

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISE TRIMS AND HARDWARE SCHEDULE	11/20/2023	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD AND METAL FRAMING 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. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1–1/2” UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER’S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
4. WHERE WOOD BUCK THICKNESS IS 1–1/2” OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER’S PUBLISHED INSTALLATION INSTRUCTIONS.
5. 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.
6. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16” OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4”.
8. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
9. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
10. FRAME MATERIAL: WOOD G=.46 MINIMUM SPECIFIC GRAVITY, COMPOSITE OR FRAMESAVER.
11. UNITS MUST BE GLAZED PER ASTM E1300, WITH SAFETY GLAZING.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 3/16” TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1 1/8” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING THROUGH FRAME 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.
16. ALL FASTENERS TO BE CORROSION RESISTANT.
17. 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:

17.1. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42

17.2. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.

17.3. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.

17.4. METAL STRUCTURE: STEEL 18GA (.048”) FY=33KSI/FU=52KSI OR ALUMINUM 6063–T5 FU=30KSI 1/8” THICK MINIMUM
19. APPROVED CONFIGURATIONS: X, OX, XO, XX, OXO, XOO, OOX.

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8	COMPONENTS

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

20 GAUGE STEEL PATIO DOOR
NON-IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08-03784

REV
A

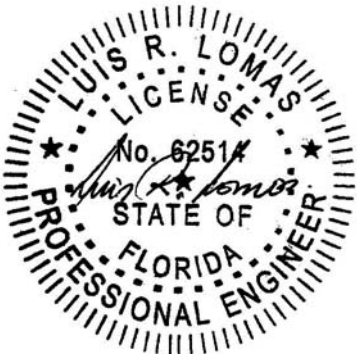
SCALE NTS

DATE 08/05/2021

SHEET 1 OF 8

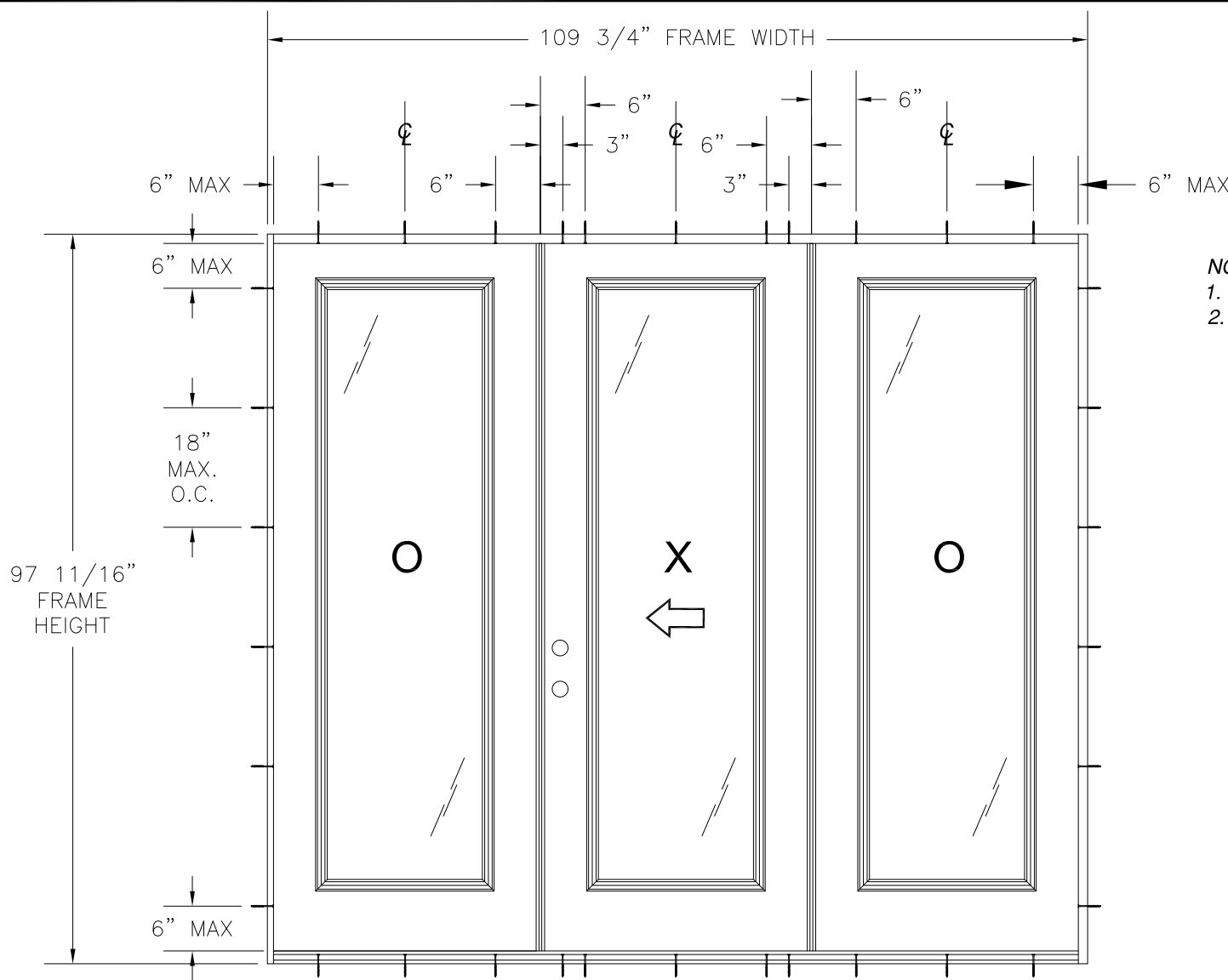
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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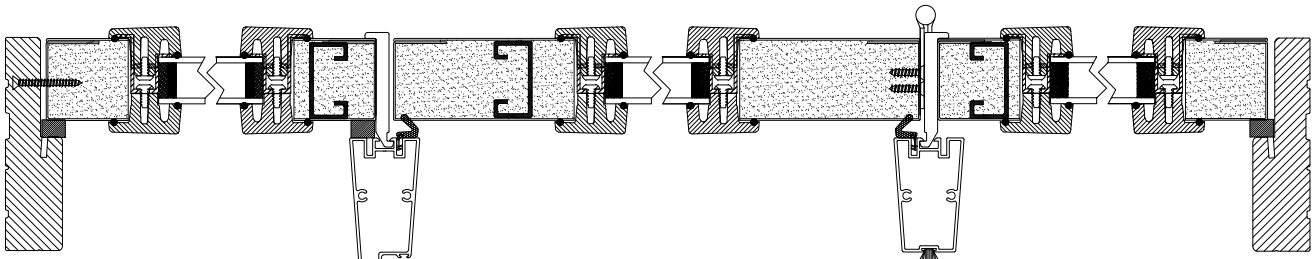


