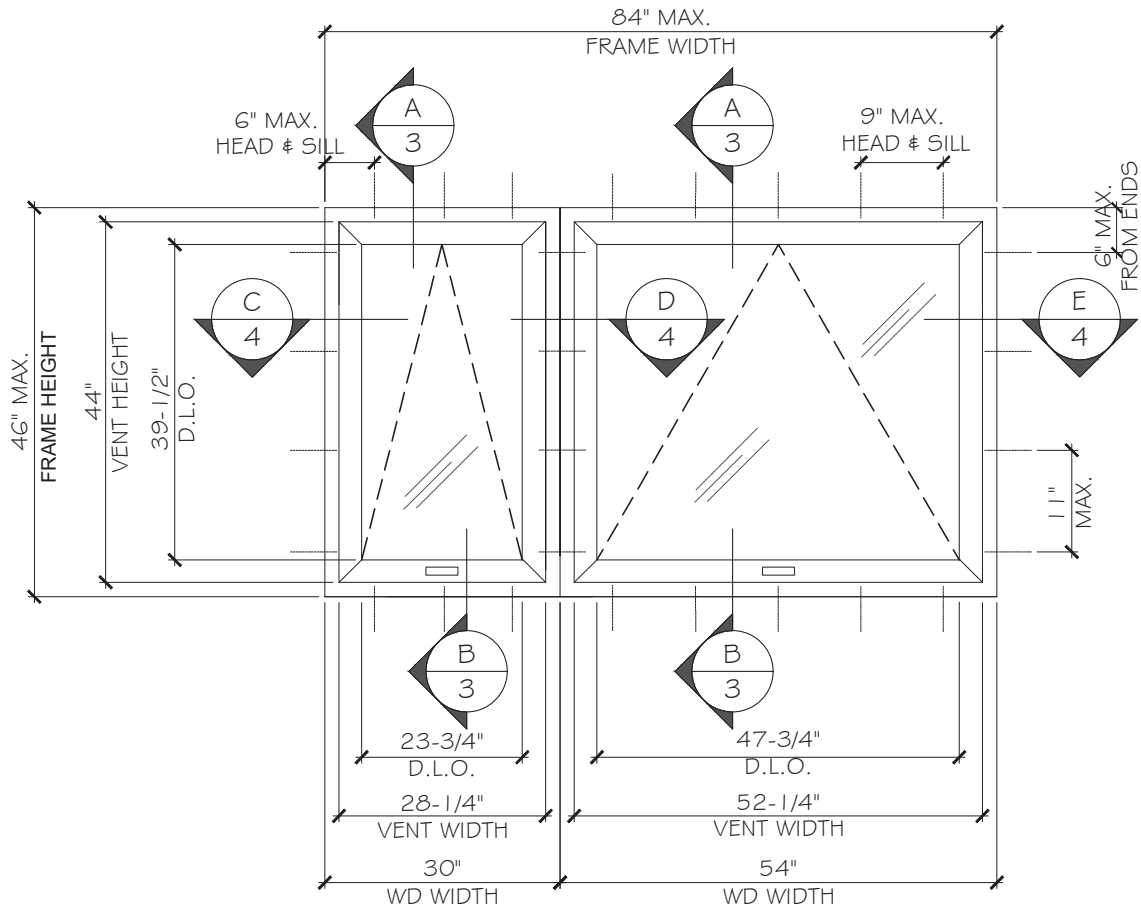
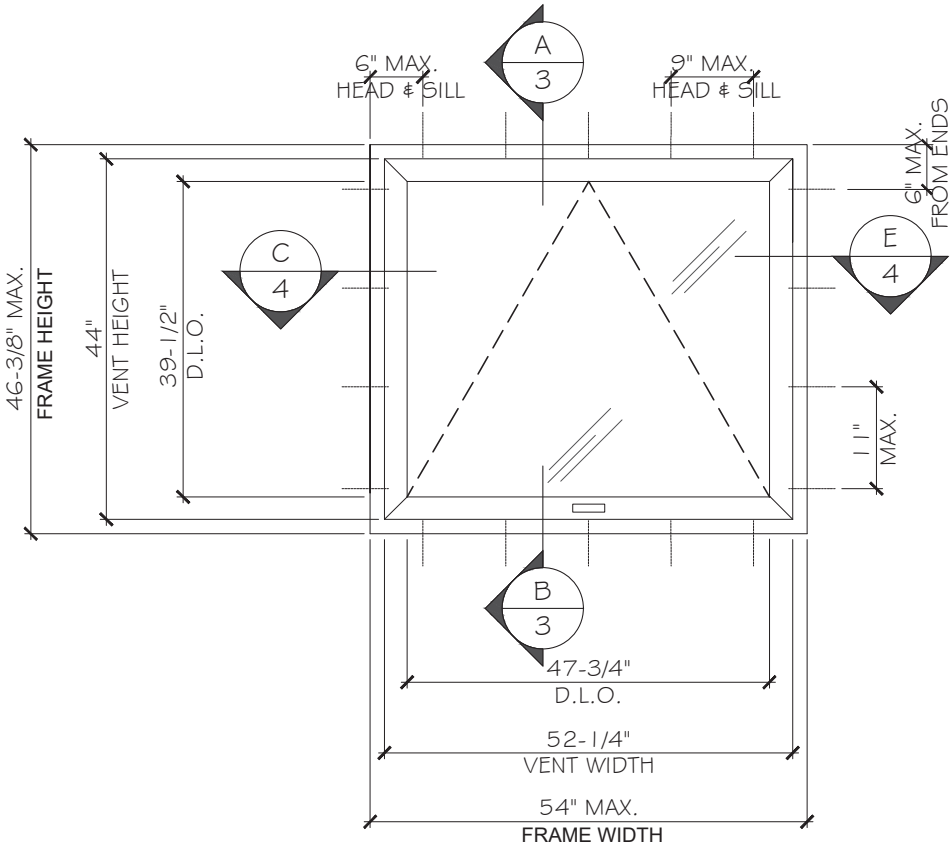


