

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED INSTALLATION DETAILS	05/12/15	R.L.
B	REMOVED MONOLITHIC GLASS	08/12/16	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. 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 3 FOR GLASS DETAILS.
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 FRAME 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.
16. 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 1/2” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
17. FOR ANCHORING THROUGH FRAME 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.
18. ALL FASTENERS TO BE CORROSION RESISTANT.
19. 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 1/8” THICK MINIMUM
20. GEOMETRIC SHAPES ARE ALSO APPROVED. APPROVED GEOMETRIC SHAPES DIMENSIONS SHALL NOT EXCEED INSCRIBED DIMENSIONS OF APPROVED RECTANGULAR ASSEMBLY SHOWN IN SHEETS 2 AND 3.

SIGNED: 11/03/2016

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4 – 12	INSTALLATION DETAILS

MI WINDOWS AND DOORS, LLC

650 W. MARKET ST.
GRATZ, PA 17030

185 PICTURE WINDOW
96” X 60” IMPACT
NOTES

DRAWN:
V.L.

DWG NO.
08–01613

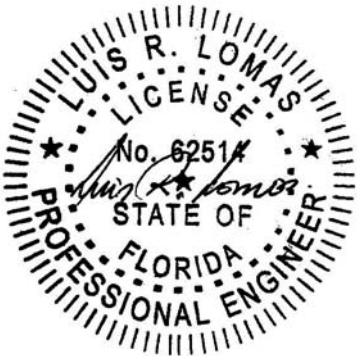
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SCALE NTS

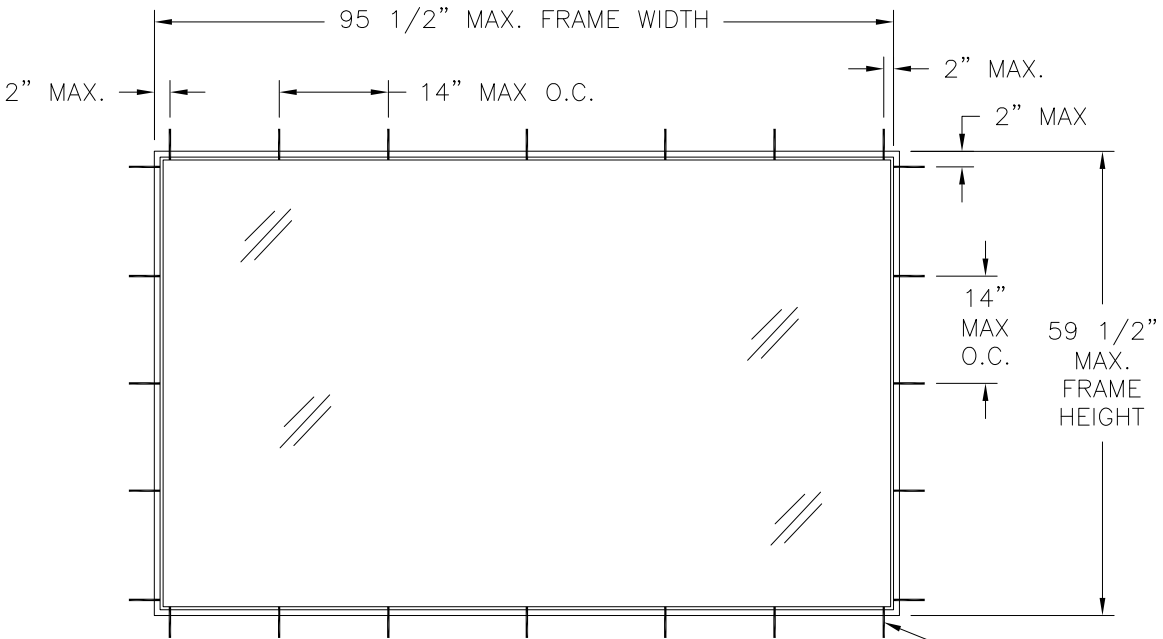
DATE 06/04/12

SHEET 1 OF 12

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

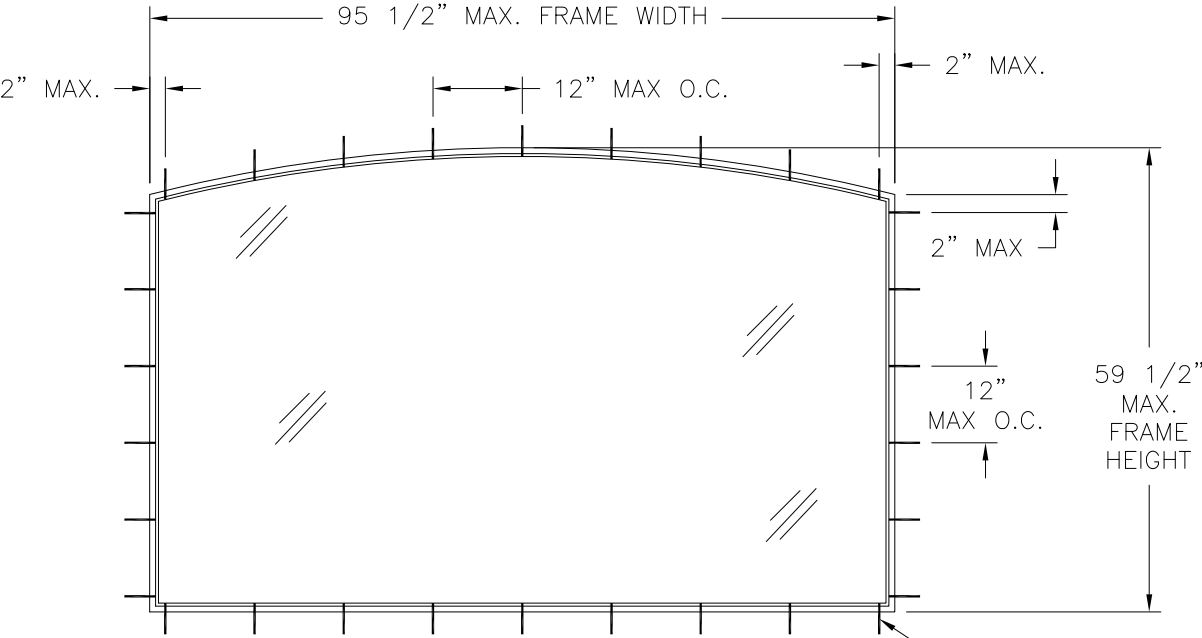


Luis R. Lomas P.E.
FL No.: 62514



185 FIXED WINDOW
EXTERIOR VIEW
FLANGE & FINLESS INSTALLATION

SEE CHARTS
#1 AND #2
FOR NUMBER
OF ANCHORS
REQUIRED



185 FIXED WINDOW DESIGNER
EXTERIOR VIEW
FLANGE & FINLESS INSTALLATION

SEE CHARTS
#1 AND #2
FOR NUMBER
OF ANCHORS
REQUIRED

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

MISSILE LEVEL D, WIND ZONE 3

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Chart #1

Number of anchors locations required for units without rigid fillers																								
Height (in)	Window width (in)																							
	24.0		30.0		36.0		42.0		48.0		54.0		60.0		66.0		72.0		78.0		84.0		90.0	
	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb
24.0	3	3	3	3	4	3	4	3	4	3	5	3	5	3	6	3	6	3	7	3	7	3	8	3
30.0	3	3	3	3	4	3	4	3	4	3	5	3	5	3	6	3	6	3	7	3	7	3	8	3
36.0	3	4	3	4	4	4	4	4	4	4	5	4	5	4	6	4	7	4	7	4	8	4	9	4
42.0	3	4	3	4	4	4	4	4	4	4	5	4	6	4	7	4	7	4	8	4	9	4	10	4
48.0	3	4	3	4	4	4	4	4	4	4	5	4	6	4	7	4	8	4	9	4	10	4	11	4
54.0	3	5	3	5	4	5	4	5	4	5	5	5	6	5	7	5	8	5	9	5	10	5	11	5
59.5	3	5	3	5	4	5	4	6	4	6	5	6	6	6	7	6	9	6	10	6	10	6	11	6

Chart #2

Number of anchors locations required for units with rigid fillers																								
Height (in)	Window width (in)																							
	24.0		30.0		36.0		42.0		48.0		54.0		60.0		66.0		72.0		78.0		84.0		90.0	
	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb
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36.0	3	4	3	4	4	4	4	4	4	4	5	4	5	4	6	4	6	4	7	4	7	4	8	4
42.0	3	4	3	4	4	4	4	4	4	4	5	4	5	4	6	4	6	4	7	4	7	4	8	4
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54.0	3	5	3	5	4	5	4	5	4	5	5	5	5	5	6	5	6	5	7	5	7	5	8	5
59.5	3	5	3	5	4	5	4	5	4	5	5	5	5	5	6	5	6	5	7	5	7	5	8	5

NOTES:
1. MAX D.L.O.: 92 3/4" X 56 3/4"

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MAX D.L.O.: 92 3/4" X 56 3/4"

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

185 PICTURE WINDOW
96" X 60" IMPACT
FLANGE & FINLESS ELEVATIONS & CHARTS

DRAWN:
V.L.

