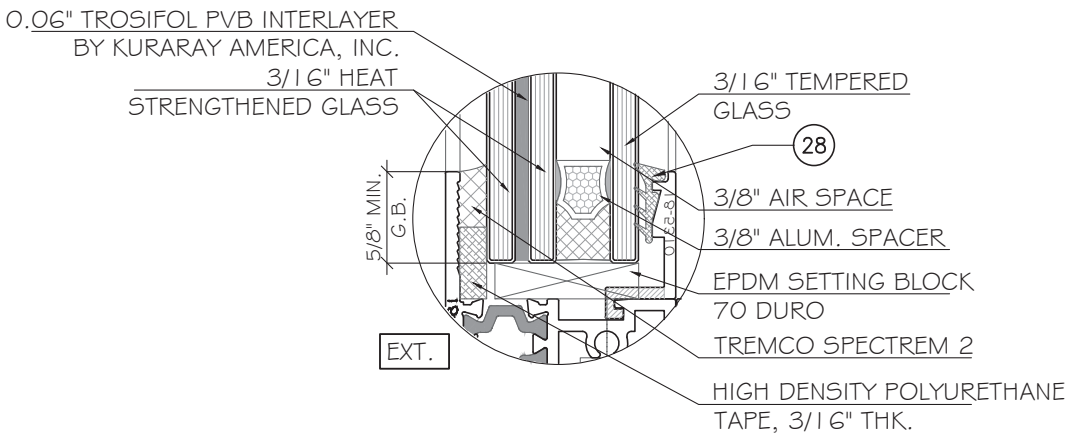
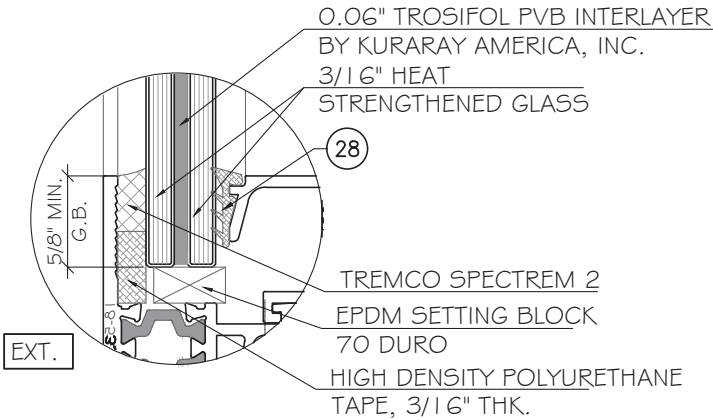


CUHADAROGLU METAL SAN.PAZ.A.S
SERIES TH-CS-34 ALUMINUM CASEMENT WINDOW - (S.M.I)



G1 GLASS TYPE 'G1'
1 1/16" NOMINAL OVERALL



G2 GLASS TYPE 'G2'
7/16" NOMINAL OVERALL

NOTE:
GLASS COMPLIES WITH ASTM E 1300-09
(3 SEC. GUSTS).

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION OF FLORIDA BUILDING CODE 2020/8TH EDITION OF FLORIDA BUILDING CODE 2023 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

- WINDOWS ARE RATED FOR SMALL MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED WHEN USED ABOVE 30FT OF GRADE.

- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.

- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS.
ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/ METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 7TH EDITION OF FLORIDA BUILDING CODE 2020/8TH EDITION OF FLORIDA BUILDING CODE 2023 SECTION AS APPLICABLE.

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

- ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

-MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

- SEALANT:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME
INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.

USE CHARTS AS FOLLOWS.

STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS.

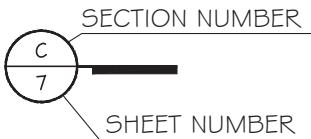
STEP 2: SEE SHEET E1 FOR APPROVED TYPICAL ELEVATION & CONFIGURATION.

STEP 3: ANCHOR OPTION SEE SHEET A1. ANCHOR LAYOUT SEE SHEET E1.

STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2 & 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

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



LIMITATIONS OF USE

A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I.E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.

E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FL42311.2

Professional Engineer
August 17th, 2023

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SERIES TH-CS-34 ALUMINUM CASEMENT WINDOW -SMI
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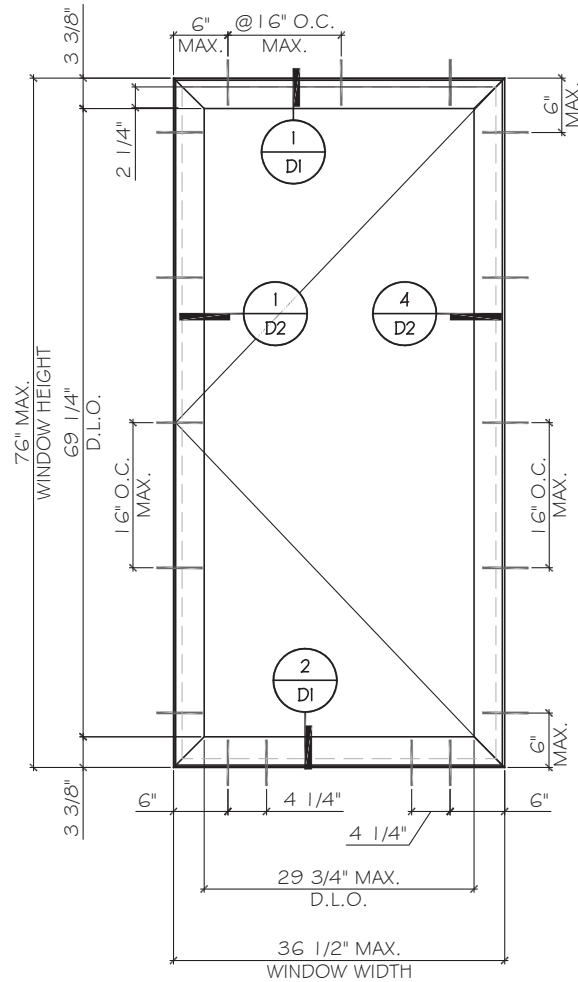
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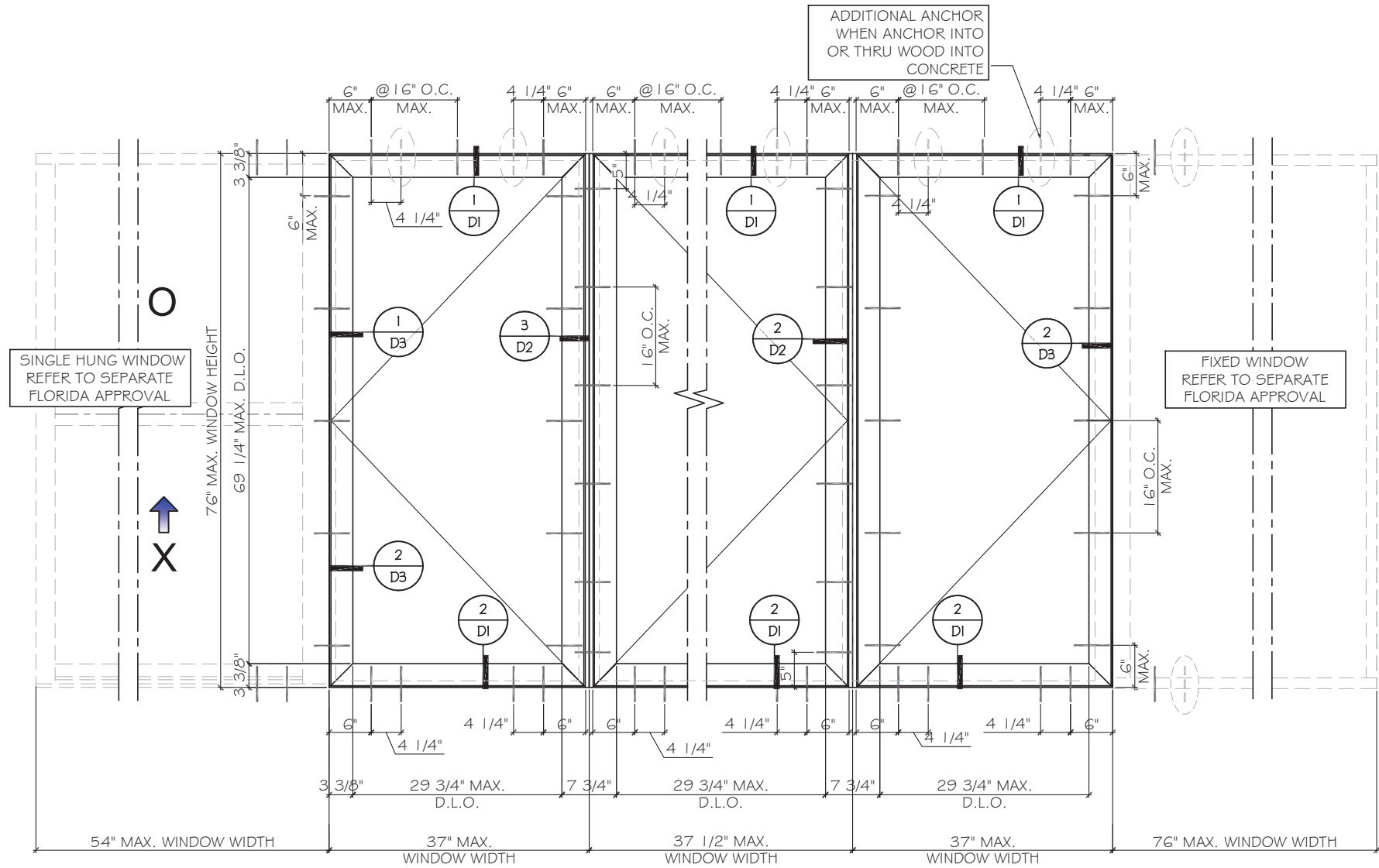
COVER

