



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
www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

Sabana Windows, Inc.
6157 NW 167th Street Unit F-25
Miami, FL 33015

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 "Sabana" Outswing Wood Casement Window – L. M. I.

APPROVAL DOCUMENT: Drawing No. **05-310**, titled "Mahogany Impact Casement Window", sheets 1 through 11 of 11, dated 9/27/05, prepared by EngCo, Inc., signed and sealed by Pedro De Figueiredo, 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 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 # **02-0828.04** 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 **Manuel Perez, P.E.**



NOA No 05-1006.02
Expiration Date: October 07, 2007
Approval Date: May 11, 2006
Page 1

INDEX:

- SHEET 1 of 11 - GENERAL NOTES & MODEL TYPES
- SHEET 2 of 11 - MODEL A ELEVATIONS
- SHEET 3 of 11 - MODEL A DETAILS
- SHEET 4 of 11 - MODEL B ELEVATIONS
- SHEET 5 of 11 - MODEL B DETAILS
- SHEET 6 of 11 - MODEL C ELEVATIONS
- SHEET 7 of 11 - MODEL C DETAILS
- SHEET 8 of 11 - MODEL D ELEVATIONS
- SHEET 9 of 11 - MODEL D DETAILS
- SHEET 10 of 11 - MODEL E ELEVATIONS
- SHEET 11 of 11 - MODEL E DETAILS

GENERAL NOTES:

1- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2004 EDITION - (HIGH VELOCITY HURRICANE ZONE).

2- DEFINITION: THIS PRODUCT IS A MAHOGANY WOOD CASEMENT TYPE WINDOW WITH LARGE AND SMALL MISSILE IMPACT RESISTANCE.

3- POSTING:
 *MAHOGANY WOOD CASEMENT WINDOW
 LARGE & SMALL MISSILE IMPACT RESISTANT
 SABANA WINDOWS, INC.
 MIAMI LAKES - FLORIDA
 DADE COUNTY PRODUCT CONTROL APPROVED*

4- DESIGN LOADS: LOADS MUST BE CALCULATED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE APPROVED PRESSURE.

5- MATERIAL: ALL PARTS TO BE MAHOGANY WOOD AND GLAZING TO BE LAMINATED IMPACT RESISTANT GLASS AS SPECIFIED ON THIS APPROVAL.

6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THIS CURRENT SET OF DRAWINGS.

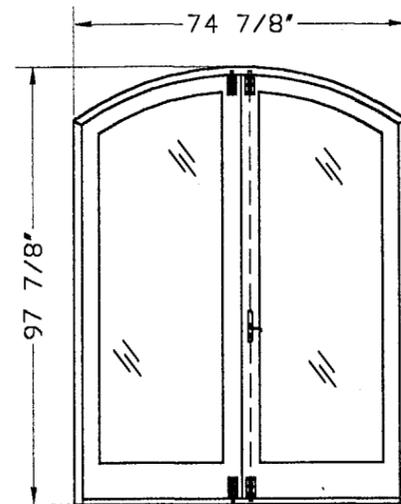
7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:

7.1- THE STABILITY OF THE STRUCTURE WHERE THE UNIT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.

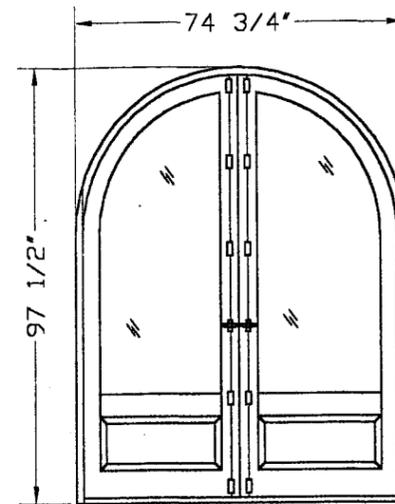
7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.

7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.

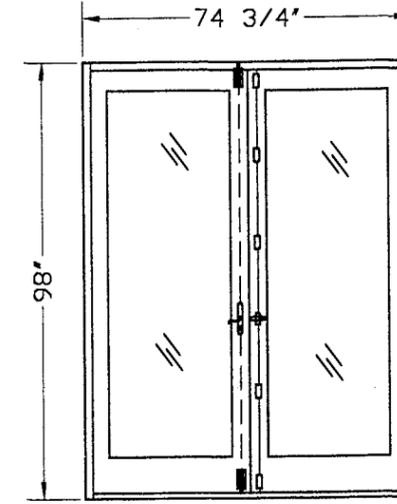
8- 33 1/3% INCREASE IN ALLOWABLE LOADS HAVE NOT BEEN USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT APPROVAL, EXCEPT WOOD SCREWS WITH 1.33 INCREASE FOR WIND LOAD DURATION HAVE BEEN USED.



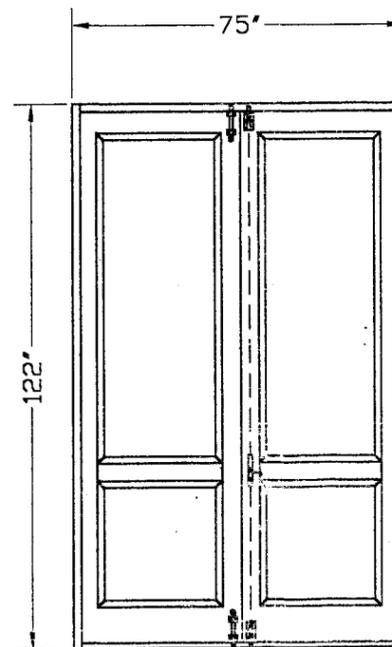
MODEL A
 ELLIPSE FRENCH
 SWING-OUT WINDOW
 DESIGNED LOADS = +53 PSF, -70 PSF
 FOR MODEL A DETAILS REFER TO:
 SHEET 2 AND 3 OF 11



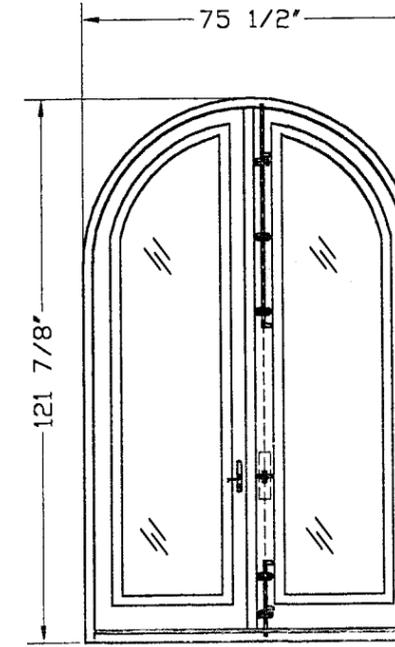
MODEL B
 FULL ARCHED FRENCH
 SWING-OUT WINDOW
 DESIGNED LOADS = +53 PSF, -70 PSF
 FOR MODEL B DETAILS REFER TO:
 SHEET 4 AND 5 OF 11



MODEL C
 SQUARE FRENCH
 SWING-OUT WINDOW
 DESIGNED LOADS = +53 PSF, -70 PSF
 FOR MODEL C DETAILS REFER TO:
 SHEET 6 AND 7 OF 11



MODEL D
 SOLID WOOD PANEL FRENCH
 SWING-OUT WINDOW
 DESIGNED LOADS = +53 PSF, -70 PSF
 FOR MODEL D DETAILS REFER TO:
 SHEET 8 AND 9 OF 11



MODEL E
 FULL ARCHED FRENCH
 SWING-OUT WINDOW
 DESIGNED LOADS = +75 PSF, -83 PSF
 FOR MODEL E DETAILS REFER TO:
 SHEET 10 AND 11 OF 11

MANUFACTURER:
**Sabana
 Windows**

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 UNIT F-25
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 33015
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PRODUCT:
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 Impact
 Casement
 Window**

Engineering:
EngCo Inc.

CA 8116
 6971 W. Sunrise Blvd. 104
 Plantation, Fl. 33313
 Tel.: (954) 585-0304
 Fax: (954) 585-0305

SEP 28 2005

Engineer Seal
 Pedro De Figueredo
 PE 52609

Date: 9/27/05
 Scale: NA
 Design by: PPMF

Miami Dade Office:

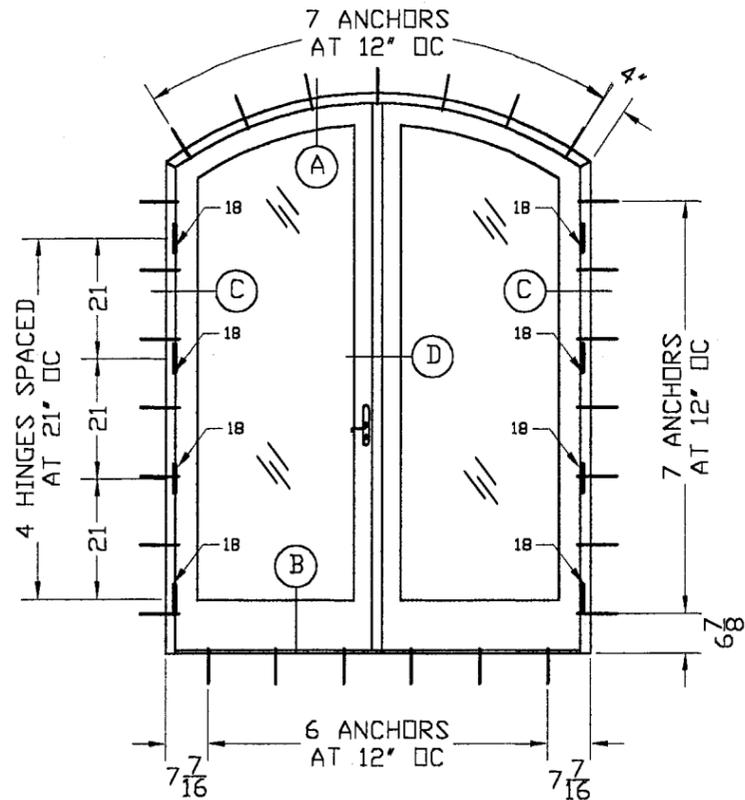
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 05-1006.02
 Expiration Date OCT. 1, 2007

By *Manuel Perez*
 Miami Dade Product Control
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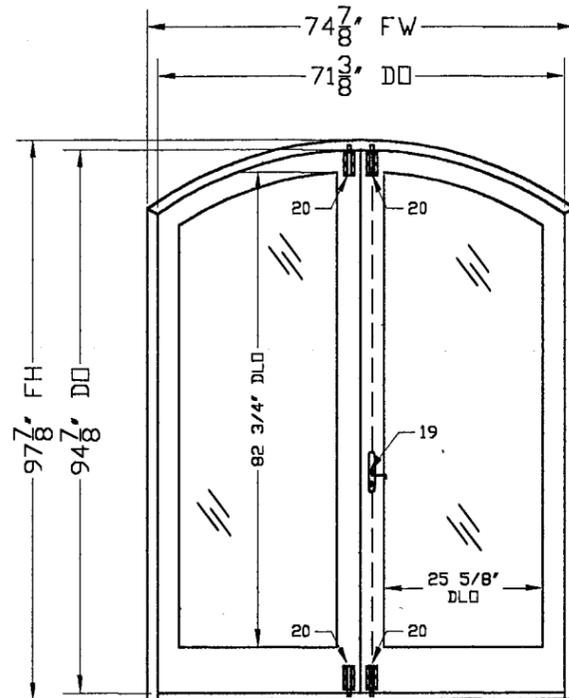
Drawing Number
 05-310

Sheet
 1 of 11

OUTSIDE ELEVATION



INSIDE ELEVATION



MODEL A - ELLIPSE FRENCH SWING-OUT WINDOW
 DESIGNED LOADS = +53 PSF, -70 PSF

MAX. FRAME SIZE = 74 7/8" X 97 7/8" X 6" DEEP FRAME
 MAX. PANEL SIZE = 35 5/16" X 95 7/16" X 2 1/8" DEEP
 MAX. GLASS SIZE = 27 1/4" X 84 1/4" X .511" THICK
 MAX. GLASS DLO = 25 5/8" X 82 3/4"
 WATER TEST PRESSURE: ±8 PSF (53, 33 DP)

INSTALLATION NOTES:

- ANCHOR: 1/4" TAPCON BY ELCO
 SUBSTRATUM EMBEDMENT
 WOOD (SG) = .55 1 1/2"
 CONCRETE (3320 psi) 1 1/4"
 MASONRY BLOCK 1 1/4"
- QUANTITY & SPACING AS PER ELEVATION
- 1X OR 2X WOOD BUCK TO BE DESIGNED BY OTHERS FOR IMPOSED LOADS.

