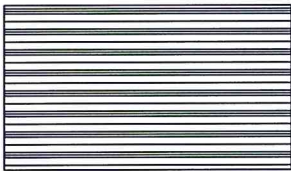


R:\Clients\Eagle Window and Door PERMANENT\Florida Product Approvals\FL-15267 - Windows - Mullions\C - Drawings\FL 15267 (2014)\FL-15267.5.dwg, FL-15267.5

LVL WOOD MULLION



2" x 3.5" LVL WOOD MULLION

GENERAL NOTES:

- 1. This product has been evaluated and is in compliance with the 5th Edition (2014) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone".
- 2. When used in areas requiring wind borne debris protection this product complies with Section 1609.1.2 of the FBC and does not require an impact resistant covering. This product meets missile level "D" and excludes Wind Zone 4 as defined in ASTM E 1996 and Section 1609.1.2.2 of the FBC.
- 3. Wood bucks by others, must be anchored properly to transfer loads to the structure and be reviewed by the Building Official.
- 4. Mullion anchor embedment to base material shall be beyond wall dressing or stucco.
- 5. Separate product approvals for each glazing product used with these mullions must be submitted along with this mullion product approval.
- 6. Anchoring of each glazing product to the mullion shall be as shown in each individual glazing product approval.
- 7. Any conditions not covered in this evaluation are subject to separate Engineering evaluation.
- 8. Mullion design pressure rating, see load rating table sheets 2 - 6 of this drawing.
- 9. The design pressure rating of the assembly shall be the lesser of the load capacity of the mullion as determined using this approval or the design pressure rating of the individual glazing products used.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations & General Notes
2	Mullion Load Table: Anchor Clip B4 (Concrete Screws)
3	Mullion Load Table: Anchor Clip B4 (Wood Screws)
4	Mullion Load Table: Anchor Clip B1 (Concrete Screws)
5	Mullion Load Table: Anchor Clip B1 (Wood Screws)
6	Mullion Load Table: Anchor Plate (Wood/Concrete Screws)
7	Anchor Clip B4: Anchoring Details
8	Anchor Clip B1: Anchoring Details
9	Mullion Anchor Plate: Anchoring Details



TYPICAL MULLION CONFIGURATIONS

4/27/15

FL SCHMIDT

LICENSE

No. 43409

STATE OF FLORIDA

PROFESSIONAL ENGINEER

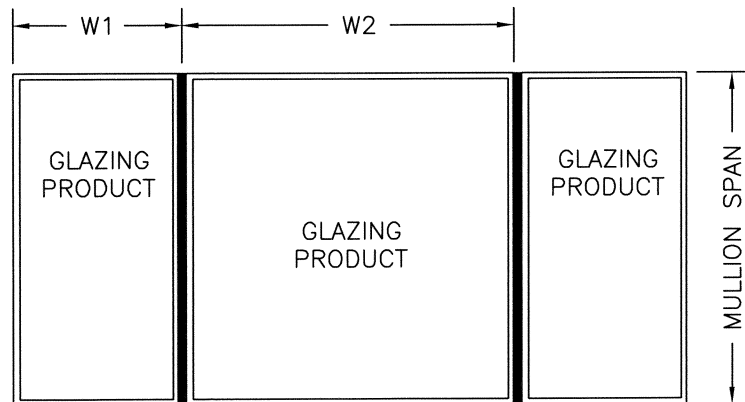
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW

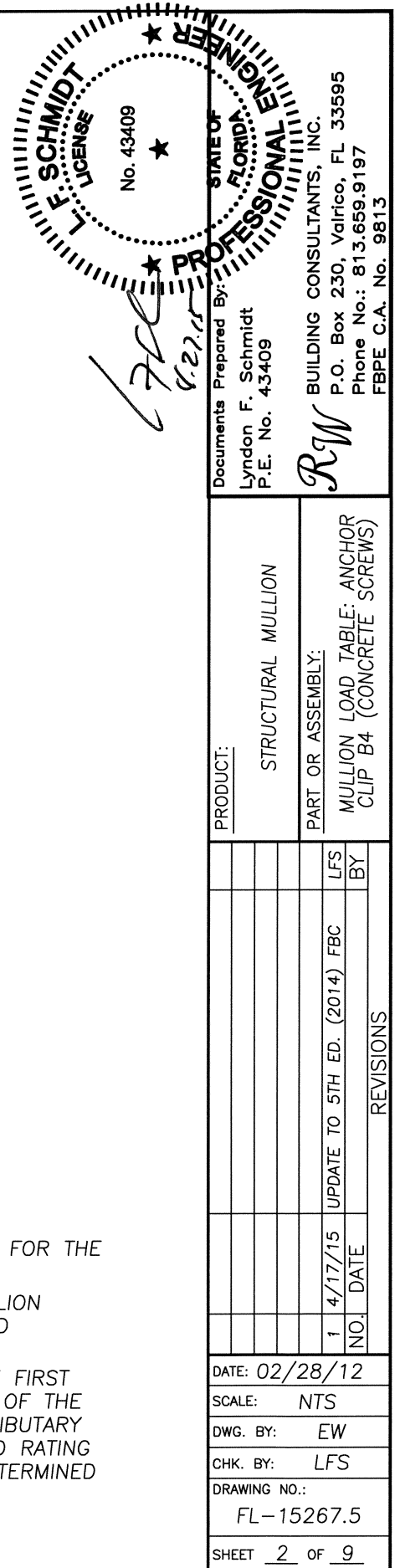
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT:		STRUCTURAL MULLION			
PART OR ASSEMBLY:		TYPICAL ELEVATION & GENERAL NOTES			
NO.	DATE	UPDATE TO 5TH ED. (2014) FBC	LFS		
			BY		
REVISIONS					
DATE: 02/28/12					
SCALE: NTS					
DWG. BY: EW					
CHK. BY: LFS					
DRAWING NO.: FL-15267.5					
SHEET 1 OF 9					

