



MIAMI-DADE
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

EFCO Corporation
1000 County Road
Monet, MO 65708

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Series "5800 - 8" Deep Frame" Aluminum Curtain Wall System – Impact Resistant

APPROVAL DOCUMENT: Drawing No. **1048**, dated 04/20/01, with revision A3 dated 01/23/03, titled "Series 5800 Curtain Wall Impact System (8" Deep Frame)", sheets 1 through 7, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., 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.

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 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 revises NOA # **01-0525.02** and consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Manuel Perez, P.E.**



Handwritten signature

NOA No 03-0410.02
Expiration Date: February 14, 2006
Approval Date: May 29, 2003
Page 1

EFCO Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1048**, dated 04/20/01, with revision A3 dated 01/23/03, titled "Series 5800 Curtain Wall Impact System (8" Deep Frame)", sheets 1 through 7, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

1. Test reports on
 - 1) Air Infiltration Test, per SFBC, PA 202-94
 - 2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
 - 3) Water Resistance Test, per SFBC, PA 202-94
 - 4) Small Missile Impact Test per SFBC, PA 201-94
 - 5) Large Missile Impact Test per SFBC, PA 201-94
 - 6) Cyclic Wind Pressure Loading per SFBC, PA 203-94along with installation diagram of an 8" deep aluminum curtain wall system with an 5/8" thick overall **HRG2 polycarbonate** laminated glass (two 1/4" HS) for large missile test and 9/16" thick overall **Saflex PVB** laminated glass (two 1/4" HS) for small missile test; prepared by Hurricane Test Laboratory, Test Report No. **HTL-0046-0414-00, Specimen 1**, dated 4/21/00, signed and sealed by Vinu J. Abraham, P.E.
2. Test reports on
 - 1) Large Missile Impact Test, SFBC PA 201-94
 - 2) Cyclic Loading Test, per SFBC PA 203-94along with installation diagram of an 8" deep aluminum curtain wall system with an 5/8" thick overall **HRG2 polycarbonate** laminated glass (two 1/4" HS), 9/16" thick overall **Globe Amerada polycarbonate** laminated glass (two 3/16" Chem-Temp, annealed) and 9/16" thick overall **SAF-GLAS polycarbonate** laminated glass (two 1/4" HS) and prepared by Hurricane Test Laboratory, Test Report No. **HTL-0046-0414-00, Specimen 5**, dated 4/26/00, signed and sealed by Vinu J. Abraham, P.E.
3. Test reports on
 - 1) Air Infiltration Test, per SFBC, PA 202-94
 - 2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
 - 3) Water Resistance Test, per SFBC, PA 202-94
 - 4) Large Missile Impact Test per SFBC, PA 201-94
 - 5) Cyclic Wind Pressure Loading per SFBC, PA 203-94along with installation diagram of a series 300 medium stile pair of doors in an 8" deep aluminum curtain wall system frame; prepared by Hurricane Test Laboratory, Test Report No. **HTL-0046-1217-01, Elevation E**, dated 12/11/01, signed and sealed by Vinu J. Abraham, P.E.


Manuel Perez, P.E.
Product Control Examiner

NOA No 03-0410.02

Expiration Date: February 14, 2006

Approval Date: May 29, 2003

EFCO Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

3. Test reports on 1) Air Infiltration Test, per SFBC, PA 202-94
2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
3) Water Resistance Test, per SFBC, PA 202-94
4) Large Missile Impact Test per SFBC, PA 201-94
5) Cyclic Wind Pressure Loading per SFBC, PA 203-94

along with installation diagram of a series 300 medium stile pair of doors and transom, in an 8" deep aluminum curtain wall system frame with OXXO configuration; prepared by Hurricane Test Laboratory, Test Report No. **HTL-0046-0315-02, Elevation J**, dated 3/18-20/02, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS:

1. Anchor Calculations and structural analysis, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 4/20/01, signed and sealed by Warren W. Schaefer, P.E.

D. MATERIAL CERTIFICATIONS

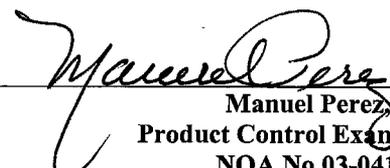
1. Notice of Acceptance No. **99-0930.01** issued to Security Impact Glass Holdings L.L.C. for "**SAF-GLAS**," dated 12/16/99, expiring on 12/16/02.
2. Notice of Acceptance No. **00-0524.06** issued to Nebula Glass International Inc. for "**Glasslam Safety-Plus Laminated Glass**," dated 9/21/00, expiring on 9/9/03.
3. Notice of Acceptance No. **00-0614.09** issued to Viracon Inc. for "**HRG-2 Laminated Glass**," dated 11/2/00, expiring on 10/16/03.
4. Notice of Acceptance No. **98-0513.03** issued to **Globe Amerada** Glass Co. for "Glass-Clad Polycarbonate," dated 9/3/98, expiring on 9/3/01.
5. Notice of Acceptance No. **98-0728.05** issued to Solutia Inc. for "**Saflex IIIIG PVB Polyvinyl butryral interlayer**," dated 8/27/98, expiring on 5/21/01.

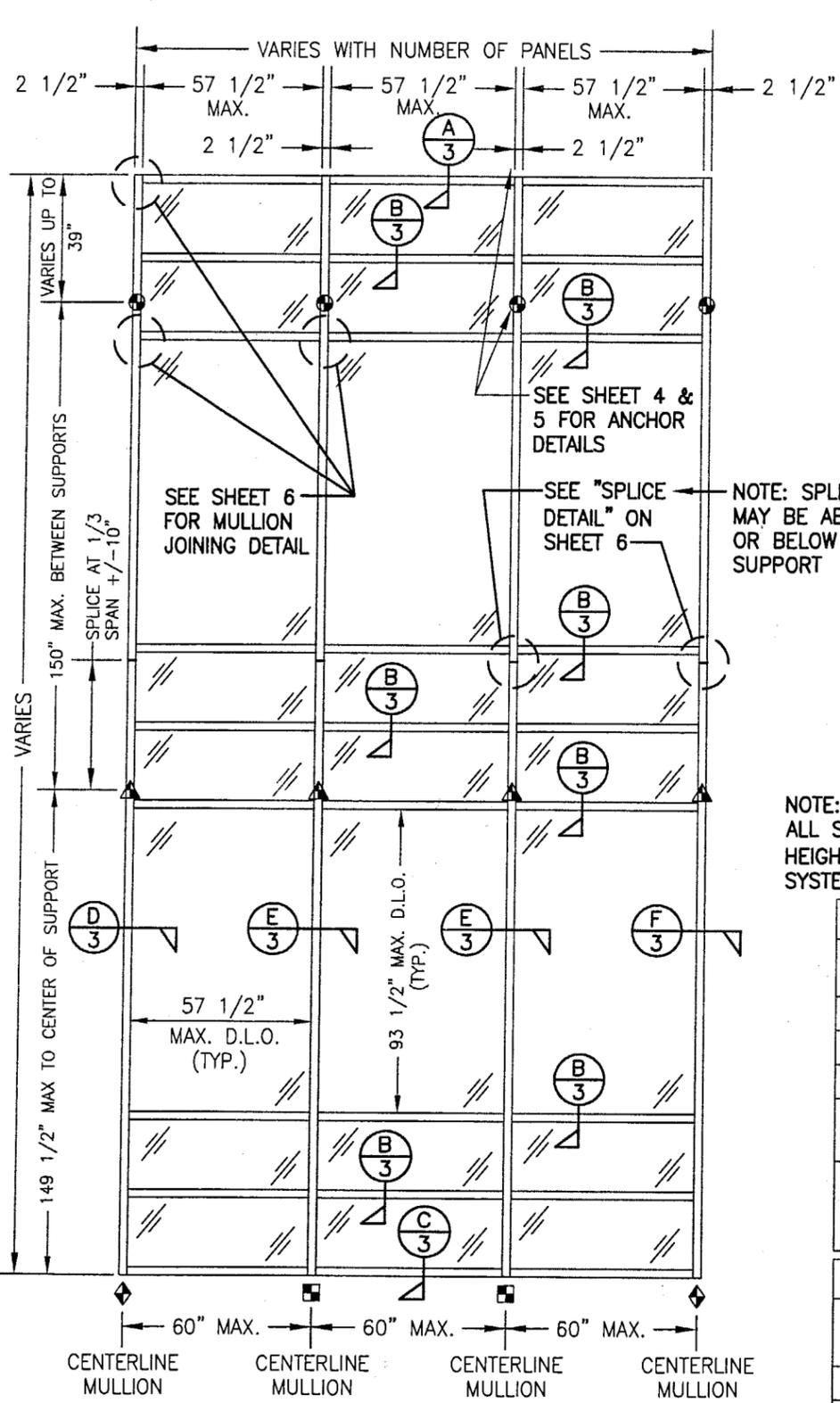
E. STATEMENTS

1. Statement letter of no financial interest, dated 4/24/01, signed and sealed by Warren W. Schaefer, P.E.
2. Laboratory compliance letter for Test Report no. **HTL-0046-0414-00**, issued by Hurricane Test Laboratory, Inc., dated 5/14/01, signed and sealed by Vinu J. Abraham, P.E.

F. OTHER

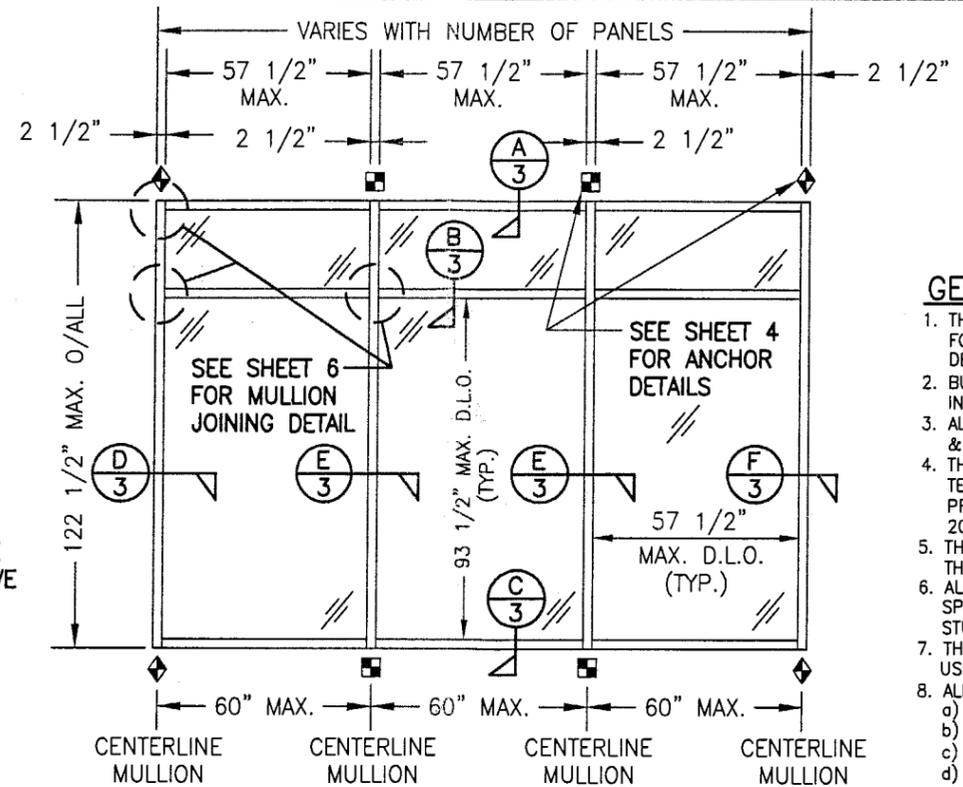
1. Notice of Acceptance No. **01-0525.02**, issued to EFCO Corporation for their Series "5800 - 8" Deep Frame" Aluminum Curtain Wall System – Impact Resistant, approved on 02/14/02 and expiring on 02/14/06.


