



BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Robinson & Sons Shutter Company
8400 N.W. 96 Street
Miami ,FL 33166

Your application for Notice of Acceptance (NOA) of:

"Mega Folding" Aluminum Accordion Type Shutter

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

Raul Rodriguez
Chief Product Control Division

ACCEPTANCE NO.: 00-0524.09
EXPIRES: 07/31/2003

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 08/17/2000

Robinson & Sons Shutter Company

ACCEPTANCE No. : 00-0524.09

APPROVED : AUG 17 2000

EXPIRES : July 31, 2003

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

This renews the Notice of Acceptance No. 97-0612.03, which was issued on July 31, 1997. It approves an aluminum accordion type shutter, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

This aluminum accordion type shutter and its components shall be constructed in strict compliance with the following documents: Drawing No. 97-164 titled "Mega Folding Storm Shutter", prepared by Tilteco Inc., dated June 5, 1997, sheets 1 through 5 of 5, bearing the Miami-Dade County Product Control Approval and Renewal stamps with the Notice of Acceptance numbers and approval dates by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

All permanent set components, included but not limited to embedded anchor bolts, threaded cones, metal shields, headers and sills, must be protected against corrosion, contamination and damage at all times.

4. INSTALLATION

This aluminum accordion type shutter and its components shall be installed in strict compliance with the approved drawings.

5. LABELING

Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved".

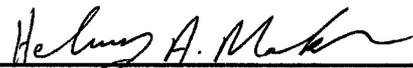
6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance.

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.



Helmy A. Makar, P.E.- Product Control Examiner
Product Control Division

Robinson & Sons Shutter Company

ACCEPTANCE No. : 00-0524.09

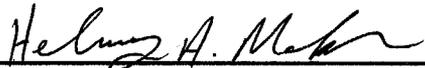
APPROVED : AUG 17 2000

EXPIRES : July 31, 2003

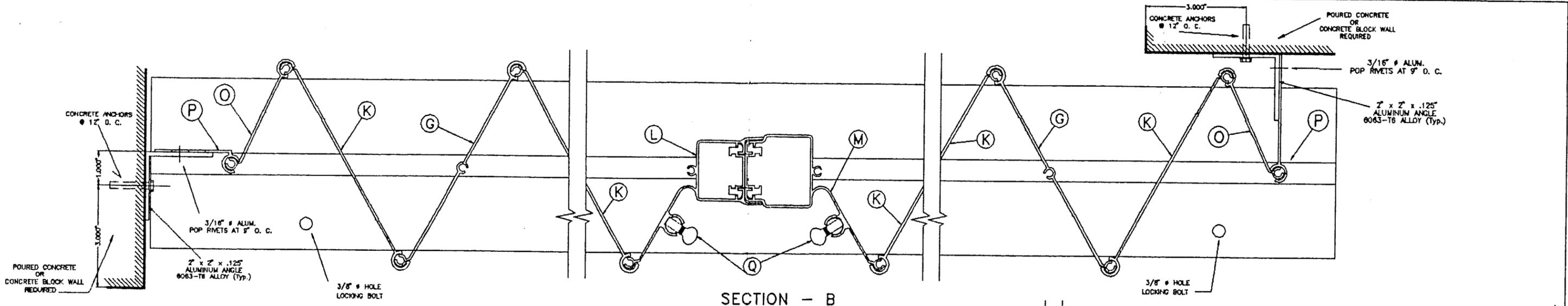
NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
 - b. The product is no longer the same product (identical) as the one originally approved.
 - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
 - d. The engineer, who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a. Unsatisfactory performance of this product or process.
 - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