DWG NO.
08-01613

REV
B

SCALE NTS

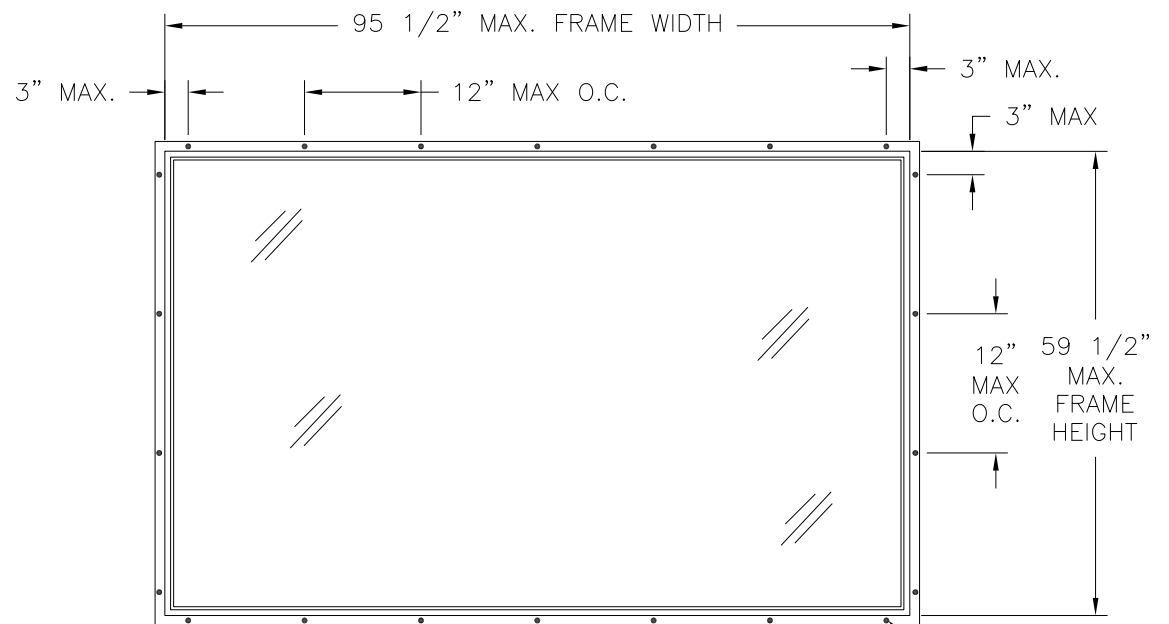
DATE 06/04/12

SHEET 2 OF 12

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

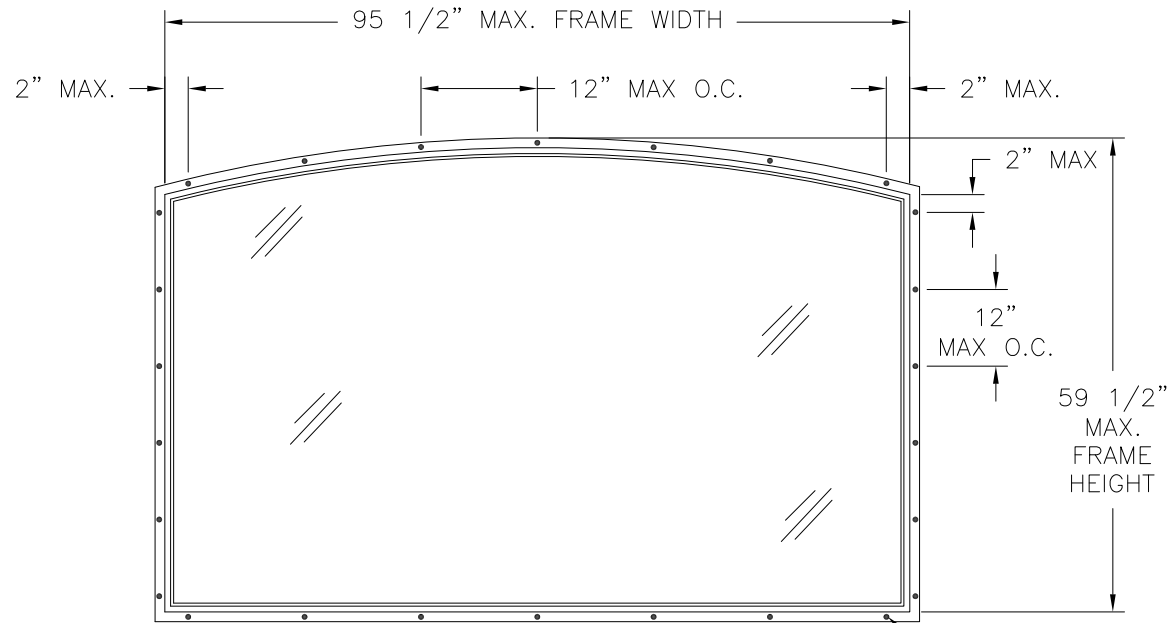


Luis R. Lomas P.E.
FL No.: 62514



185 FIXED WINDOW
EXTERIOR VIEW
FIN INSTALLATION

SEE CHART #3
FOR NUMBER
OF ANCHORS
REQUIRED



185 FIXED WINDOW DESIGNER
EXTERIOR VIEW
FIN INSTALLATION

SEE CHART #3
FOR NUMBER
OF ANCHORS
REQUIRED

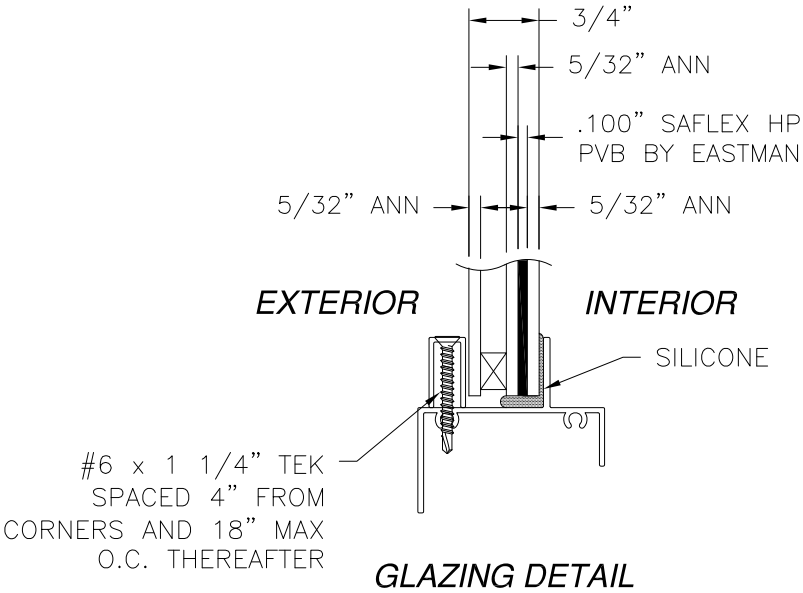
DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

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Chart #3

Number of anchor locations required for Fin Installation																								
Frame Height (in)	Frame width (in)																							
	24.00		30.00		36.00		42.00		48.00		54.00		60.00		66.00		72.00		78.00		84.00		90.00	
	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb
24.00	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
30.00	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
36.00	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
42.00	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
48.00	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
54.00	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
59.50	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8



NOTES:
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MI WINDOWS AND DOORS, LLC
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GRATZ, PA 17030

185 PICTURE WINDOW
96" X 60" IMPACT
FIN ELEVATIONS AND CHART

DRAWN:
V.L.

DWG NO.
08-01613

REV
B

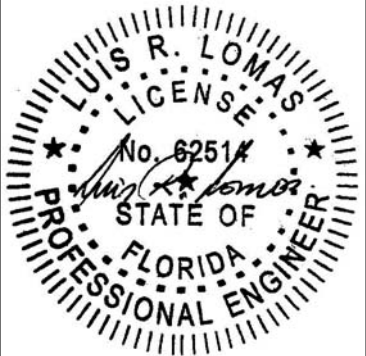
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DATE
06/04/12

SHEET
3 OF 12

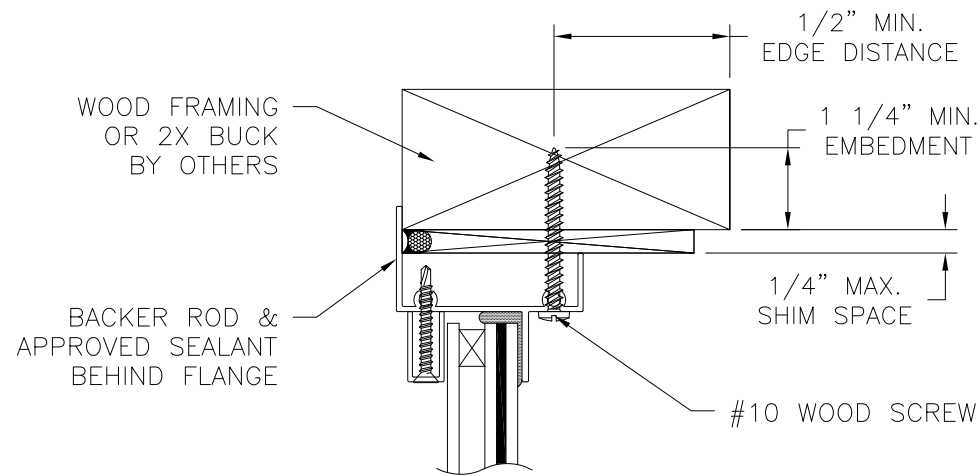
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SIGNED: 11/03/2016



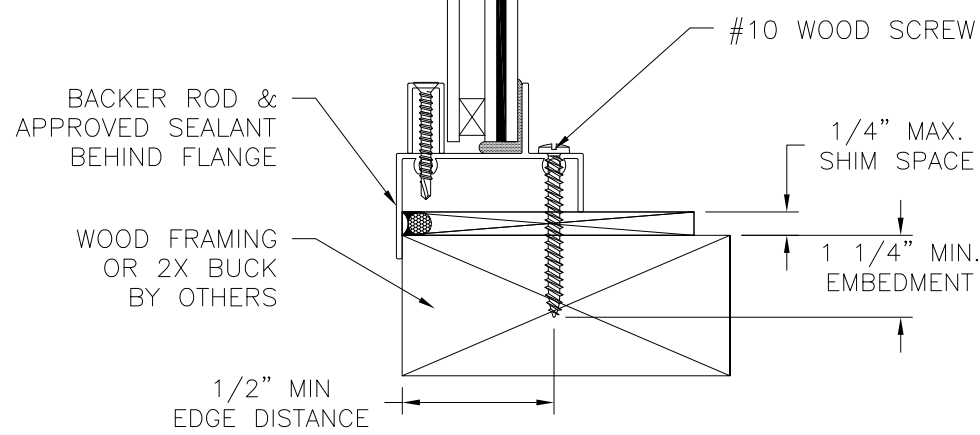
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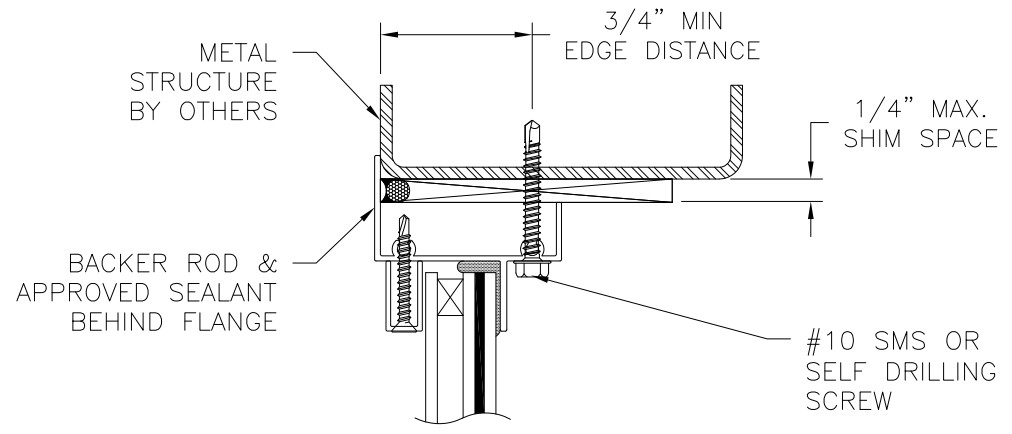


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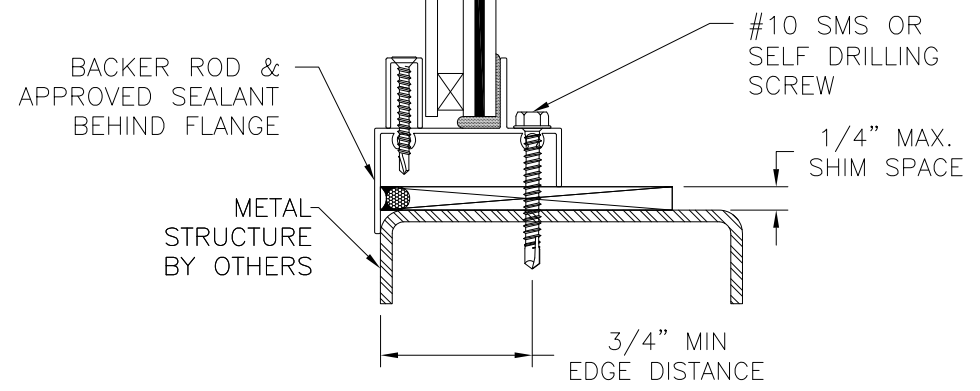