Luis R. Lomas P.E.
FL No.: 62514

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- NOTES:
- PANEL SIZE: 35 3/4" X 94 15/16"
 - D.L.O.: 21 1/8" X 79 1/4"



HORIZONTAL CROSS SECTION

20 GAUGE STEEL PATIO DOOR OXO - IMPACT
EXTERIOR VIEW

WITH SINGLE POINT LOCK

DESIGN PRESSURE RATING	IMPACT RATING
+40.0/-45.0PSF	NONE
THIS SYSTEM WAS NOT TESTED FOR WATER INFILTRATION AND IS TO BE INSTALLED ONLY WHERE WATER RESISTANCE IS NOT REQUIRED	

WITH MULTI-POINT LOCK

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	NONE
THIS SYSTEM WAS NOT TESTED FOR WATER INFILTRATION AND IS TO BE INSTALLED ONLY WHERE WATER RESISTANCE IS NOT REQUIRED	

HARDWARE SCHEDULE

- A. F-SERIES ASSEMBLY DOOR KNOB BY SCHLAGE.
- B. B-SERIES DEADBOLT ASSEMBLY BY SCHLAGE
- C. F-SERIES DEADBOLT ASSEMBLY BY SCHLAGE
- D. EMTEK RESIDENTIAL GRADE DOOR HANDLE ASSEMBLY (ALTERNATE)
- E. TRILLENIUM MULTI-POINT LOCK HANDLE ASSEMBLY (ALTERNATE)
- F. PANOLOCK MULTI-POINT LOCK ASSEMBLY (ALTERNATE)
- G. INSWING HURRICANE ASTRAGAL BY ENDURA
- H. (3) 4" X 4" BALL BEARING HINGES BY PENROD
- I. (3) 4" X 4" SPRING BOMMER HINGES BY PENROD (ALTERNATE)

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20 GAUGE STEEL PATIO DOOR
NON-IMPACT
ELEVATION AND GLAZING DETAILS

DRAWN:
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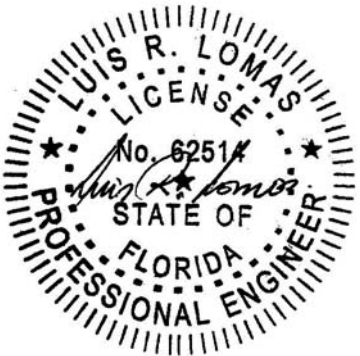
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08/05/2021

SHEET
2 OF 8

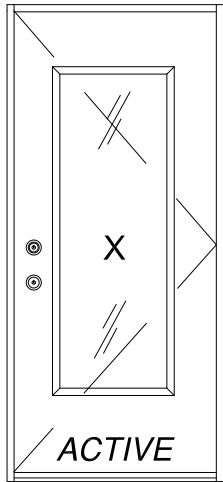
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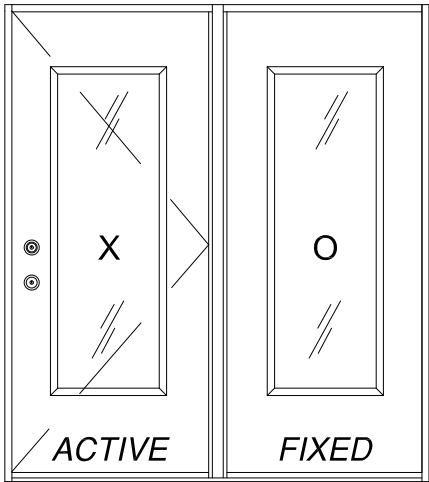
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FL No.: 62514



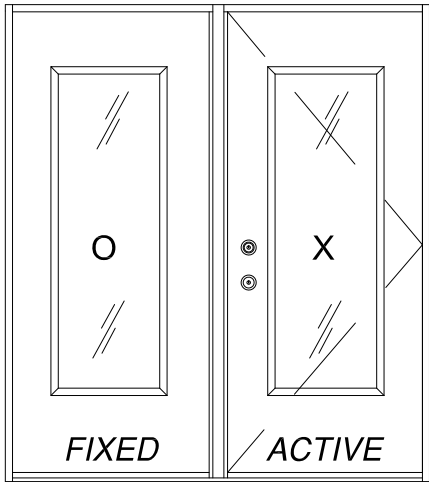
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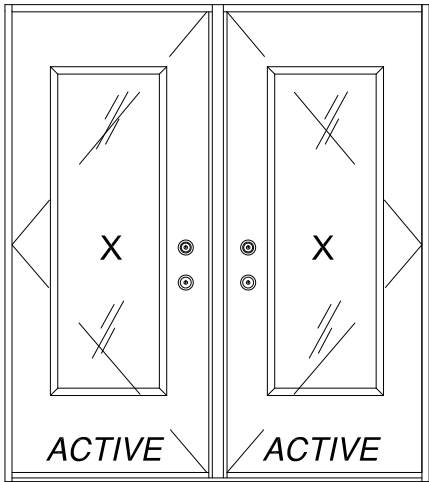
SINGLE
EXTERIOR VIEW



SINGLE W/SIDELITE
EXTERIOR VIEW

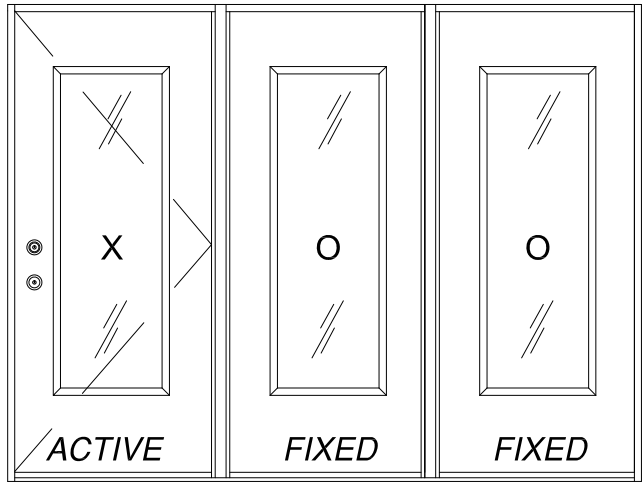


SINGLE W/SIDELITE
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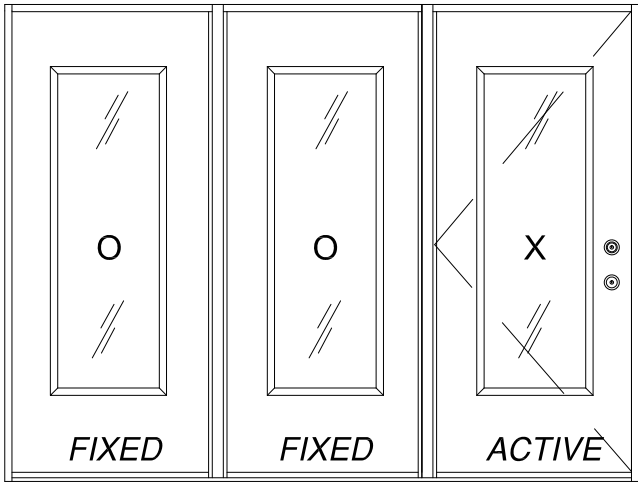


