

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

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. 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 NEEDED 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 6063-T6.
11. UNITS MUST BE GLAZED PER ASTM E1300.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
13. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. ALL FASTENERS TO BE CORROSION RESISTANT.
15. 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 .125" THICK MINIMUM

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WOJAN WINDOW & DOOR CORPORATION

217 STOVER ROAD
CHARLEVOIX, MI 49720

4500 FIXED-FIXED WINDOW OVER LOUVER
NON-IMPACT
NOTES

DRAWN:
R.L.

DWG NO.
08-04186

REV
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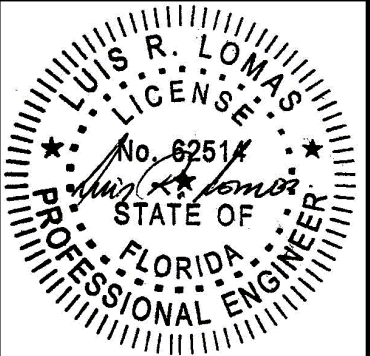
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DATE 12/01/25

SHEET 1 OF 12

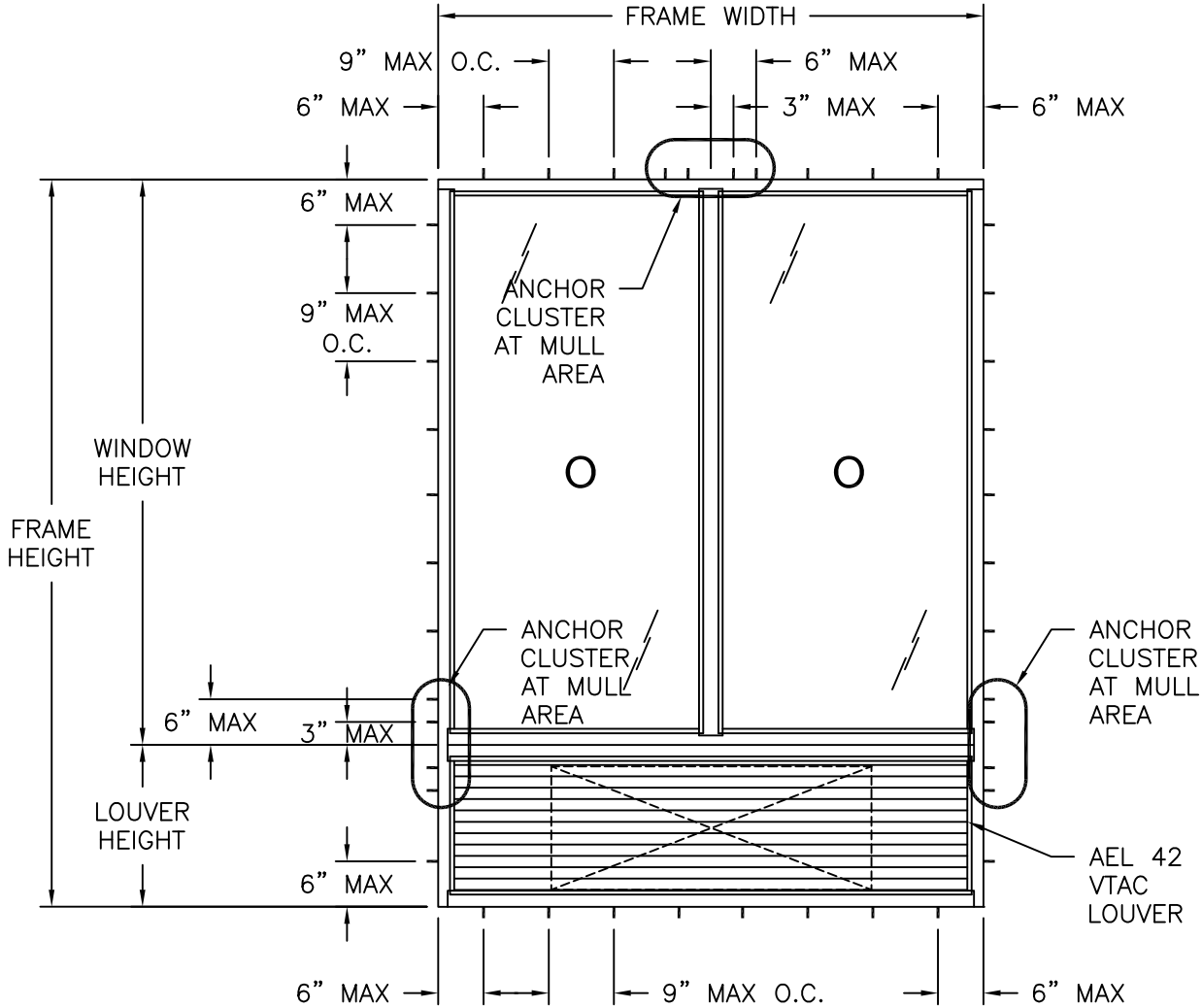
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/02/2025

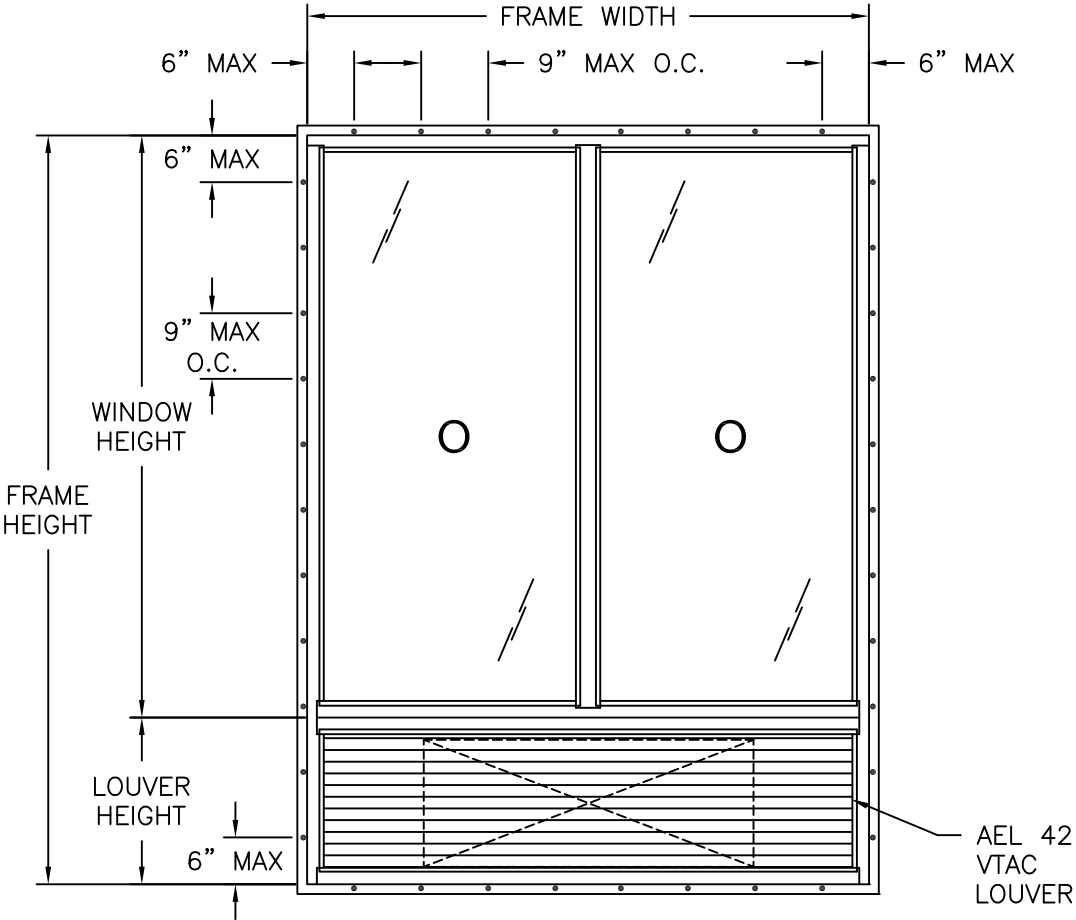


Luis R. Lomas P.E.
FL No.: 62514

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4500 FIXED-FIXED WINDOW OVER LOUVER
 EXTERIOR VIEW
 CLIP & FRAME INSTALLATION



4500 FIXED-FIXED WINDOW OVER LOUVER
 EXTERIOR VIEW
 FIN INSTALLATION INTO WOOD AND METAL STRUCTURE

Rating (psf)																
Height (in)			Frame width (in)													
			48.00		60.00		72.00		84.00		96.00		108.00		120.00	
Frame	Window	Louver	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
48.00	26.63	21.38	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	53.0	53.0	37.0	37.0	26.8	26.8
54.00	32.63	21.38	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	47.6	47.6	33.2	33.2	24.0	24.0
60.00	38.63	21.38	70.0	70.0	70.0	70.0	70.0	70.0	65.6	65.6	43.3	43.3	30.1	30.1	21.8	21.8
66.00	44.63	21.38	70.0	70.0	70.0	70.0	70.0	70.0	60.5	60.5	39.9	39.9	27.7	27.7	20.0	20.0
72.00	50.63	21.38	70.0	70.0	70.0	70.0	70.0	70.0	56.2	56.2	37.1	37.1	25.7	25.7	18.5	18.5
78.00	56.63	21.38	70.0	70.0	70.0	70.0	70.0	70.0	52.5	52.5	34.7	34.7	24.0	24.0	17.3	17.3
84.00	62.63	21.38	70.0	70.0	70.0	70.0	70.0	70.0	49.2	49.2	32.6	32.6	22.6	22.6	16.3	16.3
90.00	68.63	21.38	70.0	70.0	70.0	70.0	70.0	70.0	46.4	46.4	30.7	30.7	21.3	21.3	15.3	15.3
95.25	73.88	21.38	70.0	70.0	70.0	70.0	60.1	60.1	44.1	44.1	29.2	29.2	20.3	20.3	-	-
96.00	74.63	21.38	70.0	70.0	67.8	67.8	58.2	58.2	43.8	43.8	29.0	29.0	20.1	20.1	-	-
102.00	80.63	21.38	65.3	65.3	53.3	53.3	45.5	45.5	40.2	40.2	27.5	27.5	19.1	19.1	-	-
108.00	86.63	21.38	52.4	52.4	42.6	42.6	36.3	36.3	31.9	31.9	26.1	26.1	18.2	18.2	-	-

WOJAN WINDOW & DOOR CORPORATION

217 STOVER ROAD

CHARLEVOIX, MI 49720

4500 FIXED-FIXED WINDOW OVER LOUVER

NON-IMPACT

ELEVATIONS

DRAWN: R.L.

