

GENERAL NOTES

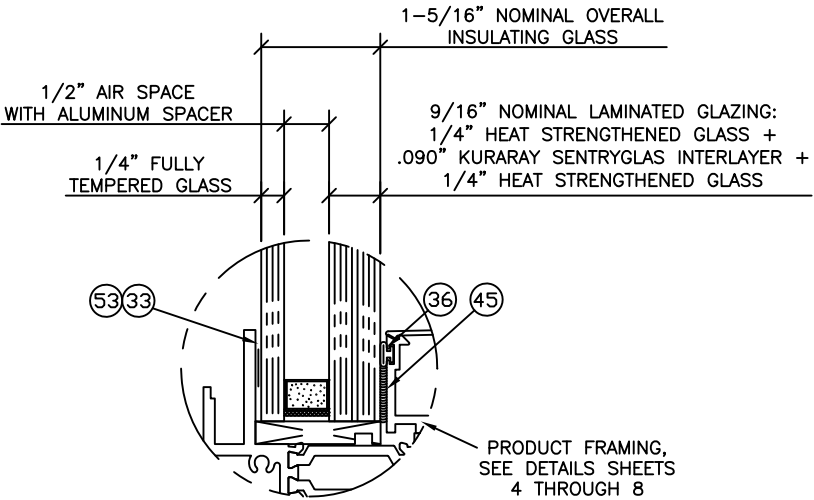
1. THIS PRODUCT, FABRICATED AND ANCHORED AS DETAILED IN THIS DRAWING, IS LARGE AND SMALL MISSILE IMPACT RESISTANT, AND DOES NOT REQUIRE THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS).
2. THIS PRODUCT HAS BEEN TESTED TO ASTM E 283, ASTM E 330, ASTM E 331, ASTM E 547, ASTM E 1886, AND ASTM E 1996, AND MEETS THE REQUIREMENTS OF THE 8TH ED. (2023) FLORIDA BUILDING CODE NOT INCLUDING THE HIGH VELOCITY HURRICANE ZONE.
3. THE MULLED ASSEMBLY CONFIGURATION MAY BE INSTALLED IN UNLIMITED WIDTHS WITH ANY COMBINATION OF FIXED, CASEMENT, OR FIXED OVER PROJECT-OUT UNITS, PROVIDED THAT THE INDIVIDUAL PRODUCT SIZES, OVERALL HEIGHT, AND GLAZING SIZES AS INDICATED IN THE SAMPLE ELEVATION ON SHEETS 2 AND 3 ARE NOT EXCEEDED.
4. THE DESIGN PRESSURE RATINGS IN THIS DRAWING ARE AS LIMITED BY ASTM E-1300 GLASS TABLES, AND TESTED STRUCTURAL AND CYCLIC PRESSURES.
5. THE 4/3 ALLOWABLE STRESS INCREASE FACTOR (SHORT-TERM INCREASE FACTOR) HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF ANCHORAGE INTO WOOD SUBSTRATE.
6. 1X WOOD BUCKS ARE OPTIONAL, AND IF USED, INSTALLATION OF WOOD BUCKS TO THE SUBSTRATE TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (A.H.J.). BUCKING, OPENINGS, & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED BY OTHERS IN ACCORDANCE WITH THE FBC TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. ADEQUACY OF THE STRUCTURE TO RECEIVE THESE LOADS SHALL BE VERIFIED BY THE CONTRACTOR OR A.H.J. ANCHOR EMBEDMENT SHALL BE FULLY INTO THE SUBSTRATE BEYOND THE WOOD BUCKS.
7. ANCHORAGE NOTES: ALL ANCHORS USED SHALL BE OF A MATERIAL OR HAVE A COATING COMPATIBLE WITH PRESSURE TREATED WOOD BUCKS AND ALL OTHER WINDOW MATERIALS. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING LOADS TO THE SUBSTRATE. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO. ON-CENTER DISTANCE BETWEEN ANY TWO INSTALLATION FASTENERS OF 2" MINIMUM SHALL BE MAINTAINED.
8. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED TO PREVENT GALVANIC REACTIONS. WOOD BUCKS, IF USED, SHALL BE PRESSURE TREATED, WITH EITHER A TREATMENT OR COATING COMPATIBLE WITH THIS PRODUCT.
9. ALL INSTALLATIONS & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, OR AS APPROVED, SIGNED, AND SEALED BY A FLORIDA-REGISTERED PROFESSIONAL ENGINEER ON A SITE-SPECIFIC BASIS.
10. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS AND ARE NOT ADDRESSED BY THIS DOCUMENT.

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DESIGN PRESSURE TABLE

CONFIGURATION	MAX. D.L.O.	ALLOWABLE DESIGN PRESSURE	IMPACT RATING
MULLED ASSEMBLY	CASEMENT: 37-3/8" X 67-7/16" FIXED OVER PROJECT-OUT: FIXED - 39-7/8" X 33-7/8" VENT - 37-3/4" X 30-15/16" FIXED: 40" X 69-7/8"	+/-90 PSF	LARGE MISSILE IMPACT ASTM E 1996 WIND ZONE 4
FIXED OVER PROJECT OUT	FIXED - 58-7/8" X 61" VENT - 56-1/2" X 27-1/2"	+/-90 PSF	
PROJECT OUT	56-1/2" X 34-7/16"	+/-100 PSF	



TYP. GLAZING DETAIL



Lucas Turner
2023.10.12
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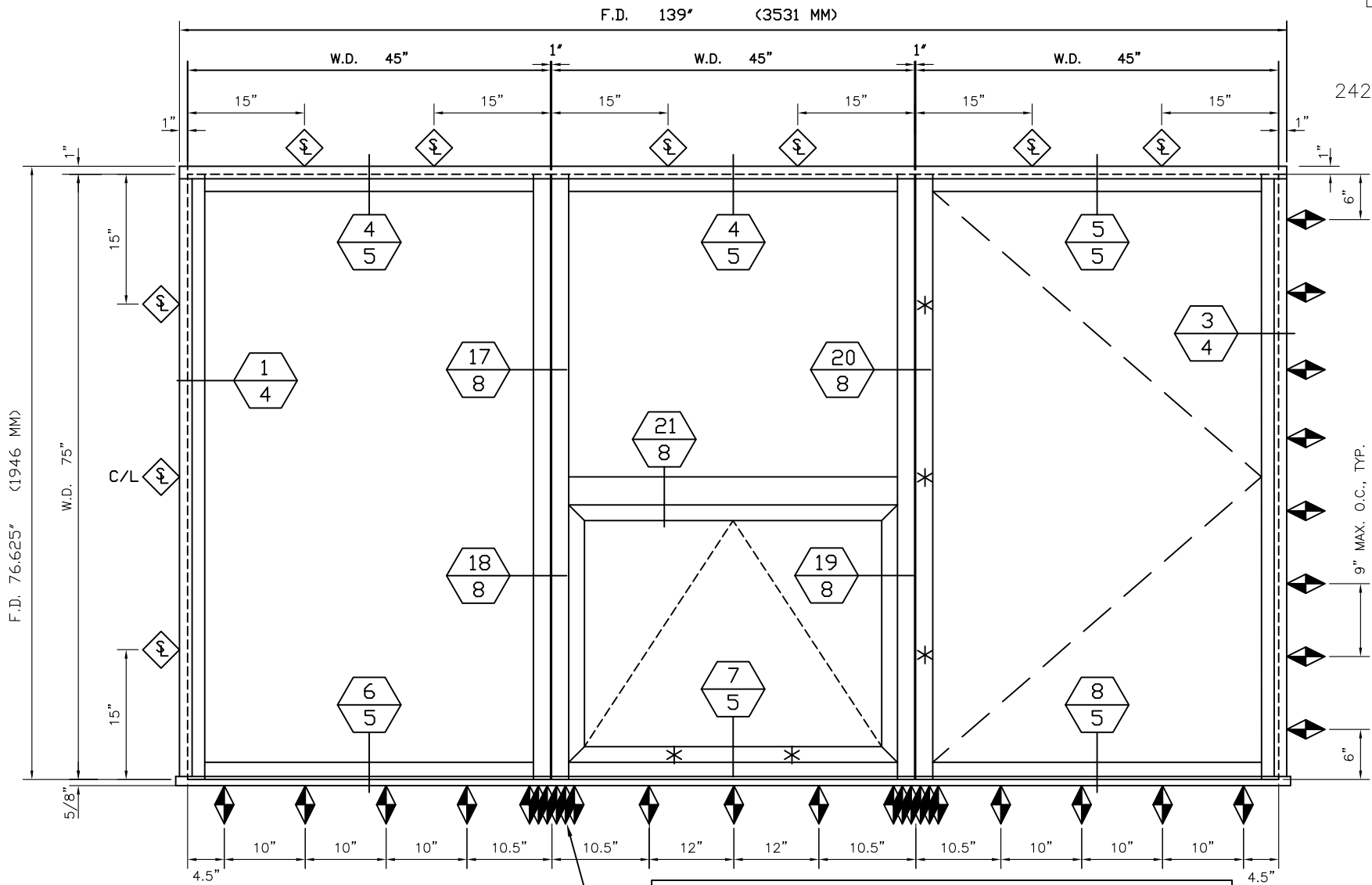
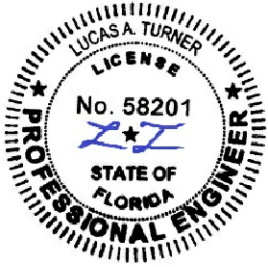
10/11/2023
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING
& CONSULTING, INC.
2428 OLD NATCHEZ TRC TRL
CAMDEN, TN 38320
PH. 941-380-1574

