



**Product Approval**  
USER: Public User

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OFFICE OF THE SECRETARY

FL #	FL42522	
Application Type	New	
Code Version	2023	
Application Status	Approved	
Comments		
Archived	<input type="checkbox"/>	
Product Manufacturer	GIG Windows & Doors	
Address/Phone/Email	290 W 78 Road Hialeah, FL 33014 (305) 558-8103 tony@generalimpact.com	
Authorized Signature	Jose Zuniga tony@generalimpact.com	
Technical Representative		
Address/Phone/Email		
Quality Assurance Representative		
Address/Phone/Email		
Category	Windows	
Subcategory	Single Hung	
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received	
Florida Engineer or Architect Name who developed the Evaluation Report	Walter A. Tillit Jr., P.E.	
Florida License	PE-44167	
Quality Assurance Entity	National Accreditation and Management Institute	
Quality Assurance Contract Expiration Date	12/31/2026	
Validated By	John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received	
Certificate of Independence	<a href="#">FL42522_R0_COI_COI_Drwg_23-217_GIG_Windows_Doors.pdf</a>	
Referenced Standard and Year (of Standard)	<b>Standard</b>	<b>Year</b>
	ASTM E1300	2009
	TAS 201	1994
	TAS 202	1994
	TAS 203	1994
Equivalence of Product Standards Certified By		
Sections from the Code		

Product Approval Method

Method 1 Option D

Date Submitted	10/09/2023
Date Validated	10/09/2023
Date Pending FBC Approval	10/12/2023
Date Approved	12/13/2023

**Summary of Products**

FL #	Model, Number or Name	Description
42522.1	Series 20000 High Impact Single Hung Window Large Missile Impact Resistant	Window System made of Laminated and Insulated Impact Resistant Glass retained by aluminum profile frame, wet glazed.
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> Yes <b>Design Pressure:</b> +varies/-varies <b>Other:</b> Large & Small Missile Impact Resistant, see General Notes No. 1 thru 5, on sheet 1 of installation Drawing No. 23-217. A.S.D. Pressure rating per schedules on installation Drawing No. 23-217. See Section 7 of Evaluation Report for additional Limitations and Conditions of Use.		<b>Installation Instructions</b> <a href="#">FL42522_R0_II_PED_Drwg_23-217_GIG_Windows_Doors.pdf</a> Verified By: Walter A. Tillit Jr., P.E. PE 44167 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL42522_R0_AE_PER_Drwg_23-217_GIG_Windows_Doors.pdf</a> Created by Independent Third Party: Yes

[Back](#)

[Next](#)

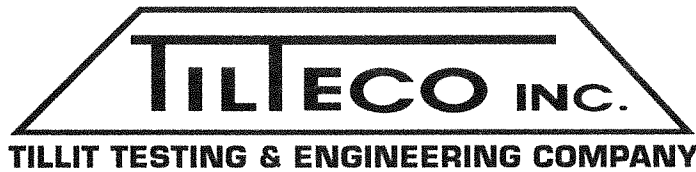
[Contact Us](#) :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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**Product Approval Accepts:**





WALTER A. TILLIT, JR., P.E.

tilteco@aol.com  
FL P.E. License No. 44167  
FL C.A. License No. 0006719

## CERTIFICATE OF INDEPENDENCE

**Evaluation Report #:** 23-0919.08

**Date:** September 19, 2023

**Product Category:** Windows

**Product Subcategory:** Single Hung

**Product Name:** **SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT**

**Manufacturer Name:** **GIG WINDOWS & DOORS**  
290 West 78<sup>th</sup> Road  
Hialeah, FL 33014

**Dear Sir (Madam):**

This is to certify that this Florida Professional Engineer, performing this evaluation does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the reports are being issued.

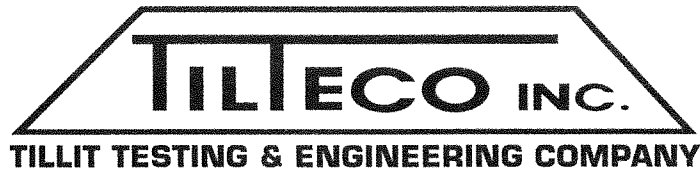
This is also to certify that this Florida Professional Engineer performing this evaluation does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

**Certificate of Independence prepared by Walter A. Tillit, Jr., P.E. (Florida License No. 44167), President of Tilteco, Inc. (Florida CA-0006719).**

WALTER A. TILLIT, JR.  
No. 44167  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

WAT/MA

D:\TILTECO ADMON RECORDS \ CERTIFICATION OF INDEPENDENCE \ GENERAL IMPACT GLASS & WINDOWS \ SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT \ EVALUATION REPORT # 23-0919.08



WALTER A. TILLIT, JR., P.E.

tilteco@aol.com  
FL P.E. License No. 44167  
FL C.A. License No. 0006719

## PRODUCT EVALUATION REPORT

**REPORT No.:** 23-0919.08

**DATE:** September 19, 2023

**PRODUCT CATEGORY:** Windows

**PRODUCT SUB-CATEGORY:** Single Hung

**PRODUCT NAME:** **SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT**

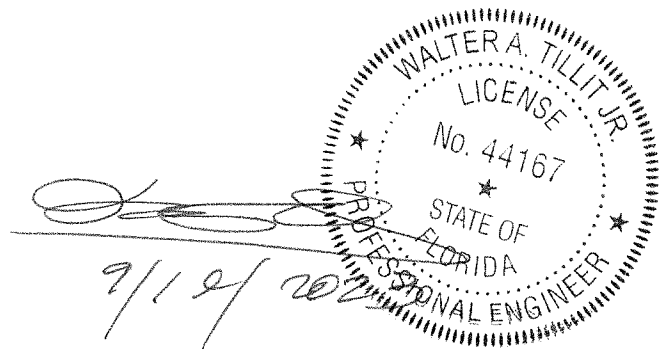
**MANUFACTURER:** **GIG WINDOWS & DOORS**  
290 West 78<sup>th</sup> Road  
Hialeah, FL 33014

### 1. PURPOSE OF EVALUATION:

This is a Product Evaluation Report issued by **Walter A. Tillit, Jr., P.E.** (System ID # 1906) to **GIG WINDOWS & DOORS**, based on **Rule Chapter No. 61G20-3, Method 1D** of the Florida Department of Business and Professional Regulation.

This product is being issued an Evaluation Report as described herein and has been verified for compliance in accordance with the 2023 8th Edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

This Product Evaluation Report shall be subject to review and revision in case of a Building Code change that may affect its limitations and conditions.



## **2. EVIDENCE SUBMITTED:**

### **2.1. PRODUCT EVALUATION DOCUMENT (P.E.D.):**

**Drawing No. 23-217**, titled “**SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT**” sheets 1 thru 10(Includes 2A, 5A, 6A, 7A) prepared by **Tilteco, Inc.**; signed and sealed by **Walter A. Tillit, Jr., P.E.**; dated **09/13/2023**. This drawing is an integral part of this Evaluation Report.

### **2.2. TEST REPORTS:**

Impact and Cyclic Tests as per protocol TAS-201, TAS-203, Uniform Static Load as per Protocol TAS 202 per sections 1626 and 1609.1.2, respectively of the Florida Building Code.

Test reports prepared by Fenestration Testing Lab Inc., Report No.5807, signed and sealed by Michael R. Wenzel, P.E.

### **2.3. STRUCTURAL ENGINEERING CALCULATIONS:**

On Series 20000 high impact single hung window large missile impact resistant for Maximum Pressure Rating vs. Maximum anchor spacing, maximum width and height, and Maximum Glass Size, based on rational and comparative analysis, in accordance with sections 1604 and 1616 of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated 06/04/2015, signed and sealed by Walter A. Tillit, Jr., P.E. Glass verified per ASTM – E-1300-9a, per section 2404.1 of the Florida Building Code.

## **3. MISSILE IMPACT RESISTANCE:**

Large Missile Impact resistance is provided per TAS 201 (9 lbs., 50 feet/sec).

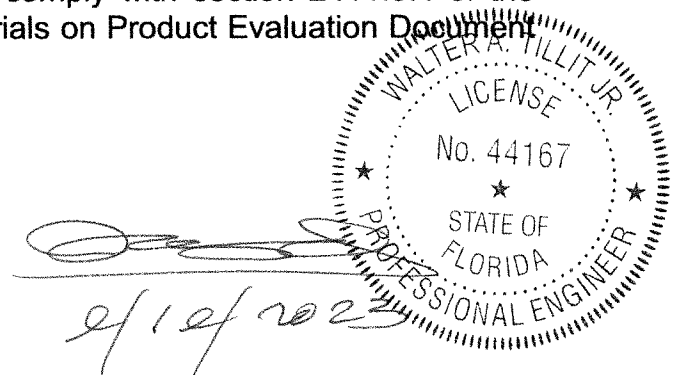
## **4. WIND LOADS RESISTANCE:**

On Series 20000 high impact single hung window large missile impact resistant has been verified to keep sustain wind pressures. Maximum Glass Panel Dimensions, window dimensions shall be as indicated on Product Evaluation Document (P.E.D.), Drawing No. **23-217**

## **5. INSTALLATION:**

Installation shall be performed strictly in accordance with General Notes # 3 thru 13, indicated on sheet 1 and details indicated on Product Evaluation Document (P.E.D.), drawing No. **23-217**.

Gaskets and setting blocks used at installations comply with section 2411.3.4 of the Florida Building Code as specified on Bill of Materials on Product Evaluation Document (P.E.D.), drawing No. **23-217**.



**6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:**

Shall be strictly in accordance with General Notes and Components indicated on Product Evaluation Document (P.E.D.), **Drawing No. 23-217.**

Anchor specifications shall be as indicated on sheets 1, of Product Evaluation Document (P.E.D.), Drawing No. **23-217** Anchor spacing as per P.E.D., Drawing No. **23-217.**

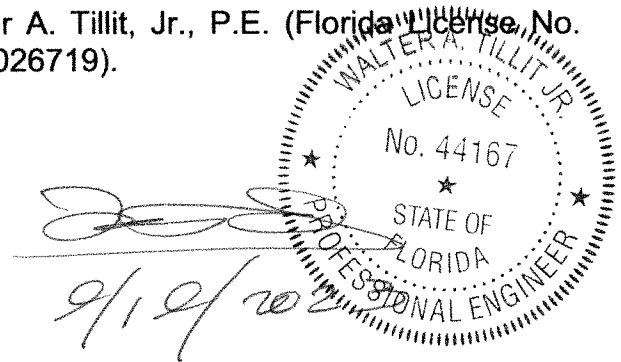
**7. LIMITATIONS AND CONDITIONS OF USE:**

7.1. Shall be strictly in compliance with General Notes No. 1 thru 5, indicated on sheet 1 of Product Evaluation Document (P.E.D.), Drawing No. **23-217** prepared by Tilteco, Inc. and signed and sealed by Walter A. Tillit, Jr., P.E.

7.2. Product **may** be installed within HIGH VELOCITY HURRICANE ZONES as defined on section 202 the Florida Building Code and out of it.

7.3. Product shall only be installed into substrates with limitations as indicated on Product Evaluation Document (P.E.D.), Drawing No. **23-217.**

Product Evaluation Report prepared by Walter A. Tillit, Jr., P.E. (Florida License No. 44167), President of Tilteco, Inc. (Florida CA-0026719).



A circular professional engineer seal for the State of Florida. The seal contains the text: "WALTER A. TILLIT JR.", "LICENSE", "No. 44167", "STATE OF FLORIDA", and "PROFESSIONAL ENGINEER". There are two stars on either side of the license number. A handwritten signature is written over the seal, and the date "9/19/2022" is written below it.

WAT\MA

D:\TILTECO ADMON RECORDS \ P. E. REPORT.23 \ GIG WINDOWS & DOORS \ SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT\ DRWG # 23-217 \ REPORT # 23-0919.08

**GENERAL NOTES:**

1. SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE **2023 (8th EDITION)** OF THE FLORIDA BUILDING CODE. SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (H.V.H.Z) OR OUT OF IT. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS **1620 & 1609** OF THE ABOVE MENTIONED CODE, USING **ASCE 7-22** AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2 BELOW.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER **ASCE 7-22** SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2 BELOW.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS **NOT** USED IN THEIR ANALYSIS. FASTENERS SPACING IN WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018.

THIS WINDOW'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS **1626 & 1609.1.2** OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER FENESTRATION TESTING LABORATORY REPORT # 5807 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS **1616 & 1604** OF THE FLORIDA BUILDING CODE. GLASS HAS BEEN VERIFIED PER ASTM E-1300, PER SECTION 2404.1 OF THE FLORIDA BUILDING CODE.

2. **MAXIMUM A.S.D. DESIGN PRESSURE RATINGS FOR THIS WINDOW SHALL BE AS SHOWN ON SHEET 4 (SCHEDULE #1).**

3. **THIS SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.**

4. **THIS SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT IS APPROVED FOR AIR AND WATER INFILTRATION (SEE SCHEDULE #1 ON SHEET 4).**

5. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER, WITH  $F_y = 25.0$  ksi MINIMUM. THE THICKNESS OF ALL EXTRUSIONS SHALL BE AS SHOWN ON THIS DRAWING. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.

6. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTIONS 2411.3.3.3 & 2411.3.3.4.

7. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE #2,  $G=0.55$ . AND SHALL COMPLY WITH SECTIONS 2411.3.3.3 & 2411.3.3.4 OF THE FLORIDA BUILDING CODE.

(7.1) 2 x WOOD BUCKS MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. ANCHORAGE IS INDEPENDENT OF WINDOW FRAME ANCHORAGE. WINDOW FRAME MUST BE SEPARATELY ANCHORED TO 2 x WOOD BUCK FOLLOWING DETAILS ON THIS DRAWING.

(7.2) 1 x WOOD BUCK (OR ANY WOOD BUCK LESS THAN 2X) MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. WINDOW FRAME ANCHOR SHALL BE USED TO ATTACH 1X WOOD BUCK TO EXISTING STRUCTURE BY DRIVING ANCHOR THRU BOTH WINDOW FRAME & 1 x WOOD BUCK INTO EXISTING STRUCTURE W/ PROPER EMBEDMENT AND EDGE DISTANCE AS SHOWN ON THIS DRAWING.

