

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/19/2022	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD 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” WINDOW 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. WINDOW 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 WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. FOR FRAME INSTALLATION 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: EXTRUDED ALUMINUM 6005–T5.
11. UNITS MUST BE GLAZED PER ASTM E1300–04/09, SEE SHEET 3 FOR GLASS DETAILS.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
13. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 1/4” TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1 7/8” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #14 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:

A. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42

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

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

D. METAL STRUCTURE: STEEL 18GA (.048”) FY=33KSI/FU=52KSI OR ALUMINUM 6063–T5 FU=30KSI .048” THICK MINIMUM
18. APPROVED CONFIGURATIONS: OXO
19. DOOR ASSEMBLIES INSTALLED WHERE OVERHANG RATIO IS EQUAL OR GREATER THAN 1.0 DO NOT REQUIRE WATER INFILTRATION RESISTANCE.

OVERHANG RATIO = OVERHANG LENGHT/OVERHANG HEIGHT.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATION, ANCHORING LAYOUTS AND CHARTS
3	PLAN VIEWS AND COMPONENTS
4 – 11	INSTALLATION DETAILS

MI WINDOWS AND DOORS LLC

650 WEST MARKET STREET

GRATZ, PA 17030

SERIES 120/130/140 ALUMINUM SLIDING GLASS DOOR – IMPACT 145” X 96” OXO

NOTES

DRAWN: R.S.

DWG NO. 08–03088

REV A

SCALE NTS

DATE 04/18/17

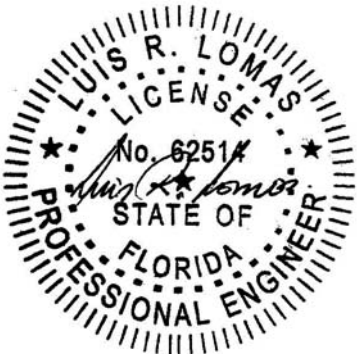
SHEET 1 OF 11

L. ROBERTO LOMAS P.E.

400 S. PALM AVE, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

SIGNED: 10/19/2022



Luis R. Lomas P.E.

FL No.: 62514

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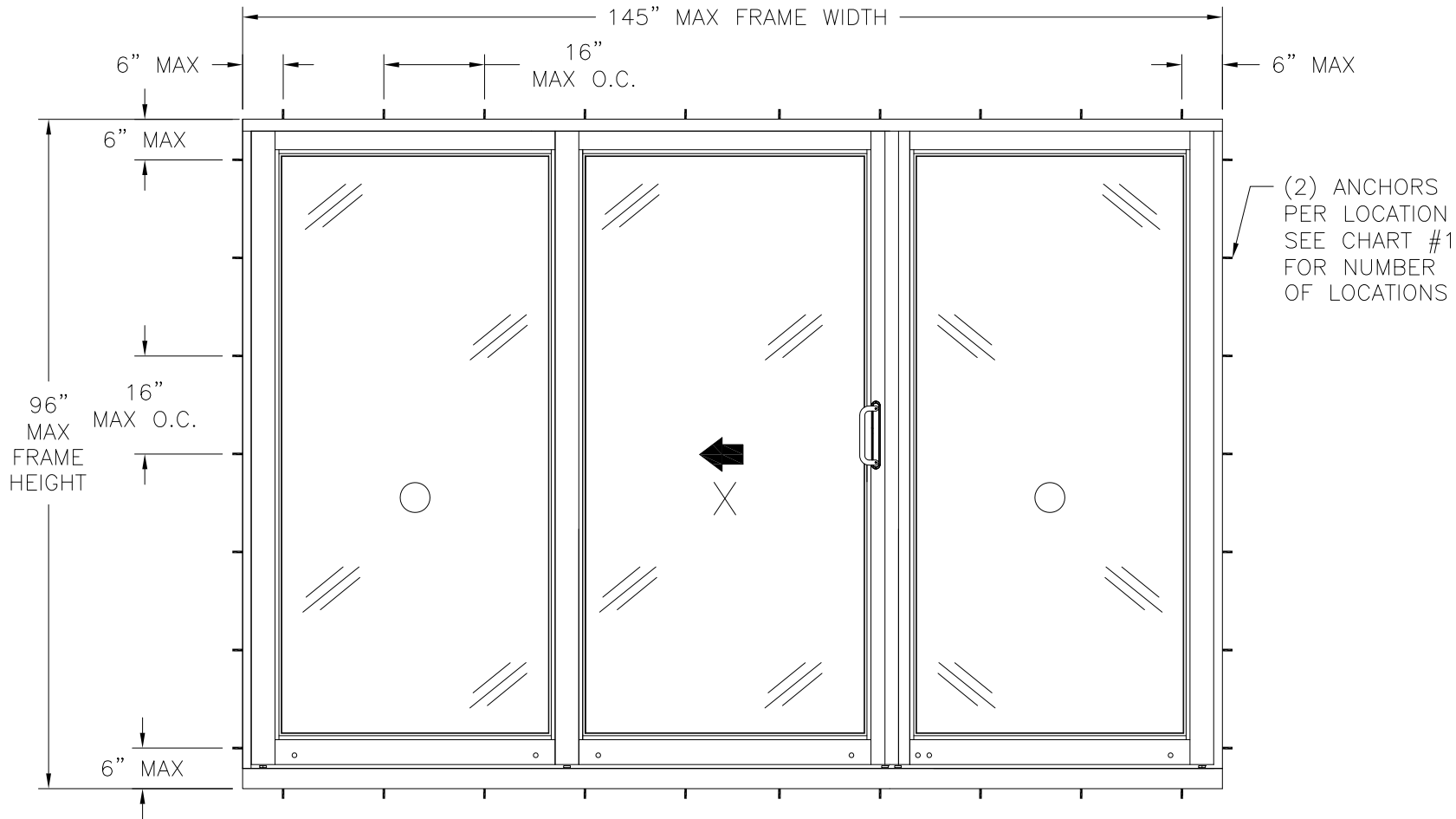


CHART #1												
Number of anchor locations required												
Frame Height (in)	Frame Width (in)											
	72.00		90.00		108.00		126.00		144.00		145.00	
	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb
80.00	5	6	6	6	7	6	9	6	10	6	10	6
84.00	5	6	6	6	7	6	9	6	10	6	10	6
90.00	5	6	6	6	7	6	9	6	10	6	10	6
96.00	5	7	6	7	7	7	9	7	10	7	10	7

SERIES 120 ALUMINUM SLIDING GLASS DOOR - IMPACT 2 TRACK (OXO)

EXTERIOR VIEW
FINLESS & FLANGE INSTALLATION

WITH STANDARD SILL

DESIGN PRESSURE RATING	IMPACT RATING
+15.0/-55.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3
WHERE WATER PENETRATION RESISTANCE IS REQUIRED

WITH 2 5/8" & 3 1/2" SILL EXTENDERS

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3
WHERE WATER PENETRATION RESISTANCE IS REQUIRED

WITH STANDARD SILL AND 2 5/8" & 3 1/2" SILL EXTENDERS

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE AND SMALL MISSILE IMPACT

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED

NOTES:

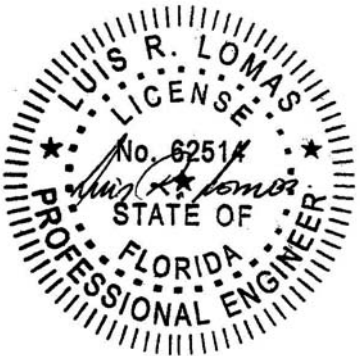
1. MAXIMUM PANEL SIZE: 48 5/8" X 93 1/2"
2. MAXIMUM D.L.O.: 40 5/8" X 85 1/2"

HARDWARE SCHEDULE

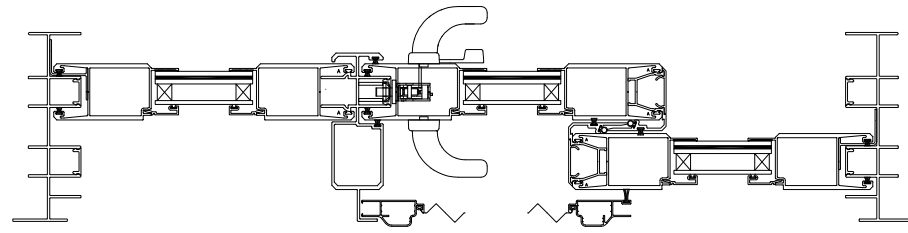
A.	TANDEM ROLLER ASSEMBLY, 2 PER PANEL, AT BOTTOM RAIL, 8" FROM EACH END
B.	LOCK HANDLE, 1 PER OPERABLE PANEL, AT LOCK STILE, 39" FROM BOTTOM RAIL

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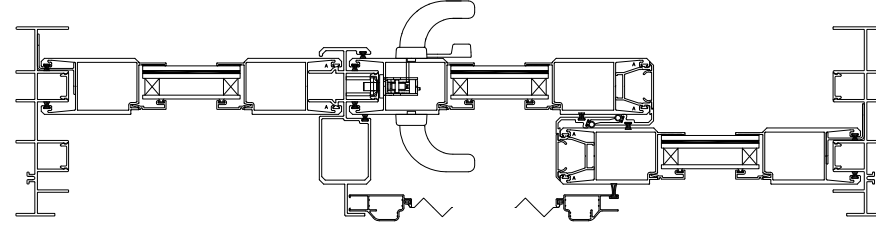
MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SLIDING GLASS DOOR – IMPACT 145" X 96" OXO ELEVATION		
DRAWN: R.S.	DWG NO. 08-03088	REV A
SCALE NTS	DATE 04/18/17	SHEET 2 OF 11
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		



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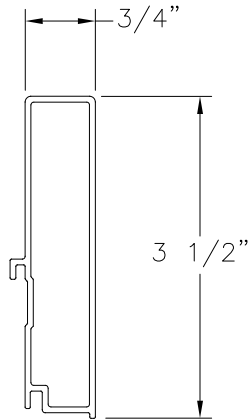


OXO (FLANGE)

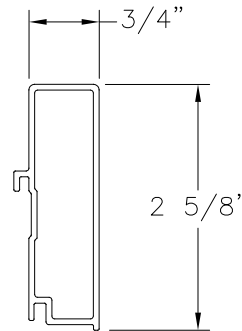


OXO (FINLESS)

