

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED TO ADD PVC FRAME	04/23/2025	R.L.

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. FOR ANCHORING 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 INTO MASONRY/CONCRETE USE 1/4” TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING 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. FOR ANCHORING TO PVC WINDOW USE 1/4” SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
17. ALL FASTENERS TO BE CORROSION RESISTANT.
18. 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
19. VERTICAL MULLION CONFIGURATION IS SHOWN, UNITS ARE QUALIFIED TO BE INSTALLED HORIZONTALLY.

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WOJAN WINDOW & DOOR CORPORATION

217 STOVER ROAD

CHARLEVOIX, MI 49720

4500 FIXED–FIXED WINDOW

NON–IMPACT

NOTES

DRAWN:

A.R.

DWG NO.

08–04125A

REV

A

SCALE

NTS

DATE

02/27/2025

SHEET

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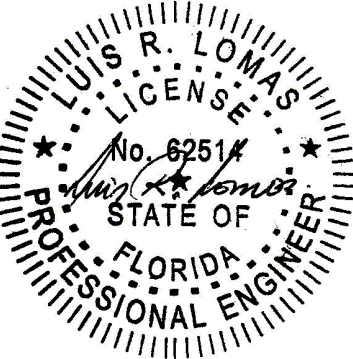
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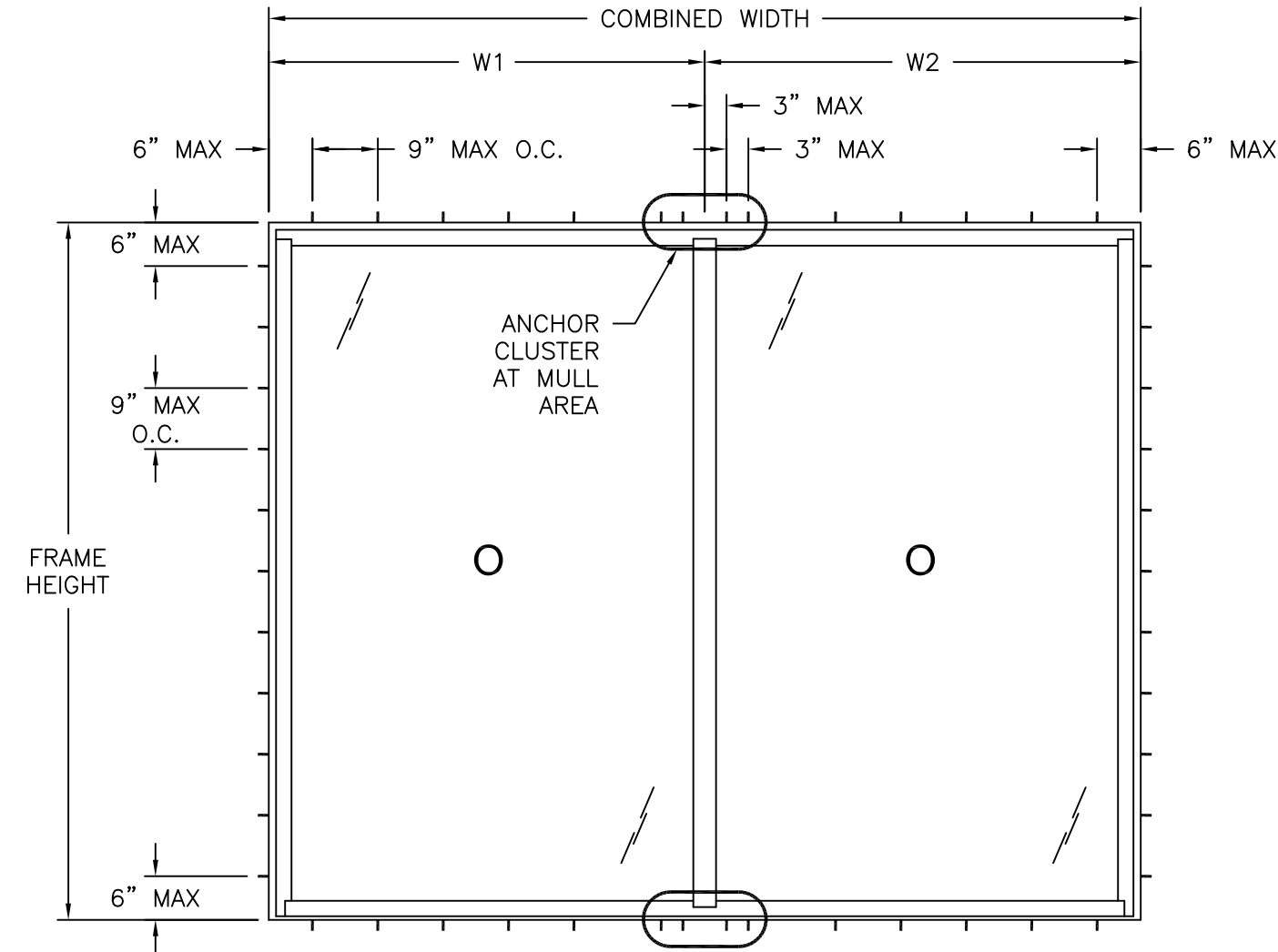
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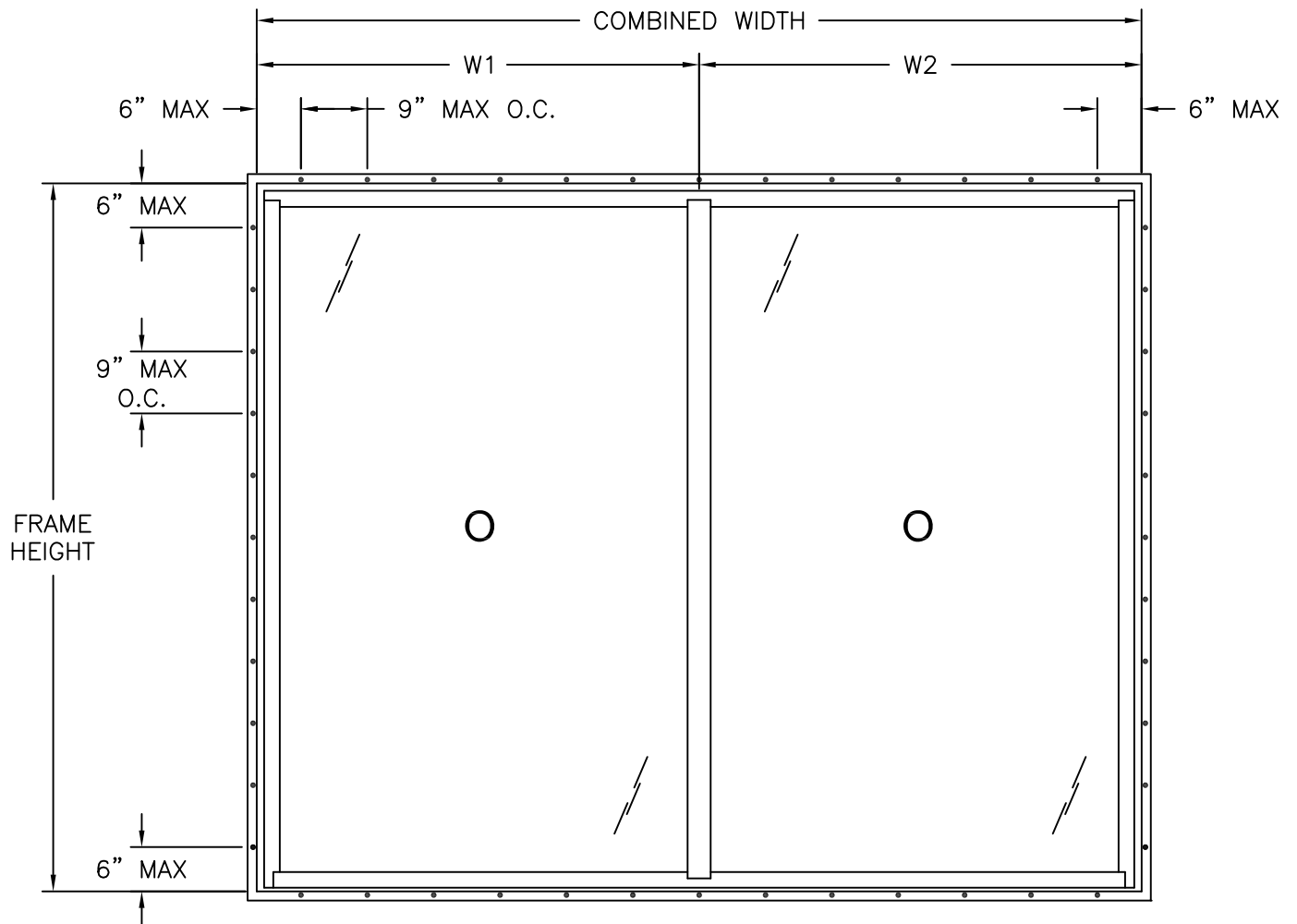
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4500 FIXED-FIXED WINDOW
EXTERIOR VIEW
CLIP INSTALLATION



