

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: EXTRUDED ALUMINUM 6005–T5.
12. UNITS MUST BE GLAZED PER ASTM E1300–04/09, SEE SHEET 26 FOR GLASS DETAIL.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 1/4” ELCO CRETE–FLEX 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.
16. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #14 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.
17. ALL FASTENERS TO BE CORROSION RESISTANT.
18. 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
19. APPROVED CONFIGURATIONS: OX, XO, XX, OXXO, PX, XP, PXXP, PIX, XIP, PIXXIP, XIX, OIX, XIO, PIIX, XIIP, XIIX, OIIX, XIIO, PIIIX, XIIP, OXO, OIXXIO, PIIXXIIP.
20. DOOR ASSEMBLIES INSTALLED WHERE OVERHANG RATIO IS EQUAL OR GREATER THAN 1.0 DO NOT REQUIRE WATER INFILTRATION RESISTANCE.

OVERHANG RATIO = OVERHANG LENGHT/OVERHANG HEIGHT.

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4	DESIGN PRESSURE CHARTS
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MI WINDOWS AND DOORS LLC
650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 120/130/140 ALUMINUM SGD
NON–REINFORCED, LARGE & SMALL MISSILE IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08–03321

REV
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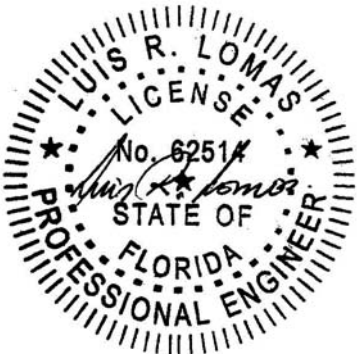
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DATE 09/19/18

SHEET 1 OF 28

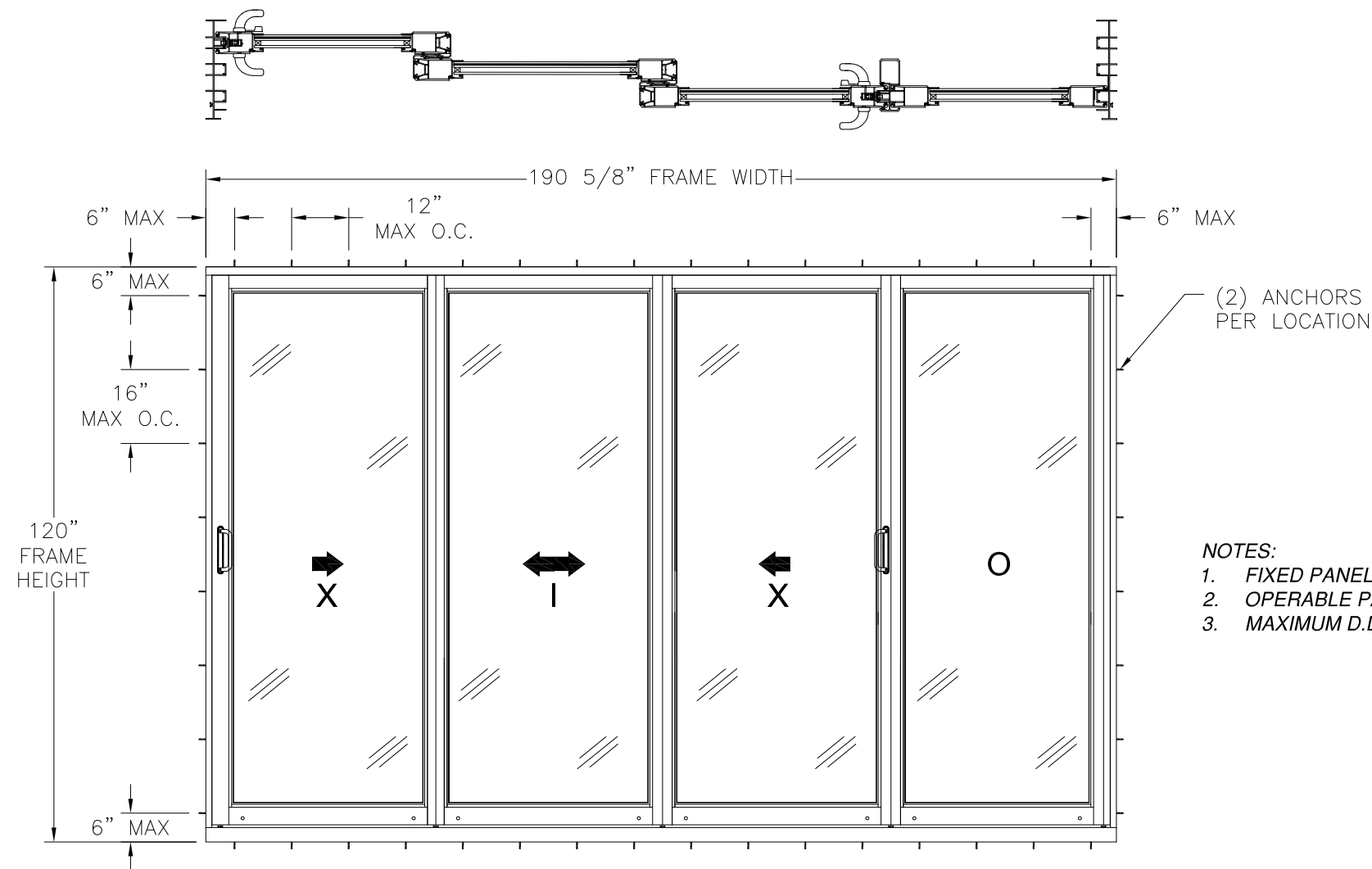
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SIGNED: 10/11/2018



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



- NOTES:
- 1. FIXED PANEL SIZE: 49 5/8" x 117 1/2"
 - 2. OPERABLE PANEL: 48 5/8" x 117 1/2"
 - 3. MAXIMUM D.L.O.: 40 5/8" x 109 3/4"

SERIES 120/130/140 ALUMINUM SGD - IMPACT

EXTERIOR VIEW
FINLESS & FLANGE INSTALLATION

WITH 2 5/8" SILL EXTENDERS

DESIGN PRESSURE RATING	IMPACT RATING
+45.0/-55.0PSF	LARGE AND SMALL MISSILE IMPACT

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
SEE CHART #1, SHEET 4

WITH 3 1/2" SILL EXTENDERS

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

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
SEE CHART #2, SHEET 4

WITH 2 5/8" & 3 1/2" SILL EXTENDERS

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

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED
SEE CHART #3, SHEET 4

(4) PANELS SHOWN. UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS ARE APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 40.49" FT²

HARDWARE SCHEDULE

- | | |
|----|--|
| A. | TANDEM ROLLER ASSEMBLY, 2 PER PANEL, 8" FROM EACH END OF BOTTOM RAIL |
| B. | LOCK HANDLE BY TRUTH/AMESBURY, INTERIOR AND EXTERIOR OF OPERABLE PANEL, 39" FROM BOTTOM RAIL |
| C. | LOCK HANDLE BY FASCO, INTERIOR AND EXTERIOR OF OPERABLE PANEL, 39" FROM BOTTOM RAIL |

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NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
ELEVATION

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SCALE NTS	DATE 09/19/18	SHEET 2 OF 28

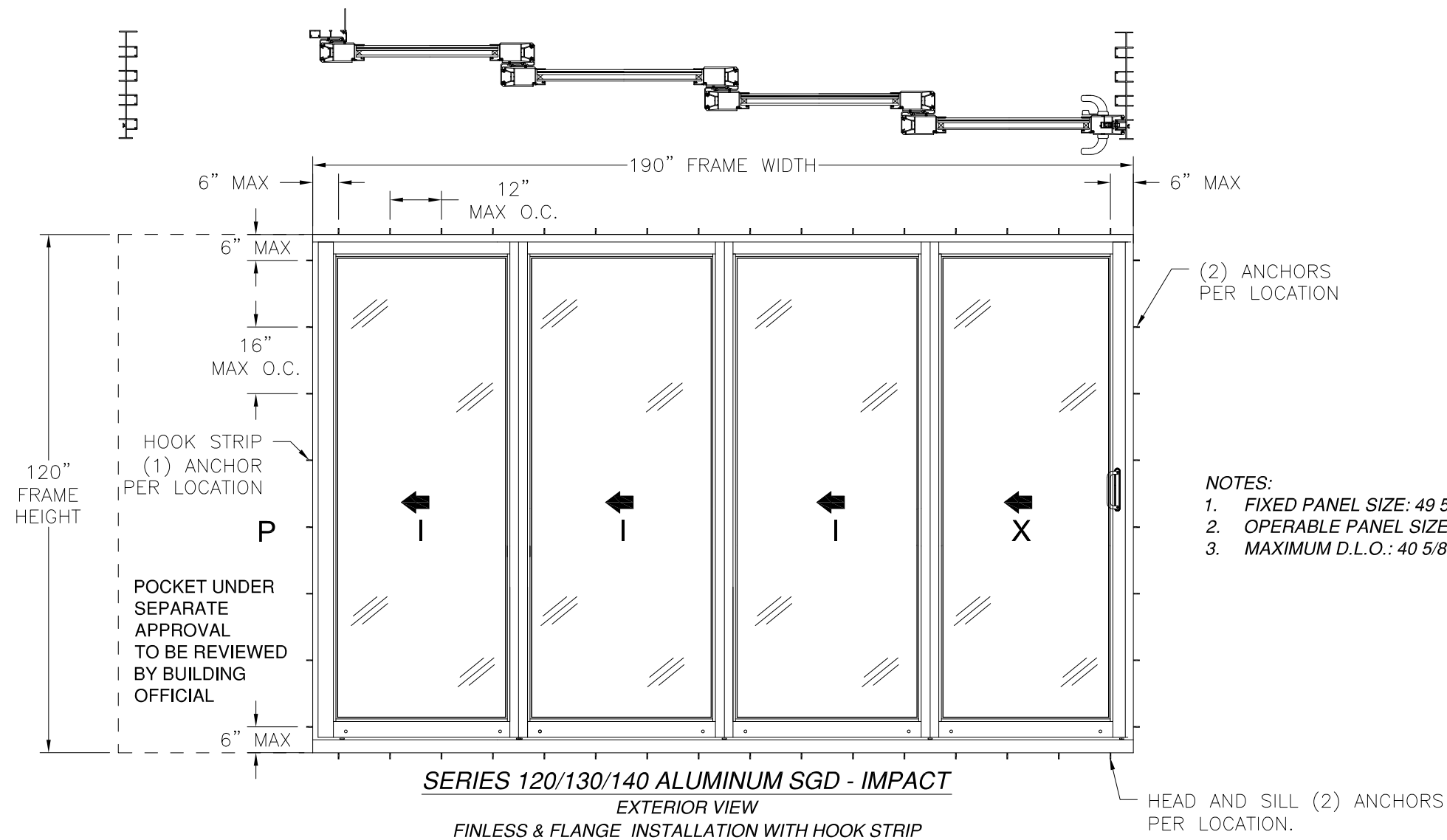
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WITH 2 5/8" SILL EXTENDERS

DESIGN PRESSURE RATING	IMPACT RATING
+45.0/-55.0PSF	LARGE AND SMALL MISSILE IMPACT

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
SEE CHART #1, SHEET 4

WITH 3 1/2" SILL EXTENDERS

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

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
SEE CHART #2, SHEET 4

WITH 2 5/8" & 3 1/2" SILL EXTENDERS

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

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED
SEE CHART #3, SHEET 4

(4) PANELS SHOWN. UNLIMITED NUMBER OF PANELS IN UNLIMITED
CONFIGURATIONS ARE APPROVED AS LONG AS INDIVIDUAL PANEL
AREA DOES NOT EXCEED 40.49" FT²

HARDWARE SCHEDULE

A.	TANDEM ROLLER ASSEMBLY, 2 PER PANEL, 8" FROM EACH END OF BOTTOM RAIL
B.	LOCK HANDLE BY TRUTH/AMESBURY, INTERIOR AND EXTERIOR OF OPERABLE PANEL, 39" FROM BOTTOM RAIL
C.	LOCK HANDLE BY FASCO, INTERIOR AND EXTERIOR OF OPERABLE PANEL, 39" FROM BOTTOM RAIL

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ELEVATION

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Chart #1
Maximum Design pressure (psf)
Units installed with 2 5/8" sill

Panel Height (in)	Single Panel Width (in)											
	24.0		30.0		36.0		42.0		48.625		54.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0
84.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0
90.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0
96.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0
102.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0
108.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	-	-
114.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	-	-
117.5	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	-	-
120.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	55.0	-	-	-	-
126.0	45.0	55.0	45.0	55.0	45.0	55.0	45.0	50.4	-	-	-	-
132.0	45.0	55.0	45.0	55.0	45.0	50.4	43.6	43.6	-	-	-	-
138.0	45.0	55.0	45.0	52.3	44.0	44.0	-	-	-	-	-	-
144.0	45.0	55.0	45.0	46.0	38.6	38.6	-	-	-	-	-	-

Chart #2
Maximum Design pressure (psf)
Units installed with 3 1/2" sill

Panel Height (in)	Single Panel Width (in)											
	24.0		30.0		36.0		42.0		48.625		54.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
84.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
90.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
96.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
102.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
108.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	-	-
114.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	-	-
117.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	-	-
120.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	-	-	-	-
126.0	55.0	55.0	55.0	55.0	55.0	55.0	50.4	50.4	-	-	-	-
132.0	55.0	55.0	55.0	55.0	50.4	50.4	43.6	43.6	-	-	-	-
138.0	55.0	55.0	52.3	52.3	44.0	44.0	-	-	-	-	-	-

Chart #3
Maximum Design pressure (psf)
For units installed where water penetration resistance is not required

Panel Height (in)	Single Panel Width (in)											
	24.0		30.0		36.0		42.0		48.625		54.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
84.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
90.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
96.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
102.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
108.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	-	-
114.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	-	-
117.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	-	-
120.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	-	-	-	-
126.0	55.0	55.0	55.0	55.0	55.0	55.0	50.4	50.4	-	-	-	-
132.0	55.0	55.0	55.0	55.0	50.4	50.4	43.6	43.6	-	-	-	-
138.0	55.0	55.0	52.3	52.3	44.0	44.0	-	-	-	-	-	-
144.0	55.0	55.0	46.0	46.0	38.6	38.6	-	-	-	-	-	-

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MI WINDOWS AND DOORS LLC

650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
DESIGN PRESSURE CHARTS

DRAWN:
A.R.

DWG NO.
08-03321

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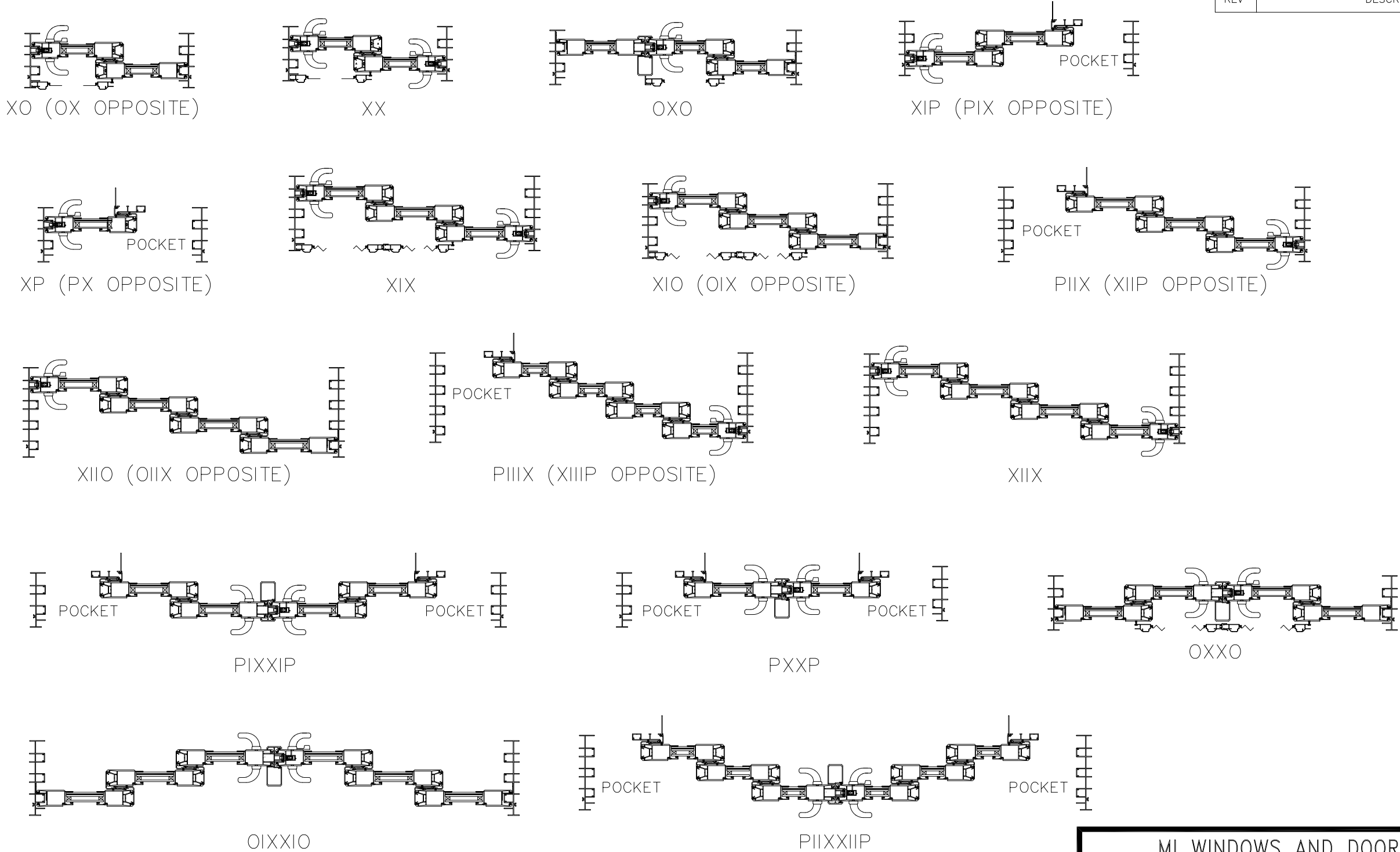
SHEET 4 OF 28

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 PANELS MAY BE MIXED & MATCHED AS
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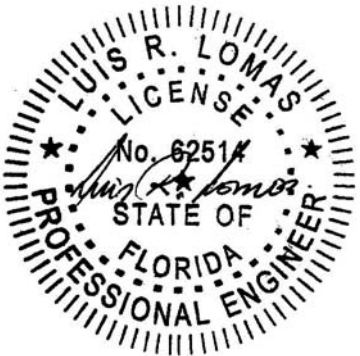
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650 WEST MARKET STREET
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SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
FINLESS PLAN VIEWS

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SCALE NTS	DATE 09/19/18	SHEET 5 OF 28

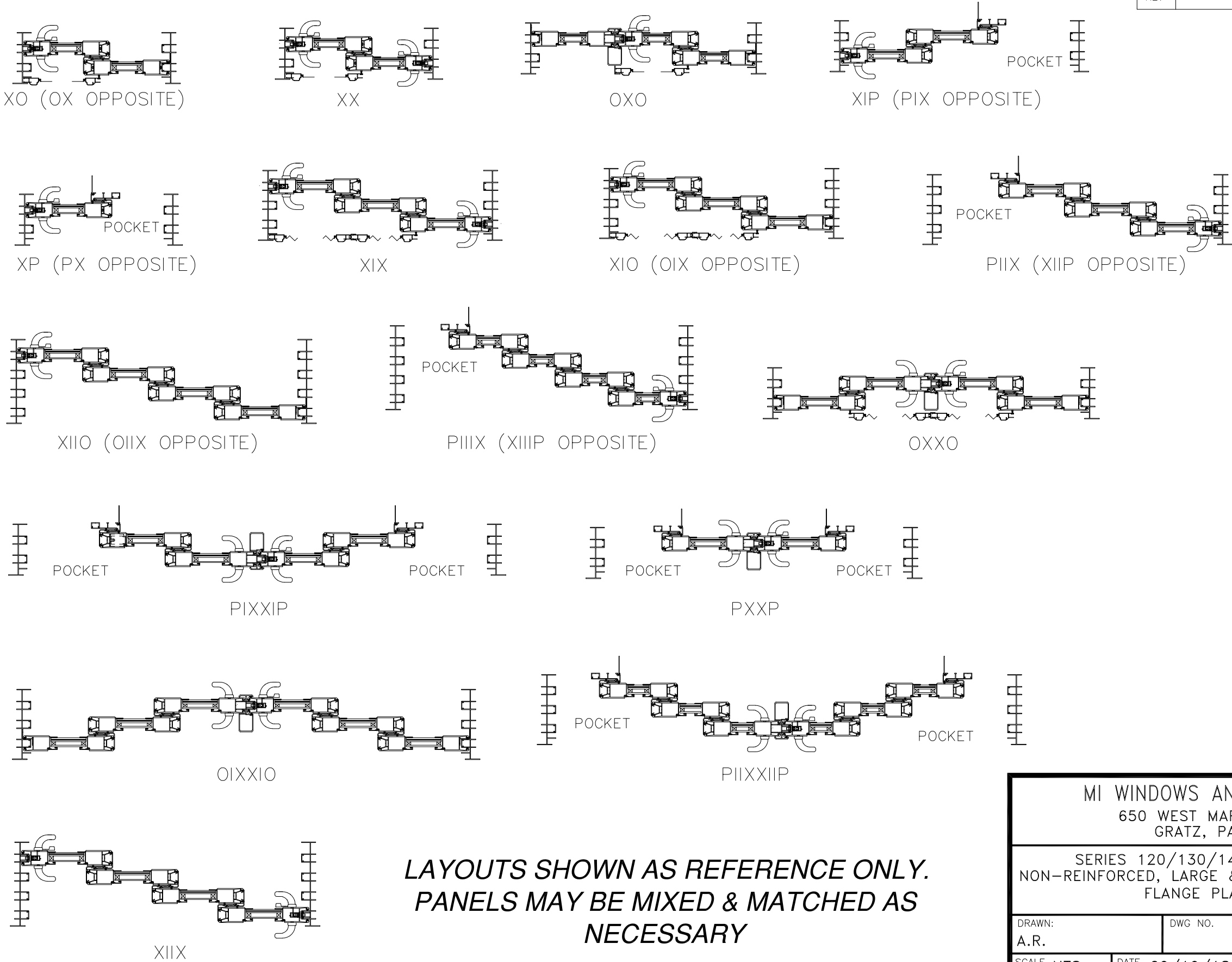
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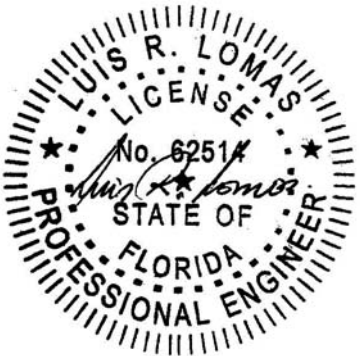
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FLANGE PLAN VIEWS

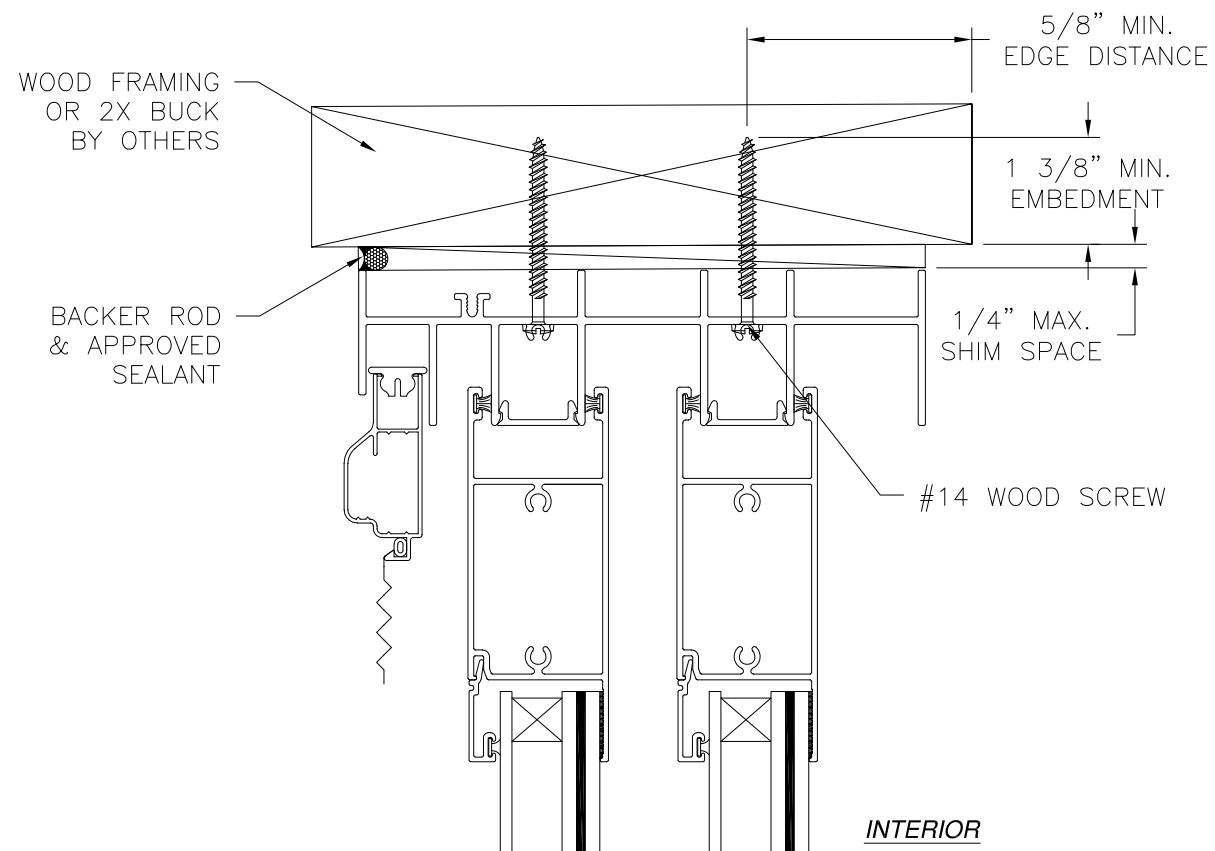
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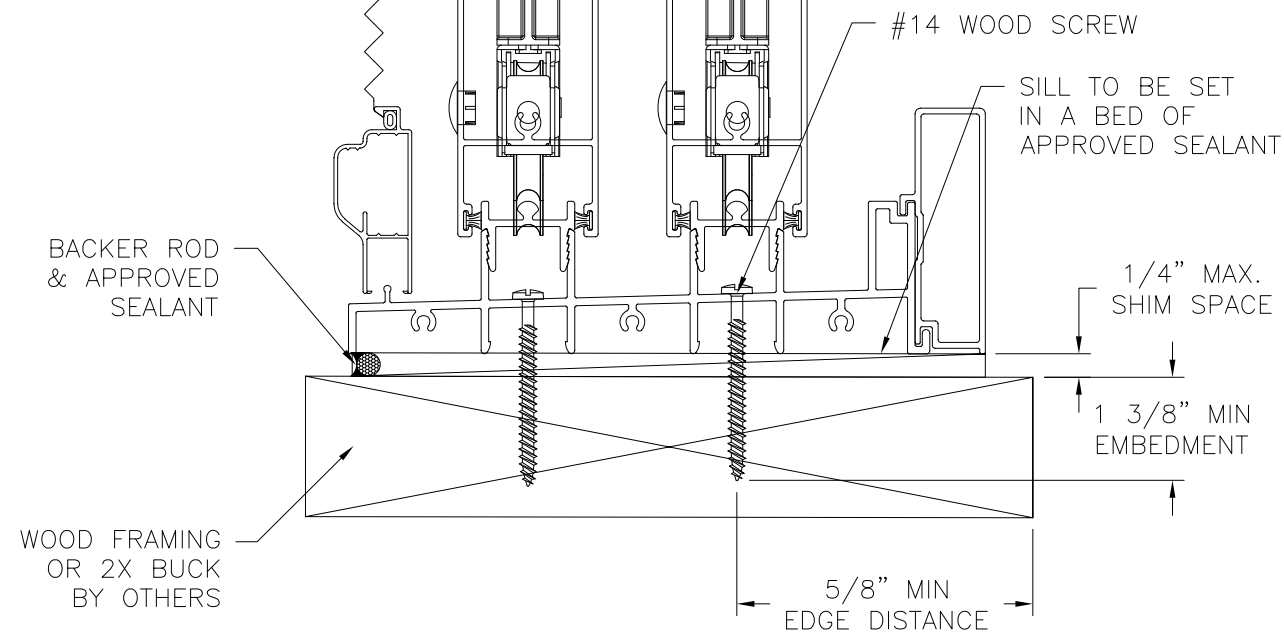