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



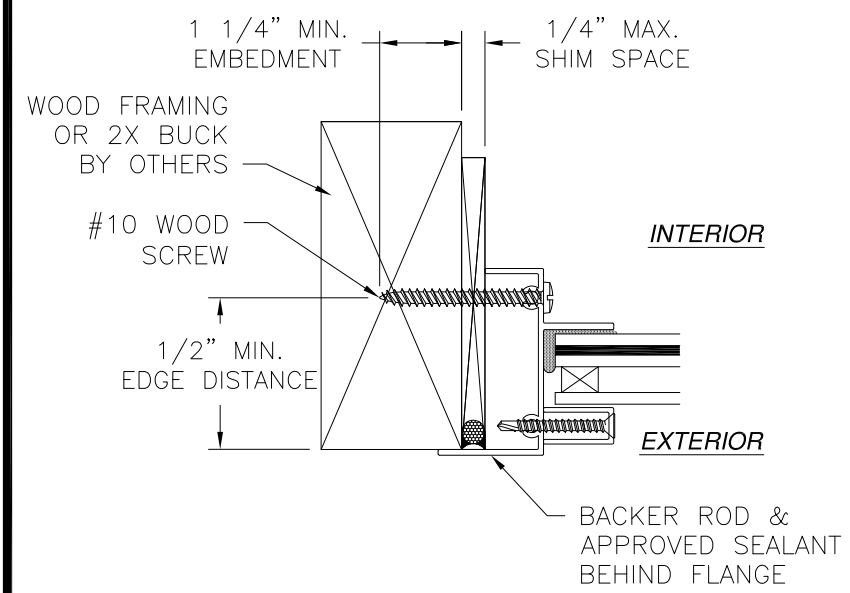
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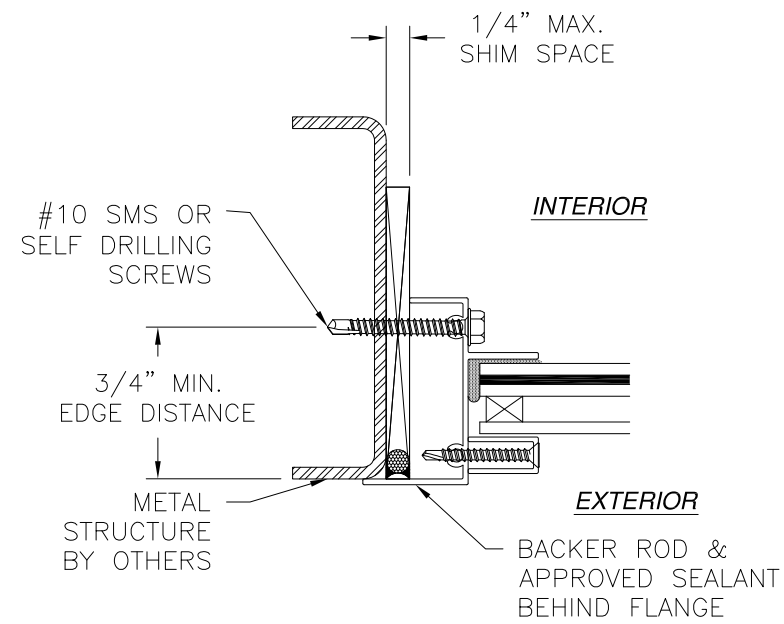


VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

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



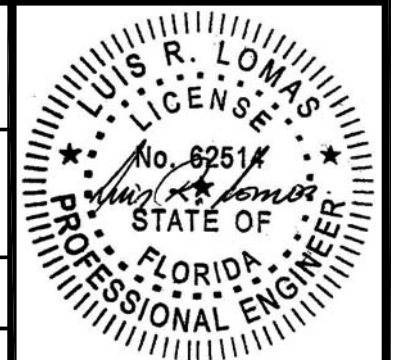
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

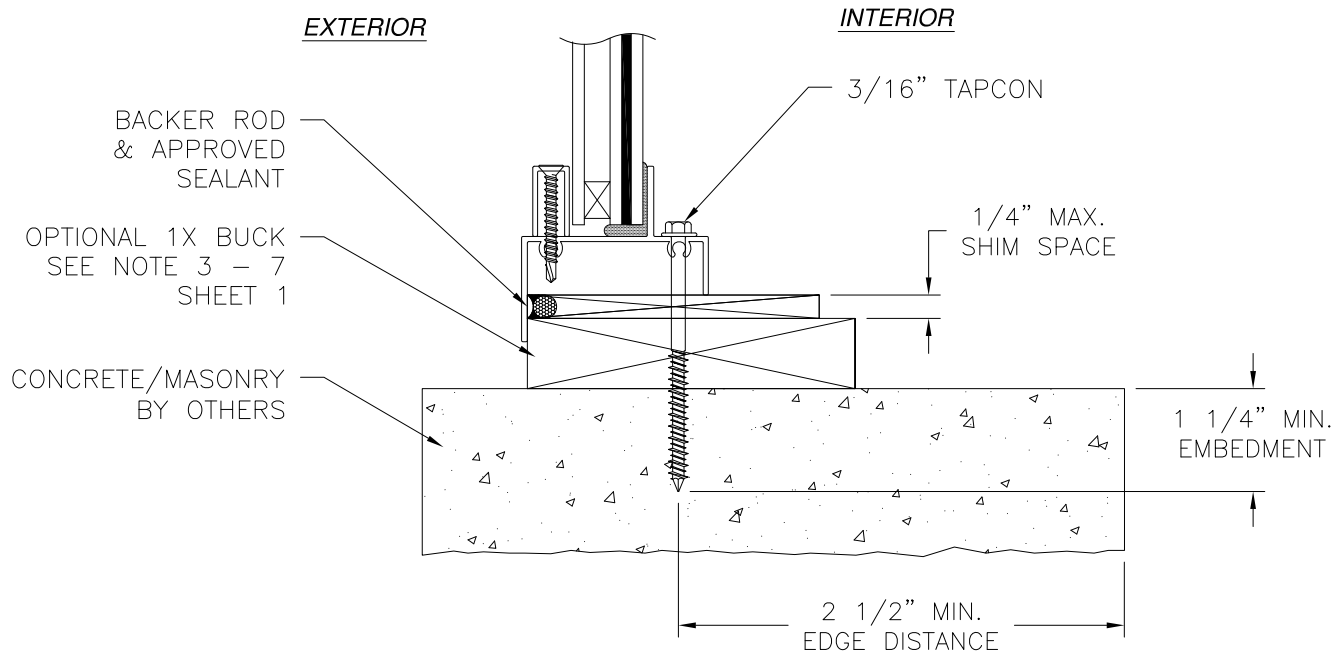
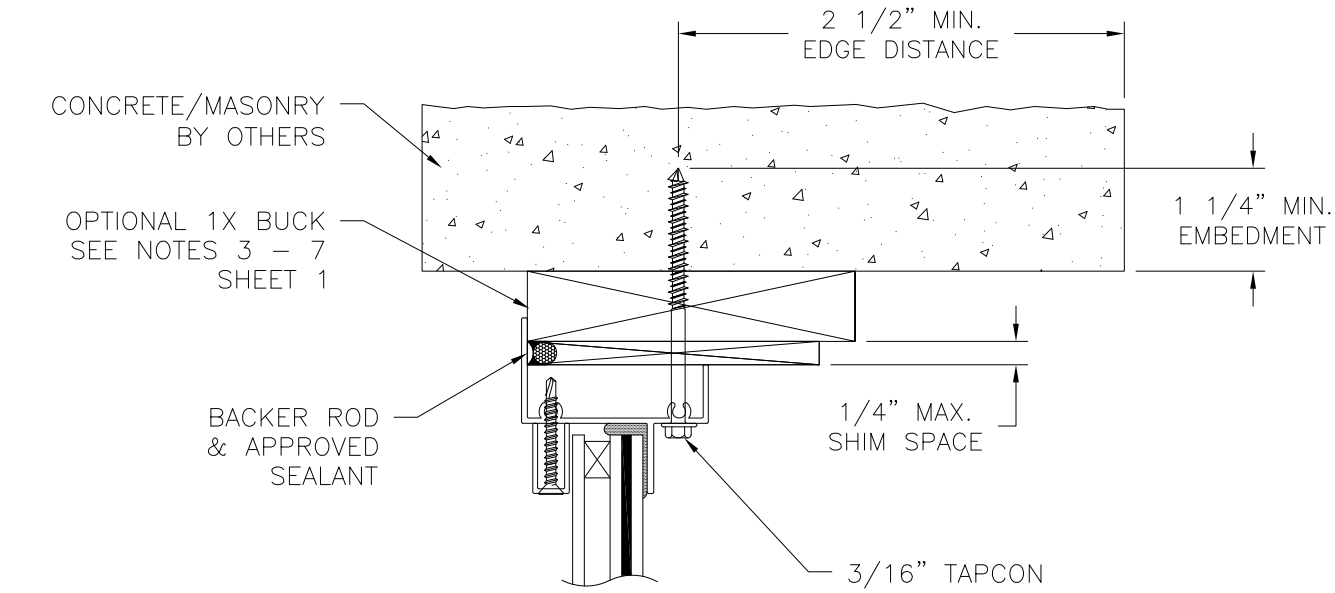
MI WINDOWS AND DOORS, LLC 650 W. MARKET ST. GRATZ, PA 17030		
185 PICTURE WINDOW 96" X 60" IMPACT FLANGE INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-01613	REV B
SCALE NTS	DATE 06/04/12	SHEET 4 OF 12
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 11/03/2016



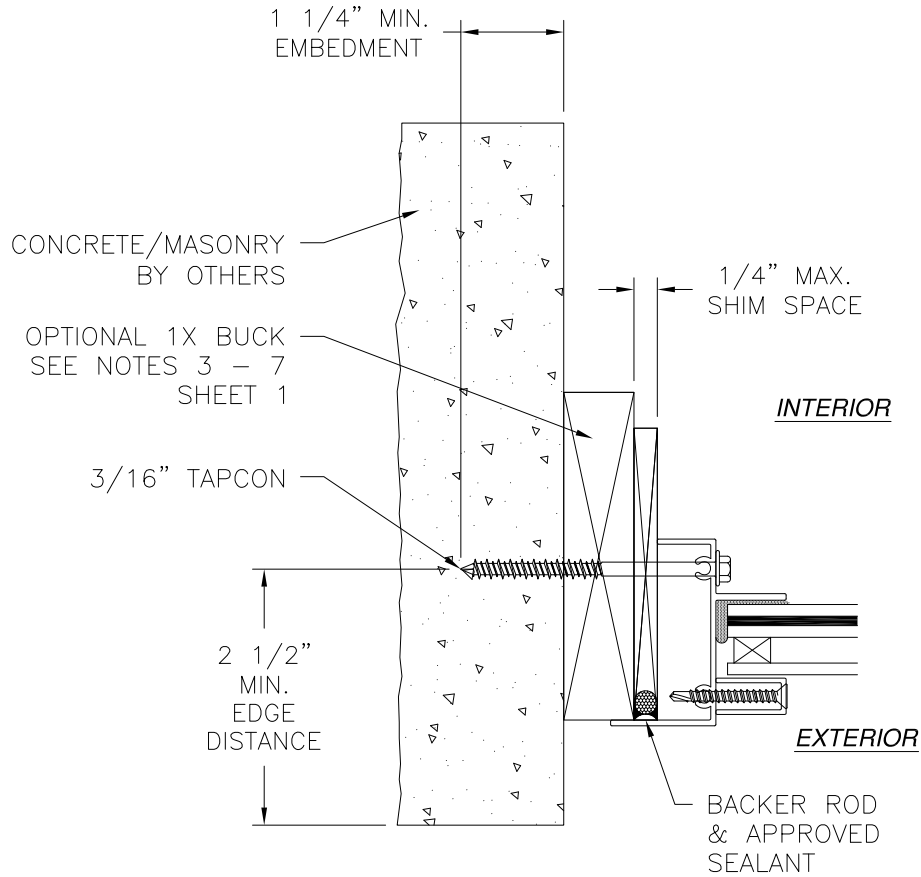
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

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JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

MI WINDOWS AND DOORS, LLC

650 W. MARKET ST.
GRATZ, PA 17030

185 PICTURE WINDOW

96" X 60" IMPACT

FLANGE INSTALLATION DETAILS

DRAWN: V.L.

