

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW CODE	10/30/2023	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. 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 RIGID PVC.
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 2 FOR GLASS DETAILS.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #6 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 WOOD FRAMING OR 2X BUCK USE #8 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 3/16" 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.
16. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #8 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.
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:
 - 18.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 18.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - 18.3. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - 18.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATIONS
3 – 12	INSTALLATION DETAILS
13	COMPONENTS

MI WINDOWS & DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370

9770 CASEMENT PVC WINDOW
LARGE MISSILE IMPACT
NOTES

DRAWN:
R.L.

DWG NO.
08-01263

REV
B

SCALE NTS

DATE 06/05/11

SHEET 1 OF 13

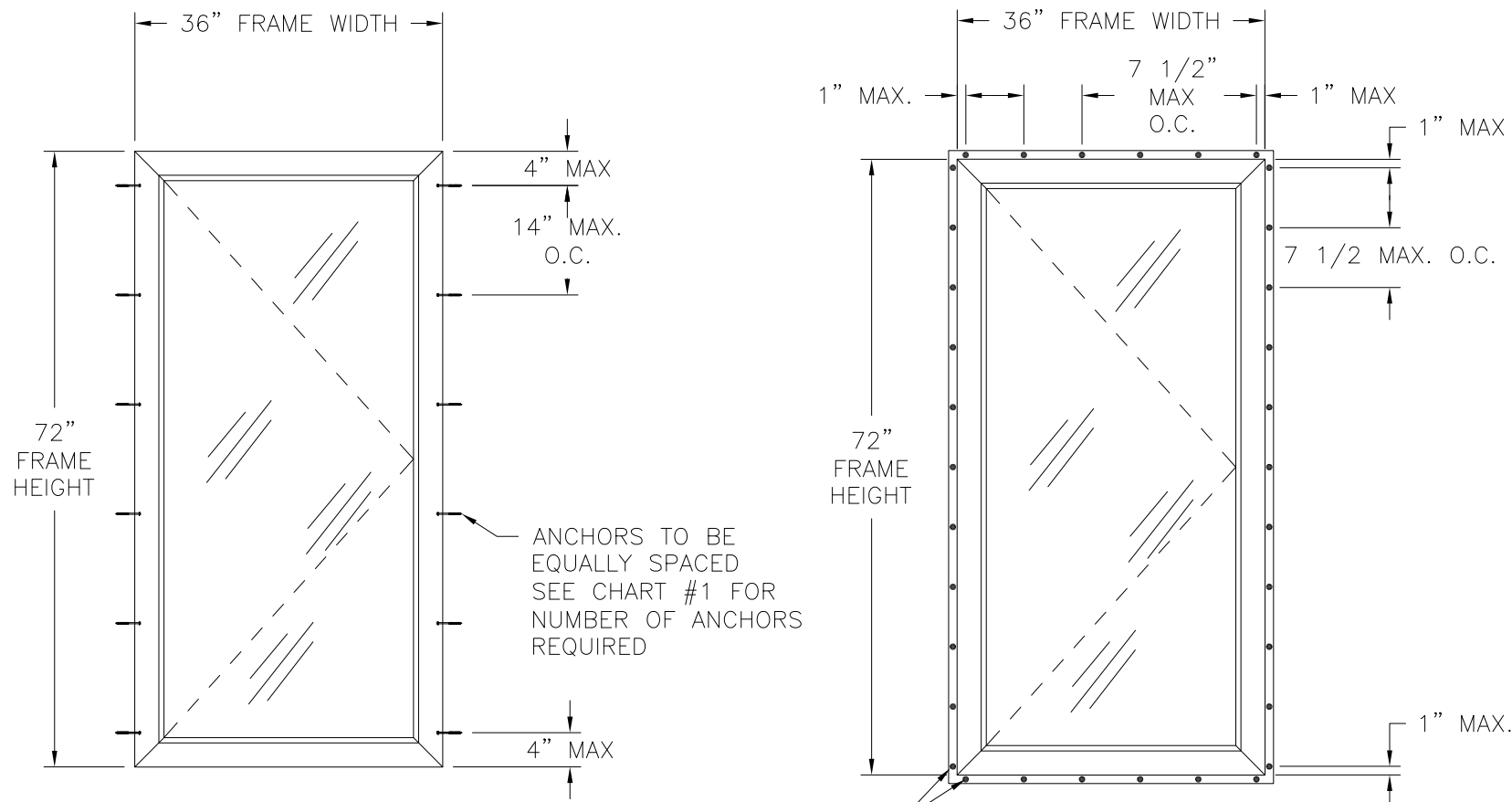
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 11/14/2023



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

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9770 CASEMENT WINDOW
EXTERIOR VIEW
FINLESS INSTALLATION

9770 CASEMENT WINDOW
EXTERIOR VIEW
FIN INSTALLATION

ANCHORS TO BE
EQUALLY SPACED
SEE CHART #2 FOR
NUMBER OF ANCHORS
REQUIRED

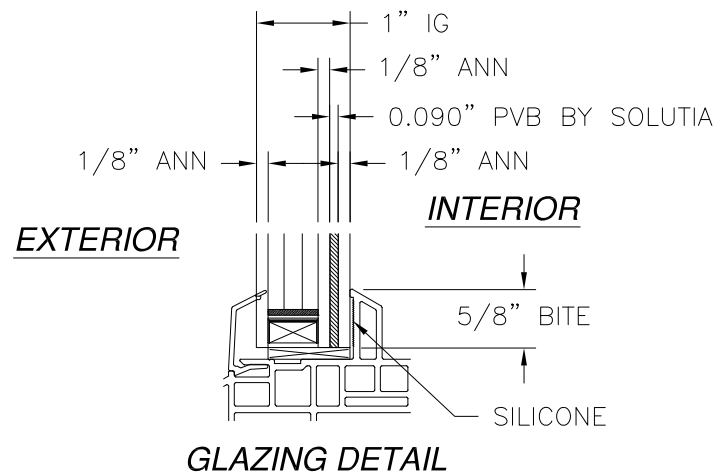
DESIGN PRESSURE RATING	IMPACT RATING
±50PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

- NOTES:
- VENT SIZE: 34 7/16" X 70 7/16"
 - D.L.O. SIZE: 29 3/16" X 65 1/8"

HARDWARE SCHEDULE

A.	(1) ROTARY CRANK OPERATOR AT SILL 1" FROM HINGE JAMB
B.	(2) 3-BAR HINGE AT HINGE JAMBS TOP & BOTTOM RAILS
C.	(1) MULTI-POINT LEVER LOCK AT LOCK JAMBS, HANDLE 9-1/2" FROM SILL
D.	(3) SNUBBERS AT 17-1/2" FROM EACH END & MIDSPAN HINGE JAMB
E.	ALUMINUM REINFORCEMENT (M-2280) AT VENT SILES



GLAZING DETAIL

CHART # 1

Number of anchor locations

Window Height (in)	Window width (in)										
	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	36.00
	Jamb	Jamb	Jamb	Jamb	Jamb	Jamb	Jamb	Jamb	Jamb	Jamb	Jamb
22.00	2	2	2	2	2	2	2	2	2	2	2
24.00	3	3	3	3	3	3	3	3	3	3	3
30.00	3	3	3	3	3	3	3	3	3	3	3
36.00	3	3	3	3	3	3	3	3	3	3	3
42.00	4	4	4	4	4	4	4	4	4	4	4
48.00	4	4	4	4	4	4	4	4	4	4	4
54.00	5	5	5	5	5	5	5	5	5	5	5
60.00	5	5	5	5	5	5	5	5	5	5	5
62.00	5	5	5	5	5	5	5	5	5	5	5
66.00	6	6	6	6	6	6	6	6	6	6	6
72.00	6	6	6	6	6	6	6	6	6	6	6

CHART # 2

Number of anchor locations required

Frame Height (in)	Frame width (in)													
	18.00		21.00		24.00		27.00		30.00		33.00		36.00	
	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb
22.00	4	4	4	4	4	4	5	4	5	4	6	4	6	4
24.00	4	4	4	4	4	4	5	4	5	4	6	4	6	4
30.00	4	5	4	5	4	5	5	5	5	5	6	5	6	5
36.00	4	6	4	6	4	6	5	6	5	6	6	6	6	6
42.00	4	7	4	7	4	7	5	7	5	7	6	7	6	7
48.00	4	8	4	8	4	8	5	8	5	8	6	8	6	8
54.00	4	8	4	8	4	8	5	8	5	8	6	8	6	8
60.00	4	9	4	9	4	9	5	9	5	9	6	9	6	9
62.00	4	9	4	9	4	9	5	9	5	9	6	9	6	9
66.00	4	10	4	10	4	10	5	10	5	10	6	10	6	10
72.00	4	11	4	11	4	11	5	11	5	11	6	11	6	11

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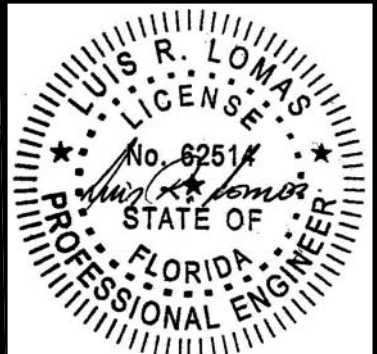
MI WINDOWS & DOORS, LLC

