



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)

www.buldingcodeonline.com

TRACO Security Windows and Doors, Inc.
71 Progress Avenue
Cranberry Township, PA 16066

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series 2100 Aluminum Horizontal Sliding Window

APPROVAL DOCUMENT: Drawing No. **04-113-0004**, titled "Series 2100 Aluminum Horizontal Sliding Window - Non-Impact Resistant", sheets 1 through 6 of 6, dated 05/07/04 with revision "1" dated 07/25/05, prepared by Frank L. Bennardo, P.E., Inc. Consulting Engineers, signed and sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name:

TRACO
71 Progress Avenue
Cranberry Township, PA 16066

TRACO
2304 Silverdale Road
Johnson City, TN 37601

Security (TRACO)
5100 N.W. 72nd Avenue
Miami, FL 33166

and the following statement: "**Miami-Dade County Product Control Approved**".

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 # 05-0812.04** 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. 07-0309.02
Expiration Date: April 29, 2008
Approval Date: May 10, 2007
Page 1

TRACO Security Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **04-113-0004**, Sheets 1 through 6 of 6, titled "Series 2100 Aluminum Horizontal Sliding Window - Non-Impact Resistant", dated 05/07/04 with revision "1" dated 07/25/05, prepared by Frank L. Bennardo, P.E. Consulting Engineers, signed and sealed by Frank L. Bennardo, P.E.

B. TESTS

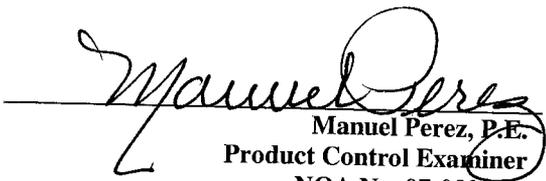
1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per PA 202-94
4) Forced Entry Test, per FBC 2411.3.2.1 (b) and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum horizontal sliding window(XOX), prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-1859**, dated January 5, 1998, re-issued on 2/20/98, signed and sealed by Gilbert Diamond, P.E.
(Submitted under NOA #04-0518.01)
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) Forced Entry Test, per FBC 2411.3.2.1 (b) and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum horizontal sliding window (XO), prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-1944**, dated February 20, 1998, signed and sealed by Gilbert Diamond, P.E.
(Submitted under NOA #04-0518.01)
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
along with marked-up drawings and installation diagram of an aluminum horizontal sliding window, prepared by Farabaugh Engineering and Testing, Inc., Test Report No. **FET-04003**, dated March 26, 2004, signed and sealed by Daniel G. Farabaugh, P.E.
(Submitted under NOA #04-0518.01)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 07-0309.02
Expiration Date: April 29, 2008
Approval Date: May 10, 2007

TRACO Security Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

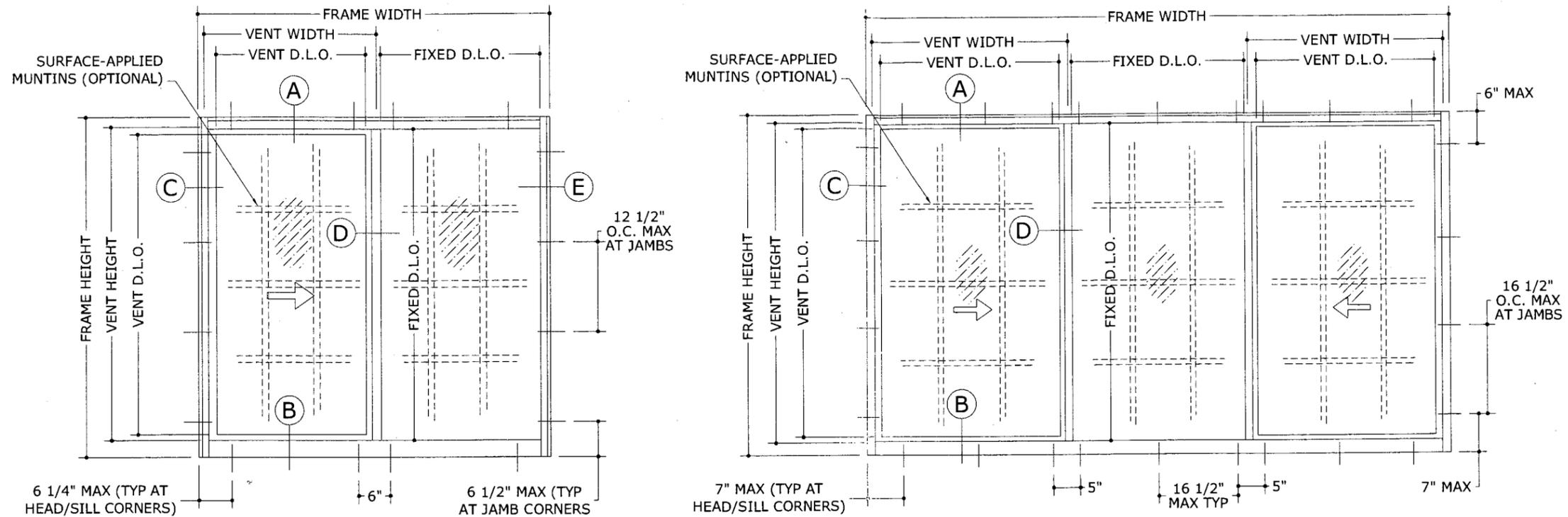
- C. CALCULATIONS**
1. Revised Anchor Calculations, and structural analysis, complying with FBC 2004, prepared by Frank L. Bennardo, P.E. Consulting Engineers, dated 07/19/05, signed and sealed by Frank L. Bennardo, P.E.
Complies with ASTM E1300-98
- D. QUALITY ASSURANCE**
1. Miami Dade Building Code Compliance Office (BCCO).
- E. MATERIAL CERTIFICATIONS**
1. None.
- F. STATEMENTS**
1. Statement letter of conformance, dated May 14, 2004, signed and sealed by Frank L. Bennardo P.E.
 2. Statement letter of no financial interest, dated May 14, 2004, signed and sealed by Frank L. Bennardo, P.E.
 3. Statement letter from manufacturer stating that the product has not changed and requesting a One-Year Renewal to allow the time to perform a verification test, dated February 16, 2007, signed by John Heinlein, TRACO Testing Coordinator.
 4. Letter from laboratory confirming manufacturer has contracted and scheduled verification tests, issued by Farabaugh Engineering and Testing, Inc., dated January 24, 2007, signed by Patrick Farabaugh, P.E. Vice President.
- G. OTHER**
1. Notice of Acceptance No. **05-0812.04**, issued to TRACO Windows & Doors for their "Series 2100 Aluminum Horizontal Sliding Window", approved on 11/03/05 and expiring on 04/29/07.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 07-0309.02
Expiration Date: April 29, 2008
Approval Date: May 10, 2007

