



SH900V SINGLE HUNG,
TILT WINDOW,
IMPACT RESISTANT, HVHZ,
FLANGE, EQUAL-LEG & FIN FRAMES

FLORIDA PRODUCT APPROVAL #38618

DP RATING	LARGE & SMALL MISSILE IMPACT RESISTANT
SEE TABLE 1	

- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) MASONRY ANCHORS MAY BE USED INTO WOOD. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER.
- 4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH.
- 5) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.
- 6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

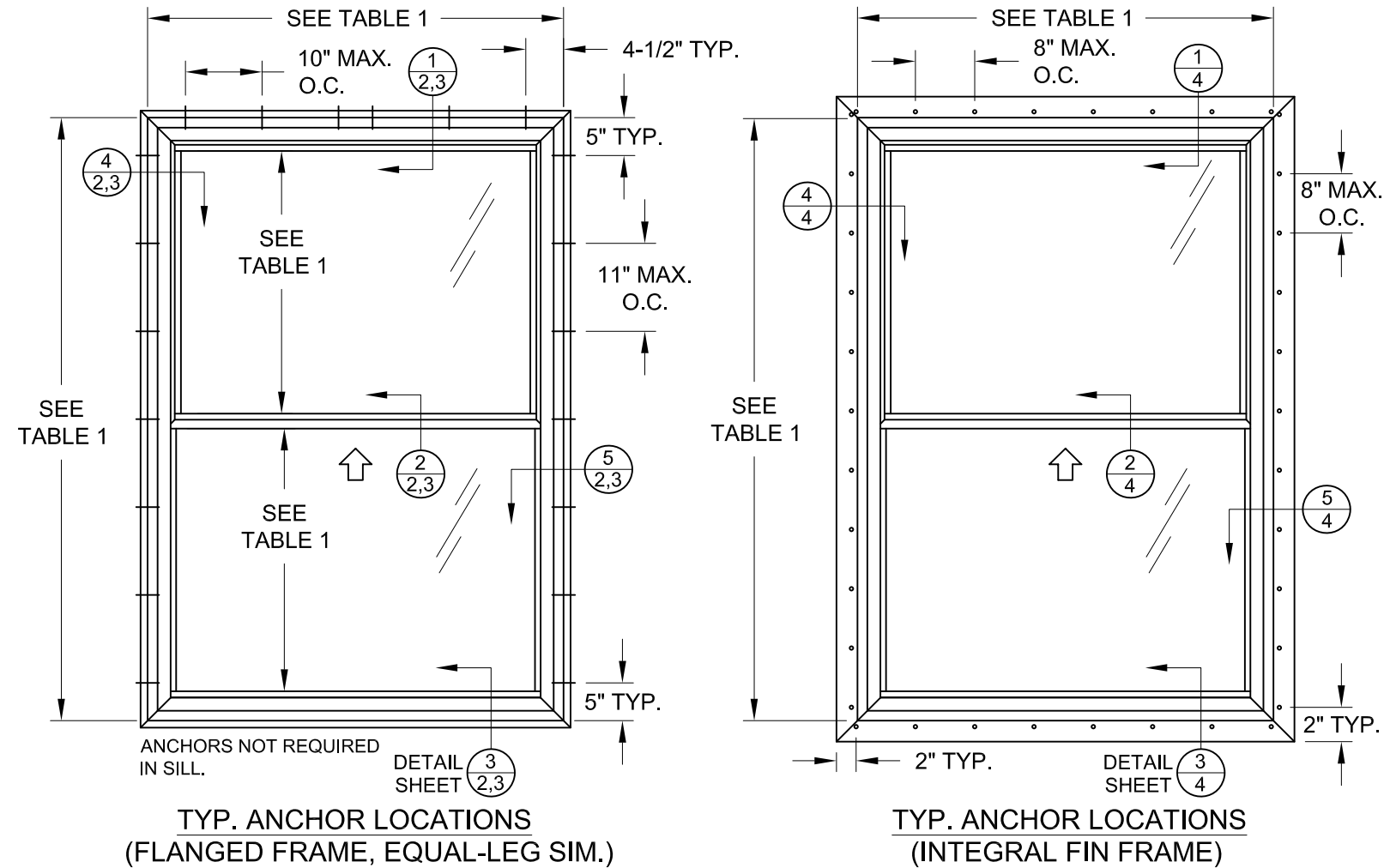
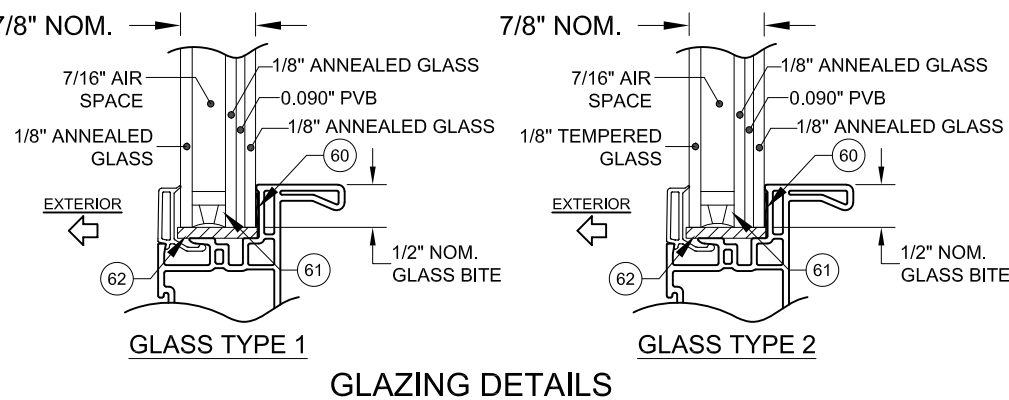


