

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED GLASS	10/03/17	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. FOR FIN INSTALLATION SHIM AS NEEDED. FOR FRAME INSTALLATION 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: EXTRUDED ALUMINUM 6063-T5.
12. UNITS MUST BE GLAZED PER ASTM E1300-04/09, SEE SHEET 14 FOR GLASS DETAILS.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING THROUGH FIN 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 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 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 .048" THICK MINIMUM

TABLE OF CONTENTS	
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4 - 13	INSTALLATION DETAILS
14	COMPONENTS

MI WINDOWS AND DOORS, LLC

650 WEST MARKET STREET

GRATZ, PA 17030-0370

SERIES 185 ALUMINUM TRIPLE SINGLE HUNG WINDOW

111" X 72" NON-IMPACT

NOTES

DRAWN:

DWG NO.

REV

N.G.

08-02548

B

SCALE NTS

DATE 01/05/15

SHEET 1 OF 14

L. ROBERTO LOMAS P.E.

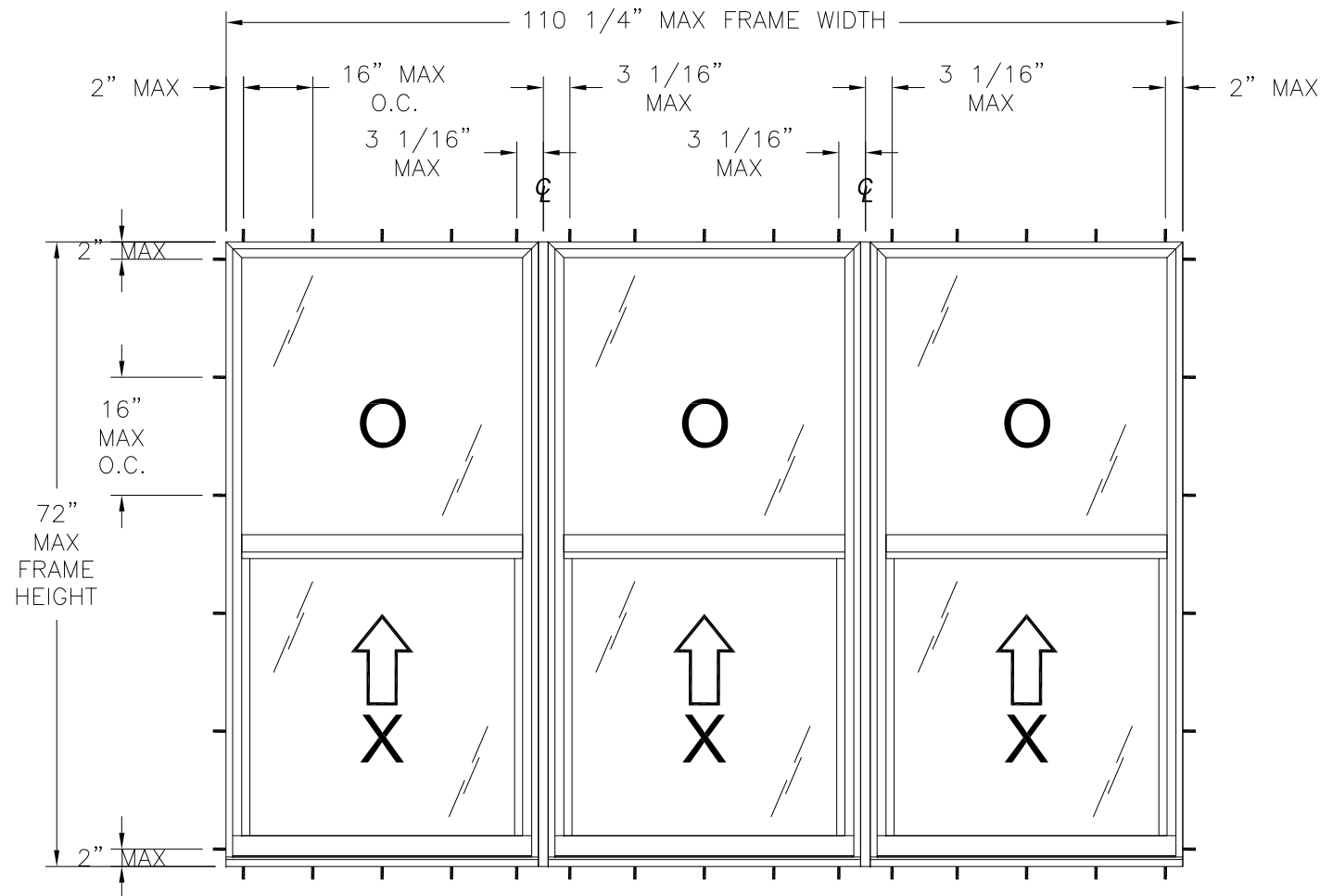
1432 WOODFORD RD LEWISVILLE, NC 27023

434-688-0609 rllomas@lrlomaspe.com

SIGNED: 02/27/2020



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



185 ALUMINUM TRIPLE SINGLE HUNG WINDOW
EXTERIOR VIEW
FLANGE & FINLESS INSTALLATION
WITHOUT FILLERS
SEE CHART #1 SHEET 2 FOR SMALLER UNITS REQUIRED ANCHORS

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	NONE

- NOTES:
- 1. MAXIMUM SASH SIZE: 35 3/8" X 36".
 - 2. MAXIMUM SASH D.L.O.: 31 1/2" X 31 7/8".
 - 3. MAXIMUM FIXED D.L.O.: 33 1/4" X 32 5/8".

HARDWARE SCHEDULE	
A.	(2) METAL SWEEP LOCK AT 8" FROM EACH END INTERIOR MEETING RAIL
B.	(2) BLOCK AND TACKLE BALANCE AT JAMBS
C.	(1) FLANGE VERTICAL MULLION (SECT 5764)
D.	(1) FIN VERTICAL MULLION (CM-18514)

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CHART #1

Number of anchor locations required								
Frame Height (in)	Frame Width (in)							
	56.63		78.75		90.75		110.25	
	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb
24.00	6	3	9	3	9	3	9	3
30.00	6	3	9	3	9	3	9	3
36.00	6	3	9	3	9	3	9	3
42.00	6	4	9	4	9	4	9	4
48.00	6	4	9	4	12	4	12	4
54.00	6	5	9	5	12	5	15	5
60.00	6	5	9	5	12	5	15	5
66.00	9	5	12	5	15	5	15	5
72.00	9	6	12	6	15	6	15	6

SIGNED: 02/27/2020

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

SERIES 185 ALUMINUM TRIPLE SINGLE HUNG WINDOW
111" X 72" NON-IMPACT
FLANGE & FINLESS ELEVATIONS

DRAWN:
N.G.

DWG NO.
08-02548

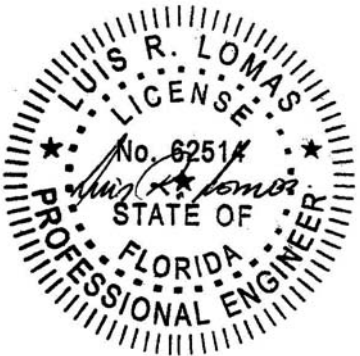
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SCALE NTS

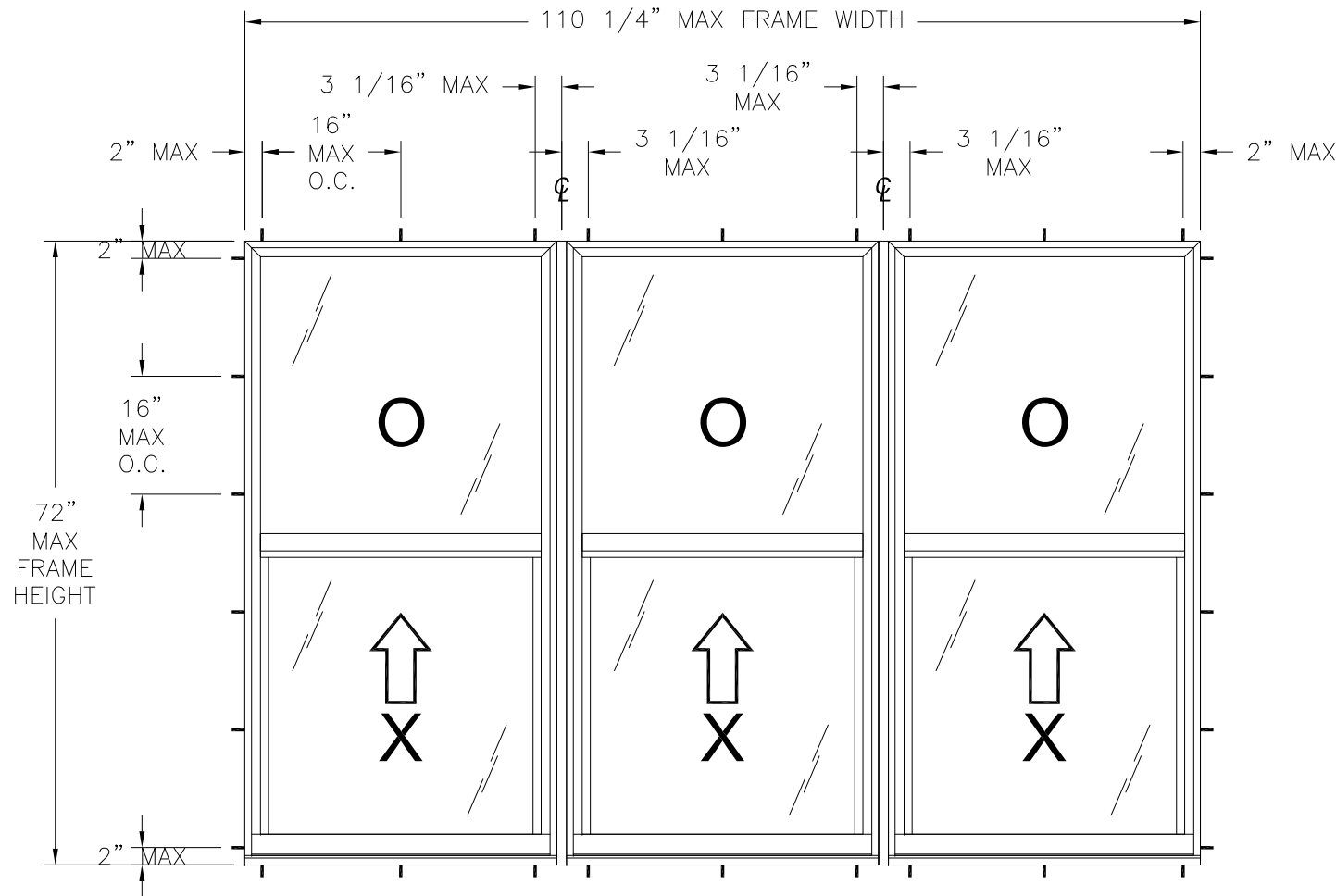
DATE 01/05/15

SHEET 2 OF 14

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FL No.: 62514



185 ALUMINUM TRIPLE SINGLE HUNG WINDOW
EXTERIOR VIEW
FLANGE & FINLESS INSTALLATION
WITH FILLERS
SEE CHART #2 SHEET 3 FOR SMALLER UNITS REQUIRED ANCHORS

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	NONE

- NOTES:
1. MAXIMUM SASH SIZE: 35 3/8" X 36".
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CHART #2

Number of anchor locations required								
Frame Height (in)	Frame Width (in)							
	56.63		78.75		90.75		110.25	
	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb
24.00	6	3	9	3	9	3	9	3
30.00	6	3	9	3	9	3	9	3
36.00	6	3	9	3	9	3	9	3
42.00	6	4	9	4	9	4	9	4
48.00	6	4	9	4	9	4	9	4
54.00	6	5	9	5	9	5	9	5
60.00	6	5	9	5	9	5	9	5
66.00	6	5	9	5	9	5	9	5
72.00	6	6	9	6	9	6	9	6

SIGNED: 02/27/2020

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

SERIES 185 ALUMINUM TRIPLE SINGLE HUNG WINDOW
111" X 72" NON-IMPACT
FLANGE & FINLESS ELEVATIONS

DRAWN:
N.G.

