

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED MANUFACTURER ADDRESS	07/22/2026	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
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. 2X BUCK OVER MASONRY/CONCRETE TO BE PROPERLY SECURED TO BUILDING STRUCTURE. DESIGN AND ANCHORING OF 2X BUCK 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. MEETING JAMB AND JAMB EXTENSION MATERIAL: WOOD SPECIFIC GRAVITY G=0.59 MINIMUM (INCLUDES BUT IS NOT LIMITED TO: LARCH, SIPO, MERANTI, MAHOGANY, WHITE OAK, WALNUT)
6. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
7. DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
8. WINDOWS OR DOORS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. WINDOWS MUST BE MANUFACTURED BY BILDAU & BUSSMANN GMBH.
9. DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW OR DOOR UNIT.
10. UNITS MAY BE MULLED TOGETHER INDEFINITELY AS LONG AS SINGLE UNIT WIDTH AND HEIGHT ARE NOT EXCEEDED AND MULLION IS ANCHORED AS SHOWN HEREIN.

ANCHORING NOTES:

1. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK THROUGH INSTALLATION CLIP USE #12 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 2" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
2. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK THROUGH FRAME USE #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
3. FOR ATTACHING INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE SCREWS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
4. ALL FASTENERS TO BE CORROSION RESISTANT.
5. 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. METAL STRUCTURE: STEEL 16GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM

SIGNED: 07/22/2026

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BILDAU & BUSSMANN NORTH AMERICA INC.
200 CONTINENTAL DRIVE, SUITE 401
NEWARK, DE 19713

SINGLE TIMBER INTEGRAL VERTICAL MULLION
IMPACT 90" SPAN
NOTES

DRAWN:
R.L.

