



MIAMI-DADE COUNTY
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) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.maimidade.gov/buildingcode

Luxbau, LLC,
2400 Centrepark West,
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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Wood Double Hung Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 1432, titled "Luxbaum Windows & Doors Wood Double Hung Windows", sheets 1 through 5 of 5, dated 02/12/08, prepared by W.W. Schaefer Engineering & Consulting P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large Impact Resistant

LIMITATIONS: This product shall be installed in substrates of wood and 3000 psi minimum strength concrete only.

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 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Fitz A. Harris, P.E.**



Fitz A. Harris
 2/11/09

NOA No. 08-0305.10
Expiration Date: March 4, 2014
Approval Date: March 4, 2009

Luxbaum Windows and Doors Wood Fixed Window

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No 1432, Sheets 1 through 5 of 5, titled "Luxbaum Windows & Doors Wood Double Hung Windows", dated 02/12/08 prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

1. Test reports on
 - 1) Air Infiltration Test, per 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, TAS 202-94along with marked-up drawings and installation diagrams of double hung wood windows, prepared by Hurricane Testing Laboratory Inc., Test Report No. 0271-0304-07, dated Feb. 8, 2007 signed and sealed by Vinu Abraham, P.E.

C. CALCULATIONS

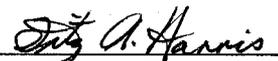
1. Anchor verification calculations and structural analysis, complying with FBC-2004/2007, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 02/20/08, signed and sealed by Warren W. Schaefer P.E.
Complies with ASTM E1300-98/02

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **07-1116.04** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass ® Plus**" dated 01/03/08, expiring on 01/14/12.


Fitz A. Harris, P.E.

Product Control Examiner
NOA No. 08-0305.10
Expiration Date: March 4, 2014
Approval Date: March 4, 2009

Luxbaum Windows and Doors Wood Fixed Windows

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. STATEMENTS

1. Statement letter of conformance, dated February 28, 2008, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest, dated February 28, 2008, signed and sealed by Warren W. Schaefer, P.E.

F. OTHERS

None

G LIMITATIONS: This product shall be installed in substrates of wood and 3000 psi minimum concrete only.



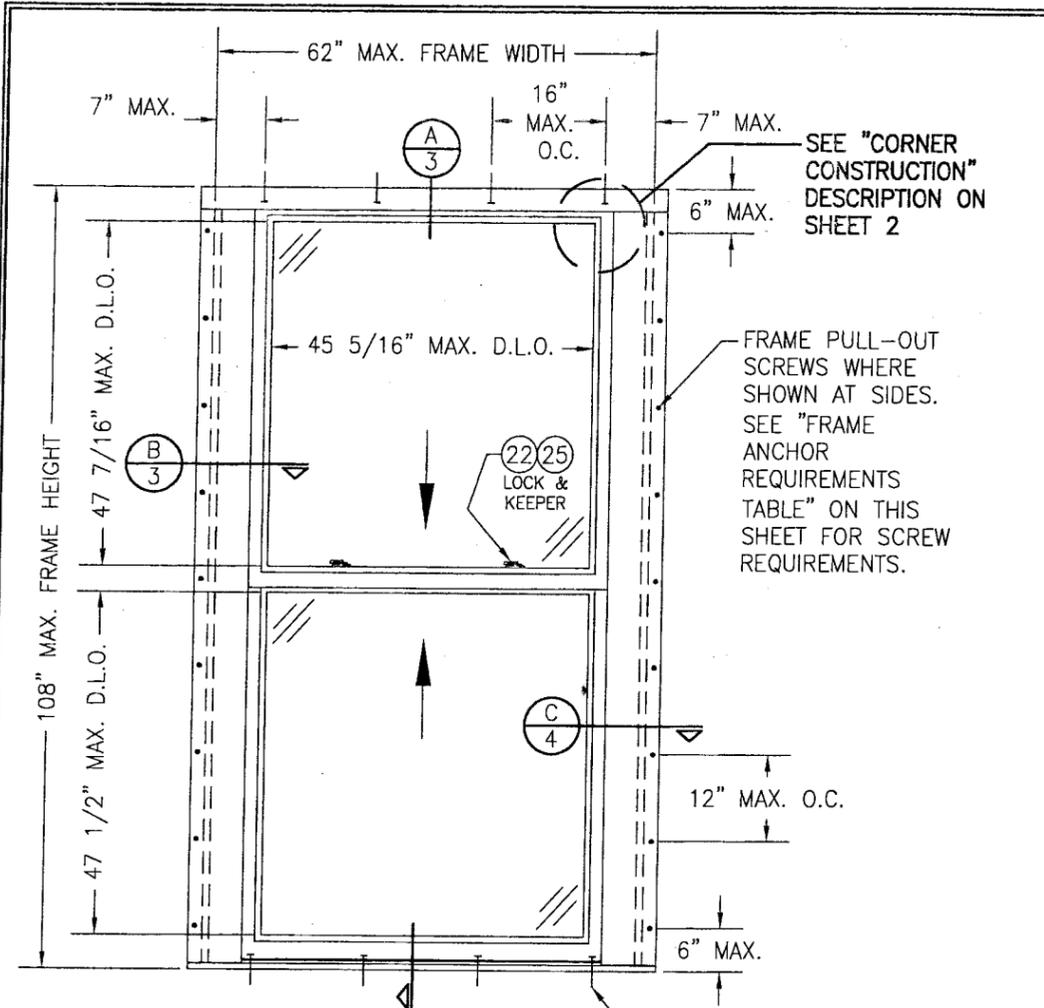
Fitz A. Harris, P.E.