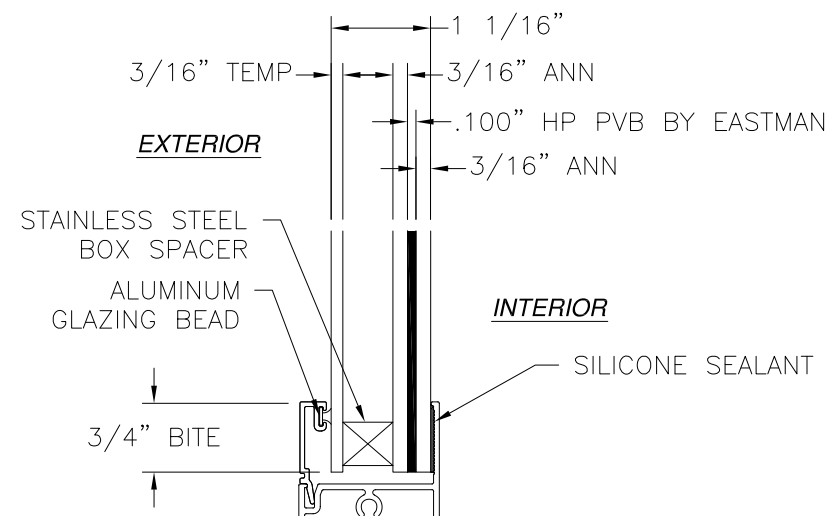
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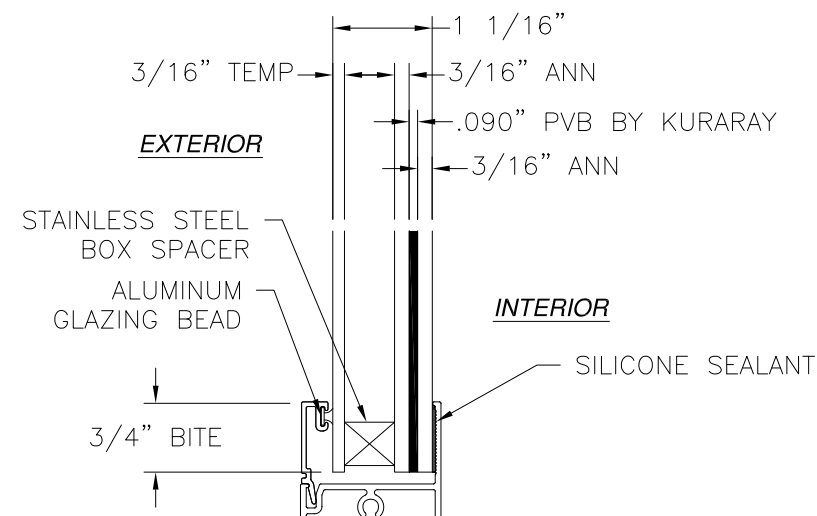
3 1/2" SILL EXTENDER
ALUMINUM 6063-T5 .062" THICK



2 5/8" SILL EXTENDER
ALUMINUM 6063-T5 .062" THICK



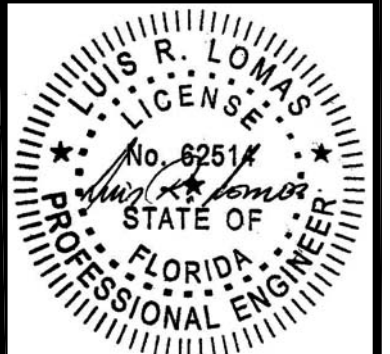
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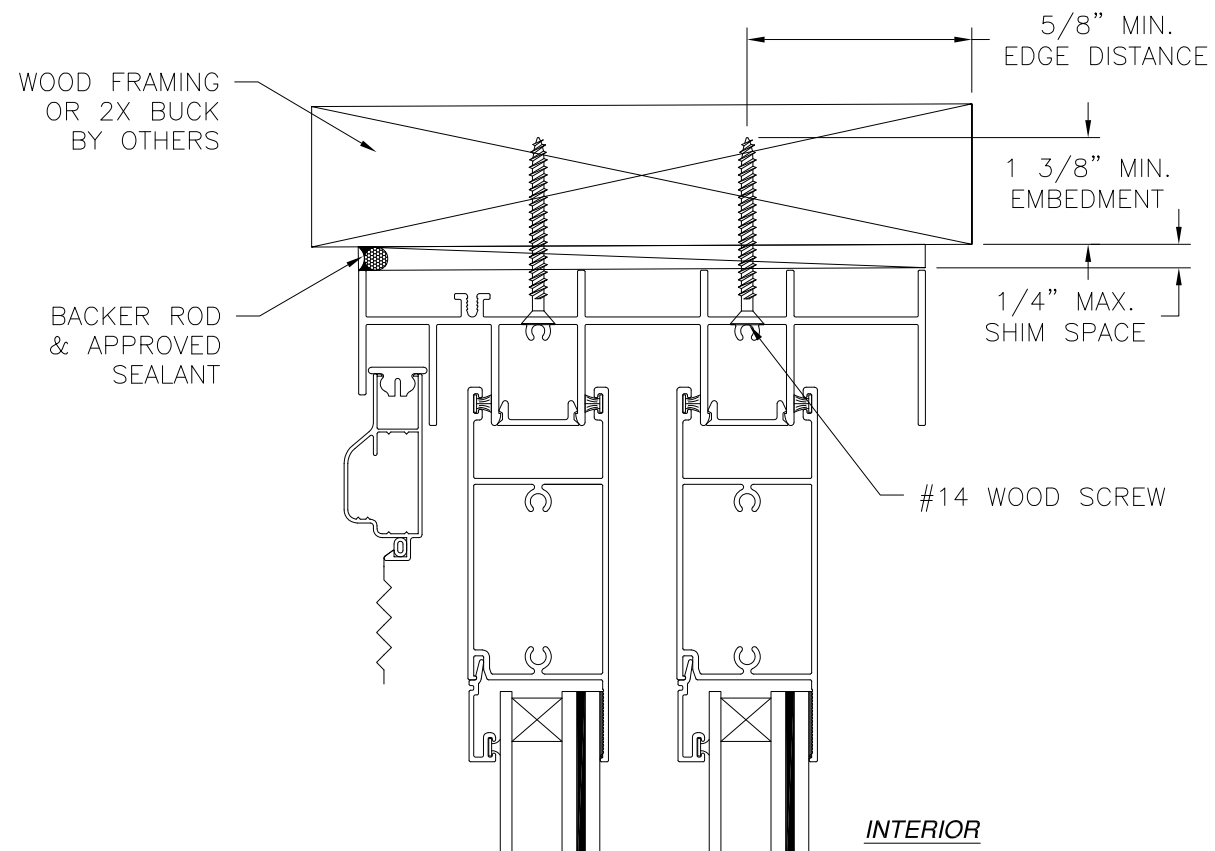
GLAZING DETAIL B

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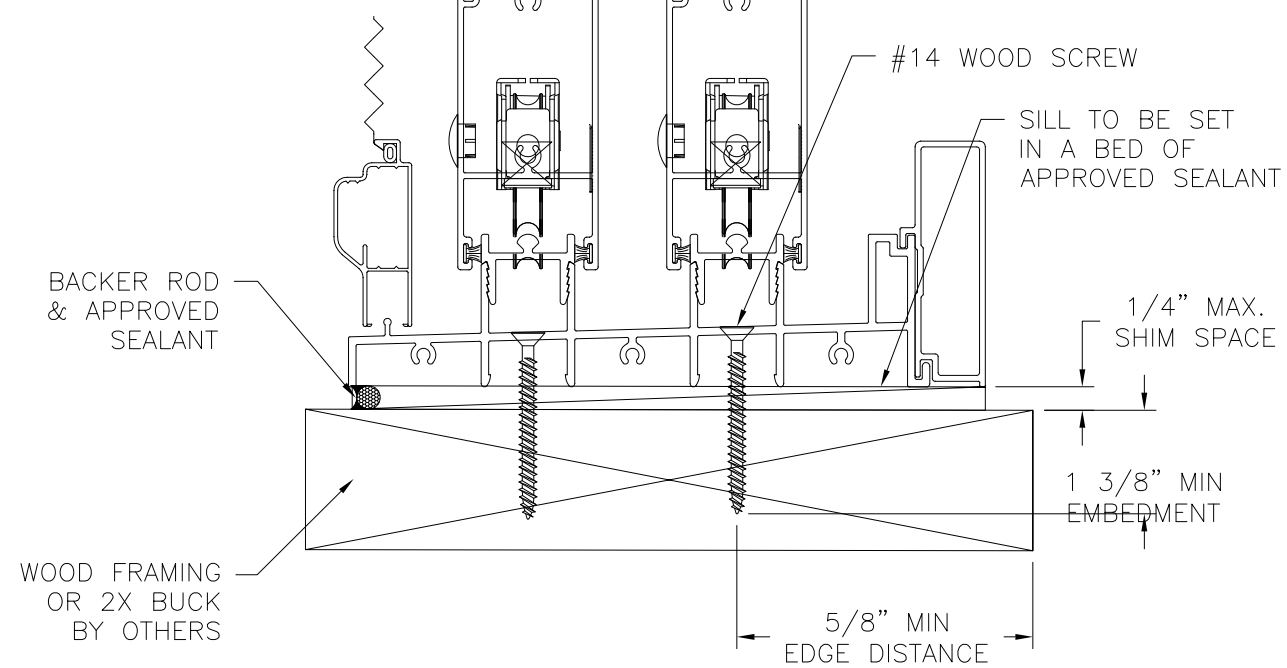


EXTERIOR

INTERIOR

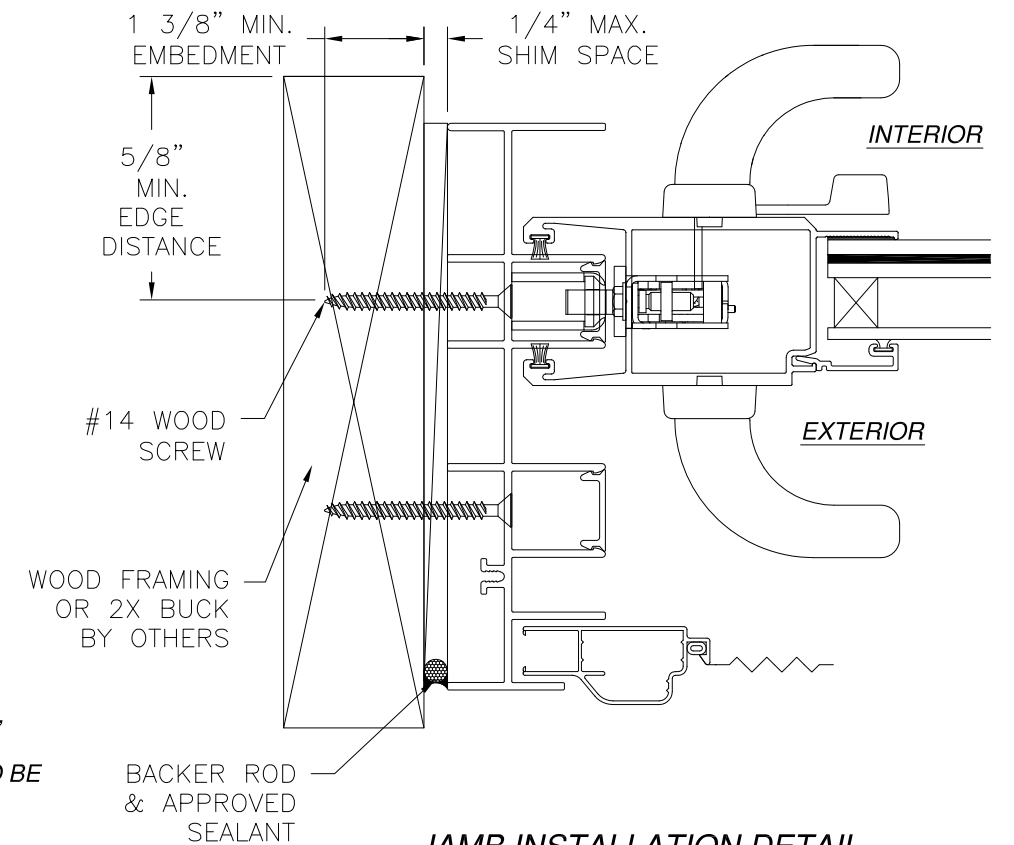
NOTES:

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2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

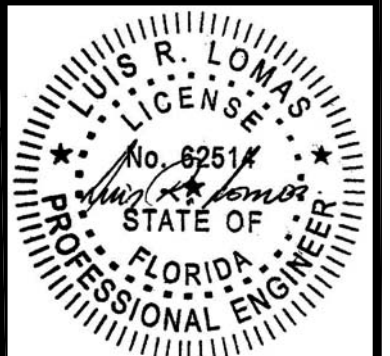
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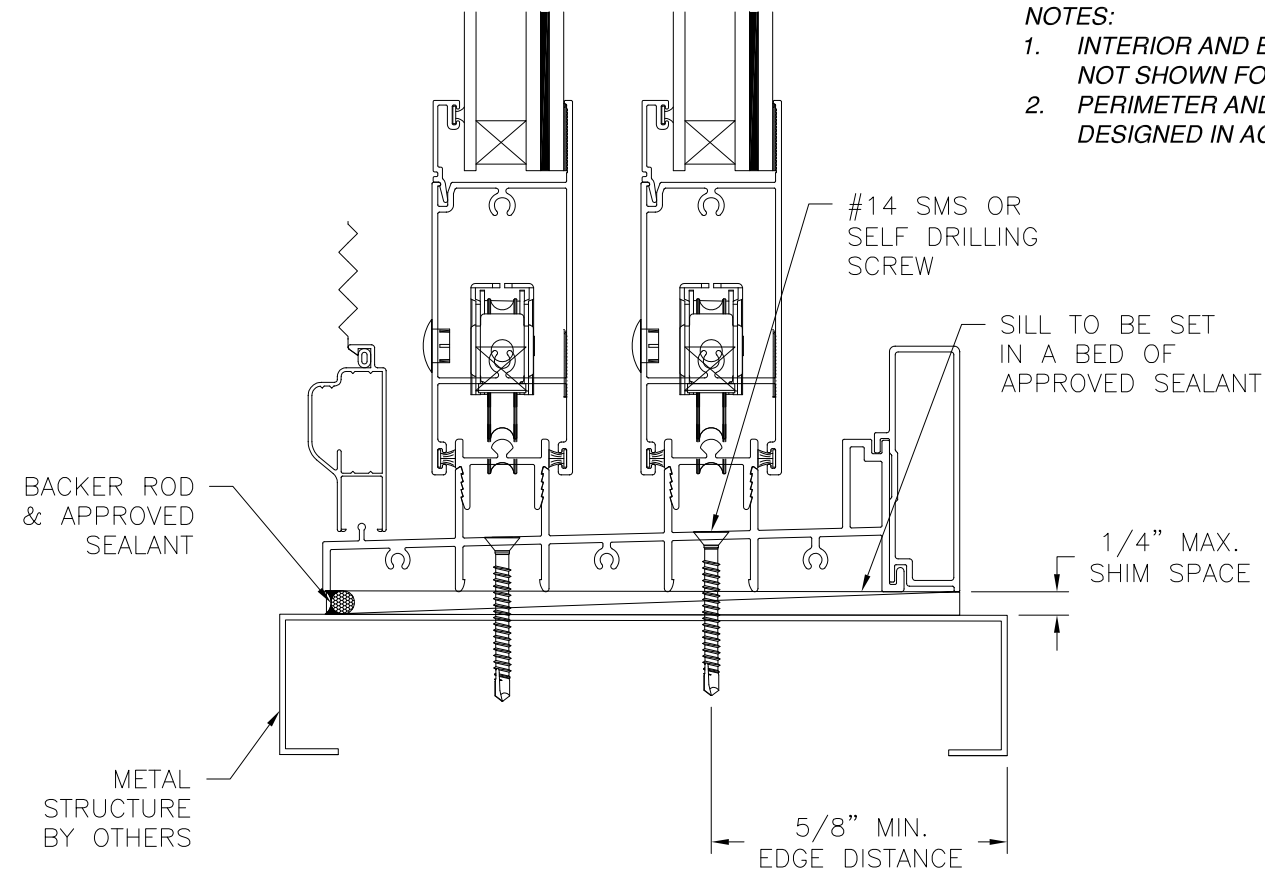
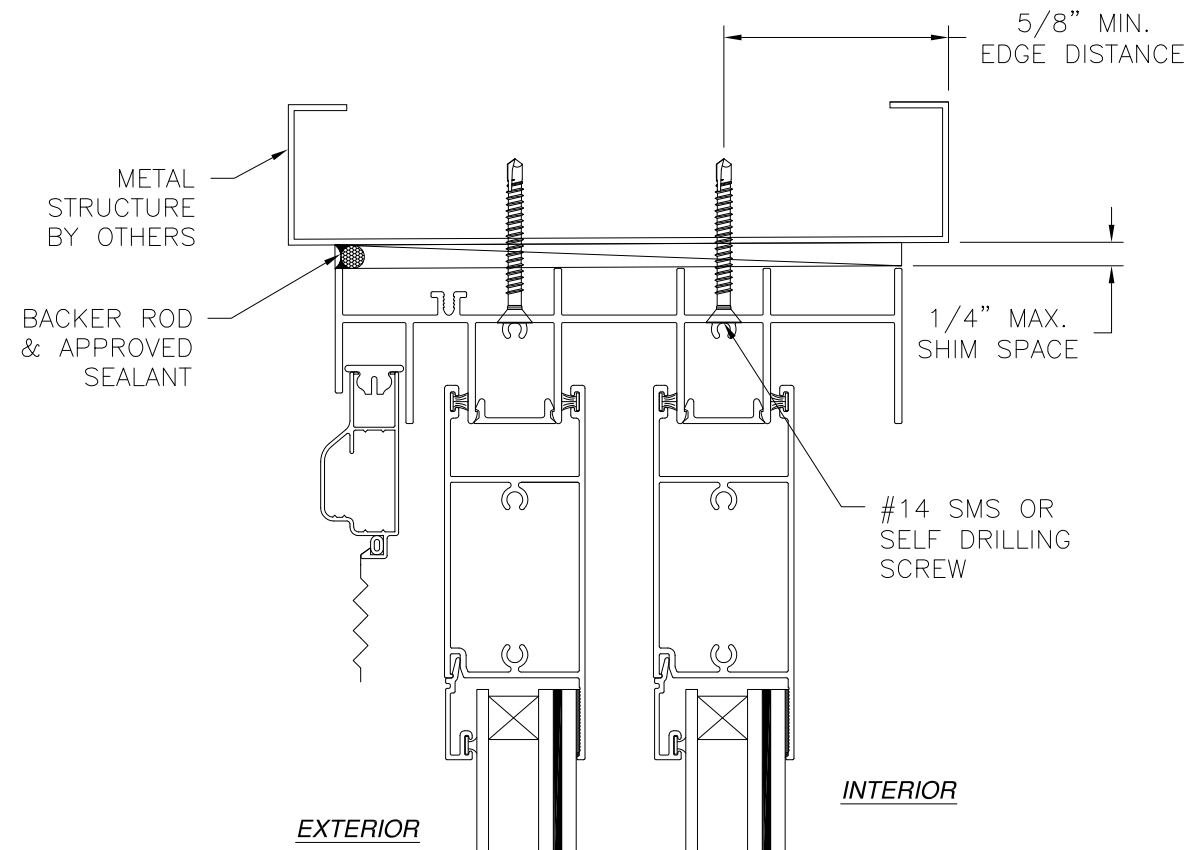
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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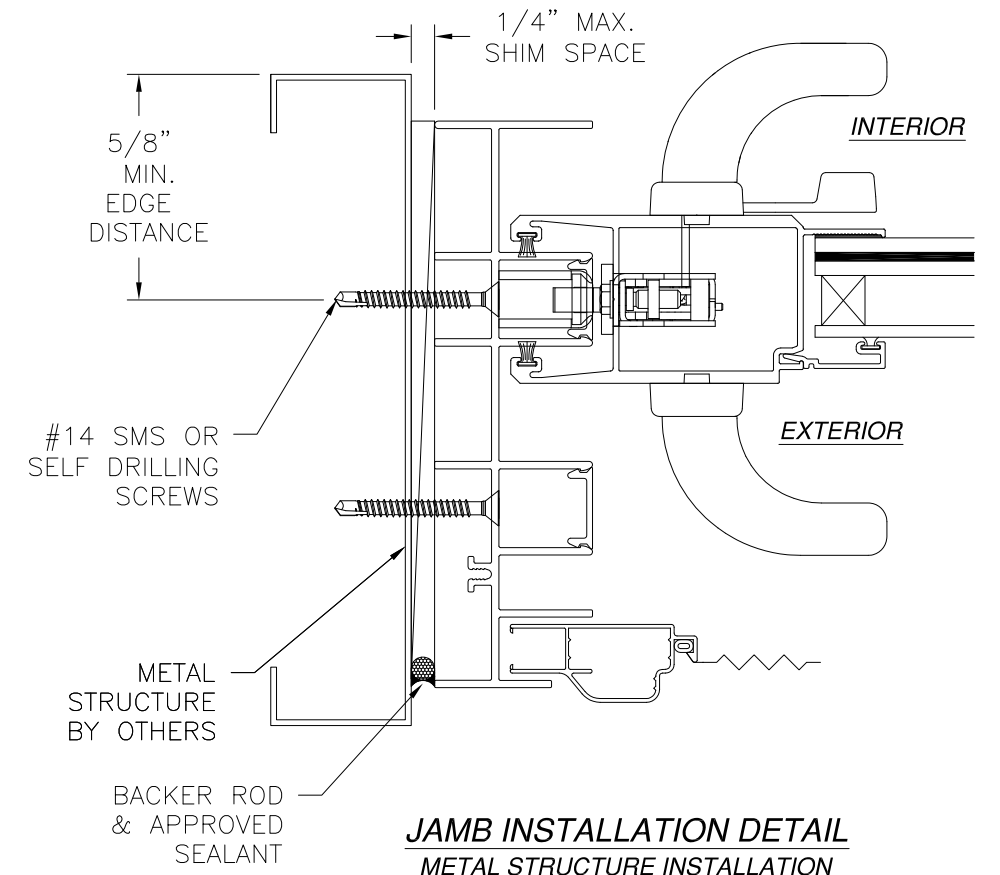
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

