



**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)

**Traco Windows & Doors
71 Progress Ave.
Cranberry Township, PA 16066**

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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "C1200/1000 Aluminum Casement Window-Impact

APPROVAL DOCUMENT: Drawing No. **06-TRA-0002**, titled "Series C1200/1000 Aluminum Casement Window", Sheets 1 thru 3 of 3, prepared by Engineering Express, dated 06/19/06, with last revision on 10/19/06, signed by sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control 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 and renews NOA # 01-0606.03**, and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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



*J. Gascon
11/8/06*

NOA No 06-0706.18
Expiration Date: January 10, 2011
Approval Date: November 30, 2006
Page 1

Traco Windows & Doors, Inc.

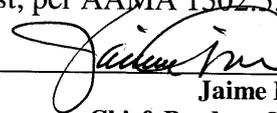
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **06-TRA-0002**, titled "Series C1200/1000 Aluminum Casement Window", Sheets 1 thru 3 of 3, prepared by Engineering Express, dated 06/19/06, with last revision on 10/19/06, signed by sealed by Frank L. Bennardo, P.E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94.
 - 2) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94.
 - 3) Water Resistance Test, per FBC, TAS 202-94.
 - 4) Forced Entry Resistance Test, per AAMA 1302.5.
 - 5) Large Missile Impact Test, per FBC, TAS 201-94.
 - 6) Cyclic Wind Pressure Loading Test, per FBC, TAS 203-94.along with installation diagram of an XX configuration 74" wide by 50 5/8" high aluminum casement window glazed with 5/16" annealed *Saflex IIIIG*, prepared by Fenestration Testing Laboratory report No. **FTL-2794**, dated January 29, 2001, signed and sealed by Luis Antonio Figueredo, P.E.
2. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94.
 - 2) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94.
 - 3) Water Resistance Test, per FBC, TAS 202-94.
 - 4) Forced Entry Resistance Test, per AAMA 1302.5.along with installation diagram of an XX configuration 74" wide by 63" high aluminum casement window glazed with 3/16" annealed glass, prepared by Fenestration Testing Laboratory report No. **FTL-2886**, dated November 27, 2000, signed and sealed by Jose Antonio Acevedo, P.E.
3. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94.
 - 2) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94.
 - 3) Water Resistance Test, per FBC, TAS 202-94.
 - 4) Forced Entry Resistance Test, per AAMA 1302.5.
 - 5) Large Missile Impact Test, per SFBC, TAS 201-94.
 - 6) Cyclic Wind Pressure Loading Test, per FBC, TAS 203-94.along with installation diagram of an X configuration 37" wide by 63" high aluminum casement window glazed with 5/16" annealed *Saflex IIIIG*, prepared by Fenestration Testing Laboratory report No. **FTL-2781**, dated January 16, 2001, signed and sealed by Luis Antonio Figueredo, P.E.
4. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94.
 - 2) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94.
 - 3) Water Resistance Test, per FBC, TAS 202-94.
 - 4) Forced Entry Resistance Test, per AAMA 1302.5.



Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 06-0706.18

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along with installation diagram of an X configuration 37" wide by 63" high aluminum casement window glazed with 1/4" annealed glass, prepared by Fenestration Testing Laboratory report No. **FTL-2878**, dated November 27, 2000, signed and sealed by Jose Antonio Acevedo, P.E.

C. CALCULATIONS

1. Revised Anchor Calculations and, prepared by Frank L. Bennardo, P.E., and Consulting Engineer, dated 10/19/06, signed and sealed by Frank Bennardo, P.E.
Complies with ASTM E1300-02
No 1/3 stress increase used in anchors into masonry or steel substrate.

D. QUALITY ASSURANCE

1. Miami-Dade County Building Code Compliance Office.

E. MATERIALS

1. Notice of Acceptance No. **06-0216.06**, issued to Solutia Inc. for "Saflex IIIIG Clear or Colored Interlayer" dated 05/04/06, expiring on 05/21/112.

F. STATEMENTS

1. Statement letter of no financial interest, dated 06/21/06, signed and sealed by Frank Bennardo, P.E.
2. Statement letter of conformance, dated 06/15/06, signed and sealed by Frank Bennardo, P.E.

