



**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.buldingcodeonline.com](http://www.buldingcodeonline.com)**

**NOTICE OF ACCEPTANCE (NOA)**

**C. P. Loewen Enterprises  
77 P.T.H. 52 West, Box 2260  
Steinbach, Manitoba, Canada R2G 1B2**

**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: Outswing Aluminum Clad Wood Casement Window – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. 1096, titled "Aluminum Clad Wood Impact Outswing Casement Windows", sheets 1 through 6 of 6, dated 02/01/02 with revision #A4 dated 09/11/03, 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 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 renews NOA # 03-0929.02 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



**NOA No 07-0130.19  
Expiration Date: June 27, 2012  
Approval Date: March 22, 2007  
Page 1**

**C. P. Loewen Enterprises**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **1096**, Sheets 1 through 6 of 6, titled "Aluminum Clad Wood Impact Outswing Casement Windows", dated 02/01/02 with revision #A4 dated 09/11/03, 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) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
  - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of an aluminum clad wood impact outswing casement window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0286-1222-01**, dated 12/6/01, signed and sealed by Vinu Abraham, P.E. (Submitted under NOA #02-0308.08)

**C. CALCULATIONS**

1. Certification of anchor calculations complying with FBC-2004, prepared by W.W. Schaefer Engineering & Consulting, dated 01/22/07, signed and sealed by Warren W. Schaefer, P.E.
2. **Complies with ASTM E1300-98**
3. Anchor Calculations and structural analysis, prepared by W.W. Schaefer Engineering & Consulting, dated 2/12/02, signed and sealed by Warren W. Schaefer, P.E. *(Submitted under NOA #02-0308.08)*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

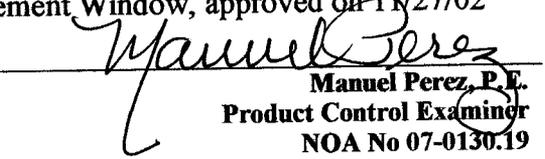
1. Notice of Acceptance No. **03-0417.01** issued to Cardinal LG for "Cardinal Sea-Storm Type B" dated 05/15/03, expiring on 12/30/07.

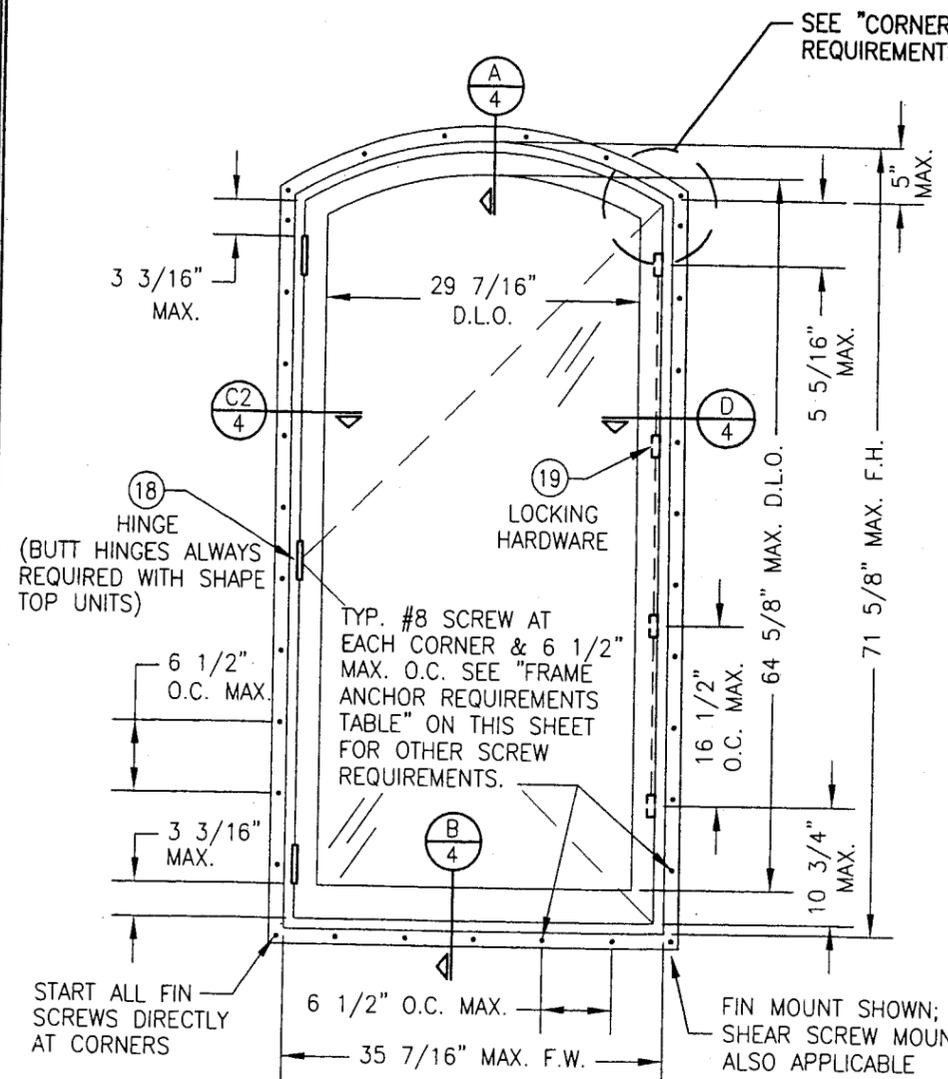
**F. STATEMENTS**

1. Statement letter of conformance, dated January 22, 2007, signed and sealed by Warren W. Schaefer, P.E.

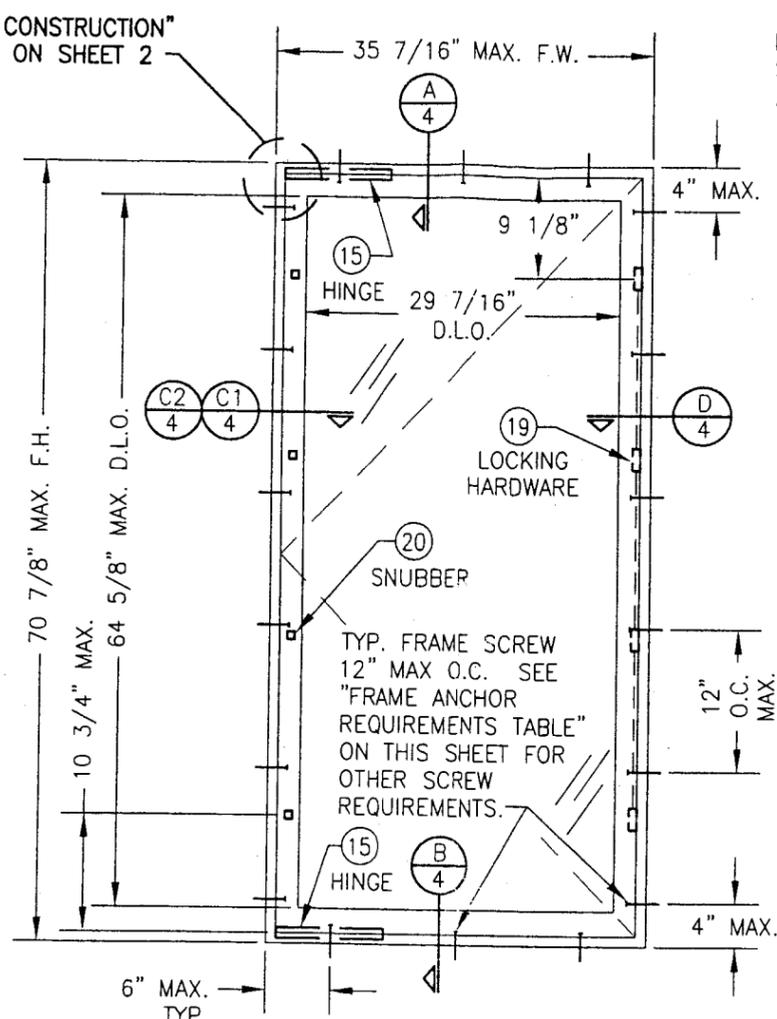
**G. OTHER**

1. Notice of Acceptance No. **03-0929.02**, issued to C. P. Loewen Enterprises for their Aluminum Clad Wood Impact Outswing Casement Window, approved on 11/27/02 and expiring on 06/27/07.

