REVISIONS						
REV	DESCRIPTION	DATE	APPROVED			
А	REVISED INSTALLATION DETAILS	06/23/15	R.L.			
В	REVISED PER NEW REQUIREMENTS	01/10/18	R.L.			

#### NOTES:

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
- 2. WOOD FRAMING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 3. ALLOWABLE STRESS INCREASE OF 6/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 4. APPROVED IMPACT PROTECTIVE SYSTEM <u>IS NOT REQUIRED</u> FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
- 5. DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
- 6. SINGLE WINDOWS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. WINDOWS ATTACHED TO MULLION MUST HAVE SEPARATE APPROVAL.
- 7. DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW OR DOOR UNIT.
- 8. UNITS MAY BE MULLED TOGETHER INDEFINITELY AS LONG AS SINGLE UNIT WIDTH AND HEIGHT ARE NOT EXCEEDED AND MULLION IS ANCHORED AS SHOWN HEREIN.
- 9. MULLION VERTICAL INSTALLATION IS SHOWN, MULLION MAY BE USED IN HORIZONTAL APPLICATIONS AS LONG AS DIMENSIONS INDICATED HEREIN ARE NOT EXCEEDED AND MULLION IS ANCHORED ACCORDING TO THIS DOCUMENT.

## ANCHORING NOTES:

- 1. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
- 2. FOR ANCHORING INTO CONCRETE USE 3/16" TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT WITH 1 1/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
- 3. 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 INSTALLATION DETAILS.
- 4. FOR ATTACHING WINDOW UNITS TO MULLION USE #10 SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF THREE THREADS PAST THE MULLION WALL. LOCATE SCREWS IN ACCORDANCE WITH WINDOW ANCHORING SCHEDULE AS SHOWN IN WINDOW SEPARATE APPROVAL.
- 5. ALL FASTENERS TO BE CORROSION RESISTANT.
- 6. 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 3,200 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 .060" THICK MINIMUM

EASTERN ARCHITECTURAL SYSTEMS

16341 DOMESTIC AVE

7. TO ATTACH MULLION TO CLIP USE (4)  $\#10 \times 1 \ 1/4"$  SELF DRILLING SCREWS PER CLIP. SCREWS MUST BE FIELD INSTALLED.

SIGNED: 01/19/2018

		AL AL	ACT WINDO	AND VINYL	FORT MYERS, FL 33912 800-432-2204	
	176 VERTICAL MULLION					
	TABLE OF CONTENTS	- IMPACT — WIND ZONE 3 NOTES				
HEET NO.	DESCRIPTION	DRAWN: DWG NO. RE			REV	
1	NOTES	J.L.		08	08-02258	
2	APPROVED CONFIGURATIONS AND CHART	SCALE NTS	NTS DATE 07/18/14 SHEET 1 OF 6			
3 - 5	INSTALLATION DETAILS	L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com				
6	COMPONENTS					

\* No. 6251# \*

No. 6251# \*

No. 6251# \*

STATE OF WILLIAM

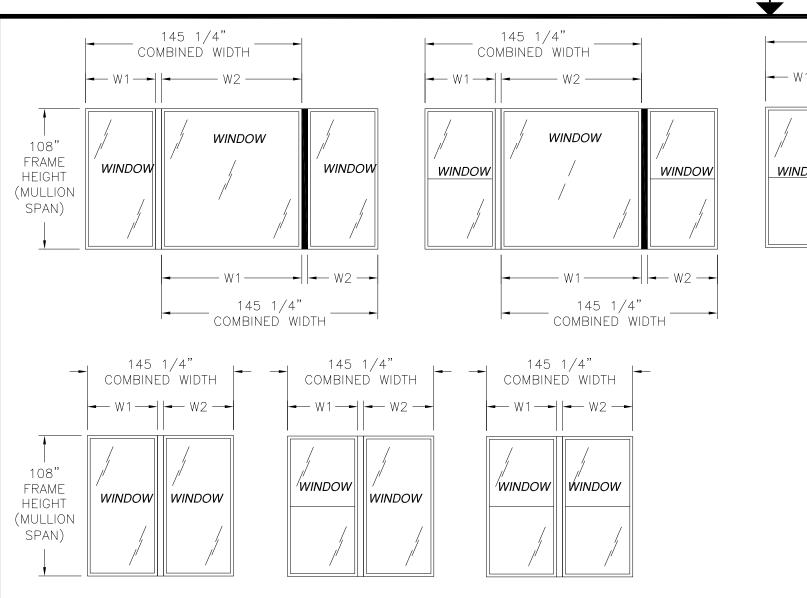
STATE OF WILLIAM

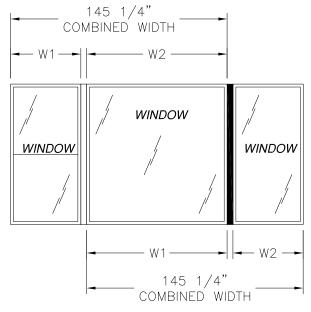
STATE OF WILLIAM

NO. 6251#

NO.

