Engineering Evaluation Report 9020LM01222025

Prepared by:
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Manufacturer:
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104 Triple Diamond Blvd.
North Venice, FL 34275
(833) 554-5432

Product Description:
9020A Series Aluminum LMI HVHZ Fixed Window – FL15709

Compliance:
The above-mentioned product has been evaluated for compliance with the requirements of the Florida Department of Business and Professional Regulation for Statewide Acceptance per Rule 61 G20-3.005 method 1(d). The product listed herein complies with requirements of the current Florida Building Code.

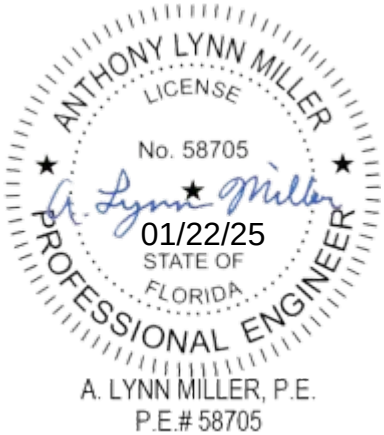
Supporting Technical Documentation:
1. Approval Document: drawing number 9020FPA-LM-1, signed and sealed by A. Lynn Miller, P.E.
2. Test Report No.:
    a) NCTL 210-3774-1, 210-3774-2, 210-3774-3 & 210-4068-01 signed and sealed by Gerard J. Ferrara, P.E. National Certified Testing Laboratories, Orlando, FL.
    TAS 201-94, TAS 202-94, TAS 203-94

    b) NCTL 210-3774-1A, 210-3774-2A & 210-3774-3A signed and sealed by Gerard J. Ferrara, P.E. National Certified Testing Laboratories, Orlando, FL.
    AAMA/WDMA/CSA 101/I.S.2/A440-08, ASTM E1886-05, ASTM E1996-06

    c) QAI NOK-0099 and QAI NOK-0102, signed and sealed by Idalmis Ortega, P.E., Fenestration Testing Laboratories, Nokomis, FL
    TAS 201-94, TAS 202-94, TAS 203-94

3. Anchor Calculations and Comparative Analysis, report number 512291-1A and -2A, prepared, signed and sealed by Luis Roberto Lomas, P.E.
4. Anchor Calculations and Comparative Analysis, report number WinDoor PW9020 LMI Anchor Calculations and Comparative Analysis, prepared, signed and sealed by A. Lynn Miller, P.E.
5. Anchor Calculations prepared, signed and sealed by A. Lynn Miller, P.E. 5/27/22 & 6/26/23.
6. Design Pressure Calculations prepared signed and sealed by A. Lynn Miller, P.E. 01/07/2025

Limitations and Conditions of use:
- Units must be glazed per ASTM E1300-04/09, refer to approval document for glazing details.
- This product is rated to be used in the HVHZ.
- This product is impact resistant and does not require impact protection in wind borne debris regions.
- Frame material to be extruded aluminum 6063-T6.
- Units must be installed in accordance with Approval Document.



SERIES PW9020A IMPACT RESISTANT FIXED WINDOW

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT 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 AS PER TABLE 1. 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. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH. ANCHORS AND FRAME CORNERS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.

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.

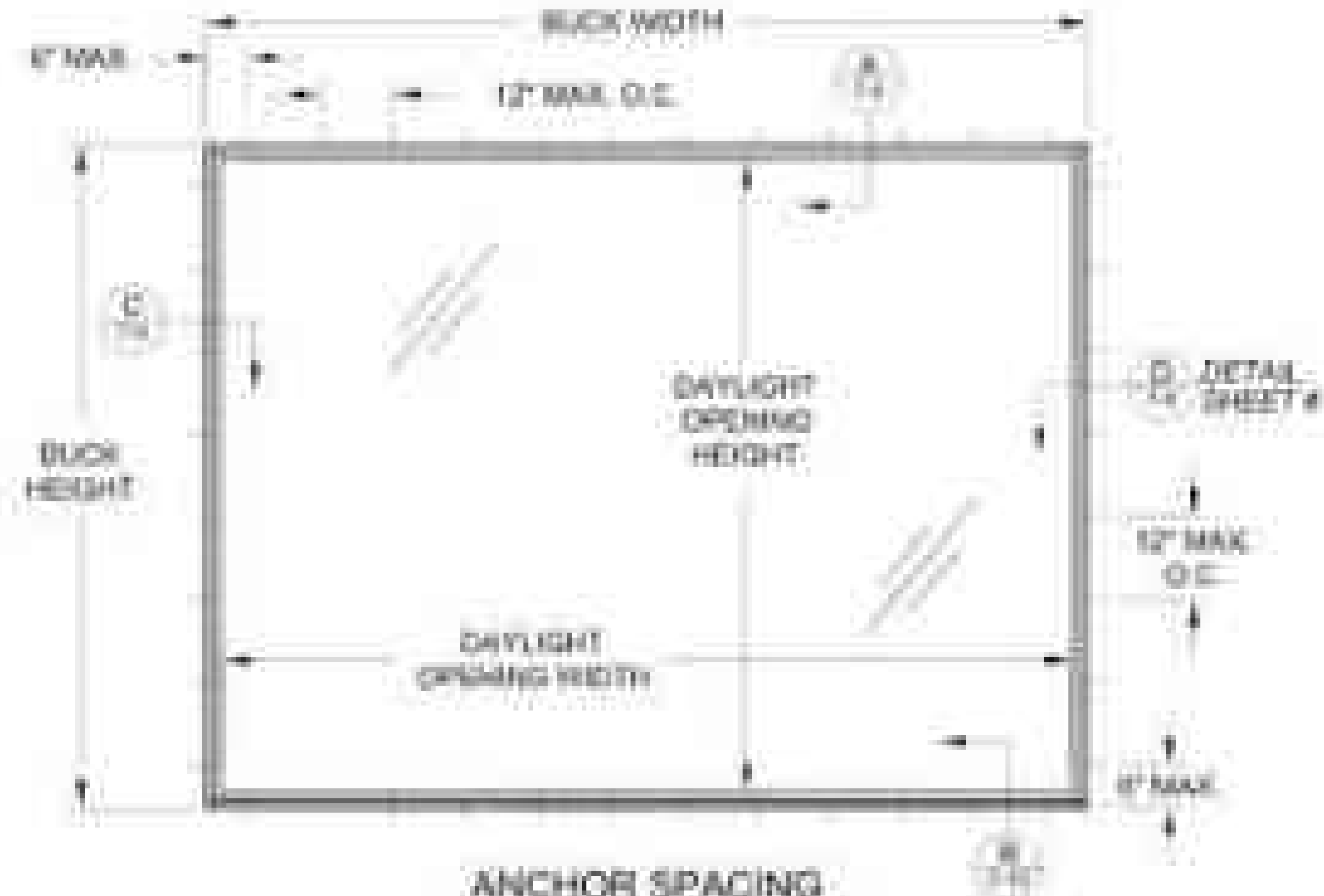
7) FRAME FLANGES OR INTEGRAL FINS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME. THE EXPOSED ALUMINUM EDGE MUST BE PAINTED TO PROTECT AGAINST CORROSION.

TABLE 1:

Anchor Type	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment or Metal Thickness
#12 Steel SMS (Gr. 5) or 410 SS SMS	Southern Pine (SG = 0.55)	9/16"	1"	1-3/8"
	6063-T5 Aluminum	3/8"	1"	0.125"
	A36 Steel	3/8"	1"	0.063" (16 Ga)
	Steel Stud, Gr. 33	3/8"	1"	0.045" (18 Ga)
1/4" Dewalt UltraCon+	Concrete (min. 3.0 ksi)	1-3/4"	4"	1-3/4"
	Grout-filled CMU (ASTM C90)	1-3/4"	4"	1-3/4"
	Hollow CMU (ASTM C90)	2"	3"	1-1/4"
	Southern Pine (SG = 0.55)	1"	1"	1-3/8"
1/4" 410 SS Elco CreteFlex	Concrete (min. 3.35 ksi)	1-1/4"	6"	1-3/4"
	Hollow or Grout-filled CMU (ASTM C90)	1-3/4"	6"	1-1/4"
	Southern Pine (SG = 0.55)	1"	1"	1-3/8"

1) ALL ANCHOR HEAD TYPES ARE APPLICABLE.
2) ANCHORS MUST BE OF SUFFICIENT LENGTH SO THAT A MINIMUM OF 3 THREADS EXTEND BEYOND METAL SUBSTRATE.

FLORIDA PRODUCT APPROVAL #



ANCHOR SPACING

SEE TABLES 2-11 FOR DP & MAX. SIZES

DLO = BUCK WIDTH OR HEIGHT - (2.230 x2) USING STANDARD RAILS
IF USING OPTIONAL TALL RAILS, SEE SHEET 11 FOR FRAME MEMBER HEIGHT DEDUCTIONS. DLO=BUCK HEIGHT-(2.23+FRAME MEMBER HEIGHT)

DESIGN PRESSURE RATING: SEE TABLES 2-11

IMPACT RATING: RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE MISSILE LEVEL D, WINDZONE 4

GENERAL NOTES 1
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ALL TEMPERED AND/OR LAMINATED GLASS OPTIONS IN THIS APPROVAL HAVE BEEN CERTIFIED BY THE SGCC FOR COMPLIANCE TO ANSI Z97.1 CLASS A AND CPSC 16 CFR 1201, CATEGORY II. THIS INCLUDES LAMINATED GLASS THAT IS MANUFACTURED WITH ANNEALED GLASS PLIES. FOR APPLICATIONS WHERE THE WINDOW IS BEING USED AS A GUARD, HEAT STRENGTHENED OR TEMPERED LAMINATED GLASS MUST BE USED.

ALL ARCHITECTURAL WINDOW SHAPES WITH ALL ALUMINUM OR THERMALLY BROKEN RAILS QUALIFIED. COMMON EXAMPLES SHOWN BELOW. INSCRIBE THE SHAPE IN A BLOCK (SEE EXAMPLES BELOW), AND OBTAIN DESIGN PRESSURES FOR THAT BLOCK SIZE FROM DESIGN PRESSURE TABLES.