G. OTHER

1. Letter from the consultant, dated 10/27/06, stating that the product is in compliance with Florida Building Code (FBC).



Jaime D. Gascon, P.E.

Chief, Product Control Division

NOA No 06-0706.18

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SERIES C1200/1000 ALUMINUM CASEMENT WINDOW

LARGE MISSILE IMPACT RESISTANT

FRANK L. BENNARDO, P.E.
PE0046549

10/19/2006

ENGINEERING EXPRESS
160 SW 12th AVENUE, # 106
DEERFIELD BEACH, FL 33442
Ph: (954) 354-0660 Fax: (954) 354-0443
WWW.ENGEXP.COM
CERT. OF AUTH. #9885
A FRANK L. BENNARDO, P.E., INC. INNOVATION

71 Progress Avenue,
Cranberry Township, PA 16166
Tel. (724) 776-7000

TRACO
Windows & Doors Inc.
SERIES C1200 / 1000 CASEMENT WINDOW
LARGE MISSILE IMPACT RESISTANT
MIAMI-DADE NOTICE OF ACCEPTANCE



REMARKS	DRWN	CHKD	DATE
INIT ISSUE	CL	FLB	6/19/06
COUNTY COMMENTS	JEM	CL	10/19/06

06-TRA-0002

SCALE: 1/8" = 1'-0"

PAGE DESCRIPTION:

1

DESIGN LOAD SCHEDULE

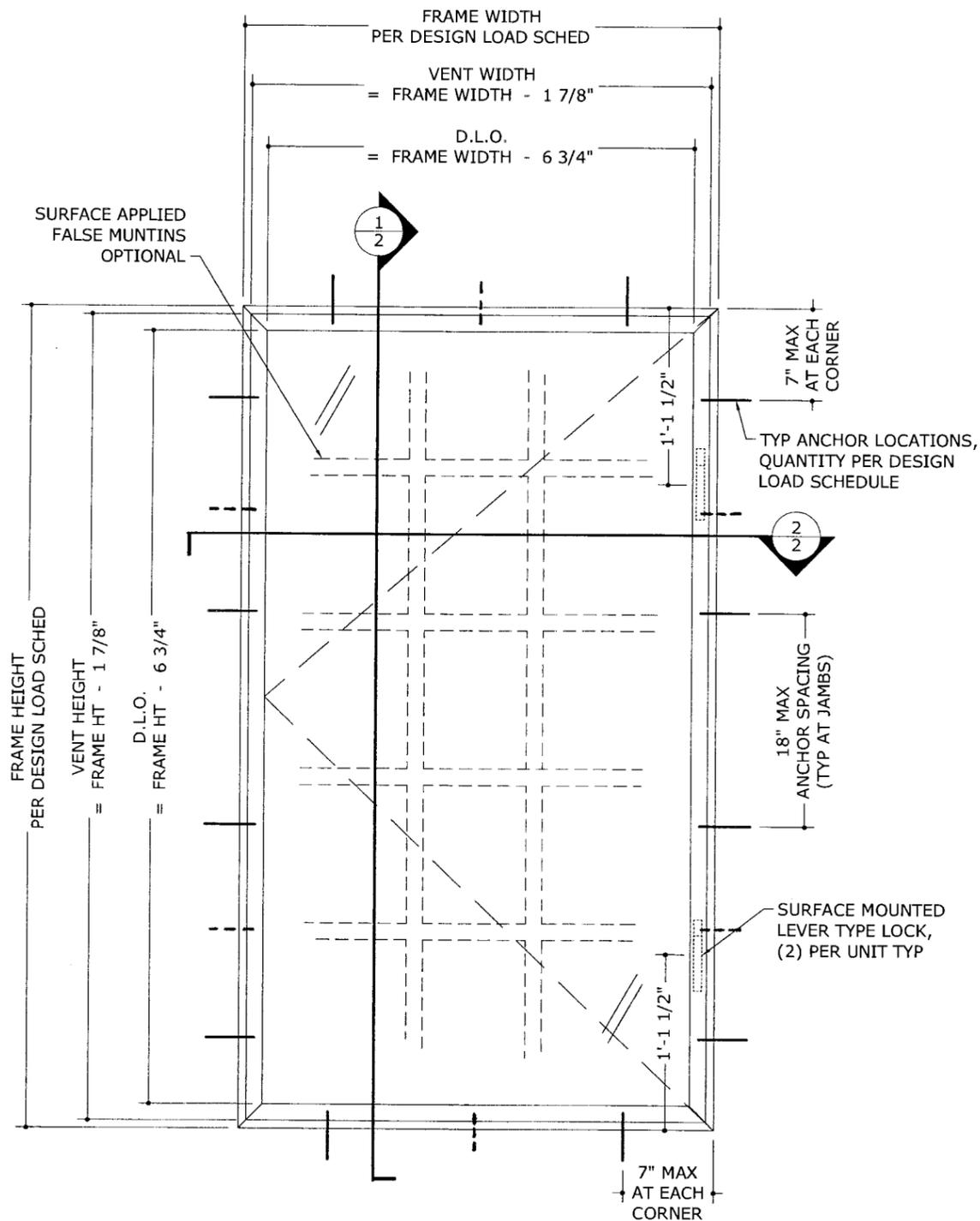
FRAME WIDTH	FRAME HEIGHT	ANCHORS PER JAMB	ANCHORS AT HEAD/SILL	ALLOWABLE PRESSURES	
				(POS)	(NEG)
19 1/8"	26"	2	2	+80.0 psf	-80.0 psf
26 1/2"		2	2	+80.0 psf	-80.0 psf
37"		3	3	+80.0 psf	-80.0 psf
19 1/8"	38 3/8"	3	2	+80.0 psf	-80.0 psf
26 1/2"		3	2	+80.0 psf	-80.0 psf
37"		4	2	+80.0 psf	-80.0 psf
19 1/8"	50 5/8"	4	2	+80.0 psf	-80.0 psf
26 1/2"		4	2	+80.0 psf	-80.0 psf
37"		5	3	+80.0 psf	-80.0 psf
19 1/8"	63"	4	2	+80.0 psf	-80.0 psf
26 1/2"		5	3	+80.0 psf	-80.0 psf
37"		6	3	+73.5 psf	-73.5 psf
19 1/8"	74 1/4"	5	3	+80.0 psf	-80.0 psf
26 1/2"		6	3	+62.2 psf	-62.2 psf