SEE SHEET 3 OF 11 FOR DETAILS

BILL OF MATERIALS

ITEM#	DESCRIPTION	SIZE	MATERIAL & REMARKS
1	FRAME HEADER	1.75' x 6.00' x 1.50'	MAHOGANY WOOD
2	FRAME SILL	1.25' x 6.00' x 0.50'	MAHOGANY WOOD
3	FRAME JAMB	1.75' x 6.00' x 1.25'	MAHOGANY WOOD
4	PANEL TOP RAIL	2.13' x 5.00' x 3.50'	MAHOGANY WOOD
5	PANEL BOTTOM RAIL	2.13' x 7.50' x 5.38'	MAHOGANY WOOD
6	PANEL HINGE STILE	2.13' x 5.00' x 4.50'	MAHOGANY WOOD
7	PANEL LOCK STILE	2.13' x 5.00' x 3.75'	MAHOGANY
8	PANEL ASTRAGAL STILE	2.13' x 5.00' x 4.00'	MAHOGANY
9	MAHOGANY WOOD BEAD	1.00' x 0.75'	Attached w/ #8x 1 1/2" wd screws
10	MAHOGANY WOOD BEAD	0.75' x 1.00'	Attached w/ #8x 1 1/2" wd screws
11	MAHOGANY WOOD ASTRAGAL	1.13' x 1.75'	Attached w/ #10x 2" wd screws at 12" oc
12	CLOSED CELL FOAM STRIP	0.5' x .625'	FOAM TAPE FULL LENGTH OF SILL
13	Q'LDN SEAL @ FRAME/PANELS	.58' x 0.65'	SCHLEGEL #QDS-650
14	Q'LDN SEAL @ PANELS RAILS	.335' x .336'	SCHLEGEL #QEZ320
15	SEALANT CLEAR SILICONE		GE STOCK 012A
16	1/2" LAMINATED GLASS	.511" THICK	GLASSLAM
17	GLAZING CLEAR SILICONE	.90x.051	DOW CORNING 995

HARDWARE SCHEDULE

- HINGES <18>
 (4 HINGES/JAMB) 2 3/4" w X 4" h X .068" HINGES @ 21" OC CONNECTED TO PANEL AND FRAME WITH (8)
 #10X 1 1/2" WOOD SCREWS
- ACTIVE STILE:
 <19> SCHELEGEL MULTI-BOLT LOCK WITH BRASS KEEP SET, 52 MM BA 10' FULL LENGTH STAINLESS. THE STRIKE
 PLATE WAS 1/4" THICK STEEL.
 <20> NATIONAL .611" DIA. THROW CONNECTED WITH (6) 1/4-20 SS MS AND NUTS.
- INACTIVE STILE:
 <20> NATIONAL .611" DIA. THROW CONNECTED WITH (6) 1/4-20 SS MS AND NUTS.

MANUFACTURER:
**Sabana
 Windows**

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 UNIT F-25
 MIAMI LAKES, FLORIDA
 33015
 PH: (305) 825-1256
 FAX: (305) 825-3805

PRODUCT:
**Mahogany
 Impact
 Casement
 Window**

Engineering:
EngCo Inc.

CA 8116
 6971 W. Sunrise Blvd. 104
 Plantation, Fl. 33313
 Tel.: (954) 585-0304
 Fax: (954) 585-0305

SEP 28 2005

Engineer Seal
 Pedro De Figueiredo
 PE 52609

Date: 9/27/05
 Scale: NA
 Design by: PPMF

Miami Dade Office:

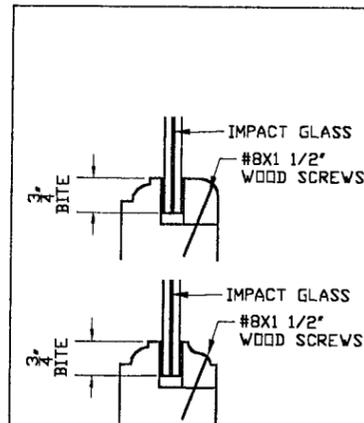
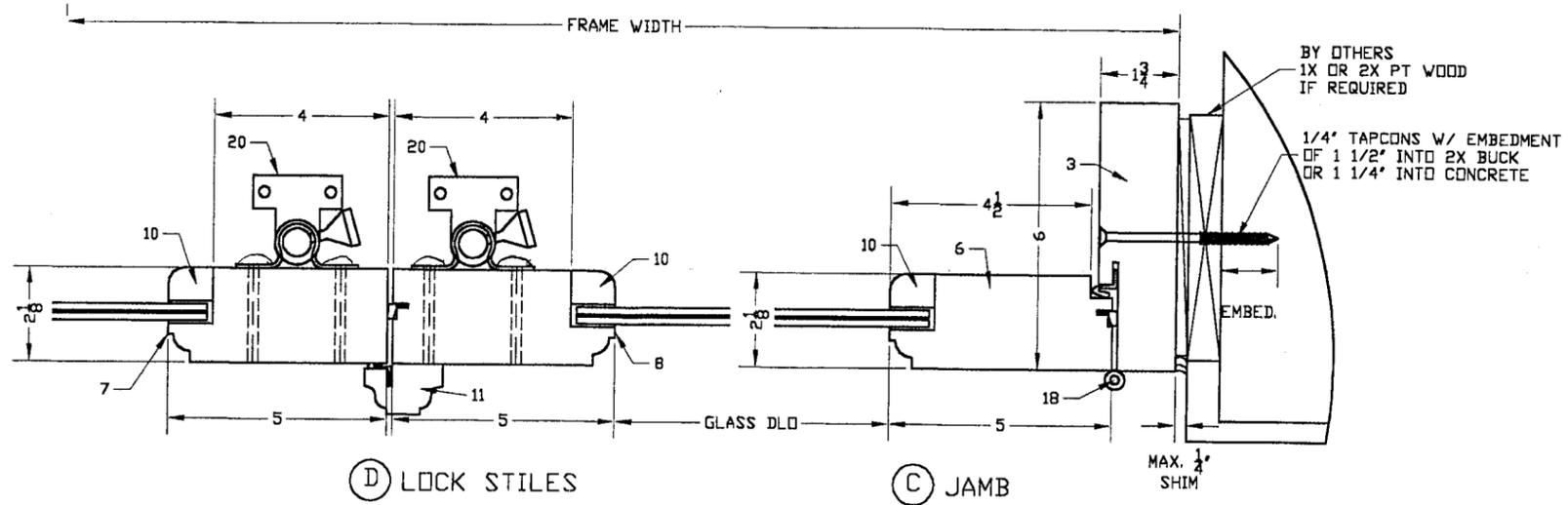
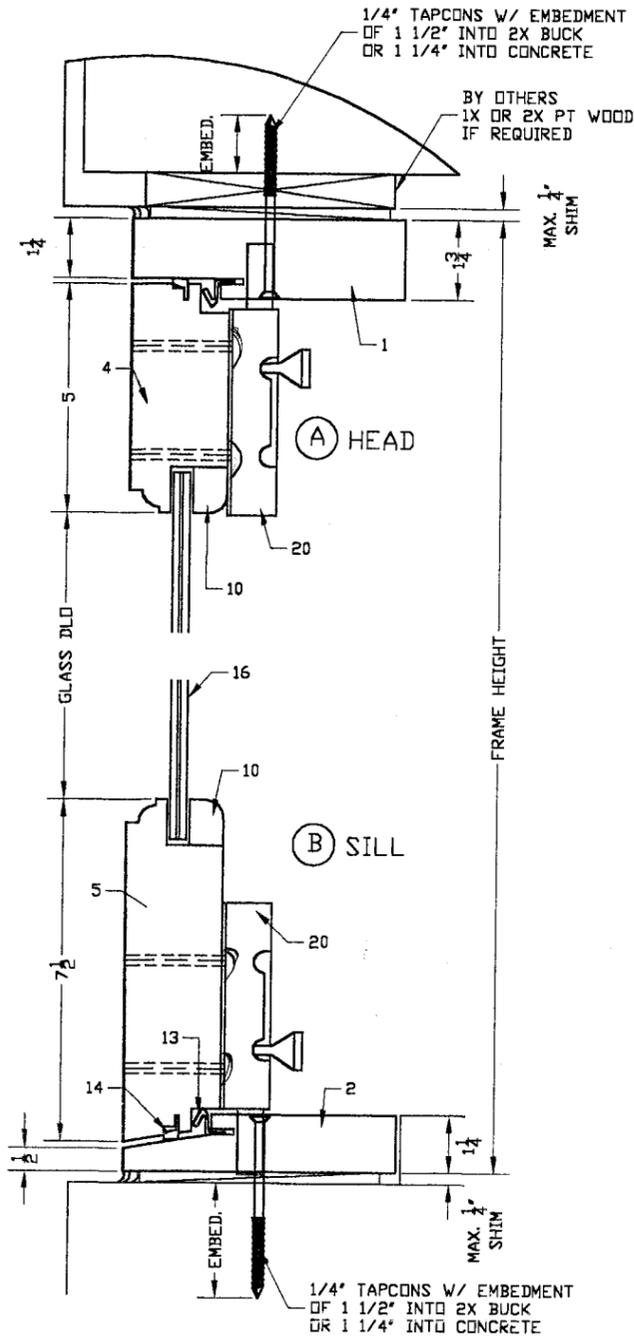
PRODUCT REVISED
 as complying with the Florida
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 Expiration Date OCT. 7, 2007

By *Manuel Perez*
 Miami Dade Product Control
 Division

Drawing Number
 05-310

Sheet
 2 of 11

MODEL A - ELLIPSE FRENCH SWING WINDOW
 DESIGNED LOADS = +53 PSF, -70 PSF



GLASS DESCRIPTION:

- 1- GLASSLAM SAFETY PLUS I - MIAMI-DADE NDA 00-0524.06
 (1) 3/16" ANNEALED GLASS SHEET +
 (1) .063" RESIN BY GLASSLAM +
 (1) .010" SAFETY-PLUS POLYESTER INTERLAYER +
 (1) .063" RESIN BY GLASSLAM +
 (1) 3/16" ANNEALED GLASS SHEET
 2- GLAZING METHOD:
 GLASS GLAZED WITH SILICONE DOW CORNING #995 0.9 X .051 THICK OVER A 3/4" GLASS BITE.
 1 X 3/4" WOOD BEAD WAS CONNECTED TO THE RAILS & STILES WITH #8X 1 1/2" WOOD SCREWS.
 BOTTOM RAIL - (5) SCREWS AT 5" OC
 TOP RAIL - (5) SCREWS AT 6 1/2" OC
 LOCK STILE - (11) SCREWS AT 7 1/2" OC
 HINGE STILE - (10) SCREWS AT 7 1/8" OC

FRAME & PANEL GENERAL NOTES

- 1- FRAME ASSEMBLY NOTES:
 EACH SOLID MAHOGANY WOOD FRAME HEAD, SILL & JAMBS ARE 6" DEEP AND THE CORNERS ARE BUTT JOINED WITH WOOD GLUE AND FASTENED WITH (4) #14X3" WOOD SCREWS IN EACH CORNER.
- 2- PANEL ASSEMBLY NOTES:
 EACH SOLID MAHOGANY WOOD STILE & RAIL IS 2 1/8" DEEP AND THE CORNERS, 1/2" THICK X3"X3" TENDON AND WOOD GLUE JOINT.
- 3- INSTALLATION SEALANT NOTES:
 THE FRAME AND ALL EXPOSED INSTALLATION FASTENERS MUST BE PROPERLY SEALED WITH 'GE' STOCK GE012A SILICONE.