EXTERIOR

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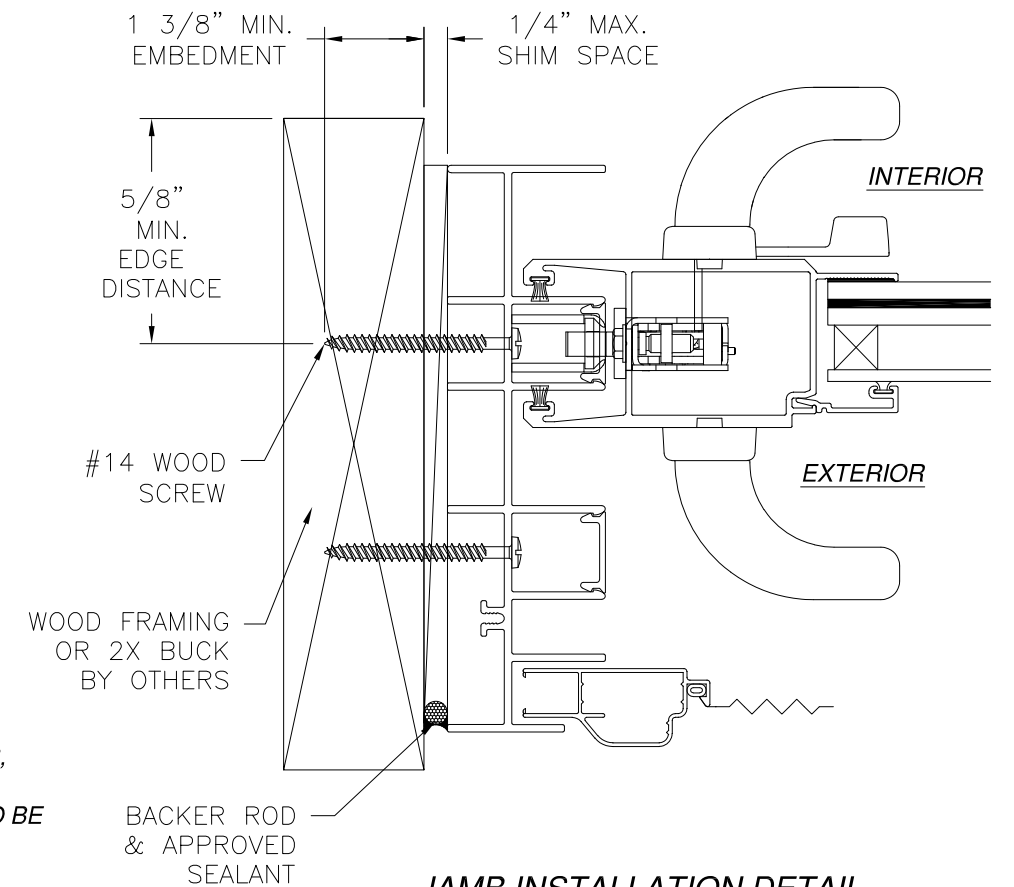
NOTES:

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



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

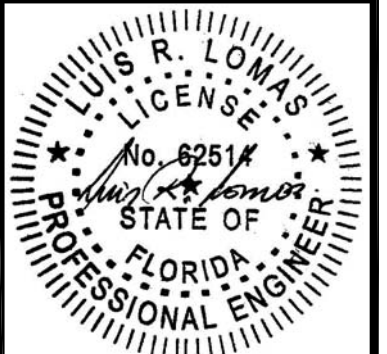
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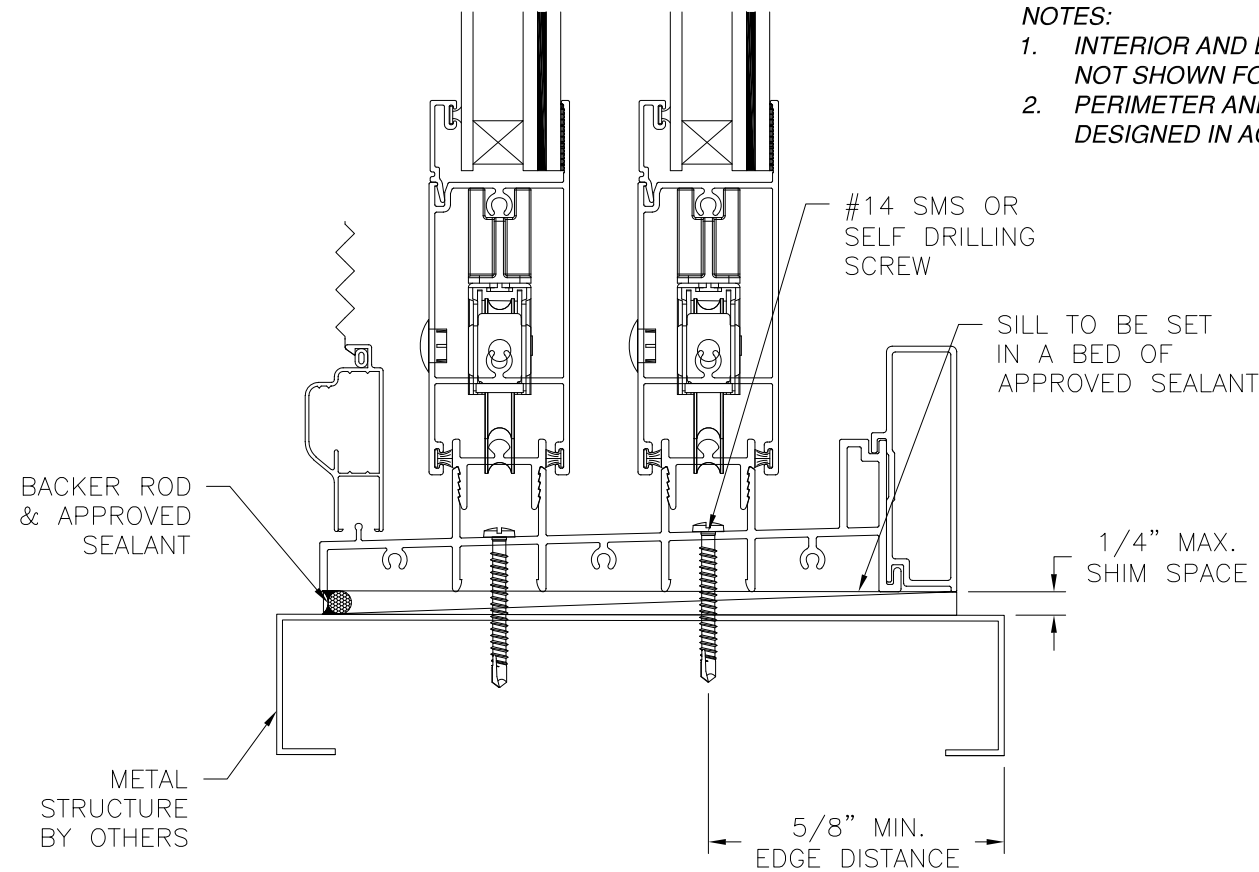
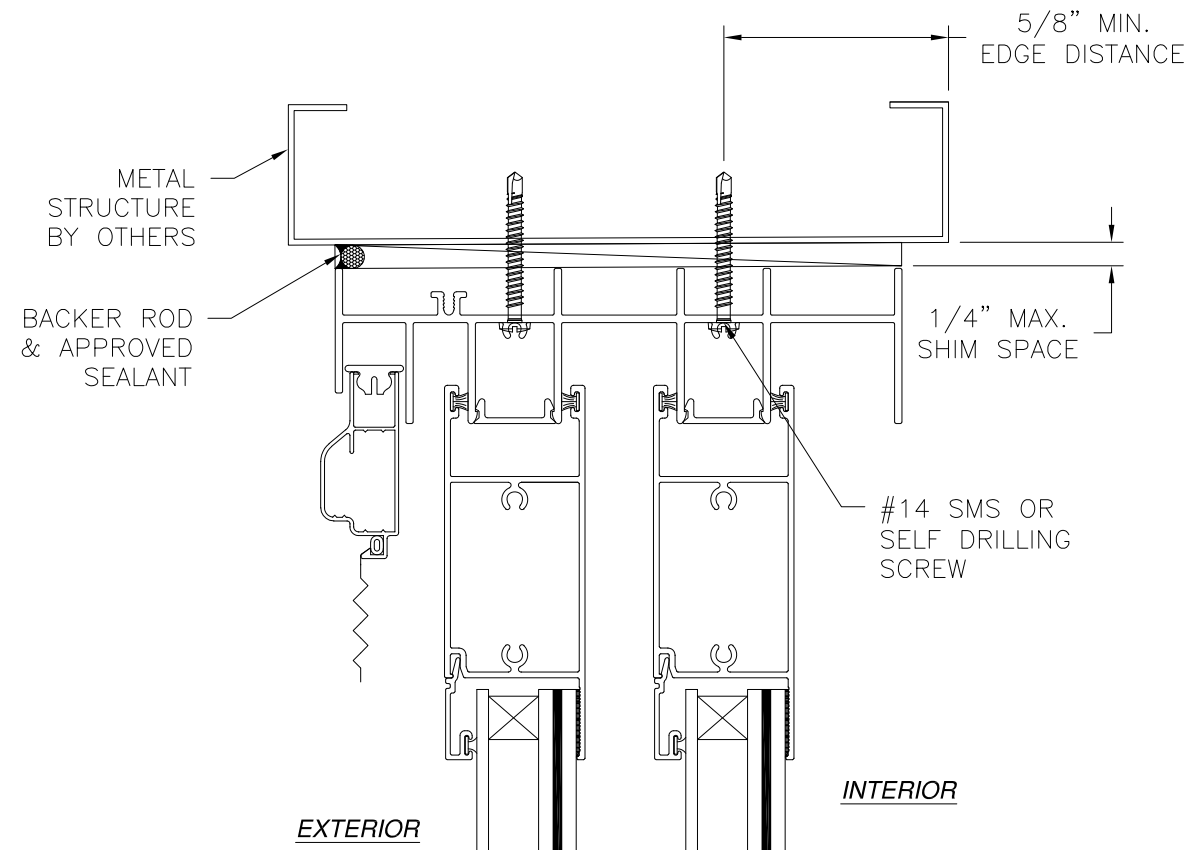
SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
2 TRACK FINLESS INSTALLATION DETAILS

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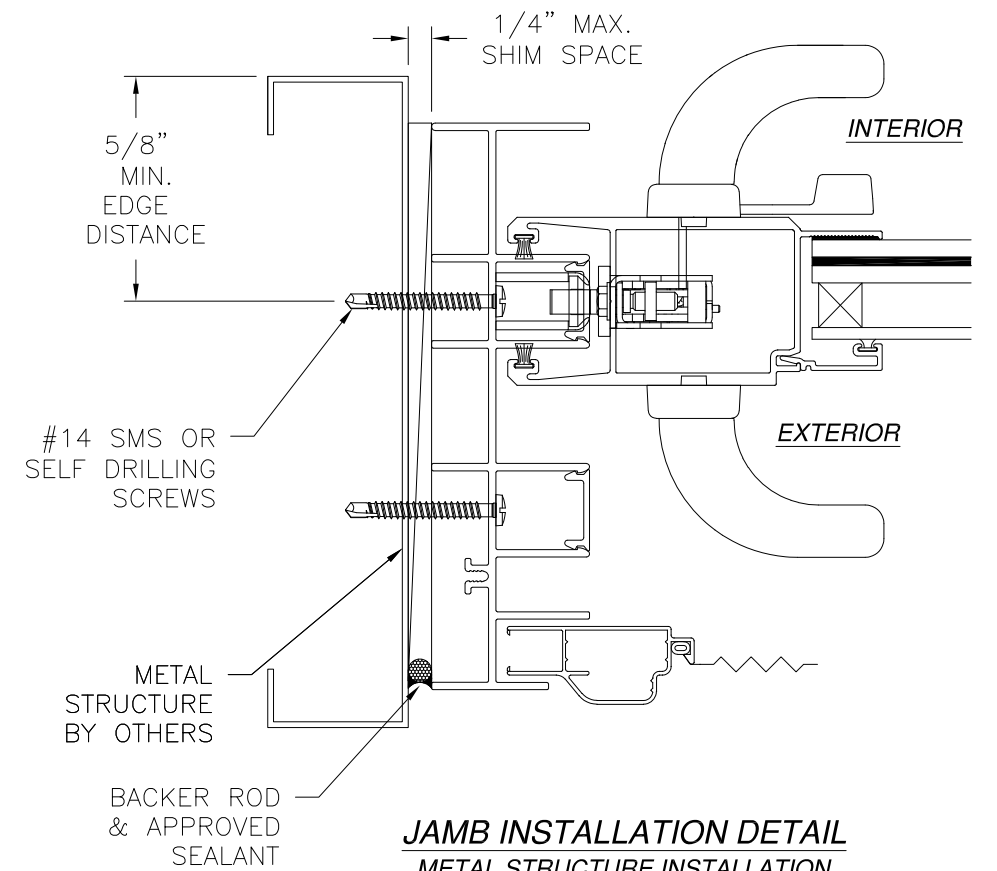
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

NOTES:

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JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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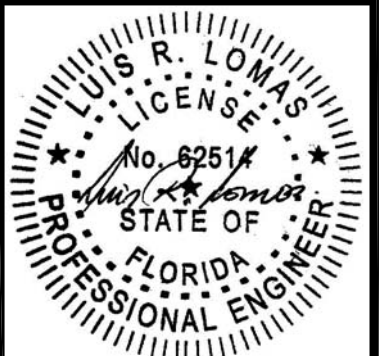
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2 TRACK FINLESS INSTALLATION DETAILS

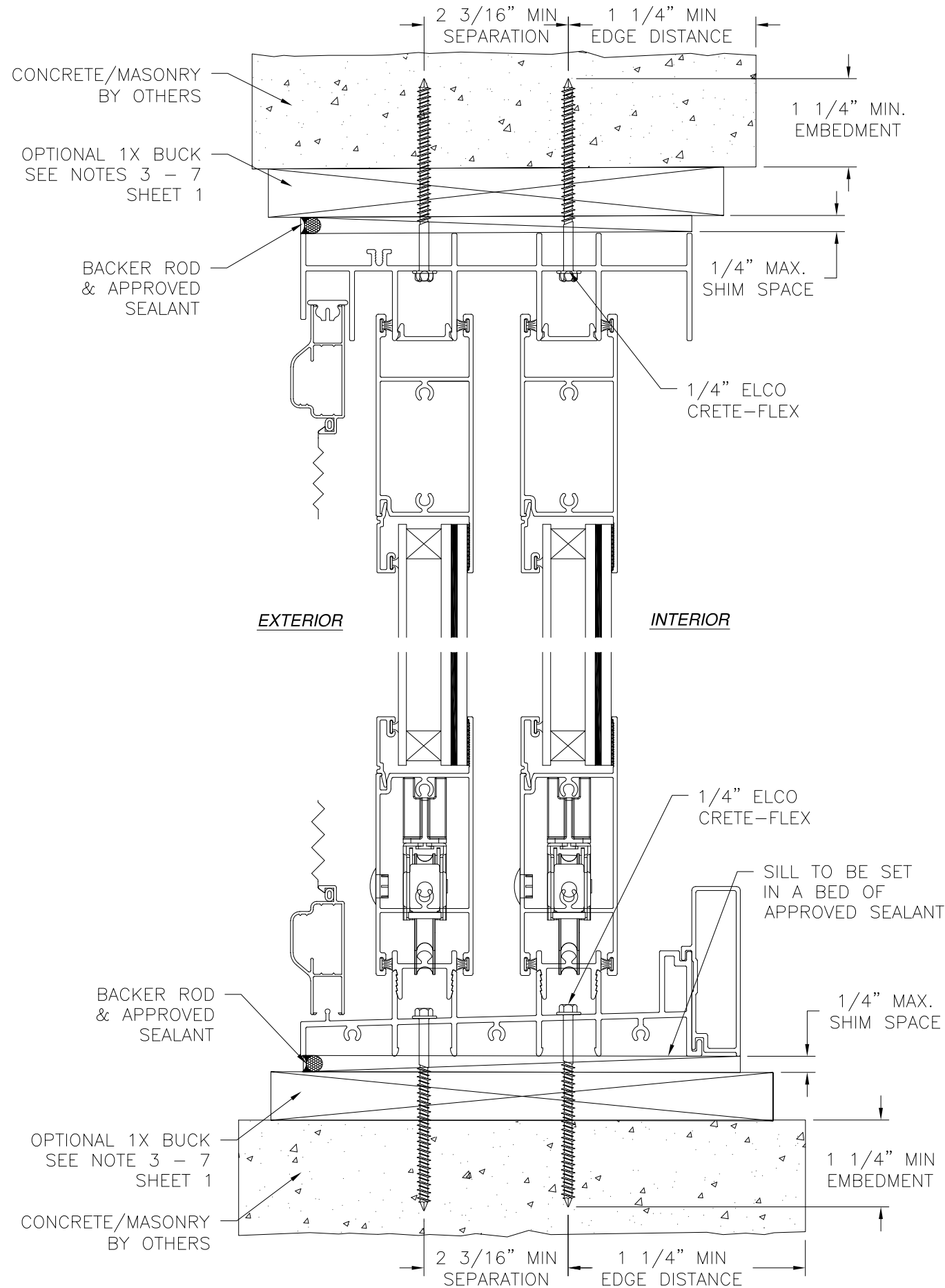
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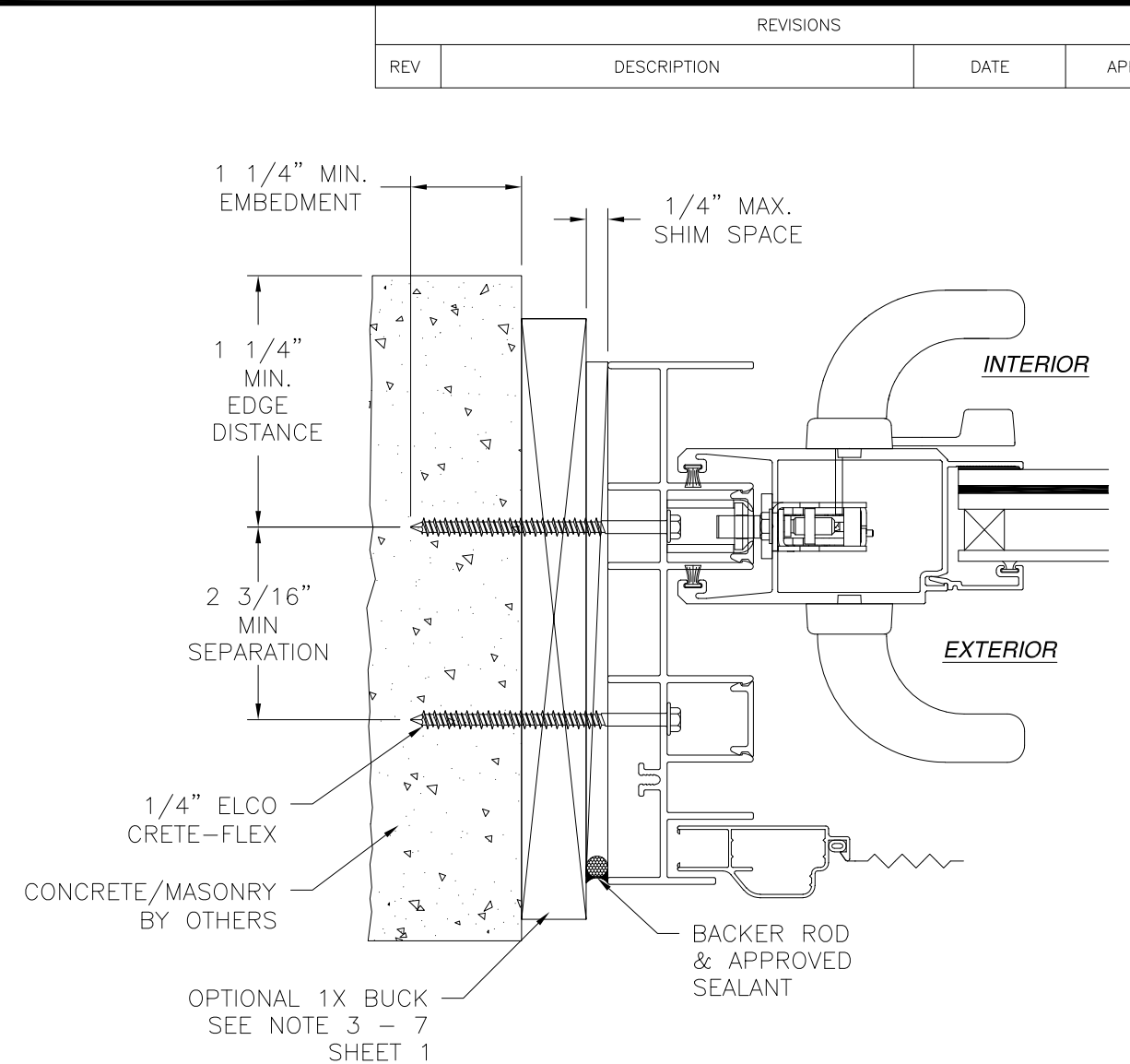
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



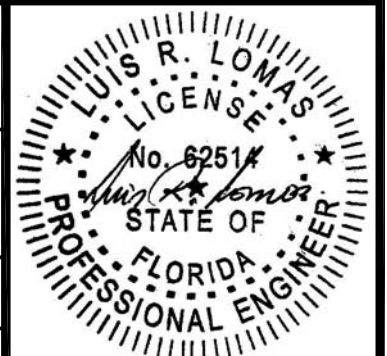
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

NOTES:

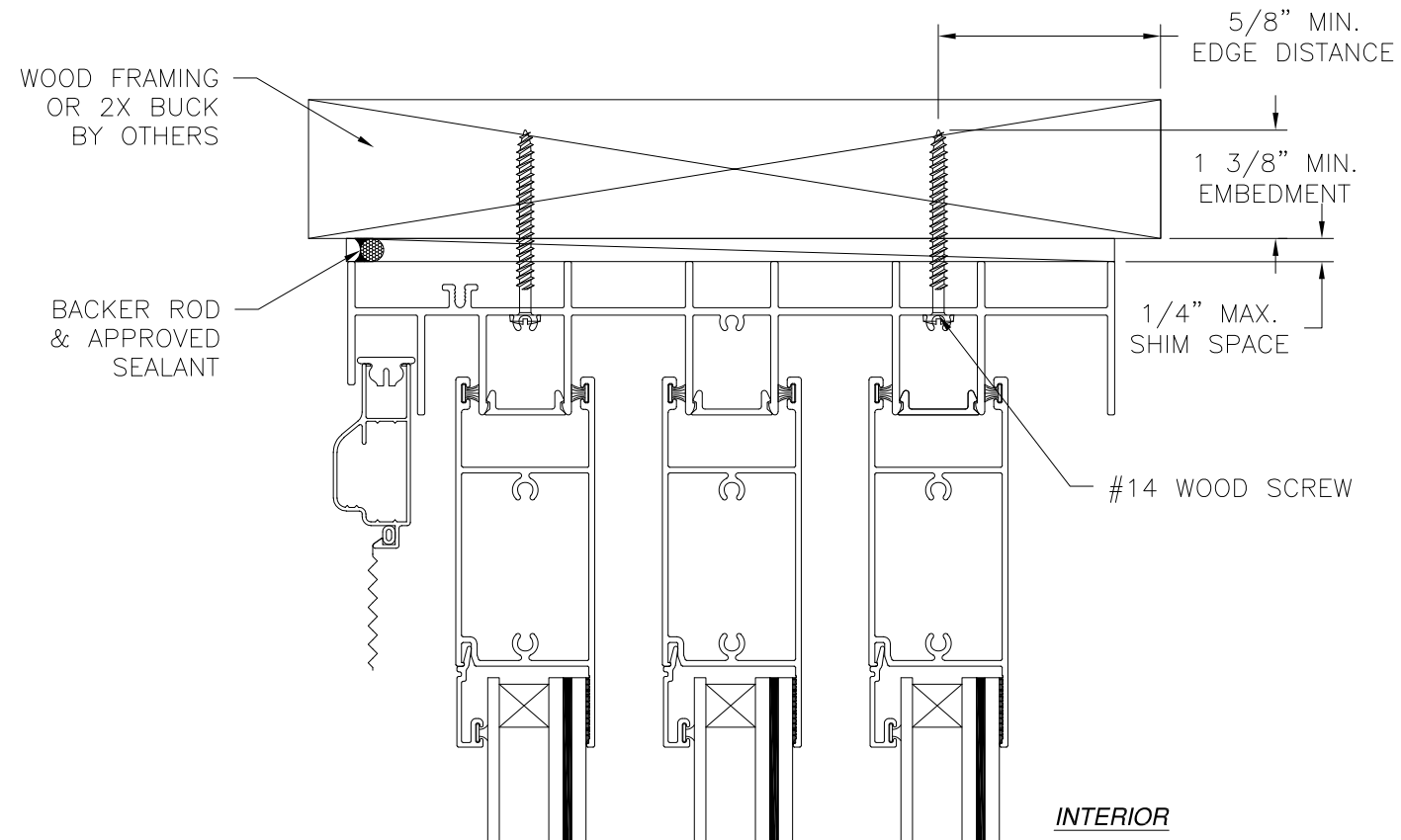
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 10/11/2018

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 2 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV -
SCALE NTS	DATE 09/19/18	SHEET 9 OF 28
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

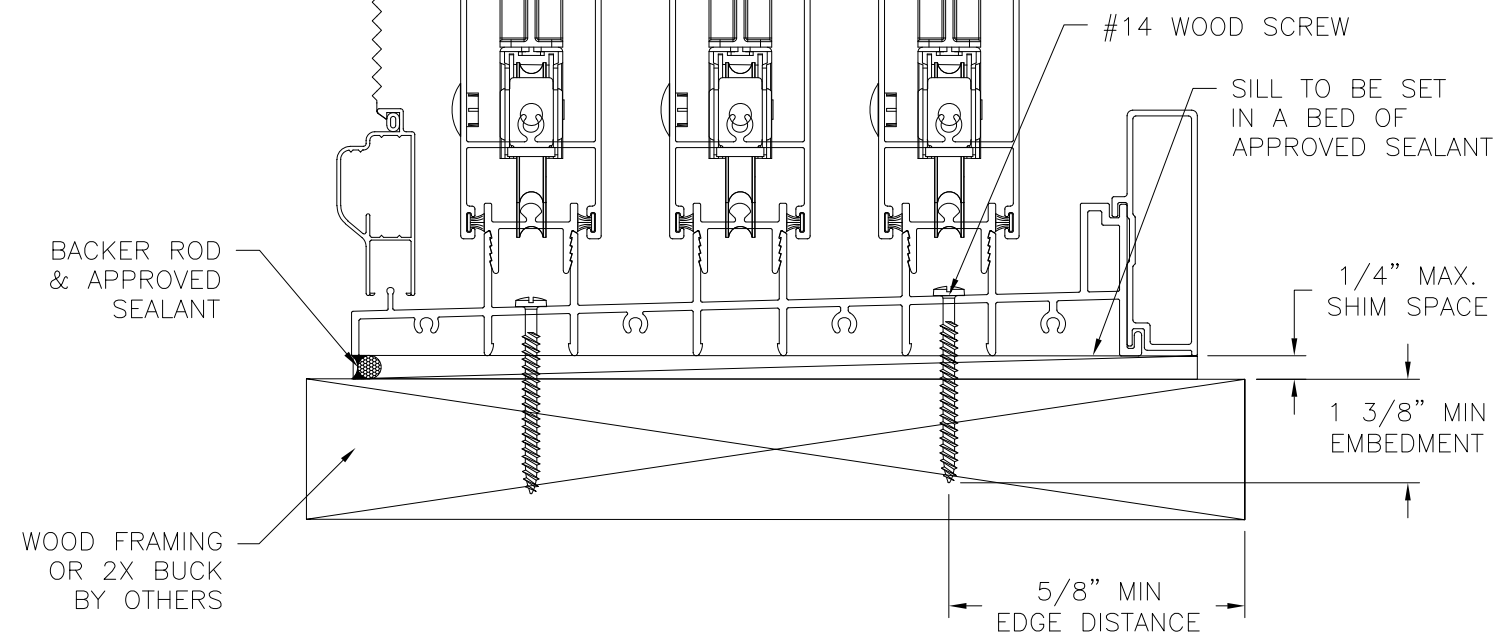


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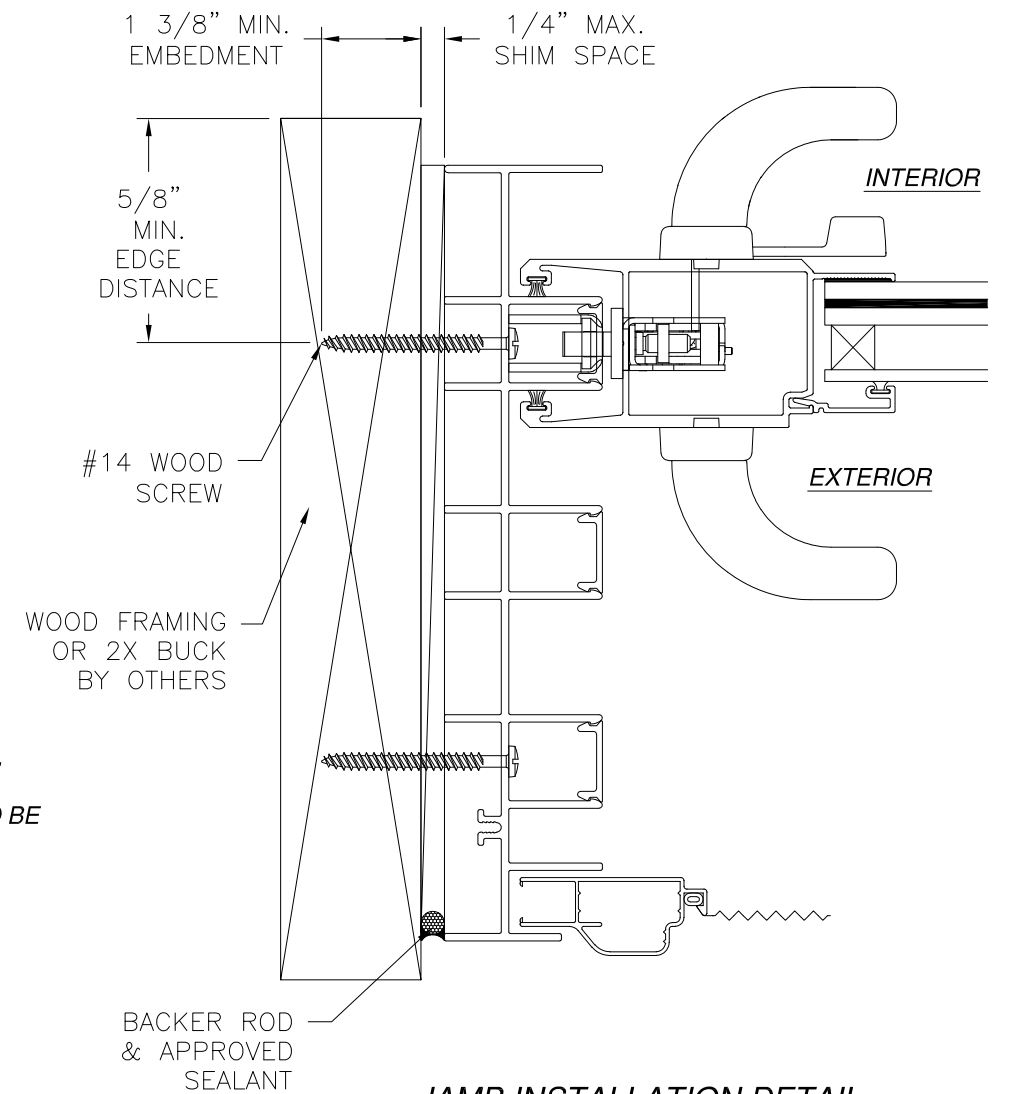
INTERIOR