DWG NO.
08-02548

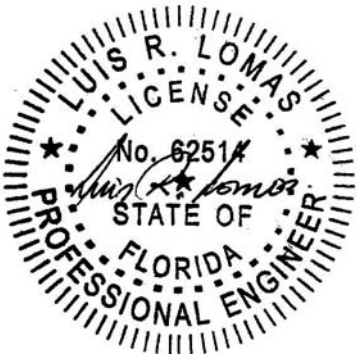
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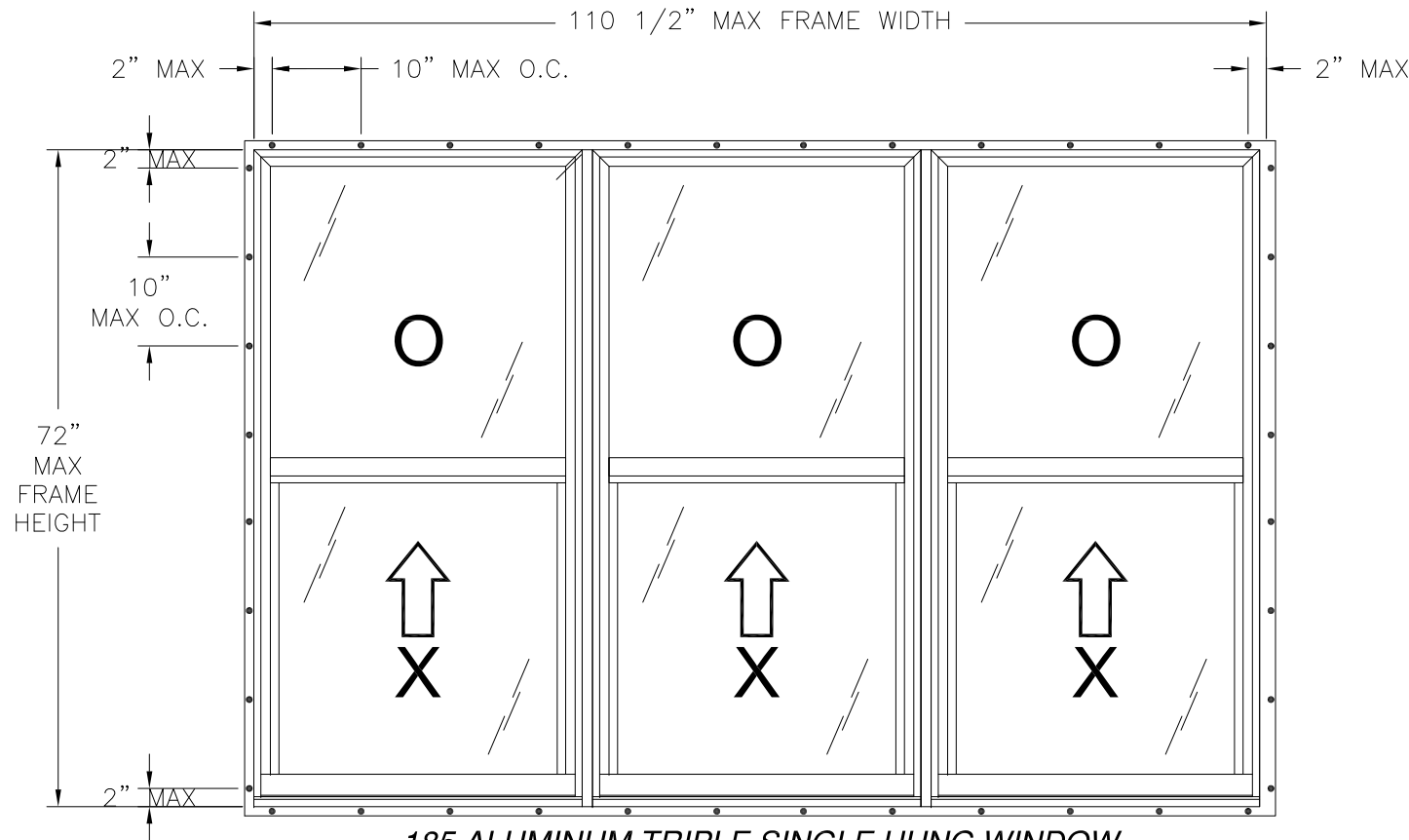
DATE
01/05/15

SHEET
3 OF 14

L. ROBERTO LOMAS P.E.
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185 ALUMINUM TRIPLE SINGLE HUNG WINDOW
EXTERIOR VIEW
FIN INSTALLATION
SEE CHART #3 FOR SMALLER UNITS REQUIRED ANCHORS

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	NONE

- NOTES:
1. MAXIMUM SASH SIZE: 35 3/8" X 36".
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CHART #3

Number of anchor locations required								
Frame Height (in)	Frame Width (in)							
	56.63		78.75		90.75		110.25	
	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb
24.00	7	3	9	3	10	3	12	3
30.00	7	4	9	4	10	4	12	4
36.00	7	5	9	5	10	5	12	5
42.00	7	5	9	5	10	5	12	5
48.00	7	6	9	6	10	6	12	6
54.00	7	6	9	6	10	6	12	6
60.00	7	7	9	7	10	7	12	7
66.00	7	8	9	8	10	8	12	8
72.00	7	8	9	8	10	8	12	8

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

SERIES 185 ALUMINUM TRIPLE SINGLE HUNG WINDOW
111" X 72" NON-IMPACT
FIN ELEVATION

DRAWN:
N.G.

DWG NO.
08-02548

REV
B

SCALE
NTS

DATE
01/05/15

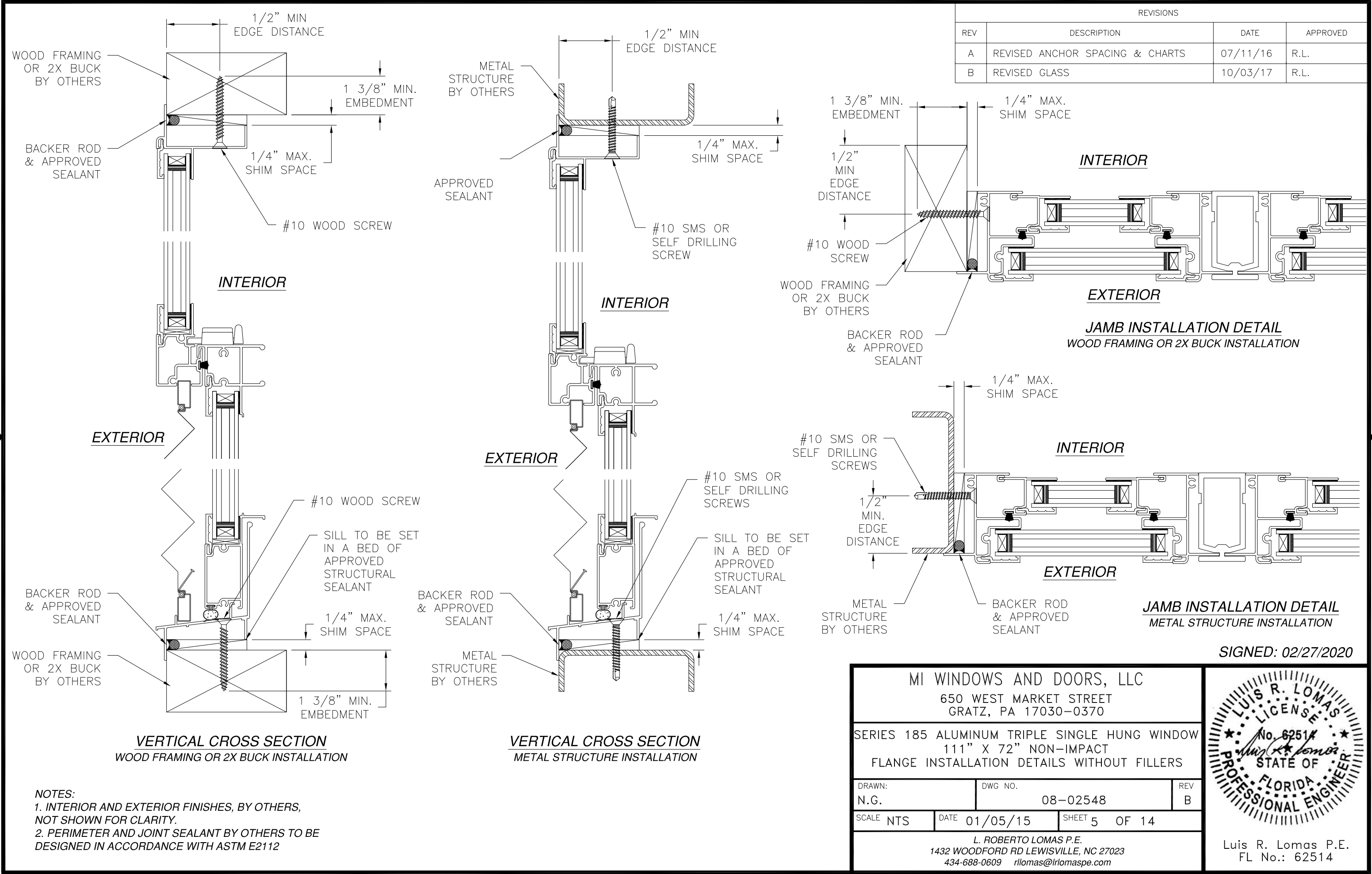
SHEET
4 OF 14

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650 WEST MARKET STREET
GRATZ, PA 17030-0370

SERIES 185 ALUMINUM TRIPLE SINGLE HUNG WINDOW
111" X 72" NON-IMPACT
FLANGE INSTALLATION DETAILS WITHOUT FILLERS

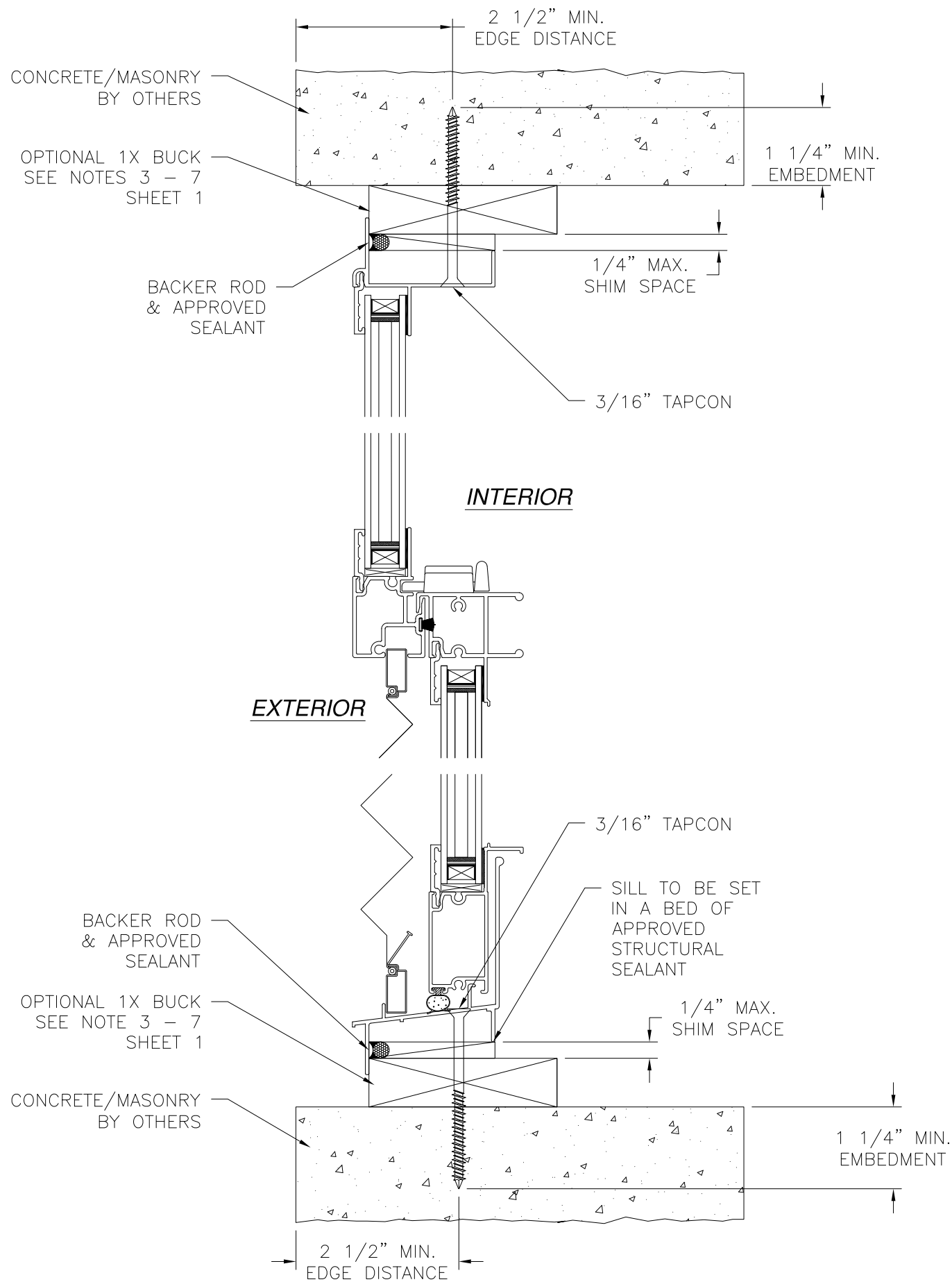
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SCALE NTS	DATE 01/05/15	SHEET 5 OF 14