(7.3) WINDOW FRAME MAY BE DIRECTLY CONNECTED TO EXISTING STRUCTURE WITH NO NEED OF WOOD BUCKS WHEN MASONRY OPENING IS NOT LARGER THAN ACTUAL WINDOW OVERALL DIMENSIONS. HOWEVER, SHIMS (SEE NOTE 9) MAY BE ALLOWED AT WINDOW FRAME ANCHOR LOCATION IF NEEDED.

**8. ANCHOR NOTES:** EMBEDMENT AND EDGE DISTANCE ARE BEYOND ANY FINISH.

(A) TO EXISTING POURED CONCRETE: (MIN.  $f'_c = 3192$  psi), MIN. EDGE DISTANCE (E.D.) =  $2 \frac{1}{2}$ ".  
-  $\frac{1}{4}$ " $\phi$  TAPCON ANCHOR W/  $1 \frac{1}{4}$ " MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT **(22)**), THRU 1" P.T. WOOD BUCK.

(B) TO EXISTING A.S.T.M. C-90 CONCRETE BLOCK WALL. MIN. EDGE DISTANCE (E.D.) =  $2 \frac{1}{2}$ ".  
-  $\frac{1}{4}$ " $\phi$  TAPCON ANCHOR W/  $1 \frac{1}{4}$ " MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT **(22)**), THRU 1" P.T. WOOD BUCK.

(C) TO EXISTING 2xP.T. WOOD BUCK. MIN. EDGE DISTANCE (E.D.) = 1".  
-  $\frac{1}{4}$ " $\phi$ -14 TEK SCREW ANCHORS OR  $\frac{1}{4}$ " $\phi$  TAPCON ANCHORS W/  $1 \frac{1}{2}$ " MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT **(23)**).

(D) TO EXISTING MIN.  $\frac{1}{8}$ " THICK ALUMINUM TUBE (6063-T5 ALLOY) MIN. EDGE DISTANCE (E.D.) =  $\frac{1}{2}$ ".  
-  $\frac{1}{4}$ " $\phi$ -14 TEK SCREW, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT **(23)**).

(E) TO EXISTING MIN. 12 GAGE STEEL MEMBER (ASTM A-500, A-653 OR A-36) MIN. EDGE DISTANCE (E.D.) =  $\frac{1}{2}$ ".  
-  $\frac{1}{4}$ " $\phi$ -14 TEK SCREW, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT **(23)**).

9. PROVIDE  $\frac{1}{4}$ " MAX. LOAD BEARING SHIM SPACE (TYP.).

10. REMAINING COMPONENTS FOR THIS ALUMINUM SINGLE HUNG WINDOW SYSTEM SHALL BE AS INDICATED ON BILL OF MATERIALS, SHEET 3 OF THIS DRAWING.

11. SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT MANUFACTURER'S LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.9.3 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY UNIT. LABEL TO COMPLY WITH SECTION 1709.9.2 OF THE FLORIDA BUILDING CODE.

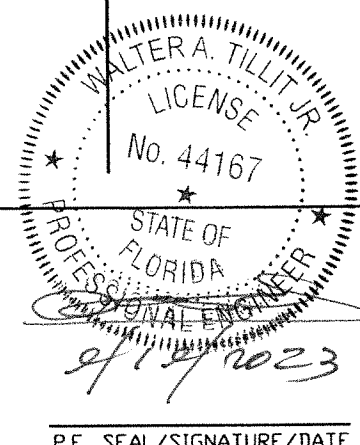
12. (a) THIS P.E.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS P.E.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(d) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

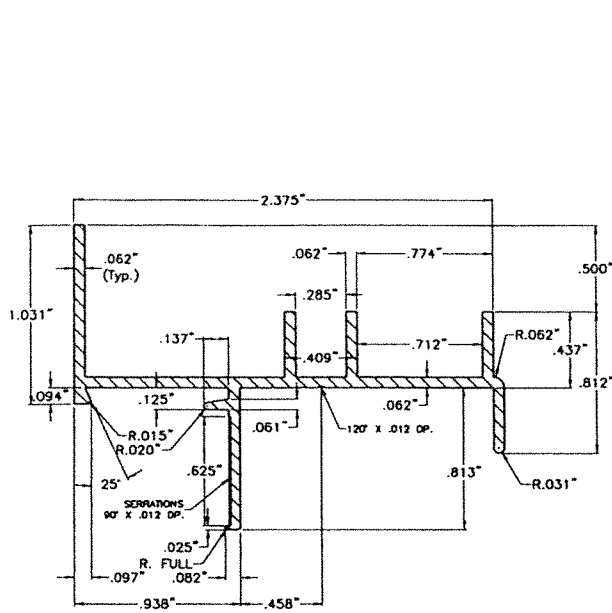
**THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA**



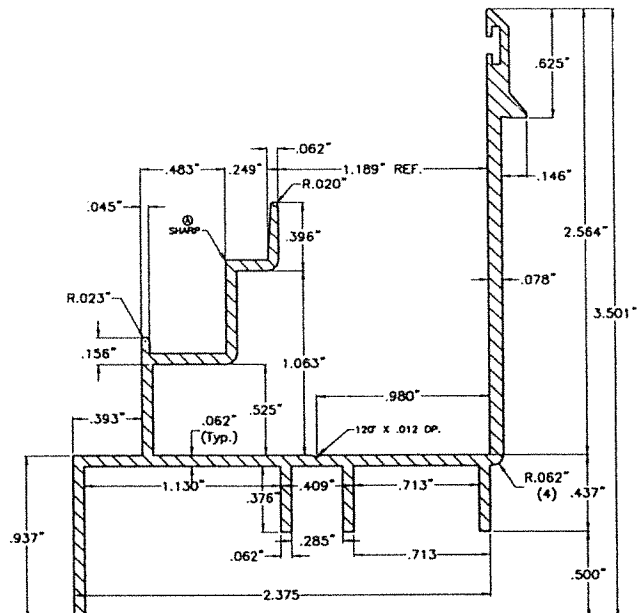
**FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)**

©2023 TILTECO, INC.  
**TILTECO inc.**  
 TILLIT TESTING & ENGINEERING COMPANY  
 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166  
 Phone : (305)871-1530 . Fax : (305)871-1531  
 CA-0006719  
 WALTER A. TILLIT Jr. P.E.  
 FLORIDA Lic. # 44167

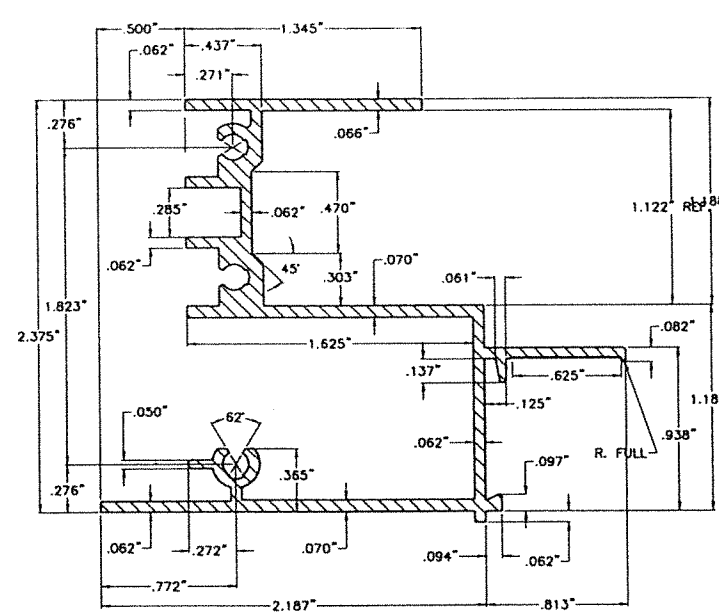
<b>SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT</b>				W.H. DRAWN BY:	
				09/13/2023	
290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com				DATE:	
				<b>23-217</b>	
				DRAWING No.	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-222	09/15/23	3	-	-
2	-	-	4	-	-



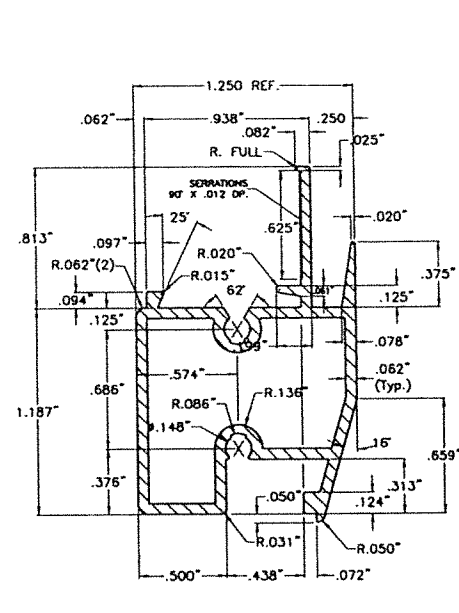
**① FRAME HEAD**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER



**② FRAME SILL**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER

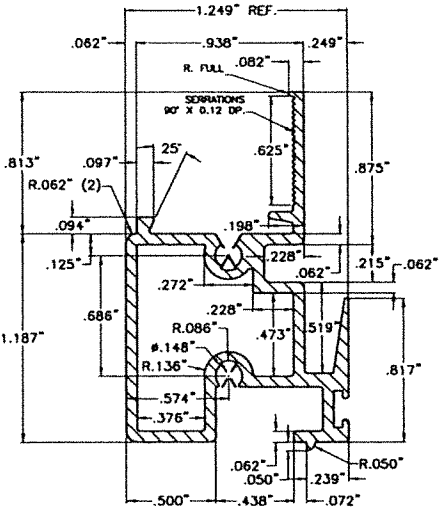


**③ FRAME JAMB**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER

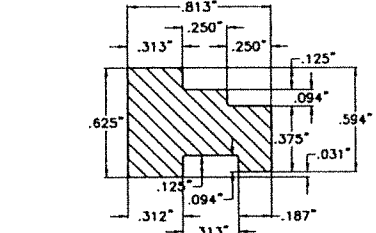


**④ FIXED MTG. RAIL**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER

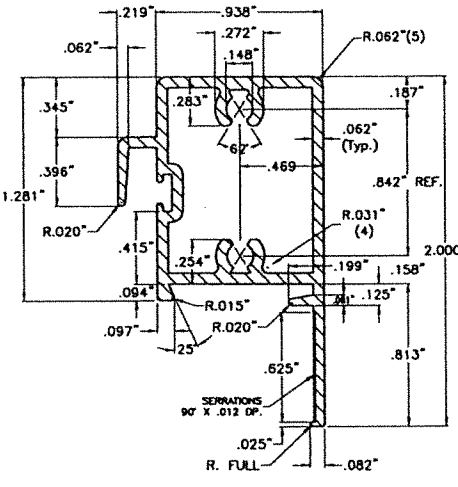
**④I ALUM. INSERT BAR FOR ④**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER



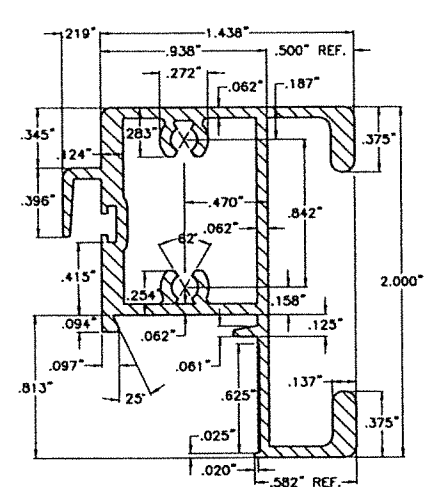
**④A ALTERNATIVE FIXED MTG. RAIL**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER



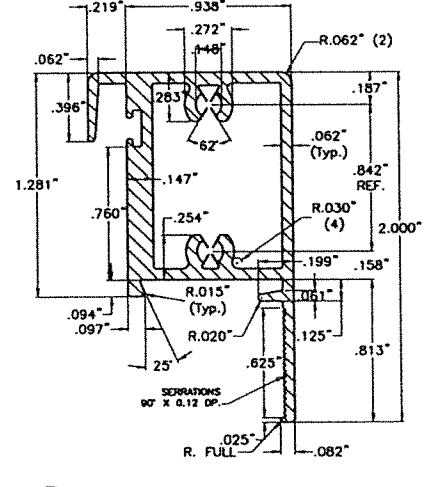
**④AI ALUM. INSERT BAR FOR ④A**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER



**⑤ VENT TOP RAIL**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER



**⑤A H.D. VENT TOP RAIL**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER



**⑤B ALTERNATIVE VENT TOP RAIL**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER

**⑤AI ALUM. INSERT BAR FOR ⑤A & ⑤B**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER

**COMPONENTS**

WALTER A. TILLIT JR.  
LICENSE  
No. 44167  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
9/19/2023  
P.E. SEAL/SIGNATURE/DATE

©2023 TILTECO, INC.  
**TILTECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166  
Phone : (305)871-1530 . Fax : (305)871-1531  
CA-0006719  
WALTER A. TILLIT Jr. P.E.  
FLORIDA Lic. # 44167

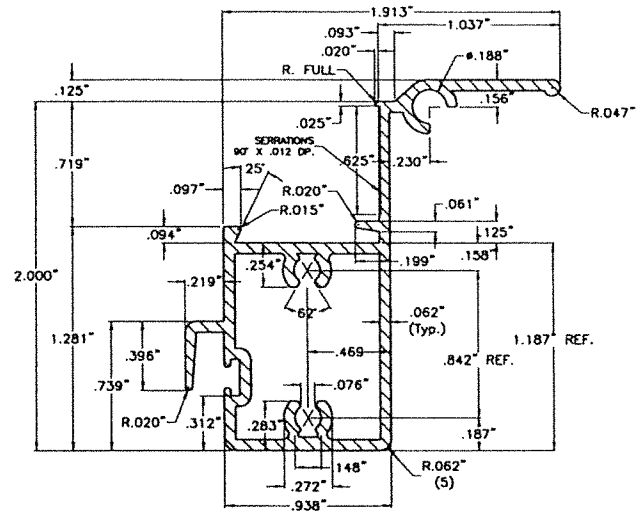
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

**SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT**

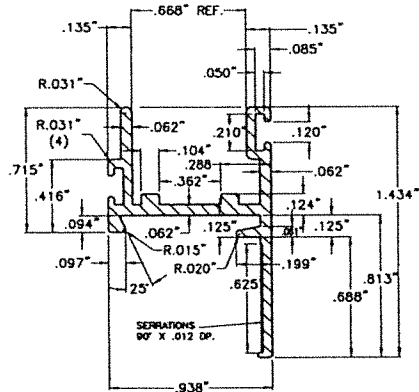
290 WEST 78 ROAD  
HALEAH, FL 33014  
PH: (954)226-5555/(305)558-8103  
FAX: (305)558-6665  
www.gigwindows.com

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

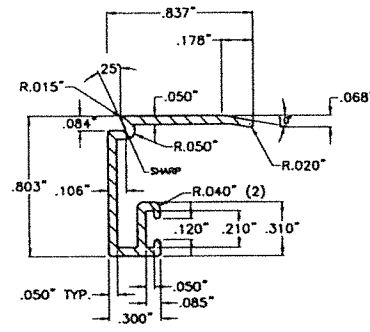
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DRAWN BY:  
09/13/2023  
DATE:  
**23-217**  
DRAWING No.  
SHEET 2 OF 10



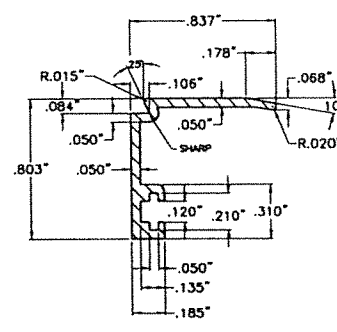
**⑥ VENT BOTTOM RAIL**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER



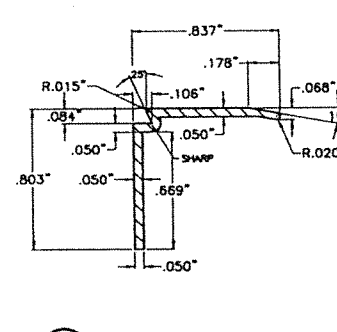
**⑦ VENT SIDE RAIL**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER



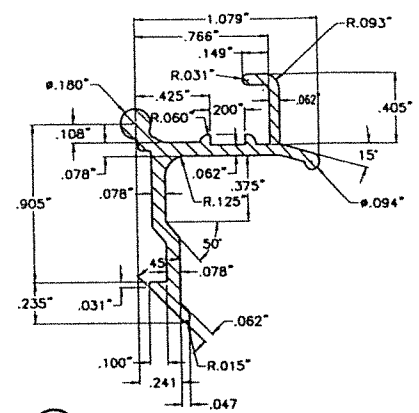
**⑧ GLAZING BEAD FOR 5/16" GLASS**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER



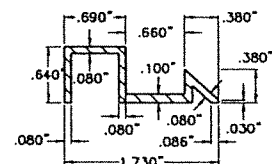
**⑧A GLAZING BEAD FOR 7/16" GLASS**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER



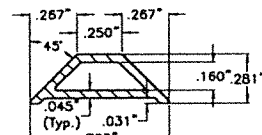
**⑧B GLAZING BEAD FOR 11/16" GLASS**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER



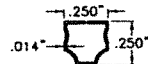
**⑨ VENT LATCH**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER



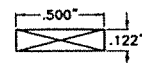
**⑬ SASH CAM**  
SCALE 1/2" = 1"  
6063-T6 ALLOY & TEMPER



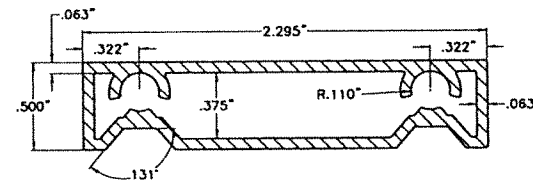
**⑭ COLONIAL MUNTIN**  
SCALE 1" = 1"  
6063-T5 ALLOY & TEMPER



**⑰ INSULATED GLASS UNIT SPACER**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER

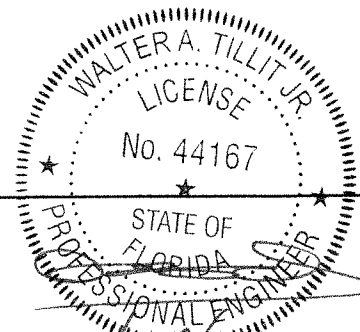


**⑱ SETTING BLOCK E.P.D.M.**  
SCALE 1" = 1"



**⑲ EQUAL LEG ADAPT.**  
SCALE 1" = 1"  
6063-T6 ALLOY & TEMPER

**COMPONENTS**



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

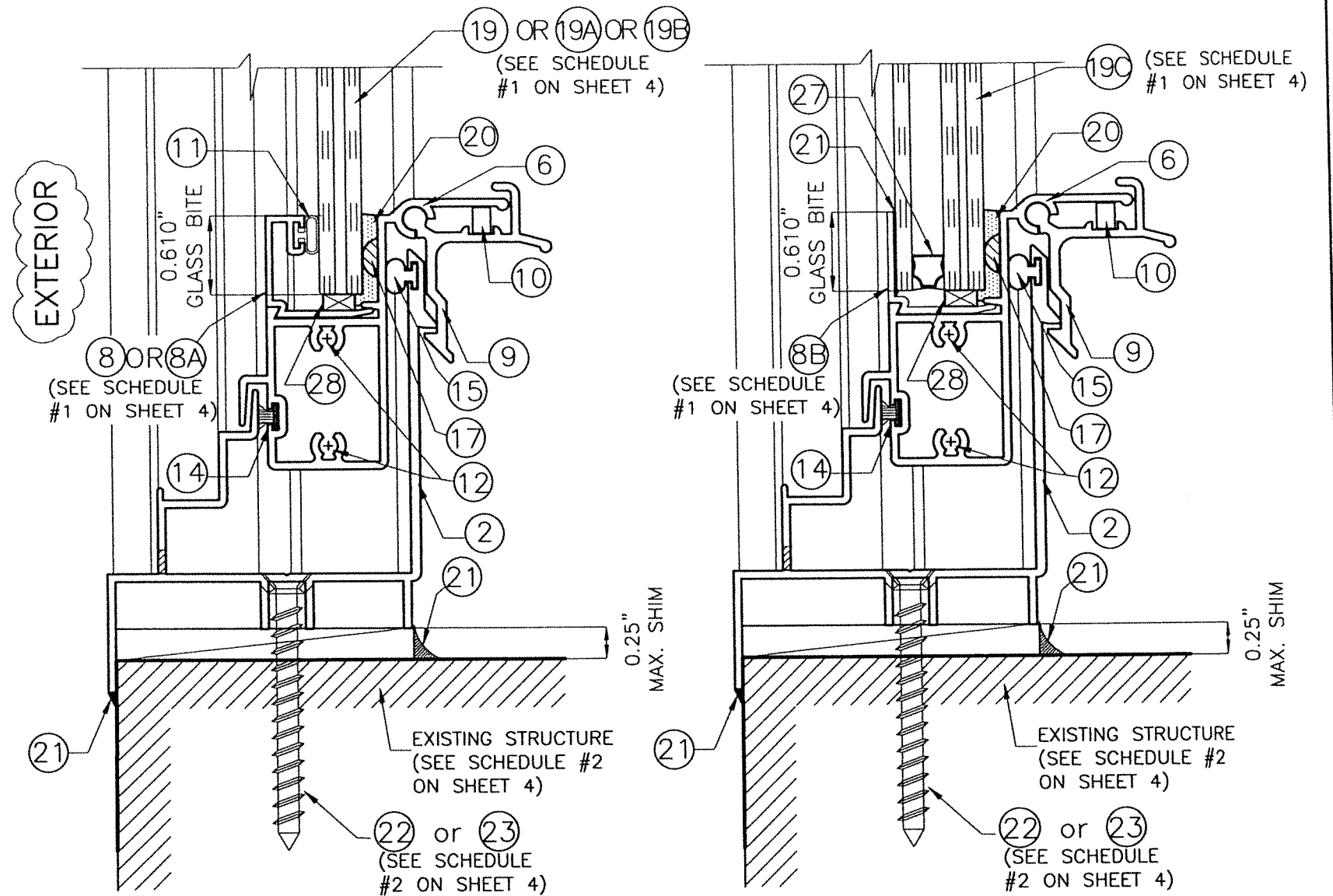
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TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166  
Phone : (305)871-1530 . Fax : (305)871-1531  
CA-0006719  
WALTER A. TILLIT Jr. P.E.  
FLORIDA Lic. # 44167

SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT					
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-222	09/13/23	3	-	-
2	-	-	4	-	-

W.H DRAWN BY:	09/13/2023 DATE:
<b>23-217</b> DRAWING No.	
SHEET 2A OF 10	

# BILL OF MATERIALS

ITEM #	DESCRIPTION	MATERIAL
①	FRAME HEAD	6063-T6
②	FRAME SILL	6063-T6
③	FRAME JAMB	6063-T6
④	FIXED MEETING RAIL	6063-T6
④A	ALT. FIXED MEETING RAIL	6063-T6
④I	ALUMINUM INSERT BAR FOR ④	6063-T6
④AI	ALUMINUM INSERT BAR FOR ④A	6063-T6
⑤	VENT TOP RAIL	6063-T6
⑤A	H.D VENT TOP RAIL	6063-T6
⑤B	ALT. VENT TOP RAIL	6063-T6
⑤AI	ALUMINUM INSERT BAR FOR ⑤A & ⑤B	6063-T6
⑥	VENT BOTTOM RAIL	6063-T6
⑦	VENT SIDE RAIL	6063-T6
⑧	GLAZING BEAD FOR 5/16" GLASS	6063-T6
⑧A	GLAZING BEAD FOR 7/16" GLASS	6063-T6
⑧B	GLAZING BEAD FOR 11/16" GLASS	6063-T6
⑨	VENT LATCH @ 6" FROM ENDS	6063-T6
⑩	LATCH SPRING	ST. STEEL
⑪	GLAZING BULB VINYL	NEOPRENE
⑫	FRAME & VENT ASSEMBLY SCREWS, (20) #8 x 1" PH SMS	ST. STEEL
⑬	SASH CAM	6063-T6
⑭	VENT WEATHER STRIPPING	-
⑮	FRAME SILL WEATHER STRIPPING	-
⑯	BLOCK & TACKLE BALANCE	-
⑰	BUMPON SPACER, 1/4" DIAMETER HALF SPHERE, CLEAR. 3" FROM CORNERS MAX. AND 12" O.C. (MAX.), AT MID-GLASS BITE ELEVATION, BY FRANK LOWE RUBBEL AND GASKET FLB-28, CLEAR.	SILICONE
⑱	SASH STOP	-
⑲	GLASS, 0.326" OVERALL LAMINATED GLASS WITH (1) 1/8" HEAT STRENGTHENED GLASS + A 0.090" BUTACITE PVB INTERLAYER BY KURARAY AMERICA, INC. + (1) 1/8" HEAT STRENGTHENED GLASS	-
⑲A	GLASS, 0.444" OVERALL LAMINATED GLASS WITH (1) 3/16" HEAT STRENGTHENED GLASS + A 0.090" BUTACITE PVB INTERLAYER BY KURARAY AMERICA, INC. + (1) 3/16" HEAT STRENGTHENED GLASS	-
⑲B	GLASS, 0.444" OVERALL LAMINATED GLASS WITH (1) 3/16" HEAT STRENGTHENED GLASS + A 0.090" SENTRYGLAS INTERLAYER BY KURARAY AMERICA, INC. + (1) 3/16" HEAT STRENGTHENED GLASS	-
⑲C	GLASS, 0.6875" OVERALL INSULATED-LAMINATED GLASS WITH (1) 1/8" TEMPERED GLASS OUTBOARD + 1/4" ARGON SPACER + (1) 1/8" HEAT STRENGTHENED GLASS + A 0.090" BUTACITE PVB INTERLAYER BY KURARAY AMERICA, INC. + (1) 1/8" HEAT STRENGTHENED GLASS INBOARD	-
⑳	DOW CORNING 795	STRUCTURAL SILICONE
㉑	SEALANT, FIXED PANEL FRAME. FRAME ALL AROUND (EXTERIOR AND INTERIOR), FRAME CORNERS AND VENT CORNERS.	SILICONE
㉒	ANCHORS, 1/4"Ø TAPCON ANCHOR BY ITW BUILDDEX, INC.	STEEL
㉓	ANCHORS, 1/4"Ø-14 TEK SCREW BY ITW BUILDDEX, INC TO WOOD BUCK, ALUMNUM TUBE OR STEEL MEMBER.	STEEL
㉔	COLONIAL MUNTIN (OPTIONAL)	6063-T5
㉕	(4) NYLON GUIDES LOCATED AT VENT JAMB STILES AT 4 1/4" AND 35" FROM BOTTOM USING (1) #6 X 1/2" PH SMS.	NYLON
㉖	(2) NYLON GUIDES LOCATED AT EACH END OF VENT MEETING RAIL USING (2) #8 X 1" PH SMS.	NYLON
㉗	INSULATED GLASS SPACER	3105-H24 ALUMINUM
㉘	SETTING BLOCK 0.122"X0.5" (ULTRAFAB)	E.PD.M.
㉙	EQUAL LEG ADAPT.	6063-T6
㉚	EQUAL LEG ADAPT. ASSEMBLY SCREWS, #14 x 2-3/4" F.H. SMS	ST. STEEL
㉛	SASH LOCK WITH (2) #8 x 3/4"	ST. STEEL