NOTES:

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



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

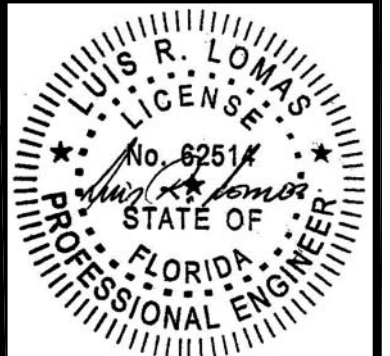
SIGNED: 10/11/2018

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

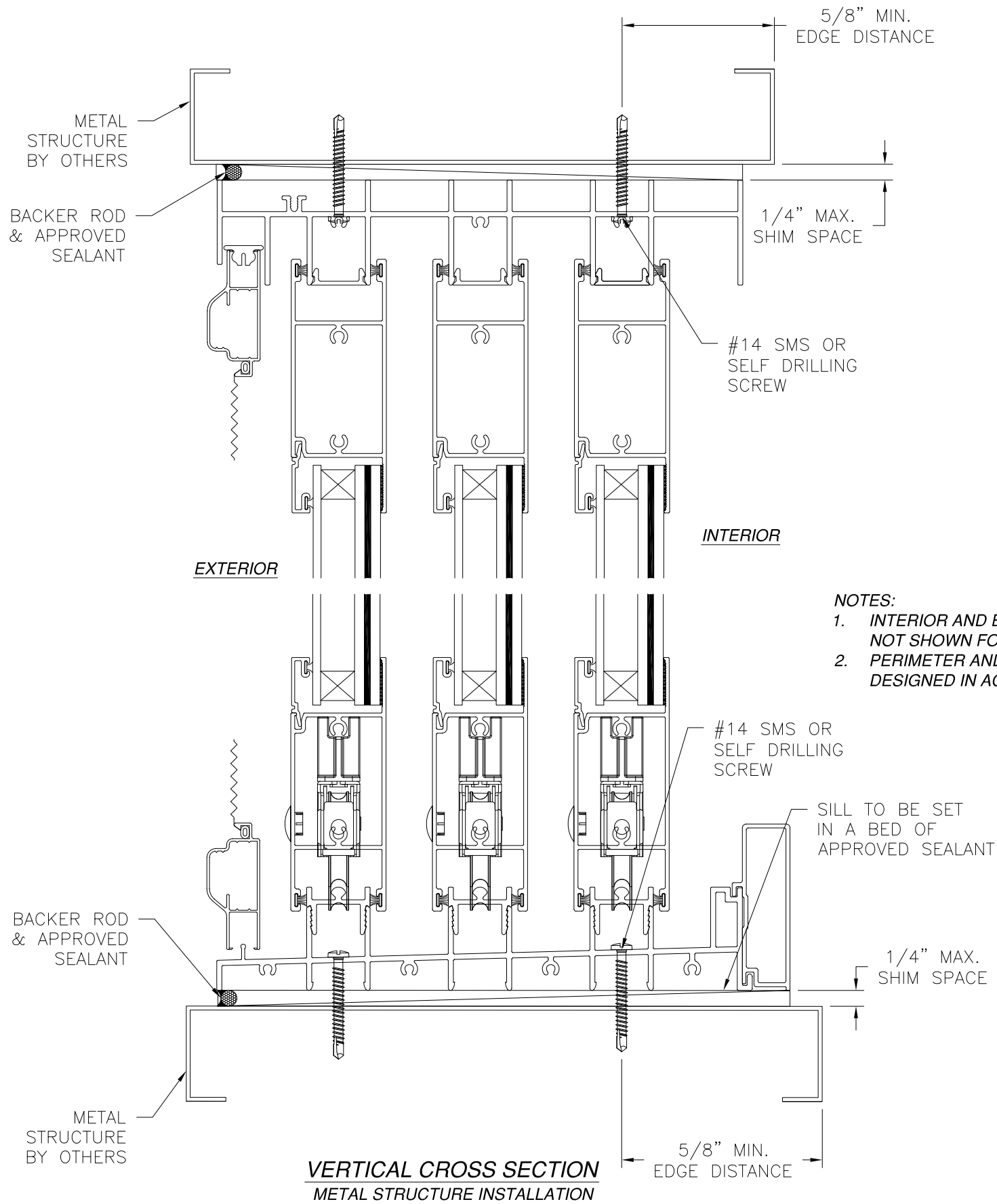
SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
3 TRACK FINLESS INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03321	REV -
SCALE NTS	DATE 09/19/18	SHEET 10 OF 28

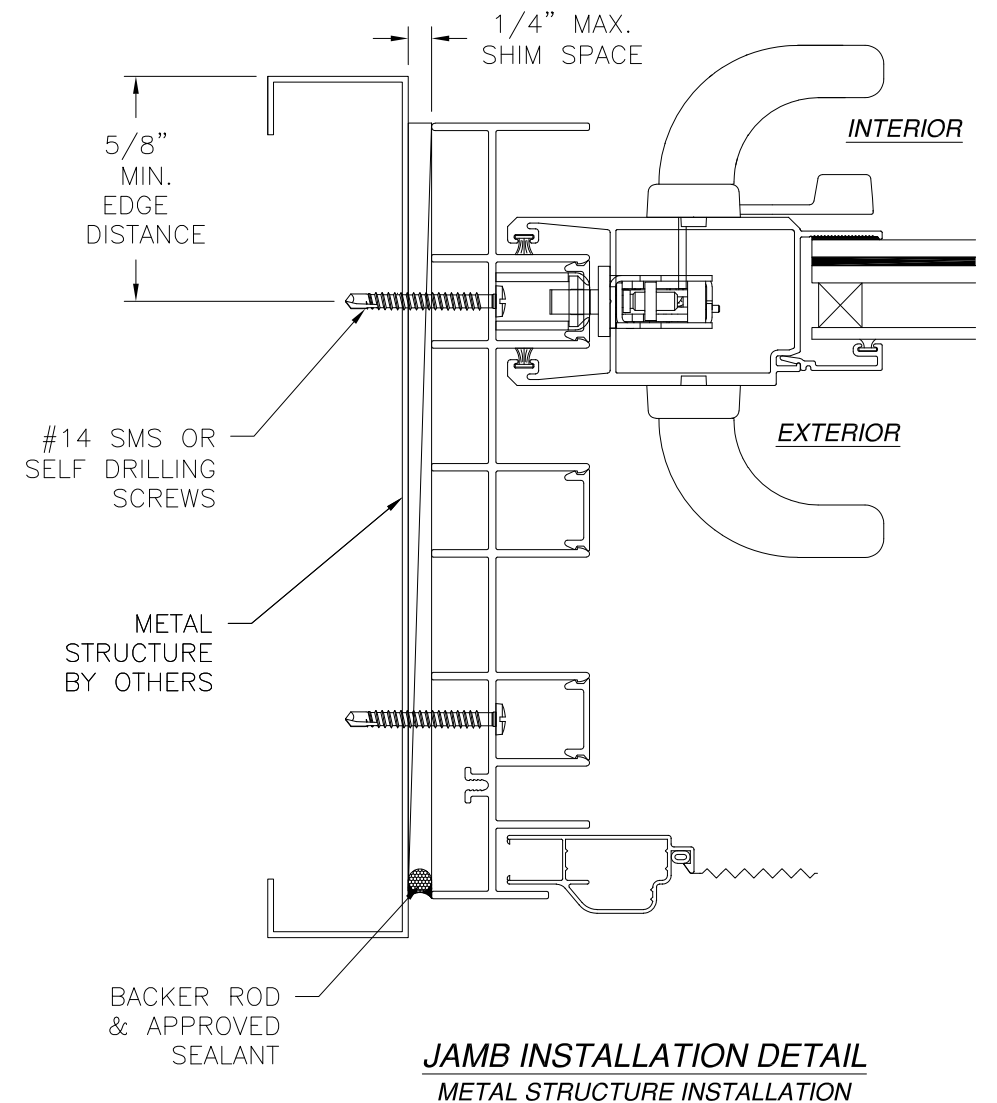
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com



Luis R. Lomas P.E.
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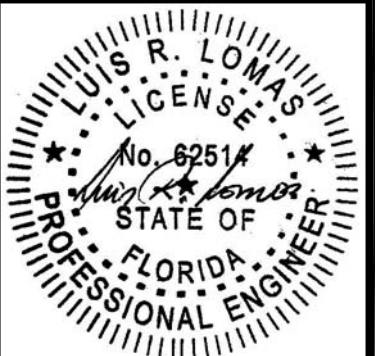
- NOTES:**
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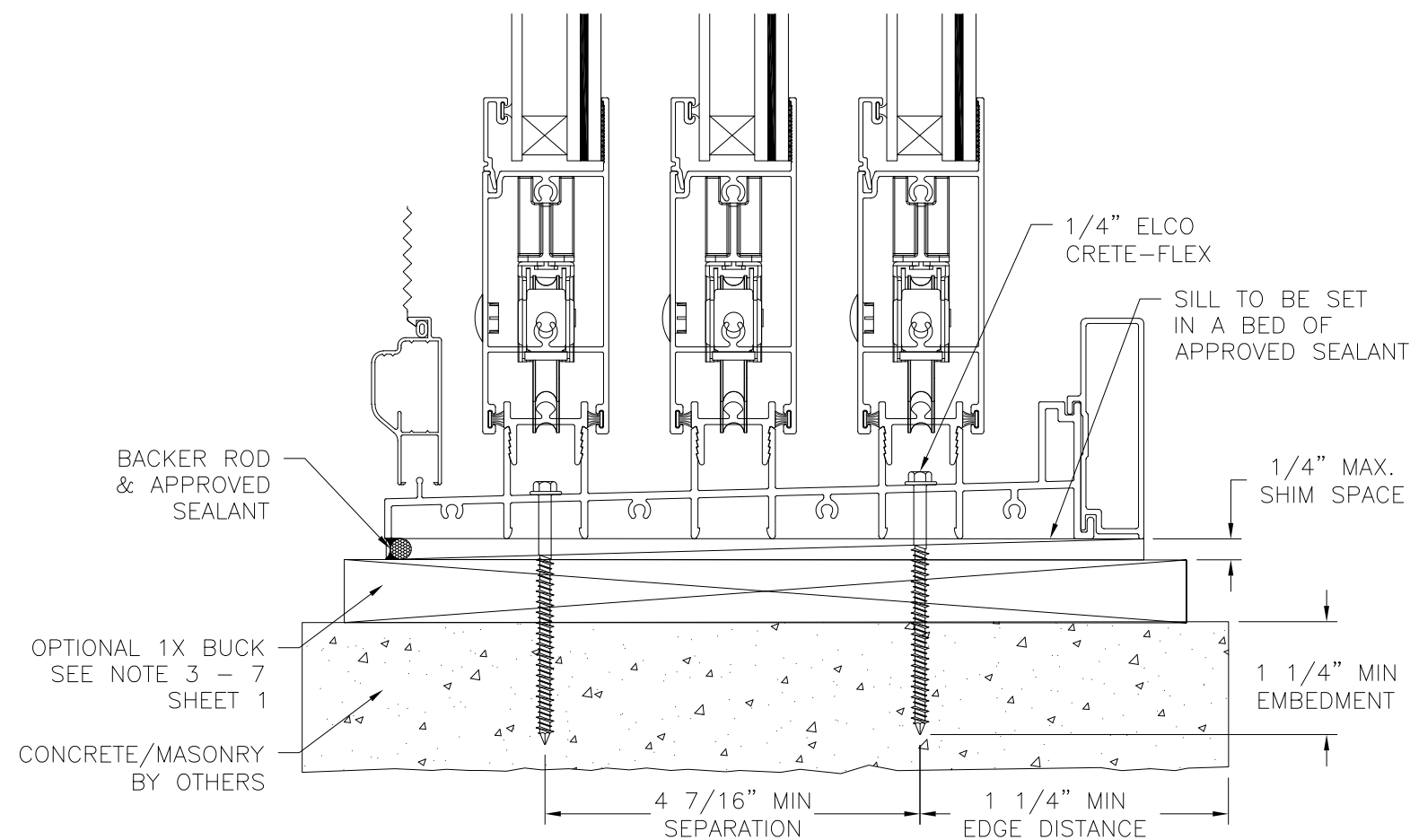
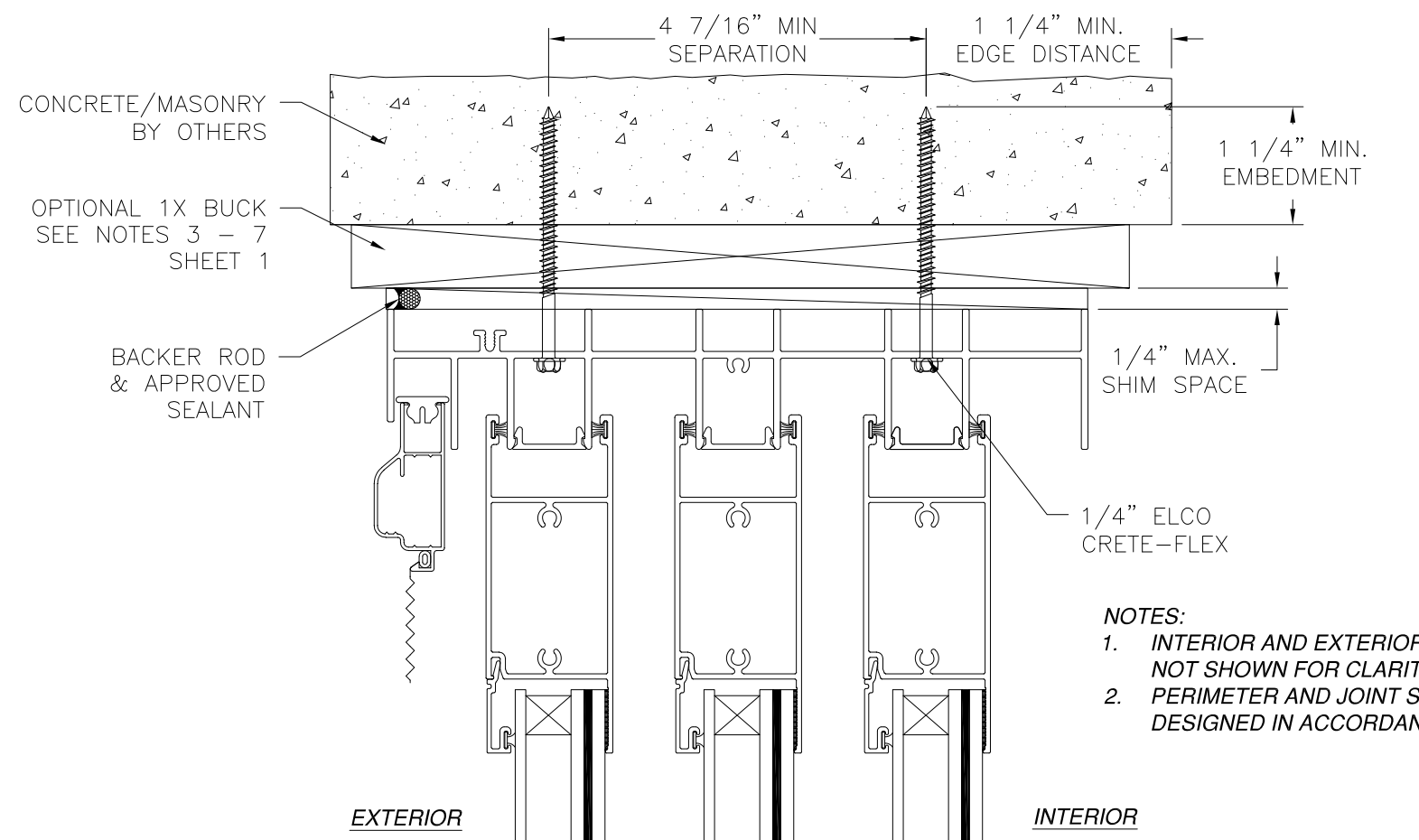
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 3 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV -
SCALE NTS	DATE 09/19/18	SHEET 11 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 10/11/2018

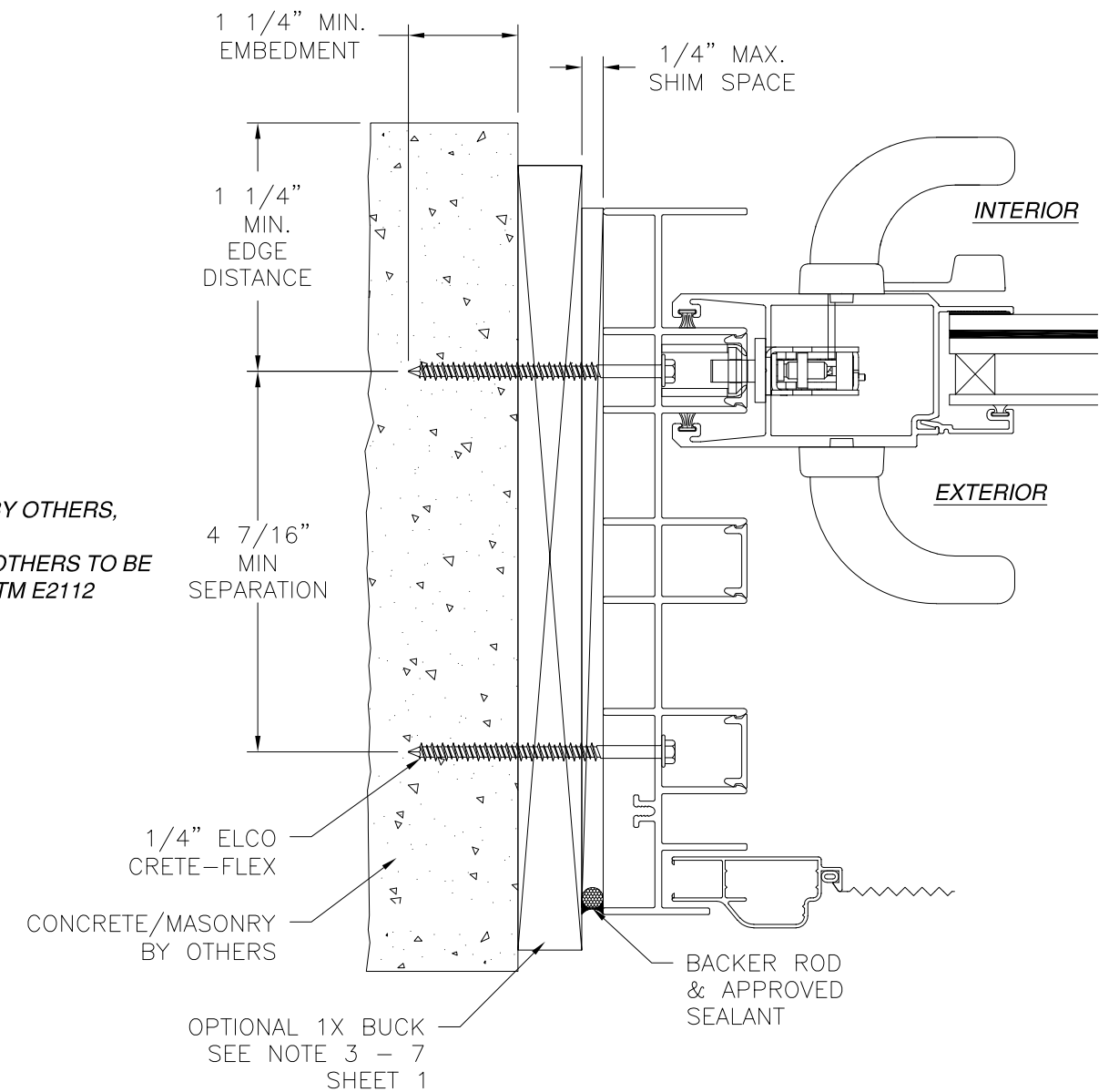


Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



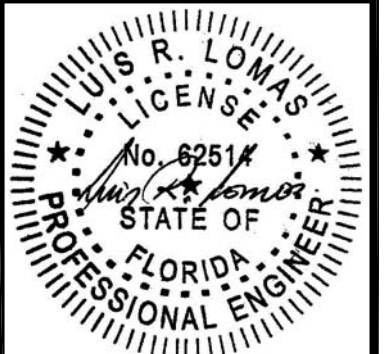
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION SIGNED: 10/11/2018

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

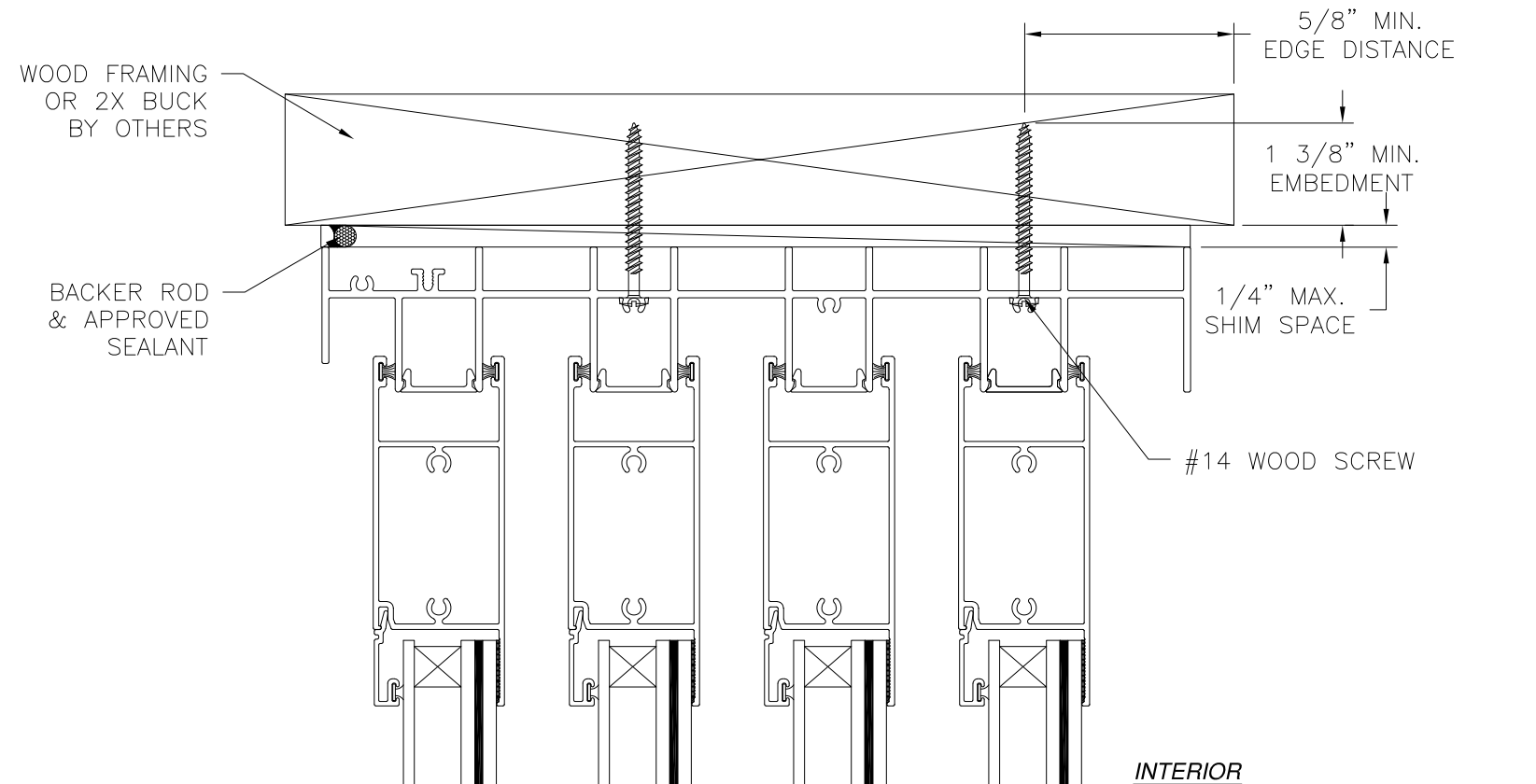
SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
3 TRACK FINLESS INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03321	REV -
SCALE NTS	DATE 09/19/18	SHEET 12 OF 28

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



EXTERIOR

INTERIOR

BACKER ROD
& APPROVED
SEALANT

WOOD FRAMING
OR 2X BUCK
BY OTHERS

VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

NOTES:

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#14 WOOD SCREW

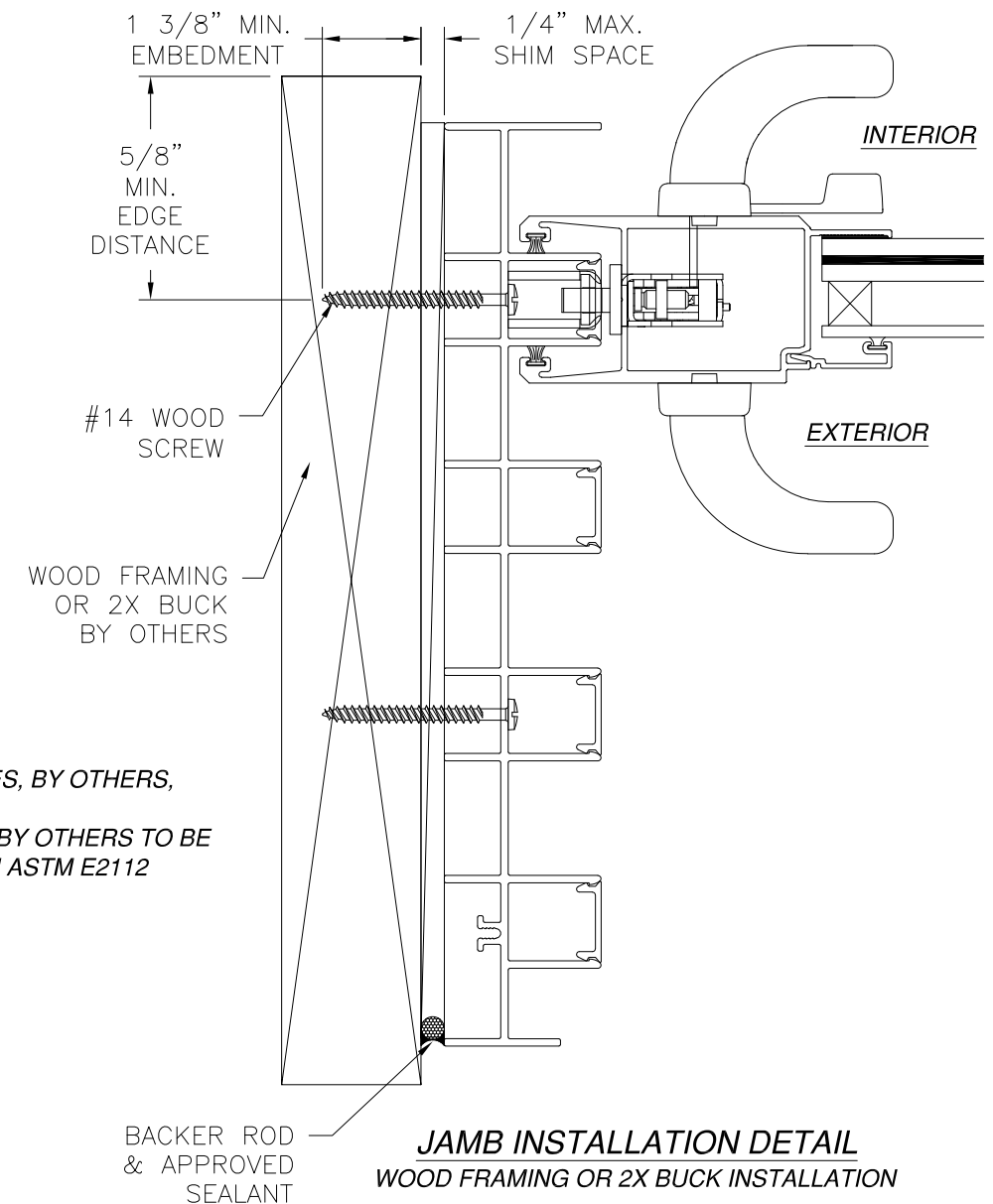
SILL TO BE SET
IN A BED OF
APPROVED SEALANT

1/4" MAX.
SHIM SPACE

1 3/8" MIN
EMBEDMENT

5/8" MIN
EDGE DISTANCE

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

SIGNED: 10/11/2018

MI WINDOWS AND DOORS LLC

650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
4 TRACK FINLESS INSTALLATION DETAILS

DRAWN:
A.R.