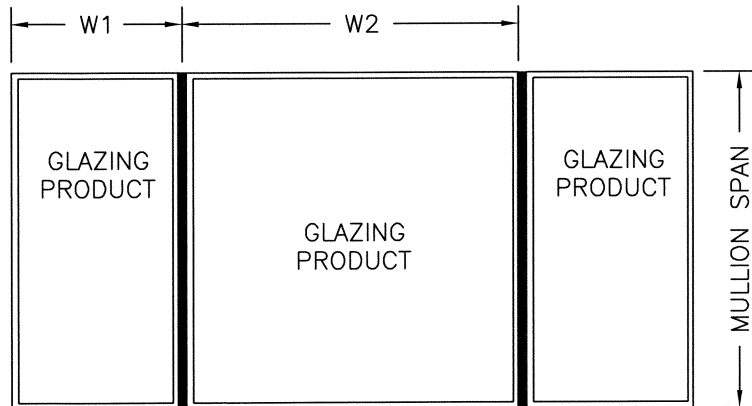
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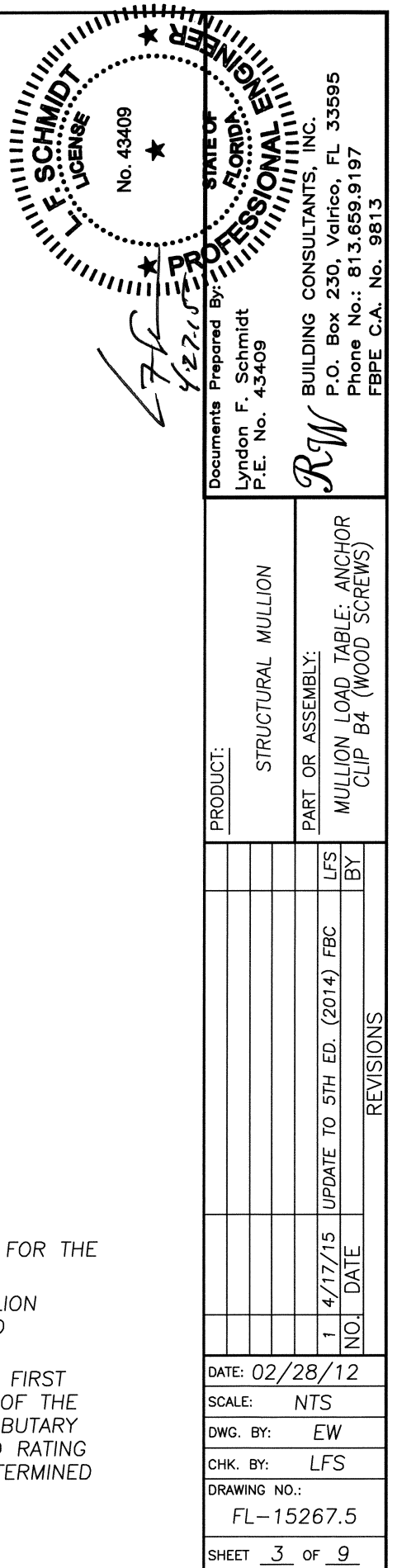
1. DETERMINE THE DESIGN LOAD REQUIREMENT PER CHAPTER 16 OF THE FBC FOR THE PARTICULAR OPENING.
2. FOR THE PARTICULAR OPENING, DETERMINE THE TRIBUTARY WIDTH AND MULLION SPAN. REFERENCE THE SKETCHES ON THIS SHEET FOR MULLION SPAN AND TRIBUTARY WIDTH DETERMINATION.
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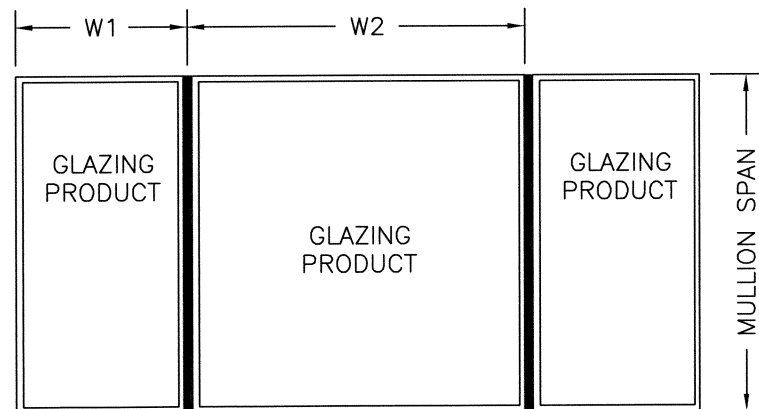
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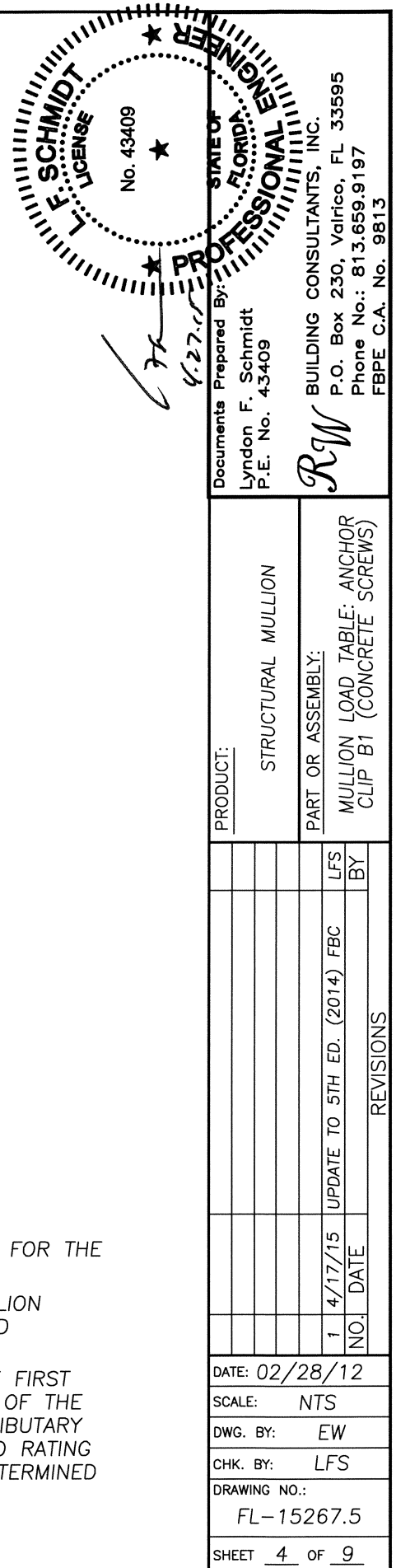
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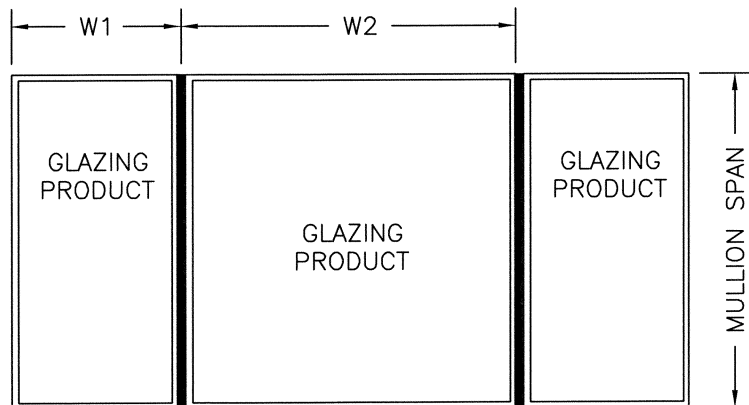
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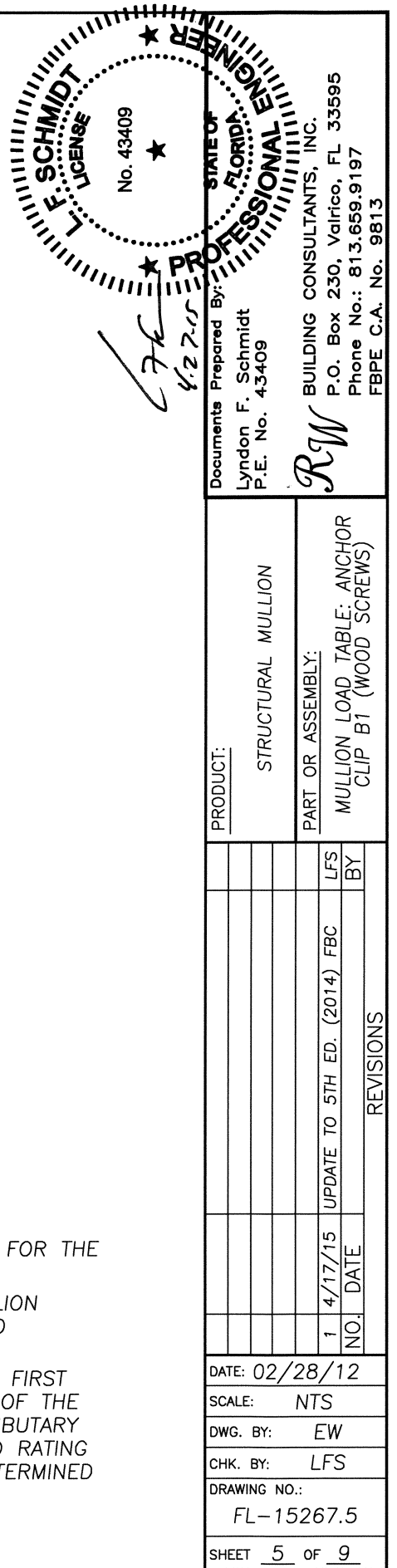
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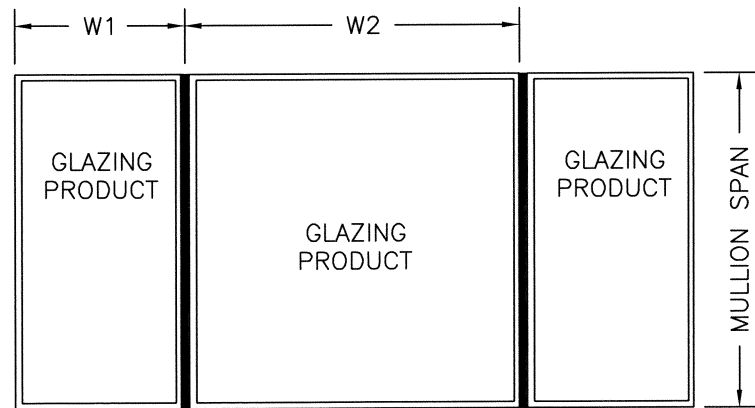
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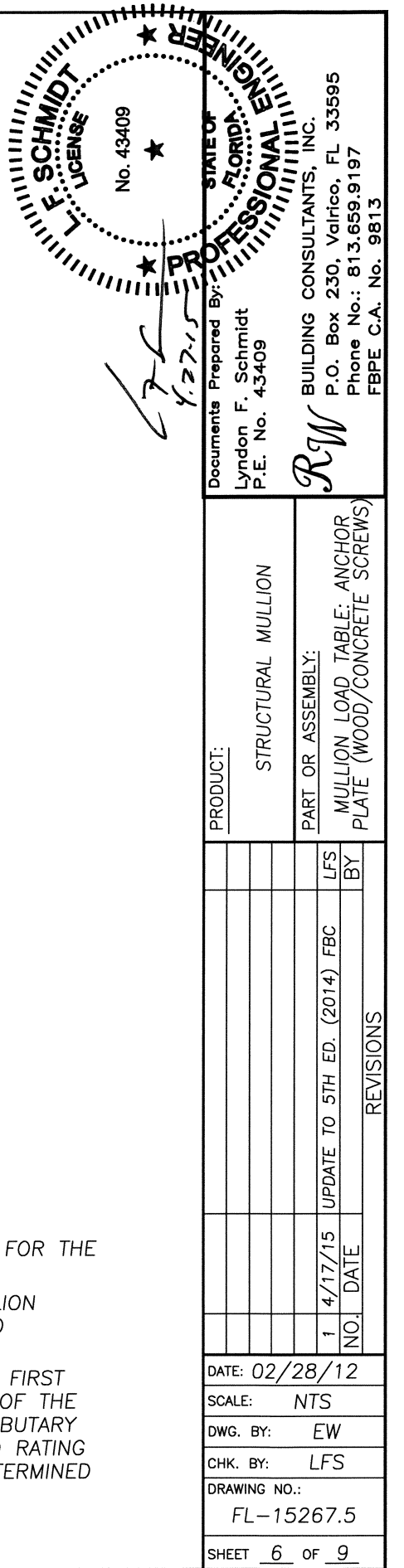


