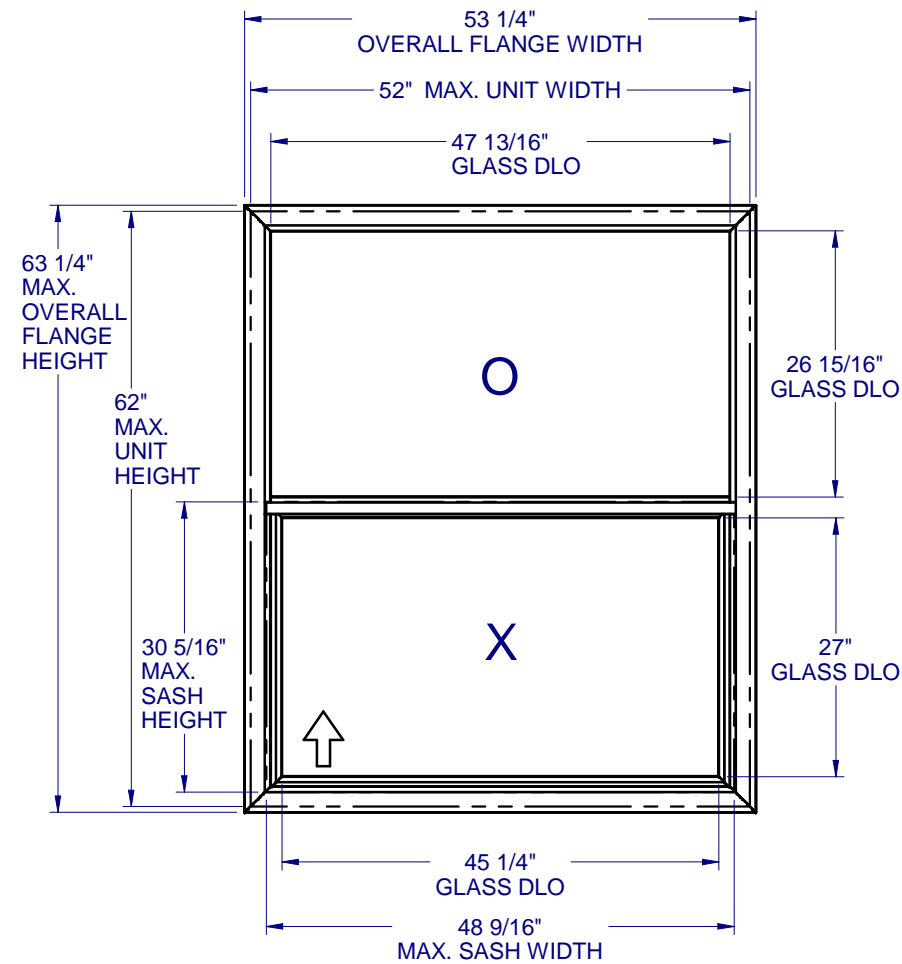
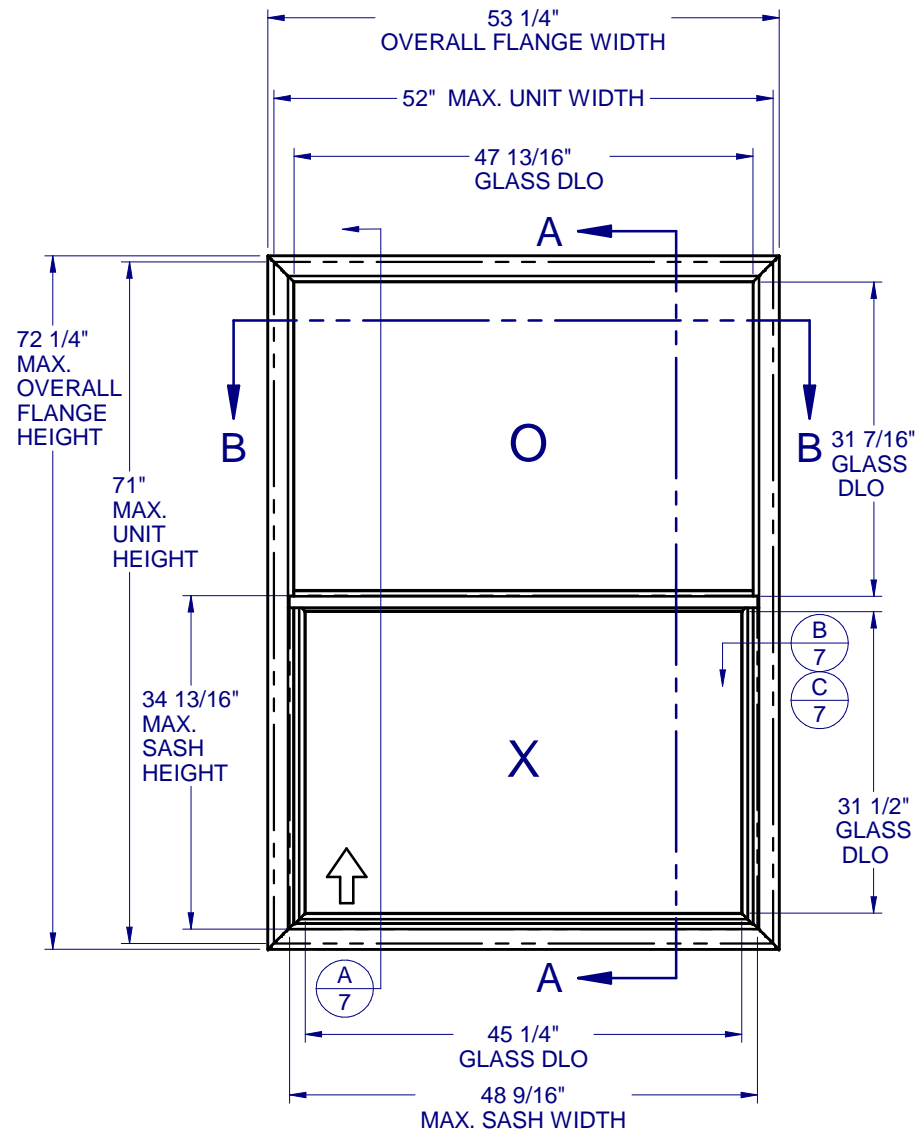


