



**Product Approval**  
USER: Public User

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SECRETARY

|                                                                        |                                                                                                                                                                     |                     |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| FL #                                                                   | FL39630-R4                                                                                                                                                          |                     |
| Application Type                                                       | Revision                                                                                                                                                            |                     |
| Code Version                                                           | 2023                                                                                                                                                                |                     |
| Application Status                                                     | Approved                                                                                                                                                            |                     |
| Comments                                                               |                                                                                                                                                                     |                     |
| Archived                                                               | <input type="checkbox"/>                                                                                                                                            |                     |
| Product Manufacturer                                                   | Eco Window Systems                                                                                                                                                  |                     |
| Address/Phone/Email                                                    | 8502 NW 80th Street<br>Suite 103<br>Medley, FL 33166<br>(305) 885-5299<br>carlos.martinez@ecowindowsystems.com                                                      |                     |
| Authorized Signature                                                   | Carlos Martinez<br>carlos.martinez@ecowindowsystems.com                                                                                                             |                     |
| Technical Representative                                               | Lynn Miller, P.E.                                                                                                                                                   |                     |
| Address/Phone/Email                                                    | 1070 Technology Dr<br>N Venice, FL 34275<br>(941) 486-0100 Ext 21142<br>lmiller@pgtindustries.com                                                                   |                     |
| Quality Assurance Representative                                       |                                                                                                                                                                     |                     |
| Address/Phone/Email                                                    |                                                                                                                                                                     |                     |
| Category                                                               | Exterior Doors                                                                                                                                                      |                     |
| Subcategory                                                            | Swinging Exterior Door Assemblies                                                                                                                                   |                     |
| Compliance Method                                                      | Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer<br><input type="checkbox"/> Evaluation Report - Hardcopy Received |                     |
| Florida Engineer or Architect Name who developed the Evaluation Report | A. Lynn Miller, P.E.                                                                                                                                                |                     |
| Florida License                                                        | PE-58705                                                                                                                                                            |                     |
| Quality Assurance Entity                                               | Keystone Certifications, Inc.                                                                                                                                       |                     |
| Quality Assurance Contract Expiration Date                             | 12/31/2032                                                                                                                                                          |                     |
| Validated By                                                           | Steven M. Urich, PE<br><input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received                                                                 |                     |
| Certificate of Independence                                            | <a href="#">FL39630_R4_COI_Cert of Independence.pdf</a>                                                                                                             |                     |
| Referenced Standard and Year (of Standard)                             | <b>Standard</b><br>TAS 201, 202 & 203                                                                                                                               | <b>Year</b><br>1994 |
| Equivalence of Product Standards Certified By                          |                                                                                                                                                                     |                     |
| Sections from the Code                                                 |                                                                                                                                                                     |                     |

## Product Approval Method

## Method 1 Option D

|                           |            |
|---------------------------|------------|
| Date Submitted            | 10/13/2023 |
| Date Validated            | 10/18/2023 |
| Date Pending FBC Approval | 10/25/2023 |
| Date Approved             | 12/13/2023 |
| Date Revised              | 12/13/2024 |

## Summary of Products

| FL #                                                                                                                                                                                                                                                                                                                                | Model, Number or Name                              | Description                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 39630.1                                                                                                                                                                                                                                                                                                                             | Series 1500 Aluminum Outswing & Inswing Pivot Door | Large Missile Impact Resistant aluminum pivot door.                                                                                                                                                                                                                                                                          |
| <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> N/A<br><b>Other:</b> Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information. |                                                    | <b>Installation Instructions</b><br><a href="#">FL39630_R4_II_PV1500FPA - LMI REV A.pdf</a><br>Verified By: A. Lynn Miller, P.E. PE-58705<br>Created by Independent Third Party: No<br><b>Evaluation Reports</b><br><a href="#">FL39630_R4_AE_ECO_PV1500LMI ENG EVAL REV A.pdf</a><br>Created by Independent Third Party: No |
| 39630.2                                                                                                                                                                                                                                                                                                                             | Series 600 Aluminum Outswing Entrance Door         | Large Missile Impact Resistant aluminum outswing entrance door.                                                                                                                                                                                                                                                              |
| <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> N/A<br><b>Other:</b> Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information. |                                                    | <b>Installation Instructions</b><br><a href="#">FL39630_R4_II_FD600FPA - LMI REV A.pdf</a><br>Verified By: A. Lynn Miller, P.E. PE-58705<br>Created by Independent Third Party: No<br><b>Evaluation Reports</b><br><a href="#">FL39630_R4_AE_ECO_FD600LMI ENG EVAL REV A.pdf</a><br>Created by Independent Third Party: No   |
| 39630.3                                                                                                                                                                                                                                                                                                                             | Series 600 Aluminum Outswing Entrance Door         | Non-Impact Resistant aluminum outswing entrance door.                                                                                                                                                                                                                                                                        |
| <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> No<br><b>Design Pressure:</b> N/A<br><b>Other:</b> Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.  |                                                    | <b>Installation Instructions</b><br><a href="#">FL39630_R4_II_FD600FPA - NI REV A.pdf</a><br>Verified By: A. Lynn Miller, P.E. PE-58705<br>Created by Independent Third Party: No<br><b>Evaluation Reports</b><br><a href="#">FL39630_R4_AE_ECO_FD600NI ENG EVAL REV A.pdf</a><br>Created by Independent Third Party: No     |
| 39630.4                                                                                                                                                                                                                                                                                                                             | Series 600 Aluminum Outswing Entrance Door         | Small Missile Impact Resistant aluminum outswing entrance door.                                                                                                                                                                                                                                                              |
| <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> N/A<br><b>Other:</b> Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information. |                                                    | <b>Installation Instructions</b><br><a href="#">FL39630_R4_II_FD600FPA - SMI REV A.pdf</a><br>Verified By: A. Lynn Miller, P.E. PE-58705<br>Created by Independent Third Party: No<br><b>Evaluation Reports</b><br><a href="#">FL39630_R4_AE_ECO_FD600SMI ENG EVAL REV A.pdf</a><br>Created by Independent Third Party: No   |
| 39630.5                                                                                                                                                                                                                                                                                                                             | Series 650 Aluminum Outswing Entrance Door         | Large Missile Impact Resistant aluminum outswing entrance door.                                                                                                                                                                                                                                                              |
| <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> N/A<br><b>Other:</b> Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information. |                                                    | <b>Installation Instructions</b><br><a href="#">FL39630_R4_II_FD650FPA - LMI REV A.pdf</a><br>Verified By: A. Lynn Miller, P.E. PE-58705<br>Created by Independent Third Party: No<br><b>Evaluation Reports</b><br><a href="#">FL39630_R4_AE_ECO_FD650LMI ENG EVAL REV A.pdf</a><br>Created by Independent Third Party: No   |
| 39630.6                                                                                                                                                                                                                                                                                                                             | Series 800 Aluminum Outswing Entrance Door         | Large Missile Impact Resistant aluminum outswing entrance door.                                                                                                                                                                                                                                                              |
| <b>Limits of Use</b><br><b>Approved for use in HVHZ:</b> Yes<br><b>Approved for use outside HVHZ:</b> Yes                                                                                                                                                                                                                           |                                                    | <b>Installation Instructions</b><br><a href="#">FL39630_R4_II_FD800FPA - LMI REV A.pdf</a><br>Verified By: A. Lynn Miller, P.E. PE-58705                                                                                                                                                                                     |

|                                                                                                                                                                                                                                                                                                                                     |                                            |                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Impact Resistant:</b> Yes<br><b>Design Pressure:</b> N/A<br><b>Other:</b> Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.                                                                                                              |                                            | Created by Independent Third Party: No<br><b>Evaluation Reports</b><br><a href="#">FL39630_R4_AE_ECO FD800LMI ENG EVAL REV A.pdf</a><br>Created by Independent Third Party: No                                                                                                                                             |
| 39630.7                                                                                                                                                                                                                                                                                                                             | Series 810 Aluminum Outswing Entrance Door | Large Missile Impact Resistant aluminum outswing entrance door.                                                                                                                                                                                                                                                            |
| <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> N/A<br><b>Other:</b> Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information. |                                            | <b>Installation Instructions</b><br><a href="#">FL39630_R4_II_FD810FPA - LMI REV A.pdf</a><br>Verified By: A. Lynn Miller, P.E. PE-58705<br>Created by Independent Third Party: No<br><b>Evaluation Reports</b><br><a href="#">FL39630_R4_AE_ECO FD810LMI ENG EVAL REV A.pdf</a><br>Created by Independent Third Party: No |
| 39630.8                                                                                                                                                                                                                                                                                                                             | Series 845 Aluminum Outswing Entrance Door | Large Missile Impact Resistant aluminum outswing entrance door.                                                                                                                                                                                                                                                            |
| <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> N/A<br><b>Other:</b> Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information. |                                            | <b>Installation Instructions</b><br><a href="#">FL39630_R4_II_FD845FPA - LMI REV A.pdf</a><br>Verified By: A. Lynn Miller, P.E. PE-58705<br>Created by Independent Third Party: No<br><b>Evaluation Reports</b><br><a href="#">FL39630_R4_AE_ECO FD845LMI ENG EVAL REV A.pdf</a><br>Created by Independent Third Party: No |
| 39630.9                                                                                                                                                                                                                                                                                                                             | Series 950 Aluminum Outswing Entrance Door | Large Missile Impact Resistant aluminum outswing entrance door.                                                                                                                                                                                                                                                            |
| <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> N/A<br><b>Other:</b> Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information. |                                            | <b>Installation Instructions</b><br><a href="#">FL39630_R4_II_FD950FPA - LMI REV A.pdf</a><br>Verified By: A. Lynn Miller, P.E. PE-58705<br>Created by Independent Third Party: No<br><b>Evaluation Reports</b><br><a href="#">FL39630_R4_AE_ECO FD950LMI ENG EVAL REV A.pdf</a><br>Created by Independent Third Party: No |

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

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**Product Approval Accepts:**



GLASS DETAIL

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

SERIES 1500 ALUMINUM OUTSWING/INSWING PIVOT DOOR

APPROVAL APPLIES TO SINGLE (X) LEAF DOORS WITHOUT TRANSOM OR SINGLE (X) LEAF DOORS WITH TRANSOM SEE SHEETS 2. ALSO SINGLE (O) SIDELITES WITH TRANSOM SEE SHEET 3. ALSO SIDE BY SIDE COMBINATION OF DOOR AND SIDELITES USING 'H' MULLION IN BETWEEN.

DOORS NOT APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. DOORS MAY BE INSTALLED IN LOCATIONS WHERE THE OVERHANG LENGTH IS GREATER THAN OR EQUAL TO THE OVERHANG HEIGHT (SEE FIGURE A).

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

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT AS LISTED, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

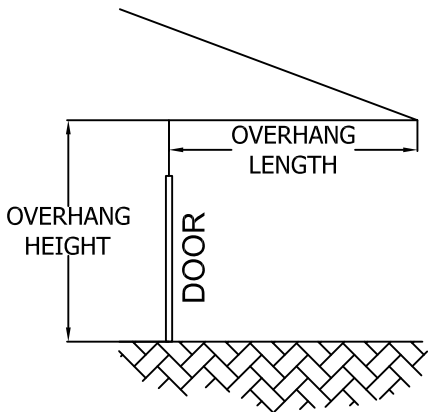
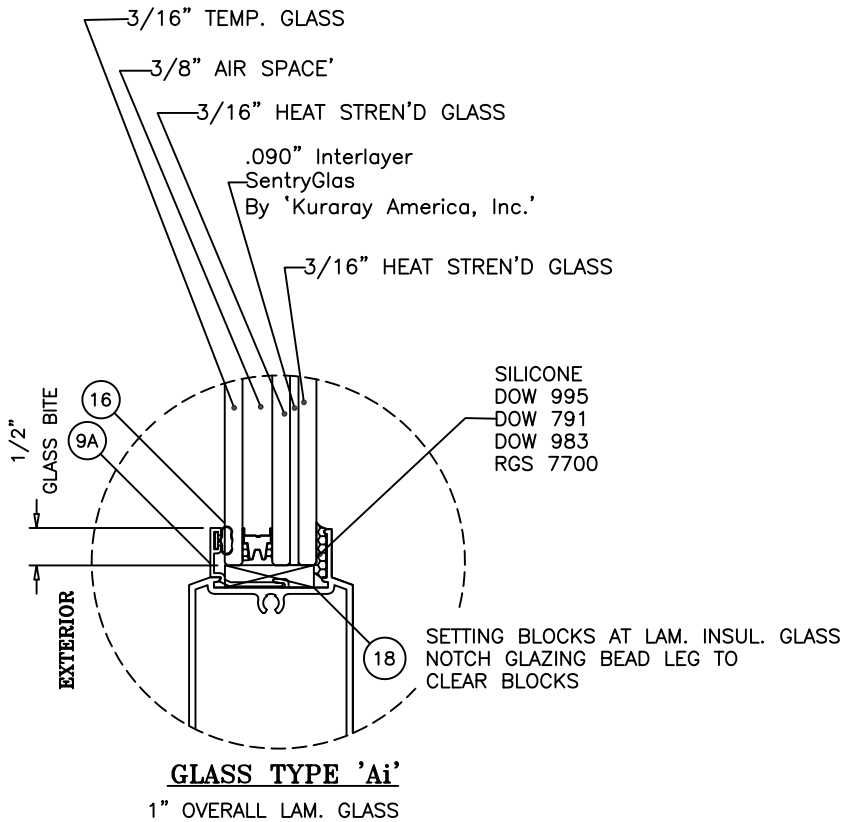
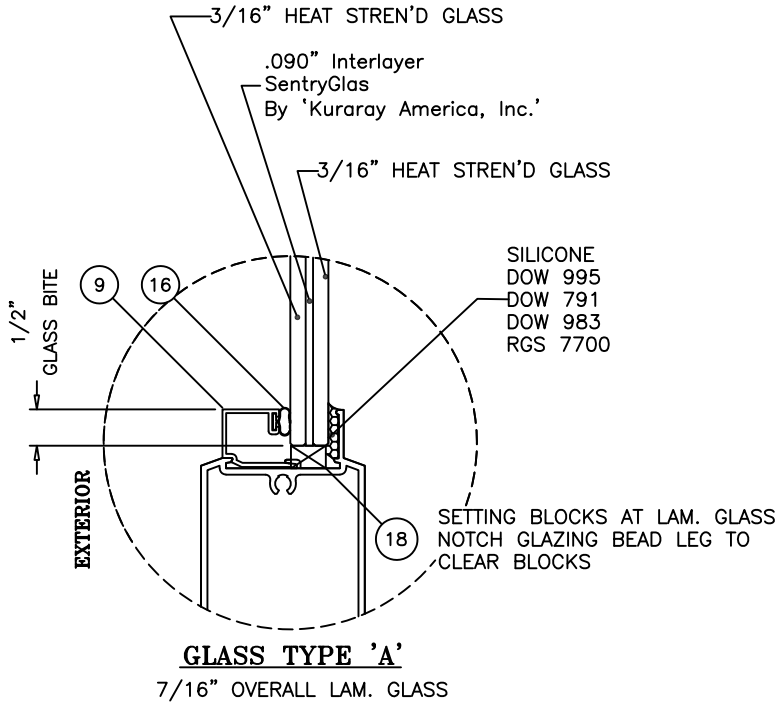
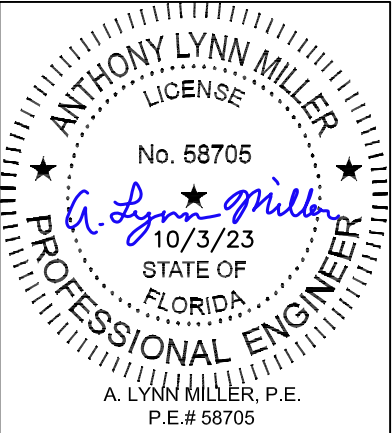