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TYPICAL EXTERIOR ELEVATION

DESIGN LOAD (PSF)	
FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC	
+70	-80



TYPICAL EXTERIOR ELEVATION

DESIGN LOAD (PSF)	
FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC	
+70	-80

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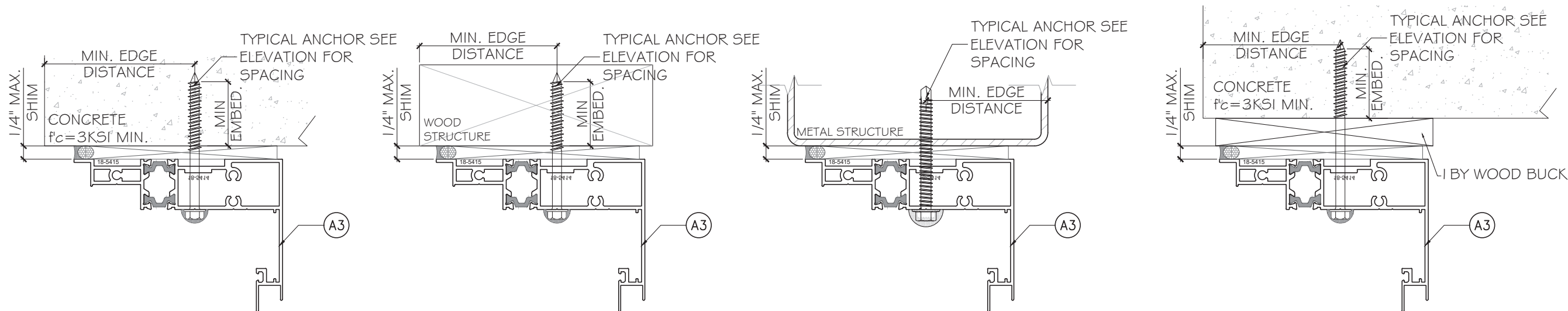
Sheet No.

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E1

Sheet No.

2 OF 9



NOTE: WOOD BUCKS & METAL STRUCTURES NOT BY CUHADAROGLU METAL SAN. PAZ. A.S. MUST BE PROPERLY SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURES.

TYPICAL ANCHOR TYPES

ANCHOR TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164\text{KSI}$, $F_y = 148\text{KSI}$) INTO 2BY WOOD BUCKS OR WOOD STRUCTURE, 1 1/2" MIN. PENETRATION INTO WOOD (HEAD/ JAMB/ SILL)

THROUGH 1X WOOD BUCKS INTO CONCRETE OR MASONRY 1 3/4" MIN. EMBEDMENT INTO CONCRETE (HEAD/ JAMB/ SILL) 1 3/4" MIN. EMBEDMENT INTO HOLLOW OR GROUT FILLED BLOCK (JAMB ONLY)

