



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov

NOTICE OF ACCEPTANCE (NOA)

Phoenix Architectural Products, Inc.
3075 Jonquil Drive, SE
Smyrna, GA 30080

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

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

DESCRIPTION: "Sure guard 2004" Window Security Barrier Systems

APPROVAL DOCUMENT: Drawing No. SG04-12, titled "Sure Guard 2004 / Window Security Barrier System", sheets 1 through 6 of 6, prepared by V. M. Engineering, Inc., dated August 27, 2012, signed and sealed by Morgan Villanueva, P.E., on August 29, 2012 bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, 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 revises and renews NOA # 09-0408.04 and consists of this page 1, evidence submitted pages E-1 and E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, M.S., P.E.



Helmy A. Makar
09/06/2012

NOA No. 12-0608.01
Expiration Date: 06/10/2019
Approval Date: 09/06/2012
Page 1

Phoenix Architectural Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 04-0423.01

A. DRAWINGS

1. *Drawing No. S100-01, titled " Sure Guard 2004 / Window Security Barrier Systems ", sheets 1 through 6 of 6, prepared by Tilteco, Inc., dated March 25, 2004, signed and sealed by Walter A. Tillit Jr., P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of 304 Stainless Steel Wire Mesh window security barrier system, prepared by Hurricane Test Laboratory, LLC, Report No. 0340-0310-04, dated April 7, 2004, signed and sealed by Vinu J. Abraham, P.E.*

C. CALCULATIONS

1. *Anchor calculations dated May 17, 2004, 13 pages, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *Mill Certified Inspection Report issued by Screen Technology Group, Inc., dated April 8, 2004, with chemical analysis and mechanical properties for 304 Stainless Steel Wire Mesh.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #05-0921.04

A. DRAWINGS

1. *Drawing No. 05-282, titled " Sure Guard 2004 / Window Security Barrier Systems ", sheets 1 through 6 of 6, prepared by Tilteco, Inc., dated August 15, 2005, signed and sealed by Walter A. Tillit Jr., P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

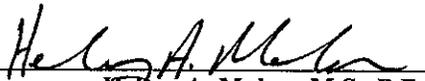
1. *Anchor calculations dated September 16, 2005, 7 pages, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*


Holmy A. Makar, M.S., P.E.

Product Control Unit Supervisor

NOA No. 12-0608.01

Expiration Date: 06/10/2019

Approval Date: 09/06/2012

Phoenix Architectural Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 09-0408.04

A. DRAWINGS

1. *Drawing No. 09-083, titled " Sure Guard 2004 / Window Security Barrier Systems", sheets 1 through 6 of 6, prepared by Tilteco, Inc., dated June 02, 2009, signed and sealed by Walter A. Tillit Jr., P.E., on June 02, 2009.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Anchor calculations dated June 02, 2009, 11 pages, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. SG04-12, titled "Sure Guard 2004 / Window Security Barrier System", sheets 1 through 6 of 6, prepared by V. M. Engineering, Inc., dated August 27, 2012, signed and sealed by Morgan Villanueva, P.E., on August 29, 2012.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. OTHERS

1. *FBC 2010 Edition compliance letter, prepared by V. M. Engineering, Inc., dated June 11, 2012, signed and sealed by Morgan Villanueva, P.E.*



Helmy A. Makar, M.S., P.E.
Product Control Unit Supervisor
NOA No. 12-0608.01
Expiration Date: 06/10/2019
Approval Date: 09/06/2012

GENERAL NOTES

1. THIS SHUTTER "SURE GUARD PLUS 2004" HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1609 OF THE FLORIDA BUILDING CODE EDITIONS 2007 AND 2010, AS PER TAS 201-94, TAS 202-94 & TAS 203-94 OF THE TEST PROTOCOLS FOR HIGH-VELOCITY HURRICANE ZONES, AND AS PER HTL WITH TEST REPORT NO. 0340-0310-04. THE DESIGN LOADS COMPLY WITH SECTION 1626 OF THE FLORIDA BUILDING CODE EDITIONS 2007 AND 2010. THE WIND PRESSURES POSITIVE 73 PSF AND NEGATIVE 134 PSF ARE AS PER FBC 2007 EDITION (ALLOWABLE SERVICE DESIGN), TO OBTAIN THE EQUIVALENT WIND PRESSURES AS PER FBC 2010, DIVIDE THE WIND PRESSURES BY 0.6 FACTOR (ULTIMATE FACTOR DESIGN). IN ORDER TO VERIFY THAT ANCHORS ON THIS PRODUCT APPROVAL DOCUMENTS, AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS, AND IN THE LABORATORY THE TEST LOAD WAS 50% MORE OF DESIGN LOAD. THE "SURE GUARD PLUS 2004" IS ADEQUATE FOR IMPACT AND FATIGUE RESISTANCE AS SHOWN IN THE TEST RESULTS FROM LABORATORY. AND LAST BUT NOT LESS, THE "SURE GUARD PLUS 2004" MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (H.V.H.Z.)"

2. SYSTEM MOUNTS DIRECTLY TO THE MASONRY OPENING BY MEANS OF AN ALUMINUM "L" BAR (ITEM # 13 IN B.O.M.).

3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS ON SHEETS 2, 3 & 4. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

4. ALL COMPONENTS SHALL BE AS PER BILL OF MATERIALS SHEET 2 OF 6.

5. DESIGN PRESSURE RATING IS:

POSITIVE 73 PSF NEGATIVE 134 PSF

6. SELF TAPPING SCREWS MANUFACTURED TO ASTM A510-03, ZINC PLATED AS PER ASTM B-633 OR TO COMPLY WITH DIN 50018, WITH MINIMUM TENSILE STRENGTH OF 100 KSI.

7. WINDOW SECURITY BARRIER SYSTEM'S MANUFACTURER STAMP SHALL BE PLACED ON THE EXPOSED SURFACE OF THE FRAME (2) OR (7). ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABEL SHALL READ AS FOLLOWS:
PHOENIX ARCHITECTURAL PRODUCTS
SMYRNA, GA.
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

B. (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) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.A.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

(e) THIS P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

IMPACT RESISTANT SCREEN / PANEL CONSTRUCTION

FRAME CONSTRUCTION:

EXTRUDED ALUMINUM FRAME. THE CORNERS ARE MITERED BUTTED AND WELDED INCLUDING MID-HEIGHT RAIL CONNECTION TO JAMBS. USE ER5356 ELECTRODES. WELDING TO CONFORM WITH A.W.S. D1.2 LATEST EDITION REGULATIONS.

PANEL CONSTRUCTION:

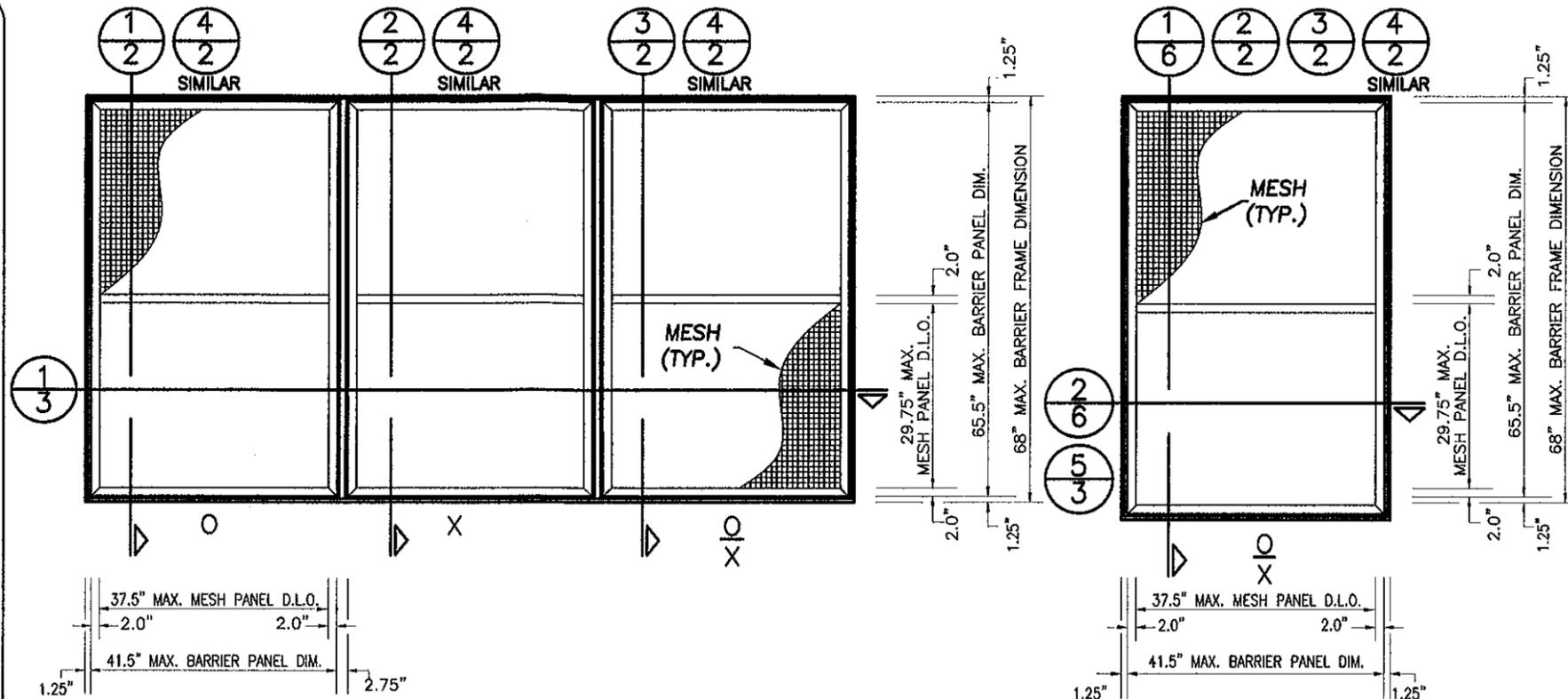
EACH PANEL IS MADE UP OF AN EXTRUDED 6063-T6 ALUM. FRAME MITERED AND ADDITIONALLY JOINED AT THE CORNERS WITH A 3.7" LONG "L" SHAPED ALUMINUM PLATE (SP-7).

THE SCREEN MATERIAL IS HIGH-TENSILE 304 STAINLESS STEEL WITH TENSILE STRENGTH BEFORE WEAVING OF 105.3 KSI AND 43% ELONGATION, PER ASTM A 2016.

MINIMUM EDGE DISTANCE PER FASTENING SCREWS/EDGE OF MESH IS 1/2".

MESH COUNT TO BE 12 X 12 STRANDS PER INCH AT 0.028" DIAMETER. MESH 43% OPEN.

THE OPERABLE PANELS ARE SECURED WITH A CONTINUOUS LATCH (1) MECHANISM EXTRUDED FROM ALUMINUM.



MULTIPLE UNIT EXTERIOR ELEVATION

SINGLE UNIT EXTERIOR ELEVATION

NOTE: BARRIER SCREENS MAY BE USED AS SINGLE OR UNLIMITED NUMBER OF HORIZONTAL PANELS. FIXED, CENTER HINGE, SIDE HINGE AND TOP HINGE MAY BE COMBINED.

INDEX	
SHEET	DESCRIPTION
1	GENERAL NOTES & TYPICAL ELEVATIONS
2	VERTICAL CROSS SECTIONS & BILL OF MATERIALS
3	HORIZONTAL CROSS SECTIONS
4	ANCHOR LOCATIONS
5	COMPONENTS
6	SINGLE SCREEN SIDE HINGE SECTIONS

PHOENIX ARCHITECTURAL PRODUCTS, INC.
HURRICANE BARRIERS, ALUMINUM WINDOWS & DOORS
3075 JONQUIL Drive, S.E., Smyrna, GA 30080
TEL 770.803.6380 FAX 770.803.6388
www.phoenixwindows.com

PRODUCT:
SURE GUARD 2004
WINDOW SECURITY BARRIER SYSTEM

V.M. Engineering, Inc.
c/o A. No. 27633
11278 S.W. 153rd Place
MIAMI, FLORIDA 33196
TEL: 786-281-6968
TEL: 305-383-5896



REV.No	DESCRIPTION	DATE
1	RENEWAL AS PER FBC 2010	8-27-12
2	-	-
3	-	-
4	-	-
5	-	-

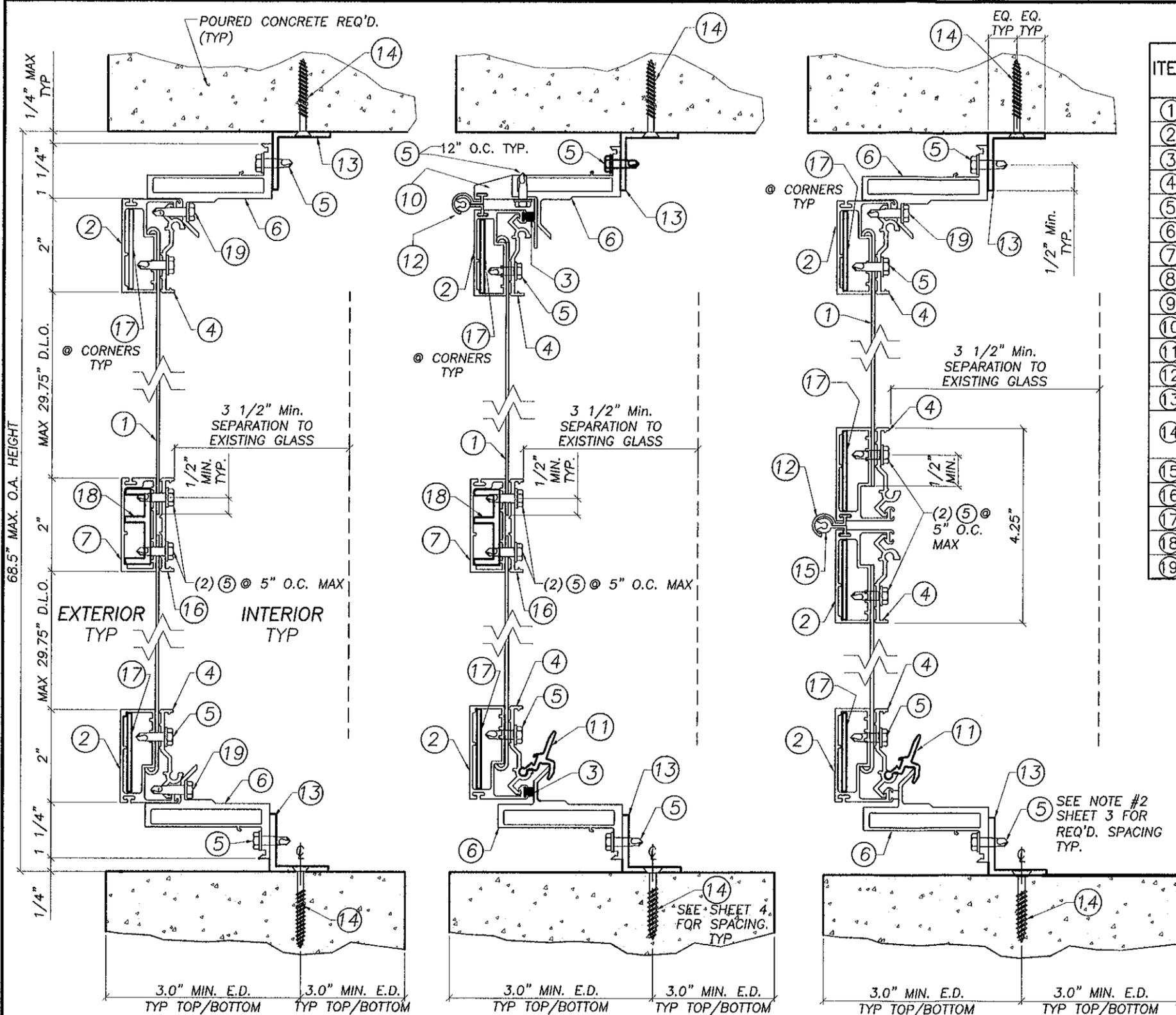
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DATE: 8-27-12

