



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/economy

E.S. Windows, LLC
3550 NW 49th Street
Miami, FL 33142

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 "ES-RL3520" Aluminum Post Glazed Railing System.

APPROVAL DOCUMENT: Drawing No. **AD25-38**, titled "ES-RL3520 Railing System", sheets 1 through 12 of 12, dated 11/07/25, with revision No. 02 dated 06/08/26, prepared by the MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: N/A

LABELING: A permanent label with the manufacturer's name or logo, **Barranquilla, Colombia**, model/series, and the statement reading: "Miami-Dade County Product Control Approved", is to be located on each unit.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

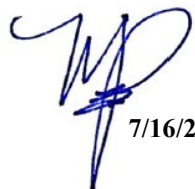
TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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




7/16/26

NOA No. 25-1113.02
Expiration Date: July 23, 2031
Approval Date: July 23, 2026
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 25-1113.02)
2. Drawing No. **AD25-38**, titled "ES-RL3520 Railing System", sheets 1 through 12 of 12, dated 11/07/25, with revision No. 02 dated 06/08/26, prepared by the MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Concentrated and Distributed Load Test per FBC, 1618.4.6
3) Safety Performance Test, (class A) per ANSI Z97.1
along with installation diagram of Series "ES-RL3520 Aluminum Railing System, prepared by Blackwater Technical Services, Inc., Test Report No. **BT-ESW-22-006**, dated 12/12/22, signed and sealed by Michael D. Caldwell, P.E.
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Concentrated and Distributed Load Test per FBC, 1618.4.6
3) Safety Performance Test, (class A) per ANSI Z97.1
along with installation diagram of Series "ES-RL3520 Aluminum Railing System, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-17-021**, dated 08/01/17, signed and sealed by Constantin Bortes, P.E.
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Concentrated and Distributed Load Test per FBC, 1618.4.6
3) Safety Performance Test, (class A) per ANSI Z97.1
along with installation diagram of an aluminum monolithic glass post railing system, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-15-002**, dated 04/03/15, signed and sealed by Yamil Gerardo Kuri, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 8th Edition (2023), dated 11/07/25, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, 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.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 25-1113.02
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F. STATEMENTS

1. Statement letter of code conformance to the **FBC 8th Edition (2023)** issued by MCY Engineering, Inc., dated 11/07/25, signed and sealed by Yiping Wang, P.E.
2. Statement letter of no financial interest issued by MCY Engineering, Inc., dated 11/07/25, signed and sealed by Yiping Wang, P.E.

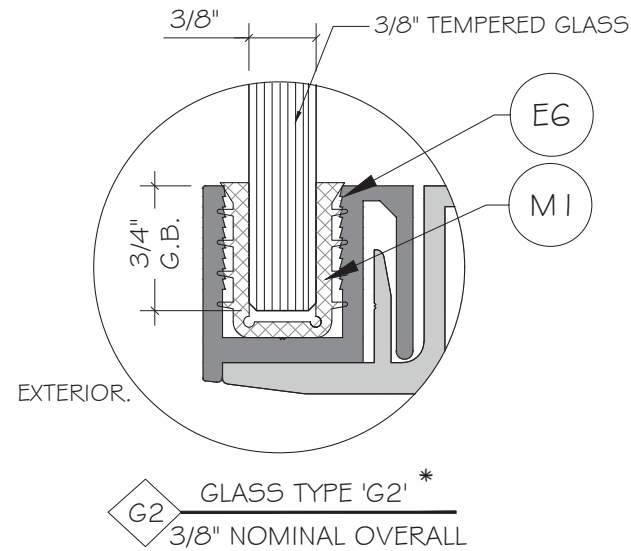
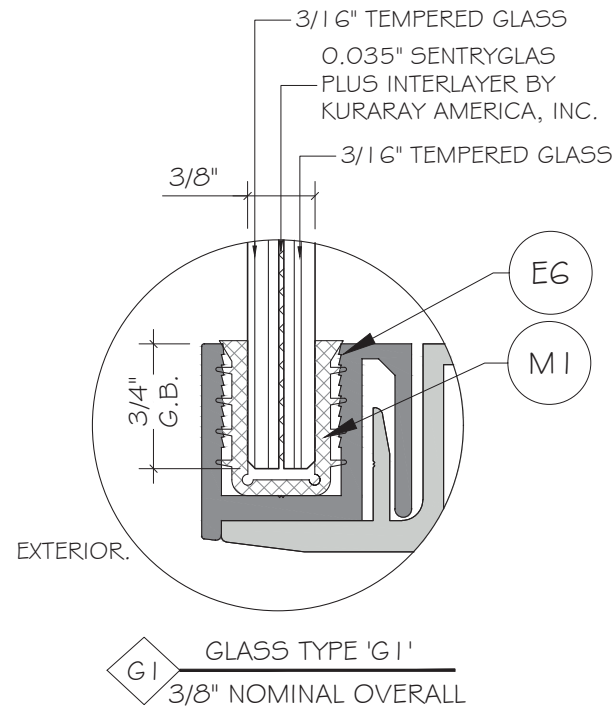
G. OTHERS

1. None.


Manuel Perez, P.E.
Product Control Examiner
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The following pages in this document were submitted by the manufacturer (third party) to represent the product being approved and establish the limits of use. The pages may include technical drawings, schematics and installation details.

ES WINDOWS, LLC.
ES-RL3520 RAILING SYSTEM



* SINGLE FULLY TEMPERED GLASS G2 CAN ONLY BE USED WHERE THERE IS NO WALKING SURFACE BENEATH THEM OR THE WALKING SURFACE IS PERMANENTLY PROTECTED FROM THE RISK OF FALLING GLASS.

NOTE:
GLASS COMPLIES WITH ASTM E1300-09
(3 SEC. GUSTS) AND ANSI Z97.1.

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION OF FLORIDA BUILDING CODE 2023 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 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.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/ METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 8TH EDITION OF FLORIDA BUILDING CODE 2023.
- ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
- MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET 02 TO 04 FOR APPROVED TYPICAL ELEVATION #CONFIGURATION AND DESIGN LOAD. SEE SHEET 01 FOR GLASS COMPOSITION. SEE SHEET 07 FOR BLOCK OUT SIZE.
- STEP 3: THE LOWEST VALUE RESULTING FROM STEPS 2 THAT EXCEED THE DESIGN

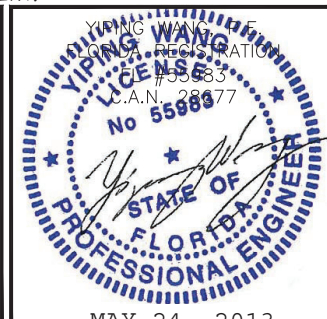
WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

G.B. - GLASS BITE
 D.L.O. - DAYLITE OPENING
 G.H. - GLASS HEIGHT
 G.W. - GLASS WIDTH
 W/ - WITH
 W/O - WITHOUT
 O.C. - ON CENTER

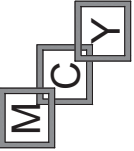
MIAMI DADE COUNTY

PRODUCT APPROVED
As complying with the Florida
Building Code
NOA-No. 25-1113.02
Approval Date: 07/23/2026
By: Manuel Perez
Miami-Dade Product Control



