



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

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

## NOTICE OF ACCEPTANCE (NOA)

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

N.R. Architectural Products, Inc.  
4348 Westroads Drive  
West Palm Beach, Florida 33407

### SCOPE:

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

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

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

### DESCRIPTION: Straight Postless Glass Railing System

**APPROVAL DOCUMENT:** Drawing No. AD16-32, titled "Straight Postless Glass Railing W/ Laminated Glass", sheets 1 through 5 of 5, prepared by MCY Engineering, Inc., dated May 04, 2023, signed and sealed by Yiping Wang, P.E., on May 05, 2023, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the 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. The structural adequacy of the supporting structures is not part of this approval & shall be reviewed by the corresponding Building Dept.

This NOA **revises and renews** NOA #16-1020.06 and consists of this page 1, evidence submitted pages E-1 and E-2 as well as approval document mentioned above.

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



*H. A. Makar*  
06/22/2023

NOA No. 23-0511.04  
Expiration Date: 06/22/2028  
Approval Date: 06/22/2023  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #16-1020.06**

**A. DRAWINGS**

1. Drawing No. AD16-32, titled "***Straight Postless Glass Railing W/ Laminated Glass***", sheets 1 through 5 of 5, prepared by MCY Engineering, Inc., dated September 30, 2016, signed and sealed by Yiping Wang, P.E., on July 26, 2017.

**B. TESTS**

1. Test Report No. **BT-NR-17-002A**, by Blackwater Testing, Inc., dated 06/30/2017, signed & sealed by Constantin Bortes, P.E., testing Straight Postless Glass Railing for concentrated and distributed loads per FBC 1618.4.6, Impacts per ANSI Z97.1, Large and Small Missile Impact TAS 201-94, Static Wind Load per TAS 202-94.

**C. CALCULATIONS**

1. Calculation titled " Postless Straight Glass Railing w/Laminated Glass – Large and Small Missile Impact ", 60 sheets, dated May 02, 2017, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E., on May 09, 2017.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. AD16-32, titled "***Straight Postless Glass Railing W/ Laminated Glass***", sheets 1 through 5 of 5, prepared by MCY Engineering, Inc., dated May 04, 2023, signed and sealed by Yiping Wang, P.E., on May 05, 2023.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. Calculation titled " Postless Straight Glass Railing w/Laminated Glass – Large and Small Missile Impact ", 60 sheets, dated May 05, 2023, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E., on May 05, 2023.



Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 23-0511.04  
Expiration Date: 06/22/2028  
Approval Date: 06/22/2023

**N.R. Architectural Products, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

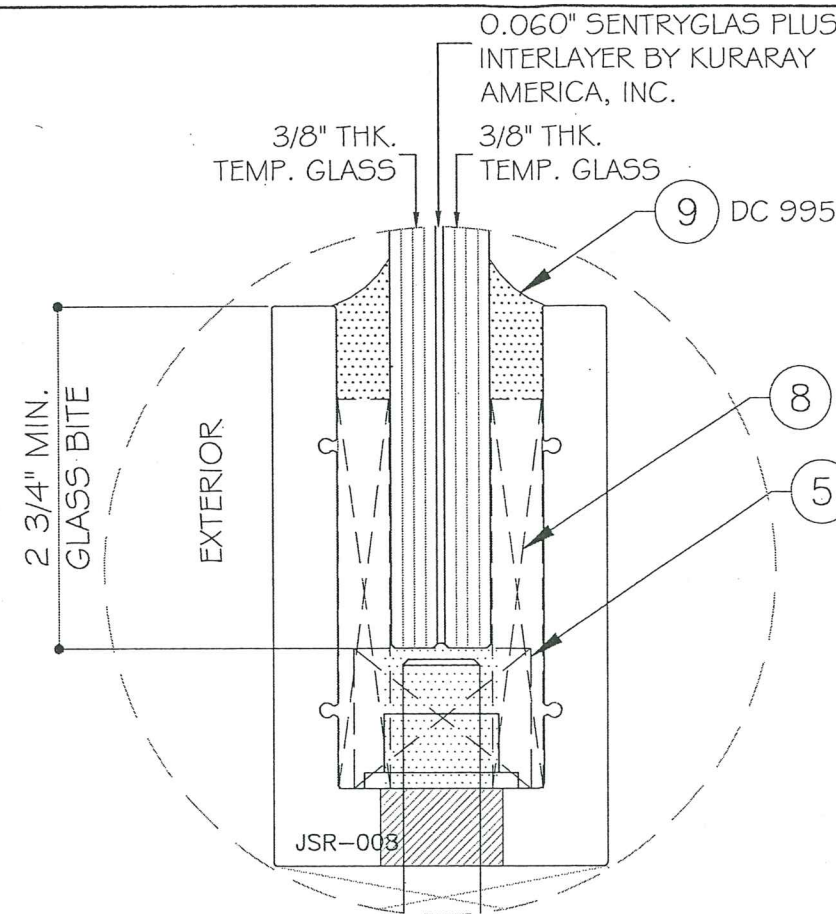
*1. None.*



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**GL-1**  
 LARGE MISSILE IMPACT  
 1 3/16" NOMINAL OVERALL  
 LAMINATED GLASS

NOTE:  
 GLASS COMPLIES WITH ASTM E1300-09  
 (3 SEC. GUSTS).