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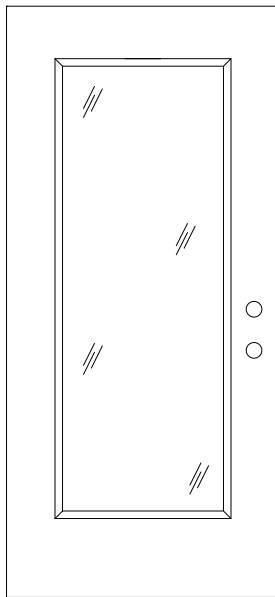
APPROVED LITE CONFIGURATIONS



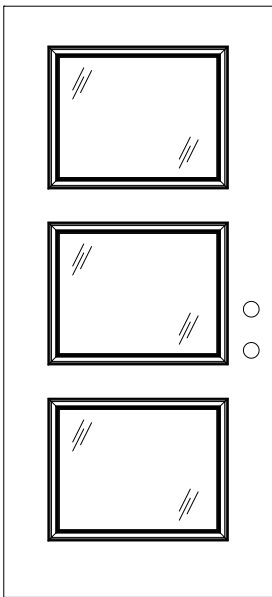
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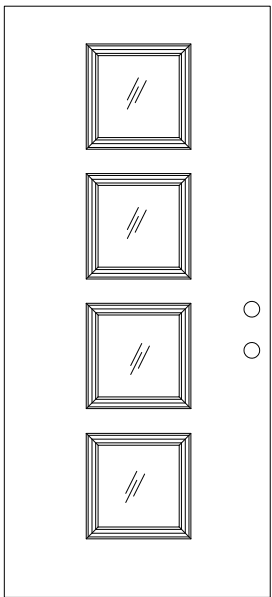
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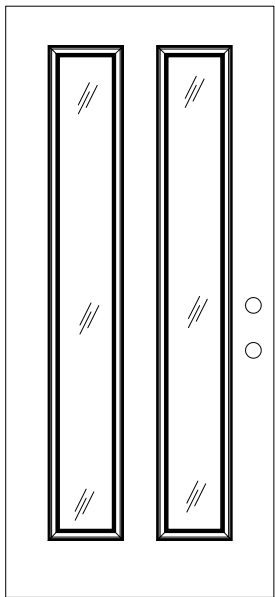
FULL LITE



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 11.62 FT²



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PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OHIO 44681		
20 GAUGE STEEL PATIO DOOR NON-IMPACT APPROVED CONFIGURATIONS		
DRAWN: A.R.	DWG NO. 08-03784	REV A
SCALE NTS	DATE 08/05/2021	SHEET 3 OF 8
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

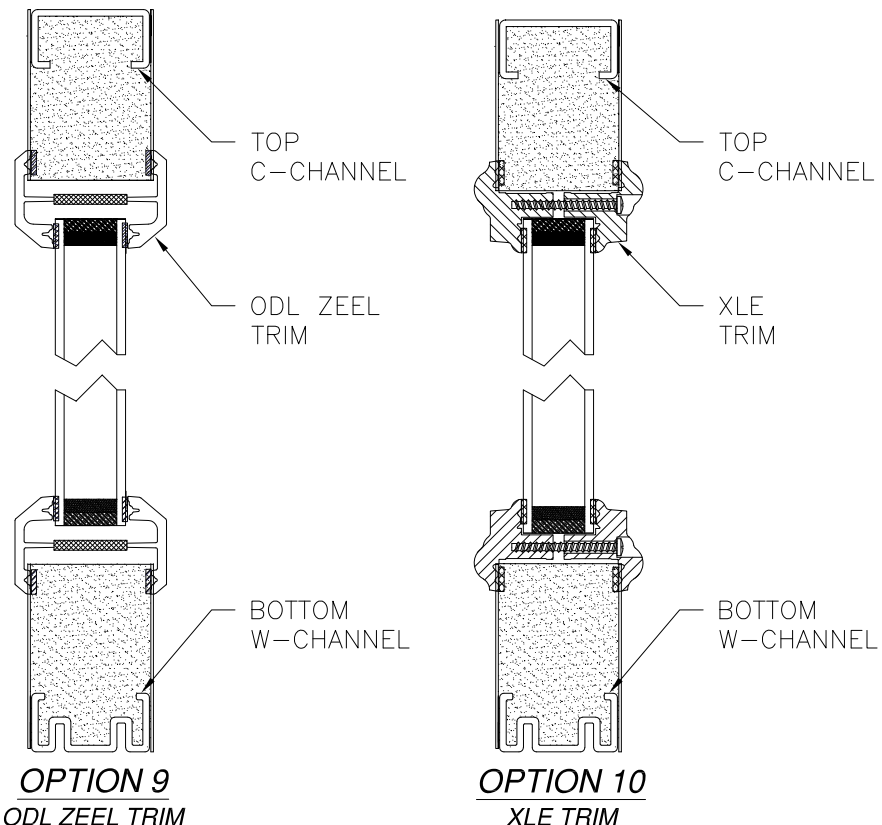
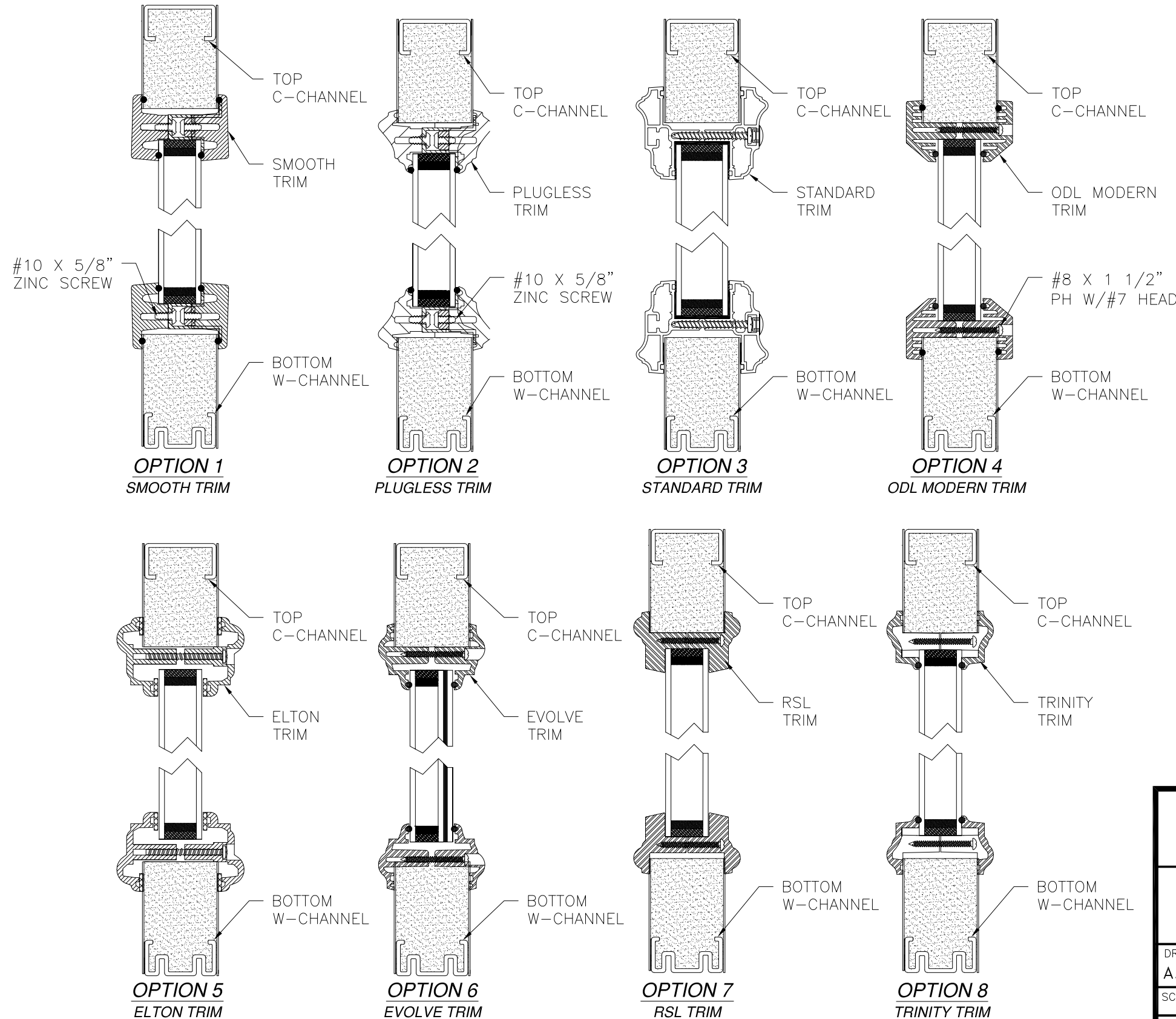


