

C.T.WINDOWS LLC. dba ARCHITECTURAL ALUMINUM TECHNIQUES  
"SERIES 500" THERMAL FIXED ALUMINUM WINDOW - N.I.  
(NON-HVHZ)

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION FBC 2023/ 9TH EDITION FBC 2026. FOR USED OUTSIDE OF HVHZ AREA (NON-HVHZ).
- WINDOW ARE RATED FOR NON-IMPACT. INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.
- DESIGN LOAD IN THIS DOCUMENT IS ALLOWABLE DESIGN LOAD. PROJECT ULTIMATE DESIGN LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT.
- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON ELEVATIONS.
- 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 8TH EDITION FBC 2023/ 9TH EDITION FBC 2026 SECTION AS APPLICABLE.
- ALL SUBSTRATE BY OTHERS MUST SUPPORT LOADS IMPOSED BY WINDOW SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.
- 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.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.
- FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 35, OR EQUIVALENT CORROSION RESISTANCE).
- CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).

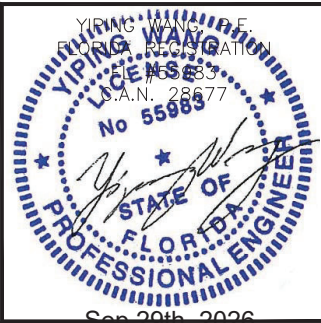
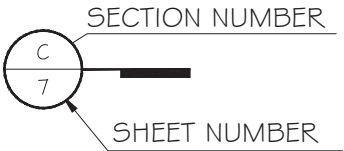
INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.
- STEP 2: SEE TYPICAL ELEVATION ON SHEET E1.
- STEP 3: SEE CHART ON SHEET G1 FOR APPROVED GLASS TYPES AND DESIGN LOAD CAPACITIES BASED ON APPLICABLE WIND DURATION.
- STEP 4: CHECK UN-REINFORCED AND REINFORCED MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET M1. THE CAPACITY SHOULD EXCEED THE JOB REQUIRED DESIGN LOAD.
- STEP 5: ANCHOR OPTION SEE SHEET A1. ANCHOR SPACING FOR WINDOW SEE SHEET E1. MULLION CLIP ANCHOR SEE SHEET D2.
- STEP 6: THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

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



Sep 29th, 2026

| REVISIONS |          |
|-----------|----------|
| NO.       | DATE     |
| R2        | 11.17.23 |
| R3        | 09.29.26 |
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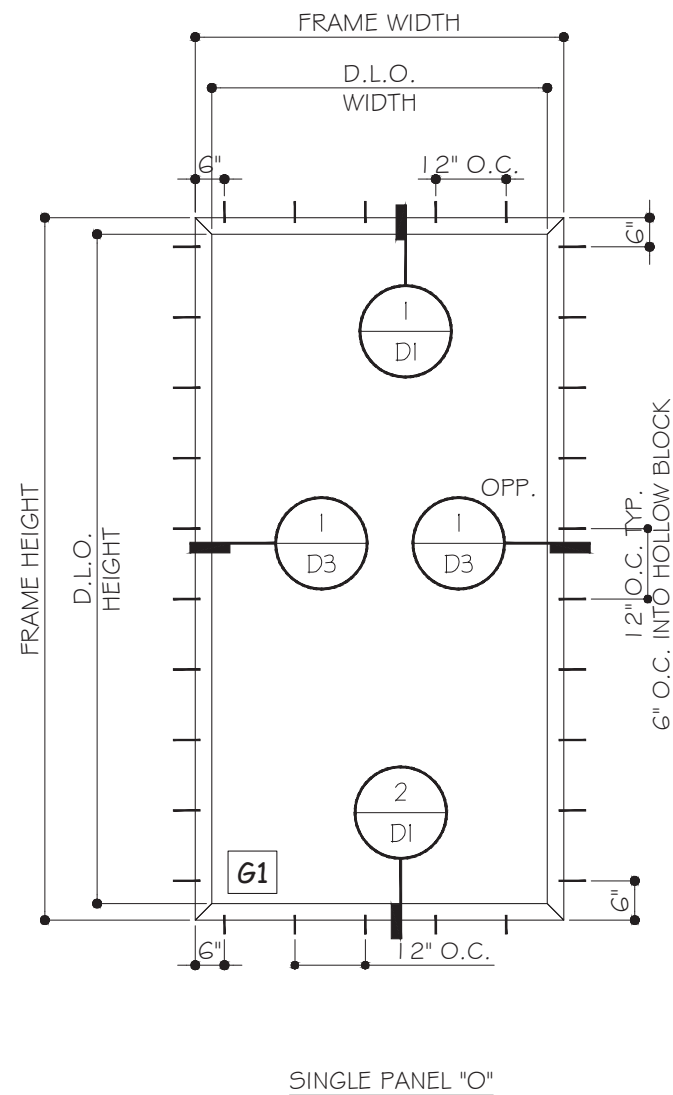
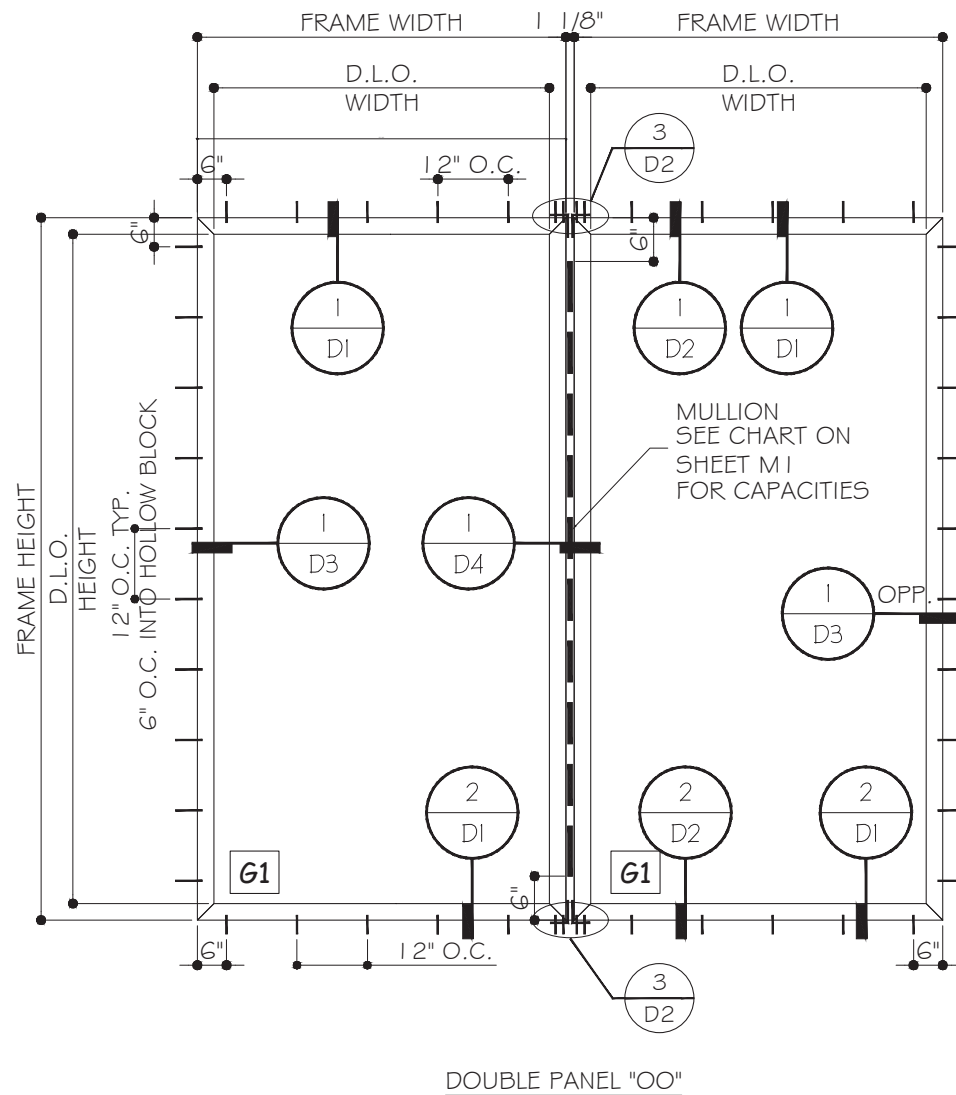
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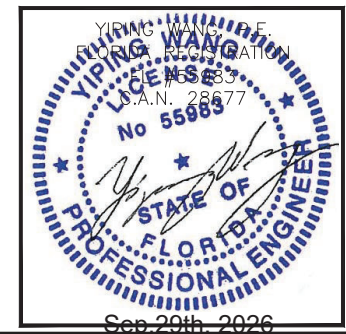
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ARCHITECTURAL ALUMINUM TECHNIQUES  
9195 BOGGY CREEK RD #1  
ORLANDO, FL 32824  
P: 407-466-7423

|                        |            |
|------------------------|------------|
| FL39629.1              |            |
| DATE                   | 09.29.2026 |
| SCALE                  | AS NOTED   |
| DRAWN                  | JAMES      |
| PROJECT                |            |
| C1                     |            |
| DRAWING NO.<br>AD21-19 |            |
| 1 OF 12                |            |



