



**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)

**Luxbau, LLC
2400 Centrepark West Dr. #150
West Palm Beach, FL 33409**

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: Luxbaum Windows & Doors Double Wood Casement Window

APPROVAL DOCUMENT: Drawing No. 1190, titled "Luxbaum Windows & Doors Wooden Double Casement Window System", sheets 1 through 5 of 5, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 12/12/02, signed and sealed by Warren 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

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 consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Theodore Berman, P.E.**



**NOA No 03-0326.01
Expiration Date: May 29, 2008
Approval Date: May 29, 2003**

Luxbau, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

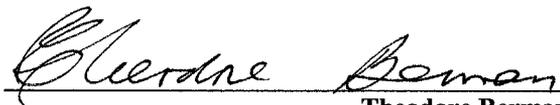
(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1190**, titled "Luxbaum Windows & Doors Wooden Double Casement Window System", sheets 1 through 5 of 5, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 12/12/02, signed and sealed by Warren Schaefer, 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
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with marked-up drawings and installation diagram of a wood casement window, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL 0271-0717.02 dated 7/24/02, signed and sealed by Vinu Abraham, P.E.
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 and TAS 202-94
along with marked-up drawings and installation diagram of a wood casement window, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL 0271-1204.02 dated 1/29/03, signed and sealed by Vinu Abraham, P.E.
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
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with marked-up drawings and installation diagram of a wood casement window, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL 0271-0836.02, 0271-0215-03 dated 8/28/02, signed and sealed by Vinu Abraham, P.E.



Theodore Berman, P.E.

Deputy Director, Product Control Division

NOA No 03-0326.01

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C. CALCULATIONS

1. Anchor Calculations and structural analysis, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 1/14/03, signed and sealed by Warren Schaefer, P.E.

D. MATERIAL CERTIFICATIONS

1. Notice of Proposed Action No. **01-1204.01**, issued to E.I. DuPont DeNemours for their "Sentry Glass Plus", approved on 1/17/02 and expiring on 1/14/07.
2. Notice of Proposed Action No. **02-1205.03**, issued to Security Impact Glass Holdings for their "SAF-GLAS", approved on 1/2/03 and expiring on 12/16/07.

E. STATEMENTS

1. Statement letter of conformance, dated 2/19/02, signed and sealed by Warren Schaefer, P.E.
2. Statement letter of no financial interest, dated 2/19/02, signed and sealed by Warren Schaefer, P.E.
3. Laboratory compliance letter for Test Report no. HTL 0271-0717.02, 0271-1204.02, 0271-0836.02, 0271-0215-03 issued by Hurricane Test Laboratory, Inc., dated 2/28/03, signed and sealed by Vinu Abraham, P.E.

F. OTHER

1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (FBC).



Theodore Berman, P.E.

