



MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

General Impact Glass & Windows, Corp.

290 West 78th Road

Hialeah, FL 33014

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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "20000 High Impact" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. 17-149, titled "Series 20000 High Impact Single Hung Window – Large Missile Impact Resistant", sheets 1 through 9 of 9, dated 08/08/17, with revision #1 dated 08/08/17, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., 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 Section.

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, model/series, 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# 17-1102.13 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.**



Manuel Perez
5/21/19

NOA No. 19-0409.08

Expiration Date: May 27, 2024

Approval Date: May 30, 2019

Page 1

General Impact Glass & Windows, Corp.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA#09-0319.08)
2. Drawing No. **17-149**, titled "Series 20000 High Impact Single Hung Window – Large Missile Impact Resistant", sheets 1 through 9 of 9, dated 08/08/17, with revision #1 dated 08/08/17, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.
(Submitted under NOA#17-1102.13)

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 202-94
along with marked-up drawings and installation diagram of an aluminum single hung window with 5/16" and 7/16" HS laminated glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5807**, dated 01/21/09, signed and sealed by Michael R. Wenzel, P.E.
(Submitted under NOA#09-0319.08)

C. CALCULATIONS

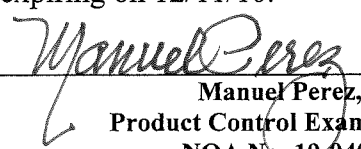
1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 03/17/09, and updated on 06/04/15 to comply with **FBC-5th Edition (2014)**, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.
(Submitted partially under NOA#09-0319.08)
2. Glazing complies with **ASTM E1300-04**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 06/25/15, expiring on 07/04/18.
2. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their "**Butacite® PVB Glass Interlayer**" dated 04/25/15, expiring on 12/11/16.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 19-0409.08
Expiration Date: May 27, 2024
Approval Date: May 30, 2019

General Impact Glass & Windows, Corp.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-6th Edition (2017)**, dated August 08, 2017, issued by Tilteco, Inc., signed and sealed signed and sealed by Walter A. Tillit, Jr., P.E. *(Submitted under NOA#17-1102.13)*
2. Statement letter of no financial interest, dated March 2, 2009, signed and sealed by Walter A. Tillit, P.E. *(Submitted under NOA#09-0319.08)*

G. OTHER

1. Notice of Acceptance No. **15-0624.02**, issued to General Impact Glass & Windows, Corp. for their Series "20000 High Impact" Aluminum Single Hung Window - L.M.I., approved on 10/01/15 and expiring on 05/27/19.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. None

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their "SentryGlas® (Clear and White) Glass Interlayers" dated 12/28/17, expiring on 07/04/23.
2. Notice of Acceptance No. **17-1114.14** issued to **Kuraray America, Inc.** for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 01/18/18, expiring on 07/08/19.

F. STATEMENTS

1. None.

G. OTHER

1. Notice of Acceptance No. **17-1102.13**, issued to General Impact Glass & Windows, Corp. for their Series "20000 High Impact" Aluminum Single Hung Window - L.M.I., approved on 12/28/17 and expiring on 05/27/19.


Manuel Perez, P.E.
Product Control Examiner

NOA No. 19-0409.08

Expiration Date: May 27, 2024

Approval Date: May 30, 2019

GENERAL NOTES:

1. SERIES 20000 HIGH IMPACT 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 2017 (6th EDITION) OF THE FLORIDA BUILDING CODE. SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 OF THE ABOVE MENTIONED CODE, USING ASCE 7-10 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2 BELOW.
- IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2 BELOW.
- 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. 2015.
- 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 # 5807 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1616 OF THE FLORIDA BUILDING CODE.
2. MAXIMUM A.S.D. DESIGN PRESSURE RATINGS FOR THIS WINDOW SHALL BE AS SHOWN ON SHEET 4 (SCHEDULE #1).
3. THIS SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.
4. THIS SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT IS APPROVED FOR AIR AND WATER INFILTRATION (SEE SCHEDULE #1 ON SHEET 4).
5. SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT SHALL COMPLY WITH SECTIONS 2411.5.1 & 2411.5.2 OF THE FLORIDA BUILDING CODE.
6. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER, WITH Fy= 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 & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.
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. AND SHALL COMPLY WITH SECTIONS 2411.3.3.3 & 2326 OF THE FLORIDA BUILDING CODE.

9. ANCHOR NOTES: EMBEDMENT AND EDGE DISTANCE ARE BEYOND ANY FINISH.
- (A) TO EXISTING POURED CONCRETE: (MIN. f'c = 3192 psi), MIN. EDGE DISTANCE (E.D.) = 2 1/2".
- 1/4"Ø TAPCON ANCHOR W/ 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT (22)), THRU 1" P.T. WOOD BUCK.
- (B) TO EXISTING A.S.T.M. C-90 CONCRETE BLOCK WALL. MIN. EDGE DISTANCE (E.D.) = 2 1/2".
- 1/4"Ø TAPCON ANCHOR W/ 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT (22)), THRU 1" P.T. WOOD BUCK.
- (C) TO EXISTING 2xP.T. WOOD BUCK. MIN. EDGE DISTANCE (E.D.) = 1".
- 1/4"Ø-14 TEK SCREW ANCHORS W/ 1 1/2" MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT (23)).
- (D) TO EXISTING MIN. 1/8" THICK ALUMINUM TUBE (6063-T5 ALLOY) MIN. EDGE DISTANCE (E.D.) = 1/2".
- 1/4"Ø-14 TEK SCREW, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT (23)).
- (E) TO EXISTING MIN. 12 GAGE STEEL MEMBER (ASTM A-500, A-653 OR A-36) MIN. EDGE DISTANCE (E.D.) = 1/2".
- 1/4"Ø-14 TEK SCREW, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT (23)).
10. PROVIDE 1/4" MAX. LOAD BEARING SHIM SPACE (TYP.).
11. REMAINING COMPONENTS FOR THIS ALUMINUM SINGLE HUNG WINDOW SYSTEM SHALL BE AS INDICATED ON BILL OF MATERIALS, SHEET 3 OF THIS DRAWING.
12. SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT MANUFACTURER'S LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION. ONE LABEL SHALL BE PLACED FOR EVERY UNIT. LABEL SHALL READ AS FOLLOWS:
- GENERAL IMPACT GLASS AND WINDOWS, CORP.**
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.

THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA

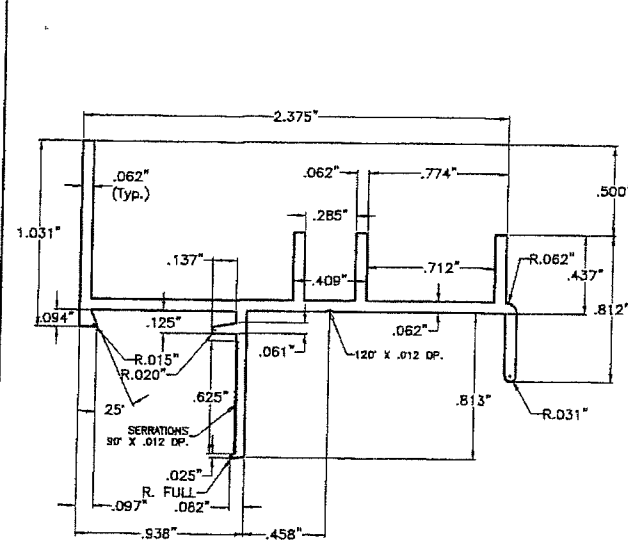
PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 19-0409-08
Expiration Date May 21, 2024
By Manuel Bries
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1102-13
Expiration Date 05/27/2019
By Hebert Miller
Miami Dade Product Control
MIAMI-DADE COUNTY