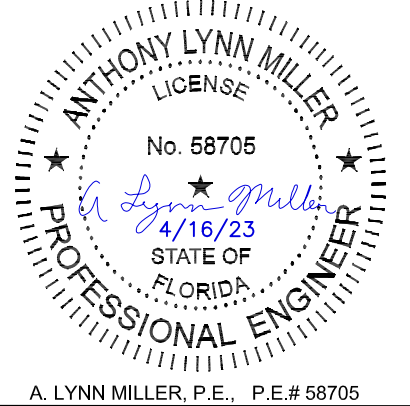
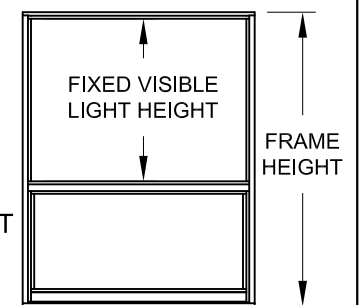
TABLE 1: DESIGN PRESSURES

Buck Width	Buck Height	Max. Sash DLO Size (Width x Height)	Max. Fixed DLO Size (Width x Height)	Frame Type	Design Pressure	
					(+) psf	(-) psf
54"	76"	47.25" x 34.38"	49.75" x 34.5"	All	55.0	65.0
37"	62"	30.25" x 27.38"	32.75" x 27.5"	Flange, Equal-Leg	65.0	85.0

FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.
GLASS TYPE 2 MUST BE USED ABOVE 30 FEET IN THE HVHZ

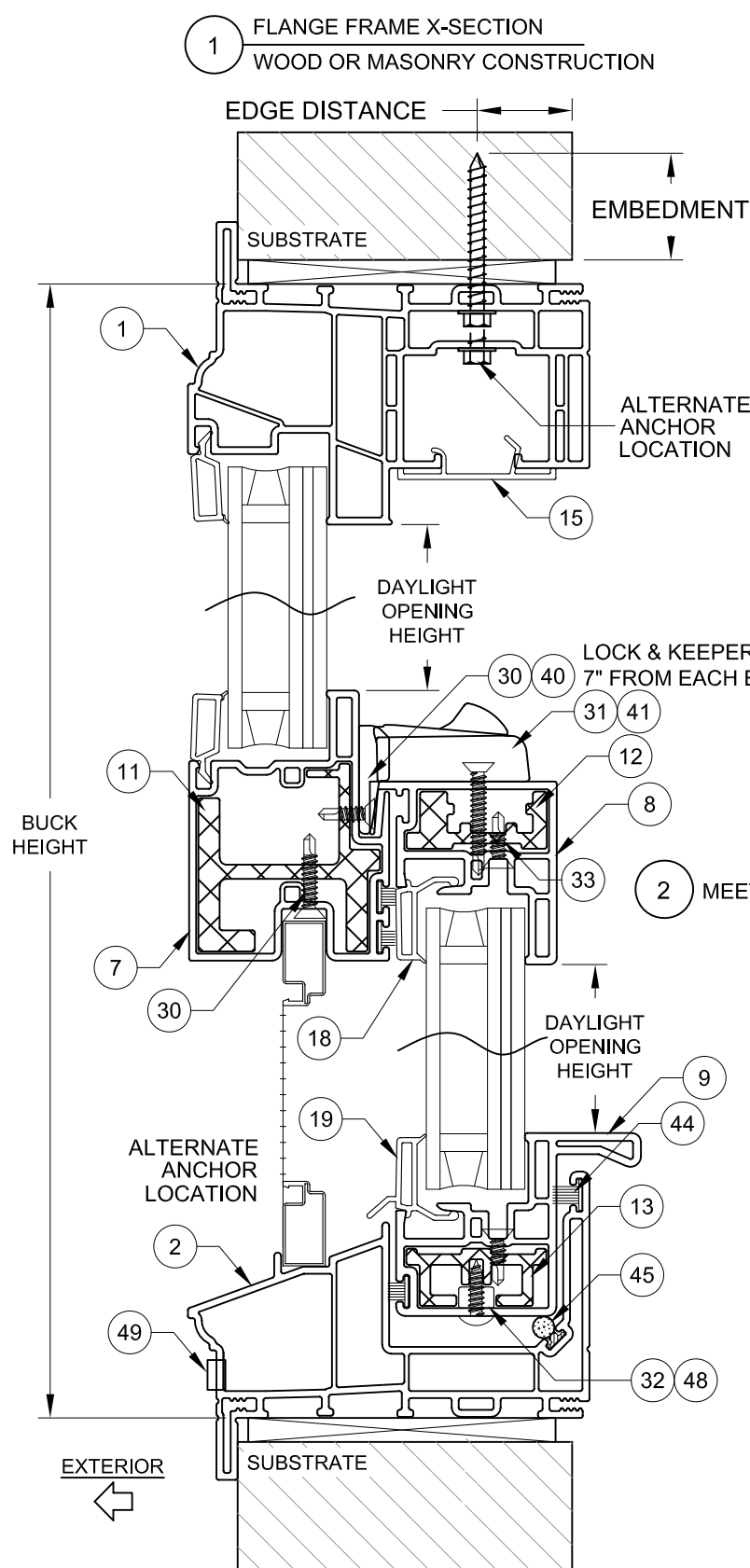


ORIEL CONFIGURATIONS ALLOWED PROVIDED THAT THE MAX FIXED DLO HEIGHT AND THE FRAME HEIGHT ARE NOT EXCEEDED.