F.B.C.
(High Velocity Hurricane Zone)

DWG No: **SG04-12**
SHEET **1 OF 6**

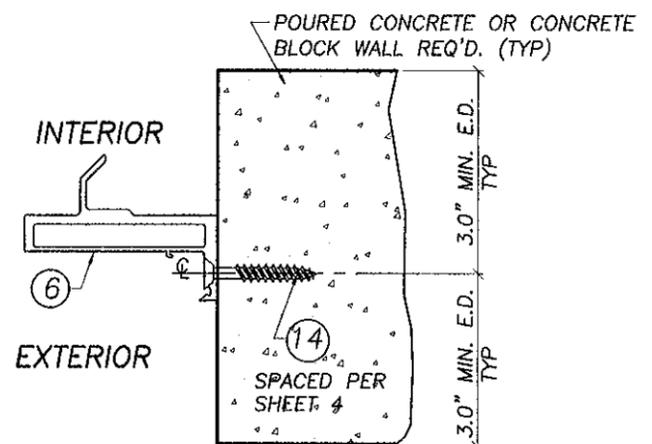
MIAMI-DADE COUNTY

PRODUCT REVISED
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Acceptance No **12-0608.01**
Expiration Date **06/10/2019**
By *Helmy A. Nasser*
Miami Dade Product Control



BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL MANUFACTURER
1	Wire Mesh	AISI 304 SERIES S.S.
2	Sash Frame CIE-3	Alum. 6063-T6
3	Weather-strip #568 .25" (Hope Webbing)	Wool Pyle
4	Securing Flange CIE-4	Alum. 6063-T6
5	#10 x 5/8" STS Hex Head Screw	ASTM A-510
6	Frame Jamb CIE-12	Alum. 6063-T6
7	Horizontal Sash Support CIE-6	Alum. 6063-T6
8	1.75" x 2.0" x .125" Ext. Alum. Tube	Alum. 6063-T6
9	#14x 2.5" Self Tapping Screw	ASTM A-510
10	Hinge Flange CIE-5	Alum. 6063-T6
11	Latch Mechanism CIE-8	Alum. 6063-T6
12	Hinge CIE-2	Alum. 6063-T6
13	"L" Bar .125" thick, each leg meas. 1.0"	Alum. 6063-T6
14	1/4" Tapper Anchor (min 1.25" embed. to block & 1.75" to concrete)	Elco fastening System LLC.
15	HINGE CIE-1	Alum. 6063-T6
16	HORIZONTAL SASH RETAINER CIE-7	Alum. 6063-T6
17	CORNER SUPPORT SP-7	Alum. 3003-H14
18	SASH SUPPORT CIE-13	Alum. 6063-T6
19	#10x1" STS Hex Head Screw	ASTM A-510



4 VERTICAL CROSS SECTION
2 Optional Surface Mount Method

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By *Helga A. Mc...*
Miami Dade Product Control

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C. 1278 S.W. 153rd Place
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TEL: 786-281-6968
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MORGAN VILLANUEVA
Professional Engineer
No. 80955
State of Florida
Professional Engineer License No. 80955

