



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.miamidade.gov/buildingcode

Florida Coastal Protective Manufacturing
6950 N.W. 37th Court
Miami, FL 33147

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 2009 Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **08-236**, titled "Series 2009 – SH Single Hung Window Large Missile Impact Resistant", sheets 1 through 10 of 10, dated 10/08/08 with revision 1 dated 05/21/09, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., 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 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 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. 09-0413.06
Expiration Date: June 24, 2014
Approval Date: June 24, 2009
 Page 1

Florida Coastal Protective Manufacturing

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **08-236**, Sheets 1 through 10 of 10, titled "Series 2009 – SH Single Hung Window Large Missile Impact Resistant", dated 10/08/08 with revision 1 dated 05/21/09, prepared by Tilteco, Inc, signed and sealed by Walter A. Tillit, Jr., 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, TAS 202-94along with marked-up drawings and installation diagram of series FIW 2008 aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc, Test Report No. **FTL-5743**, dated 12/30/08, signed and sealed by Michael R. Wenzel, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Tilteco, Inc, dated 03/09/09, signed and sealed by Walter A. Tillit, Jr., P.E.
Complies with ASTM E1300-02/03/04

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

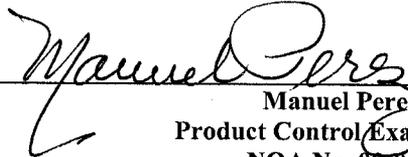
1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/13/09, expiring on 01/14/1
2. Notice of Acceptance No. **09-0312.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB, Interlayer**" dated 05/13/09, expiring on 12/11/10.

E. STATEMENTS

1. Statement letter of conformance, dated March 4, 2009, signed and sealed by Walter A. Tillit, P.E.
2. Statement letter of no financial interest, dated March 4, 2009, signed and sealed by Walter A. Tillit, P.E.

G. OTHERS

1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 09-0413.06
Expiration Date: June 24, 2014
Approval Date: June 24, 2009

GENERAL NOTES:

1. SERIES 2009-SH SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT, SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2007 EDITION OF THE FLORIDA BUILDING CODE.
WINDOW MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES.
DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE.
IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS **NOT** USED IN THEIR ANALYSIS.
FASTENERS SPACING IN WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2005.
THIS WINDOW'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER FENESTRATION TESTING LABORATORY REPORT # **5743** AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1612 OF THE FLORIDA BUILDING CODE.
2. **MAXIMUM DESIGN PRESSURE RATINGS FOR THESE WINDOWS SHALL BE AS PER SCHEDULE #1 SHOWN ON SHEET 5. SEE WINDOW ELEVATIONS ON SHEET 4.**
3. **THESE WINDOWS WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.**
4. **THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION. (SEE SCHEDULE #1 ON SHEET 5)**
5. SERIES 2009-SH SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT SHALL COMPLY WITH SECTIONS 2411.5.1 AND 2411.5.2 OF THE FLORIDA BUILDING CODE.
6. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER, WITH $F_y = 25.0$ ksi MINIMUM. THE THICKNESS OF ALL EXTRUSIONS SHALL BE AS SHOWN ON THIS DRAWING.
7. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH.
8. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE.
WOOD BUCKS MUST BE SOUTHERN PINE, $G = 0.55$.
WOOD BUCKS NOT BY FLORIDA COASTAL PROTECTIVE MFG., INC., MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.
9. **ANCHOR NOTES:** SEE SCHEDULE #2 ON SHEET 5 FOR MAXIMUM ANCHOR SPACING . EMBEDMENT AND EDGE DISTANCE ARE BEYOND ANY WALL FINISH.
 - (A) TO EXISTING POURED CONCRETE: (Min. $f'_c = 2.0$ ksi), MIN. EDGE DISTANCE = 2 1/2".
- 1/4"Ø KWIK-CON II ANCHORS 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY HILTI, INC. (COMPONENT 25A), THRU 1" P.T. WOOD BUCK.
 - (B) TO EXISTING A.S.T.M. C-90 CONCRETE BLOCK WALL. MIN. EDGE DISTANCE = 2 1/2".
- 1/4"Ø KWIK-CON II ANCHORS W/ 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY HILTI, INC (COMPONENT 25A), THRU 1" P.T. WOOD BUCK.
 - (C) TO EXISTING 2x P.T. WOOD BUCK. MIN. EDGE DISTANCE = 1".
- 1/4"Ø-14 TEK SCREW, W/ 1 1/2" MIN. EMBEDMENT, AS MANUFACTURED BY ITW BUILDEX, INC. (COMPONENT 25).
 - (D) TO EXISTING MIN. 1/8" THICK ALUMINUM TUBE (6063-T5 ALLOY) MIN. EDGE DISTANCE = 1/2".
- 1/4"Ø-14 TEK SCREW, MIN. 3/4" LONG, AS MANUFACTURED BY ITW BUILDEX, INC. (COMPONENT 25).
 - (E) TO EXISTING MIN. 12 GAGE STEEL MEMBER (ASTM A-500, A-653 OR A-36) MIN. EDGE DISTANCE = 1/2".
- 1/4"Ø-14 TEK SCREW, MIN. 3/4" LONG, AS MANUFACTURED BY ITW BUILDEX, INC. (COMPONENT 25).
10. PROVIDE 1/4" MAX. LOAD BEARING SHIM SPACE (TYP.).
11. REMAINING COMPONENTS FOR THIS WINDOW'S SYSTEM SHALL BE AS INDICATED ON BILL OF MATERIALS, SHEET 3 OF THIS DRAWING.

12. WINDOW'S MANUFACTURER LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION. ONE LABEL SHALL BE PLACED FOR EVERY UNIT. LABEL SHALL READ AS FOLLOWS:

FLORIDA COASTAL PROTECTIVE MFG. INC.
HIALEAH, FLORIDA
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

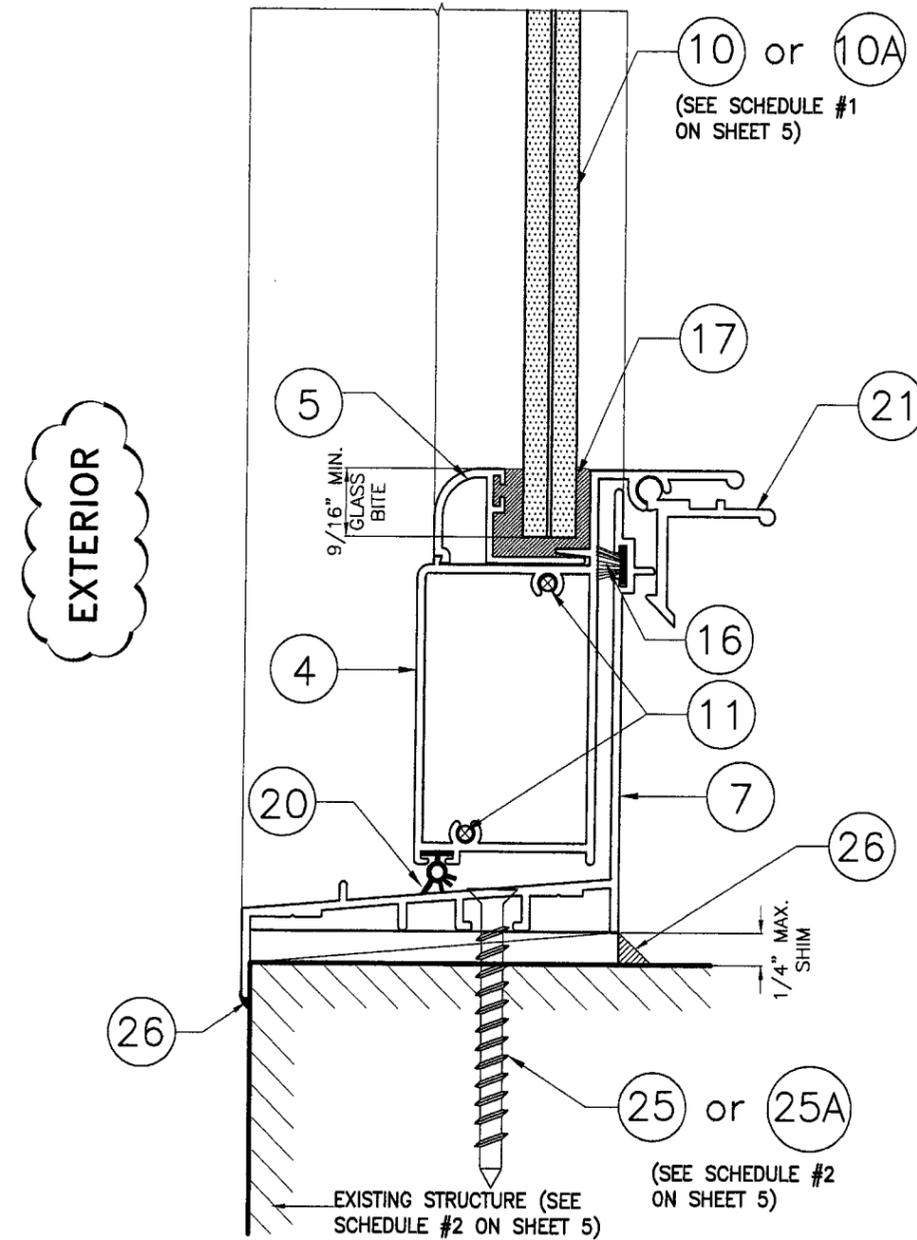
13. (a) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.
- (b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- (d) ORIGINAL P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

