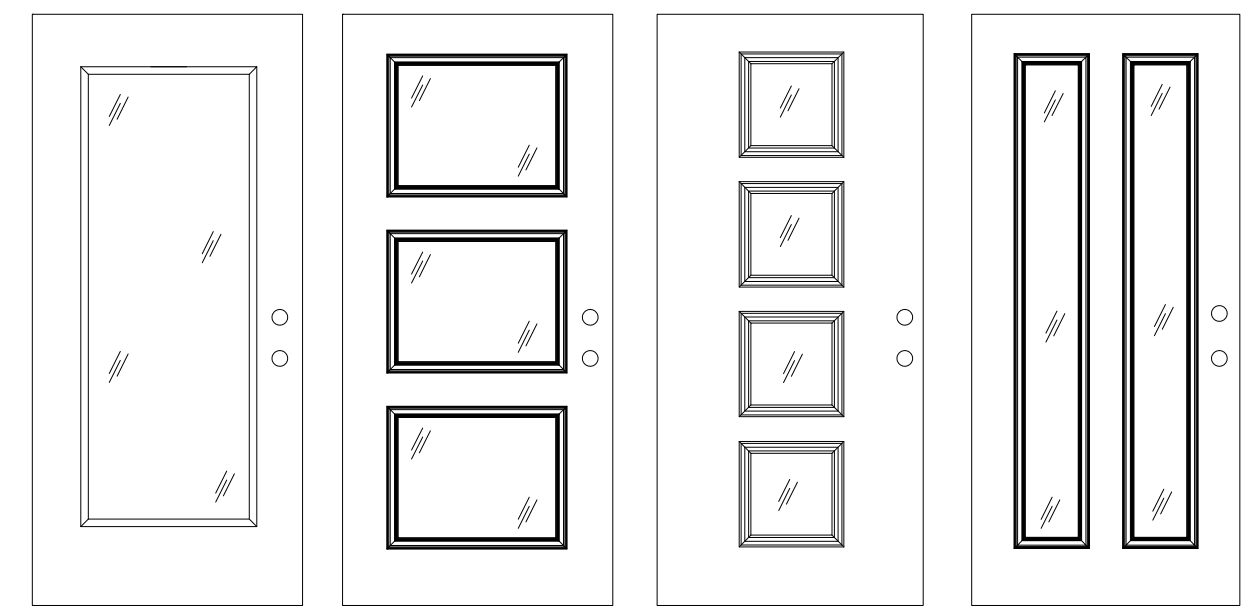


SINGLE W/SIDELITE & TRANSOM
EXTERIOR VIEW



SINGLE W/SIDELITE & TRANSOM
EXTERIOR VIEW

APPROVED LITE CONFIGURATIONS

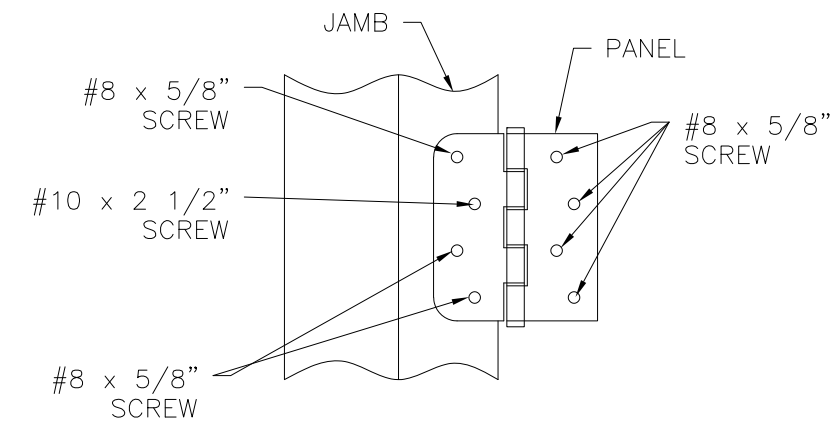


FULL LITE 3 LITE 4 LITE 2 LITE

LITE CONFIGURATIONS SHOWN ARE FOR REFERENCE ONLY. MULTIPLE LITE CONFIGURATIONS ARE APPROVED AS LONG AS LITE SIZE DOES NOT EXCEED 9.2 FT²

NOTE:
ALL APPROVED CONFIGURATIONS ARE SHOWN AS RIGHT HAND ACTIVE, LEFT HAND ACTIVE IS ALSO APPROVED.

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.
H. (2) EXTRUDED ALUMINUM MULLION BY PROVIA DOOR, INC.



HINGE INSTALLATION DETAIL

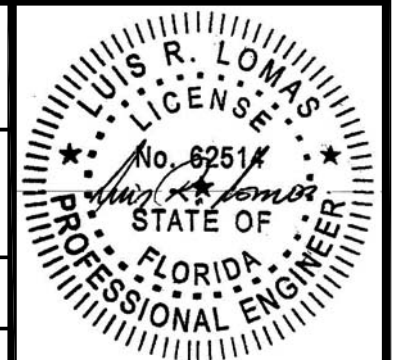
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20GA. STEEL IS PATIO DOOR
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ADDITIONAL CONFIGURATIONS & HARDWARE

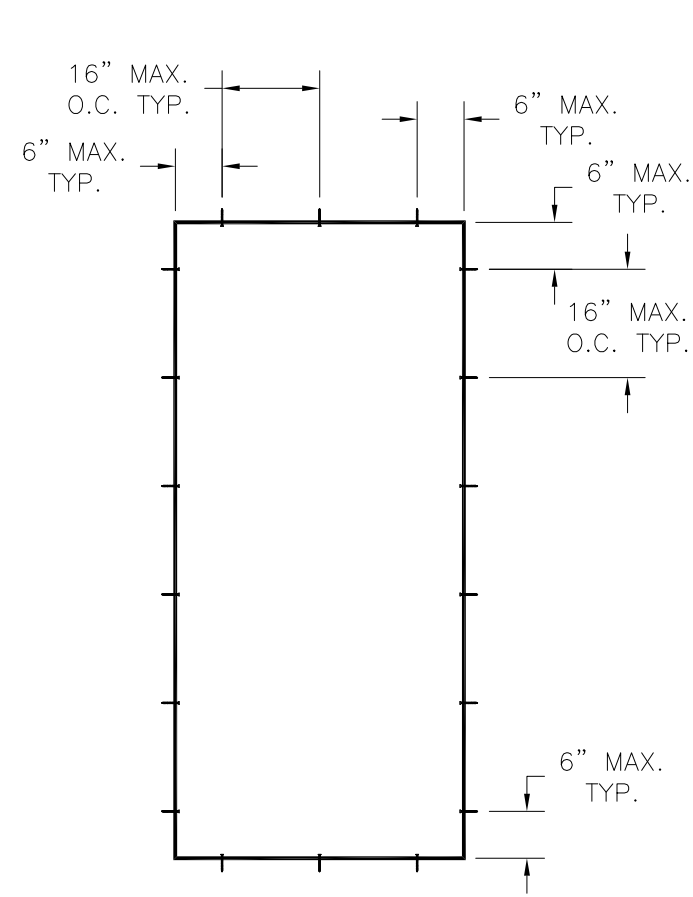
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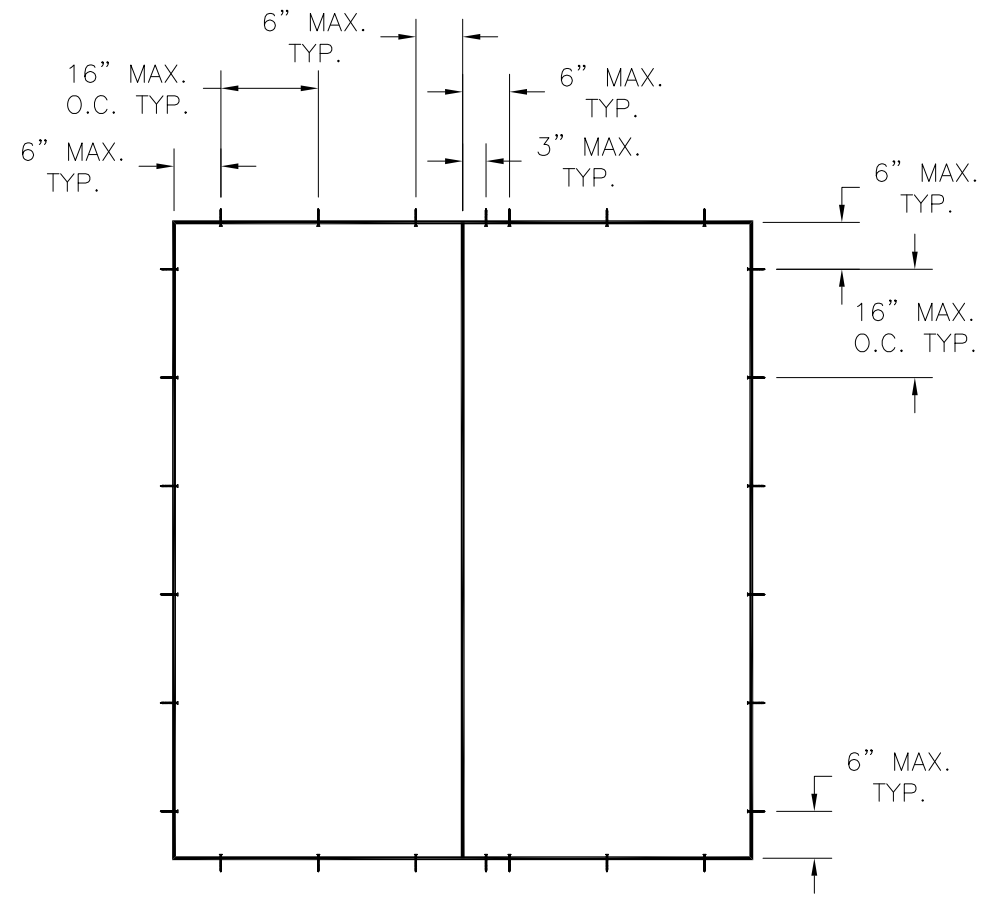


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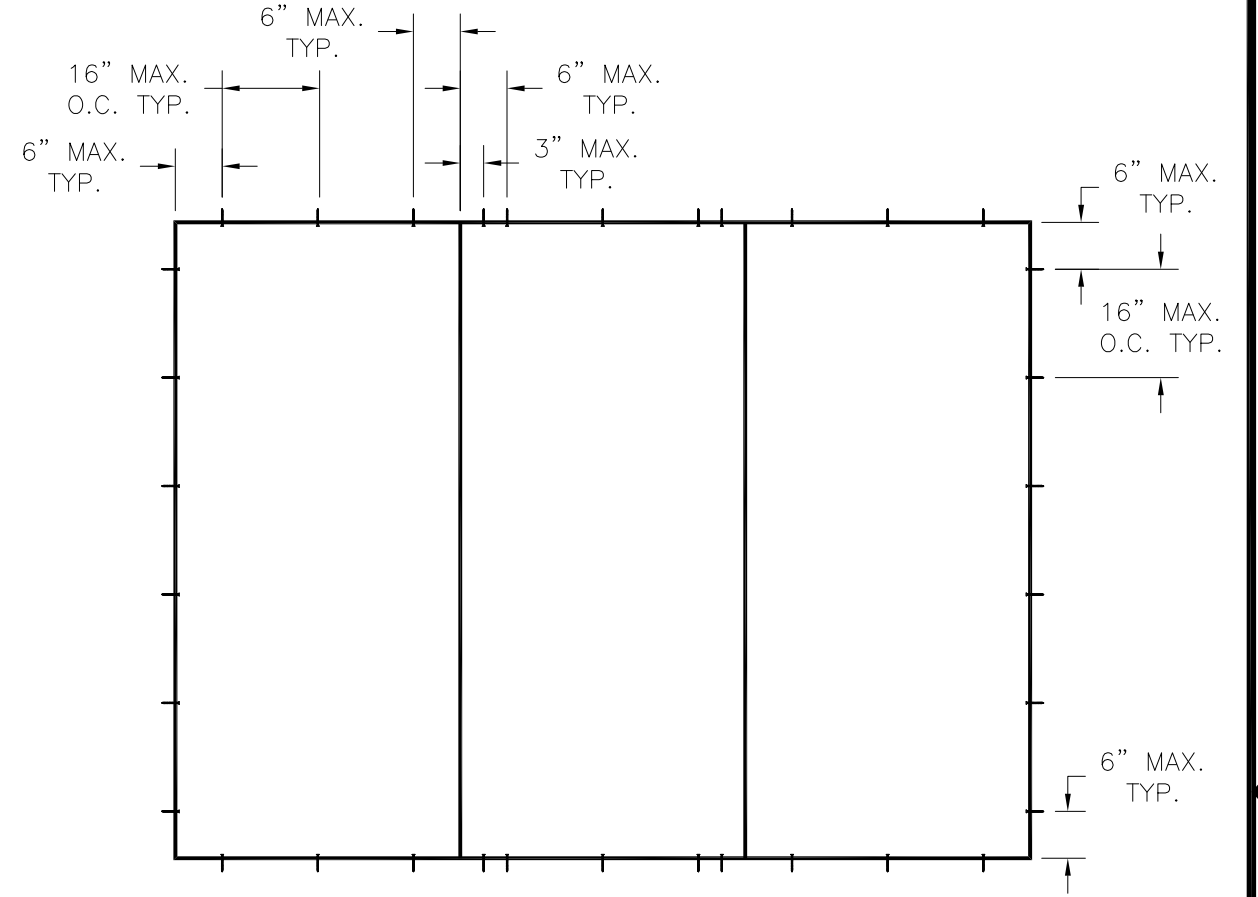
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SINGLE