NOTES:

- * 26" HIGH WINDOWS TO HAVE ONE LATCH ONLY

GENERAL NOTES:

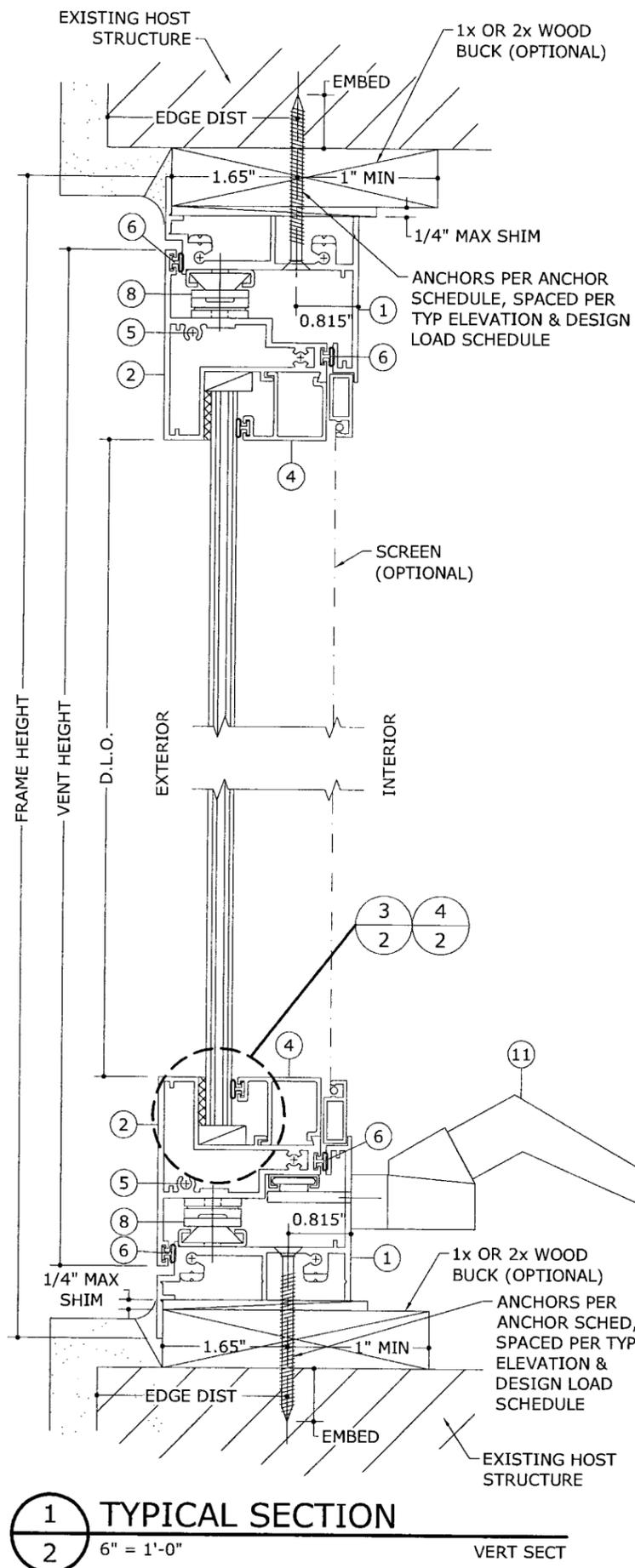
- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE, HIGH VELOCITY HURRICANE ZONES, MIAMI-DADE COUNTY PROTOCOLS TAS 201, 202 & 203, AND ASTM E 1300-02.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
- MULTIPLE UNITS MUST BE INSTALLED USING MIAMI-DADE COUNTY BCCO-APPROVED STRUCTURAL MULLIONS.