MANUFACTURER:
Sabana Windows

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PRODUCT:
Mahogany Impact Casement Window

Engineering:
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SEP 28 2005
 Engineer Seal
 Pedro De Figueredo
 PE 52609

Date: 9/27/05
 Scale: NA
 Design by: PPMF

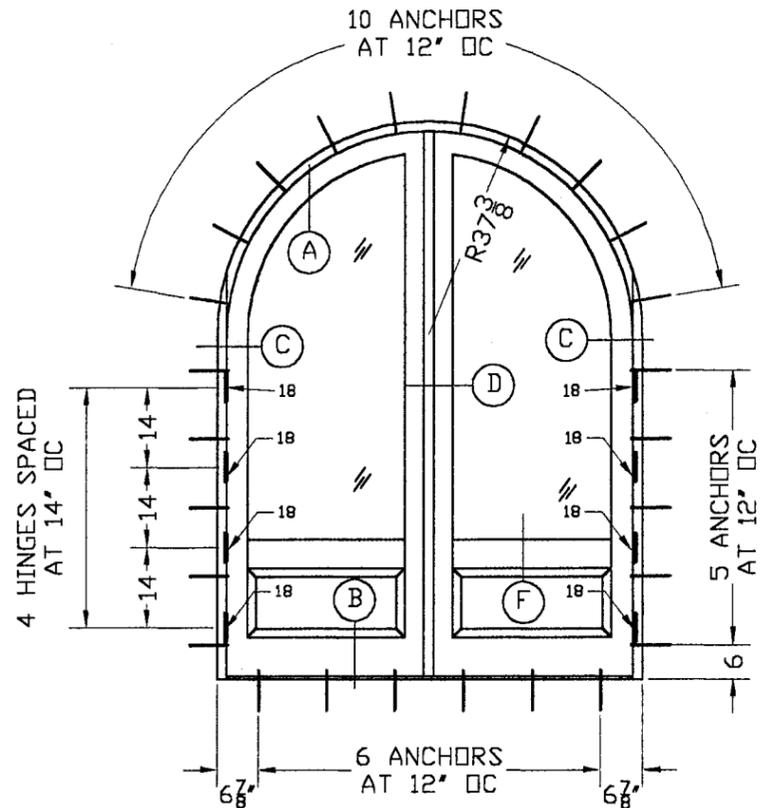
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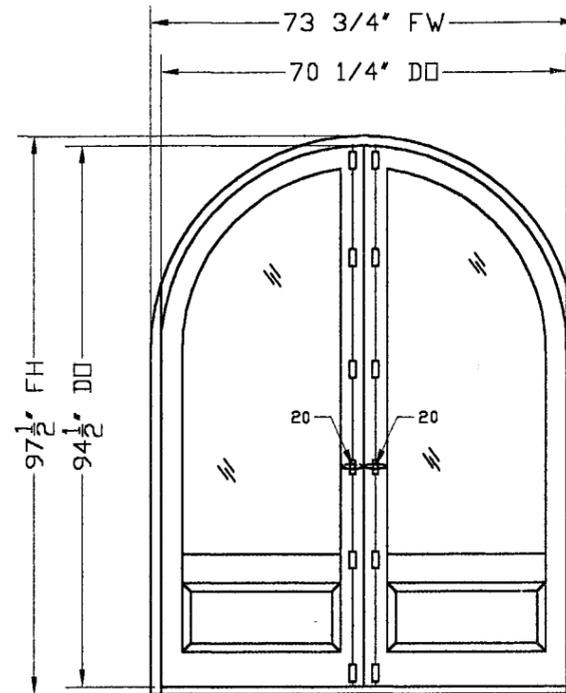
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Sheet
 3 of 11

OUTSIDE ELEVATION



INSIDE ELEVATION



MODEL B - FULL ARCHED FRENCH SWING-OUT WINDOW
DESIGNED LOADS = +53 PSF, -70 PSF

MAX. FRAME SIZE = 73 3/4" X 97 1/2" X 6" DEEP FRAME
MAX. PANEL SIZE = 36 5/16" X 95 7/16" X 2 1/8" DEEP
MAX. GLASS SIZE = 27 1/4" X 84 1/4" X .511" THICK
MAX. GLASS DLO = 25 3/4" X 82 3/4"
WATER TEST PRESSURE: ±8 PSF (53, 33 DP)

INSTALLATION NOTES:
1- ANCHOR: 1/4" TAPCON BY ELCO
SUBSTRATUM EMBEDMENT
WOOD (SG)=.55 1 1/2"
CONCRETE (3320 psi) 1 1/4"
MASONRY BLOCK 1 1/4"
2- QUANTITY & SPACING AS PER ELEVATION
3- 1X OR 2X WOOD BUCK TO BE DESIGNED BY OTHERS FOR IMPOSED LOADS.

SEE SHEET 5 OF 11 FOR DETAILS

BILL OF MATERIALS			
ITEM#	DESCRIPTION	SIZE	MATERIAL & REMARKS
1	FRAME HEADER	1.75' x 6.00' x 1.50'	MAHOGANY WOOD
2	FRAME SILL	1.25' x 6.00' x 0.50'	MAHOGANY WOOD
3	FRAME JAMB	1.75' x 6.00' x 1.25'	MAHOGANY WOOD
4	PANEL TOP RAIL	2.13' x 5.00' x 3.25'	MAHOGANY WOOD
5	PANEL BOTTOM RAIL	2.13' x 7.50' x 6.13'	MAHOGANY WOOD
6	PANEL HINGE STILE	2.13' x 5.00' x 3.38'	MAHOGANY WOOD
7	PANEL LOCK STILE	2.13' x 5.00' x 4.13'	MAHOGANY
8	RAISED PANEL HOR. STILE	2.13' x 6.00' x 5.00'	MAHOGANY
9	MAHOGANY WOOD BEAD	1.00' x 0.75'	Attached w/ #8x 1 1/2" wd screws
10	MAHOGANY WOOD BEAD	0.75' x 1.00'	Attached w/ #8x 1 1/2" wd screws
11	MAHOGANY WOOD ASTRAGAL	1.13' x 1.75'	Attached w/ #10x 2" wd screws at 12" oc
12	CLOSED CELL FOAM STRIP	0.5' x .625'	FOAM TAPE FULL LENGTH OF SILL
13	G' LON SEAL @ FRAME/PANELS	.58' x 0.65'	SCHLEGEL #QDS-650
14	G' LON SEAL @ PANELS RAILS	.335' x .336'	SCHLEGEL #QEZ320
15	WOOD RAISED PANEL	1.50' x 27.5' x 12'	SOLID PINE
16	1/2" LAMINATED GLASS	.511" THICK	GLASSLAM
17	GLAZING CLEAR SILICONE	.90x.051	DOW CORNING 995

HARDWARE SCHEDULE	
HINGES <18>	<4 HINGES/JAMB> 2 3/4" w X 4" h X .068" HINGES @ 14" OC CONNECTED TO PANEL AND FRAME W/ (8) #10X 1 1/2" WS
ACTIVE & INACTIVE STILE:	<20> CENTER HANDLE ROUSTIQUE ARTICLE CODE 042100 MODEL RY 59 FASTENED W/ (4) #10X 1 1/4" (7) 2.4" X 1.656" CLASSIC GUIDES (STEEL) W/ (2) #10X 1 1/4" EXCEPT TOP AND BOTTOM HAD (2) 1/8" X 3" MS W/ DOUBLE NUTS. THE STRIKE PLATE WAS 1/4" THICK STEEL. 1/2" LOCKING THROW WAS A .625" DIAM SEMI-TUBE X .154" X 35" LONG AT BOTTOM AND 57.5" LONG AT TOP. ALSO, THE TOP AND BOTTOM ENDS (3") WERE FILLED WITH A WELDED 1/8" WIDE STEEL PLATE.

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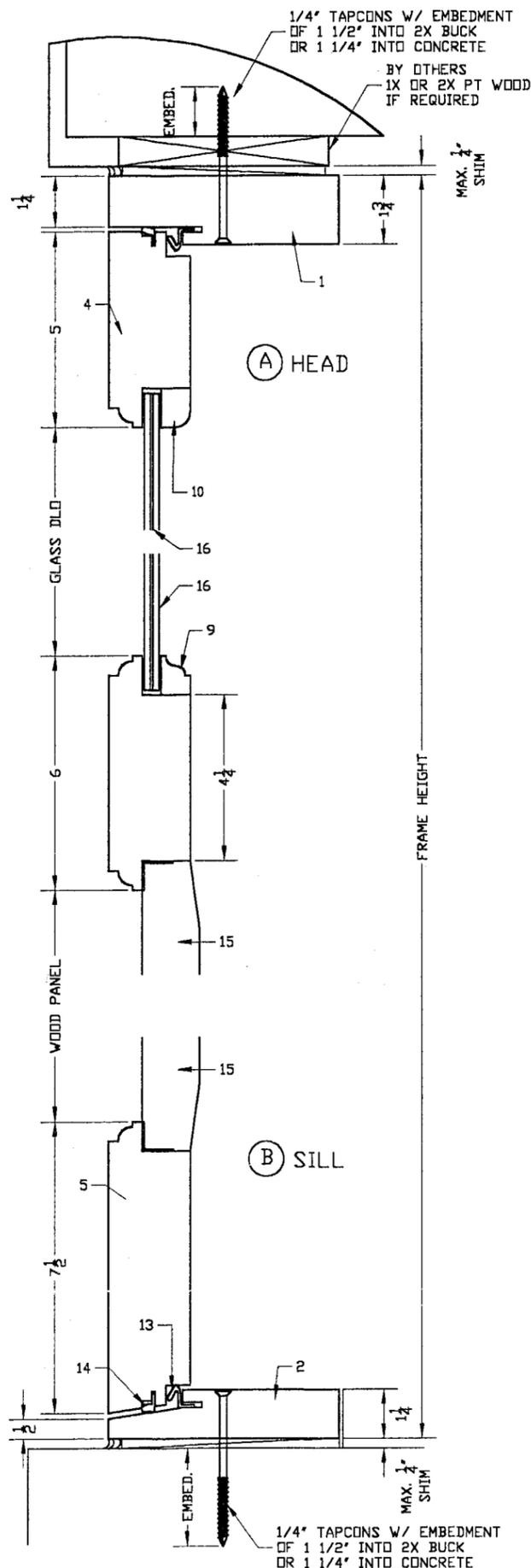
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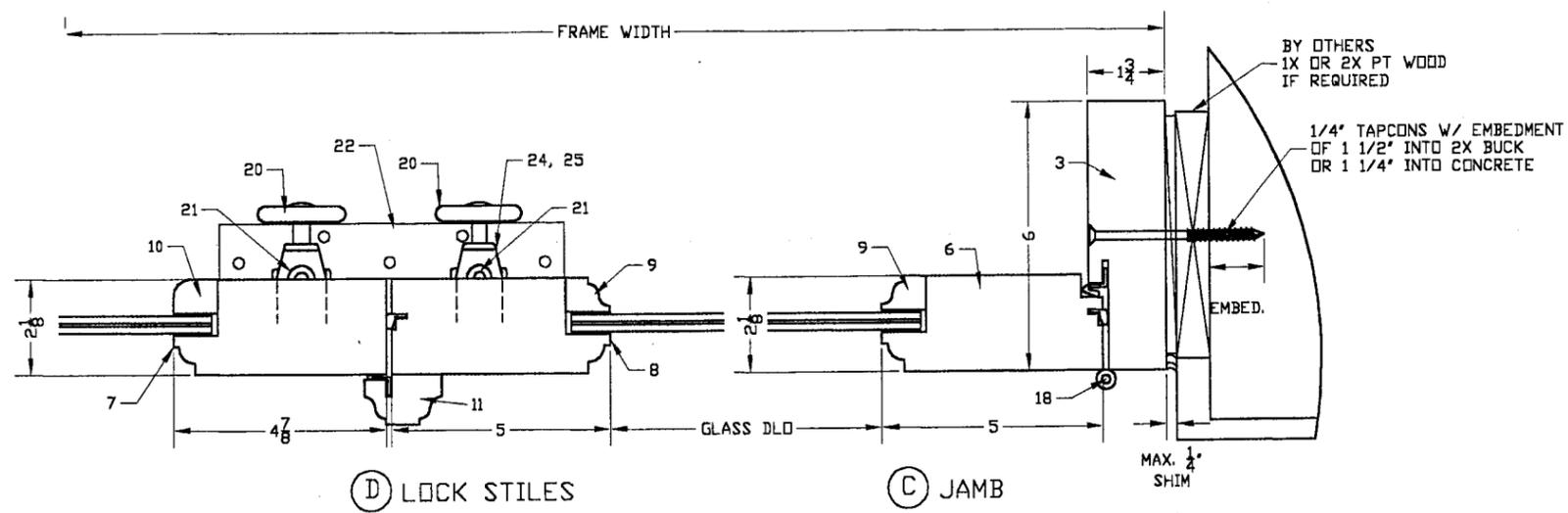
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Sheet
4 of 11