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

Chart #1
Mulled unit Rating (psf)

Frame Height (in)	Tributary width (in)													
	24.0		30.0		36.0		42.0		48.0		54.0		60.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
30.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
36.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
42.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
48.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
54.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
60.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	96.6	80.0	95.4
66.0	80.0	100.0	80.0	99.8	80.0	86.5	77.6	77.6	71.7	71.7	68.0	68.0	65.9	65.9
72.0	80.0	92.4	75.9	75.9	65.3	65.3	58.1	58.1	53.2	53.2	49.9	49.9	47.7	47.7
78.0	72.2	72.2	59.0	59.0	50.5	50.5	44.7	44.7	40.7	40.7	37.8	37.8	35.8	35.8
84.0	57.5	57.5	46.9	46.9	40.0	40.0	35.2	35.2	31.8	31.8	29.4	29.4	27.6	27.6
90.0	46.6	46.6	37.9	37.9	32.2	32.2	28.3	28.3	25.4	25.4	23.3	23.3	21.8	21.8
96.0	38.2	38.2	31.0	31.0	26.3	26.3	23.0	23.0	20.7	20.7	18.9	18.9	17.5	17.5
99.0	34.8	34.8	28.2	28.2	23.9	23.9	20.9	20.9	18.7	18.7	17.1	17.1	-	-

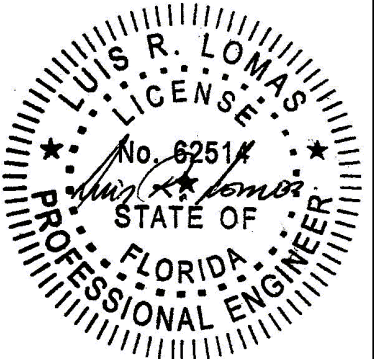
Non-impact

- DESIGN PRESSURE TABLE INSTRUCTIONS:
1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
 2. DETERMINE TRIBUTARY WIDTH AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY WIDTH.
 3. LOCATE MULLION SPAN (FRAME HEIGHT) AND TRIBUTARY WIDTH. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$

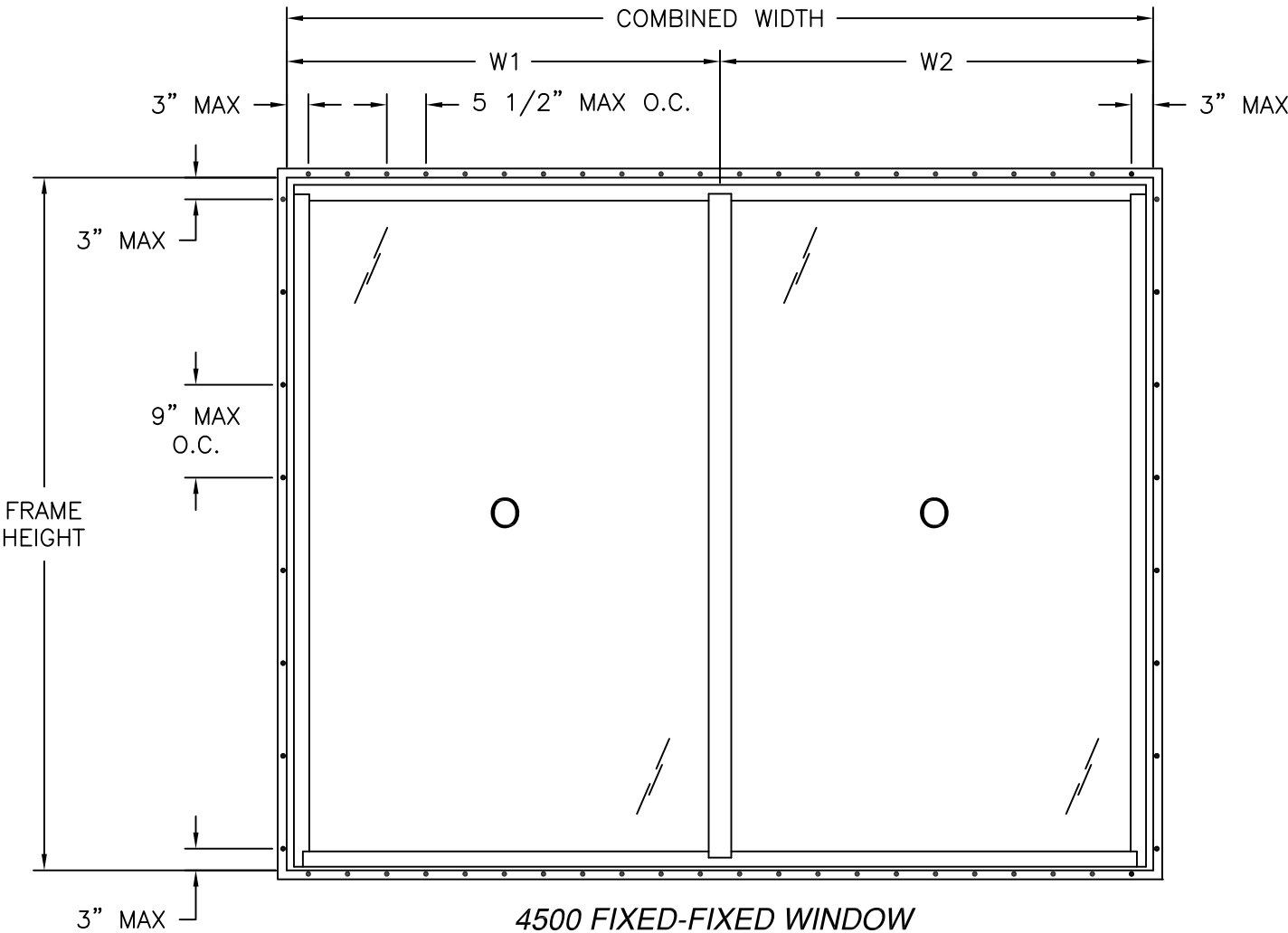
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WOJAN WINDOW & DOOR CORPORATION		
217 STOVER ROAD CHARLEVOIX, MI 49720		
4500 FIXED-FIXED WINDOW NON-IMPACT ELEVATIONS		
DRAWN: A.R.	DWG NO. 08-04125A	REV A
SCALE NTS	DATE 02/27/2025	SHEET 2 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		



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4500 FIXED-FIXED WINDOW
EXTERIOR VIEW
FIN INSTALLATION INTO PVC FRAME

DESIGN PRESSURE RATING	IMPACT RATING
±60.0PSF	NONE

WITH & WITHOUT WATER PENETRATION RESISTANCE
FOR ADDITIONAL SIZES SEE CHART #2, THIS SHEET

Chart #2
Mulled units installed in PVC frame, Rating (psf)

Frame Height (in)	Tributary width (in)													
	24.0		30.0		36.0		42.0		48.0		54.0		60.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
30.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
36.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
42.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
48.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
54.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
66.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
72.0	60.0	60.0	60.0	60.0	60.0	60.0	58.1	58.1	53.2	53.2	49.9	49.9	47.7	47.7
78.0	60.0	60.0	59.0	59.0	50.5	50.5	44.7	44.7	40.7	40.7	37.8	37.8	35.8	35.8
84.0	57.5	57.5	46.9	46.9	40.0	40.0	35.2	35.2	31.8	31.8	29.4	29.4	27.6	27.6
90.0	46.6	46.6	37.9	37.9	32.2	32.2	28.3	28.3	25.4	25.4	23.3	23.3	21.8	21.8
96.0	38.2	38.2	31.0	31.0	26.3	26.3	23.0	23.0	20.7	20.7	18.9	18.9	17.5	17.5
99.0	34.8	34.8	28.2	28.2	23.9	23.9	20.9	20.9	18.7	18.7	17.1	17.1	-	-