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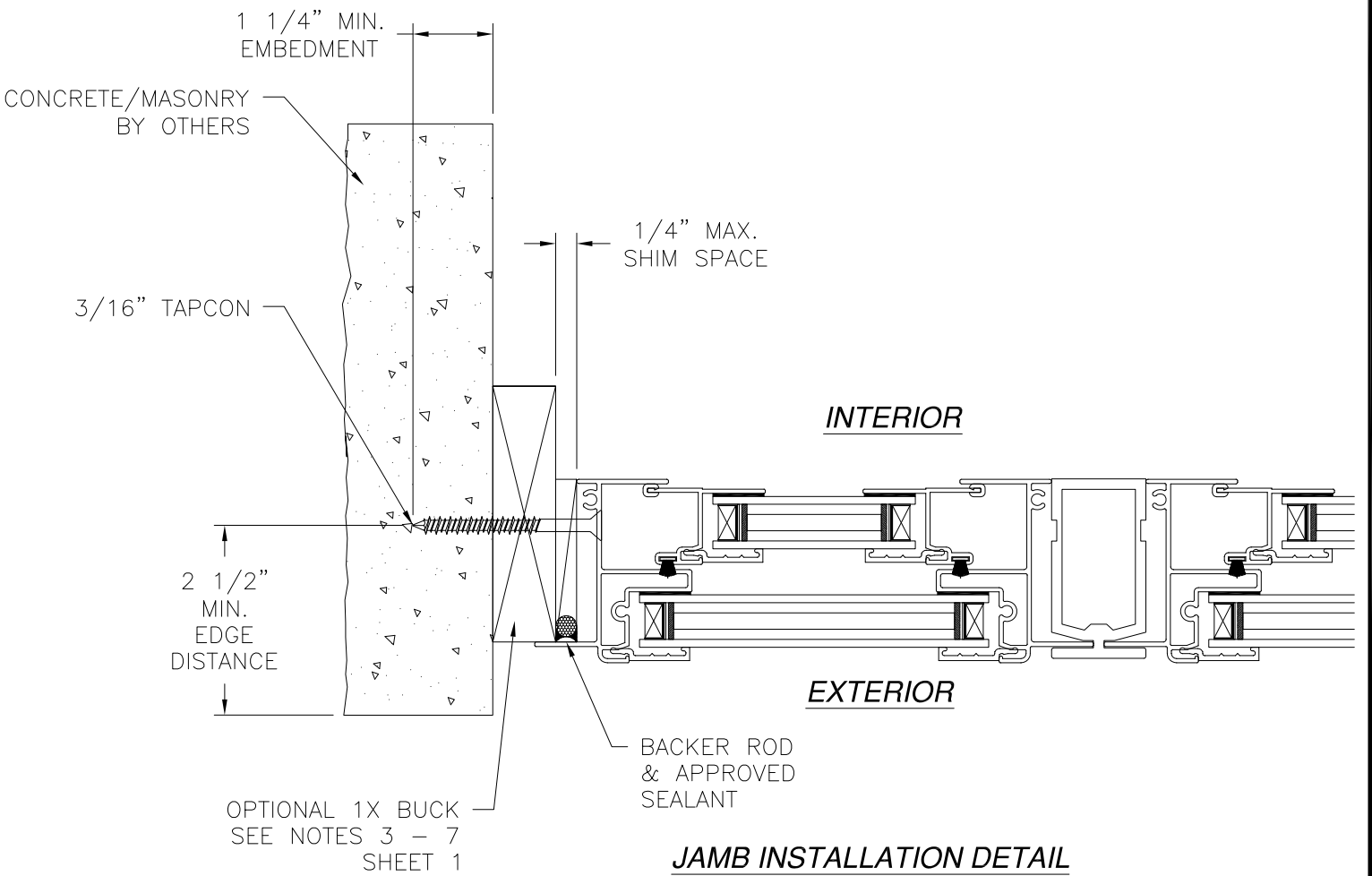
LUIS R. LOMAS
LICENSE No. 62514
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
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JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

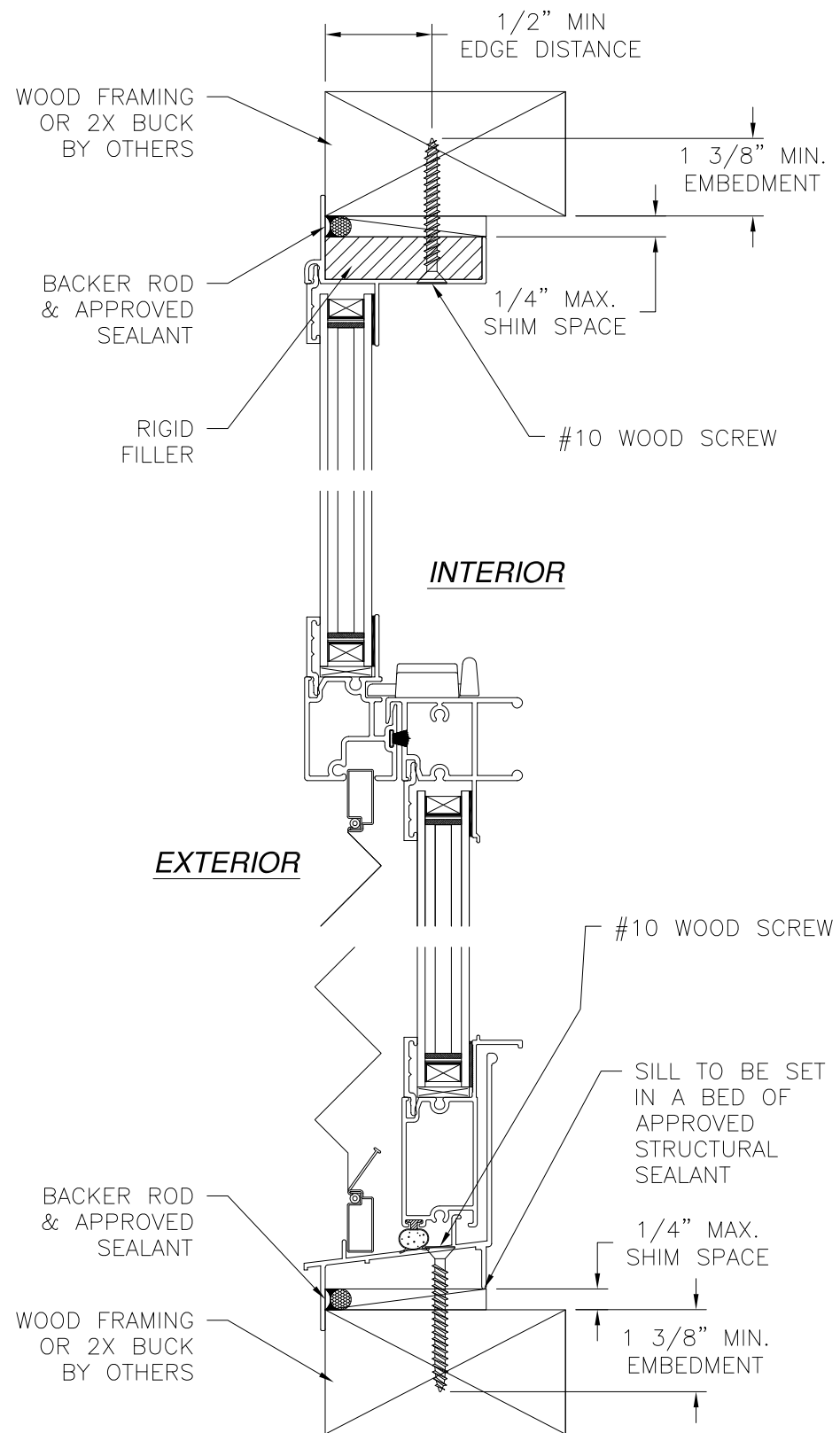
NOTES:
 1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 02/27/2020

MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 185 ALUMINUM TRIPLE SINGLE HUNG WINDOW 111" X 72" NON-IMPACT FLANGE INSTALLATION DETAILS WITHOUT FILLERS		
DRAWN: N.G.	DWG NO. 08-02548	REV B
SCALE NTS	DATE 01/05/15	SHEET 6 OF 14
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