<p>Approved as complying with the Florida Building Code Date: <u>JUNE 24, 2009</u> NOA# <u>09-0413-06</u> Miami Dade Product Control Division By: <u>Maurice Perez</u> MIAMI-DADE COUNTY</p>	 MAY 21 2009 P.E. SEAL/SIGNATURE/DATE	<p>© 2008 TILTECO, INC.</p>  TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilliteco@aol.com EB-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167	<p>SERIES 2009-SH SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT</p> <p>FLORIDA COASTAL PROTECTIVE MFG., INC.</p> <p>6950 N.W. 37 COURT HIALEAH, FLORIDA 33147</p> <p>PHONE: (305)696-3976 FAX: (305)696-3977</p>	<p>DRAWN BY L.G./M.C.V./F.P.</p> <p>10/08/08 DATE</p> <p>08-236 DRAWING No</p> <p>SHEET 1 OF 10</p>																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>GENERAL</td> <td>05/21/09</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> <td>4</td> <td>-</td> <td>-</td> </tr> </tbody> </table>				REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	GENERAL	05/21/09	3	-	-	2	-	-	4	-	-	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE																	
1	GENERAL	05/21/09	3	-	-																	
2	-	-	4	-	-																	

BILL OF MATERIAL

ITEM #	PART	DESCRIPTION	MATERIAL
1	FSP 015	FRAME JAMB	6063-T6
2	FSP 041	FIXED MEETING RAIL	6063-T6
3	FSP 018	VENT MEETING RAIL	6063-T6
4	FSP 042	VENT BOTTOM RAIL	6063-T6
5	FSP 017	GLAZING BEAD	6063-T6
6	FSP 014	FRAME HEAD	6063-T6
7	FSP 040	FRAME SILL	6063-T6
8	FSP 016	VENT STILE	6063-T6
10	GLASS	7/16" NOMINAL OVERALL THICKNESS LAMINATED GLASS USING TWO LITES OF 3/16" HEAT STRENGTHENED GLASS WITH A 0.090" INNER LAYER FILM, SENTRY GLASS PLUS, BY EI DUPONT DENEMOURS W/ NOA 07.1116.04	-
10A	GLASS	7/16" NOMINAL OVERALL THICKNESS LAMINATED GLASS USING TWO LITES OF 3/16" HEAT STRENGTHENED GLASS WITH A 0.090" INNER LAYER FILM, DUPONT BUTACITE PVB, BY EI DUPONT DENEMOURS W/ NOA 05.1208.02	-
11	FASTENER	#8 X 1 1/2" PH SMS (SS) VENT CORNER FASTENERS	-
12		WEATHER STRIP	-
13	FASTENER	#8 X 5/8" PH SMS (SS) LATCH LOCK FASTENER	-
14	FASTENER	#8 X 1 1/2" PH SMS (SS) FRAME CORNER FASTENERS	-
15		LATCH LOCK	-
16		WEATHER STRIP	-
17	SILICONE	PECORA 895	STRUCTURAL SILICONE
20		VENT VINYL BULB	-
21	FSP 021	VENT LOCK	-
22		BALANCE	-
23		BALANCE GUIDE	-
24		7/8" X 7/8" X CONT. STEEL BAR, ZINC PLATED	ASTM A-36
25	ANCHORS	1/4"-14 ITW BUILDEX TEK SCREW TO WOOD BUCK, ALUMINUM TUBE OR STEEL MEMBER (SEE SCHEDULE ON SHEET 5)	STEEL
25A	ANCHORS	1/4" KWIK-CON II BY HILTI, TO POURED CONCRETE OR CONCRETE BLOCK WALL REQ'D. (SEE SCHEDULE ON SHEET 5)	STEEL
26	SILICONE	SEALANT, AT FRAME CORNERS, VENT CORNERS AND EACH END OF THE FIXED MEETING RAIL.	NON STRUCTURAL SILICONE
27	NYLON GUIDES	(4) NYLON GUIDES LOCATED AT 3 1/8" AND 36 3/4" FROM BOTTOM OF VENT STILE USING (1) #6X3/8" F.H. S.M.S.	-
28	NYLON GUIDES	(2) NYLON GUIDES LOCATED AT EACH END OF VENT MEETING RAIL USING (2) #8X1 1/2" P.H. S.M.S.	-
29	SURFACE MAINT METALLIC CLIPS	(2) CLIPS AT EACH VENT BOTTOM RAIL CONNECTED USING (2) #8X5/8" F.H. S.M.S.	-