DWG NO. 08-04186

REV -

SCALE NTS

DATE 12/01/25

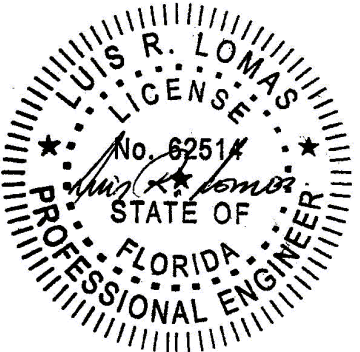
SHEET 2 OF 12

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

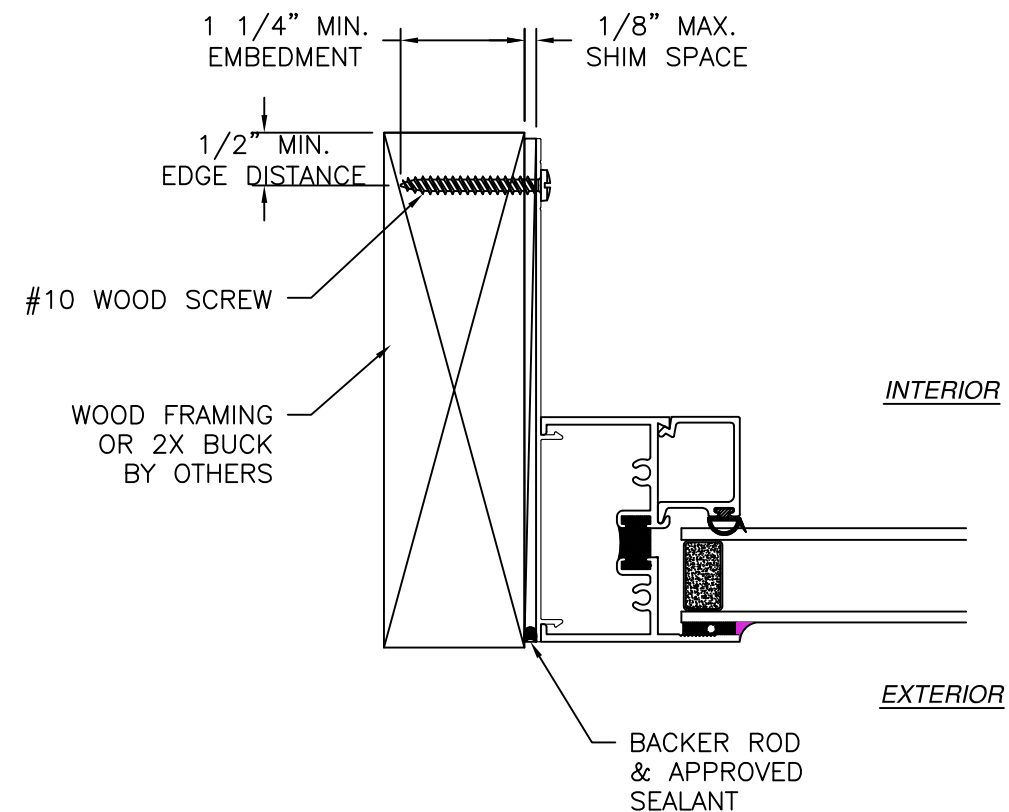
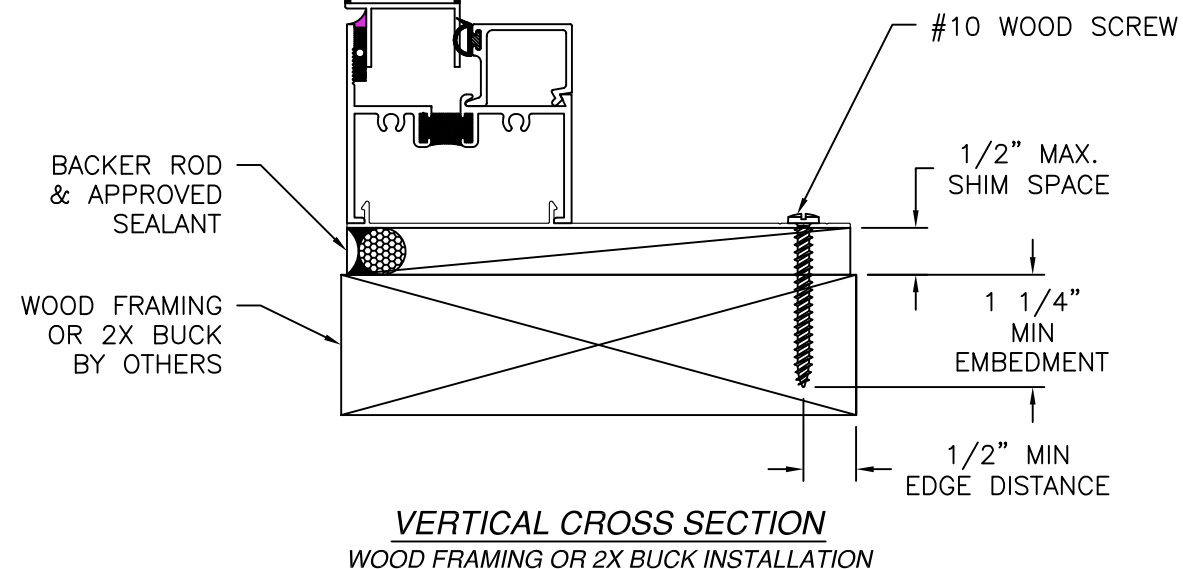
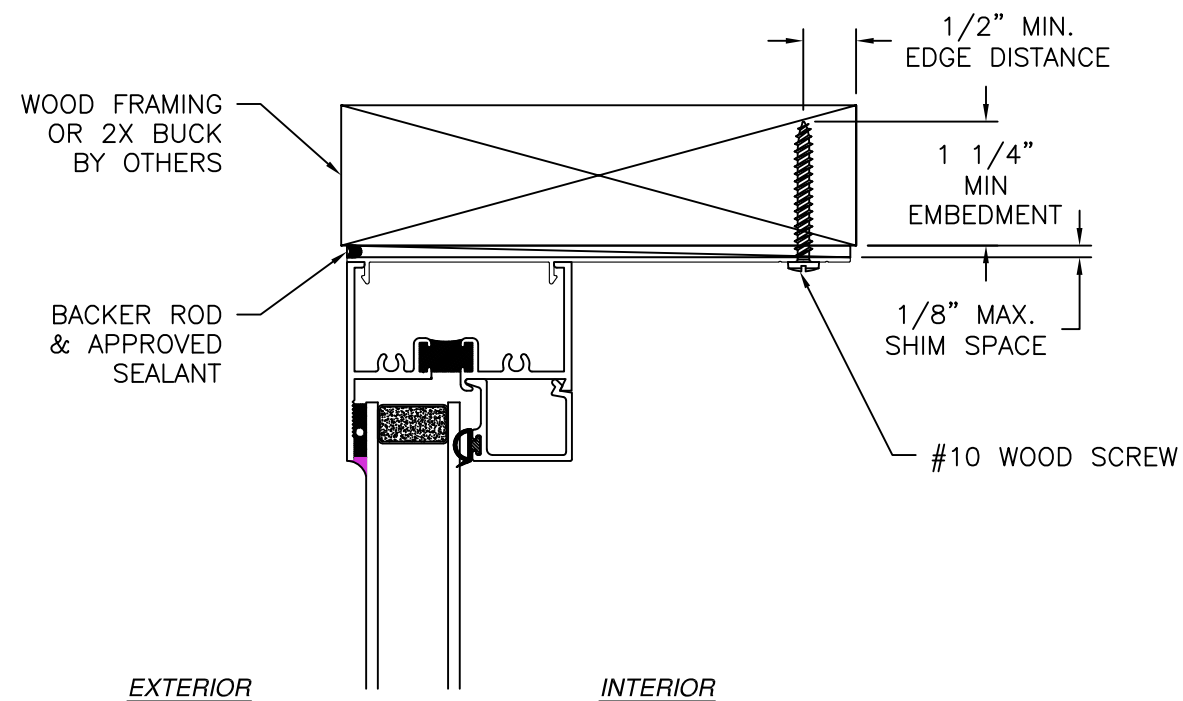
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/02/2025



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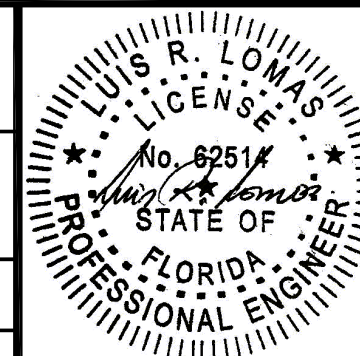


JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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

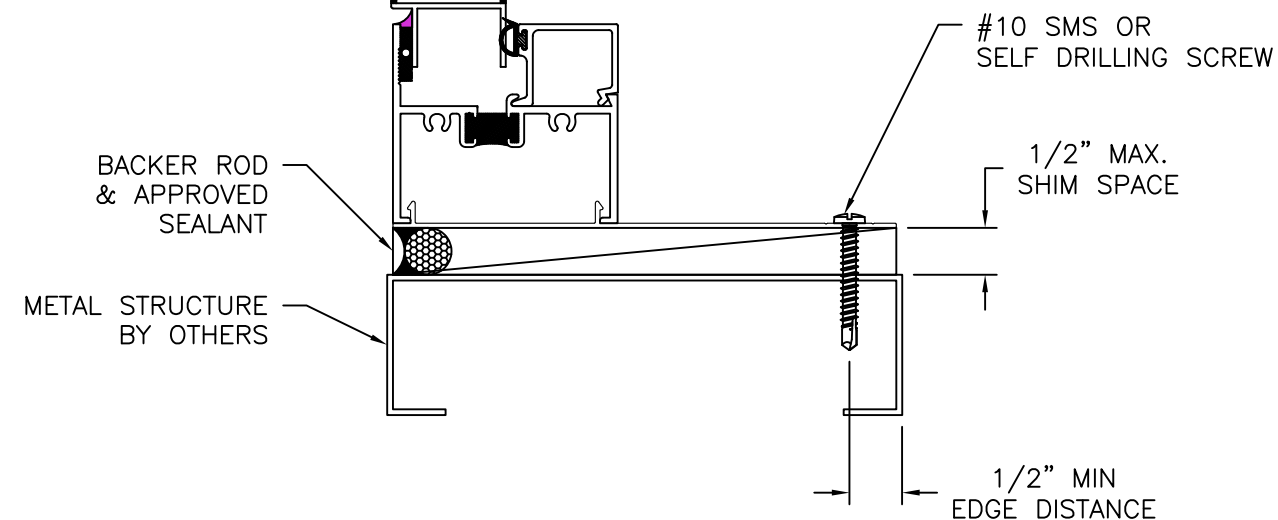
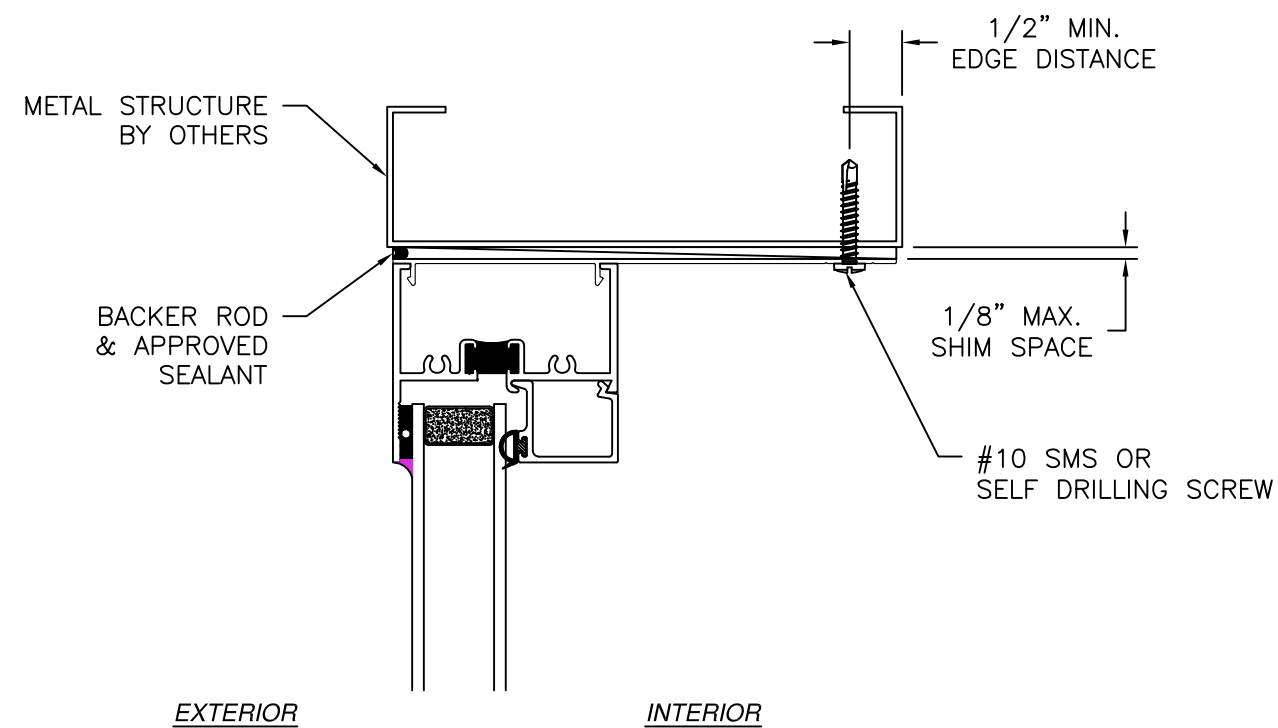
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WOJAN WINDOW & DOOR CORPORATION 217 STOVER ROAD CHARLEVOIX, MI 49720		
4500 FIXED-FIXED WINDOW OVER LOUVER NON-IMPACT INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-04186	REV -
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L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		