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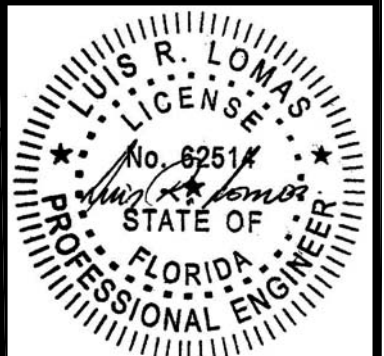
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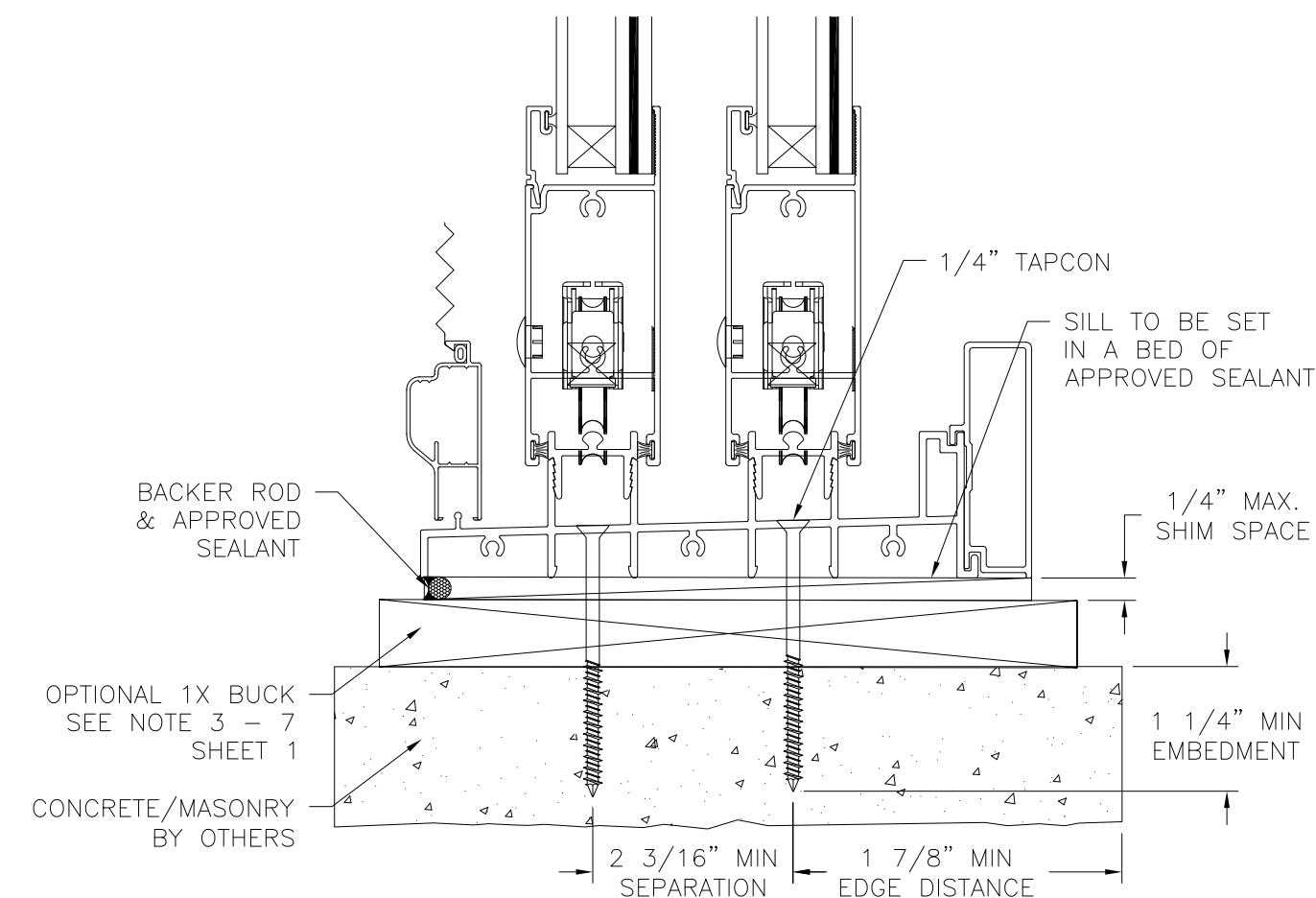
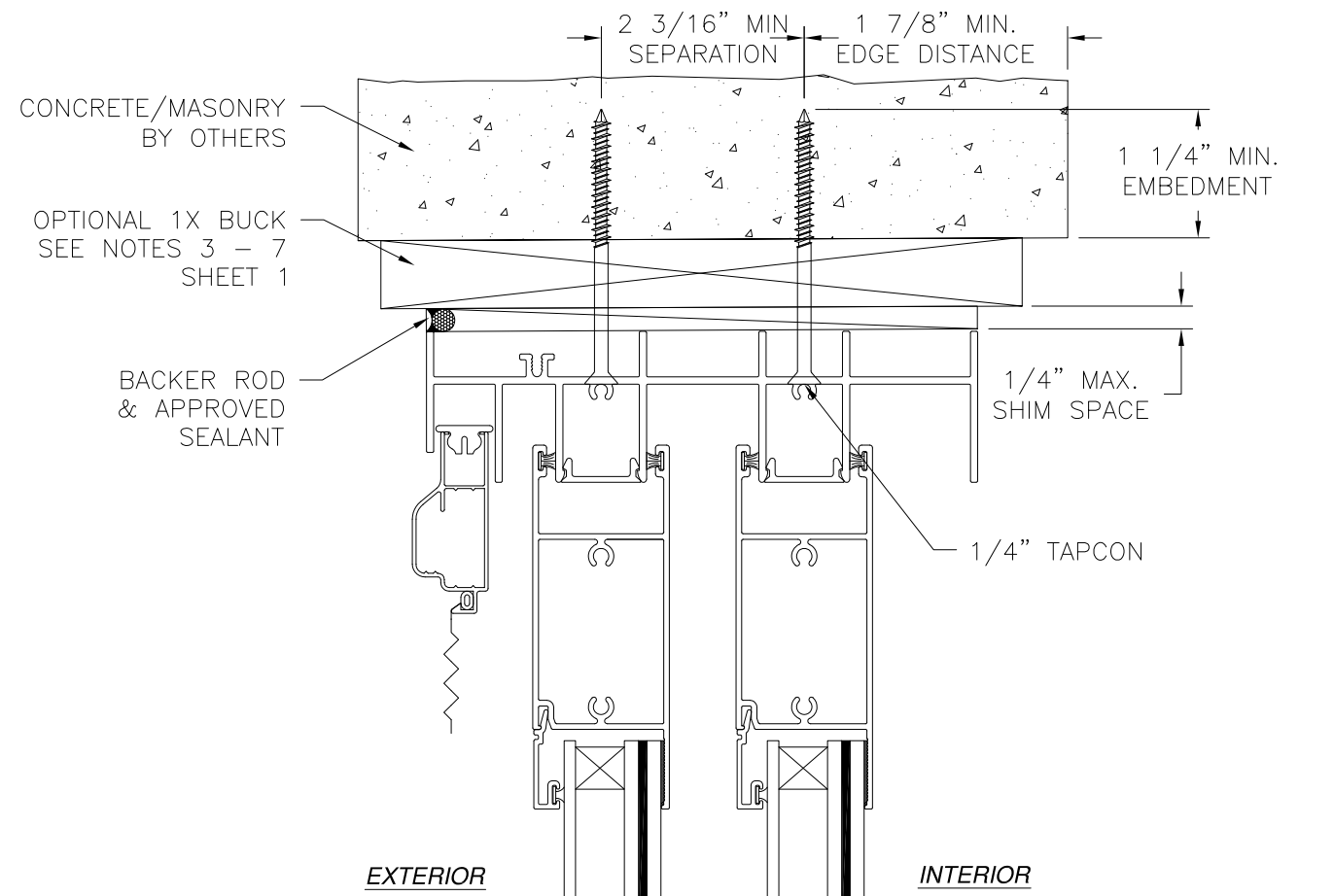
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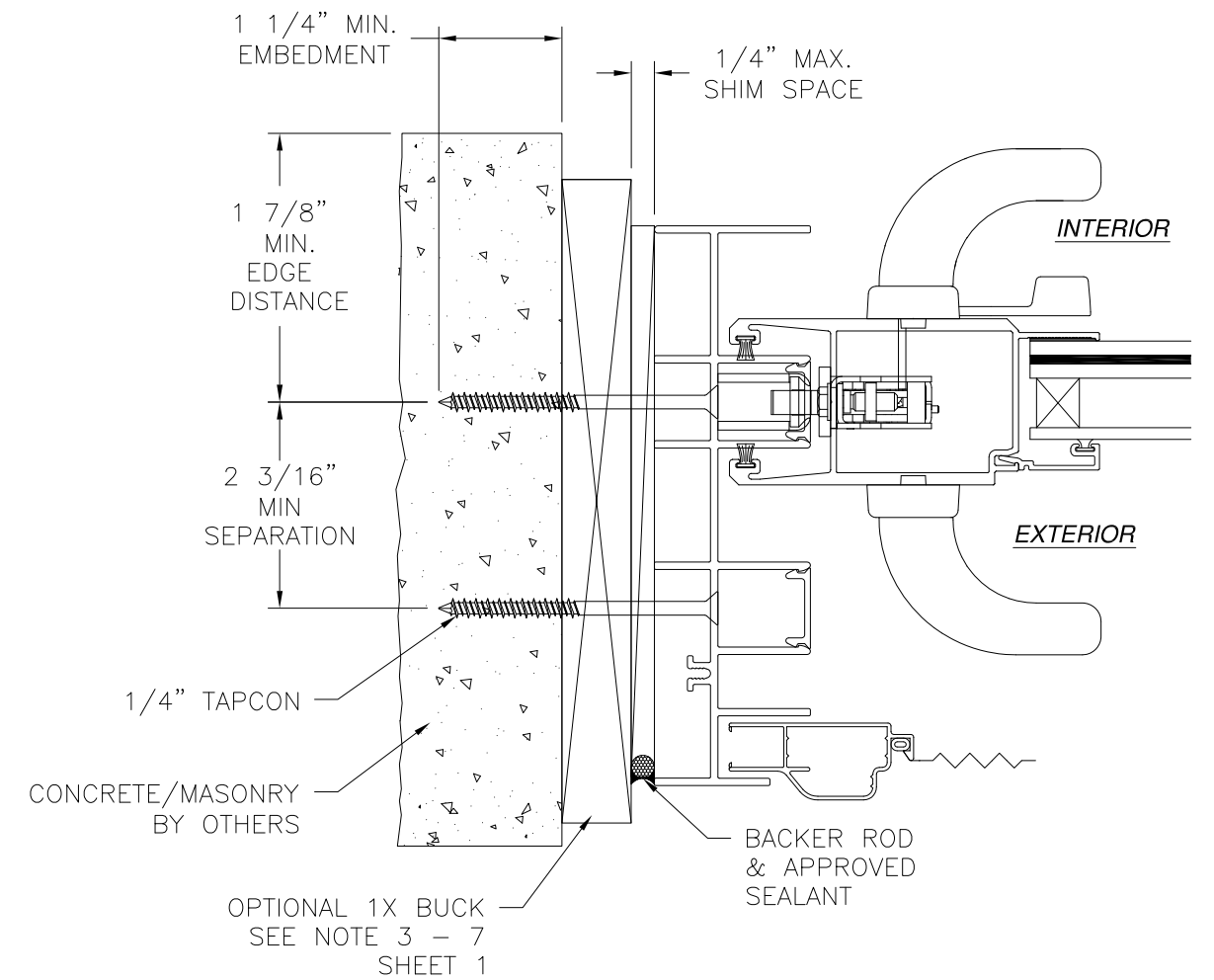


