



BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)
BOARD AND CODE ADMINISTRATION DIVISION

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

www.miamidade.gov/building

NOTICE OF ACCEPTANCE (NOA)

Ingersoll-Rand Company
6810 Hillsdale Court
Indianapolis, IN 46250

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 BNC-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. BNC 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: Series 16 Gage Steel Storefront System – L.M.I.

APPROVAL DOCUMENT: Drawing No. 1107W, titled "F Frames Borrowed Lite Elevations" Sheets 1 through 5 of 5, prepared by manufacturer, dated 03/09/04 and last revised on 05/31/11, signed and sealed by Gordon Thomas, P. E., bearing the Miami-Dade County Product Control Revision 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 **revises and renews** NOA No. 10-0623.01 and consists of this page 1, evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J. Gascon
6/16/11

NOA No. 10-1130.01
Expiration Date: June 30, 2015
Approval Date: June 16, 2011
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **1107W**, titled "Frames Borrowed Lite Elevations" Sheets 1 through 5 of 5, prepared by manufacturer, dated 03/09/04 and last revised on 05/31/11, signed and sealed by Gordon Thomas, P. E.

B. TESTS

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

along with marked-up drawings and installation diagram of Safety-first GPX Hurricane Resistant Frame with Superlite II-XL and Intumescent gel, prepared by Architectural Testing, Inc., Test Report No. **ATI-63326.01-301-18**, dated 07/05/2006, signed and sealed by Joseph A. Reed, P. E.

(Submitted under previous NOA No.10-0623.01)

2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

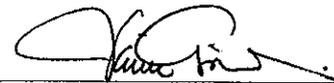
along with marked-up drawings and installation diagram of steel storefront, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3232-1**, dated 02/24/2006, signed and sealed by Gerald J. Ferrara, P.E.

(Submitted under previous NOA No.10-0623.01)

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

along with marked-up drawings and installation diagram of steel storefront, prepared by Certified Testing Laboratories, Inc. Test Report No. **CTLA-1107W**, dated June thru August 2003, signed and sealed by Ramesh C. Patel, P.E.

(Submitted under previous NOA No.04-0707.01)



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 10-1130.01
Expiration Date: June 30, 2015
Approval Date: June 16, 2011

Ingersoll-Rand Company

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C. CALCULATIONS

1. Anchor verification calculations and structural analysis, prepared by manufacturer, dated 05/25/05, signed and sealed by Gordon Thomas, P. E.
Complies with ASTM E1300-02/ 04
(Submitted under previous NOA No. 10-0623.01)

D. QUALITY ASSURANCE

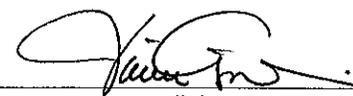
1. Miami-Dade Building and Neighborhood Compliance Department (BNC).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **10-0413.04** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/26/2010, expiring on 01/14/12.
2. Notice of Acceptance No. **08-0305.02** issued to Sabic Innovative Plastic (Former G.E. Plastic) for "Lexan sheet", expiring on 07/17/2013.
3. Test reports on: 1) ASTM E119-08 Standard Test Methods for Fire Tests of Building Construction and Materials
2) NFPA-251 (2006) Standard Methods of Tests of Fire Resistance of Building Construction and Materials
3) UL-263 (2003) Fire Tests of Building Construction and Materials
along with marked-up drawings and installation diagram of Safti First GPX/ Superlite II-XL, prepared by Intertek Testing Laboratories, Inc. Test Report No. **INTERTEK-15101**, dated 11/14/2008, signed by Michael Puls and Kent Kelsey.

F. STATEMENTS

1. Statement letter of compliance with the FBC-2007, submitted June 16, 2011, signed and sealed by Gordon Thomas, P. E.
2. Statement letter of Superlite II-XL with Intumescent gel the minimum glassbite shall be 5/8-inch, dated 12/20/2010, signed by Katarzyna J. Grzelak of Safti First.
3. Statement letter of no financial interest and conformance signed and sealed by Gordon Thomas, P. E.
(Submitted under previous NOA No. 04-0707.01)
4. Laboratory compliance letter for Test Report No. **ATI-63326.01-301-18**, issued by Architectural Testing, Inc., dated 06/30/2006, signed and sealed by Joseph A. Reed, P. E.
(Submitted under previous NOA No.10-0623.01)



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 10-1130.01
Expiration Date: June 30, 2015
Approval Date: June 16, 2011

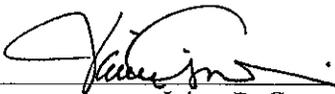
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

5. Laboratory compliance letter for Test Report No. **NCTL-210-3232-1**, issued by National Certified Testing Laboratories, Inc., dated 02/24/2006, signed and sealed by Gerald J. Ferrara, P. E.
(Submitted under previous NOA No.10-0623.01)
6. Laboratory compliance letter for Test Report No. **CTLA-1107W**, issued by Certified Testing Laboratories, Inc., dated June thru August 2003, signed and sealed by Ramesh C. Patel, P. E.
(Submitted under previous NOA No. 04-0707.01)
7. Proposal No. **05-0192R** issued by Product Control, dated November 8, 2005, signed by Ishaq Chanda, P. E.
(Submitted under previous NOA No.10-0623.01)
8. One year conditional approval, subjected to successful verification test, the final approval will be issued for the balanced of a total of 5 years, approved on 11/18/10 and expiring on 06/30/2011.
(Submitted under previous NOA No. 10-0623.01)

G. OTHERS

1. Notice of Acceptance No. **10-0623.01**, issued to Ingersoll-Rand Company for their Series "**16 Gage Steel Storefront System-L.M.I.**", approved on 11/18/10 and expiring on 06/30/11.

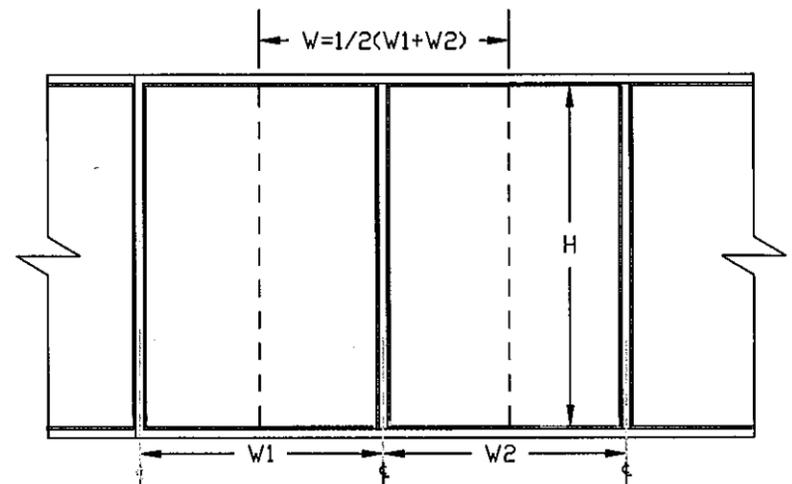


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 10-1130.01

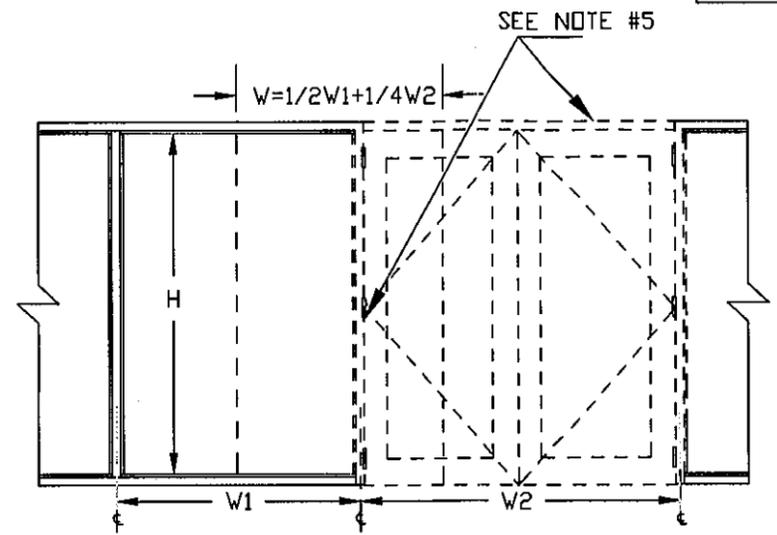
Expiration Date: June 30, 2015
Approval Date: June 16, 2011