Product Control Examiner

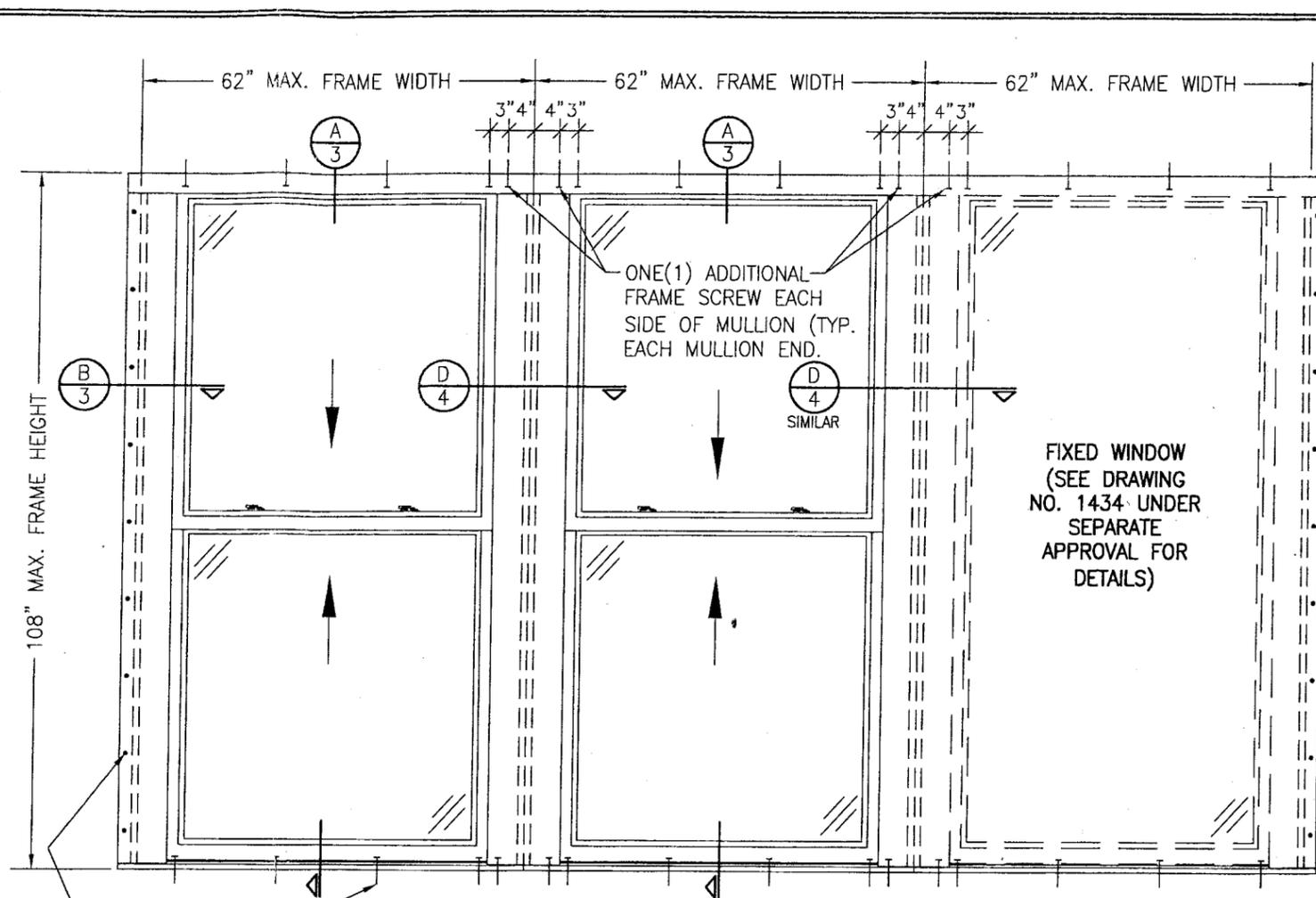
NOA No. 08-0305.10

Expiration Date: March 4, 2014

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**EXTERIOR ELEVATION;
SINGLE DOUBLE HUNG WINDOW**
SCALE: 1/2"=1'-0"



**EXTERIOR ELEVATION;
MULTIPLE OPERABLE/FIXED WINDOW UNIT**
SCALE: 1/2"=1'-0"

GENERAL NOTES:

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & 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 & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF THE ASCE 7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

ALLOWABLE DESIGN PRESSURE
+65/-72 PSF
ALL SINGLE AND MULLED UNITS

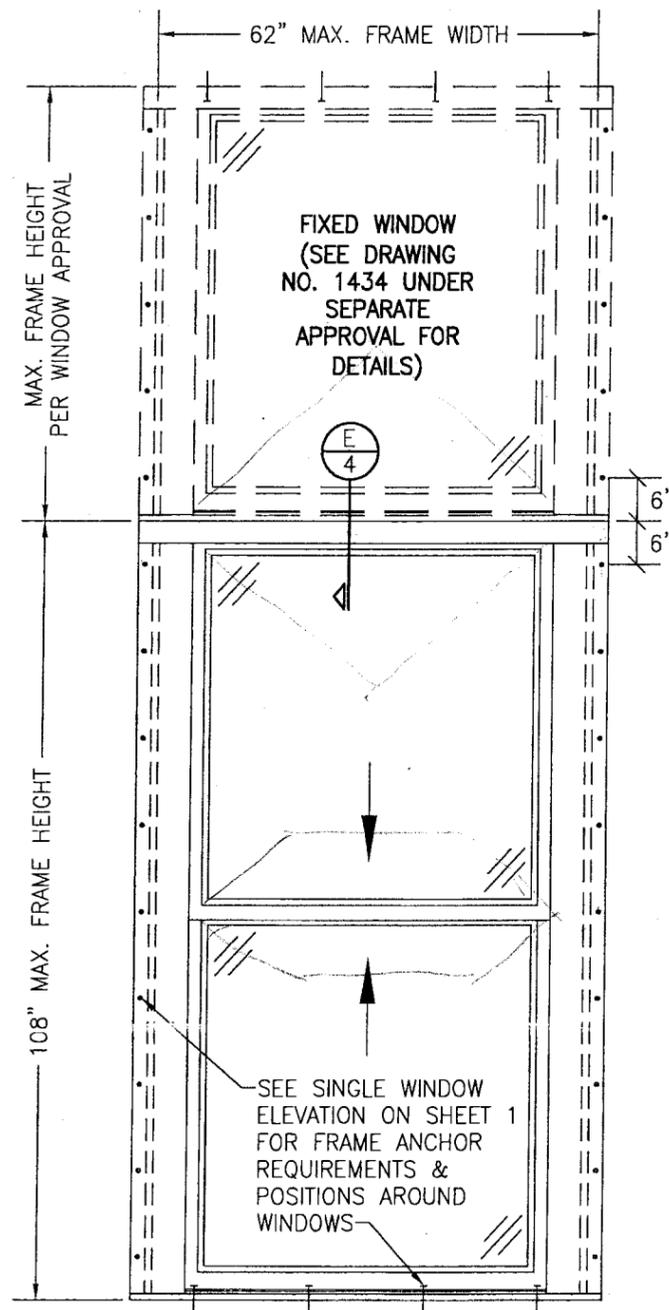
NOTE: THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.