650 WEST MARKET STREET
GRATZ, PA 17030-0370

9770 CASEMENT PVC WINDOW
LARGE MISSILE IMPACT
ELEVATION AND GLAZING DETAIL

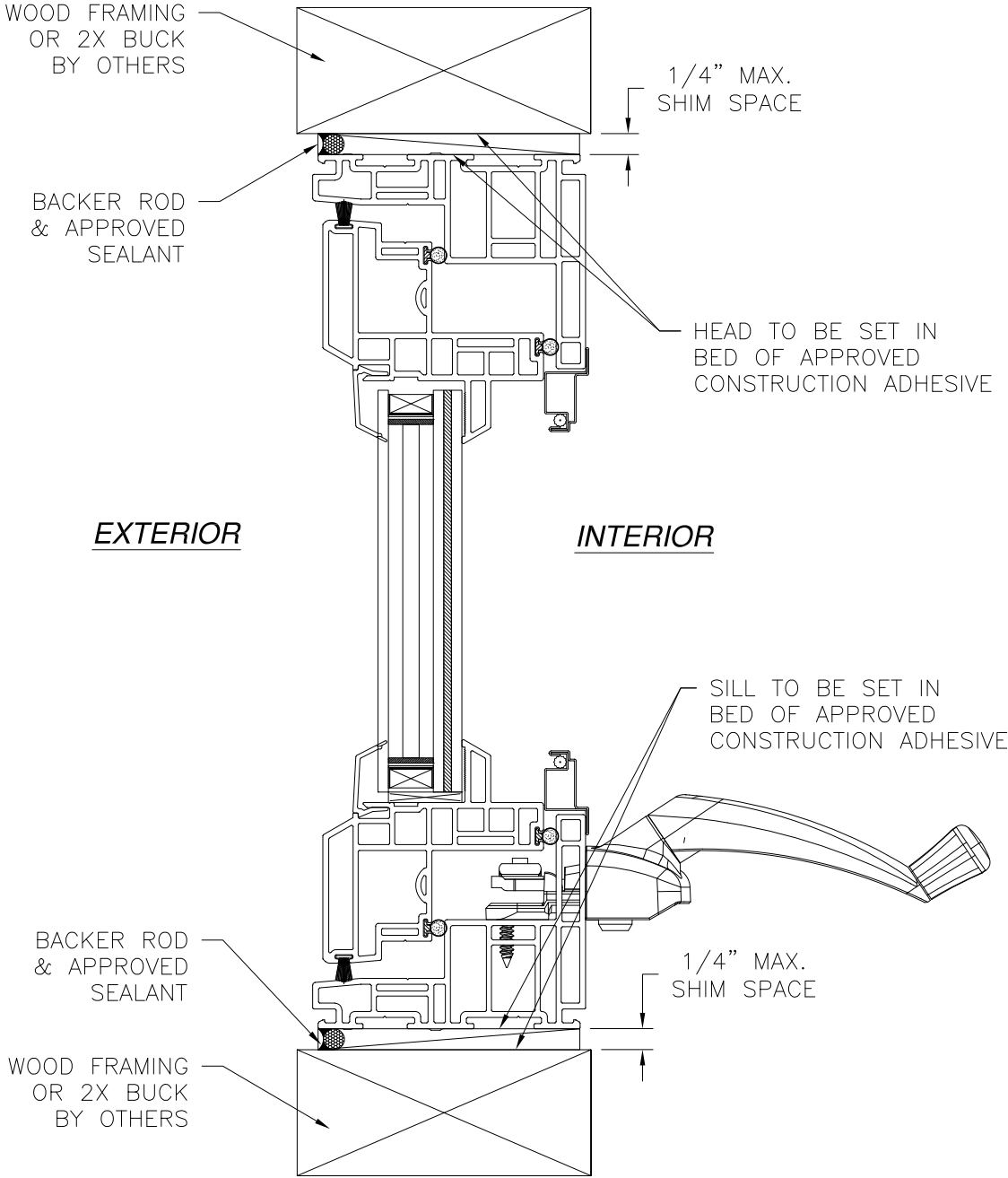
DRAWN: R.L.	DWG NO. 08-01263	REV B
SCALE NTS	DATE 06/05/11	SHEET 2 OF 13