ITEM	PART #	DESCRIPTION	MFG.
1	4T74	FIXED HEAD/SILL/JAMB	EF
2	2B44	PD FRAME	EF
3	4T78	PD VENT	EF
4	4T77	MEETING RAIL	EF
5	2B34	FIX/PO FRAME	EF
6	1303	MULLION	EF
7	EP28	MULLION COVER	EF
8	EP27	CONTINUOUS MULLION CLIP	EF
9	26B7	GLAZING RETAINER	EF
10	26B9	GLAZING RETAINER COVER	EF
11	FE19	INT. CORNER KEY 24B3 @ .384"	EF
12	FE18	EXT. CORNER KEY 24B3 @ .656"	EF
13	16X4	SUBFRAME	EF
14	16X5	CLOSURE	EF
15	4S64	SILL STARTER	EF
16	KA20	MULL ANCHOR	EF
17	20F6	GLAZING ADAPTOR	EF
18	EF26	FRAME ADAPTOR	EF
19	----	OPTIONAL GRID	EF
20	HU16	CAM HANDLE	BRONZE CRAFT
21	HU15	CAM HANDLE	BRONZE CRAFT
22	MFH6	#10-24 X 3/8 PL-FH-MS 18-8	PRO FAS
23	HK10	STRIKE	BRONZE CRAFT
24			
25	LA15	4-BAR ARM	ADVANTAGE MFG.
26	STT5	#10-16 X 3/8 PL-TH-SMS 18-8	PRO FAS
27	HF14	FRICTION ADJUSTER	ADVANTAGE MFG.
28	HA57	BUTT HINGE	ADVANTAGE MFG.
29	MPD2	1/4"-20 X 1/2 PL-RH-MS 18-8	PRO FAS
30	MF3	#10-24 X 3/8 PL-PH-MS 18-8	PRO FAS
31	HB32	LIFT BLOCK	BARTON PRODUCTS
32	SPZ1	#8-15 X 3/4 PL-PH-SMS 18-8	PRO FAS
33	JJ67	WET GLAZE SEALANT	SIKASIL
34	HN40	EDGE BLOCKS	EPG
35	HN41	SILL BLOCKS	CENTRAL PLASTICS
36	WA04	BULB VINYL	CENTRAL PLASTICS
37	WAB2	THERMAL STRUT	TECHNOFORM
38	STK2	#10-16 X 1 PL-PH-SMS 18-8	PRO FAS
39	WNA3	DRIVE-IN GASKET	CENTRAL PLASTICS
40	----	SILICONE SEALANT	----
41	STT6	#8-18 X 9/16 PL-PH-SMS	PRO FAS
42	FD25	.062 ALUM. END DAM	EF
43	H071	END DAM GASKET	RED RUBBER
44	STC6	#6-18 X 3/8 PL-TH-SMS 18-8 A	PRO FAS
45	JJ61	SILICONE SEALANT	SIKASIL
46	STK0	#8-16 X 1 PL-PH-SMS TEK	PRO FAS
47	SPC8	#12-11 X 3/4 PL-PH-SMS 18-8 A	PRO FAS
48	STK3	#12-14 X 3/4 HW- -SMS	PRO FAS
49	WVB4	GASKET	EPG
50	16X6	FRAME SUPPORT @ HEAD/JAMB	EF
51	RAA2	STAINLESS STEEL RIVET	
52	----	2 PART POLYURETHANE	----
53	WM92	GLAZING DAM TAPE	RED RUBBER
54	----	INSTALL ANCHOR, SEE TABLE 1, SHEET 4	
55	SDR4	#12-14 X 2 1/2 HW-SMS ZC A	PRO FAS
56	STC7	#6-18 X 3/8	PRO FAS
57	SG-15	SILICONE SEALANT	SIKASIL
58	STT5	#10-16 X 3/8 PL-TH-SMS 18-8	PRO FAS
59	KA24	F-ANCHOR 1880 @ 2"	EF
60	----	SUBSTRATE BY OTHERS, SEE TBL 1, SHT 4	

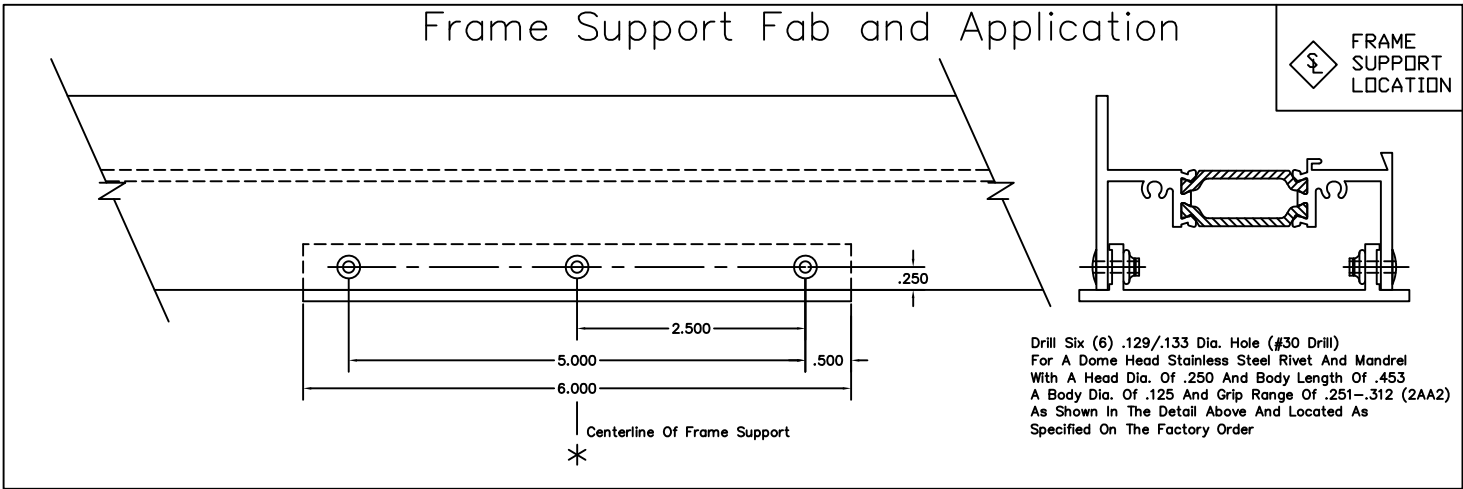
DRAWN BY	TKEE/LAT	SCALE	REV.	 EFCO CORPORATION 1000 County Road - Monett, Missouri 65708	321G WZ4 LEVEL D IMPACT	DWG#	SHEET
DATE	6-10-2021	NTS				321G-LM-FPA	1 of 8

SUBFRAME INSTALLATION

10/11/2023
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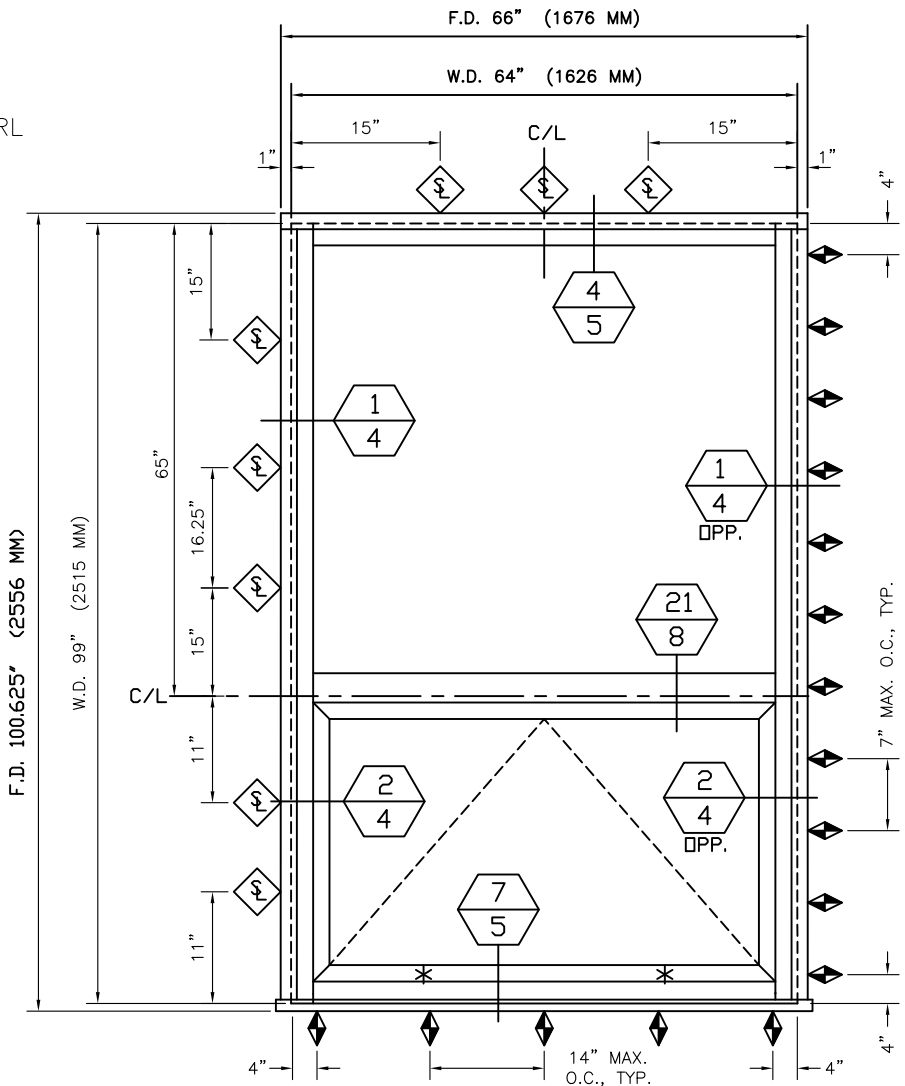
SAMPLE ELEVATION - MULLED ASSEMBLY