MODEL B - FULL ARCHED FRENCH SWING-OUT WINDOW
DESIGNED LOADS = +53 PSF, -70 PSF



GLASS DESCRIPTION:

1- GLASSLAM SAFETY PLUS I - MIAMI-DADE NDA 00-0524.06
 (1) 3/16" ANNEALED GLASS SHEET +
 (1) .063" RESIN BY GLASSLAM +
 (1) .010" SAFETY-PLUS POLYESTER INTERLAYER +
 (1) .063" RESIN BY GLASSLAM +
 (1) 3/16" ANNEALED GLASS SHEET

2- GLAZING METHOD:
 GLASS GLAZED WITH SILICONE DOW CORNING #995 0.9 X .051 THICK OVER A 3/4" GLASS BITE.
 1 X 3/4" WOOD BEAD WAS CONNECTED TO THE RAILS & STILES WITH #8X 1 1/2" WOOD SCREWS.

3- WOOD PANEL:
 27 1/2" X 12 X 1 1/2" THICK SOLID PINE WOOD PANEL PLACED IN A 3/4" X 1 1/4" BEDDING IN RAILS AND STILES AND A 3/4" X 3/4" X .051" THICK CONTINUOUS GE WINDOW & WINDOW STOCK #GE12A CLEAR SILICONE BEAD.

FRAME & PANEL GENERAL NOTES

1- FRAME ASSEMBLY NOTES:
 EACH SOLID MAHOGANY WOOD FRAME HEAD, SILL & JAMBS ARE 6" DEEP AND THE CORNERS ARE BUTT JOINED WITH WOOD GLUE AND FASTENED WITH (4) #14X3" WOOD SCREWS IN EACH CORNER.

2- PANEL ASSEMBLY NOTES:
 EACH SOLID MAHOGANY WOOD STILE & RAIL IS 2 1/8" DEEP AND THE CORNERS, 1/2" THICK X3" X3" TENON AND WOOD GLUE JOINT.

3- INSTALLATION SEALANT NOTES:
 THE FRAME AND ALL EXPOSED INSTALLATION FASTENERS MUST BE PROPERLY SEALED WITH "GE" STOCK GE012A SILICONE.

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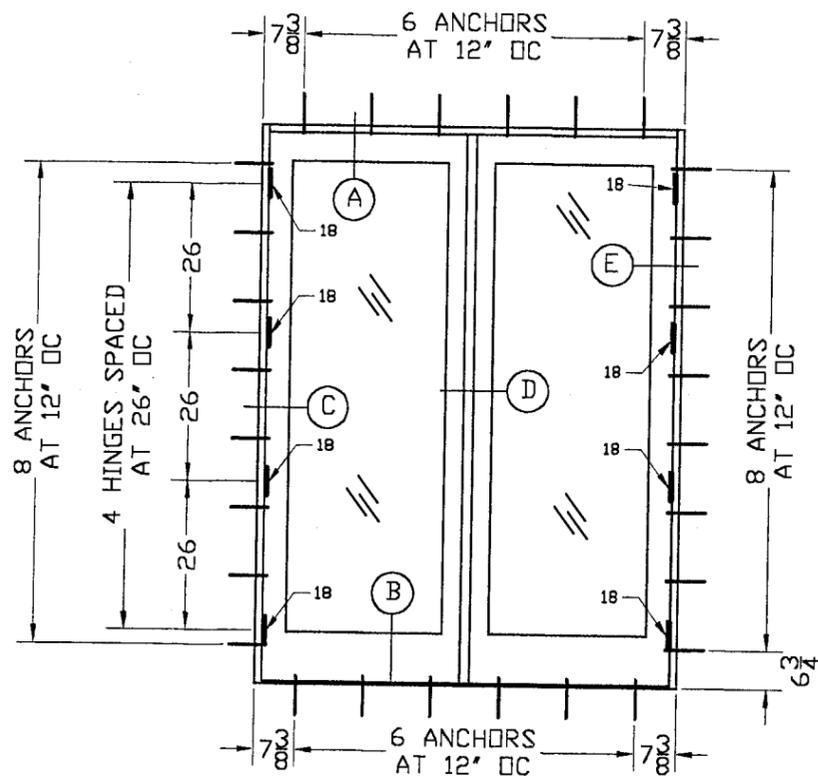
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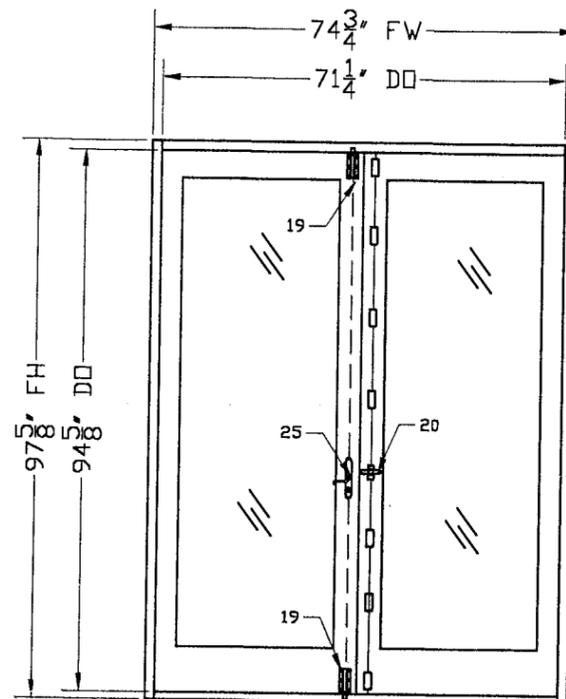
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Sheet
5 of 11

OUTSIDE ELEVATION



INSIDE ELEVATION



MODEL C - SQUARE FRENCH SWING-OUT WINDOW
 DESIGNED LOADS = +53 PSF, -70 PSF

MAX. FRAME SIZE = 74 3/4" X 97 5/8" X 6" DEEP FRAME
 MAX. PANEL SIZE = 35 15/16" X 95 7/16" X 2 1/8" DEEP
 MAX. GLASS SIZE = 26 3/4" X 84 1/4" X .511" THICK
 WATER TEST PRESSURE: ±8 PSF (53.33 DP)

INSTALLATION NOTES:

- ANCHOR: 1/4" TAPCON BY ELCO
 SUBSTRATUM EMBEDMENT
 WOOD (SG) = .55 1 1/2"
 CONCRETE (3320 psi) 1 1/4"
 MASONRY BLOCK 1 1/4"
- QUANTITY & SPACING AS PER ELEVATION
- 1X OR 2X WOOD BUCK TO BE DESIGNED BY OTHERS FOR IMPOSED LOADS.

SEE SHEET 7 OF 11 FOR DETAILS

MANUFACTURER:

**Sabana
Windows**

6157 NW 167TH STREET
 UNIT F-25
 MIAMI LAKES, FLORIDA
 33015
 PH: (305) 825-1256
 FAX: (305) 825-3805

PRODUCT:

**Mahogany
Impact
Casement
Window**

Engineering:

EngCo Inc.

CA 8116
 6971 W. Sunrise Blvd. 104
 Plantation, Fl. 33313
 Tel.: (954) 585-0304
 Fax: (954) 585-0305

BILL OF MATERIALS

ITEM#	DESCRIPTION	SIZE	MATERIAL & REMARKS
1	FRAME HEADER	1.75' x 6.00' x 1.25'	MAHOGANY WOOD
2	FRAME SILL	1.25' x 6.00' x 0.63'	MAHOGANY WOOD
3	FRAME JAMB	1.75' x 6.00' x 1.25'	MAHOGANY WOOD
4	PANEL TOP RAIL	2.13' x 5.00' x 3.50'	MAHOGANY WOOD
5	PANEL BOTTOM RAIL	2.13' x 7.50' x 5.63'	MAHOGANY WOOD
6	PANEL HINGE STILE	2.13' x 5.00' x 3.94'	MAHOGANY WOOD
7	PANEL LOCK STILE	2.13' x 5.00' x 4.00'	MAHOGANY
8	-	-	-
9	MAHOGANY WOOD BEAD	1.00' x 0.75'	Attached w/ #8x 1 1/2" wd screws
10	MAHOGANY WOOD BEAD	0.75' x 1.00'	Attached w/ #8x 1 1/2" wd screws
11	MAHOGANY WOOD ASTRAGAL	1.13' x 1.75'	Attached w/ #10x 2" wd screws at 12" oc
12	CLOSED CELL FOAM STRIP	0.5' x .625'	FOAM TAPE FULL LENGTH OF SILL
13	Q' LON SEAL @ FRAME/PANELS	.58' x 0.65'	SCHLEGEL #QDS-650
14	Q' LON SEAL @ PANELS RAILS	.335' x .336'	SCHLEGEL #QEZ320
15	SEALANT - CLEAR SILICONE		GE STOCK #012A
16	1/2" LAMINATED GLASS	.511" THICK	GLASSLAM
17	GLAZING CLEAR SILICONE	.90x.051	DOW CORNING 995

HARDWARE SCHEDULE

HINGES <18>
 (4 HINGES/JAMB) JARDINIER MASSARD, FRANCE, #23 SPACED AT 26" OC ATTACHED TO PANEL W/ (8) #10X 1 1/2" WS

ACTIVE STILE:
 CENTER HANDLE <20> ROUSTIQUE ARTICLE CODE 042100 MODEL RY 59 FASTENED W/ (4) #10X 1 1/4"
 (7) 2.4" X 1.656" CLASSIC GUIDES (STEEL) W/ (2) #10X 1 1/4" EXCEPT TOP AND BOTTOM HAD (2) 1/8" X 3" MS W/
 DOUBLE NUTS. THE STRIKE PLATE WAS 1/4" THICK STEEL.
 1/2" LOCKING THROW WAS A .625" DIAM SEMI-TUBE X .154" X 35" LONG AT BOTTOM AND 57.5" LONG AT TOP. ALSO, THE
 TOP AND BOTTOM ENDS (3") WERE FILLED WITH A WELDED 1/8" WIDE STEEL PLATE.

INACTIVE STILE:
 <19> NATIONAL .611" DIA. THROW CONNECTED WITH (6) 1/4"-20 SS MS AND NUTS.
 <25> SCHELEGEL MULTI-BOLT LOCK WITH BRASS KEEP SET, 52 MM BA B' FULL LENGTH STAINLESS.

