



MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

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

PRODUCT CONTROL NOTICE OF ACCEPTANCE

General Hurricane Shutter Corp.
1650 West 31st Place
Hialeah Gardens FL 33012

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

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

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

Your application for Product Approval of:

ASSA/Extruded Aluminum Bertha Bahama 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 approval shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at anytime 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 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.

Acceptance No.: 00-0126.01

Expires: 03/03/2003

Raul Rodriguez
Chief Product Control Division

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 Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director

Miami-Dade County
Building Code Compliance Office

Approved: 03/03/2000

1 of 3



General Hurricane Shutter Corp.

ACCEPTANCE No. : 00-0126.01

APPROVED : MAR 03 2000

EXPIRES : MAR 03 2003

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

This approves an extruded aluminum bahama 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 extruded aluminum bahama type shutter and its components shall be constructed in strict compliance with the following documents: Drawing No. 00-004, titled "ASSA / Extruded Bertha Bahama Shutter", prepared by Tilteco Inc., dated January 7, 2000, sheets 1 through 8 of 8, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date 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 extruded aluminum bahama 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".

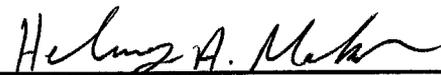
6. BUILDING PERMIT REQUIREMENTS

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

General Hurricane Shutter Corp.

ACCEPTANCE No. : 00-0126.01

APPROVED : MAR 03 2000

EXPIRES : MAR 03 2003

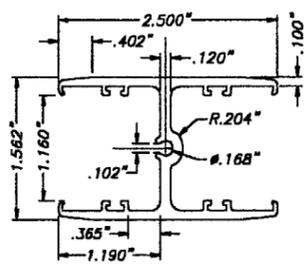
NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

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.

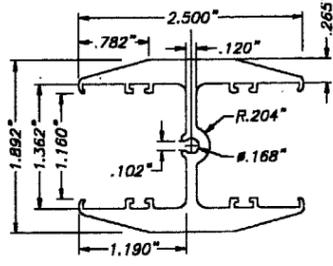
END OF THIS ACCEPTANCE



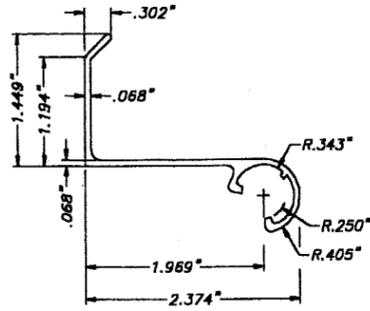
Helmy A. Makar, P.E.- Product Control Examiner
Product Control Division



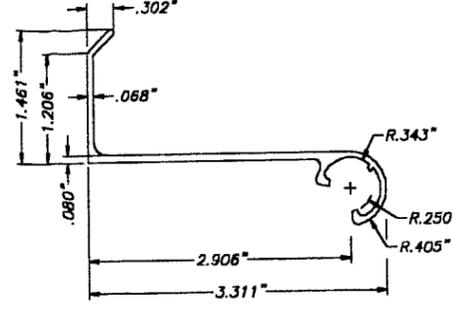
A1 REGULAR INTERIOR MULLION
6005-T5 Alum. ALLOY
SCALE: 1/2" = 1"



A2 HEAVY INTERIOR MULLION
6005-T5 Alum. ALLOY
SCALE: 1/2" = 1"

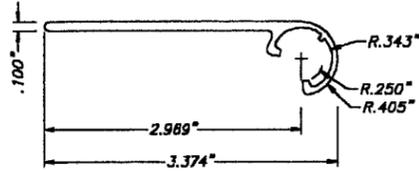


B FEMALE HINGE
SCALE: 1/2" = 1"

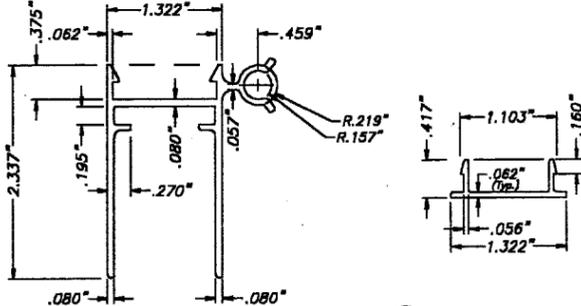


C 1" B. O. FEMALE HINGE
SCALE: 1/2" = 1"

COMPONENTS

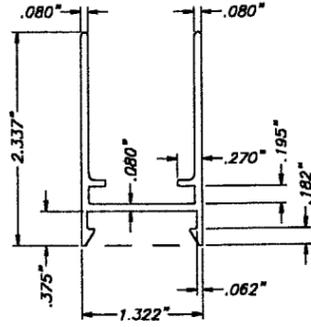


D FLAT FEMALE HINGE
SCALE: 1/2" = 1"

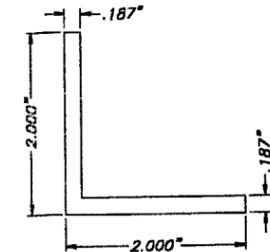


E BAHAMA MALE FRAME
SCALE: 1/2" = 1"

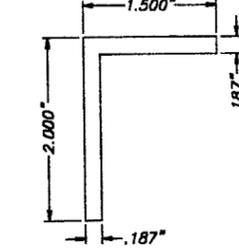
F SNAP CAP
SCALE: 1/2" = 1"



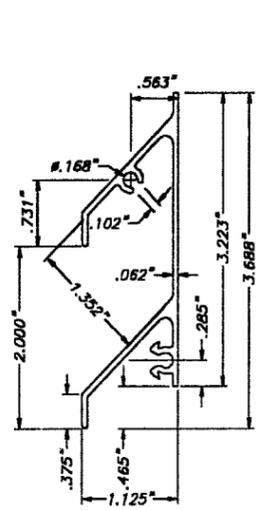
G BAHAMA FRAME
SCALE: 1/2" = 1"



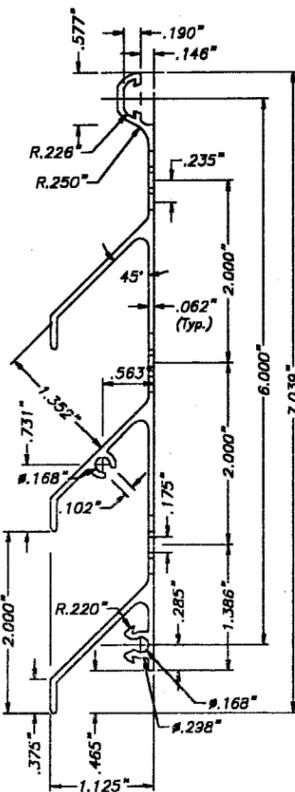
H CORNER KEY
1" LONG
SCALE: 1/2" = 1"



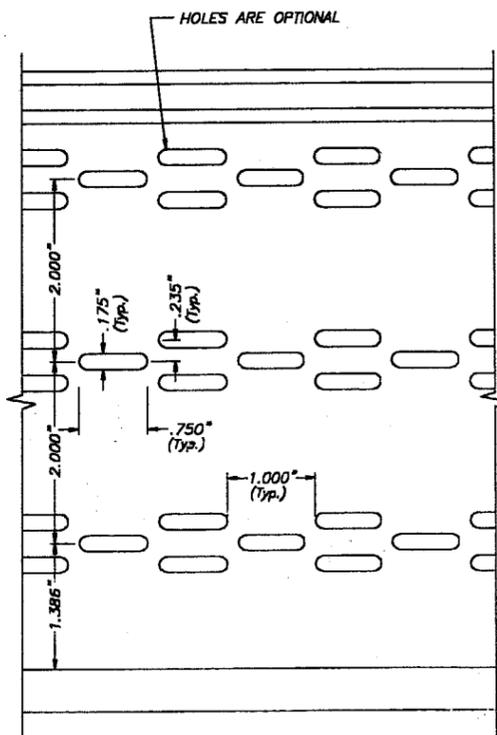
N WALL MOUNT Alum. BRACKET
4" LONG
SCALE: 1/2" = 1"



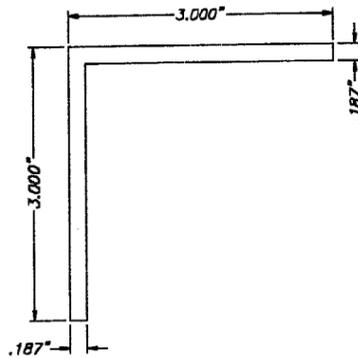
I HALF SHUTTER BLADE
SCALE: 1/2" = 1"



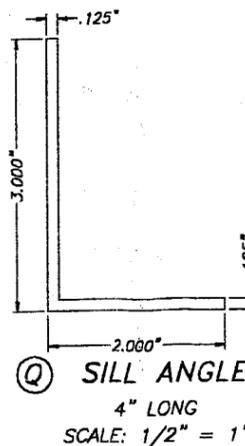
J SHUTTER BLADE
SCALE: 1/2" = 1"



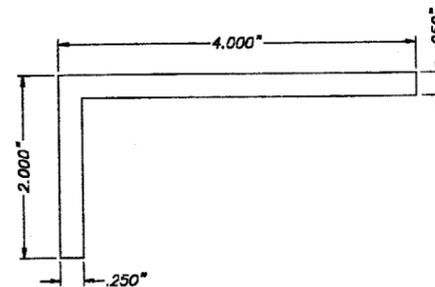
SHUTTER BLADE ELEVATION
SCALE: 1/2" = 1"



O BUILD-OUT Alum. BRACKET
4" LONG
SCALE: 1/2" = 1"



Q SILL ANGLE
4" LONG
SCALE: 1/2" = 1"



P BUILD-OUT SIDE BRACKET
4" LONG
SCALE: 1/2" = 1"

GENERAL NOTES:

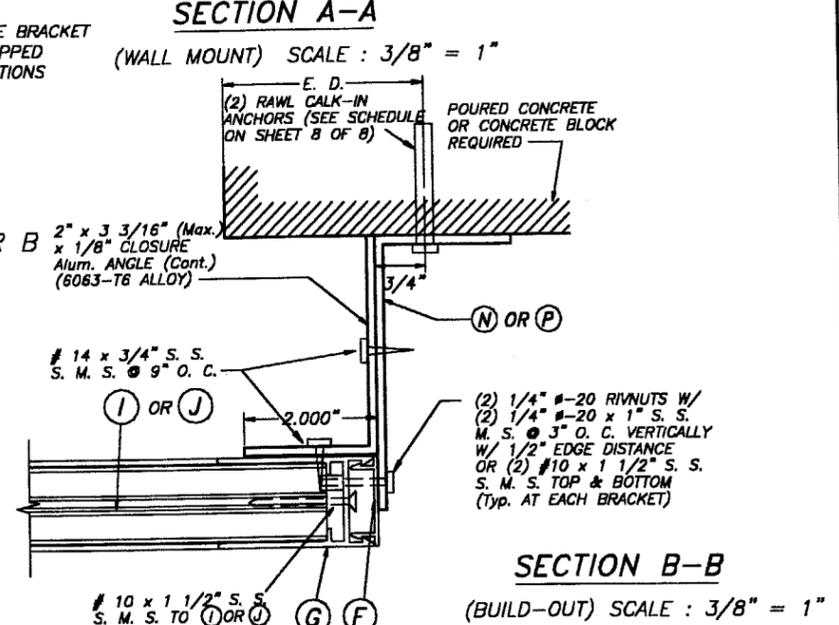
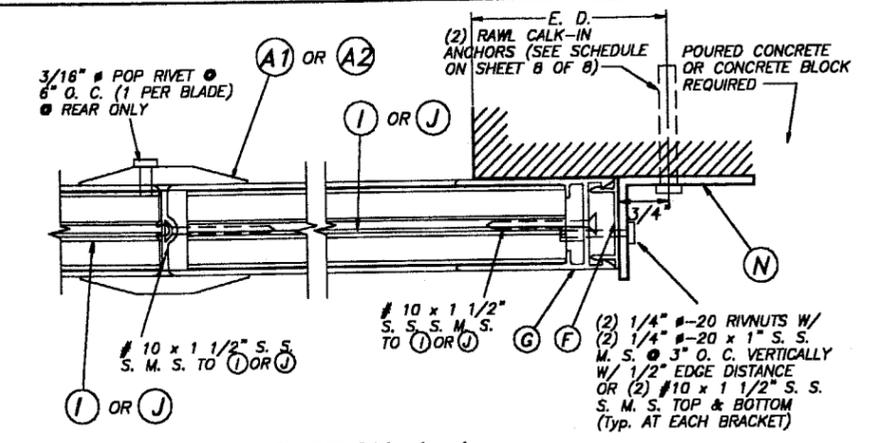
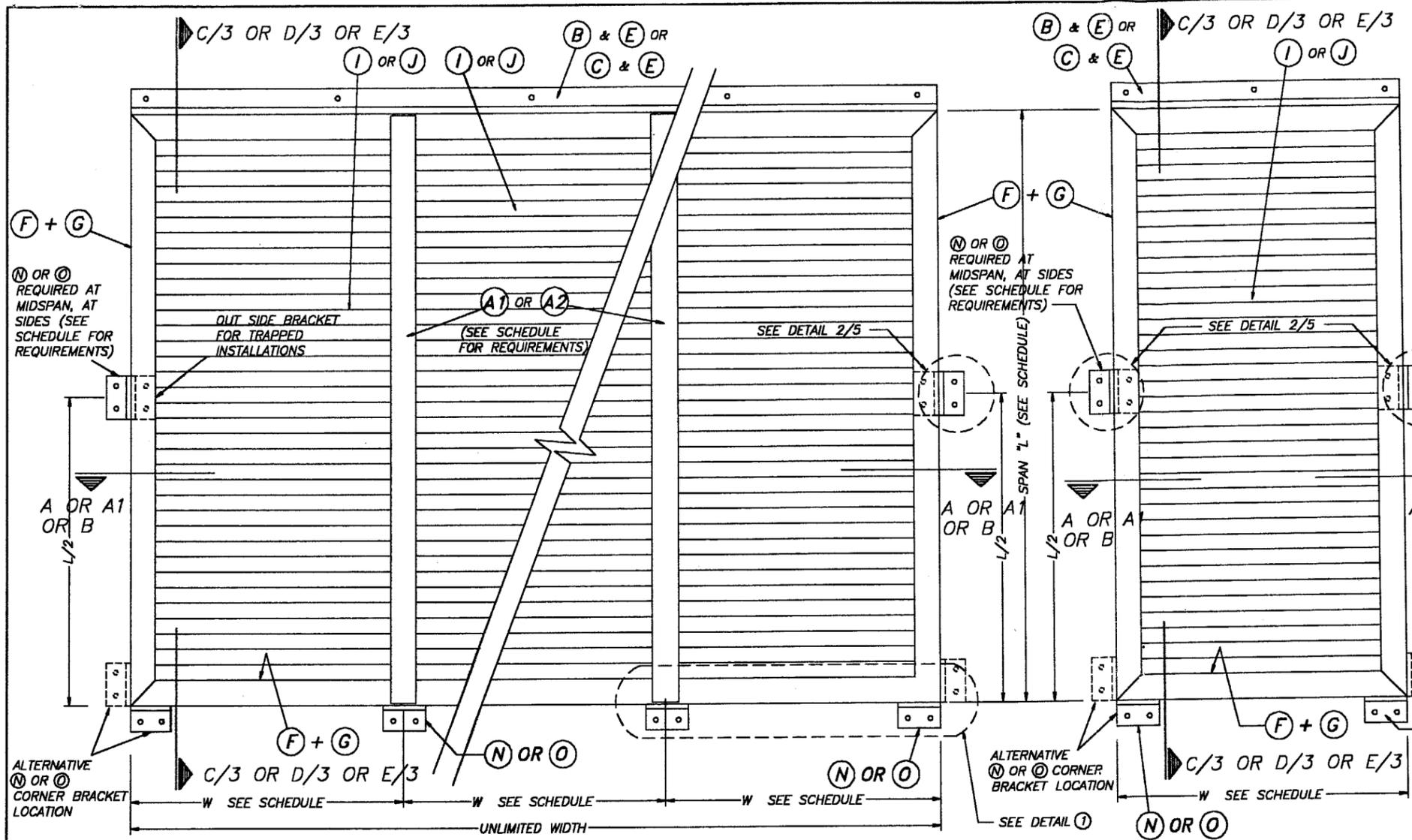
- BAHAMA SHUTTER HAS BEEN DESIGNED IN ACCORDANCE WITH THE DADE COUNTY, 1994 EDITION OF THE SOUTH FLORIDA BUILDING CODE. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 6 OF ASCE 7-88, WITH 110 m.p.h. BASIC WIND SPEED. BAHAMA SHUTTER'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 2315 & 2314 RESPECTIVELY OF THE ABOVE MENTIONED CODE AS PER ATL REPORT # 0923.01-97.
- ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALLOY (UNLESS OTHERWISE NOTED).
- ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 SERIES W/ 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH.
- ALL ALUMINUM POP RIVETS TO BE 5052 ALUMINUM ALLOY WITH ALUMINUM MANDREL.
- BOLTS TO BE 2024-T4 ALUMINUM ALLOY GALVANIZED OR STAINLESS STEEL WITH 35 ksi MINIMUM YIELD POINT.
- ANCHORS TO WALL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED)
 - (A) TO EXISTING POURED CONCRETE:
 - 1/4" # TAPCON ANCHORS AS MANUFACTURED BY I.T.W. RAMSET OR ELCO INDUSTRIES, INC.
 - 1/4" # x 7/8" RAWL CALK-IN ANCHORS AS MANUFACTURED BY THE RAWL PLUG COMPANY, INC.
 - NOTES:
 - A.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS INTO POURED CONCRETE IS 1 1/2".
 - A.2) RAWL CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED.
 - 1/4" #-20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
 - A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, OR PAVERS BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS INDICATED ON NOTES A.1) & A.2) ABOVE.
 - (B) TO EXISTING CONCRETE BLOCK WALL:
 - 1/4" # TAPCON ANCHORS AS MANUFACTURED BY I.T.W. RAMSET OR ELCO INDUSTRIES, INC.
 - 1/4" # x 7/8" RAWL CALK-IN ANCHORS AS MANUFACTURED BY THE RAWL PLUG COMPANY, INC.
 - NOTES:
 - B.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS INTO THE CONCRETE BLOCK UNIT SHALL BE 1 1/4".
 - B.2) RAWL CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED.
 - 1/4" #-20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
 - B.3) IN CASE THAT PRECAST STONE OR PRECAST CONCRETE PANELS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS INDICATED ON NOTES B.1) & B.2) ABOVE.
 - (C) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.
- EACH SHUTTER SHALL HAVE A LEGIBLE AND READILY VISIBLE MARKING INSTRUCTING OWNER OR TENANT TO SECURE SHUTTER WITH SIDE & SILL BRACKETS DURING PERIODS OF HURRICANE WARNINGS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE SHUTTER IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE.
- SHUTTER'S MANUFACTURER STAMP SHALL BE PLACED ON THE EXPOSED SURFACE OF THE BAHAMA FRAME (E) OR (I). ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABEL SHALL READ AS FOLLOWS:
GENERAL HURRICANE SHUTTER CORP.
HIALEAH, FLORIDA
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: *March 03, 2000*
BY: *Helmut A. Mohr*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. *00-0126-01*

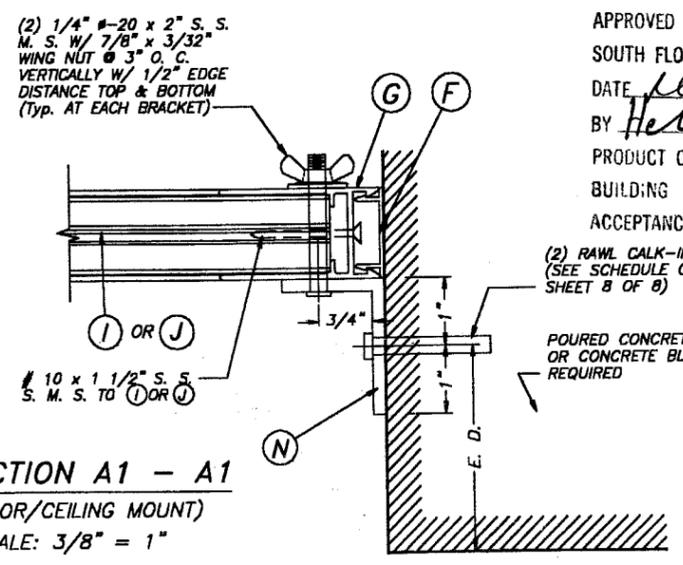
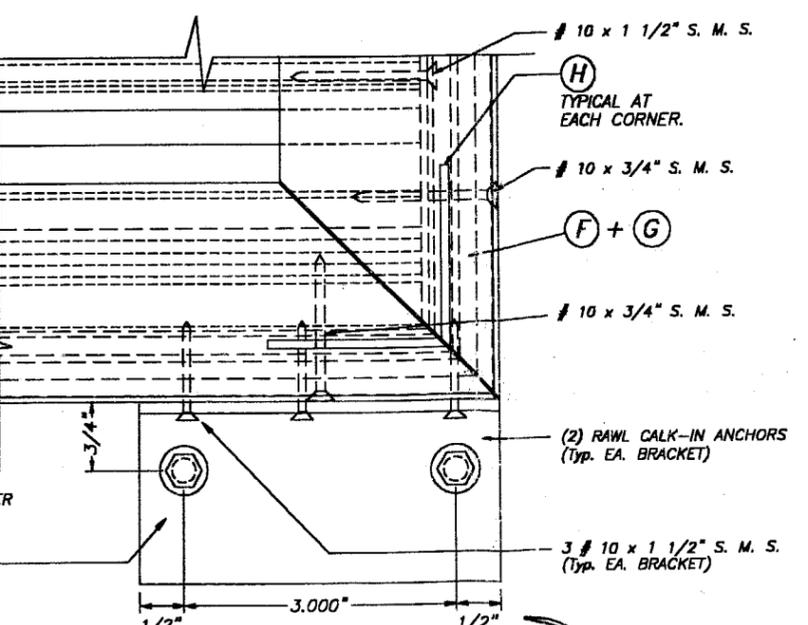
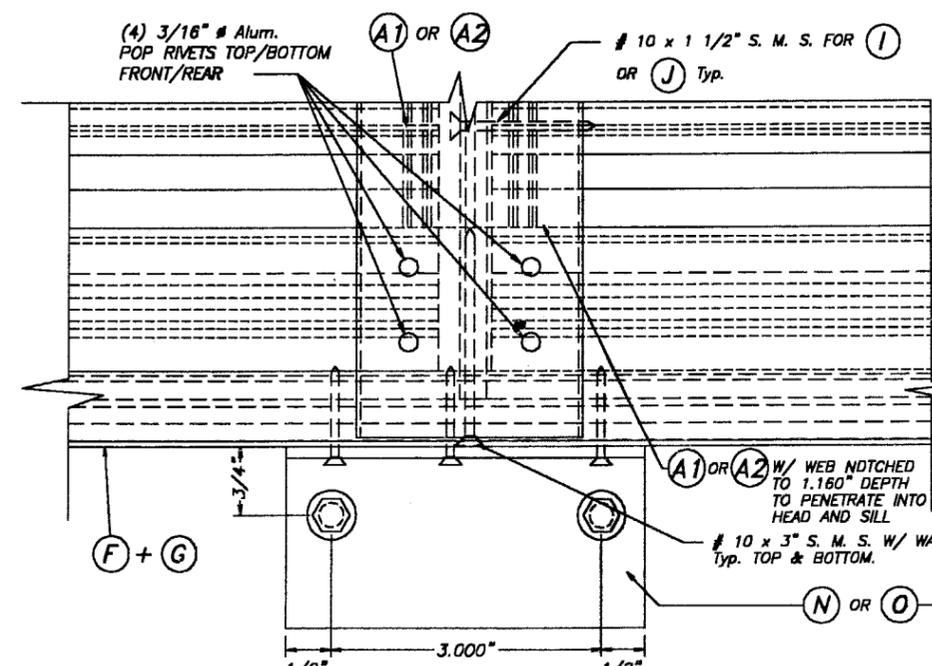
RECEIVED
2000 JAN 25 PM 1:37
BUILDING CODE COMPLIANCE
ADMINISTRATIVE DIVISION
MIAMI-DADE COUNTY