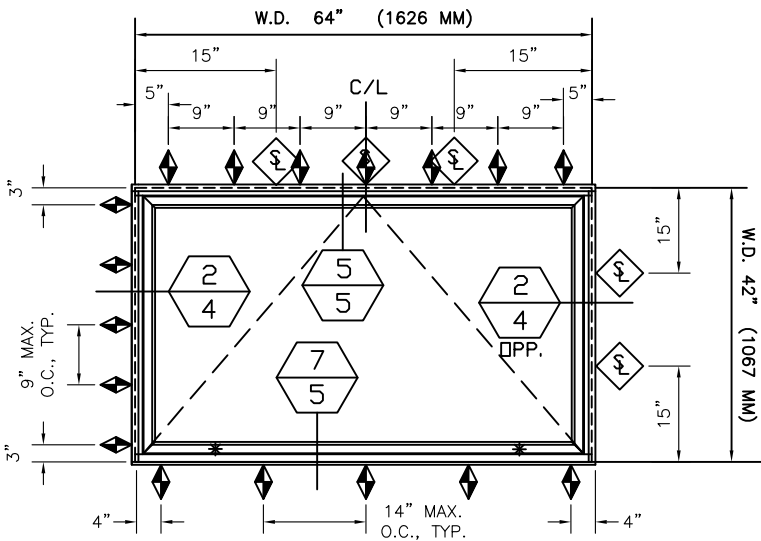
* DENOTES LOCK LOCATION

◆ DENOTES THROUGH-SUBFRAME INSTALLATION ANCHOR LOCATION, ONE ANCHOR PER LOC., SEE TABLE 1, SHEET 4

NOTE: ANCHOR SPACING AND SUPPORT LOCATIONS ARE THE SAME ON BOTH JAMBS AND THE SAME ON HEAD/SILL UNLESS OTHERWISE SHOWN.

