

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 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. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
4. 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.
5. 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.
6. 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.
7. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. 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”.
9. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME MATERIAL: ALUMINUM 6063–T5.
12. UNITS MUST BE GLAZED PER ASTM E1300–04/09, SEE SHEET 15 FOR GLAZING DETAIL.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. 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.

15. FOR ANCHORING THROUGH FIN INTO METAL STRUCTURE USE #8 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 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.
17. 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.
18. 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.
19. ALL FASTENERS TO BE CORROSION RESISTANT.
20. 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 3,192 PSI.

C. MASONRY – STRENGTH CONFORMANCE TO ASTM C–90, GRADE N, TYPE 1 (OR GREATER).

D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063–T5 .048” THICK MINIMUM
21. GEOMETRIC SHAPES ARE ALSO APPROVED. APPROVED GEOMETRIC SHAPES DIMENSIONS SHALL NOT EXCEED INSCRIBED DIMENSIONS OF APPROVED RECTANGULAR ASSEMBLY SHOWN IN SHEET 2, 3 AND 4.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2 – 4	ELEVATIONS
5 – 14	INSTALLATION DETAILS
15	COMPONENTS

MI WINDOWS AND DOORS, LLC

650 W. MARKET ST.
GRATZ, PA 17030

185 PICTURE WINDOW
IMPACT 37” x 78”
NOTES

DRAWN:
A.R.

DWG NO.
08–03372

REV
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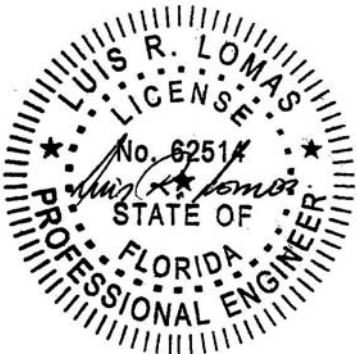
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DATE 03/12/19

SHEET 1 OF 15

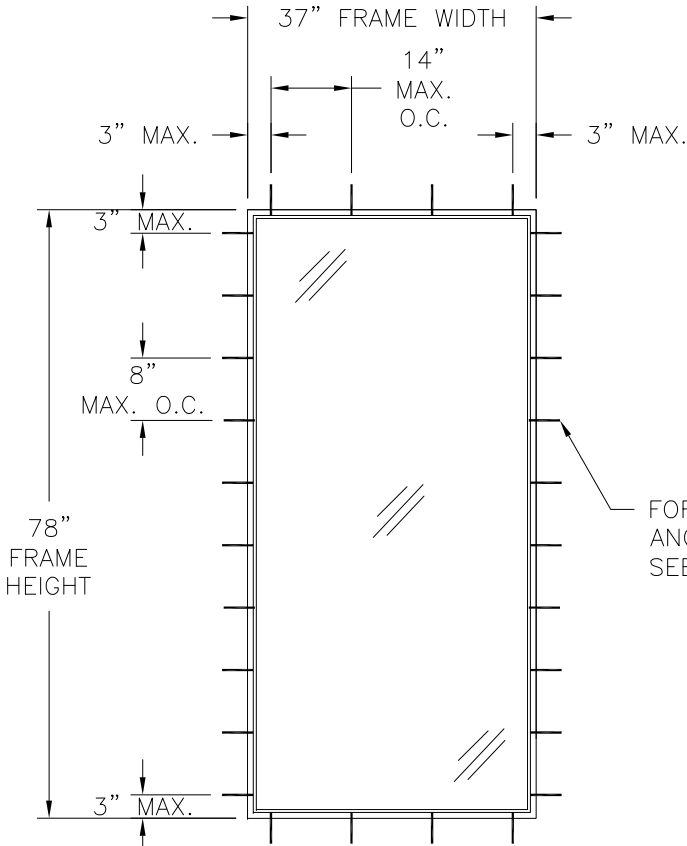
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 03/26/2019

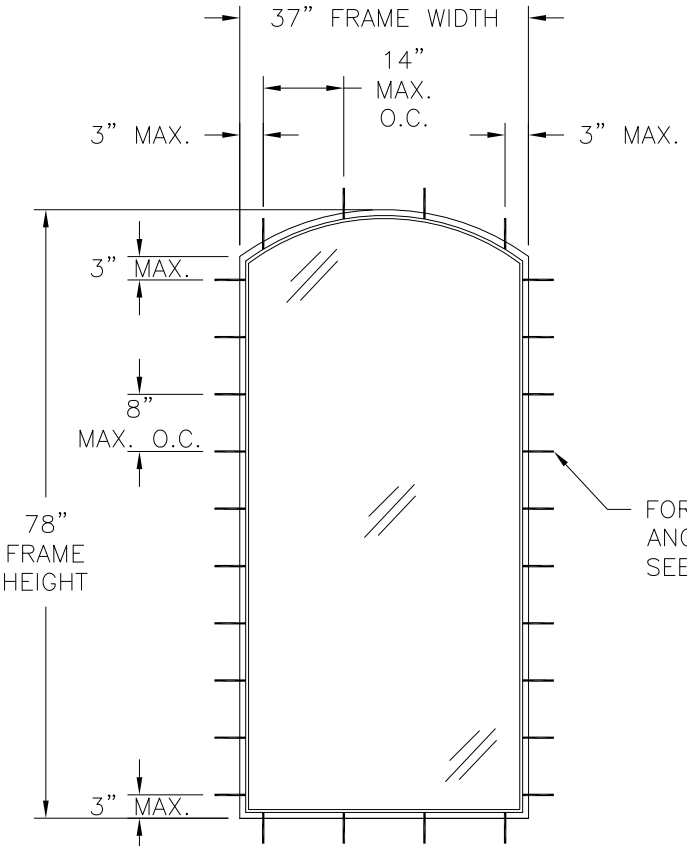


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



185 FIXED WINDOW
EXTERIOR VIEW
FLANGE & FINLESS INSTALLATION
WITHOUT FILLERS



185 FIXED WINDOW DESIGNER
EXTERIOR VIEW
FLANGE & FINLESS INSTALLATION
WITHOUT FILLERS

DESIGN PRESSURE RATING	IMPACT RATING
+50.0/-63.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3
37" X 78" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS
FRAME AREA DOES NOT EXCEED 20.04 FT²

CHART #1

Number of anchor locations required without rigid fillers						
Frame Height (in)	Frame width (in)					
	24.00		30.00		37.00	
	H&S	Jamb	H&S	Jamb	H&S	Jamb
24.00	3	4	3	4	4	4
30.00	3	4	3	4	4	4
36.00	3	5	3	5	4	5
42.00	3	6	3	6	4	6
48.00	3	7	3	7	4	7
54.00	3	7	3	7	4	7
60.00	3	8	3	8	4	8
66.00	3	9	3	9	4	9
72.00	3	10	3	10	4	10
78.00	3	10	3	10	4	10

NOTES:
1. D.L.O. SIZE: 34 1/4" X 75 1/4"

SIGNED: 03/26/2019

MI WINDOWS AND DOORS, LLC
650 W. MARKET ST.
GRATZ, PA 17030

185 PICTURE WINDOW
IMPACT 37" x 78"
FLANGE & FINLESS ELEVATIONS WITHOUT FILLERS

DRAWN:
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DWG NO.
08-03372

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SCALE
NTS

DATE
03/12/19

SHEET
2 OF 15

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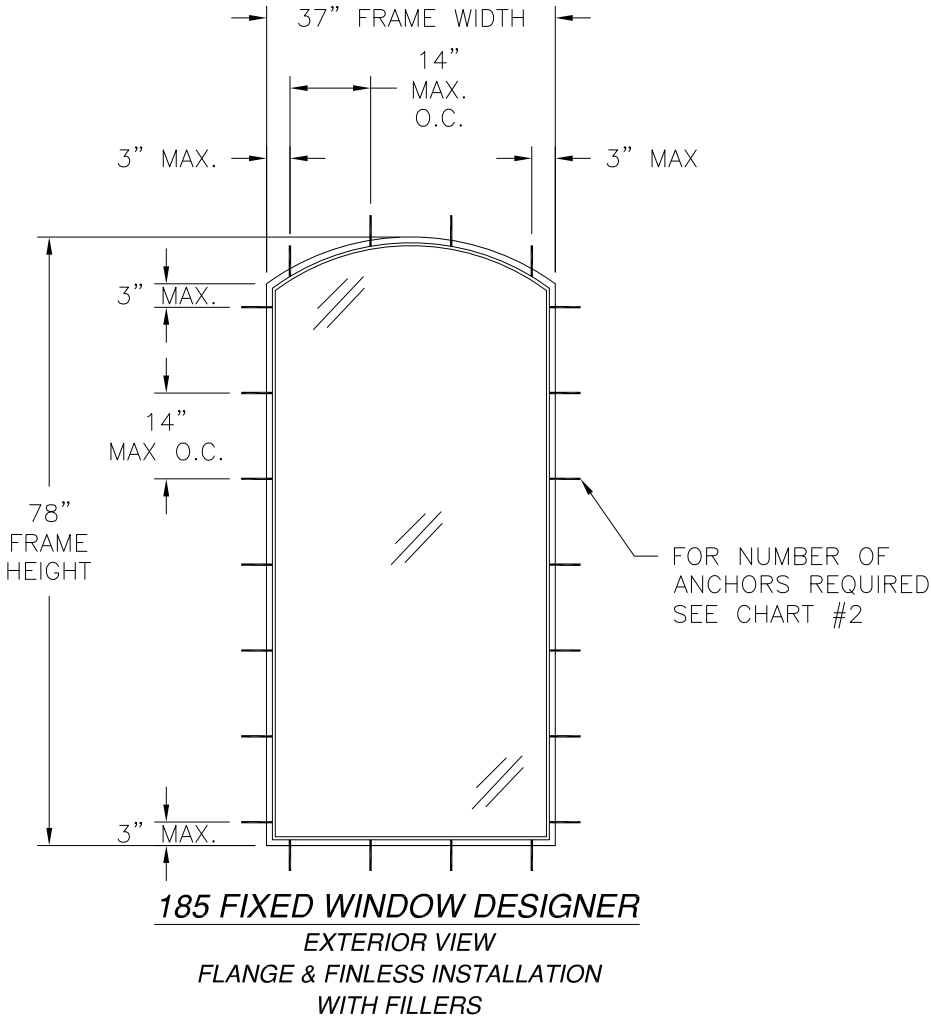
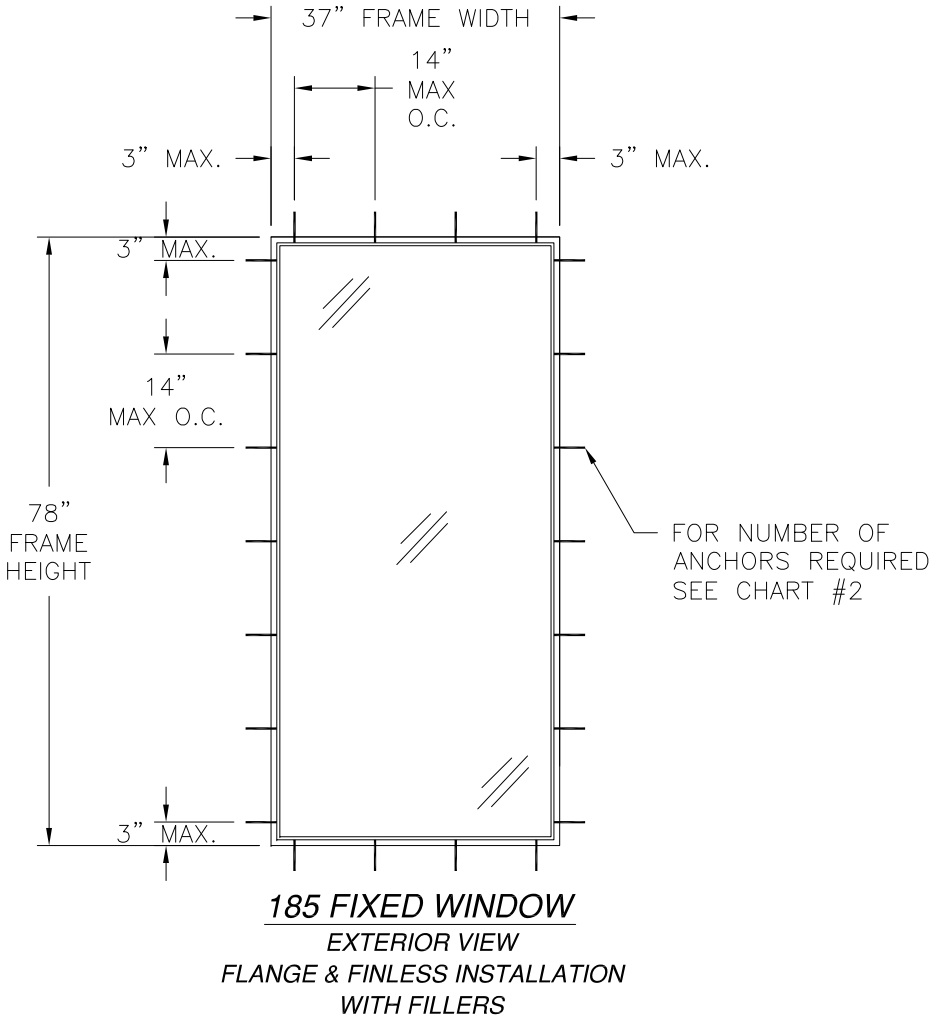


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NOTES:
1. D.L.O. SIZE: 34 1/4" X 75 1/4"

