

NOTES:

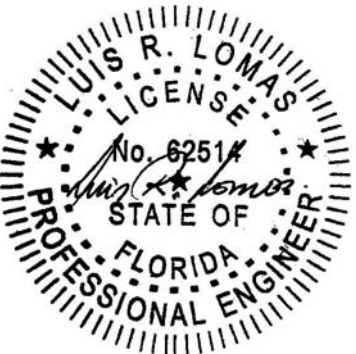
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. 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.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. FRAME MATERIAL: EXTRUDED ALUMINUM 6063-T5.
6. UNITS MUST BE GLAZED PER ASTM E1300-04/09 WITH SAFETY GLASS.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. DOOR ASSEMBLIES INSTALLED WHERE OVERHANG RATIO IS EQUAL OR GREATER THAN 1.0 DO NOT REQUIRE WATER INFILTRATION RESISTANCE.
OVERHANG RATIO = OVERHANG LENGTH/OVERHANG HEIGHT.
10. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12. FOR ANCHORING 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.
13. ALL FASTENERS TO BE CORROSION RESISTANT.
14. 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

REVISIONS			
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E	REVISED INSTALLATION DETAILS	06/22/17	R.L.

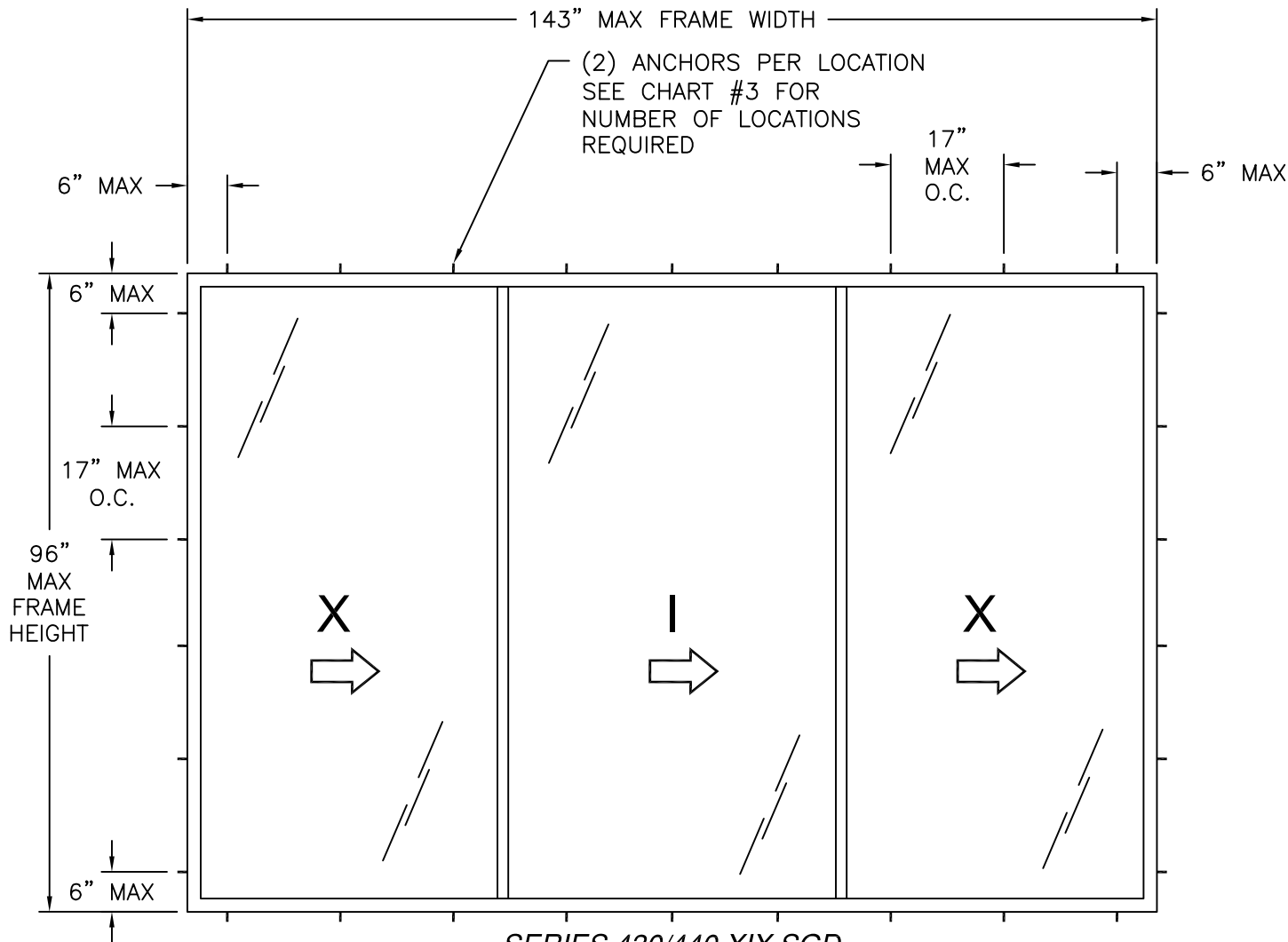
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SHEET NO.	DESCRIPTION
1	NOTES
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3 - 9	INSTALLATION DETAILS

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 430/440 XIX SGD 143" x 96" REINFORCED NOTES		
DRAWN: F.A.	DWG NO. 08-00503	REV E
SCALE NTS	DATE 02/23/09	SHEET 1 OF 9
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 06/22/2017



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



DESIGN PRESSURE RATING	IMPACT RATING
±40.0PSF	NONE

SEE CHARTS #1 AND #2 FOR OTHER UNITS RATINGS

- NOTES:
1. MAXIMUM PANEL SIZE: 48 1/2" x 95"
 2. MAXIMUM D.L.O.: 44 3/4" x 90 5/8"

HARDWARE SCHEDULE

A.	(1) FLAT MOUNTED HANDLE SET (99-04-145) AT 37 3/4" ON CENTER FROM PANEL BOTTOM
B.	(1) METALLIC TANDEM ROLLERS (99-17-195) AT EACH END OF PANEL BOTTOM RAILS
C.	ALUMINUM 6063-T6 REINFORCEMENT (668) AT ALL PANEL INTERLOCKS
D.	ALUMINUM 6063-T5 REINFORCEMENT (4237) INTERLOCK ADAPTOR AT INTERIOR FACE OF OPERABLE PANEL INTERLOCK

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CHART #1
WHERE WATER INFILTRATION RESISTANCE IS REQUIRED
SEE NOTE 9 SHEET 1

Design pressure chart (psf)								
Frame Height (in)	Single Panel and Total Frame Width (in)							
	30.0		36.0		42.0		47.7	
	90.00		108.00		126.00		143.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
84.0	40.0	60.0	40.0	57.9	40.0	52.0	40.0	48.0
88.0	40.0	60.0	40.0	54.6	40.0	48.9	40.0	45.0
92.0	40.0	59.6	40.0	51.7	40.0	46.1	40.0	42.3
96.0	40.0	56.6	40.0	49.0	40.0	43.7	40.0	40.0

