



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

NOTICE OF ACCEPTANCE (NOA)

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/building

Novum Structures, LLC.
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051

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 "HG01 Vertical PSG" Multiple Point Supported Glass Curtain Wall System – L.M.I.

APPROVAL DOCUMENT: Drawing No. **25-183**, titled "Novum's Point Supported Glass System: HG01 Vertical Wall System", sheets: MU100-6, MU100A-1, MU100B-1, MU100C-1, MU200-2, MU210-2, MU500-2, MU501-2, MU502-2, MU510-2, MU511-2, MU512-2 MU514-2, MU515-2, MU516-2, MU700-1, MU710-1, MU800-3, MU801-3, MU802-1, MU803-1 and MU804-1 for a total of 22 sheets, dated 03/04/10, with revision #6 dated 11/03/23, prepared by Computerized Structural Design, Inc., signed and sealed by Mahmoud Maamouri, P.E., bearing the Miami-Dade County Product Control Revision 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, 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.

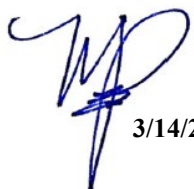
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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 **revises NOA No. 20-1116.05** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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




3/14/23

NOA No. 24-0102.03
Expiration Date: August 25, 2026
Approval Date: February 29, 2024
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED


1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 11-0412.06)
2. Drawing No. **25-183**, titled "Novum's Point Supported Glass System: HG01 Vertical Wall System", sheets: MU100-4, MU100A-1, MU100B-1, MU100C-1, MU200-2, MU210-2, MU500-2, MU501-2, MU502-2, MU510-2, MU511-2, MU512-2, MU514-2, MU515-2, MU516-2, MU700-1, MU710-1, MU800-2, MU801-2, MU802-1, MU803-1 and MU804-1 for a total of 22 sheets, dated 03/04/10, with revision #4 dated 10/21/20, prepared by Computerized Structural Design, Inc., signed and sealed by Mahmoud Maamouri, P.E.
(Submitted under NOA No. 20-1116.05)

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
along with marked-up drawings and installation diagram of a multiple point supported system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6321**, dated 01/13/11, revised, reissued, signed and sealed dated by Marlin D. Brinson, P.E.
(Submitted under NOA No. 11-0412.06)
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) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a multiple point supported system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6323**, dated 05/23/11, revised, reissued, signed and sealed by Marlin D. Brinson, P.E.
(Submitted under NOA No. 11-0412.06)
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 a multiple point supported system, prepared by Architectural Testing, Inc., Test Report No. **ATI-49758.01-120-18**, dated 07/02/04, signed and sealed by Joseph A. Reed, P.E.
(Submitted under NOA No. 11-0412.06)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 24-0102.03
Expiration Date: August 25, 2026
Approval Date: February 29, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

C. CALCULATIONS

1. Anchor calculations and structural analysis, complying with FBC 7th Edition (2020), dated 09/01/10 and revised on 10/20/20, prepared by Computerized Structural Design, Inc., signed, sealed by Mahmoud Maamouri, P.E.
(Submitted under NOA No. 20-1116.05)
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. **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.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, dated November 3, 2020, issued by Computerized Structural Design, Inc. signed and sealed by Mahmoud Maamouri, P.E.
(Submitted under NOA No. 20-1116.05)
2. Notification of Successor Engineer for manufacturer's NOA document per **Section 61G15-27.001** of the **Florida Administrative Code**, notifying original engineer that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to this NOA, dated November 3, 2020, signed and sealed by Mahmoud Maamouri, P.E.
(Submitted under NOA No. 20-1116.05)
3. Statement letter of independence and no financial interest, dated 10/23/10, signed and sealed by Ethan A. Charpentier, P.E.
(Submitted under NOA No. 11-0412.06)
4. Laboratory compliance letter for Test Report No. **FTL-6321**, issued by Fenestration Testing Laboratory, Inc., dated 01/13/11, revised, signed, sealed and dated 08/01/2011 by Marlin D. Brinson, P.E.
(Submitted under NOA No. 11-0412.06)
5. Laboratory compliance letter for Test Report No. **FTL-6323**, issued by Fenestration Testing Laboratory, Inc., dated 05/23/11, revised, signed, sealed and dated 08/01/2011 by Marlin D. Brinson, P.E.
(Submitted under NOA No. 11-0412.06)


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 24-0102.03
Expiration Date: August 25, 2026
Approval Date: February 29, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

F. STATEMENTS (CONTINUED)

6. Laboratory compliance letter for Test Report No. **ATI-49758.01-120-18**, issued by Architectural Testing, Inc., dated 07/02/04, signed and sealed by Joseph A. Reed, P.E. *(Submitted under NOA No. 11-0412.06)*
7. Evaluation Report of Architectural Testing, Inc. Test Report No. **ATI-49758.01-120-18** dated 12/20/04, signed and sealed by Keshwar P. Ramdular, P.E. *(Submitted under NOA No. 11-0412.06)*
8. Tensile Test prepared by Stork Technimet, Inc., Test Report No. **STI-0404-09609**, dated 05/11/04, signed by Anna Mayhew-Rozek. *(Submitted under NOA No. 11-0412.06)*

G. OTHERS

1. Notice of Acceptance No. **19-0110.09**, issued to Novum Structures, LLC for their Series "HG01 Vertical PSG" Multiple Point Supported Glass Wall System – L.M.I., approved on 02/28/19 and expiring on 08/25/21.

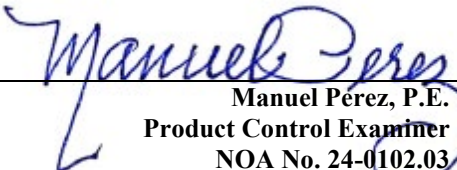
2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

2. Drawing No. **25-183**, titled "Novum's Point Supported Glass System: HG01 Vertical Wall System", sheets: MU100-6, MU100A-1, MU100B-1, MU100C-1, MU200-2, MU210-2, MU500-2, MU501-2, MU502-2, MU510-2, MU511-2, MU512-2, MU514-2, MU515-2, MU516-2, MU700-1, MU710-1, MU800-3, MU801-3, MU802-1, MU803-1 and MU804-1 for a total of 22 sheets, dated 03/04/10, with revision #6 dated 11/03/23, prepared by Computerized Structural Design, Inc., signed and sealed by Mahmoud Maamouri, P.E.

B. TESTS

1. Test reports on: 1) Safety Performance Test, (class A) per ANSI Z97.1 For G1 (10mm Clear FT + 2.28mm SG + 10mm Clear FT) glass lite, prepared by Intertek, Test Report No. **P9757.01-201-37**, dated 09/07/23, with Revision #2 dated 11-09-23, signed and sealed dated by Tanya Dolby, P.E.
2. Test reports on: 1) Safety Performance Test, (class A) per ANSI Z97.1 For G9 (10mm Clear w/Frit on Surface #2 (Line, 50% Coverage) FT + 2.28mm SG + 10mm Clear FT) glass lite, prepared by Intertek, Test Report No. **P9757.02-201-37**, dated 09/07/23, with Revision #2 dated 11-09-23, signed and sealed dated by Tanya Dolby, P.E.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 24-0102.03
Expiration Date: August 25, 2026
Approval Date: February 29, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED (CONTINUED)

B. TESTS (CONTINUED)

3. Test reports on: 1) Safety Performance Test, (class A) per ANSI Z97.1
For G5 (10mm Clear w/Frit on Surface #2 (Dot, 50% Coverage) FT + 2.28mm SG + 10mm Clear FT) glass lite, prepared by Intertek, Test Report No. **P9757.03-201-37**, dated 09/07/23, with Revision #2 dated 11-09-23, signed and sealed dated by Tanya Dolby, P.E.

C. CALCULATIONS

1. Anchor calculations and structural analysis, complying with FBC 8th Edition (2023), dated 09/01/10, with revision 3 dated 11/03/23, prepared by Computerized Structural Design, Inc., signed, sealed by Mahmoud Maamouri, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS


1. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their “SentryGlas® (Clear and White) Glass Interlayers” dated 08/31/23, expiring on 07/04/28.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)** and of no financial interest, dated December 21, 2023, issued by Computerized Structural Design, Inc. signed and sealed by Mahmoud Maamouri, P.E.
2. Proposal No. **22-0677R2** issued by the Product Control Section, dated January 26, 2022, signed by Manuel Perez, P.E.

G. OTHERS

1. Notice of Acceptance No. **20-1116.05**, issued to Novum Structures, LLC for their Series “HG01 Vertical PSG” Multiple Point Supported Glass Curtain Wall System – L.M.I., approved on 03/11/21 and expiring on 08/25/26.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 24-0102.03
Expiration Date: August 25, 2026
Approval Date: February 29, 2024

NOVUM'S POINT SUPPORTED GLASS SYSTEM: HG01 VERTICAL WALL SYSTEM

System Description

The Novum Hurricane PSG vertical system that has been tested for Miami - DadeNOA consists simply of glass, rotules, and silicone joints. A perimeter channel is also a tested part of the system.

The glass is fully tempered and laminated. Both pieces of glass are 0.375" thick. The laminate is 0.090" Kuraray Sentry Glass Interlayer by Kuraray America, Inc. per NOA No. 23-0717.30. Therefore the overall thickness is 0.84".

The RB22-16 rotules are ss fixtures that consist of a rotating head and 16 mm diameter threaded rod that allow it to be mounted through a hole in the glass and in turn fastened to a support structure using the threaded rod. The silicone joints consist of an extruded silicone profile pushed into the 0.75" (20 mm) wide space between adjoining glass panels from the inside and acts as a backer. This profile fills about 60% of the depth of the joint. The outer 40% of the space is filled with Dow Corning 795 silicone sealant which produces the weather tight seal.

The steel glazing arms and support HSS framework used in the test is not part of the "system". On future projects using HG01, the glazing arms and steel support framework will be designed using conventional analysis methods and appropriate material design and building codes. It will not be subject to NOA testing or approval.



SYMBOLS

SHEET NUMBER WHERE REFERENCED

DETAIL NUMBER

SHEET NUMBER WHERE DRAWN

C600.X FIELD HARDWARE MARK

ABBREVIATIONS

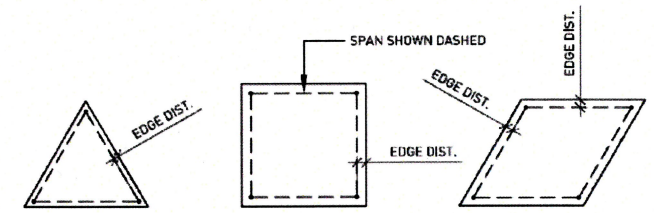
NS = NEAR SIDE
FS = FAR SIDE
MK = MARK NUMBER
TYP. = TYPICAL
SIM. = SIMILAR
OPP. = OPPOSITE HAND

SYM. = SYMMETRICAL
U.N.O. = UNLESS NOTED OTHERWISE
C.L. = CENTER LINE
RHS = RIGHT HAND SIDE
LHS = LEFT HAND SIDE

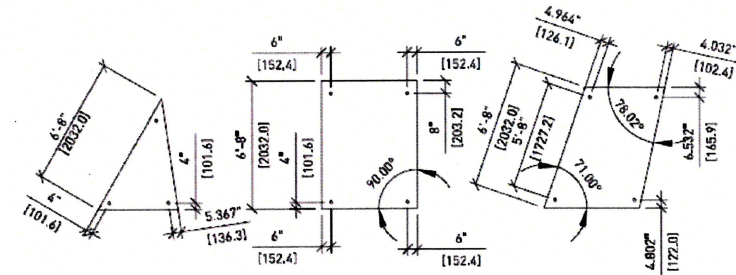
Limitations For Use

- Maximum imposed design load of 133 psf when system is used as a curtain wall/storefront (< 15° from vertical). This is based on a factor of safety of 1.5 against breakage at 200 psf.

Dead load of glass is not considered part of an imposed load (i.e.; glass can allowably handle 133 psf normal to its surface plus the weight of the glass).
- Maximum panel side length:
a) Square = 80" or 6'-8"
b) Rectangle = 80" or 6'-8"
c) Trapezoid = 80" or 6'-8"
d) Triangle = 80" or 6'-8"
- Maximum span between adjacent rotules as defined in diagram below = 68" or 5'-8".



- Edge distance from center of rotule to nearest glass edge must be between 3.5" and 6".
- Trapezoids must have a minimum interior angle of 60° or greater. Triangles have no angular requirements.
- All rectangles, triangles and trapezoids meeting the above limitations are acceptable. Below are examples of other possibilities. Many other possibilities are not shown.



- A continuous edge channel may be used for support along one edge of any square or rectangle panel with rotules at the remaining 2 corners.
- Large missile testing has been done and therefore the system may be used for enclosures and there is no restriction as to what elevation from the ground.
- The Novum Hurricane PSG system that pertaining to this NOA consists simply of the glass, rotules, and silicone joints. A perimeter channel is also a tested part of the system.
- The steel support arms and any support framework is not part of the "system". On future projects using HG01, the support arms and steel support framework will be designed using conventional analysis methods and appropriate material design and building codes. It will not be subject to NOA testing or approval.
- Support framing must not deflect more than L/180.
- This system can only be used for Risk Category I, II and III plus Category IV above 30'-0". It is not allowed to be used for Risk Category IV below 30'-0".
- The design of this system shall consider tornado loads when applicable per Florida Building Code, Section 1609.5

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
MU100 MU100A MU100B MU100C	GENERAL NOTES PART: ROTULE INFORMATION PART: GASKET DETAIL: NON-CHAMFERED GLASS JOINT PART: GASKET DETAIL: CHAMFERED GLASS JOINT
MU200 MU500 MU501 MU502 MU700	MOCK-UP: MAIN PLAN AND ELEVATION VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: GLASS JOINT DETAIL VIEWS MOCK-UP: GLASS LAYOUT & DIMENSIONS
MU210 MU510 MU511 MU512 MU513 MU514 MU515 MU516 MU710	MOCK-UP: MAIN PLAN AND ELEVATION VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: SECTION & DETAIL VIEWS DRAWING ELIMINATED FROM SET MOCK-UP: GLASS JOINT DETAIL VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: SECTION & DETAIL VIEWS MOCK-UP: GLASS LAYOUT & DIMENSIONS
MU800 MU801 MU802 MU803 MU804	GLASS MAKE- UP SHEET (NON ART GLASS) GLASS MAKE- UP SHEET (ART GLASS) GLASS FABRICATION DRAWING (NON ART GLASS) GLASS FABRICATION DRAWING (ART GLASS) BILL OF MATERIALS

DESIGN PARAMETERS

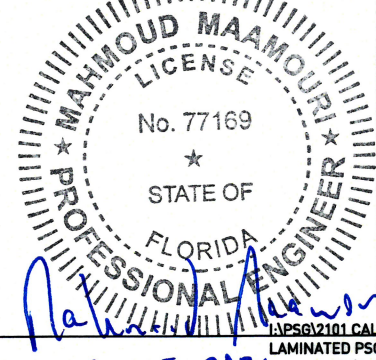
FLORIDA BUILDING CODE 2023
TEST REPORTS FROM FENESTRATION TESTING LABORATORY, INC.:
1) FLAT MOCK-UP: REPORT DATE = 1/13/2010
2) ZIG ZAG MOCK-UP: REPORT DATE = 5/23/2011

-DESIGN PRESSURE: +133 PSF
-DESIGN SUCTION: -133 PSF
TAS-201 - IMPACT TEST PROCEDURES
TAS-202 - AIR LEAKAGE, WATER PENETRATION & STRUCTURAL PERFORMANCE TEST PROCEDURES
TAS-203 - CYCLING TEST PROCEDURES
ASTM STANDARDS
E283 - AIR INFILTRATION TEST PROCEDURE
E330 - STRUCTURAL PERFORMANCE TEST PROCEDURES
E331 - WATER PENETRATION; STATIC & DYNAMIC, TEST PROCEDURES
E1886 - MISSILE IMPACT & CYCLIC PRESSURE TESTING - LEVEL A & LEVEL D, TEST PROCEDURE
E1996 - HURRICANE DEBRIS IMPACT TESTING PROCEDURES

GLASS MAKE-UP #1
3/8", FULLY TEMPERED, CLEAR, OPTIONAL DOT FRIT OR LINE FRIT ON SURFACE #2, UP TO MAXIMUM 50% COVERAGE.
0.090" CLEAR OR WHITE Kuraray SentryGlas Interlayer by Kuraray America, Inc.
per NOA No. 23-0717.30
3/8", FULLY TEMPERED, CLEAR
GLASS MAKE-UP #2
3/8", FULLY TEMPERED, CLEAR
0.090" CLEAR OR WHITE Kuraray SentryGlas Interlayer by Kuraray America, Inc.
per NOA No. 23-0717.30
3/8", FULLY TEMPERED, CLEAR
0.060" CLEAR OR WHITE Kuraray SentryGlas Interlayer by Kuraray America, Inc.
per NOA No. 23-0717.30
1/2", FULLY TEMPERED, CLEAR

STAINLESS STEEL
ROTULE: 316SS

SEALANTS
FRAME ASSEMBLY SEALS- MEDIUM CONSTRUCTION SILICONE SEALANT- IE: DOW CORNING #795
EXPOSED WEATHER SEALS- MEDIUM MODULUS CONSTRUCTION SILICONE SEALANT- IE: DOW CORNING #795
SILICONE COLOR- BLACK OR OTHER DOW CORNING STANDARD COLORS)



PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 24-0102.03
Expiration Date: 08/25/2026
By: Manuel Fernandez
Miami-Dade Product Control

COMPUTERIZED STRUCTURAL DESIGN, INC.
8989 North Fort Washington Road
Milwaukee, WI 53217
(414) 351-5586
EB-0001982
MAHMOUD MAAMOURI
PE # 77169

ENGINEER STAMP

APPROVAL STAMP

03NOV23	FAR	FP
19FEB21	JTG	SWK
21OCT20	ZJM	SWK
12DEC18	SWK	SWK
10/08/15	MM	SWK
22JUL11	BTH	SWK

Novum Structures LLC
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T 262.255.5541
www.novumstructures.com
info@novumstructures.com

NOVUM

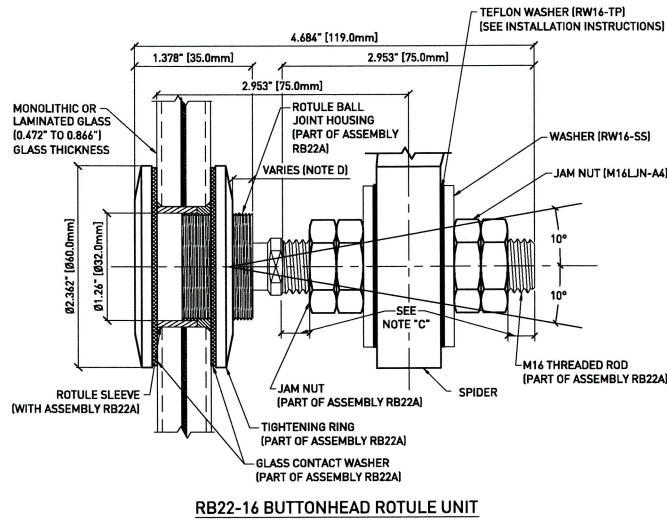
PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

MOCK-UP #1 & #2
COVER SHEET

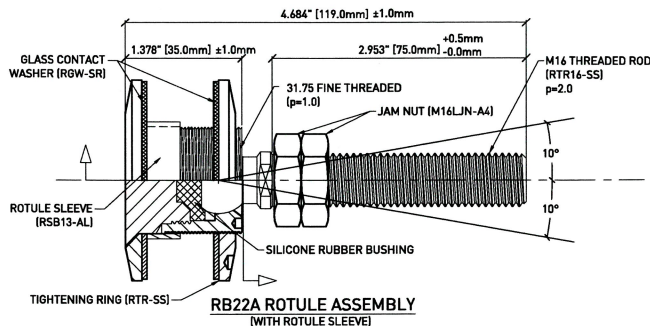
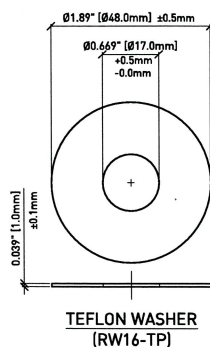
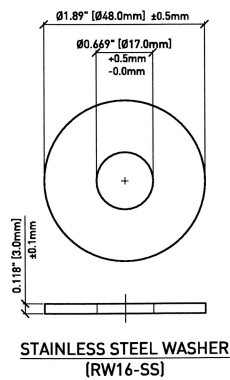
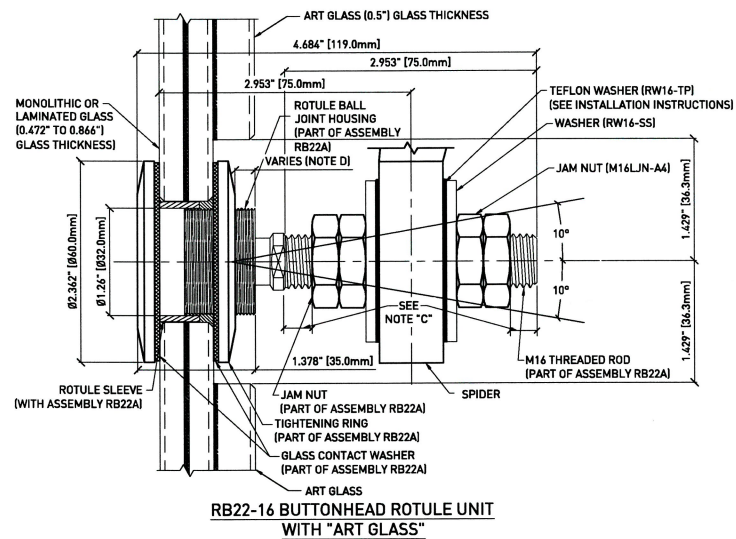
CHECKED BY: SWK	DATE: 04MAR10
SCALE: NONE	PROJECT MANAGER: GB

PROJECT NUMBER:
25-183

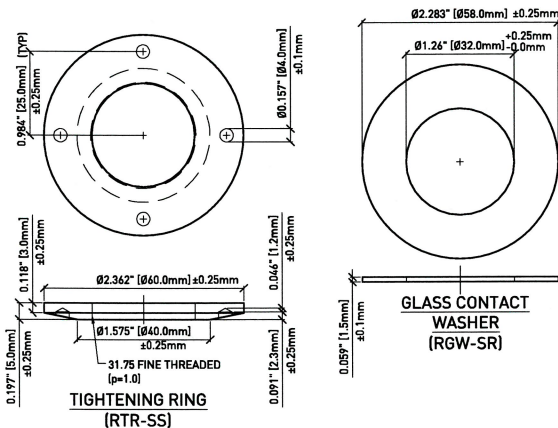
SHEET NUMBER:
MU100-6



NOTES:
A) DIMENSIONS IN BRACKETS ARE IN MM, WHICH ARE THE CONTROLLING DIMENSIONS.
B) SEE PART DRAWINGS FOR TOLERANCES.
C) EXPOSED THREAD DISTANCE IS TO BE NEARLY EQUAL ON BOTH SIDES OF SPIDER.
D) MAX 10.0mm (12mm GLASS)
MIN 0.0mm (22mm GLASS)



ASSEMBLY NOTES:
1) RTR-SS IS TO BE PLACED NEAR THE BOTTOM OF THE HEAD, AS SHOWN.
2) JAM NUTS ARE TO BE PLACED NEAR THE TOP OF THE ROD, AS SHOWN.



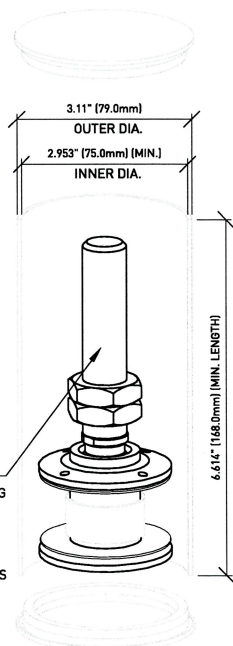
PACKAGING DIAGRAM

NOT TO SCALE

PACKED IN A PLASTIC BAG WITHIN THE TUBE:
2 M16 LOW HEXAGON JAM NUTS
2 TEFLON WASHERS FOR M16 ROD
2 STAINLESS STEEL WASHERS FOR M16 ROD

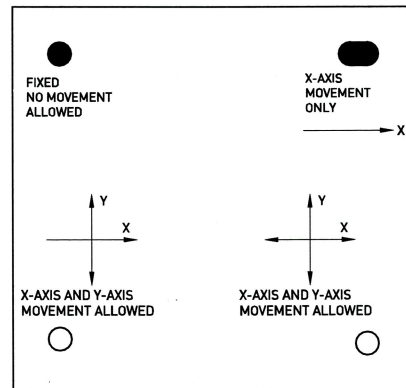


1 ROTULE ASSEMBLY WITH:
1 ROTULE BALL JOINT HOUSING
1 M16x75 THREADED ROD
2 GLASS CONTACT WASHER
1 GLASS TIGHTENING RING
1 ROTULE SLEEVE
2 M16 LOW HEXAGON JAM NUTS

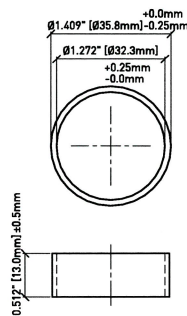


GLASS INSTALLER NOTE:

EACH PANEL OF GLASS IS DESIGNED TO BE ABLE TO MOVE AS SHOWN BELOW. ON THE ROTULES, THE INNER JAM NUTS SHOULD ONLY BE HAND TIGHTENED AGAINST THE WASHERS (U.N.O.) TO MAKE SURE THE INNER JAM NUTS WILL NOT BACK OFF. FULLY TIGHTEN OUTER NUTS AGAINST THEM. THIS WILL ALLOW THE ROD TO MOVE AS DESIGNED.



