

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED HARDWARE SCHEDULE	09/14/26	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
B

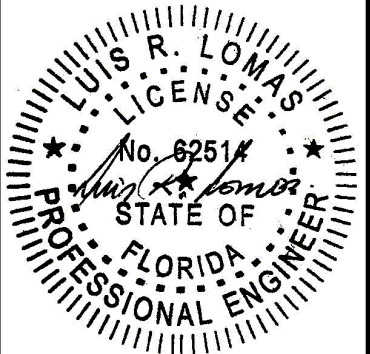
SCALE NTS

DATE 08/05/2021

SHEET 1 OF 8

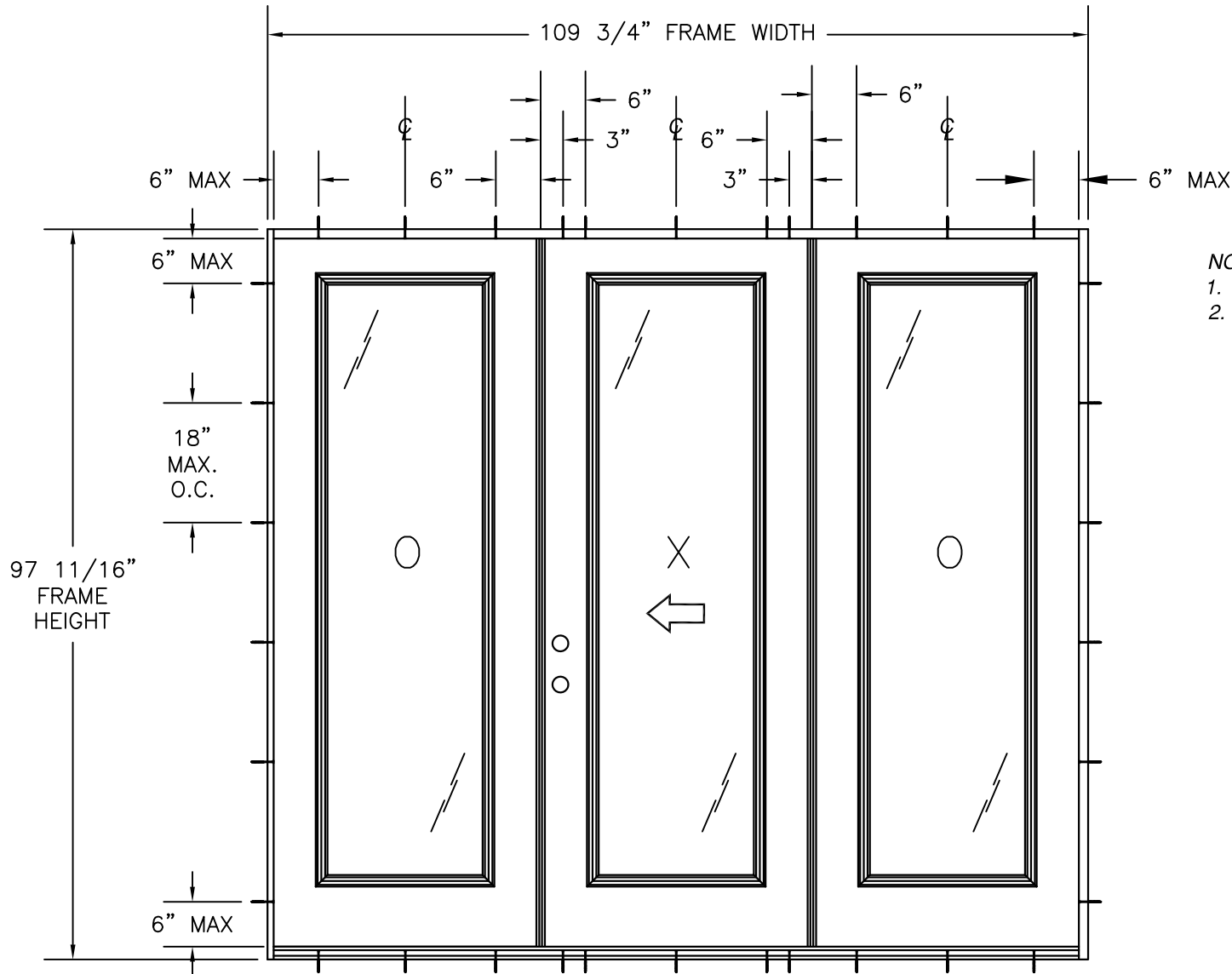
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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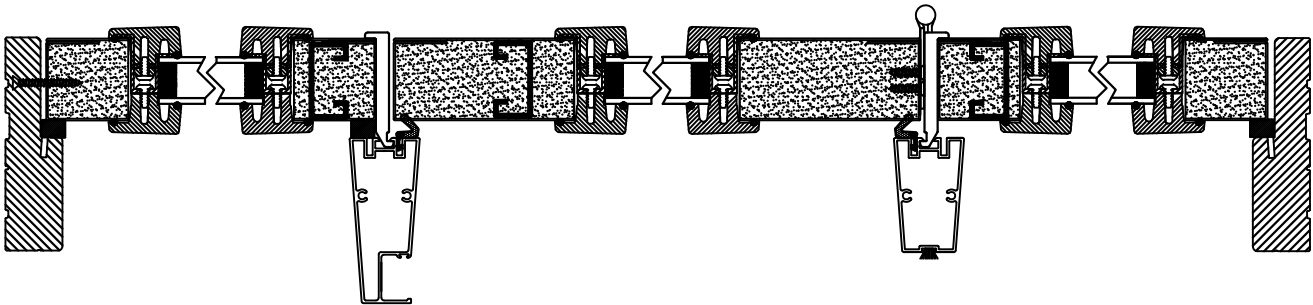


Luis R. Lomas P.E.
FL No.: 62514

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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	

Anchors and anchor connectors corrosion resistance chart

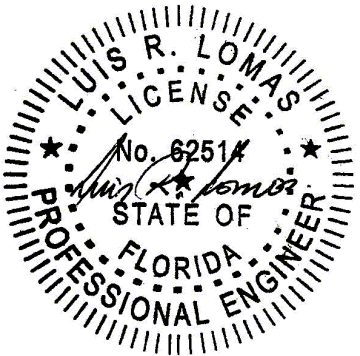
Exposure	Distance from coastal shoreline	
	0' up to 300'	>300' up to 3000'
Exterior - partially sheltered	304 or A305 or 306 Stainless steel per ASTM A240	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Exterior - open exposed	304 or A305 or 306 Stainless steel per ASTM A240	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Unconditioned interior-vented enclosed	Galvanized per ASTM A153 class D or ASTM A641 class 3S	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Unconditioned interior-unvented enclosed	Galvanized per ASTM A153 class D or ASTM A641 class 3S	Galvanized per ASTM A153 class D or ASTM A641 class 3S