DWG NO. 08-01613

REV B

SCALE NTS

DATE 06/04/12

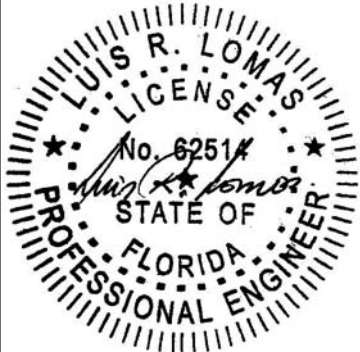
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L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023

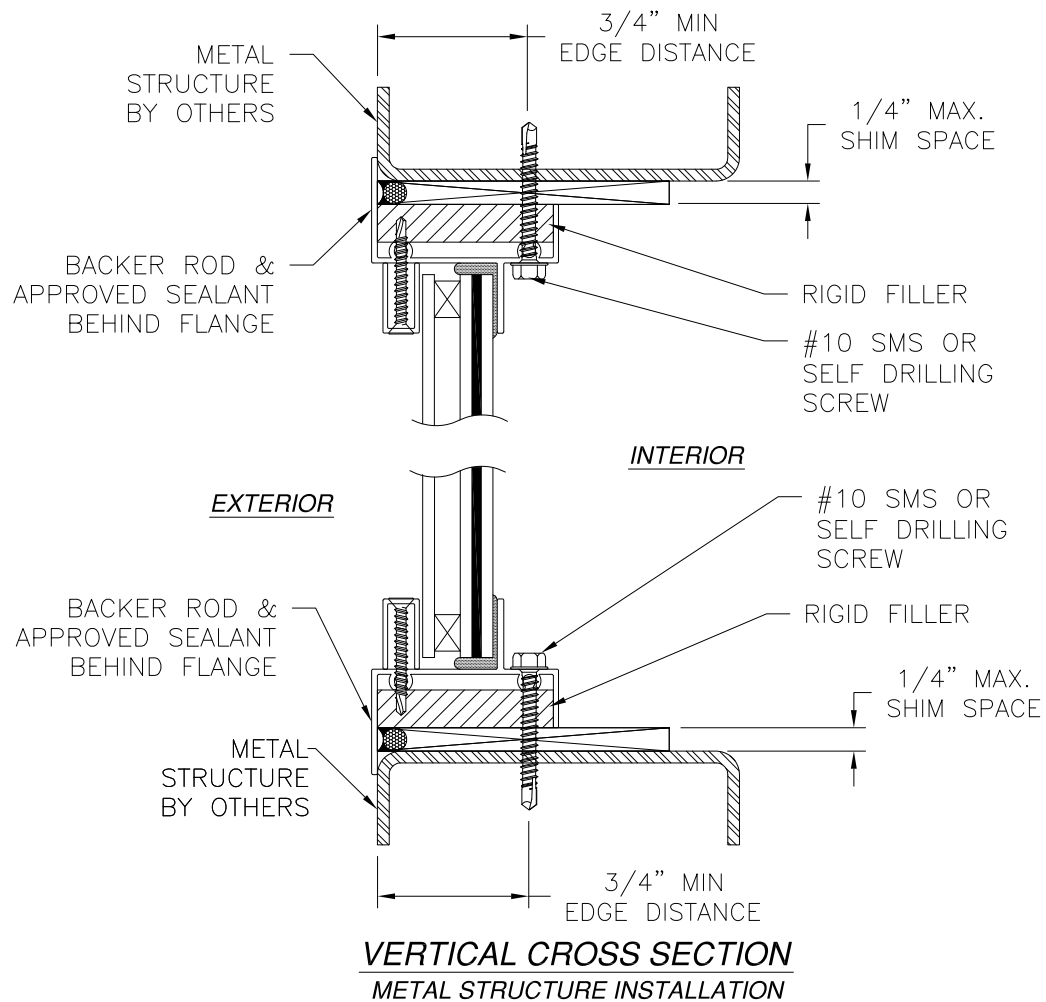
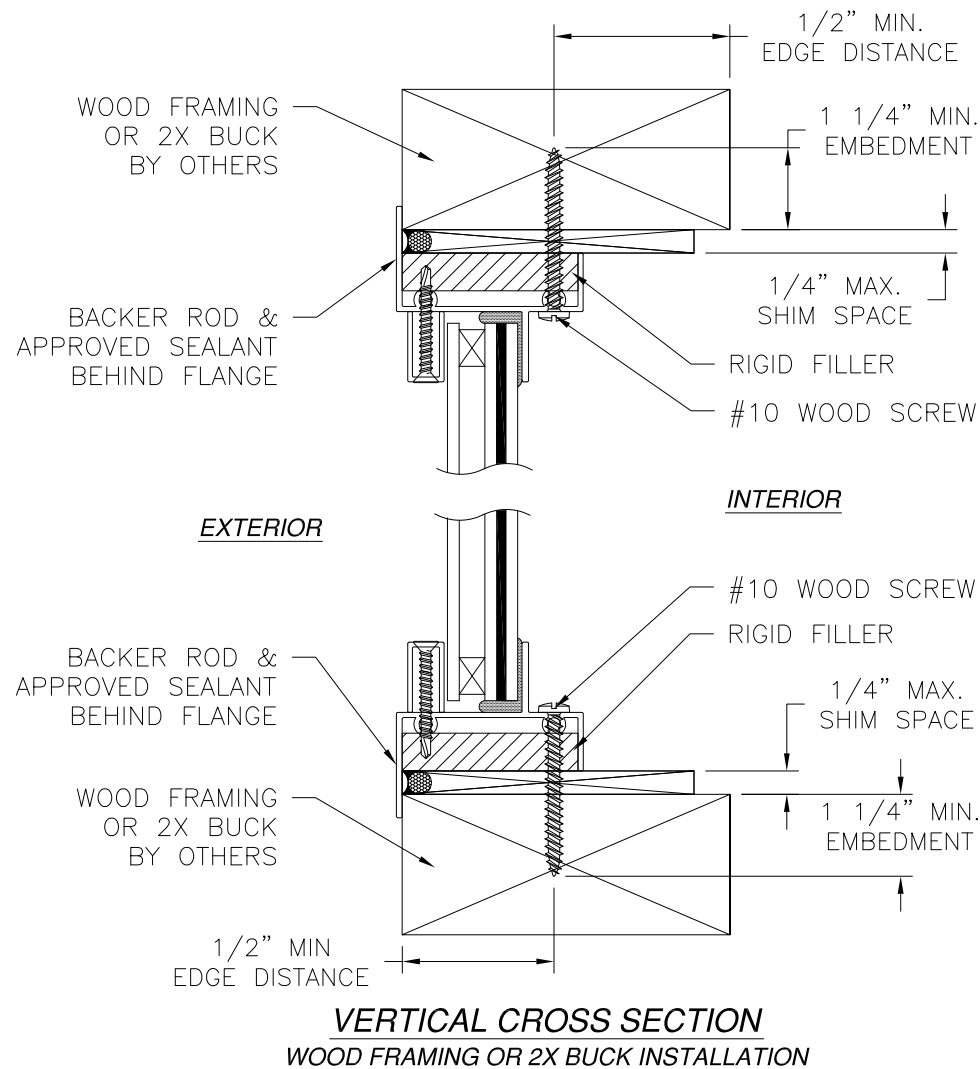
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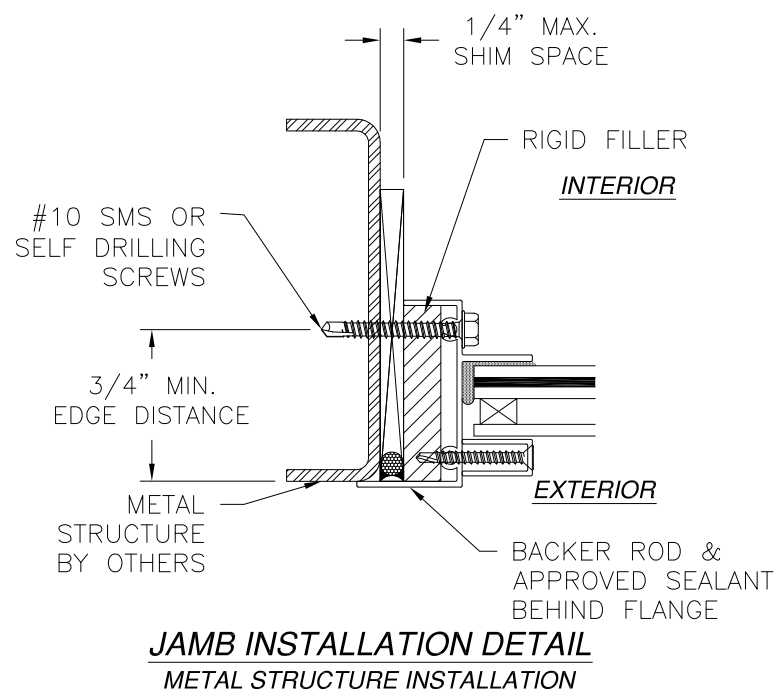
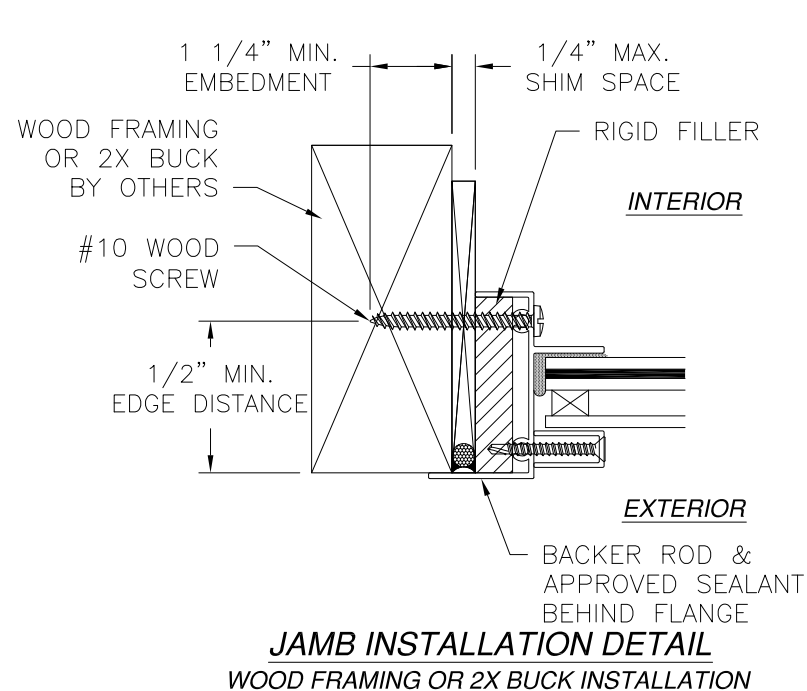


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MI WINDOWS AND DOORS, LLC

650 W. MARKET ST.
GRATZ, PA 17030

185 PICTURE WINDOW
96" X 60" IMPACT

FLANGE INSTALLATION DETAILS WITH RIGID FILLER

DRAWN: V.L.