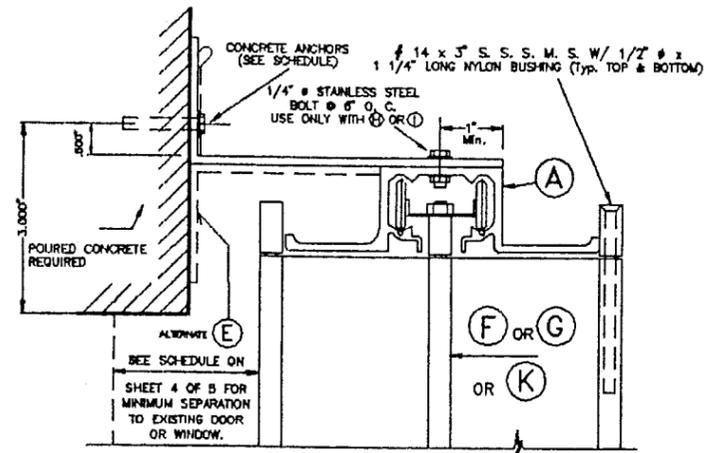
END OF THIS ACCEPTANCE



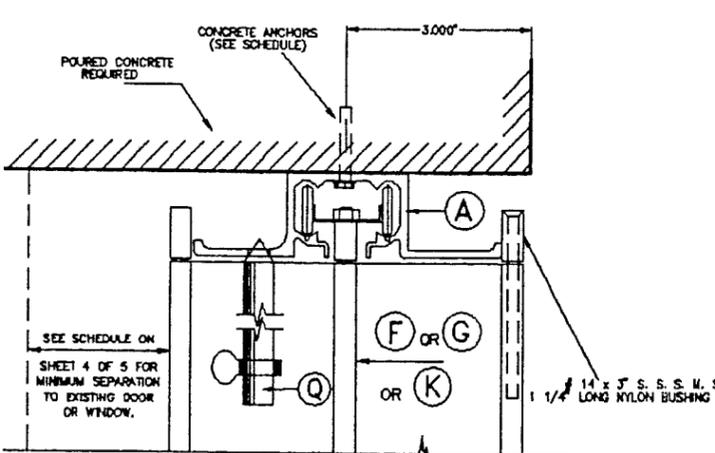
Helmy A. Makar, P.E.- Product Control Examiner
Product Control Division



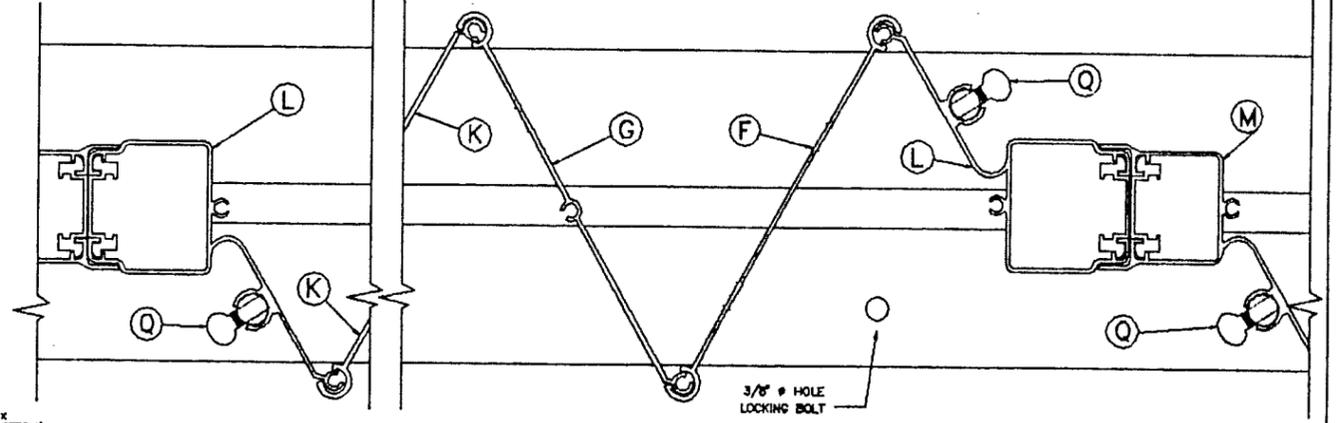
SECTION - B



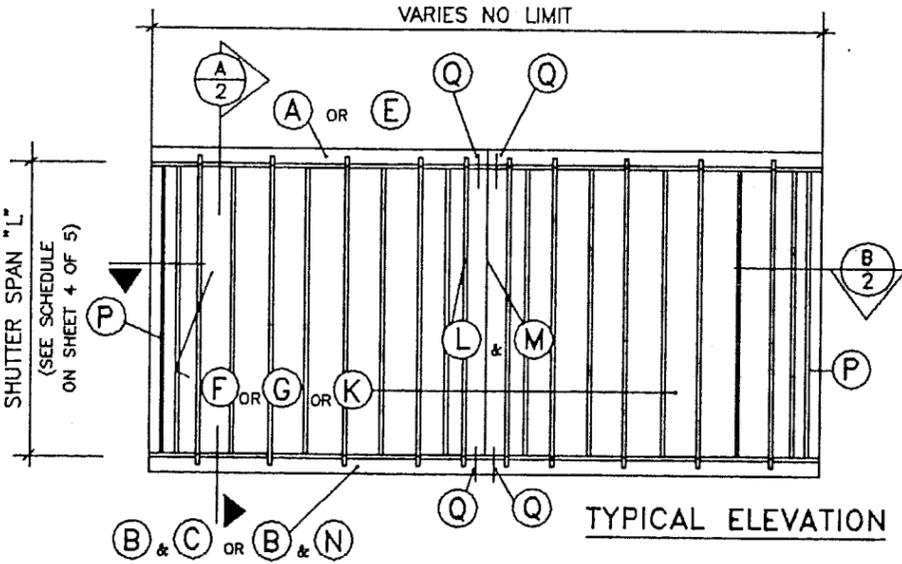
WALL MOUNTING INSTALLATION - SECTION A



CEILING & FLOOR MOUNTING INSTALLATION - SECTION A



SECTION - B (MULTIPLE SHUTTERS)