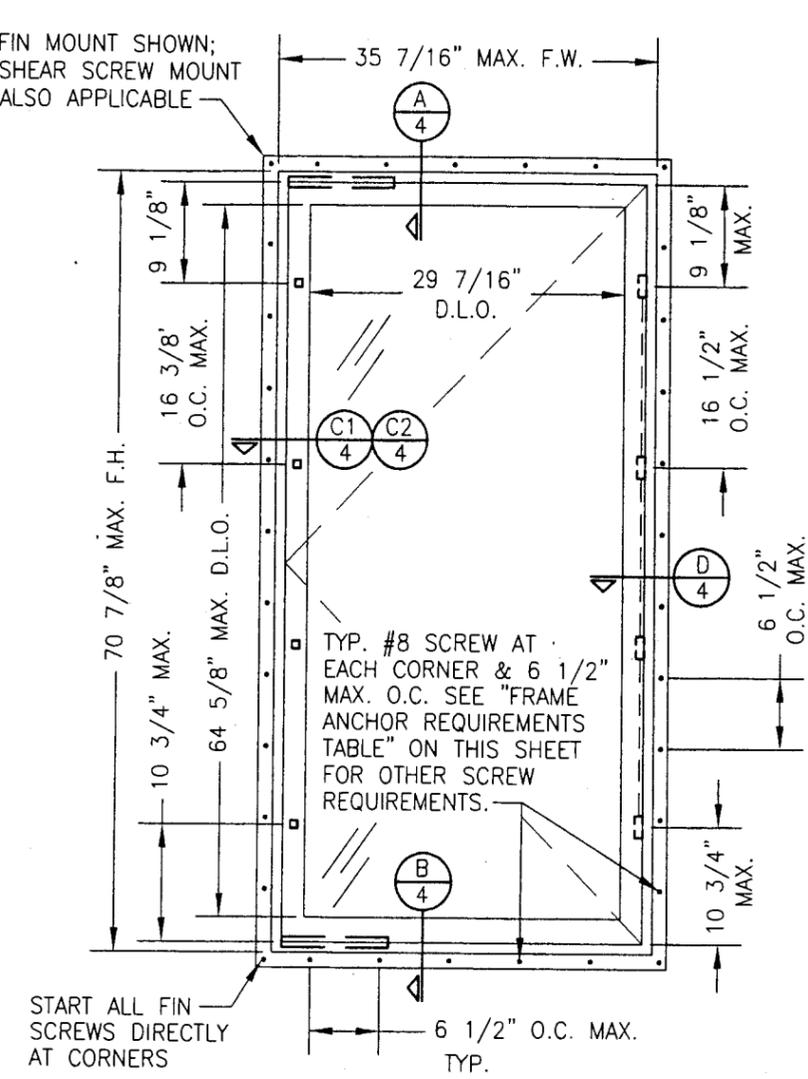
  
**Manuel Perez, P.E.**  
Product Control Examiner  
NOA No 07-0130.19  
Expiration Date: June 27, 2012  
Approval Date: March 22, 2007



**EXTERIOR ELEVATION  
SINGLE OPERABLE CASEMENT**  
SCALE: 3/4"=1'-0"  
(NAIL FIN MOUNT SHOWN;  
SEE OTHER ELEVATION FOR  
APPLICABLE SHEAR SCREW MOUNT)



**EXTERIOR ELEVATION  
SINGLE OPERABLE CASEMENT**  
SCALE: 3/4"=1'-0"  
(SHEAR SCREW MOUNT)



**EXTERIOR ELEVATION  
SINGLE OPERABLE CASEMENT**  
SCALE: 3/4"=1'-0"  
(NAIL FIN MOUNT)

ALLOWABLE DESIGN LOAD	
POSITIVE	NEGATIVE
65 PSF	70 PSF

BUTT HINGE REQUIREMENT	
WINDOW HEIGHT	MIN. NUMBER OF HINGES
42" TO 72"	3
LESS THAN 42"	2

FRAME ANCHOR REQUIREMENTS TABLE			
* SHEAR SCREWS			
OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK	NO. 10 SMS SCREW	1 1/4"	3/4"
CMU/CONCRETE	(1) 3/16" CONCRETE SCREWS	1 1/4"	1 7/8"

LOCK & SNUBBER REQUIREMENTS	
WINDOW HEIGHT	NUMBER OF TRUTH LOCKS AND TRUTH SNUBBERS REQUIRED
55" TO 72"	4
39" TO 54"	3
20" TO 38"	2
LESS THAN 19"	1

FIN SCREWS			
OPENING TYPE (SUBSTRATE)	FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK	NO. 8 SMS SCREW	1 3/8"	1/2"

\* ANCHOR NOTE: FRAME MAY BE EITHER DIRECT MOUNTED TO THE OPENING, MOUNTED ONTO A CONTINUOUS WOOD SPACER, OR ANCHORED TO A MIN. 2x4 NO. 2 SOUTHERN PINE WOOD BUCK. WHEN ANCHORED THROUGH JAMB TO A 2x4 BUCK, NO. 10 SCREWS SHALL BE USED. WHEN ANCHORED WITH A NAIL FIN INTO 2x4 BUCK, NO. 8 SCREWS SHALL BE USED. WHEN DIRECT MOUNTED OR MOUNTED WITH SPACER, 3/16" CONCRETE SCREWS SHALL BE USED. SEE "ANCHOR REQUIREMENTS TABLE" FOR EMBED REQUIREMENTS. PROPER MATERIAL SHALL BE USED BETWEEN ALL DISIMILAR MATERIALS (BLOCK/CONCRETE & ALUMINUM).

**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.) FOR HIGH VELOCITY HURRICANE ZONE AREAS.
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.

DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 02/01/02
BY K.P.S.	DATE 09/11/03
DESCRIPTION ADDED TRANSOM ELEVATIONS	DATE 09/11/03
NO. A1	DESCRIPTION ADDED TRANSOM SECTIONS
NO. A2	DESCRIPTION ADDED ALT. MILLION FASTENERS
NO. A3	DESCRIPTION ADDED ALT. MILLION FASTENERS
NO. A4	DESCRIPTION ADDED ALT. MILLION FASTENERS

**ALUMINUM CLAD WOOD IMPACT OUTSWING CASEMENT WINDOWS**

**MANUFACTURER**  
C.P. LOEWEN ENTERPRISES  
77 P.T.H 52 WEST, BOX 2260  
STEINBACH, MB CANADA ROA 2A0  
204-326-6446

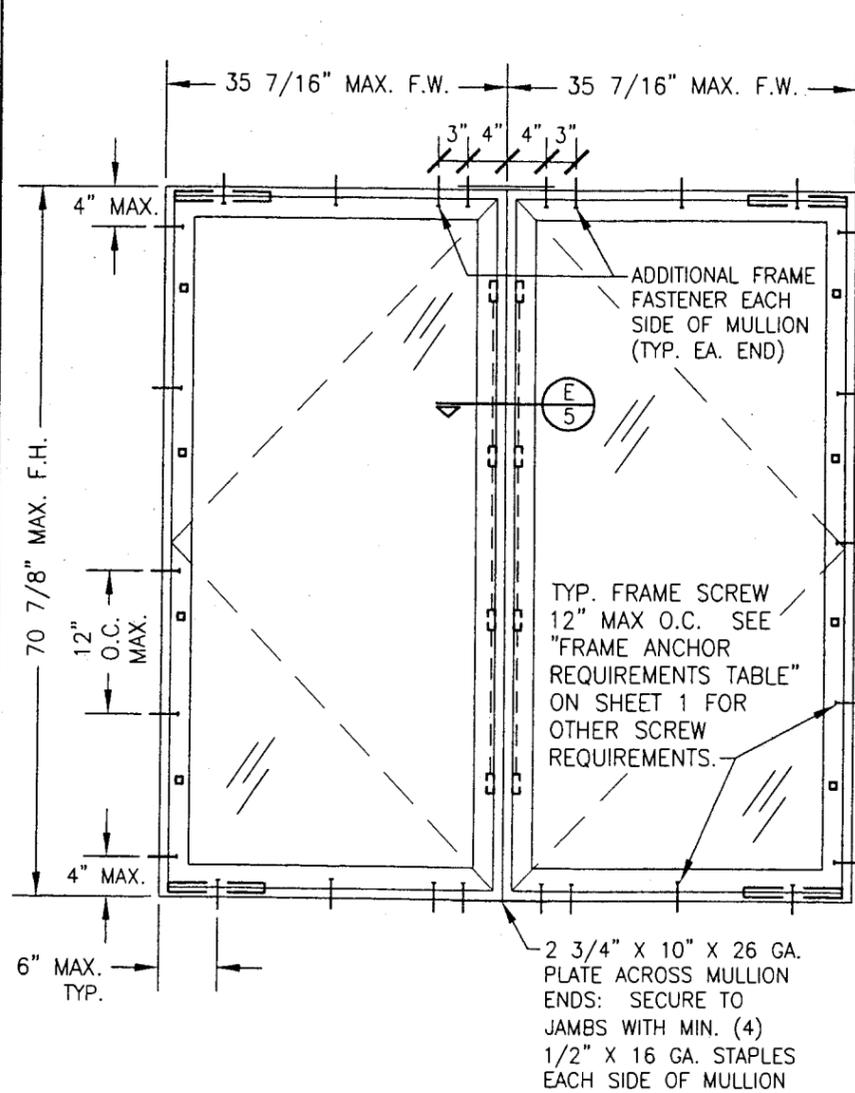
**CONSULTANTS**  
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.  
8895 N. MILITARY TRAIL, SUITE C-204  
PALM BEACH GARDENS, FL 33410  
PHONE: 561-775-4902 FAX: 561-775-4903