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- PANELS GLAZED WITH 5/16" or 7/16" LAMINATED GLASS (LAMINATED BY 'DUPONT' OR 'SOLUTIA') ARE LARGE MISSILE IMPACT RESISTANT AND DO NOT REQUIRE IMPACT RESISTANT SHUTTERS.
- EXTERIOR SEAM OF FRAME CORNERS SEALED WITH SILICONE. VENT & FRAME CORNERS SEALED WITH SEALANT.
- ALL EXTRUSIONS SHALL BE 6063-T5 ALUMINUM ALLOY, UNLESS NOTED OTHERWISE.
- ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED.



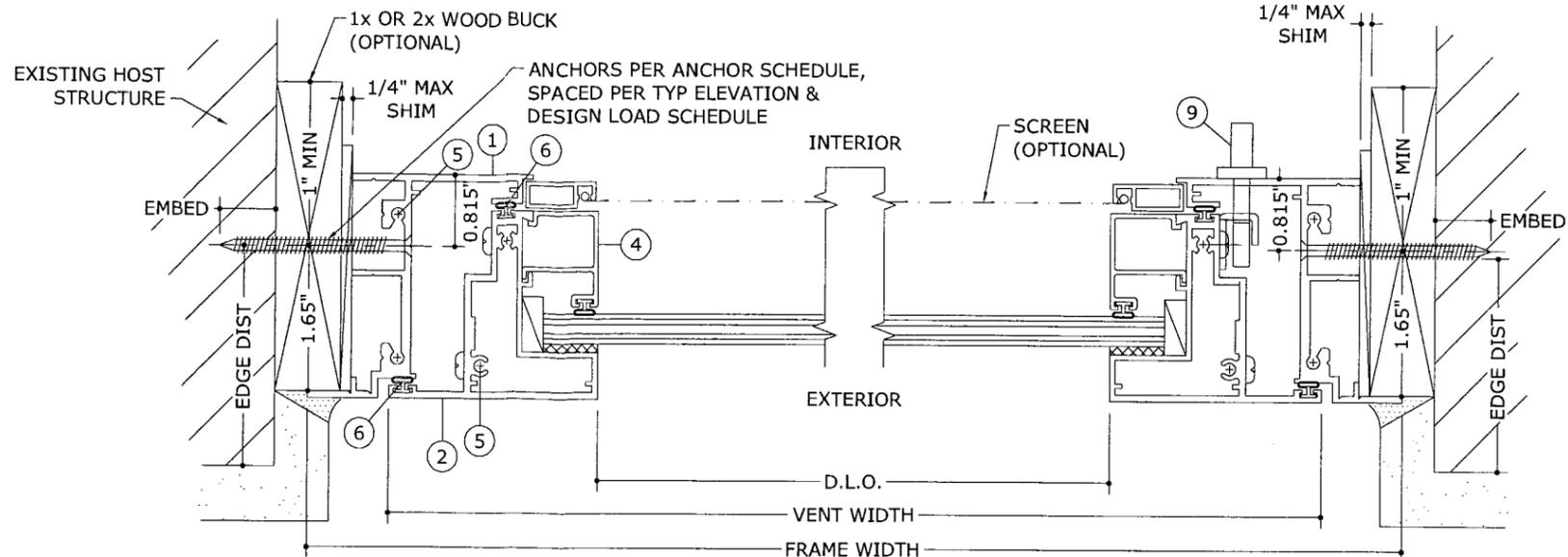
1 TYPICAL ELEVATION
1 1" = 1'-0" EXTER ELEV