ALUMINUM FIXED WINDOW (LM)

ELEVATION & GENERAL NOTES

PW9020A

1 OF 13

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

TABLE 2:

Maximum Design Pressure (psf) for Units with Glass Type A

Buck Height (in)	Buck Width (in) 24		30		36		42		48		54		60		66		72		78		84		90		96	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24	110.0	147.3	110.0	145.4	110.0	144.7	110.0	143.3	110.0	142.0	110.0	140.7	110.0	139.3	110.0	138.0	110.0	136.7	110.0	135.3	110.0	134.0	110.0	132.7	110.0	131.3
30	110.0	146.0	110.0	145.8	110.0	148.2	110.0	152.6	110.0	140.8	110.0	139.2	110.0	137.5	110.0	135.8	110.0	134.2	110.0	132.5	110.0	130.8	110.0	129.2	110.0	127.5
36	110.0	144.7	110.0	144.2	110.0	144.6	110.0	142.0	110.0	140.5	110.0	138.8	110.0	136.8	110.0	134.8	110.0	132.0	110.0	130.0	110.0	128.0	110.0	126.0	110.0	124.0
42	110.0	143.3	110.0	142.6	110.0	142.8	110.0	141.9	110.0	139.5	110.0	137.2	110.0	134.8	112.4	132.5	110.0	130.2	110.0	127.8	110.0	125.5	110.0	123.2	110.0	120.8
48	110.0	142.0	110.0	140.4	110.0	140.9	110.0	150.4	110.0	138.3	110.0	136.7	110.0	134.0	110.0	131.3	110.0	128.7	110.0	126.0	110.0	123.3	110.0	120.7	110.0	118.0
54	110.0	140.7	110.0	138.2	110.0	139.0	110.0	137.2	110.0	136.7	110.0	135.5	110.0	133.5	110.0	130.5	110.0	127.5	110.0	124.5	110.0	121.5	110.0	118.5	110.0	115.5
60	110.0	139.3	110.0	137.5	110.0	135.8	110.0	134.8	110.0	134.0	110.0	133.8	110.0	123.3	110.0	130.8	110.0	128.7	110.0	123.3	110.0	120.8	110.0	116.7	110.0	113.3
66	110.0	138.0	110.0	131.8	110.0	134.6	110.0	132.6	110.0	131.3	110.0	130.6	110.0	120.6	110.0	129.6	110.0	126.2	110.0	122.6	110.0	118.6	110.0	115.2	110.0	111.6
72	110.0	136.7	110.0	134.3	110.0	132.6	110.0	130.3	110.0	128.7	110.0	127.4	110.0	126.7	110.0	128.2	110.0	126.0	110.0	122.0	110.0	116.5	110.0	114.6	110.0	110.0
78	110.0	135.3	110.0	132.5	110.0	130.6	110.0	127.9	110.0	126.4	110.0	124.8	110.0	123.3	110.0	122.3	110.0	120.0	110.0	121.8	110.0	117.5				
84	110.0	134.0	110.0	130.6	110.0	128.4	110.0	125.9	110.0	123.3	110.0	121.9	110.0	120.6	110.0	118.8	110.0	116.6	110.0	117.6						
90	110.0	132.7	110.0	125.2	110.0	126.6	110.0	123.2	110.0	120.7	110.0	118.8	110.0	116.7	110.0	115.2	110.0	114.0								
96	110.0	131.3	110.0	127.3	110.0	124.6	110.0	120.6	110.0	118.6	110.0	115.6	110.0	113.2	110.0	111.5	110.0	110.0								
102	110.0	130.0	110.0	125.9	110.0	122.5	110.0	118.5	110.0	115.3	110.0	112.6	110.0	112.6	107.8	107.8										
108	110.0	128.7	110.0	124.2	110.0	120.9	110.0	116.2	110.0	112.7	108.9	109.3	108.7	108.7												
114	110.0	127.3	110.0	122.5	110.0	118.6	110.0	113.8	110.0	110.2	106.4	106.3	105.3	105.3												
120	110.0	126.0	110.0	120.8	110.0	116.6	110.0	111.6	107.5	107.5	102.3	102.3	100.7	100.7												
126	110.0	124.7	110.0	119.2	110.0	114.6	108.2	108.2	104.7	104.7	100.7	100.0														
132	110.0	123.3	110.0	117.4	110.0	112.9	108.8	108.8	102.0	102.0	97.3	97.3														
138	110.0	122.8	110.0	115.4	110.0	110.8	104.5	104.5	99.2	99.2																
144	110.0	120.7	110.0	114.3	108.0	108.0	102.2	102.2	96.7	96.7																

TABLE 3:

Maximum Design Pressure (psf) for Units with Glass Type B

Buck Height (in)	Buck Width (in) 24		30		36		42		48		54		60		66		72		78		84		90		96	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0
30	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0
36	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0
42	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	131.7
48	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	131.3	110.0	128.6
54	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	133.0	110.0	127.6	110.0	121.3
60	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	130.6	110.0	123.4	110.0	118.7
66	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	127.7	110.0	120.3	110.0	113.6
72	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	134.9	110.0	126.5	110.0	118.6	110.0	110.0
78	110.0	135.0	110.0	135.0	110.0	130.6	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	134.4	110.0	132.7	110.0	125.0				
84	110.0	135.0	110.0	135.0	110.0	130.0	110.0	135.0	110.0	135.0	110.0	133.6	110.0	130.6	110.0	127.7	110.0	126.9	110.0	125.0						
90	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	131.3	110.0	127.3	110.0	123.3	110.0	120.3	110.0	114.0								
96	110.0	135.0	110.0	135.0	110.0	135.6	110.0	131.7	110.0	126.0	110.0	121.3	110.0	116.7	110.0	113.6	110.0	110.0								
102	110.0	135.0	110.0	135.0	110.0	134.6	110.0	127.6	110.0	125.7	110.0	115.4	110.0	112.6	106.7	106.7										
108	110.0	135.0	110.0	134.0	110.0	130.9	110.0	122.0	110.0	114.3	108.0	108.6	103.3	103.3												
114	110.0	135.0	110.0	132.4	110.0	120.0	110.0	117.7	110.0	110.4	102.0	102.4	96.7	96.7												
120	110.0	135.0	110.0	131.7	110.0	122.6	110.0	113.0	104.7	104.7	97.0	97.0	92.4	93.0												
126	110.0	134.4	110.0	128.1	110.0	118.8	108.3	108.3	99.5	99.5	91.0	91.0														
132	110.0	133.0	110.0	123.6	110.0	114.8	100.7	100.7	94.6	94.6	88.0	88.0														
138	110.0	134.0	110.0	121.7	110.0	113.8	98.6	98.6	90.7	90.7																
144	110.0	131.3	110.0	116.3	106.0	106.0	94.3	94.3	83.3	83.3																

NOTES:
1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE DIMENSION.

2) THE WIDTH AND HEIGHT ON THE TABLE MAY BE TRANSPOSED TO MATCH WINDOW DIMENSIONS.

NO CHANGES THIS SHEET

ALUMINUM FIXED WINDOW (LM)

DESIGN PRESSURE TABLES

3 OF 13

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

TABLE 4

Maximum Design Pressure (psf) for Units with Glass Types A or C

Stack Height (in)	Stack Width (in)																											
	54		57		60		63		66		69		72		75		78		81		84		87		90		93		96	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
72	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0
75	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0
78	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0
81	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0
84	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0
87	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0
90	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0
93	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0
96	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	99.1	119.0	99.2	109.5	97.1	106.5	95.5	107.9	96.0	107.3	95.7	107.3	95.9	106.6
99	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	96.5	110.0	97.1	108.5	95.9	107.2	94.0	108.1	94.1	105.2	93.5	104.6	93.1	104.3	92.8	103.7
102	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	98.5	110.5	96.9	108.2	95.0	106.0	94.0	105.0	92.9	103.8	92.0	102.8	91.2	102.0	90.7	101.4	90.3	100.9
105	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	99.1	119.0	97.0	108.4	95.2	106.4	93.6	104.6	92.2	103.1	91.1	101.8	90.1	100.7	89.3	99.8	88.6	99.0	88.1	98.4
108	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	97.7	109.2	95.9	106.9	93.8	104.8	92.1	103.0	90.7	101.3	89.4	99.8	88.3	98.7	87.4	97.7	86.7	96.9	86.1	96.2
111	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	99.3	119.0	96.5	107.8	94.4	105.5	92.4	103.3	90.7	101.4	89.2	99.7	87.9	98.2	86.8	97.0	85.8	95.9	84.9	94.9		
114	120.0	119.0	120.0	119.0	120.0	119.0	120.0	119.0	97.9	118.4	95.4	106.8	93.2	104.1	91.2	101.9	89.4	100.0	87.8	98.2	86.5	96.7	85.3	95.3	84.3	94.2				
117	120.0	119.0	120.0	119.0	120.0	119.0	96.7	116.9	94.3	105.4	92.1	102.9	90.1	100.7	88.3	98.7	86.7	96.9	85.2	95.3	84.0	93.9								
120	120.0	119.0	120.0	119.0	120.0	119.0	95.8	115.9	93.3	104.3	91.1	101.9	89.0	99.5	87.2	97.4	85.5	95.6	84.1	94.0										
123	120.0	119.0	120.0	119.0	120.0	119.0	97.9	109.3	95.3	106.2	92.3	103.2	90.1	100.7	88.0	98.4	86.2	96.3	84.5	94.4	83.0	92.7								
126	120.0	119.0	120.0	119.0	120.0	119.0	97.1	108.6	94.2	105.3	91.5	102.4	89.3	99.8	87.1	97.4	85.2	95.3	83.5	93.3										
129	120.0	119.0	120.0	119.0	98.7	119.0	96.4	107.7	93.5	104.4	90.6	101.5	88.4	98.8	86.3	96.4	84.3	94.3												
132	120.0	119.0	120.0	119.0	98.0	119.0	95.7	107.0	92.7	103.6	89.7	100.7	87.7	98.0	85.8	95.9	83.9	93.9												
135	120.0	119.0	120.0	119.0	98.4	119.0	95.0	106.3	92.0	102.9	89.4	99.9	86.9	97.2	84.7	94.7														
138	120.0	119.0	120.0	119.0	97.8	119.0	94.4	105.5	91.4	102.2	88.7	99.1	86.3	96.4	84.0	93.8														
141	120.0	119.0	120.0	119.0	97.2	119.0	93.8	104.9	90.9	101.5	88.1	98.4	85.6	95.7																
144	120.0	119.0	120.0	119.0	96.8	119.0	93.3	104.3	90.3	100.8	87.5	97.8	85.0	* 94.9																