CHART #2 Number of anchor locations required with rigid fillers						
Frame Height (in)	Frame width (in)					
	24.00		30.00		37.00	
	H&S	Jamb	H&S	Jamb	H&S	Jamb
24.00	3	3	3	3	4	3
30.00	3	3	3	3	4	3
36.00	3	4	3	4	4	4
42.00	3	4	3	4	4	4
48.00	3	4	3	4	4	4
54.00	3	5	3	5	4	5
60.00	3	5	3	5	4	5
66.00	3	6	3	6	4	6
72.00	3	6	3	6	4	6
78.00	3	7	3	7	4	7



DESIGN PRESSURE RATING	IMPACT RATING
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37" X 78" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS FRAME AREA DOES NOT EXCEED 20.04 FT²

MI WINDOWS AND DOORS, LLC
650 W. MARKET ST.
GRATZ, PA 17030

185 PICTURE WINDOW
IMPACT 37" x 78"
FLANGE & FINLESS ELEVATIONS WITH FILLERS

DRAWN: A.R.	DWG NO. 08-03372	REV -
SCALE NTS	DATE 03/12/19	SHEET 3 OF 15

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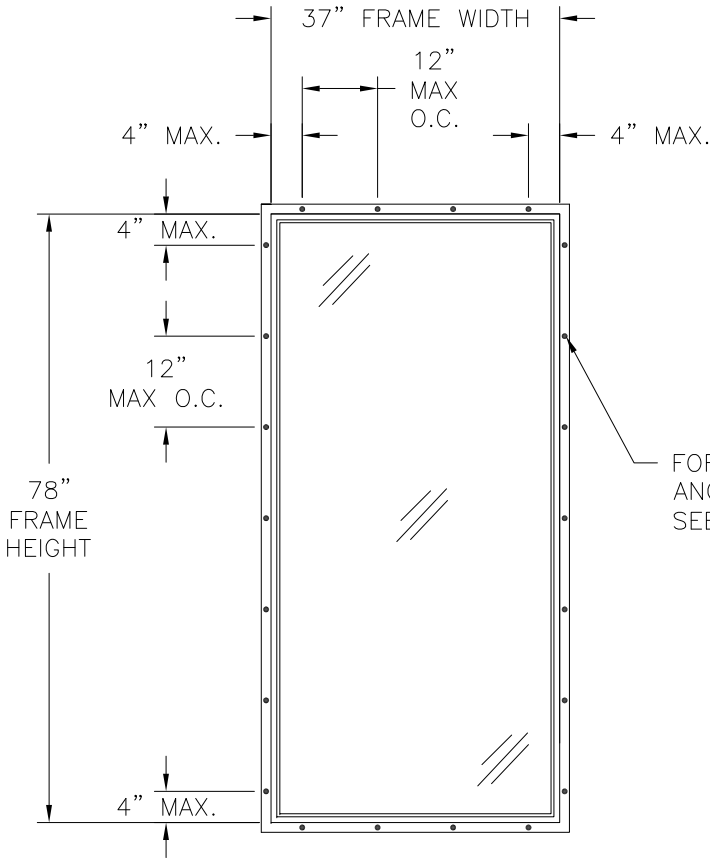


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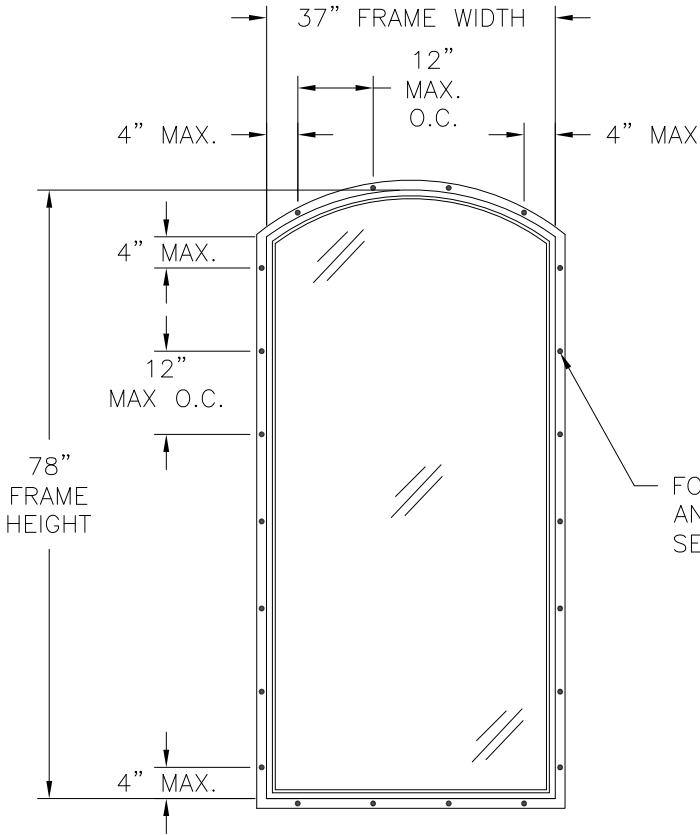
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NOTES:
1. D.L.O. SIZE: 34 1/4" X 75 1/4"

CHART #3 Number of anchor locations required for Fin Installation						
Frame Height (in)	Frame width (in)					
	24.00		30.00		37.00	
	H&S	Jamb	H&S	Jamb	H&S	Jamb
24.00	3	3	3	3	4	3
30.00	3	3	3	3	4	3
36.00	3	4	3	4	4	4
42.00	3	4	3	4	4	4
48.00	3	5	3	5	4	5
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66.00	3	6	3	6	4	6
72.00	3	7	3	7	4	7
78.00	3	7	3	7	4	7



185 FIXED WINDOW
EXTERIOR VIEW
FIN INSTALLATION



185 FIXED WINDOW DESIGNER
EXTERIOR VIEW
FIN INSTALLATION

DESIGN PRESSURE RATING	IMPACT RATING
+50.0/-63.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3
37" X 78" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS
FRAME AREA DOES NOT EXCEED 20.04 FT²

MI WINDOWS AND DOORS, LLC
650 W. MARKET ST.
GRATZ, PA 17030

185 PICTURE WINDOW
IMPACT 37" x 78"
FIN ELEVATIONS

DRAWN: A.R. DWG NO. 08-03372 REV -

SCALE NTS DATE 03/12/19 SHEET 4 OF 15

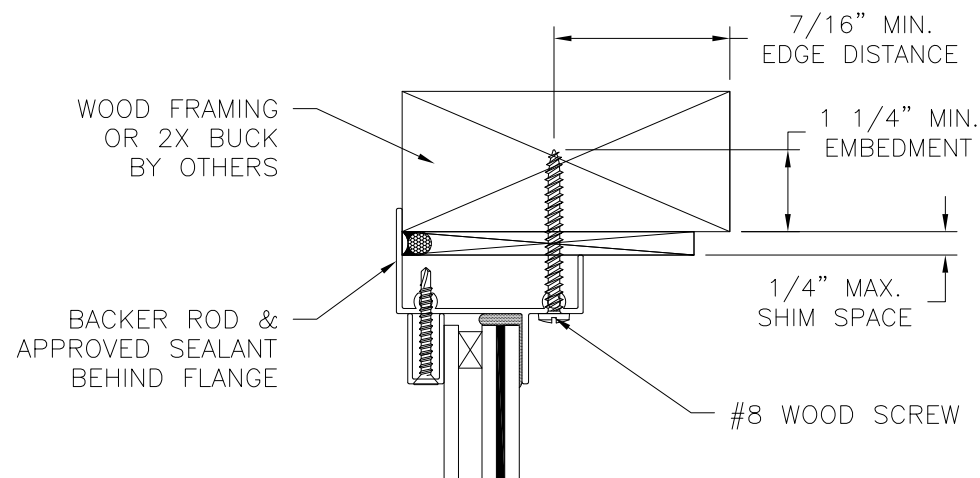
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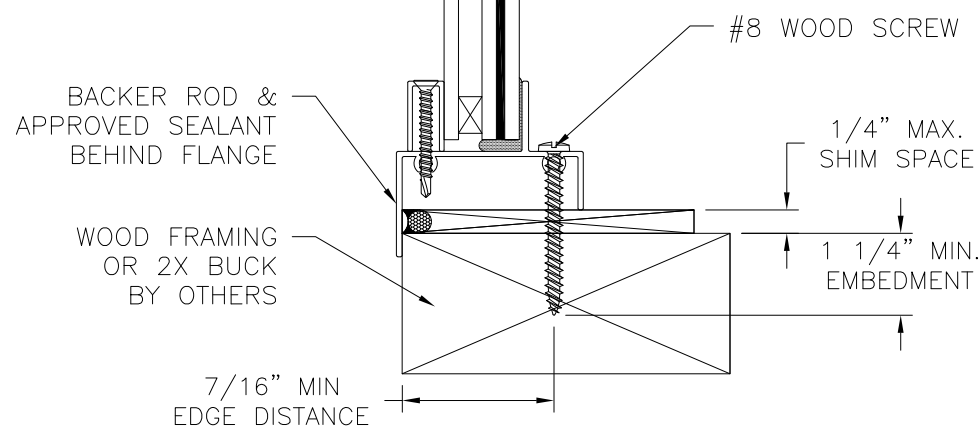
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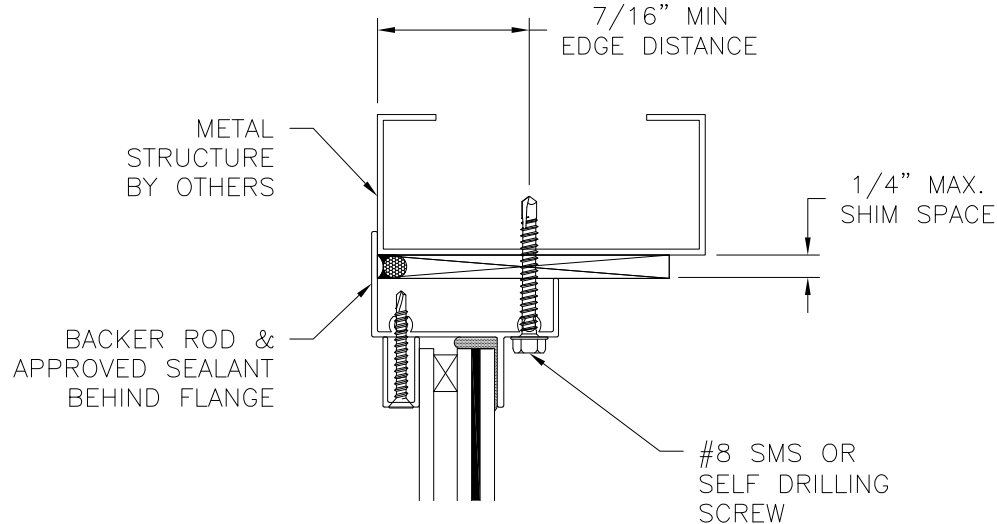


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INTERIOR

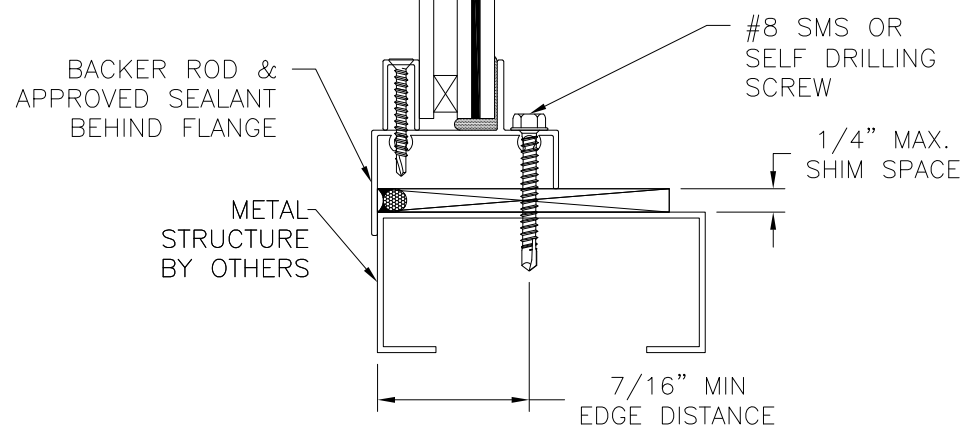


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



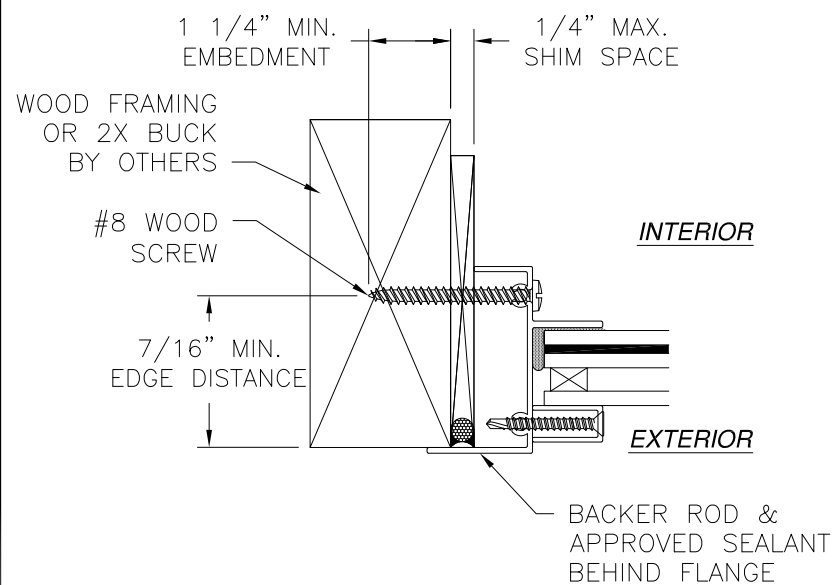
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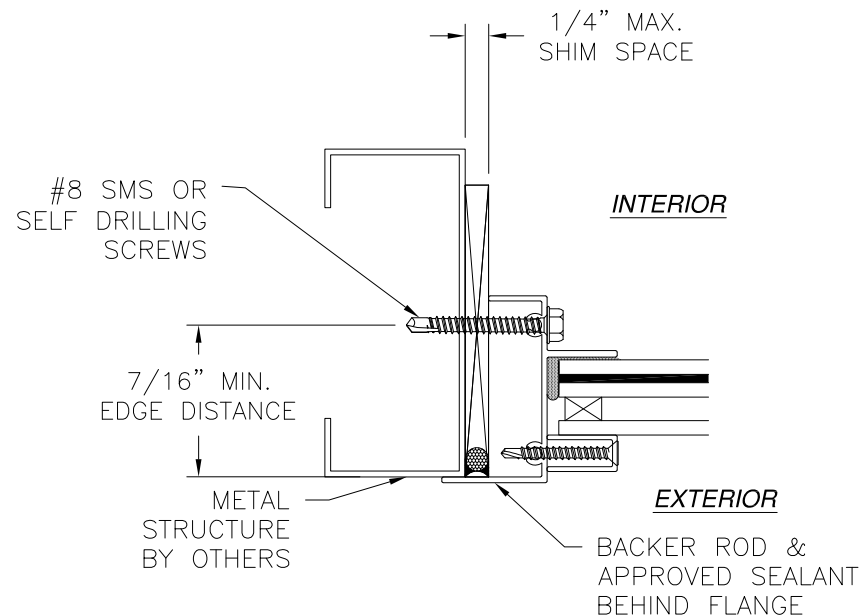


VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

- 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



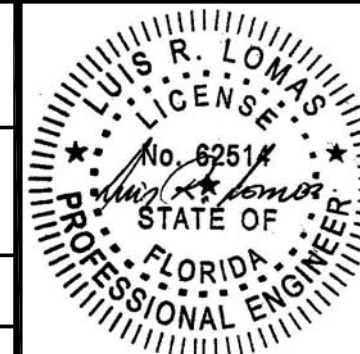
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

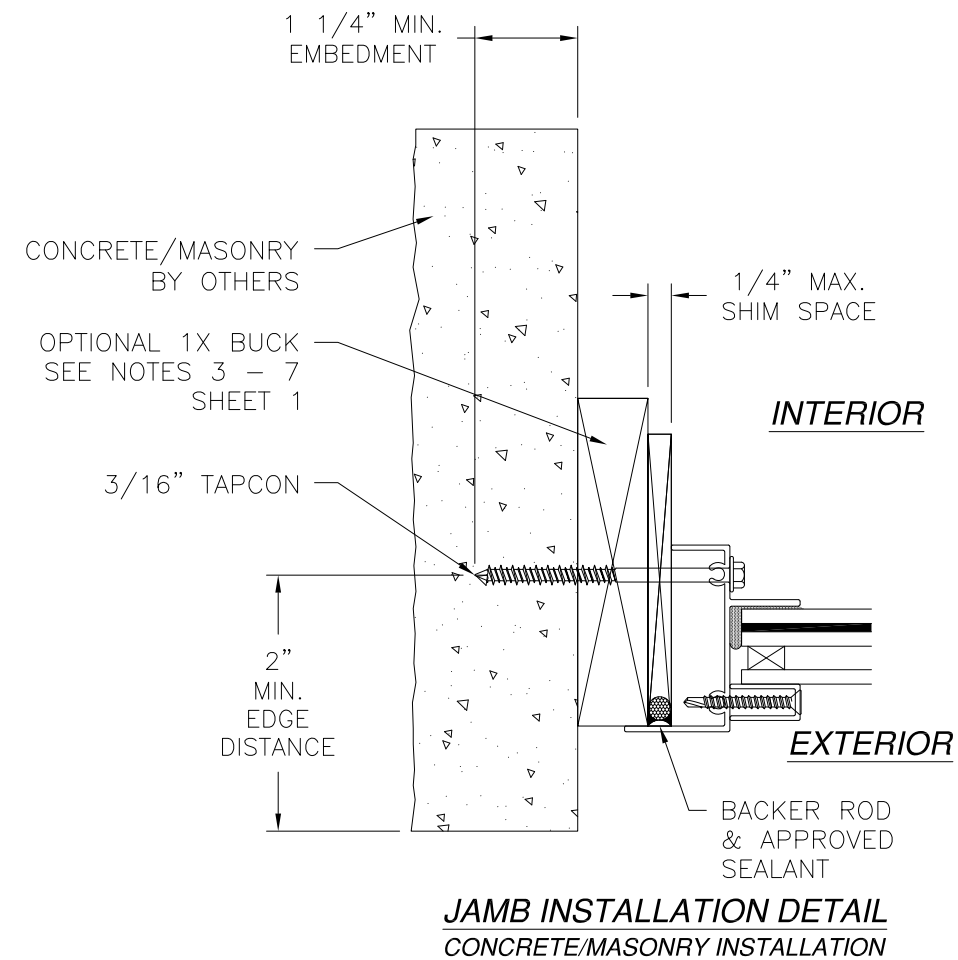
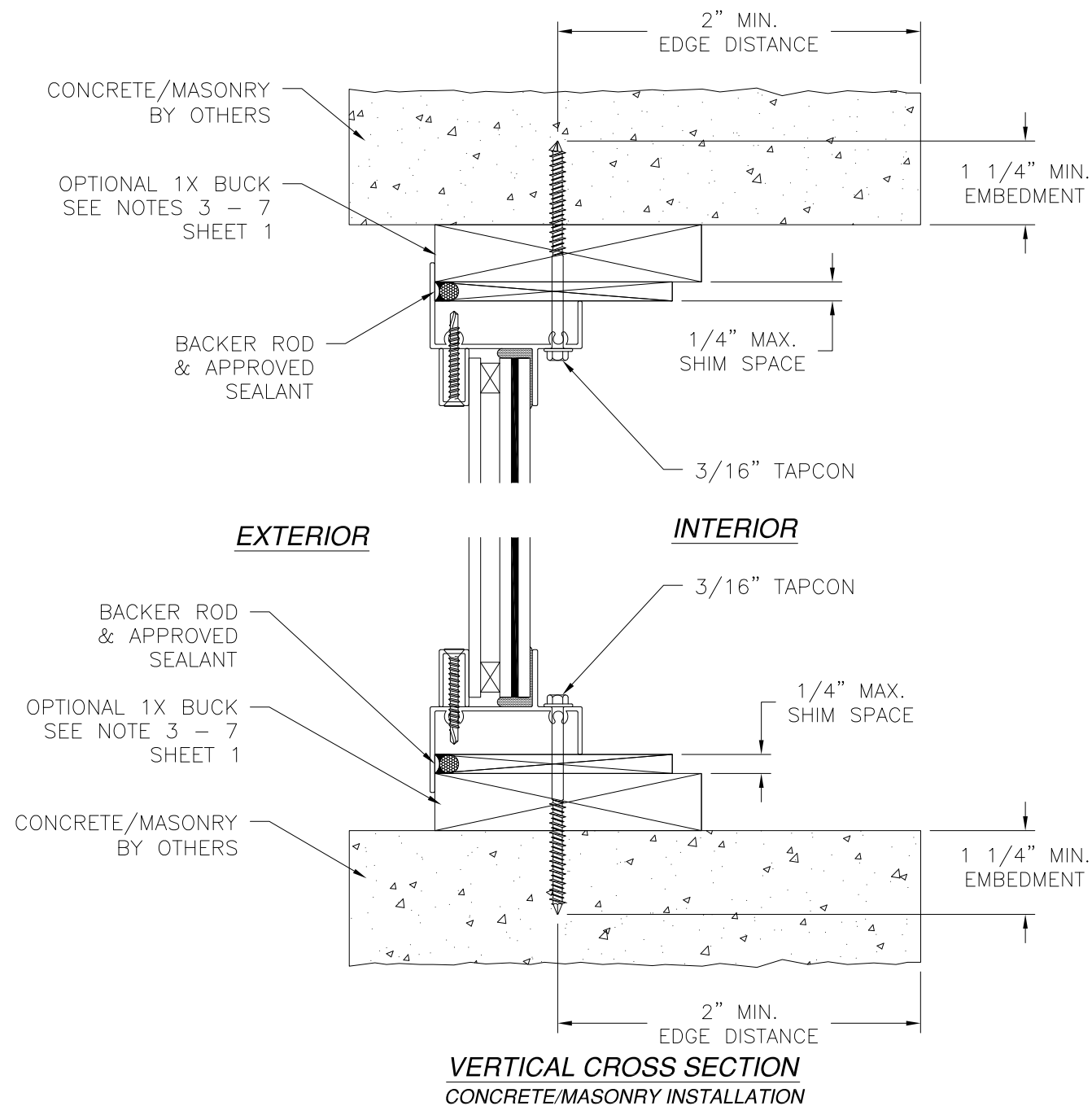
MI WINDOWS AND DOORS, LLC		
650 W. MARKET ST. GRATZ, PA 17030		
185 PICTURE WINDOW IMPACT 37" x 78" FLANGE INSTALLATION DETAILS WITHOUT FILLERS		
DRAWN: A.R.	DWG NO. 08-03372	REV -
SCALE NTS	DATE 03/12/19	SHEET 5 OF 15
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

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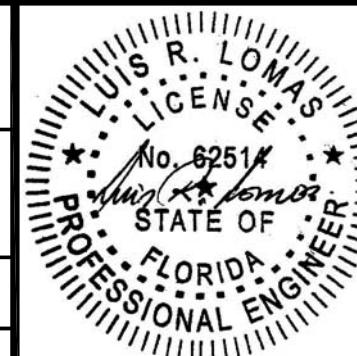