CHART #2
WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED
SEE NOTE 9 SHEET 1

Design pressure chart (psf)								
Frame Height (in)	Single Panel and Total Frame Width (in)							
	30.0		36.0		42.0		47.7	
	90.00		108.00		126.00		143.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
84.0	60.0	60.0	57.9	57.9	52.0	52.0	48.0	48.0
88.0	60.0	60.0	54.6	54.6	48.9	48.9	45.0	45.0
92.0	59.6	59.6	51.7	51.7	46.1	46.1	42.3	42.3
96.0	56.6	56.6	49.0	49.0	43.7	43.7	40.0	40.0

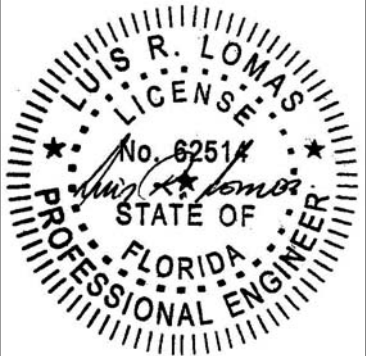
Number of anchor locations required								
Frame Height (in)	Single Panel and Total Frame Width (in)							
	30.0		36.0		42.0		47.7	
	90.0		108.0		126.0		143.0	
	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb
84.0	6	6	7	6	8	6	9	6
88.0	7	6	7	6	8	6	9	6
92.0	7	6	7	6	8	6	9	6
96.0	7	6	7	6	8	6	9	6

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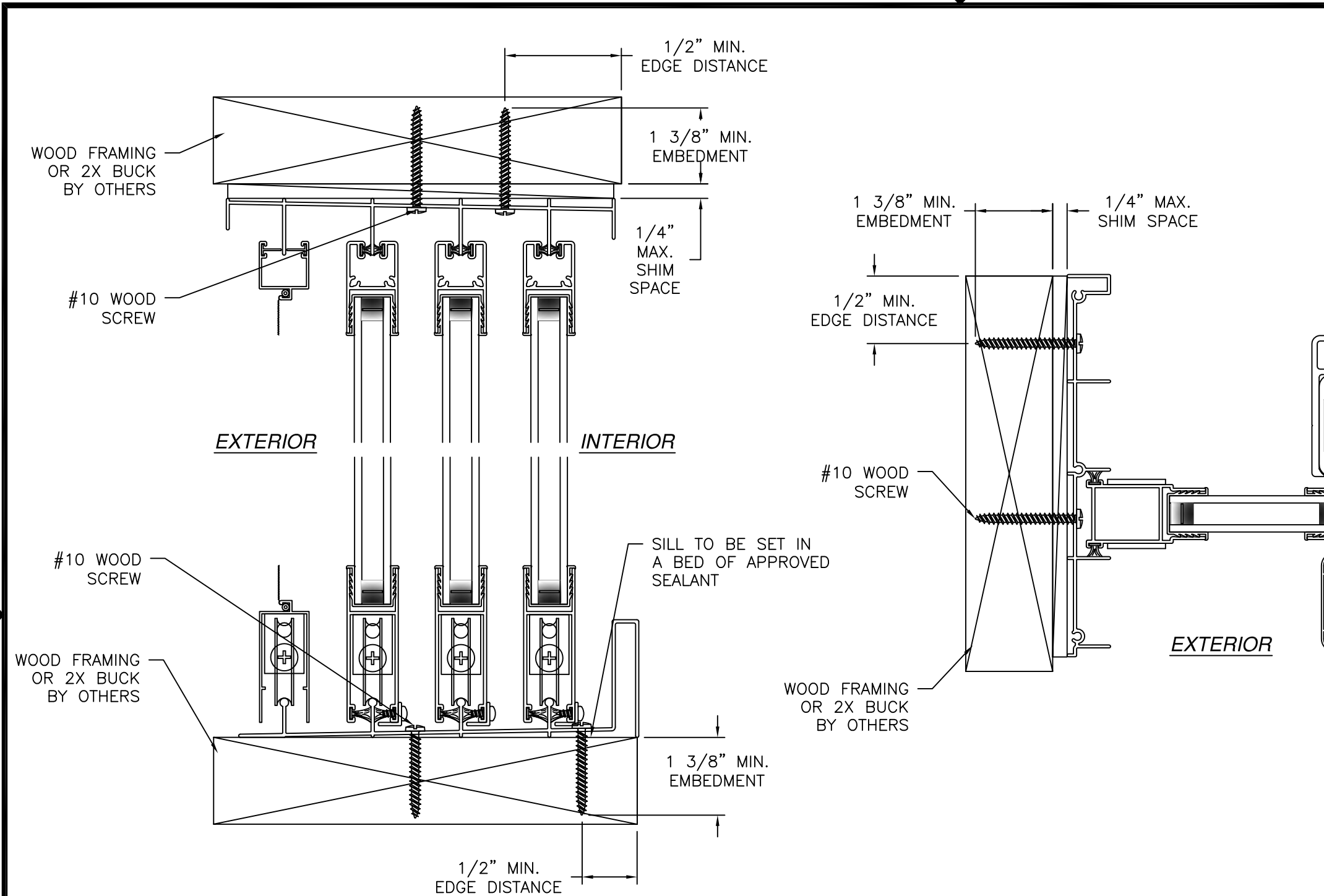
MI WINDOWS AND DOORS LLC
650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 430/440 XIX SGD
143" x 96" REINFORCED
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DRAWN: F.A.	DWG NO. 08-00503	REV E
SCALE NTS	DATE 02/23/09	SHEET 2 OF 9
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		



