

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED INSTALLATION DETAILS	06/01/15	R.L.
B	REVISED NAME AND ADDRESS	10/27/16	R.L.
C	ADDED METAL FIN INSTALLATION	10/25/18	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.
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 #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 #6 TEK SCREW 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 #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.
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 1/2” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
18. 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.
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 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
21. GEOMETRIC SHAPES ARE ALSO APPROVED. APPROVED GEOMETRIC SHAPES DIMENSIONS SHALL NOT EXCEED INSCRIBED DIMENSIONS OF APPROVED RECTANGULAR ASSEMBLY SHOWN IN SHEET 2.

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SHEET NO.	DESCRIPTION
1	NOTES
2 – 3	ELEVATIONS, CHARTS AND GLAZING DETAILS
4 – 13	INSTALLATION DETAILS

MI WINDOWS AND DOORS, LLC

650 W. MARKET ST.
GRATZ, PA 17030

SERIES 185 ALUMINUM FIXED WINDOW
73” X 72” NON-IMPACT
NOTES

DRAWN:
J.L.

DWG NO.
08-02357

REV
C

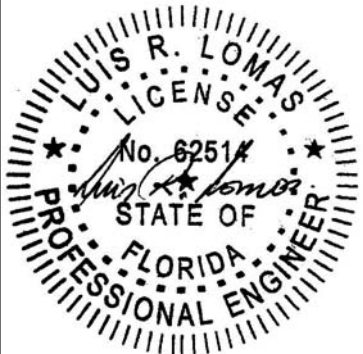
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DATE 09/03/14

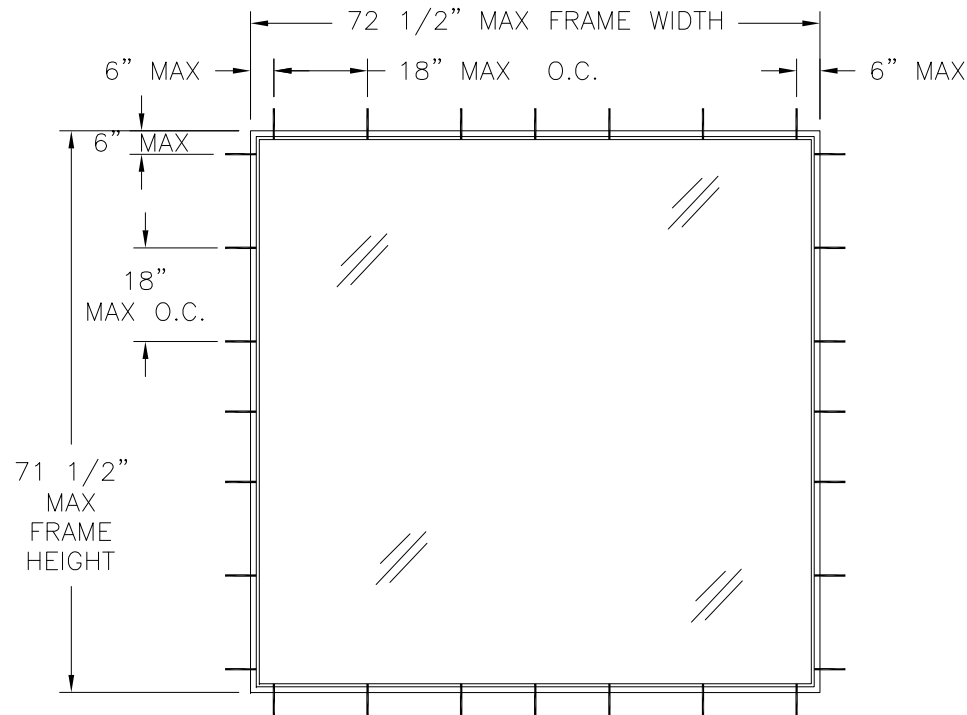
SHEET 1 OF 13

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

SIGNED: 10/25/2018

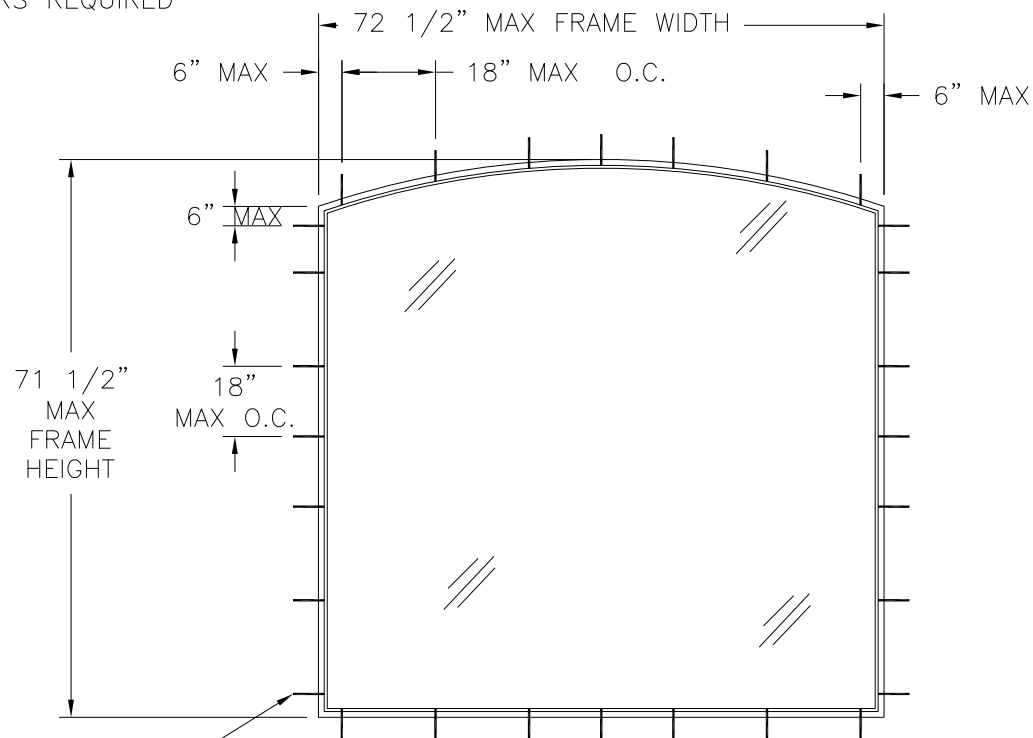


Luis R. Lomas P.E.
FL No.: 62514



REFER TO CHARTS
#1 & #2
FOR NUMBER OF
ANCHORS REQUIRED

SERIES 185 ALUMINUM FIXED WINDOW
EXTERIOR VIEW



REFER TO CHARTS
#1 & #2
FOR NUMBER OF
ANCHORS REQUIRED

SERIES 185 ALUMINUM FIXED DESIGNER WINDOW
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±60.0PSF	NONE

NOTES:
1. MAXIMUM D.L.O.: 69 3/4" X 68 3/4"

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CHART #1

Number of anchors required (without rigid fillers)																		
Frame Height (in)	Frame width (in)																	
	24.00		30.00		36.00		42.00		48.00		54.00		60.00		66.00		72.50	
	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	2	2	2	2	3	2	3	2	3	2	4	2	4	2	4	2	5	2
30.00	2	2	2	2	3	2	3	2	3	2	4	2	4	2	4	2	5	2
36.00	2	3	2	3	3	3	3	3	3	3	4	3	4	3	5	3	5	3
42.00	2	3	2	3	3	3	3	3	3	3	4	3	5	3	5	3	6	3
48.00	2	3	2	3	3	3	3	3	3	3	4	3	5	3	6	3	6	3
54.00	2	4	2	4	3	4	3	4	3	4	4	4	5	4	6	4	7	4
60.00	2	4	2	4	3	4	3	5	3	5	4	5	5	5	6	5	7	5
66.00	2	4	2	4	3	5	3	5	3	6	4	6	5	6	6	6	7	6
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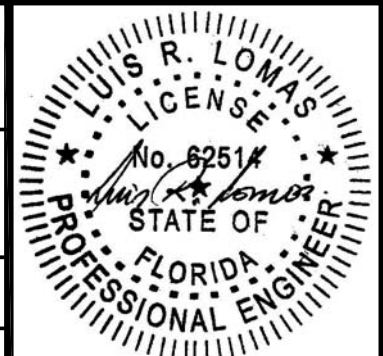
CHART #2

Number of anchors required (with rigid fillers)																		
Frame Height (in)	Frame width (in)																	
	24.00		30.00		36.00		42.00		48.00		54.00		60.00		66.00		72.50	
	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	2	2	2	2	3	2	3	2	3	2	4	2	4	2	4	2	5	2
30.00	2	2	2	2	3	2	3	2	3	2	4	2	4	2	4	2	5	2
36.00	2	3	2	3	3	3	3	3	3	3	4	3	4	3	4	3	5	3
42.00	2	3	2	3	3	3	3	3	3	3	4	3	4	3	4	3	5	3
48.00	2	3	2	3	3	3	3	3	3	3	4	3	4	3	4	3	5	3
54.00	2	4	2	4	3	4	3	4	3	4	4	4	4	4	4	4	5	4
60.00	2	4	2	4	3	4	3	4	3	4	4	4	4	4	4	4	5	4
66.00	2	4	2	4	3	4	3	4	3	4	4	4	4	4	4	4	5	4
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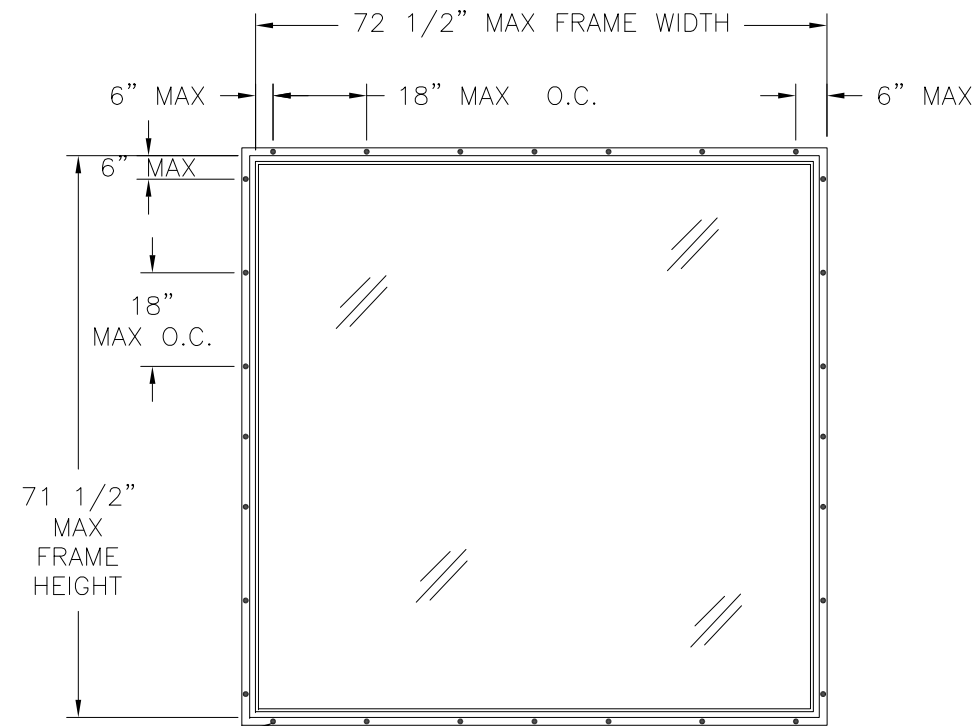
SEE SHEETS 4-7 FOR INSTALLATION DETAILS

SIGNED: 10/25/2018

MI WINDOWS AND DOORS, LLC 650 W. MARKET ST. GRATZ, PA 17030		
SERIES 185 ALUMINUM FIXED WINDOW 73" X 72" NON-IMPACT FLANGE & FINLESS ELEVATION & CHARTS		
DRAWN: J.L.	DWG NO. 08-02357	REV C
SCALE NTS	DATE 09/03/14	SHEET 2 OF 13
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