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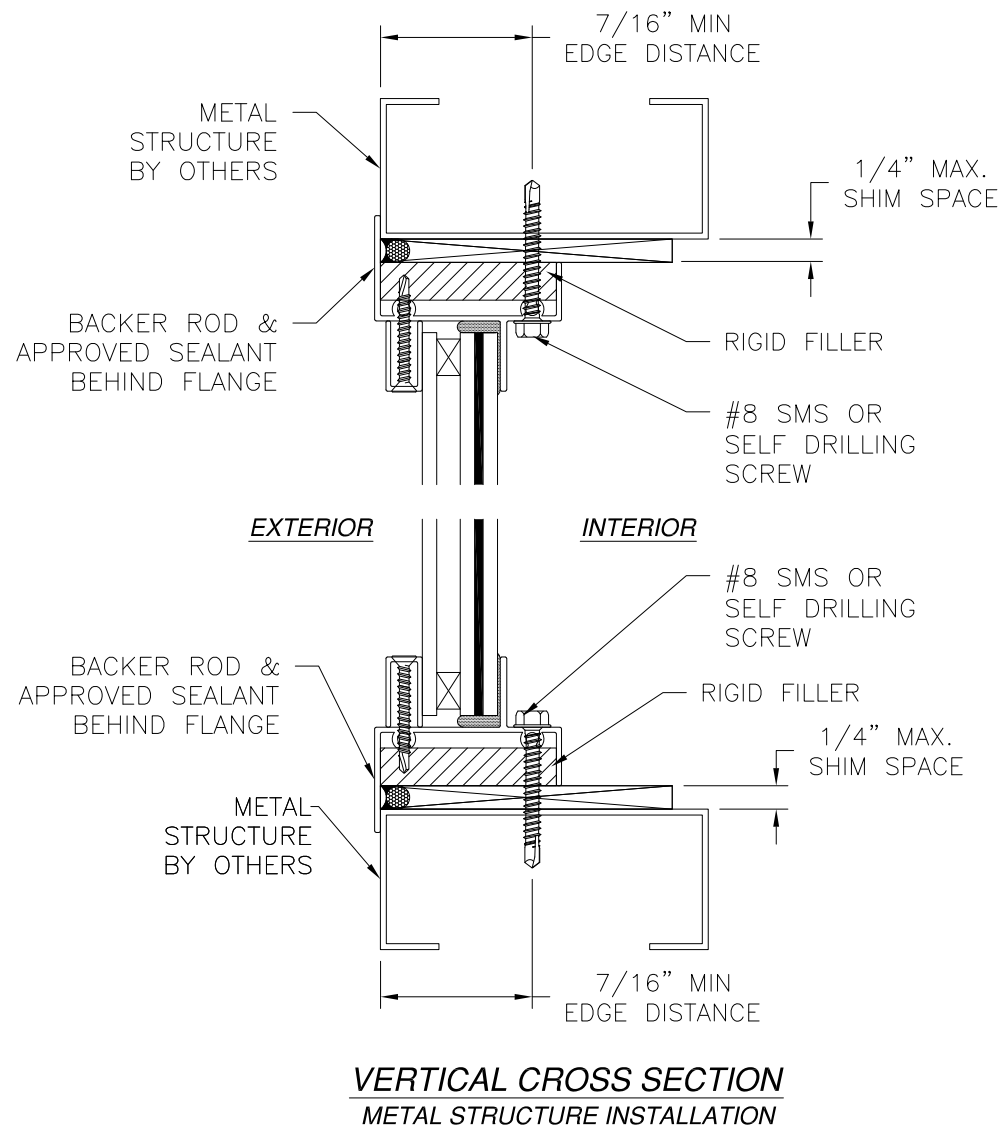
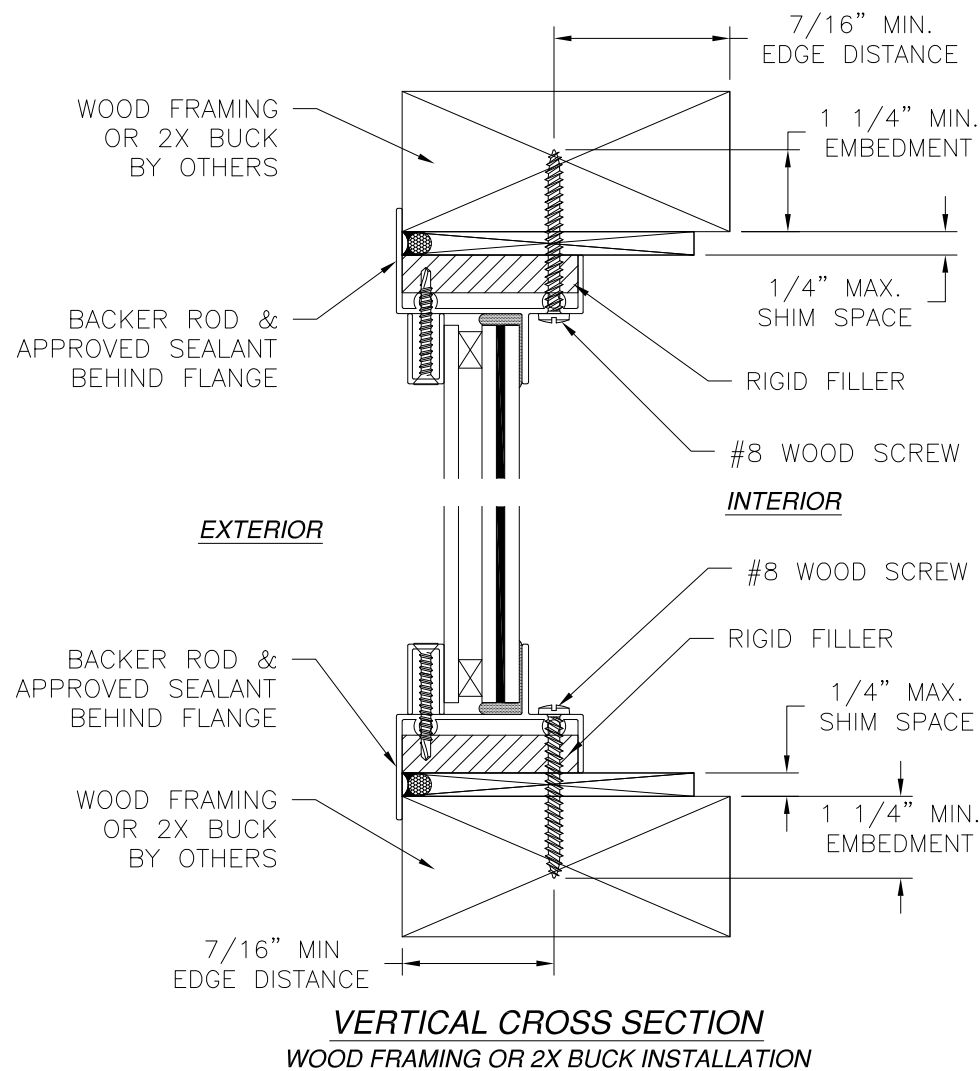
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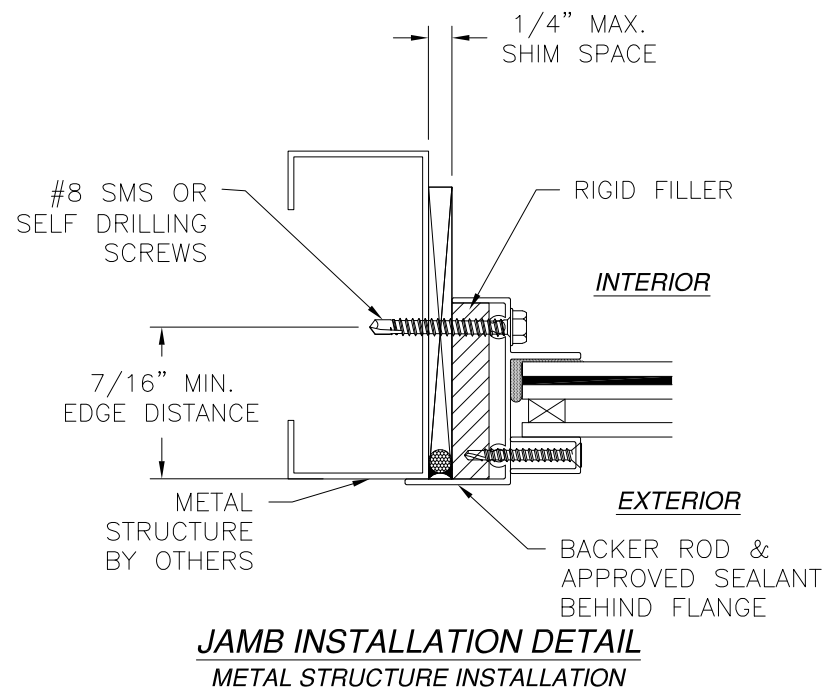
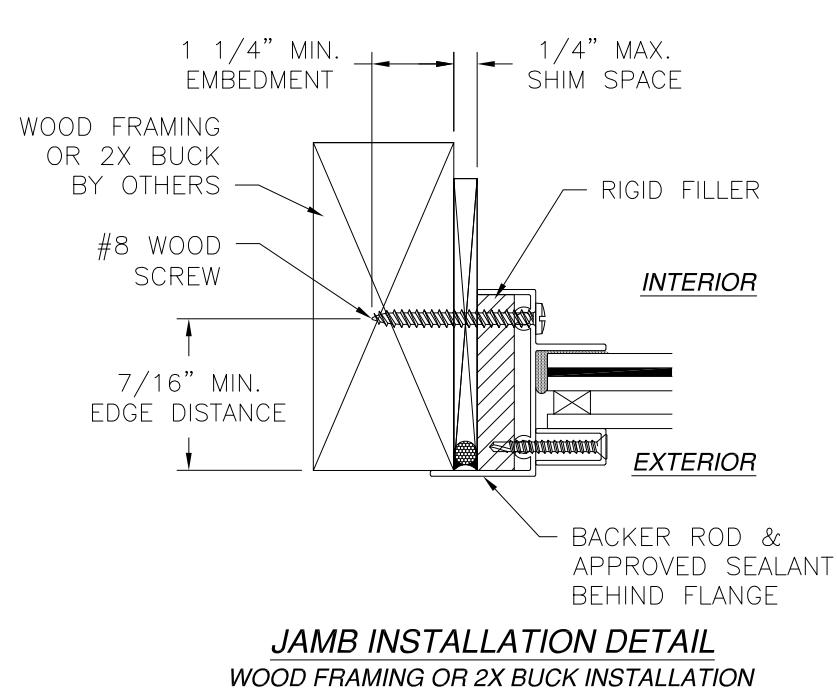


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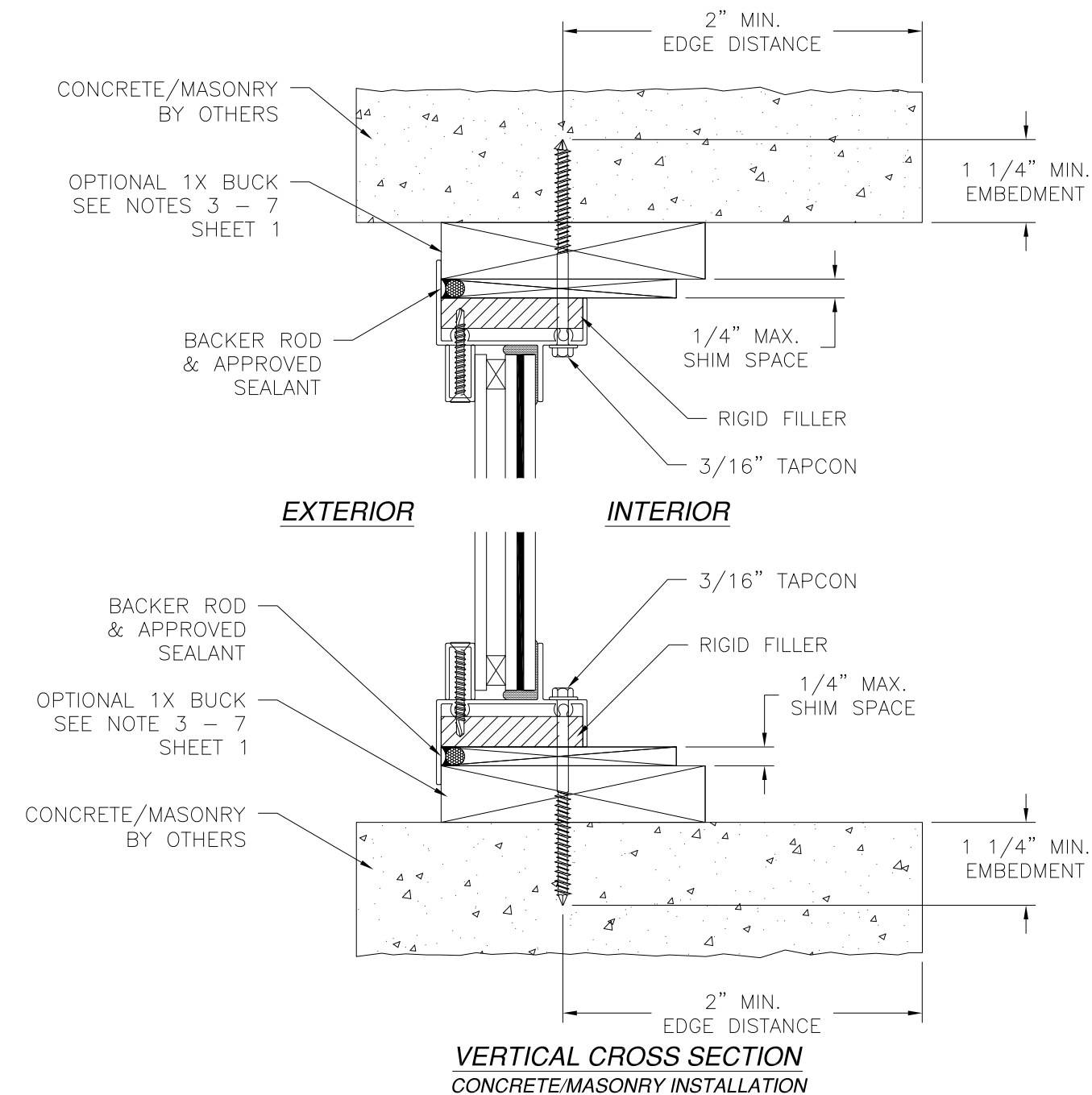


MI WINDOWS AND DOORS, LLC		
650 W. MARKET ST. GRATZ, PA 17030		
185 PICTURE WINDOW IMPACT 37" x 78"		
FLANGE INSTALLATION DETAILS WITH RIGID FILLERS		
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L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