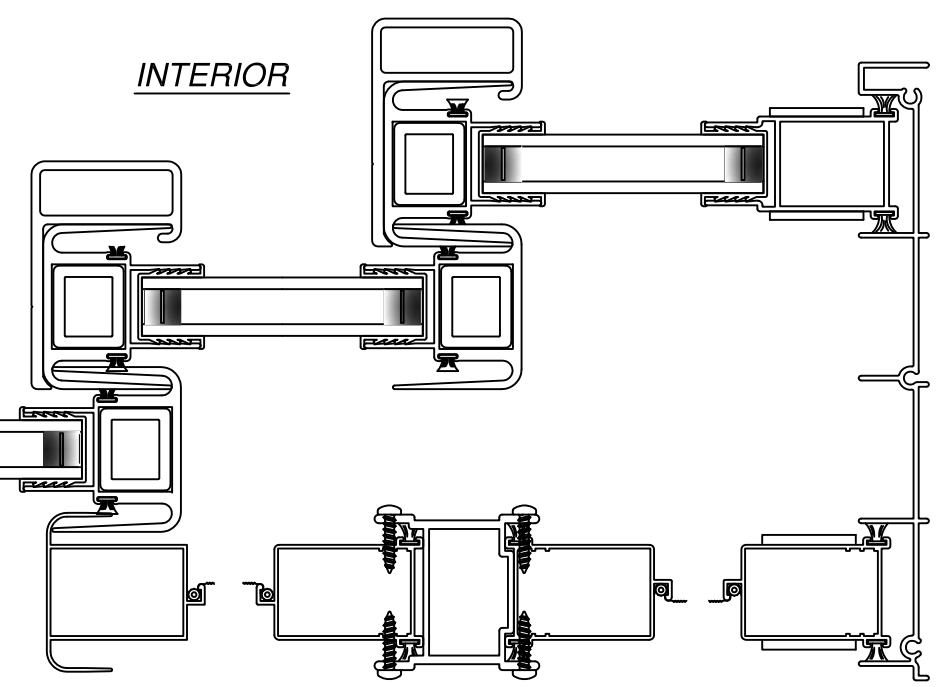
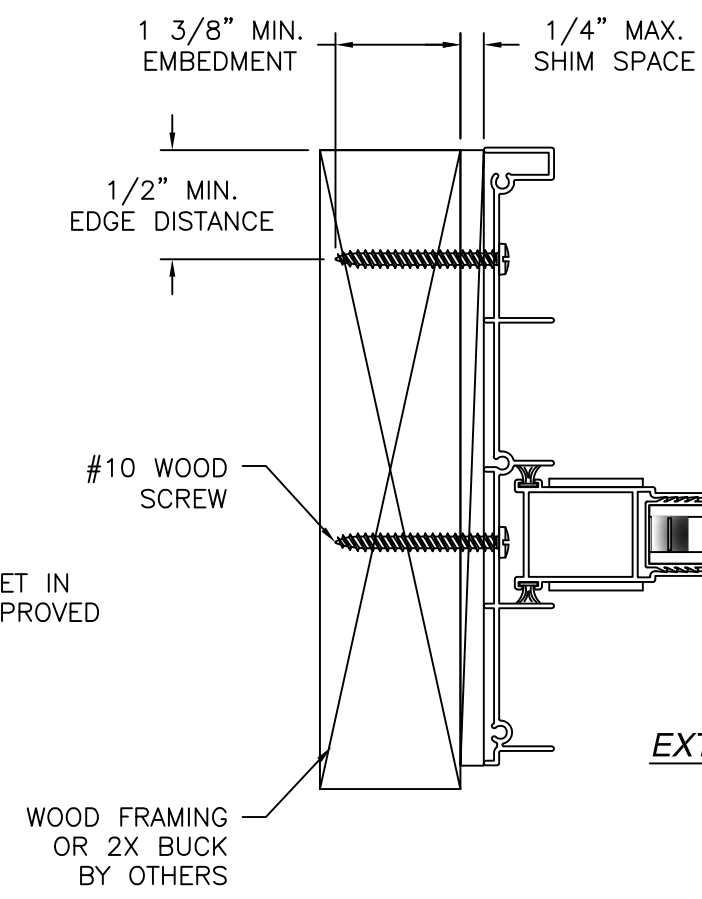
Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
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			
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JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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