**CERTIFICATION**  
SEP 19 2003

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No 03-0929.02  
Expiration Date 06/23/07

**PRODUCT RENEWED**  
as complying with the Florida Building Code  
Acceptance No 07-0130.19  
Expiration Date JUNE 27, 2012

DRAWING NO. 1096  
REV. A  
SHEET NO. 1 OF 6



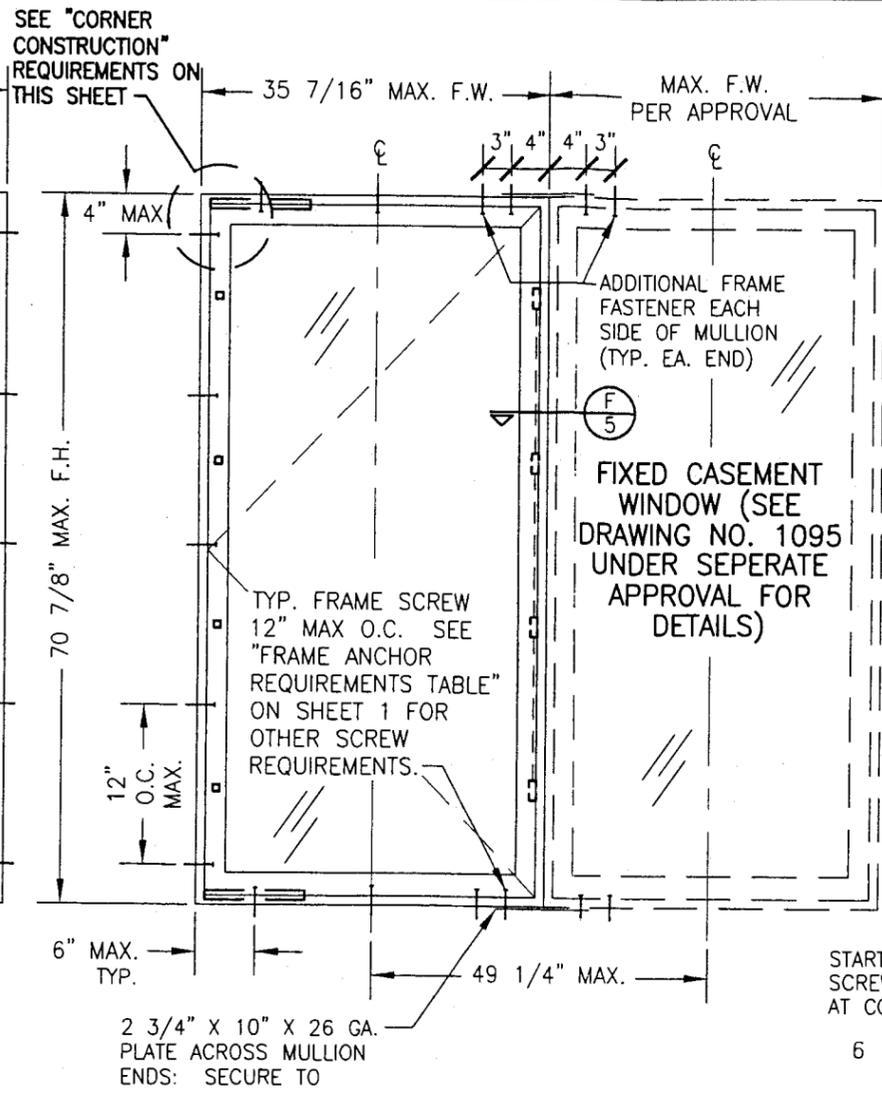
**EXTERIOR ELEVATION  
MULTIPLE OPERABLE CASEMENTS  
(MAX. FOUR WINDOWS MAY BE COMBINED)  
N.T.S.**

SHEAR SCREW MOUNT CONDITION SHOWN:  
SEE OPERABLE CASEMENT/PICTURE WINDOW  
ELEVATION FOR APPLICABLE FIN MOUNT CONDITION  
(FOR DETAIL NOT SHOWN SEE ELEVATIONS ON SHEET 1)

**CORNER CONSTRUCTION:**

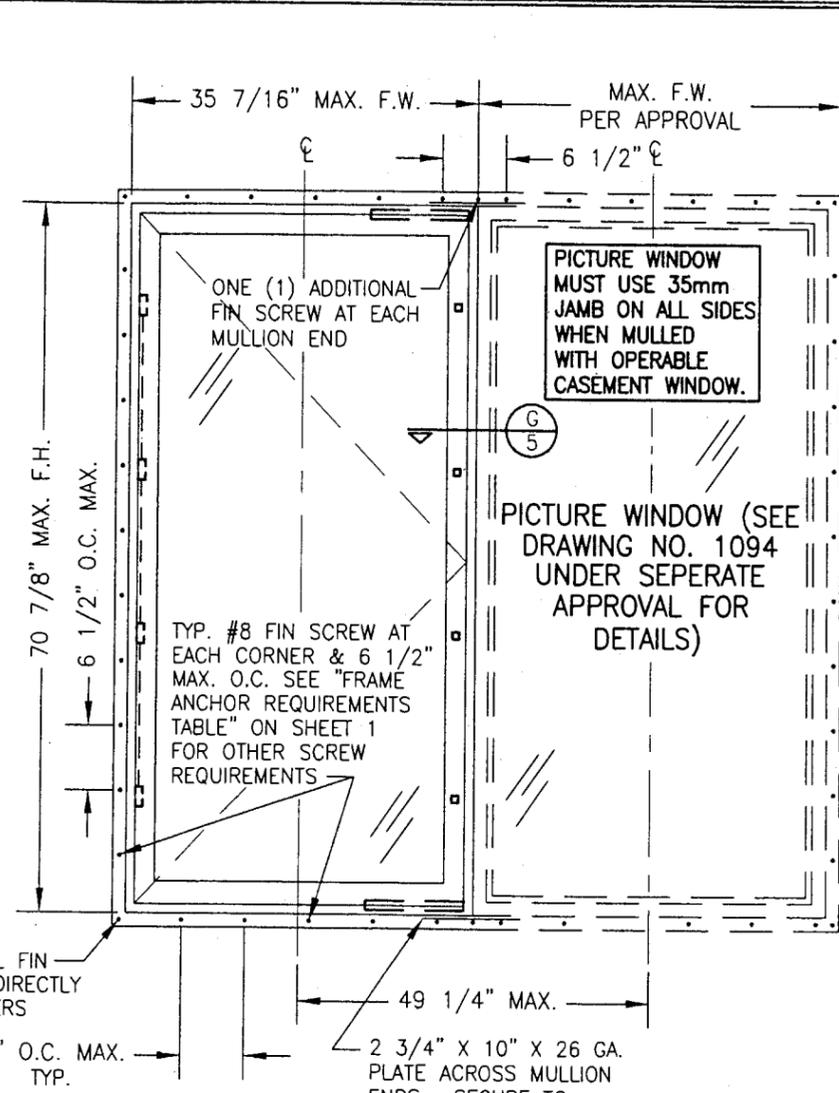
**SASH:** WOOD MEMBERS ARE DOUBLE ENDED FOR TENON JOINT AND MECHANICALLY FASTENED USING TWO (2) 16 GA. 1 1/4" FINISH NAILS PER CORNER. THE SASH CLADDING IS SNAPPED ONTO MEMBER AND FASTENED USING 16 GA. X 3/4" BRAD NAILS 1" FROM CORNERS & 6" O.C. THEN SEALED WITH TREMFLEX 834.

**JAMB:** WOOD MEMBERS ARE COPED, SEALED, BUTTED TOGETHER AND MECHANICALLY FASTENED USING THREE (3) 1 3/4" 16 GA. STAPLES HORIZONTALLY AND TWO (2) 1 3/4" 16 GA. STAPLES VERTICALLY. SCHNEE-MOREHEAD SM7100 CAULK IS APPLIED TO THE SEAM PRIOR TO JOINING THE WOOD MEMBERS. THE CLAD IS MITERED, GASKETED WITH A CLOSED CELL FOAM 1/16" THICK THEN BUTTED TOGETHER AND MECHANICALLY FASTENED USING ONE (1) #6 X 1 1/2" S.M.S. SCREW PER CORNER. TREMFLEX 834 IS THEN APPLIED TO THE CLAD SEAM.