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

4500 FIXED-FIXED WINDOW
NON-IMPACT
ELEVATIONS

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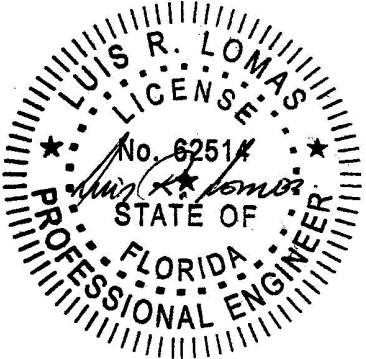
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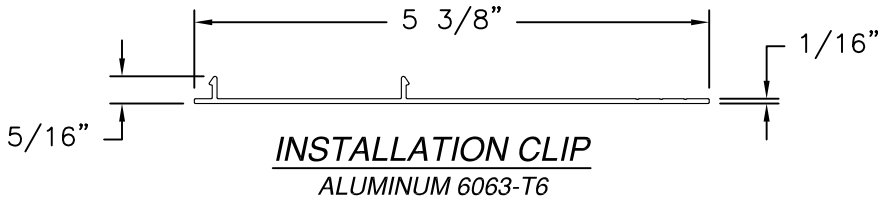
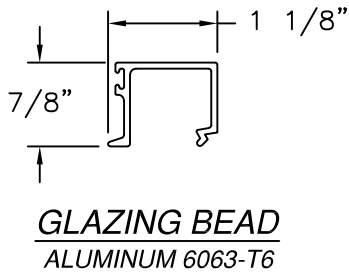
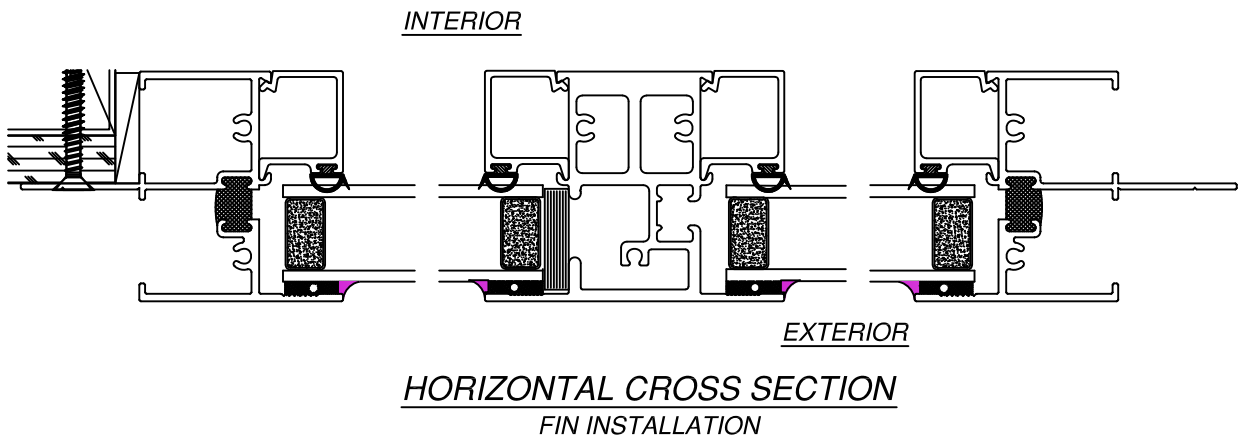
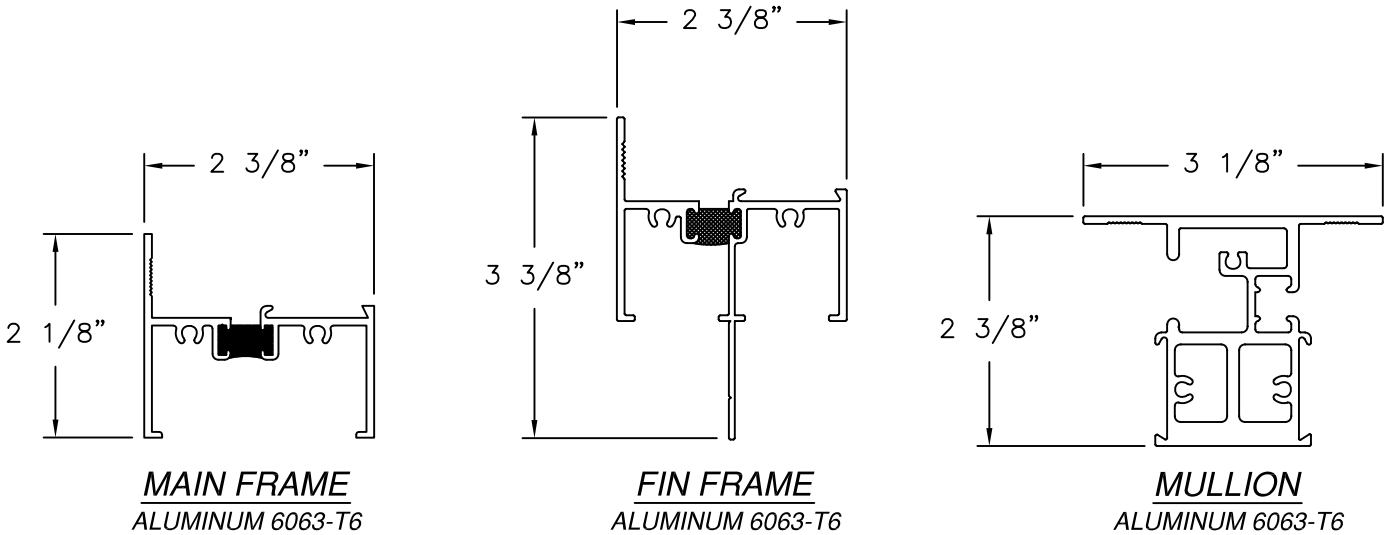
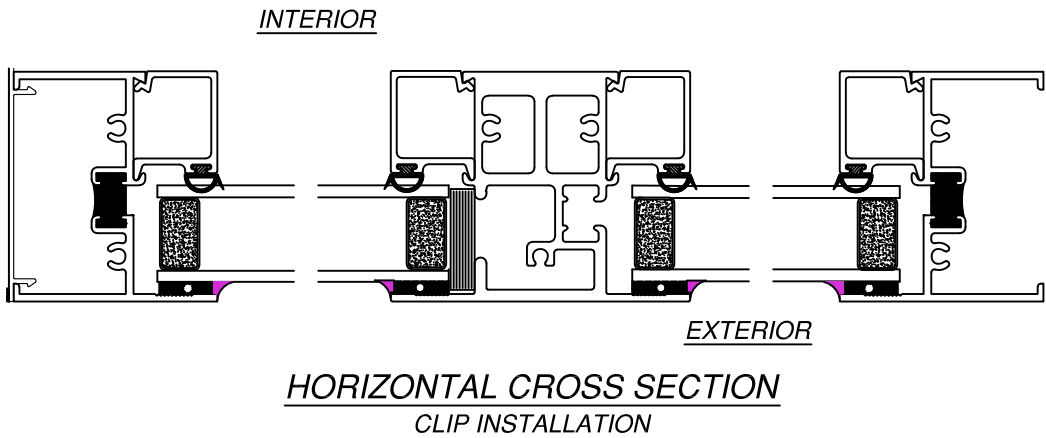
SHEET
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217 STOVER ROAD