~~MAY 24, 2020~~
~~June 08th, 2020~~

MCY ENGINEERING, INC.
GLAZING CONSULTANTS



12781 MIRAMAR PKWY,STE.301
MIRAMAR, FL 33027 P: 305.588.5224
mcye@mcyeengineering.com

www.MCSEngineering.com

ES-RL3520 RAILING SYSTEM

E.S.WINDOWS, LLC
3550 N.W. 49th Street
MIAMI, FL 33142
TEL. 305 638 5151

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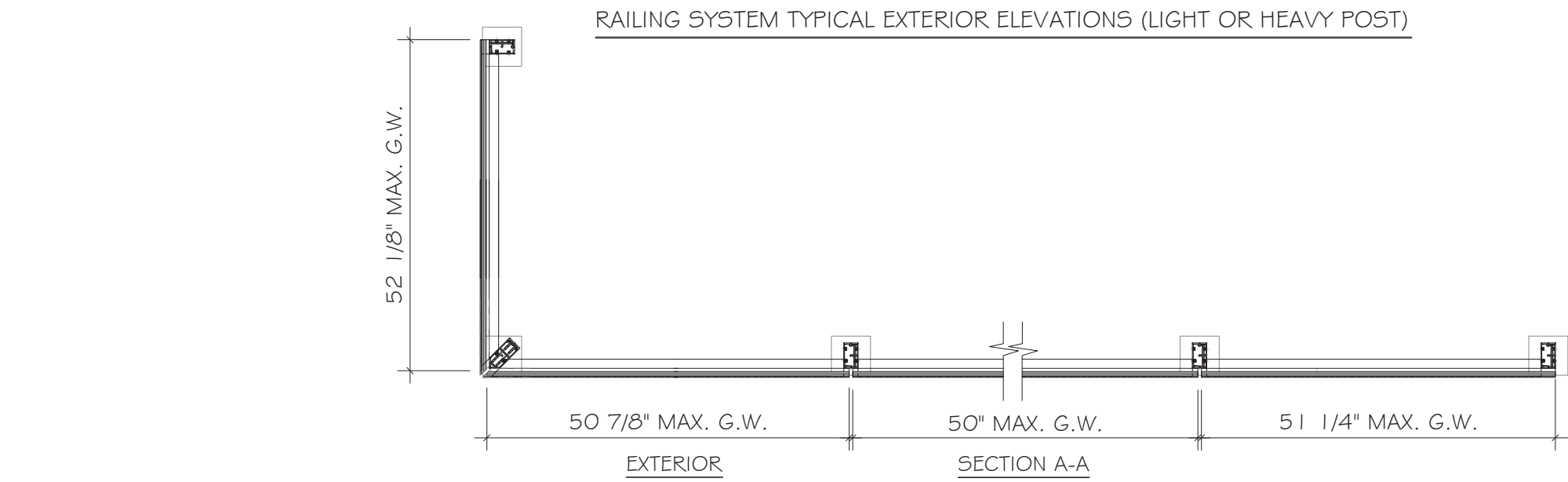
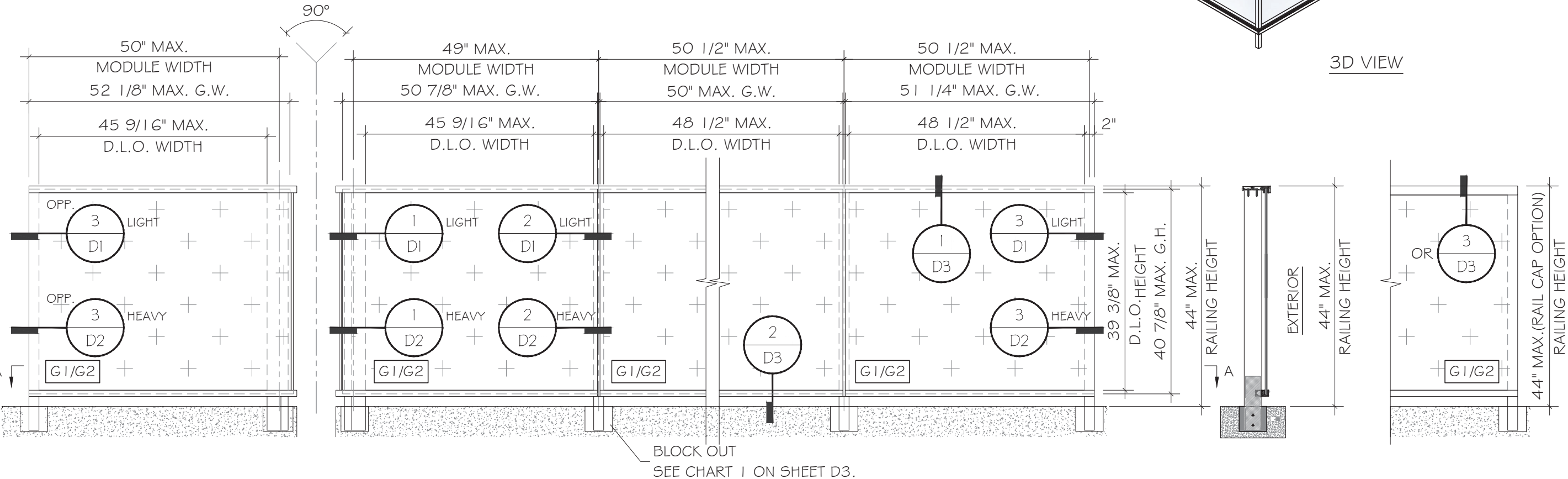
Drawn Date	Scale
06.08.2026	AS SHOWN

DRAWING NO.
025-38

OVER

Sheet No. 12

MAX. ALLOWABLE DESIGN LOAD FOR SIZES SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC			
LIGHT POST	G1/G2	W/O REINF.	+/-100.0 PSF
LIGHT POST	G1/G2	W/ REINF. M11	+/-120.0 PSF
HEAVY POST	G1	W/O REINF.	+/-130.0 PSF
HEAVY POST	G1	W/ REINF. M12	+/-145.0 PSF
LIGHT POST (CORNER)	G1/G2	W/O REINF.	+/-81.0 PSF
LIGHT POST (CORNER)	G1/G2	W/ (2) REINF. M13	+/-120.0 PSF
HEAVY POST (CORNER)	G1/G2	W/O REINF.	+/-96.5 PSF
HEAVY POST (CORNER)	G1	W/ (2) REINF. M14	+/-145.0 PSF



MIAMI DADE COUNTY

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Miami-Dade Product Control

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No 55988
FLORIDA
MAY 24, 2013

June 08th, 2026

MCY ENGINEERING, INC.
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ES-RL3520 RAILING SYSTEM
E.S. WINDOWS, LLC
3550 N.W. 49th Street
MIAMI, FL 33142
TEL: 305 638 5151

Rev. No.	Date	Drawn By	Checked By	Description
R2	06.08.2026	James	Leo	REVISION
R1	12.24.2025	James	Leo	REVISION
R0	11.07.2025	James	Leo	NEW APPLICATION

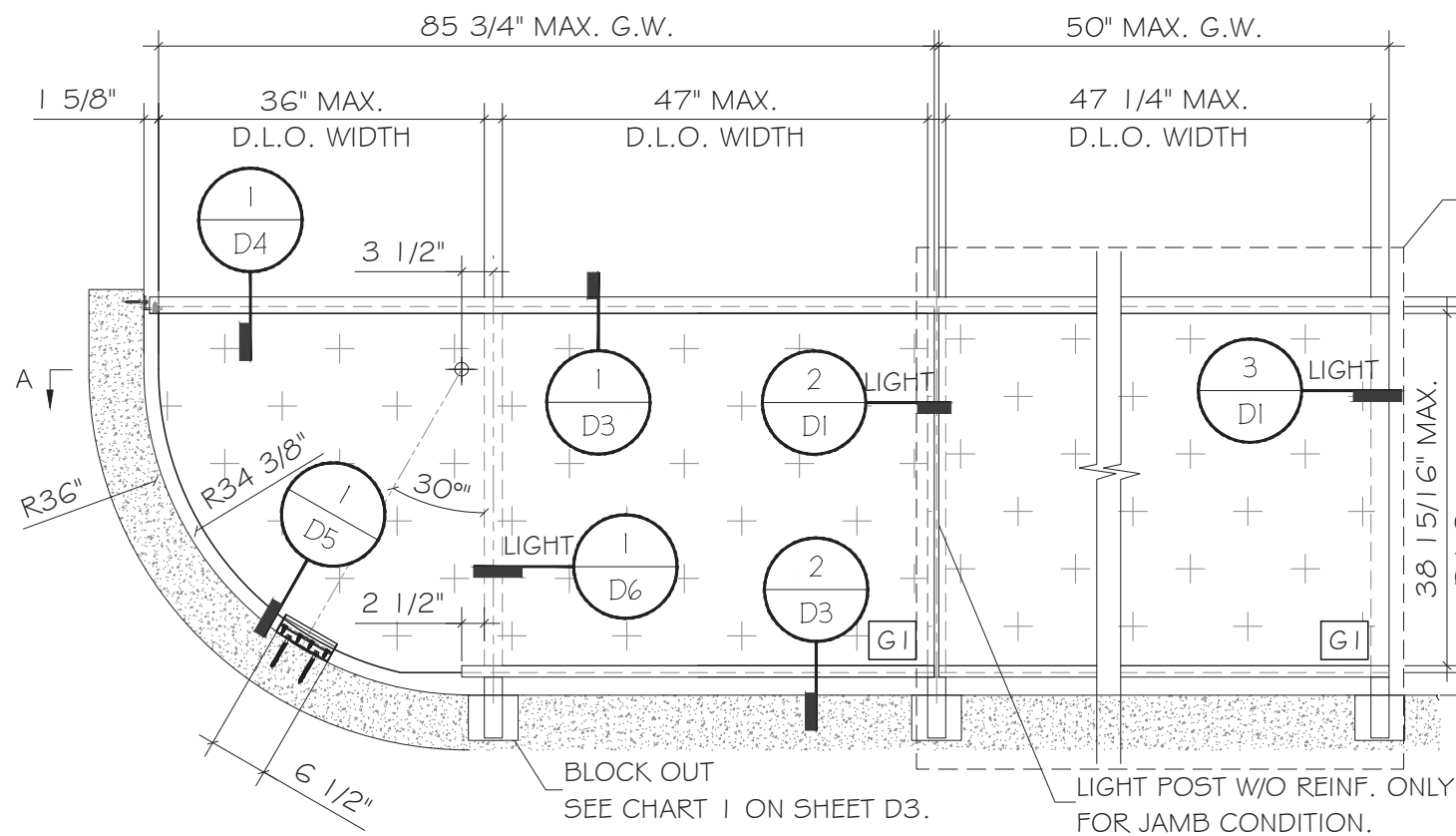
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DRAWING NO.
AD25-38