DWG NO.
08-01858B

REV
B

SCALE NTS

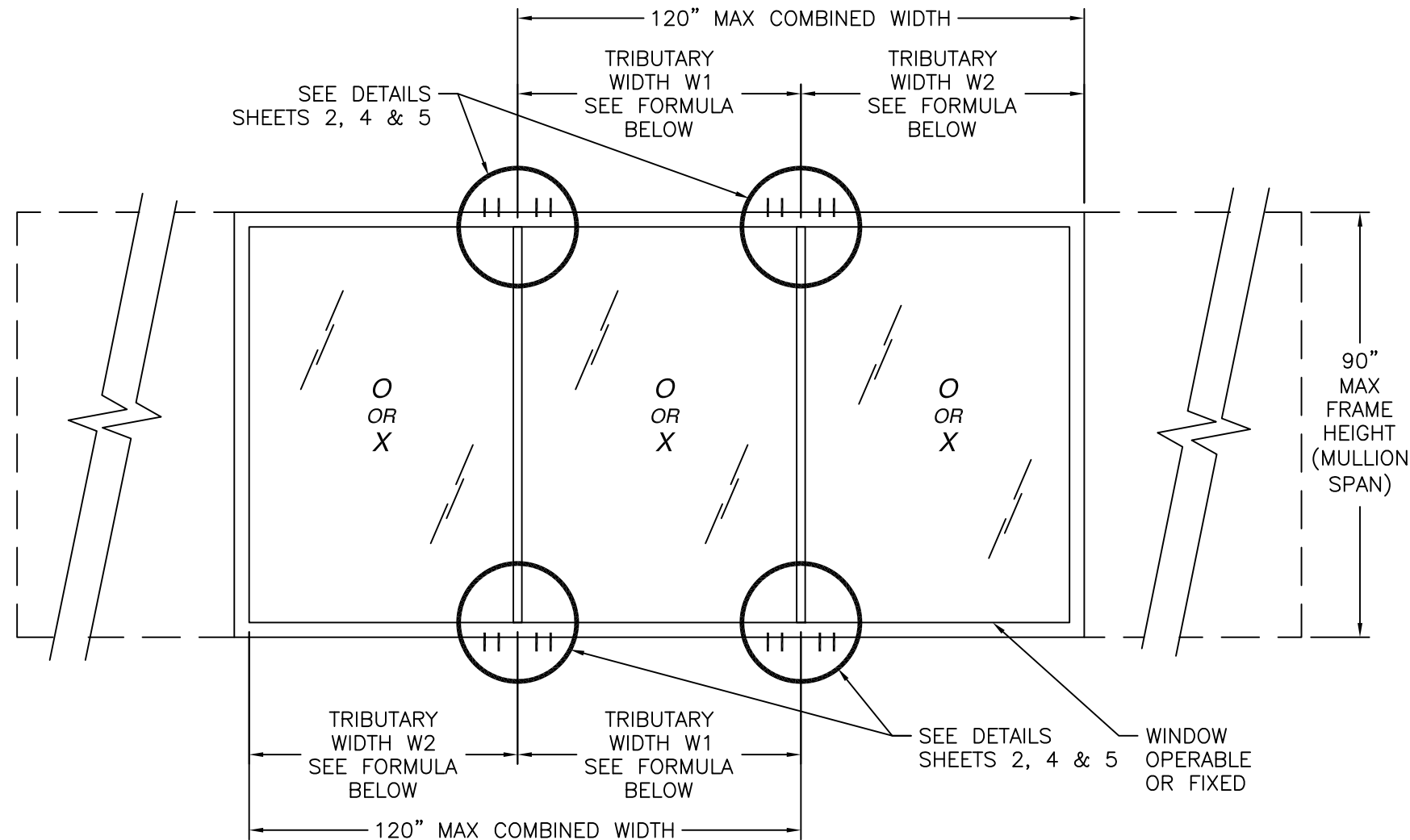
DATE 12/27/12

SHEET 1 OF 5

L. ROBERTO LOMAS P.E.
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LUIS R. LOMAS
LICENSE
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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



