



**Product Approval**  
USER: Public User

**PA-05**

OFFICE OF THE  
SECRETARY

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

FL #

FL22267-R12

Application Type

Revision

Code Version

2023

Application Status

Approved

Comments

Archived



Product Manufacturer

E.S. Windows, Inc.

Address/Phone/Email

10653 NE Quaybridge Ct.  
Miami, FL 33138  
(305) 624-7775  
achamorro@eswllc.com

Authorized Signature

Yiping Wang

mcy@mcyengineering.com

Technical Representative

Samir Sabagh

Address/Phone/Email

3550 NW 49th St.  
Miami, FL 33142  
(305) 638-5151  
ssabagh@energiasolarsa.com

Quality Assurance Representative

Address/Phone/Email

Category

Exterior Doors

Subcategory

Sliding Exterior Door Assemblies

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer

☐ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report

Yiping Wang

Florida License

PE-55983

Quality Assurance Entity

Keystone Certifications, Inc.

Quality Assurance Contract Expiration Date

07/16/2025

Validated By

Xiaojun Gu

☒ Validation Checklist - Hardcopy Received

Certificate of Independence

[FL22267 R12 COI Certificate of Independence FBC 2023.pdf](#)

Referenced Standard and Year (of Standard)

**Standard**

**Year**

AAMA 1304

2002

ASTM E1886

2019

ASTM E1996

2020

ASTM E283

2012

ASTM E331

2016

ASTM F842

2017

TAS 201

1994

TAS 202

1994

TAS 203

1994

Equivalence of Product Standards  
Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted 12/18/2023  
Date Validated 12/28/2023  
Date Pending FBC Approval 01/03/2024  
Date Approved 02/13/2024

**Summary of Products**

| FL #                                                                                                                                                                                                                                                                                | Model, Number or Name                   | Description                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22267.1                                                                                                                                                                                                                                                                             | ES-SGD2020 SLIDING GLASS DOOR-LMI & SMI | sliding glass door-large and small missile impact.                                                                                                                                                                                                                                                                                                                    |
| <b>Limits of Use</b><br><b>Approved for use in HVHZ:</b> Yes<br><b>Approved for use outside HVHZ:</b> Yes<br><b>Impact Resistant:</b> Yes<br><b>Design Pressure:</b> +150/-150<br><b>Other:</b> for sliding glass door sizes vs. design pressure refer to installation instructions |                                         | <b>Installation Instructions</b><br><a href="#">FL22267_R12_II_ES-SGD2020_SLIDING GLASS DOOR LMI SMI FL22267 AD16-29 REV 12.21.2023_ss.pdf</a><br>Verified By: Yiping Wang PE #55983<br>Created by Independent Third Party: Yes<br><b>Evaluation Reports</b><br><a href="#">FL22267_R12_AE_SGD2020-FVR-FBC 2023_SS.pdf</a><br>Created by Independent Third Party: Yes |

[Back](#)

[Next](#)

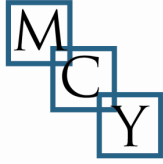
[Contact Us](#) :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

The State of Florida is an AA/EEO employer. [Copyright 2007-2013 State of Florida](#). :: [Privacy Statement](#) :: [Accessibility Statement](#) :: [Refund Statement](#)

Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. \*Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click [here](#).

**Product Approval Accepts:**





MCY ENGINEERING, INC.  
GLAZING CONSULTANT

12781 Miramar Parkway, Suite 301  
Miramar, FL. 33027  
Mobile: (305) 588-5224  
Office: (305) 271-0117

## PRODUCT APPROVAL EVALUATION REPORT

|                                                                                                         |                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Product Manufacturer:</u><br><b>E.S. WINDOWS, Inc.</b><br>10653 NE Quaybridge Ct.<br>Miami, FL 33138 | <u>Product Name/Model &amp; Description:</u><br><b>Series SGD 2020 SLIDING GLASS DOOR</b><br><b>(L.M.I. &amp; S.M.I.) (HVHZ)</b><br>Sliding Glass Door – large & small missile impact |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Scope:** This product has been evaluated by the below-signed Florida Professional Engineer for compliance with the Code noted herein and is, for the purpose intended, at least equivalent to that required by the Code, in accordance with section 553.842 F.S. & chapter 61G20-3.005 F.A.C. Re-evaluation of this product shall be required following applicable Code modifications or revisions.

**Code:** 8<sup>th</sup> Edition Florida Building Code (2023), inclusive of all Supplements effective as of this report date.

**Compliance Method:** 61G20-3.005 (1)(d) – Evaluation Report from a licensed Professional Engineer

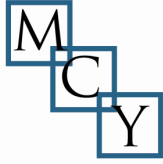
**Product Description:** Product Approval Drawing #AD16-29, prepared by MCY Engineering, signed and sealed by Yiping Wang, P.E., is an integral part of this Evaluation Report.

### Limitations & Conditions of Use:

- This product has been evaluated for use **inside and outside of the HVHZ** (High Velocity Hurricane Zone)
- Impact Resistance: **Large and Small Missile Impact**
- Refer to Product Approval Drawing noted above for:
  - Maximum allowable wind loads at related maximum allowable size(s).
  - Other load limitations applicable to the product, if any.
  - Overall dimensions and material/grade of main product components, accessories, etc.
  - Illustrated diagrams of the attachment of the product to the structure
  - Anchor type(s), size(s), substrate(s), embedment, edge distance, and spacing/locations.



December 27th, 2023



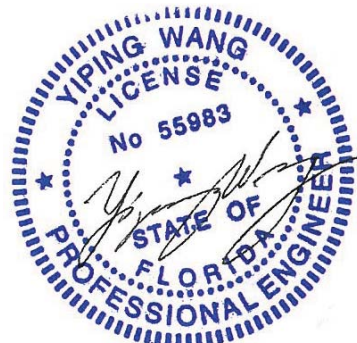
## Test Reports:

### Mandatory Tests (Tested in accordance with Florida Building Code Tests Protocols)

| Test Lab                                         | Report Number                                                                   | Test Report Date | Test Standard & Description                                                                                                                                                                                                                                                                          |
|--------------------------------------------------|---------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Blackwater Testing, Inc.<br>-West Palm Beach, FL | <i>BT-ESW-18-002,<br/>signed and sealed<br/>by Constantin<br/>Bortes, P.E.</i>  | 05/17/2018       | TAS 201 (large missile impact)<br>TAS 202(uniform static test)<br>TAS 203 (cyclic wind pressure loading)<br>ASTM E283 (air infiltration test)<br>ASTM E331 (water infiltration test)<br>AAMA 1304 (forced entry test)                                                                                |
| Fenestration Testing<br>Laboratory<br>FL33166    | <i>FTL-12390<br/>signed and sealed<br/>by<br/>Marlin Binson, PE</i>             | 12/17/2020       | TAS 201 (large missile impact)<br>TAS 202 (uniform static test)<br>TAS 203 (cyclic wind pressure loading)<br>ASTM E283 (Air Infiltration)<br>ASTM E331 (Water Resistance Test)<br>ASTM F842 (Force Entry)                                                                                            |
| Blackwater Testing, Inc.<br>-West Palm Beach, FL | <i>BT-ESW-16-010,<br/>signed and sealed<br/>by Constantin<br/>Bortes, P.E.</i>  | 03/23/2017       | TAS 201 (large missile impact)<br>TAS 202(uniform static test)<br>TAS 203 (cyclic wind pressure loading)<br>ASTM E283 (air infiltration test)<br>ASTM E331 (water infiltration test)<br>ASTM 1886(cyclic wind pressure loading)<br>ASTM 1996 (large missile impact)<br>AAMA 1303 (forced entry test) |
| Blackwater Testing, Inc.<br>-West Palm Beach, FL | <i>BT-ESW-23-003,<br/>signed and sealed<br/>by MICHAEL D<br/>CALDWELL, P.E.</i> | 12/07/2023       | TAS 201 (large missile impact)<br>TAS 202(uniform static test)<br>TAS 203 (cyclic wind pressure loading)                                                                                                                                                                                             |

### Engineering Analysis: The following engineering analyses and/or calculations have been performed:

- No comparative analysis has been performed for conditions other than those tested.
- No rational analysis has been performed.
- Anchor calculations are based on manufacturer's published anchor capacity, anchor Notice of Acceptance by Miami Dade County.



December 27th, 2023

ES WINDOWS, INC.  
SERIES SGD 2020 SLIDING GLASS DOOR  
LARGE AND SMALL MISSILE IMPACT

DOORS RATED FOR LARGE AND SMALL MISSILE IMPACT.  
IMPACT SHUTTERS ARE NOT REQUIRED.

LAMINATED GLASS AND INSULATED-LAMINATED GLASS LARGE  
AND SMALL MISSILE IMPACT.

SERIES SGD 2020 SLIDING GLASS DOOR

APPLICABLE EGRESS REQUIREMENTS PER FBC TO BE REVIEWED BY BUILDING OFFICIAL.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF  
THE FLORIDA BUILDING CODE 8TH EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE  
ZONE (HVHZ).

THESE DOORS ARE APPROVED FOR AIR AND WATER INFILTRATION.

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  
FLORIDA BUILDING CODE 8TH EDITION (2023) SECTION AS APPLICABLE.

METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY  
THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

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.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS

STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY,  
BLDG HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.

STEP 2 SEE ALLOWABLE CONFIGURATIONS ON SHEETS E6 THROUGH E12. SEE  
CHARTS ON SHEET G1 FOR ALLOWABLE DESIGN LOAD BASED ON  
DESIRED GLASS TYPE. SEE CHARTS ON SHEET K1 FOR INTERLOCK DESIGN  
LOAD. SEE SHEET K2 FOR SILL RAISER OPTION FOR WATER INFILTRATION.

STEP 3 FOR FREESTANDING JAMB USED AT 2 TRACK OR 3 TRACK, SEE CHARTS  
ON SHEET J1 AND J2 FOR REINFORCING LEVEL AND CAPACITIES.

STEP 4 FOR ANCHORED JAMB, SEE OPTIONS AND SPACING ON SHEETS J3 AND  
J4.

STEP 5 USING CHARTS ON SHEET A1 SELECT ANCHOR OPTION WITH  
DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 6 THE LOWEST VALUE RESULTING FROM STEPS 2 THRU 5 SHALL  
APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

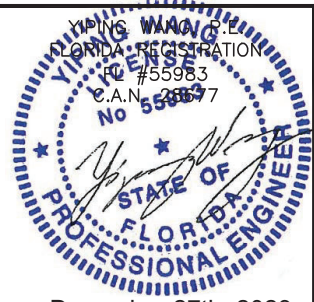
|                          |                           |
|--------------------------|---------------------------|
| D.L.O. - DAYLITE OPENING | CL - CENTER LINE          |
| F.H. - FRAME HEIGHT      | S.S. - STAINLESS STEEL    |
| F.W. - FRAME WIDTH       | H.S. - HEAT STRENGTHENED  |
| LG. - LONG               | SSG - STRUCTURAL SILICONE |
| STL. - STEEL             | GLAZED                    |
| ALUM. - ALUMINUM         | TEMP. - TEMPERED          |
| MULL. - MULLION          | O.C. - ON CENTER          |
| HORIZ. - HORIZONTAL      | G.B. - GLASS BITE         |
| W/ - WITH                | SECTION NUMBER            |
| W/O - WITHOUT            |                           |
| VERT. - VERTICAL         |                           |
| T.H.- TRANSOM HEIGHT     |                           |



FL #22267

LIMITATIONS OF USE

- A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.
- E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

MCY ENGINEERING, INC.  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

| Rev | Date       | Drawn By | Description |
|-----|------------|----------|-------------|
| No. | 12.04.2023 | James    | REVISION    |

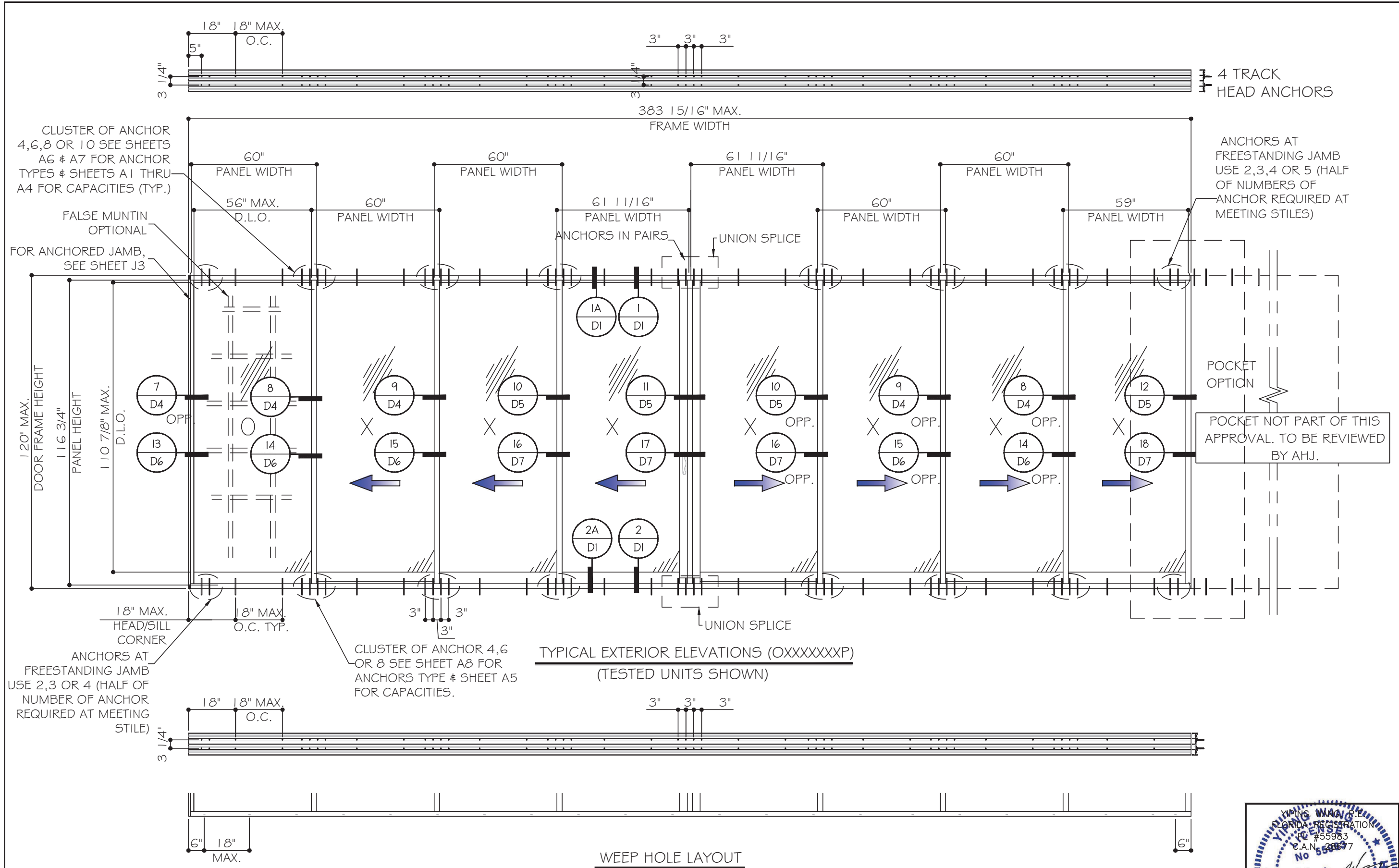
Drawn Date  
12.04.2023

Scale  
AS SHOWN

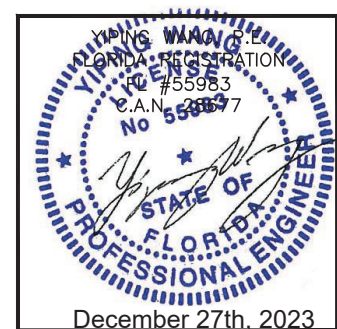
DRAWING NO.  
AD16-29

COVER

Sheet No.  
01 OF 59



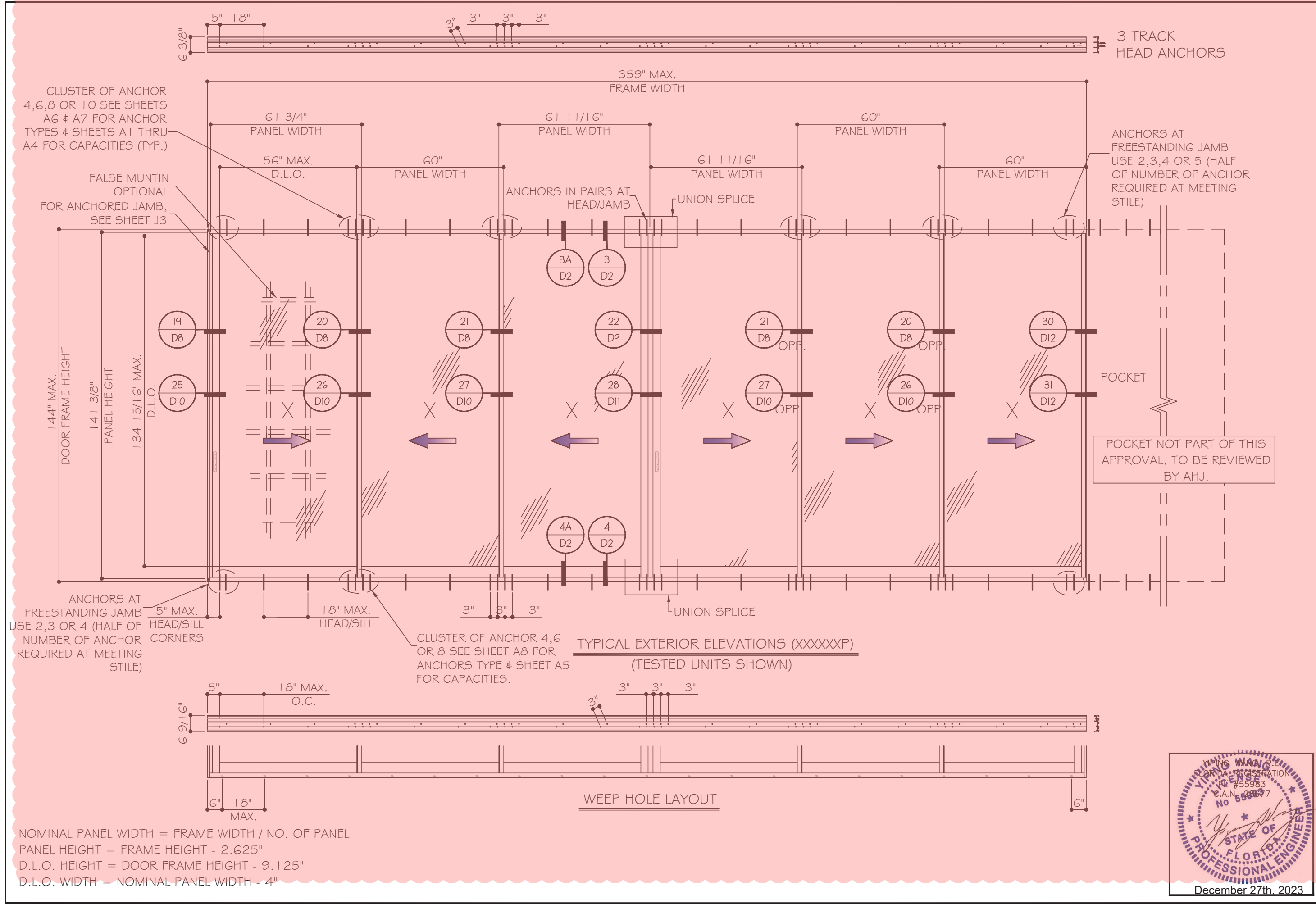
NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL  
PANEL HEIGHT = FRAME HEIGHT - 2.625"  
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9.125"  
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

**ES WINDOWS, INC.**  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL: (305) 624-7775

|                                           |            |
|-------------------------------------------|------------|
| ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI) |            |
| Drawn Date                                | 12.04.2023 |
| Scale                                     |            |
| DRAWING NO.                               |            |
| AD16-29                                   |            |
| E1                                        |            |
| Sheet No.                                 |            |
| 02 OF 59                                  |            |



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

ES-WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL: (305) 624-7775

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

| Rev | No. | Date       | Drawn By | Description |
|-----|-----|------------|----------|-------------|
| 1   | 0   | 12.04.2023 | James    |             |

Drawn Date

12.04.2023

Scale

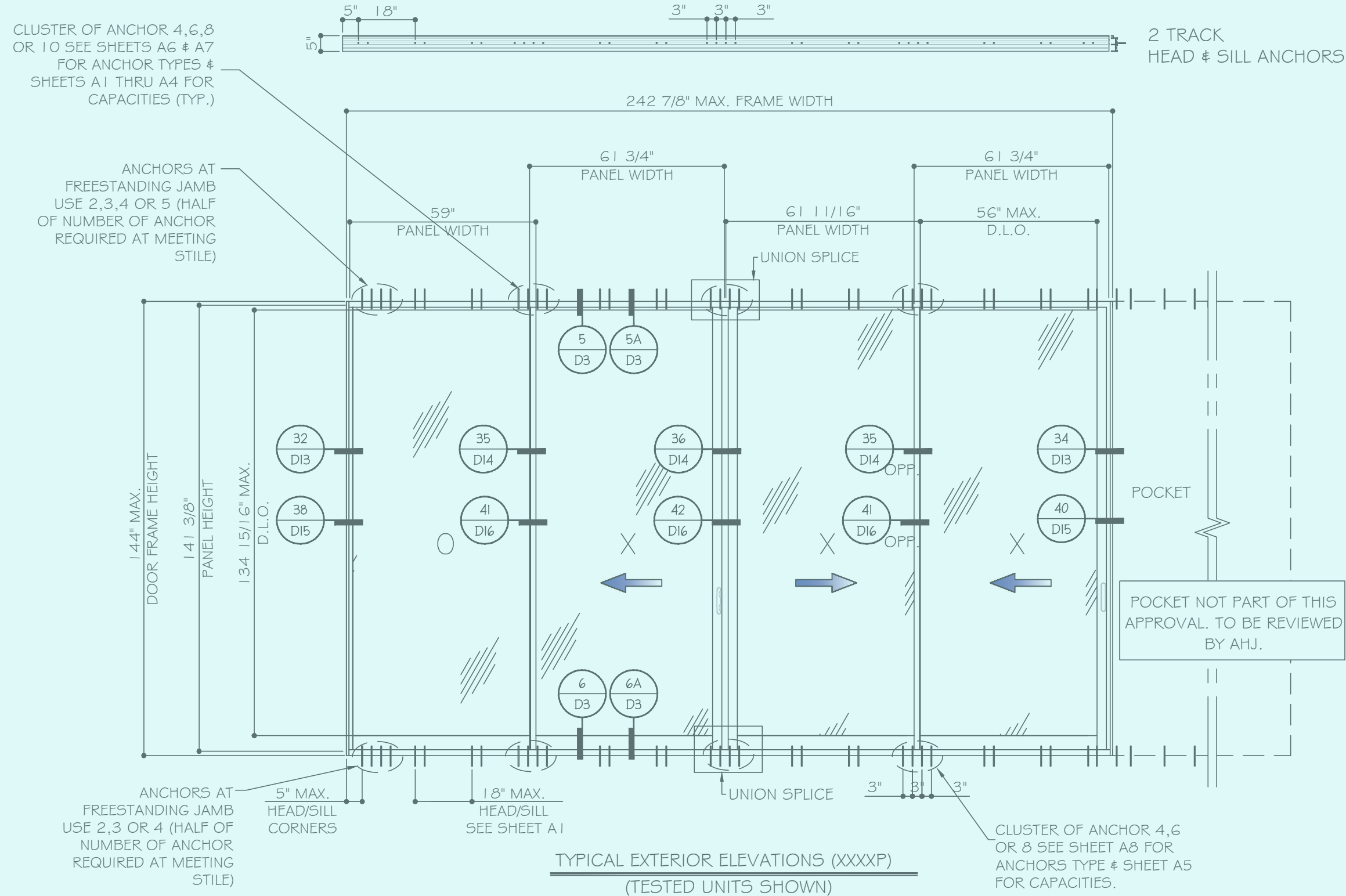
DRAWING NO.

AD16-29

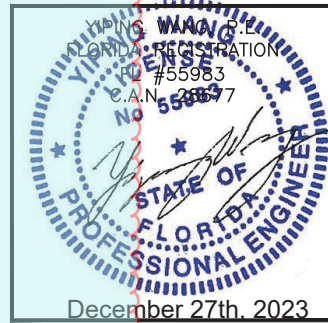
Sheet No.

E2

03 OF 59



NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL  
PANEL HEIGHT = FRAME HEIGHT - 2.625"  
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9.125"  
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

M

C

E

E

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

**ES WINDOWS, INC.**  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

| Rev | Date       | Drawn By   | Description |
|-----|------------|------------|-------------|
| No. | 12.04.2023 | James Wang | REVISION    |

Drawn Date  
12.04.2023

Scale

DRAWING NO.

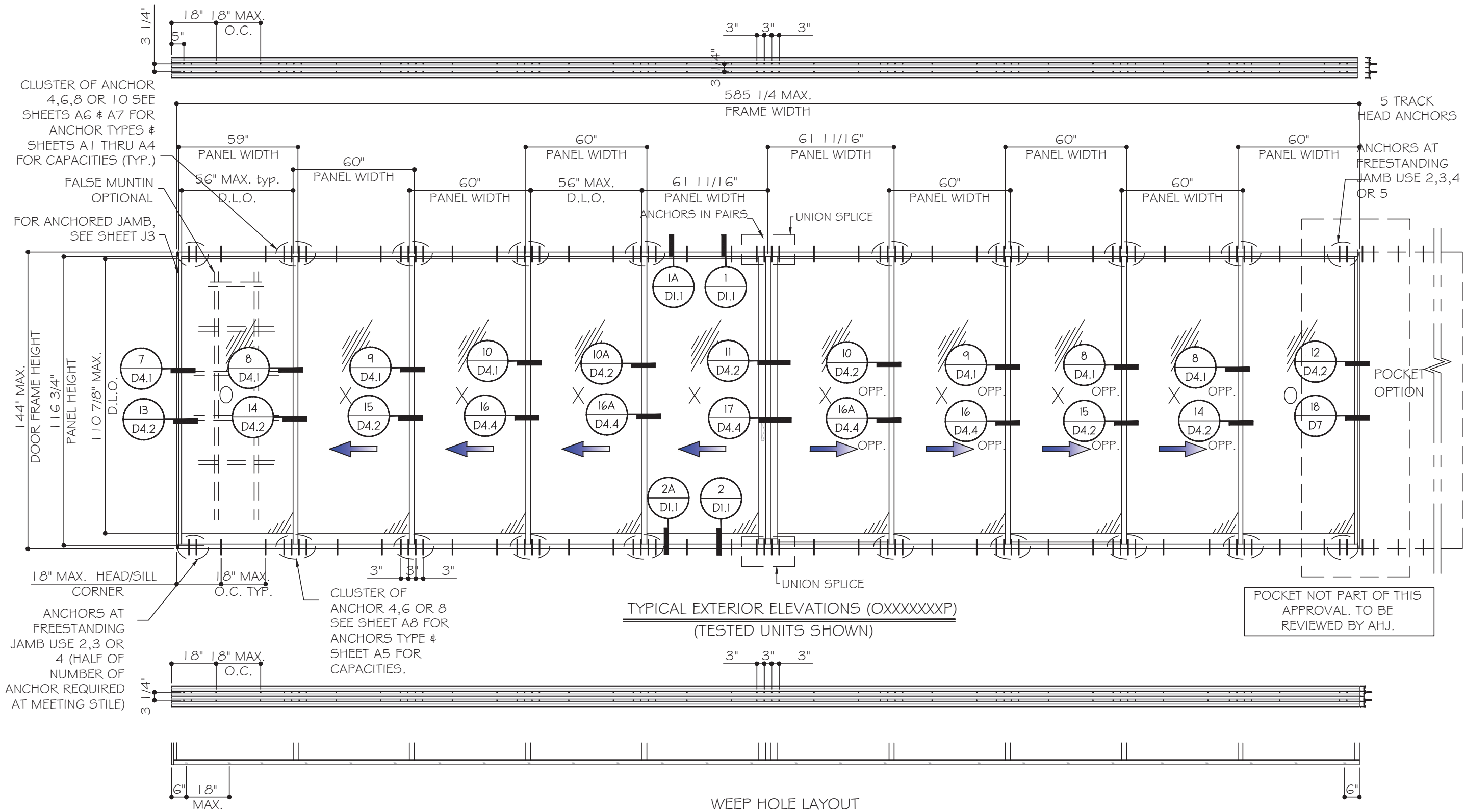
AD16-29

E3

Sheet No.

04 OF 59

December 27th, 2023



CLUSTER OF ANCHOR 4,6,8 OR 10 SEE SHEETS A6 & A7 FOR ANCHOR TYPES & SHEETS A1 THRU A4 FOR CAPACITIES (TYP.)

FALSE MUNTIN OPTIONAL

FOR ANCHORED JAMB, SEE SHEET J3

18" MAX. HEAD/SILL CORNER

ANCHORS AT FREESTANDING JAMB USE 2,3 OR 4 (HALF OF NUMBER OF ANCHOR REQUIRED AT MEETING STILE)

CLUSTER OF ANCHOR 4,6 OR 8 SEE SHEET A8 FOR ANCHORS TYPE & SHEET A5 FOR CAPACITIES.

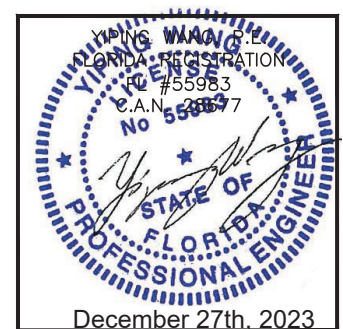
TYPICAL EXTERIOR ELEVATIONS (OXXXXXXXP)  
(TESTED UNITS SHOWN)

WEEP HOLE LAYOUT

NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL  
PANEL HEIGHT = FRAME HEIGHT - 2.625"  
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9.125"  
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"

FOR INTERLOCK CAPACITY  
SEE CHARTS  
SHEET K.1

POCKET NOT PART OF THIS APPROVAL. TO BE REVIEWED BY AHJ.



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

**ES WINDOWS, INC.**  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

| Rev. | Date       | Drawn By | Description |
|------|------------|----------|-------------|
| 1    | 12.04.2023 | James    | REVISION    |

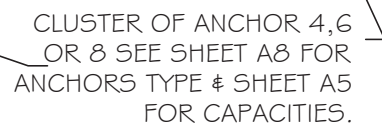
Drawn Date  
12.04.2023

Scale

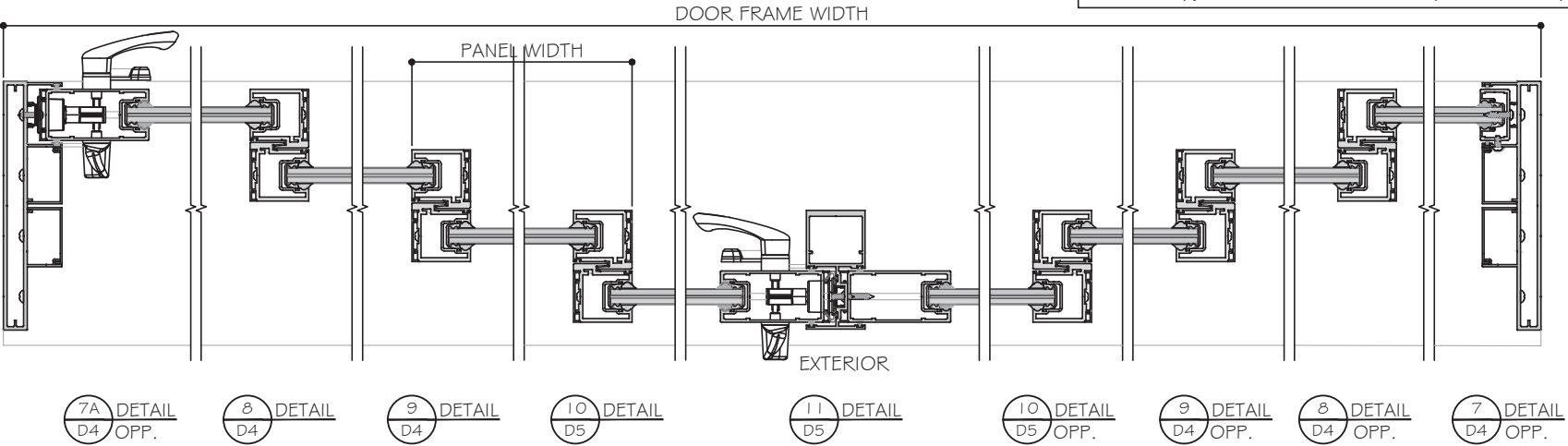
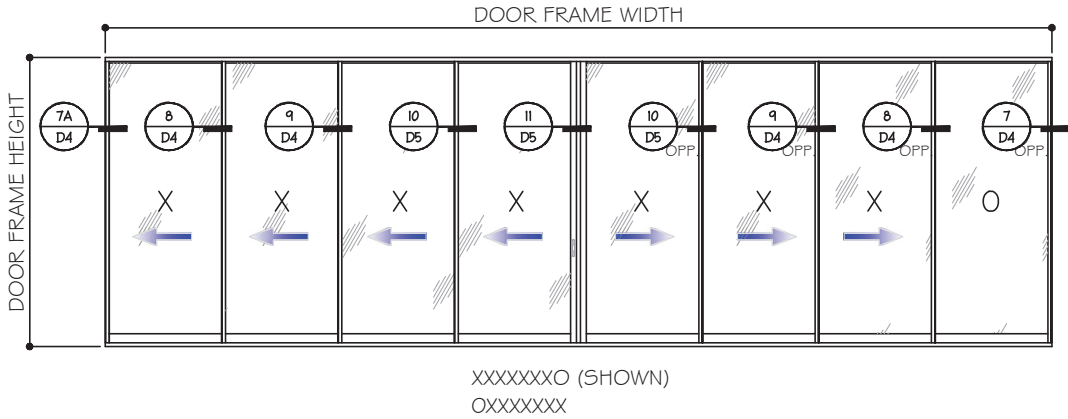
DRAWING NO.  
**AD16-29**

E4

Sheet No.  
**05 OF 59**

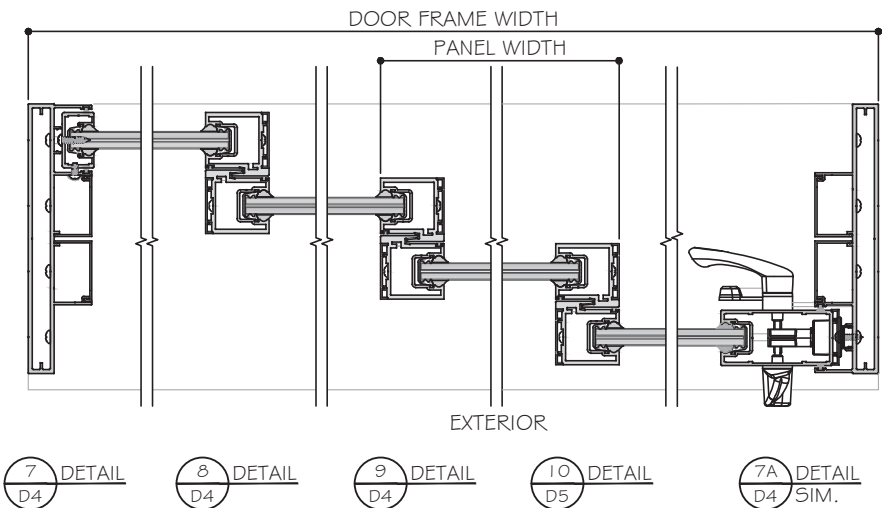
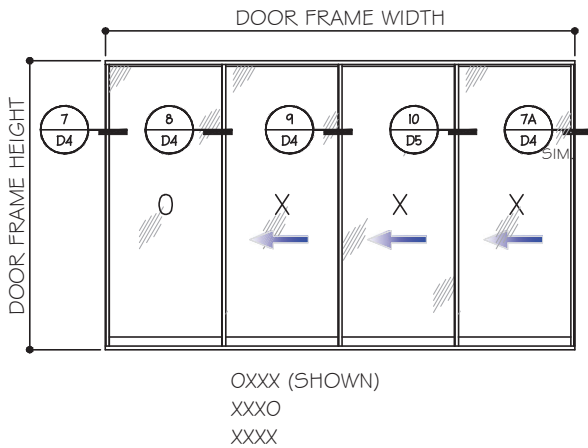
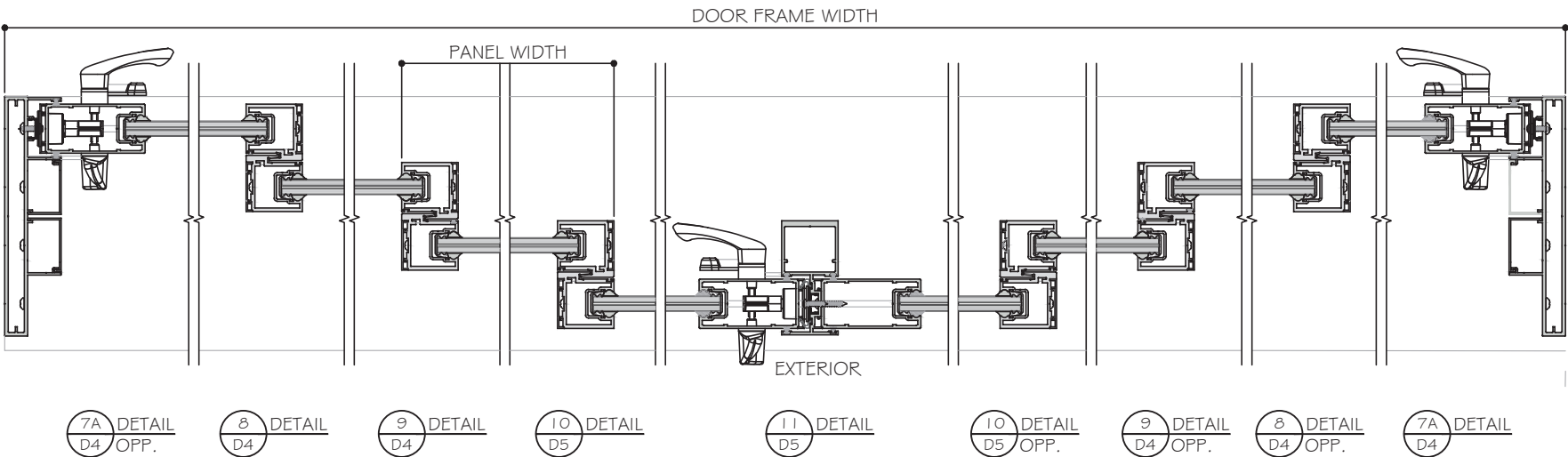
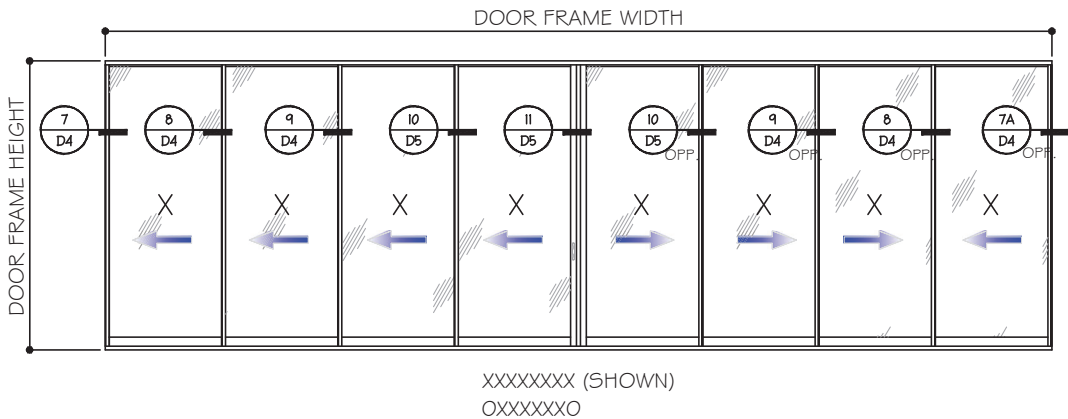


APPROVED CONFIGURATION DOORS  
(NON-REINFORCED SHOWN)  
SEE SHEET K1 FOR D<sub>p</sub> AND REINFORCING OPTIONS



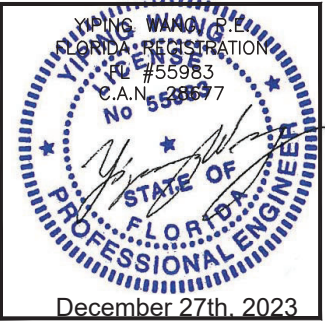
LAMINATED GLASS OPTIONS SHOWN.  
SEE DETAILS FOR INSULATED LAMINATED OPTION.

NON-REINFORCED DETAILS SHOWN.  
FOR REINFORCED DETAILS, SEE SHEET D4  
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3  
TRACKS), D13 TO D16 FOR (2 TRACKS).



- NOTES:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
  2. SEE CHART ON SHEET G1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
  3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K1.
  4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 TO A8.
  5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
  6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

FOUR (4) TRACKS

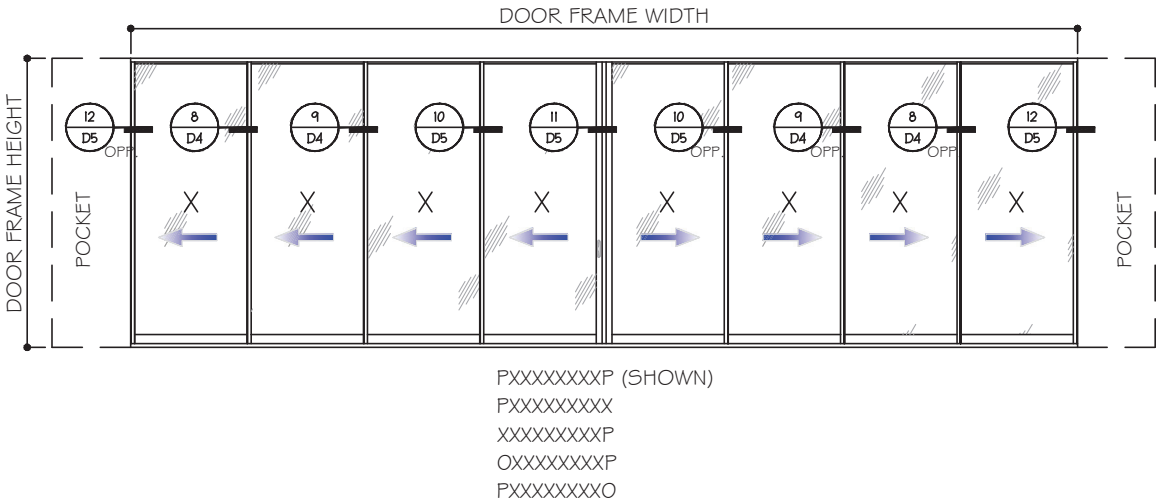
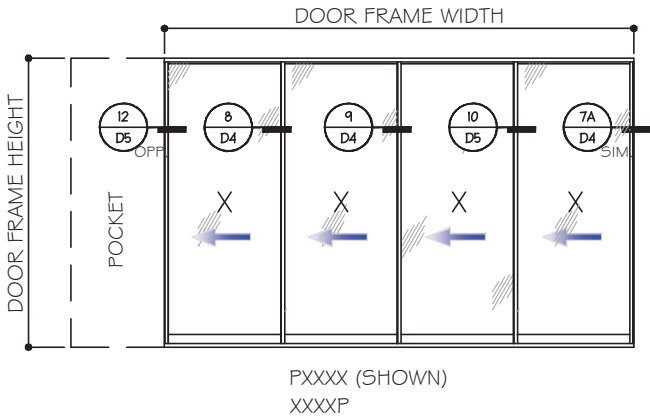


**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

**ES WINDOWS, INC.**  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

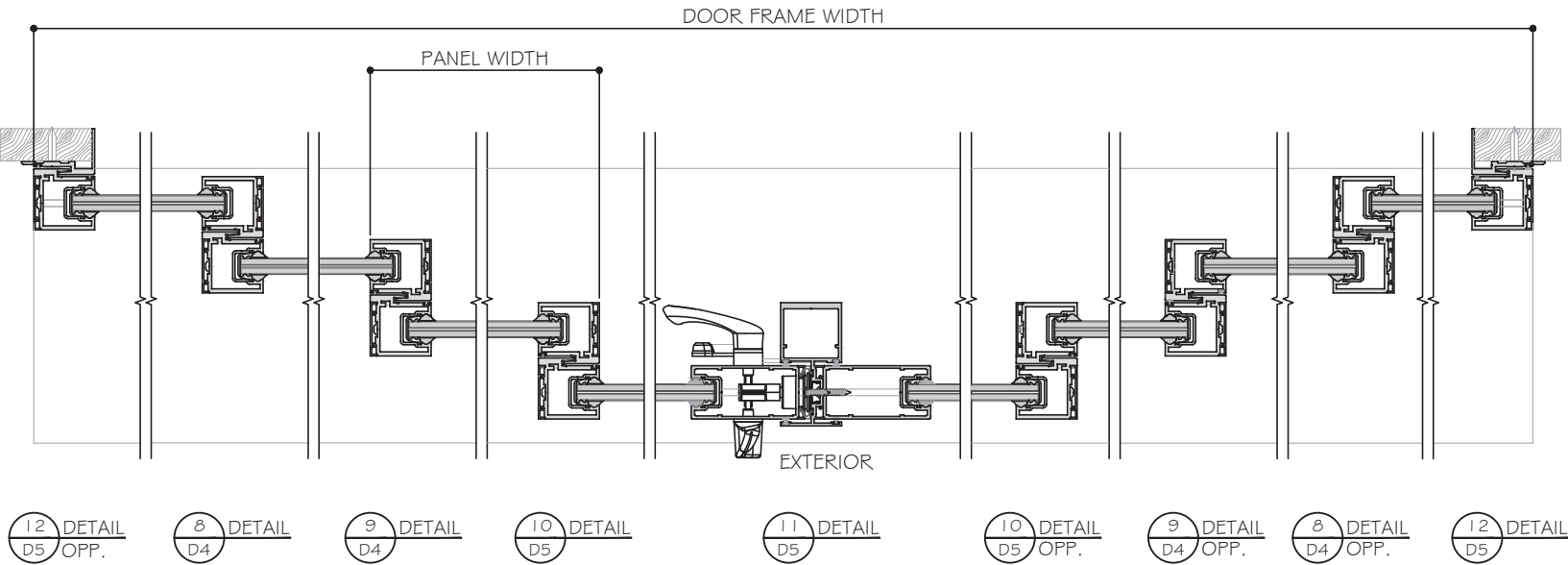
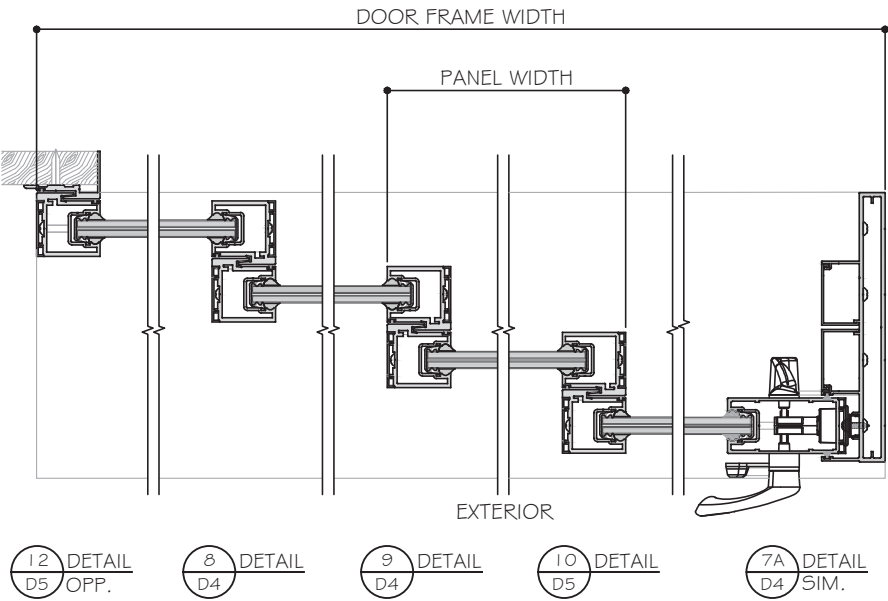
| Drawn Date  |  | Scale       |  |
|-------------|--|-------------|--|
| 12.04.2023  |  |             |  |
| Drawing No. |  | Sheet No.   |  |
| AD16-29     |  | 07 OF 59    |  |
| Rev. No.    |  | Description |  |
| 1           |  | E6          |  |
| 2           |  |             |  |
| 3           |  |             |  |
| 4           |  |             |  |
| 5           |  |             |  |
| 6           |  |             |  |
| 7           |  |             |  |
| 8           |  |             |  |
| 9           |  |             |  |
| 10          |  |             |  |
| 11          |  |             |  |
| 12          |  |             |  |
| 13          |  |             |  |
| 14          |  |             |  |
| 15          |  |             |  |
| 16          |  |             |  |
| 17          |  |             |  |
| 18          |  |             |  |
| 19          |  |             |  |
| 20          |  |             |  |
| 21          |  |             |  |
| 22          |  |             |  |
| 23          |  |             |  |
| 24          |  |             |  |
| 25          |  |             |  |
| 26          |  |             |  |
| 27          |  |             |  |
| 28          |  |             |  |
| 29          |  |             |  |
| 30          |  |             |  |
| 31          |  |             |  |
| 32          |  |             |  |
| 33          |  |             |  |
| 34          |  |             |  |
| 35          |  |             |  |
| 36          |  |             |  |
| 37          |  |             |  |
| 38          |  |             |  |
| 39          |  |             |  |
| 40          |  |             |  |
| 41          |  |             |  |
| 42          |  |             |  |
| 43          |  |             |  |
| 44          |  |             |  |
| 45          |  |             |  |
| 46          |  |             |  |
| 47          |  |             |  |
| 48          |  |             |  |
| 49          |  |             |  |
| 50          |  |             |  |
| 51          |  |             |  |
| 52          |  |             |  |
| 53          |  |             |  |
| 54          |  |             |  |
| 55          |  |             |  |
| 56          |  |             |  |
| 57          |  |             |  |
| 58          |  |             |  |
| 59          |  |             |  |
| 60          |  |             |  |
| 61          |  |             |  |
| 62          |  |             |  |
| 63          |  |             |  |
| 64          |  |             |  |
| 65          |  |             |  |
| 66          |  |             |  |
| 67          |  |             |  |
| 68          |  |             |  |
| 69          |  |             |  |
| 70          |  |             |  |
| 71          |  |             |  |
| 72          |  |             |  |
| 73          |  |             |  |
| 74          |  |             |  |
| 75          |  |             |  |
| 76          |  |             |  |
| 77          |  |             |  |
| 78          |  |             |  |
| 79          |  |             |  |
| 80          |  |             |  |
| 81          |  |             |  |
| 82          |  |             |  |
| 83          |  |             |  |
| 84          |  |             |  |
| 85          |  |             |  |
| 86          |  |             |  |
| 87          |  |             |  |
| 88          |  |             |  |
| 89          |  |             |  |
| 90          |  |             |  |
| 91          |  |             |  |
| 92          |  |             |  |
| 93          |  |             |  |
| 94          |  |             |  |
| 95          |  |             |  |
| 96          |  |             |  |
| 97          |  |             |  |
| 98          |  |             |  |
| 99          |  |             |  |
| 100         |  |             |  |

APPROVED CONFIGURATION POCKETED DOORS  
(NON-REINFORCED SHOWN)  
SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



LAMINATED GLASS OPTIONS SHOWN.  
SEE DETAILS FOR INSULATED LAMINATED OPTION.