DWG NO.

08-03321

REV
-

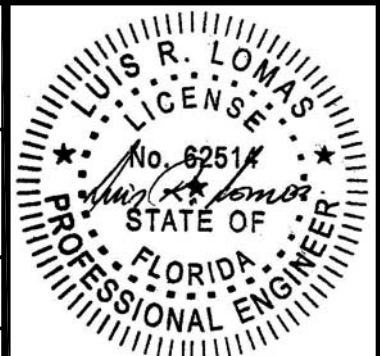
SCALE NTS

DATE

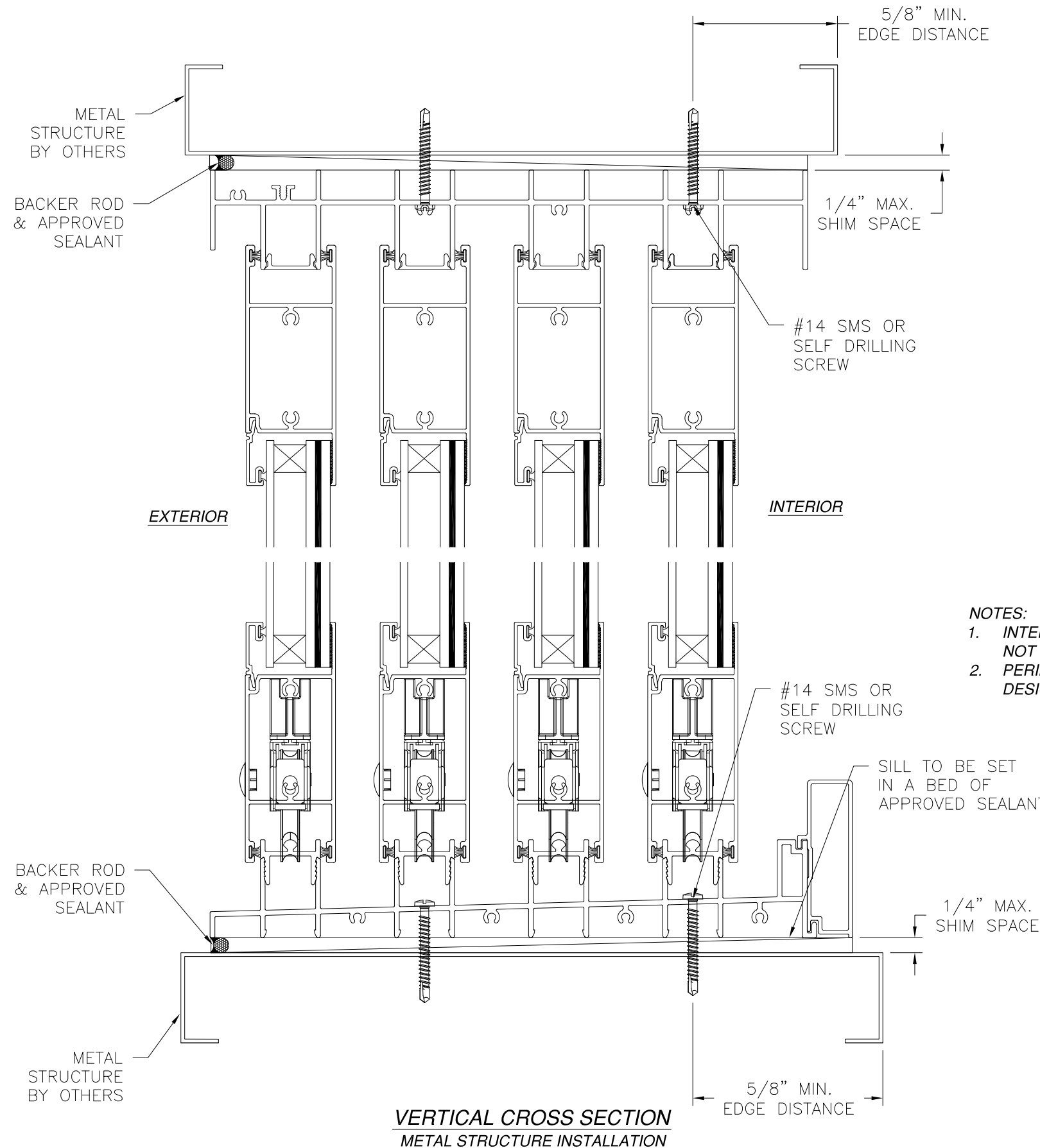
09/19/18

SHEET 13 OF 28

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



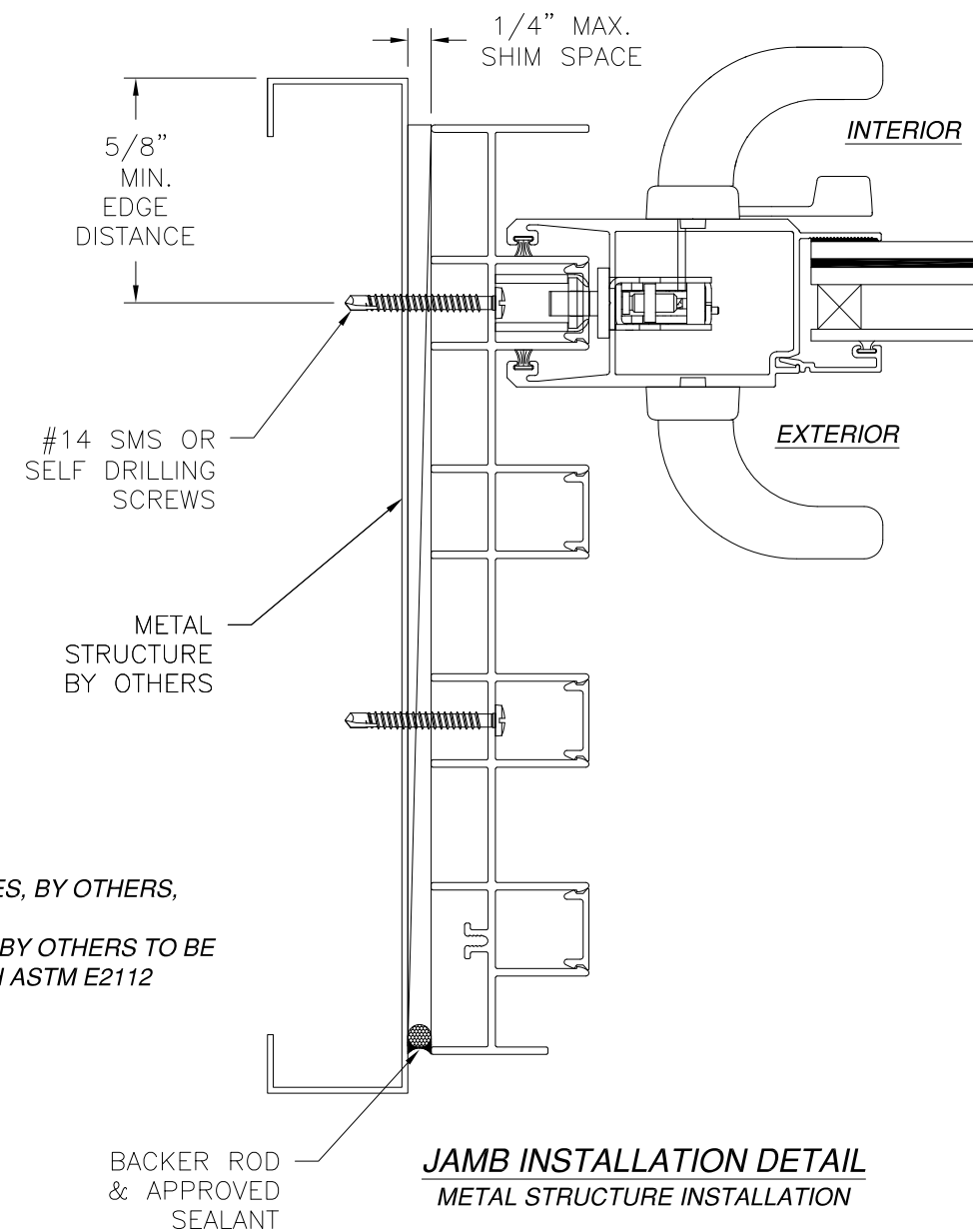
Luis R. Lomas P.E.
FL No.: 62514



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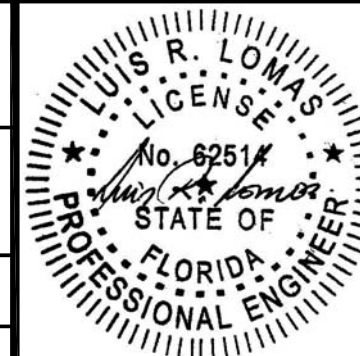
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

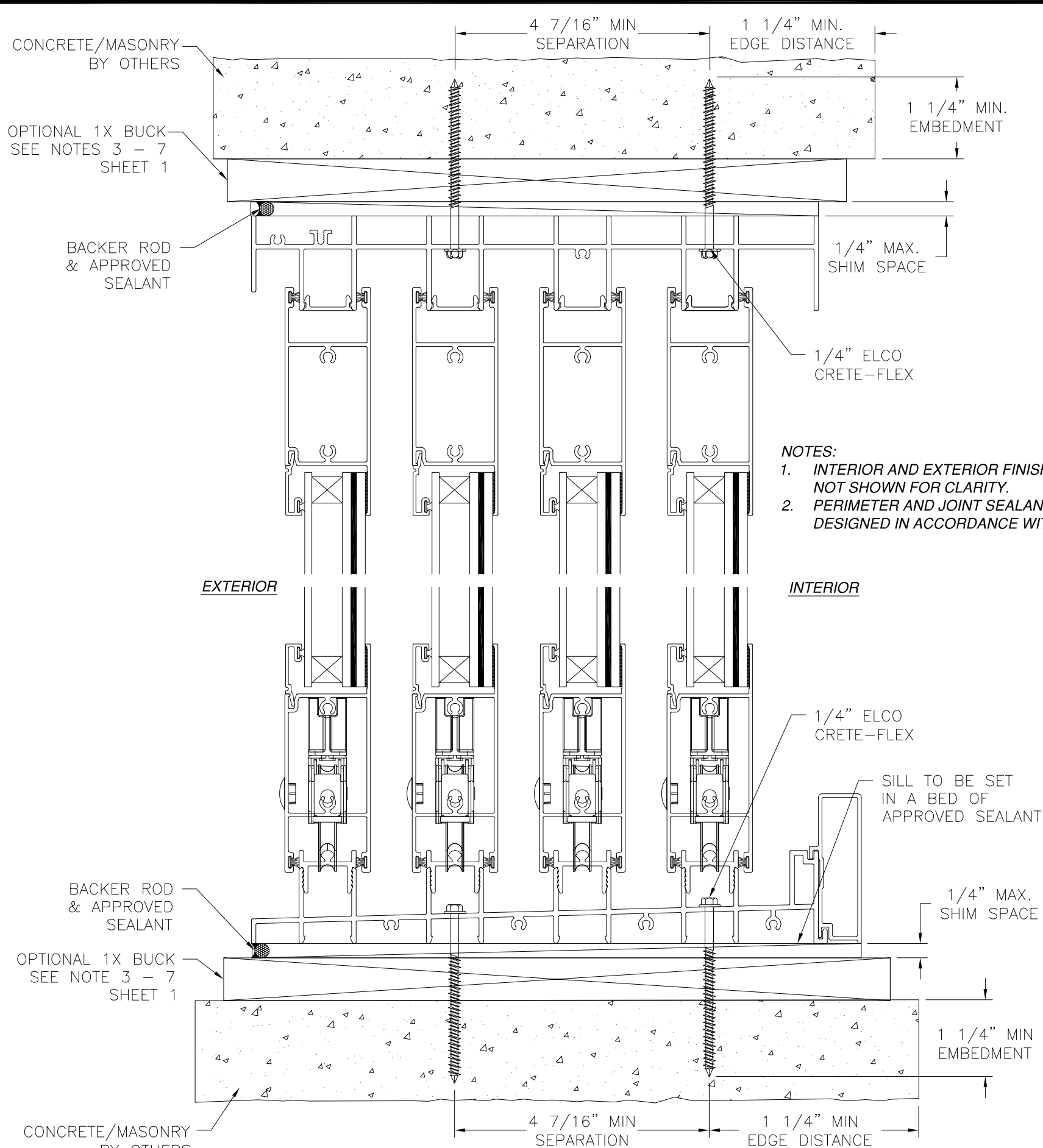


MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 4 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV -
SCALE NTS	DATE 09/19/18	SHEET 14 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 10/11/2018

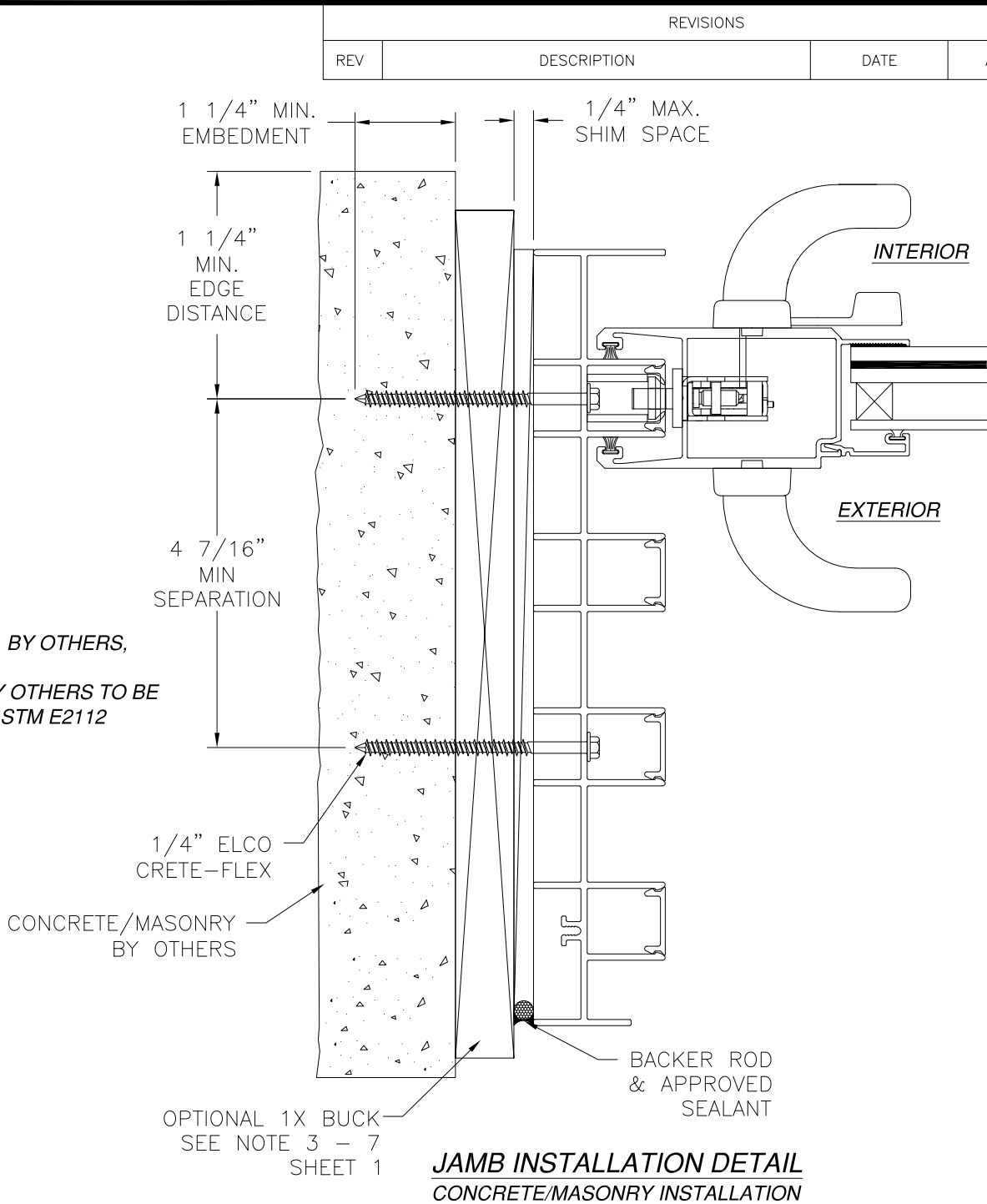


Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

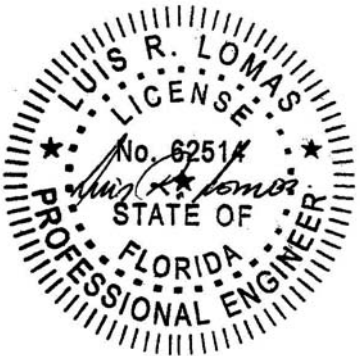
- NOTES:**
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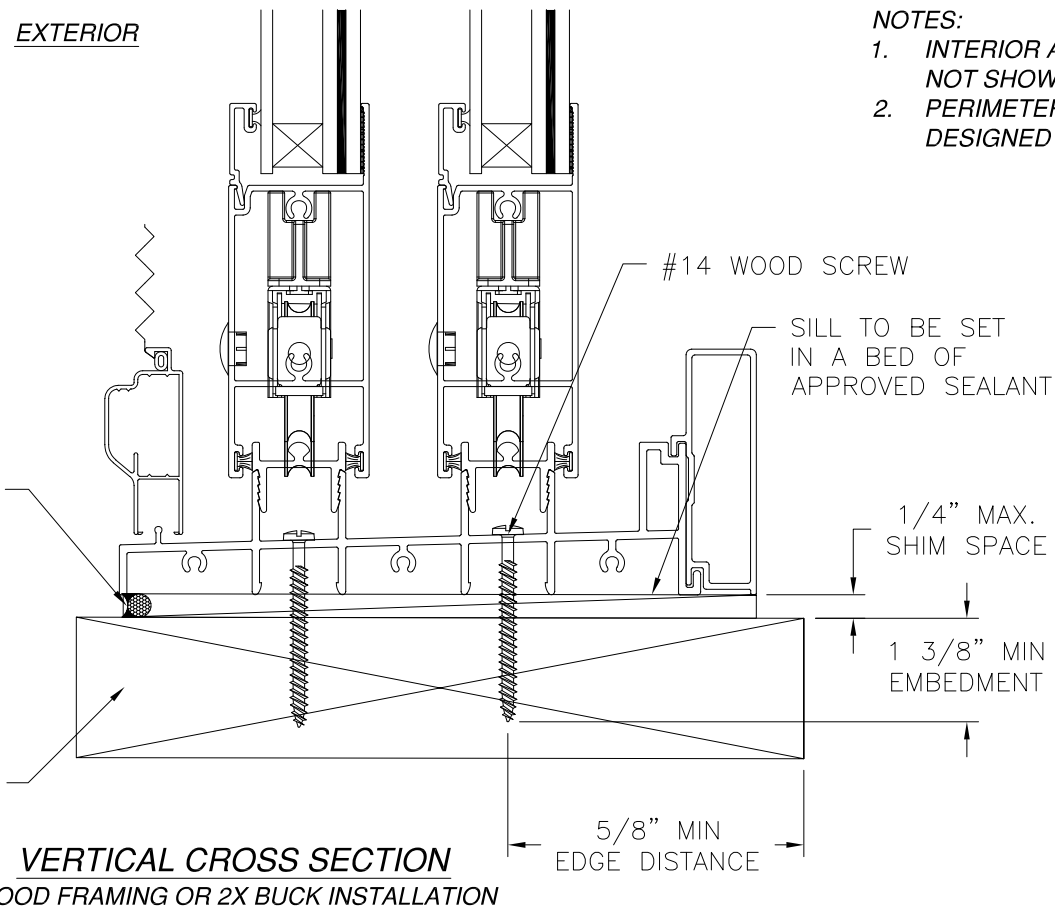
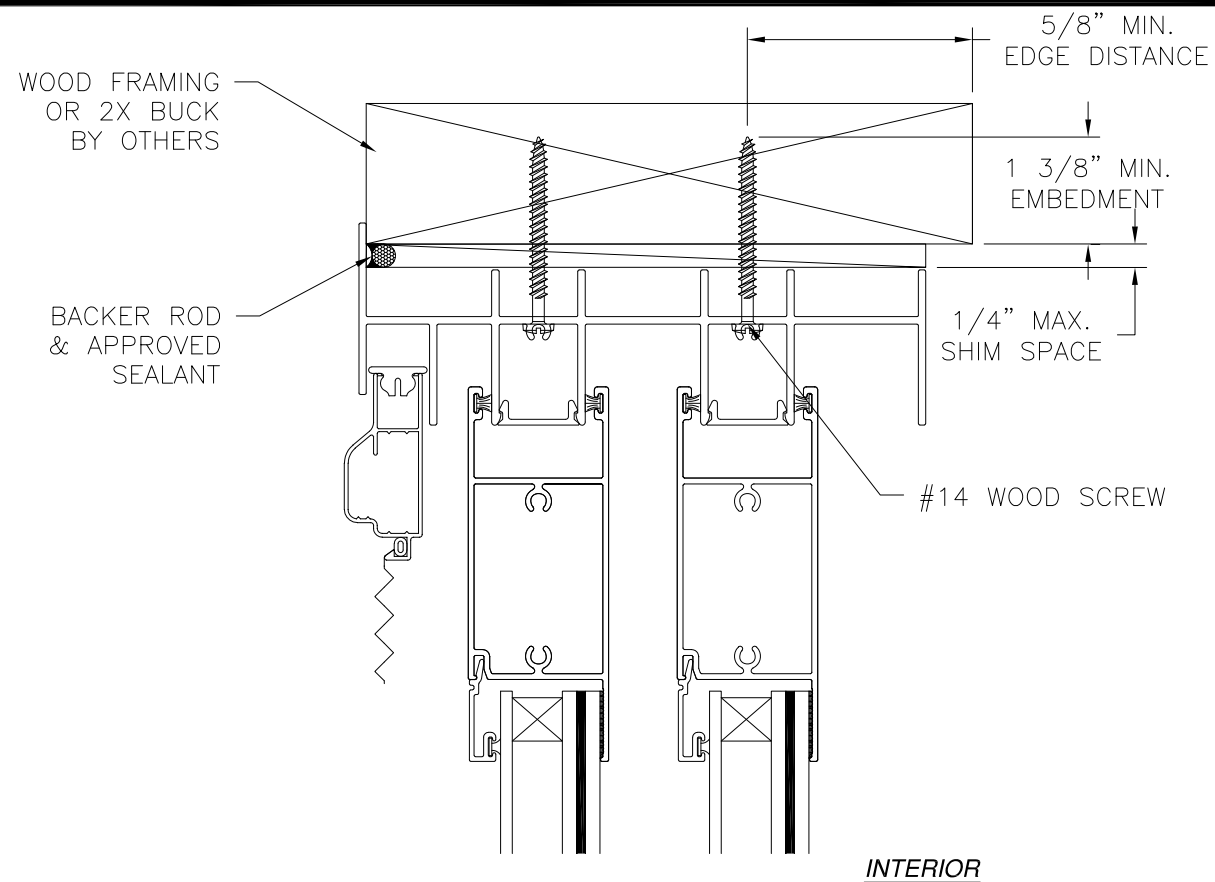
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

SIGNED: 10/11/2018

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 4 TRACK FINLESS INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV -
SCALE NTS	DATE 09/19/18	SHEET 15 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