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

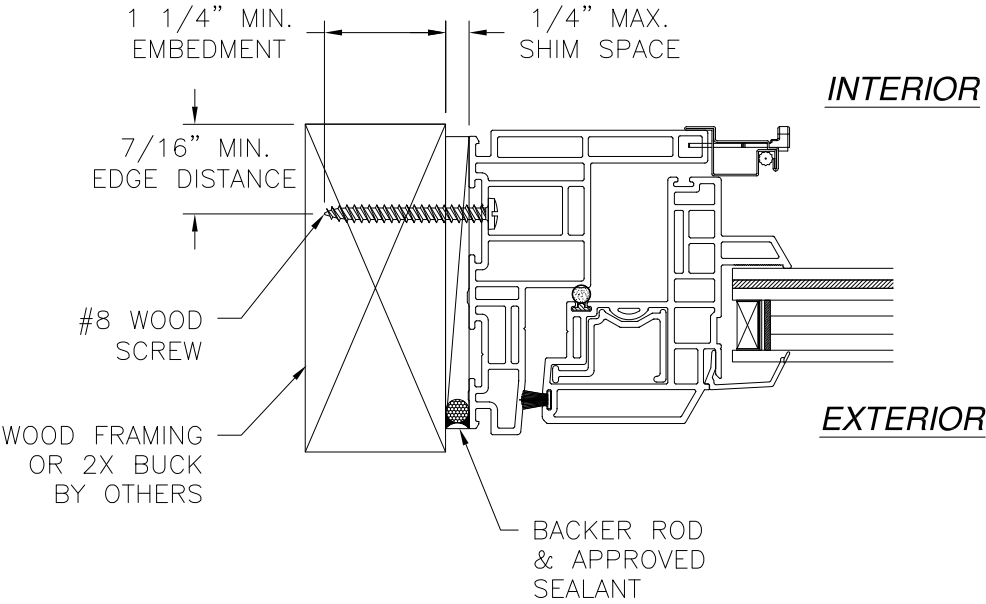


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VERTICAL CROSS SECTION
2X BUCK/WOOD FRAMING INSTALLATION



HORIZONTAL CROSS SECTION
2X BUCK/WOOD FRAMING INSTALLATION

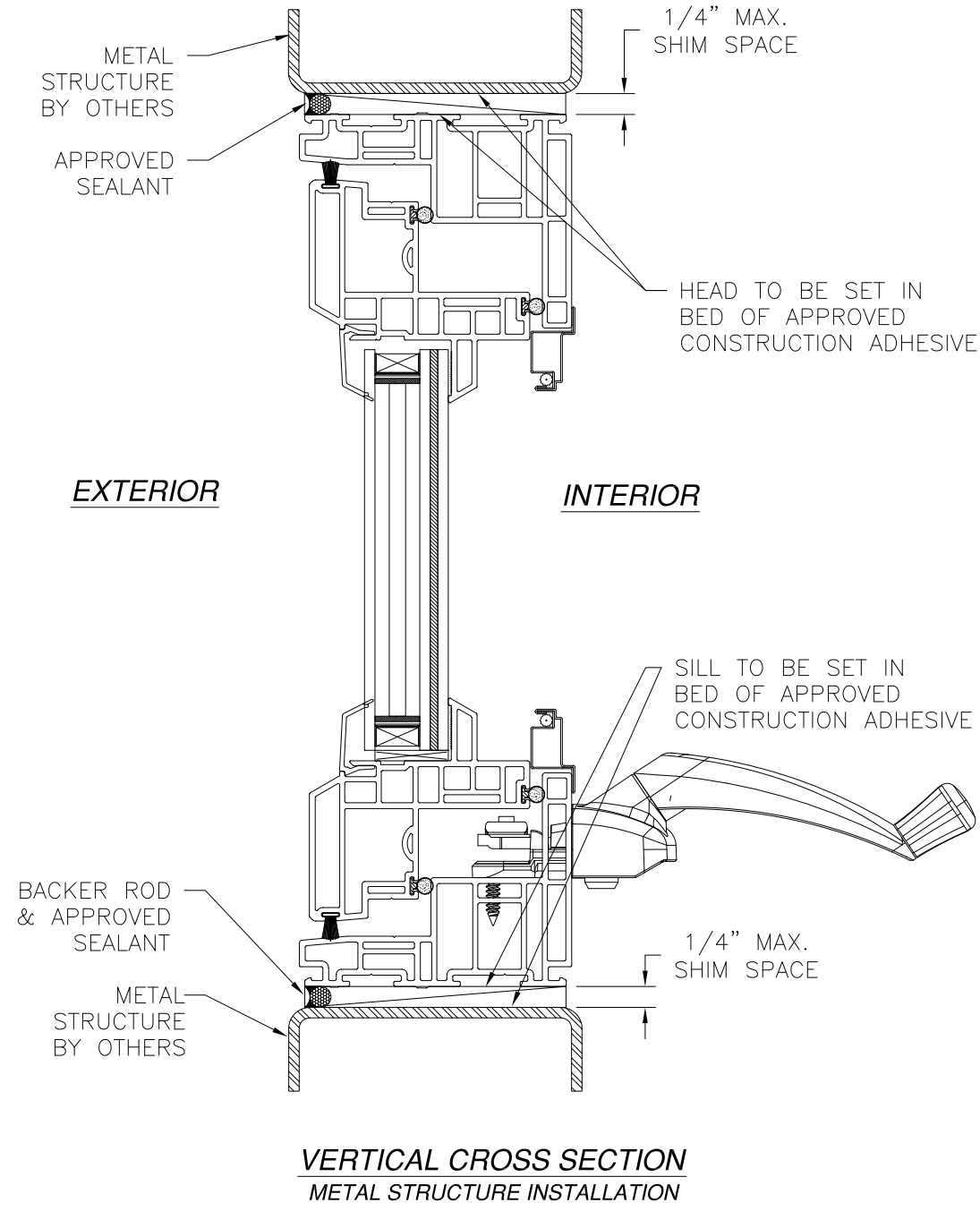
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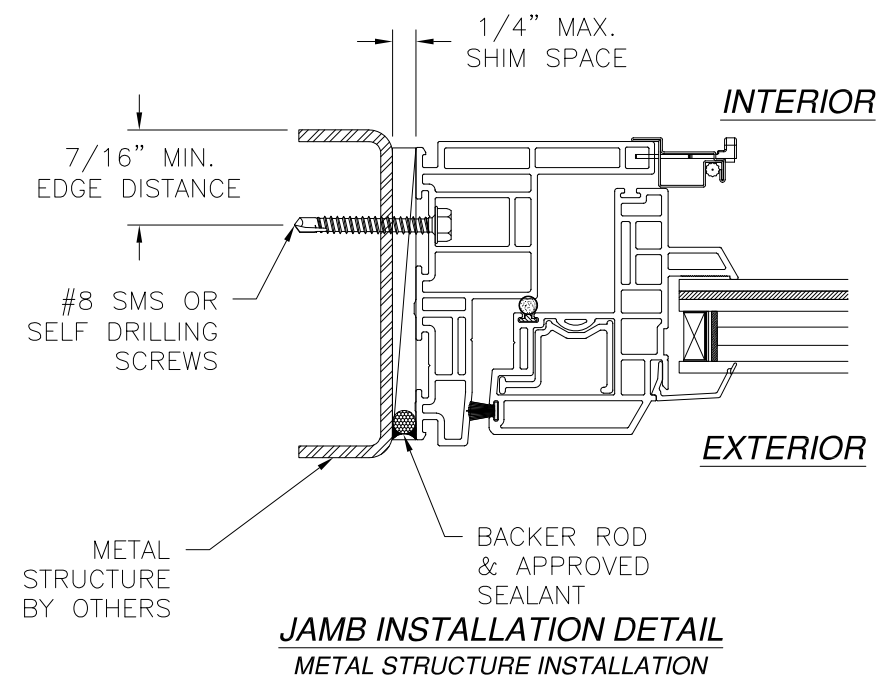
MI WINDOWS & DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
9770 CASEMENT PVC WINDOW LARGE MISSILE IMPACT FINLESS INSTALLATION DETAILS		
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SCALE NTS	DATE 06/05/11	SHEET 3 OF 13
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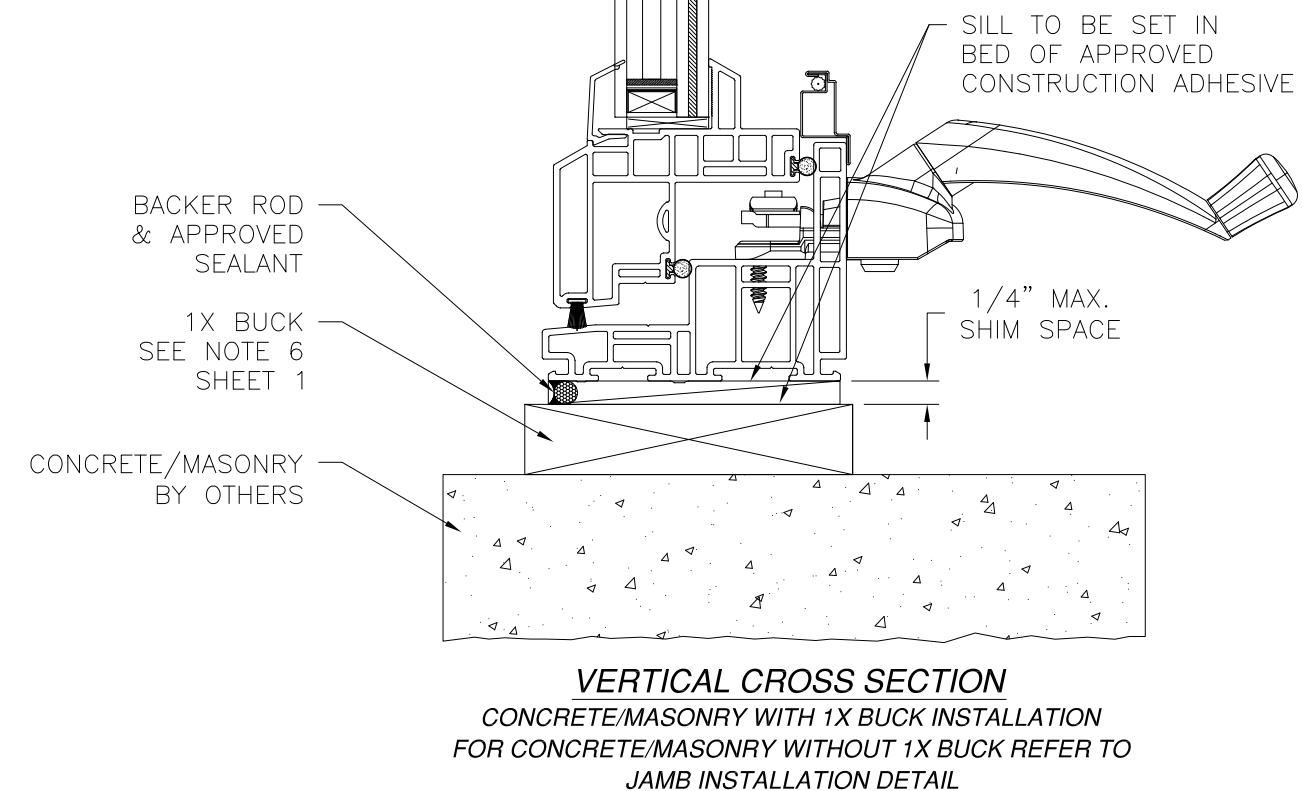
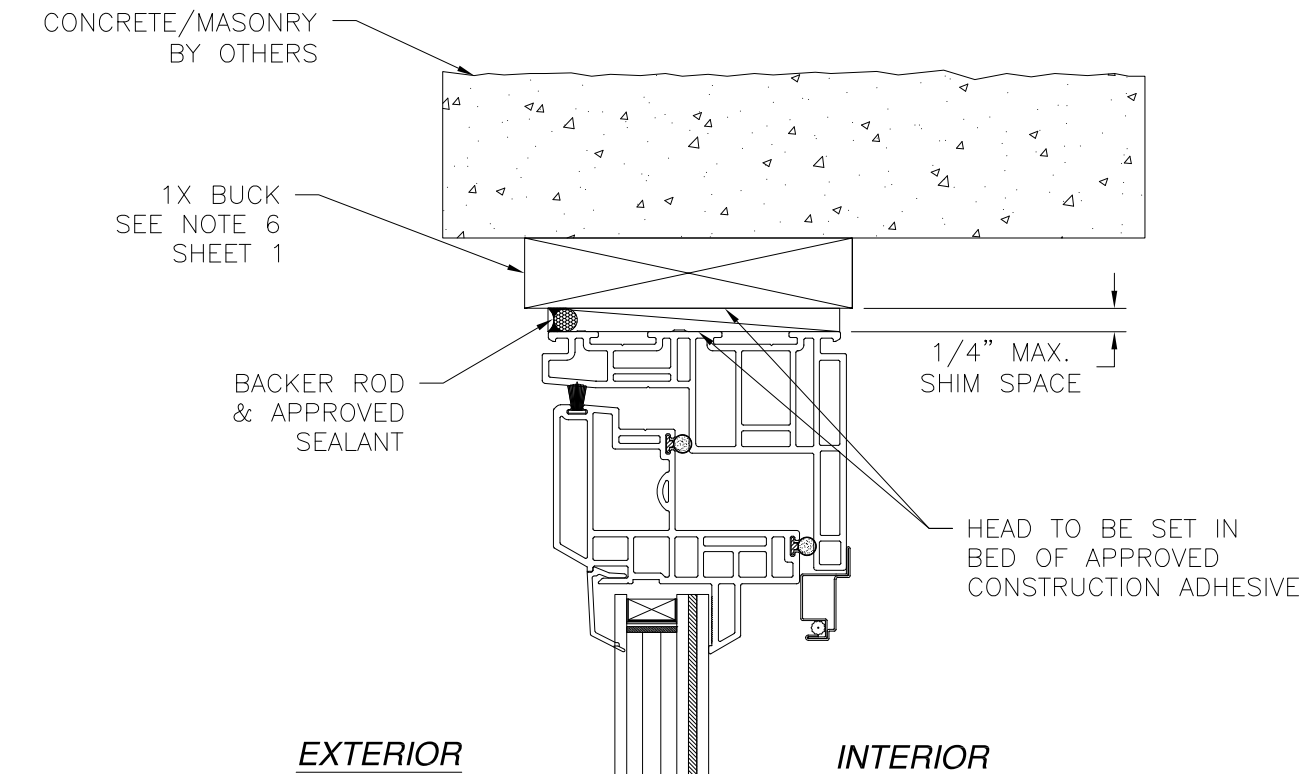
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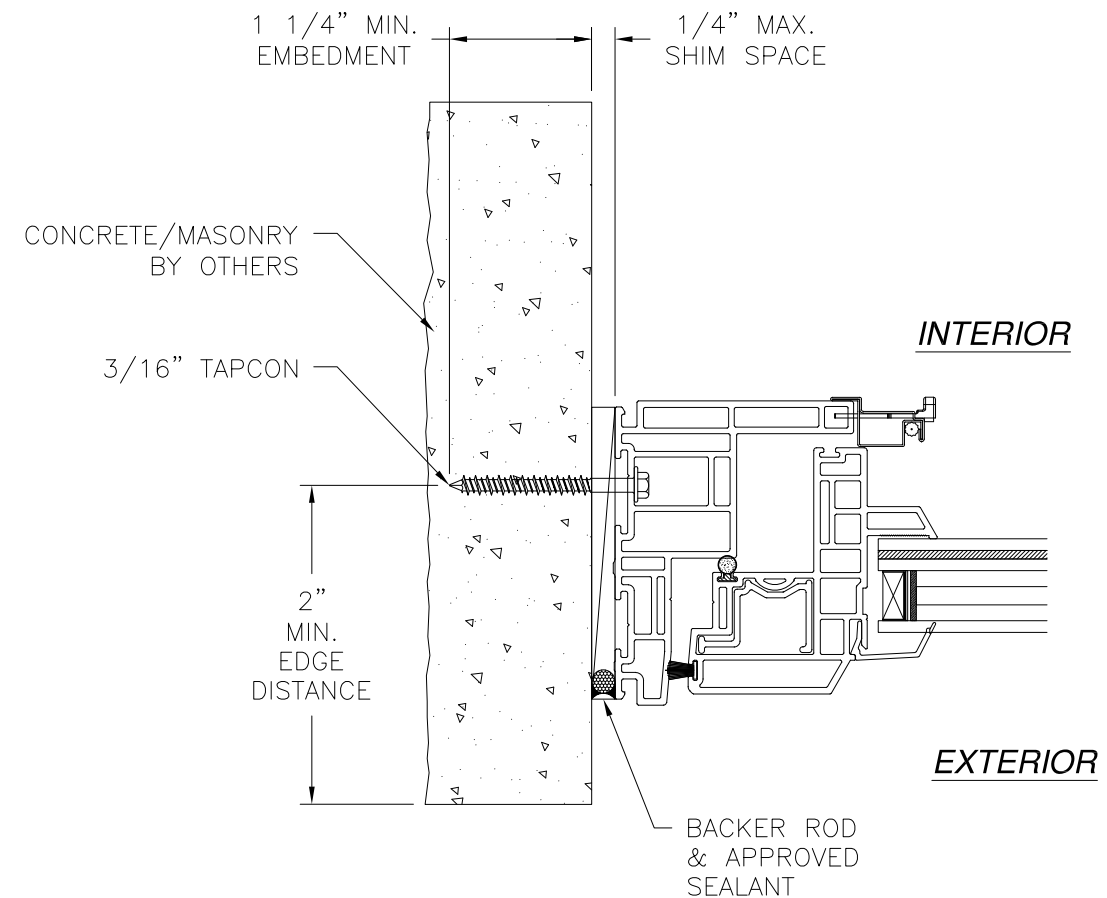
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Professional Engineer Seal for Luis R. Lomas, State of Florida, License No. 62514.