* 94.9 FOR GLAZING TYPE A AND 93.0 FOR GLAZING TYPE C

NOTES:
1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE DIMENSION

2) THE WIDTH AND HEIGHT ON THE TABLE MAY BE TRANSPOSED TO MATCH WINDOW DIMENSIONS

REVISE TABLES

DATE

BY

DESIGNED BY: ANTHONY LYNN MILLER, LICENSE No. 58705, STATE OF FLORIDA, PROFESSIONAL ENGINEER

ALUMINUM FIXED WINDOW (LM)

DESIGN PRESSURE TABLES

SHEET NO. 3 OF 4

PW3004

ANTHONY LYNN MILLER, LICENSE No. 58705, STATE OF FLORIDA, PROFESSIONAL ENGINEER

TABLE 5

Maximum Design Pressure (psf) for Units with Glass Types D & E

Buck Height (in)	46 Pos	46 Neg	48 Pos	48 Neg	50 Pos	50 Neg	52 Pos	52 Neg	54 Pos	54 Neg	56 Pos	56 Neg	58 Pos	58 Neg	59-11/16 Pos	59-11/16 Neg	62 Pos	62 Neg	64 Pos	64 Neg	66 Pos	66 Neg	68 Pos	68 Neg	70 Pos	70 Neg	72 Pos	72 Neg	72-9/16 Pos	72-9/16 Neg
72-9/16	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
78	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
82	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
86	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	79.6	90.0	79.9	90.0	78.7	90.0
90	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	79.6	90.0	78.1	90.0	77.2	90.0	75.4	89.8	76.2	88.9
94	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	79.5	90.0	78.2	90.0	77.1	90.0	76.1	90.0	75.2	89.3	74.3	88.4		
98	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	79.5	90.0	77.8	90.0	76.6	90.0	75.4	89.6	74.4	87.2						
102	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	79.6	90.0	78.2	90.0	76.5	90.0	75.2	88.3	74.0	86.0								
106	80.0	89.7	80.0	89.2	80.0	89.8	80.0	90.0	80.0	90.0	80.0	90.0	78.4	89.3	77.0	88.8	75.3	87.1	73.9	84.8										
110	80.0	83.0	80.0	83.7	80.0	84.2	80.0	84.9	80.0	85.7	79.1	86.2	77.3	85.4	75.9	84.4														
113-11/16	80.0	80.2	80.0	80.3	80.0	80.8	80.0	81.3	80.0	81.8	78.2	81.9	76.4	82.3	75.0	81.5														
118	76.8	76.8	76.5	76.5	77.0	77.0	77.0	77.6	78.1	78.1	77.3	78.2																		
122	73.2	73.2	73.5	73.5	73.4	73.4	74.1	74.1	74.6	74.6																				
126-9/16	69.7	69.7	69.0	69.0	69.4	69.4	69.8	69.0																						

TABLE 6

Maximum Design Pressure (psf) for Units with Glass Types F & G

Buck Height (in)	46 Pos	46 Neg	48 Pos	48 Neg	50 Pos	50 Neg	52 Pos	52 Neg	54 Pos	54 Neg	56 Pos	56 Neg	58 Pos	58 Neg	60 Pos	60 Neg	62 Pos	62 Neg	64 Pos	64 Neg	66 Pos	66 Neg	68 Pos	68 Neg	70 Pos	70 Neg	72 Pos	72 Neg	72-9/16 Pos	72-9/16 Neg
72-9/16	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
78	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
82	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
86	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
90	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
94	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
98	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
102	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	79.9	89.6	79.9	88.7	78.8	88.4
106	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	79.9	90.0	80.0	90.0	79.5	89.5						
110	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	78.8	89.5								
114	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	79.8	89.8										
118	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0												
119-11/16	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0												
126-9/16	80.0	90.0	80.0	86.3	80.0	83.9	80.0	82.6	80.0	82.6	80.0	82.8	80.0	83.0																

NOTES:
1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE DIMENSION.
2) THE WIDTH AND HEIGHT ON THE TABLE MAY BE TRANSPOSED TO MATCH WINDOW DIMENSIONS.

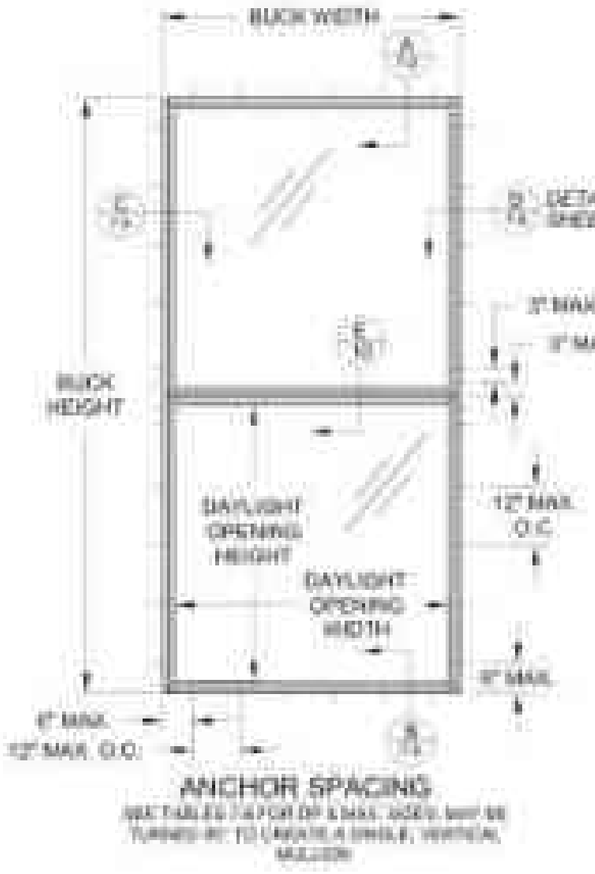
UPDATE TABLES 5 & 6 WITH NEW GLASS

ALUMINUM FIXED WINDOW (LM)

DESIGN PRESSURE TABLES

4 OF 13

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



ANCHOR SPACING

SEE TABLES 1 & 2 FOR DP & MAS. SIZES. MAY BE TURNED 90° TO CREATE A SINGLE, VERTICAL MULLION

TABLE 7

Maximum Design Pressure (psf) for Units with Glass Types A or B															
Rough Height (in)	Rough Width (in)														
	24		30		36		42		48		54		60		
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	
24	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	
30	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	
36	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	
42	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	
48	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	
54	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	143.4	150.0	
60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	132.5	150.0	
66	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	145.5	150.0	125.4	150.0	
72	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	138.8	150.0	119.6	142.9	
78	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	133.8	150.0	114.9	136.9	
84	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	129.9	150.0	109.9	131.0	
90	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	127.0	150.0	106.7	126.9	
96	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	125.0	150.0	104.2	125.0	
102	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	123.8	148.6	102.3	122.8	
108	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	123.5	148.1	101.0	121.2	
114	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	123.5	148.1	100.0	120.0	
120	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	123.5	148.1	100.0	120.0	

NOTES:
1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE DIMENSION

2) THE WIDTH AND HEIGHT ON THE TABLE MAY BE TRANSPOSED TO MATCH WINDOW DIMENSIONS

SEE SHEET 12 FOR MULLION & FRAME HEIGHT DEDUCTIONS REQUIRED TO CALCULATE GLS

TABLE 8

Maximum Design Pressure (psf) for Units with Glass Types D & E															
Rough Height (in)	Rough Width (in)														
	24		30		36		42		48		54		60		
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	
24	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
30	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
36	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
42	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
48	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
54	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
60	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
66	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
72	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
78	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
84	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
90	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
96	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
102	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
108	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
114	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
120	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	

UPDATE TABLE 8 WINDOW CLASS

1	06/28/23	ADDENDUM 1

ALUMINUM FIXED WINDOW (LAM)

DESIGN PRESSURE TABLES

PW1003A

6 OF 13

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

NOTES:
1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE DIMENSION.

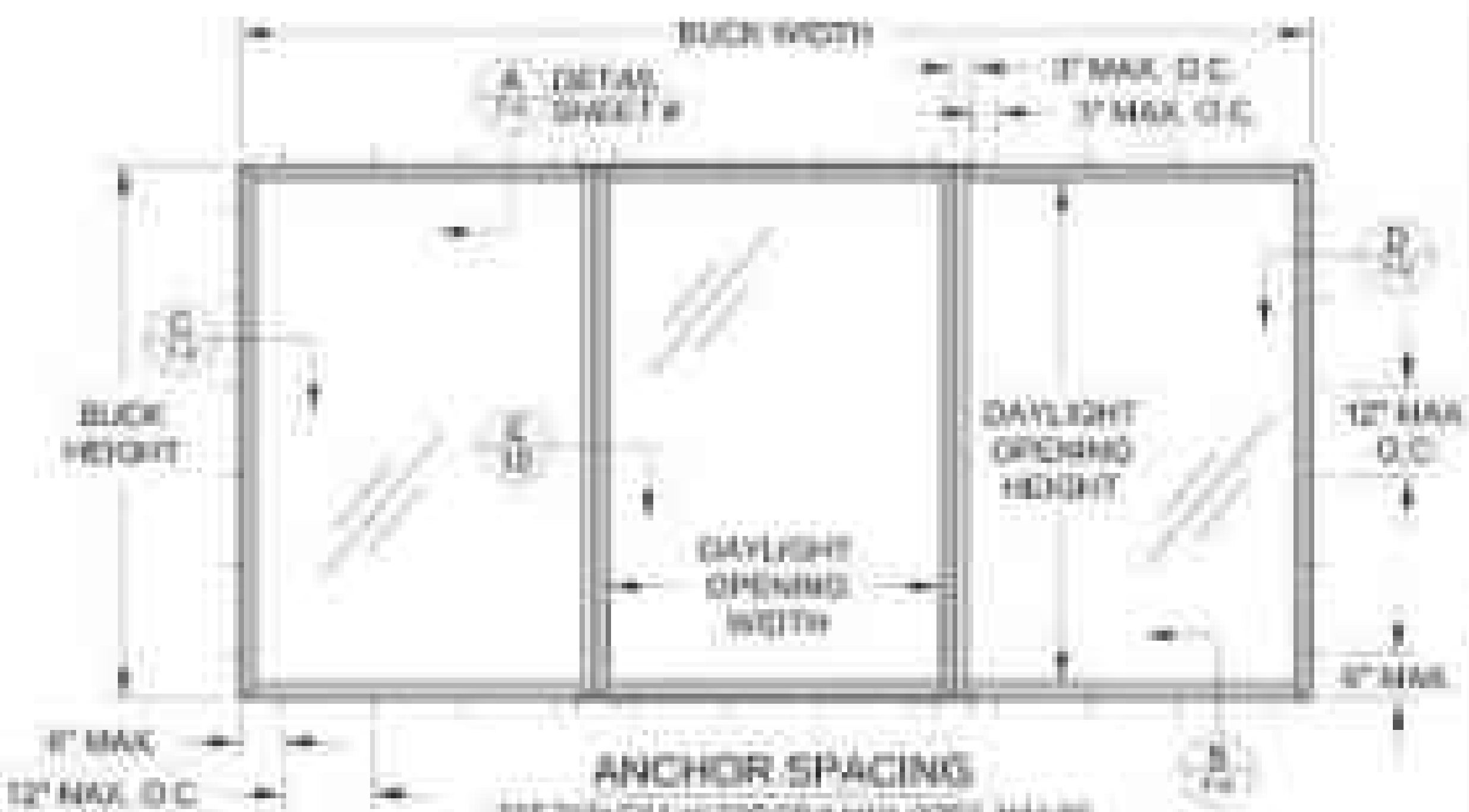
2) THE WIDTH AND HEIGHT ON THE TABLE MAY BE TRANSPOSED TO MATCH WINDOW DIMENSIONS.