**GLAZING DETAIL FOR**  
**⑲, ⑲A & ⑲B**  
**(SECTION)**  
SCALE: N.T.S.

**GLAZING DETAIL FOR**  
**⑲C (SECTION)**  
SCALE: N.T.S.

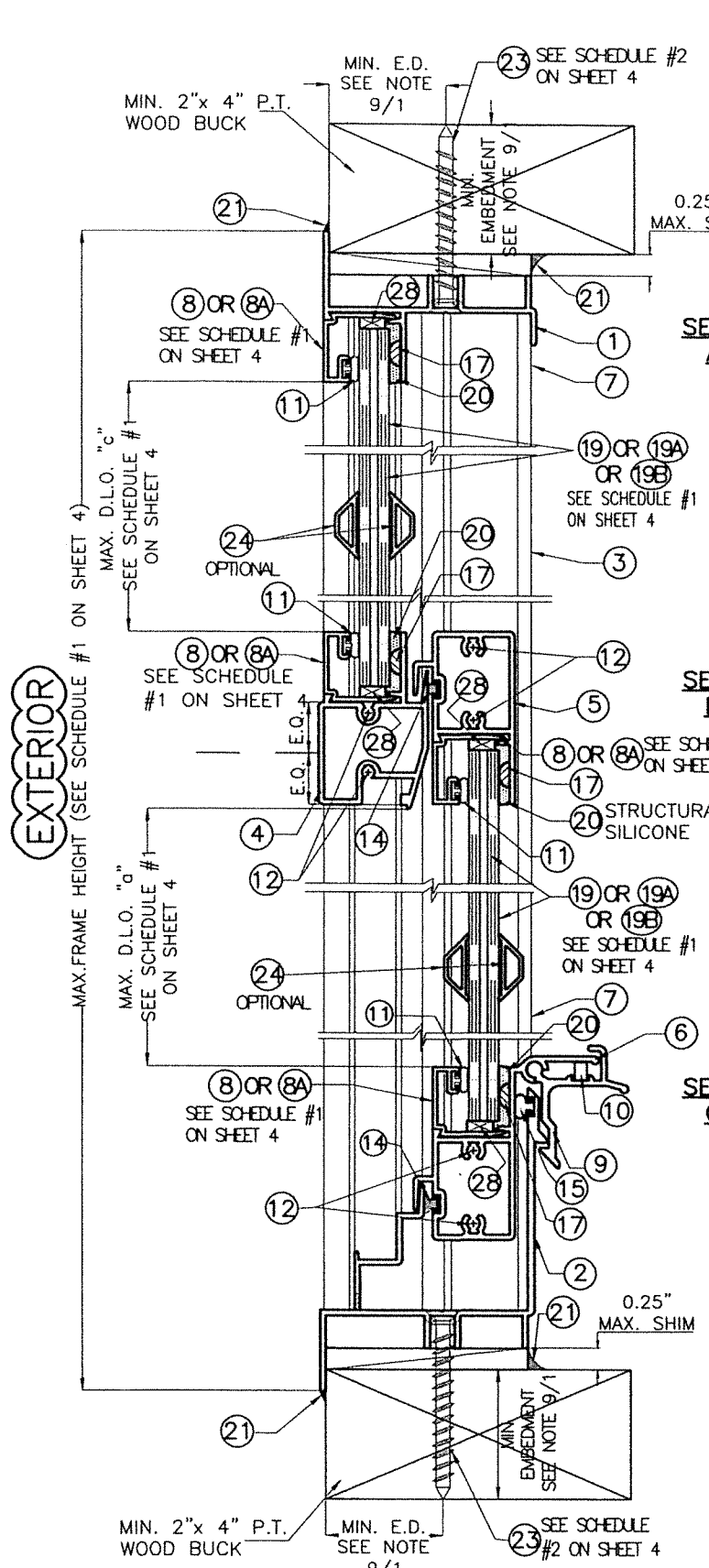
WALTER A. TILLIT JR.  
 LICENSE  
 No. 44167  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 12/31/2023  
 P.E. SEAL/SIGNATURE/DATE

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 Phone: (305)871-1530 Fax: (305)871-1531  
 CA-0006719  
 WALTER A. TILLIT Jr. P.E.  
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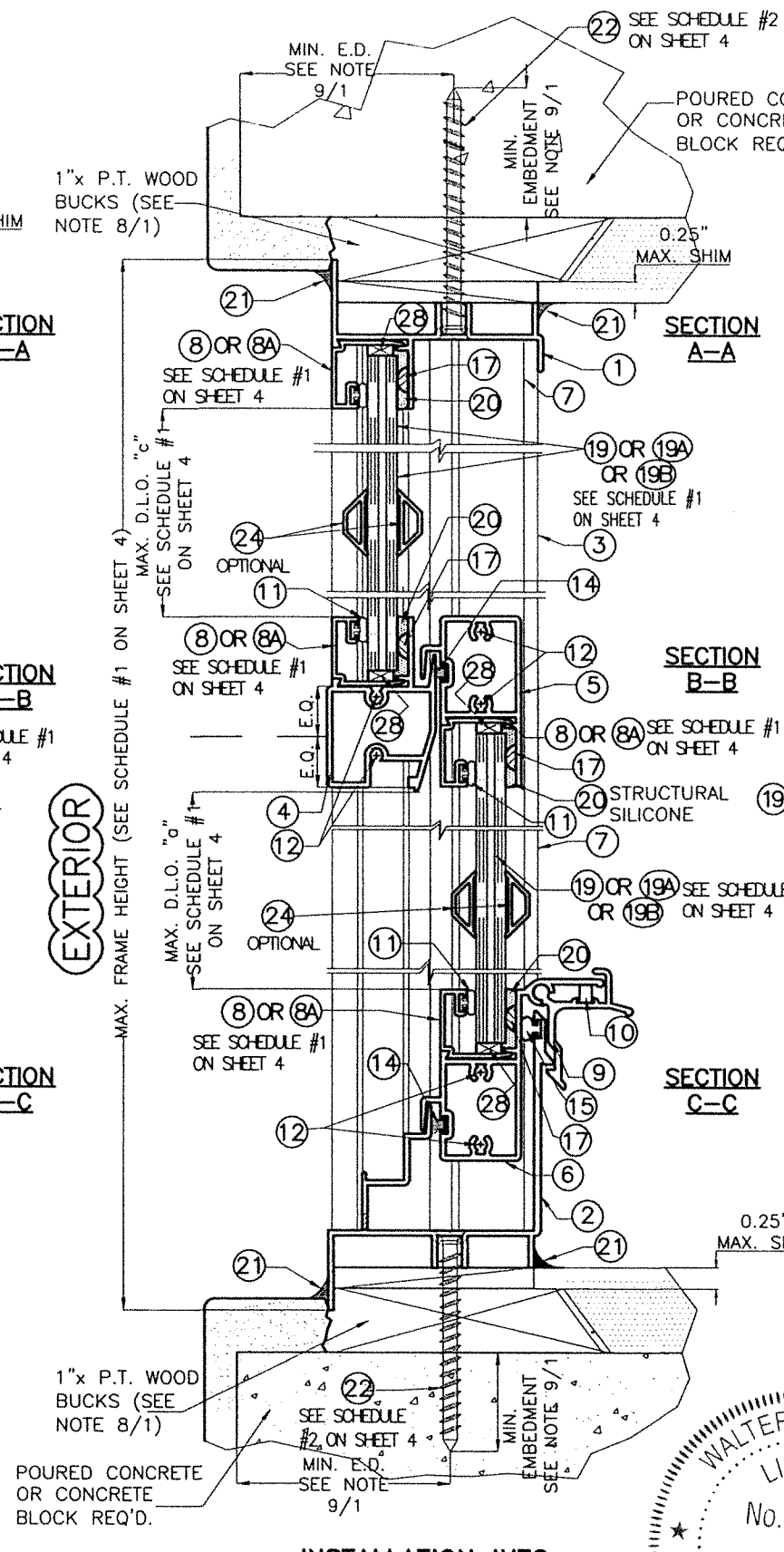
**FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)**

SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT				W.H DRAWN BY:																			
 290 WEST 78 ROAD HIALEAH, FL. 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com				09/13/2023																			
				DATE:																			
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2	-	-	4	-	-																		
				SHEET 3 OF 10																			

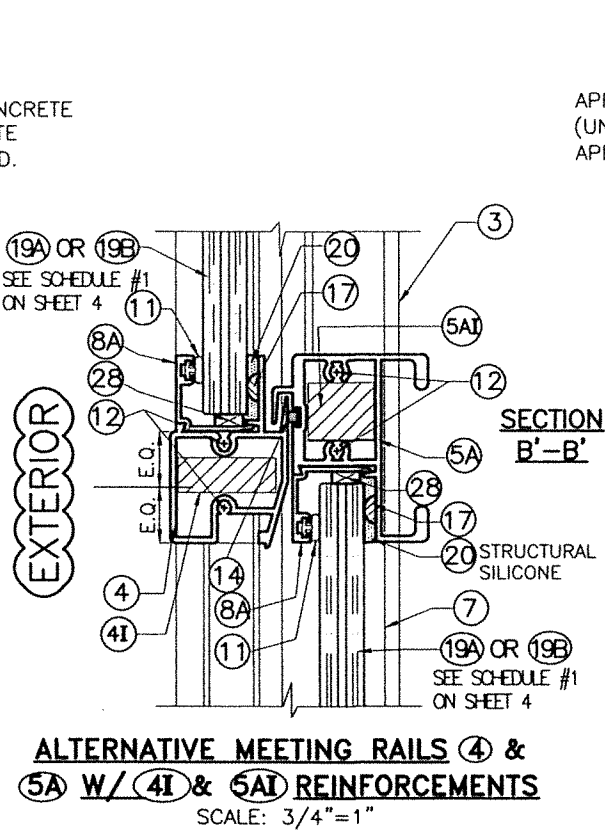




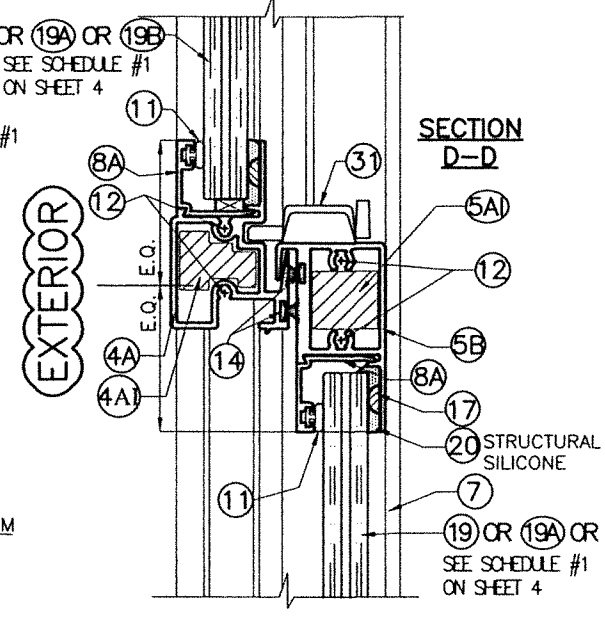
**INSTALLATION INTO WOOD**  
SCALE: 3/4"=1"



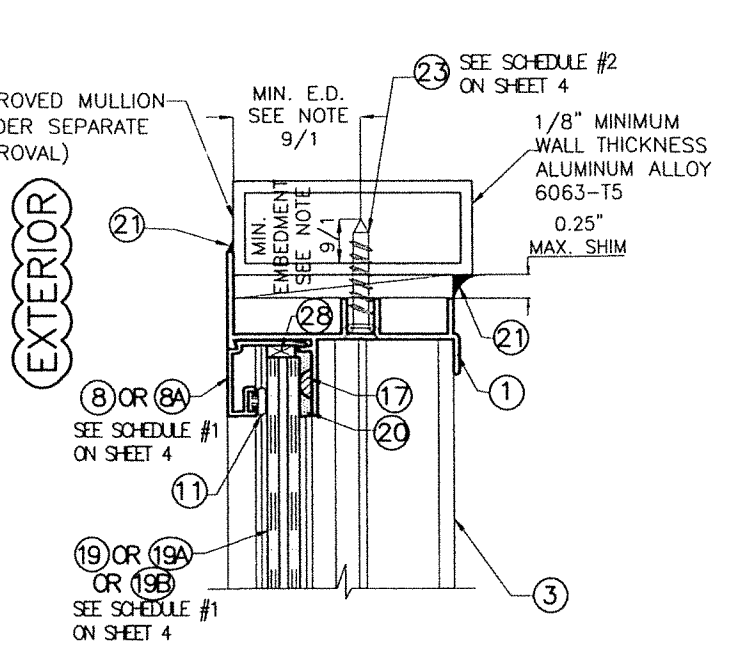
**INSTALLATION INTO  
POURED CONCRETE OR  
CONCRETE BLOCK**  
SCALE: 3/4"=1"



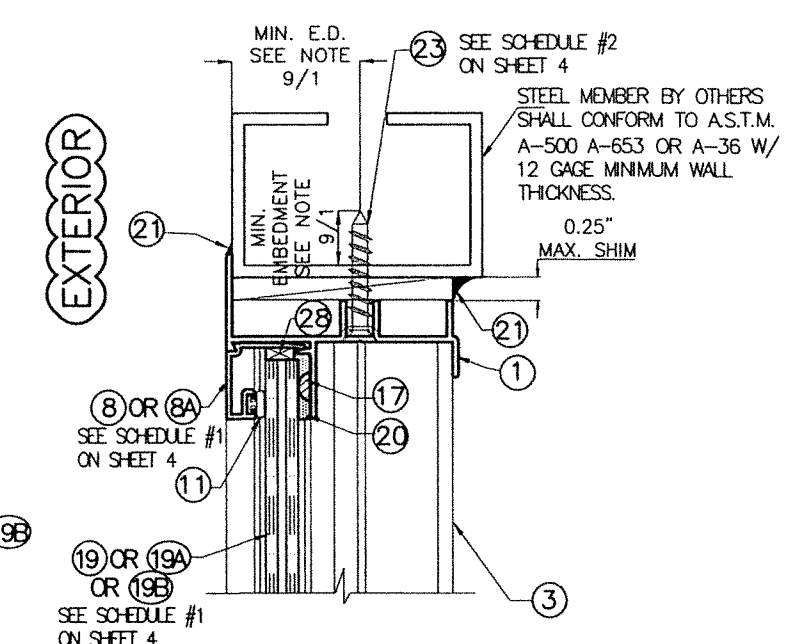
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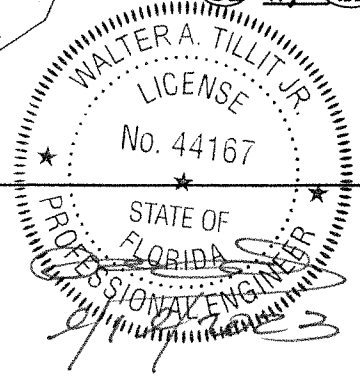
**ALTERNATIVE MEETING RAILS 4A & 5B W/ 4AI & 5AI REINFORCEMENTS**  
SCALE: 3/4"=1"