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





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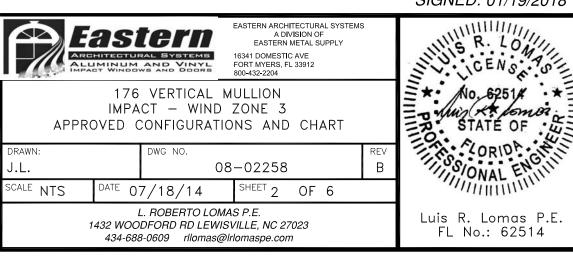
### DESIGN PRESSURE TABLE INSTRUCTIONS:

- 1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
- 2. DETERMINE TRIBUTARY WIDTH AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY WIDTH.
- 3. LOCATE MULLION SPAN (UNIT HEIGHT) AND TRIBUTARY WIDTH. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

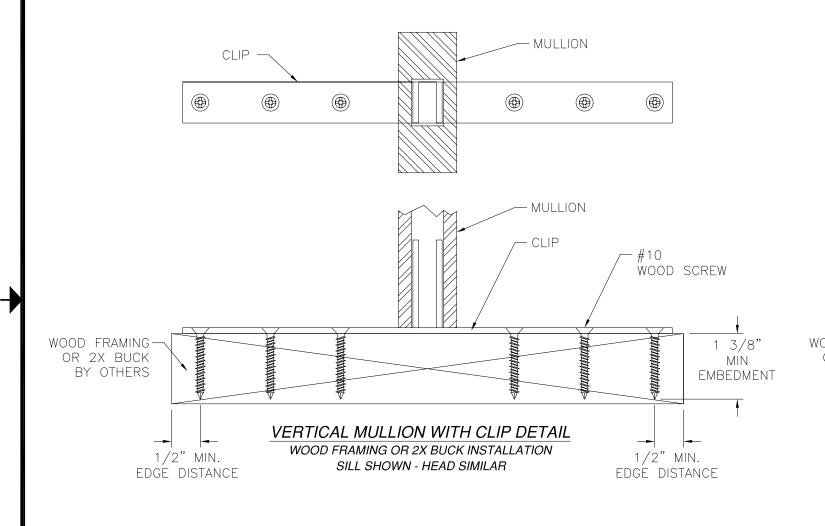
TRIBUTARY WIDTH = 
$$\frac{W1 + W2}{2}$$

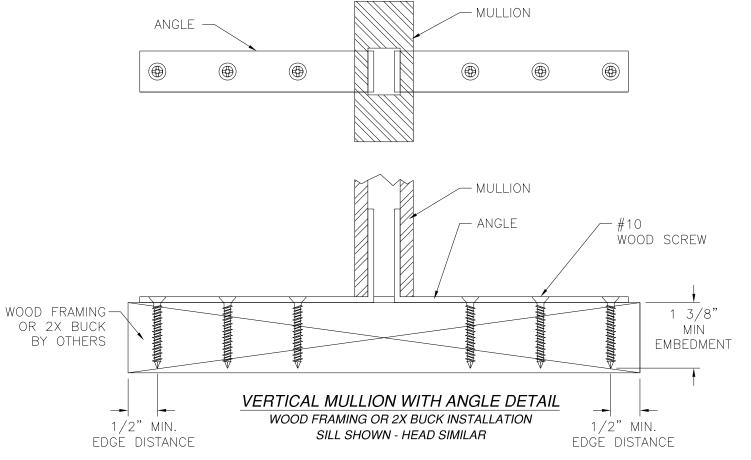
## APPROVED CONFIGURATIONS

Design pressure rating (psf)									
Mullion	Tributary width (in)								
span (in)	24.00	30.00	36.00	42.00	48.00	54.00	60.00	66.00	72.00
24.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
66.00	120.0	120.0	120.0	120.0	119.2	114.1	111.2	110.3	110.3
72.00	120.0	120.0	120.0	112.2	104.3	98.9	95.3	93.3	92.7
78.00	120.0	120.0	111.2	99.4	90.4	83.9	79.5	76.5	74.8
84.00	120.0	104.1	88.8	78.3	70.8	65.3	61.3	58.5	56.6
90.00	103.4	84.1	71.5	62.8	56.5	51.9	48.4	45.9	44.1
96.00	84.9	68.9	58.5	51.2	45.9	42.0	39.0	36.7	35.0
102.00	70.6	57.2	48.4	42.3	37.8	34.4	31.9	29.9	28.4
108.00	59.3	48.0	40.6	35.3	31.5	28.6	26.4	24.7	23.4