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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

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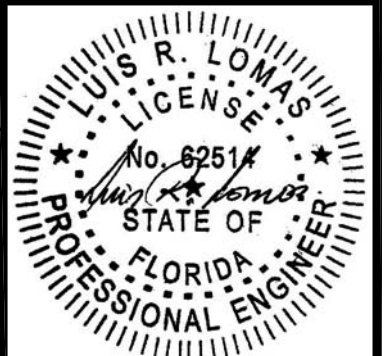
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CONCRETE/MASONRY INSTALLATION

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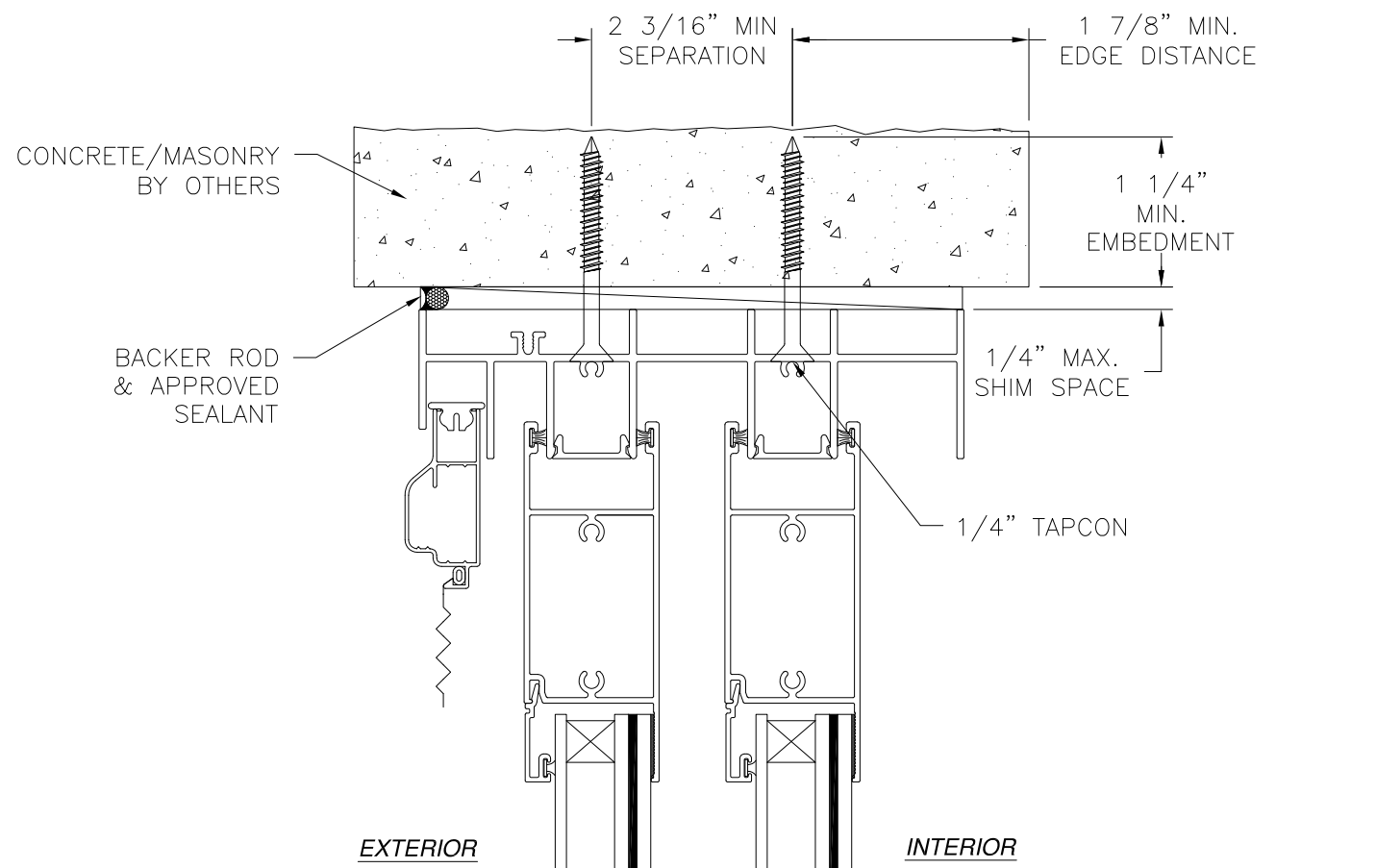
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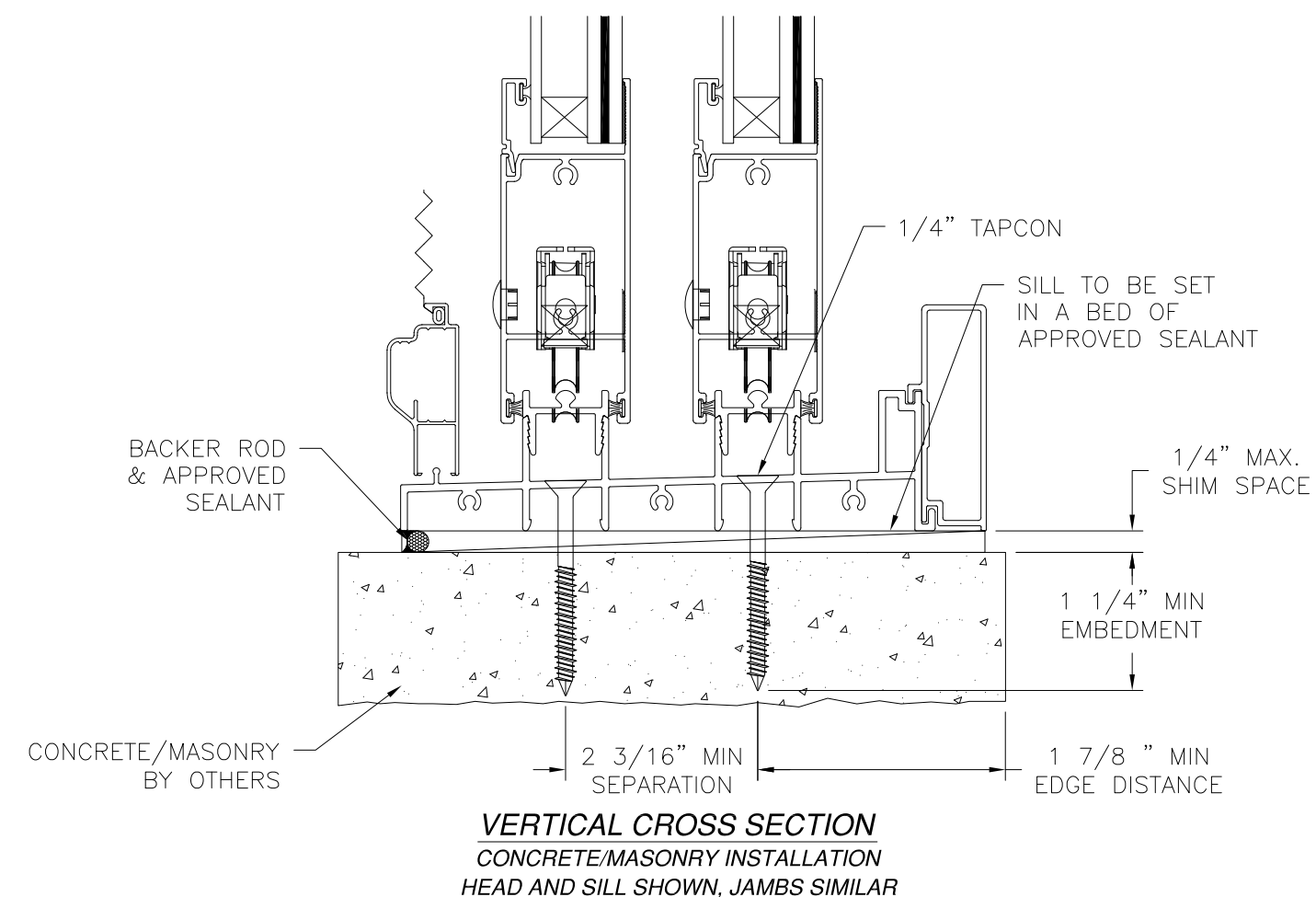


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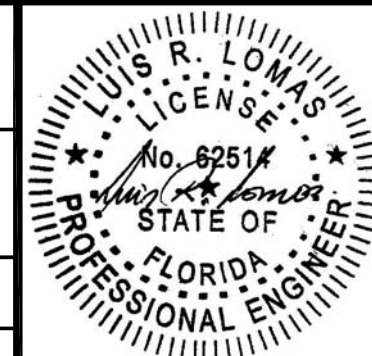


VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
HEAD AND SILL SHOWN, JAMBS SIMILAR