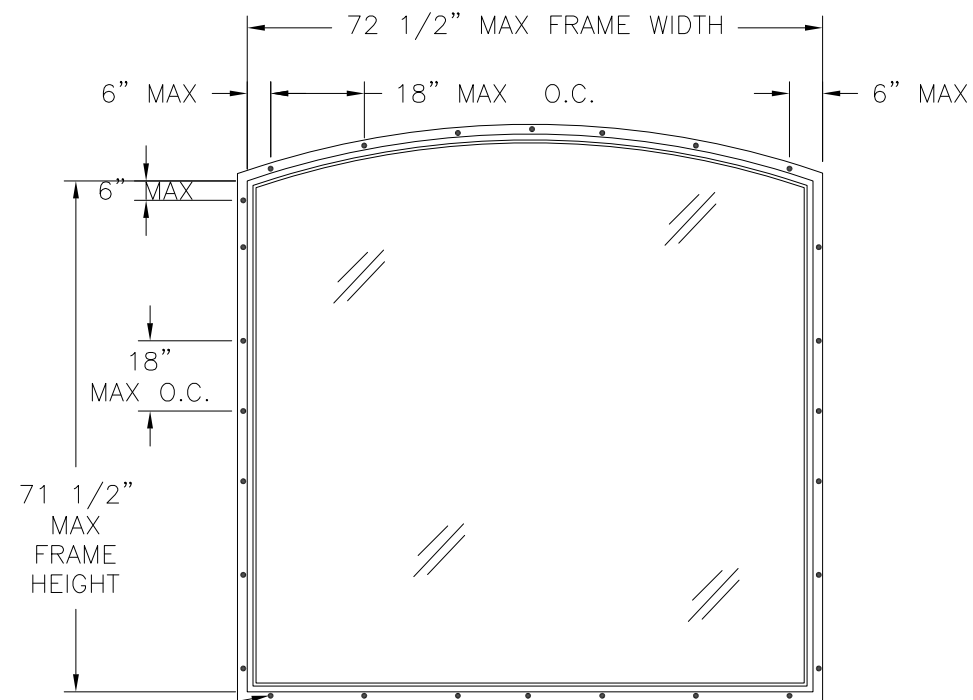


Luis R. Lomas P.E.
FL No.: 62514



SERIES 185 ALUMINUM FIXED WINDOW
EXTERIOR VIEW

REFER TO CHART #3
FOR NUMBER OF
ANCHORS REQUIRED



SERIES 185 ALUMINUM FIXED DESIGNER WINDOW
EXTERIOR VIEW

REFER TO CHART #3
FOR NUMBER OF
ANCHORS REQUIRED

DESIGN PRESSURE RATING	IMPACT RATING
±60.0PSF	NONE

NOTES:

1. MAXIMUM D.L.O.: 69 3/4" X 68 3/4"

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C	ADDED METAL FIN INSTALLATION	10/25/18	R.L.

CHART #3

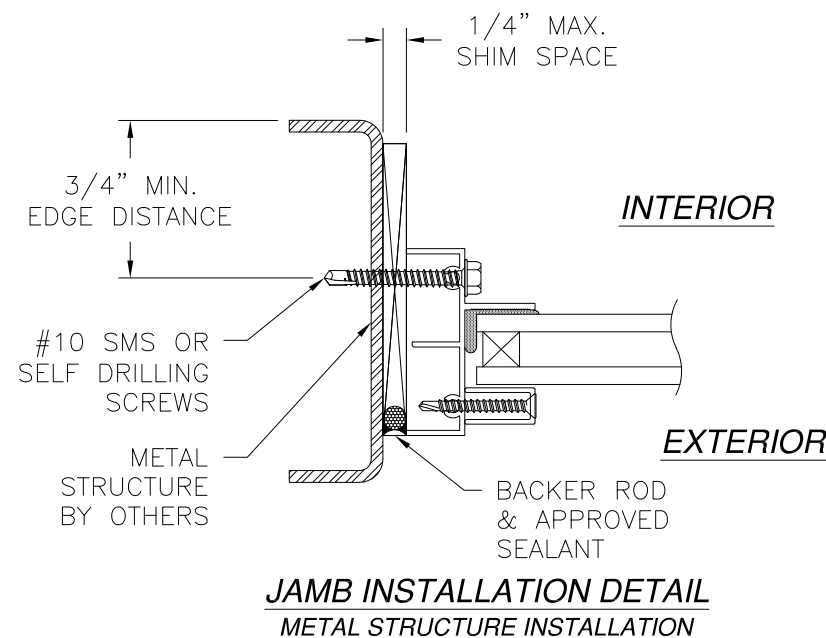
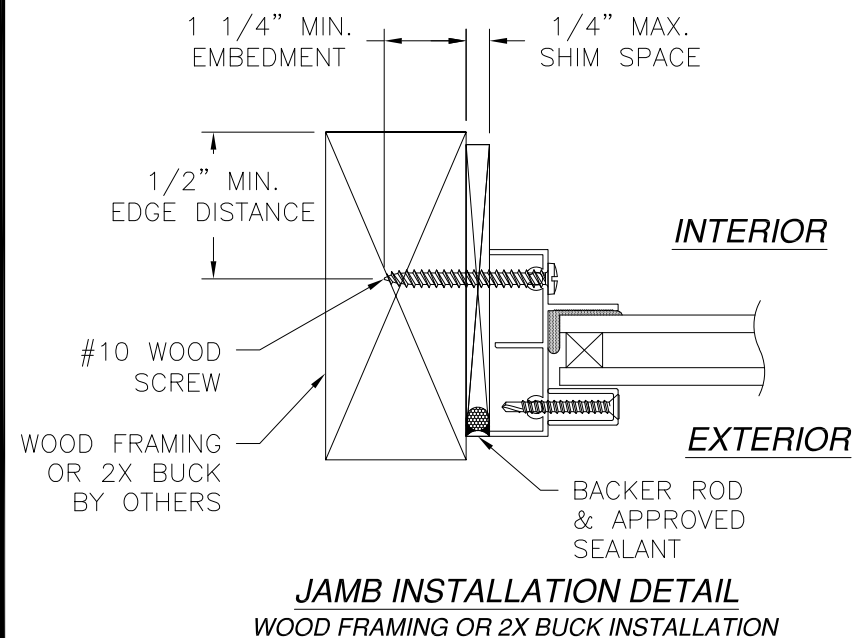
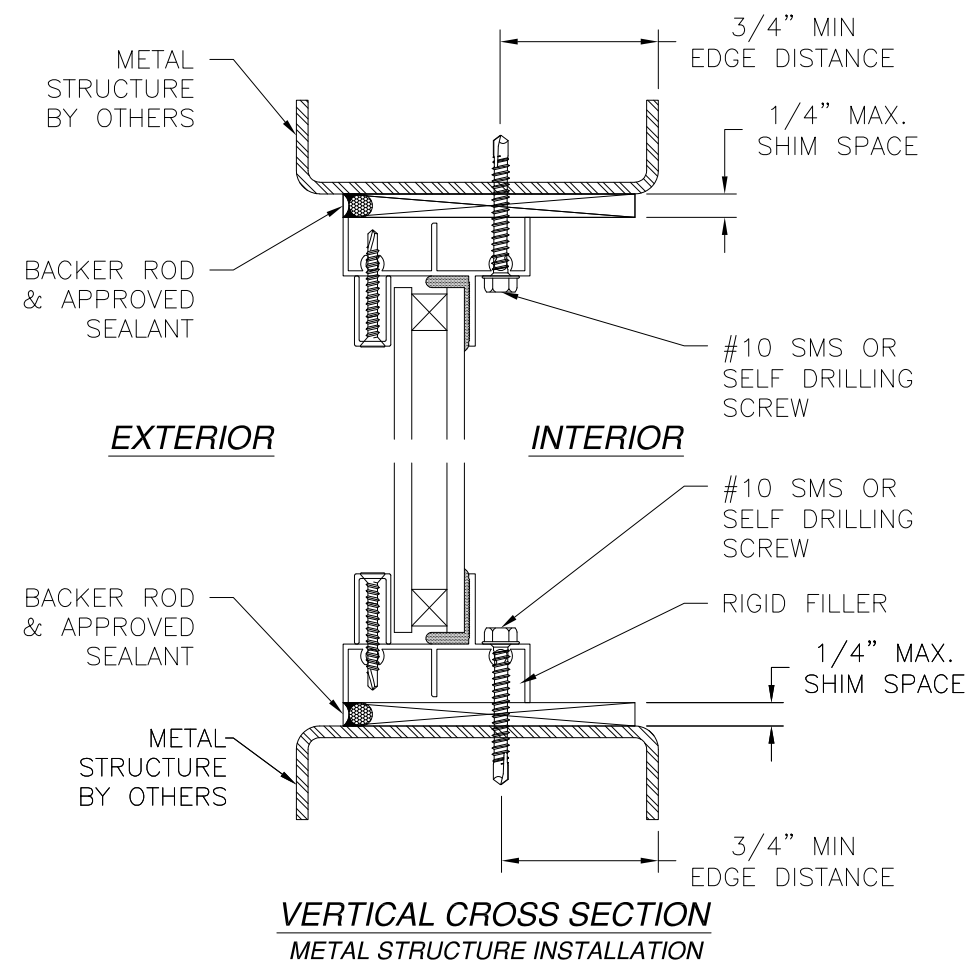
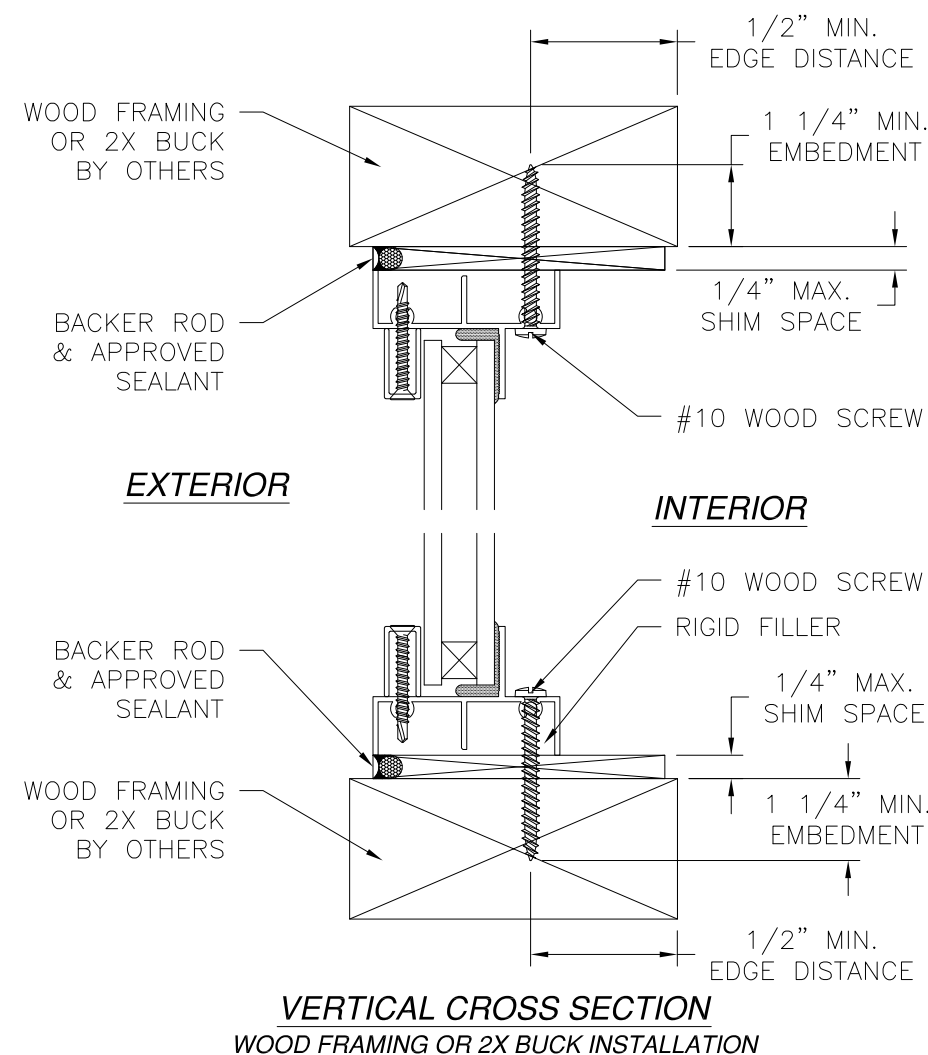
Number of anchors required (fin installation)																		
Frame Height (in)	Frame width (in)																	
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	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb
24.00	3	3	3	3	3	3	4	3	4	3	4	3	5	3	5	3	6	3
30.00	3	3	3	3	3	3	4	3	4	3	4	3	5	3	5	3	6	3
36.00	3	3	3	3	3	3	4	3	4	3	4	3	5	3	5	3	6	3
42.00	3	4	3	4	3	4	4	4	4	4	4	4	5	4	5	4	6	4
48.00	3	4	3	4	3	4	4	4	4	4	4	4	5	4	5	4	6	4
54.00	3	4	3	4	3	4	4	4	4	4	4	4	5	4	5	4	6	4
60.00	3	5	3	5	3	5	4	5	4	5	4	5	5	5	5	5	6	5
66.00	3	5	3	5	3	5	4	5	4	5	4	5	5	5	5	5	6	5
71.50	3	6	3	6	3	6	4	6	4	6	4	6	5	6	5	6	6	6