VERTICAL MULLION

UNLIMITED NUMBER OF PANELS IS APPLICABLE AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED MAXIMUM PANEL SIZE AND ARE ANCHORED AS SHOWN.

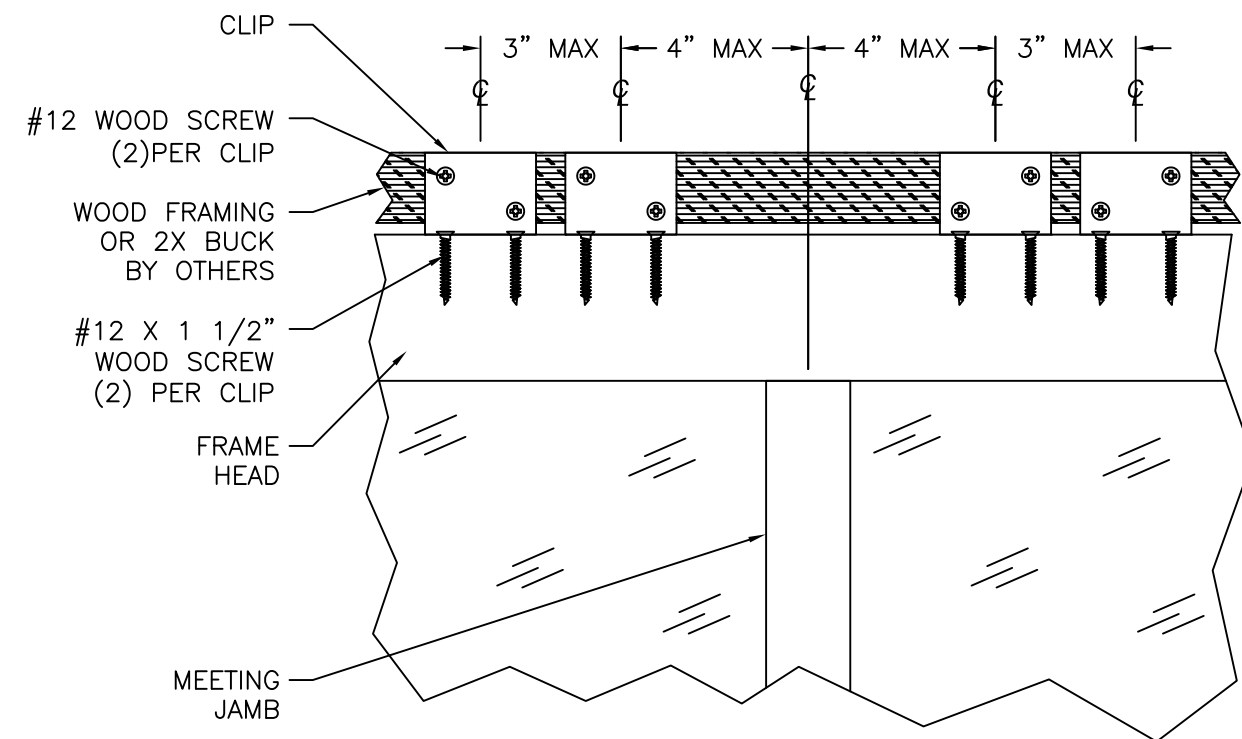
DESIGN PRESSURE RATING	IMPACT RATING
$\pm 70\text{PSF}$	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ

COMBINED WIDTH OF TWO ADJACENT UNITS SHALL NOT EXCEED 120". SEE FORMULA BELOW.

$$\text{COMBINED WIDTH} = W1 + W2 \leq 120"$$

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MULLION INSTALLATION

FRONT VIEW

REFER TO SHEETS 5 AND 6 FOR ADDITIONAL ANCHORING CONFIGURATIONS AND DETAILS

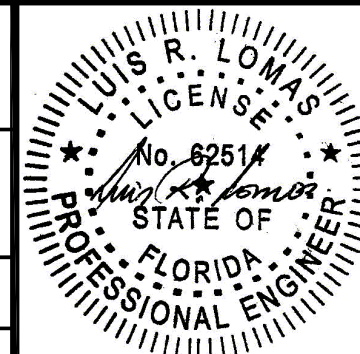
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IMPACT 90" SPAN
ELEVATION

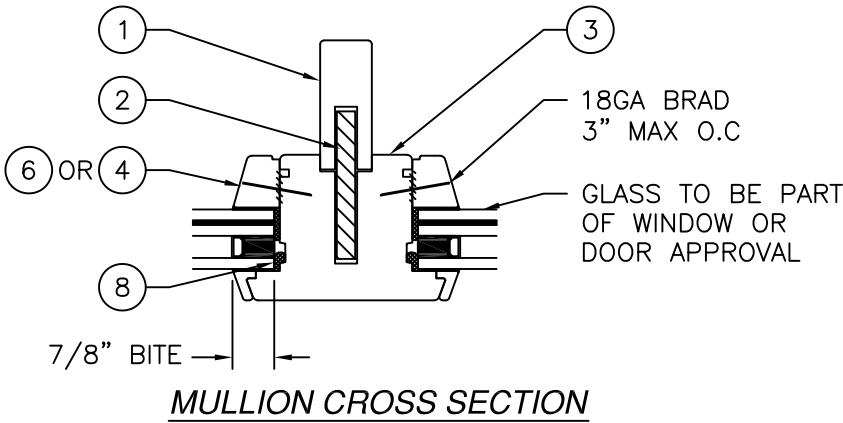
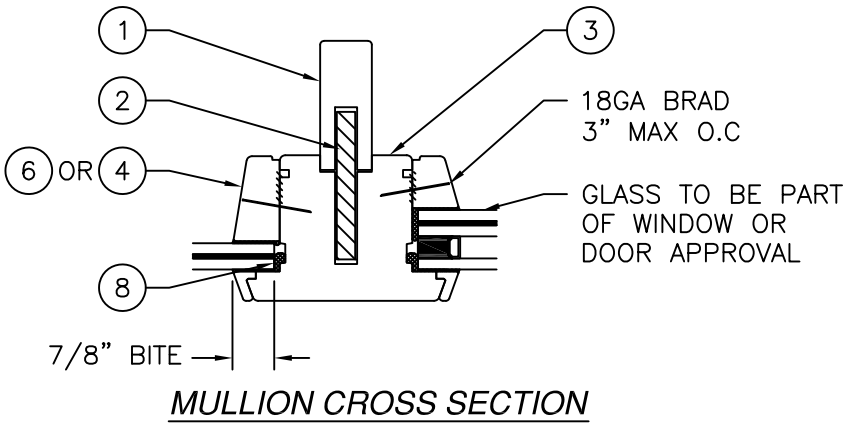