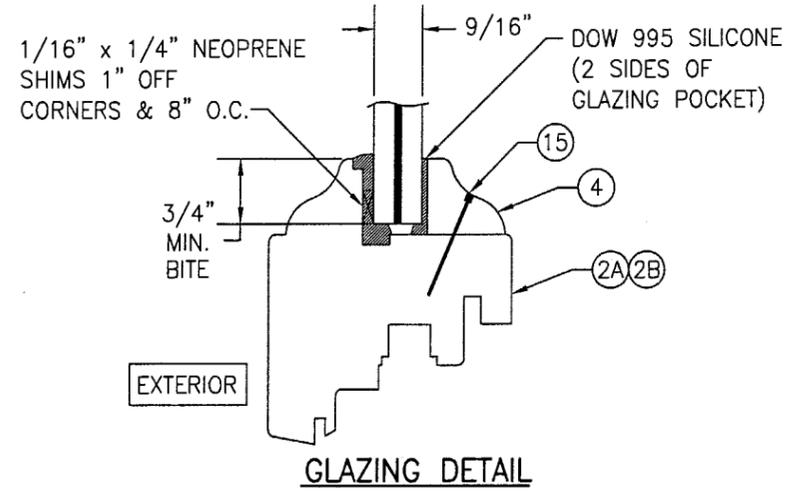
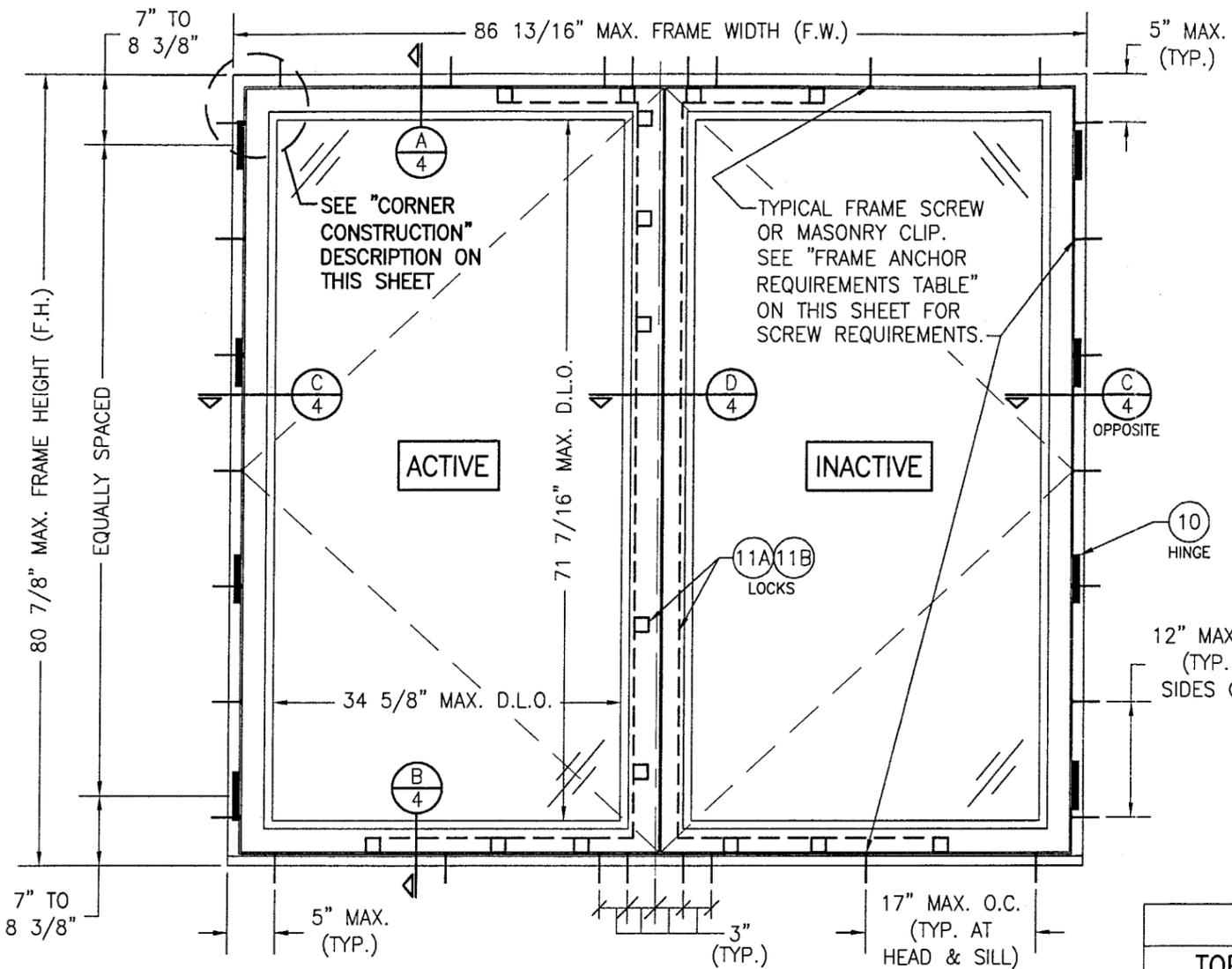
Deputy Director, Product Control Division

NOA No 03-0326.01

Expiration Date: May 29, 2008

Approval Date: May 29, 2003

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|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| DRAWN BY: K.P.S. | CHECKED BY: W.W.S. |
| PLOT: 1=16 | DATE: 12/12/02 |
| DATE | |
| BY | |
| REVISION DESCRIPTION | |
| NO. | |
| DRAWING TITLE: LUXBAUM WINDOWS & DOORS WOODEN DOUBLE CASEMENT WINDOW SYSTEM | |
| MANUFACTURER: LUXBAU, LLC | 2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409 561-684-1500 |
| CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. | 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903 |
| CERTIFICATION | MAR 18 2003 WARREN W. SCHAEFER, P.E. P.E. NO. 44135 |
| DRAWING NO. | REV. |
| 1190 | |
| SHEET NO. | |
| 1 | OF 5 |



GLAZING DETAIL

OPTION 1: 9/16" SECURITY IMPACT GLASS SAF-GLASS LAMINATED GLASS (1/4" A.N./0.015 ADHESIVE/0.07 POLYCARBONITE/0.015 ADHESIVE/1/4" A.N.)