FRAME ANCHOR REQUIREMENTS TABLE			
PULL-OUT SCREWS (SIDES)			
OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
2X8 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/2"	1/2"
FRAME SCREWS (HEAD & SILL)			
2X8 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS/WOOD SCREW OR 1/4" BTI SCREW	1 1/4"	3/4"
MIN. 3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2 1/2"

(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.).

Approved as complying with the Florida Building Code
Date 2-11-09
NOA# 08-0305-10
Miami Dade Product Control
Division
By *[Signature]*

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 02/12/08
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE LUXBAUM WINDOWS & DOORS WOOD DOUBLE HUNG WINDOWS	
MANUFACTURER LUXBAU, L.L.C. 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 NOV 18 2008	DRAWING NO. 1432
	REV. SHEET NO. 1 OF 5



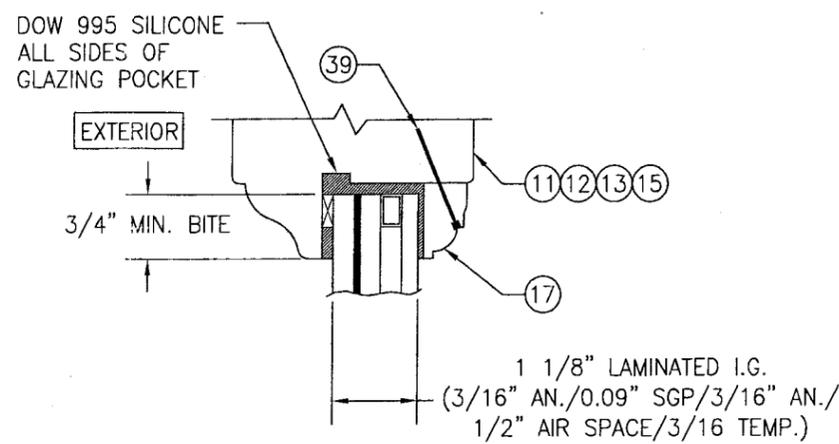
EXTERIOR ELEVATION:
SINGLE DOUBLE HUNG WINDOW WITH TRANSOM
 SCALE: 1/2" = 1'-0"
 (SEE SINGLE WINDOW ELEVATION FOR DETAIL NOT SHOWN)

CORNER CONSTRUCTION

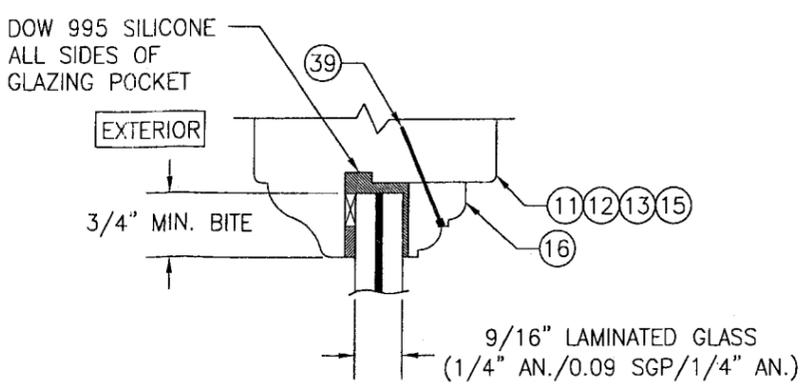
HEAD JAMB CORNERS: THE SECONDARY JAMB (ITEM #3B) & HEAD (ITEM #1) MEMBERS ARE SQUARE CUT & BUTTED TOGETHER. THE SECONDARY JAMB MEMBERS ARE MECHANICALLY ATTACHED TO THE HEAD USING TWO(2) NO. 10 X 2 1/2" SMS. THE PRIMARY JAMB (ITEM #3A) MEMBERS ARE COPED, BUTTED, & SECURED INTO THE HEAD USING TWO(2) NO. 10 X 3 1/2" SMS.

SILL JAMB CORNERS: THE SECONDARY JAMB (ITEM #3B) & SILL (ITEM #2) MEMBERS ARE SQUARE CUT & BUTTED TOGETHER. THE SECONDARY JAMB MEMBERS ARE MECHANICALLY ATTACHED TO THE SILL USING TWO(2) NO. 10 X 2 1/2" SMS. THE PRIMARY JAMB (ITEM #3A) MEMBERS ARE COPED, BUTTED, & SECURED INTO THE SILL USING TWO(2) NO. 10 X 3 1/2" SMS.