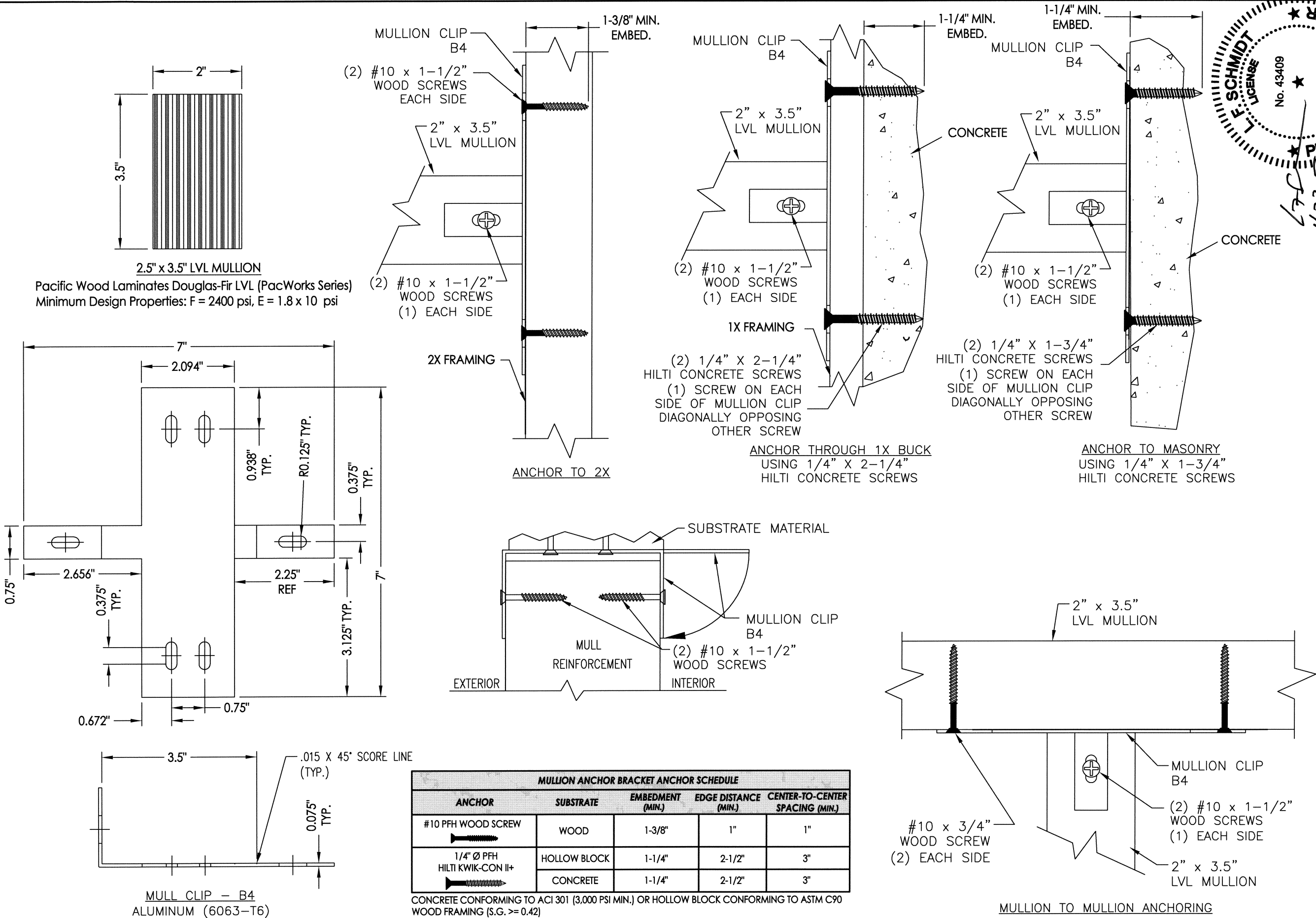
$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$