SEE SHEET 12 FOR MULLION & FRAME MEMBER REDUCTIONS REQUIRED TO CALCULATE DLO

TABLE 9:

Maximum Design Pressure (psf) for Units with Glass Types A or B

Buck Height (in)	Buck Width (in)									
	72		90		108		126		144	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0
30	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0
36	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0
42	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0
48	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0
54	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0
60	100.0	125.0	100.0	125.0	100.0	125.0	100.0	119.6	100.0	113.3
66	100.0	125.0	100.0	125.0	100.0	113.3	100.0	103.6	97.1	97.1
72	100.0	125.0	100.0	114.5	100.0	100.7	91.4	91.4	85.0	85.0



ANCHOR SPACING

TABLE 10:

Maximum Design Pressure (psf) for Units with Glass Types D & E

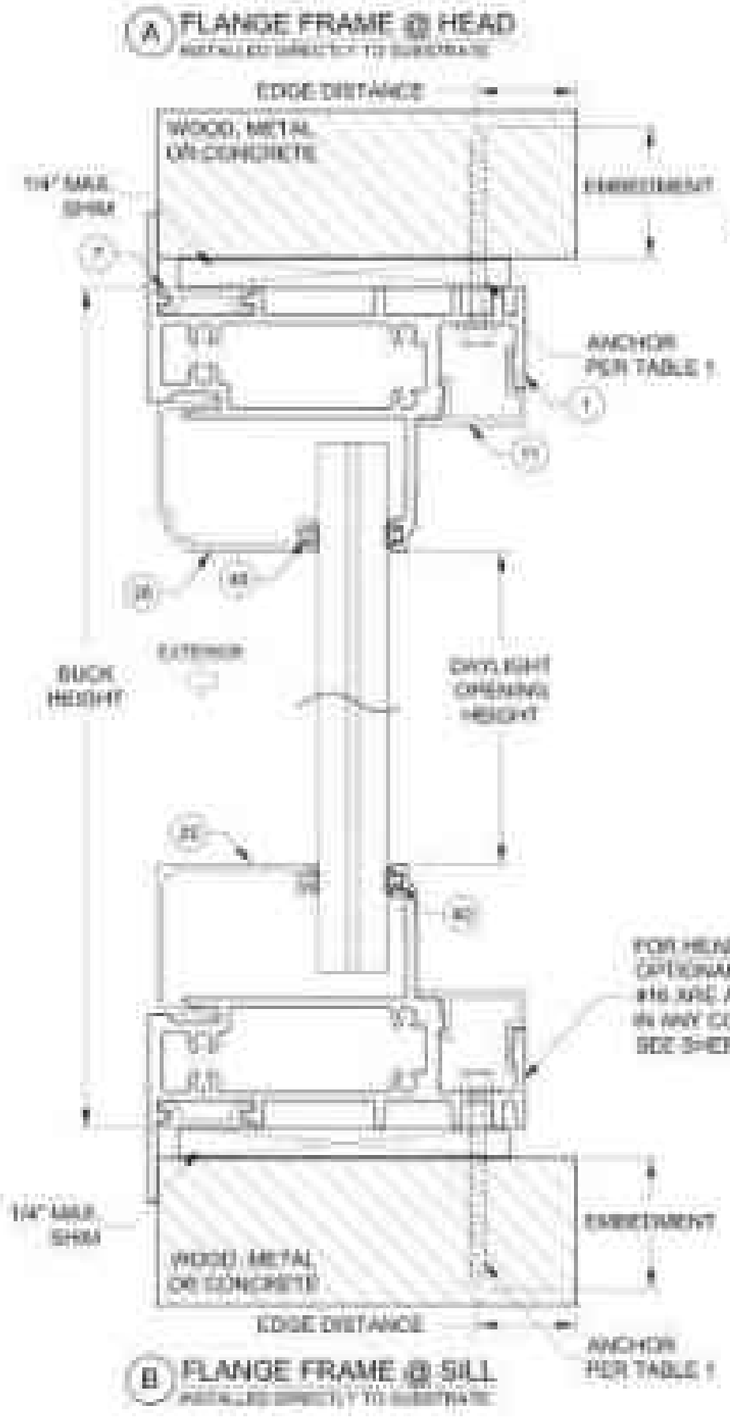
Buck Height (in)	Buck Width (in)									
	72		90		108		126		144	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
30	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
36	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
42	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
48	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
54	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
60	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
66	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
72	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0

UPDATE TABLE 9 WITH NEW GLASS

ALUMINUM FIXED WINDOW (LM)

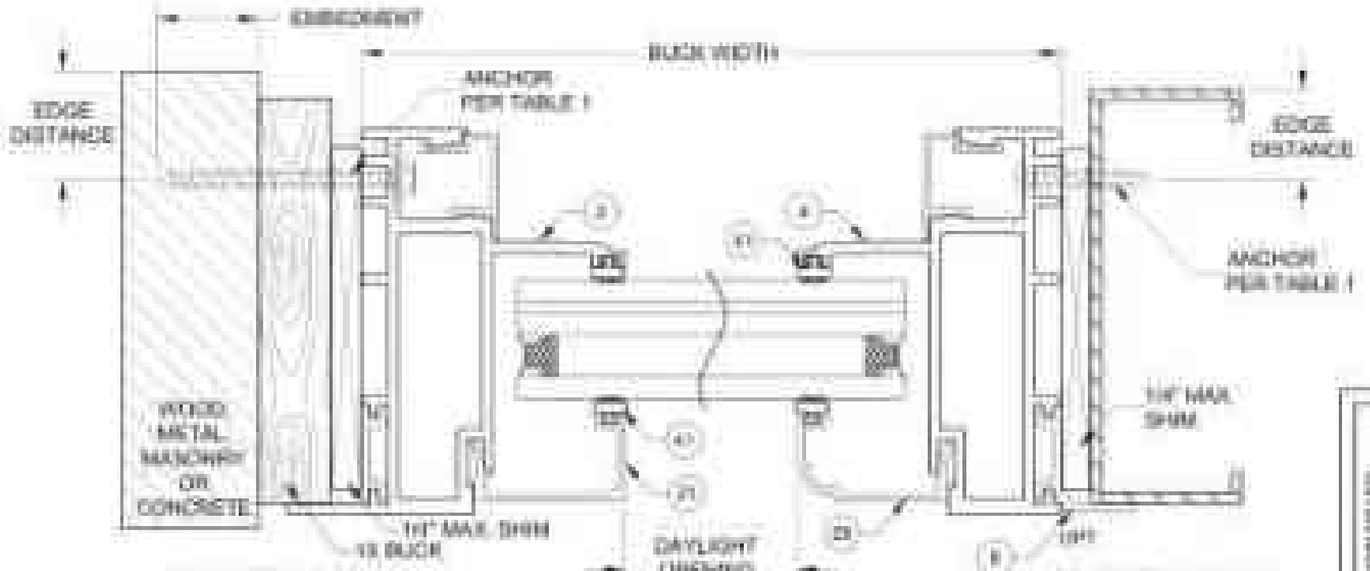
DESIGN PRESSURE TABLES

ANTHONY LYNN MILLER
LICENSE
STATE OF FLORIDA
PROFESSIONAL ENGINEER



A FLANGE FRAME @ HEAD

B FLANGE FRAME @ SILL



C FLANGE FRAME @ LEFT JAMB

D FLANGE FRAME @ RIGHT JAMB

INSTALLATION NOTES:

1) SEE SHEET 1 FOR SPACING REQUIREMENTS.

2) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN TABLE 1. FOLLOW EMBEDMENT AND EDGE DISTANCE DIMENSIONS FROM TABLE 1 AND O.C. DIMENSION FROM THE ELEVATION ON SHEETS 1 OR 5-6.

3) ANY INSTALLATION OPTION SHOWN (2X BUCK, 1X BUCK, DIRECT TO MASONRY, STEEL STUD) MAY BE USED ON ANY SIDE OF THE WINDOW.

4) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.