PRODUCT RENEWED
in compliance with the Florida
Building Code
Acceptance No. 06-0706-18
Expiration Date 04/10/11
By *[Signature]*
Miami-Dade Product Control
Division

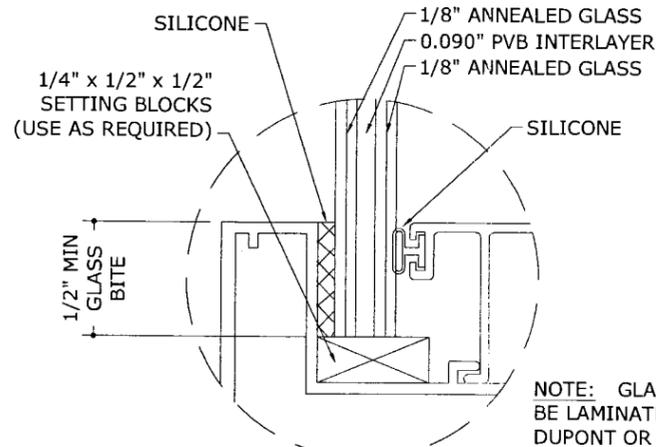
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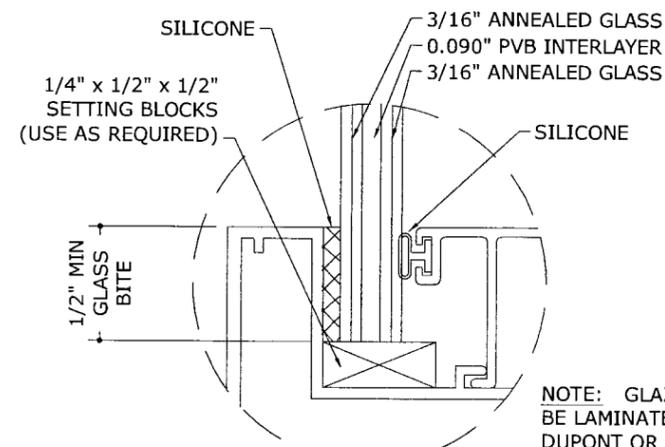
1 TYPICAL SECTION
2 6" = 1'-0" VERT SECT



2 TYPICAL SECTION
2 6" = 1'-0" HORIZ SECT



3 5/16" GLAZING DETAIL
2 1:1 VERT SECT



4 7/16" GLAZING DETAIL
2 1:1 VERT SECT

ANCHOR SCHEDULE:

- **TO HOLLOW BLOCK OR CONCRETE:**
1/4" TAPCONS (ELCO OR ITW) THRU WOOD BUCKS OR DIRECTLY INTO MASONRY/CONCRETE WITH 1-1/2" MIN EMBED.
- **TO WOOD BUCK OR HOST STRUCTURE:**
1/4" TAPCONS (ELCO OR ITW) WITH 1-1/2" MIN THREAD PENETRATION.
- **TO STEEL OR 6063-T5 OR 6063-T6 ALUM MULLION:**
#14 SMS OR 1/4" SELF-DRILLING METAL SCREWS (1/8" MIN THICKNESS).