DESIGN PRESSURE RATING APPROVED FOR WATER INFILTRATION	
POSITIVE	+60 PSF
NEGATIVE	-60 PSF

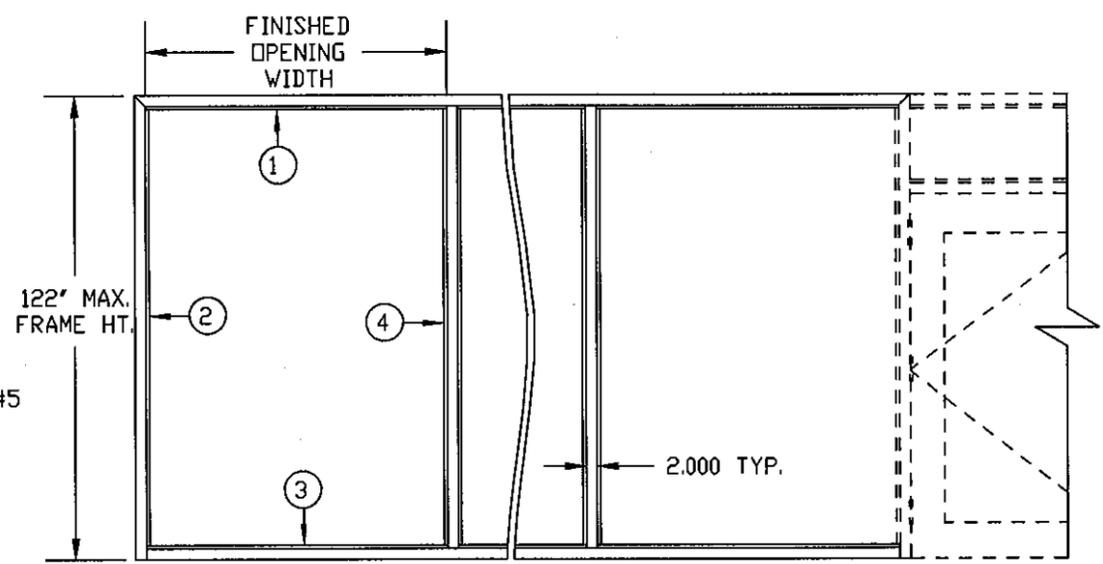
REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DRAWING	03/22/04	
B	CHANGES PER MARKED PRINT	04/23/04	
C	MODIFIED PER EC#04-305	LWG 08/27/04	
D	MODIFIED PER MD BCCD	YMF 05/02/05	
E	MODIFIED PER MD BCCD	YMF 06/02/05	
F	RENEWAL DWG	04/19/10	
G	MODIFIED PER MD BCCD	YMF 11/18/10	
H	MODIFIED PER MD BCCD	YMF 05/31/11	



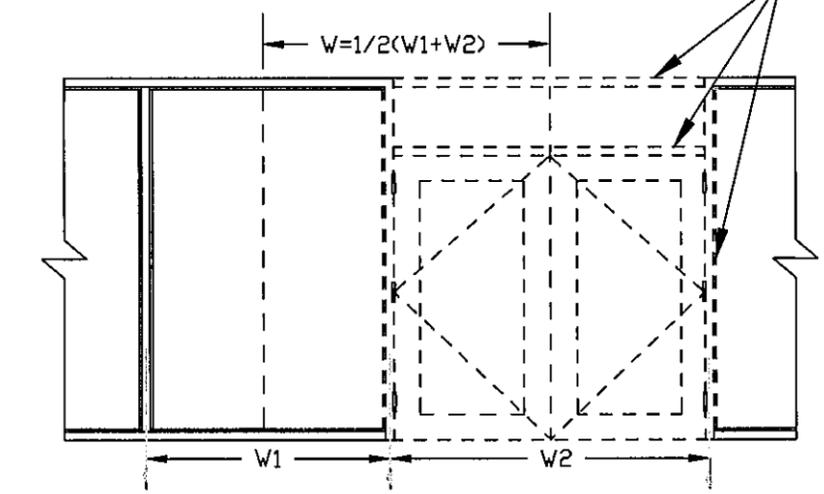
CASE 1: $W=1/2(W1+W2)$



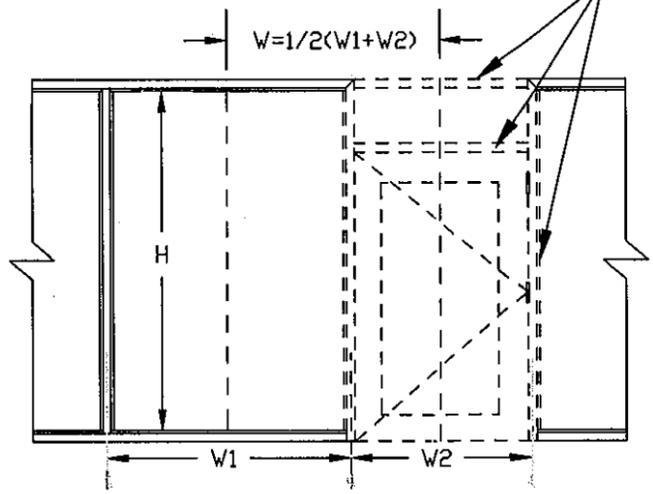
CASE 2: $W=1/2W1+1/4W2$



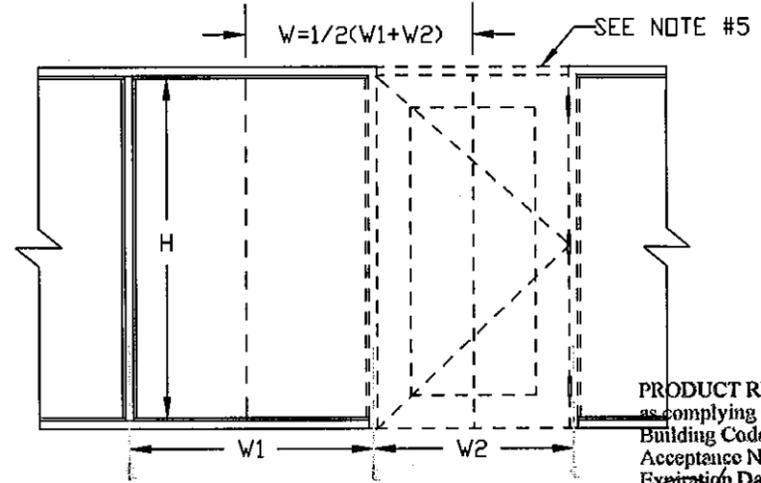
SCALE 0.032



CASE 3: $W=1/2(W1+W2)$



CASE 4: $W=1/2(W1+W2)$



CASE 5: $W=1/2(W1+W2)$

NOTES:

- 1- STEELCRAFT BORROWED LITE SYSTEM IS RATED FOR LARGE MISSILE IMPACT, DESIGN PRESSURE & WATER INFILTRATION (SEE SHEET 4, DETAIL "B")
- 2- SEE SHT #2 FOR ANCHORING SYSTEM AND FASTENER REQUIREMENTS.
- 3- SEE SHT #5 FOR FRAME SECTIONS, CORNER CONNECTIONS
- 4- THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI-DADE COUNTY APPROVED ENTRANCE DOORS BY INGERSOLL-RAND.
- 5- DOORS, HINGE & STRIKE MULLIONS ARE PER SEPARATE INGERSOLL-RAND NDA:

FRAME SIZE AND MULLION CAPACITY LIMITATIONS
 GEOMETRICAL FRAME DIMENSIONS ARE LIMITED BY MULLION CAPACITY AND MUST SATISFY THE FOLLOWING CONDITIONS: & BEAD DETAILS.