TYPICAL ELEVATION

PRODUCT RENEWED
 ACCEPTANCE No. 00-0524.09
 EXPIRATION DATE July 31, 2003
 By Heung A. Makin
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

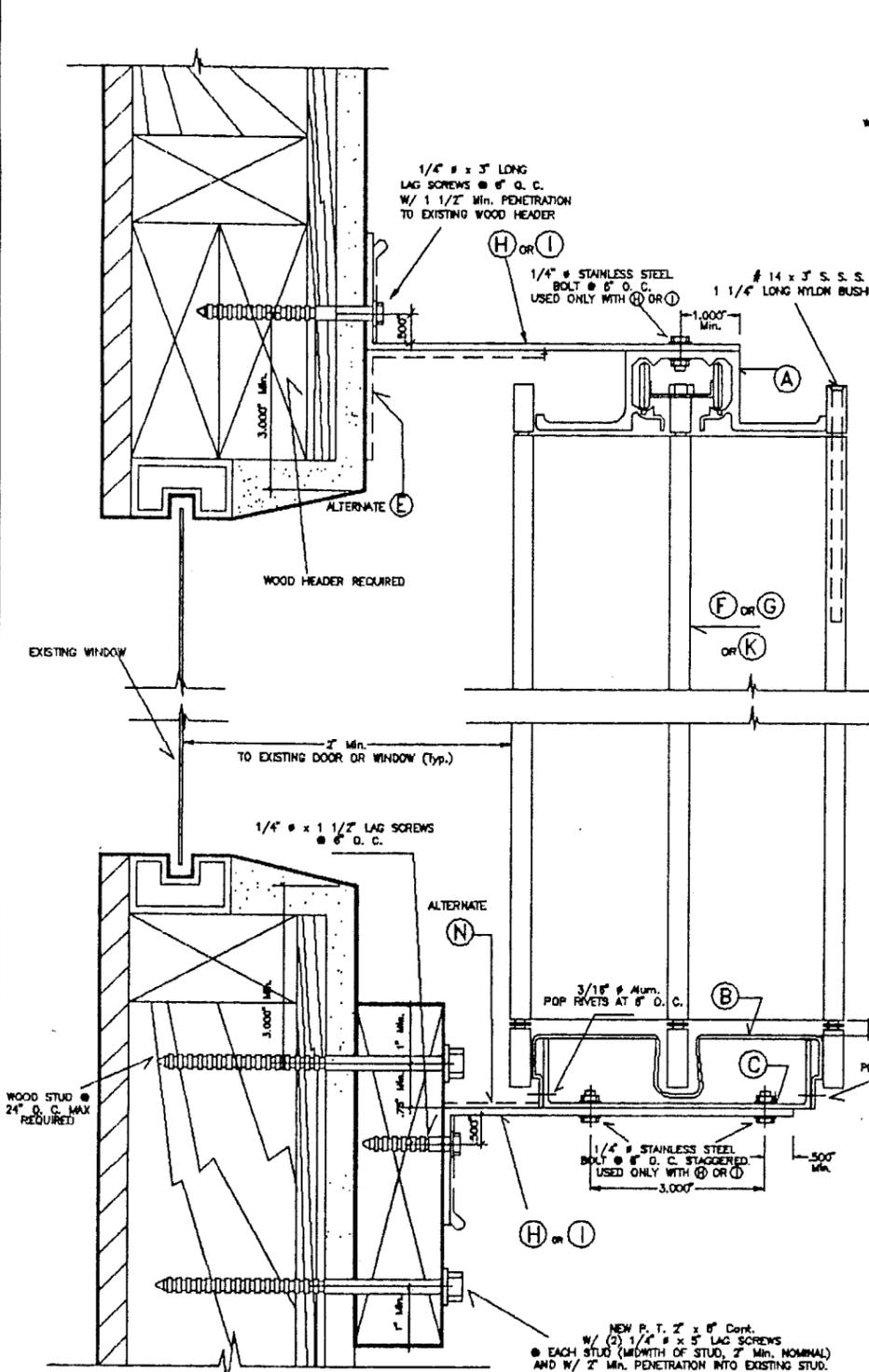
APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE JULY 31, 1997
 BY Manuel Diaz
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE No. 97-0612.03