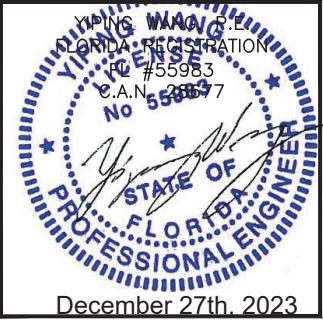
NON-REINFORCED DETAILS SHOWN.  
FOR REINFORCED DETAILS, SEE SHEET D4  
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3  
TRACKS), D13 TO D16 FOR (2 TRACKS).



- NOTES:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
  2. SEE CHART ON SHEET G1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
  3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K1.
  4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 TO A8.
  5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
  6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

FOUR (4) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL  
AND ARE TO BE REVIEWED BY AHJ.



MCY ENGINEERING, INC.  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

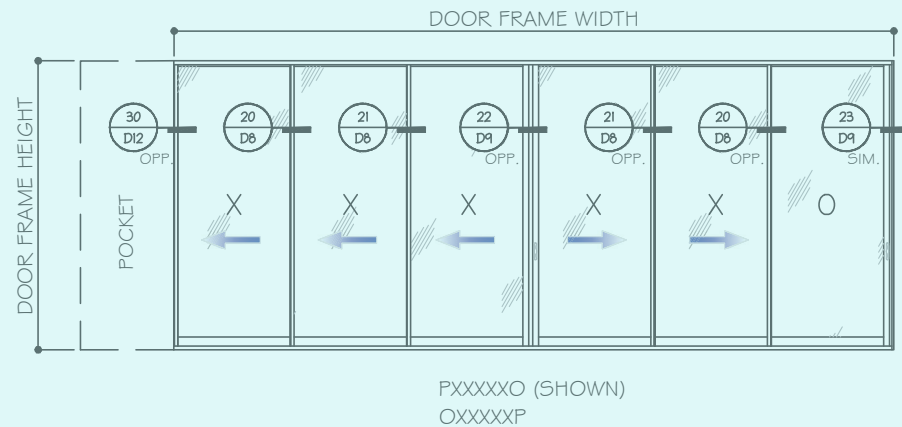
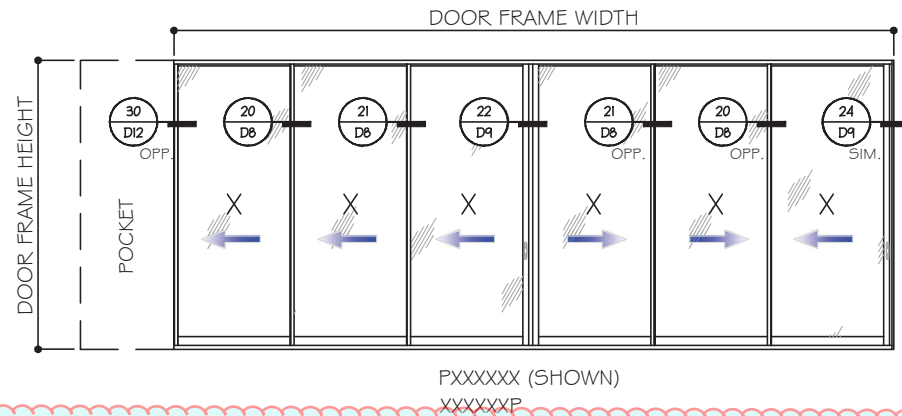
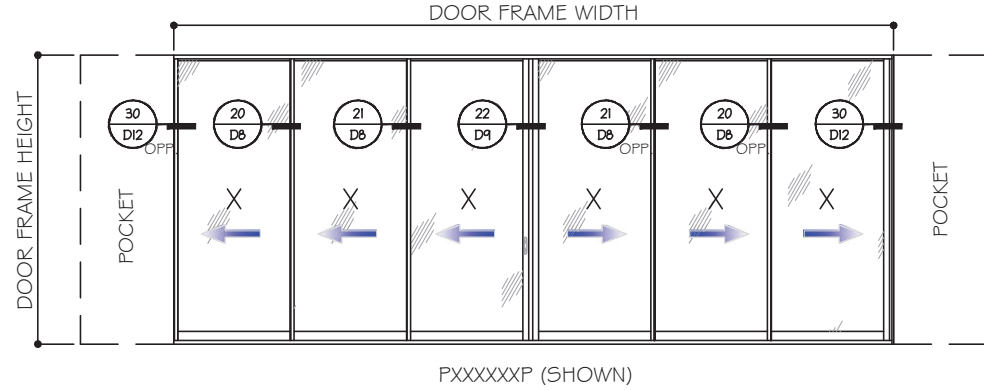
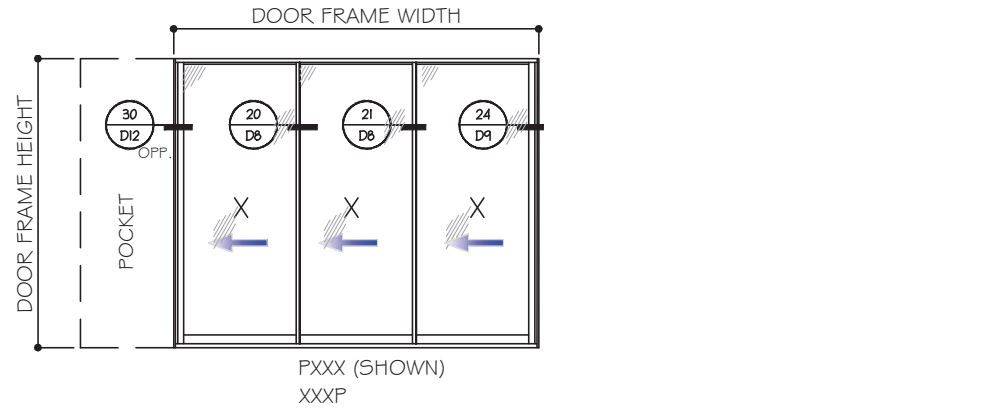
ES-WINDOWS, INC.  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL: (305) 624-7775

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

APPROVED CONFIGURATION POCKETED DOORS

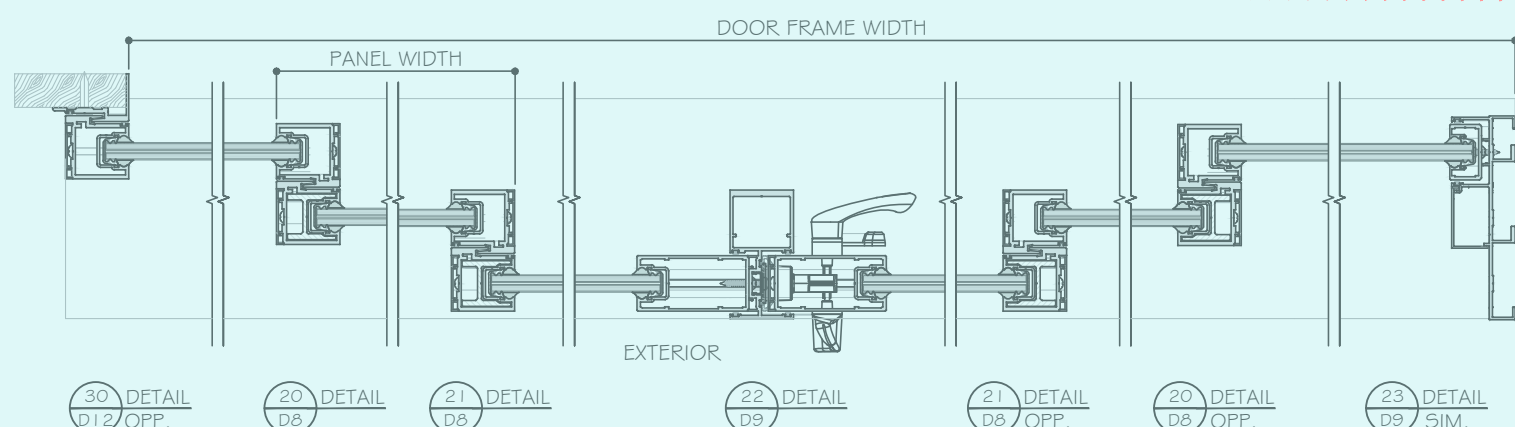
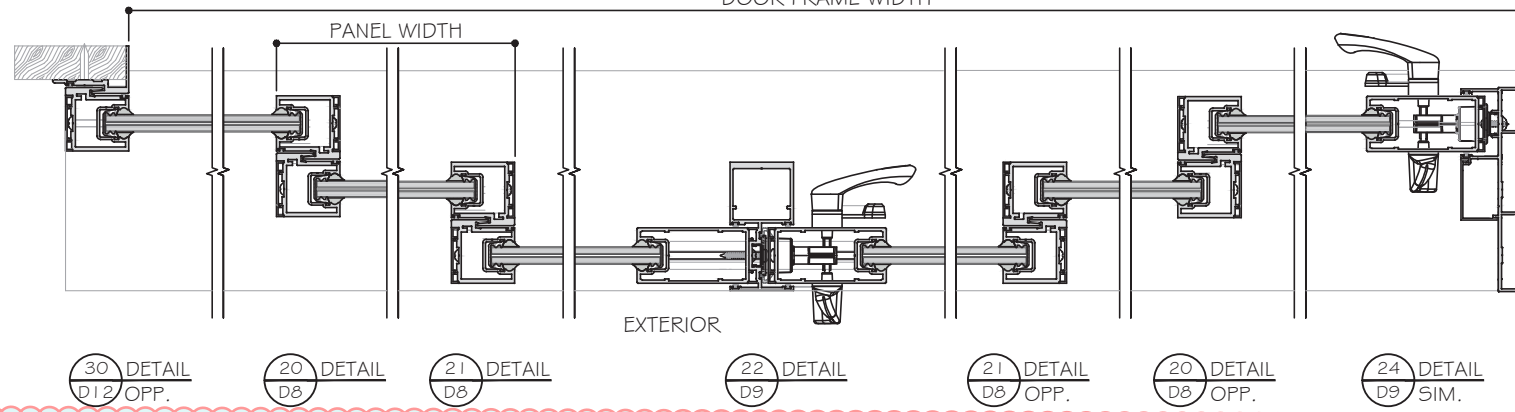
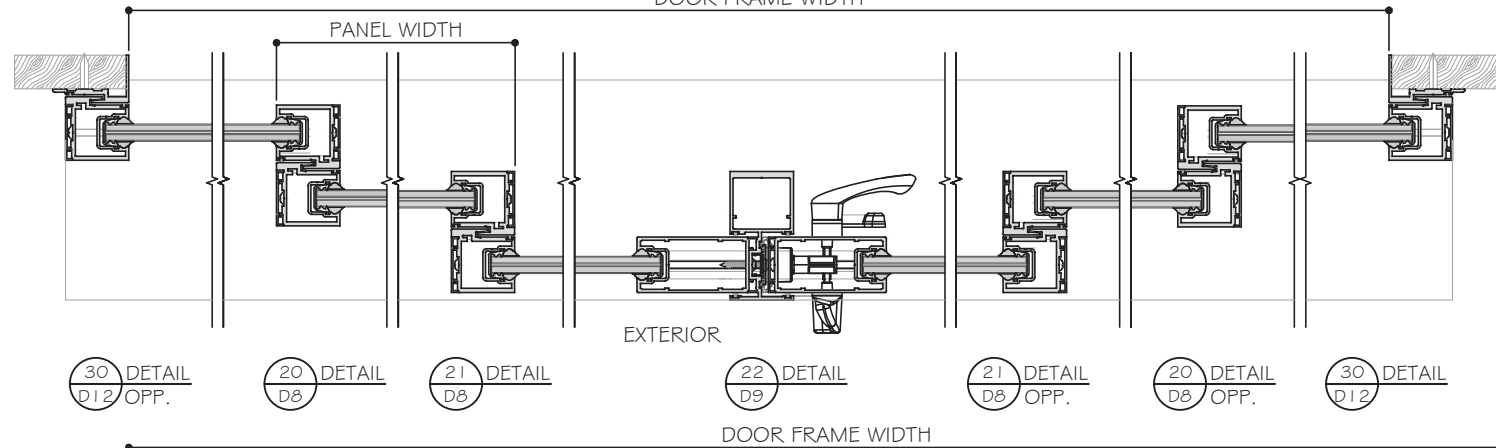
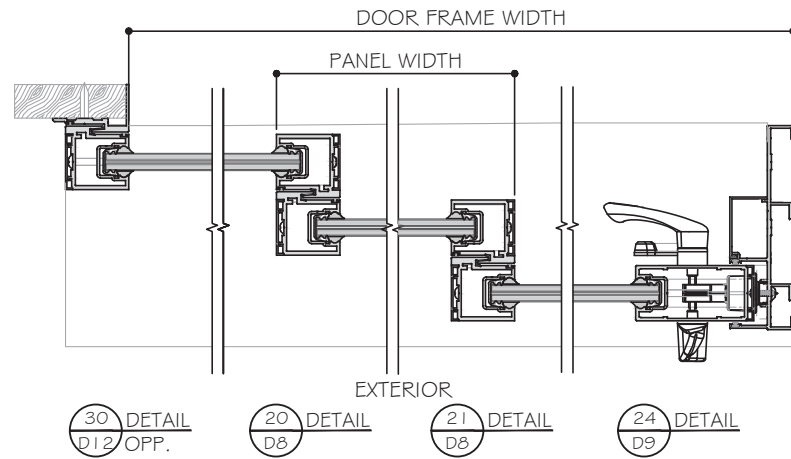
(NON-REINFORCED SHOWN)

SEE SHEET K1 FOR D<sub>p</sub> AND REINFORCING OPTIONS



THREE (3) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL  
AND ARE TO BE REVIEWED BY AHJ.

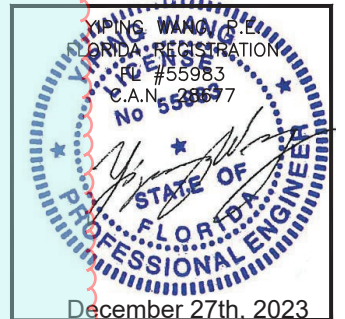


NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE CHART ON SHEET G1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K1.
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 TO A8.
5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

NON-REINFORCED DETAILS SHOWN.  
FOR REINFORCED DETAILS, SEE SHEET D4  
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3  
TRACKS), D13 TO D16 FOR (2 TRACKS).

LAMINATED GLASS OPTIONS SHOWN.  
SEE DETAILS FOR INSULATED LAMINATED OPTION.



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

**ES WINDOWS, INC.**

10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

| No. | Rev. | Date       | Drawn By | Description |
|-----|------|------------|----------|-------------|
| 1   |      | 12.04.2023 | James    | REVISION    |

Drawn Date: 12.04.2023  
Scale:

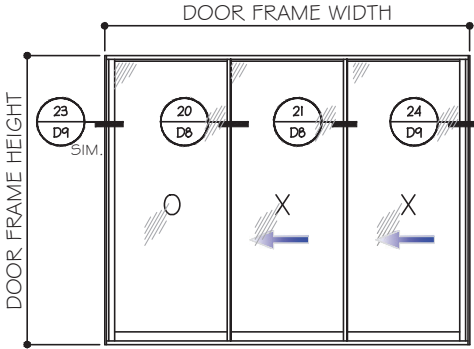
DRAWING NO.

AD16-29

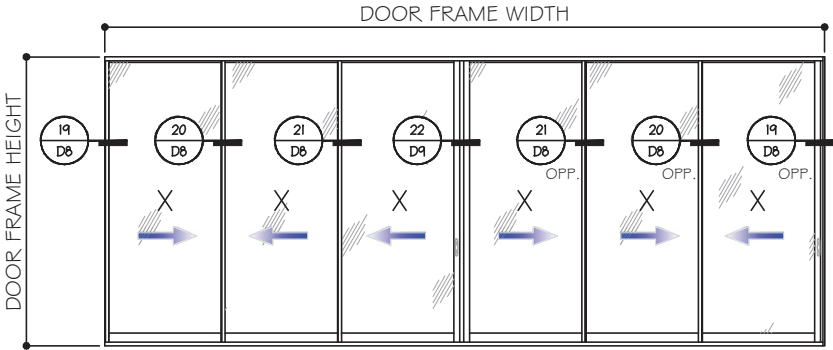
E8

Sheet No.  
09 OF 59

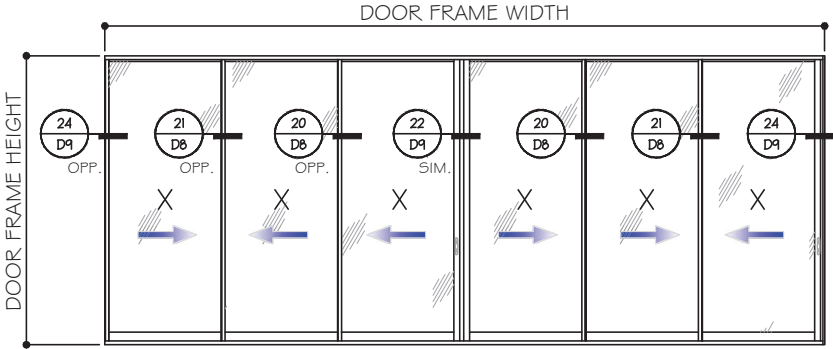
APPROVED CONFIGURATION DOORS  
(NON-REINFORCED SHOWN)  
SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



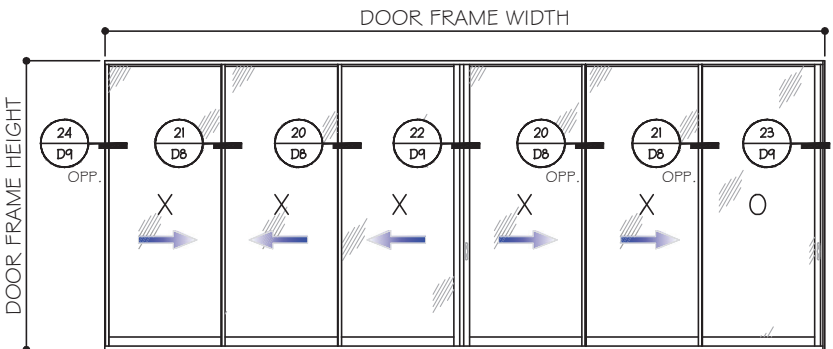
OXX (SHOWN)  
XXO  
XXX (# REVERSE)



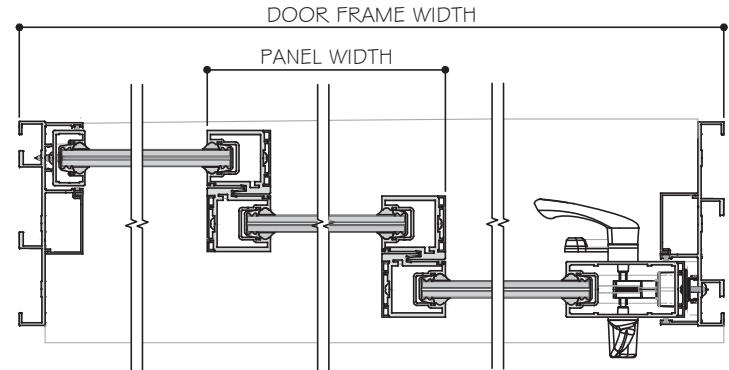
XXXXXX (SHOWN)  
OXXXXO



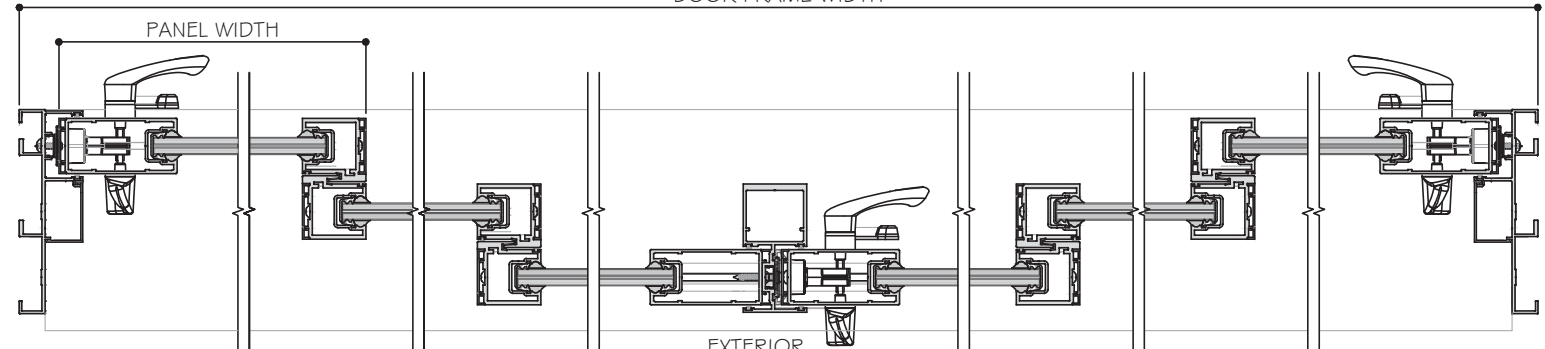
XXXXXX (SHOWN)



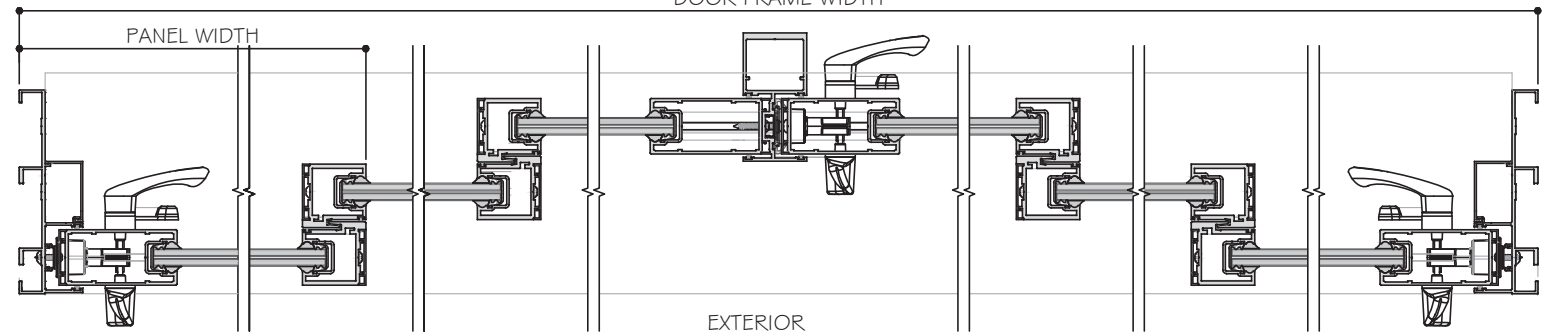
XXXXXO (SHOWN)  
OXXXXO



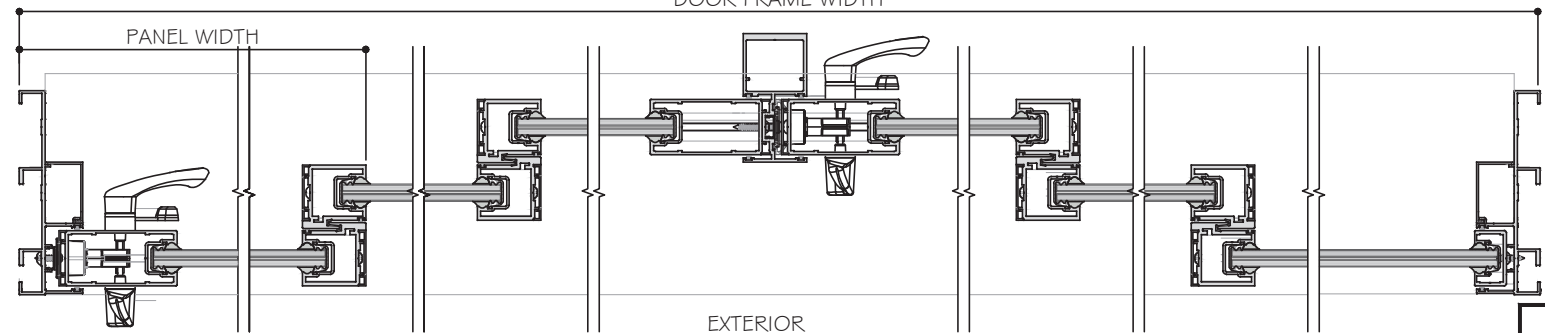
23 D9 SIM. DETAIL  
20 D8 DETAIL  
21 D8 DETAIL  
24 D9 DETAIL



19 D8 DETAIL  
20 D8 DETAIL  
21 D8 DETAIL  
22 D9 DETAIL  
21 D8 OPP. DETAIL  
20 D8 OPP. DETAIL  
19 D8 OPP. DETAIL



24 D9 OPP. DETAIL  
21 D8 OPP. DETAIL  
20 D8 OPP. DETAIL  
22 D9 SIM. DETAIL  
20 D8 DETAIL  
21 D8 DETAIL  
24 D9 DETAIL



24 D9 OPP. DETAIL  
21 D8 OPP. DETAIL  
20 D8 OPP. DETAIL  
22 D9 SIM. DETAIL  
20 D8 DETAIL  
21 D8 DETAIL  
23 D9 DETAIL

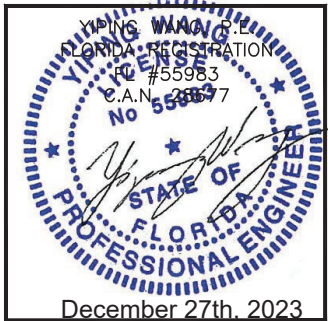
NON-REINFORCED DETAILS SHOWN.  
FOR REINFORCED DETAILS, SEE SHEET D4  
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3  
TRACKS), D13 TO D16 FOR (2 TRACKS).

LAMINATED GLASS OPTIONS SHOWN.  
SEE DETAILS FOR INSULATED LAMINATED OPTION.

- NOTES:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
  2. SEE CHART ON SHEET G1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
  3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K1.
  4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 TO A8.
  5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
  6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

THREE (3) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL  
AND ARE TO BE REVIEWED BY AHJ.



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

ES-WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL. (305) 624-7775

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

| Rev. | Date       | Drawn By | Description |
|------|------------|----------|-------------|
| 1    | 12.04.2023 | James    |             |

Drawn Date

12.04.2023

Scale

DRAWING NO.

AD16-29

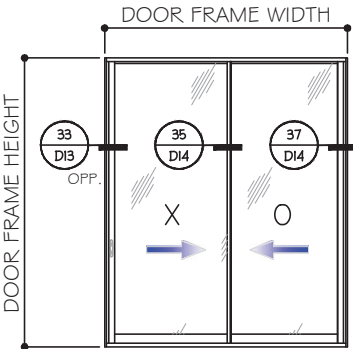
Sheet No.

10 OF 59

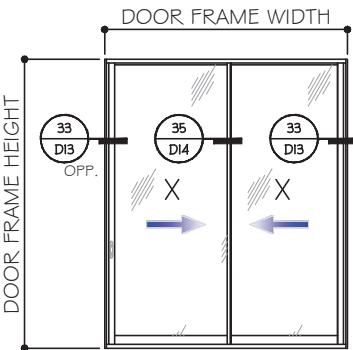
APPROVED CONFIGURATION DOORS

(NON-REINFORCED SHOWN)

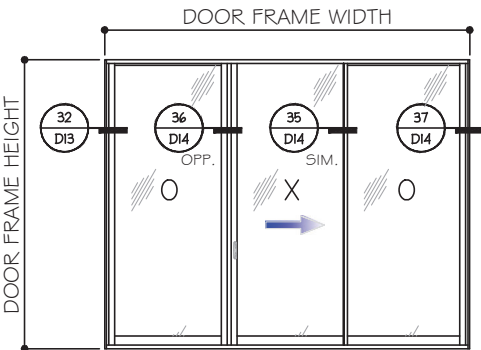
SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



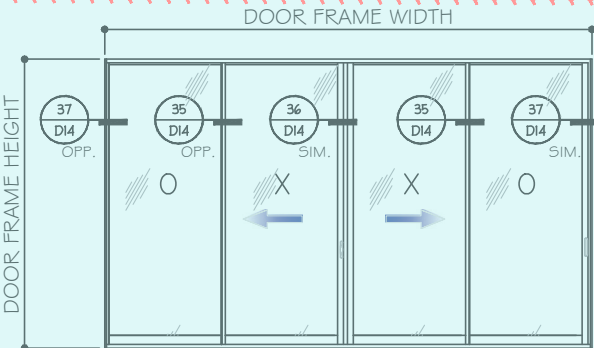
XO (SHOWN)  
OX



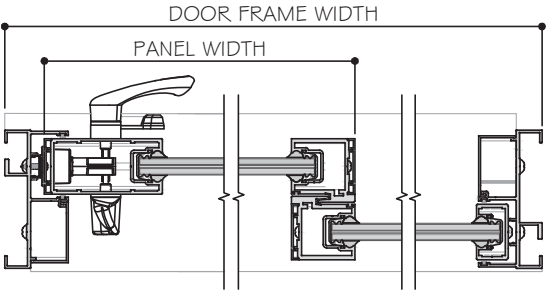
XX



OXO (SHOWN)  
OXO (REVERSE)



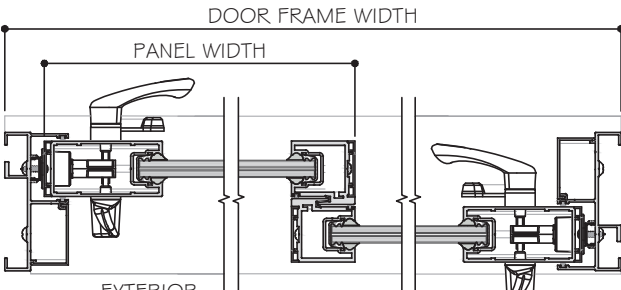
OXXO (SHOWN)  
XXXX (SIMILAR)



33 D13 OPP. DETAIL

35 D14 DETAIL

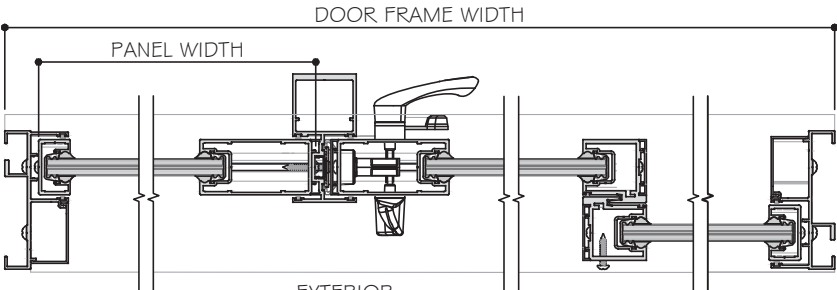
37 D14 DETAIL



33 D13 OPP. DETAIL

35 D14 DETAIL

33 D13 SIM. DETAIL

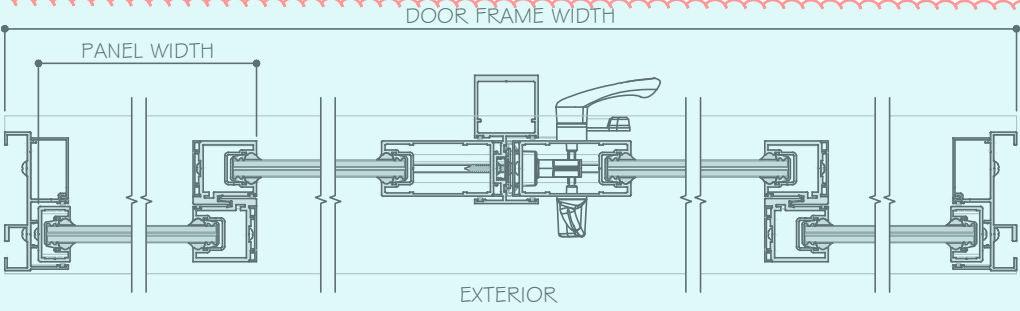


32 D13 DETAIL

36 D14 OPP. DETAIL

35 D14 SIM. DETAIL

37 D14 DETAIL



37 D14 OPP. DETAIL

35 D14 OPP. DETAIL

36 D14 SIM. DETAIL

35 D14 DETAIL

37 D14 DETAIL

NOTES:

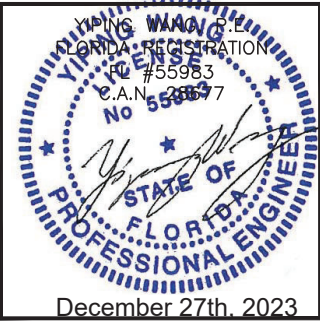
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE CHART ON SHEET G1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K1.
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 TO A8.
5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

LAMINATED GLASS OPTIONS SHOWN.  
SEE DETAILS FOR INSULATED LAMINATED OPTION.

NON-REINFORCED DETAILS SHOWN.  
FOR REINFORCED DETAILS, SEE SHEET D4  
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3  
TRACKS), D13 TO D16 FOR (2 TRACKS).

TWO (2) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL  
AND ARE TO BE REVIEWED BY AHJ.



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

**ES WINDOWS, INC.**  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

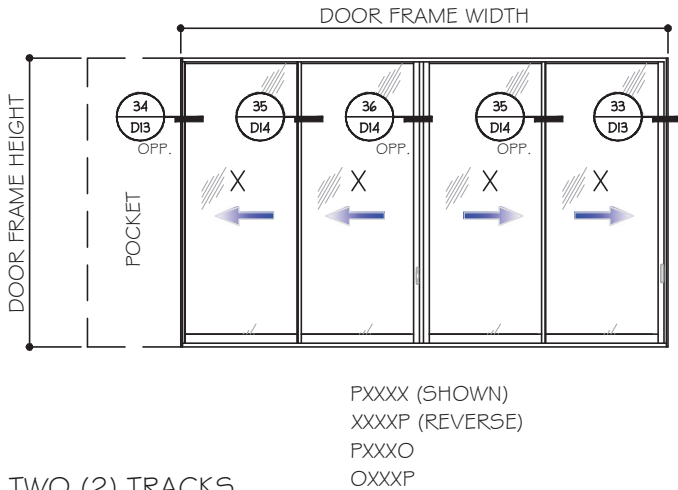
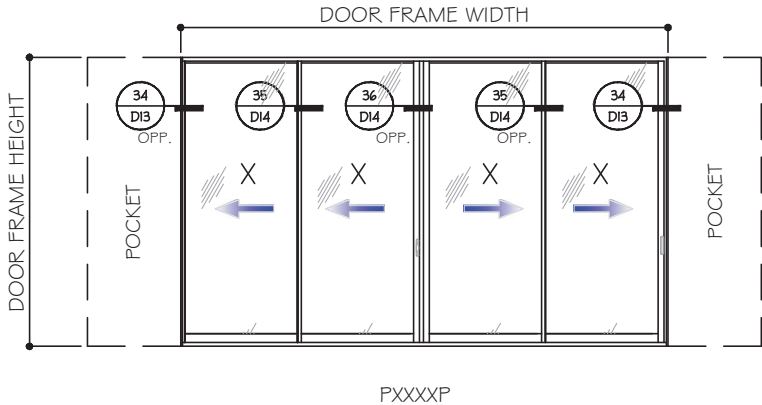
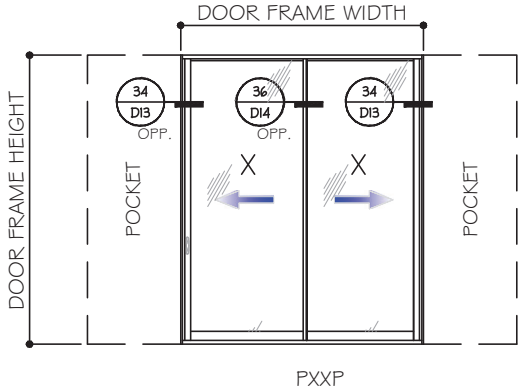
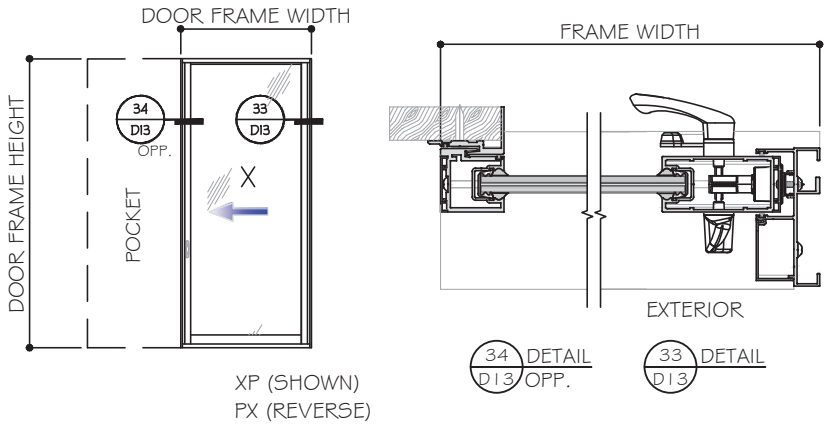
| Rev. No. | Date       | Drawn By | Description |
|----------|------------|----------|-------------|
| 1        | 12.04.2023 | James    | REVISION    |
| 2        |            |          |             |
| 3        |            |          |             |
| 4        |            |          |             |
| 5        |            |          |             |
| 6        |            |          |             |
| 7        |            |          |             |
| 8        |            |          |             |
| 9        |            |          |             |
| 10       |            |          |             |
| 11       |            |          |             |
| 12       |            |          |             |
| 13       |            |          |             |
| 14       |            |          |             |
| 15       |            |          |             |
| 16       |            |          |             |
| 17       |            |          |             |
| 18       |            |          |             |
| 19       |            |          |             |
| 20       |            |          |             |
| 21       |            |          |             |
| 22       |            |          |             |
| 23       |            |          |             |
| 24       |            |          |             |
| 25       |            |          |             |
| 26       |            |          |             |
| 27       |            |          |             |
| 28       |            |          |             |
| 29       |            |          |             |
| 30       |            |          |             |
| 31       |            |          |             |
| 32       |            |          |             |
| 33       |            |          |             |
| 34       |            |          |             |
| 35       |            |          |             |
| 36       |            |          |             |
| 37       |            |          |             |
| 38       |            |          |             |
| 39       |            |          |             |
| 40       |            |          |             |
| 41       |            |          |             |
| 42       |            |          |             |
| 43       |            |          |             |
| 44       |            |          |             |
| 45       |            |          |             |
| 46       |            |          |             |
| 47       |            |          |             |
| 48       |            |          |             |
| 49       |            |          |             |
| 50       |            |          |             |
| 51       |            |          |             |
| 52       |            |          |             |
| 53       |            |          |             |
| 54       |            |          |             |
| 55       |            |          |             |
| 56       |            |          |             |
| 57       |            |          |             |
| 58       |            |          |             |
| 59       |            |          |             |
| 60       |            |          |             |
| 61       |            |          |             |
| 62       |            |          |             |
| 63       |            |          |             |
| 64       |            |          |             |
| 65       |            |          |             |
| 66       |            |          |             |
| 67       |            |          |             |
| 68       |            |          |             |
| 69       |            |          |             |
| 70       |            |          |             |
| 71       |            |          |             |
| 72       |            |          |             |
| 73       |            |          |             |
| 74       |            |          |             |
| 75       |            |          |             |
| 76       |            |          |             |
| 77       |            |          |             |
| 78       |            |          |             |
| 79       |            |          |             |
| 80       |            |          |             |
| 81       |            |          |             |
| 82       |            |          |             |
| 83       |            |          |             |
| 84       |            |          |             |
| 85       |            |          |             |
| 86       |            |          |             |
| 87       |            |          |             |
| 88       |            |          |             |
| 89       |            |          |             |
| 90       |            |          |             |
| 91       |            |          |             |
| 92       |            |          |             |
| 93       |            |          |             |
| 94       |            |          |             |
| 95       |            |          |             |
| 96       |            |          |             |
| 97       |            |          |             |
| 98       |            |          |             |
| 99       |            |          |             |
| 100      |            |          |             |

Drawn Date: 12.04.2023  
Scale:  
DRAWING NO.: AD16-29  
E10  
Sheet No.: 11 OF 59

APPROVED CONFIGURATION POCKETED DOORS

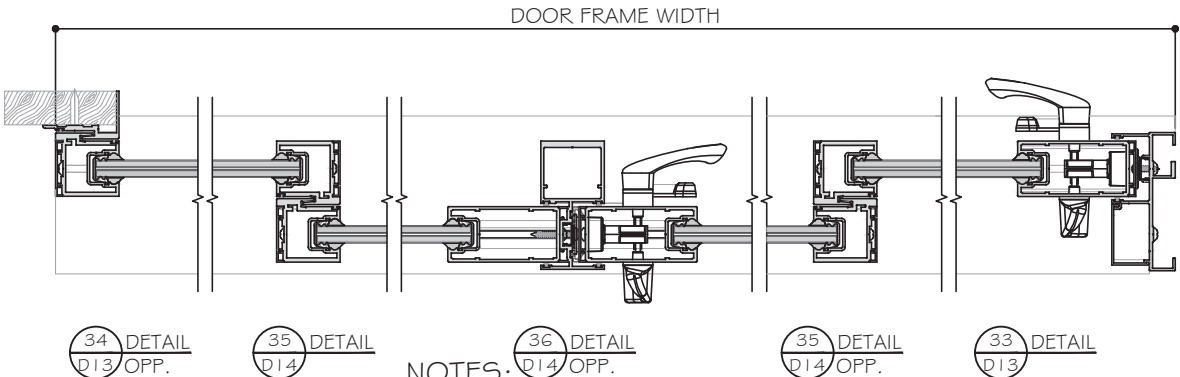
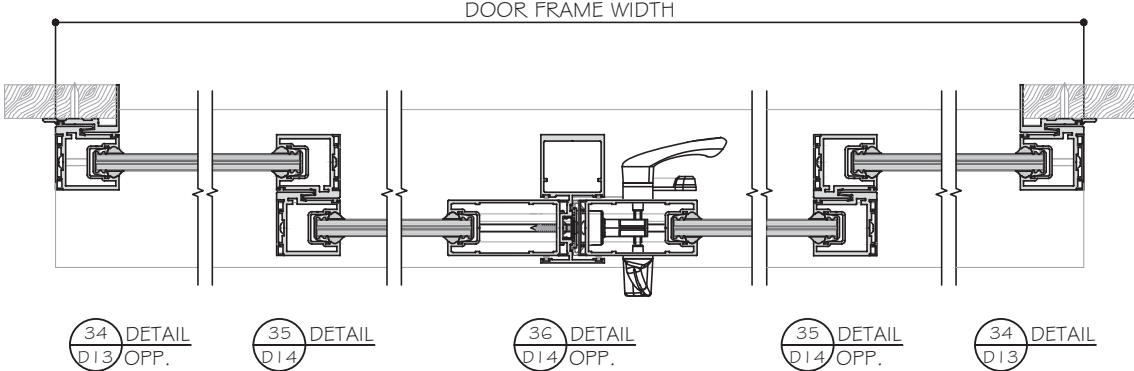
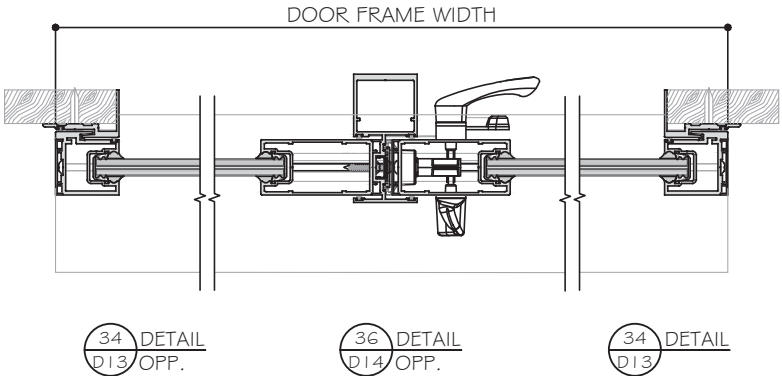
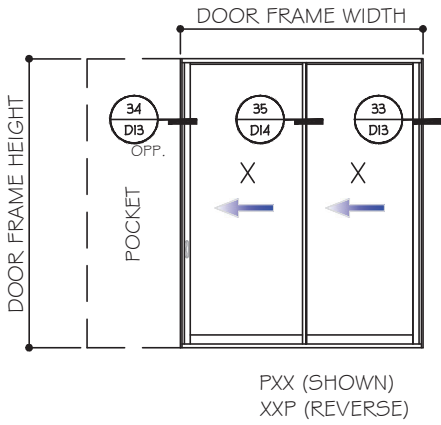
(NON-REINFORCED SHOWN)

SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



TWO (2) TRACKS

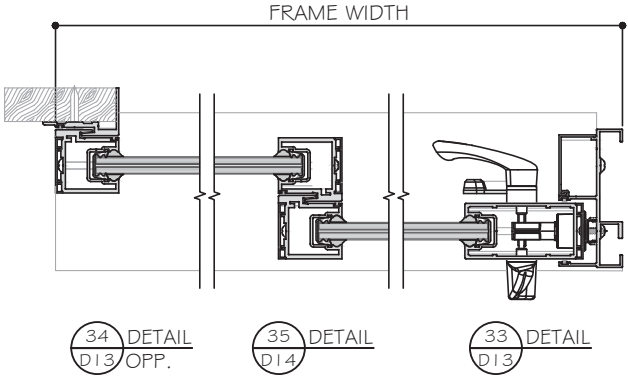
POCKETS ARE NOT PART OF THIS APPROVAL  
AND ARE TO BE REVIEWED BY AHJ.