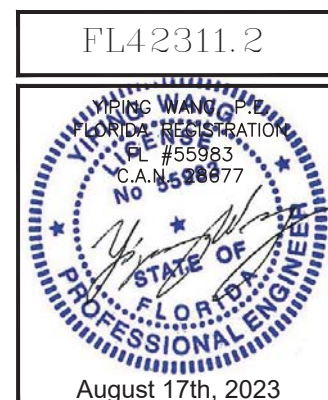
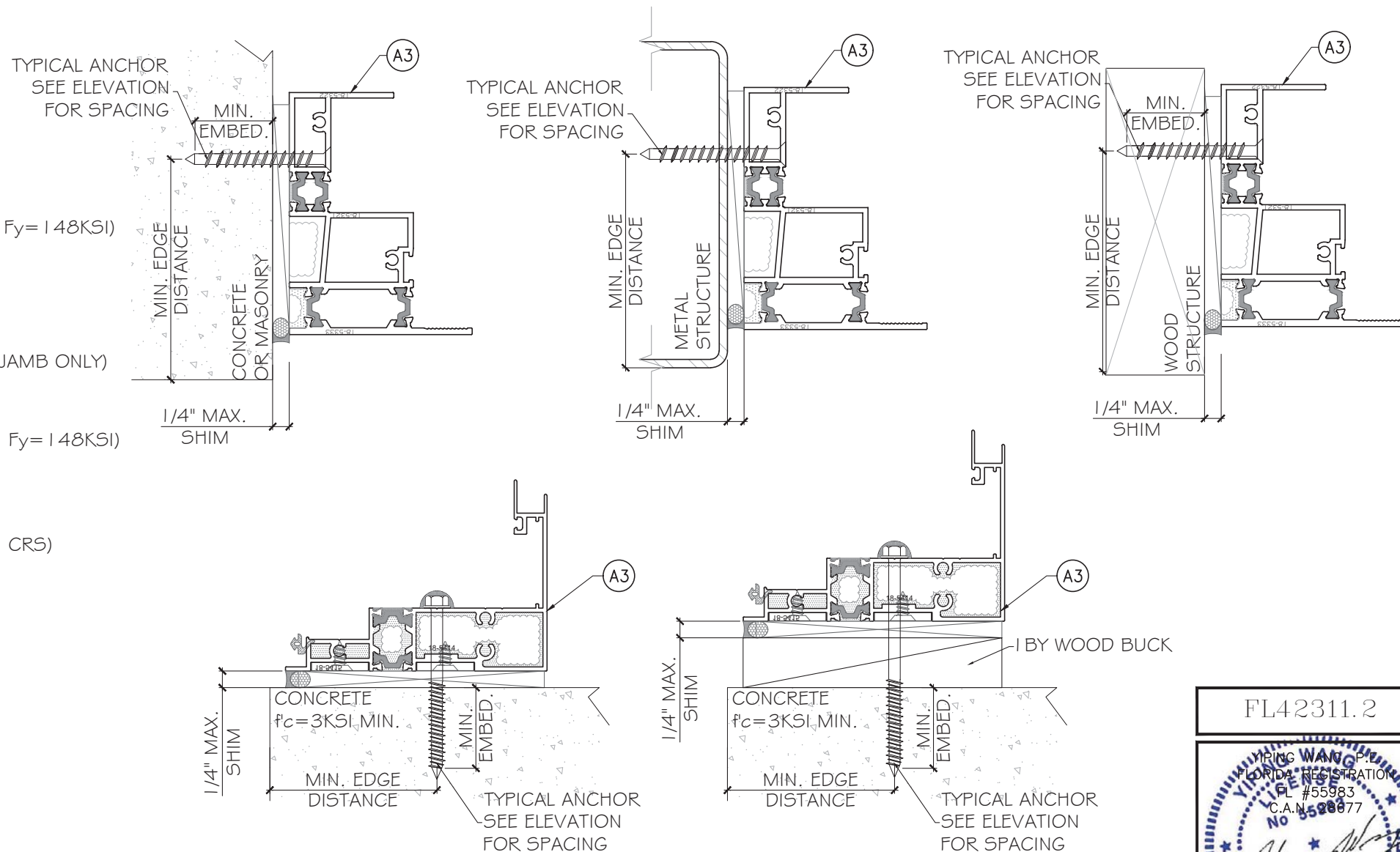
ANCHOR TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164\text{KSI}$, $F_y = 148\text{KSI}$) DIRECTLY INTO CONCRETE W/ 1 3/4" MIN. EMBEDMENT

ANCHOR TYPE 'C' - 1/4" DIA. TEKS/SELF DRILLING SCREW (GRADE 5 CRS) INTO F.B.C. APPROVED MULLIONS OR INTO METAL STRUCTURES. (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

ALUMINUM: 1/8" THK. MIN. (6063-T5, MIN)
STEEL: 1/8" THK. MIN. ($F_y = 36\text{KSI}$ MIN)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCE:
INTO WOOD STRUCTURE: 1" MIN
INTO METAL: 3/4" MIN.
INTO CONCRETE OR MASONRY: 2 1/2" MIN.

SUBSTRATE:
WOOD, SG = 0.55 MIN.
CONCRETE AT HEAD/SILL/JAMB, $f_c = 3000\text{ PSI}$ MIN.
C-90 HOLLOW / FILLED BLOCK AT JAMBS: $f_m = 2000\text{ PSI}$ MIN.