DRAWN: R.L.	DWG NO. 08-01858B	REV B
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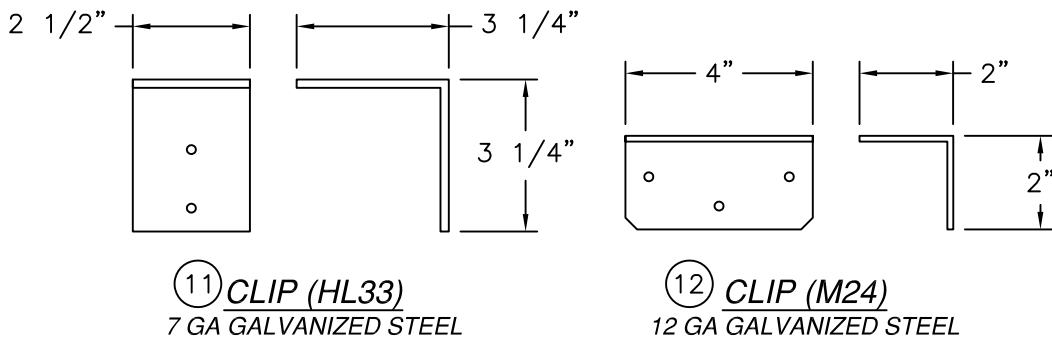
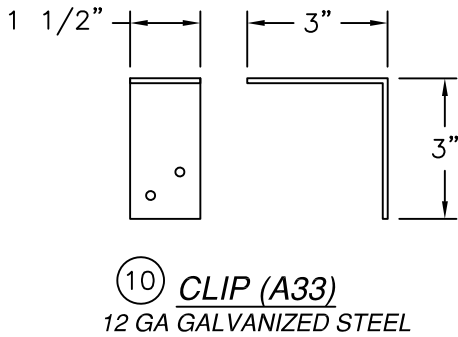
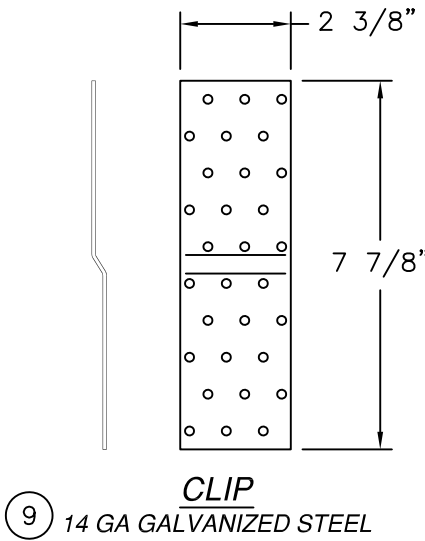
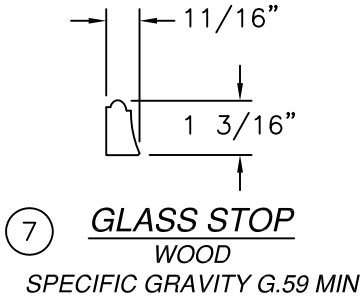
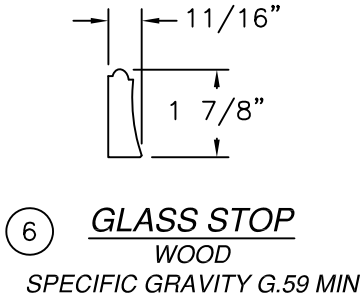
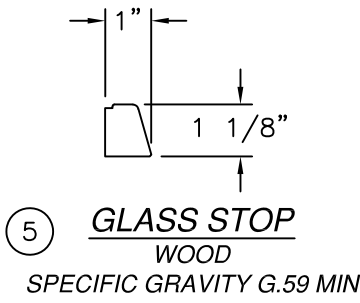
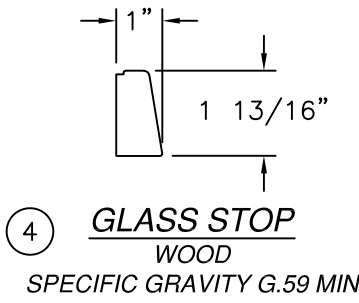
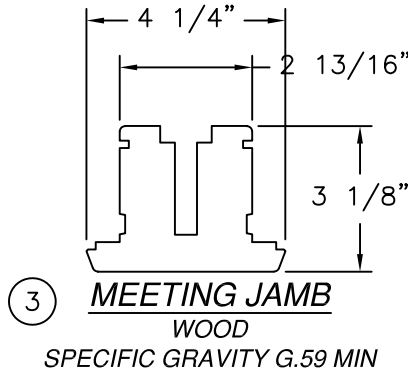
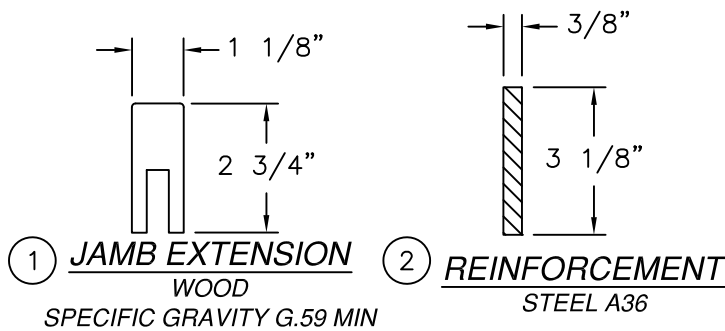
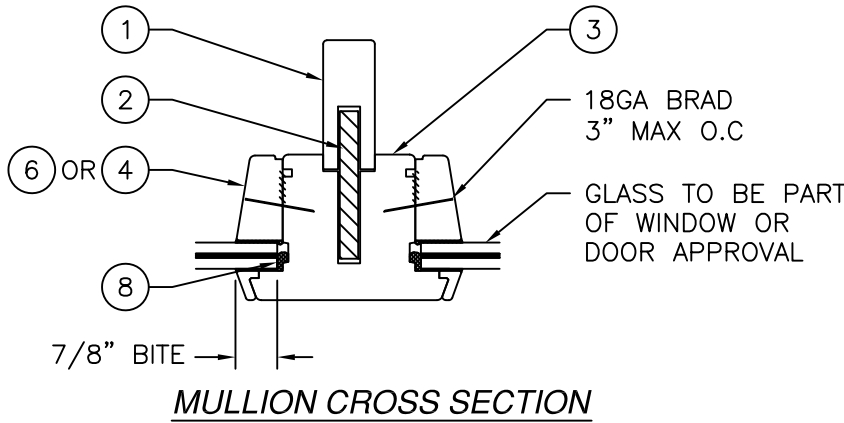