 TILECO Inc. TILLIT TESTING & ENGINEERING COMPANY 6585 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33168 Phone: (305)871-1530 Fax: (305)871-1531 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167		ASSA / EXTRUDED BERTHA BAHAMA SHUTTER		AS SHOWN SCALE		
		GENERAL HURRICANE SHUTTER CORP. (A.S.S.A. # 71) 1650 WEST 31st PL. HIALEAH, FL. 33012		1/7/00 DATE		
				00-004 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 1 OF 8
1	-	-	3	-	-	
2	-	-	4	-	-	

00-0126-01



APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE *March 03, 2000*
 BY *Helsing A. Mark*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. *00-0126.01*



TILECO Inc.
 TILLIT TESTING & ENGINEERING COMPANY
 6565 N.W. 38th St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33188
 Phone: (305)871-1530 Fax: (305)871-1531
 WALTER A. TILLIT Jr., P. E.
 FLORIDA Lic. # 44167

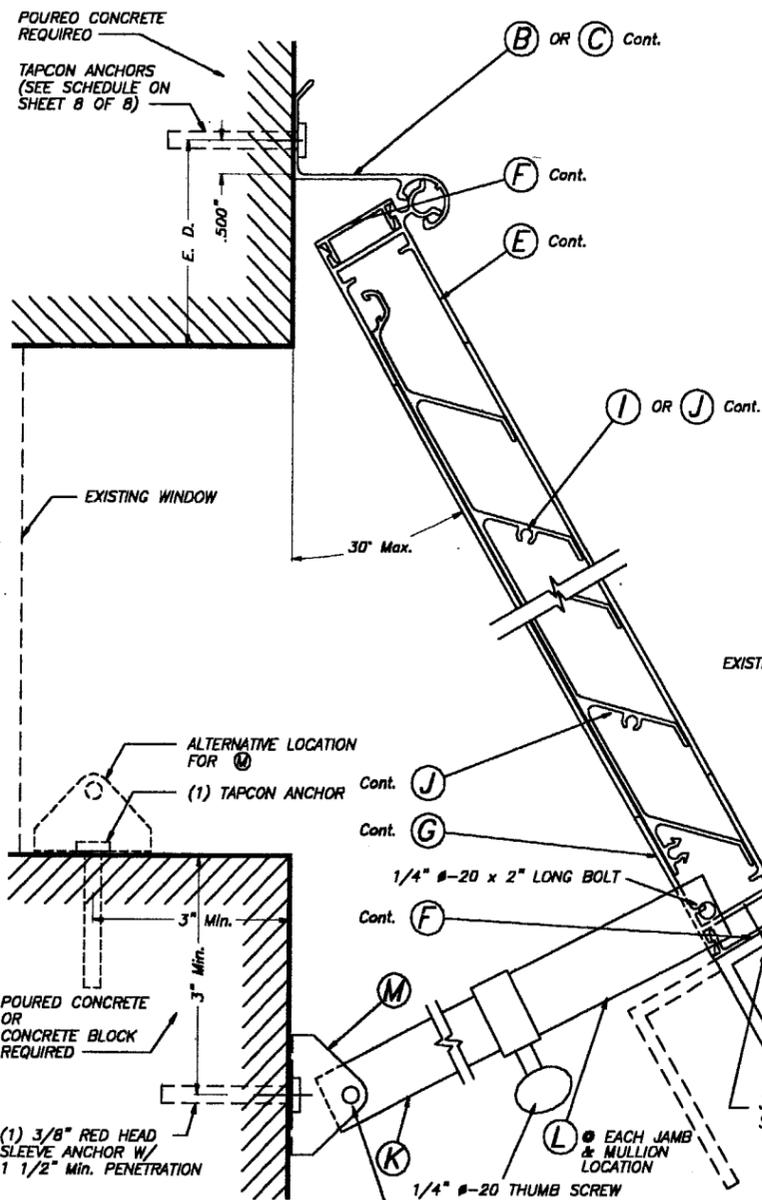
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER

GENERAL HURRICANE SHUTTER CORP.
 (A.S.S.A. # 71)
 1650 WEST 31st PL
 HIALEAH, FL. 33012

AS SHOWN SCALE
 1/7/00 DATE
 00-004 DRAWING No
 SHEET 2 OF 8

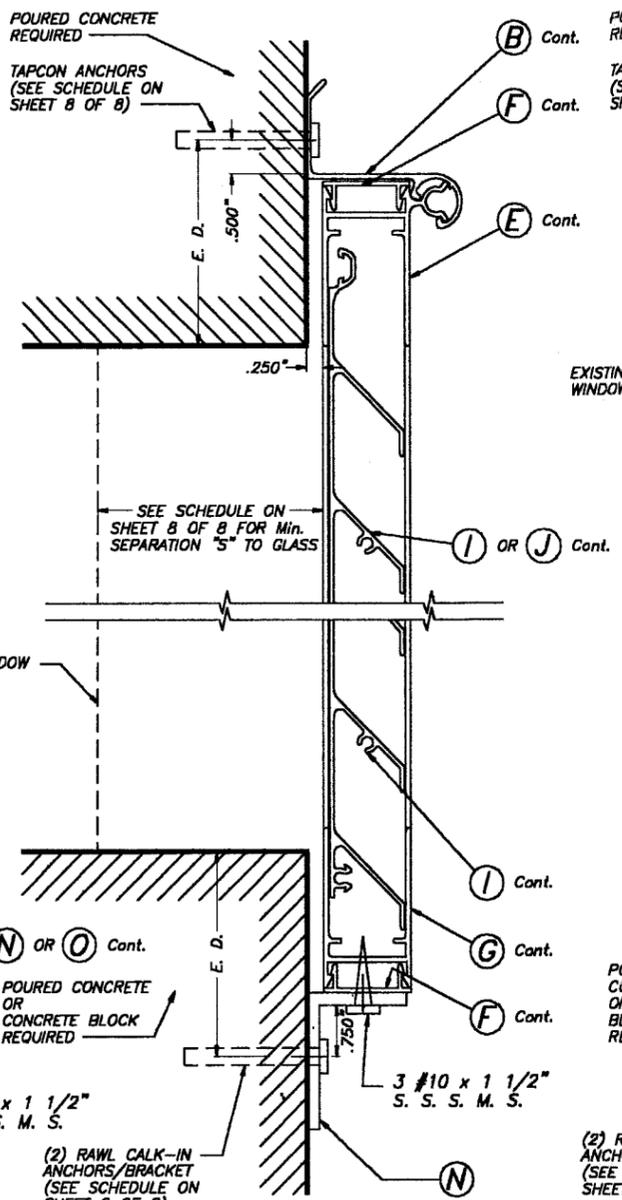
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2	-	-	4	-	-

David
 4/12/00



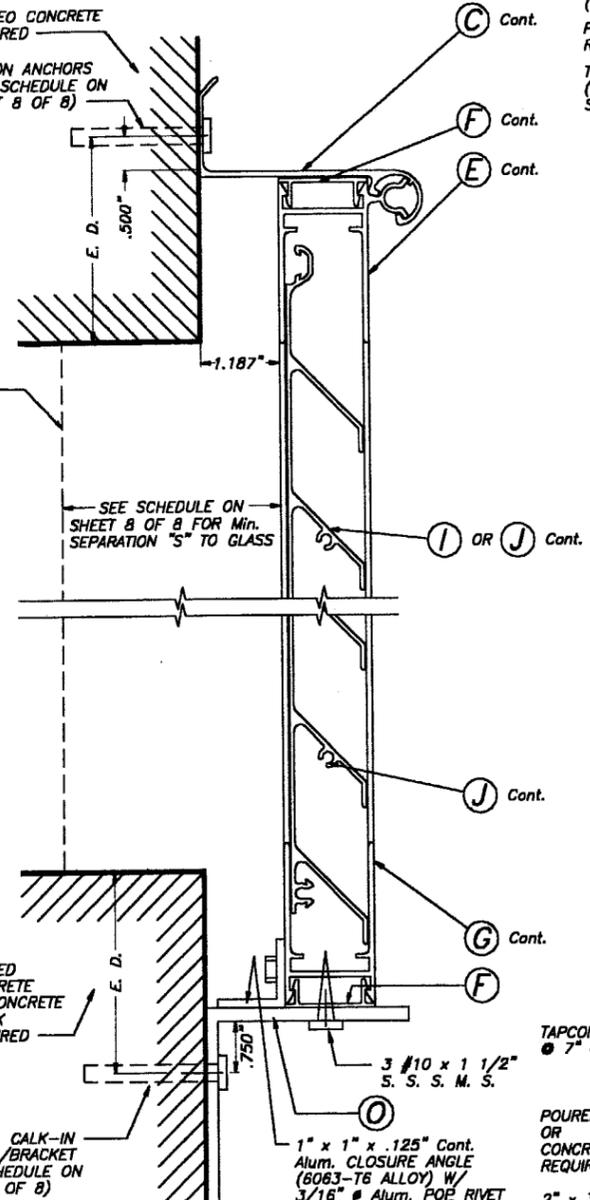
SECTION C - C (WALL MOUNT)

OPEN POSITION (74 m.p.h. WIND SPEED)
SCALE: 3/8" = 1"