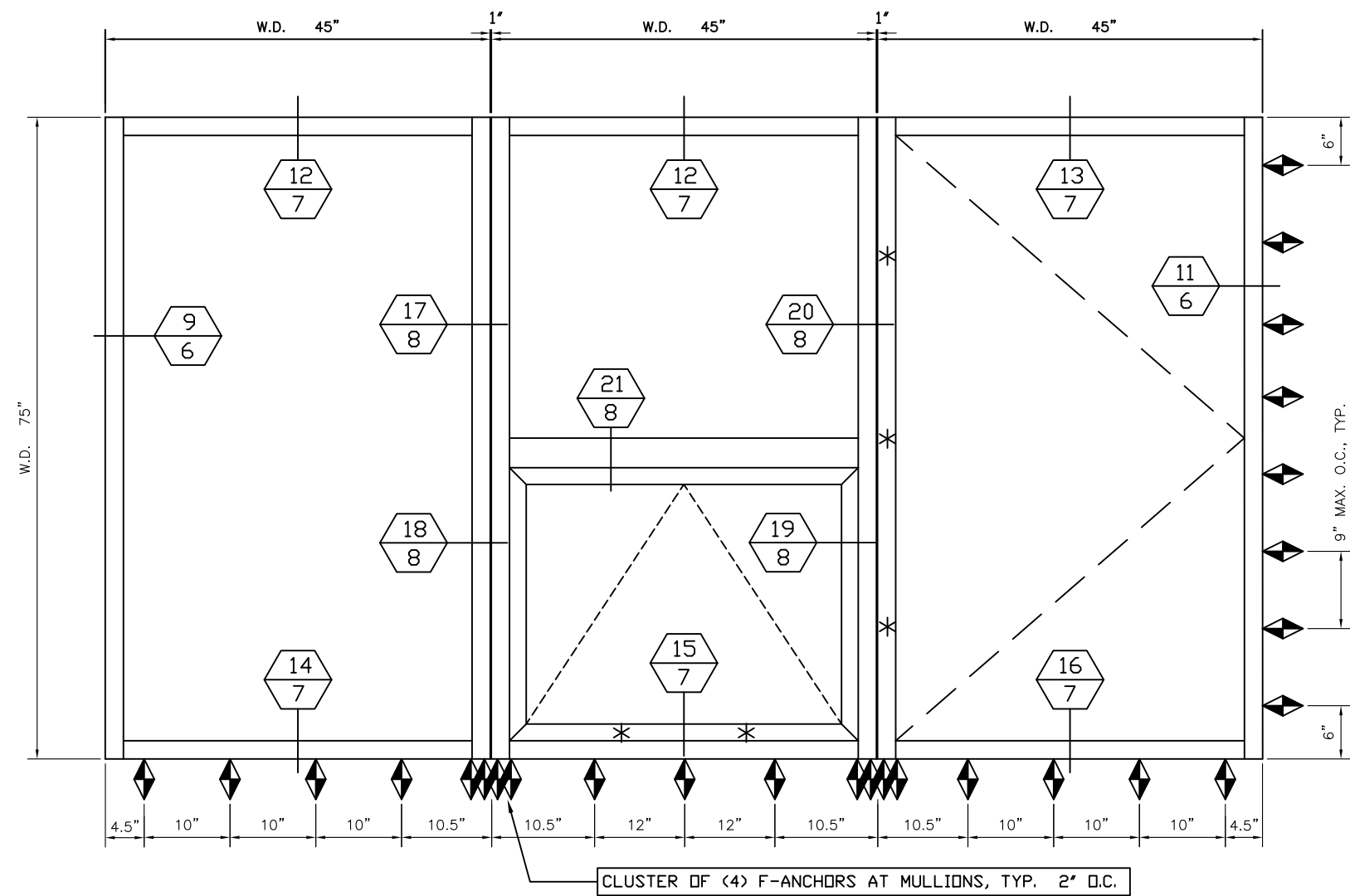


ELEVATION - FIXED OVER PROJECT-OUT

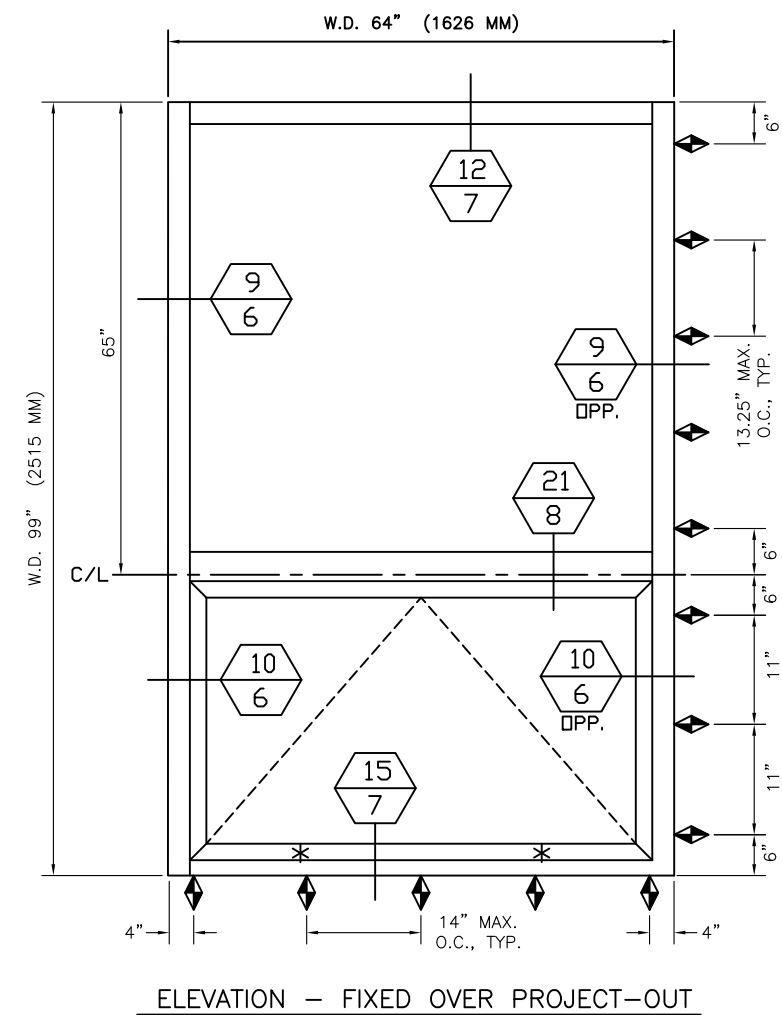


ELEVATION - PROJECT-OUT

F-ANCHOR INSTALLATION

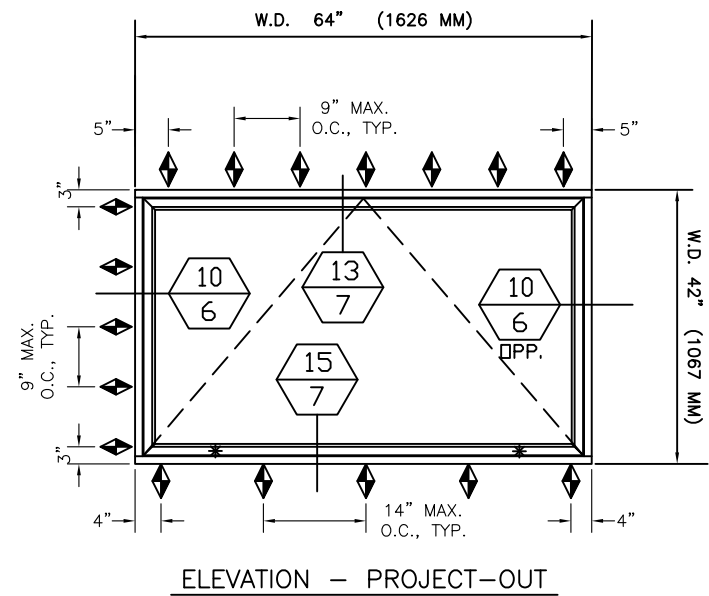


SAMPLE ELEVATION - MULLED ASSEMBLY



ELEVATION - FIXED OVER PROJECT-OUT

- * DENOTES LOCK LOCATION
- ◆ DENOTES F-ANCHOR LOCATION (TO CENTER OF F-ANCHOR). TWO INSTALLATION ANCHORS PER F-ANCHOR, SEE TABLE 1, SHEET 4
- NOTE: ANCHOR SPACING IS THE SAME ON BOTH JAMBS, AND THE SAME ON HEAD/SILL UNLESS OTHERWISE SHOWN.



ELEVATION - PROJECT-OUT

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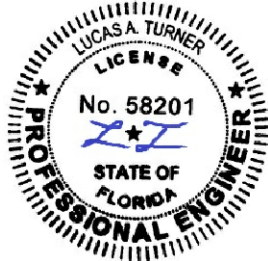
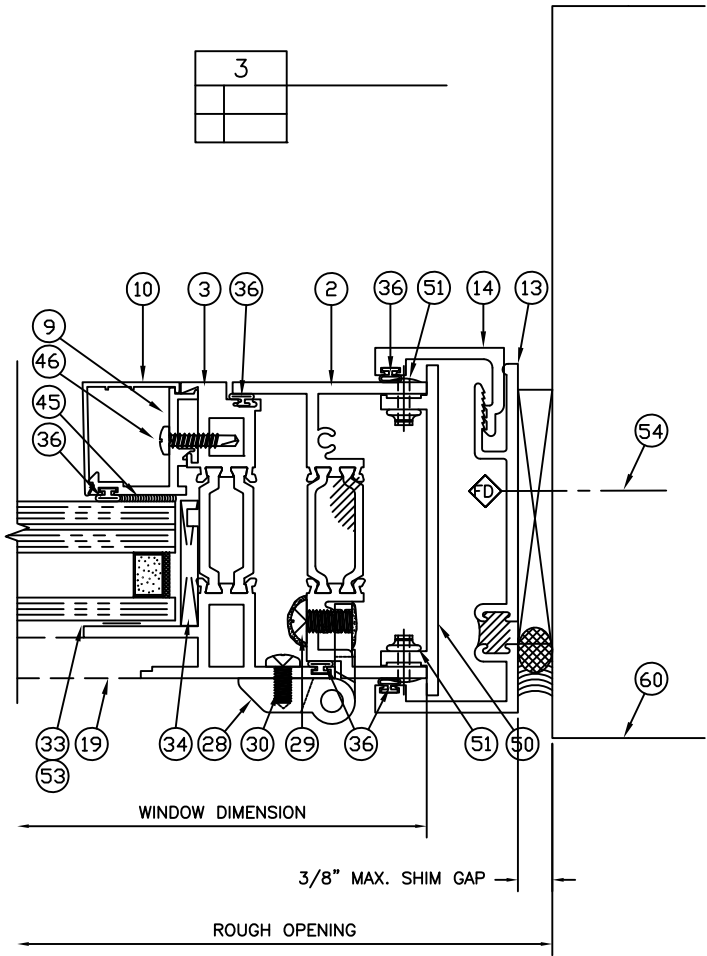
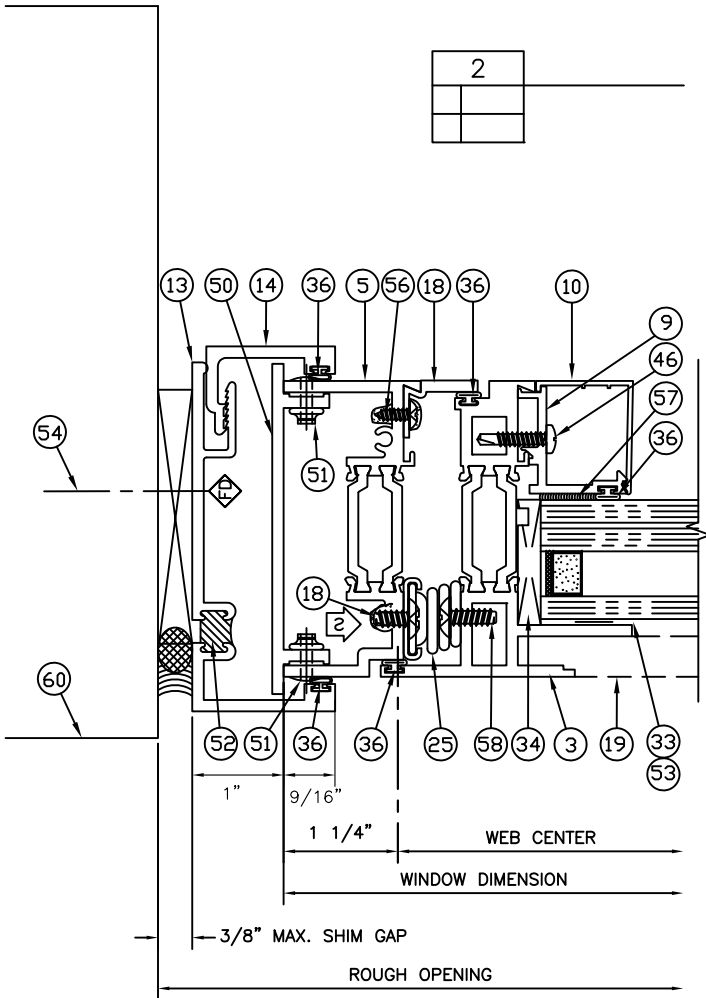
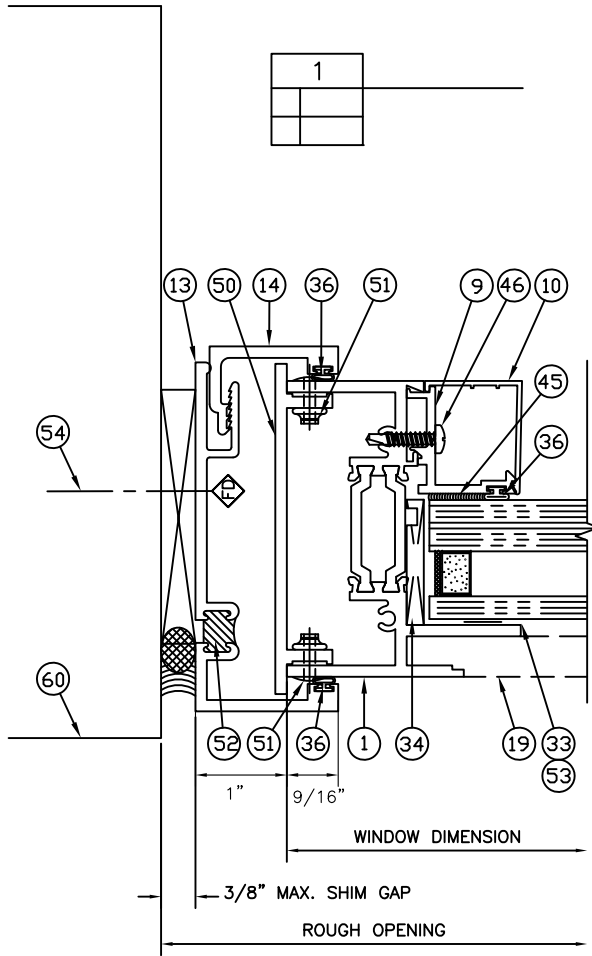