ANCHOR NOTES:

1. ENSURE MINIMUM 2-1/2" EDGE DISTANCE FOR ALL ANCHORS TO CONCRETE (MIN. 3 KSI) & TO HOLLOW BLOCK (MIN. 1.5 KSI). EDGE DISTANCE OF 1" IS ACCEPTABLE FOR ANCHORS TO STEEL OR ALUMINUM.
2. WOOD ANCHORS SHALL BE INSTALLED WITH 1" MIN EDGE DISTANCE. WOOD STUD SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
3. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
4. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
5. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.

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By [Signature]
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FRANK L. BENNARDO, P.E.
PE0046549

10/19/2006

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160 SW 12th AVENUE, #106
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TRACO
Windows & Doors Inc.

SERIES C1200 / 1000 CASEMENT WINDOW
LARGE MISSILE IMPACT RESISTANT
MIAMI-DADE NOTICE OF ACCEPTANCE

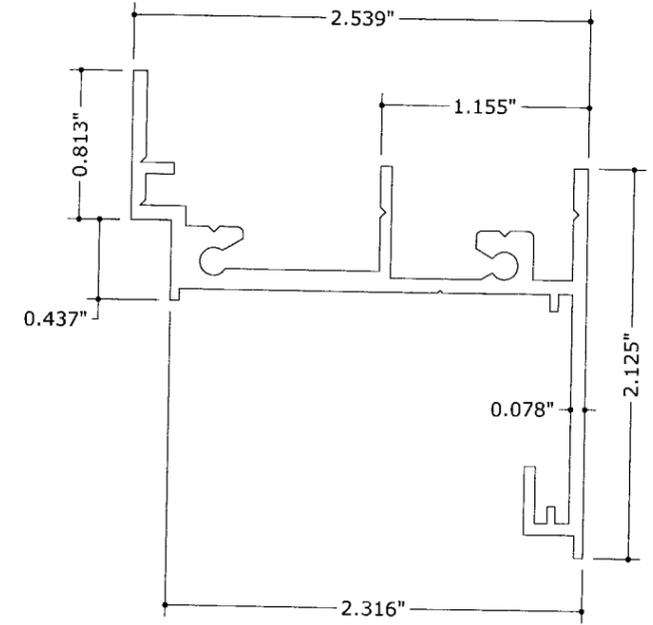
DRWN	CHKD	DATE
CL	FLB	6/19/06
JEM	CL	10/19/06

REMARKS	INIT	ISSUE	COUNTY	COMMENTS

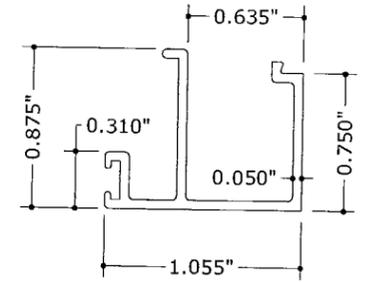
06-TRA-0002
SCALE: 1/8" = 1'-0"
PAGE DESCRIPTION:
2