HARDWARE SCHEDULE

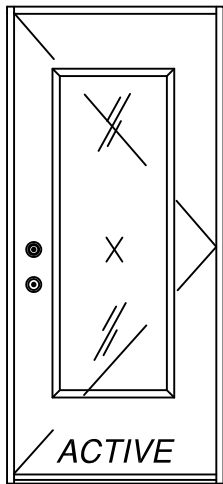
A.	F-SERIES & FC-SERIES LOCK ASSEMBLY DOOR KNOB BY SCHLAGE
B.	B-SERIES DEADBOLT ASSEMBLY BY SCHLAGE
C.	F-SERIES & FC-SERIES DEADBOLT ASSEMBLY BY SCHAGE
D.	RESIDENTIAL GRADE DOOR HANDLE ASSEMBLY BY EMTEK (ALTERNATE)
E.	MULTI-POINT HANDLE ASSEMBLY BY TRILENNIUM (ALTERNATE)
F.	PANOLOCK MULTI-POINT LOCK 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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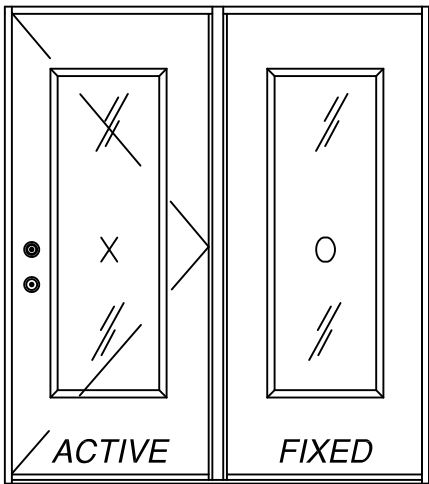
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OHIO 44681		
20 GAUGE STEEL PATIO DOOR NON-IMPACT ELEVATION AND GLAZING DETAILS		
DRAWN: A.R.	DWG NO. 08-03784	REV B
SCALE NTS	DATE 08/05/2021	SHEET 2 OF 8
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



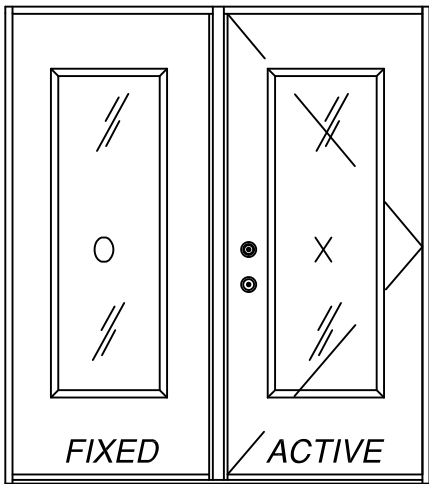
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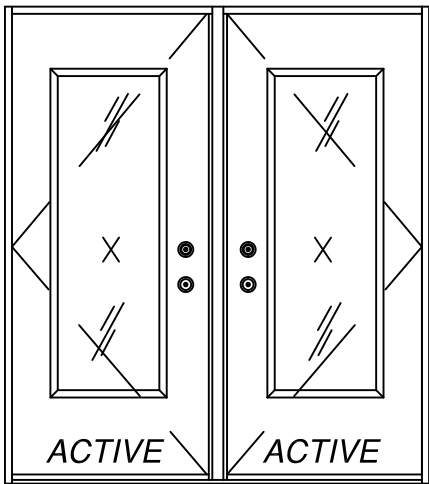
SINGLE
EXTERIOR VIEW



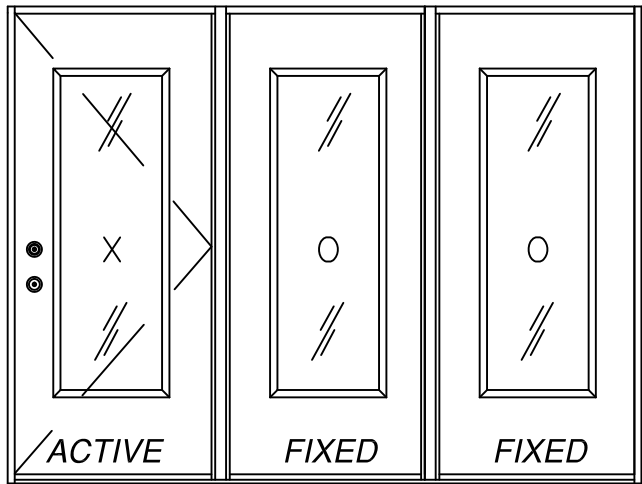
SINGLE W/SIDELITE
EXTERIOR VIEW



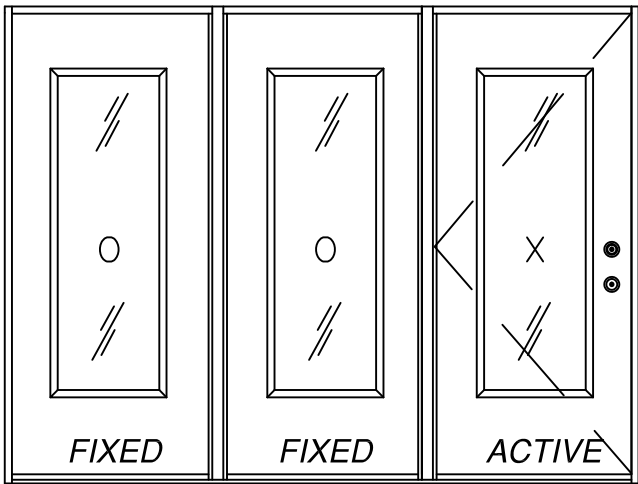
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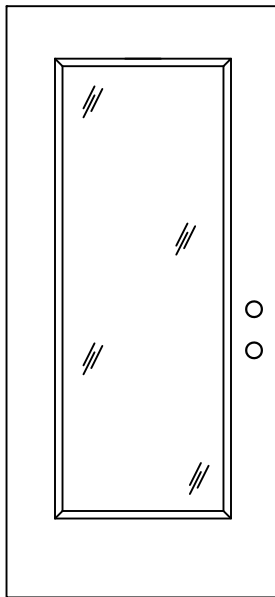
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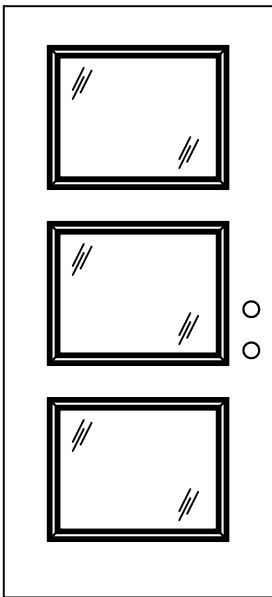
SINGLE W/SIDELITES
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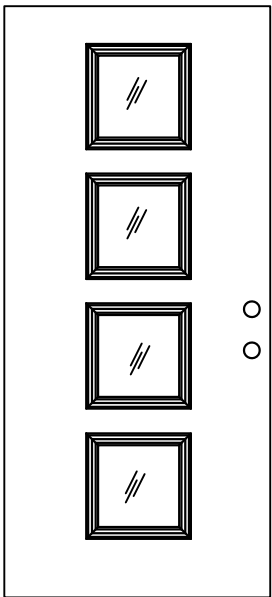
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EXTERIOR VIEW