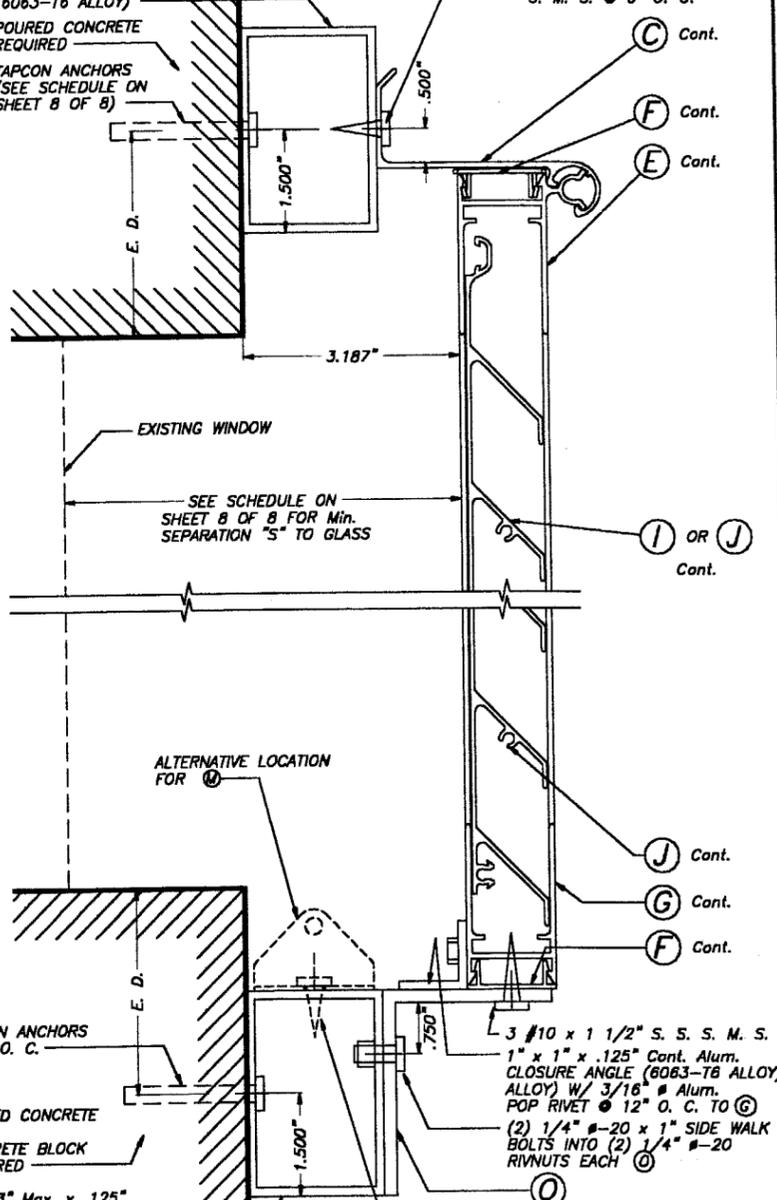
SECTION C - C (WALL MOUNT)

HURRICANE POSITION
SCALE: 3/8" = 1"



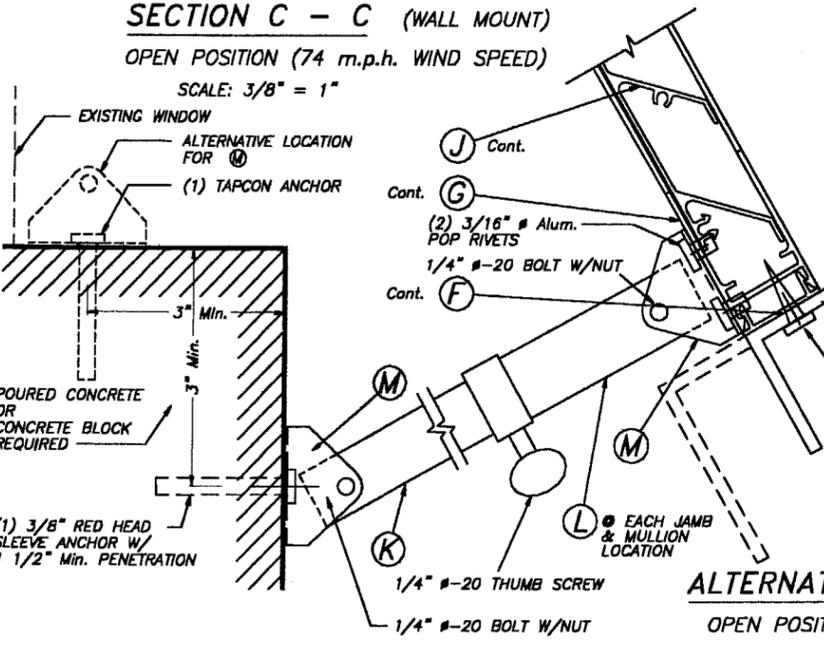
SECTION D - D (BUILD-OUT)

HURRICANE POSITION
SCALE: 3/8" = 1"



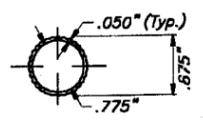
SECTION E - E (BUILD-OUT)

HURRICANE POSITION
SCALE: 3/8" = 1"

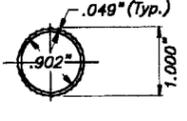


ALTERNATE SECTION C' - C' (WALL MOUNT)

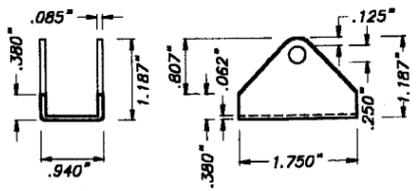
OPEN POSITION SCALE: 3/8" = 1"



(K) .875" SERRATED TUBE
INSIDE ARM
6063-T6 ALLOY
SCALE: 3/8" = 1"



(L) 1" SERRATED TUBE
OUTSIDE ARM
6063-T6 ALLOY
SCALE: 3/8" = 1"



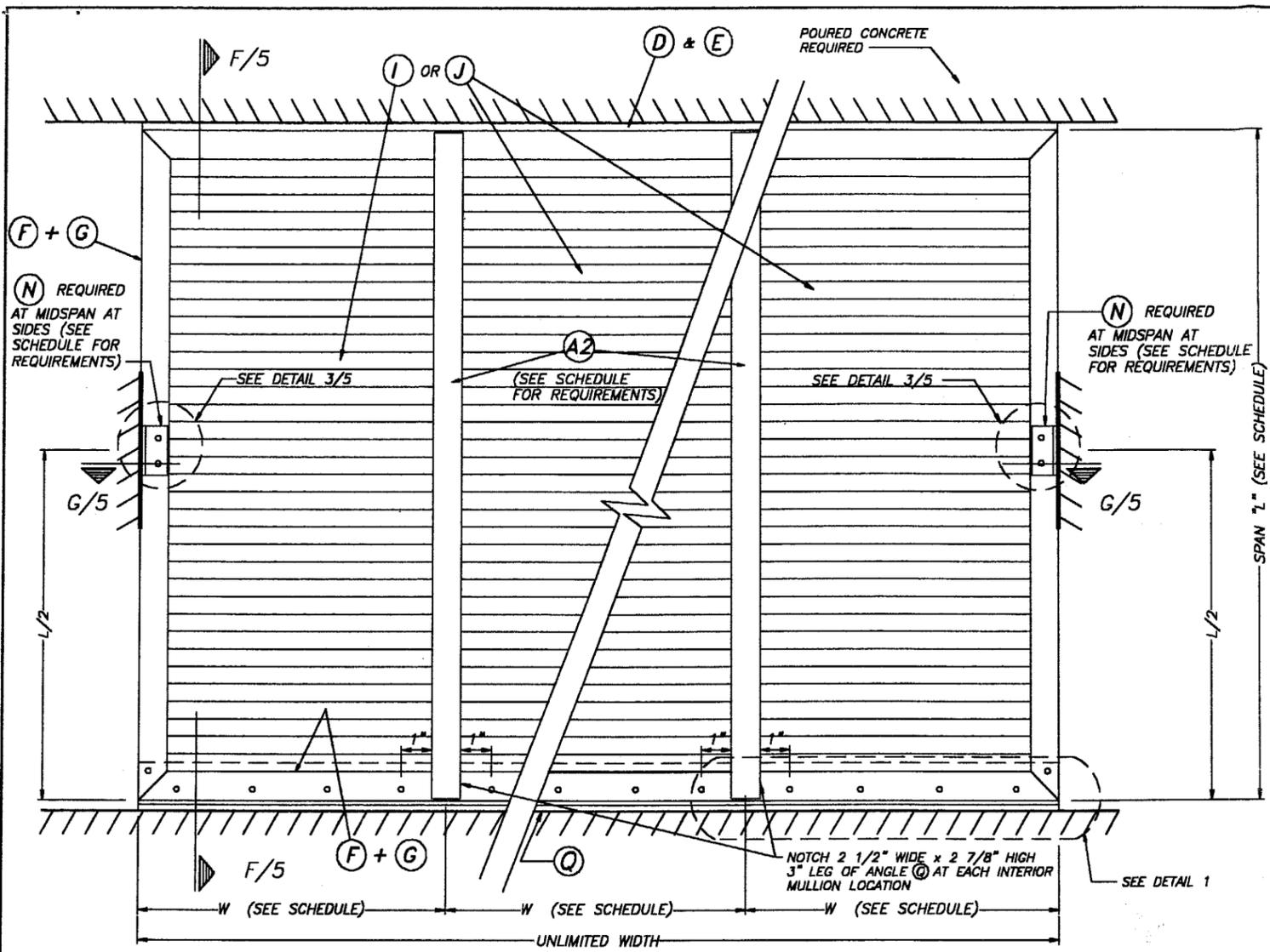
(M) CAMEL BACK HINGE
3003-H14 Alum. ALLOY
SCALE: 3/8" = 1"

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE March 03, 2000
BY Walter A. Tillit
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-0126.01

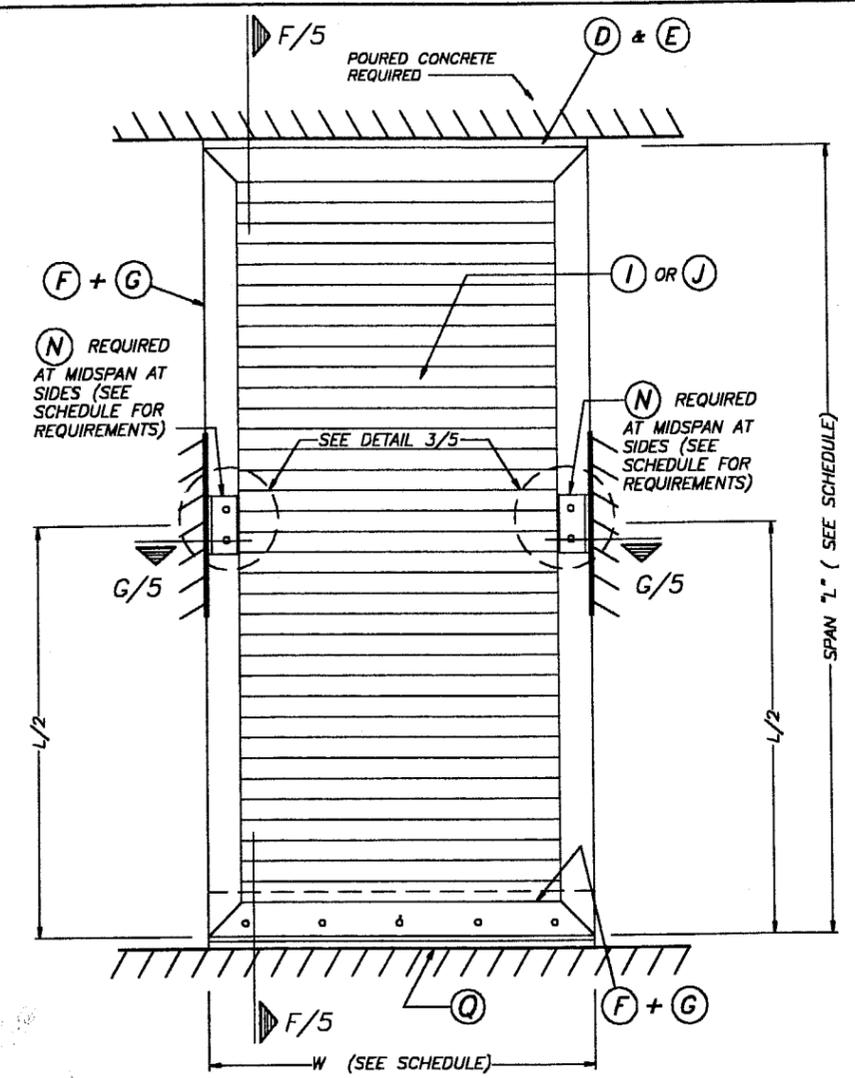
MIAMI-DADE COUNTY

<p>TILECO Inc. TILLIT TESTING & ENGINEERING COMPANY 6595 N.W. 30th St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33168 Phone: (305)871-1530 Fax: (305)871-1531</p> <p>WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167</p>		ASSA / EXTRUDED BERTHA BAHAMA SHUTTER		AS SHOWN SCALE
		<p>GENERAL HURRICANE SHUTTER CORP. (A.S.S.A. # 71) 1850 WEST 31st PL. HIALEAH, FL. 33012</p>		1/7/00 DATE
<p>REV. No. 1</p>		<p>REV. No. 3</p>		00-004 DRAWING No
<p>REV. No. 2</p>		<p>REV. No. 4</p>		SHEET 3 OF 8