DWG NO. 08-01613

REV B

SCALE NTS

DATE 06/04/12

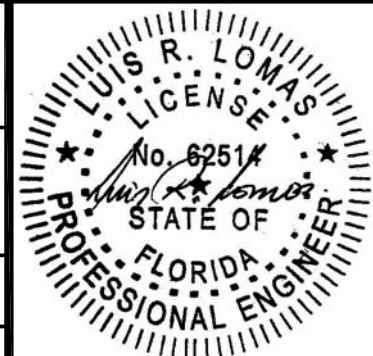
SHEET 6 OF 12

L. ROBERTO LOMAS P.E.

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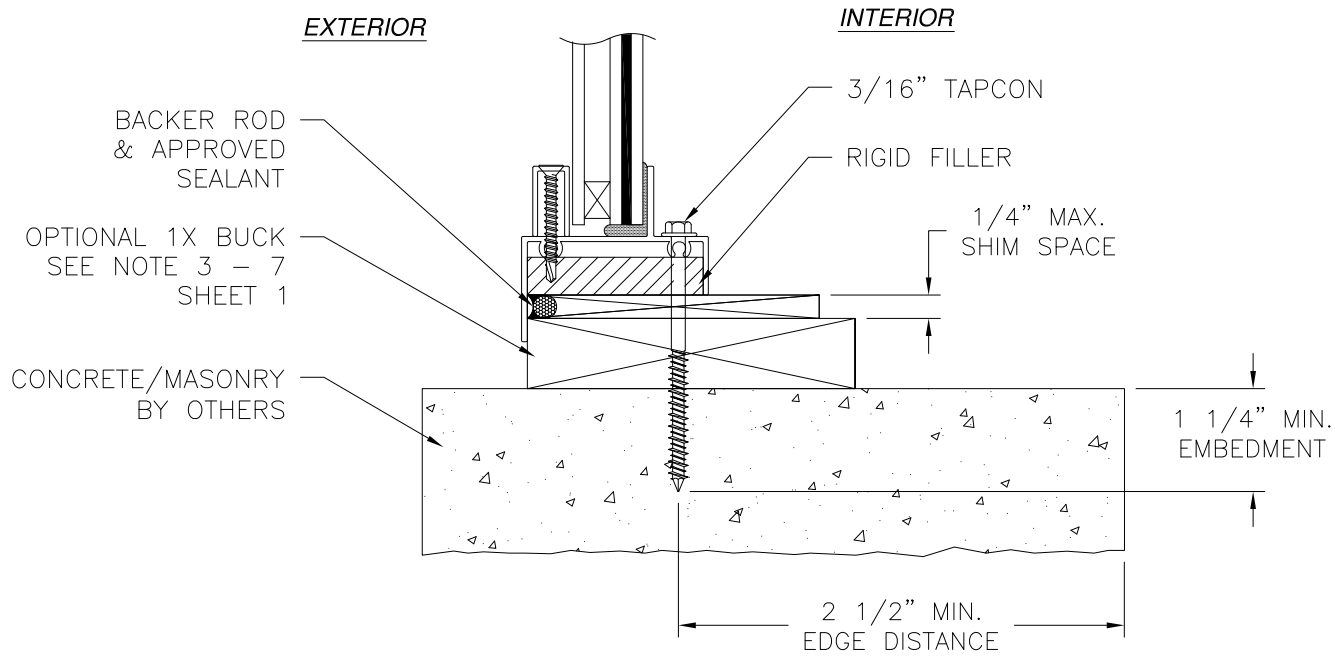
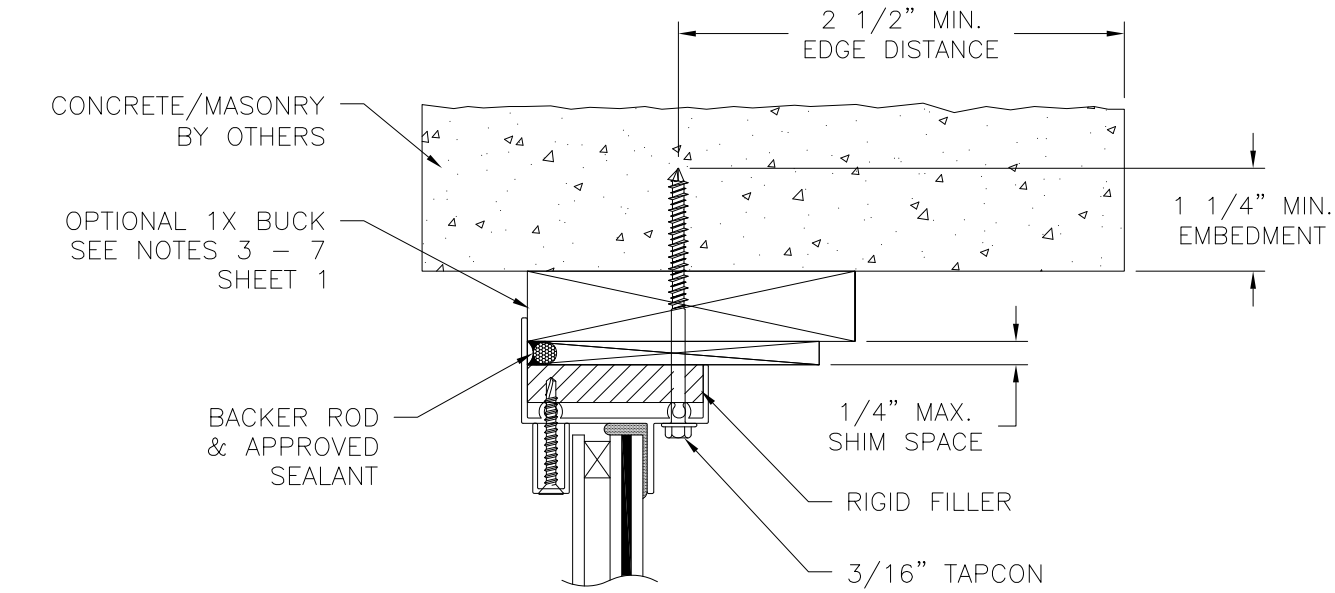
434-688-0609 rllomas@lrlomaspe.com

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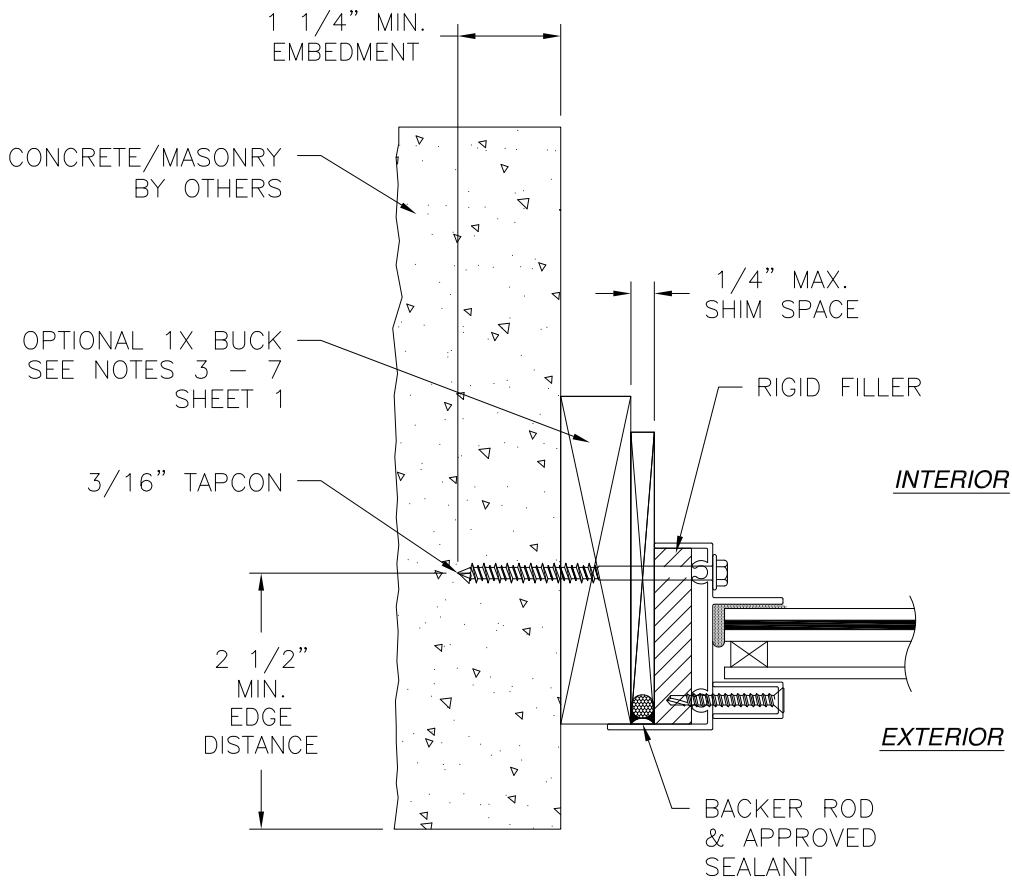


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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

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GRATZ, PA 17030

185 PICTURE WINDOW

96" X 60" IMPACT

FLANGE INSTALLATION DETAILS WITH RIGID FILLER

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REV B

SCALE NTS

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SHEET 7 OF 12

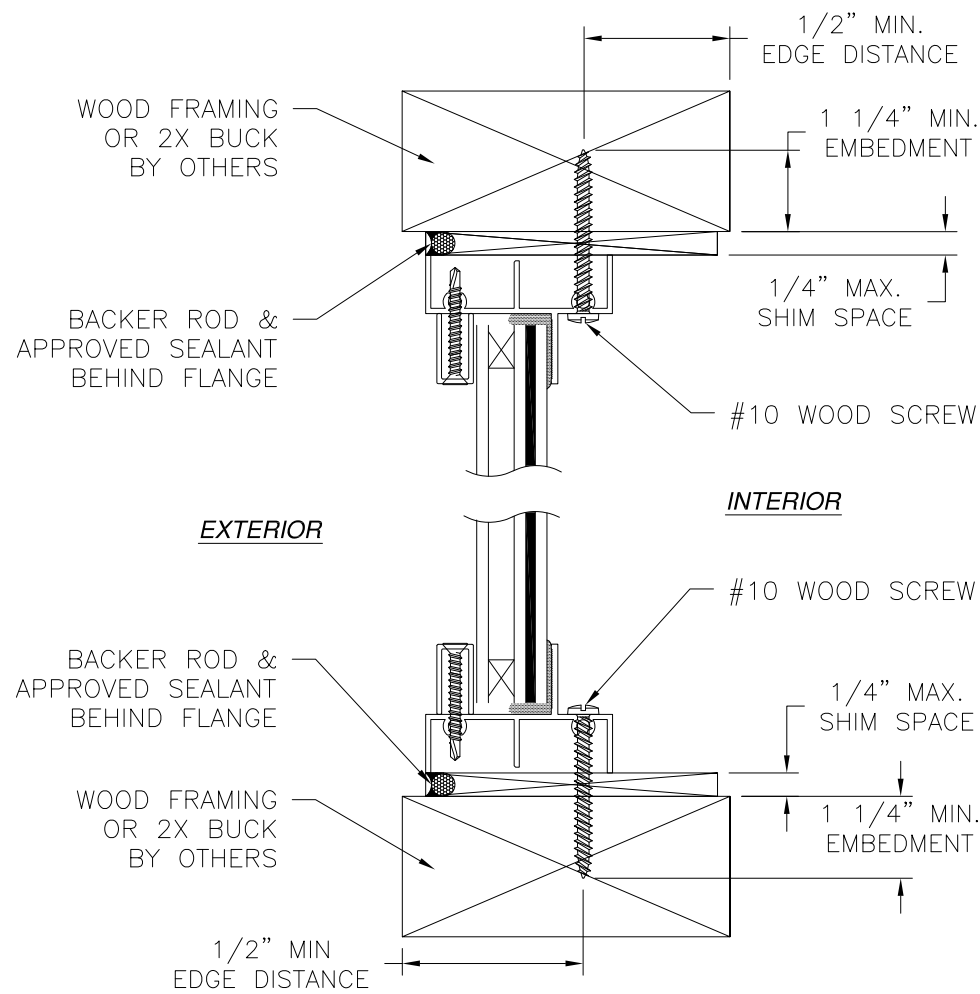
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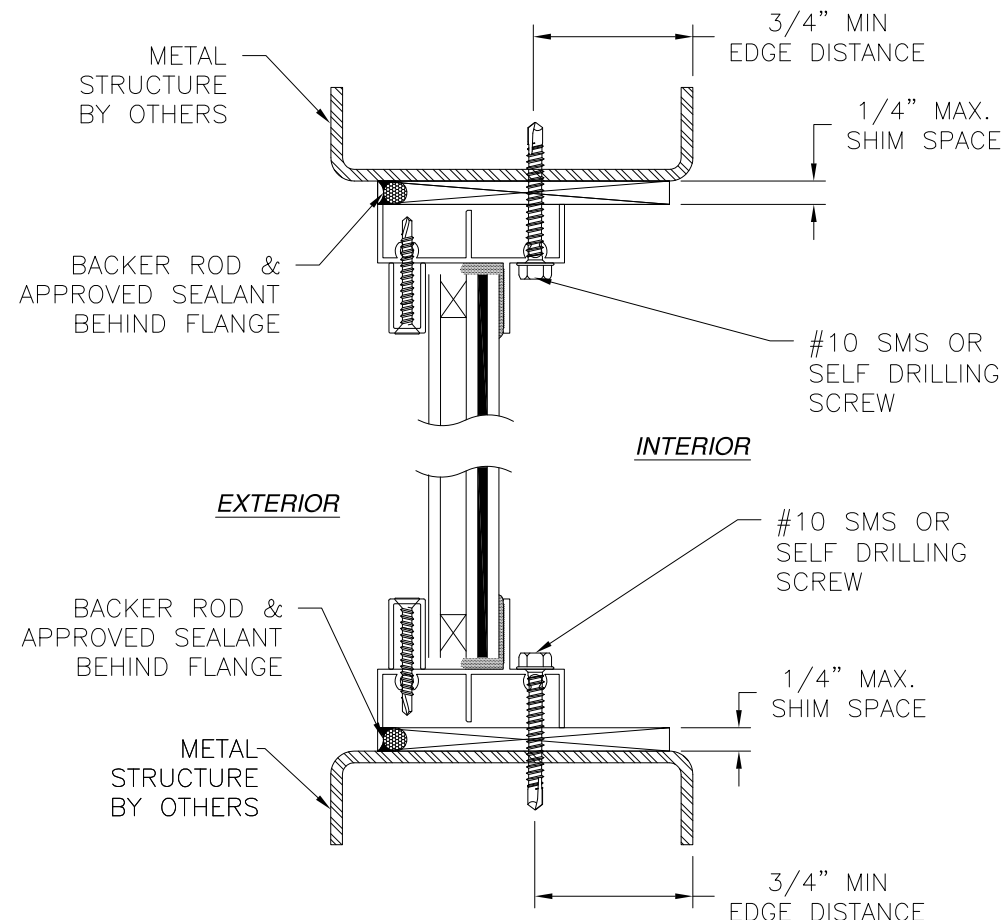
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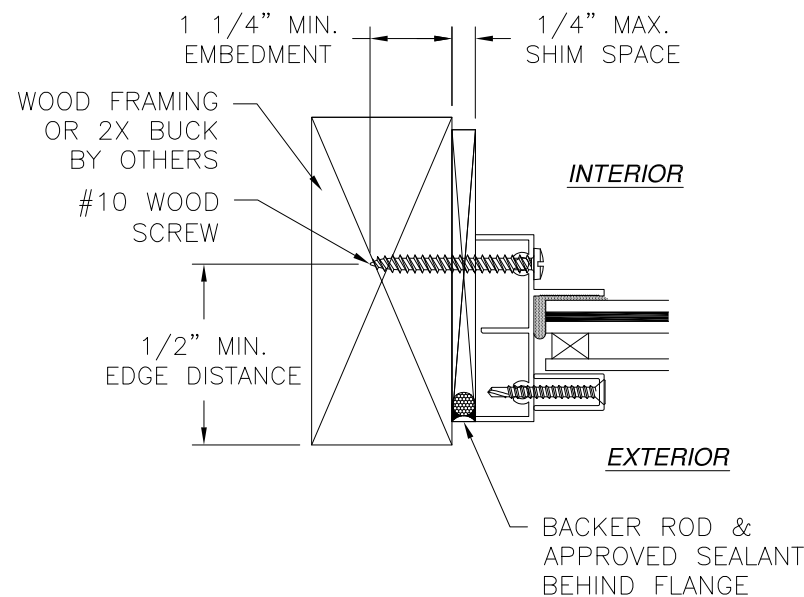
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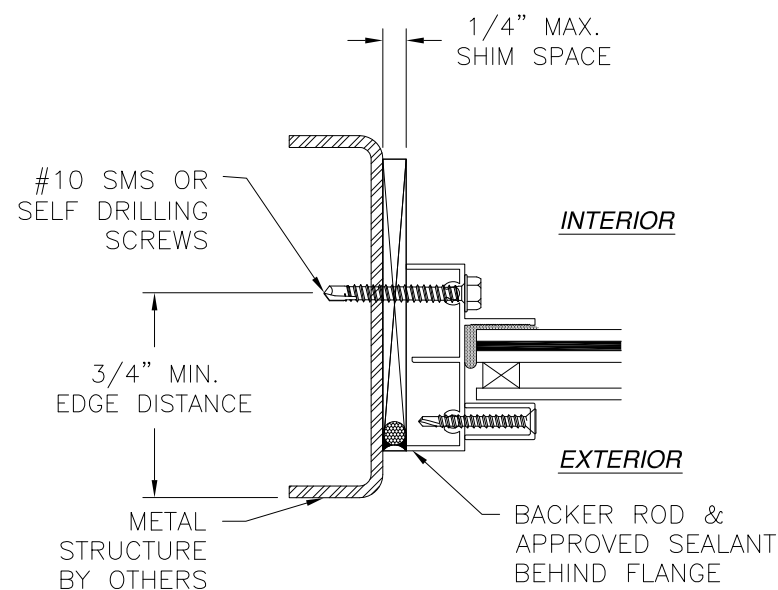
VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED INSTALLATION DETAILS	05/12/15	R.L.
B	REMOVED MONOLITHIC GLASS	08/12/16	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