SINGLE HUNG - NON-IMPACT



GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
2. GLAZING OPTIONS: (SEE SHEET 2)
3. CONFIGURATIONS: "O/X".
4. DESIGN PRESSURE RATING (SEE SHEET 3):
-NEGATIVE DESIGN LOADS BASED ON, TESTED PRESSURE AND GLASS TABLES ASTM E-1300-04e01/09.
-POSITIVE DESIGN LOADS BASED ON, TESTED PRESSURE, WATER INFILTRATION TEST PRESSURE AND GLASS TABLES ASTM E-1300-04e01/09.
5. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 7 FOR ANCHOR DETAILS. WINDLOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
6. NOT APPROVED FOR IMPACT RESISTANCE. IMPACT PROTECTIVE SYSTEM IS REQUIRED IN WIND BORNE DEBRIS REGION.
7. ALL FRAMES AND VENTS FULLY WELDED. SMALL JOINT SEAM SEALANT USED AT FIXED MEETING RAIL AND JAMB.
8. SERIES / MODEL DESIGNATION SH-8100.
9. THE DESIGNATION X AND O STAND FOR THE FOLLOWING:
X = OPERABLE SASH, O = FIXED SASH
10. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.
11. EXTERNAL WEEP SLOT = 1/4" x 1" LOCATED 4" FROM BOTH ENDS.



510 PVC SINGLE HUNG NON-IMPACT

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FLORIDA APPROVAL NO.:
33447



9/26/2023

LUCAS A. TURNER, P.E.
FL PE # 58201
Turner Engineering & Consulting, Inc.
2428 Old Natchez Trc Trl
Camden, TN 38320
PH. 941-380-1574

SHEET DESCRIPTION:

GENERAL NOTES AND ELEVATIONS

DRAWN BY: MCS	DATE: 9/19/2023
DWG #: PEL-485	REV.: B
SCALE: 1:20	SHEET 1 OF 7

TABLE OF CONTENTS

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GLAZING DETAILS.....	2
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SECTION VIEWS.....	4
BOM & EXTRUSIONS.....	5
ANCHOR SCHEDULE & NOTES.....	6
INSTALLATION DETAILS.....	7

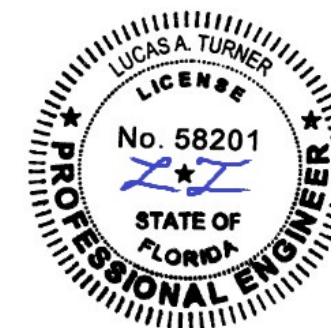
MAX. UNIT SIZE	DESIGN PRESSURE RATING	IMPACT RATING
52" x 62"	SEE COMPARATIVE ANALYSIS CHART, SHEET 3	NONE
52" x 71"		NONE

ANCHOR SCHEDULE VARIES DEPENDING ON UNIT SIZE, SEE SHEET 6 FOR DETAILS

**510 PVC
 SINGLE HUNG
 NON-IMPACT**

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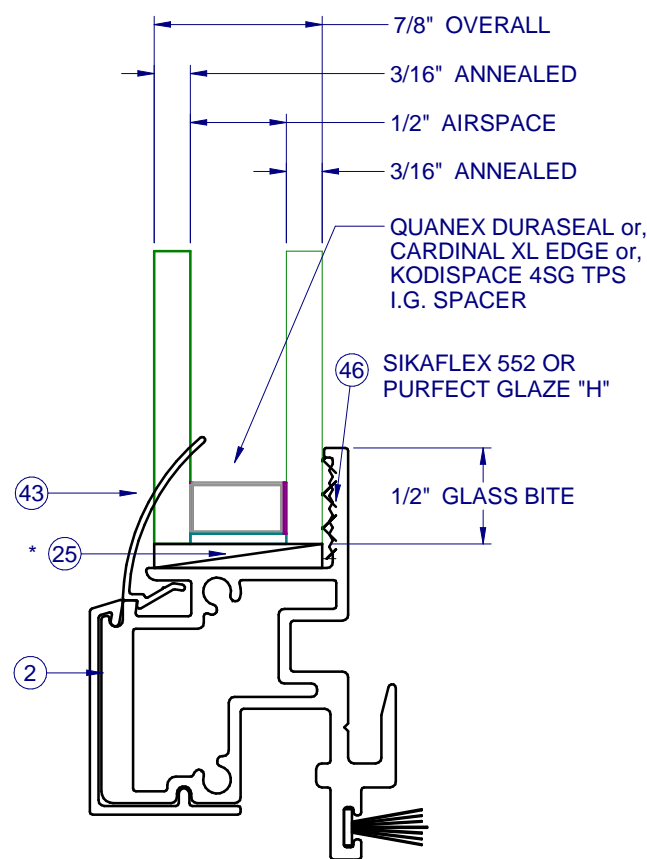
9/26/2023

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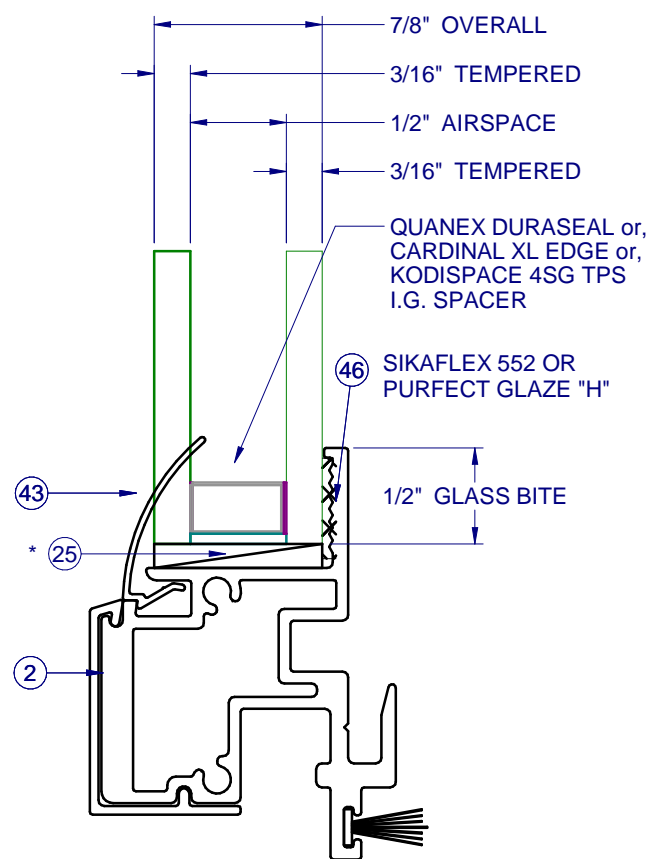
SHEET DESCRIPTION:

GLAZING DETAILS

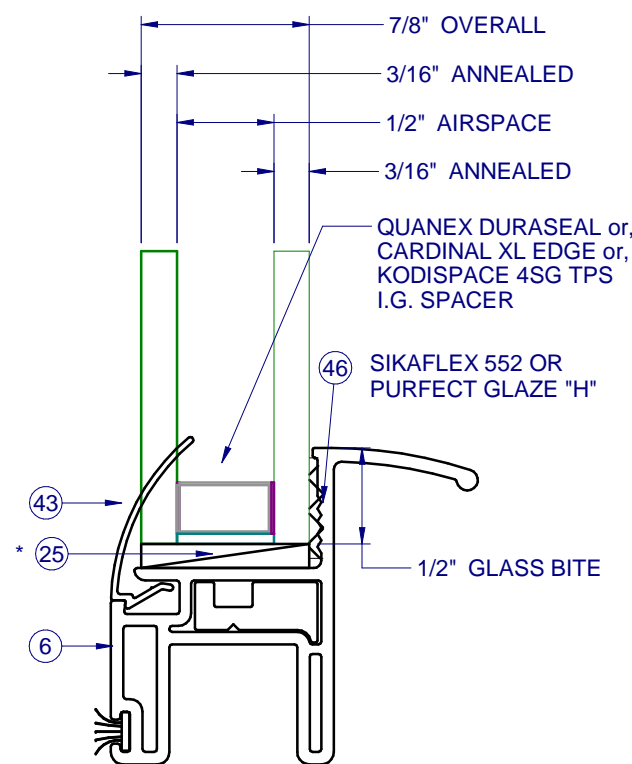
DRAWN BY: MCS	DATE: 9/19/2023
DWG #: PEL-485	REV.: B
SCALE: 1:1	SHEET 2 OF 7



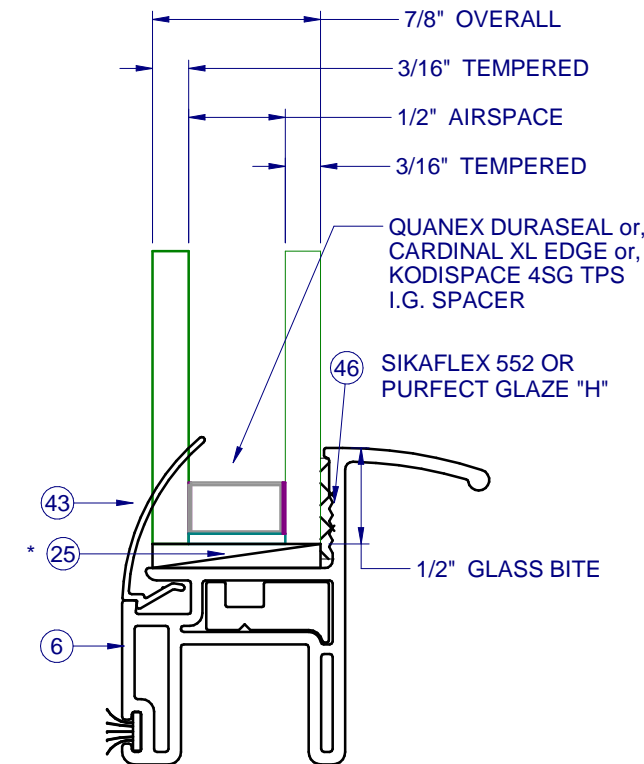
**GLASS TYPE A
 FIXED LITE**



**GLASS TYPE B
 FIXED LITE**



**GLASS TYPE C
 SASH LITE**



**GLASS TYPE D
 SASH LITE**

* SETTING BLOCKS PER FBC 2411.3.3.1

DESIGN PRESSURES FOR EQUAL SPLIT "OX" CONFIGURATION WITH GLASS TYPE A OR B (FIXED) AND GLASS TYPE C OR D (SASH)

Unit Height	Unit Width									
	23.500	25.500	27.500	31.500	35.500	39.500	43.500	47.500	49.500	52.000
25.500	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0
27.500	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0
29.500	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0
31.500	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -118.1
35.500	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -119.7	+70.0 / -113.8	+70.0 / -107.2
37.500	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -114.8	+70.0 / -109.1	+70.0 / -102.7
39.500	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -110.4	+70.0 / -104.9	+70.0 / -98.6
41.500	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -119.4	+70.0 / -106.5	+70.0 / -101.1	+70.0 / -95.0
43.500	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -115.7	+70.0 / -103.0	+70.0 / -97.7	+70.0 / -91.8
47.500	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -109.3	+70.0 / -97.0	+70.0 / -91.8	+70.0 / -86.1
49.500	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -106.5	+70.0 / -94.4	+70.0 / -89.3	+70.0 / -83.7
51.500	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -120.0	+70.0 / -119.7	+70.0 / -104.1	+70.0 / -92.1	+70.0 / -87.0	+70.0 / -81.5
53.500	+70.0 / -120.0	+70.0 / -119.1	+70.0 / -118.9	+70.0 / -118.9	+70.0 / -118.9	+70.0 / -117.4	+70.0 / -101.8	+70.0 / -89.9	+70.0 / -84.9	+70.0 / -79.4
55.500	+70.0 / -113.1	+70.0 / -111.2	+70.0 / -110.5	+70.0 / -110.5	+70.0 / -110.5	+70.0 / -110.5	+70.0 / -99.8	+70.0 / -88.0	+70.0 / -83.0	+70.0 / -77.6
59.500	+70.0 / -100.6	+70.0 / -98.1	+70.0 / -96.7	+70.0 / -96.1	+70.0 / -96.1	+70.0 / -96.1	+70.0 / -96.1	+70.0 / -84.6	+70.0 / -79.7	+70.0 / -74.3
61.500	+70.0 / -95.3	+70.0 / -92.7	+70.0 / -91.0	+70.0 / -90.0	+70.0 / -90.0	+70.0 / -90.0	+70.0 / -90.0	+70.0 / -83.1	+70.0 / -78.2	+70.0 / -72.9
63.500	+70.0 / -90.5	+70.0 / -87.8	+70.0 / -85.9	+70.0 / -84.4	+70.0 / -84.4	+70.0 / -84.4	+70.0 / -84.4	+70.0 / -81.7	+70.0 / -76.9	+70.0 / -71.6
65.500	+70.0 / -86.2	+70.0 / -83.4	+70.0 / -81.4	+70.0 / -79.4	+70.0 / -79.3	+70.0 / -79.3	+70.0 / -79.3	+70.0 / -79.3	+70.0 / -75.7	+70.0 / -70.3
67.500	+70.0 / -82.3	+70.0 / -79.4	+70.0 / -77.3	+70.0 / -75.0	+70.0 / -74.7	+70.0 / -74.7	+70.0 / -74.7	+70.0 / -74.7	+70.0 / -74.5	+69.2 / -69.2
71.000	+70.0 / -76.2	+70.0 / -73.3	+70.0 / -71.1	+68.4 / -68.4	+67.5 / -67.5	+67.5 / -67.5	+67.5 / -67.5	+67.5 / -67.5	+67.5 / -67.5	+67.5 / -67.5

NOTE: IF SIZE INTENDED IS NOT SHOWN, USE NEXT LARGER SIZE.