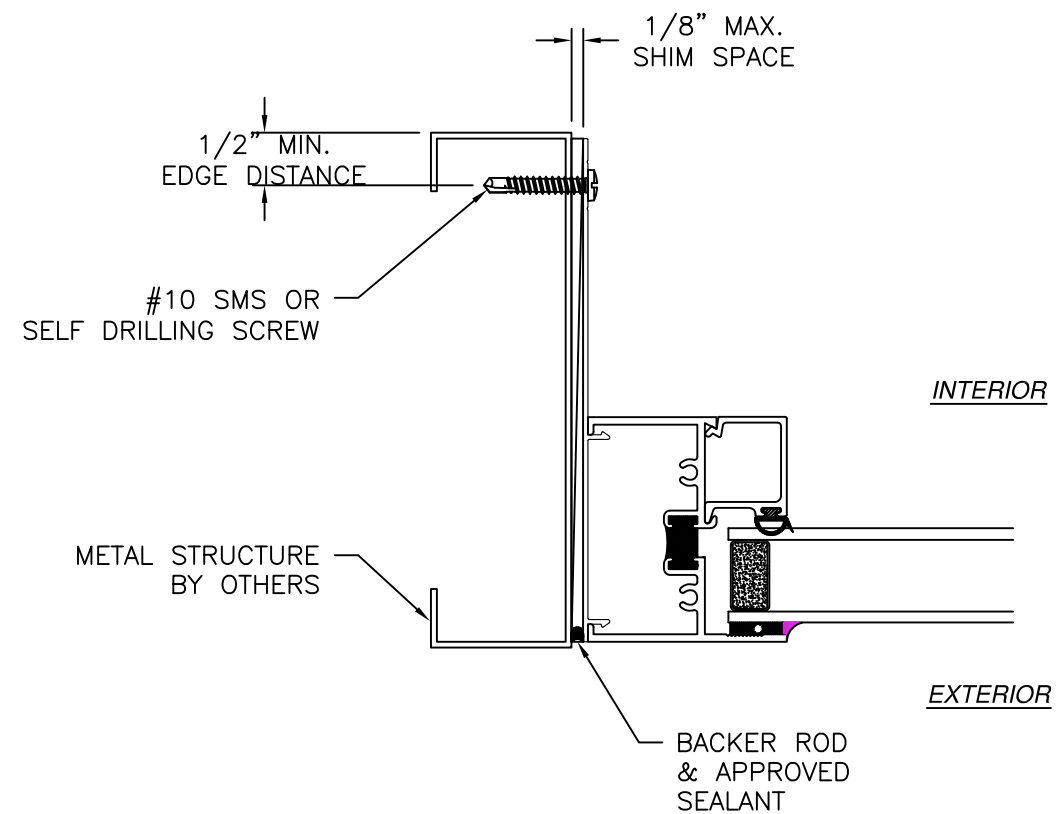


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

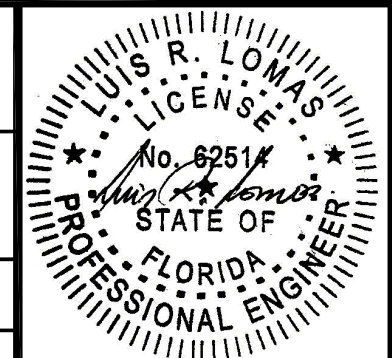


JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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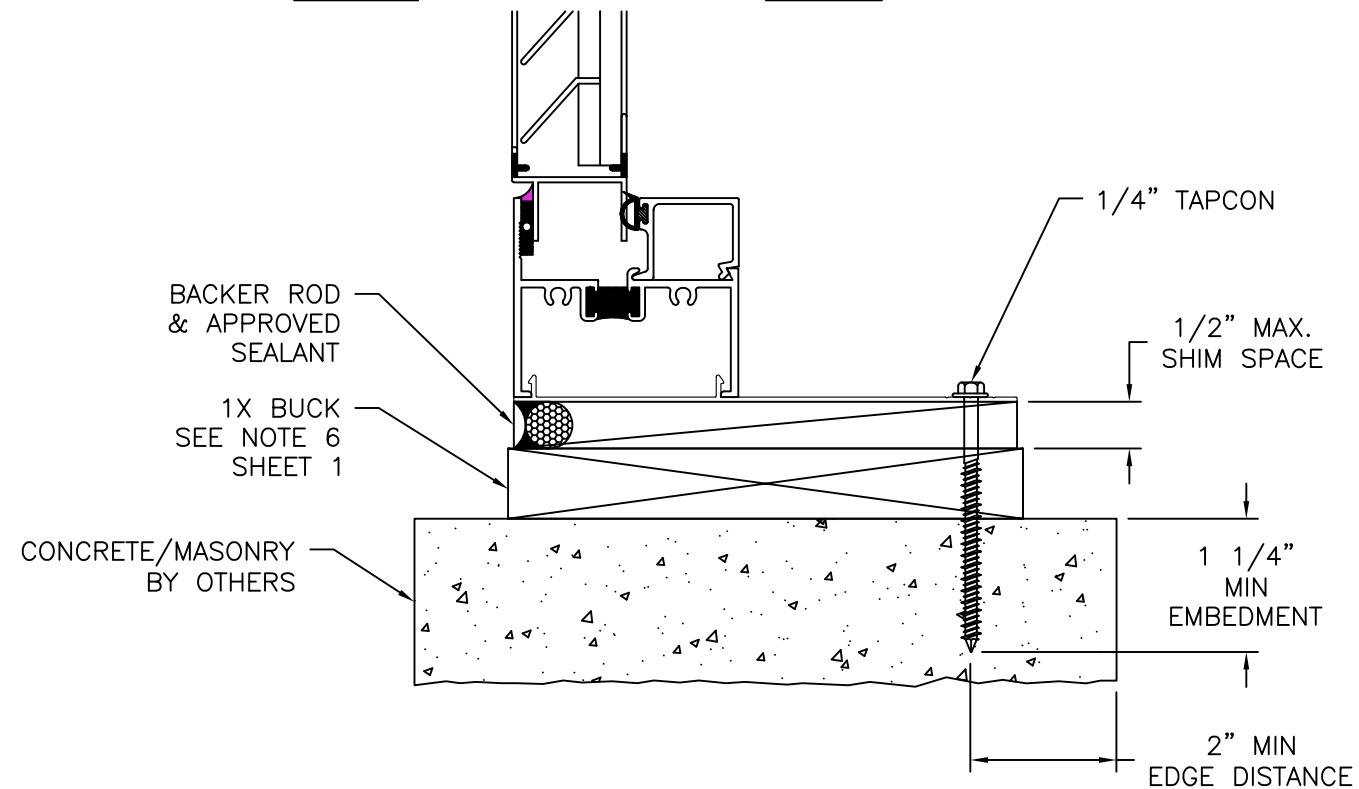
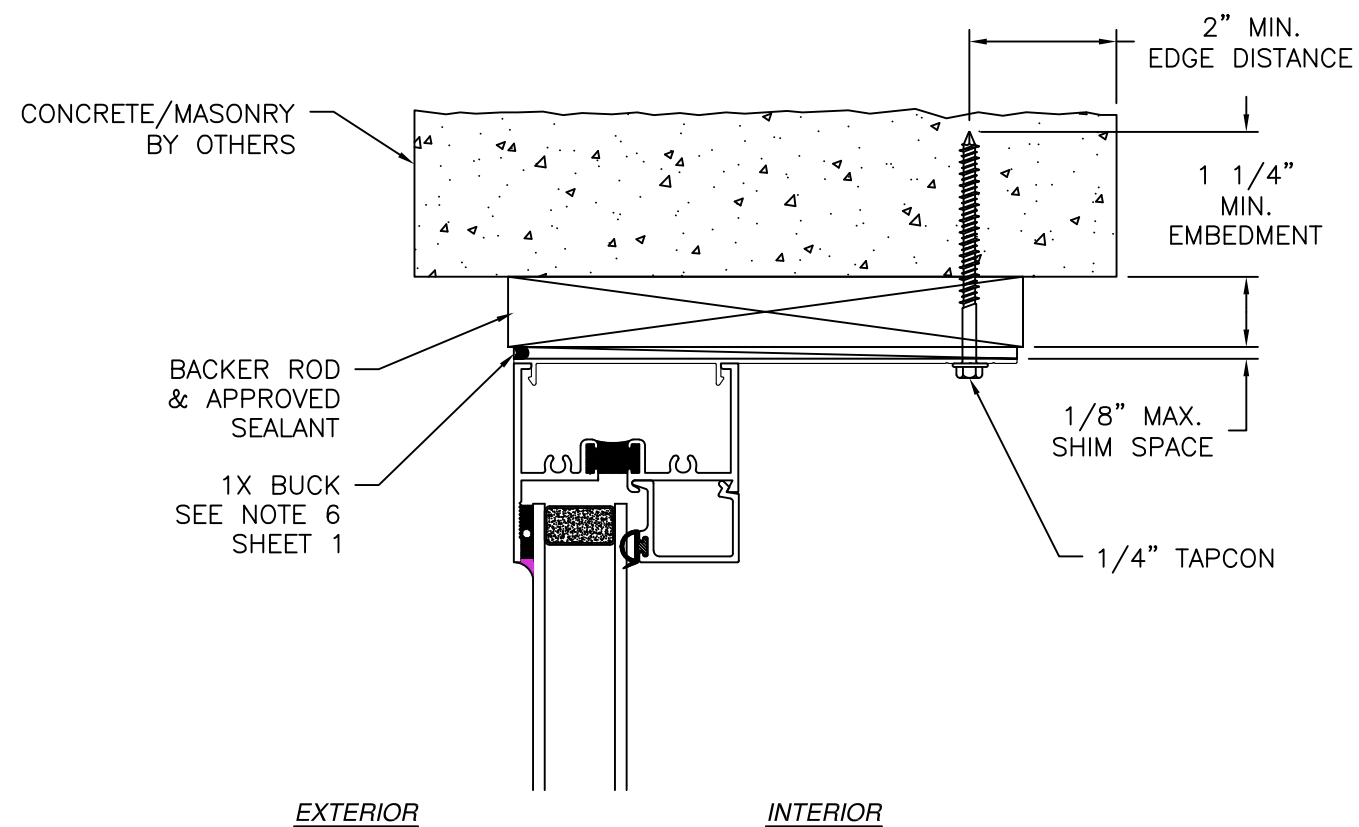
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L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