C.T. WINDOWS, LLC.
SERIES 300 PROJECTED - OUT
LARGE MISSILE IMPACT



TYPICAL ELEVATION



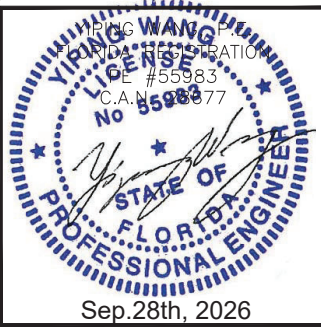
TYPICAL ELEVATION

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION FBC 2023/ 9TH EDITION FBC 2026 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS RATED FOR LARGE MISSILE IMPACT, IMPACT SHUTTERS ARE NOT REQUIRED.
- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.
- MATERIAL: ALL ALUMINUM EXTRUSION TO BE 6063 -T5 ALLOY
- 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.
- WOOD BUCKS BY OTHERS MUST BE SOUTHERN PINE, G = 0.55 MIN. AND MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE MAIN STRUCTURE.
- ULTIMATE DESIGN LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO DESIGN LOAD IN THIS DOCUMENT.

- A LOAD DURATION FACTOR IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- GLASS CAPACITIES BASED ON ASTM E1300-16 OR 24 (3 SEC. GUSTS).
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL / METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 8TH EDITION FBC 2023/ 9TH EDITION FBC 2026 SECTION AS APPLICABLE.
- METAL STRUCTURES 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).

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.



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R5	09.28.26 UPDATE TO 2026 FBC

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SUPERIOR SERIES 300 ALUM. PROJECTED-OUT WINDOW - L.M.I

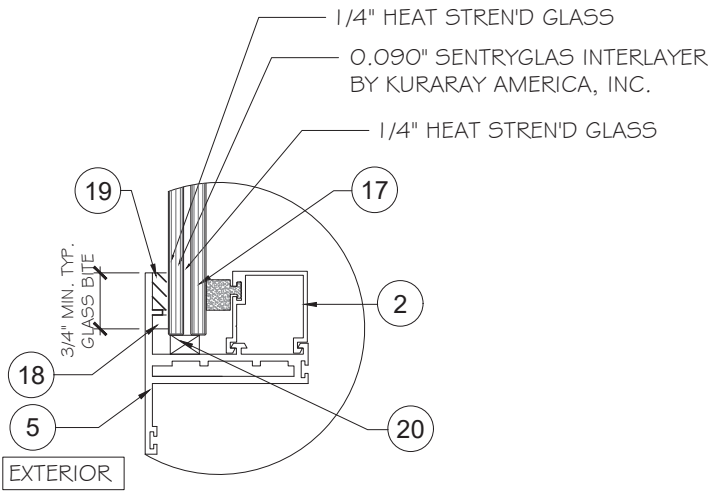
C. T. WINDOWS, LLC.
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FL18006.1	
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DRAWING NO. AD13-05	
SHEET 1 OF 5	