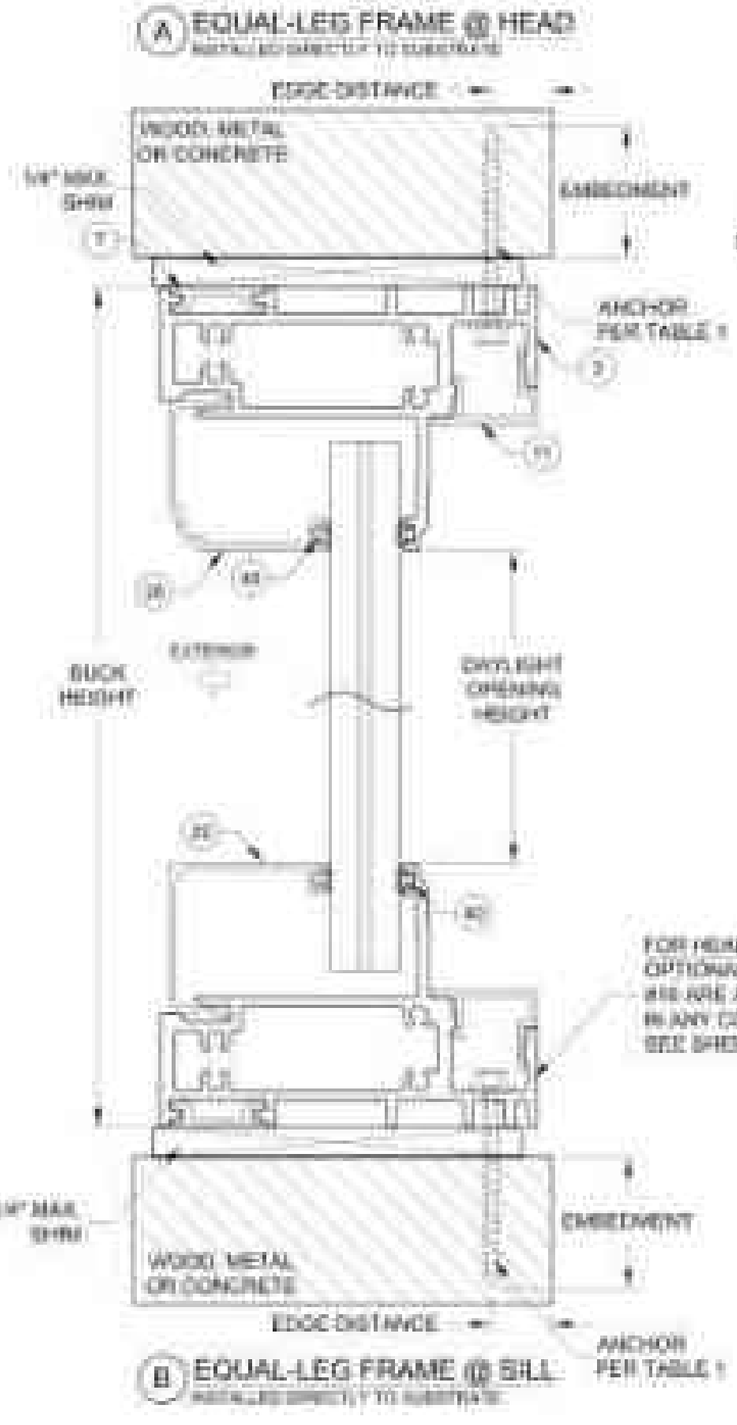
5) FRAME FLANGES MAY BE REMOVED IN FIELD TO CREATE AN EQUAL LEG FRAME. THE EXPOSED ALUMINUM EDGE MUST BE PAINTED TO PROTECT AGAINST CORROSION.

6) SHIM THICKNESS TO BE 1/4". IF SHIMS ARE REQUIRED, SHIM AT EACH ANCHOR LOCATION.

7) CONCRETE ANCHOR LOCATIONS MUST BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTAR JOINTS. ADDITIONAL CONCRETE ANCHORS MAY BE REQUIRED TO ENSURE THE O.C. DIMENSION IS NOT EXCEEDED.

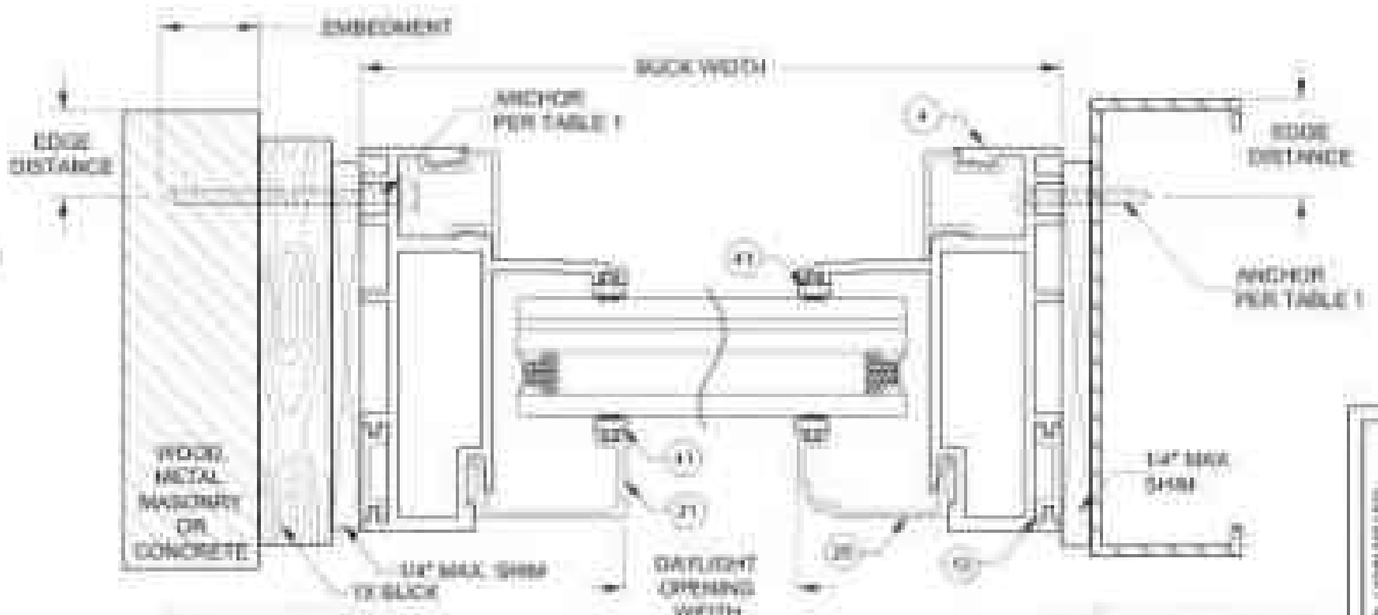
	UPDATE SHEET REFERENCES	1/1/25
	ADD NOA	9/26/23
	ADD NOA	6/1/23
	REVISIONS	
	ADD NOA	1
	ALUMINUM FIXED WINDOW (LM)	
	FLANGE FRAME INSTALLATION	7 OF 13
	PW3004	

ANTHONY LYNN SALAS
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER



A EQUAL-LEG FRAME @ HEAD
INSTALLED DIRECTLY TO SUBSTRATE

B EQUAL-LEG FRAME @ SILL
INSTALLED DIRECTLY TO SUBSTRATE



C EQUAL-LEG FRAME @ LEFT JAMB
USING 1X BUCK

D EQUAL-LEG FRAME @ RIGHT JAMB
METAL SUBSTRATE

INSTALLATION NOTES:

1) SEE SHEET 1 FOR SPACING REQUIREMENTS.

2) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN TABLE 1. FOLLOW EMBEDMENT AND EDGE DISTANCE DIMENSIONS FROM TABLE 1 AND O.C. DIMENSION FROM THE ELEVATION ON SHEETS 1 OR 5-6.

3) ANY INSTALLATION OPTION SHOWN (2X BUCK, 1X BUCK, DIRECT TO MASONRY, STEEL STUD) MAY BE USED ON ANY SIDE OF THE WINDOW.

4) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.

5) MAX. SHIM THICKNESS TO BE 1/4". IF SHIMS ARE REQUIRED, SHIM AT EACH ANCHOR LOCATION.

6) CONCRETE ANCHOR LOCATIONS MUST BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTAR JOINTS. ADDITIONAL CONCRETE ANCHORS MAY BE REQUIRED TO ENSURE THE O.C. DIMENSION IS NOT EXCEEDED.

		UPDATE SHEET REFERENCES
	05/26/23	
		ADD NOA NUMBER
		ADD TX
		PRODUCT

ALUMINUM FIXED WINDOW (LAM)