SINGLE W/SIDELITE



SINGLE W/SIDELITES

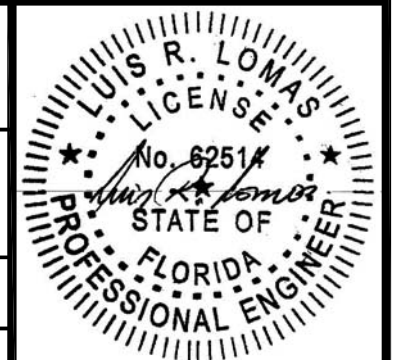
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20GA. STEEL IS PATIO DOOR
 W/ OR WITHOUT SIDELITES AND TRANSOM
 ANCHORING LAYOUT WITHOUT TRANSOMS

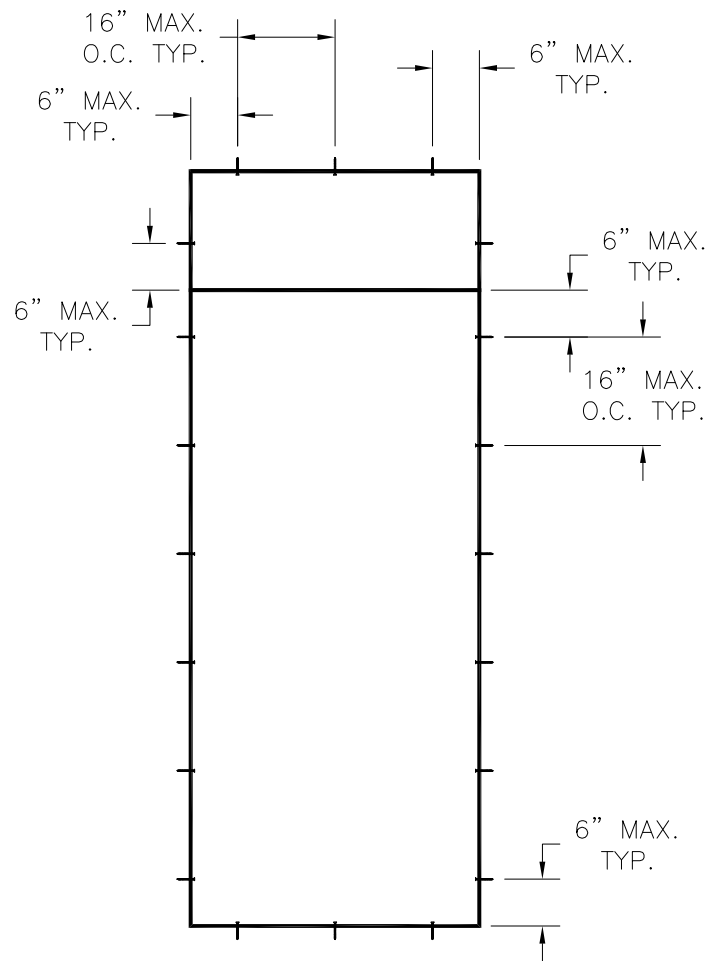
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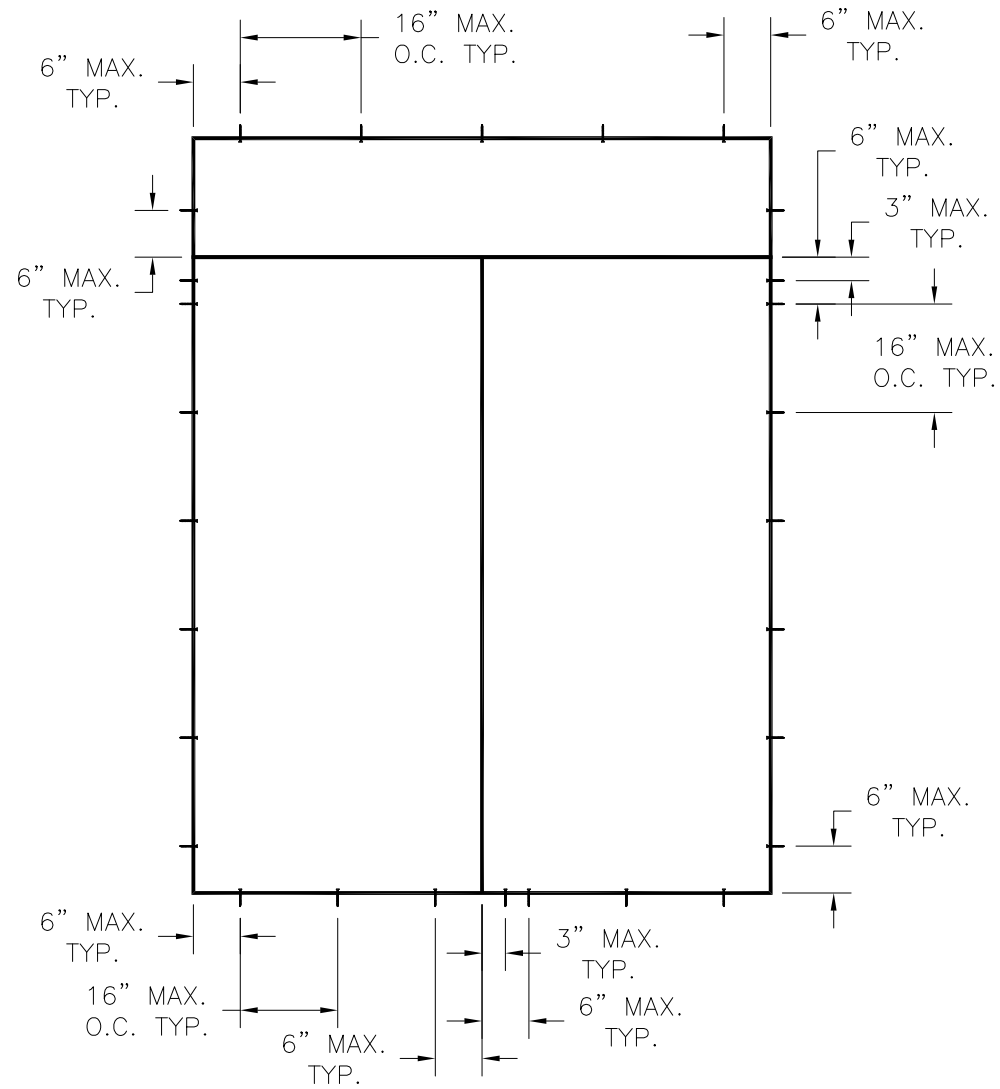


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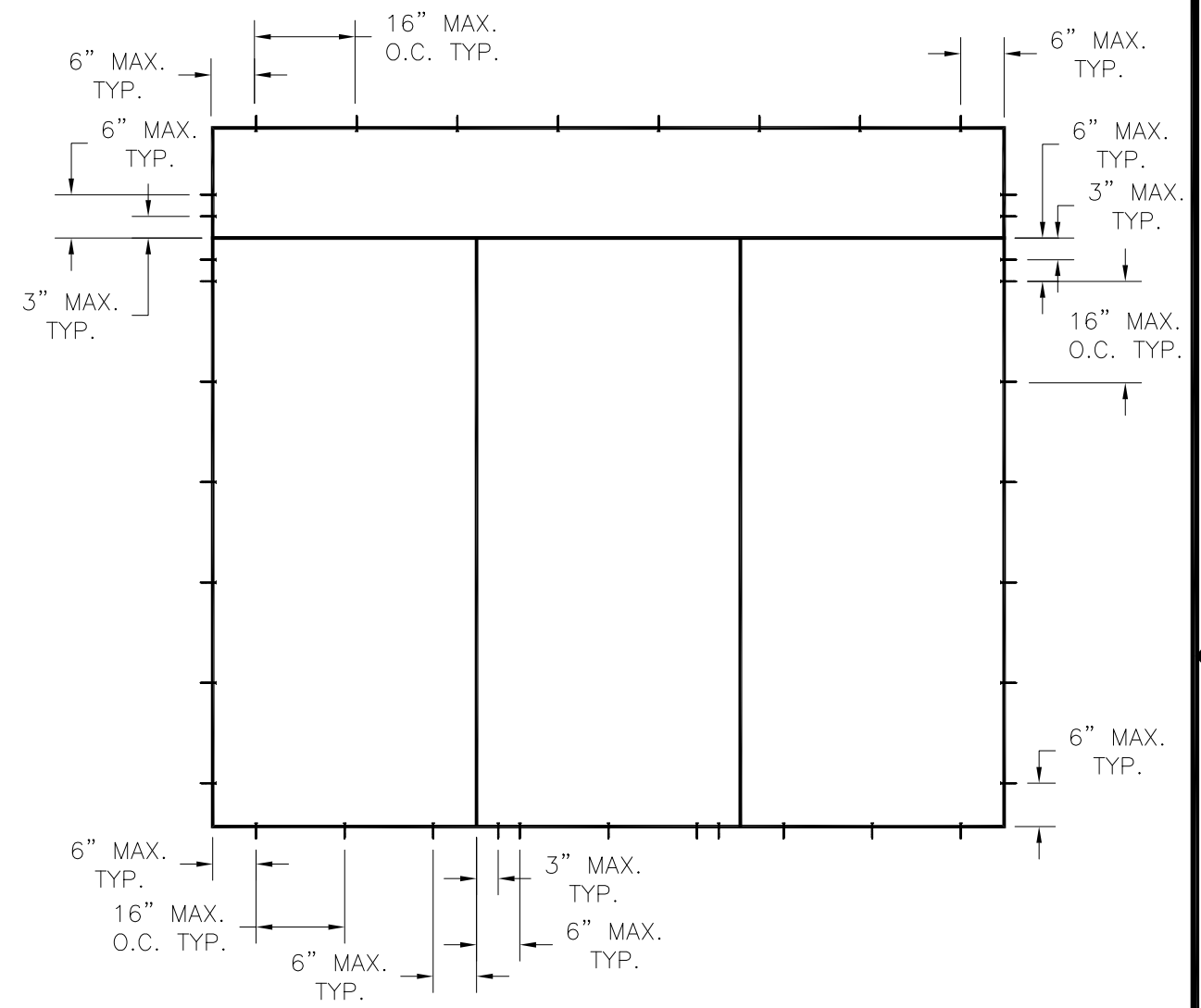
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SINGLE WITH TRANSOM



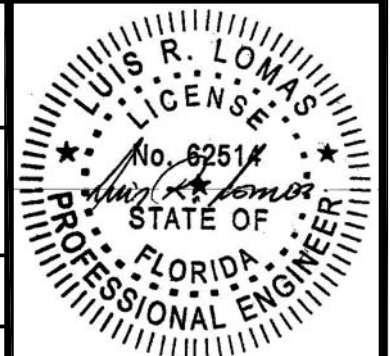
SINGLE W/SIDELITE & TRANSOM



SINGLE W/SIDELITES & TRANSOM

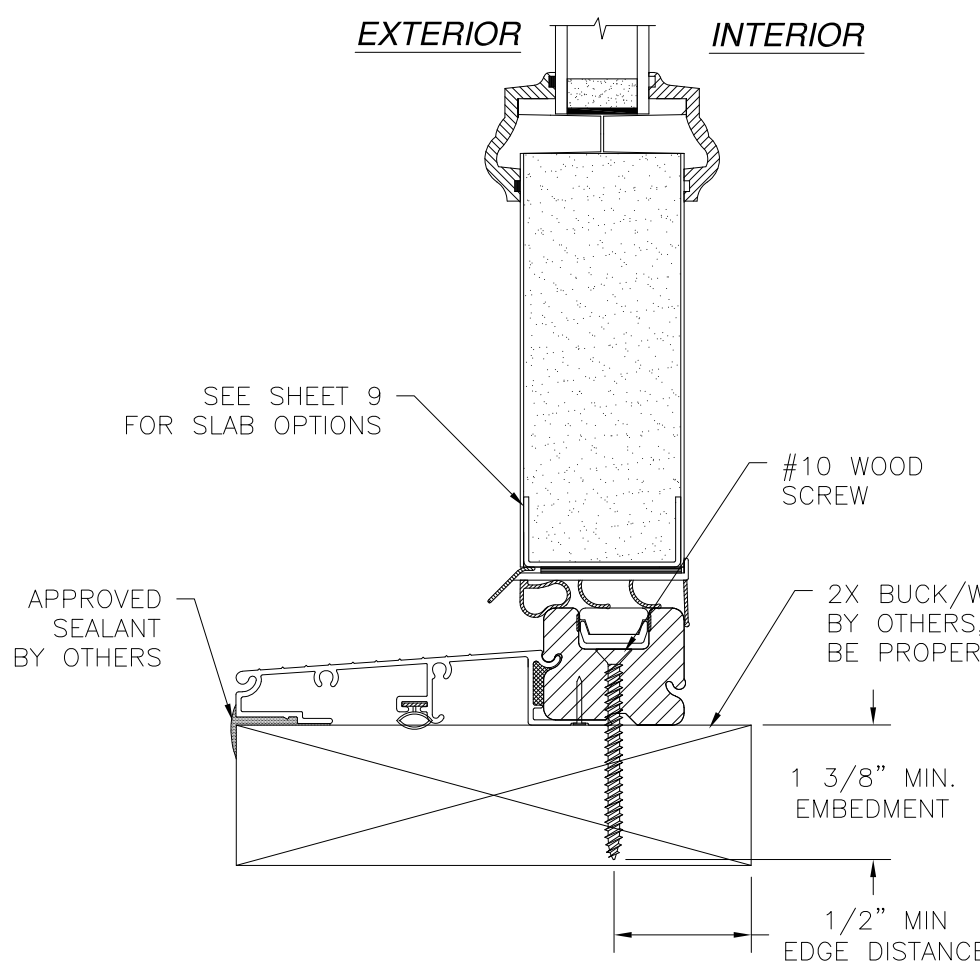
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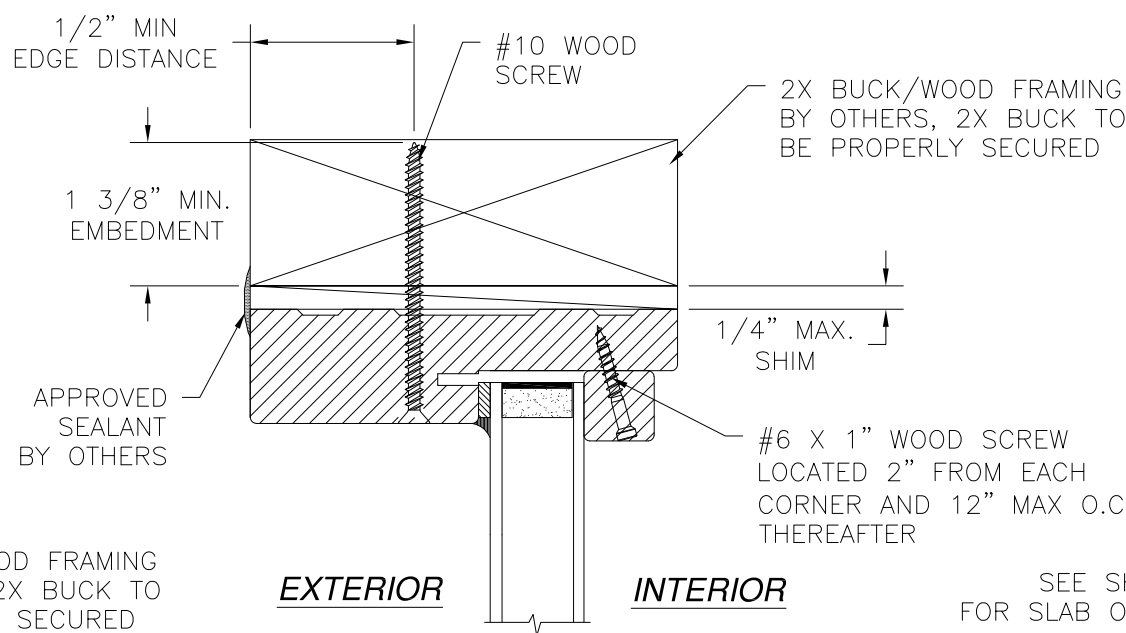