VIEW OF ONE GLASS PANE
FROM OUTSIDE/ABOVE LOOKING IN



NOTE: USE SLEEVE RS89-AL (0.354\"/>

PSG M16 BUTTONHEAD ROTULE (RB22-16) INSTALLATION NOTES

INSPECTION OF THE ROTULE ON SITE:
BEFORE THE ROTULE UNITS (RB22-16) ARE INSTALLED INTO THE GLASS PANELS, EACH INDIVIDUAL ROTULE ASSEMBLY AND ITS COMPONENTS MUST BE INSPECTED FOR SCRATCHES, UNIMPEDED MOVEMENT, DAMAGE TO THE THREAD OR TO THE WELDING SEAM, DAMAGE TO THE WASHERS AND THE PERIMETER EDGES OF THE RINGS, OR ANY OTHER DEFECT. DO NOT USE DAMAGED ROTULES.

THE SIZE OF ALL GLASS HOLES MUST BE CHECKED. PLACE A ROTULE SLEEVE INTO EACH HOLE (UNLESS INSTALLED BY GLASS MANUFACTURER) AND REMOVE ANY EXCESS INTERLAYER THAT MAY BE IMPEDING A PROPER FIT.

ONCE INSPECTED, THOROUGHLY CLEAN EACH PART OF THE ROTULE.

1) REMOVE THE TIGHTENING RING (RTR-SS), BOTH GLASS CONTACT WASHERS (RGW-SR), AND THE ROTULE SLEEVE (RSB13-AL) FROM THE ROTULE ASSEMBLY.

2) LAY A SMALL BEAD OF CLEAR SILICONE AROUND THE OUTER GLASS LITE (SMALLER HOLE). INSTALL THE ROTULE SLEEVE IN THE GLASS HOLE, ENSURING THAT THE OUTER EDGE IS FLUSH WITH THE EXTERIOR FACE OF GLASS.

NOTE: FOR 0.472\"/>

3) PLACE A BEAD OF CLEAR SILICONE ON THE UNDERSIDE OF THE BUTTONHEAD CAP AROUND THE EDGE OF THE BALL JOINT HOUSING. PUT ONE GLASS CONTACT WASHER AGAINST THE UNDERSIDE OF THE BUTTONHEAD CAP. PLACE ANOTHER BEAD OF CLEAR SILICONE ON THE UNDERSIDE OF THE GLASS CONTACT WASHER AROUND THE EDGE OF THE BALL JOINT HOUSING. INSERT THE ROTULE INTO THE GLASS.

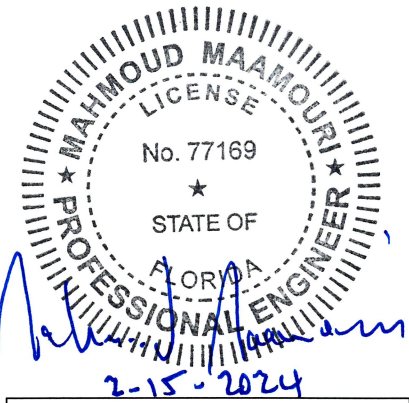
4) ON THE OPPOSITE SIDE OF THE GLASS, FILL IN THE VOID BETWEEN THE GLASS AND THE ROTULE HOUSING WITH CLEAR SILICONE, COMING UP JUST ABOVE FLUSH.

5) PLACE THE SECOND GLASS CONTACT WASHER THROUGH THE ROD AGAINST THE GLASS AND TWIST THE TIGHTENING RING AGAINST THE WASHER SNUG TIGHT. CLEAN OFF ANY EXCESS SILICONE ON EITHER SIDE OF THE GLASS. LIFT THE GLASS PANEL, CENTERING THE THREADED RODS OVER THE SPIDER HOLES. PLACE ONE STAINLESS STEEL WASHER (RW16-SS) AND ONE TEFLON WASHER (RW16-TP) ON EACH ROD, THEN SLIDE THE RODS THROUGH THE SPIDER HOLES. (OMIT THE TEFLON WASHER AT ALL FIXED-HOLE CONNECTIONS.)

6) POSITION THE GLASS IN THE FINAL POSITION NORMAL TO THE SPIDER; TIGHTEN THE TWO M16 LOW HEXAGON JAM NUTS (M16LJN-A4) THAT ARE PART OF THE ROTULE ASSEMBLY (RB22A) TO SECURE THE GLASS POSITION. THE SPIDER SHOULD BE POSITIONED NEAR THE CENTER OF THE ROTULE THREADED ROD, UNLESS NOTED OTHERWISE BY THE DESIGN ENGINEER.

7) PLACE ONE TEFLON WASHER (RW16-TP) AND ONE STAINLESS STEEL WASHER (RW16-SS) ON THE THREADED ROD. (OMIT TEFLON WASHER AT ALL FIXED-HOLE CONNECTIONS.) SPIN ON TWO M16 LOW HEXAGON JAM NUTS (M16LJN-A4). HAND-TIGHTEN ALL NUTS TO HOLD THIS GLASS POSITION.

NOTE: AT A FIXED-HOLE CONNECTION, FULLY TIGHTEN THE NUTS AGAINST THE SPIDER. TO PREVENT THE ROTULE FROM SPINNING (AND THE SEALANT FROM FAILING), CLAMP THE FLATS OF THE THREADED ROD BEFORE TIGHTENING.



PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **24-0102.03**
Expiration Date: **08/25/2026**
By: *Manuel Perez*
Miami-Dade Product Control

COMPUTERIZED STRUCTURAL DESIGN, INC.
8989 North Port Washington Road
Milwaukee, WI 53217
EB-0001982
MAHMOUD MAAMOURI
PE # 77169

ENGINEER STAMP:

APPROVAL STAMP:

NOVUM STAMP:

22JUL11 BTH SWK
REVISED PER COMMENTS BY BCCO
REV.NO. DATE DWS.BY CHK.BY

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NOVUM

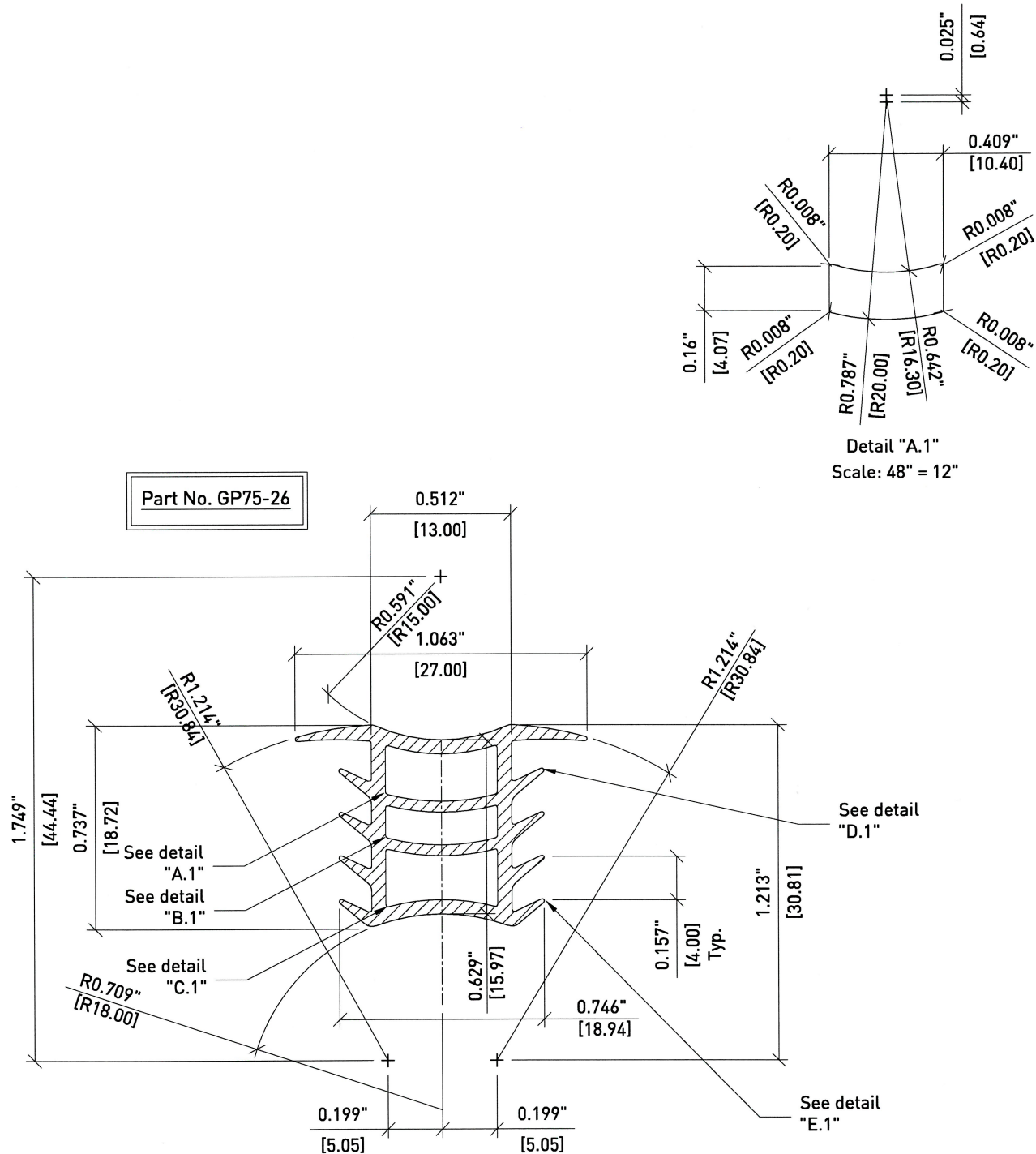
PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
RB22-16 FABRICATION
DRAWING

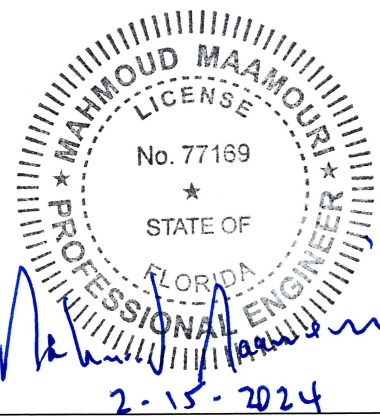
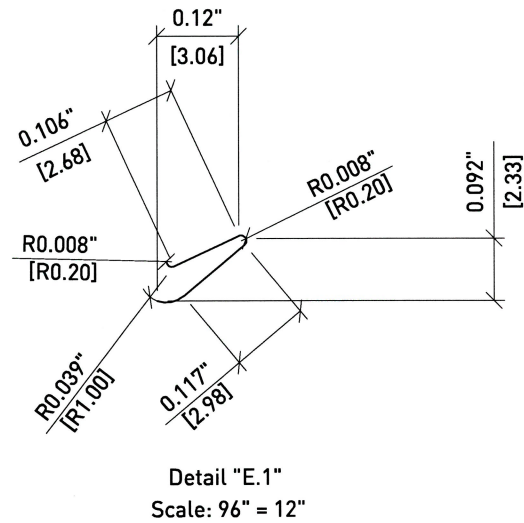
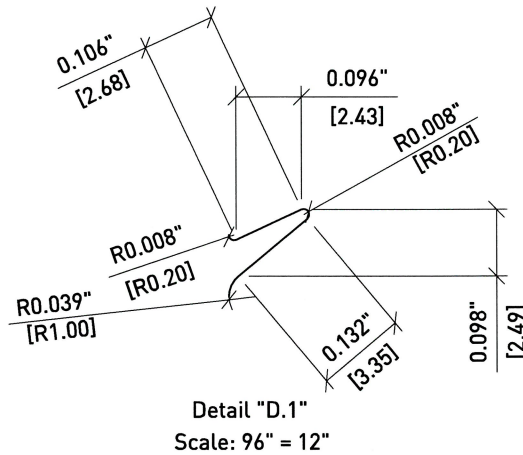
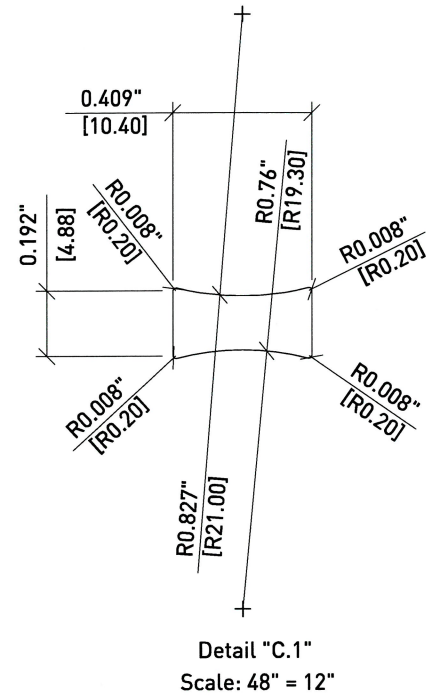
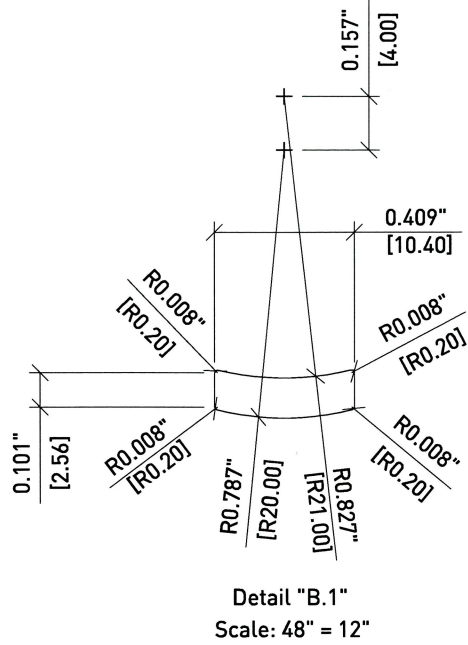
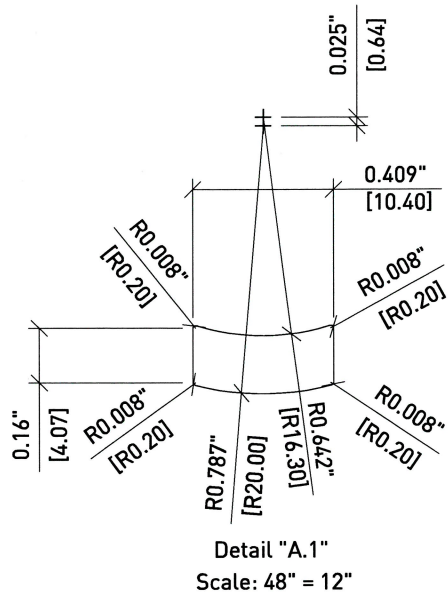
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CHECKED BY: SWK APPROVED BY: SWK
SCALE: N.T.S. PROJECT MANAGER: GB

PROJECT NUMBER:
25-183

SHEET NUMBER:
MU100A-1



01
M100B M100B
Detail: silicone extrusion gasket
Durometer = 70 +/-5 Shore A
Scale: 48" = 12"



PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **24-0102.03**
Expiration Date: **08/25/2026**
By: *Manuel Perez*
Miami-Dade Product Control

COMPUTERIZED STRUCTURAL DESIGN, INC.
8989 North Port Washington Road
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(414) 351-5588
EB-0001882
MAHMOUD MAAMOURI
PE # 77169

APPROVAL STAMP:

NOVUM STAMP:

23JUL11 BTH SWK
REVISED PER COMMENTS BY BCCO

REV. NO. DATE DWG. BY CHK. BY

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NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

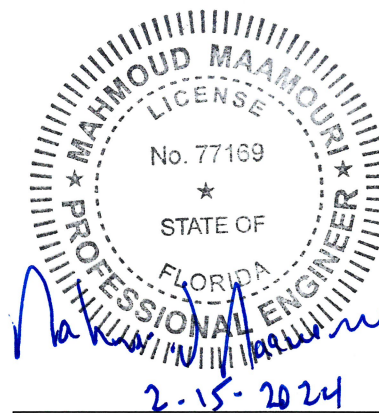
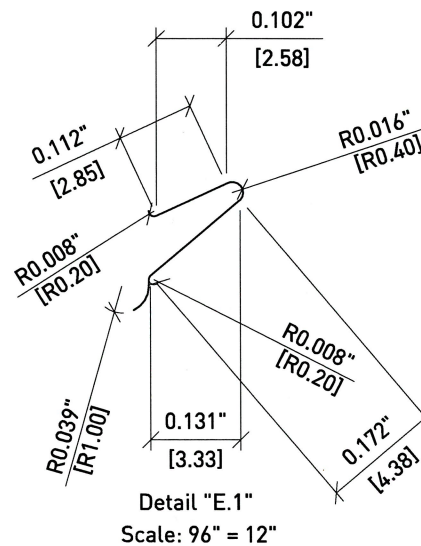
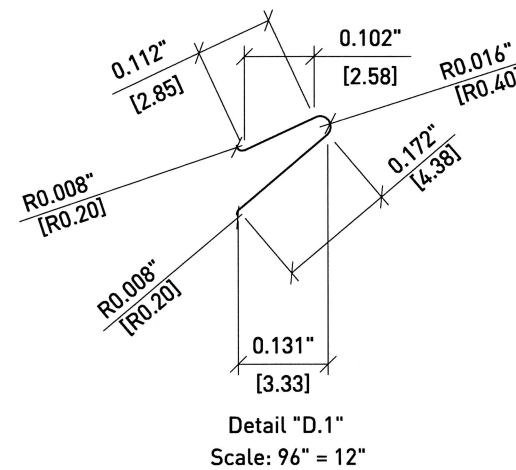
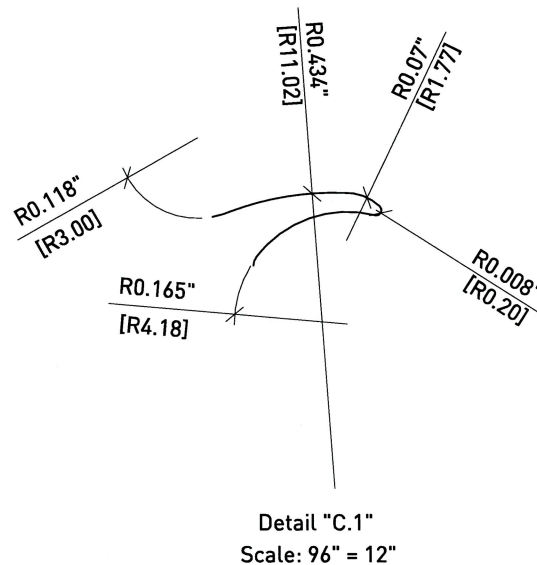
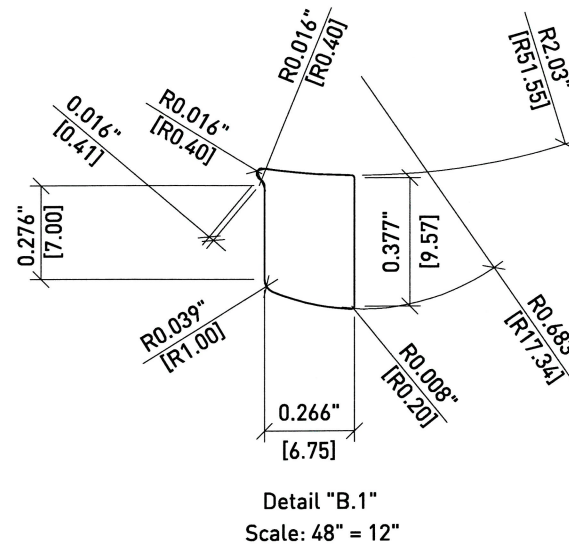
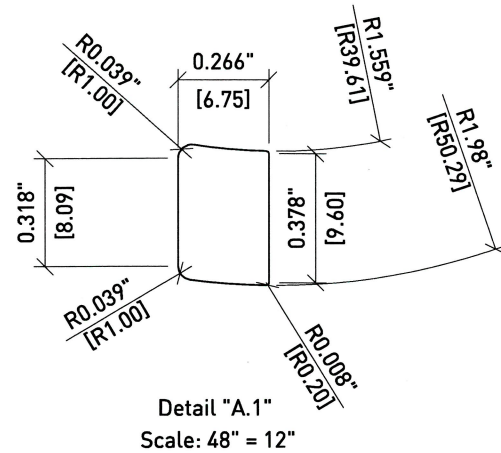
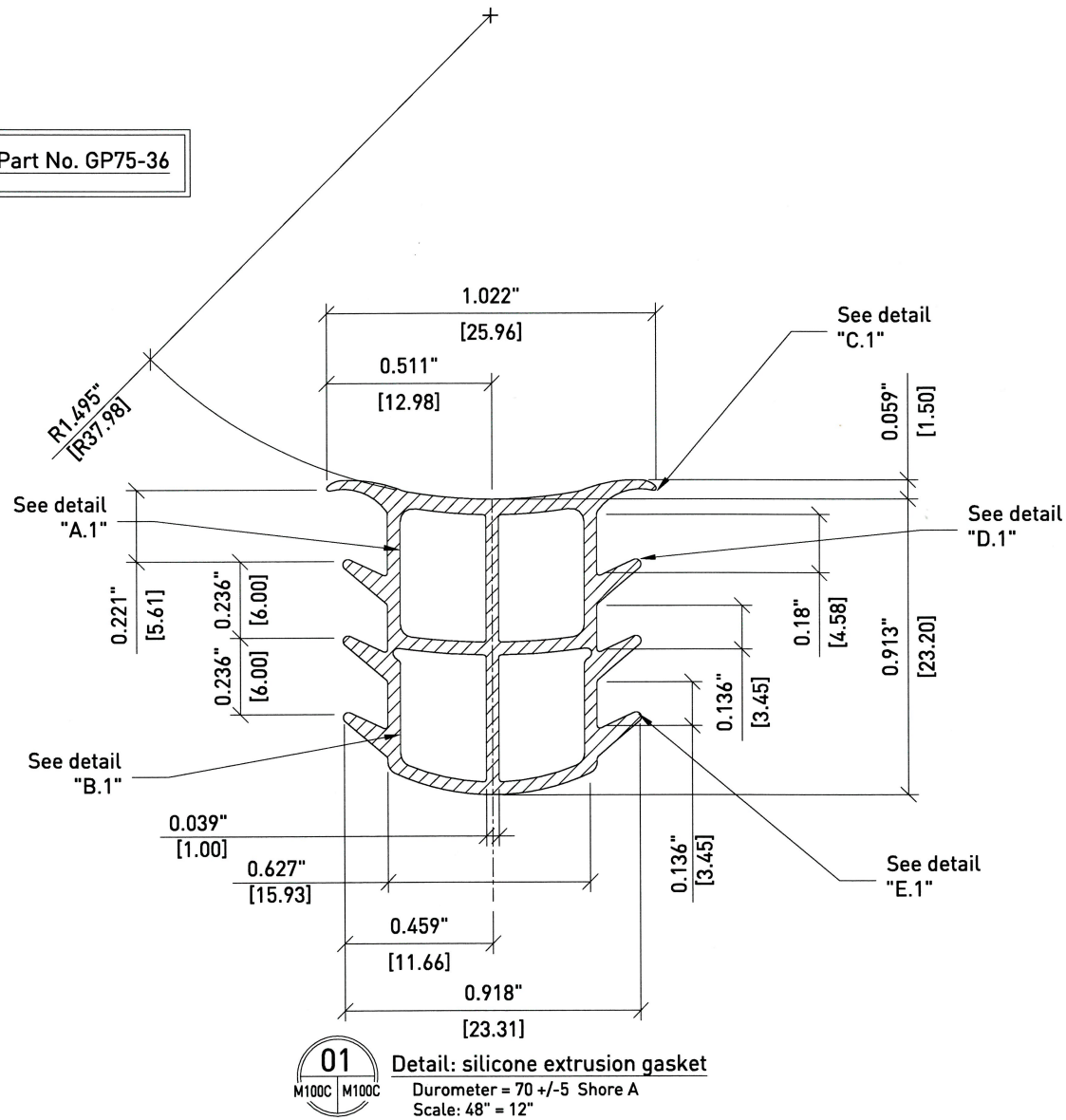
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MOCK-UP #1 & #2
SILICONE EXTRUSION
DETAIL

DRAWN BY: BTH DATE: 04MAR10
CHECKED BY: SWK APPROVED BY: SWK
SCALE: 48"=12" PROJECT MANAGER: GB

PROJECT NUMBER:
25-183

SHEET NUMBER:
MU100B-1

Part No. GP75-36



PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **24-0102.03**
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By: *Manuel Perez*
Miami-Dade Product Control

COMPUTERIZED STRUCTURAL DESIGN, INC.
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MAHMOUD MAAMOURI
PE # 77169

APPROVAL STAMP:

NOVUM STAMP:

23JUL11 BTH SWK
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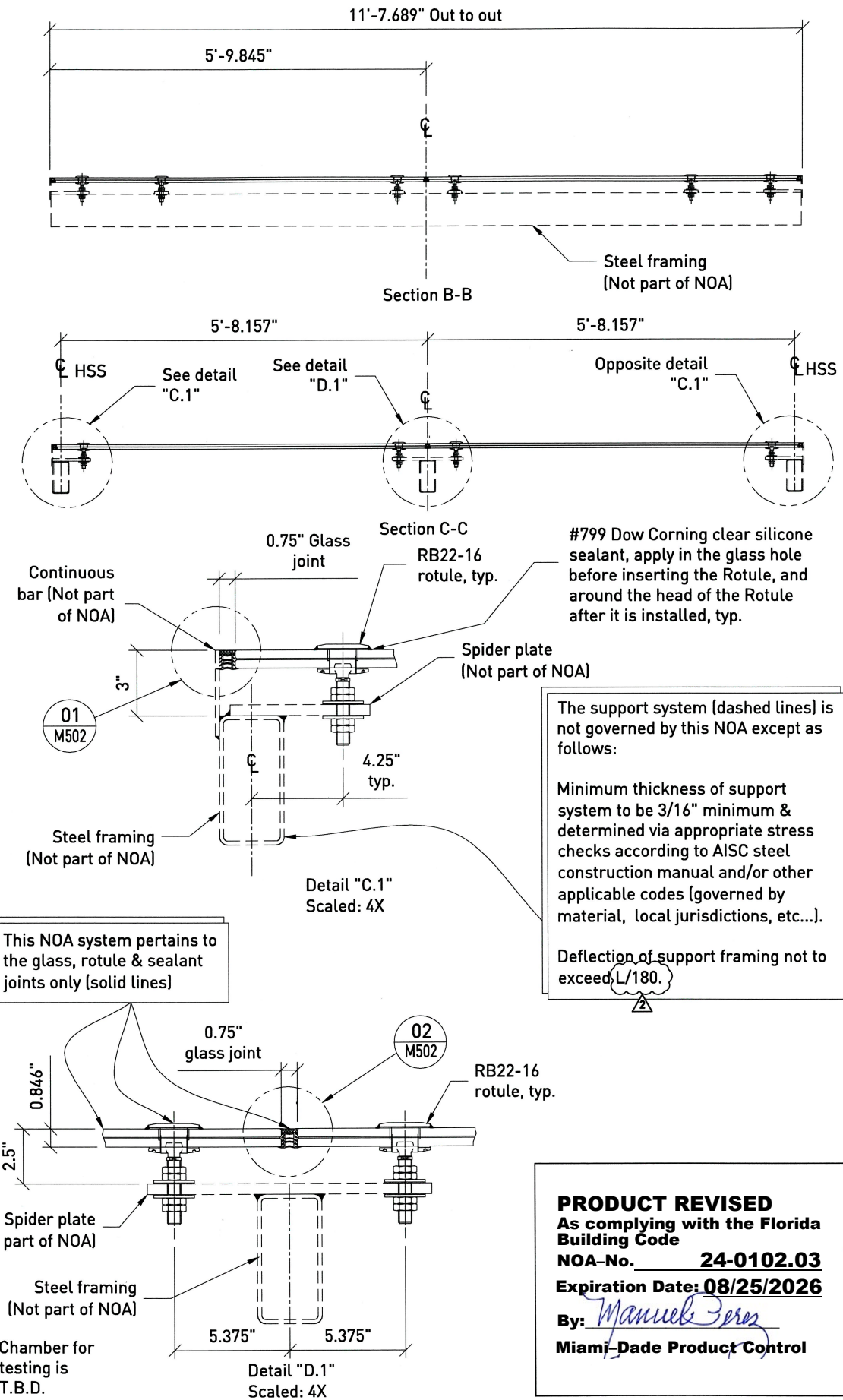
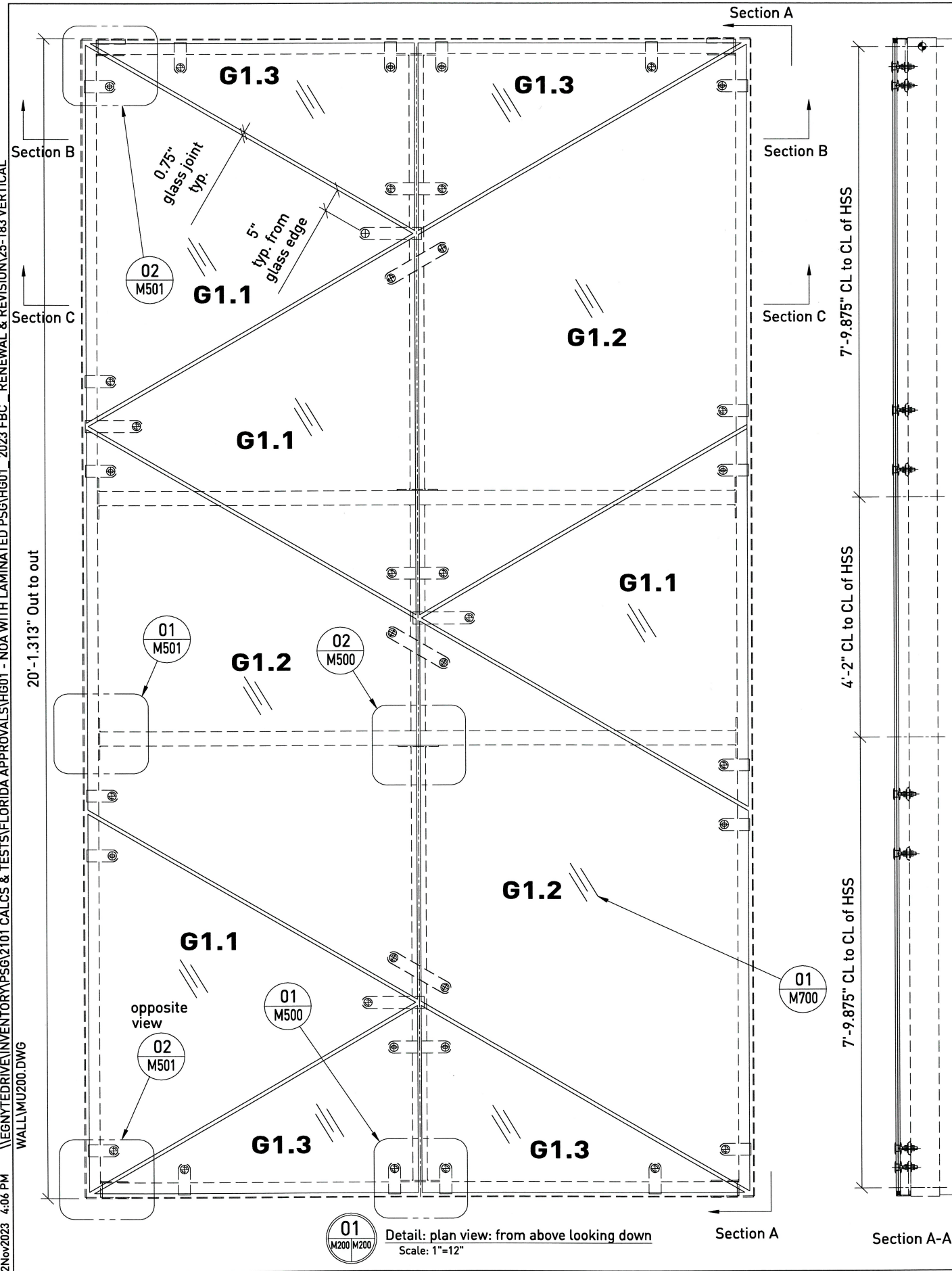
PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #1 & #2
SILICONE EXTRUSION
DETAIL @ CHAMFERED JOINT

DRAWN BY: BTH DATE: 04MAR10
CHECKED BY: SWK APPROVED BY: SWK
SCALE: 48"=12" PROJECT MANAGER: GB

PROJECT NUMBER:
25-183

SHEET NUMBER:
MU100C-1



PRODUCT REVISED
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Miami-Dade Product Control

MAHMOUD MAAMOURI
LICENSE
No. 77169
STATE OF FLORIDA
PROFESSIONAL ENGINEER
COMPUTERIZED STRUCTURAL DESIGN, INC.
8989 North Port Washington Road
Milwaukee, WI 53227
(414) 351-5588
EB-0001882
MAHMOUD MAAMOURI
P.E. # 77169
2-15-2024

APPROVAL STAMP:

NOVUM STAMP:

21OCT20	ZJM	SWK
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23JUL11	BTH	SWK
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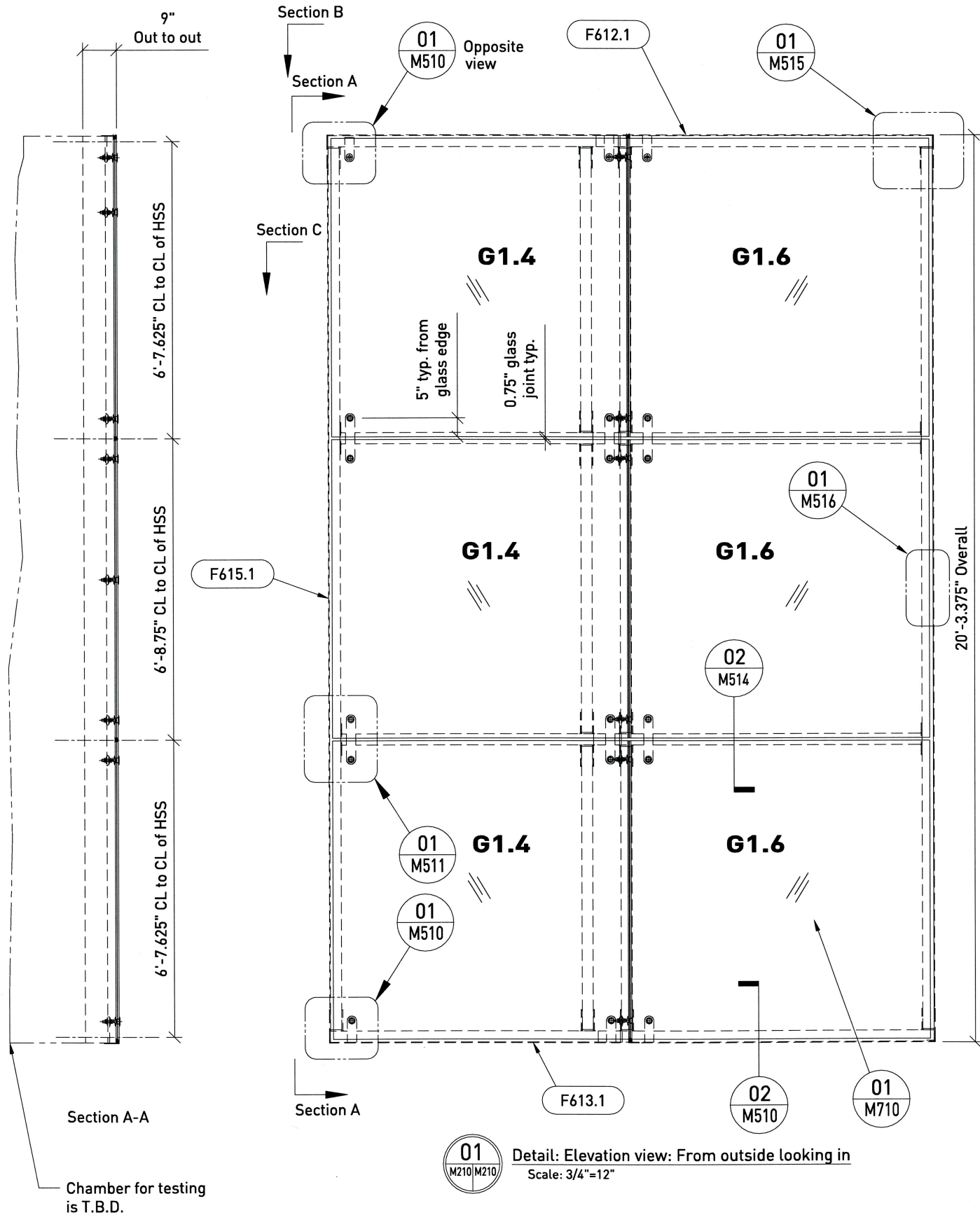
Novum Structures LLC
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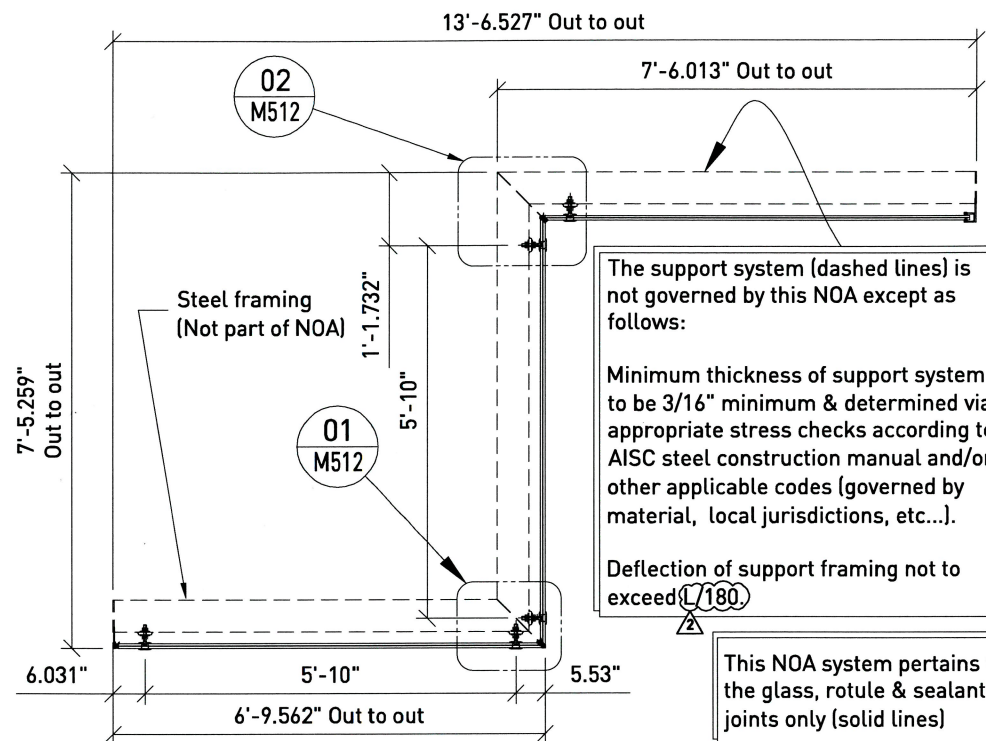
PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
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PLAN & ELEVATION VIEWS

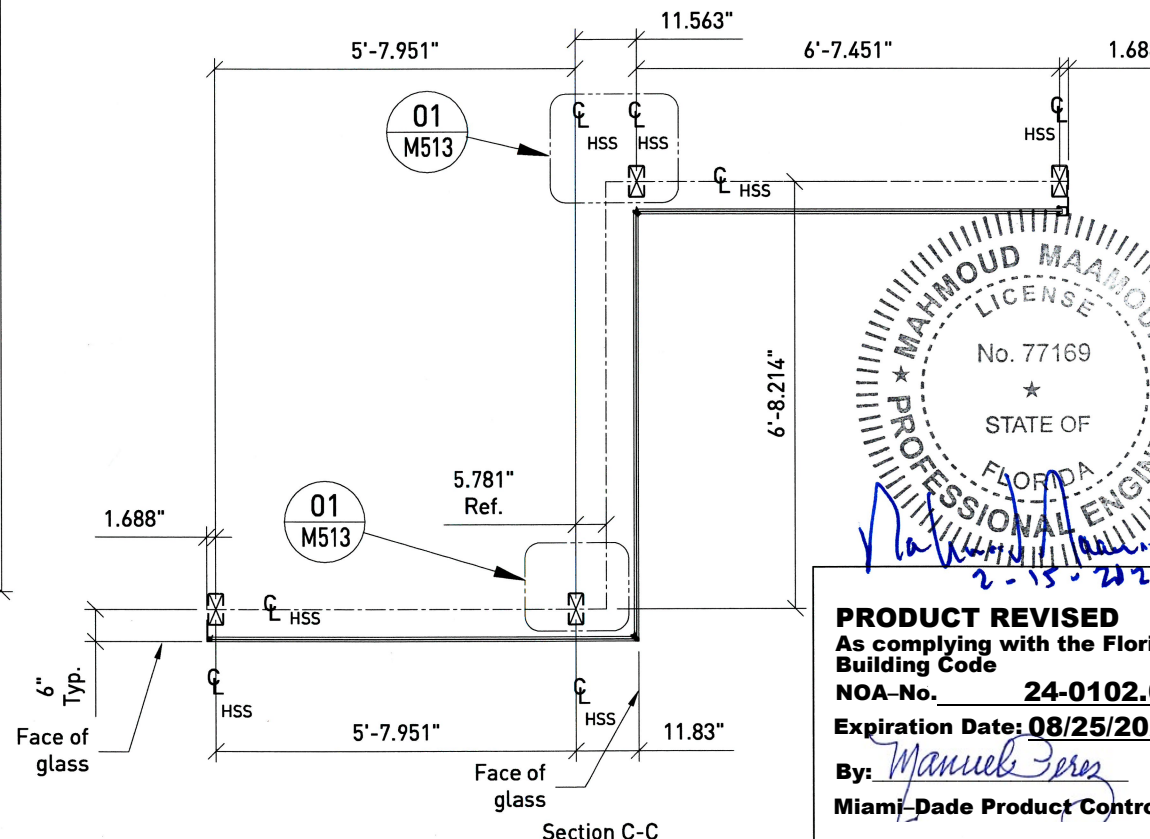
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SCALE:	1"=12"	PROJECT MANAGER:	GB
PROJECT NUMBER:	25-183		
SHEET NUMBER:	MU200-2		



Section C



Section B-B



PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **24-0102.03**
Expiration Date: **08/25/2026**
By: *Manuel Perez*
Miami-Dade Product Control

MAHMOUD MAAMOURI
LICENSE
No. 77169
STATE OF FLORIDA
PROFESSIONAL ENGINEER

2-15-2024

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MAHMOUD MAAMOURI
P.E. # 77169

APPROVAL STAMP:

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21OCT20	ZJM	SWK
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23JUL11	BTH	SWK
REVISED PER COMMENTS BY BCCO		
REV.NO.	DATE	DWG.BY
CHK.BY		

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NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

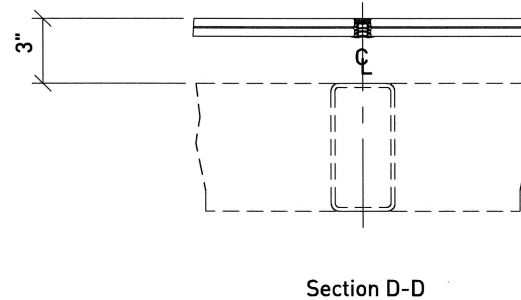
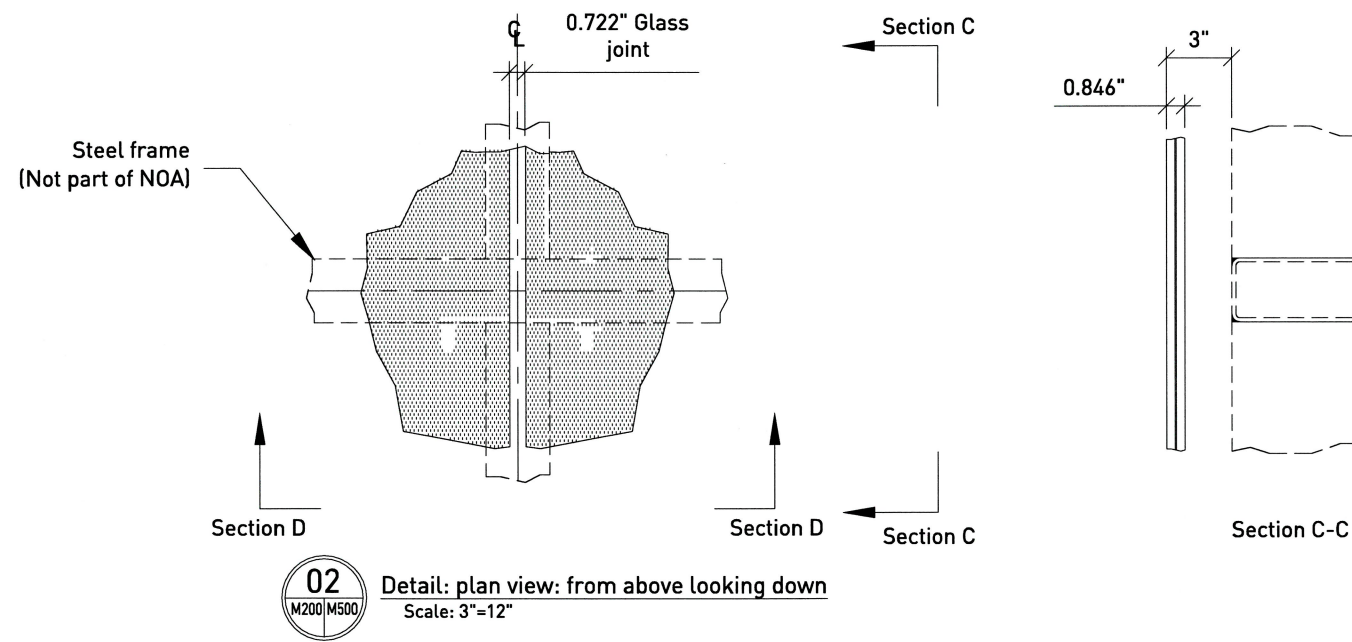
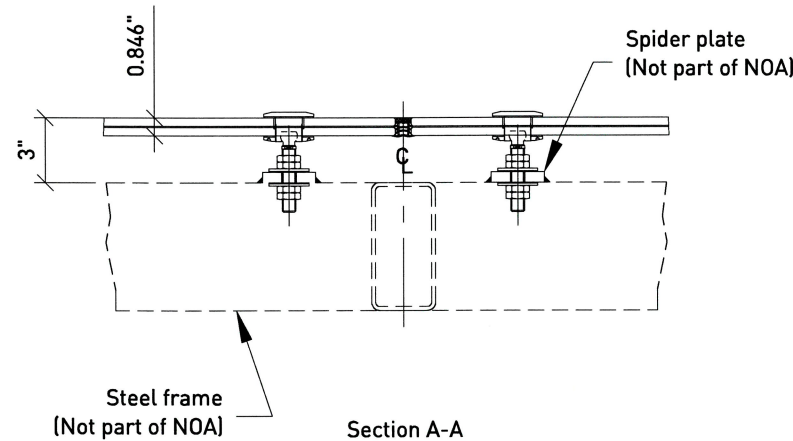
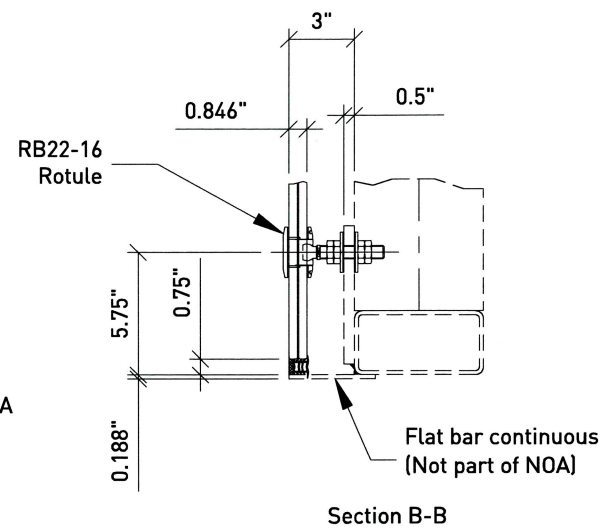
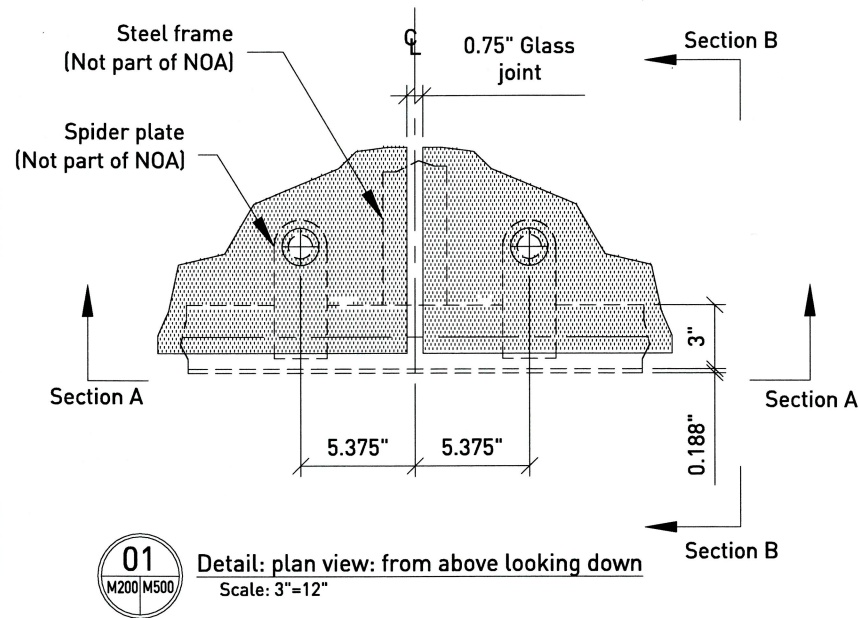
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MOCK-UP #2
PLAN AND ELEVATION VIEWS

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CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	3/4"=12"	PROJECT MANAGER:	GB

PROJECT NUMBER:
25-183

SHEET NUMBER:
MU210-2

2Nov2023 4:10 PM \\EGNYTEDRIVE\INVENTORY\PSG\2101 CALCS & TESTS\FLORIDA APPROVAL\SHG01 - NOA WITH LAMINATED PSG\HG01_2023 FBC_RENEWAL & REVISION\25-183 VERTICAL WALL\MU500.DWG

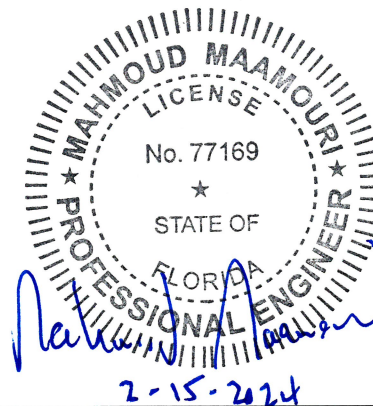


This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

The support system (dashed lines) is not governed by this NOA except as follows:

Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

Deflection of support framing not to exceed $L/180$.