**GLAZING DETAIL
(SECTION)**
SCALE: 1/2"=1"

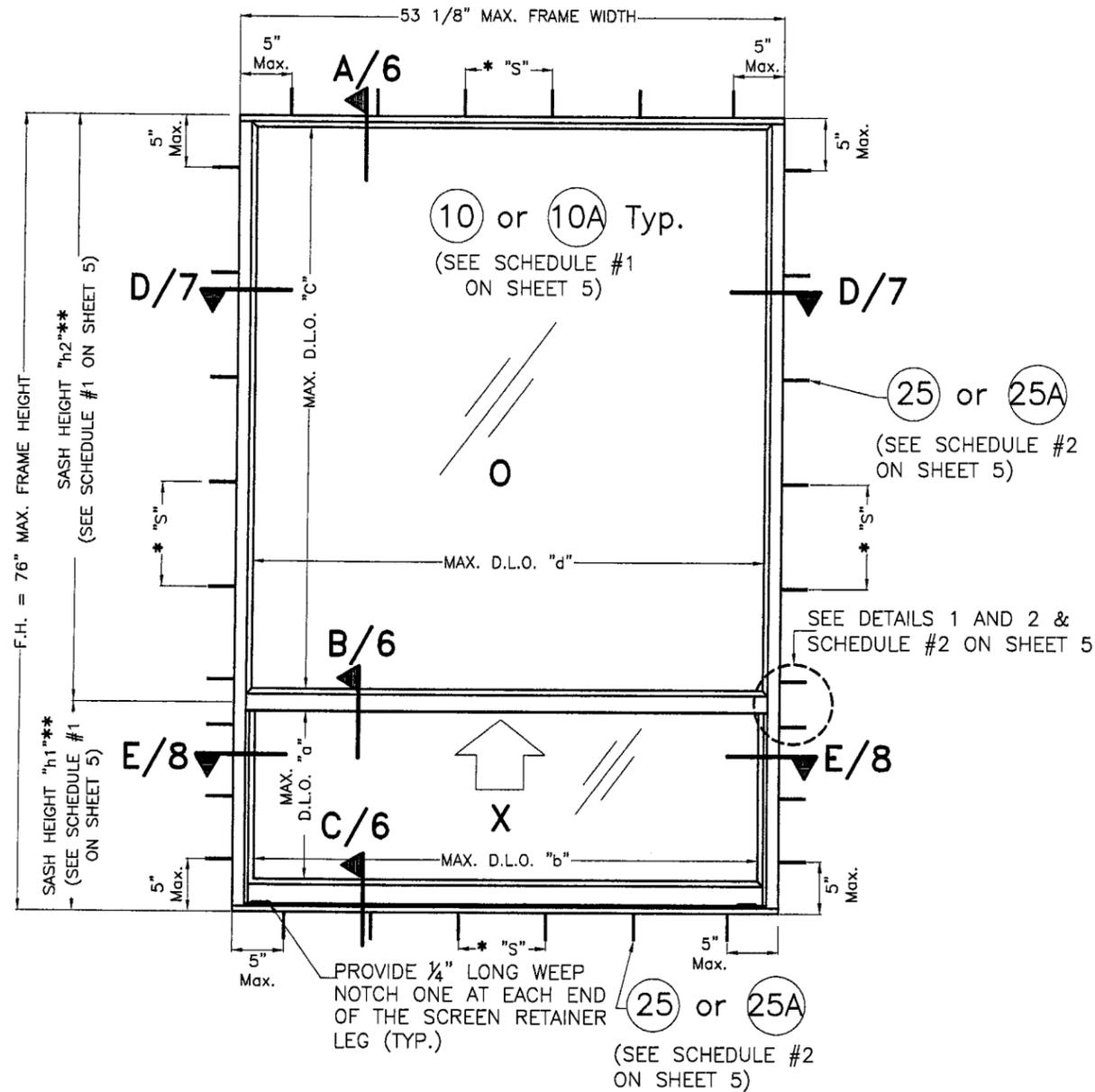
FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

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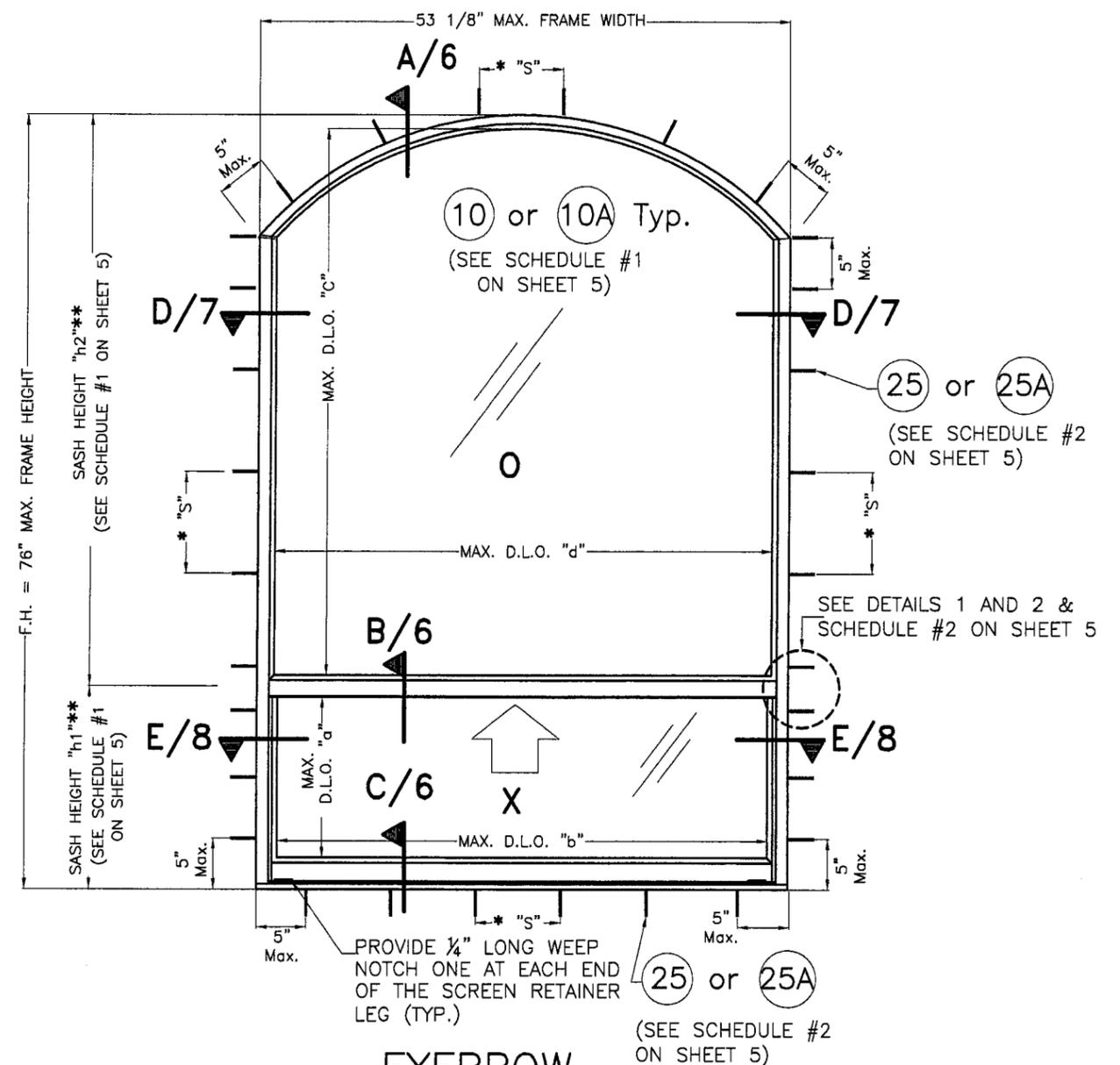

MAY 21 2009
P.E. SEAL/SIGNATURE/DATE

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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone: (305)871-1530 • Fax: (305)871-1531
e-mail: tilteco@aol.com
EB-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES 2009-SH SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT						DRAWN BY L.G./M.C.V./F.P.
FLORIDA COASTAL PROTECTIVE MFG., INC.						10/08/08 DATE
6950 N.W. 37 COURT HIALEAH, FLORIDA 33147						08-236 DRAWING No
PHONE: (305)696-3976 FAX: (305)696-3977						SHEET 3 OF 10
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	
1	GENERAL	05/21/09	3	-	-	
2	-	-	4	-	-	



RECTANGULAR



EYEBROW

TYPICAL EXTERIOR ELEVATIONS (OX)

N.T.S.

* "S" = ANCHOR SPACING (SEE SCHEDULE #2 ON SHEET 5)

** NOTE: h1 AND h2 MAY BE DIFFERENT FROM EACH OTHER (REGULAR WINDOW OR ORIEL TYPE) BUT THEY SHALL BE SUCH THAT h1 + h2 DOES NOT EXCEED MAXIMUM FRAME HEIGHT INDICATED ON ELEVATIONS. ADDITIONALLY, DAYLIGHT OPENINGS "a" AND "c", CREATED BY h1 AND h2 SHALL BE SUCH THAT MAXIMUM DAYLIGHT OPENING VALUES INDICATED ON SCHEDULE #1 (SHEET 5) ARE NOT EXCEEDED.

Approved as complying with the Florida Building Code
Date JUNE 24, 2009
NOA# 09-0913.06
Miami Dade Product Control Division
By Manuel Perez
MIAMI-DADE COUNTY

MAY 21 2009
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WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

**SERIES 2009-SH SINGLE HUNG WINDOW
LARGE MISSILE IMPACT RESISTANT**

FLORIDA COASTAL PROTECTIVE MFG., INC.