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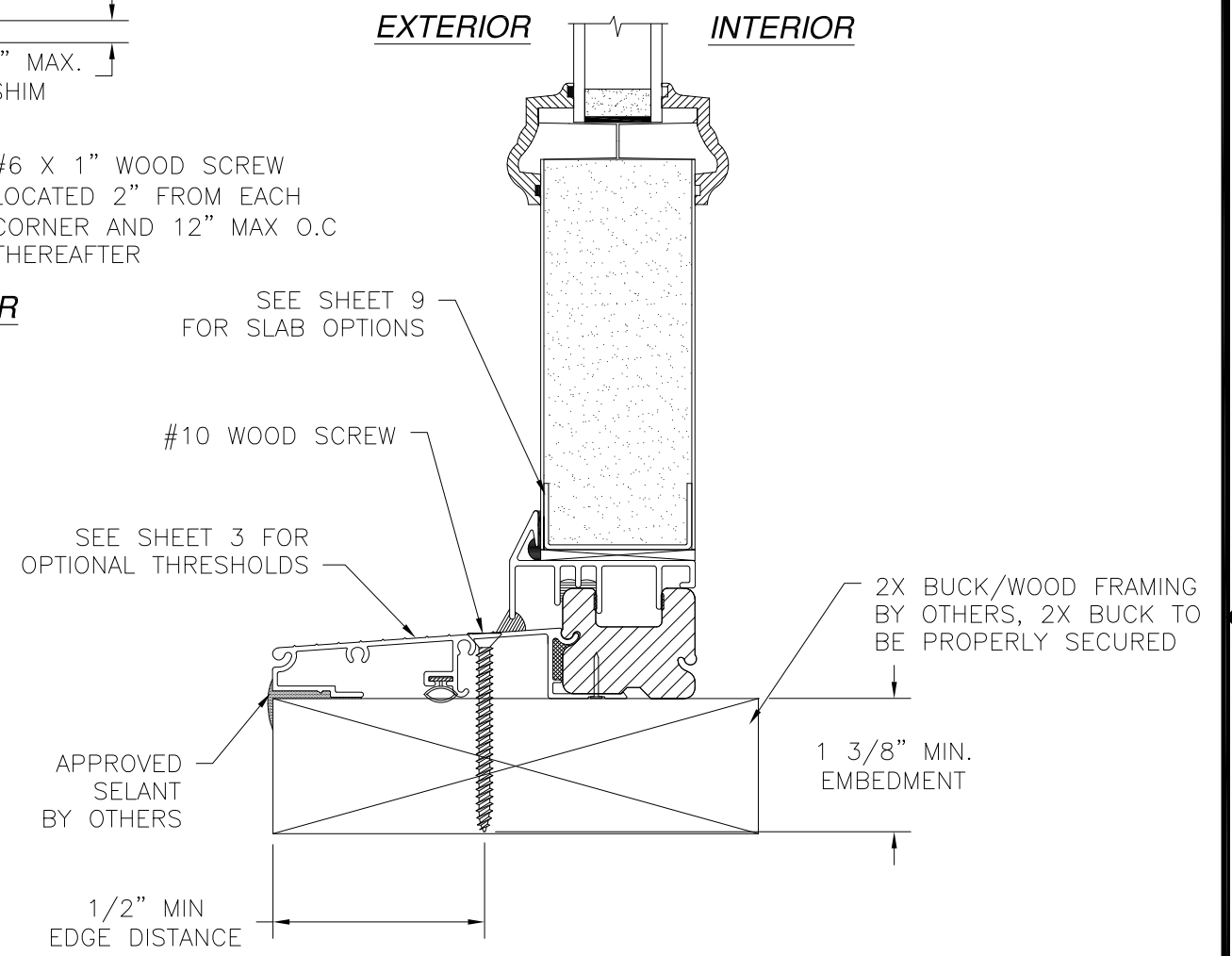
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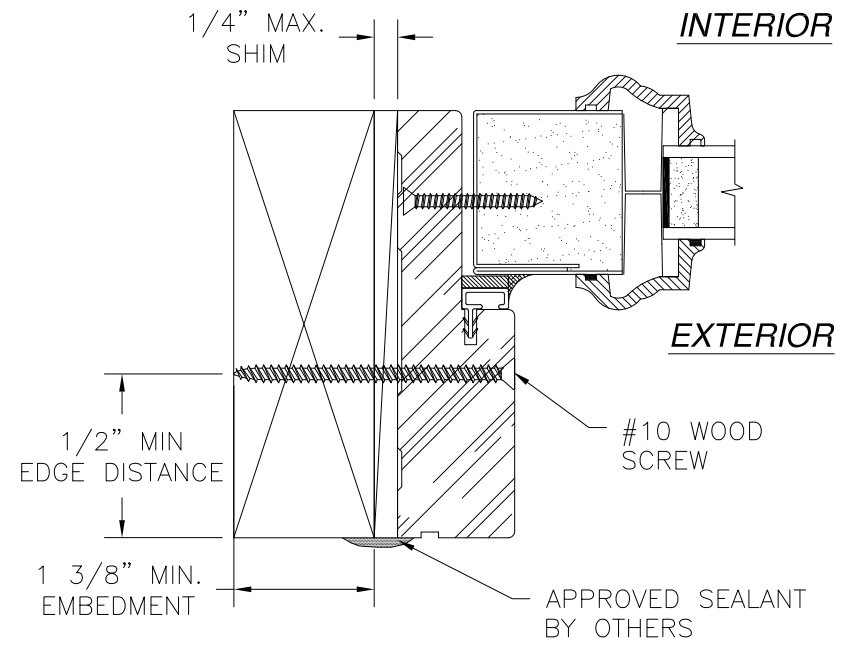
**DOOR SILL DETAIL
INSWING**
2X BUCK/WOOD FRAMING INSTALLATION



**TRANSOM DETAIL
INSWING**
2X BUCK/WOOD FRAMING INSTALLATION
HEAD SHOWN JAMB SIMILAR



**SIDELITE SILL DETAIL
INSWING**
2X BUCK/WOOD FRAMING INSTALLATION



JAMB DETAIL INSWING
2X BUCK/WOOD FRAMING INSTALLATION
SIDELITE JAMB SHOWN, HINGE AND STRIKE
JAMB AND HEAD 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

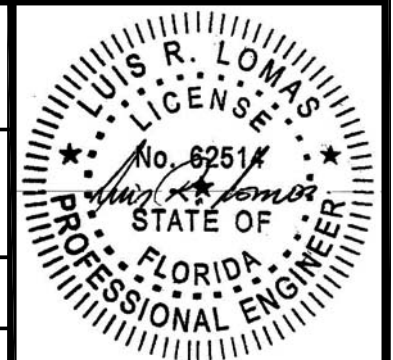
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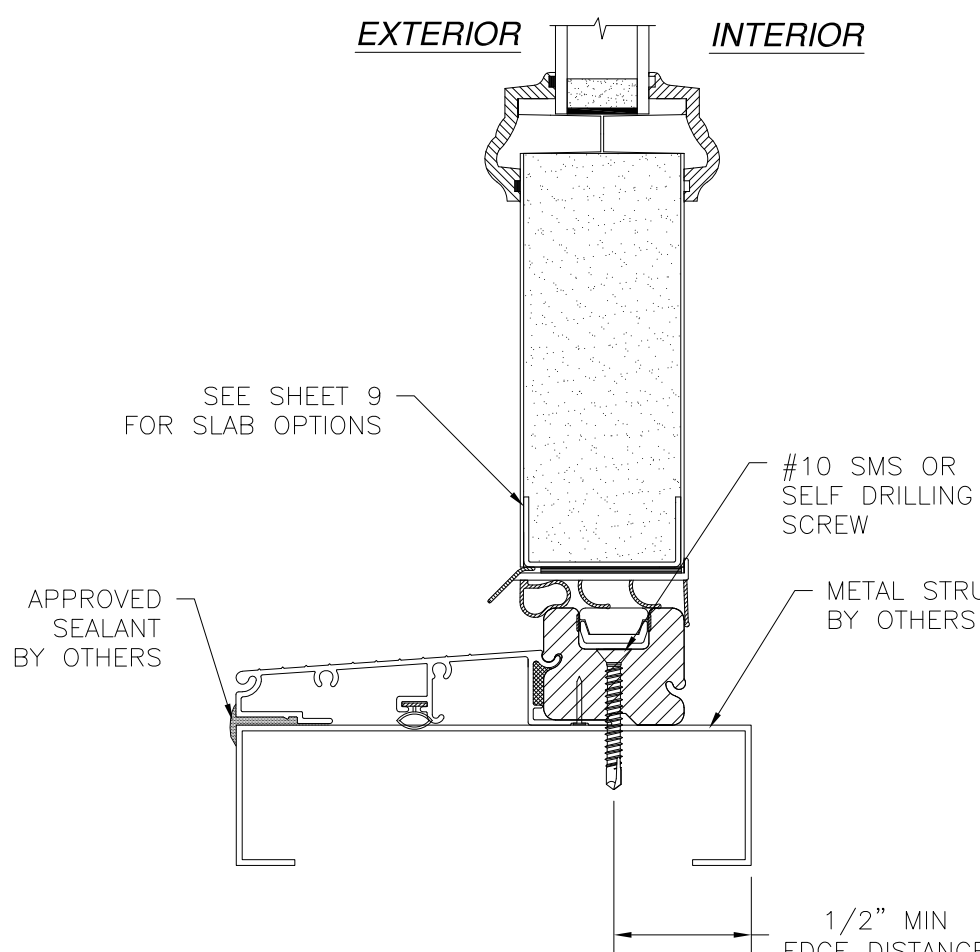
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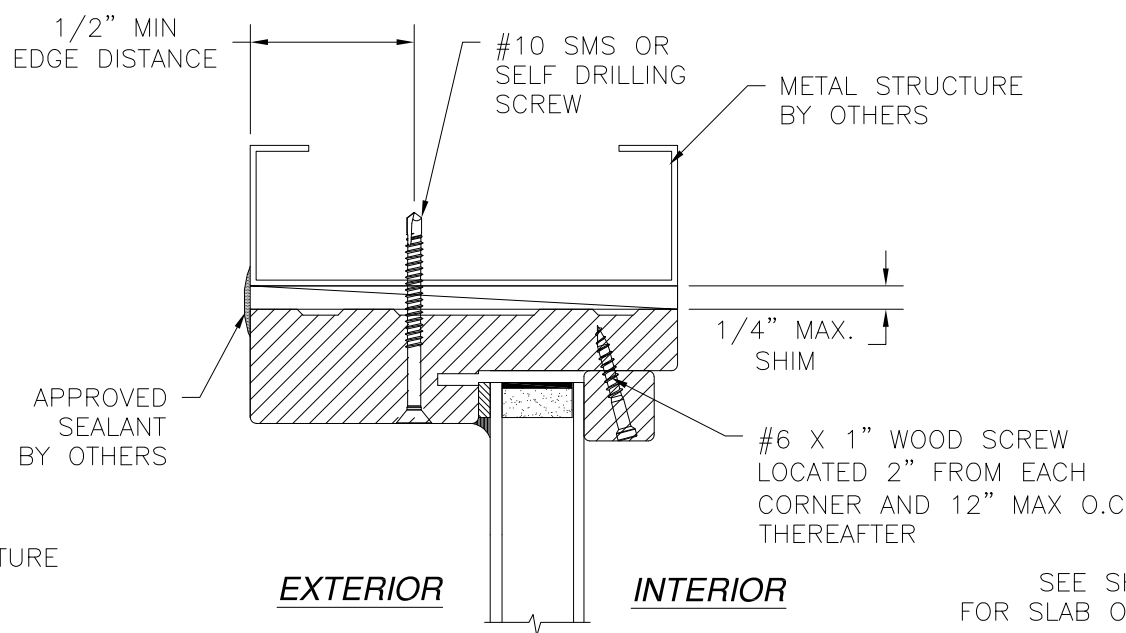