**SECTION A-A (SECTION C-C sim.)  
INSTALLATION INTO  
ALUMINUM MULLION**  
SCALE: 3/4"=1"



**SECTION A-A (SECTION C-C sim.)  
INSTALLATION INTO  
STEEL MEMBER**  
SCALE: 3/4"=1"



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

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CA-0006719  
WALTER A. TILLIT Jr. P.E.  
FLORIDA Lic. # 44167

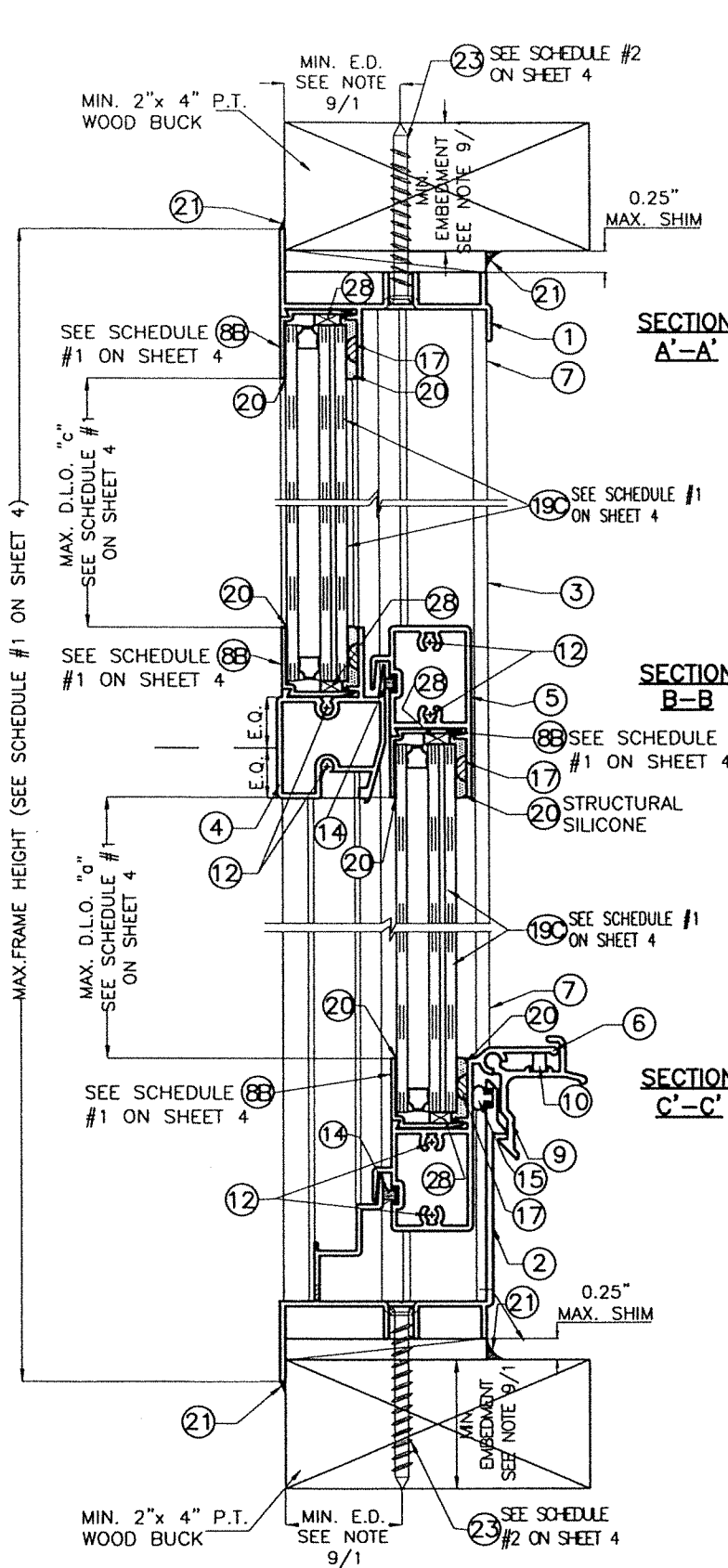
**SERIES 2000 HIGH IMPACT SINGLE HUNG WINDOW  
LARGE MISSILE IMPACT RESISTANT**

290 WEST 78 ROAD  
HIALEAH, FL 33014  
PH: (954)226-5555/(305)558-8103  
FAX: (305)558-6665  
www.gigwindows.com

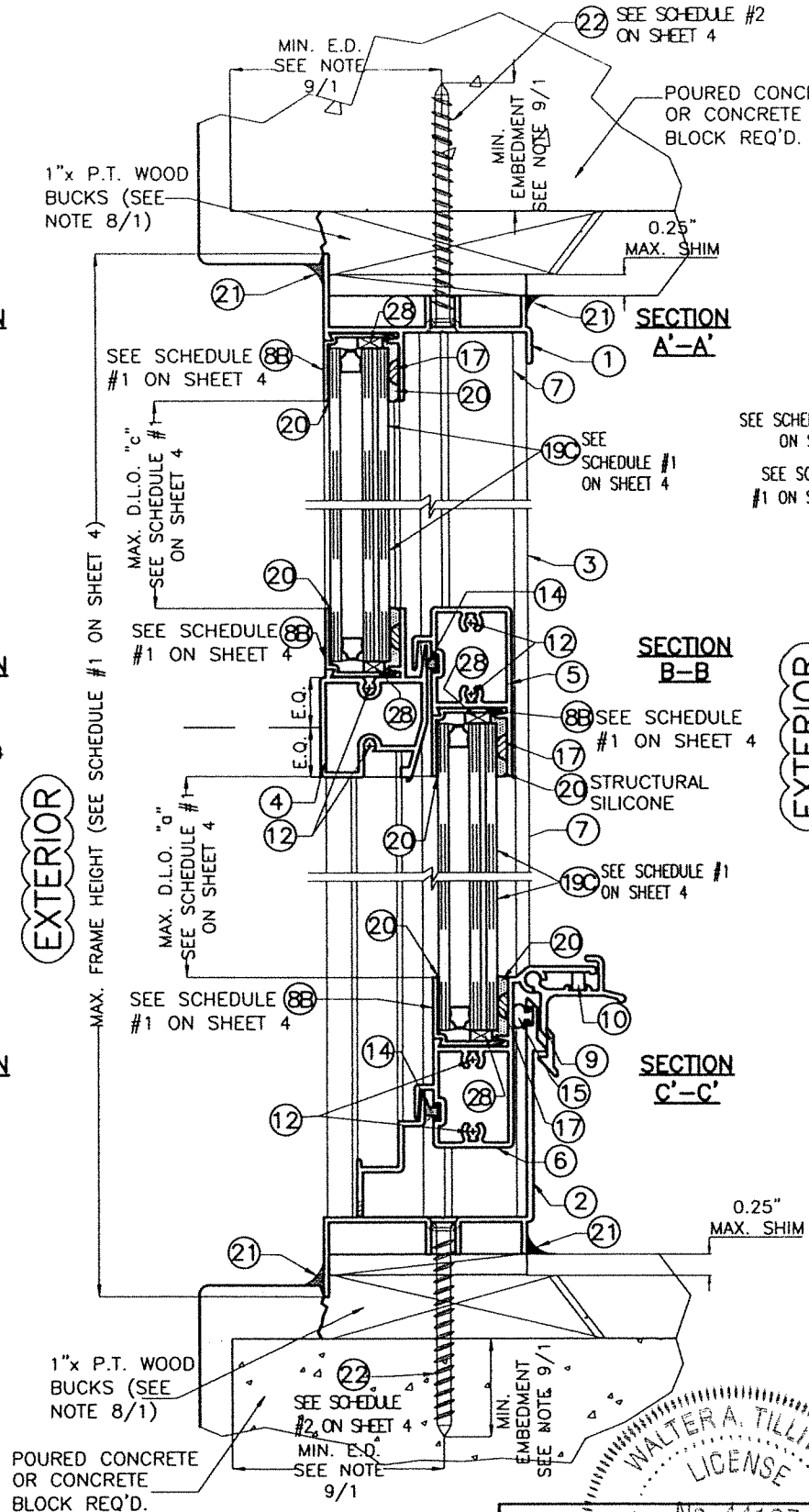
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DRAWN BY:  
09/13/2023  
DATE:  
**23-217**  
DRAWING No.  
SHEET 5 OF 10