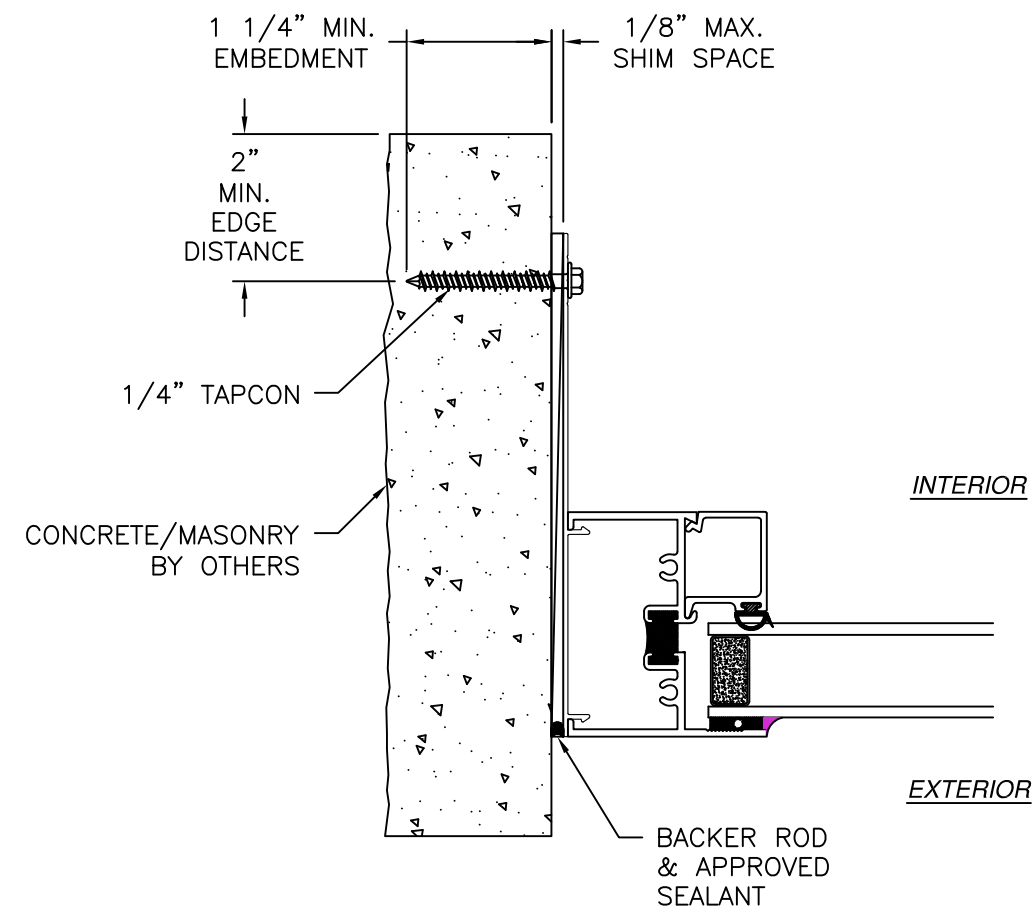


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VERTICAL CROSS SECTION
 CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
 FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
 JAMB INSTALLATION DETAIL

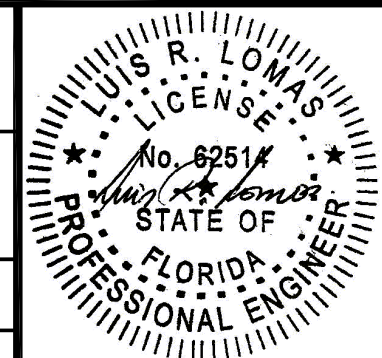


JAMB INSTALLATION DETAIL
 CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
 FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
 HEAD AND SILL INSTALLATION DETAILS

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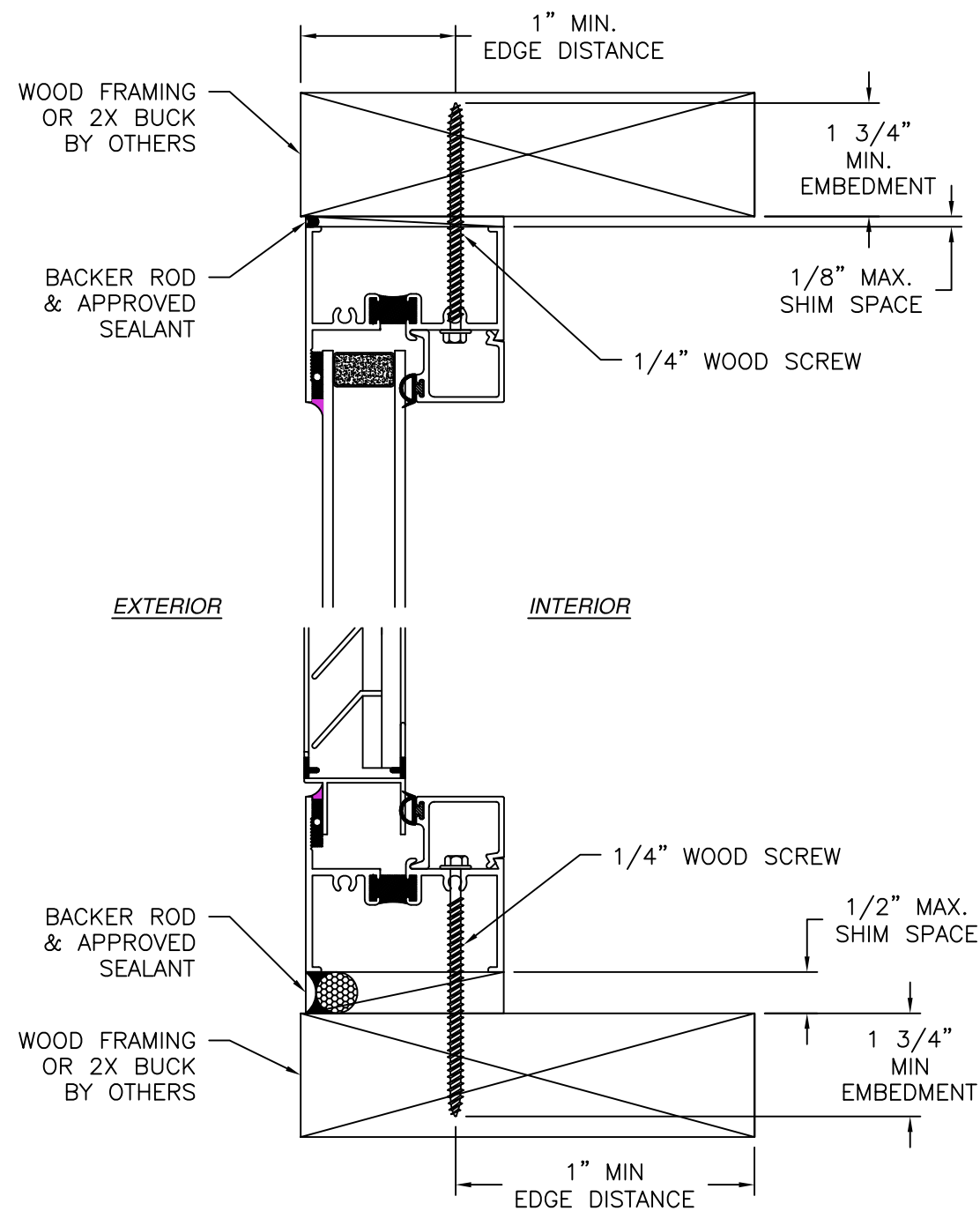
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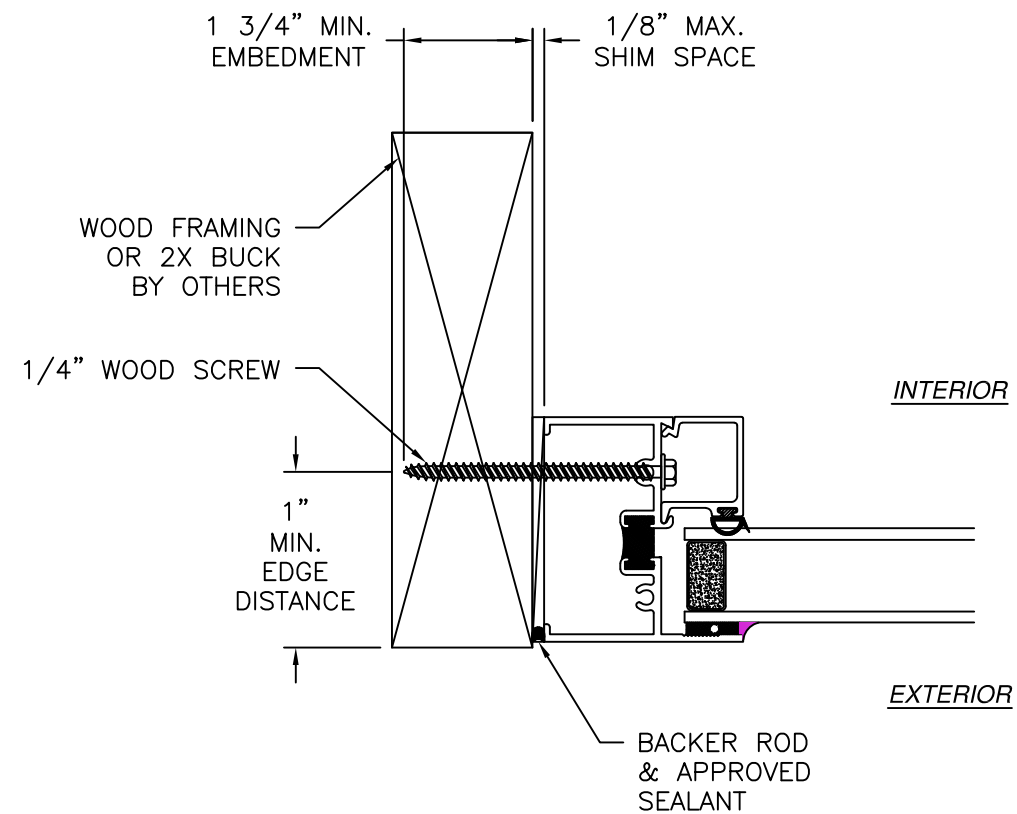