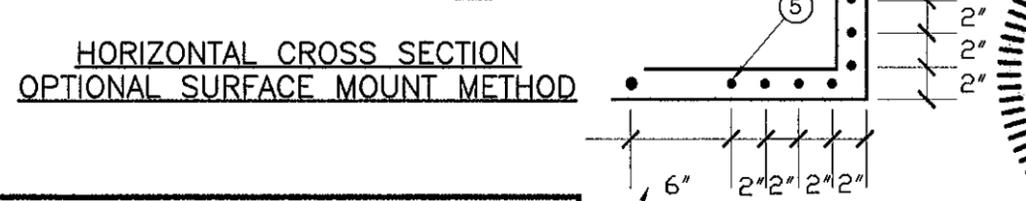
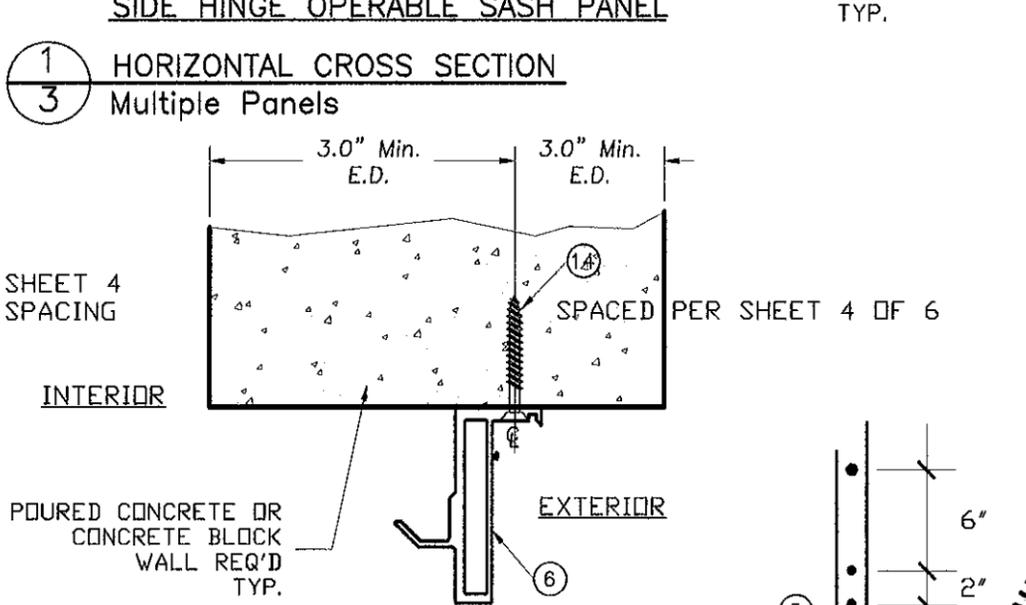
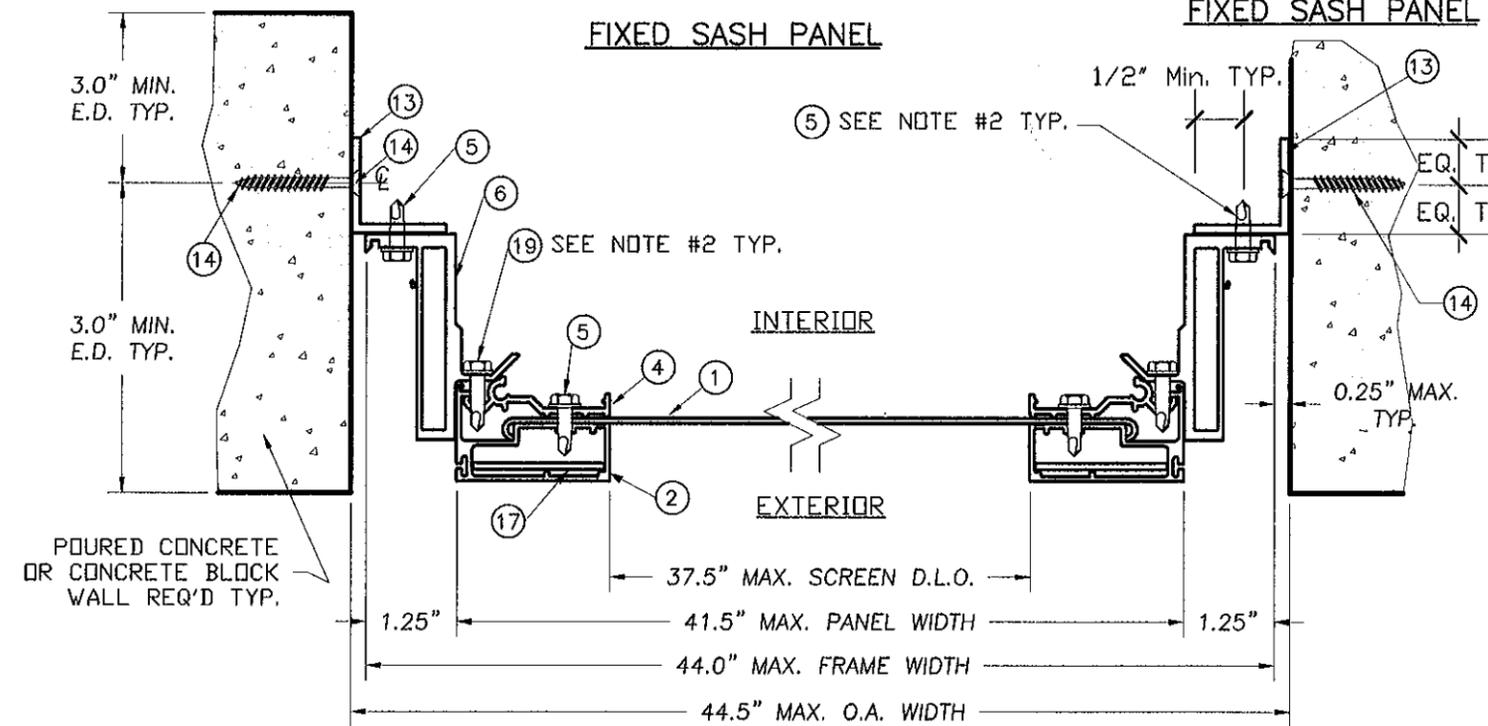
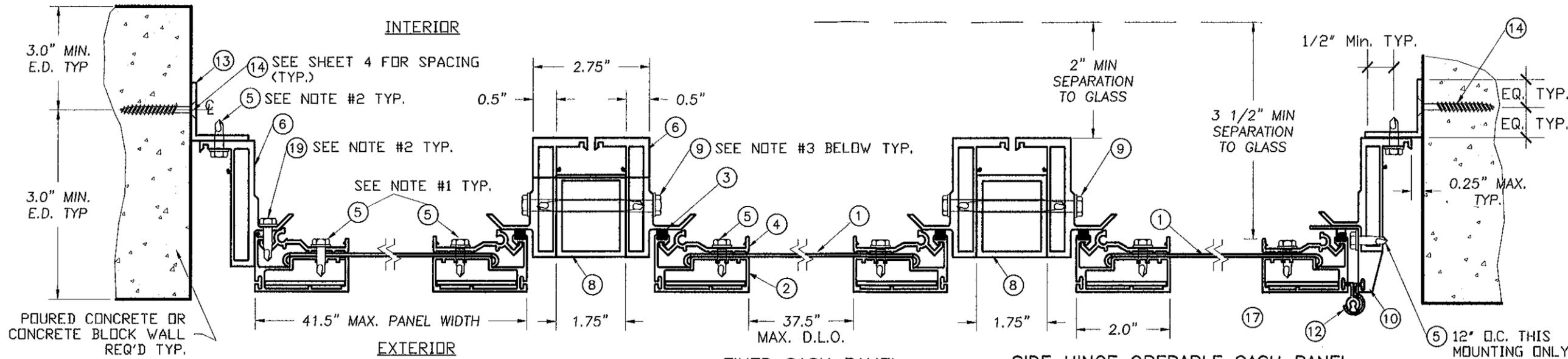
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(High Velocity Hurricane Zone)

DWG No: **SG04-12**
SHEET **2 OF 6**

MIAMI-DADE COUNTY

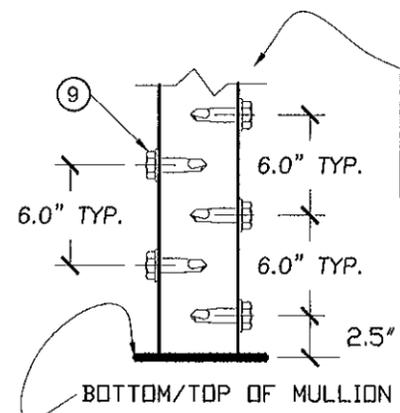


5 HORIZONTAL CROSS SECTION
3 Single Fixed Sash Panel

NOTE: 1 FOUR SCREWS IN EACH CORNER LEG
2" FROM EA. END AND SPACED 2"
O.C., THEN CONTINUOUS 6" O.C..

NOTE: 3
SCREWS 6" O.C. STAGGERED.
SPACED 2.5" MAX. FROM TOP & BOTTOM.

NOTE: 2
FIRST SCREW IS LOCATED AT 4" FROM
EACH CORNER, THEN 6" O.C. CONTINUOUS.



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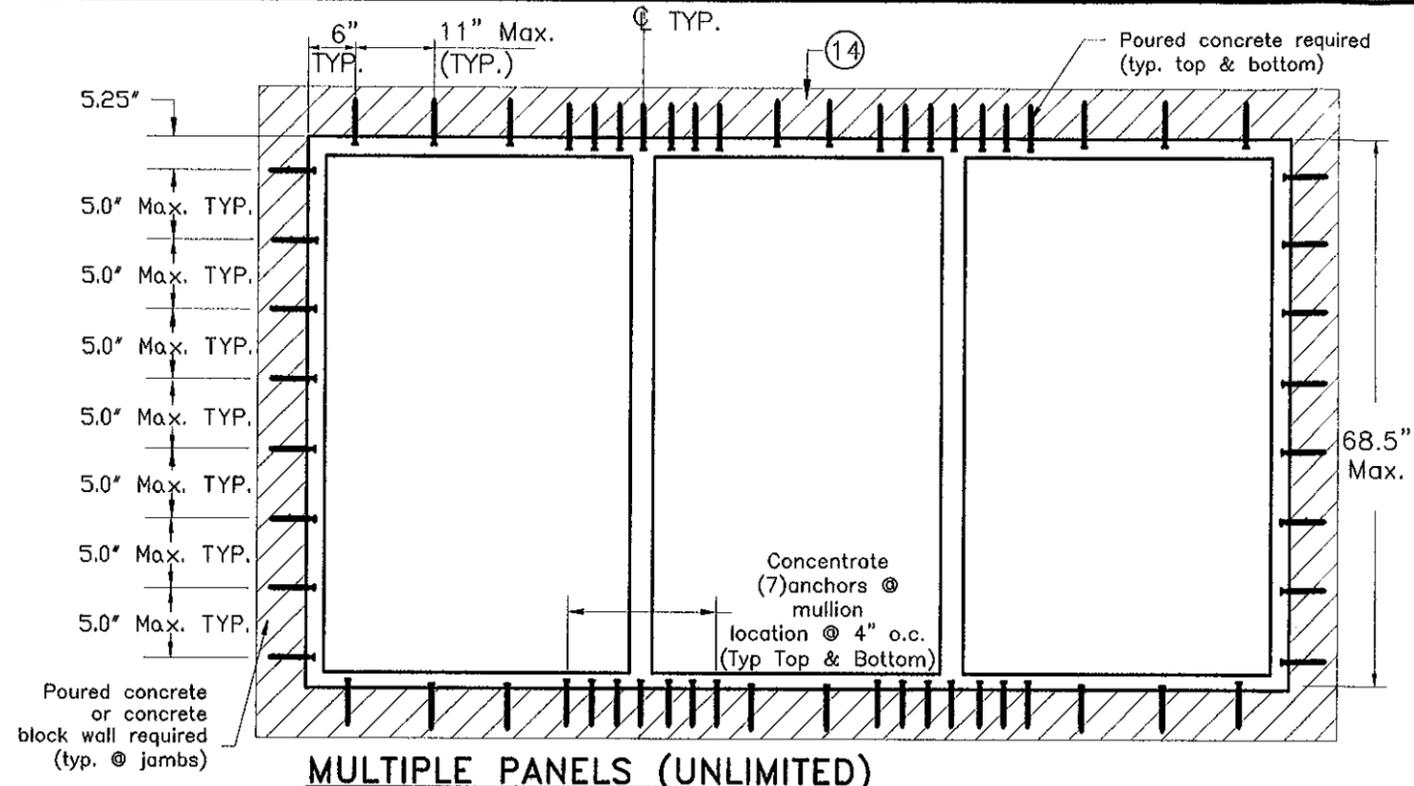
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TEL: 786-281-6968
TEL: 305-383-5896