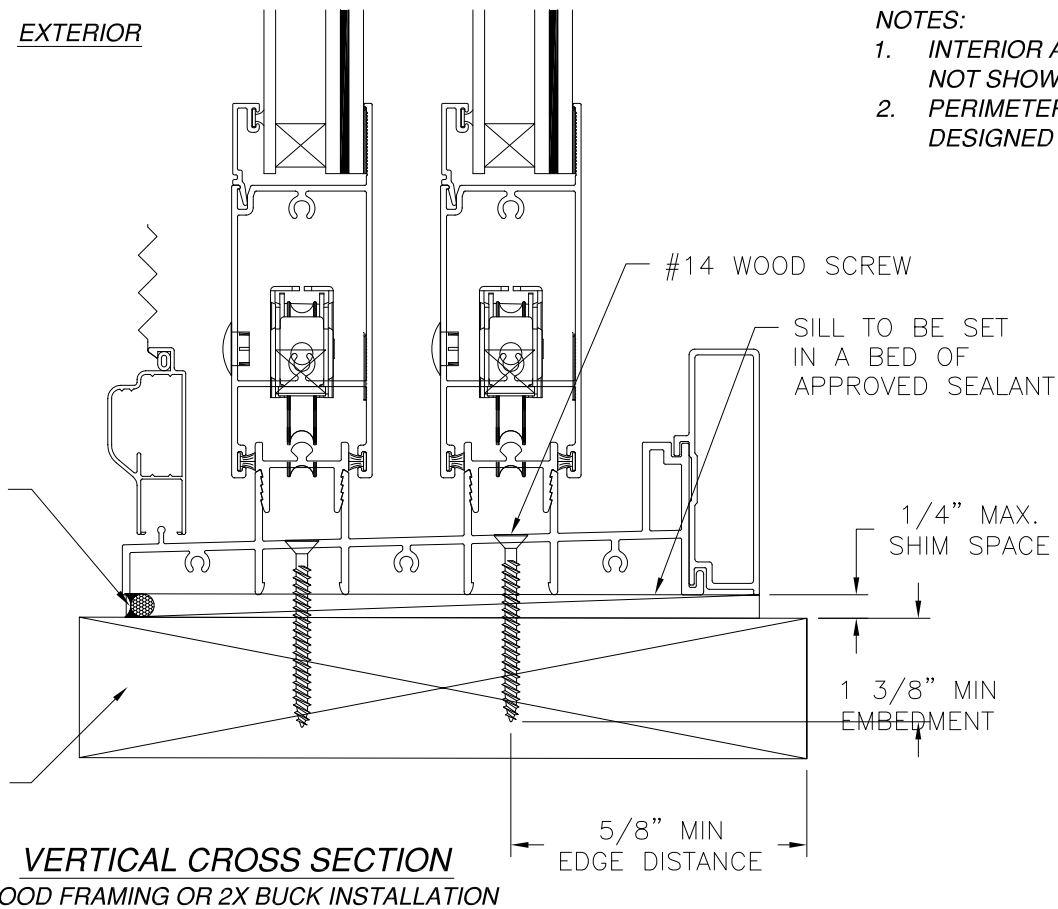
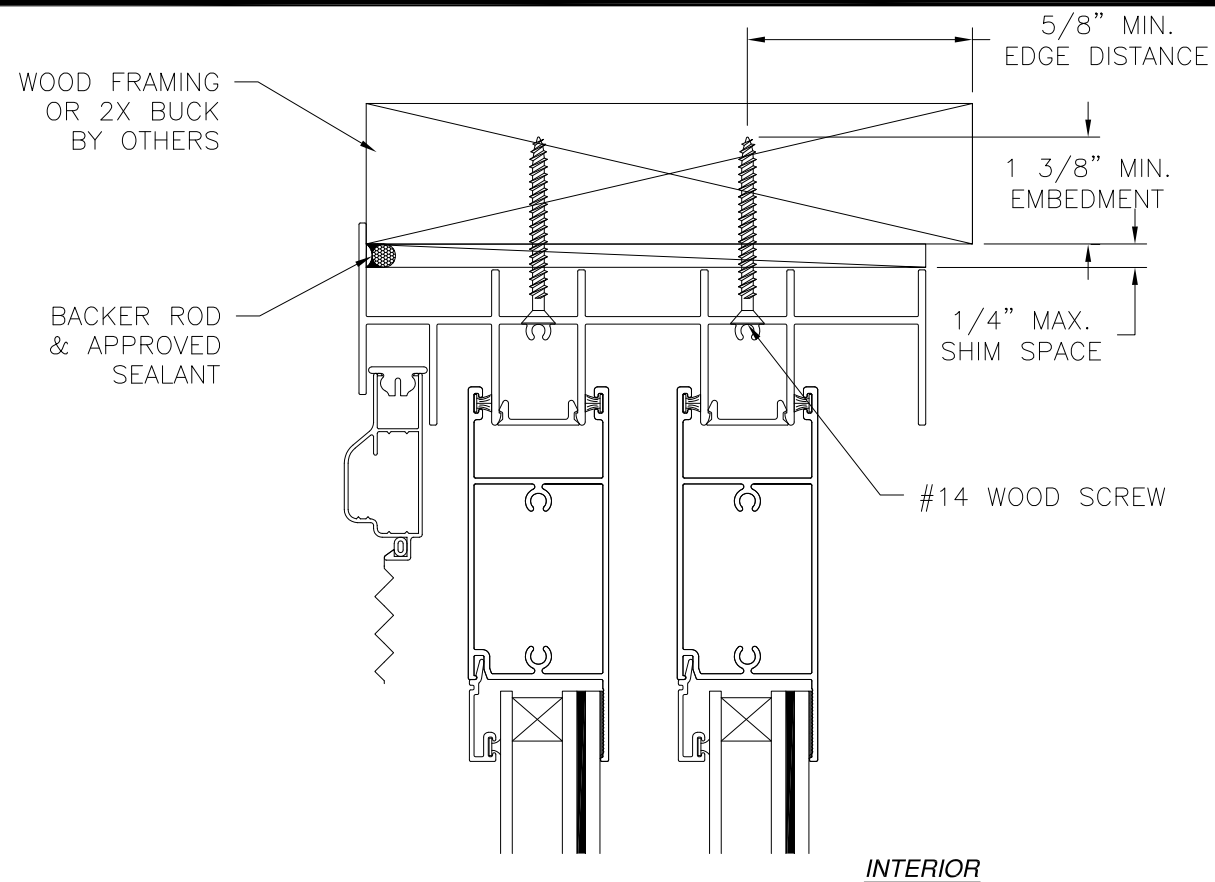
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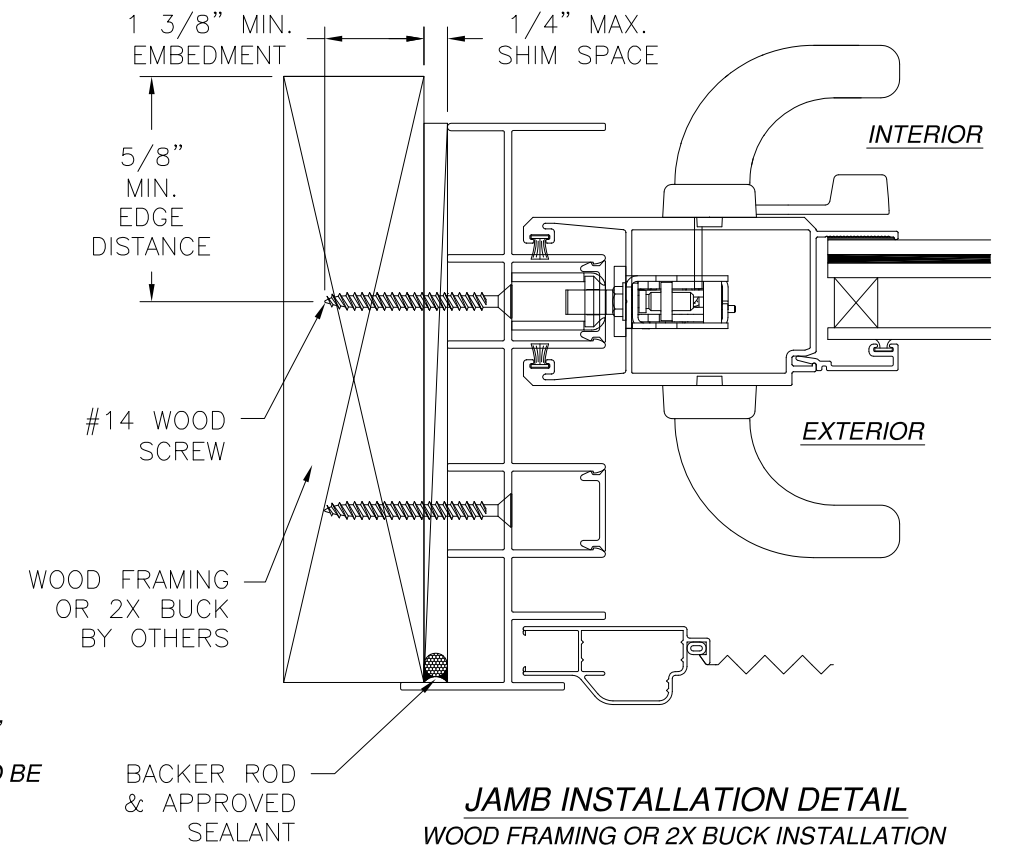


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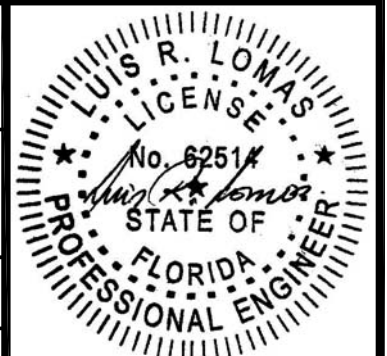
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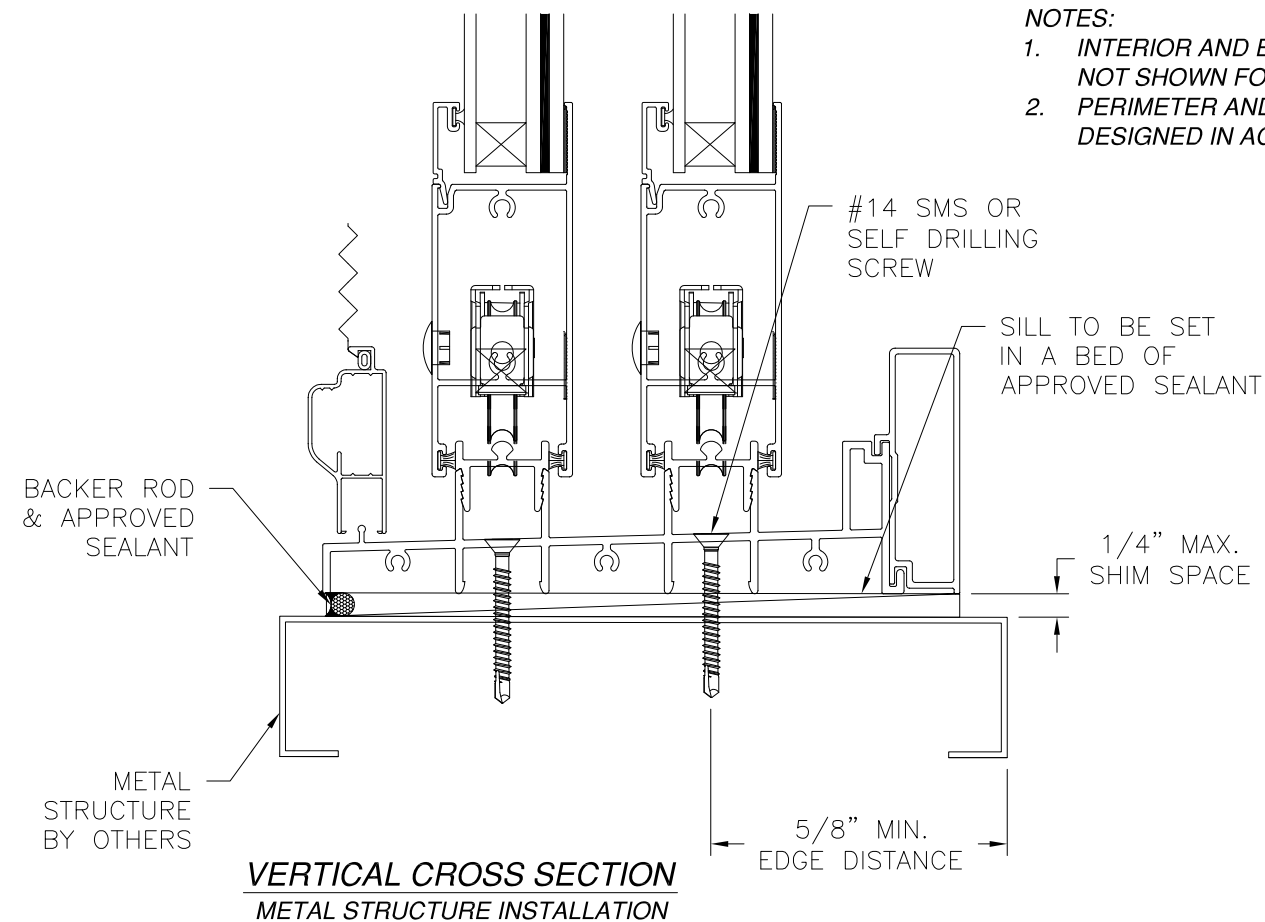
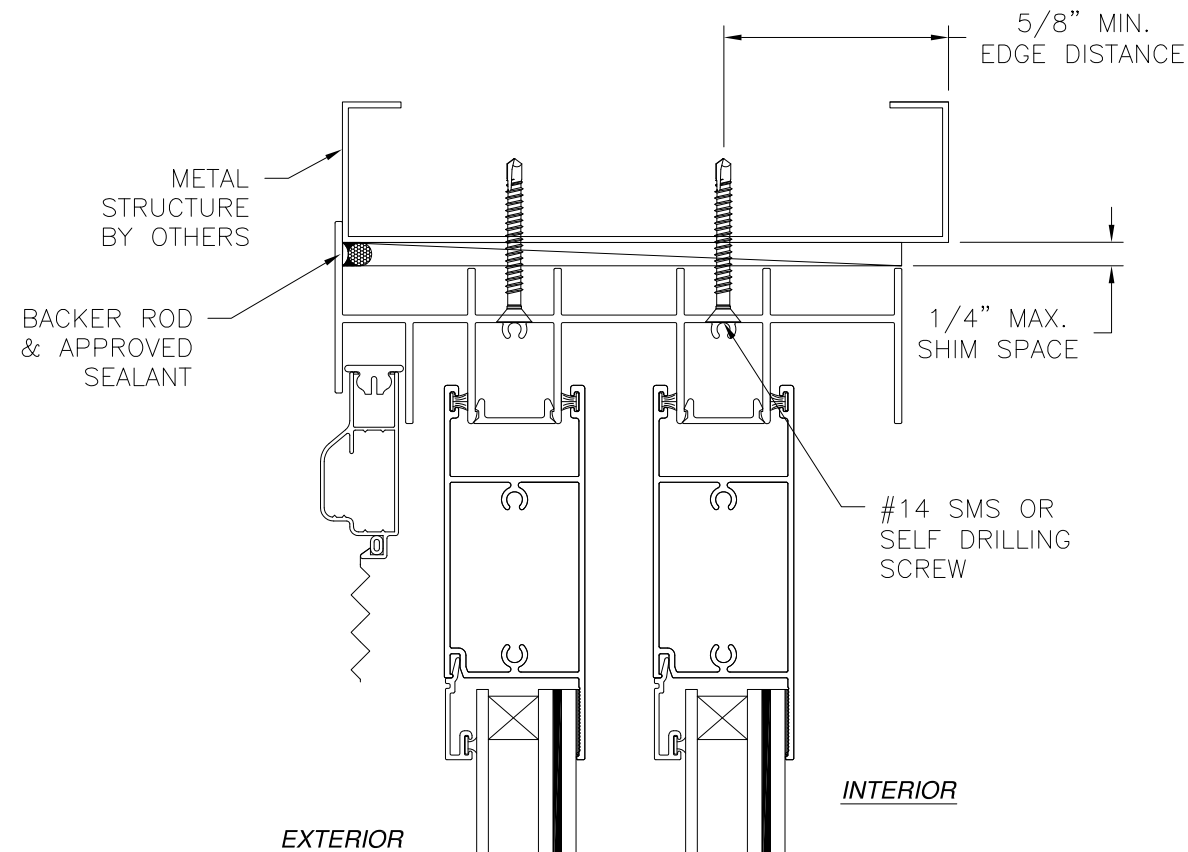