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Miami-Dade Product Control

COMPUTERIZED STRUCTURAL DESIGN, INC.
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MAHMOUD MAAMOURI
P.E. # 77169

APPROVAL STAMP:

NOVUM STAMP:

21OCT20	ZJM	SWK
CHANGED DEFLECTION LIMIT FROM L/160 TO L/180		
23JUL11	BTH	SWK
REVISED PER COMMENT BY BCCO		
REV.NO.	DATE	DWG.BY
CHK.BY		

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www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

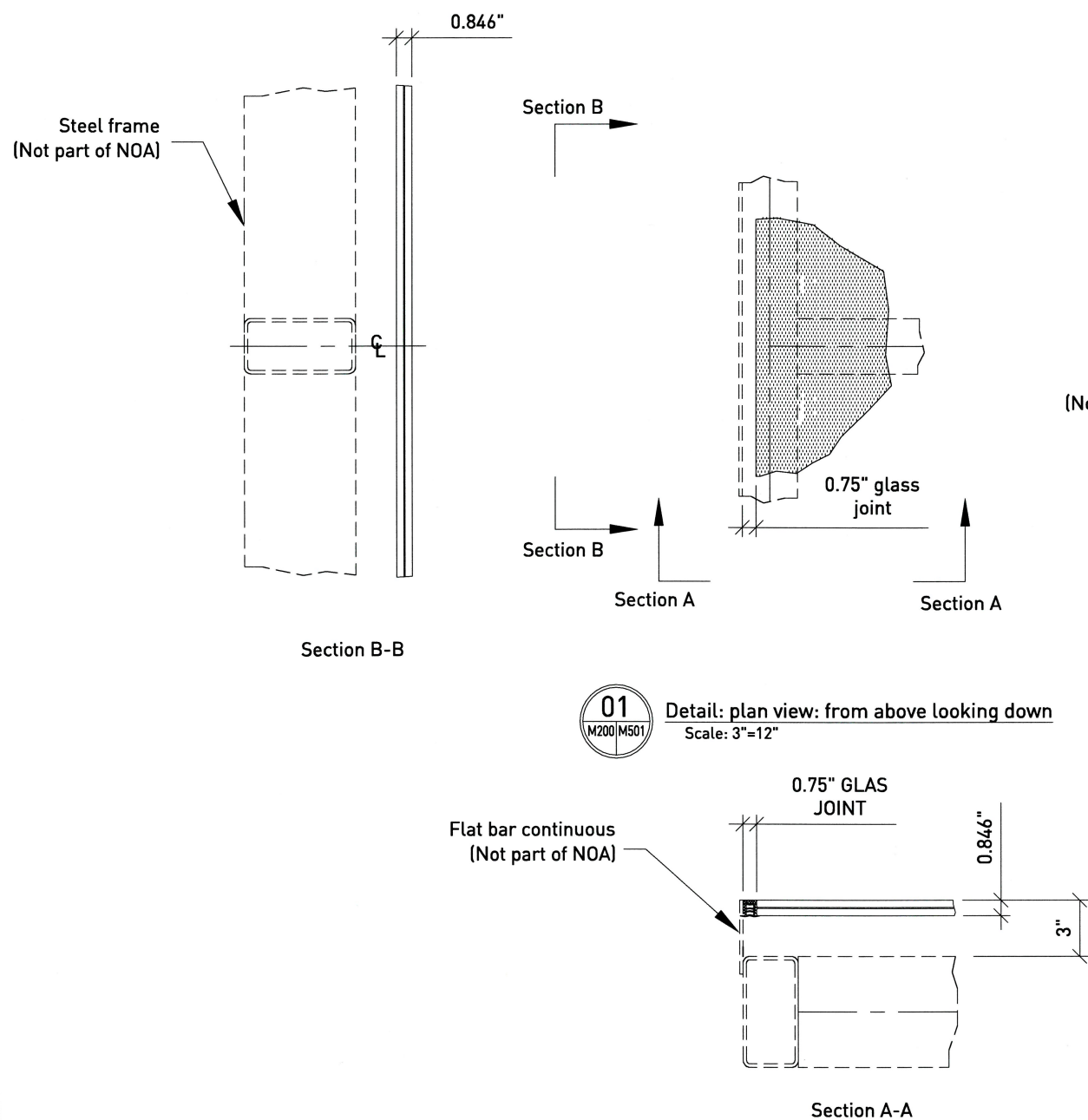
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SECTION & DETAIL VIEWS

DRAWN BY:	DATE:
BTH	02MAR10
CHECKED BY:	APPROVED BY:
SWK	SWK
SCALE:	PROJECT MANAGER:
3"=12"	GB

PROJECT NUMBER:
25-183

SHEET NUMBER:
MU500-2

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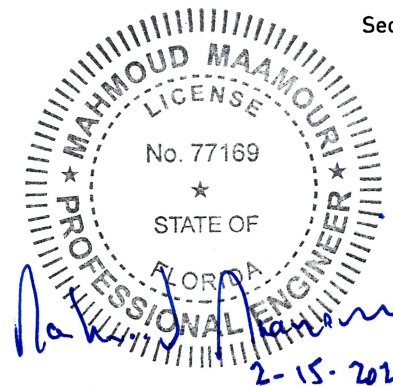
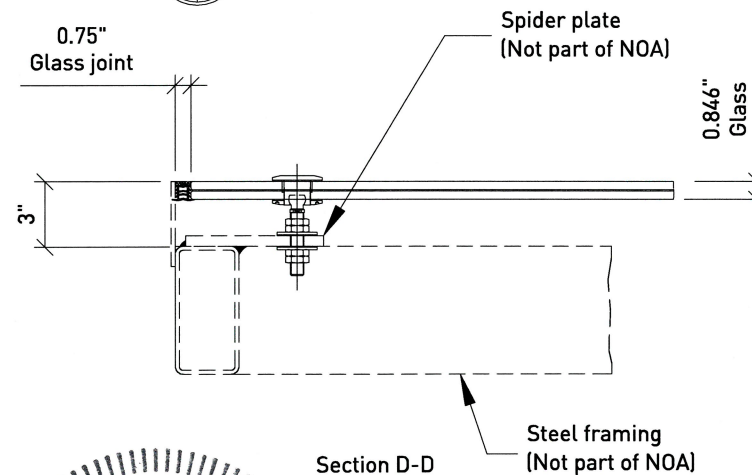
This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

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Deflection of support framing not to exceed L/180.

02 Detail: Corner condition
Scale: 3"=12"



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Miami-Dade Product Control

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8989 North Port Washington Road
Milwaukee, WI 53217
(414) 351-5588
EP-0001982
MAHMOUD MAAMOURI
PE # 77169

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21OCT20 ZJM SWK
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23JUL11 BTH SWK
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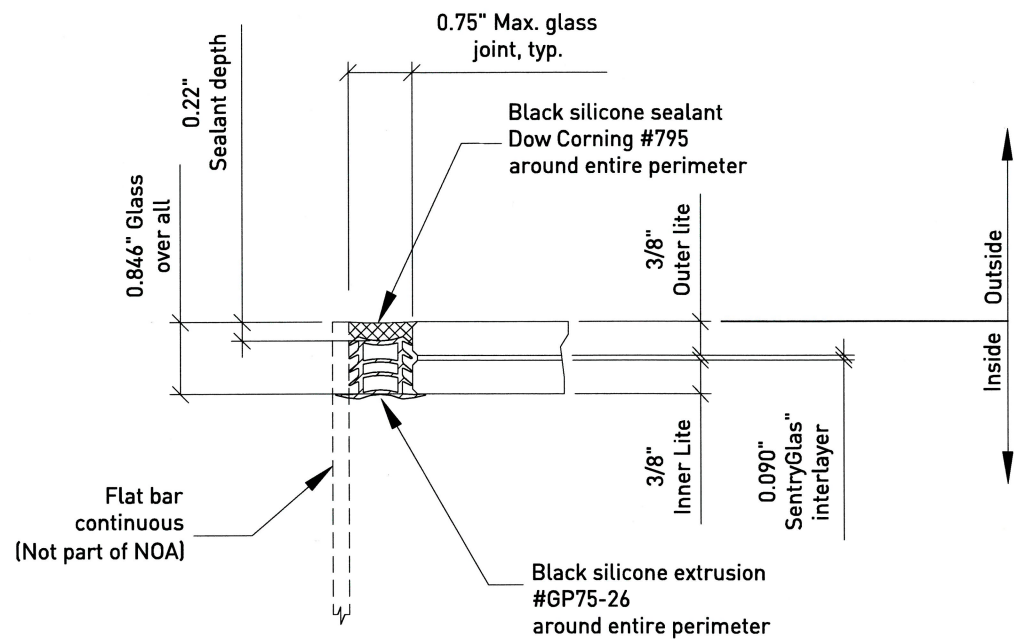
PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #1
SECTION & DETAIL VIEWS

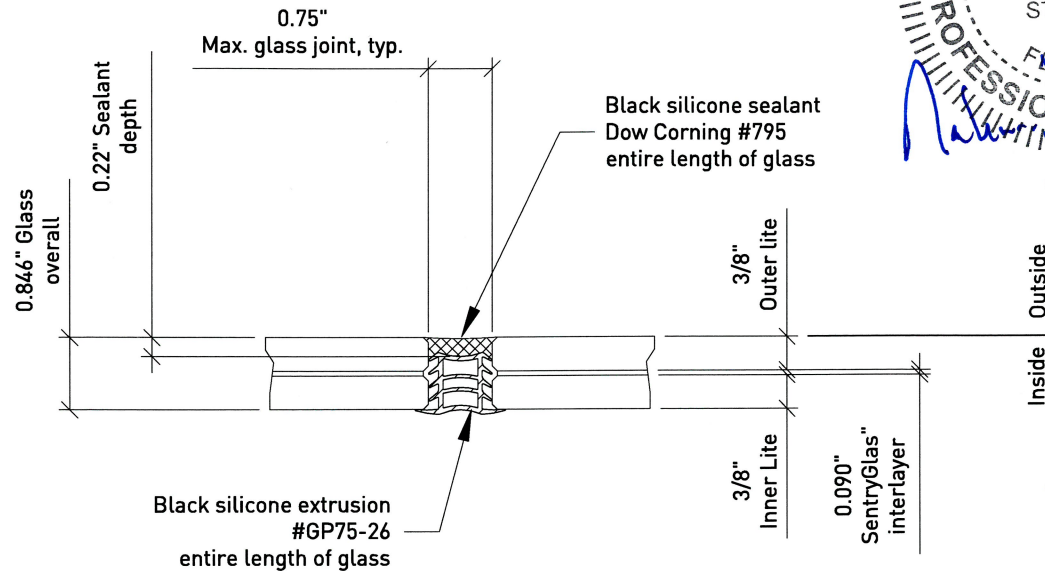
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SCALE: 3"=12" PROJECT MANAGER: GB

PROJECT NUMBER:
25-183

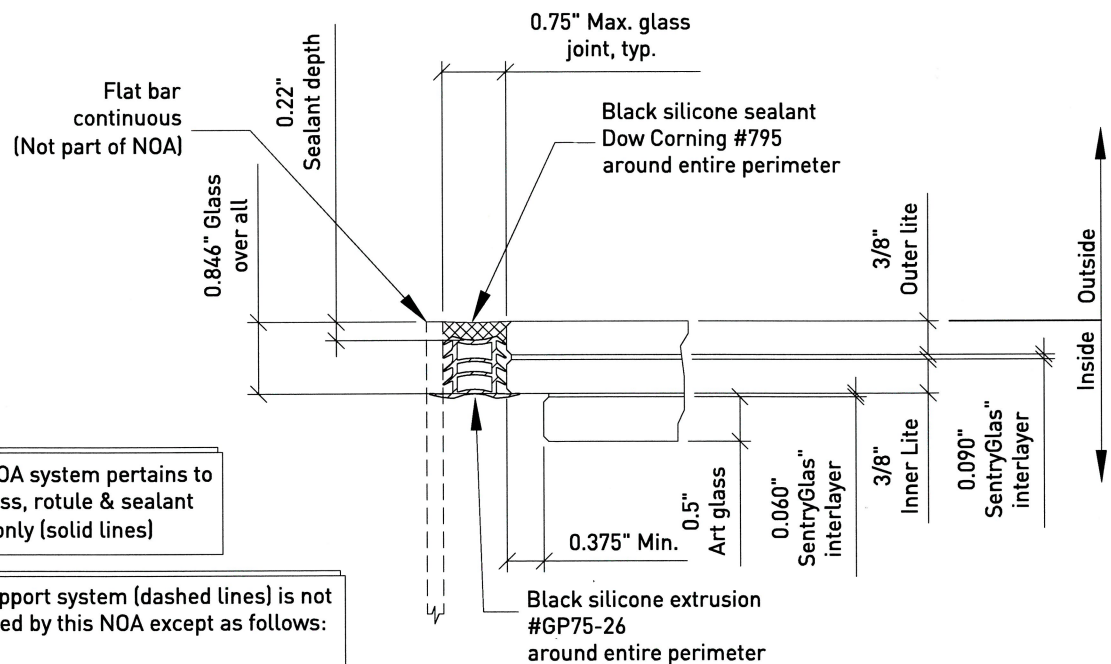
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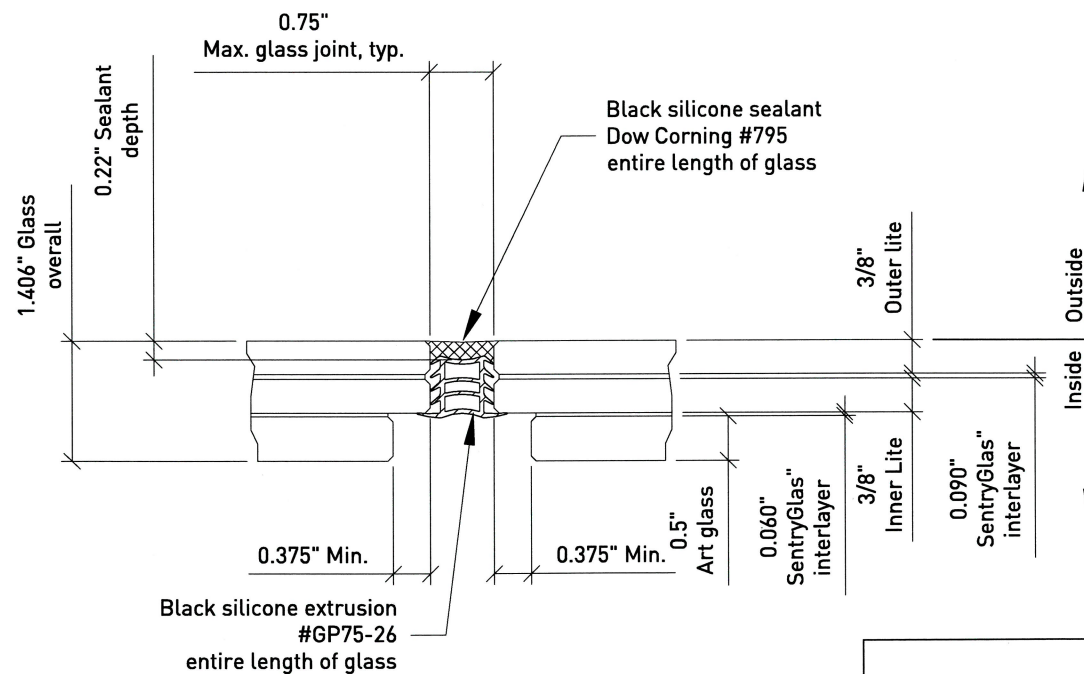
01
M200/M502
Detail: plan view: thru glass joint @ 3/8" + 3/8" glass
Scale: 6"=12"



02
M200/M502
Detail: plan view: thru glass joint @ 3/8" + 3/8" glass
Scale: 6"=12"



03
M502
Detail: Sim to 01 above when using Art glass
Scale: 6"=12"



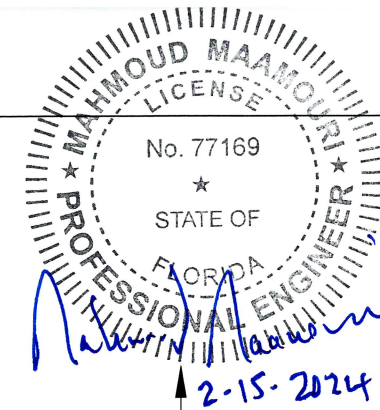
04
M502
Detail: Sim to 02 above when using Art glass
Scale: 6"=12"

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The support system (dashed lines) is not governed by this NOA except as follows:

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Deflection of support framing not to exceed L/180.



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APPROVAL STAMP:

NOVUM STAMP:

21OCT20 ZJM SWK
CHANGED DEFLECTION LIMIT FROM L/160 TO L/180
23JUL11 BTH SWK
REVISED PER COMMENTS BY BCCO

REV. NO.	DATE	DWG. BY	CHK. BY

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NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM:HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #1
GLASS JOINT DETAILS

PRODUCT REVISED
As complying with the Florida Building Code

NOA-No. **24-0102.03**
Expiration Date: **08/25/2026**

By: *Manuel Perez*
Miami-Dade Product Control

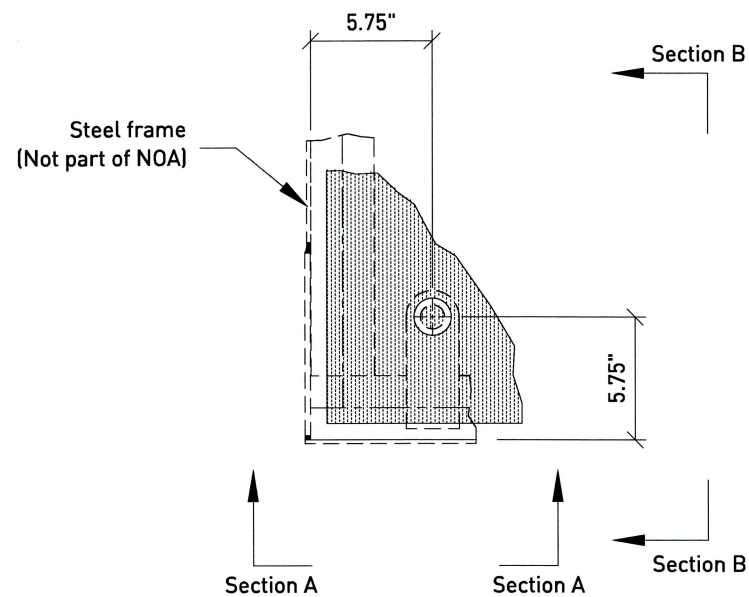
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BTH	04MAR10

CHECKED BY:	APPROVED BY:
SWK	SWK

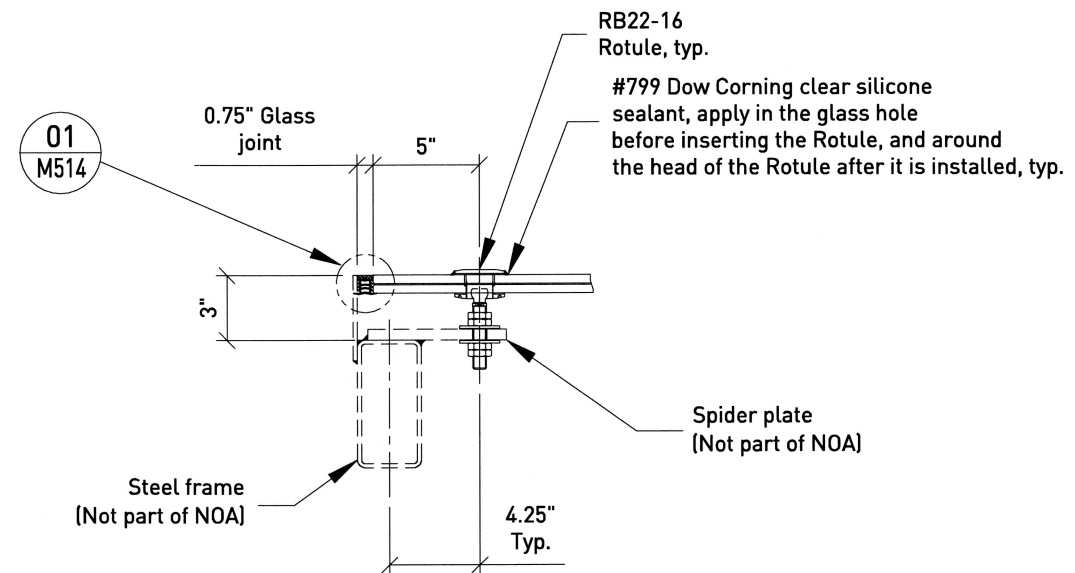
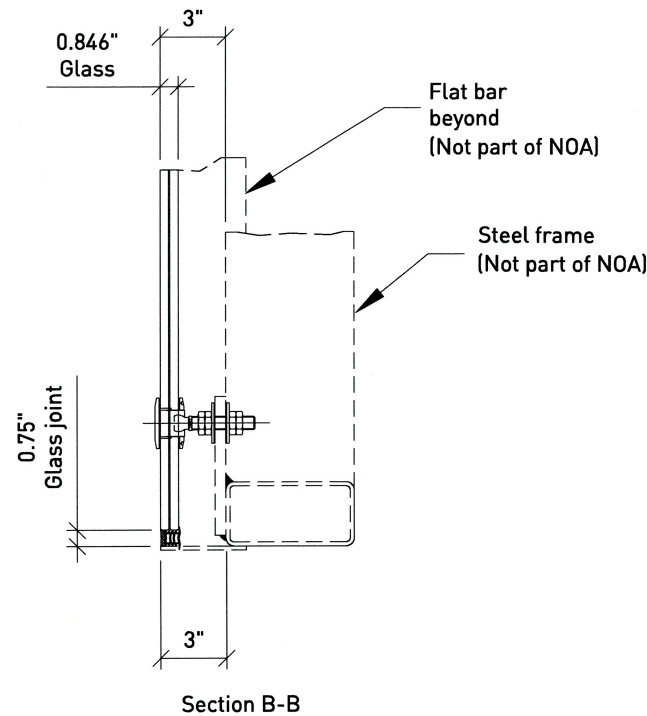
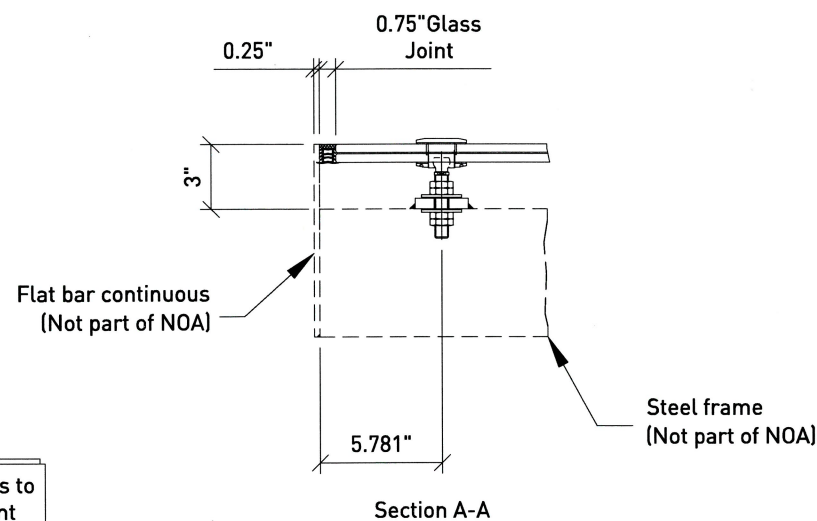
SCALE:	PROJECT MANAGER:
FULL	GB

PROJECT NUMBER:
25-183

SHEET NUMBER:
MU502-2



01
M210/M510
Detail: Corner condition
Scale: 3"=12"

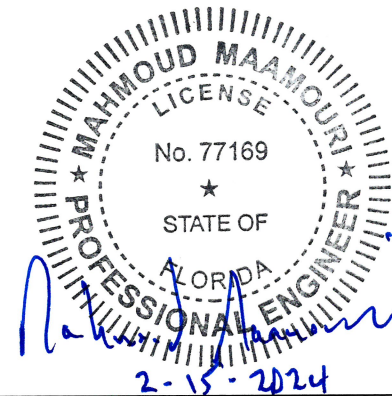


02
M210/M510
Section: Typical edge condition @ spider arm
Scale: 3"=12"

This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

The support system (dashed lines) is not governed by this NOA except as follows:
Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

Deflection of support framing not to exceed $L/180$.



PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **24-0102.03**
Expiration Date: **08/25/2026**
By: *Manuel Perez*
Miami-Dade Product Control

COMPUTERIZED STRUCTURAL DESIGN, INC.
8989 North Port Washington Road
Milwaukee, WI 53217
(414) 351-5588
EB-0001982
MAHMOUD MAAMOURI
PE # 77169

ENGINEER STAMP:

APPROVAL STAMP:

NOVUM STAMP:

21OCT20 ZJM SWK
CHANGED DEFLECTION LIMIT FROM L/160 TO L/180
23JUL11 BTH SWK
REVISED PER COMMENTS BY BCCO

Novum Structures LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

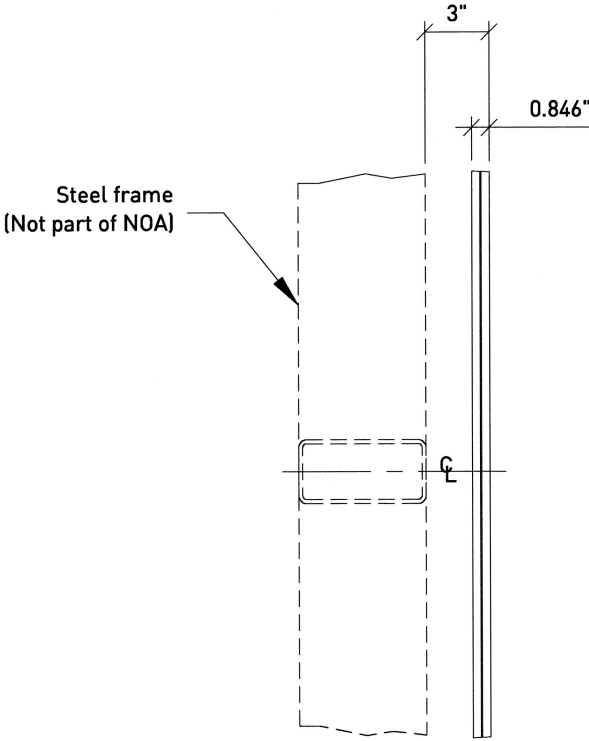
DRAWING DESCRIPTION:
MOCK-UP #2
SECTION & DETAIL VIEWS

DRAWN BY: BTH DATE: 02MAR10
CHECKED BY: SWK APPROVED BY: SWK
SCALE: 3"=12" PROJECT MANAGER: GB

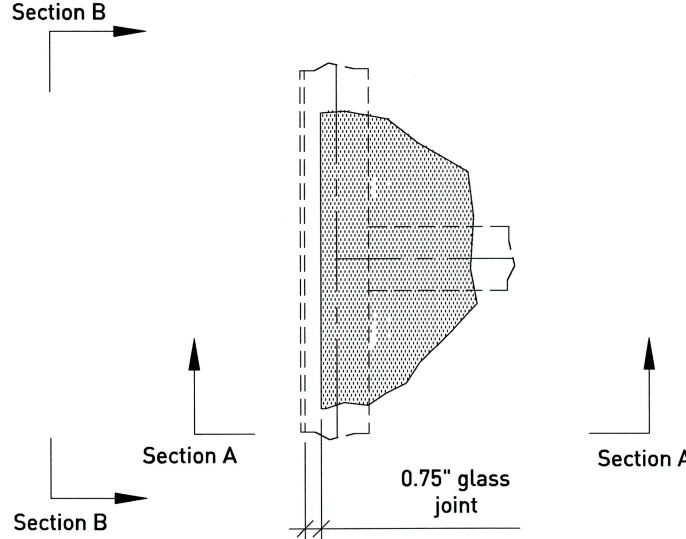
PROJECT NUMBER:
25-183

SHEET NUMBER:
MU510-2

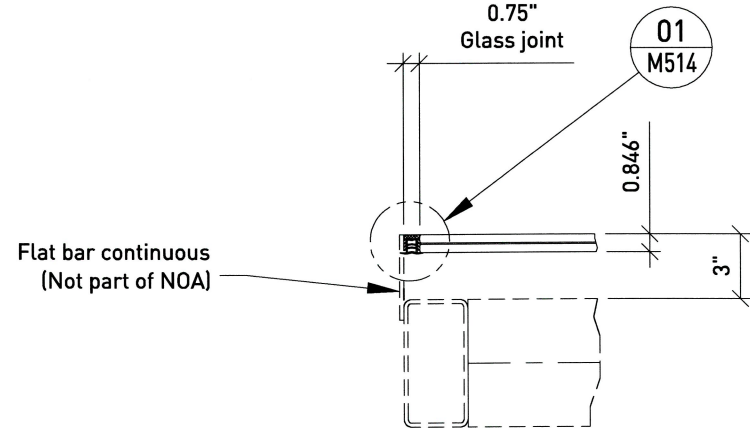
2Nov2023 4:08 PM \\EGNTEDRIVE\INVENTORY\PSG\2101 CALCS & TESTS\FLORIDA APPROVAL\SHG01 - NOA WITH LAMINATED PSG\HG01 - 2023 FBC - RENEWAL & REVISION\25-183 VERTICAL WALL\MU511.DWG



Section B-B



01
M210/M511
Detail: Typical edge connection
Scale: 3"=12"



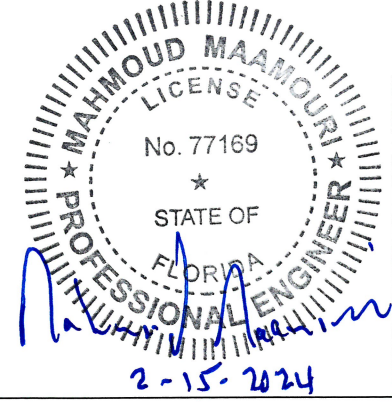
Section A-A

This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

The support system (dashed lines) is not governed by this NOA except as follows:

Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

Deflection of support framing not to exceed $L/180$.



PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 24-0102.03
Expiration Date: 08/25/2026
By: Manuel Perez
Miami-Dade Product Control

COMPUTERIZED STRUCTURAL DESIGN, INC.
8989 North Port Washington Road
Milwaukee, WI 53217
(414) 351-5588
EB-0001882
MAHMOUD MAAMOURI
P.E. # 77169

APPROVAL STAMP:

NOVUM STAMP:

21OCT20	ZJM	SWK
CHANGED DEFLECTION LIMIT FROM L/160 TO L/180		
23JUL11	BTH	SWK
REVISED PER COMMENTS BY BCCO		
REV.NO.	DATE	DWG.BY

Novum Structures LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

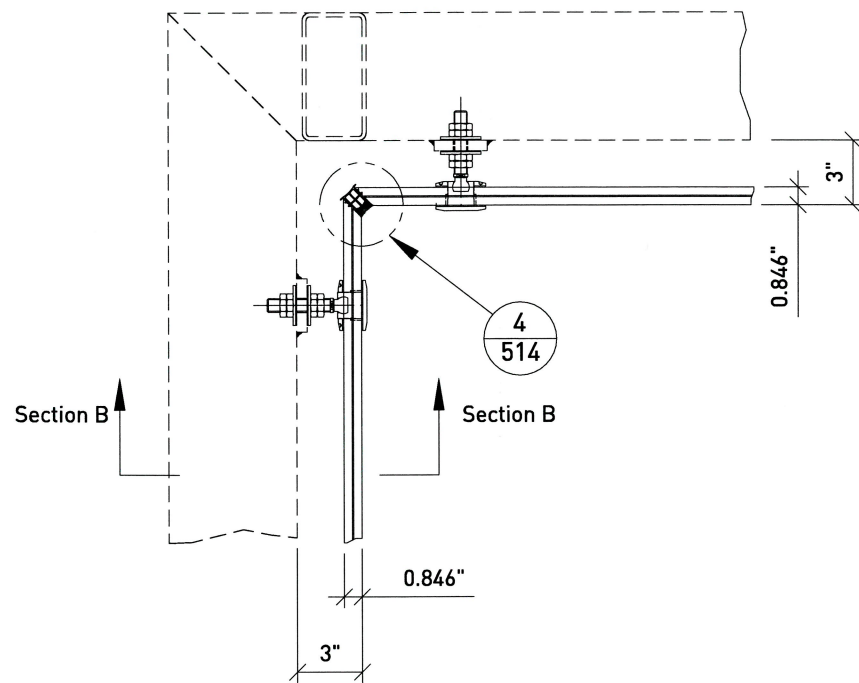
DRAWING DESCRIPTION:
MOCK-UP #2
SECTION & DETAIL VIEWS

DRAWN BY:	DATE:
BTH	02MAR10
CHECKED BY:	APPROVED BY:
SWK	SWK
SCALE:	PROJECT MANAGER:
3"=12"	GB

PROJECT NUMBER:
25-183

SHEET NUMBER:
MU511-2

2Nov2023 4:02 PM \\EGN\TDRIVE\INVENTORY\PSG\12101 CALCS & TESTS\FLORIDA APPROVAL\SHG01 - NOA WITH LAMINATED PSG\HG01 - 2023 FBC - RENEWAL & REVISION\25-183 VERTICAL WALL\MU512.DWG



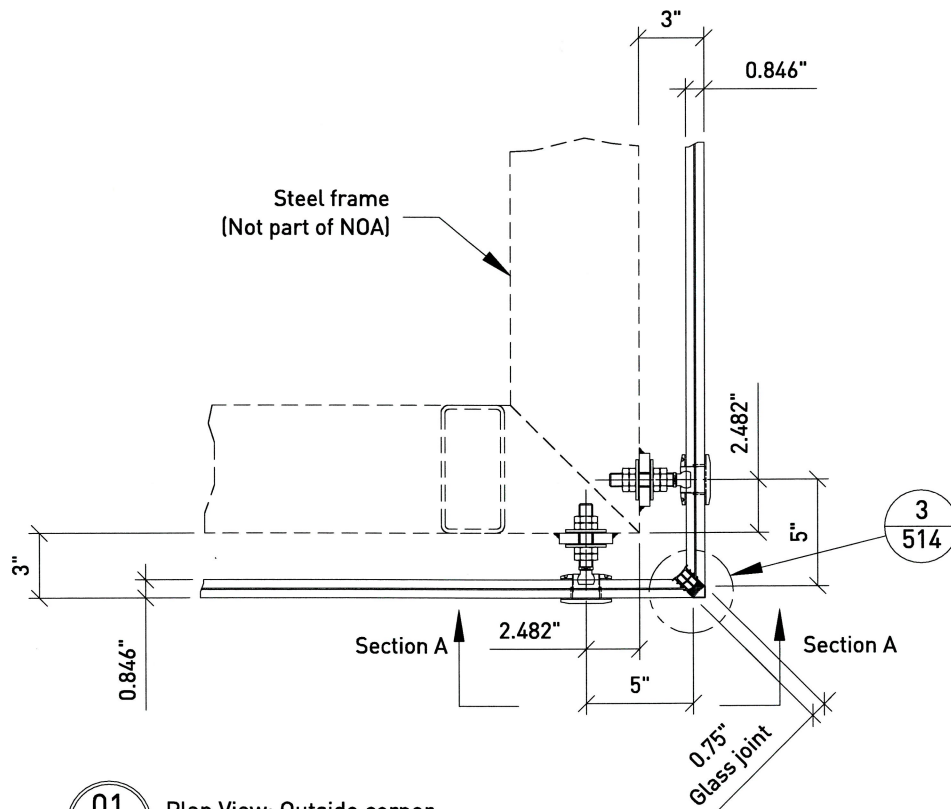
02 Plan View: Inside corner
Scale: 3"=12"

This NOA system pertains to the glass, rotule & sealant joints only (solid lines)

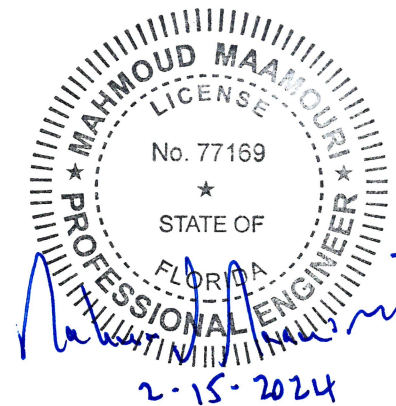
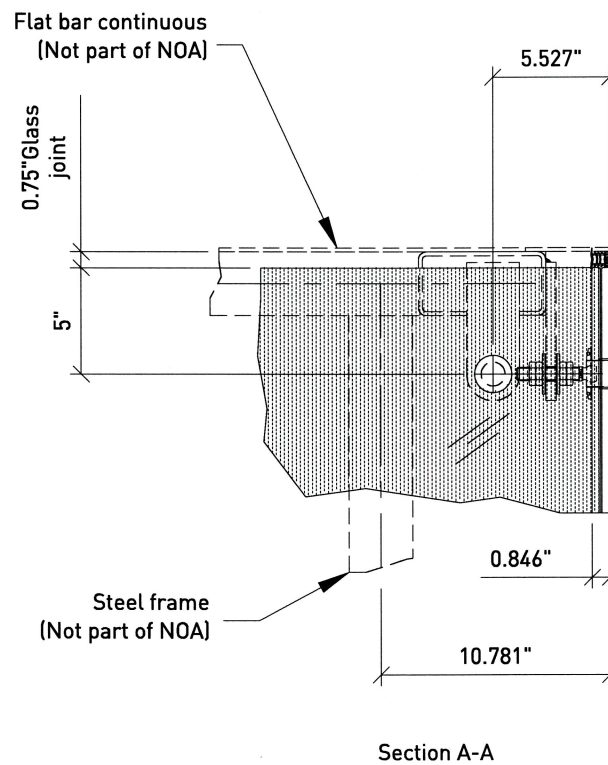
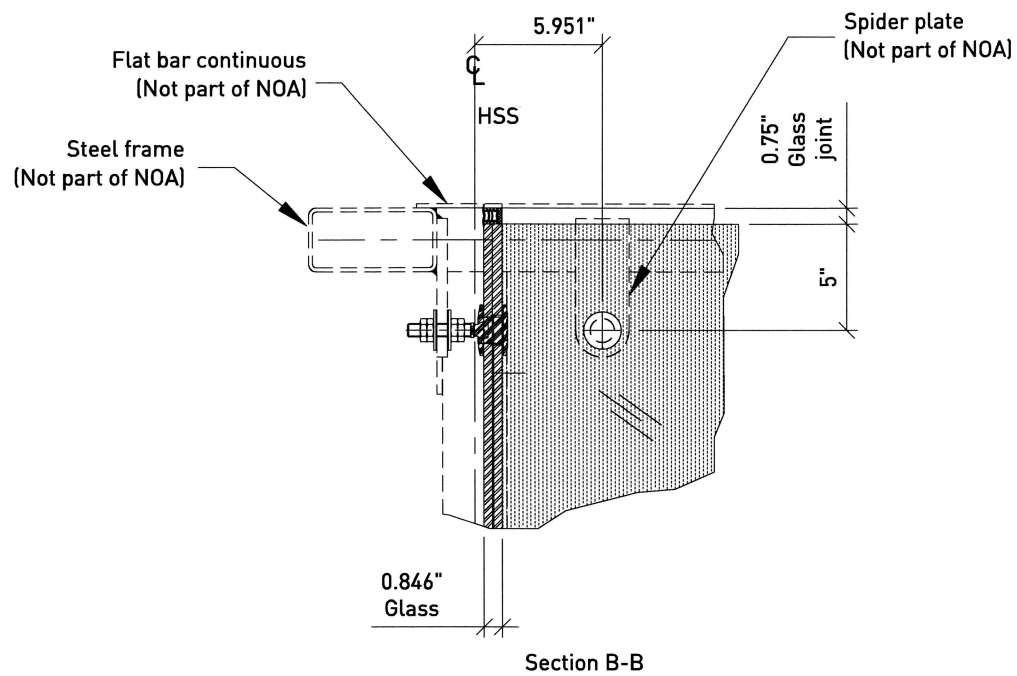
The support system (dashed lines) is not governed by this NOA except as follows:

Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

Deflection of support framing not to exceed $L/180$.



01 Plan View: Outside corner
Scale: 3"=12"



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Miami-Dade Product Control

COMPUTERIZED STRUCTURAL DESIGN, INC.
8989 North Port Washington Road
Milwaukee, WI 53217
(414) 351-5588
EP-0001982
MAHMOUD MAAMOURI
PE # 77169

ENGINEER STAMP:

APPROVAL STAMP:

NOVUM STAMP:

21OCT20	ZJM	SWK
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CHANGED DEFLECTION LIMIT FROM L/160 TO L/180

23JUL11	BTH	SWK
---------	-----	-----

REVISED PER COMMENTS BY BCCO

REV.NO.	DATE	DWG.BY	CHK.BY
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Menomonee Falls, WI 53051 USA
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www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK- UP #2
SECTION & DETAIL VIEWS

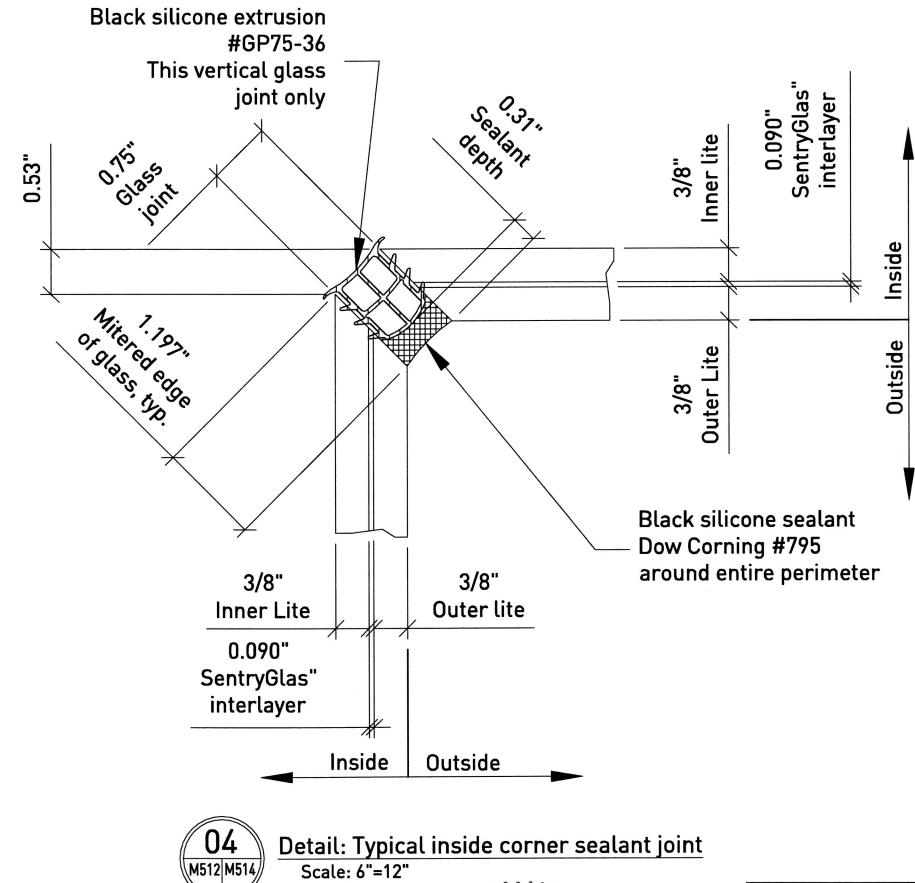
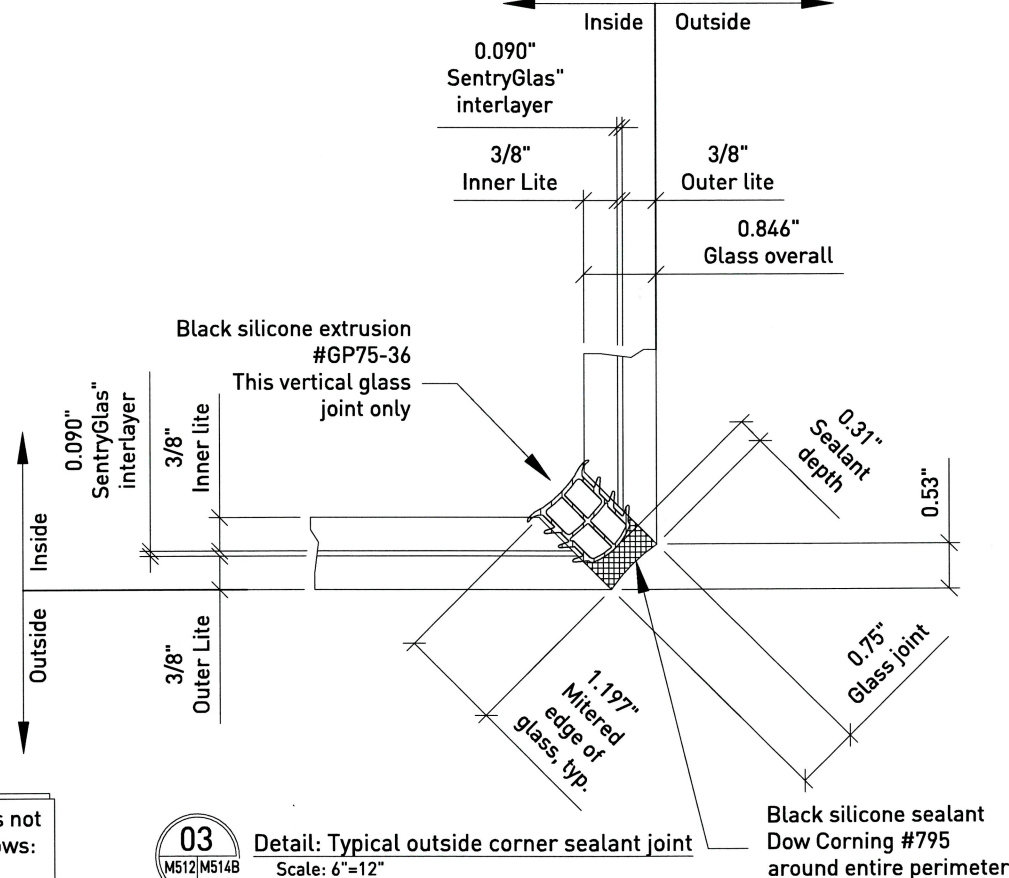
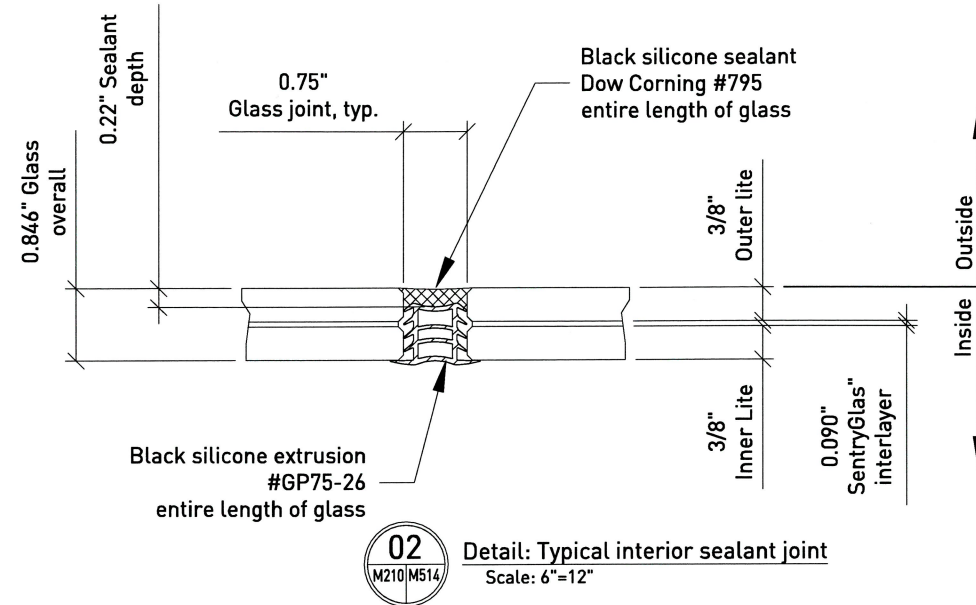
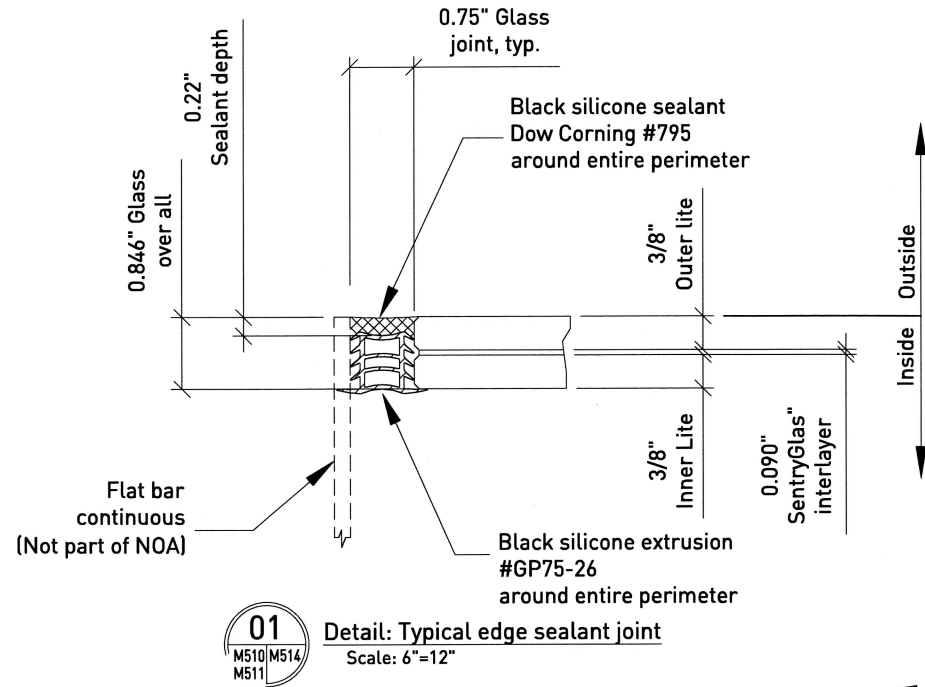
DRAWN BY:	DATE:
BTH	02MAR10

CHECKED BY:	APPROVED BY:
SWK	SWK

SCALE:	PROJECT MANAGER:
3"=12"	GB

PROJECT NUMBER:
25-183

SHEET NUMBER:
MU512-2

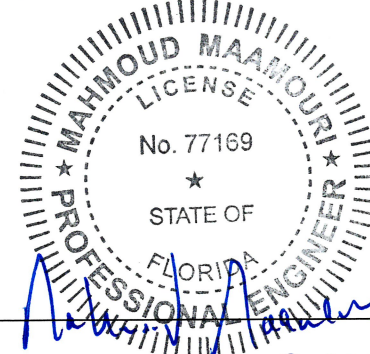


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Deflection of support framing not to exceed $L/180$.