## STRAIGHT POSTLESS GLASS RAILING W/ LAMINATED GLASS

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- PRODUCT IS RATED FOR LARGE AND SMALL MISSILE IMPACT.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- METAL STRUCTURES NOT BY N.R. ARCHITECTURAL PRODUCTS, INC. MUST SUPPORT LOADS IMPOSED BY RAILING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020) SECTION AS APPLICABLE.
- THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS. ULTIMATE DESIGN LOAD OBTAINED FROM ASCE 7-16, MULTIPLY BY 0.6, SHALL BE LESS THAN OR EQUAL TO MAX. ALLOWABLE DESIGN LOAD IN THIS DOCUMENT.

INSTRUCTIONS:  
 USE CHARTS AS FOLLOWS

**STEP 1:** DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

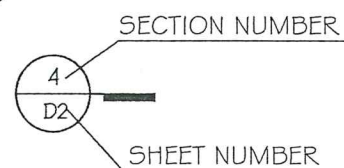
**STEP 2:** SEE SHEET E1 FOR APPROVED RAILING LOAD BASED ON APPLICABLE WINDOW DURATION.

**STEP 3:** SEE SHEET D1 FOR CAPACITY DUE TO ANCHORS WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

**STEP 4:** THE LOWEST VALUE RESULTING FROM STEPS 2 & 3 SHALL APPLY TO ENTIRE SYSTEM.

### ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING  
 LG. - LONG  
 O.C. - ON CENTER  
 TEMP. - TEMPERED  
 THK. - THICKNESS  
 W/ - WITH  
 W/O - WITHOUT

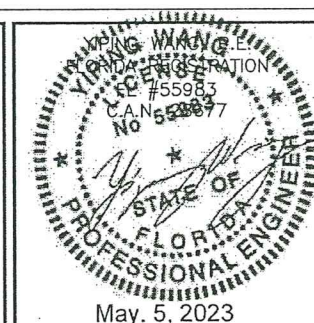


PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
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 Expiration Date 06/22/2028  
 By H. G. P. Miller  
 Miami Dade Product Control