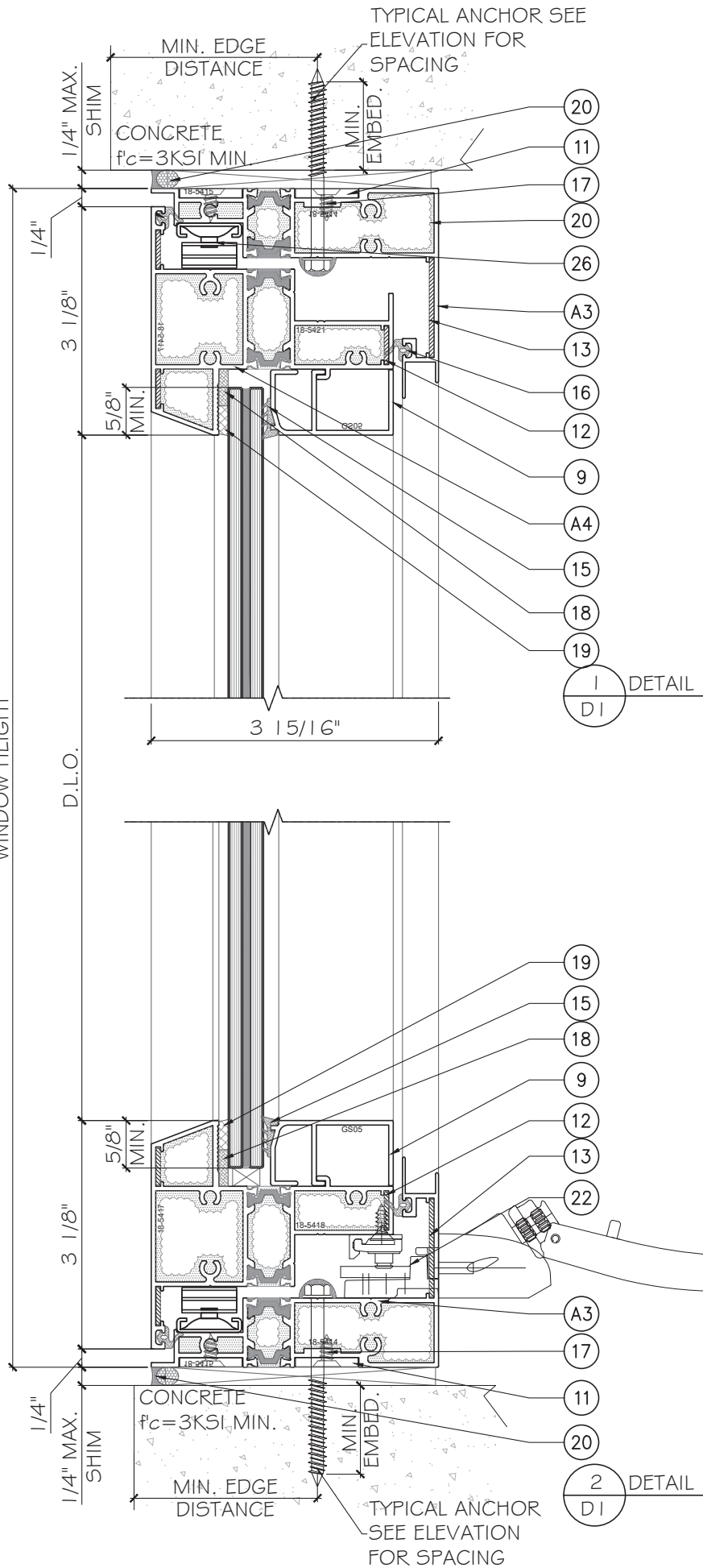


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EXTERIOR

WINDOW HEIGHT

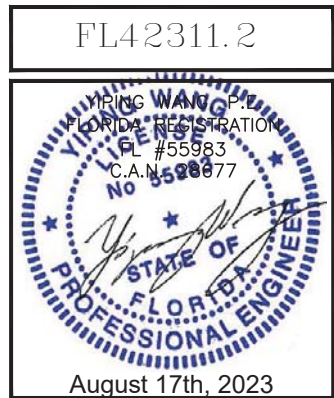
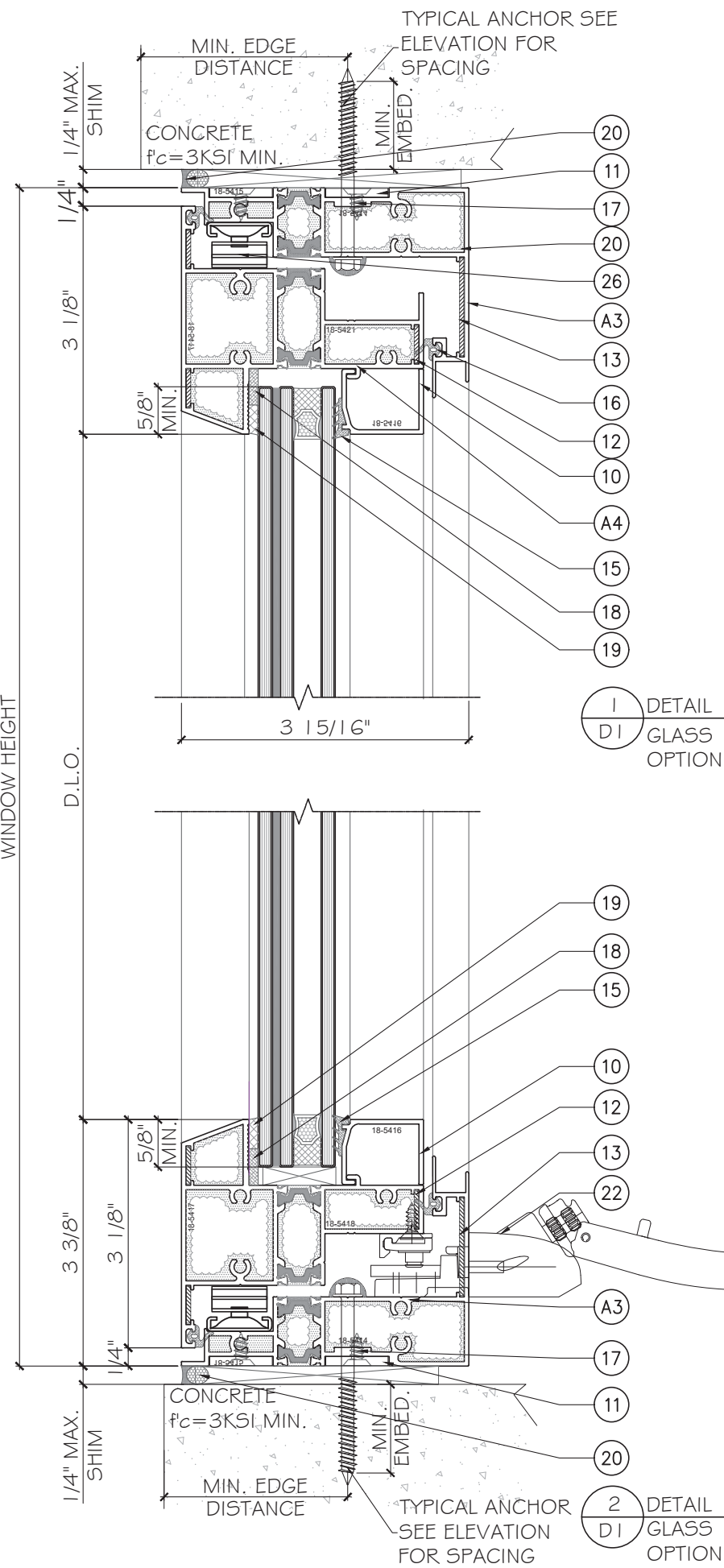
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EXTERIOR

WINDOW HEIGHT

D.L.O.