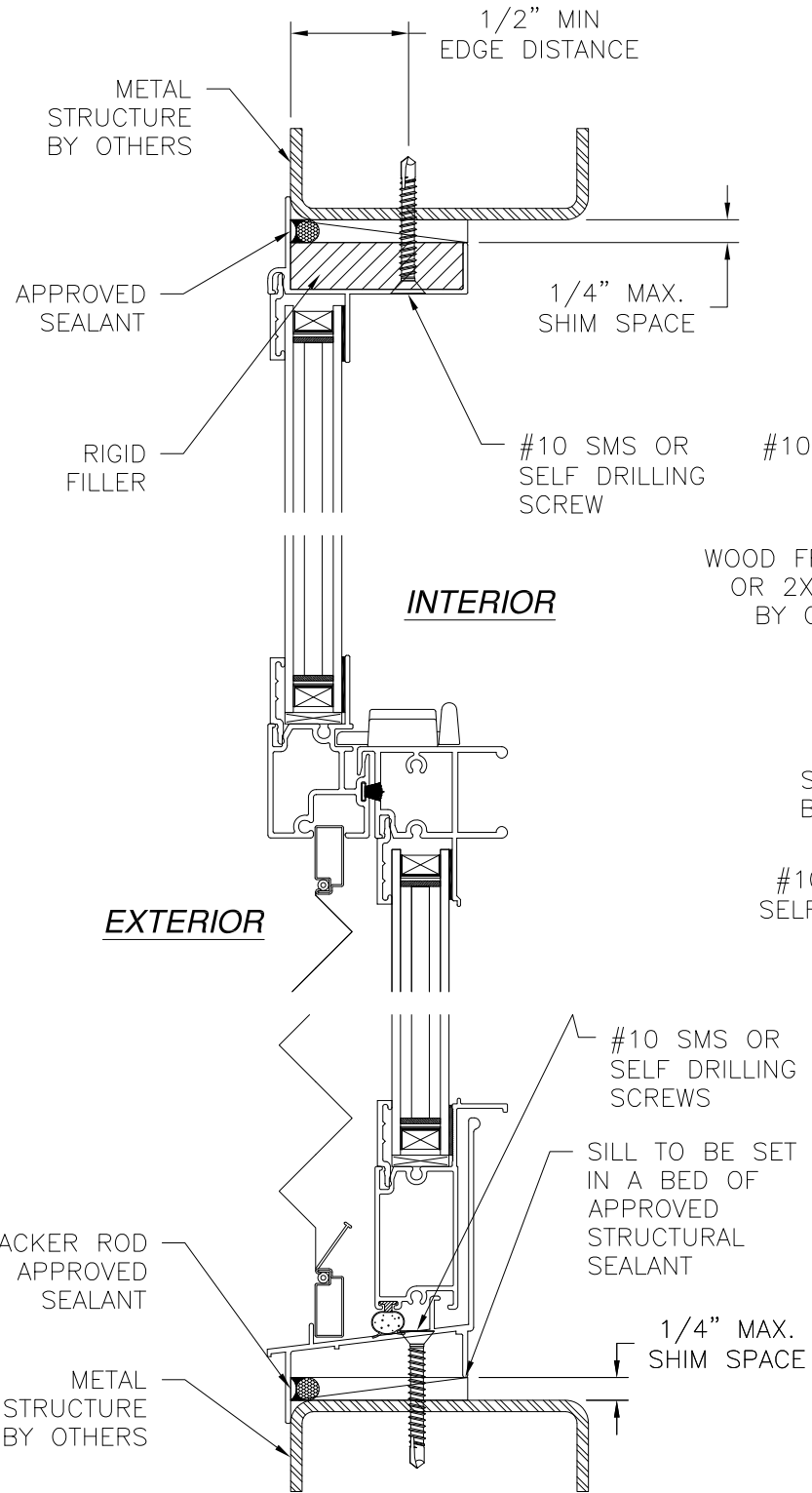


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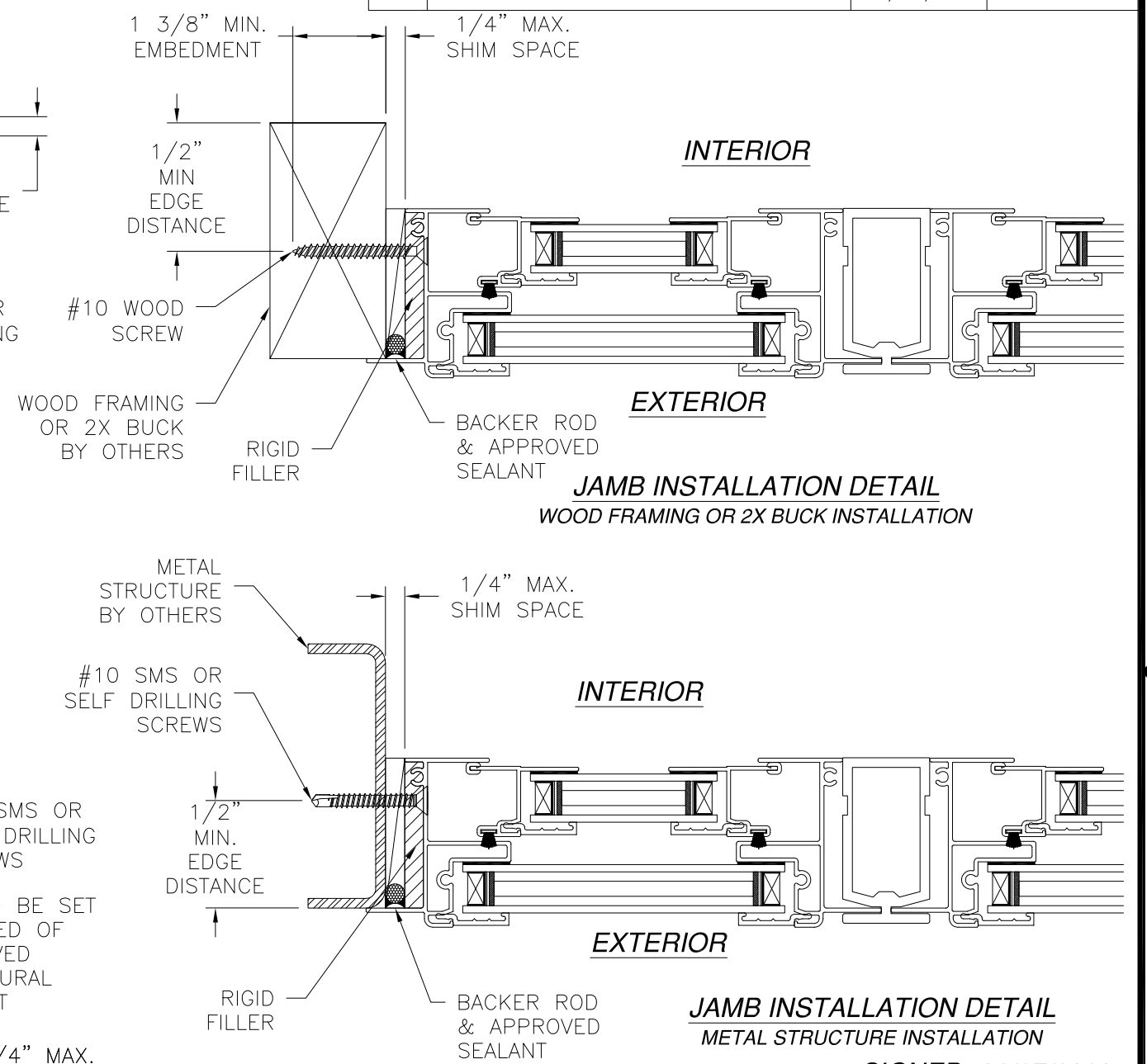


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

NOTES:
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

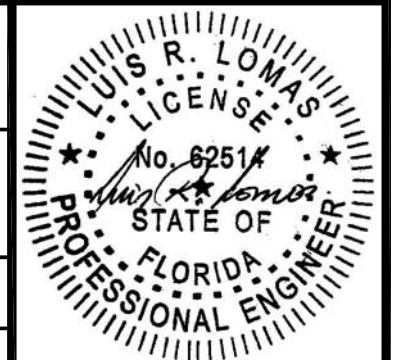


JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

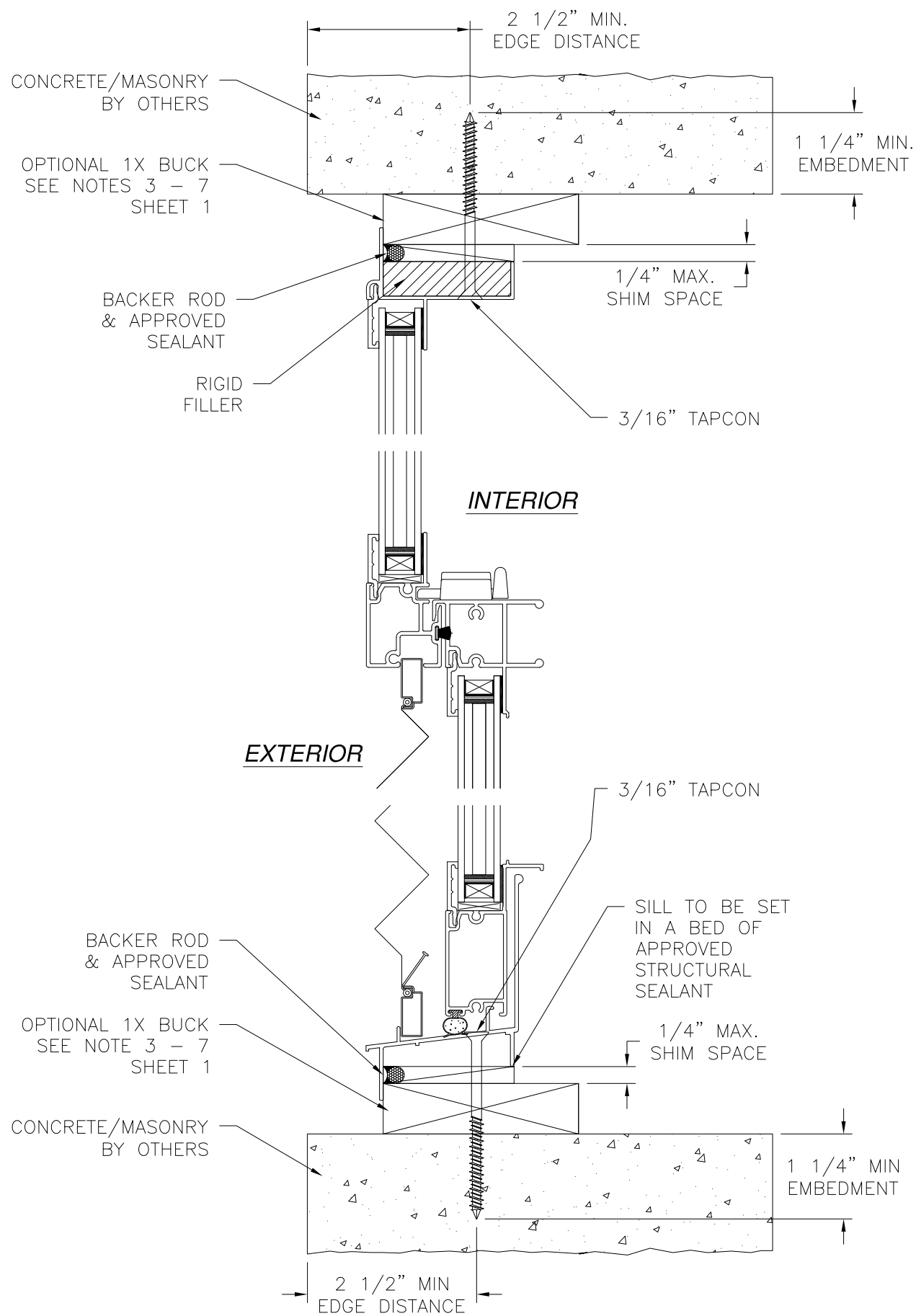
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MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 185 ALUMINUM TRIPLE SINGLE HUNG WINDOW 111" X 72" NON-IMPACT FLANGE INSTALLATION DETAILS WITH FILLERS		
DRAWN: N.G.	DWG NO. 08-02548	REV B
SCALE NTS	DATE 01/05/15	SHEET 7 OF 14
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



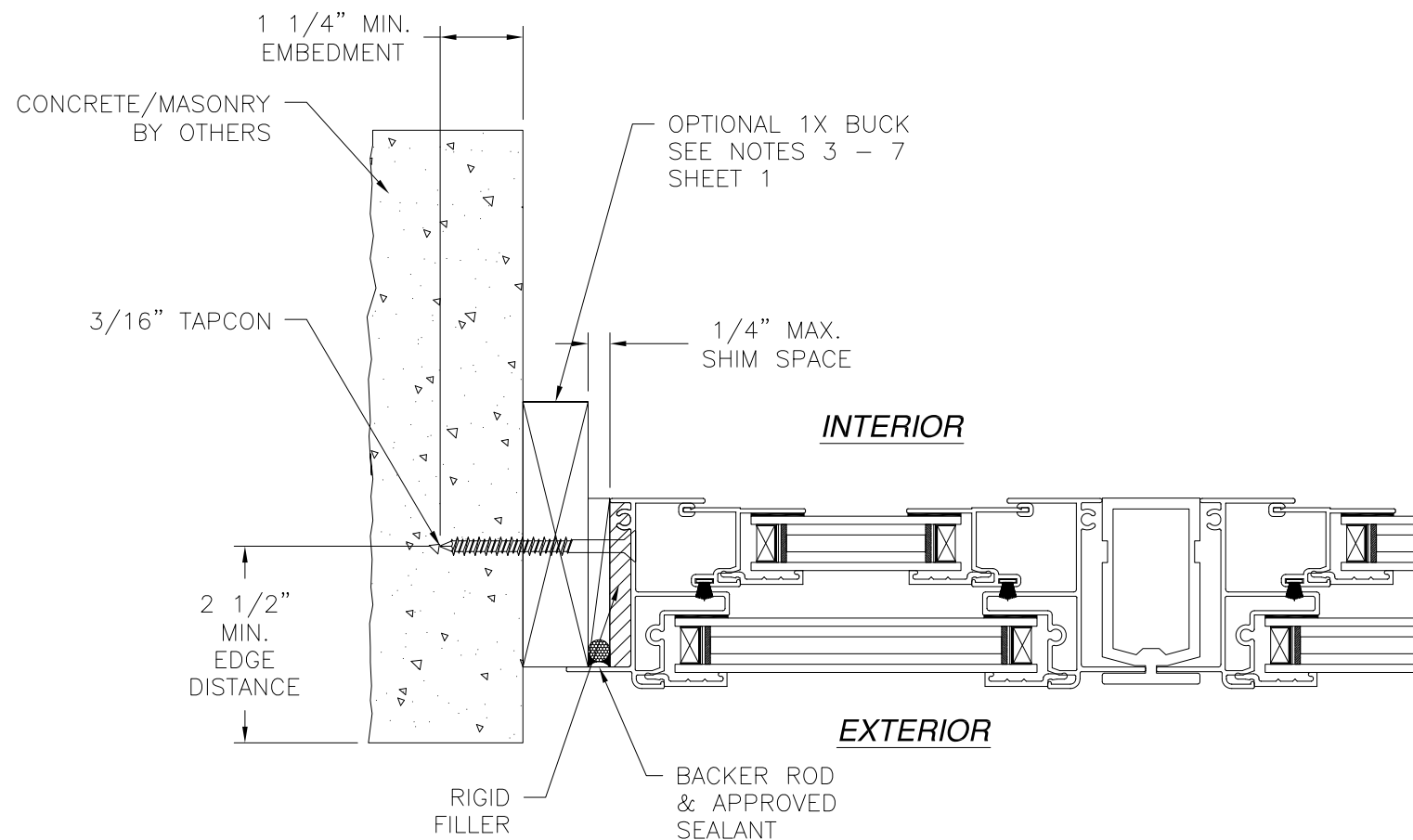
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

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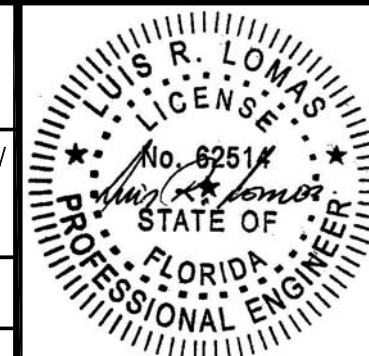


JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

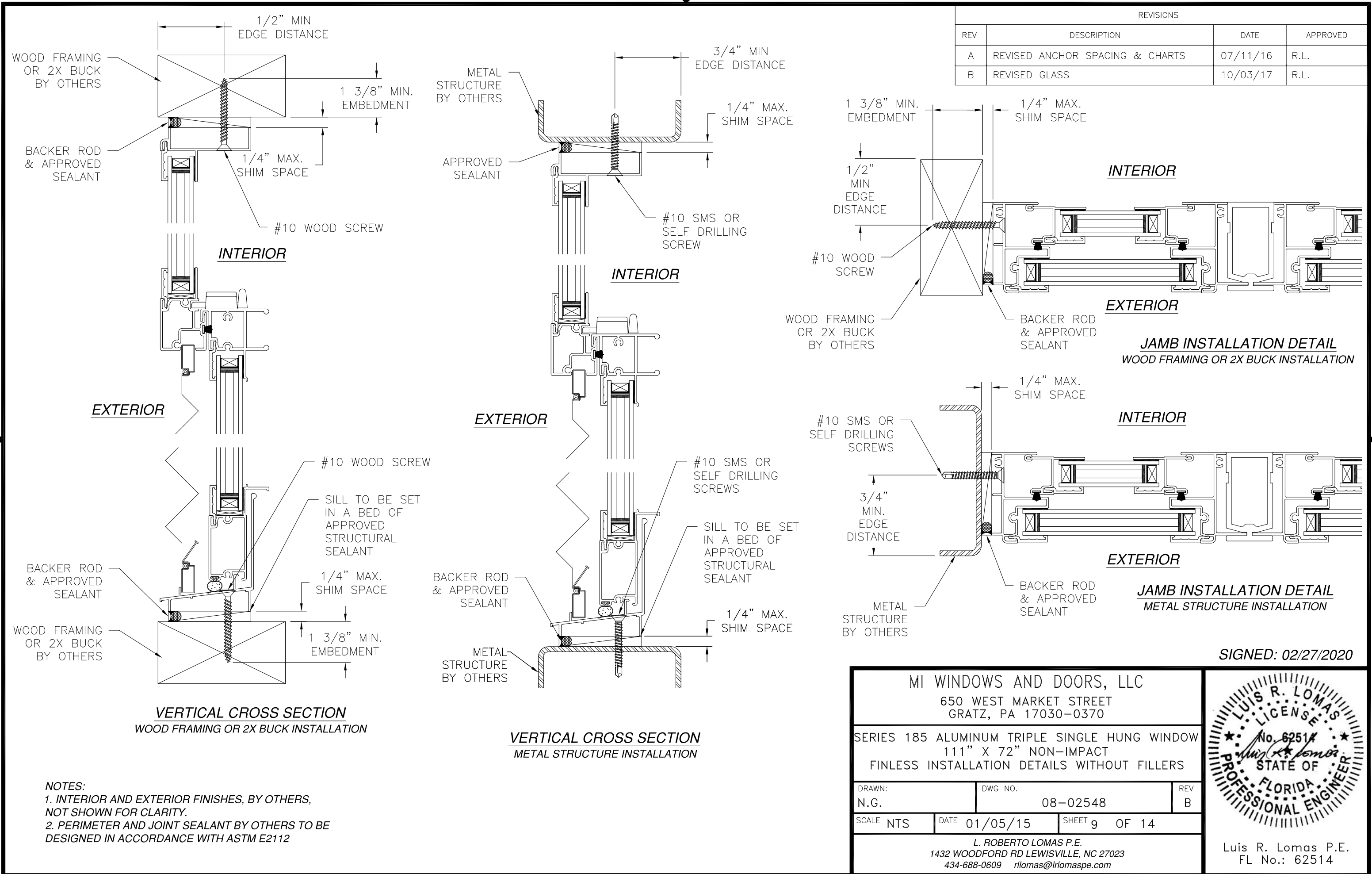
- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

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650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 185 ALUMINUM TRIPLE SINGLE HUNG WINDOW 111" X 72" NON-IMPACT FLANGE INSTALLATION DETAILS WITH FILLER		
DRAWN: N.G.	DWG NO. 08-02548	REV B
SCALE NTS	DATE 01/05/15	SHEET 8 OF 14
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



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GRATZ, PA 17030-0370

SERIES 185 ALUMINUM TRIPLE SINGLE HUNG WINDOW
111" X 72" NON-IMPACT
FINLESS INSTALLATION DETAILS WITHOUT FILLERS

DRAWN:
N.G.

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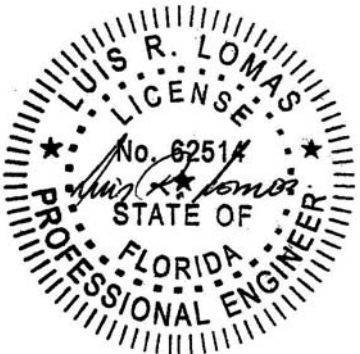
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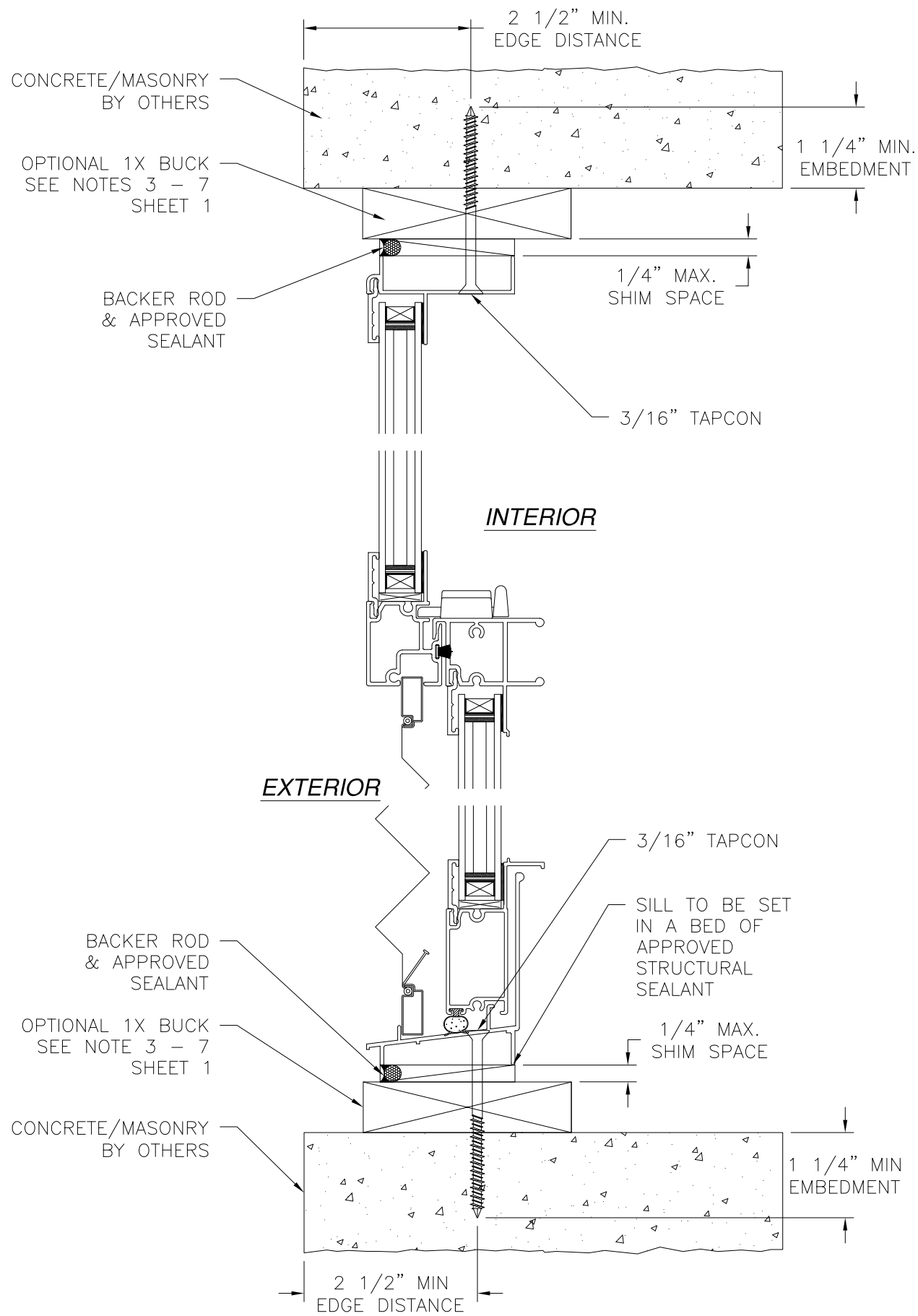
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SHEET
9 OF 14

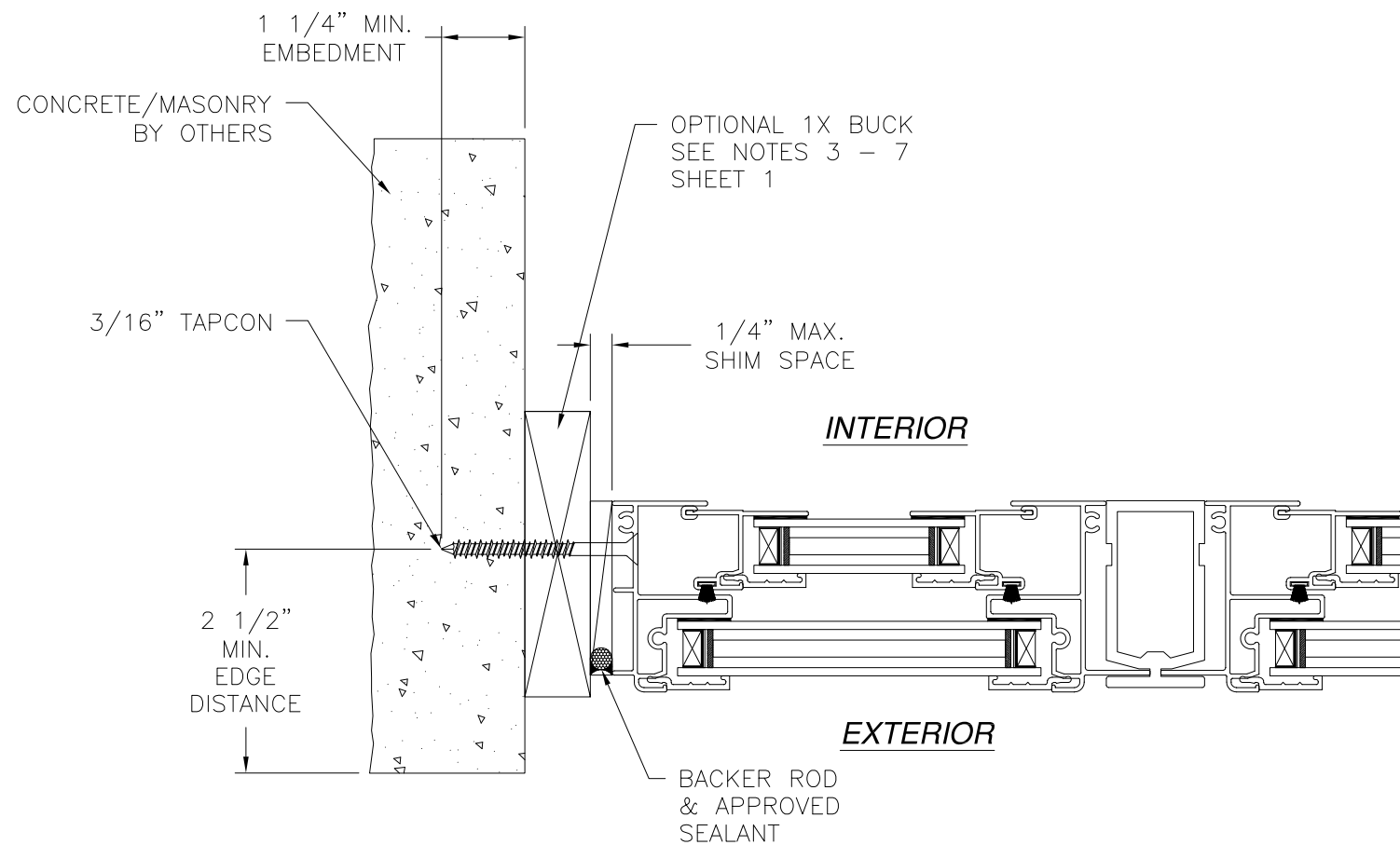
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



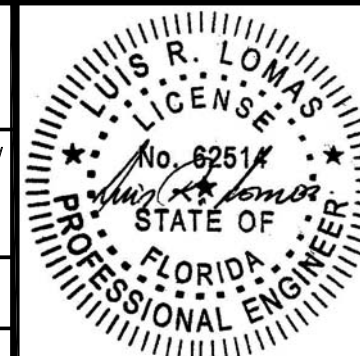
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