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PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1		JAMB EXTENSION	B&B	WOOD SEE NOTE 5
2		REINFORCEMENT	B&B	STEEL A36
3		MEETING JAMB	B&B	WOOD SEE NOTE 5
4		GLASS STOP	B&B	WOOD SEE NOTE 5
5		GLASS STOP	B&B	WOOD SEE NOTE 5
6		GLASS STOP	B&B	WOOD SEE NOTE 5
7		GLASS STOP	B&B	WOOD SEE NOTE 5
8	552	SIKA FLEX	SIKA	
9		CLIP		GALVANIZED STEEL
10	A33	CLIP (ALTERNATE)	STRONG TIE	GALVANIZED STEEL
11	HL33	CLIP (ALTERNATE)	STRONG TIE	GALVANIZED STEEL
12	M24	CLIP (ALTERNATE)	STRONG TIE	GALVANIZED STEEL



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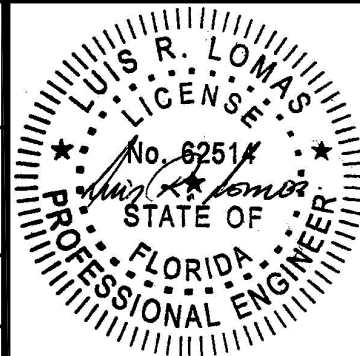
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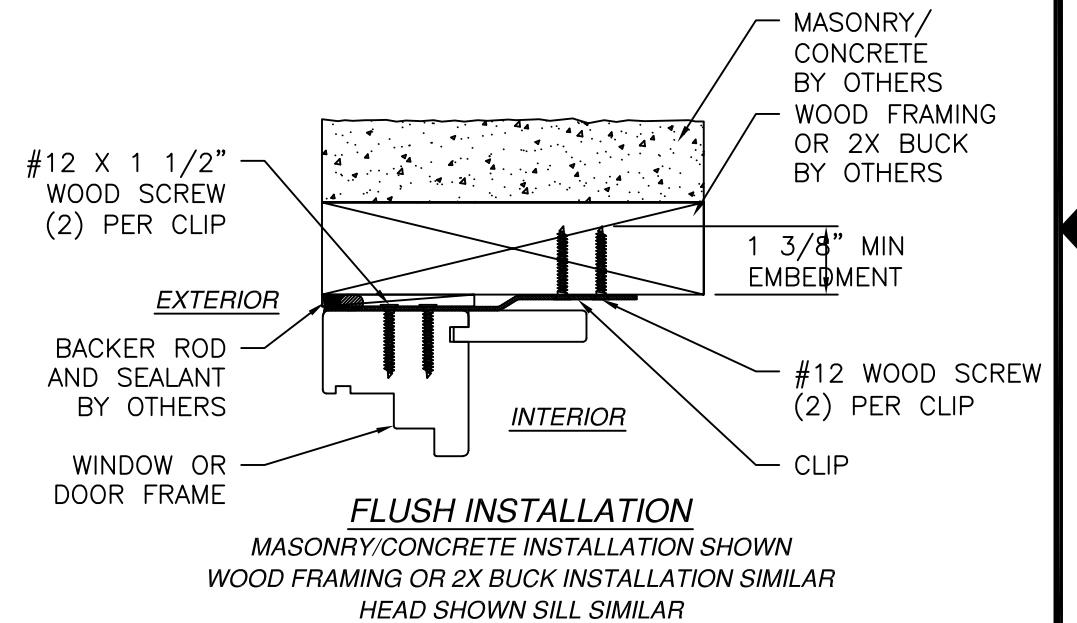
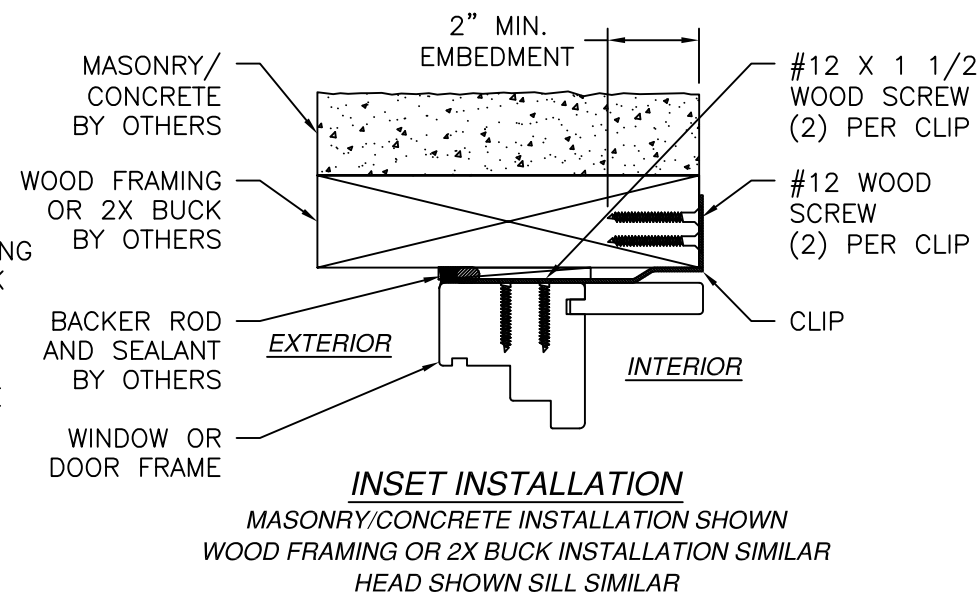
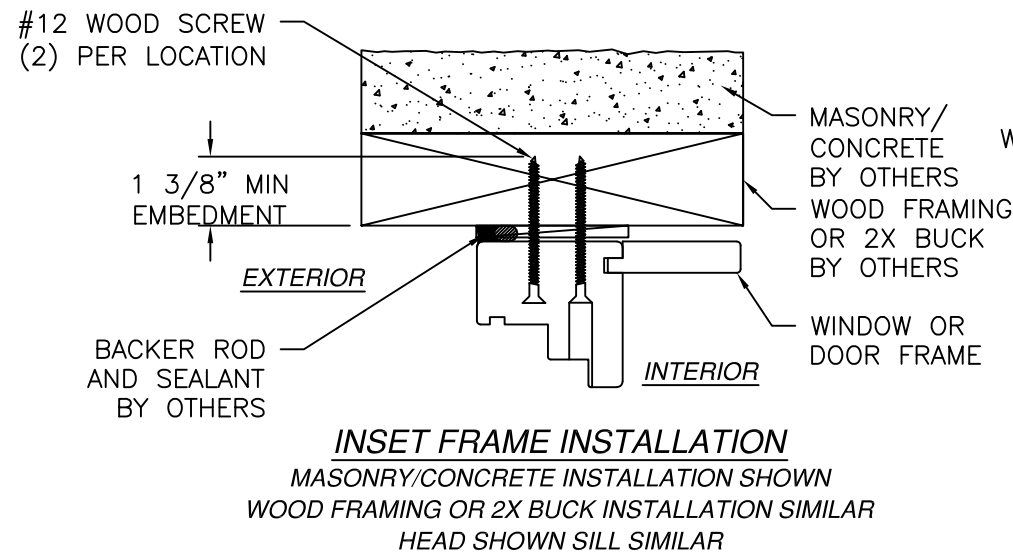