Manuel Perez, P.E.
Product Control Examiner
NOA No 03-0410.02
Expiration Date: February 14, 2006
Approval Date: May 29, 2003



**EXTERIOR ELEVATION
CURTAIN WALL WITH MULTIPLE VERTICAL SPANS**
SCALE: 1/4"=1'-0"

NOTE: THIS ELEVATION SHOWS THE 5800 CURTAIN WALL SYSTEM IN A MULTI-STORY APPLICATION. THE NUMBER OF FLOORS WITH WHICH THIS SYSTEM MAY BE USED RANGE FROM TWO(2) TO UNLIMITED WITH THE ONLY RESTRICTIONS BEING AS SHOWN ON THE SPAN BETWEEN FLOORS/SUPPORTS AND THE D.L.O. SIZE.



**EXTERIOR ELEVATION
CURTAIN WALL WITH SINGLE VERTICAL SPAN**
SCALE: 1/4"=1'-0"

NOTE: THIS ELEVATION SHOWS THE 5800 CURTAIN WALL SYSTEM IN A SINGLE SPAN APPLICATION. ALL SINGLE SPAN APPLICATIONS ARE LIMITED BY EACH THE D.L.O. SIZES OF THE LIGHTS & THE HEIGHT/SPAN SHOWN. IF REQUIRED HEIGHT EXCEEDS THAT SHOWN IN THIS ELEVATION, THE SYSTEM MUST BE SUPPORTED AS TWO OR MORE SPANS PER THE MULTIPLE SPAN ELEVATION.

- SEE SHEET 4 → = F OR TF-ANCHOR
- SEE SHEET 4 → = M OR TM-ANCHOR
- SEE SHEET 5 → = DEAD LOAD ANCHOR
- SEE SHEET 5 → = WIND LOAD ANCHOR
- SEE SHEET 5 → = DOOR JAMB MULLION SHEAR BLOCK ANCHOR

GENERAL NOTES

1. THESE CURTAIN WALL SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLE.
2. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH DADE COUNTY PROTOCOLS PA 201, 202 & 203 FOR IMPACT REQUIREMENTS.
5. THESE CURTAIN WALL SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
6. ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
7. THERE SHALL BE NO LIMIT TO THE NUMBER OF HORIZONTAL & VERTICAL PANELS USED FOR ANY JOB PROVIDING ALL RESTRICTIONS ARE MET PER THE ELEVATIONS.
8. ALL SUBSTRATE SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS.
 - a) ALL CONCRETE SUBSTRATE SHALL BE MIN. 3000 PSI.
 - b) ALL WOOD SUBSTRATE SHALL BE MIN. G = 0.55 DENSITY.
 - c) ALL METAL STUD SUBSTRATE SHALL BE MIN. 16 GA. Fy = 50 ksi.
 - d) ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. Fy = 36 ksi.

"F", "TF", "M", "TM" & SHEAR BLOCK ANCHOR FASTENER REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	ANCHOR TO OPENING FASTENER TYPE	NO. FASTENERS PER ANCHOR INTO SUBSTRATE	MINIMUM EMBED	MINIMUM EDGE DIST.
WOOD	(1) 1/2" LAG SCREW	6 WITH F, TF, M & TM ANCHORS.	(2) 3"	1"
MIN. 16 GA. STUD	NO. 14 TEK SCREW		FULL	1/2"
STRUCT. STEEL	NO. 14 TEK SCREW	5 WITH JAMB MULLION SHEAR BLOCK ANCHOR.	FULL	1/2"
CONCRETE	3/8" HILTI QUIK BOLT II S.S. EXPANSION ANCHOR OR 3/8" S.S. RAWL POWER-BOLT		2 1/2"	2 1/2"

- (1) PREDRILL REQUIRED SIZE HOLES IN WOOD FOR PLACEMENT OF LAG SCREWS.
- (2) LAG SCREW EMBEDMENT INTO WOOD FOR JAMB MULLION SHEAR BLOCK ANCHORS MUST BE MIN. 4" (3" FOR ALL OTHER ANCHORS).

ALLOWABLE DESIGN LOADS & IMPACT RATING

GLAZING DESCRIPTION	IMPACT RATING	ALLOWABLE PRESSURE	
		POSITIVE	NEGATIVE
5/8" VIRACON HRC2 LAMINATED HT. ST. GLASS	LARGE MISSILE	90 PSF	90 PSF(2)
9/16" SOLUTIA SAFLEX PVB LAMINATED HT. ST. GLASS	SMALL MISSILE (1)	90 PSF	90 PSF(2)
9/16" GLOBE CHEM TEMP LAMINATED GLASS	LARGE MISSILE	60 PSF	60 PSF
9/16" SECURITY SAF-GLAS LAMINATED HT. ST. GLASS	LARGE MISSILE	90 PSF	90 PSF(2)
5/8" GLASSLAM SAFETY-PLUS LAMINATED HT. ST. GLASS	LARGE MISSILE	65 PSF	65 PSF

- (1) SMALL MISSILE IMPACT WINDOWS MAY NOT BE INSTALLED WITHOUT AN APPROVED SHUTTER AT A SILL ELEVATION LESS THAN 30 FT. ABOVE GRADE.
- (2) NEGATIVE PRESSURE MAY BE INCREASED FROM -90 PSF TO -100 PSF WHEN THE MULLION SPACING IS DECREASED TO 54" OR LESS.

Approved as complying with the Florida Building Code
Date May 29, 2003
NOA# 03-10416.02
Miami Dade Product Control
Division
By Warren W. Schaefer, P.E.

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
DATE: 01/23/03	DATE: 04/20/01
BY K.P.S.	DATE 01/23/03
DESCRIPTION ADDED TF & TM ANCHORS	DATE 01/23/03
NO. A1	DESCRIPTION ADDED TF & TM ANCHORS
A2	DESCRIPTION INCREASED PRESSURE FOR GLOBE GLASS FOR PROPER LOAD MULTIPLIER
A3	DESCRIPTION GLOBE GLASS FOR PROPER LOAD MULTIPLIER

DRAWING TITLE: **SERIES 5800 CURTAIN WALL IMPACT SYSTEM (8" DEEP FRAME)**

CONSULTANTS: **W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.**
600 SANDTREE DRIVE, SUITE 203B
PALM BEACH GARDENS, FL 33403
PHONE: 561-775-4902 FAX: 561-775-4903

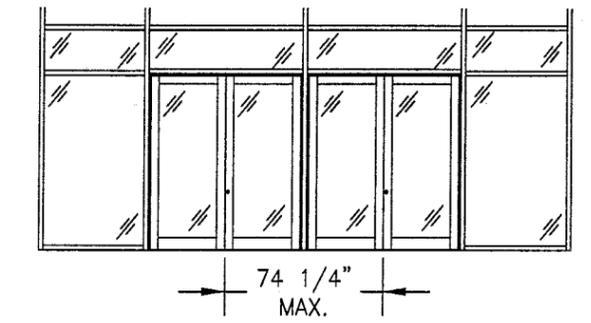
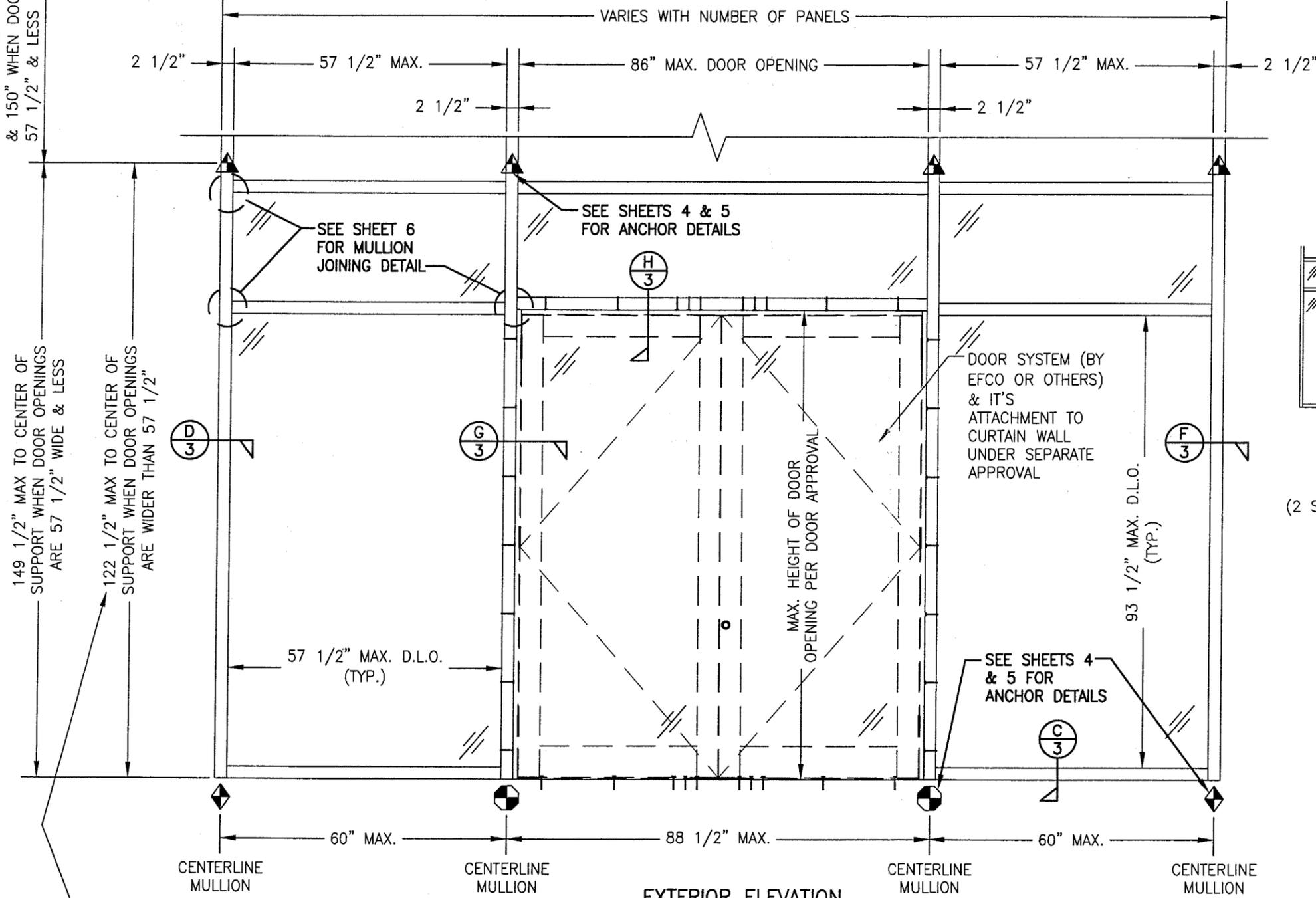
MANUFACTURER: **EFCO CORPORATION**
1000 COUNTY ROAD, P.O. BOX 609
MONETT, MO 65708-0609
800-221-4169