- NOTES:**
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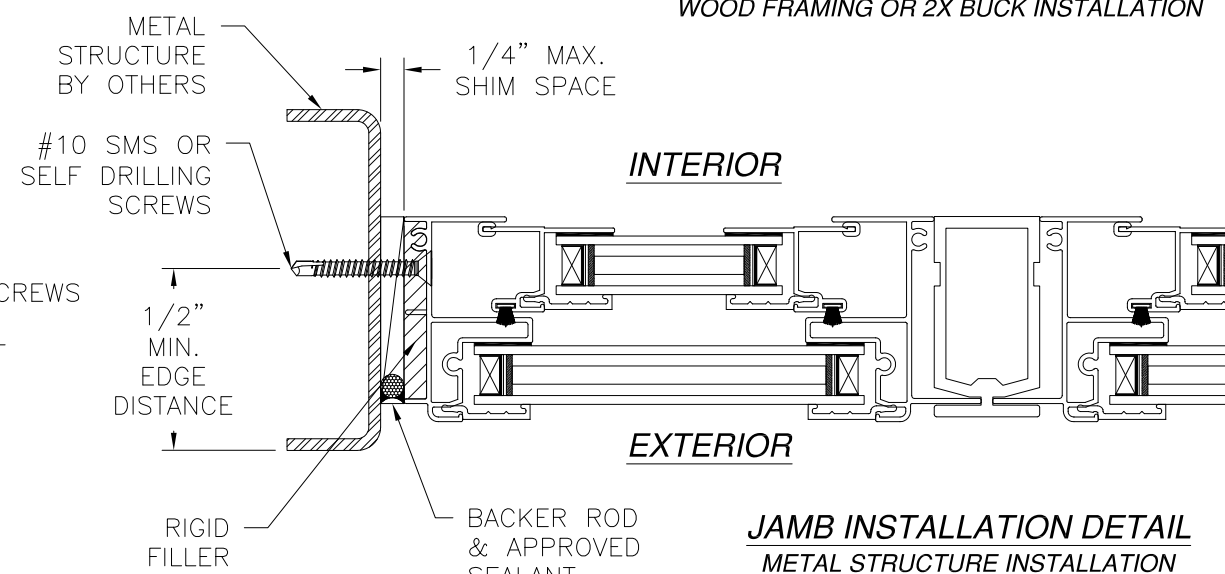
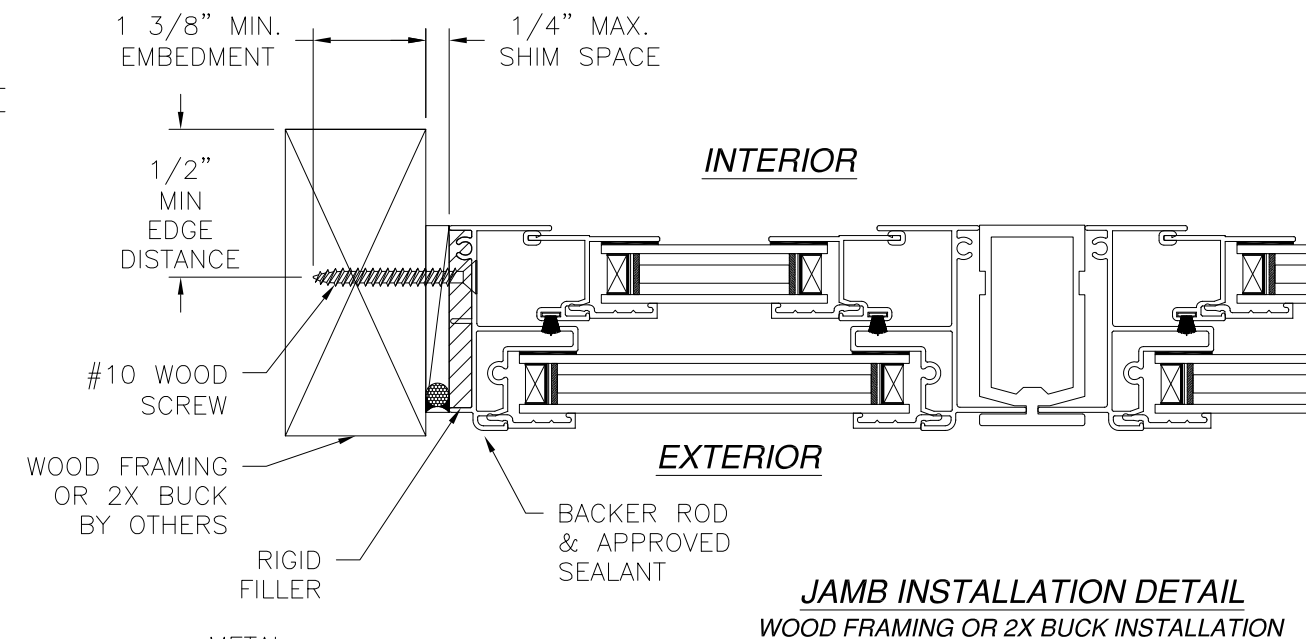
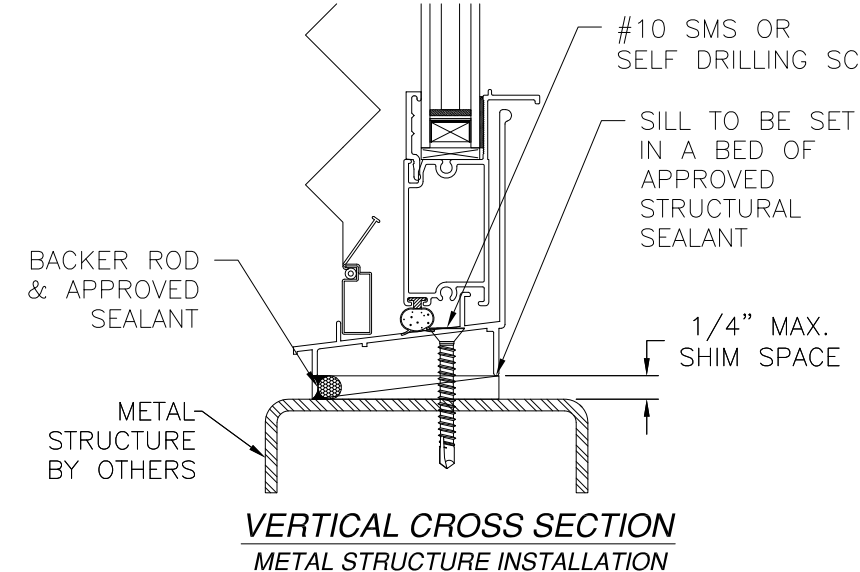
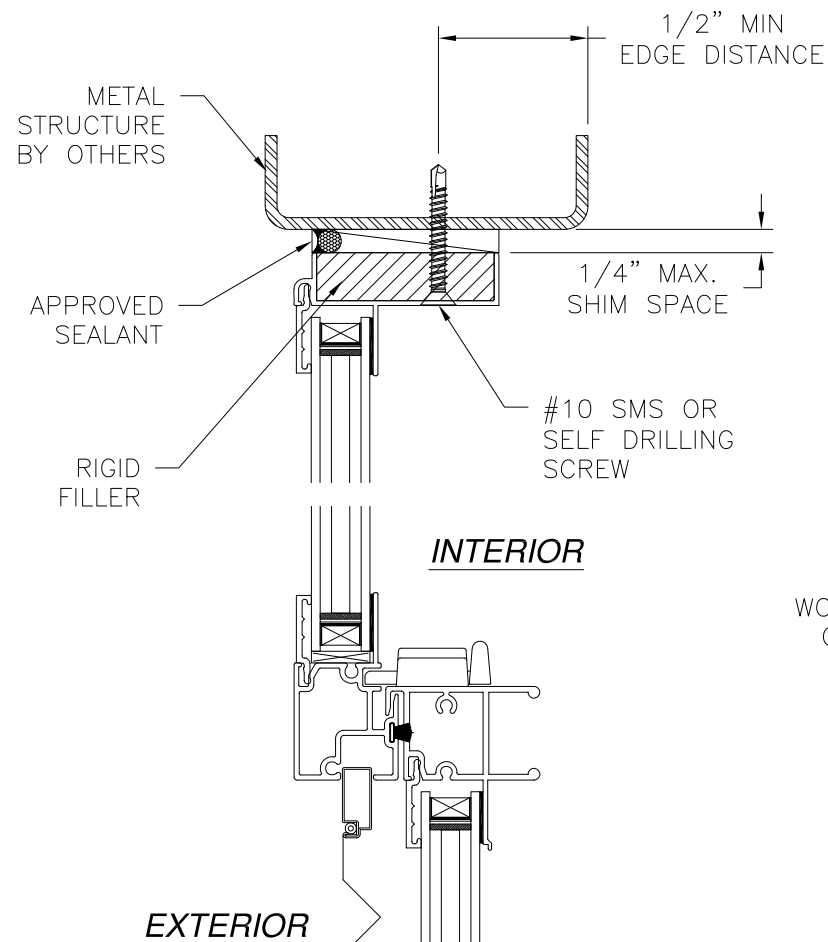
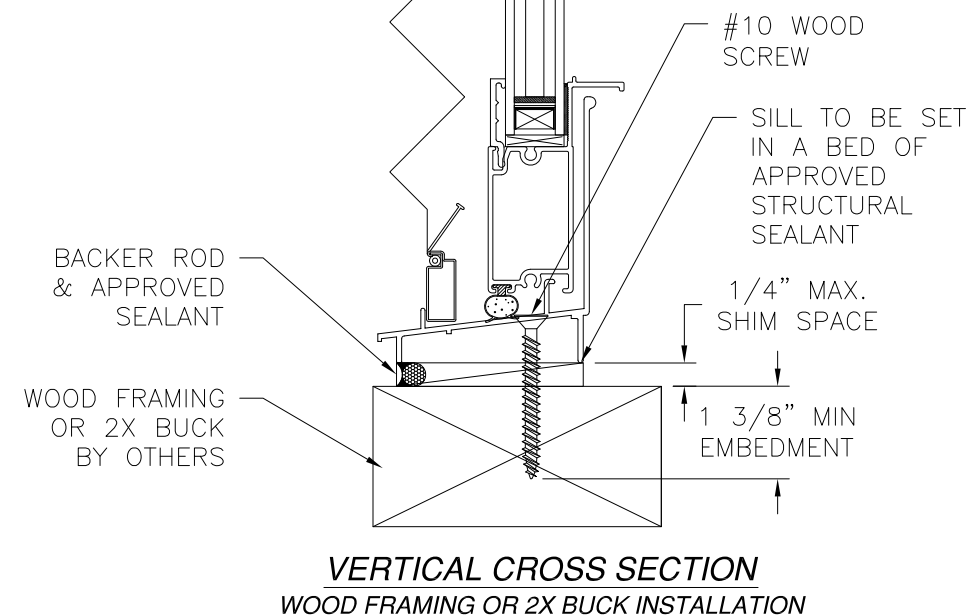
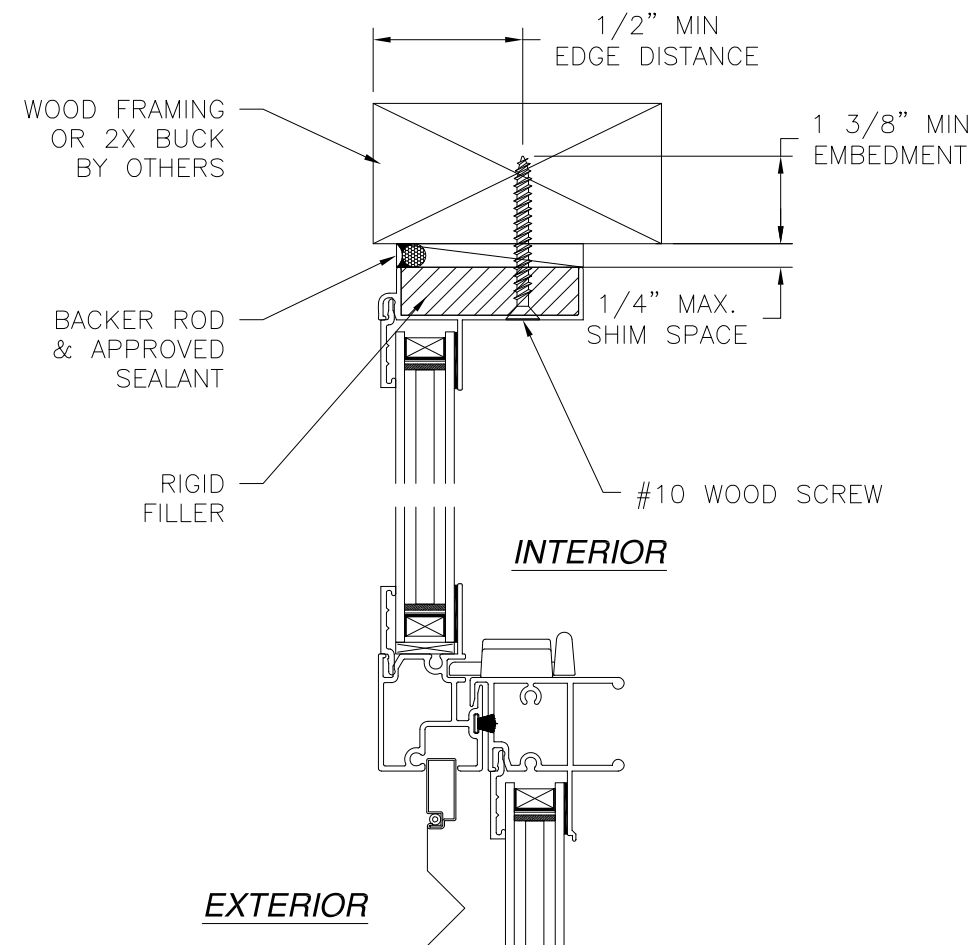
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650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 185 ALUMINUM TRIPLE SINGLE HUNG WINDOW 111" X 72" NON-IMPACT FINLESS INSTALLATION DETAILS WITHOUT FILLER		
DRAWN: N.G.	DWG NO. 08-02548	REV B
SCALE NTS	DATE 01/05/15	SHEET 10 OF 14
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 02/27/2020



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

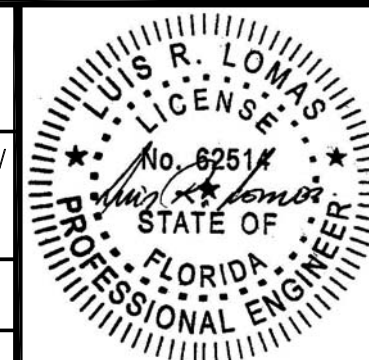


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED GLASS	10/03/17	R.L.