SASH CORNERS: THE VERTICAL SASH MEMBERS WERE COPED, BUTTED & MECHANICALLY FASTENED TO THE HORIZONTAL SASH MEMBERS USING ONE(1) 5/8" X 3" LONG & TWO(2) 1/2" X 3" LONG MERBAU DOWELS



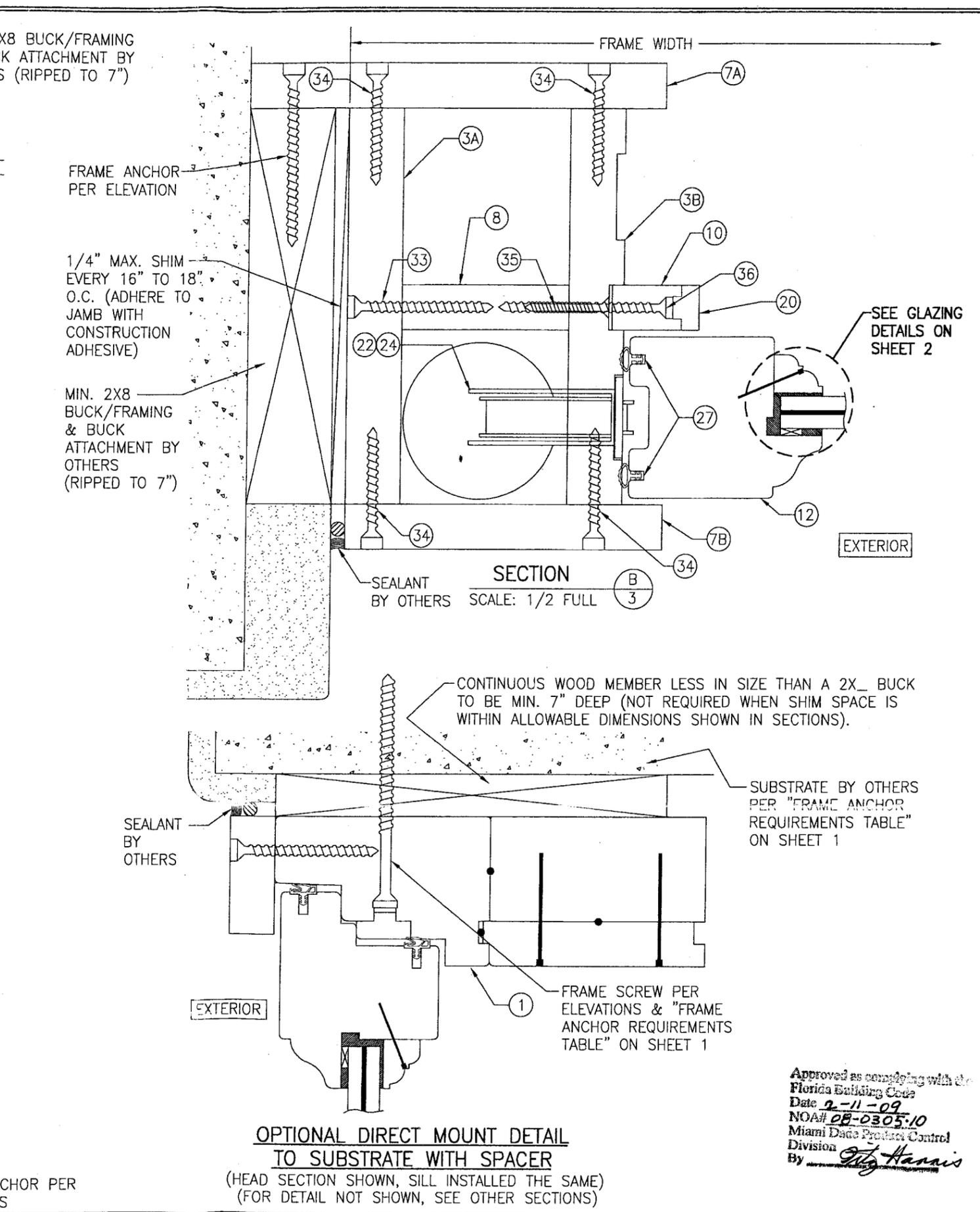