TESTED WITH ANSI Z97.1

LARGE AND SMALL MISSILE IMPACT

MIAMI-DADE COUNTY



COVER

DATE 05/04/23  
 SCALE AS SHOWN  
 DRAWN james  
 PROJECT 23-077

DRAWING NO.  
 AD16-32

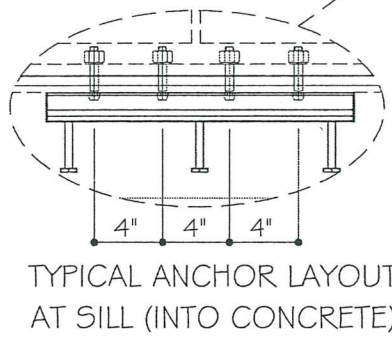
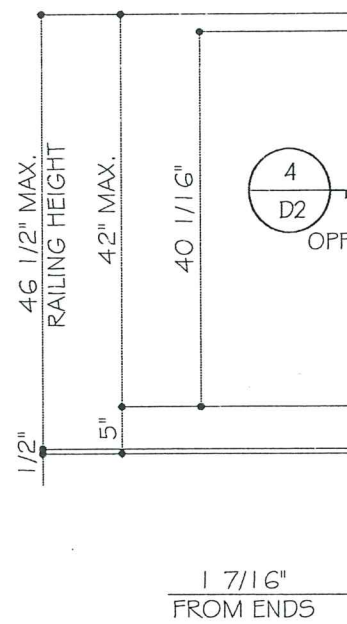
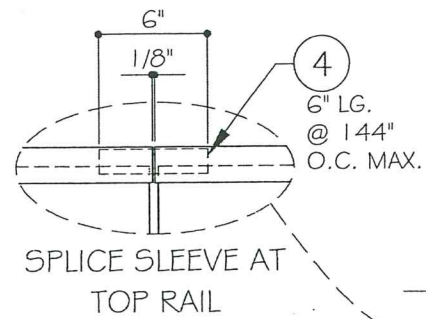
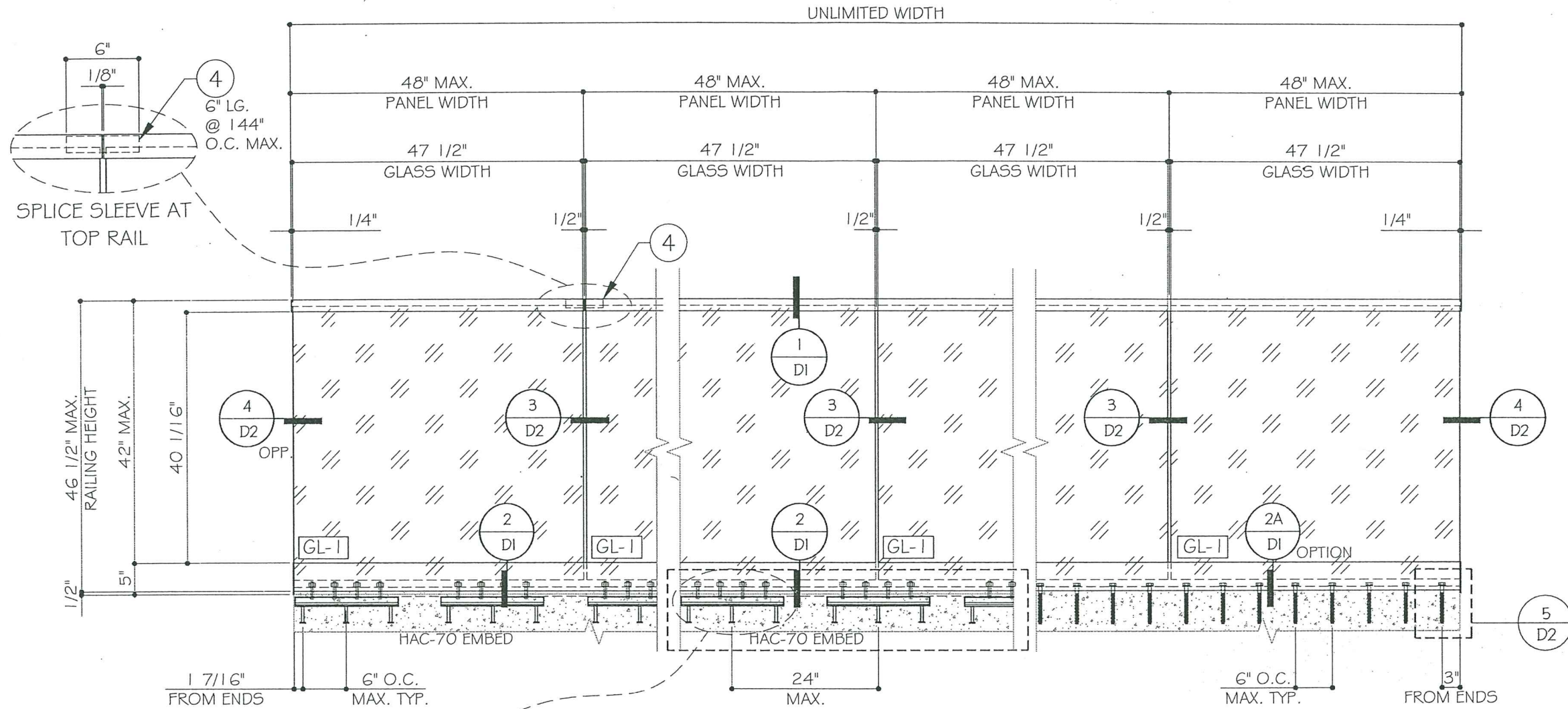
1 OF 5

STRAIGHT POSTLESS GLASS RAILING W/ LAMINATED GLASS - LMI & SMI  
 N.R. ARCHITECTURAL PRODUCTS, INC.  
 4348 WESTROADS DRIVE  
 RIVIERA BEACH, FL 33407  
 TEL: (561) 844-1121 FAX: (561) 844-6131

MCY ENGINEERING, INC.  
 GLAZING CONSULTANTS  
 12781 MIRAMAR PARKWAY #301 P: 305.271 0117  
 MIRAMAR FL 33027 F: 305.568 5224  
 www.MCYEngineering.com MCY@mcyengineering.com

NO.	DATE	DESCRIPTION
1.	05.04.23	RENEWAL





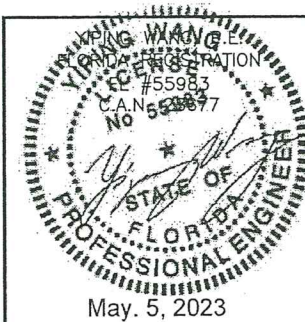
TYPICAL EXTERIOR ELEVATIONS

MAX. ALLOWABLE DESIGN LOAD (FOR SIZES SHOWN ABOVE OR SMALLER) AS PERMITTED BY FBC
+126.0 PSF
-126.0 PSF

SEE SHEET D1 FOR CAPACITY  
DUE TO ANCHORS.