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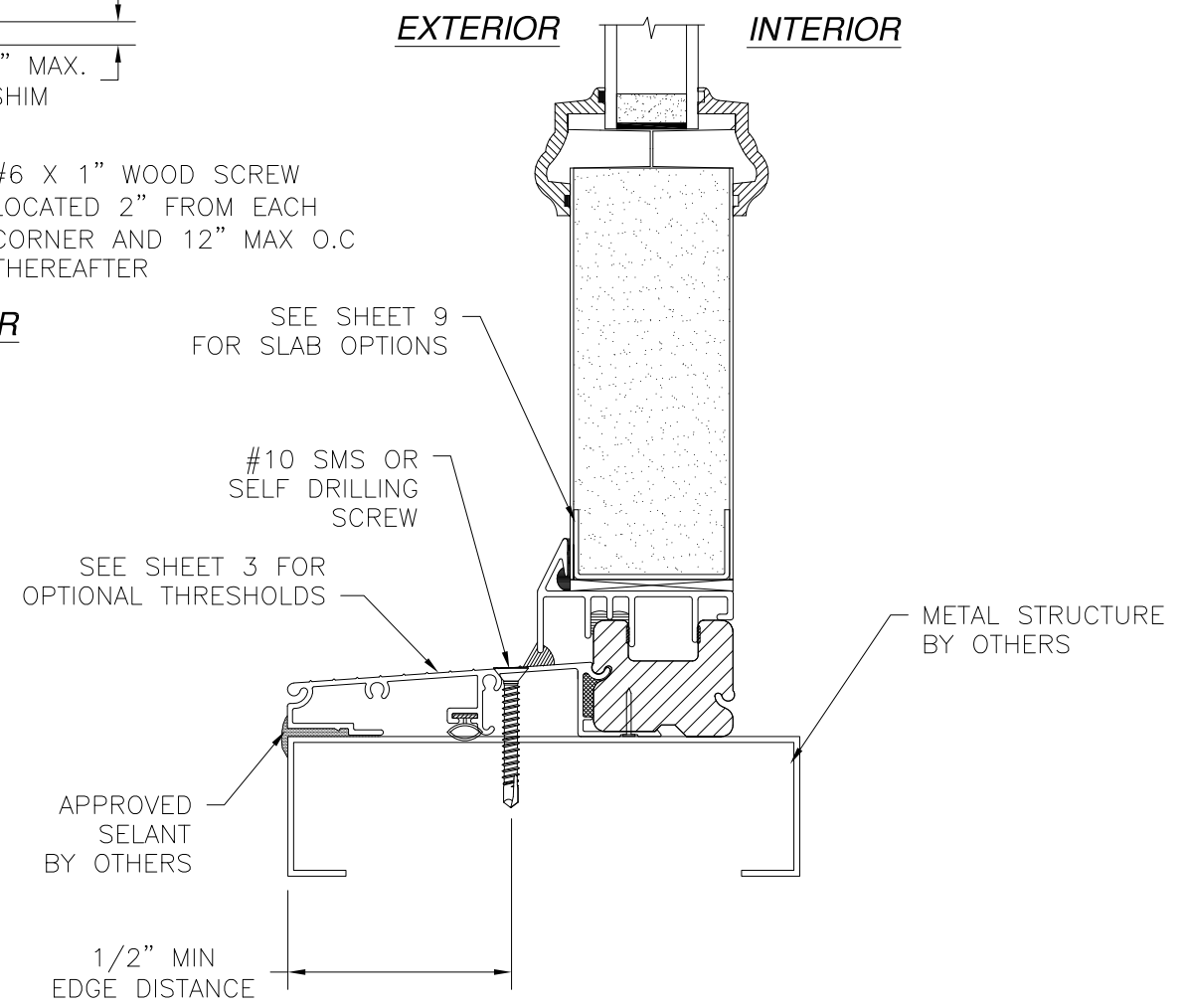
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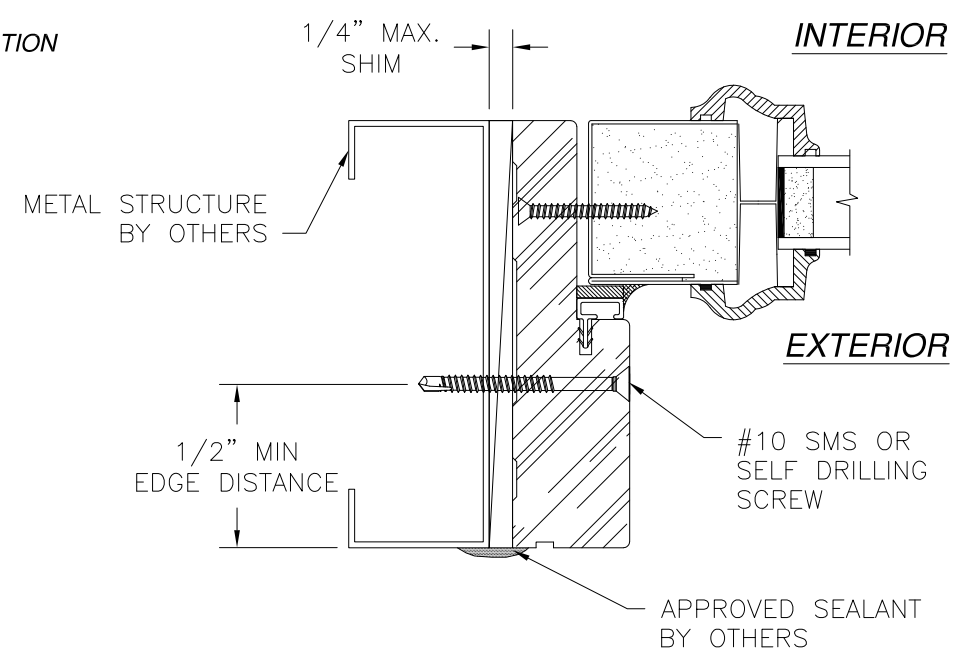
**DOOR SILL DETAIL
INSWING
METAL STRUCTURE INSTALLATION**



**TRANSOM DETAIL
INSWING
METAL STRUCTURE INSTALLATION
HEAD SHOWN JAMB SIMILAR**



**SIDELITE SILL DETAIL
INSWING
METAL STRUCTURE INSTALLATION**



**JAMB DETAIL INSWING
METAL STRUCTURE INSTALLATION
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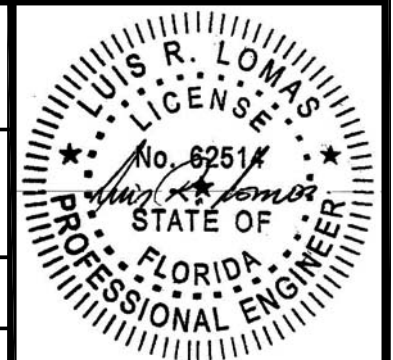
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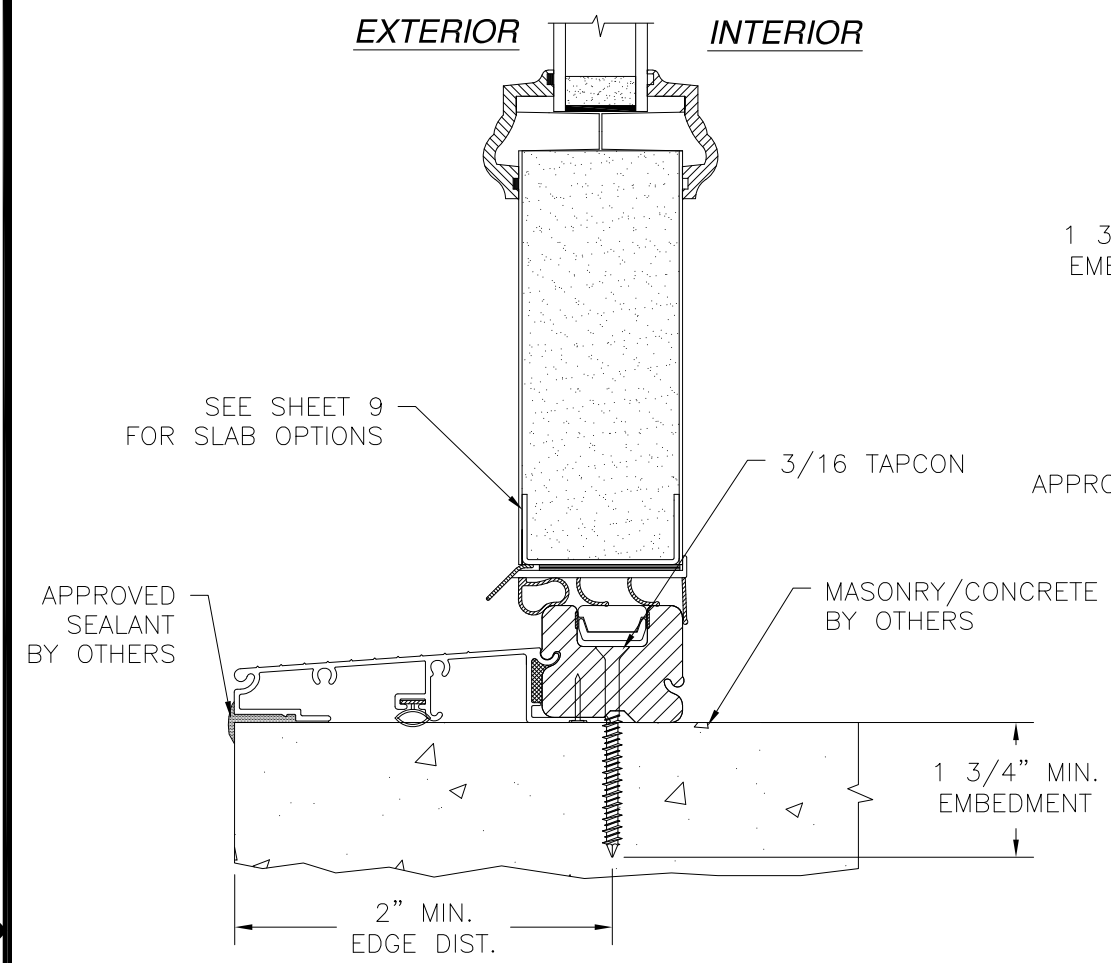
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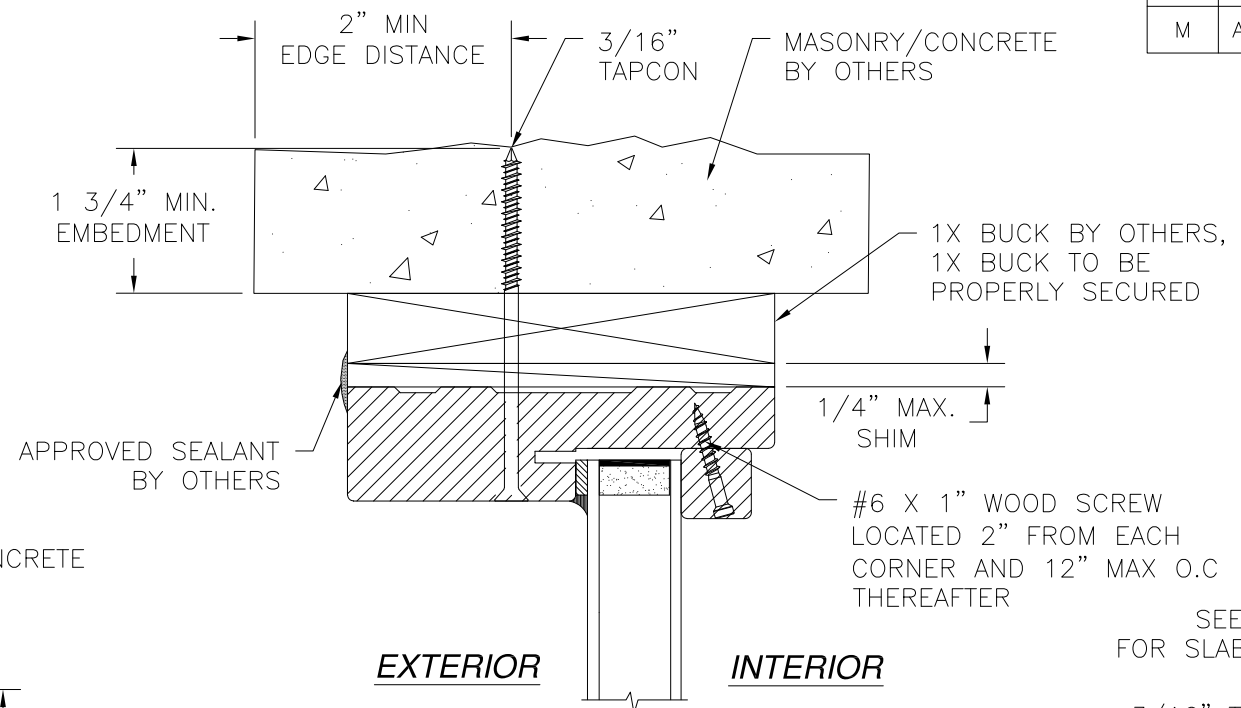