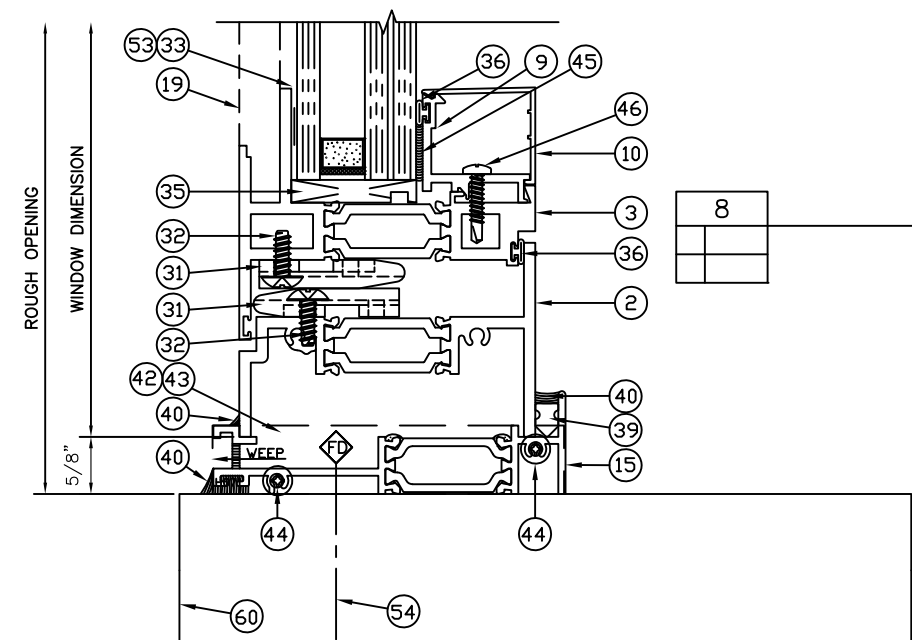
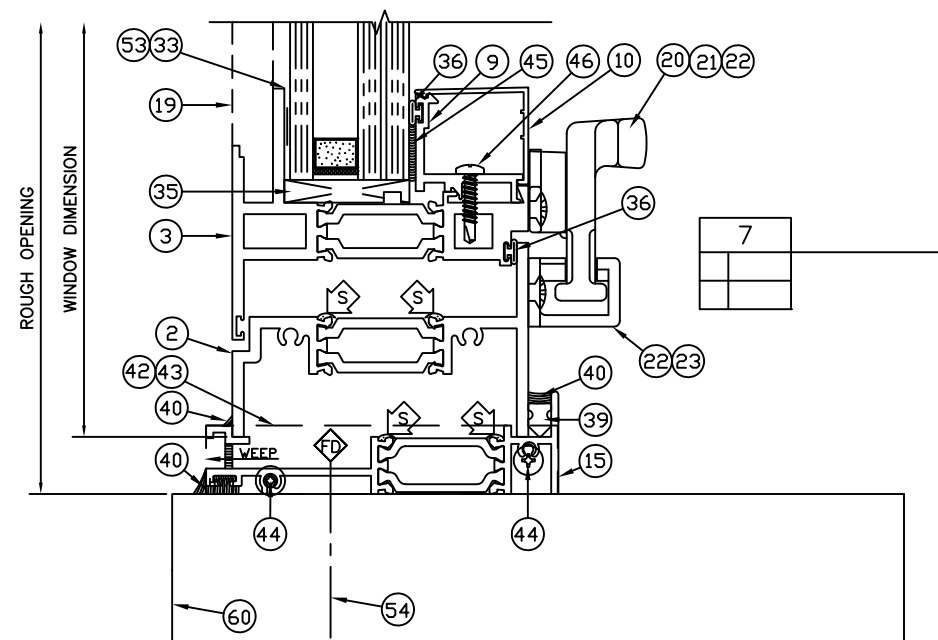
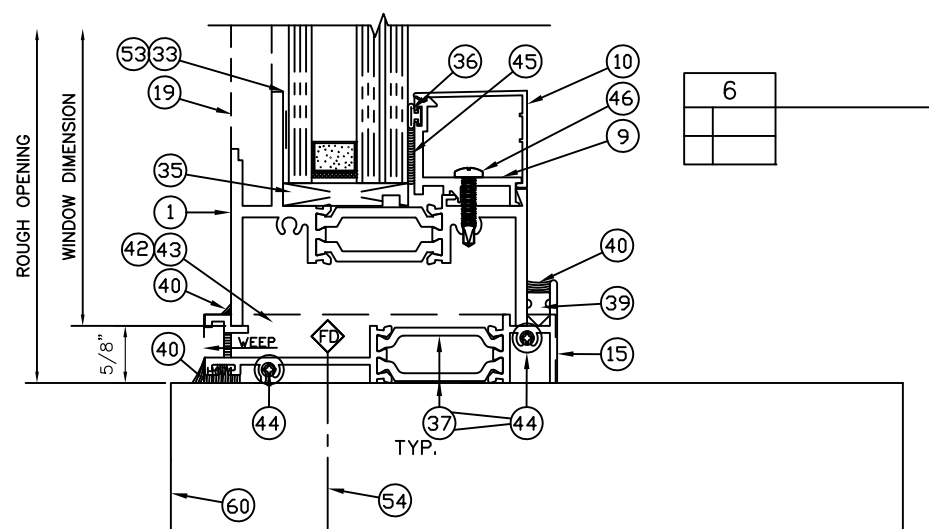
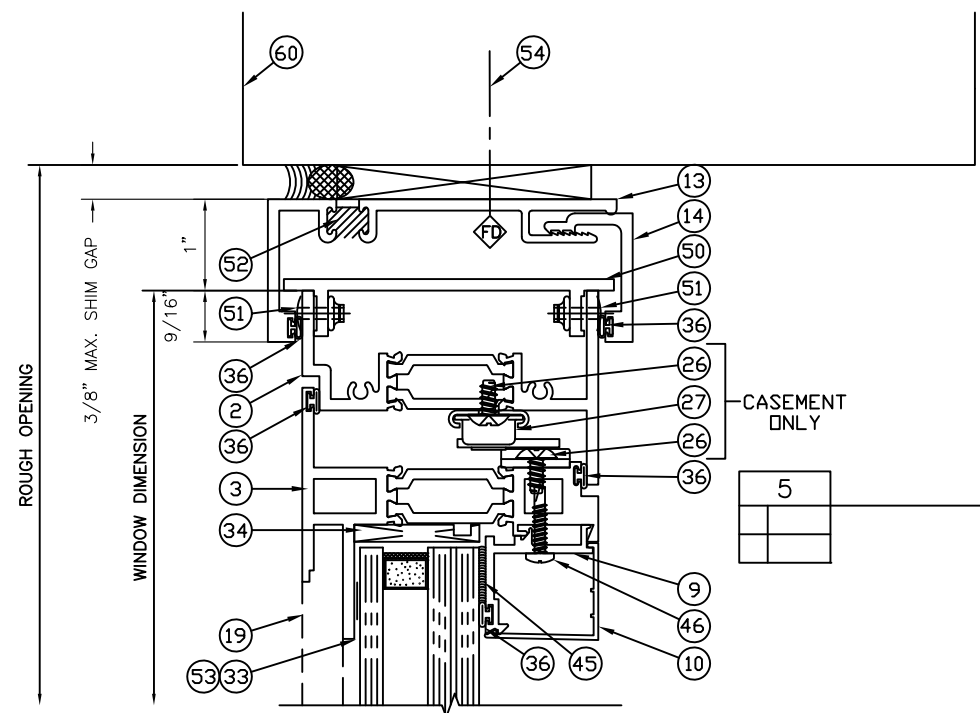
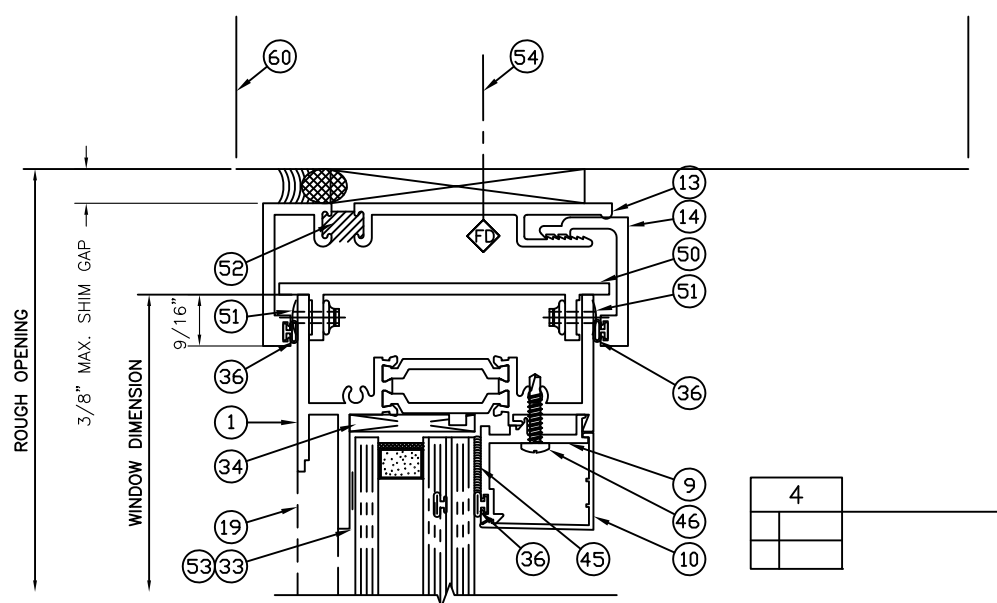
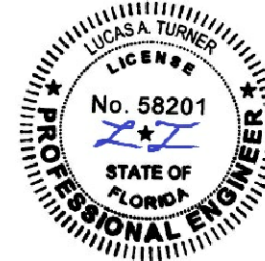
TABLE 1: INSTALLATION ANCHOR REQUIREMENTS TABLE			
SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DIST.
CONCRETE (3.05 KSI MIN.)	1/4" DEWALT ULTRACON+	1-3/4"	2-1/2"
JAMBS ONLY: CMU MASONRY (ASTM C-90)	1/4" DEWALT ULTRACON+	1-1/4"	2-1/2"
2X MIN. SOUTHERN PINE WOOD (G=0.55)	#14 GRADE 5 WOOD SCREW	1-1/2"	1"
16 GAUGE (0.060") MIN. STEEL STUD, 33KSI YIELD MIN., OR 1/8" ALUM. 6063-T5 MIN.	1/4" HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW	FULL, PLUS 3 THREADS BEYOND	1/2"