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APPROVED SLABS AND TRIMS

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APPROVED SLABS AND TRIMS

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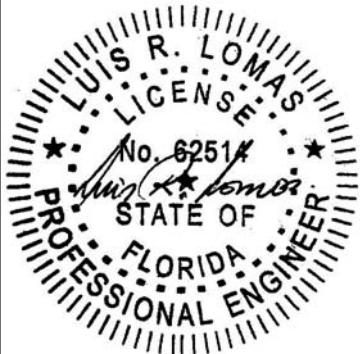
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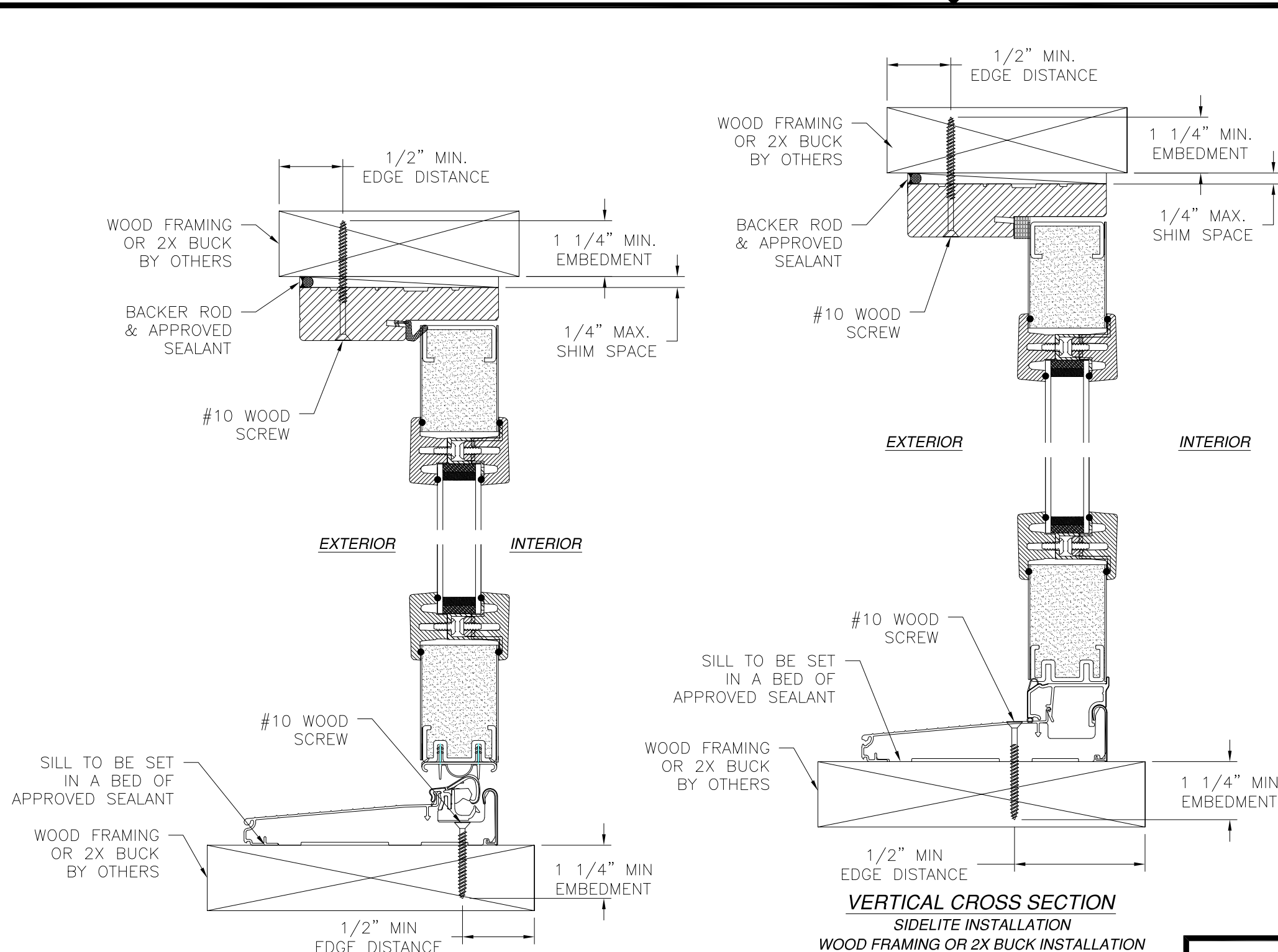
DATE
08/05/2021