SERIES 2100 HORIZONTAL SLIDING WINDOW (NON-IMPACT RESISTANT)

FRANK L. BENNARDO, P.E.
PE0046549

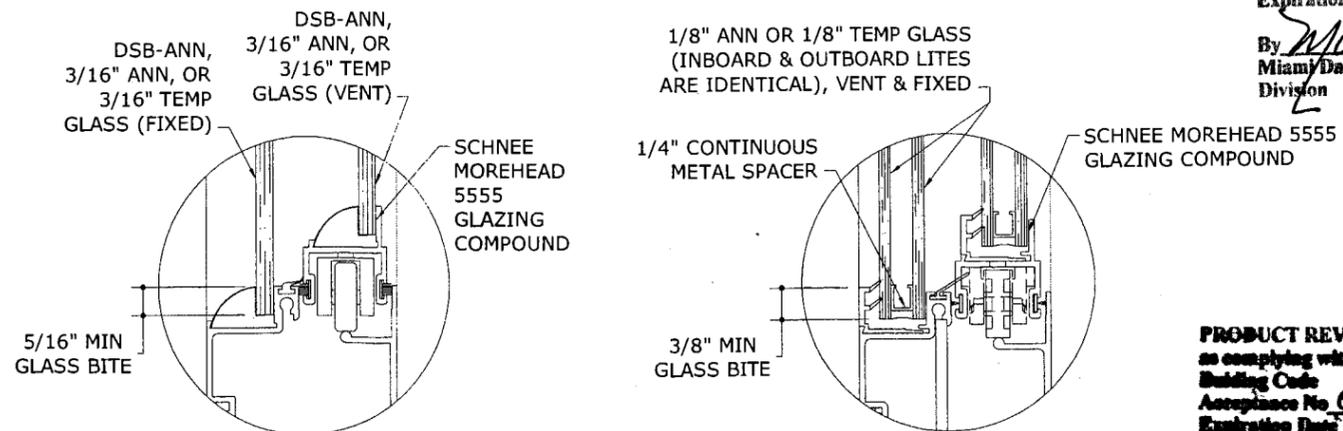
07/25/2005



1 TYPICAL ELEVATIONS
1/2" = 1'-0"

GENERAL NOTES:

- 1) THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 2004 (HIGH VELOCITY HURRICANE ZONE) AND HVHZ TEST PROTOCOLS TAS 201, 202 & 203.
- 2) NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR $C_d=1.6$ HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- 3) POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
- 4) MULTIPLE UNITS MUST BE INSTALLED USING MIAMI-DADE COUNTY BCCO-APPROVED STRUCTURAL MULLIONS (e.g. NOA #01-1218.01 OR #01-1218.02).
- 5) THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- 6) PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS.
- 7) ALL WINDOWS SHALL BE PROTECTED WITH MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS FOR ALL INSTALLATIONS.
- 8) ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED IN ACCORDANCE WITH THE 2001 FLORIDA BUILDING CODE.