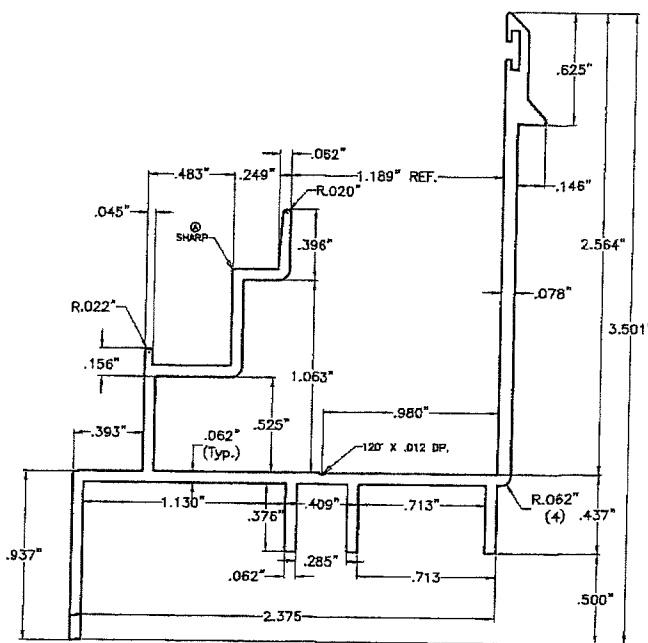
WALTER A. TILLIT
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 38th. 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

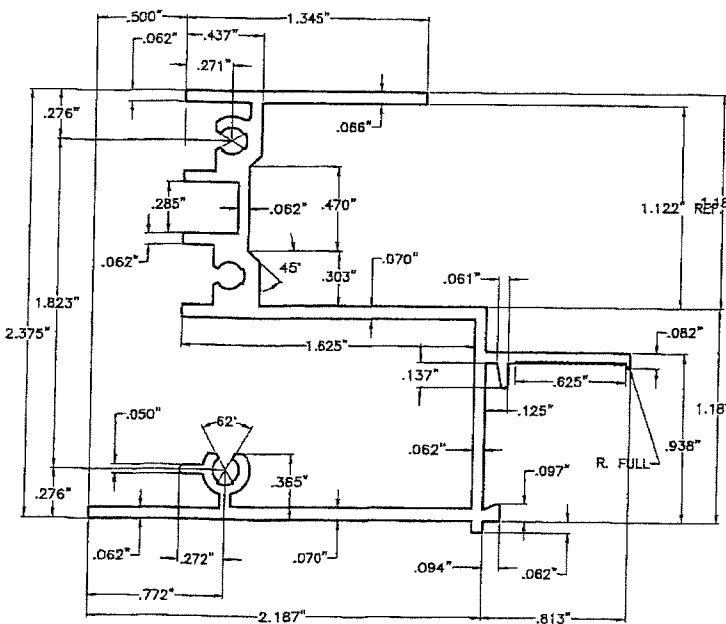
FLORIDA BUILDING CODE (High Velocity Hurricane Zone)					
SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT				DRAWN BY: L.C.	
 290 WEST 78 ROAD HIALEAH, FL 33014 PHONE: (305) 558-8103 FAX: (305) 558-6665 www.generalimpact.com				08/08/17 DATE	
				17-149 DRAWING No	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-163	08/08/17	3		
2			4		
				SHEET 1 OF 9	



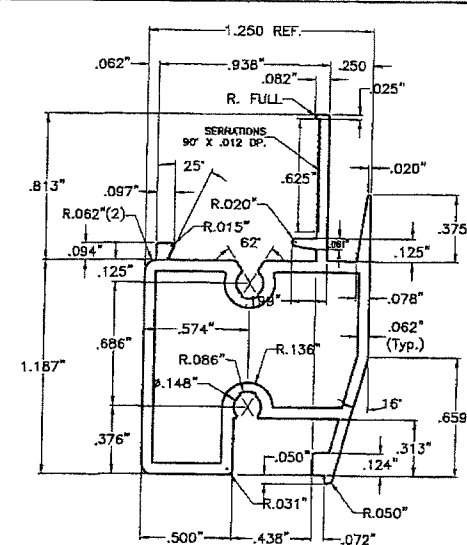
① FRAME HEAD
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER



② FRAME SILL
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER

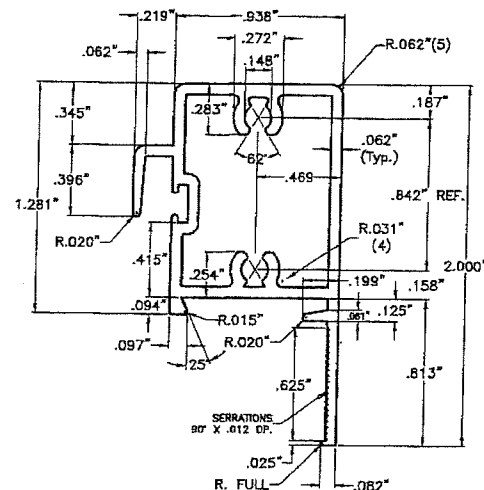


③ FRAME JAMB
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER

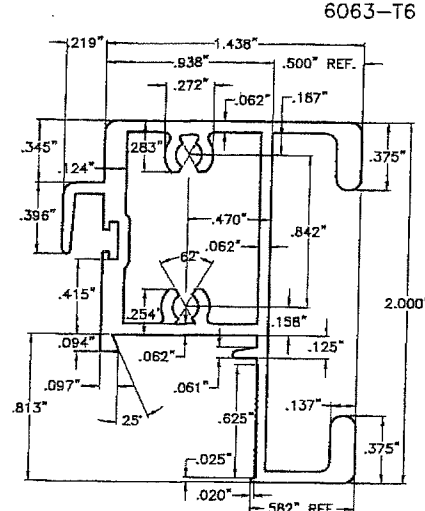


④ FIXED MTG. RAIL
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER

④① ALUM. INSERT BAR FOR ④
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER

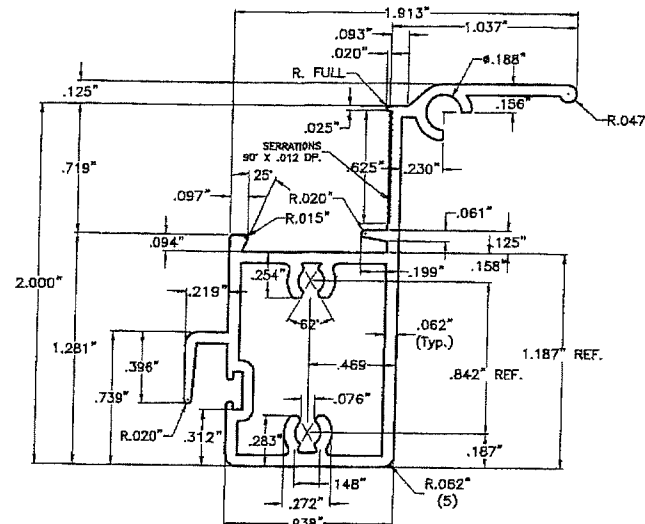


⑤ VENT TOP RAIL
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER

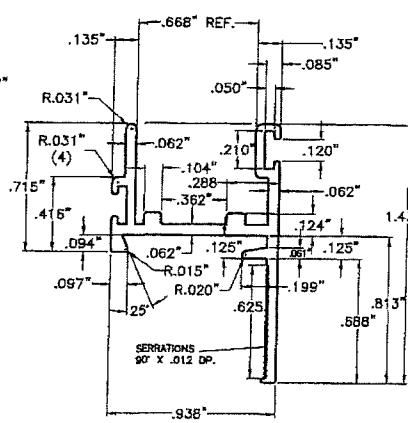


⑤A H.D. VENT TOP RAIL
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER

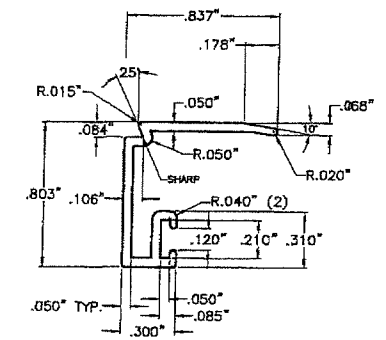
5A① ALUM. INSERT BAR FOR 5A
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER