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4 OF 8

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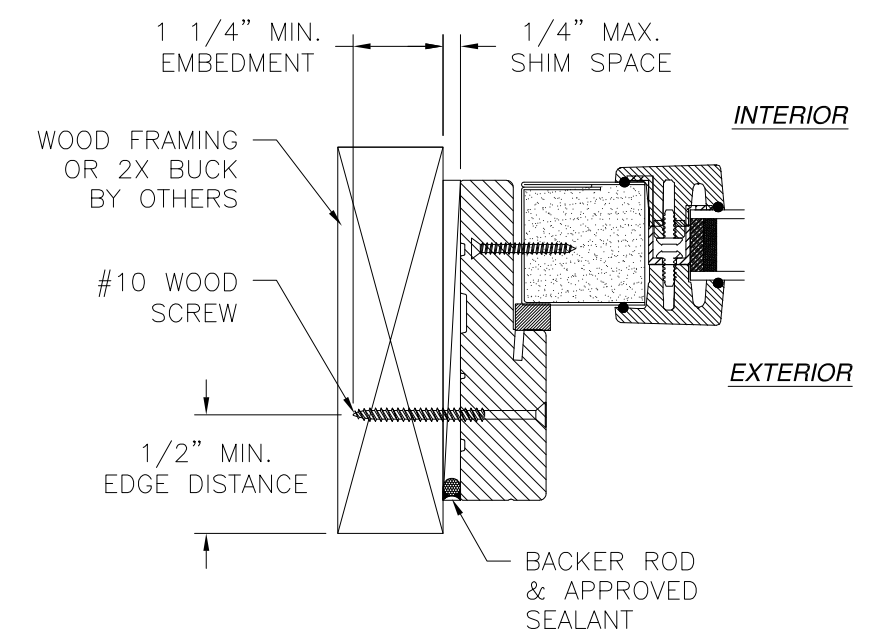
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VERTICAL CROSS SECTION
DOOR INSTALLATION
WOOD FRAMING OR 2X BUCK INSTALLATION

VERTICAL CROSS SECTION
SIDELITE INSTALLATION
WOOD FRAMING OR 2X BUCK INSTALLATION

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JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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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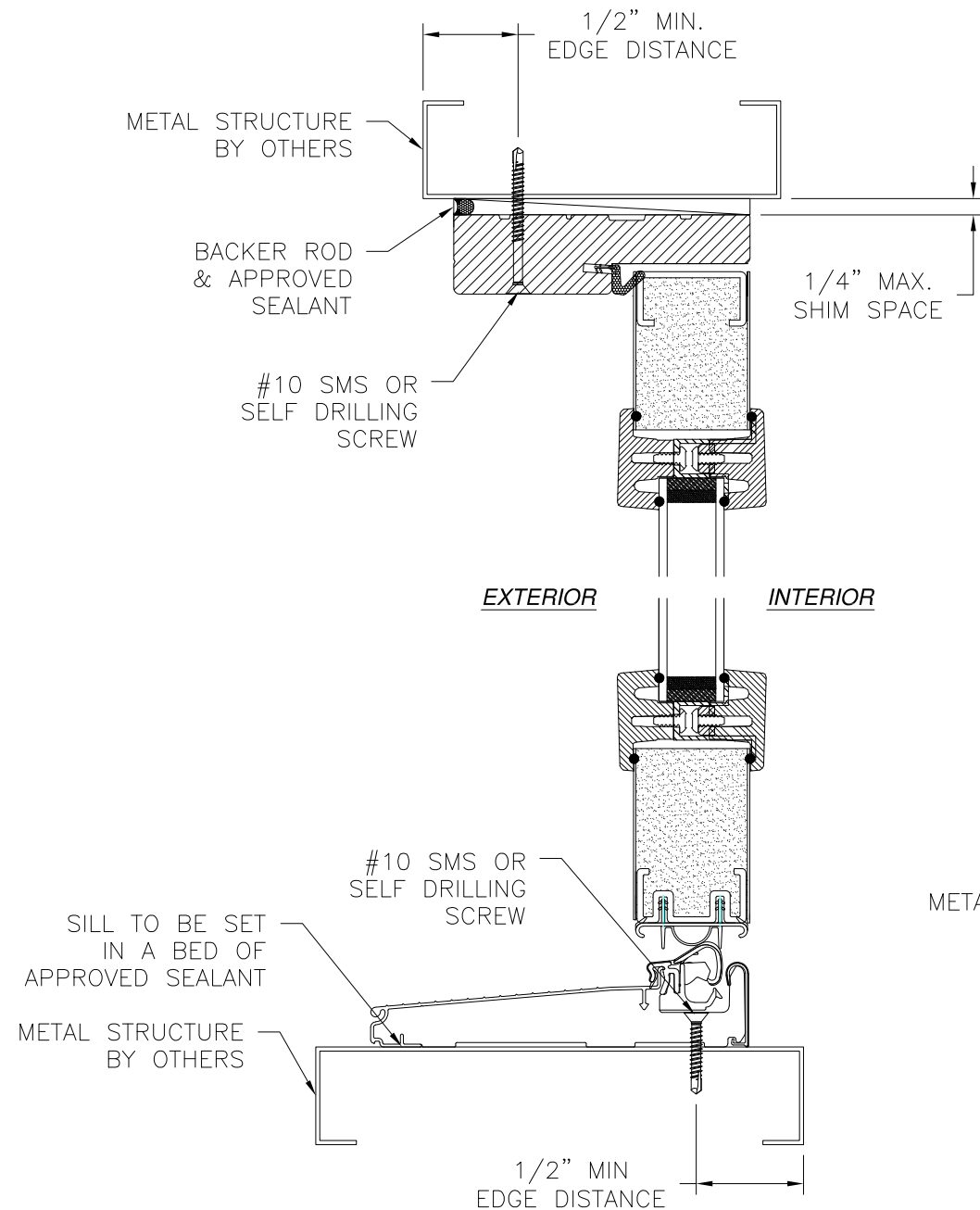
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SCALE NTS	DATE 08/05/2021	SHEET 5 OF 8