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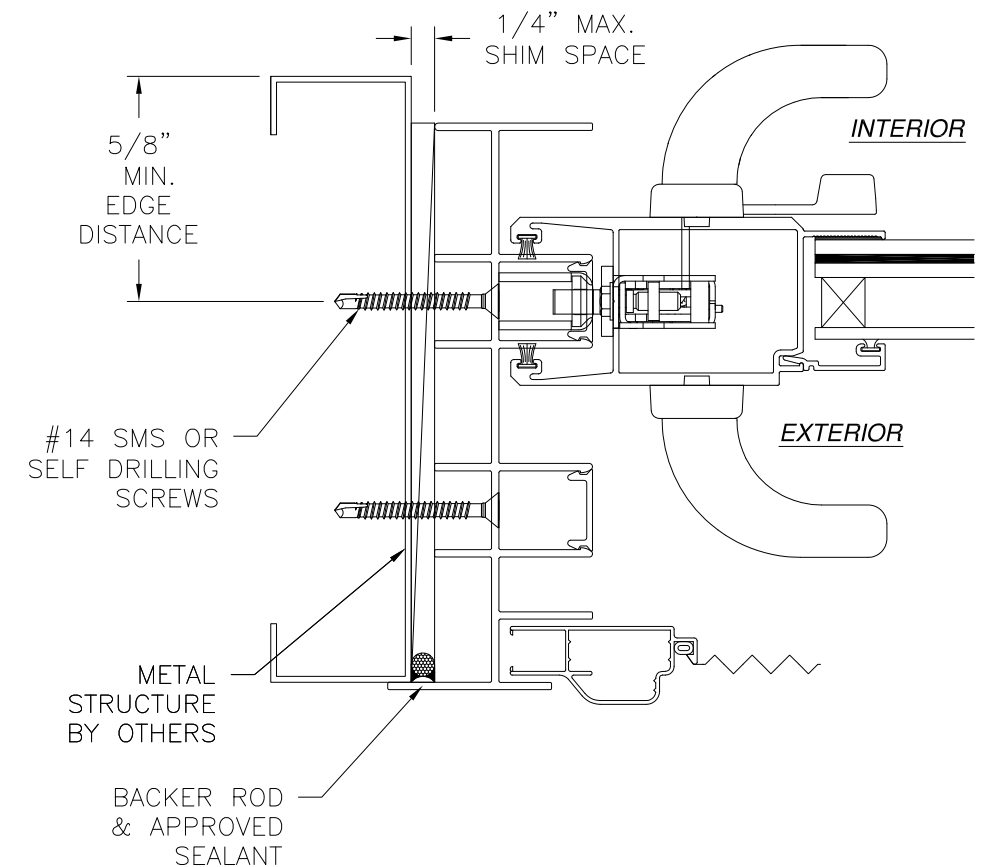


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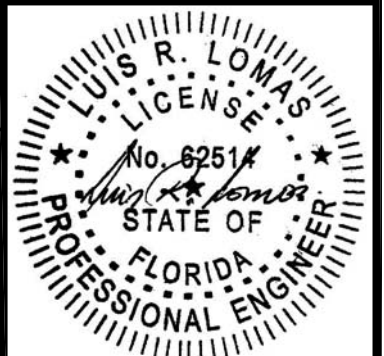
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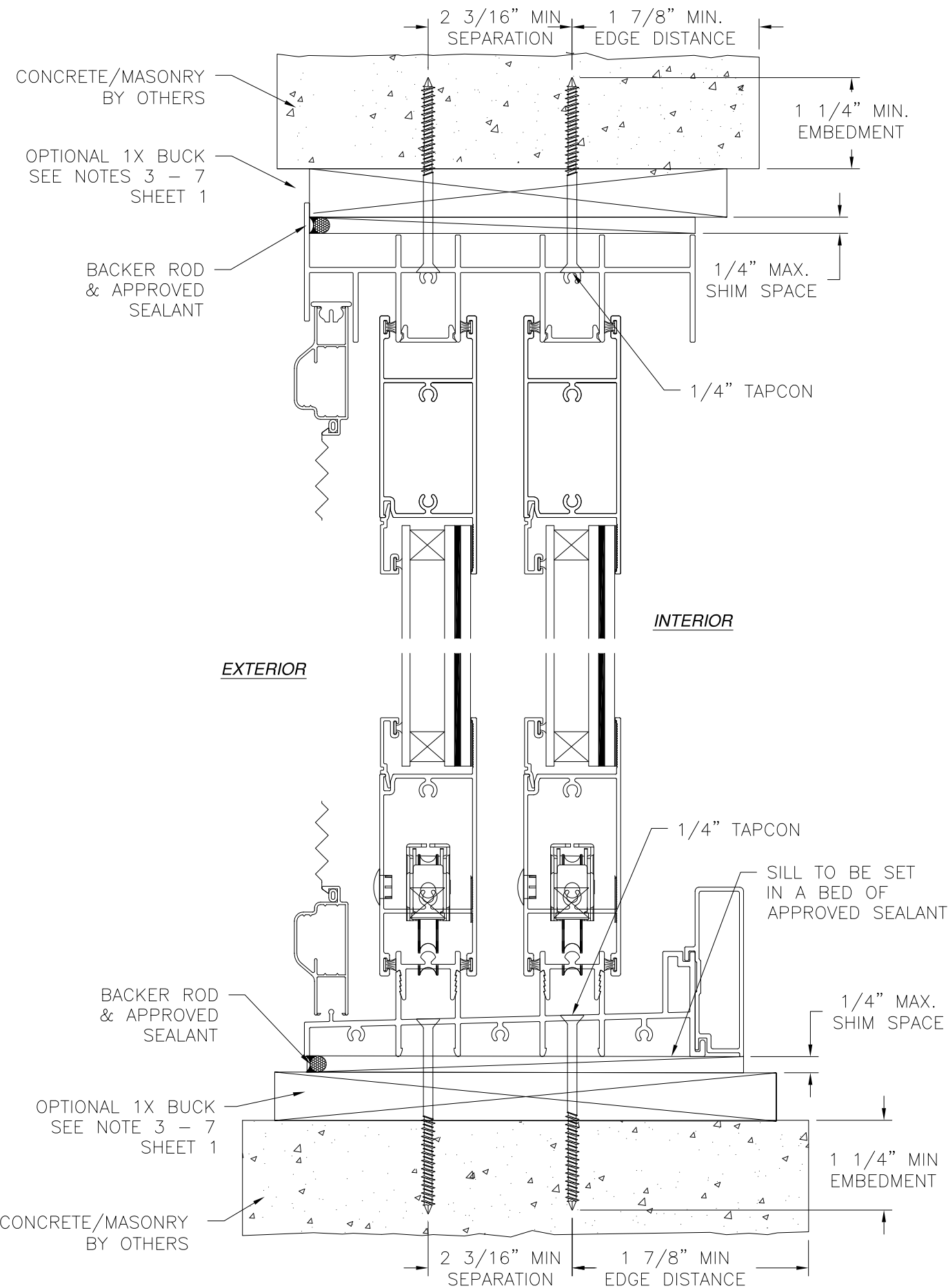
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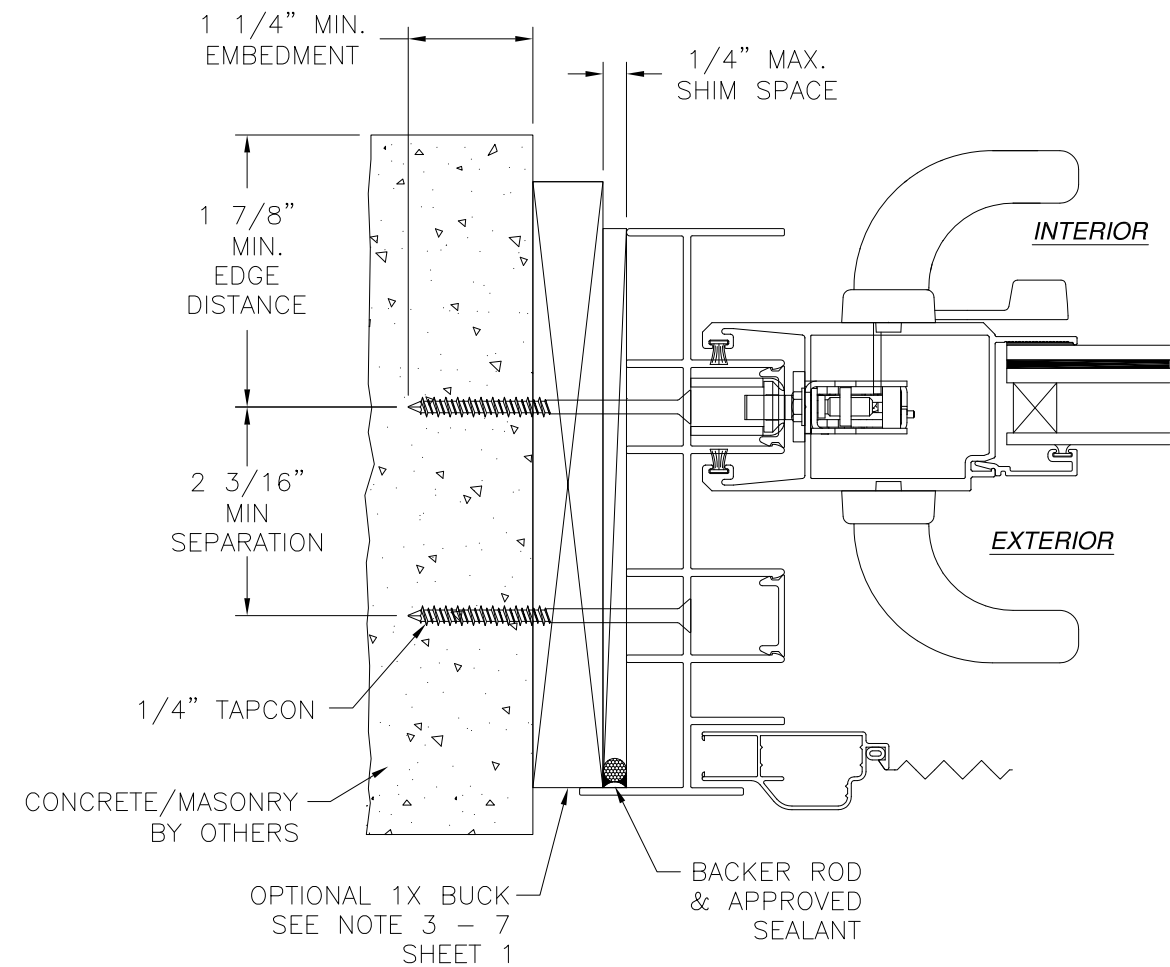