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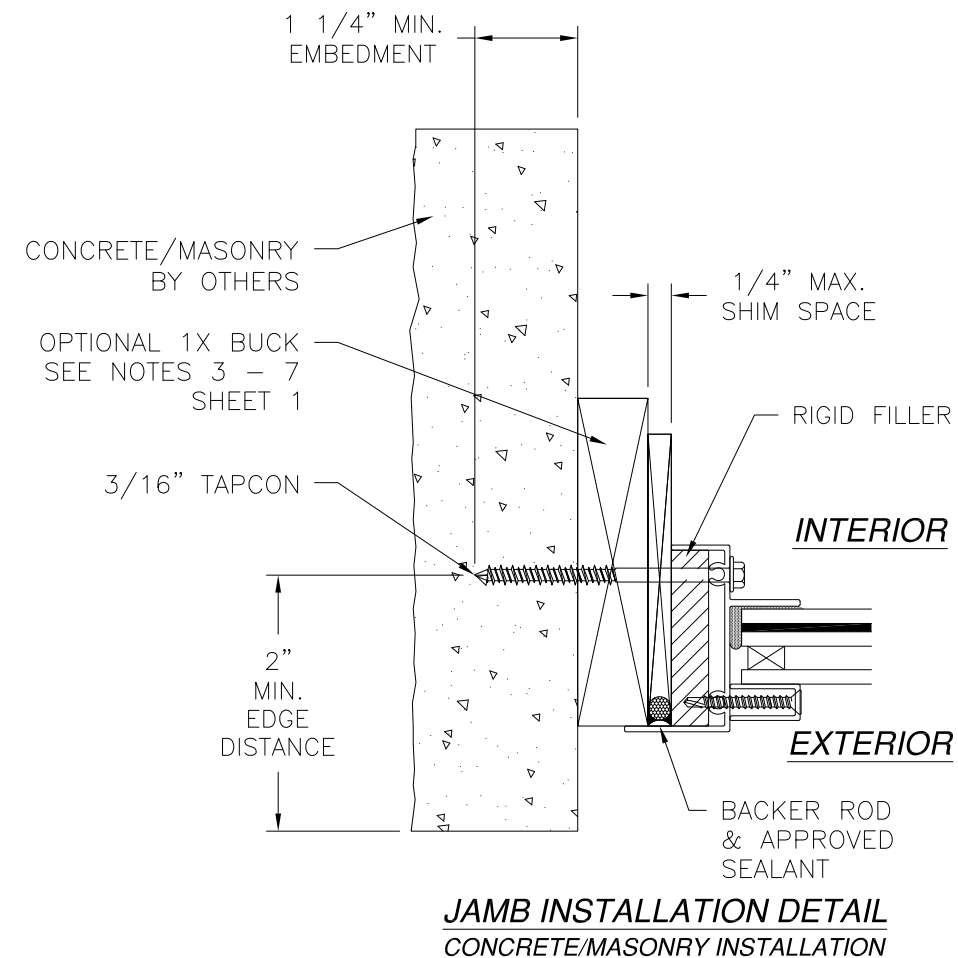
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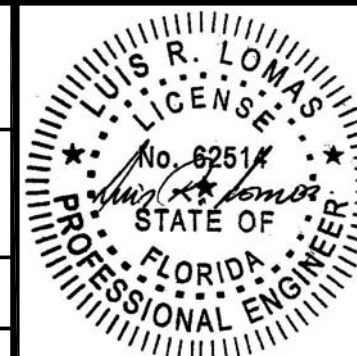
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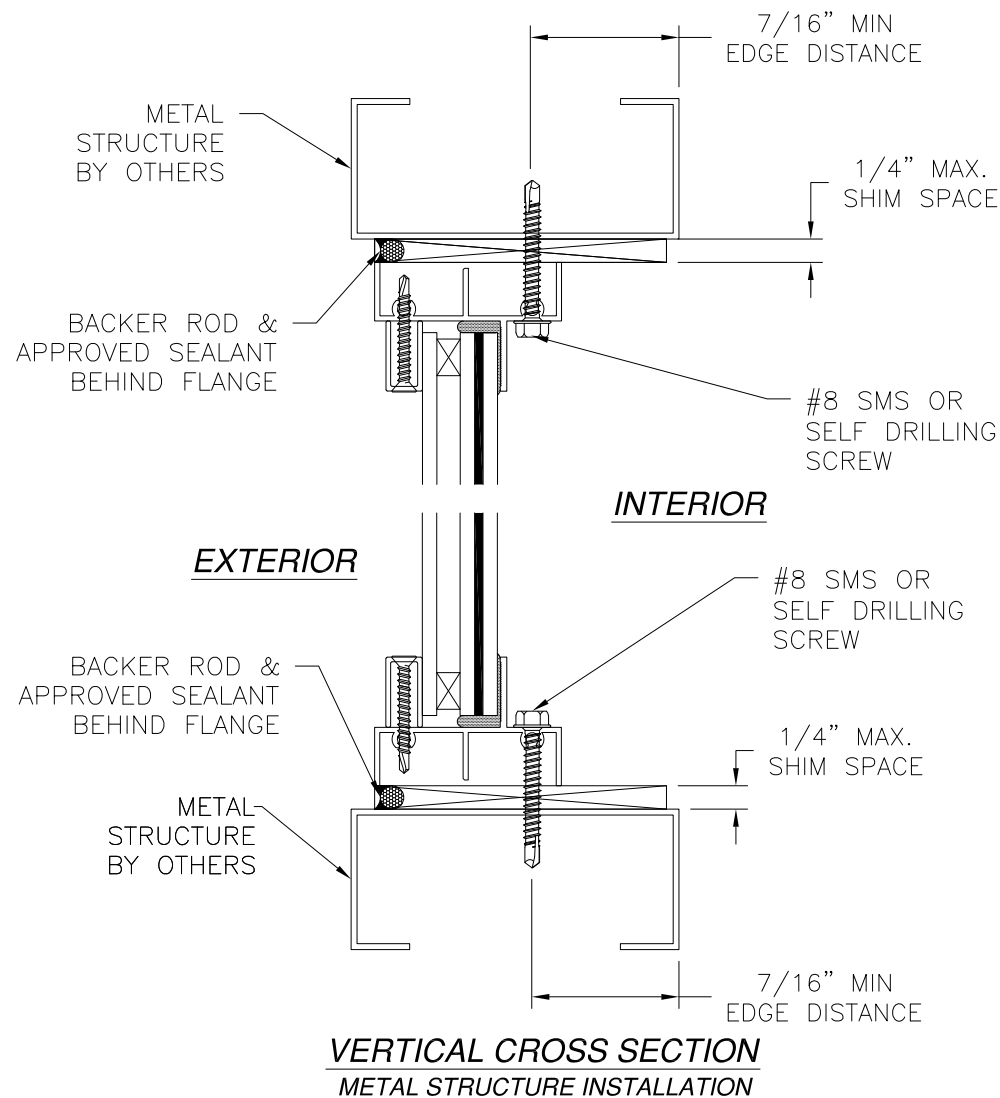
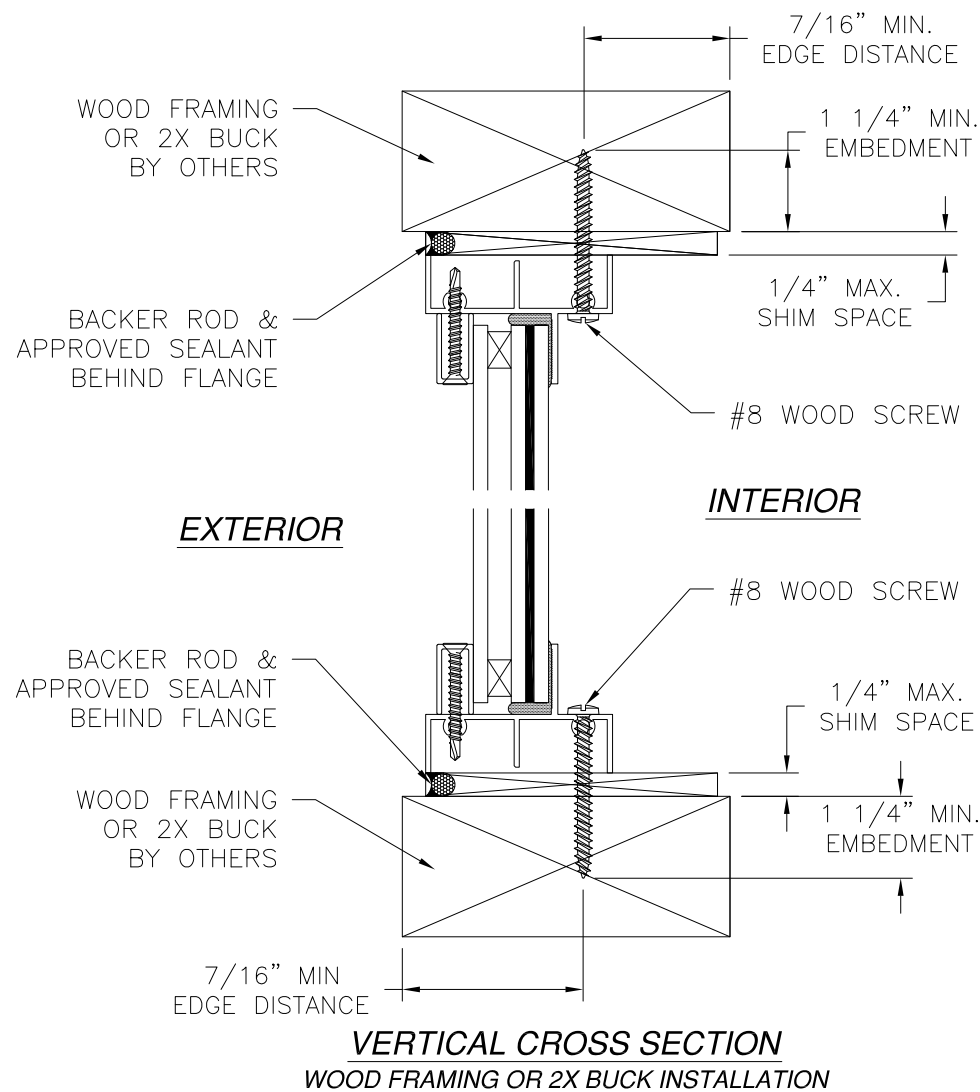
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L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

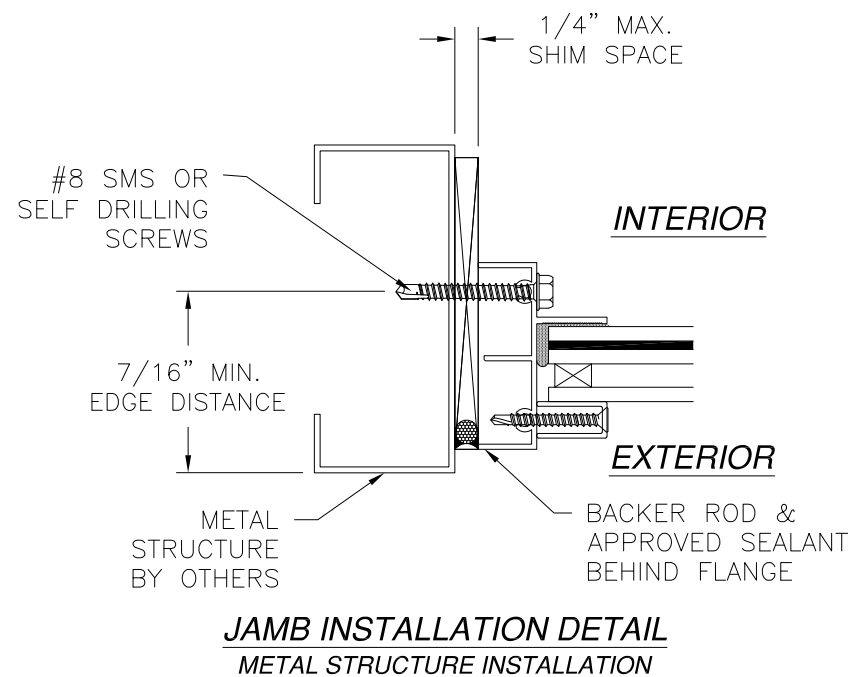
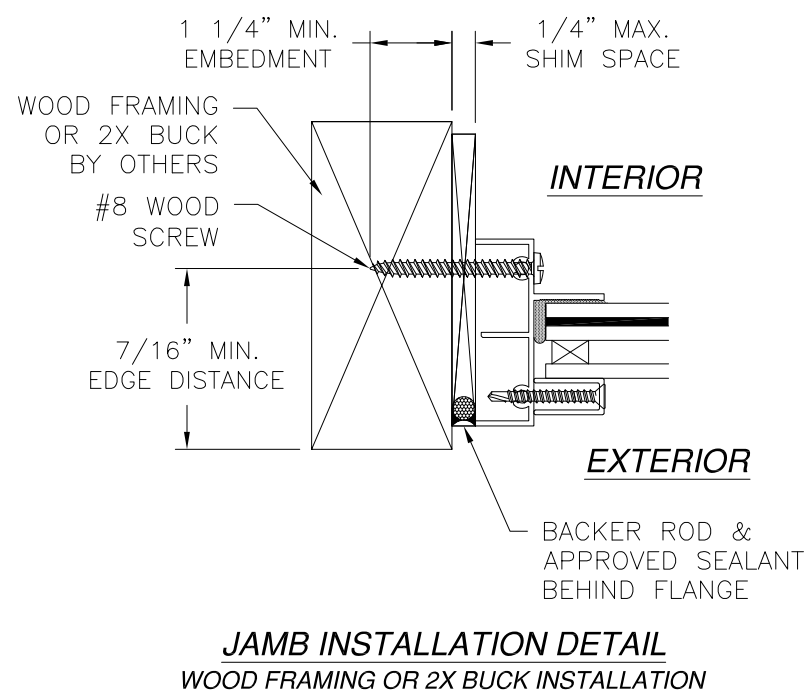


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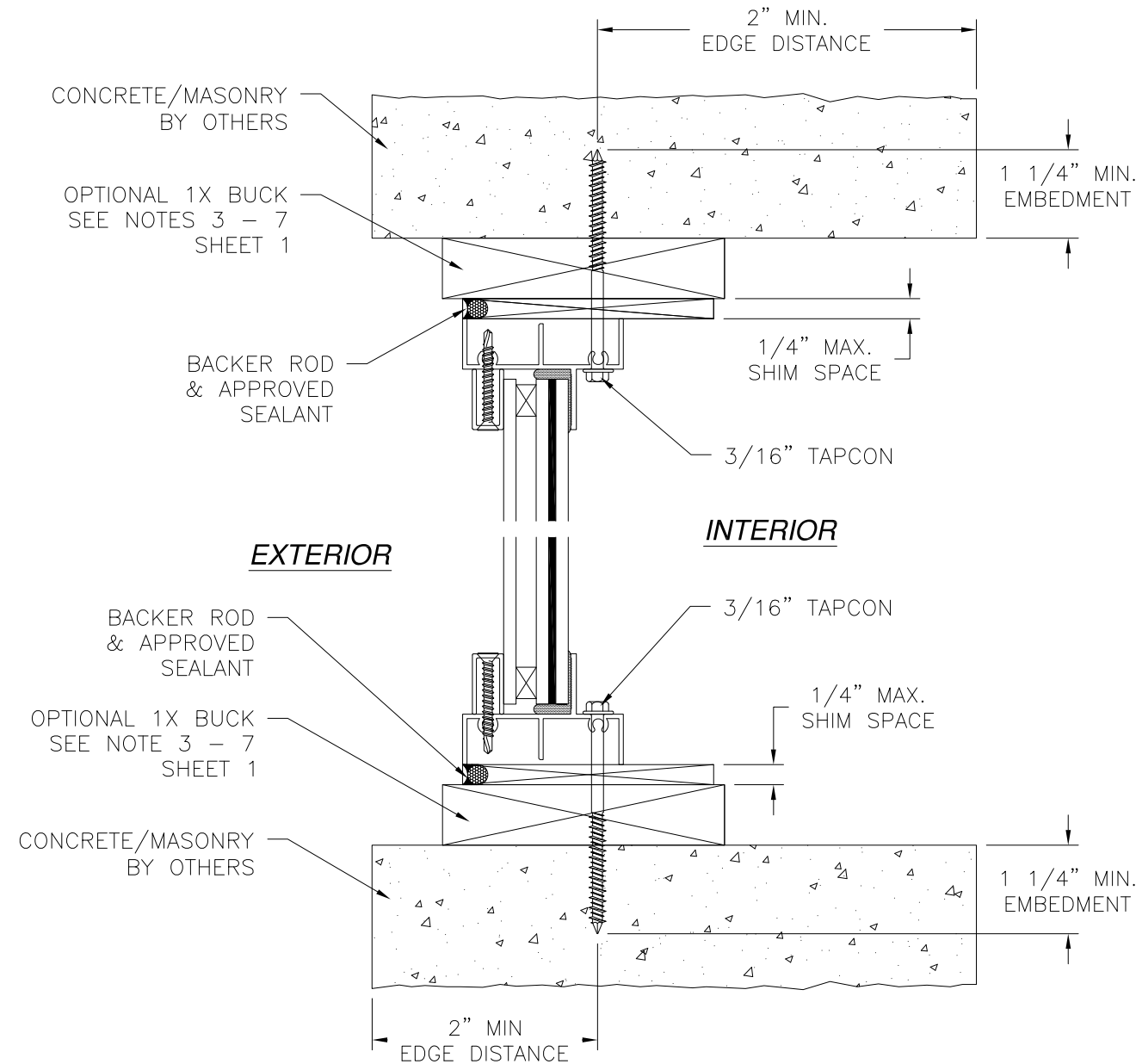