CERTIFICATION: **FEB 25 2003**

DRAWING NO. **1048** REV. **A**

SHEET NO. **1** OF **7**

MAX. DISTANCE BETWEEN MULTI-STORY SUPPORTS = 122 1/2" WHEN DOOR OPENINGS ARE WIDER THAN 57 1/2" & 150" WHEN DOOR OPENINGS ARE 57 1/2" & LESS



ELEVATION
NOT TO SCALE
(2 SIDE BY SIDE DOUBLE DOORS IN CURTAIN WALL)

NOTE: DOUBLE DOOR NEXT TO FIXED WINDOW CONDITION IS SHOWN. ALSO APPLICABLE IS A DOUBLE DOOR NEXT TO A DOUBLE DOOR AND SINGLE DOOR COMBINATIONS PROVIDING THE DISTANCE BETWEEN DOOR OPENING CENTERLINES IS NO GREATER THAN 74 1/4".

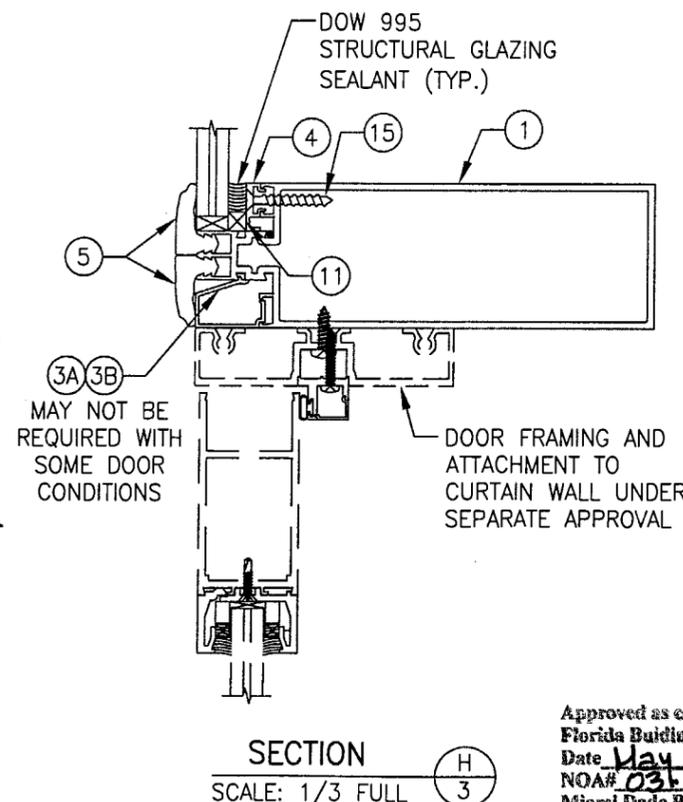
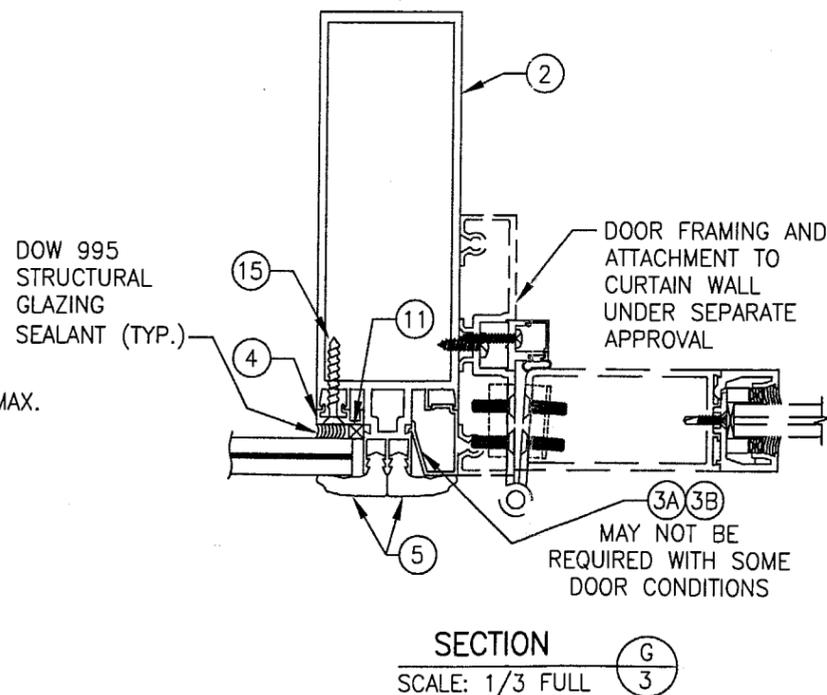
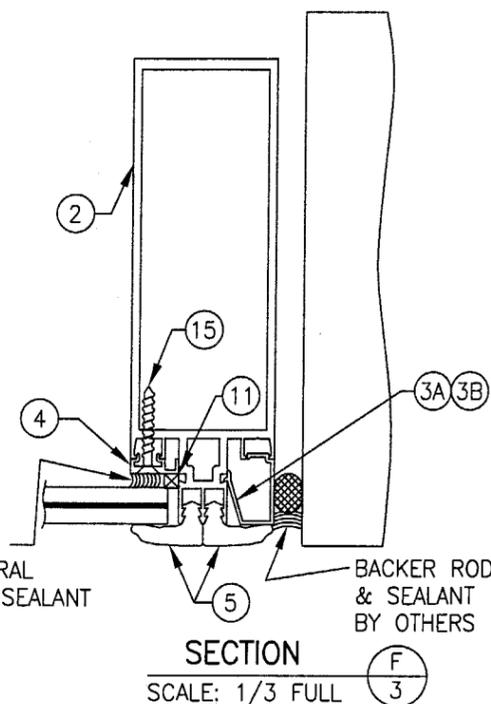
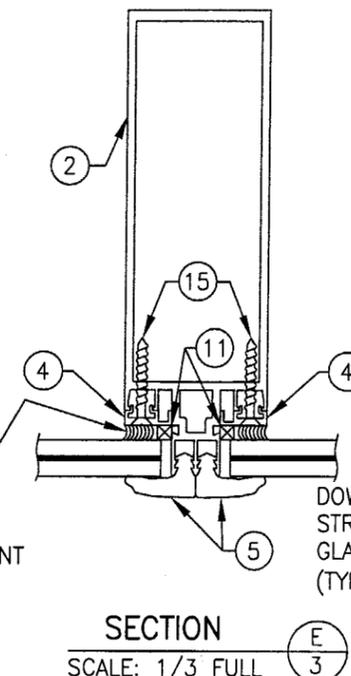
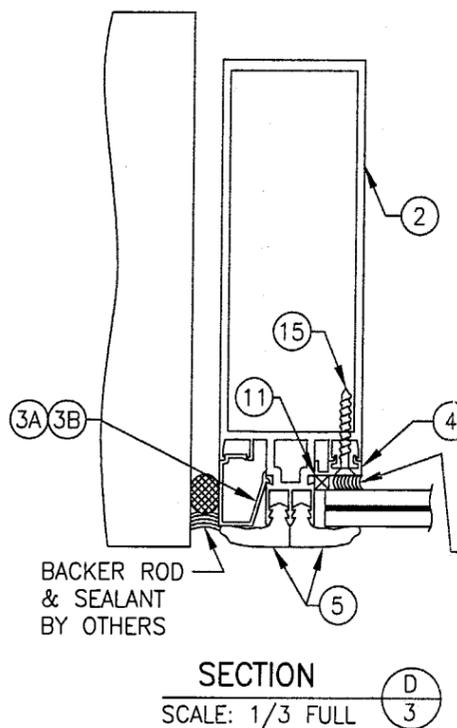
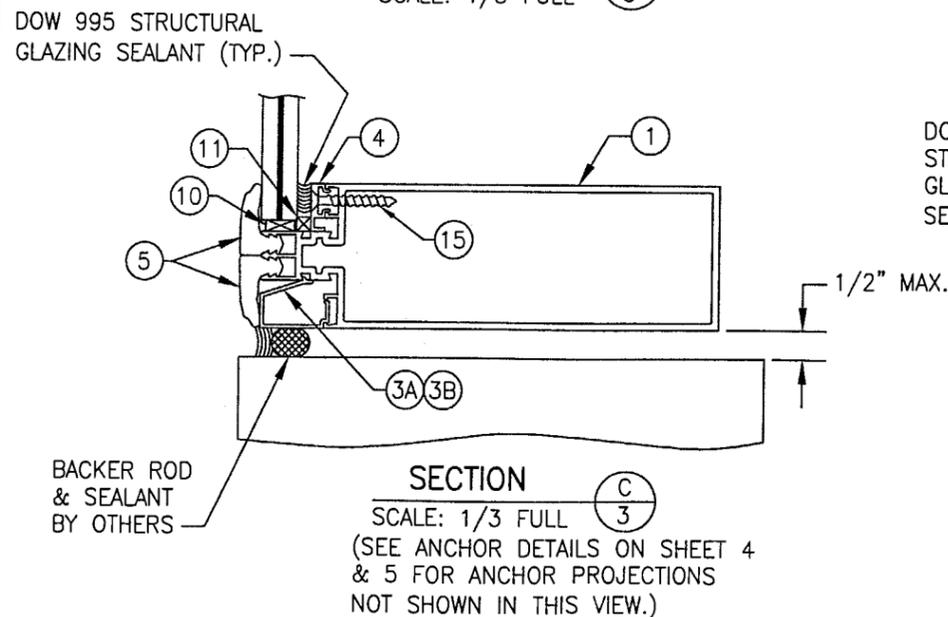
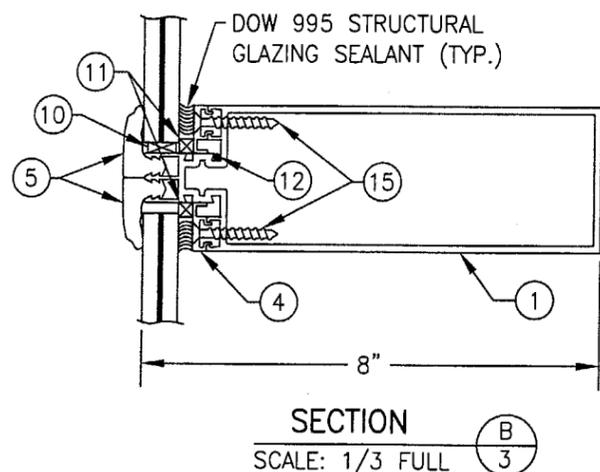
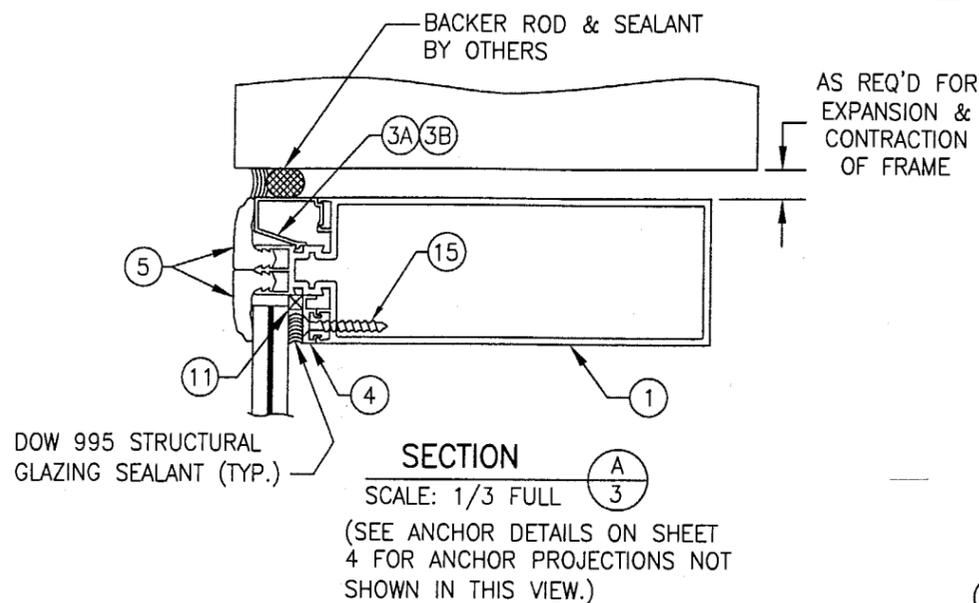
**EXTERIOR ELEVATION
CURTAIN WALL WITH DOOR**
SCALE: 1/2"=1'-0"