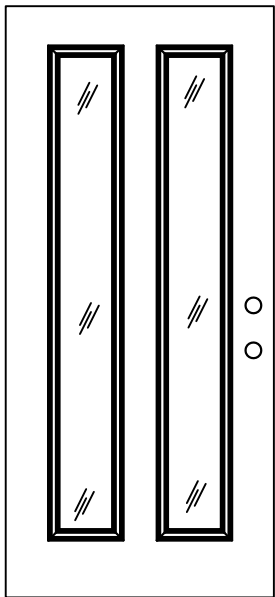
FULL LITE



3 LITE



4 LITE



2 LITE

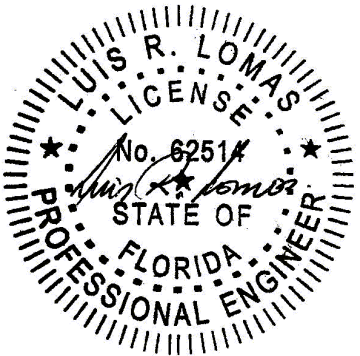
LITE CONFIGURATIONS SHOWN ARE FOR REFERENCE ONLY. MULTIPLE LITE CONFIGURATIONS
ARE APPROVED AS LONG AS LITE SIZE DOES NOT EXCEED 11.62 FT²

APPROVED LITE CONFIGURATIONS

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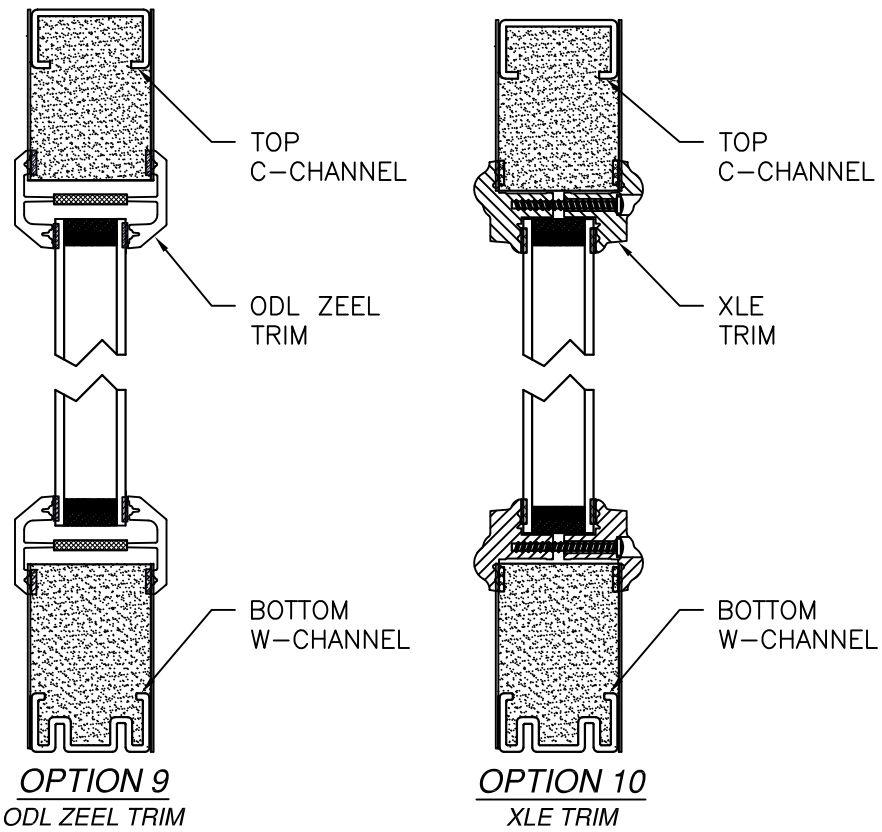
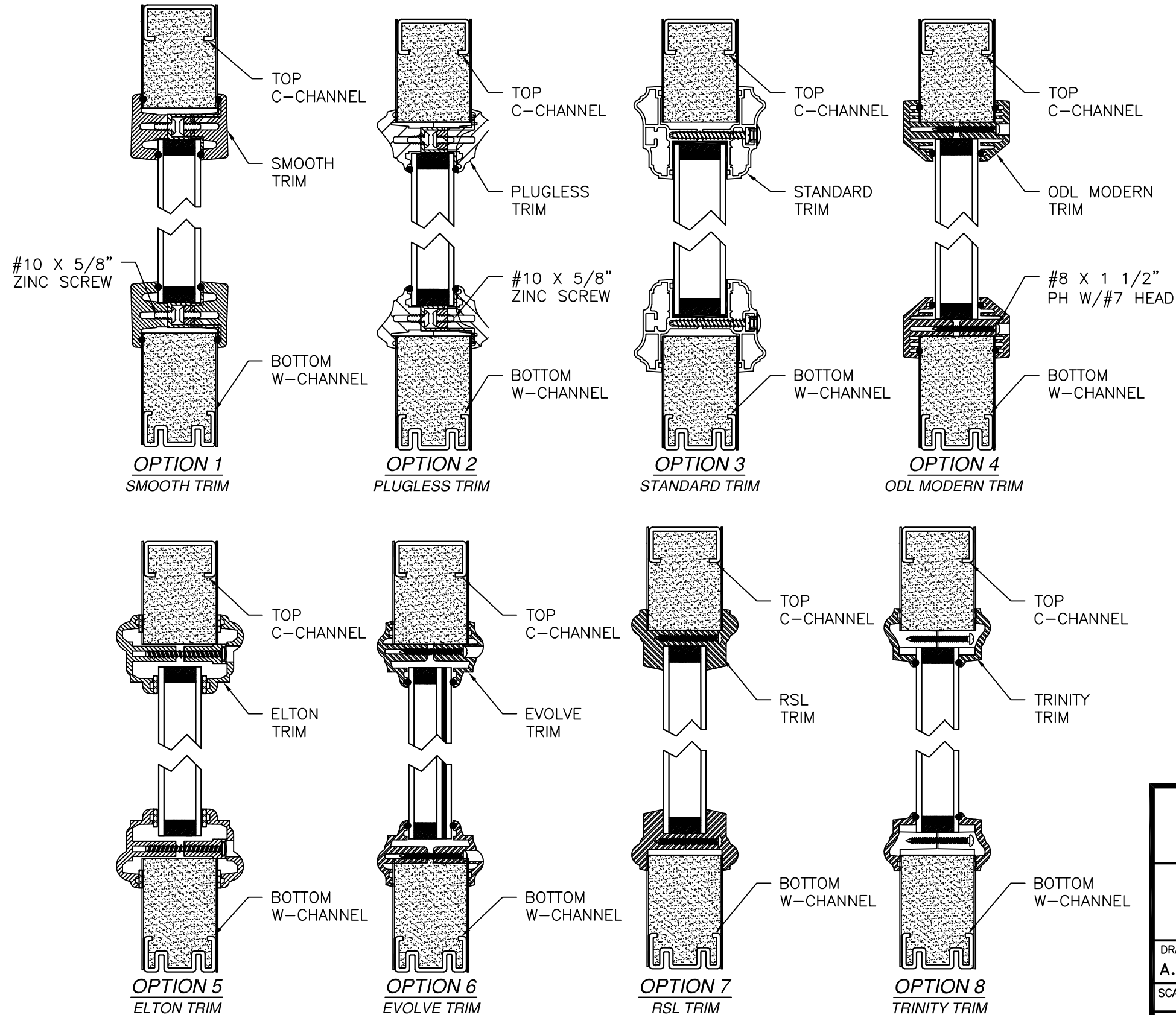
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OHIO 44681		
20 GAUGE STEEL PATIO DOOR NON-IMPACT APPROVED CONFIGURATIONS		
DRAWN: A.R.	DWG NO. 08-03784	REV B
SCALE NTS	DATE 08/05/2021	SHEET 3 OF 8
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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APPROVED SLABS AND TRIMS