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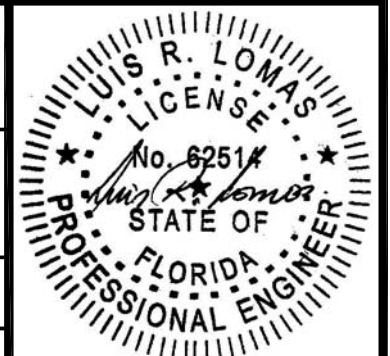


JAMB INSTALLATION DETAIL
 CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
 FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
 HEAD AND SILL INSTALLATION DETAILS

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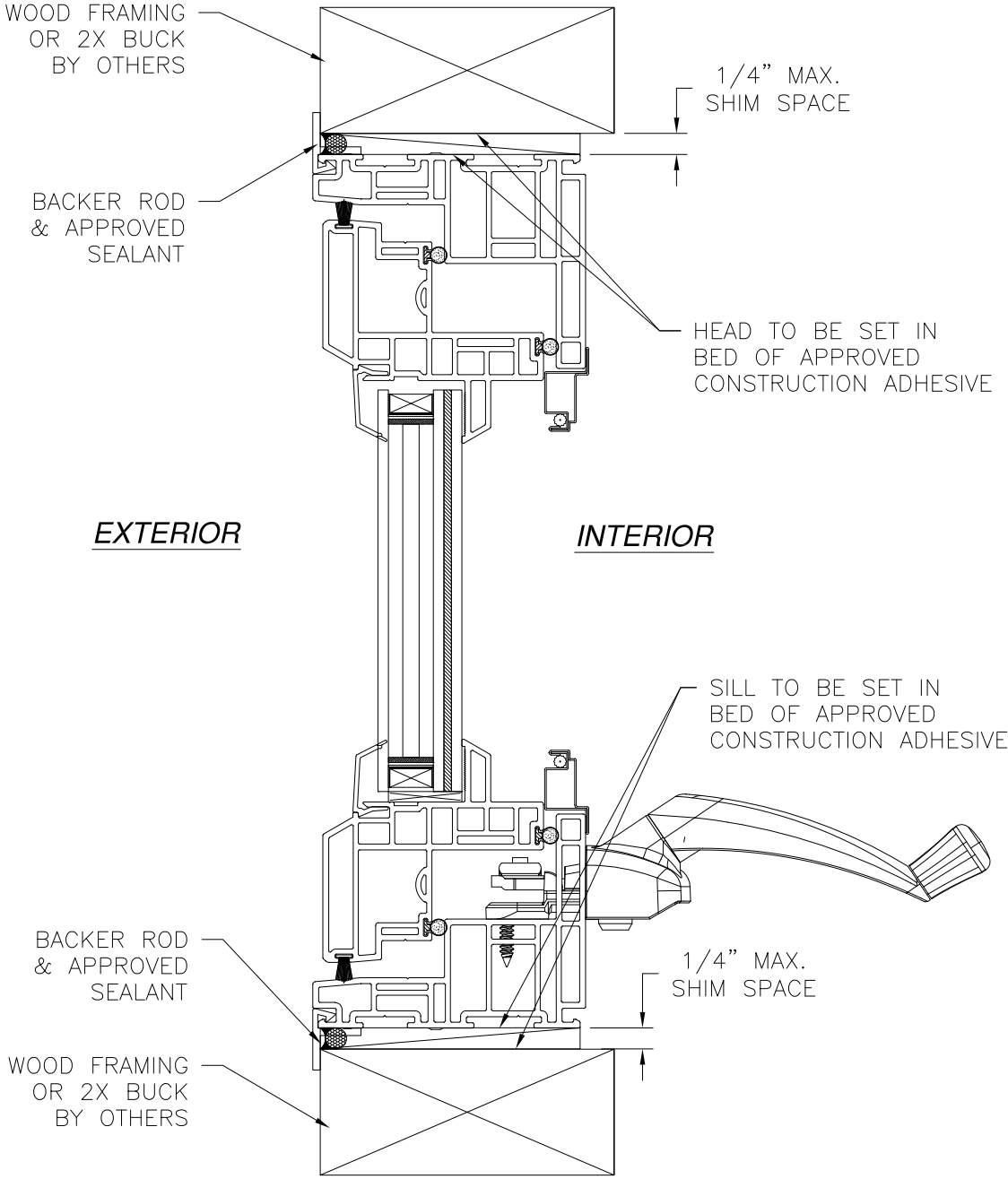
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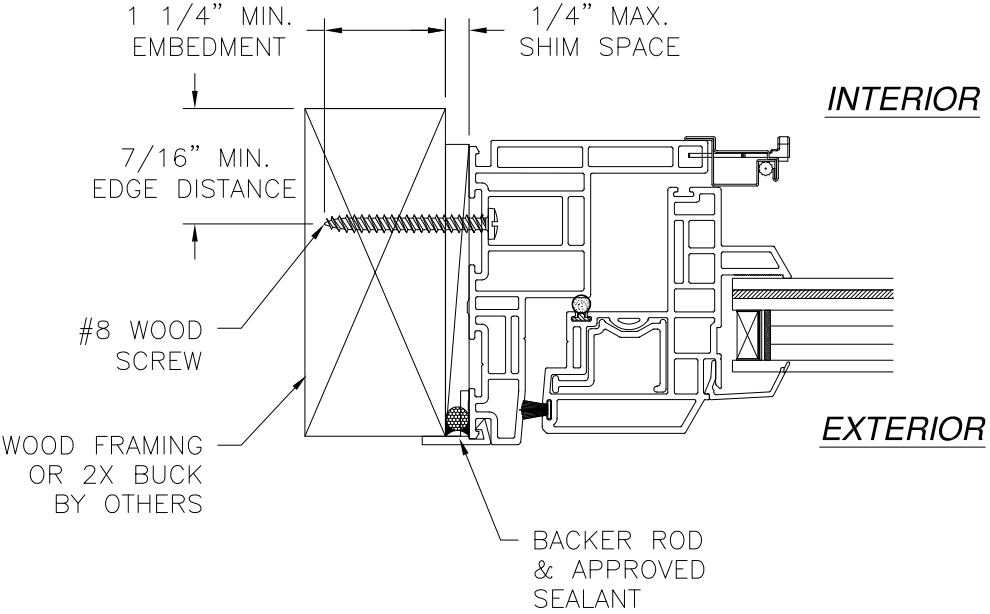