DADE COUNTY

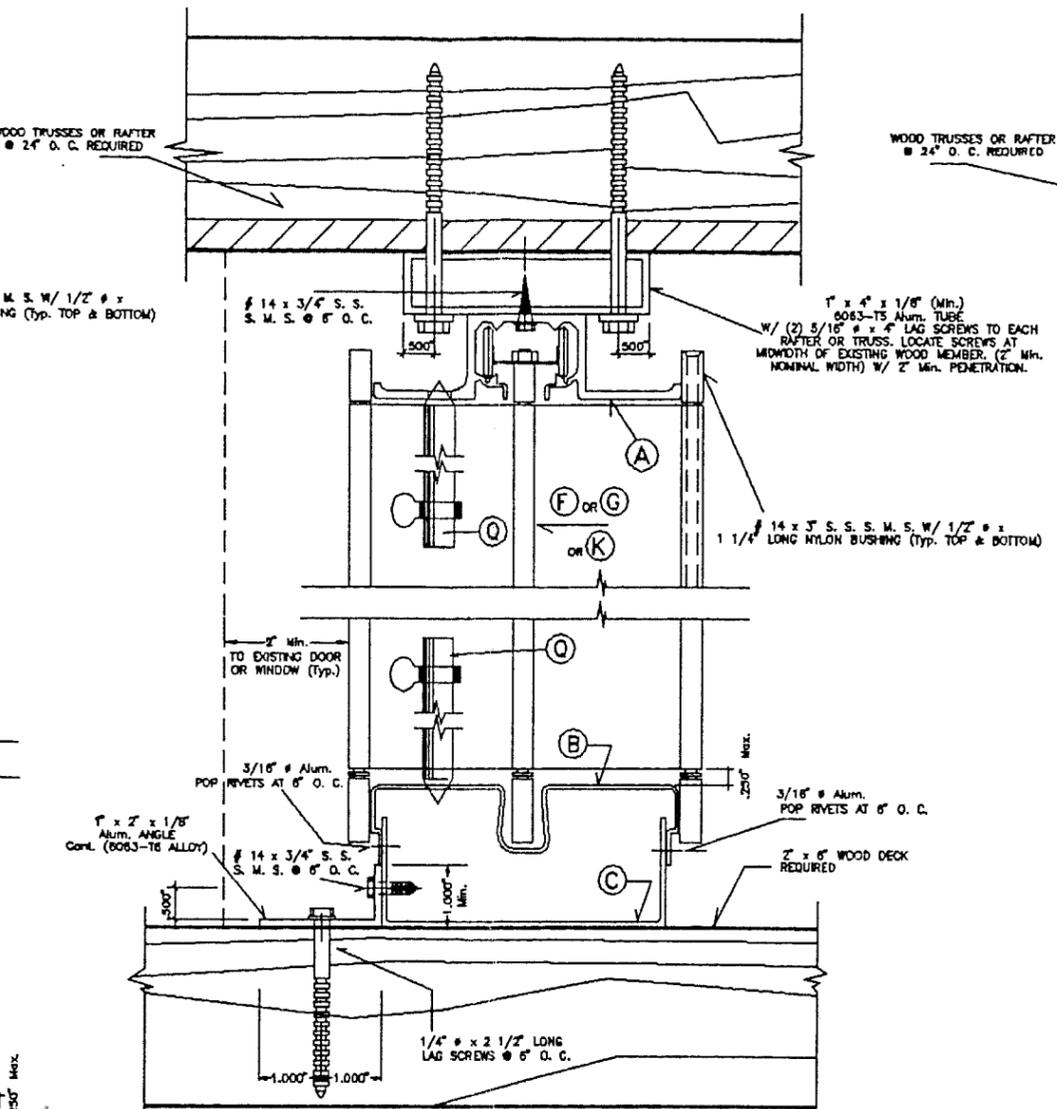
TILTECO INC.
 TILLIT TESTING & ENGINEERING COMPANY
 6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33166
 Phone: (305)871-1530 Fax: (305)871-1631
 WALTER A. TILLIT Jr., P. E.
 FLORIDA Lic. # 44187

MEGA FOLDING STORM SHUTTER		SCALE	
ROBINSON & SONS SHUTTER CO.		8/5/97 DATE	
8400 N.W. 96th St. MIAMI, FL. 33166		97 - 164 DRAWING No	
REV. NO	DESCRIPTION	DATE	REV. No
1			3
2			4
		SHEET 2 OF 5	