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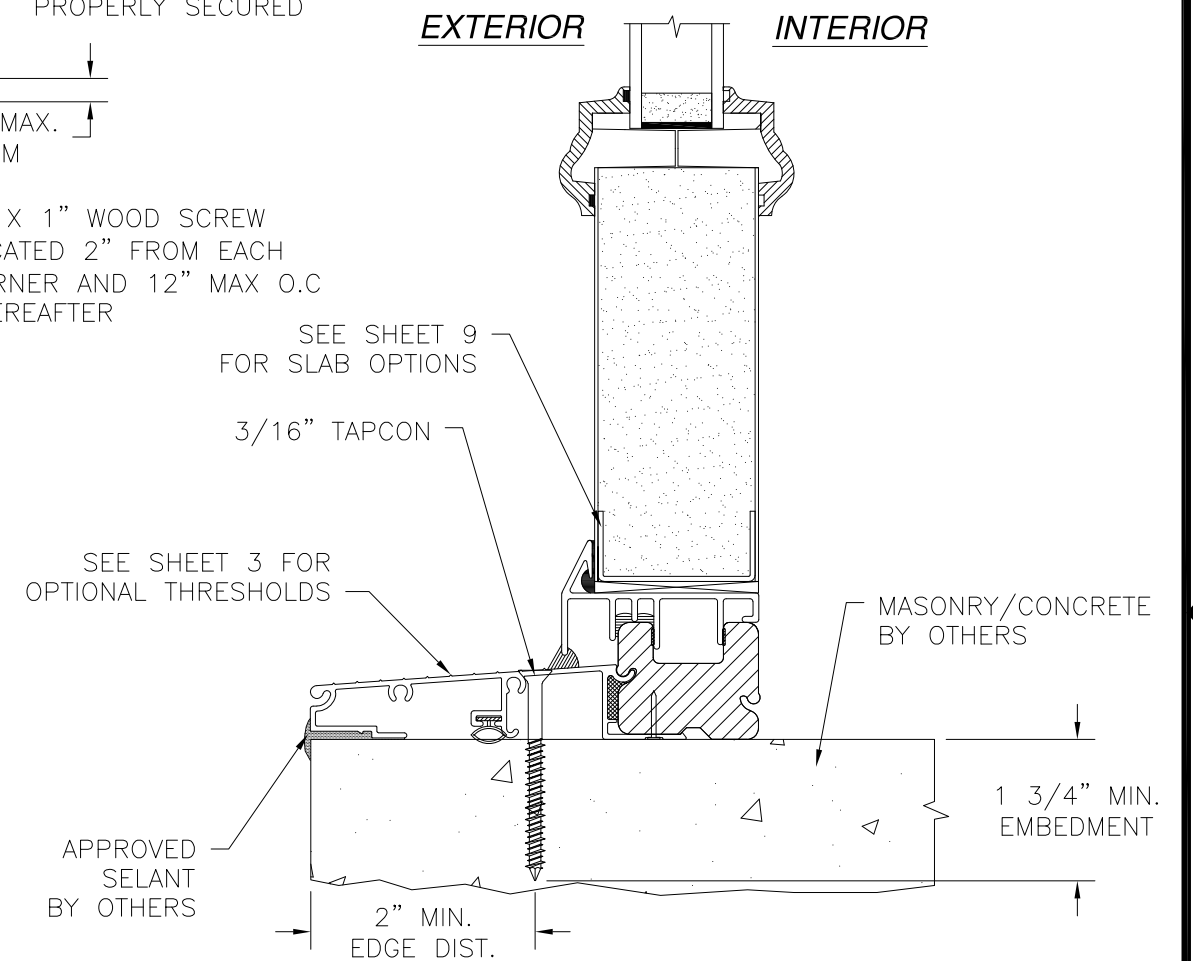
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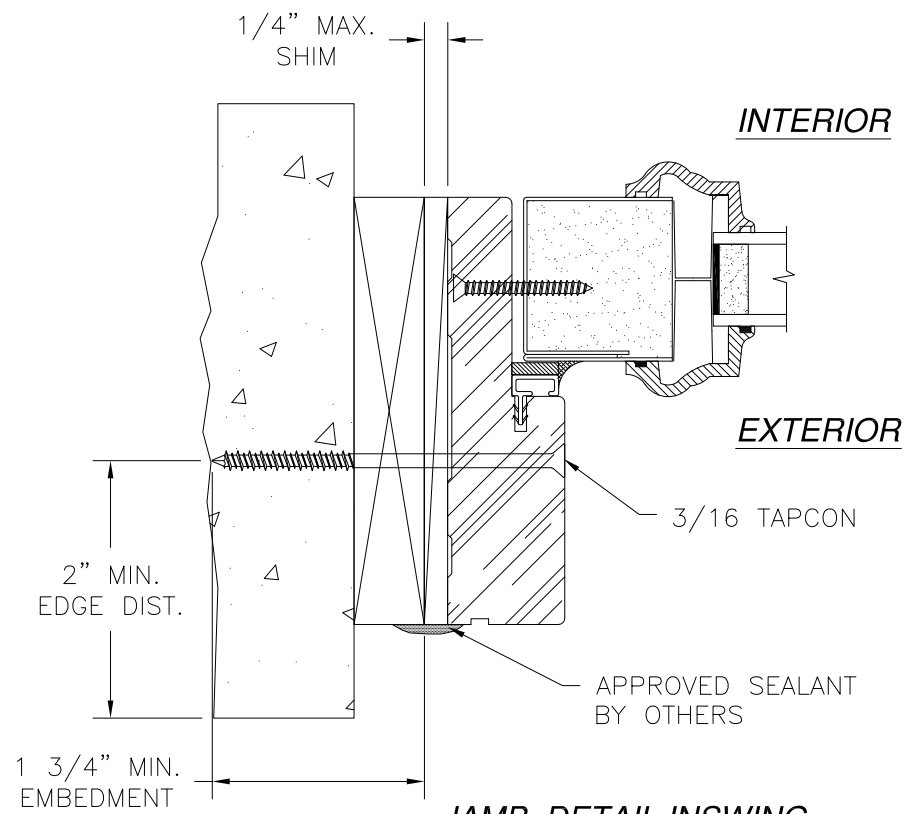
**DOOR SILL DETAIL
INSWING
MASONRY/CONCRETE INSTALLATION**



**TRANSOM DETAIL
INSWING
MASONRY/CONCRETE INSTALLATION
HEAD SHOWN JAMB SIMILAR**



**SIDELITE SILL DETAIL
INSWING
MASONRY/CONCRETE INSTALLATION**



**JAMB DETAIL INSWING
MASONRY/CONCRETE INSTALLATION
SIDELITE JAMB SHOWN, HINGE AND STRIKE
JAMB AND HEAD SIMILAR**

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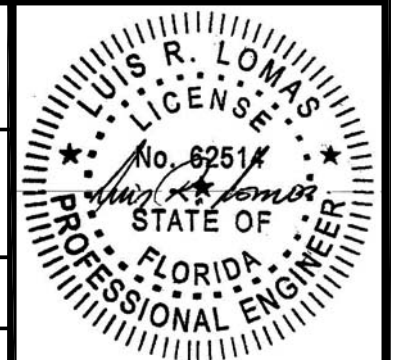
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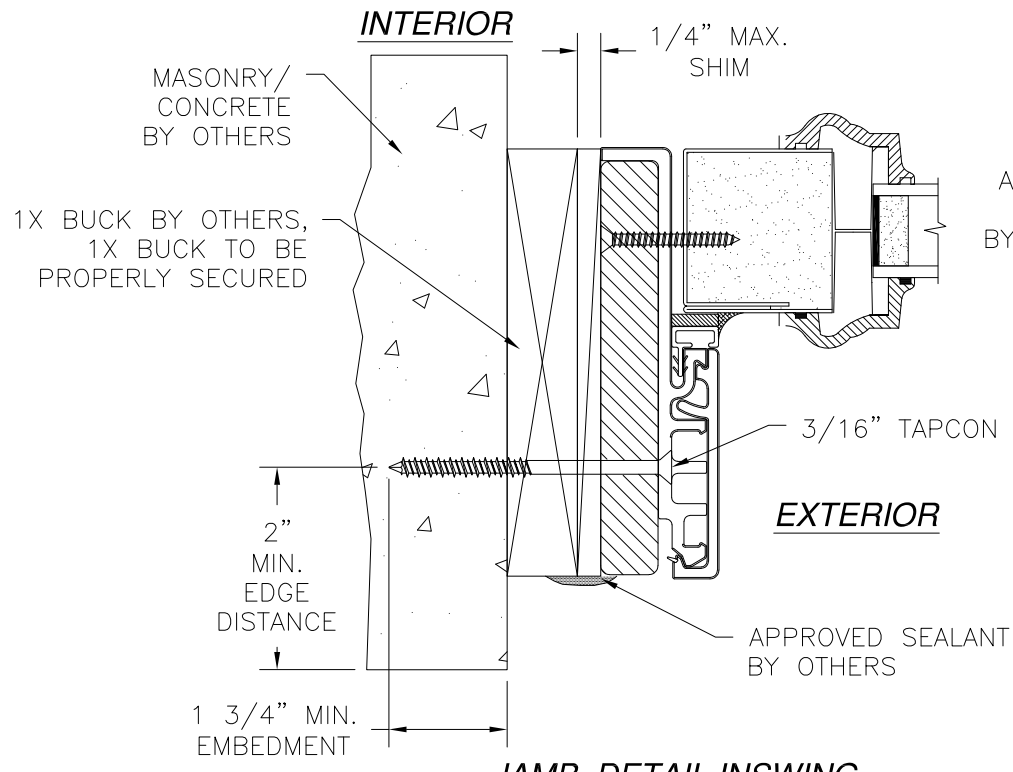


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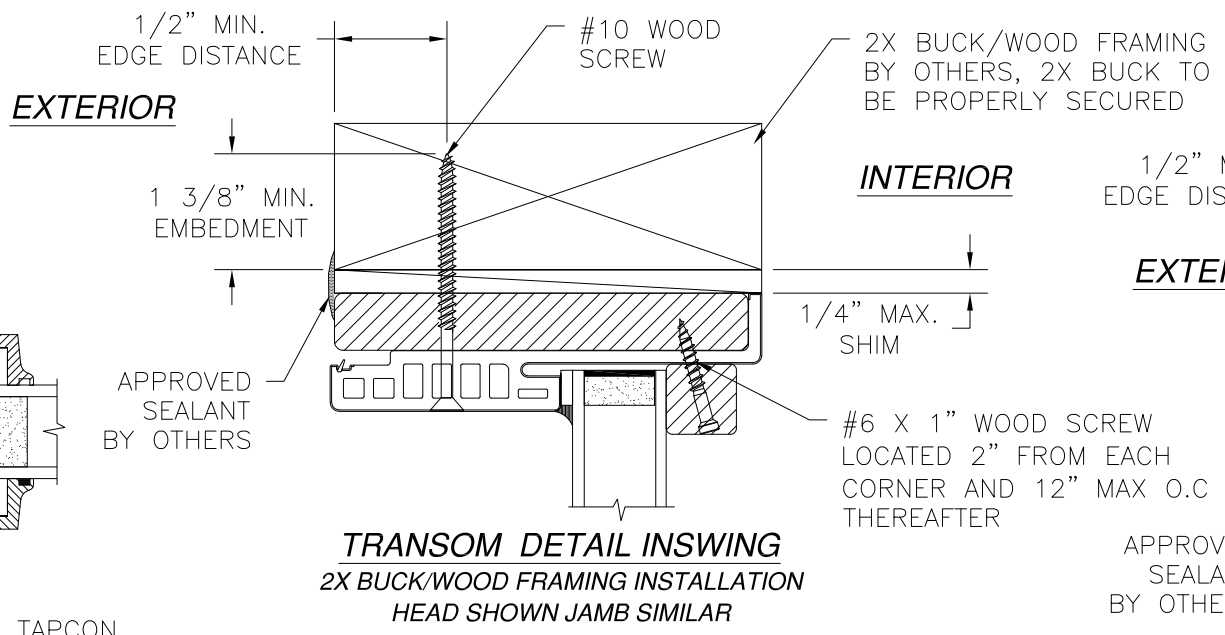
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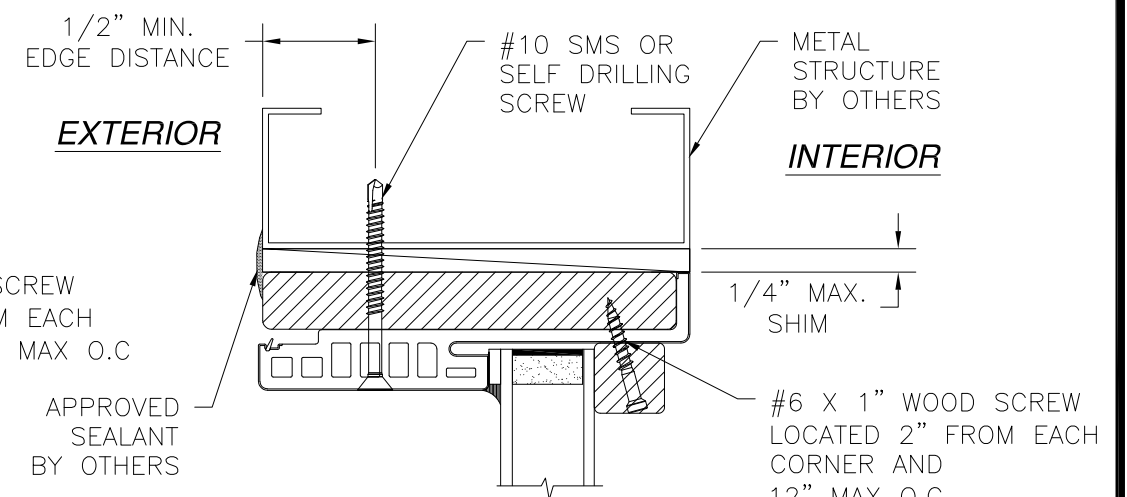
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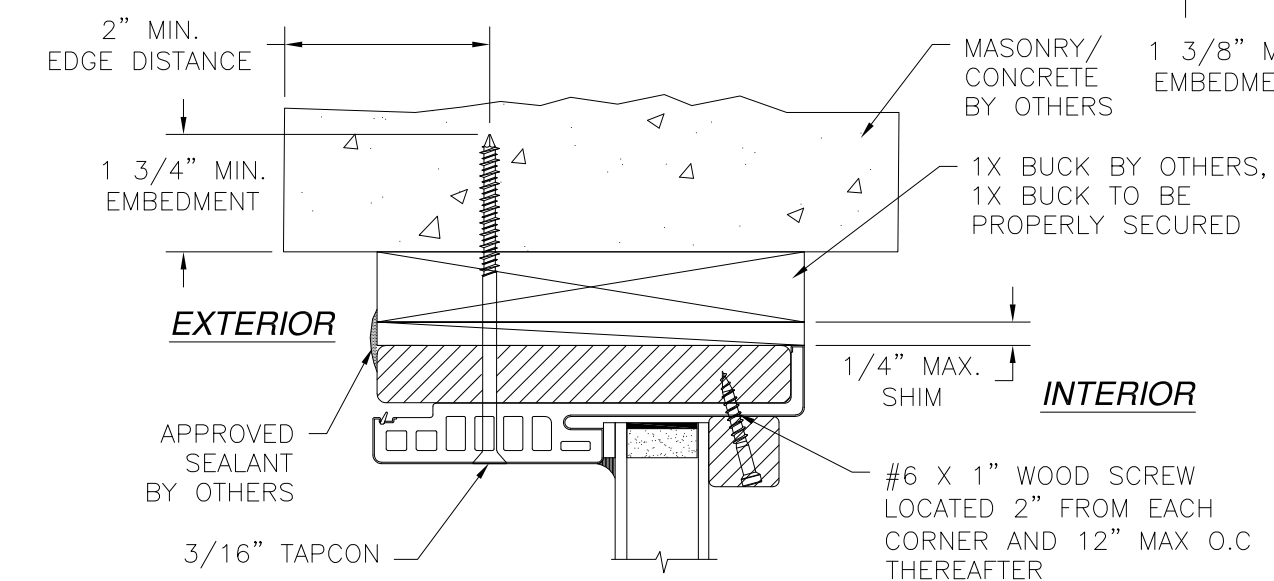
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MASONRY/CONCRETE INSTALLATION
SIDELITE JAMB SHOWN, HINGE AND STRIKE
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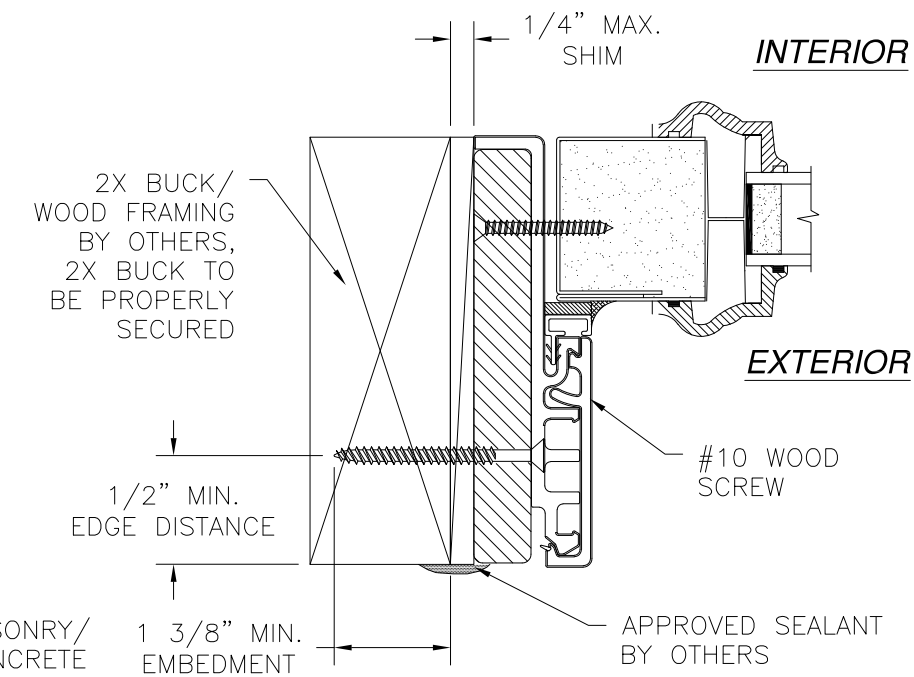
TRANSOM DETAIL INSWING
2X BUCK/WOOD FRAMING INSTALLATION
HEAD SHOWN JAMB SIMILAR



