



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)  
BOARD AND CODE ADMINISTRATION DIVISION

**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/pera/](http://www.miamidade.gov/pera/)

**Sunshine Windows Manufacturing, Inc.**  
1745 W 33<sup>rd</sup> Place  
Hialeah, FL 33012

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Clipped, Extruded Aluminum Tube Mullion – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No.SW-01-07 titled "Aluminum Tube Mullion," sheets 1 through 7 of 7, dated 09/30/05, prepared by manufacturer, signed and sealed by Francisco Hernandez, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA renews NOA # 06-0214.02 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 12-0201.01  
Expiration Date: January 25, 2013  
Approval Date: February 09, 2012  
Page 1

**Sunshine Windows Manufacturing, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **SW-01-07**, Sheets 1 through 7 of 7, titled "Aluminum Tube Mullion", dated 09/30/05, prepared by manufacturer, signed and sealed by Francisco Hernandez, P.E.

**B. TESTS**

1. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94.  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94.  
along with marked-up drawings and installation diagram of aluminum single hung windows mullied together, prepared by Fenestration Testing Laboratory, Inc. Test Report No. **FTL-2680**, dated 06/29/00, signed and sealed by Aldo P. Gonzalez, P.E.  
*(Submitted Under NOA 01-1226.14)*

**C. CALCULATIONS**

1. Anchor Calculations and structural analysis, complying with FBC-2007 and FBC-2010, prepared by manufacturer, dated 09/30/05, revised on 01/15/07, and updated on 12/10/11, signed and sealed by Francisco Hernandez, P.E.
2. Glazing complies with ASTM E1300-04

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

**E. MATERIAL CERTIFICATIONS**

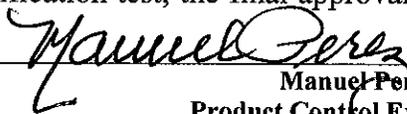
1. None.

**F. STATEMENTS**

1. Statement letter of conformance, complying with FBC-2007 and FBC-2010, dated December 10, 2011, signed and sealed by Francisco Hernandez, P.E.
2. Statement letter of no financial interest, dated January 15, 2007, signed and sealed Francisco Hernandez, P.E.
3. Letter from manufacturer dated 12/19/11, requesting a 1-year renewal to allow time to perform required additional testing, signed by Noel Martinez, Assistant Manger

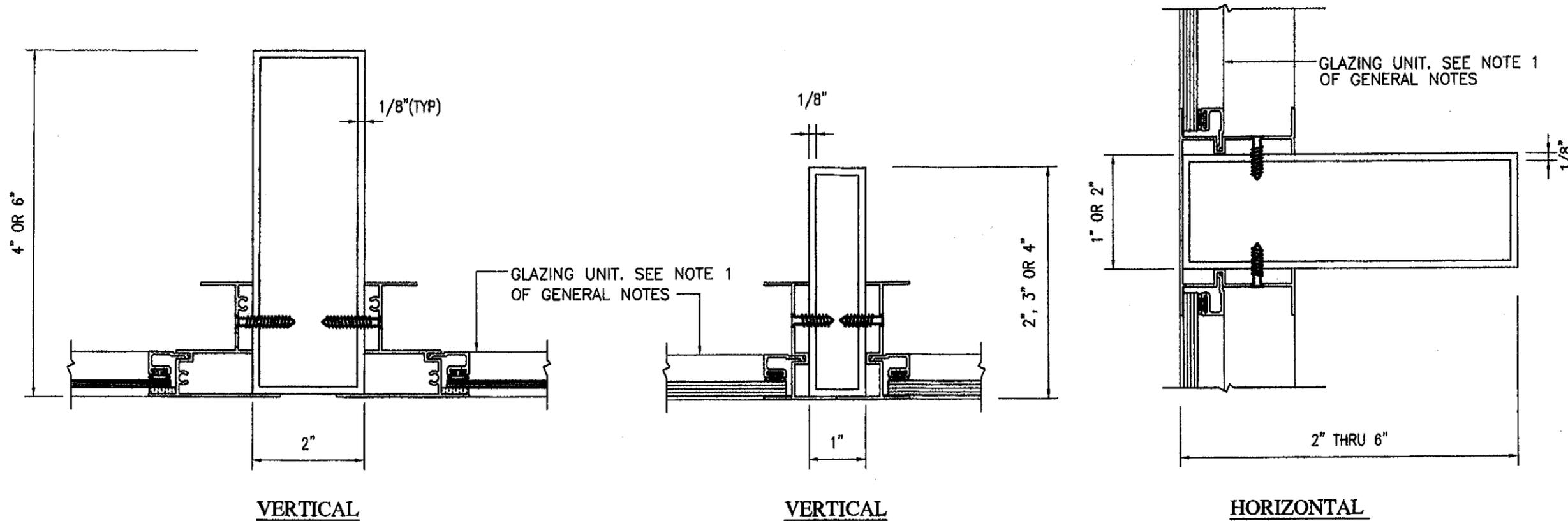
**G. OTHER**

1. Notice of Acceptance No. **06-0214.02**, issued to Sunshine Windows Manufacturing, Inc. for their Aluminum Tube Mullion – L.M.I., approved on 02/22/07 and expiring on 01/25/12.
2. One year approval, subjected to successful verification test, the final approval will be issued for the balance of a total of 5 years.

  
Manuel Perez, P.E.

Product Control Examiner  
NOA No. 12-0201.01

Expiration Date: January 25, 2013  
Approval Date: February 09, 2012



MULLION APPLICATIONS

PROCEDURE FOR MULLION SELECTION

1. DETERMINE DESIGN PRESSURE BY COMPUTING THE WIND LOAD IN PSF ON MULLION AS PER FLORIDA BUILDING CODE.
2. USE TABLES ON SHEETS No.2 AND 3 TO DETERMINE THE MULLION SIZE REQUIRED TO ACHIEVE THE DESIGN PRESSURE.
3. USE TABLES ON SHEET No. 4 TO DETERMINE THE TYPE OF CONNECTION BETWEEN MULLION AND STRUCTURE REQUIRED TO ACHIEVE THE DESIGN PRESSURE.

GENERAL NOTES:

1. MULLIONS SHALL BE USED ALONG WITH MIAMI DADE APPROVED GLAZING UNITS.
2. TUBE MATERIAL SHALL BE ALUMINUM ALLOY 6063-T5.
3. FOR DETAILS OF ATTACHMENT BETWEEN MULLION AND STRUCTURE REFER TO SHEETS No.5 AND 6 OF THIS PRODUCT APPROVAL.
4. DESIGN PRESSURES SHOWN ON GRAPHS ARE BASED ONLY ON TUBE STRENGTH. NO CONTRIBUTION OF ATTACHED GLAZING UNITS ARE CONSIDERED.