OPTION 2: 9/16" SENTRY GLASS PLUS LAMINATED GLASS (1/4" A.N./0.09 SGP/1/4" A.N.)

**EXTERIOR ELEVATION
DOUBLE WINDOW UNIT**
SCALE: 3/4"=1'-0"

CORNER CONSTRUCTION

JAMB CORNERS: VERTICAL JAMB ENDS ARE COPED AND BUTTED TO HORIZONTAL JAMBS WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (3) 1/2" DIA. x 3 5/16" LONG MERBAU WOOD DOWELS.

SASH CORNERS: HORIZONTAL SASH ENDS ARE COPED AND BUTTED TO VERTICAL SASH PROFILES WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (2) 1/2" DIA. x 3 7/16" AND (1) 5/8" DIA. x 3 1/4" MERBAU WOOD DOWELS.

GENERAL NOTES

1. THESE WINDOW 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 FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (F.B.C.).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.

| TOP LOCK | | SIDE LOCK | | BOTTOM LOCK | |
|---------------------------|-----------------------|----------------------------|-----------------------|---------------------------|-----------------------|
| MAXIMUM PANEL WIDTH (IN.) | NO. LOCK POINTS REQ'D | MAXIMUM PANEL HEIGHT (IN.) | NO. LOCK POINTS REQ'D | MAXIMUM PANEL WIDTH (IN.) | NO. LOCK POINTS REQ'D |
| 33 | 1 | 41 | 2 | 20 | 1 |
| 42 | 2 | 57 | 3 | 35 | 2 |
| | | 78 | 4 | 42 | 3 |

| FRAME HEIGHT | NO. OF HINGES REQUIRED |
|---------------|------------------------|
| OVER 57" | 4 |
| 33" TO 57" | 3 |
| LESS THAN 33" | 2 |