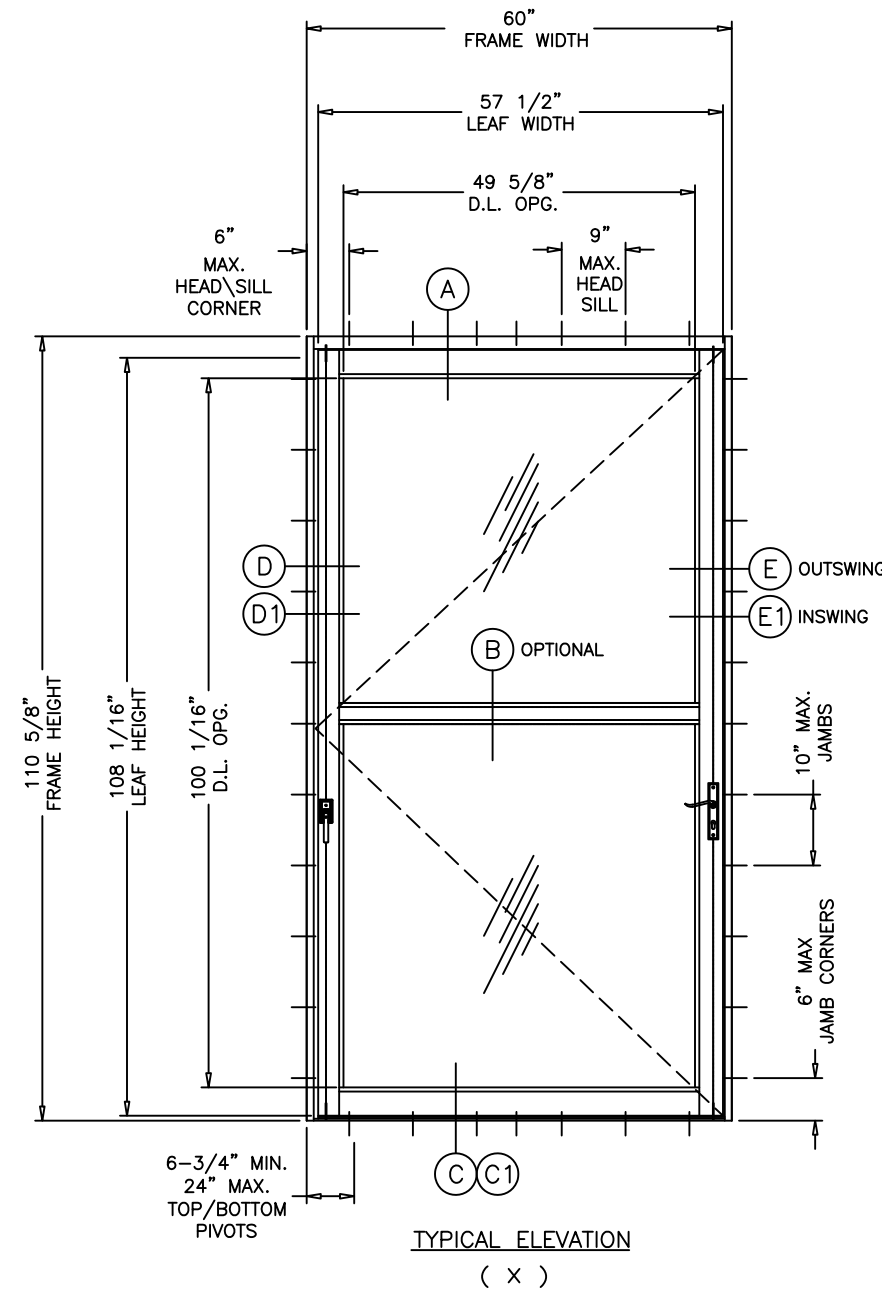
FIGURE A



| Revision:                        |
|----------------------------------|
| PLACED ANCHORS IN TABLE          |
| FORMAT, ADDED                    |
| ANCHOR                           |
| HEAD TYPE                        |
| NOTE, REMOVED                    |
| SILICONE AND BACKSTOP ON INSTALL |
| DETAIL                           |

|                                                                                                                |             |                                                                                              |           |         |
|----------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------|-----------|---------|
| <br><b>window systems</b> |             | PREPARED BY A. LYNN MILLER<br>1070 TECHNOLOGY DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600 |           |         |
|                                                                                                                |             | REGISTRATION #29296                                                                          |           |         |
| ECO WINDOW SYSTEMS, LLC.<br>8502 N.W. 80th ST. MEDLEY, FL 33166<br>TEL. (305) 885-5299 FAX. (305) 885-5902     |             | SERIES 1500 ALUM. OUTSWING/INSWING PIVOT DOOR (L.M.I.)                                       |           |         |
| Title                                                                                                          | Date        |                                                                                              | 9/07/2022 |         |
| GENERAL INFORMATION & GLASS<br>DETAILS                                                                         |             | A.M.                                                                                         |           | Rev.    |
|                                                                                                                |             | By                                                                                           |           |         |
| Series                                                                                                         | SERIES 1500 | Sheet                                                                                        | 1 OF 14   | DWG No. |
|                                                                                                                |             | PV1500FPA - LMI                                                                              |           | A       |



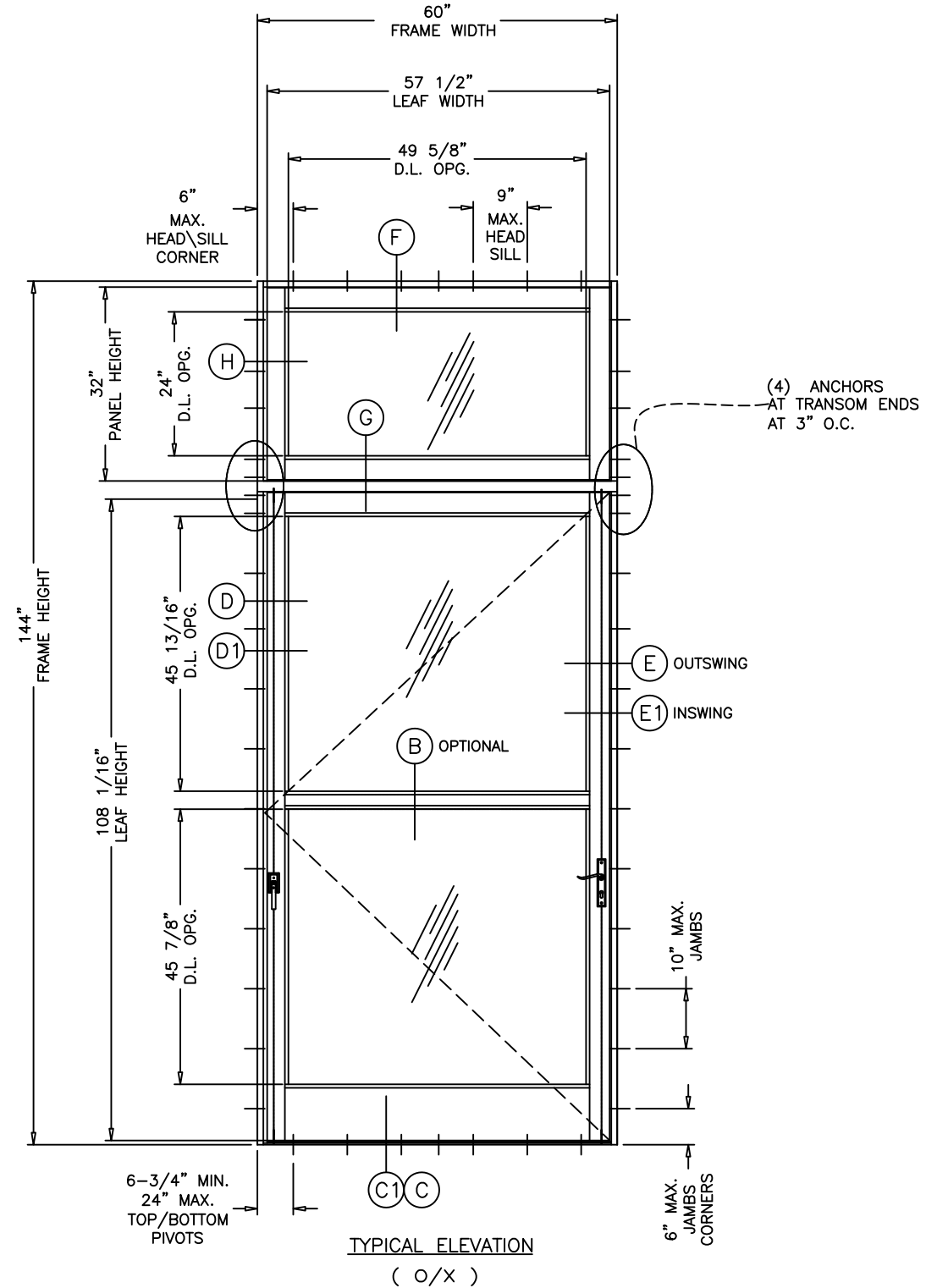


TYPICAL ELEVATION  
( X )

MAXIMUM DESIGN LOAD RATINGS = ±60.0 PSF  
(FOR MAX. SIZE SHOWN ABOVE OR SMALLER)  
AS PERMITTED BY FBC REQUIREMENT

GLASS D.L.O. FORMULA:  
D.L.O. WIDTH = FRAME WIDTH - 10.375"  
D.L.O. HEIGHT = FRAME HEIGHT - 10.563"

NOTE:  
APPLICABLE AGGRESS REQUIREMENT TO BE  
REVIEWED BY AHJ.



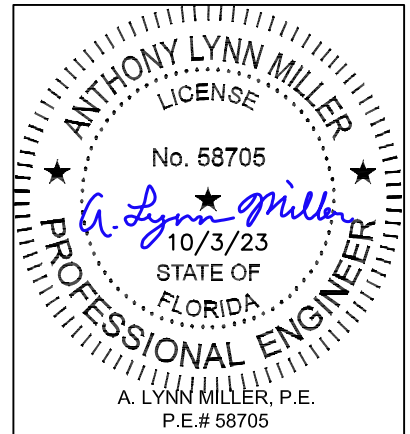
TYPICAL ELEVATION  
( O/X )

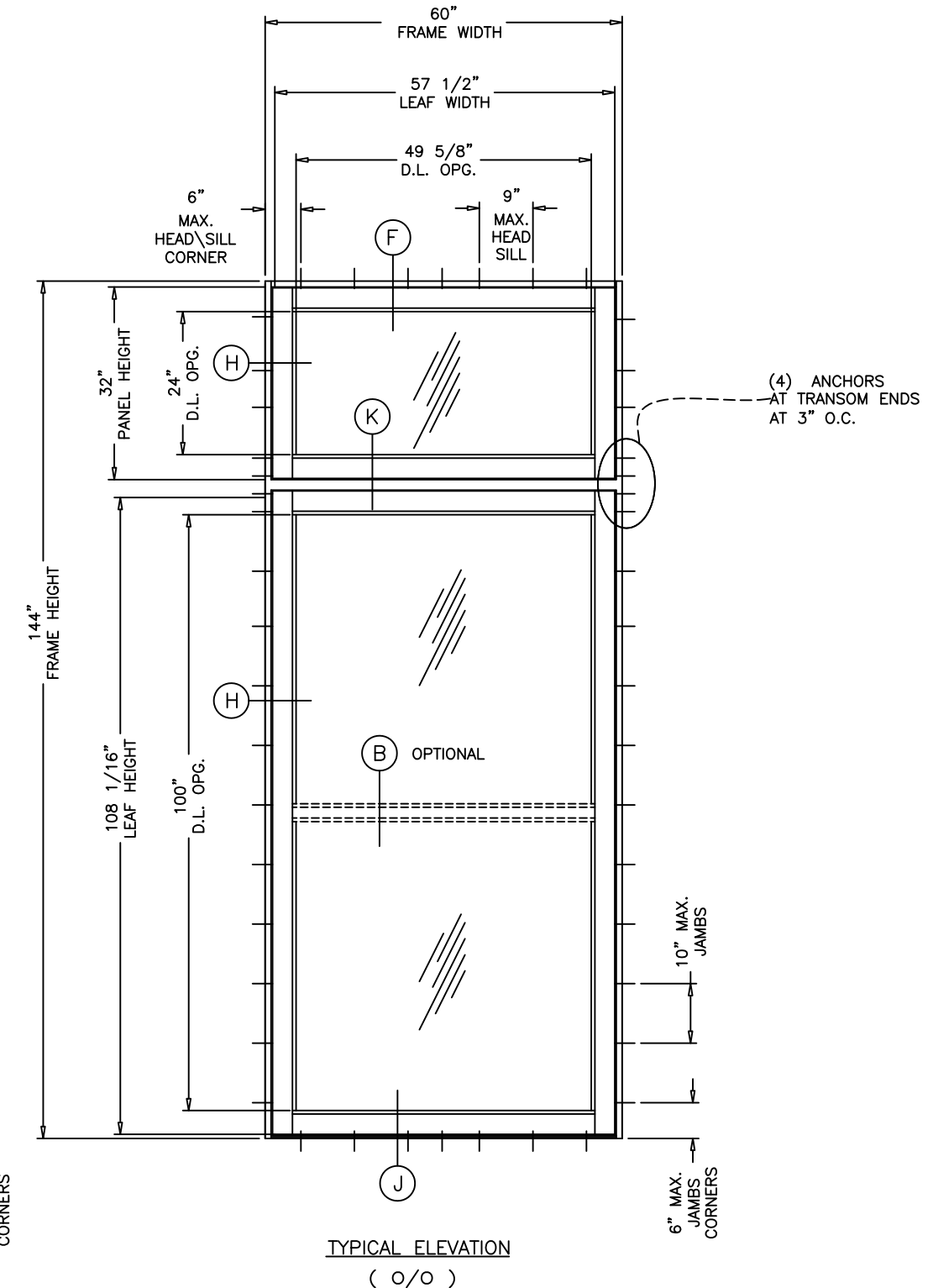
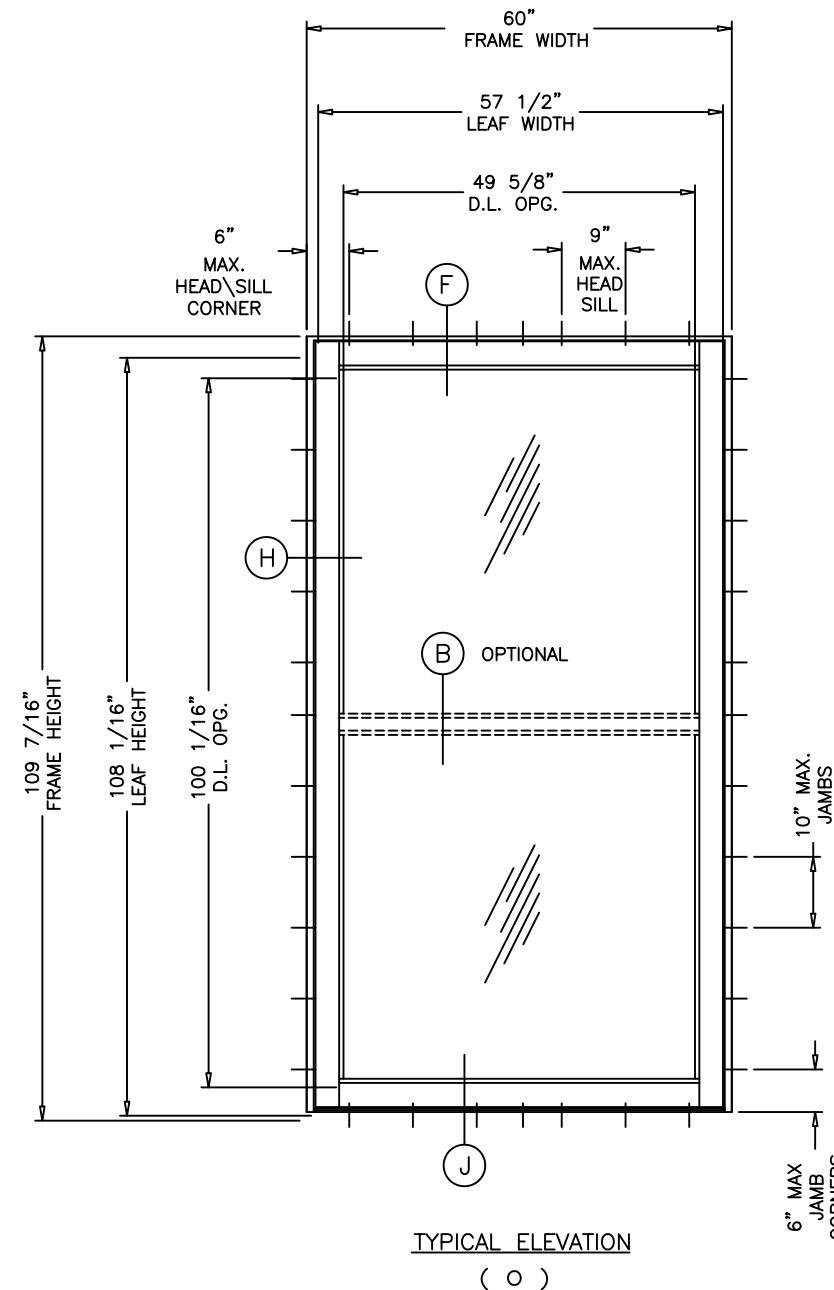
NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS).