6950 N.W. 37 COURT
HIALEAH, FLORIDA 33187

PHONE: (305)898-3978 FAX: (305)898-3977

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	GENERAL	05/21/09	3	-	-
2	-	-	4	-	-

DRAWN BY
L.G./M.C.V./F.P.
10/08/08
DATE
08-236
DRAWING No
SHEET 4 OF 10

SINGLE HUNG WINDOW SCHEDULE #1

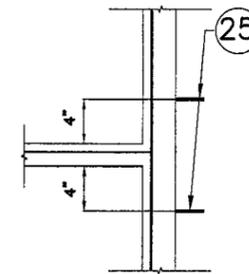
WINDOW CASE #	WINDOW'S TYPE	MAXIMUM DESIGN LOAD	MAXIMUM WATER PRESSURE	MAXIMUM SASH HEIGHT "h1"	MAXIMUM SASH HEIGHT "h2"	MAXIMUM D.L.O. "a"	MAXIMUM D.L.O. "b"	MAXIMUM D.L.O. "c"	MAXIMUM D.L.O. "d"	REQUIRED GLASS TYPE (SEE BILL OF MATERIALS)	
										● VENT SASH	● FIXED SASH
I	UNEQUAL SASH HEIGHT ORIEL Δ (RECTANGULAR OR EYEBROW)	+110.0, -150.0 psf	16.5 psf	(F.H. - h2)	>38 UP TO 56	ΔΔ	47 1/16"	54"	48 7/8"	(10A)	(10)
				(F.H. - h2)	38 OR LESS	ΔΔ	47 1/16"	35 3/8"	48 7/8"	(10A)	(10A)
II	EQUAL SASH HEIGHT (RECTANGULAR OR EYEBROW)	+110.0, -150.0 psf	16.5 psf	(F.H. - h2)	38"	32 3/4"	47 1/16"	35 3/8"	48 7/8"	(10A)	(10A)

Δ : ORIEL TYPE WINDOWS ARE SUCH THAT h1 IS LESS THAN h2; ie. VENT SASH HEIGHT IS LESS THAN FIXED SASH HEIGHT.

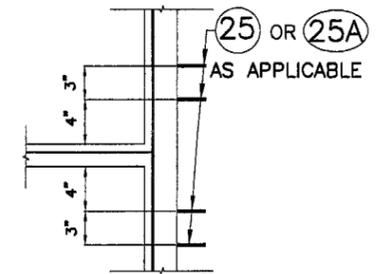
ΔΔ : WILL BE DEFINED BASED ON h1. THERE IS NO LIMIT FOR "a".

MAXIMUM ANCHOR SPACING "S" SCHEDULE #2

SUBSTRATE (SEE NOTE 9/1)	ANCHOR TYPE	MAX. POSITIVE OR NEGATIVE DESIGN LOAD (psf)	HEAD/SILL	JAMBS	REQUIRED ADDITIONAL CONCENTRATION OF ANCHORS @ MEETING RAIL
CONCRETE	1/4"φ HILTI KWIK CON II ANCHOR (25A)	75 OR LESS	9" o.c.	10" o.c.	SEE DETAIL 1 (2 ANCHORS)
		>75 TO 114	9" o.c.	10" o.c.	SEE DETAIL 1 (2 ANCHORS)
		>114 TO 150	9" o.c.	9 1/2" o.c.	SEE DETAIL 2 (4 ANCHORS)
BLOCK	1/4"φ HILTI KWIK CON II ANCHOR (25A)	75 OR LESS	9" o.c.	10" o.c.	SEE DETAIL 1 (2 ANCHORS)
		>75 TO 114	9" o.c.	10" o.c.	SEE DETAIL 1 (2 ANCHORS)
		>114 TO 150	9" o.c.	9 1/2" o.c.	SEE DETAIL 2 (4 ANCHORS)
ALUMINUM TUBE OR STEEL MEMBER	1/4"φ-14 ITW/BUILDEX TEK SCREW (25)	75 OR LESS	9" o.c.	10" o.c.	SEE DETAIL 1 (2 ANCHORS)
		>75 TO 114	9" o.c.	9" o.c.	SEE DETAIL 2 (4 ANCHORS)
		>114 TO 150	6 1/2" o.c.	6 1/2" o.c.	SEE DETAIL 2 (4 ANCHORS)
WOOD	1/4"φ-14 ITW/BUILDEX TEK SCREW (25)	75 OR LESS	9" o.c.	10" o.c.	SEE DETAIL 1 (2 ANCHORS)
		>75 TO 114	8 1/2" o.c.	8 1/2" o.c.	SEE DETAIL 2 (4 ANCHORS)
		>114 TO 150	6 1/2" o.c.	6 1/2" o.c.	SEE DETAIL 2 (4 ANCHORS)