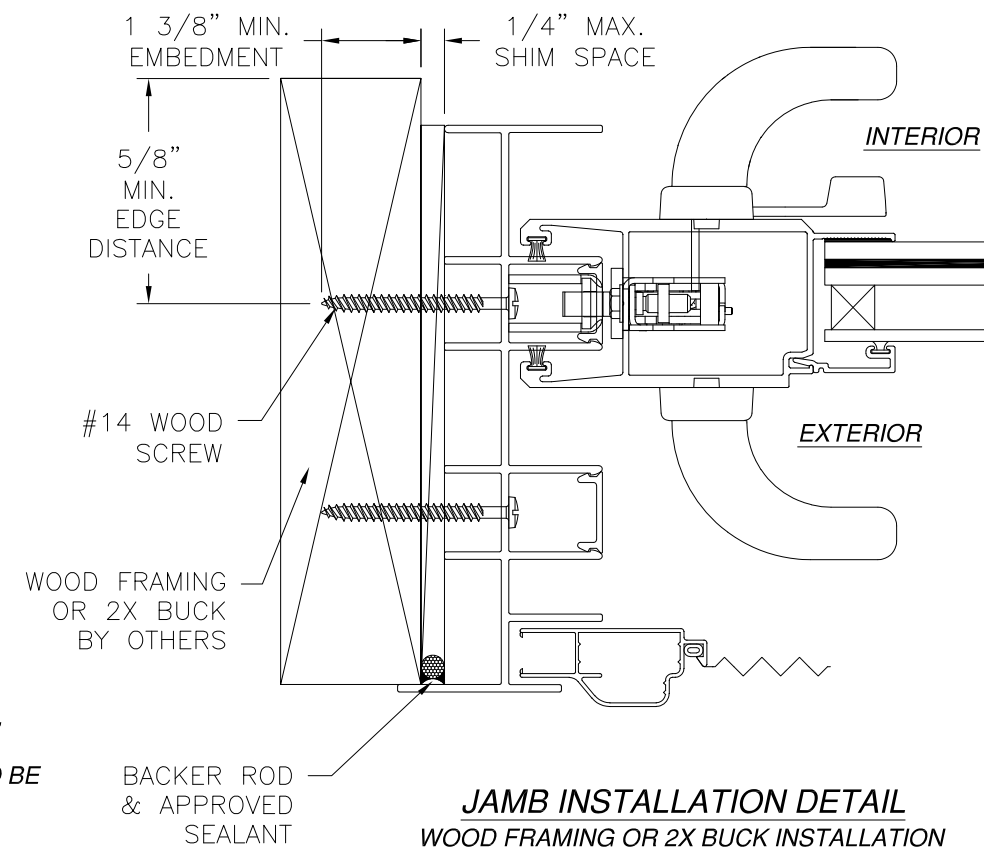


Luis R. Lomas P.E.
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



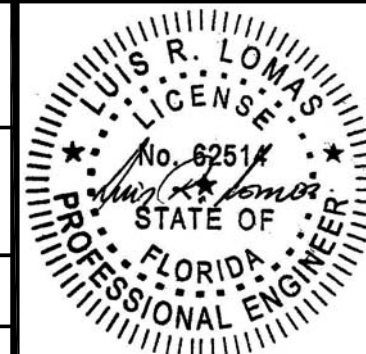
SIGNED: 10/11/2018

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

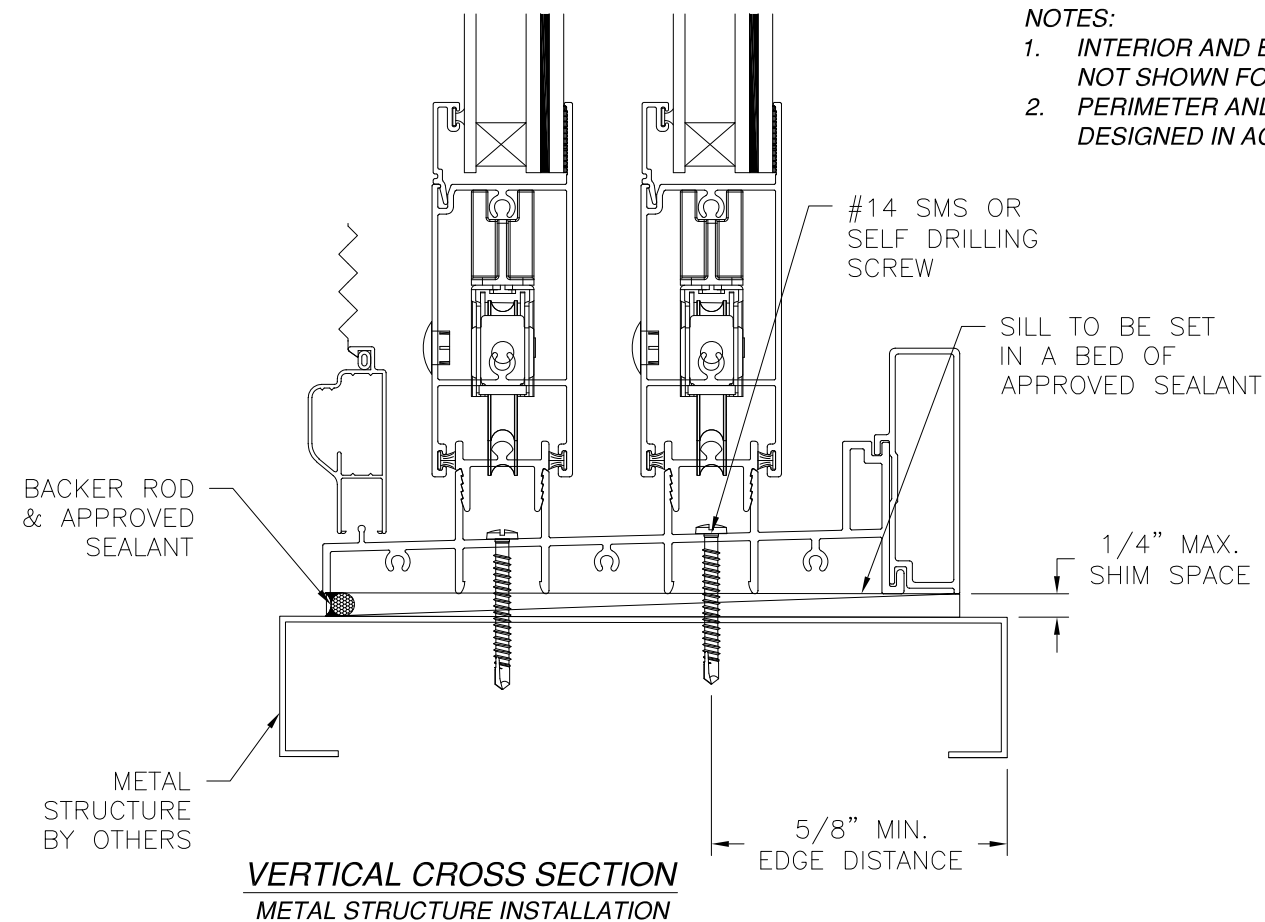
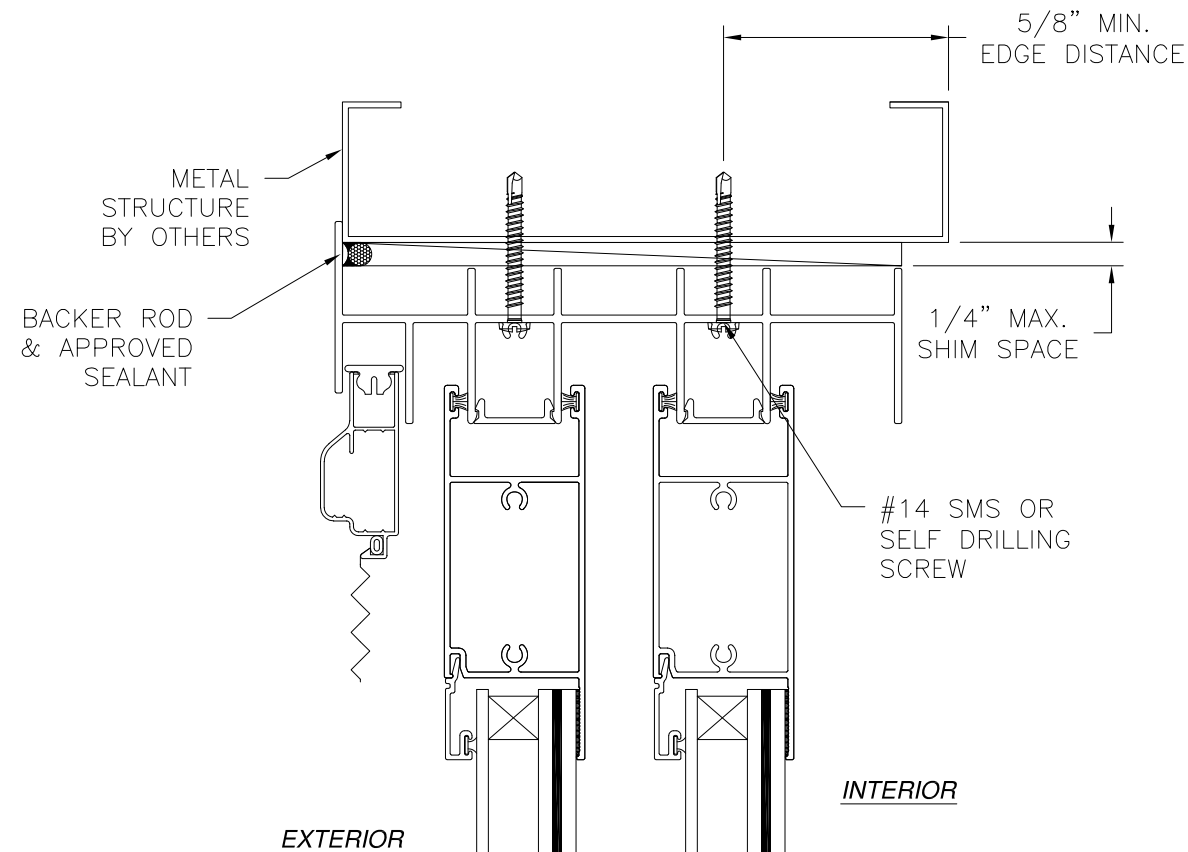
SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
2 TRACK FLANGE INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03321	REV -
SCALE NTS	DATE 09/19/18	SHEET 16 OF 28

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

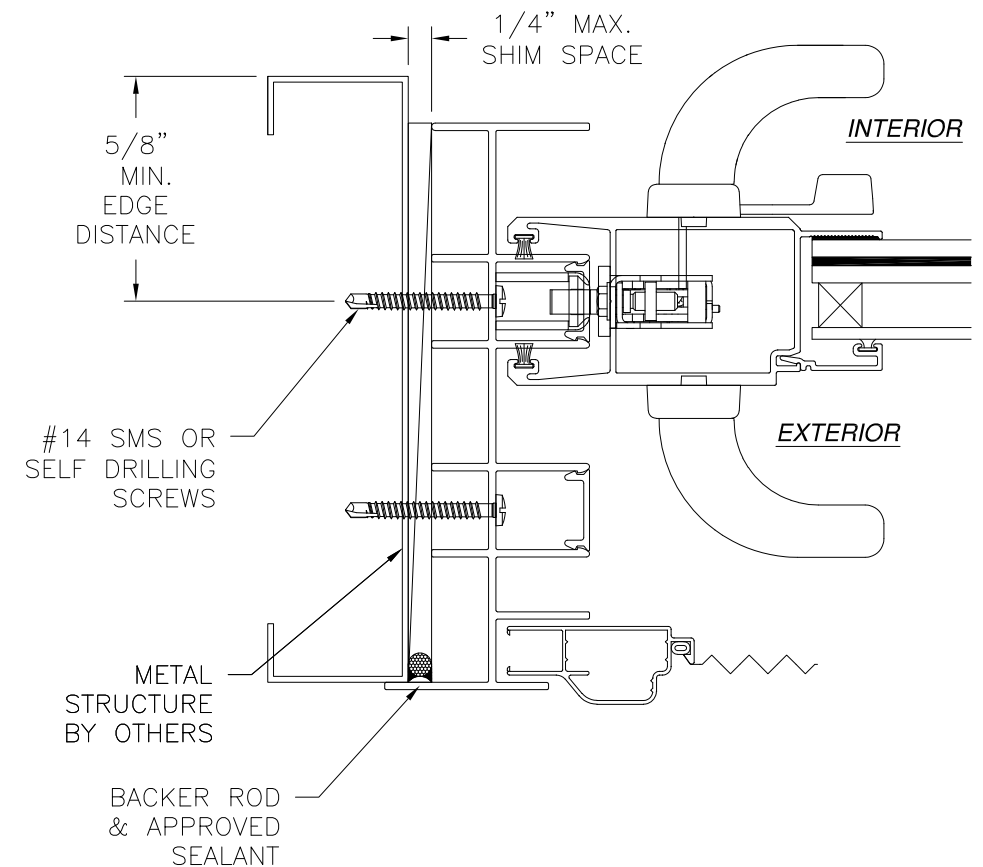


Luis R. Lomas P.E.
FL No.: 62514



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JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

SIGNED: 10/11/2018

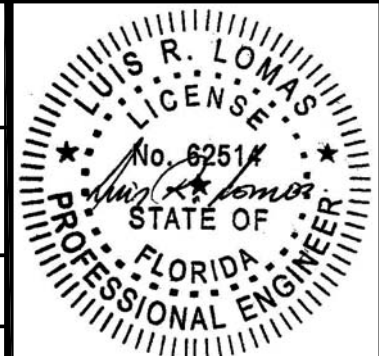
MI WINDOWS AND DOORS LLC

650 WEST MARKET STREET
GRATZ, PA 17030

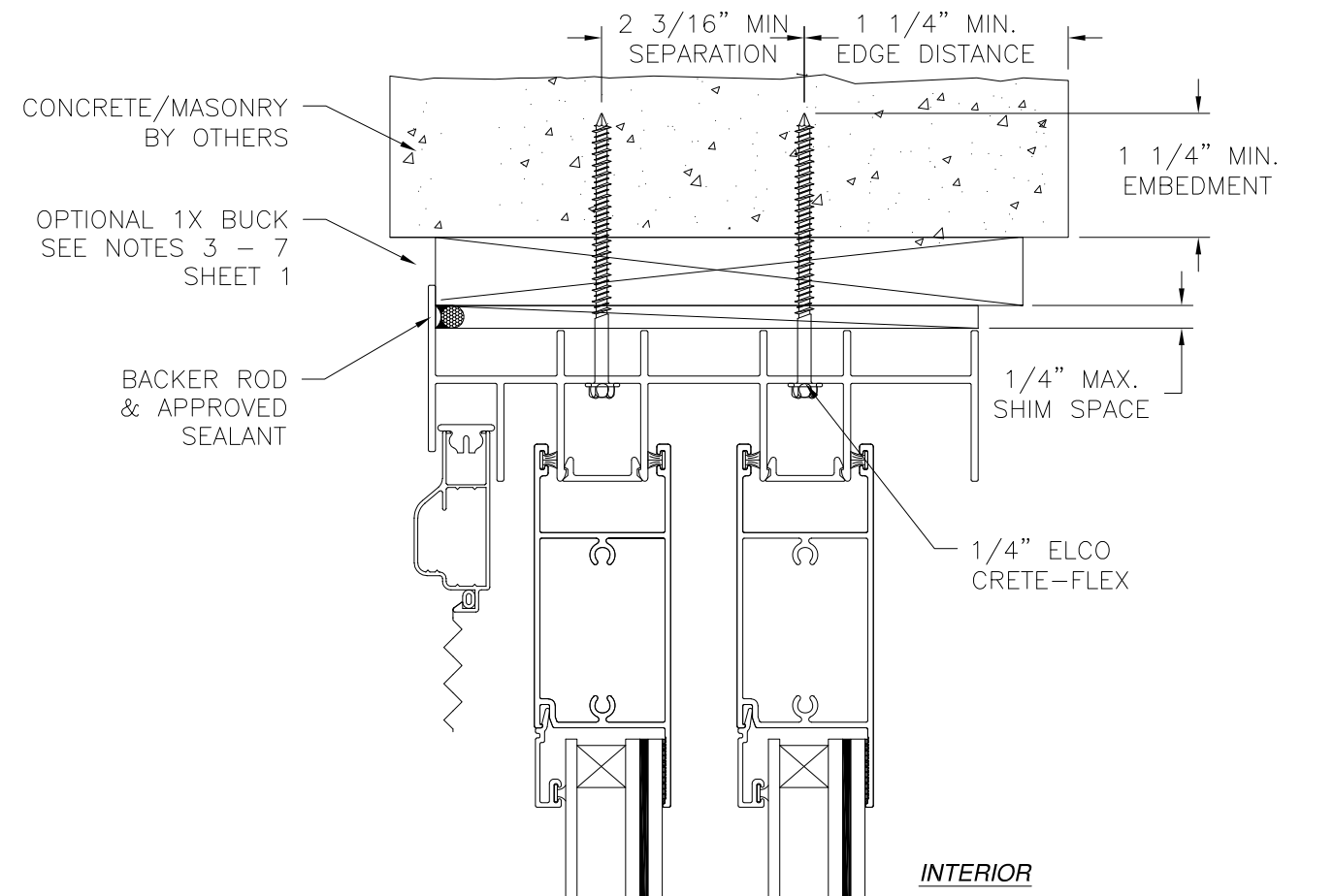
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NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
2 TRACK FLANGE INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03321	REV -
SCALE NTS	DATE 09/19/18	SHEET 17 OF 28

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

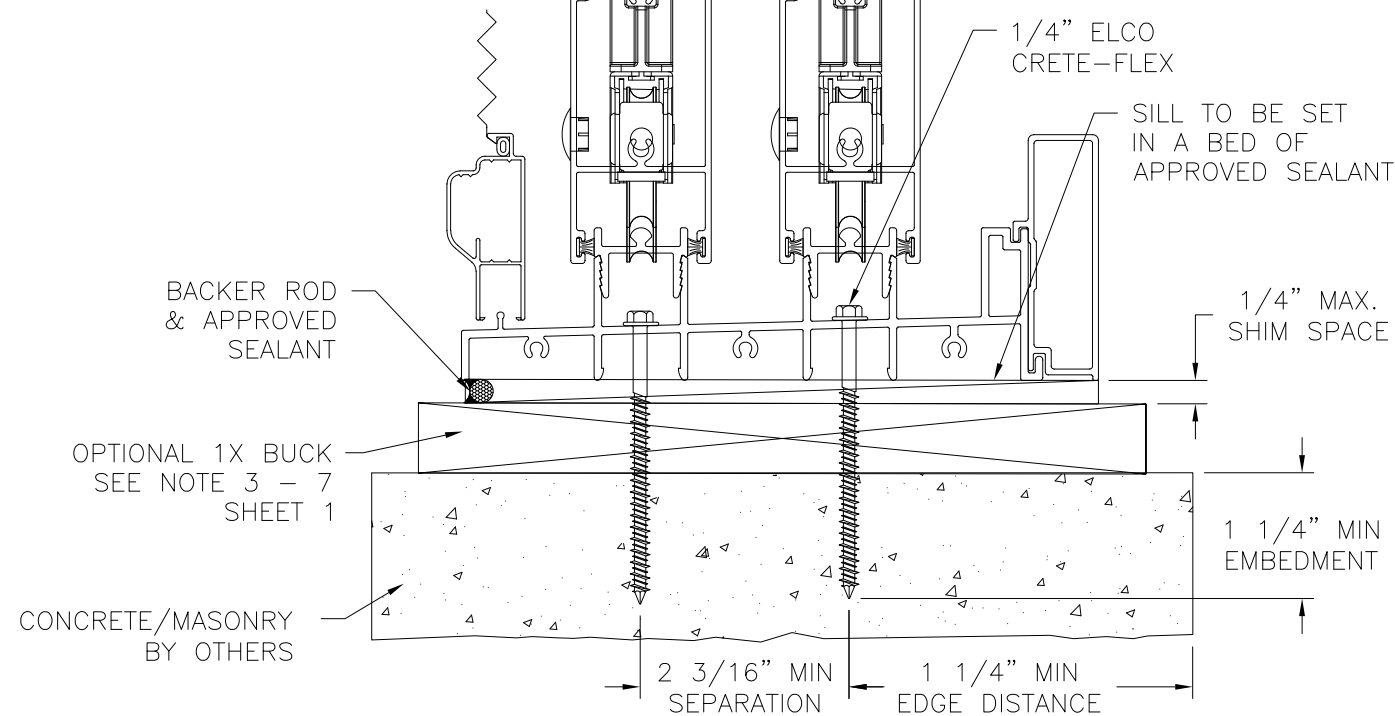


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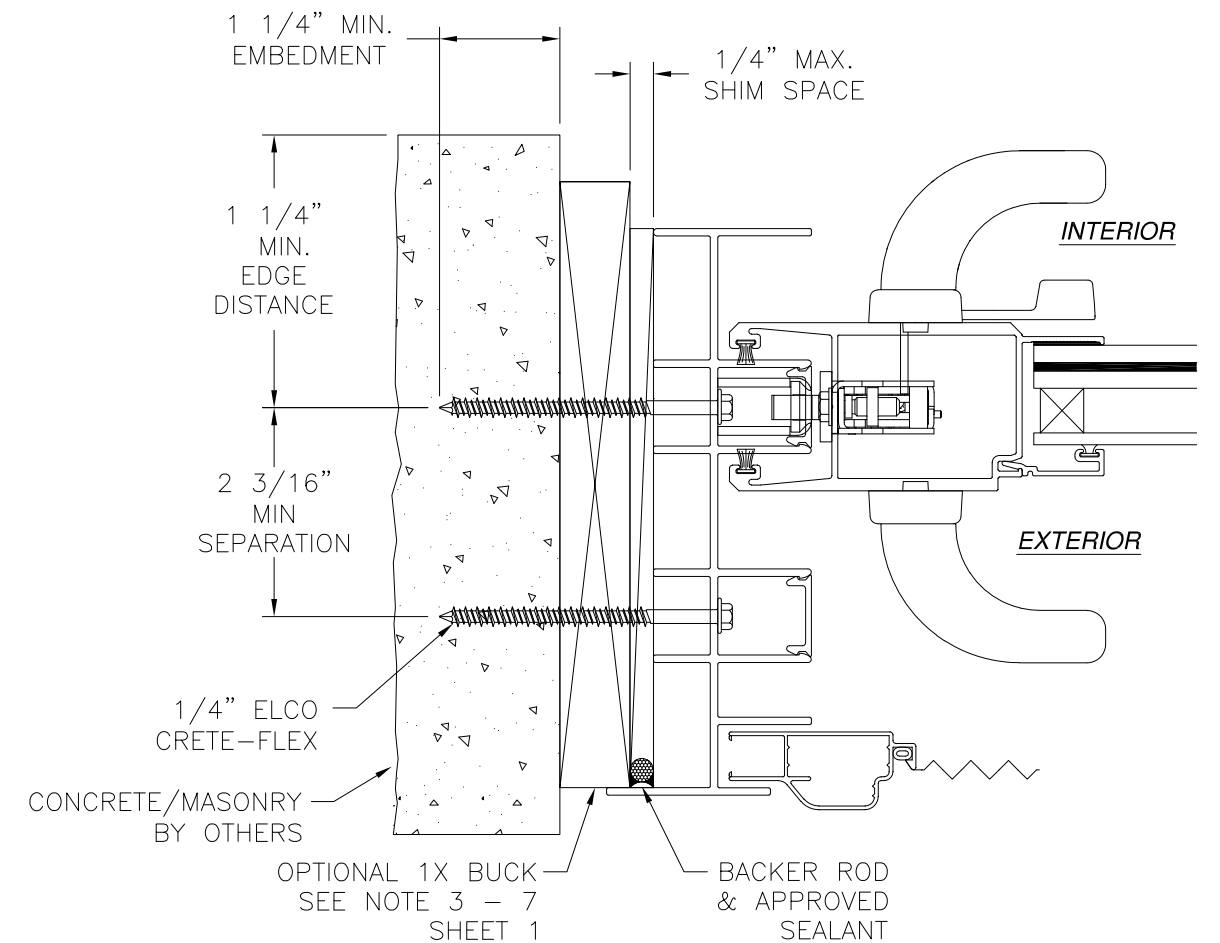
EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



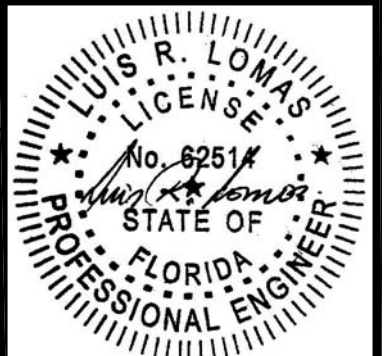
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

NOTES:

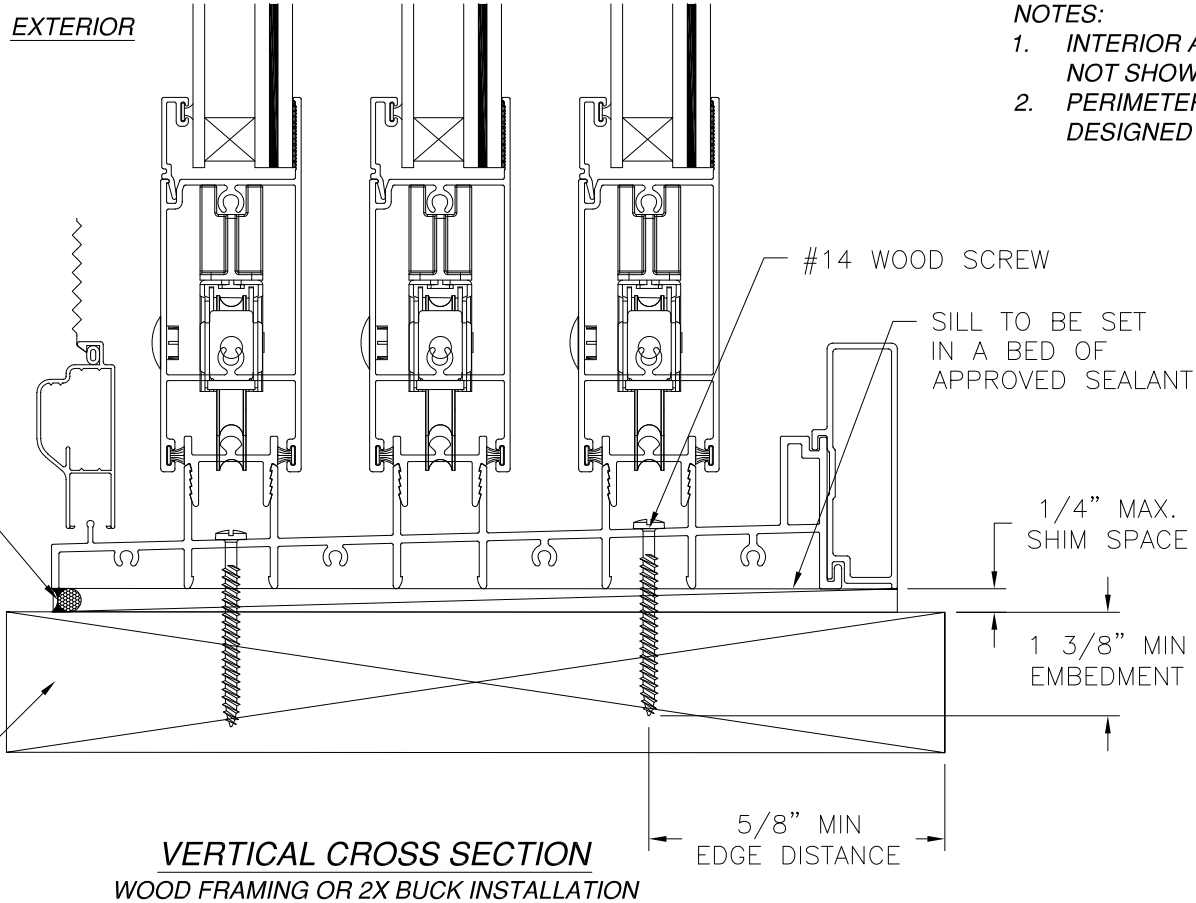
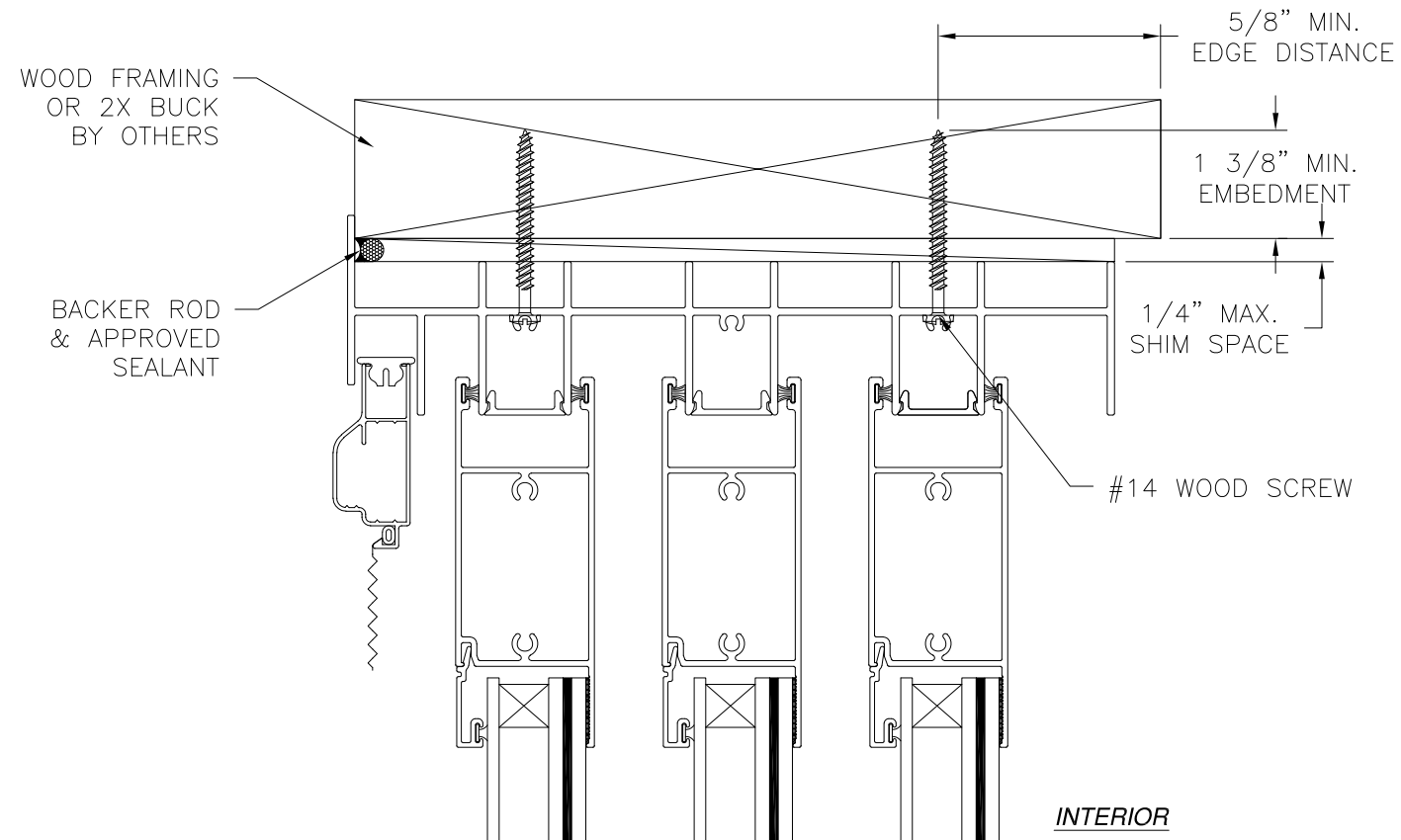
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SIGNED: 10/11/2018