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VERTICAL CROSS SECTION
2X BUCK/WOOD FRAMING INSTALLATION

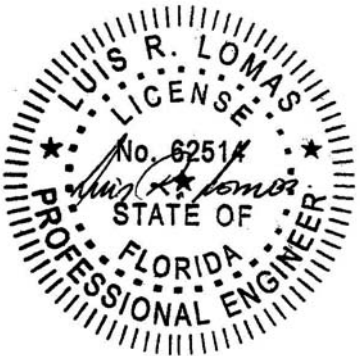


HORIZONTAL CROSS SECTION
2X BUCK/WOOD FRAMING INSTALLATION

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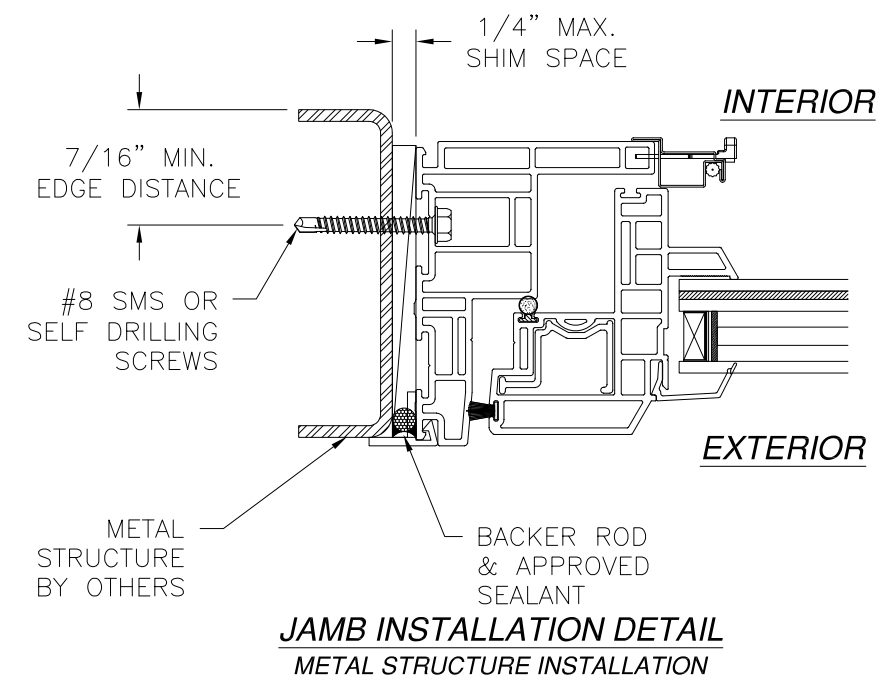
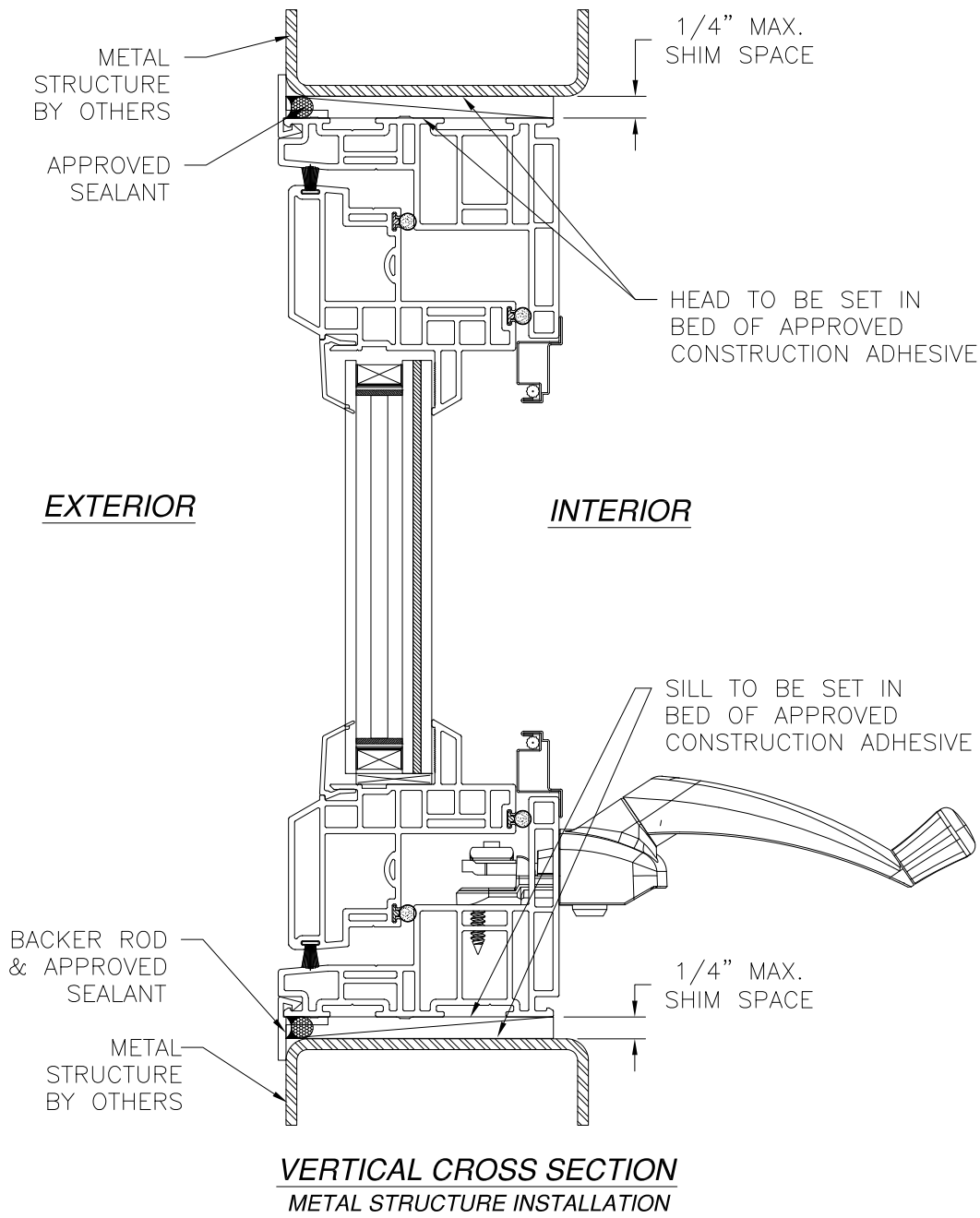
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MI WINDOWS & DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
9770 CASEMENT PVC WINDOW LARGE MISSILE IMPACT FLANGE INSTALLATION DETAILS		
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L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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MI WINDOWS & DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370