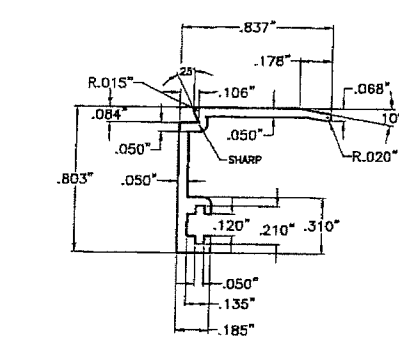
⑥ VENT BOTTOM RAIL
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER



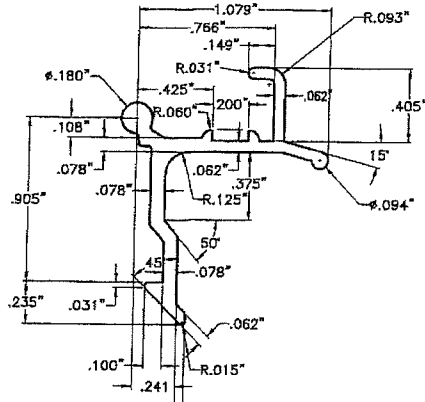
⑦ VENT SIDE RAIL
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER



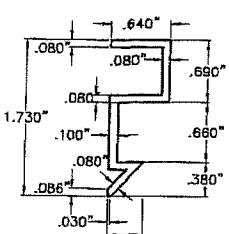
⑧ GLAZING BEAD FOR 5/16" GLASS
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER



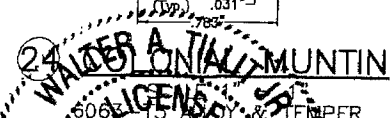
⑧A GLAZING BEAD FOR 7/16" GLASS
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER



⑨ VENT LATCH
SCALE 1" = 1"
6063-T6 ALLOY & TEMPER



⑬ SASH CAM
SCALE 1/2" = 1"
6063-T6 ALLOY & TEMPER



⑬ SASH CAM
SCALE 1/2" = 1"
6063-T6 ALLOY & TEMPER

COMPONENTS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 19-0409-08
Expiration Date May 21, 2024
By *Manuel Perez*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1102-13
Expiration Date 05/27/2019
By *Heidi A. Miller*
Miami-Dade Product Control

WALTER A. TILLIT, MUNTIN
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
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

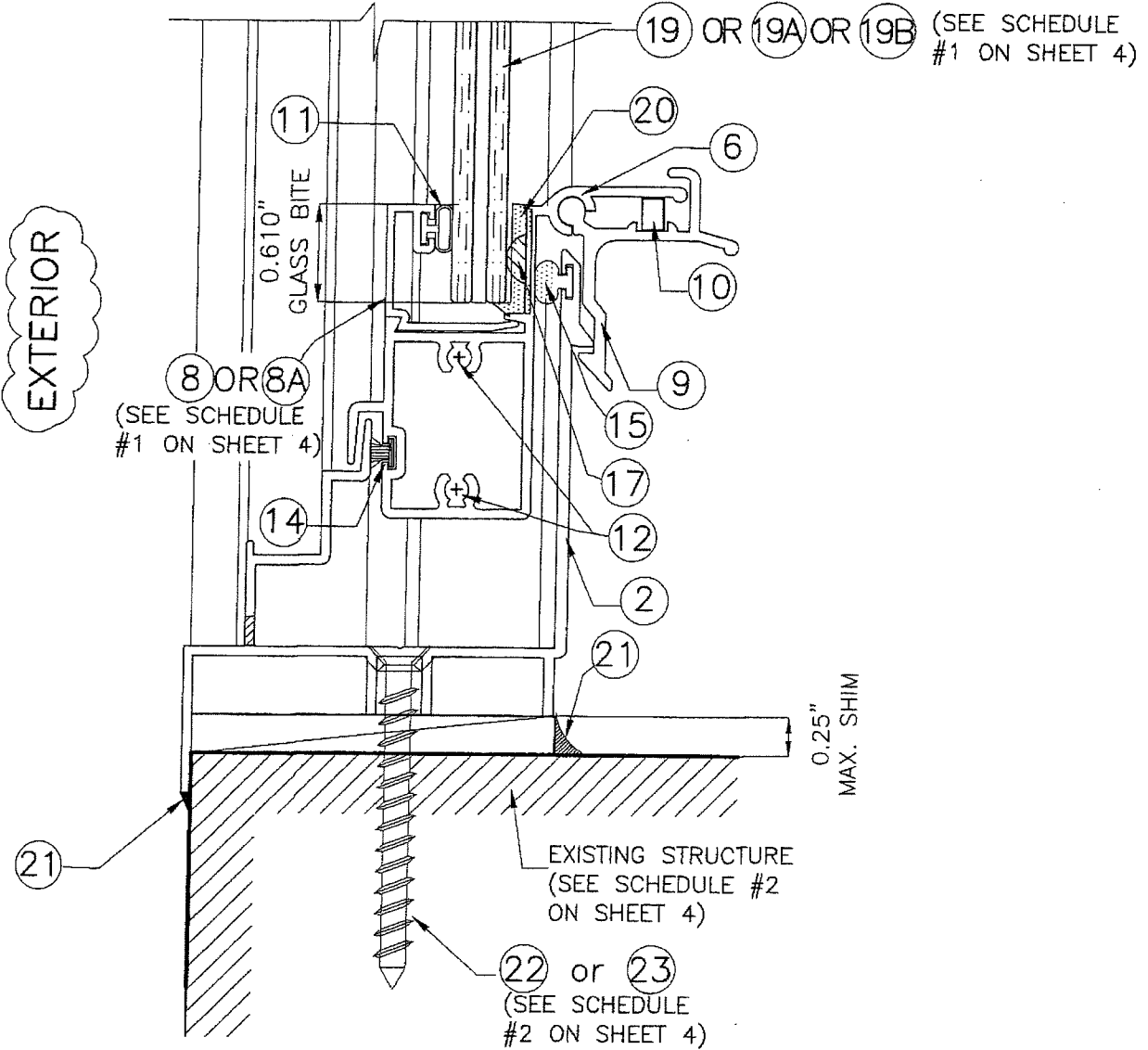
SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW
LARGE MISSILE IMPACT RESISTANT
GENERAL
IMPACT GLASS & WINDOWS
The Clear Solution
290 WEST 78 ROAD
HIALEAH, FL 33014
PHONE: (305) 558-8103
FAX: (305) 558-6665
www.generalimpact.com