CHARLEVOIX, MI 49720

4500 FIXED-FIXED WINDOW

NON-IMPACT

HORIZONTAL CROSS SECTIONS AND COMPONENTS

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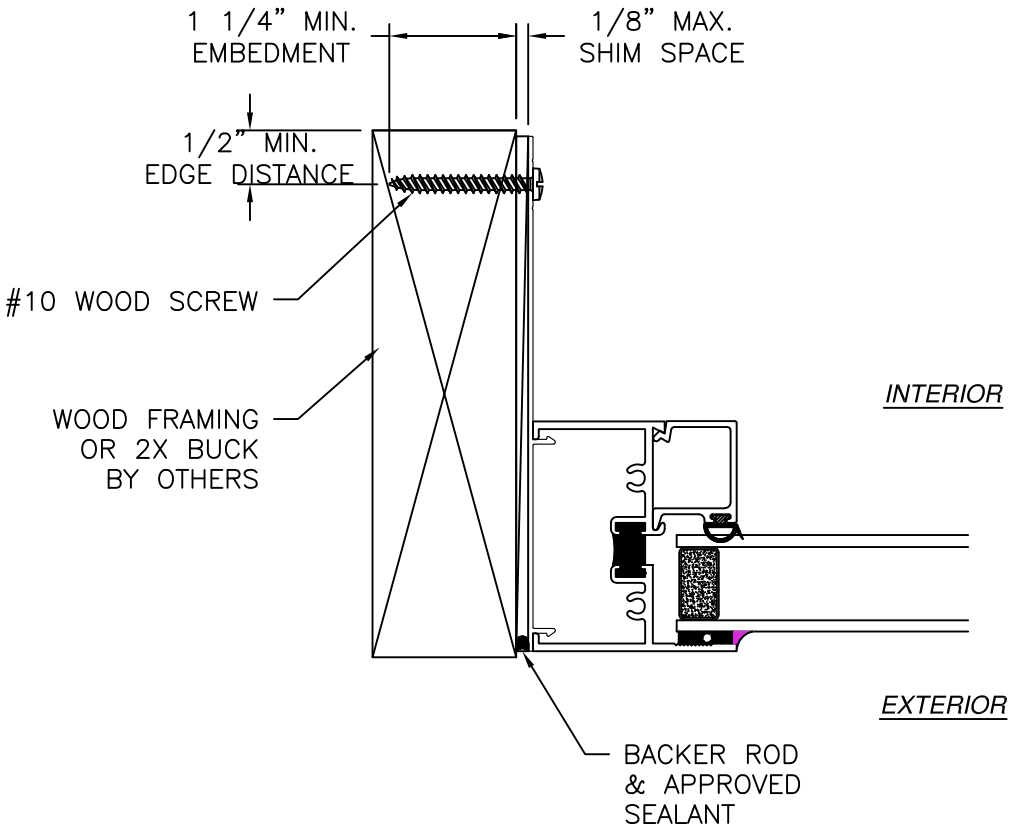
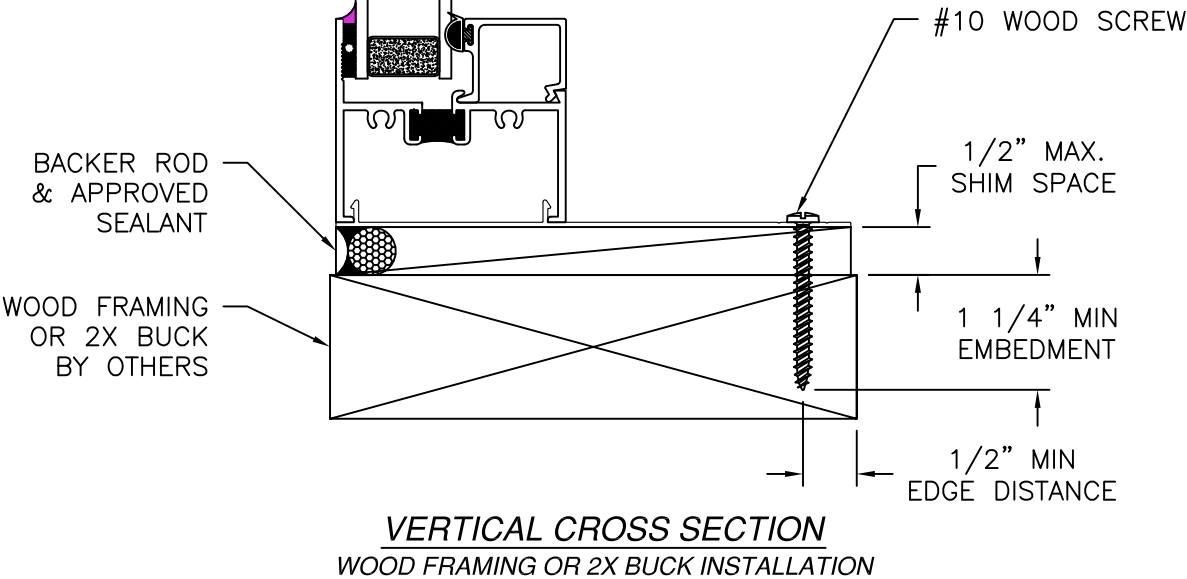
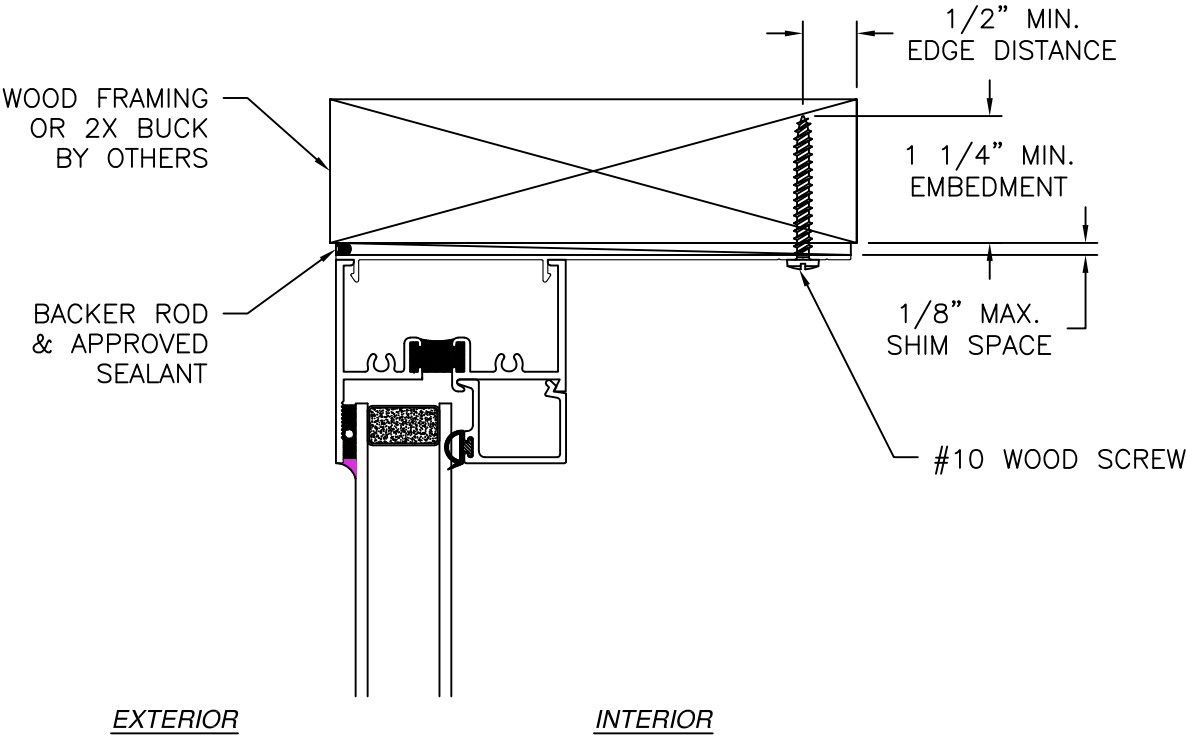
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JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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