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 2 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV -
SCALE NTS	DATE 09/19/18	SHEET 18 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



Luis R. Lomas P.E.
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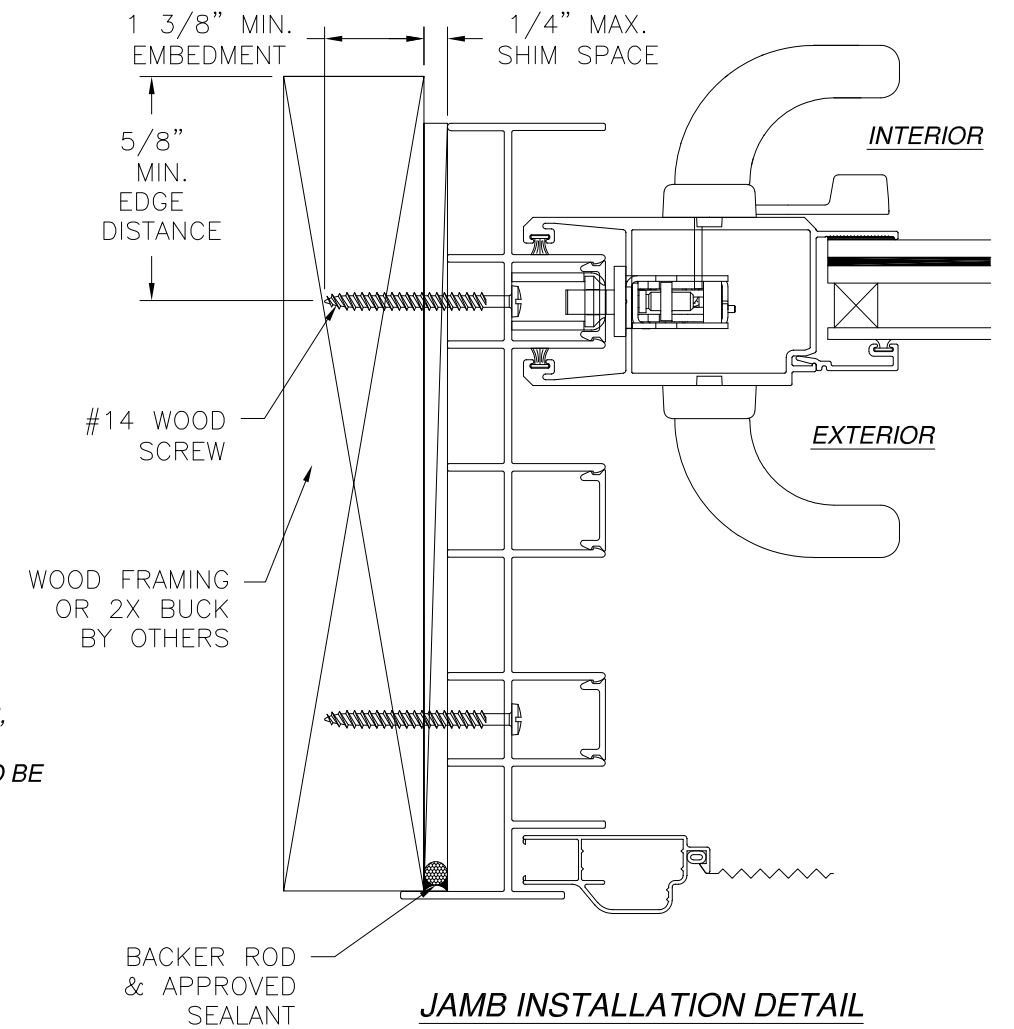


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

NOTES:

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

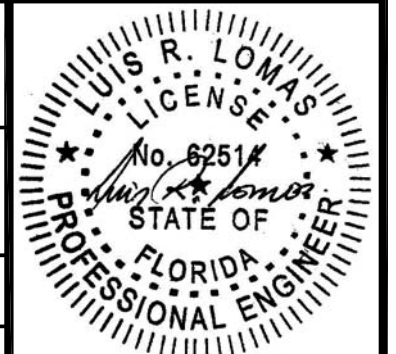
SIGNED: 10/11/2018

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

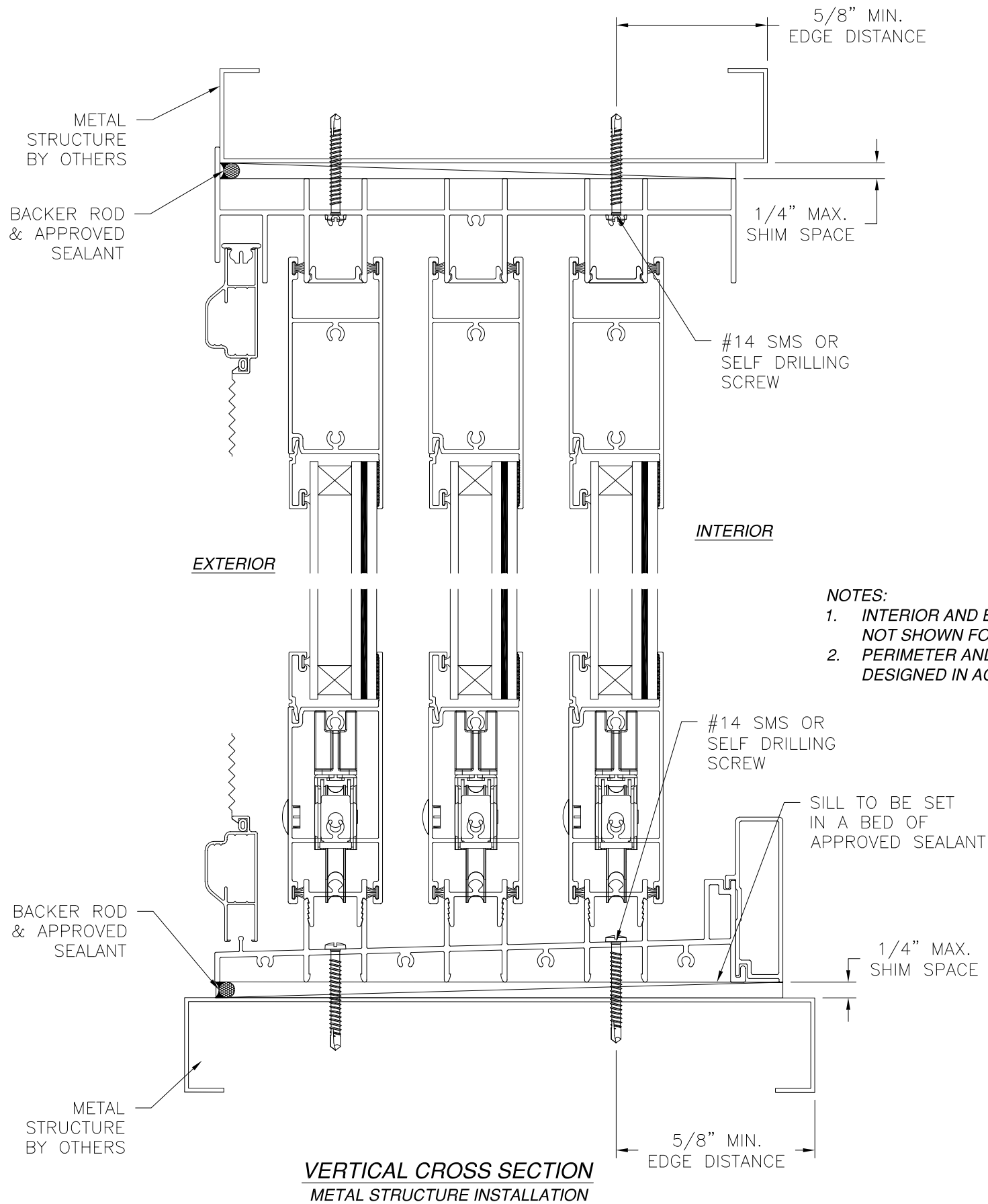
SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
3 TRACK FLANGE INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03321	REV -
SCALE NTS	DATE 09/19/18	SHEET 19 OF 28

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

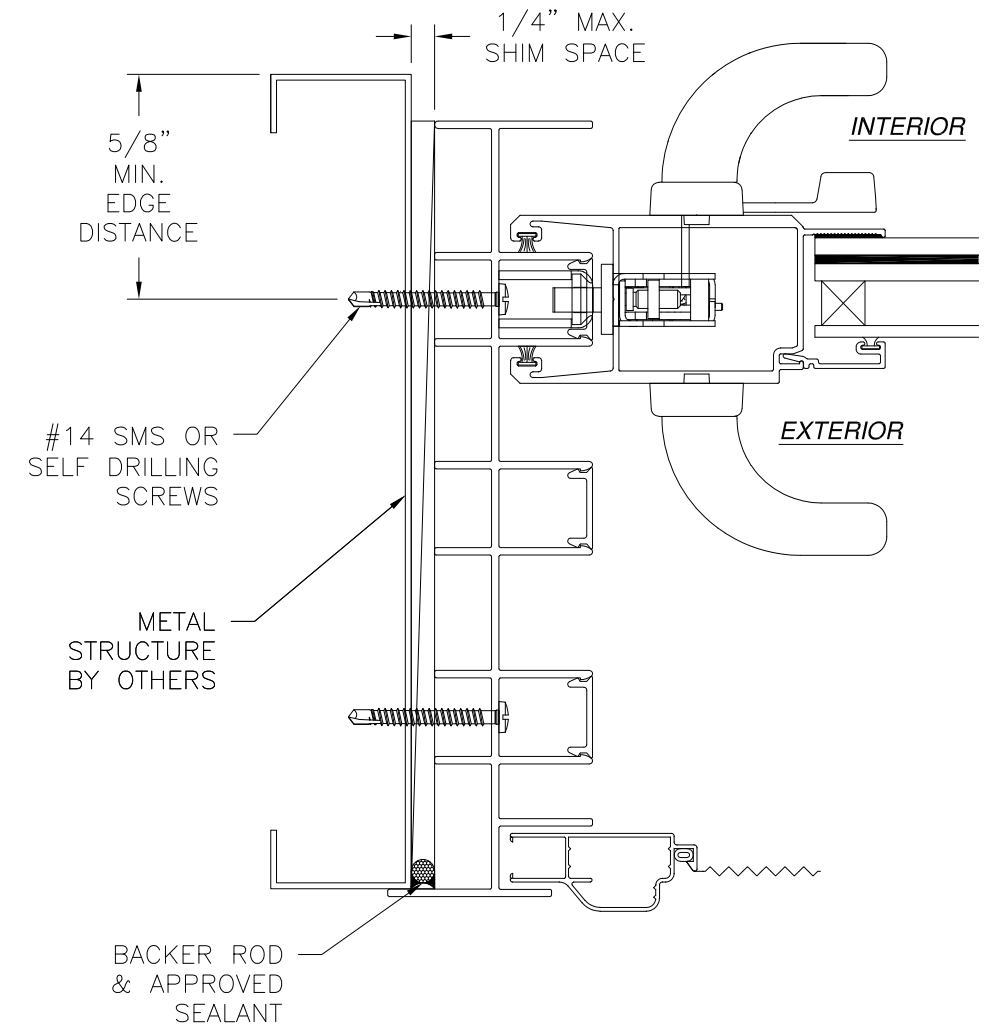


Luis R. Lomas P.E.
FL No.: 62514



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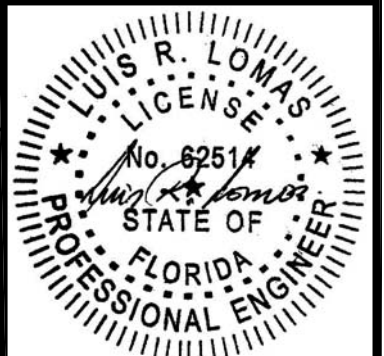
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REV	DESCRIPTION	DATE	APPROVED



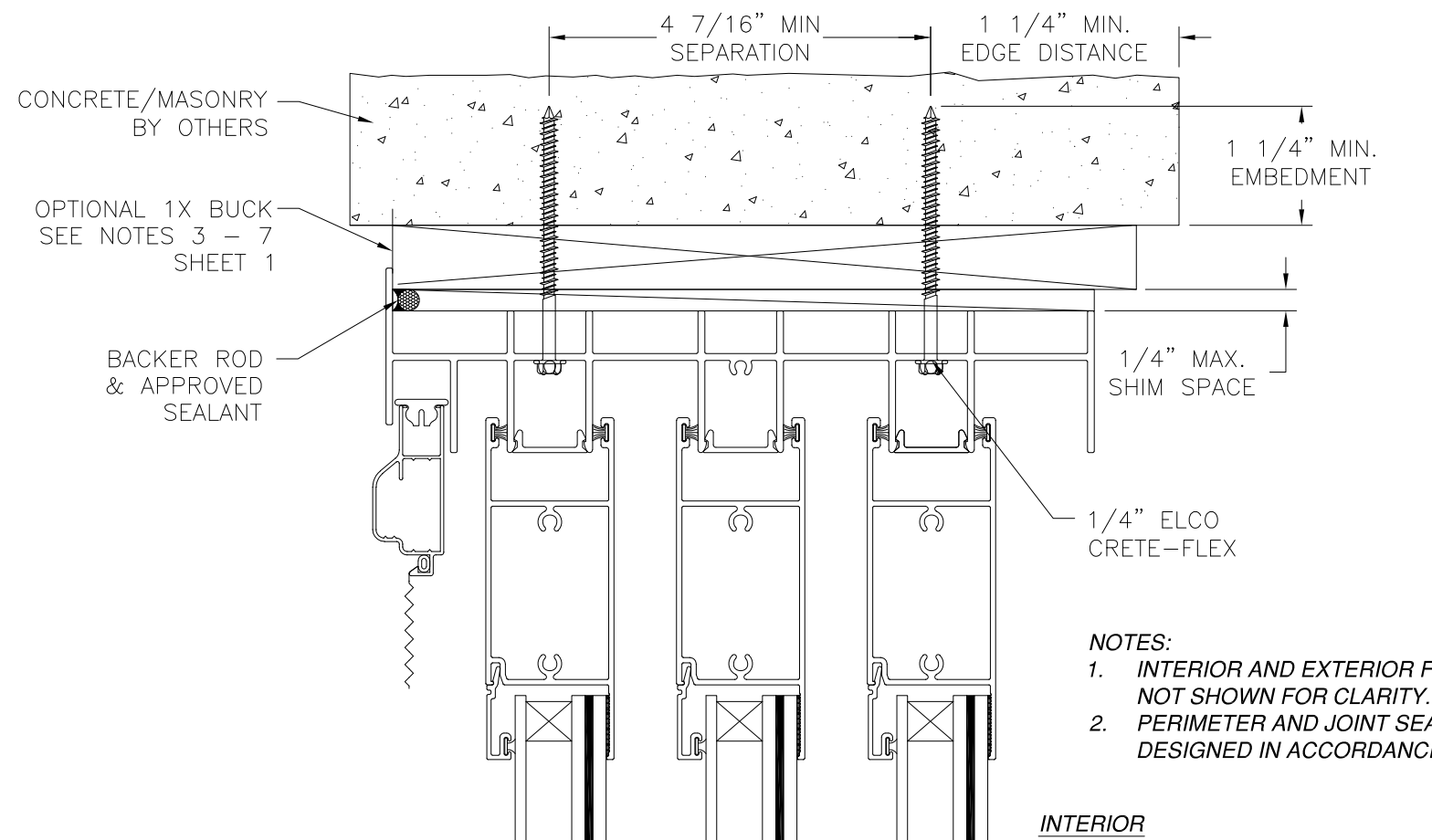
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

SIGNED: 10/11/2018

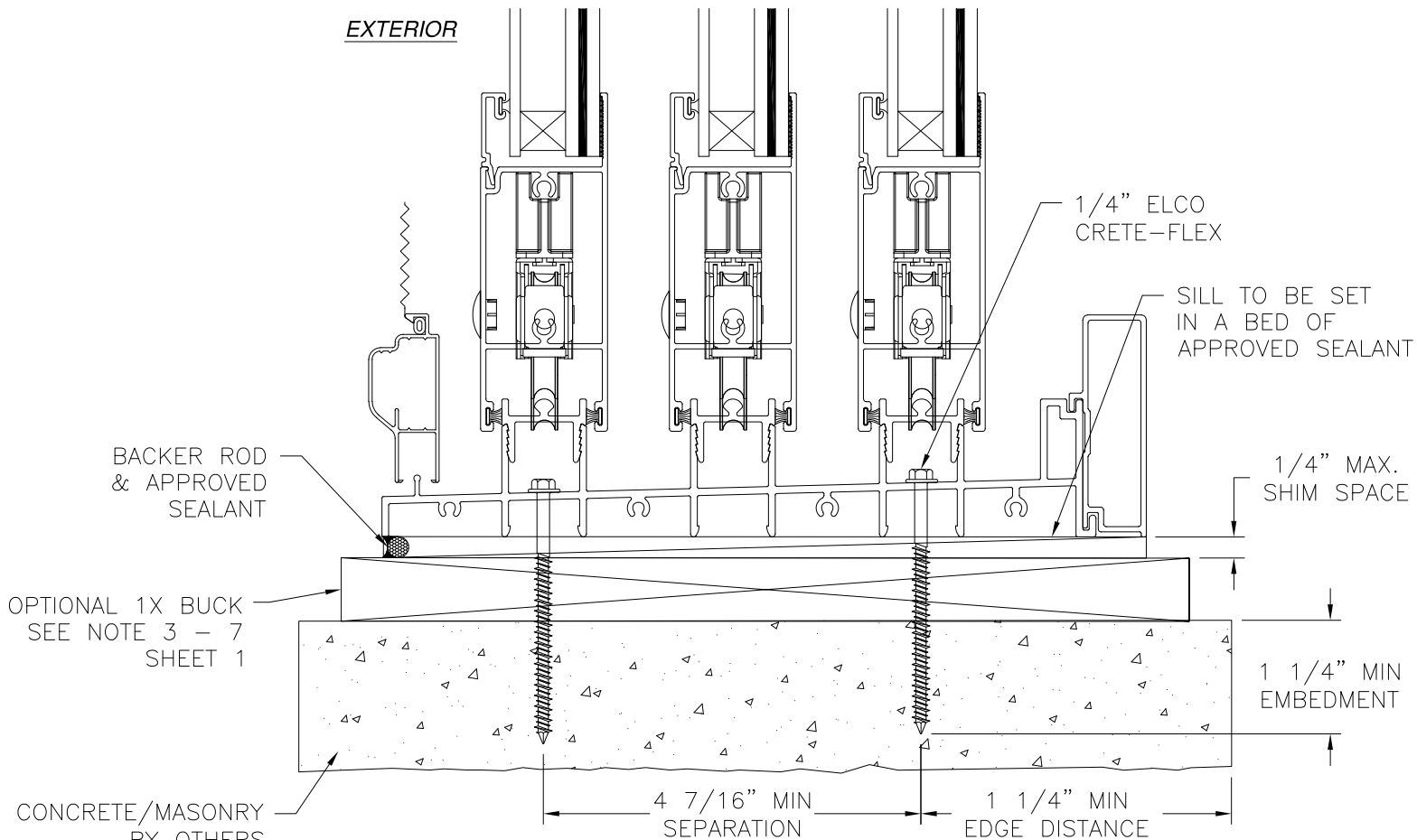
MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 3 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV -
SCALE NTS	DATE 09/19/18	SHEET 20 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



Luis R. Lomas P.E.
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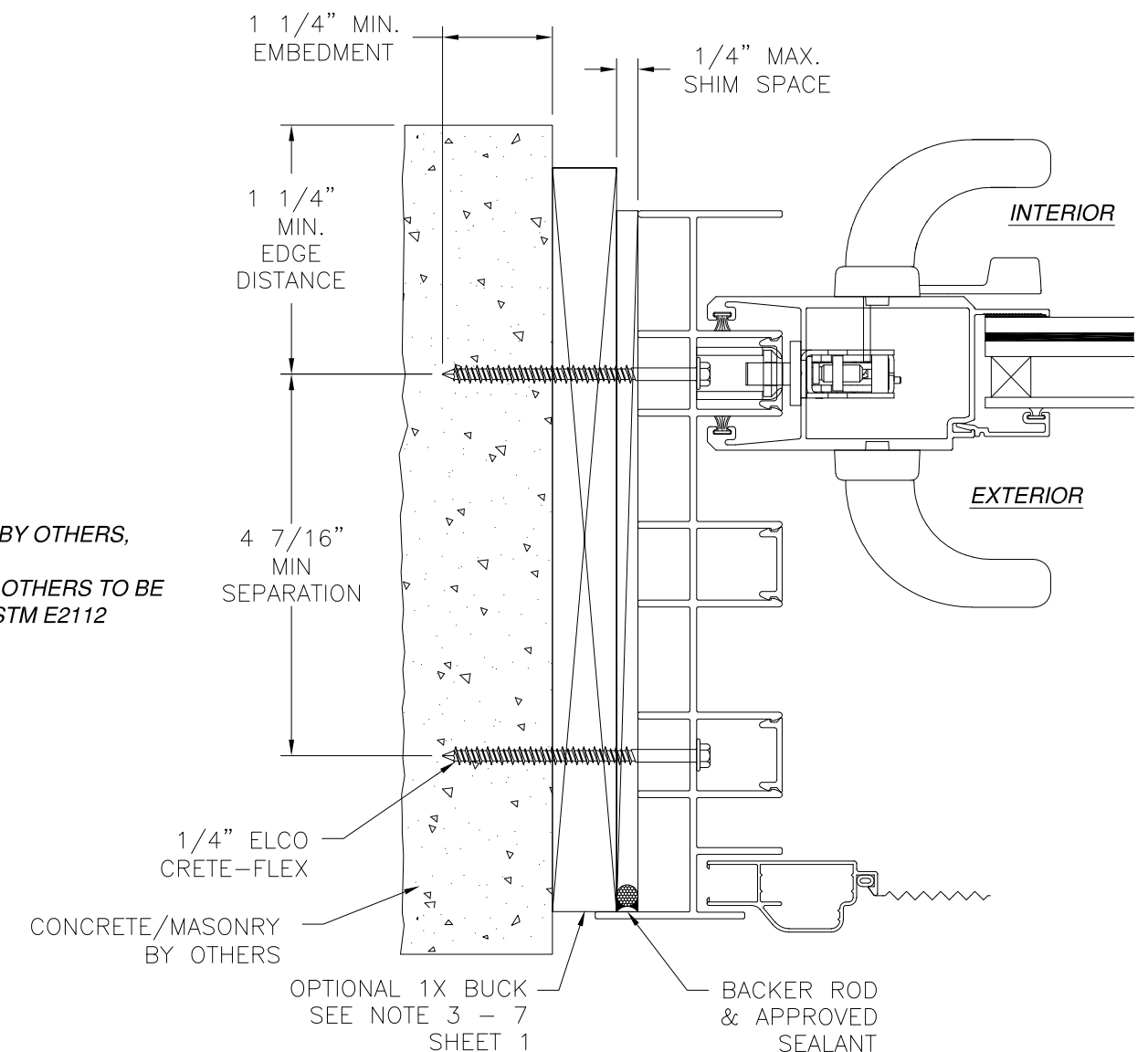


- NOTES:**
1. *INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.*
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

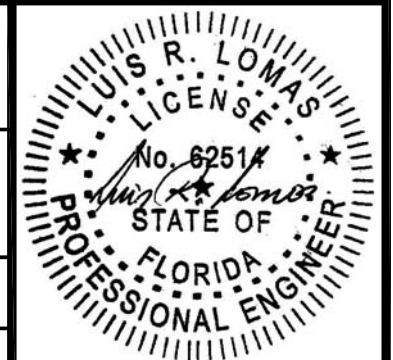
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REV	DESCRIPTION	DATE	APPROVED



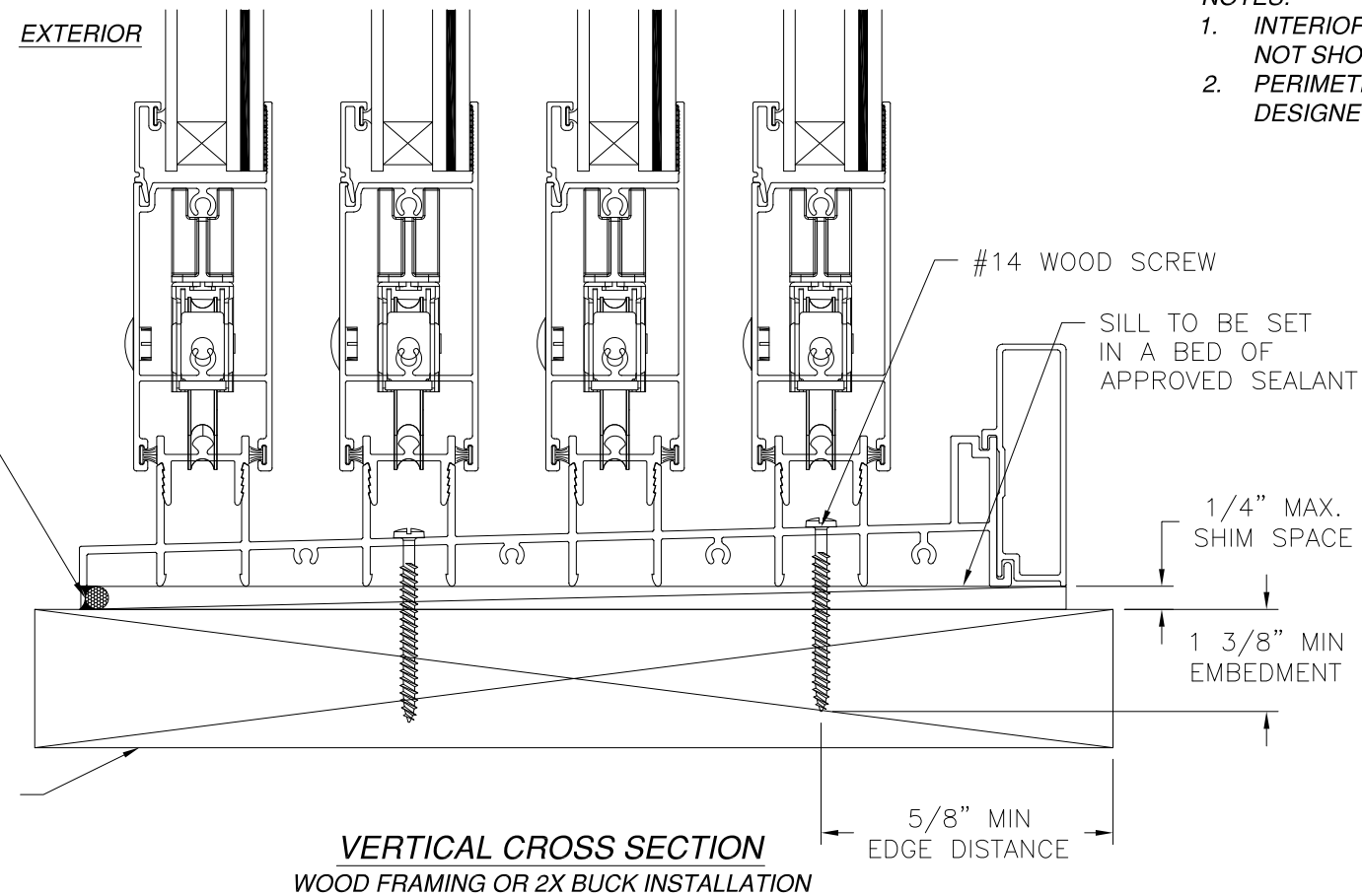
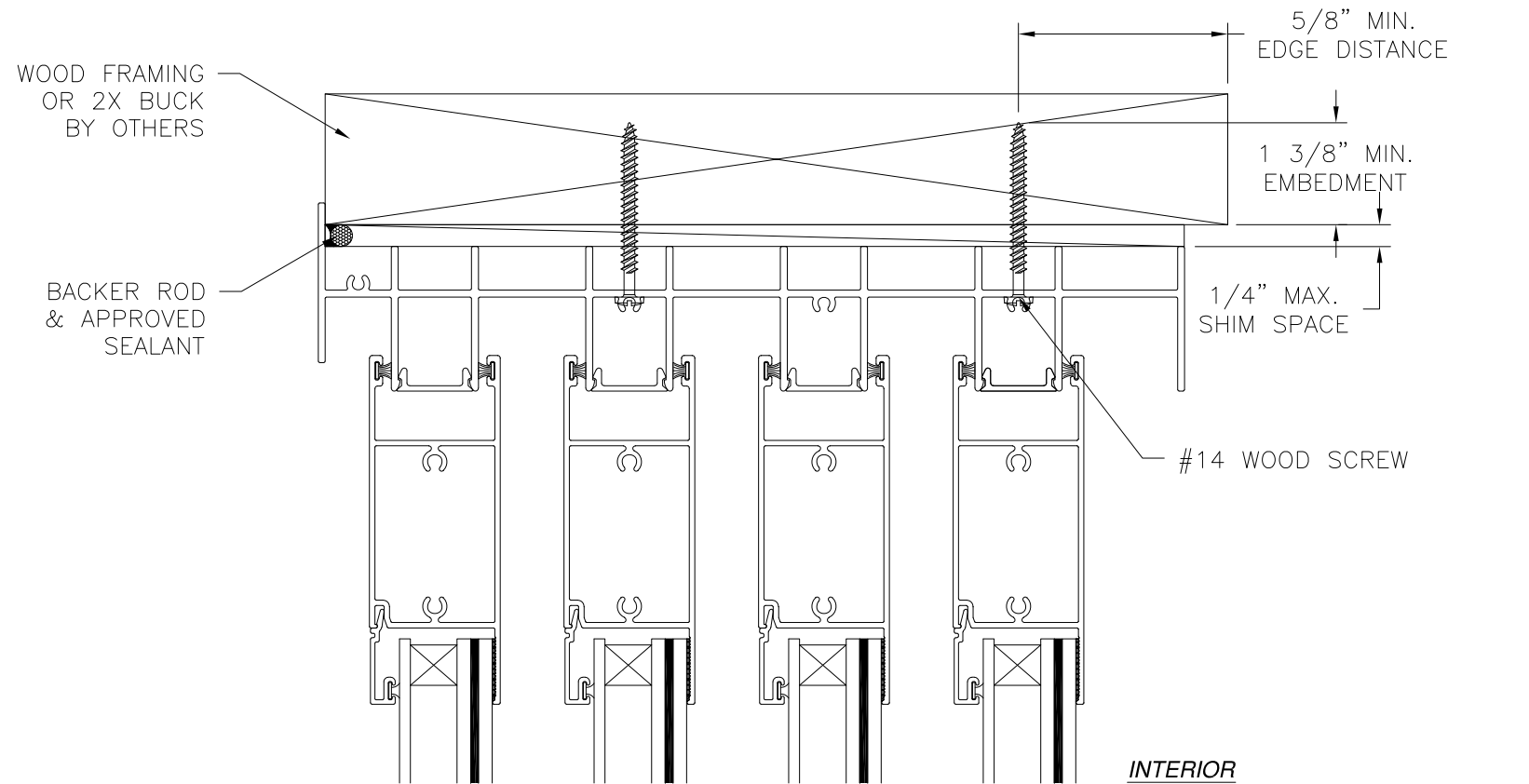
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