BILL OF MATERIALS				
MARK	PART #	QTY	DESCRIPTION	MATERIAL
①	9046	1 EA	FLANGE FRAME SILL	ALUM. ALLOY 6063-T5
②	9056	4 EA	GLAZING BEAD	ALUM. ALLOY 6063-T5
③	9012	1 EA	FLANGE FRAME HEAD	ALUM. ALLOY 6063-T5
④	9012	2 EA	FLANGE FRAME JAMBS RH/LH	ALUM. ALLOY 6063-T5
⑤	9030	4 EA	VENT SASH SILL/HEAD/JAMBS	ALUM. ALLOY 6063-T5
⑥	9008	4 EA	VENT SASH CORNER LOCK	ALUM. ALLOY 6063-T5
⑦	9009	1 EA	FRAME HEAD DRIP CAP	ALUM. ALLOY 6063-T5
⑧	9010	AS REQ'D	ZERO MULL	ALUM. ALLOY 6063-T5
⑨	LB06-2300	AS REQ'D	ROTO FRANK KEEPER	300 STAINLESS STL.
⑩	LB08-8050	1 EA	ROTO FRANK G6 LOCKBAR	300 STAINLESS STL.
⑪	320-20	2 PR	HD 4-BAR MAGNUM HINGE	300 STAINLESS STL.
⑫	N/A	3 EA	3" LONG SNUBBER -1/2" X 1" X .125 TH	ALUM. ALLOY 6063-T5
⑬	9043	AS REQ'D	FLANGED FRAME ANCHOR HOLE CLIP - 2 1/4" LONG	ALUM. ALLOY 6063-T5
⑭	A-16-97	4 EA	RISER BLOCK (DELRIN) (5/8") W/ #10 X 1" SMS	NYLON
⑮	LHO8-7510-12	2 EA	ROTO FRANK OPERATOR HANDLE (PRO HNDL 37 MM V)	-
⑯	2288	65 L/F	PROTOTYPE INC. VENT WEATHER STR. -BULB VINYL	VINYL
⑰	TR-427E	AS REQ'D	3/8" TREMCO WEDGE (GLAZING BEAD)	EDPM RUBBER - SHORE 'A' - 70 DURO
⑱	5206N	AS REQ'D	FOAM TAPE BLACK GLAZING TAPE (1/4"X1/4")	URETAHNE FOAM
⑲	DOW 995	AS REQ'D	GLAZING COMPOUND SILICONE (GRAY) (1/4" X 1/2")	SILICONE
⑳	TPR 566	AS REQ'D	CLR 3/8" X 1/4" SETTING BLOCK	EPDM RUBBER - SHORE 'A' - 80 DURO
㉑	N/A	2 EA	1 X 7/16 X 0.050" THK. ALUMINUM CHANNEL	ALUMINUM #10 X 1 PH SMS @ 13" O.C.
㉒	LB05-1004-51	AS REQ'D	ROTO FRANK GUIDE HOUSING	-
㉓	GT990	AS REQ'D	LOCK HANDLE SCREW #8-32 X 1/2" TAPTITE	18-8 STAINLESS STL.
㉔	G2-HNDLPLT-02	AS REQ'D	LOCK HANDLE FASTENER PLATE	PLASTIC
㉕	9044	1 EA.	SILL PAN	ALUM. ALLOY 6063-T5