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185 PICTURE WINDOW IMPACT 37" x 78" FINLESS INSTALLATION DETAILS WITHOUT FILLERS		
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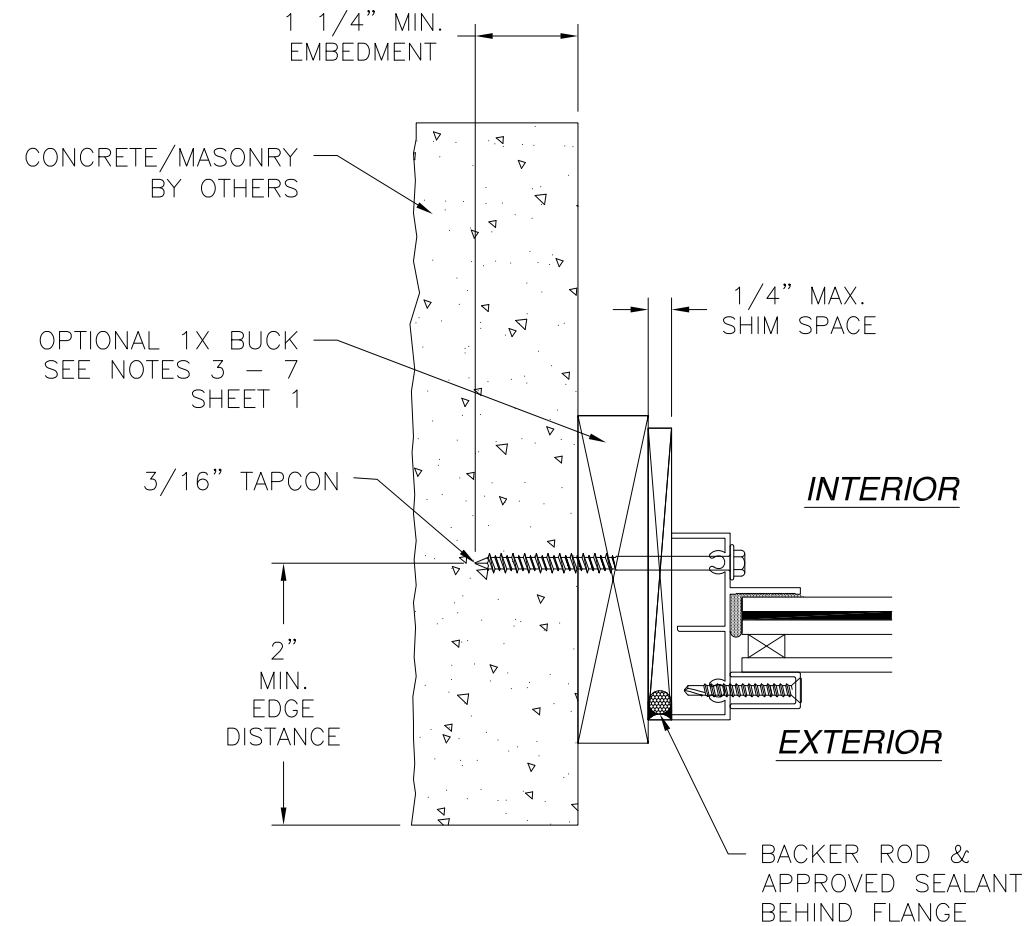
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

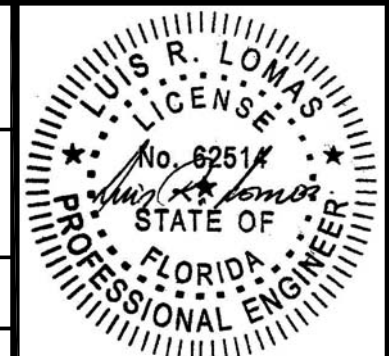
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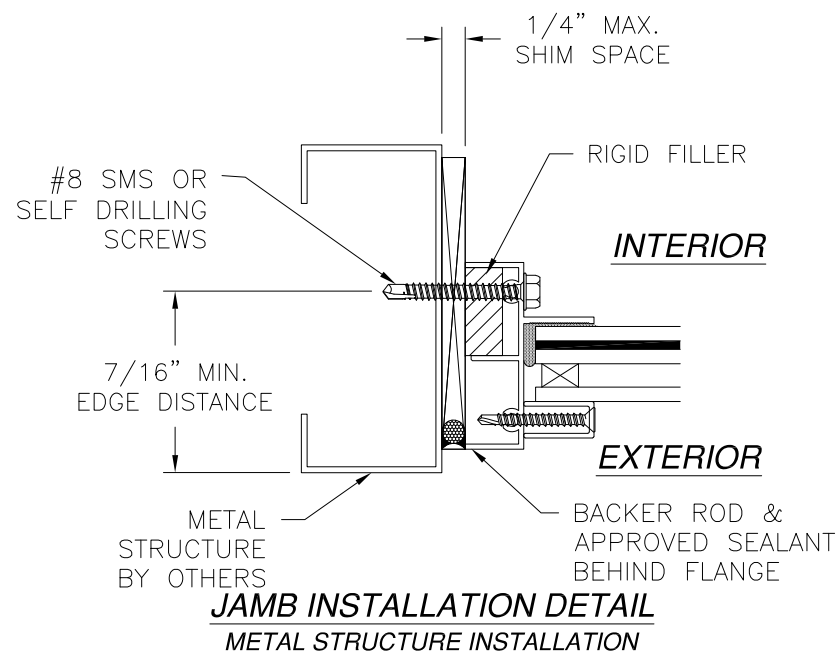
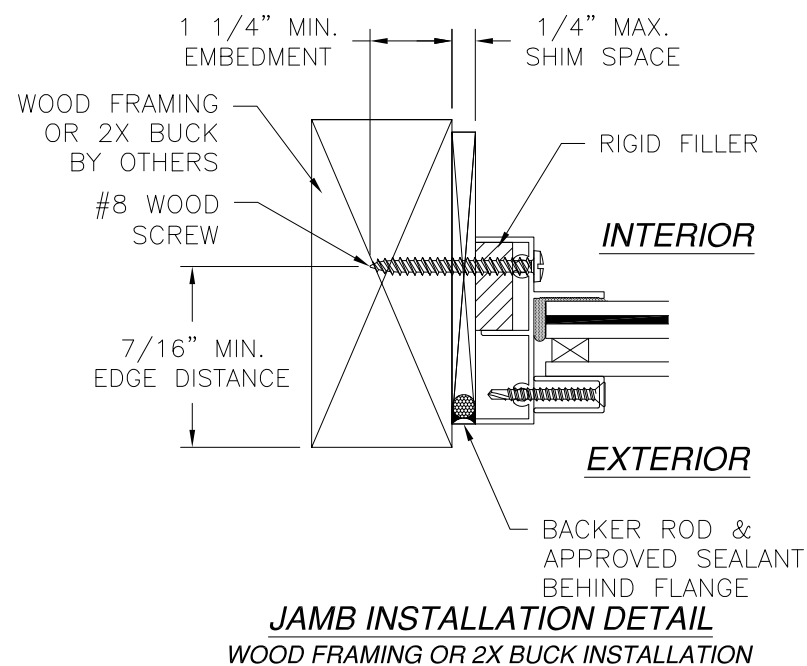
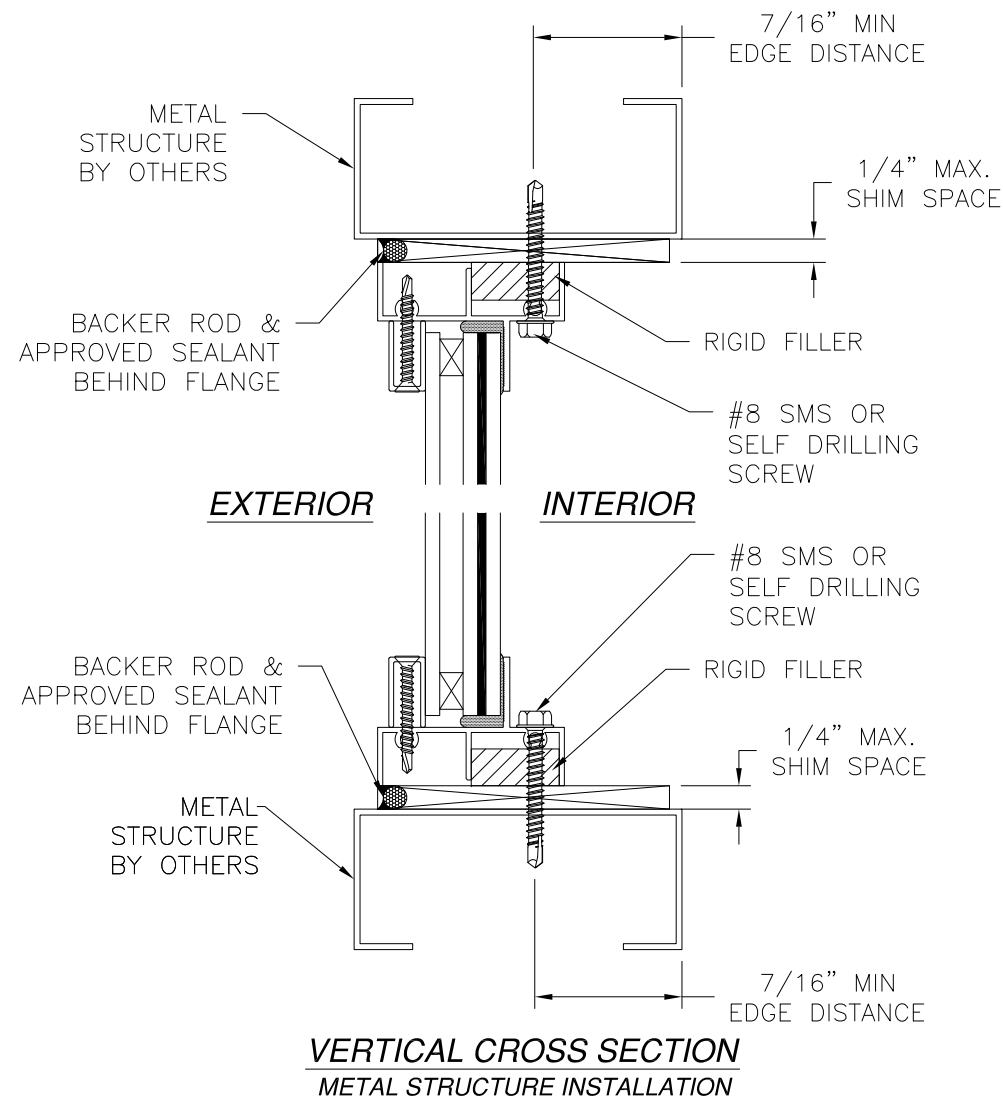
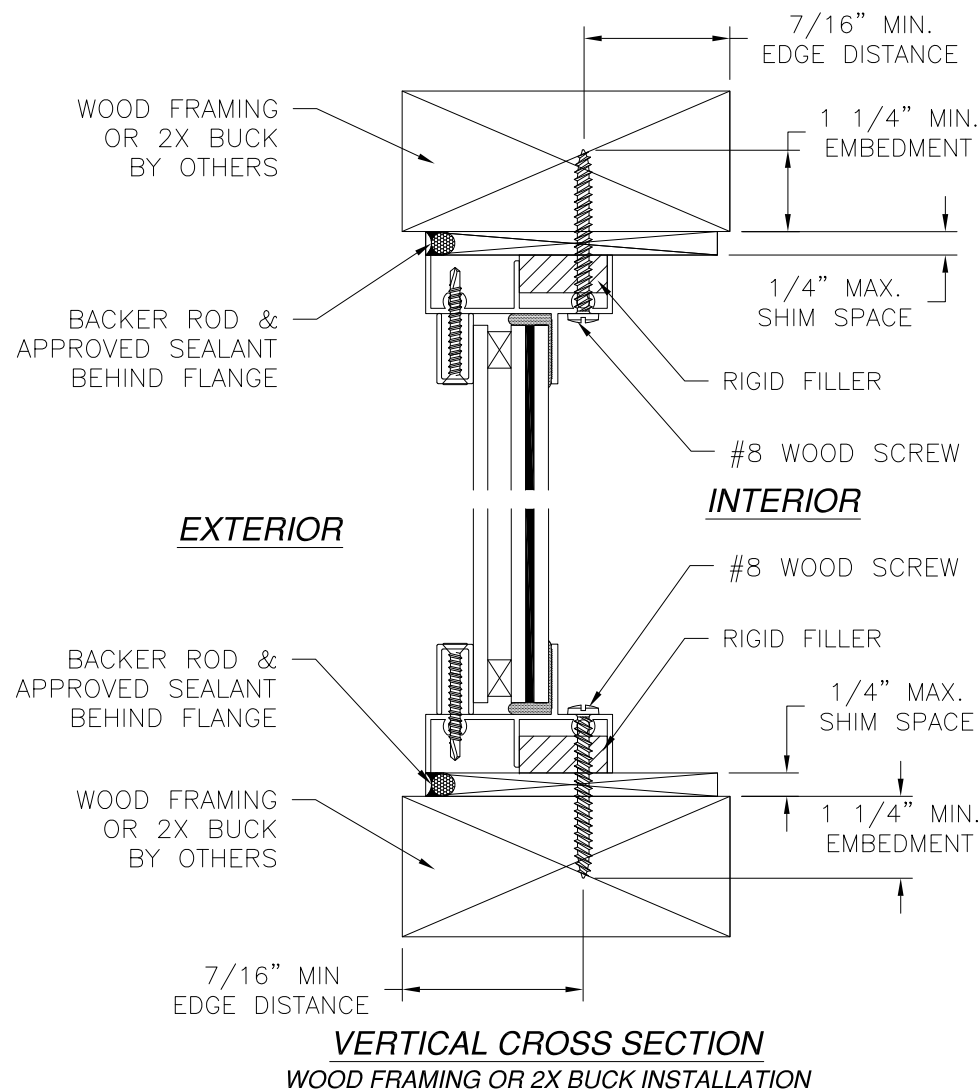
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