THIS DIMENSION ALSO APPLIES TO SINGLE VERTICAL SPAN CONDITION AS THE MAX. HEIGHT PER "SINGLE SPAN" ELEVATION ON SHEET 1.

NOTE: THIS ELEVATION SHOWS THE 5800 CURTAIN WALL SYSTEM IN A MULTI-STORY APPLICATION WITH A DOOR OPENING. DIMENSIONAL RESTRICTIONS ARE AS SHOWN IN THE ELEVATION. FOR AREA ABOVE DOOR AND FOR SINGLE SPAN MULLION CONDITION, REFERENCE OTHER SECTIONS.

Approved as complying with the Florida Building Code
Date May 29, 2003
NOA# 03-0410-02
Miami Dade Product Control
Division
By Warren W. Schaefer

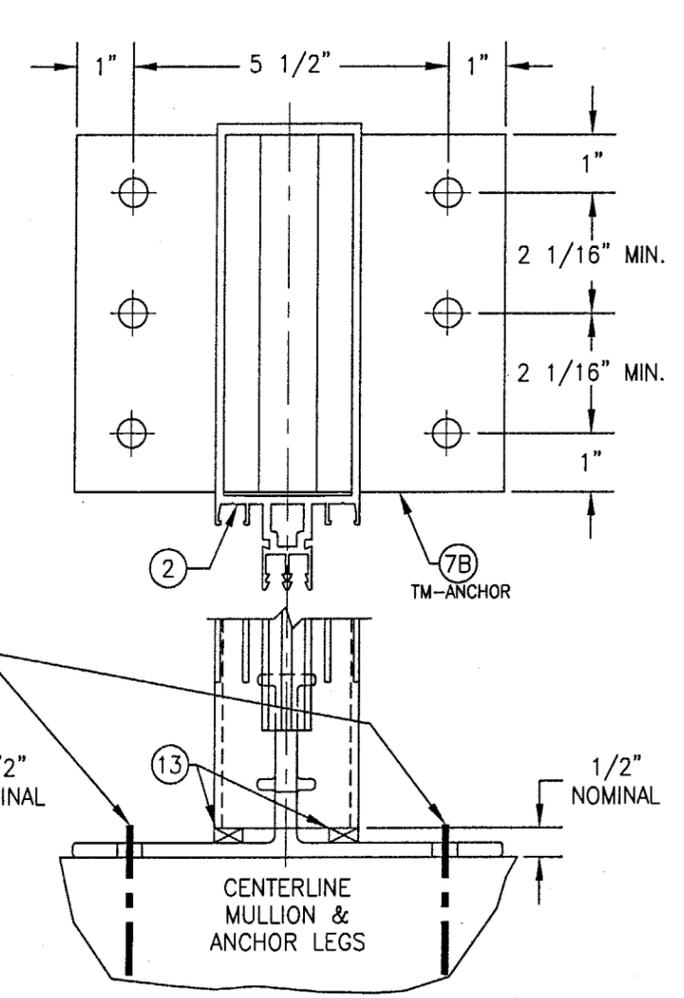
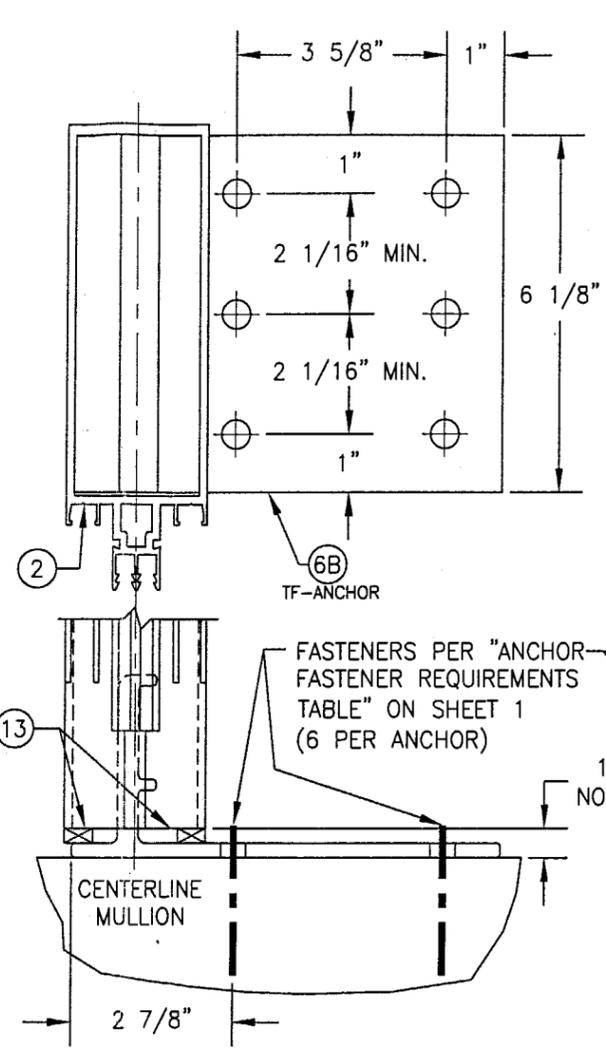
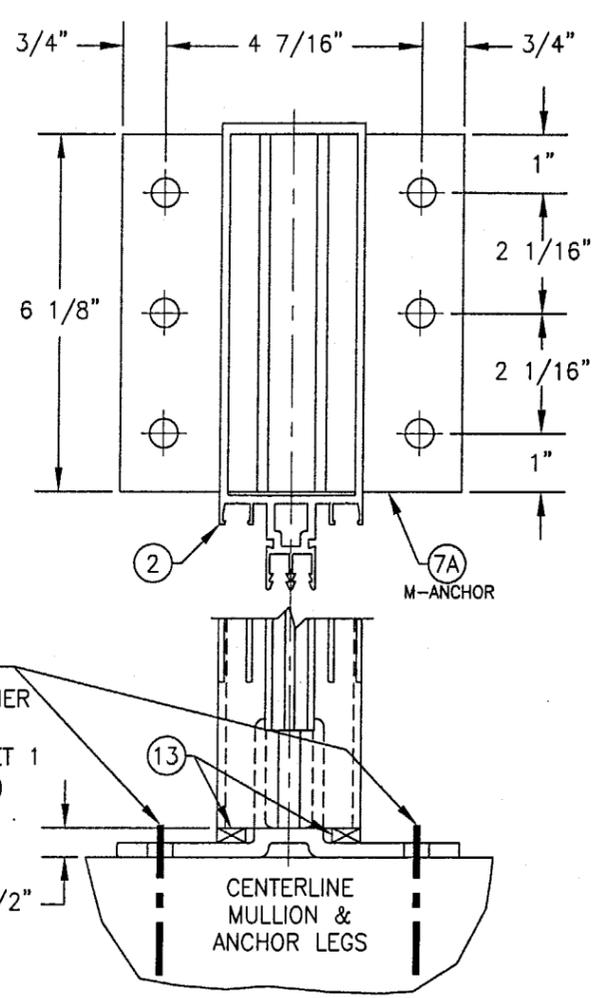
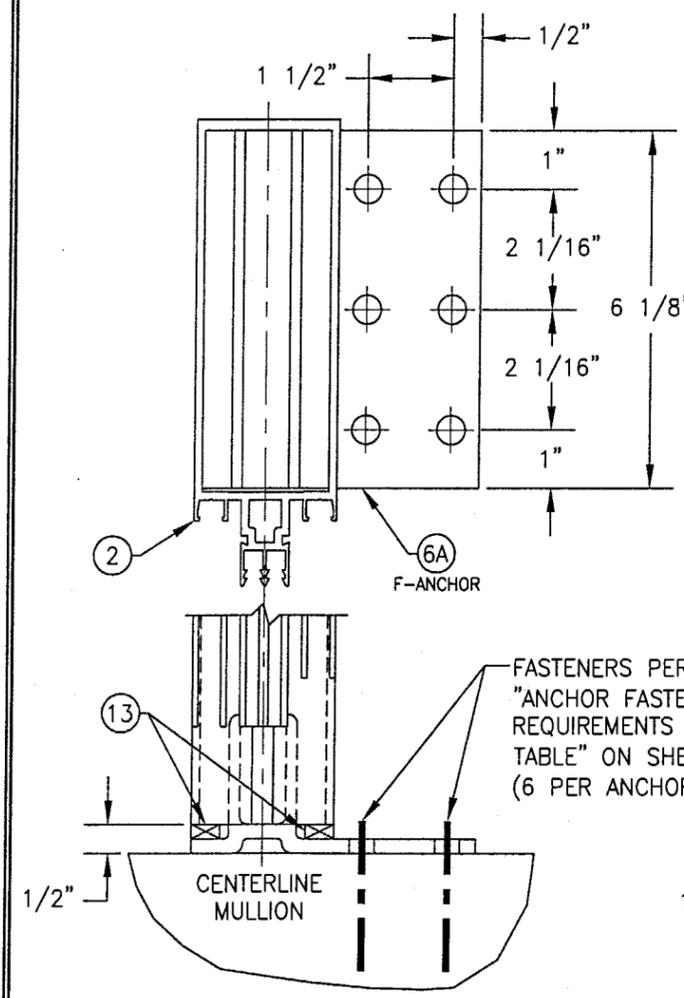
DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 04/20/01
NO.	DATE
BY	REVISION DESCRIPTION
DRAWING TITLE SERIES 5800 CURTAIN WALL IMPACT SYSTEM (8" DEEP FRAME)	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	MANUFACTURER EFCO CORPORATION 1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169
CERTIFICATION FEB 25 2003	WARREN W. SCHAEFER, P.E. PEL. NO. 44135
DRAWING NO. 1048	REV. A
SHEET NO. 2 OF 7	