SEP 28 2005

Engineer Seal
 Pedro De Figueiredo
 PE 52609

Date: 9/27/05
 Scale: NA
 Design by: PPMF

Miami Dade Office:

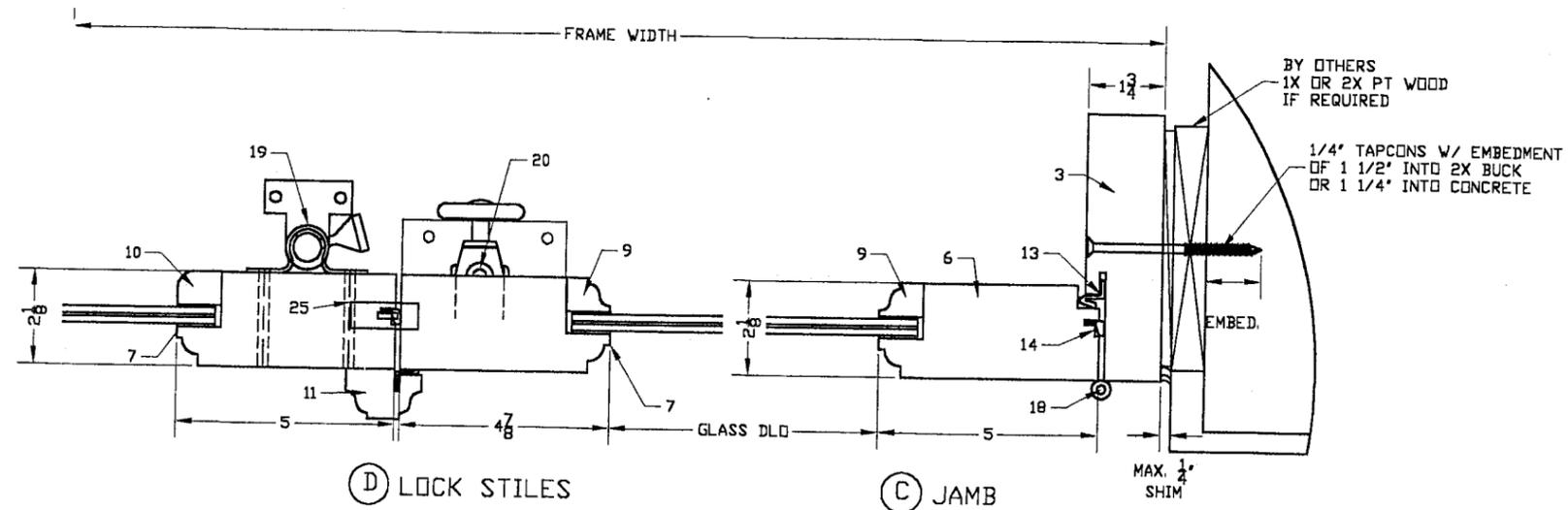
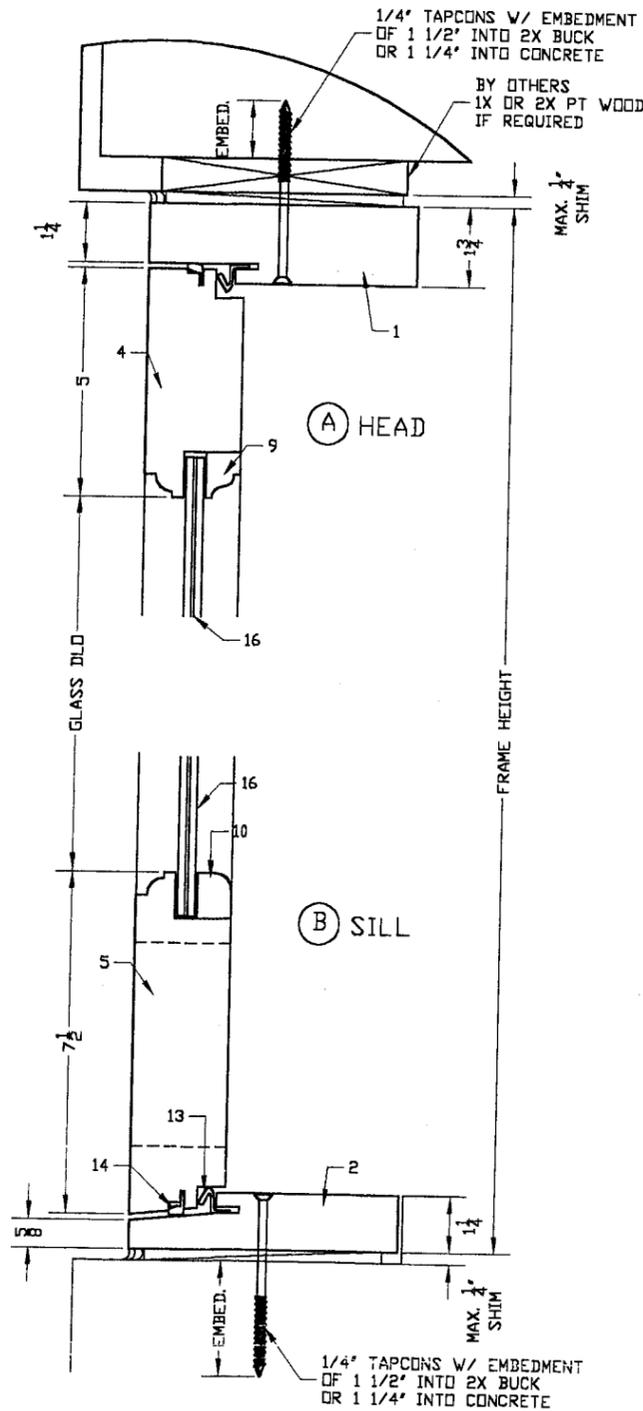
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 05-1006-02
 Expiration Date OCT 7 2007

By *Manuel Perez*
 Miami Dade Product Control
 Division

Drawing Number
 05-310

Sheet
 6 of 11

MODEL C - SQUARE FRENCH SWING-OUT WINDOW
 DESIGNED LOADS = +53 PSF, -70 PSF



GLASS DESCRIPTION:

1- GLASSLAM SAFETY PLUS I - MIAMI-DADE NOA 00-0524. 06
 (1) 3/16" ANNEALED GLASS SHEET +
 (1) .063" RESIN BY GLASSLAM +
 (1) .010" SAFETY-PLUS POLYESTER INTERLAYER +
 (1) .063" RESIN BY GLASSLAM +
 (1) 3/16" ANNEALED GLASS SHEET

2- GLAZING METHOD:
 GLASS GLAZED WITH SILICONE DOW CORNING #995 0.9 X .051 THICK OVER A 3/4" GLASS BITE.

1 X 3/4" WOOD BEAD WAS CONNECTED TO THE RAILS & STILES WITH #8X 1 1/2" WOOD SCREWS.

BOTTOM RAIL - (5) SCREWS AT 5" OC
 TOP RAIL - (5) SCREWS AT 5" OC
 LOCK STILE - (12) SCREWS AT 7 1/2" OC
 HINGE STILE - (12) SCREWS AT 7 1/2" OC

IMPACT GLASS
 #8X1 1/2" WOOD SCREWS

IMPACT GLASS
 #8X1 1/2" WOOD SCREWS

3/4" BITE

3/4" BITE

FRAME & PANEL GENERAL NOTES

1- FRAME ASSEMBLY NOTES:
 EACH SOLID MAHOGANY WOOD FRAME HEAD, SILL & JAMBS ARE 6" DEEP AND THE CORNERS ARE BUTT JOINED WITH WOOD GLUE AND FASTENED WITH (4) #14X3" WOOD SCREWS IN EACH CORNER.

2- PANEL ASSEMBLY NOTES:
 EACH SOLID MAHOGANY WOOD STILE & RAIL IS 2 1/8" DEEP AND THE CORNERS, 1/2" THICK X3" X3" TENON AND WOOD GLUE JOINT.

3- INSTALLATION SEALANT NOTES:
 THE FRAME AND ALL EXPOSED INSTALLATION FASTENERS MUST BE PROPERLY SEALED WITH "GE" STOCK GE012A SILICONE.

MANUFACTURER:
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 MIAMI LAKES, FLORIDA 33015
 PH: (305) 825-1256
 FAX: (305) 825-3805

PRODUCT:
Mahogany Impact Casement Window

Engineering:
EngCo Inc.
 CA 8116
 6971 W. Sunrise Blvd. 104
 Plantation, FL 33313
 Tel.: (954) 585-0304
 Fax: (954) 585-0305

SEP 28 2005

Engineer Seal
 Pedro De Figueiredo
 PE 52609

Date: 9/27/05
 Scale: NA
 Design by: PPMF

Miami Dade Office:

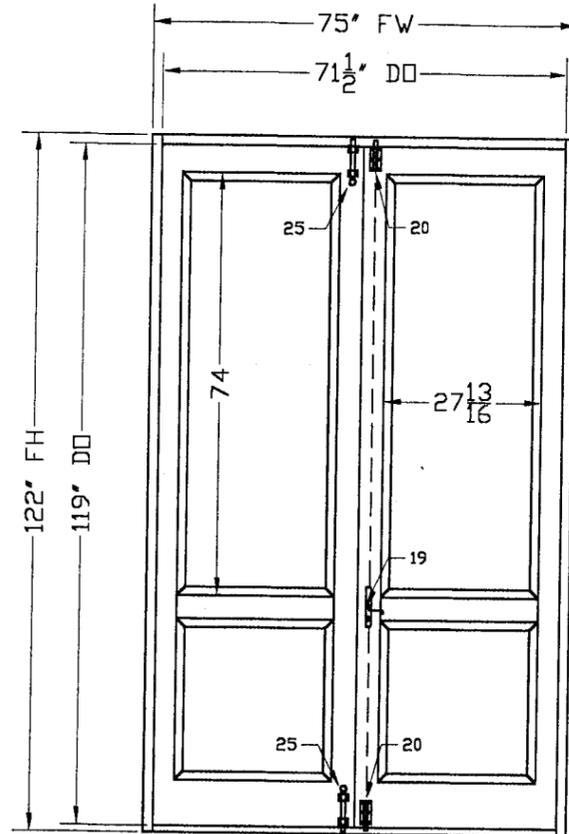
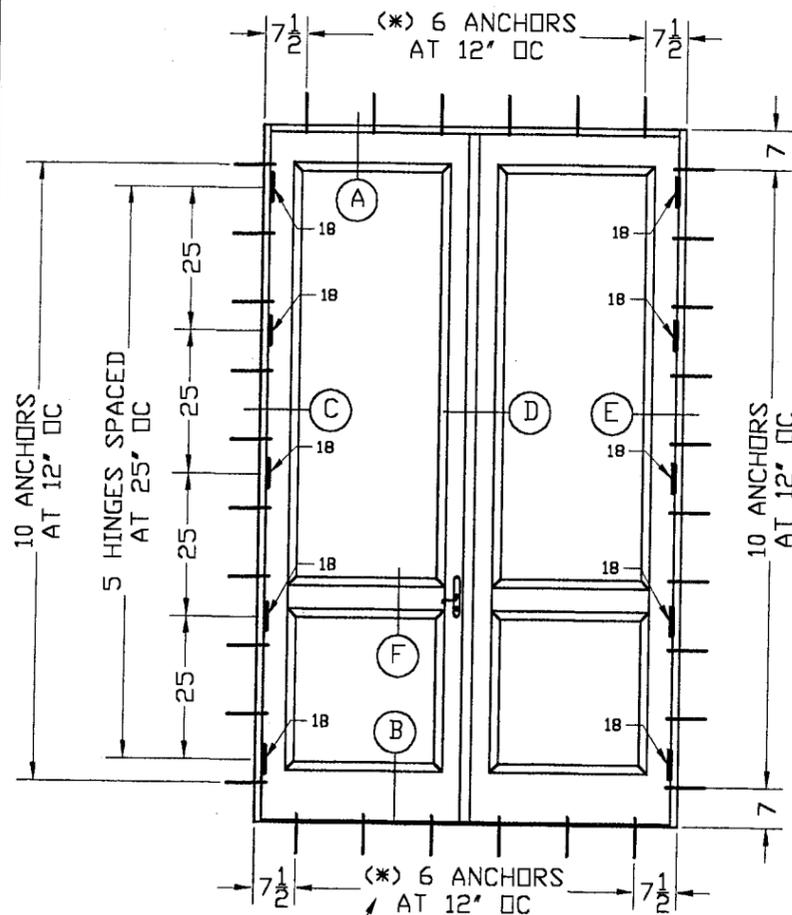
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 as complying with the Florida Building Code
 Acceptance No 05-1006.02
 Expiration Date 09.7.2007