<p><b>PRODUCT RENEWED</b>          as complying with the Florida Building Code          Acceptance No. <u>12-0201-01</u>          Expiration Date <u>JAN 25, 2013</u>          By <u>Manuel Perez</u>          Miami Dade Product Control</p>	<p><b>PRODUCT REVISED</b>          as complying with the Florida Building Code          Acceptance No. <u>06-0214-02</u>          Expiration Date <u>JAN 25, 2012</u>          By <u>Manuel Perez</u>          Miami Dade Product Control</p>	<p><i>[Signature]</i>  <u>1-15-07</u>          FRANCISCO HERNANDEZ          FLORIDA PE # 51393</p>
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Sunshine Windows Manufacturing, Inc.  
 1745 W. 33rd Place  
 Hialeah, Florida 33012  
 Ph: (305)384-9952  
 Fax: (305)828-5118

FRANCISCO HERNANDEZ P. E.  
 Structural Engineering  
 15113 SW 35 Terr.  
 Miami, Florida 33185  
 Phone (305) 227-6901



ALUMINUM TUBE MULLION

Drawn By: RF  
 Date: 9-30-05  
 Scale: 1/2"=1"  
 Revision: \_\_\_\_\_  
 Revision: \_\_\_\_\_

DRAWING No:  
SW-01-07

SHEET  
 1 OF 7

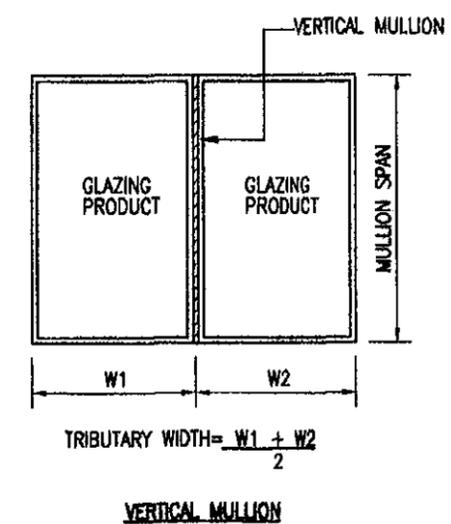
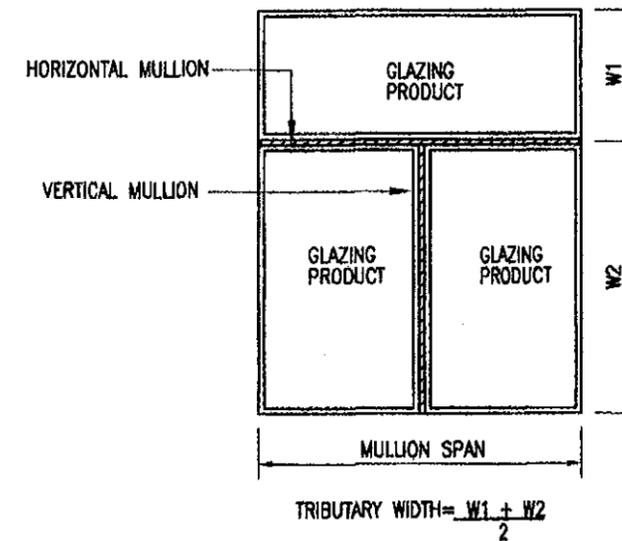
TUBE	SPAN	TRIBUTARY WIDTH (IN)	DESIGN PRESSURE (IN)
1 X 2	38.38	90	39.20
		80	44.10
		70	50.40
		60	58.80
		50	70.58
		40	88.19
		30	117.59
		20	176.39
	50.63	90	-
		80	-
		70	-
		60	25.61
		50	30.73
		40	38.42
30		51.22	
20		76.84	
56.00	90	-	
	80	-	
	70	-	
	60	-	
	50	-	
	40	28.39	
	30	37.86	
	20	56.78	
63.00	90	-	
	80	-	
	70	-	
	60	-	
	50	-	
	40	-	
	30	26.59	
	20	39.88	

TUBE	SPAN	TRIBUTARY WIDTH (IN)	DESIGN PRESSURE (IN)
1 X 3	38.38	90	79.81
		80	89.79
		70	102.61
		60	119.71
		50	143.66
		40	179.57
		30	239.43
		20	359.14
	50.63	90	45.86
		80	51.59
		70	58.96
		60	68.79
		50	82.55
		40	103.19
30		137.58	
20		208.38	
58.00	90	36.06	
	80	40.56	
	70	46.36	
	60	54.09	
	50	64.90	
	40	81.13	
	30	108.17	
	20	162.28	
63.00	90	25.32	
	80	28.49	
	70	32.56	
	60	37.99	
	50	45.58	
	40	56.98	
	30	75.97	
	20	113.96	

TUBE	SPAN	TRIBUTARY WIDTH (IN)	DESIGN PRESSURE (IN)
1 X 3	74.25	90	-
		80	-
		70	-
		60	-
		50	27.84
		40	34.81
		30	46.41
		20	69.61
	84.00	90	-
		80	-
		70	-
		60	-
		50	-
		40	-
30		32.05	
20		48.08	
96.00	90	-	
	80	-	
	70	-	
	60	-	
	50	-	
	40	-	
	30	-	
	20	32.21	

TUBE	SPAN	TRIBUTARY WIDTH (IN)	DESIGN PRESSURE (IN)
1 X 4	50.63	90	73.65
		80	82.86
		70	94.69
		60	110.47
		50	132.57
		40	165.71
		30	220.95
		20	331.42
	56.00	90	60.20
		80	67.73
		70	77.40
		60	90.30
		50	108.36
		40	135.45
30		180.61	
20		270.91	
63.00	90	47.57	
	80	53.51	
	70	61.16	
	60	71.35	
	50	85.62	
	40	107.03	
	30	142.70	
	20	214.05	
74.25	90	33.13	
	80	37.27	
	70	42.59	
	60	49.69	
	50	59.63	
	40	74.54	
	30	99.38	
	20	149.07	

TUBE	SPAN	TRIBUTARY WIDTH (IN)	DESIGN PRESSURE (IN)
1 X 4	84.00	90	-
		80	25.74
		70	29.42
		60	34.32
		50	41.18
		40	51.48
		30	68.64
		20	102.95
	96.00	90	-
		80	-
		70	-
		60	-
		50	27.59
		40	34.49
30		45.98	
20		68.97	
108.00	90	-	
	80	-	
	70	-	
	60	-	
	50	-	
	40	-	
	30	32.29	
	20	48.44	



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ALUMINUM TUBE MULLION

Drawn By: RF  
Date: 9-30-05  
Scale: NTS  
Revision: \_\_\_\_\_  
Revision: \_\_\_\_\_

DRAWING NO.  
SW-01-07  
SHEET  
2 OF 7

NOTE:  
INTERPOLATE FOR INTERMEDIATE VALUES OF SPAN AND/OR TRIBUTARY WIDTH TO DETERMINE DESIGN PRESSURES.