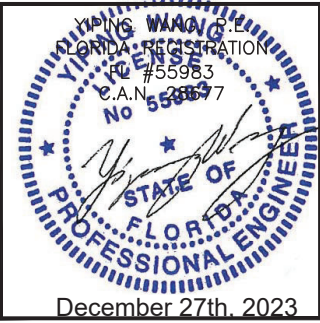
NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE CHART ON SHEET G1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K1.
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 TO A8.
5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

LAMINATED GLASS OPTIONS SHOWN.  
SEE DETAILS FOR INSULATED LAMINATED OPTION.



NON-REINFORCED DETAILS SHOWN.  
FOR REINFORCED DETAILS, SEE SHEET D4  
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3  
TRACKS), D13 TO D16 FOR (2 TRACKS).



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

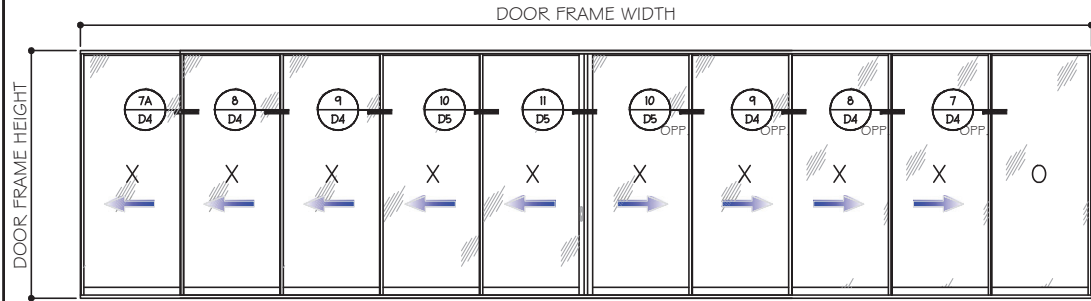
**ES WINDOWS, INC.**  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

| Rev. No. | Date       | Drawn By | Description |
|----------|------------|----------|-------------|
| 1        | 12.04.2023 | James    | REVISION    |
| 2        |            |          |             |
| 3        |            |          |             |
| 4        |            |          |             |
| 5        |            |          |             |
| 6        |            |          |             |
| 7        |            |          |             |
| 8        |            |          |             |
| 9        |            |          |             |
| 10       |            |          |             |
| 11       |            |          |             |
| 12       |            |          |             |
| 13       |            |          |             |
| 14       |            |          |             |
| 15       |            |          |             |
| 16       |            |          |             |
| 17       |            |          |             |
| 18       |            |          |             |
| 19       |            |          |             |
| 20       |            |          |             |
| 21       |            |          |             |
| 22       |            |          |             |
| 23       |            |          |             |
| 24       |            |          |             |
| 25       |            |          |             |
| 26       |            |          |             |
| 27       |            |          |             |
| 28       |            |          |             |
| 29       |            |          |             |
| 30       |            |          |             |
| 31       |            |          |             |
| 32       |            |          |             |
| 33       |            |          |             |
| 34       |            |          |             |
| 35       |            |          |             |
| 36       |            |          |             |
| 37       |            |          |             |
| 38       |            |          |             |
| 39       |            |          |             |
| 40       |            |          |             |
| 41       |            |          |             |
| 42       |            |          |             |
| 43       |            |          |             |
| 44       |            |          |             |
| 45       |            |          |             |
| 46       |            |          |             |
| 47       |            |          |             |
| 48       |            |          |             |
| 49       |            |          |             |
| 50       |            |          |             |
| 51       |            |          |             |
| 52       |            |          |             |
| 53       |            |          |             |
| 54       |            |          |             |
| 55       |            |          |             |
| 56       |            |          |             |
| 57       |            |          |             |
| 58       |            |          |             |
| 59       |            |          |             |
| 60       |            |          |             |
| 61       |            |          |             |
| 62       |            |          |             |
| 63       |            |          |             |
| 64       |            |          |             |
| 65       |            |          |             |
| 66       |            |          |             |
| 67       |            |          |             |
| 68       |            |          |             |
| 69       |            |          |             |
| 70       |            |          |             |
| 71       |            |          |             |
| 72       |            |          |             |
| 73       |            |          |             |
| 74       |            |          |             |
| 75       |            |          |             |
| 76       |            |          |             |
| 77       |            |          |             |
| 78       |            |          |             |
| 79       |            |          |             |
| 80       |            |          |             |
| 81       |            |          |             |
| 82       |            |          |             |
| 83       |            |          |             |
| 84       |            |          |             |
| 85       |            |          |             |
| 86       |            |          |             |
| 87       |            |          |             |
| 88       |            |          |             |
| 89       |            |          |             |
| 90       |            |          |             |
| 91       |            |          |             |
| 92       |            |          |             |
| 93       |            |          |             |
| 94       |            |          |             |
| 95       |            |          |             |
| 96       |            |          |             |
| 97       |            |          |             |
| 98       |            |          |             |
| 99       |            |          |             |
| 100      |            |          |             |

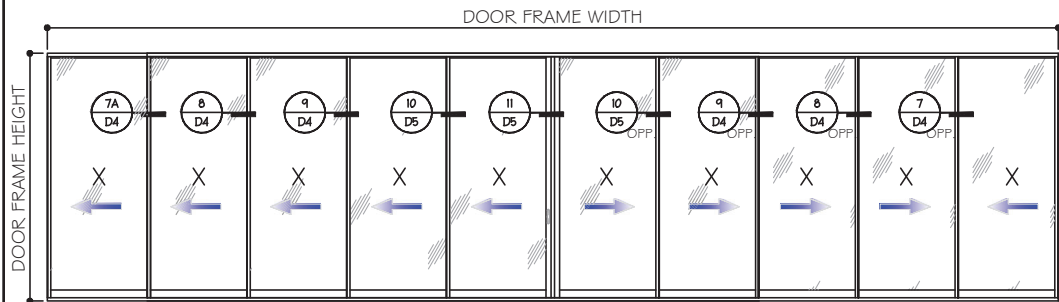
APPROVED CONFIGURATION POCKETED AND NO POCHET DOORS

(NON-REINFORCED SHOWN)

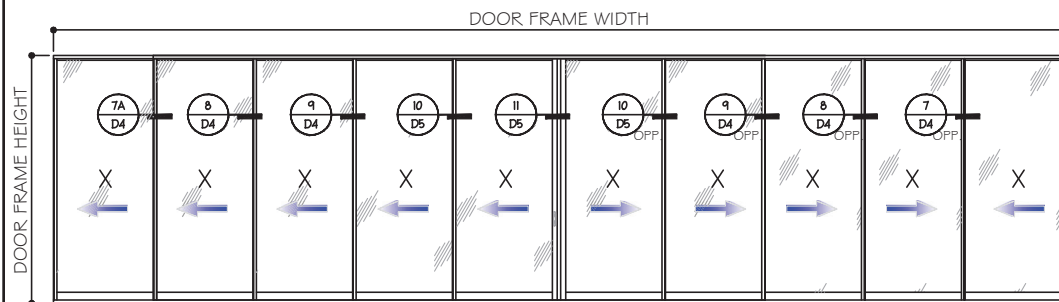
SEE SHEET K.I FOR D<sub>p</sub> AND REINFORCING OPTIONS



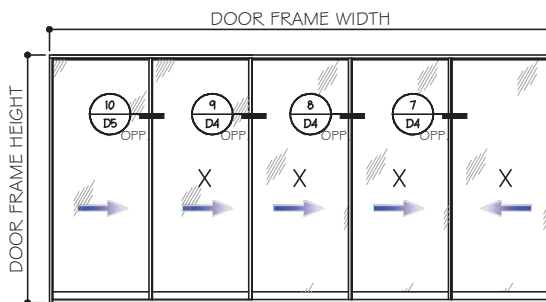
XXXXXXXO (SHOWN)  
OXXXXXXX



XXXXXXXO (SHOWN)  
OXXXXXXX



XXXXXXXO (SHOWN)  
OXXXXXXX



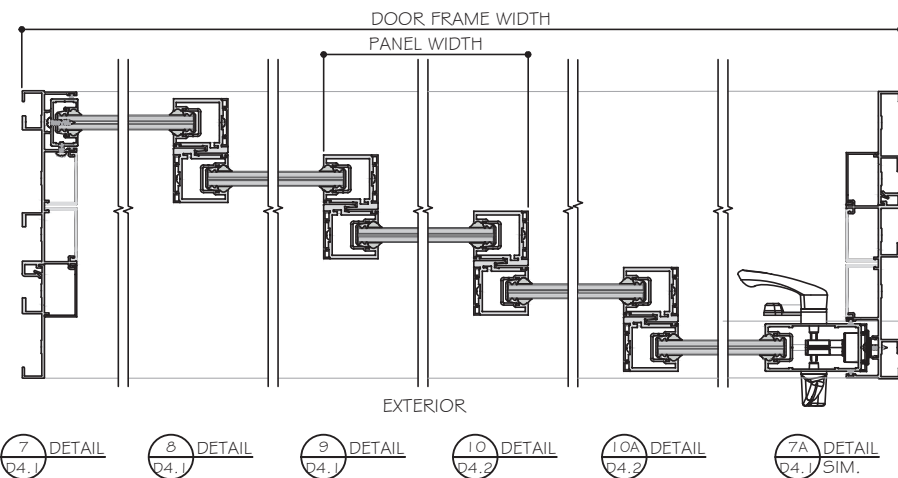
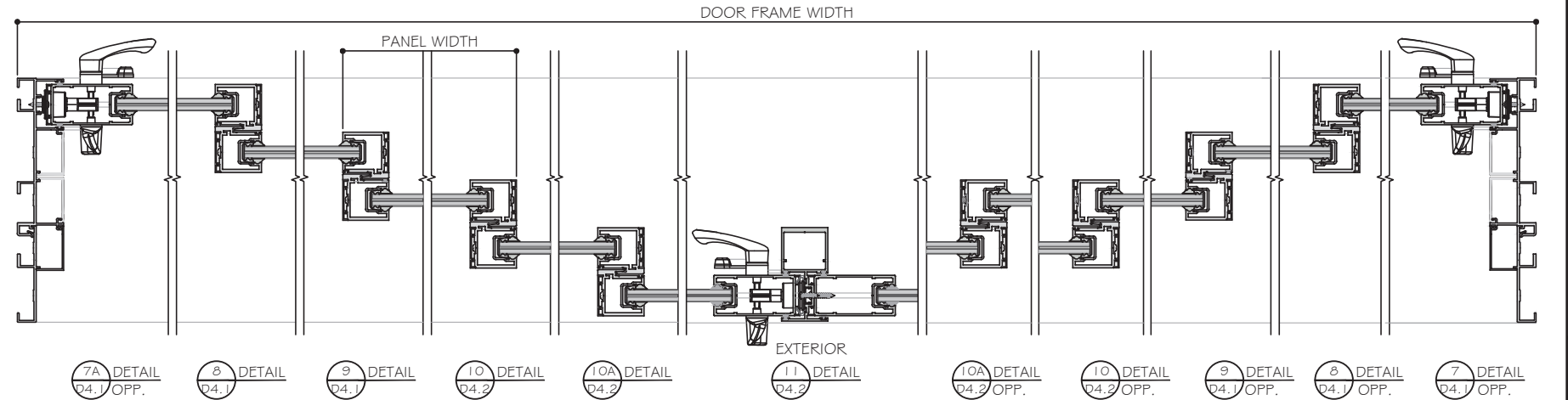
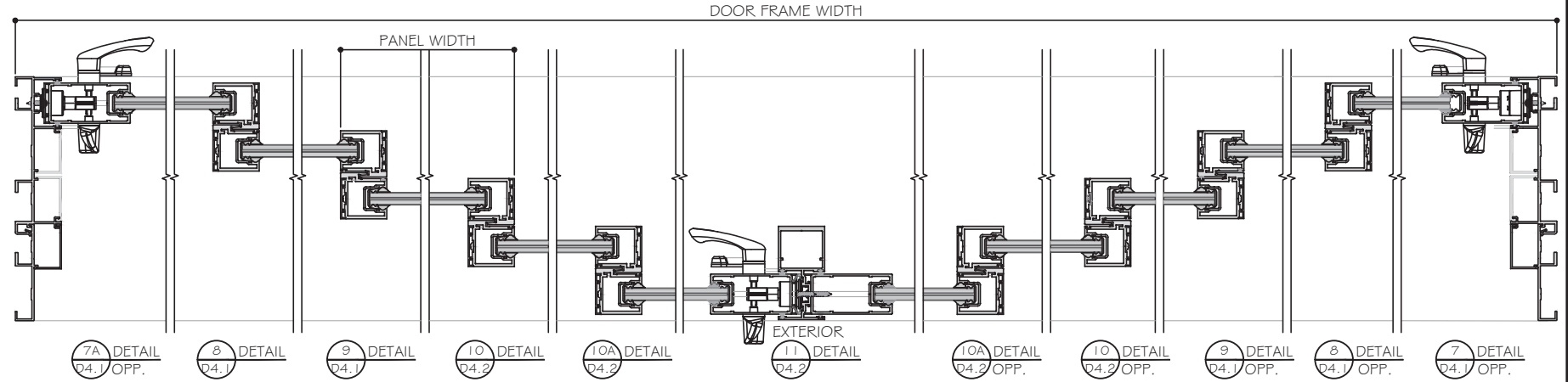
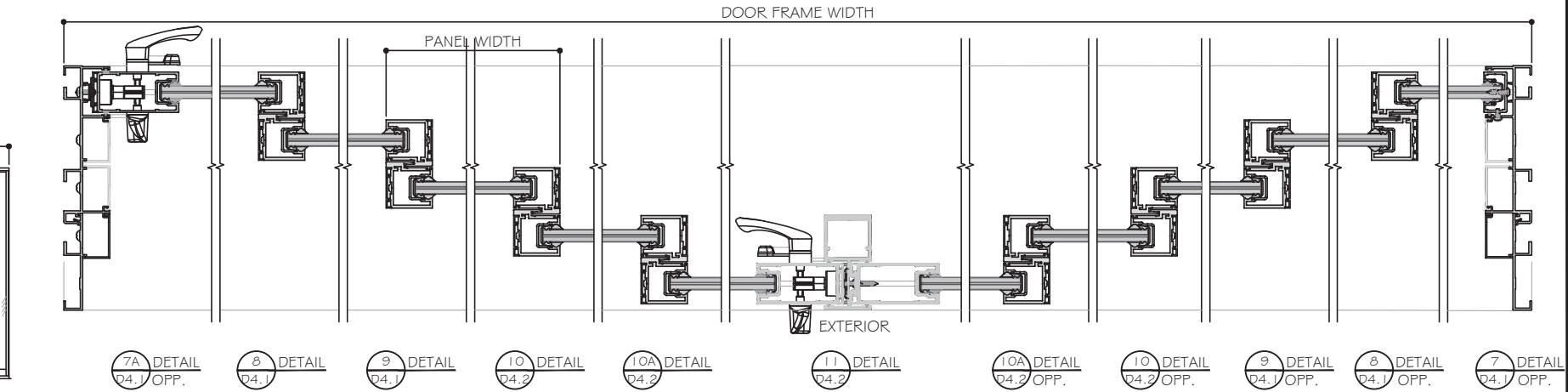
XXXXX (SHOWN)

FIVE (5) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL  
AND ARE TO BE REVIEWED BY AHJ.

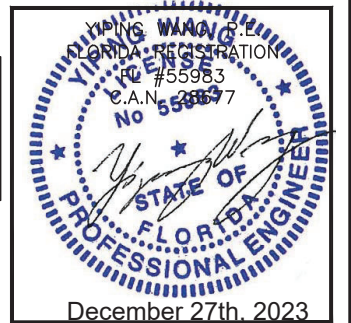
NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE CHART ON SHEET G.I FOR GLASS CAPACITIES AND GLASS OPTIONS.
3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K.I.
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A.I TO A.8.
5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J.I TO J.4.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.



LAMINATED GLASS OPTIONS SHOWN.  
SEE DETAILS FOR INSULATED  
LAMINATED OPTION.

NON-REINFORCED DETAILS SHOWN.  
FOR REINFORCED DETAILS, SEE SHEET D4  
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3  
TRACKS), D13 TO D16 FOR (2 TRACKS).

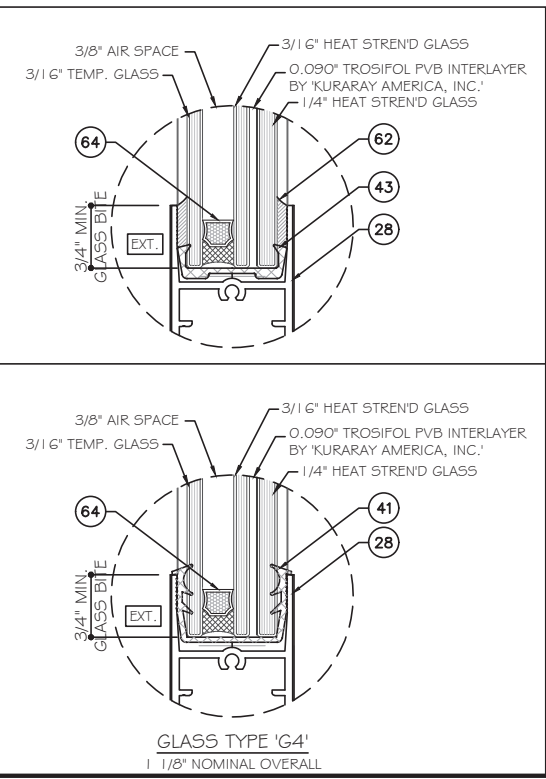
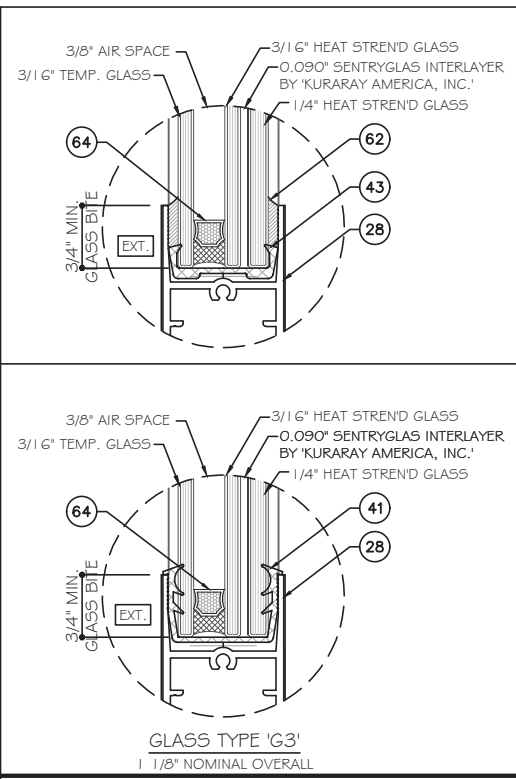
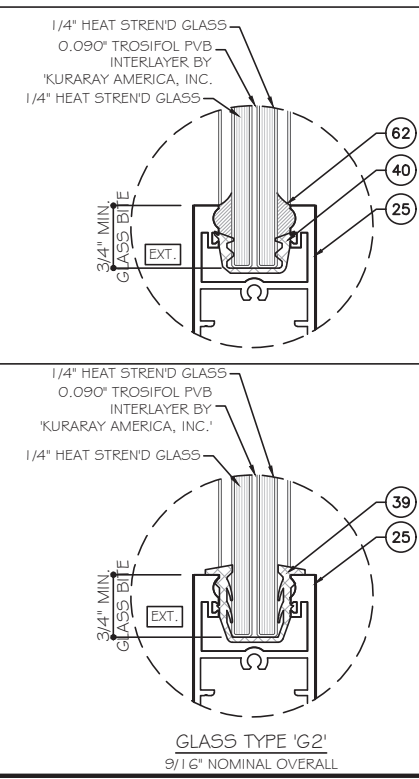
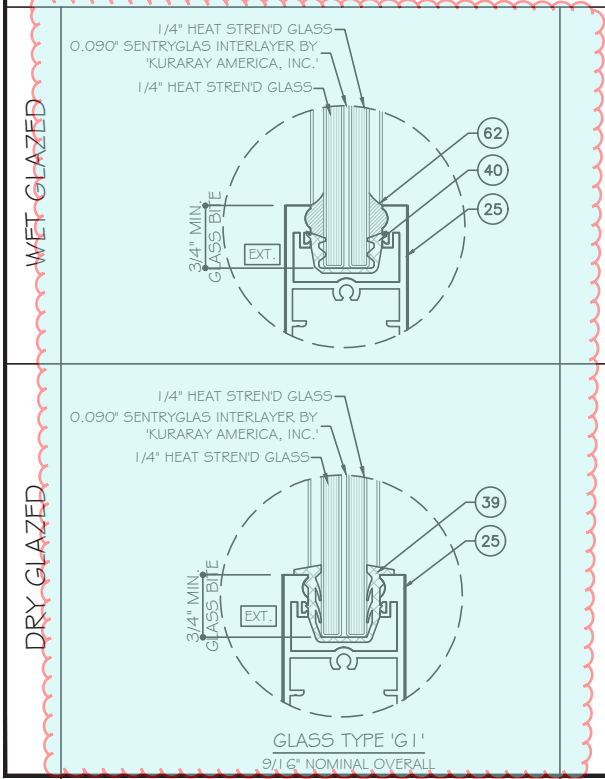
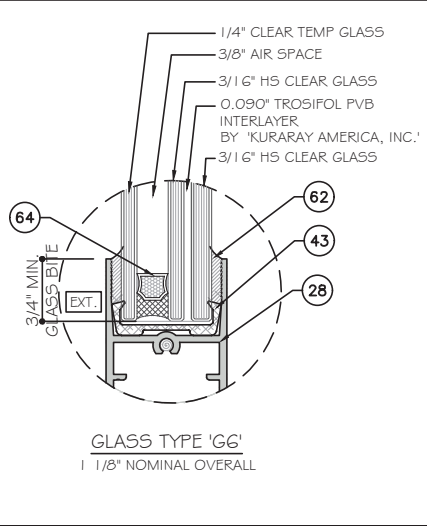
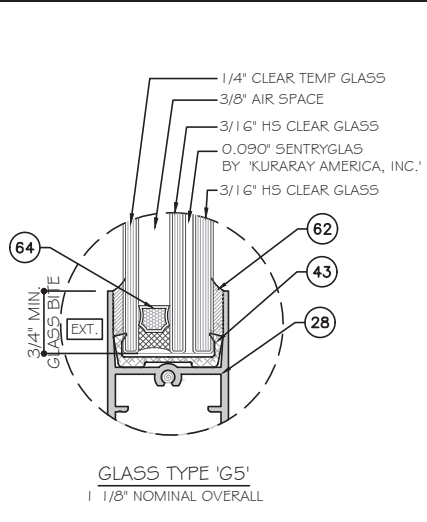
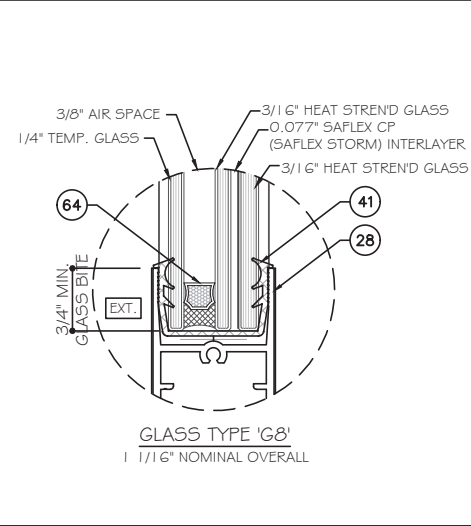
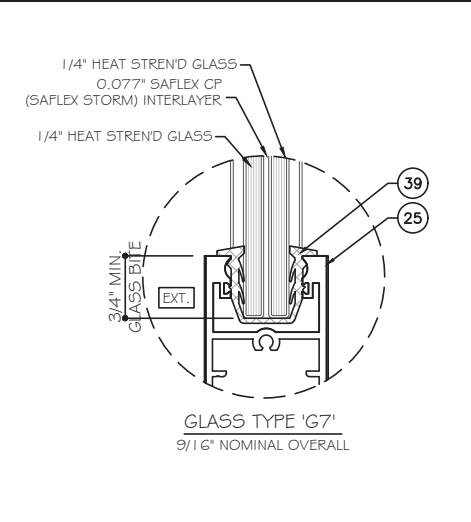


| Rev.                        | No. | Date       | Drawn By | Description |
|-----------------------------|-----|------------|----------|-------------|
| 1                           | 1   | 12.04.2023 | James    |             |
| Drawn Date 12.04.2023 Scale |     |            |          |             |
| DRAWING NO. AD16-29         |     |            |          |             |
| E12                         |     |            |          |             |
| Sheet No. 13 OF 59          |     |            |          |             |

| DESIGN LOAD CAPACITY - PSF (GLASS) |             |                               |         |         |                                   |         |                                   |         |         |
|------------------------------------|-------------|-------------------------------|---------|---------|-----------------------------------|---------|-----------------------------------|---------|---------|
| SGD PANEL SIZES                    |             | 9/16" NOMINAL LAMINATED GLASS |         |         | 1-1/8" NOMINAL INSUL. LAMI. GLASS |         | 1-1/8" NOMINAL INSUL. LAMI. GLASS |         |         |
| AVE. PANEL WIDTH                   | DOOR HEIGHT | G1                            | G2      | G7      | G3                                | G4      | G5                                | G6      | G8      |
| (IN)                               | (IN)        | +/- PSF                       | +/- PSF | +/- PSF | +/- PSF                           | +/- PSF | +/- PSF                           | +/- PSF | +/- PSF |
| 60                                 | 84          | 150.0                         | 150.0   | 90.0    | 150.0                             | 150.0   | 102.0                             | 102.0   | 90.0    |
| 66                                 |             | 150.0                         | 150.0   | 90.0    | 150.0                             | 150.0   | 102.0                             | 102.0   | 90.0    |
| 72                                 |             | 102.0                         | 100.0   | 90.0    | 102.0                             | 100.0   | 102.0                             | -       | 90.0    |
| 78                                 |             | 102.0                         | 100.0   | 90.0    | 102.0                             | 100.0   | 102.0                             | -       | 90.0    |
| 84                                 |             | 102.0                         | 100.0   | 90.0    | 102.0                             | 100.0   | 102.0                             | -       | 90.0    |
| 60                                 | 90          | 150.0                         | 150.0   | 90.0    | 150.0                             | 150.0   | 102.0                             | 102.0   | 90.0    |
| 66                                 |             | 102.0                         | 100.0   | 90.0    | 102.0                             | 100.0   | 102.0                             | -       | 90.0    |
| 72                                 |             | 102.0                         | 100.0   | 90.0    | 102.0                             | 100.0   | 102.0                             | -       | 90.0    |
| 78                                 |             | 102.0                         | 100.0   | 90.0    | 102.0                             | 100.0   | 102.0                             | -       | 90.0    |
| 84                                 |             | 102.0                         | -       | -       | 102.0                             | -       | -                                 | -       | -       |
| 60                                 | 96          | 150.0                         | 150.0   | 90.0    | 150.0                             | 150.0   | 102.0                             | 102.0   | 90.0    |
| 66                                 |             | 102.0                         | 100.0   | 90.0    | 102.0                             | 100.0   | 102.0                             | -       | 90.0    |
| 72                                 |             | 102.0                         | 100.0   | 90.0    | 102.0                             | 100.0   | 102.0                             | -       | 90.0    |
| 78                                 |             | 102.0                         | -       | -       | 102.0                             | -       | -                                 | -       | -       |
| 84                                 |             | 102.0                         | -       | -       | 102.0                             | -       | -                                 | -       | -       |
| 36                                 | 102         | 150.0                         | 150.0   | 90.0    | 150.0                             | 150.0   | 102                               | 102     | 90.0    |
| 42                                 |             | 150.0                         | 150.0   | 90.0    | 150.0                             | 147.0   | 102                               | 102     | 90.0    |
| 48                                 |             | 150.0                         | 150.0   | 90.0    | 150.0                             | 131.0   | 102                               | 102     | 90.0    |
| 54                                 |             | 150.0                         | 139.0   | 90.0    | 150.0                             | 120.0   | 102                               | 102     | 90.0    |
| 60                                 |             | 102.0                         | 100.0   | 90.0    | 102.0                             | 102.0   | 102                               | -       | 90.0    |
| 66                                 |             | 102.0                         | 100.0   | 90.0    | 102.0                             | 102.0   | 102                               | -       | 90.0    |
| 72                                 |             | 102.0                         | 100.0   | 90.0    | 102.0                             | 101.0   | -                                 | -       | 90.0    |
| 78                                 |             | 102.0                         | -       | -       | 102.0                             | -       | -                                 | -       | -       |
| 84                                 |             | 102.0                         | -       | -       | 102.0                             | -       | -                                 | -       | -       |
| 36                                 | 108         | 150.0                         | 150.0   | 90.0    | 150.0                             | 150.0   | 102                               | 102     | 90.0    |
| 42                                 |             | 150.0                         | 150.0   | 90.0    | 150.0                             | 136.0   | 102                               | 102     | 90.0    |
| 48                                 |             | 150.0                         | 147.0   | 90.0    | 150.0                             | 122.0   | 102                               | 102     | 90.0    |
| 54                                 |             | 102.0                         | 102.0   | 90.0    | 102.0                             | 102.0   | 102                               | -       | 90.0    |
| 60                                 |             | 102.0                         | 102.0   | 90.0    | 102.0                             | 102.0   | 102                               | -       | 90.0    |
| 66                                 |             | 102.0                         | 102.0   | 90.0    | 102.0                             | 101.0   | -                                 | -       | 90.0    |
| 72                                 |             | 102.0                         | -       | -       | 102.0                             | -       | -                                 | -       | -       |
| 78                                 |             | 102.0                         | -       | -       | -                                 | -       | -                                 | -       | -       |
| 84                                 |             | 102.0                         | -       | -       | -                                 | -       | -                                 | -       | -       |

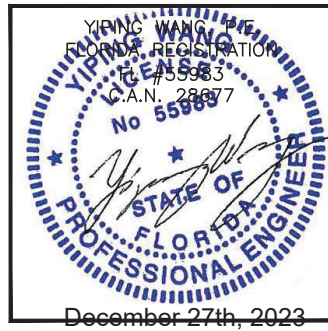
D.L.O. WIDTH = AVE. PANEL WIDTH - 4"  
D.L.O. HEIGHT = FRAME HEIGHT - 9.125"

| DESIGN LOAD CAPACITY - PSF (GLASS) |             |                               |         |         |                                   |         |                                   |         |         |
|------------------------------------|-------------|-------------------------------|---------|---------|-----------------------------------|---------|-----------------------------------|---------|---------|
| SGD PANEL SIZES                    |             | 9/16" NOMINAL LAMINATED GLASS |         |         | 1-1/8" NOMINAL INSUL. LAMI. GLASS |         | 1-1/8" NOMINAL INSUL. LAMI. GLASS |         |         |
| AVE. PANEL WIDTH                   | DOOR HEIGHT | G1                            | G2      | G7      | G3                                | G4      | G5                                | G6      | G8      |
| (IN)                               | (IN)        | +/- PSF                       | +/- PSF | +/- PSF | +/- PSF                           | +/- PSF | +/- PSF                           | +/- PSF | +/- PSF |
| 36                                 | 114         | 150.0                         | 150.0   | 90.0    | 150.0                             | 150.0   | 102                               | 102     | 90.0    |
| 42                                 |             | 150.0                         | 150.0   | 90.0    | 150.0                             | 132.0   | 102                               | 102     | 90.0    |
| 48                                 |             | 150.0                         | 150.0   | 90.0    | 139.0                             | 115.0   | 102                               | 102     | 90.0    |
| 54                                 |             | 102.0                         | 102.0   | 90.0    | 102.0                             | 102.0   | 102                               | -       | 90.0    |
| 60                                 |             | 102.0                         | 102.0   | 90.0    | 102.0                             | 98.8    | 102                               | -       | 90.0    |
| 66                                 | 120         | 102.0                         | -       | -       | 102.0                             | -       | -                                 | -       | -       |
| 72                                 |             | 102.0                         | -       | -       | 102.0                             | -       | -                                 | -       | -       |
| 36                                 |             | 150.0                         | 150.0   | 90.0    | 150.0                             | 150.0   | 102                               | 102     | 90.0    |
| 42                                 |             | 150.0                         | 150.0   | 90.0    | 150.0                             | 129.0   | 102                               | 102     | 90.0    |
| 48                                 |             | 150.0                         | 132.0   | 90.0    | 148.0                             | 110.0   | 102                               | 102     | 90.0    |
| 54                                 | 126         | 102.0                         | 102.0   | 90.0    | 102.0                             | 101.0   | 102                               | -       | 90.0    |
| 60                                 |             | 102.0                         | 102.0   | 90.0    | 102.0                             | 92.8    | -                                 | -       | 90.0    |
| 66                                 |             | 102.0                         | -       | -       | 102.0                             | -       | -                                 | -       | -       |
| 72                                 |             | 102.0                         | -       | -       | 102.0                             | -       | -                                 | -       | -       |
| 36                                 |             | 150.0                         | -       | -       | 150.0                             | -       | 102                               | -       | -       |
| 42                                 | 132         | 150.0                         | -       | -       | 150.0                             | -       | 102                               | -       | -       |
| 48                                 |             | 102.0                         | -       | -       | 102.0                             | -       | 102                               | -       | -       |
| 54                                 |             | 102.0                         | -       | -       | 102.0                             | -       | 102                               | -       | -       |
| 60                                 |             | 102.0                         | -       | -       | 102.0                             | -       | 102                               | -       | -       |
| 66                                 |             | 102.0                         | -       | -       | 102.0                             | -       | 102                               | -       | -       |
| 36                                 | 138         | 150.0                         | -       | -       | 150.0                             | -       | 102                               | -       | -       |
| 42                                 |             | 150.0                         | -       | -       | 150.0                             | -       | 102                               | -       | -       |
| 48                                 |             | 102.0                         | -       | -       | 102.0                             | -       | 102                               | -       | -       |
| 54                                 |             | 102.0                         | -       | -       | 102.0                             | -       | 102                               | -       | -       |
| 60                                 |             | 102.0                         | -       | -       | 102.0                             | -       | 102                               | -       | -       |
| 36                                 | 144         | 150.0                         | -       | -       | 150.0                             | -       | 102                               | -       | -       |
| 42                                 |             | 102.0                         | -       | -       | 102.0                             | -       | 102                               | -       | -       |
| 48                                 |             | 102.0                         | -       | -       | 102.0                             | -       | 102                               | -       | -       |
| 54                                 |             | 102.0                         | -       | -       | 102.0                             | -       | 102                               | -       | -       |
| 60                                 |             | 102.0                         | -       | -       | 102.0                             | -       | 102                               | -       | -       |



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

NOTE:  
PARTS 39 40 41 43 ARE ALSO USED  
AS SETTING BLOCK.



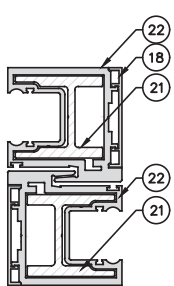
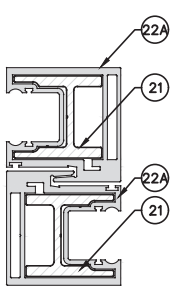
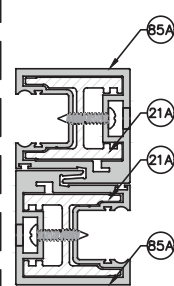
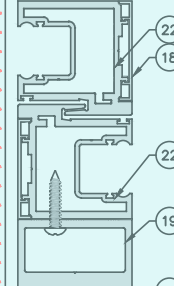
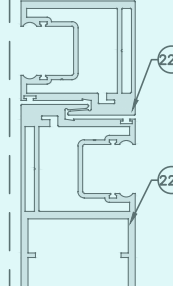
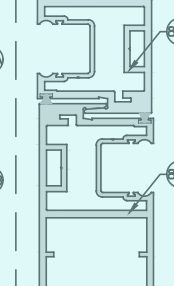
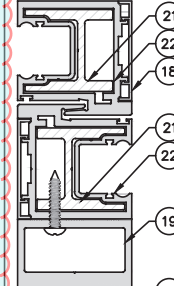
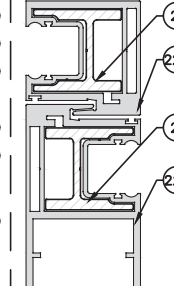
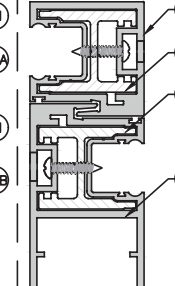
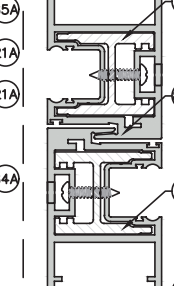
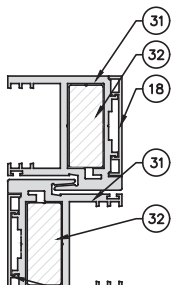
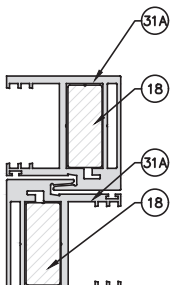
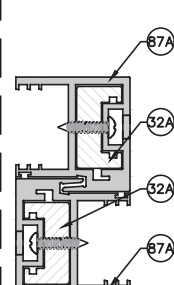
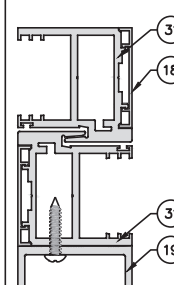
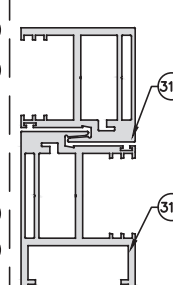
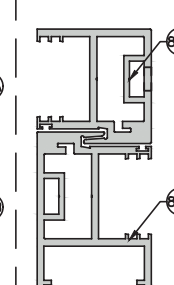
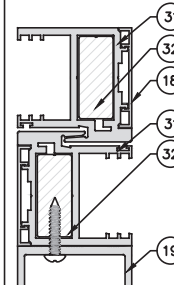
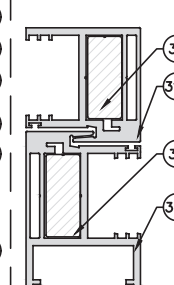
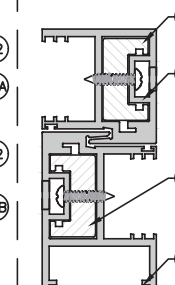
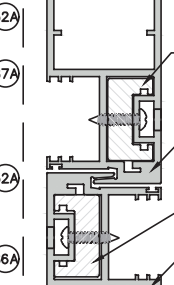
MCY ENGINEERING, INC.  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P. 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

ES WINDOWS, INC.  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

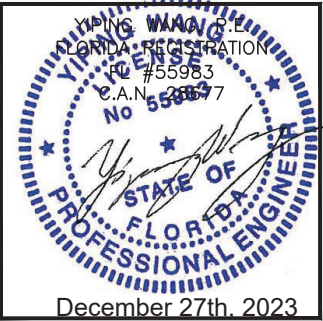
|             |          |
|-------------|----------|
| Drawn Date  | Scale    |
| 12.04.2023  |          |
| DRAWING NO. | AD16-29  |
| G1          |          |
| Sheet No.   | 14 OF 59 |

| DESIGN LOAD CAPACITY - PSF |             |                                         |                                            |                                           |
|----------------------------|-------------|-----------------------------------------|--------------------------------------------|-------------------------------------------|
| SGD PANEL SIZES            |             | LEVEL 1<br>(STD INTERLOCK<br>W/ REINF.) | LEVEL 2<br>(BELLY INTERLOCK<br>W/O REINF.) | LEVEL 3<br>(BELLY INTERLOCK<br>W/ REINF.) |
| AVE. PANEL<br>WIDTH        | DOOR HEIGHT | PSF                                     | PSF                                        | PSF                                       |
| (IN)                       | (IN)        | +/-                                     | +/-                                        | +/-                                       |
| 36                         | 102         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 150.0                              |
| 42                         | 102         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 150.0                              |
| 48                         | 102         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 150.0                              |
| 54                         | 102         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 150.0                              |
| 60                         | 102         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 102.0                              |
| 66                         | 102         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 102.0                              |
| 72                         | 102         | -                                       | 65.0 / 78.0                                | 90.0 / 102.0                              |
| 36                         | 108         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 150.0                              |
| 42                         | 108         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 150.0                              |
| 48                         | 108         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 150.0                              |
| 54                         | 108         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 102.0                              |
| 60                         | 108         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 102.0                              |
| 66                         | 108         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 102.0                              |
| 72                         | 108         | -                                       | 65.0 / 78.0                                | 90.0 / 102.0                              |
| 36                         | 114         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 150.0                              |
| 42                         | 114         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 150.0                              |
| 48                         | 114         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 150.0                              |
| 54                         | 114         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 102.0                              |
| 60                         | 114         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 102.0                              |
| 66                         | 114         | -                                       | 65.0 / 78.0                                | 90.0 / 102.0                              |
| 72                         | 114         | -                                       | 65.0 / 78.0                                | 90.0 / 102.0                              |
| 36                         | 120         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 150.0                              |
| 42                         | 120         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 150.0                              |
| 48                         | 120         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 150.0                              |
| 54                         | 120         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 102.0                              |
| 60                         | 120         | +85/-100                                | 65.0 / 78.0                                | 90.0 / 102.0                              |
| 66                         | 120         | -                                       | 65.0 / 78.0                                | 90.0 / 102.0                              |
| 72                         | 120         | -                                       | 65.0 / 78.0                                | 90.0 / 102.0                              |
| 36                         | 126         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |
| 42                         | 126         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |
| 48                         | 126         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |
| 54                         | 126         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |
| 60                         | 126         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |
| 66                         | 126         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |
| 36                         | 132         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |
| 42                         | 132         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |
| 48                         | 132         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |
| 54                         | 132         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |
| 60                         | 132         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |
| 66                         | 132         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |
| 36                         | 138         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |
| 42                         | 138         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |
| 48                         | 138         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |
| 54                         | 138         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |
| 60                         | 138         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |

| DESIGN LOAD CAPACITY - PSF |             |                                         |                                            |                                           |  |  |  |  |  |
|----------------------------|-------------|-----------------------------------------|--------------------------------------------|-------------------------------------------|--|--|--|--|--|
| SGD PANEL SIZES            |             | LEVEL 1<br>(STD INTERLOCK<br>W/ REINF.) | LEVEL 2<br>(BELLY INTERLOCK<br>W/O REINF.) | LEVEL 3<br>(BELLY INTERLOCK<br>W/ REINF.) |  |  |  |  |  |
| AVE. PANEL<br>WIDTH        | DOOR HEIGHT | PSF                                     | PSF                                        | PSF                                       |  |  |  |  |  |
| (IN)                       | (IN)        | +/-                                     | +/-                                        | +/-                                       |  |  |  |  |  |
| 36                         | 144         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |  |  |  |  |  |
| 42                         | 144         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |  |  |  |  |  |
| 48                         | 144         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |  |  |  |  |  |
| 54                         | 144         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |  |  |  |  |  |
| 60                         | 144         | -                                       | 65.0 / 78.0                                | 85.0 / 102.0                              |  |  |  |  |  |

| LEVEL 1 STD. INTERLOCKS W/ REINF.                                                    |                                                                                      |                                                                                      | LEVEL 2 BELLY INTERLOCKS W/O REINF.                                                  |                                                                                      |                                                                                      | LEVEL 3 BELLY INTERLOCKS W/ REINF.                                                   |                                                                                      |                                                                                      |                                                                                      |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| OPTION 1                                                                             | OPTION 2                                                                             | OPTION 3                                                                             | OPTION 1                                                                             | OPTION 2                                                                             | OPTION 3                                                                             | OPTION 1                                                                             | OPTION 2                                                                             | OPTION 3                                                                             | OPTION 4                                                                             |
|   |   |   |   |   |   |   |   |   |   |
|  |  |  |  |  |  |  |  |  |  |

AVE. PANEL WIDTH =  $\frac{\text{FRAME WIDTH}}{\text{\# OF PANELS}}$



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

ES WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL: (305) 624-7775

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

REVISION

Drawn By

Date

Rev. No.

Description

Drawn Date

12.04.2023

Scale

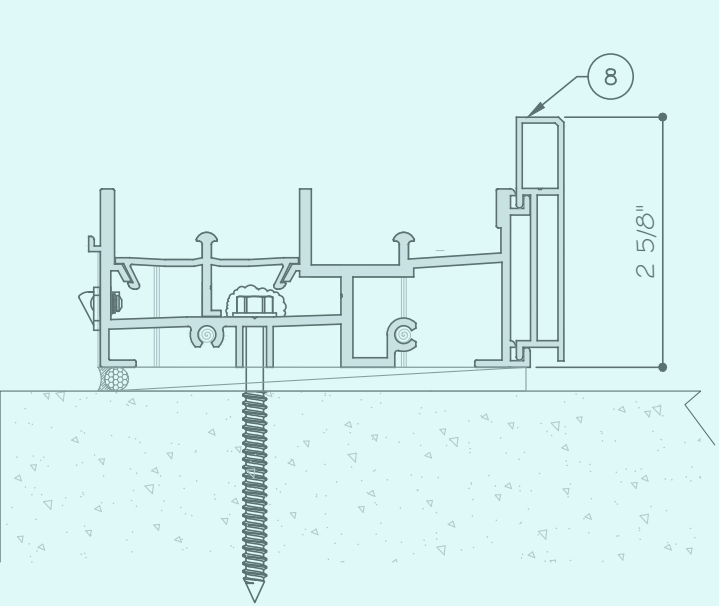
DRAWING NO.

AD16-29

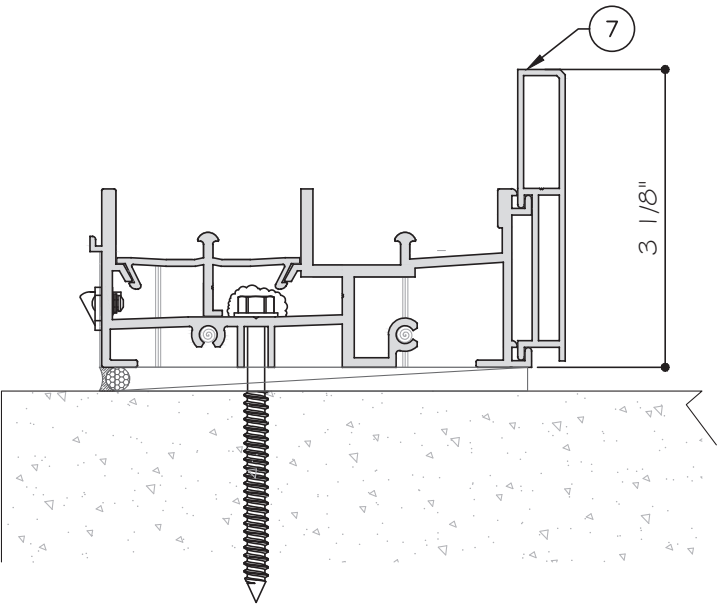
Sheet No.