**510 PVC
SINGLE HUNG
NON-IMPACT**

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Camden, TN 38320
PH. 941-380-1574

SHEET DESCRIPTION:

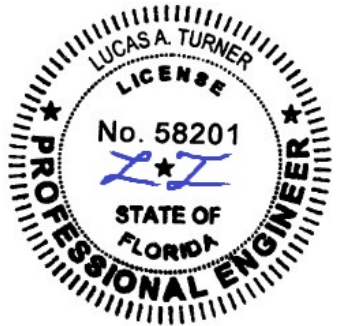
COMPARATIVE ANALYSIS

DRAWN BY: MCS	DATE: 9/19/2023
DWG #: PEL-485	REV.: B
SCALE: 1:1	SHEET 3 OF 7

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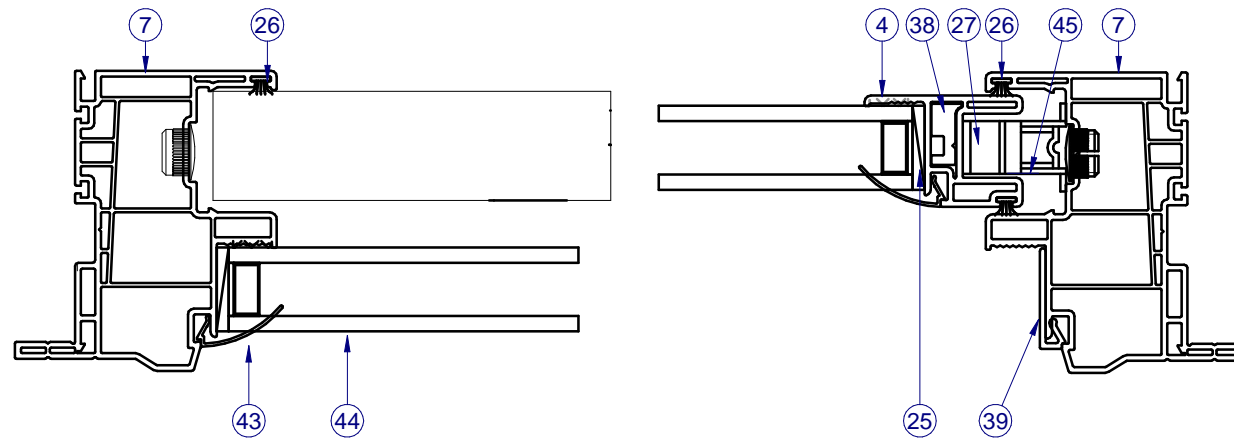
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SHEET DESCRIPTION:

SECTION VIEWS

DRAWN BY: MCS	DATE: 9/19/2023
DWG #: PEL-485	REV.: B
SCALE: 1:2	SHEET 4 OF 7

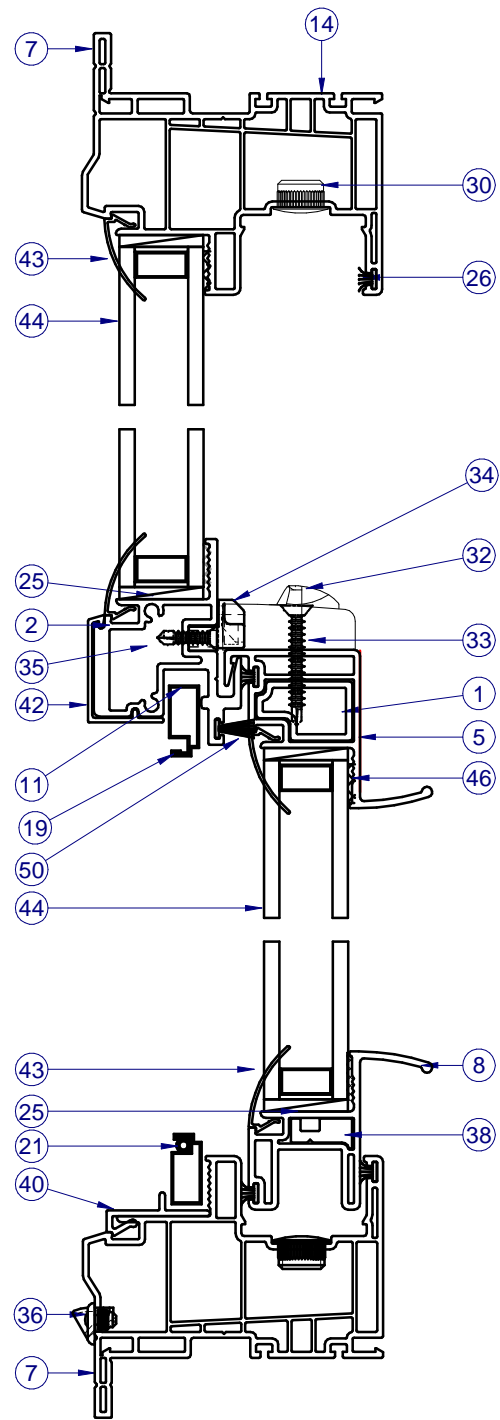
INTERIOR



SECTION VIEW B-B

NOTE: LEFT SIDE SHOWS FIXED SECTION VIEW,
 RIGHT SIDE SHOWS SASH SECTION VIEW.