Approved as complying with the Florida Building Code
Date May 29, 2003
NOA# 031-0410-02
Miami Dade Product Control Division
By: Warren W. Schaeffer

DRAWING TITLE	DRAWN BY:	CHECKED BY:
	W.W.S.	W.W.S.
CONSULTANTS	PLOT:	DATE:
	1-3	04/20/01
MANUFACTURER	DATE	
DRAWING NO.	BY	
SHEET NO.	REVISION DESCRIPTION	
CERTIFICATION	NO.	
DRAWING TITLE	SERIES 5800 CURTAIN WALL IMPACT SYSTEM (8" DEEP FRAME)	
	EFCO CORPORATION	
CONSULTANTS	1000 COUNTY ROAD; P.O. BOX 609	
	MONETT, MO 65708-0609	
DRAWING NO.	800-221-4169	
SHEET NO.	MANUFACTURER	
	EFCO CORPORATION	
DRAWING NO.	1000 COUNTY ROAD; P.O. BOX 609	
	MONETT, MO 65708-0609	
SHEET NO.	800-221-4169	
DRAWING NO.	CONSULTANTS	
	W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A.	
SHEET NO.	600 SANDTREE DRIVE; SUITE 203B	
	PALM BEACH GARDENS, FL 33403	
DRAWING NO.	PHONE: 561-775-4902 FAX: 561-775-4903	
SHEET NO.	CERTIFICATION	
	FEB 25 2003	
DRAWING NO.	WARREN W. SCHAEFFER P.E.	
	P.E. NO. 44135	
SHEET NO.	DRAWING NO.	
	1048	
DRAWING NO.	REV.	
	A	
SHEET NO.	SHEET NO.	
	3 OF 7	

DRAWN BY:	W.W.S.	CHECKED BY:	W.W.S.
PLOT:	1=3	DATE:	04/20/01
DATE			
BY			
REVISION DESCRIPTION			
NO.			



"F-ANCHOR" DETAIL 
 (TYP. AT SIDE JAMB MULLIONS)
 NOTE: GLAZING & HORIZONTAL MEMBER NOT SHOWN FOR CLARITY

"M-ANCHOR" DETAIL 
 (TYP. AT INTERMEDIATE MULLIONS)
 NOTE: GLAZING & HORIZONTAL MEMBER NOT SHOWN FOR CLARITY

"TF-ANCHOR" DETAIL 
 (TYP. AT SIDE JAMB MULLIONS)
 NOTE: GLAZING & HORIZONTAL MEMBER NOT SHOWN FOR CLARITY

"TM-ANCHOR" DETAIL 
 (TYP. AT INTERMEDIATE MULLIONS)
 NOTE: GLAZING & HORIZONTAL MEMBER NOT SHOWN FOR CLARITY

FASTENERS PER "ANCHOR FASTENER REQUIREMENTS TABLE" ON SHEET 1 (6 PER ANCHOR)

FASTENERS PER "ANCHOR FASTENER REQUIREMENTS TABLE" ON SHEET 1 (6 PER ANCHOR)

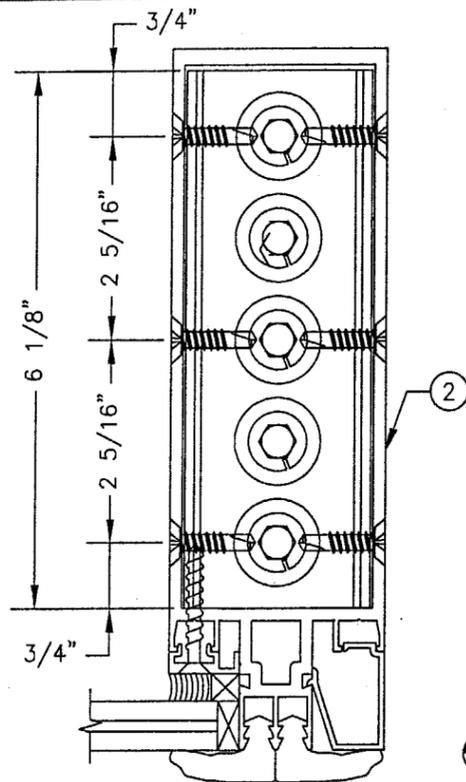
Approved as complying with the Florida Building Code
 Date May 29 2003
 NOA# 031-0410.07
 Miami Dade Product Control
 Division
 By Manuel Perez

DRAWING TITLE
SERIES 5800 CURTAIN WALL IMPACT SYSTEM (8" DEEP FRAME)

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
 600 SANDTREE DRIVE, SUITE 203B
 PALM BEACH GARDENS, FL 33403
 PHONE: 561-775-4902 FAX: 561-775-4903

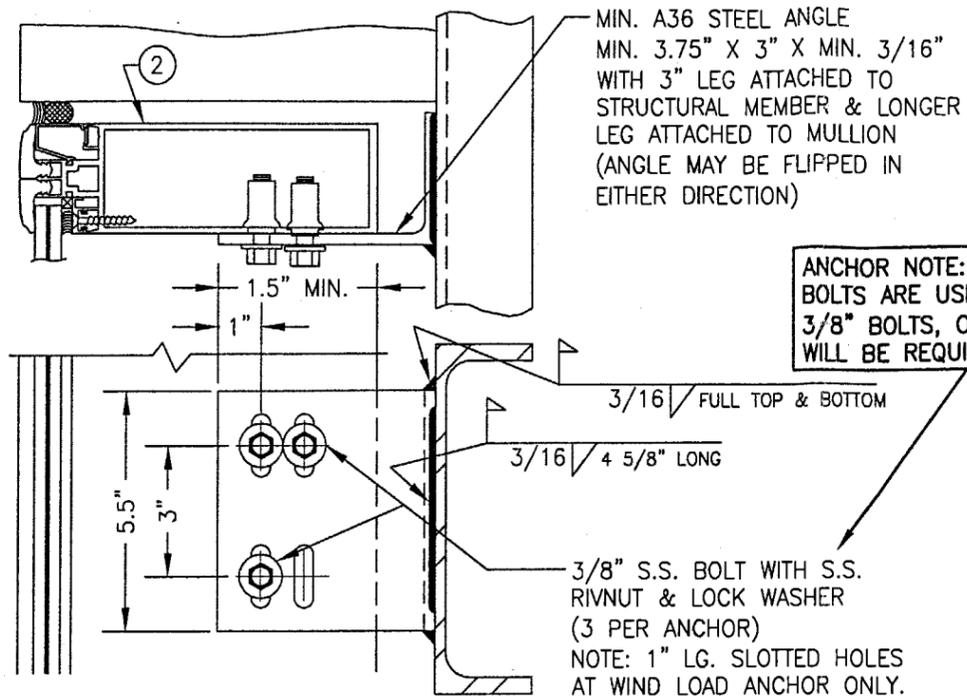
MANUFACTURER
EFCO CORPORATION
 1000 COUNTY ROAD, P.O. BOX 609
 MONETT, MO 65708-0609
 800-221-4169

CERTIFICATION	FEB 25 2003	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	1048	REV. A
SHEET NO.	4	OF 7



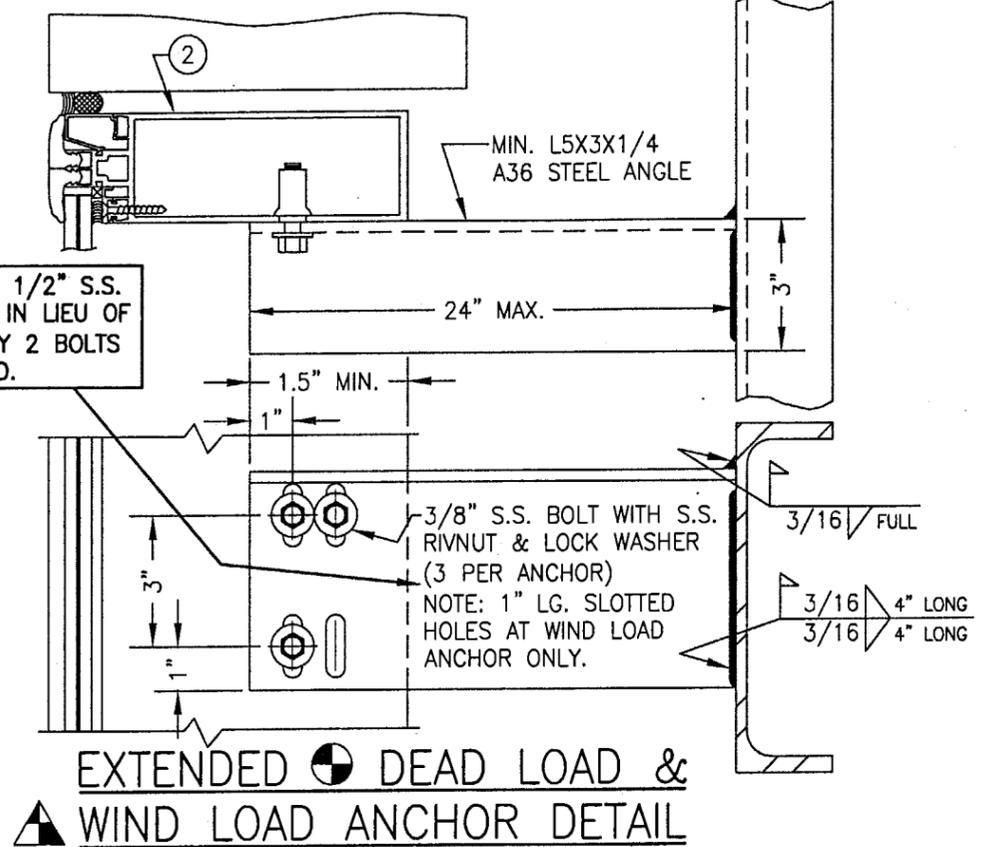
DEAD LOAD & WIND LOAD ANCHOR DETAIL
(TYP. AT JAMB MULLIONS)