TYPICAL EXTERIOR ELEVATIONS



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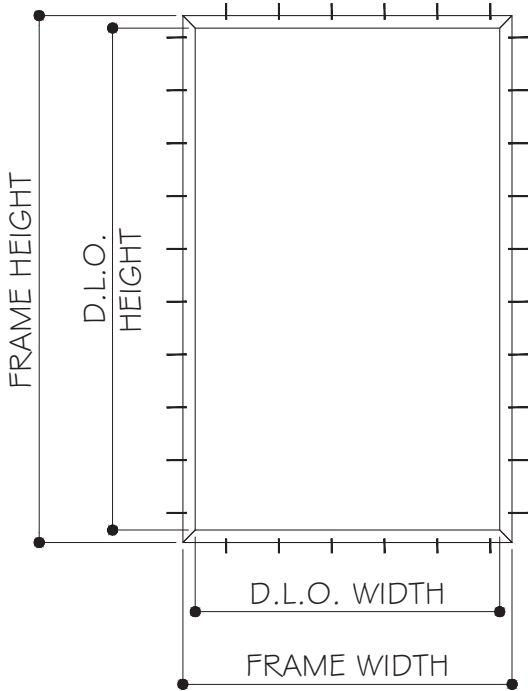
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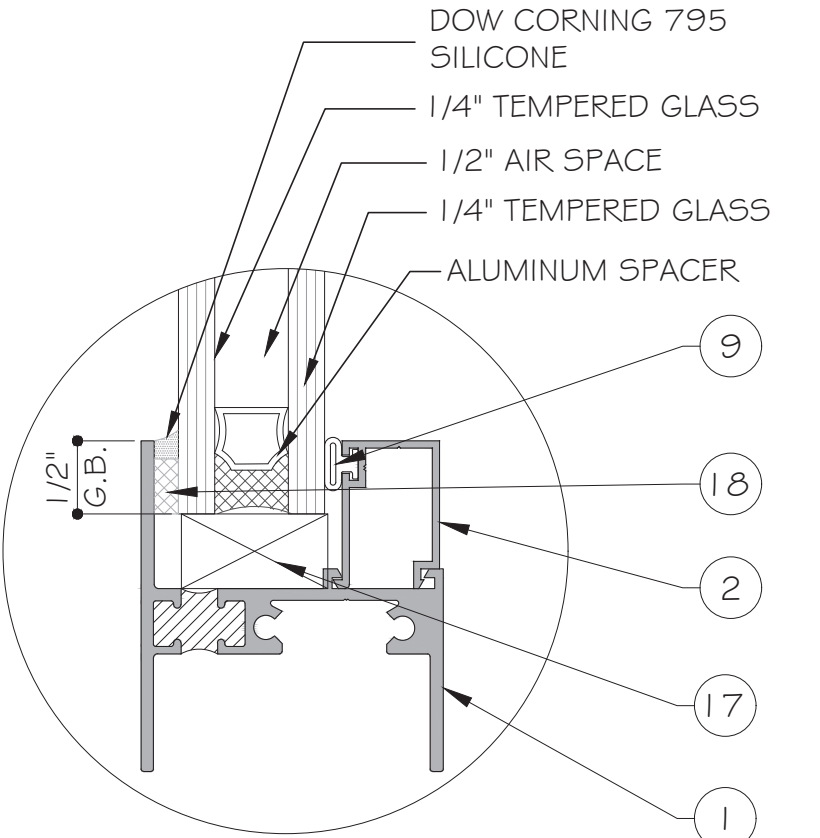
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| FL39629.1   |            |
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| PROJECT     |            |
| E1          |            |
| DRAWING NO. |            |
| AD21-19     |            |
| 2 OF 12     |            |

| ALLOWABLE DESIGN LOAD CAPACITY FOR SINGLE UNIT |                       |               |
|------------------------------------------------|-----------------------|---------------|
| NOM. DIMENSION                                 |                       | Pd (PSF)      |
| FRAME WIDTH.<br>(IN)                           | FRAME HEIGHT.<br>(IN) | EXT(+) INT(-) |
| 78.0                                           | 42.0                  | 100.0         |
|                                                | 48.0                  | 99.0          |
|                                                | 54.0                  | 89.0          |
|                                                | 60.0                  | 80.0          |
| 84.0                                           | 42.0                  | 100.0         |
|                                                | 48.0                  | 96.0          |
|                                                | 54.0                  | 89.0          |
|                                                | 60.0                  | 80.0          |
| 90.0                                           | 42.0                  | 100.0         |
|                                                | 48.0                  | 94.0          |
|                                                | 54.0                  | 87.0          |
|                                                | 60.0                  | 80.0          |
| 96.0                                           | 42.0                  | 100.0         |
|                                                | 48.0                  | 92.0          |
|                                                | 54.0                  | 85.0          |
|                                                | 60.0                  | 80.0          |
| 102.0                                          | 36.0                  | 100.0         |
|                                                | 42.0                  | 99.0          |
|                                                | 48.0                  | 90.0          |
|                                                | 54.0                  | 83.0          |
| 108.0                                          | 36.0                  | 100.0         |
|                                                | 42.0                  | 98.0          |
|                                                | 48.0                  | 88.0          |
| 114.0                                          | 36.0                  | 100.0         |
|                                                | 42.0                  | 96.0          |
|                                                | 48.0                  | 87.0          |
| 120.0                                          | 36.0                  | 100.0         |
|                                                | 42.0                  | 95.0          |
|                                                | 48.0                  | 86.0          |

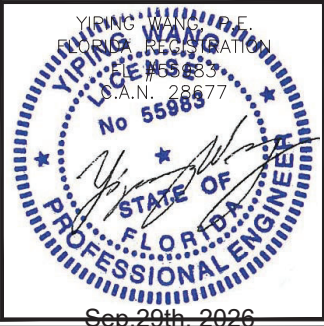


D.L.O. WIDTH = FRAME WIDTH - 4 1/2"

D.L.O. HEIGHT = FRAME HEIGHT - 4 1/2"



NOTE:  
GLASS COMPLIES WITH ASTM E 1300-16  
OR 24 (3 SEC. GUSTS).



| REVISIONS |  | NO. | DATE     | DESCRIPTION |
|-----------|--|-----|----------|-------------|
|           |  | R2  | 11.17.23 | FBC 2023    |
|           |  | R3  | 09.29.26 | FBC 2026    |

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| SCALE   | AS NOTED   |
| DRAWN   | JAMES      |
| PROJECT |            |