15 OF 59

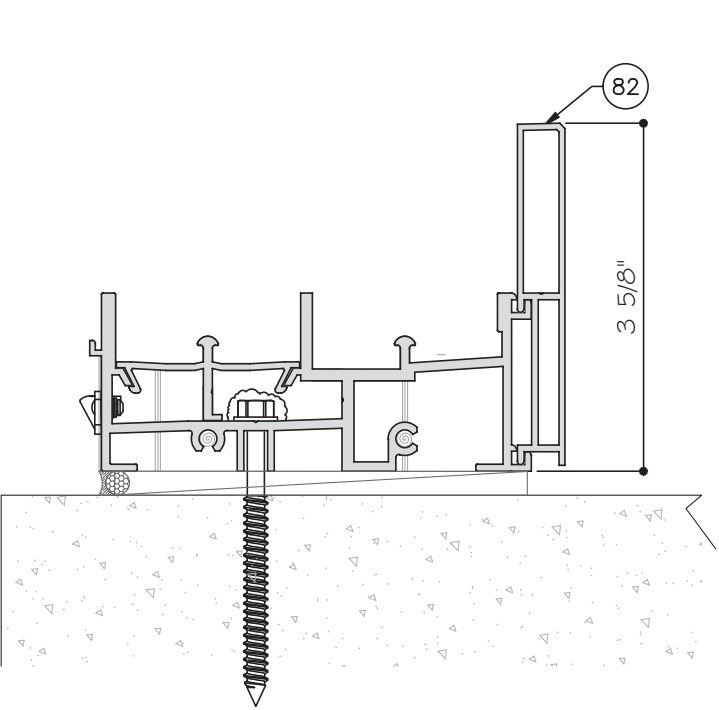
SILL RAISER OPTIONS (SHOWN ON 2 TRACK DOORS)  
POSITIVE LOAD LIMITED AS FOLLOW DUE TO WATER INFILTRATION



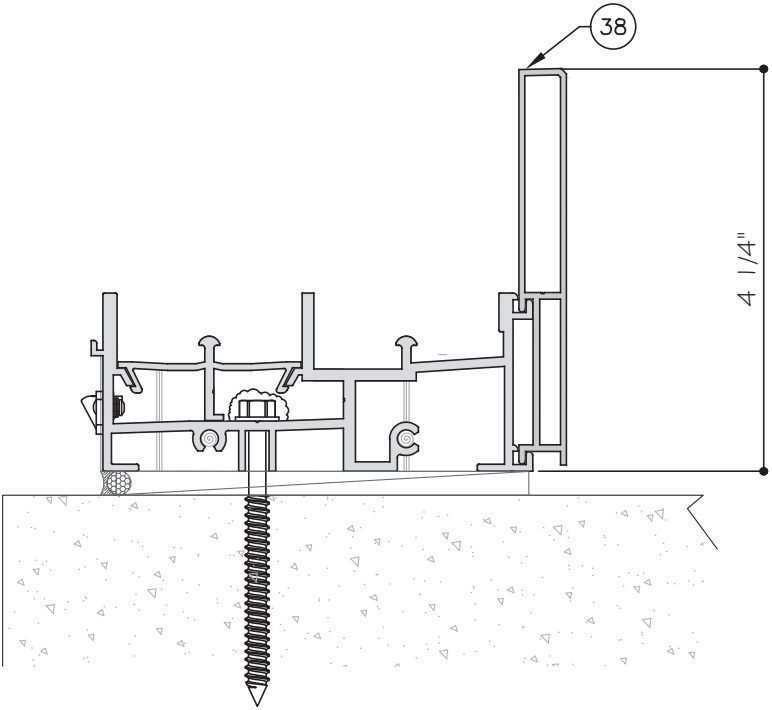
Pd MAX.= +53 PSF



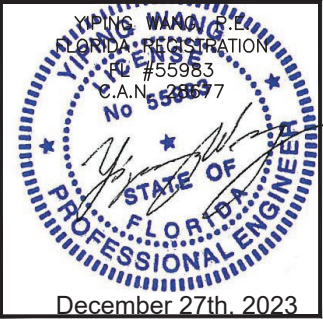
Pd MAX.= +67 PSF



Pd MAX.= +80 PSF



Pd MAX.= +90 PSF



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

M

C

Y

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL. (305) 624-7775

| Rev. No. | Date       | Drawn By | Description |
|----------|------------|----------|-------------|
| 1        | 12.04.2023 | James    |             |

Drawn Date

12.04.2023

Scale

DRAWING NO.

AD16-29

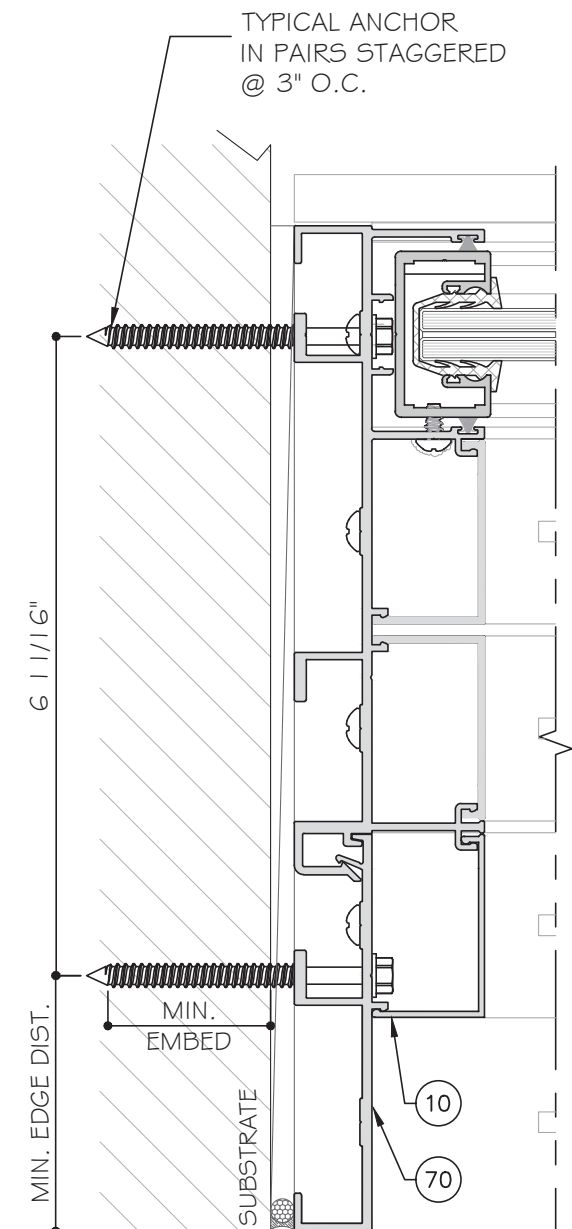
Sheet No.

16 OF 59

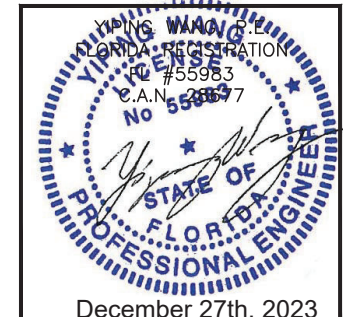
K2







5 TRACK SGD



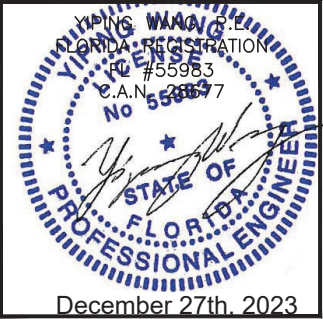


| HEAD ANCHOR CAPACITY - PSF |                  |                         |            |            |              |                 |        |        |
|----------------------------|------------------|-------------------------|------------|------------|--------------|-----------------|--------|--------|
| SGD PANEL SIZES            |                  | ANCHOR TYPE "A" OR "AA" |            |            |              | ANCHOR TYPE "B" |        |        |
| AVE. PANEL WIDTH (IN)      | DOOR HEIGHT (IN) | A4 AA4 +/-              | A6 AA6 +/- | A8 AA8 +/- | A10 AA10 +/- | B4 +/-          | B6 +/- | B8 +/- |
| 36                         | 84               | 132.4                   | 150.0      | 150.0      | 150.0        | 150.0           | 150.0  | 150.0  |
| 42                         |                  | 118.9                   | 150.0      | 150.0      | 150.0        | 150.0           | 150.0  | 150.0  |
| 48                         |                  | 109.2                   | 150.0      | 150.0      | 150.0        | 140.0           | 150.0  | 150.0  |
| 54                         |                  | 102.2                   | 150.0      | 150.0      | 150.0        | 131.0           | 150.0  | 150.0  |
| 60                         |                  | 97.1                    | 145.6      | 150.0      | 150.0        | 124.4           | 150.0  | 150.0  |
| 66                         |                  | 93.4                    | 140.1      | 150.0      | 150.0        | 119.8           | 150.0  | 150.0  |
| 72                         |                  | 91.0                    | 136.5      | 150.0      | 150.0        | 116.7           | 150.0  | 150.0  |
| 78                         |                  | 89.6                    | 134.4      | 150.0      | 150.0        | 114.9           | 150.0  | 150.0  |
| 84                         |                  | 89.1                    | 133.7      | 150.0      | 150.0        | 114.3           | 150.0  | 150.0  |
| 36                         | 90               | 121.3                   | 150.0      | 150.0      | 150.0        | 150.0           | 150.0  | 150.0  |
| 42                         |                  | 108.5                   | 150.0      | 150.0      | 150.0        | 139.1           | 150.0  | 150.0  |
| 48                         |                  | 99.3                    | 148.9      | 150.0      | 150.0        | 127.3           | 150.0  | 150.0  |
| 54                         |                  | 92.4                    | 138.7      | 150.0      | 150.0        | 118.5           | 150.0  | 150.0  |
| 60                         |                  | 87.4                    | 131.0      | 150.0      | 150.0        | 112.0           | 150.0  | 150.0  |
| 66                         |                  | 93.6                    | 125.4      | 150.0      | 150.0        | 107.2           | 150.0  | 150.0  |
| 72                         |                  | 80.9                    | 121.3      | 150.0      | 150.0        | 103.7           | 150.0  | 150.0  |
| 78                         |                  | 79.1                    | 118.6      | 150.0      | 150.0        | 101.4           | 150.0  | 150.0  |
| 84                         |                  | 78.0                    | 117.0      | 150.0      | 150.0        | 100.0           | 150.0  | 150.0  |
| 36                         | 96               | 112.0                   | 150.0      | 150.0      | 150.0        | 143.6           | 150.0  | 150.0  |
| 42                         |                  | 99.8                    | 149.8      | 150.0      | 150.0        | 128.0           | 150.0  | 150.0  |
| 48                         |                  | 91.0                    | 136.5      | 150.0      | 150.0        | 116.7           | 150.0  | 150.0  |
| 54                         |                  | 84.4                    | 126.6      | 150.0      | 150.0        | 108.2           | 150.0  | 150.0  |
| 60                         |                  | 79.4                    | 119.1      | 150.0      | 150.0        | 101.8           | 150.0  | 150.0  |
| 66                         |                  | 75.6                    | 113.5      | 150.0      | 150.0        | 97.0            | 145.5  | 150.0  |
| 72                         |                  | 82.8                    | 109.2      | 145.6      | 150.0        | 93.3            | 140.0  | 150.0  |
| 78                         |                  | 70.7                    | 106.1      | 141.5      | 150.0        | 90.7            | 136.0  | 150.0  |
| 84                         |                  | 69.3                    | 104.0      | 138.7      | 150.0        | 88.9            | 133.3  | 150.0  |
| 36                         | 102              | 104.0                   | 150.0      | 150.0      | 150.0        | 133.3           | 150.0  | 150.0  |
| 42                         |                  | 92.4                    | 138.7      | 150.0      | 150.0        | 118.5           | 150.0  | 150.0  |
| 48                         |                  | 84.0                    | 126.0      | 150.0      | 150.0        | 107.7           | 150.0  | 150.0  |
| 54                         |                  | 77.7                    | 116.5      | 150.0      | 150.0        | 99.6            | 149.3  | 150.0  |
| 60                         |                  | 72.8                    | 109.2      | 145.6      | 150.0        | 93.3            | 140.0  | 150.0  |
| 66                         |                  | 69.1                    | 103.6      | 138.1      | 150.0        | 88.5            | 132.8  | 150.0  |
| 72                         |                  | 66.2                    | 99.3       | 132.4      | 150.0        | 84.8            | 127.3  | 150.0  |
| 78                         |                  | 64.0                    | 96.0       | 128.0      | 150.0        | 82.1            | 123.1  | 150.0  |
| 84                         |                  | 62.4                    | 93.6       | 124.8      | 150.0        | 80.0            | 120.0  | 150.0  |
| 36                         | 108              | 97.1                    | 145.6      | 150.0      | 150.0        | 124.4           | 150.0  | 150.0  |
| 42                         |                  | 86.1                    | 129.1      | 150.0      | 150.0        | 110.3           | 150.0  | 150.0  |
| 48                         |                  | 78.0                    | 117.0      | 150.0      | 150.0        | 100.0           | 150.0  | 150.0  |
| 54                         |                  | 71.9                    | 107.9      | 143.8      | 150.0        | 92.2            | 138.3  | 150.0  |
| 60                         |                  | 67.2                    | 100.8      | 134.4      | 150.0        | 86.2            | 129.2  | 150.0  |
| 66                         |                  | 63.5                    | 95.3       | 127.1      | 150.0        | 81.5            | 122.2  | 150.0  |
| 72                         |                  | 60.7                    | 91.0       | 121.3      | 150.0        | 77.8            | 116.7  | 150.0  |
| 78                         |                  | 58.4                    | 87.7       | 116.9      | 146.1        | 74.9            | 112.4  | 149.8  |

| HEAD ANCHOR CAPACITY - PSF |                  |                         |            |            |              |                 |        |        |
|----------------------------|------------------|-------------------------|------------|------------|--------------|-----------------|--------|--------|
| SGD PANEL SIZES            |                  | ANCHOR TYPE "A" OR "AA" |            |            |              | ANCHOR TYPE "B" |        |        |
| AVE. PANEL WIDTH (IN)      | DOOR HEIGHT (IN) | A4 AA4 +/-              | A6 AA6 +/- | A8 AA8 +/- | A10 AA10 +/- | B4 +/-          | B6 +/- | B8 +/- |
| 36                         | 114              | 91.0                    | 136.5      | 150.0      | 150.0        | 116.7           | 150.0  | 150.0  |
| 42                         |                  | 80.5                    | 120.8      | 150.0      | 150.0        | 103.2           | 150.0  | 150.0  |
| 48                         |                  | 72.8                    | 109.2      | 145.6      | 150.0        | 93.3            | 140.0  | 150.0  |
| 54                         |                  | 66.9                    | 100.4      | 133.9      | 150.0        | 85.8            | 128.7  | 150.0  |
| 60                         |                  | 62.4                    | 93.6       | 124.8      | 150.0        | 80.0            | 120.0  | 150.0  |
| 66                         |                  | 58.8                    | 88.2       | 117.7      | 147.1        | 75.4            | 113.1  | 150.0  |
| 72                         |                  | 56.0                    | 84.0       | 112.0      | 112.0        | 71.8            | 107.7  | 143.6  |
| 36                         | 120              | 85.6                    | 128.5      | 150.0      | 150.0        | 109.8           | 150.0  | 150.0  |
| 42                         |                  | 75.6                    | 113.5      | 150.0      | 150.0        | 97.0            | 145.5  | 150.0  |
| 48                         |                  | 68.3                    | 102.4      | 136.5      | 150.0        | 87.5            | 131.3  | 150.0  |
| 54                         |                  | 62.6                    | 93.9       | 125.2      | 150.0        | 80.3            | 120.4  | 150.0  |
| 60                         |                  | 58.2                    | 87.4       | 116.5      | 145.6        | 74.7            | 112.0  | 149.3  |
| 66                         |                  | 54.8                    | 82.2       | 109.5      | 136.9        | 70.2            | 105.3  | 140.4  |
| 72                         |                  | 52.0                    | 78.0       | 104.0      | 130.0        | 66.7            | 100.0  | 133.3  |
| 36                         | 126              | 80.9                    | 121.3      | 150.0      | 150.0        | 103.7           | 150.0  | 150.0  |
| 42                         |                  | 71.3                    | 107.0      | 142.6      | 150.0        | 91.4            | 137.1  | 150.0  |
| 48                         |                  | 64.2                    | 96.4       | 128.5      | 150.0        | 82.4            | 123.5  | 150.0  |
| 54                         |                  | 58.8                    | 88.2       | 117.7      | 147.1        | 75.4            | 113.1  | 150.0  |
| 60                         |                  | 54.6                    | 81.9       | 109.2      | 136.5        | 70.0            | 105.0  | 140.0  |
| 66                         |                  | 51.2                    | 76.9       | 102.5      | 128.1        | 65.7            | 98.5   | 131.4  |
| 36                         | 132              | 76.6                    | 114.9      | 150.0      | 150.0        | 98.2            | 147.4  | 150.0  |
| 42                         |                  | 67.5                    | 101.2      | 134.9      | 150.0        | 86.5            | 129.7  | 150.0  |
| 48                         |                  | 60.7                    | 91.0       | 121.3      | 150.0        | 77.8            | 116.7  | 150.0  |
| 54                         |                  | 55.5                    | 83.2       | 110.9      | 138.7        | 71.1            | 106.7  | 142.2  |
| 60                         |                  | 51.4                    | 77.1       | 102.8      | 128.5        | 65.9            | 98.8   | 131.8  |
| 66                         |                  | 48.1                    | 72.2       | 96.3       | 120.3        | 61.7            | 92.6   | 123.4  |
| 36                         | 138              | 72.8                    | 109.2      | 145.6      | 150.0        | 93.3            | 140.0  | 150.0  |
| 42                         |                  | 64.0                    | 96.0       | 128.0      | 150.0        | 82.1            | 123.1  | 150.0  |
| 48                         |                  | 57.5                    | 86.2       | 114.9      | 143.7        | 73.7            | 110.5  | 147.4  |
| 54                         |                  | 52.5                    | 78.7       | 104.9      | 131.2        | 67.3            | 100.9  | 134.5  |
| 60                         |                  | 48.5                    | 72.8       | 97.1       | 121.3        | 62.2            | 93.3   | 124.4  |
| 36                         | 144              | 69.3                    | 104.0      | 138.7      | 150.0        | 88.9            | 133.3  | 150.0  |
| 42                         |                  | 60.9                    | 91.3       | 121.8      | 150.0        | 78.0            | 117.1  | 150.0  |
| 48                         |                  | 54.6                    | 81.9       | 109.2      | 136.5        | 70.0            | 105.0  | 140.0  |
| 54                         |                  | 49.8                    | 74.7       | 99.6       | 124.4        | 63.8            | 95.7   | 127.6  |
| 60                         |                  | 46.0                    | 69.0       | 92.0       | 114.9        | 58.9            | 88.4   | 117.9  |

A4 OR AA4 - A CLUSTER OF (4) TYPE "A" OR "AA" ANCHORS AT HEAD  
A6 OR AA6- A CLUSTER OF (6) TYPE "A" OR "AA" ANCHORS AT HEAD  
A8 OR AA8- A CLUSTER OF (8) TYPE "A" OR "AA" ANCHORS AT HEAD  
A10 OR AA10 - A CLUSTER OF (10) TYPE "A" OR "AA" ANCHORS AT HEAD  
B4 - A CLUSTER OF (4) TYPE "B" ANCHORS AT HEAD  
B6 - A CLUSTER OF (6) TYPE "B" ANCHORS AT HEAD  
B8 - A CLUSTER OF (8) TYPE "B" ANCHORS AT HEAD

FOR ANCHOR TYPES & LAYOUT, SEE SHEET A6 & A7



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL. (305) 624-7775

Drawn Date

12.04.2023

Scale

DRAWING NO.

AD16-29

A1

Sheet No.

21 OF 59

Revision

12.04.2023

James

Drawn By

Date

Rev. No.

Description





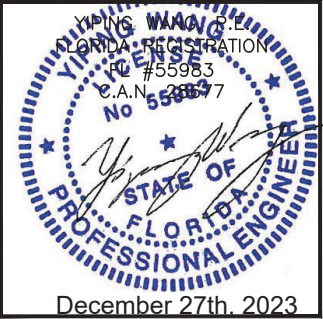


| SILL ANCHOR CAPACITY - PSF |                  |                       |             |             |
|----------------------------|------------------|-----------------------|-------------|-------------|
| SGD PANEL SIZES            |                  | ANCHOR TYPE "A" / "B" |             |             |
| AVE. PANEL WIDTH (IN)      | DOOR HEIGHT (IN) | A4 / B4 +/-           | A6 / B6 +/- | A8 / B8 +/- |
| 36                         | 84               | 150.0                 | 150.0       | 150.0       |
| 42                         |                  | 150.0                 | 150.0       | 150.0       |
| 48                         |                  | 146.8                 | 150.0       | 150.0       |
| 54                         |                  | 137.4                 | 150.0       | 150.0       |
| 60                         |                  | 130.5                 | 150.0       | 150.0       |
| 66                         |                  | 125.6                 | 150.0       | 150.0       |
| 72                         |                  | 122.3                 | 150.0       | 150.0       |
| 78                         |                  | 120.5                 | 150.0       | 150.0       |
| 84                         |                  | 119.8                 | 150.0       | 150.0       |
| 36                         | 90               | 150.0                 | 150.0       | 150.0       |
| 42                         |                  | 145.9                 | 150.0       | 150.0       |
| 48                         |                  | 133.5                 | 150.0       | 150.0       |
| 54                         |                  | 124.3                 | 150.0       | 150.0       |
| 60                         |                  | 117.4                 | 150.0       | 150.0       |
| 66                         |                  | 112.4                 | 150.0       | 150.0       |
| 72                         |                  | 108.7                 | 150.0       | 150.0       |
| 78                         |                  | 106.3                 | 150.0       | 150.0       |
| 84                         |                  | 104.9                 | 150.0       | 150.0       |
| 36                         | 96               | 150.0                 | 150.0       | 150.0       |
| 42                         |                  | 134.2                 | 150.0       | 150.0       |
| 48                         |                  | 122.3                 | 150.0       | 150.0       |
| 54                         |                  | 113.5                 | 150.0       | 150.0       |
| 60                         |                  | 106.8                 | 150.0       | 150.0       |
| 66                         |                  | 101.7                 | 150.0       | 150.0       |
| 72                         |                  | 97.9                  | 146.8       | 150.0       |
| 78                         |                  | 95.1                  | 142.6       | 150.0       |
| 84                         |                  | 93.2                  | 139.8       | 150.0       |
| 36                         | 102              | 139.8                 | 150.0       | 150.0       |
| 42                         |                  | 124.3                 | 150.0       | 150.0       |
| 48                         |                  | 112.9                 | 150.0       | 150.0       |
| 54                         |                  | 104.4                 | 150.0       | 150.0       |
| 60                         |                  | 97.9                  | 146.8       | 150.0       |
| 66                         |                  | 92.8                  | 139.3       | 150.0       |
| 72                         |                  | 89.0                  | 133.5       | 150.0       |
| 78                         |                  | 86.0                  | 129.1       | 150.0       |
| 84                         |                  | 83.9                  | 125.8       | 150.0       |
| 36                         | 108              | 130.5                 | 150.0       | 150.0       |
| 42                         |                  | 115.7                 | 150.0       | 150.0       |
| 48                         |                  | 104.9                 | 150.0       | 150.0       |
| 54                         |                  | 96.7                  | 145.0       | 150.0       |
| 60                         |                  | 90.3                  | 135.5       | 150.0       |
| 66                         |                  | 85.4                  | 128.1       | 150.0       |
| 72                         |                  | 81.6                  | 122.3       | 150.0       |
| 78                         |                  | 78.6                  | 117.8       | 150.0       |

| SILL ANCHOR CAPACITY - PSF |                  |                       |             |             |
|----------------------------|------------------|-----------------------|-------------|-------------|
| SGD PANEL SIZES            |                  | ANCHOR TYPE "A" / "B" |             |             |
| AVE. PANEL WIDTH (IN)      | DOOR HEIGHT (IN) | A4 / B4 +/-           | A6 / B6 +/- | A8 / B8 +/- |
| 36                         | 114              | 122.3                 | 150.0       | 150.0       |
| 42                         |                  | 108.2                 | 150.0       | 150.0       |
| 48                         |                  | 97.9                  | 146.8       | 150.0       |
| 54                         |                  | 90.0                  | 135.0       | 150.0       |
| 60                         |                  | 83.9                  | 125.8       | 150.0       |
| 66                         |                  | 79.1                  | 118.6       | 150.0       |
| 72                         |                  | 75.3                  | 112.9       | 150.0       |
| 36                         | 120              | 115.1                 | 150.0       | 150.0       |
| 42                         |                  | 101.7                 | 150.0       | 150.0       |
| 48                         |                  | 91.8                  | 137.6       | 150.0       |
| 54                         |                  | 84.2                  | 126.3       | 150.0       |
| 60                         |                  | 78.3                  | 117.4       | 150.0       |
| 66                         |                  | 73.6                  | 110.4       | 147.3       |
| 72                         |                  | 69.9                  | 104.9       | 139.8       |
| 36                         | 126              | 108.7                 | 150.0       | 150.0       |
| 42                         |                  | 95.9                  | 143.8       | 150.0       |
| 48                         |                  | 86.4                  | 129.5       | 150.0       |
| 54                         |                  | 79.1                  | 118.6       | 150.0       |
| 60                         |                  | 73.4                  | 110.1       | 146.8       |
| 66                         |                  | 68.9                  | 103.3       | 137.8       |
| 36                         | 132              | 65.2                  | 97.9        | 130.5       |
| 42                         |                  | 103.0                 | 150.0       | 150.0       |
| 48                         |                  | 90.7                  | 136.0       | 150.0       |
| 54                         |                  | 81.6                  | 122.3       | 150.0       |
| 60                         |                  | 74.6                  | 111.8       | 149.1       |
| 66                         |                  | 69.1                  | 103.6       | 138.2       |
| 36                         | 138              | 64.7                  | 97.1        | 129.4       |
| 42                         |                  | 97.9                  | 146.8       | 150.0       |
| 48                         |                  | 86.0                  | 129.1       | 150.0       |
| 54                         |                  | 77.3                  | 115.9       | 150.0       |
| 60                         |                  | 70.5                  | 105.8       | 141.1       |
| 66                         |                  | 65.2                  | 97.9        | 130.5       |
| 36                         | 144              | 93.2                  | 139.8       | 150.0       |
| 42                         |                  | 81.8                  | 122.8       | 150.0       |
| 48                         |                  | 73.4                  | 110.1       | 146.8       |
| 54                         |                  | 66.9                  | 100.4       | 133.8       |
| 60                         |                  | 61.8                  | 92.7        | 123.6       |

A4 - A CLUSTER OF (4) TYPE "A" ANCHORS AT SILL  
A6 - A CLUSTER OF (6) TYPE "A" ANCHORS AT SILL  
A8 - A CLUSTER OF (8) TYPE "A" ANCHORS AT SILL  
B4 - A CLUSTER OF (4) TYPE "B" ANCHORS AT SILL  
B6 - A CLUSTER OF (6) TYPE "B" ANCHORS AT SILL  
B8 - A CLUSTER OF (8) TYPE "B" ANCHORS AT SILL

FOR ANCHOR TYPES & LAYOUT, SEE SHEET A8



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL. (305) 624-7775

Drawn Date

12.04.2023

Scale

DRAWING NO.

AD16-29

Sheet No.

25 OF 59

Rev. No.

No.

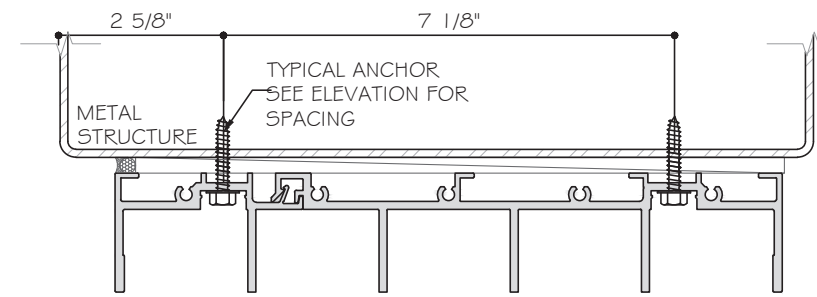
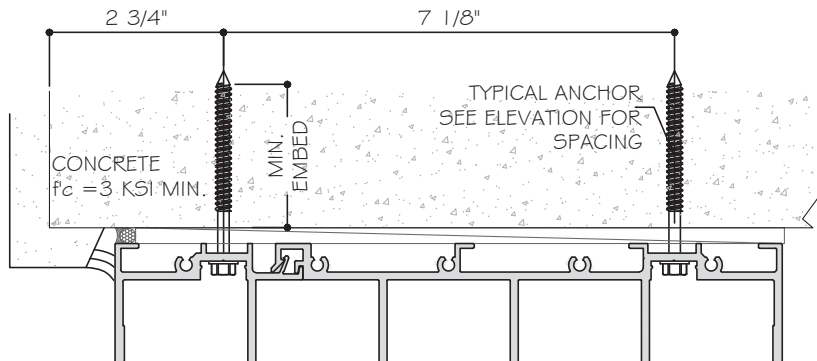
Date

12.04.2023

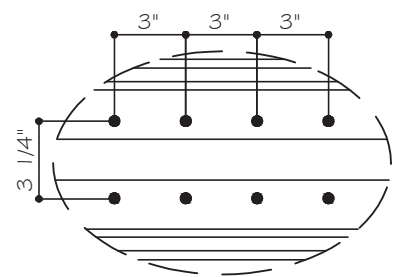
Drawn By

James

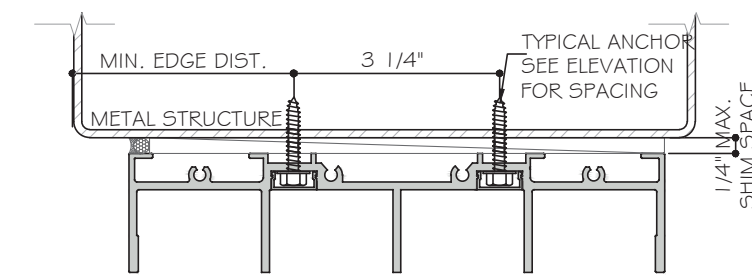
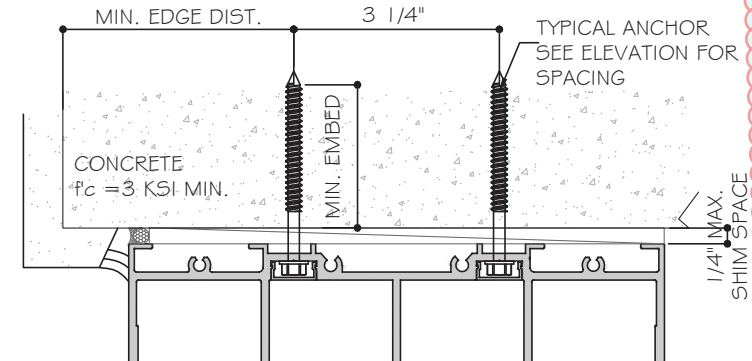
Description



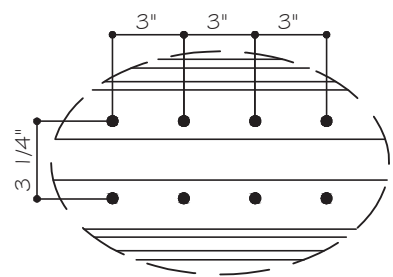
5 TRACK SGD



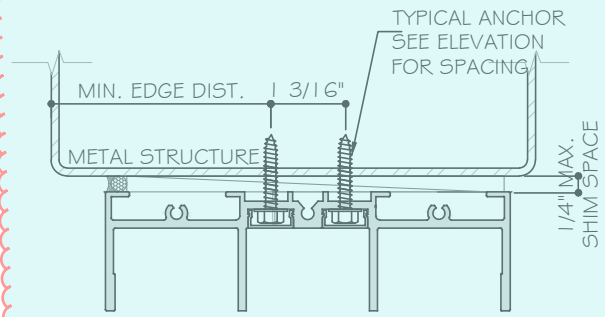
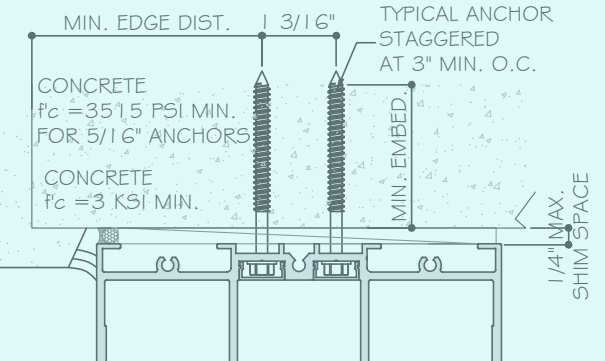
5 TRACK SGD



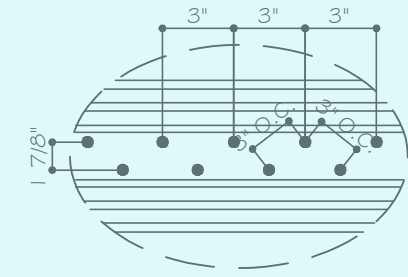
4 TRACK SGD



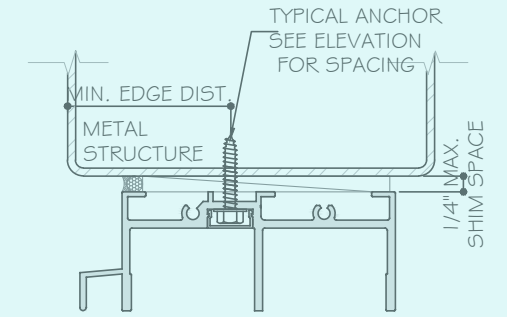
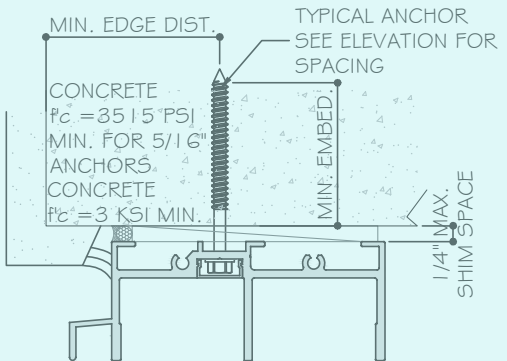
4 TRACK SGD



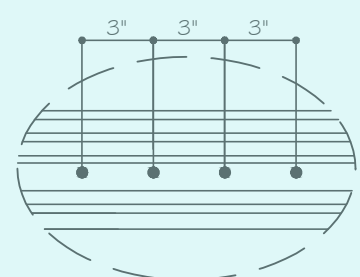
3 TRACK SGD



3 TRACK SGD



2 TRACK SGD



2 TRACK SGD

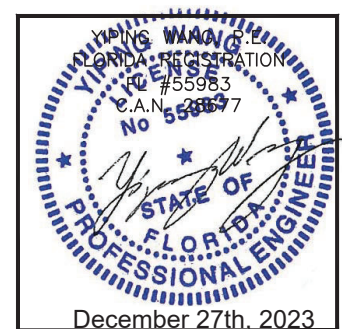
HEAD ANCHOR TYPES:

- TYPE "A": 1/4" DIA. KWIKCON ( $F_u=138$  KSI,  $F_y=137$  KSI)  
 1 3/4" MIN. EMBED INTO  $f_c=3$  KSI MIN. CONCRETE  
 2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.
- TYPE "B": 1/4" DIA. ULTRA CON+ BY DEWALT ( $F_u=164$  KSI,  $F_y=148$  KSI)  
 1 3/4" MIN. EMBED INTO  $f_c=3$  KSI MIN. CONCRETE  
 2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.
- TYPE "C": 5/16" DIA. ULTRA CON BY DEWALT ( $F_u=177$  KSI,  $F_y=155$  KSI)  
 1 3/4" MIN. EMBED INTO  $f_c=3515$  PSI MIN. CONCRETE  
 2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.
- TYPE "D": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 ( $F_u=120$  KSI,  $F_y=92$  KSI)  
 INTO METAL STRUCTURE  
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
 STEEL: 1/8" THK. MIN. ( $F_y=36$ KSI, MIN.)
- TYPE "E": 5/16" TEKS/DRIL-FLEX SCREW ( $F_u=120$  KSI,  $F_y=92$  KSI)  
 INTO METAL STRUCTURE  
 (3) THREAD MIN. PENETRATION BEYOND METAL SUBSTRATE  
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
 STEEL: 1/8" THK. MIN. ( $F_y=36$ KSI, MIN.)
- STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

- A4 - A CLUSTER OF (4) TYPE "A" ANCHORS AT HEAD  
 A6 - A CLUSTER OF (6) TYPE "A" ANCHORS AT HEAD  
 A8 - A CLUSTER OF (8) TYPE "A" ANCHORS AT HEAD  
 A10 - A CLUSTER OF (10) TYPE "A" ANCHORS AT HEAD  
 B4 - A CLUSTER OF (4) TYPE "B" ANCHORS AT HEAD  
 B6 - A CLUSTER OF (6) TYPE "B" ANCHORS AT HEAD  
 B8 - A CLUSTER OF (8) TYPE "B" ANCHORS AT HEAD

NOTE:  
 WOOD BUCKS/ METAL STRUCTURES BY OTHERS MUST BE PROPERLY  
 SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND  
 TRANSFER THEM TO THE BUILDING STRUCTURES.

- C4 - A CLUSTER OF (4) TYPE "C" ANCHORS AT HEAD  
 C6 - A CLUSTER OF (6) TYPE "C" ANCHORS AT HEAD  
 D4 - A CLUSTER OF (4) TYPE "D" ANCHORS AT HEAD  
 D6 - A CLUSTER OF (6) TYPE "D" ANCHORS AT HEAD  
 D8 - A CLUSTER OF (8) TYPE "D" ANCHORS AT HEAD  
 E4 - A CLUSTER OF (4) TYPE "E" ANCHORS AT HEAD  
 E6 - A CLUSTER OF (6) TYPE "E" ANCHORS AT HEAD



**MCY ENGINEERING, INC.**  
 GLAZING CONSULTANTS  
 12781 MIRAMAR PARKWAY #301  
 MIRAMAR, FL 33027  
 P: 305.271.0117  
 www.MCYEngineering.com mcy@mcyengineering.com

**ES WINDOWS, INC.**  
 10653 NE Quaybridge Ct.  
 Miami, FL 33138  
 TEL. (305) 624-7775

---

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

| Rev. | Date | Drawn By | Description |
|------|------|----------|-------------|
|      |      |          |             |
|      |      |          |             |
|      |      |          |             |
|      |      |          |             |

Drawn Date: 12.04.2023

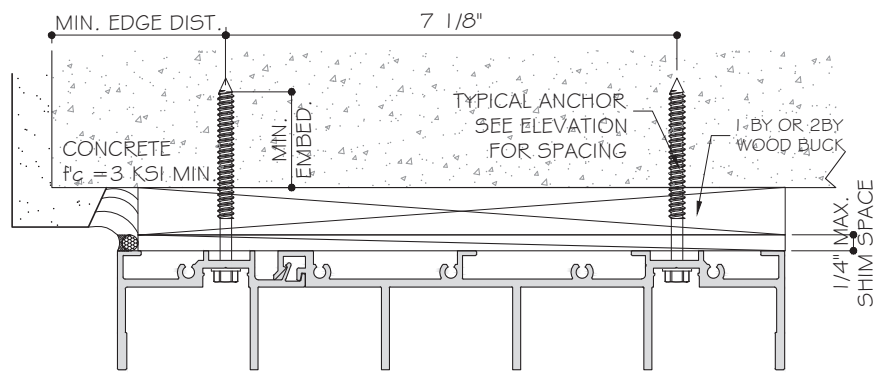
Scale:

DRAWING NO. AD16-29

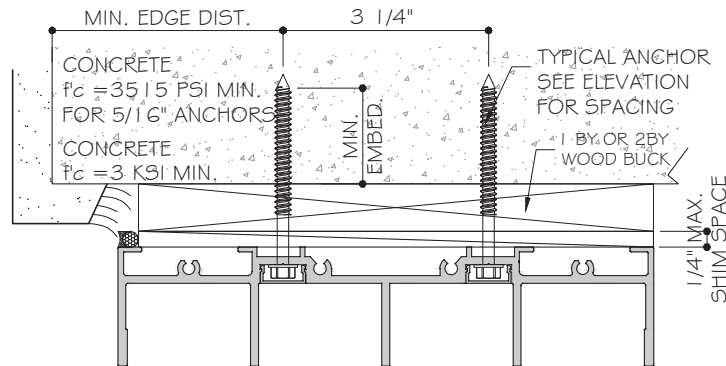
A6

Sheet No. 26 OF 59

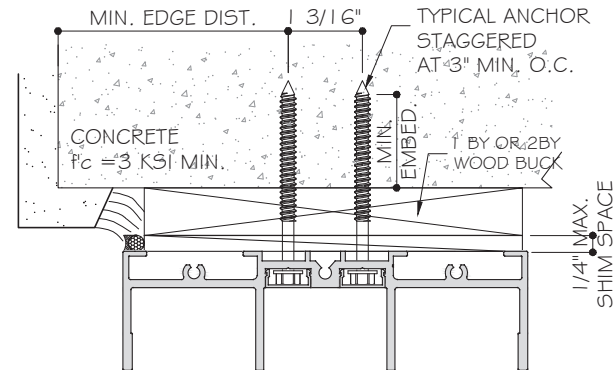
December 27th, 2023



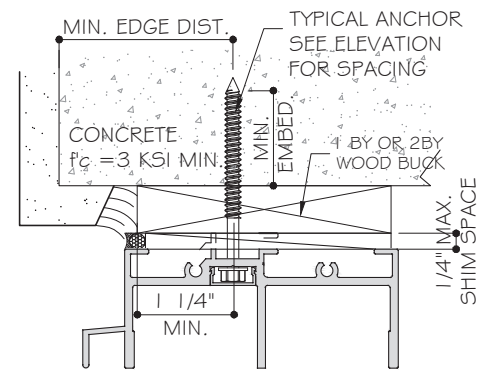
5 TRACK SGD



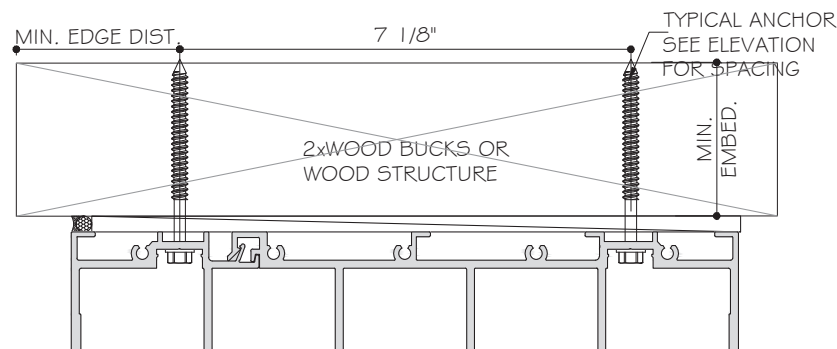
4 TRACK SGD



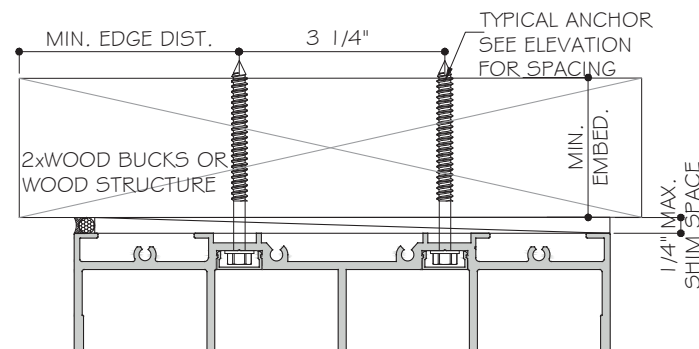
3 TRACK SGD



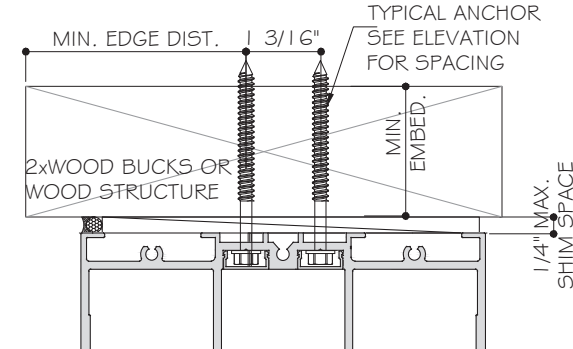
2 TRACK SGD



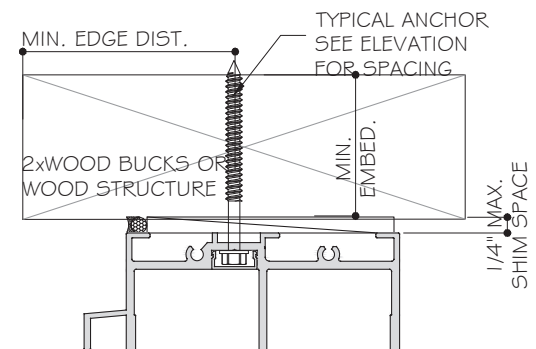
5 TRACK SGD



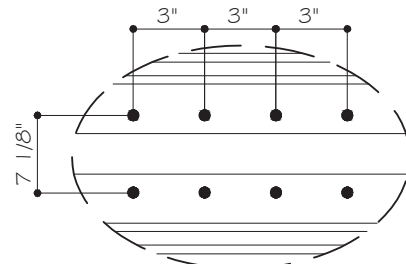
4 TRACK SGD



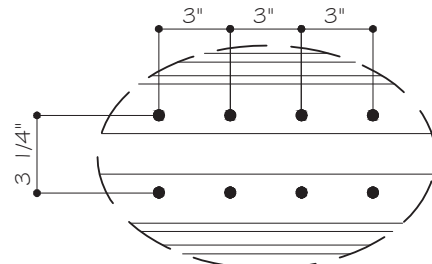
3 TRACK SGD



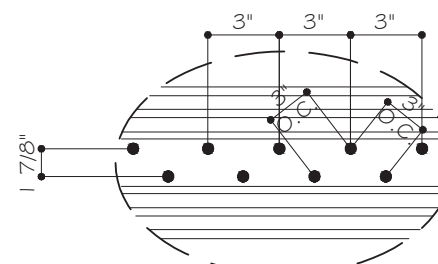
2 TRACK SGD



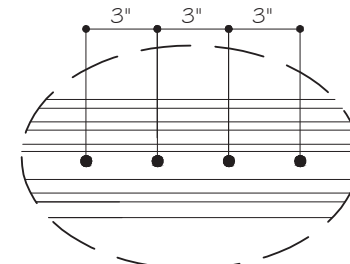
5 TRACK SGD



4 TRACK SGD



3 TRACK SGD



2 TRACK SGD

#### HEAD ANCHOR TYPES:

TYPE "AA": 1/4" DIA. KWIKCON ( $F_u = 138$  KSI,  $F_y = 137$  KSI)  
1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE  
SG=0.55 MIN.  
OR THRU 1BY OR 2BY WOOD BUCK WITH 1 3/4" MIN. EMBED  
INTO  $f'_c = 3000$  PSI CONCRETE  
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

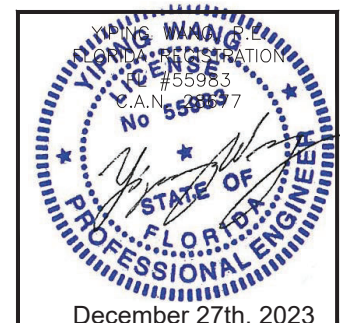
TYPE "BB": 1/4" DIA. ULTRACON+ BY DEWALT ( $F_u = 164$  KSI,  $F_y = 148$  KSI)  
1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE  
SG=0.55 MIN.  
OR THRU 1BY OR 2BY WOOD BUCK WITH 1 3/4" MIN. EMBED  
INTO  $f'_c = 3000$  PSI CONCRETE  
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

TYPE "CC": 5/16" DIA. ULTRACON BY DEWALT ( $F_u = 177$  KSI,  $F_y = 155$  KSI)  
1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE  
SG=0.55 MIN.  
OR THRU 1BY OR 2BY WOOD BUCK WITH 1 3/4" MIN. EMBED  
INTO  $f'_c = 3515$  PSI CONCRETE  
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

AA4 - A CLUSTER OF (4) TYPE "AA" ANCHORS AT HEAD  
AA6 - A CLUSTER OF (6) TYPE "AA" ANCHORS AT HEAD  
AA8 - A CLUSTER OF (8) TYPE "AA" ANCHORS AT HEAD  
AA10 - A CLUSTER OF (10) TYPE "AA" ANCHORS AT HEAD  
BB4 - A CLUSTER OF (4) TYPE "BB" ANCHORS AT HEAD  
BB6 - A CLUSTER OF (6) TYPE "BB" ANCHORS AT HEAD  
BB8 - A CLUSTER OF (8) TYPE "BB" ANCHORS AT HEAD  
BB10 - A CLUSTER OF (10) TYPE "BB" ANCHORS AT HEAD  
CC4 - A CLUSTER OF (4) TYPE "CC" ANCHORS AT HEAD  
CC6 - A CLUSTER OF (6) TYPE "CC" ANCHORS AT HEAD  
CC8 - A CLUSTER OF (8) TYPE "CC" ANCHORS AT HEAD  
CC10 - A CLUSTER OF (10) TYPE "CC" ANCHORS AT HEAD

#### NOTE:

WOOD BUCKS/ METAL STRUCTURES BY OTHERS MUST BE PROPERLY SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURES.



ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL. (305) 624-7775

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

| Rev. | Date       | Drawn By | Description |
|------|------------|----------|-------------|
| 1    | 12.04.2023 | James    | REVISION    |

|            |       |
|------------|-------|
| Drawn Date | Scale |
| 12.04.2023 |       |

DRAWING NO.  
AD16-29

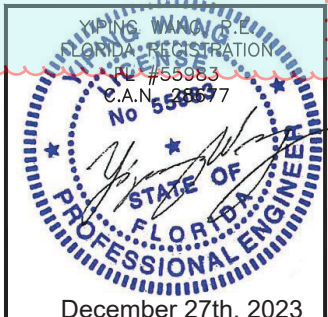
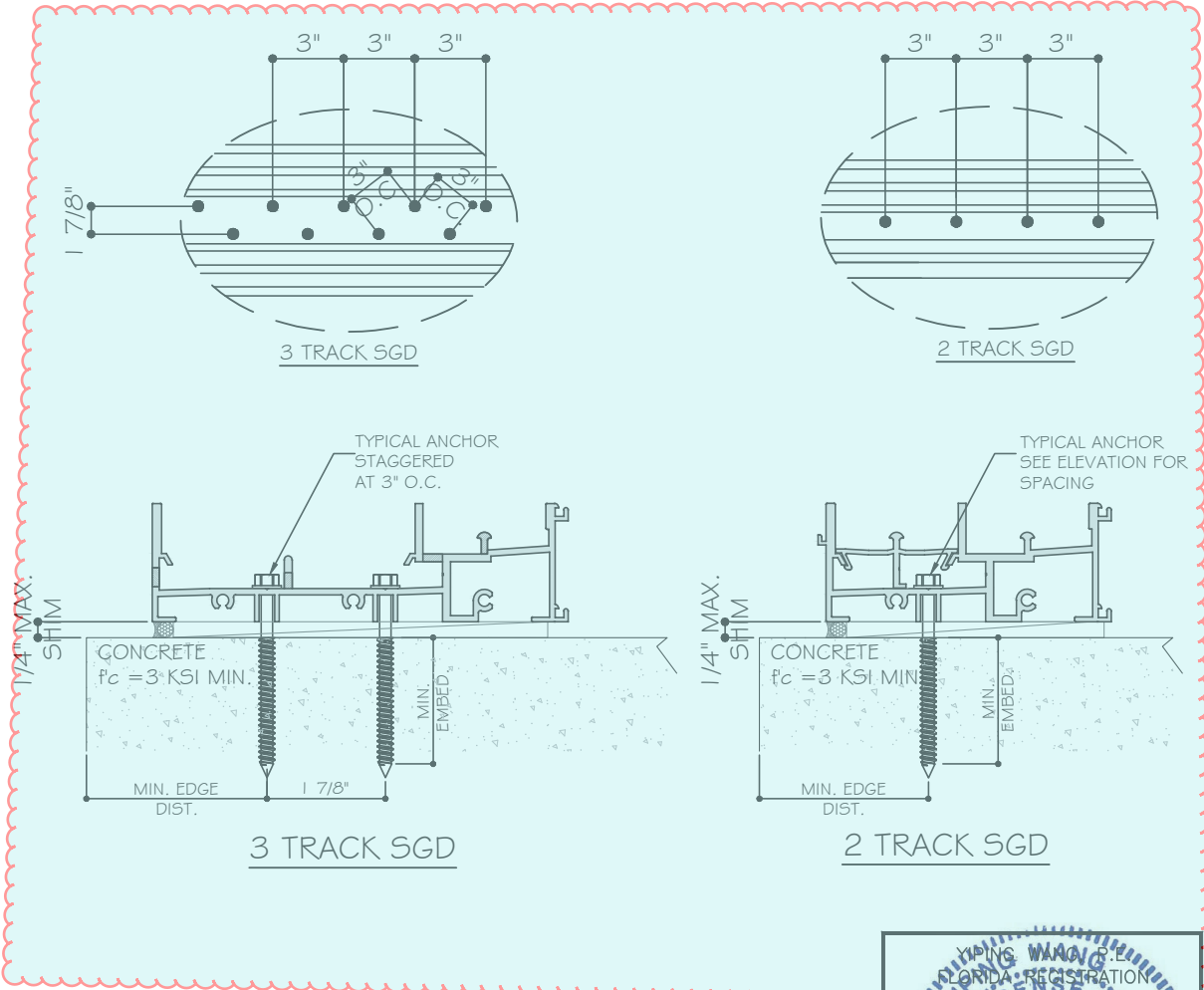
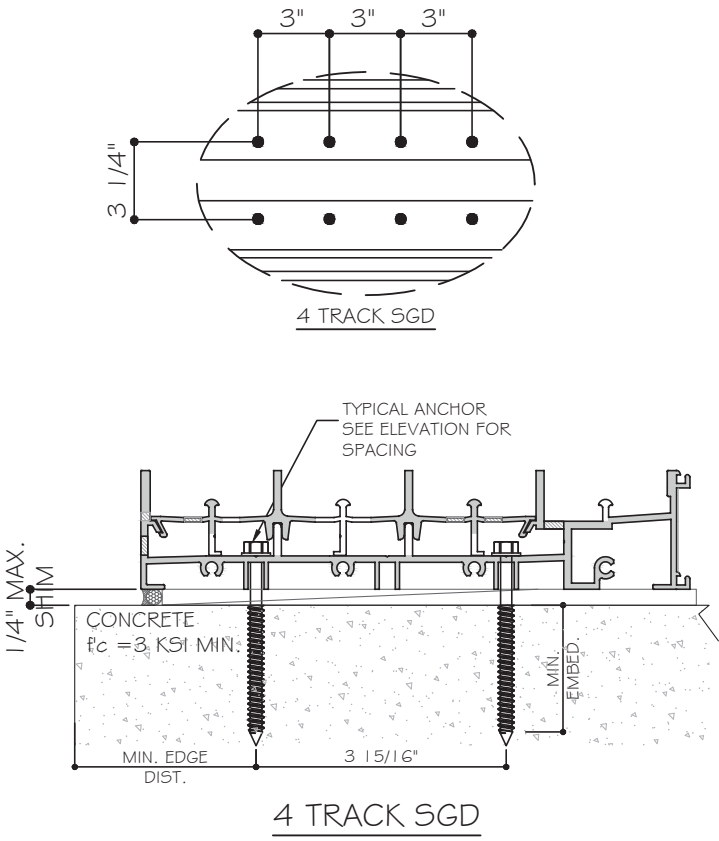
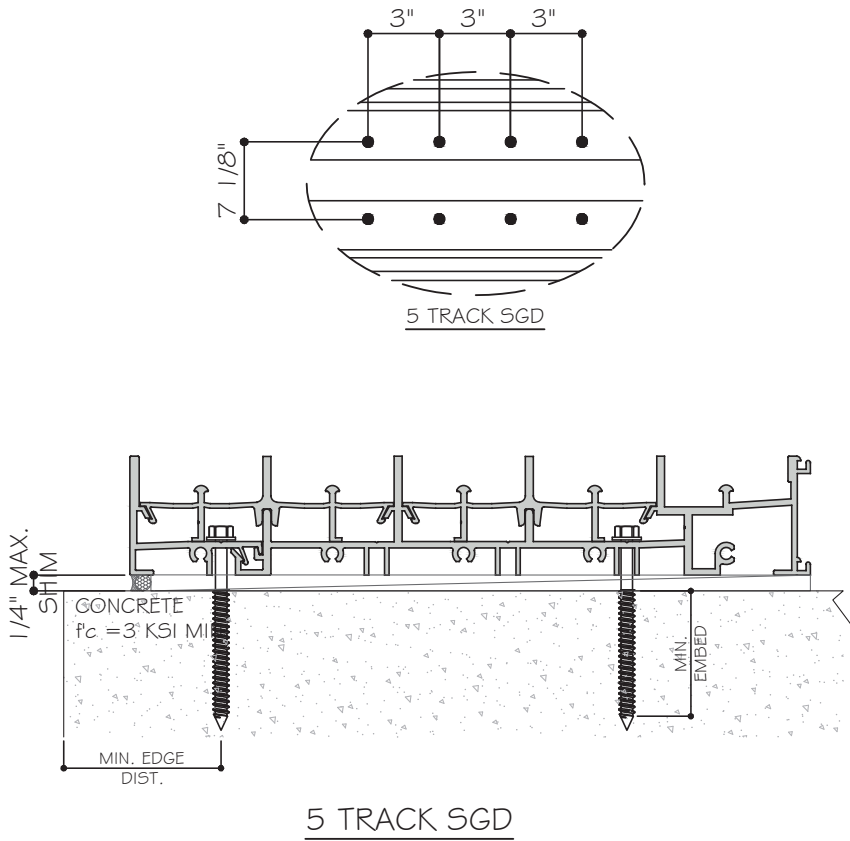
A7

Sheet No.  
27 OF 59

SILL ANCHOR TYPES:

TYPE "A": 1/4" DIA. KWIKCON ( $F_u=138$  KSI,  $F_y=137$  KSI)  
1 3/4" MIN. EMBED INTO  $f_c=3$  KSI MIN. CONCRETE  
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

TYPE "B": 1/4" DIA. ULTRACON+ ( $F_u=164$  KSI,  $F_y=148$  KSI)  
1 3/4" MIN. EMBED INTO  $f_c=3$  KSI MIN. CONCRETE  
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

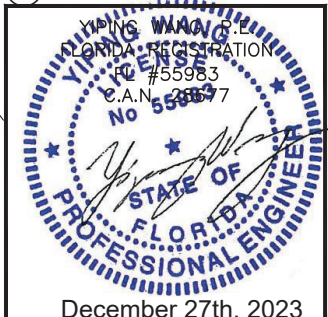
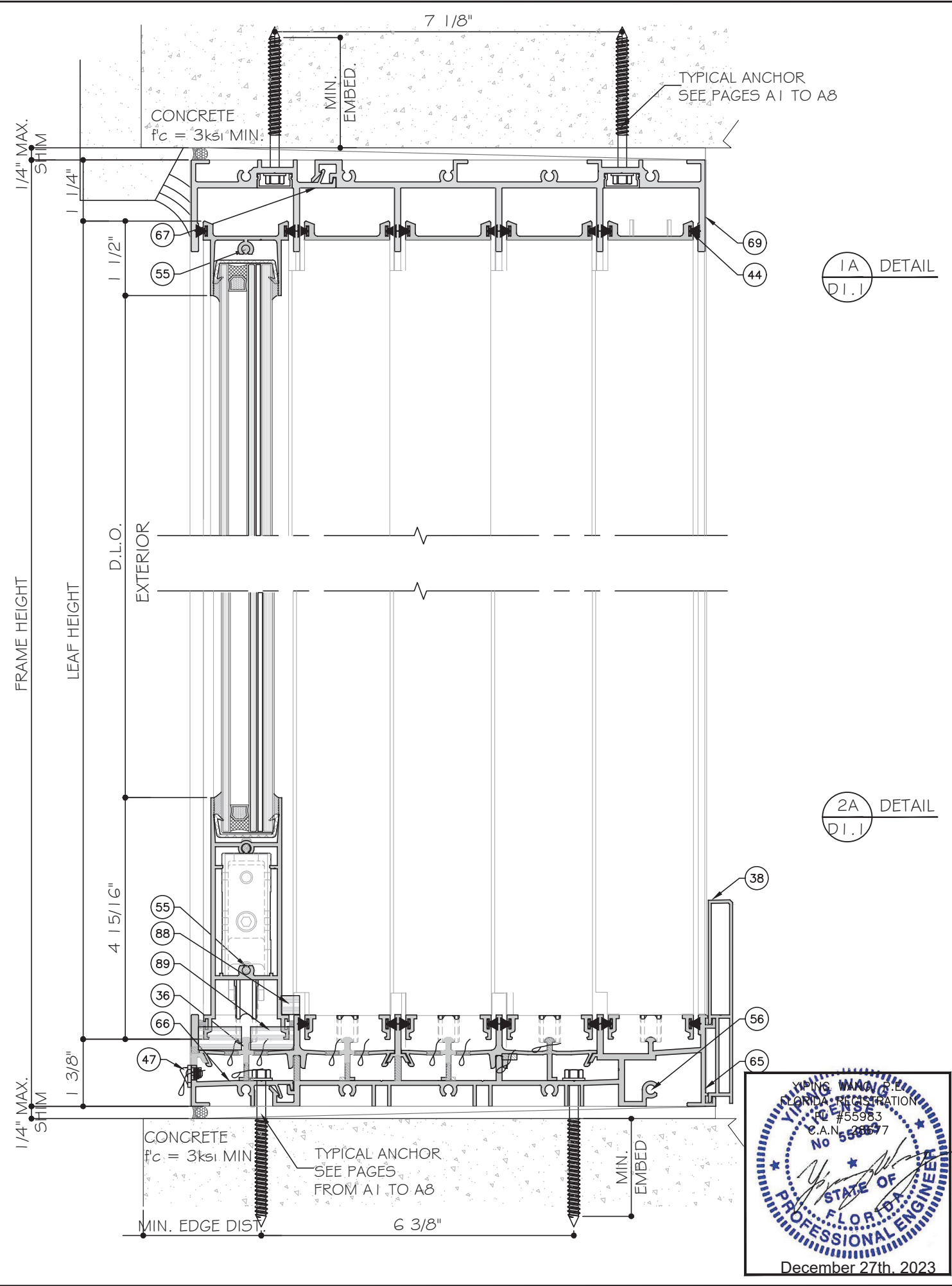
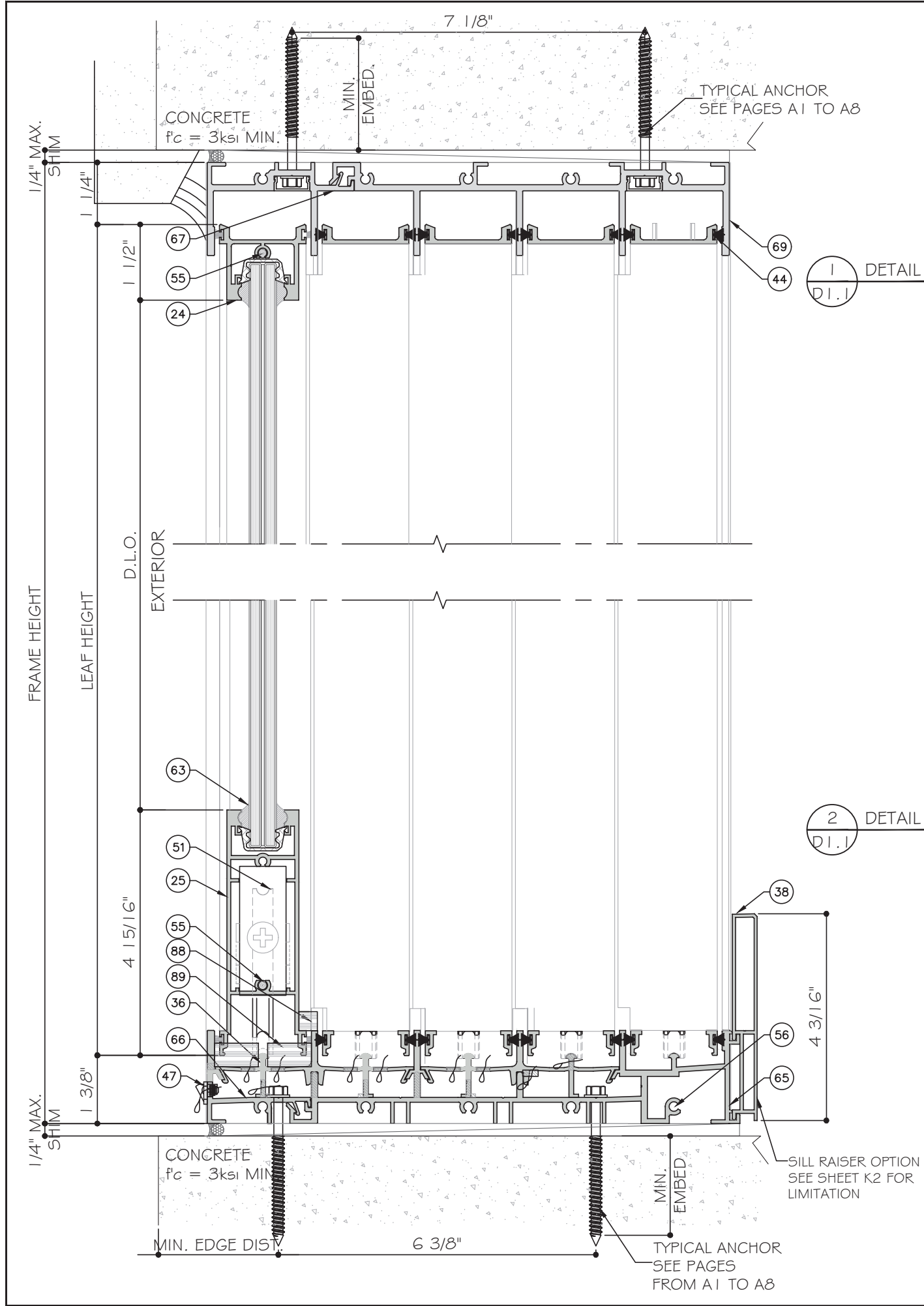


ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

**ES WINDOWS, INC.**  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

M

C

E

E

Y

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

| Rev. | No. | Date       | Drawn By | Description |
|------|-----|------------|----------|-------------|
| 1    | 1   | 12.04.2023 | James    |             |

Drawn Date  
12.04.2023

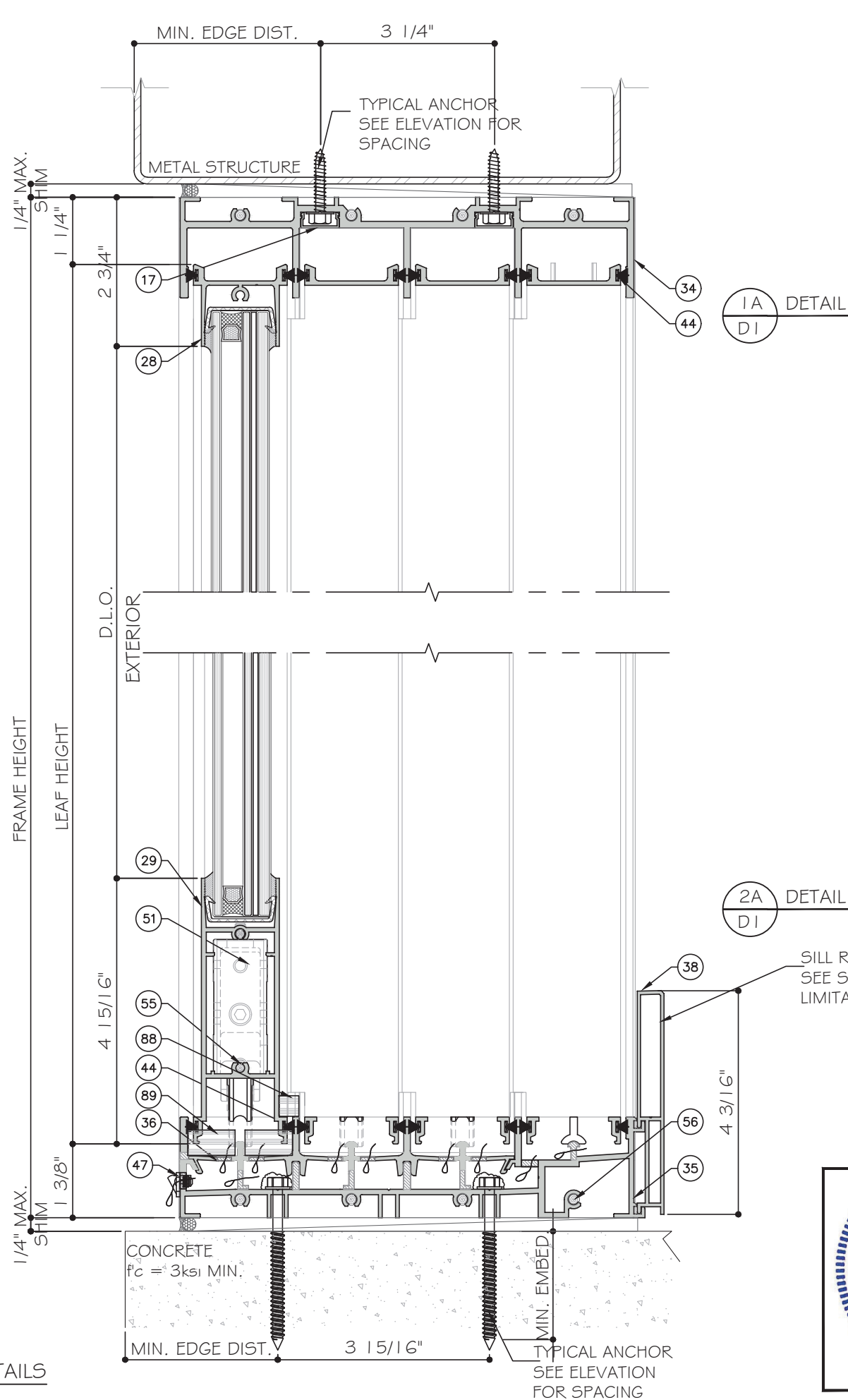
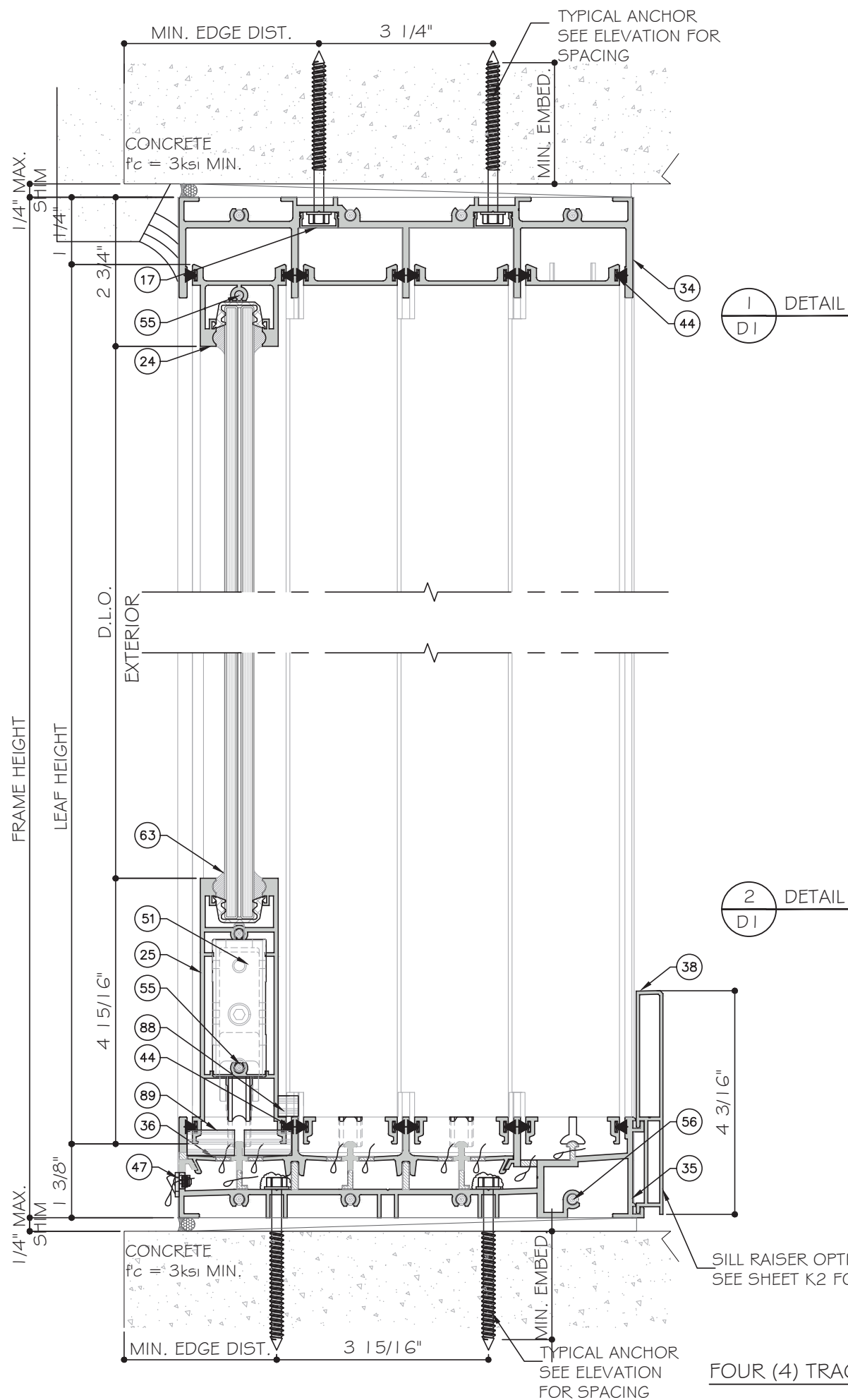
Scale

DRAWING NO.

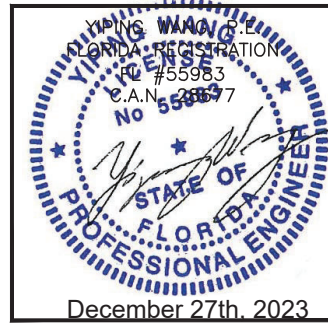
AD16-29

SHEET NO.

29 OF 59

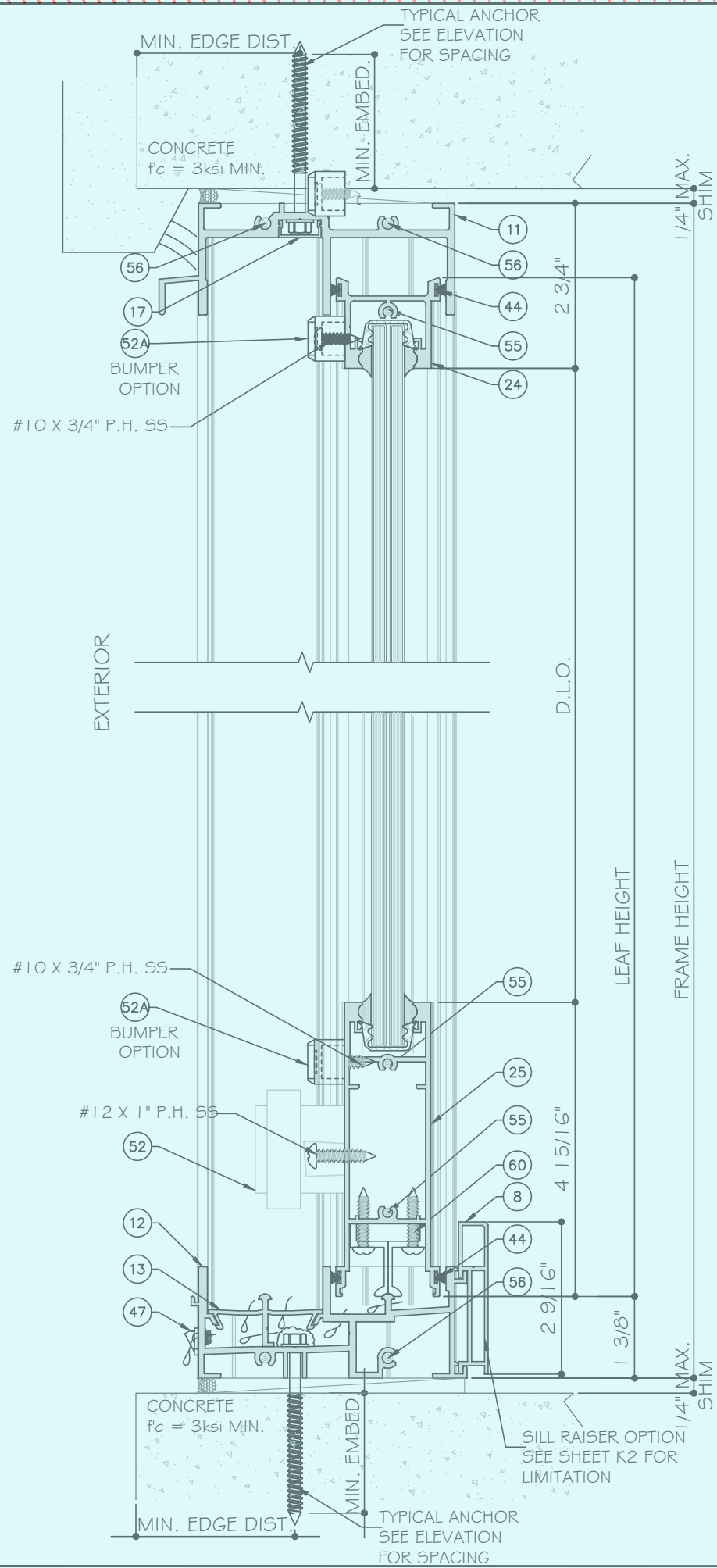


FOUR (4) TRACK DOOR DETAILS



|                                                                                                                                                                            |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>MCY ENGINEERING, INC.</b><br>GLAZING CONSULTANTS<br>12781 MIRAMAR PARKWAY #301<br>MIRAMAR, FL 33027<br>P: 305.271.0117<br>www.MCYEngineering.com mcy@mcyengineering.com |       |
| <b>ES-WINDOWS, INC.</b><br>10653 NE Quaybridge Ct.<br>Miami, FL 33138<br>TEL. (305) 624-7775                                                                               |       |
| ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)                                                                                                                                  |       |
| Drawn Date<br>12.04.2023                                                                                                                                                   | Scale |
| DRAWING NO.<br>AD16-29                                                                                                                                                     |       |
| Sheet No.<br>30 OF 59                                                                                                                                                      |       |

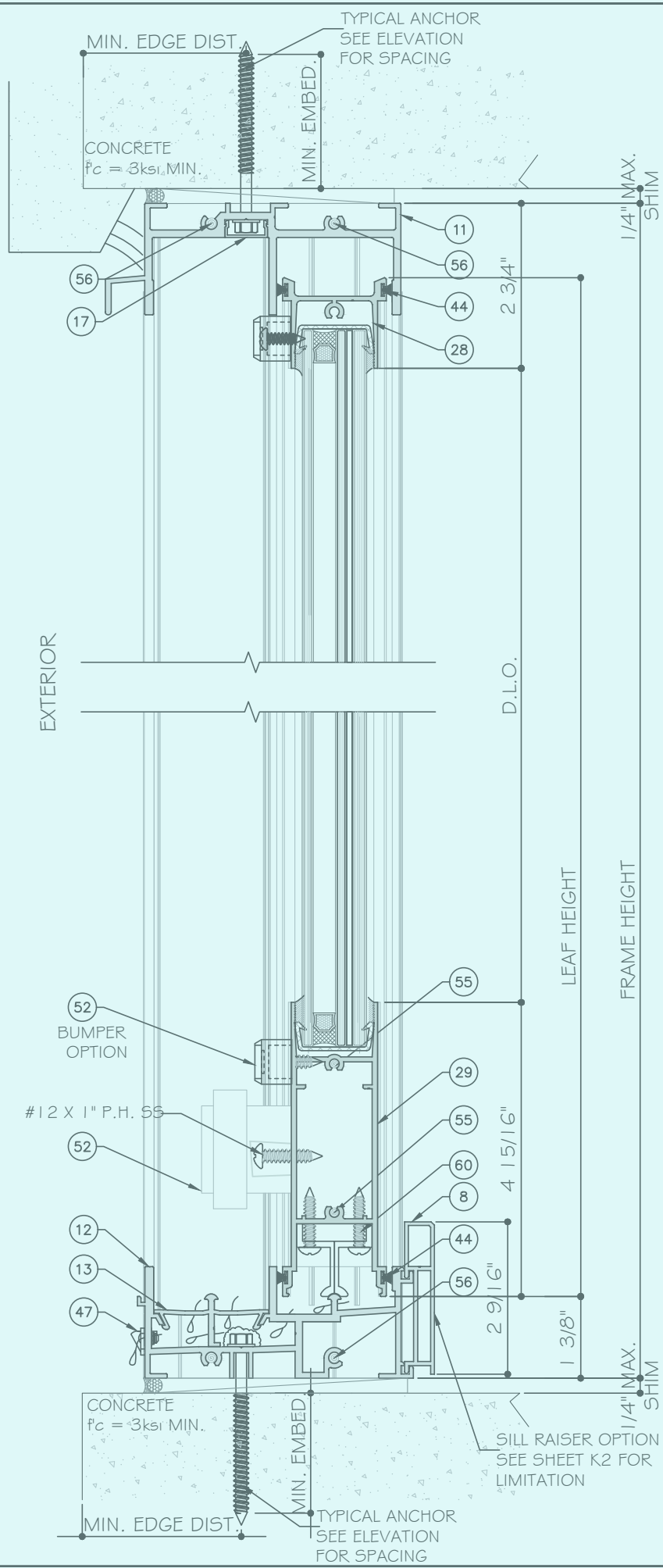




5  
D3  
DETAIL

6  
D3  
DETAIL

TWO (2) TRACK DOOR DETAILS



5A  
D3  
DETAIL

6A  
D3  
DETAIL



ES-WINDOWS, INC.

10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

MCY ENGINEERING, INC.

GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

| Rev | Date       | Drawn By          | Description |
|-----|------------|-------------------|-------------|
| 1   | 12.04.2023 | James J. McCreary | REVISION    |

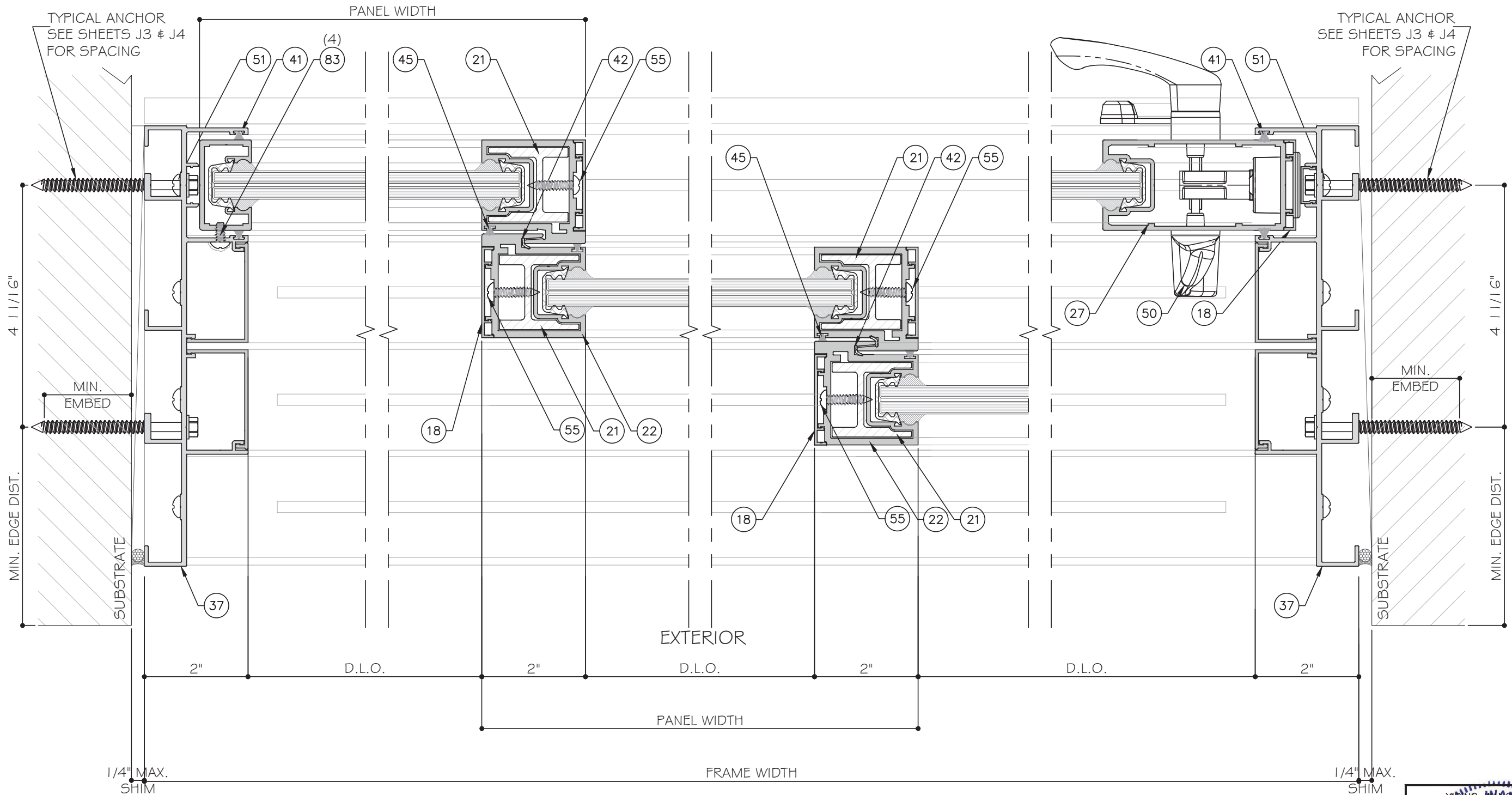
Drawn Date: 12.04.2023

Scale: 1/4" = 1'-0"

DRAWING NO. AD16-29

D3

Sheet No. 32 OF 59



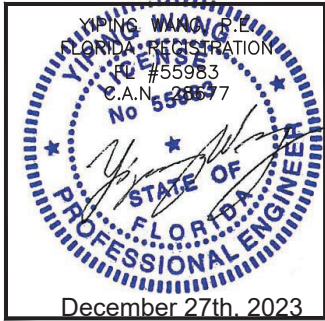
7  
D4  
DETAIL

8  
D4  
DETAIL

9  
D4  
DETAIL

7A  
D4  
DETAIL

FOUR (4) TRACK DOOR DETAILS



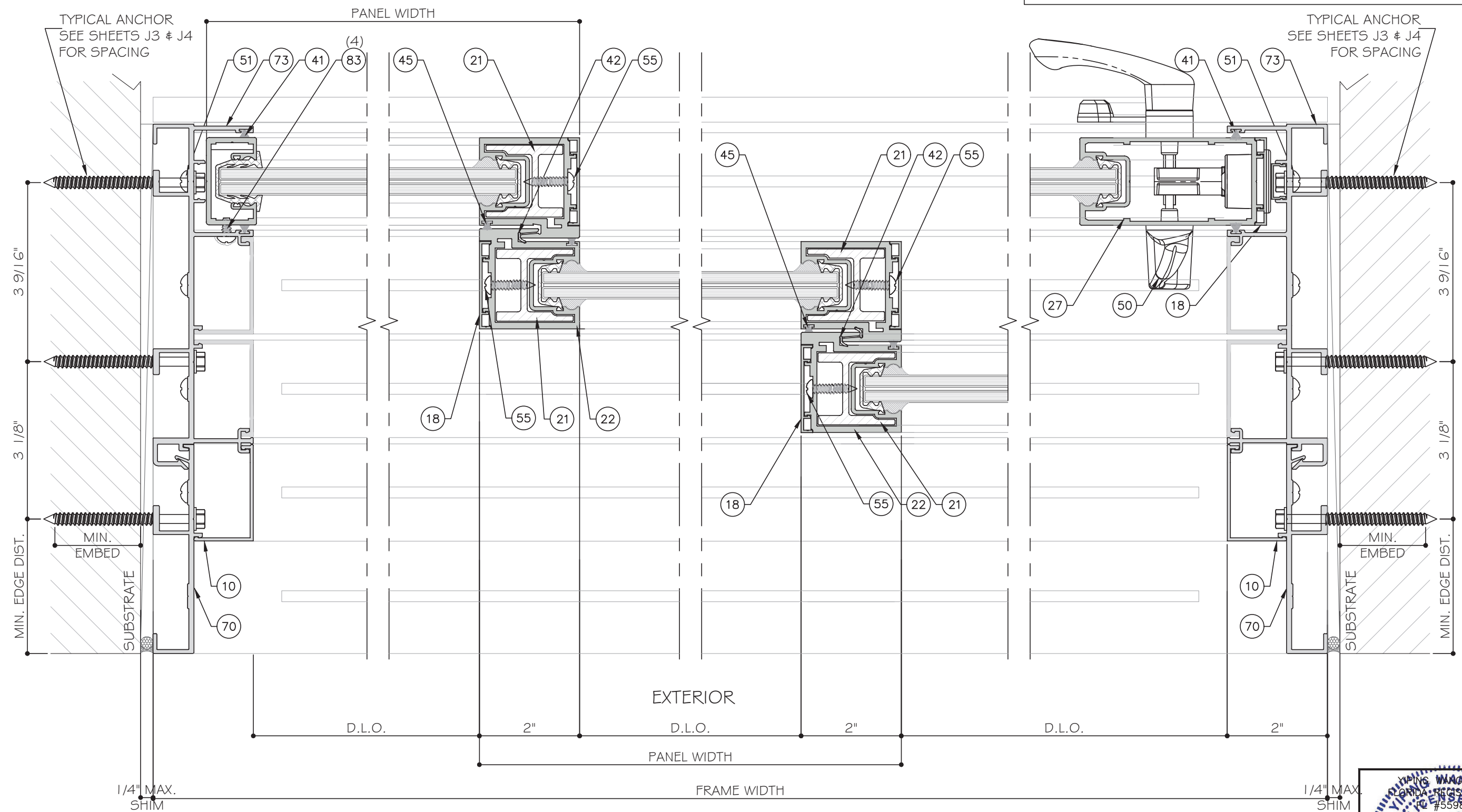
STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.  
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.  
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR  
OPTION 2.

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

MCY ENGINEERING, INC.  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

| Rev. No.                    | Date       | Drawn By | Description |
|-----------------------------|------------|----------|-------------|
| 1                           | 12.04.2023 | James    | REVISION    |
| Drawn Date 12.04.2023 Scale |            |          |             |
| DRAWING NO. AD16-29         |            |          |             |
| D4                          |            |          |             |
| Sheet No. 33 OF 59          |            |          |             |



STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT. LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.

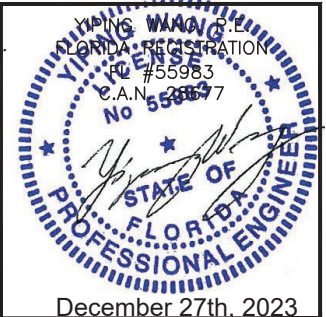
7  
D4.1  
DETAIL

8  
D4.1  
DETAIL

9  
D4.1  
DETAIL

7A  
D4.1  
DETAIL

FIVE (5) TRACK DOOR DETAILS



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

**ES WINDOWS, INC.**  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

| Rev | Date       | Drawn By | Description |
|-----|------------|----------|-------------|
| 1   | 12.04.2023 | James    |             |

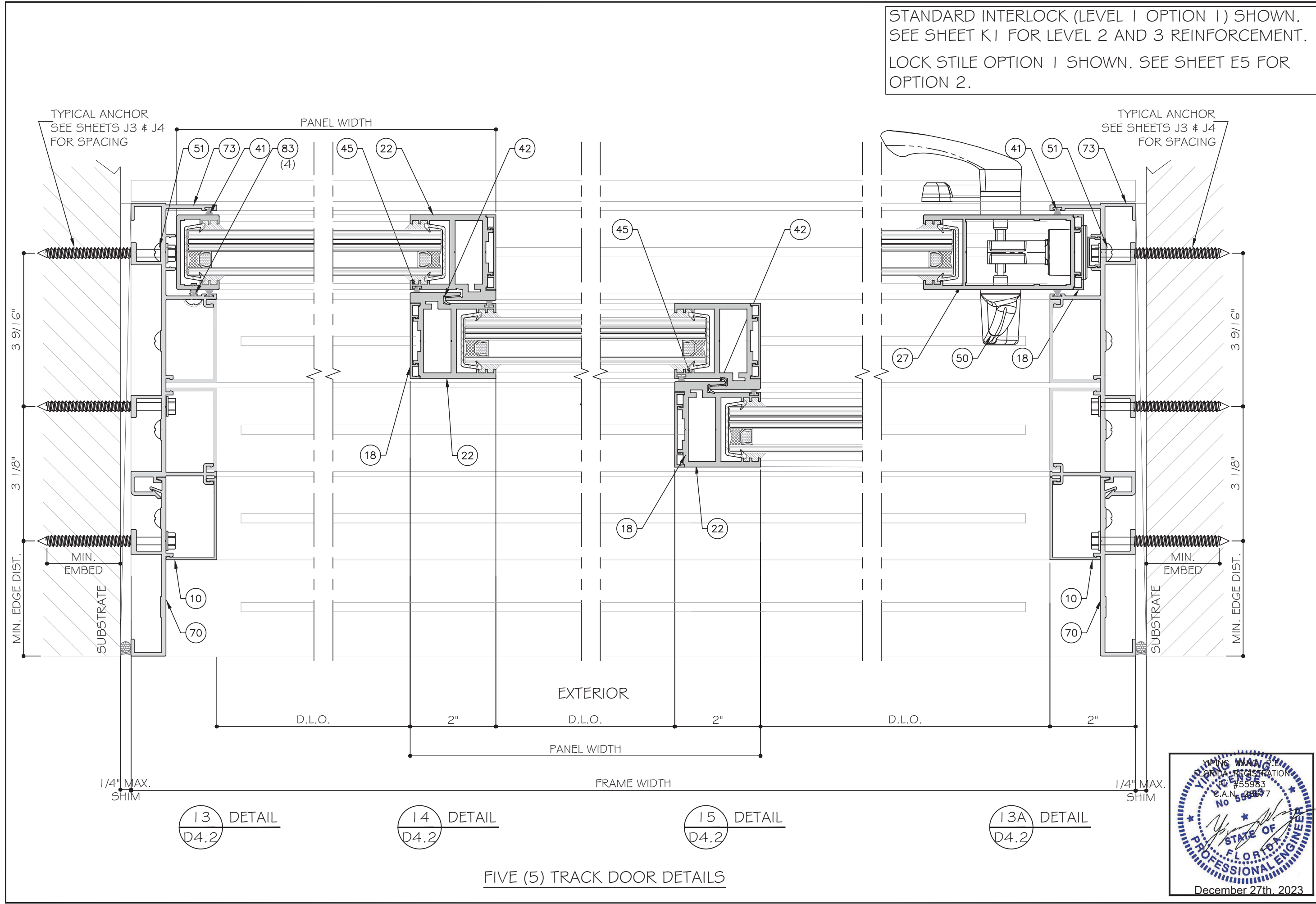
Drawn Date: 12.04.2023

Scale:

DRAWING NO. AD16-29

D4.1

Sheet No. 34 OF 59



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

ES-WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL: (305) 624-7775

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

| Rev | No. | Date       | Drawn By | Description |
|-----|-----|------------|----------|-------------|
| 1   | 1   | 12.04.2023 | James    |             |

Drawn Date: 12.04.2023

Scale:

DRAWING NO. AD16-29

D4.2

Sheet No. 35 OF 59

YONG WANG

FLORIDA REGISTRATION

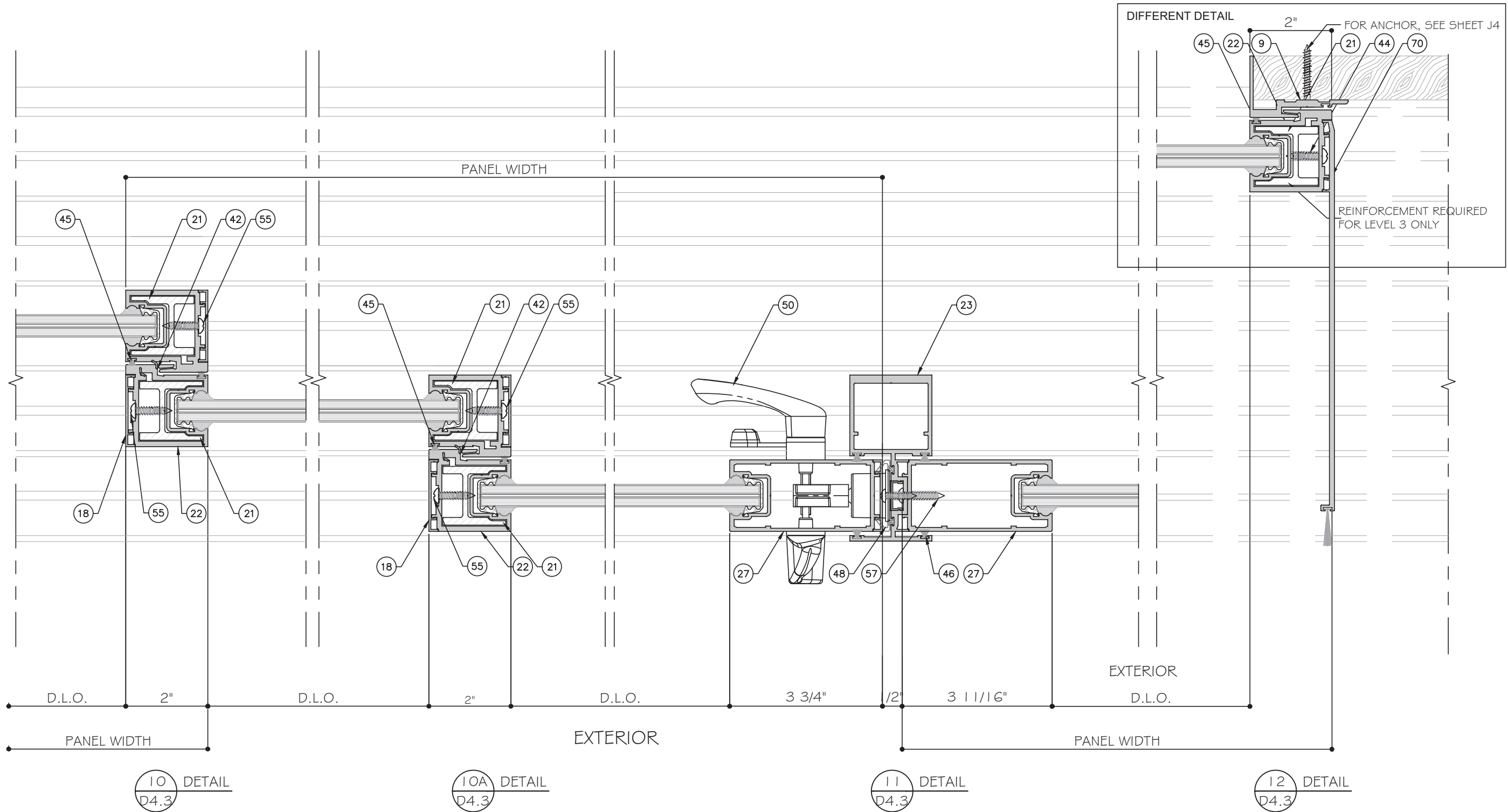
FL #55983

C.A.N. No 55983

STATE OF FLORIDA

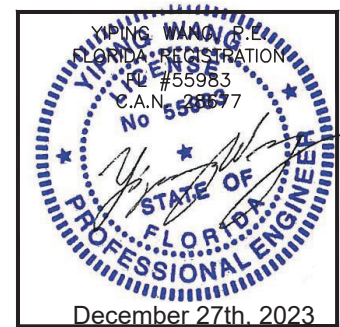
PROFESSIONAL ENGINEER

December 27th, 2023



STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.  
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.  
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR  
OPTION 2.