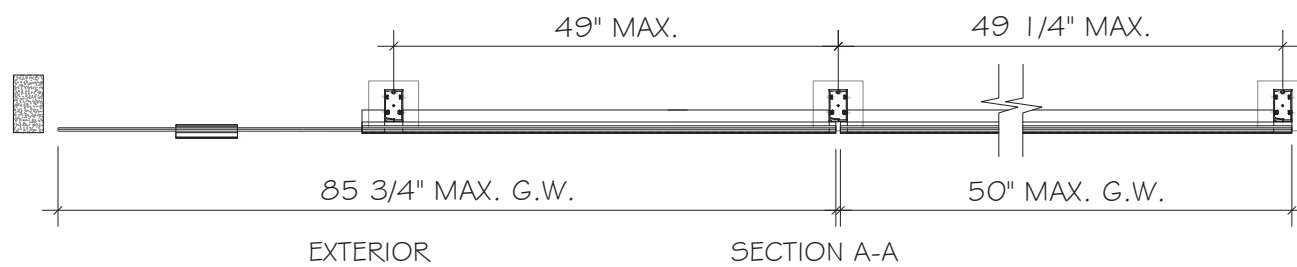
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Sheet No.
2

OF 12



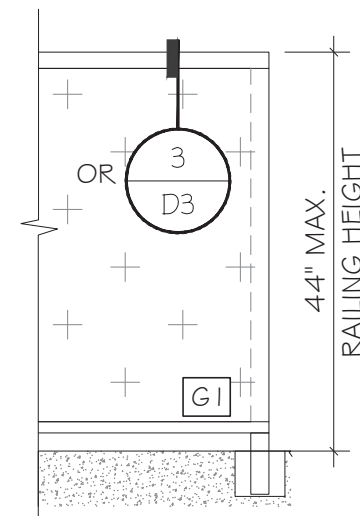
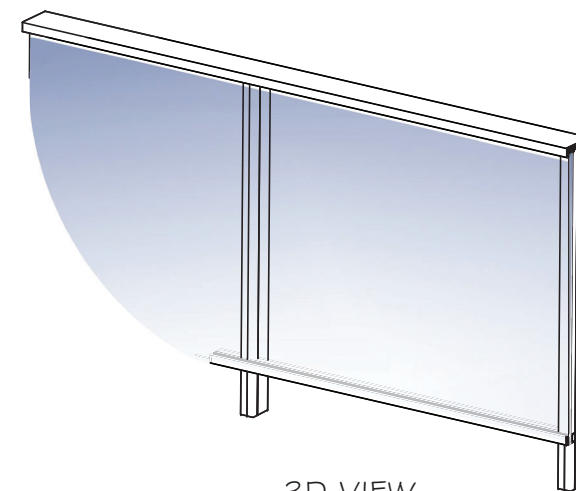
RAILING SYSTEM TYPICAL EXTERIOR ELEVATIONS



EXTENDED RAILING SEE SHEET E1 FOR DESIGN LOAD.



3D VIEW



RAILING CAP OPTIONS

MAX. ALLOWABLE DESIGN LOAD FOR SIZES SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC	
LIGHT POST W/O REINF.	+110.0 PSF -110.0 PSF

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YIPING WANG, P.E.
REGISTERED PROFESSIONAL ENGINEER
No 55983
C.A.N. 28477

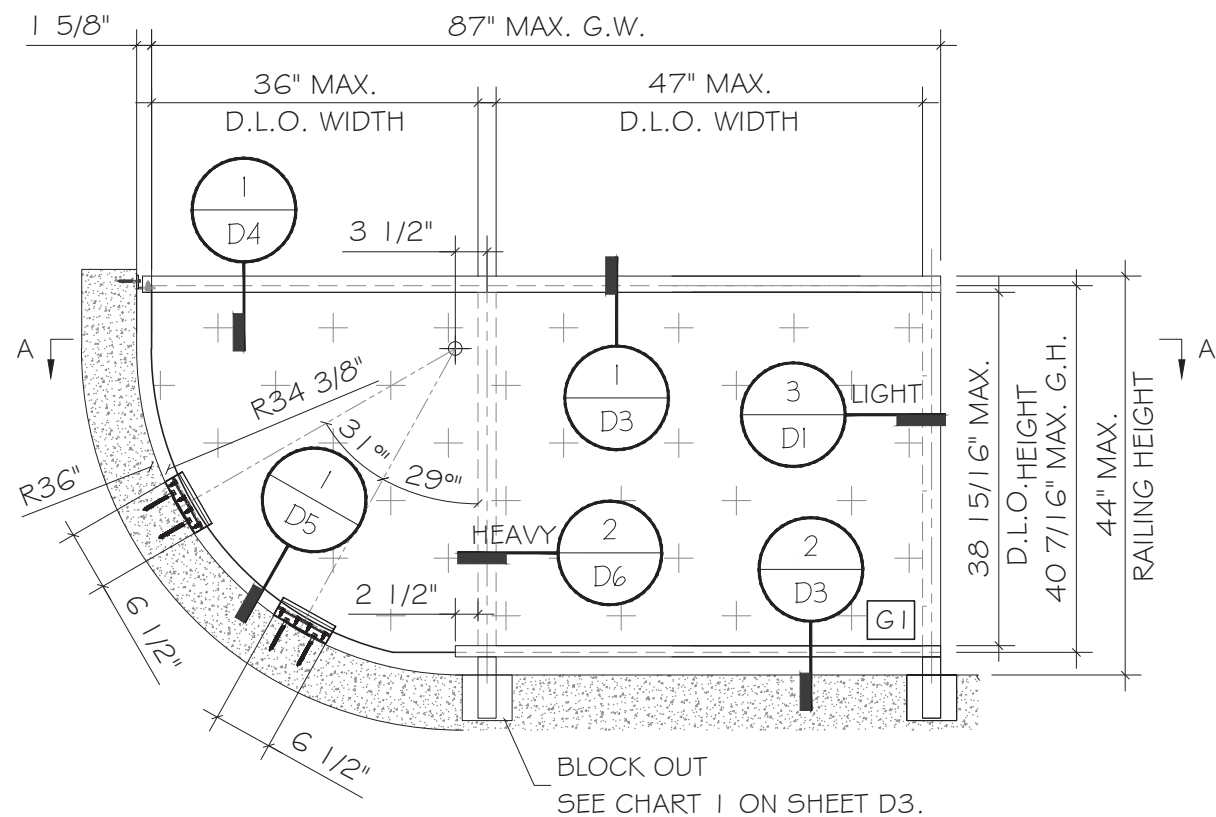
MAY 24, 2013

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www.MCYEngineering.com mcy@mcyengineering.com