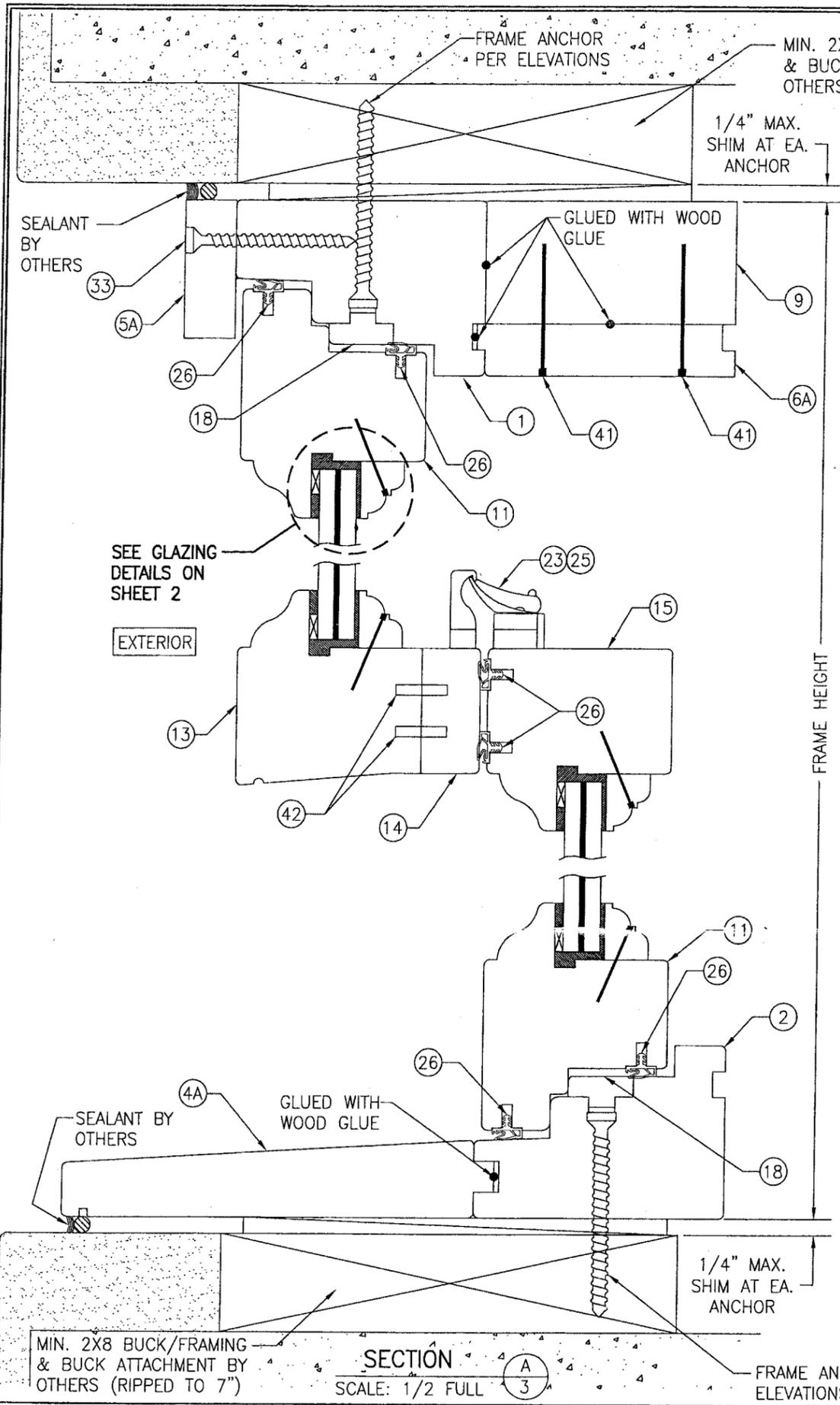
I.G. GLAZING DETAIL



NON-I.G. GLAZING DETAIL

Approved as complying with the
 Florida Building Code
 Date 2-11-09
 NOA# 08-0305.10
 Miami Dade Product Control
 Division
 By *Stacy Harris*