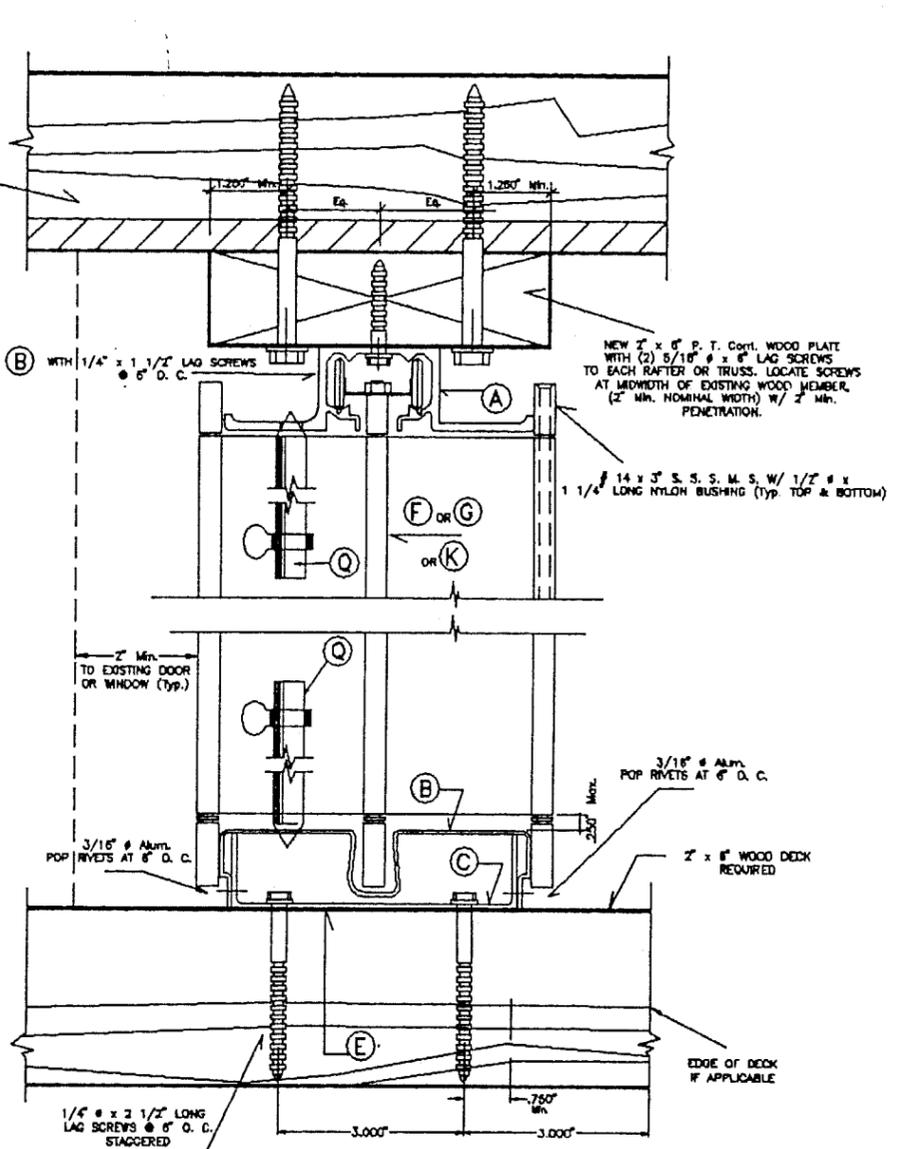
Walter A. Tillit
 6/5/97



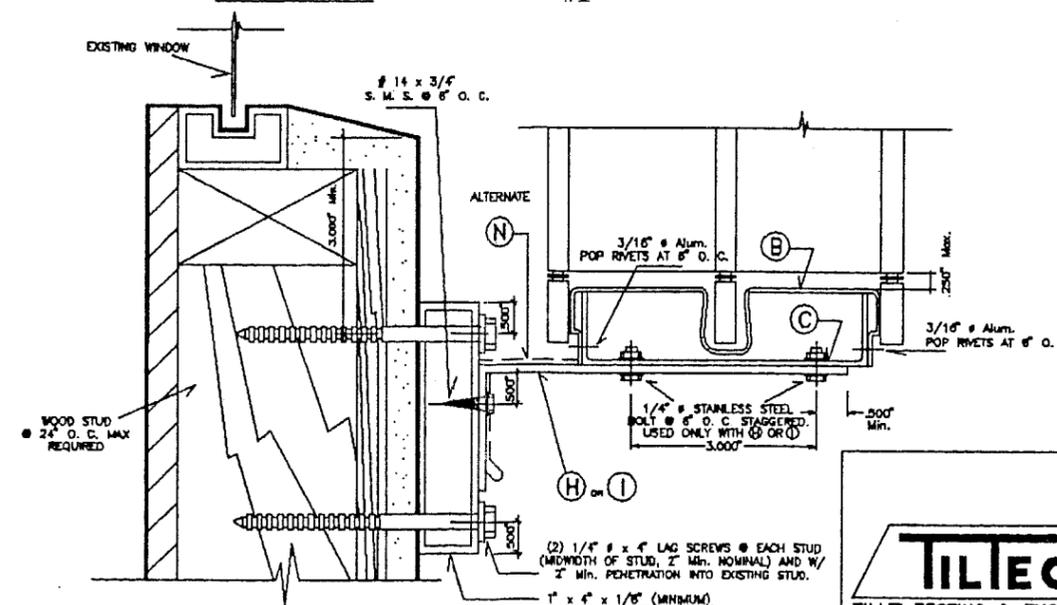
WALL MOUNTING INSTALLATION - SECTION A



CEILING & FLOOR MOUNTING INSTALLATION - SECTION A



CEILING & FLOOR MOUNTING INSTALLATION - SECTION A



ALTERNATIVE WALL MOUNTING INSTALLATION - SECTION A

- NOTES:
1. INSTALLATIONS ARE ONLY VALID FOR BUILDINGS WITH MEAN ROOF HEIGHT LESS OR EQUAL THAN 30 FEET AND Max. SHUTTER SPAN OF 8'-0".
 2. NEW 2" x 6" P. T. TO BE SOUTHERN PINE No. 2, SURFACED DRY WITH 19% M. M. C. W/ SPECIFIC DENSITY OF 0.55.
 3. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

PRODUCT RENEWED
 ACCEPTANCE No. 00-0524.09
 EXPIRATION DATE July 31, 2003
 By Helmut A. Mader
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE JULY 31 1997
 BY Maurice King
 PRODUCT-CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE No. 97-0612.03

DADE COUNTY

TILECO INC.
 TILLIT TESTING & ENGINEERING COMPANY
 6666 N.W. 34th St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33166
 Phone: (305)871-1530 Fax: (305)871-1531
 WALTER A. TILLIT Jr., P. E.
 FLORIDA Lic. # 44167

MEGA FOLDING STORM SHUTTER		SCALE	
ROBINSON & SONS SHUTTER CO.		6/5/97 DATE	
8400 N.W. 96th St. MIAMI, FL. 33166		97 - 164 DRAWING No	
REV. NO	DESCRIPTION	DATE	REV. No
1			3
2			4
		SHEET 3 OF 5	

MAXIMUM DESIGN LOAD "W" (p.s.f.) AND CORRESPONDING MAXIMUM SPAN "L" SCHEDULE.