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SUGARCREEK, OHIO 44681

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NON-IMPACT
APPROVED SLABS AND TRIMS

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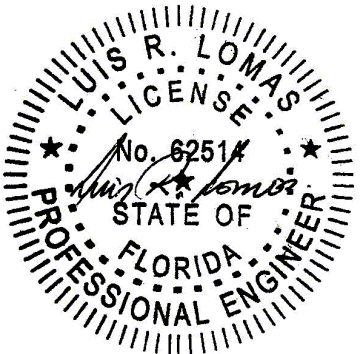
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SCALE
NTS

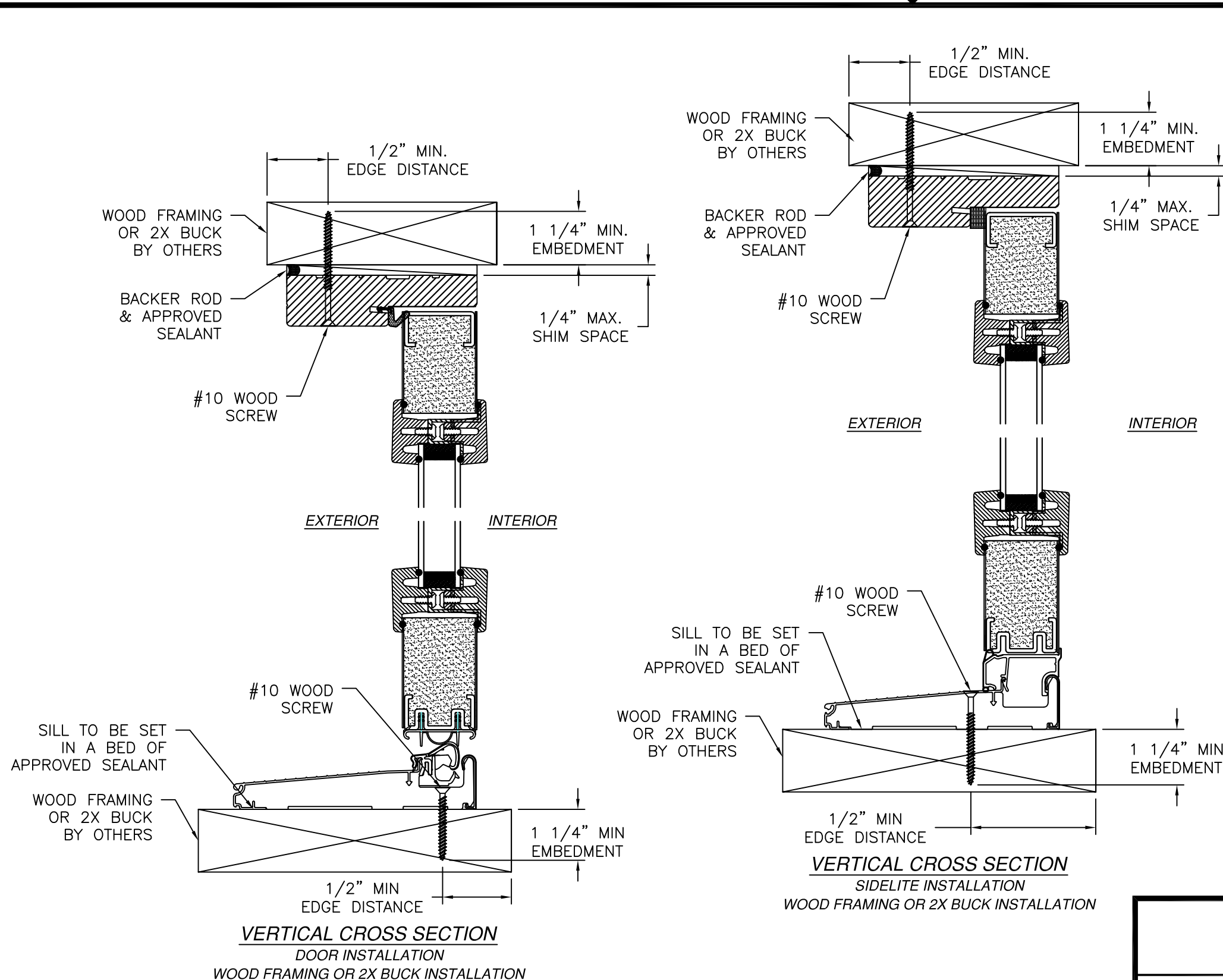
DATE
08/05/2021

SHEET
4 OF 8

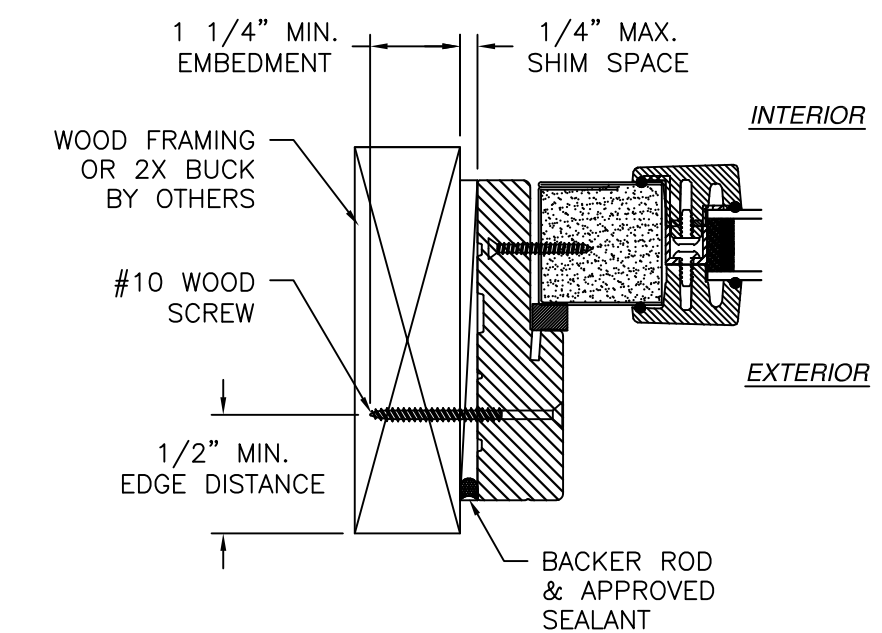
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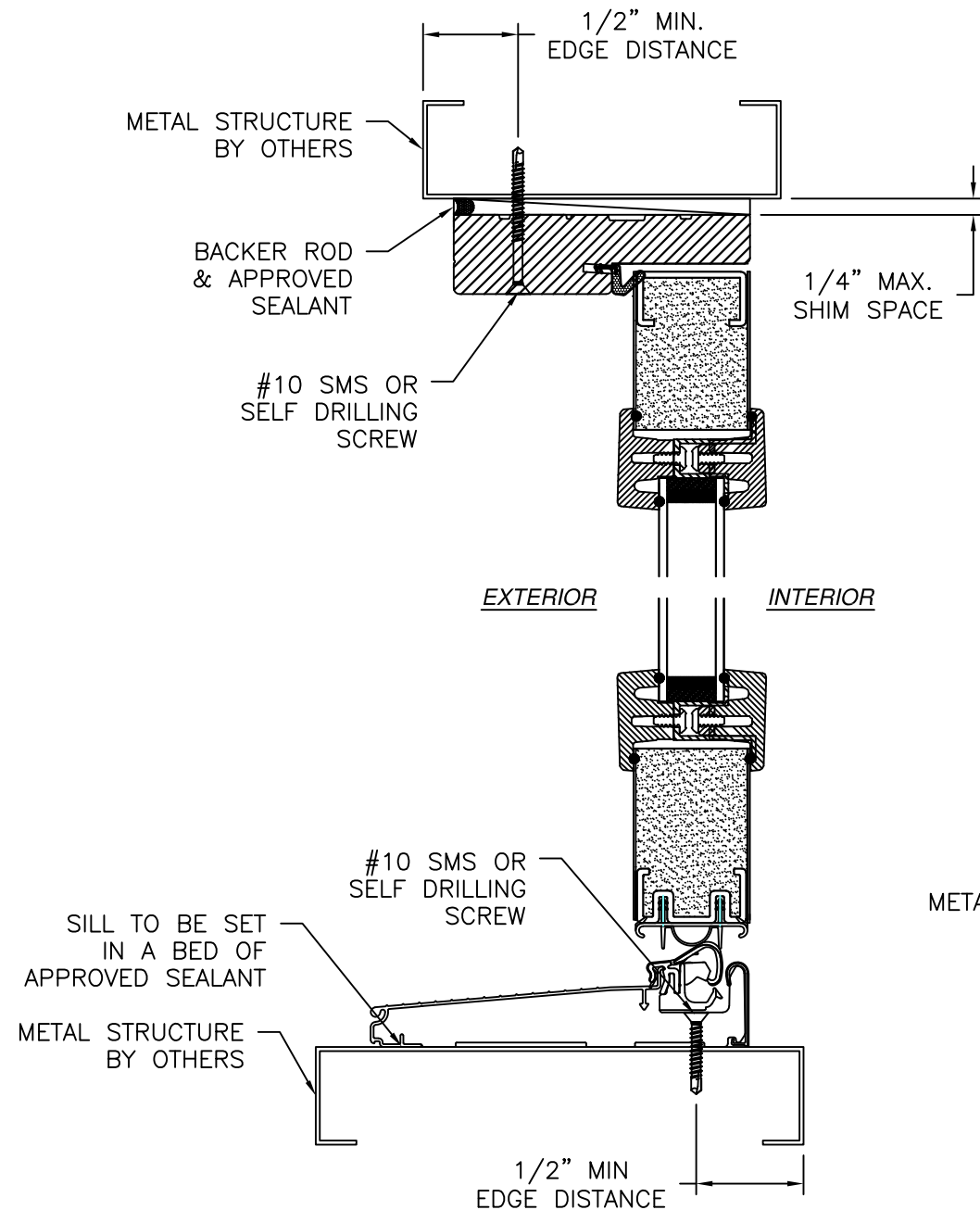
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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