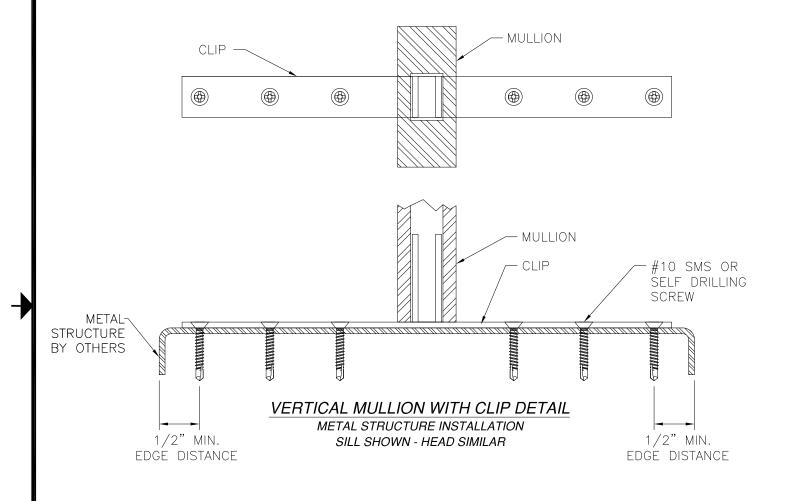
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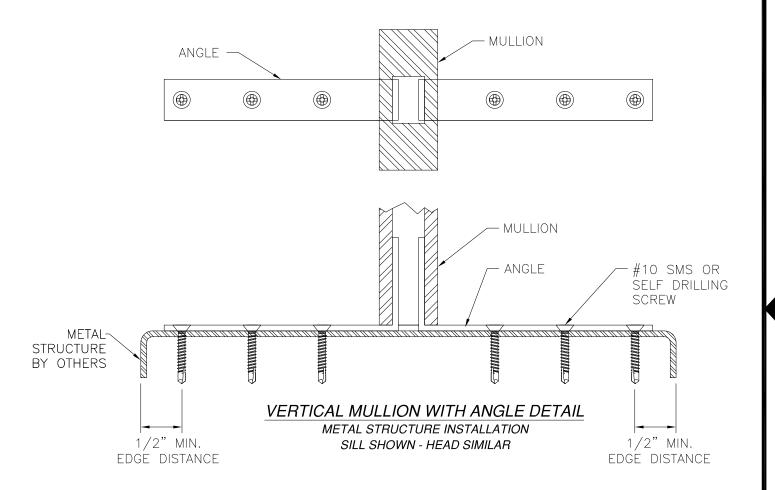