9770 CASEMENT PVC WINDOW
LARGE MISSILE IMPACT
FLANGE INSTALLATION DETAILS

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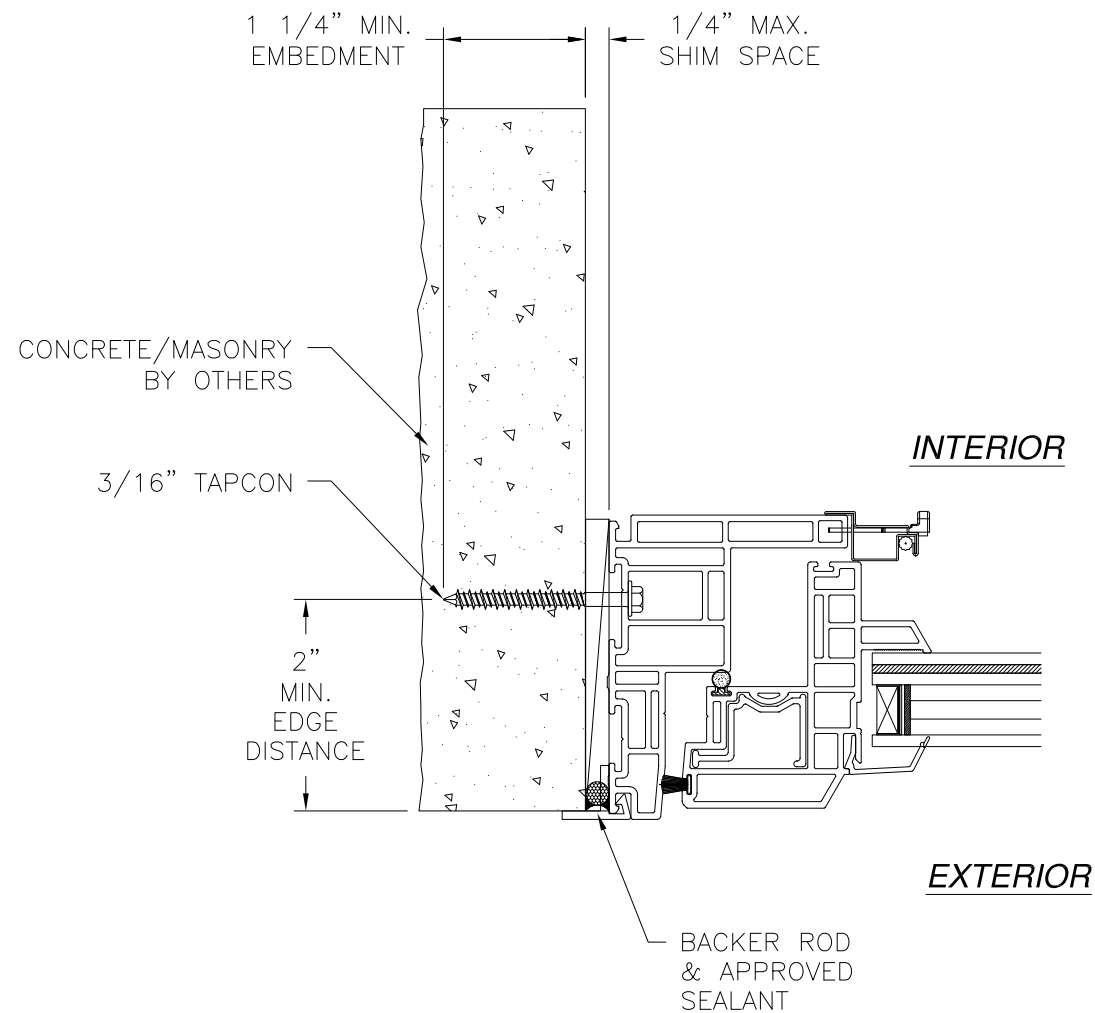
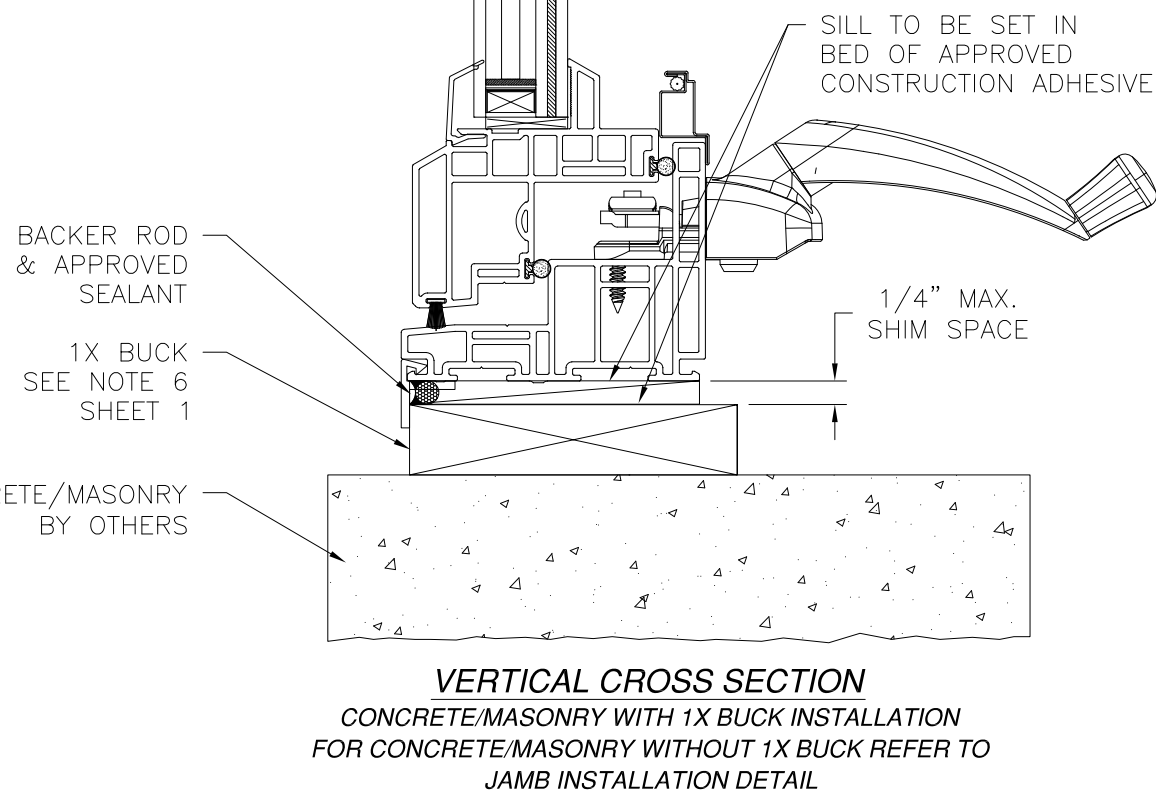
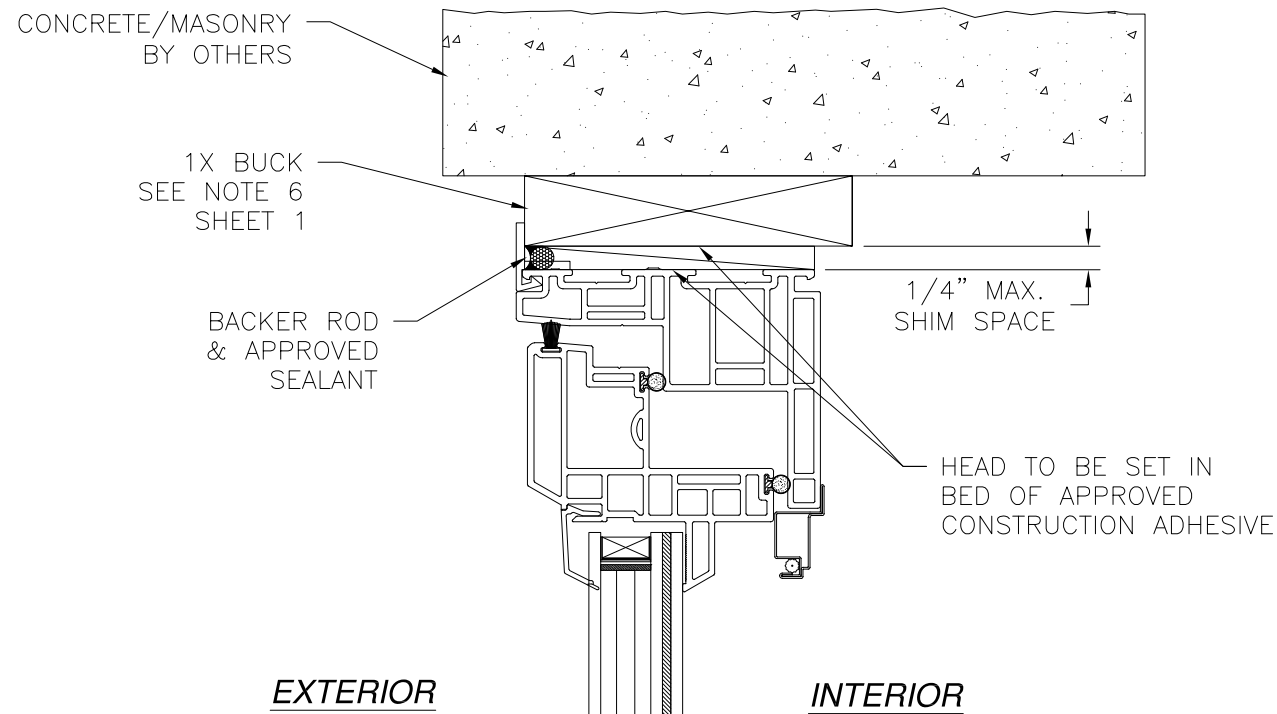
SHEET 7 OF 13

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

L. ROBERTO LOMAS
P.E.
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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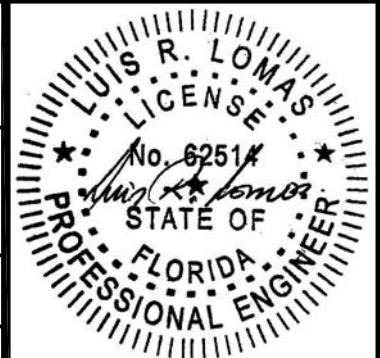


JAMB INSTALLATION DETAIL
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 FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
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APPROVED SEALANT BEHIND FIN

#6 WOOD SCREW

3/8" MIN EDGE DISTANCE

1 1/4" MIN. EMBEDMENT

WOOD FRAMING BY OTHERS

1/4" MAX. SHIM SPACE

EXTERIOR

INTERIOR

3/8" MIN EDGE DISTANCE

#6 WOOD SCREW

APPROVED SEALANT BEHIND FIN

1 1/4" MIN. EMBEDMENT

WOOD FRAMING BY OTHERS

1/4" MAX SHIM SPACE

VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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WOOD FRAMING BY OTHERS