WOOD OR CONCRETE SCREW		2" x 3.5" LVL STRUCTRUAL BEAM MULLION LOAD TABLE (PSF) - ANCHOR PLATE												
		TRIBUTARY WIDTH												
		24.0"	28.0"	30.0"	32.0"	34.0"	36.0"	38.0"	40.0"	42.0"	44.0"	46.0"	48.0"	50.0"
MULLION SPAN	120.0"	15.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	116.0"	17.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	112.0"	18.98	16.44	15.42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	108.0"	21.22	18.38	17.25	16.26	15.39	NA	NA	NA	NA	NA	NA	NA	NA
	104.0"	23.82	20.65	19.38	18.27	17.30	16.43	15.66	NA	NA	NA	NA	NA	NA
	100.0"	26.87	23.30	21.88	20.63	19.53	18.56	17.69	16.91	16.20	15.56	NA	NA	NA
	96.0"	30.45	26.43	24.82	23.41	22.17	21.07	20.09	19.21	18.41	17.69	17.03	16.43	15.87
	92.0"	34.20	30.07	28.31	26.72	25.31	24.06	22.95	21.95	21.04	20.23	19.48	18.79	18.15
	88.0"	36.00	31.69	29.98	28.50	27.20	26.06	25.04	24.14	23.33	22.61	21.95	21.32	20.73
	84.0"	38.00	33.50	31.72	30.18	28.83	27.64	26.58	25.65	24.82	24.05	23.33	22.66	22.02
	80.0"	40.24	35.53	33.67	32.06	30.66	29.42	28.33	27.36	26.48	25.65	24.87	24.14	23.45
	76.0"	42.75	37.82	35.88	34.20	32.73	31.45	30.32	29.29	28.33	27.43	26.58	25.79	25.04
	72.0"	45.60	40.43	38.40	36.64	35.11	33.78	32.57	31.45	30.40	29.42	28.50	27.64	26.82
	68.0"	48.86	43.43	41.30	39.46	37.87	36.44	35.11	33.88	32.73	31.66	30.66	29.71	28.83
	64.0"	52.62	46.90	44.67	42.75	41.04	39.46	38.00	36.64	35.38	34.20	33.10	32.06	31.09
	60.0"	57.00	50.98	48.64	46.57	44.67	42.92	41.30	39.80	38.40	37.10	35.88	34.74	33.67
	56.0"	62.18	55.84	53.30	50.98	48.86	46.90	45.10	43.43	41.88	40.43	39.09	37.82	36.64
	52.0"	68.40	61.60	58.73	56.12	53.73	51.54	49.52	47.65	45.92	44.31	42.81	41.40	40.09
	48.0"	76.00	68.40	65.14	62.18	59.48	57.00	54.72	52.62	50.67	48.86	47.17	45.60	44.13
	44.0"	85.28	76.53	72.80	69.41	66.33	63.50	60.91	58.52	56.32	54.27	52.36	50.59	48.93
40.0"	96.56	86.40	82.08	78.17	74.62	71.37	68.40	65.66	63.14	60.80	58.63	56.61	54.72	
36.0"	110.55	98.59	93.54	88.98	84.84	81.07	77.62	74.45	71.53	68.83	66.33	64.00	61.83	
32.0"	128.25	114.00	108.00	102.60	97.71	93.27	89.22	85.50	82.08	78.92	76.00	73.29	70.76	
28.0"	150.00	134.01	126.76	120.26	114.40	109.08	104.23	99.79	95.72	91.97	88.50	85.28	82.29	
24.0"	150.00	150.00	150.00	144.00	136.80	130.29	124.36	118.96	114.00	109.44	105.23	101.33	97.71	
20.0"	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	145.92	139.71	134.01	128.75	123.89	