DRAWN BY:
L.C.
08/08/17
DATE
17-149
DRAWING No
SHEET 2 OF 9

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

BILL OF MATERIALS

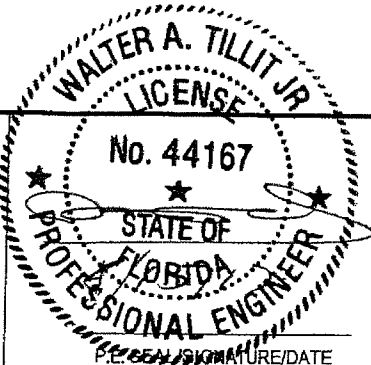
ITEM #	DESCRIPTION	MATERIAL
①	FRAME HEAD	6063-T6
②	FRAME SILL	6063-T6
③	FRAME JAMB	6063-T6
④	FIXED MEETING RAIL	6063-T6
④I	ALUMINUM INSERT BAR FOR ④	6063-T6
⑤	VENT TOP RAIL	6063-T6
⑤A	H.D VENT TOP RAIL	6063-T6
⑤AI	ALUMINUM INSERT BAR FOR ⑤A	6063-T6
⑥	VENT BOTTOM RAIL	6063-T6
⑦	VENT SIDE RAIL	6063-T6
⑧	GLAZING BEAD FOR 5/16" GLASS	6063-T6
⑧A	GLAZING BEAD FOR 7/16" GLASS	6063-T6
⑨	VENT LATCH @ 6" FROM ENDS	6063-T6
⑩	LATCH SPRING	ST. STEEL
⑪	GLAZING BULB VINYL	NEOPRENE
⑫	FRAME & VENT ASSEMBLY SCREWS, (20) #8 x 1" PH SMS	ST. STEEL
⑬	SASH CAM	6063-T6
⑭	VENT WEATHER STRIPPING	-
⑮	FRAME SILL WEATHER STRIPPING	-
⑯	BLOCK & TACKLE BALANCE	-
⑰	BUMPON SPACER, 1/4" DIAMETER HALF SPHERE, CLEAR. 3" FROM CORNERS MAX. AND 12" O.C. (MAX.), AT MID-GLASS BITE ELEVATION, BY FRANK LOWE RUBBEL AND GASKET FLB-28, CLEAR.	SILICONE
⑱	SASH STOP	-
⑲	GLASS, 0.326" OVERALL LAMINATED GLASS WITH (1) 1/8" HEAT STRENGTHENED GLASS + A 0.090" BUTACITE® PVB INTERLAYER BY KURARAY AMERICA, INC. + (1) 1/8" HEAT STRENGTHENED GLASS	-
⑲A	GLASS, 0.444" OVERALL LAMINATED GLASS WITH (1) 3/16" HEAT STRENGTHENED GLASS + A 0.090" BUTACITE® PVB INTERLAYER BY KURARAY AMERICA, INC. + (1) 3/16" HEAT STRENGTHENED GLASS	-
⑲B	GLASS, 0.444" OVERALL LAMINATED GLASS WITH (1) 3/16" HEAT STRENGTHENED GLASS + A 0.090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC. + (1) 3/16" HEAT STRENGTHENED GLASS	-
⑳	DOW CORNING 795	STRUCTURAL SILICONE
㉑	SEALANT, FIXED PANEL FRAME. FRAME ALL AROUND (EXTERIOR AND INTERIOR), FRAME CORNERS AND VENT CORNERS.	SILICONE
㉒	ANCHORS, 1/4"Ø TAPCON ANCHOR BY ITW BUILDEX, INC.	STEEL
㉓	ANCHORS, 1/4"Ø-14 TEK SCREW BY ITW BUILDEX, INC TO WOOD BUCK, ALUMNUM TUBE OR STEEL MEMBER.	STEEL
㉔	COLONIAL MUNTIN (OPTIONAL)	6063-T5
㉕	(4) NYLON GUIDES LOCATED AT VENT JAMB STILES AT 4 1/4" AND 35" FROM BOTTOM USING (1) #6 X 1/2" PH SMS.	NYLON
㉖	(2) NYLON GUIDES LOCATED AT EACH END OF VENT MEETING RAIL USING (2) #8 X 1" PH SMS.	NYLON



GLAZING DETAIL
(SECTION)
SCALE: N.T.S.

PRODUCT REVIEWED
as complying with the Florida
Building Code
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By Manuel Perez
Miami-Dade Product Control

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as complying with the Florida
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Expiration Date 05/27/2019
By Hebert A. Tillit Jr.
Miami-Dade Product Control
MIAMI-DADE COUNTY



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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
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e-mail: tilteco@aol.com
EB-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. 44167

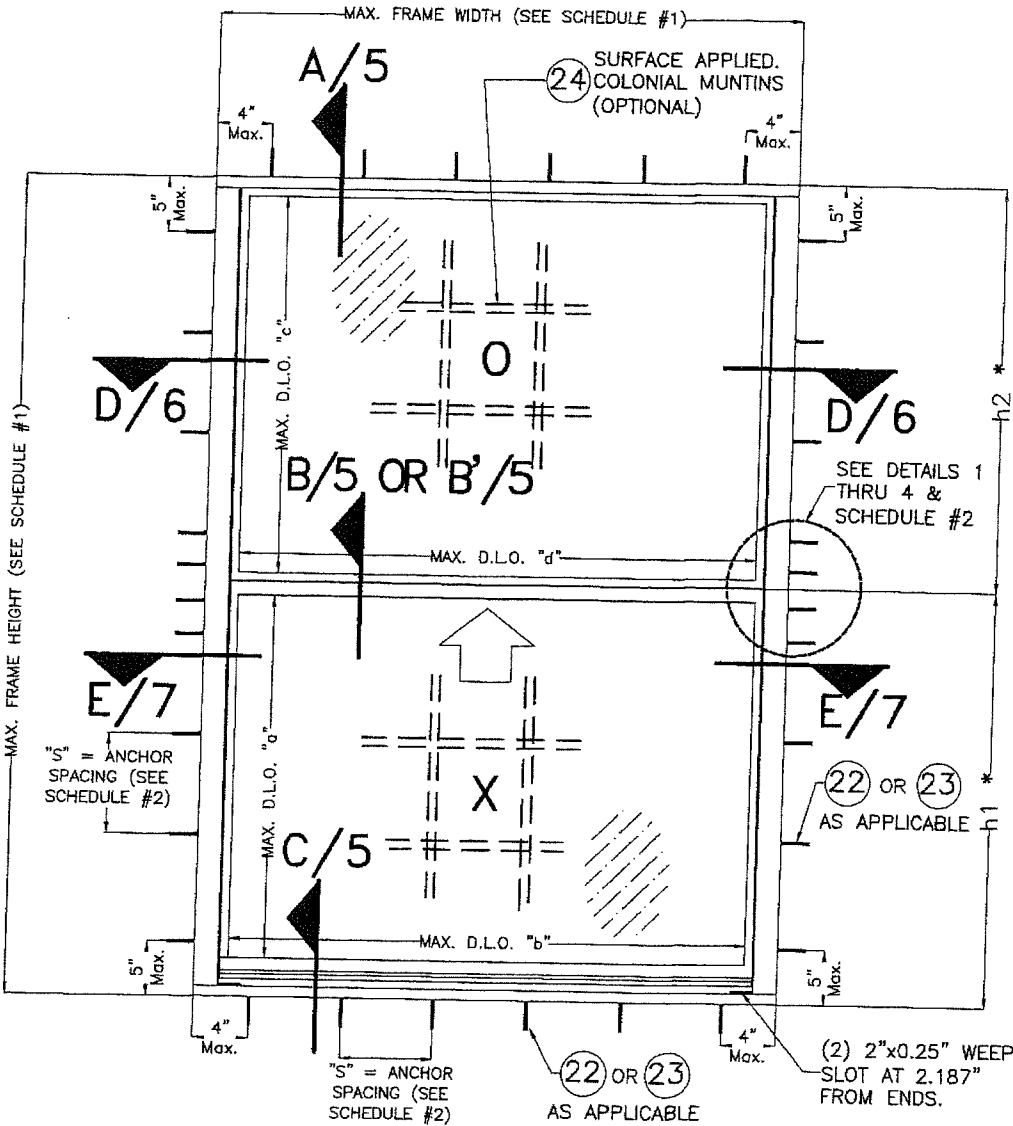
FLORIDA BUILDING CODE (High Velocity Hurricane Zone)					
SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT				DRAWN BY: L.C.	
				08/08/17 DATE	
				17-149 DRAWING No	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-163	08/08/17	3		
2			4		
					SHEET 3 OF 9