(H x W) 4600 SQ. IN. MAX. DLO
 W MAX. = 58"
 H MAX. = 122"

(SEE CASE 1 THRU 5 ON THIS SHT.)
 H= MULLION HT. W= LOAD AREA WIDTH, W1 & W2= SPACING BETWEEN MULLIONS
 MAXIMUM DLO (HEIGHT) = H MAX. - 1.25'
 MAXIMUM DLO (WIDTH) = W MAX. - 3.25'

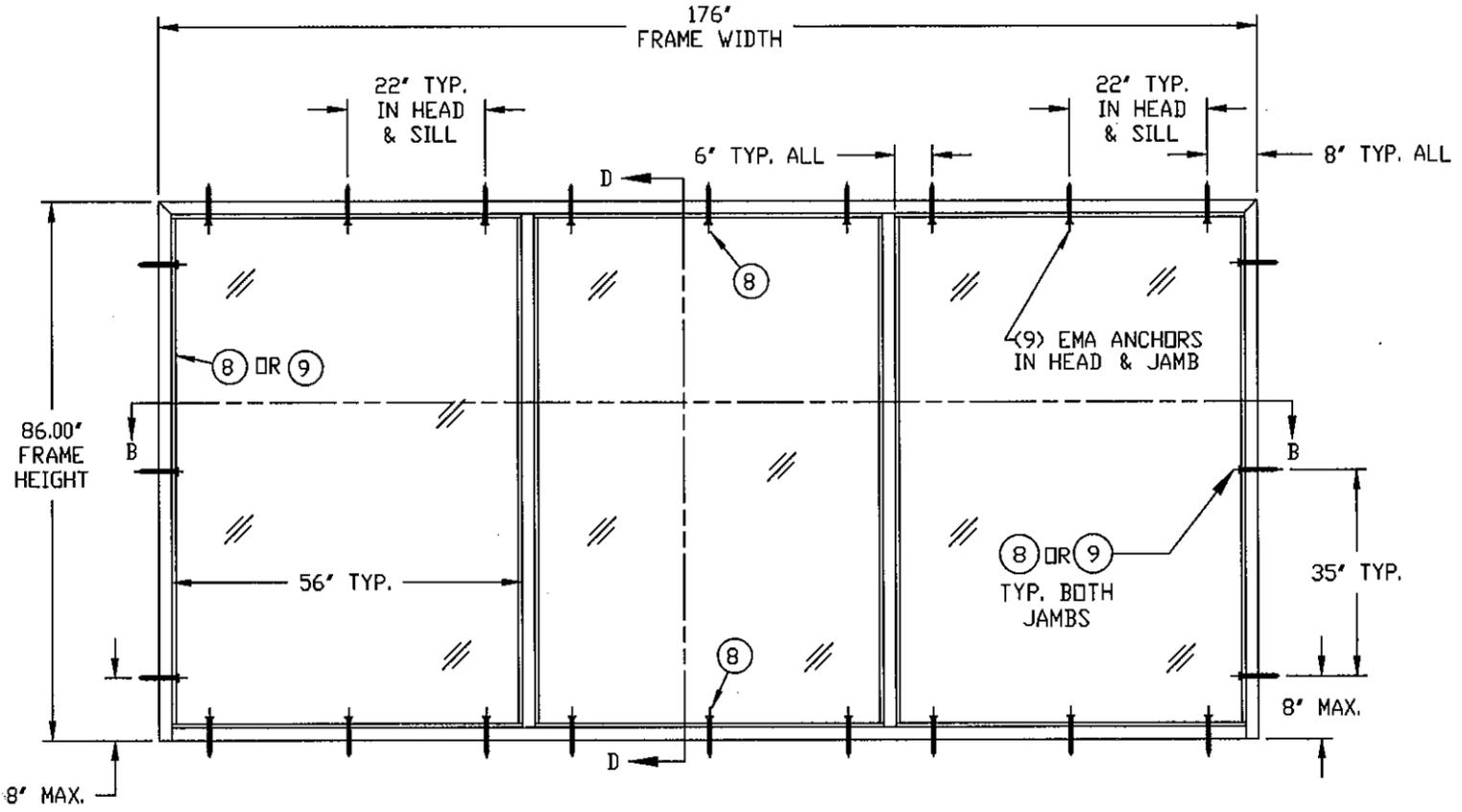
Gordon Thomas
 Gordon Thomas, P.E.
 3759 Blossom Court
 Mason, OH 45040
 Florida # 46718
 Date: 6/5/11

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 10-1139-01
 Expiration Date 06/30/2015
 By: *[Signature]*
 Miami Dade Product Control