SIGNED: 10/11/2018

MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 3 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV -
SCALE NTS	DATE 09/19/18	SHEET 21 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



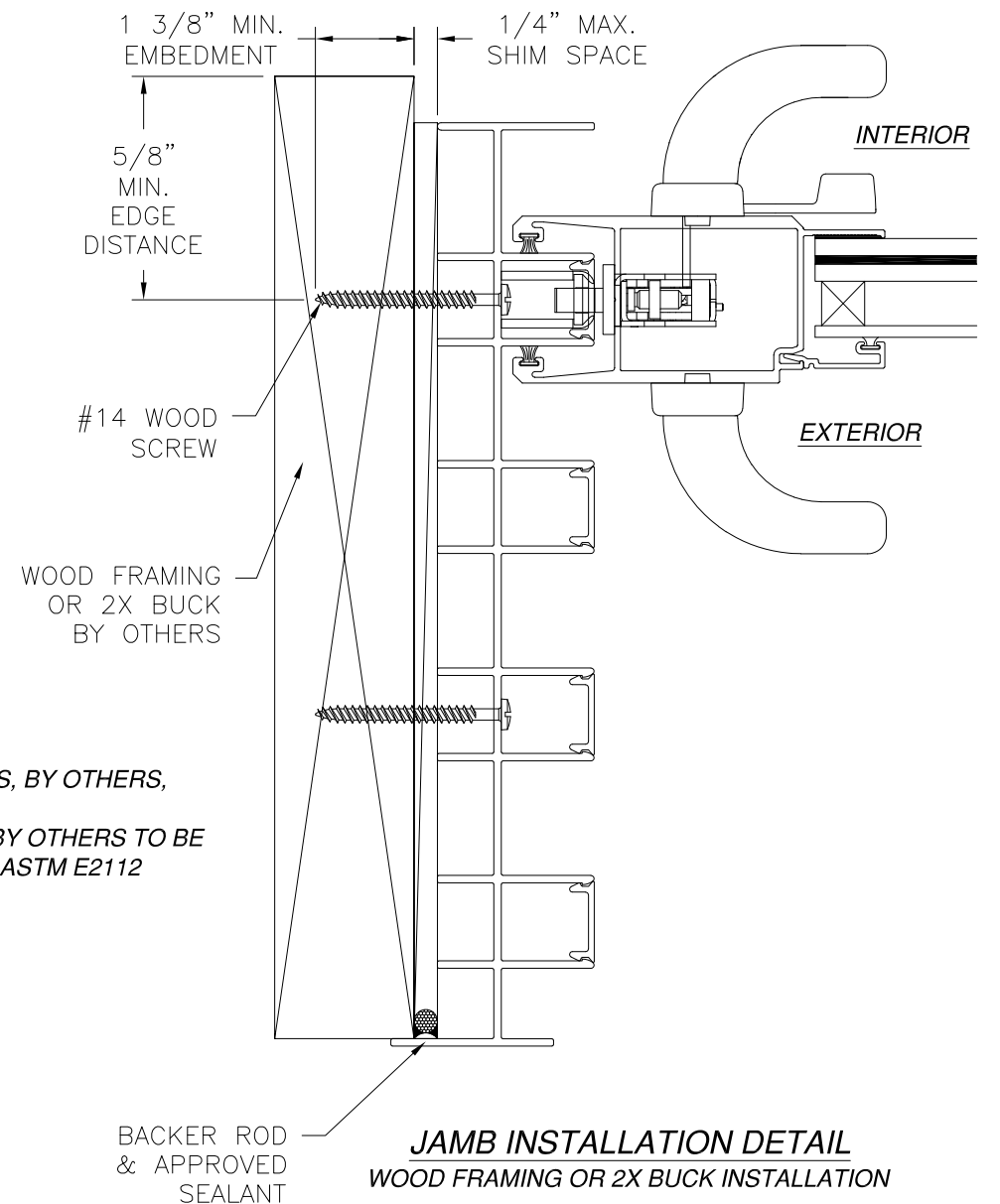
Luis R. Lomas P.E.
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

NOTES:

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JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

SIGNED: 10/11/2018

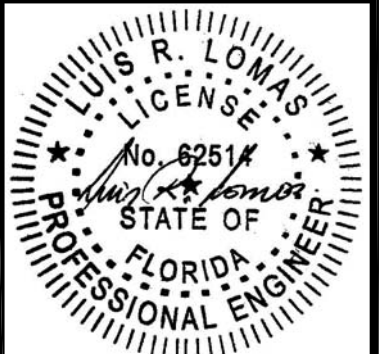
MI WINDOWS AND DOORS LLC

650 WEST MARKET STREET
GRATZ, PA 17030

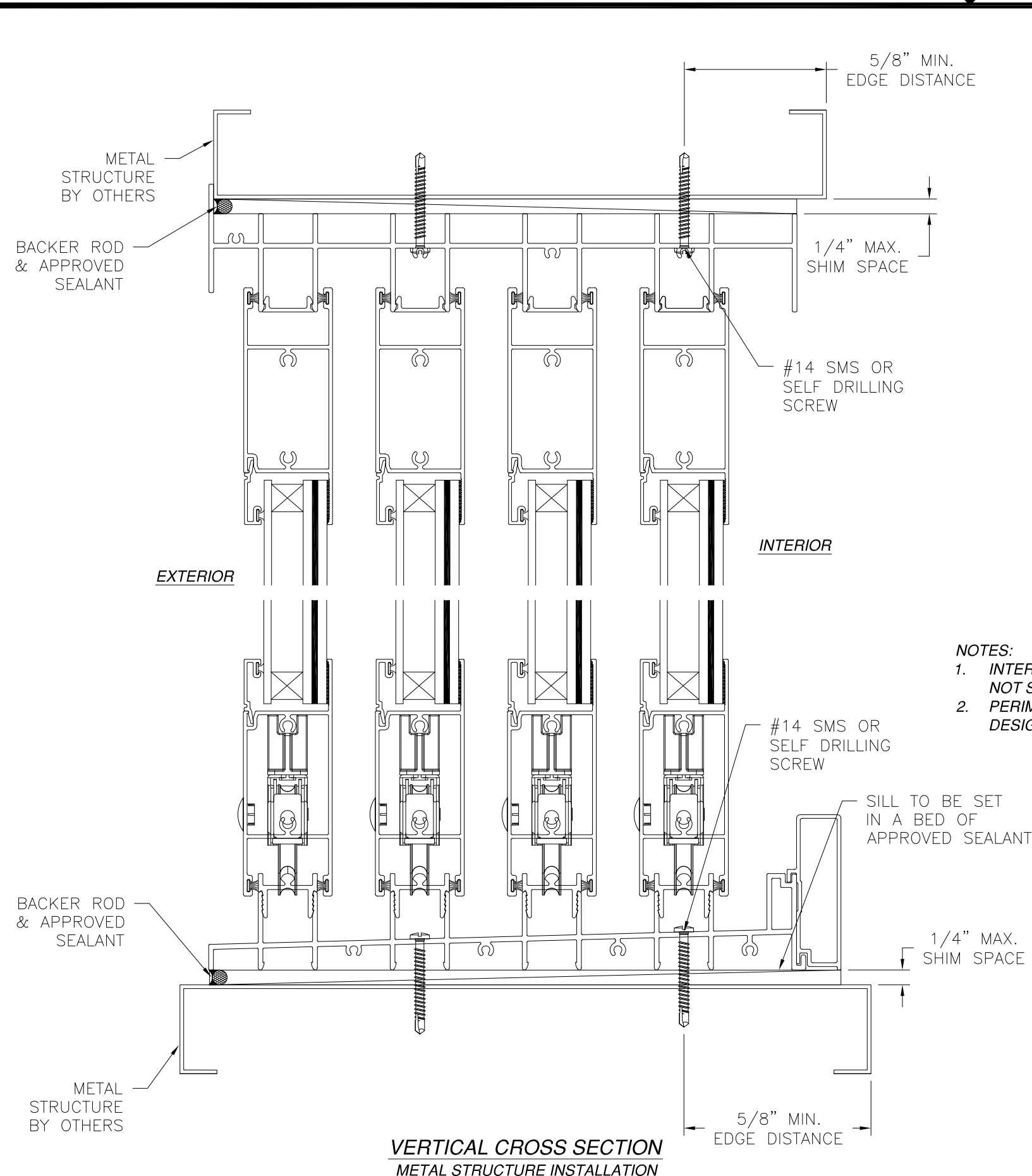
SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
4 TRACK FLANGE INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03321	REV -
SCALE NTS	DATE 09/19/18	SHEET 22 OF 28

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
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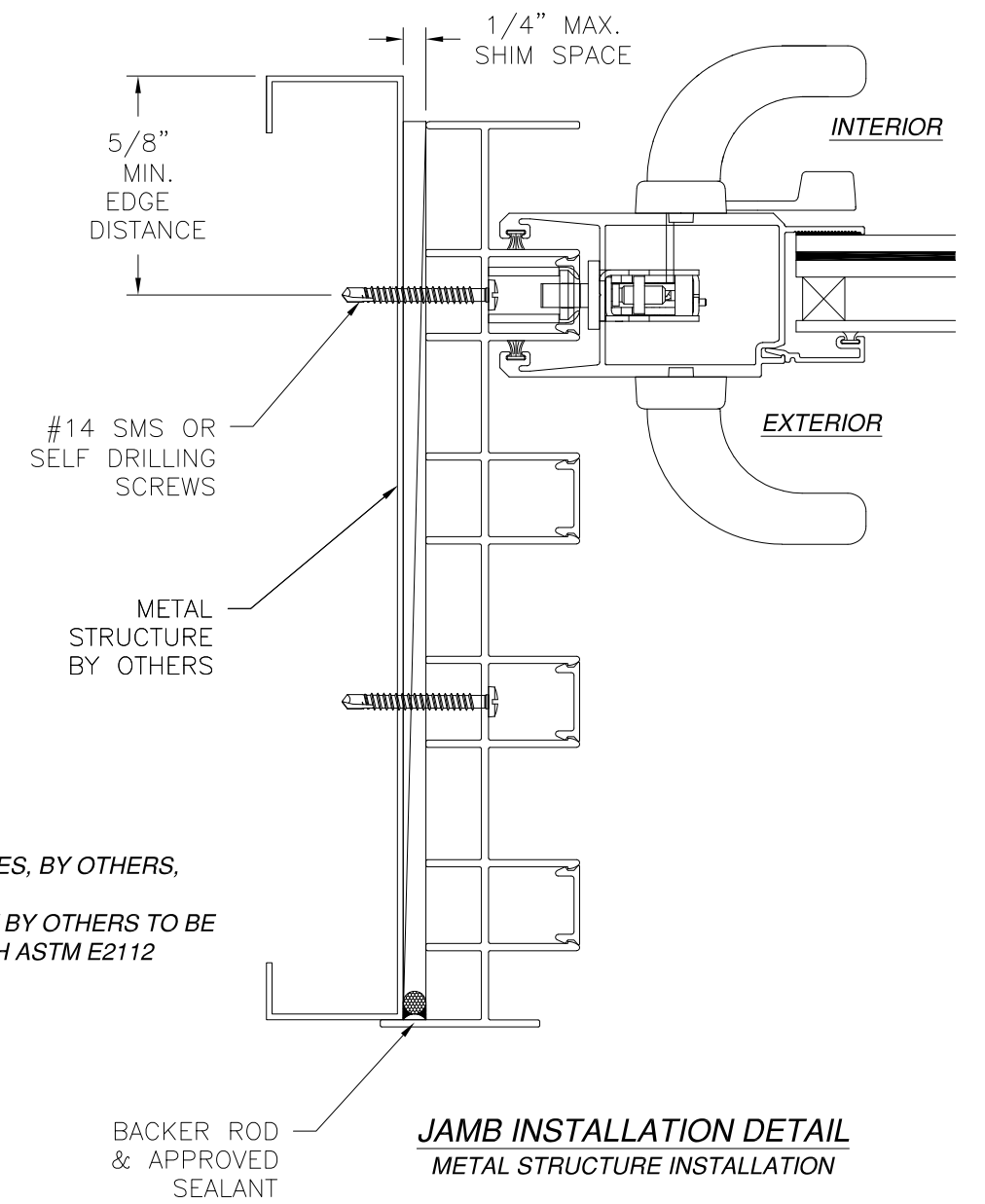


Luis R. Lomas P.E.
FL No.: 62514



- 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



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

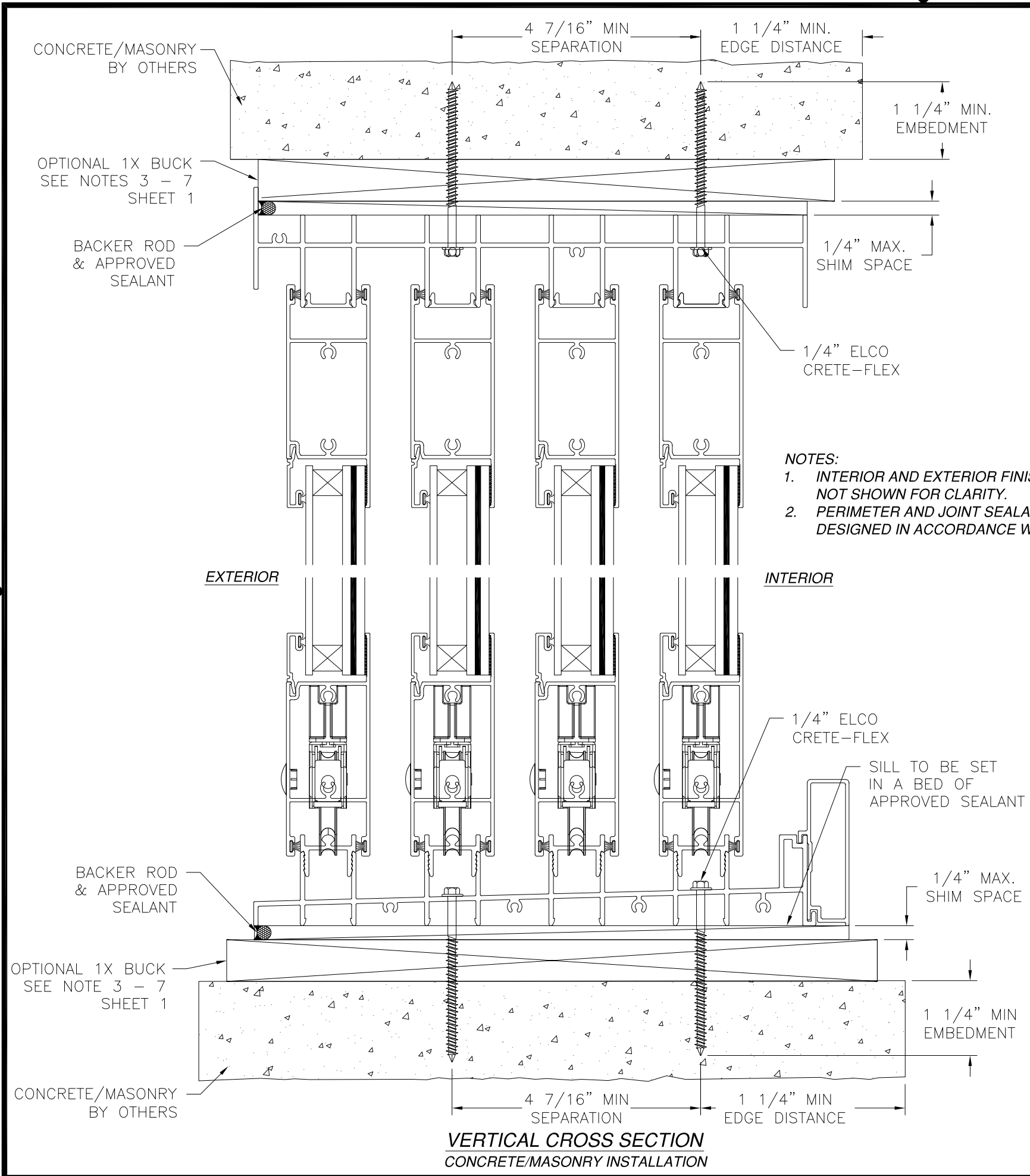
SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
4 TRACK FLANGE INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03321	REV -
SCALE NTS	DATE 09/19/18	SHEET 23 OF 28

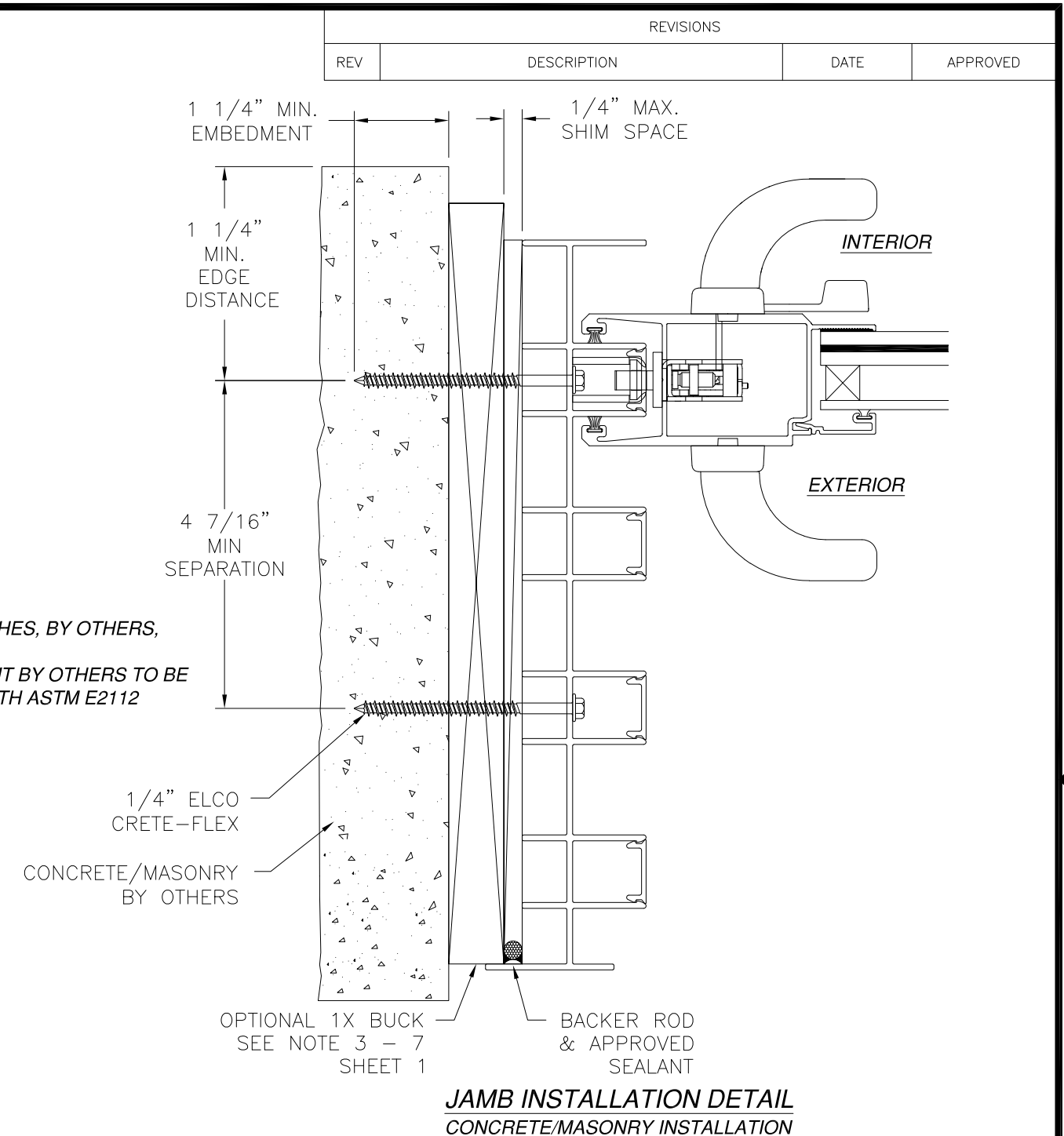
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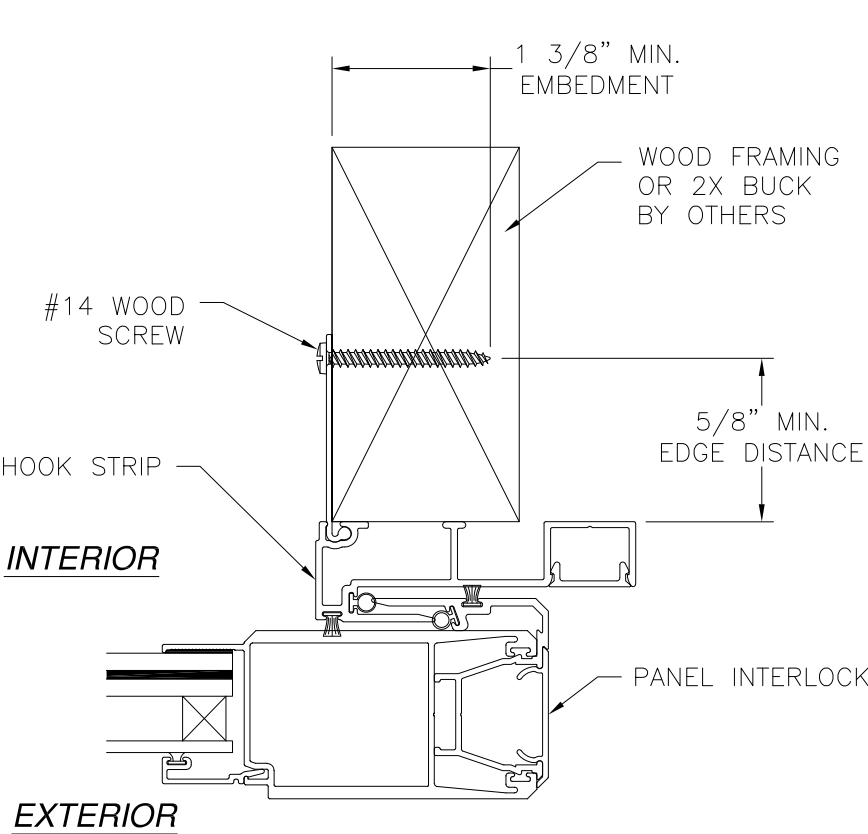
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MI WINDOWS AND DOORS LLC 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 120/130/140 ALUMINUM SGD NON-REINFORCED, LARGE & SMALL MISSILE IMPACT 4 TRACK FLANGE INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03321	REV -
SCALE NTS	DATE 09/19/18	SHEET 24 OF 28
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