MORGAN VILLANUEVA
LICENSED PROFESSIONAL ENGINEER
No. 90262
STATE OF FLORIDA
STRUCTURAL ENGINEER
MEMBER A.S.C.E.
MEMBER F.L.A.S.T.
MEMBER A.S.T.M.
MEMBER A.I.A.A.
MEMBER A.S.T.M.
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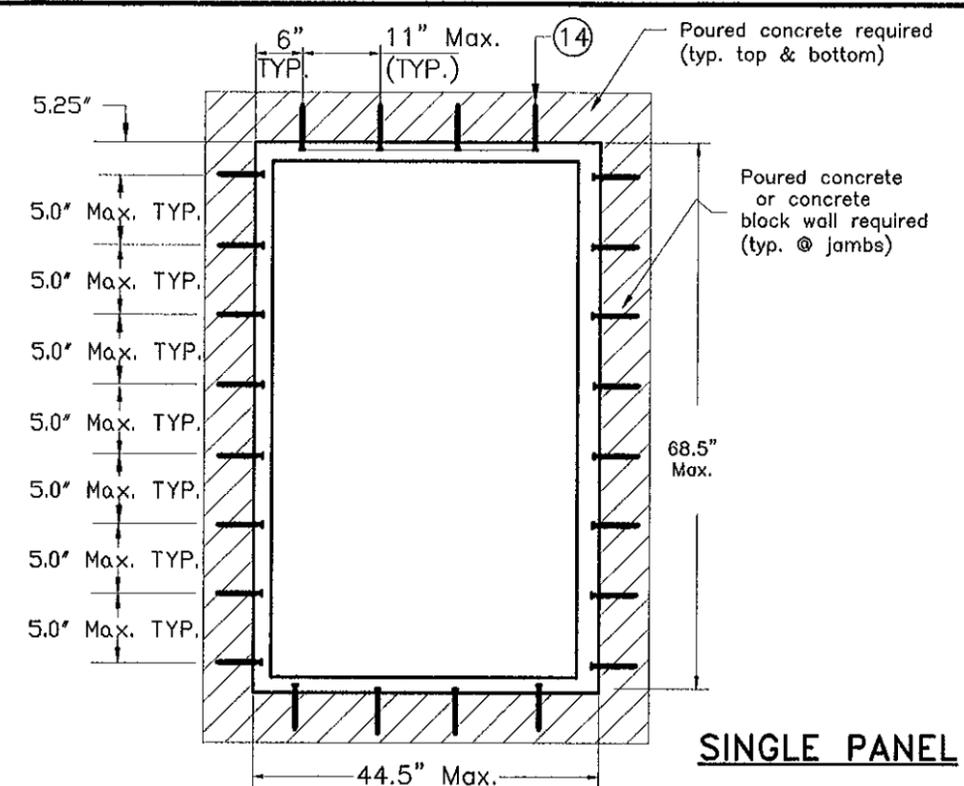
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SHEET 3 OF 6

PRODUCT REVISED
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By *Helga A. Miller*
Miami Dade Product Control
MIAMI-DADE COUNTY

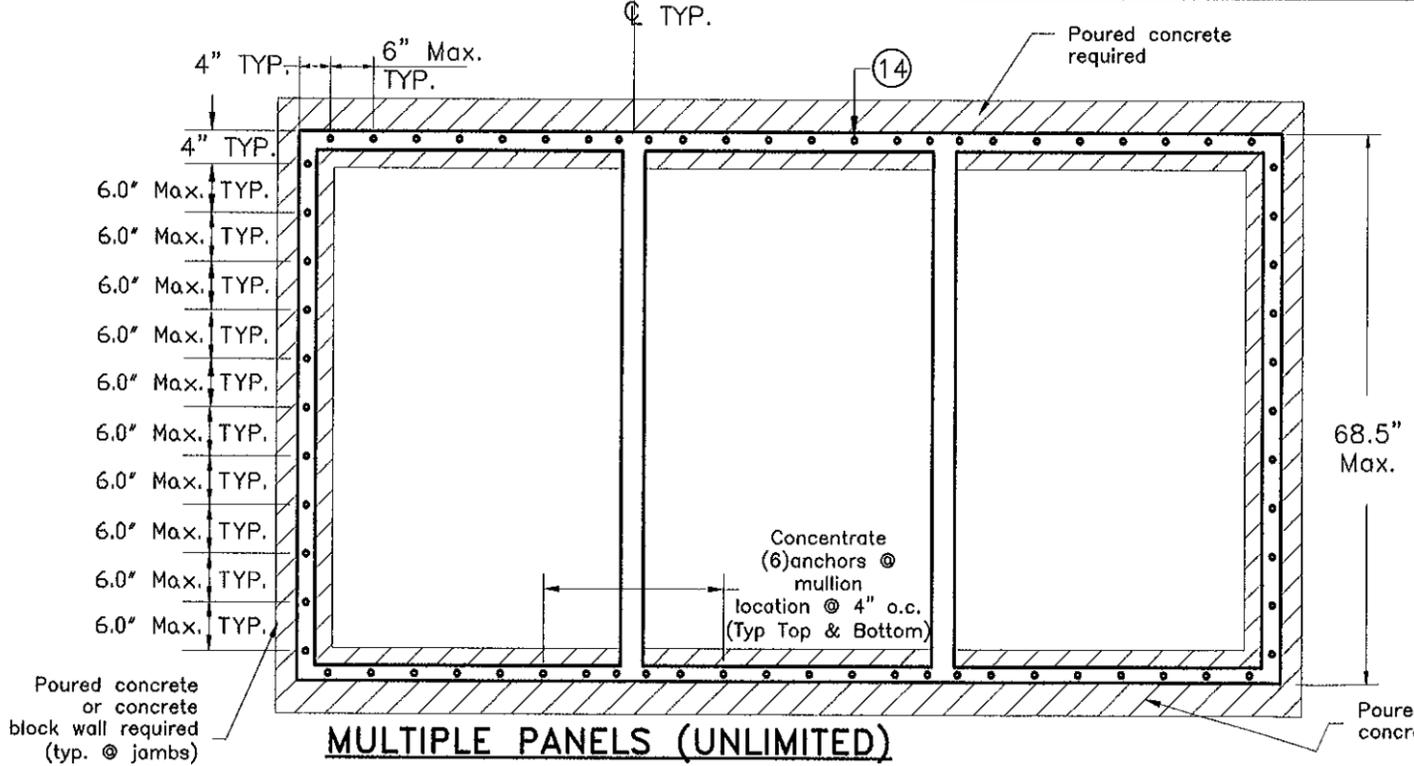


MULTIPLE PANELS (UNLIMITED)