**EXTERIOR ELEVATION  
MULTIPLE OPERABLE/FIXED CASEMENTS  
(MAX. FOUR WINDOWS MAY BE COMBINED)  
(ANY COMBINATION)  
N.T.S.**

SHEAR SCREW MOUNT CONDITION SHOWN:  
SEE OPERABLE CASEMENT/PICTURE WINDOW  
ELEVATION FOR APPLICABLE FIN MOUNT CONDITION  
(FOR DETAIL NOT SHOWN SEE ELEVATIONS ON SHEET 1)



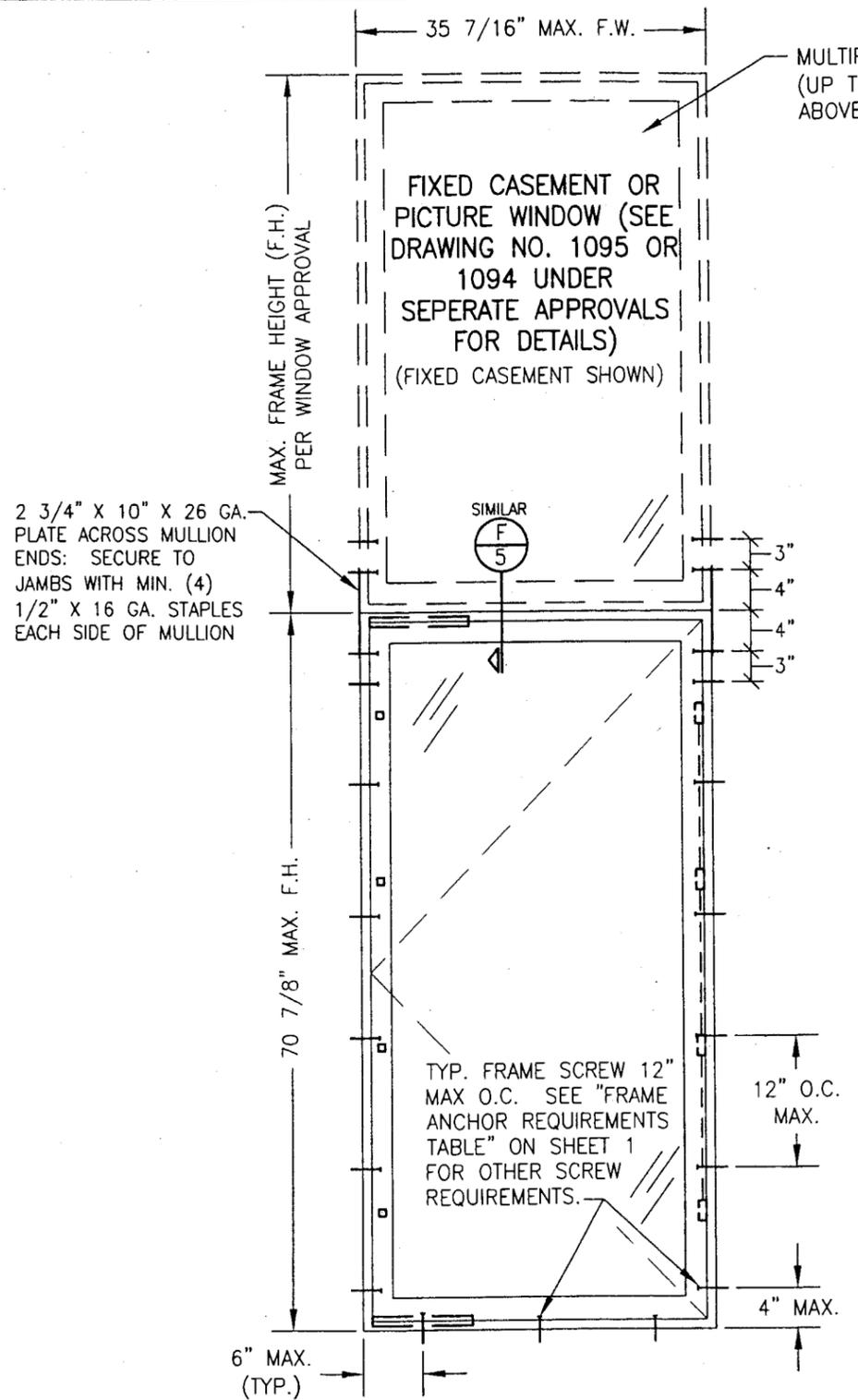
**EXTERIOR ELEVATION  
MULTIPLE OPERABLE CASEMENTS/PICTURE WINDOWS  
(MAX. FOUR WINDOWS MAY BE COMBINED)  
(ANY COMBINATION)  
N.T.S.**

FIN MOUNT CONDITION SHOWN:  
SEE OPERABLE/FIXED CASEMENT  
ELEVATION FOR APPLICABLE SHEAR  
SCREW MOUNT CONDITION  
(FOR DETAIL NOT SHOWN SEE ELEVATIONS ON SHEET 1)

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 07-0130-19  
Expiration Date JUNE 21, 2012  
By *Manuel Perez*  
Miami Dade Product Control  
Division

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 03-0929-02  
Expiration Date 06/23/07  
By *Glenn B. ...*  
Miami Dade Product Control  
Division

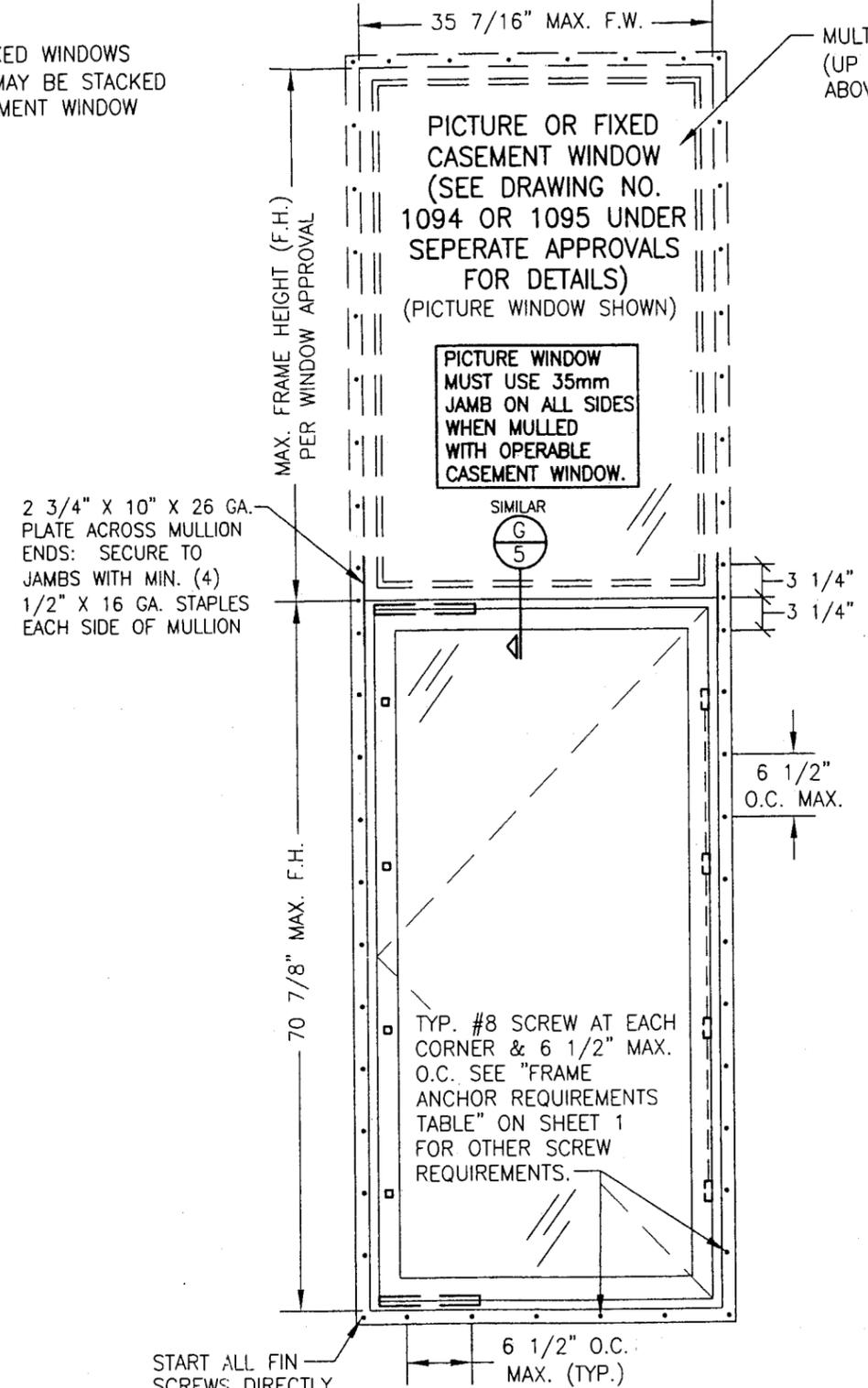
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PLOT: 1x16	DATE: 02/01/02
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUTSWING CASEMENT WINDOWS	
MANUFACTURER	C.P. LOEWEN ENTERPRISES 77 P.T.H 52 WEST, BOX 2260 STEINBACH, MB CANADA ROA 2A0 204-326-6446
CONSULTANTS	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	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	REV.
1096	A
SHEET NO.	
2 OF 6	



**EXTERIOR ELEVATION**  
**SINGLE OPERABLE CASEMENT WITH TRANSOM**  
 SCALE: 3/4"=1'-0"

(SHEAR SCREW MOUNT)