2 GLAZING OPTIONS
1 6" = 1'-0"

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 07-0309-02
Expiration Date APR 25, 2008

By *Manuel Perez*
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-0812-04
Expiration Date 04/29/07
By *M. Thomas*
Miami Dade Product Control
Division

FRANK L. BENNARDO, P.E., INC.
CONSULTING ENGINEERS
4441 NORTH DIXIE HIGHWAY
BOCA RATON, FL 33431
(561) 391-2888 FAX: (561) 391-2862
WWW.FLBENGINEERING.COM
CERTIFICATE OF AUTHORIZATION #9885

TRACO
Windows & Doors Inc.
71 Progress Avenue
Cranberry Township, PA 16166
Tel: (724) 776-7000
SERIES 2100 ALUMINUM HORIZONTAL SLIDING WINDOW
NON-IMPACT RESISTANT

REMARKS	INIT	ISSUE	DATE
	DWN	CHKD	DATE
	CL	FLB	5/7/04
	CL	FLB	7/25/05

04-113-0004

PAGE SCALE:
DESCRIPTION:

07/25/2005

MATERIALS LIST

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	050-00-366	1	FRAME HEAD	6063-T6	-
2	050-00-220	1	FRAME SILL	6063-T5	-
3	050-00-367	2	FRAME JAMB	6063-T6	-
4	050-00-119	1/ VENT	FIXED RAIL	6063-T6	-
5	051-00-165	1/ VENT	VENT MEETING RAIL	6063-T6	-
6	050-00-160	2/ VENT	TOP AND BOTTOM RAIL	6063-T6	-
7	051-00-102	1/ VENT	JAMB STILE	6063-T6	-
8	-	AS REQD.	FRAME ASSEMBLY SCREW	-	#8 X 3/4" P.H. PHILLIPS SMS
9	004-00-008	-	GLAZING BEAD	ALUMINUM	ROLL FORMED
10	-	AS REQD.	FIX. RAIL SILL SCREWS	-	#8 X 2" SMS
10A	-	AS REQD.	FIX. RAIL HEAD SCREWS	-	#8 X 1" SMS
11	-	AS REQD.	VENT ASSEMBLY SCREWS	-	#10 X 1" P.H. SMS
12	051-00-353	-	SILL ADD-ON RISER	6063-T6	-
13	-	2/ VENT	PLASTIC ROLLERS IN PLASTIC HOUSING	-	SECURITY
14	-	2/ VENT	SWEEP LOCK AT 6-3/4" FROM ENDS	-	SECURITY
15	046-00-050	AS REQD.	BULB WEATHERSTRIPPING (.156 X .300)	VINYL	WIBORG #9814
16	046-00-017	AS REQD.	FLAP WEATHERSTRIPPING (.210 X .490)	VINYL	WIBORG #2189
17	046-00-030	AS REQD.	FLAP WEATHERSTRIPPING (.170 X .450)	VINYL	WIBORG #2205
18	046-00-038	AS REQD.	FLAP WEATHERSTRIPPING (.185 X .500)	VINYL	WIBORG #2188
19	047-00-001	AS REQD.	PILE WITH FIN SEAL (.187 X .170)	-	AMESBURY #17317-187
20	-	AS REQD.	2" X 1-1/4" X 1/8" PLATE	6063-T5	BELOW EACH FIX. MTG. RAIL
21	046-00-300	-	PVC GLAZING BEAD	PVC	-
22	-	AS REQD.	1/4" CONTINUOUS METAL SPACER	-	-

WOOD BUCKS, NOT BY TRACO, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

SEALANT:

ALL FRAME AND VENT CORNERS AND HEADS OF INSTALLATION SCREWS AT SILL SHALL BE SEALED WITH SCHNEE MOREHEAD 5504 SEALANT.

WEEPHOLES:

(3) 1" x 3/8" WEEPHOLES ("W1") PER VENT SILL AT 5" FROM VENT ENDS AND AT MID-WIDTH.

TYPICAL ANCHORS:

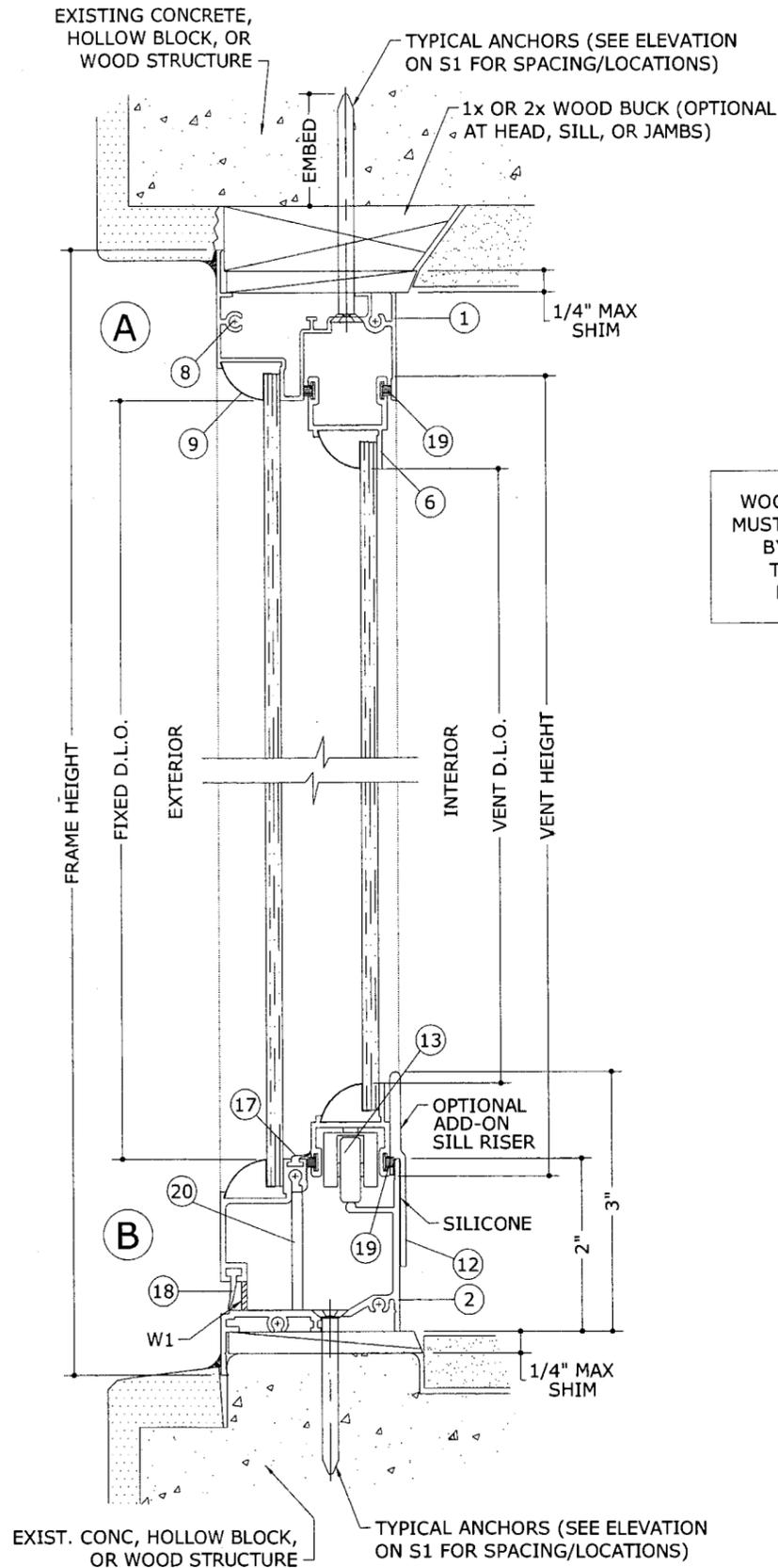
- 1) 3/16" TAPCONS (BY ELCO OR ITW) OR EQUIV CONC ANCHOR HOLDING CURRENT NOTICE OF ACCEPTANCE.
 - INTO 2x WOOD BUCKS OR WOOD STRUCTURE (1-3/8" MIN PENETRATION INTO WOOD).
 - THRU 1x WOOD BUCKS INTO MASONRY OR DIRECTLY INTO MASONRY (1-1/4" MIN EMBED INTO CONCRETE OR MASONRY).

ANCHOR NOTES:

- 1) ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- 2) WOOD BUCKS (NOT BY THIS MANUFACTURER) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- 3) WOOD BUCKS AND/OR HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
- 4) ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN HEREIN. MINIMUM EDGE DISTANCE AND EMBEDMENT TO BASE STRUCTURE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- 5) WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 07-0309-07
Expiration Date APRIL 25, 2008
By: *Manuel Sere*
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-0812-04
Expiration Date 04/29/07
By: *M. Stahl*
Miami Dade Product Control
Division



1
3
SINGLE GLAZED VERTICAL SECTION
6" = 1'-0"

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07/25/2005 - 2:59pm
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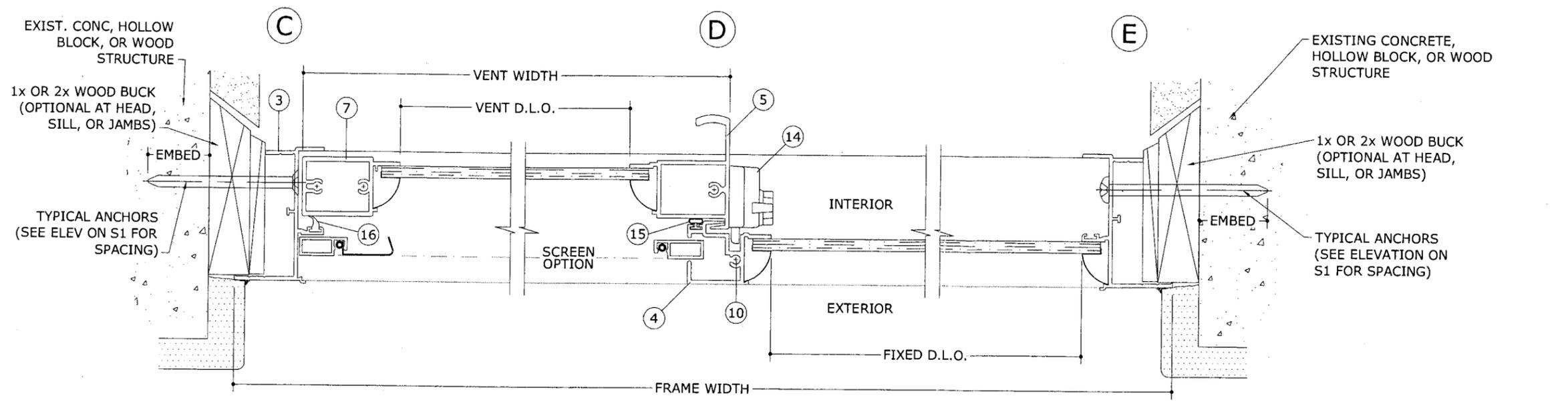
FRANK L. BENNARDO, P.E., INC.
CONSULTING ENGINEERS
4441 NORTH DIXIE HIGHWAY
BOCA RATON, FL 33431
(561) 391-2888 FAX: (561) 391-2862
WWW.FLBENGINEERING.COM
CERTIFICATE OF AUTHORIZATION #9885