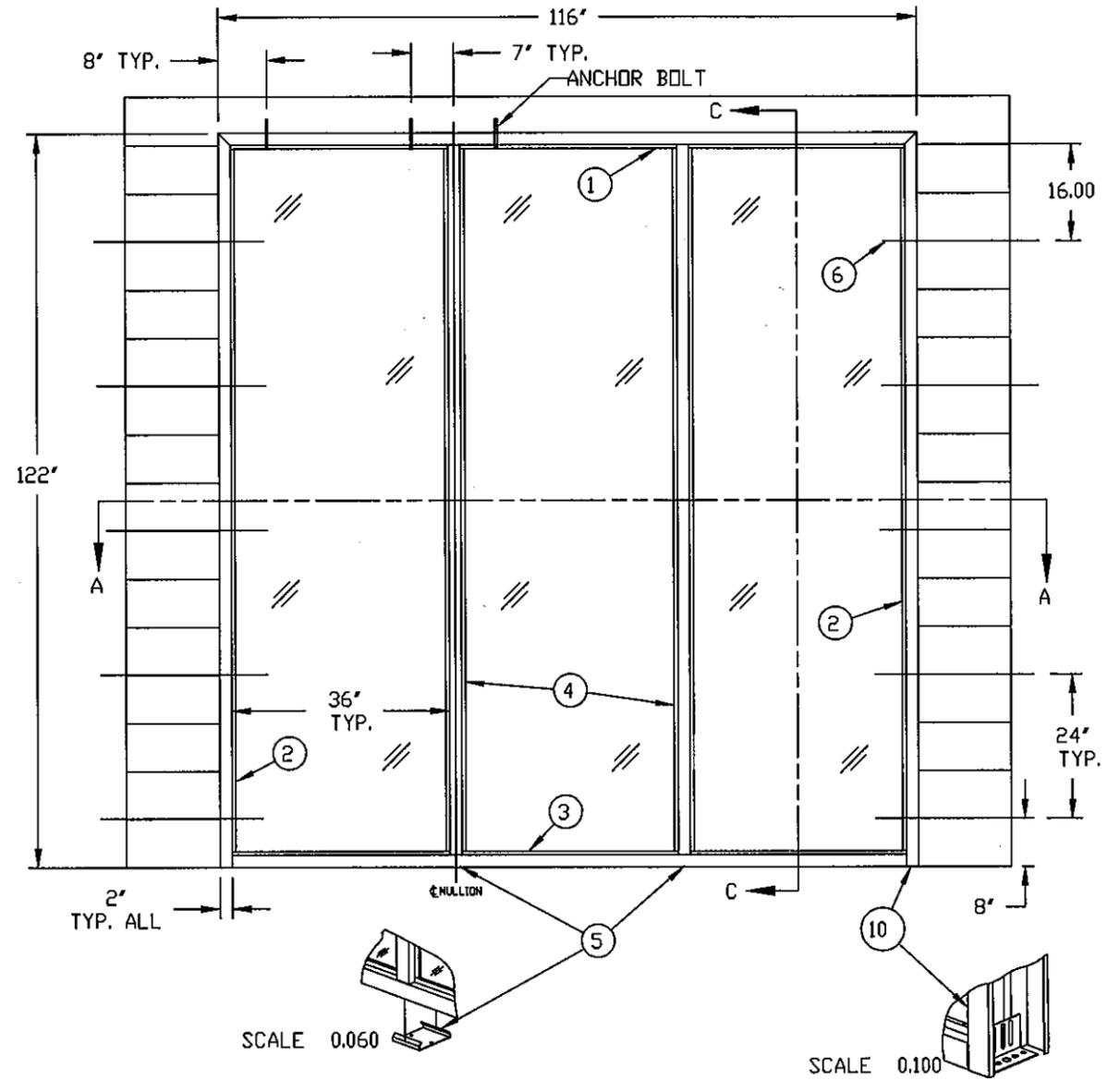
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THIRD ANGLE PROJECTION			
DRAWN LWG	DATE 03/09/04	TITLE MIAMI-DADE COUNTY APPROVED F FRAMES BORROWED LITE ELEVATIONS	
CHECKED YMF		SIZE B	FLAT N/A
APPROVED M. COLLINS		DWG NO. 1107W	REV H
ENG. APPVL		SCALE: 0.025 Pro/Engineer	SHEET 1 OF 5

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DRAWING	03/22/04	
B	CHANGES PER MARKED PRINT	04/23/04	
C	MODIFIED PER EC#04-305 LWG	08/27/04	
D	MODIFIED PER DC BCCD	06/02/05	
E	RENEWAL DWG	01/21/10	
F	RENEWAL DWG	04/19/10	
G	REVISION DWG	11/18/10	



DESIGN PRESSURE RATING APPROVED FOR WATER INFILTRATION	
POSITIVE	+60 PSF
NEGATIVE	-60 PSF



MATERIAL LIST			
ITEM	DESCRIPTION	MATERIAL & SIZE	REMARKS
1	HEAD SECTION	.053" MIN. STL. 5.75' JAMB DEPTH	ASTM A366
2	SIDE JAMB	.053" MIN. STL. 5.75' JAMB DEPTH	ASTM A366
3	SILL SECTION	.053" MIN. STL. 5.75' JAMB DEPTH	ASTM A366
4	CLOSED SECTION VERT. MULLION	.053" MIN. STL. 5.75' JAMB DEPTH	ASTM A366
5	SILL BASE ANCHOR	.053" MIN. STL. 5.75' JAMB DEPTH	SEE THIS SHT FOR SPACING AND FASTENER TYPES
6	MASONRY WIRE ANCHOR	Ø.187 BASIC WIRE 5.19" x 9.56"	
7	MASONRY T-ANCHOR	.044" MIN. STL. 5.75' JAMB DEPTH	
8	EMA ANCHOR	.044" MIN. STL. 5.75' JAMB DEPTH	
9	UNIVERSAL ANCHOR	.044" MIN. STL. 5.75' JAMB DEPTH	
10	BASE ANCHOR	.044" MIN. STL. 5.75' JAMB DEPTH	

FASTENER LIST			
WALL CONDITION	ANCHOR TYPE	FASTENER TYPE & SIZE	QTY PER ANCHOR
WOOD STUD	WOOD STUD LOCK-IN OR WELD-IN	#8 x 1.75'	4
	EXISTING MASONRY LOCK-IN OR WELD-IN	.375" x 5' LAG BOLT	1
STEEL STUD	STEEL STUD LOCK-IN OR WELD-IN	#12 SMS	2
	NEW MASONRY WIRE OR T-ANCHOR	-	-
EXISTING MASONRY (EMA)	EXISTING MASONRY LOCK-IN OR WELD-IN	.375" x 5' ANCHOR BOLT	1

[Signature]
 Gordon Thomas, P.E.
 3759 Blossom Court
 Mason, OH 45040
 Florida # 46718
 Date 6/5/11

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 10-1130-01
 Expiration Date 06/30/2016
 By *[Signature]*
 Miami Dade Product Control