### FIVE (5) TRACK DOOR DETAILS



ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

| Rev. No. | Date       | Drawn By | Description |
|----------|------------|----------|-------------|
| 1        | 12.04.2023 | James    | REVISION    |

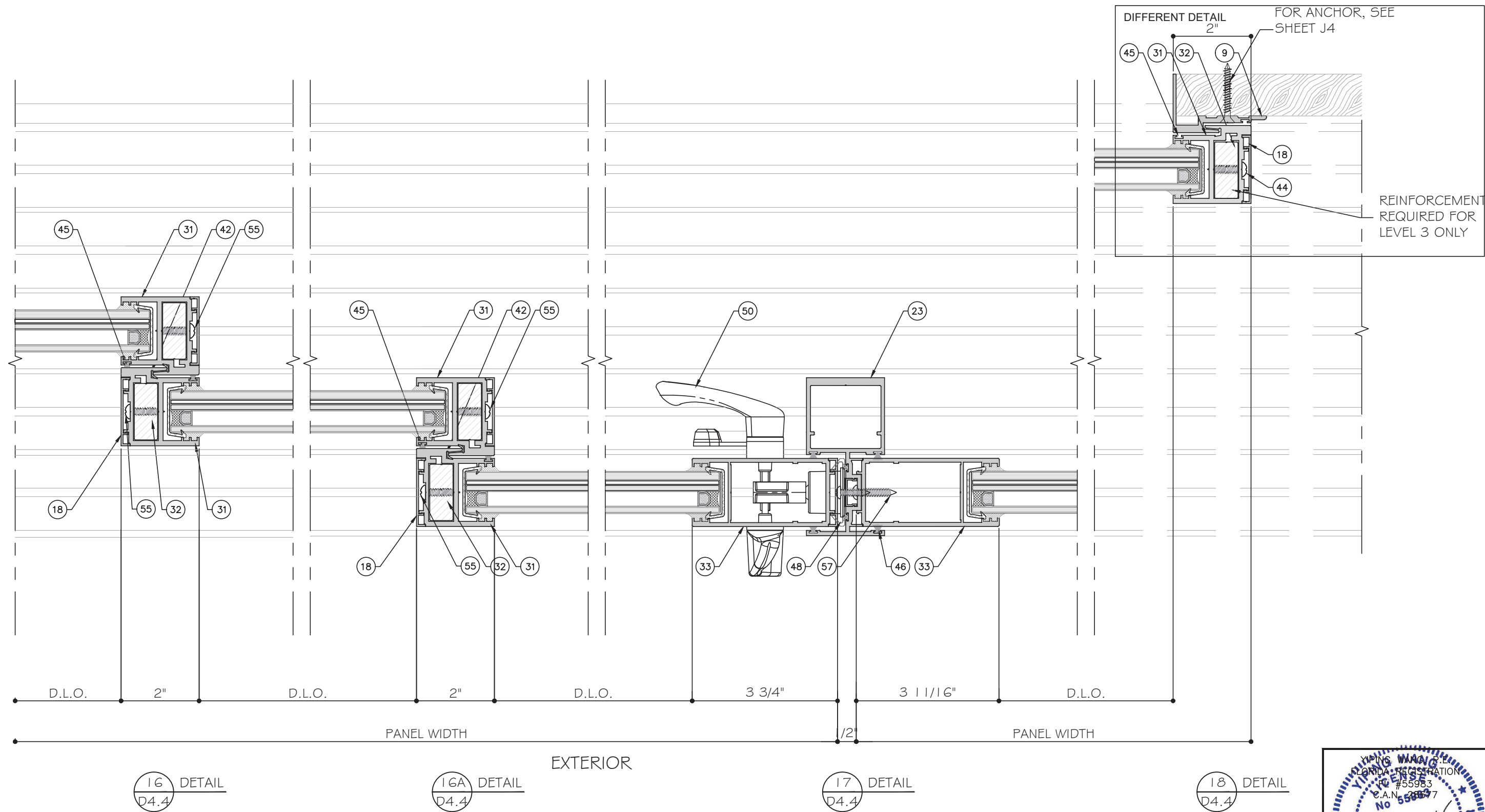
Drawn Date  
12.04.2023

Scale

DRAWING NO.  
AD16-29

D4.3

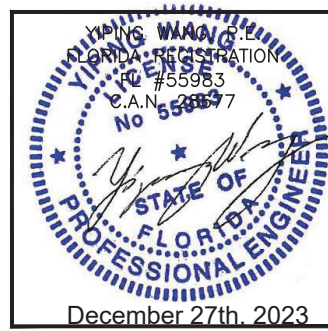
Sheet No.  
36 OF 59



STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.  
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.  
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR  
OPTION 2.

EXTERIOR

FIVE (5) TRACK DOOR DETAILS



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

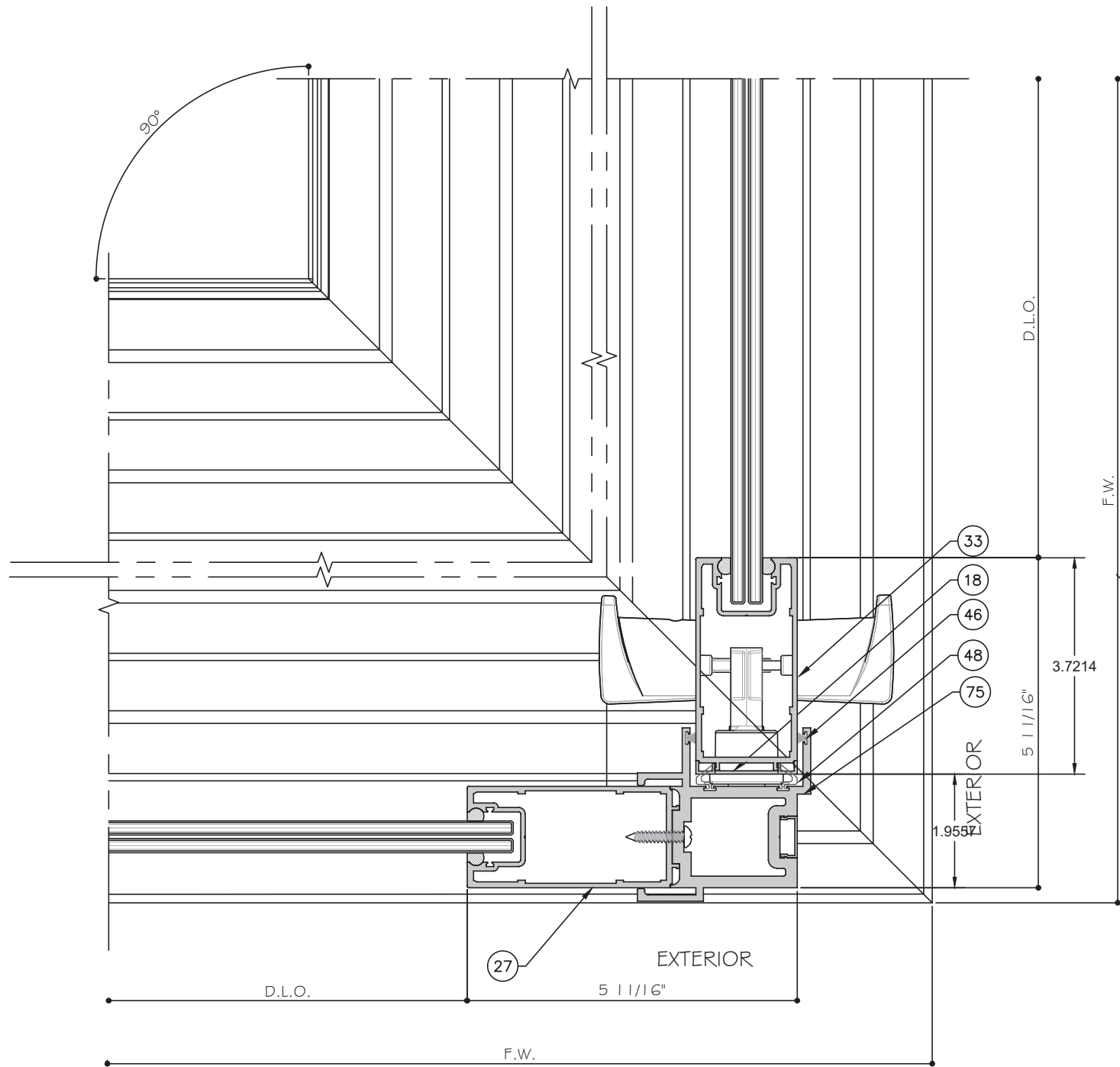
**ES WINDOWS, INC.**  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

| Rev. No. | Date       | Drawn By | Description |
|----------|------------|----------|-------------|
| 1        | 12.04.2023 | James    |             |

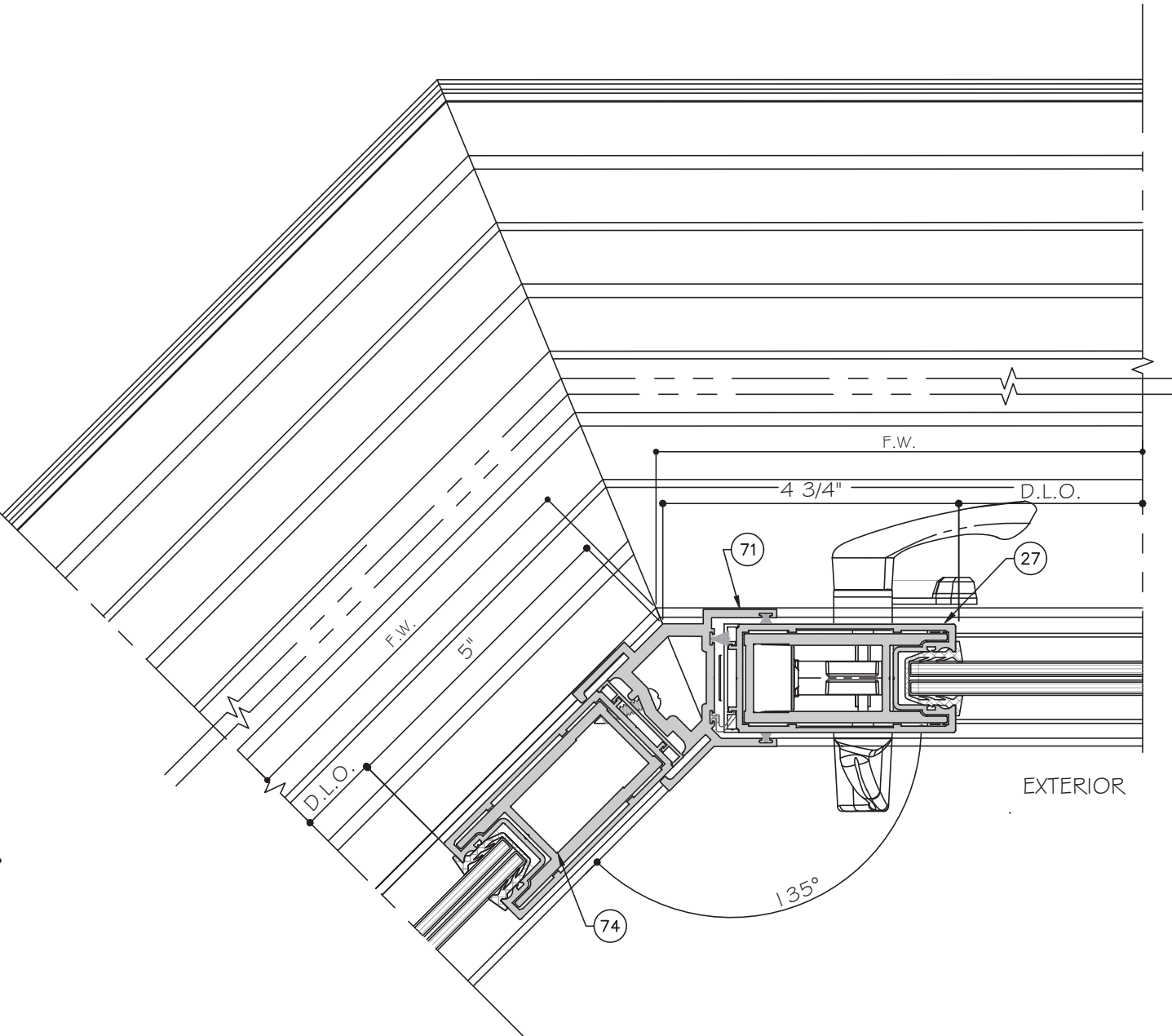
Drawn Date  
12.04.2023

DRAWING NO.  
**AD16-29**

Sheet No.  
**37 OF 59**



43 DETAIL  
D4.5

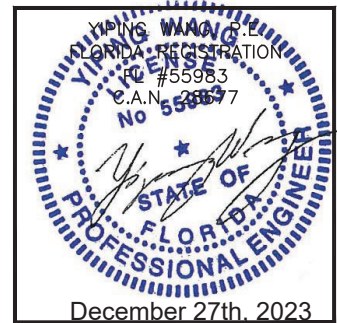


44 DETAIL  
D4.5

## CORNER DETAILS

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT. LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.



ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027 P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

| No. | Rev. | Date       | Drawn By | Description |
|-----|------|------------|----------|-------------|
| 1   | 1    | 12.04.2023 | James    | REVISION    |

Drawn Date  
12.04.2023

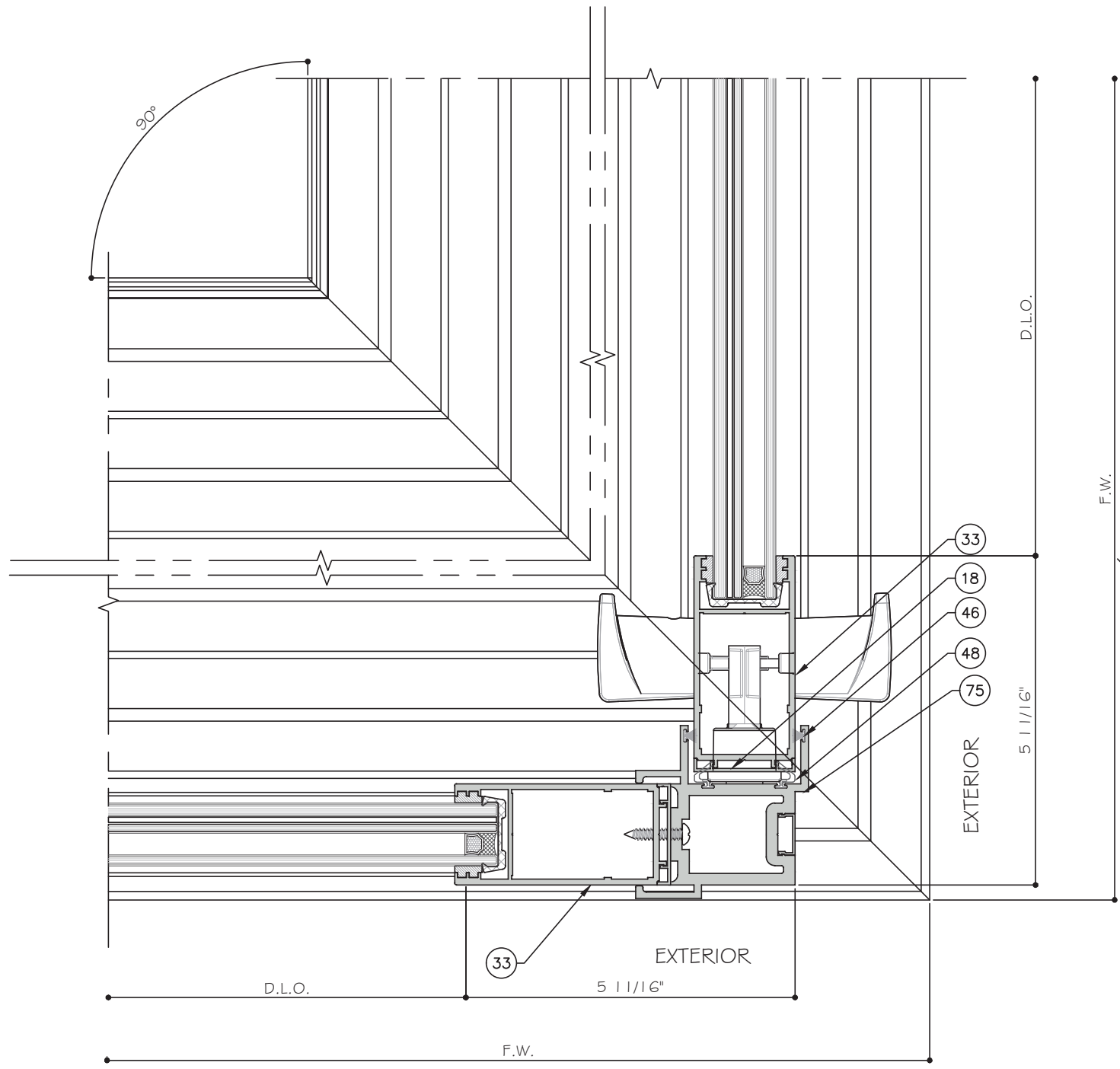
Scale

DRAWING NO.

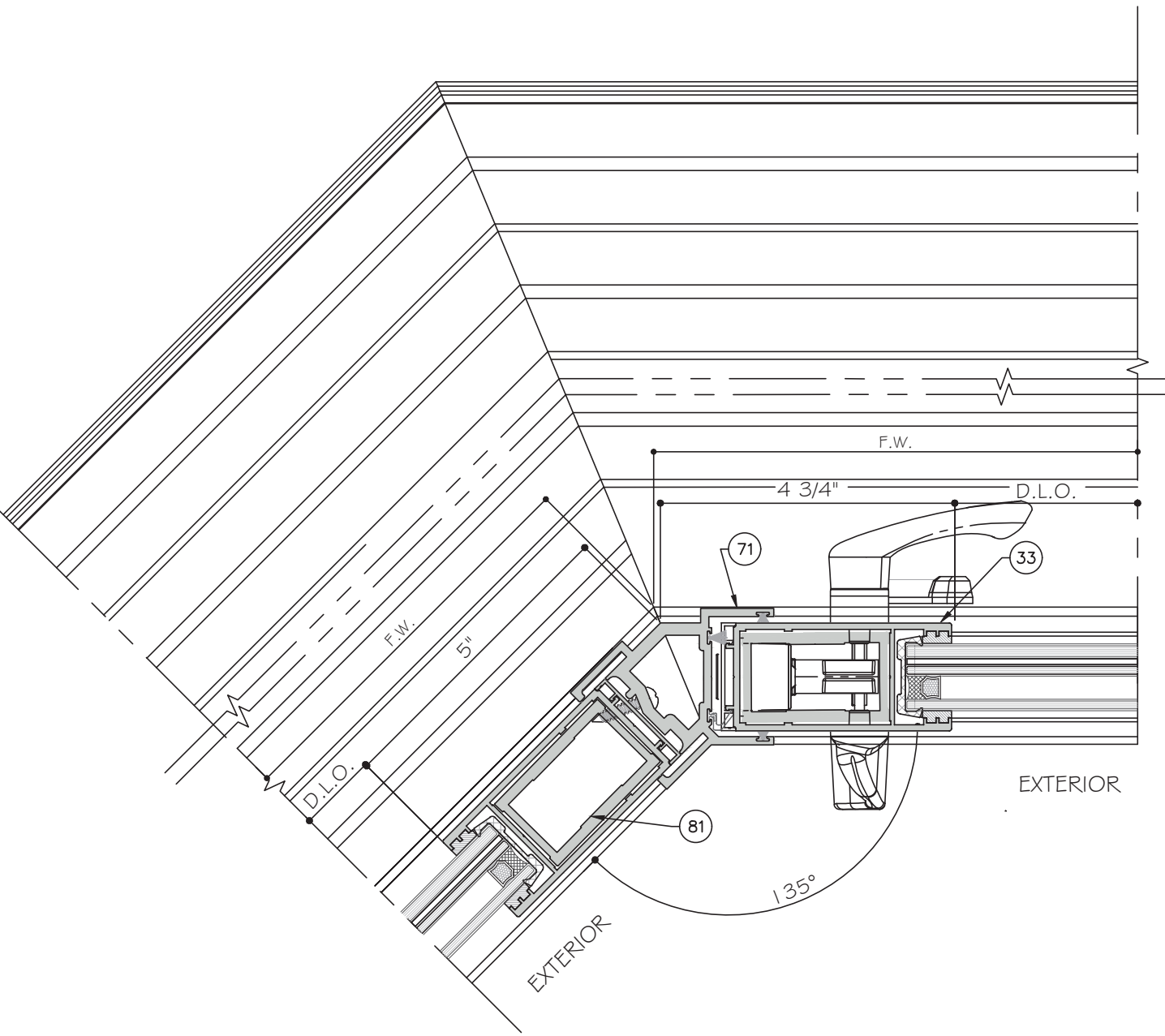
AD16-29

D4.5

Sheet No.  
38 OF 59



45 DETAIL  
D4.6

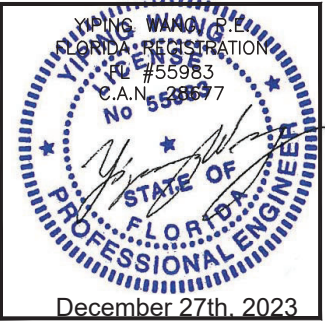


46 DETAIL  
D4.6

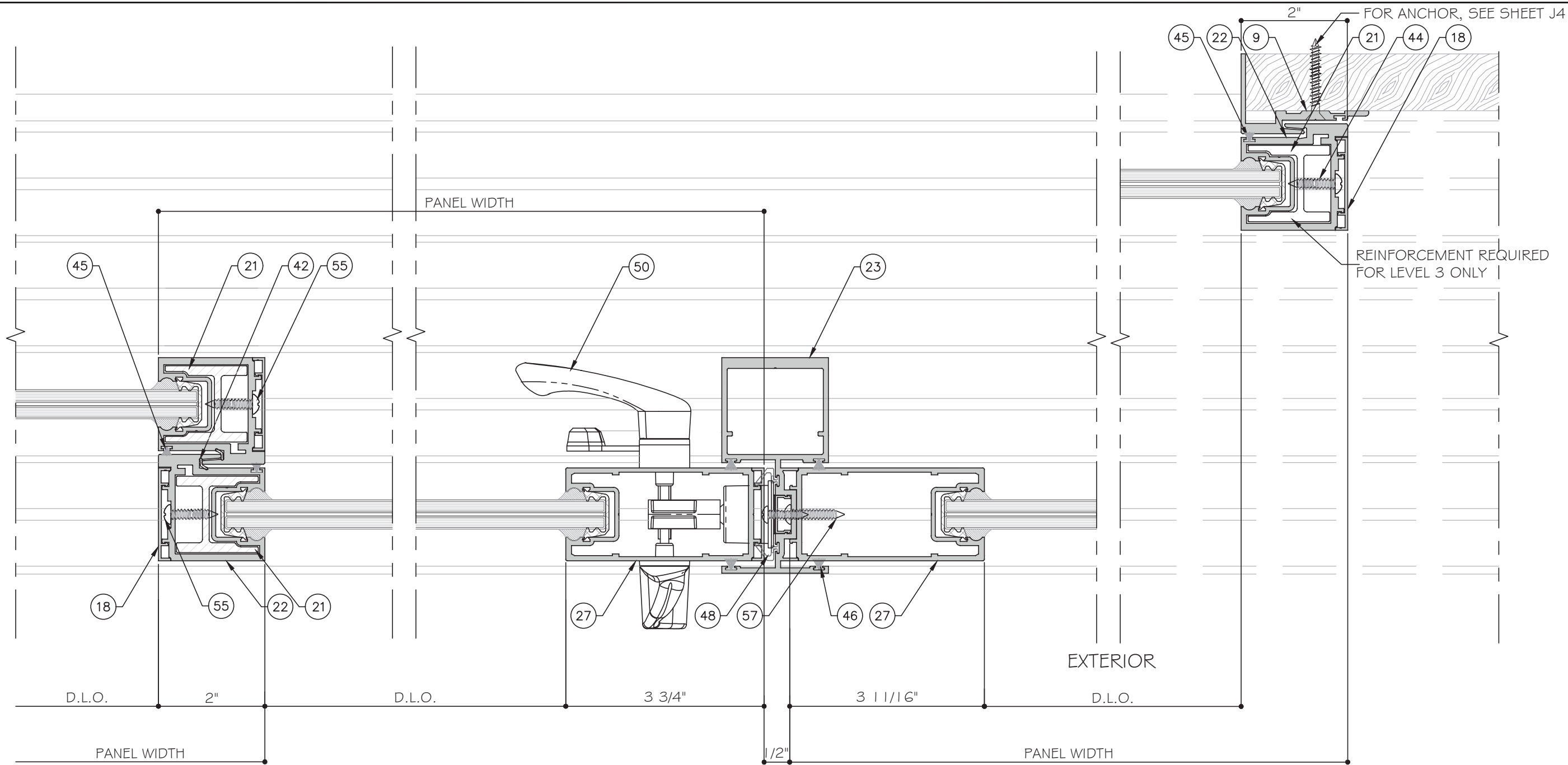
### CORNER DETAILS

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT. LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.



|                                                                                                                                                                            |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>MCY ENGINEERING, INC.</b><br>GLAZING CONSULTANTS<br>12781 MIRAMAR PARKWAY #301<br>MIRAMAR, FL 33027<br>P: 305.271.0117<br>www.MCYEngineering.com mcy@mcyengineering.com |             |
| <b>ES WINDOWS, INC.</b><br>10653 NE Quaybridge Ct.<br>Miami, FL 33138<br>TEL. (305) 624-7775                                                                               |             |
| ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)                                                                                                                                  |             |
| No.<br>12.04.2023                                                                                                                                                          | Rev.<br>No. |
| Drawn By<br>James                                                                                                                                                          | Description |
| Drawn Date<br>12.04.2023                                                                                                                                                   | Scale       |
| DRAWING NO.<br><b>AD16-29</b>                                                                                                                                              |             |
| Sheet No.<br><b>39 OF 59</b>                                                                                                                                               |             |



10  
D5

DETAIL

11  
D5

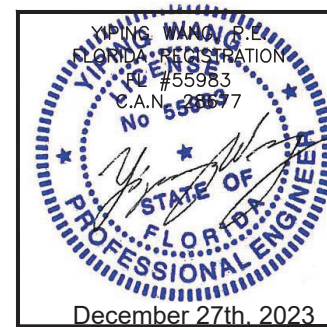
DETAIL

12  
D5

DETAIL

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.  
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.  
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR  
OPTION 2.

#### FOUR (4) TRACK DOOR DETAILS



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

**ES WINDOWS, INC.**  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

| Rev. No. | Date       | Drawn By | Description |
|----------|------------|----------|-------------|
| 1        | 12.04.2023 | James    | REVISION    |

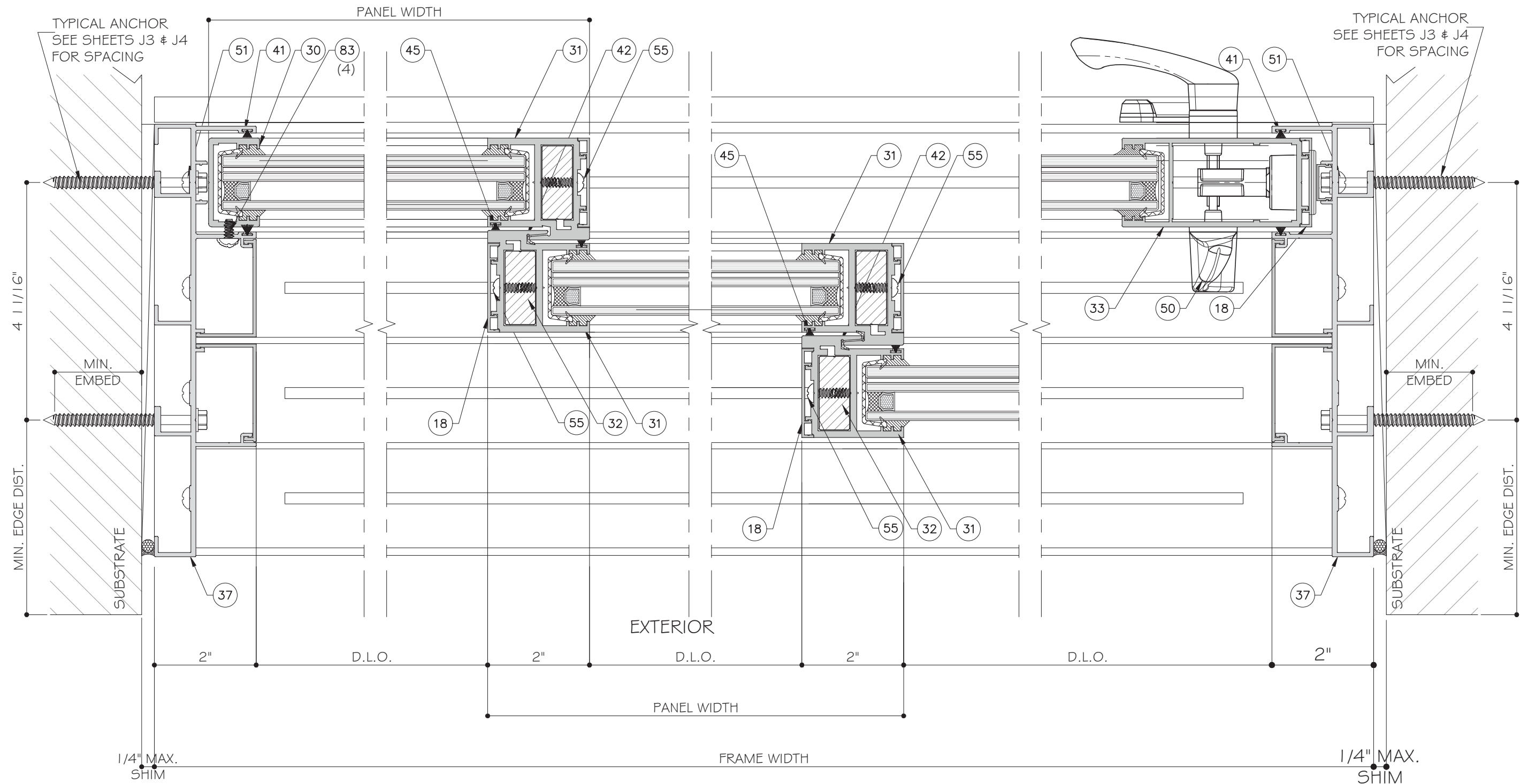
Drawn Date: 12.04.2023

Scale:

DRAWING NO. AD16-29

Sheet No. D5

40 OF 59



13  
D6

DETAIL

14  
D6

DETAIL

15  
D6

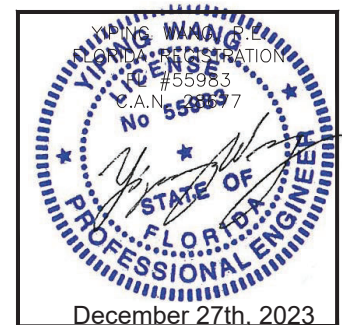
DETAIL

13A  
D6

DETAIL

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.  
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.  
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR  
OPTION 2.

FOUR (4) TRACK DOOR DETAILS



ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcycyengineering.com

| No. | Rev. | Date       | Drawn By | Description |
|-----|------|------------|----------|-------------|
| 1   | 1    | 12.04.2023 | James    | REVISION    |

Drawn Date 12.04.2023

Scale

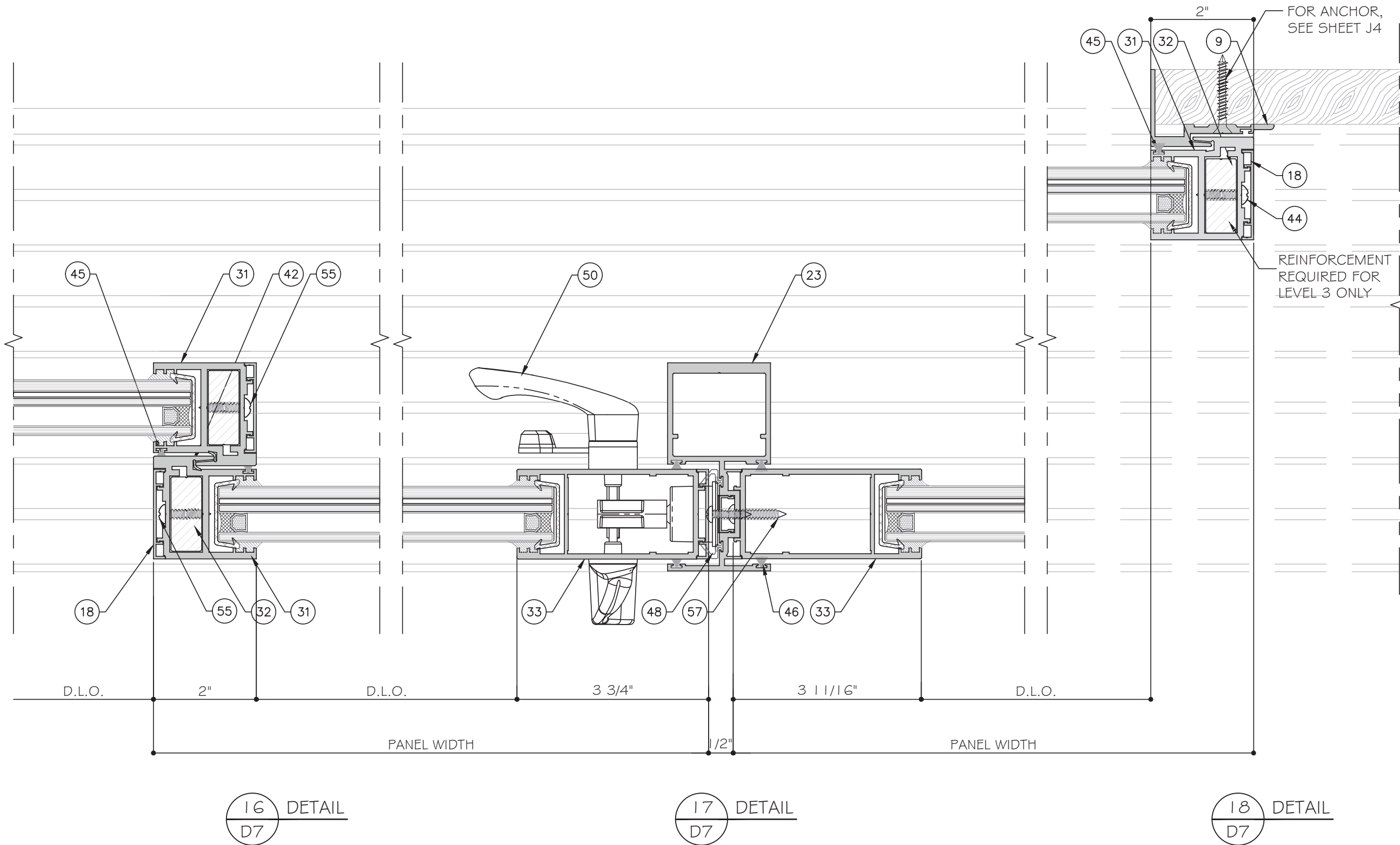
DRAWING NO.

AD16-29

D6

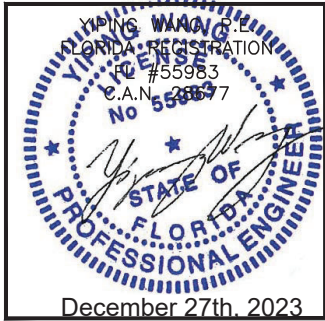
Sheet No.

41 OF 59



STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.  
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.  
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR  
OPTION 2.

FOUR (4) TRACK DOOR DETAILS



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

**ES WINDOWS, INC.**  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

| Rev. No. | Date       | Drawn By | Description |
|----------|------------|----------|-------------|
| 1        | 12.04.2023 | James    | REVISION    |

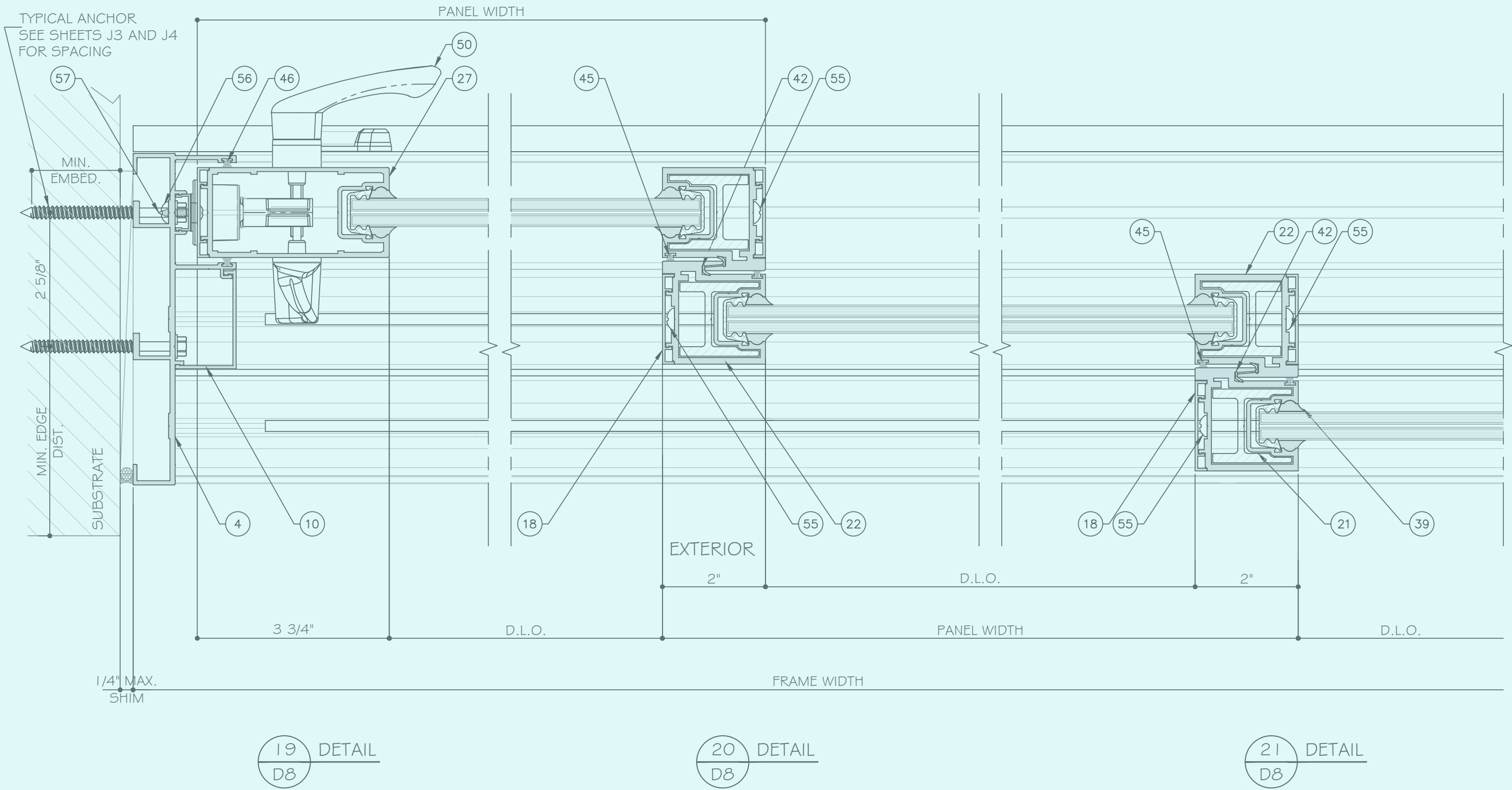
Drawn Date: 12.04.2023

Scale:

DRAWING NO. AD16-29

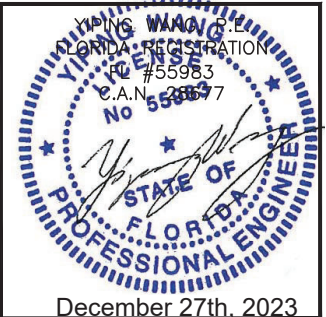
Sheet No. D7

42 OF 59

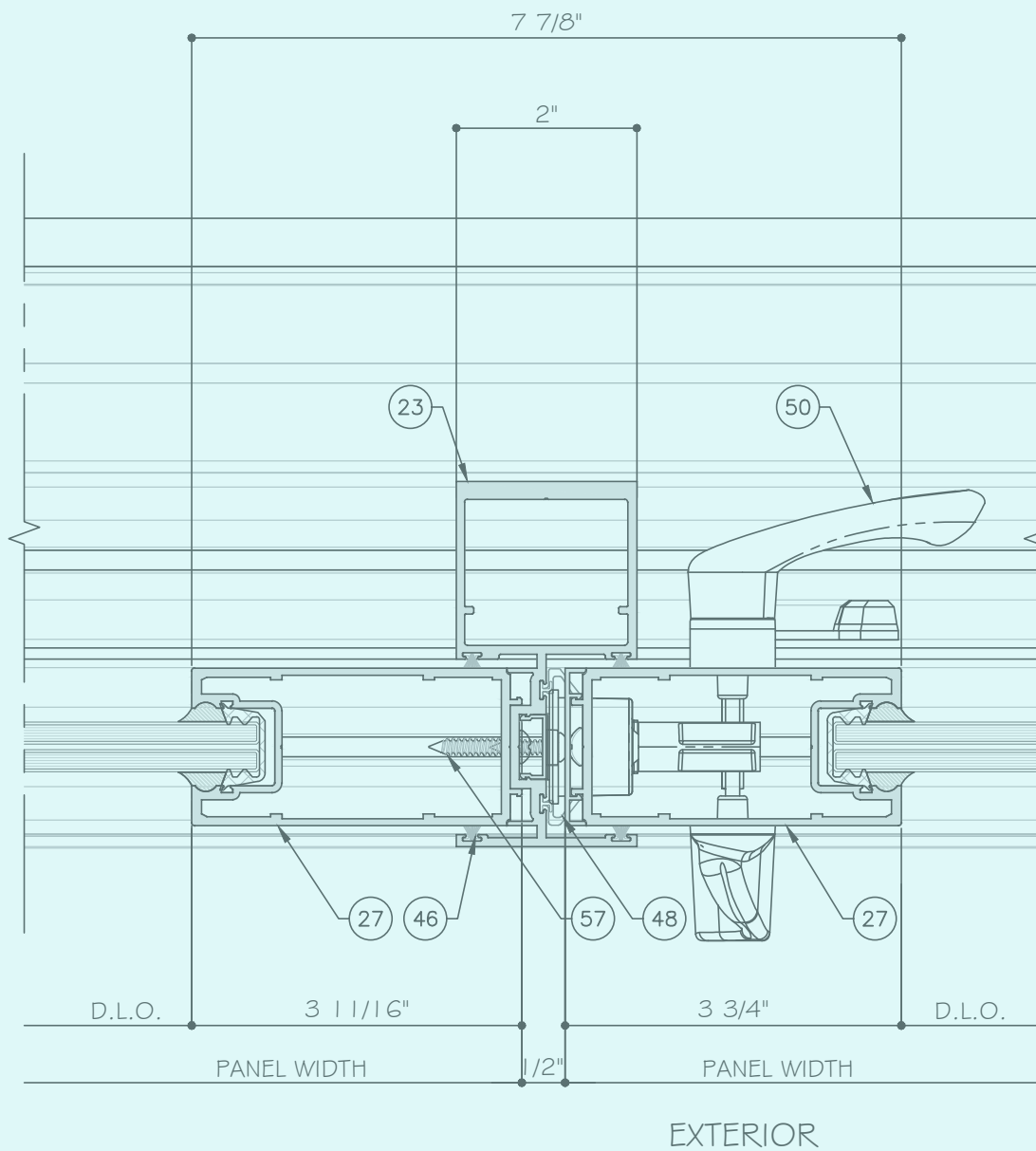


STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.  
 SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.  
 LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR  
 OPTION 2.