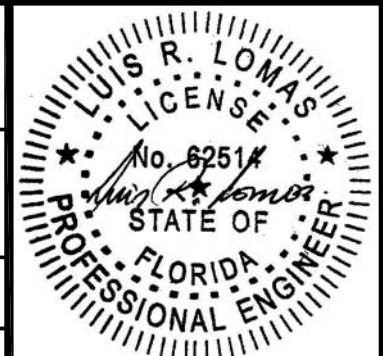
650 W. MARKET ST.
GRATZ, PA 17030

185 PICTURE WINDOW
96" X 60" IMPACT
FINLESS INSTALLATION DETAILS

DRAWN: V.L.	DWG NO. 08-01613	REV B
SCALE NTS	DATE 06/04/12	SHEET 8 OF 12

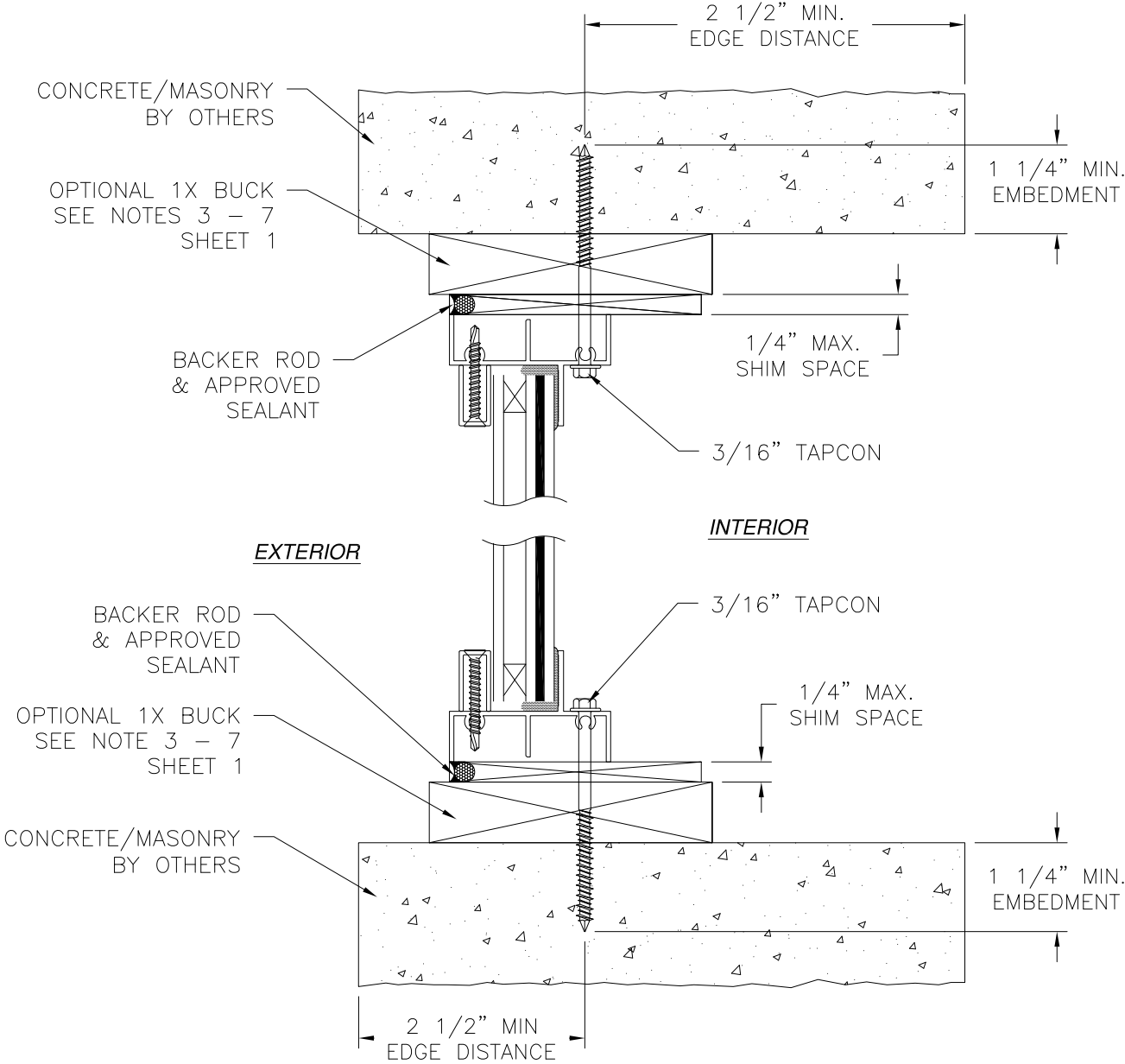
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 11/03/2016

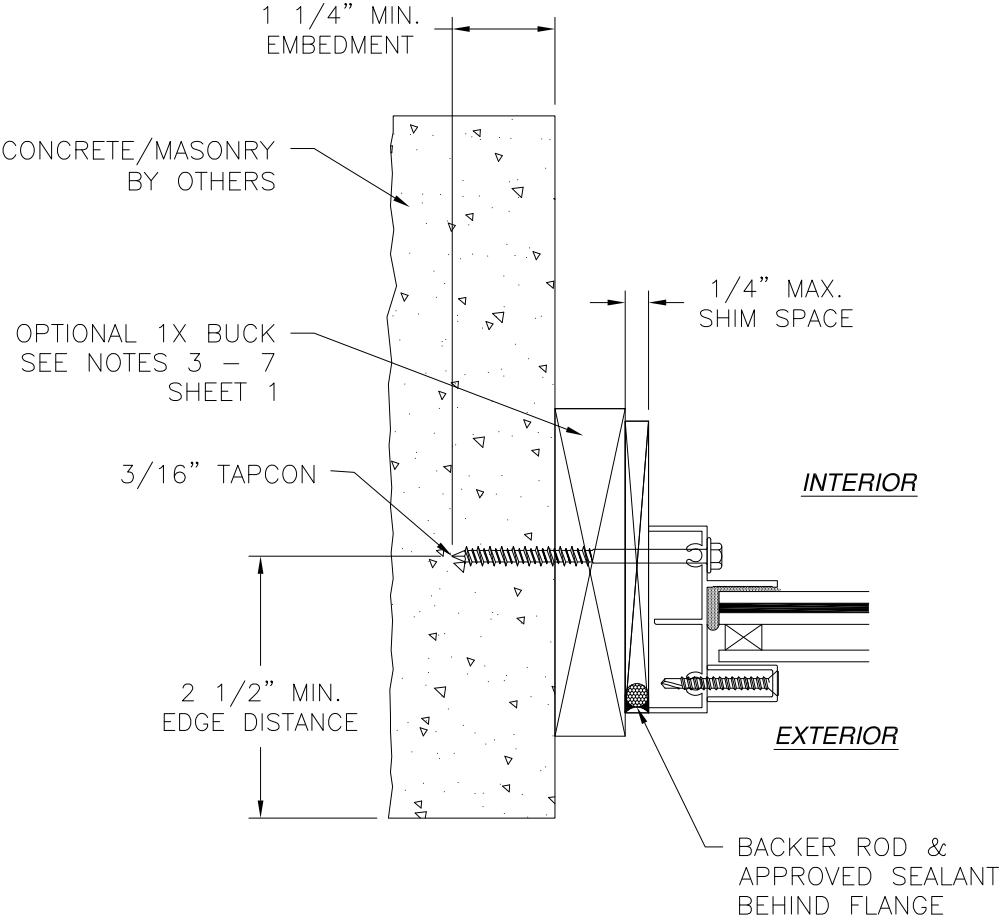


Luis R. Lomas P.E.
FL No.: 62514

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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