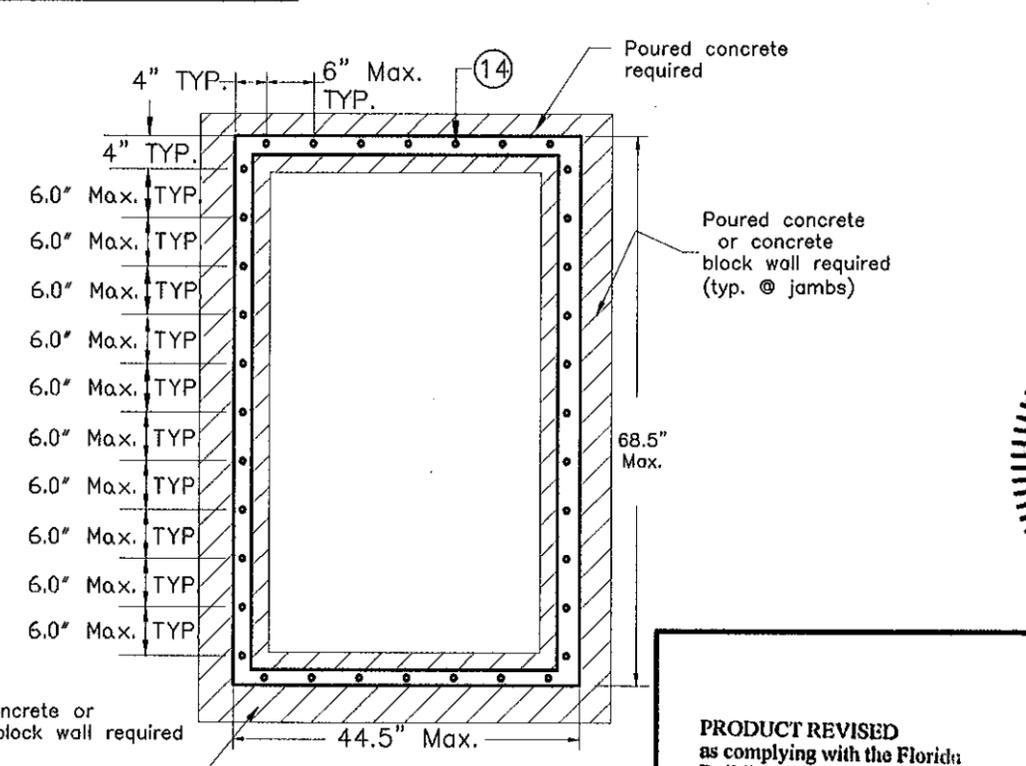


SINGLE PANEL

ANCHORAGE FOR TRAPPED MOUNTINGS



MULTIPLE PANELS (UNLIMITED)



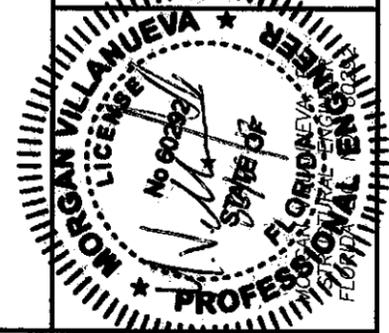
SINGLE PANEL

ANCHORAGE FOR SURFACE MOUNTINGS

PHOENIX
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 Miami Dade Product Control

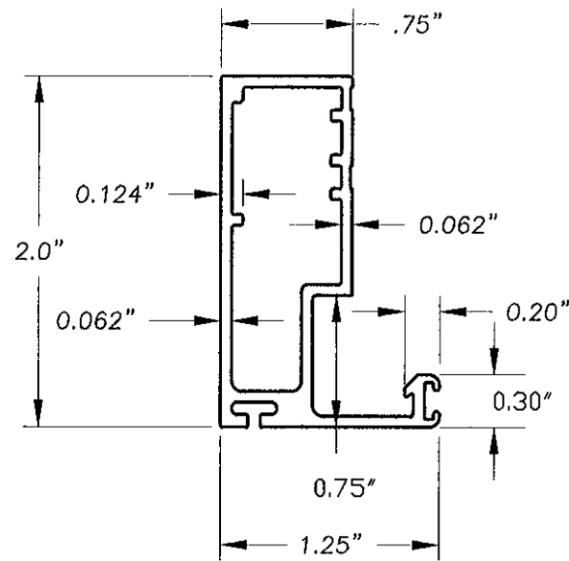
MIAMI-DADE COUNTY

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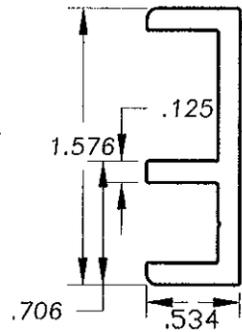
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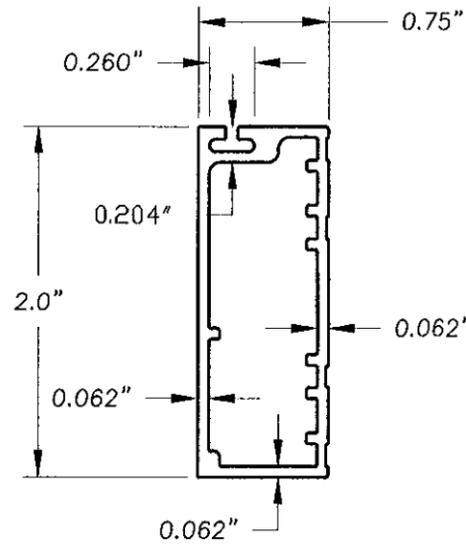
DWG No: **SG04-12**
 SHEET **4 OF 6**