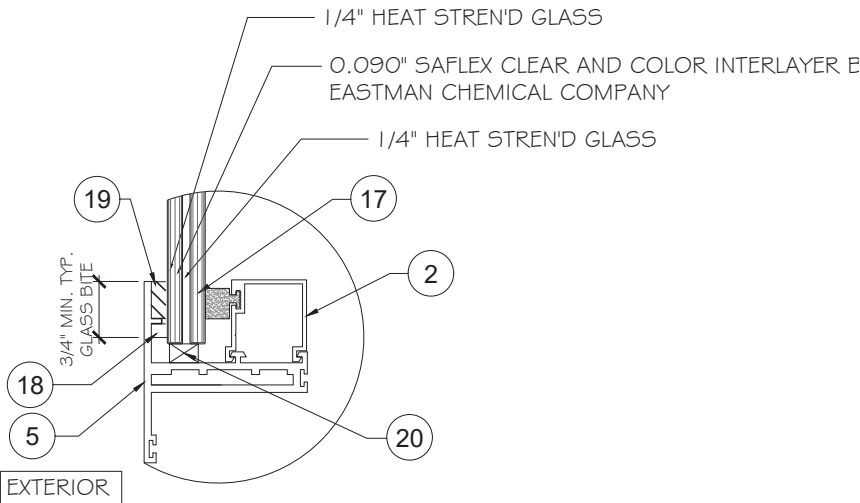
HARDWARE:

- (1) SURFACE MOUNT METALLIC CAMLOCKS WITH (2) #8-32 X 1/2" PH SMS
- (2) SURFACE MOUNT METALLIC FOUR BAR HINGES @ FRAME UPPER CORNERS WITH (6) #10 X 3/8" PH SMS & (4) #10 X 1/2" PH SMS
- (1) SURFACE MOUNT METALLIC KEEPERS WITH (4) #8 X 1/2" FH SMS AT MIDSPAN OF VENT BOTTOM RAIL
- (2) 3" LONG SURFACE MOUNT ALUMINUM SNUBBERS WITH (3) #8 X 1/2" FH SMS AT VENT TOP RAIL 12 1/2" FROM EACH END
- (1) SURFACE MOUNT ALUMINUM HANDLE WITH (2) #10-24 X 1 1/2" PH MS AT MIDSPAN OF VENT BOTTOM RAIL



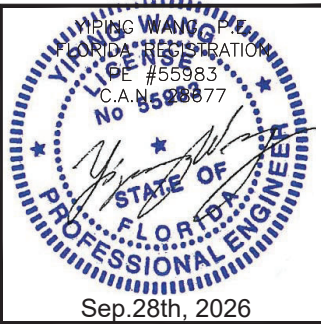
GLASS TYPE "A"

MAX. DESIGN LOAD :
+69 PSF
-91 PSF



GLASS TYPE "B"