Drawn by [Signature]
1/12/00

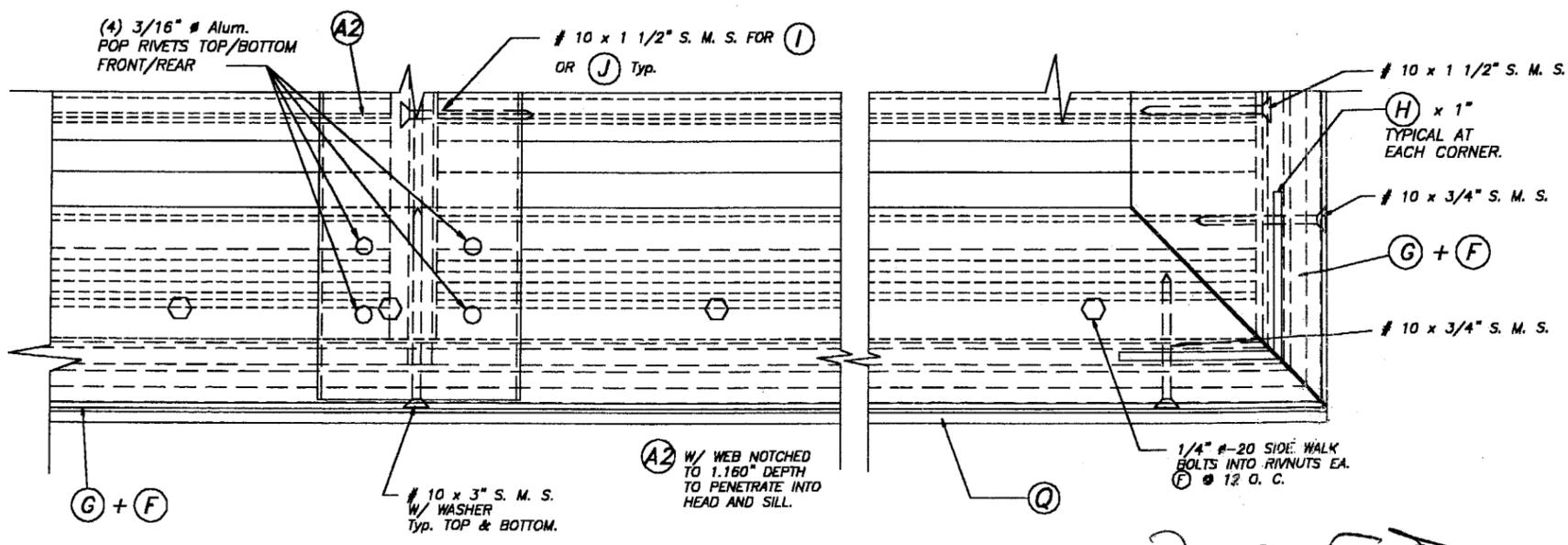


MULTIPLE UNIT



SINGLE UNIT

ELEVATIONS N. T. S.

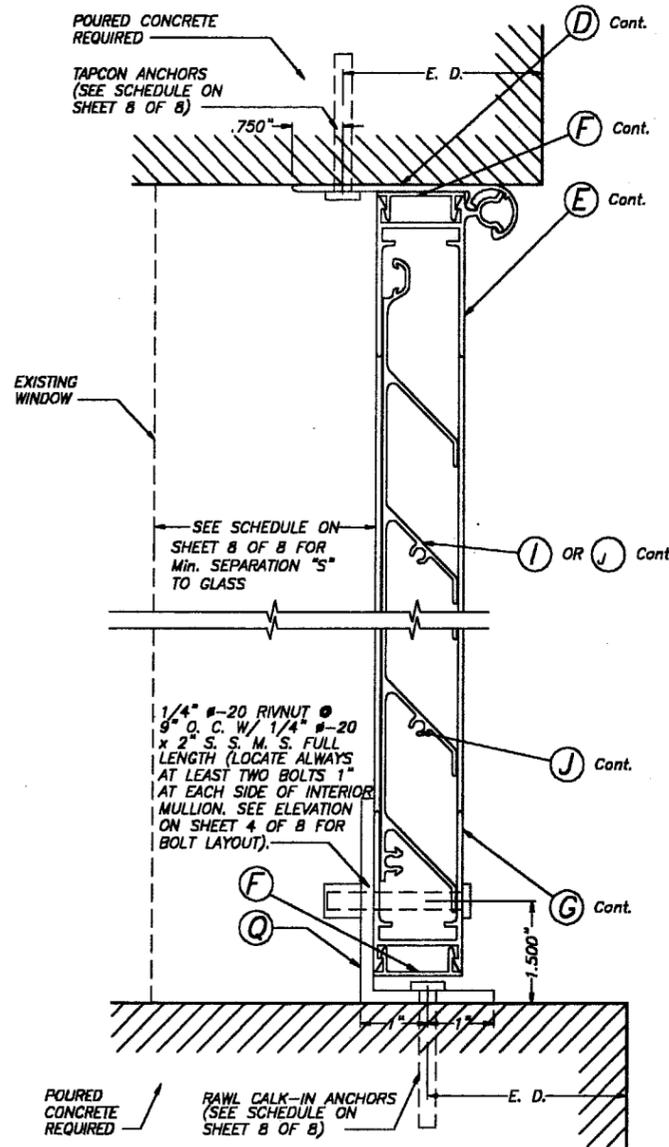


DETAIL 1 SCALE: 1/2" = 1"

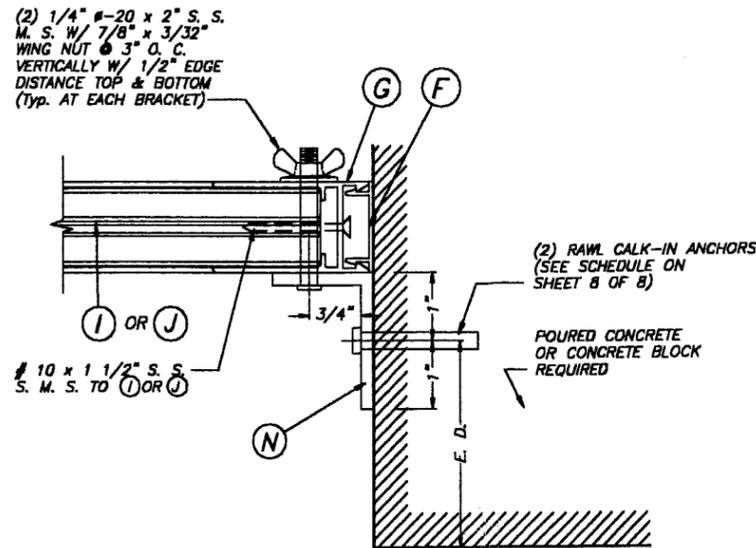
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE March 03, 2000
 BY Helmy A. Maher
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 00-0126.01

MIAMI-DADE COUNTY

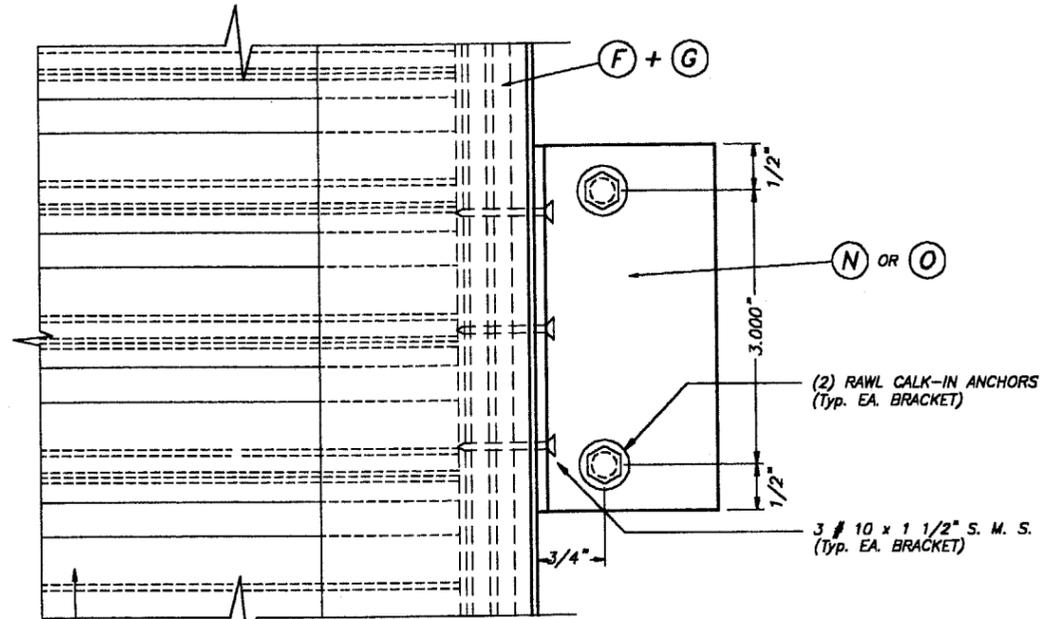
 TILECO INC. <small>TILLIT TESTING & ENGINEERING COMPANY 6585 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33166 Phone: (305)871-1530 Fax: (305)871-1531</small> WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167	ASSA / EXTRUDED BERTHA BAHAMA SHUTTER	AS SHOWN SCALE																		
	GENERAL HURRICANE SHUTTER CORP. <small>(A.S.S.A. # 71) 1850 WEST 31st PL. HIALEAH, FL. 33012</small>	1/7/00 DATE																		
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE															
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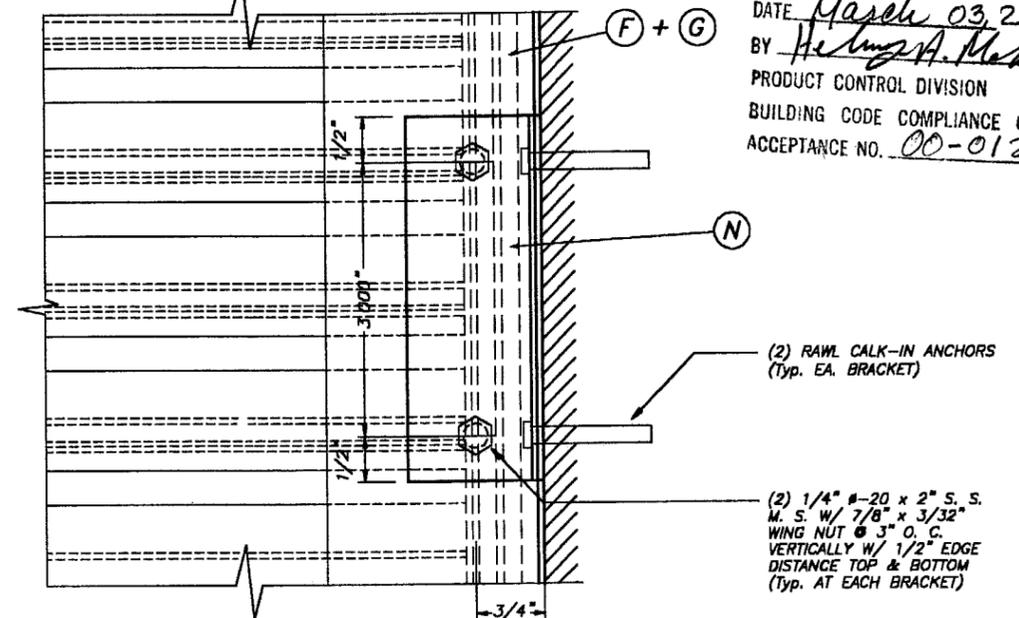
SECTION F - F (FLOOR/CEILING MOUNT)
HURRICANE POSITION
SCALE: 3/8" = 1"