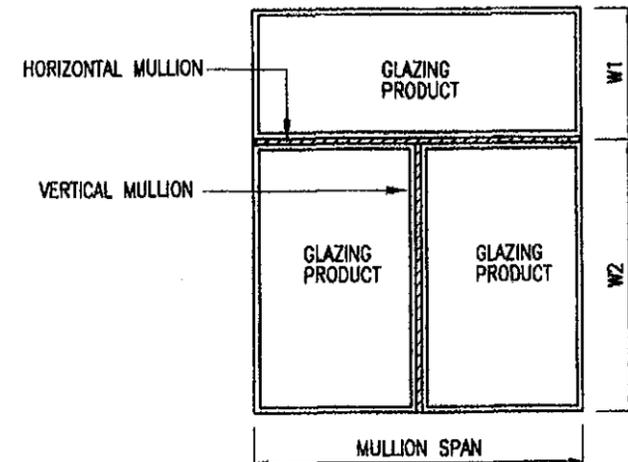
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Expiration Date, JAN. 25, 2013  
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Miami Dade Product Control

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*FH*  
1-15-07  
FRANCISCO HERNANDEZ  
FLORIDA PE # 51393

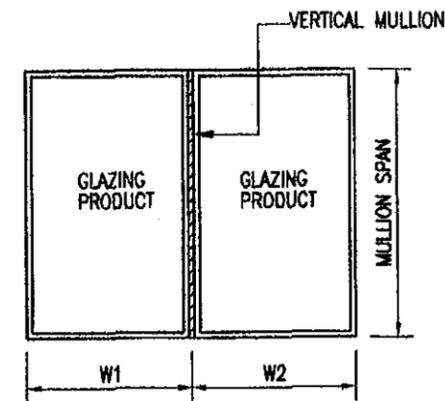
TUBE	SPAN	TRIBUTARY WIDTH (IN)	DESIGN PRESSURE (IN)	TUBE	SPAN	TRIBUTARY WIDTH (IN)	DESIGN PRESSURE (IN)
2 X 4	50.83	90	107.49	2 X 4	84.00	90	33.39
		80	120.93			80	37.56
		70	138.20			70	42.93
		60	161.23			60	50.09
		50	198.48			50	60.10
		40	241.85			40	75.13
		30	322.47			30	100.17
		20	483.70			20	150.26
	56.00	90	87.86	2 X 4	96.00	90	-
		80	98.85			80	25.16
		70	112.97			70	28.78
		60	131.79			60	33.55
		50	158.15			50	40.28
		40	197.69			40	50.33
		30	263.59			30	67.11
		20	395.38			20	100.66
	63.00	90	69.42	2 X 4	108.00	90	-
		80	78.10			80	-
		70	89.26			70	-
		60	104.13			60	-
		50	124.96			50	28.28
		40	156.20			40	35.35
		30	208.27			30	47.13
		20	312.40			20	70.70
	74.25	90	48.35	2 X 4	120.00	90	-
		80	54.39			80	-
		70	62.16			70	-
		60	72.52			60	-
50		87.02	50			-	
40		108.78	40			25.77	
30		145.04	30			34.36	
20		217.56	20			51.54	

TUBE	SPAN	TRIBUTARY WIDTH (IN)	DESIGN PRESSURE (IN)	TUBE	SPAN	TRIBUTARY WIDTH (IN)	DESIGN PRESSURE (IN)
2 X 6	63.00	90	95.30	2 X 6	108.00	90	32.43
		80	107.22			80	36.48
		70	122.53			70	41.70
		60	142.96			60	48.64
		50	171.55			50	58.37
		40	214.43			40	72.97
		30	285.91			30	97.29
		20	428.87			20	145.93
	74.25	90	68.61	2 X 6	120.00	90	26.27
		80	77.19			80	29.55
		70	88.21			70	33.77
		60	102.92			60	39.40
		50	123.50			50	47.28
		40	154.38			40	59.10
		30	205.83			30	78.80
		20	308.75			20	118.21
	84.00	90	53.61	2 X 6	132.00	90	-
		80	60.31			80	-
		70	68.92			70	-
		60	80.41			60	32.56
		50	96.49			50	39.08
		40	120.62			40	48.85
		30	160.82			30	65.13
		20	241.24			20	97.89
	96.00	90	41.04	2 X 6	144.00	90	-
		80	46.17			80	-
		70	52.77			70	-
		60	61.57			60	27.36
50		73.88	50			32.84	
40		92.35	40			41.04	
30		123.13	30			54.73	
20		184.70	20			82.09	



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

HORIZONTAL MULLION



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

VERTICAL MULLION

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ALUMINUM TUBE MULLION

Drawn By: RF  
Date: 9-30-05  
Scale: NTS  
Revision: \_\_\_\_\_  
Revision: \_\_\_\_\_

DRAWING NO.  
SW-01-07  
SHEET  
3 OF 7

**NOTE:**

INTERPOLATE FOR INTERMEDIATE VALUES OF SPAN AND/OR TRIBUTARY WIDTH TO DETERMINE DESIGN PRESSURES.

PRODUCT RENEWED  
as complying with the Florida  
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Acceptance No. 12-0201-01  
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Miami Dade Product Control

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*Francisco Hernandez*  
1-15-07  
FRANCISCO HERNANDEZ  
FLORIDA PE # 51393

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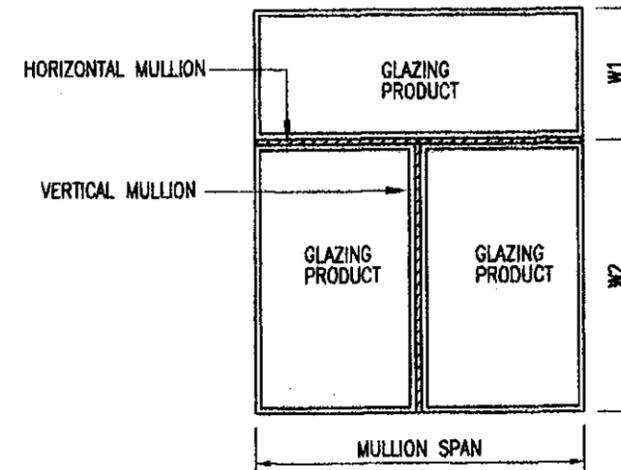
DRAWING NO.  
SW-01-07  
SHEET  
4 OF 7

ANCHOR TYPE	SPAN	TRIBUTARY WIDTH (IN)	DESIGN PRESSURE (IN)	ANCHOR TYPE	SPAN	TRIBUTARY WIDTH (IN)	DESIGN PRESSURE (IN)
A & D	38.38	85	64.98	A & D	74.00	43	66.61
		60	92.05			40	71.61
		40	138.07			30	95.48
		20	276.14			20	143.22
	50.63	65	64.42		84.00	39	64.70
		50	83.74			30	84.11
		30	139.57			20	126.17
		20	209.35			34	64.94
	57.00	57	85.24		96.00	30	73.80
		50	74.37			20	110.40
		30	123.96			30	65.42
		20	185.94			25	78.51
	63.00	52	64.70		108.00	20	98.13
		40	84.11				
		30	112.15				
		20	168.23				

**NOTE:**

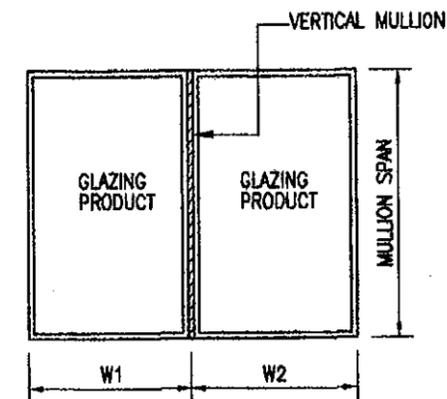
INTERPOLATE FOR INTERMEDIATE VALUES OF SPAN AND/OR TRIBUTARY WIDTH TO DETERMINE DESIGN PRESSURES.