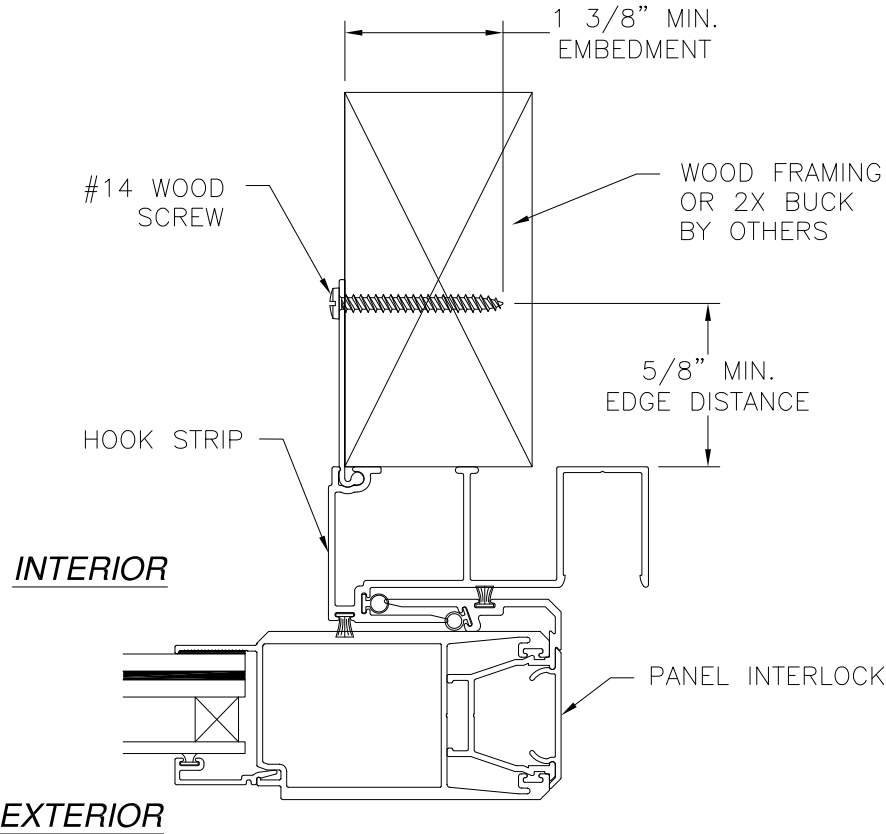
Luis R. Lomas P.E.
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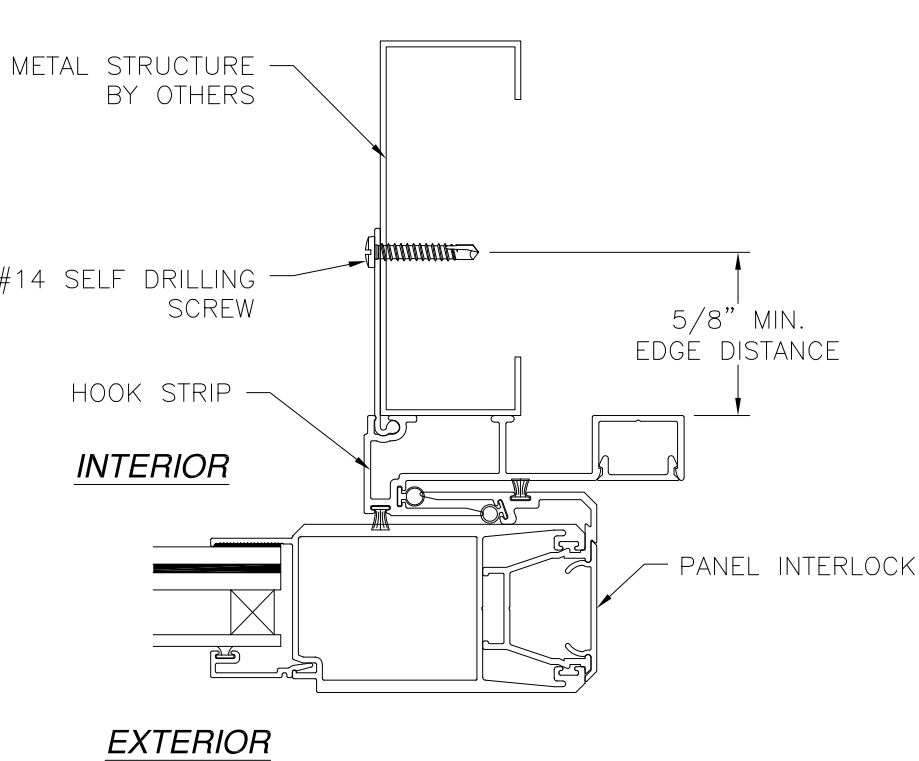
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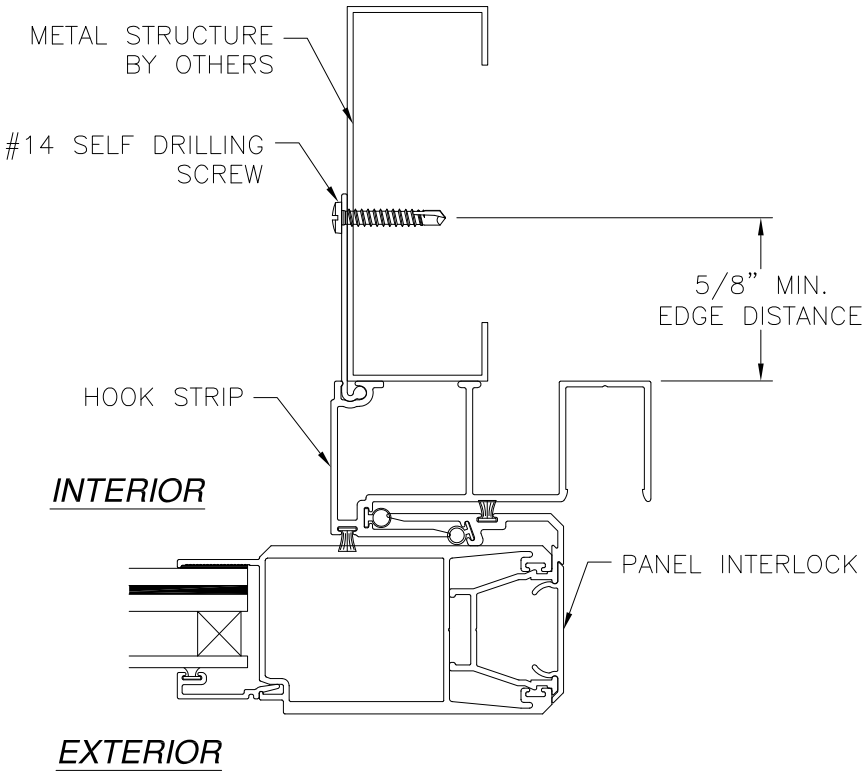
HOOK STRIP (M-2533) INSTALLATION
2X BUCK/WOOD FRAMING



HOOK STRIP (M-2534) INSTALLATION
2X BUCK/WOOD FRAMING



HOOK STRIP (M-2533) INSTALLATION
METAL STRUCTURE



HOOK STRIP (M-2534) INSTALLATION
METAL STRUCTURE

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650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
HOOK INSTALLATION DETAILS

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08-03321

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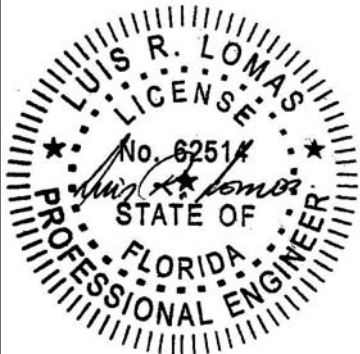
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DATE 09/19/18

SHEET 25 OF 28

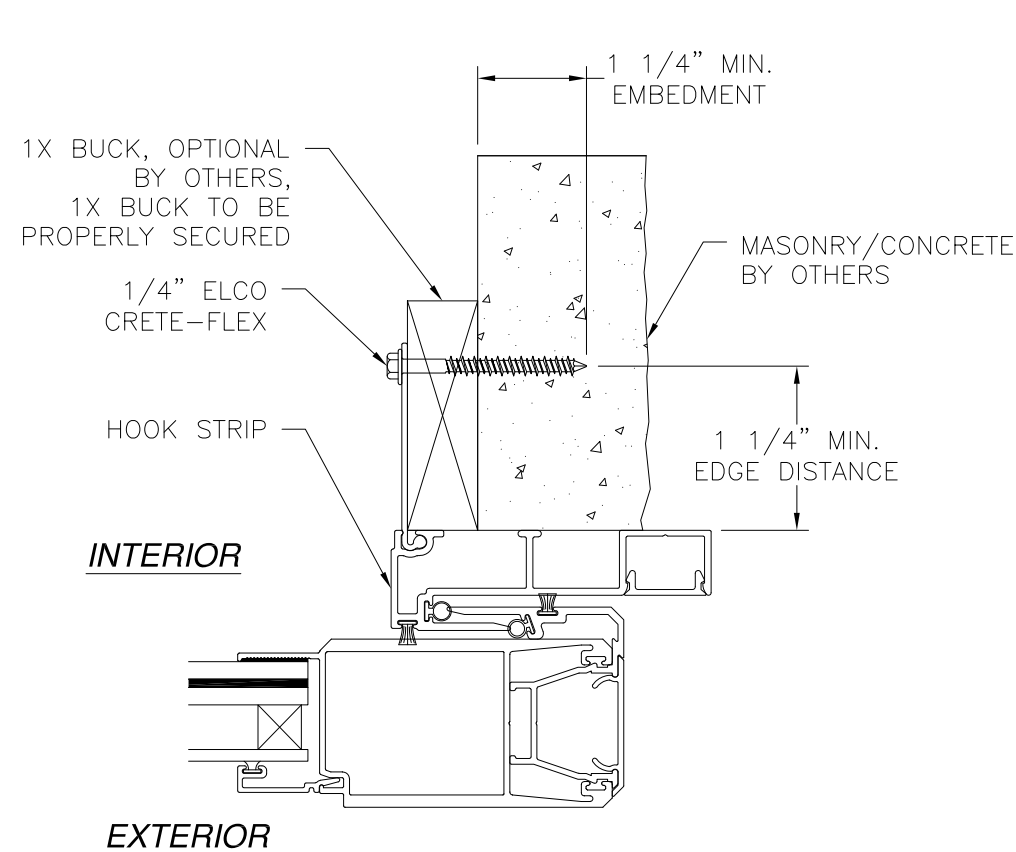
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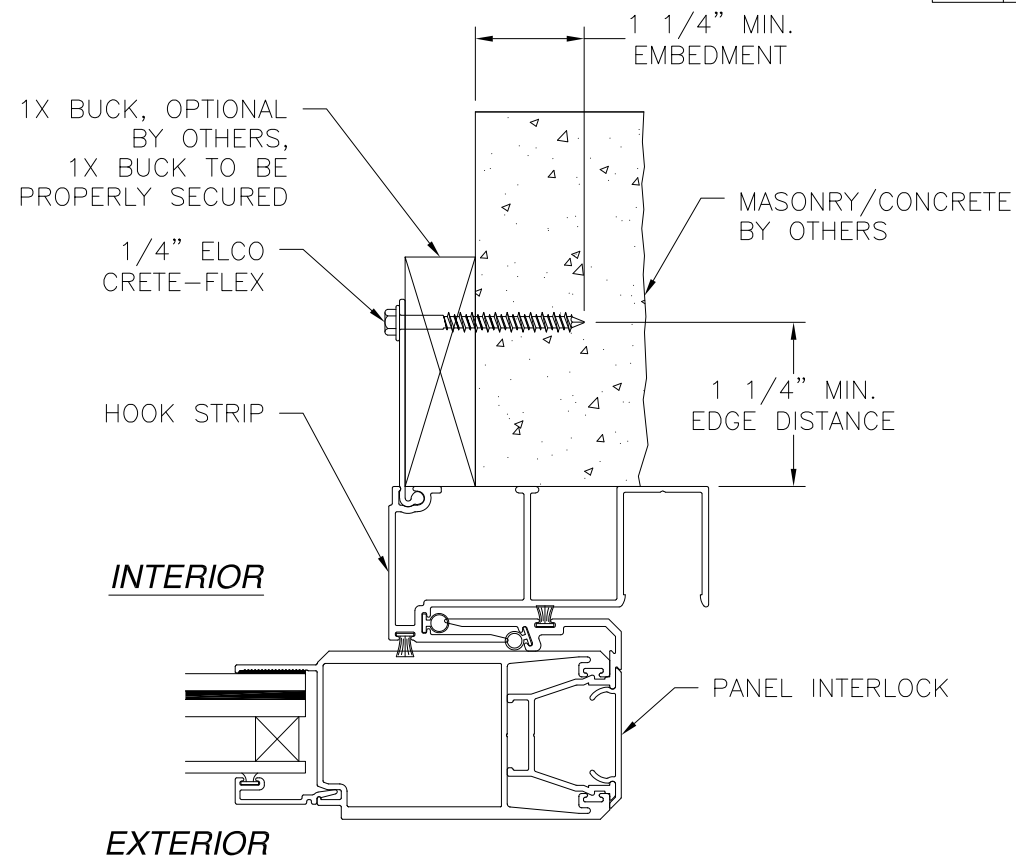


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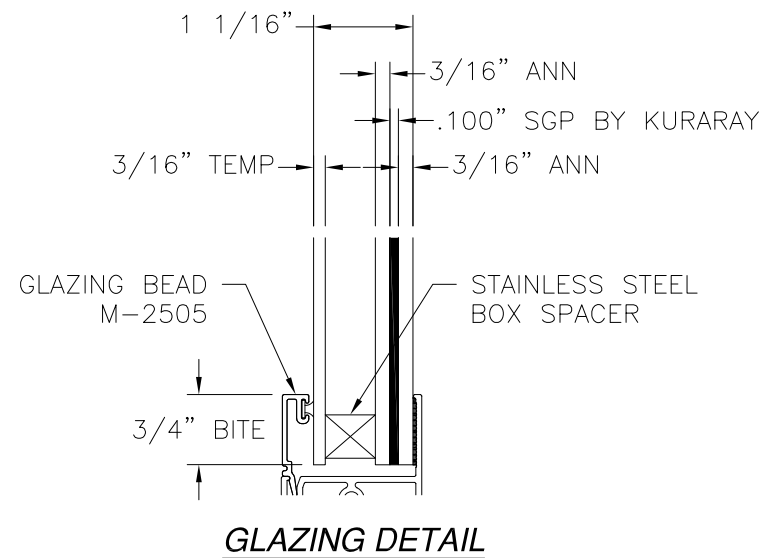
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REV	DESCRIPTION	DATE	APPROVED



HOOK STRIP (M-2533) INSTALLATION
MASONRY/CONCRETE



HOOK STRIP (M-2534) INSTALLATION
MASONRY/CONCRETE



GLAZING DETAIL

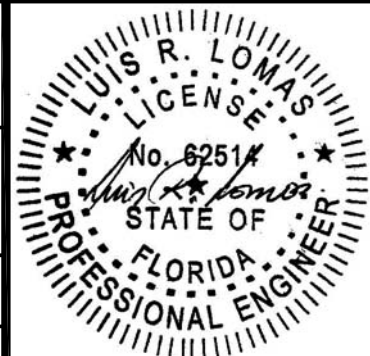
MI WINDOWS AND DOORS LLC
650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 120/130/140 ALUMINUM SGD
NON-REINFORCED, LARGE & SMALL MISSILE IMPACT
HOOK INSTALLATION DETAILS & GLAZING DETAIL

DRAWN: A.R.	DWG NO. 08-03321	REV -
SCALE NTS	DATE 09/19/18	SHEET 26 OF 28

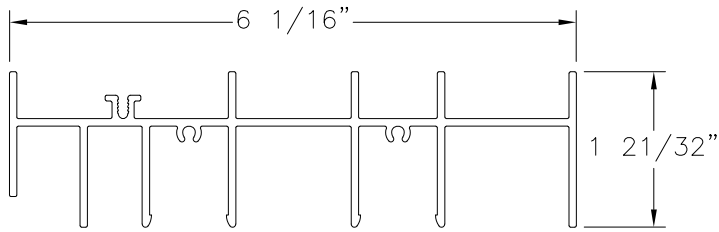
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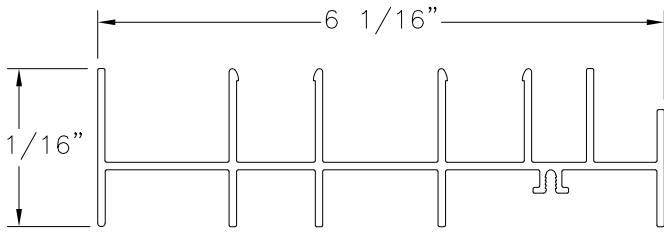


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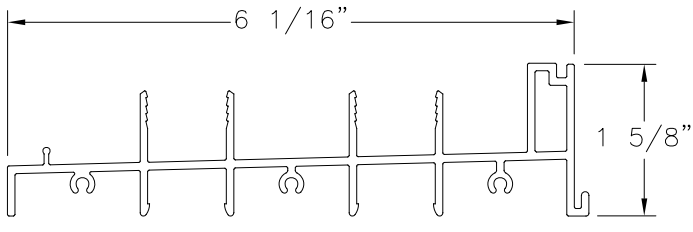
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REV	DESCRIPTION	DATE	APPROVED



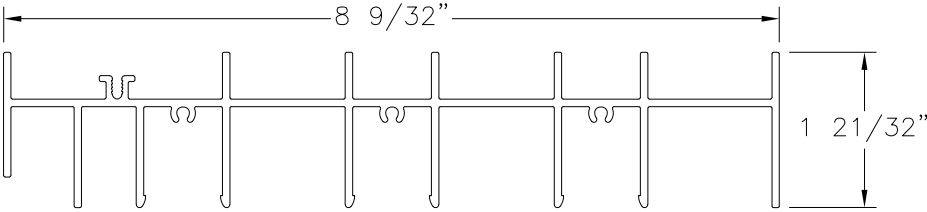
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ALUMINUM 6005-T5 (M-2520)



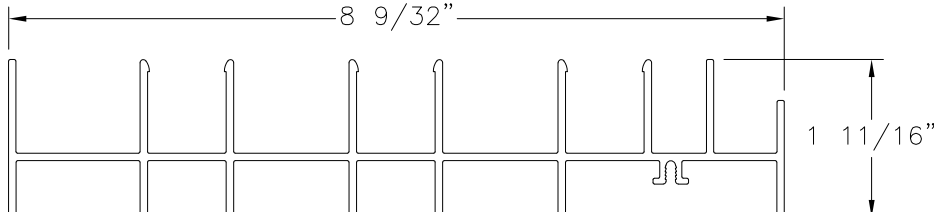
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ALUMINUM 6005-T5 (M-2523)



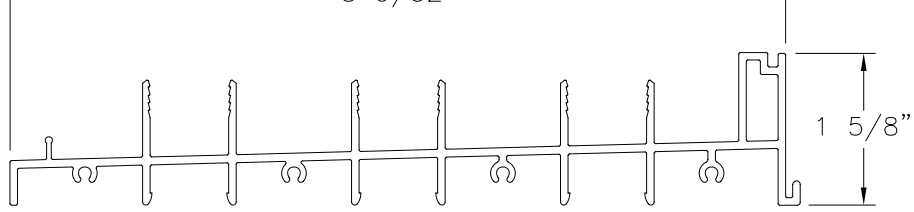
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ALUMINUM 6005-T5 (M-2522)



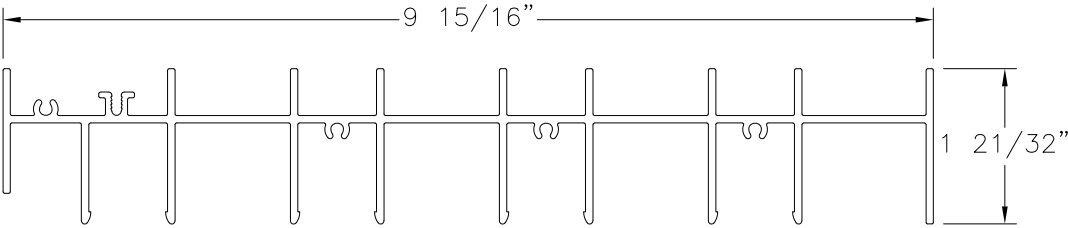
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ALUMINUM 6005-T5 (M-2520)



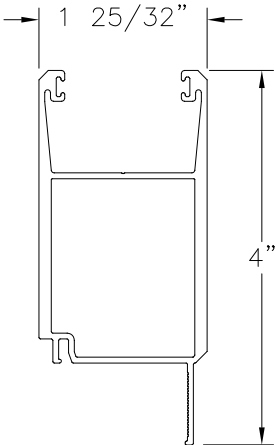
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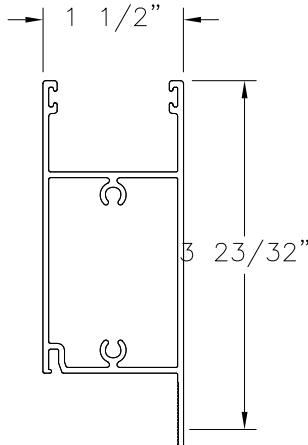
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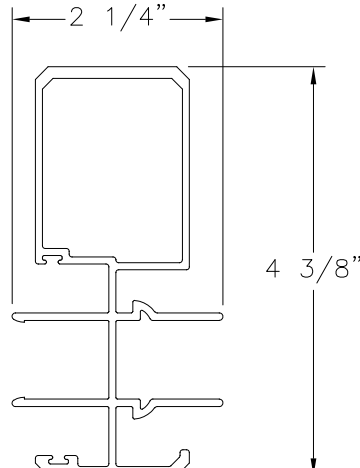
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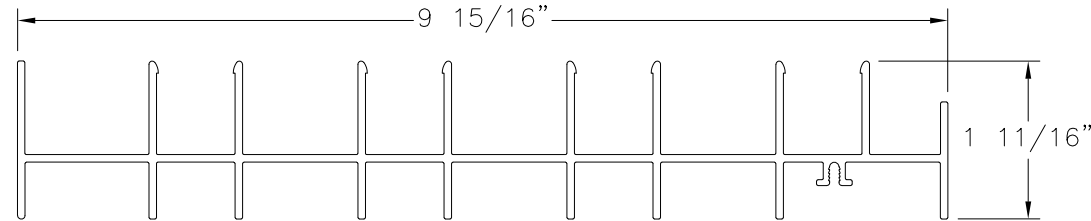
PANEL STILE
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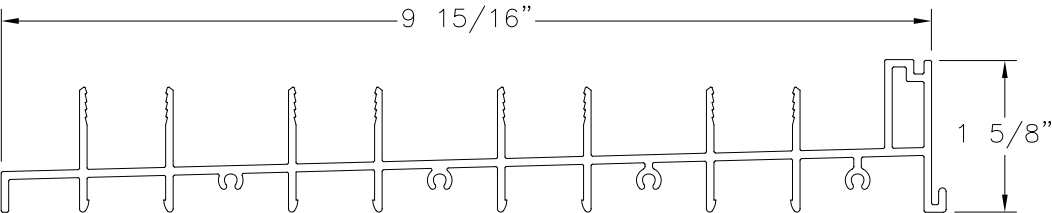
PANEL TOP RAIL
ALUMINUM 6005-T5 (M-2500)



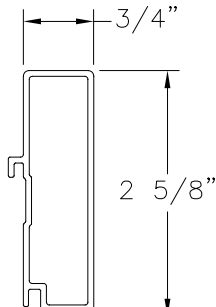
4-PANEL ADAPTER
ALUMINUM 6005-T5 (M-2518)



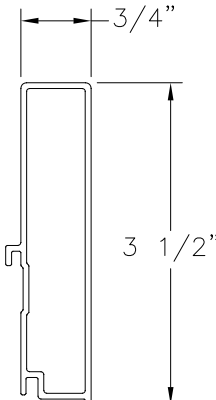
FRAME JAMB 4TRACK, FINLESS
ALUMINUM 6005-T5 (M-2523)



FRAME SILL 4TRACK
ALUMINUM 6005-T5 (M-2522)



2 5/8" SILL EXTENDER
ALUMINUM 6063-T5 .062" THICK



3 1/2" SILL EXTENDER
ALUMINUM 6063-T5 .062" THICK

MI WINDOWS AND DOORS LLC
650 WEST MARKET STREET
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COMPONENTS

DRAWN:
A.R.

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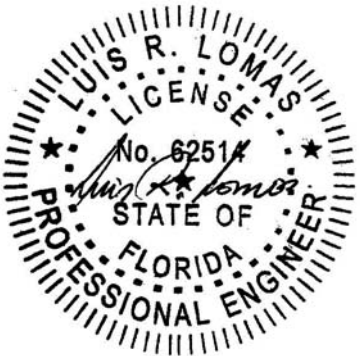
SCALE
NTS

DATE
09/19/18

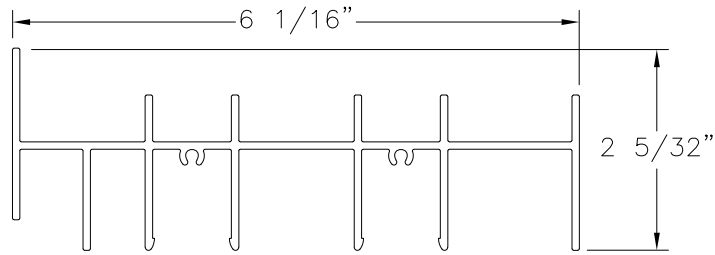
SHEET
27 OF 28

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

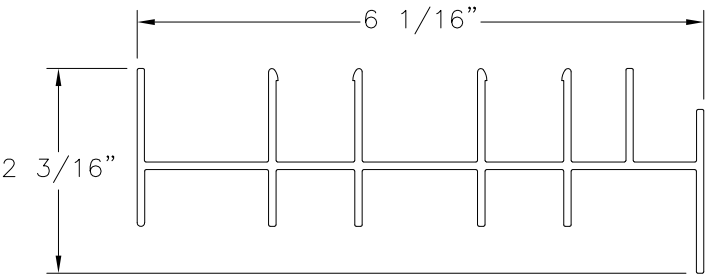
SIGNED: 10/11/2018



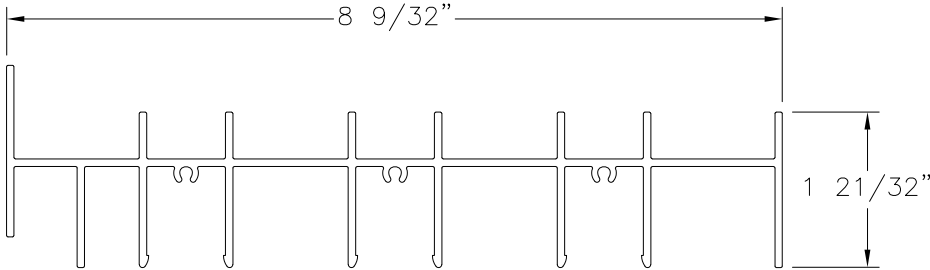
Luis R. Lomas P.E.
FL No.: 62514



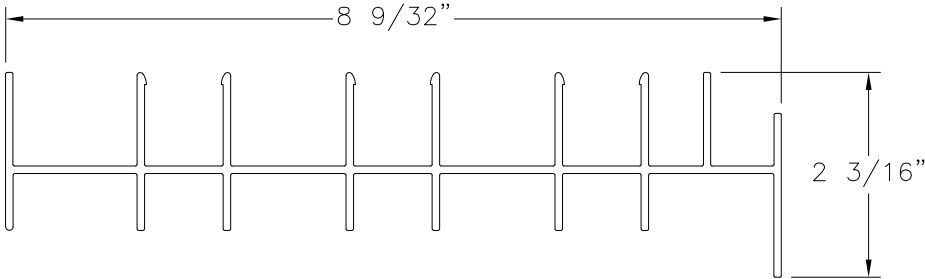
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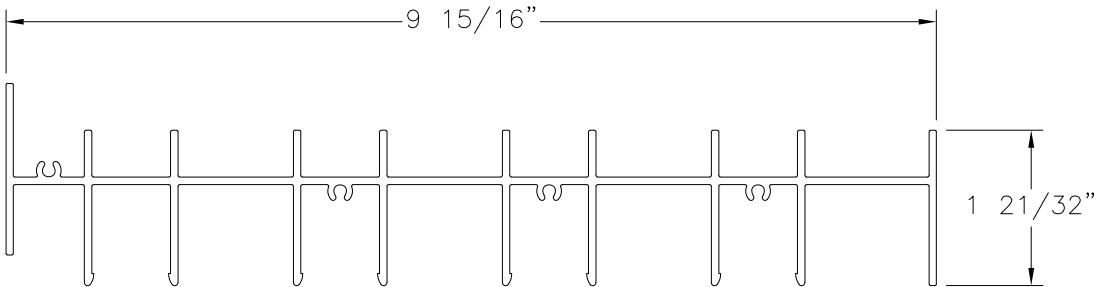
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ALUMINUM 6005-T5 (M-2523)



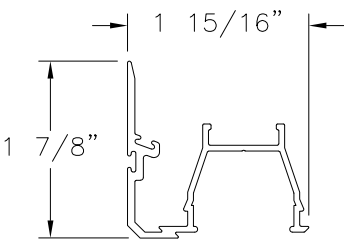
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ALUMINUM 6005-T5 (M-2520)



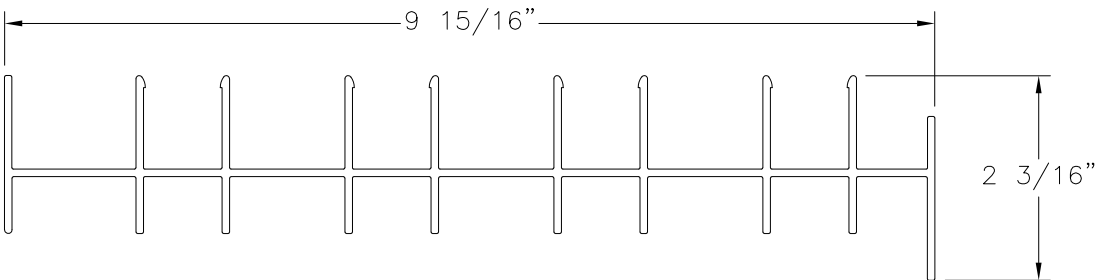
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ALUMINUM 6005-T5 (M-2523)



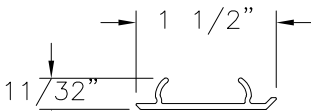
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ALUMINUM 6005-T5 (M-2520)



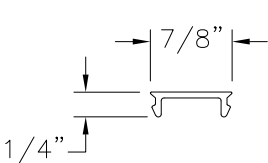
PANEL INTERLOCK
ALUMINUM 6005-T5 (M-2503)



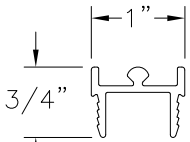
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ALUMINUM 6005-T5 (M-2523)



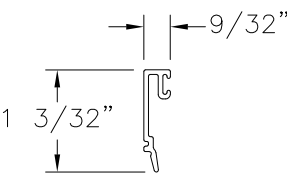
INTERLOCK COVER
ALUMINUM 6005-T5 (M-2504)



HEAD/JAMB FILLER
ALUMINUM 6063-T5 (M-2512)



SILL SNAP-IN ROLLER TRACK
ALUMINUM 6063-T5 (M-2511)



GLAZING BEAD
ALUMINUM 6063-T5 (M-2505)

REVISIONS			
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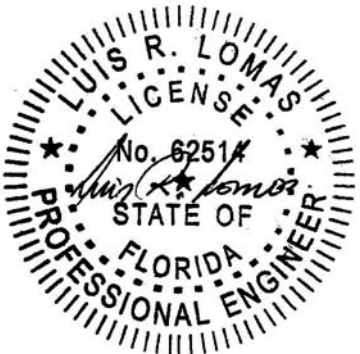
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SHEET 28 OF 28

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