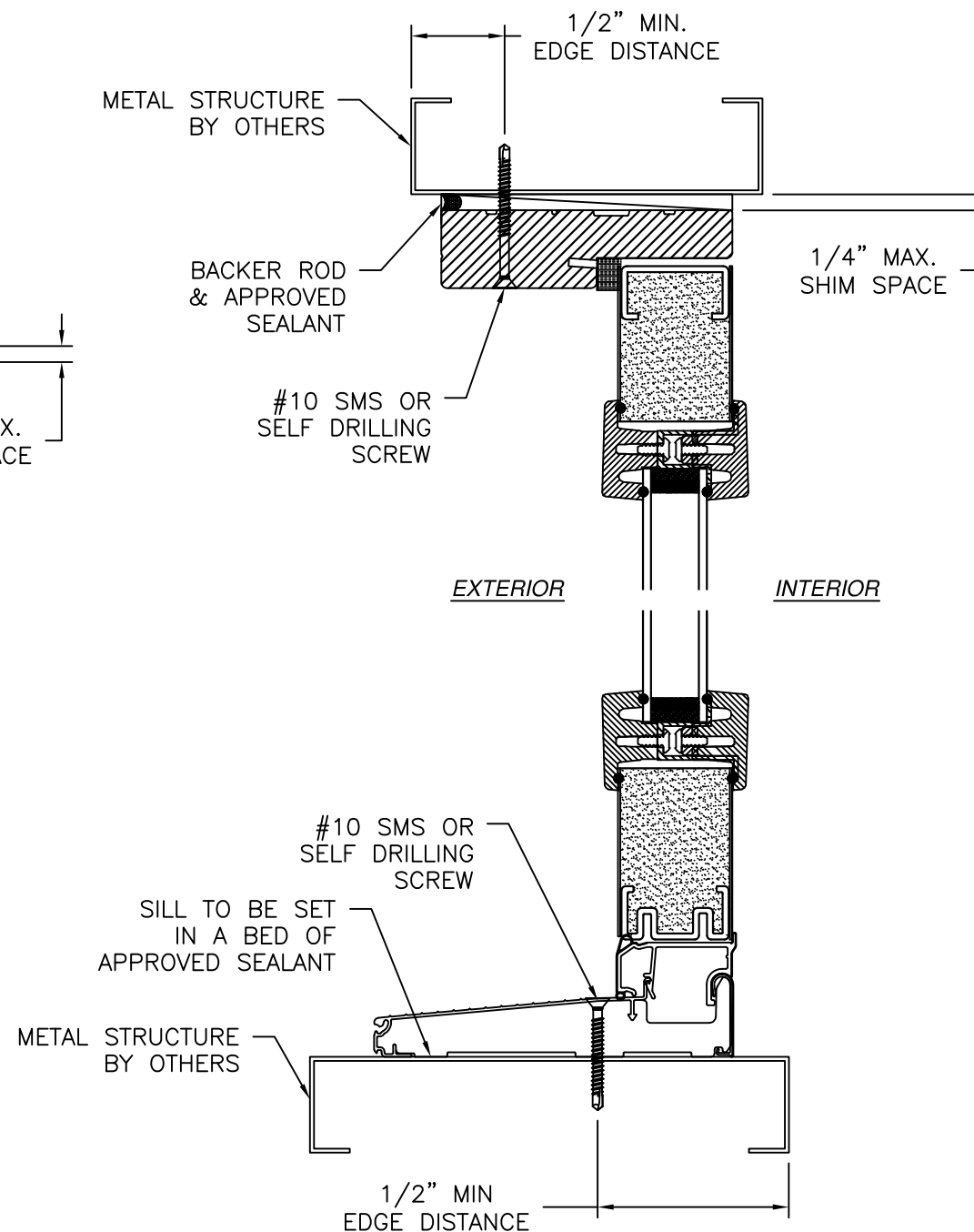
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20 GAUGE STEEL PATIO DOOR NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03784	REV B
SCALE NTS	DATE 08/05/2021	SHEET 5 OF 8
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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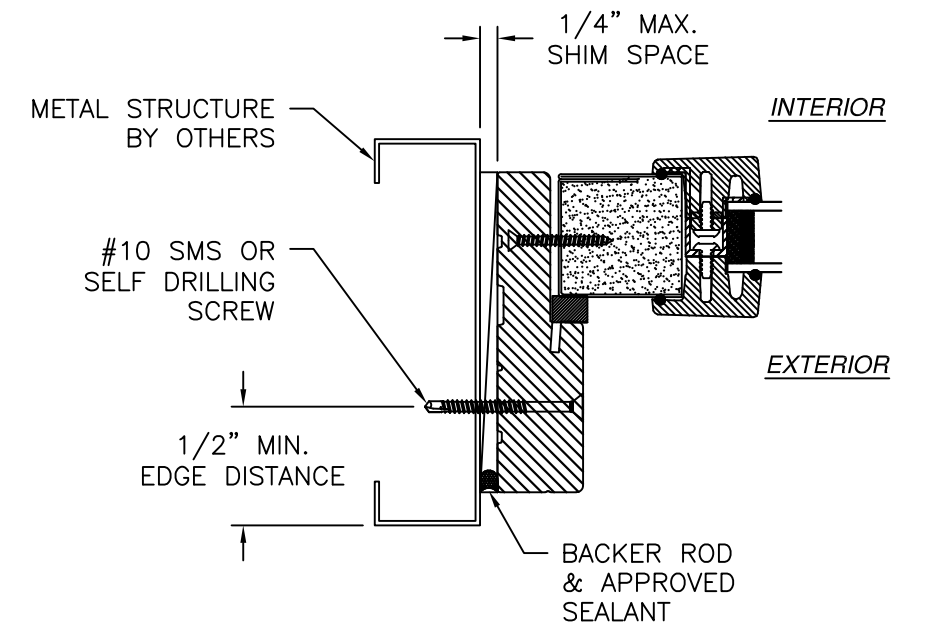