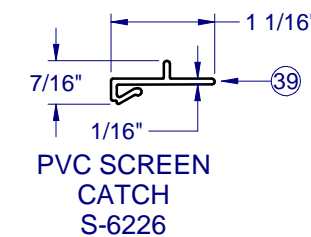
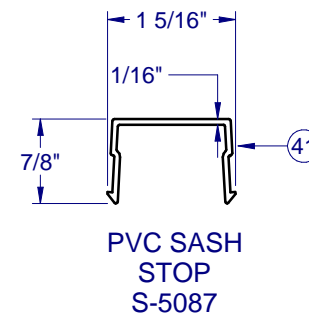
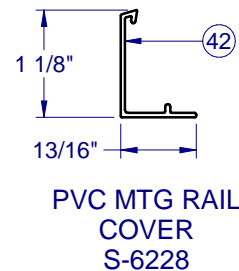
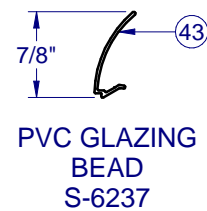
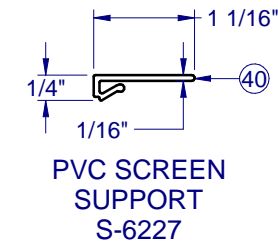
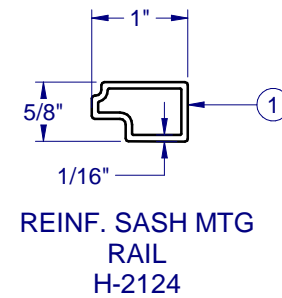
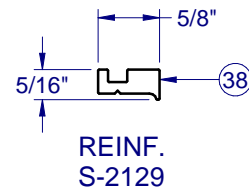
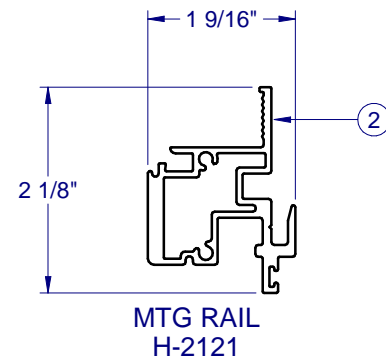
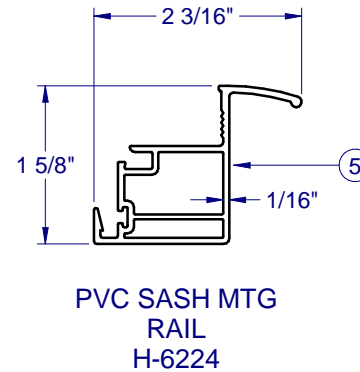
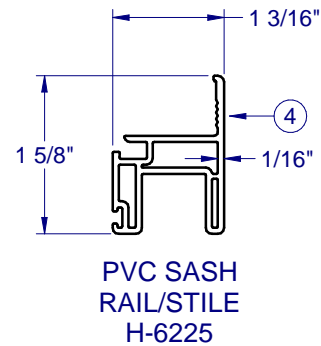
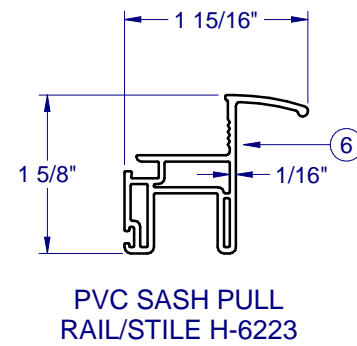
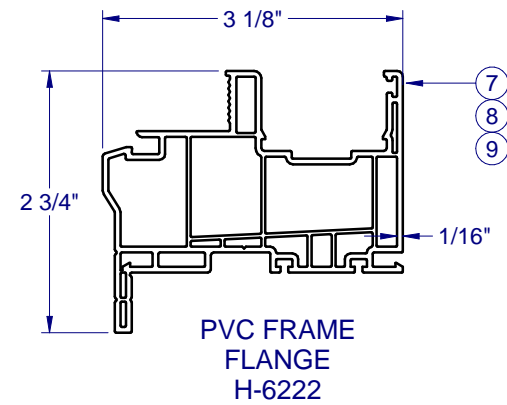
INTERIOR



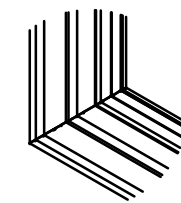
SECTION A-A

NOTE: ITEMS NOT SHOWN FOR CLARITY:
 10,12-13, 15-16, 18, 20, 22-24, 28-29, 31, 37, 41, 47-48

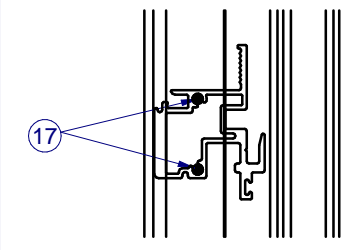
PARTS LIST			
ITEM	PART #	DESCRIPTION	MATERIAL
1	H-2124	Reinforcement for STR	ALUM
2	H-2121	Alum. Fixed Meet. Rail	ALUM
4	H-6225	Sash Side Rail	PVC
5	H-6224	Sash Top Rail	PVC
6	H-6223	Sash Bottom Rail	PVC
7	H-6222	Main Frame, Flg, Single Hung	PVC
10	P-4755	Screen Corner Key W/ Safety Pull Tab	
11	P-3195	SPRING, NO HOLE TENSION	SS
12	P-4056	Sash Cam	PLASTIC
17	P-4638	#8x2 1/2" Ph Modified Truss Type A TEK2	STEEL
19	P-3218	Screen Frame	ALUM
21	P-5576	Screen Spline, .125"	PVC
22	P-3295	Take Out Clip	SS
23	P-4754	Screen Corner Key	PLASTIC
24	P-3342	Seam Sealer	
25	P-5612	Setting Block, .12 x 1 x 2	RUBBER
26	P-3305	Wstp., 0.270 x 0.187 High Density	
27	P-3541	#8 x 1/2", Pan Head, Tek	STEEL
28	P-4770	30" BetterVue Insect Screen, 18 x 16	FIBERGLASS
30	P-5588	Hole Plug	NYLON
32	P-3783	Impact, Lock	
33	P-4051	#8 x 1 1/4" Ph Fh TEK, Wht.	STEEL
34	P-4069	Impact, Keeper	ZAMAC
35	P-3539	#8 x 3/4", Phillips Square, SMS	STEEL
36	P-4479	Weep Cover	PLASTIC
38	S-2129	Reinforcement for SSR,SBR	ALUM
39	S-6226	Screen Adaptor, Sill	PVC
40	S-6227	Screen Adaptor, Jamb	PVC
41	S-5087	PVC Sash Stop	PVC
42	S-6228	Fixed Rail Cover	PVC
43	S-6237	Glazing Bead	PVC
44		Glass (See Sheet 2)	
45		Sash Balance	
46		SikaFlex 552 or Purfect Glaze "H"	
47		#10 x 1 1/2" Panhead SMS	STEEL
50	P-4959	Wstp., 0.420 x 0.187 back	