SERIES 430/440 XIX SGD
143" x 96" REINFORCED
FRAME INSTALLATION DETAILS

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DATE
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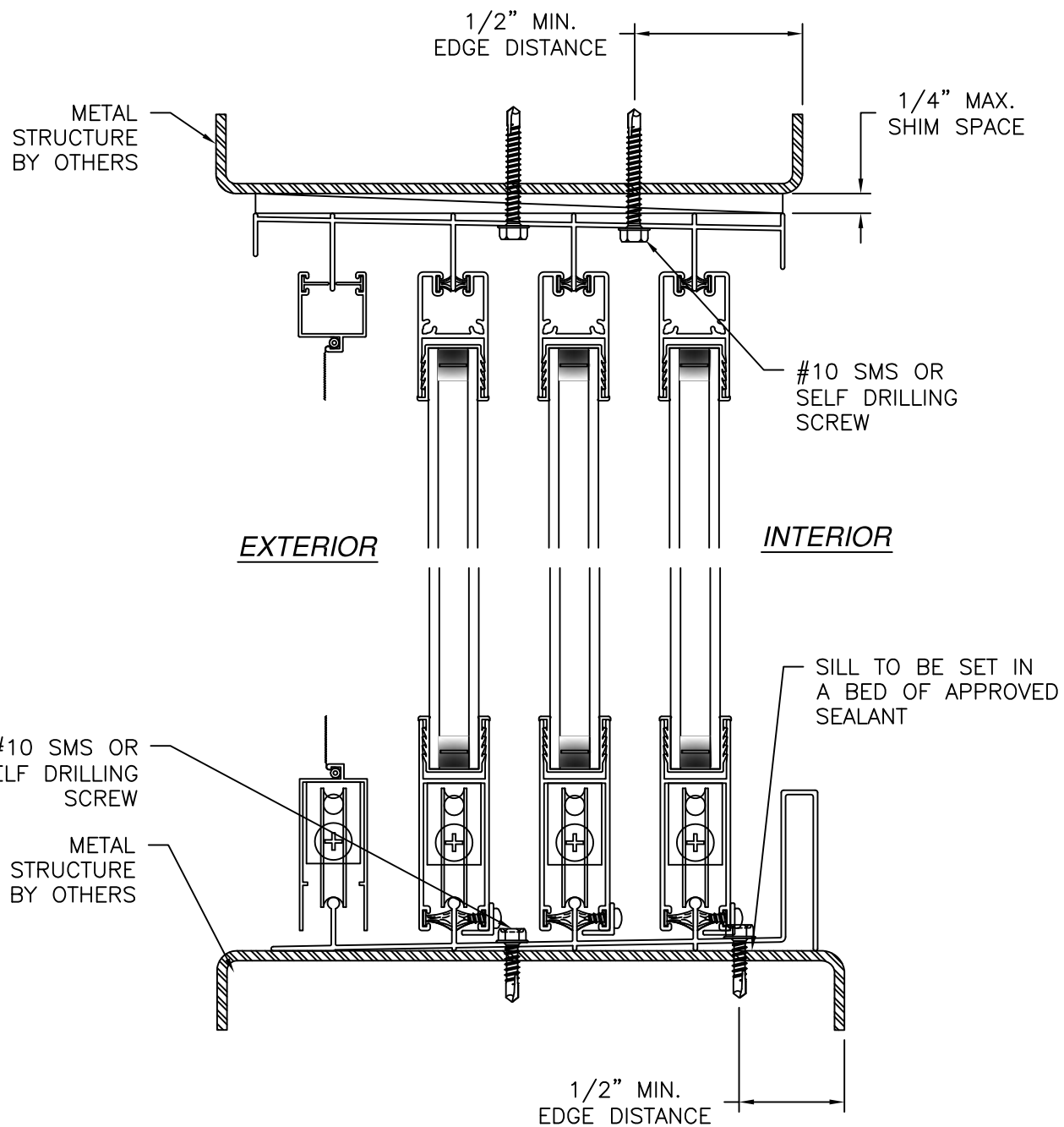
SHEET
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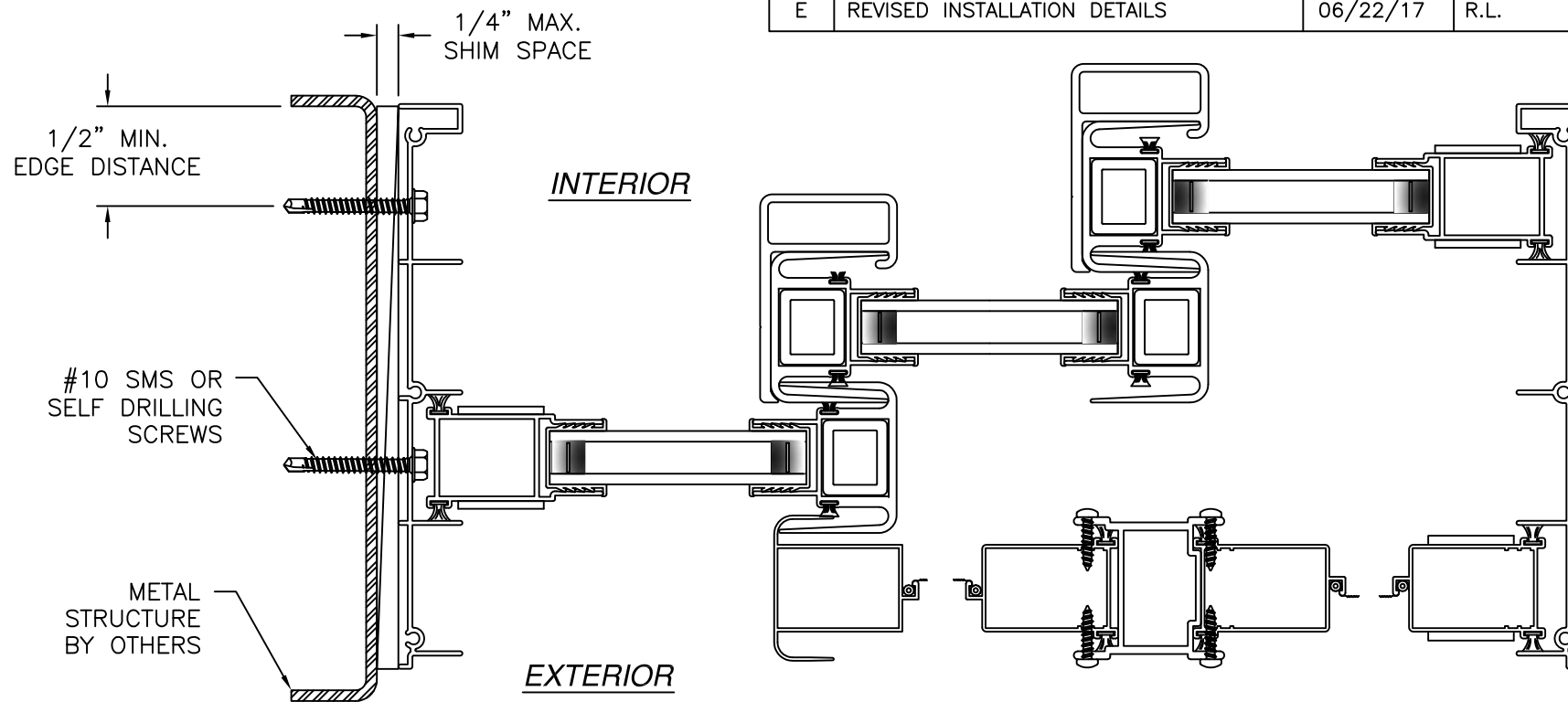
SIGNED: 06/22/2017