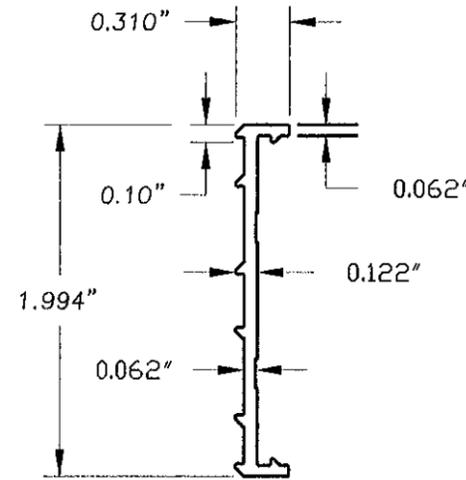
② CIE-3



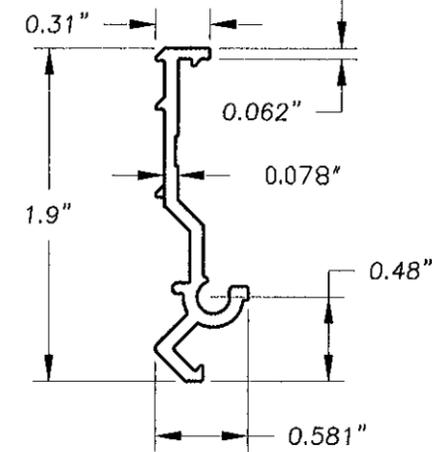
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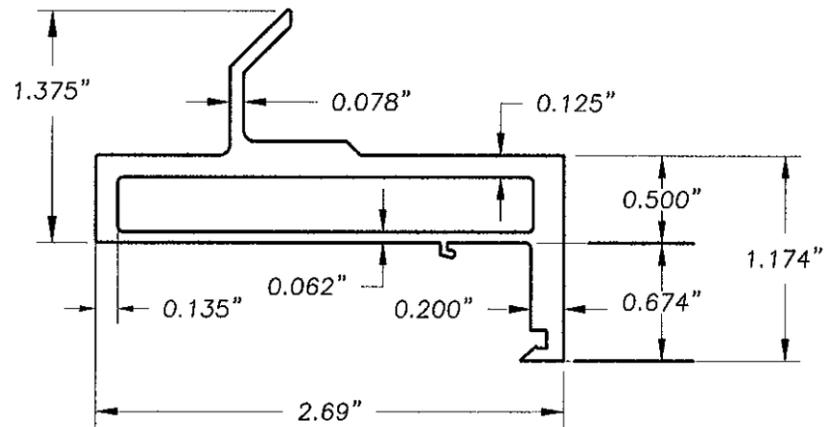
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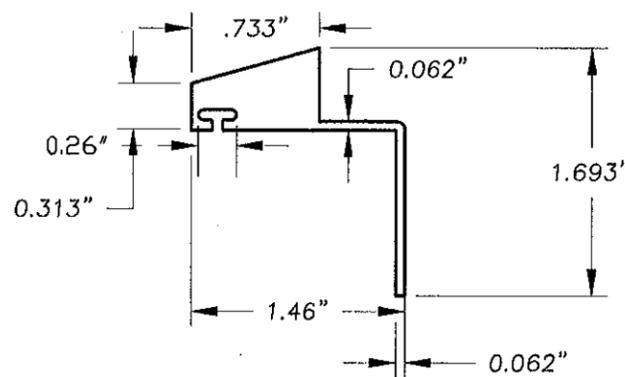
⑰ CIE-7



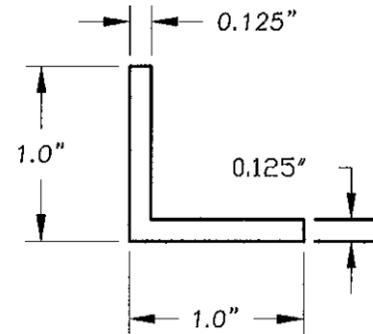
④ CIE-4



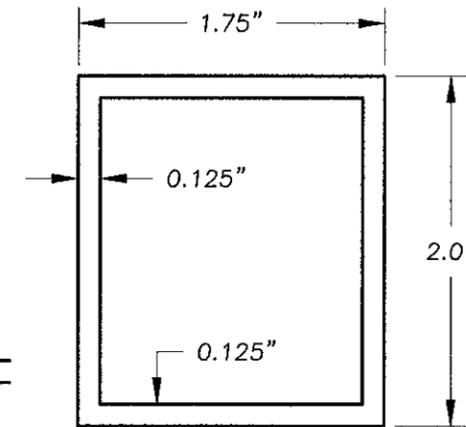
⑥ CIE-12



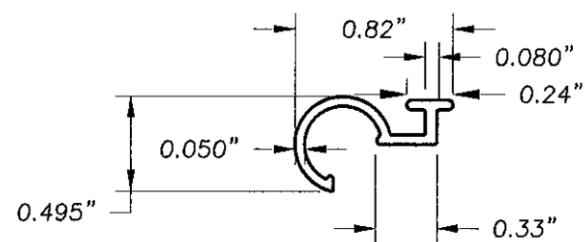
⑩ CIE-5



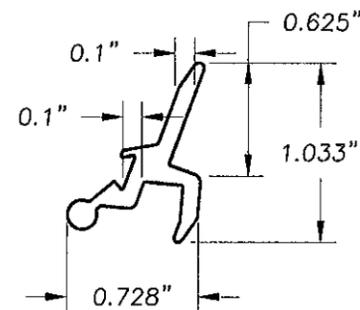
⑬ "L BAR"



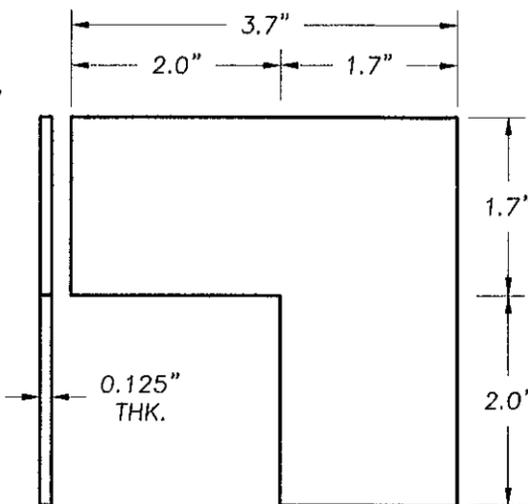
⑧ EXT. ALUM. TUBE



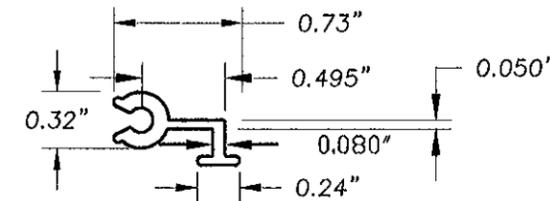
⑫ CIE-2



⑪ CIE-8



⑰ SP-7



⑮ CIE-1

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0608.01
Expiration Date 06/10/2019
By *Heather A. Miller*
Miami Dade Product Control

MIAMI-DADE COUNTY

PHOENIX
ARCHITECTURAL PRODUCTS, INC.
HURRICANE BARRIERS, ALUMINUM WINDOWS & DOORS
3075 JONQUIL Drive, S.E., Smyrna, GA 30080
TEL 770.803.6380 FAX 770.803.6388
www.phoenixwindows.com