MAXIMUM DESIGN LOAD W (p.s.f.)	MAXIMUM PANEL SPAN L (ft.)		MINIMUM SEPARATION TO GLASS (in.)	
	*	**	*	**
45.1	18'-1"	18'-1"	5 7/8"	3"
47.8	17'-10"	17'-10"	5 7/8"	3"
49.0	17'-9"	17'-9"	5 7/8"	3"
50.5	17'-7"	17'-7"	5 7/8"	3"
52.0	17'-6"	17'-6"	5 7/8"	3"
52.4	17'-5"	17'-5"	5 7/8"	3"
55.0	17'-3"	17'-3"	5 7/8"	3"
55.2	17'-3"	17'-3"	5 7/8"	3"
55.6	17'-2"	17'-2"	5 7/8"	3"
57.2	15'-8"	15'-8"	4 7/8"	2"
58.6	17'-0"	17'-0"	5 7/8"	3"
58.8	16'-11"	16'-11"	5 3/8"	3"
59.5	15'-6"	15'-6"	4 7/8"	2"
59.7	16'-10"	16'-10"	5 3/8"	3"
61.5	16'-9"	16'-9"	5 3/8"	3"
61.8	15'-4"	15'-4"	4 7/8"	2"
61.9	16'-9"	16'-9"	5 3/8"	3"
63.4	16'-8"	16'-8"	5 3/8"	3"
63.6	15'-3"	15'-3"	4 7/8"	2"
63.7	16'-7"	16'-7"	5 3/8"	3"
66.9	16'-5"	16'-5"	5 3/8"	3"
	15'-0"	15'-0"	4 7/16"	2"
67.0	16'-5"	16'-5"	5 3/8"	3"
67.5	16'-4"	16'-4"	5 3/8"	3"
70.1	14'-10"	14'-10"	4 7/16"	2"
71.1	16'-2"	16'-2"	5 3/8"	3"
71.4	16'-1"	16'-1"	5 3/8"	3"
71.5	16'-2"	16'-2"	5 3/8"	3"
72.9	14'-9"	14'-9"	4 7/16"	2"
75.1	14'-7"	14'-7"	4 7/16"	2"
75.2	15'-11"	15'-11"	4 7/8"	3"
75.3	15' 11"	15' 11"	4 7/8"	3"
77.0	14'-6"	14'-6"	4 7/16"	2"
77.5	14'-6"	14'-6"	4 7/16"	2"
78.8	14'-5"	14'-5"	4 7/16"	2"
80.7	14'-4"	14'-4"	4 7/16"	2"
81.5	15'-7"	15'-7"	4 7/8"	3"
82.5	14'-3"	14'-3"	4 7/16"	2"
83.4	14'-3"	14'-3"	4 7/16"	2"
86.2	14'-1"	14'-1"	4 7/16"	2"
86.7	14'-1"	14'-1"	4 7/16"	2"