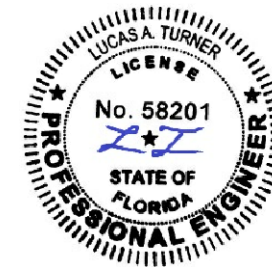
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10/11/2023
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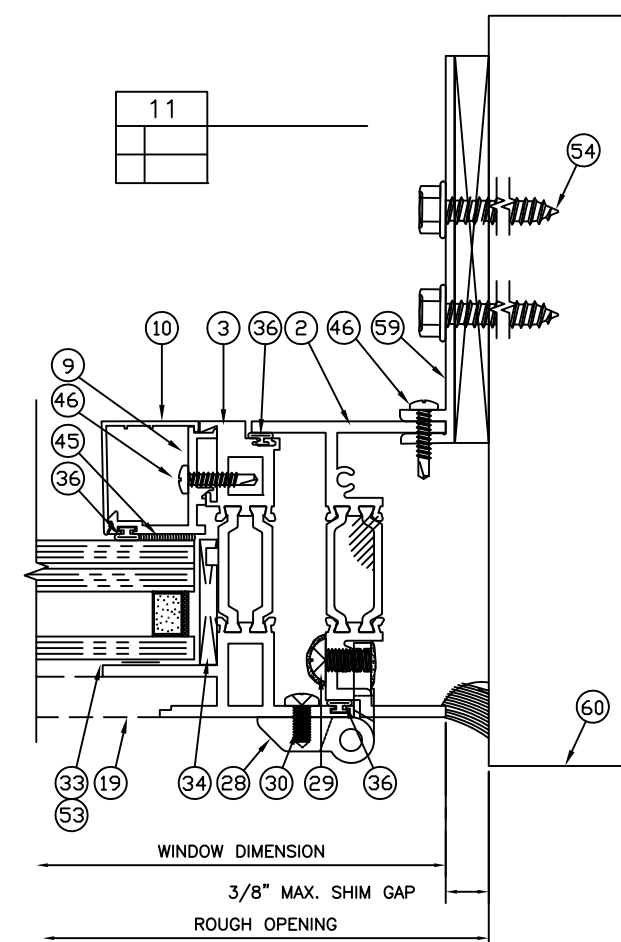
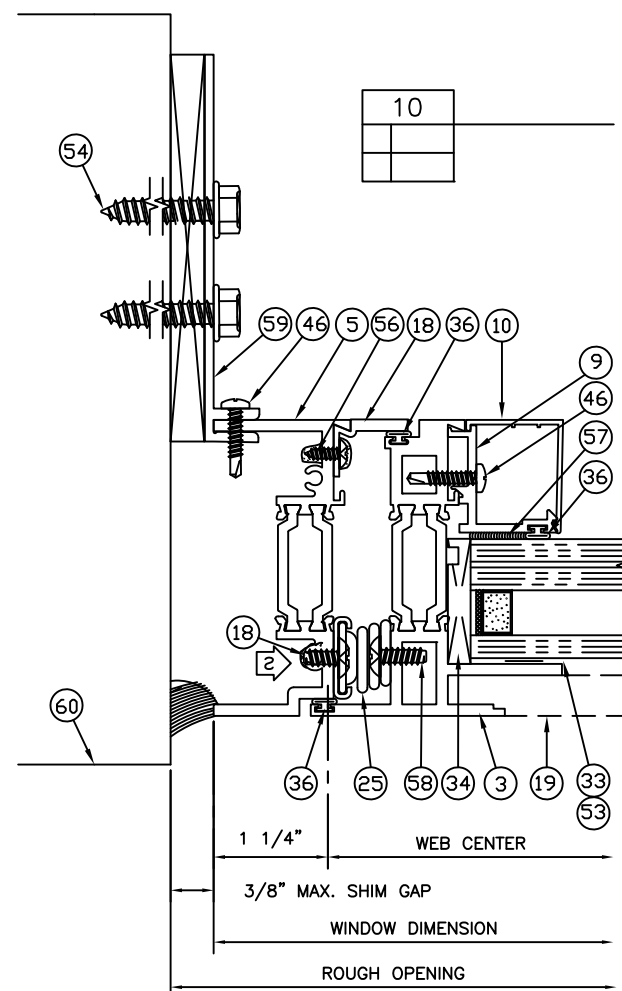
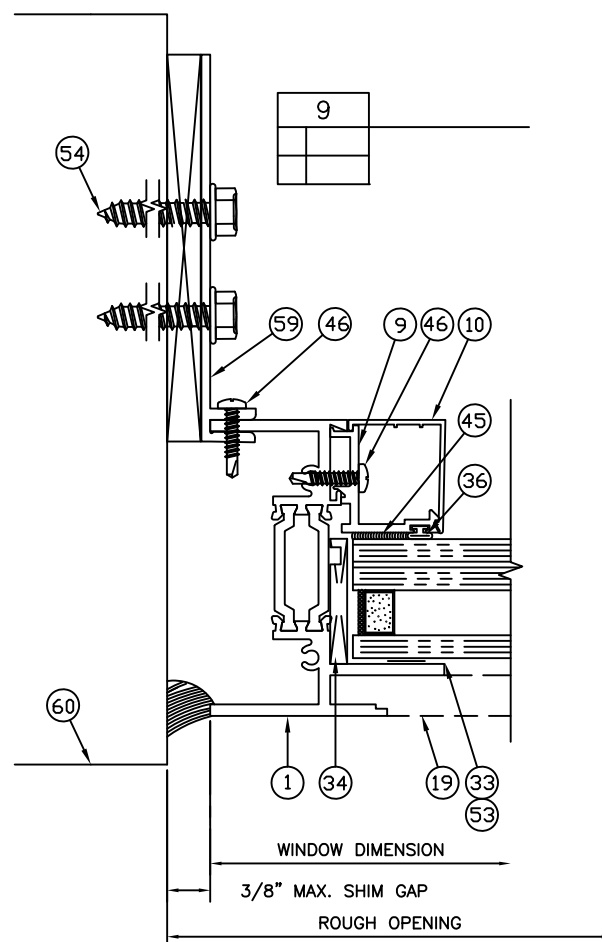


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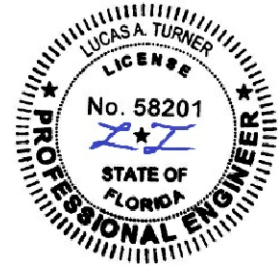
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NOTE: TWO INSTALLATION FASTENERS REQUIRED PER F-ANCHOR. LOCATE FASTENERS TO ENSURE 2" MIN. ON-CENTER SEPARATION BETWEEN FASTENERS, AND 3/8" MIN. EDGE DISTANCE FROM CENTER OF FASTENER TO EDGE OF F-ANCHOR