#6 WOOD SCREW

1 1/4" MIN. EMBEDMENT

APPROVED SEALANT BEHIND FIN

3/8" MIN EDGE DISTANCE

1/4" MAX SHIM SPACE

INTERIOR

EXTERIOR

JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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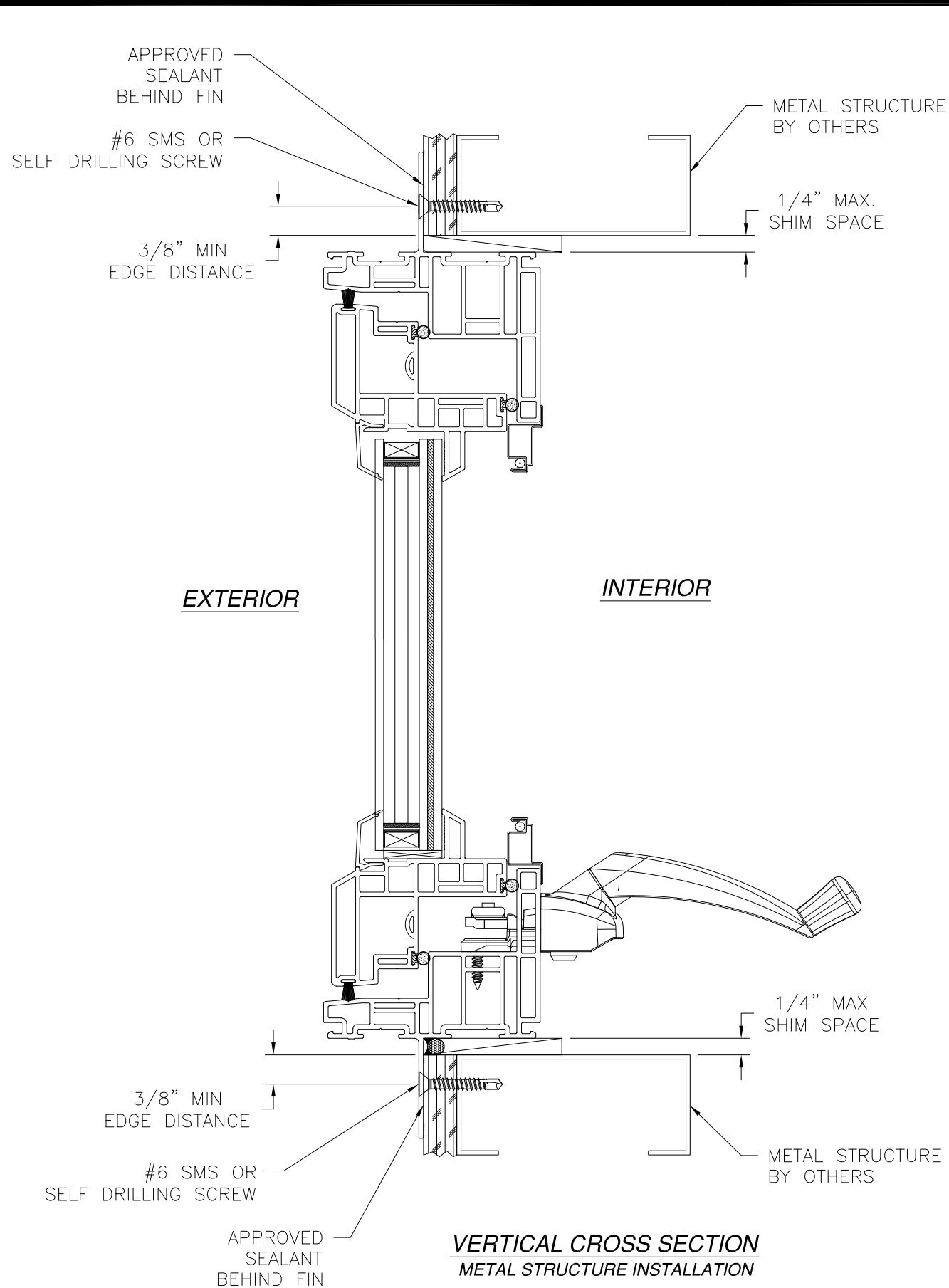
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9 OF 13

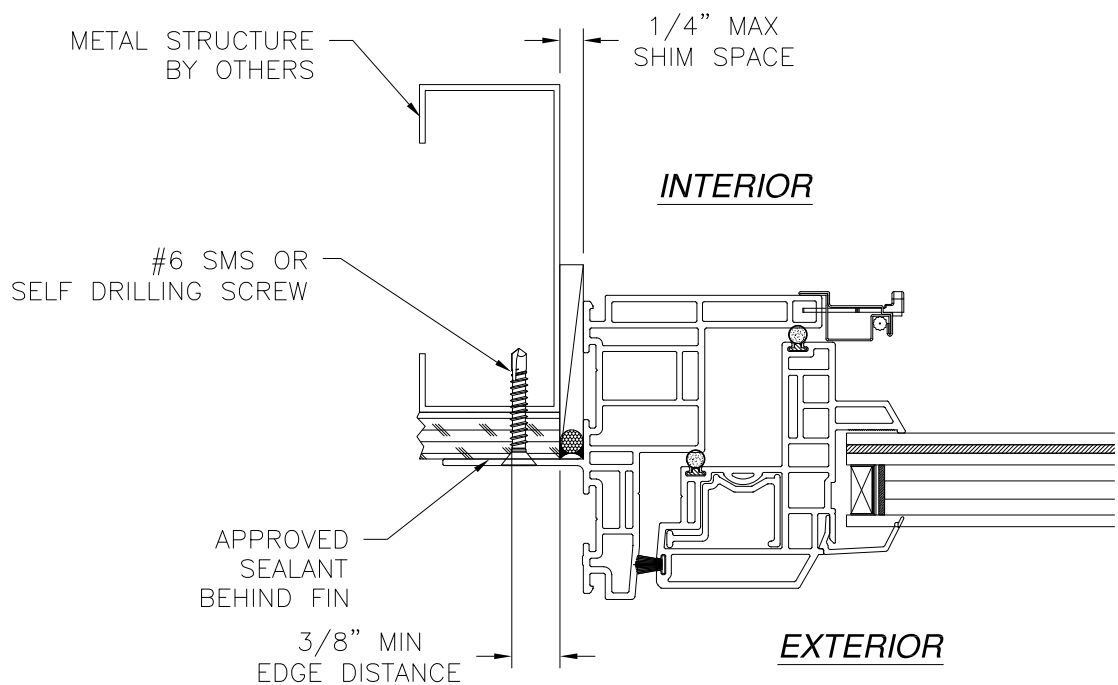
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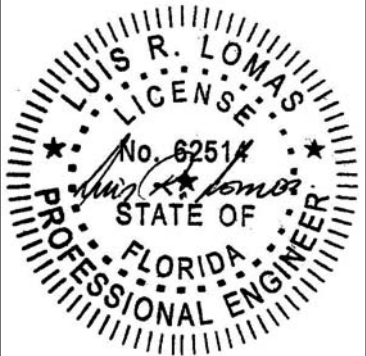


JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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APPROVED SEALANT BEHIND FIN

#6 WOOD SCREW

3/8" MIN EDGE DISTANCE

1 1/4" MIN. EMBEDMENT

WOOD FRAMING BY OTHERS

1/4" MAX. SHIM SPACE

EXTERIOR

INTERIOR

3/8" MIN EDGE DISTANCE

#6 WOOD SCREW

APPROVED SEALANT BEHIND FIN

1 1/4" MIN. EMBEDMENT

WOOD FRAMING BY OTHERS

1/4" MAX SHIM SPACE

VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

WOOD FRAMING BY OTHERS

#6 WOOD SCREW

1 1/4" MIN. EMBEDMENT

APPROVED SEALANT BEHIND FIN

3/8" MIN EDGE DISTANCE

1/4" MAX SHIM SPACE

INTERIOR

EXTERIOR

JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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

SIGNED: 11/14/2023

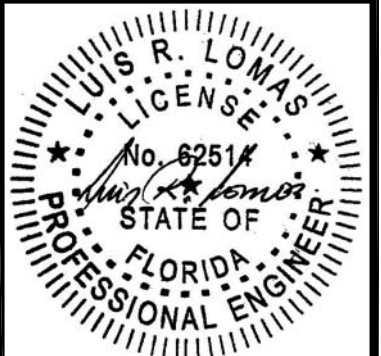
MI WINDOWS & DOORS, LLC

650 WEST MARKET STREET
GRATZ, PA 17030-0370

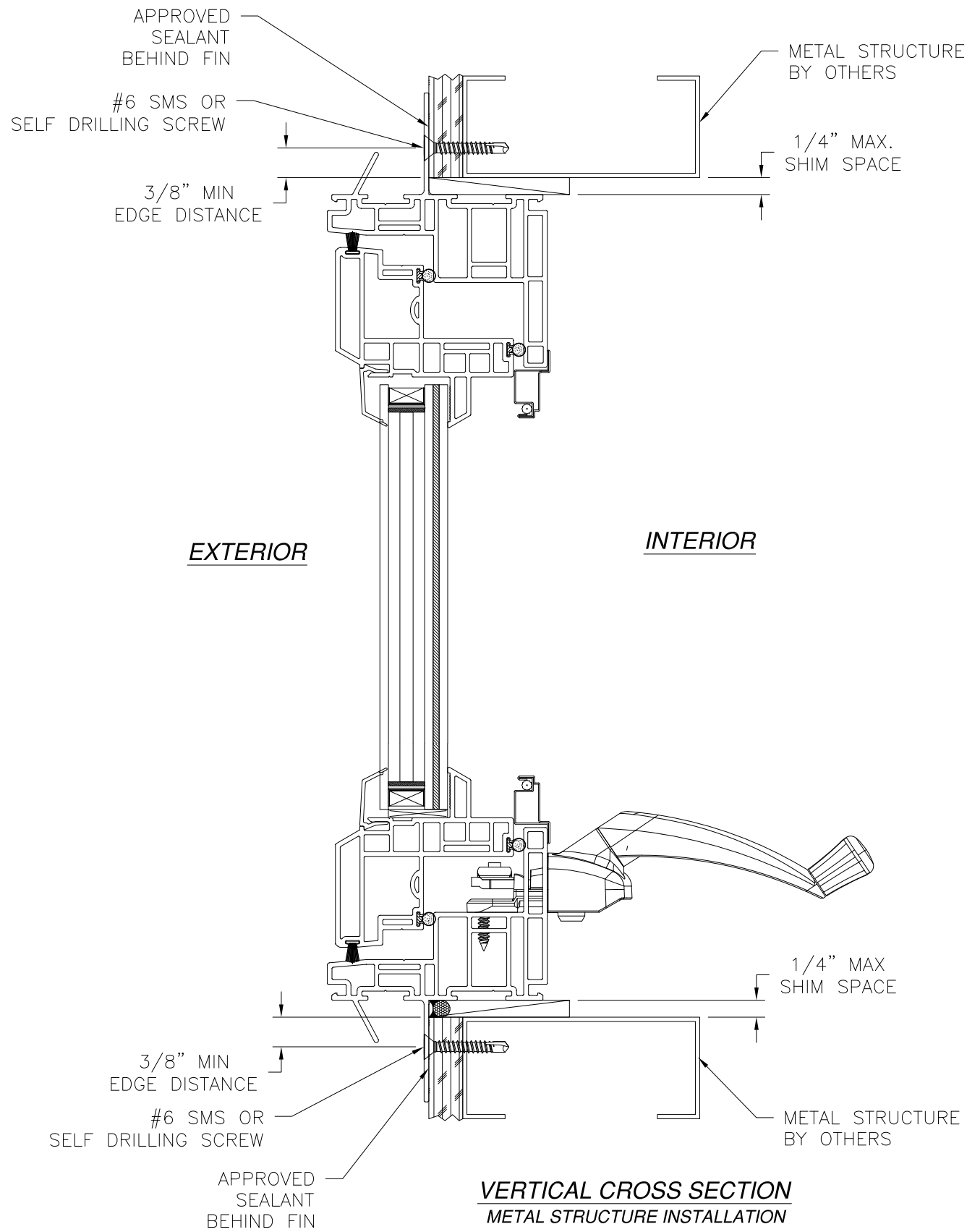
9770 CASEMENT PVC WINDOW
LARGE MISSILE IMPACT
FIN INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-01263	REV B
SCALE NTS	DATE 06/05/11	SHEET 11 OF 13