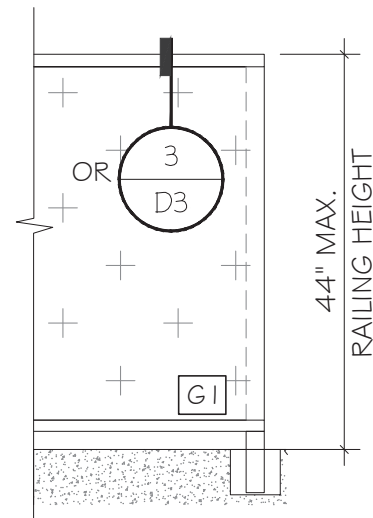
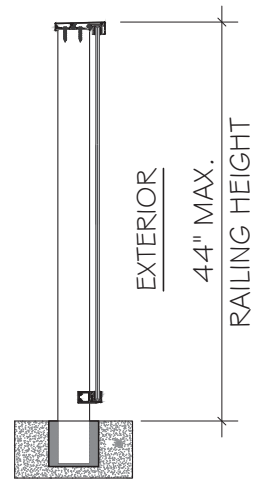
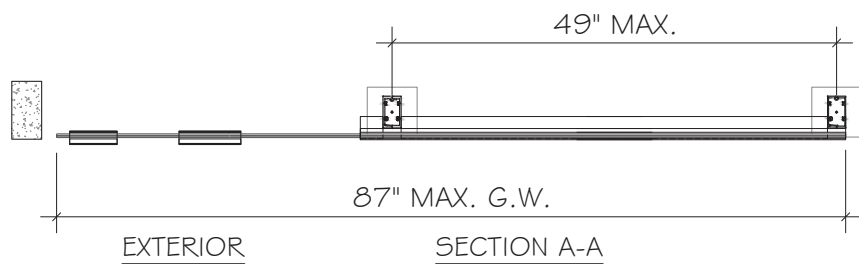
ES-RL3520 RAILING SYSTEM

E.S. WINDOWS, LLC
3550 N.W. 49th Street
MIAMI, FL 33142
TEL 305 638 5151

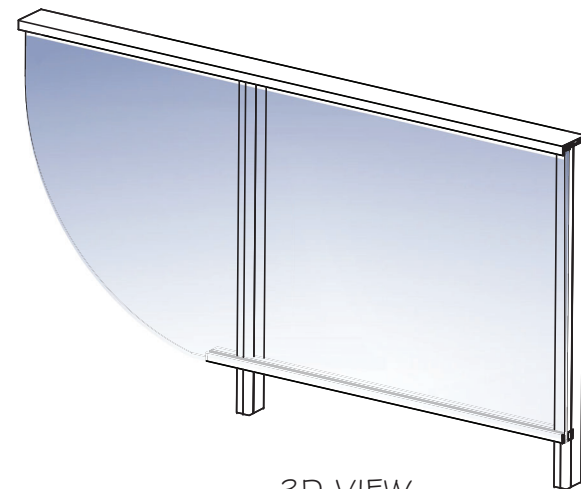
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R2	06.08.2026	James	Leo	REVISION
R1	12.24.2025	James	Leo	REVISION
R0	11.07.2025	James	Leo	NEW APPLICATION
Drawing Date: 06.08.2026 Scale: AS SHOWN Drawing No. AD25-38 Sheet No. E2 3 OF 12				



RAILING SYSTEM TYPICAL EXTERIOR ELEVATIONS



FOR RAIL CAP OPTIONS



3D VIEW

MAX. ALLOWABLE DESIGN LOAD FOR SIZES SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC	
LIGHT POST W/O REINF.	+ 138.0 PSF
HEAVY POST W/O REINF.	- 138.0 PSF

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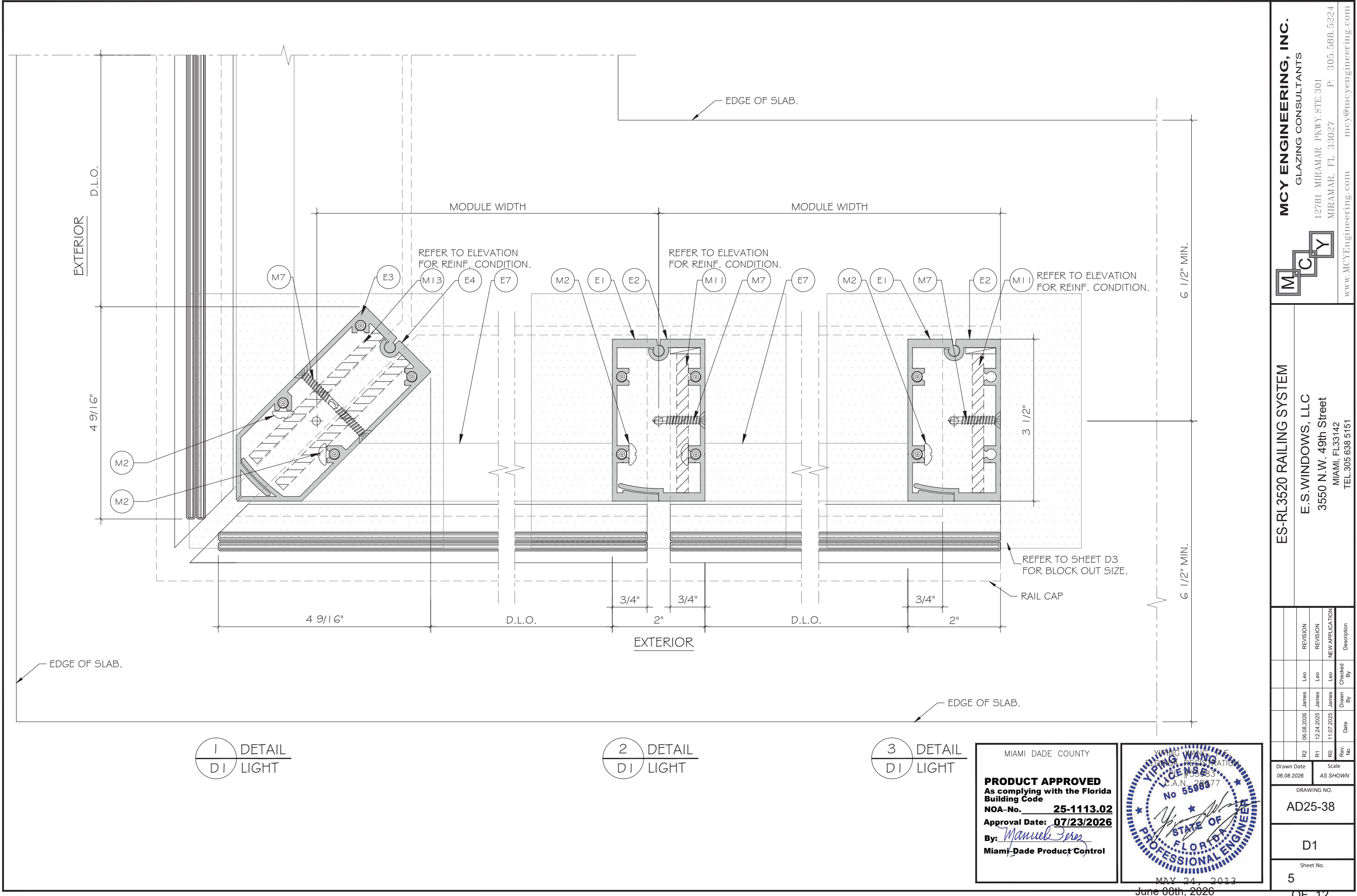
YIPING WANG, P.E.
Professional Engineer
Registration No. 55988
State of Florida
Professional Engineer
MAY 24, 2013

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Drawn Date: 06.08.2026 Scale: AS SHOWN				
DRAWING NO. AD25-38				
E3				
Sheet No. 4				

ES-RL3520 RAILING SYSTEM

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3550 N.W. 49th Street
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MCY ENGINEERING, INC.
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www.MCYEngineering.com mcy@mcyengineering.com