BEND RADIUS N/A

THIRD ANGLE PROJECTION

DRAWN LWG DATE 03/09/04

CHECKED YMF

APPROVED M. COLLINS

ENG. APPVL

INGERSOLL-RAND COMPANY
 STEELCRAFT MFG.
 9017 BlueAsh Rd. Cincinnati Ohio 452 42

TITLE MIAMI-DADE COUNTY APPROVED F FRAMES

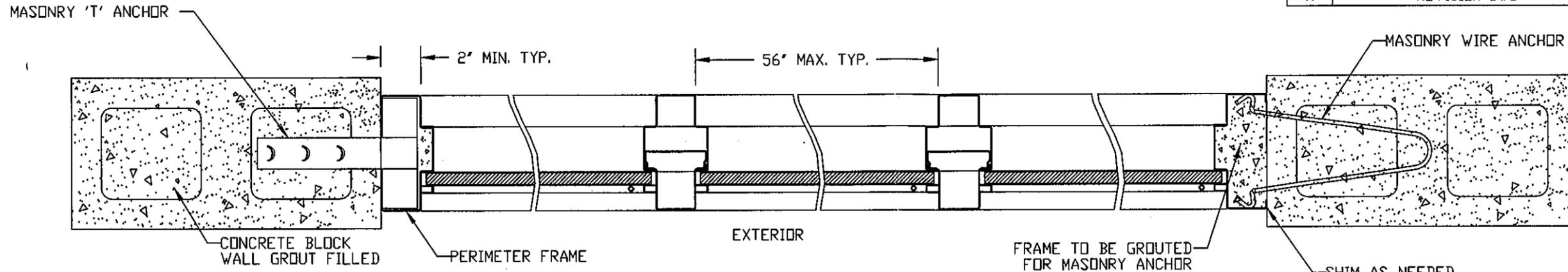
BORROWED LITE ELEVATIONS

SIZE B FLAT N/A DWG NO. 1107W OF TEST REV G

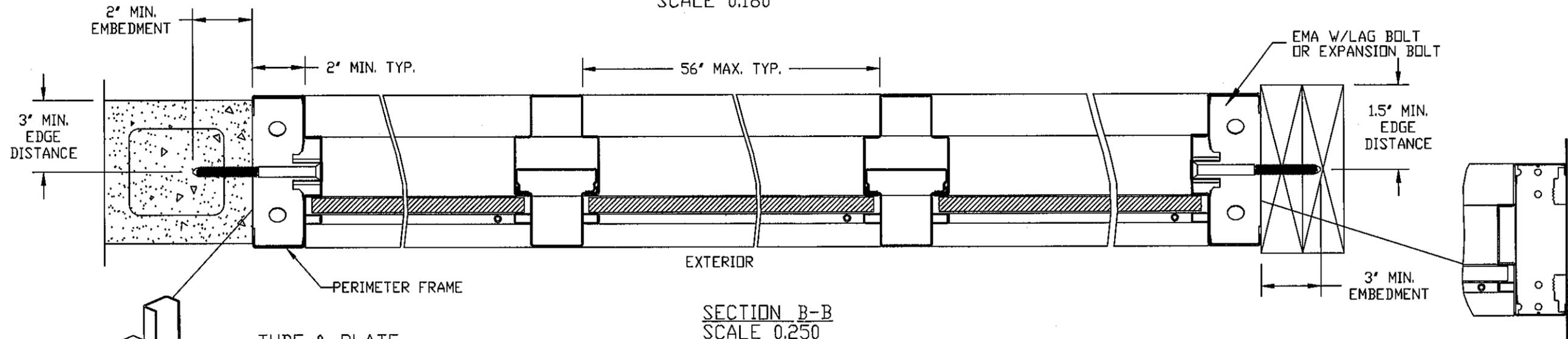
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REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DRAWING	03/22/04	
B	CHANGES PER MARKED PRINT	04/23/04	
C	MODIFIED PER EC#04-305 LWG	08/27/04	
D	MODIFIED PER DC BCCD	06/02/05	
E	RENEWAL DWG	01/21/10	
F	RENEWAL DWG	04/19/10	
G	REVISION DWG	11/22/10	
H	REVISION DWG	05/31/11	



SECTION A-A
SCALE 0.180



SECTION B-B
SCALE 0.250

UNIVERSAL ANCHOR
WOOD STUD APPLICATION
SCALE 0.250

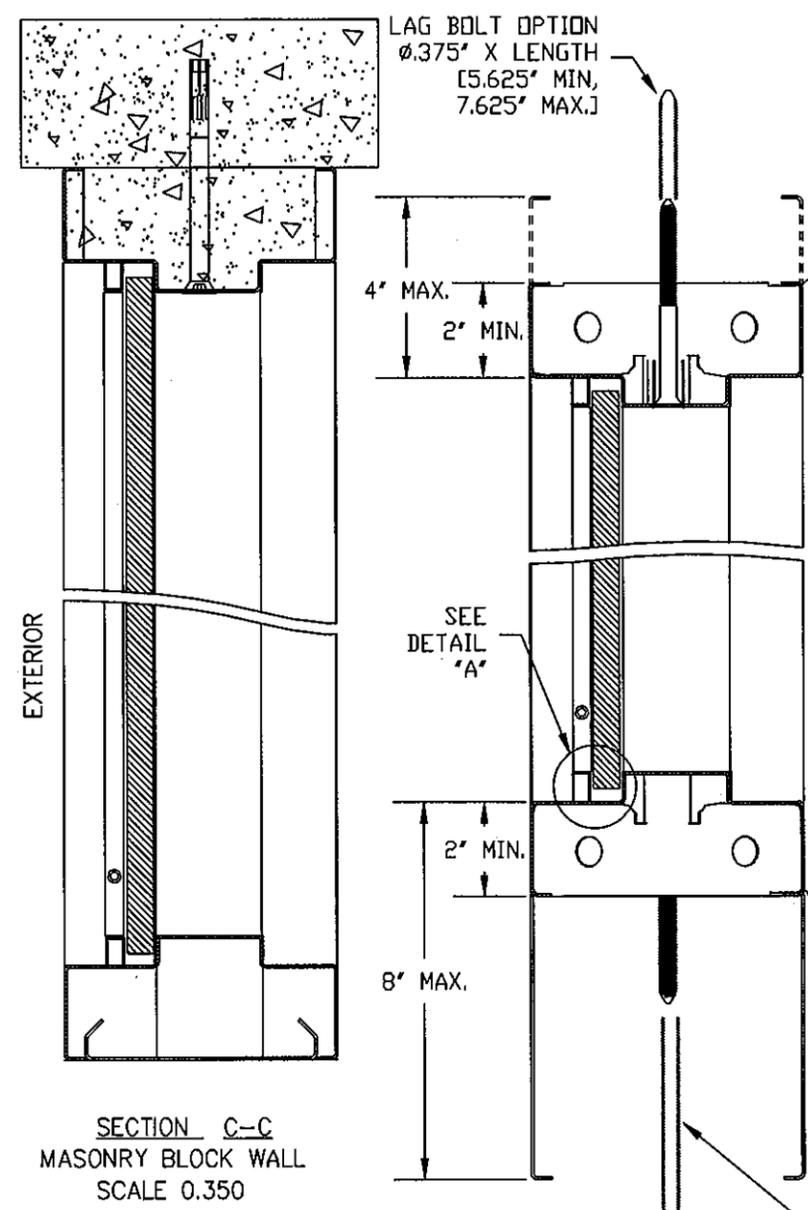
Gordon Thomas
Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida # 46718
Date *6/5/14*

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. *10-1130-01*
Expiration Date *06/30/2015*
By *[Signature]*
Miami Dade Product Control

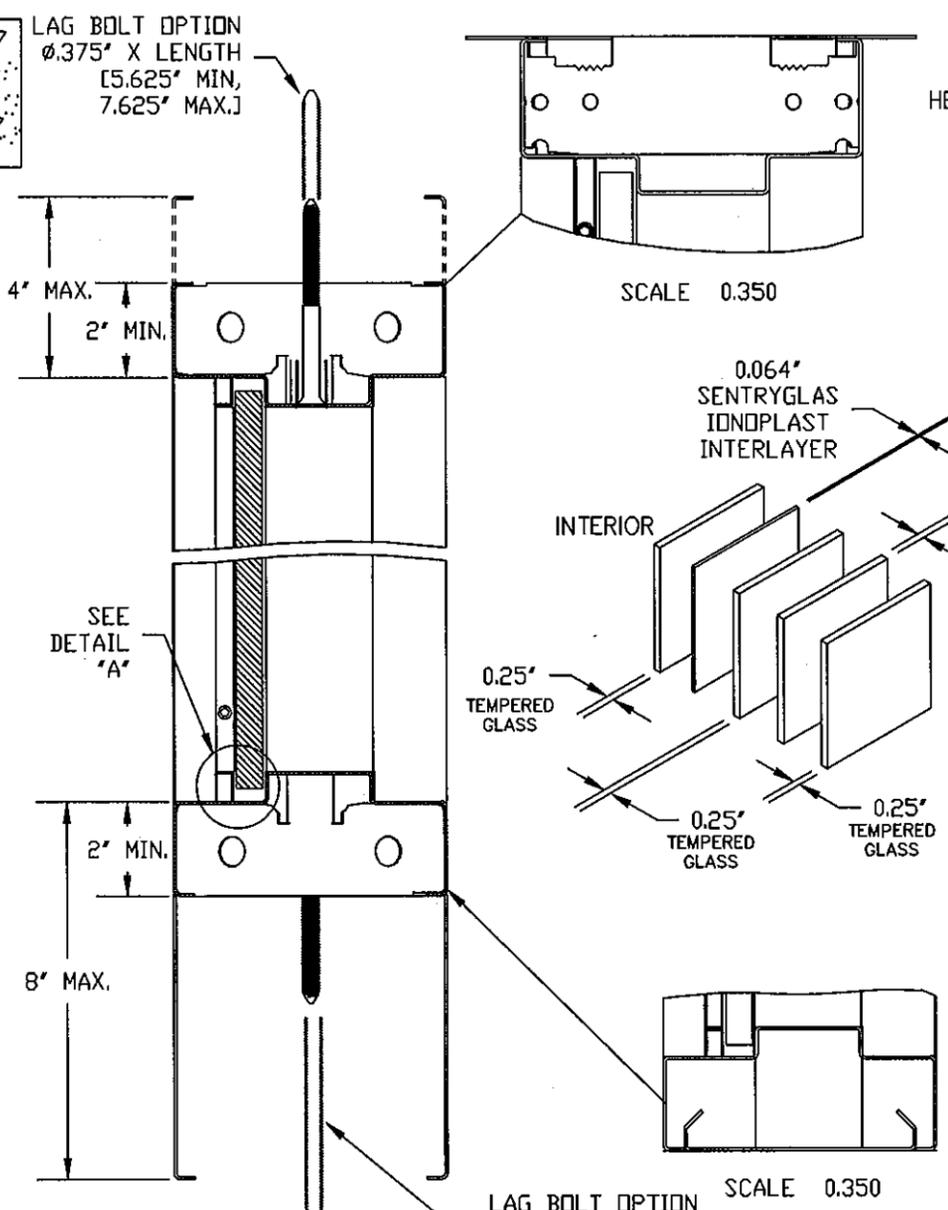
BEND RADIUS N/A		INGERSOLL-RAND COMPANY STEELCRAFT MFG. 9017 BlueAsh Rd. Cincinnati Ohio 452 42	
THIRD ANGLE PROJECTION			
DRAWN LWG	DATE 03/09/04	TITLE MIAMI-DADE COUNTY APPROVED F FRAMES	
CHECKED YMF		BORROWED LITE ELEVATIONS, HORIZONTAL CROSS-SECTION	
APPROVED M. COLLINS	SIZE B	FLAT N/A	DWG NO. 1107W
ENG. APPVL	SCALE SEE VIEWS	Pro/Engineer	OF TEST H
			SHEET 3 OF 5