ANCHOR TYPE	SPAN	TRIBUTARY WIDTH (IN)	DESIGN PRESSURE (IN)	ANCHOR TYPE	SPAN	TRIBUTARY WIDTH (IN)	DESIGN PRESSURE (IN)		
B,C & E	50.63	85	98.52	B,C & E	108.00	85	46.18		
		70	119.63			70	56.08		
		60	139.57			50	78.51		
		48	174.46			40	98.13		
		57.00	85			87.50	120.00	22	178.42
			70			106.25		85	41.56
	60		123.96		70	50.47			
	50		148.75		50	70.86			
	42		177.08		40	88.32			
	63.00		85		79.17	132.00		30	117.76
		65	103.53		20		176.64		
		50	134.58		78		41.17		
		38	177.08		70		45.88		
		72.00	85		69.27		144.00	50	64.23
			70		84.11			40	80.29
	50		117.76		30	107.05			
	33		178.42		20	160.58			
	84.00		85		59.37	144.00		73	40.33
			70		72.10			60	49.07
		50	100.94		50		58.88		
		29	174.03		40		73.60		
		96.00	85		51.95		144.00	30	98.13
			70		63.09			20	147.20
	50		88.32						
40	110.40								
25	176.64								



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

HORIZONTAL MULLION



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

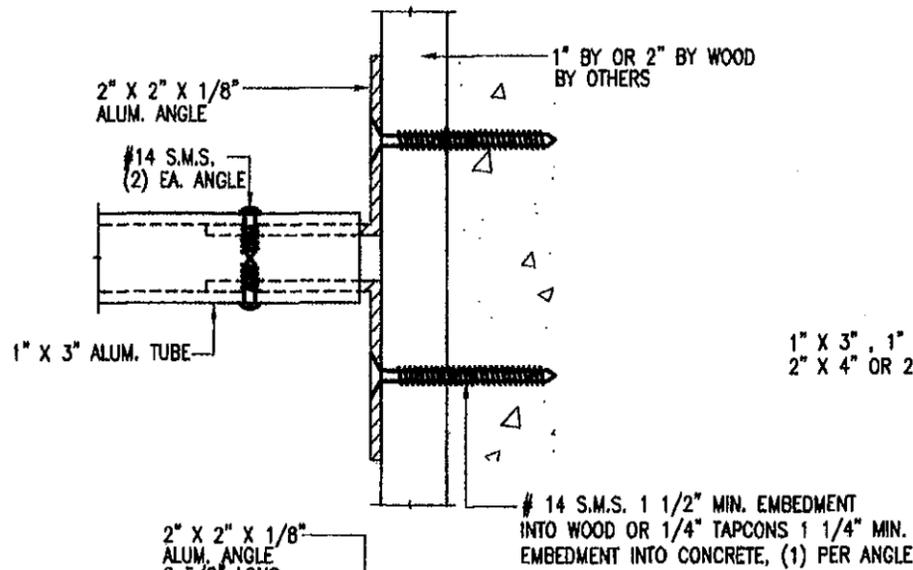
VERTICAL MULLION

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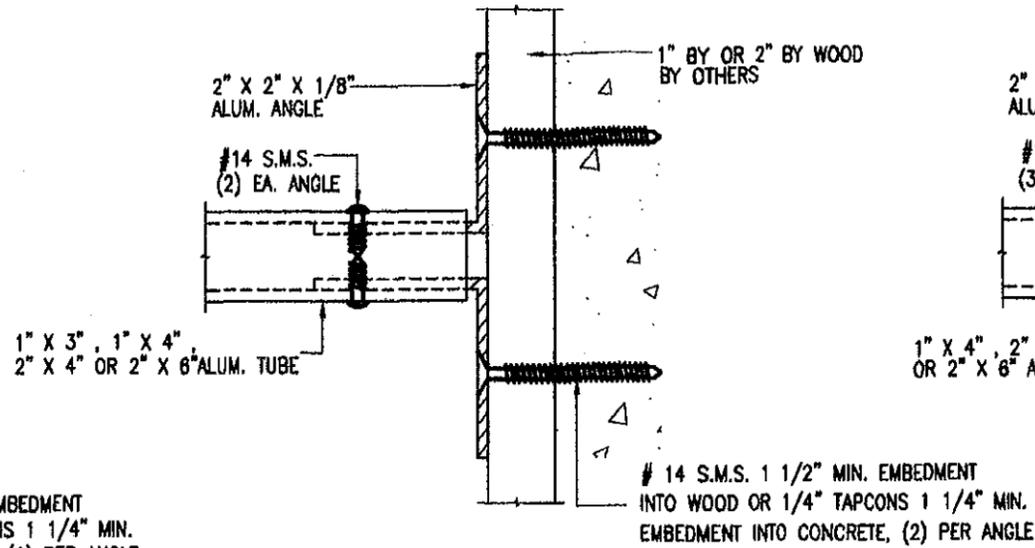
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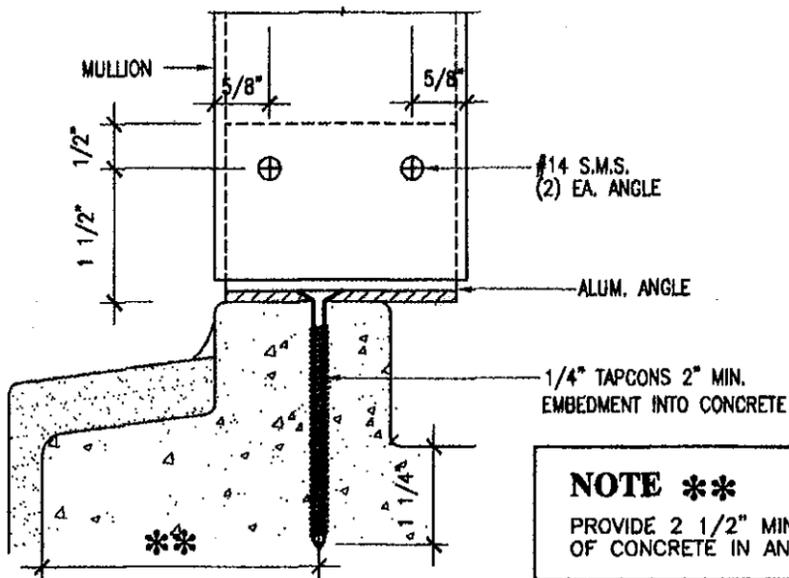
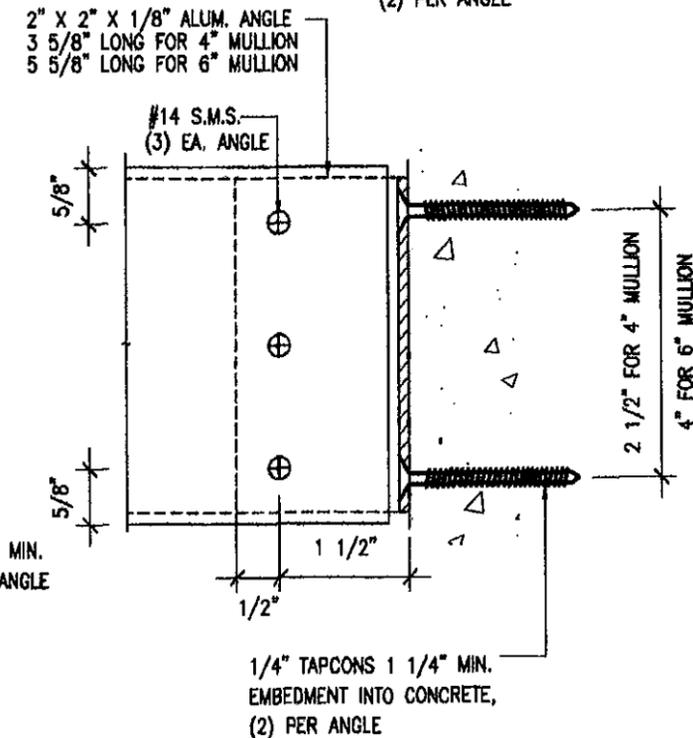
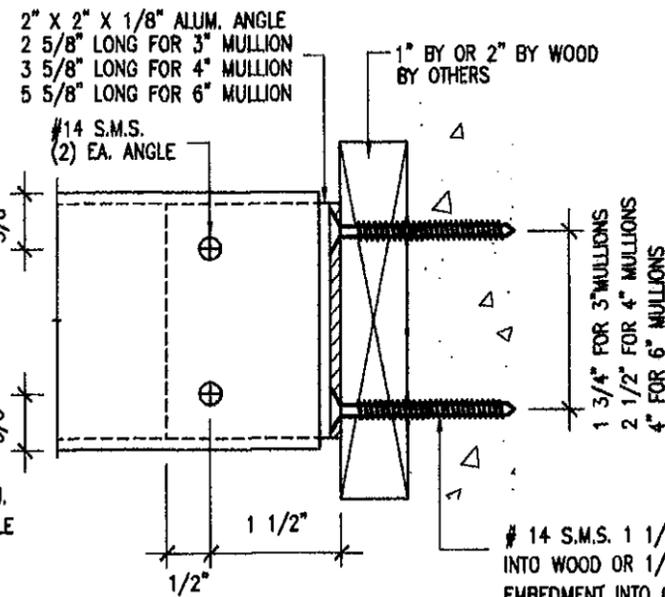
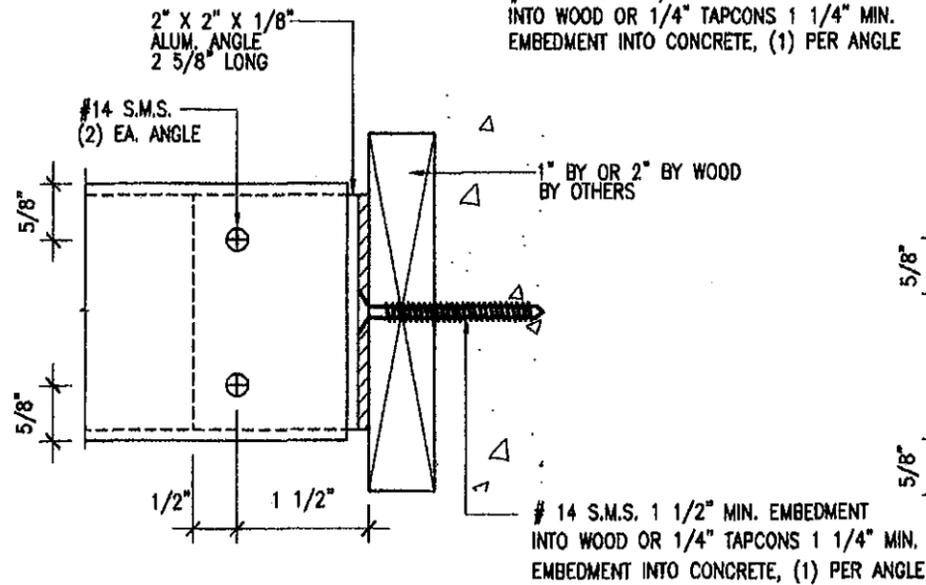
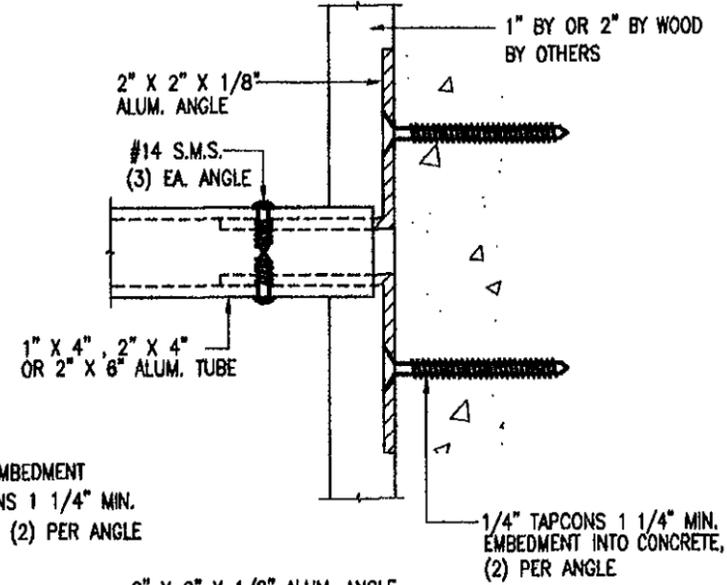
### ANCHOR TYPE "A"



### ANCHOR TYPE "B"



### ANCHOR TYPE "C"



**NOTE:**

- MULLION CONNECTIONS SHOWN ON THIS SHEET ARE APPLICABLE TO VERTICAL OR HORIZONTAL MULLIONS.
- WOOD BUCK BY OTHERS MUST BE PROPERLY ANCHORED TO TRANSFER LOAD TO THE STRUCTURE AND TO BE REVIEWED BY BUILDING OFFICIAL.