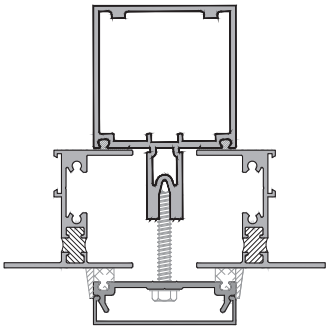
G1

DRAWING NO.  
AD21-19

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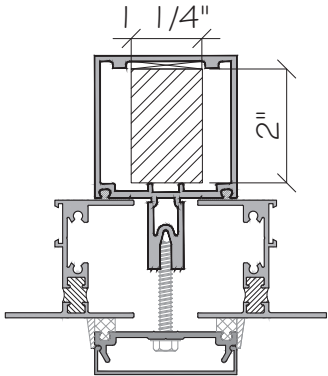
| MULLION LOAD CAPACITY - (PSF) |             |                      |        |                   |        |
|-------------------------------|-------------|----------------------|--------|-------------------|--------|
| FH<br>(INCH)                  | W<br>(INCH) | M1<br>WITHOUT REINF. |        | M2<br>WITH REINF. |        |
|                               |             | EXT(+)               | INT(-) | EXT(+)            | INT(-) |
| 78.00                         | 30.0        | 100                  | 100    | 100               | 100    |
|                               | 36.0        | 100                  | 100    | 100               | 100    |
|                               | 42.0        | 89                   | 89     | 100               | 100    |
|                               | 48.0        | 81                   | 81     | 100               | 100    |
|                               | 54.0        | 75                   | 75     | 100               | 100    |
|                               | 60.0        | 70                   | 70     | 100               | 100    |
| 84.00                         | 30.0        | 100                  | 100    | 100               | 100    |
|                               | 36.0        | 87                   | 87     | 100               | 100    |
|                               | 42.0        | 76                   | 76     | 100               | 100    |
|                               | 48.0        | 68                   | 68     | 100               | 100    |
|                               | 54.0        | 63                   | 63     | 100               | 100    |
|                               | 60.0        | 59                   | 59     | 98                | 98     |
| 90.00                         | 30.0        | 88                   | 88     | 100               | 100    |
|                               | 36.0        | 75                   | 75     | 100               | 100    |
|                               | 42.0        | 65                   | 65     | 100               | 100    |
|                               | 48.0        | 59                   | 59     | 100               | 100    |
|                               | 54.0        | 54                   | 54     | 93                | 93     |
|                               | 60.0        | 50                   | 50     | 88                | 88     |
| 96.00                         | 30.0        | 76                   | 76     | 100               | 100    |
|                               | 36.0        | 64                   | 64     | 100               | 100    |
|                               | 42.0        | 56                   | 56     | 100               | 100    |
|                               | 48.0        | 51                   | 51     | 89                | 89     |
|                               | 54.0        | 46                   | 46     | 82                | 82     |
|                               | 60.0        | 43                   | 43     | 76                | 76     |
| 102.0                         | 30.0        | 63                   | 63     | 100               | 100    |
|                               | 36.0        | 53                   | 53     | 94                | 94     |
|                               | 42.0        | 47                   | 47     | 82                | 82     |
|                               | 48.0        | 42                   | 42     | 74                | 74     |
|                               | 54.0        | 38                   | 38     | 67                | 67     |
| 108.0                         | 30.0        | 53                   | 53     | 93                | 93     |
|                               | 36.0        | 45                   | 45     | 79                | 79     |
|                               | 42.0        | 39                   | 39     | 69                | 69     |
|                               | 48.0        | 35                   | 35     | 61                | 61     |

| MULLION LOAD CAPACITY - (PSF) |             |                      |        |                   |        |
|-------------------------------|-------------|----------------------|--------|-------------------|--------|
| FH<br>(INCH)                  | W<br>(INCH) | M1<br>WITHOUT REINF. |        | M2<br>WITH REINF. |        |
|                               |             | EXT(+)               | INT(-) | EXT(+)            | INT(-) |
| 114.0                         | 30.0        | 45                   | 45     | 79                | 79     |
|                               | 36.0        | 38                   | 38     | 67                | 67     |
|                               | 42.0        | 33                   | 33     | 58                | 58     |
|                               | 48.0        | 29                   | 29     | 52                | 52     |
| 120.0                         | 30.0        | 38                   | 38     | 68                | 68     |
|                               | 36.0        | 32                   | 32     | 57                | 57     |
|                               | 42.0        | 28                   | 28     | 50                | 50     |
|                               | 48.0        | 25                   | 25     | 44                | 44     |



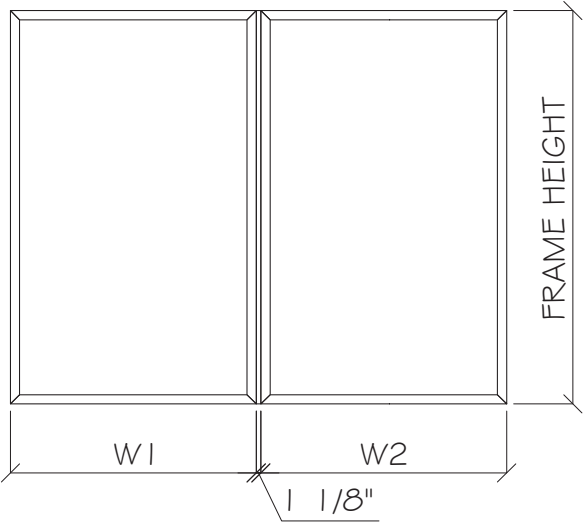
M1

|         |         |         |
|---------|---------|---------|
| M1      | Ix IN^4 | Sx IN^3 |
| MULLION | 3.153   | 1.6222  |



M2

|                     |         |         |
|---------------------|---------|---------|
| M2                  | Ix IN^4 | Sx IN^3 |
| MULLION             | 3.153   | 1.6222  |
| REINF.<br>(STEEL)   | 0.833   | 0.833   |
| TOTAL<br>(IN ALUM.) | 5.5695  |         |



WIDTH AT MULLION:

$$W = \frac{W1 + W2}{2} + 1\ 1/8"$$



| REVISIONS |          |             |  |
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| R3        | 09.29.26 | FBC 2026    |  |
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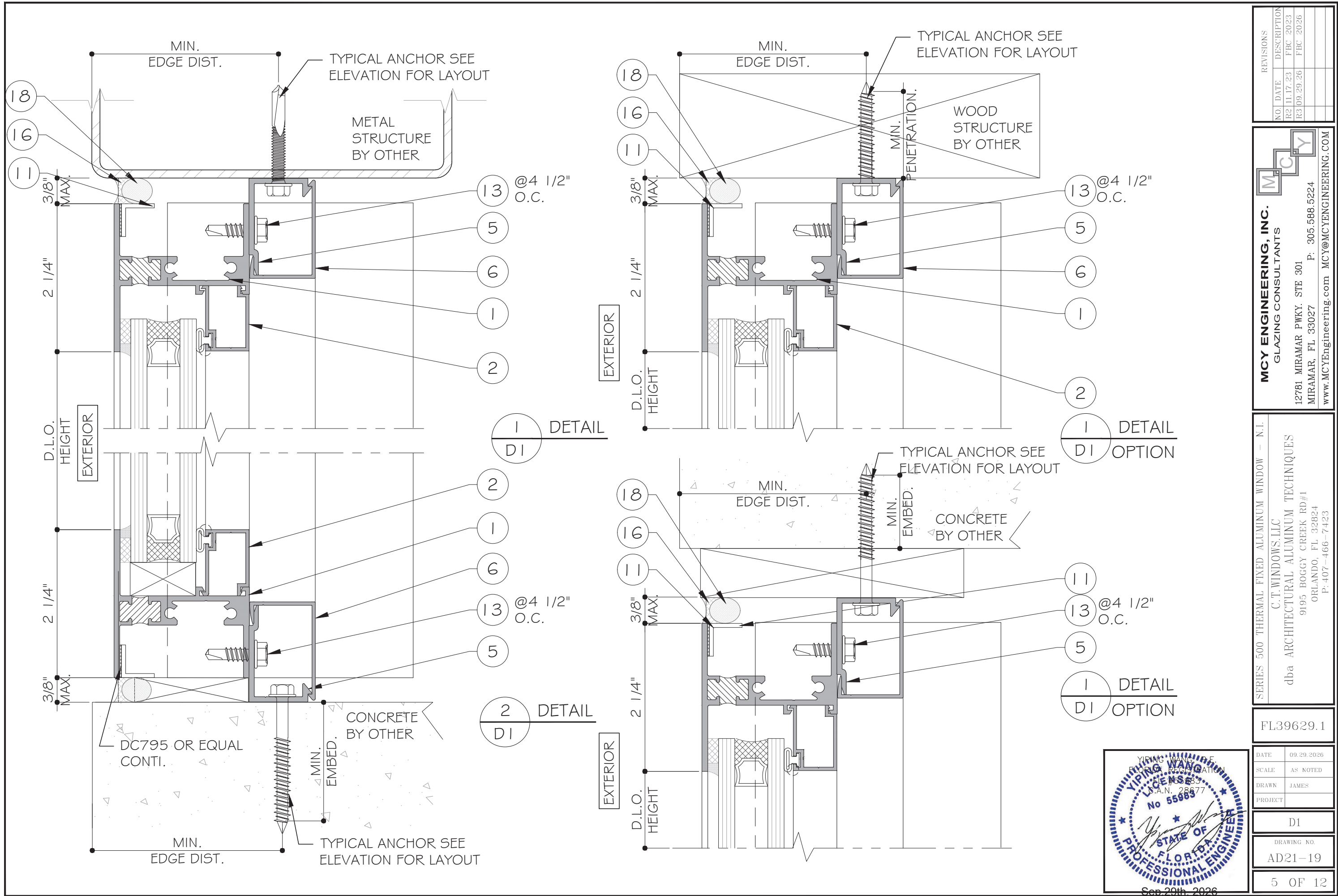
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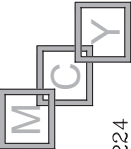
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| SCALE   | AS NOTED   |
| DRAWN   | JAMES      |
| PROJECT |            |