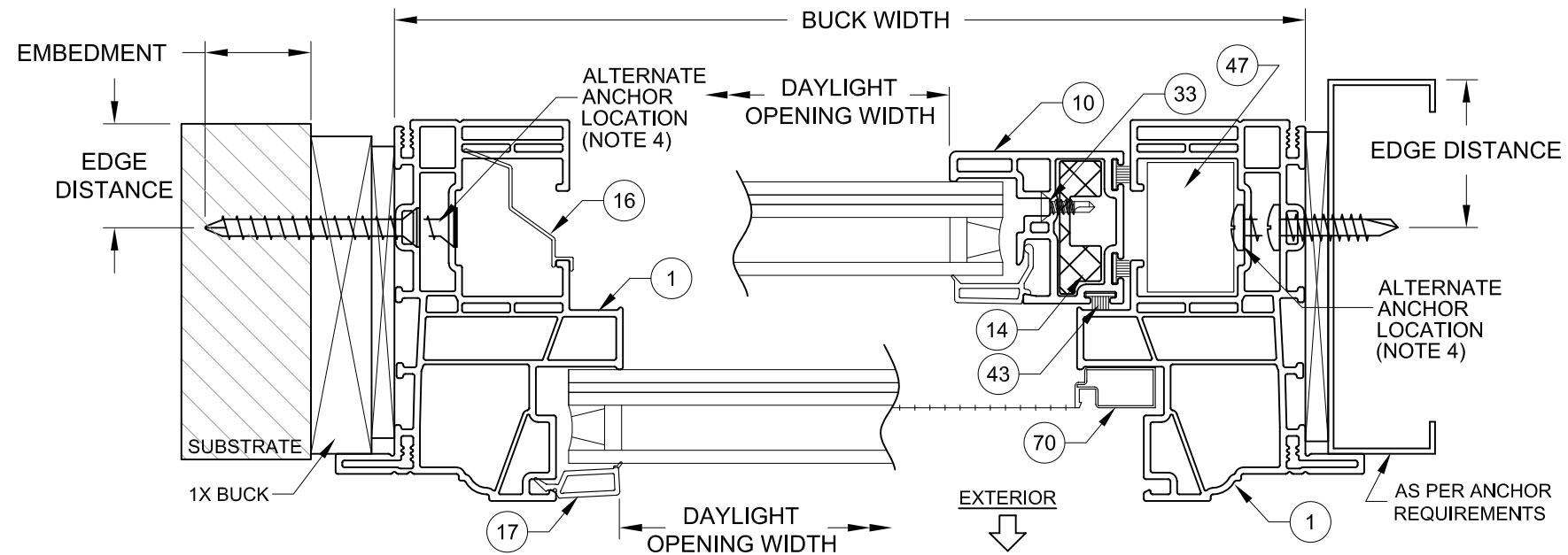


A. LYNN MILLER, P.E., P.E.# 58705

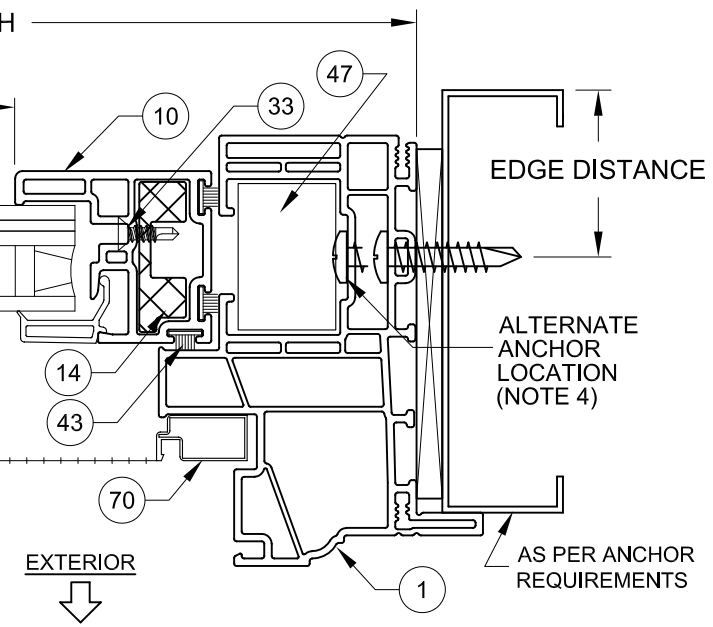
REGISTRATION #29296	COPYRIGHT © 2023 CGI WINDOWS AND DOORS LIMITED LICENSE TO MAKE COPIES FOR PERMITTING	SH900V SINGLE HUNG, LMI - HVHZ	GEN. NOTES, DESIGN PRESSURES AND ANCHOR ELEVATIONS	CGI WINDOWS & DOORS 3780 W. 104TH STREET HIALEAH, FL 33018
PREPARED BY: A. LYNN MILLER, P.E. 1070 TECHNOLOGY DR N. VENICE, FL 34275 (941) 480-1600	REVISION:	DATE:	#:	DATE: 04/14/2023
				SCALE: NTS
				BY: LOGAN YODER
				DRAWING #: SH900V-FPA-LM HVHZ
				SHEET: 1 OF 5