MCY

ENGINEERING

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ES-RL3520 RAILING SYSTEM

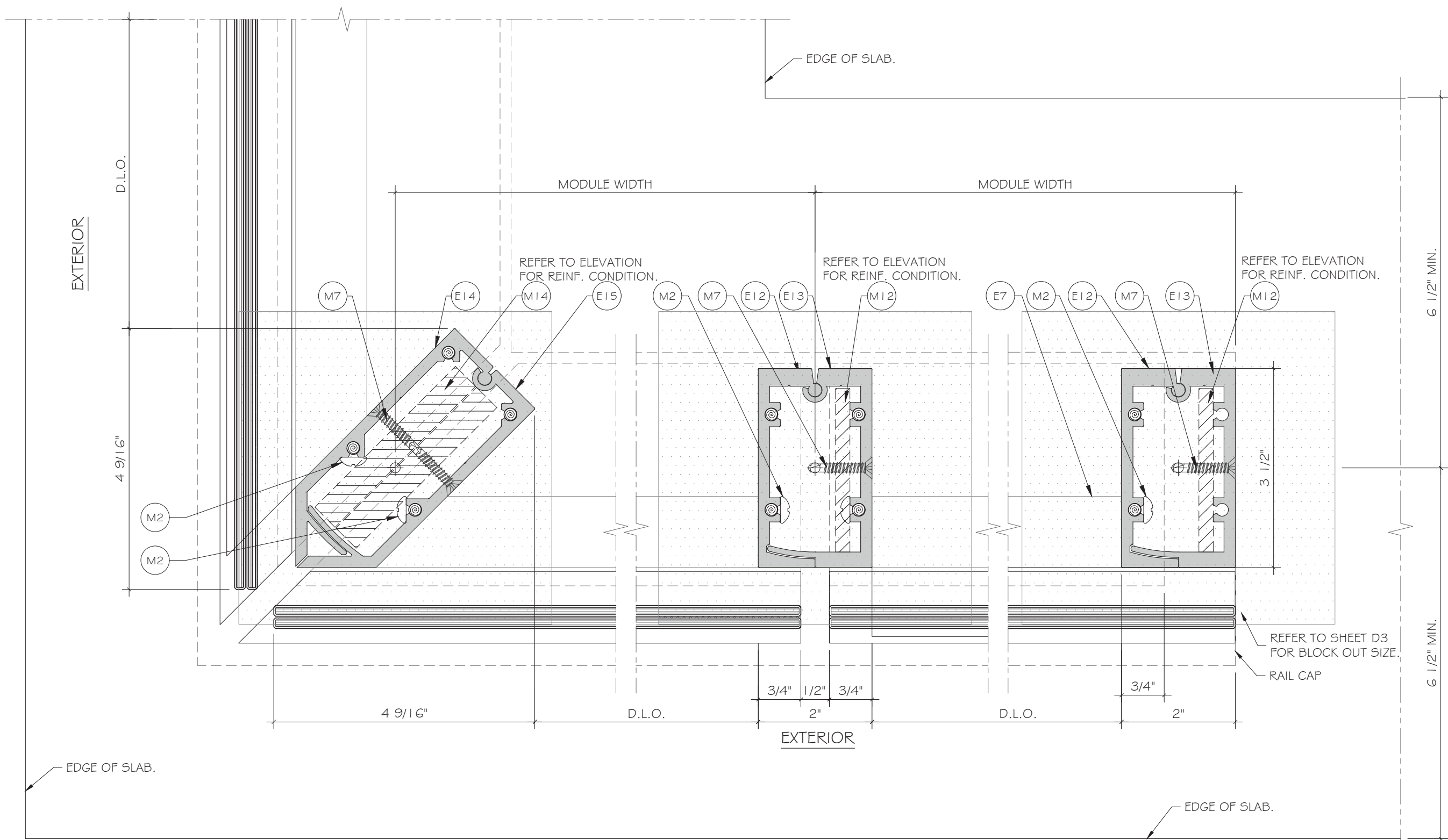
E.S. WINDOWS, LLC
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R0	11.07.2025	James Leo		NEW APPLICATION
Drawn Date 06.08.2026 Scale AS SHOWN				
Drawing No. AD25-38				
Sheet No. D1				
5 OF 12				

MIAMI DADE COUNTY
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Miami-Dade Product Control

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No 55988
FLORIDA
MAY 24, 2013

June 08th, 2026

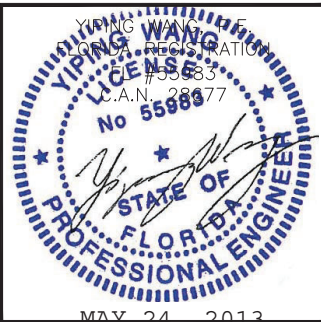


1
D2
DETAIL
HEAVY

2
D2
DETAIL
HEAVY

3
D2
DETAIL
HEAVY

MIAMI DADE COUNTY
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Miami-Dade Product Control



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06.08.2026

Scale
AS SHOWN

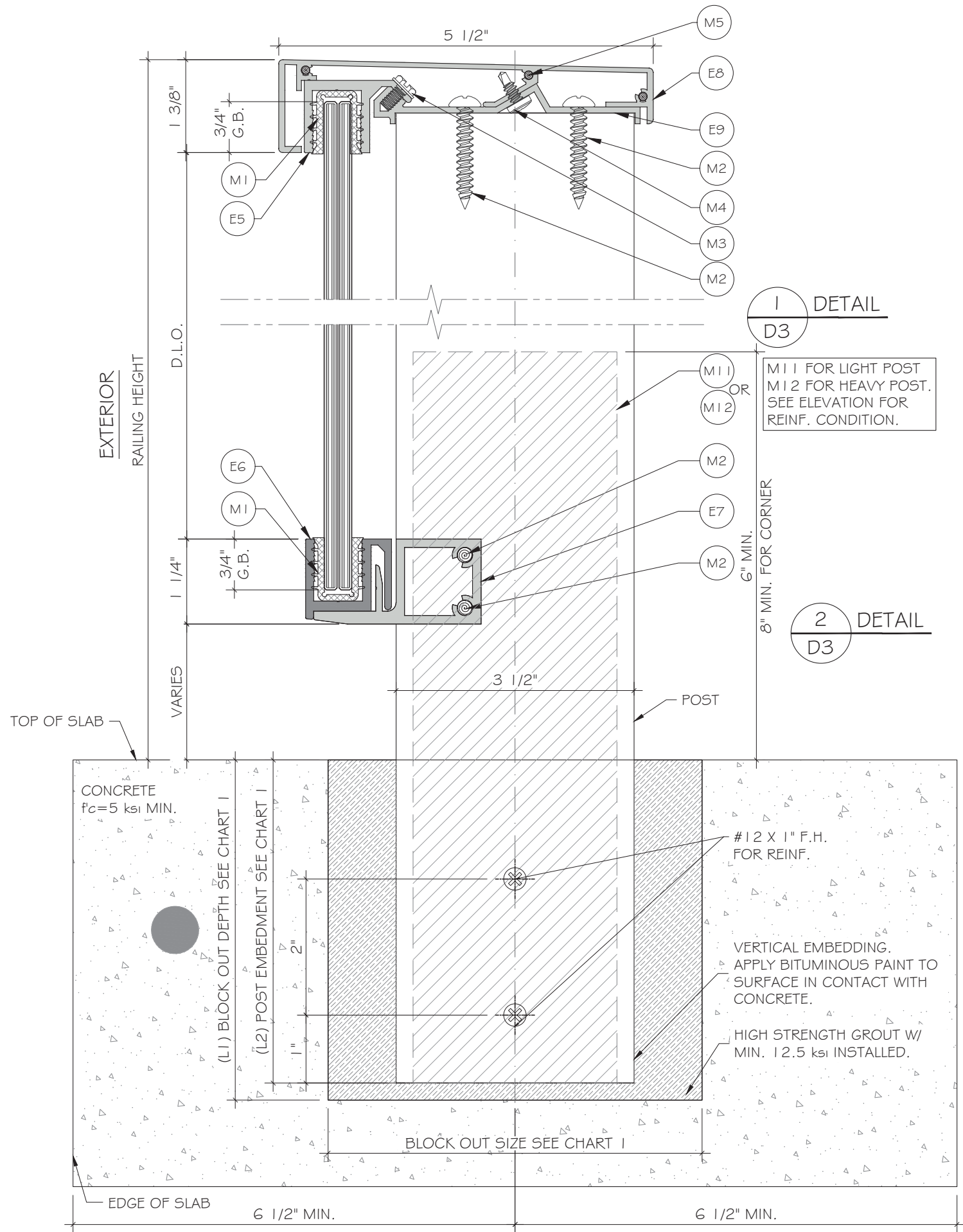
DRAWING NO.
AD25-38

D2

Sheet No.
6

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY, STE. 301
MIRAMAR, FL 33027 P: 305.588.5224
www.MCYEngineering.com mcy@mcyengineering.com