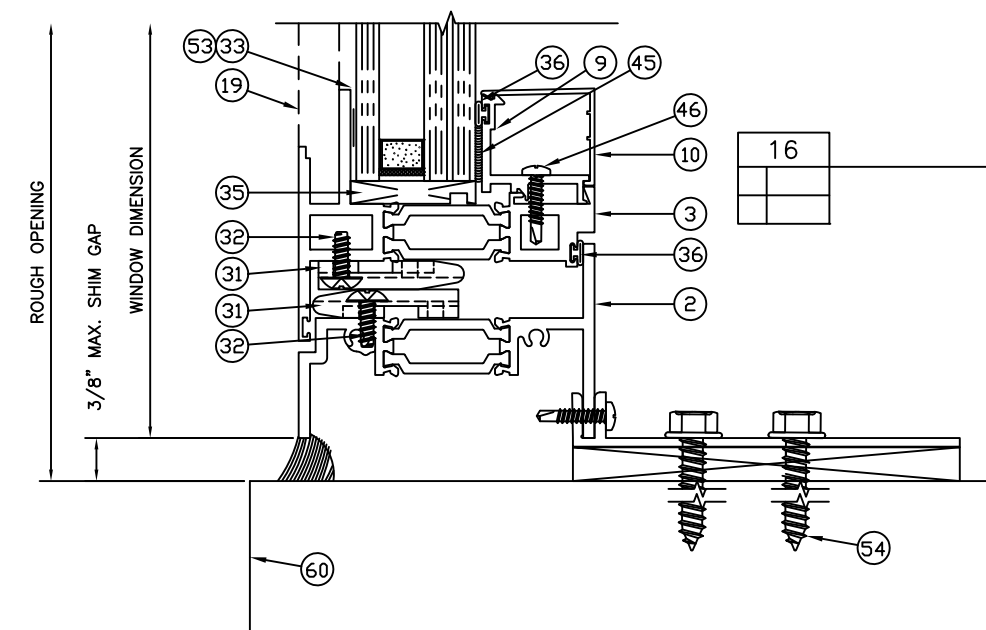
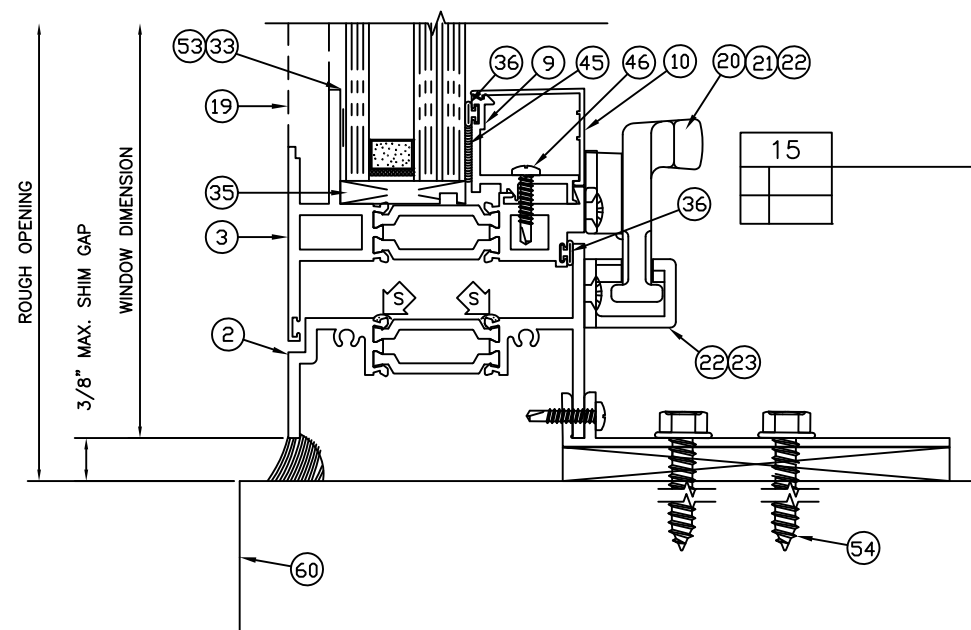
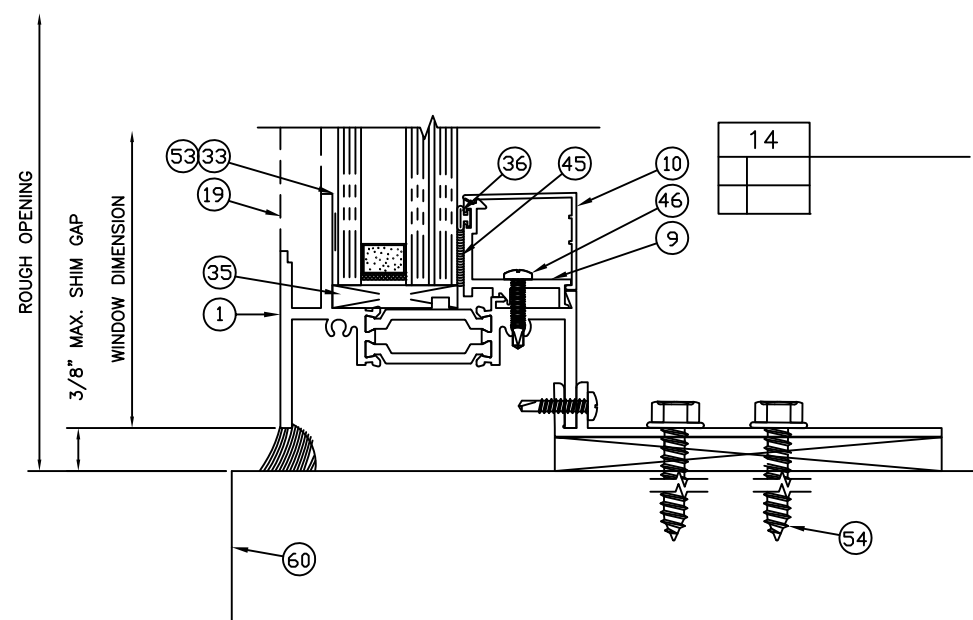
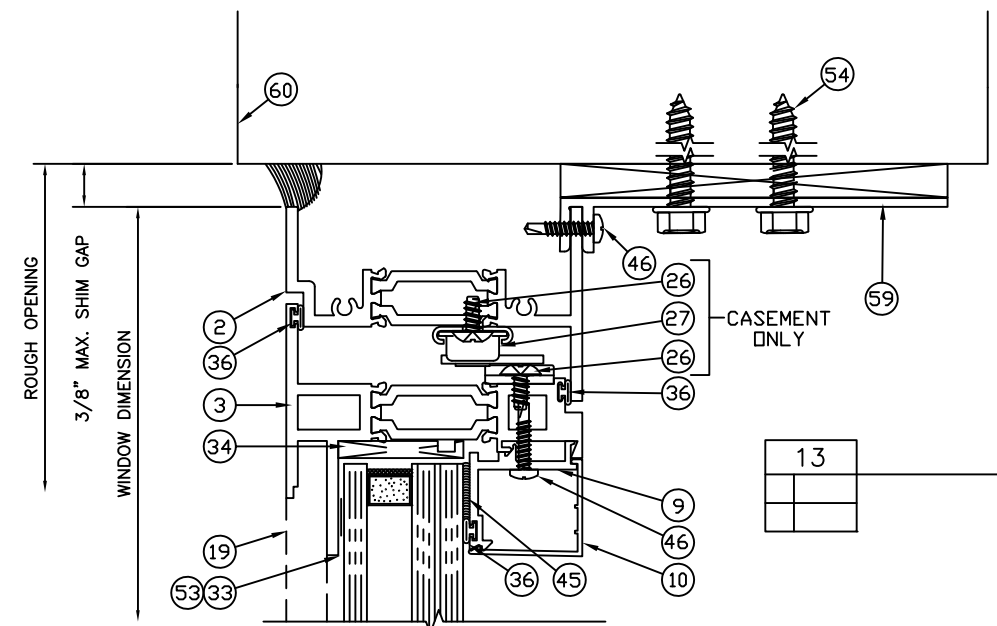
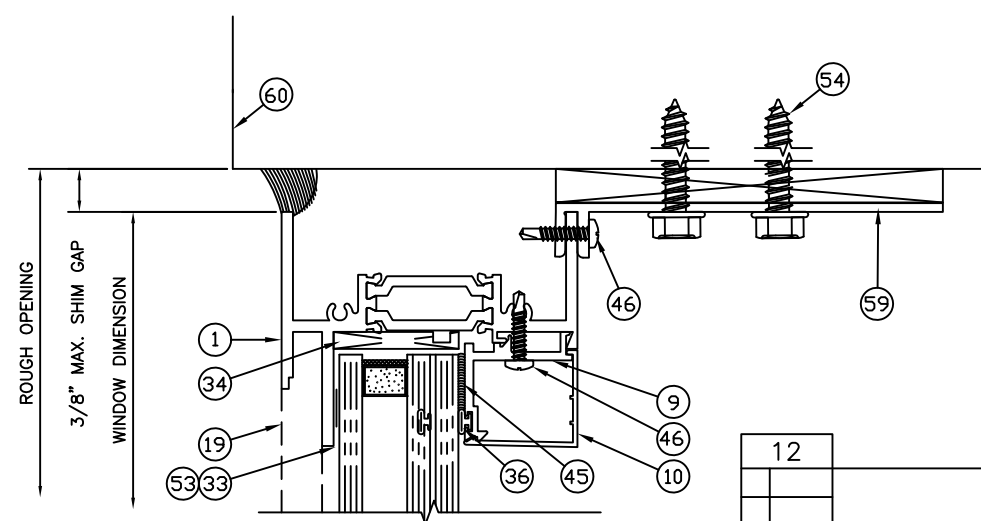