<p><b>PRODUCT RENEWED</b> as complying with the Florida Building Code Acceptance No. 12-0201-01 Expiration Date JAN. 25, 2013 By <i>Manuel Perez</i> Miami Dade Product Control</p>	<p><b>PRODUCT REVISED</b> as complying with the Florida Building Code Acceptance No. 06-0214-02 Expiration Date JAN. 25, 2012 By <i>Manuel Perez</i> Miami Dade Product Control</p>	<p><i>[Signature]</i> 1-15-07 FRANCISCO HERNANDEZ FLORIDA PE # 51393</p>
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Structural Engineering  
15113 SW 35 Terr.  
Miami, Florida 33185  
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**ALUMINUM TUBE MULLION**

Drawn By: RF  
Date: 9-30-05  
Scale: 1/2" = 1"  
Revision: \_\_\_\_\_  
Revision: \_\_\_\_\_

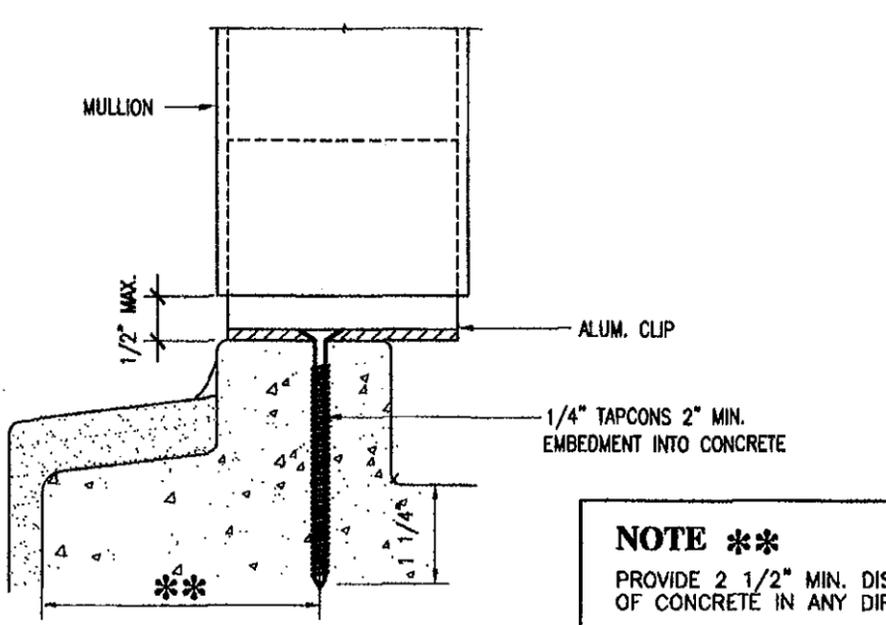
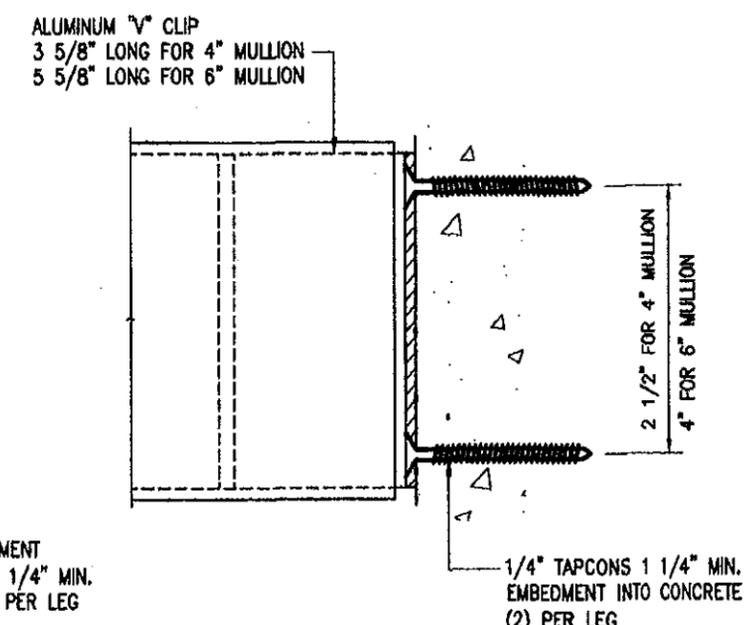
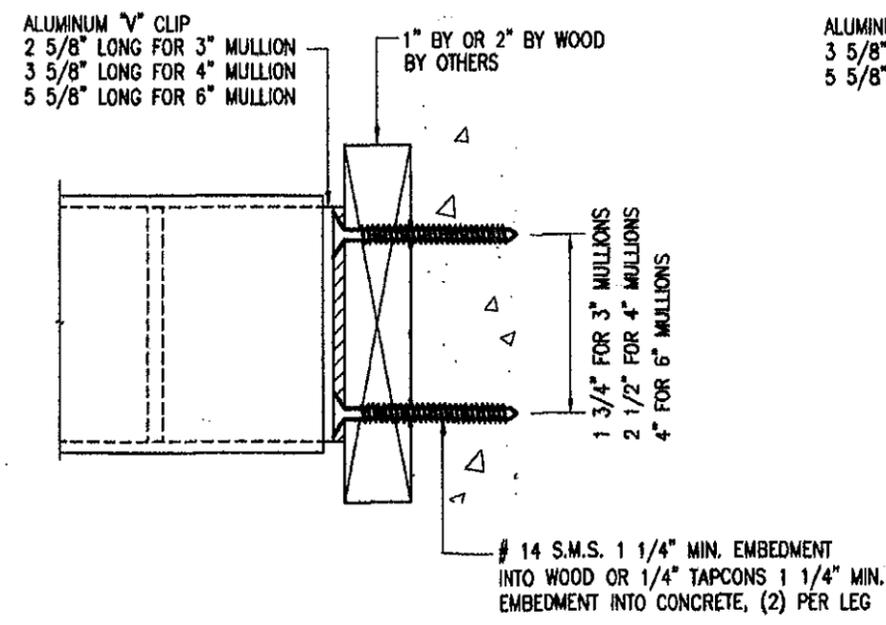
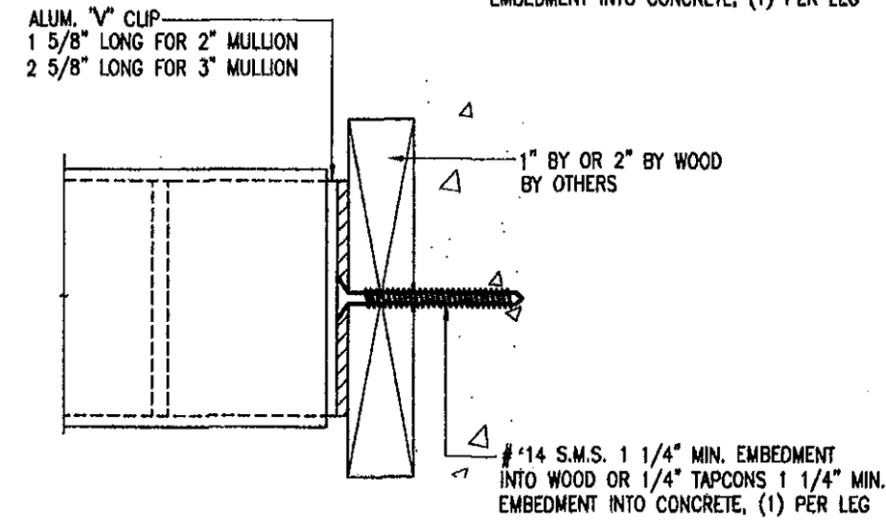
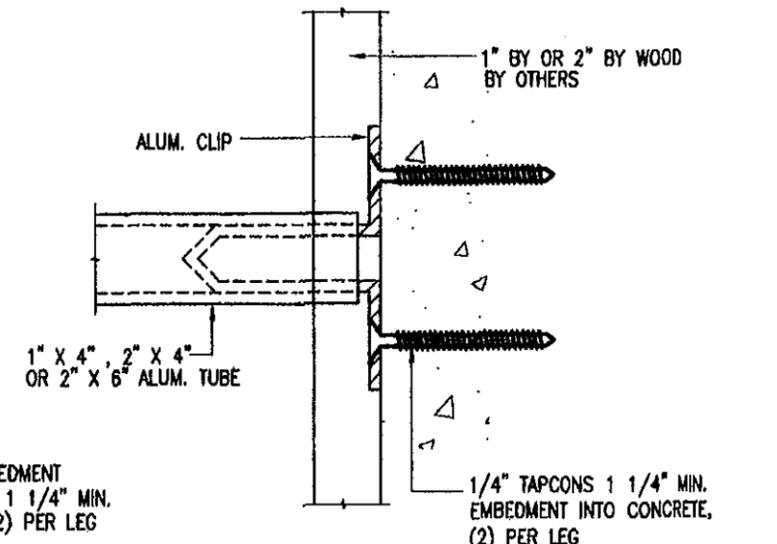
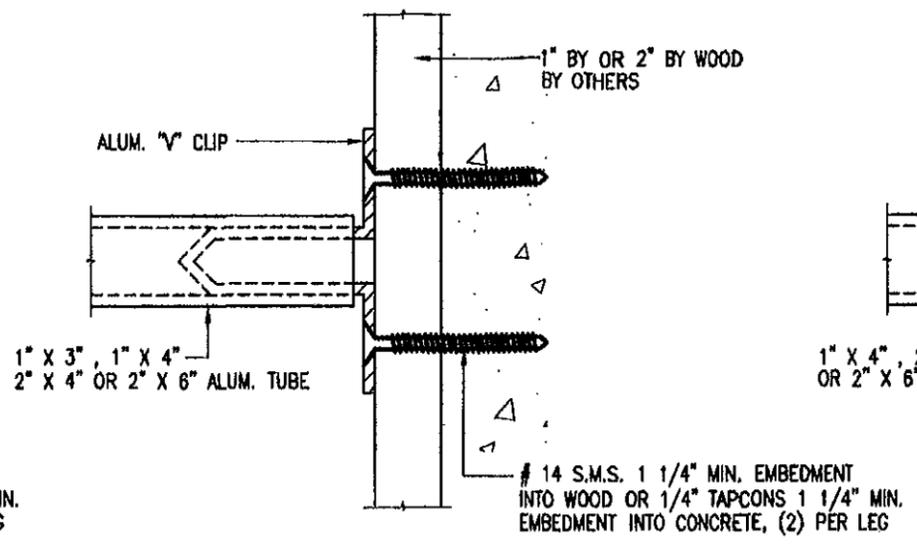
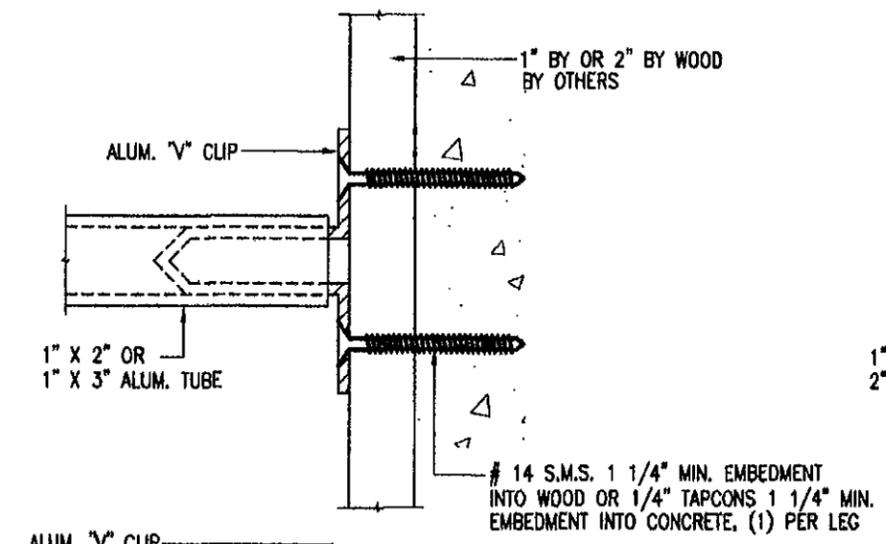
DRAWING No:  
SW-01-07  
SHEET  
5 OF 7