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As complying with the Florida Building Code
NOA-No. **24-0102.03**
Expiration Date: **08/25/2026**
By: *Manuel Perez*
Miami-Dade Product Control

COMPUTERIZED STRUCTURAL DESIGN, INC.
8989 North Port Washington Road
Milwaukee, WI 53217
(414) 351-5588
E9-0001982
MAHMOUD MAAMOURI
P.E. # 77169

APPROVAL STAMP:

NOVUM STAMP:

21OCT20	ZJM	SWK
CHANGED DEFLECTION LIMIT FROM L/160 TO L/180		
23JUL11	BTH	SWK
REVISED PER COMMENTS BY BCCO		
REV. NO.	DATE	DWG. BY

Novum Structures LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
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www.novumstructures.com
info@novumstructures.com

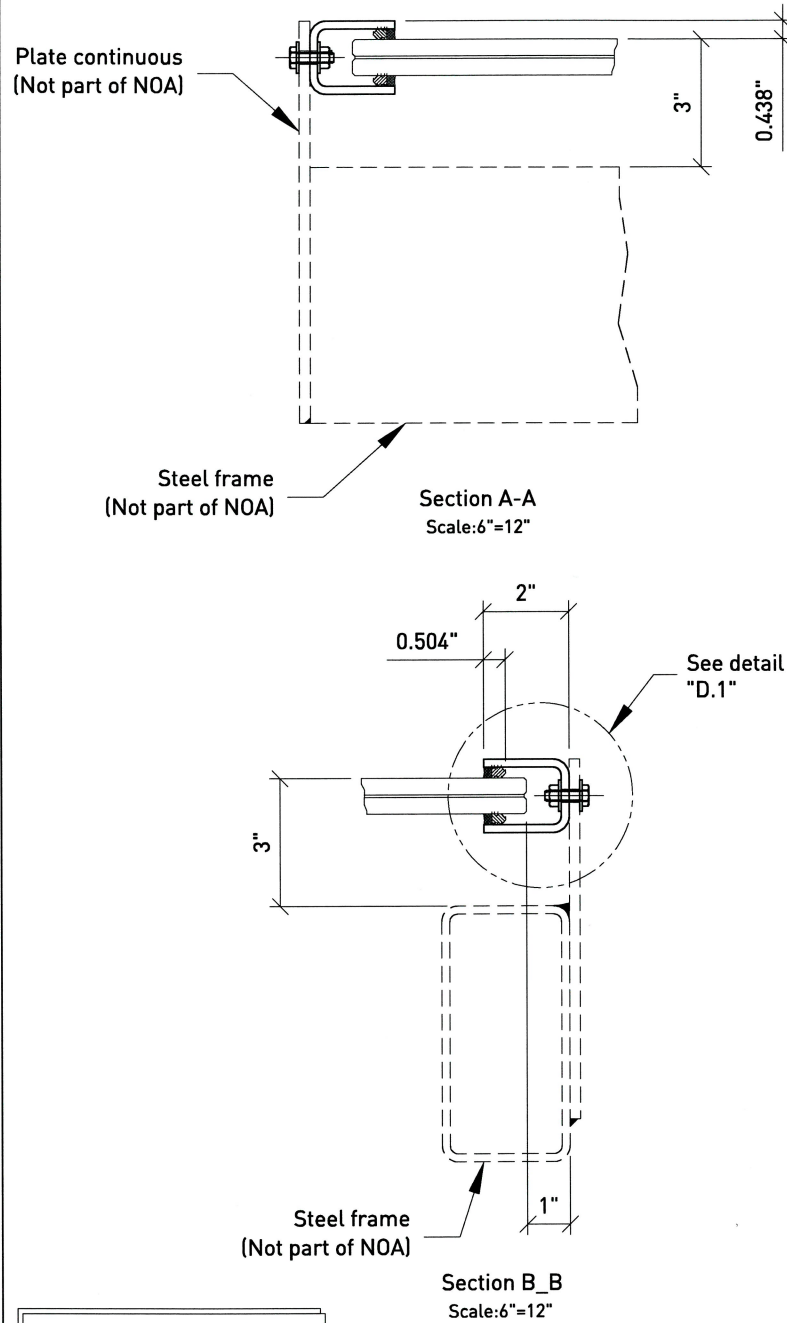
NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM:HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #2
GLASS JOINT DETAILS

DRAWN BY:	DATE:
BTH	04MAR10
CHECKED BY:	APPROVED BY:
SWK	SWK
SCALE:	PROJECT MANAGER:
FULL	GB
PROJECT NUMBER:	
25-183	

SHEET NUMBER:
MU514-2

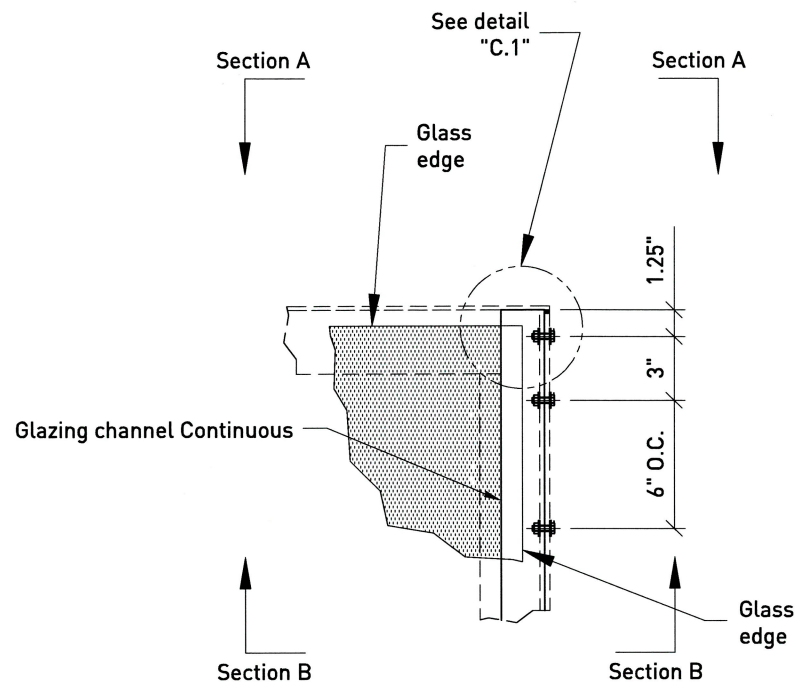


This NOA system pertains to the glass, rotule, glazing channel & sealant joints only (solid lines)

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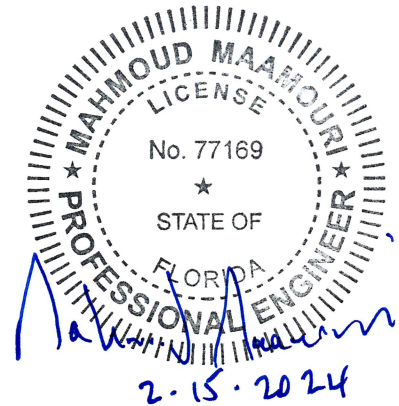
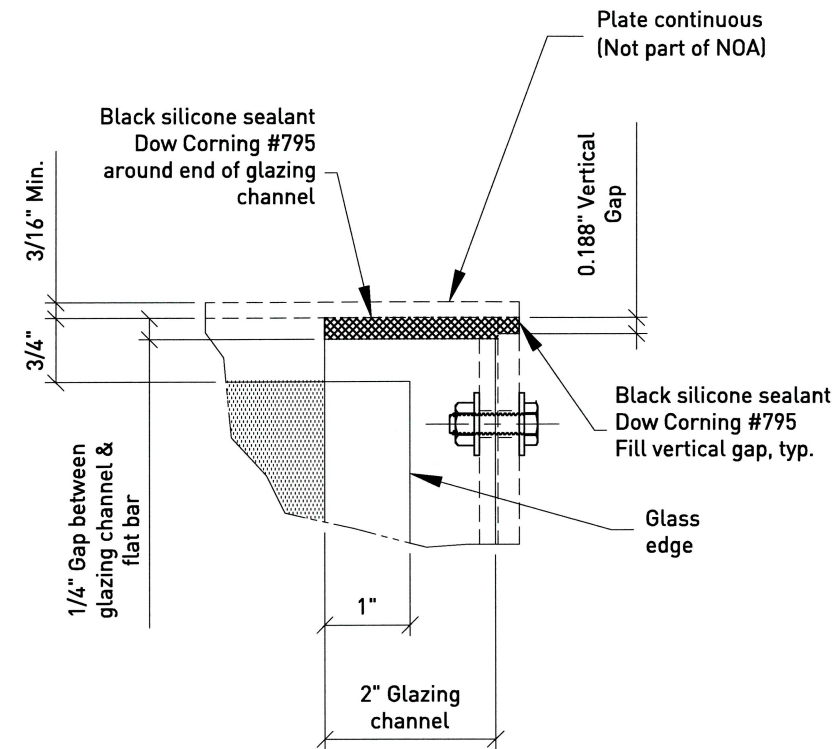
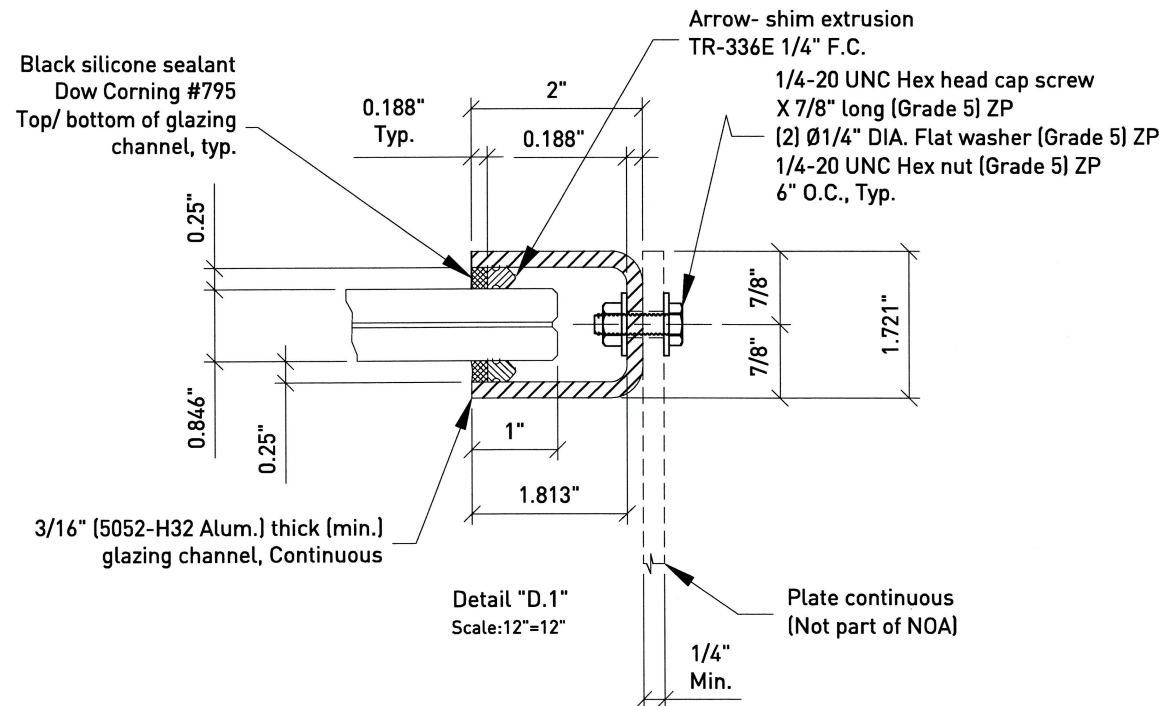
Minimum thickness of support system to be 3/16" minimum & determined via appropriate stress checks according to AISC steel construction manual and/or other applicable codes (governed by material, local jurisdictions, etc...).

Deflection of support framing not to exceed $L/180$.



01
M210/M515

Detail: Typical corner glazing channel detail
Scale: 3"=12"



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COMPUTERIZED STRUCTURAL DESIGN, INC.
8969 North Port Washington Road
Milwaukee, WI 53217
(414) 351-5588
EB-0001982
MAHMOUD MAAMOURI
PE # 77169

ENGINEER STAMP:

APPROVAL STAMP:

NOVUM STAMP:

21OCT20	ZJM	SWK
CHANGED DEFLECTION LIMIT FROM L/160 TO L/180		
23JUL11	BTH	SWK
REVISED PER COMMENTS BY BCCO		
REV. NO.	DATE	DWG. BY
CHK. BY		

Novum Structures LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
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www.novumstructures.com
info@novumstructures.com

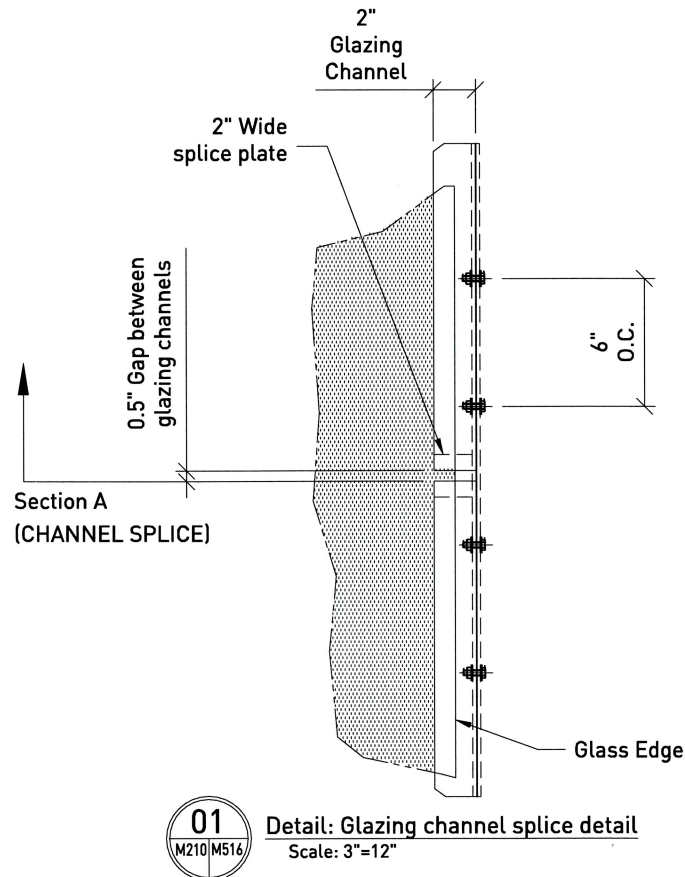
NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #2
SECTION & DETAIL VIEWS

DRAWN BY:	BTH	DATE:	02MAR10
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	3"=12"	PROJECT MANAGER:	GB
PROJECT NUMBER:	25-183		

SHEET NUMBER:
MU515-2

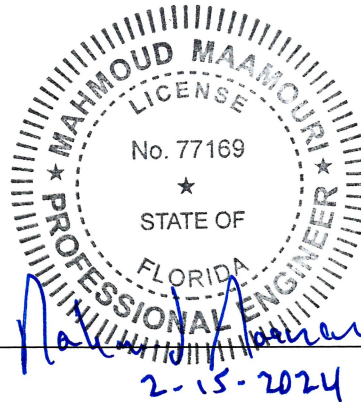
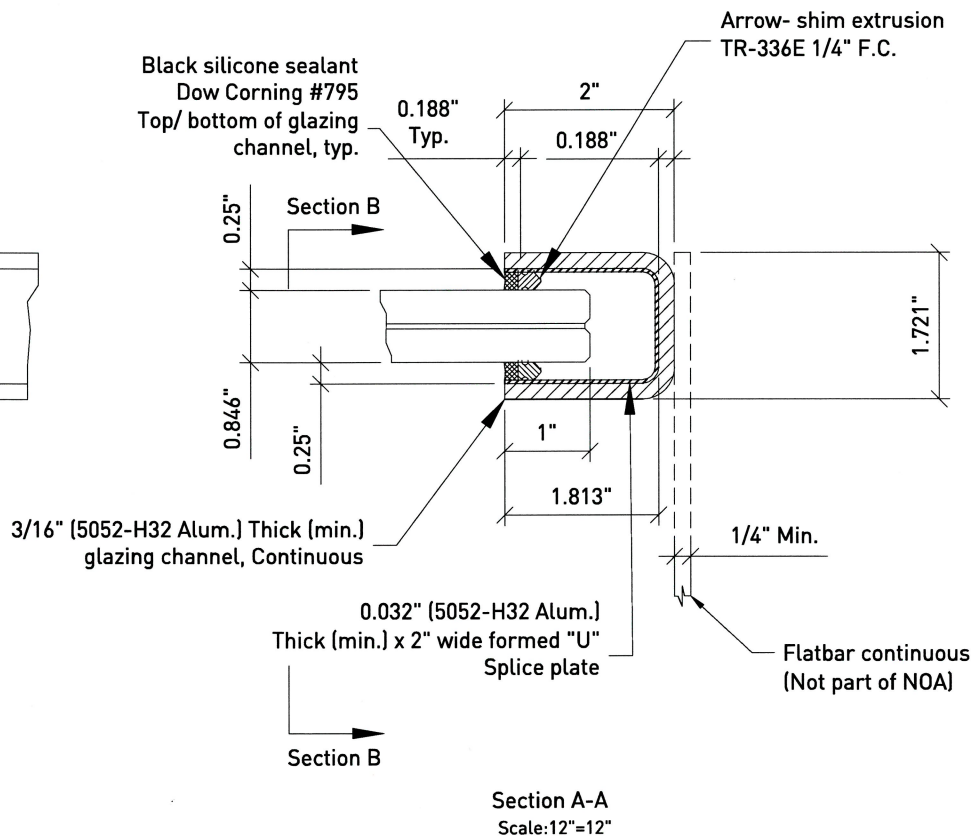
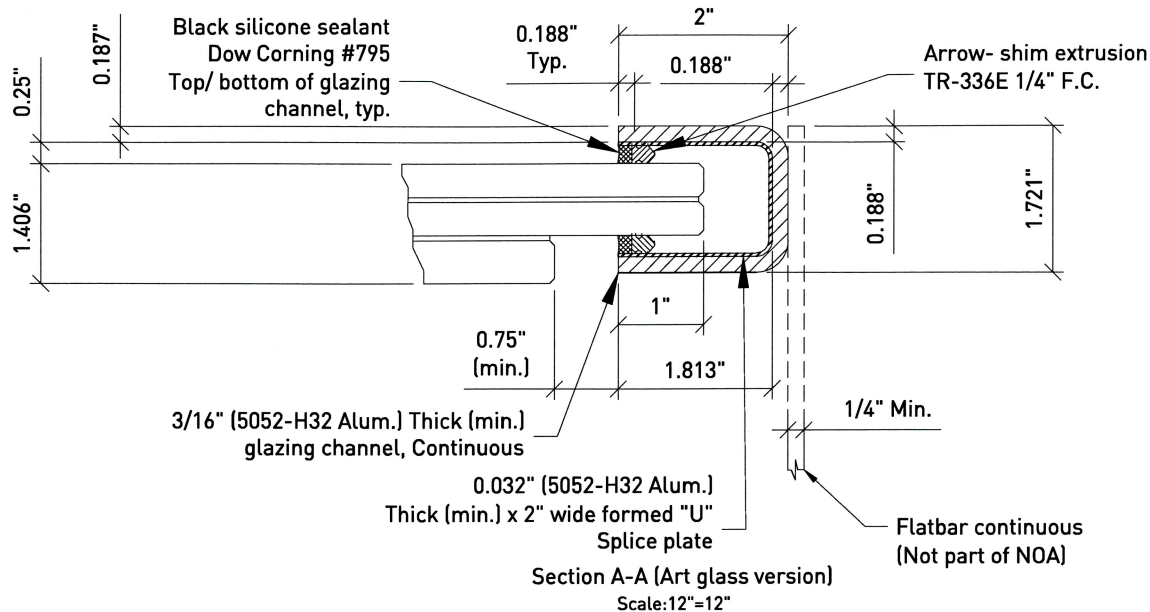
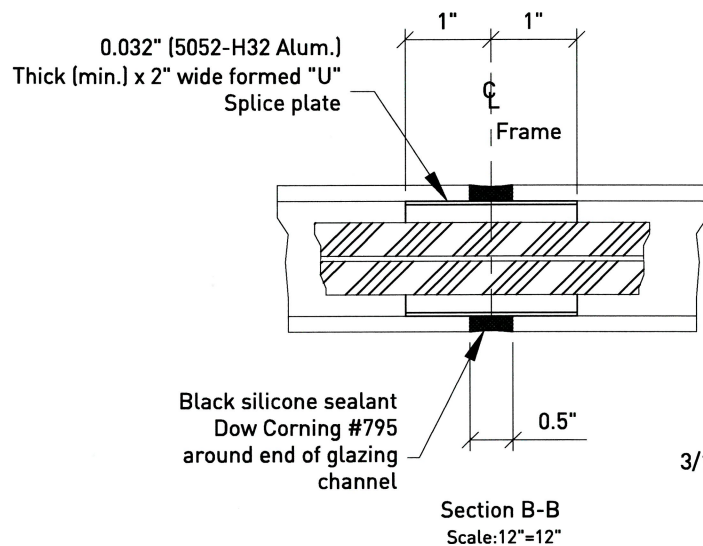


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Deflection of support framing not to exceed $L/180$.