M1

|             |
|-------------|
| DRAWING NO. |
| AD21-19     |
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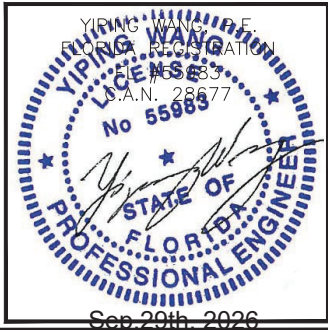
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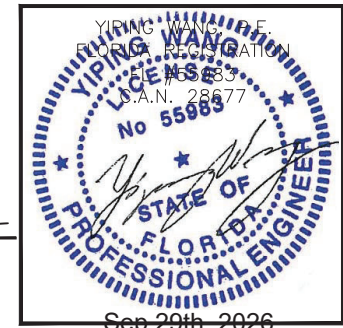
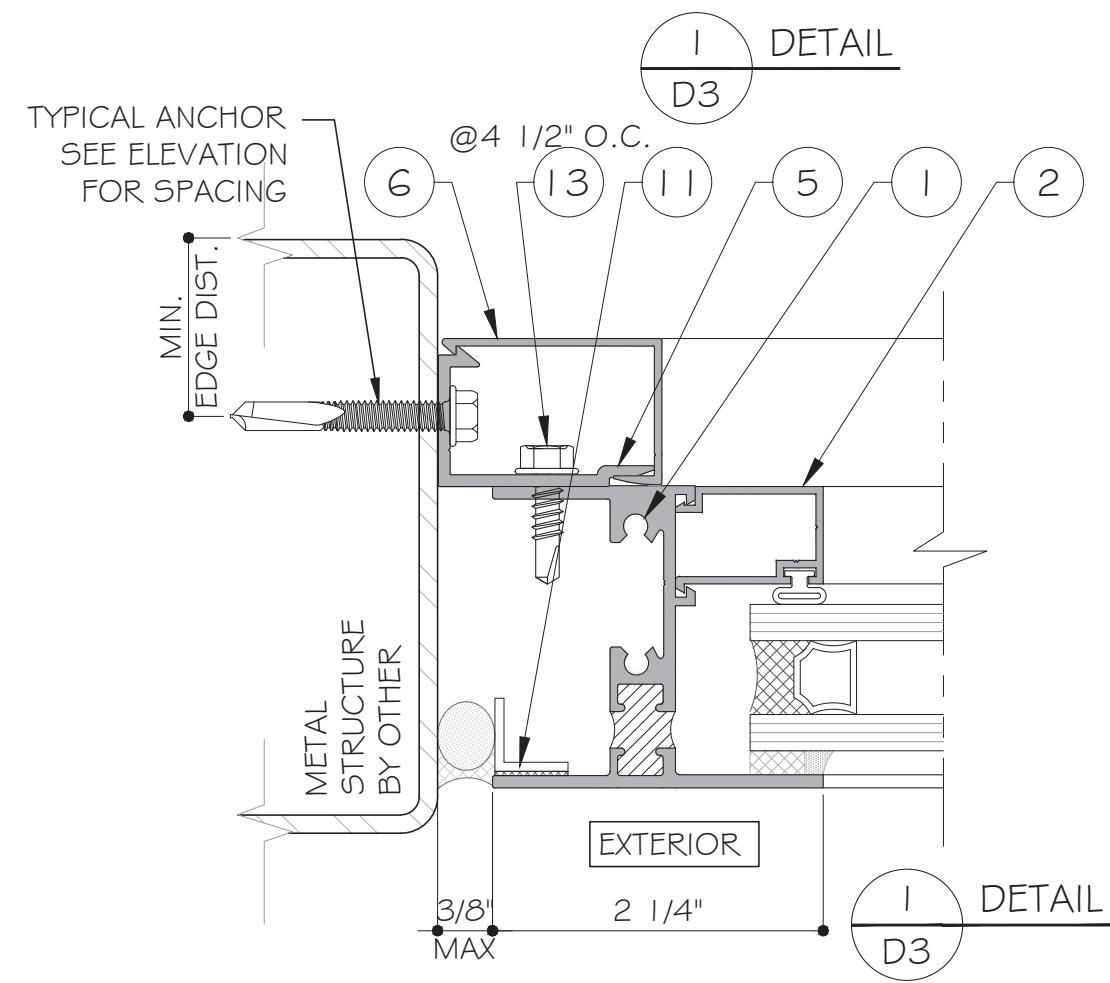
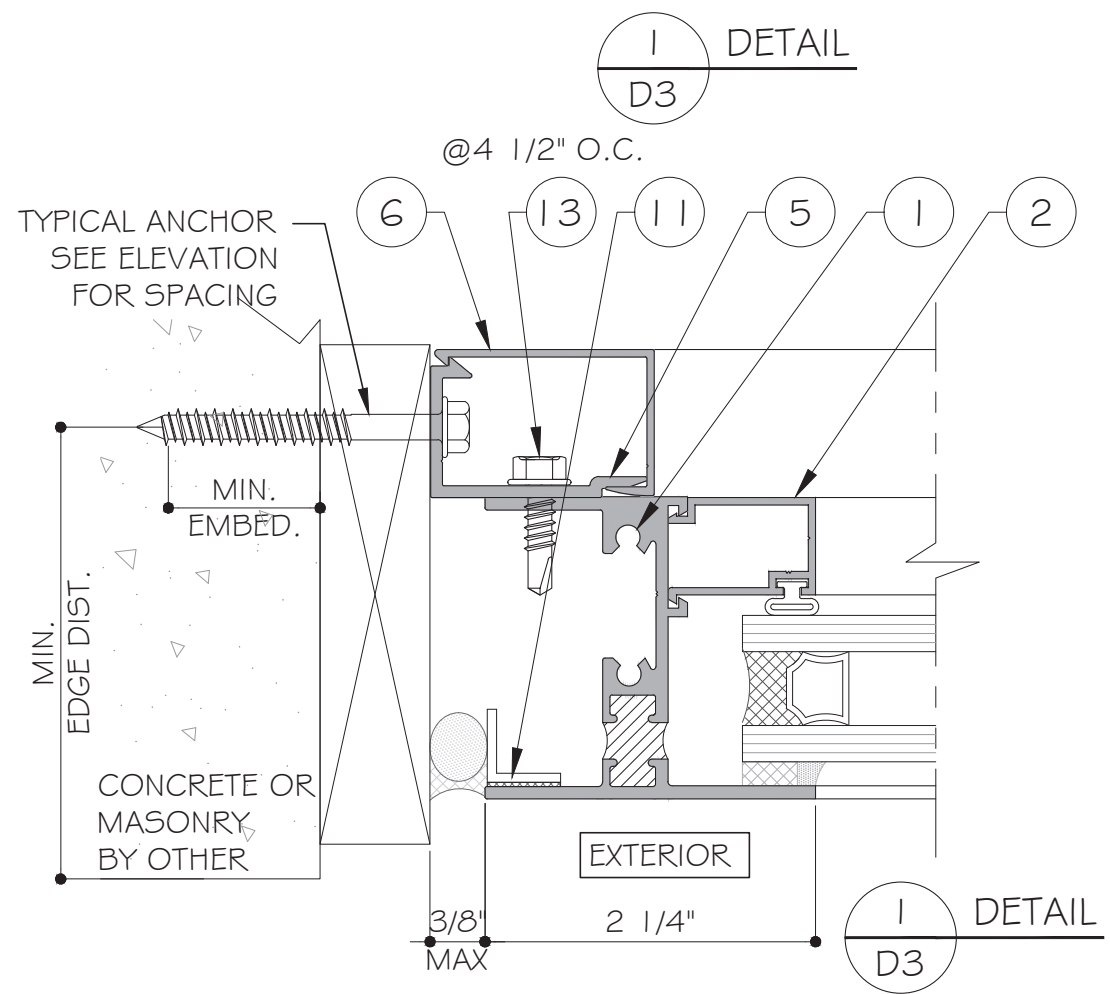
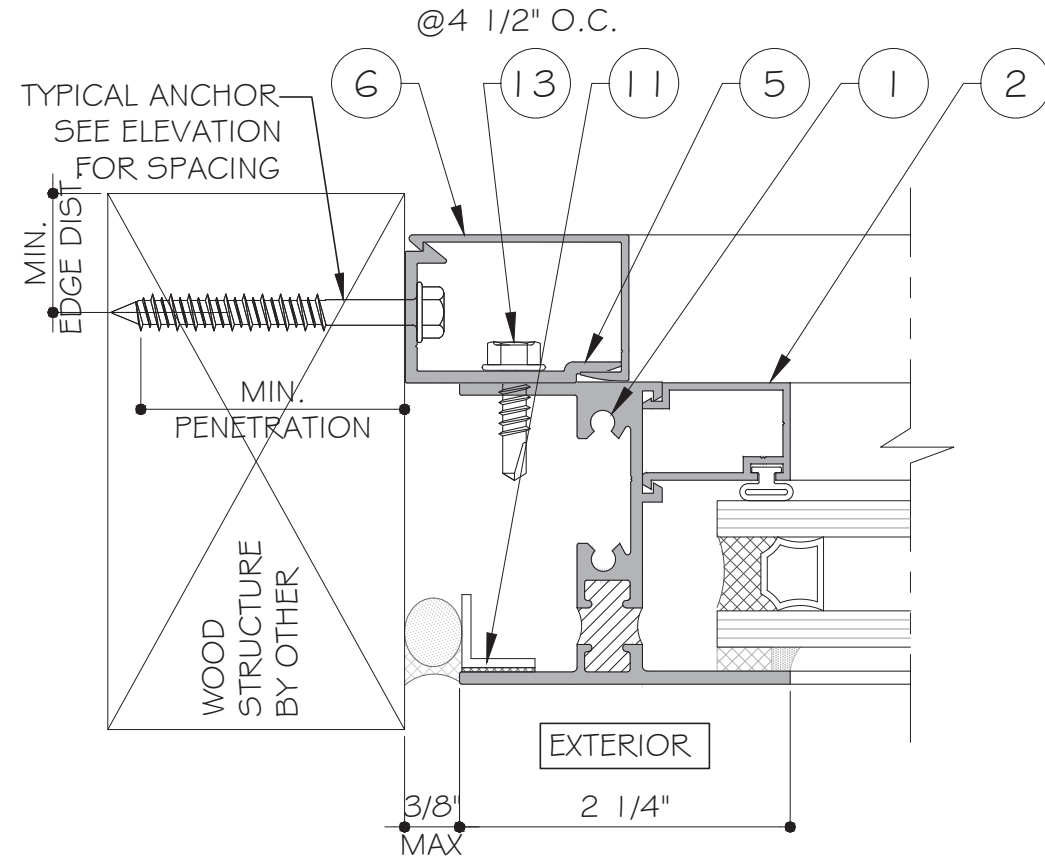
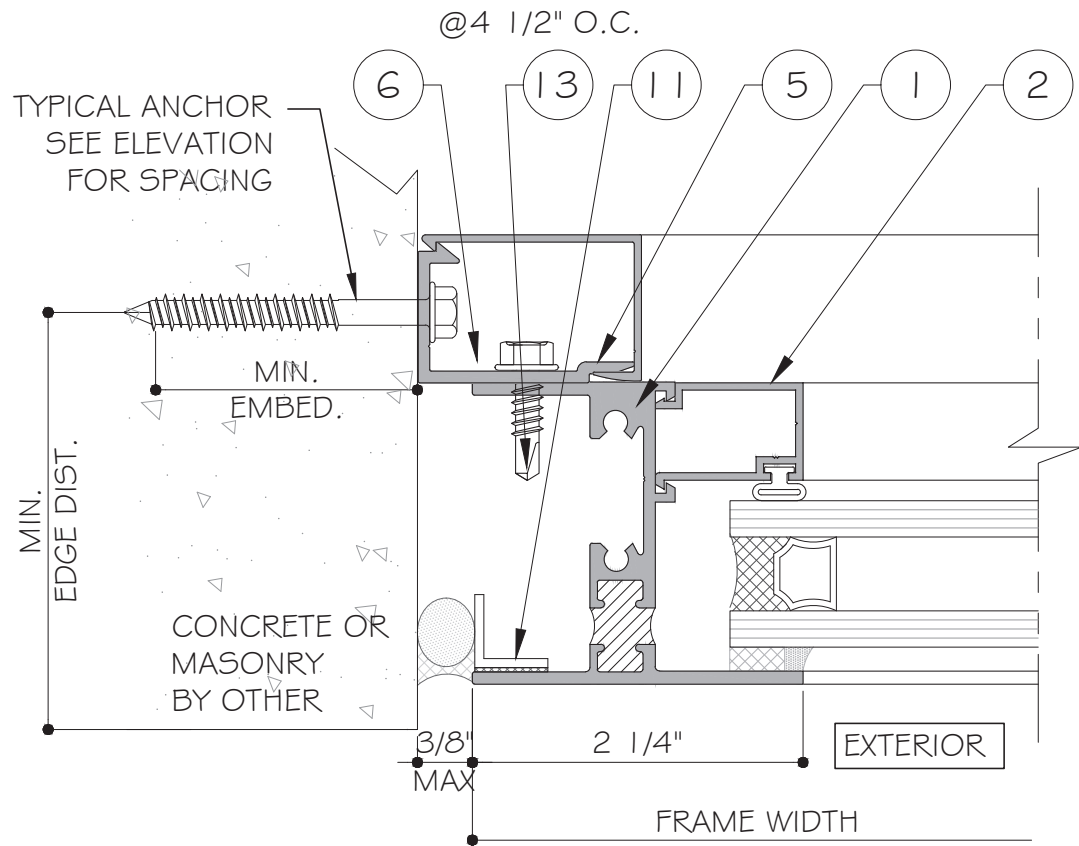
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| D1          |            |
| DRAWING NO. |            |
| AD21-19     |            |
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| R3        | 09.29.26 | FBC 2026    |