MAX. DESIGN LOAD :
+69 PSF
-76 PSF



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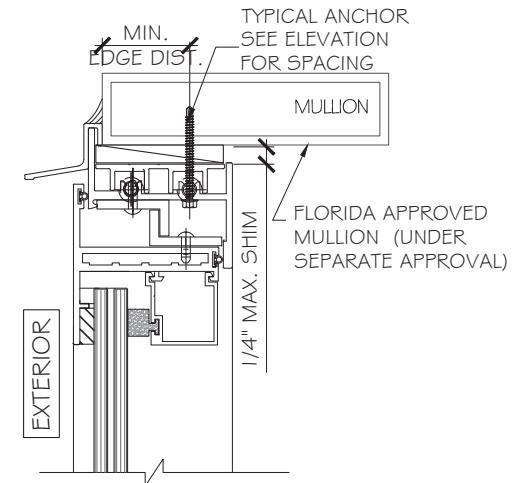
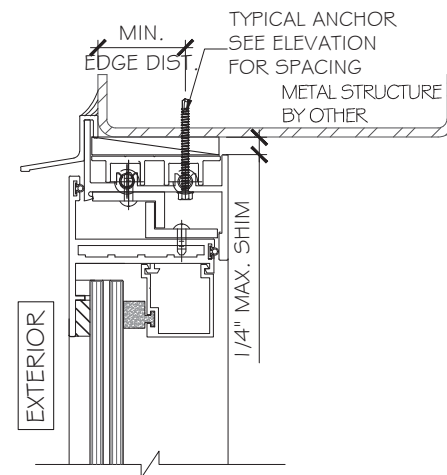
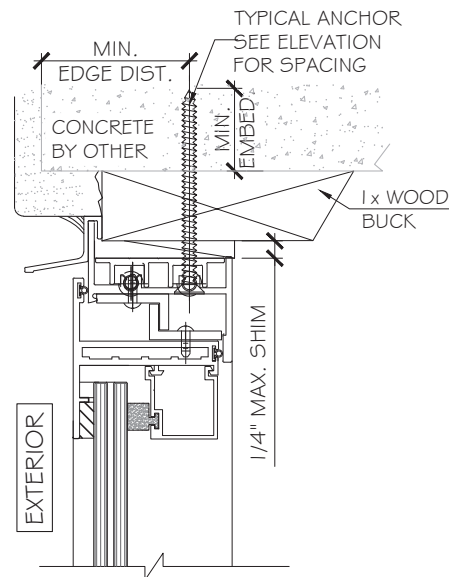
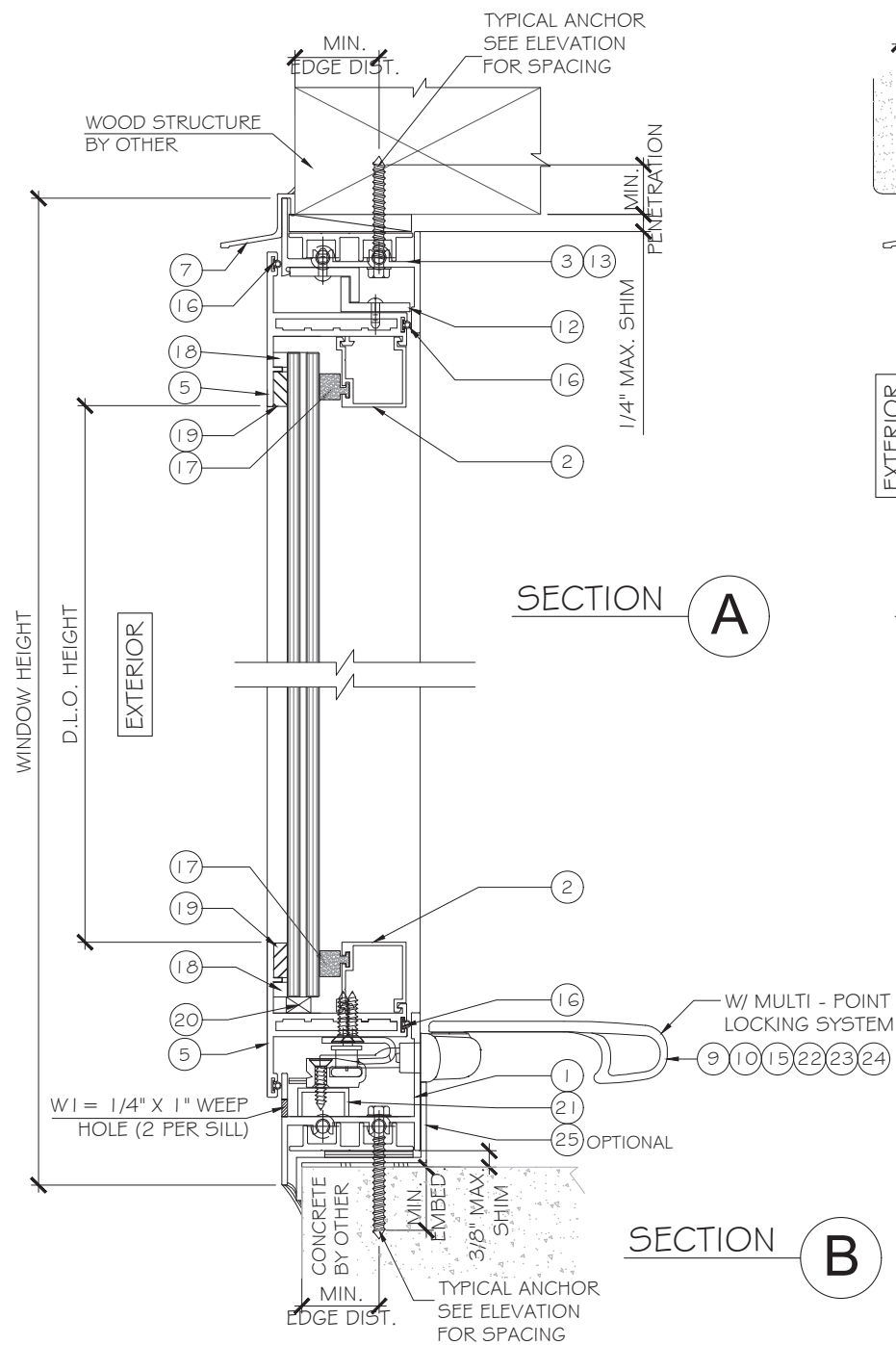
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SHEET 2 OF 5	