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By *Heidi A. Miller*  
Miami Data Product Control

MIAMI-DADE COUNTY



NO.	DATE	DESCRIPTION
1.	05.04.23	RENEWAL

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E1	
DATE	05/04/23
SCALE	AS SHOWN
DRAWN	james
PROJECT	23-077
DRAWING NO. AD16-32	
2 OF 5	



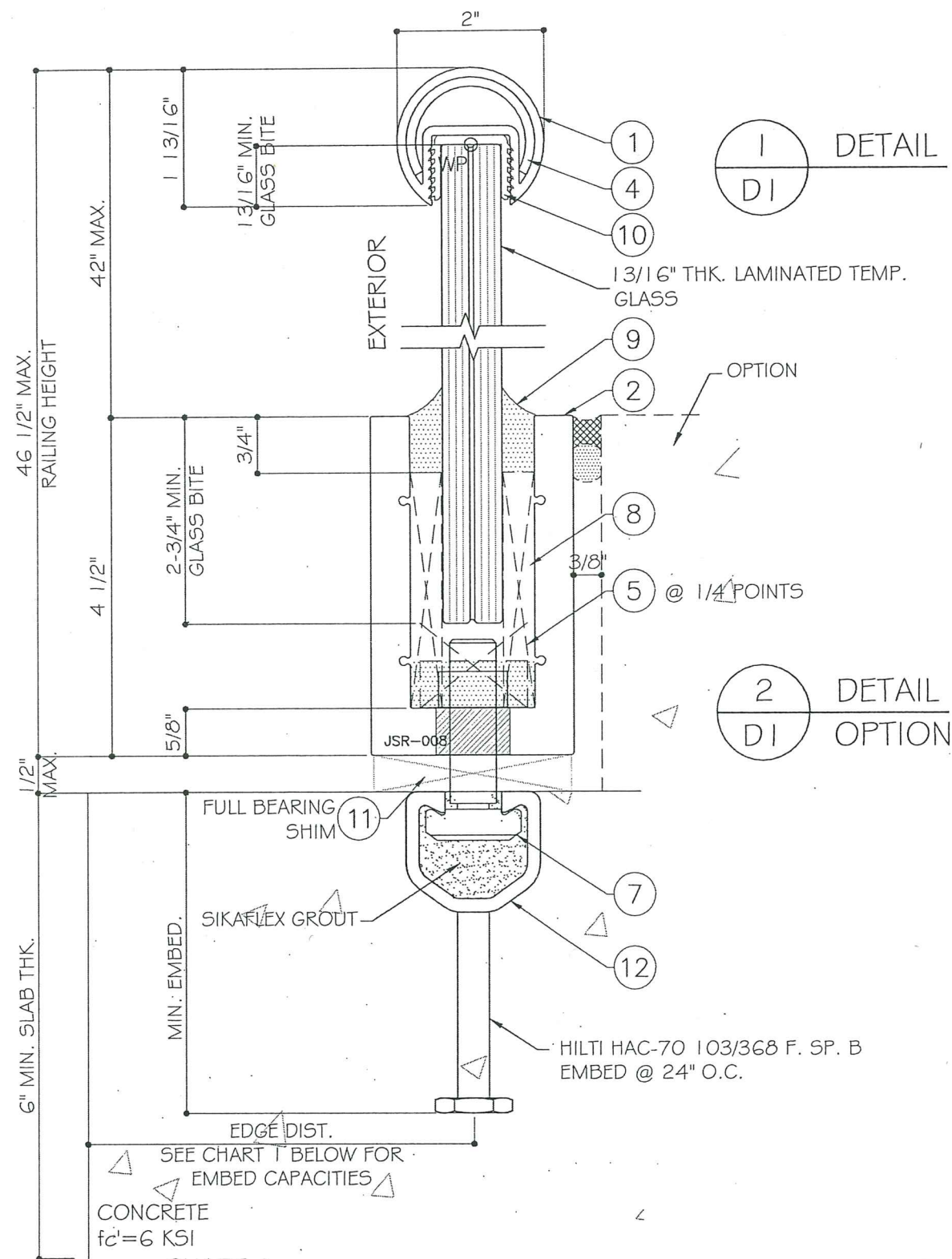
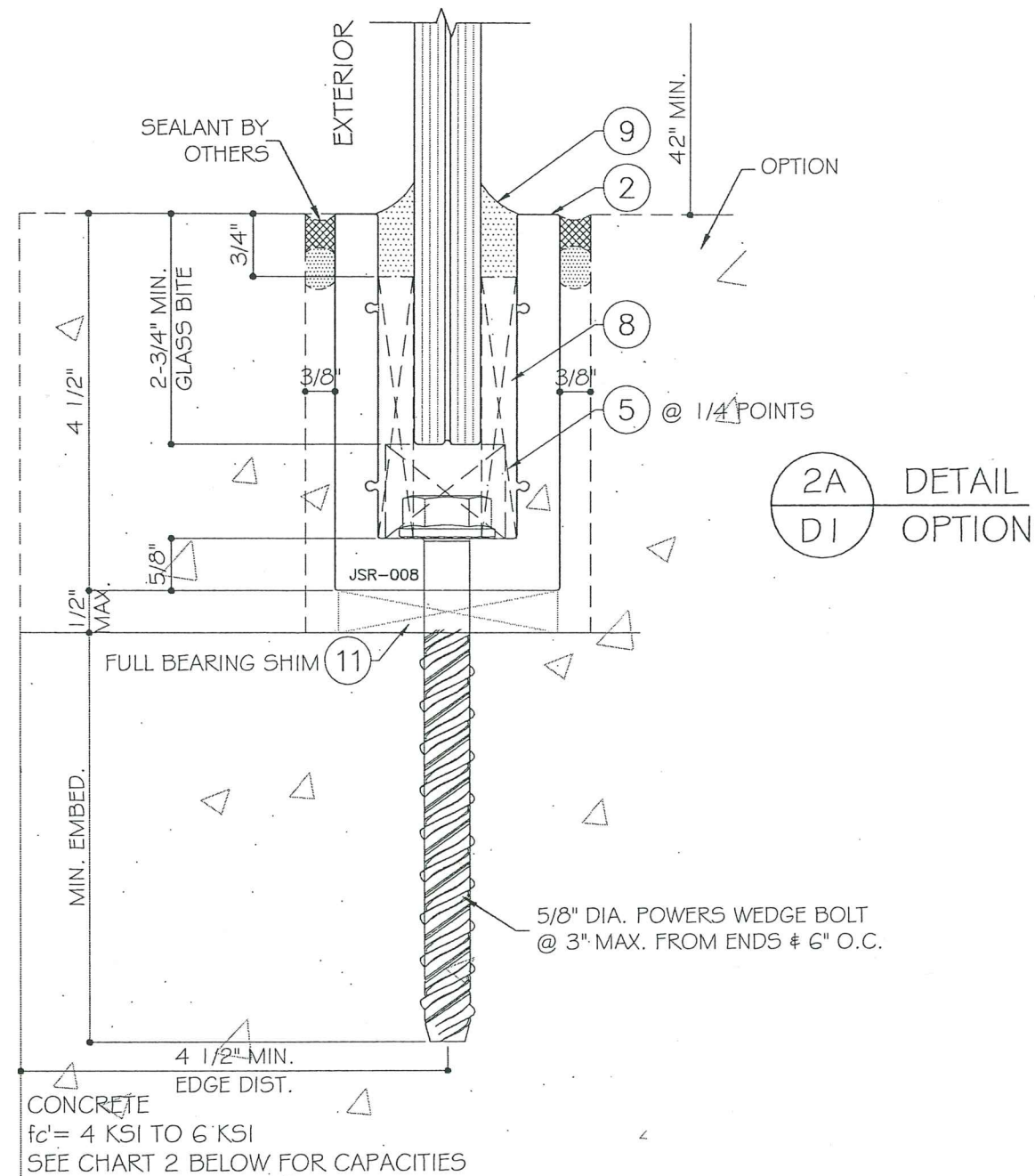


CHART 1

HAC-70 103/368 F SP. B EMBED @ 24" O.C.		
EDGE DIST.	CONCRETE $f_c$	ALLOWABLE LOAD (PSF)
5"	6 KSI	101.5
5 1/2"	6 KSI	108.5
6"	6 KSI	115.7
6 1/2"	6 KSI	122.4



-TYPICAL ANCHORS:

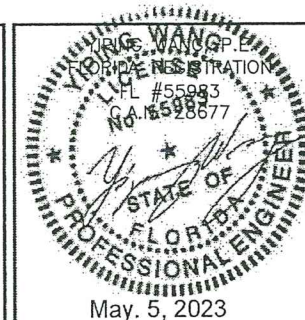
- A) 5/8" DIA. WEDGE BOLTS BY 'POWERS' ( $F_u = 120$  KSI,  $F_y = 92$  KSI)  
 4 1/2" OR 4 3/4" MIN. EMBED DIRECTLY INTO CONCRETE  
 4 1/2" MIN. EDGE DISTANCE