SINGLE HUNG WINDOW SCHEDULE #1

WINDOW CASE #	MAXIMUM A.S.D. DESIGN PRESSURE RATING	MAXIMUM WATER PRESSURE	MAXIMUM FRAME WIDTH	MAXIMUM FRAME HEIGHT	MAXIMUM D.L.O. "a"	MAXIMUM D.L.O. "b"	MAXIMUM D.L.O. "c"	MAXIMUM D.L.O. "d"	REQUIRED GLAZING BEAD	REQUIRED GLASS TYPE (SEE BILL OF MATERIALS)	REQUIRED MEETING RAIL
I	+80.0, -80.0 psf	12.0 psf	53 1/8"	74 1/4"	33 1/4"	47 3/8"	33 5/8"	47 1/4"	(8)	(19)	(4) + (5)
II	+90.0, -90.0 psf	13.5 psf	53 1/8"	74 1/4"	33 1/4"	47 3/8"	33 5/8"	47 1/4"	(8A)	(19A)	(4) + (4I) + (5A) + (5AI)
III	+100.0, -100.0 psf	15.0 psf	44"	74 1/4"	33 1/4"	38 1/8"	33 5/8"	38"	(8A)	(19A)	(4) + (4I) + (5A) + (5AI)
IV	+120.0, -150.0 psf	18.0 psf	53 1/8"	74 1/4"	33 1/4"	47 3/8"	33 3/8"	47 1/4"	(8A)	(19B)	(4) + (4I) + (5A) + (5AI)

MAXIMUM ANCHOR SPACING SCHEDULE #2

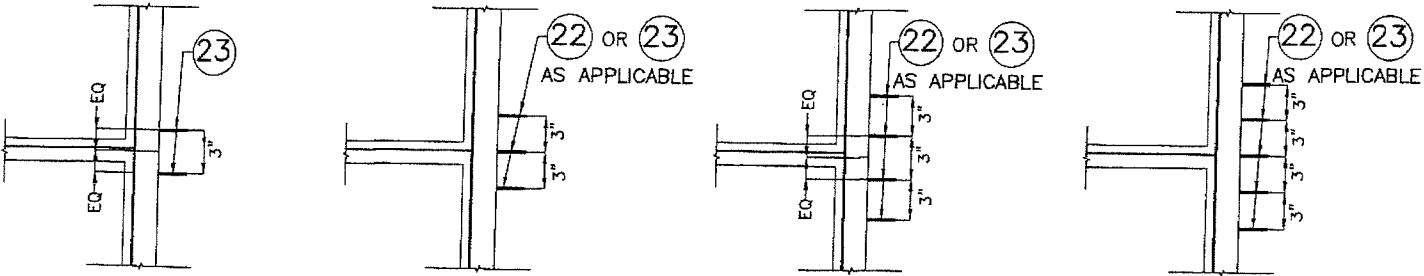
SUBSTRATE	ANCHOR TYPE	A.S.D. DESIGN PRESSURE RATING (psf)	HEAD/SILL	JAMBS	REQUIRED ADDITIONAL CONCENTRATION OF ANCHORS @ MEETING RAIL
CONCRETE	1/4" ITW/BUILDEX TAPCON ANCHOR (22)	80 OR LESS	13" o.c.	13" o.c.	SEE DETAIL 2 (3 ANCHORS)
		>80 TO 100	10 1/2" o.c.	10 1/2" o.c.	SEE DETAIL 3 (4 ANCHORS)
		>100 TO 150	7" o.c.	7" o.c.	SEE DETAIL 4 (5 ANCHORS)
BLOCK	1/4" ITW/BUILDEX TAPCON ANCHOR (22)	80 OR LESS	13" o.c.	13" o.c.	SEE DETAIL 2 (3 ANCHORS)
		>80 TO 100	10 1/2" o.c.	10 1/2" o.c.	SEE DETAIL 3 (4 ANCHORS)
		>100 TO 150	7" o.c.	7" o.c.	SEE DETAIL 4 (5 ANCHORS)
WOOD	1/4"-14 ITW/BUILDEX TEK SCREW (23)	80 OR LESS	15 1/2" o.c.	13" o.c.	SEE DETAIL 2 (3 ANCHORS)
		>80 TO 100	12 1/2" o.c.	12 1/2" o.c.	SEE DETAIL 2 (3 ANCHORS)
		>100 TO 150	8 1/2" o.c.	8 1/2" o.c.	SEE DETAIL 4 (5 ANCHORS)
ALUMINUM TUBE OR STEEL MEMBER	1/4"-14 ITW/BUILDEX TEK SCREW (23)	80 OR LESS	18 1/2" o.c.	13" o.c.	SEE DETAIL 1 (2 ANCHORS)
		>80 TO 100	14 1/2" o.c.	13" o.c.	SEE DETAIL 2 (3 ANCHORS)
		>100 TO 150	9 1/2" o.c.	9 1/2" o.c.	SEE DETAIL 3 (4 ANCHORS)



TYPICAL EXTERIOR ELEVATION (OX).

SCALE: N.T.S.

* NOTE: h1 AND h2 MAY BE DIFFERENT FROM EACH OTHER BUT THEY SHALL BE SUCH THAT h1 + h2 DOES NOT EXCEED MAXIMUM FRAME HEIGHT INDICATED ON SCHEDULE #1. ADDITIONALLY, DAYLIGHT OPENINGS CREATED BY h1 AND h2 SHALL BE SUCH THAT MAXIMUM DAYLIGHT OPENINGS "a" AND "c" INDICATED ON SCHEDULE #1 ARE NOT EXCEEDED.



DETAIL 1
2 ANCHORS

DETAIL 2
3 ANCHORS

DETAIL 3
4 ANCHORS

DETAIL 4
5 ANCHORS

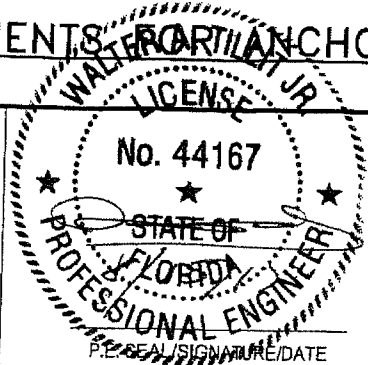
REQUIREMENTS FOR ANCHORS CONCENTRATION AT ENDS OF MEETING RAILS

SCALE: N.T.S.

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 19-0409-08
Expiration Date May 21, 2024
By: *Manuel Perez*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1102-13
Expiration Date 05/27/2019
By: *Heidi A. Miller*
Miami-Dade Product Control
MIAMI-DADE COUNTY