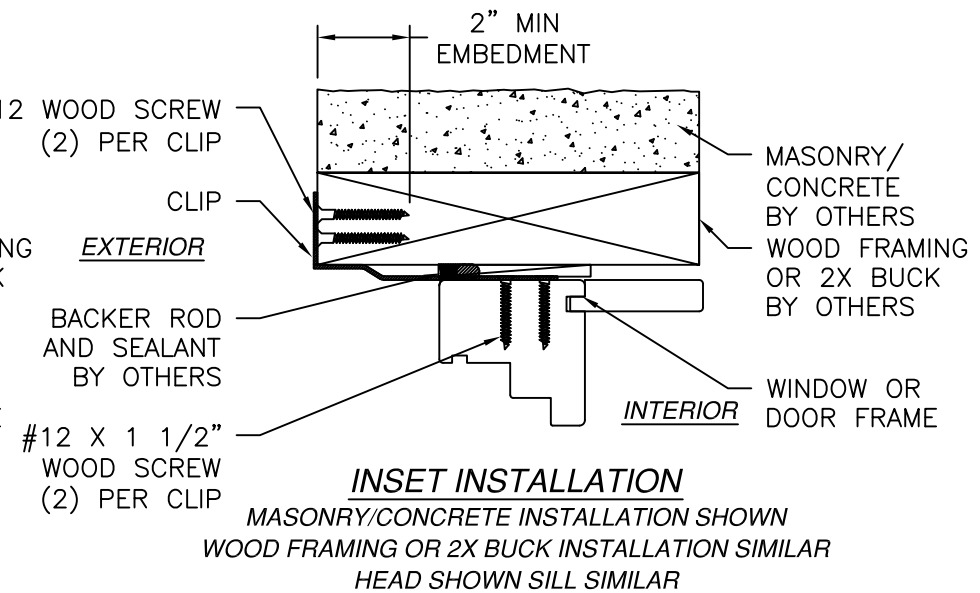
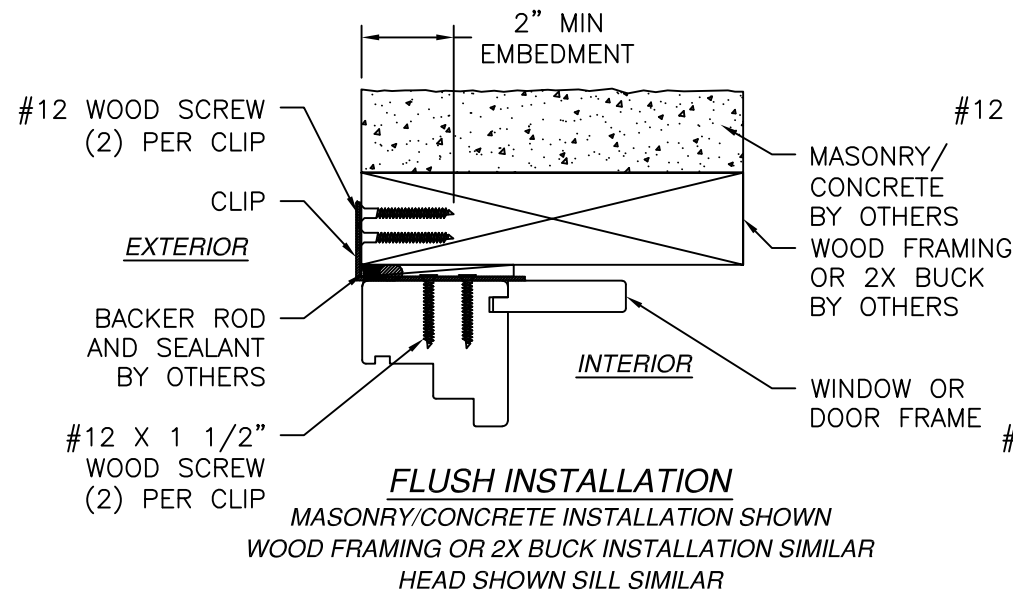
SHEET
3 OF 5

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NOTE:
INTERIOR AND EXTERIOR TRIM, BY OTHERS, NOT SHOWN FOR CLARITY.
WHEN INSTALLING INTO MASONRY OR CONCRETE 2X BUCK TO BE USED. 2X BUCK TO BE PROPERLY SECURED TO STRUCTURE

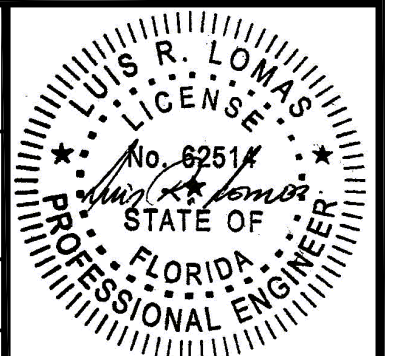
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