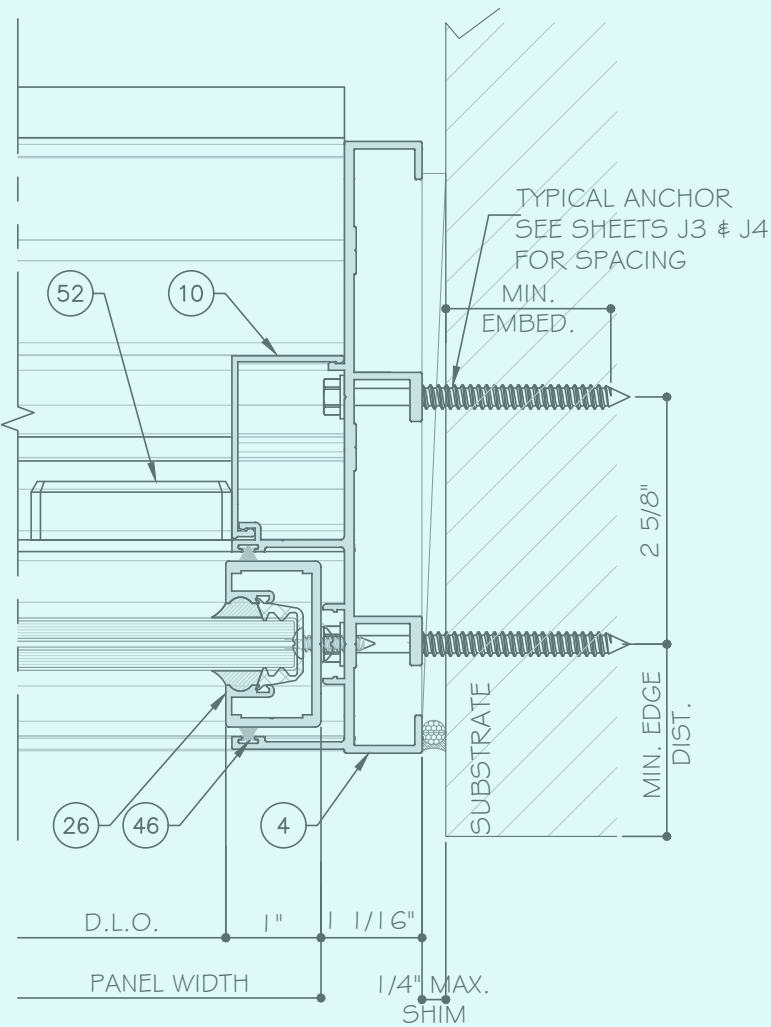
THREE (3) TRACK DOOR DETAILS



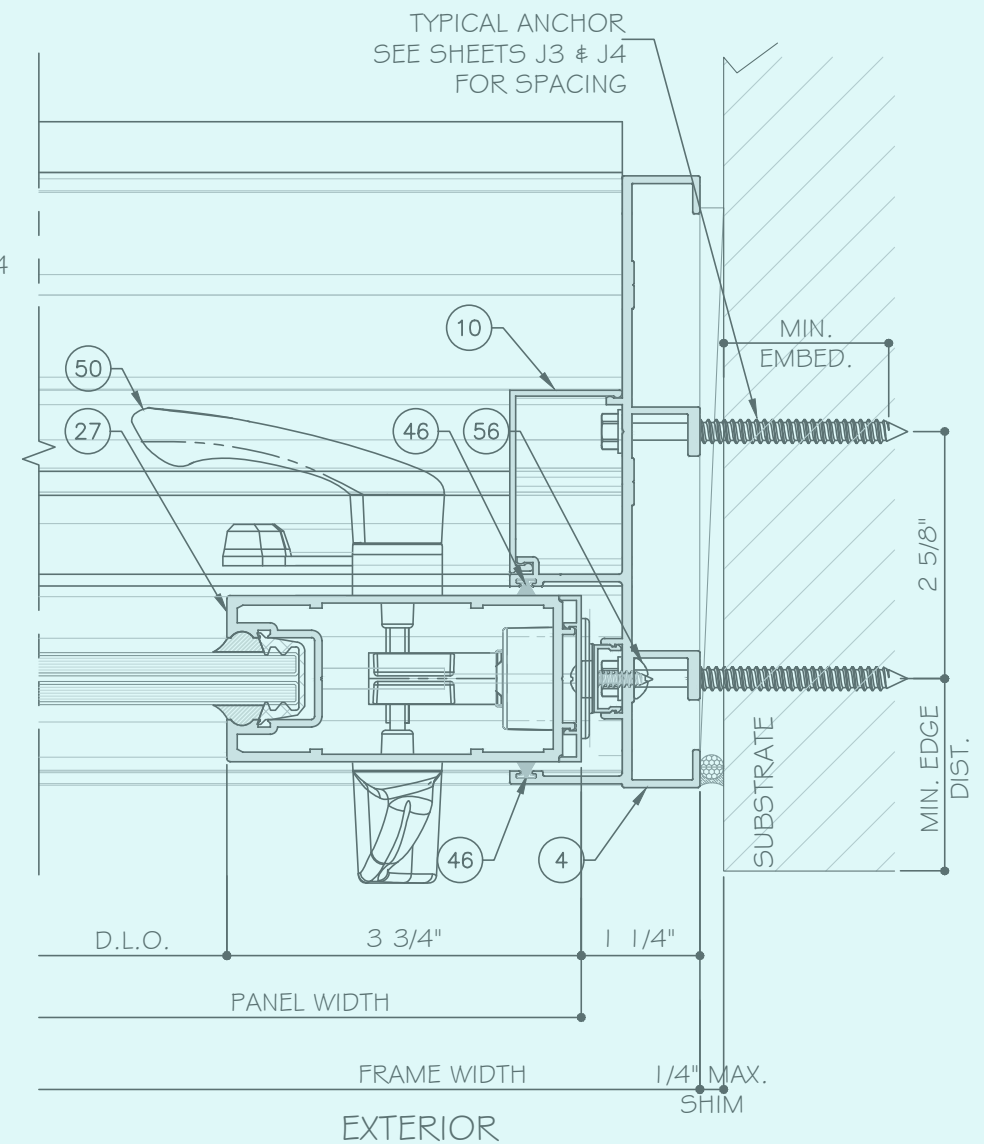
|                                                                                                                                                                            |            |          |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-------------|
| <b>MCY ENGINEERING, INC.</b><br>GLAZING CONSULTANTS<br>12781 MIRAMAR PARKWAY #301<br>MIRAMAR, FL 33027<br>P: 305.271.0117<br>www.MCYEngineering.com mcy@mcyengineering.com |            |          |             |
| <b>ES-SGD2020 SLIDING GLASS DOOR (LMI &amp; SMI)</b>                                                                                                                       |            |          |             |
| <b>ES WINDOWS, INC.</b><br>10653 NE Quaybridge Ct.<br>Miami, FL 33138<br>TEL. (305) 624-7775                                                                               |            |          |             |
| Rev. No.                                                                                                                                                                   | Date       | Drawn By | Description |
| 1                                                                                                                                                                          | 12.04.2023 | James    | REVISION    |
| Drawn Date                                                                                                                                                                 |            | Scale    |             |
| 12.04.2023                                                                                                                                                                 |            |          |             |
| DRAWING NO.                                                                                                                                                                |            |          |             |
| AD16-29                                                                                                                                                                    |            |          |             |
| D8                                                                                                                                                                         |            |          |             |
| Sheet No.                                                                                                                                                                  |            | 43 OF 59 |             |



22  
D9  
DETAIL



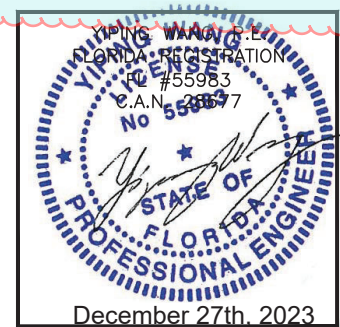
23  
D9  
DETAIL



24  
D9  
DETAIL

LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.

### THREE (3) TRACK DOOR DETAILS



ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

| No. | Rev. | Date       | Drawn By | Description |
|-----|------|------------|----------|-------------|
| 1   |      | 12.04.2023 | James    | REVISION    |

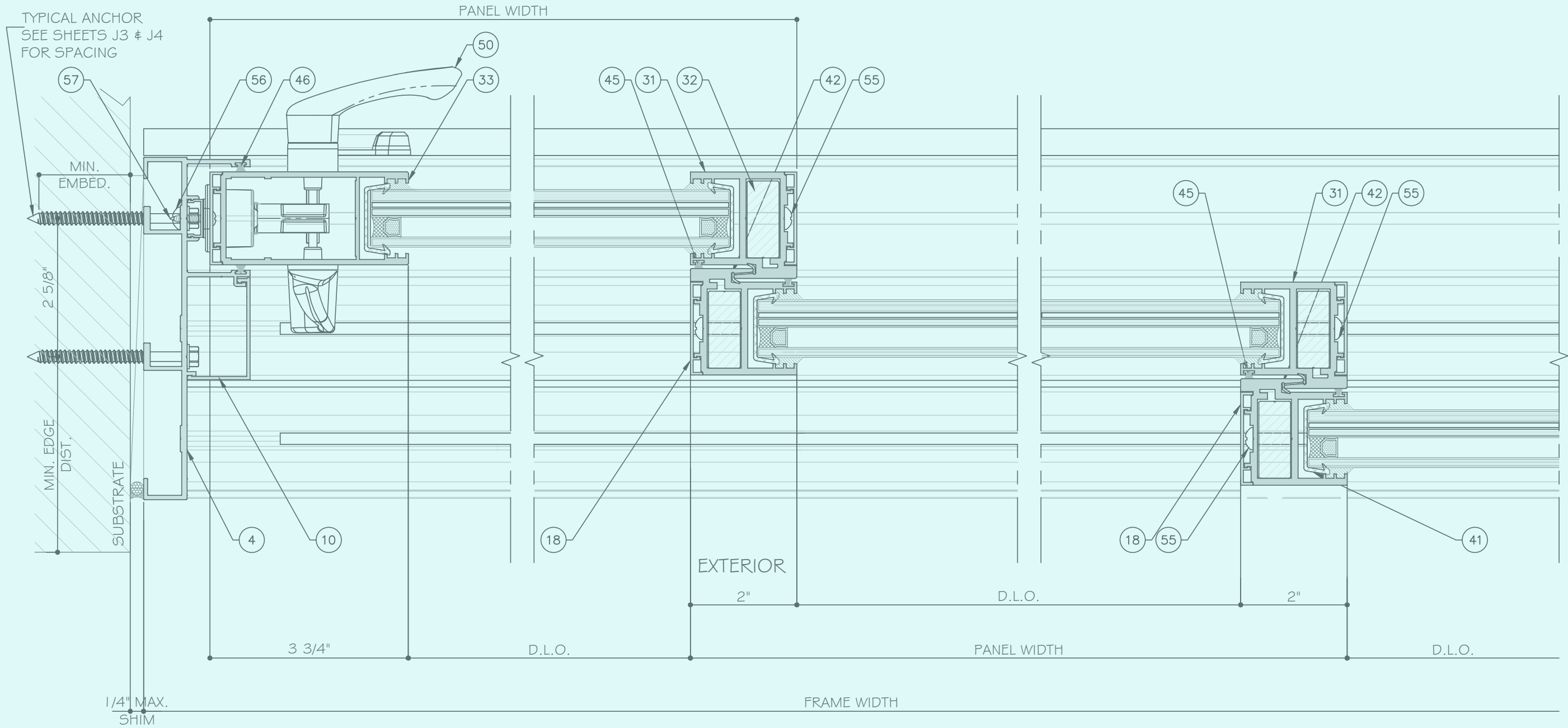
Drawn Date: 12.04.2023

Scale:

DRAWING NO. AD16-29

D9

Sheet No. 44 OF 59



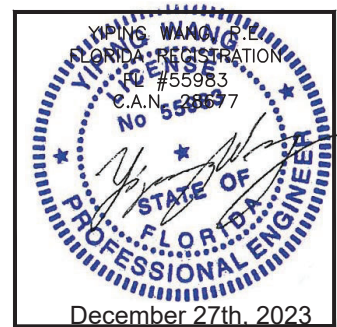
25  
DIO  
DETAIL

26  
DIO  
DETAIL

27  
DIO  
DETAIL

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.  
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.  
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR  
OPTION 2.

### THREE (3) TRACK DOOR DETAILS



ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

MCY ENGINEERING, INC.

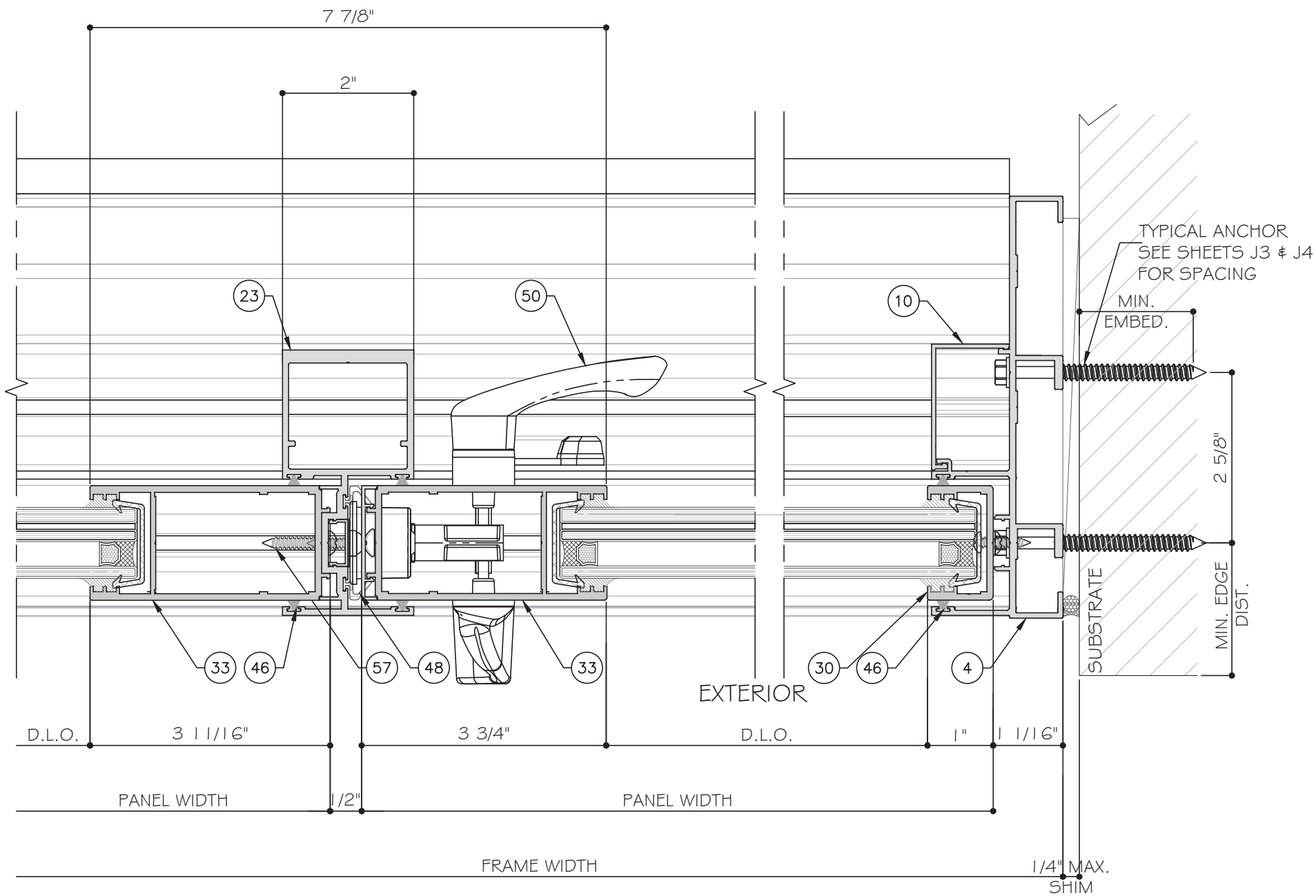
GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | </ |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|

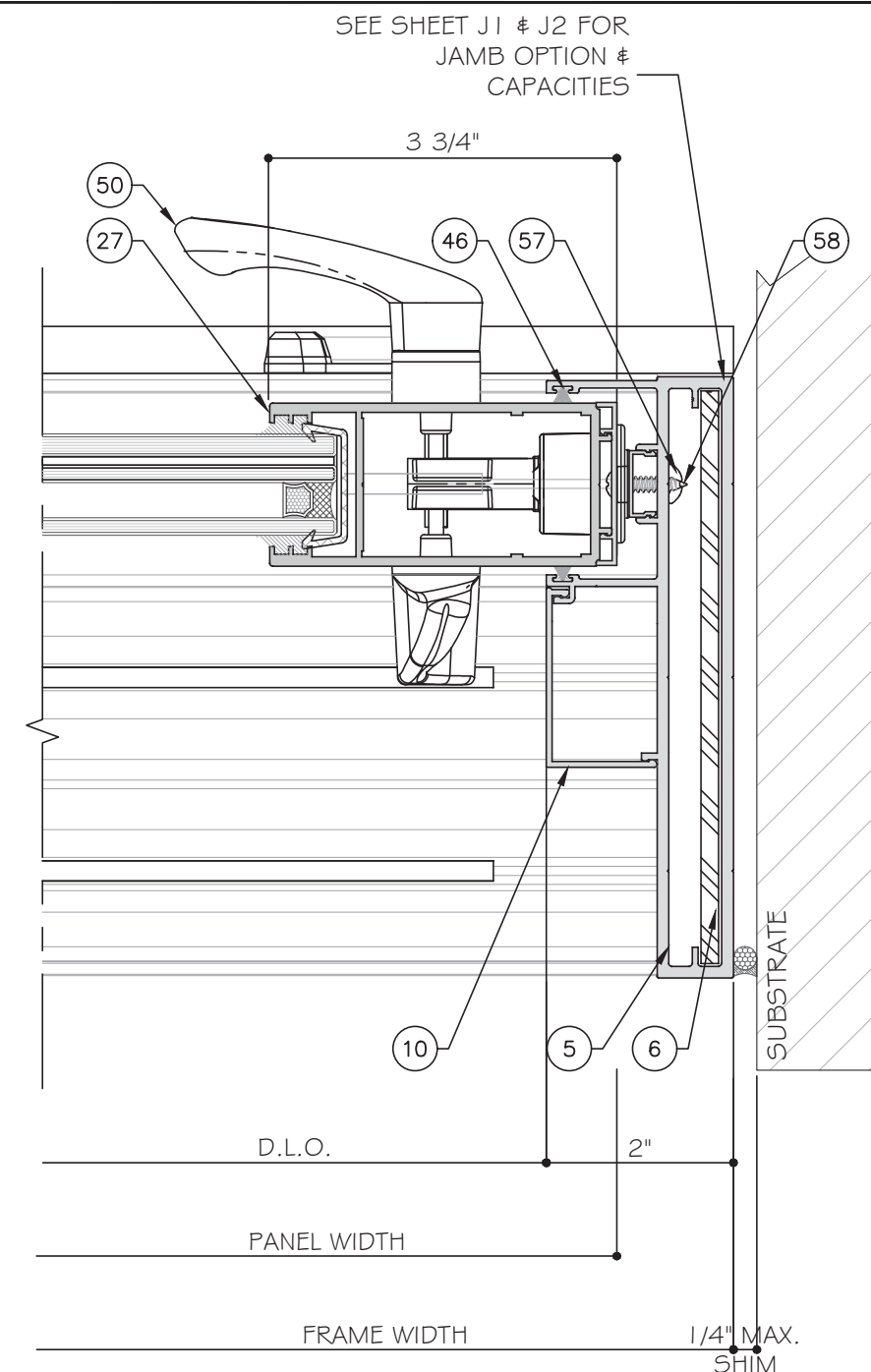


28  
D11  
DETAIL

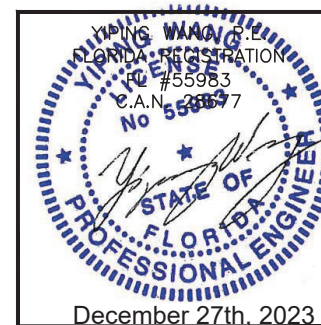
29  
D11  
DETAIL

LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.

### THREE (3) TRACK DOOR DETAILS



### FREESTANDING JAMB FOR 3 TRACKS OPTION



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

**ES WINDOWS, INC.**  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

| ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI) |            |          |             |
|-------------------------------------------|------------|----------|-------------|
| Rev. No.                                  | Date       | Drawn By | Description |
| 1                                         | 12.04.2023 | James    |             |

Drawn Date  
12.04.2023

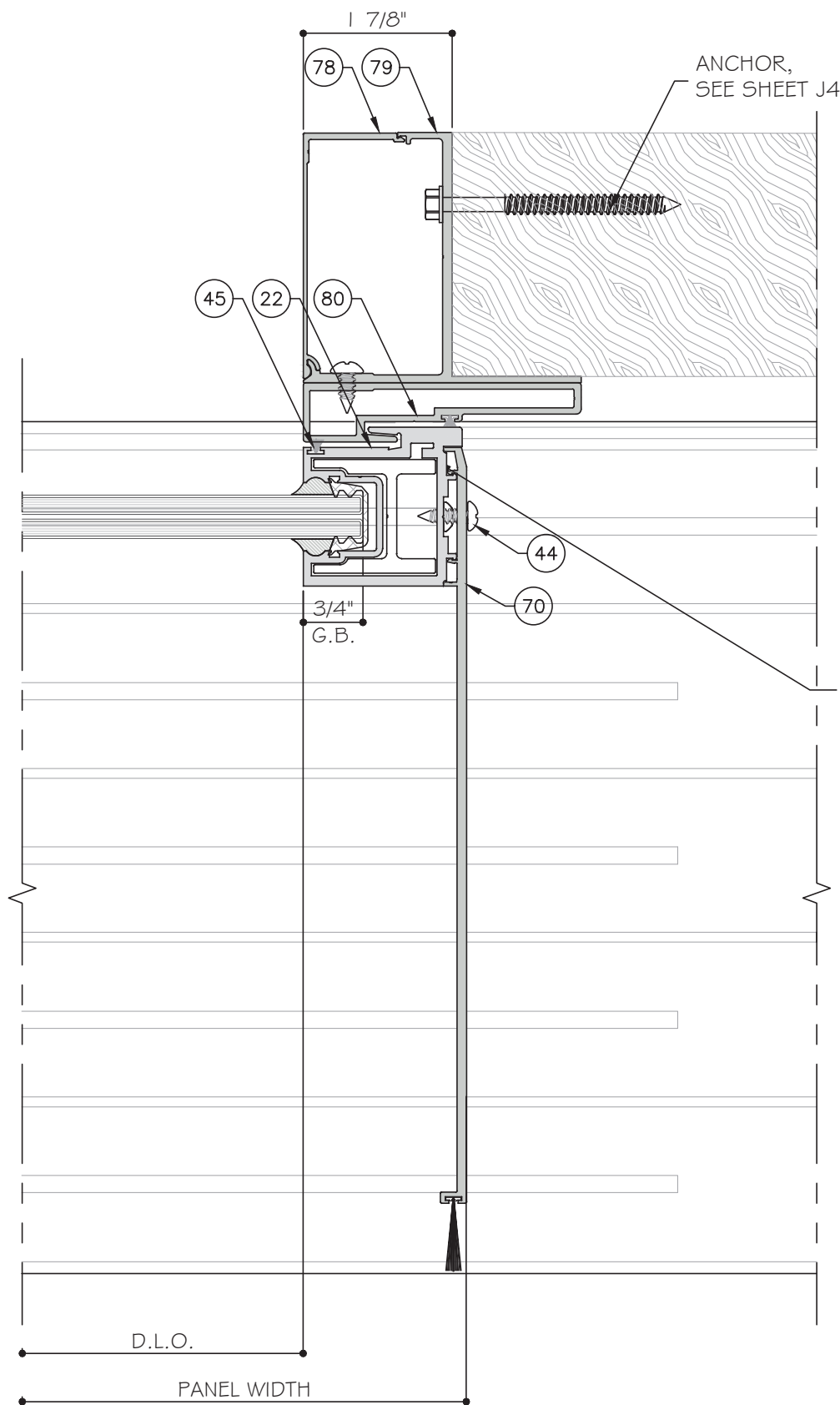
DRAWING NO.  
**AD16-29**

Sheet No.  
**46 OF 59**

Scale

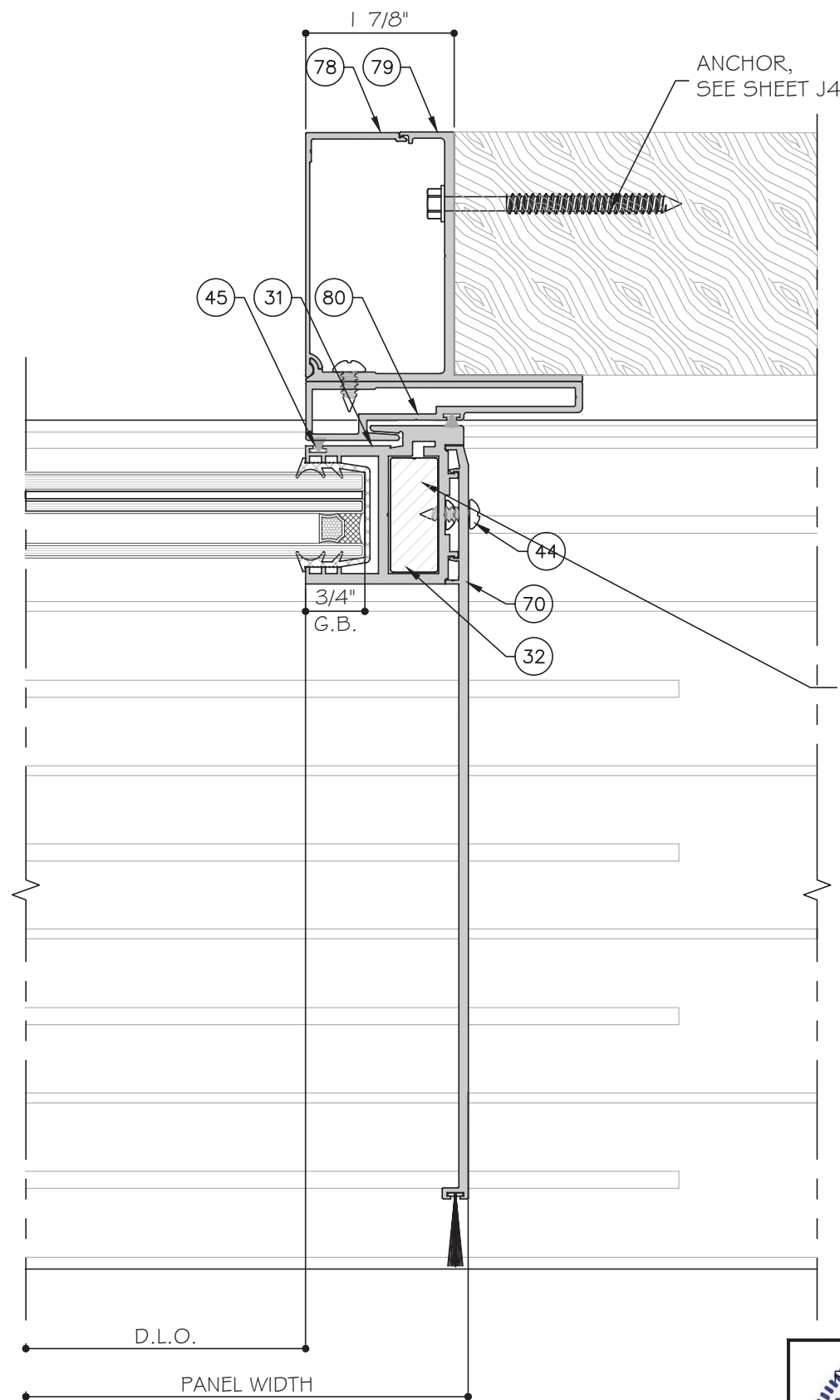
**D11**



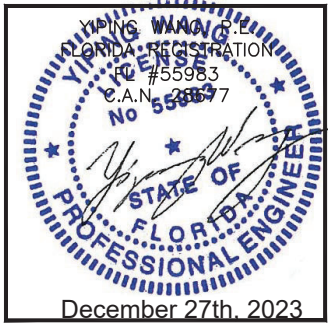


30A  
D12A

POCKET DETAIL



31A  
D12A



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

M

C

Y

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

**ES WINDOWS, INC.**  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

| Rev. No. | Date       | Drawn By | Description |
|----------|------------|----------|-------------|
| 1        | 12.04.2023 | James    |             |

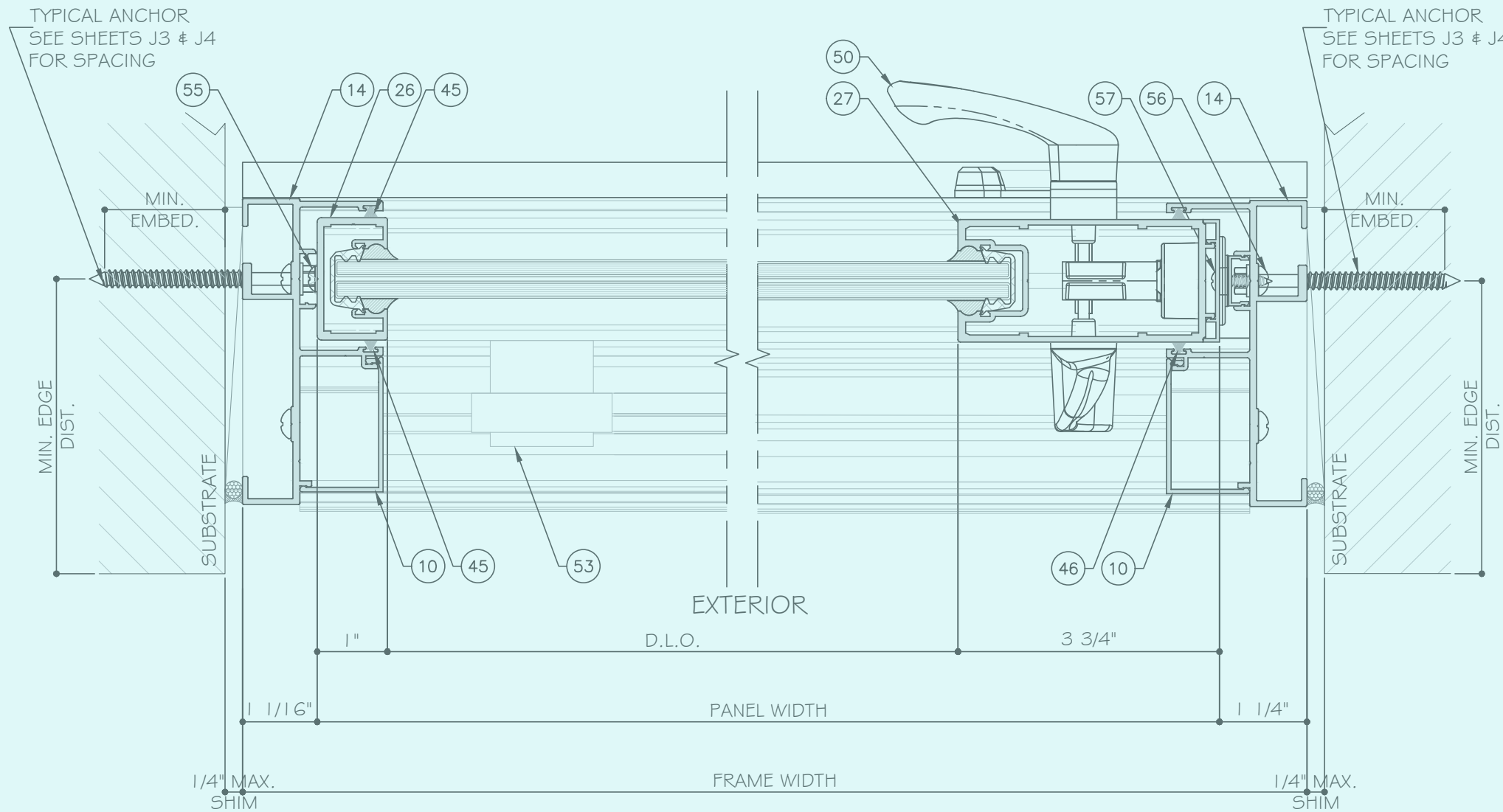
Drawn Date  
12.04.2023

Scale

DRAWING NO.  
AD16-29

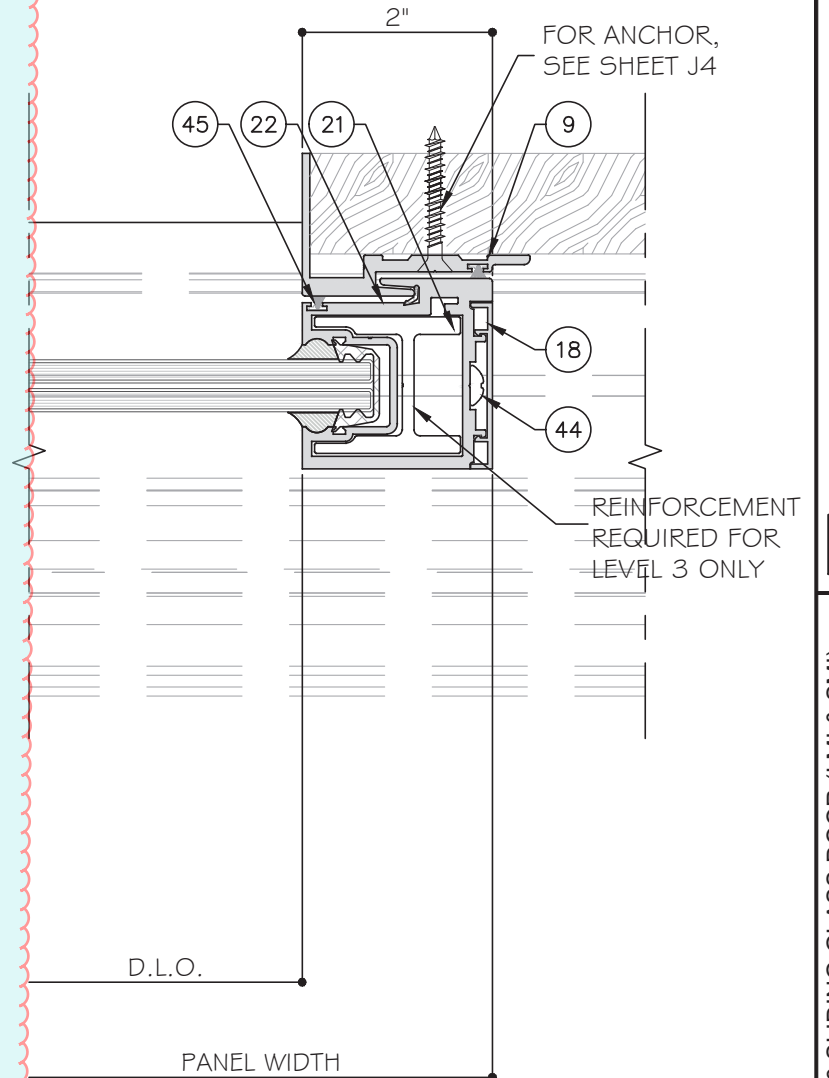
D12A

Sheet No.  
48 OF 59



32 DETAIL  
D13

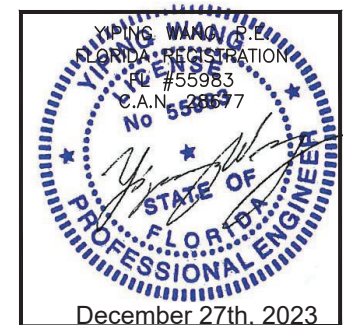
33 DETAIL  
D13



34 DETAIL  
D13

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.  
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.  
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR  
OPTION 2.

## TWO (2) TRACK DOOR DETAILS



| Rev. No. | Date       | Drawn By | Description |
|----------|------------|----------|-------------|
| 1        | 12.04.2023 | James    | REVISION    |
| 2        |            |          |             |
| 3        |            |          |             |
| 4        |            |          |             |
| 5        |            |          |             |
| 6        |            |          |             |
| 7        |            |          |             |
| 8        |            |          |             |
| 9        |            |          |             |
| 10       |            |          |             |
| 11       |            |          |             |
| 12       |            |          |             |
| 13       |            |          |             |
| 14       |            |          |             |
| 15       |            |          |             |
| 16       |            |          |             |
| 17       |            |          |             |
| 18       |            |          |             |
| 19       |            |          |             |
| 20       |            |          |             |
| 21       |            |          |             |
| 22       |            |          |             |
| 23       |            |          |             |
| 24       |            |          |             |
| 25       |            |          |             |
| 26       |            |          |             |
| 27       |            |          |             |
| 28       |            |          |             |
| 29       |            |          |             |
| 30       |            |          |             |
| 31       |            |          |             |
| 32       |            |          |             |
| 33       |            |          |             |
| 34       |            |          |             |
| 35       |            |          |             |
| 36       |            |          |             |
| 37       |            |          |             |
| 38       |            |          |             |
| 39       |            |          |             |
| 40       |            |          |             |
| 41       |            |          |             |
| 42       |            |          |             |
| 43       |            |          |             |
| 44       |            |          |             |
| 45       |            |          |             |
| 46       |            |          |             |
| 47       |            |          |             |
| 48       |            |          |             |
| 49       |            |          |             |
| 50       |            |          |             |
| 51       |            |          |             |
| 52       |            |          |             |
| 53       |            |          |             |
| 54       |            |          |             |
| 55       |            |          |             |
| 56       |            |          |             |
| 57       |            |          |             |
| 58       |            |          |             |
| 59       |            |          |             |
| 60       |            |          |             |
| 61       |            |          |             |
| 62       |            |          |             |
| 63       |            |          |             |
| 64       |            |          |             |
| 65       |            |          |             |
| 66       |            |          |             |
| 67       |            |          |             |
| 68       |            |          |             |
| 69       |            |          |             |
| 70       |            |          |             |
| 71       |            |          |             |
| 72       |            |          |             |
| 73       |            |          |             |
| 74       |            |          |             |
| 75       |            |          |             |
| 76       |            |          |             |
| 77       |            |          |             |
| 78       |            |          |             |
| 79       |            |          |             |
| 80       |            |          |             |
| 81       |            |          |             |
| 82       |            |          |             |
| 83       |            |          |             |
| 84       |            |          |             |
| 85       |            |          |             |
| 86       |            |          |             |
| 87       |            |          |             |
| 88       |            |          |             |
| 89       |            |          |             |
| 90       |            |          |             |
| 91       |            |          |             |
| 92       |            |          |             |
| 93       |            |          |             |
| 94       |            |          |             |
| 95       |            |          |             |
| 96       |            |          |             |
| 97       |            |          |             |
| 98       |            |          |             |
| 99       |            |          |             |
| 100      |            |          |             |

Drawn Date  
12.04.2023

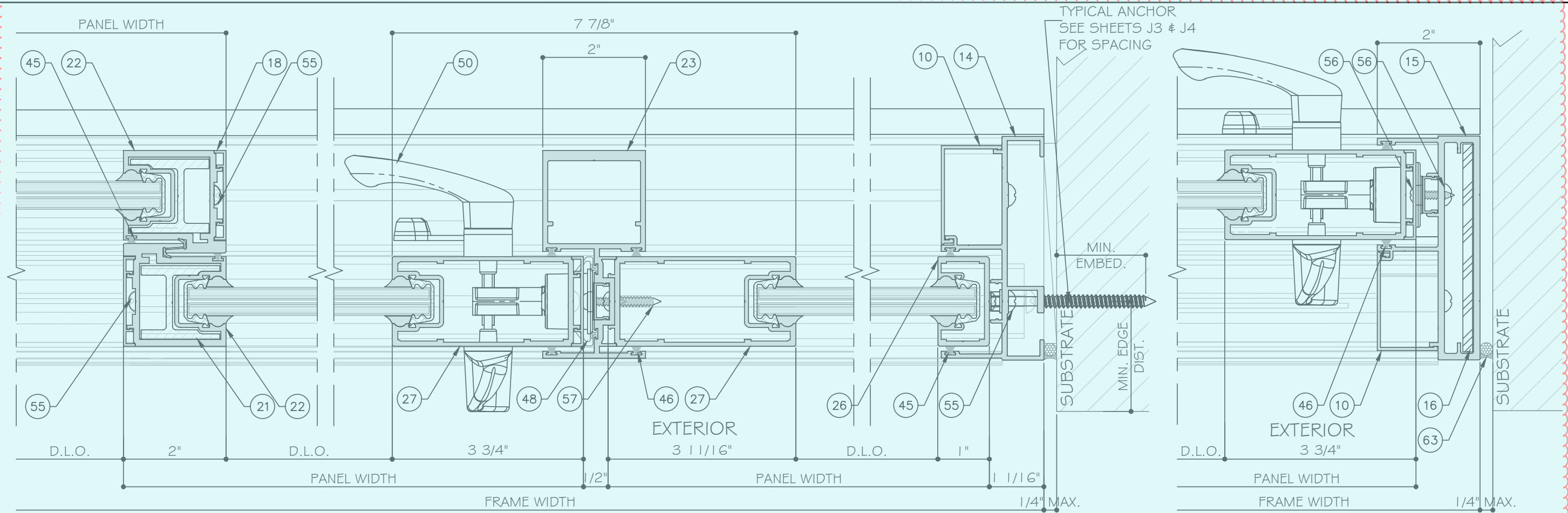
Scale

DRAWING NO.

AD16-29

D13

Sheet No.  
49 OF 59

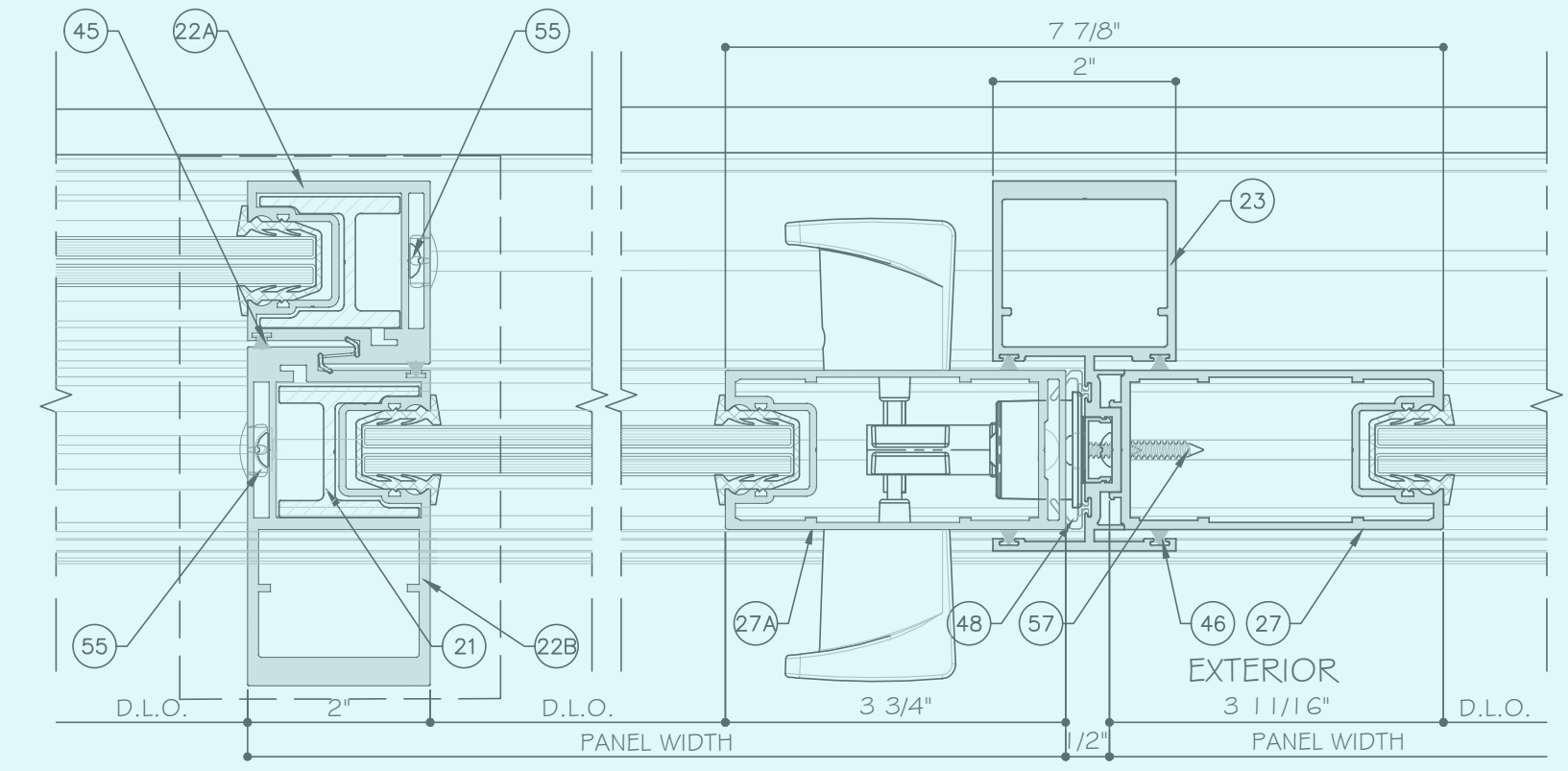


35 DETAIL  
D14

36 DETAIL  
D14

37 DETAIL  
D14

FREESTANDING JAMB OPTION



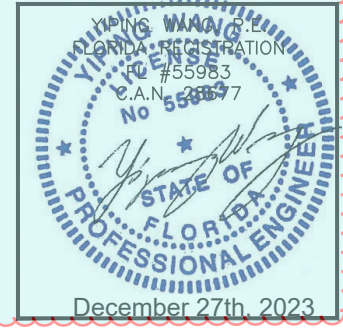
35 DETAIL  
D14 OPTION

36 DETAIL  
D14 OPTION

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.

LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.

TWO (2) TRACK DOOR DETAILS



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

**ES WINDOWS, INC.**  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL. (305) 624-7775

| Rev. | Date       | Drawn By | Description |
|------|------------|----------|-------------|
| 1    | 12.04.2023 | James    | REVISION    |

Drawn Date: 12.04.2023

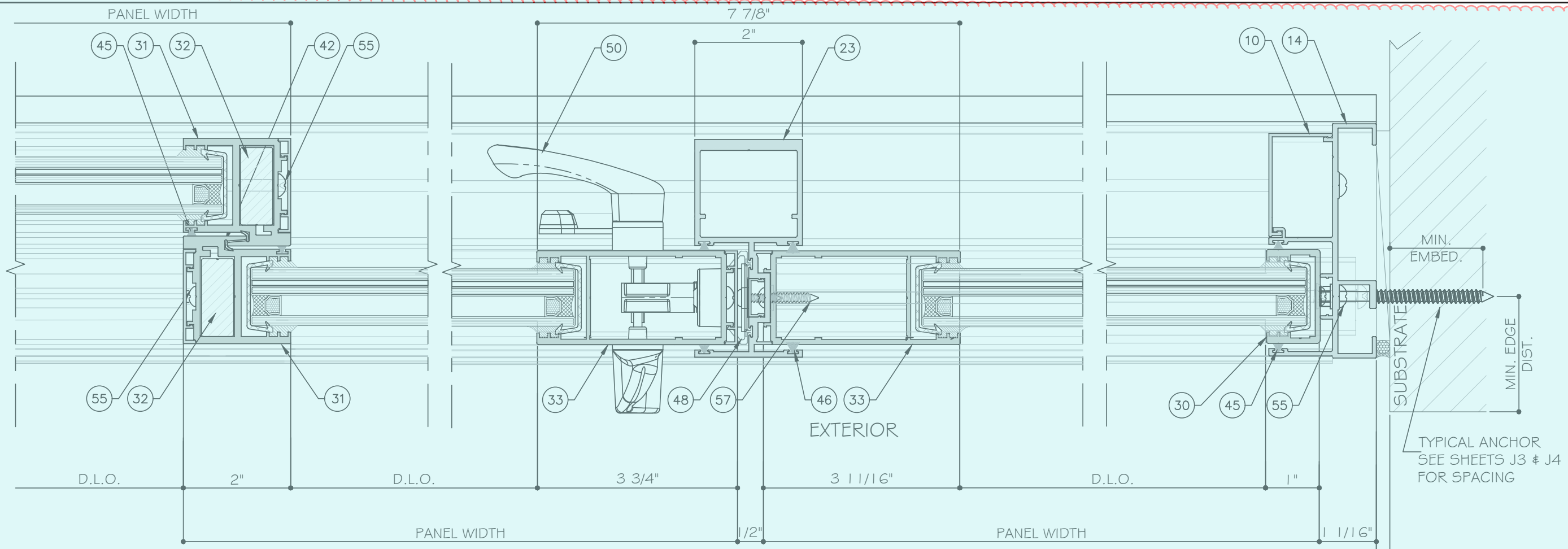
Scale:

DRAWING NO.  
**AD16-29**

Sheet No.  
**D14**

50 OF 59



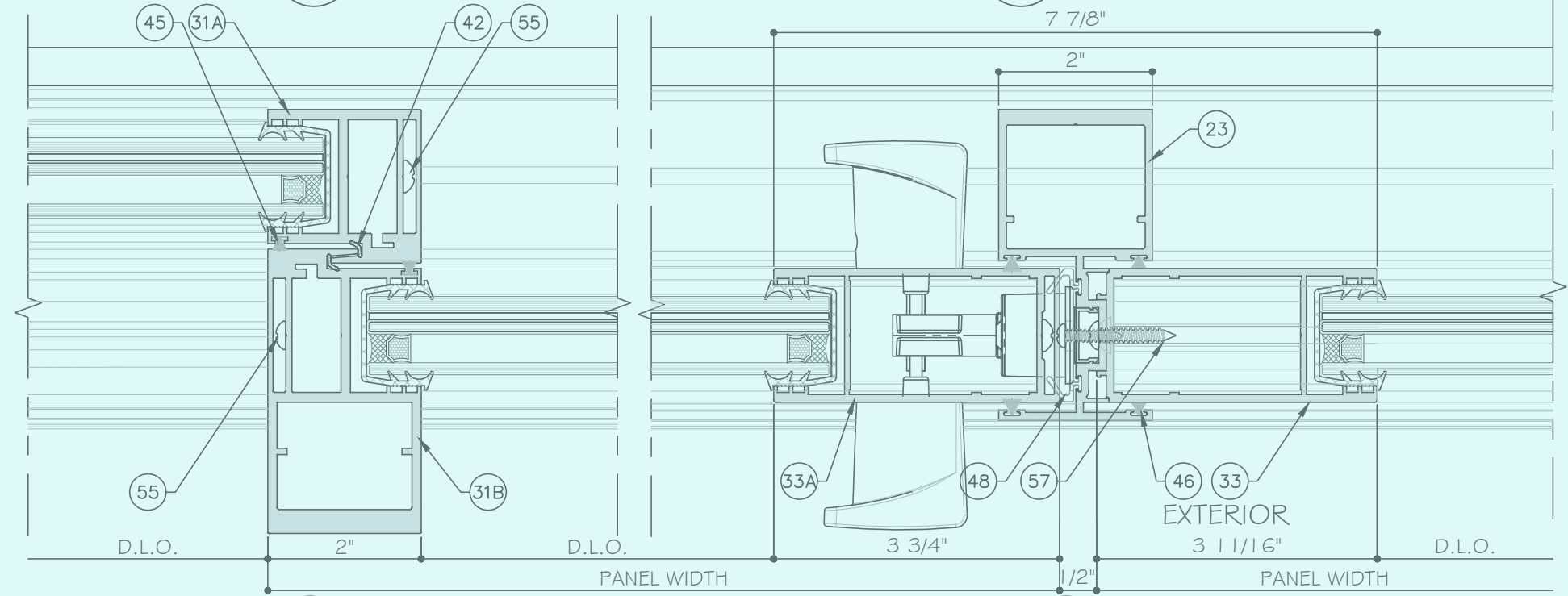


MIN. EMBED.  
MIN. EDGE DIST.  
SUBSTRATE  
TYPICAL ANCHOR  
SEE SHEETS J3 & J4  
FOR SPACING

41  
D16  
DETAIL

42  
D16  
DETAIL

43  
D16  
DETAIL

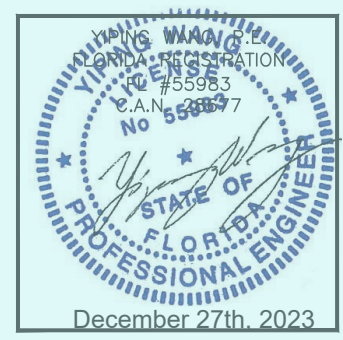


41  
D16  
DETAIL  
OPTION

42  
D16  
DETAIL  
OPTION

STANDARD INTERLOCK  
(LEVEL 1 OPTION 1)  
SHOWN. SEE SHEET K1 FOR  
LEVEL 2 AND 3  
REINFORCEMENT.  
  