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EXTERIOR

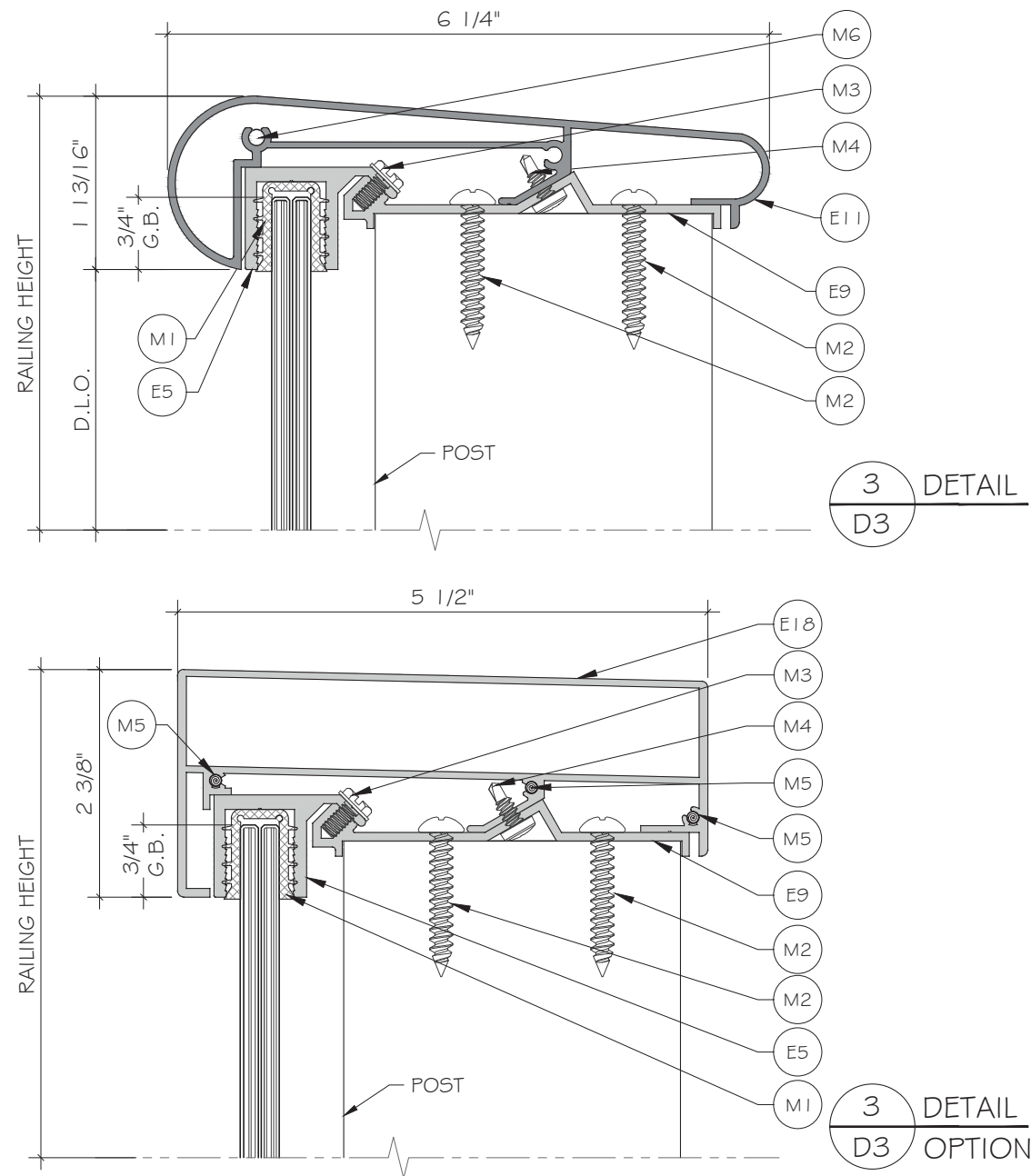
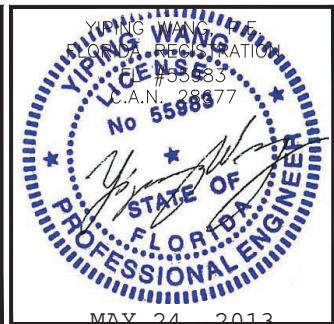


CHART I				
POST TYPE	BLOCK OUT SIZE (INCH) MIN.	BLOCK OUT DEPTH L1 (INCH) MIN.	POST EMBEDMENT L2 (INCH) MIN.	DESIGN LOAD (PSF) (+/-) MAX.
LIGHT	5 X 5	5	4 3/4	110
LIGHT	5 X 5	5 1/4	5	120
HEAVY	5 1/2 X 5 1/2	5 3/8	5 1/8	130
HEAVY	5 1/2 X 5 1/2	5 3/4	5 1/2	145

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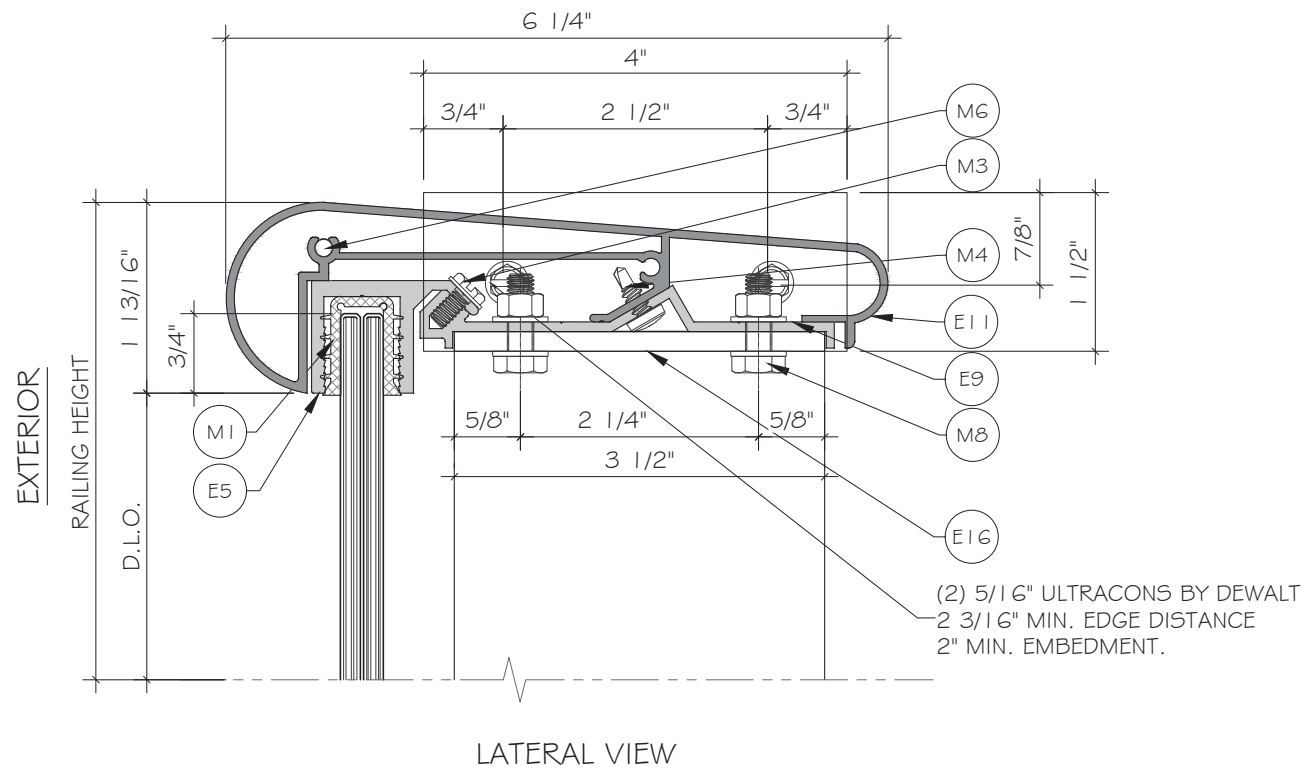
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DRAWING NO.
AD25-38