(WIND LOAD ANCHOR HAS 1" LONG SLOTS FOR VERTICAL MOVEMENT)



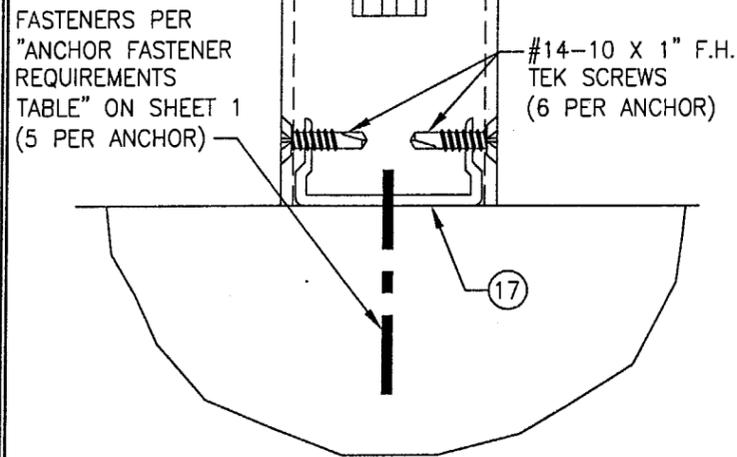
MIN. A36 STEEL ANGLE
MIN. 3.75" X 3" X MIN. 3/16"
WITH 3" LEG ATTACHED TO
STRUCTURAL MEMBER & LONGER
LEG ATTACHED TO MULLION
(ANGLE MAY BE FLIPPED IN
EITHER DIRECTION)

ANCHOR NOTE: IF 1/2" S.S.
BOLTS ARE USED IN LIEU OF
3/8" BOLTS, ONLY 2 BOLTS
WILL BE REQUIRED.

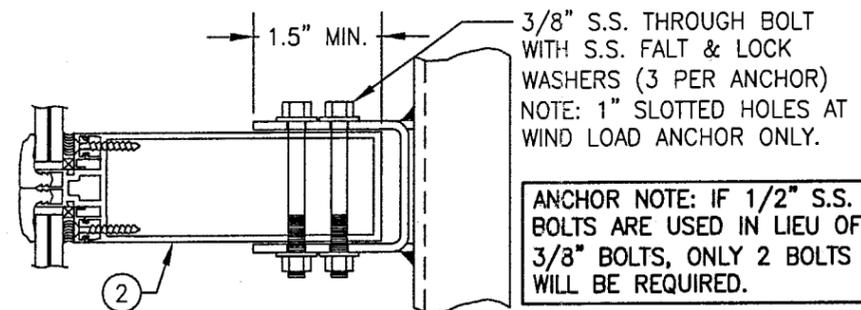


EXTENDED DEAD LOAD & WIND LOAD ANCHOR DETAIL
(TYP. AT JAMB MULLIONS)

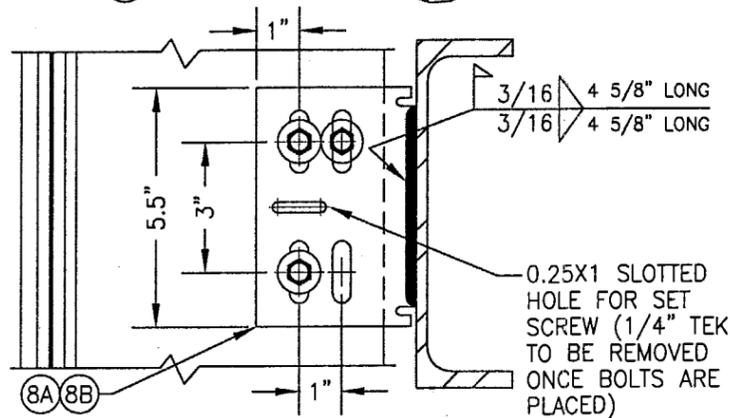
(WIND LOAD ANCHOR HAS 1" LONG SLOTS FOR VERTICAL MOVEMENT)



DOOR JAMB MULLION SHEAR BLOCK ANCHOR DETAIL



ANCHOR NOTE: IF 1/2" S.S.
BOLTS ARE USED IN LIEU OF
3/8" BOLTS, ONLY 2 BOLTS
WILL BE REQUIRED.

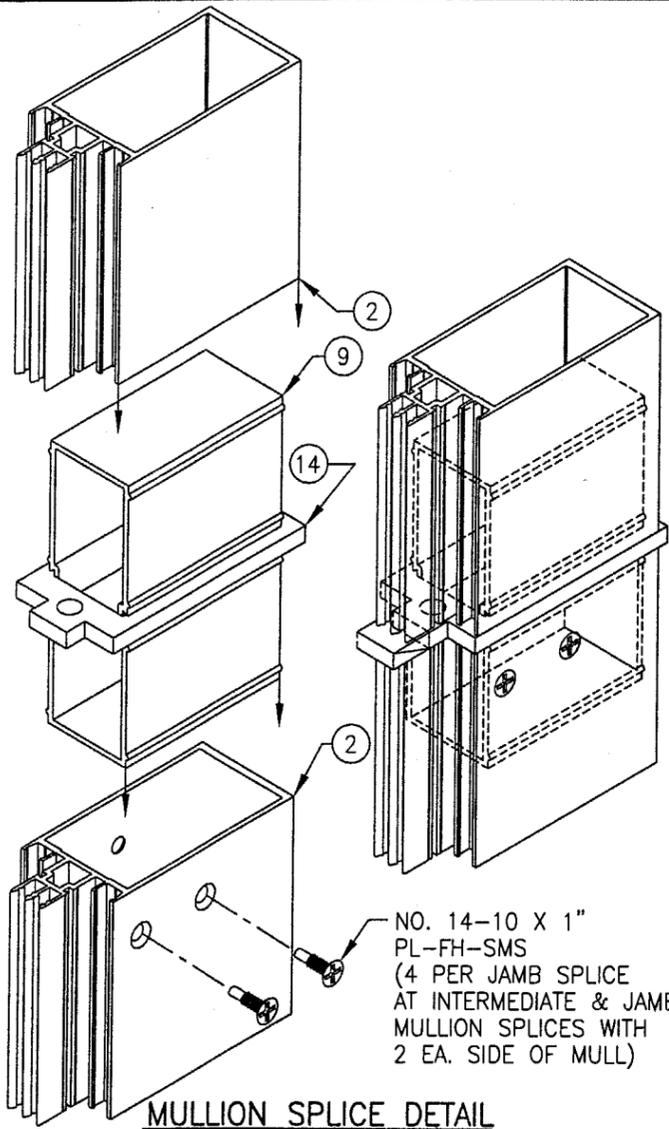


DEAD & WIND LOAD ANCHOR
DEAD LOAD & WIND LOAD ANCHOR DETAIL
(TYP. AT INTERMEDIATE MULLIONS)

(WIND LOAD ANCHOR HAS 1" LONG SLOTS FOR VERTICAL MOVEMENT)

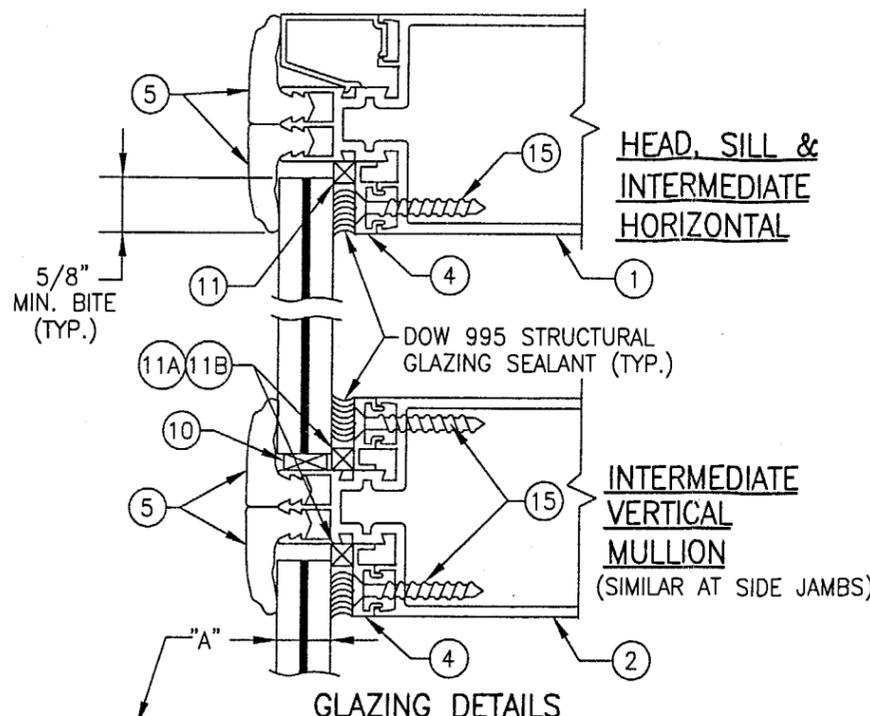
Approved as complying with the
Florida Building Code
Date May 29, 2003
NOAH 0310410.82
Miami Dade Product Control
Division
By Warren Schaefer

DRAWING TITLE	SERIES 5800 CURTAIN WALL IMPACT SYSTEM (8" DEEP FRAME)	
DRAWN BY:	W.W.S.	CHECKED BY:
PLLOT:	1-2	DATE:
DATE:		04/20/01
REVISION DESCRIPTION	BY	DATE
NO.		
MANUFACTURER	EFCO CORPORATION	
CONSULTANTS	1000 COUNTY ROAD, P.O. BOX 609	
	MONETT, MO 65708-0609	
	800-221-4169	
CERTIFICATION	FEB 25 2003	
	WARREN W. SCHAEFER, P.E.	
	P.E. NO. 44135	
DRAWING NO.	1048	REV. A
SHEET NO.	5	OF 7