VERTICAL CROSS SECTION
DOOR INSTALLATION
METAL STRUCTURE INSTALLATION



VERTICAL CROSS SECTION
SIDELITE INSTALLATION
METAL STRUCTURE INSTALLATION

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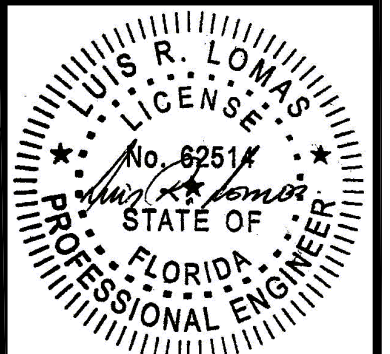
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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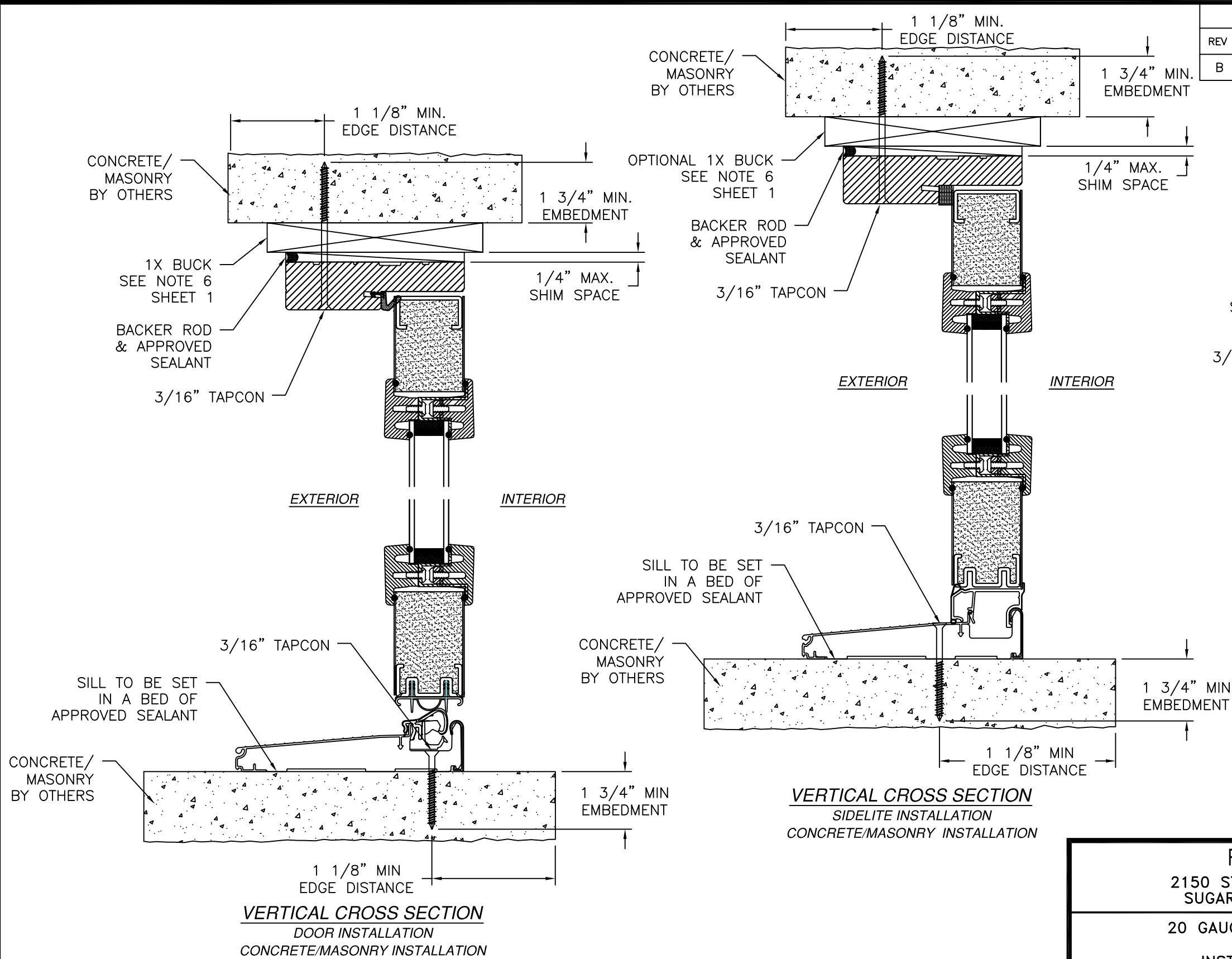
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
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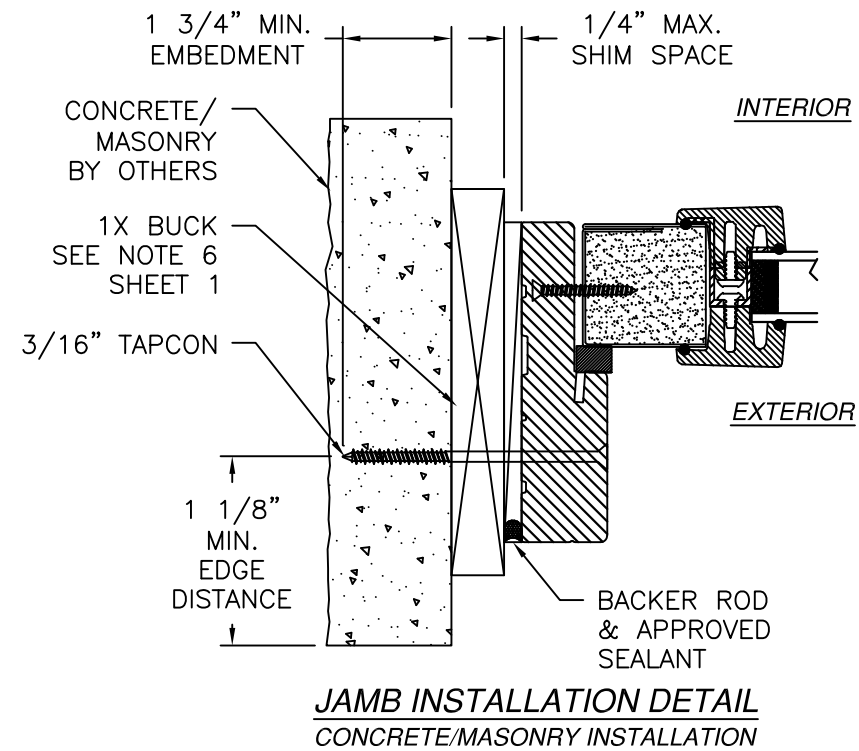
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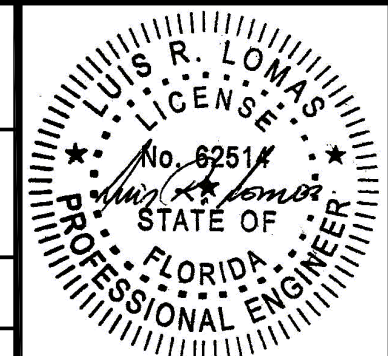
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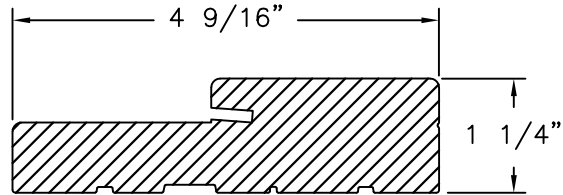
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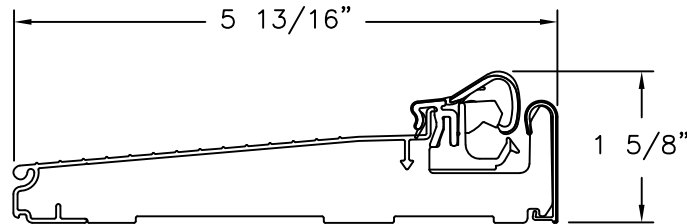


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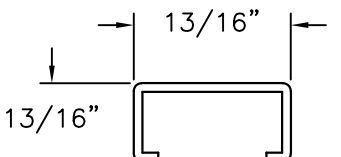
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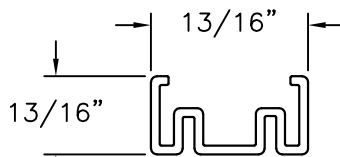
FRAMESAVER
COMPOSITE