REVISIONS

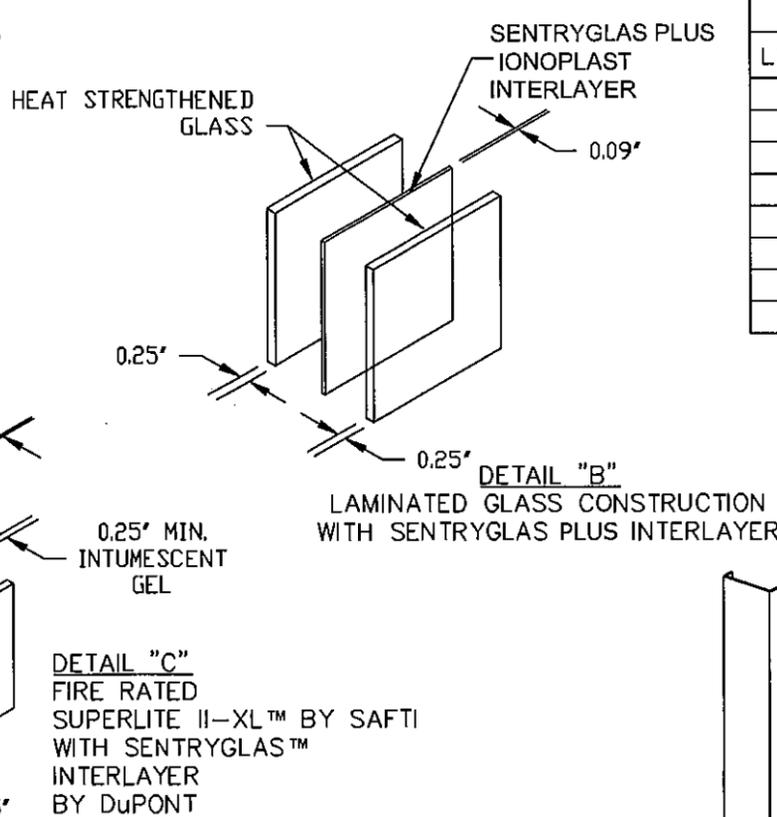
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A	APPROVAL DRAWING	03/22/04	
B	CHANGES PER MARKED PRINT	04/23/04	
C	MODIFIED PER EC#04-305 LWG	08/27/04	
D	MODIFIED PER DC BCCD YMF	08/27/04	
E	MODIFIED PER DC BCCD YMF	05/02/05	
F	MODIFIED PER DC BCCD YMF	06/02/05	
G	REVISED DRAWING	01/19/11	
H	REVISED DRAWING	05/31/11	



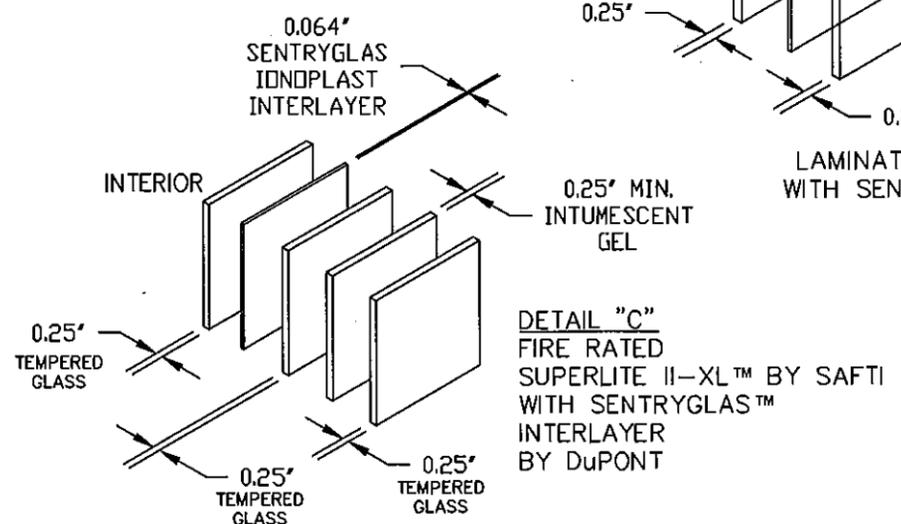
SECTION C-C
MASONRY BLOCK WALL
SCALE 0.350