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

MI WINDOWS AND DOORS, LLC

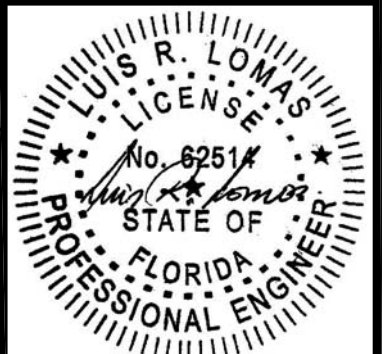
650 W. MARKET ST.
GRATZ, PA 17030

185 PICTURE WINDOW
IMPACT 37" x 78"
FINLESS INSTALLATION DETAILS WITH RIGID FILLERS

DRAWN: A.R.	DWG NO. 08-03372	REV -
SCALE NTS	DATE 03/12/19	SHEET 11 OF 15

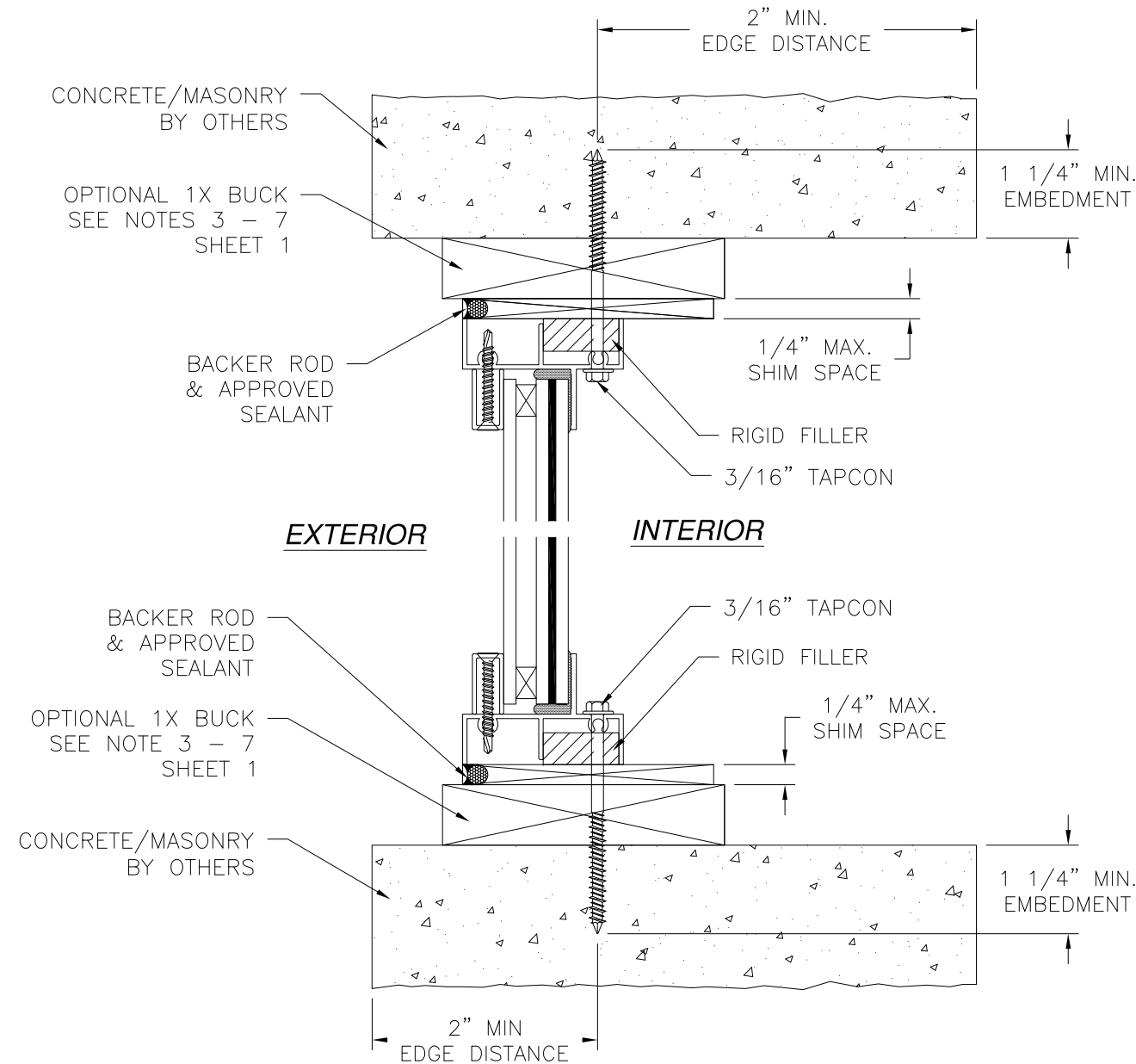
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

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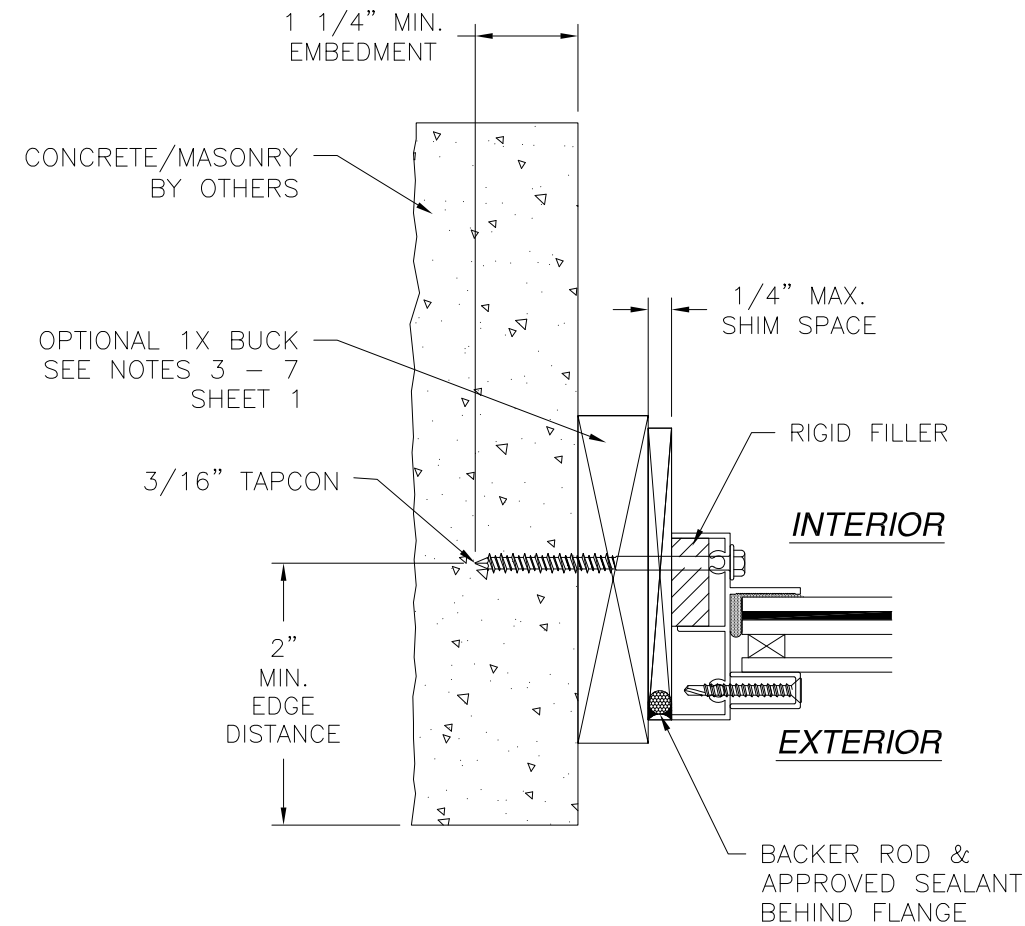
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

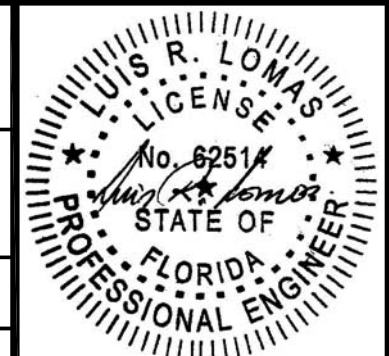
NOTES:
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2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

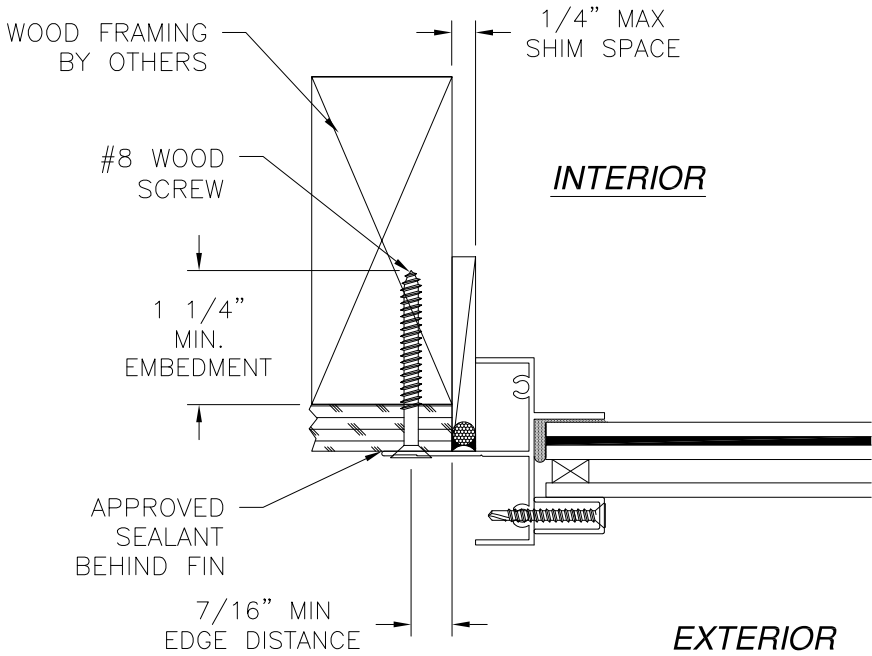
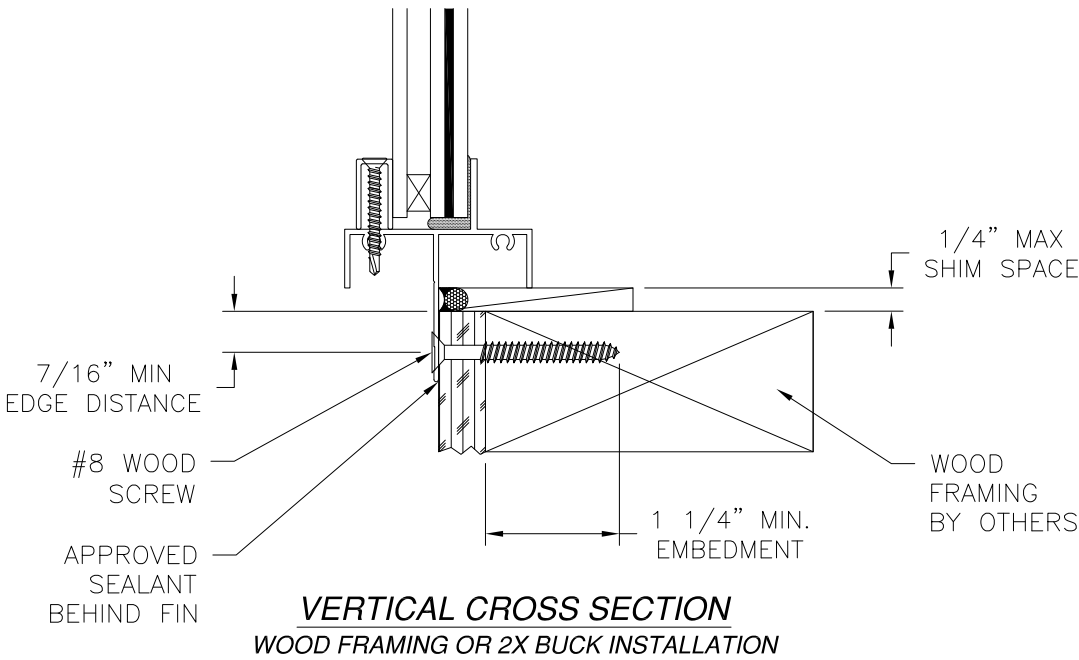
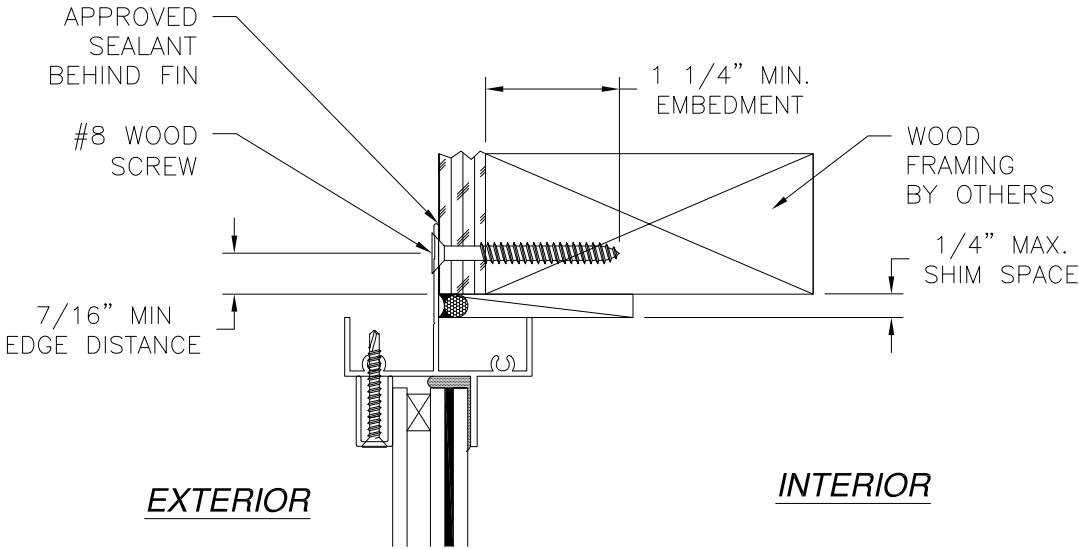
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MI WINDOWS AND DOORS, LLC 650 W. MARKET ST. GRATZ, PA 17030		
185 PICTURE WINDOW IMPACT 37" x 78" FINLESS INSTALLATION DETAILS WITH RIGID FILLERS		
DRAWN: A.R.	DWG NO. 08-03372	REV -
SCALE NTS	DATE 03/12/19	SHEET 12 OF 15
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