DETAIL 1
2 ANCHORS

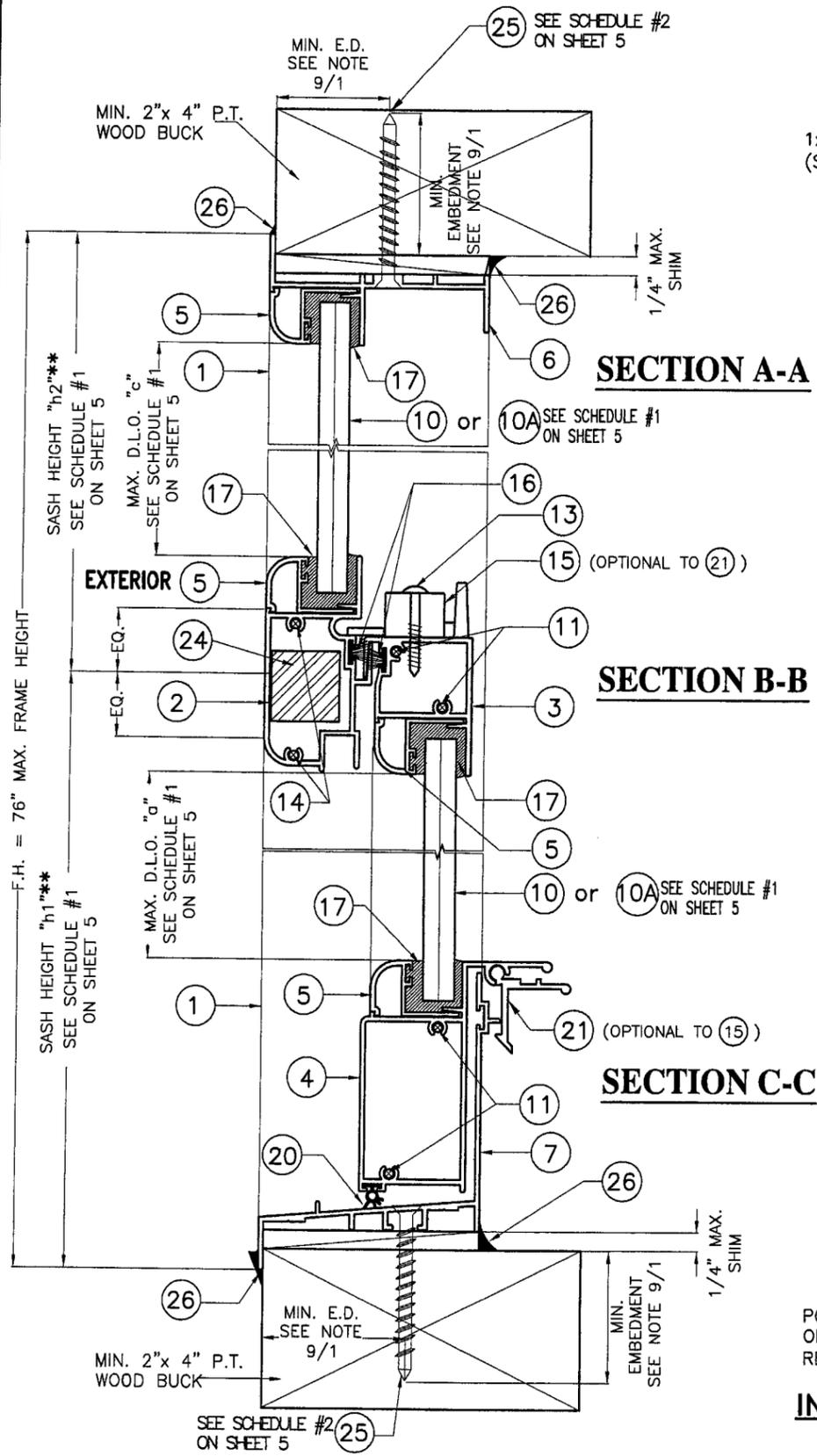


DETAIL 2
4 ANCHORS

REQUIREMENTS FOR ANCHORS CONCENTRATION AT ENDS OF MEETING RAILS

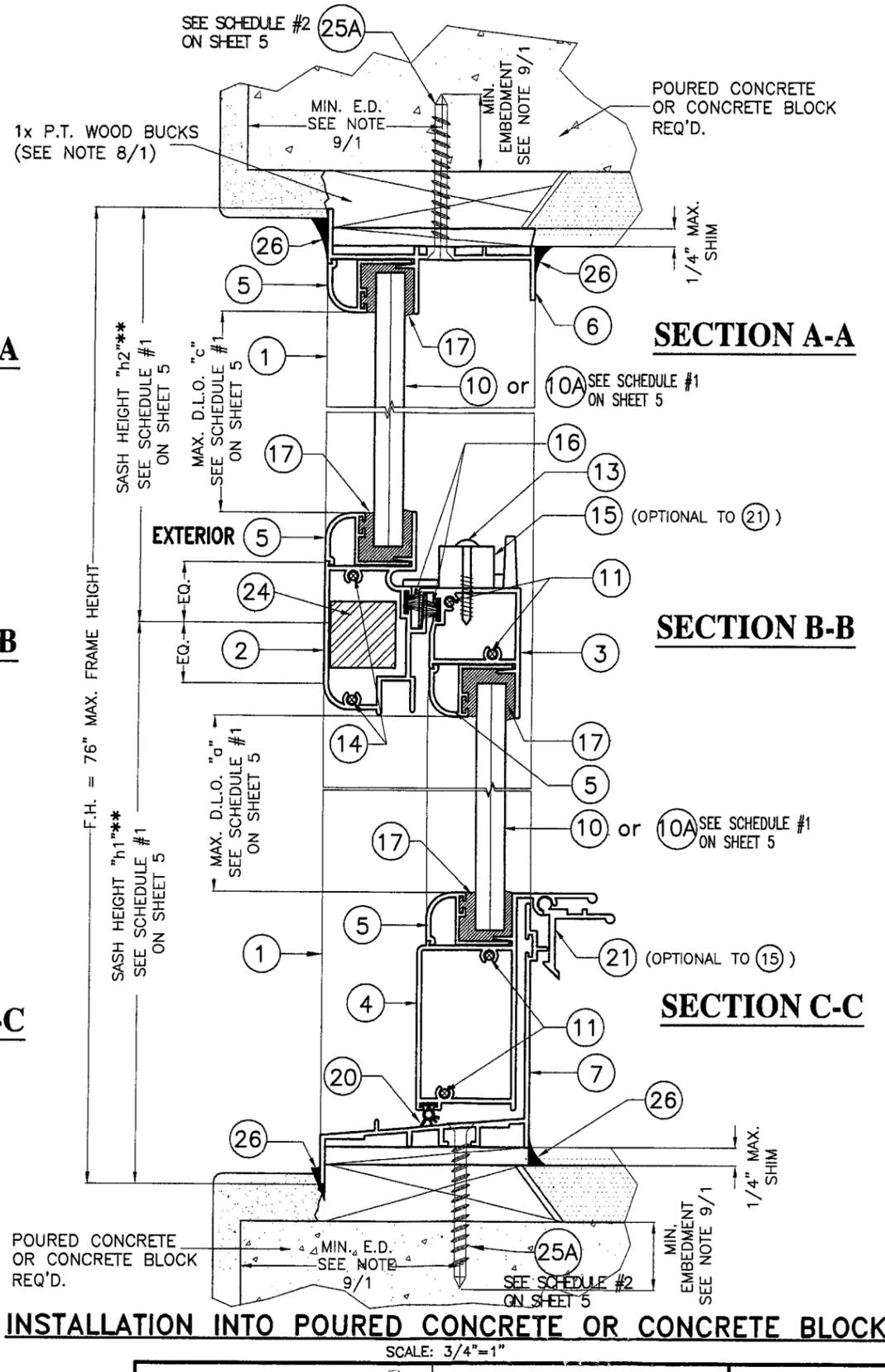
FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

<p>Approved as complying with the Florida Building Code Date: <u>JUNE 24, 2009</u> NOA# <u>09-0913.06</u> Miami Dade Product Control Division By: <u>Manuel Perez</u> MIAMI-DADE COUNTY</p>	 MAY 21 2009 P.E. SEAL/SIGNATURE/DATE	<p>© 2008 TILTECO, INC.</p> TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33186 Phone : (305)871-1530 · Fax : (305)871-1531 e-mail: tilteco@aol.com EB-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167	<p style="text-align: center;">SERIES 2009-SH SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT</p> <p style="text-align: center;">FLORIDA COASTAL PROTECTIVE MFG., INC.</p> <p style="text-align: center;">6950 N.W. 37 COURT HIALEAH, FLORIDA 33147 PHONE: (305)696-3976 FAX: (305)696-3977</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">GENERAL</td> <td style="text-align: center;">05/21/09</td> <td style="text-align: center;">3</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">4</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> </table>	REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	GENERAL	05/21/09	3	-	-	2	-	-	4	-	-	<p style="text-align: right;">DRAWN BY L.G./M.C.V./F.P.</p> <p style="text-align: right;">10/08/08 DATE</p> <p style="text-align: right;">08-236 DRAWING No</p> <p style="text-align: right;">SHEET 5 OF 10</p>
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE																	
1	GENERAL	05/21/09	3	-	-																	
2	-	-	4	-	-																	



INSTALLATION INTO WOOD
SCALE: 3/4"=1"

** NOTE: h1 AND h2 MAY BE DIFFERENT FROM EACH OTHER (REGULAR WINDOW OR ORIEL TYPE) BUT THEY SHALL BE SUCH THAT h1 + h2 DOES NOT EXCEED MAXIMUM FRAME HEIGHT INDICATED ON ELEVATIONS. ADDITIONALLY, DAYLIGHT OPENINGS "a" AND "c", CREATED BY h1 AND h2 SHALL BE SUCH THAT MAXIMUM DAYLIGHT OPENING VALUES INDICATED ON SCHEDULE #1 (SHEET 5) ARE NOT EXCEEDED.



INSTALLATION INTO POURED CONCRETE OR CONCRETE BLOCK
SCALE: 3/4"=1"

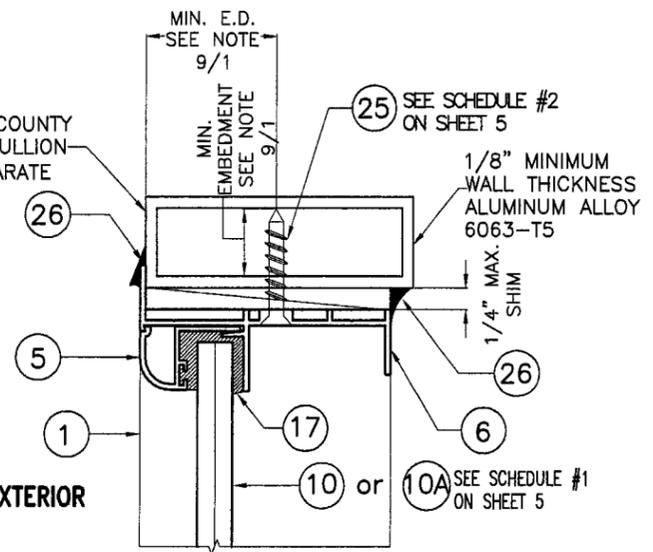
Approved as complying with the Florida Building Code
Date: JUNE 24, 2009
NOA# 09-0413.06
Miami Dade Product Control Division
By: Manuel Perez
MIAMI-DADE COUNTY