Revision:

|                         |               |                  |               |                                  |        |
|-------------------------|---------------|------------------|---------------|----------------------------------|--------|
| PLACED ANCHORS IN TABLE | FORMAT, ADDED | ANCHOR HEAD TYPE | NOTE, REMOVED | SILICONE AND BACKSTOP ON INSTALL | DETAIL |
|-------------------------|---------------|------------------|---------------|----------------------------------|--------|

|                                                                                                             |  |                                                        |  |           |  |
|-------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------|--|-----------|--|
| PREPARED BY A. LYNN MILLER<br>1070 TECHNOLOGY DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600                |  | REGISTRATION #29296                                    |  | 9/07/2022 |  |
| ECO WINDOW SYSTEMS, LLC.<br>8502 N.W. 80th ST., MEDLEY, FL 33166<br>TEL. (305) 885-5299 FAX. (305) 885-5902 |  | SERIES 1500 ALUM. OUTSWING/INSWING PIVOT DOOR (L.M.I.) |  | Date      |  |
| ELEVATION                                                                                                   |  | By A.M.                                                |  | Rev. A    |  |
| SERIES 1500                                                                                                 |  | 2 OF 14                                                |  | DWG No.   |  |
| Sheet                                                                                                       |  | PV1500FPA - LMI                                        |  | A         |  |

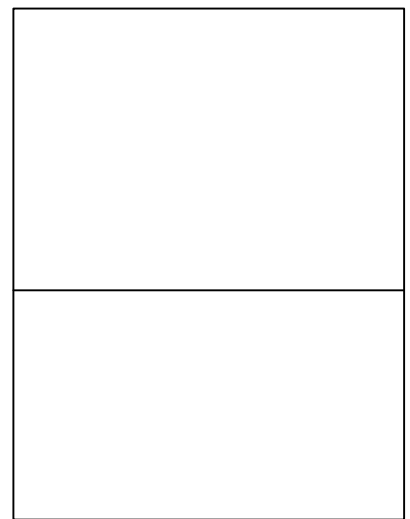




MAXIMUM DESIGN LOAD RATINGS = ±60.0 PSF  
(FOR MAX. SIZE SHOWN ABOVE OR SMALLER)  
AS PERMITTED BY FBC REQUIREMENT

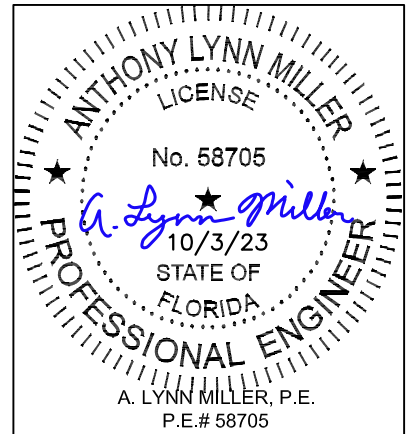
GLASS D.L.O. FORMULA:  
D.L.O WIDTH = FRAME WIDTH - 10.375"  
D.L.O. HEIGHT = FRAME HEIGHT - 10.563"

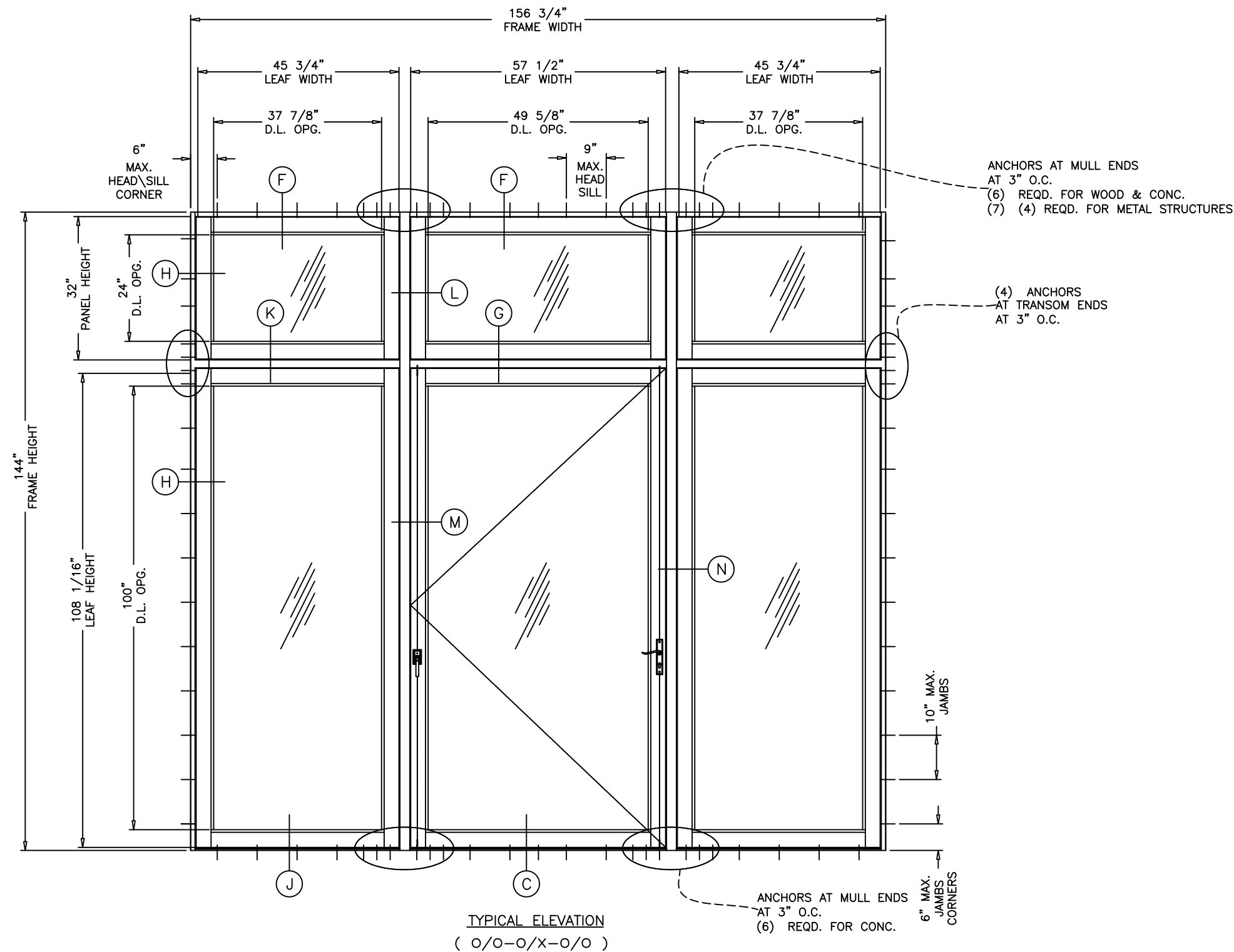
NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
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| Revision:                        |
|----------------------------------|
| PLACED ANCHORS IN TABLE          |
| FORMAT, ADDED                    |
| ANCHOR                           |
| HEAD TYPE                        |
| NOTE, REMOVED                    |
| SILICONE AND BACKSTOP ON INSTALL |
| DETAIL                           |

|                                                                                                             |  |                                                        |  |           |  |
|-------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------|--|-----------|--|
| PREPARED BY A. LYNN MILLER<br>1070 TECHNOLOGY DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600                |  | REGISTRATION #29296                                    |  | 9/07/2022 |  |
| ECO WINDOW SYSTEMS, LLC.<br>8502 N.W. 80th ST., MEDLEY, FL 33166<br>TEL. (305) 885-5299 FAX. (305) 885-5902 |  | SERIES 1500 ALUM. OUTSWING/INSWING PIVOT DOOR (L.M.I.) |  | Date      |  |
| ELEVATION CONT.                                                                                             |  | A.M.                                                   |  | By        |  |
| SERIES 1500                                                                                                 |  | 3 OF 14                                                |  | DWG No.   |  |
| PV1500FPA - LMI                                                                                             |  | Rev.                                                   |  | A         |  |



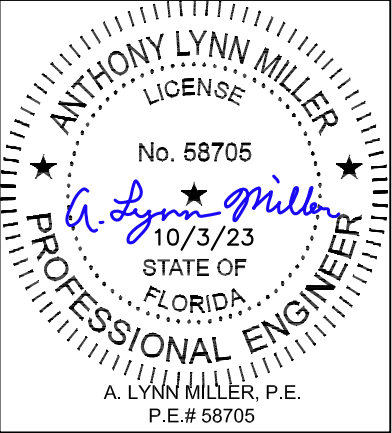


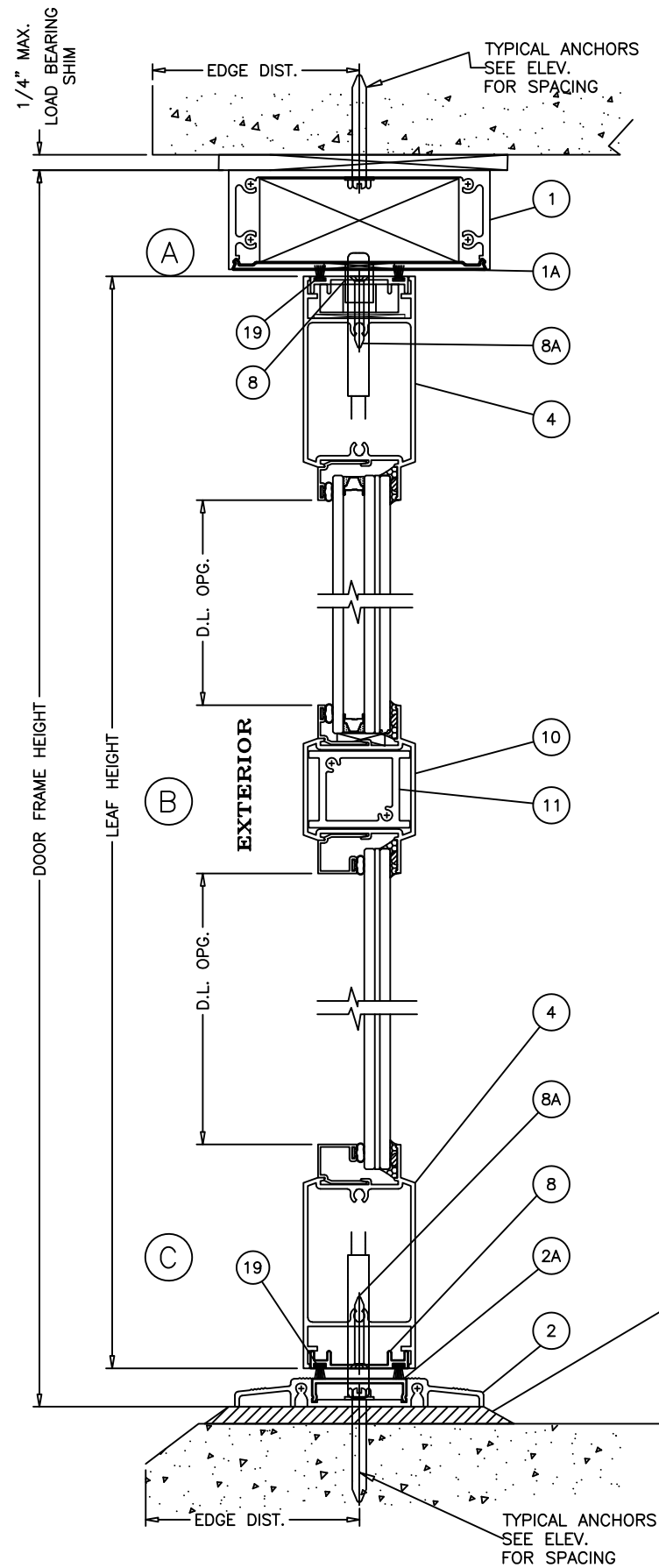
MAXIMUM DESIGN LOAD RATINGS = ±60.0 PSF  
(FOR MAX. SIZE SHOWN ABOVE OR SMALLER)  
AS PERMITTED BY FBC REQUIREMENT

NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS).