Luis R. Lomas
Professional Engineer
State of Florida
No. 62514

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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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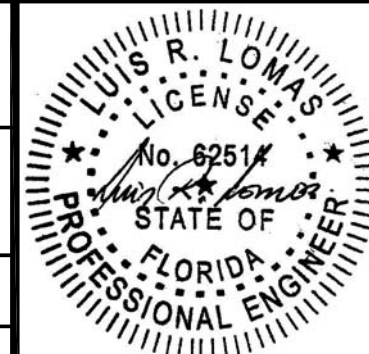
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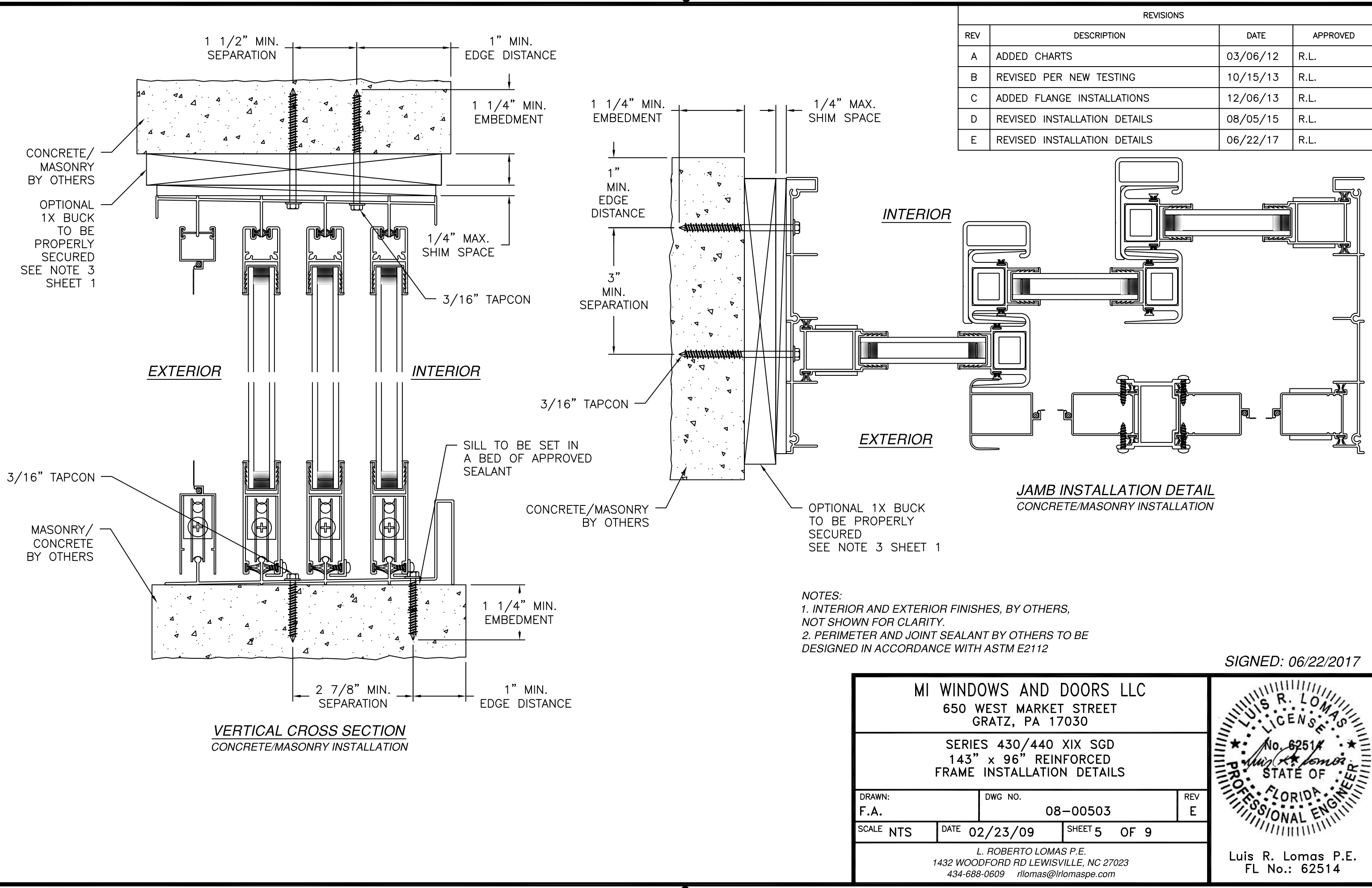