SHEAR SCREW MOUNT CONDITION SHOWN:  
 SEE OTHER TRANSOM UNIT ELEVATION FOR  
 APPLICABLE FIN MOUNT CONDITION  
 (FOR DETAIL NOT SHOWN SEE ELEVATIONS ON SHEET 1)



**EXTERIOR ELEVATION**  
**SINGLE OPERABLE CASEMENT WITH TRANSOM**  
 SCALE: 3/4"=1'-0"

(NAIL FIN MOUNT)

FIN MOUNT CONDITION SHOWN: SEE OTHER  
 TRANSOM UNIT ELEVATION FOR APPLICABLE  
 SHEAR SCREW MOUNT CONDITION  
 (FOR DETAIL NOT SHOWN SEE ELEVATIONS ON SHEET 1)

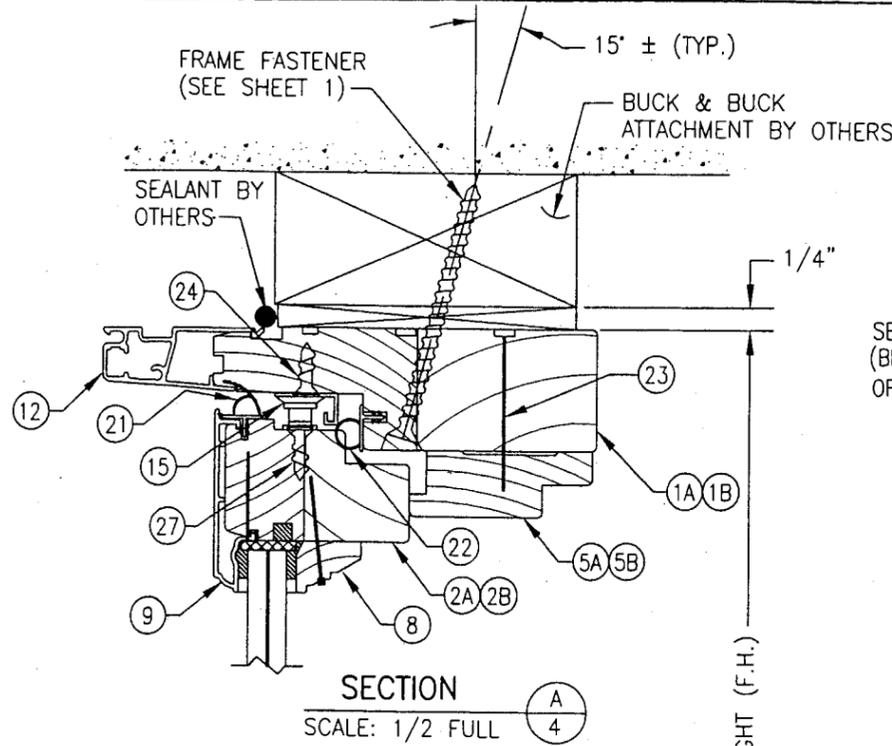
**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 07-0130-19  
 Expiration Date JUNE 27, 2012

By *Manuel Perez*  
 Miami Dade Product Control  
 Division

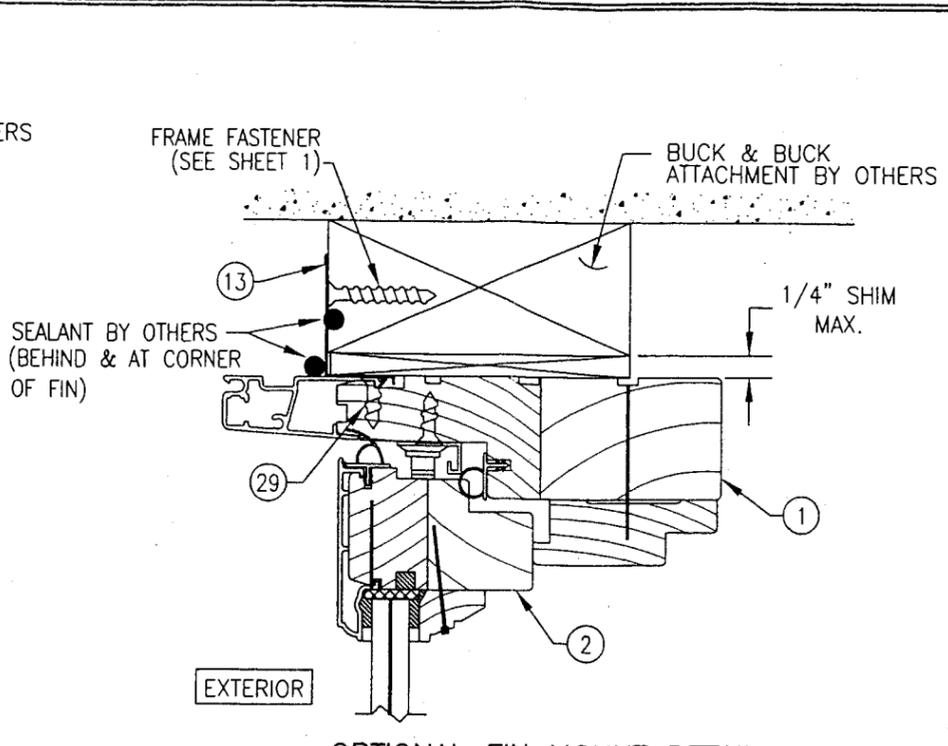
**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 03-0929-02  
 Expiration Date 06/27/07

By *Clara Berman*  
 Miami Dade Product Control  
 Division

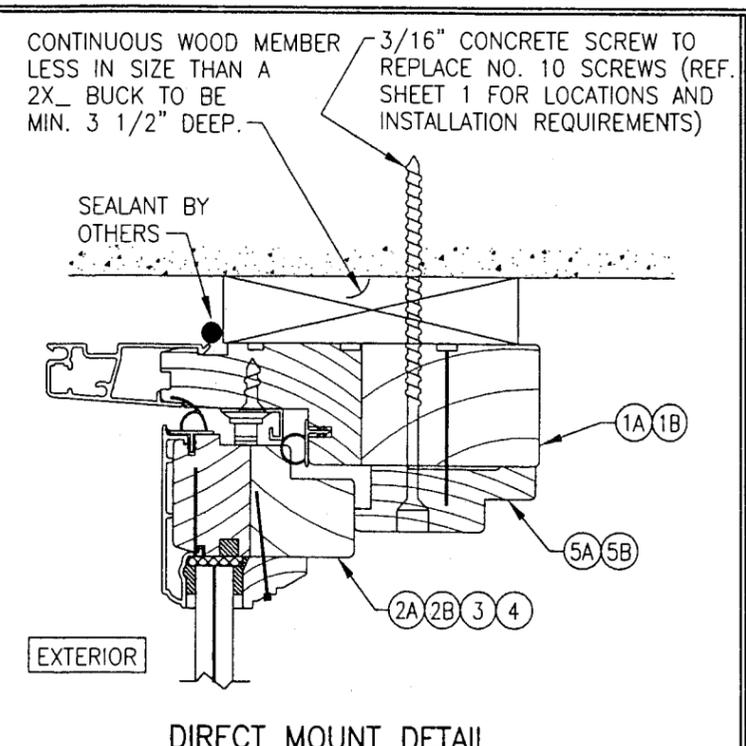
DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 02/01/02
NO.	REVISION DESCRIPTION
BY	DATE
DRAWING TITLE <b>ALUMINUM CLAD WOOD IMPACT OUTSWING CASEMENT WINDOWS</b>	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	MANUFACTURER <b>C.P. LOEWEN ENTERPRISES</b> 77 P.T.H 52 WEST, BOX 2260 STEINBACH, MB CANADA ROA 2A0 204-326-6446
CERTIFICATION <b>SEP 19 2003</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO. <b>1096</b> REV. <b>A</b>
SHEET NO. <b>3</b> OF <b>6</b>	