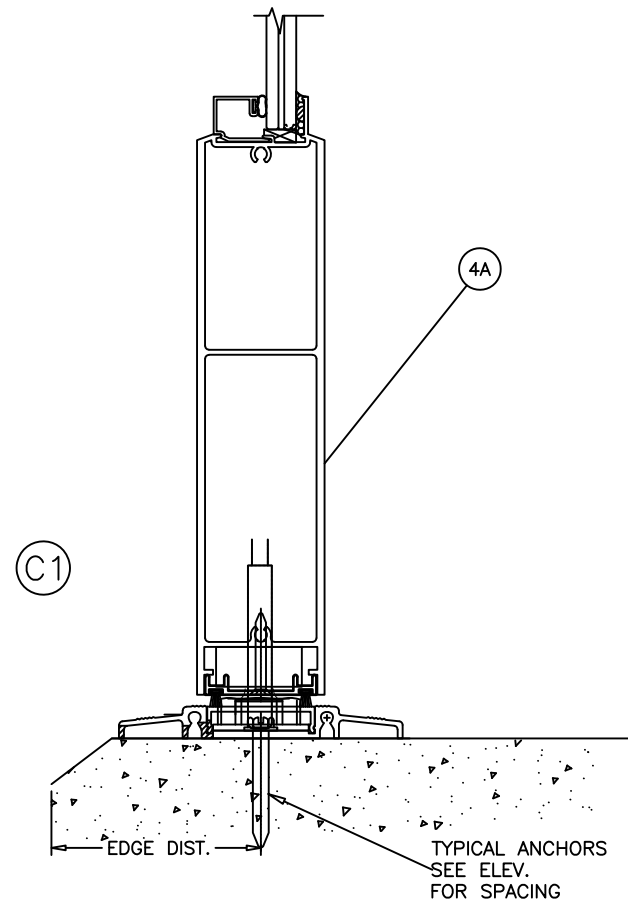
| Revision:                        |
|----------------------------------|
| PLACED ANCHORS IN TABLE          |
| FORMAT, ADDED                    |
| ANCHOR                           |
| HEAD TYPE                        |
| NOTE, REMOVED                    |
| SILICONE AND BACKSTOP ON INSTALL |
| DETAIL                           |

|                                                                                                                                                                                                             |  |                                                                                              |  |                 |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------|--|-----------------|-----------|
| <br><b>ECO WINDOW SYSTEMS, LLC.</b><br>8502 N.W. 80th ST., MEDLEY, FL 33166<br>TEL. (305) 885-5299 FAX. (305) 885-5902 |  | PREPARED BY A. LYNN MILLER<br>1070 TECHNOLOGY DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600 |  |                 |           |
|                                                                                                                                                                                                             |  | REGISTRATION #29296                                                                          |  |                 |           |
|                                                                                                                                                                                                             |  |                                                                                              |  |                 |           |
| Title                                                                                                                                                                                                       |  | SERIES 1500 ALUM. OUTSWING/INSWING PIVOT DOOR (L.M.I.)                                       |  | Date            | 9/07/2022 |
| Series Desc.                                                                                                                                                                                                |  | ELEVATIONS CONT.                                                                             |  | Drawn By        | A.M.      |
| Sheet                                                                                                                                                                                                       |  | 4 OF 14                                                                                      |  | DWG No.         |           |
| SERIES 1500                                                                                                                                                                                                 |  |                                                                                              |  | PV1500FPA - LMI | Rev.      |
|                                                                                                                                                                                                             |  |                                                                                              |  |                 | A         |





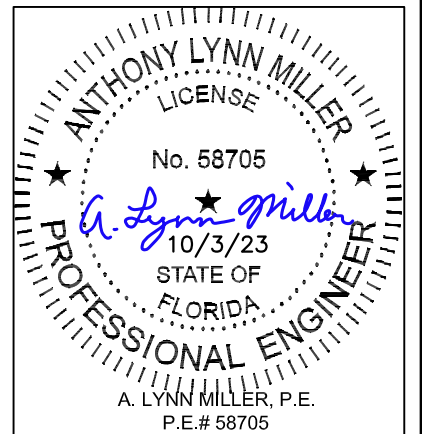
POURED & HARDENED  
HIGH STRENGTH GROUT  
 $f'_c = 5000$  PSI MIN.  
NOT BY 'ECO WINDOWS'  
MUST TRANSFER SHEAR  
LOADS TO STRUCTURE  
LOAD BEARING  
(SOLID SHIMS  
OPTIONAL TO GROUT)

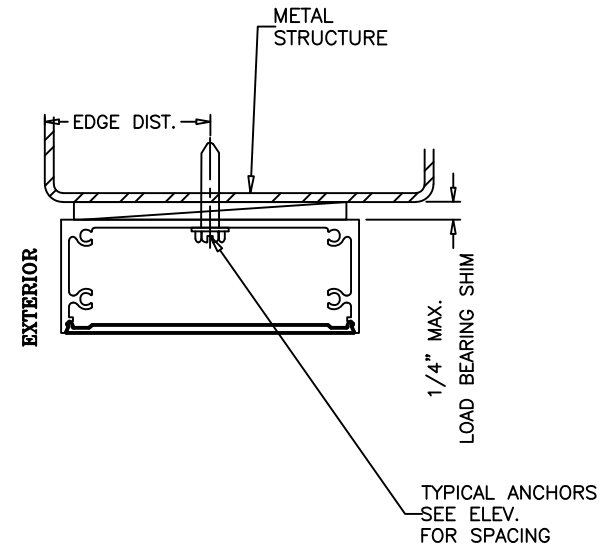
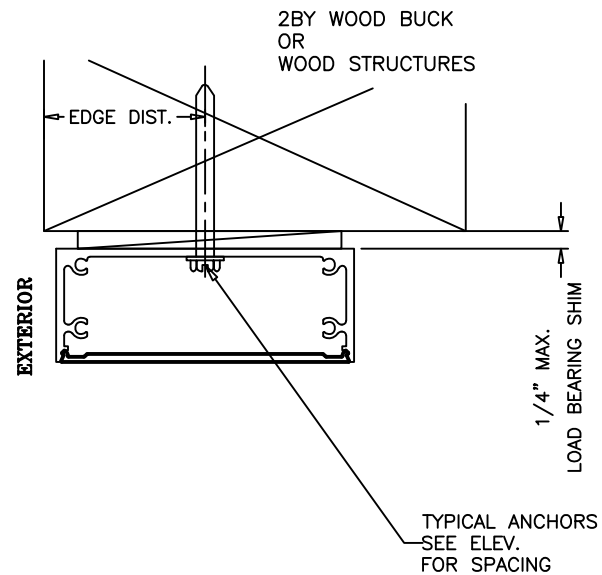
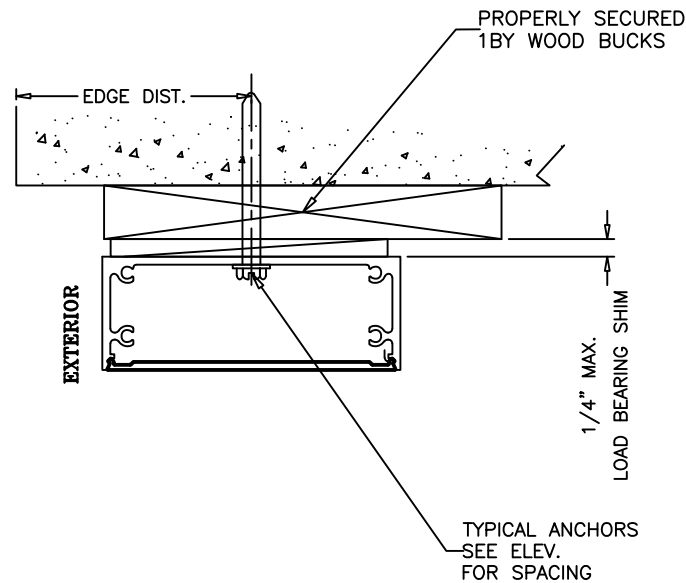


# DOOR DETAILS

| Revision:    |
|--------------|
| PLACED       |
| ANCHORS IN   |
| TABLE        |
| FORMAT,      |
| ADDED        |
| ANCHOR       |
| HEAD TYPE    |
| NOTE,        |
| REMOVED      |
| SILICONE AND |
| BACKSTOP ON  |
| INSTALL      |
| DETAIL       |

|                                                                                                             |  |                     |  |                 |  |
|-------------------------------------------------------------------------------------------------------------|--|---------------------|--|-----------------|--|
| PREPARED BY A. LYNN MILLER<br>1070 TECHNOLOGY DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600                |  | REGISTRATION #29296 |  | 9/07/2022       |  |
| ECO WINDOW SYSTEMS, LLC.<br>8502 N.W. 80th ST., MEDLEY, FL 33166<br>TEL. (305) 885-5299 FAX. (305) 885-5902 |  | A.M.                |  | PV1500FPA - LMI |  |
| SERIES 1500                                                                                                 |  | 5 OF 14             |  | A               |  |
| VERTICAL CROSS SECTION DETAILS                                                                              |  | Dwg No.             |  | Rev.            |  |
| SERIES 1500                                                                                                 |  | 5 OF 14             |  | A               |  |





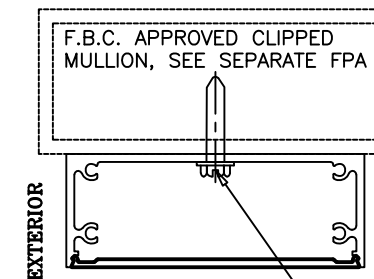
1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WINDOWS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

| Anchor Type                             | Frame Member | Substrate                                                        | Min. Edge Distance | Min. Embedment or Metal Thickness       |
|-----------------------------------------|--------------|------------------------------------------------------------------|--------------------|-----------------------------------------|
| 1/4" DeWalt UltraCon +                  | All          | Southern Pine (SG = 0.55)                                        | 1"                 | 1-1/2"                                  |
|                                         | All          | Thru 1BY Buck into Concrete (min. 3 ksi)                         | 2-1/2"             | 1-1/4"                                  |
|                                         | Jambs        | Thru 1BY Buck into Hollow or Filled Block (ASTM C90, min. 2 ksi) | 2-1/2"             | 1-1/4"                                  |
|                                         | All          | Concrete (min. 3ksi)                                             | 2-1/2"             | 1-1/4"                                  |
|                                         | Jambs        | Hollow or Filled Block (ASTM C90, min. 2 ksi)                    | 2-1/2"             | 1-1/4"                                  |
| #14 SMS or Self Drilling Screws (Gr. 2) | All          | F.B.C. Approved Mullions                                         | 3/4"               | (3) Threads min. beyond metal thickness |
|                                         | All          | Aluminum 1/8" Thk. Min. (6063-T5)                                | 3/4"               | (3) Threads min. beyond metal thickness |
|                                         | All          | Steel 1/8" Thk. Min. (min. 36 ksi)                               | 3/4"               | (3) Threads min. beyond metal thickness |

1. STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED
2. ALL ANCHOR HEAD TYPES ARE ACCEPTABLE

**DOOR DETAILS**



Revision:  
PLACED ANCHORS IN TABLE  
FORMAT, ADDED ANCHOR HEAD TYPE  
NOTE, REMOVED SILICONE AND BACKSTOP ON INSTALL  
DETAIL

PREPARED BY A. LYNN MILLER  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

REGISTRATION #29296

ECO WINDOW SYSTEMS, LLC.  
8502 N.W. 80th ST., MEDLEY, FL 33166  
TEL. (305) 885-5299 FAX. (305) 885-5902

9/07/2022

By A.M.

ANCHOR DETAILS

ANCHOR DETAILS

Rev. A

DWG No. PV1500FPA - LMI

6 OF 14

Sheet 1500

ECO window systems

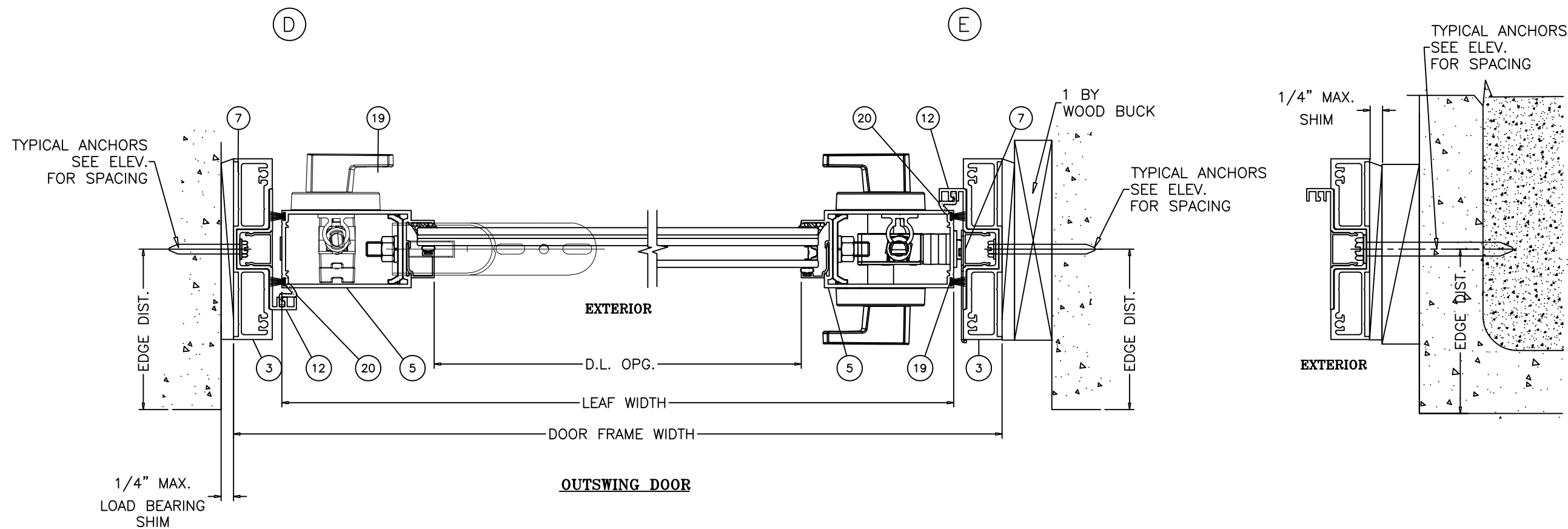
ECO WINDOW SYSTEMS, LLC.  
8502 N.W. 80th ST., MEDLEY, FL 33166  
TEL. (305) 885-5299 FAX. (305) 885-5902

SERIES 1500 ALUM. OUTSWING/INSWING PIVOT DOOR (L.M.I.)