By *Manuel Perez*
 Miami Dade Product Control Division

Drawing Number
 05-310

Sheet
 7 of 11

OUTSIDE ELEVATION



INSIDE ELEVATION

MODEL D - SOLID WOOD PANEL FRENCH SWING-OUT WINDOW
DESIGNED LOADS = +53 PSF, -70 PSF

MAX. FRAME SIZE = 75' X 122' X 6' DEEP FRAME
MAX. PANEL SIZE = 35 15/16' X 120 5/16' X 2 1/8' DEEP
MAX. SOLID RAISED PANEL = 27 13/16 X 74 X 1 1/2' THICK
WATER TEST PRESSURE: ±8 PSF (53.33 DP)

INSTALLATION NOTES:

- 1- ANCHOR: 1/4" TAPCON BY ELCO
- SUBSTRATUM EMBEDMENT
- WOOD (SG) = .55 1 1/2"
- CONCRETE (3320 psi) 1 1/4"
- MASONRY BLOCK 1 1/4"
- 2- QUANTITY & SPACING AS PER ELEVATION
- 3- 1X OR 2X WOOD BUCK TO BE DESIGNED BY OTHERS FOR IMPOSED LOADS.

SEE SHEET 9 OF 11 FOR DETAILS

(* INCREASE AMOUNT OF ANCHORS TO 7 AT 10 1/2" OC WHEN HEADER/SILL FRAMING ARE ANCHORED INTO CONCRETE WITH 1X WOOD BUCK

BILL OF MATERIALS

ITEM#	DESCRIPTION	SIZE	MATERIAL & REMARKS
1	FRAME HEADER	1.75' x 6.00' x 1.25'	MAHOGANY WOOD
2	FRAME SILL	1.25' x 6.00' x 0.50'	MAHOGANY WOOD
3	FRAME JAMB	1.75' x 6.00' x 1.25'	MAHOGANY WOOD
4	PANEL TOP RAIL	2.13' x 5.25' x 4.25'	MAHOGANY WOOD
5	PANEL BOTTOM RAIL	2.13' x 9.75' x 9.50'	MAHOGANY WOOD
6	PANEL HINGE STILE	2.13' x 4.89' x 3.89'	MAHOGANY WOOD
7	PANEL LOCK STILE	2.13' x 5.13' x 4.13'	MAHOGANY
8	RAISE PNL HDR. STILE	2.13' x 6.00' x 4.00'	MAHOGANY
9	MAHOGANY WOOD BEAD	1.00' x 0.75'	Attached w/ #8x 1 1/2" wd screws
10	MAHOGANY WOOD BEAD	0.75' x 1.00'	Attached w/ #8x 1 1/2" wd screws
11	MAHOGANY WOOD ASTRAGAL	1.13' x 1.75'	Attached w/ #10x 2" wd screws at 12" oc
12	CLOSED CELL FOAM STRIP	0.5' x .625'	FOAM TAPE FULL LENGTH OF SILL
13	Q' LON SEAL @ FRAME/PANELS	.58' x 0.65'	SCHLEGEL #QDS-650
14	Q' LON SEAL @ PANELS RAILS	.335' x .336'	SCHLEGEL #QEZ320
15	RAISED PANEL	27.8' x 74' x 1.5' thk	SOLID PINE
16	SEALANT - CLEAR SILICONE		GE STOCK #012A
17	GLAZING CLEAR SILICONE	.75x.50x.051 Thk	GE STOCK #012A

HARDWARE SCHEDULE

- <18> HINGES:
<4 HINGES/JAMB> JARDINIER MASSARD, FRANCE, #23 SPACED AT 26" OC ATTACHED TO PANEL W/ <8> #10X 1 1/2" WS INACTIVE STILE;
- <25> JARDINIER MASSARD, FRANCE, VERROUS A ENTAILLER REF. 321 W/ .312" DIA. X .567 THROW AT TOP/BOTTOM.
- ACTIVE STILE:
<19> SCHELEGEL MULTI-BOLT LOCK WITH BRASS KEEP SET, 52 MM BA 10' FULL LENGTH STAINLESS. THE STRIKE PLATE WAS 1/4" THICK STEEL.
- <20> NATIONAL .611" DIA. THROW CONNECTED WITH <6> 1/4-20 SS MS AND NUTS. IVES MODEL 453 WITH <4> 1/4-20 SS MS AND NUTS.

MANUFACTURER:
Sabana Windows

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MIAMI LAKES, FLORIDA
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PRODUCT:
Mahogany Impact Casement Window

Engineering:
EngCo Inc.

CA 8116
6971 W. Sunrise Blvd. 104
Plantation, Fl. 33313
Tel.: (954) 585-0304
Fax: (954) 585-0305

SEP 28 2005

Engineer Seal
Pedro De Figueiredo
PE 52609

Date: 9/27/05
Scale: NA
Design by: PPMF

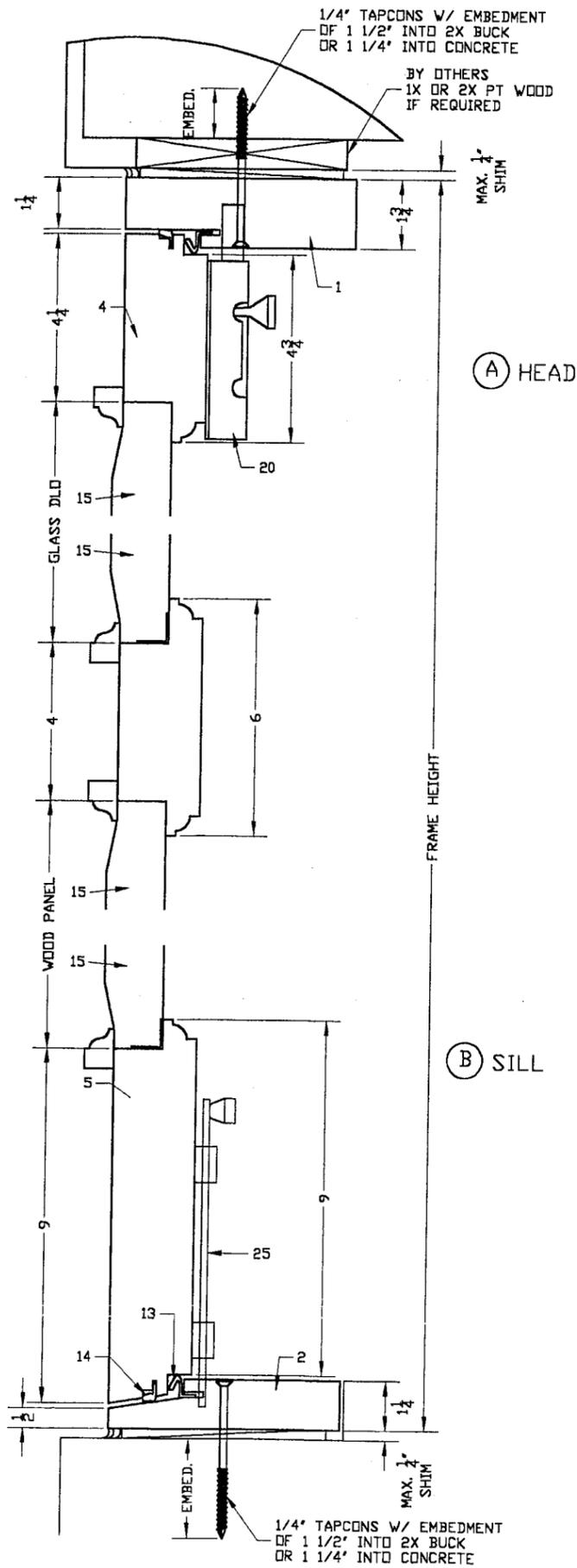
Miami Dade Office:

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-1006.02
Expiration Date Oct. 7, 2007
By: *Manuel J. Lopez*
Miami Dade Product Control
Division

Drawing Number
05-310

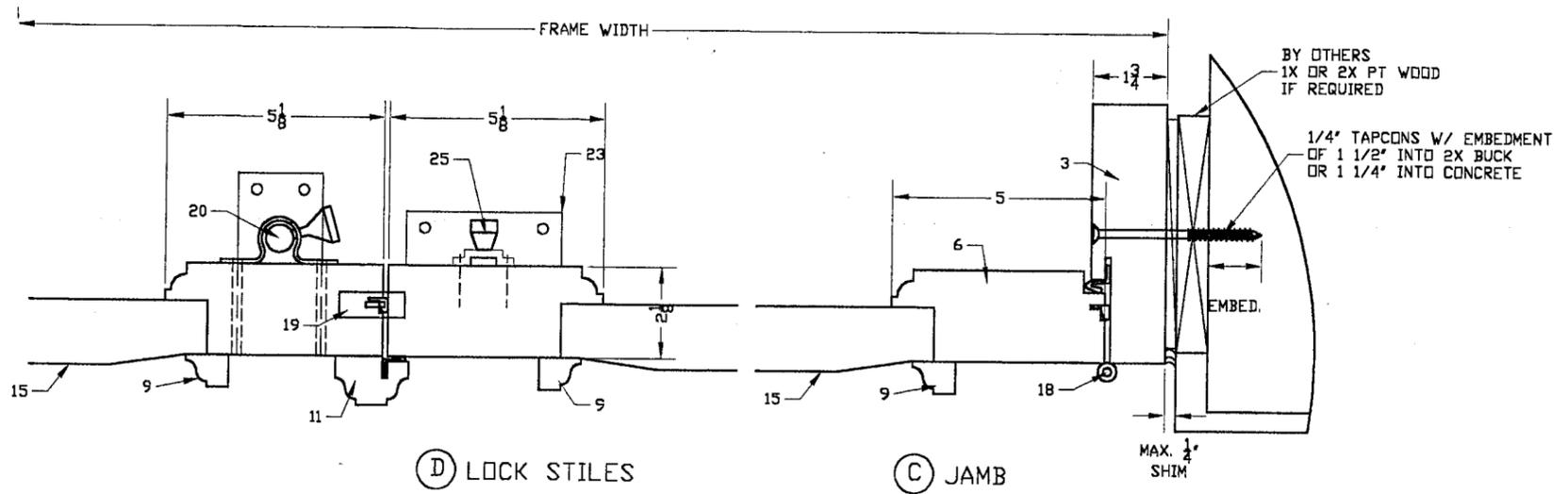
Sheet
8 of 11

MODEL D - SOLID WOOD PANEL FRENCH SWING-OUT WINDOW
 DESIGNED LOADS = +53 PSF, -70 PSF



(A) HEAD

(B) SILL



(D) LOCK STILES

(C) JAMB

WOOD PANELS DESCRIPTION:

TOP: 27 13/16" X 74" X 1 1/2" THICK SOLID PINE WOOD PANEL PLACED IN A 3/4" X 1 1/4" BEDDING IN RAILS AND STILES AND A 3/4" X 3/4" X 1/2" X .051" THICK CONTINUOUS GE WINDOW & WINDOW STOCK # GE012A CLEAR SILICONE BEAD. A 1/2 X 13/16 WOOD MOULDING CONNECTED WITH (6) #8X1 1/2" WOOD SCREWS PER STILE AND WITH (3) #8X 1 1/2" WOOD SCREWS PER RAIL.