MAXIMUM DESIGN LOAD W (p.s.f.)	MAXIMUM PANEL SPAN L (ft.)		MINIMUM SEPARATION TO GLASS (in.)	
	*	**	*	**
86.8	15'-4"	15'-4"	4 7/8"	2"
	14'-1"	14'-1"	4 7/16"	3"
88.5	14'-1"	14'-1"	4 7/16"	2"
90.3	13'-11"	13'-11"	4"	2"
90.8	13'-11"	13'-11"	4"	2"
91.4	15'-2"	15'-2"	4 7/8"	3"
92.7	13'-10"	13'-10"	4"	2"
93.8	13'-10"	13'-10"	4"	2"
94.5	13'-10"	13'-10"	4"	2"
96.6	13'-9"	13'-9"	4"	2"
96.8	13'-9"	13'-9"	4"	2"
97.7	13'-8"	13'-8"	4"	2"
100.5	13'-7"	13'-7"	4"	2"
101.5	13'-6"	13'-6"	4"	2"
103.7	13'-6"	13'-6"	4"	2"
106.5	13'-4"	13'-4"	4"	2"
108.8	13'-4"	13'-4"	4"	2"
110.6	13'-3"	13'-3"	4"	2"
111.0	13'-3"	13'-3"	4"	2"
114.1	13'-2"	13'-2"	4"	2"
116.5	13'-1"	13'-1"	4"	2"
116.9	13'-1"	13'-1"	4"	2"
117.6	13'-1"	13'-1"	4"	2"
119.7	13'-0"	13'-0"	3 9/16"	2"
121.2	12'-11"	12'-11"	3 9/16"	2"
122.5	12'-11"	12'-11"	3 9/16"	2"
125.3	12'-10"	12'-10"	3 9/16"	2"
125.8	12'-10"	12'-10"	3 9/16"	2"
126.7	12'-10"	12'-10"	3 9/16"	2"
129.6	12'-9"	12'-9"	3 9/16"	2"
130.9	12'-9"	12'-9"	3 9/16"	2"
131.6	12'-8"	12'-8"	3 9/16"	2"
134.3	12'-8"	12'-8"	3 9/16"	2"
136.2	12'-7"	12'-7"	3 9/16"	2"
137.9	12'-6"	12'-6"	3 9/16"	2"
140.7	12'-6"	12'-6"	3 9/16"	2"
142.8	12'-5"	12'-5"	3 9/16"	2"
143.5	12'-5"	12'-5"	3 9/16"	2"
147.0	12'-4"	12'-4"	3 9/16"	2"
148.4	12'-4"	12'-4"	3 9/16"	2"
152.6	12'-3"	12'-3"	3 9/16"	2"

MAXIMUM DESIGN LOAD W (p.s.f.)	MAXIMUM PANEL SPAN L (ft.)		MINIMUM SEPARATION TO GLASS (in.)	
	*	**	*	**
153.1	12'-3"	12'-3"	3 9/16"	2"
156.8	12'-2"	12'-2"	3 9/16"	2"
157.5	12'-2"	12'-2"	3 9/16"	2"
157.8	12'-1"	12'-1"	3 9/16"	2"
160.6	12'-0"	12'-0"	3 3/16"	2"
161.7	11'-11"	11'-11"	3 3/16"	2"
164.4	11'-9"	11'-9"	3 3/16"	2"
165.2	11'-8"	11'-8"	3 3/16"	2"
168.1	11'-6"	11'-6"	3 3/16"	2"
168.7	11'-6"	11'-6"	3 3/16"	2"
170.0	11'-4"	11'-4"	3 3/16"	2"
175.6	11'-0"	11'-0"	2 3/4"	2"

MAXIMUM DESIGN LOAD W (p.s.f.)	MAXIMUM PANEL SPAN L (ft.)		MINIMUM SEPARATION TO GLASS (in.)	
	*	**	*	**
176.6	10'-11"	10'-11"	2 3/4"	2"
180.3	10'-9"	11'-7"	2 3/4"	2"
185.0	10'-5"	11'-4"	2 3/4"	2"
188.0	10'-3"	11'-1"	2 1/16"	2"
192.5	10'-0"	10'-10"	2 1/16"	2"
197.2	9'-10"	10'-7"	2 1/16"	2"
199.1	9'-8"	10'-6"	2 1/16"	2"
204.7	9'-5"	10'-2"	2 1/16"	2"
211.3	9'-2"	9'-10"	2 1/16"	2"
216.9	8'-11"	9'-8"	2 1/16"	2"
221.6	8'-9"	9'-5"	2 1/16"	2"
226.3	8'-6"	9'-3"	2 1/16"	2"

* FOR SHUTTERS INSTALLED WITHIN THE FIRST 30'-0" ELEVATION OF BUILDING, SEE TABLE 1 FOR MINIMUM SEPARATION FOR SPANS LESS THAN THE MAXIMUM ALLOWED.
 ** FOR SHUTTERS INSTALLED ABOVE 30'-0" ELEVATION OF BUILDING, MEASURED AT BOTTOM OF SHUTTER.