EXTERIOR

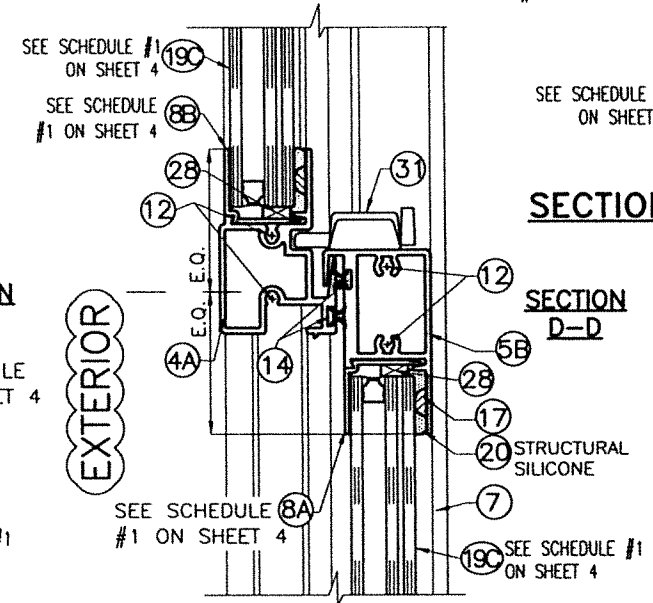


**INSTALLATION INTO WOOD**  
SCALE: 3/4"=1"

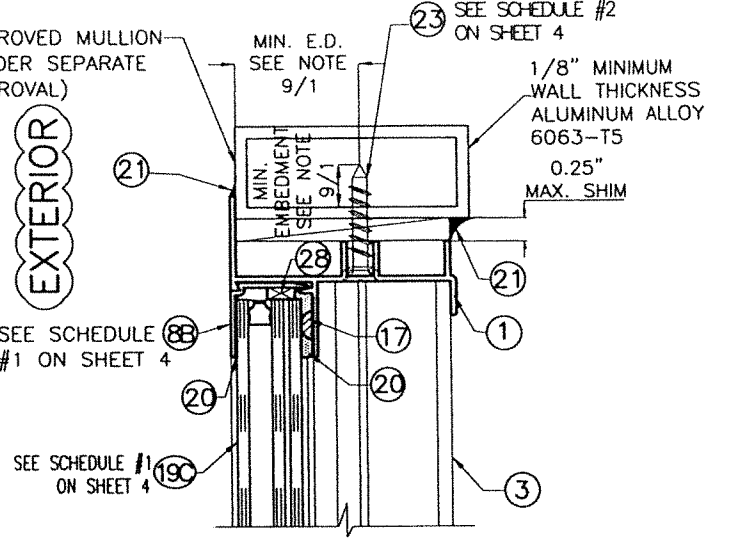


**INSTALLATION INTO POURED CONCRETE OR CONCRETE BLOCK**  
SCALE: 3/4"=1"

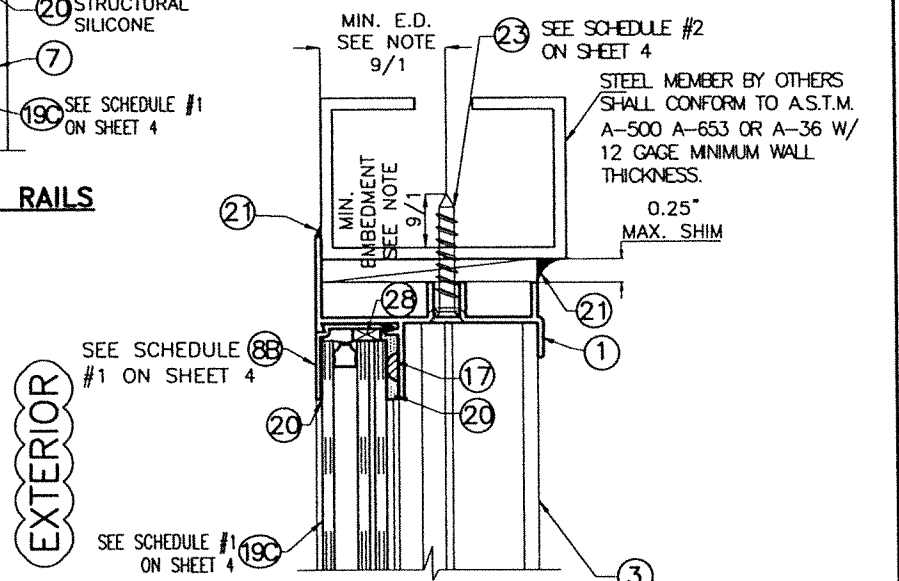
EXTERIOR



**ALTERNATIVE MEETING RAILS**  
**(4A & 5B)**  
SCALE: 3/4"=1"



**SECTION A'-A' (SECTION C'-C' sim.)**  
**INSTALLATION INTO ALUMINUM MULLION**  
SCALE: 3/4"=1"



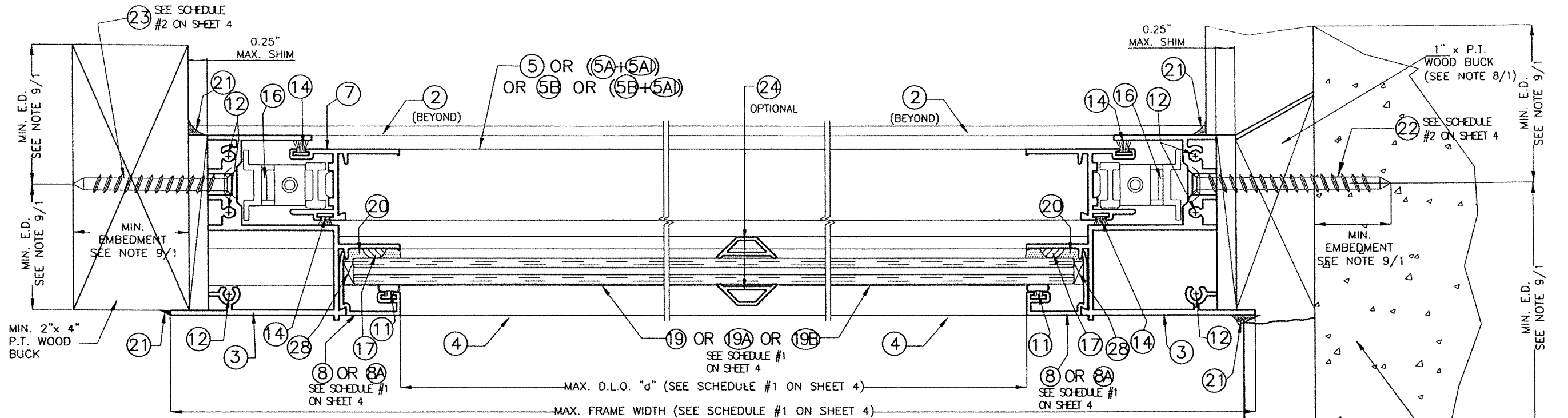
**SECTION A'-A' (SECTION C'-C' sim.)**  
**INSTALLATION INTO STEEL MEMBER**  
SCALE: 3/4"=1"

**FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)**

WALTER A. TILLIT JR.  
LICENSE  
No. 44167  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
P.E. SEAL/SIGNATURE/DATE

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FLORIDA Lic. # 44167

SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT				W.H DRAWN BY:	
				09/13/2023	
				DATE:	
290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com				23-217	
DRAWING No.				SHEET 5A OF 10	
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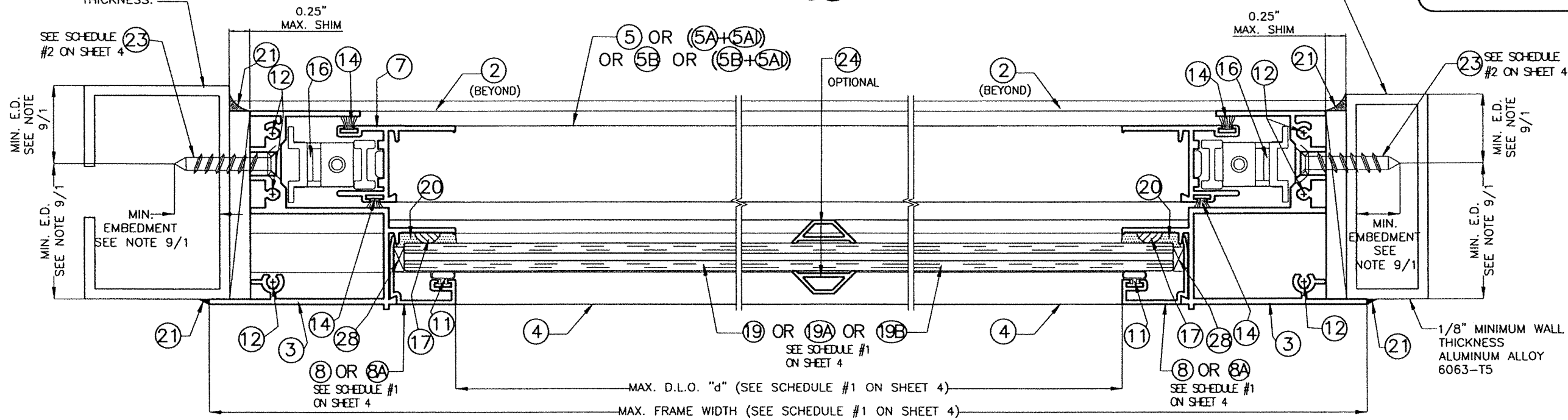


**EXTERIOR**

STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 12 GAGE MINIMUM WALL THICKNESS.

APPROVED MULLION (UNDER SEPARATE APPROVAL)

POURED CONCRETE OR CONCRETE BLOCK WALL REQ'D.



**EXTERIOR**

**SECTIONS D-D  
INSTALLATIONS INTO WOOD, POURED CONCRETE,  
CONCRETE BLOCK OR METAL.**

SCALE 1/2" = 1"

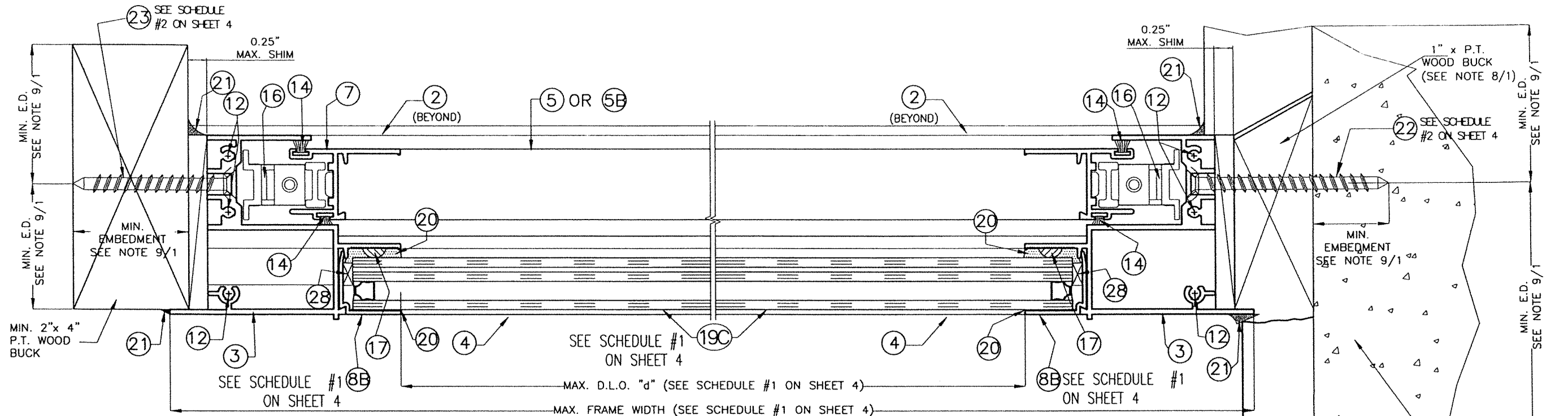
WALTER A. TILLIT JR.  
LICENSE  
No. 44167  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
9/2023  
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<b>SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT</b>				W.H DRAWN BY:	
				290 WEST 78 ROAD HALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com	
				09/13/2023 DATE:	
<b>23-217</b>				DRAWING No.	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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SHEET 6 OF 10

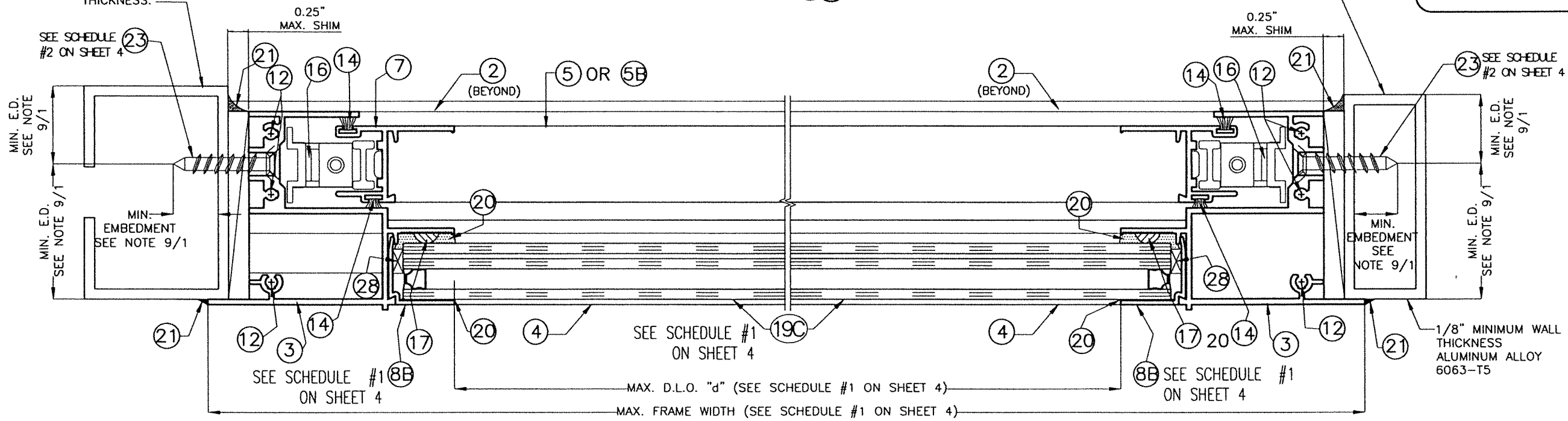


EXTERIOR

STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 12 GAGE MINIMUM WALL THICKNESS.

APPROVED MULLION (UNDER SEPARATE APPROVAL)

POURED CONCRETE OR CONCRETE BLOCK WALL REQ'D.




EXTERIOR

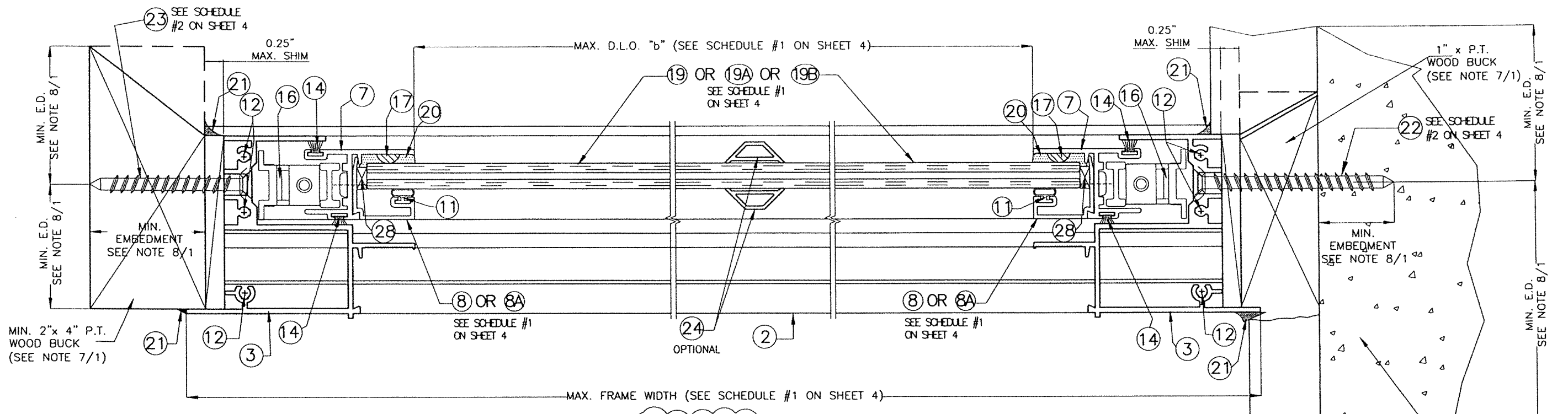
**SECTIONS D-D**  
**INSTALLATIONS INTO WOOD, POURED CONCRETE,**  
**CONCRETE BLOCK OR METAL.**  
 SCALE 1/2" = 1"

WALTER A. TILLIT JR.  
 LICENSE  
 No. 44167  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 4/2023  
 P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

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						<b>23-217</b> DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 6A OF 10
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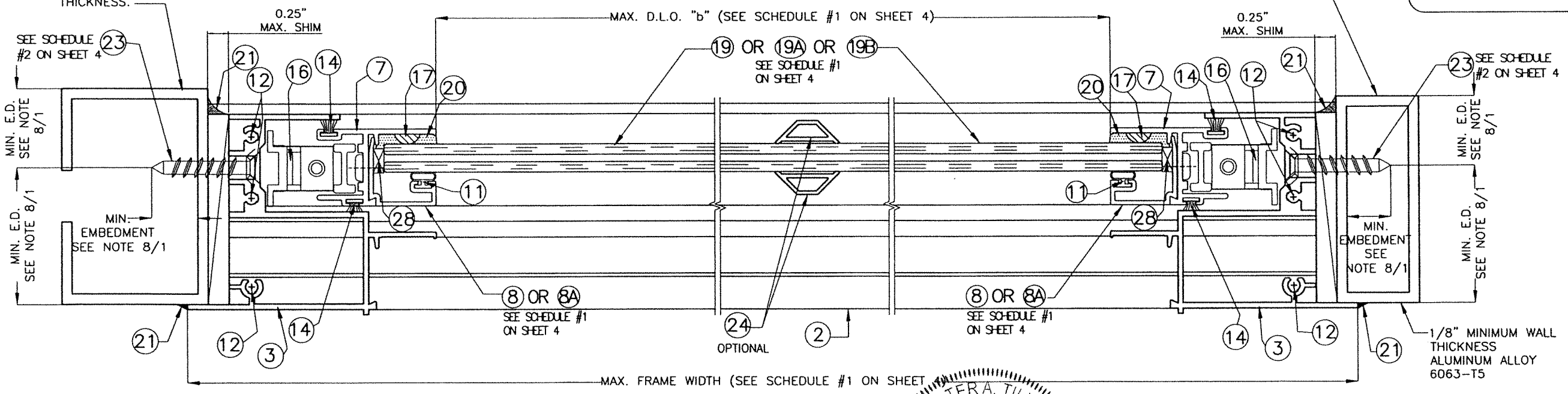


**EXTERIOR**

STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 12 GAGE MINIMUM WALL THICKNESS.