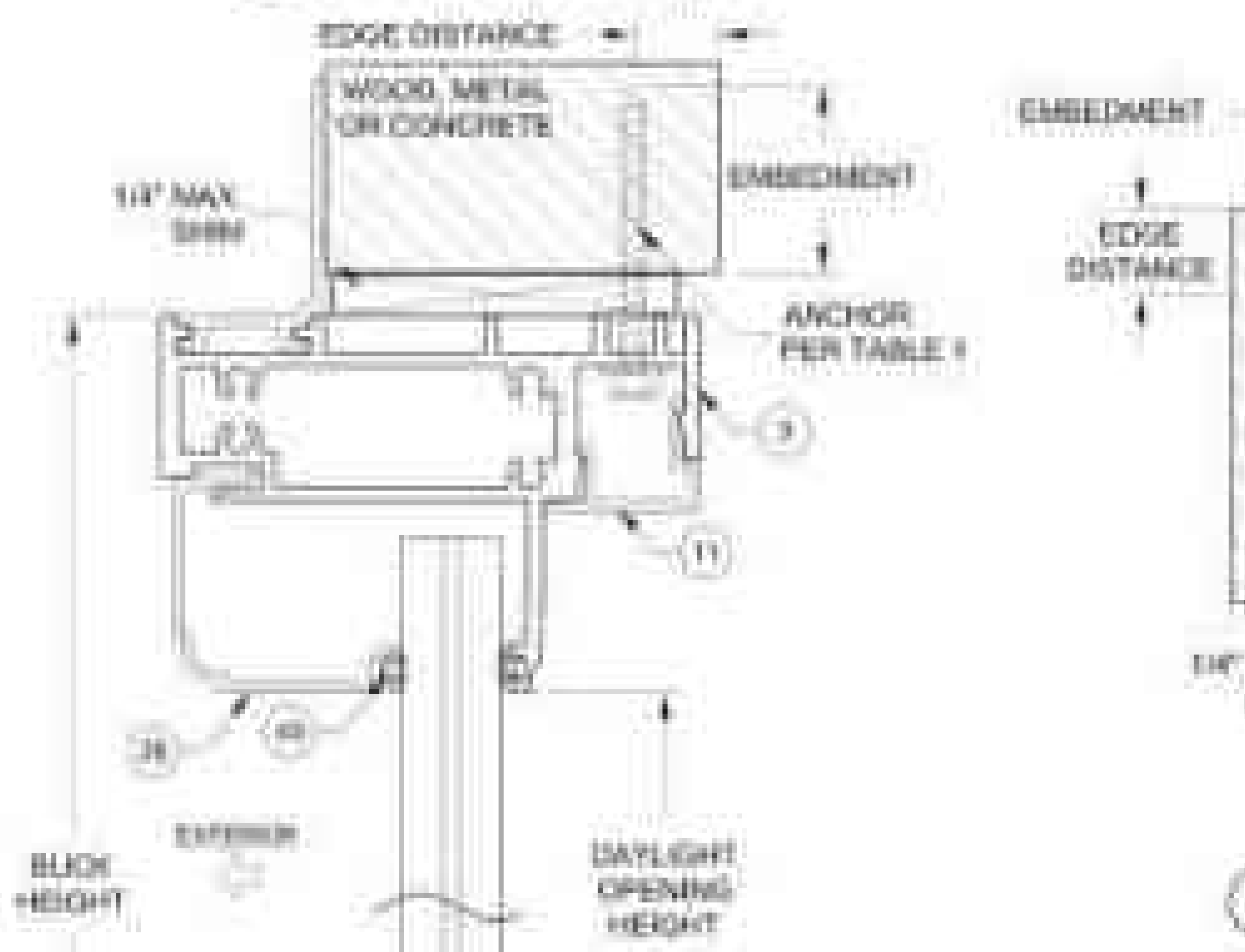
EQUAL LEG FRAME INSTAL

SCOTTSLAM-1

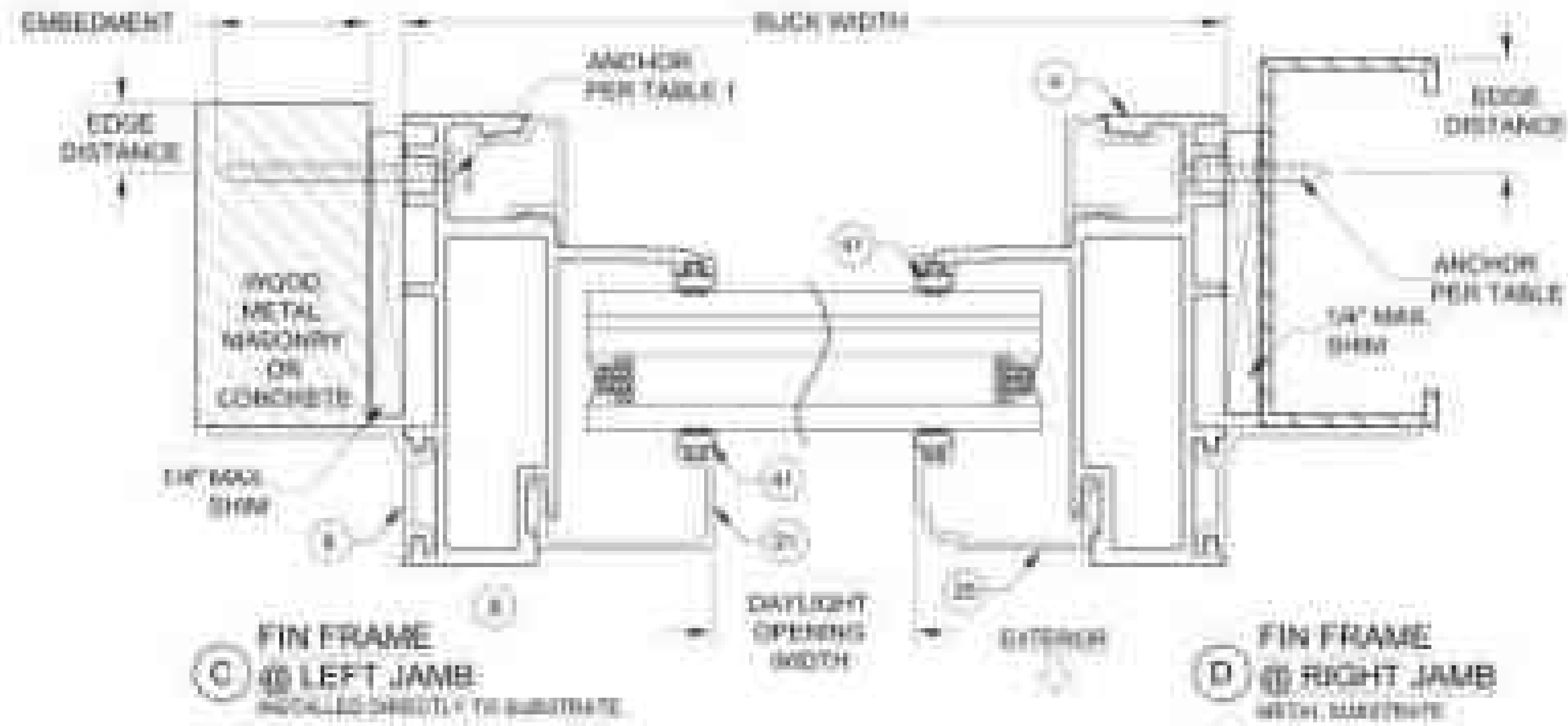
PREPARED BY: A. LYNN MILLER
SPECIALTY DOOR & WINDOW
1880 N. CONGRESS AVE.
WEST PALM BEACH, FL 33409
(561) 683-3993

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A FIN FRAME @ HEAD
INSTALLED DIRECTLY TO SUBSTRATE



B FIN FRAME @ SILL
INSTALLED DIRECTLY TO SUBSTRATE



C FIN FRAME @ LEFT JAMB
INSTALLED DIRECTLY TO SUBSTRATE

D FIN FRAME @ RIGHT JAMB
METAL SUBSTRATE

INSTALLATION NOTES:

1) SEE SHEET 1 FOR SPACING REQUIREMENTS.

2) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN TABLE 1. FOLLOW EMBEDMENT AND EDGE DISTANCE DIMENSIONS FROM TABLE 1 AND O.C. DIMENSION FROM THE ELEVATION ON SHEETS 1 OR 5-6.

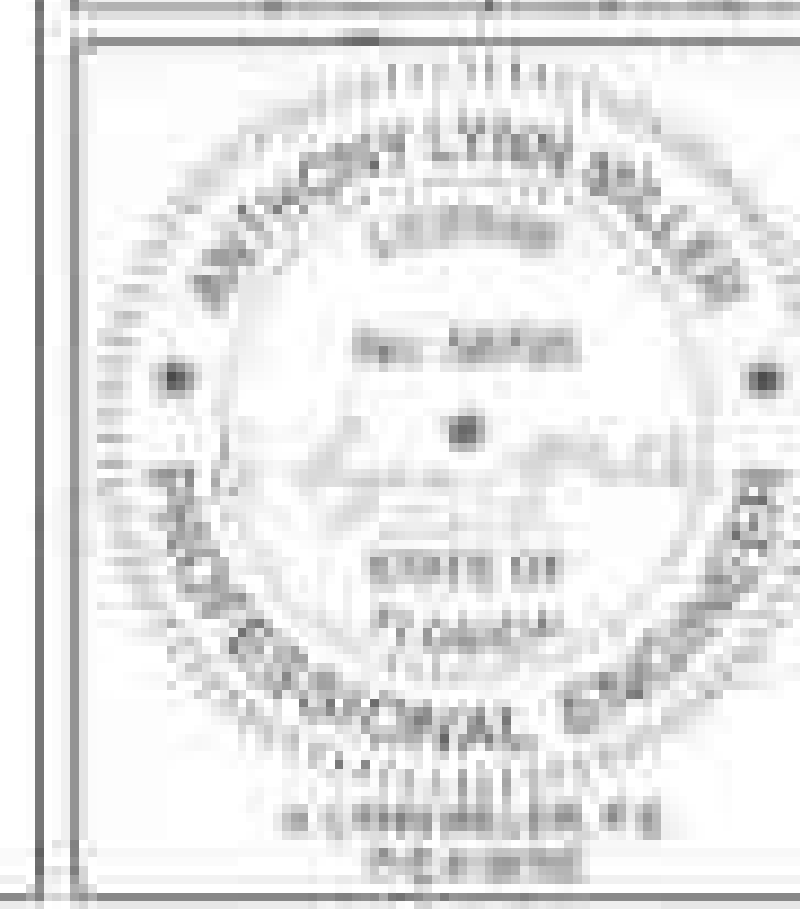
3) ANY INSTALLATION OPTION SHOWN (2X BUCK, 1X BUCK, DIRECT TO MASONRY, STEEL STUD) MAY BE USED ON ANY SIDE OF THE WINDOW.

4) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.

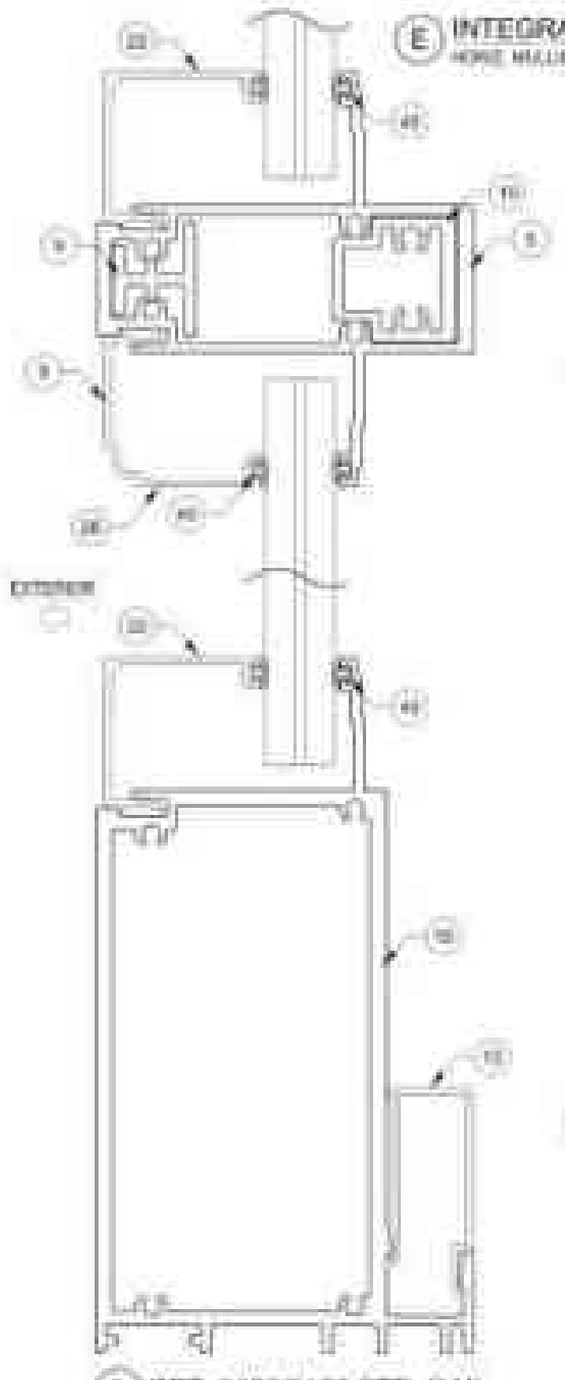
5) MAX. SHIM THICKNESS TO BE 1/4". IF SHIMS ARE REQUIRED, SHIM AT EACH ANCHOR LOCATION.