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 02/12/08
NO.	DATE
BY	REVISION DESCRIPTION
DRAWING TITLE LUXBAUM WINDOWS & DOORS WOOD DOUBLE HUNG WINDOWS	
MANUFACTURER LUXBAU, L.L.C. 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 NOV 18 2008	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1432	REV.
SHEET NO. 2	OF 5

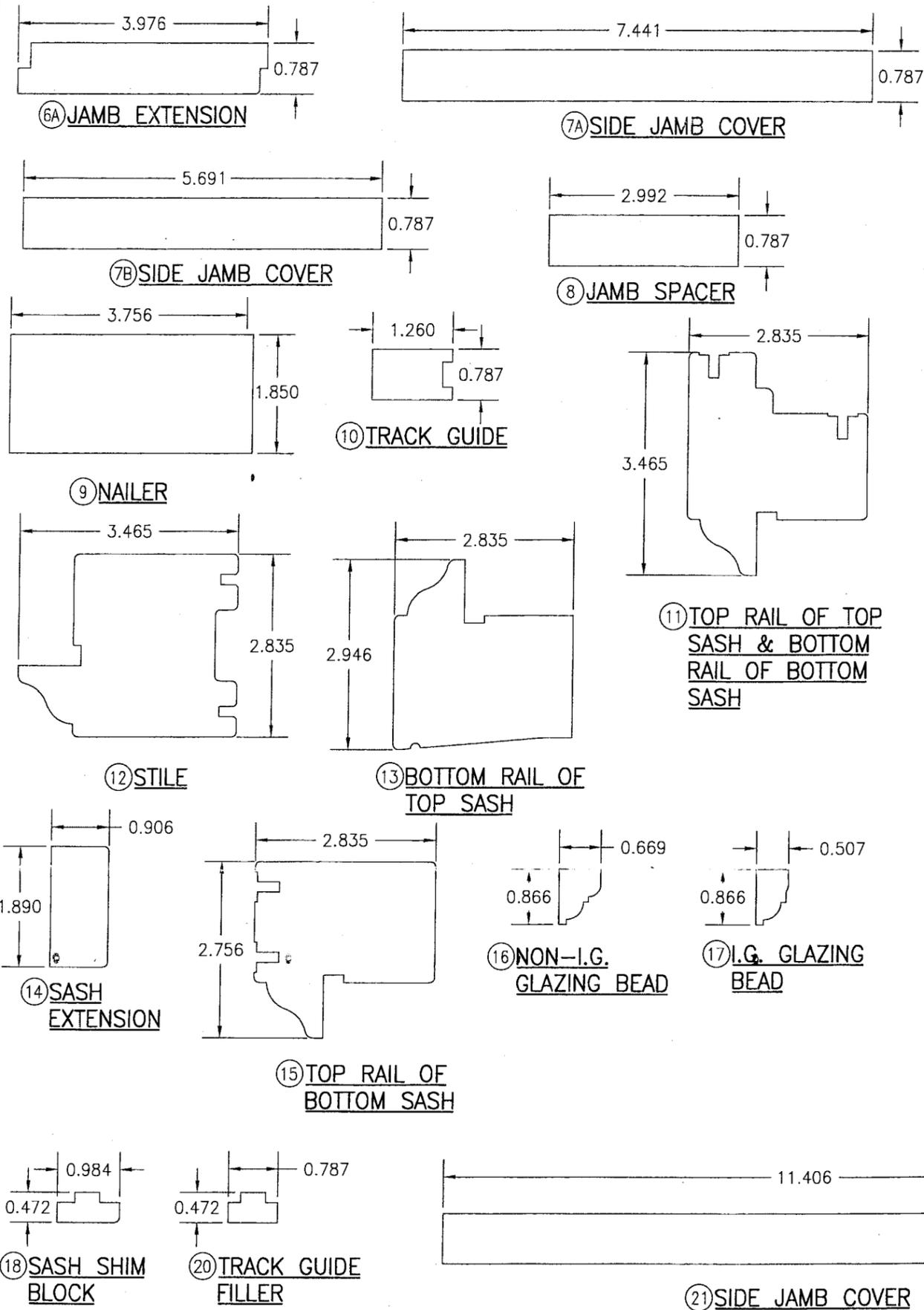


MIN. 2X8 BUCK/FRAMING & BUCK ATTACHMENT BY OTHERS (RIPPED TO 7")
 SECTION A
 SCALE: 1/2 FULL

OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER
 (HEAD SECTION SHOWN, SILL INSTALLED THE SAME)
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