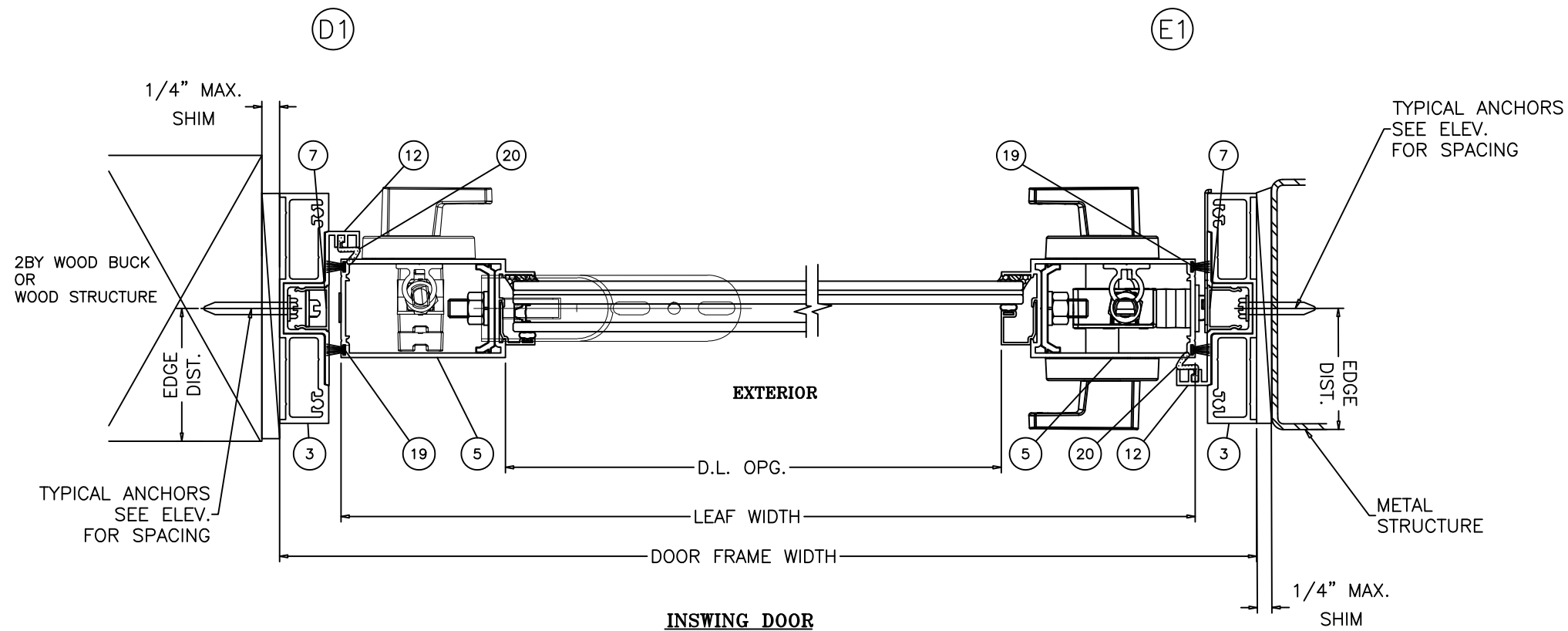
ANCHOR DETAILS

SERIES 1500

ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
10/3/23  
STATE OF FLORIDA  
A. LYNN MILLER, P.E.  
P.E.# 58705

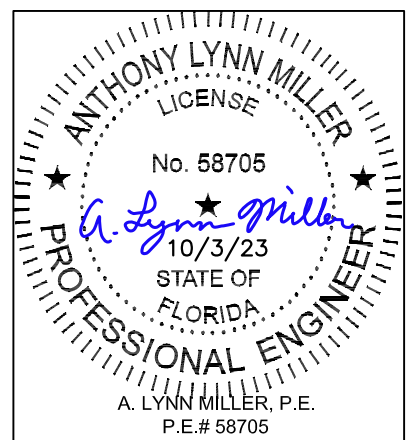


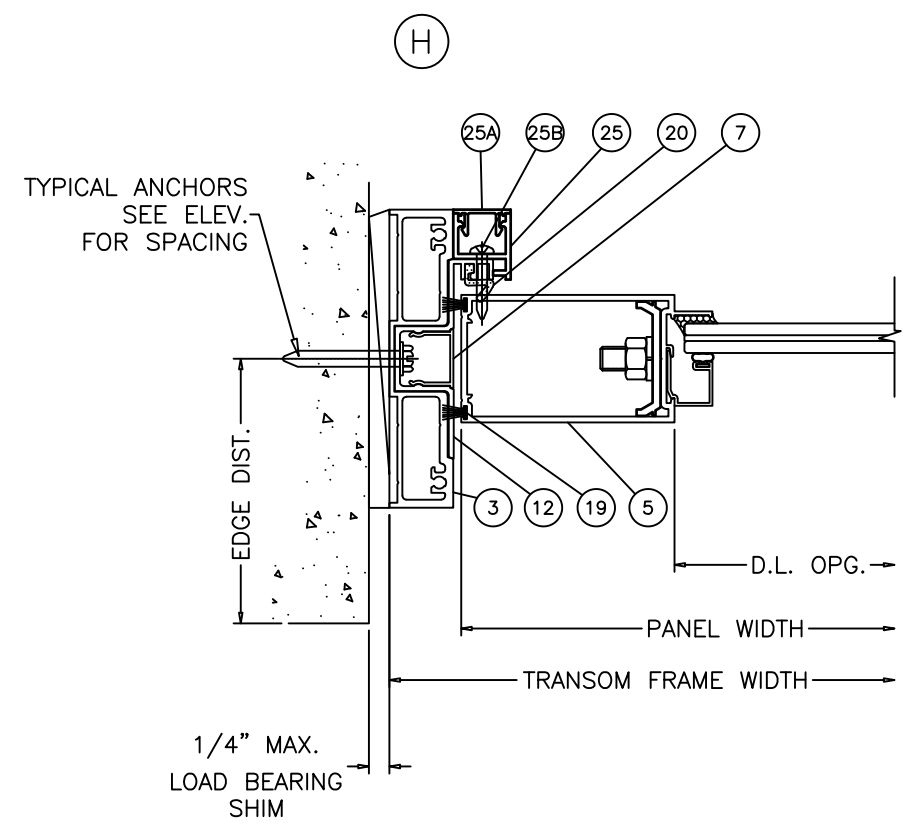
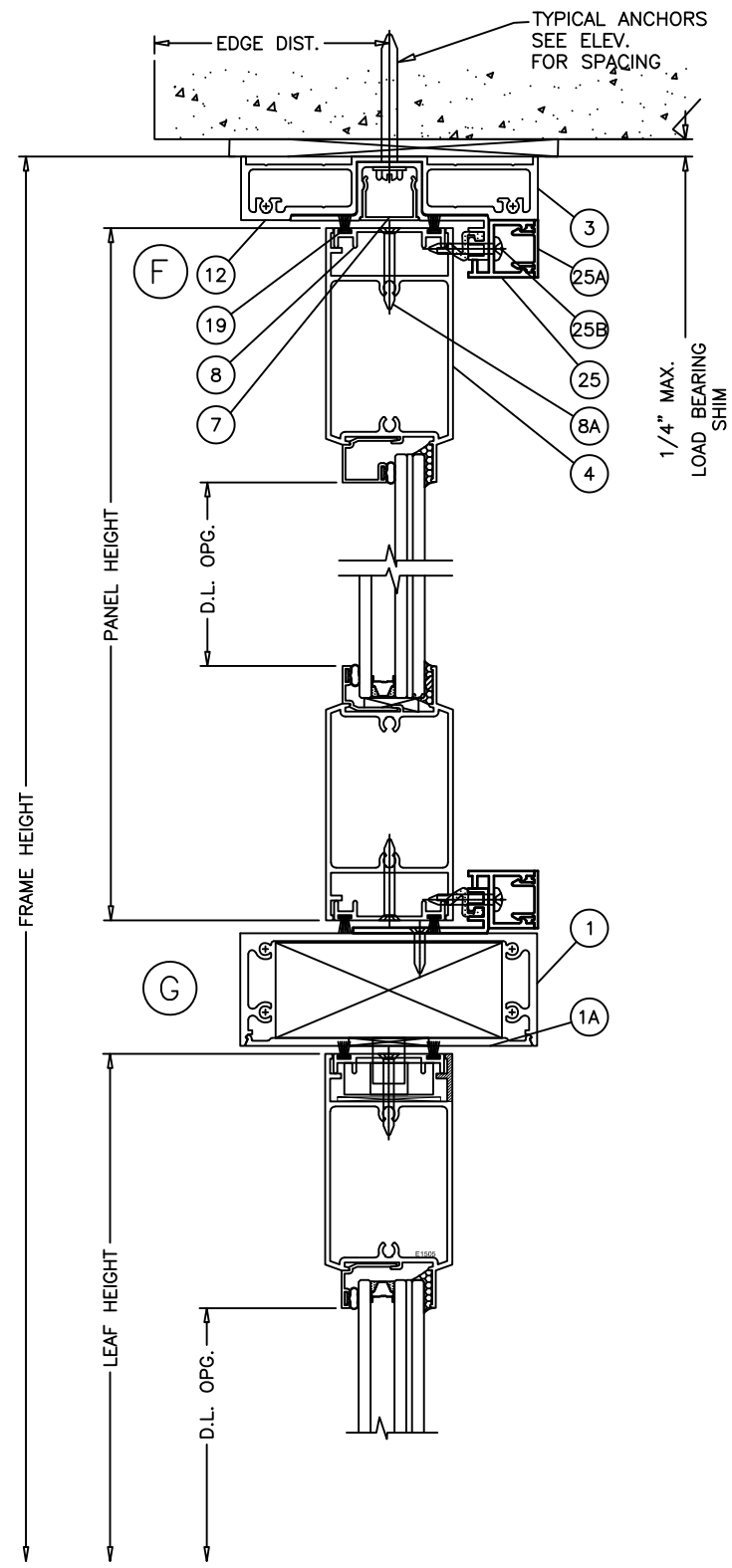
**DOOR DETAILS**



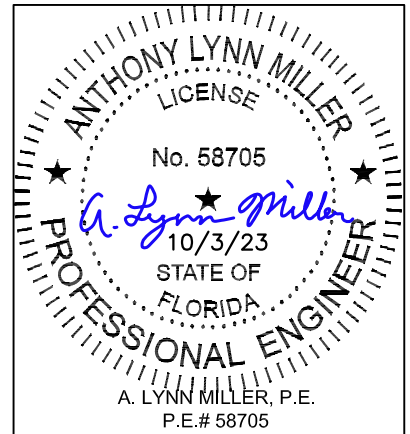
|           |                                  |
|-----------|----------------------------------|
| Revision: | PLACED ANCHORS IN TABLE          |
|           | FORMAT, ADDED                    |
|           | ANCHOR HEAD TYPE                 |
|           | NOTE, REMOVED                    |
|           | SILICONE AND BACKSTOP ON INSTALL |
|           | DETAIL                           |

|                                                                                                                |             |                                                                                                             |                 |
|----------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------|-----------------|
| <br><b>window systems</b> |             | ECO WINDOW SYSTEMS, LLC.<br>8502 N.W. 80TH ST., MEDLEY, FL 33166<br>TEL. (305) 885-5299 FAX. (305) 885-5902 |                 |
| PREPARED BY A. LYNN MILLER<br>1070 TECHNOLOGY DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600                   |             | REGISTRATION #29296                                                                                         |                 |
| SERIES 1500 ALUM. OUTSWING/INSWING PIVOT DOOR (L.M.I.)                                                         |             | Date                                                                                                        | 9/07/2022       |
| HORIZONTAL CROSS SECTION DETAILS                                                                               |             | Drawn                                                                                                       | A.M.            |
| Series                                                                                                         | SERIES 1500 | DWG No.                                                                                                     | PV1500FPA - LMI |
| Sheet                                                                                                          | 7 OF 14     | Rev.                                                                                                        | A               |





TRANSOM DETAILS



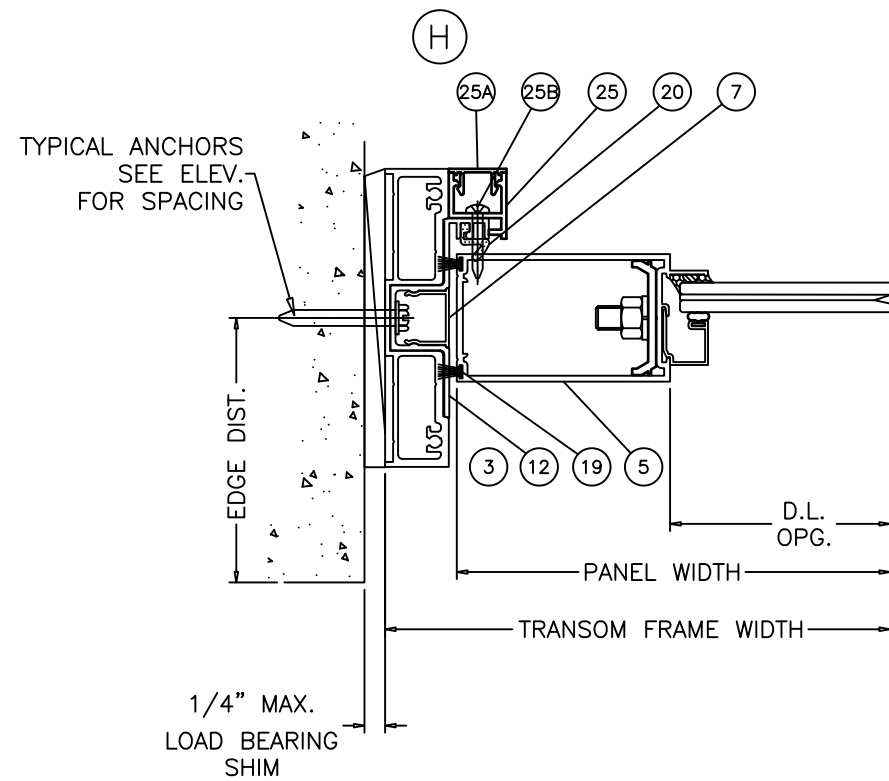
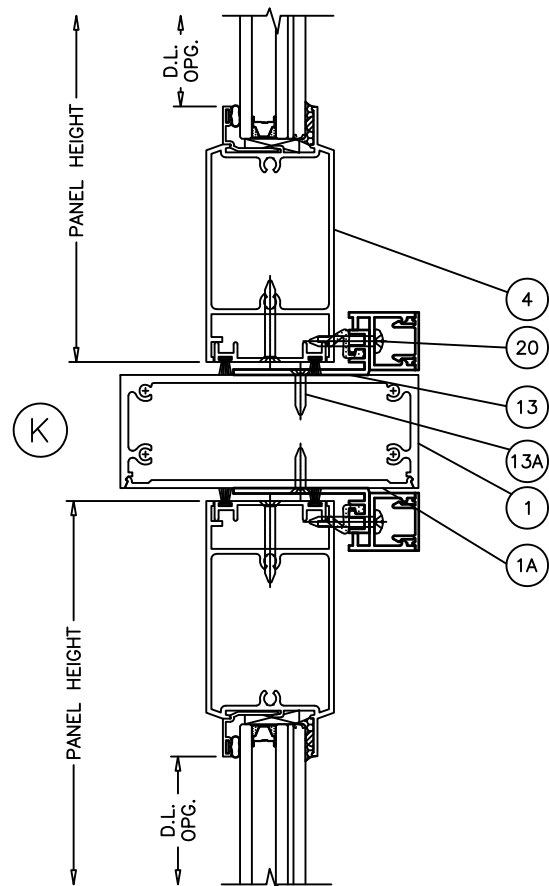
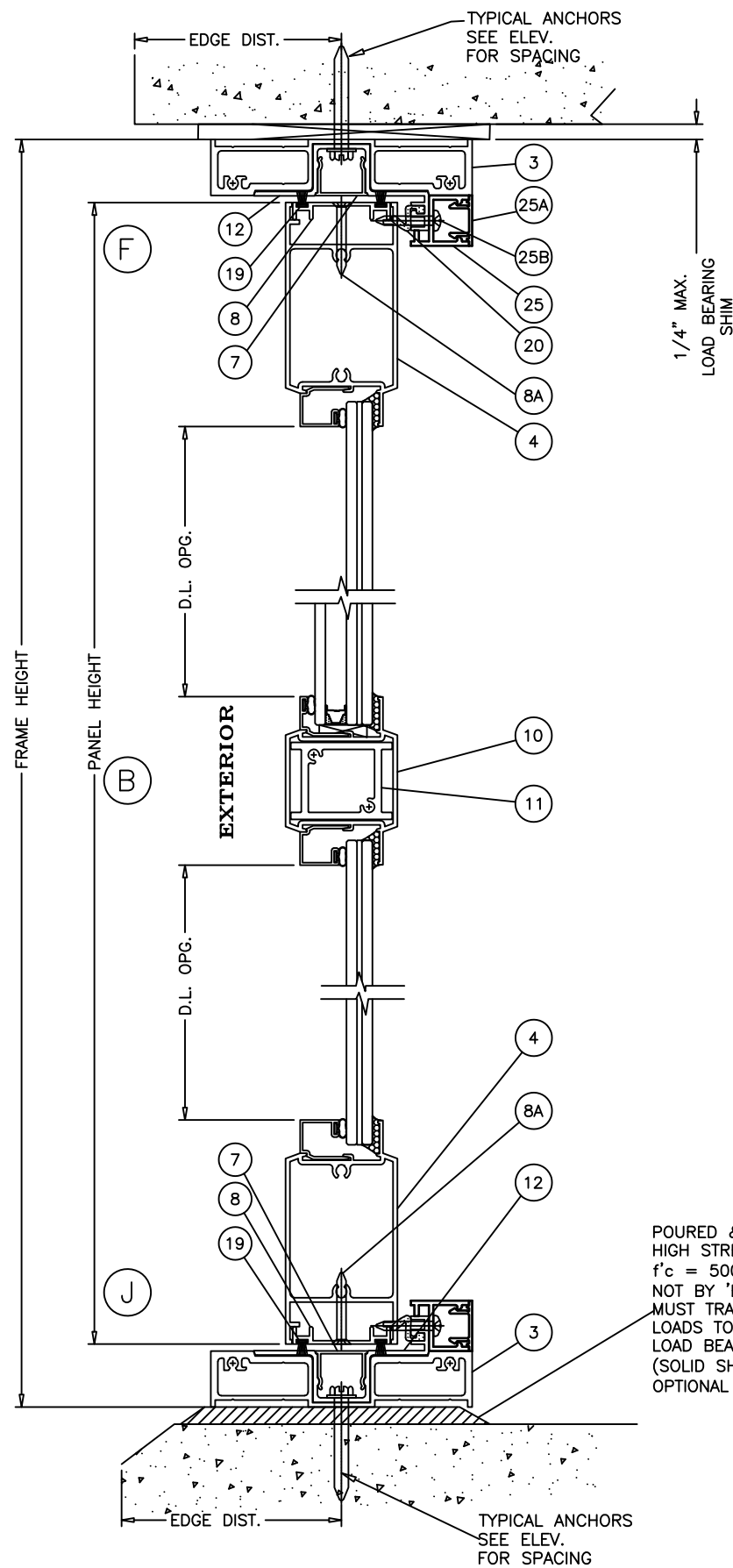
**ECO window systems**  
ECO WINDOW SYSTEMS, LLC.  
8502 N.W. 80th ST., MEDLEY, FL 33166  
TEL. (305) 885-5299 FAX. (305) 885-5902