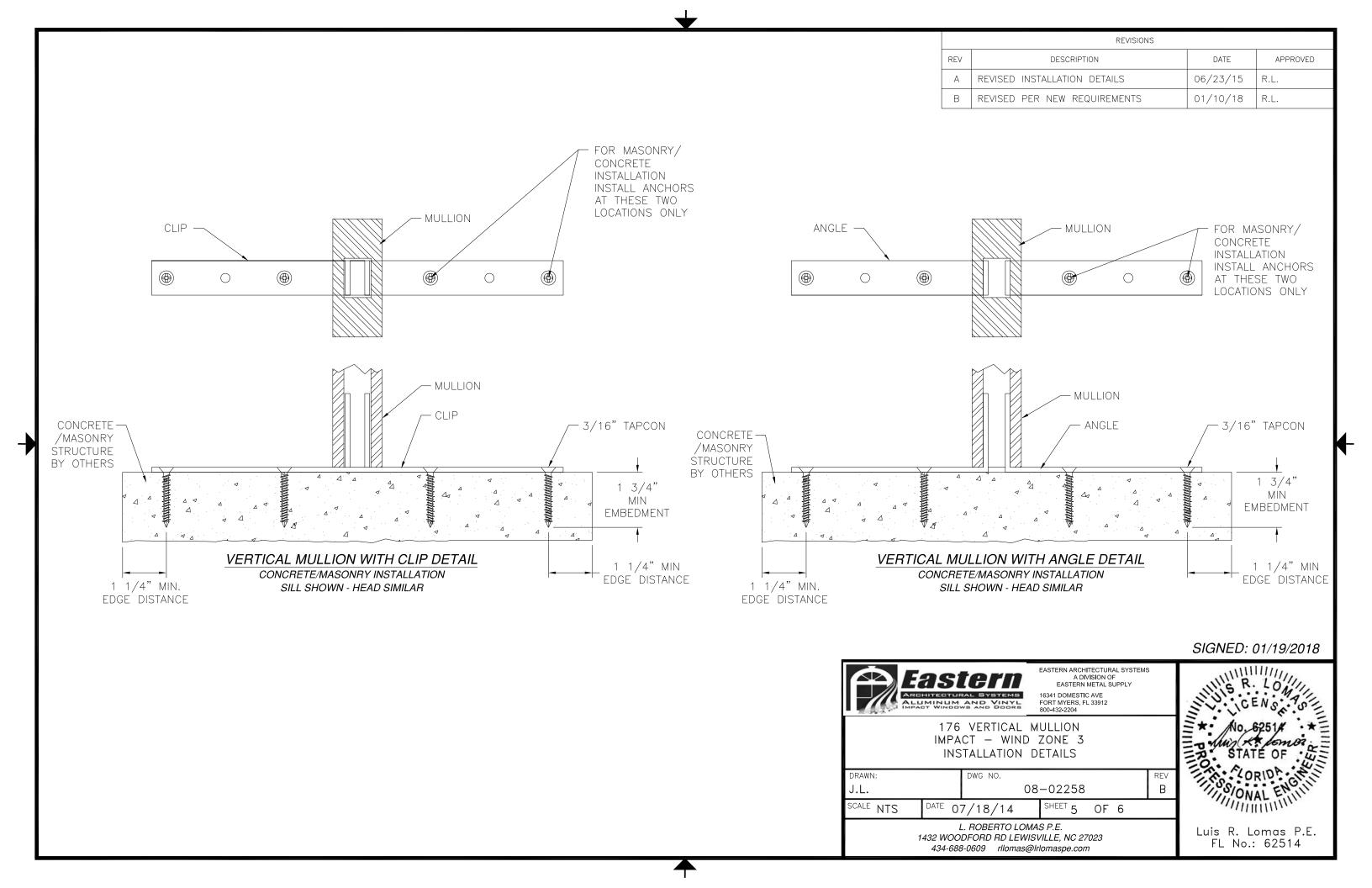


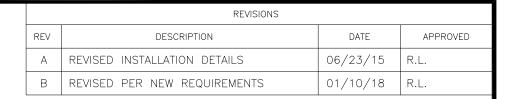
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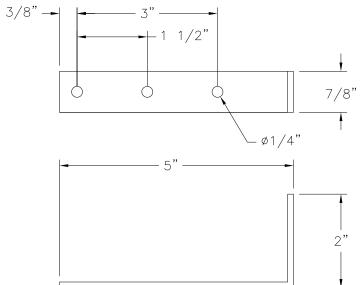












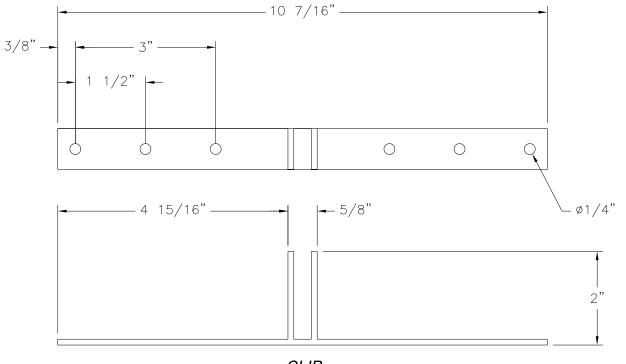
ALUMINUM 6063-T6 .125" THICK MOMENT OF INERTIA: 2.755 IN^4 SECTION MODULUS: 1.864 IN^3

**→**|1 1/4" **→** 

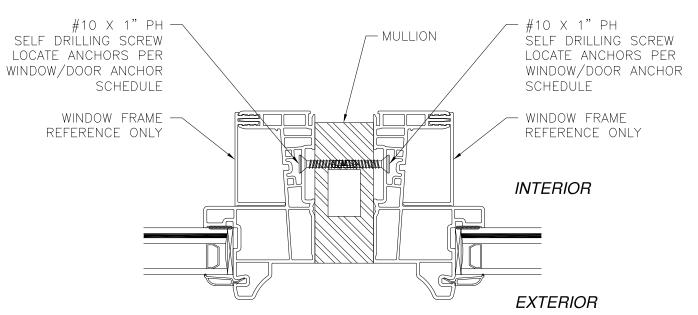
1 1/4"X3" TUBE MULLION

5/16" <del>--</del>

ANGLE ALUMINUM 6063-T6 .125" THICK



<u>CLIP</u> ALUMINUM 6063-T6 .125" THICK



WINDOW TO MULLION INSTALLATION DETAIL
WINDOW FRAME SHOWN FOR DETAIL PURPOSES ONLY
MULLION IS NOT LIMITED TO THIS PRODUCT