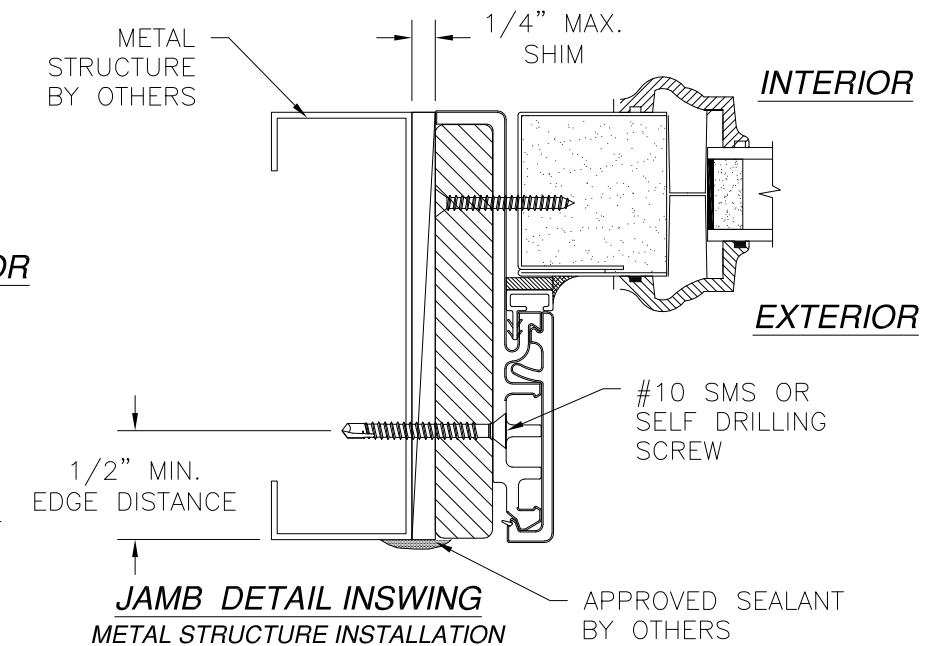
TRANSOM DETAIL INSWING
METAL STRUCTURE INSTALLATION
HEAD SHOWN JAMB SIMILAR



TRANSOM DETAIL INSWING
MASONRY/CONCRETE INSTALLATION
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2X BUCK/WOOD FRAMING INSTALLATION
SIDELITE JAMB SHOWN, HINGE AND STRIKE
JAMB AND HEAD SIMILAR



JAMB DETAIL INSWING
METAL STRUCTURE INSTALLATION
SIDELITE JAMB SHOWN, HINGE AND STRIKE
JAMB AND HEAD SIMILAR

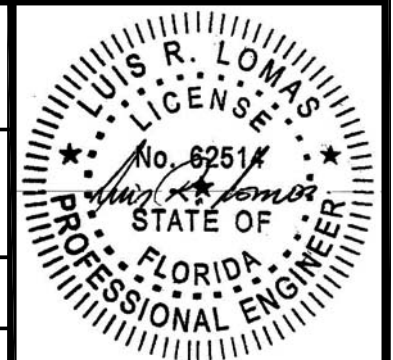
SIGNED: 09/08/2021

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

20GA. STEEL IS PATIO DOOR
W/ OR WITHOUT SIDELITES AND TRANSOM
INSTALLATION DETAILS W/FUSION FRAME

DRAWN: TJH	DWG NO. 08-00709	REV M
SCALE NTS	DATE 03/17/09	SHEET 9 OF 12

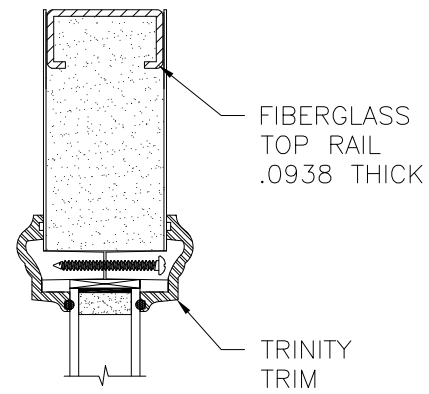
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@rlomaspe.com



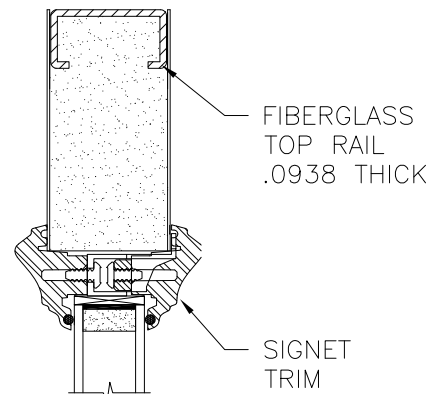
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
M	ADDED COMPOSITE FRAME	09/08/2021	R.L.

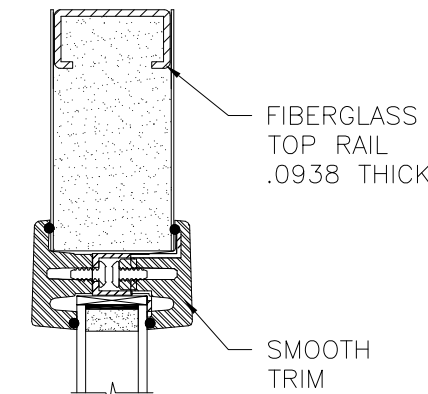
APPROVED SLABS AND TRIMS



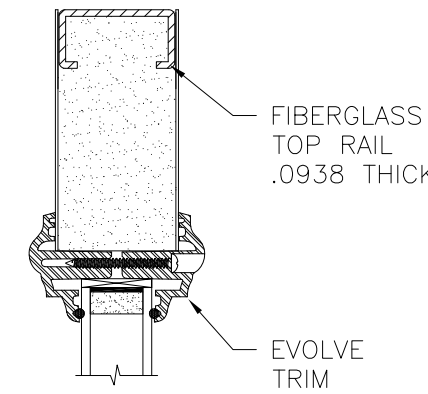
OPTION 1
TRINITY TRIM



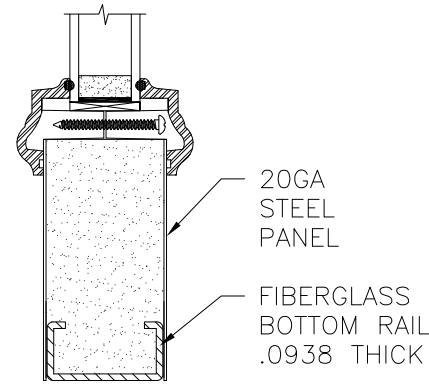
OPTION 2
SIGNET TRIM



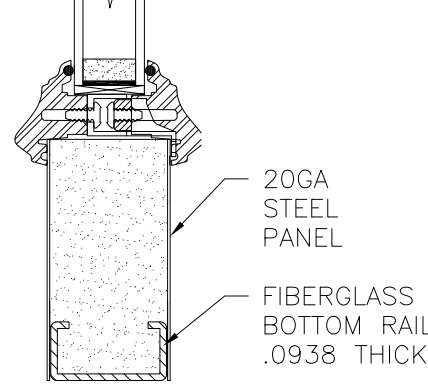
OPTION 3
SMOOTH TRIM



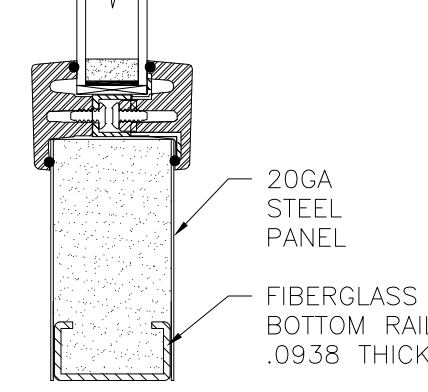
OPTION 4
EVOLVE TRIM



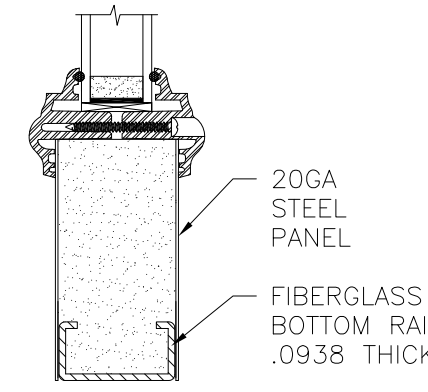
OPTION 5
SPOTLIGHT TRIM



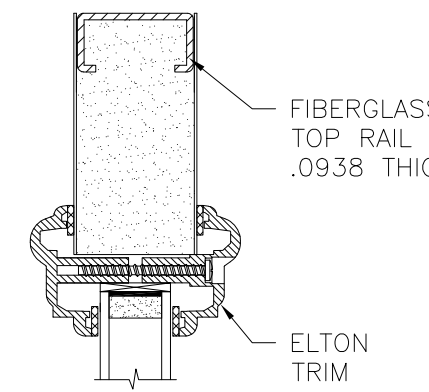
OPTION 6
RSL TRIM



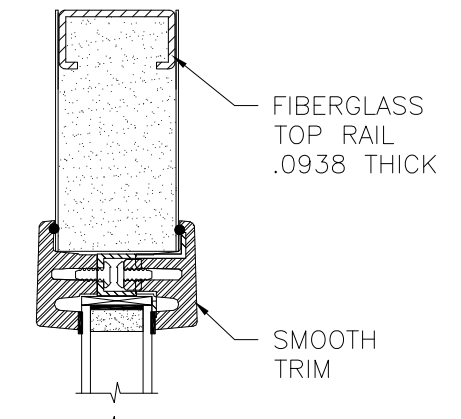
OPTION 7
STANDARD TRIM



OPTION 15
PLUGLESS TRIM
W/TAPE



OPTION 16
ELTON TRIM



OPTION 17
SMOOTH TRIM
W/TAPE

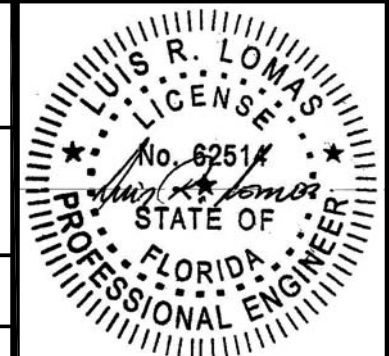
PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

20GA. STEEL IS PATIO DOOR
W/ OR WITHOUT SIDELITES AND TRANSOM
APPROVED SLABS AND TRIMS

DRAWN: TJH	DWG NO. 08-00709	REV M
SCALE NTS	DATE 03/17/09	SHEET 10 OF 12

L. ROBERTO LOMAS P.E.
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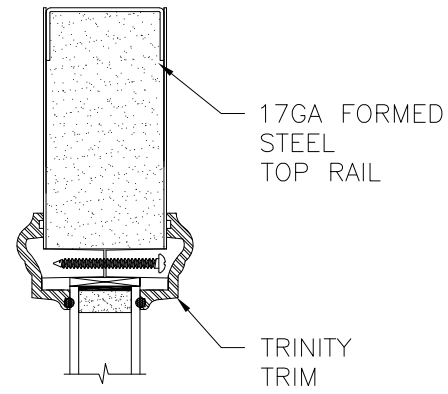
SIGNED: 09/08/2021



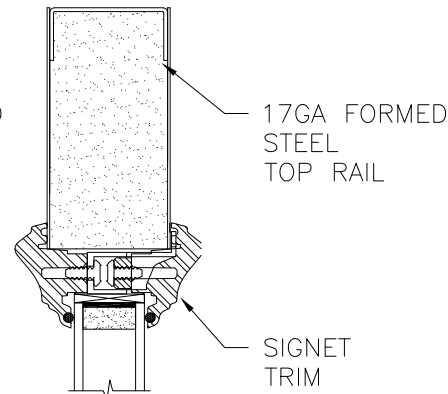
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
M	ADDED COMPOSITE FRAME	09/08/2021	R.L.