SIGNED: 05/01/2025

WOJAN WINDOW & DOOR CORPORATION

217 STOVER ROAD

CHARLEVOIX, MI 49720

4500 FIXED-FIXED WINDOW

NON-IMPACT

INSTALLATION DETAILS

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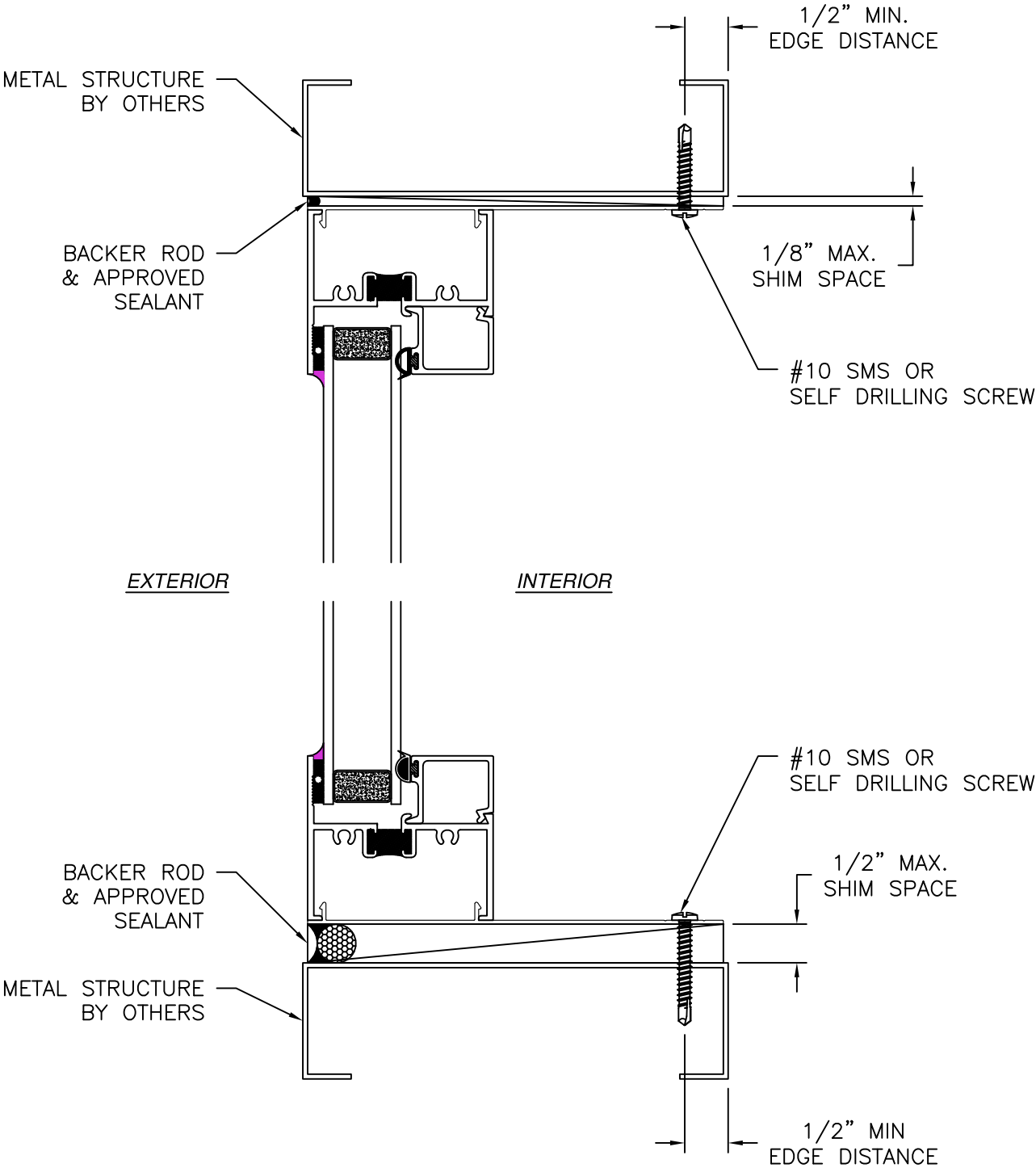
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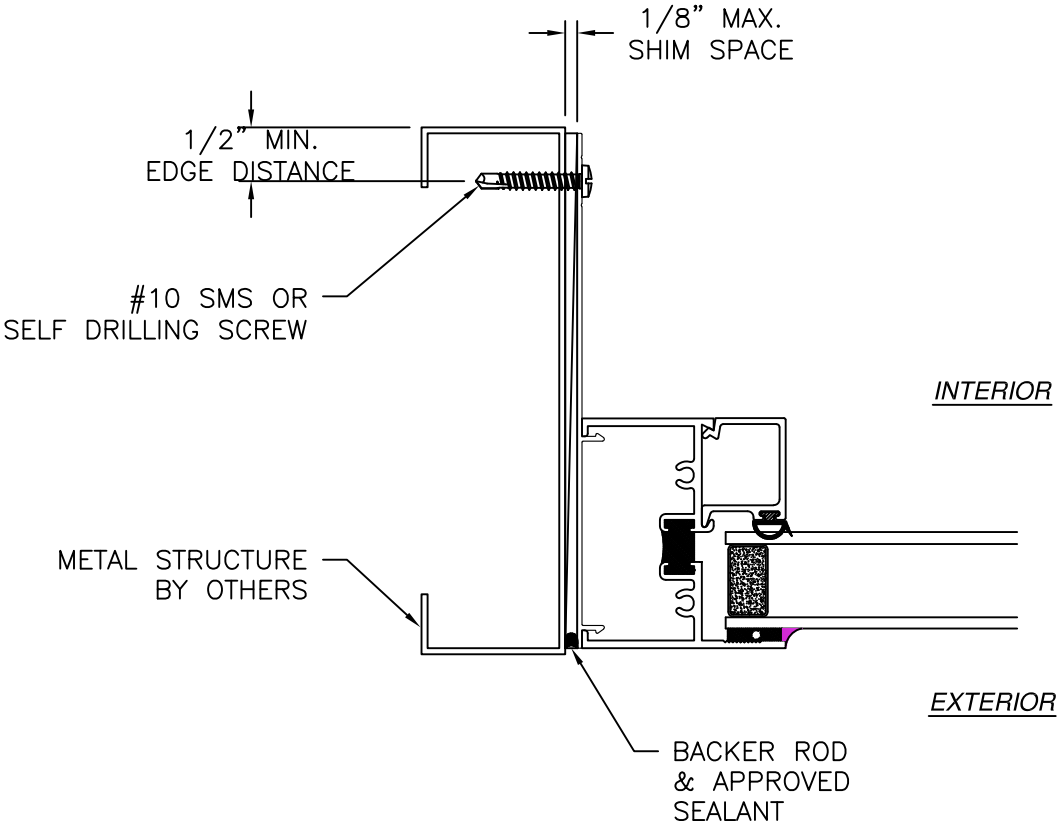
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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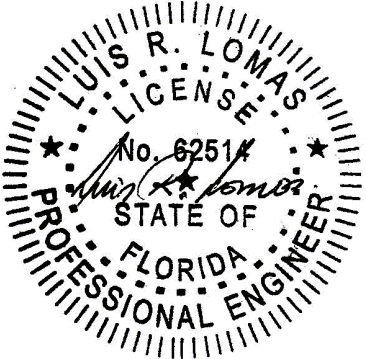