SEE SHEET 8 FOR INSTALLATION DETAILS

SIGNED: 10/25/2018

MI WINDOWS AND DOORS, LLC 650 W. MARKET ST. GRATZ, PA 17030		
SERIES 185 ALUMINUM FIXED WINDOW 73" X 72" NON-IMPACT FIN ELEVATION & CHART		
DRAWN: J.L.	DWG NO. 08-02357	REV C
SCALE NTS	DATE 09/03/14	SHEET 3 OF 13
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

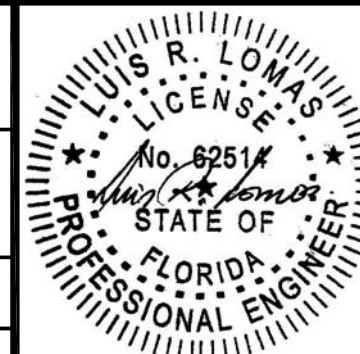


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B	REVISED NAME AND ADDRESS	10/27/16	R.L.
C	ADDED METAL FIN INSTALLATION	10/25/18	R.L.

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

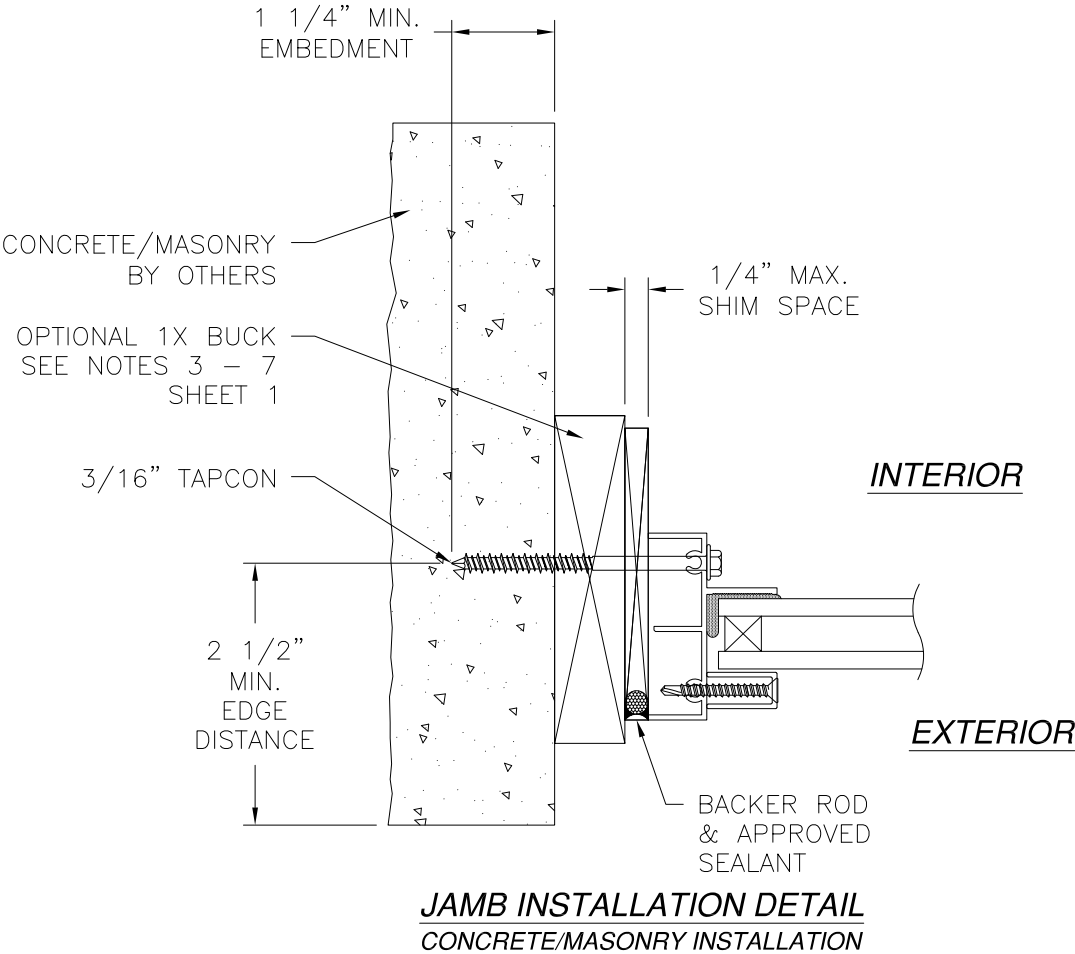
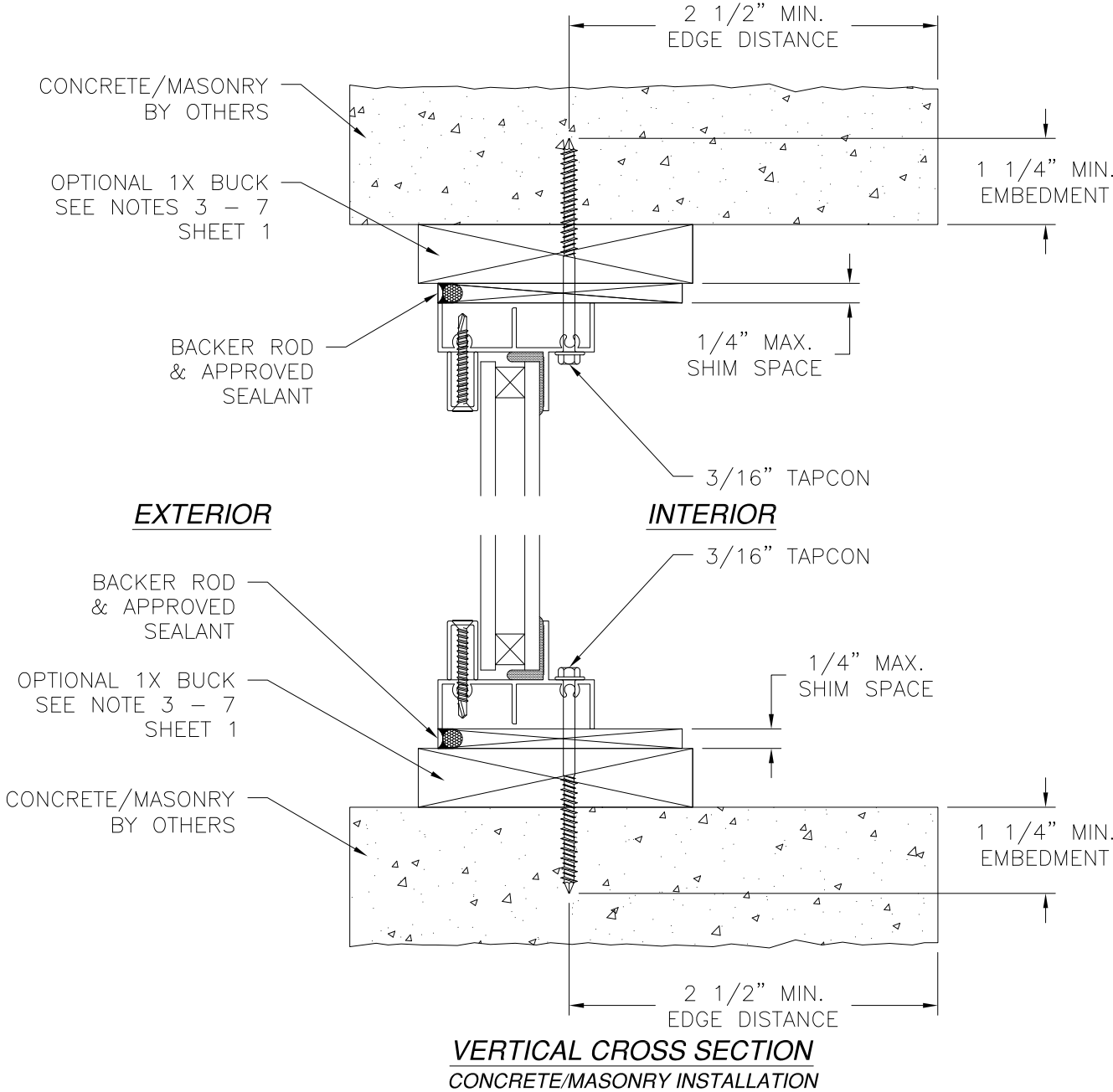
MI WINDOWS AND DOORS, LLC 650 W. MARKET ST. GRATZ, PA 17030		
SERIES 185 ALUMINUM FIXED WINDOW 73" X 72" NON-IMPACT FINLESS INSTALLATION DETAILS WITHOUT FILLERS		
DRAWN: J.L.	DWG NO. 08-02357	REV C
SCALE NTS	DATE 09/03/14	SHEET 4 OF 13
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

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

SERIES 185 ALUMINUM FIXED WINDOW
73" X 72" NON-IMPACT
FINLESS INSTALLATION DETAILS WITHUT FILLERS

DRAWN:
J.L.