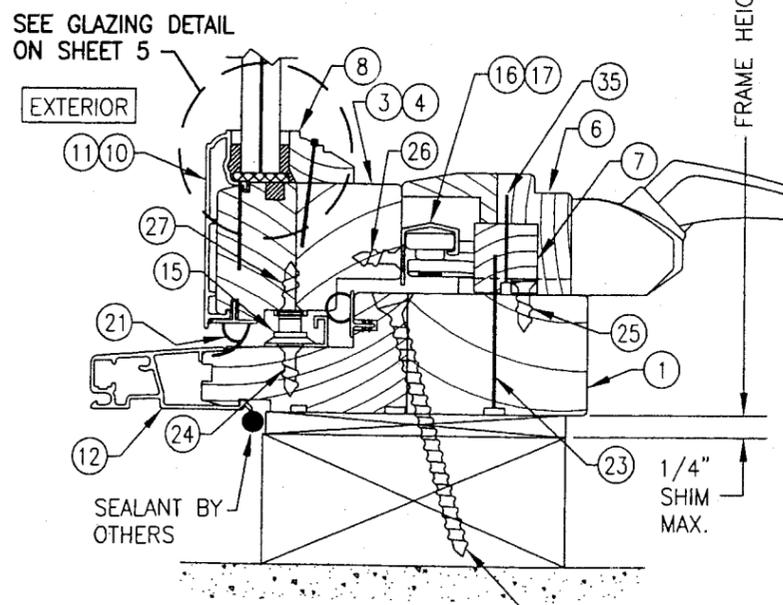
SECTION A  
SCALE: 1/2 FULL  
4



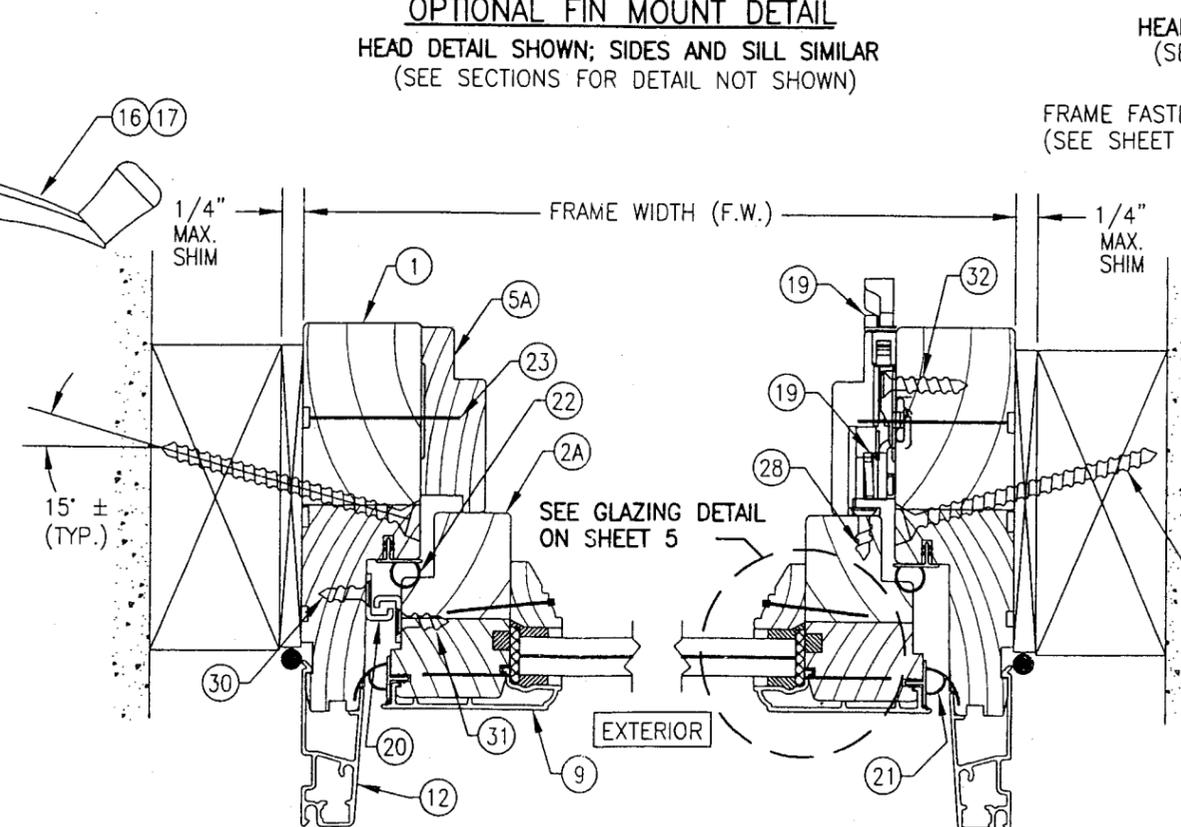
OPTIONAL FIN MOUNT DETAIL  
HEAD DETAIL SHOWN; SIDES AND SILL SIMILAR  
(SEE SECTIONS FOR DETAIL NOT SHOWN)



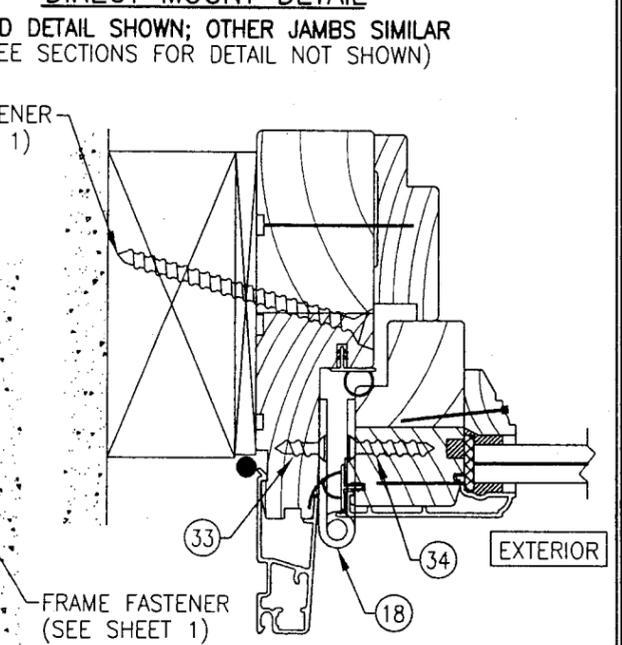
DIRECT MOUNT DETAIL  
HEAD DETAIL SHOWN; OTHER JAMES SIMILAR  
(SEE SECTIONS FOR DETAIL NOT SHOWN)



SECTION B  
SCALE: 1/2 FULL  
4



SECTION C1  
SCALE: 1/2 FULL  
4



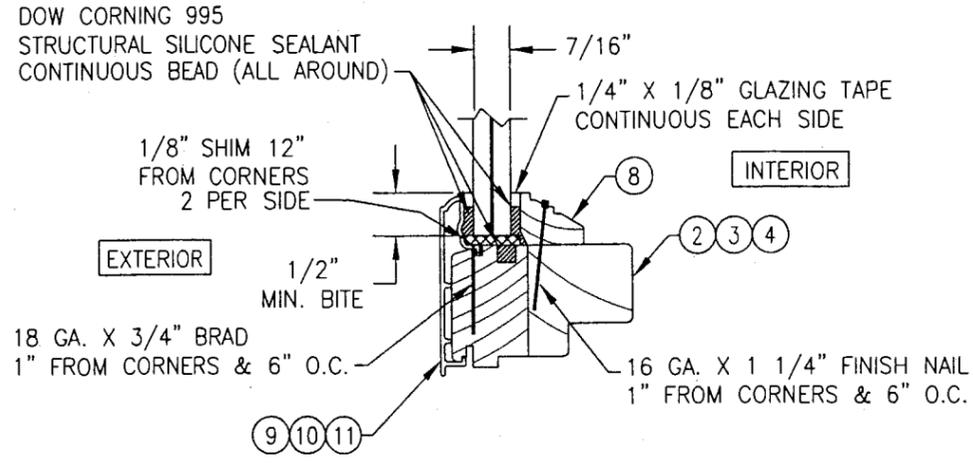
SECTION C2  
SCALE: 1/2 FULL  
4

(SAME AS SECTION C1; WITH BUTT HINGE)  
(SEE SECTION "C1" FOR DETAIL NOT SHOWN)

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 07-0130.19  
Expiration Date JUNE 27, 2012  
By: *Manuel Serey*  
Miami Dade Product Control  
Division

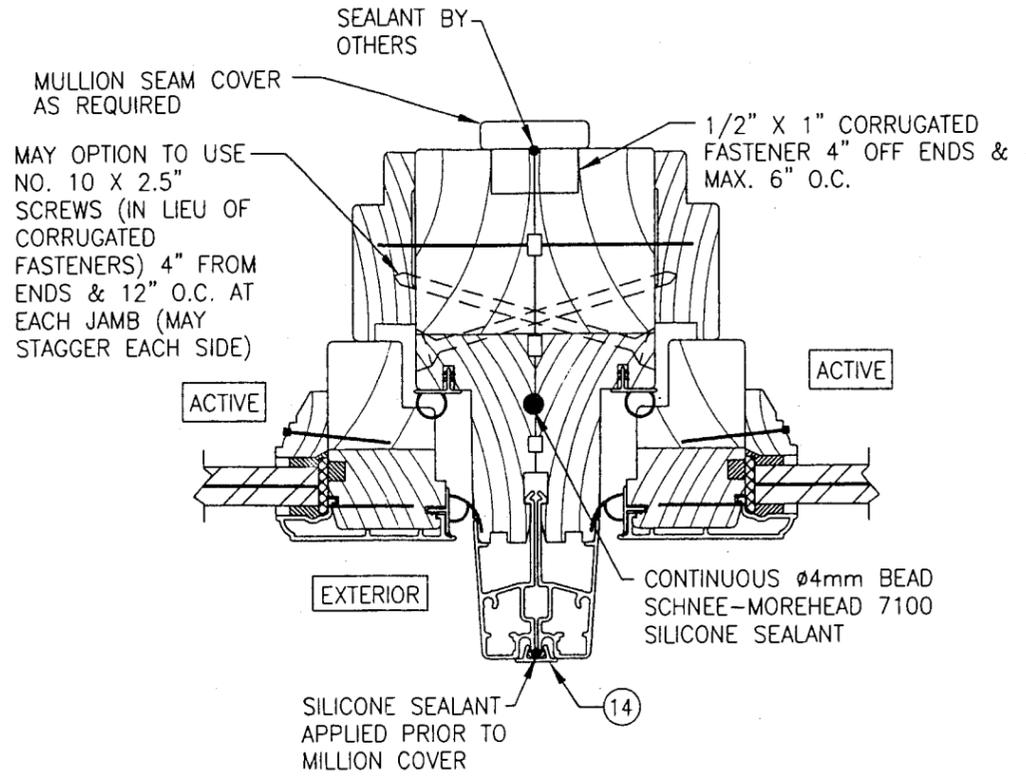
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 03-0929.02  
Expiration Date 06/23/07  
By: *Warren W. Schaefer*  
Miami Dade Product Control  
Division