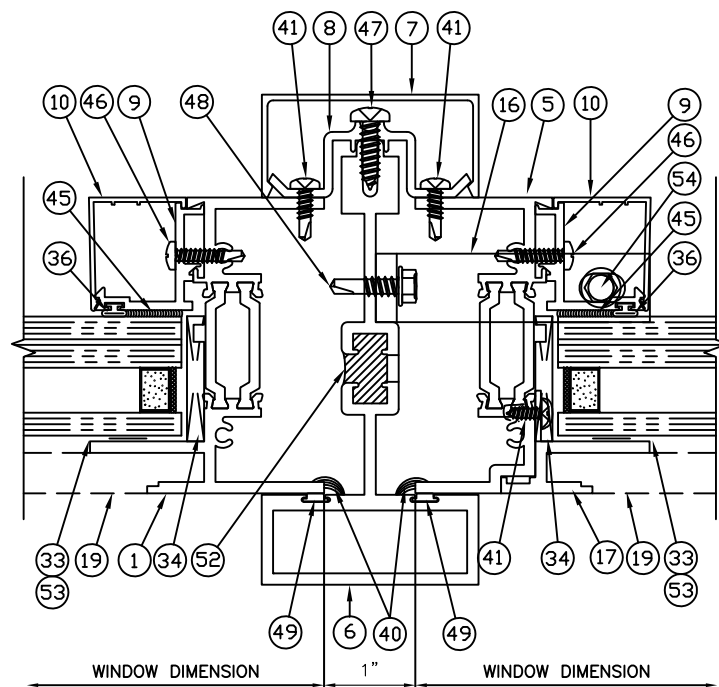
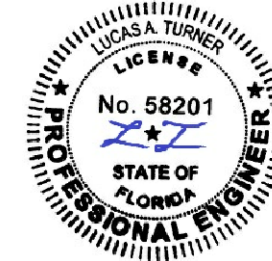
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DATE 6-10-2021						

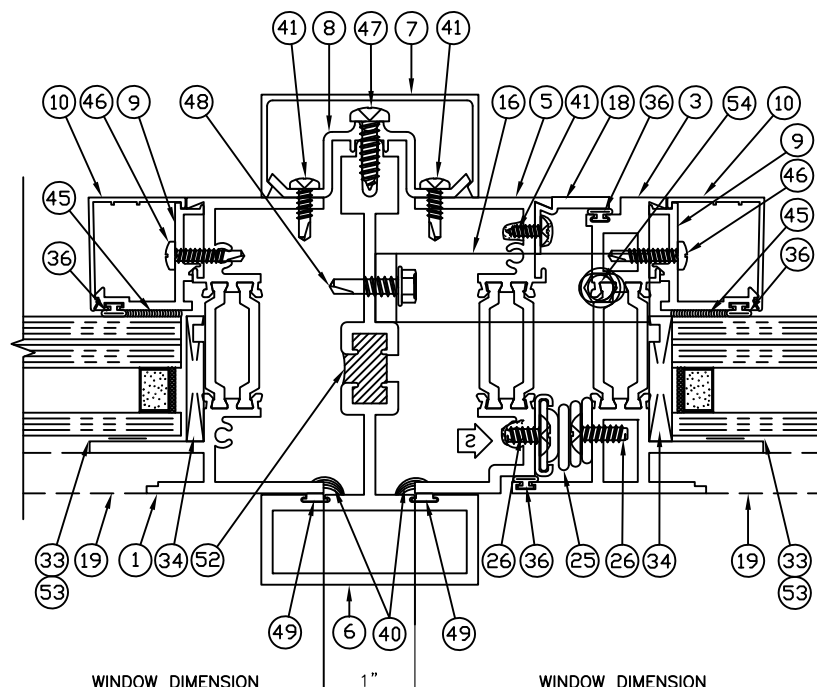


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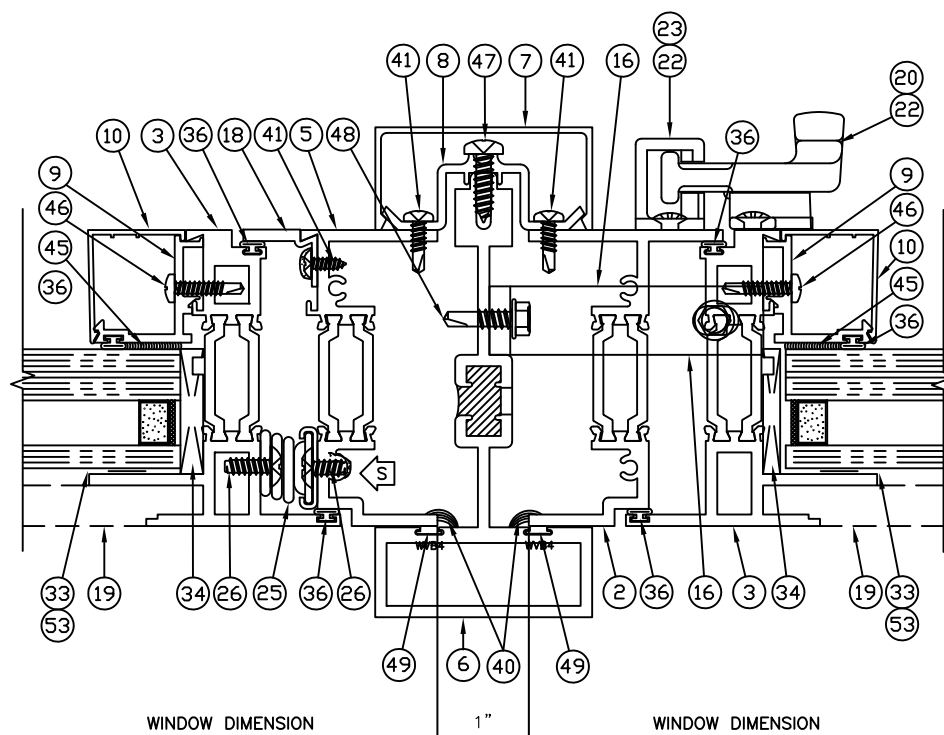




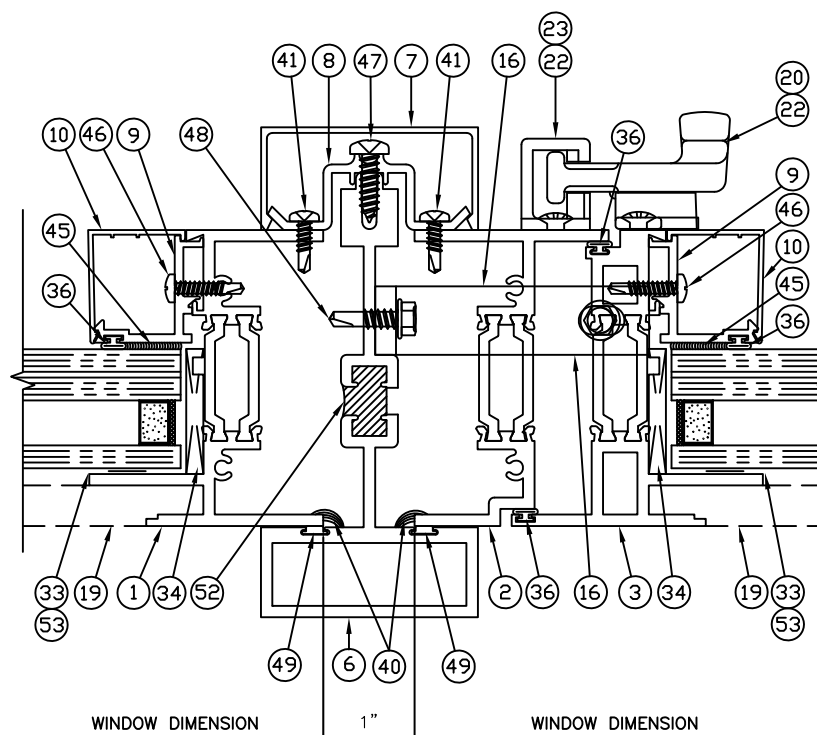
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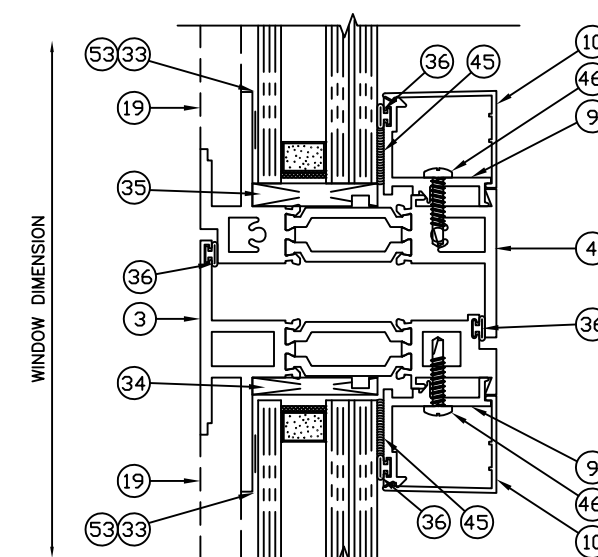
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