CHART 2

5/8" DIA. POWERS WEDGE BOLTS @ 6" O.C. W/ 4-1/2" MIN. EDGE DIST.		
ANCHOR EMBED	CONCRETE $f_c$	ALLOWABLE LOAD (PSF)
4 1/2"	4 KSI	102
	5 KSI	110.3
	6 KSI	114.8
4 3/4"	4 KSI	110.3
	5 KSI	117.4
	6 KSI	124.4

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MIAMI-DADE COUNTY



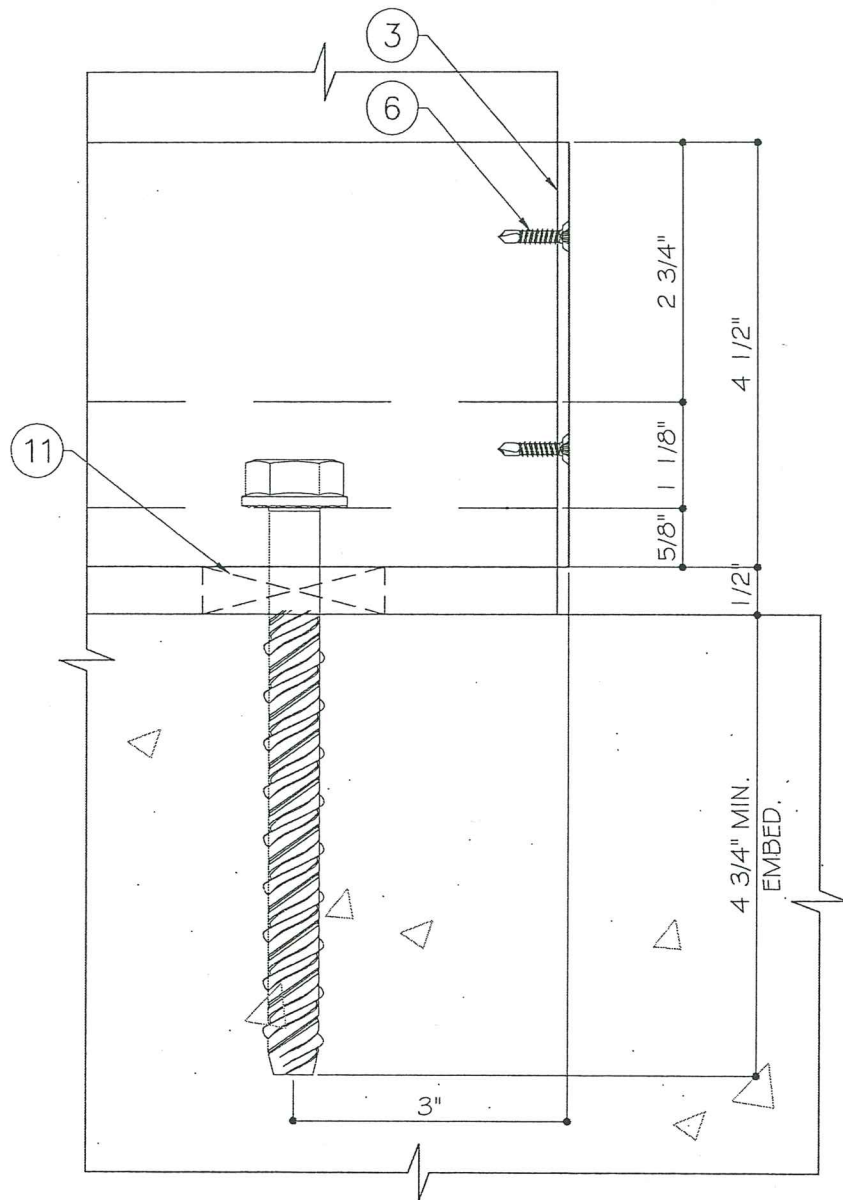
NO.	DATE	DESCRIPTION
1	05.04.23	RENEVAL

**MCY ENGINEERING, INC.**  
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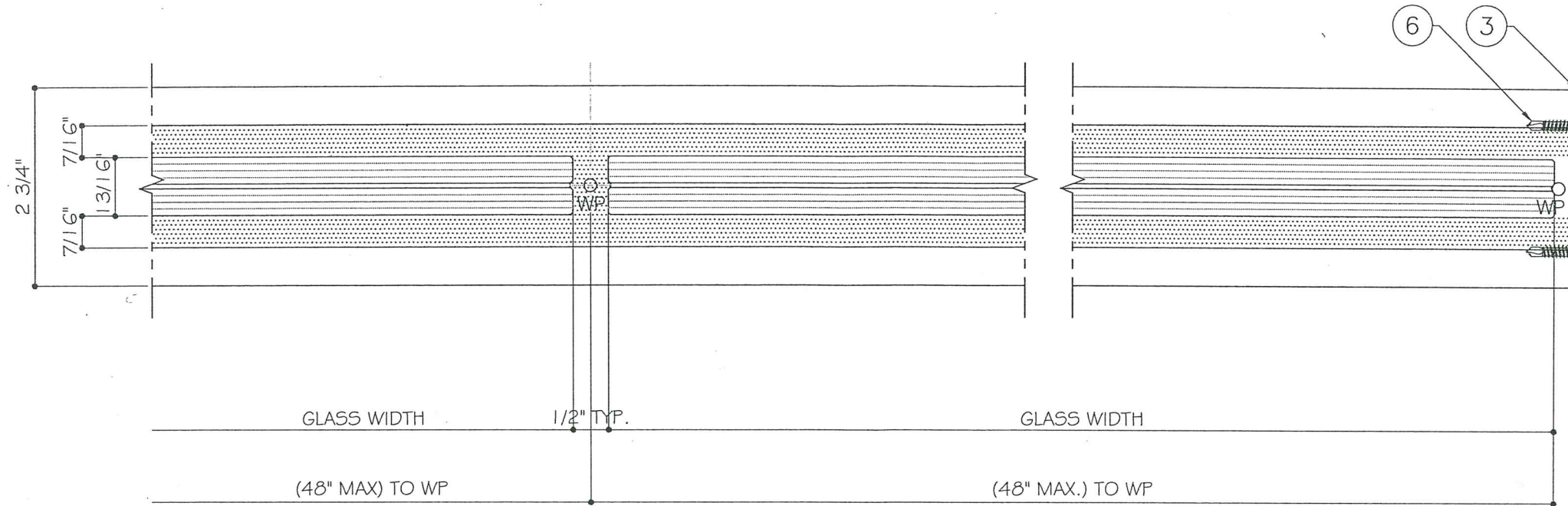
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D1	
DATE	05/04/23
SCALE	AS SHOWN
DRAWN	james
PROJECT	23-077
DRAWING NO. AD16-32	
3 OF 5	