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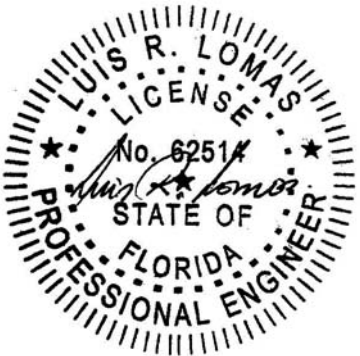
DATE 06/04/12

SHEET 9 OF 12

L. ROBERTO LOMAS P.E.

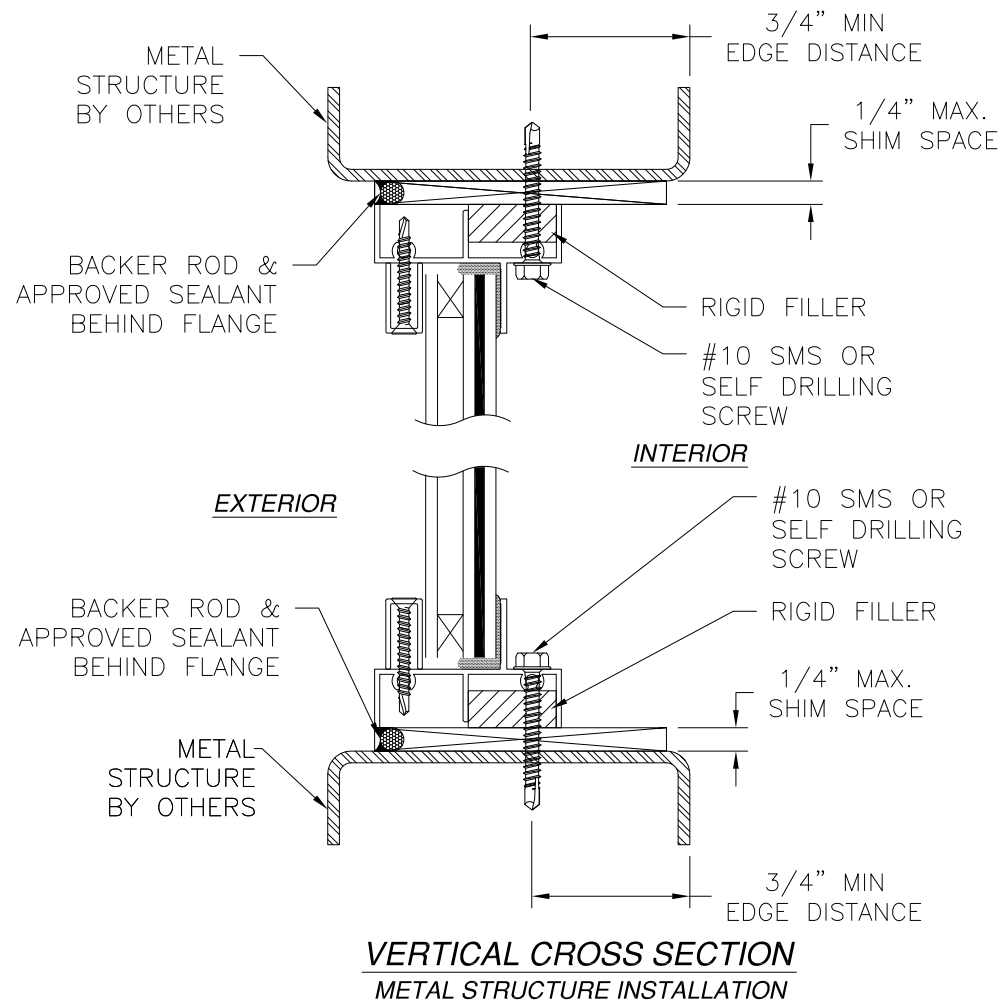
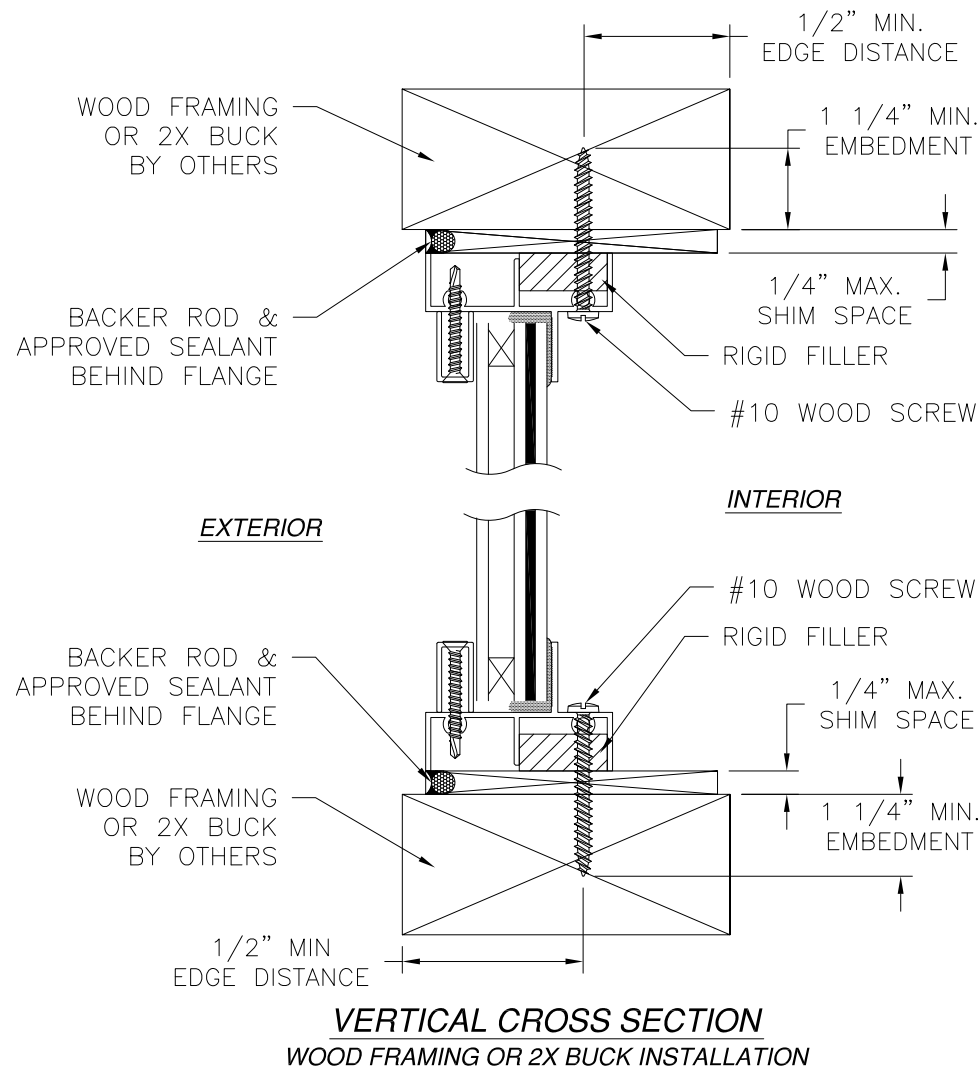
1432 WOODFORD RD LEWISVILLE, NC 27023

434-688-0609 rllomas@lrlomaspe.com

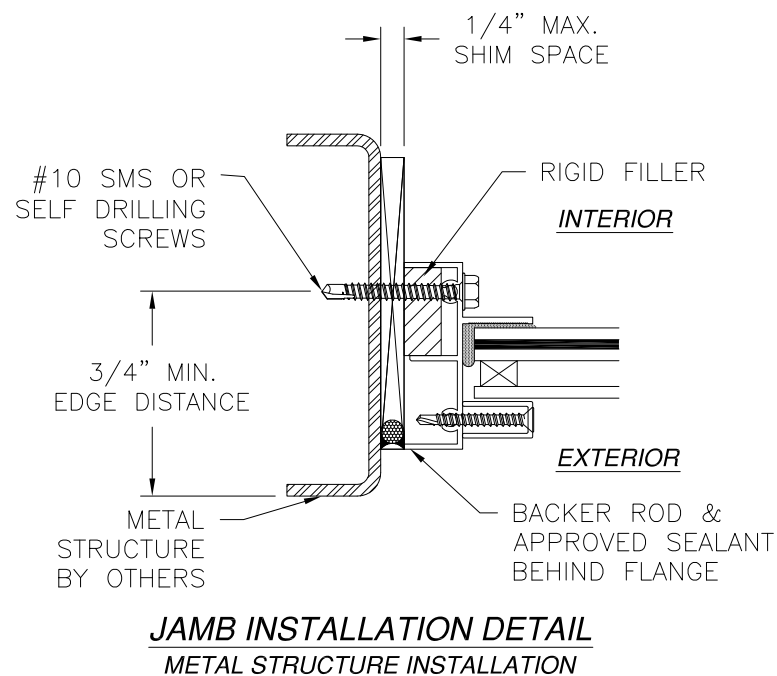
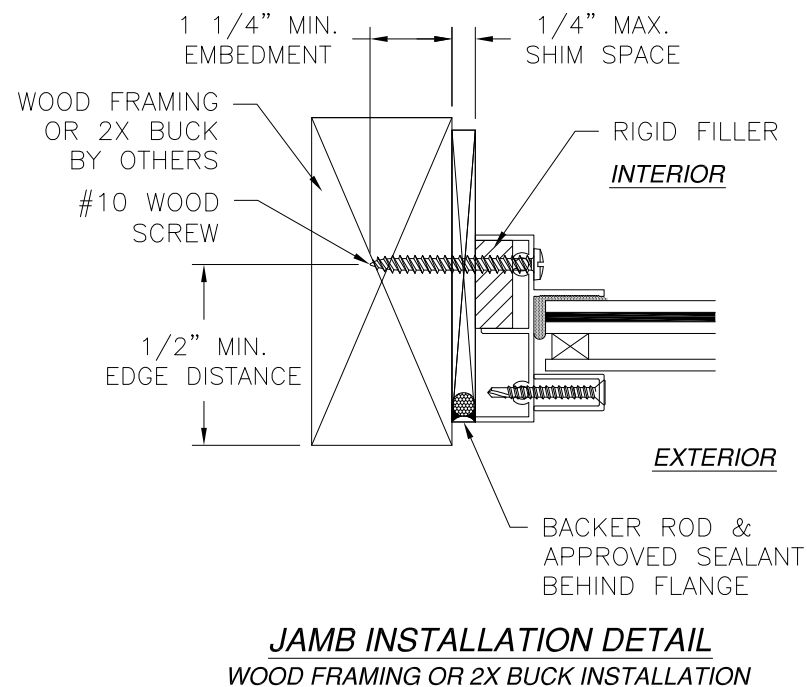


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FINLESS INSTALLATION DETAILS WITH RIGID FILLER

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SHEET 10 OF 12

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LUIS R. LOMAS

LICENS. M.C.S.