3 FLANGE FRAME X-SECTION
WOOD OR MASONRY CONSTRUCTION



4 FLANGE FRAME X-SECTION
USING 1X BUCK



5 FLANGE FRAME X-SECTION
STEEL STUD CONSTRUCTION

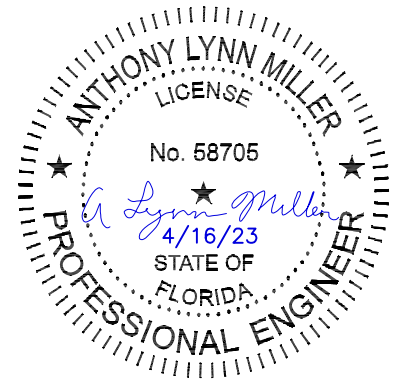
TABLE 2: INSTALLATION ANCHORS

Anchor	Substrate	Minimum Edge Distance	Minimum Embedment
#10 or #12 Steel or 410 SS Screw	Southern Pine (SG = .55)	1/2"	1-3/8"
	Aluminum, 6063-T5 min.	5/16"	0.050"
	Steel Stud, Gr. 33 min.	5/16"	0.045" (20 Ga)
	A36 Steel	5/16"	0.050"
3/16" Steel Ultracon+	Concrete (min. 2.9 ksi)	1"	1-3/4"
	UngROUTED CMU, (ASTM C-90)	1-1/16"	1-1/4"
	Southern Pine (SG = .55)	1"	1-3/8"
1/4" Steel Ultracon+	Concrete (min. 3.0 ksi)	1"	1-3/8"
	UngROUTED CMU, (ASTM C-90)	1"	1-1/4"
	Southern Pine (SG = .55)	1"	1-3/8"

- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
- 2) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 3) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

INSTALLATION NOTES:

- 1) SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.
- 2) ANY INSTALLATION OPTION SHOWN (2X BUCK OR WOOD FRAMING, 1X BUCK, DIRECT TO MASONRY, STEEL STUD) MAY BE USED ON ANY SIDE OF THE WINDOW.
- 3) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN ANCHOR TABLE 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. MAX. SHIM THICKNESS TO BE 1/4".
- 4) MAXIMUM DESIGN PRESSURE LIMITED TO +/- 55 PSF FOR ALTERNATE ANCHOR LOCATION.



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SH900V SINGLE HUNG, LMI - HVHZ

FLANGE INSTALLATION SECTION VIEWS

CGI WINDOWS & DOORS
3780 W. 104TH STREET
HIALEAH, FL 33018

BY:

REVISION:

DATE:

#:

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SCALE: NTS

BY: LOGAN YODER

DRAWING #:

SH900V-FPA-LM HVHZ

SHEET: 2 OF 5

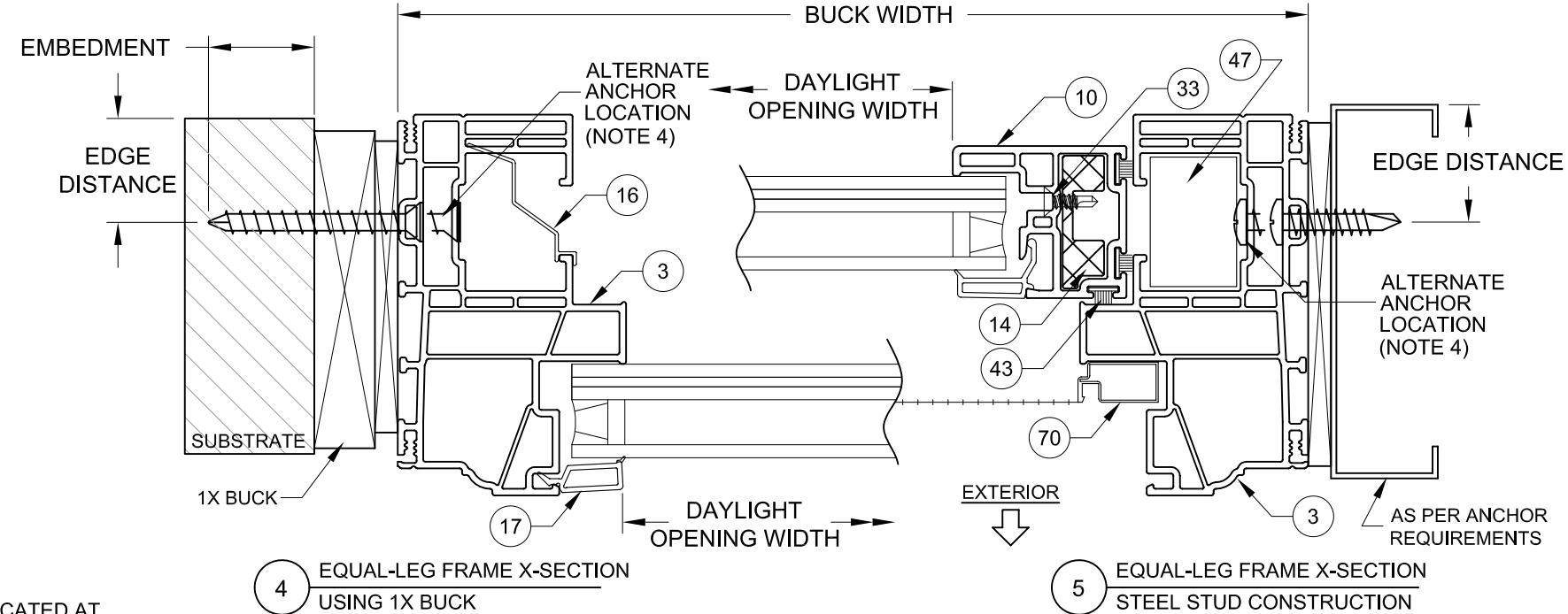
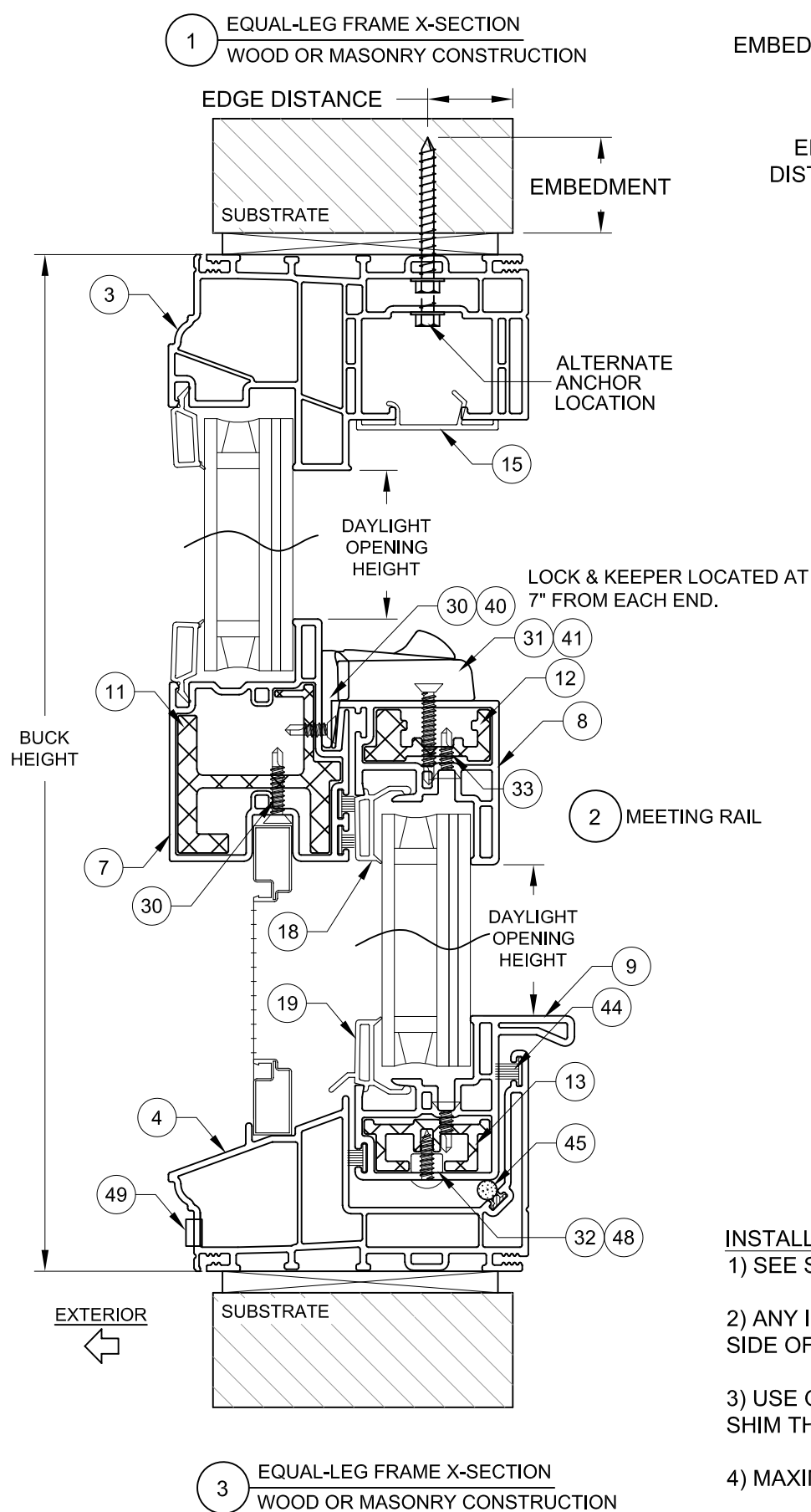