TABLE 1:

MINIMUM SEPARATION BETWEEN GLASS & BACK OF SHUTTER FOR A GIVEN SHUTTER SPAN "L", FOR SHUTTERS INSTALLED WITHIN THE FIRST 30'-0" ABOVE GRADE OF A GIVEN BUILDING. 30'-0" ELEVATION SHALL BE MEASURED AT BOTTOM OF SHUTTER.

SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION (in.)
EQUAL OR LESS THAN 9'-0"	2 1/16"
> 9' - 10'	2 7/16"
> 10' - 11'	2 3/4"
> 11' - 12'	3 3/16"
> 12' - 13'	3 9/16"
> 13' - 14'	4"
> 14' - 15'	4 7/16"
> 15' - 16'	4 7/8"
> 16' - 17'	5 3/8"
> 17' - 18'	5 7/8"

PRODUCT RENEWED

ACCEPTANCE No. 00-0524-09
 EXPIRATION DATE July 31, 2003
 By Heinz A. Mator
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE July 31, 1997
 BY Manuel Perez
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 97-0612.03

DADE COUNTY

TILECO Inc.
 TILLIT TESTING & ENGINEERING COMPANY
 6505 N.W. 36th. St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33166
 Phone: (305)871-1830 Fax: (305)871-1831
 WALTER A. TILLIT Jr., P. E.
 FLORIDA Lic. # 44167

MEGA FOLDING STORM SHUTTER
ROBINSON & SONS SHUTTER CO.
 8400 N.W. 96th. ST.
 MIAMI, FL. 33166

REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1			2		
2			4		

SCALE
 6/5/97 DATE
 97 - 164 DRAWING No
 SHEET 4 OF 5

Manuel Perez
 6/5/97

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING (in.) SCHEDULE.

(1)	(2)
-----	-----

MAXIMUM DESIGN LOAD W (p.s.f.)	WALL MOUNTING INSTALLATION AT TOP		WALL MOUNTING INSTALLATION AT BOTTOM			CEILING MOUNTING INSTALLATION TOP & BOTTOM			
	FROM 45.1 TO 61.8	10"	7"	6"	4"		10"	8"	
FROM 61.8 TO 91.4	8"	5"	4"	3"		9"	7"		
FROM 91.5 TO 134.3	9"	6"	4"	5"	3"	3"	9"	7"	5"
FROM 134.4 TO 168.1	7"	5"	4"	4"	3"	3"	9"	6"	5"
FROM 168.2 TO 226.3	5"	3"	3"	3"	2 1/2"	2 1/2"	6"	4"	4"

(3)	(4)	(5)
-----	-----	-----

ANCHOR SPACING LEGEND

- | | |
|--|---|
| (1) Max. ANCHOR SPCG. VALID FOR SPANS OF 8'-9" OR LESS. | (3) Max. ANCHOR SPCG. VALID FOR SPANS OF 5'-0" OR LESS. |
| (2) Max. ANCHOR SPCG. VALID FOR SPANS GREATER THAN 8'-9" TO MAXIMUM ALLOWED. | (4) Max. ANCHOR SPCG. VALID FOR SPANS GREATER THAN 5'-0" TO 7'-6". |
| | (5) Max. ANCHOR SPCG. VALID FOR SPANS GREATER THAN 7'-6" TO Max. ALLOWED. |

PRODUCT RENEWED
 ACCEPTANCE No. 00-0524-09
 EXPIRATION DATE July 31, 2003
 By Heather A. Miller
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE JULY 31, 1997
 BY Manuel Perez
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 97-0612.03

DADE COUNTY

Walter A. Tillit Jr.
 6/5/97

 TILLOT TESTING & ENGINEERING COMPANY 8595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 Fax: (305)871-1531 WALTER A. TILLOT Jr., P. E. FLORIDA Lic. 44167	MEGA FOLDING STORM SHUTTER	SCALE																		
	ROBINSON & SONS SHUTTER CO. 8400 N.W. 96th St. MIAMI, FL 33166	6/5/97 DATE																		
<table border="1"> <thead> <tr> <th>REV. NO</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-</td> <td>-</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> </tr> </tbody> </table>	REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	-	-	3			2			4			97 - 164 DRAWING No	SHEET 5 OF 5
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE															
1	-	-	3																	
2			4																	