FRAME CORNER CONSTRUCTION



CORNER WELD (ALL SIDES) 1:8



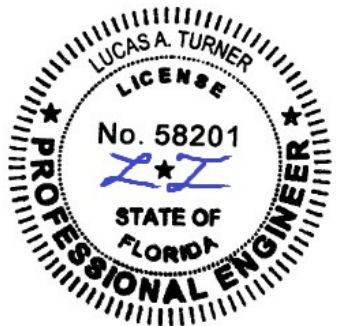
FIXED MEETING RAIL SCREWED TOGETHER WITH OUTERFRAME 1:8



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 PH. 941-380-1574

SHEET DESCRIPTION:

BOM AND EXTRUSIONS

DRAWN BY:	DATE:
MCS	9/19/2023
DWG #:	REV.:
PEL-485	B
SCALE:	SHEET
1:2	5 OF 7

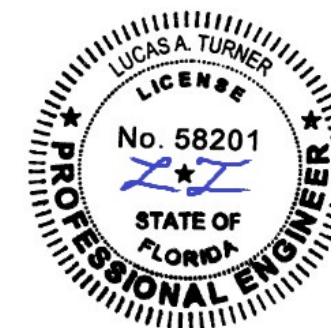
LINE ITEMS NOT USED:
 13, 15-16, 18, 20, 29, 31, 49

NOTE: ALL ALUMINUM EXTRUSIONS ARE 6063-T6 UNLESS OTHERWISE NOTED.

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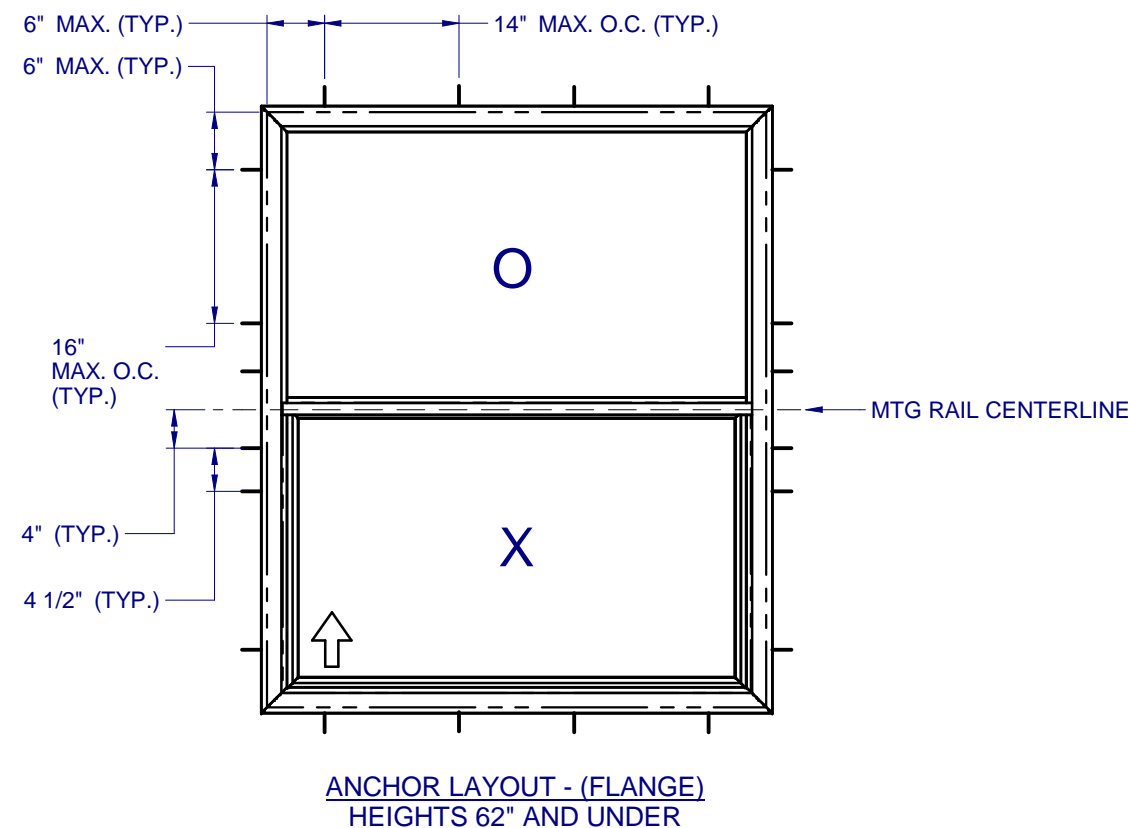
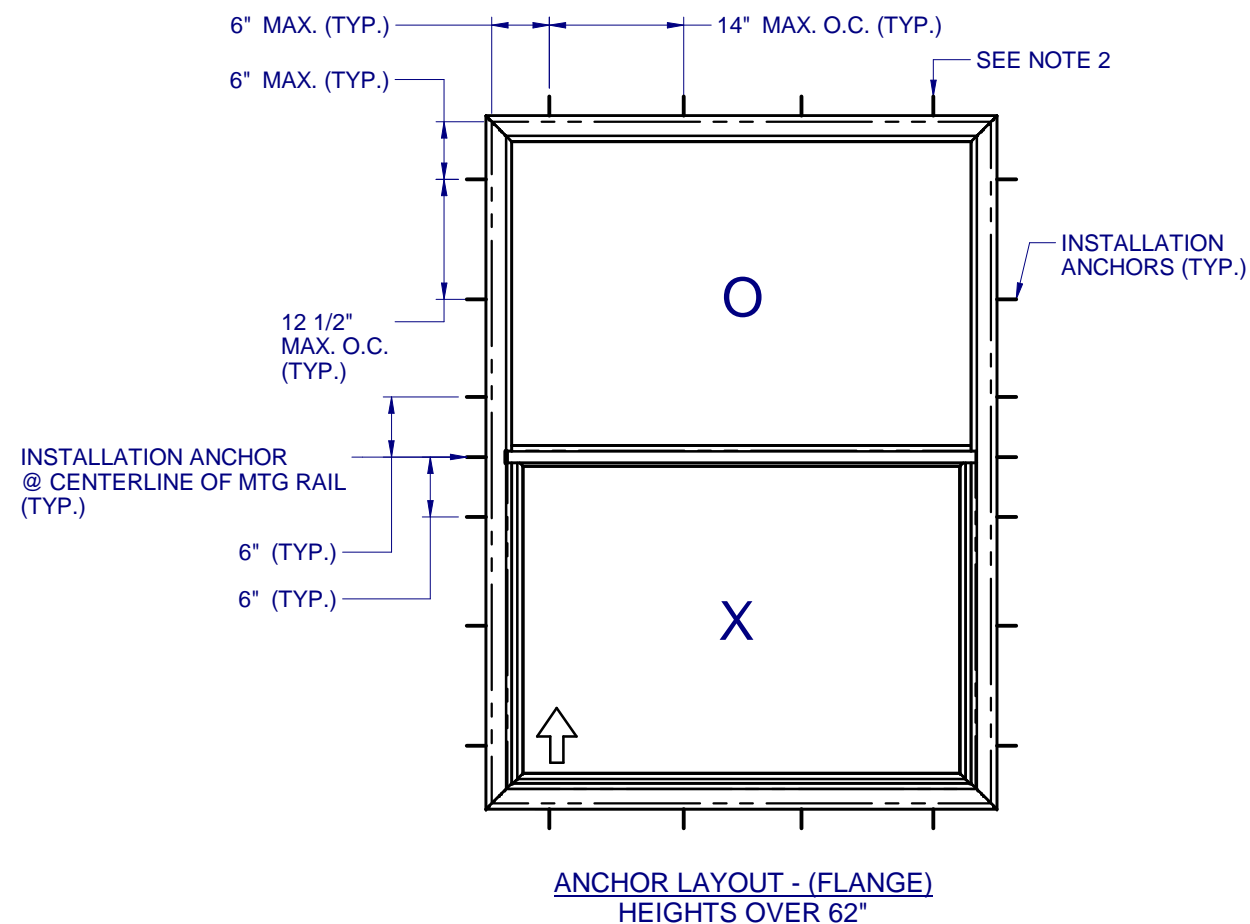