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CONCRETE/MASONRY INSTALLATION

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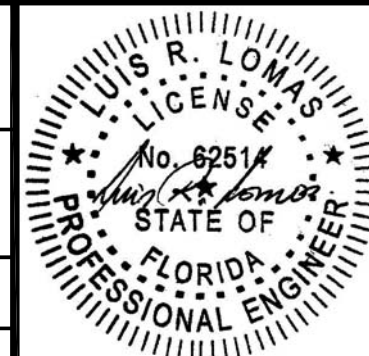
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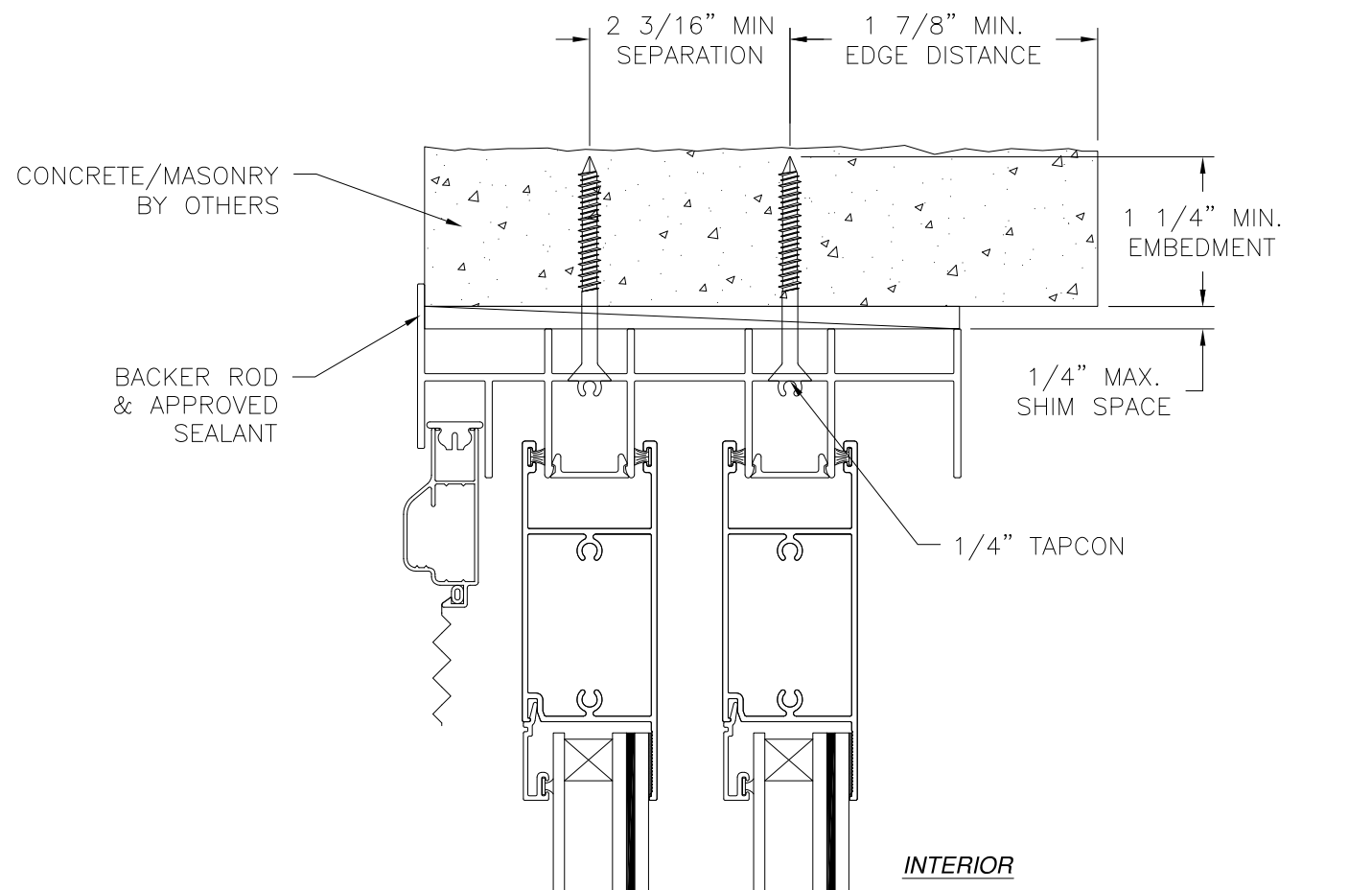
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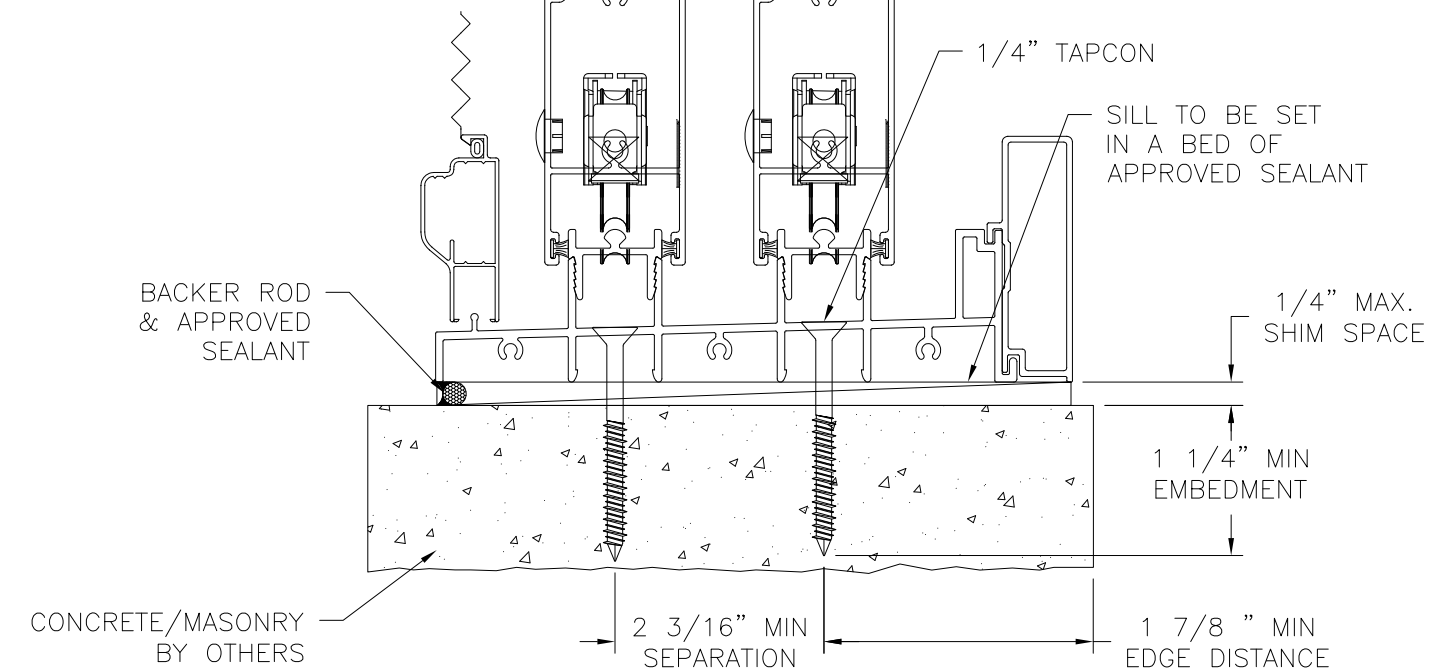
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SCALE NTS	DATE 04/18/17	SHEET 10 OF 11
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		



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



EXTERIOR



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
 HEAD AND SILL SHOWN, JAMBS SIMILAR

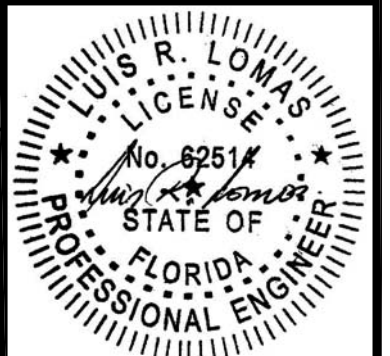
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED GLASS AND INSTALLATION DETAILS	10/19/2022	R.L.

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

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SLIDING GLASS DOOR – IMPACT 145" X 96" OXO FLANGE INSTALLATION DETAILS		
DRAWN: R.S.	DWG NO. 08-03088	REV A
SCALE NTS	DATE 04/18/17	SHEET 11 OF 11
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 10/19/2022



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 FL No.: 62514