No. 62514

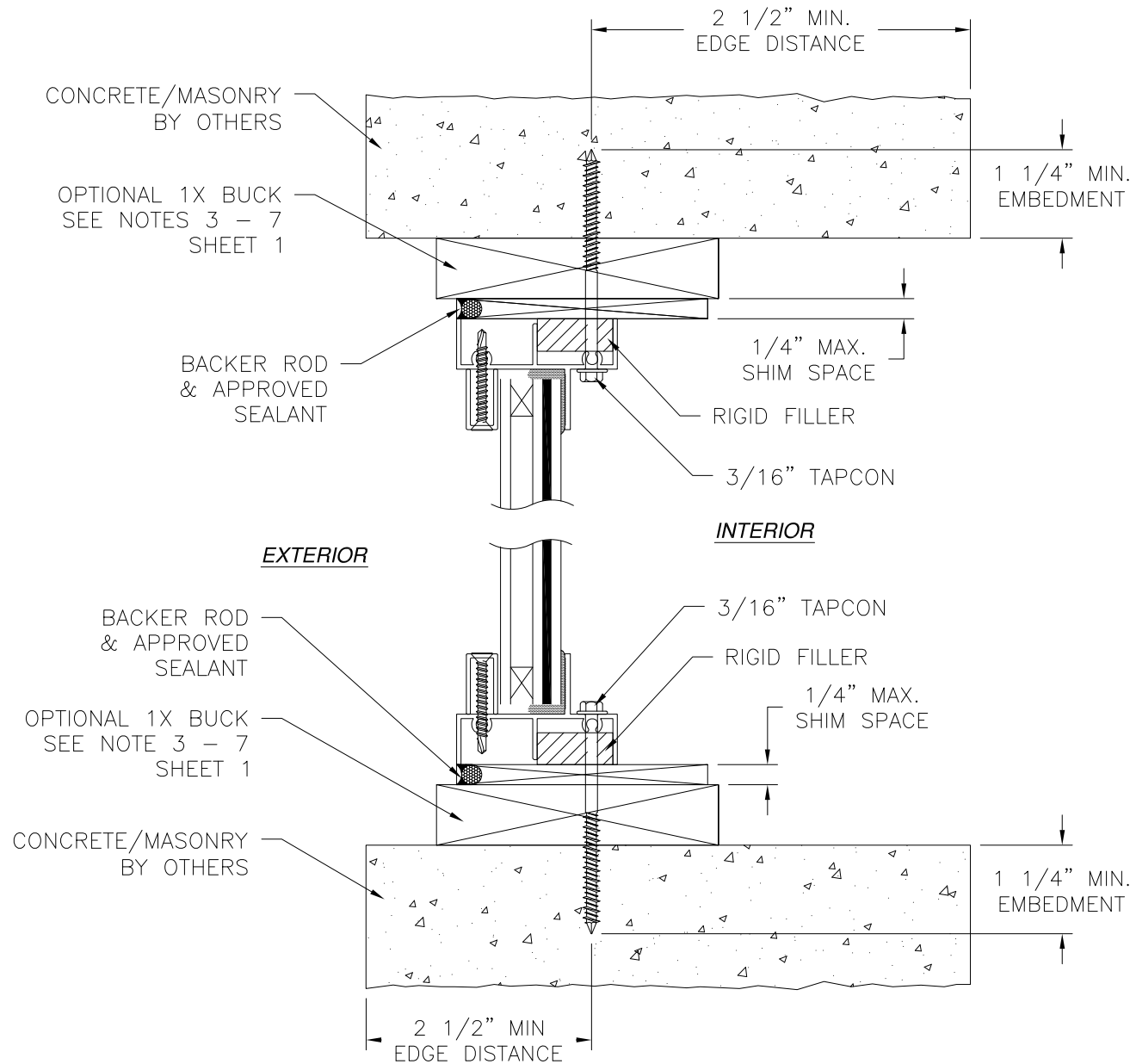
STATE OF FLORIDA

PROFESSIONAL ENGINEER

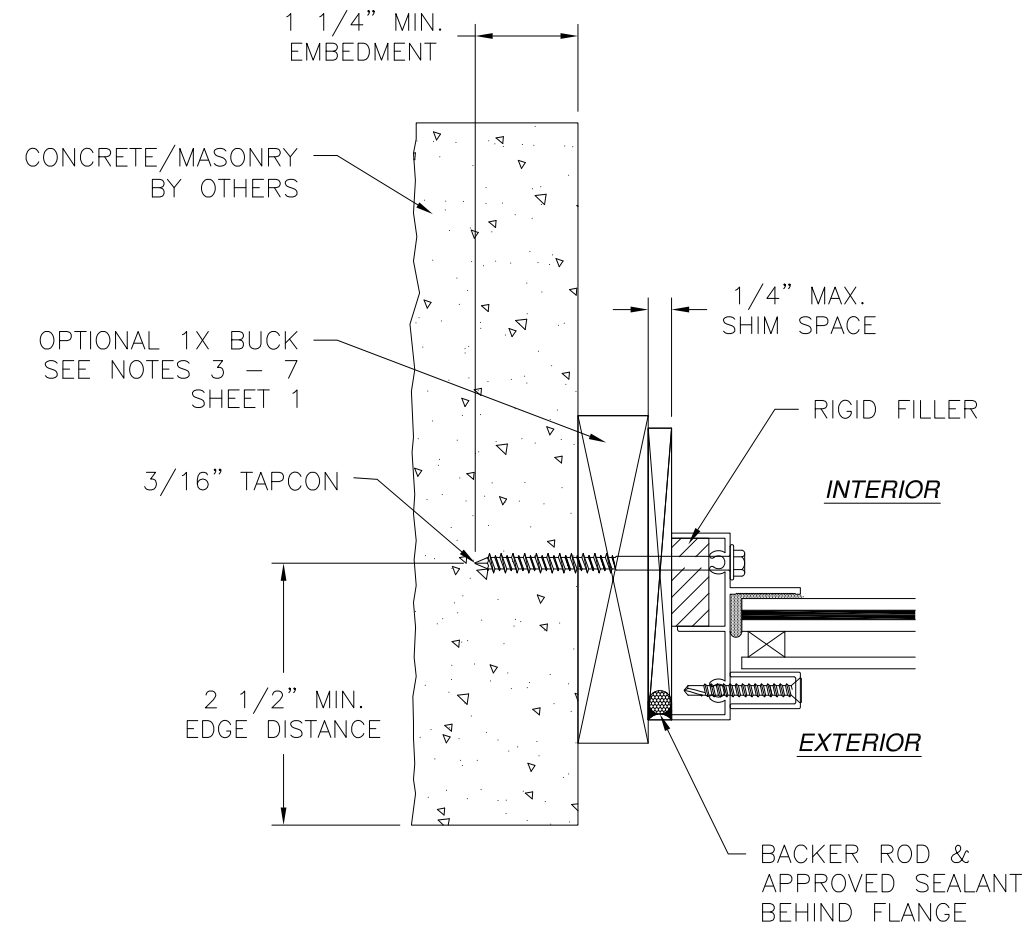
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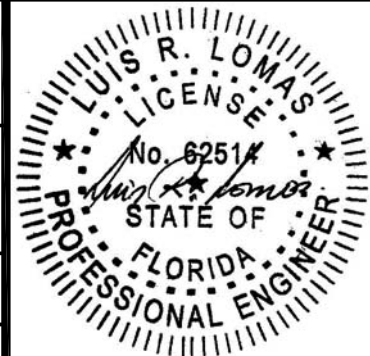
SHEET 11 OF 12

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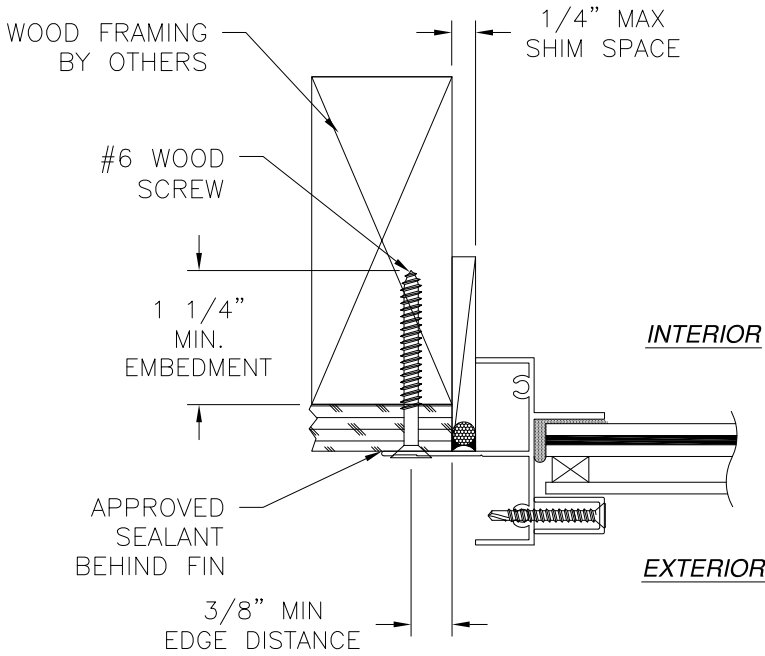
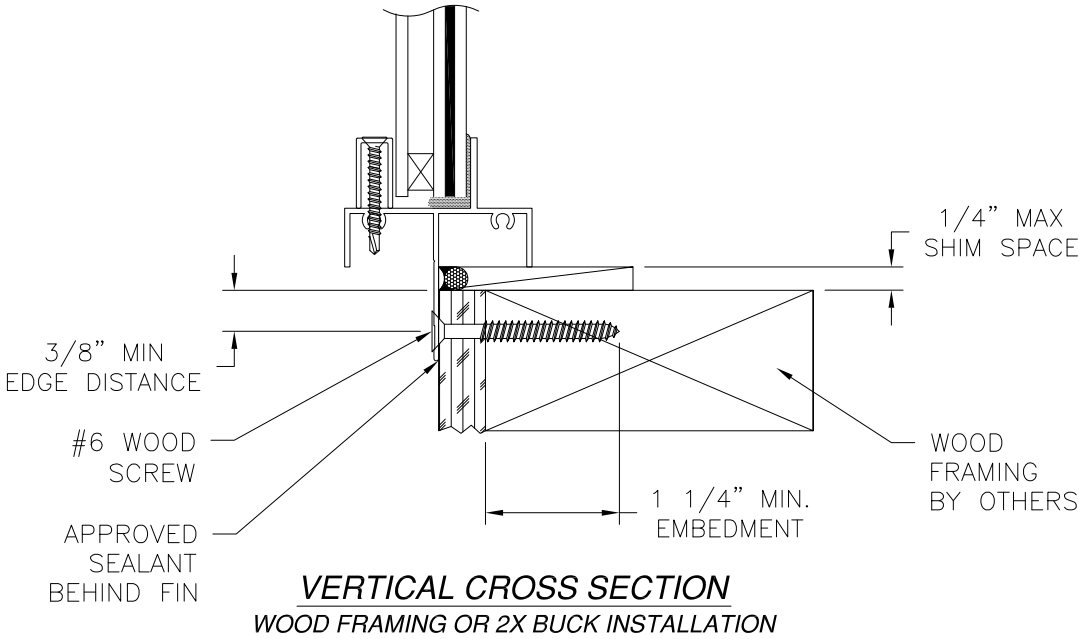
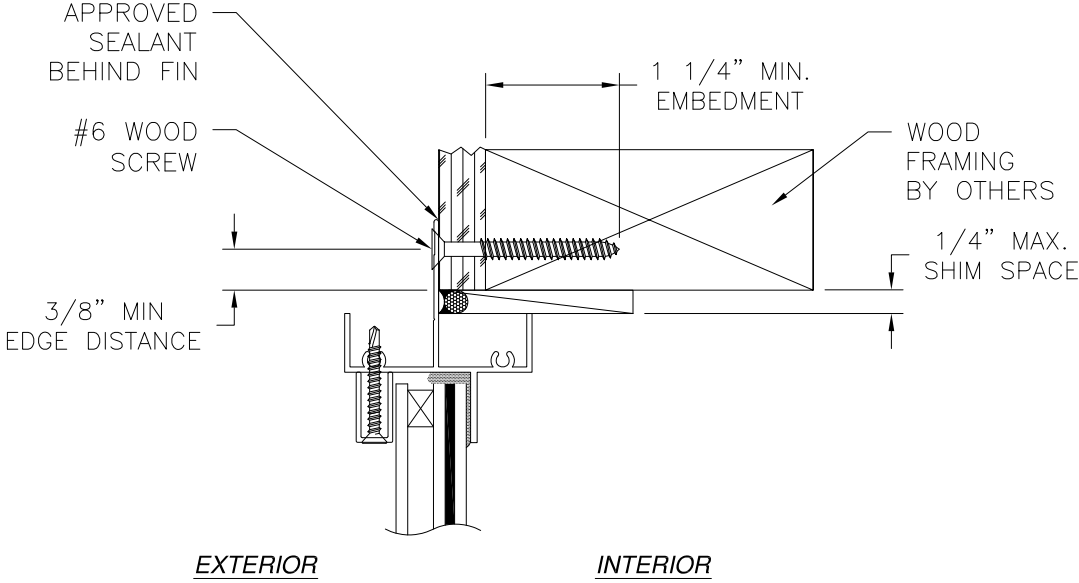
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