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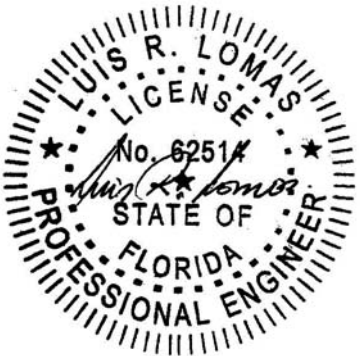
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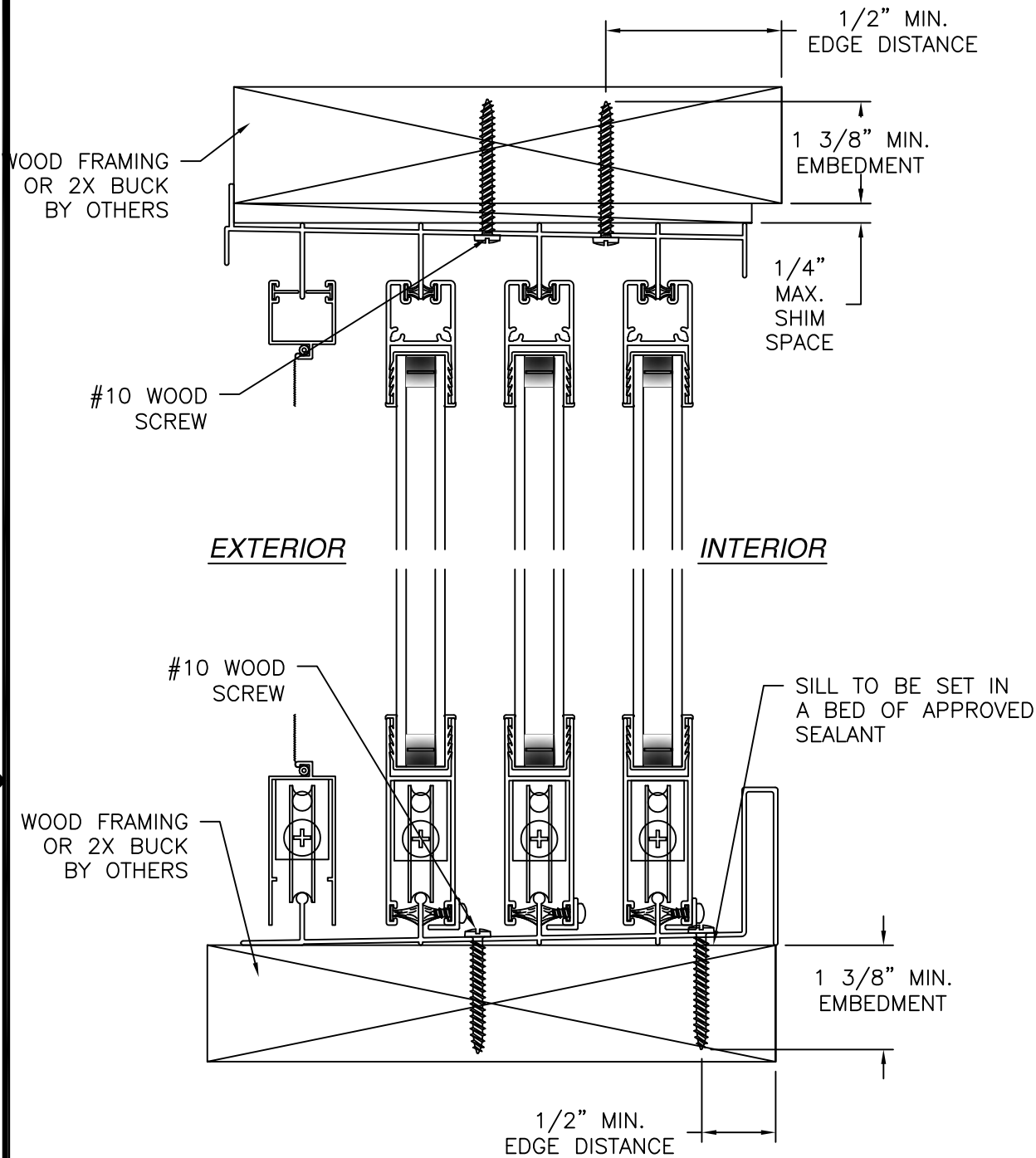
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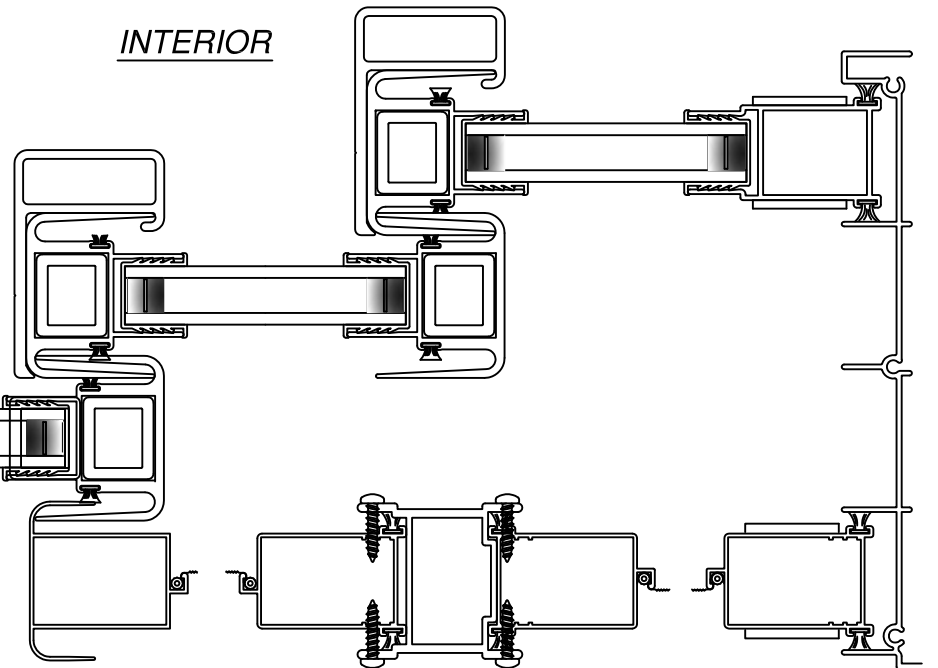
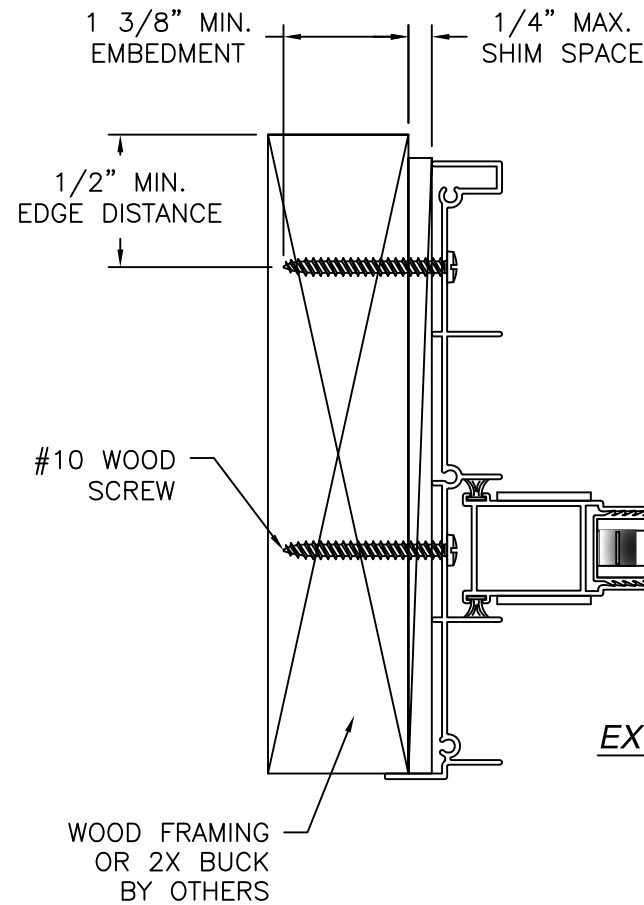