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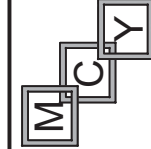
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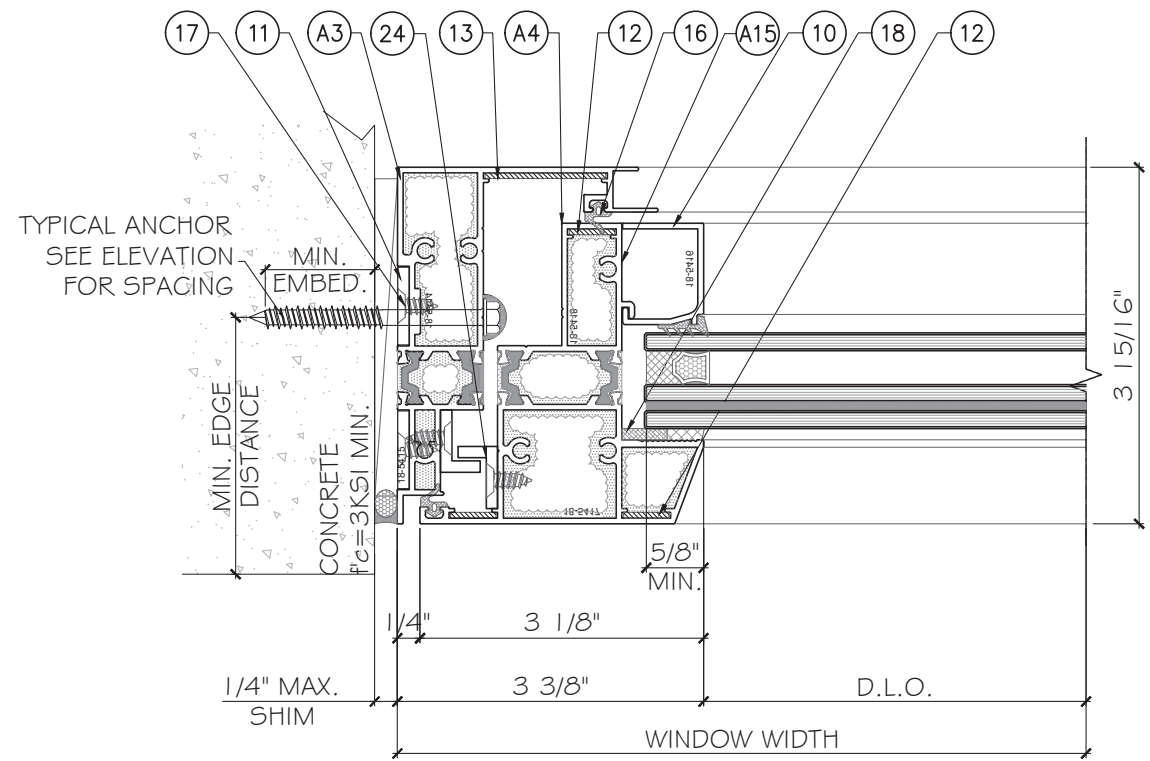
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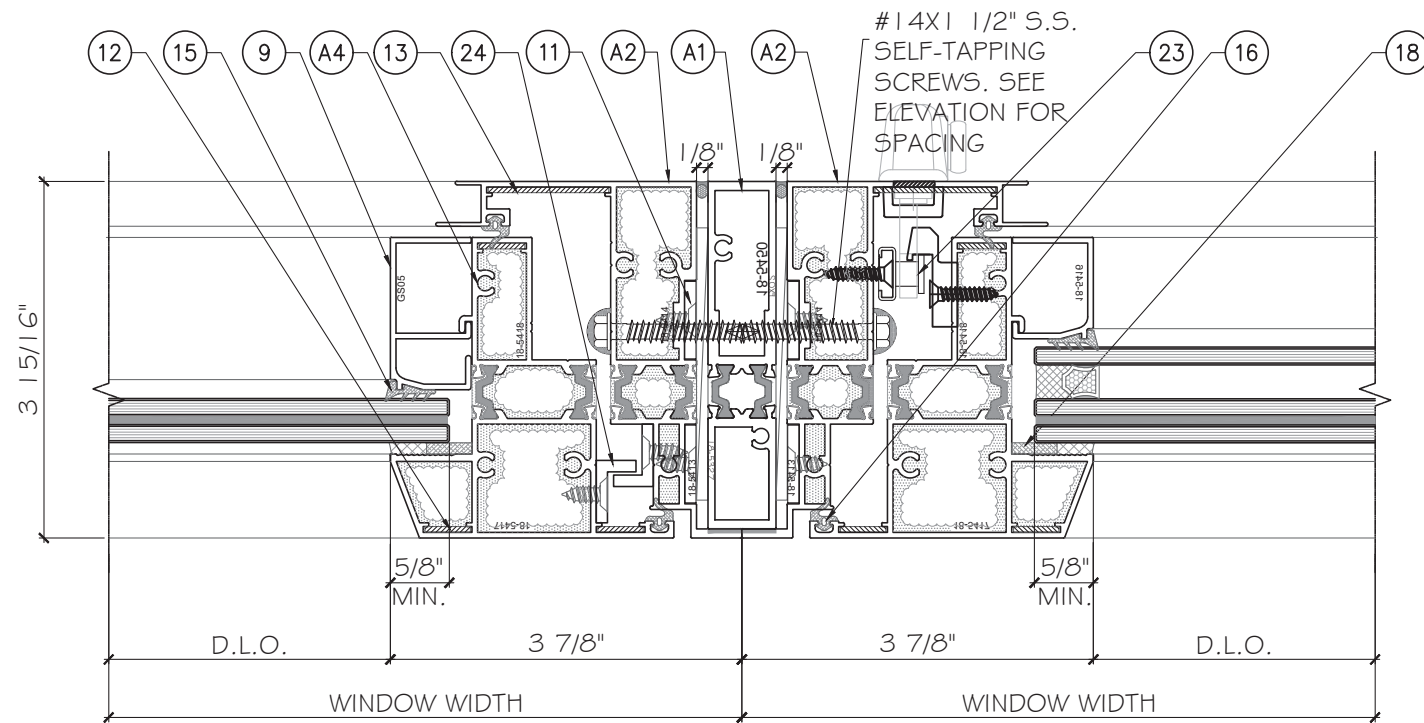
MCY@mcyeengineering.com

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Drawn By	James	Description	NEW APPLICATION
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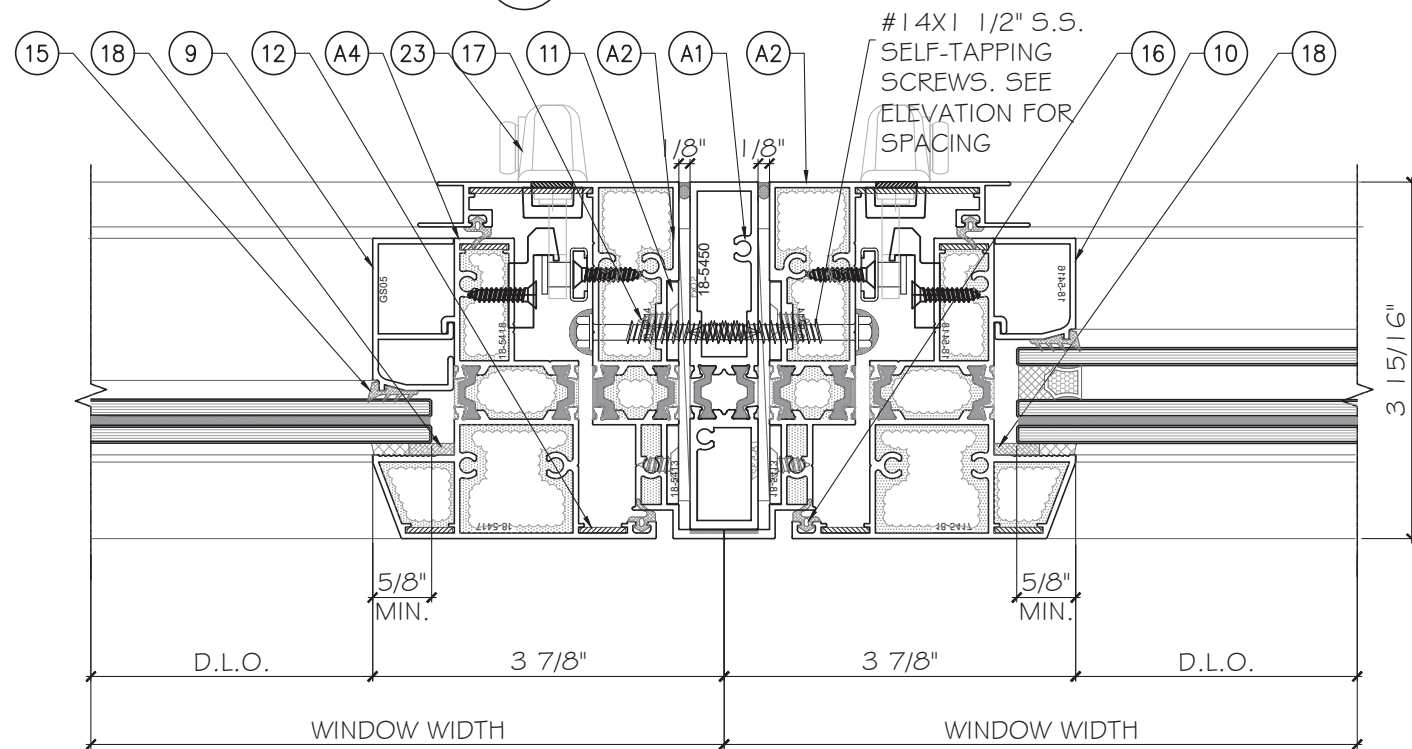
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1
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DETAIL