APPROVED MULLION (UNDER SEPARATE APPROVAL)

POURED CONCRETE OR CONCRETE BLOCK WALL REQ'D.




**EXTERIOR**

WALTER A. TILLIT JR.  
 LICENSE  
 No. 44167  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 9/19/2023  
 P.E. SEAL/SIGNATURE/DATE

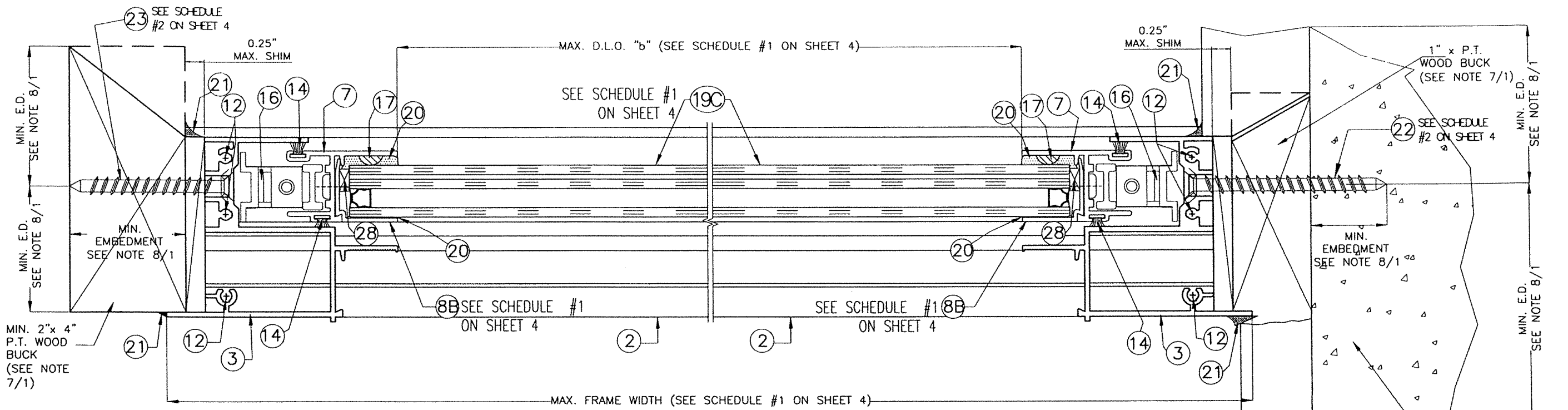
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

**SECTIONS E-E**  
**INSTALLATIONS INTO WOOD, POURED CONCRETE,**  
**CONCRETE BLOCK OR METAL.**  
 SCALE 1/2" = 1"

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 WALTER A. TILLIT Jr. P.E.  
 FLORIDA Lic. # 44167

SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT				W.H DRAWN BY:	
 290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com				09/13/2023 DATE:	
				<b>23-217</b> DRAWING No.	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-222	09/13/23	3	-	-
2	-	-	4	-	-

SHEET 7 OF 10

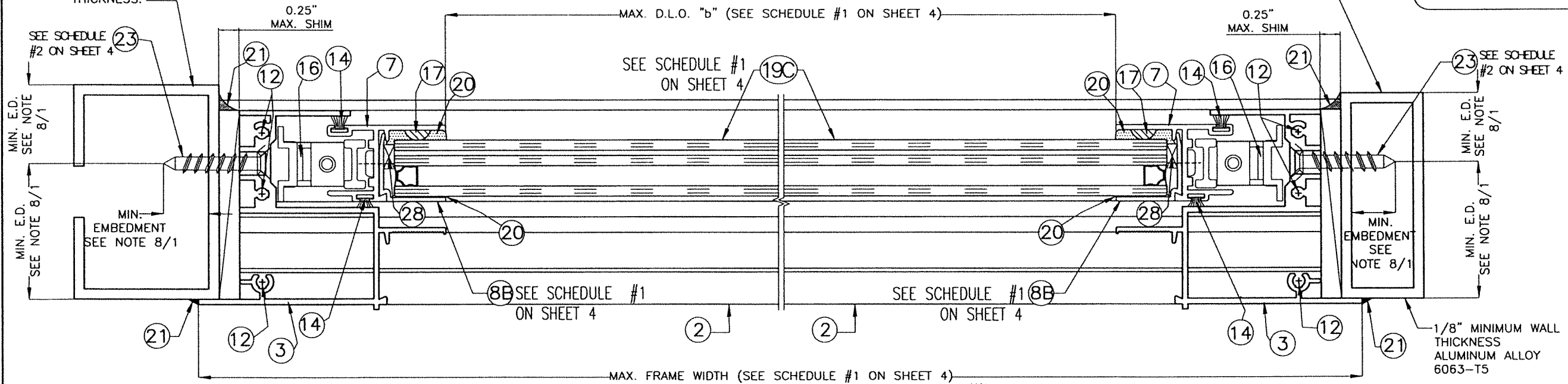


**EXTERIOR**

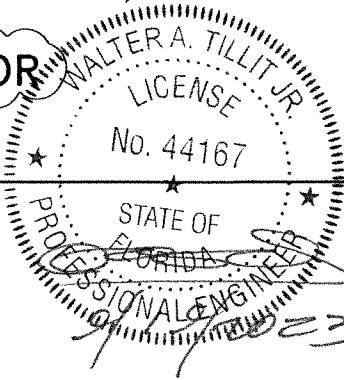
STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 12 GAGE MINIMUM WALL THICKNESS.

APPROVED MULLION (UNDER SEPARATE APPROVAL)

POURED CONCRETE OR CONCRETE BLOCK WALL REQ'D.



**EXTERIOR**



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

**SECTIONS E-E  
INSTALLATIONS INTO WOOD, POURED CONCRETE,  
CONCRETE BLOCK OR METAL.**

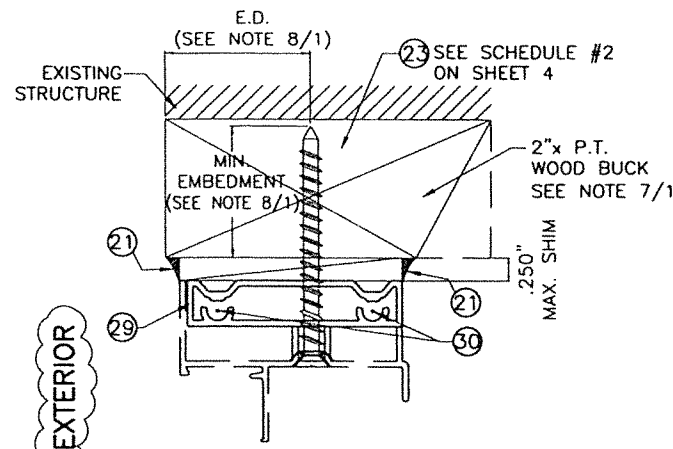
SCALE 1/2" = 1"

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 CA-0006719  
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	09/13/2023 DATE:
1	OLD 20-222	09/13/23	3	-	-	<b>23-217</b> DRAWING No.
2	-	-	4	-	-	

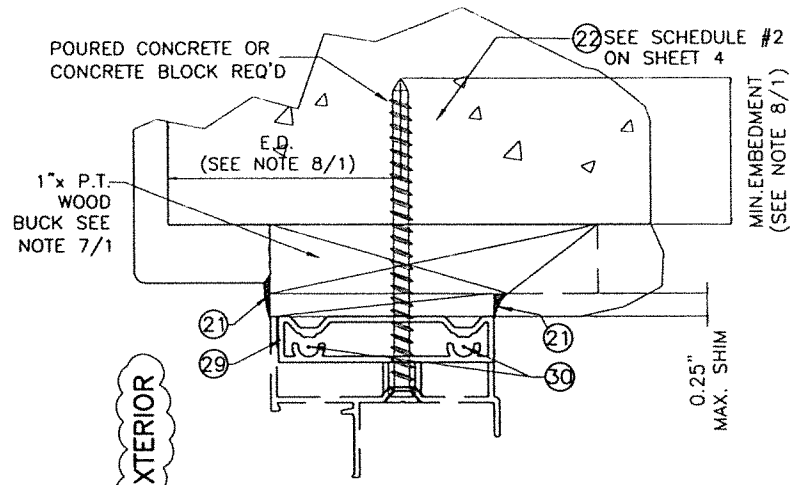
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HIALEAH, FL 33014  
PH: (954)226-5555/(305)558-8103  
FAX: (305)558-6665  
www.gigwindows.com

SHEET 7A OF 10



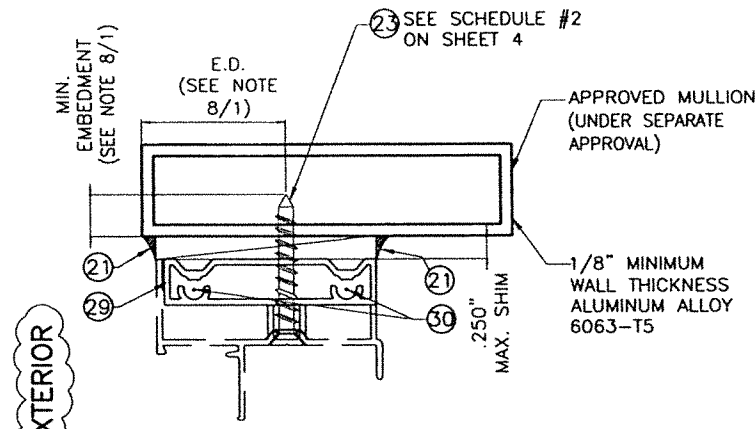
**ALTERNATIVE SECTION  
INSTALLATION  
TO WOOD**

SCALE: 1/2"=1"



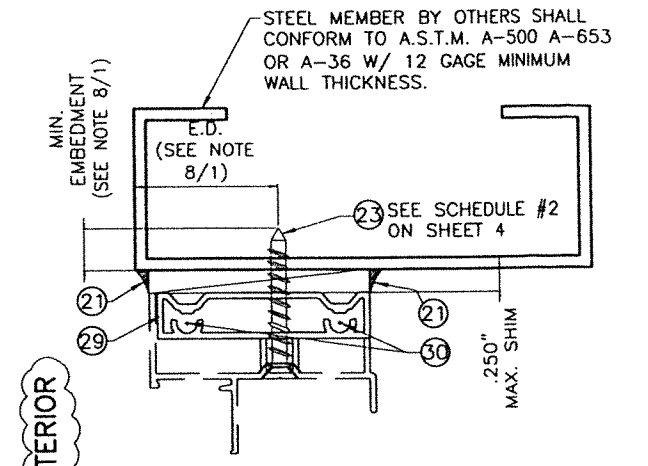
**ALTERNATIVE SECTION  
INSTALLATION  
TO CONCRETE**

SCALE: 1/2"=1"



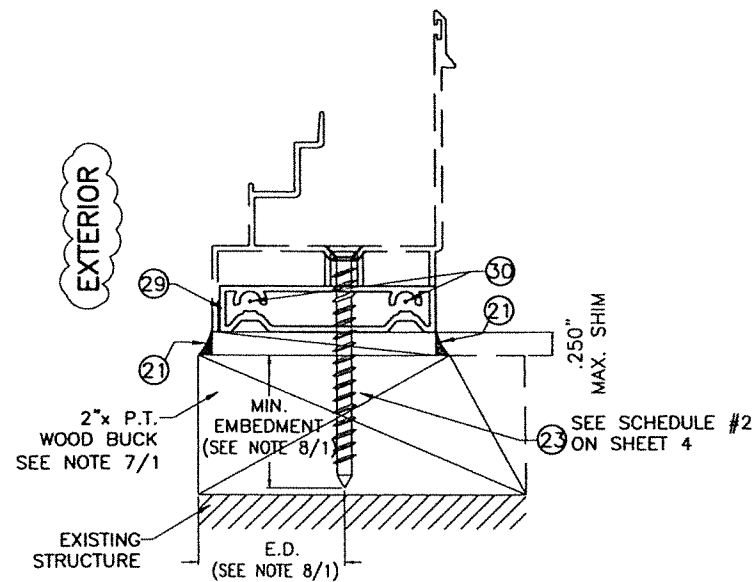
**ALTERNATIVE SECTION  
INSTALLATION  
TO ALUMINUM**

SCALE: 1/2"=1"



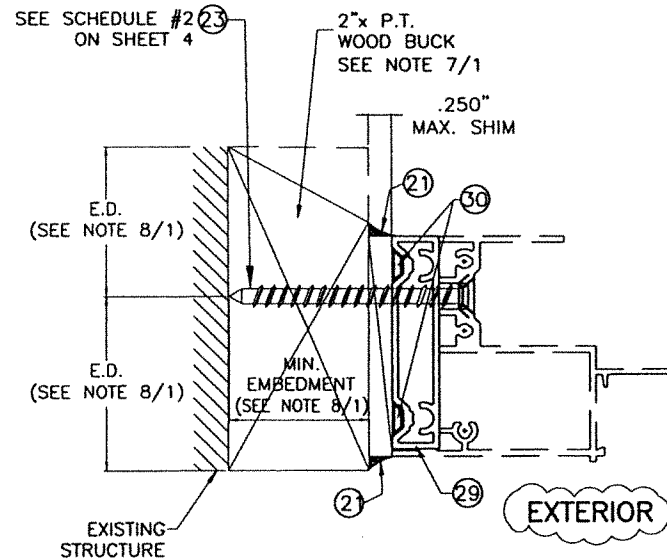
**ALTERNATIVE SECTION  
INSTALLATION  
TO STEEL MEMBER**

SCALE: 1/2"=1"