SECTION A

SECTION A

SECTION A

SECTION A

TYPICAL ANCHORS: (SEE ELEVATIONS FOR SPACING)

TYPE 'A' - 1/4" TAPCONS BY 'ITW' ($F_u = 120 \text{ KSI}$, $F_y = 92 \text{ KSI}$)

- INTO 2BY WOOD BUCKS OR WOOD STRUCTURE 1-1/2" MIN. PENETRATION INTO WOOD
- THRU 1BY BUCKS INTO CONC. OR MASONRY 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
- DIRECTLY INTO CONC. OR MASONRY 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

TYPE 'B' - 1/4" TEKs OR SELFDRILLING SCREWS (GRADE 5 CRS) INTO METAL STRUCTURES

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

TYPE 'C' - #14 SMS OR STAINLESS STEEL SCREWS (GRADE 2 CRS)

- INTO FLORIDA STATE APPROVED MULLIONS

MASONRY

- ASTM C90 GROUT FILLED CONCRETE BLOCK
- HOLLOW CONCRETE BLOCK

CONCRETE

- $f_c = 3,000 \text{ PSI}$

ANCHOR EDGE DISTANCES

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

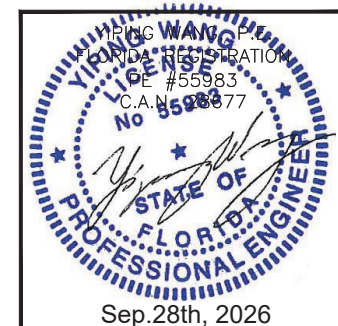
SEALANT:

ALL FRAME CORNERS, FIXED PANELS AND FRAME ALL AROUND TO BE SEALED WITH ACRYLIC SEAM SEALER

WEEPHOLE:

1" X 1/4" WEEPHOLE 5" FROM EACH END AT FRAME SILL

ALL ANCHOR OPTIONS CAN APPLY TO HEAD, SILL AND JAMB ANCHORS.



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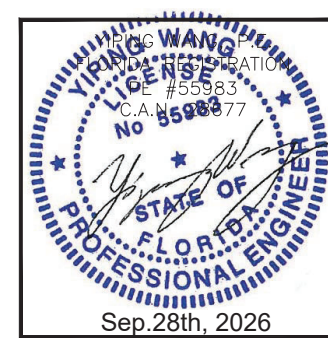
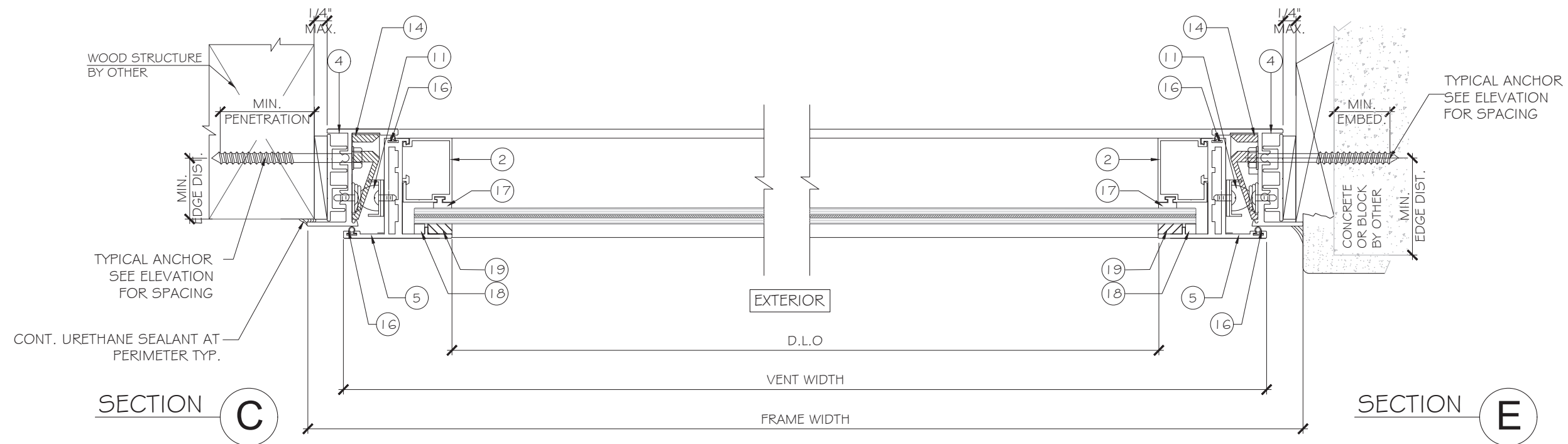
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SHEET 3 OF 5