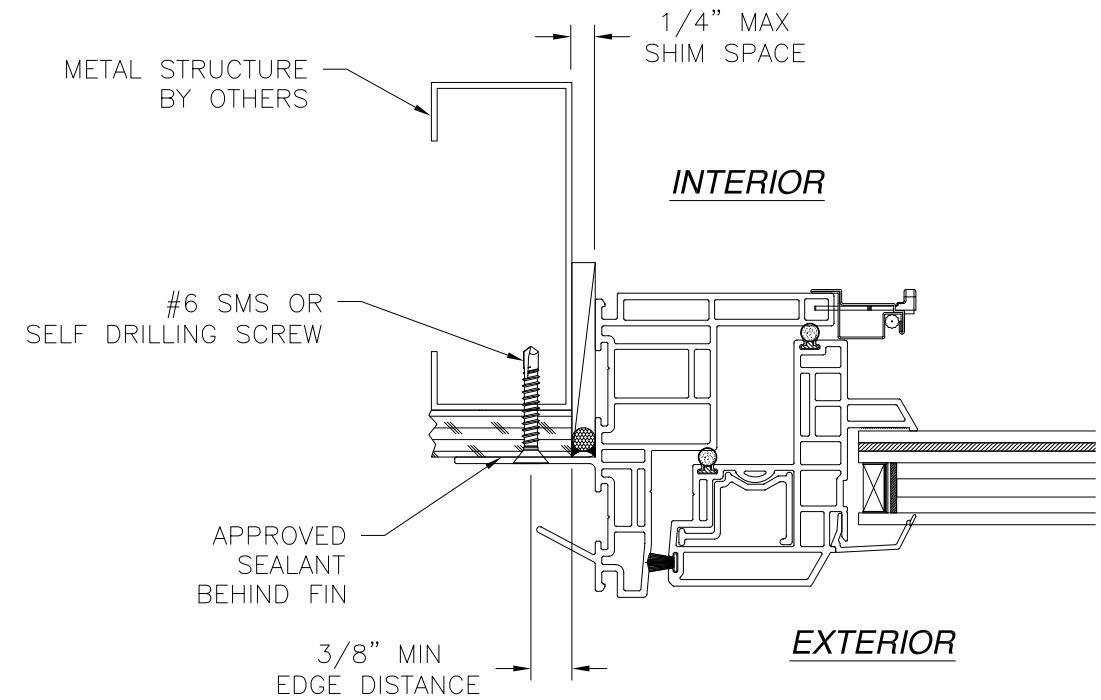
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



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



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW CODE	10/30/2023	R.L.

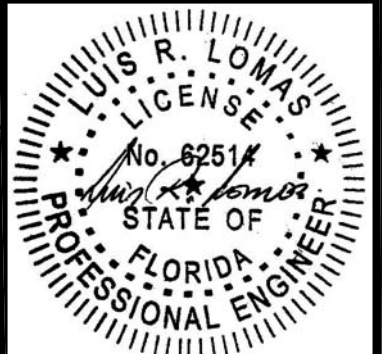


JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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

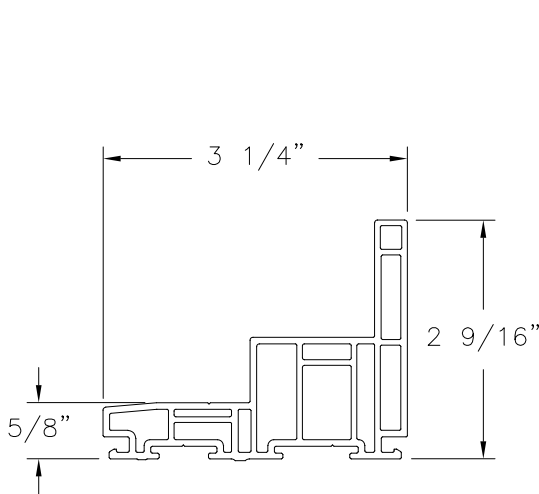
SIGNED: 11/14/2023

MI WINDOWS & DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
9770 CASEMENT PVC WINDOW LARGE MISSILE IMPACT FIN INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-01263	REV B
SCALE NTS	DATE 06/05/11	SHEET 12 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

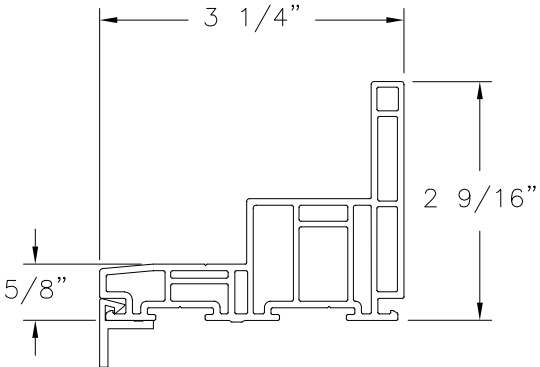


Luis R. Lomas P.E.
FL No.: 62514

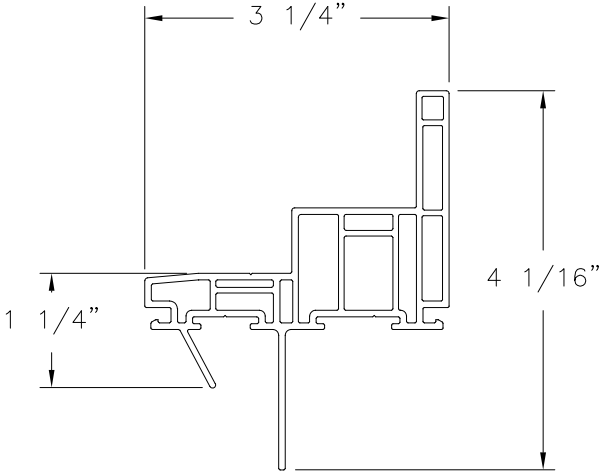
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW CODE	10/30/2023	R.L.



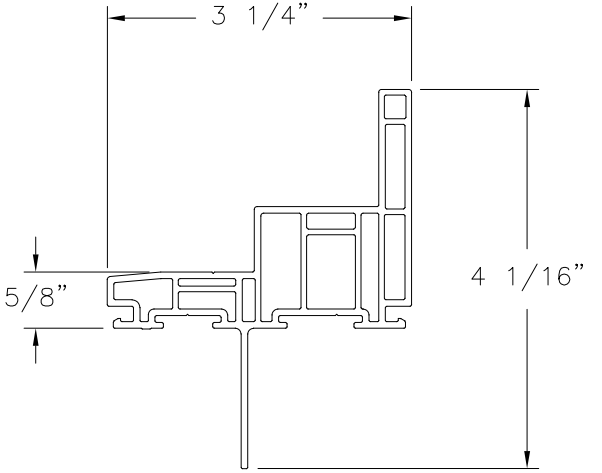
MAIN FRAME
FINLESS INSTALLATION
PVC (V-911)



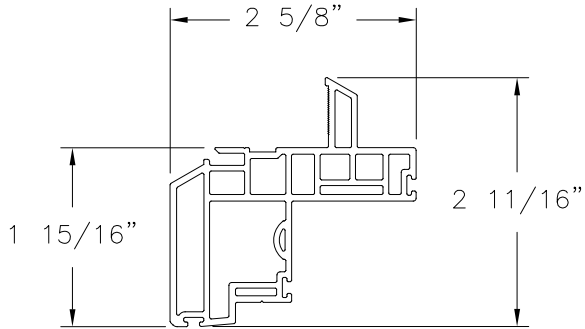
MAIN FRAME
FLANGE INSTALLATION
PVC (V-911)



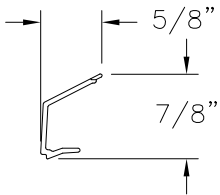
MAIN FRAME WITH J CHANNEL
FIN INSTALLATION
PVC (V-899)



MAIN FRAME
FIN INSTALLATION
PVC (V-910)



SASH
PVC (V-900)



GLAZING BEAD
PVC (V-902)

SIGNED: 11/14/2023

MI WINDOWS & DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
9770 CASEMENT PVC WINDOW LARGE MISSILE IMPACT COMPONENTS		
DRAWN: R.L.	DWG NO. 08-01263	REV B
SCALE NTS	DATE 06/05/11	SHEET 13 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



Luis R. Lomas P.E.
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