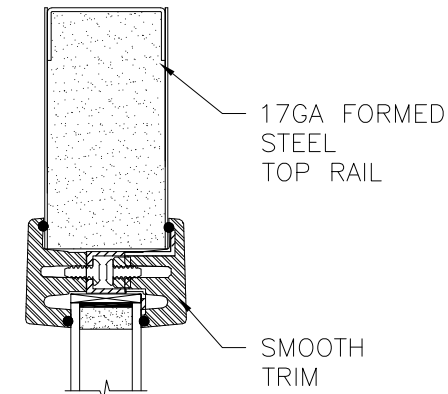
APPROVED SLABS AND TRIMS



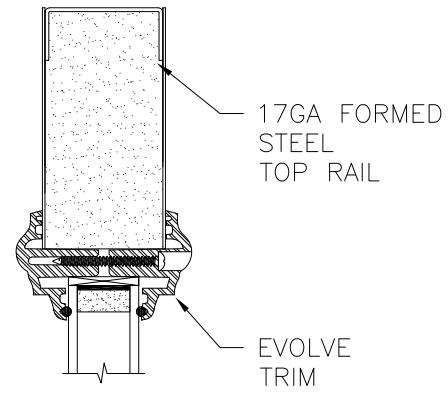
OPTION 8
TRINITY TRIM



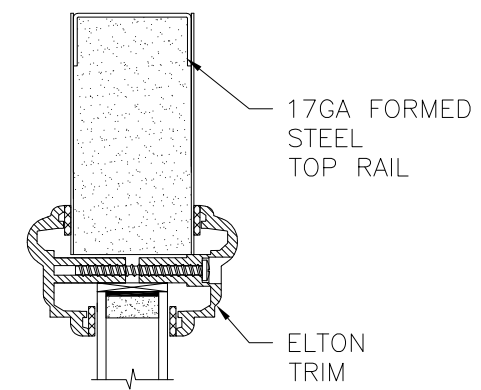
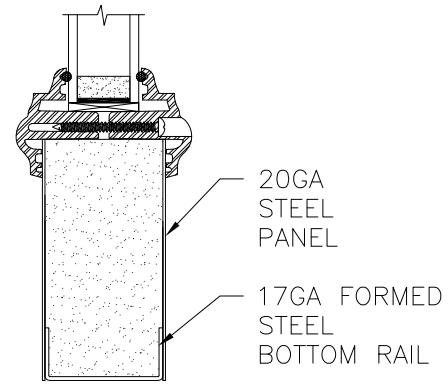
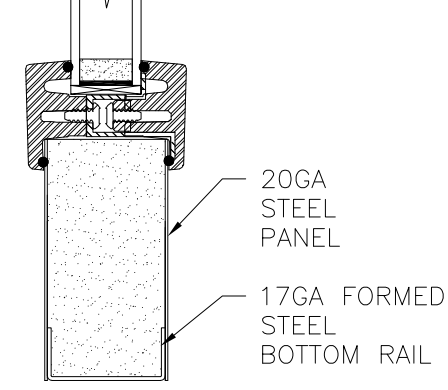
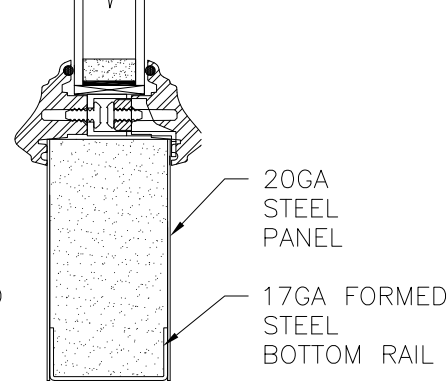
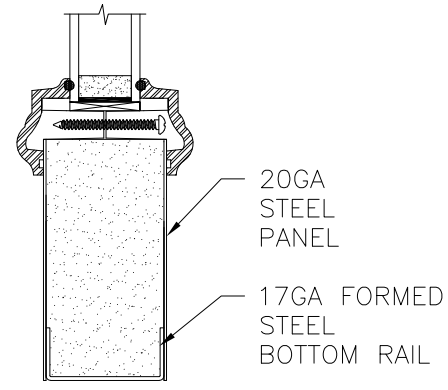
OPTION 9
SIGNET TRIM



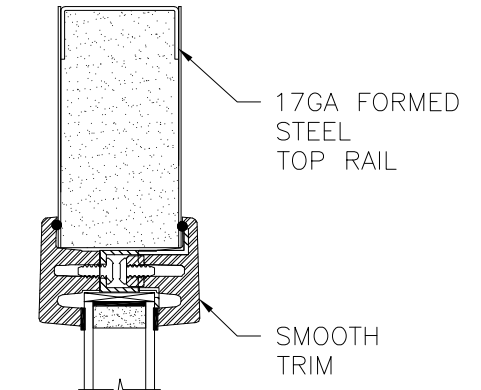
OPTION 10
SMOOTH TRIM



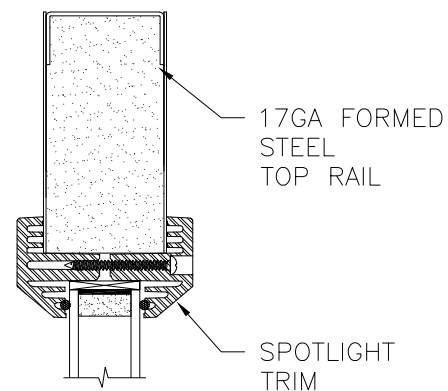
OPTION 11
EVOLVE TRIM



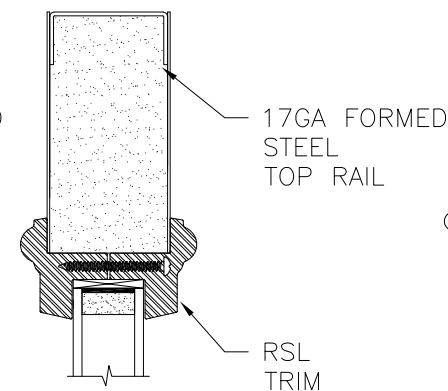
OPTION 19
ELTON TRIM



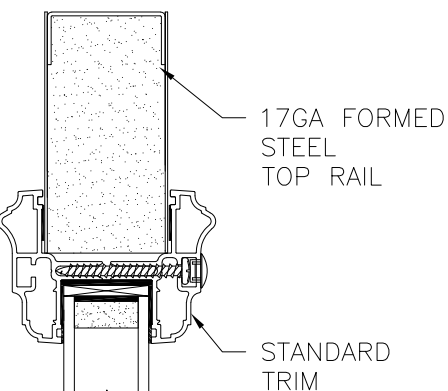
OPTION 20
SMOOTH TRIM
W/TAPE



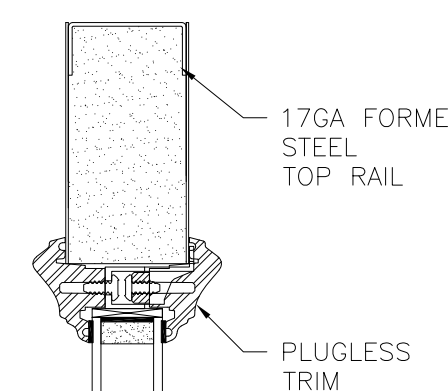
OPTION 12
SPOTLIGHT TRIM



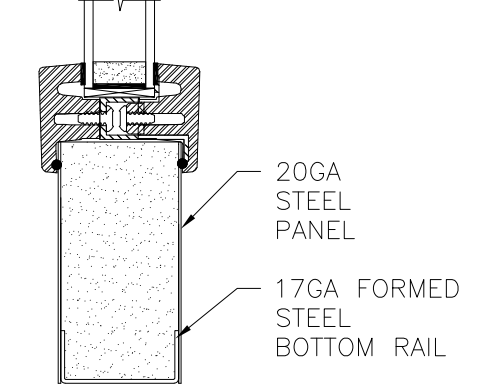
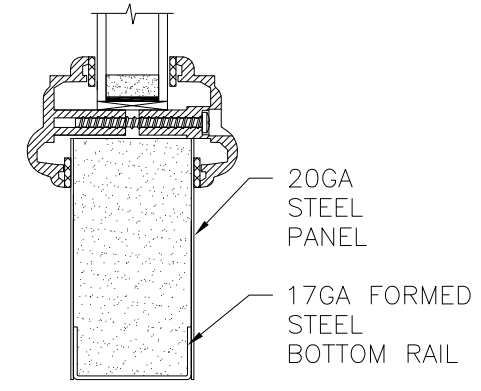
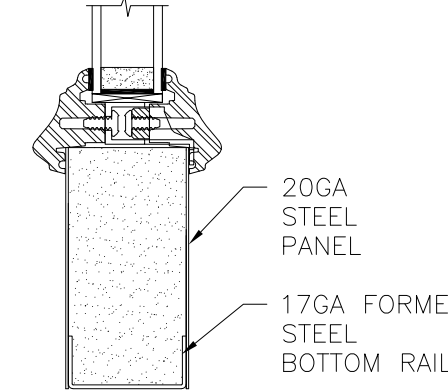
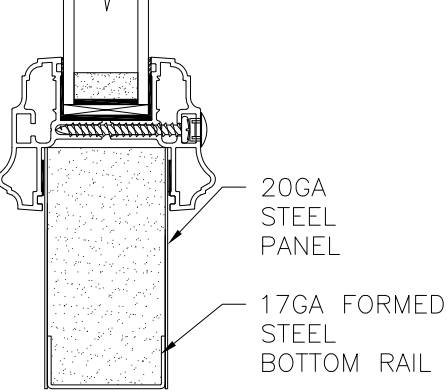
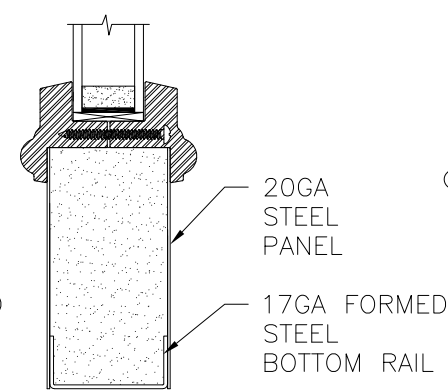
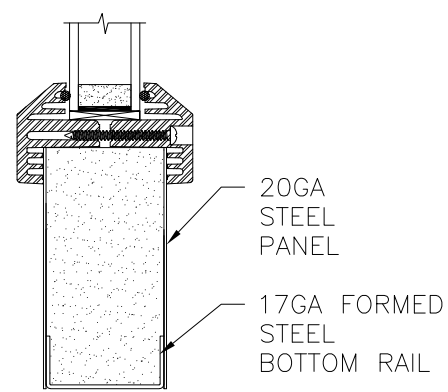
OPTION 13
RSL TRIM