BOTTOM 27 13/16" X 28 15/16" X 1 1/2" THICK SOLID PINE WOOD PANEL PLACED IN A 3/4" X 1 1/4" BEDDING IN RAILS AND STILES AND A 3/4" X 3/4" X 1/2" X .051" THICK CONTINUOUS GE WINDOW & WINDOW STOCK # GE012A CLEAR SILICONE BEAD. A 1/2 X 13/16" WOOD MOULDING CONNECTED WITH (4) #8X1 1/2" WOOD SCREWS PER STILE AND WITH (4) #8X 1 1/2" WOOD SCREWS PER RAIL.

FRAME & PANEL GENERAL NOTES

1- FRAME ASSEMBLY NOTES:
 EACH SOLID MAHOGANY WOOD FRAME HEAD, SILL & JAMBS ARE 6" DEEP AND THE CORNERS ARE BUTT JOINED WITH WOOD GLUE AND FASTENED WITH (4) #14X3" WOOD SCREWS IN EACH CORNER.

2- PANEL ASSEMBLY NOTES:
 EACH SOLID MAHOGANY WOOD STILE & RAIL IS 2 1/8" DEEP AND THE CORNERS, 1/2" THICK X3" X3" TENON AND WOOD GLUE JOINT.

3- INSTALLATION SEALANT NOTES:
 THE FRAME AND ALL EXPOSED INSTALLATION FASTENERS MUST BE PROPERLY SEALED WITH "GE" STOCK GE012A SILICONE.

MANUFACTURER:
Sabana Windows
 6157 NW 167TH STREET
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PRODUCT:
Mahogany Impact Casement Window

Engineering:
EngCo Inc.
 CA 8116
 6971 W. Sunrise Blvd. 104
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SEP 28 2005
 Engineer Seal
 Pedro De Figueiredo
 PE 52609

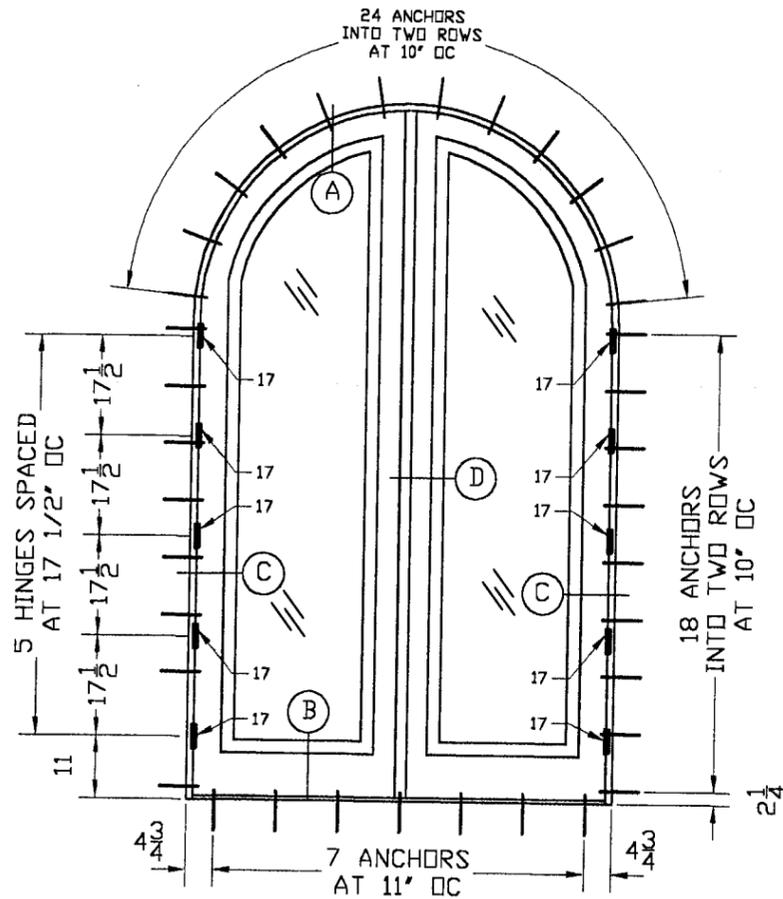
Date: 9/27/05
 Scale: NA
 Design by: PPMF

Miami Dade Office:
PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No **05-1006-07**
 Expiration Date **OCT 7, 2007**
 By
 Miami Dade Product Control Division

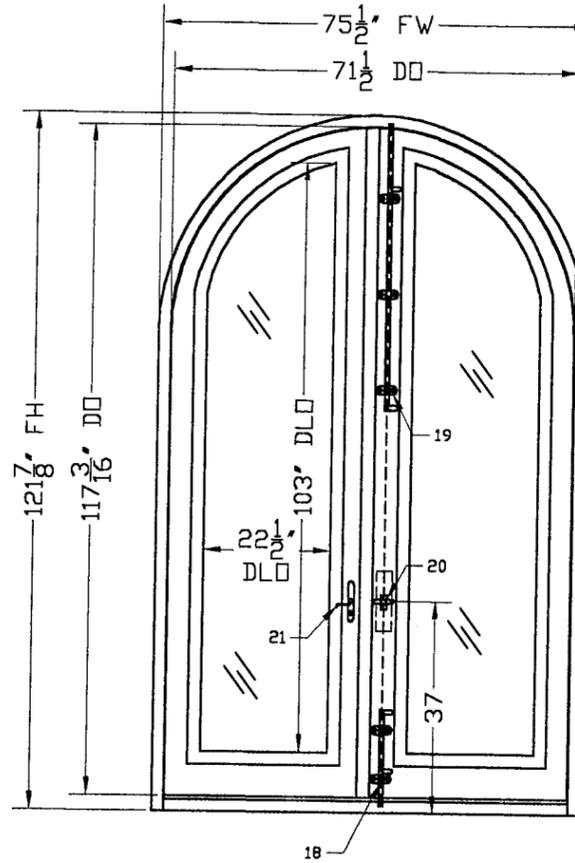
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Sheet
9 of 11

OUTSIDE ELEVATION



INSIDE ELEVATION



MODEL E - FULL ARCHED FRENCH SWING-OUT WINDOW

DESIGNED LOADS = +75 PSF, -83 PSF

MAX. FRAME SIZE = 74 1/2' X 121 7/8' X 6' DEEP FRAME
 MAX. PANEL SIZE = 37 1/2' X 119 3/4' X 2 1/2' DEEP
 MAX. GLASS SIZE = 24 1/2' X 105' X .57" THICK
 MAX. GLASS DLO = 22 1/2' X 103'
 WATER TEST PRESSURE: ±11.25 PSF (75 DP)

INSTALLATION NOTES:

- ANCHOR: 1/4" TAPCON BY ELCO
 SUBSTRATUM EMBEDMENT
 WOOD (SG) = 55 1 1/2"
 CONCRETE (3320 psi) 1 1/4"
 MASONRY BLOCK 1 1/4"
- QUANTITY & SPACING AS PER ELEVATION
- 1X OR 2X WOOD BUCK TO BE DESIGNED BY OTHERS FOR IMPOSED LOADS.

SEE SHEET 11 OF 11 FOR DETAILS

MANUFACTURER:
Sabana Windows

6157 NW 167TH STREET
 UNIT F-25
 MIAMI LAKES, FLORIDA 33015
 PH: (305) 825-1256
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PRODUCT:
Mahogany Impact Casement Window

Engineering:
EngCo Inc.

CA 8116
 6971 W. Sunrise Blvd. 104
 Plantation, FL 33313
 Tel.: (954) 585-0304
 Fax: (954) 585-0305

BILL OF MATERIALS

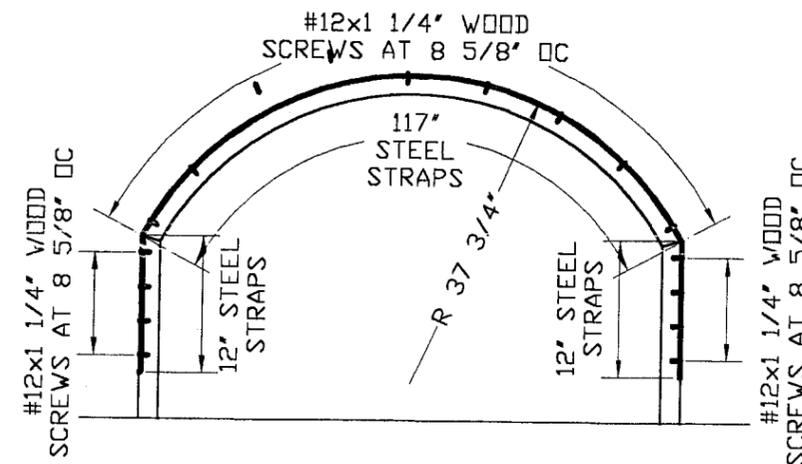
ITEM#	DESCRIPTION	SIZE	REMARKS
1	FRAME (ARCH HEADER)	2.00' x 6.00'	LAMINATED MAHOGANY
2	FRAME (JAMB)	2.00' x 6.00'	LAMINATED MAHOGANY
3	FRAME (SILL)	2.00' x 6.00'	LAMINATED MAHOGANY
4	FRAME (SILL BUMPER)	0.69' x 1.75'	LAMINATED MAHOGANY
5	SASH (ARCH RAIL)	2.60' x 6.62'	LAMINATED MAHOGANY
6	SASH (BOTTOM RAIL)	2.60' x 9.21'	LAMINATED MAHOGANY
7	SASH (HINGE RAIL)	2.60' x 6.50'	LAMINATED MAHOGANY
8	SASH (LOCK RAIL)	2.60' x 6.44'	LAMINATED MAHOGANY
9	SASH (INACTIVE RAIL)	2.60' x 6.44'	LAMINATED MAHOGANY
10	SASH (EXT. GLASS STOP)	2.25' x 1.69'	LAMINATED MAHOGANY
10A	SASH (INT. GLASS STOP)	2.25' x 1.69'	LAMINATED MAHOGANY
11	SASH (INT. ASTRAGAL)	2.25' x 2.06'	LAMINATED MAHOGANY
12	BOTTOM & HINGE REINF.	1.00' x 0.25'	STEEL
13	ASTRAGAL REINF.	0.63' x 0.63'	STEEL
14	LOCK RAIL REINF.	0.25' CHANNEL	STEEL
15	WEATHER STRIPPING	QEBD6650-B97	VINYL
16	WEATHER STRIPPING	QEZ-320-BRZ	VINYL

HARDWARE SCHEDULE

- <17> HINGES:
 (5 HINGES/JAMB) MADE BY SABANA WINDOWS INSTALLED AT 17 1/2" OC
 INACTIVE STILE:
 <19> & <18> SURFACE BOLTS MADE BY SABANA WINDOWS CONSISTED OF 50" (TOP) AND 16 3/4" (BOTTOM) LONG x .75" DIAMETER STEEL ROD WITH TWO 1" DIAMETER RINGS WELDED 3 1/2" AND 19 3/4" FROM END OF THE ROD. THE ROD WAS SUPPORTED BY THREE 2 X 3 1/8" X 1/4" THICK STEEL GUIDE PLATES WITH 1 3/8" RINGS WELDED AT TOP EACH PLATE TO GUIDE THE LOCKING ROD. THE ROD PENETRATED 1" THROUGH THE FRAME MOLDING. THE TOP MOST PLATE WAS CENTERED 1 3/4" FROM EDGE OF WINDOW
 <20> TWO POINT LOCK WITH 3/4" DIAMETER STEEL RODS EXTENDING 1" THROUGH FIX PANEL LOCK STILE AND INTO FRAME GOING THROUGH FRAME AND SASH LOCK REINFORCEMENT PLATES. THE LOCK WAS OPERATED BY A HANDLE AT AT 37" FROM BOTTOM OF WINDOW.
 ACTIVE STILE:
 <21> MUL-T-LOCK MODEL SERIES 700 LOCK, SINGLE LATCH ONLY.