DETAIL OF ATTACHMENT TO PRECAST SILL

**ANCHOR TYPE "A"**

**ANCHOR TYPE "B"**

**ANCHOR TYPE "C"**



**NOTE \*\***  
 PROVIDE 2 1/2" MIN. DISTANCE TO EDGE OF CONCRETE IN ANY DIRECTION

**NOTE:**  
 1- MULLION CONNECTIONS SHOWN ON THIS SHEET ARE APPLICABLE TO VERTICAL OR HORIZONTAL MULLIONS.  
 2- WOOD BUCK BY OTHERS MUST BE PROPERLY ANCHORED TO TRANSFER LOAD TO THE STRUCTURE AND TO BE REVIEWED BY BUILDING OFFICIAL

<p><b>PRODUCT RENEWED</b>                  as complying with the Florida Building Code                  Acceptance No. 12-0201-01                  Expiration Date, 12/25/2013</p> <p>By <i>Manuel Perez</i>                  Miami Dade Product Control</p>	<p><b>PRODUCT REVISED</b>                  as complying with the Florida Building Code                  Acceptance No. 06-0214-02                  Expiration Date, 1/25/2012</p> <p>By <i>Manuel Perez</i>                  Miami Dade Product Control                  Division</p>	<p><i>[Signature]</i>                  1-17-07                  FRANCISCO HERNANDEZ                  FLORIDA PE # 51393</p>
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**ALUMINUM TUBE MULLION**