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Professional Engineer
F. SCHMIDT
License No. 43409
State of Florida
Professional Engineer
4.27.15

Documents Prepared By: Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT: STRUCTURAL MULLION

PART OR ASSEMBLY: ANCHORING CLIP B4 ANCHORING DETAILS

DATE: 02/28/12

SCALE: NTS

DWG. BY: EW

CHK. BY: LFS

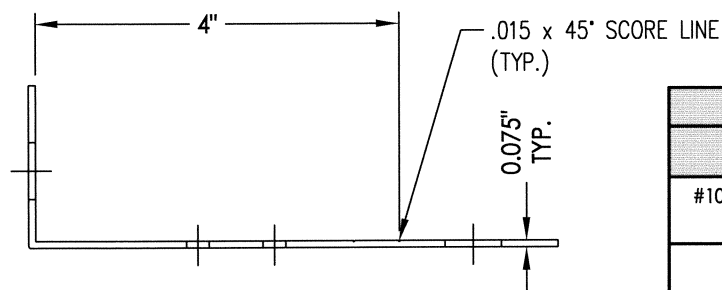
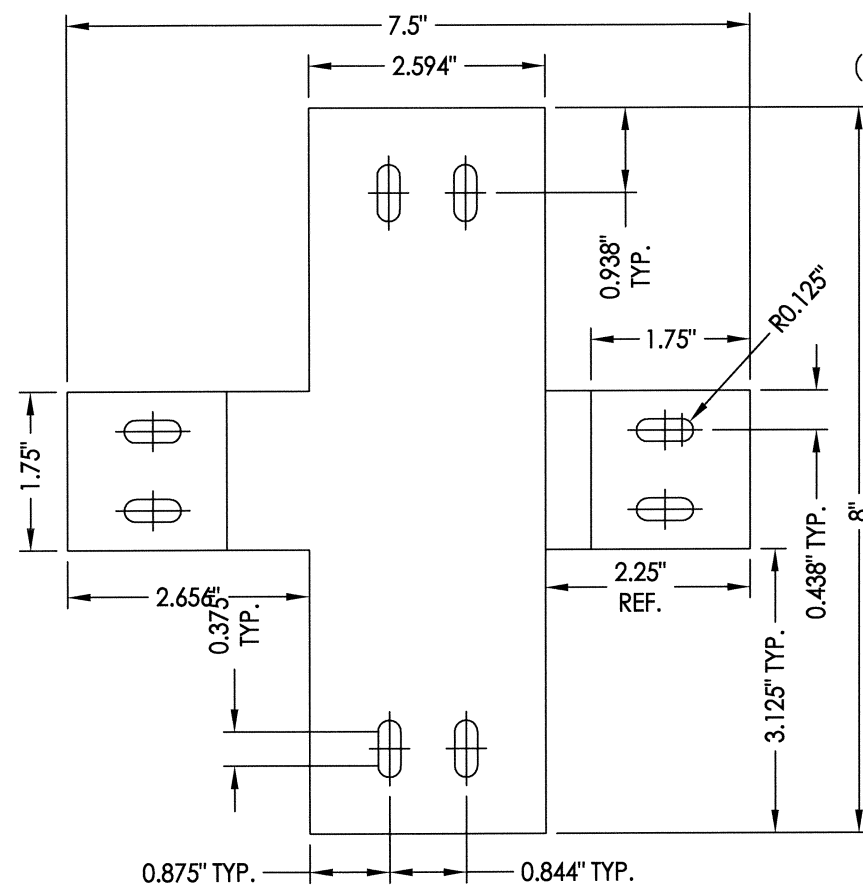
DRAWING NO.: FL-15267.5

SHEET 7 OF 9

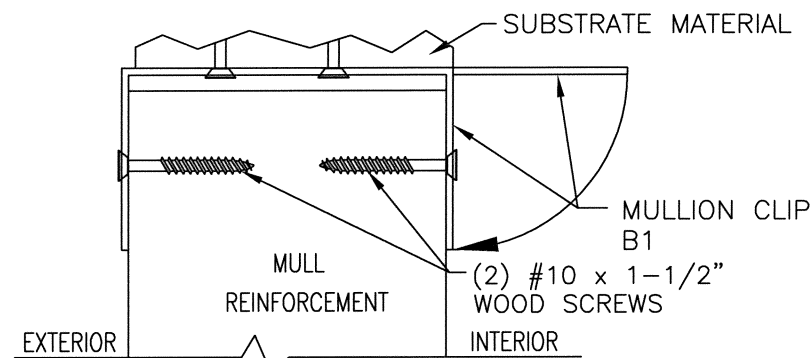
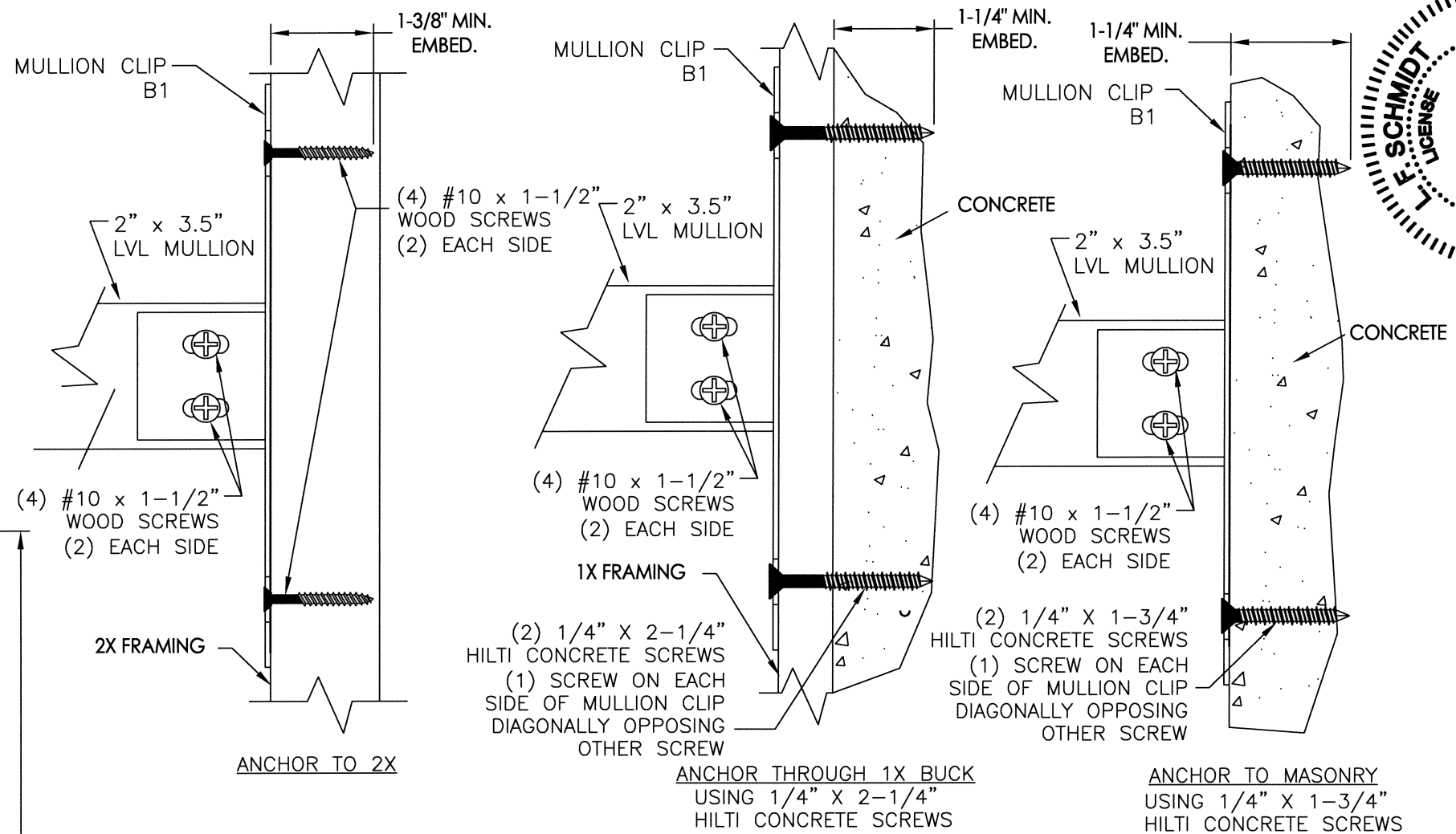
REVISIONS