WALTER A. TILLIT JR.
MAY 21 2009
P.E. SEAL/SIGNATURE/DATE

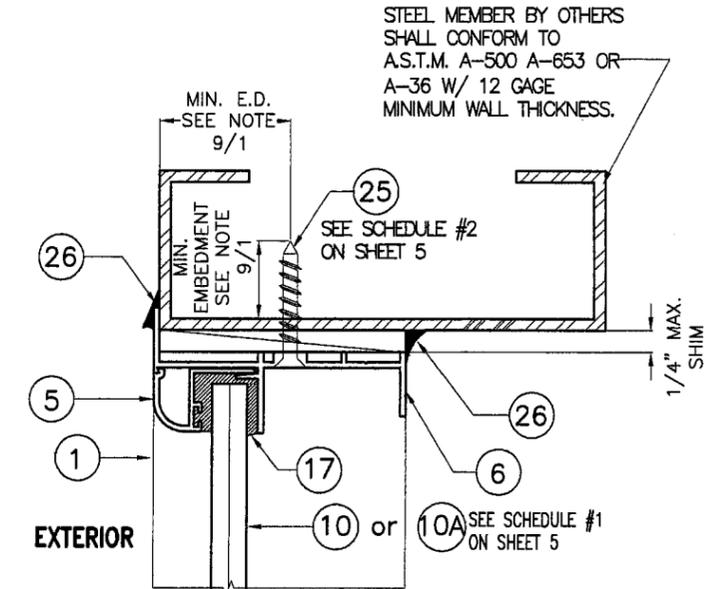
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WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167



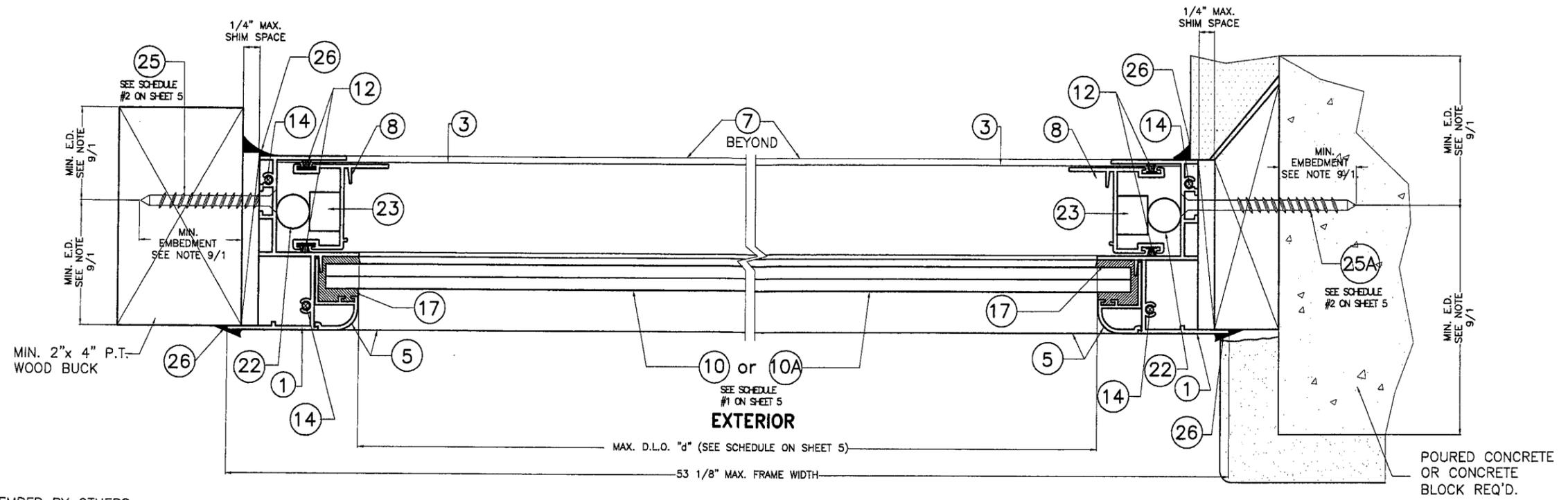
SECTION A-A (SECTION C-C sim.)
INSTALLATION INTO ALUMINUM MULLION
SCALE: 3/4"=1"



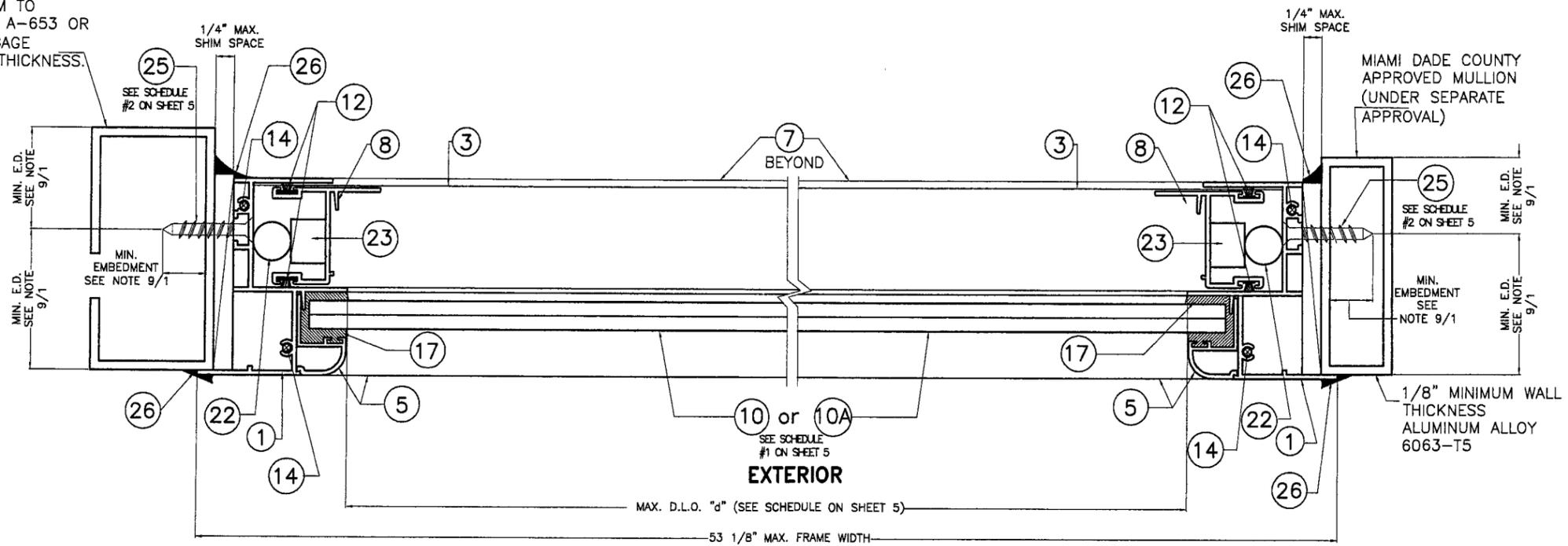
SECTION A-A (SECTION C-C sim.)
INSTALLATION INTO STEEL MEMBER
SCALE: 3/4"=1"

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

SERIES 2009-SH SINGLE HUNG WINDOW			DRAWN BY L.G./M.C.V.		
LARGE MISSILE IMPACT RESISTANT			10/08/08 DATE		
FLORIDA COASTAL PROTECTIVE MFG., INC.			08-236 DRAWING No		
6950 N.W. 37 COURT HIALEAH, FLORIDA 33147			SHEET 6 OF 10		
PHONE: (305)686-3976 FAX: (305)686-3977					
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	-	-	3	-	-
2	-	-	4	-	-



STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 12 GAGE MINIMUM WALL THICKNESS.