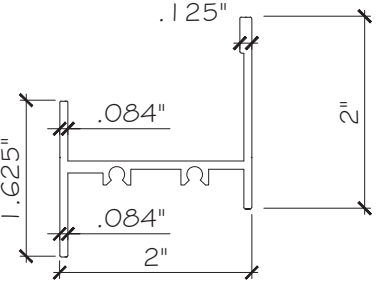
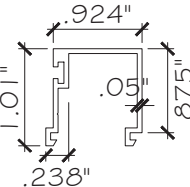
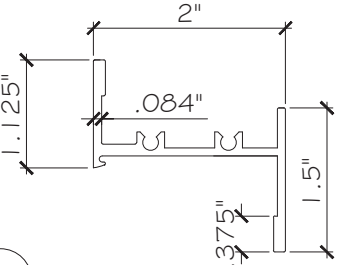
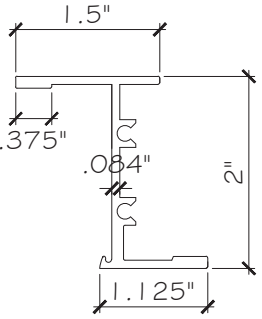
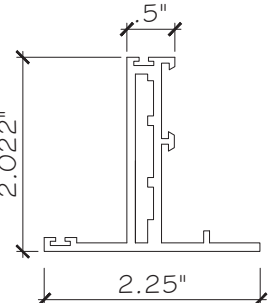
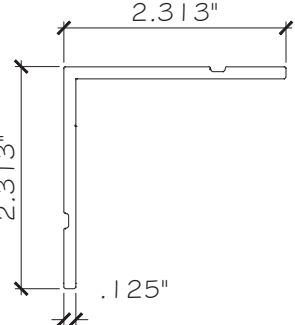
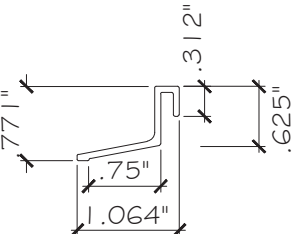
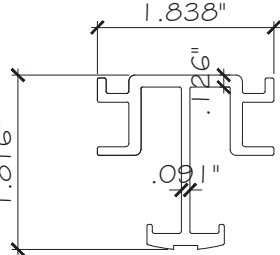
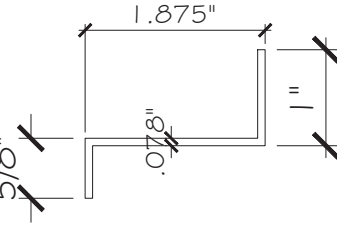
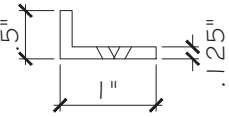
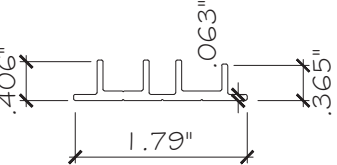