MATERIALS LIST

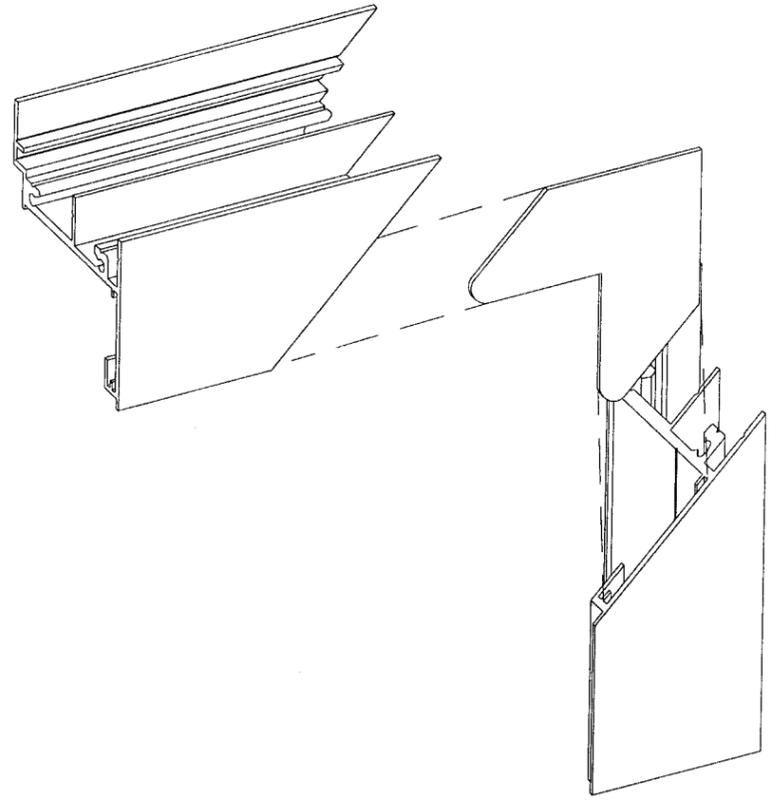
ITEM NO.	PART NUM	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	050-730	4	FRAME (HEAD, SILL, & JAMBS)	6063-T5	-
2	051-731	4	VENT (HEAD, SILL, & JAMBS)	6063-T5	-
-	-	-	-	-	-
4	050-734	AS REQ'D	GLAZING BEAD	6063-T5	-
5	-	AS REQ'D	FRAME & VENT ASSEMBLY SCREWS	-	#8 X 1" SS SMS
6	-	AS REQ'D	BULB WEATHERSTRIPPING	VINYL	-
7	-	1 / CORNER	FRAME CORNER KEY	ALUMINUM	-
8	-	2 / VENT	4 BAR HINGE, AT TOP & BOTTOM	STEEL	TRUTH ATTACHED W/ (6) #8 x 3/8" SS SMS
9	-	2 / VENT	FACE MOUNT LOCK	STEEL	AT 13-1/2" FROM TOP & BOTTOM
10	-	2 / VENT	0.110" THICK LOCK KEEPER, AT FRAME JAMB FACING LOCK	STEEL	ATTACHED W/ (2) #10 x 3/8" SS SMS
11	-	1	OPERATOR HANDLE	STEEL	TRUTH ATTACHED W/ (2) #8 x 3/8" SS SMS



1 FRAME
1:1

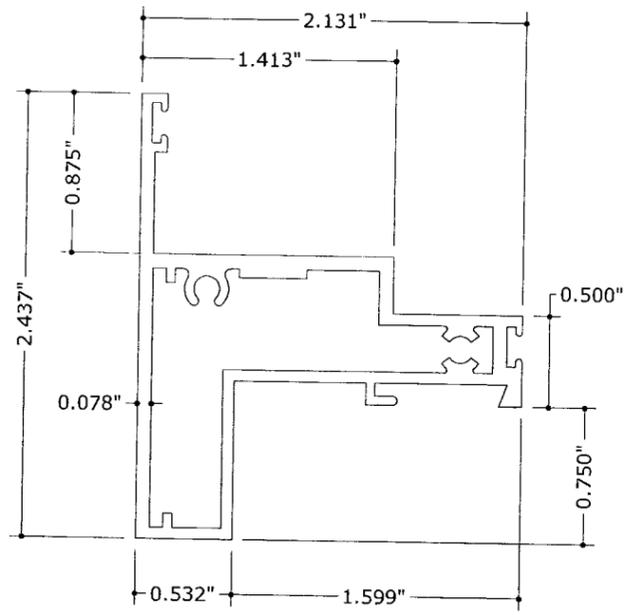


4 GLAZING BEAD
1:1



1 FRAME CORNER ASSEMBLY
3 N.T.S. EXPLODED ISOMETRIC

2 VENT CORNER ASSEMBLY
3 N.T.S. EXPLODED ISOMETRIC



2 VENT
1:1

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10/19/2006

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REMARKS	DRWN	CHKD	DATE
INIT ISSUE	CL	FLB	6/19/06
COUNTY COMMENTS	JEM	CL	10/19/06

06-TRA-0002
SCALE: 01
PAGE DESCRIPTION:
3