PRODUCT REVISED
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NOA-No. **24-0102.03**
Expiration Date: **08/25/2026**
By: *Manuel Perez*
Miami-Dade Product Control

COMPUTERIZED STRUCTURAL DESIGN, INC.
8989 North Port Washington Road
Milwaukee, WI 53217
(414) 351-5588
EP-0001982
MAHMOUD MAAMOURI
P.E. # 77169

ENGINEER STAMP:

APPROVAL STAMP:

NOVUM STAMP:

21OCT20	ZJM	SWK
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23JUL11	BTH	SWK
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REV.NO.	DATE	DWG.BY
CHK.BY		

Novum Structures LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
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NOVUM

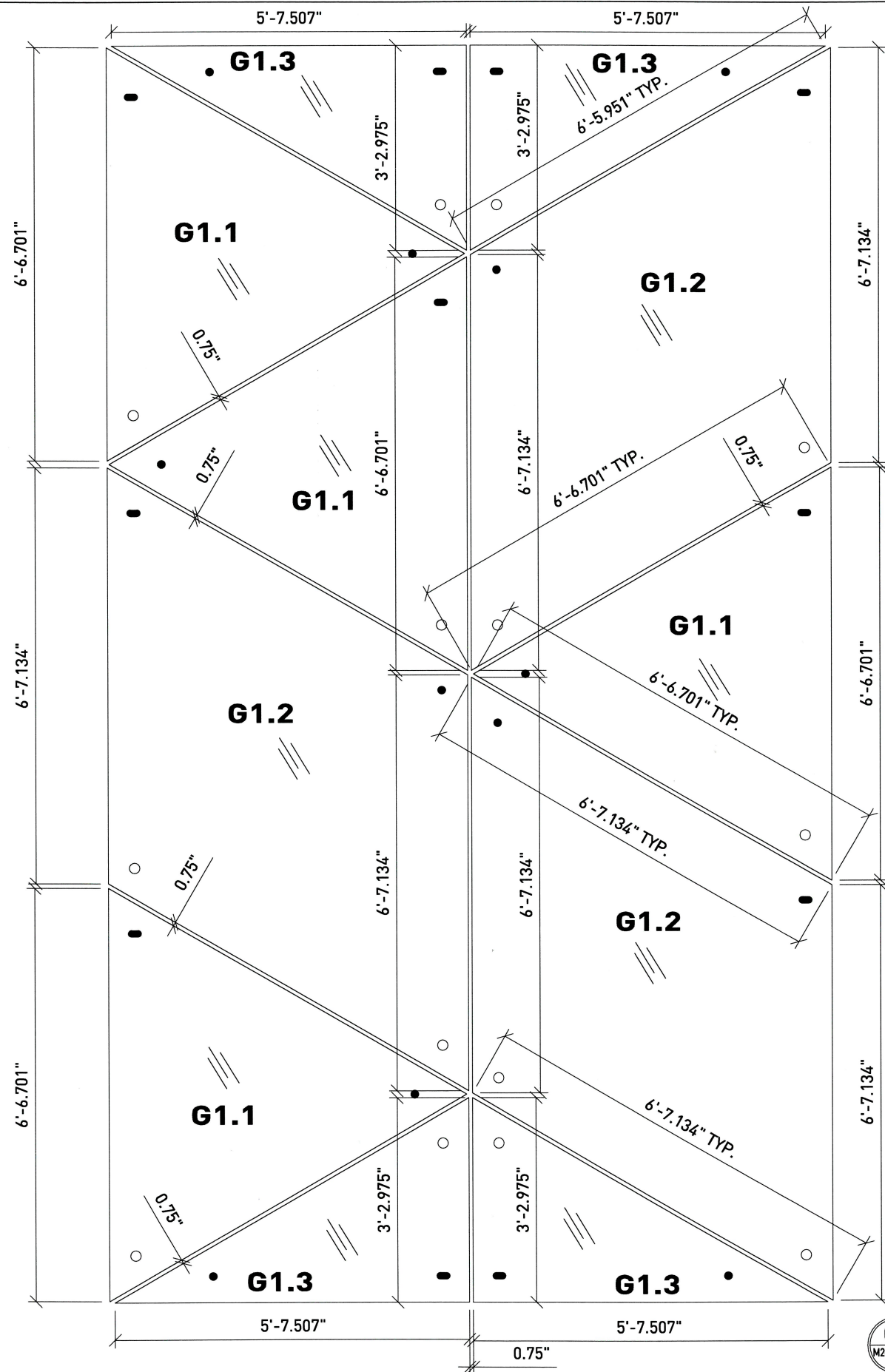
PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #2
SECTION & DETAIL VIEWS

DRAWN BY:	BTH	DATE:	02MAR10
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	3"=12"	PROJECT MANAGER:	GB

PROJECT NUMBER:
25-183

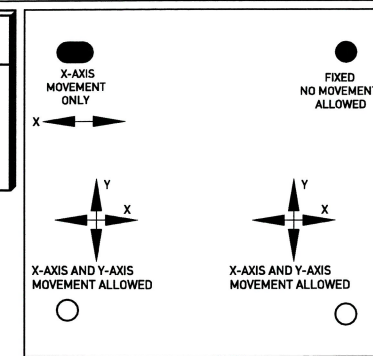
SHEET NUMBER:
MU516-2



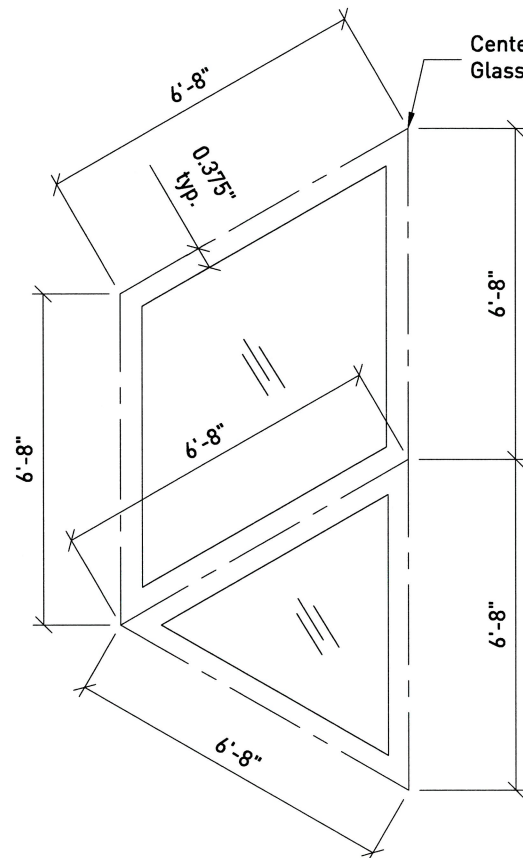
01
M200 M700

Glass layout and dimensions
Scale: 1"=12"

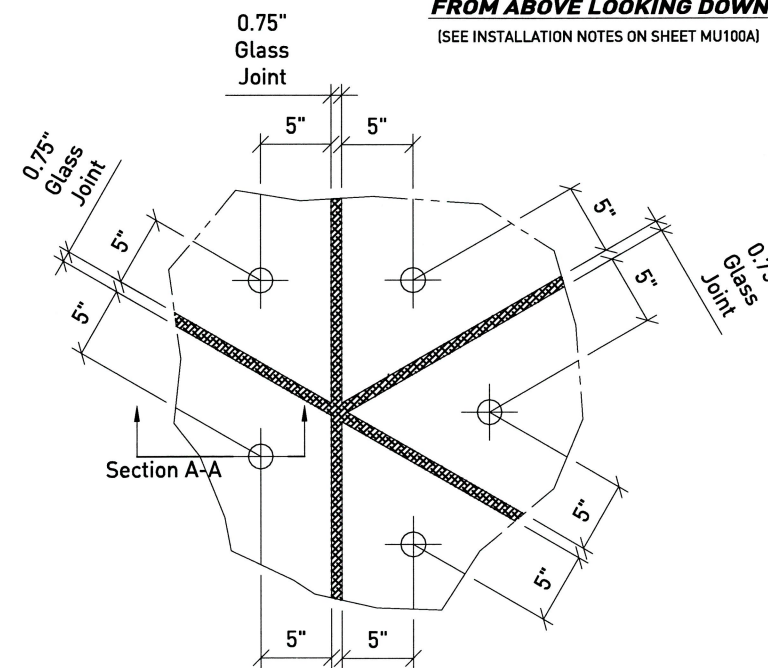
SYMBOL KEY	
■	SLOTTED HOLE IN SPIDER
○	OVERSIZED HOLE IN SPIDER
●	FIXED HOLE IN SPIDER



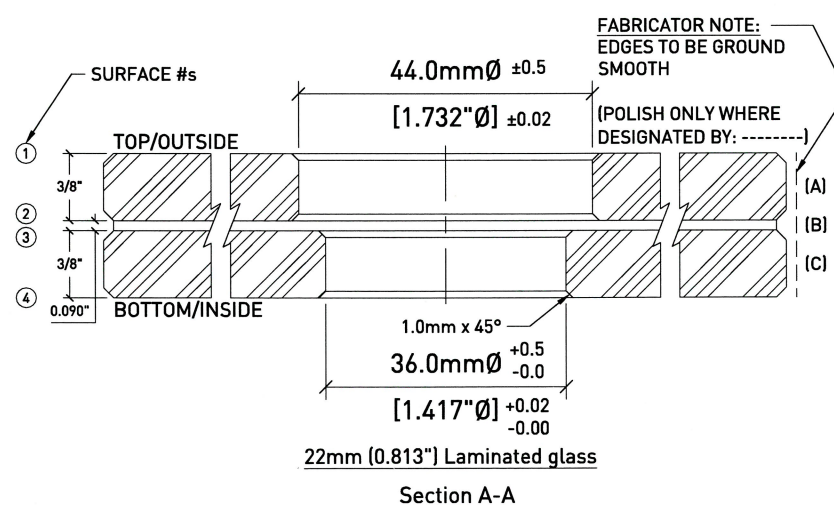
VIEW OF ONE GLASS PANE
FROM ABOVE LOOKING DOWN
(SEE INSTALLATION NOTES ON SHEET MU100A)



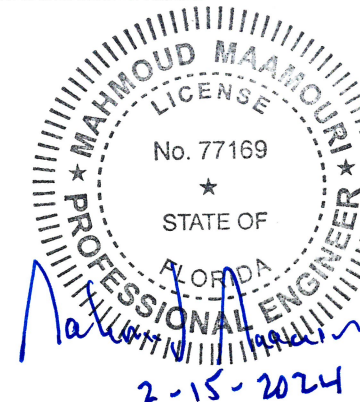
Detail: Basis of glass layout



Detail: Basis of Center of Hole to edge of glass



FABRICATOR NOTE:
EDGES TO BE GROUND
SMOOTH
(POLISH ONLY WHERE
DESIGNATED BY: _____)



PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **24-0102.03**
Expiration Date: **08/25/2026**
By: *Manuel Perez*
Miami-Dade Product Control

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DESIGN, INC.
8889 North Port Washington Road
Milwaukee, WI 53217
(414) 351-5588
E3-0001982
MAHMOUD MAAMOURI
P.E. # 77169

APPROVAL STAMP:

NOVUM STAMP:

23JUL11 BTH SWK
REVISED PER COMMENTS BY BCCO

Novum Structures LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
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NOVUM

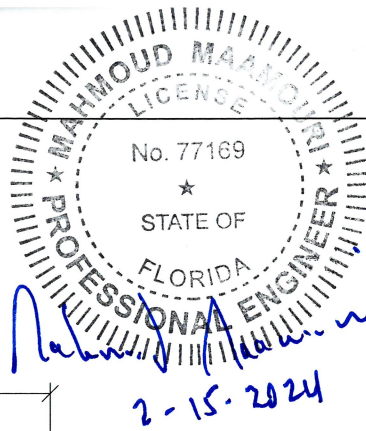
PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK-UP #1
GLASS LAYOUT &
DIMENSIONS

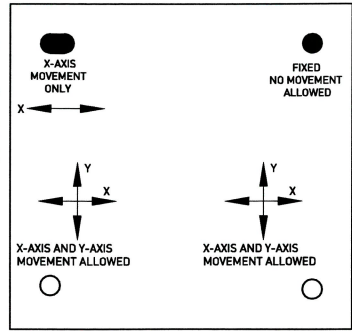
DRAWN BY: BTH DATE: 02MAR10
CHECKED BY: SWK APPROVED BY: SWK
SCALE: 1"=12" PROJECT MANAGER: GB

PROJECT NUMBER:
25-183

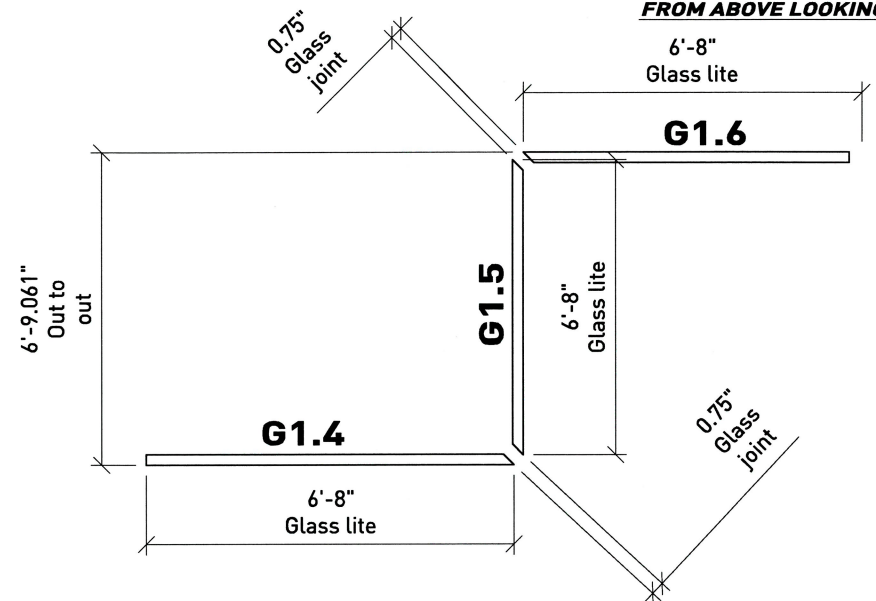
SHEET NUMBER:
MU700-1



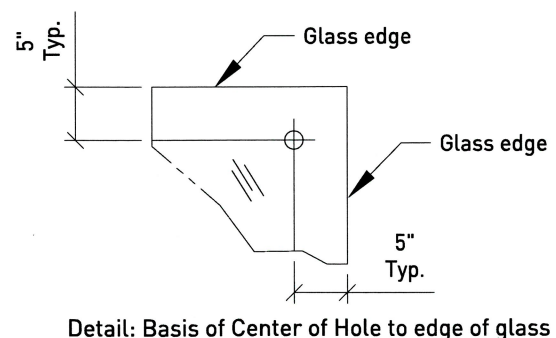
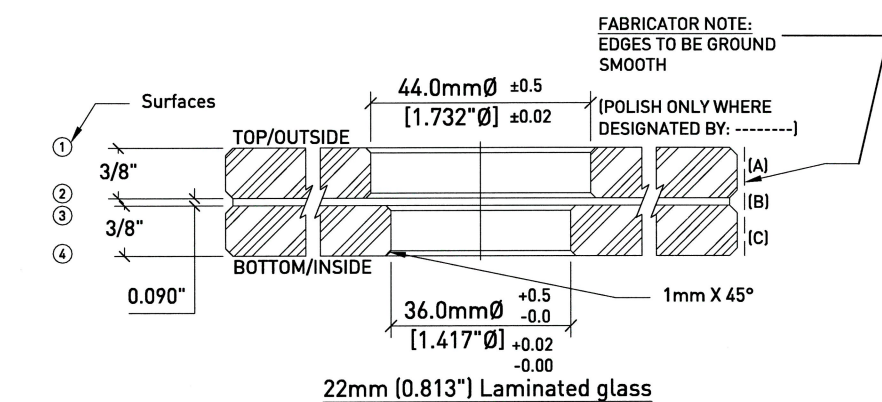
SYMBOL KEY	
●	SLOTTED HOLE IN SPIDER
○	OVERSIZED HOLE IN SPIDER
●	FIXED HOLE IN SPIDER



VIEW OF ONE GLASS PANE FROM ABOVE LOOKING DOWN



GLASS LEGEND FROM ABOVE LOOKING DOWN



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EB-0001882
MAHMOUD MAAMOURI
PE # 77169

APPROVAL STAMP:

NOVUM STAMP:

23JUL11	BTH	SWK
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REV. NO.	DATE	DWG. BY

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Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
MOCK- UP #2
GLASS LAYOUT & DIMENSIONS

DRAWN BY:	BTH	DATE:	02MAR10
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	3/4"=12"	PROJECT MANAGER:	GB

PROJECT NUMBER:
25-183

SHEET NUMBER:
MU710-1

01
M710 M710
Glass layout and dimensions
Scale: 3/4"=12"

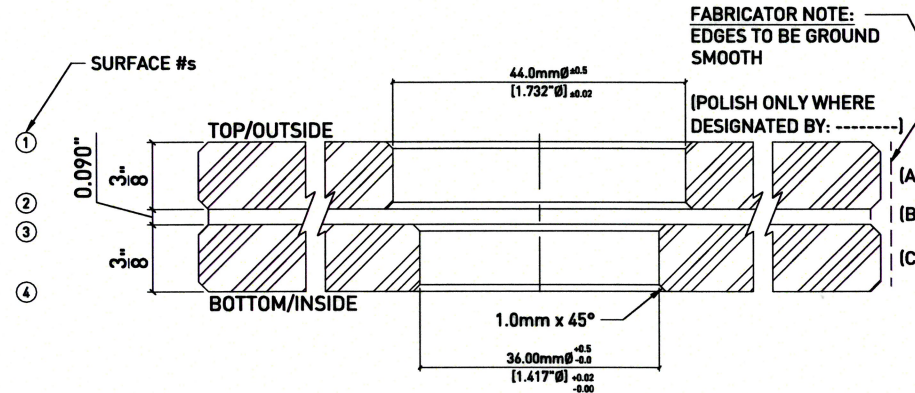
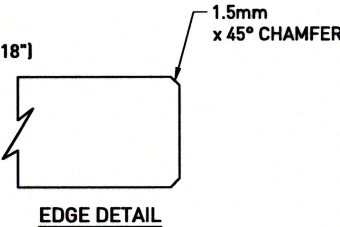
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GLASS SPECIFICATION:

- (A.): 3/8" CLEAR OUTER LITE - FULLY TEMPERED, OPTIONAL DOT FRIT OR LINE FRIT ON SURFACE #2, MAXIMUM 50% COVERAGE
- (B.): 0.090" CLEAR OR WHITE Kuraray SentryGlas Interlayer by Kuraray America, Inc. PER NOA NO. 23-0717.30
- (C.): 3/8" CLEAR INNER LITE - FULLY TEMPERED
- ALL GLASS PANELS WITH CHAMFERED AND GROUND EDGES AND (3) THREE OR (4) FOUR DRILLED HOLES

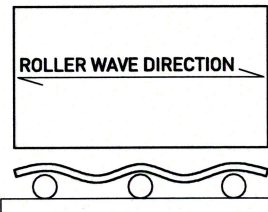
TOLERANCES:

- ±1.5mm (±0.06") FOR WIDTH AND LENGTH FOR GLASS DIMENSIONS LESS THAN 1500mm [59"]
- ±2.0mm (±0.08") FOR WIDTH AND LENGTH FOR GLASS DIMENSIONS BETWEEN 1500mm [59"] AND 3000mm [118"]
- ±2.0mm (±0.08") FOR DIAGONALS FOR GLASS DIMENSIONS LESS THAN 1500mm [59"]
- ±3.0mm (±0.12") FOR DIAGONALS FOR GLASS DIMENSIONS BETWEEN 1500mm [59"] AND 3000mm [118"]
- TOTAL LAMINATED GLASS THICKNESS: ±0.5mm (±0.02")
- LAMINATION ALIGNMENT: ±1.5mm (±0.06")
- LOCATION OF HOLES: ±2.0mm (±0.08")
- (INCLUSIVE OF ALL OTHER LAMINATION AND DIMENSIONAL TOLERANCES)
- REFER TO NOVUM MANUFACTURING SPECIFICATION NS105 FOR TOLERANCE AND MANUFACTURING REQUIREMENTS



22.0mm (0.813") LAMINATED GLASS

SEE EACH GLASS FABRICATION DRAWING FOR ACTUAL ORIENTATION OF ROLLER WAVE

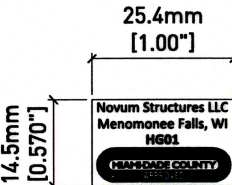


*NOTE: NOT TO EXCEED MAX. OVEN WIDTH

OVEN, REF.

FABRICATOR NOTE: EDGES TO BE GROUND SMOOTH

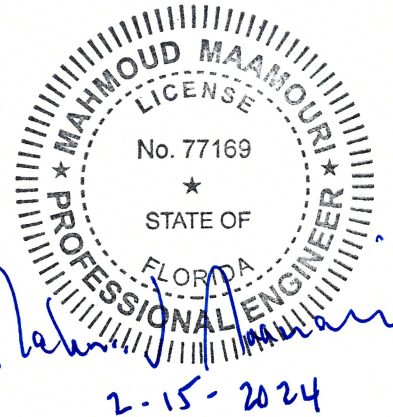
(POLISH ONLY WHERE DESIGNATED BY: -----)



PLACEMENT OF NOVUM NOA LABEL JUST ABOVE TEMPERING NOTE (SEE ABOVE FOR ACTUAL NOTE, TEXT, AND DIMENSION)

GLASS PANELS SEEN FROM ABOVE/ OUTSIDE

NOTE: PLEASE MAKE SURE PLACEMENT OF TEMPERING NOTE SHALL BE VISIBLE AND WILL NOT INTERFERE WITH THE LAMINATION PROCESS



PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **24-0102.03**
Expiration Date: **08/25/2026**
By: *Manuel Perez*
Miami-Dade Product Control

COMPUTERIZED STRUCTURAL DESIGN, INC.
8989 North Port Washington Road
Milwaukee, WI 53217
(414) 351-5588
ES-0001982
MAHMOUD MAAMOURI
PE # 77169

ENGINEER STAMP:

APPROVAL STAMP:

NOVUM STAMP:

3	03NOV23	FAR	FP
UPDATED S6 NOA # & ADDED FRIT			
2	21OCT20	ZJM	SWK
UPDATED S6P NOA NO.			
1	22JUL11	BTH	SWK
REVISED PER COMMENTS BY BCCO			
REV. NO.	DATE	DWG. BY	CHK. BY

Novum Structures LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5541
www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
GLASS MAKE- UP SHEET

DRAWN BY:	BTH	DATE:	22JUL11
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	NONE	PROJECT MANAGER:	GB
PROJECT NUMBER:	25-183		

SHEET NUMBER:
MU800-3

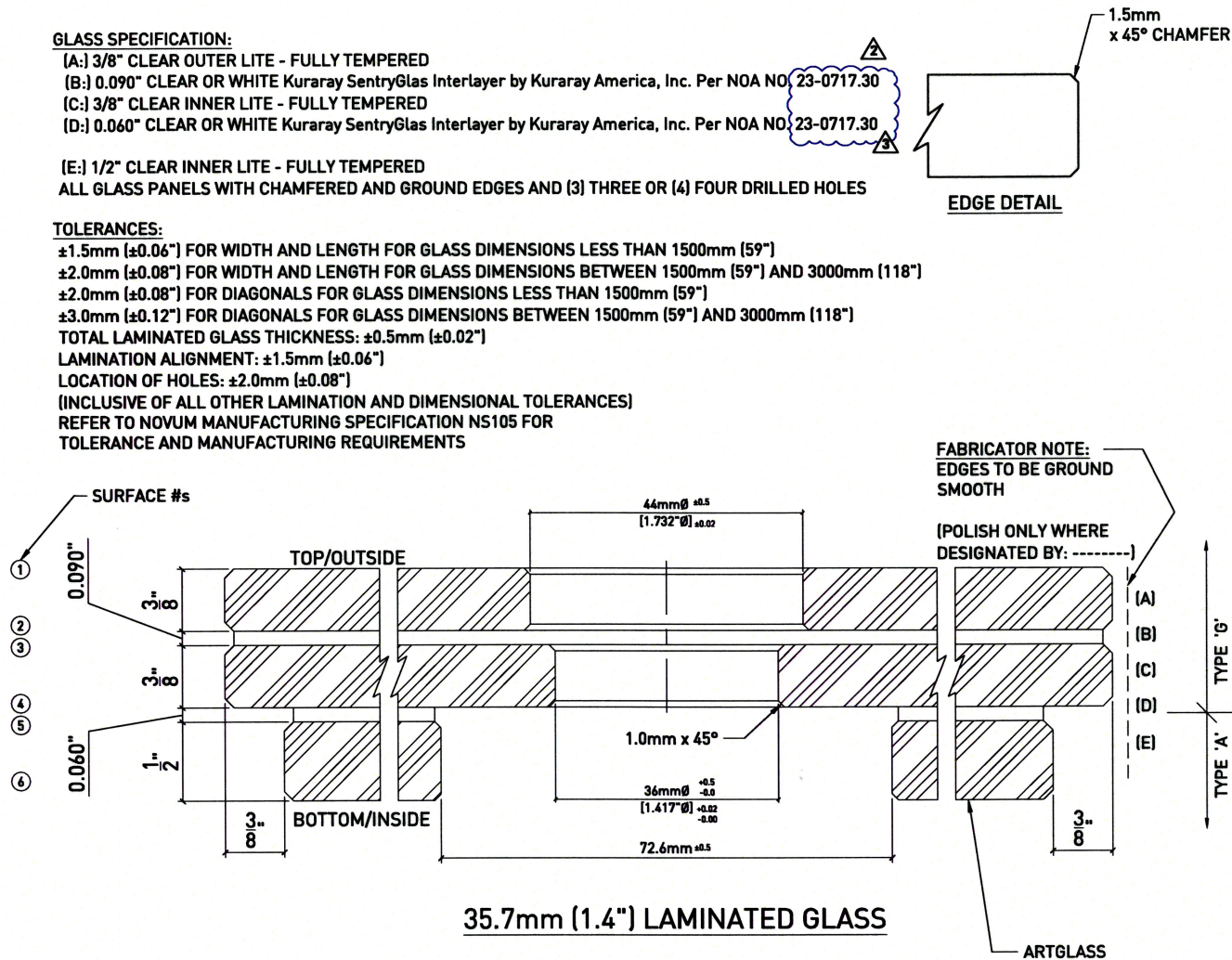
GLASS SPECIFICATION:

- [A:] 3/8" CLEAR OUTER LITE - FULLY TEMPERED
[B:] 0.090" CLEAR OR WHITE Kuraray SentryGlas Interlayer by Kuraray America, Inc. Per NOA NO. 23-0717.30
[C:] 3/8" CLEAR INNER LITE - FULLY TEMPERED
[D:] 0.060" CLEAR OR WHITE Kuraray SentryGlas Interlayer by Kuraray America, Inc. Per NOA NO. 23-0717.30

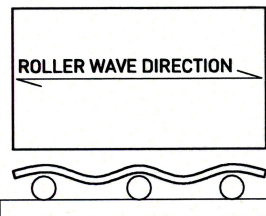
[E:] 1/2" CLEAR INNER LITE - FULLY TEMPERED
ALL GLASS PANELS WITH CHAMFERED AND GROUND EDGES AND (3) THREE OR (4) FOUR DRILLED HOLES

TOLERANCES:

±1.5mm (±0.06") FOR WIDTH AND LENGTH FOR GLASS DIMENSIONS LESS THAN 1500mm [59"]
±2.0mm (±0.08") FOR WIDTH AND LENGTH FOR GLASS DIMENSIONS BETWEEN 1500mm [59"] AND 3000mm [118"]
±2.0mm (±0.08") FOR DIAGONALS FOR GLASS DIMENSIONS LESS THAN 1500mm [59"]
±3.0mm (±0.12") FOR DIAGONALS FOR GLASS DIMENSIONS BETWEEN 1500mm [59"] AND 3000mm [118"]
TOTAL LAMINATED GLASS THICKNESS: ±0.5mm (±0.02")
LAMINATION ALIGNMENT: ±1.5mm (±0.06")
LOCATION OF HOLES: ±2.0mm (±0.08")
(INCLUSIVE OF ALL OTHER LAMINATION AND DIMENSIONAL TOLERANCES)
REFER TO NOVUM MANUFACTURING SPECIFICATION NS105 FOR TOLERANCE AND MANUFACTURING REQUIREMENTS



SEE EACH GLASS FABRICATION DRAWING FOR ACTUAL ORIENTATION OF ROLLER WAVE



*NOTE:
NOT TO EXCEED
MAX. OVEN WIDTH

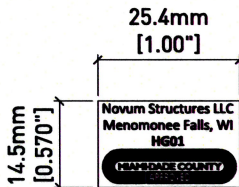
* MAXIMUM OVEN WIDTHS:
FOR LAMINATED AND TEMPERED = 1680mm
FOR MONOLITHIC TEMPERED AND TEMPERED IGU WITHOUT LAMINATION = 2420mm
GLASS WIDTHS SHOULD REMAIN BELOW 1.65m AND 2.35m RESPECTIVELY

EDGE DETAIL

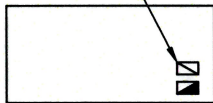
FABRICATOR NOTE:
EDGES TO BE GROUND
SMOOTH

(POLISH ONLY WHERE
DESIGNATED BY: -----)

ARTGLASS

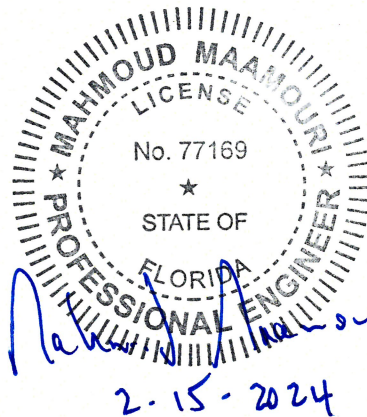


PLACEMENT OF
NOVUM NOA LABEL JUST
ABOVE TEMPERING NOTE
(SEE ABOVE FOR ACTUAL
NOTE, TEXT, AND DIMENSION)



GLASS PANELS SEEN FROM ABOVE/ OUTSIDE

NOTE: PLEASE MAKE SURE PLACEMENT OF
TEMPERING NOTE SHALL BE VISIBLE AND
WILL NOT INTERFERE WITH THE
LAMINATION PROCESS



PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **24-0102.03**
Expiration Date: **08/25/2026**
By: *Manuel Perez*
Miami-Dade Product Control

COMPUTERIZED STRUCTURAL
DESIGN, INC.
8989 North Port Washington Road
Milwaukee, WI 53217
(414) 351-5588
E8-0001982
MAHMOUD MAAMOURI
PE # 77169

ENGINEER STAMP:

APPROVAL STAMP:

NOVUM STAMP:

3	03NOV23	FAR	FP
UPDATED SG NOA #			
2	21OCT20	ZJM	SWK
UPDATED SGP NOA NO.			
22JUL11	BTH	SWK	
REVISED PER COMMENTS BY BCCO			
REV. NO.	DATE	DWG. BY	CHK. BY

Novum Structures LLC
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Menomonee Falls, WI 53051 USA
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www.novumstructures.com
info@novumstructures.com

NOVUM

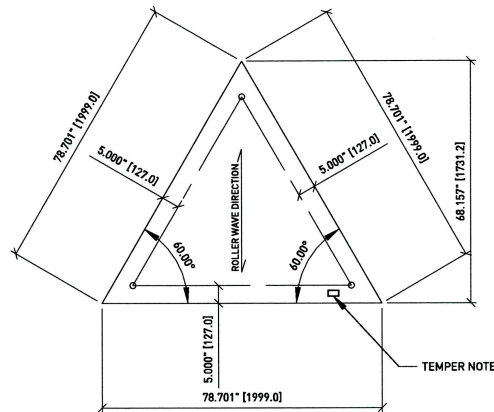
PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

REVISION DESCRIPTION:
GLASS MAKE- UP SHEET

DRAWN BY:	BTH	DATE:	22JUL11
CHECKED BY:	SWK	APPROVED BY:	SWK
SCALE:	NONE	PROJECT MANAGER:	GB
PROJECT NUMBER:			

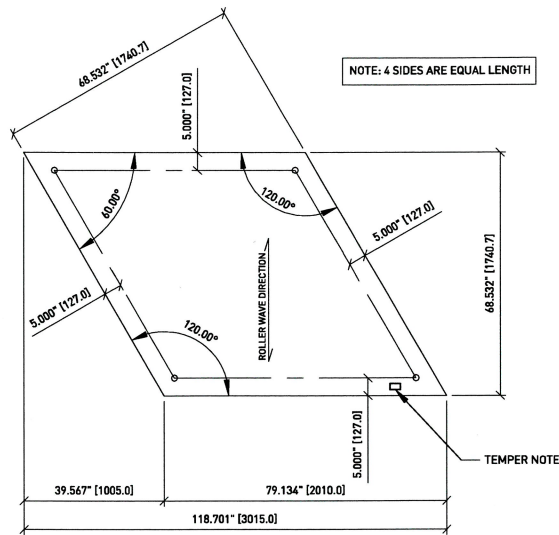
25-183

SHEET NUMBER:
MU801-3



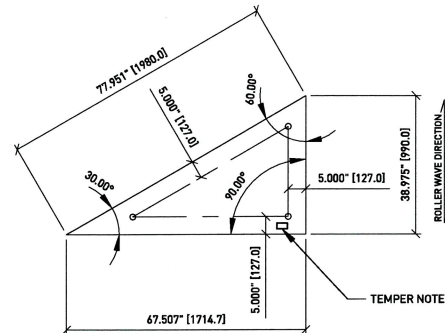
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GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS

G1.1



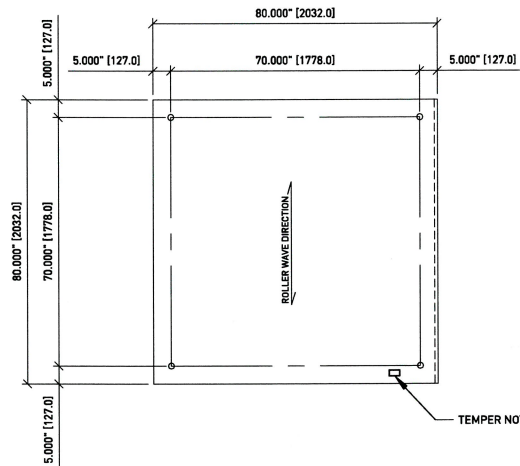
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GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS

G1.2



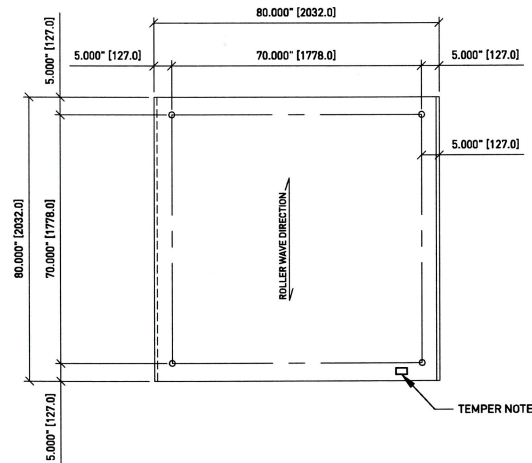
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GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS

G1.3



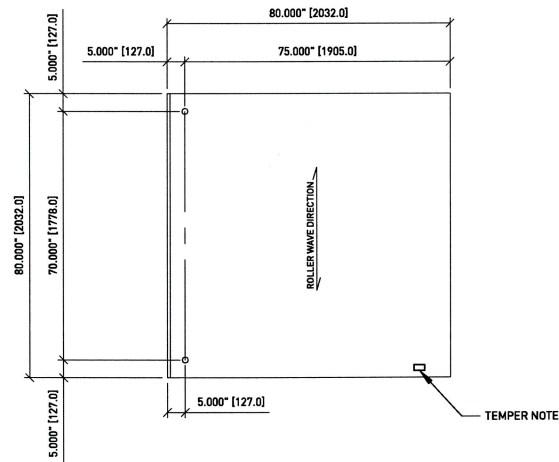
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GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS

G1.4



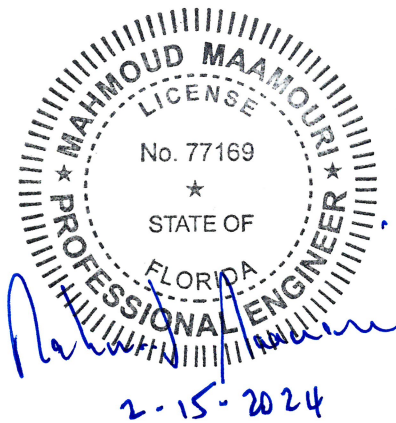
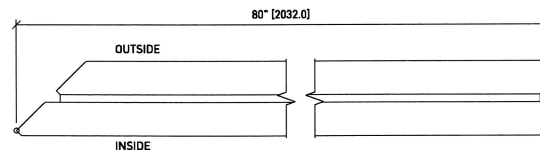
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GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS

G1.5



QUANTITY REQ'D= 3
GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU800 FOR GLASS MAKE-UP
AND HOLE DETAILS

G1.6



PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **24-0102.03**
Expiration Date: **08/25/2026**
By: *Manuel Perez*
Miami-Dade Product Control

COMPUTERIZED STRUCTURAL
DESIGN, INC.
8989 North Port Washington Road
Milwaukee, WI 53217
(414) 351-5588
EB-0001882
MAHMOUD MAAMOURI
PE # 77169

ENGINEER STAMP:

APPROVAL STAMP:

NOVUM STAMP:

22JUL11 BTH SWK
REVISED PER COMMENTS BY BCCO

REV. NO.	DATE	DWG. BY	CHK. BY

Novum Structures LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5561
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info@novumstructures.com

NOVUM

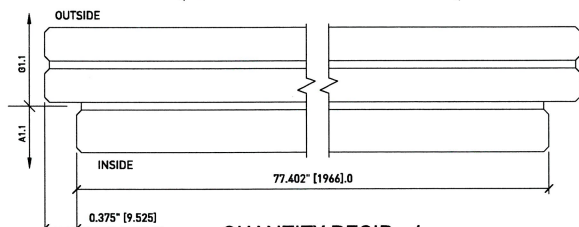
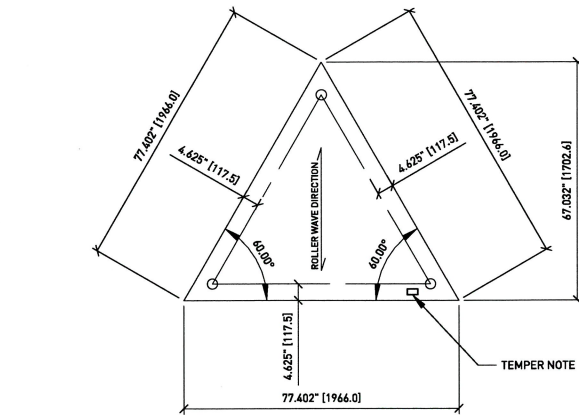
PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
GLAS DETAILS
NON- ART GLASS

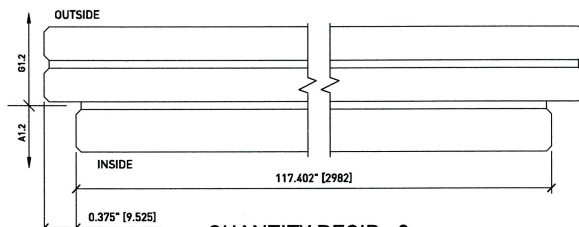
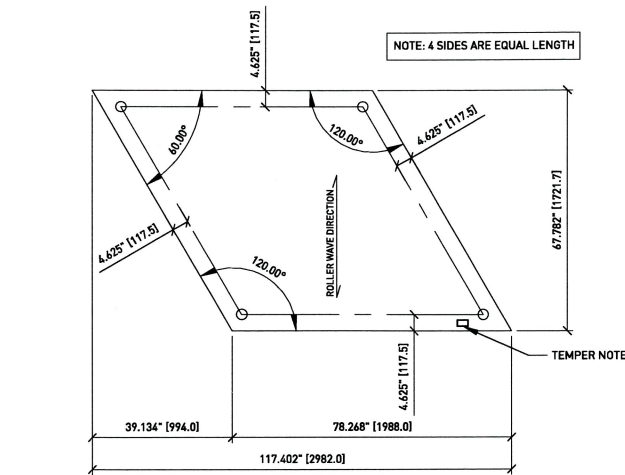
DRAWN BY:	DATE:
BTH	22JUL11
CHECKED BY:	APPROVED BY:
SWK	SWK
SCALE:	PROJECT MANAGER:
NONE	GB

PROJECT NUMBER:
25-183

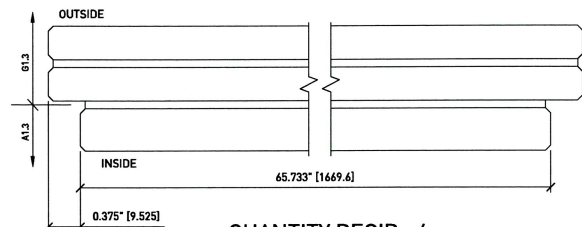
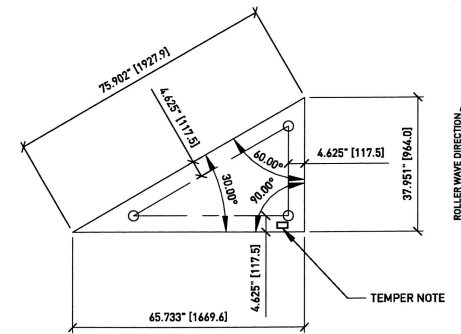
SHEET NUMBER:
MU802-1



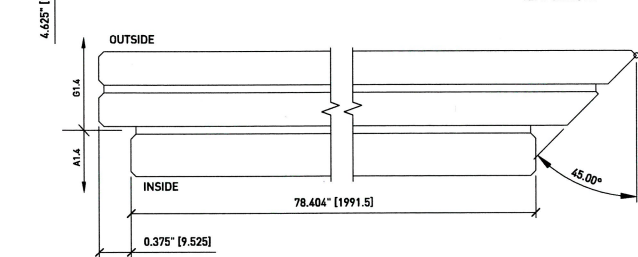
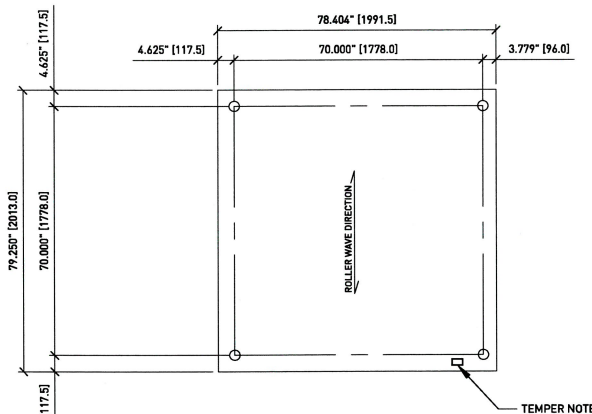
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GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU801 FOR GLASS MAKE-UP
AND HOLE DETAILS
G2.1



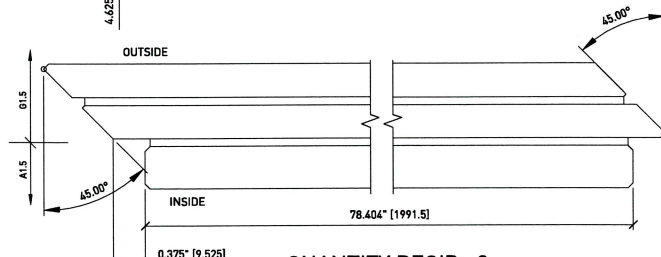
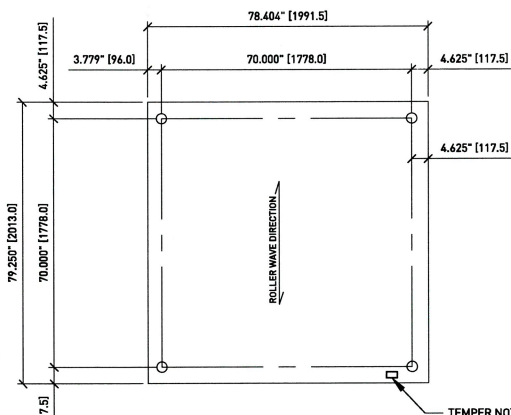
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REF. SHEET MU801 FOR GLASS MAKE-UP
AND HOLE DETAILS
G2.2



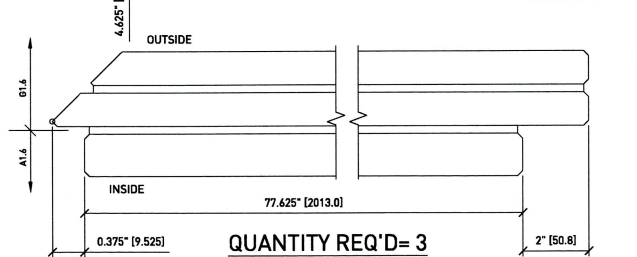
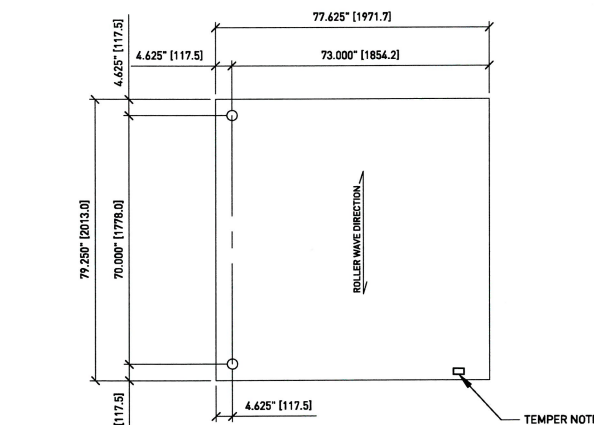
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GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU801 FOR GLASS MAKE-UP
AND HOLE DETAILS
G2.3



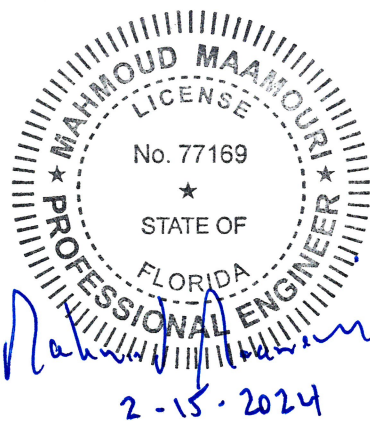
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GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU801 FOR GLASS MAKE-UP
AND HOLE DETAILS
G2.4



QUANTITY REQ'D= 3
GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU801 FOR GLASS MAKE-UP
AND HOLE DETAILS
G2.5



QUANTITY REQ'D= 3
GLASS PANELS SEEN FROM ABOVE/OUTSIDE.
REF. SHEET MU801 FOR GLASS MAKE-UP
AND HOLE DETAILS
G2.6



PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **24-0102.03**
Expiration Date: **08/25/2026**
By: *Manuel Perez*
Miami-Dade Product Control

COMPUTERIZED STRUCTURAL
DESIGN, INC.
8969 North Port Washington Road
Milwaukee, WI 53217
(414) 351-5588
EB-0001982
MAHMOUD MAAMOURI
P.E. # 77169

ENGINEER STAMP:

APPROVAL STAMP:

NOVUM STAMP:

23JUL11 BTH SWK
REVISED PER COMMENTS BY BCCO

REV. NO. DATE DWG. BY CHK. BY

Novum Structures LLC
W126 N8585 Westbrook Crossing
Menomonee Falls, WI 53051 USA
T 262.255.5561
www.novumstructures.com
info@novumstructures.com

NOVUM

PROJECT:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWING DESCRIPTION:
GLAS DETAILS
ART GLASS

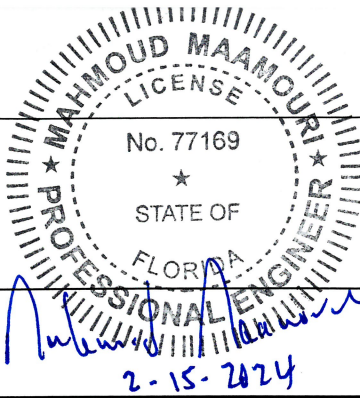
DRAWN BY: BTH DATE: 22JUL11

CHECKED BY: SWK APPROVED BY: SWK

SCALE: NONE PROJECT MANAGER: GB

PROJECT NUMBER: 25-183

SHEET NUMBER:
MU803-1



NOVUM

Bill of Material					Project			Project No.		BoM Rev.No.	Rev. Date:	Rev. By:	Desc. / Rev. Dwg.			
					NOA HG01 BOM			25-183								
					Description			BoM Number								
					VERTICAL WALL SYSTEM			MU804								
Fab No.	Component No.	Revision		Quantity	Description	Unit: Inches (U.N.O.)		Material	Standard / Finish	Weight Unit: Pounds		Painting Area		Production Component Type	Remarks	Release Date
		Dwg	BoM			Width	Length			Piece	Total	Piece	Total			
HA600					HARDWARE & ACCESSORIES											
					Dow Corning #795 Silicone - Black											
					1/4-20 UNC Hex Head Bolt, 0.875"		0.875	GR.5	ZP							
					1/4-20 UNC Hex Nut			GR.5	ZP							
					1/4 Flat Washer - 0.281" ID, 0.625" OD, 0.09" Thick			GR.5	ZP							
	TR-336E				Arrow-shim Extrusion - Black				Black							
	GP75-26				Silicone Extrusion			70 DURO SHORE A	Black							
	GP75-36				Silicone Extrusion			70 DURO SHORE A	Black							
RB22-16					Buttonhead Rotule											
	RB22A				BUTTONHEAD ROTULE ASSEMBLY:											
					BUTTONHEAD 20mm DIA. BALL JOINT HEAD			316 SS								
	RTR16-SS				M16x75 THREADED ROD W/ 20mm DIA. BALL JOINT HEAD			316 SS								
	RGW-SR				GLASS CONTACT WASHER			SILICONE SHORE A 60 HARDNESS	BLACK							
	RTR-SR				ROTULE TIGHTENING RING			316 SS								
	M16LJN-A4				M16 LOW HEXAGON JAM NUT			DIN 936-A4								
	RSB13-AL				ROTULE SLEEVE FOR BUTTON HEAD ROTULE, 13mm LONG			6063-0 ALUM								
	M16LJN-A4				M16 LOW HEXAGON JAM NUT			DIN 936-A4								
	RW16-SS				STAINLESS STEEL WASHER FOR 16mm THREADED ROD			316 SS								
	RW16-TP				TEFLON WASHER (SEE INSTALLATION INSTRUCTIONS)			PTFE (TEFLON)								
					CHANNEL				PR-FC							
					PLATE 0.188	TBD	121.000	5052-H32 AL								
					CHANNEL SPLICE STRIP				PR-FC							
					PLATE 20GA	TBD	2.000	5052-H32 AL								
Originator		Date		Abbreviation Key				Finish Code Key				Fab / Component Type Key				
TJQ		19 May 10		TYP. = Typical SIM. = Similar G.F. = Grind Flush G.S. = Grind Smooth				O.D. = Outer Diameter I.D. = Inner Diameter T.B.D. = To Be Determined U.N.O. = Unless Noted Otherwise				ZP = Zinc Plated HDG = Hot Dip Galvanized R = Raw or Bare or No Finish FC = Unspecified Finish Coat FC-L = Liquid Finish Coat FC-P = Powder Finish Coat PR = Primed AA = Anodized Aluminum				
												SC = Subcomponents (Plate, Clip) PRO = Profiles H = Hardware A = Accessories G = Glass				
												N = Nodes B = Bearing Points E = Embeds SW = AES/BB Steelwork SF = Space Frame				

PROFESSIONAL ENGINEER

2-15-2024

NOVUM

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 24-0102.03
Expiration Date: 08/25/2026
By: Manuel Perez
Miami-Dade Product Control

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MAHMOUD MAAMOURI
PE. # 77169

ENGINEER STAMP:

APPROVAL STAMP:

NOVUM STAMP:

2AUG11

BTH

SWK

REVISED PER COMMENTS BY BCCO

REV.NO.

DATE

DWG.BY

CHK.BY

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NOVUM

DRAWING DESCRIPTION:
NOVUM'S HURRICANE PSG
GLASS SYSTEM: HG01
VERTICAL WALL SYSTEM

DRAWN BY: BTH
CHECKED BY: SWK
SCALE: NONE
PROJECT NUMBER: 25-183
SHEET NUMBER: MU804-1