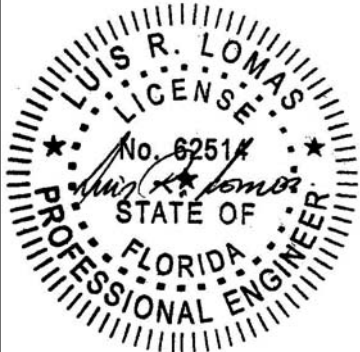
DWG NO.
08-02357

REV
C

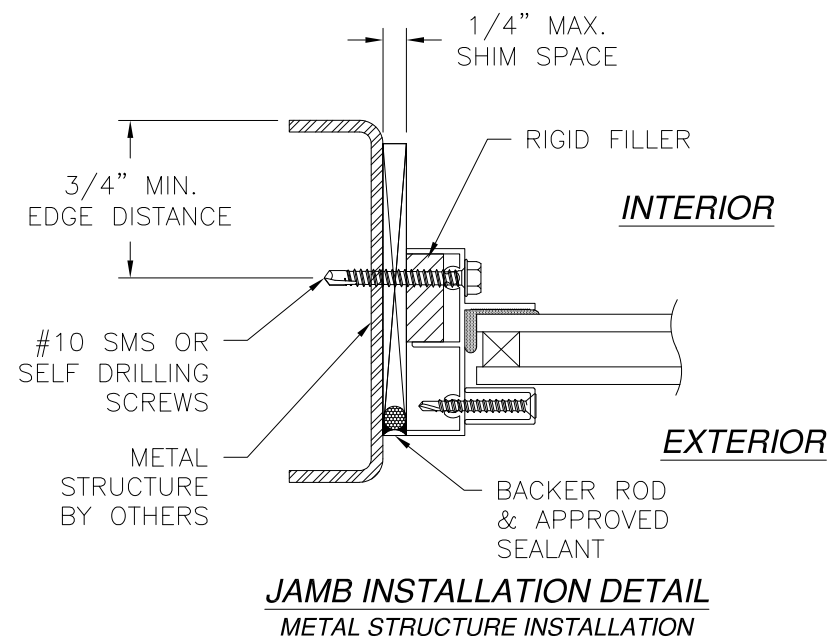
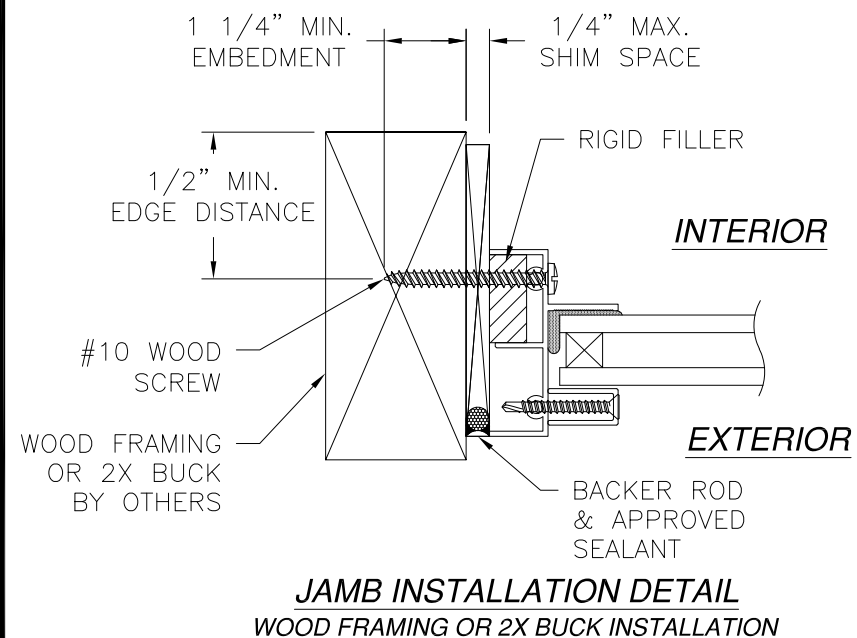
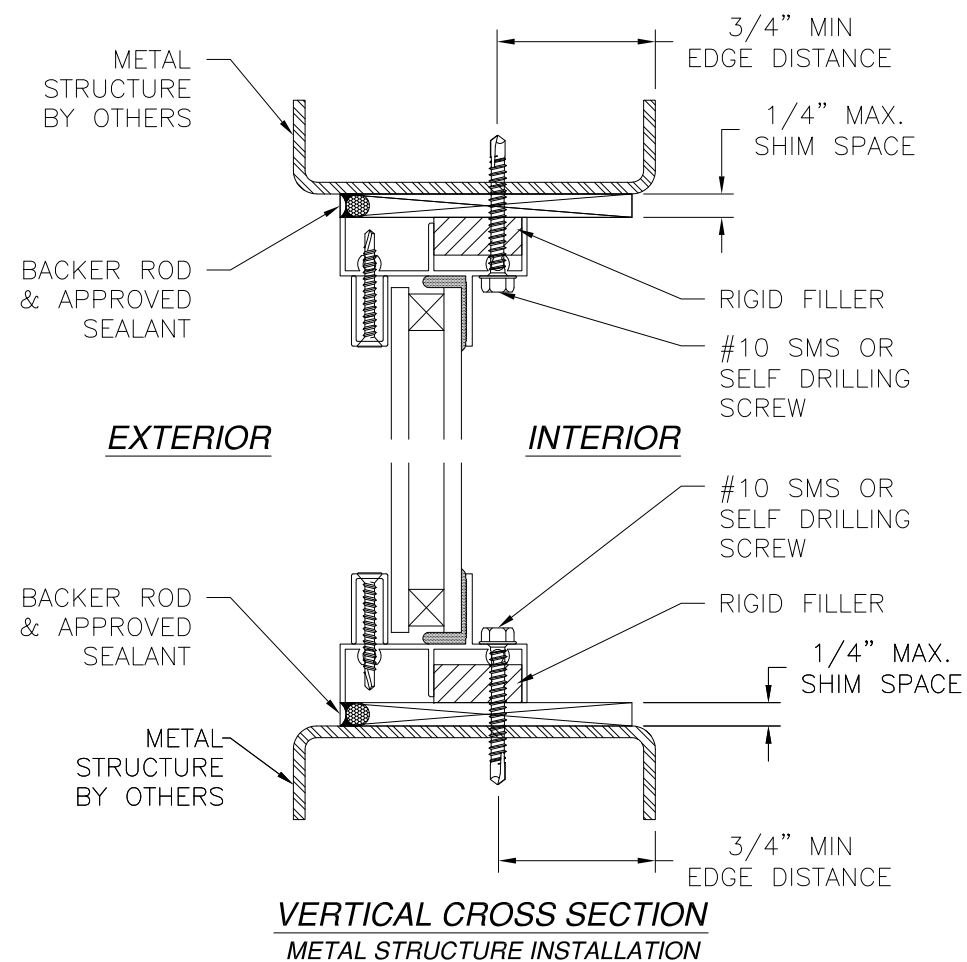
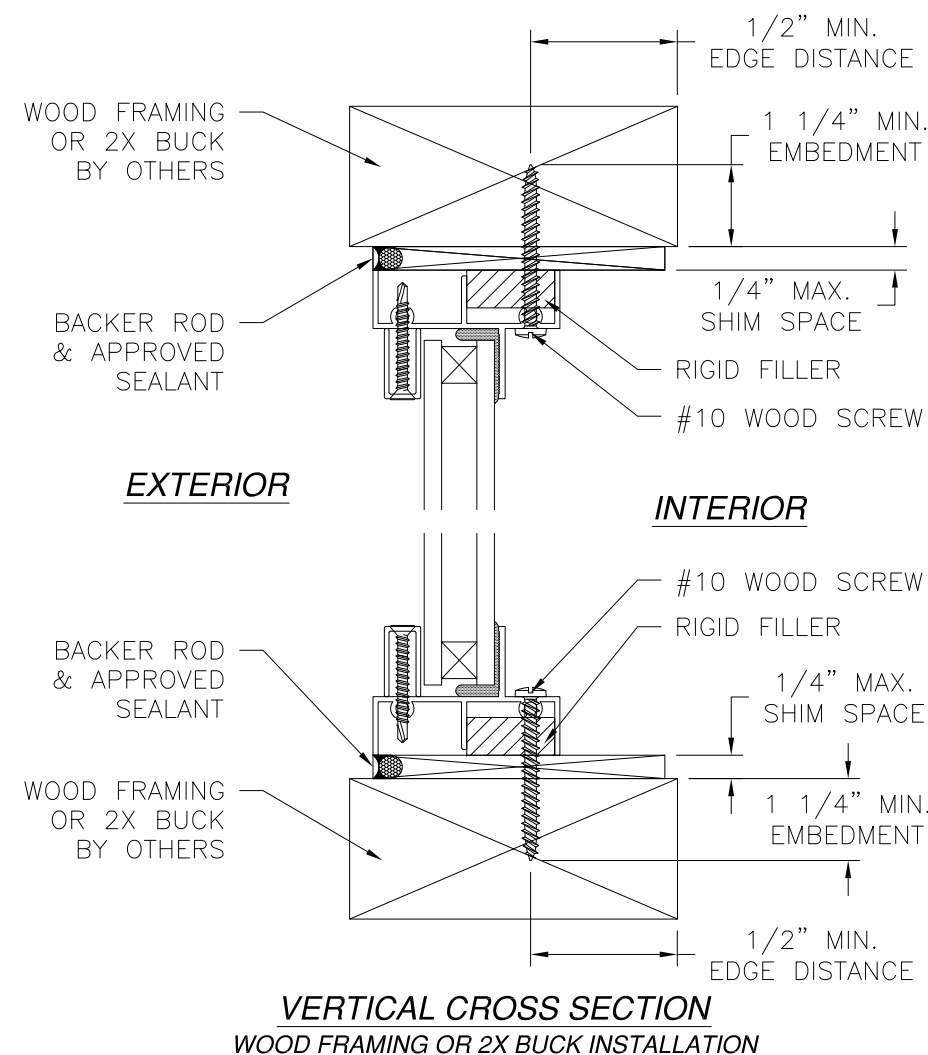
SCALE NTS
DATE 09/03/14
SHEET 5 OF 13

L. ROBERTO LOMAS P.E.
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434-688-0609 rllomas@lrlomaspe.com

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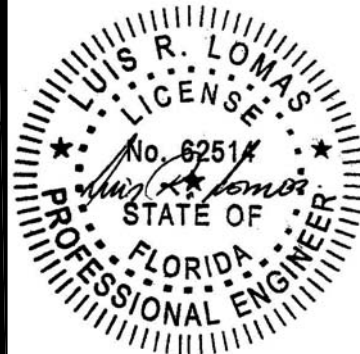
MI WINDOWS AND DOORS, LLC
 650 W. MARKET ST.
 GRATZ, PA 17030