DRAWING TITLE		DRAWN BY:		CHECKED BY:	
ALUMINUM CLAD WOOD IMPACT OUTSWING CASEMENT WINDOWS		J.C.F.		W.M.S.	
CONSULTANTS		PLOT:		DATE:	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		1-2		02/01/02	
MANUFACTURER		DATE		DATE	
C.P. LOEWEN ENTERPRISES					
77 P.T.H 52 WEST, BOX 2260		BY		BY	
STEINBACH, MB CANADA ROA 2A0					
204-326-6446		REVISION DESCRIPTION		NO.	
		NO.		NO.	
CERTIFICATION		DRAWING NO.		REV.	
SEP 19 2003		1096		A	
WARREN W. SCHAEFER, P.E.		SHEET NO.		4 OF 6	
P.E. NO/ 44135					



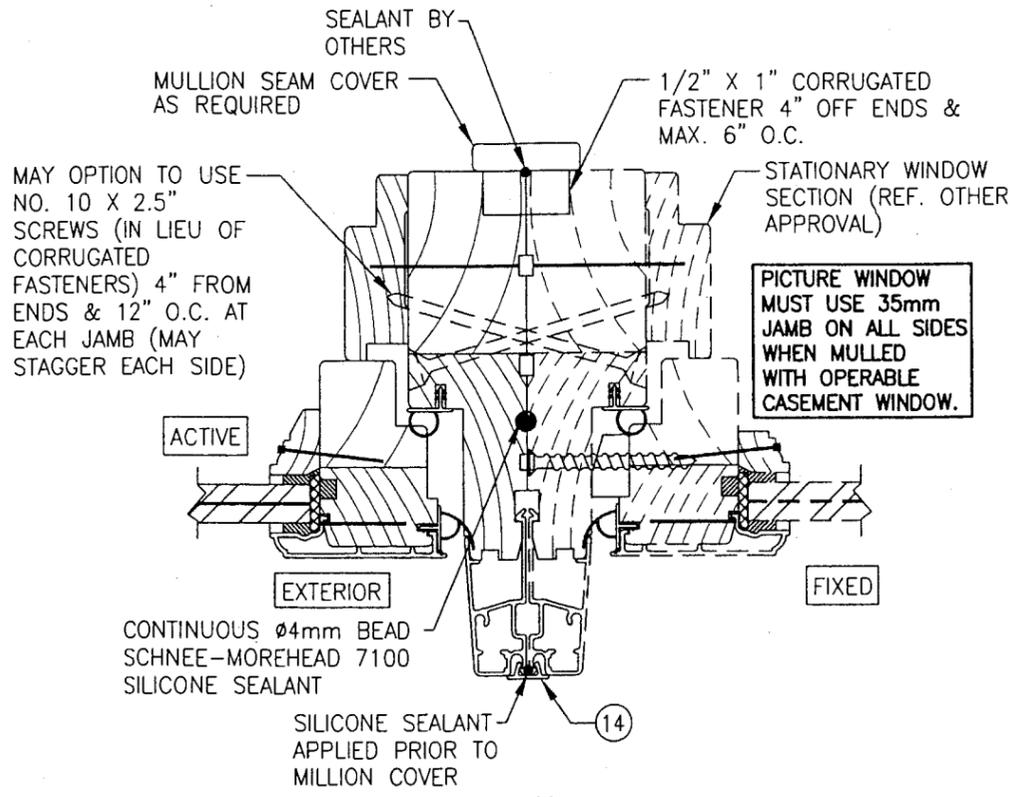
**GLAZING DETAIL**

7/16" CARDINAL SEASTORM TYPE "B" LAMINATED GLASS  
(3/16" AN/0.015 PVB/0.007 PET/0.075 PVB/3/16" AN)



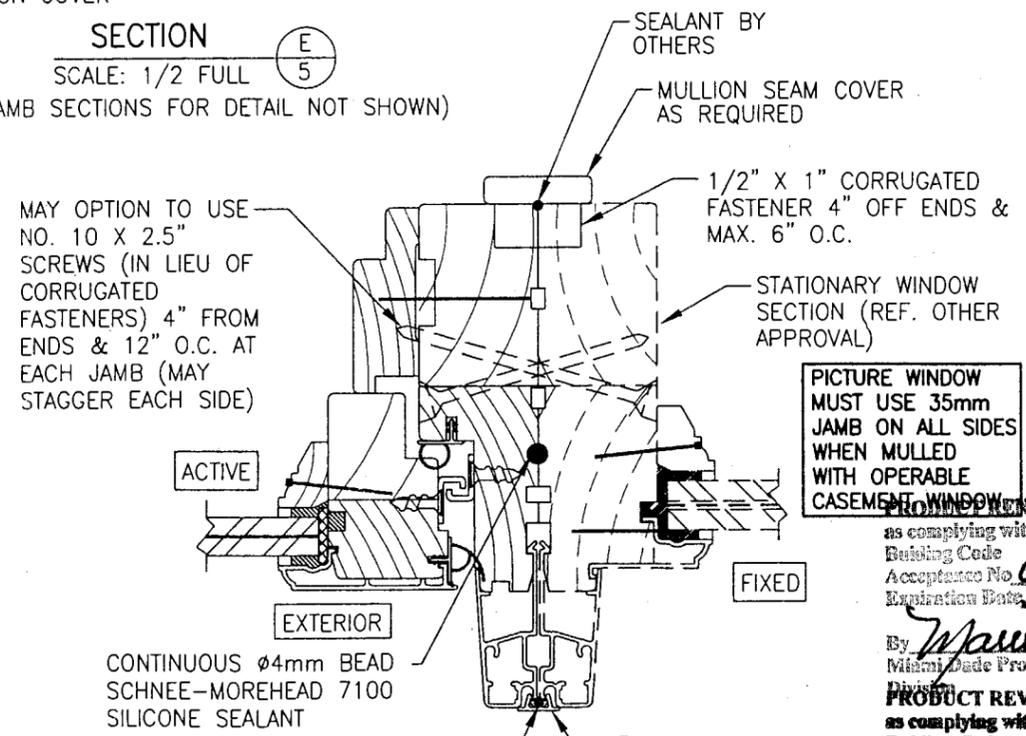
**SECTION E**

SCALE: 1/2 FULL  
(SEE JAMB SECTIONS FOR DETAIL NOT SHOWN)



**SECTION F**

SCALE: 1/2 FULL  
(SEE JAMB SECTIONS FOR DETAIL NOT SHOWN)



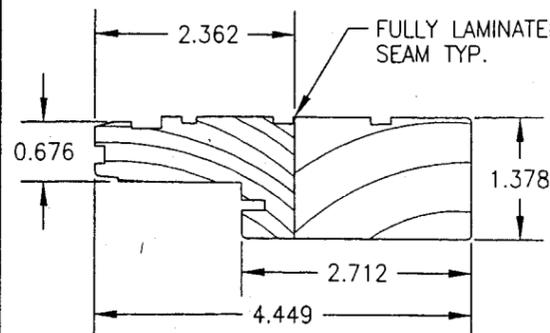
**SECTION G**

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(SEE JAMB SECTIONS FOR DETAIL NOT SHOWN)

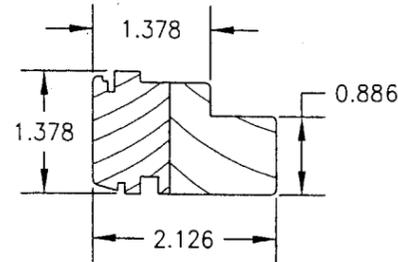
**PROVIDED**  
as complying with the Florida Building Code  
Acceptance No. 07-0130-19  
Expiration Date JUNE 29, 2012  
By *Manuel Diaz*  
Miami Dade Product Control  
**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 03-0929-02  
Expiration Date 06/23/07  
By *Charles...*  
Miami Dade Product Control  
Division

DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 02/01/02
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE <b>ALUMINUM CLAD WOOD IMPACT OUTSWING CASEMENT WINDOWS</b>	
MANUFACTURER <b>C.P. LOEWEN ENTERPRISES</b> 77 P.T.H 52 WEST, BOX 2260 STEINBACH, MB CANADA ROA 2A0 204-326-6446	CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903
DRAWING NO. REV. <b>1096 A</b>	
SHEET NO. <b>5 OF 6</b>	