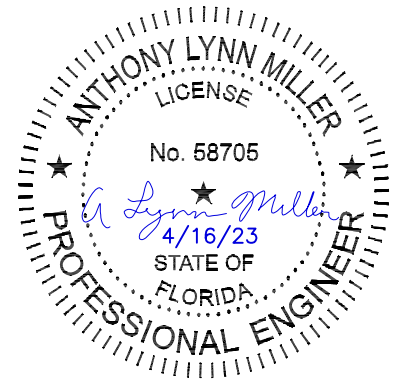
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SH900V SINGLE HUNG, LMI - HVHZ

EQUAL-LEG INSTALLATION
SECTION VIEWS

CGI WINDOWS & DOORS
3780 W. 104TH STREET
HIALEAH, FL 33018

BY:

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SCALE: NTS

BY: LOGAN YODER

DRAWING # :
SH900V-FPA-LM HVHZ

SHEET: 3 OF 5

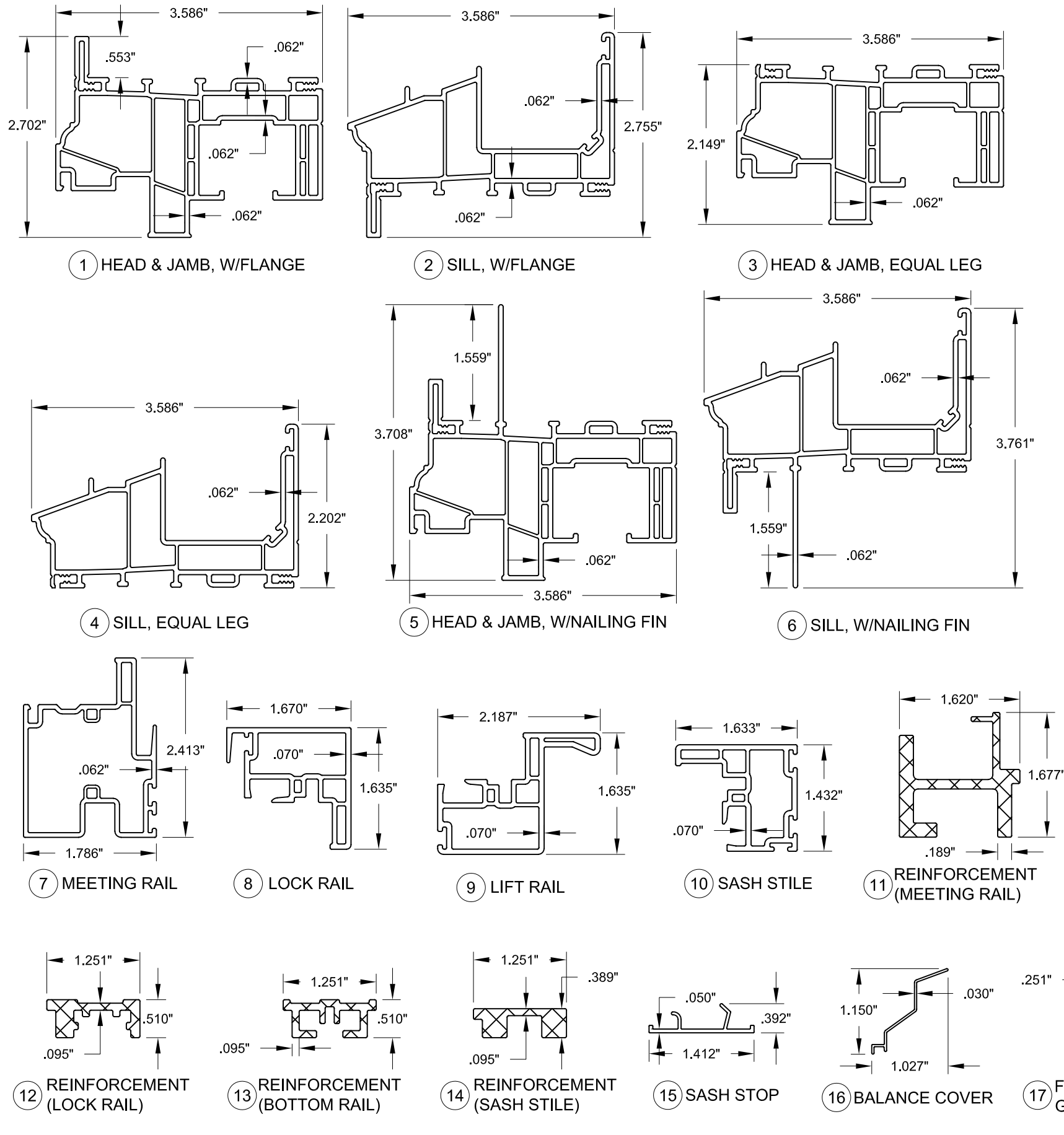
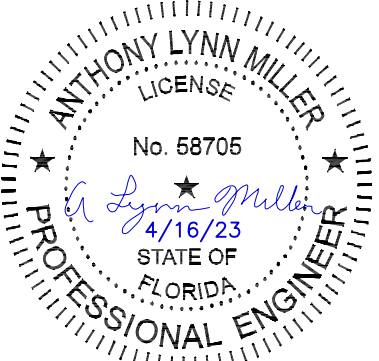