LOCK STILE OPTION 1  
SHOWN. SEE SHEET E5  
FOR OPTION 2.

TWO (2) TRACK DOOR DETAILS



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

**ES WINDOWS, INC.**  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL: (305) 624-7775

| ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI) |            |          |             |
|-------------------------------------------|------------|----------|-------------|
| Rev.                                      | Date       | Drawn By | Description |
| 1                                         | 12.04.2023 | James    |             |

|                                     |       |
|-------------------------------------|-------|
| Drawn Date<br>12.04.2023            | Scale |
| DRAWING NO.<br><b>AD16-29</b>       |       |
| Sheet No.<br><b>D16</b><br>52 OF 59 |       |

1 HEAD (3 TRACK)  
ES-SGD2020-001 6063-T6

2 SILL (3 TRACK)  
ES-SGD2020-002 6063-T6

3 FRAME SILL COVER (3 TRACKS)  
ES-SGD2020-003 6063-T6

4 JAMB (3 TRACK)  
ES-SGD2020-004 6063-T6

5 UNANCHORED JAMB (3 TRACK)  
ES-SGD2020-005 6063-T6

6 UNANCHORED JAMB REINF.  
FOR 3 TRACK  
ES-SGD2020-006 6005-T5

7 SILL RAISER 67PSF  
ES-SGD2020-007 6063-T6

8 STANDARD SILL RAISER 53PSF  
ES-SGD2020-008 6063-T6

9 POCKET JAMB  
ES-SGD2020-009 6063-T6

10 JAMB SCREW COVER  
ES-SGD2020-010 6063-T6

14 JAMB (2 TRACK)  
ES-SGD2020-014 6063-T6

11 HEAD (2 TRACK)  
ES-SGD2020-011 6063-T6

12 SILL (2 TRACK)  
ES-SGD2020-012 6063-T6

13 FRAME SILL COVER (2 TRACKS)  
ES-SGD2020-013 6063-T6

36 FRAME SILL COVER (4 TRACKS)  
ES-SGD2020-013 6063-T6

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027  
P: 305.271.0117  
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

**ES WINDOWS, INC.**  
10653 NE Quaybridge Ct.  
Miami, FL 33138  
TEL: (305) 624-7775

| Rev | Date | Drawn By | Description |
|-----|------|----------|-------------|
|     |      |          |             |
|     |      |          |             |
|     |      |          |             |

Drawn Date  
12.04.2023

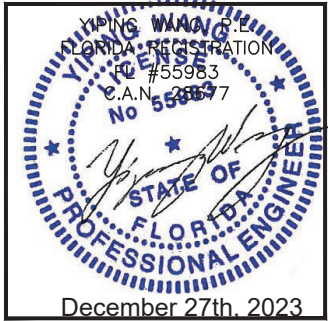
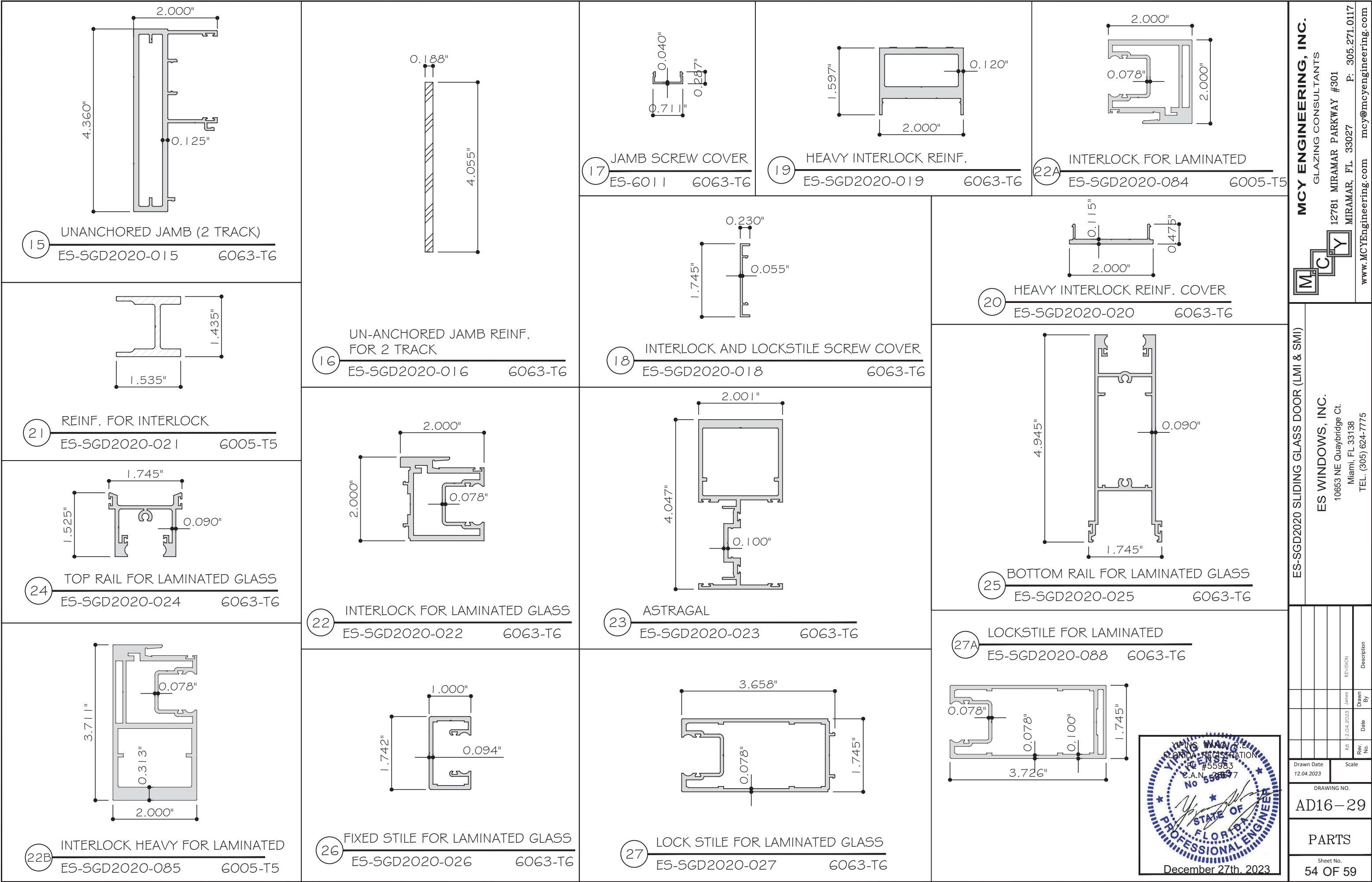
Scale

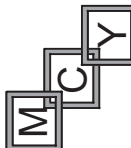
DRAWING NO.  
AD16-29

PARTS

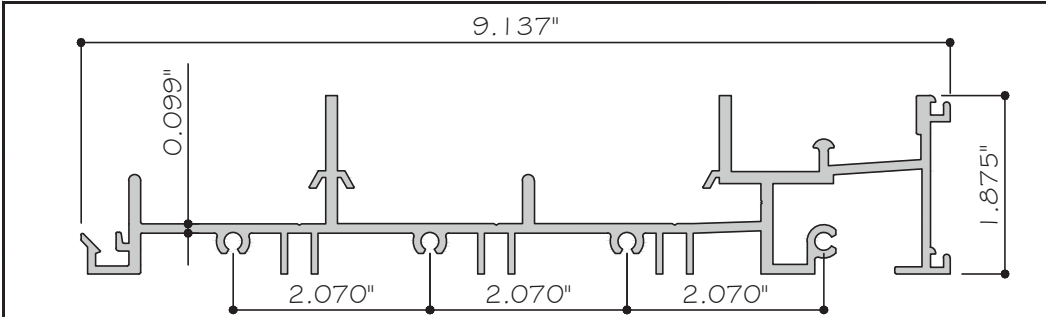
Sheet No.  
53 OF 59

YONG WANG  
FLORIDA REGISTRATION  
No. 55983  
C.A.N. 55983  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
December 27th, 2023

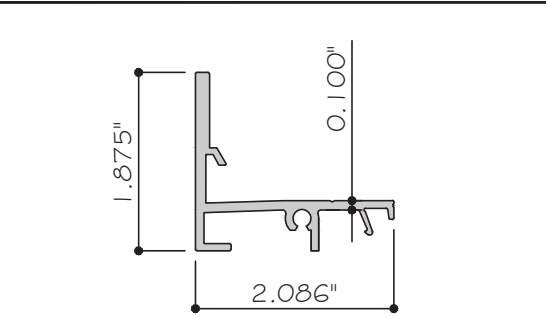


|                                                                                                                                                                                                                                                                |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|  <b>MCY ENGINEERING, INC.</b><br>GLAZING CONSULTANTS<br>12781 MIRAMAR PARKWAY #301<br>MIRAMAR, FL 33027<br>P: 305.271.0117<br>www.MCYEngineering.com mcy@mcyengineering.com |             |
| ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)                                                                                                                                                                                                                      |             |
| ES WINDOWS, INC.<br>10653 NE Quaybridge Ct.<br>Miami, FL 33138<br>TEL. (305) 624-7775                                                                                                                                                                          |             |
| Rev. No.                                                                                                                                                                                                                                                       | Date        |
| Drawn By                                                                                                                                                                                                                                                       | Description |
| Drawn Date: 12.04.2023                                                                                                                                                                                                                                         |             |
| Scale                                                                                                                                                                                                                                                          |             |
| DRAWING NO. AD16-29                                                                                                                                                                                                                                            |             |
| PARTS                                                                                                                                                                                                                                                          |             |
| Sheet No. 54 OF 59                                                                                                                                                                                                                                             |             |

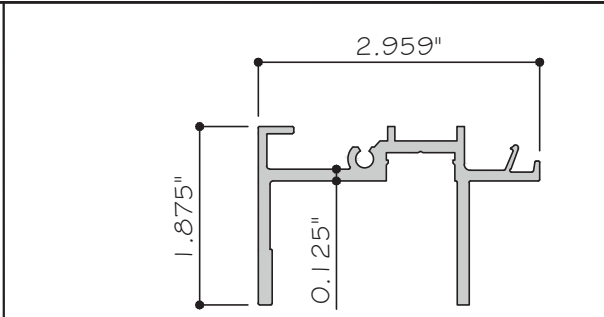




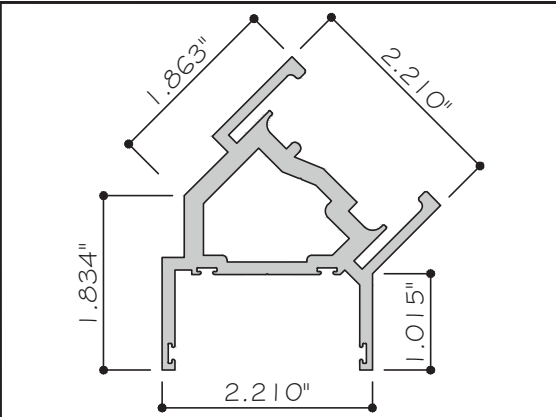
65 FRAME SILL - 5 TRACKS  
ES-SGD2020-055 6063-T6



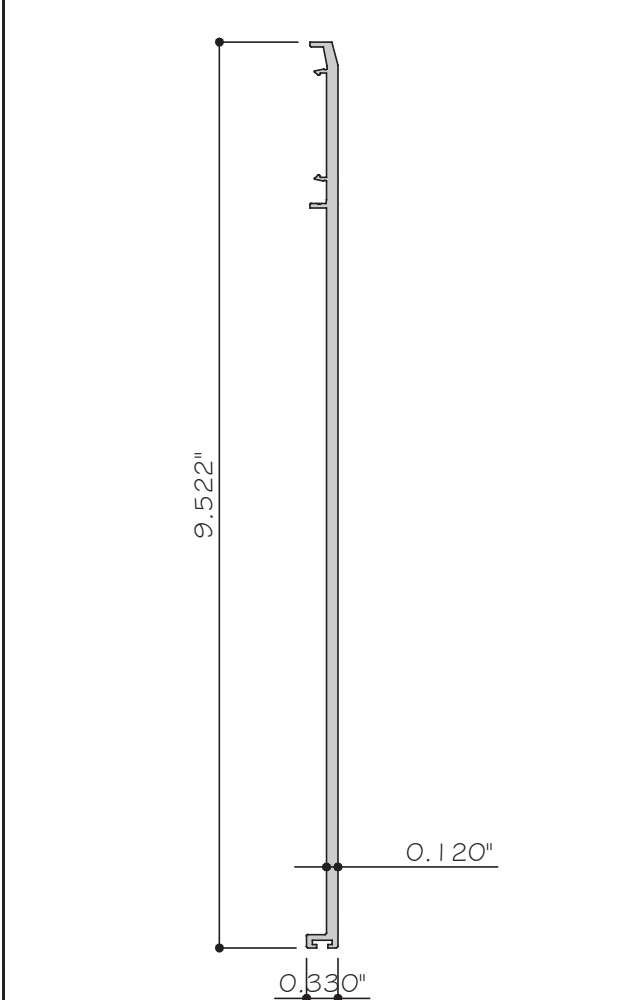
66 FRAME FRONT SILL  
ES-SGD2020-054 6063-T6



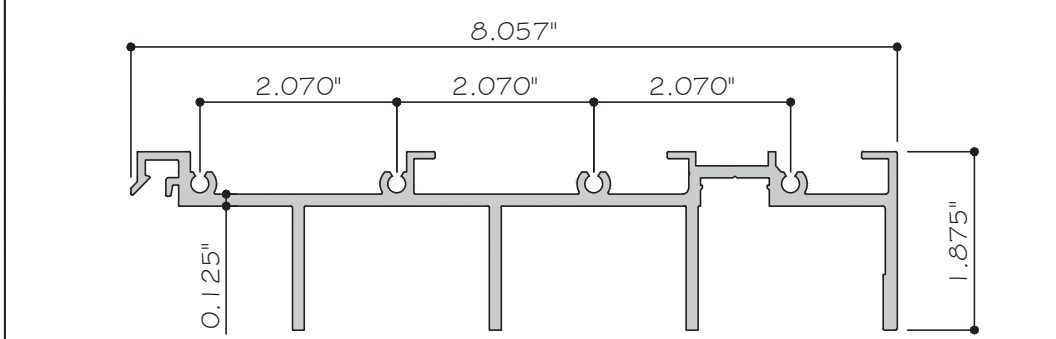
67 FRAME FRONT HEAD  
ES-SGD2020-062 6063-T6



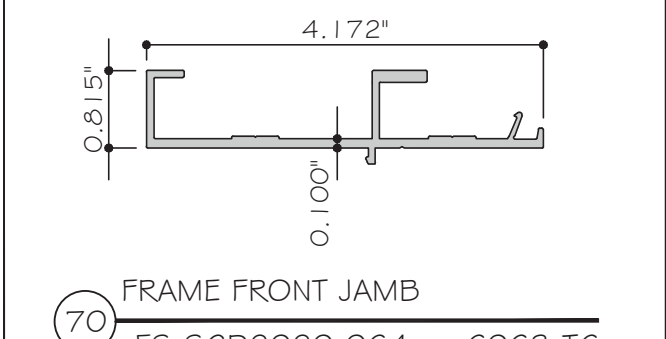
71 FRAME FRONT SILL  
ES-SGD2020-056 6063-T6



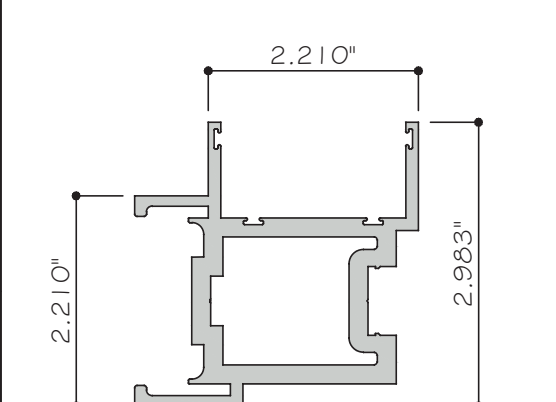
72 POCKET DOOR CLOSER - 5 TRACKS  
ES-SGD2020-061 6063-T6



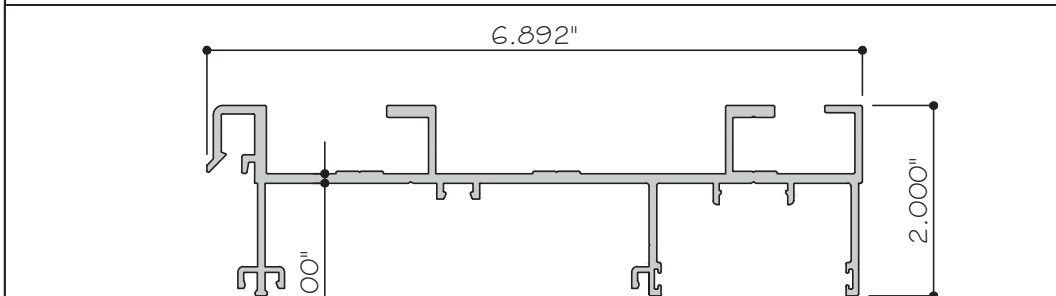
69 FRAME HEAD - 5 TRACKS  
ES-SGD2020-063 6063-T6



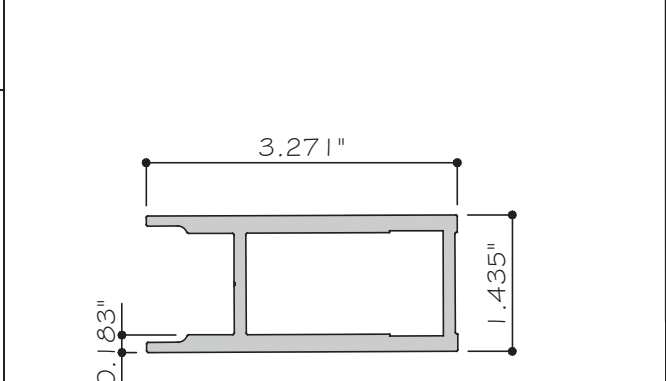
70 FRAME FRONT JAMB  
ES-SGD2020-064 6063-T6



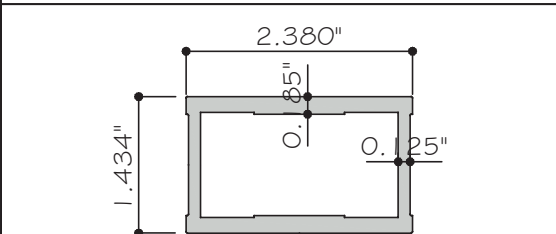
75 FRAME FRONT SILL  
ES-SGD2020-068 6063-T6



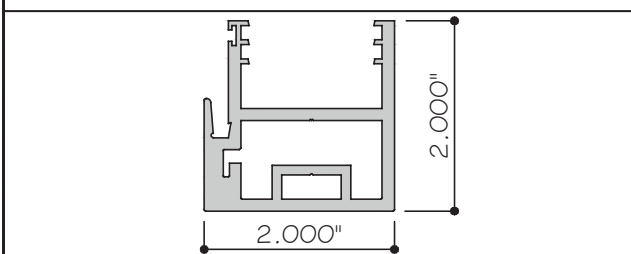
73 JAMB- 5 TRACKS  
ES-SGD2020-065 6063-T6



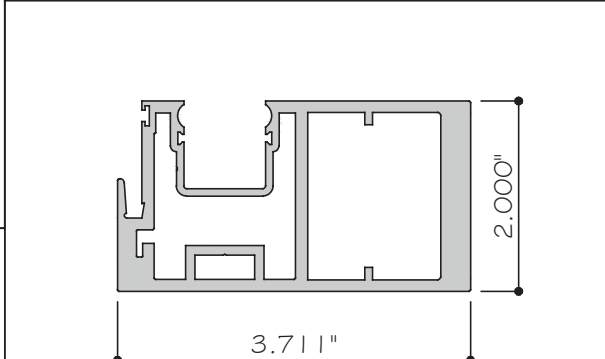
74 REINF. FOR LOCK STILE LAM. GLASS  
ES-SGD2020-071 6063-T6



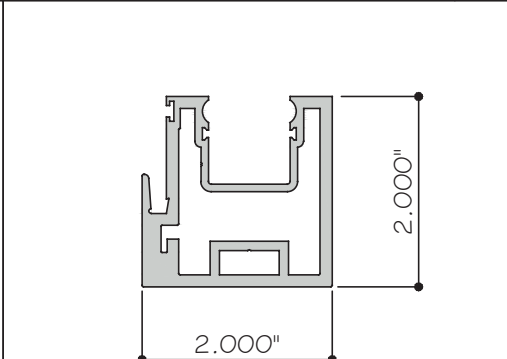
81 REINF. FOR LOCK STILE (INSL-LAM.)  
ES-SGD2020-07X 6063-T6



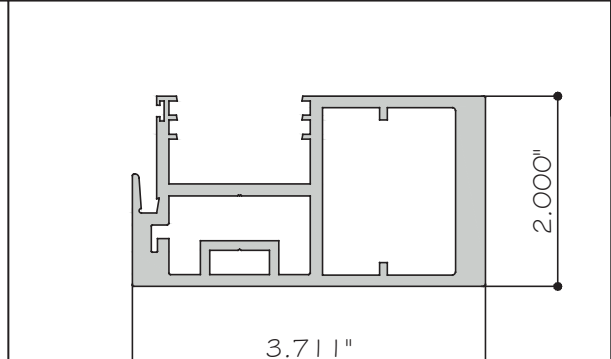
87A INTERLOCK FOR INSULATED LAMINATED GLASS  
ES-SGD2020-087A 6005-T5



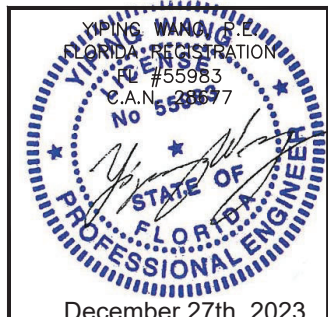
84A INTERLOCK HEAVY FOR LAMINATED GLASS  
ES-SGD2020-084A 6005-T5



85A INTERLOCK FOR LAMINATED GLASS  
ES-SGD2020-085A 6005-T5



86A INTERLOCK HEAVY FOR INSULATED LAMINATED GLASS  
ES-SGD2020-086A 6005-T5



MCY

ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL. (305) 624-7775

| Rev. | No. | Date | Drawn By | Description |
|------|-----|------|----------|-------------|
|      |     |      |          |             |
|      |     |      |          |             |
|      |     |      |          |             |

Drawn Date

12.04.2023

Scale

DRAWING NO.

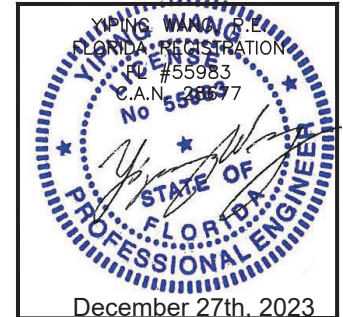
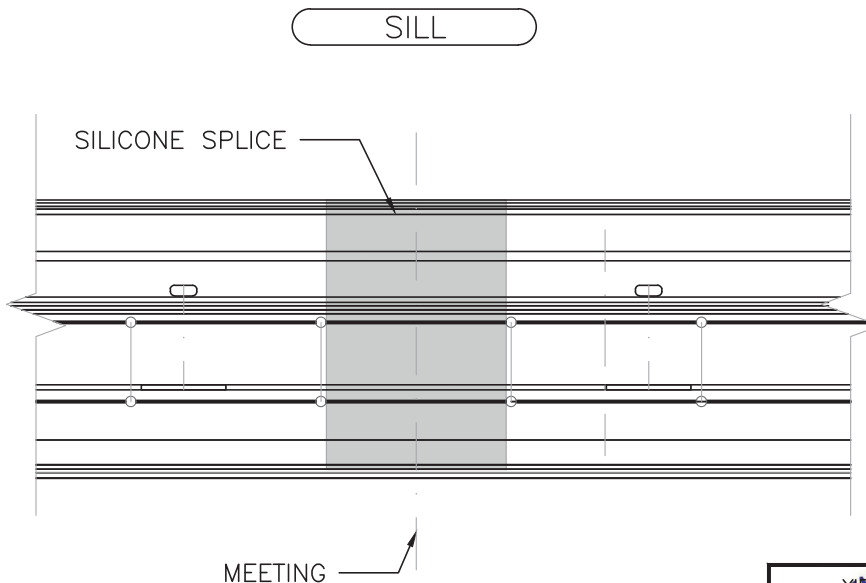
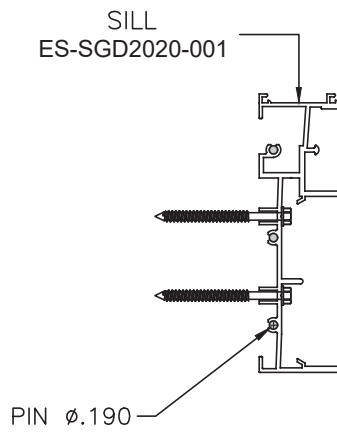
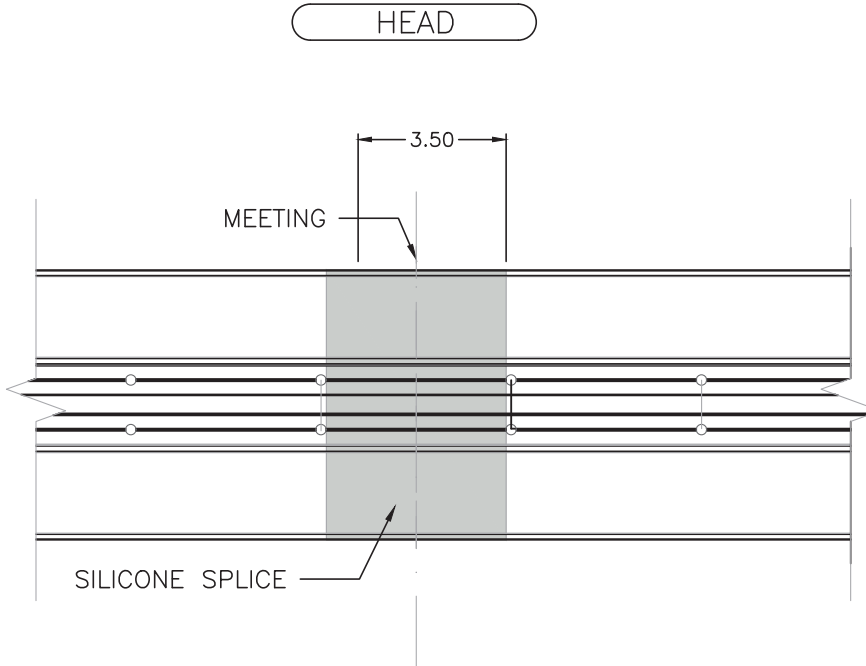
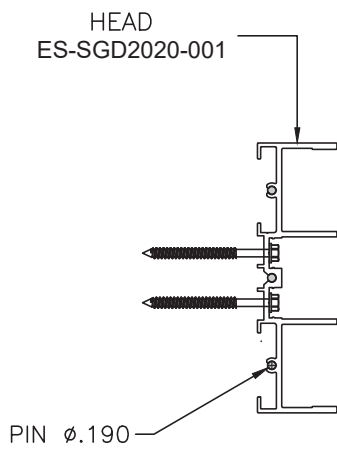
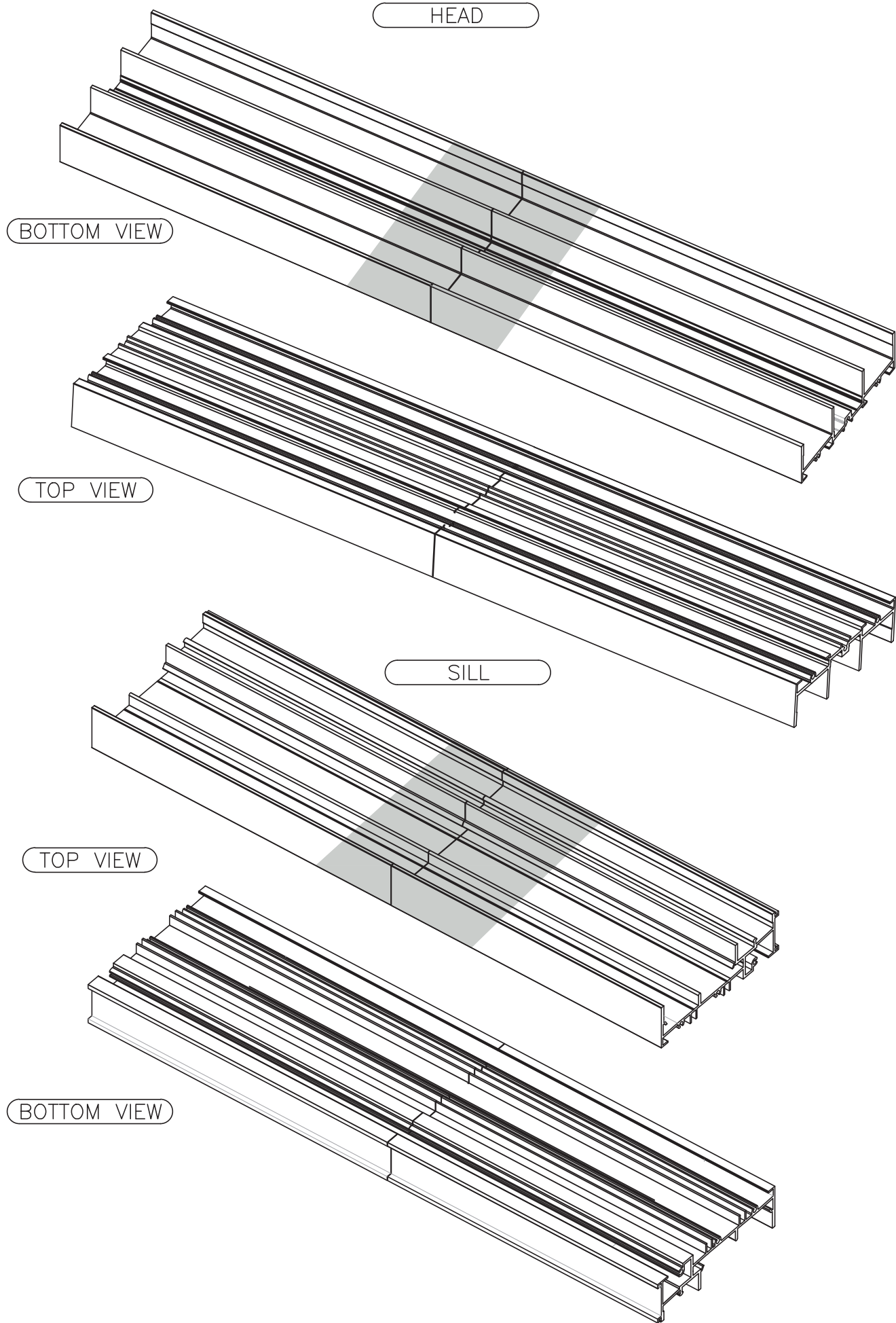
AD16-29

PARTS

Sheet No.

56 OF 59





MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

ES-WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL. (305) 624-7775

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

| Rev. No. | Date       | Drawn By | Description |
|----------|------------|----------|-------------|
| 1        | 12.04.2023 | James    |             |

Drawn Date

12.04.2023

Scale

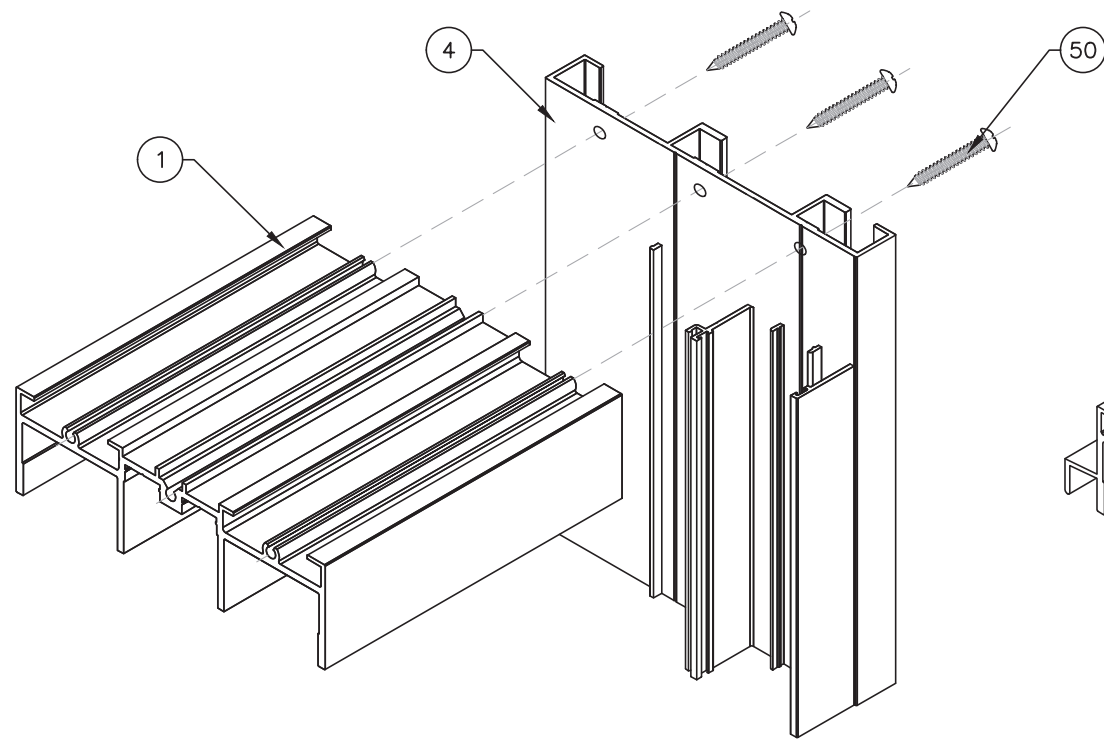
DRAWING NO.

AD16-29

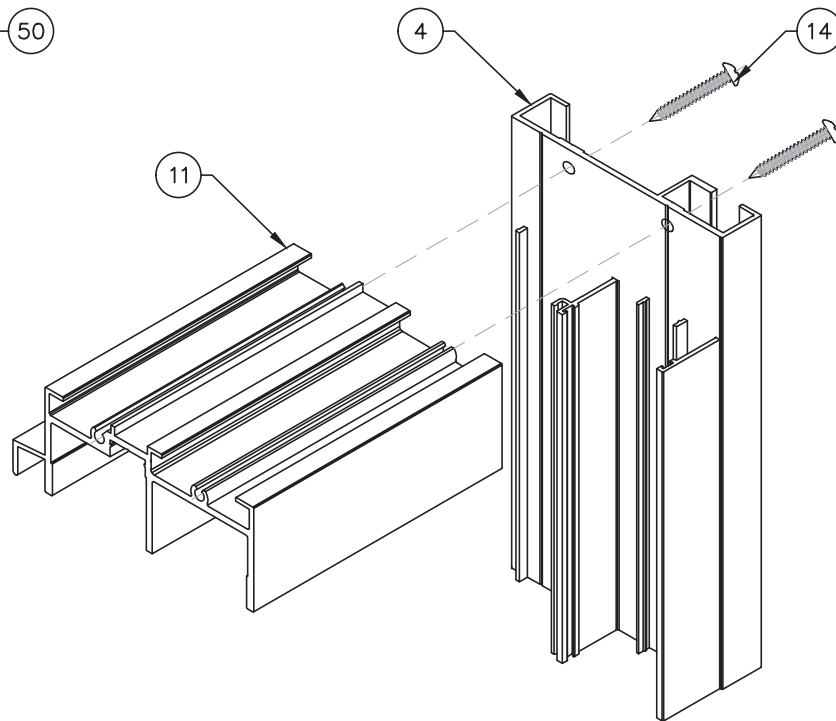
ISO

Sheet No.

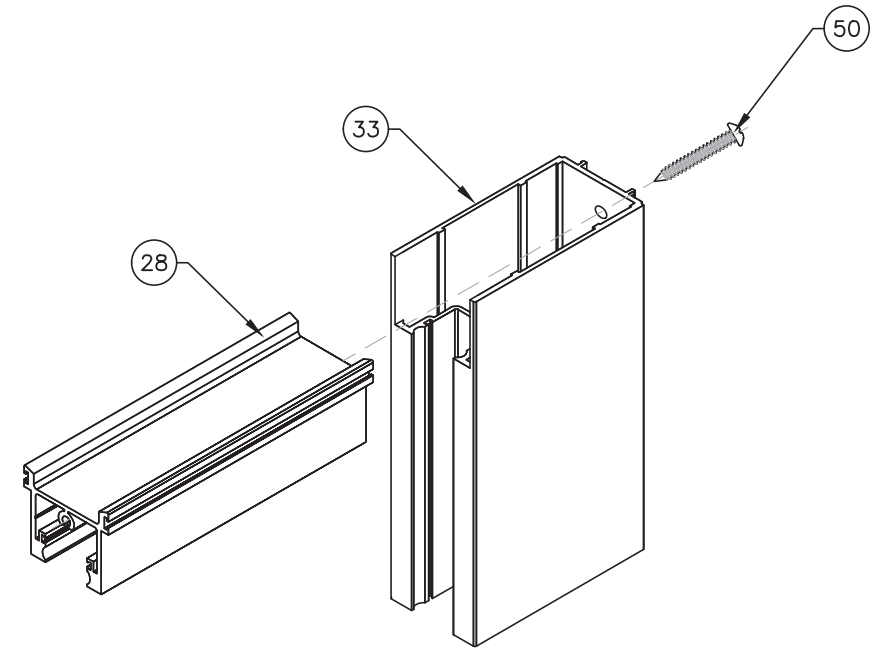
58 OF 59



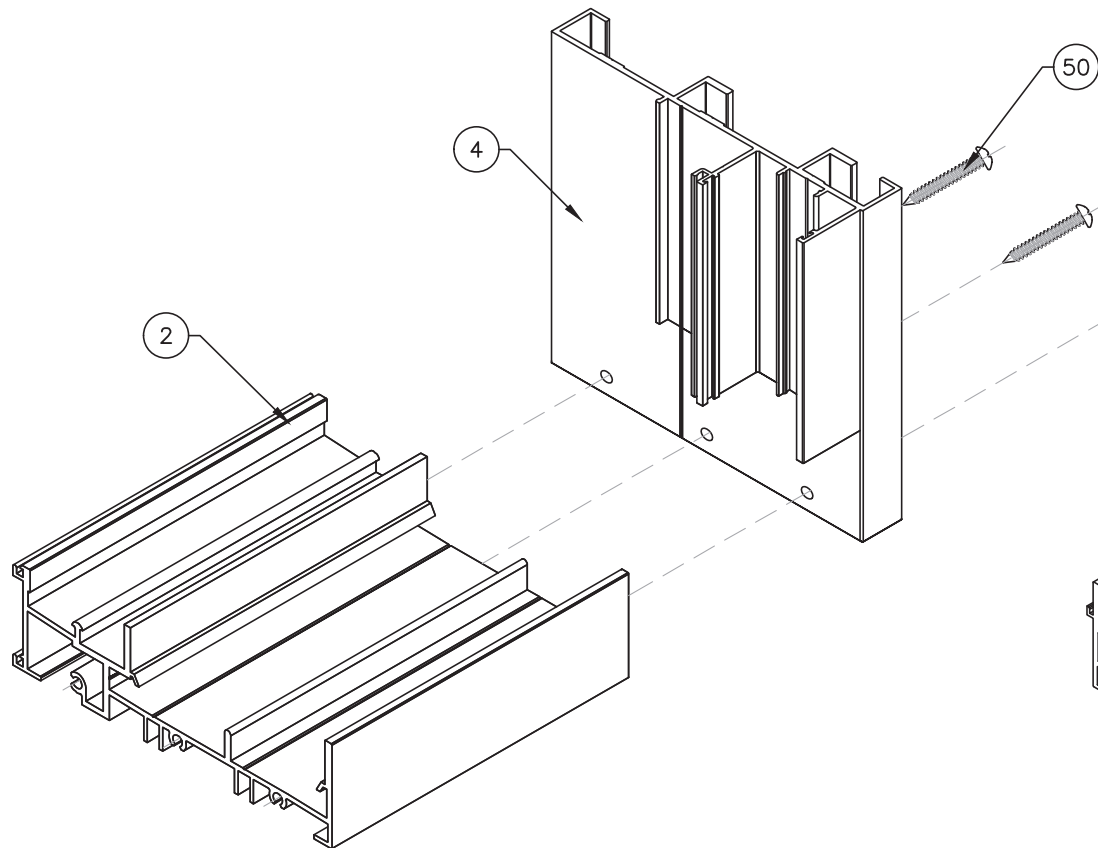
FRAME TOP CORNER  
3 TRACK SHOWN



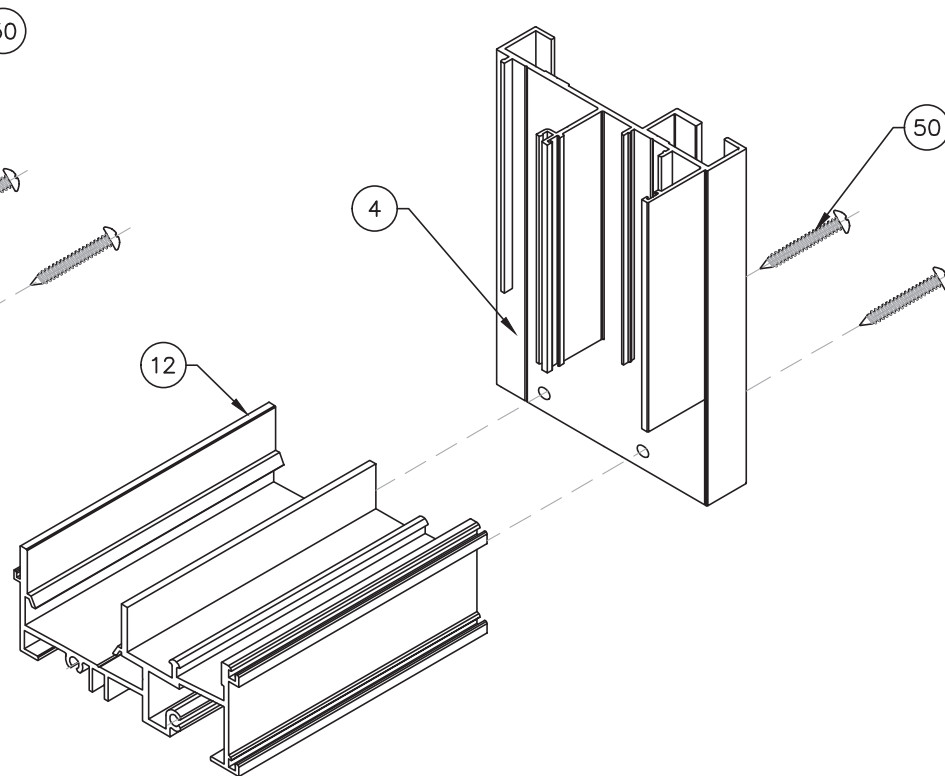
FRAME TOP CORNER  
2 TRACK SHOWN



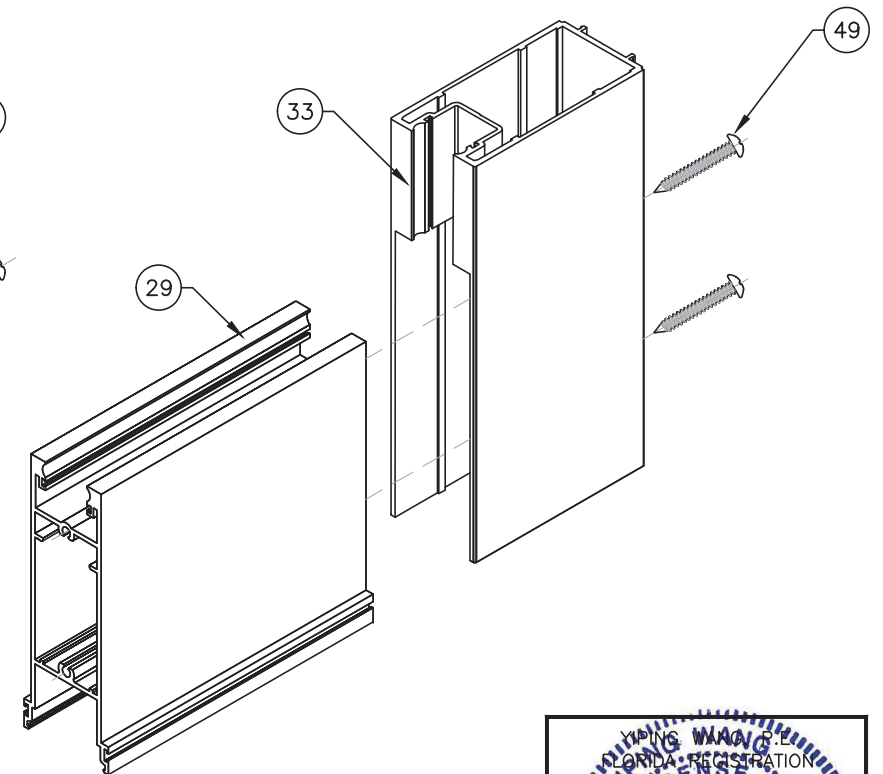
PANEL TOP CORNER



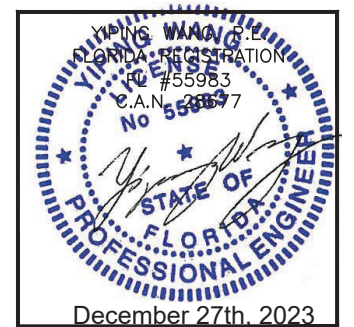
FRAME BOTTOM CORNER  
3 TRACK SHOWN



FRAME BOTTOM CORNER  
2 TRACK SHOWN



PANEL BOTTOM CORNER



| Rev. No. | Date       | Drawn By | Description |
|----------|------------|----------|-------------|
| 1        | 12.04.2023 | James    | REVISION    |

Drawn Date  
12.04.2023

Scale

DRAWING NO.  
AD16-29

ISO

Sheet No.  
59 OF 59