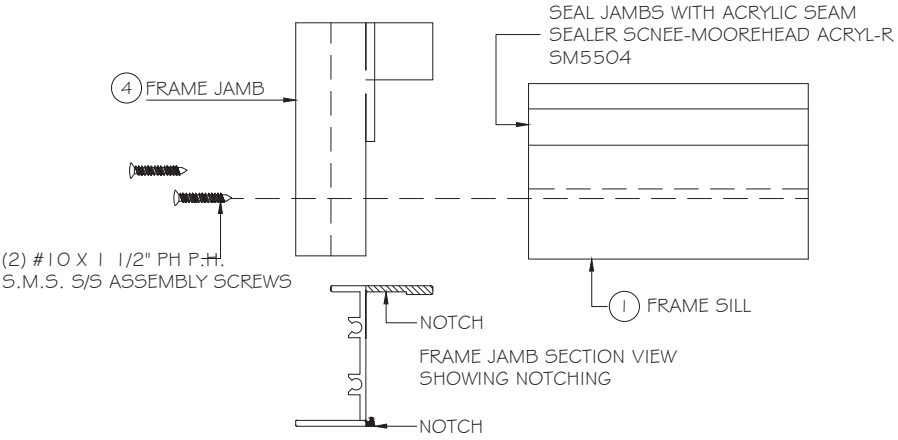
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 1 <u>FRAME SILL FLANGED</u> 9046	 2 <u>EXTRUDED GLAZING BEAD</u> 9056	 3 <u>FRAME HEAD FLANGED</u> 9012
 4 <u>FRAME JAMBS FLANGED</u> 9012	 5 <u>VENT SASH HEAD/SILL/JAMBS</u> 9030	 6 <u>CORNER LOCK .125</u> 9008
 7 <u>FRAME HEAD DRIP</u> 9009	 8 <u>ZERO MULL</u> 9010	 25 <u>SILL PAN</u> 9044
 12 <u>3" LONG SNUBBER</u>	 13 <u>ANCHOR HOLE CLIP 2 1/4" LONG</u> 9043	



4 FRAME JAMB

SEAL JAMBS WITH ACRYLIC SEAM SEALER SCNEE-MOOREHEAD ACRYL-R SM5504

1 FRAME SILL

(2) #10 X 1 1/2" PH P.H. S.M.S. 5/5 ASSEMBLY SCREWS

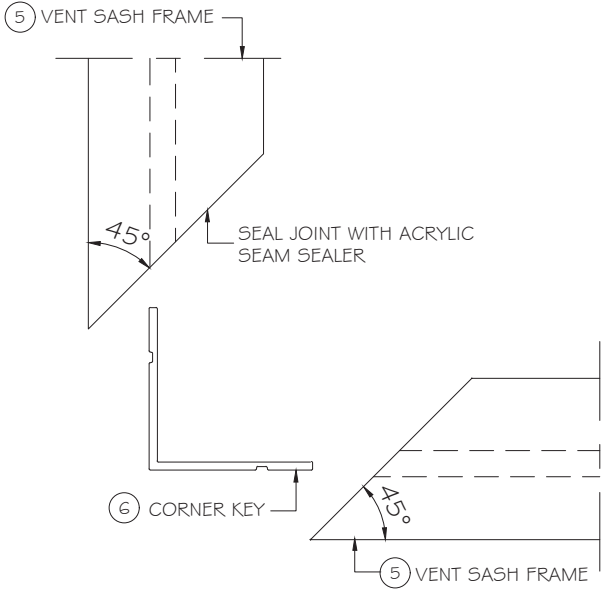
NOTCH

FRAME JAMB SECTION VIEW SHOWING NOTCHING

NOTCH

TYPICAL FRAME CORNER ASSEMBLY

ALL FRAME MEMBERS SHALL HAVE COPED JOINTS AND SHALL BE FASTENED TOGETHER WITH STAINLESS STEEL FASTENERS.



5 VENT SASH FRAME

45°

SEAL JOINT WITH ACRYLIC SEAM SEALER

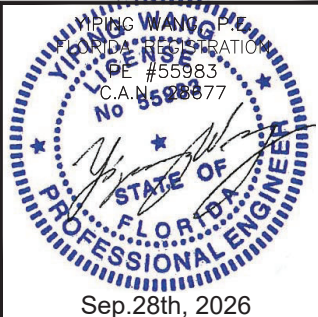
6 CORNER KEY

45°

5 VENT SASH FRAME

TYPICAL VENT CORNER ASSEMBLY

ALL VENTILATORS SHALL HAVE MITERED JOINTS, REINFORCED BY A SOLID CORNER KEY AND MECHANICALLY CRIMPED TO



YIPENG WANG
REGISTERED PROFESSIONAL ENGINEER
No. 55983
C.A.# 5598377
STATE OF FLORIDA
Sep. 28th, 2026

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