6) CONCRETE ANCHOR LOCATIONS MUST BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTAR JOINTS. ADDITIONAL CONCRETE ANCHORS MAY BE REQUIRED TO ENSURE THE O.C. DIMENSION IS NOT EXCEEDED.

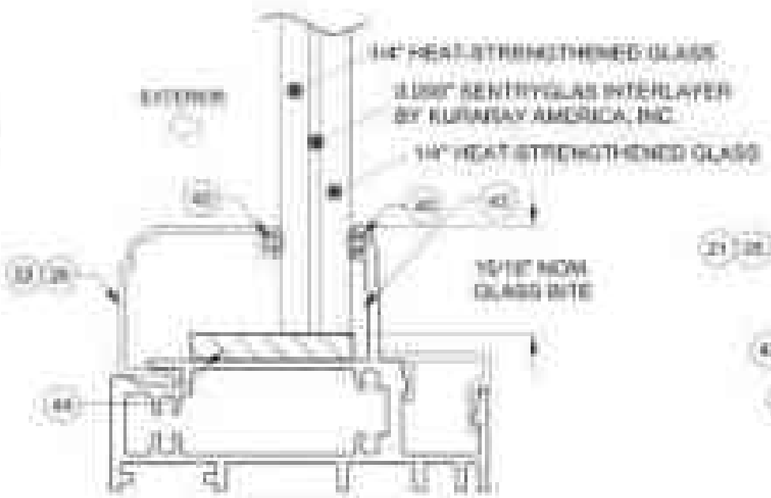
ALUMINUM FIXED WINDOW (LM)
FIN FRAME INSTALLATION
9 OF 13
PW0004



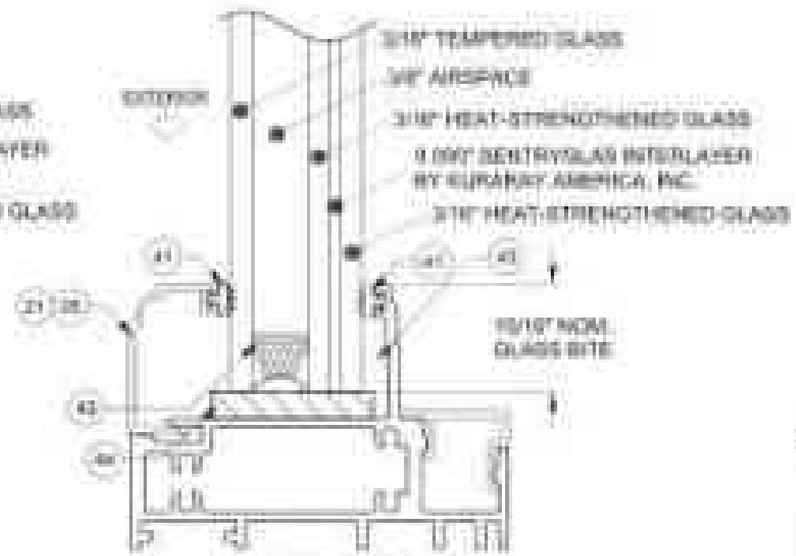
E INTEGRAL MULLION
HORIZ. MULLION SHOWN, VERT. SIMILAR



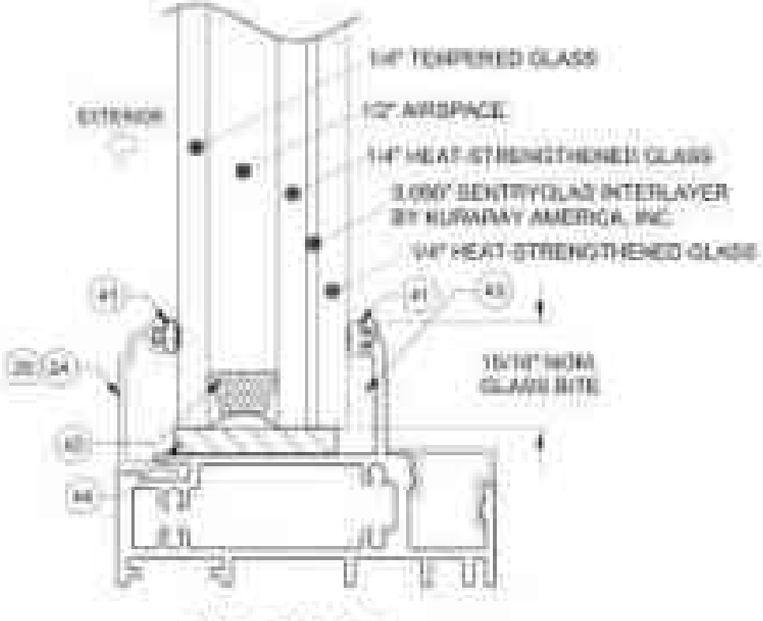
B OPT. 9050/8100 STD. RAIL



GLASS TYPE A
5/16" NOM. GLASS STACK



GLASS TYPE B
1" NOM. GLASS STACK

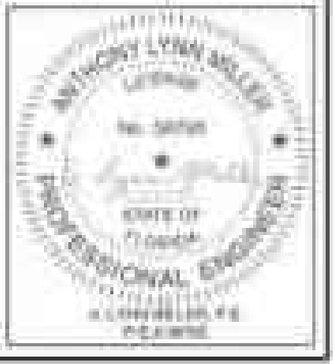


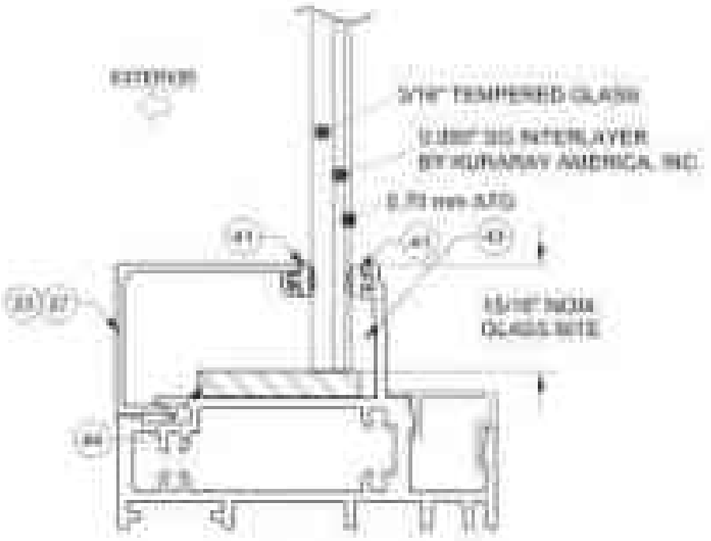
GLASS TYPE C
1-3/8" NOM. GLASS STACK

F		
E		
D		
C		
B	INCORPORATES THIS SHEET	07/25
A		

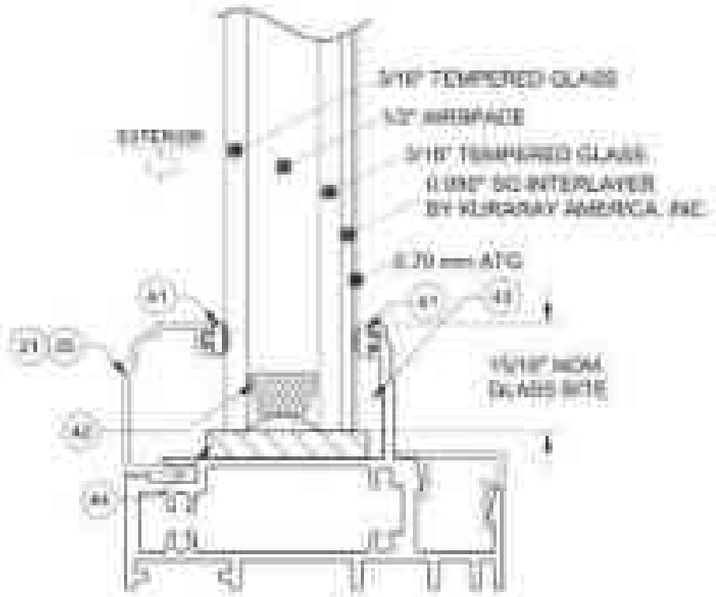
	ISSUED FOR PERMIT	06/28/23
	ISSUED FOR REVIEW	04/21/23
	SCHEMATIC	01/31/23