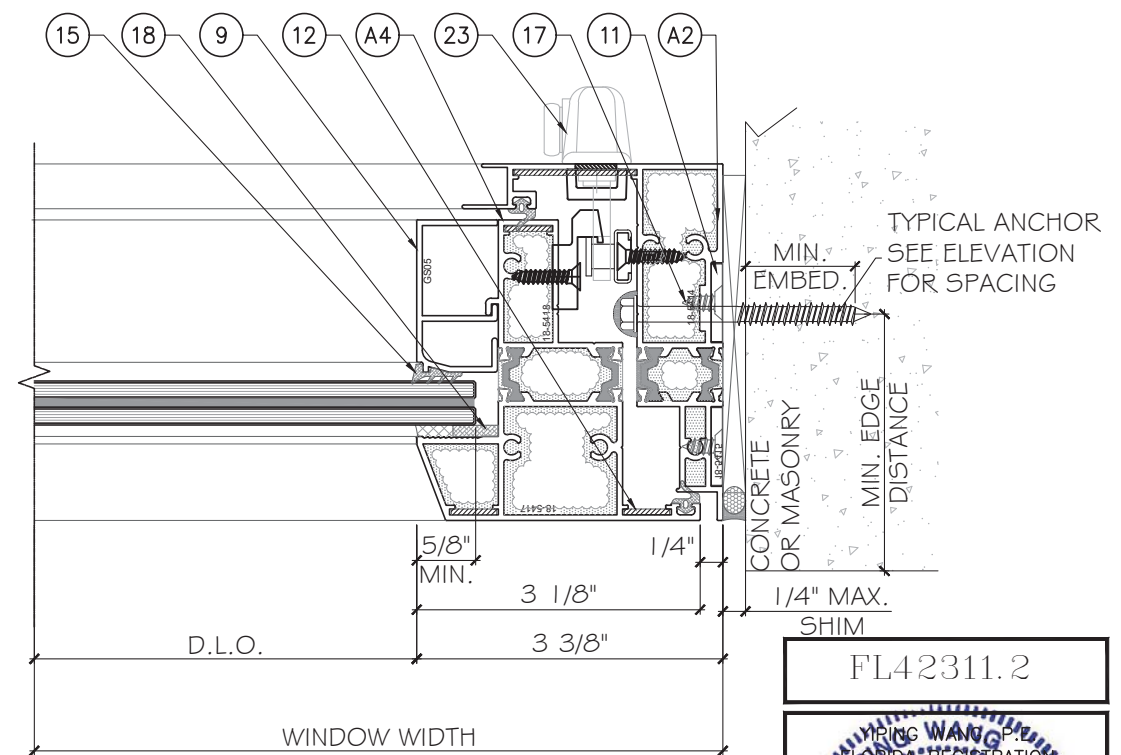
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D2
DETAIL



EXTERIOR

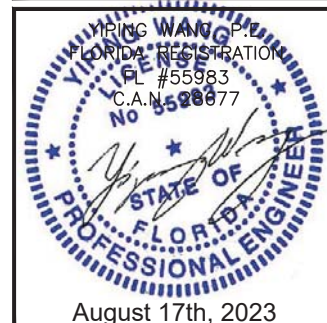
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DETAIL