SERIES 185 ALUMINUM FIXED WINDOW
 73" X 72" NON-IMPACT
 FINLESS INSTALLATION DETAILS WITH RIGID FILLERS

DRAWN: J.L.	DWG NO. 08-02357	REV C
SCALE NTS	DATE 09/03/14	SHEET 6 OF 13

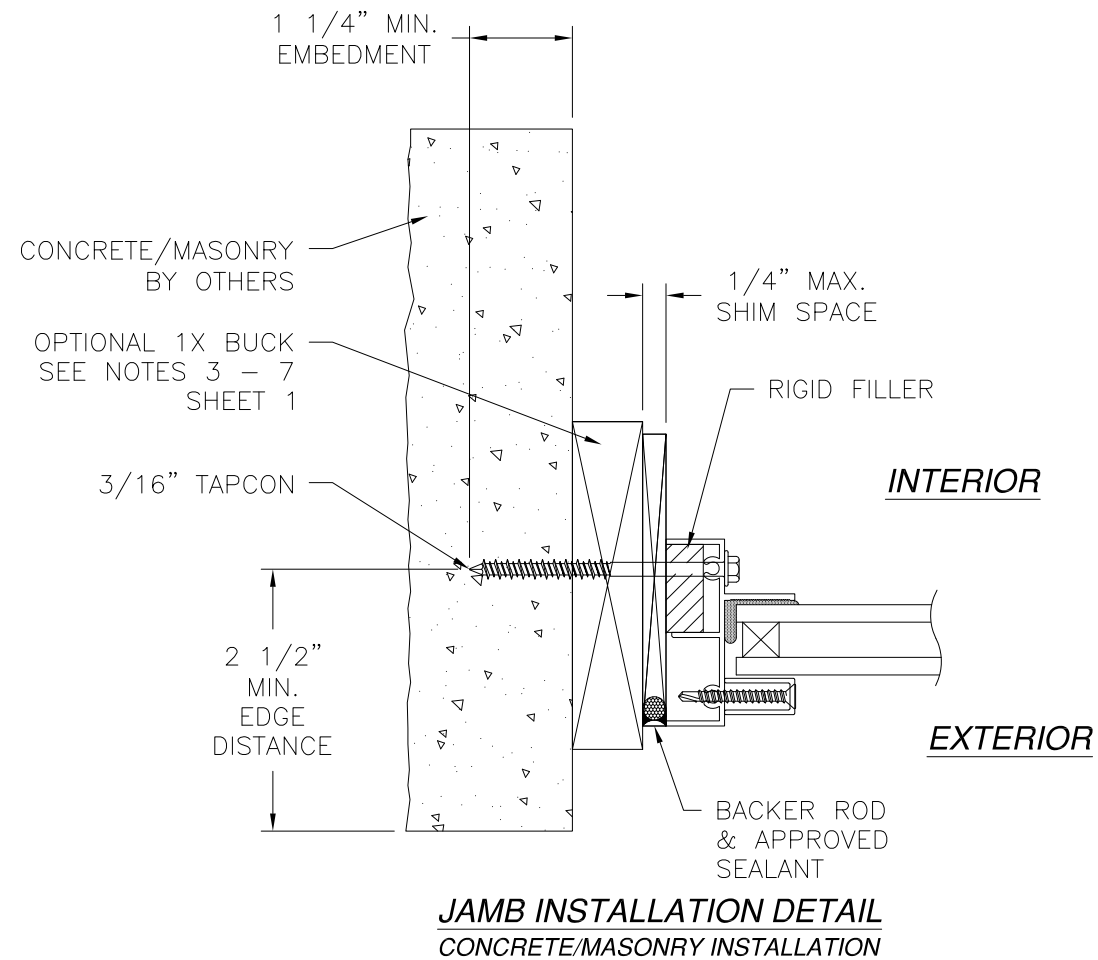
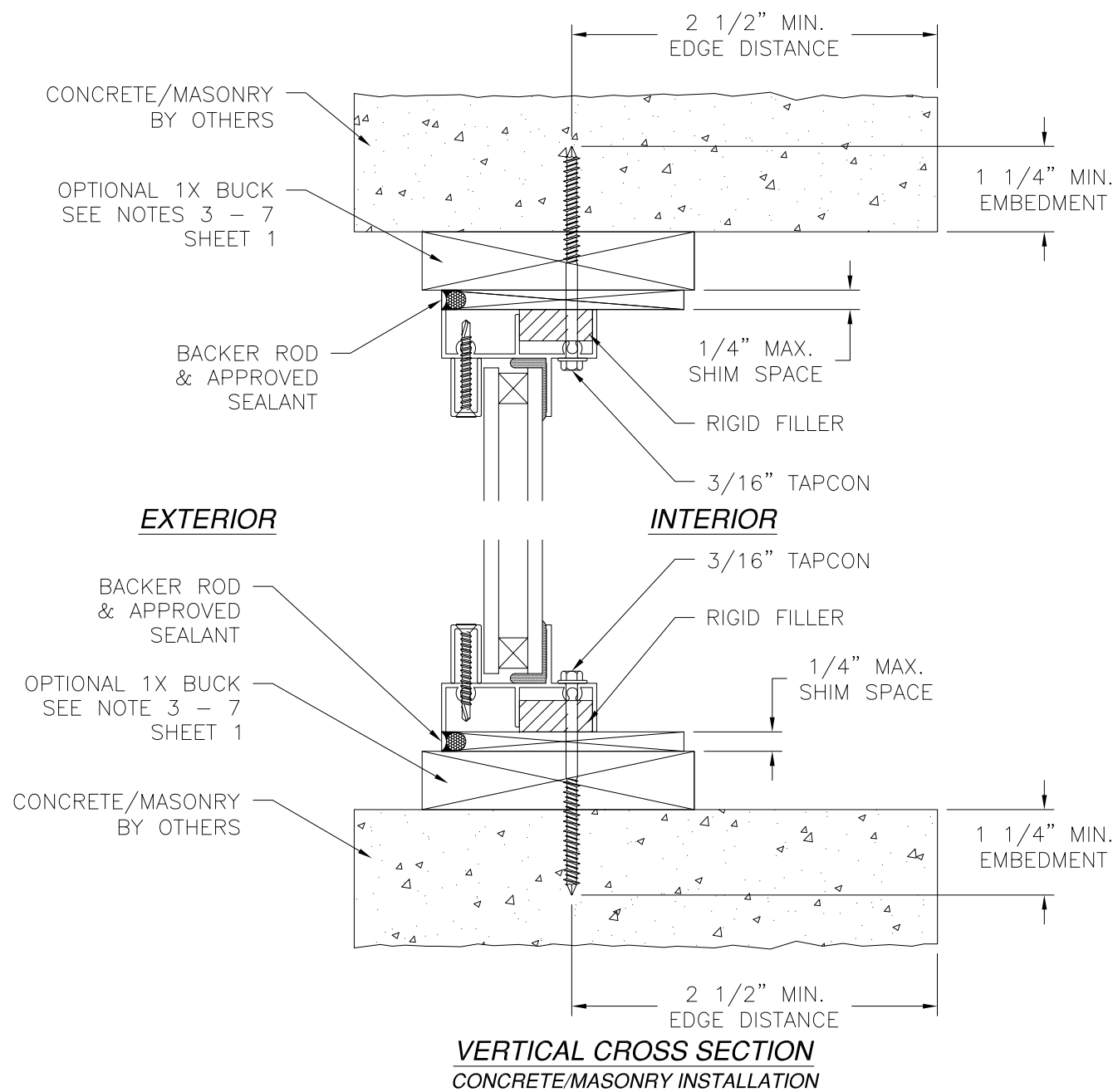
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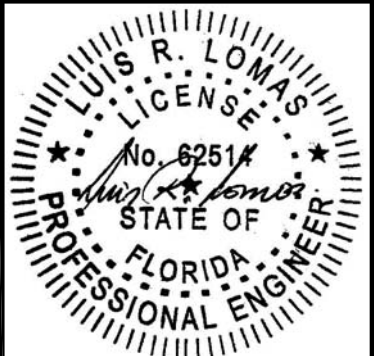
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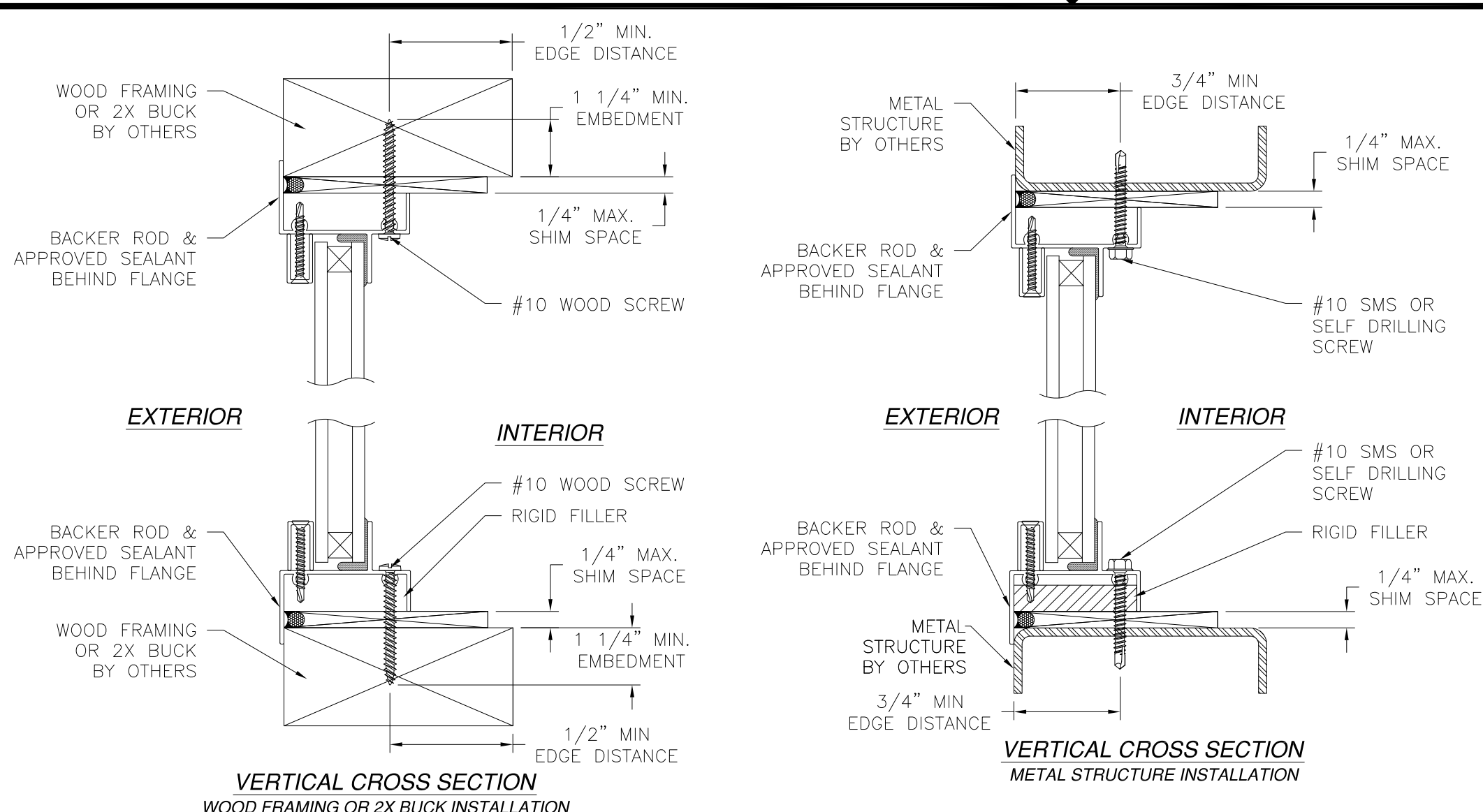
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SIGNED: 10/25/2018

MI WINDOWS AND DOORS, LLC 650 W. MARKET ST. GRATZ, PA 17030		
SERIES 185 ALUMINUM FIXED WINDOW 73" X 72" NON-IMPACT FINLESS INSTALLATION DETAILS WITH RIGID FILLERS		
DRAWN: J.L.	DWG NO. 08-02357	REV C
SCALE NTS	DATE 09/03/14	SHEET 7 OF 13
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