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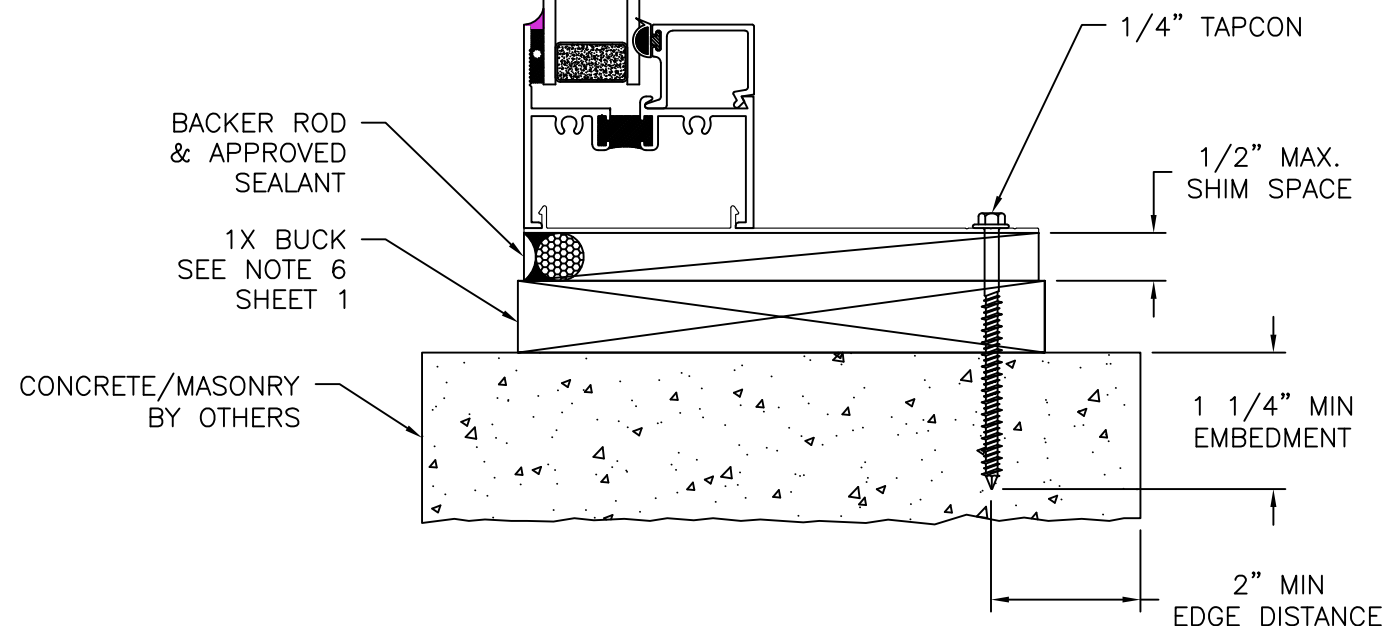
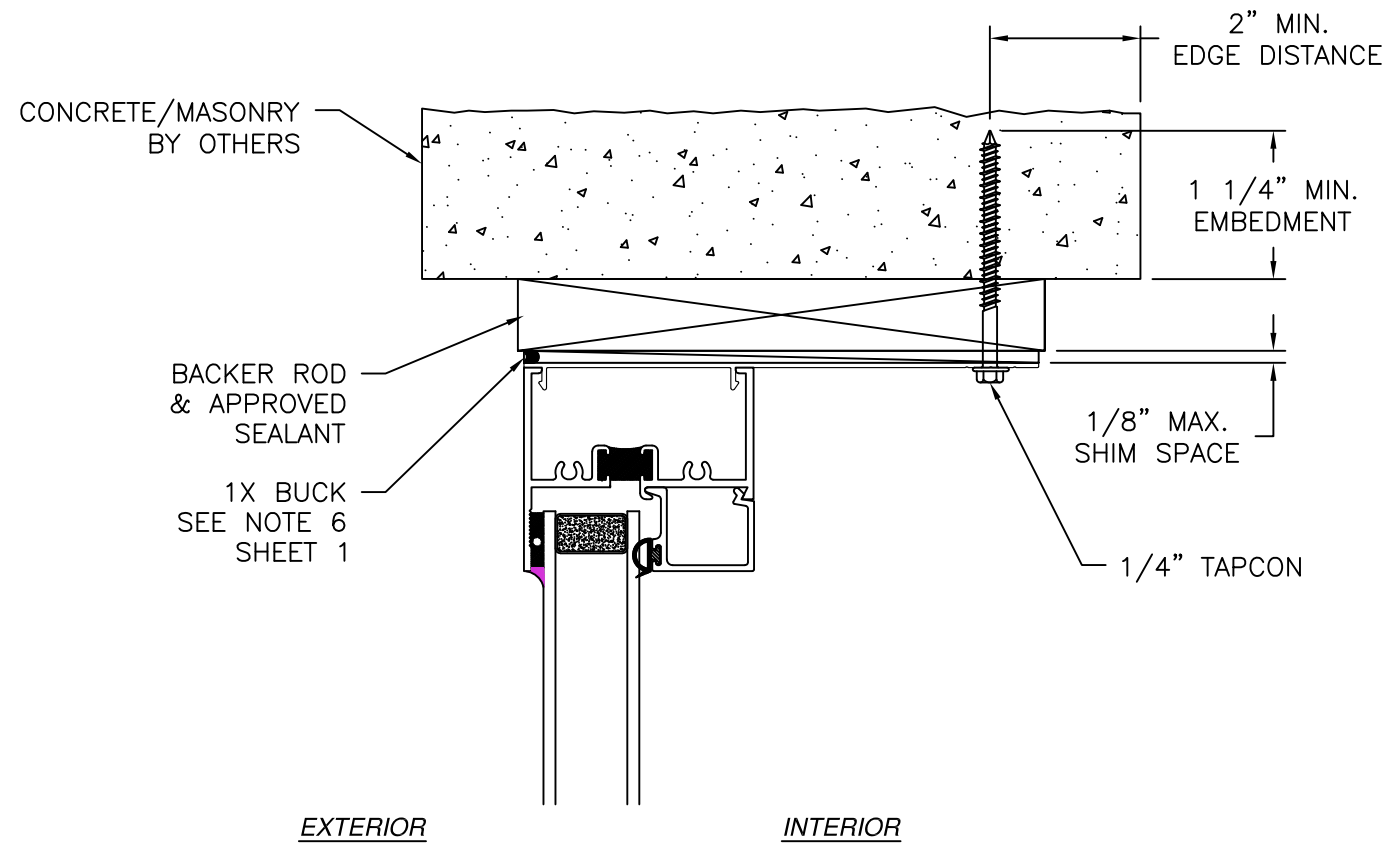
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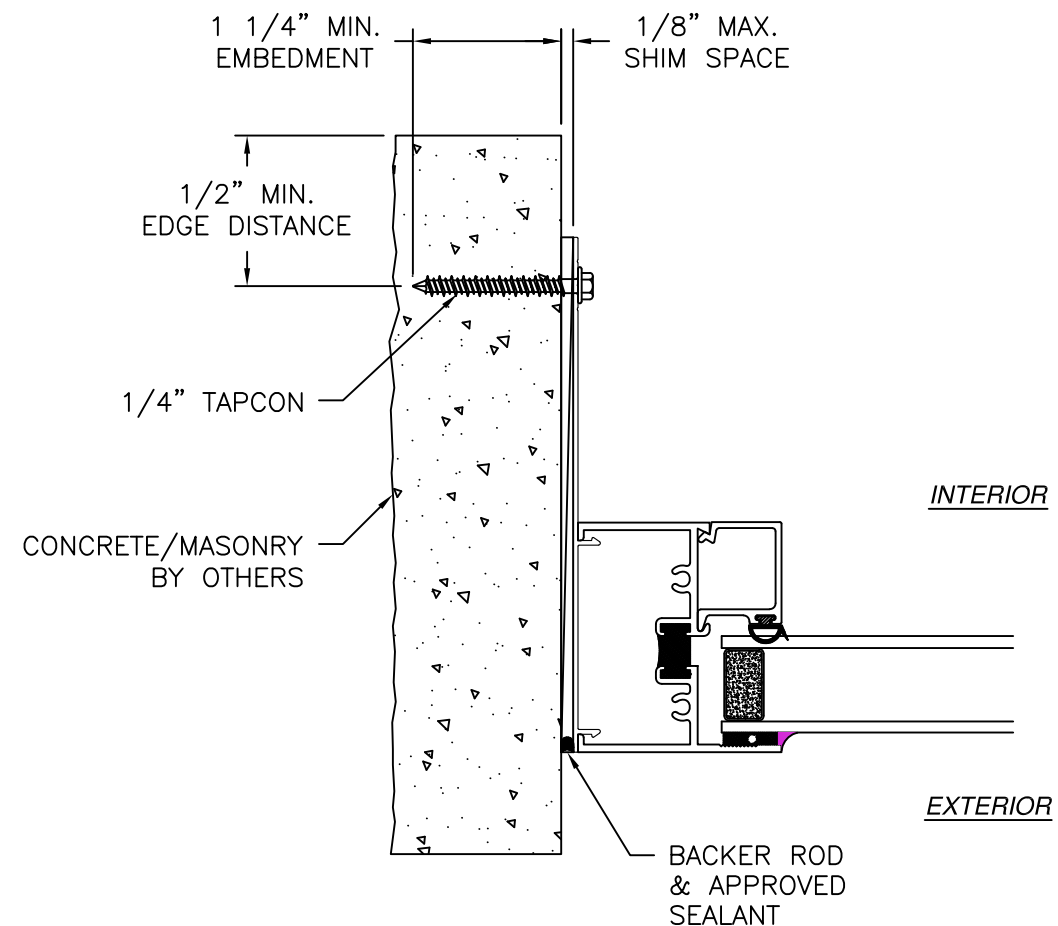
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VERTICAL CROSS SECTION
 CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
 FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
 JAMB INSTALLATION DETAIL