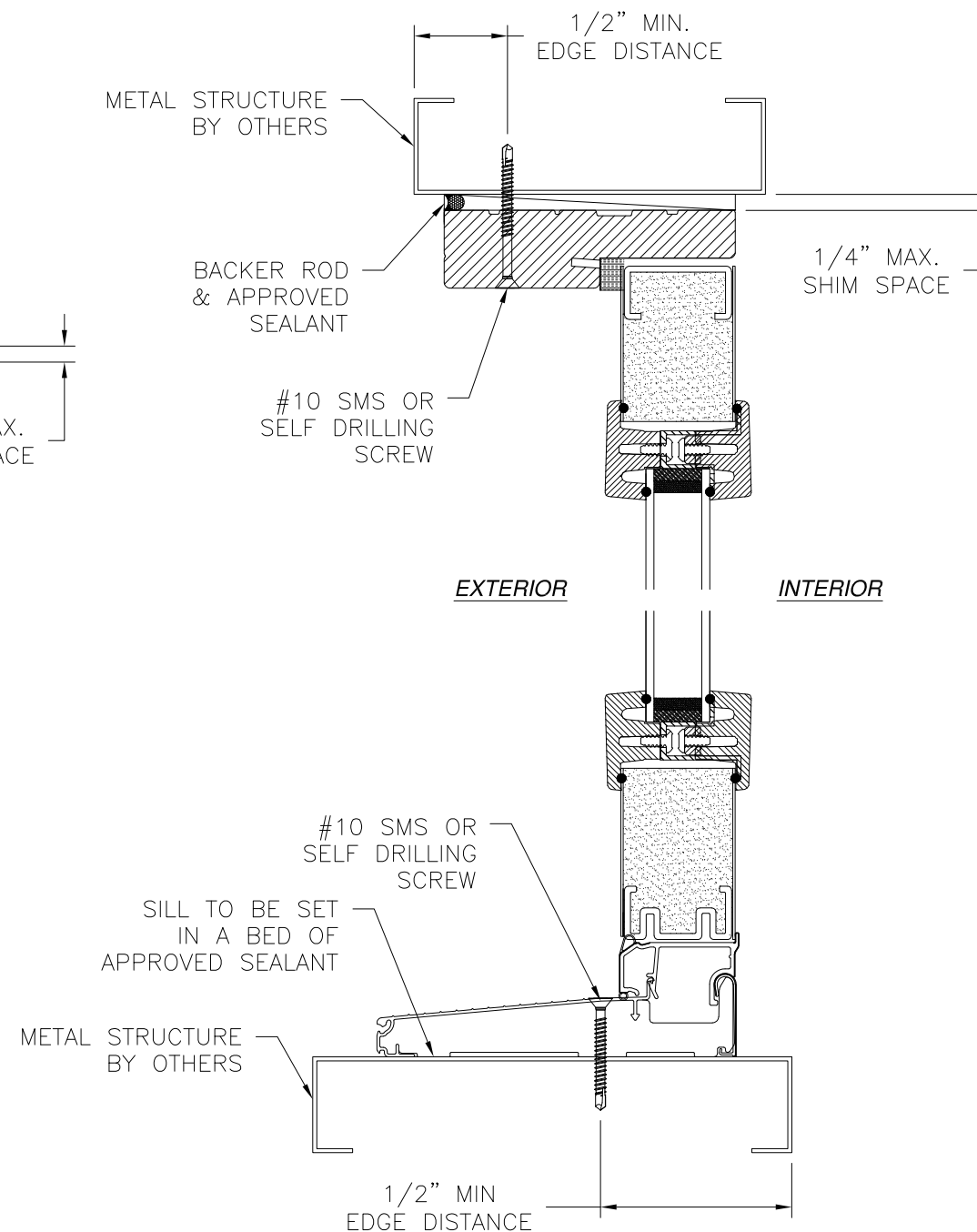
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LICENSED PROFESSIONAL ENGINEER
No. 62514
STATE OF FLORIDA

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

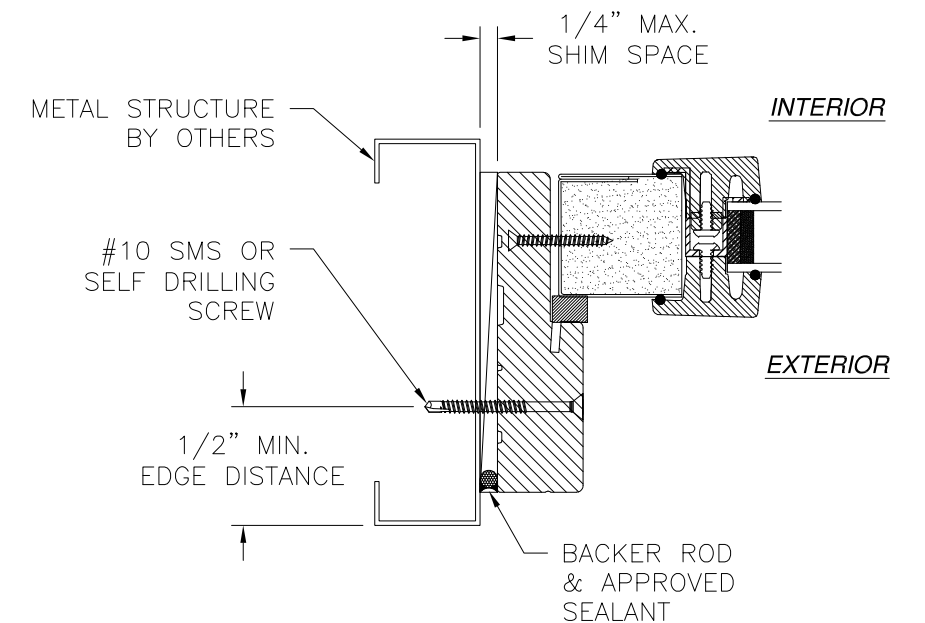


VERTICAL CROSS SECTION
DOOR INSTALLATION
METAL STRUCTURE INSTALLATION



VERTICAL CROSS SECTION
SIDELITE INSTALLATION
METAL STRUCTURE INSTALLATION

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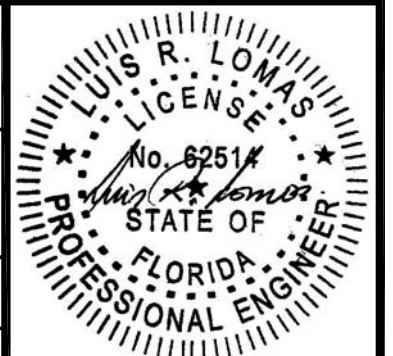
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

NOTES:

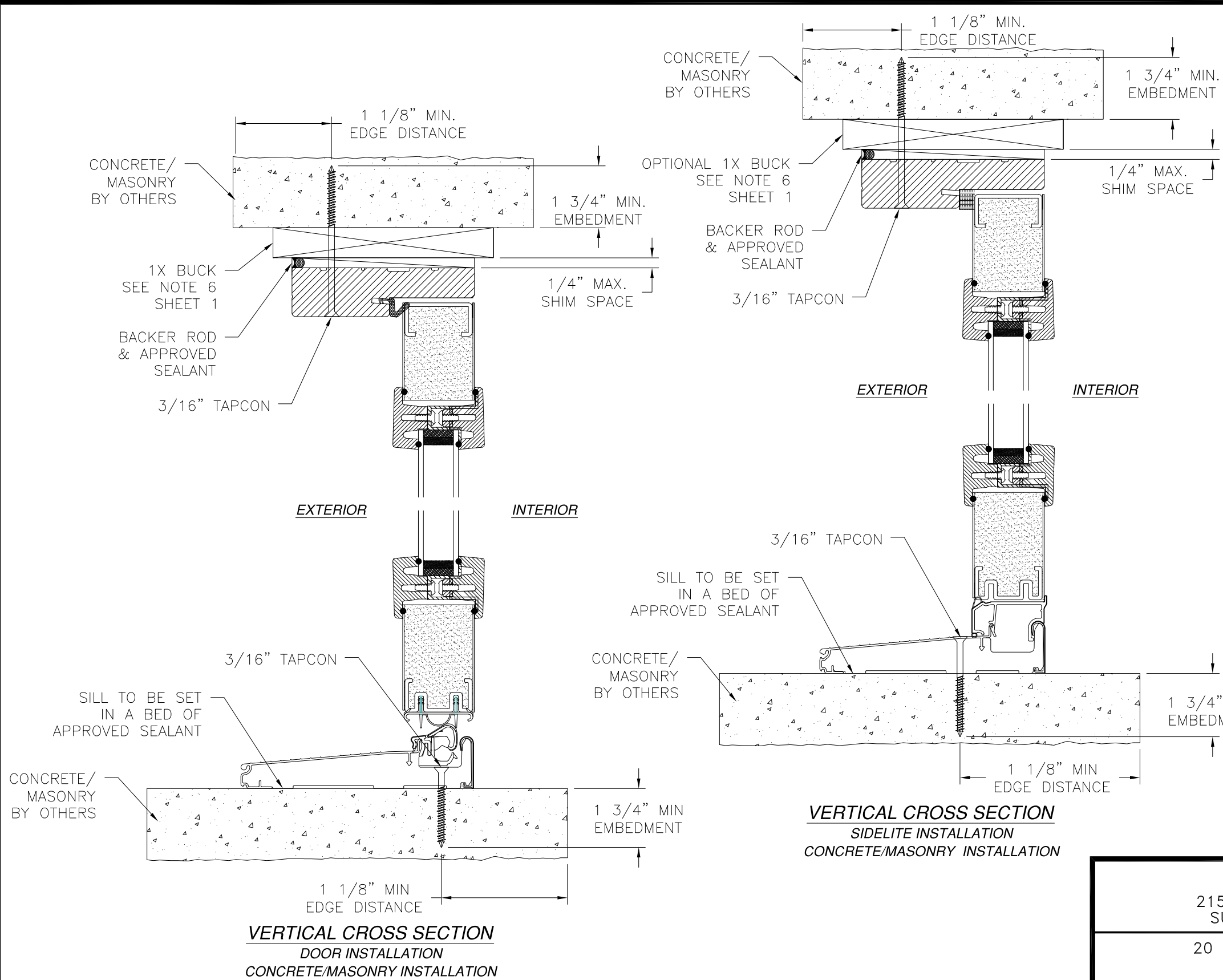
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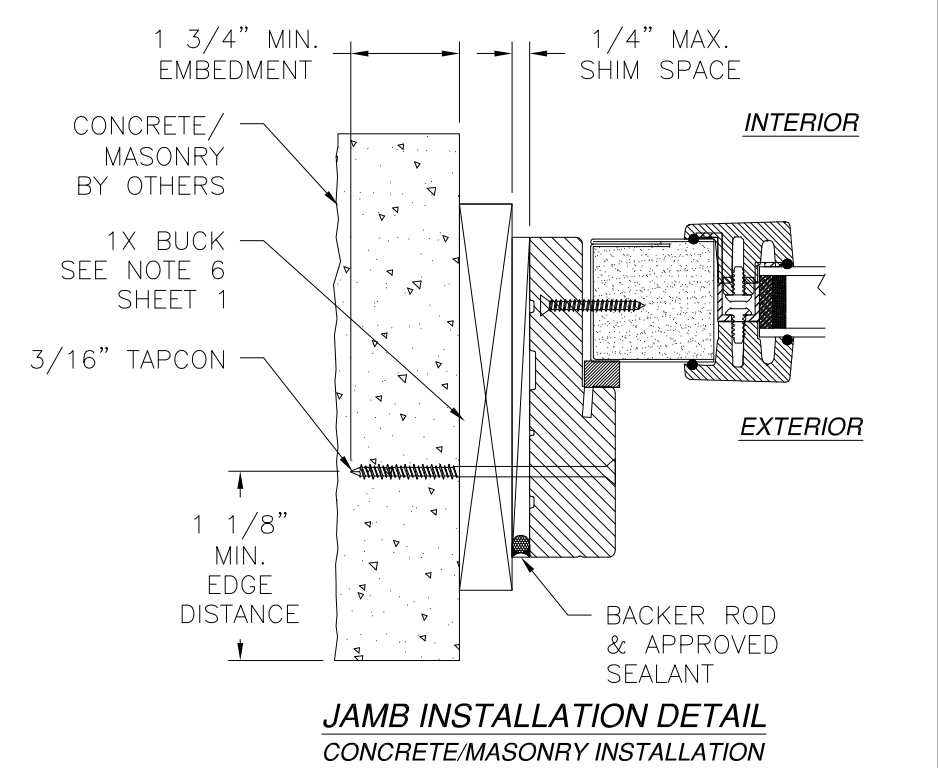
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OHIO 44681		
20 GAUGE STEEL PATIO DOOR NON-IMPACT INSTALLATION DETAILS		
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SCALE NTS	DATE 08/05/2021	SHEET 6 OF 8
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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2150 STATE ROUTE 39 WEST
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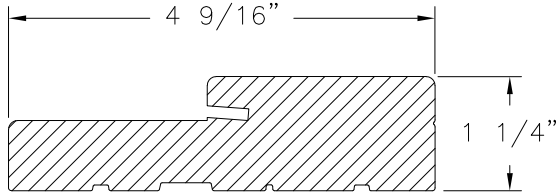
SHEET
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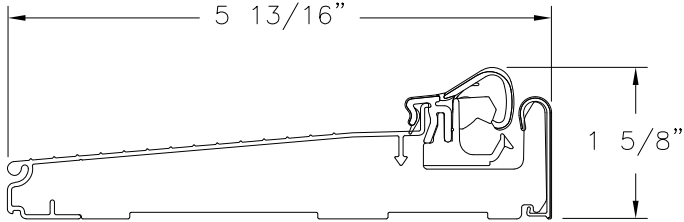
LUIS R. LOMAS
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STATE OF FLORIDA