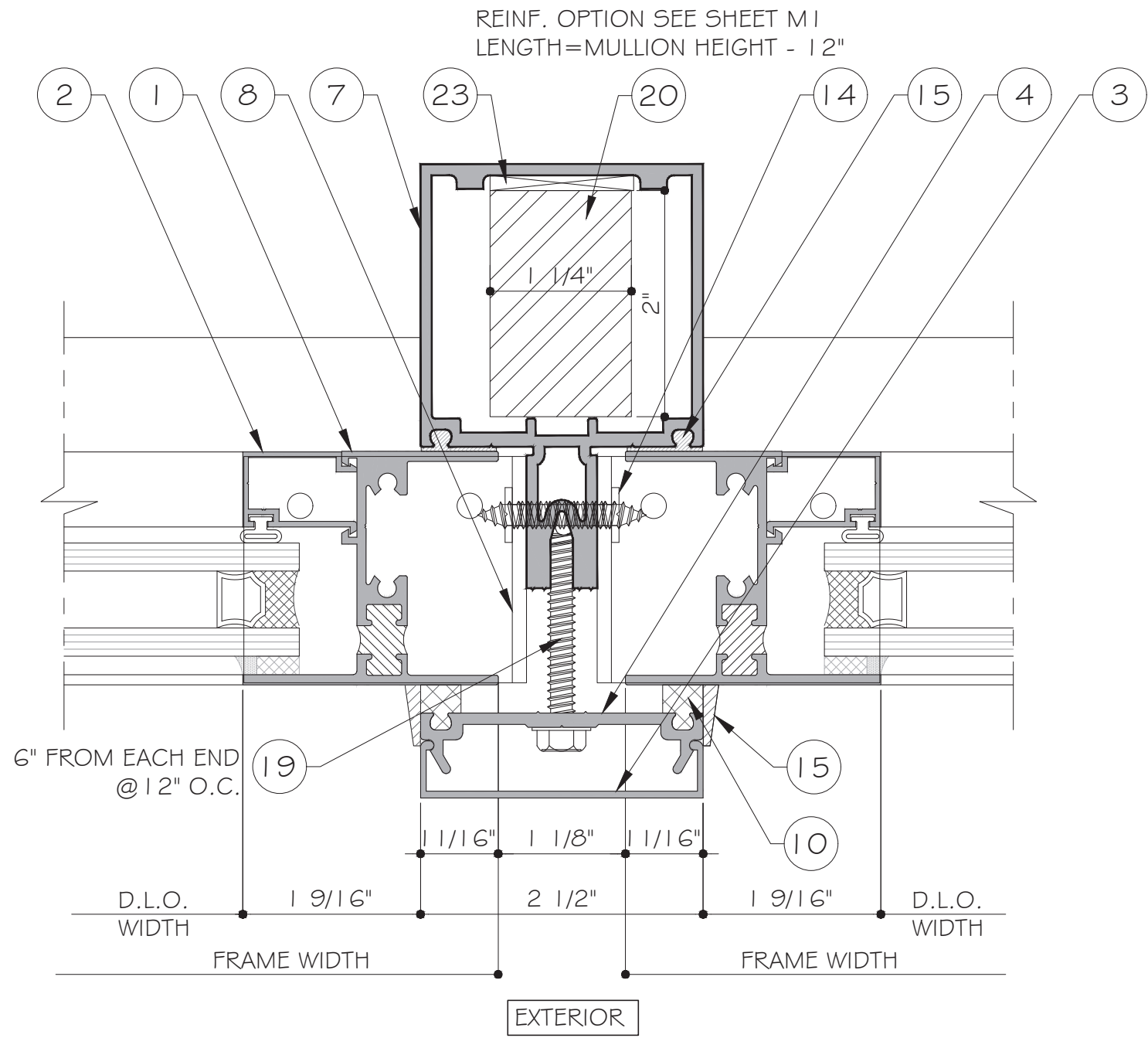
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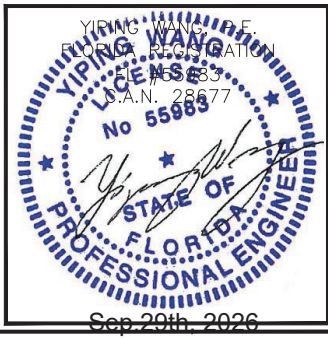
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| PROJECT     |            |
| D3          |            |
| DRAWING NO. |            |
| AD21-19     |            |
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1  
D4