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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

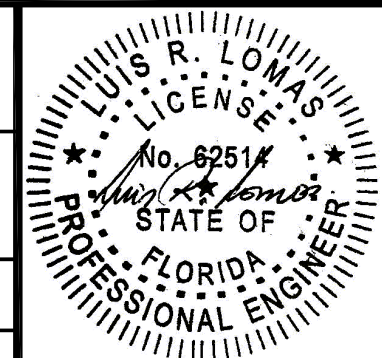


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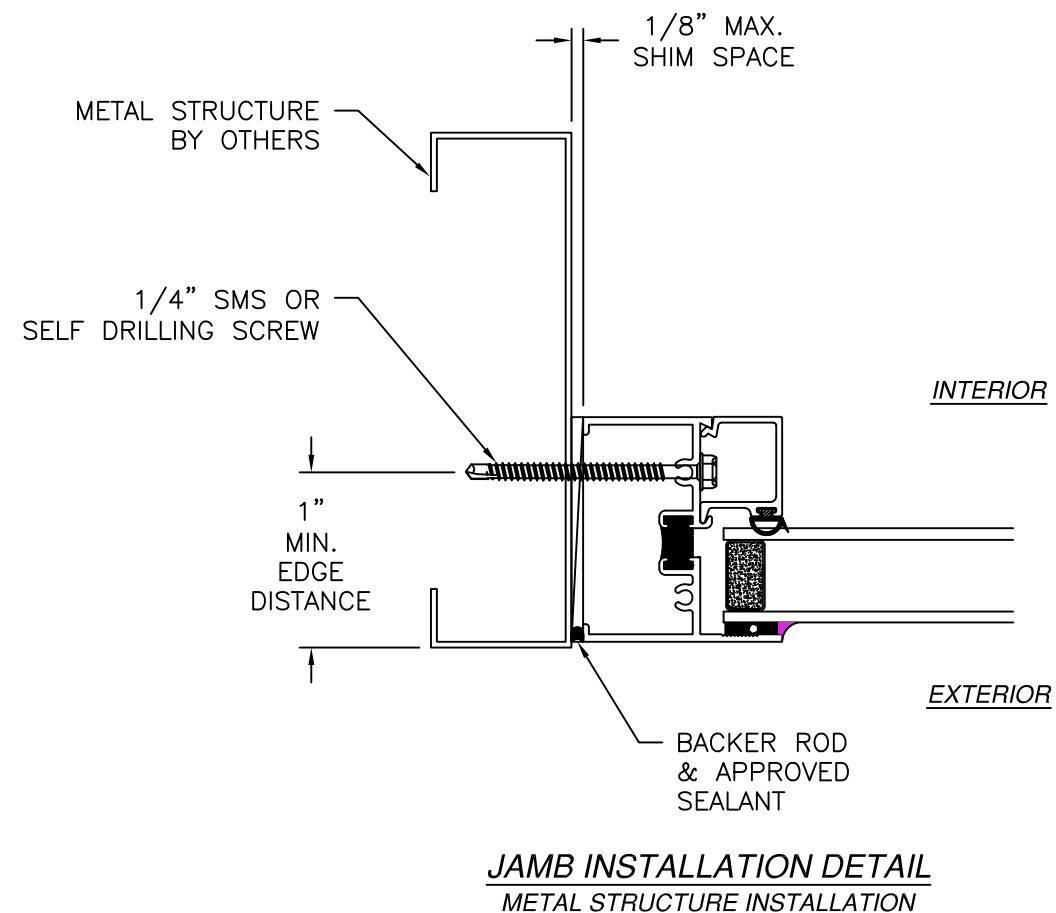
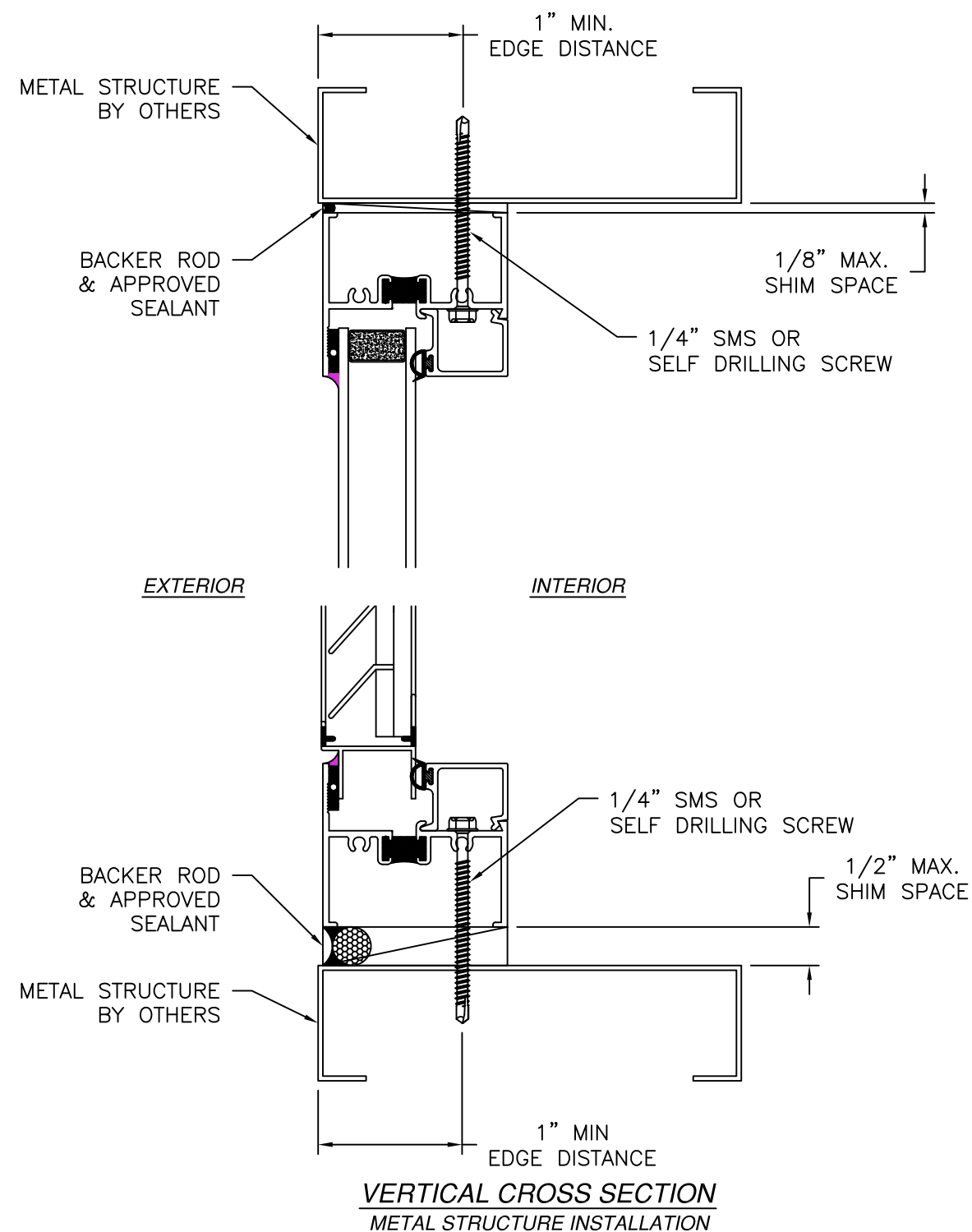
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4500 FIXED-FIXED WINDOW OVER LOUVER NON-IMPACT INSTALLATION DETAILS		
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L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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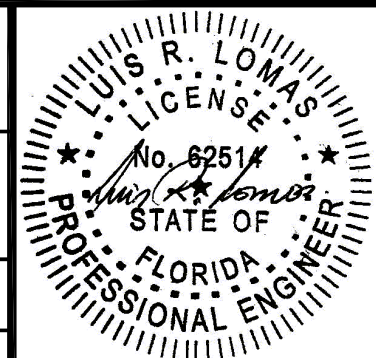
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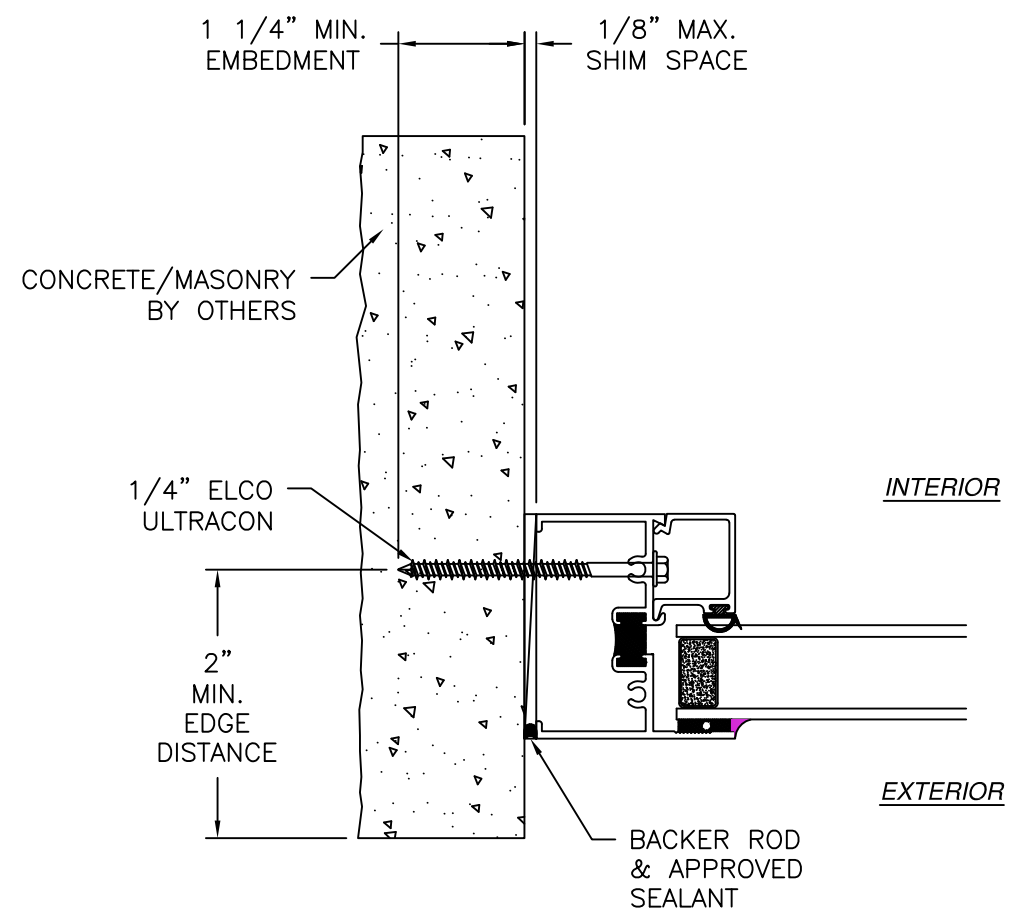
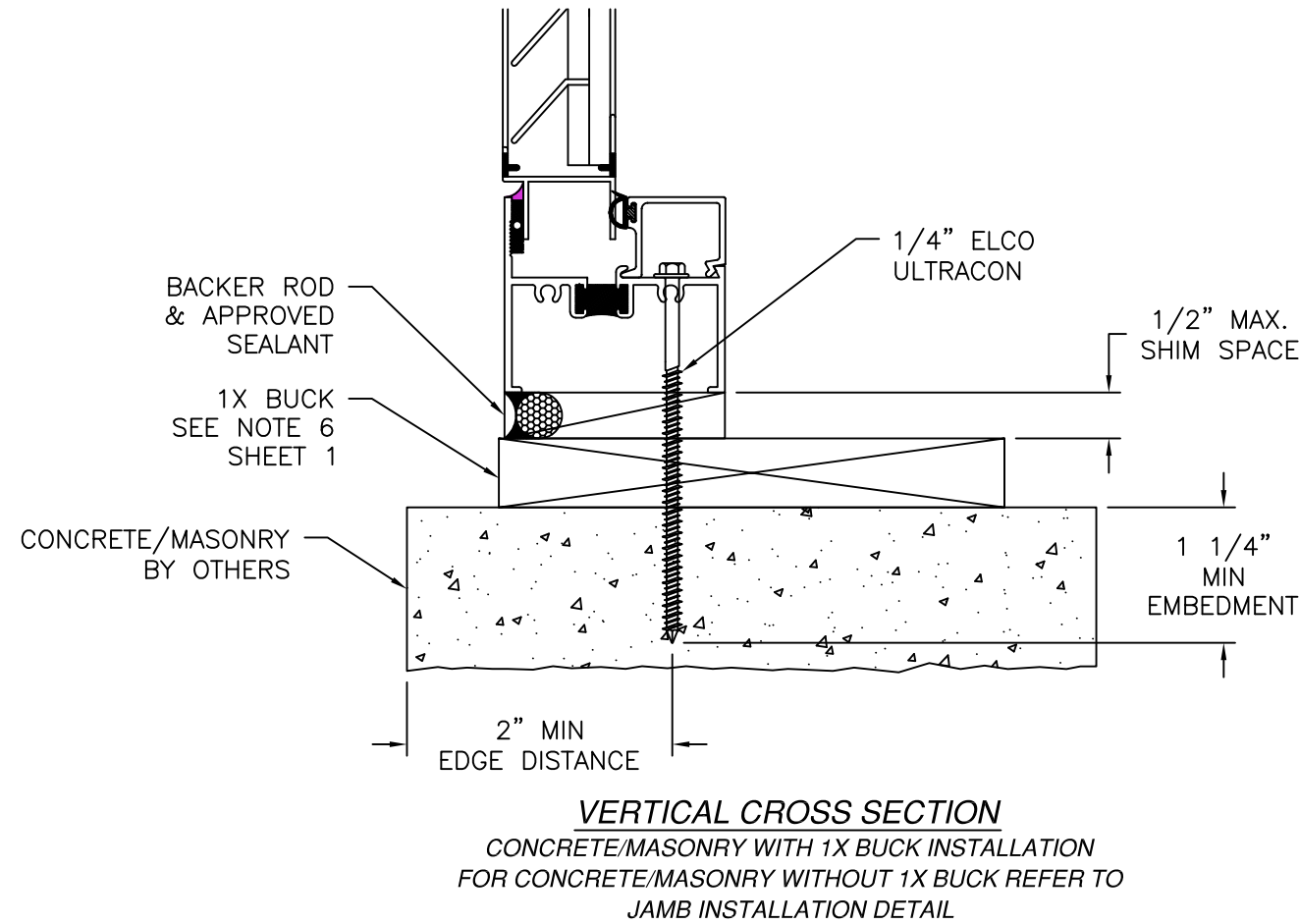
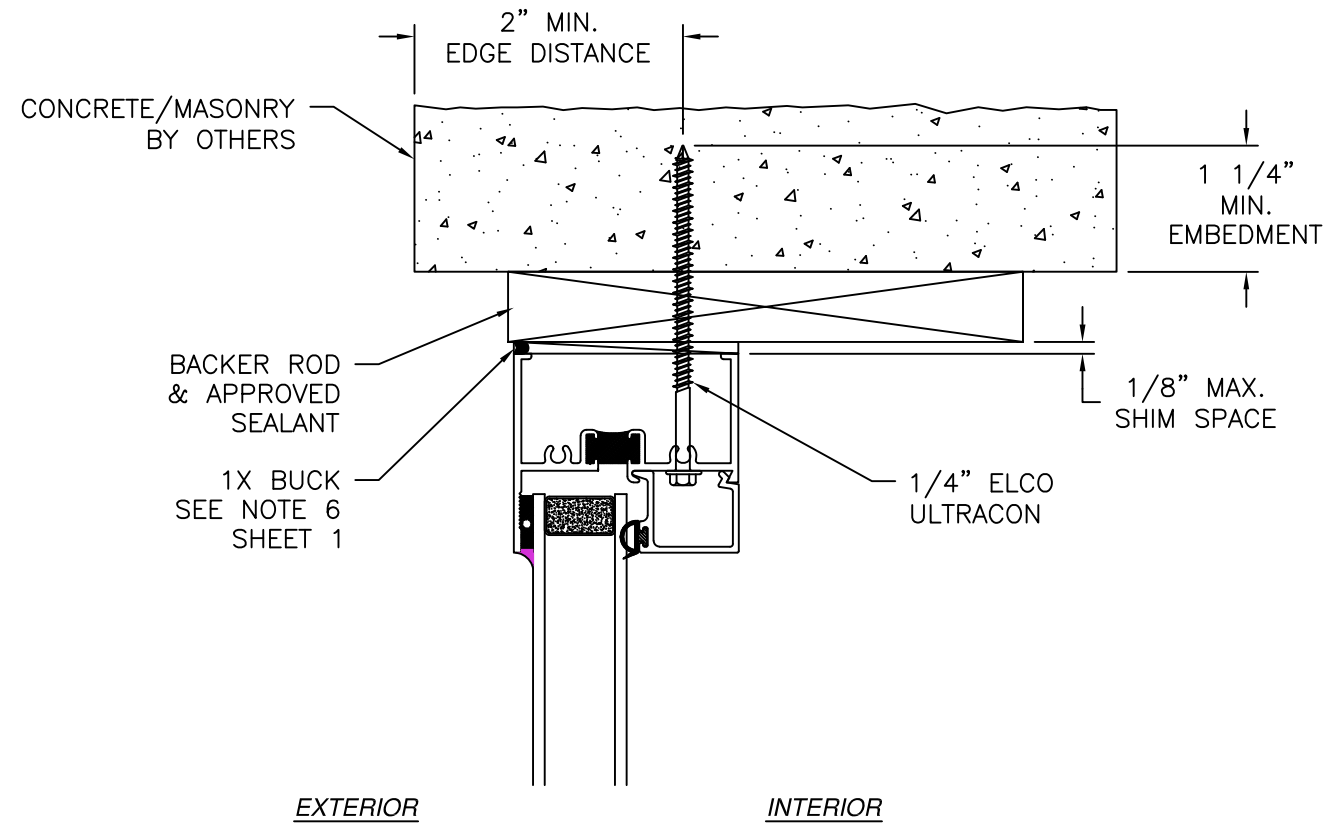
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WOJAN WINDOW & DOOR CORPORATION 217 STOVER ROAD CHARLEVOIX, MI 49720		
4500 FIXED-FIXED WINDOW OVER LOUVER NON-IMPACT INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-04186	REV -
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L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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JAMB INSTALLATION DETAIL
 CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
 FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
 HEAD AND SILL INSTALLATION DETAILS