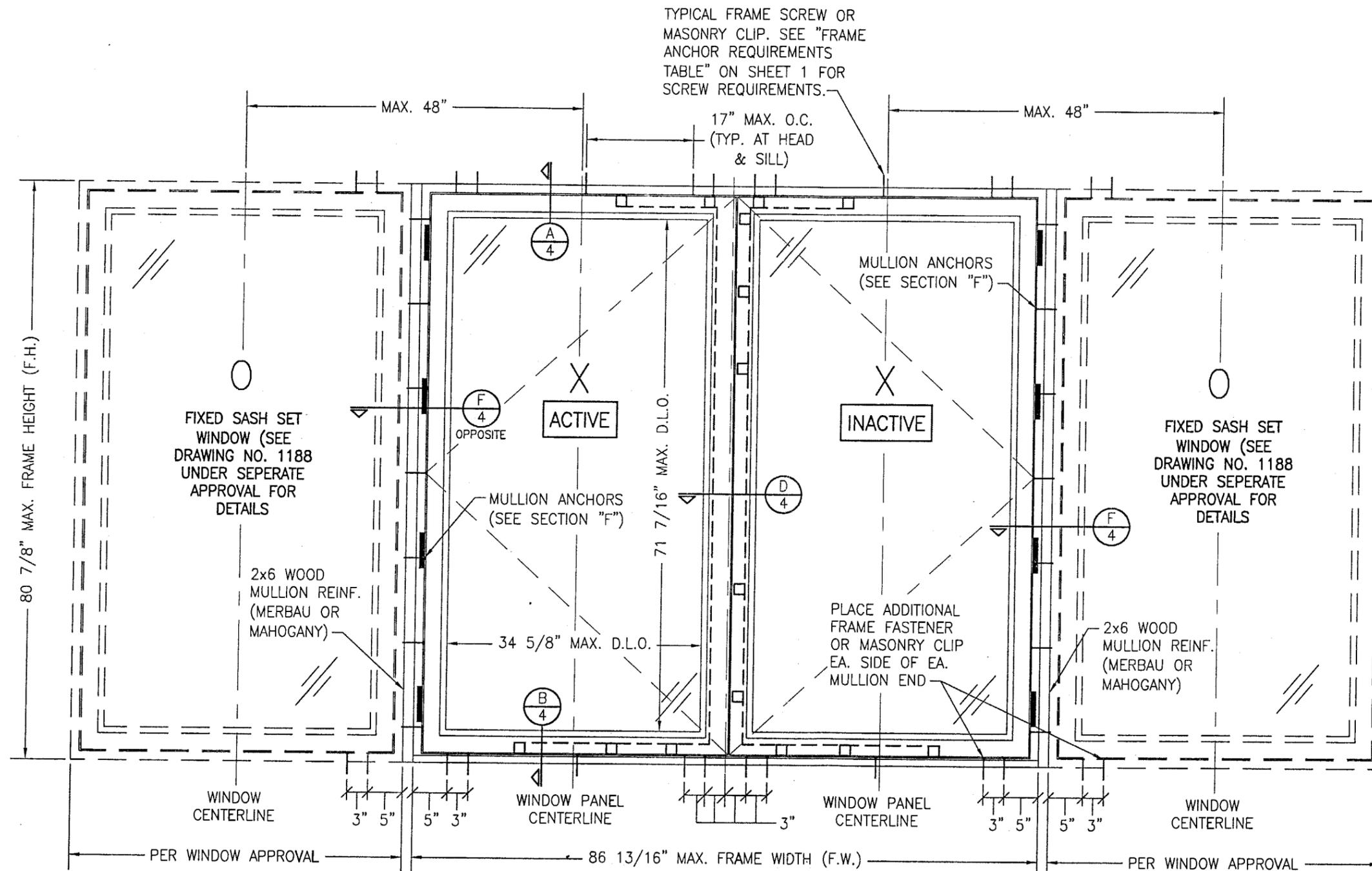
| POSITIVE | NEGATIVE |
|----------|----------|
| 65 PSF | 70 PSF |

| OPENING TYPE (SUBSTRATE) | JAMB TO OPENING FASTENER TYPE | MINIMUM EMBEDMENT | MINIMUM EDGE DIST. |
|--------------------------|-------------------------------|-------------------|--------------------|
| 2X_ WOOD FRAME OR BUCK | NO. 12 SMS SCREW | 1 1/4" | 1" |
| CMU/CONCRETE | (1) 1/4" CONCRETE SCREWS | 1 1/4" | 2" |

(1) CONCRETE SCREWS SHALL BE ELCO OR ITW RAMSET/RED HEAD TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER (HARDENED STEEL OR S.S.).

* ANCHOR NOTE: FRAME MAY BE EITHER DIRECT MOUNTED TO THE OPENING, MOUNTED ONTO A CONTINUOUS WOOD SPACER, OR ANCHORED TO A MIN. 2x4 NO. 3 SOUTHERN PINE WOOD BUCK. WHEN ANCHORED TO A 2x4 BUCK, NO. 12 SCREWS SHALL BE USED. WHEN DIRECT MOUNTED OR MOUNTED WITH SPACER, 1/4" CONCRETE SCREW SHALL BE USED. SEE "ANCHOR REQUIREMENTS TABLE" FOR EMBED REQUIREMENTS.

Approved as complying with the Florida Building Code
Date 05/29/03
NOA 03-0326.01
Miami Dade Product Control Division
By: *Deborah Bowman*