NO.	DATE	DESCRIPTION
1	4/17/15	UPDATE TO 5TH ED. (2014) FBC

Pacific Wood Laminates Douglas-Fir LVL (PacWorks Series)
Minimum Design Properties: F = 2400 psi, E = 1.8 x 10⁶ psi



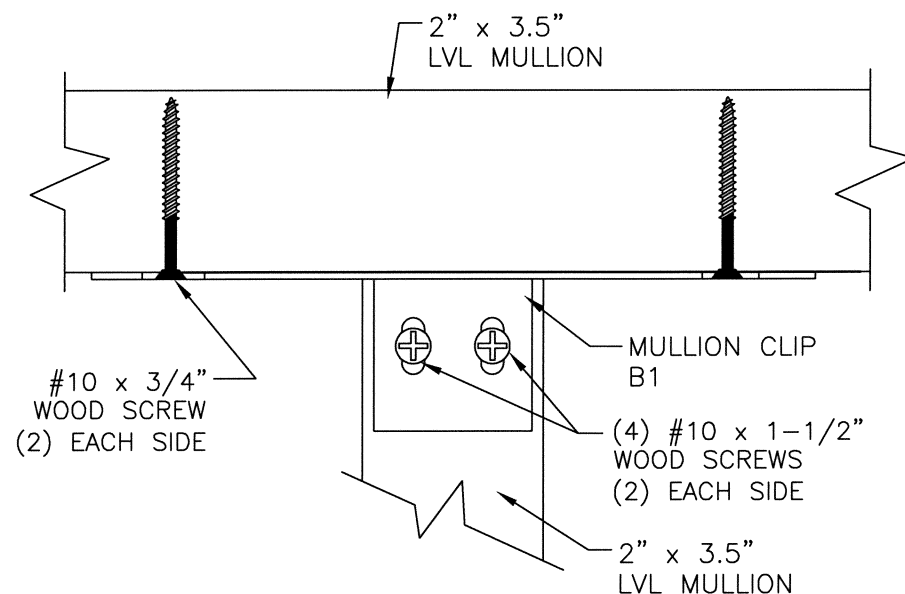
MULL CLIP - B1
ALUMINUM (6063-T6)



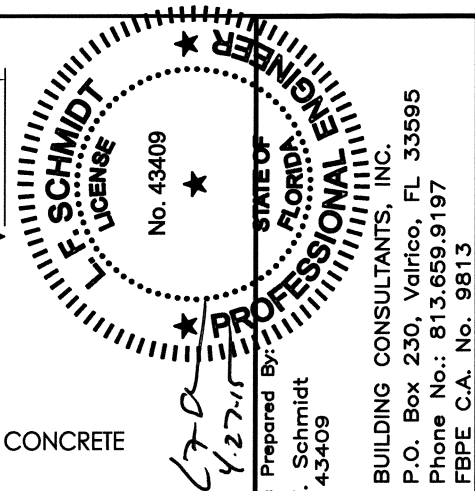
SEE 2X, 1X TO INSTALLATION PROCEDURE
MASONRY & MASONRY ANCHORING ABOVE

MULLION ANCHOR BRACKET ANCHOR SCHEDULE				
ANCHOR	SUBSTRATE	EMBEDMENT (MIN.)	EDGE DISTANCE (MIN.)	CENTER-TO-CENTER SPACING (MIN.)
#10 PFH WOOD SCREW 	WOOD	1-3/8"	1"	1"
1/4" Ø PFH HILTI KWIK-CON II+ 	HOLLOW BLOCK	1-1/4"	2-1/2"	3"
	CONCRETE	1-1/4"	2-1/2"	3"

CONCRETE CONFORMING TO ACI 301 (3,000 PSI MIN.) OR HOLLOW BLOCK CONFORMING TO ASTM C90
WOOD FRAMING (S.G. ≥ 0.42)



MULLION TO MULLION ANCHORING

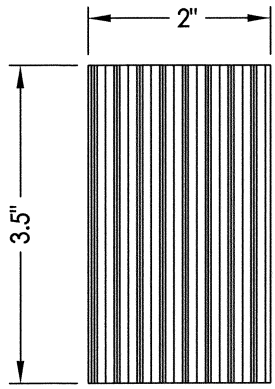


Documents Prepared By: Lyndon F. Schmidt
P.E. No. 43409

R^W BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 333
Phone No.: 813.659.9197
FBPE C.A. No. 9813