Approved as complying with the Florida Building Code
 Date 2-11-09
 NOA# 08-0305-10
 Miami Dade Product Control Division
 By *City Harris*

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 02/12/08
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE LUXBAUM WINDOWS & DOORS WOOD DOUBLE HUNG WINDOWS	
MANUFACTURER LUXBAU, L.L.C. 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 NOV 18 2008 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1432	REV.
SHEET NO. 3 OF 5	



ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	DH-(B)9867-L	HEAD	* WOOD
2	DH-(A)9867-L	SILL	* WOOD
3A	DH-(A)25176-A	PRIMARY JAMB	* WOOD
3B	DH-(A)25176-A	SECONDARY JAMB	* WOOD
4A	DH-30169-Q	SILL EXTENSION	* WOOD
5A	DH-2053-F	HEAD CAP	* WOOD
5B	DH-2053-F	TRANSOM MULLION CAP	* WOOD
6A	DH-20101-B	JAMB EXTENSION	* WOOD
7A	DH-20189-A	SIDE JAMB COVER	* WOOD
7B	DH-20145-A	SIDE JAMB COVER	* WOOD
8	DH-2076-M	JAMB SPACER	* WOOD
9	-	NAILER	* WOOD
10	DH-2032-M	TRACK GUIDE	* WOOD
11	DH-A7288-C	TOP RAIL OF TOP SASH & BOTTOM RAIL OF BOTTOM SASH	* WOOD
12	DH-B7288-V	STILE	* WOOD
13	DH-7275-V	BOTTOM RAIL OF TOP SASH	* WOOD
14	DH-2348-C	SASH EXTENSION	* WOOD
15	DH-7270-C	TOP RAIL OF BOTTOM SASH	* WOOD
16	DH-1722-M	NON-I.G. GLAZING BEAD	* WOOD
17	DH-1322-M	I.G. GLAZING BEAD	* WOOD
18	DH-1225-M	SASH SHIM BLOCK	* WOOD
20	DH-1220-M	TRACK GUIDE FILLER	* WOOD
21	DH-20290-A	SIDE JAMB COVER	* WOOD
HARDWARE			
22	7114	SASH PULLEY (TYPE A)	BY: ARCHITECTURAL RESOURCE CENTER
23	-9	SASH LOCK (TYPE A)	BY: ARCHITECTURAL RESOURCE CENTER
24	-	SASH PULLEY (TYPE B)	BY: PHELPS COMPANY
25	LK 395	SASH LOCK (TYPE B)	BY: PHELPS COMPANY
SEALS AND SEALANTS			
26	-	COMPRESSION SEAL	BY: DEVENTER; DS 6577
27	-	COMPRESSION SEAL	BY: DEVENTER; E 06A/07
FASTENERS			
33	-	NO. 10 X 2 1/2" SMS	WITHIN 3" OF ENDS & 8" MAX. O.C.
34	-	NO. 10 X 2 1/2" SMS	WITHIN 6" OF ENDS & 12" MAX. O.C.
35	-	NO. 8 X 1 1/2" SMS	WITHIN 3" OF ENDS & 16" MAX. O.C.
36	-	NO. 8 X 3" SMS	WITHIN 6" OF ENDS & 8" MAX. O.C.
39	-	23 GA. X 1 1/4" BRAD NAIL	WITHIN 2" OF ENDS & 4" MAX. O.C.
41	-	14 GA. FINISH NAILS (2 ROWS)	WITHIN 2" OF ENDS & 6" MAX. O.C.
42	-	NO. 20 WOOD BISCUIT	WITHIN 4" OF ENDS & 12" MAX. O.C.

* WOOD USED IN TESTING WAS MERBAU MAHOGANY WITH A SPECIFIC GRAVITY OF G = 0.67. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.67 OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY LUXBAU, LLC. TO SELECT.

Approved as complying with the Florida Building Code
 Date 2-11-09
 NOA# 08-0305-10
 Miami Dade Product Control Division
 By Jeff Harris

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 02/12/08
DATE	BY
REVISION DESCRIPTION	NO.
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DRAWING NO. 1432	
SHEET NO. 5 OF 5	