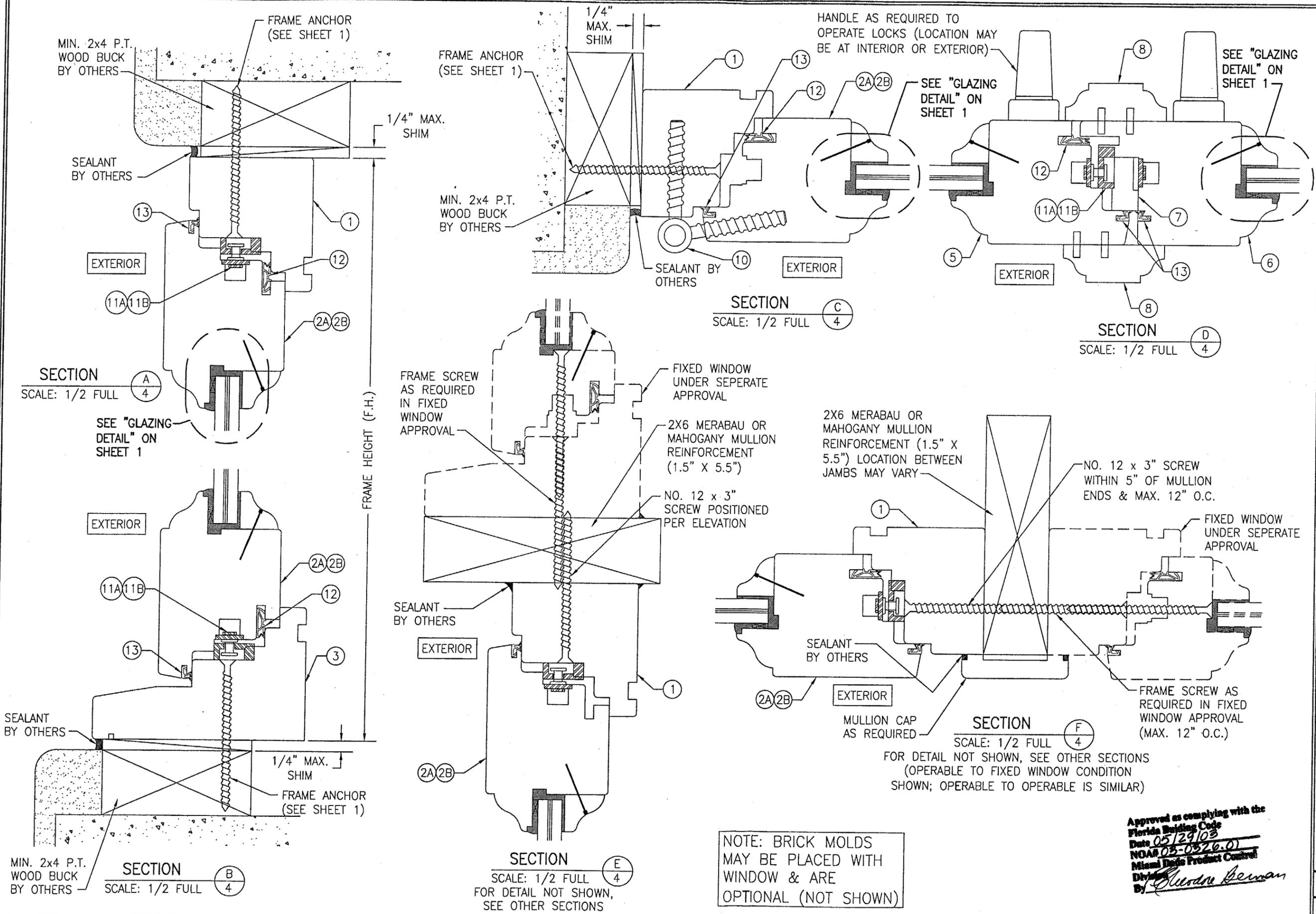
**EXTERIOR ELEVATION
DOUBLE CASEMENT WINDOW UNIT WITH SIDE LIGHTS
(MAX. FOUR UNITS MAY BE COMBINED)**

SEE DOUBLE WINDOW ELEVATIONS FOR DETAIL NOT SHOWN
SCALE: 3/4"=1'-0"

(OXXO UNIT SHOWN. TWO DOUBLE OPERABLE UNITS MAY
ALSO BE MULLED TOGETHER WITH THE MULLION CONDITIONS
SHOWN.)

Approved as complying with the
Florida Building Code
Date 05/29/03
NOAS 03-1326.01
Miami Dade Product Control
Division
By: *Sharon Berney*