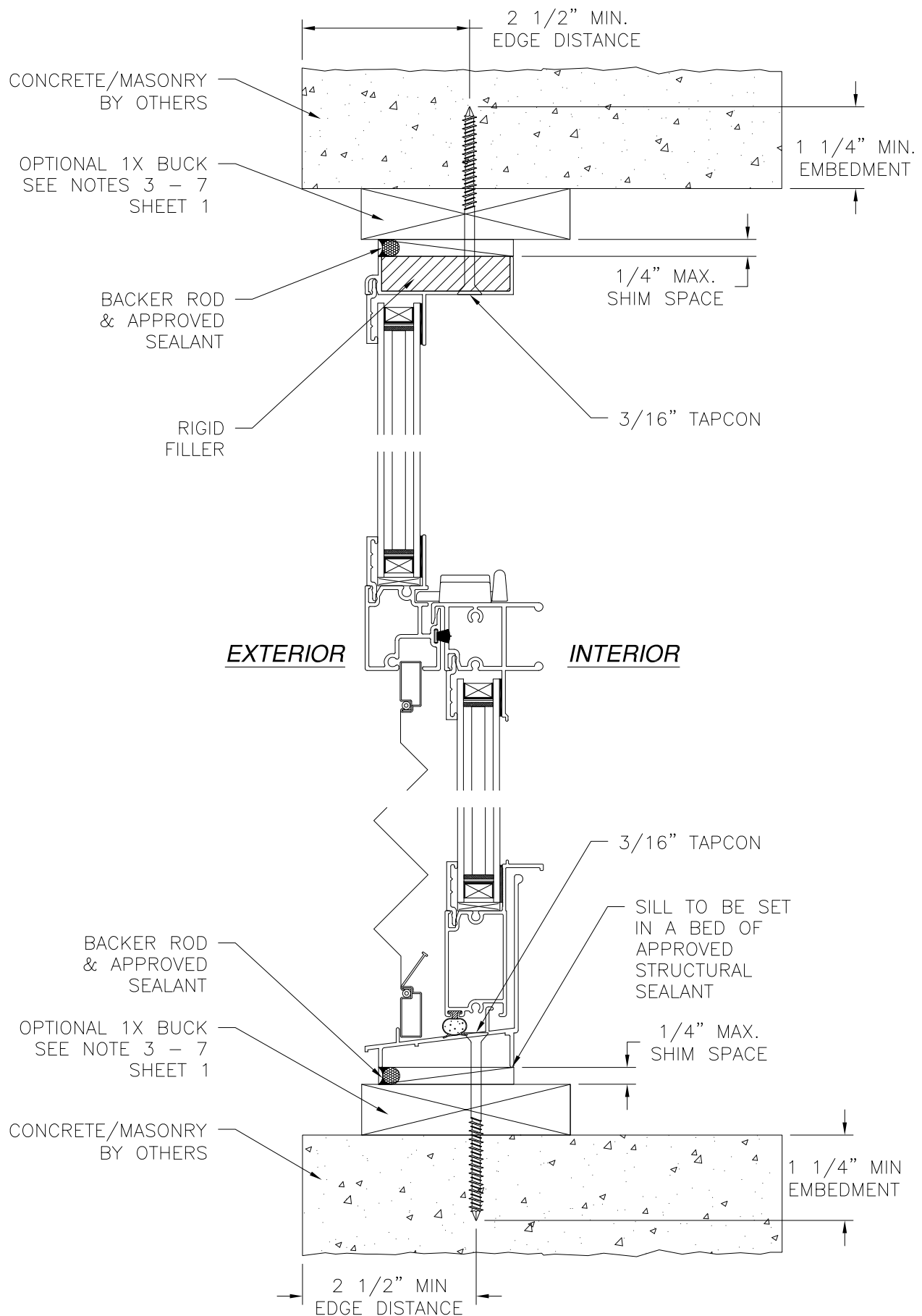
NOTES:

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

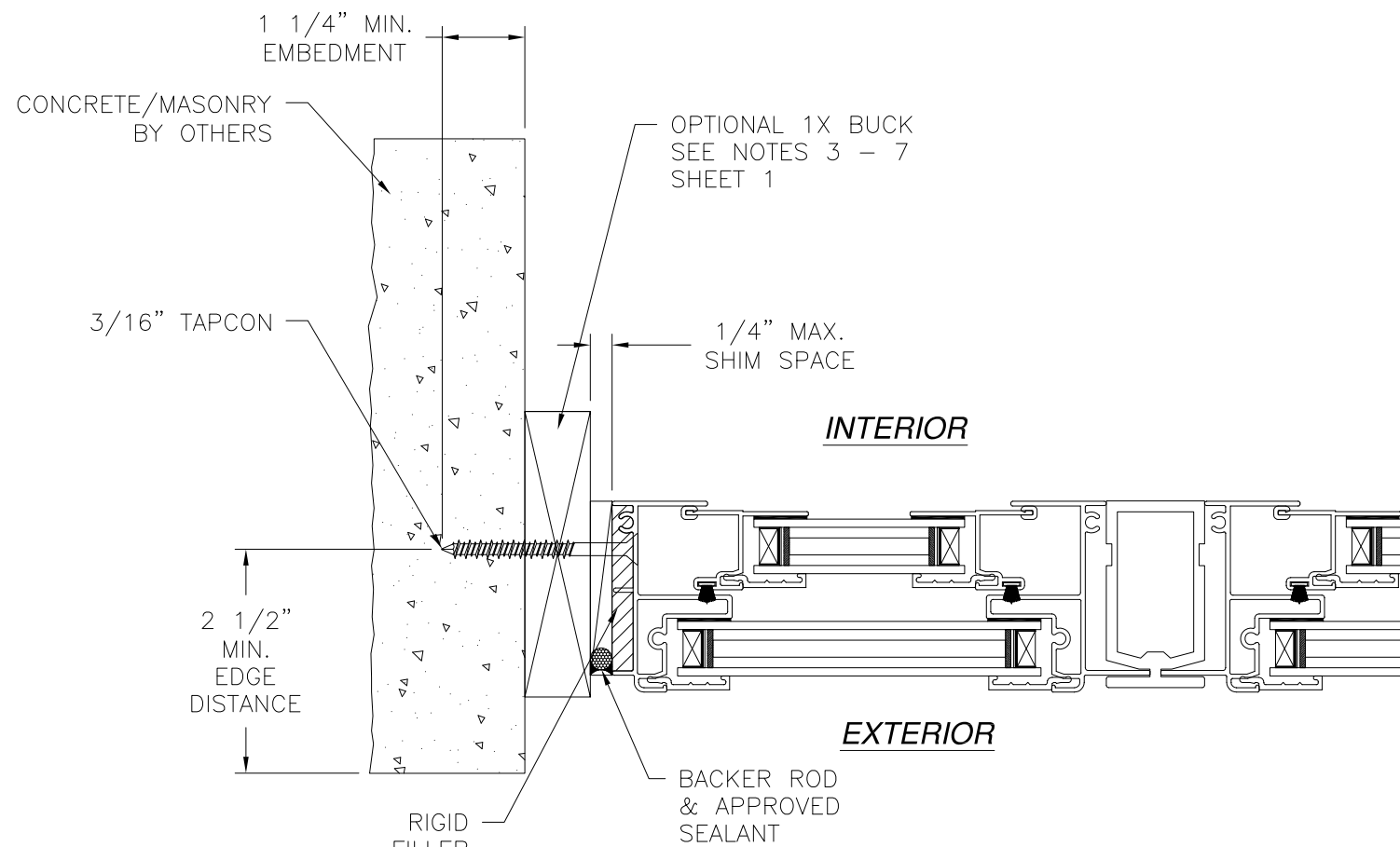
MI WINDOWS AND DOORS, LLC		
650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 185 ALUMINUM TRIPLE SINGLE HUNG WINDOW 111" X 72" NON-IMPACT FINLESS INSTALLATION DETAILS WITH FILLERS		
DRAWN: N.G.	DWG NO. 08-02548	REV B
SCALE NTS	DATE 01/05/15	SHEET 11 OF 14
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



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



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

NOTES:
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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B	REVISED GLASS	10/03/17	R.L.

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

SERIES 185 ALUMINUM TRIPLE SINGLE HUNG WINDOW
111" X 72" NON-IMPACT
FINLESS INSTALLATION DETAILS WITH FILLER

DRAWN:
N.G.