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SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW
LARGE MISSILE IMPACT RESISTANT
GENERAL
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The Clear Solution
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HALEAH, FL 33014
PHONE: (305) 558-8103
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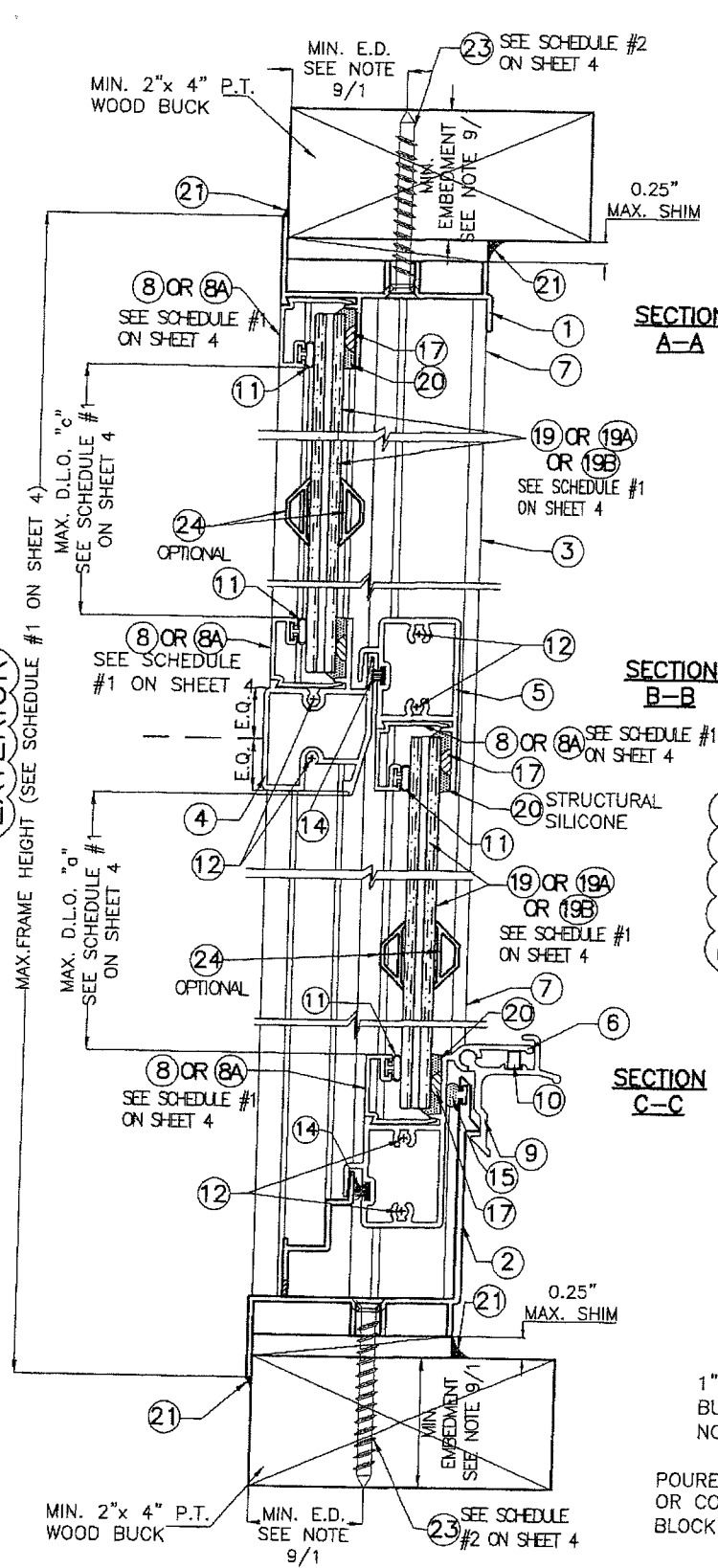
DRAWN BY:
L.C.

08/08/17
DATE

17-149
DRAWING No

SHEET 4 OF 9

EXTERIOR



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

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1102.13
Expiration Date 05/27/2019
By *Walter A. Tillit Jr.*
Miami-Dade Product Control

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
P.E. SIGNATURE/DATE

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 19-0409.08
Expiration Date May 27, 2024
By *Manuel Perez*
Miami-Dade Product Control

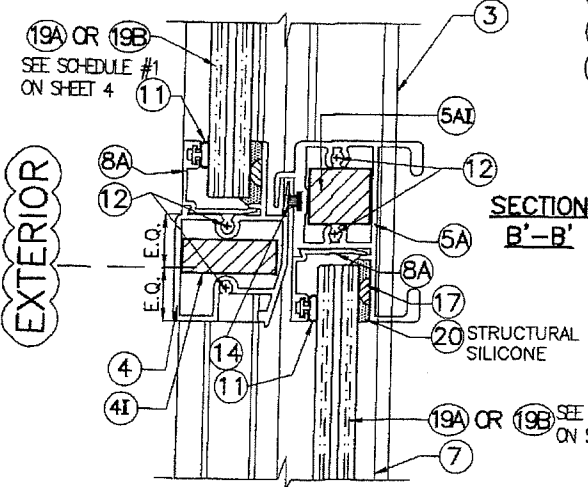
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REV. NO.	DESCRIPTION	DATE	REV. NO.	DESCRIPTION	DATE
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2			4		

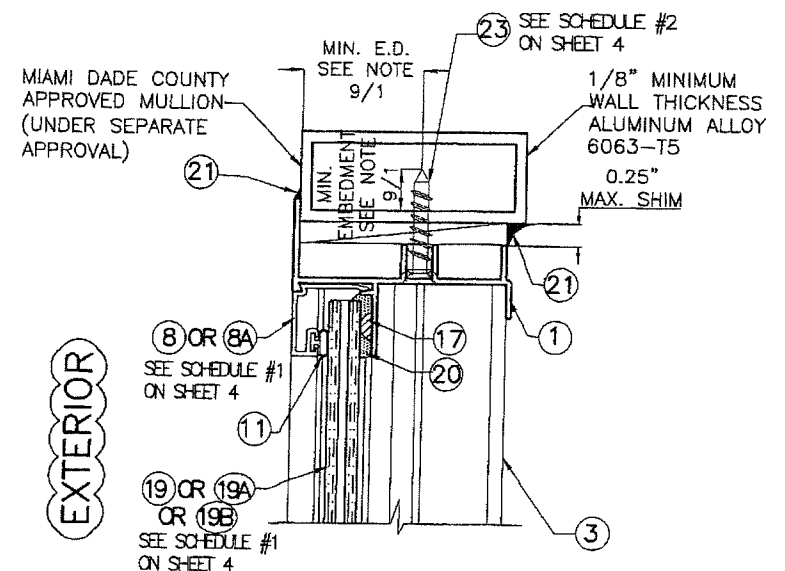
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L.C.
08/08/17
DATE
17-149
DRAWING No
SHEET 5 OF 9

EXTERIOR



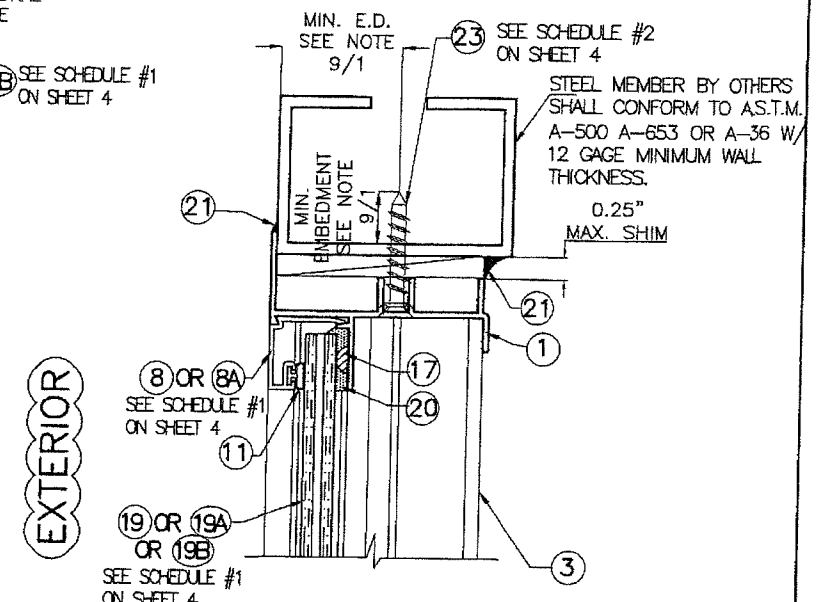
AT MEETING RAILS 4 & 5A W/
4I & 5AI REINFORCEMENTS