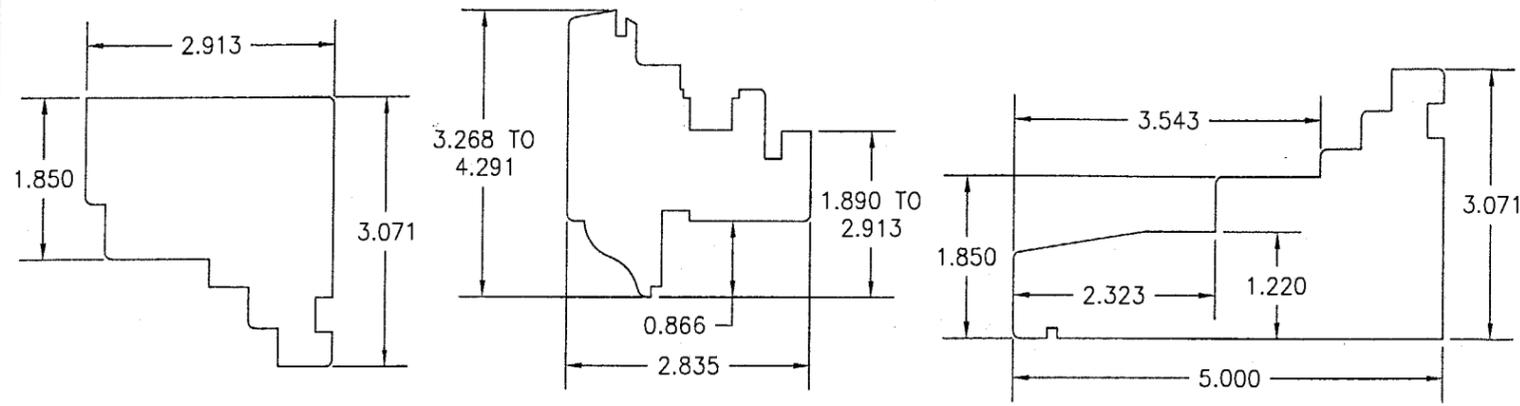
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| DRAWN BY: K.P.S. | | CHECKED BY: W.W.S. | |
| PLOT: 1=16 | | DATE: 12/12/02 | |
| NO. | REVISION DESCRIPTION | BY | DATE |
| | | | |
| DRAWING TITLE: LUXBAUM WINDOWS & DOORS WOODEN DOUBLE CASEMENT WINDOW SYSTEM | | | |
| CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903 | | MANUFACTURER: LUXBAUM, LLC 2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409 561-684-1500 | |
| CERTIFICATION MAR 19 2003 | | WARREN W. SCHAEFER, P.E. P.E. NO. 44135 | |
| DRAWING NO. 1190 | REV. | | |
| SHEET NO. 3 OF 5 | | | |



NOTE: BRICK MOLDS MAY BE PLACED WITH WINDOW & ARE OPTIONAL (NOT SHOWN)

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 Date 05/29/03
 NOAR 03-0326-01
 Miami Dade Product Control
 Division
 By *Sharon Berman*

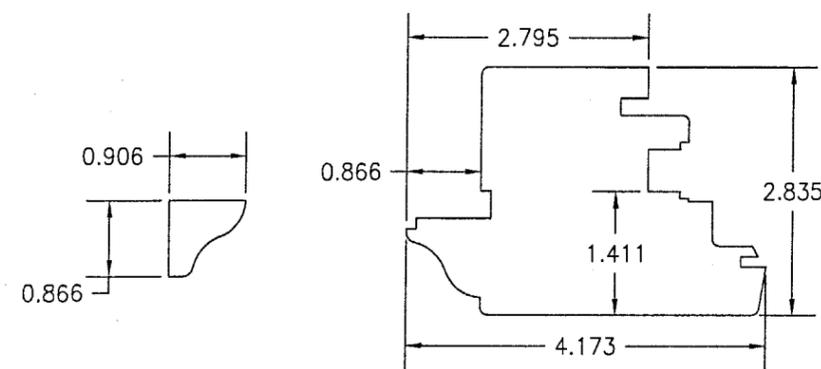
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| DRAWN BY: K.P.S. | | CHECKED BY: W.W.S. | |
| PLOT: 1=2 | | DATE: 12/12/02 | |
| NO. | REVISION DESCRIPTION | DATE | BY |
| | | | |
| DRAWING TITLE: LUXBAUM WINDOWS & DOORS WOODEN DOUBLE CASEMENT WINDOW SYSTEM | | | |
| CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. | | MANUFACTURER: LUXBAU, LLC | |
| 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 | | 2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409 | |
| PHONE: 561-775-4902 | | FAX: 561-775-4903 | |
| CERTIFICATION: MAR 19 2003 | | | |
| DRAWING NO. 1190 | | REV. 4 | |
| SHEET NO. 4 OF 5 | | | |