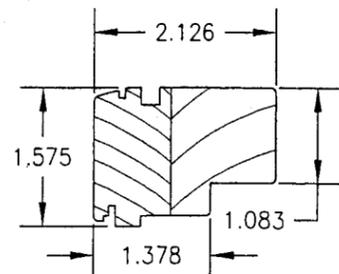
CERTIFICATION  
 SEP 19 2003  
 WARREN W. SCHAEFER, P.E.  
 P.E. NO. 44135



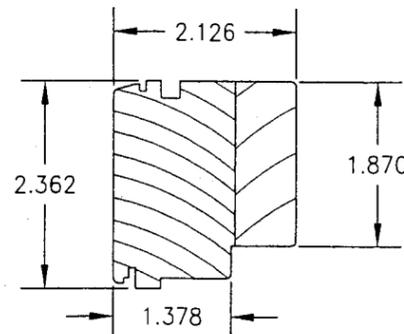
1A 1B HEAD JAMB/STD. SILL



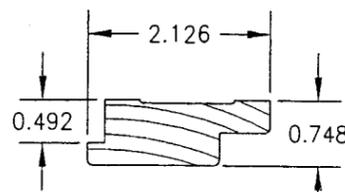
2A 2B TOP RAIL/STILE/'MISSION' STILE



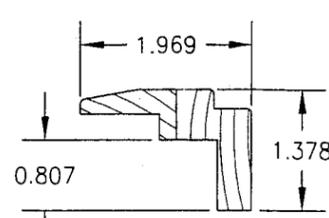
3 BOTTOM RAIL



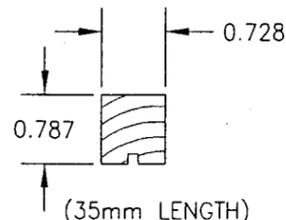
4 MISSION BOTTOM RAIL



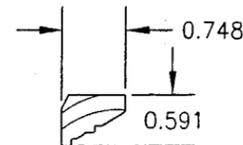
5A 5B HEAD/SIDE JAMB MOULDING



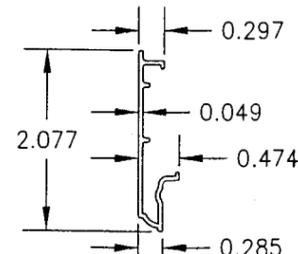
6 SILL COVER



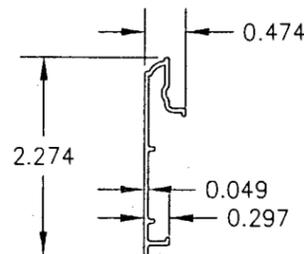
7 SILL BLOCK



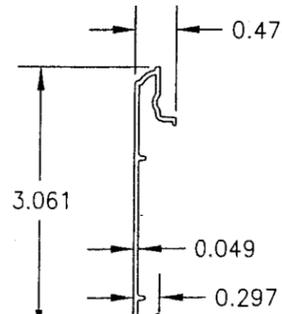
8 INT. GLAZING STOP



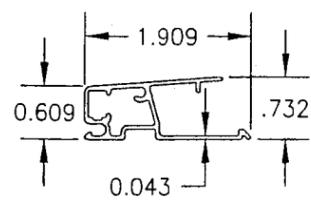
9 TOP RAIL/STILE CLAD



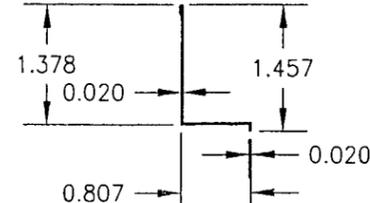
10 BOT. RAIL CLAD



11 'MISSION' RAIL CLAD



12 FRAME CLAD

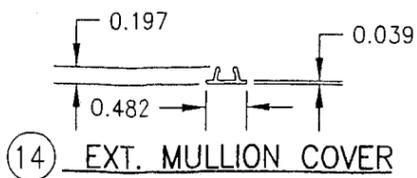


13 NAILING FIN

ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1A	2824/2826	HEAD JAMB/STANDARD SILL (STRAIGHT MEMBER)	DOUGLAS FIR
1B	2824	HEAD JAMB (RADIAL MEMBER)	DOUGLAS FIR (LAMINATED)
2A	2806/2810/2878	TOP RAIL/STILE/'MISSION' STILE (STRAIGHT MEMBER)	DOUGLAS FIR
2B	2806	TOP RAIL (RADIAL MEMBER)	DOUGLAS FIR (LAMINATED)
3	2808	BOTTOM RAIL	DOUGLAS FIR
4	2880	'MISSION' BOTTOM RAIL	DOUGLAS FIR
5A	2834/2836	HEAD/SIDE MOULDING (STRAIGHT MEMBER)	DOUGLAS FIR
5B	2834	HEAD MOULDING (RADIAL MEMBER)	DOUGLAS FIR (LAMINATED)
6	2838	SILL COVER	DOUGLAS FIR
7	2862	SILL BLOCK	DOUGLAS FIR; 2 PER SILL
8	4493	INTERIOR GLAZING STOP	DOUGLAS FIR
9	2856/2860/2888	TOP RAIL/STILE/'MISSION' STILE CLAD	6060-T5 ALUMINUM
10	2858	BOTTOM RAIL CLAD	6060-T5 ALUMINUM
11	2886	'MISSION' BOTTOM RAIL CLAD	6060-T5 ALUMINUM
12	4930	JAMB CLAD	6060-T5 ALUMINUM
13	4940	APPLIED NAILING FIN	STEEL (Fy = 50 ksi MIN.)
14	4950	EXTERIOR MULLION COVER	6060-T5 ALUMINUM
HARDWARE			
15	-	10" SCISSOR HINGE	TRUTH HW: #14.75
16	-	DUAL ARM OPERATOR; MAXIM	TRUTH HW: # 50-00
17	-	SINGLE ARM OPERATOR	TRUTH HW: # 15-94
18	-	3 1/2" BUTT HINGE (S.S)	DIVERSIFIED PRODUCTS OF CANADA D.P.O.C. # DP3535R14C32DN
19	-	MAX. 4-POINT MIRAGE LOCK/KEEPER	TRUTH HW: KEEPER #11498
20	-	SNUBBER	TRUTH HW: #21642-92
SEALS & SEALANTS			
21	-	SASH WEATHER STRIP (VINYL)	INTEK #50345
22	-	FRAME WEATHERSTRIP (VINYL)	INTEK #30508A
FASTENERS			
23	-	1 3/4" 16 GA. STAPLE	6" FROM CORNER & 6" O.C.
24	-	NO. 7 X 3/4" SCREW	4 PER HINGE INTO JAMB
25	-	NO. 7 X 3/4" SCREW	3 PER OPERATOR TRACK
26	-	NO. 7 X 3/4" SCREW	2 PER OPERATOR GUIDE BRACKET
27	-	NO. 7 X 3/4" SCREW	4 PER HINGE INTO SASH
28	-	NO. 7 X 3/4" SCREW	2 PER LOCK/KEEPER
29	-	NO. 7 X 1/2" SCREW (NAIL FIN TO JAMB)	1" FROM CORNER & 6" O.C.
30	-	NO. 6 X 3/4" SCREW	2 PER SNUBBER TO JAMB
31	-	NO. 6 X 3/4" SCREW	2 PER SNUBBER TO SASH
32	-	NO. 6 X 1" SCREW	AS REQ'D FOR MULTIPOINT LOCK
33	-	NO. 8 X 3/4" SCREW	3 PER HINGE INTO JAMB
34	-	NO. 8 X 1" SCREW	3 PER HINGE INTO SASH
35	-	1" BRAD	1 PER BLOCK

\* WOOD USED WITH TEST UNITS WAS GRADE 2 NORTHERN DOUGLAS FIR. ALTERNATE WOOD SPECIES TO BE APPLICABLE WITH THESE WINDOWS IS MIN. GRADE 2 MAHOGANY, OAK, CHERRY, MAPLE & CYPRUS.

NOTE: ALL WOOD IS RECEIVED BY LOEWEN WINDOWS AS GRADE 2, BUT IS MACHINED BY LOEWEN TO A SELECT GRADE USE.



14 EXT. MULLION COVER

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 07-0130.19  
Expiration Date JUNE 27, 2012  
By *Maureen Perry*  
Miami Dade Product Control  
Division

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 03-0929.02  
Expiration Date 06/23/07  
By *Warren W. Schaefer*  
Miami Dade Product Control  
Division

DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 02/01/02
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUTSWING CASEMENT WINDOWS	
MANUFACTURER C.P. LOEWEN ENTERPRISES 77 P.T.H. 52 WEST, BOX 2260 STEINBACH, MB CANADA ROA 2A0 204-326-6446	
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	
DRAWING NO. 1096	
REV. A	
SHEET NO. 6 OF 6	