TRACO
Windows & Doors Inc.
71 Progress Avenue
Cranberry Township, PA 16166
Tel: (724) 776-7000
SERIES 2100 ALUMINUM HORIZONTAL SLIDING WINDOW
NON-IMPACT RESISTANT

REMARKS	CHKD	DATE
INIT ISSUE	CL	5/7/04
2004 FBC	FLB	7/25/05

04-113-0004
PAGE SCALE:
DESCRIPTION:
3

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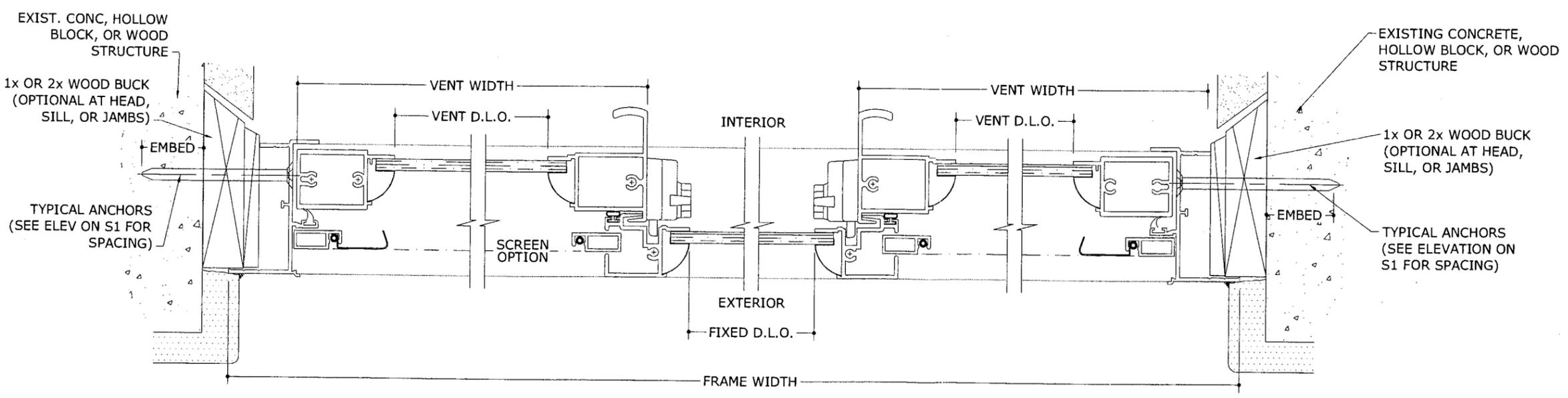


1
4

**SINGLE GLAZED (XO)
HORIZONTAL SECTION**

6" = 1'-0"

NOTE:
XO CONFIG SHOWN,
OX CONFIG OPPOSITE



2
4

**SINGLE GLAZED (XOX)
HORIZONTAL SECTION**

6" = 1'-0"

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No **07-0309.02**
Expiration Date **APRIL 29, 2008**
By **Mauricio Serey**
Miami Dade Product Control
Division

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No **05-081307**
Expiration Date **04/29/07**
By **M. Thaupe**
Miami Dade Product Control
Division