① HEAD & SIDE JAMB

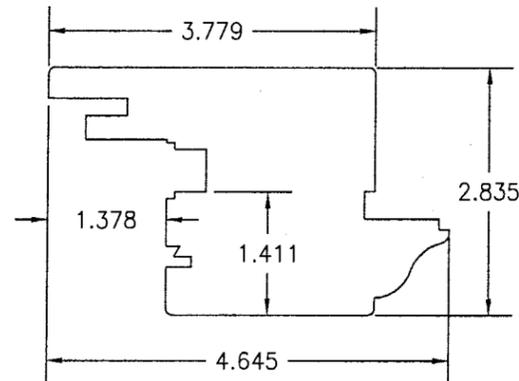
②A/②B LARGE SASH & SMALL SASH

③ SILL JAMB

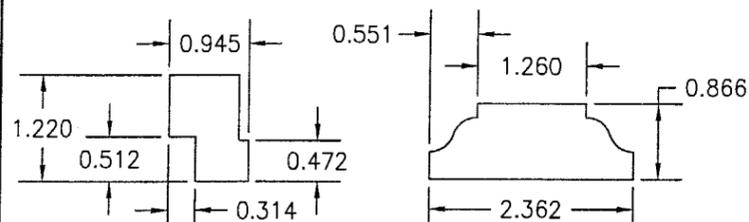


④ GLAZING BEAD

⑤ ACTIVE MEETING STILE

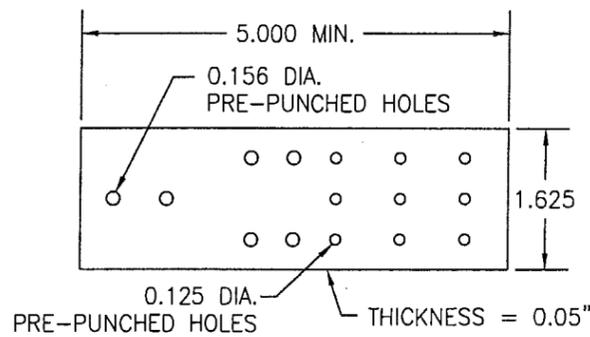


⑥ INACTIVE MEETING STILE



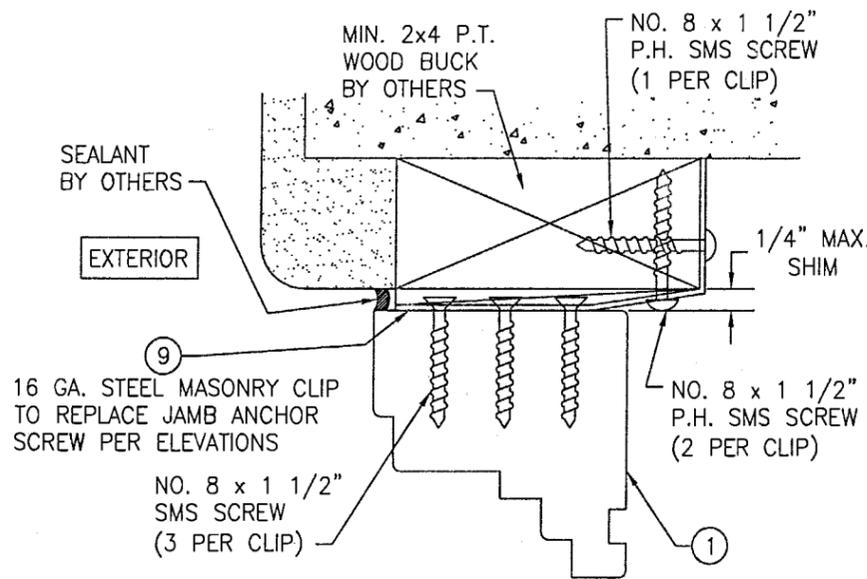
⑦ ASTRAGAL

⑧ ASTRAGAL CAP



⑨ MASONRY CLIP

PRE-PUNCHED HOLES ARE ADDED FOR CLIPS LONGER THAN 5"