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

NOTES:

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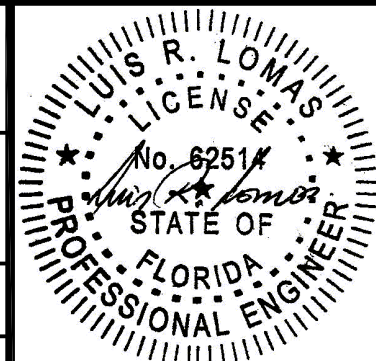
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 NON-IMPACT
 INSTALLATION DETAILS

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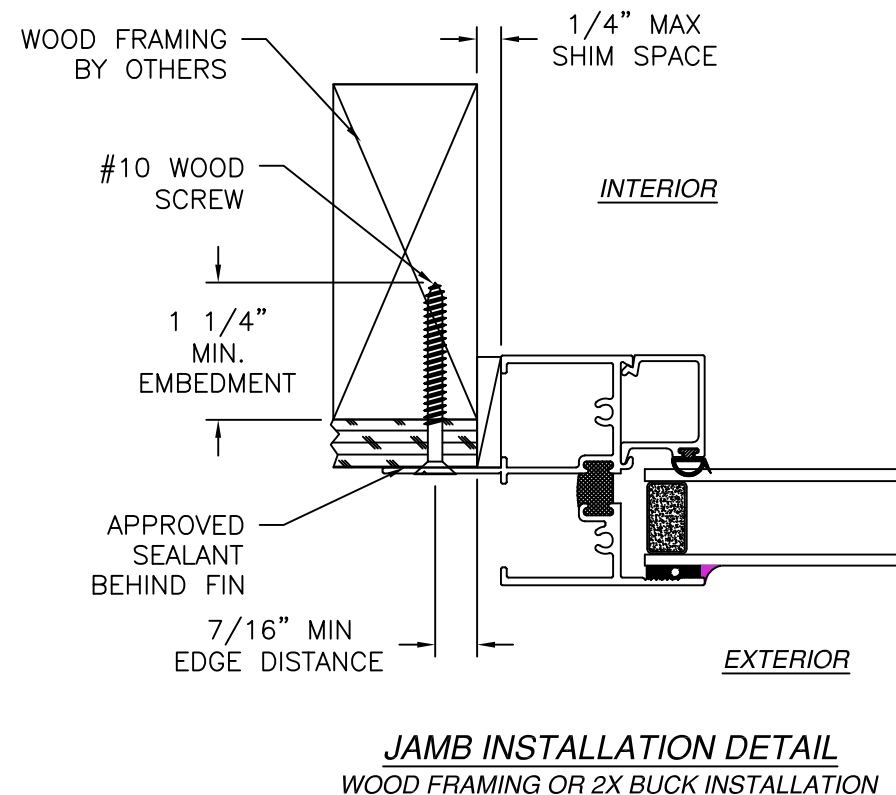
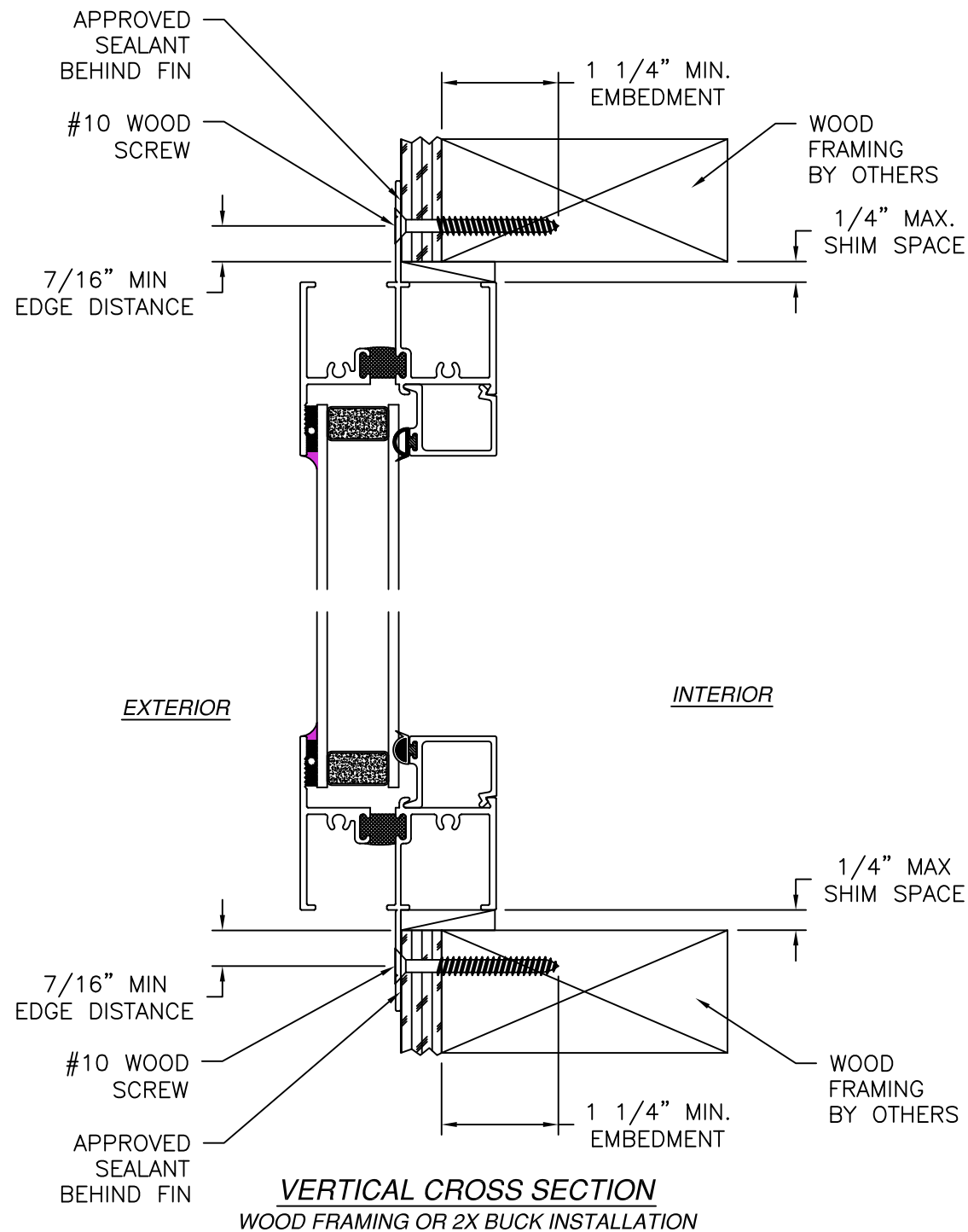
SCALE NTS	DATE 02/27/2025	SHEET 7 OF 10
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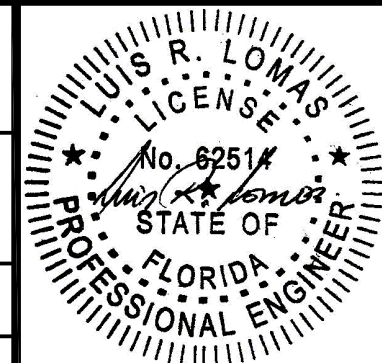