EXTERIOR

4
D2
DETAIL

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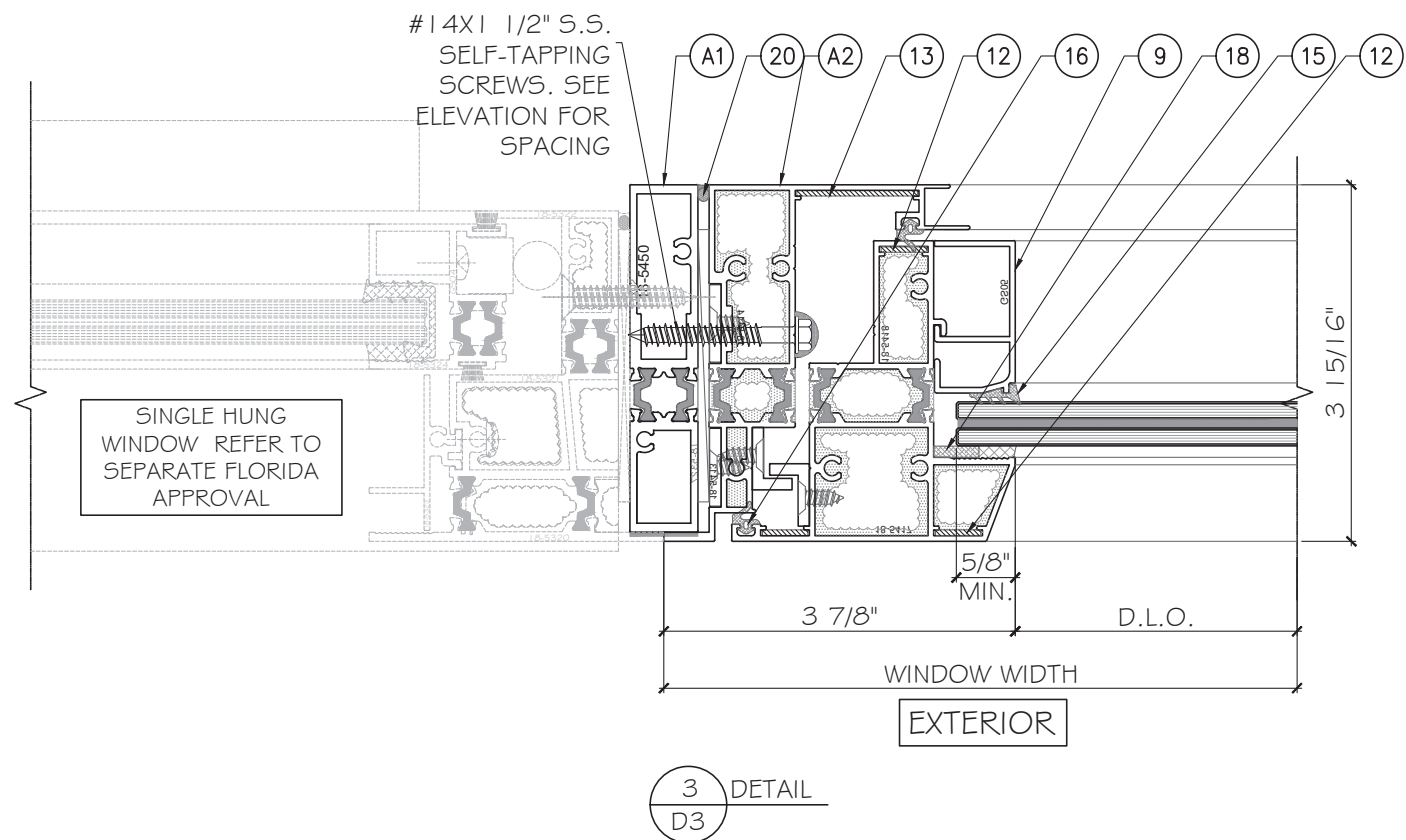
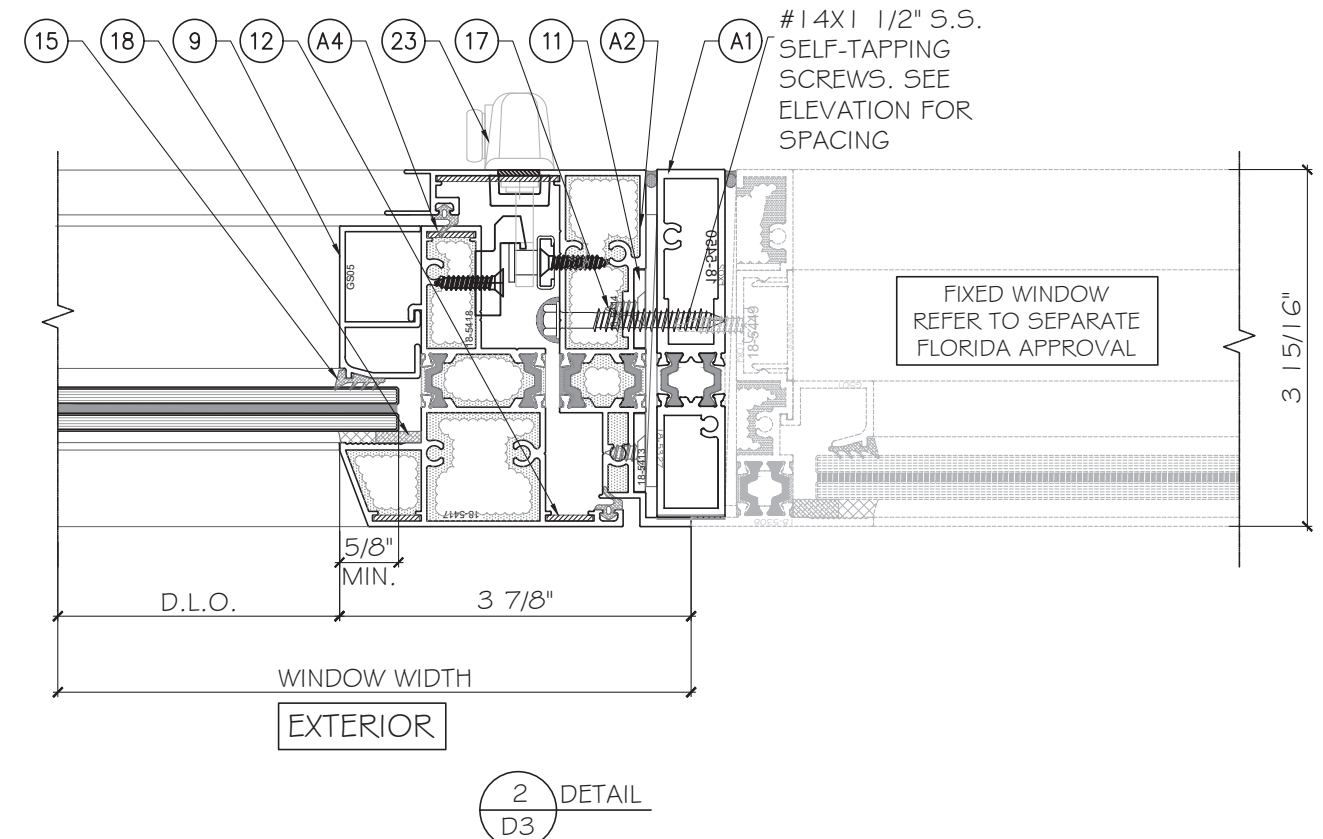
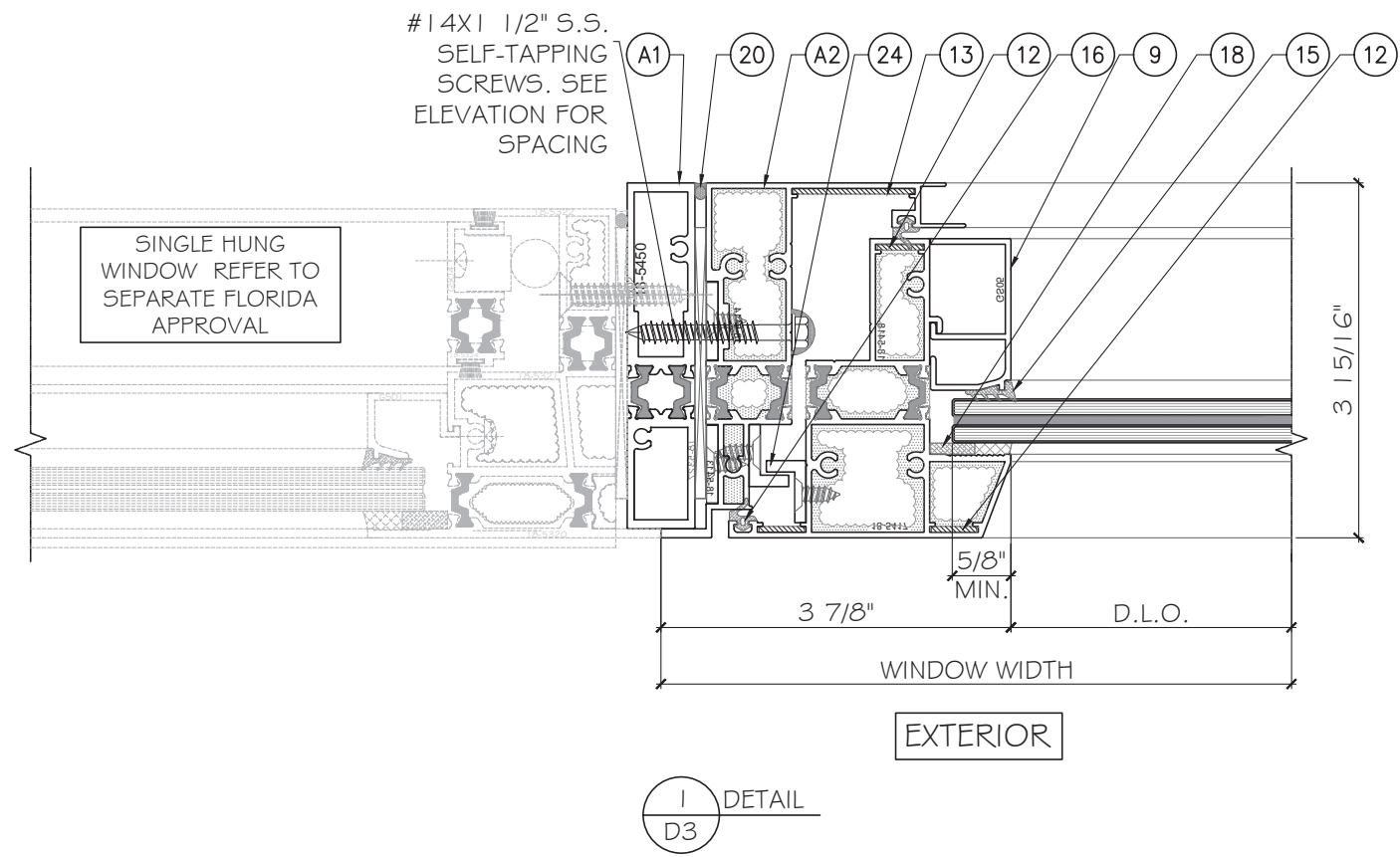
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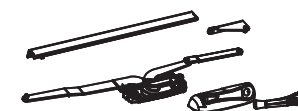
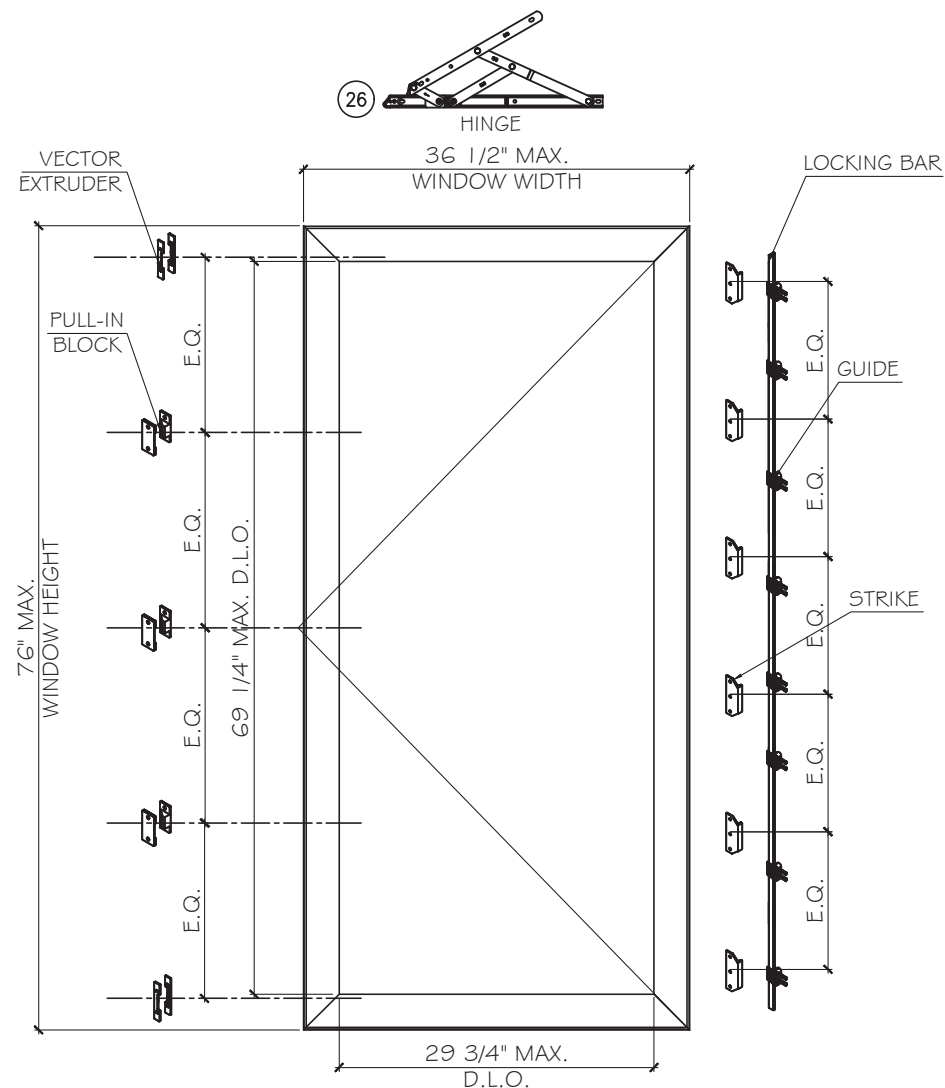
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With a removable handle and cover, our latest casement hardware solution offers unprecedented flexibility, optimized security, and effortless operation. Allowing for quick and easy installation and eliminating the potential for damage during shipping, the NOVA Casement Locking System is the most advanced and adaptable solution on the market.