PREPARED BY A. LYNN MILLER  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

REGISTRATION #29296

| Series          | Desc.           | Title                                                  |
|-----------------|-----------------|--------------------------------------------------------|
| SERIES 1500     | TRANSOM DETAILS | SERIES 1500 ALUM. OUTSWING/INSWING PIVOT DOOR (L.M.I.) |
| 8 OF 14         | Sheet           |                                                        |
| DWG No.         | Rev.            |                                                        |
| PV1500FPA - LMI | A               |                                                        |
| By              | Date            |                                                        |
| A.M.            | 9/07/2022       |                                                        |

| Revision:                        |
|----------------------------------|
| PLACED ANCHORS IN TABLE          |
| FORMAT, ADDED                    |
| ANCHOR HEAD TYPE                 |
| NOTE, REMOVED                    |
| SILICONE AND BACKSTOP ON INSTALL |
| DETAIL                           |



SIDELITE DETAILS



ECO WINDOW SYSTEMS, LLC.  
8502 N.W. 80th ST., MEDLEY, FL 33166  
TEL. (305) 885-5299 FAX. (305) 885-5902

PREPARED BY A. LYNN MILLER  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

REGISTRATION #29296

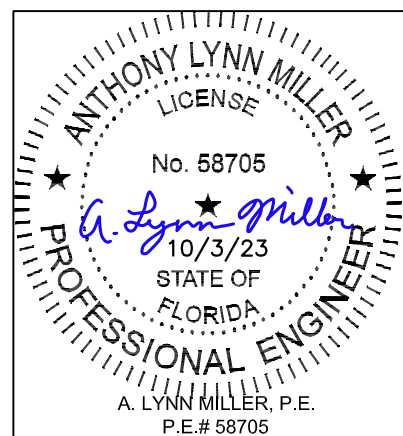
SERIES 1500 ALUM. OUTSWING/INSWING PIVOT DOOR (L.M.I.)

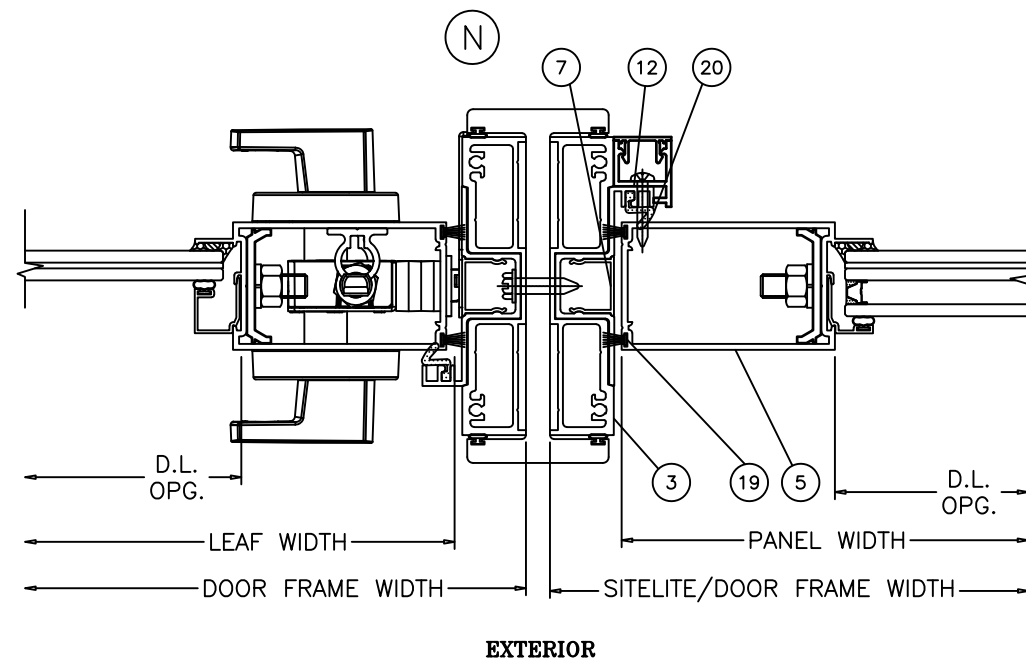
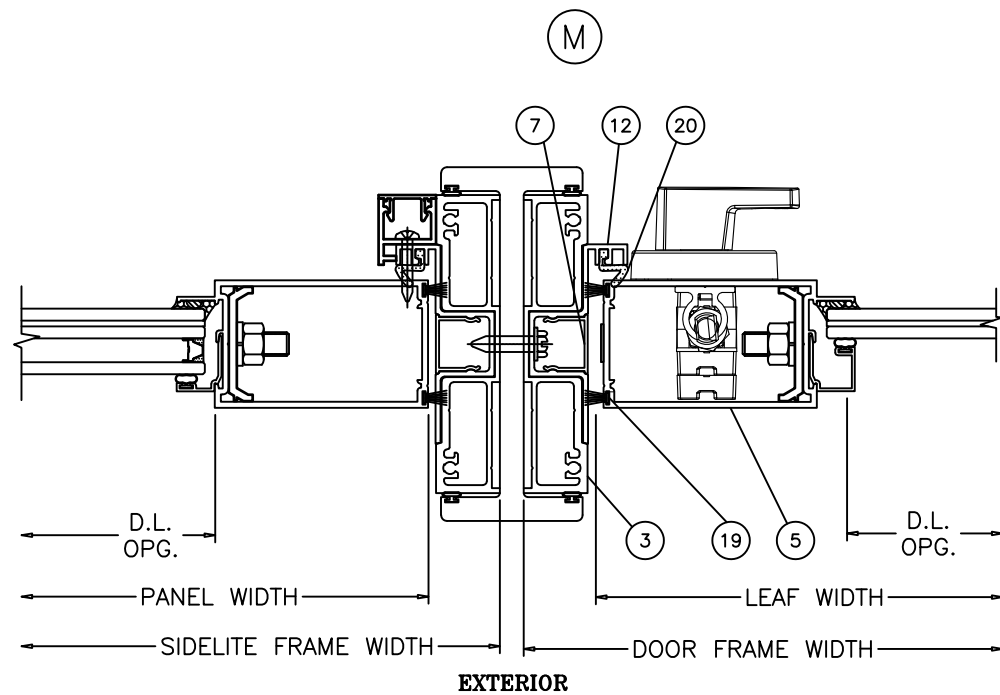
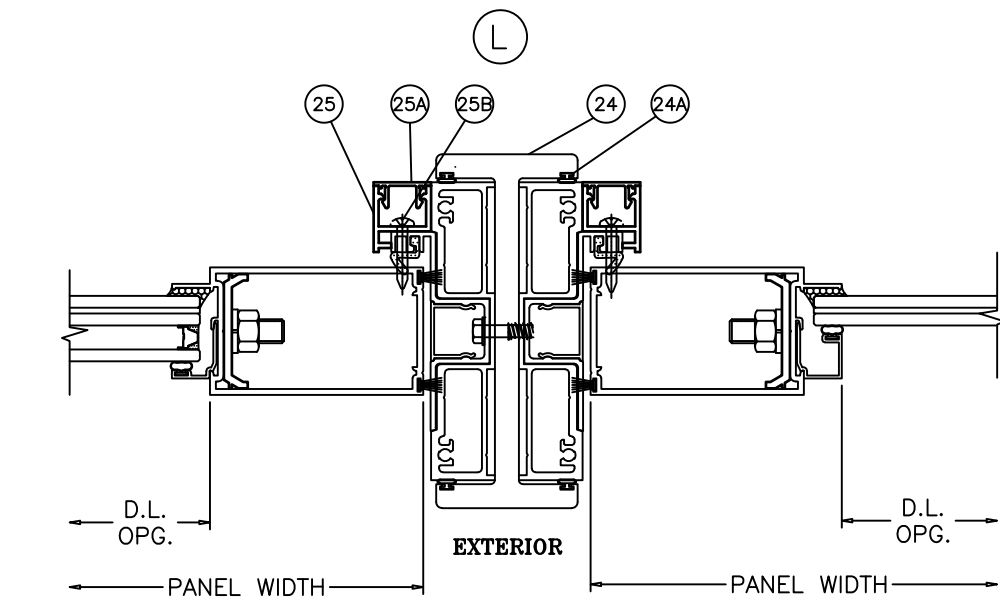
Date 9/07/2022

Drawn By A.M.

| Series      | Desc.            | Sheet   | DWG No.         | Rev. |
|-------------|------------------|---------|-----------------|------|
| SERIES 1500 | SIDELITE DETAILS | 9 OF 14 | PV1500FPA - LMI | A    |

| Revision:                                                                                                    |
|--------------------------------------------------------------------------------------------------------------|
| PLACED ANCHORS IN TABLE FORMAT, ADDED ANCHOR HEAD TYPE NOTE, REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL |

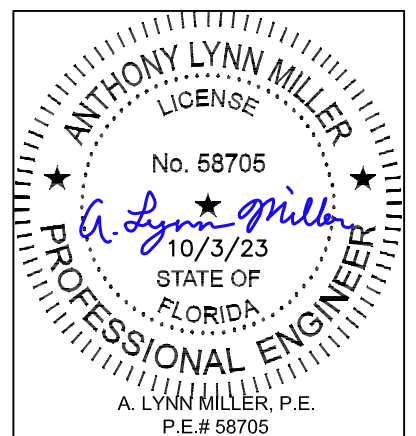




SIDELITE/DOOR MULLION DETAILS

| Revision:                                                                                                    |
|--------------------------------------------------------------------------------------------------------------|
| PLACED ANCHORS IN TABLE FORMAT, ADDED ANCHOR HEAD TYPE NOTE, REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL |

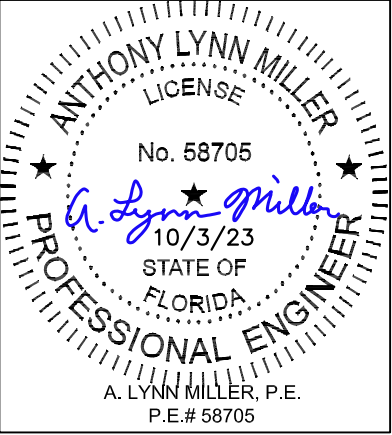
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|-------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------|--|-----------|--|-----------------|--|
| PREPARED BY A. LYNN MILLER<br>1070 TECHNOLOGY DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600                |  | REGISTRATION #29296                                    |  | 9/07/2022 |  | A               |  |
| ECO WINDOW SYSTEMS, LLC.<br>8502 N.W. 80th ST., MEDLEY, FL 33166<br>TEL. (305) 885-5299 FAX. (305) 885-5902 |  | SERIES 1500 ALUM. OUTSWING/INSWING PIVOT DOOR (L.M.I.) |  | Date      |  | Rev.            |  |
| SIDELITE/DOOR MULLIONS DETAILS                                                                              |  | A.M.                                                   |  | By        |  | PV1500FPA - LMI |  |
| SERIES 1500                                                                                                 |  | 10 OF 14                                               |  | DWG       |  | No.             |  |
| Sheet                                                                                                       |  | Title                                                  |  | Desc.     |  | Series          |  |



| ITEM # | PART #       | REQD.    | DESCRIPTION                     | MATERIAL      | MANF./SUPPLIER/REMARKS     |
|--------|--------------|----------|---------------------------------|---------------|----------------------------|
| 1      | E1501        | 1        | DOOR HEADER                     | 6063-T6       | -                          |
| 1A     | E1502        | 1        | DOOR HEADER COVER               | 6063-T6       | -                          |
| 2      | E1508        | 1        | THRESHOLD                       | 6063-T6       | -                          |
| 2A     | E1509        | 1        | THRESHOLD COVER                 | 6063-T6       | -                          |
| 3      | E1510        | 2        | SIDELITE/ TRANSOM FRAME         | 6063-T6       | -                          |
| 4      | E1505        | 2/ PANEL | LEAF TOP & BOTTOM RAIL          | 6063-T6       | -                          |
| 4A     | E1504        | 1        | HI-PROFILE LEAF BOTTOM RAIL     | 6063-T6       | -                          |
| 5      | E908         | 2/ PANEL | LEAF STILE                      | 6063-T6       | -                          |
| 6      | E613         | AS REQD. | LEAF ALIGNMENT CLIP             | 6063-T6       | -                          |
| 7      | E905         | AS REQD. | POCKET COVER                    | 6063-T6       | -                          |
| 8      | E908         | 1/ PANEL | TOP & BOTTOM RAIL SWEEP ADAPTER | 6063-T6       | -                          |
| 8A     | #10 X 1-1/2" | AS REQD. | SWEEP ADAPTER FATENER           | ST. STEEL     | AT 6" FROM EACH END        |
| 9      | E913         | AS REQD. | GLASS STOP (LAM. GLASS)         | 6063-T5       | -                          |
| 9A     | E912         | AS REQD. | GLASS STOP ( INSUL. LAM. GLASS) | 6063-T5       | -                          |
| 10     | E1506        | AS REQD. | MID RAIL                        | 6063-T6       | -                          |
| 11     | E1507        | AS REQD. | SHEAR BLOCK                     | 6063-T6       | -                          |
| 11A    | -            | 2/ BLOCK | SHEAR BLOCK FASTENER            | ST. STEEL     | -                          |
| 12     | E1511        | AS REQD. | FRAME ADAPTER                   | 6063-T6       | -                          |
| 13     | E1503        | AS REQD. | TRANSOM ADAPTER                 | 6063-T6       | -                          |
| 13A    | #10 X 3/4"   | AS REQD. | ADAPTER FASTENER                | ST. STEEL     | AT 6" FROM END & 12" O.C.  |
| 14     | E909         | AS REQD. | LEAF ALIGNMENT CLIP             | 6063-T6       | -                          |
| 15     | E613         | AS REQD. | LEAD CLAMP                      | 6063-T6       | -                          |
| 16     | E223         | AS REQD. | GLAZING GASKET (DUROMETER 70±5) | SANTOPRENE    | ULTRAFAB                   |
| 17     | FLB-50       | AS REQD. | GLASS SPACER                    | SILICONE      | FRANK LOWE RUBBER CO.      |
| 18     | -            | 2/ LITE  | SITTING BLOCKS, AT 1/4 POINTS   | EPDM          | DUROMETER 85±5 SHORE A     |
| 19     | W223412G     | AS REQD. | FIN SEAL PILE W' STRIPPING      | POLYPROPYLENE | ULTRAFAB                   |
| 20     | QW521        | AS REQD. | COMPRESSION W' STRIPPING        | Q-LON         | SCHLEGEL                   |
| 21     | #12 X 1-1/2" | AS REQD. | FRAME AND LEAF ASSEMBLY SCREW   | ST. STEEL     | HWH SMS                    |
| 22     | -            | -        | -                               | -             | -                          |
| 23     | -            | 2/ LEAF  | 3/8" DIA. THREADED ROD          | STEEL         | -                          |
| 24     | E1512        | AS REQD. | 'H' MULLION                     | 6063-T6       | -                          |
| 24A    | -            | AS REQD. | MULLLION W'STRIPPING            | VYNIL         | -                          |
| 25     | -            | AS REQD. | SIDELITE ADAPTER                | 6063-T5       | -                          |
| 25A    | -            | AS REQD. | SIDELITE ADAPTER CAP            | 6063-T5       | -                          |
| 25B    | #10 X 3/4"   | AS REQD. | ADAPTER FASTENER                | ST. STEEL     | AT 6" FROM ENDS & 12" O.C. |
| -      | -            | -        | -                               | -             | -                          |

|                                                                                                              |
|--------------------------------------------------------------------------------------------------------------|
| Revision:                                                                                                    |
| PLACED ANCHORS IN TABLE FORMAT, ADDED ANCHOR HEAD TYPE NOTE, REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL |

|                                                                                              |                     |      |           |      |       |                 |             |       |
|----------------------------------------------------------------------------------------------|---------------------|------|-----------|------|-------|-----------------|-------------|-------|
| PREPARED BY A. LYNN MILLER<br>1070 TECHNOLOGY DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600 | REGISTRATION #29296 | Date | 9/07/2022 | A.M. | Drawn | PV1500FPA - LMI | Rev.        | A     |
|                                                                                              |                     |      |           |      |       |                 | DWG         | No.   |
|                                                                                              |                     |      |           |      |       |                 | 11 OF 14    | Sheet |
|                                                                                              |                     |      |           |      |       |                 | SERIES 1500 |       |



**DOOR HARDWARE:**

3 POINT LOCKS AT LOCK STILE

3 POINT LOCK ASSEMBLY BY ' INTERLOCK USA INC.'  
WITH LEVER TYPE HANDLE AT 42" FROM BOTTOM  
KEY OPERATOR ON EXTERIOR AN THUMB TURN INTERIOR  
(2) LOCKING POINTS ENGAGING AT INACTIVE LEAF AT STRIKE PLATE  
1/2" DIA. THROW BOLT (1) AT TOP ENGAGING FRAME HEAD  
AND (1) AT BOTTOM ENGAGING FRAME SILL  
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONCEALED  
VERTICAL RODS  
FASTENED TO ACTIVE LEAF LOCK STILE WITH  
(2) 10-24 X 1-7/8" FH MACHINE SCREWS  
SURFACE MOUNT METALIC STRIKE PLATE AT 47" FROM BOTTOM  
FACING LOCKING POINTS  
FASTENED TO INACTIVE LEAF WITH  
(8) #8 X 3/4" FH SELF DRILLING SCREWS

FLUSH BOLT AT PIVOT STILE

2 POINT LOCK ASSEMBLY BY ' INTERLOCK USA INC.'  
WITH LEVER TYPE HANDLE AT 42" FROM BOTTOM  
1/2" DIA. THROW BOLTS AT TOP ENGAGING FRAME  
HEAD AND FRAME SILL  
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONCEALED  
VERTICAL RODS  
FASTENED TO STILE WITH  
(2) 8-32 X X1-18" FH MACHINE SCREWS

KEEPERS FOR THROW BOLT AT SILL

SURFACE MOUNT ST. STEEL KEEPERS  
EACH FASTENED TO FRAME SILL WITH  
(2) #8 X 2" FH SMS

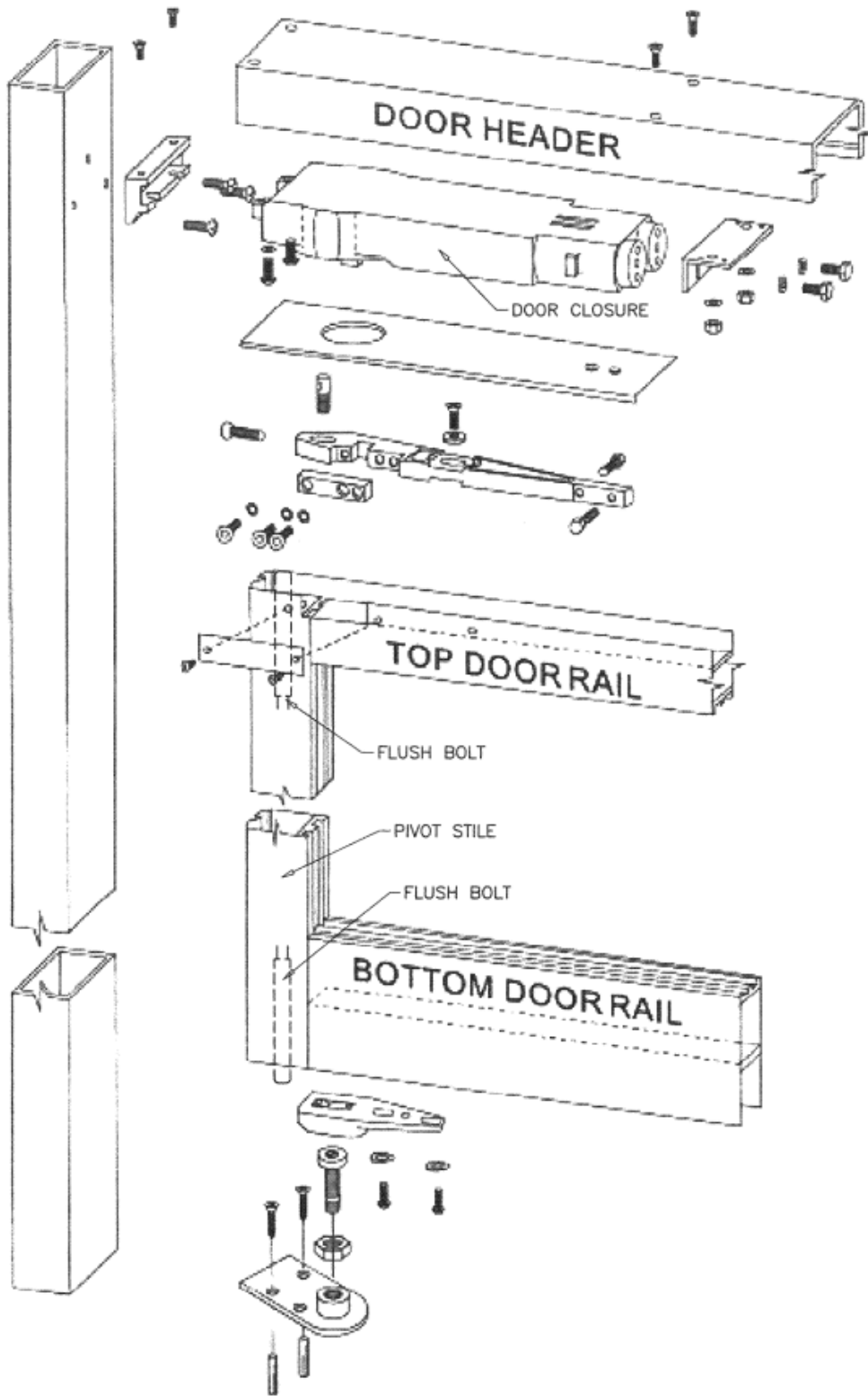
PIVOTS AT PIVOT STILE

R500 CLOSER  
ATTACHED TO HEADER WITH (4) 1/4-20 X 1-1/4" PFH MACHINE SCREWS.  
RTS 8852 BOTTOM PIVOT ATTACHED TO FRAME SILL WITH  
(2) #12 X 5/8" SELF DRILLING SCREWS

ELECTRICAL FUNCTION IS NOT PART OF THE APPROVAL.

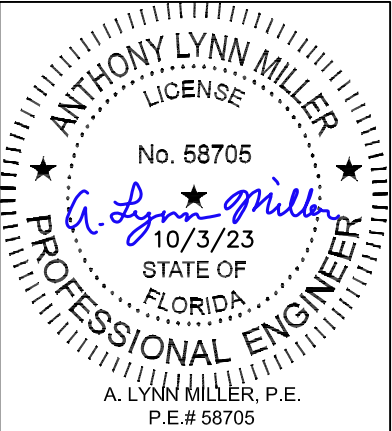
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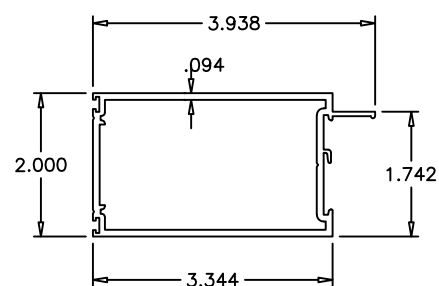
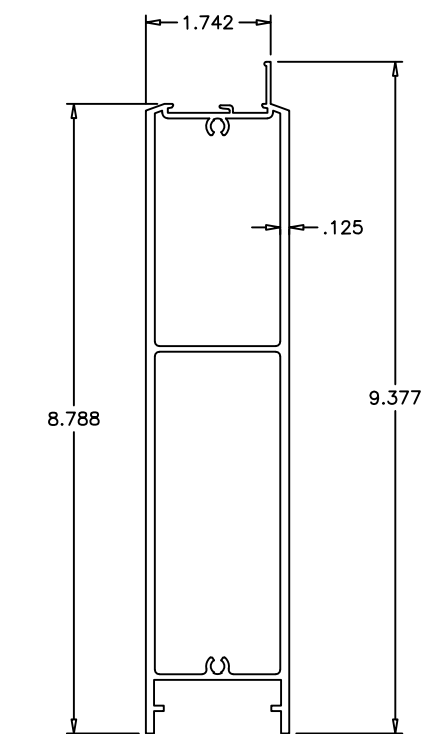
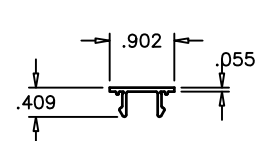
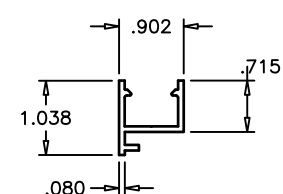
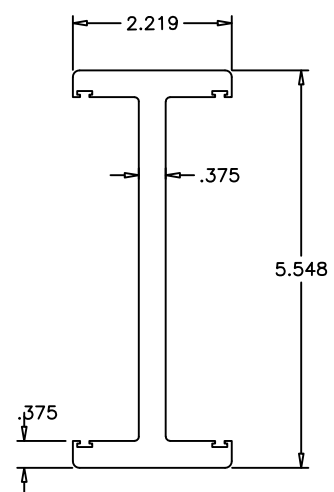
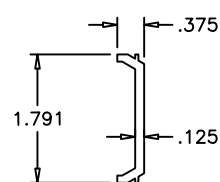
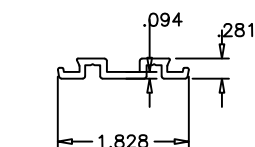
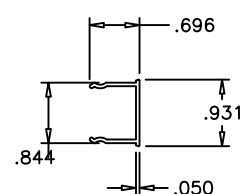
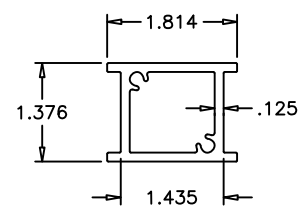
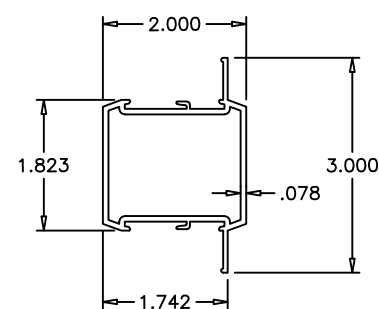
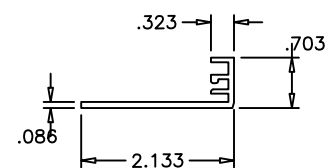
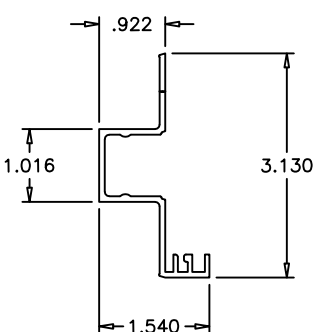
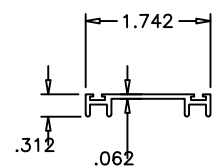
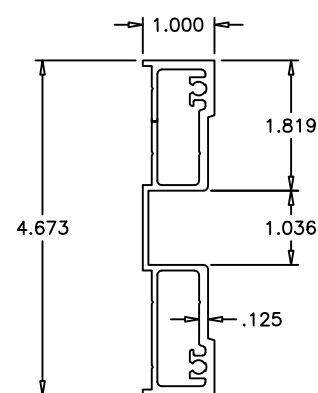
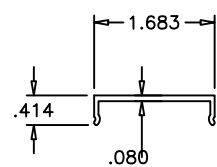
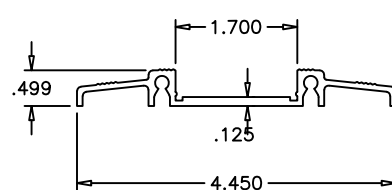
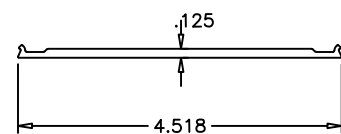
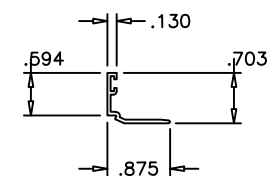
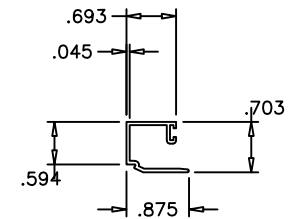
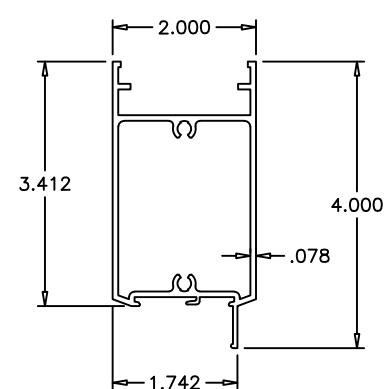
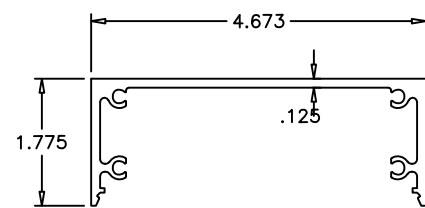
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH  
'SCHNEE-MOREHEAD 5504' SEAM SEALER