NO. 14-10 X 1"
PL-FH-SMS
(4 PER JAMB SPLICE
AT INTERMEDIATE & JAMB
MULLION SPLICES WITH
2 EA. SIDE OF MULL)

MULLION SPLICE DETAIL



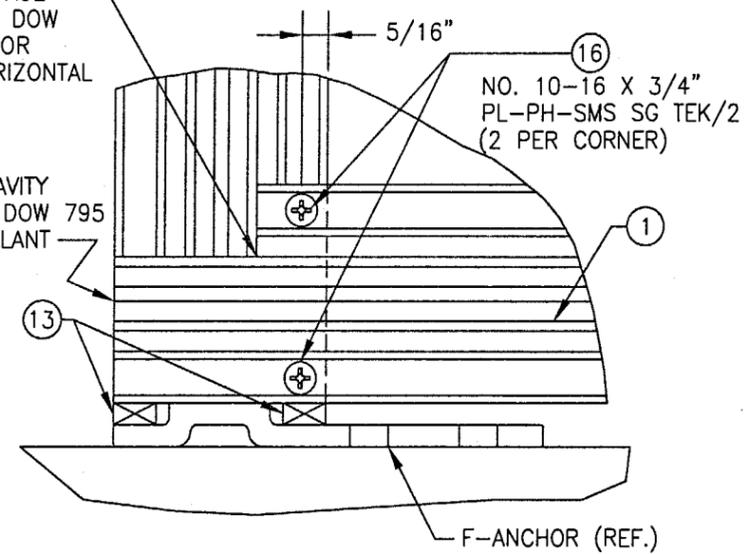
- GLAZING DETAILS**
- 1) 5/8" VIRACON HRG2: 1/4" HT. ST./0.05 URETHANE/0.08 POLYCARBONATE/0.05 URETHANE/1/4" HT. ST.
 - 2) 9/16" SAFLEX: 1/4" HT. ST./0.06 SAFLEX PVB/1/4" HT. ST. (SMALL MISSILE GLASS)
 - 3) 9/16" GLOBE AMERADA CHEM TEMP: 3/16" CHEM TEMP/0.035 URETHANE 0.118 POLYCARBONATE/0.035 URETHANE/3/16" CHEM TEMP
 - 4) 9/16" SECURITY GLASS SAF-GLAS: 1/4" HT. ST./0.011 ALIPHATIC URETHANE/0.07 POLYCARBONATE/0.011 ALIPHATIC URETHANE/1/4" HT. ST.
 - 5) 5/8" NEBULA GLASSLAM SAFETY-PLUS: 1/4" HT. ST./0.06 RESIN/0.01 PET/0.06 RESIN/1/4" HT. ST.

HEAD, SILL & INTERMEDIATE HORIZONTAL

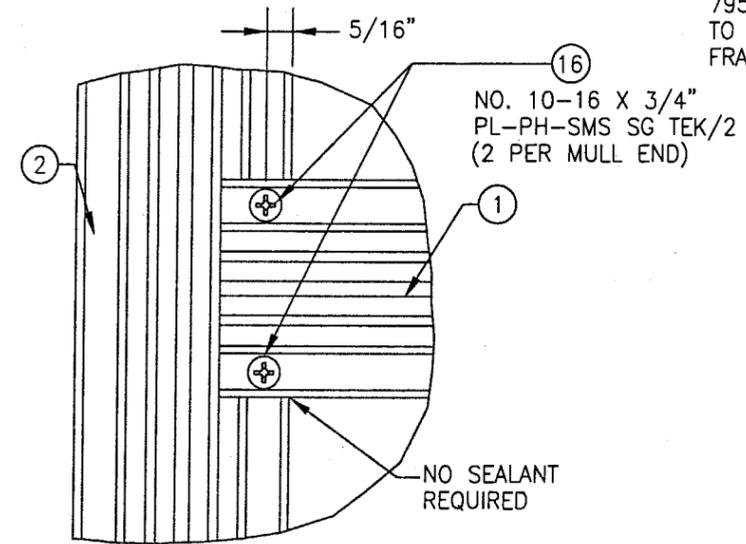
INTERMEDIATE VERTICAL MULLION
(SIMILAR AT SIDE JAMBS)

BUTTER ROUTED FACE OF MULLION WITH DOW 795 SILICONE PRIOR TO SECURING HORIZONTAL FRAME

PLUG END CAVITY & FILL WITH DOW 795 SILICONE SEALANT

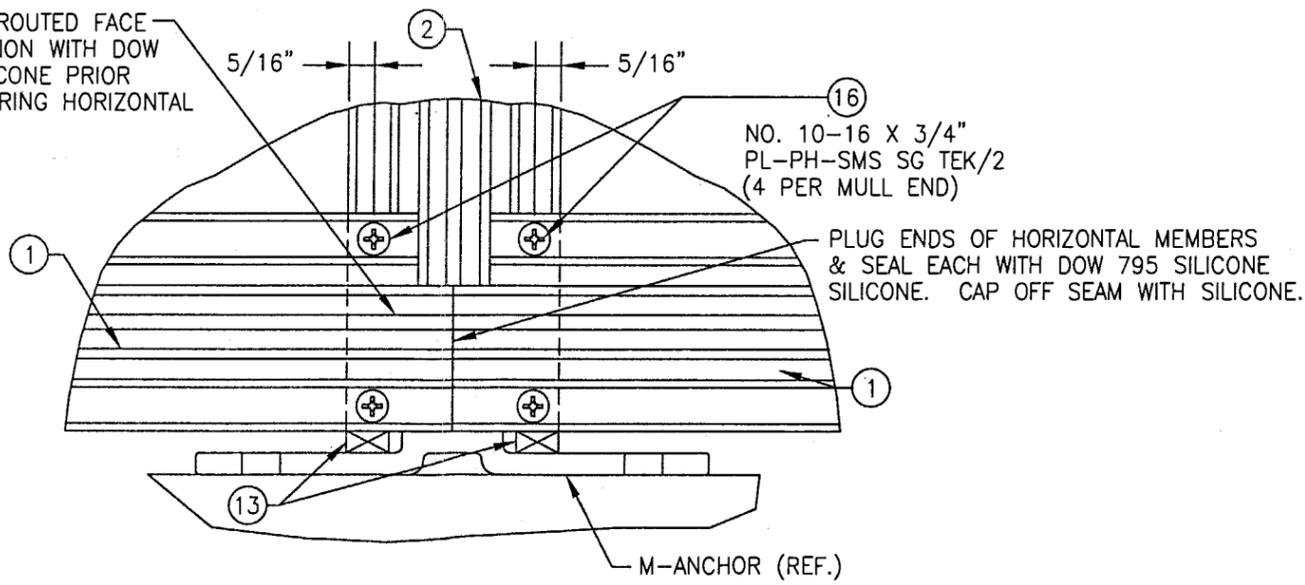


CORNER DETAIL JAMB MULLION END
(TYP. AT HEAD & SILL)



INTERSECTION DETAIL HORIZONTAL TO VERTICAL MULL

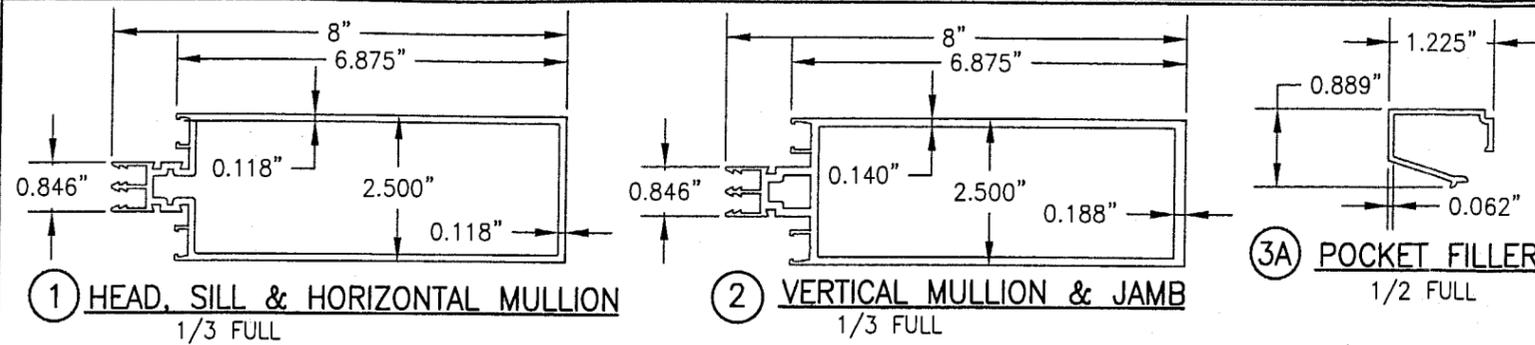
BUTTER ROUTED FACE OF MULLION WITH DOW 795 SILICONE PRIOR TO SECURING HORIZONTAL FRAMES



CORNER DETAIL INTERMEDIATE MULLION END
(TYP. AT HEAD & SILL)

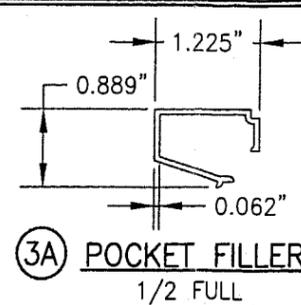
Approved as complying with the Florida Building Code
Date May 29, 2003
NOA# 031-0410-07
Miami Dade Product Control Division
By Manuel Perry

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/20/01	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE SERIES 5800 CURTAIN WALL IMPACT SYSTEM (8" DEEP FRAME)			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER EFCO CORPORATION 1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169	
CERTIFICATION FEB 25 2003 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1048		REV. A	
SHEET NO. 6 OF 7			