OPTION 14
STANDARD TRIM



OPTION 18
PLUGLESS TRIM
W/TAPE



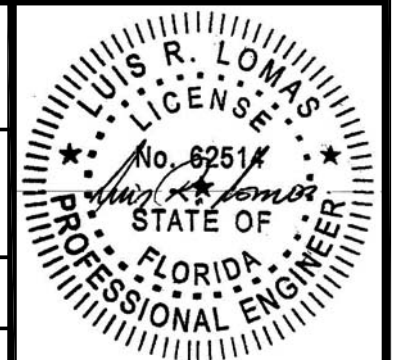
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20GA. STEEL IS PATIO DOOR
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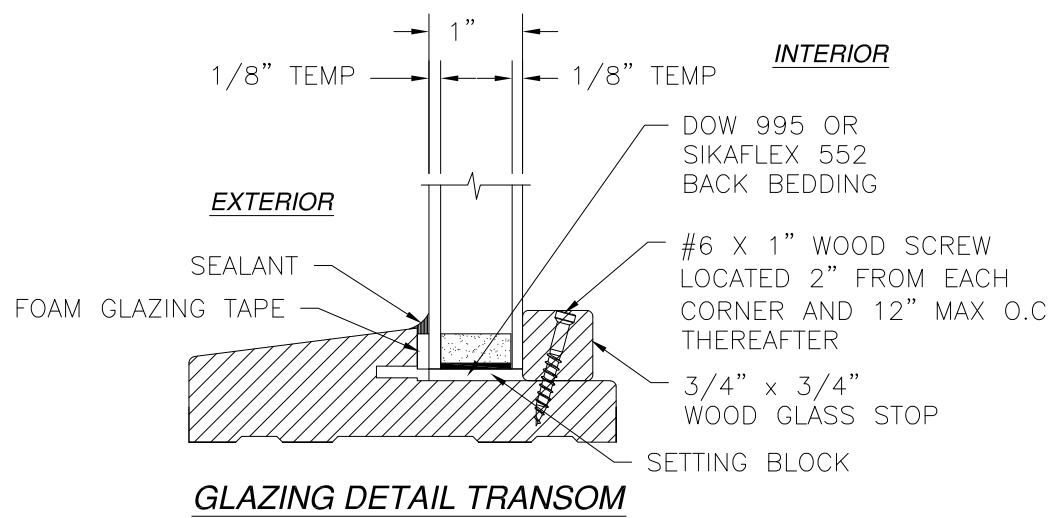
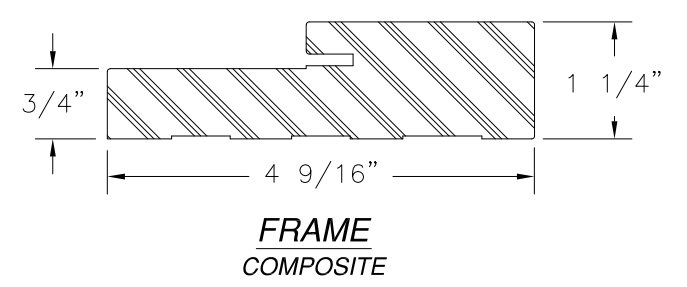
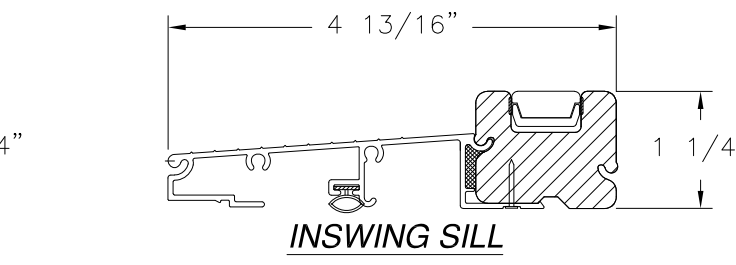
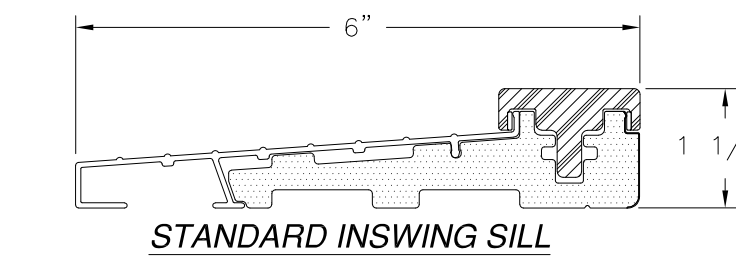
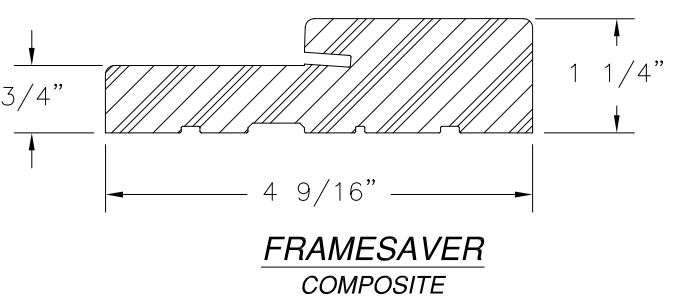
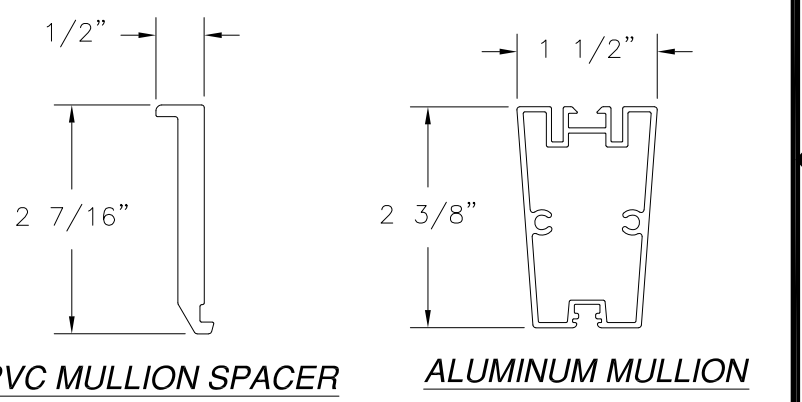
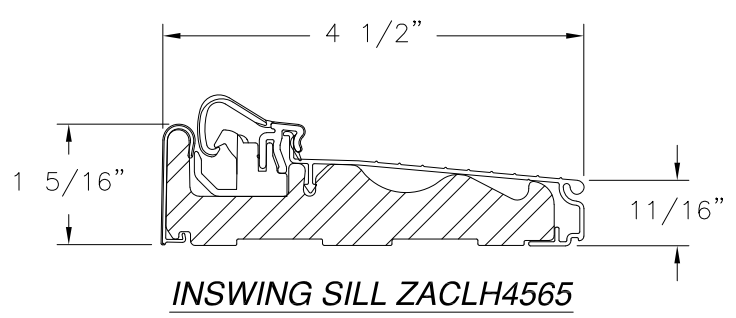
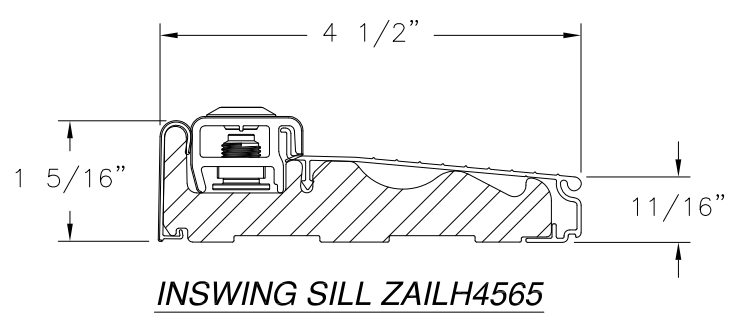
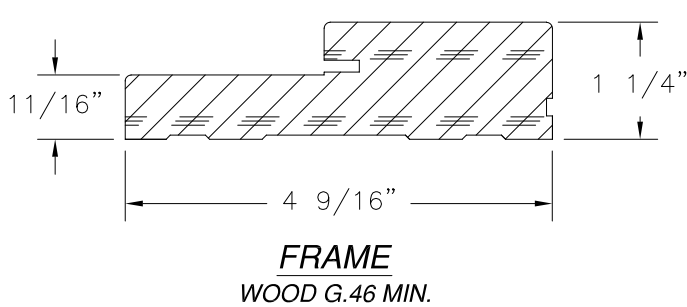
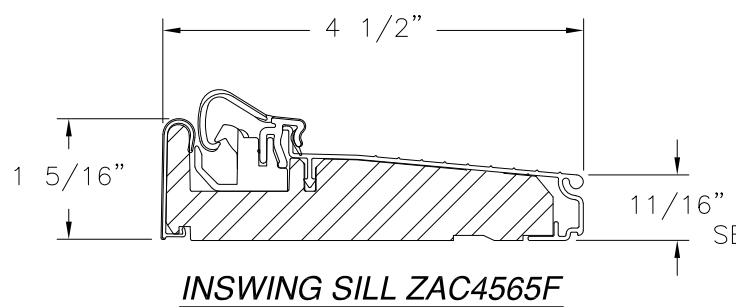
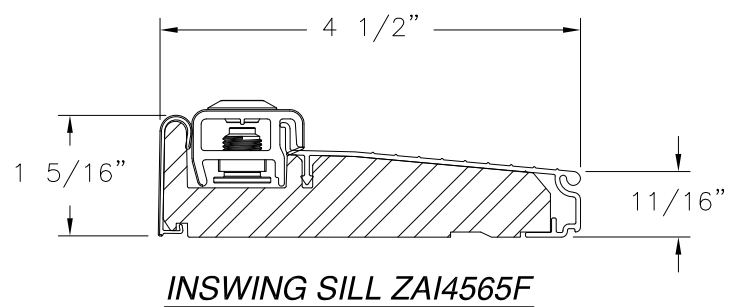
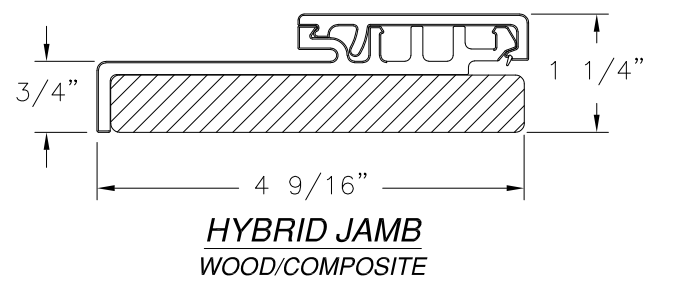
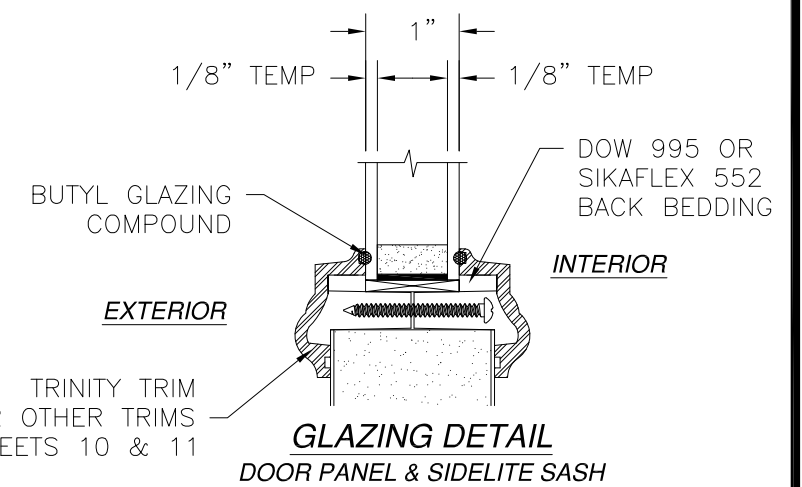
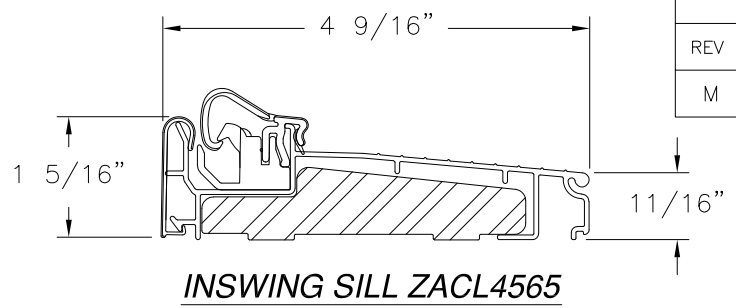
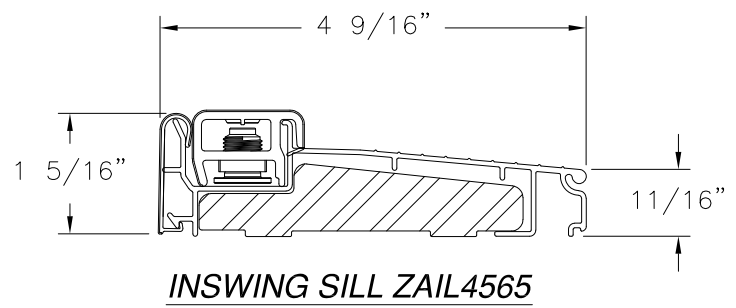
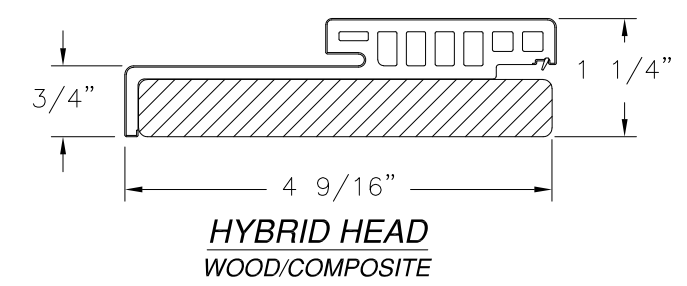
DRAWN: TJH	DWG NO. 08-00709	REV M
SCALE NTS	DATE 03/17/09	SHEET 11 OF 12

L. ROBERTO LOMAS P.E.
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Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
M	ADDED COMPOSITE FRAME	09/08/2021	R.L.



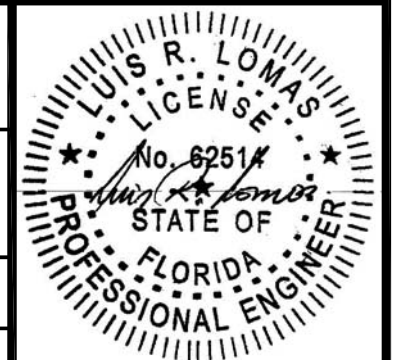
PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

20GA. STEEL IS PATIO DOOR
W/ OR WITHOUT SIDELITES AND TRANSOM
COMPONENTS

DRAWN: TJH	DWG NO. 08-00709	REV M
SCALE NTS	DATE 03/17/09	SHEET 12 OF 12

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