SECTIONS D-D
INSTALLATIONS INTO WOOD, POURED CONCRETE,
CONCRETE BLOCK OR METAL.
 SCALE 1/2" = 1"

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

Approved as complying with the Florida Building Code
 Date JUNE 24, 2009
 NOA# 09-0473.06
 Miami Dade Product Control
 Division
 By Manuel Perez
 MIAMI-DADE COUNTY

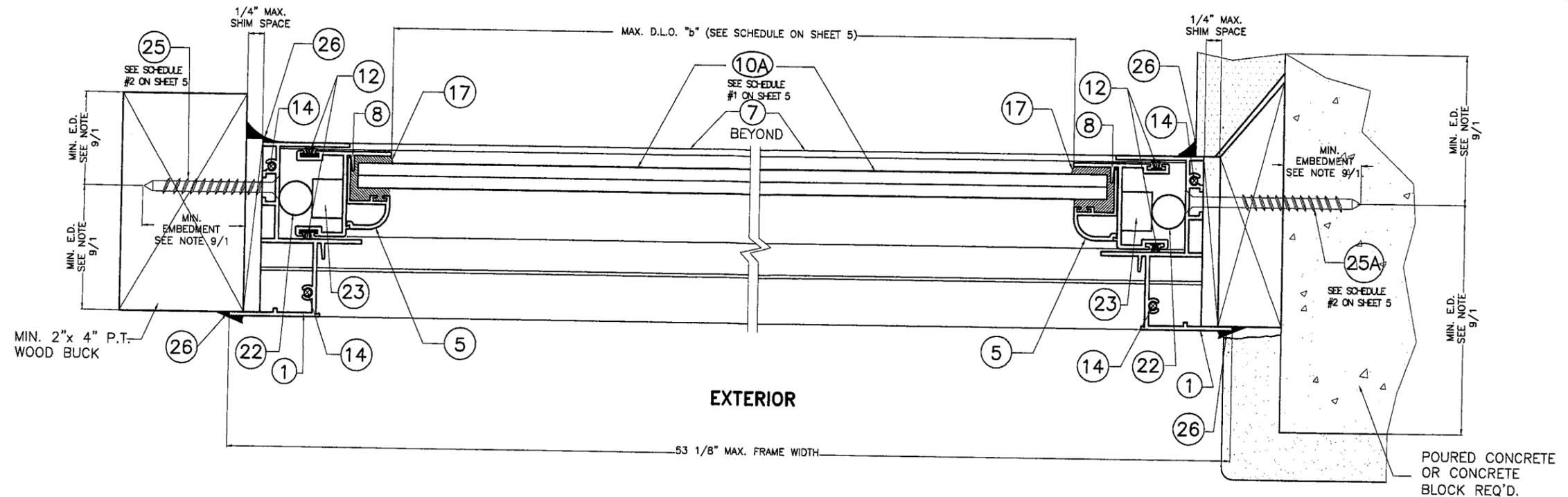
[Signature]
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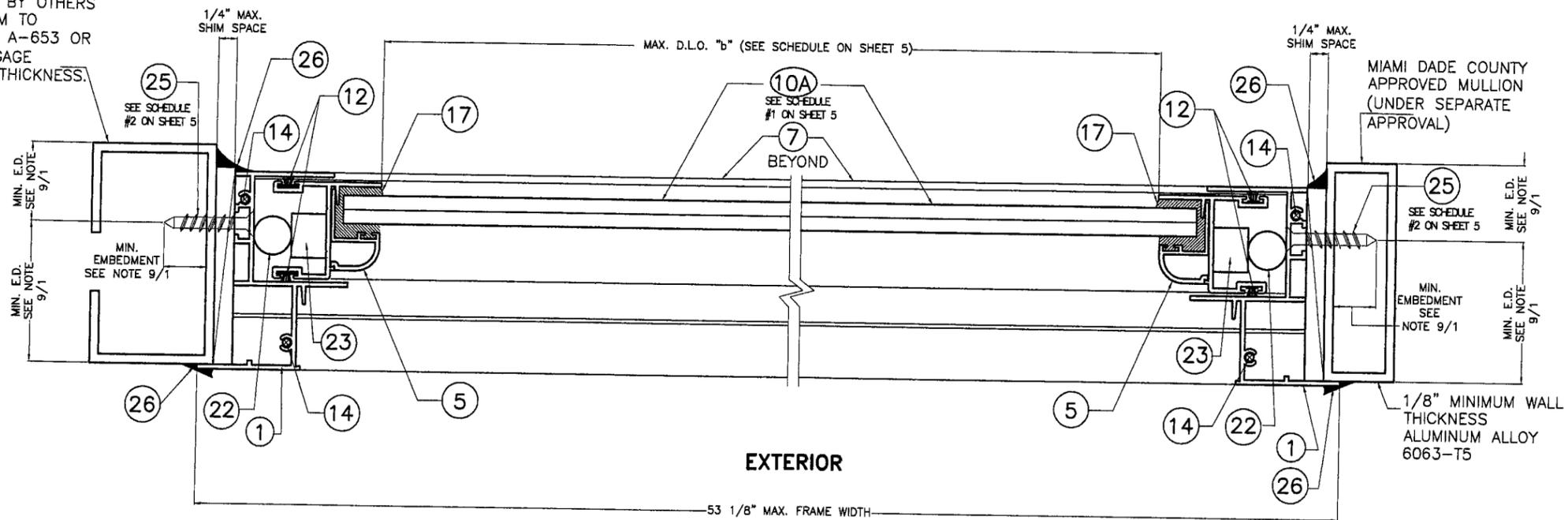
SERIES 2009-SH SINGLE HUNG WINDOW
LARGE MISSILE IMPACT RESISTANT
FLORIDA COASTAL PROTECTIVE MFG., INC.
 6950 N.W. 37 COURT
 HIALEAH, FLORIDA 33147
 PHONE: (305)898-3978 FAX: (305)898-3977

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

DRAWN BY
 L.G./M.C.V.
 10/08/08
 DATE
 08-236
 DRAWING No
 SHEET 7 OF 10



STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 12 GAGE MINIMUM WALL THICKNESS.



**SECTIONS E-E
INSTALLATIONS INTO WOOD, POURED CONCRETE,
CONCRETE BLOCK OR METAL.**

SCALE 1/2" = 1"

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

Approved as complying with the Florida Building Code
Date JUNE 24, 2009
NOA# 09-0413.06
Miami Dade Product Control Division
By Manuel Perez
MIAMI-DADE COUNTY

MAY 21 2009
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WALTER A. TILLIT Jr. P.E.
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**SERIES 2009-SH SINGLE HUNG WINDOW
LARGE MISSILE IMPACT RESISTANT**

FLORIDA COASTAL PROTECTIVE MFG., INC.