DETAIL



| REVISIONS |          |
|-----------|----------|
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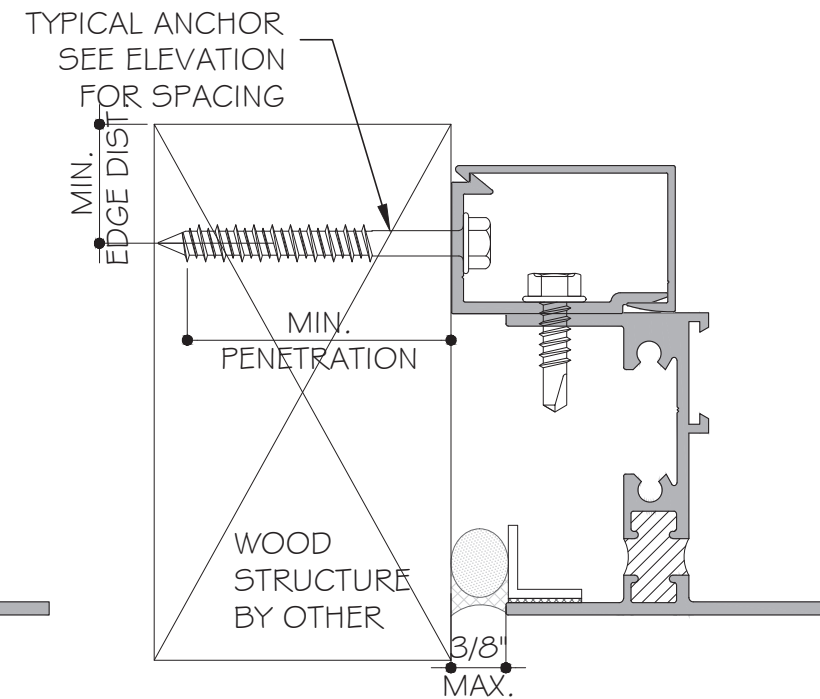
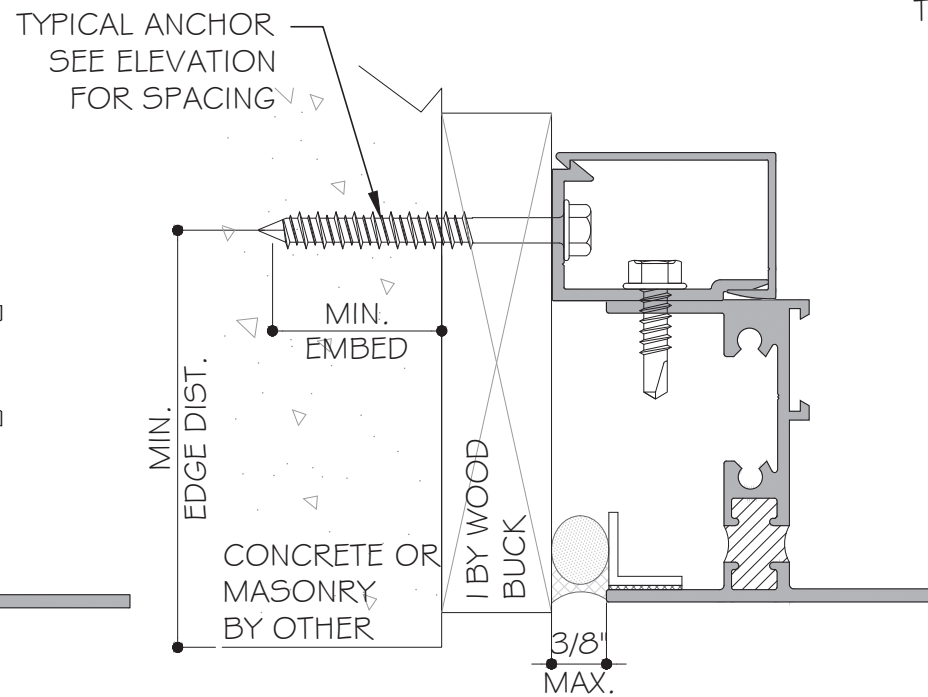
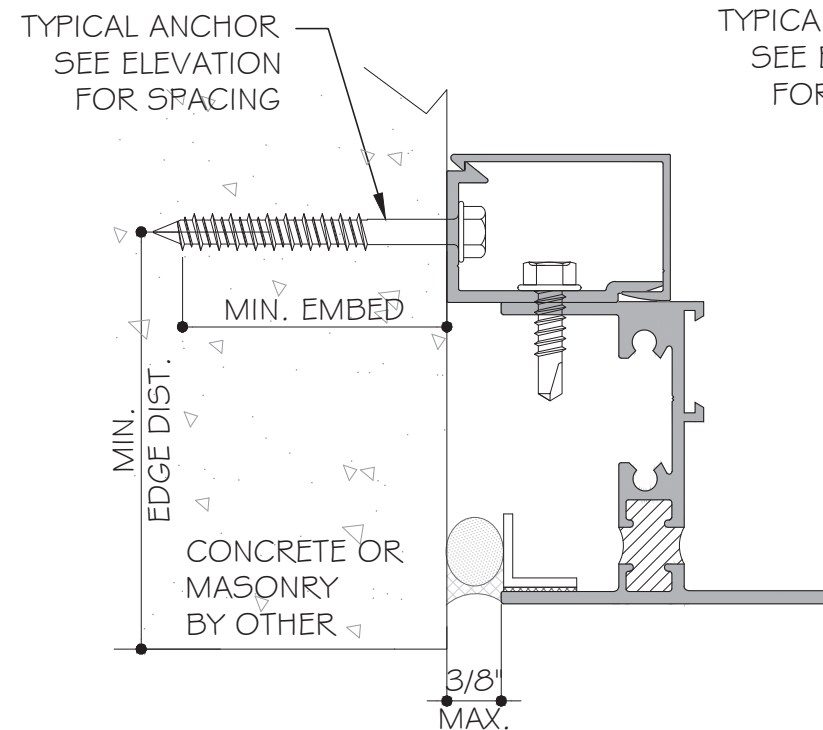
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| PROJECT     |            |
| D4          |            |
| DRAWING NO. |            |
| AD21-19     |            |
| 8 OF 12     |            |

Sep.29th. 2026



WOOD BUCKS NOT BY CT WINDOWS MUST BE DESIGNED AND ANCHORED PROPERLY TO TRANSFER LOADS TO BUILDING STRUCTURE.

TYPICAL ANCHORS:  
ANCHOR LAYOUT SEE ELEVATION FOR SPACING

ANCHOR OPTION:

TYPE A: 1/4" DIA. ULTRACON+ BY "DEWALT" ( $F_y=148$  KSI,  $F_u=164$  KSI)  
INTO 2 BY WOOD BUCKS OR WOOD STRUCTURE WITH 1 1/2" MIN.  
PENETRATION INTO WOOD OR THRU 1 BY WOOD BUCK INTO CONCRETE OR MASONRY  
WITH 1 3/4" MIN. EMBED.