- Removable handle and cover offers styling flexibility and minimizes inventory cost
- Metal or composite cover and lever options available
- Single-point or multi-point configurations
- Self-locating guides provide quick and easy installation
- Locking handle can be mounted from either side of window frame
- Adjustable mushroom-head roller pins overcome manufacturing tolerances, ensure smooth operation and allow user to adjust seal compression
- High-strength design for impact-certified applications
- All stainless steel locking bar design for maximum corrosion resistance
- Available in all stainless steel or powdercoated alternative with stainless steel pins

- 48 mm (1.8") of lock bar travel provides secure multi-point locking and enables progressive locking action
- 227 kg (500 lbs) load per locking point is achievable, allowing specification into hurricane impact applications
- Lockpin adjustment: +/- 1 mm

- Mechanism is die cast zinc alloy with stainless springs
- Covers are molded copolymer or die cast zinc alloy
- Locking bar is all stainless steel
- Available in color matched, powdercoated alternative or architectural finishes

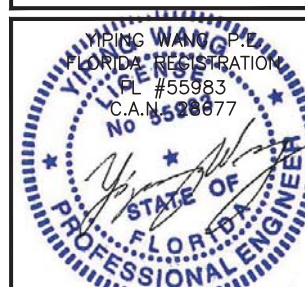


(22) OPERATOR SYSTEM

HARDWARE LAYOUT

A ROTARY OPERATOR IS INSTALLED, ASSA ABLOY NOVA OPERATOR SYSTEM DUAL ARM (CO111-0201-085 AND CO111-0202-085). TWO ANCILLARY SECURITY DEVICES (VECTOR EXCLUDER) ARE INSTALLED ON THE HANDLE SIDE AT 1-7/8" (47.5MM) FROM THE SASH BOTTOM AND AT 1-7/8" (47.5MM) FROM THE SASH HEAD. HANDLE NOVA CASEMENT LOCKING SYSTEM. THREE PULL-IN BLOCKS (SECURISTYLE S8305, SECURISTYLE R8304) ARE INSTALLED ON THE HANDLE SIDE AT TOP AND BOTTOM OF SASH, ONE AT CENTER. ON THE OPPOSITE SIDE, THE ASSA ABLOY NOVA LOCKING SYSTEM LOCK BAR IS INSTALLED. CASEMENT STRIKER ARE INSTALLED AT 2 1/4" FROM BOTTOM OF SASH AND @15" O.C..

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 MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PKWY #301 MIRAMAR, FL 33027 P: 305.271.0117 www.MCYEngineering.com MCY@mcvengineering.com	SERIES TH-CS-34 ALUMINUM CASEMENT WINDOW -SMI CUHADAROGLU METAL SAN.PAZ.A.S YAKUPLU MAH. HURRIYET BULVARI NO:6-8 BEYLIKDUZU ISTANBUL, TURKIYE 34524 TEL. +90 212 224 2020 FAX. +90 212 224 2040
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