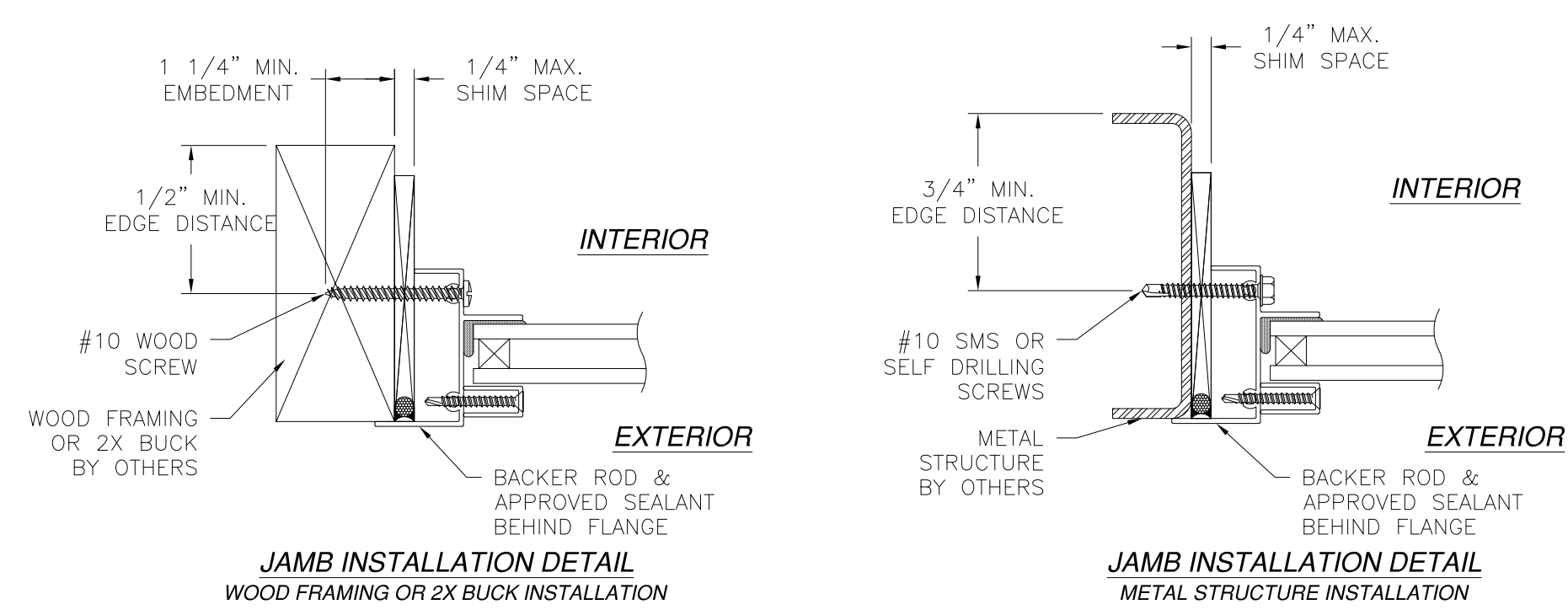


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MI WINDOWS AND DOORS, LLC
650 W. MARKET ST.
GRATZ, PA 17030

SERIES 185 ALUMINUM FIXED WINDOW
73" X 72" NON-IMPACT
FLANGE INSTALLATION DETAILS WITHOUT FILLERS

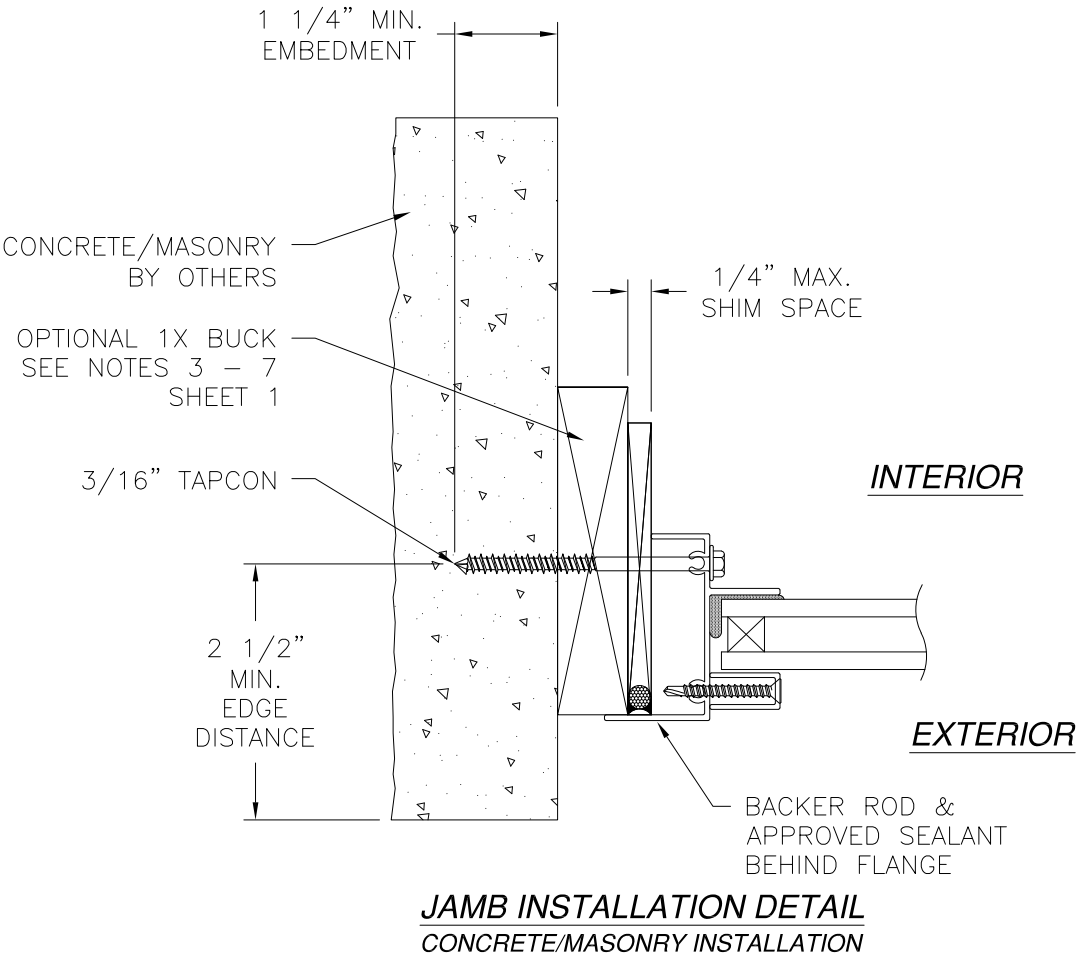
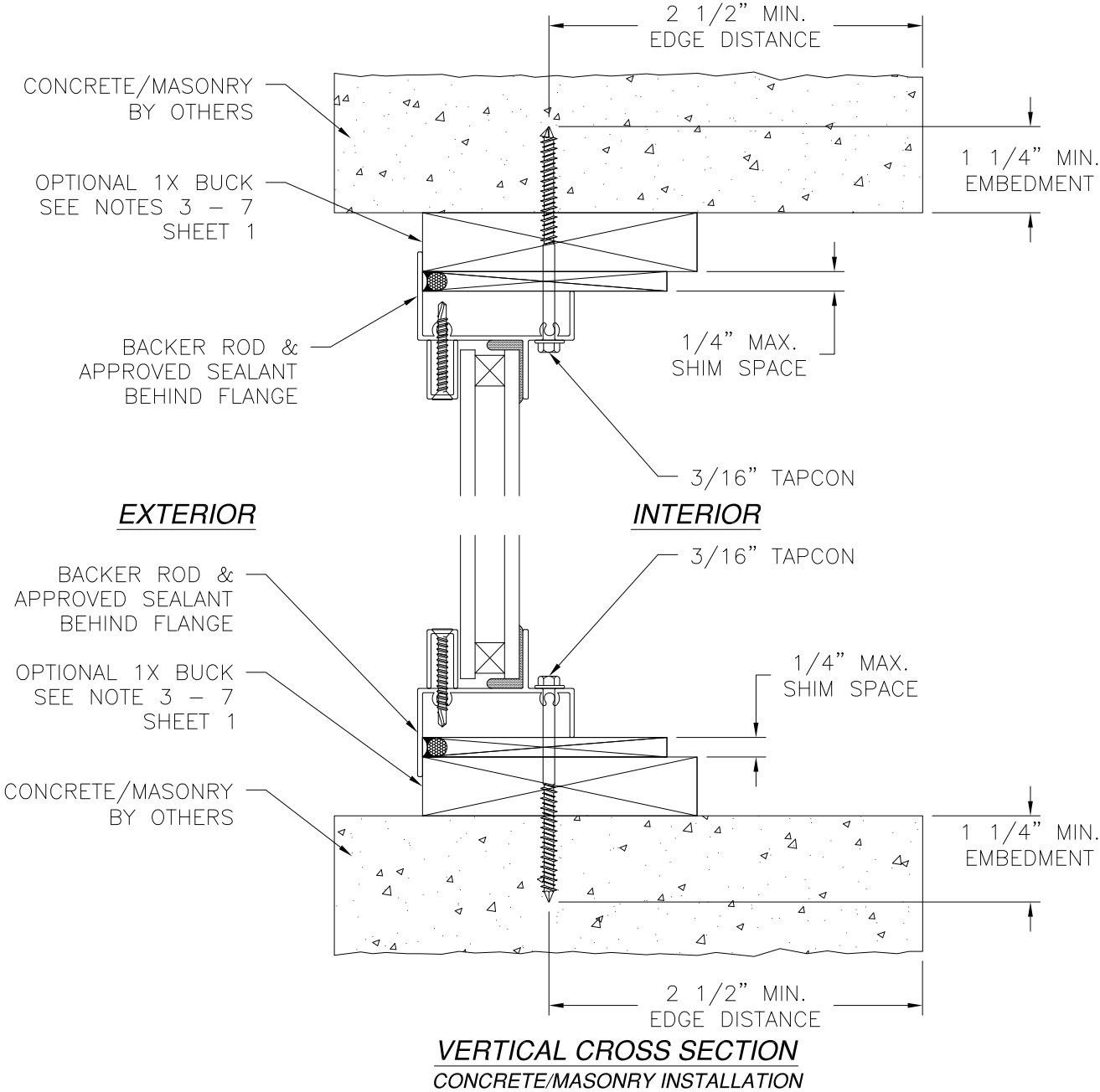
DRAWN: J.L.	DWG NO. 08-02357	REV C
SCALE NTS	DATE 09/03/14	SHEET 8 OF 13

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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

SERIES 185 ALUMINUM FIXED WINDOW
73" X 72" NON-IMPACT
FLANGE INSTALLATION DETAILS WITHOUT FILLERS

DRAWN:
J.L.