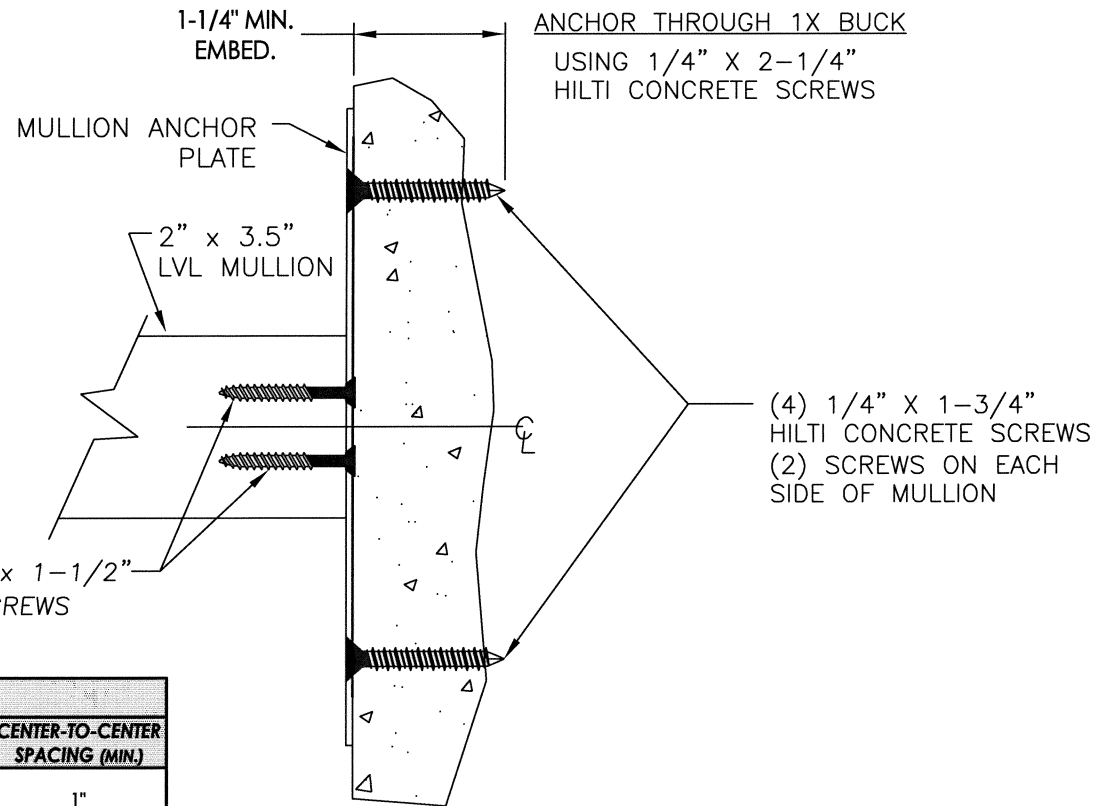
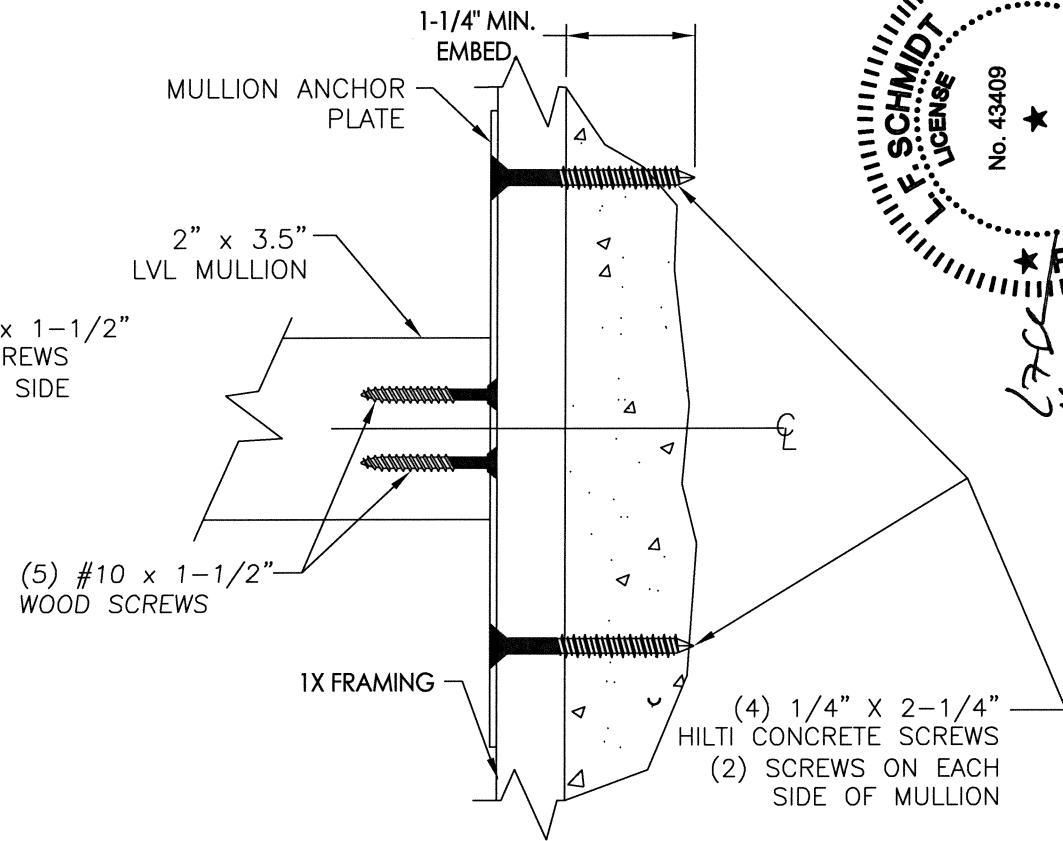
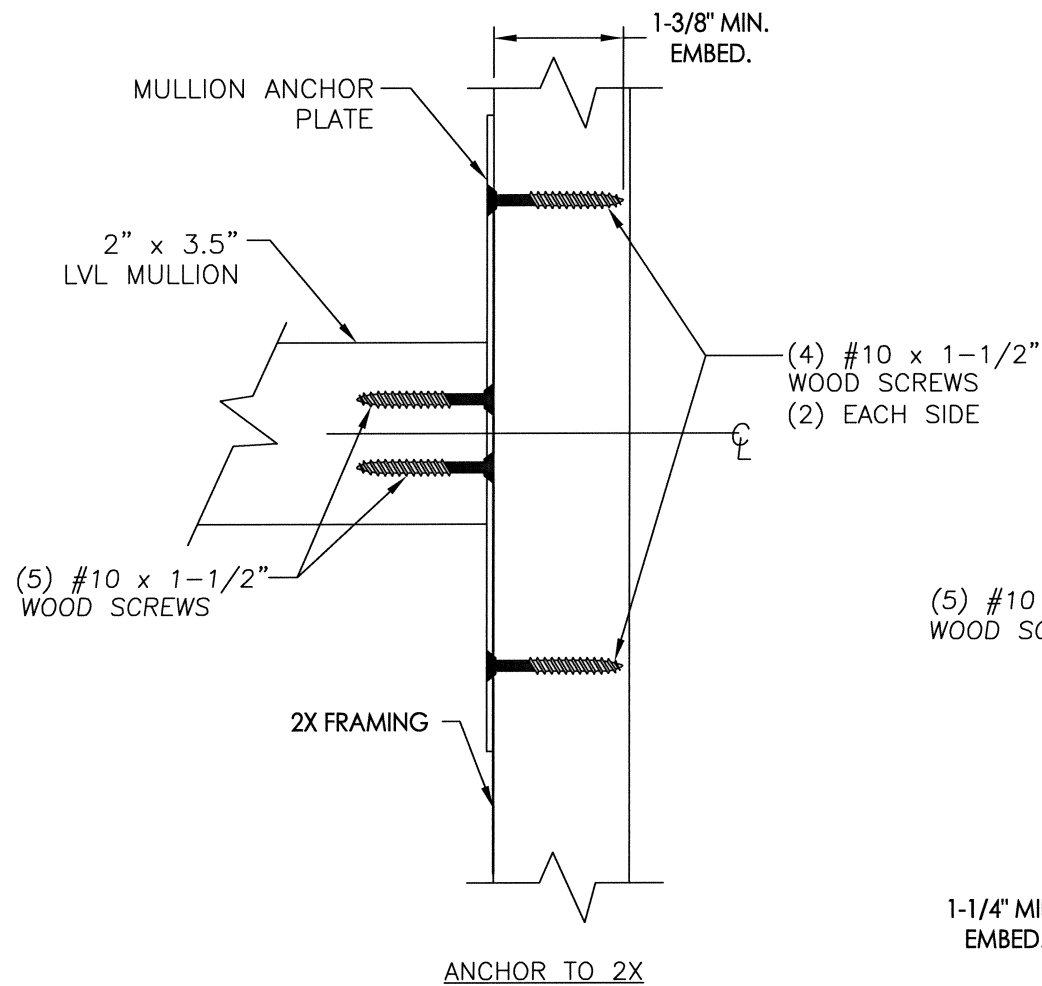
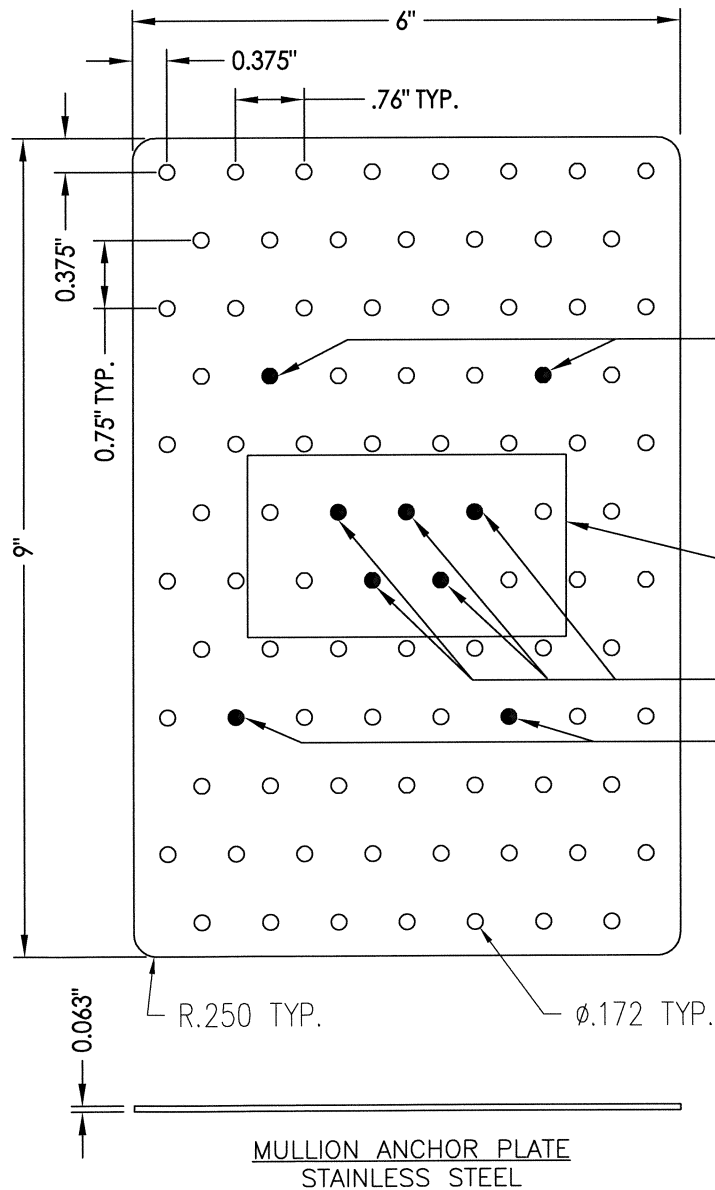
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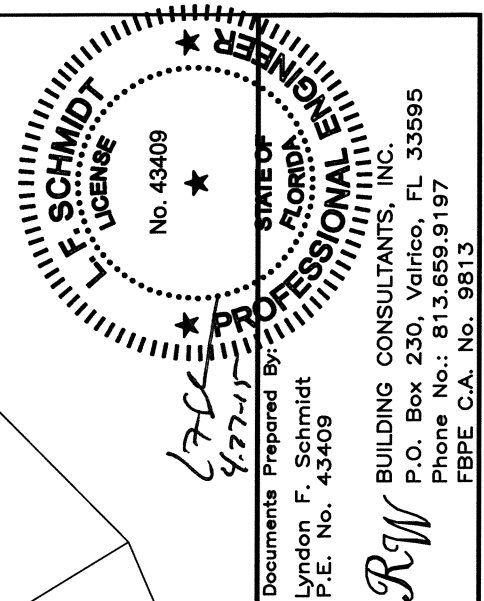
2.5" x 3.5" LVL MULLION

Pacific Wood Laminates Douglas-Fir LVL (PacWorks Series)
Minimum Design Properties: F = 2400 psi, E = 1.8 x 10 psi



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RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT:		PART OR ASSEMBLY:	
STRUCTURAL MULLION		MULLION ANCHOR PLATE: ANCHORING DETAILS	
NO.	DATE	BY	REVISIONS
1	4/17/15	LFS	UPDATE TO 5TH ED. (2014) FBC
DATE: 02/28/12			
SCALE: NTS			
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DRAWING NO.: FL-15267.5			
SHEET 9 OF 9			