TABLE 5:

#	Part #	Description	Material
1	9465	Head & Jamb, w/Flange	PVC
2	9469	Sill, w/Flange	PVC
3	9465	Head & Jamb, Equal Leg	PVC
4	9469	Sill, Equal Leg	PVC
5	9455	Head & Jamb, w/Nailing Fin	PVC
6	9459	Sill, w/Nailing Fin	PVC
7	9477	Meeting Rail	PVC
8	9485	Lock Rail	PVC
9	9476	Sash Lift Rail	PVC
10	9438	Sash Stiles	PVC
11	6166	Reinf. - Meeting Rail	6063-T5
12	6165	Reinf. - Lock Rail	6063-T5
13	6163	Reinf. - Lift Rail	6063-T5
14	6164	Reinf. - Stiles	6063-T5
15	9473	Sash Stop	PVC
16	9468	Balancer Cover	PVC
17	9736	Fixed Lite Glazing Bead	PVC
18	9425	Sash Glazing Bead	PVC
19	9467	Sash Glazing Bead w/Drip Edge	PVC
30	1012	Screw, #6 x 3/4" PFH	Steel
31	1007	Screw, #6 x 1-1/8" PFH	Steel
32	1015	Screw, #8 x 1/2" PTRUSS	Steel
33	1003	Screw, #6 x 1/2" PFH	Steel
40	8096	Keeper	Zinc
41		Lock	
42	8121	MR Backing Plate	SS
43	4006	WSTP, .270" x .220" Polyfin	
44	4008	WSTP, .270" x .320" Polyfin	
45	4012	WSTP, Bulb Vinyl, .187" x .300"	Steel
46	8205/8206	Tilt Latch, L&R	Zinc
47		Balance	
48	8148	Pivot Bar	SS
49	8223	Weep Cover	Nylon
60	RGS 7700, Pecora 895, SikaFlex 552, Dow 791, 983 or 995		
61		Insulated Glass Spacer	
62	7061	Setting Block, 1/8" x 7/8" x 2"	EPDM
70	6244	Screen Frame	Aluminum

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SH900V SINGLE HUNG, LMI - HVHZ

EXTRUSIONS & BOM

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SHEET: 5 OF 5