DWG NO.
08-02357

REV
C

SCALE
NTS

DATE
09/03/14

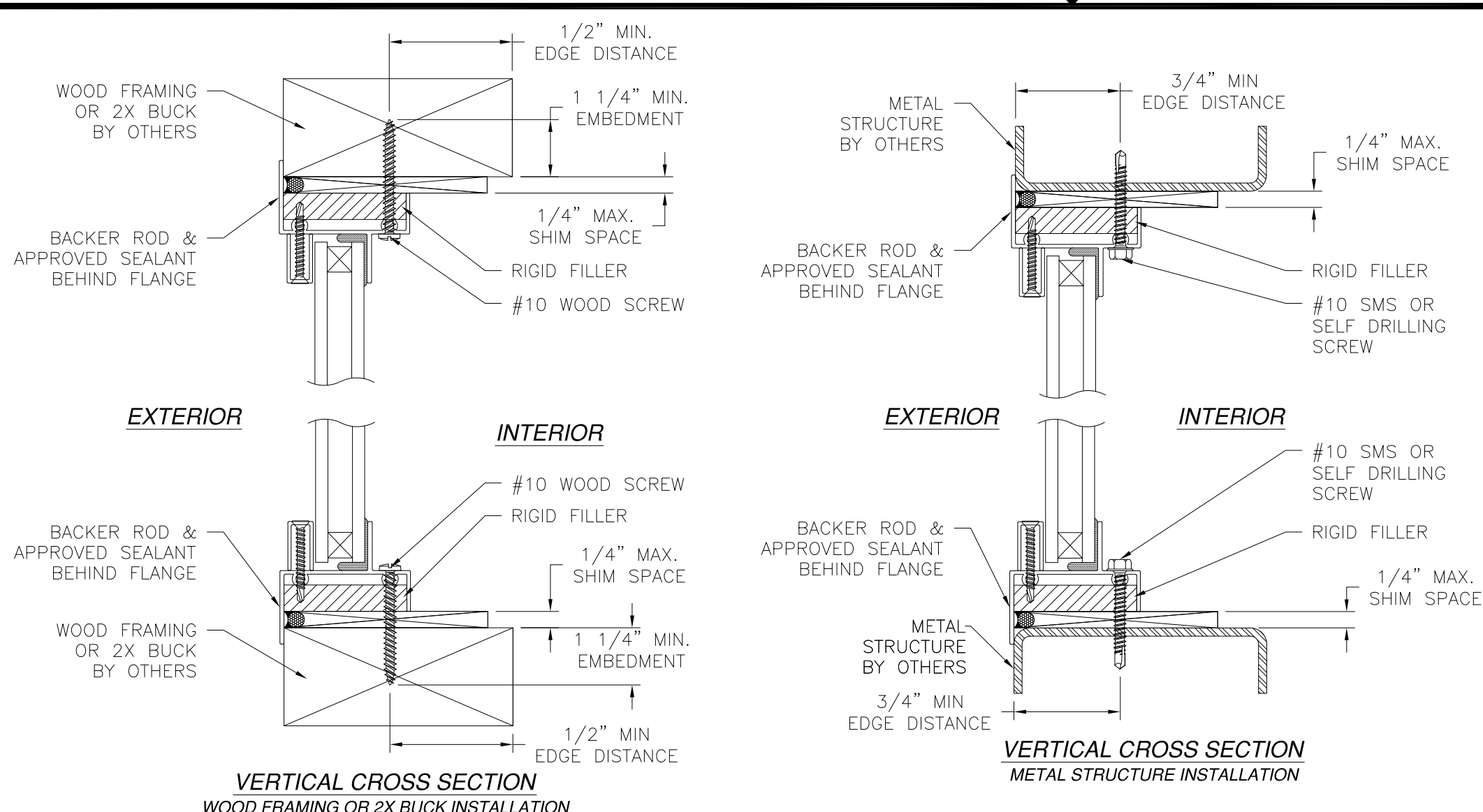
SHEET
9 OF 13

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

SIGNED: 10/25/2018

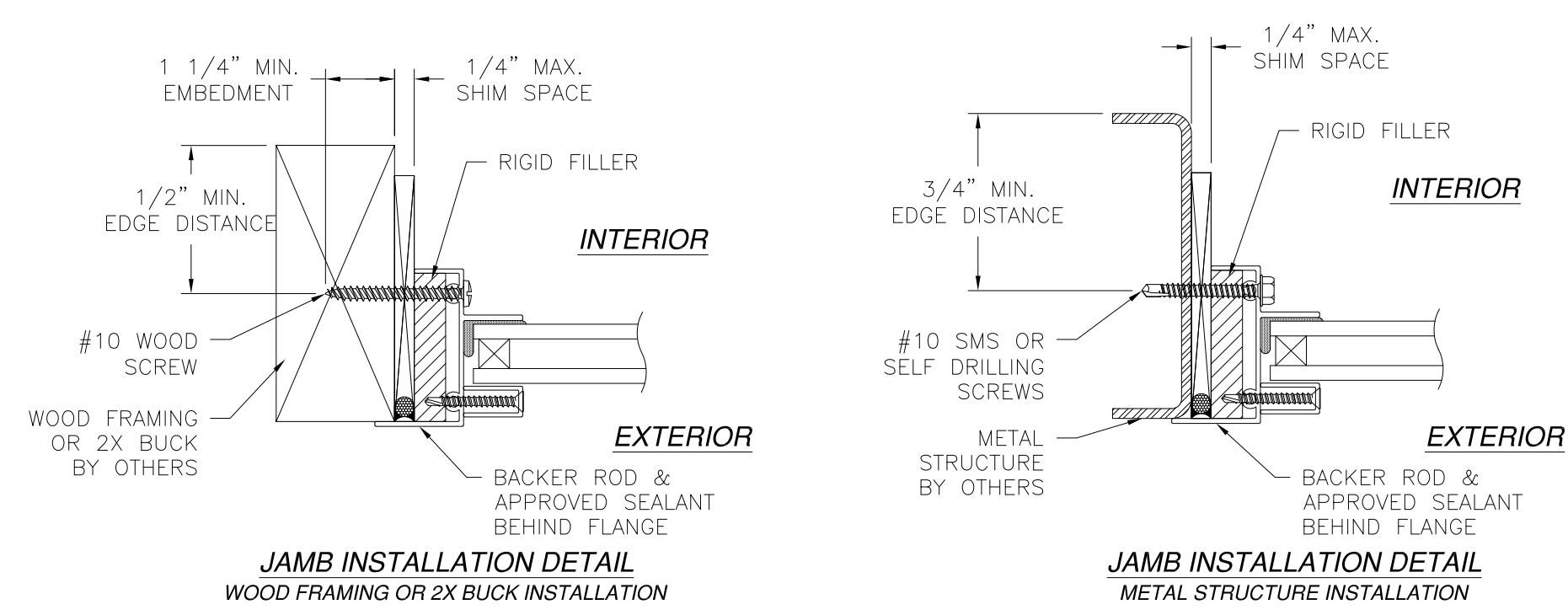


Luis R. Lomas P.E.
 FL No.: 62514



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED INSTALLATION DETAILS	06/01/15	R.L.
B	REVISED NAME AND ADDRESS	10/27/16	R.L.
C	ADDED METAL FIN INSTALLATION	10/25/18	R.L.

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73" X 72" NON-IMPACT
FLANGE INSTALLATION DETAILS WITH RIGID FILLERS

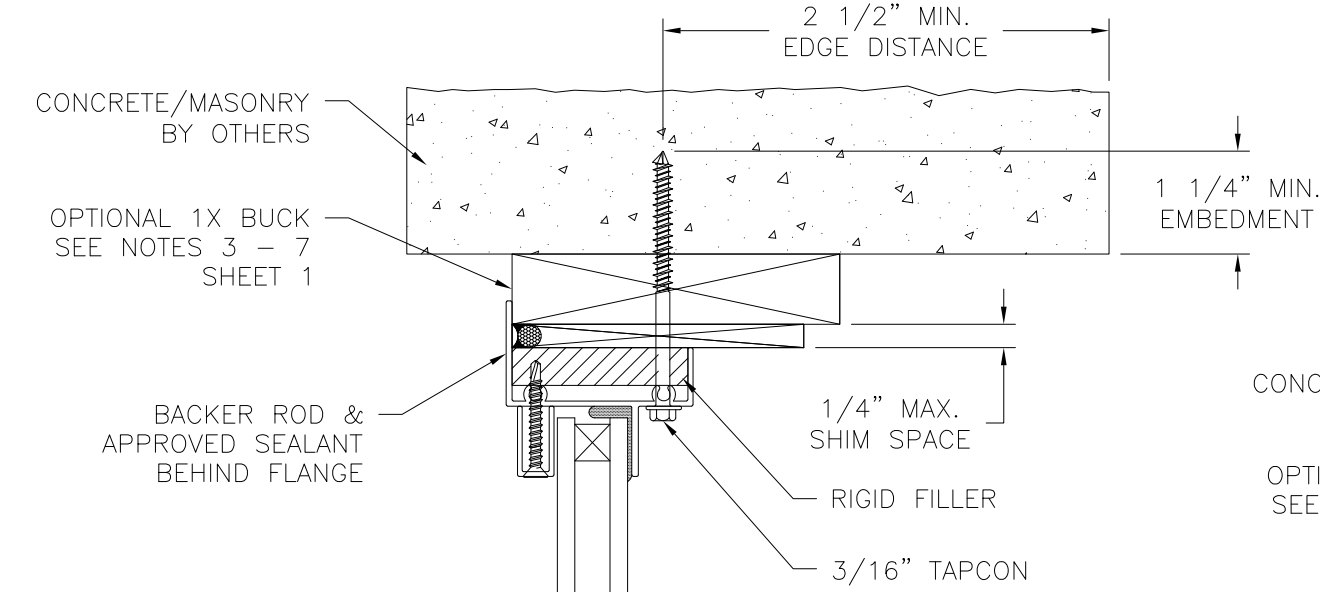
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SCALE NTS	DATE 09/03/14	SHEET 10 OF 13

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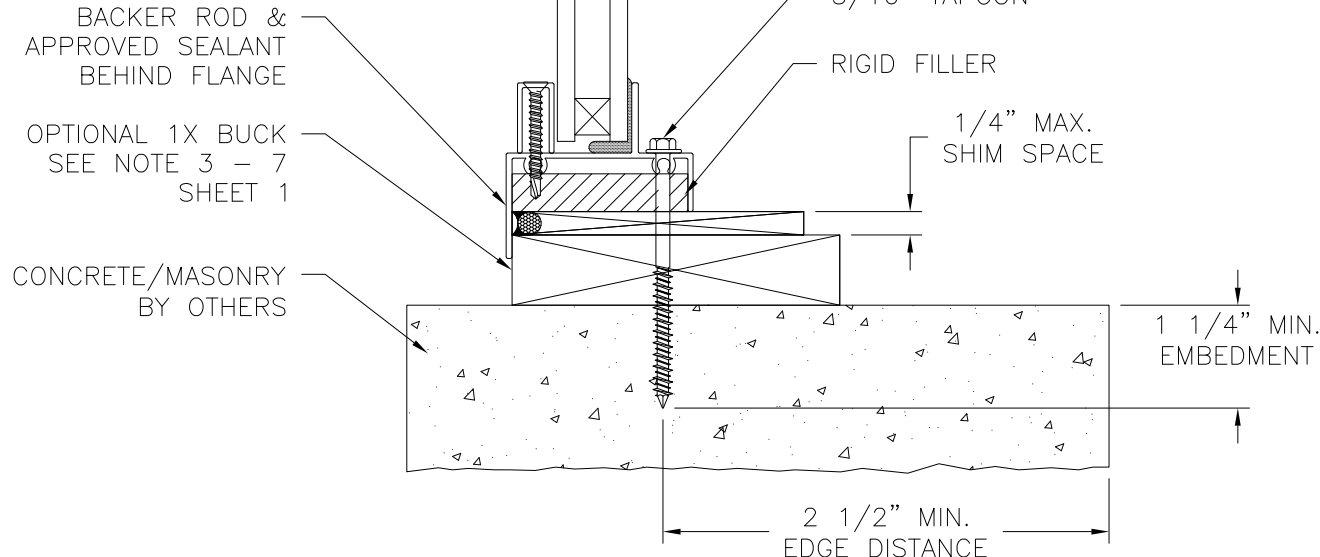
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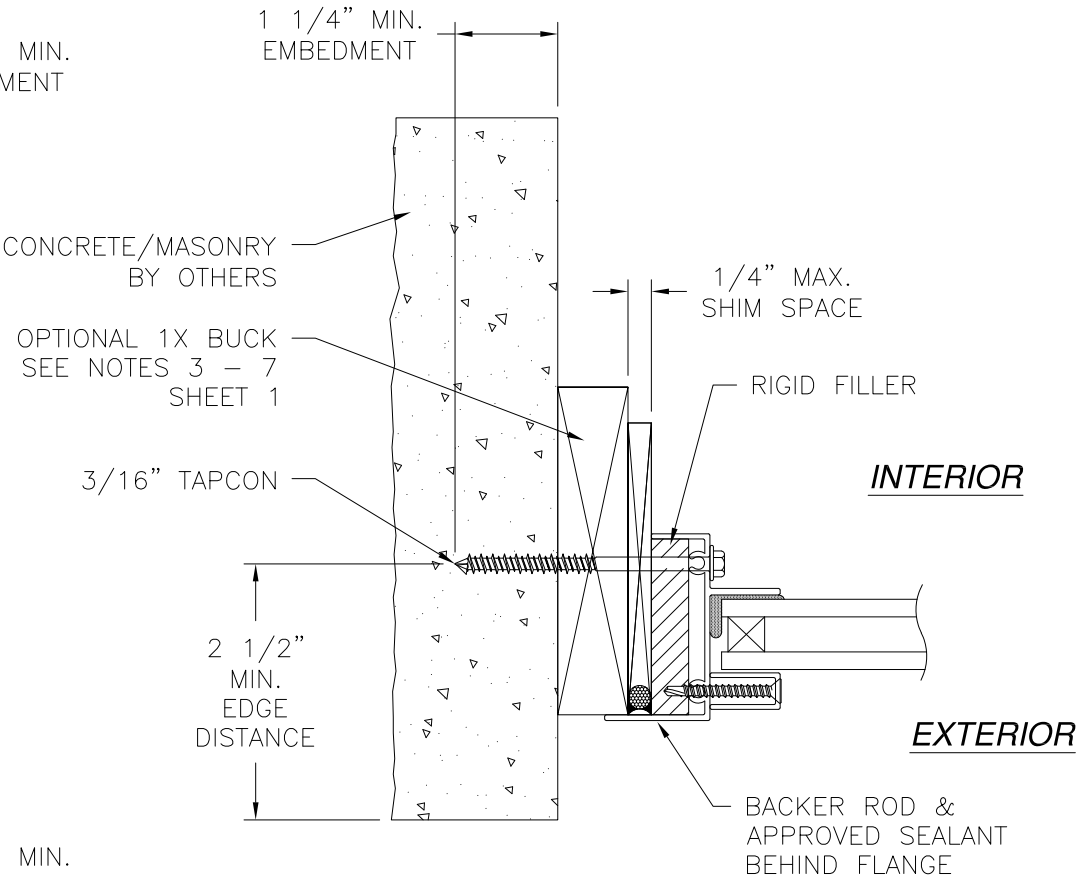


EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



INTERIOR

EXTERIOR

JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

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REV C

SCALE NTS

DATE 09/03/14

SHEET 11 OF 13

L. ROBERTO LOMAS P.E.

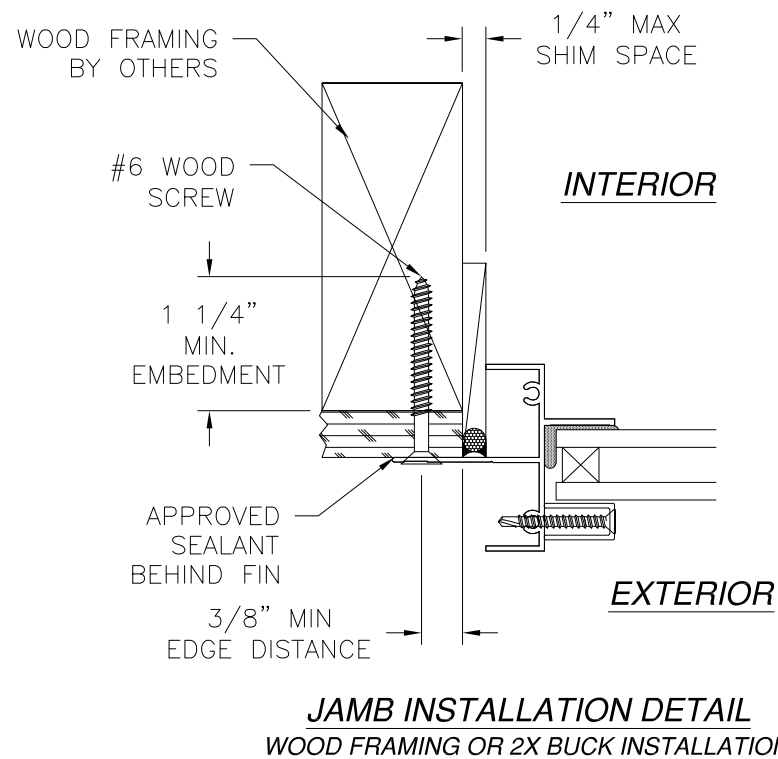
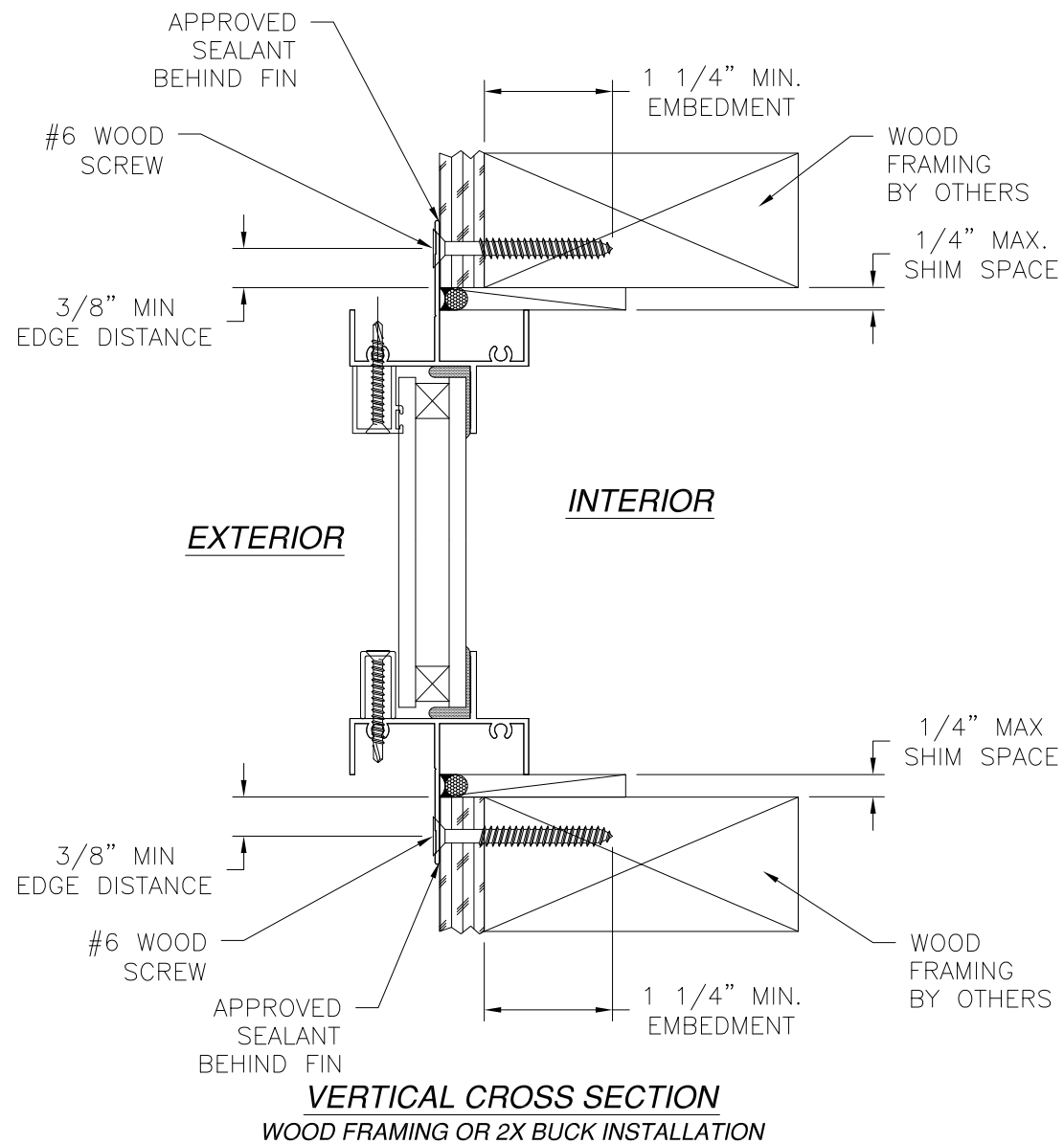
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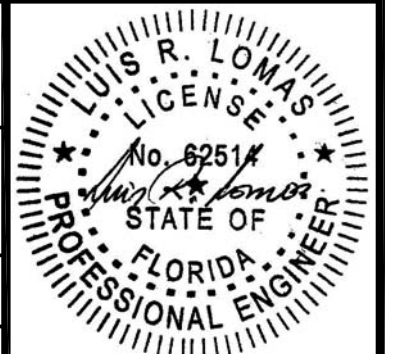


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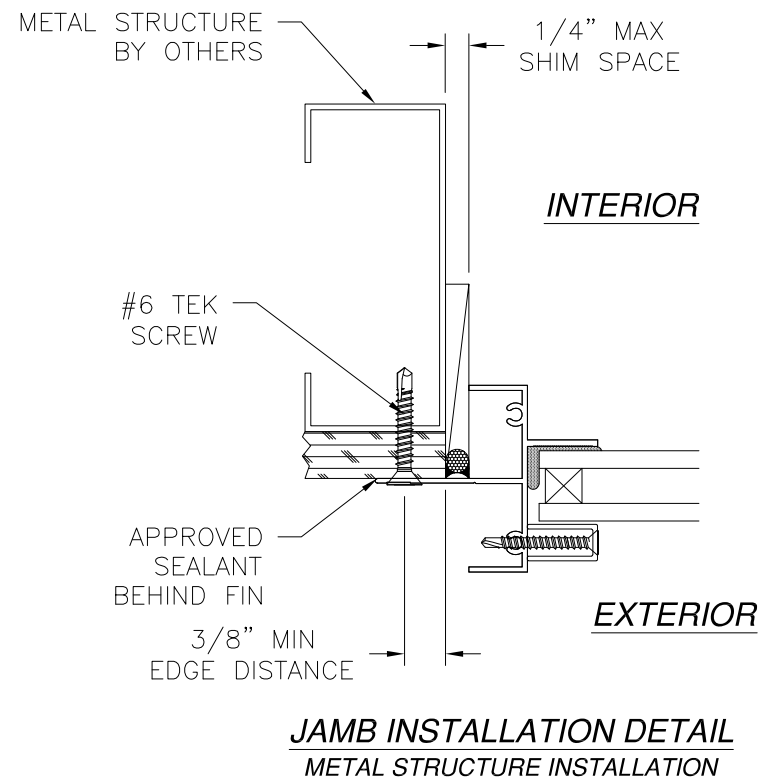
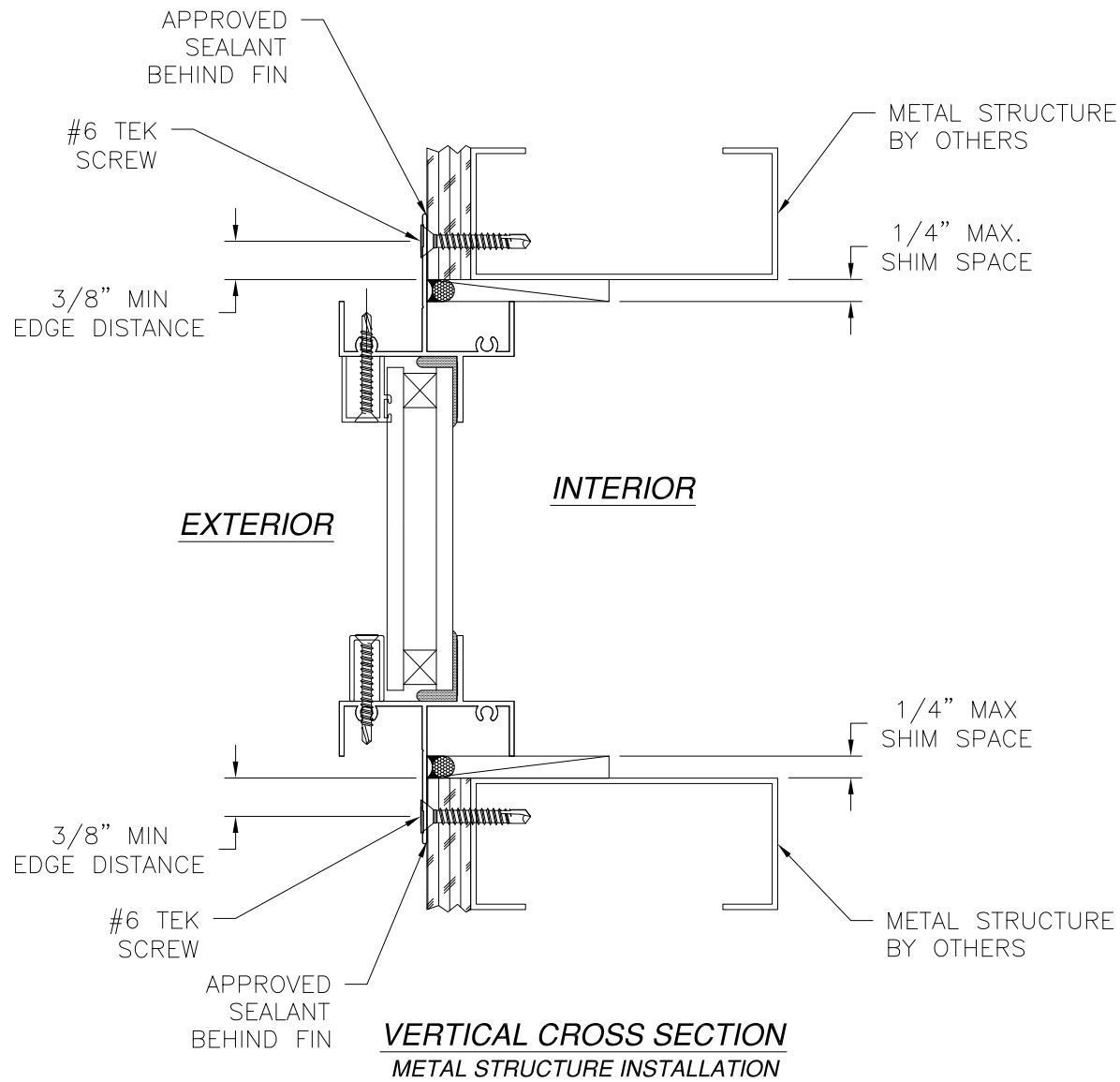
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SCALE NTS	DATE 09/03/14	SHEET 12 OF 13
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