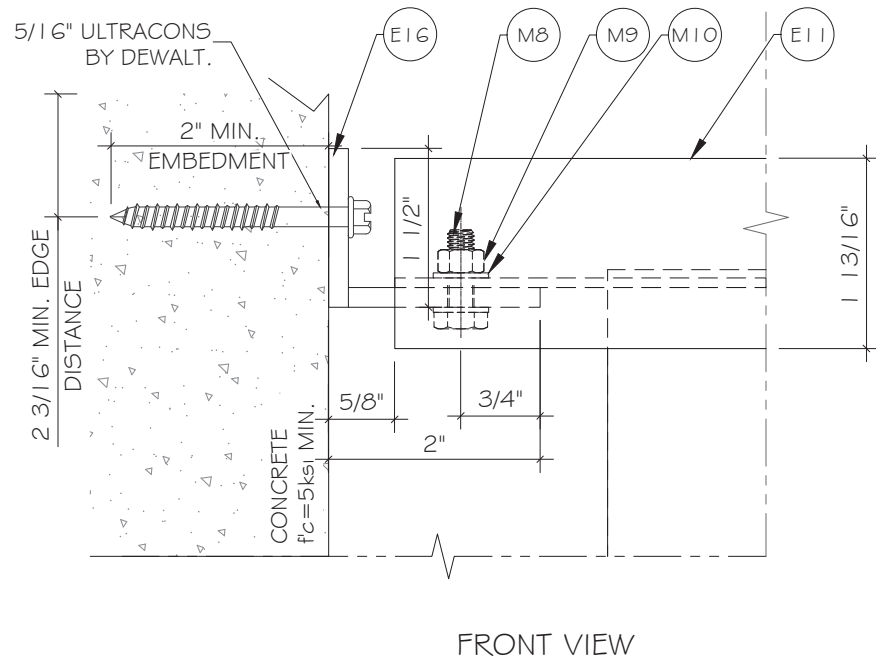
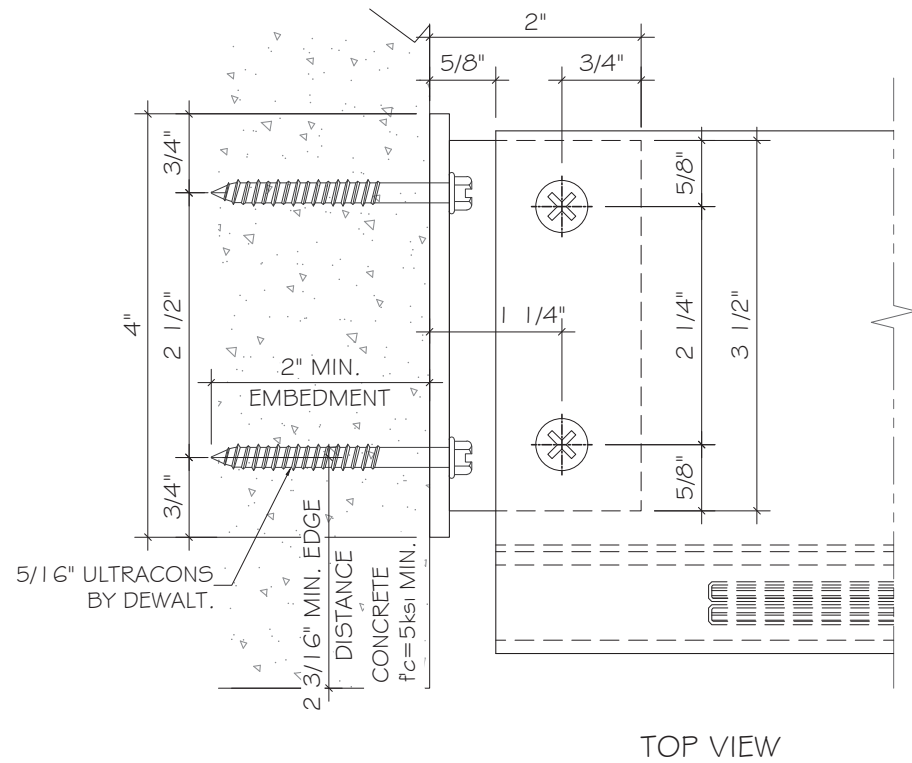
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Sheet No.
7



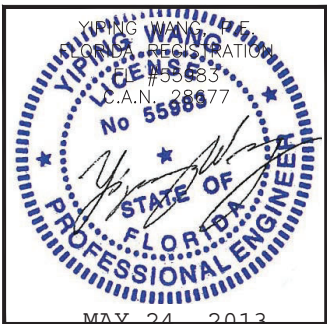
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D4

DETAIL



MIAMI DADE COUNTY

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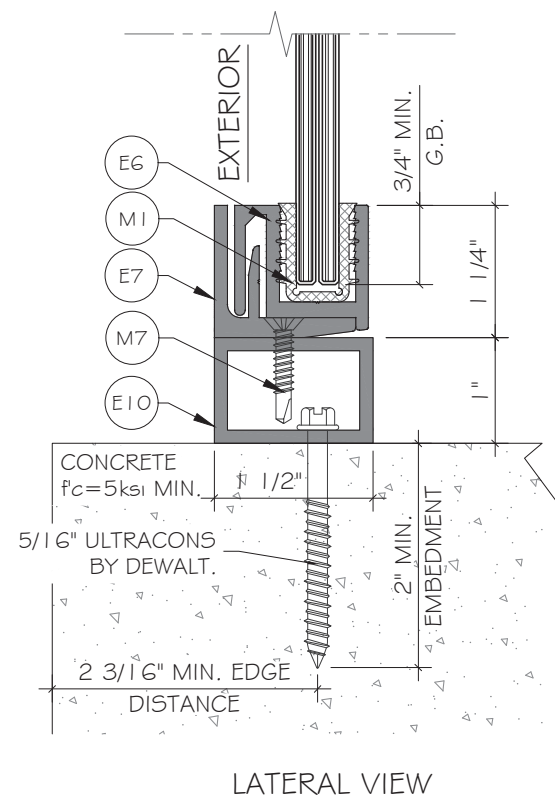
D4

Sheet No.
8

ES-RL3520 RAILING SYSTEM

E.S. WINDOWS, LLC
3550 N.W. 49th Street
MIAMI, FL 33142
TEL 305 638 5151

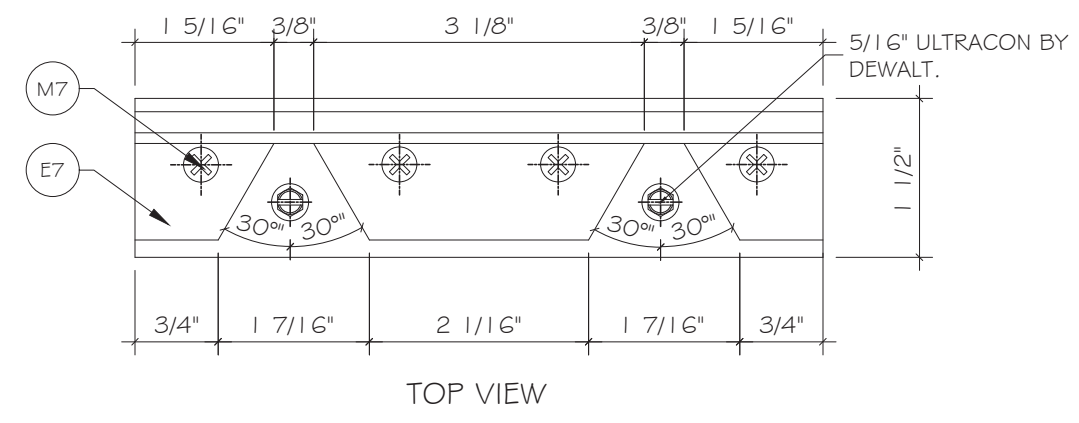
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY, STE. 301
MIAMI, FL 33027 P: 305.588.5224
www.MCYEngineering.com mcy@mcyengineering.com



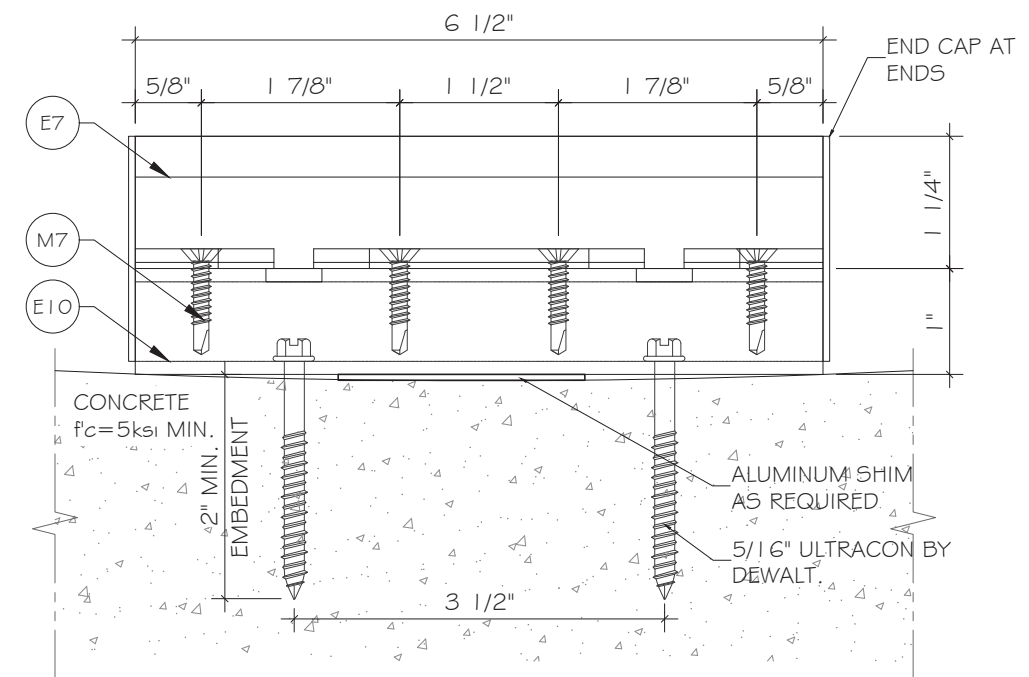
LATERAL VIEW

1
D5

DETAIL



TOP VIEW



FRONT VIEW

MIAMI DADE COUNTY

PRODUCT APPROVED
As complying with the Florida Building Code
NOA-No. **25-1113.02**
Approval Date: **07/23/2026**
By: *Manuel Perez*
Miami-Dade Product Control