SECTION G - G (FLOOR/CEILING MOUNT)
HURRICANE POSITION
SCALE: 3/8" = 1"



DETAIL 2
SCALE: 1/2" = 1"



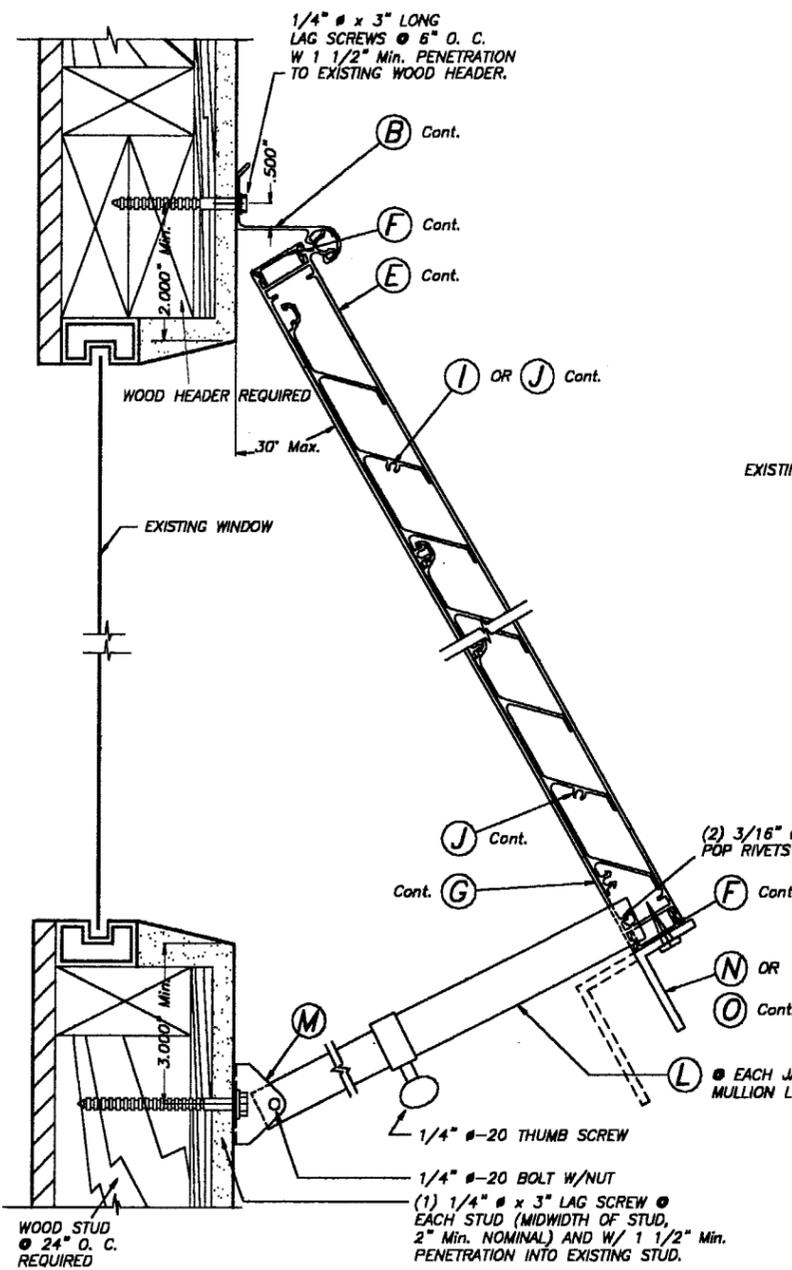
DETAIL 3
SCALE: 1/2" = 1"

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE March 03, 2000
BY William A. Mohr
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-0126-01

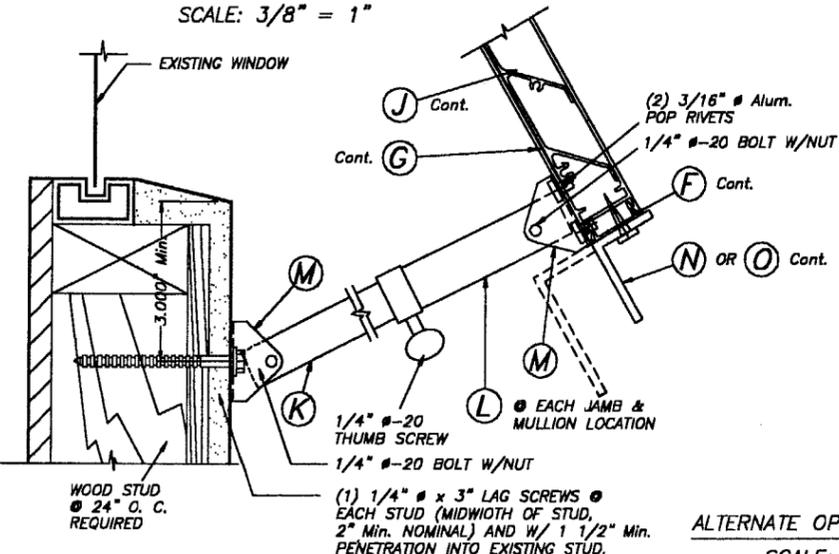
MIAMI-DADE COUNTY

Walter A. Tillit Jr.
1/12/00

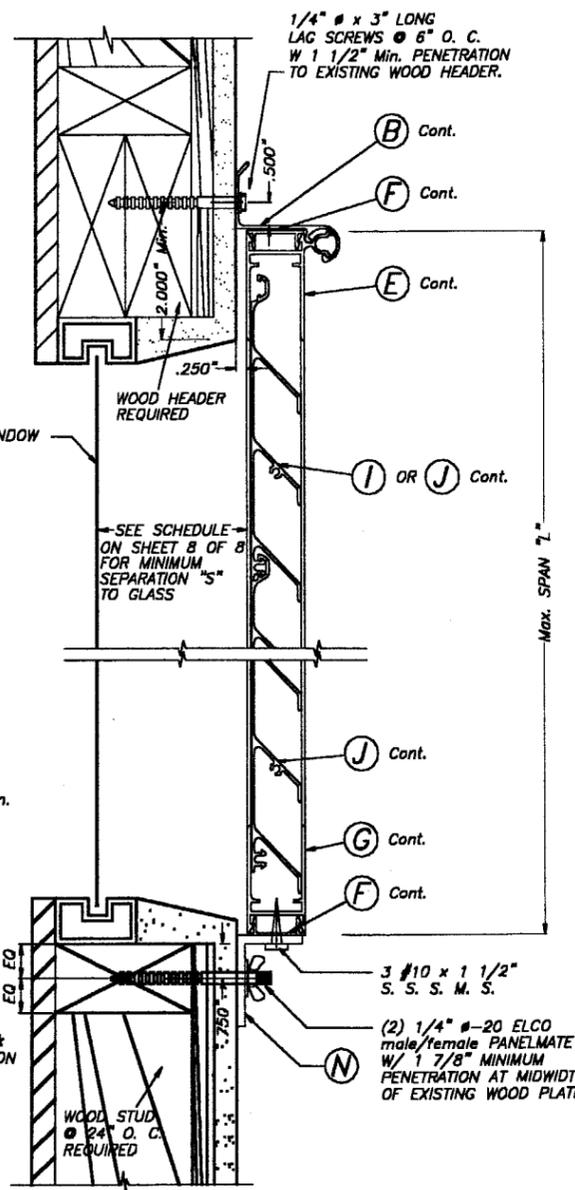
 TILTECO Inc. TILLIT TESTING & ENGINEERING COMPANY 8585 N.W. 38th St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33186 Phone: (305)871-1530 Fax: (305)871-1531 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167		ASSA / EXTRUDED BERTHA BAHAMA SHUTTER		AS SHOWN SCALE	
		GENERAL HURRICANE SHUTTER CORP. (A.S.S.A. # 71) 1650 WEST 31st PL. HIALEAH, FL. 33012		1/7/00 DATE	
				00-004 DRAWING No	
				SHEET 5 OF 8	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	-	-	2	-	-
2	-	-	4	-	-



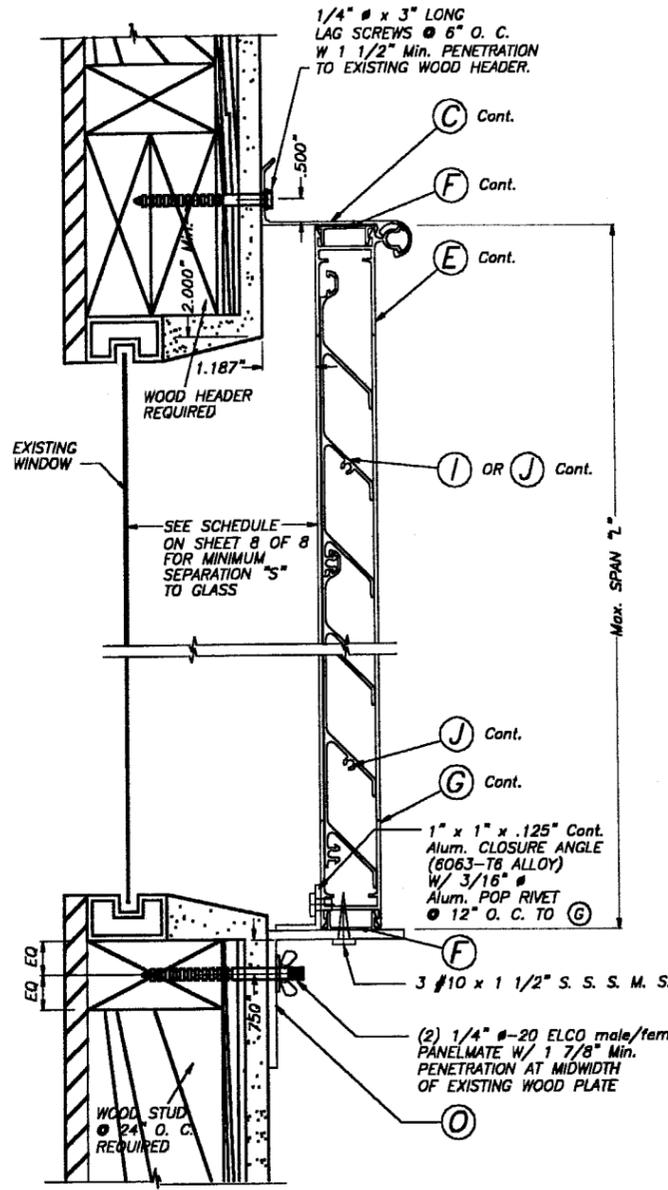
OPEN POSITION DETAIL : (74 m.p.h. OR LESS WIND SPEED)
SCALE: 3/8" = 1"