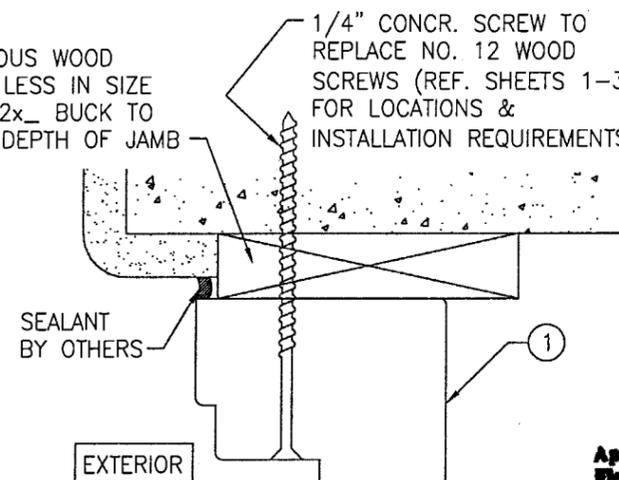


OPTIONAL MASONRY CLIP MOUNT DETAIL

FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS (HEAD SECTION SHOWN, SIDES AND SILL SIMILAR)

| ITEM # | PART | ITEM DESCRIPTION | MANUFACTURER/NOTES |
|-------------------------|----------------|------------------------------------------------------|-----------------------------------|
| PARTS | | | |
| 1 | 7478 | FRAME HEAD & SIDE JAMB | MIN. GR. 2 MERBAU OR MAHOGANY |
| 2A | 72109 | LARGE SASH | MIN. GR. 2 MERBAU OR MAHOGANY |
| 2B | 7283 | SMALL SASH | MIN. GR. 2 MERBAU OR MAHOGANY |
| 3 | 78127 | SILL JAMB | MIN. GR. 2 MERBAU OR MAHOGANY |
| 4 | 2223 | GLAZING BEAD | MIN. GR. 2 MERBAU OR MAHOGANY |
| 5 | 72106 | ACTIVE MEETING STILE | MIN. GR. 2 MERBAU OR MAHOGANY |
| 6 | 72118 | INACTIVE MEETING STILE | MIN. GR. 2 MERBAU OR MAHOGANY |
| 7 | 2431 | ASTRAGAL | MIN. GR. 2 MERBAU OR MAHOGANY |
| 8 | 2260 | ASTRAGAL CAP | MIN. GR. 2 MERBAU OR MAHOGANY |
| 9 | - | 1 5/8" WIDE x 0.05" THK. x MIN. 5" LONG MASONRY CLIP | ASTM A653 MIN. 33 KSI GALV. STEEL |
| 10 | 5020-SM | HINGE | G-U HARDWARE |
| 11A | 6-25474-35-0-3 | MULTI-POINT LOCK SET | G-U HARDWARE HWC-35 |
| 11B | 3/45M5 | MULTI-POINT LOCK SET | SIEGENIA NO. 3/45M5 |
| SEALS AND SEALANTS | | | |
| 12 | SV-12/ACF-6950 | COMPRESSION SEAL | DEVENTER/G-U |
| 13 | SV-33/ACF-4527 | COMPRESSION SEAL | DEVENTER/G-U |
| MISCELLANEOUS FASTENERS | | | |
| 15 | - | 1/4" x 1 1/4" BRAD NAIL | 2" FROM CORNERS & 4" O.C. |

CONTINUOUS WOOD MEMBER LESS IN SIZE THAN A 2x_ BUCK TO BE MIN. DEPTH OF JAMB



OPTIONAL DIRECT MOUNT DETAIL

FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS (HEAD SECTION SHOWN, SIDES AND SILL SIMILAR)

Approved as complying with the Florida Building Code
 Date 05/29/03
 NOA# 03-0326-01
 Miami Dade Product Control Division
 By *Heerduke Boyman*

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| DRAWN BY: K.P.S. | CHECKED BY: W.W.S. |
| PLOT: 1=2 | DATE: 12/12/02 |
| REVISION NO. | REVISION DESCRIPTION |
| NO. | DATE |
| DRAWING TITLE LUXBAUM WINDOWS & DOORS WOODEN DOUBLE CASEMENT WINDOW SYSTEM | |
| MANUFACTURER LUXBAU, LLC 2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409 561-684-1500 | |
| CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903 | |
| CERTIFICATION MAR 19 2003 | WARREN W. SCHAEFER, P.E. P.E. NO. 44135 |
| DRAWING NO. 1190 | REV. |
| SHEET NO. 5 | OF 5 |