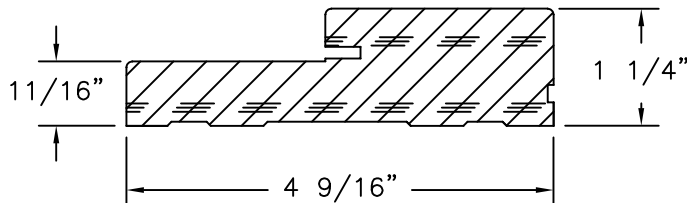
**ZAC THRESHOLD W/
ARTICULATING CAP**



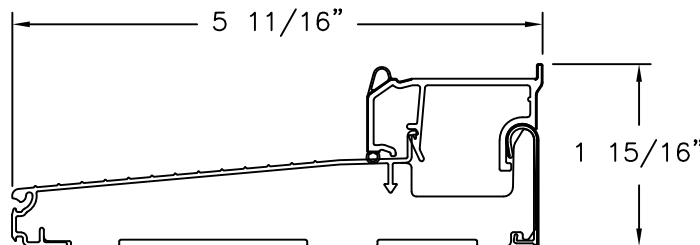
TOP C CHANNEL
WOOD G.46 MIN.



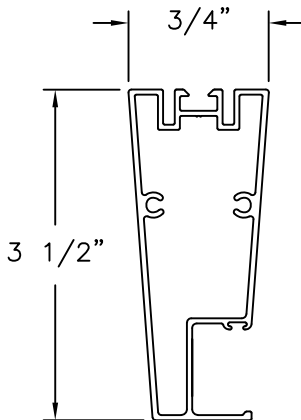
BOTTOM W CHANNEL
WOOD G.46 MIN.



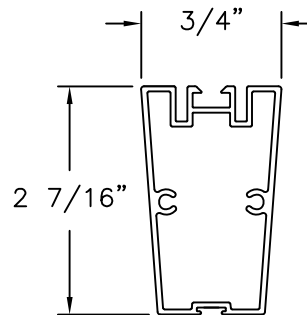
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WOOD G.46 MIN.



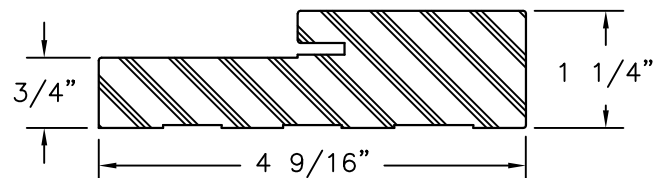
**ZAC THRESHOLD W/90 SERIES
I/S SIDELITE SILL CAP**



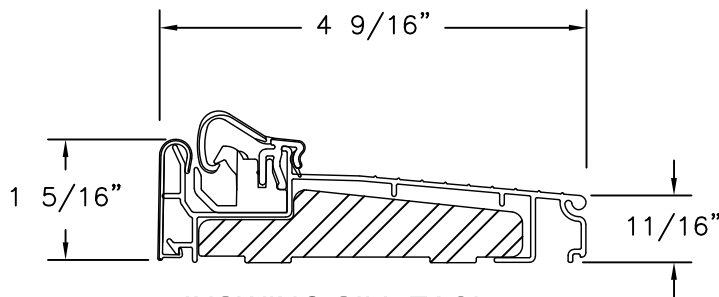
MULLION
ALUMINUM



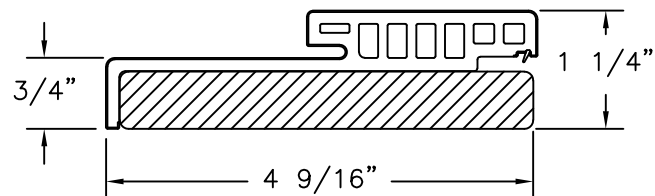
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ALUMINUM



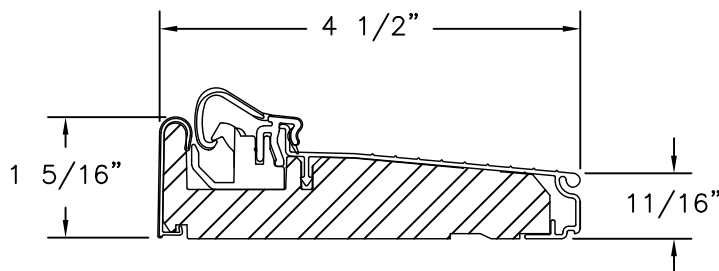
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COMPOSITE



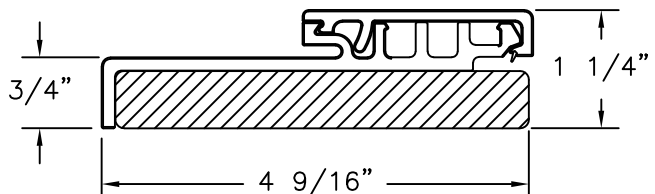
INSWING SILL ZACL4565



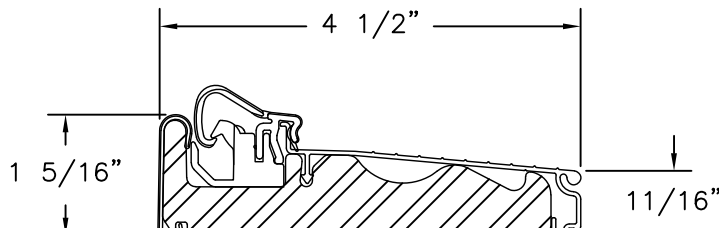
HYBRID HEAD
WOOD/COMPOSITE



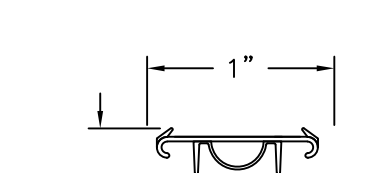
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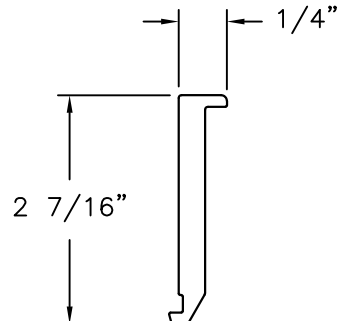
HYBRID JAMB
WOOD/COMPOSITE



INSWING SILL ZAC4565F



ENDURA ZAC SWEP
WOOD G.46 MIN.



MULLION SPACER
PVC

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COMPONENTS

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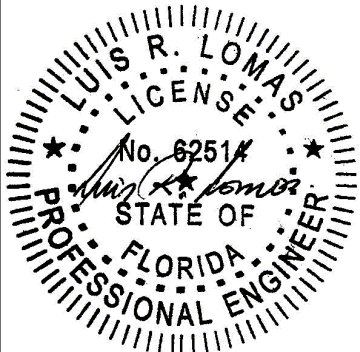
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