EXTERIOR



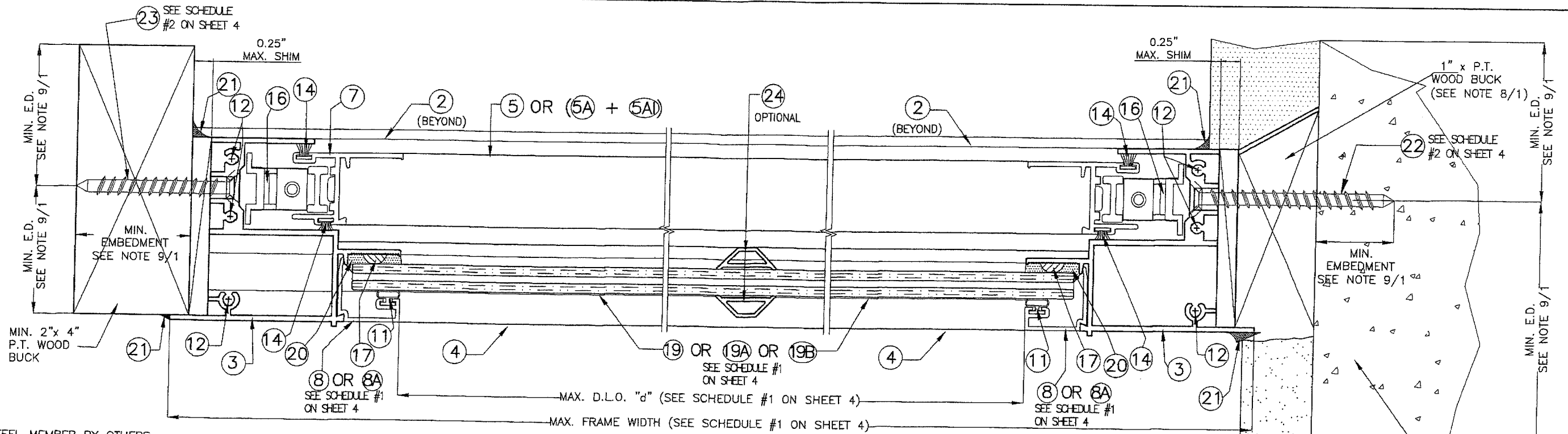
SECTION A-A (SECTION C-C sim.)
INSTALLATION INTO
ALUMINUM MULLION
SCALE: 3/8"=1"

EXTERIOR

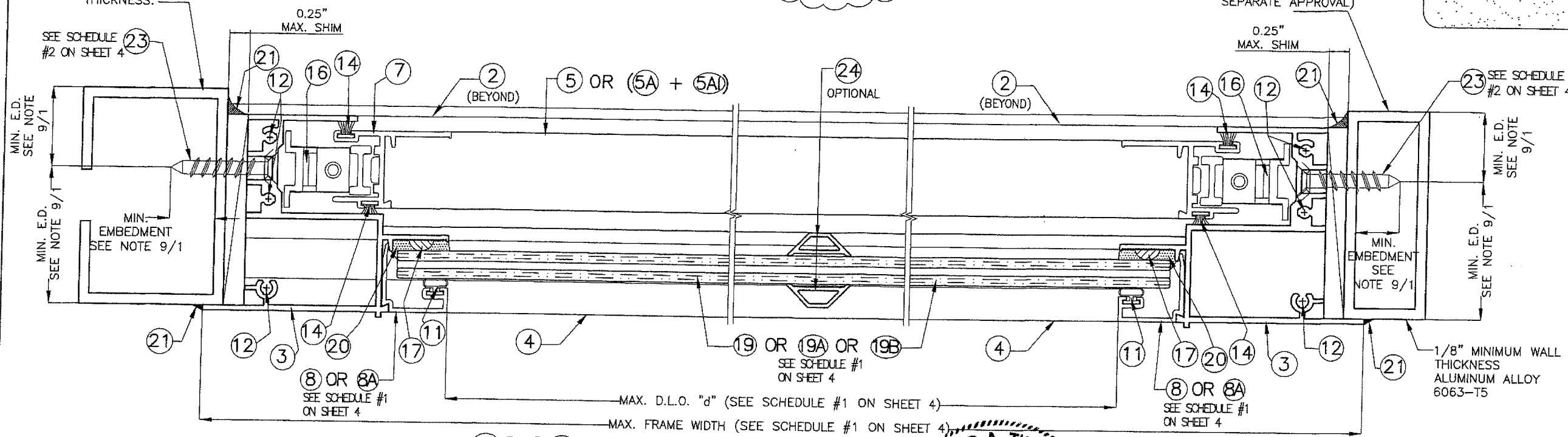


SECTION A-A (SECTION C-C sim.)
INSTALLATION INTO
STEEL MEMBER
SCALE: 3/8"=1"

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)



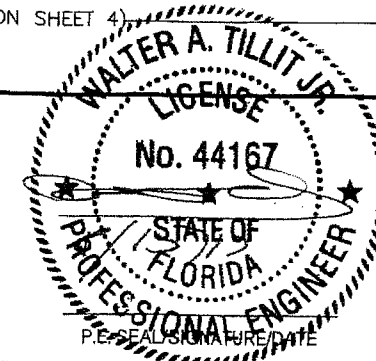
EXTERIOR



EXTERIOR

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

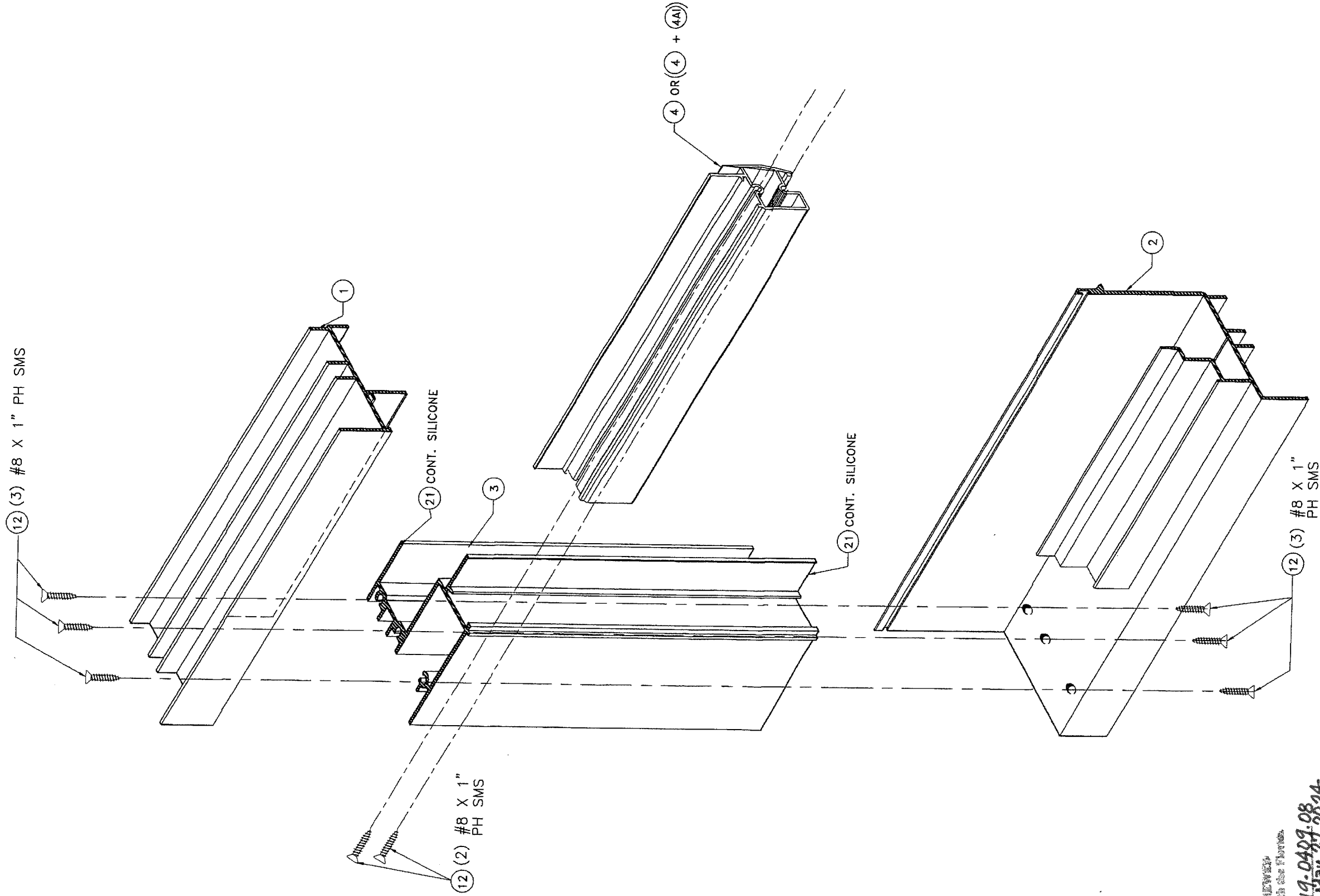
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 17-1102-13
 Expiration Date 05/27/2019
 By *Heidi Allen*
 Miami Dade Product Control
 MIAMI-DADE COUNTY