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SHEET DESCRIPTION:
**ANCHOR SCHEDULE AND
 NOTES**

DRAWN BY:	DATE:
MCS	9/19/2023
DWG #:	REV.:
PEL-485	B
SCALE:	SHEET
1:20	6 OF 7



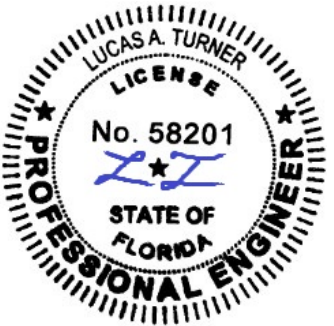
NOTES:

1. INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION. SILL ANCHOR SPACING SAME AS HEAD.
2. SHIM AS REQ AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.
3. ANCHOR TYPE, SIZE, SPACING AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS, SEE TABLE 1, SHEET 7.
4. ALL INSTALLATION ANCHORS MUST BE MADE OF OR PROTECTED WITH A CORROSION RESISTANT MATERIAL OR COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
5. INSTALLATION ANCHORS SHALL BE IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM SPECIFIED IN TABLE 1, SHEET 7.
6. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, INTO SUBSTRATE - 1X BUCKS ARE OPTIONAL.
7. A MINIMUM CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 3" FOR MASONRY, 1" FOR WOOD AND METAL.
8. WOOD OR MASONRY OPENINGS, BUCKS AND BUCK FASTENERS SHALL BE PROPERLY DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD AND INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE 1, SHEET 7. CONCRETE AND MASONRY SUBSTRATES MAY NOT BE CRACKED.
9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS:
 FMA/AAMA 100(FIN WINDOWS), FMA/AAMA 200(FLANGE WINDOWS), FMA/WDMA 250(BOX WINDOWS), FMA/AAMA/WDMA 300(EXTERIOR DOORS)

**510 PVC
 SINGLE HUNG
 NON-IMPACT**

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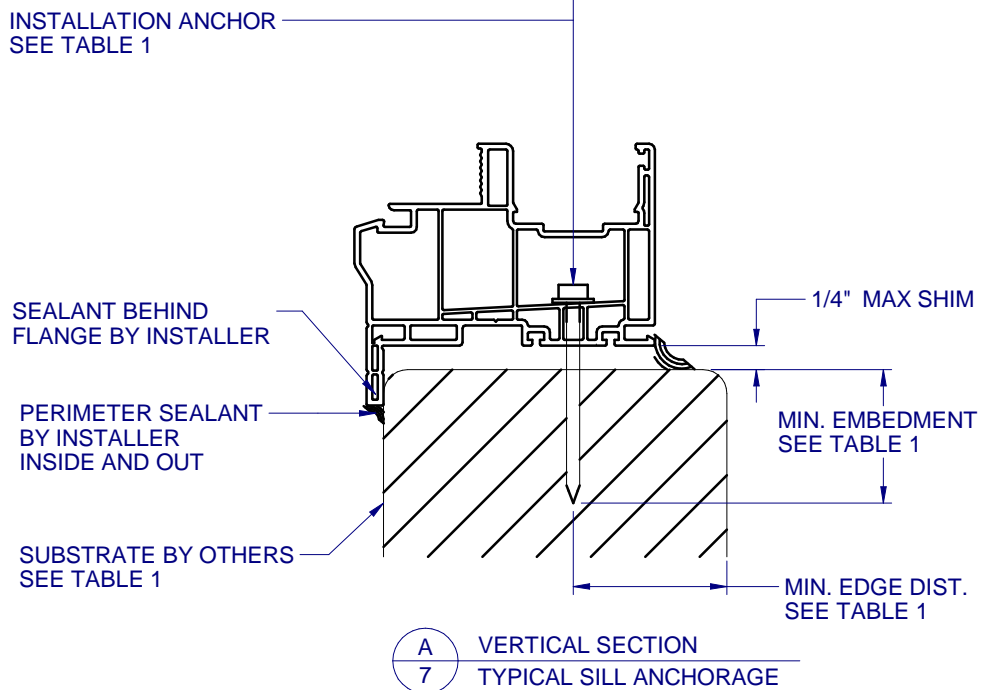
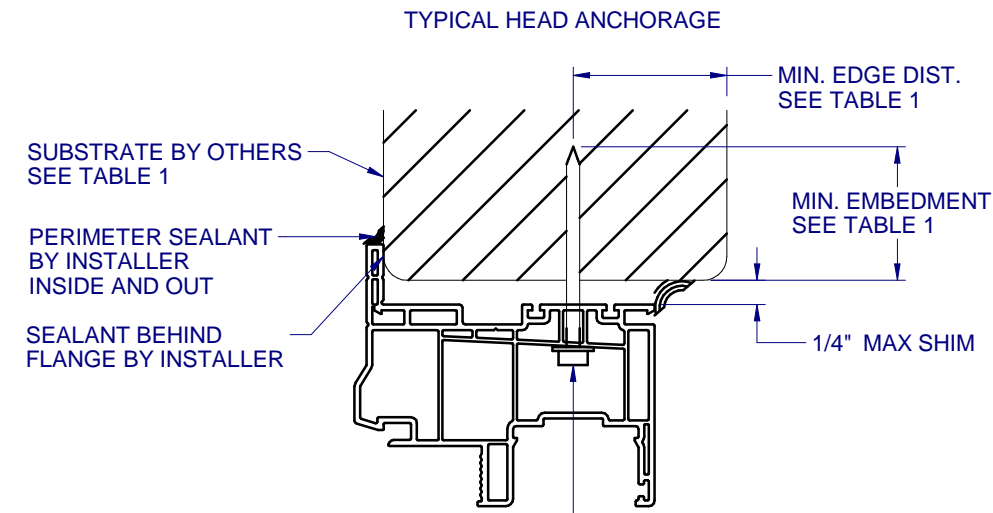
9/26/2023