6950 N.W. 37 COURT
HIALEAH, FLORIDA 33147

PHONE: (305)898-3976 FAX: (305)898-3977

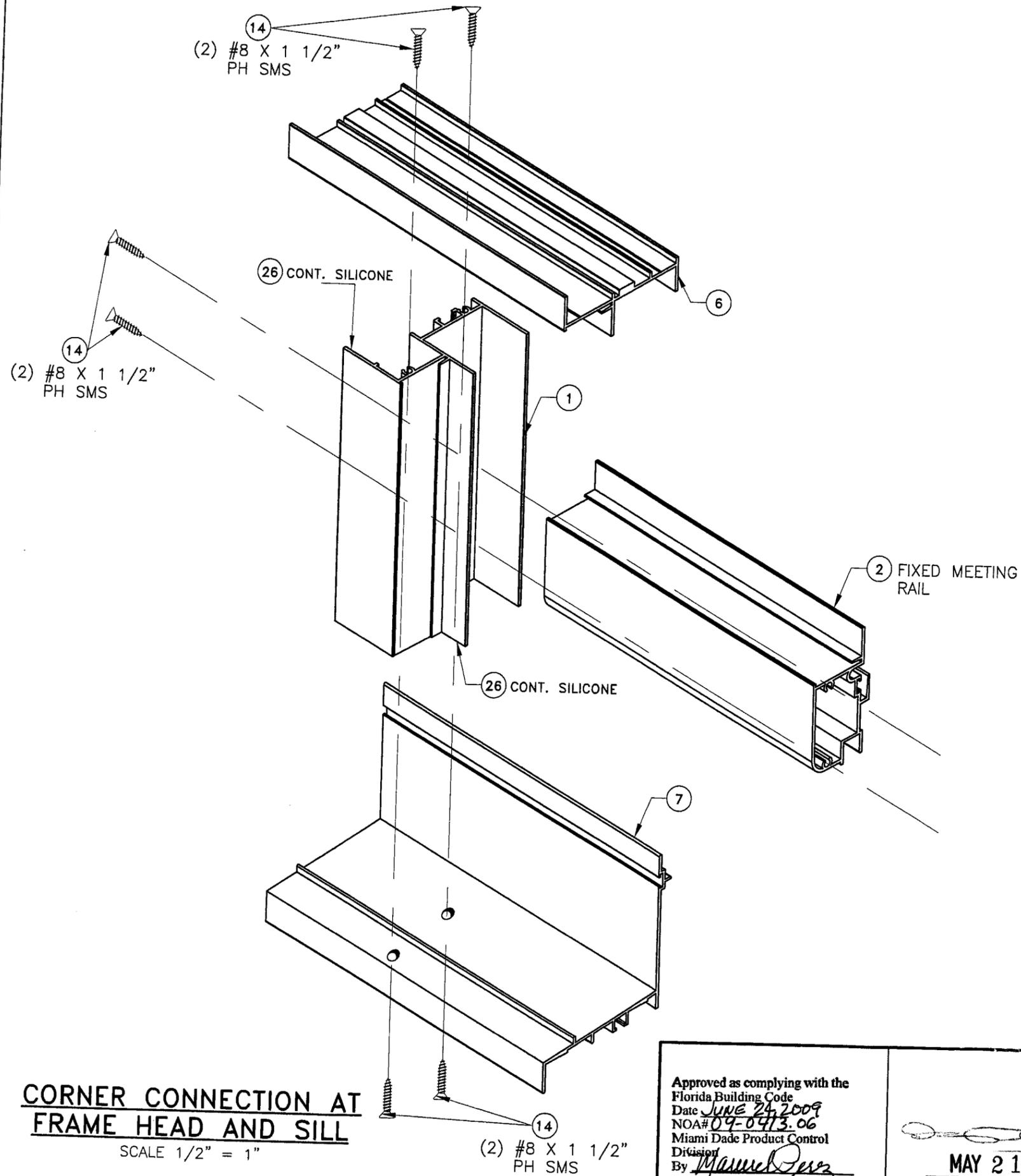
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L.G./M.C.V.

10/08/08
DATE

08-236
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	-	-	3	-	-
2	-	-	4	-	-

SHEET 8 OF 10



**CORNER CONNECTION AT
FRAME HEAD AND SILL**

SCALE 1/2" = 1"

Approved as complying with the
Florida Building Code
Date JUNE 24, 2009
NOA# 09-0413.06
Miami Dade Product Control
Division
By Manuel Perez
MIAMI-DADE COUNTY

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HIALEAH, FLORIDA 33147

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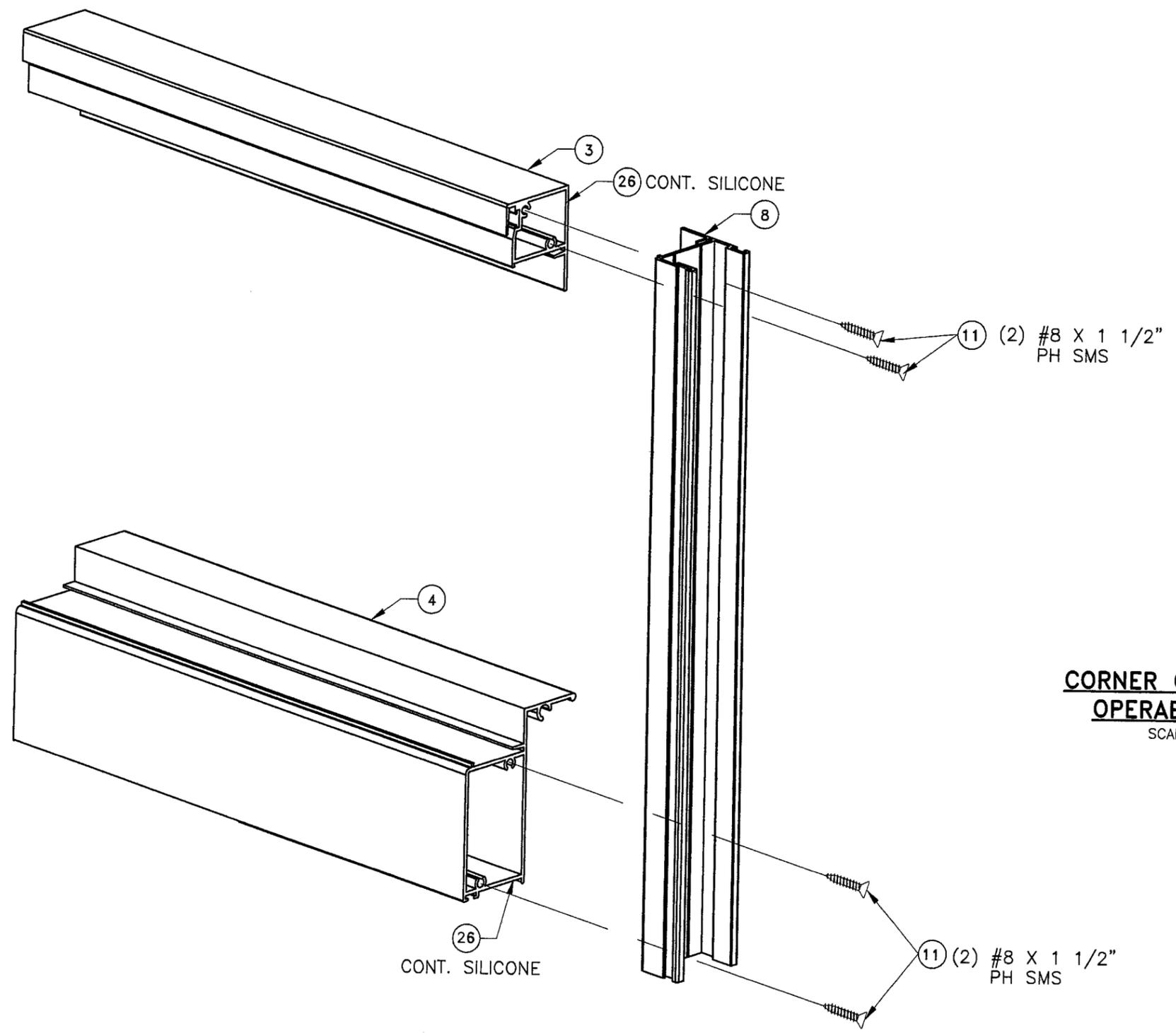
10/08/08
DATE

08-236

DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	-	-	3	-	-
2	-	-	4	-	-

SHEET 9 OF 10



**CORNER CONNECTION AT
OPERABLE VENT (X)**

SCALE 1/2" = 1"

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

<p>Approved as complying with the Florida Building Code Date <u>JUNE 24, 2009</u> NOA# <u>09-0413.06</u> Miami Dade Product Control Division By <u>Maurice Perez</u> MIAMI-DADE COUNTY</p>	 MAY 21 2009 P.E. SEAL/SIGNATURE/DATE	<p>© 2008 TILTECO, INC.</p>  TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com EB-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167	<p>SERIES 2009-SH SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT</p> <p>FLORIDA COASTAL PROTECTIVE MFG., INC. 6950 N.W. 37 COURT HIALEAH, FLORIDA 33147 PHONE: (305)698-3976 FAX: (305)696-3977</p>	<p>DRAWN BY L.G./M.C.V.</p> <p>10/08/08 DATE</p> <p>08-236 DRAWING No</p>																		
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