TYPE B: 1/4" DIA. ULTRACON+ BY "DEWALT" ( $F_y=148$  KSI,  $F_u=164$  KSI)  
DIRECTLY INTO CONCRETE OR MASONRY  
WITH 1 3/4" MIN. EMBED

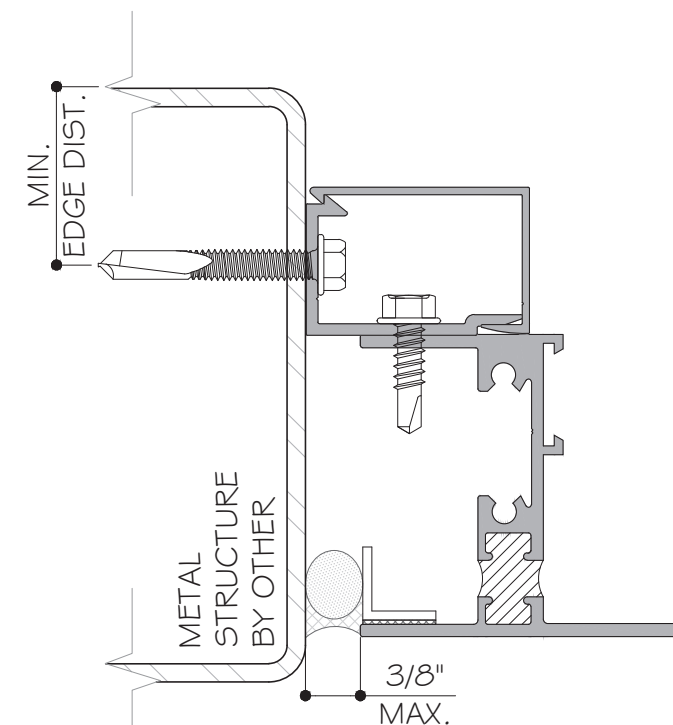
TYPE C: 1/4" SS SMS ( $F_y=65$  KSI,  $F_u=100$  KSI)  
INTO 1/8" THK ALUM. (6063-T5 MIN.) OR

1/4" DRILL FLEX (GRADE 5) ( $F_y=92$  KSI,  $F_u=120$  KSI)  
INTO 1/6" MIN. STEEL

CONCRETE AT HEAD, SILL OR JAMB  $f'_c = 3050$  PSI MIN.  
WOOD AT HEAD, SILL OR JAMB SG = 0.55 MIN.  
C-90 HOLLOW/ GROUT FILLED BLOCK AT JAMB  $f_m' = 2000$  PSI MIN.

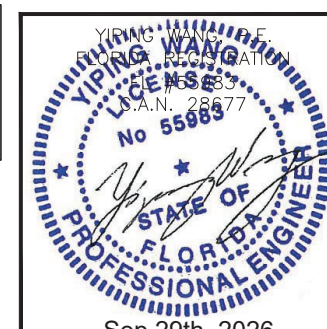
ANCHOR EDGE DISTANCE:

INTO CONCRETE OR MASONRY = 2 1/2" MIN.  
INTO WOOD = 1" MIN.  
INTO METAL = 3/4" MIN.



FOR CONDITION NOT COVERED,  
TO BE DESIGNED BY DELEGATED  
ENGINEER ON PROJECT BASES.

METAL STRUCTURE NOT BY CT WINDOWS MUST BE DESIGNED AND ANCHORED PROPERLY TO SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO BUILDING STRUCTURE.



Sep.29th. 2026

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| R2  | 11.17.23 | FBC 2023    |
| R3  | 09.29.26 | FBC 2026    |

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SERIES 500 THERMAL FIXED ALUMINUM WINDOW - N.L.

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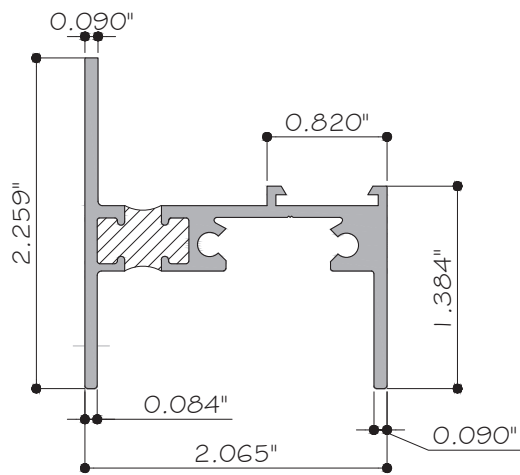
FL39629.1

|         |            |
|---------|------------|
| DATE    | 09.29.2026 |
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| DRAWN   | JAMES      |
| PROJECT |            |

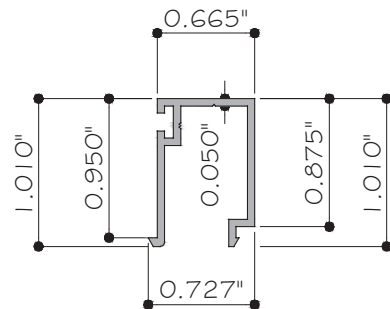
A1

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AD21-19

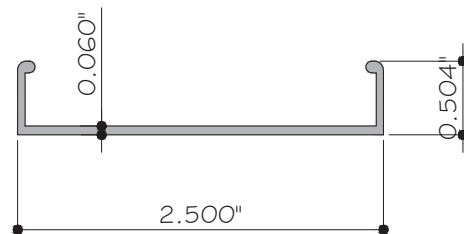
9 OF 12



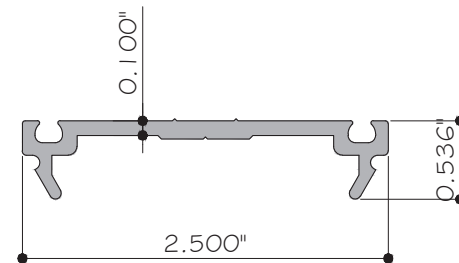
1 FRAME HEAD/  
JAMB/ SILL 9083  
ALUM. 6063-T6



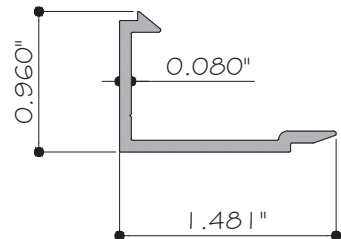
2 GLAZING BEAD 9081  
ALUM. 6063-T5



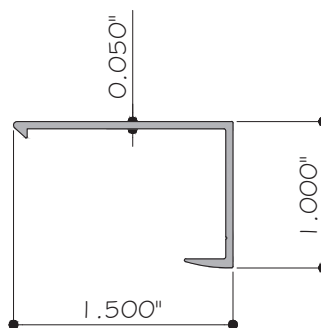
3 COVER 162006  
ALUM. 6063-T5



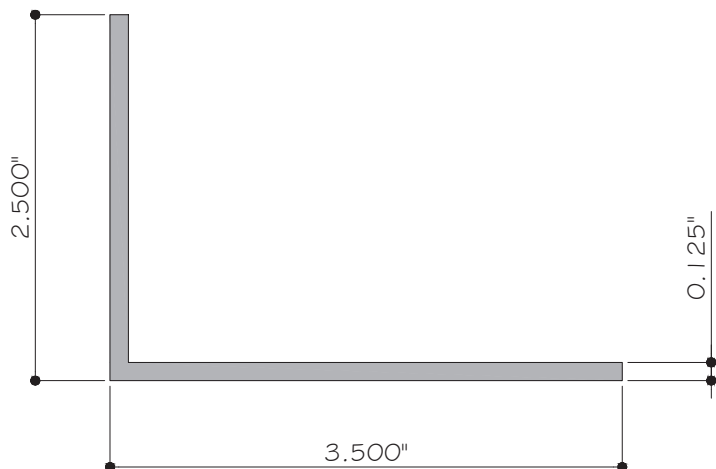
4 PRESSURE PLATE 162335  
ALUM. 6063-T6



5 PERIMETER SSG FILLER WLB-2004  
ALUM. 6063-T6



6 PERIMETER SSG FILLER WLB-2005  
ALUM. 6063-T5



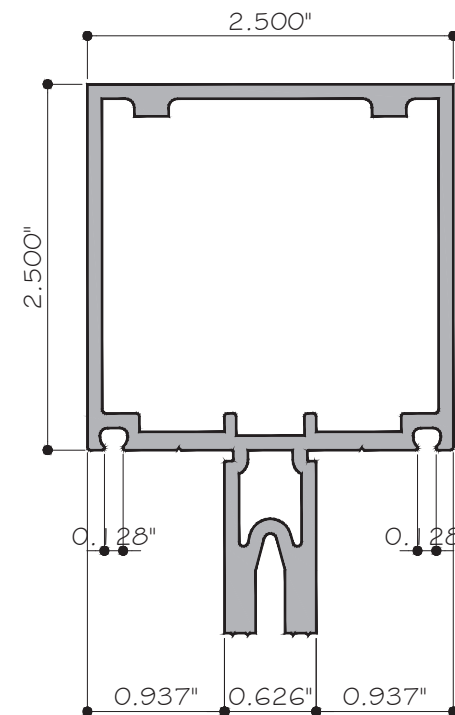
8 ALUM. ANGLE 2 1/2" X 3" X 1/8  
ALUM. 6063-T6