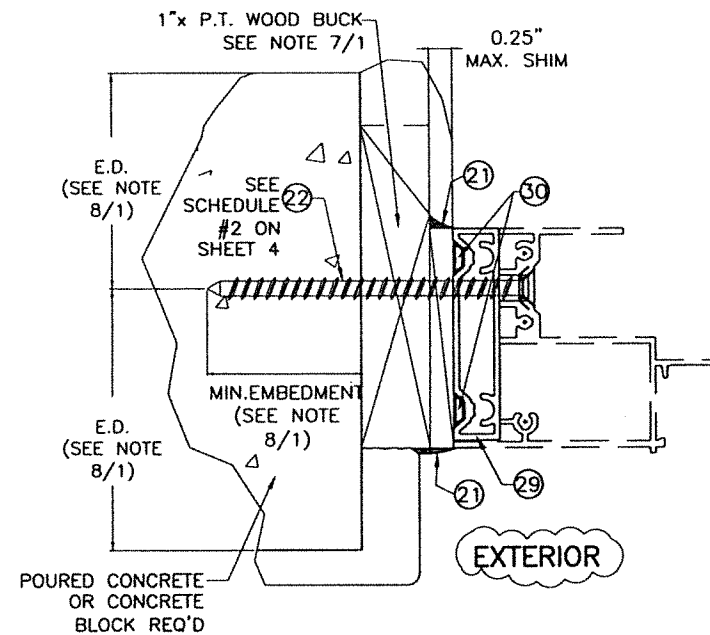
**ALTERNATIVE SECTION  
INSTALLATION  
TO WOOD**

SCALE: 1/2"=1"



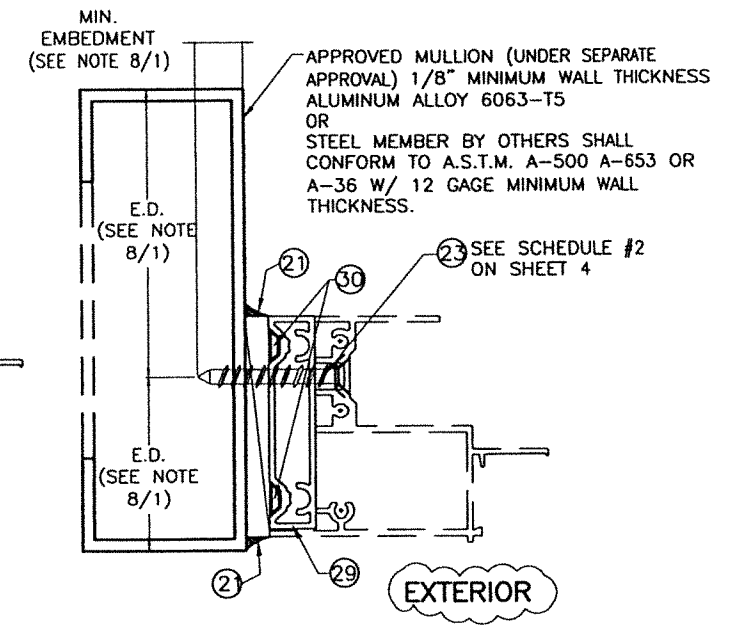
**ALTERNATIVE SECTION  
INSTALLATION  
TO WOOD**

SCALE: 1/2"=1"



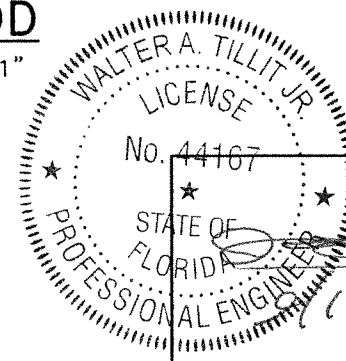
**ALTERNATIVE SECTION  
INSTALLATION  
TO CONCRETE**

SCALE: 1/2"=1"



**ALTERNATIVE SECTION  
INSTALLATION  
TO ALUMINUM  
OR STEEL MEMBER**

SCALE: 1/2"=1"



P.E. SEAL/SIGNATURE/DATE

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FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

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LARGE MISSILE IMPACT RESISTANT

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W.H  
DRAWN BY:

09/13/2023  
DATE:

**23-217**

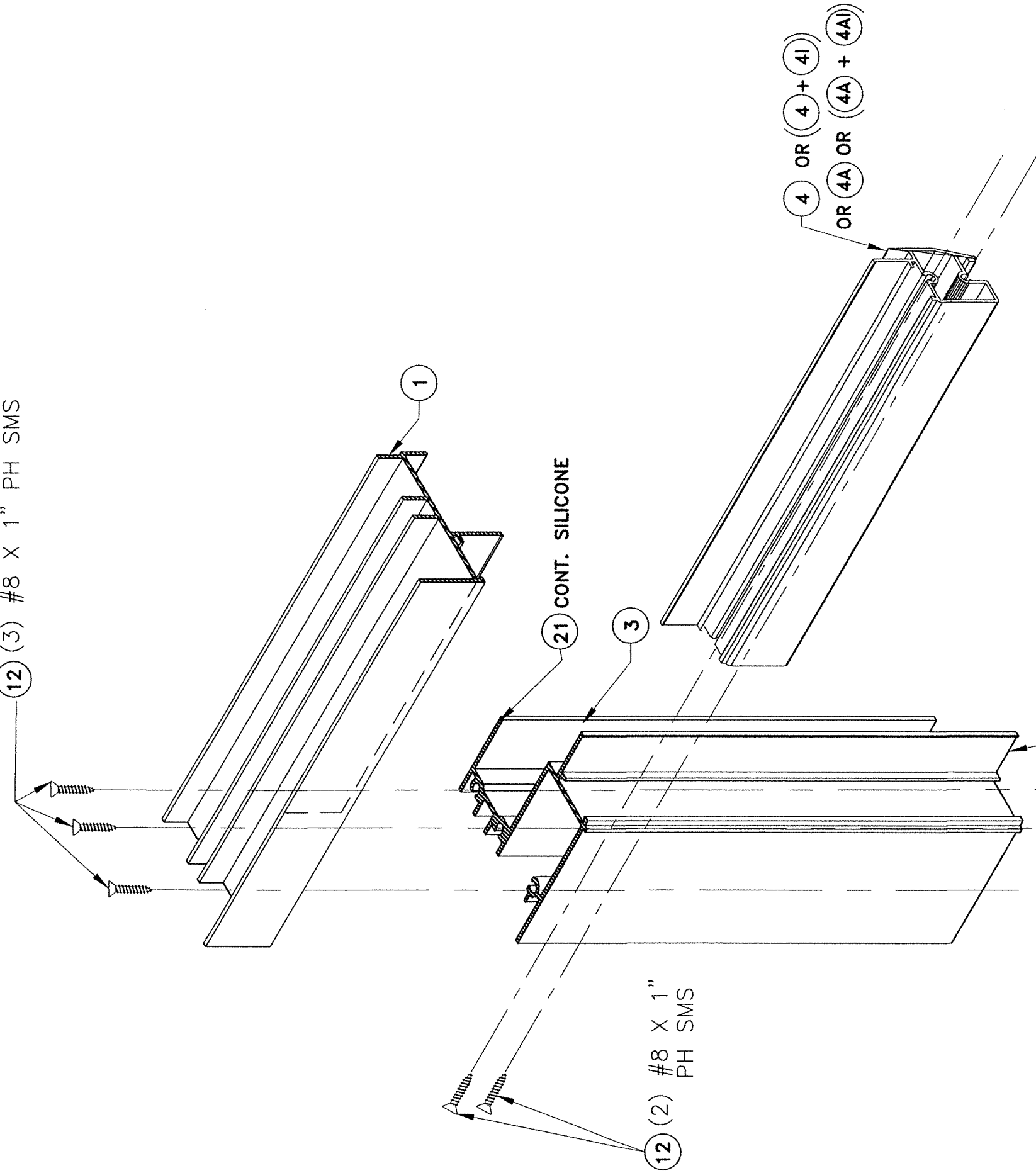
DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-222	09/13/23	3	-	-
2	-	-	4	-	-

SHEET 8 OF 10

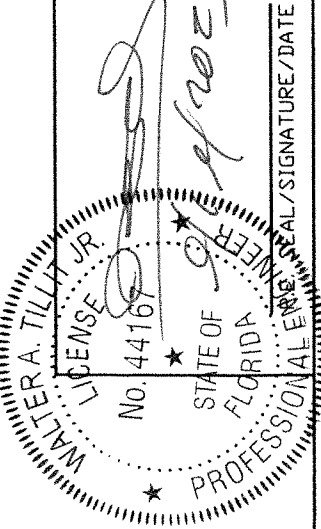
12 (3) #8 X 1" PH SMS

12 (2) #8 X 1" PH SMS



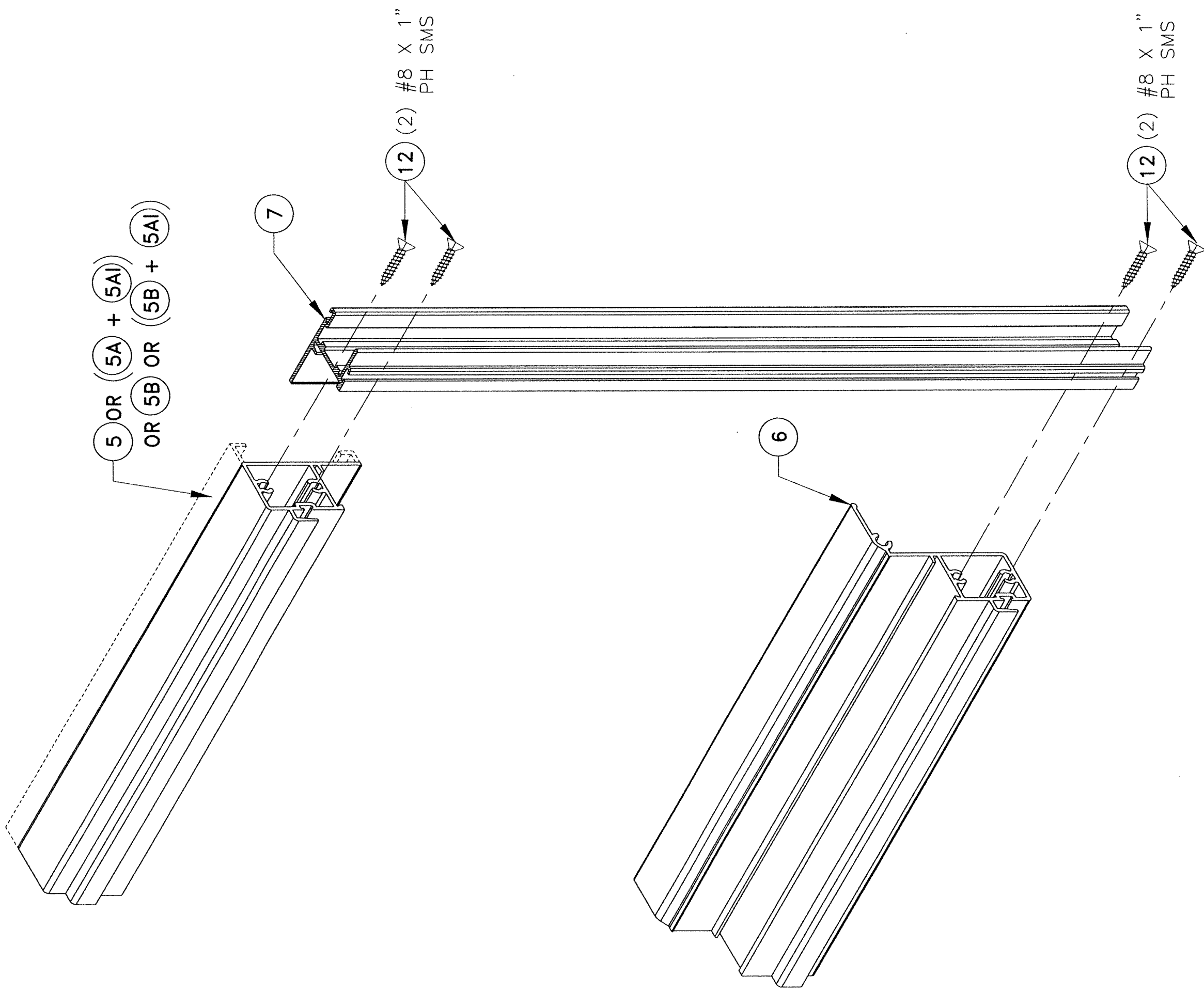
**CORNER CONNECTION AT  
FRAME HEAD AND SILL**

SCALE 1/2" = 1"

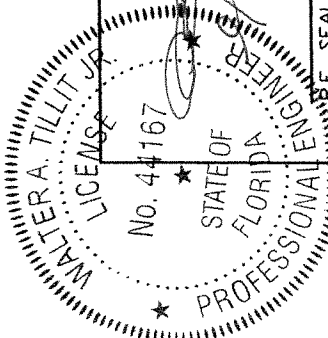


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FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE) SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT		W.H. DRAWN BY: 09/13/2023 DATE:
290 WEST 78 ROAD HALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com		DRAWING No. <b>23-217</b>
W.H. DESCRIPTION OLD 20-222	REV. No 3	DATE 09/13/23
REV. No 1	DESCRIPTION 4	DATE -
REV. No 2	DESCRIPTION -	DATE -



**CORNER CONNECTION AT  
 BOTTOM VENT**  
 SCALE 3/4" = 1"



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SERIES 20000 HIGH IMPACT SINGLE HUNG WINDOW LARGE MISSILE IMPACT RESISTANT	W.H. DRAWN BY:
	DATE: 09/13/2023
290 WEST 78 ROAD HALLANDALE, FL 33014 PH: (954)226-3555 / (305)558-8103 FAX: (305)558-6665 www.gigwindows.com	DRAWING No. <b>23-217</b>
WINDOMS & DOORS DESCRIPTION OLD 20-222	REV. No. 1
DATE 09/13/23	REV. No. 1
2	REV. No. 1
3	REV. No. 1
4	REV. No. 1
5	REV. No. 1
6	REV. No. 1
7	REV. No. 1
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100	REV. No. 1