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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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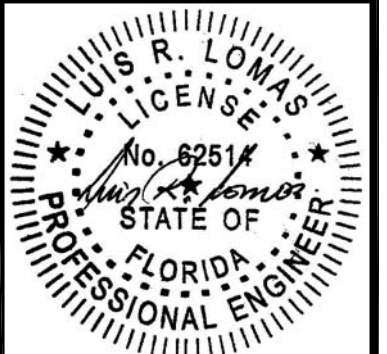
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SHEET 6 OF 9

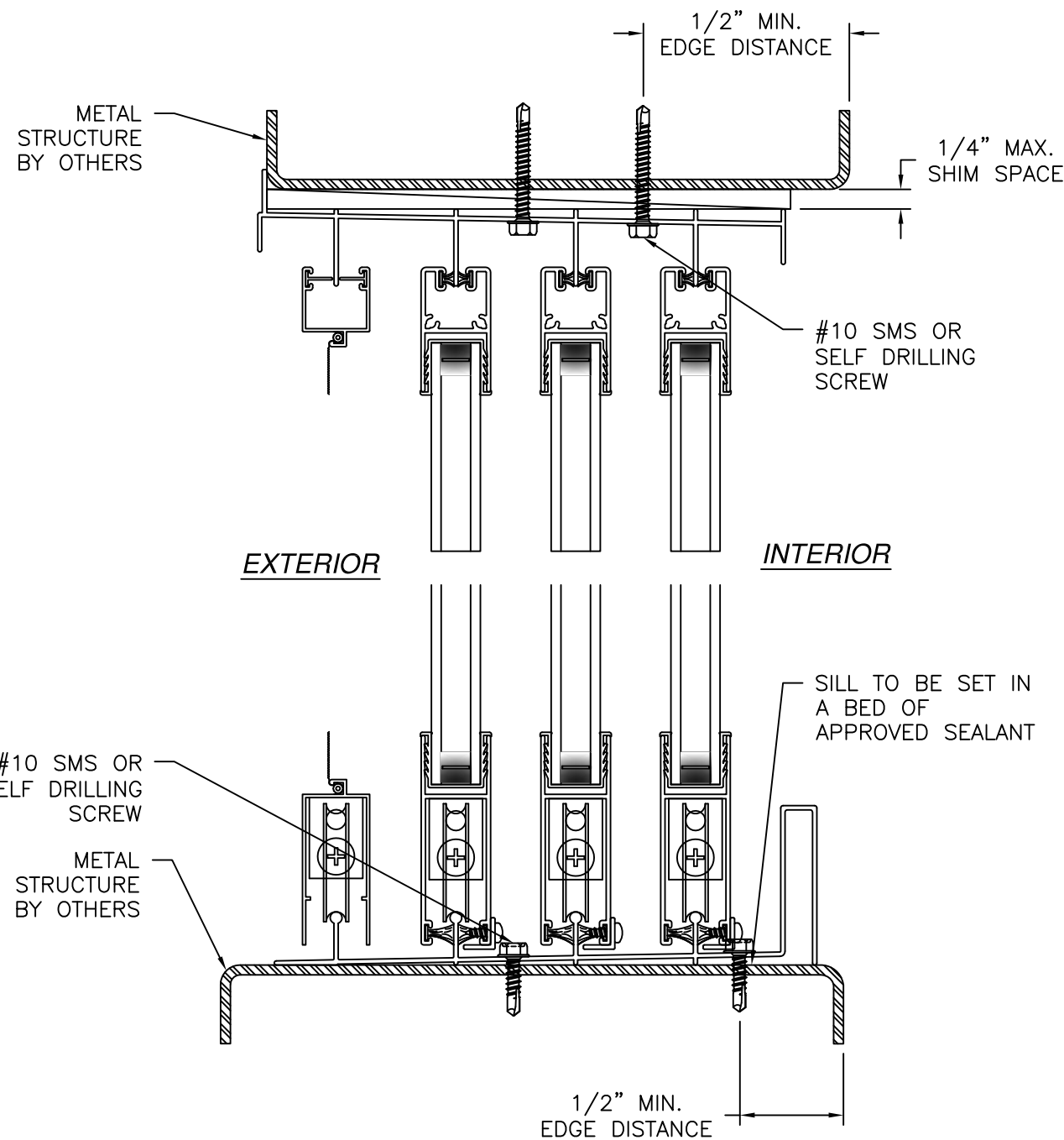
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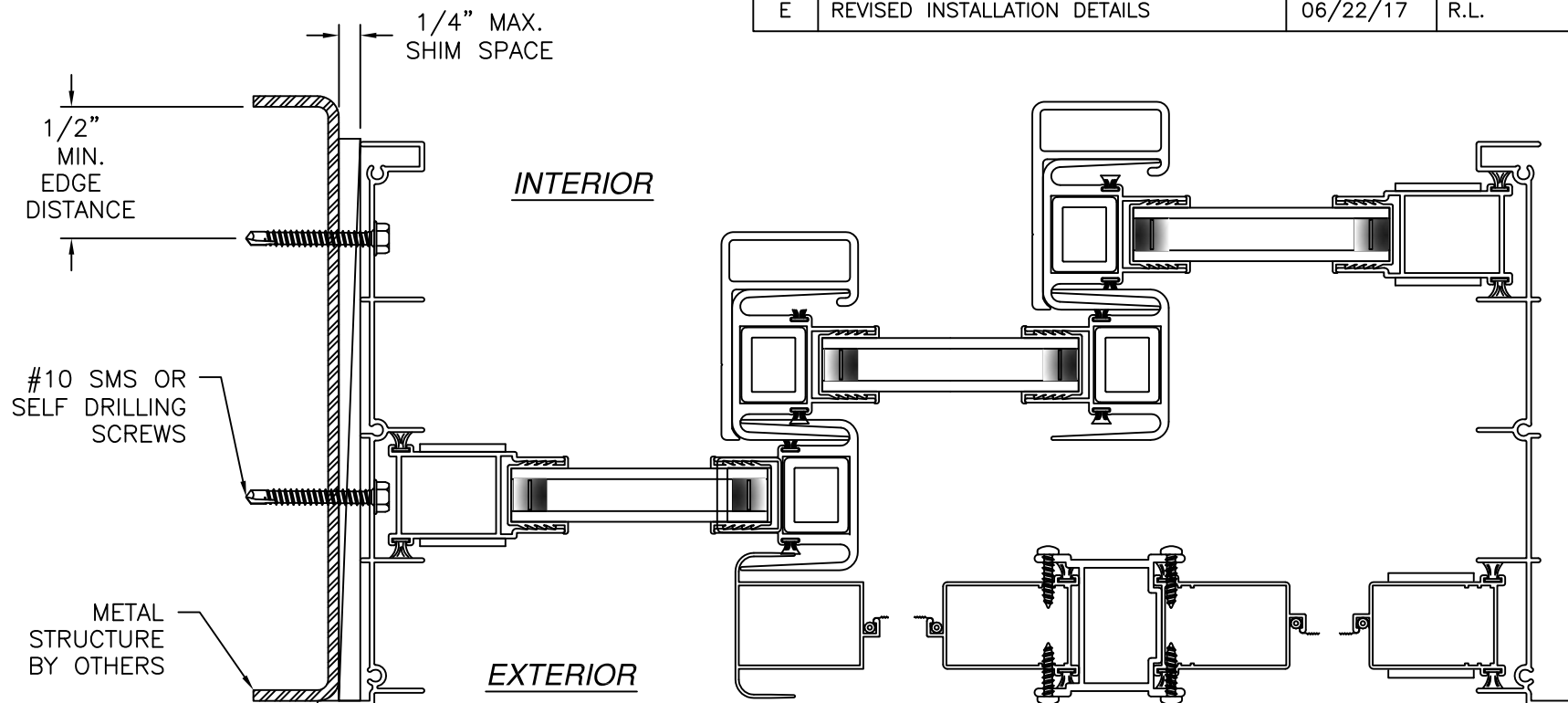
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