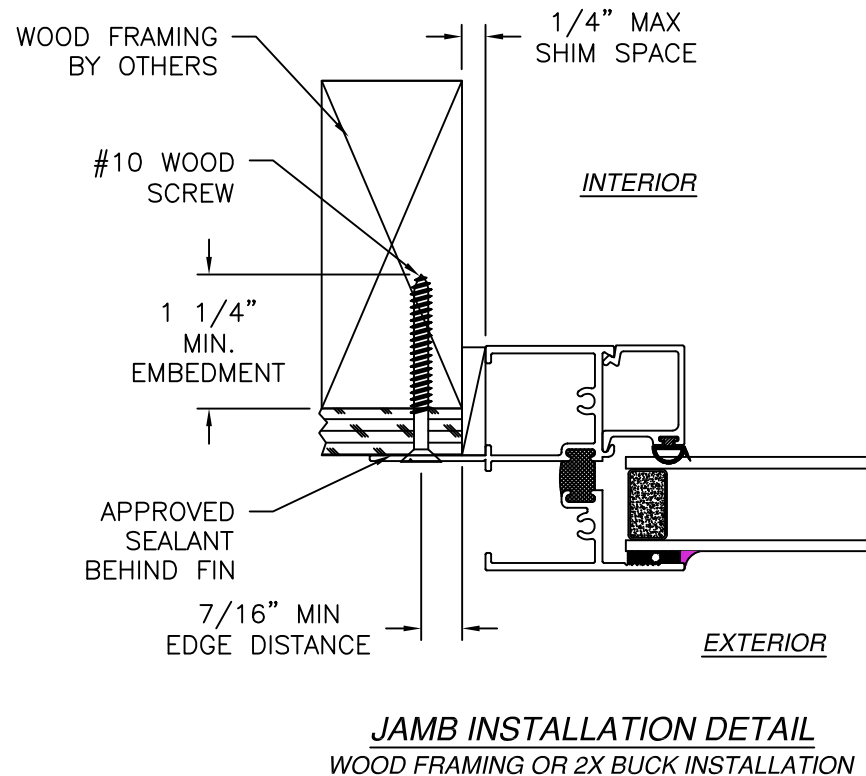
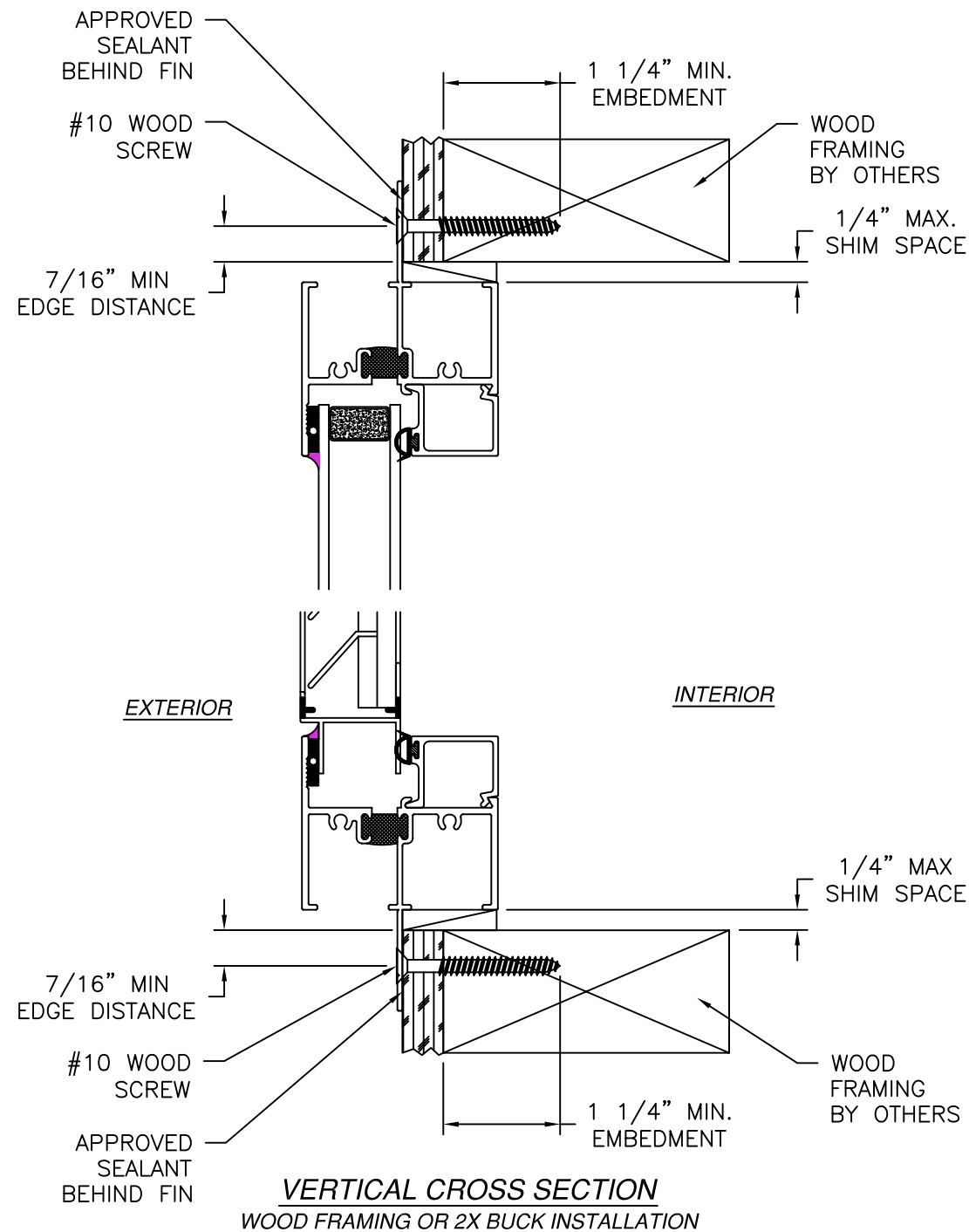
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L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