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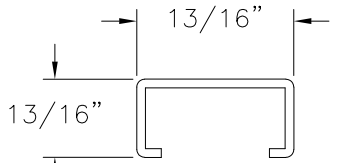
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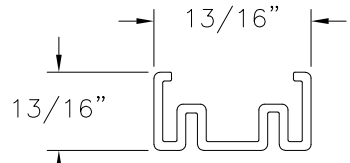
FRAMESAVER
COMPOSITE



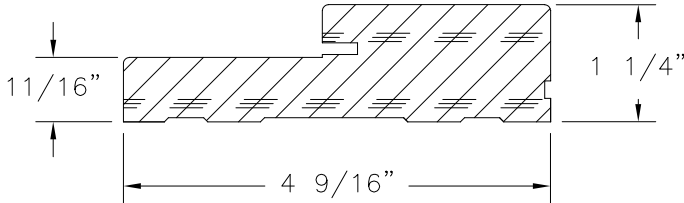
**ZAC THRESHOLD W/
ARTICULATING CAP**



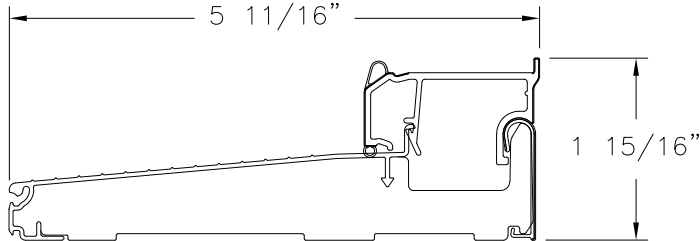
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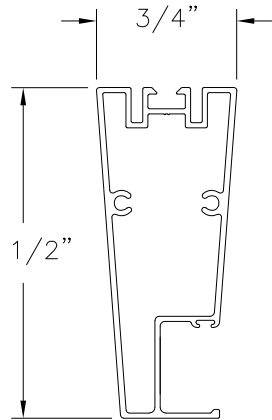
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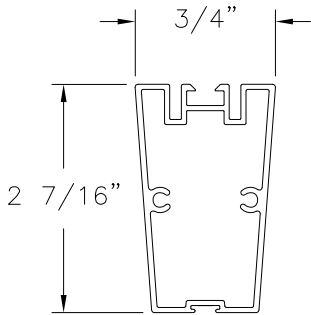
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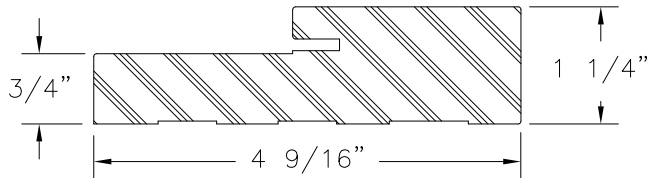
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I/S SIDELITE SILL CAP**



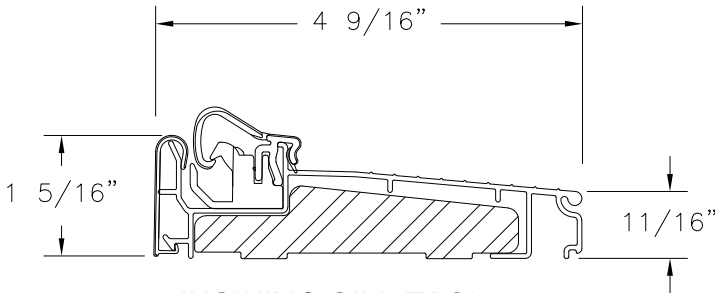
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ALUMINUM



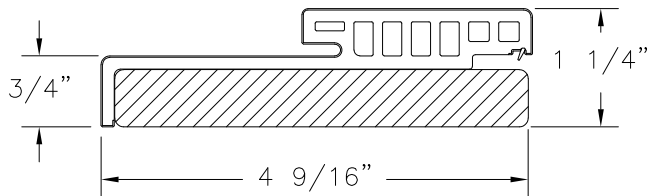
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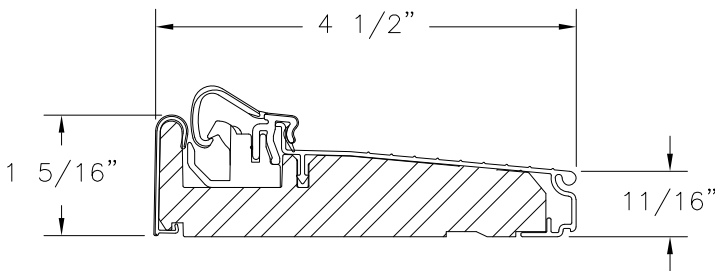
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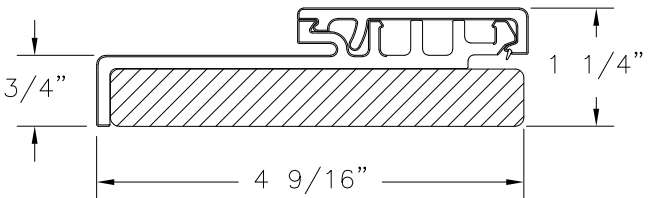
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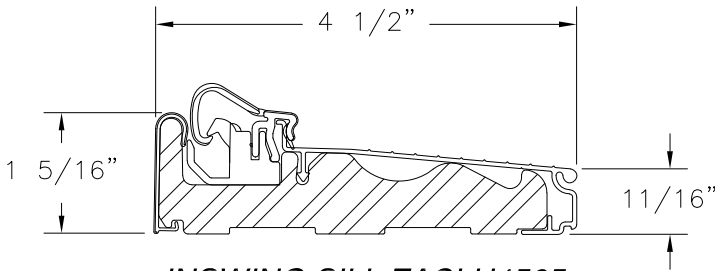
HYBRID HEAD
WOOD/COMPOSITE



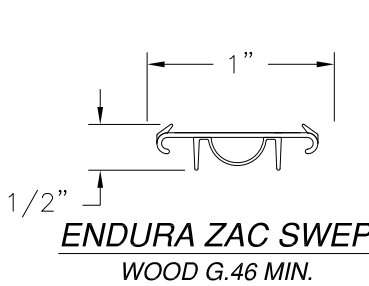
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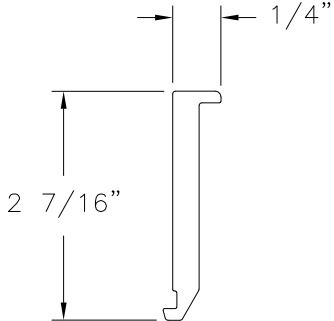
HYBRID JAMB
WOOD/COMPOSITE



INSWING SILL ZACLH4565



ENDURA ZAC SWEF
WOOD G.46 MIN.



MULLION SPACER
PVC

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