Rev. No.	Date	Drawn By	Checked By	Description
R2	06.08.2026	James Leo		REVISION
R1	12.24.2025	James Leo		REVISION
R0	11.07.2025	James Leo		NEW APPLICATION

Drawn Date: 06.08.2026
Scale: AS SHOWN

DRAWING NO.
AD25-38

D5

Sheet No.
9

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

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mcye@mcyengineering.com

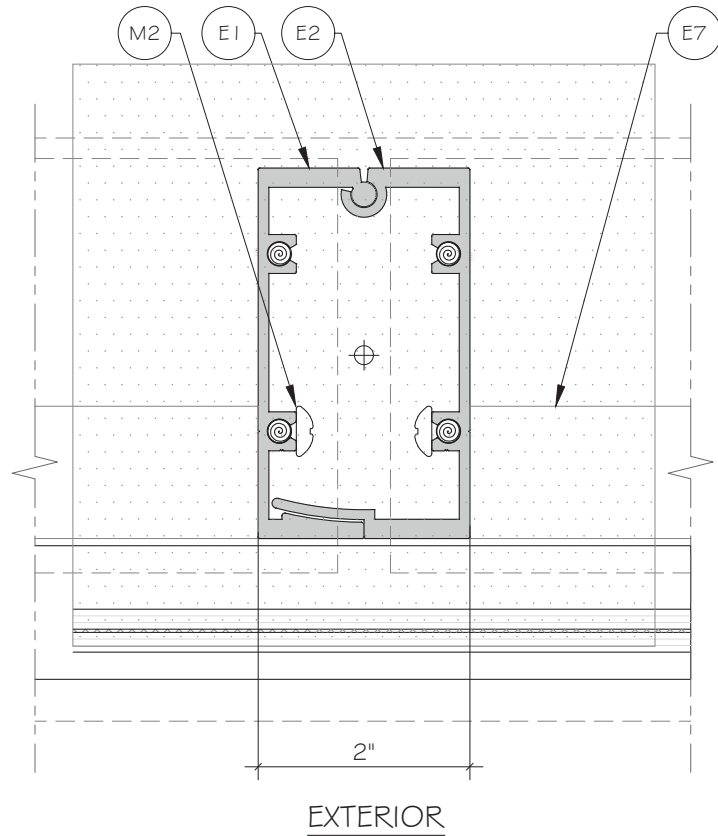
12781 MIRAMAR PKWY, STE. 301

MIRAMAR, FL 33027

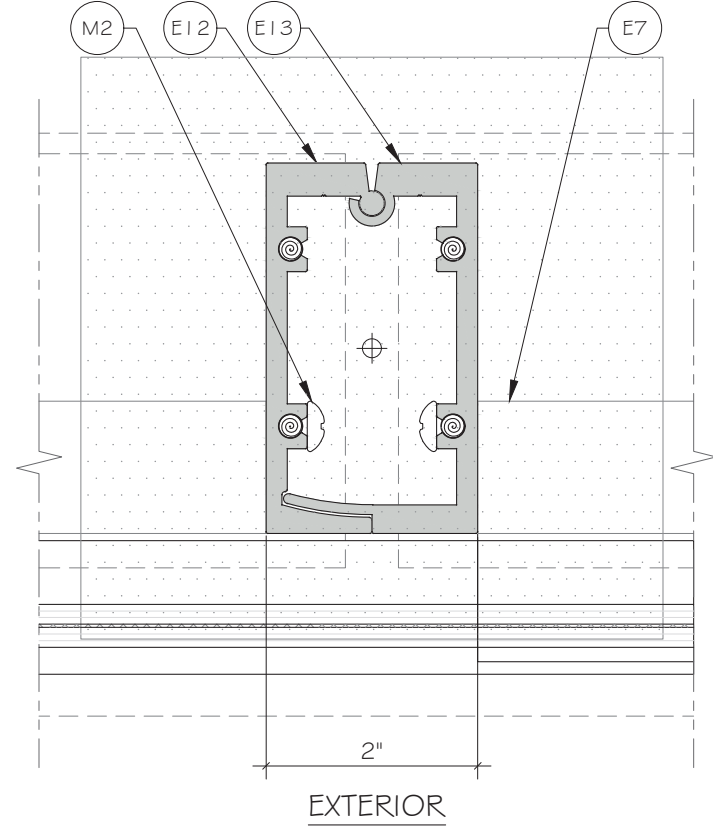
P: 305.588.5224

ES-RL3520 RAILING SYSTEM

E.S.WINDOWS, LLC
3550 N.W. 49th Street
MIAMI, FL 33142
TEL. 305 638 5151



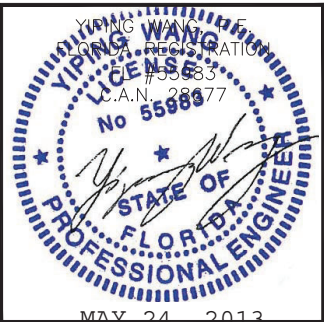
1
D6
DETAIL
LIGHT



2
D6
DETAIL
HEAVY

MIAMI DADE COUNTY

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D6				
10 OF 12				

ES-RL3520 RAILING SYSTEM

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E1 FEMALE POST
ES-RL3520-001
ALUMINUM. 6005-T5

E2 MALE POST
ES-RL3520-002
ALUMINUM. 6005-T5

E3 CORNER FEMALE POST
ES-RL3520-003
ALUMINUM. 6005-T5

E4 CORNER MALE POST
ES-RL3520-004
ALUMINUM. 6005-T5

E5 TOP GLASS ADAPTER
ES-RL3520-005
ALUMINUM. 6063-T6

E6 BOTTOM GLASS ADAPTER
ES-RL3520-006
ALUMINUM. 6063-T6

E7 BOTTOM RAIL
ES-RL3520-007
ALUMINUM. 6063-T6

E8 RAIL CAP
ES-RL3520-008
ALUMINUM. 6063-T6

E9 TOP RAIL
ES-RL3520-009
ALUMINUM. 6063-T6

E10 TUBE SUPPORT
ALU-A-028
ALUMINUM. 6063-T6

E11 RAIL CAP
ES-RL3520-011A
ALUMINUM. 6063-T6

E12 HEAVY FEMALE POST
ES-RL3521-001
ALUMINUM. 6005-T5

E13 HEAVY MALE POST
ES-RL3521-002
ALUMINUM. 6005-T5

E14 HEAVY CORNER FEMALE POST
ES-RL3521-003
ALUMINUM. 6005-T5

E15 HEAVY CORNER MALE POST
ES-RL3521-004
ALUMINUM. 6005-T5

E16 ANCHOR ANGLE
ALU-A-028
ALUMINUM. 6063-T6

E17 END CAP
ES-CF-001
ALUMINUM. 6063-T5

E18 RAIL CAP
ES-RL3520-008
ALUMINUM. 6063-T6

MIAMI DADE COUNTY

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By: *Manuel Fern*
Miami-Dade Product Control

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No 55988
STATE OF FLORIDA

MAY 24, 2013

Drawn Date: 06.08.2026
Scale: AS SHOWN

DRAWING NO.
AD25-38

PART

Sheet No.
11

OF 12

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GLAZING CONSULTANTS
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