LUIS R. LOMAS
 LICENSE
 No. 62514
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

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

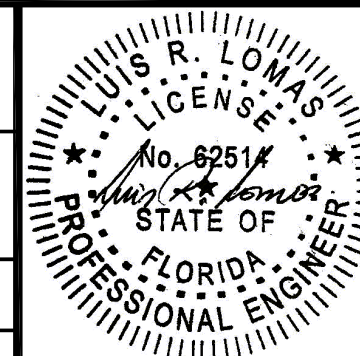


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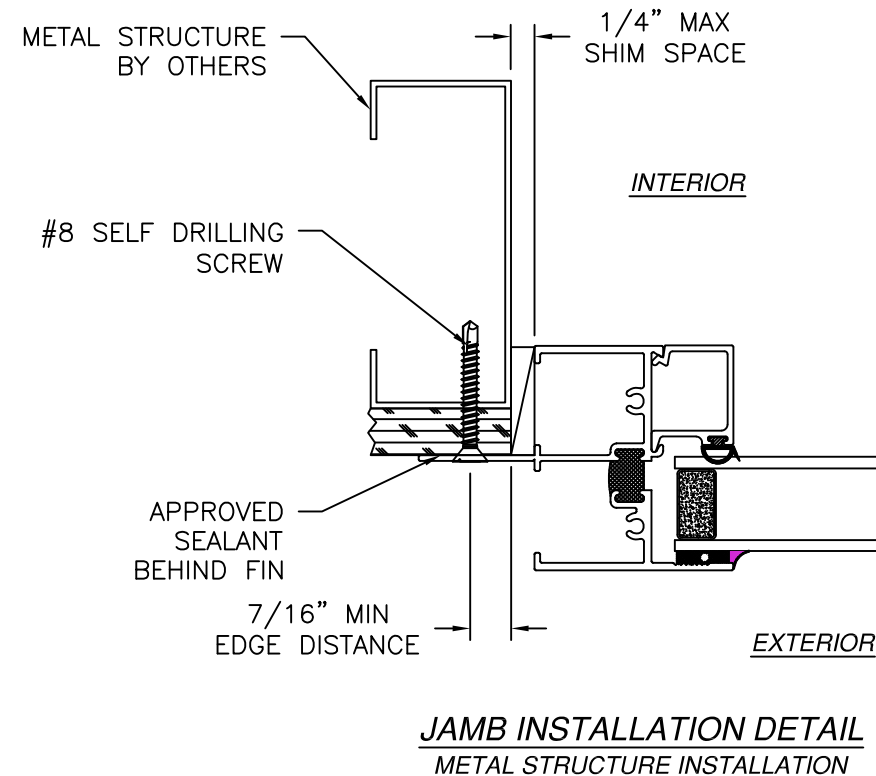
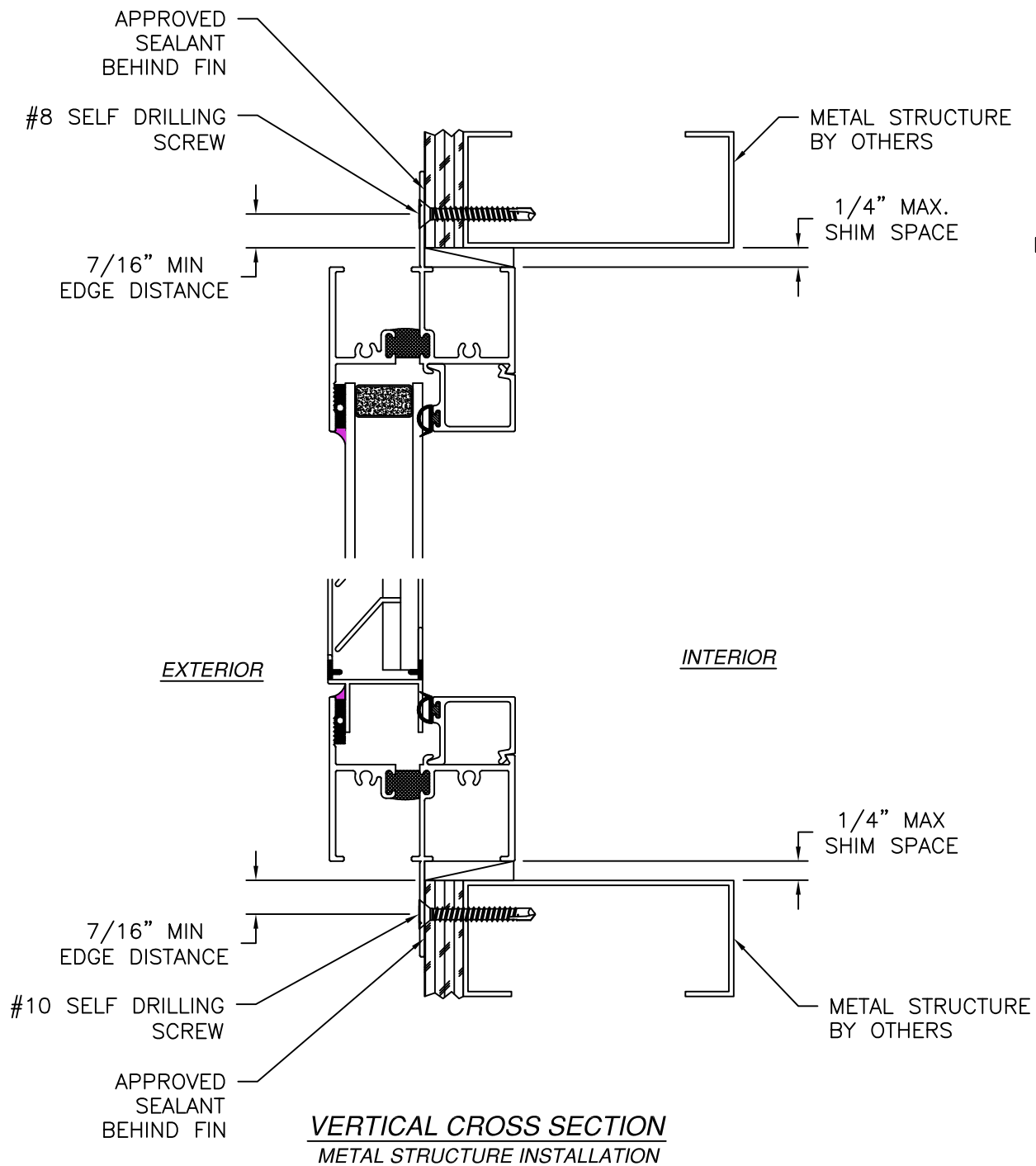
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217 STOVER ROAD
CHARLEVOIX, MI 49720

4500 FIXED-FIXED WINDOW OVER LOUVER
NON-IMPACT
INSTALLATION DETAILS

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DWG NO.