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				08/08/17	DATE
				17-149	DRAWING No
290 WEST 78 ROAD HIALEAH, FL 33014 PHONE: (305) 558-8103 FAX: (305) 558-6665 www.generalimpact.com				SHEET 6 OF 9	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		

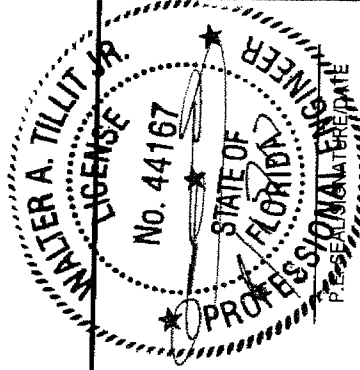
PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 19-0409-DB
 Expiration Date May 27, 2024
 By *Manuel Ruiz*
 Miami Dade Product Control



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 19-0449-08
Expiration Date 12/27/2019
By: *Manuel Perez*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1102-13
Expiration Date 05/27/2019
By: *Heather A. Tillit Jr.*
Miami-Dade Product Control

MIAMI-DADE COUNTY



TILECO INC.
TILLIT TESTING & ENGINEERING COMPANY
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FLORIDA LIC. 44167

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CORNER CONNECTION AT FRAME HEAD AND SILL

SCALE 1/2" = 1"

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LARGE MISSILE IMPACT RESISTANT

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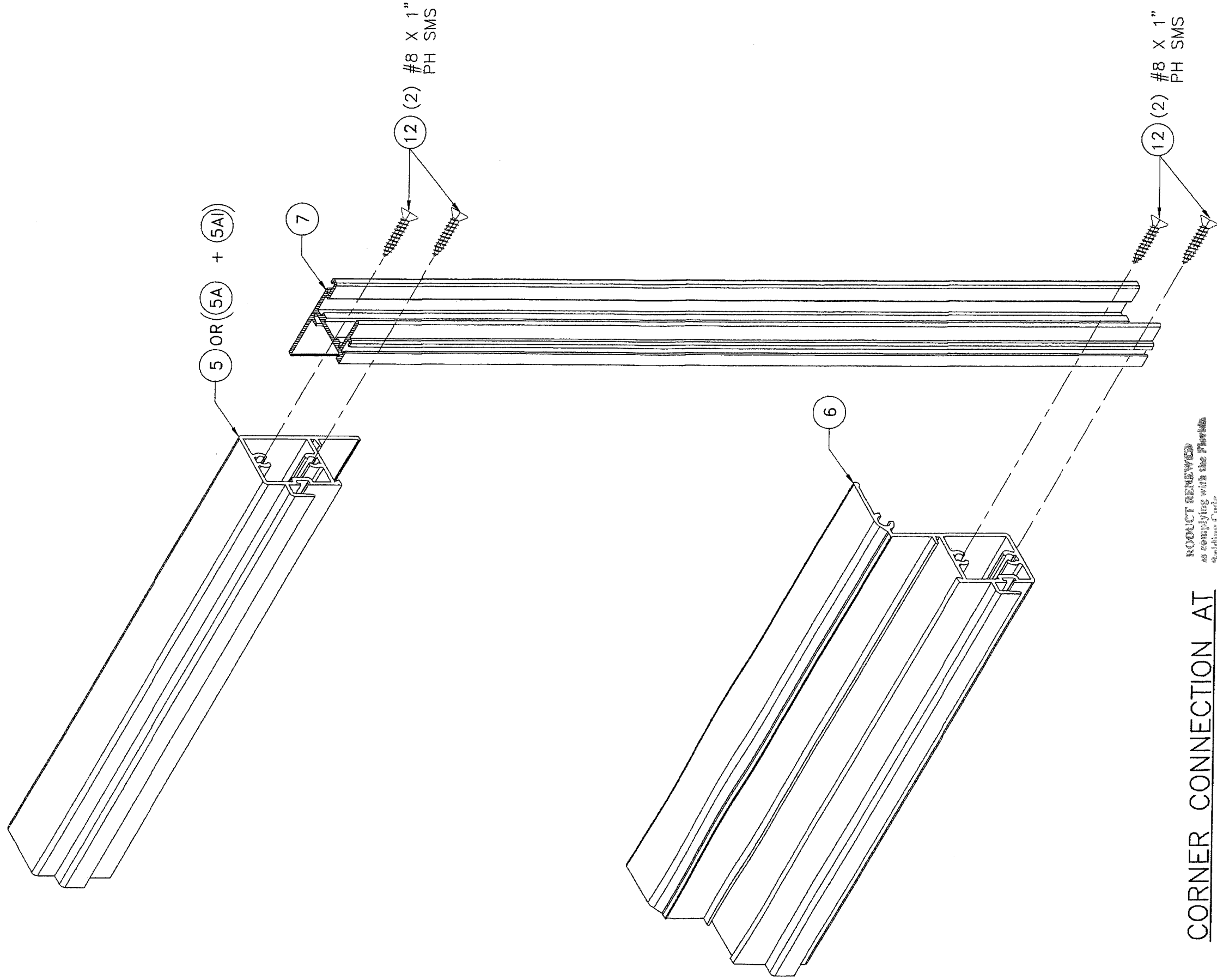
REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
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2			4		

DRAWN BY:
L.C.

08/08/17
DATE

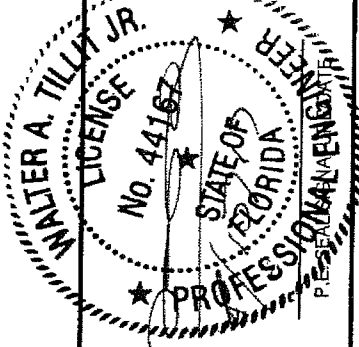
17-149
DRAWING No

SHEET 8 OF 9



CORNER CONNECTION AT
BOTTOM VENT
SCALE 3/4" = 1"

PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 19-0409-PB8
Expiration Date May 21, 2024
By *Manuel Jerez*
Miami Dade Product Control



PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 17-1103-PB13
Expiration Date 05/21/2019
By *Heather Miller*
Miami Dade Product Control

MIAMI-DADE COUNTY

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 GENERAL IMPACT GLASS & WINDOWS 290 WEST 78th ROAD HALEAH, FL 33014 PHONE: (305) 558-8103 FAX: (305) 558-6665 www.generalimpact.com				DATE 08/08/17	
				DRAWING No 17-149	
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2			4		