FRANK L. BENNARDO, P.E.
#PF0046549
07/25/2005

FRANK L. BENNARDO, P.E., INC.
CONSULTING ENGINEERS
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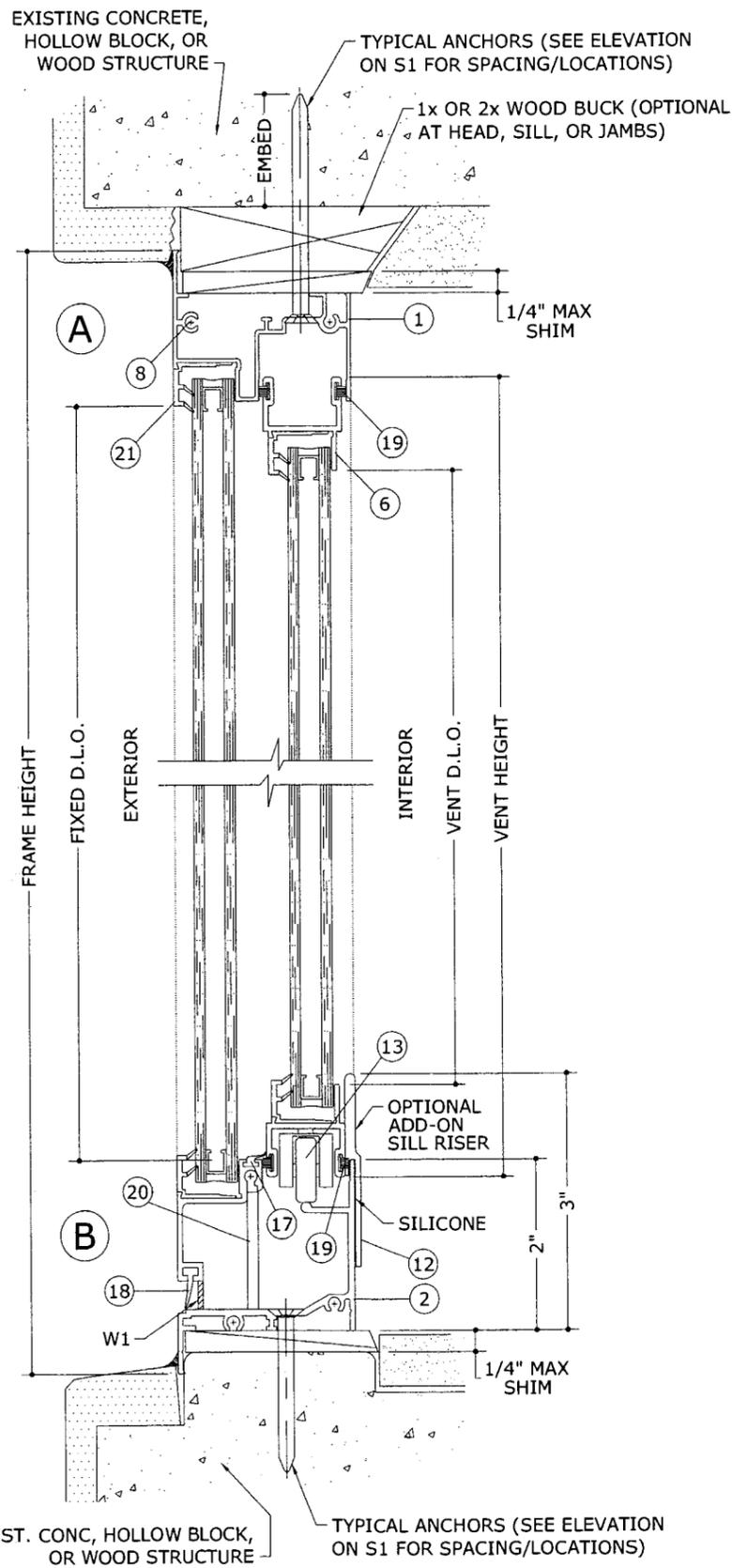
SERIES 2100 ALUMINUM HORIZONTAL SLIDING WINDOW
NON-IMPACT RESISTANT

REMARKS	CHKO	DATE
INIT ISSUE	5/7/04	
2004 FBC	FLB	7/25/05
	CL	
	CL	

04-113-0004

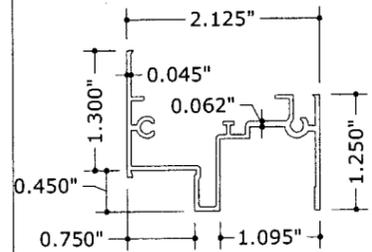
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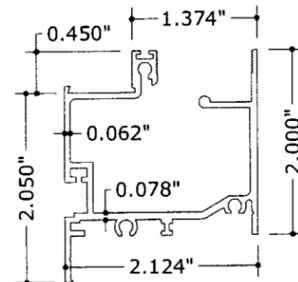


1 INSUL. DOUBLE GLAZED VERTICAL SECTION

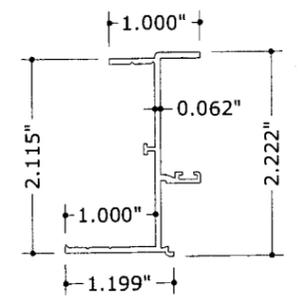
5 6" = 1'-0"