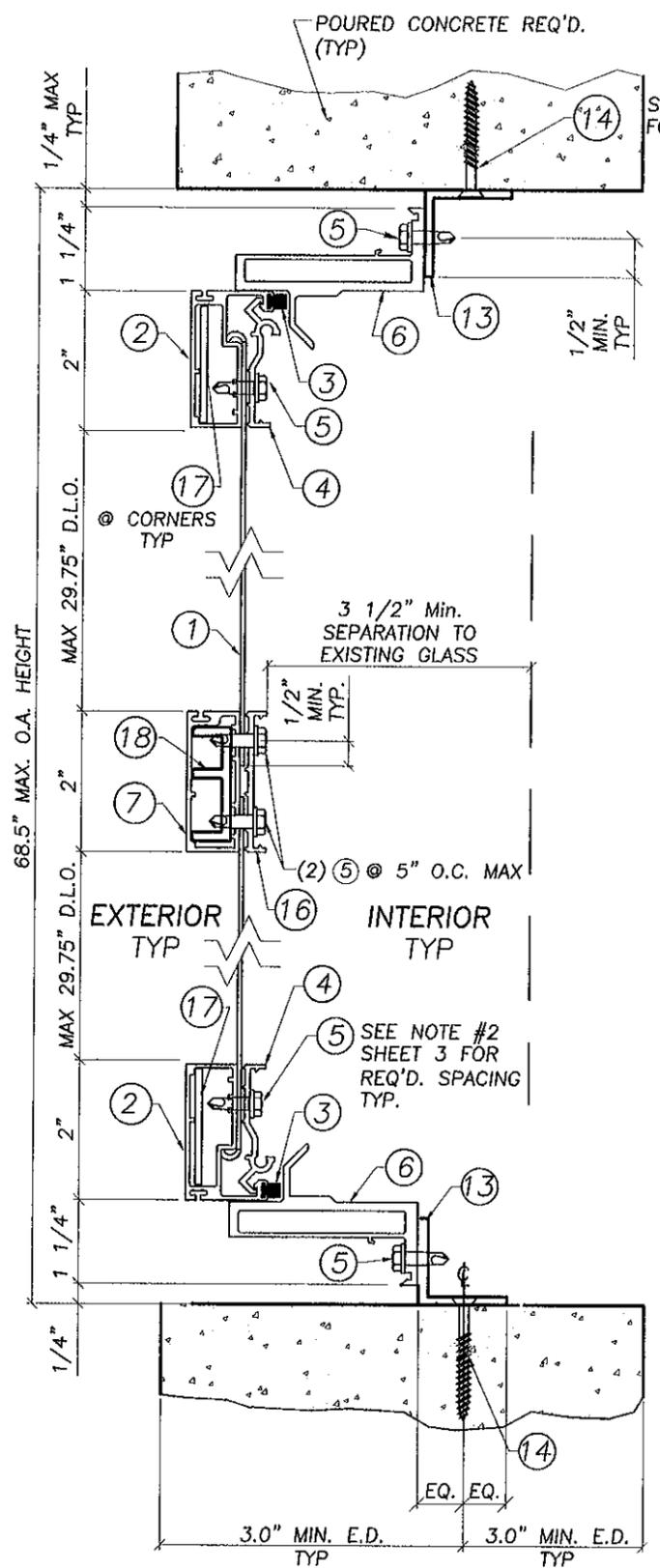
PRODUCT:
SURE GUARD 2004
WINDOW SECURITY BARRIER SYSTEM

V.M. Engineering, Inc.
of A. No. 27633
1278 S.W. 153rd Place
MIAMI, FLORIDA 33196
TEL: 786-281-6968
TEL: 305-383-5896

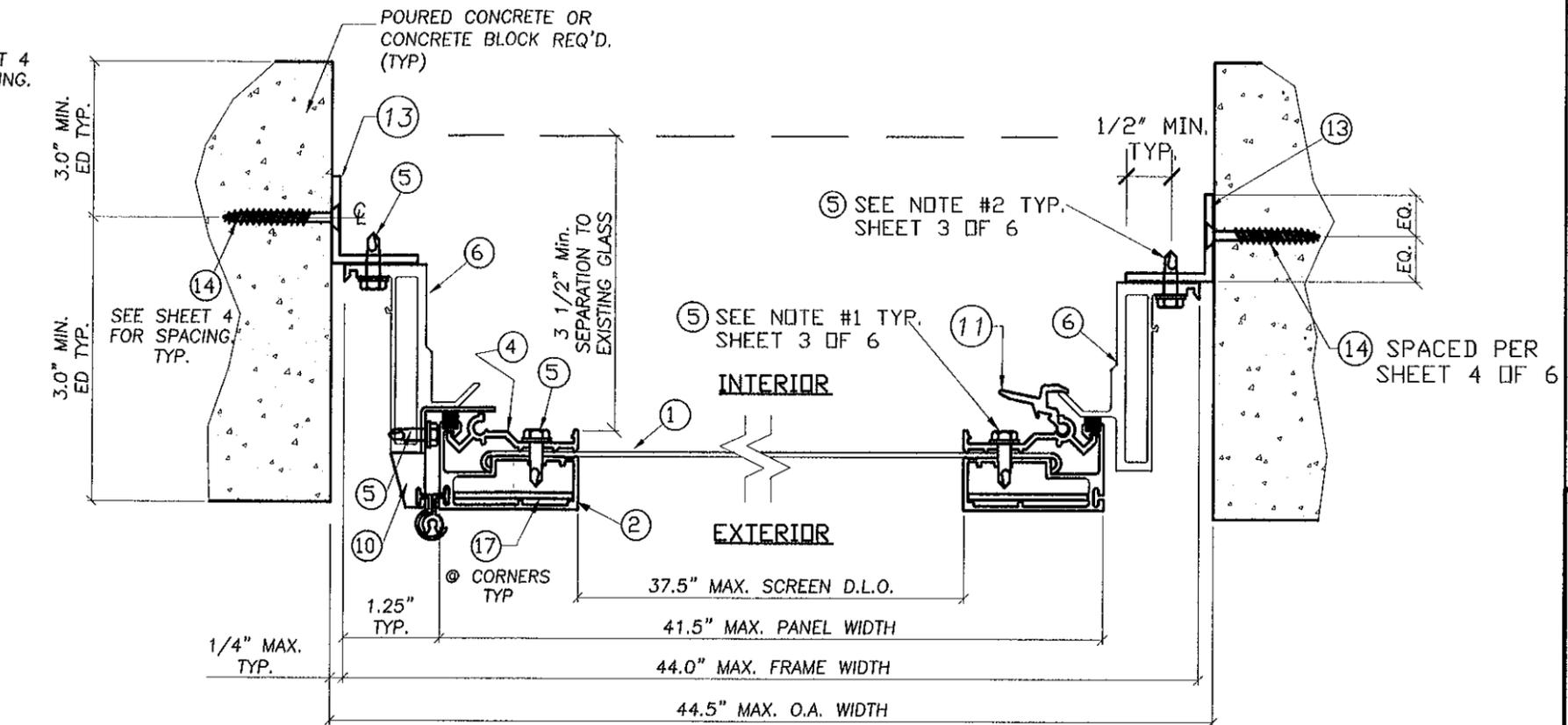


REV.No	DESCRIPTION	DATE
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2	-	-
3	-	-
4	-	-
5	-	-

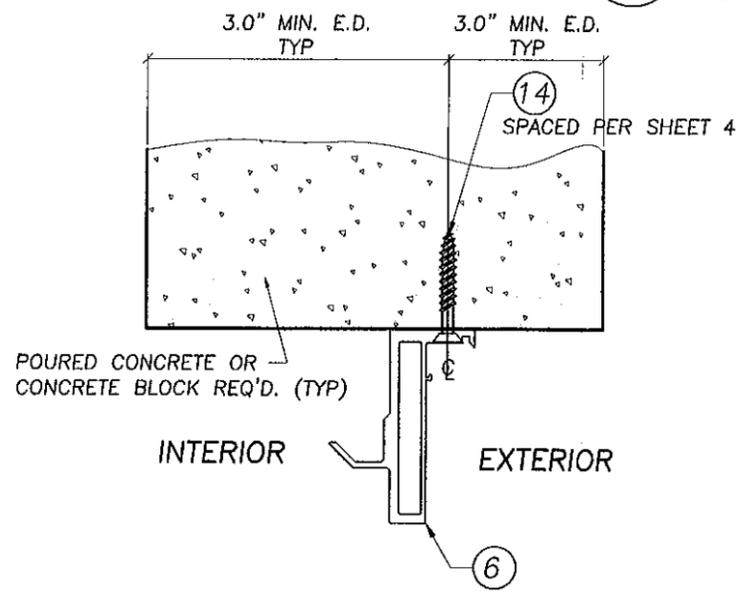
SCALE: AS SHOWN
DATE: 8-27-12
F.B.C.
(High Velocity Hurricane Zone)
DWG No: **SG04-12**
SHEET **5 OF 6**



1
6 VERTICAL CROSS SECTION
Side Hinge



2
6 HORIZONTAL CROSS SECTION
Side Hinge Operable Sash Panel



HORIZONTAL CROSS SECTION
Optional Surface Mount Method

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F.B.C.
(High Velocity Hurricane Zone)

DWG No: SG04-12
SHEET 6 OF 6