| Revision:    |
|--------------|
| PLACED       |
| ANCHORS IN   |
| TABLE        |
| FORMAT,      |
| ADDED        |
| ANCHOR       |
| HEAD TYPE    |
| NOTE,        |
| REMOVED      |
| SILICONE AND |
| BACKSTOP ON  |
| INSTALL      |
| DETAIL       |

|                                                                                                                                                                                                                              |  |                                                                                              |  |          |  |          |  |                 |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------|--|----------|--|----------|--|-----------------|--|
| <br><b>window systems</b><br>ECO WINDOW SYSTEMS, LLC.<br>8502 N.W. 80th ST. MEDLEY, FL 33166<br>TEL. (305) 885-5299 FAX. (305) 885-5902 |  | PREPARED BY A. LYNN MILLER<br>1070 TECHNOLOGY DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600 |  |          |  |          |  |                 |  |
|                                                                                                                                                                                                                              |  | REGISTRATION #29296                                                                          |  |          |  |          |  |                 |  |
|                                                                                                                                                                                                                              |  |                                                                                              |  |          |  |          |  |                 |  |
| Title                                                                                                                                                                                                                        |  | SERIES 1500 ALUM. OUTSWING/INSWING PIVOT DOOR (L.M.I.)                                       |  |          |  | Date     |  | 9/07/2022       |  |
| Series Desc.                                                                                                                                                                                                                 |  | HARDWARE DETAILS                                                                             |  |          |  | Drawn By |  | A.M.            |  |
| Series                                                                                                                                                                                                                       |  | SERIES 1500                                                                                  |  | 12 OF 14 |  | DWG No.  |  | PV1500FPA - LMI |  |
| Sheet                                                                                                                                                                                                                        |  |                                                                                              |  |          |  |          |  | Rev.            |  |
|                                                                                                                                                                                                                              |  |                                                                                              |  |          |  |          |  | A               |  |





|                  |                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Revision:</b> | PLACED ANCHORS IN TABLE FORMAT, ADDED ANCHOR HEAD TYPE NOTE, REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL |
|------------------|--------------------------------------------------------------------------------------------------------------|

PREPARED BY A. LYNN MILLER  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

REGISTRATION #29296



|      |           |
|------|-----------|
| Date | 9/07/2022 |
|------|-----------|

|    |      |
|----|------|
| By | A.M. |
|----|------|

|   |                 |
|---|-----------------|
| 9 | PV1500FPA - LMI |
|---|-----------------|

13 OF 14

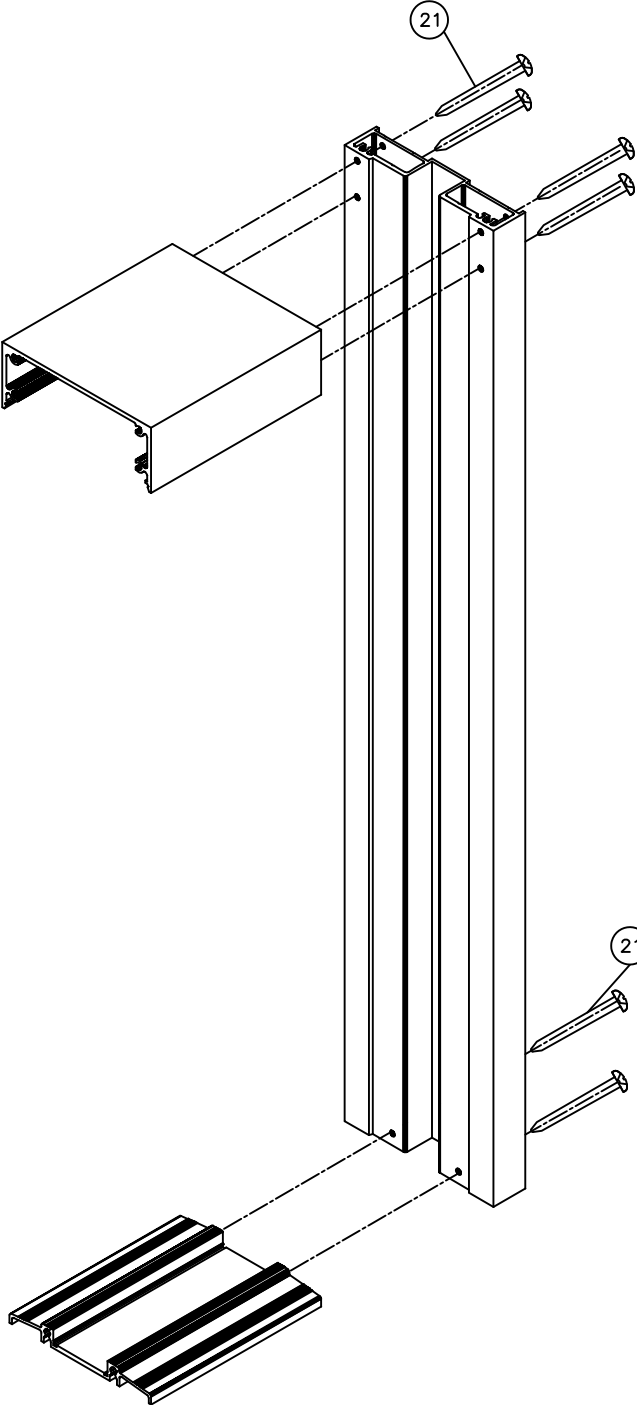
SERIES 1500

|   |
|---|
| A |
|---|

ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
*A. Lynn Miller*  
10/3/23  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

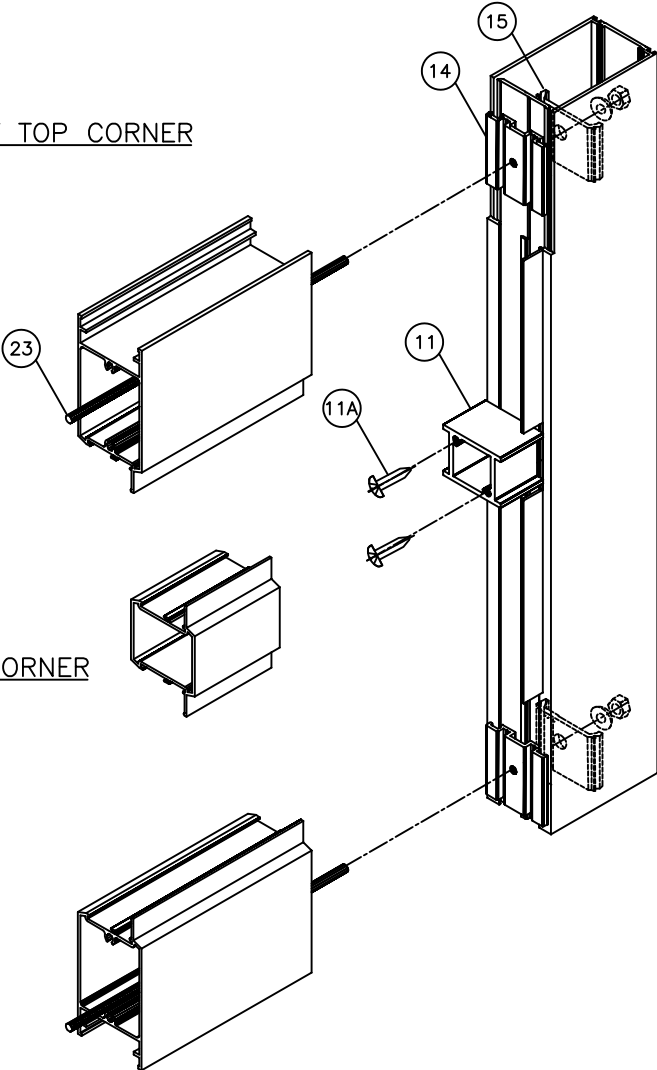
A. LYNN MILLER, P.E.  
P.E.# 58705

DOOR FRAME TOP CORNER

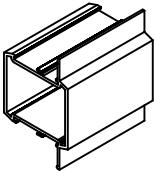


DOOR FRAME BOTTOM CORNER

LEAF TOP CORNER

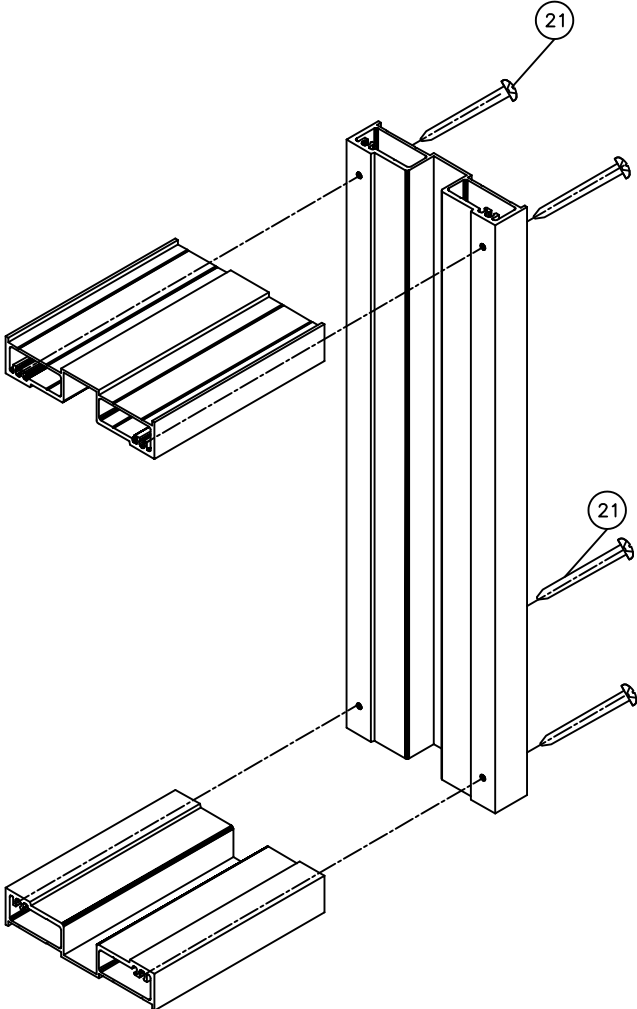


MID RAIL CORNER

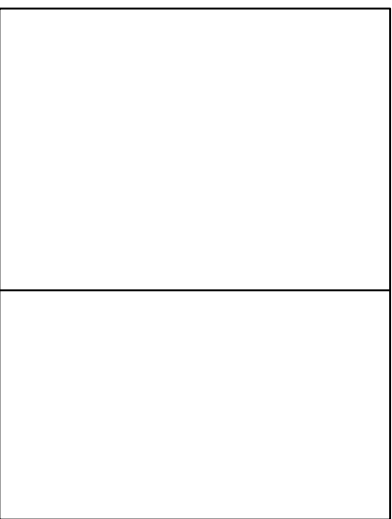


LEAF BOTTOM CORNER

TRANSOM & SIDELITE FRAME TOP CORNER



TRANSOM & SIDELITE FRAME BOTTOM CORNER



|           |              |
|-----------|--------------|
| Revision: | PLACED       |
|           | ANCHORS IN   |
| TABLE     | FORMAT,      |
|           | ADDED        |
| ANCHOR    | HEAD TYPE    |
|           | NOTE,        |
| REMOVED   | SILICONE AND |
|           | BACKSTOP ON  |
| INSTALL   | DETAIL       |
|           |              |

|                                                                                                             |                                                        |                         |          |                 |       |
|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------|----------|-----------------|-------|
| PREPARED BY A. LYNN MILLER<br>1070 TECHNOLOGY DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600                | REGISTRATION #29296                                    | 9/07/2022               | A.M.     | PV1500FPA - LMI | A     |
|                                                                                                             |                                                        |                         |          |                 |       |
| ECO WINDOW SYSTEMS, LLC.<br>8502 N.W. 80th ST., MEDLEY, FL 33166<br>TEL. (305) 885-5299 FAX. (305) 885-5902 | SERIES 1500 ALUM. OUTSWING/INSWING PIVOT DOOR (L.M.I.) | CORNER ASSEMBLY DETAILS | 14 OF 14 | SERIES 1500     | Sheet |
|                                                                                                             |                                                        |                         |          |                 |       |
| ECO WINDOW SYSTEMS, LLC.<br>8502 N.W. 80th ST., MEDLEY, FL 33166<br>TEL. (305) 885-5299 FAX. (305) 885-5902 | SERIES 1500 ALUM. OUTSWING/INSWING PIVOT DOOR (L.M.I.) | CORNER ASSEMBLY DETAILS | 14 OF 14 | SERIES 1500     | Sheet |
|                                                                                                             |                                                        |                         |          |                 |       |