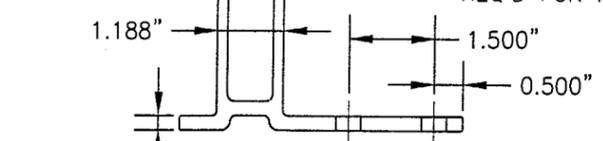
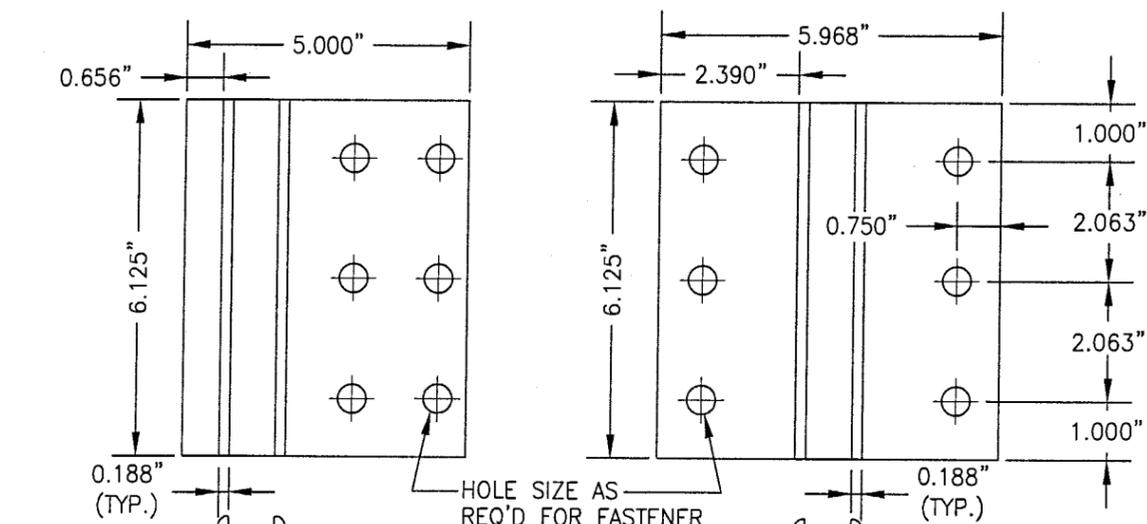


① HEAD, SILL & HORIZONTAL MULLION
1/3 FULL

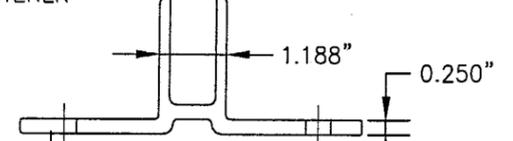
② VERTICAL MULLION & JAMB
1/3 FULL



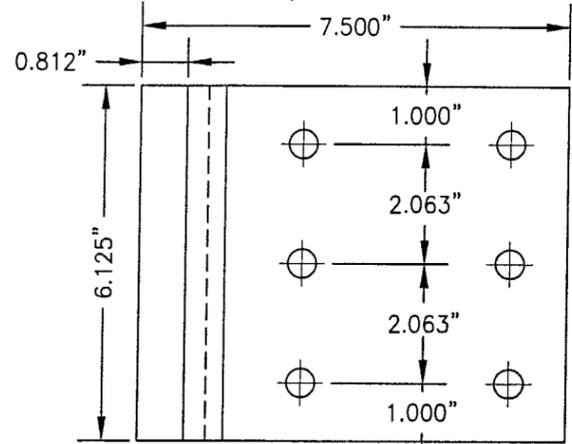
③A POCKET FILLER
1/2 FULL



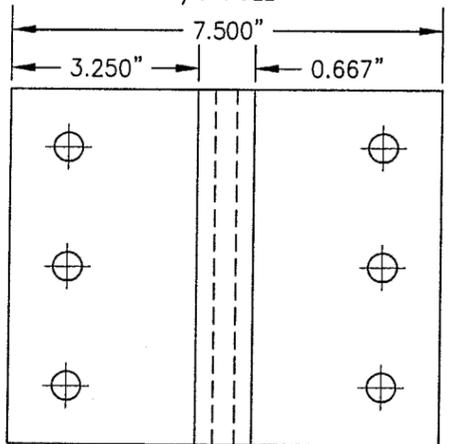
⑥A F-ANCHOR
1/3 FULL



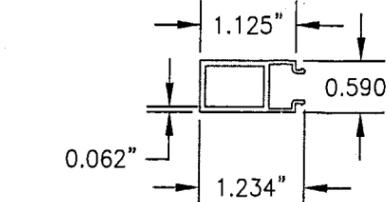
⑦A M-ANCHOR
1/3 FULL



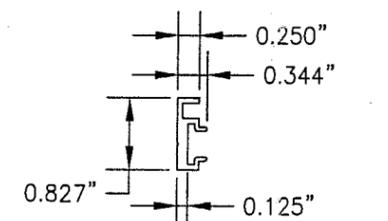
⑥B TF-ANCHOR
1/3 FULL



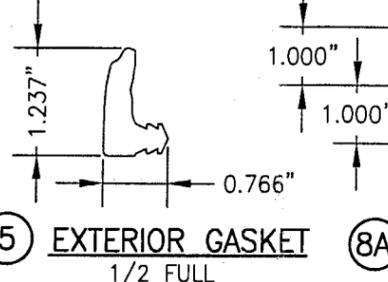
⑦B TM-ANCHOR
1/3 FULL



③B POCKET FILLER
1/2 FULL

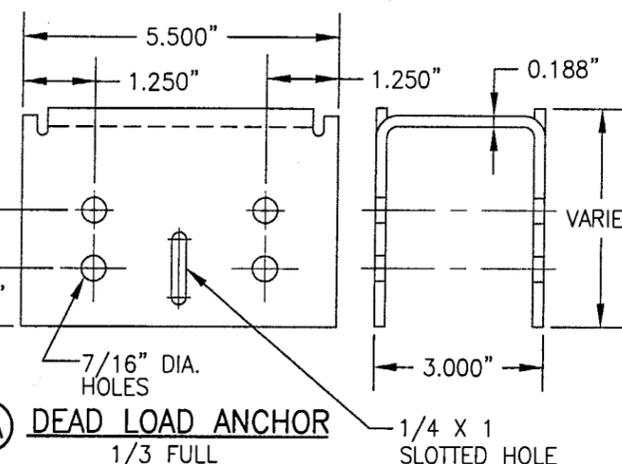


④ POCKET ADAPTER
1/2 FULL

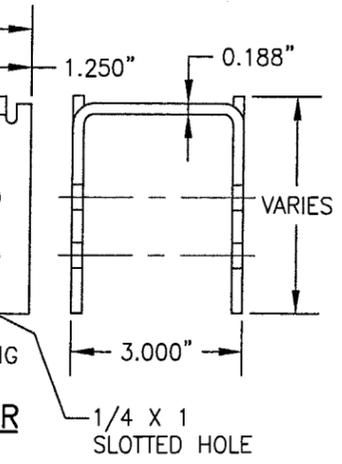


⑤ EXTERIOR GASKET
1/2 FULL

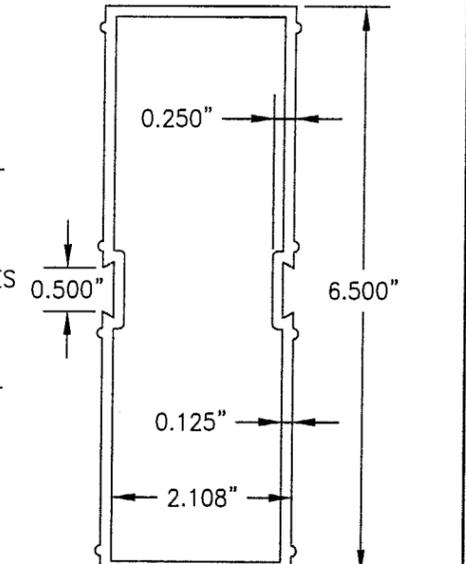
ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	5581	HEAD, SILL & HORIZONTAL MULLION	EFCO; 6063-T6 ALUMINUM
2	6137	VERTICAL MULLION & JAMB	EFCO; 6063-T6 ALUMINUM
3A	5515	POCKET FILLER	EFCO; 6063-T6 ALUMINUM
3B	3697	POCKET FILLER	EFCO; 6063-T6 ALUMINUM
4	6724	GLAZING POCKET ADAPTER	EFCO; 6063-T6 ALUMINUM
5	WG15	EXTERIOR GASKET (EXTRUDED SILICONE)	LAUREN OR JAMAK
6A	6603	F-ANCHOR	EFCO; 6063-T6 ALUMINUM
6B	3709	TF-ANCHOR	EFCO; 6063-T6 ALUMINUM
7A	6604	M-ANCHOR	EFCO; 6063-T6 ALUMINUM
7B	3708	TM-ANCHOR	EFCO; 6063-T6 ALUMINUM
8A	-	DEAD LOAD ANCHOR	EFCO; A36 MIN. STEEL
8B	-	WIND LOAD ANCHOR	EFCO; A36 MIN. STEEL
9	5531	MULLION SPLICE SLEEVE	EFCO; 6063-T6 ALUMINUM
10	HDR6	.25"X.562"X4" SILICONE SETTING BLOCK	EPG SCR-880
11A	-	1/4"X5/16" POLY FOAM TAPE	NORTON V2200 (W/ 9/16" GLASS)
11B	-	1/4"X1/4" POLY FOAM TAPE	NORTON V2200 (W/ 5/8" GLASS)
12	WDR1	CONDENSATION WICK	PHOENIX ROPE
13	HS01	POLYSTYRENE SHIM	PLYMOUTH PLASTICS
14	-	1/2" THK. MULLION SPLICE GASKET	CLOSED CELL SPUNGE NEOPRENE
15	STL3	#10-16 X 1.5" PL-FH-SMS 410 TEK	2" FROM ENDS & MAX. 6" O.C.
16	SDR1	#10-16 X .75" PL-PH-SMS SG TEK/2	CORNER SCREWS
17	7840	DOOR JAMB SHEAR BLOCK ANCHOR	6063-T6 ALUMINUM



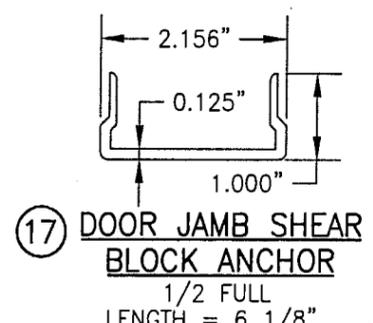
⑧A DEAD LOAD ANCHOR
1/3 FULL



⑧B WIND LOAD ANCHOR
1/3 FULL



⑨ MULLION SPLICE SLEEVE
1/2 FULL
LENGTH = 6 1/8"



⑰ DOOR JAMB SHEAR BLOCK ANCHOR
1/2 FULL
LENGTH = 6 1/8"

Approved as complying with the Florida Building Code
Date May 29, 2003
NOA# 03-10410.02
Miami Dade Product Control
Division
By [Signature]

DRAWING TITLE: SERIES 5800 CURTAIN WALL IMPACT SYSTEM (8" DEEP FRAME)

MANUFACTURER: EFCO CORPORATION
1000 COUNTY ROAD, P.O. BOX 609
MONETT, MO 65708-0609
800-221-4169

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
600 SANDTREE DRIVE, SUITE 203B
PALM BEACH GARDENS, FL 33403
PHONE: 561-775-4802 FAX: 561-775-4903

CERTIFICATION: FEB 25 2003
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWN BY: W.W.S. CHECKED BY: W.W.S.
PLOT: 1=2 DATE: 04/20/01

DRAWING NO. 1048 REV. A
SHEET NO. 7 OF 7