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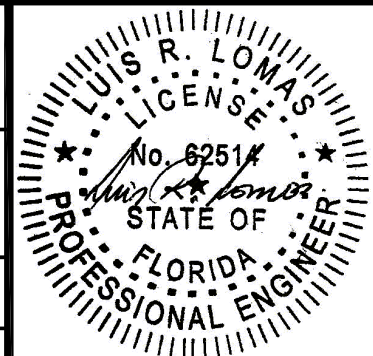
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10 OF 12

L. ROBERTO LOMAS P.E.

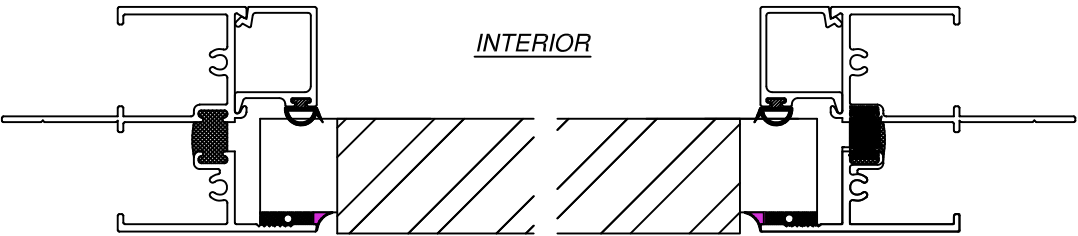
208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

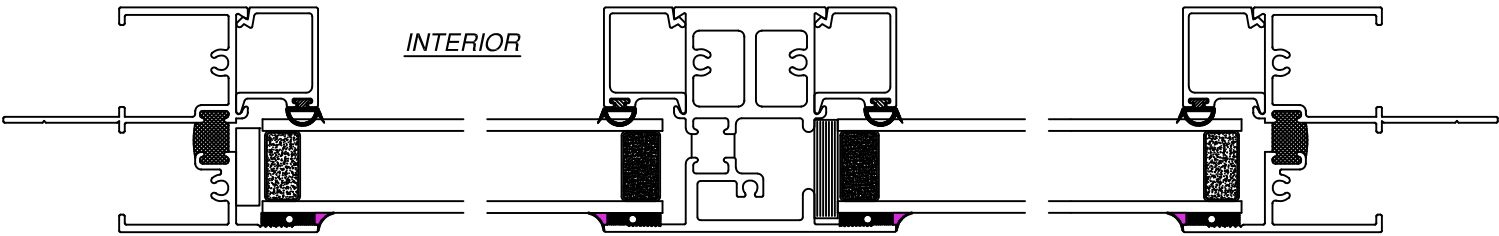


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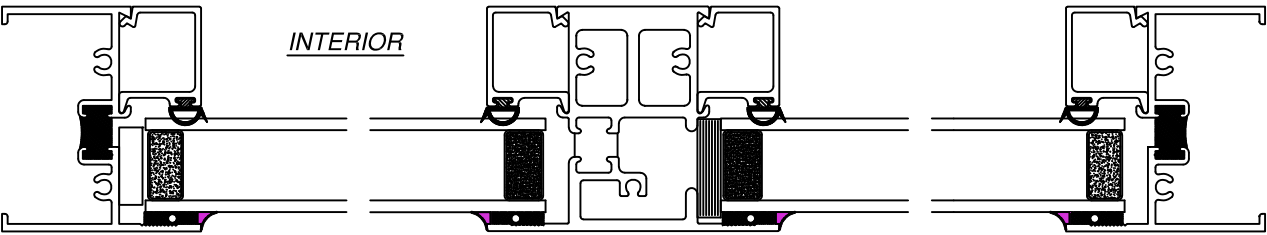
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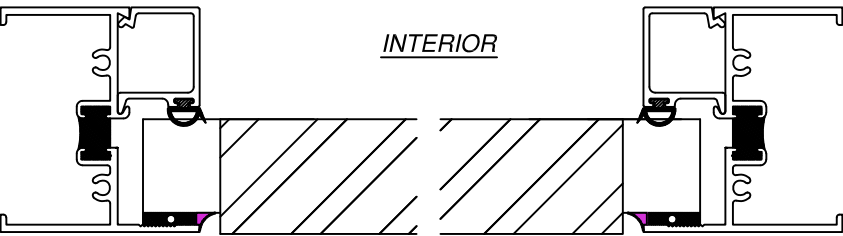
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FIN INSTALLATION



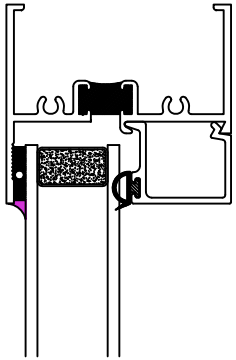
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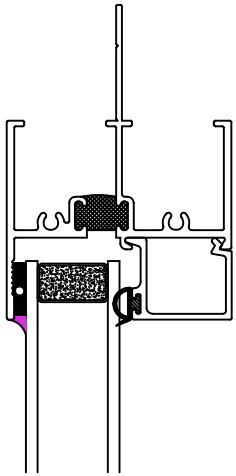
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CLIP & FRAME INSTALLATION



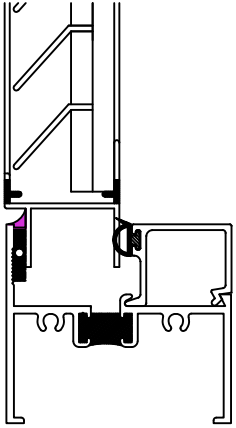
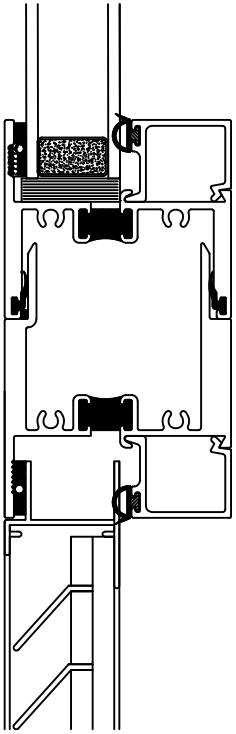
HORIZONTAL CROSS SECTION AT LOUVER
CLIP & FRAME INSTALLATION



VERTICAL
CROSS SECTION
CLIP & FRAME INSTALLATION



VERTICAL
CROSS SECTION
FIN INSTALLATION



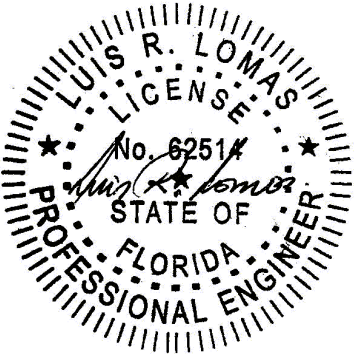
WOJAN WINDOW & DOOR CORPORATION
217 STOVER ROAD
CHARLEVOIX, MI 49720

4500 FIXED-FIXED WINDOW OVER LOUVER
NON-IMPACT
CROSS SECTIONS

DRAWN: R.L.	DWG NO. 08-04186	REV -
SCALE NTS	DATE 12/01/25	SHEET 11 OF 12

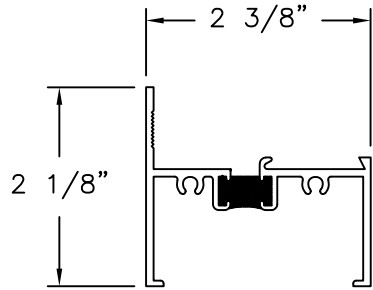
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/02/2025

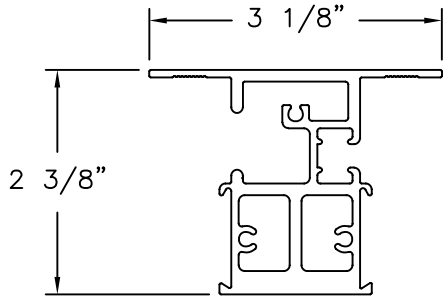


Luis R. Lomas P.E.
FL No.: 62514

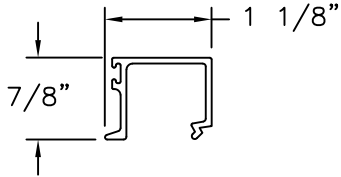
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



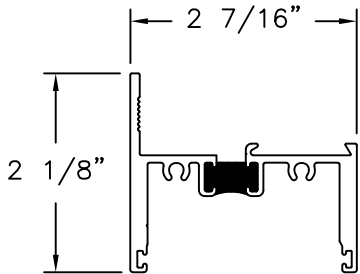
MAIN FRAME
ALUMINUM 6063-T6



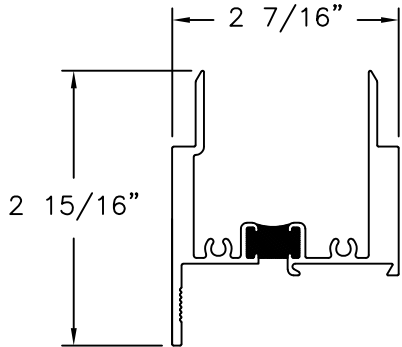
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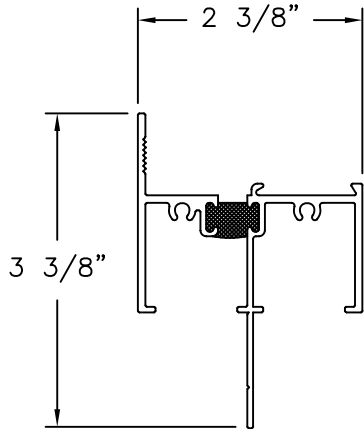
GLAZING BEAD
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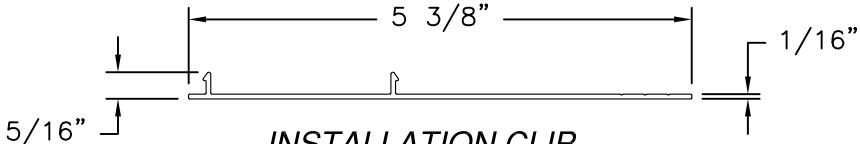
**HEAVY DUTY SELF MULL
FEMALE**
ALUMINUM 6063-T6



**HEAVY DUTY SELF MULL
MALE**
ALUMINUM 6063-T6



FIN FRAME
ALUMINUM 6063-T6



INSTALLATION CLIP
ALUMINUM 6063-T6

SIGNED: 12/02/2025

WOJAN WINDOW & DOOR CORPORATION

217 STOVER ROAD

CHARLEVOIX, MI 49720

4500 FIXED-FIXED WINDOW OVER LOUVER

NON-IMPACT

COMPONENTS

DRAWN:

R.L.

DWG NO.

08-04186

REV

-

SCALE

NTS

DATE

12/01/25

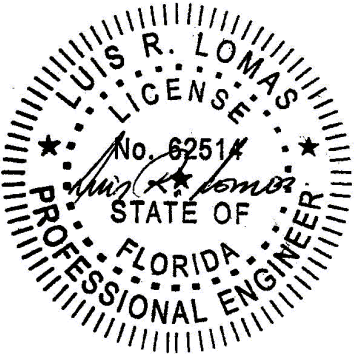
SHEET

12 OF 12

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