ARCH STRAP CONSTRUCTION:

THE CURVE HEAD AND THE JAMBS WERE BUTT JOINED USING 1/4X3X1/2" TENDON AND GLUE. THE STEEL STRAP MADE OF 1/4X2X1/4" WAS ATTACHED TO WOOD FRAMING WITH <17> #12X1 1/4" WOOD SCREWS.



SEP 28 2005

Engineer Seal
 Pedro De Figueiredo
 PE 52609

Date: 9/27/05
 Scale: NA
 Design by: PPMF

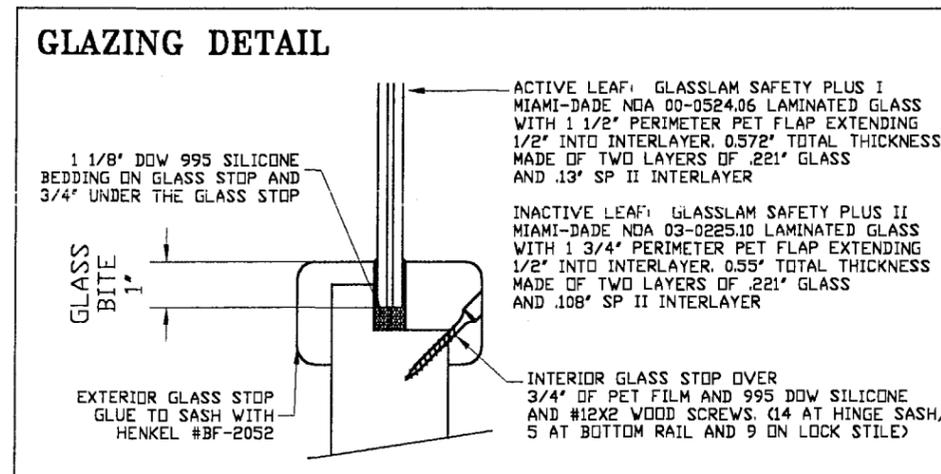
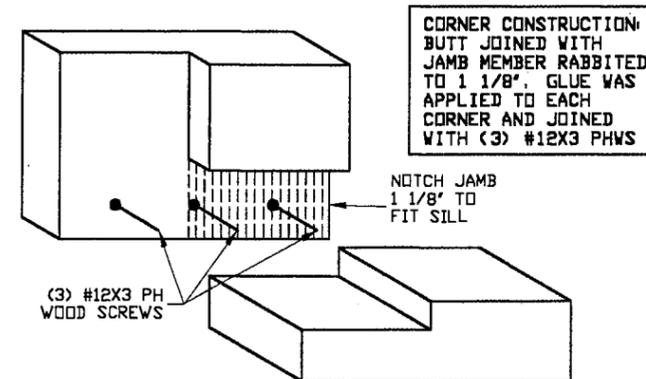
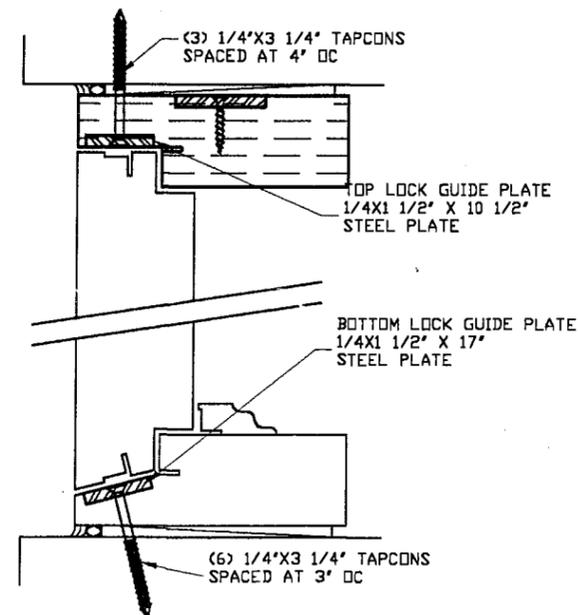
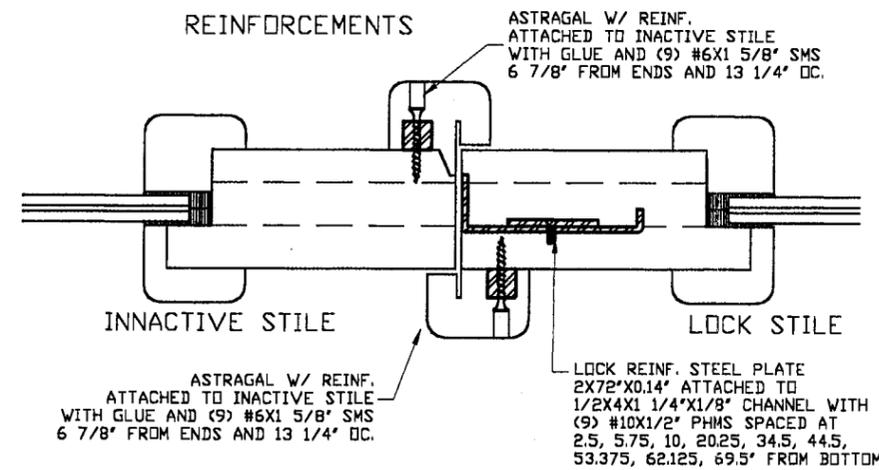
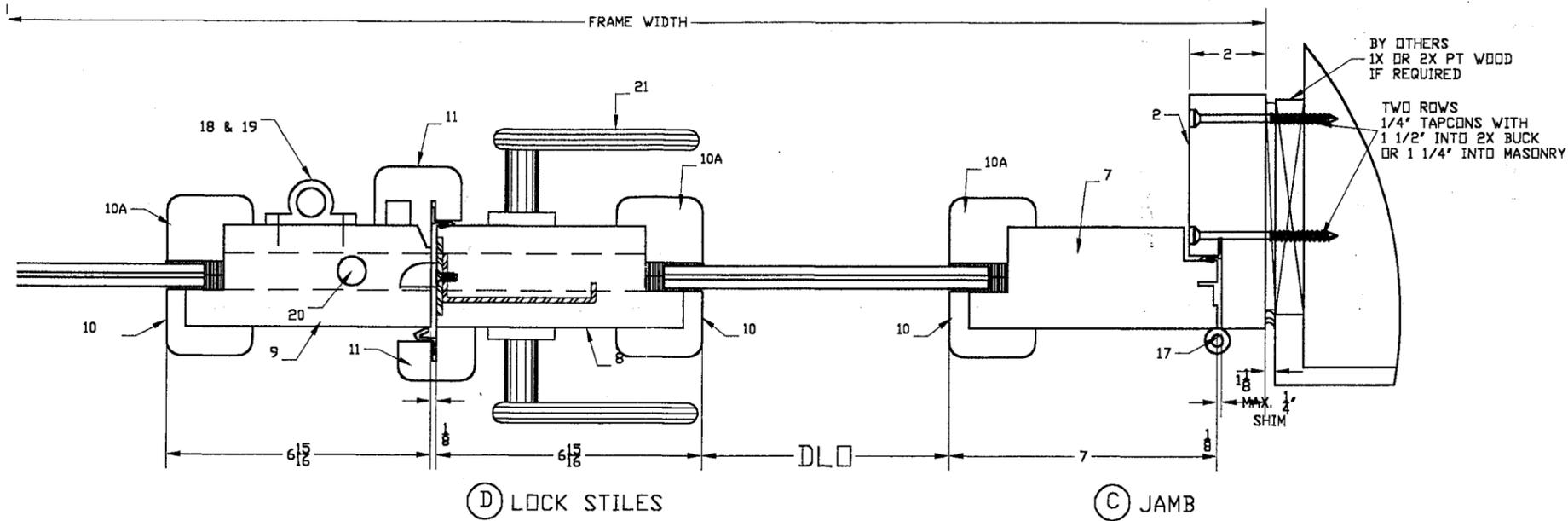
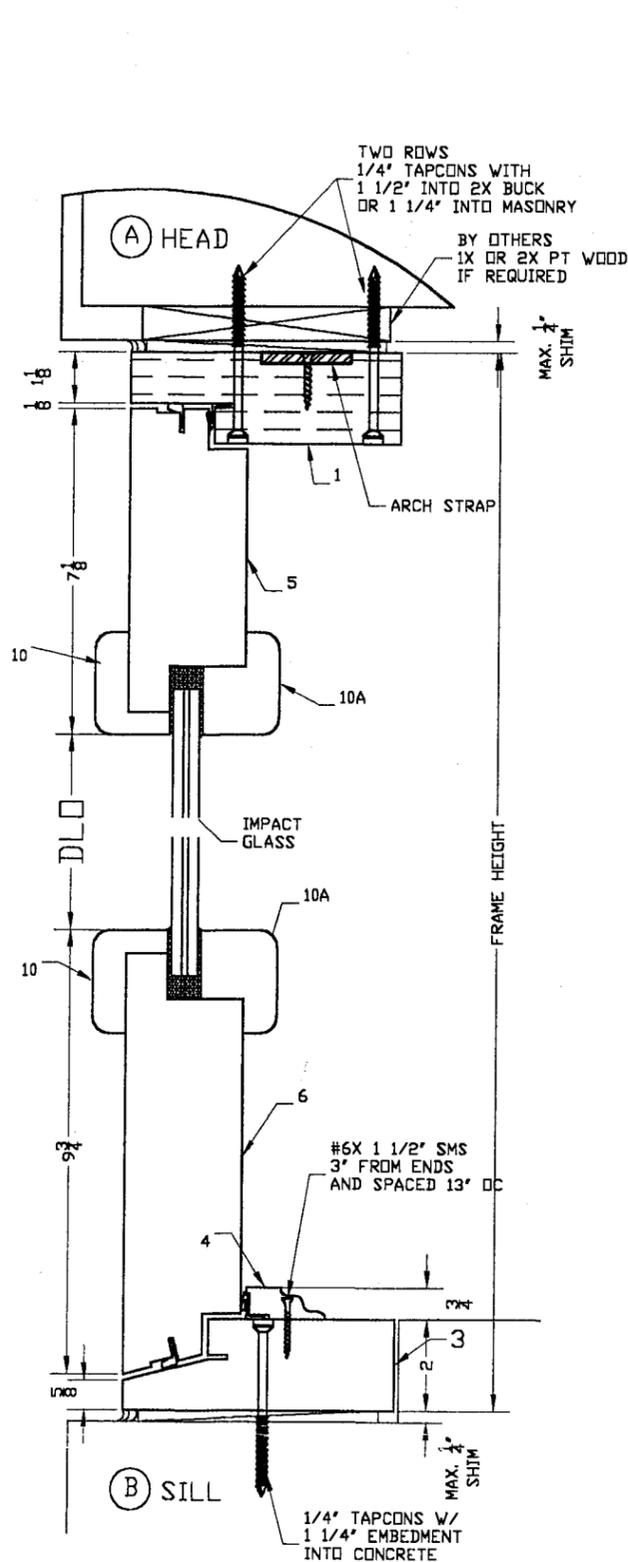
Miami Dade Office:

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 as complying with the Florida Building Code
 Acceptance No 05-1006.07
 Expiration Date OCT 7, 2007
 By *Manuel Perez*
 Miami Dade Product Control Division

Drawing Number
 05-310

Sheet
 10 of 11

MODEL E - FULL ARCHED FRENCH SWING-OUT WINDOW
 DESIGNED LOADS = +75 PSF, -83 PSF



MANUFACTURER:
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 MIAMI LAKES, FLORIDA 33015
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SEP 28 2005
 Engineer Seal
 Pedro De Figueiredo
 PE 52609

Date: 9/27/05
 Scale: NA
 Design by: PPMF

Miami Dade Office:
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 By *Manuel Sere*
 Miami Dade Product Control Division

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 Sheet
 11 of 11