SECTION D-D
WOOD STUD WALL
SCALE 0.350

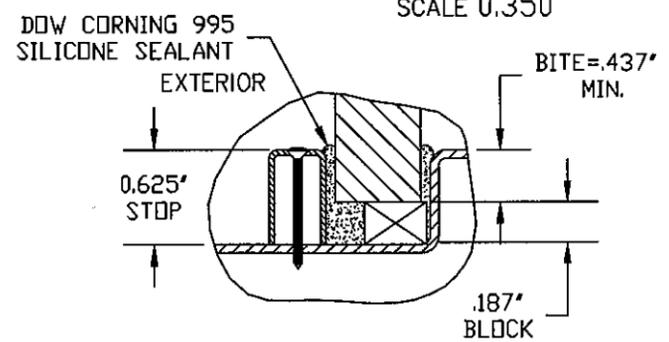


0.25" LAMINATED GLASS CONSTRUCTION WITH SENTRYGLAS PLUS INTERLAYER



DETAIL "C"
FIRE RATED SUPERLITE II-XL™ BY SAFTI WITH SENTRYGLAS™ INTERLAYER BY DUPONT

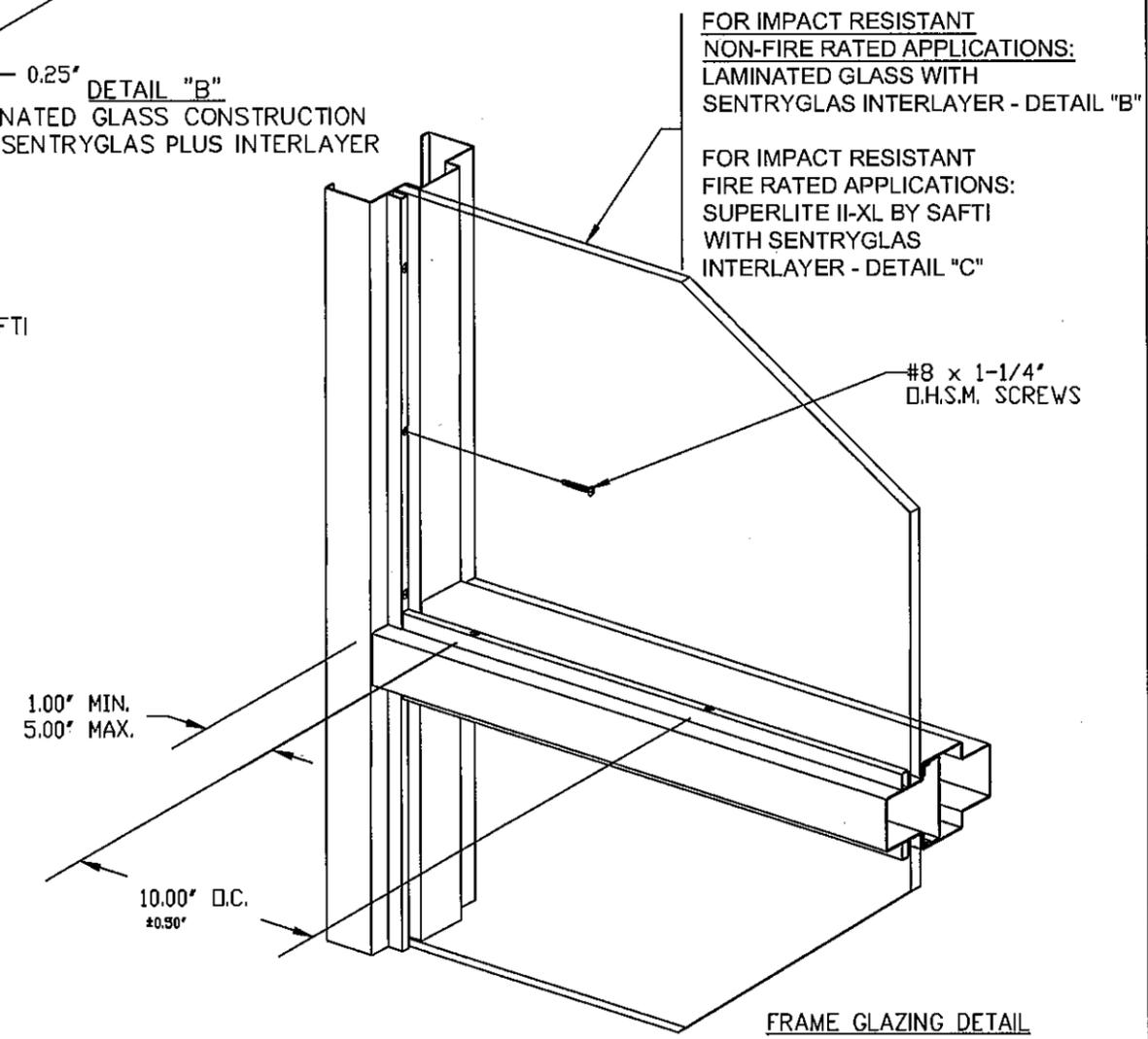
0.25" MIN. INTUMESCENT GEL



DETAIL "A"
GLAZING DETAIL
FOR NON-FIRE RATED APPLICATIONS WITH LAMINATED GLASS OR FIRE RATED APPLICATIONS WITH SUPERLITE II-XL BY SAFTI

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 10-1130.01
 Expiration Date 06/30/2015
 By *[Signature]*
 Miami Dade Product Control

[Signature]
 Gordon Thomas, P.E. Date
 3759 Blossom Court
 Mason, OH 45040
 Florida # 46718



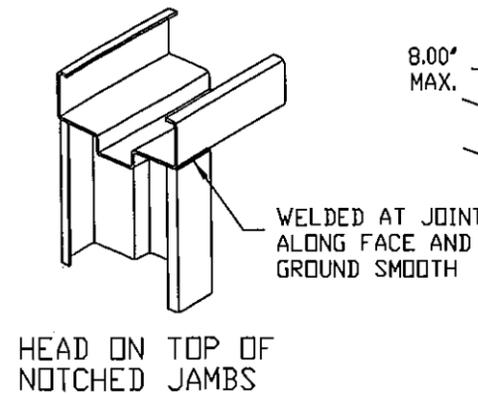
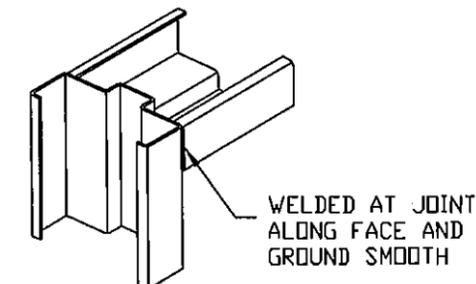
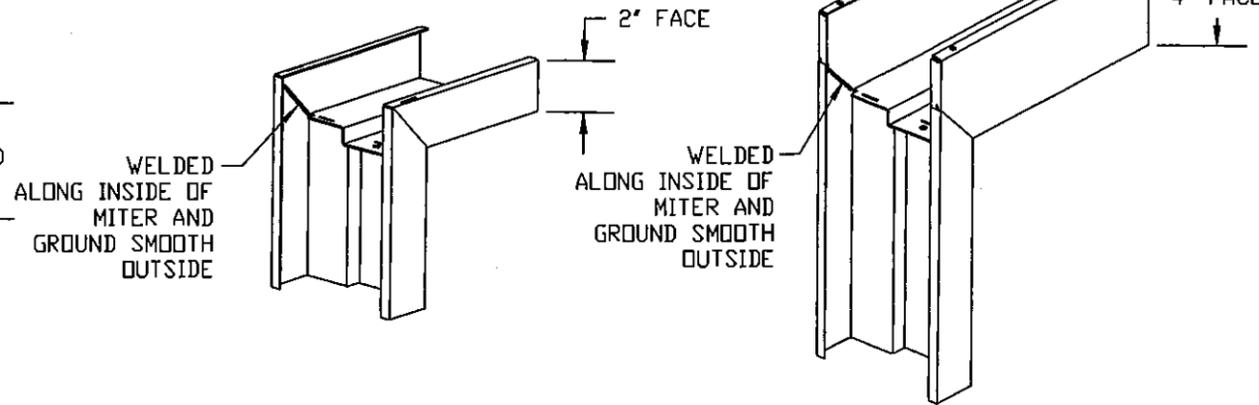
FRAME GLAZING DETAIL
SCALE 0.180

BEND RADIUS N/A		INGERSOLL-RAND COMPANY STEELCRAFT MFG. 9017 BlueAsh Rd. Cincinnati Ohio 452 42		
THIRD ANGLE PROJECTION				
DRAWN LWG	DATE 03/09/04	TITLE MIAMI-DADE COUNTY APPROVED F FRAMES BORROWED LITE ELEVATIONS. VERTICAL CROSS-SECTION		
CHECKED YMF	APPROVED M. COLLINS	SIZE B	DWG NO. 1107W	REV H
ENG. APPVL	SCALE Pro/Engineer	OF TEST	SHEET 4 OF 5	