LUCAS A. TURNER, P.E.
 FL PE # 58201
 Turner Engineering &
 Consulting, Inc.
 2428 Old Natchez Trc Trl
 Camden, TN 38320
 PH. 941-380-1574

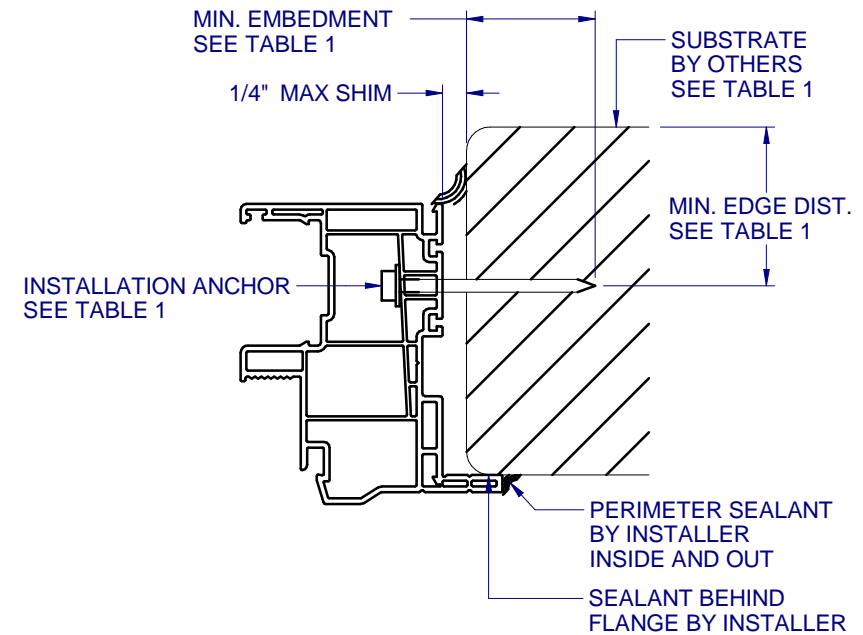
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INSTALLATION DETAILS

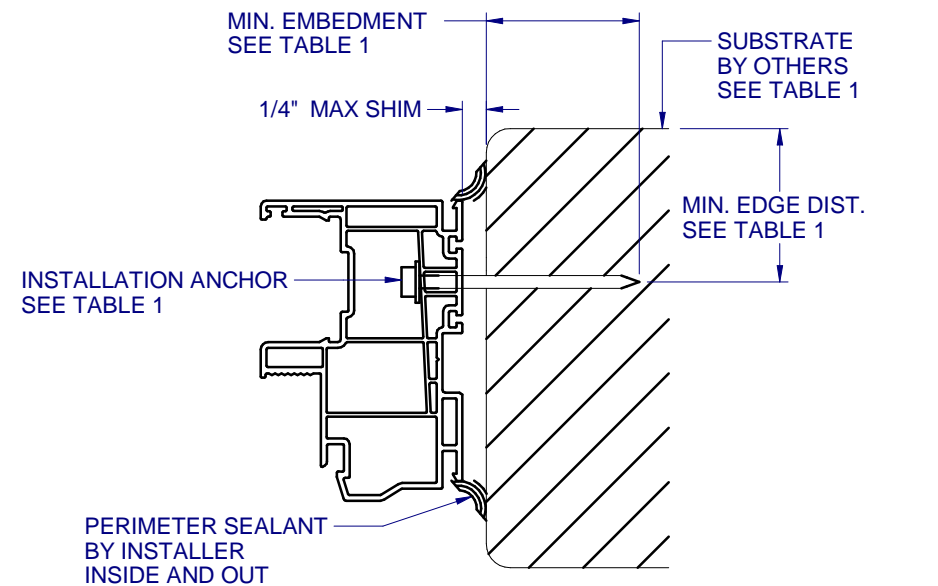
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SCALE:	SHEET
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A
 7
 VERTICAL SECTION
 TYPICAL SILL ANCHORAGE



B
 7
 HORIZONTAL SECTION
 TYPICAL JAMB ANCHORAGE



C
 7
 HORIZONTAL SECTION
 BOX FRAME INSTALLATION
 SIMILAR FOR SILL AND JAMBS FOR BOX INSTALLATION

FLANGE REMOVAL NOTE: PARTIALLY OR FULLY REMOVING THE FLANGE, UP TO AND INCLUDING A BOX-FRAME APPLICATION IS ACCEPTABLE PROVIDED:

- MIN. 1/4" FILLET OF CONSTRUCTION-GRADE ADHESIVE CAULK IS APPLIED INSIDE AND OUT, FULL PERIMETER, BY INSTALLER.
- PRODUCT ANCHORAGE IS IN ACCORDANCE WITH REQUIREMENTS AS SHOWN FOR FLANGE WINDOWS.

TABLE 1: APPROVED INSTALLATION FASTENERS

SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST.
CONCRETE (2.0 KSI MIN.)	3/16" ITW TAPCON	1"	1-1/8"
HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
CONCRETE (3.05 KSI MIN.)	3/16" DEWALT ULTRACON+	1-3/4"	1"
HOLLOW OR GROUT-FILLED CMU (ASTM C-90)	3/16" DEWALT ULTRACON+	1-1/4"	2-1/2"
2X MIN. SOUTHERN PINE (G=0.55)	3/16" ITW TAPCON OR DEWALT ULTRACON+	1-3/8"	7/8"
2X MIN. SOUTHERN PINE (G=0.55)	#10 WOOD SCREW	1-3/8"	7/8"
16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN)	#10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW	FULL THREAD THRU 0.060"	7/16"
1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.)	#10 GRADE 5 SELF-TAPPING / DRILLING SCREW	FULL THREAD THRU 0.125"	7/16"