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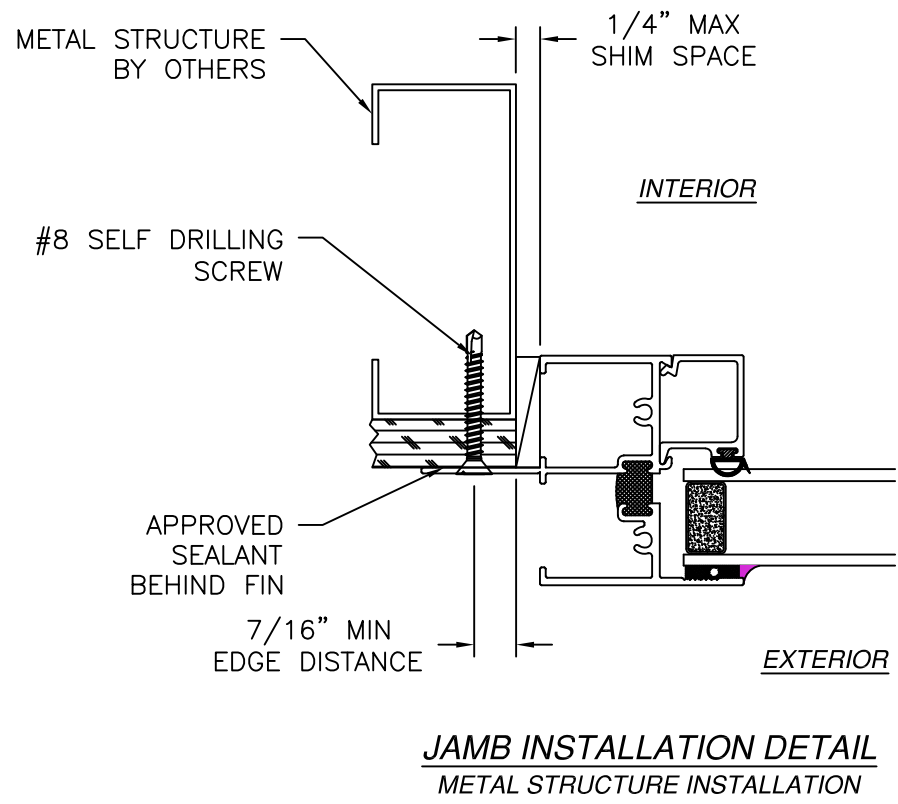
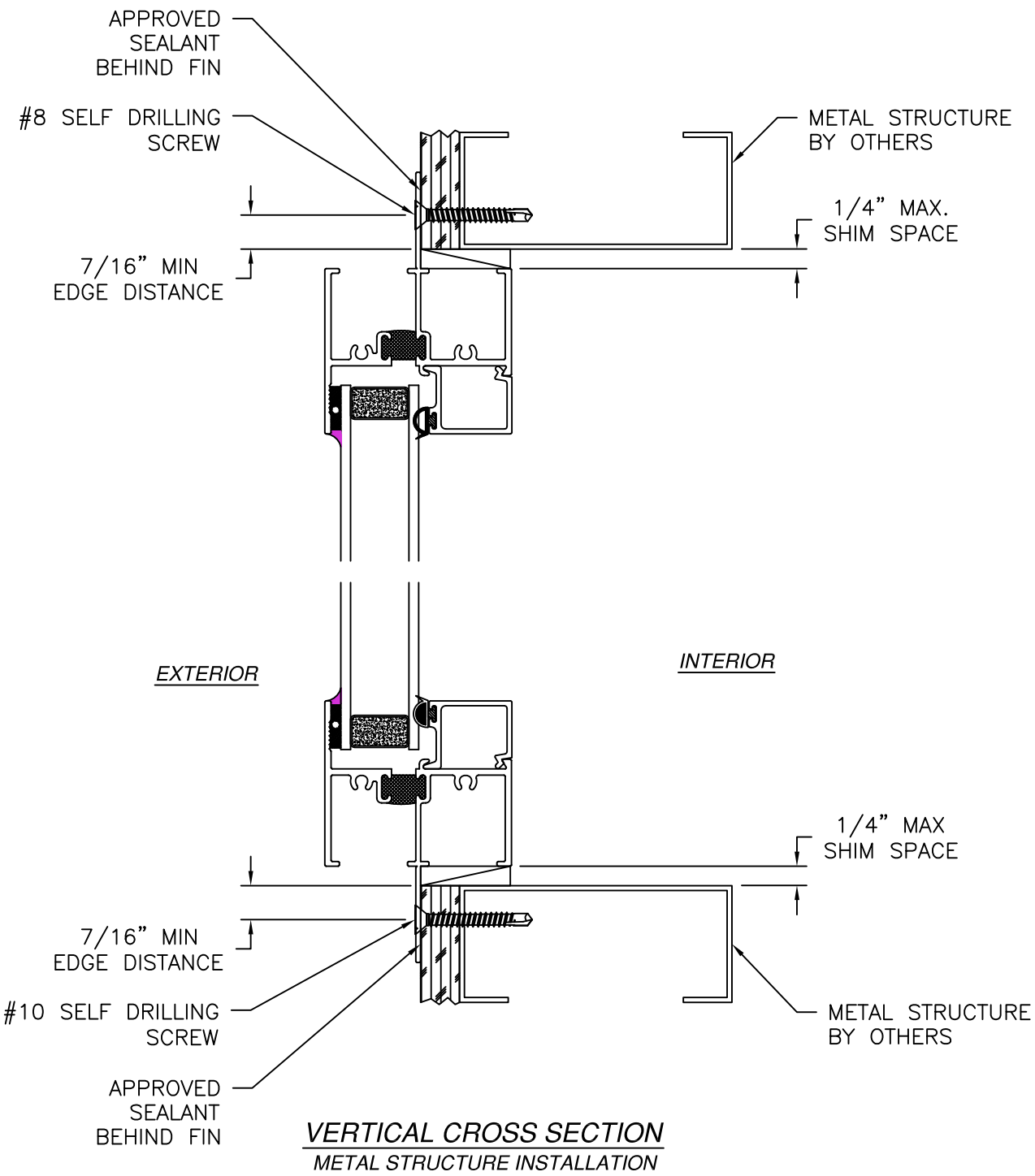
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WOJAN WINDOW & DOOR CORPORATION 217 STOVER ROAD CHARLEVOIX, MI 49720		
4500 FIXED-FIXED WINDOW NON-IMPACT INSTALLATION DETAILS		
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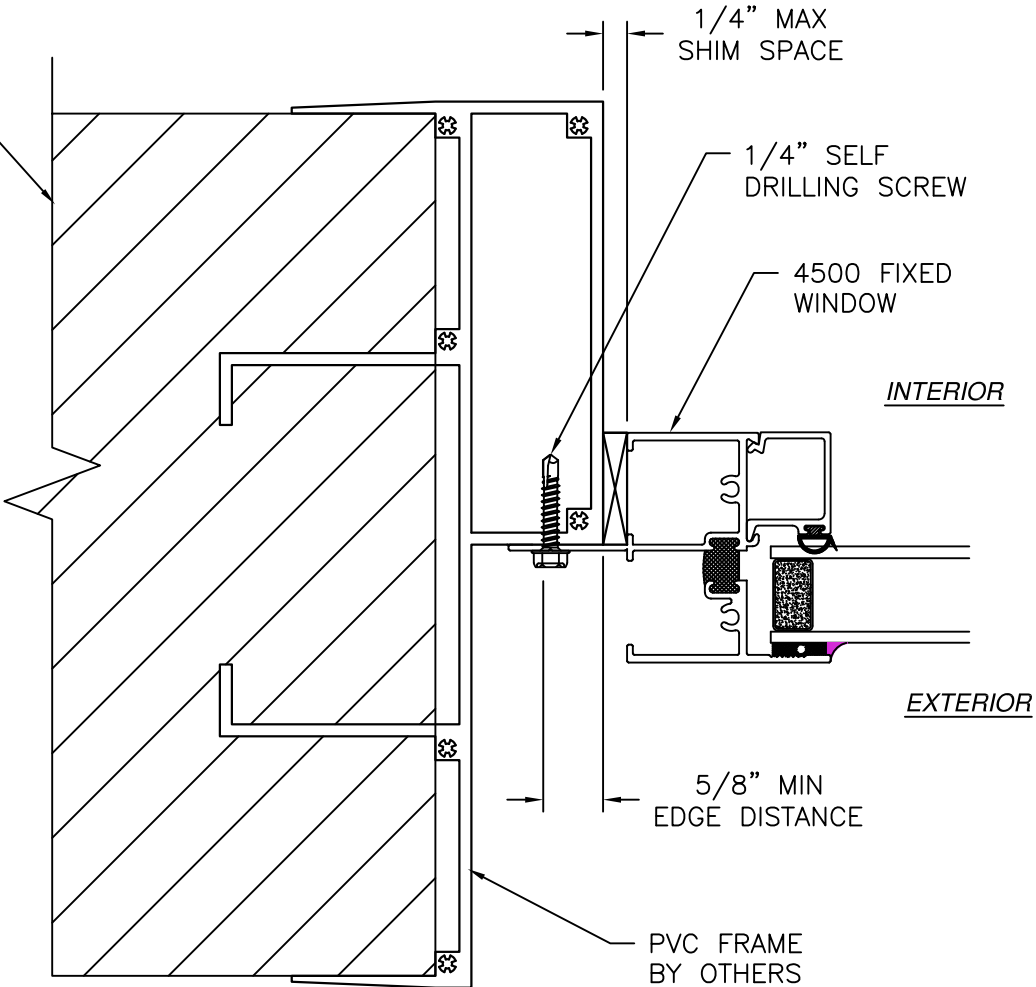
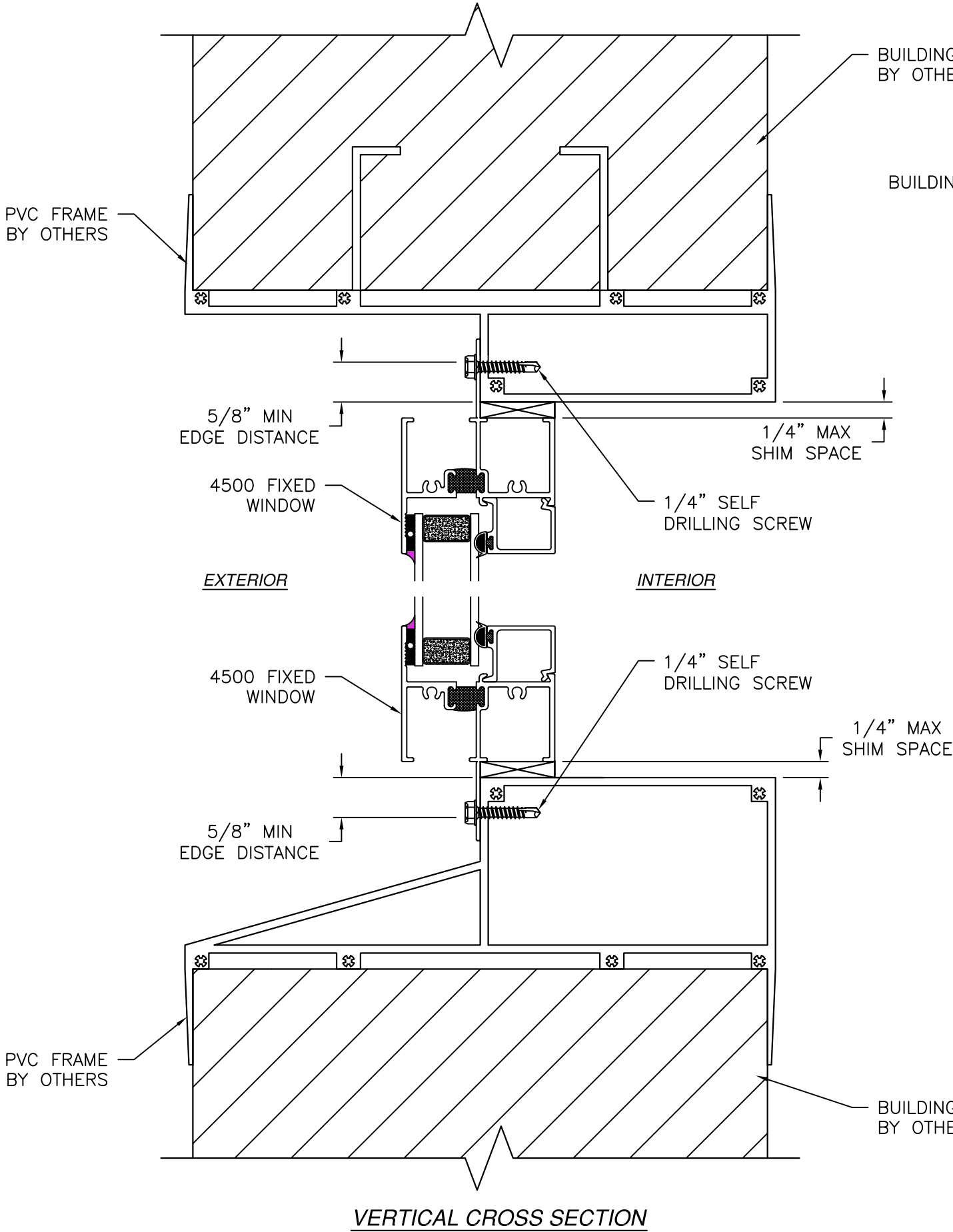
SIGNED: 05/01/2025

WOJAN WINDOW & DOOR CORPORATION 217 STOVER ROAD CHARLEVOIX, MI 49720		
4500 FIXED-FIXED WINDOW NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-04125A	REV A
SCALE NTS	DATE 02/27/2025	SHEET 9 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

Professional Engineer Seal for Luis R. Lomas, State of Florida, License No. 62514.

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED TO ADD PVC FRAME	04/23/2025	R.L.



JAMB INSTALLATION DETAIL

- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
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WOJAN WINDOW & DOOR CORPORATION

217 STOVER ROAD

CHARLEVOIX, MI 49720

4500 FIXED-FIXED WINDOW

NON-IMPACT

INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-04125A

REV A

SCALE NTS

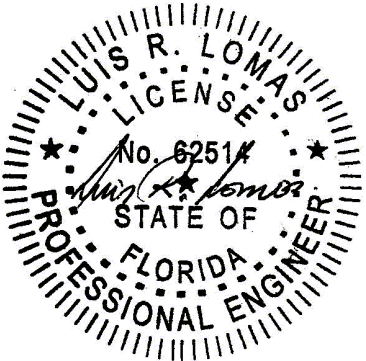
DATE 02/27/2025

SHEET 10 OF 10

L. ROBERTO LOMAS P.E.

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