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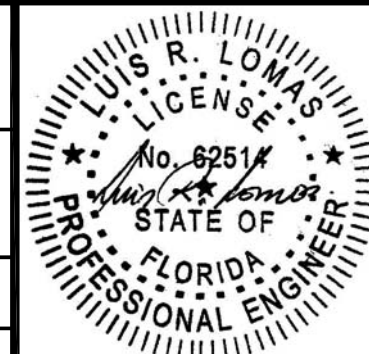
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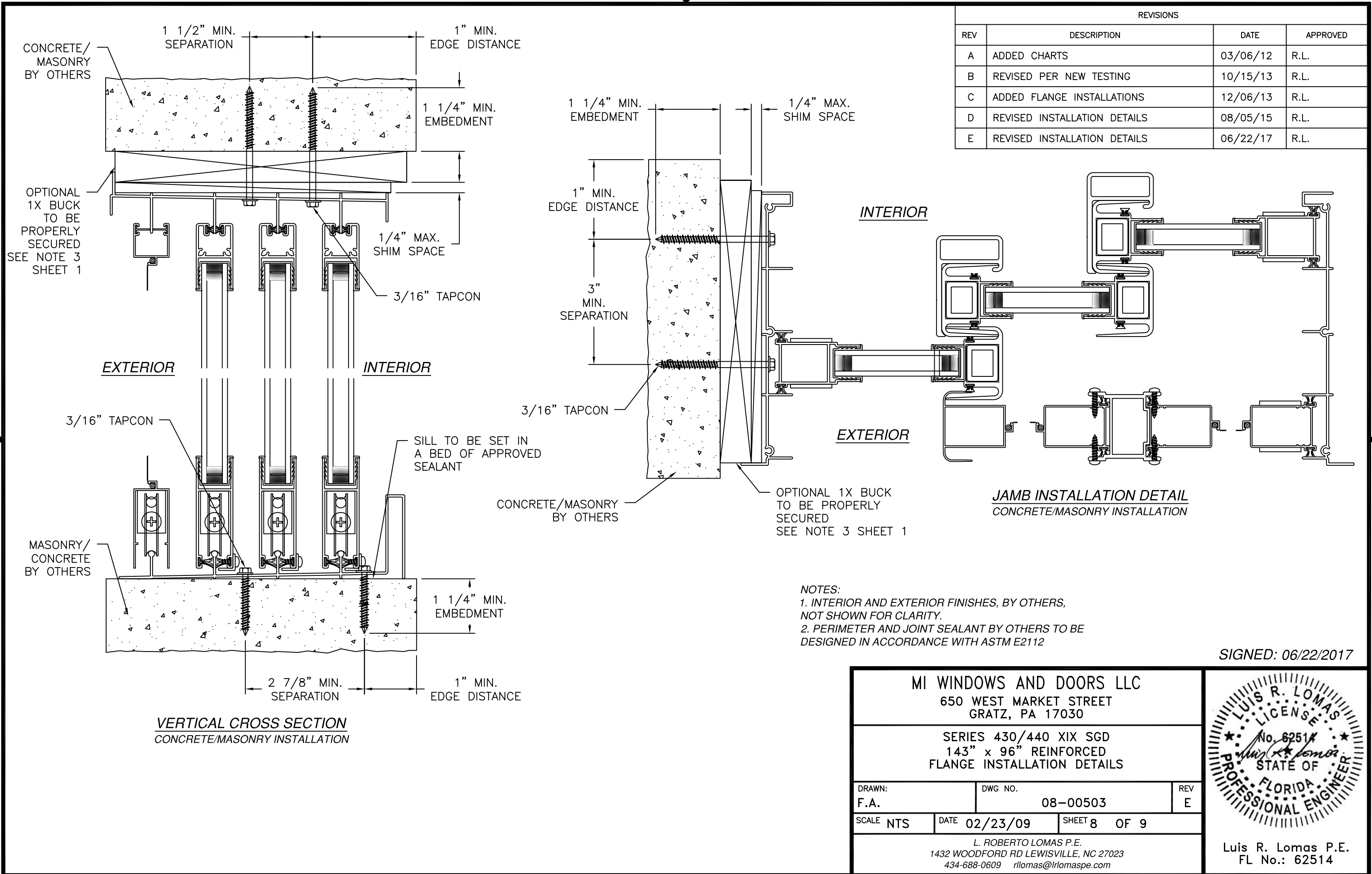
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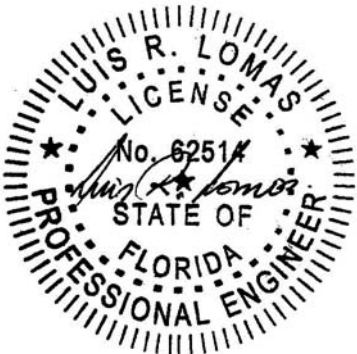
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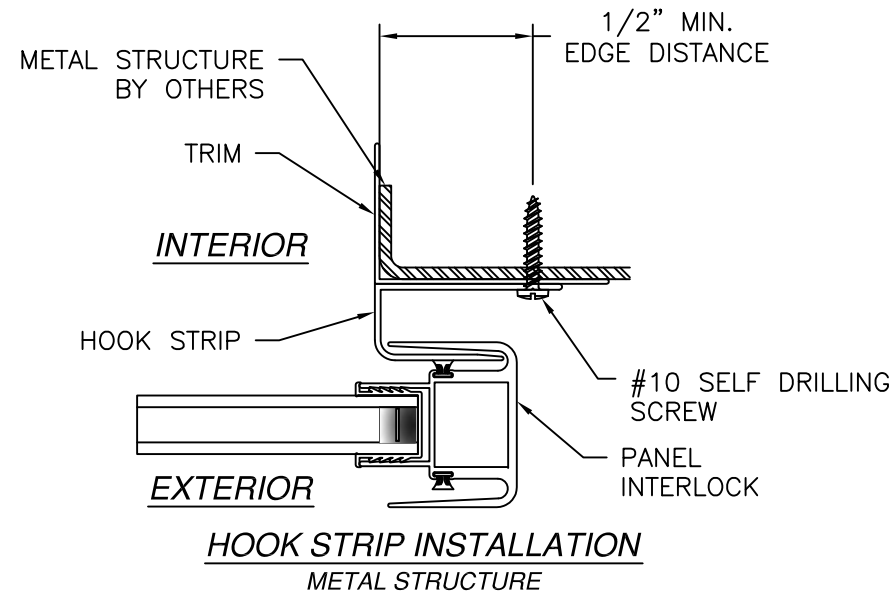
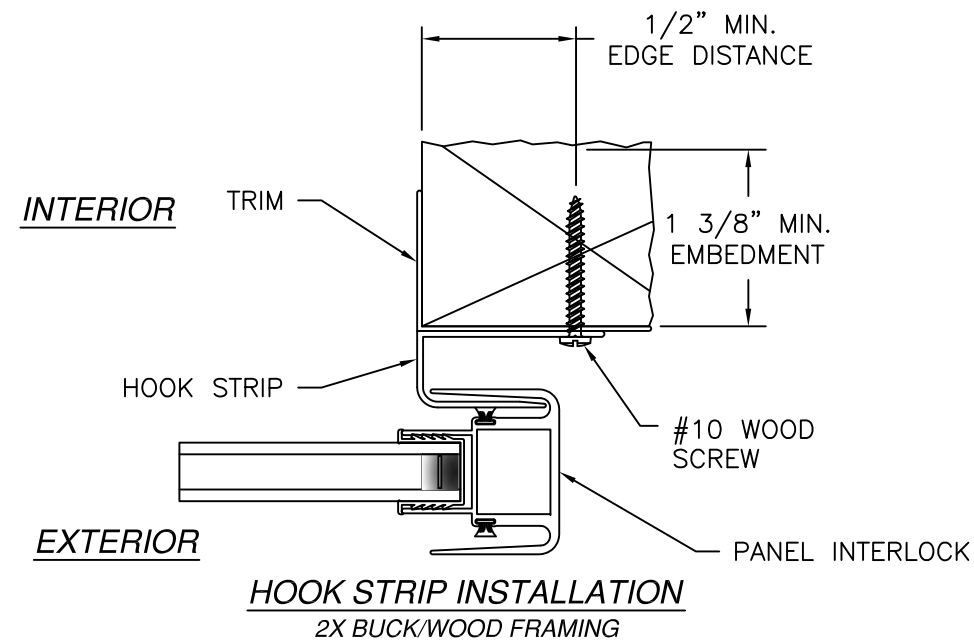
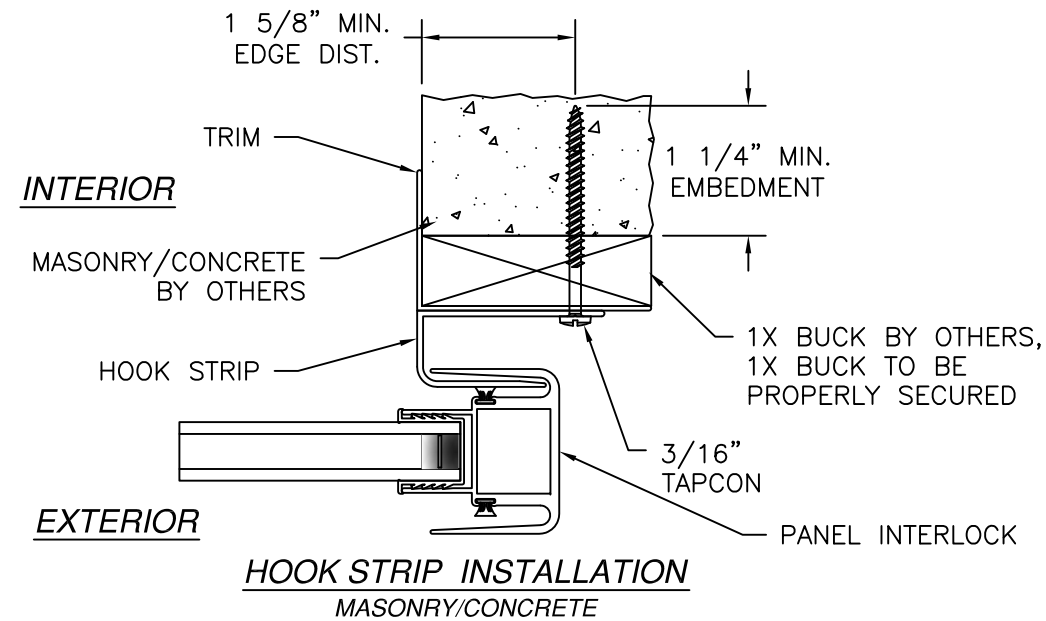
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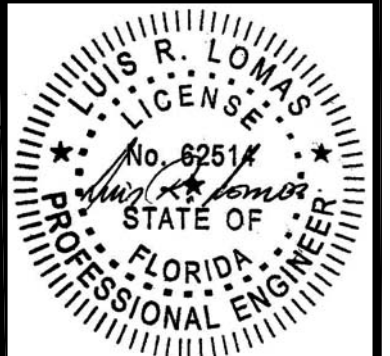


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MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 430/440 XIX SGD 143" x 96" REINFORCED HOOK INSTALLATION DETAILS		
DRAWN: F.A.	DWG NO. 08-00503	REV E
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L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		

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