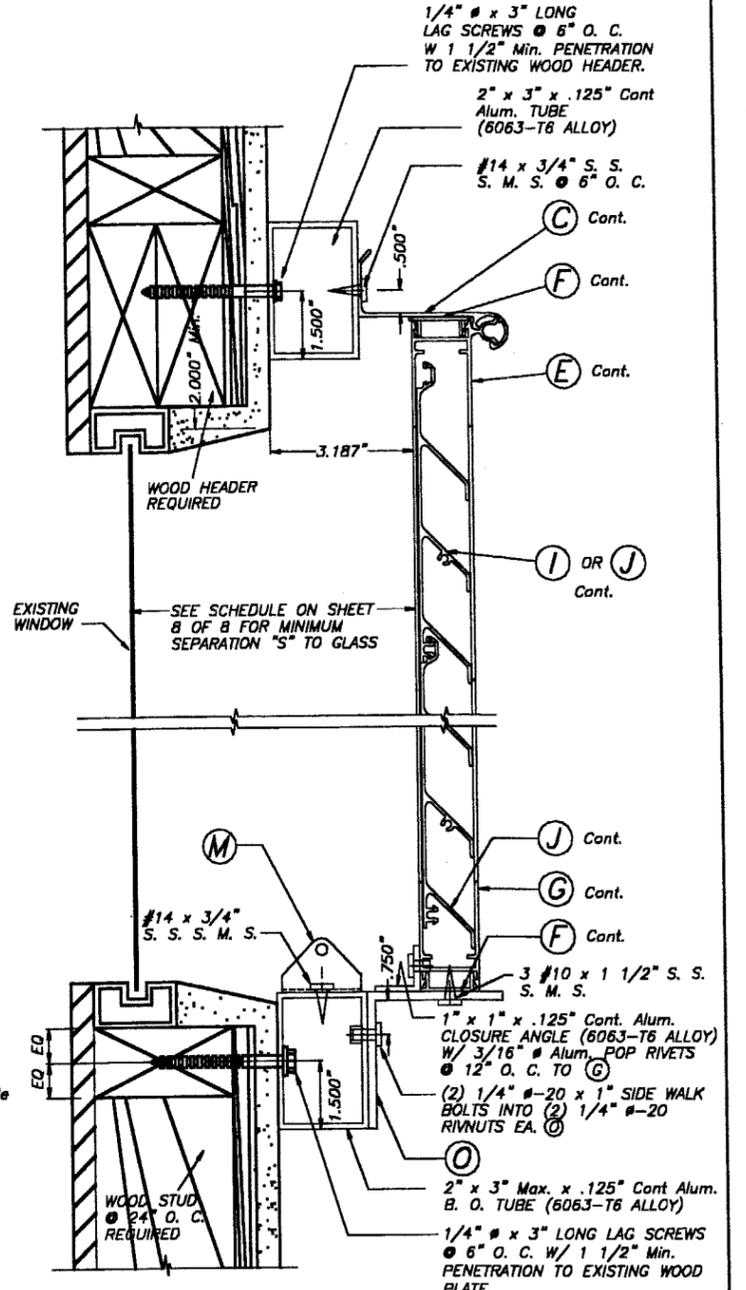
ALTERNATE OPEN POSITION DETAIL
SCALE: 3/8" = 1"



ALTERNATIVE 1
HURRICANE POSITION
SCALE: 3/8" = 1"



ALTERNATIVE 2
HURRICANE POSITION
SCALE: 3/8" = 1"



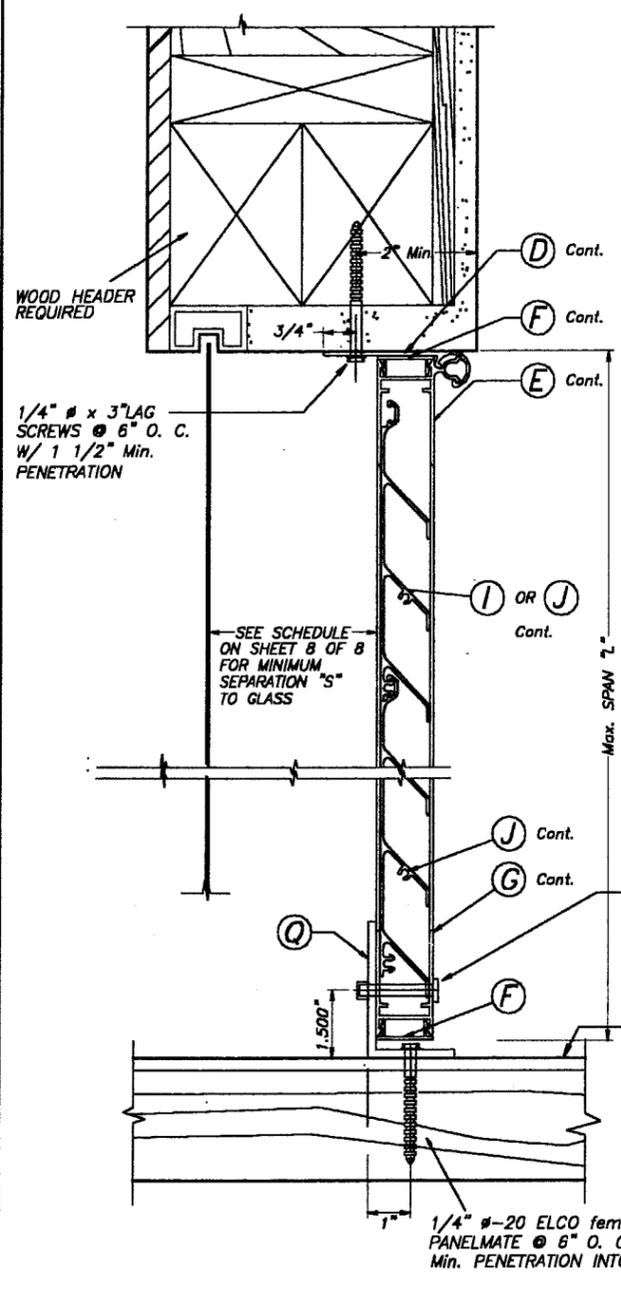
ALTERNATIVE 3
HURRICANE POSITION
SCALE: 3/8" = 1"

WALL MOUNTING INSTALLATION & BUILD-OUT
- SECTION A
INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

- NOTES :
- INSTALLATIONS ARE ONLY VALID FOR INSTALLATIONS WITH DESIGN WIND LOADS LESS OR EQUAL THAN +62.0, -75.0 p.s.f. AND Max. SHUTTER SPAN AS PER SCHEDULES ON SHEET B OF B.
 - 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.
 - FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: March 03, 2000
BY: *Helmut A. M...*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-0126-01

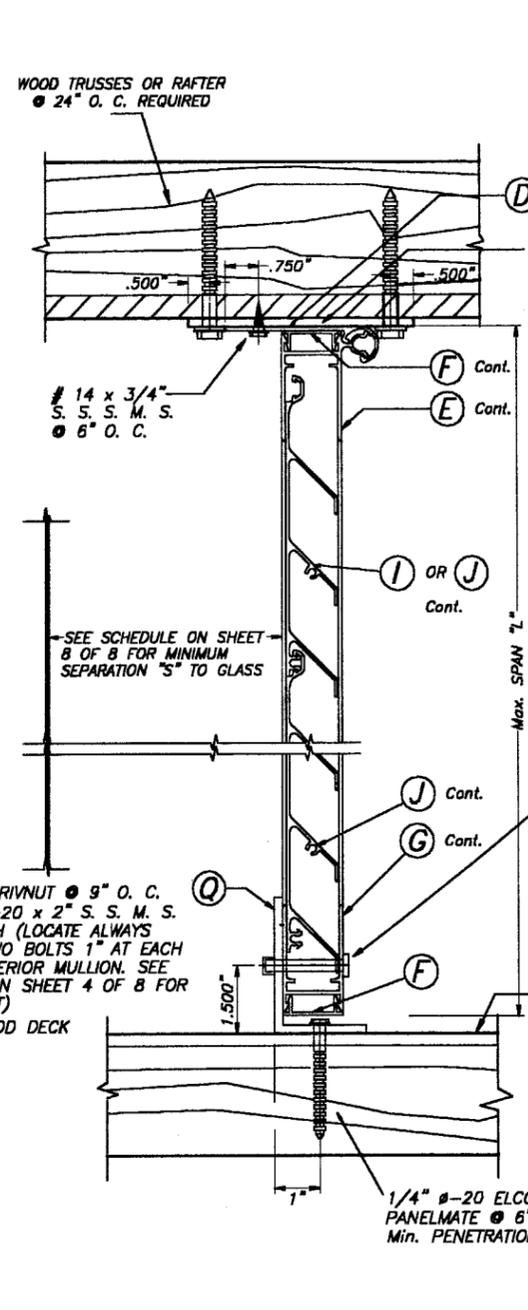
<p>TILLIT TESTING & ENGINEERING COMPANY 6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33168 Phone : (305)871-1530 . Fax : (305)871-1531</p> <p>WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167</p>		<p>ASSA / EXTRUDED BERTHA BAHAMA SHUTTER</p> <p>GENERAL HURRICANE SHUTTER CORP. (A.S.S.A. # 71) 1650 WEST 31st PL. HIALEAH, FL. 33012</p>		<p>AS SHOWN SCALE</p> <p>1/7/00 DATE</p> <p>00-004 DRAWING No</p> <p>SHEET 6 OF 8</p>	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		