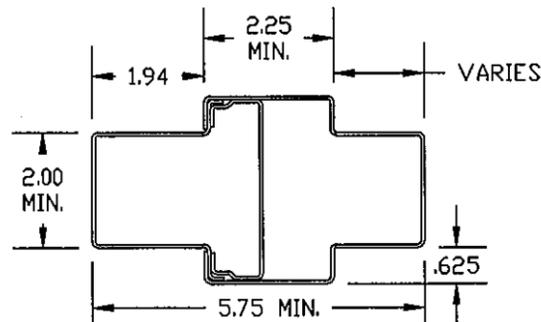
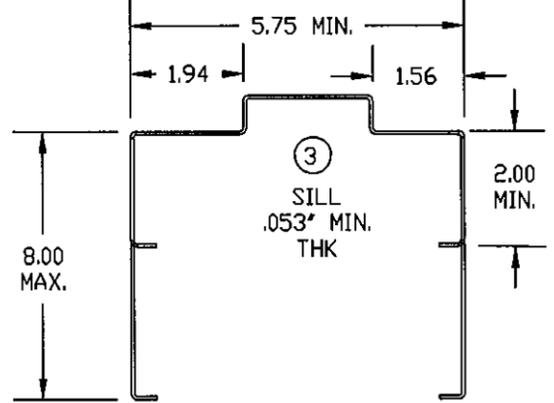
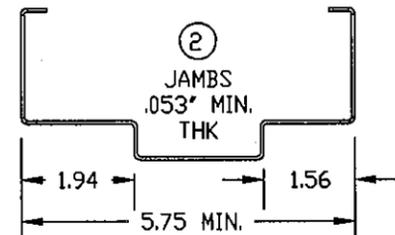
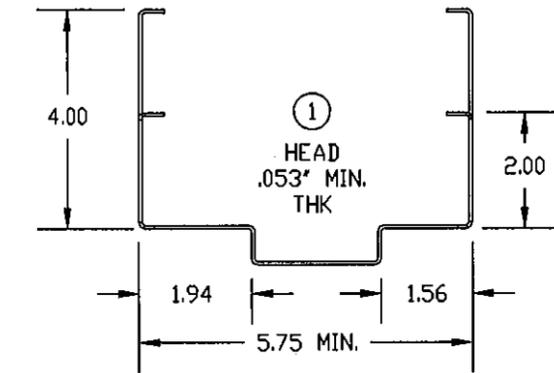
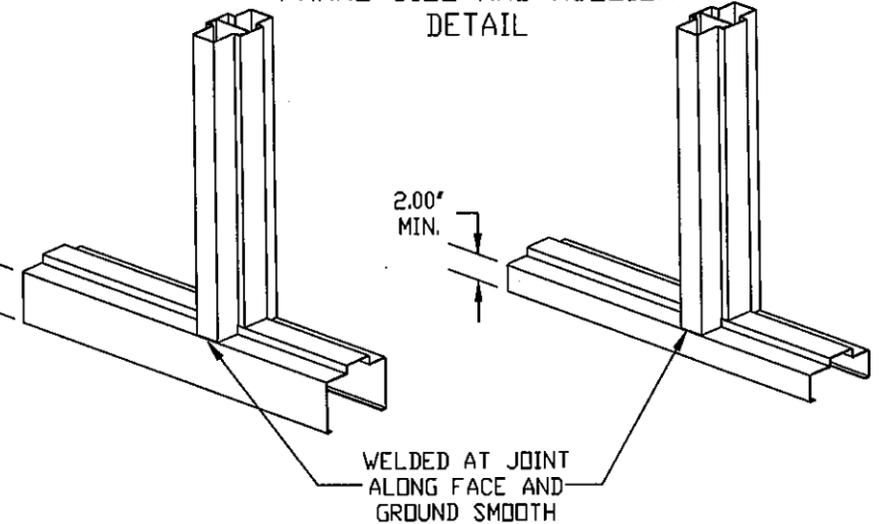
REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DRAWING	03/22/04	
B	CHANGES PER MARKED PRINT	04/23/04	
C	MODIFIED PER EC#04-305 LWG	08/27/04	
D	MODIFIED DC BCCO	08/27/04	
E	RENEWAL DWG	01/26/10	
F	RENEWAL DWG	04/19/10	
G	REVISION DWG	11/22/10	

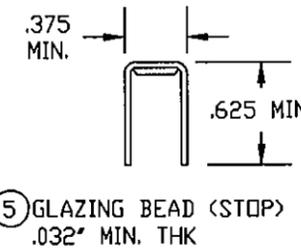
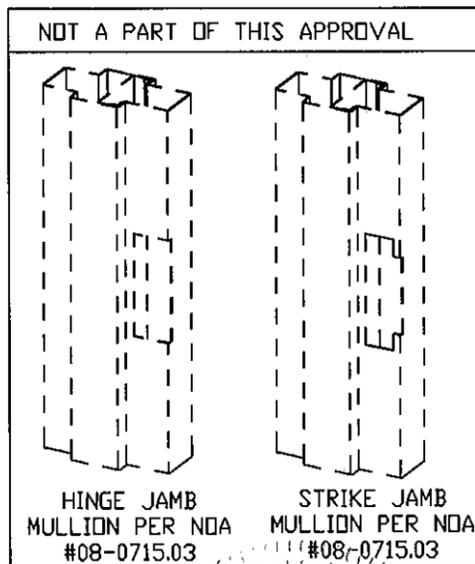
FRAME CORNER CONNECTION 'SUA' SET-UP AND ARCH WELDED ASS'Y



FRAME SILL AND MULLION DETAIL



HEAD NOTCHED & BUTTED BETWEEN JAMBS



MATERIAL LIST				
ITEM	QTY	DESCRIPTION	MATERIAL	SIZE
1	AS REQ'D	FRAME HEAD	STEEL 16 GA. .053" MIN.	MAX. 176"
2	AS REQ'D	FRAME JAMBS	STEEL 16 GA. .053" MIN.	MAX. 122"
3	AS REQ'D	FRAME SILL	STEEL 16 GA. .053" MIN.	MAX. 176"
4	AS REQ'D	CLOSED SECTION FRAME MULLION/TRANSOM	STEEL 16 GA. .053" MIN.	MAX. 118"
5	AS REQ'D	GLAZING BEAD (STOP)	STEEL 20 GA. .034" MIN.	MAX. 118"
6	AS REQ'D	GLAZING BEAD SCREW	8-18 x 1-1/4 PDHB	@ 5' FROM ENDS, 10' O.C.
7	AS REQ'D	SIKAFLEX 552 GLAZING COMPOUND	POLYURETHANE BASED	-

APPLY 6/5/11
 Gordon Thomas, P.E. Date
 3759 Blossom Court
 Mason, OH 45040
 Florida # 48718

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 10-1130-01
 Expiration Date 06/30/2015
 BY *[Signature]*
 Miami Dade Product Control

INGERSOLL-RAND COMPANY
 STEELCRAFT MFG.
 9017 BlueAsh Rd. Cincinnati Ohio 452 42

MIAMI-DADE COUNTY APPROVED F FRAMES

BORROWED LITE ELEVATIONS, PROFILE AND CONNECTION DETAILS.

APPROVED M. COLLINS
 ENG. APPVL

SIZE B FLAT
 DWG NO. 1107W
 OF TEST
 REV G

SCALE: Pro/Engineer SHEET 5 OF 5