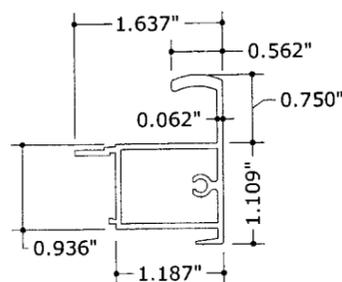
1 FRAME HEAD



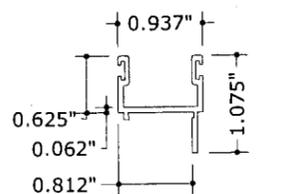
2 FRAME SILL



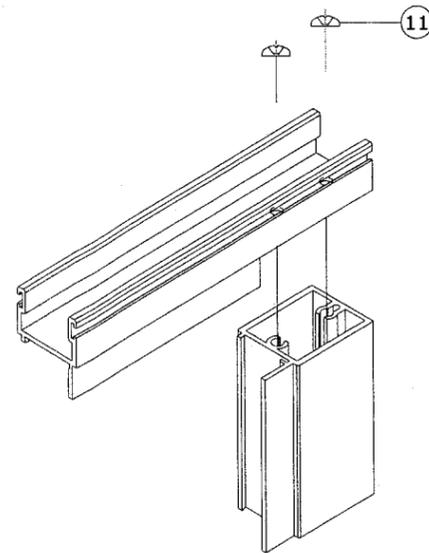
3 FRAME JAMB



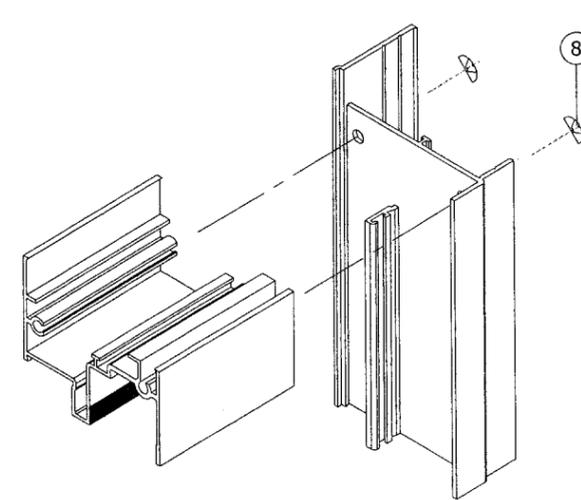
5 MEETING RAIL



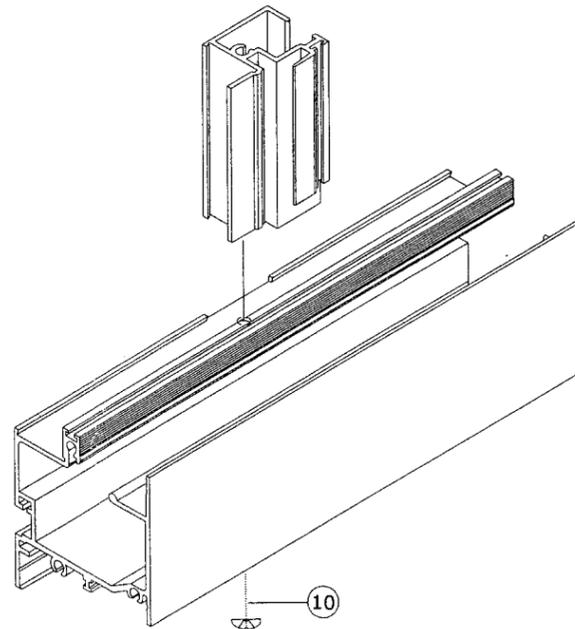
6 VENT TOP/BOTTOM RAIL



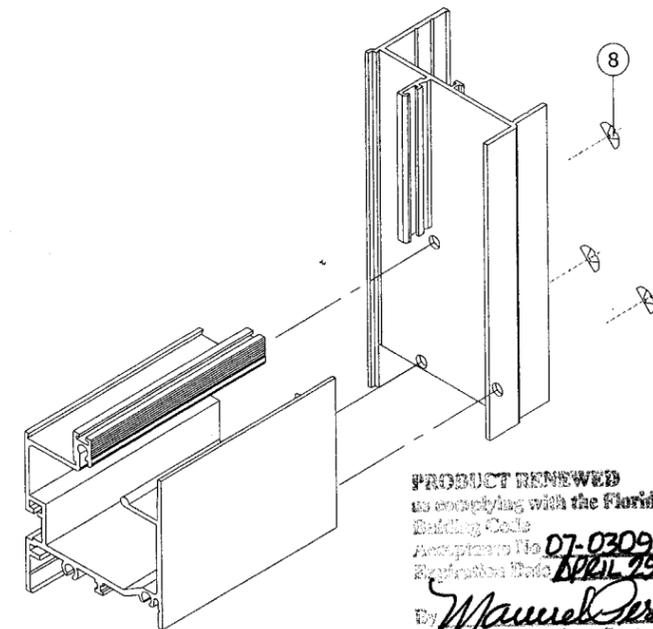
VENT TOP/BOTTOM CORNERS



FRAME TOP CORNER

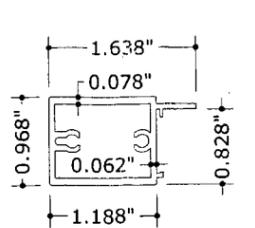


FIXED MTG. RAIL CORNER

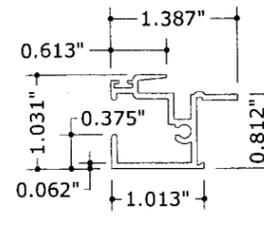


FRAME BOTTOM CORNER

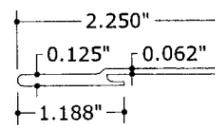
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 07-0309.02
 Expiration Date APRIL 25, 2008
 By *Manuel Perez*
 Miami Dade Product Control
 Division



7 JAMB STILE



4 FIXED MTG RAIL



12 SILL RISER

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 05-0812.04
 Expiration Date 04/29/07
 By *M. Thull*
 Miami Dade Product Control
 Division

FRANK L. BENNARDO, P.E.
 # PE0046549

07/25/2005

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 NON-IMPACT RESISTANT

REMARKS	INITIALS	DATE
DWN	CHKD	DATE
CL	FLB	5/7/04
CL	FLB	7/25/05

04-113-0004

PAGE SCALE:
 DESCRIPTION:

5

07/25/2005 - 2:59pm clangley F:\01 Project Files\Traco\2004 Jobs\04-113-0004 2100 Horizontal Slider (Non-Impact) 01a 2100 Horizontal Slider (Non-Impact).dwg

FRANK L. BENNARDO, P.E.
PE0046549
~~07/25/2005~~

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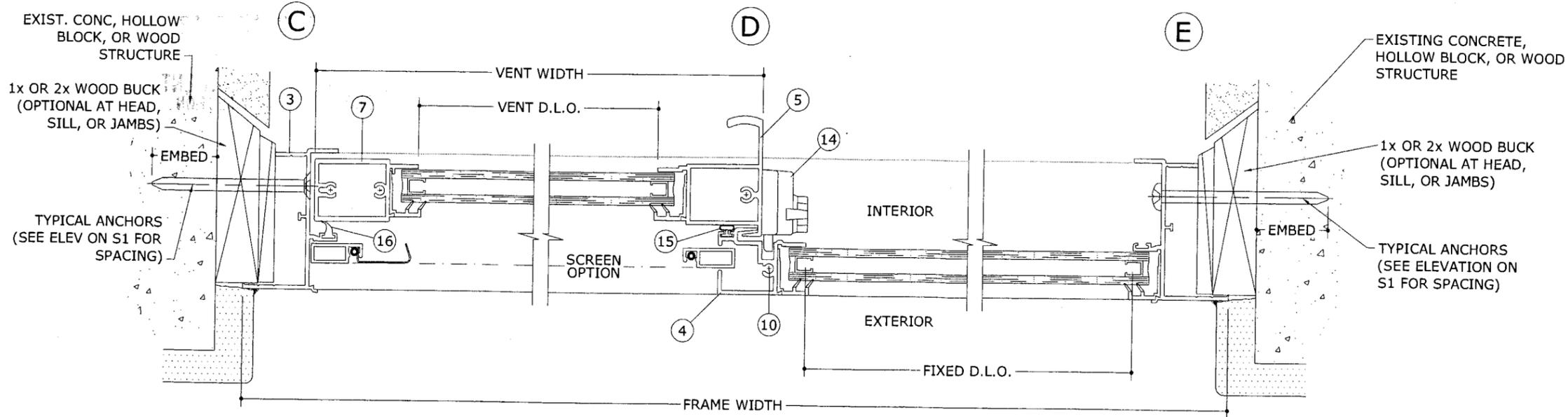
SERIES 2100 ALUMINUM HORIZONTAL SLIDING WINDOW
NON-IMPACT RESISTANT

REMARKS	DWN	CHKD	DATE
2004 FBC	CL	CL	5/7/04
			7/25/05

04-113-0004

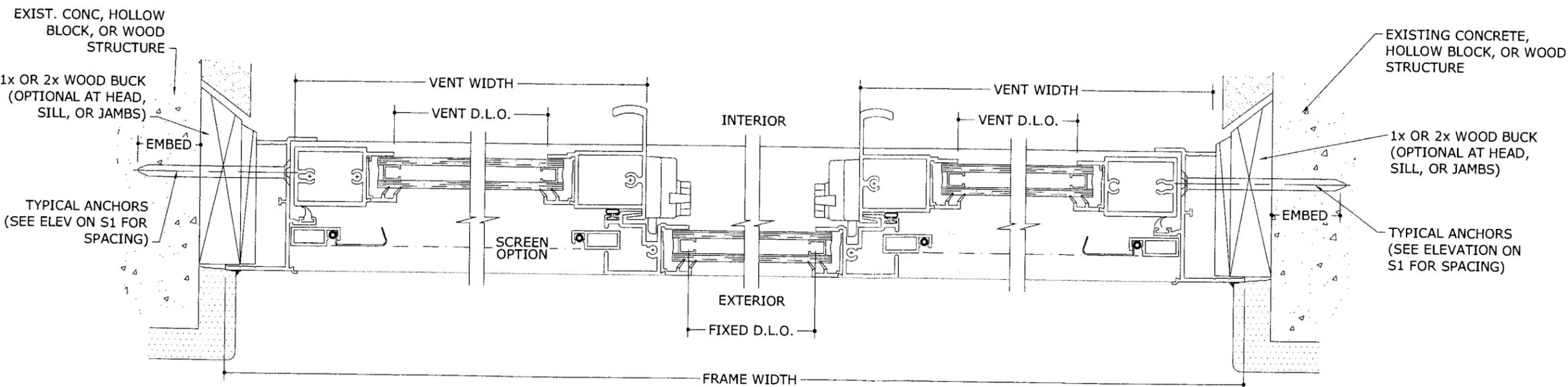
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DESCRIPTION:

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1
6 INSUL. DOUBLE GLAZED (XO)
HORIZONTAL SECTION
6" = 1'-0"

NOTE:
XO CONFIG SHOWN,
OX CONFIG OPPOSITE



2
6 INSUL. DOUBLE GLAZED (XOX)
HORIZONTAL SECTION
6" = 1'-0"

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 07-0309.02
Expiration Date APRIL 29, 2008

By: *Manuel Perez*
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-0812.04
Expiration Date 04/29/07

By: *M. Stahl*
Miami Dade Product Control
Division