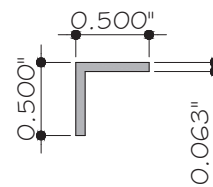
9 GLAZING BEAD 2288  
VINYL RUBBER



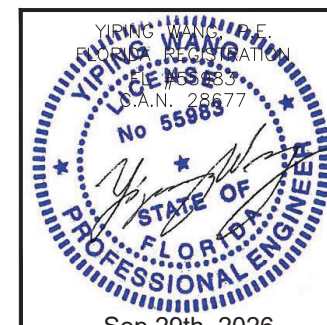
10 GASKET 027-857  
EPDM 70 DUROMETER



7 MULLION  
ALUM. 6063-T6



11 ANGLE 79H  
ALUM. 6063-T5



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PARTS

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| BILL OF MATERIALS |            |                                                            |                   |
|-------------------|------------|------------------------------------------------------------|-------------------|
| ITEM              | PART       | DESCREPTION                                                | MATERIAL          |
| 1                 | 9083       | FRAME HEAD/ JAMB/ SILL                                     | ALUMINUM 6063-T6  |
| 2                 | 9081       | GLAZING BEAD                                               | ALUMINUM 6063-T5  |
| 3                 | 162006     | COVER                                                      | ALUMINUM 6063-T6  |
| 4                 | 162335     | PRESSURE PLATE                                             | ALUMINUM 6063-T6  |
| 5                 | WLB - 2004 | PERIMETER SSG FILLER                                       | ALUMINUM 6063-T6  |
| 6                 | WLB - 2005 | PERIMETER SSG FILLER                                       | ALUMINUM 6063-T5  |
| 7                 | —          | MULLION                                                    | ALUMINUM 6063-T6  |
| 8                 | -          | 2 1/2" X 3 1/2" X 1/8" ALUM. ANGLE 2" LONG                 | ALUMINUM 6063-T6  |
| 9                 | 2288       | GLAZING BEAD                                               | VINYL RUBBER      |
| 10                | 027 - 857  | GASKET                                                     | EPDM 70 DUROMETER |
| 11                | 79H        | 1/2" X 1/2" X 1/16" ALUM. ANGLE                            | ALUMINUM 6063-T5  |
| 12                | -          | #14 X 2" LONG ULTRACON                                     | STAINLESS STEEL   |
| 13                | -          | #14 X 1" LONG HEX HEAD SCREW                               | STAINLESS STEEL   |
| 14                | -          | #14 X 1 1/4" UNDERCUT FLAT HEAD                            | STAINLESS STEEL   |
| 15                | -          | DOW CORNING 795                                            | SILICONE          |
| 16                | SM5504     | SCHNEE-MOOREHEAD ACRYL-R NARROW JOINT SEALANT              | ACRYLIC           |
| 17                | TPR 566    | SETTING BLOCK                                              | EPDM 70 DUROMETER |
| 18                | S499DC     | GLAZING TAPE                                               | URETHANE FOAM     |
| 19                | -          | 1/4" - 14 X 2" LONG TYPE - B ELCO DRILL FLEX               | STAINLESS STEEL   |
| 20                | -          | 1 1/4" X 2" STEEL BAR                                      | A36               |
| 21                | -          | —                                                          | -                 |
| 22                | -          | #8 X 1 1/2" P.H. SMS, ASSEMBLY SCREW                       | STAINLESS STEEL   |
| 23                | -          | 1 1/4" X 1/8", 2" LONG, HARD PLASTIC SHIM, TOP AND BOTTOM. | -                 |

| REVISIONS |          |             |  |
|-----------|----------|-------------|--|
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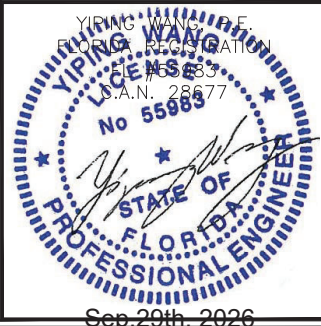
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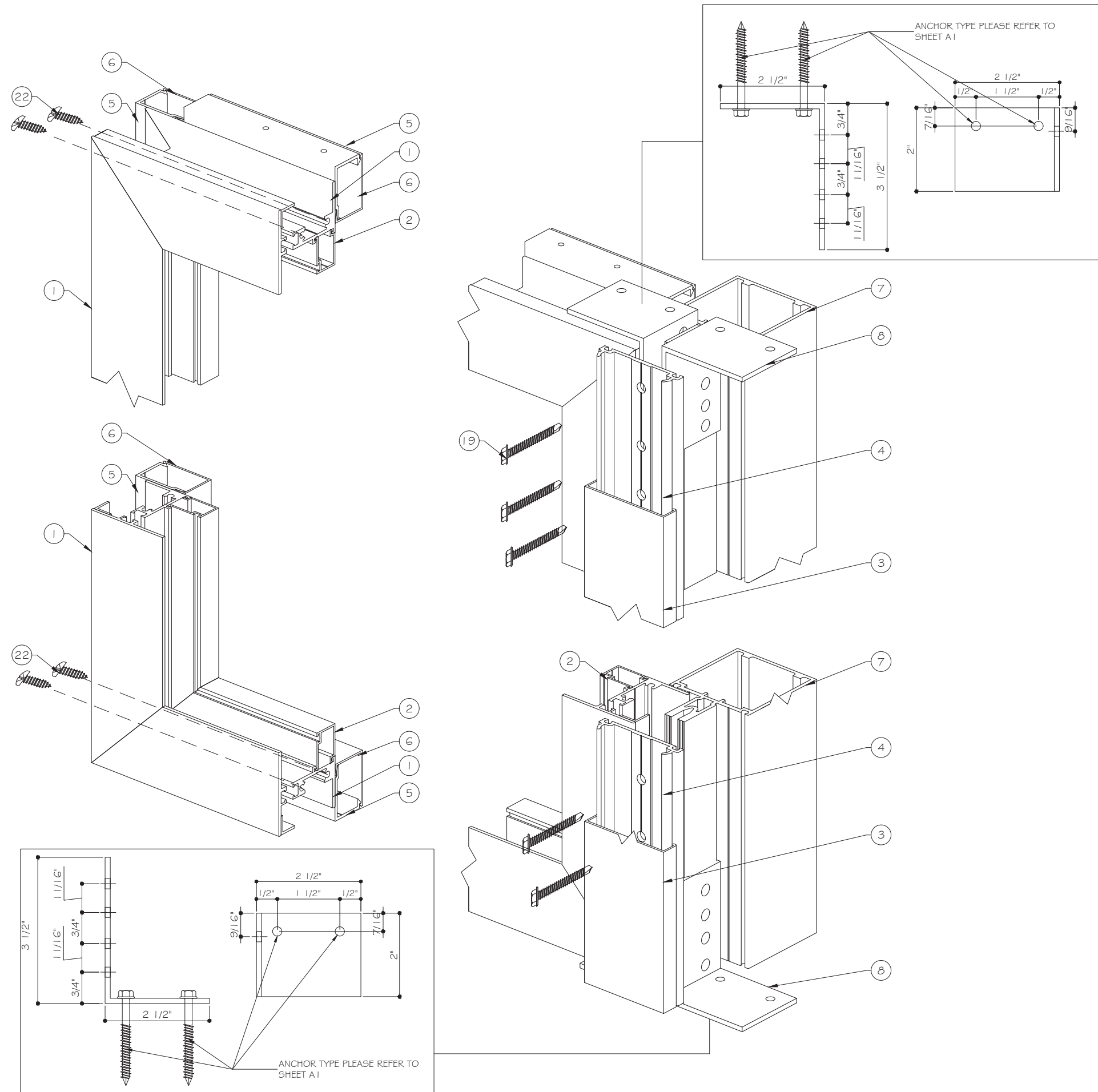
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| 11 OF 12               |            |



YIPING WANG, P.E.  
Professional Engineer  
License No. 55983  
State of Florida  
Date: Sep. 29th, 2026



| REVIEWS |                   |
|---------|-------------------|
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