5  
D2  
DETAIL

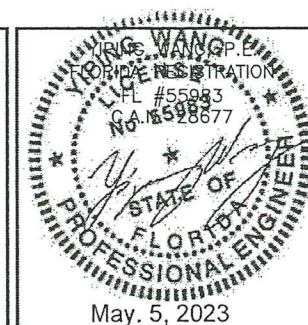


3  
D2  
DETAIL

4  
D2  
DETAIL

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Miami Date Product Control

MIAMI-DADE COUNTY



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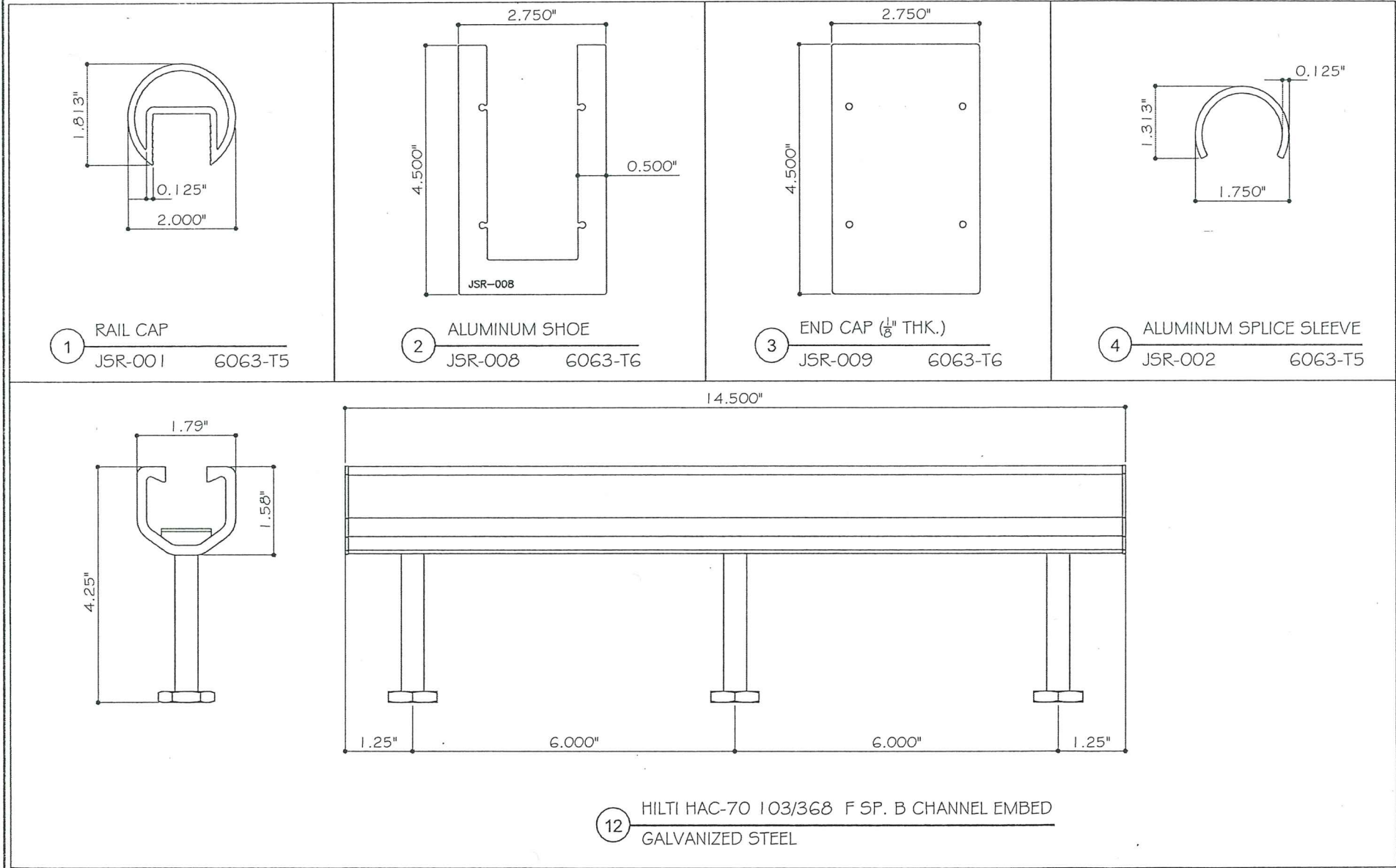
NO	DATE	DESCRIPTION
1	05/04/23	RENEWAL

D2
DATE 05/04/23
SCALE AS SHOWN
DRAWN james
PROJECT 23-077
DRAWING NO. AD16-32
4 OF 5



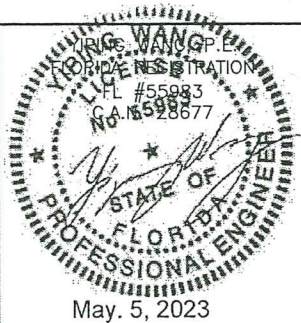
BILL OF MATERIALS

ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	JSR-001	RAIL CAP	ALUM. 6063-T5	LB ALUMINUM BERHAD
2	JSR-008	ALUMINUM SHOE	ALUM. 6063-T6	LB ALUMINUM BERHAD
3	-	1/8" THK. ALUMINUM END CAP	ALUM. 6063-T6	LB ALUMINUM BERHAD
4	JSR-002	ALUMINUM SPLICE SLEEVE, 6" LG. @ 144" O.C. MAX.	ALUM. 6063-T5	LB ALUMINUM BERHAD
5	SB-03	SILICONE SETTING BLOCK (1-1/8" X 1-3/8" X 6" LG.) AT 1/4 POINTS	SILICONE	-
6	ZGD-02	#8 X 3/4" FH SMS SELF-TAPPING SCREW (END CAP AND SHOE)	STAINLESS STEEL 316	-
7	LS-03	M16X80 HBC-C T-BOLT (GRADE 4.6), HBC-C-E T-BOLT (GRADE 8.8), HBC-C-N T-BOLT (S/S) OR M16 GALVANIZED BOLT, GRADE 5	GALVANIZED STEEL	-
		M16 GALVANIZED STEEL NUT	GALVANIZED STEEL	-
8	SCR-900	SCR-900 SPACER (7/16" X 3-1/8")	EPDM, SHORE "A", DURO 80 +/- 5	TREMCO
9	DC-995	DC-995 BLACK	SILICONE	DOW CORNING
10	GT-04	SILICONE GASKET	SILICONE, HA85 +/- 5	FENFA
11	-	PLASTIC SHIM (1/2" X 2-3/4")	PLASTIC	-
12	-	HILTI HAC-70 103/368 F SP. B CHANNEL EMBED	GALVANIZED STEEL	HILTI



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MIAMI-DADE COUNTY



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5 OF 5	

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REVISIONS	
NO.	DATE
1	05.04.23
RENEWAL	