DWG NO.
08-02548

REV
B

SCALE
NTS

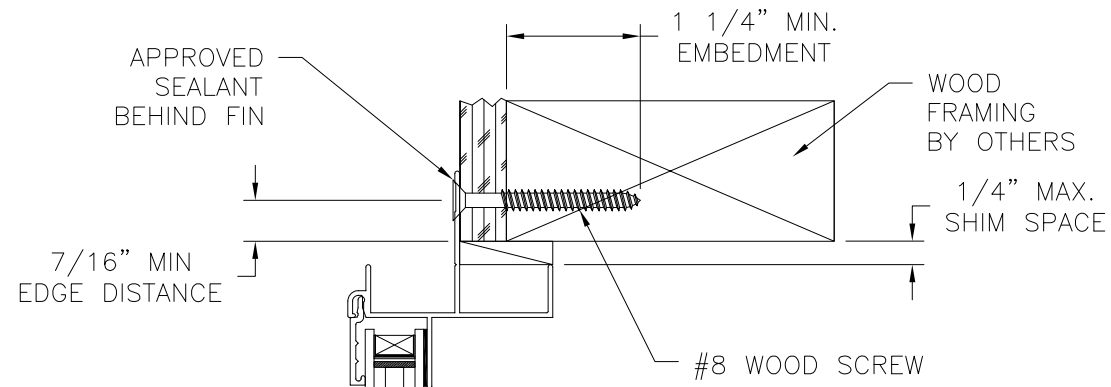
DATE
01/05/15

SHEET
12 OF 14

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

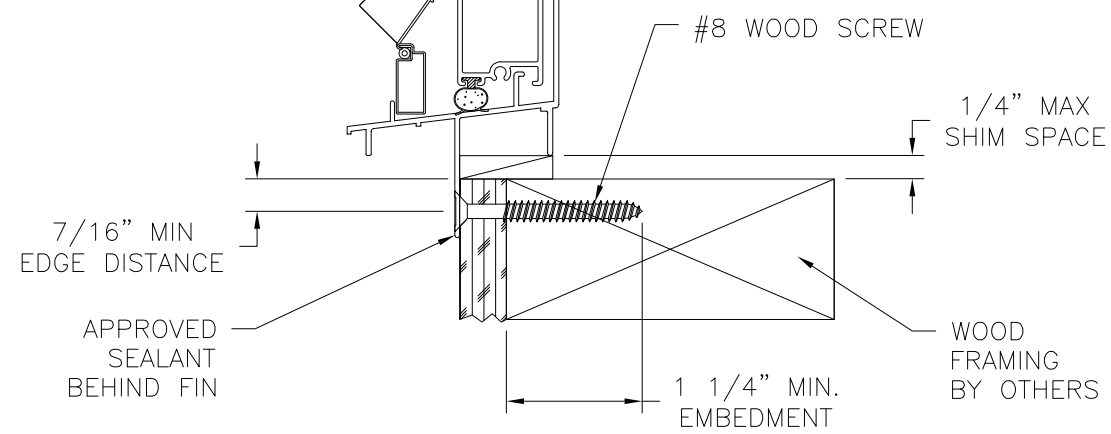
SIGNED: 02/27/2020

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

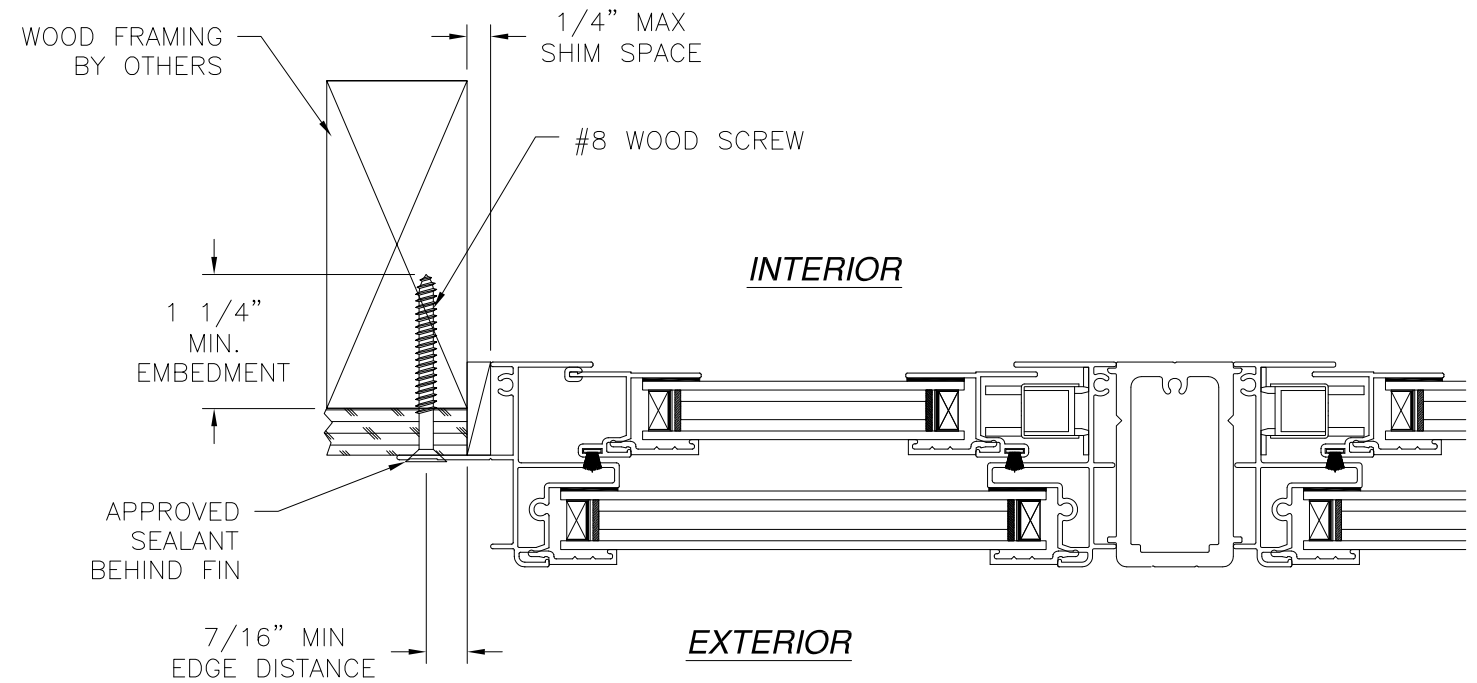


INTERIOR

EXTERIOR



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



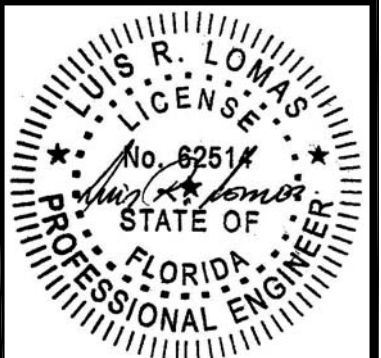
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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

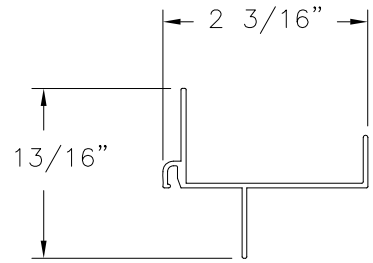
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHOR SPACING & CHARTS	07/11/16	R.L.
B	REVISED GLASS	10/03/17	R.L.

MI WINDOWS AND DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 185 ALUMINUM TRIPLE SINGLE HUNG WINDOW 111" X 72" NON-IMPACT FIN INSTALLATION DETAILS		
DRAWN: N.G.	DWG NO. 08-02548	REV B
SCALE NTS	DATE 01/05/15	SHEET 13 OF 14
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

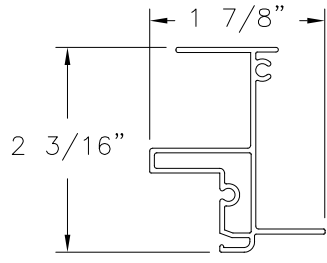
SIGNED: 02/27/2020



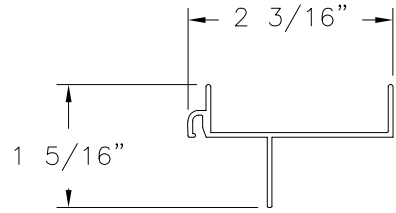
Luis R. Lomas P.E.
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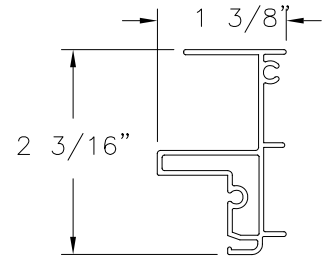
FLANGE FRAME HEAD
CM-18501
ALUMINUM 6063-T5 .050" THICK



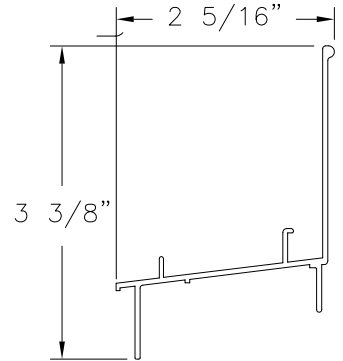
FLANGE FRAME JAMB
CM-18503
ALUMINUM 6063-T5 .050" THICK



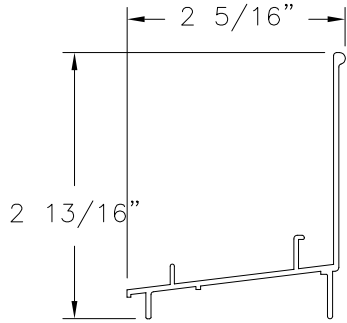
FINLESS FRAME HEAD
CM-18553
ALUMINUM 6063-T5 .050" THICK



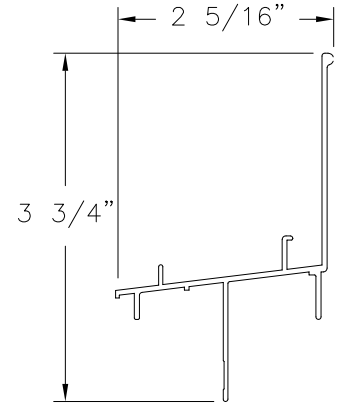
FINLESS FRAME JAMB
CM-18513
ALUMINUM 6063-T5 .050" THICK



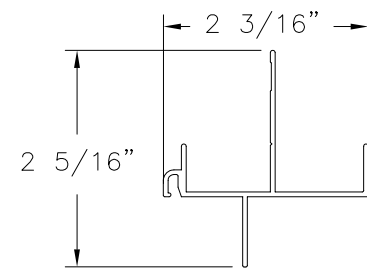
FLANGE FRAME SILL
CM-18502
ALUMINUM 6063-T5 .055" THICK



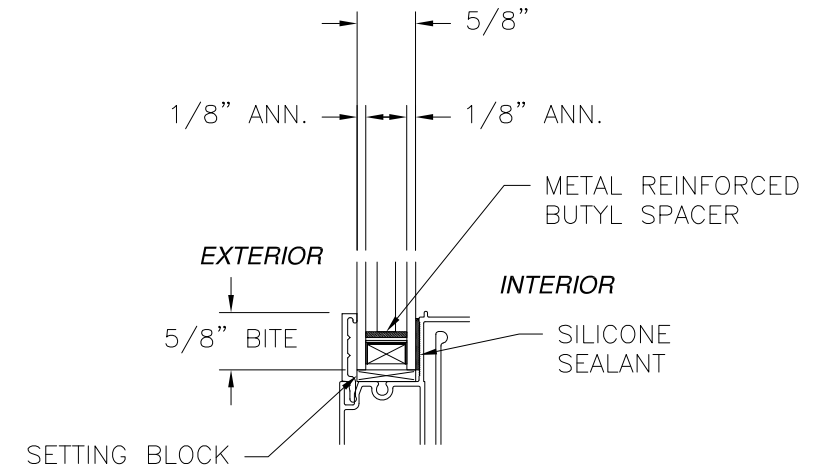
FINLESS FRAME SILL
CM-18554
ALUMINUM 6063-T5 .055" THICK



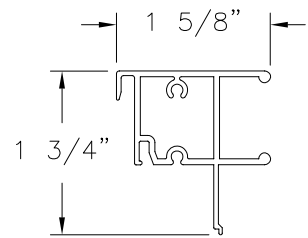
FIN FRAME SILL
CM-18509
ALUMINUM 6063-T5 .055" THICK



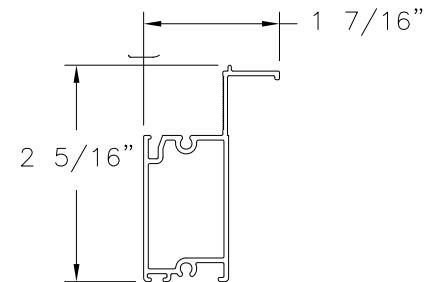
FIN FRAME HEAD
CM-18508
ALUMINUM 6063-T5 .050" THICK



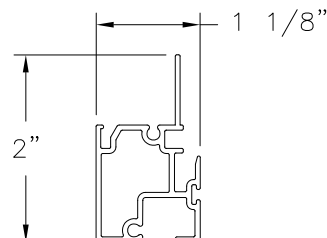
GLAZING DETAIL



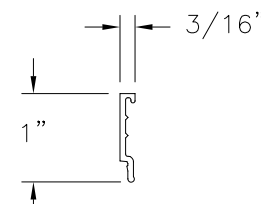
LOCK RAIL/STILE
CM-18505
ALUMINUM 6063-T5 .062" THICK



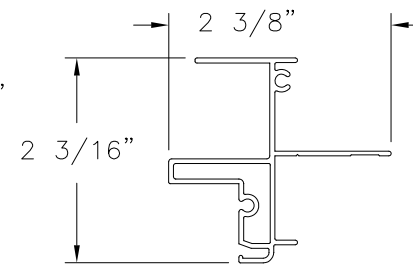
SASH BOTTOM RAIL
CM-18555
ALUMINUM 6063-T5 .050" THICK



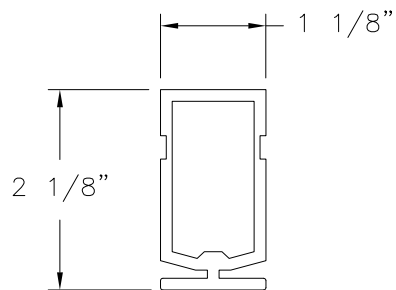
MEETING RAIL
CM-18504
ALUMINUM 6063-T5 .055" THICK



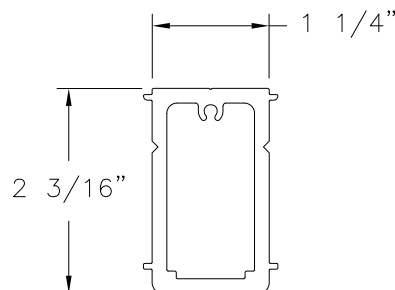
GLAZING BEAD
V-663
RIGID PVC .060" THICK



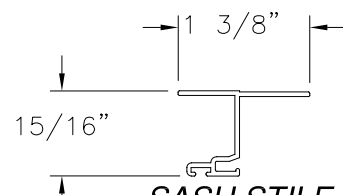
FIN FRAME JAMB
CM-18510
ALUMINUM 6063-T5 .050" THICK



VERTICAL MULLION
SECT5764
ALUMINUM 6063-T5 .125" THICK



VERTICAL MULLION
CM-18514
ALUMINUM 6005-T5 .156" THICK



SASH STILE
CM-18507
ALUMINUM 6063-T5 .050" THICK

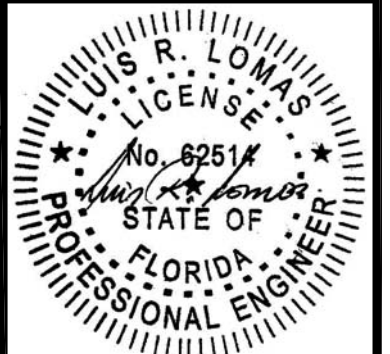
MI WINDOWS AND DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370

SERIES 185 ALUMINUM TRIPLE SINGLE HUNG WINDOW
111" X 72" NON-IMPACT
COMPONENTS

DRAWN: N.G.	DWG NO. 08-02548	REV B
SCALE NTS	DATE 01/05/15	SHEET 14 OF 14

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