ALUMINUM FIXED WINDOW (ILM)
MULLION & GLAZING DETAILS
PW4020A
10 OF 13

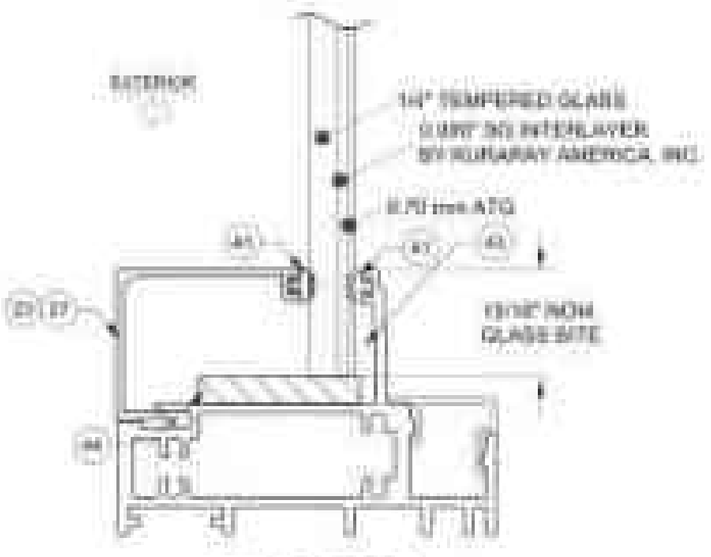




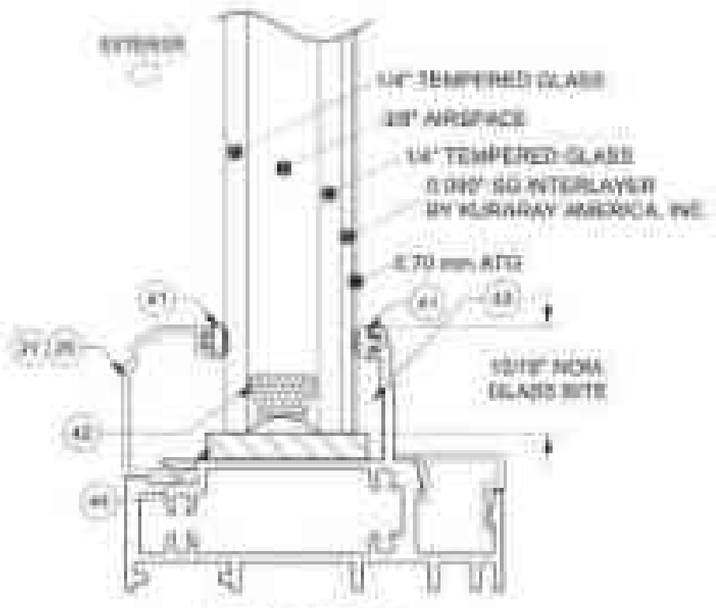
GLASS TYPE D
5/16" NOM. GLASS STACK



GLASS TYPE E
1" NOM. GLASS STACK



GLASS TYPE F
5/8" NOM. GLASS STACK



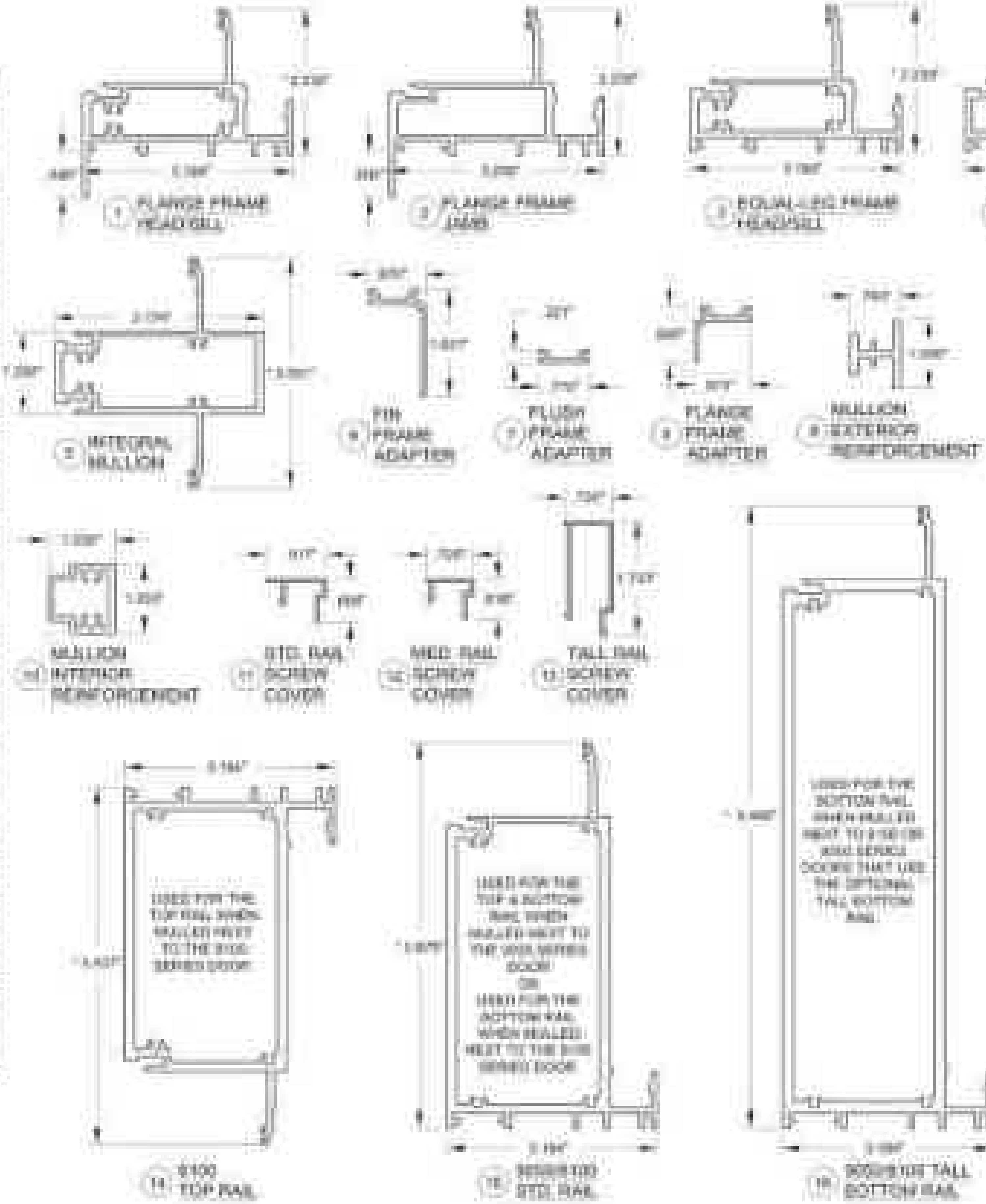
GLASS TYPE G
1" NOM. GLASS STACK

	UPDATED GLASS TYPE DETAILS	11/1/25
	BID SET/PLAN 1	9/29/2023
	PERMIT/PLAN 1	6/30/2023
	ALUMINUM FIXED WINDOW (LAV)	
	INSTALLATION & GLAZING DETAILS	
	PROPOSAL	11 OF 13

ANTHONY LYNN MILLER
LICENSE
No. 39795
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

TABLE 11

ITEM #	PART #	DESCRIPTION	MATERIAL
1	12012615	Flange Frame Head & Sill	ALUM. 6063-T6
2	12012676	Flange Frame Jamb	ALUM. 6063-T6
3	12012675	Equal-leg Frame Head & Sill	ALUM. 6063-T6
4	12012476	Equal-leg Frame Jamb	ALUM. 6063-T6
5	12012620	Integral Mullion	ALUM. 6063-T6
6	11049332	Fin Frame Adapter	ALUM. 6063-T6
7	11049330	Flush Frame Adapter	ALUM. 6063-T6
8	11049331	Flange Frame Adapter	ALUM. 6063-T6
9	11055556	Mullion Exterior Reinforcement	ALUM. 6063-T6
10	11055555	Mullion Interior Reinforcement	ALUM. 6063-T6
11	11049328	Std. Screw Cover	ALUM. 6063-T6
12	11052614	Med. Rail Screw Cover	ALUM. 6063-T6
13	11010617	Tall Rail Screw Cover	ALUM. 6063-T6
14	12012619	8100 Top Rail	ALUM. 6063-T6
15	12012617	8650/8100 Std. Rail	ALUM. 6063-T6
16	12012618	8650/8100 Tall Bottom Rail	ALUM. 6063-T6
20	11053609	1-3/8" Square Glass Beading	ALUM. 6063-T6
21	11052595	1" Square Glass Beading	ALUM. 6063-T6
22	11052597	9/16" Square Glass Beading	ALUM. 6063-T6
23	11052596	1/4" Square Glass Beading	ALUM. 6063-T6
24	11049083	1-3/8" OG Glass Beading	ALUM. 6063-T6
25	11049084	1" OG Glass Beading	ALUM. 6063-T6
26	11049324	9/16" OG Glass Beading	ALUM. 6063-T6
27	11049082	1/4" OG Glass Beading	ALUM. 6063-T6
28	11055400	Narrow Architectural Beading	ALUM. 6063-T6
29	11055399	Wide Architectural Beading	ALUM. 6063-T6
30	131014	#8 x 1" SMS (Frame Assembly)	Stainless Steel
31		#8 x 1-3/4" SMS (Mullion Assembly)	Stainless Steel
34	9620A1-WDI	Flange Frame Head & Sill, TB	ALUM. 6063-T6
35	9620A2-WDI	Flange Frame Jamb, TB	ALUM. 6063-T6
36	962A03-WDI	Equal-leg Frame Head & Sill, TB	ALUM. 6063-T6
37	962A11-WDI	Equal-leg Frame Jamb, TB	ALUM. 6063-T6
40	121009	Thin Glazing Vinyl, 80 +/-5 Duro.	Vinyl
41	121008	Thick Glazing Vinyl, 80 +/-5 Duro.	Vinyl
42		IG Spacer	varies
43		SikaFlex 552, Dow 791/983 Backbedding	Silicone
44		Setting Block, 85 +/-5 Duro.	Rubber



* FRAME MEMBER DEDUCTION USED TO CALCULATE DLO. NOTE THAT HEAD AND SILL VALUES MAY DIFFER.

NO CHANGES THIS SHEET

ALUMINUM FIXED WINDOW (LM)

BOM & EXTRUSIONS

12 OF 13

ANTHONY LYNN MILLER
LICENSE
STATE OF FLORIDA
PROFESSIONAL ENGINEER



1 3/8" GLASS
(3) SQUARE
BEADING



1" GLASS
(2) SQUARE
BEADING



9/16" GLASS
(1) SQUARE
BEADING



1/4" GLASS
(31) SQUARE
BEADING



1 3/8" GLASS
(4) OG BEADING



1" GLASS
(5) OG BEADING



9/16" GLASS
(6) OG BEADING



1/4" GLASS
(7) OG BEADING



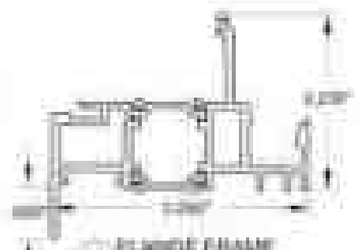
NARROW
(9) ARCHITECTURAL
BEADING



WIDE
(8) ARCHITECTURAL
BEADING



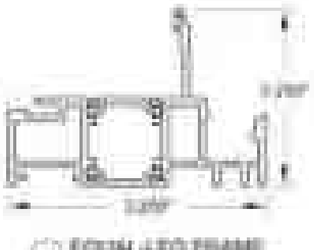
(24) FLANGE FRAME
HEAD/SILL
THERMALLY-BROKEN



(25) FLANGE FRAME
JAMB
THERMALLY-BROKEN



(30) EQUAL LEG FRAME
HEAD/SILL
THERMALLY-BROKEN



(32) EQUAL LEG FRAME
JAMB
THERMALLY-BROKEN

NO CHANGES THIS SHEET		F
		E
		D
		C
		B
		A
REVISIONS		
ALUMINUM FIXED WINDOW (LW)		
BOX & EXTRUSIONS	13 OF 13	
PW4020A		

ANTHONY LYNN MILLER
LICENSE
No. 38545
STATE OF
FLORIDA
PROFESSIONAL ENGINEER