NOTES:
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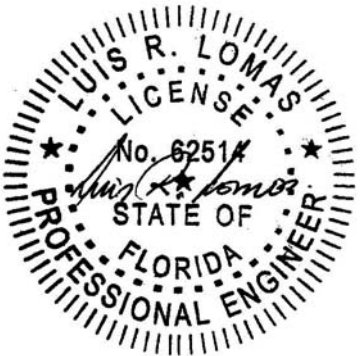
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650 W. MARKET ST.
GRATZ, PA 17030

185 PICTURE WINDOW
IMPACT 37" x 78"
FIN INSTALLATION DETAILS

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SCALE NTS	DATE 03/12/19	SHEET 13 OF 15

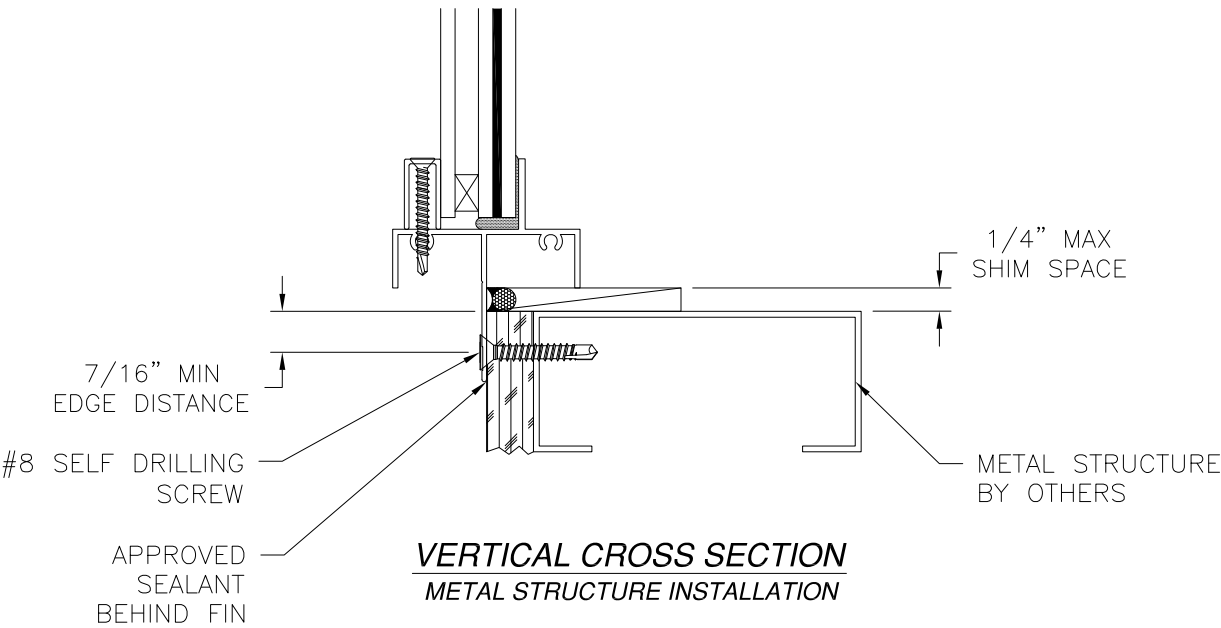
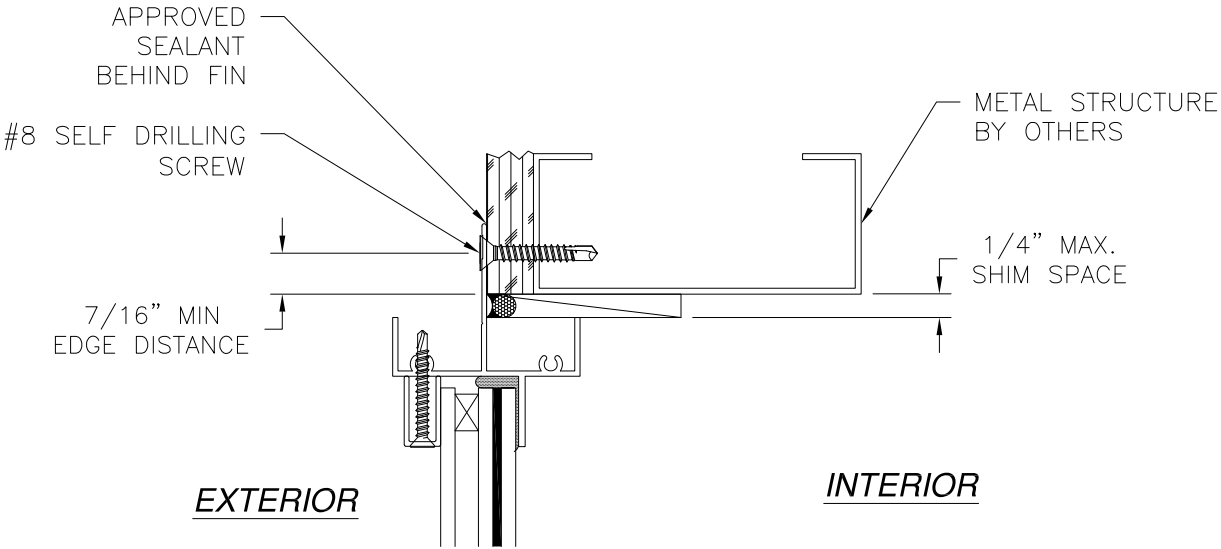
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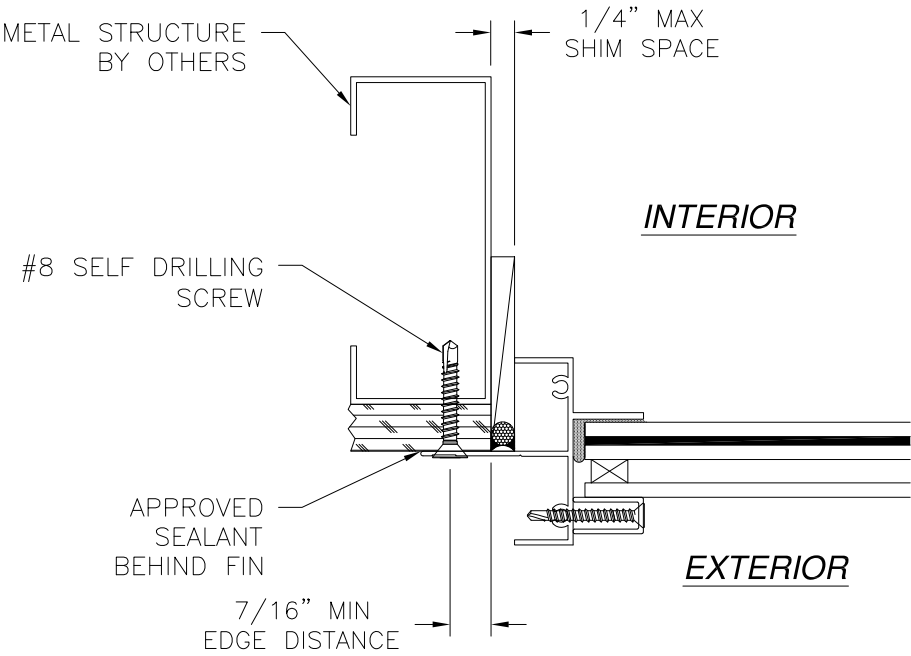


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REV	DESCRIPTION	DATE	APPROVED



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JAMB INSTALLATION DETAIL
 METAL STRUCTURE INSTALLATION

MI WINDOWS AND DOORS, LLC
650 W. MARKET ST.
GRATZ, PA 17030

185 PICTURE WINDOW
IMPACT 37" x 78"
FIN INSTALLATION DETAILS

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A.R.

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14 OF 15

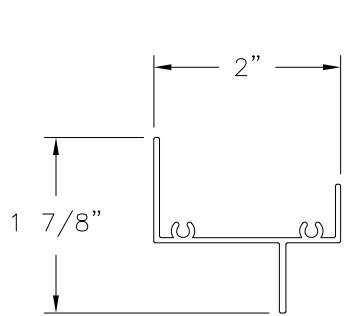
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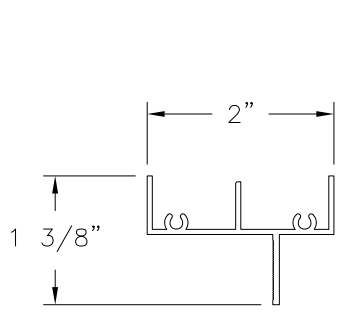


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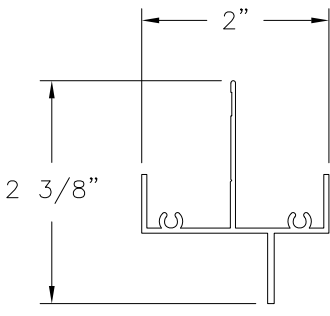
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



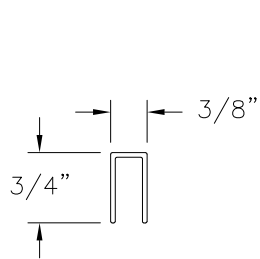
MAIN FRAME
FINLESS INSTALLATION WITH FLANGE
ALUMINUM 6063-T5 (CM-18524)



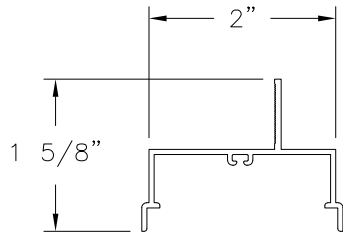
MAIN FRAME
FINLESS INSTALLATION
ALUMINUM 6063-T5 (CM-18524)



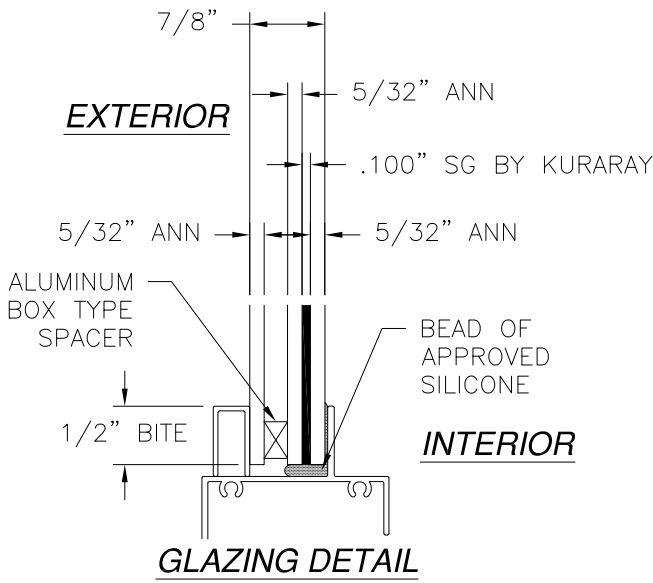
MAIN FRAME
FIN INSTALLATION
ALUMINUM 6063-T5 (CM-18522)



GLAZING BEAD
INSULATED GLASS
ALUMINUM 6063-T5 (CM-18540)



SILL STACKING FRAME
FIN INSTALLATION
ALUMINUM 6063-T5 (CM-18523)



MI WINDOWS AND DOORS, LLC
650 W. MARKET ST.
GRATZ, PA 17030

185 PICTURE WINDOW
IMPACT 37" x 78"
COMPONENTS AND GLAZING DETAILS

DRAWN:
A.R.

DWG NO.
08-03372

REV
-

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SHEET
15 OF 15

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