Drawn By: RF  
 Date: 9-30-05  
 Scale: 1/2"=1"  
 Revision: \_\_\_\_\_  
 Revision: \_\_\_\_\_

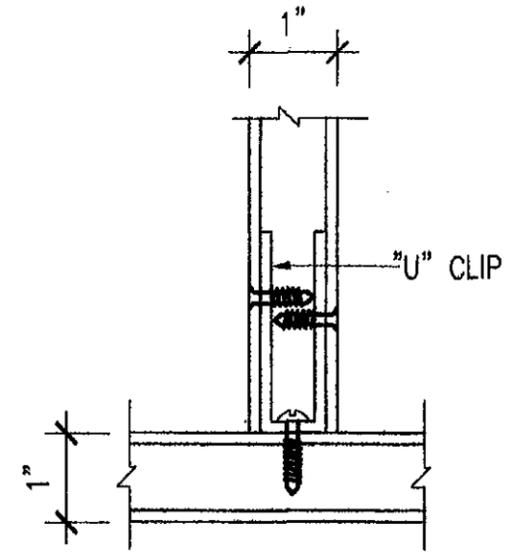
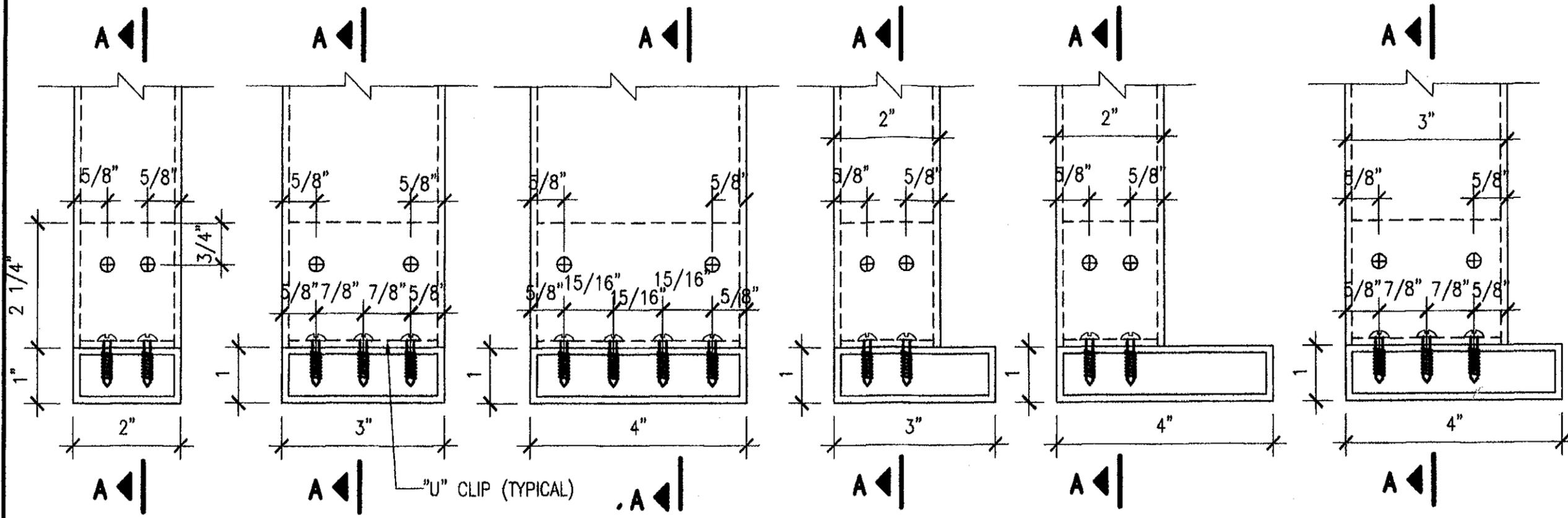
DRAWING No:  
 SW-01-07  
 SHEET  
 6 OF 7

**DETAIL OF ATTACHMENT TO PRECAST SILL**

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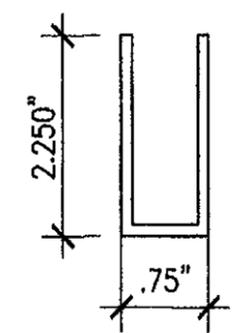
FRANCISCO HERNANDEZ P. E.  
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 Miami, Florida 33185  
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ALUMINUM TUBE MULLION

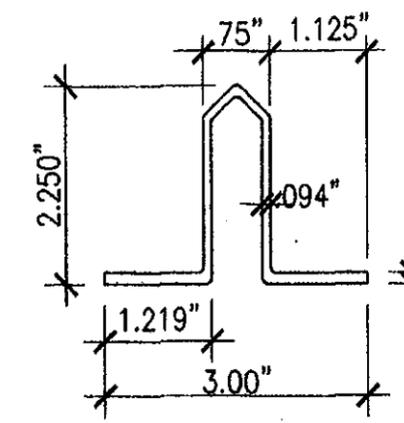


SECTION A-A

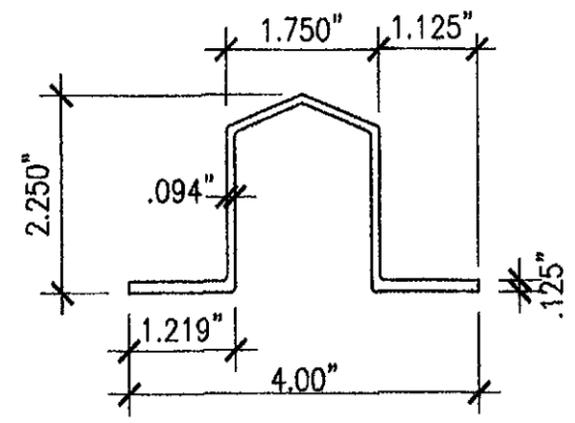
"U" CLIP (TYPICAL)



ALUMINUM "U" CLIP FOR 1" WIDE TUBES



"V" CLIP FOR 1" WIDE TUBES



"V" CLIP FOR 2" WIDE TUBES

DETAILS OF MULLION TO MULLION CONNECTIONS FOR 1" WIDE TUBES

<p>PRODUCT RENEWED          as complying with the Florida          Building Code          Acceptance No. 12-0201-01          Expiration Date JAN. 25, 2013          By <i>Manuel Perez</i>          Miami Dade Product Control</p>	<p>PRODUCT REVISED          as complying with the Florida          Building Code          Acceptance No. 06-0214-02          Expiration Date JAN. 25, 2012          By <i>Manuel Perez</i>          Miami Dade Product Control          Division</p>	<p><i>[Signature]</i>          1-15-07          FRANCISCO HERNANDEZ          FLORIDA PE # 51393</p>
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Drawn By: RF  
 Date: 9-30-05  
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 Revision: \_\_\_\_\_  
 Revision: \_\_\_\_\_

DRAWING No:  
 SW-01-07  
 SHEET  
 7 OF 7