ALTERNATIVE 4A

FLOOR/CEILING MOUNTING INSTALLATION

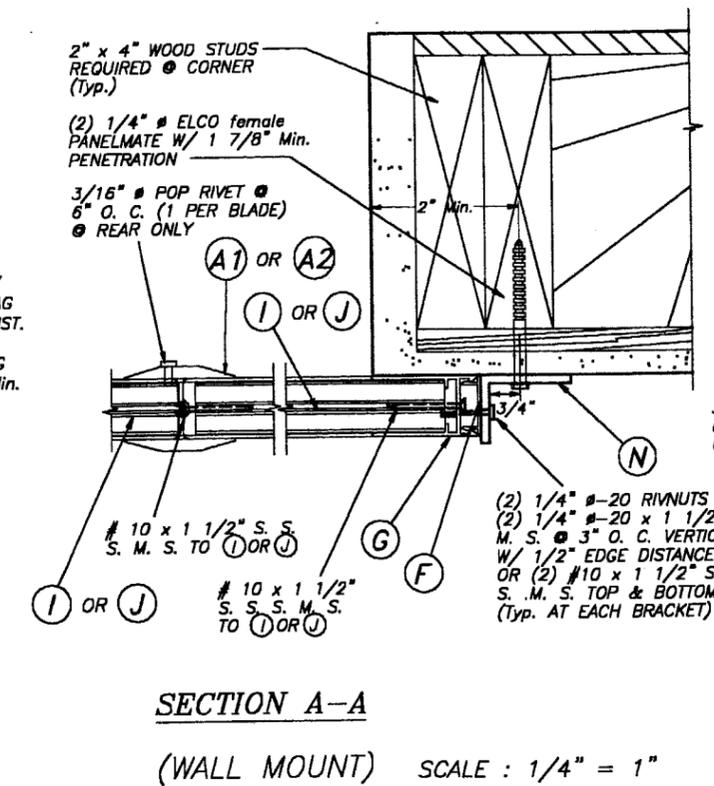
SECTION A SCALE: 1/4" = 1"



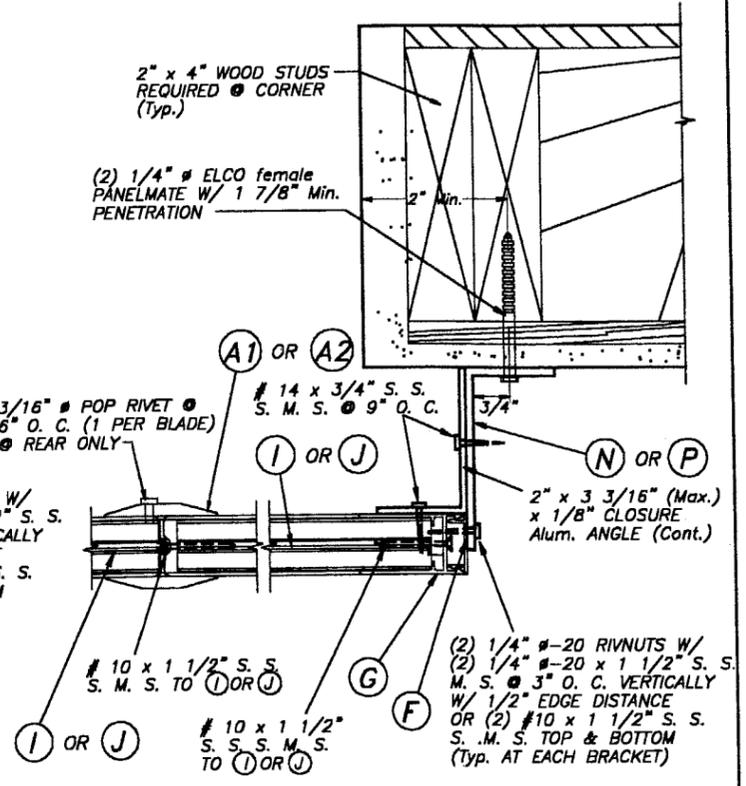
ALTERNATIVE 4B

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

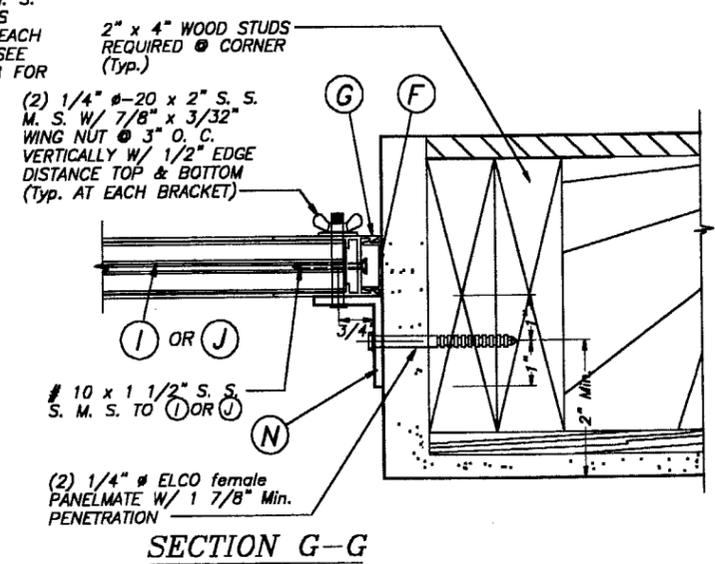
SCALE: 1/4" = 1"



SECTION A-A (WALL MOUNT) SCALE: 1/4" = 1"



SECTION B-B (WALL MOUNT) SCALE: 1/4" = 1"



SECTION G-G (FLOOR/CEILING MOUNT) SCALE: 1/4" = 1"

- NOTES:
- INSTALLATIONS ARE ONLY VALID FOR INSTALLATIONS WITH DESIGN WIND LOADS LESS OR EQUAL THAN +62.0, -75.0 p.s.f. AND Max. SHUTTER SPAN AS PER SCHEDULES ON SHEET 8 OF 8.
 - NEW 2" x 6" P. T. TO BE SOUTHERN PINE No. 2, SURFACED DRY WITH 19% M. C. W/ SPECIFIC DENSITY OF 0.55.
 - FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

Walter A. Tillit Jr.
Tillit

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE *March 03, 2000*
 BY *Walter A. Tillit Jr.*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. *00-0126.01*

MIAMI-DADE COUNTY

<p>TILLIT TESTING & ENGINEERING COMPANY 6585 N.W. 38th St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33168 Phone: (305)871-1530 Fax: (305)871-1531</p> <p>WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167</p>		ASSA / EXTRUDED BERTHA BAHAMA SHUTTER		AS SHOWN SCALE	
		<p>GENERAL HURRICANE SHUTTER CORP. (A.S.S.A. # 71) 1650 WEST 31st PL. HIALEAH, FL. 33012</p>		1/7/00 DATE	
				00-004 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		

SCHEDULE # 1

MAXIMUM SINGLE UNIT FOR A CORRESPONDING DESIGN PRESSURE AND MOUNTING TYPE

BAHAMA SHUTTER TYPE	SINGLE UNIT ELEVATION			
	CASE I : WALL + WALL MOUNT OR TRAPPED AT SIDES (SHEET 2 OF 8)		CASE II : TRAPPED TOP/BOTTOM + SIDES (SHEET 5 OF 8)	
	SIDE BRACKET (Typ.)	ALTERNATE SIDE BRACKET	SIDE BRACKET (Typ.)	ALTERNATE SIDE BRACKET
DESIGN PRESSURE RATING (p.s.f.) AND CASE #	MAXIMUM UNIT WIDTH "W" (IN)	MAXIMUM SPAN "L" (IN)		
		W/O SIDE BRACKET	W/ SIDE BRACKET	MINIMUM SEPARATION TO GLASS (IN)
CASES I & II +56.0 , -63.0	42"	52"	N/A	3 1/8"
CASES I & II +75.0 , -100.0	42"	N/A	96"	2 1/8"

SCHEDULE # 1A

MAXIMUM MULTIPLE UNIT FOR A CORRESPONDING DESIGN PRESSURE AND MOUNTING TYPE

BAHAMA SHUTTER TYPE	MULTIPLE UNIT ELEVATION				
	CASE I : WALL + WALL MOUNT OR TRAPPED AT SIDES (SHEET 2 OF 8)			CASE II : TRAPPED TOP/BOTTOM + SIDES (SHEET 5 OF 8)	
	(A1) OR (A2) SIDE BRACKET (Typ.)	ALTERNATE SIDE BRACKET	UNLIMITED # OF UNITS	(A1) OR (A2) SIDE BRACKET (Typ.)	UNLIMITED # OF UNITS
DESIGN PRESSURE RATING (p.s.f.) AND CASE #	MAXIMUM UNIT WIDTH "W" (IN)	MAXIMUM SPAN "L" (IN)			
		W/O SIDE BRACKET	W/ SIDE BRACKET	INTERIOR MULLION TYPE REQUIRED	MINIMUM SEPARATION TO GLASS (IN)
CASE I +50.0 , -43.3	36 1/2"	72 1/2"	N/A	A1	2 1/2"
CASE I +62.0 , -75.0	36 1/2"	N/A	83"	A2	2 3/8"
CASE II +62.0 , -75.0	36 1/2"	N/A	84"	A2	2 3/8"

SCHEDULE # 2

LIMITATIONS FOR SINGLE AND MULTIPLE UNITS BAHAMA SHUTTER'S UNIT WIDTH (IN), SPAN L (IN) AND CORRESPONDING MAXIMUM DESIGN PRESSURE (p.s.f.) FOR THE INSTALLATION OF SIDE & SILL BRACKETS INTO CONCRETE & MASONRY BUILDINGS BY MEANS OF (2) 1/4" Ø x 7/8" RAWL CALK-IN ANCHORS *

MAXIMUM NEGATIVE DESIGN PRESSURE RATING (p.s.f.)	SINGLE UNITS				MULTIPLE UNITS			
	SIDE & SILL BRACKETS **							
	TO CONCRETE		TO BLOCK		TO CONCRETE		TO BLOCK	
	Max. "W"	Max. "L"	Max. "W"	Max. "L"	Max. "W"	Max. "L"	Max. "W"	Max. "L"
-55.7	42"	96"	42"	96"	36 1/2"	84"	36"	84"
-65.0	42"	96"	42"	96"	36 1/2"	84"	36"	72"
-75.0	42"	96"	42"	96"	36 1/2"	83"	31"	84"
-83.0	42"	96"	42"	96"	36 1/2"	83"	36 1/2"	62"
-100.0	42"	96"	42"	63"	N/A	N/A	27"	83"
			36"	73"	N/A	N/A	N/A	N/A

* FOR ELCO PANELMATES ((2) 1/4" Ø W/ 1 7/8" PENETRATION) USED AT SILL & SIDE BRACKETS FOR INSTALLATIONS INTO WOOD. SEE SCHEDULES # 1 & # 1A FOR SHUTTER SIZE.
 ** IN ANY CASE, MAXIMUM "W" & "L" VALUES W/ CORRESPONDING DESIGN LOADS SHALL NOT EXCEED MAXIMUM VALUES INDICATED ON SCHEDULES # 1 & 1A.

SCHEDULE # 3

MAXIMUM ANCHOR SPACING AT TOP FEMALE HINGES (B), (C), OR (D) AS WELL AS SILL ANGLE (E) AT BOTTOM (AS APPLICABLE) FOR INSTALLATIONS INTO POURED CONCRETE HEADERS AND SILL ***

DESIGN PRESSURE RATING (p. s. f.)	SINGLE & MULTIPLE UNITS
	TOP & BOTTOM TO CONCRETE
ALL PRESSURES COVERED IN SCHEDULE # 1 & # 1A	9" O. C.

*** SEE SHEETS 6 & 7 OF 8 FOR ANCHOR SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE: March 03, 2000
 BY: Helmut A. Walker
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 00-0126.01

MIAMI-DADE COUNTY

2000
1/12/00

 TILIT TESTING & ENGINEERING COMPANY 6585 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33166 Phone : (305)871-1530 . Fax : (305)871-1531 WALTER A. TILIT Jr., P. E. FLORIDA Lic. # 44167	ASSA / EXTRUDED BERTHA BAHAMA SHUTTER	AS SHOWN SCALE																		
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE															
1	-	-	3	-	-															
2	-	-	4	-	-															