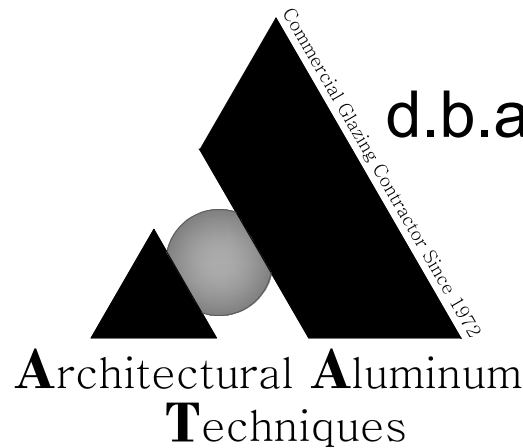




CT Windows

d.b.a Architectural Aluminum Techniques

T850 CURTAIN WALL SYSTEM LARGE & SMALL MISSILE IMPACT LEVEL D or E IMPACT



CURTAIN WALL SYSTEM RATED FOR LARGE AND SMALL MISSILE IMPACT.

SERIES T850 CURTAIN WALL

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH REQUIREMENTS OF THE 8TH EDITION FLORIDA BUILDING CODE (2023), INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) PROVISIONS.

LARGE MISSILE IMPACT CURTAIN WALL SYSTEM TO BE USED AT ELEVATIONS BELOW 30'-0" OF GRADE LEVEL. FOR ELEVATIONS 30'-0" ABOVE GRADE LEVEL, SMALL MISSILE IMPACT SYSTEM TO BE USED.

THIS SYSTEM IS APPROVED FOR AIR AND WIND INFILTRATION.

ANCHORS SHALL BE AS LISTED. SPACED AS SHOWN ON DETAILS. EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHOR OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

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 FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.

METAL STRUCTURES NOT BY CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES, TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

ALUMINUM IN CONTACT WITH CONCRETE OR GROUT MATERIALS SHALL BE COATED WITH ALKALI RESISTANT COATING SUCH AS HEAVY BODIED BITUMINOUS PAINT.

ULTIMATE WIND LOADS OBTAINED FROM ASCE7-22, MULTIPLIED BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAXIMUM DESIGN LOADS IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

INSTRUCTIONS USE CHARTS AS FOLLOWS

STEP 1: DETERMINE (ASD) DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT & WIND ZONE PER ASCE7-22 STANDARD.

STEP 2: SEE TYPICAL ELEVATION ON SHEET E1 or E2 FOR MAXIMUM SIZES.

STEP 3: SEE CHART ON SHEET G1 & G2 FOR APPROVED GLASS TYPES AND DESIGN LOAD CAPACITIES.

STEP 4: CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET M1 THROUGH M3. THE CAPACITY SHOULD EXCEED THE JOB REQUIRED DESIGN LOAD.

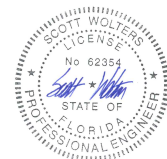
STEP 5: ANCHOR OPTION SEE SHEET A1 THROUGH A11 FOR TYPICAL HEAD & SILL ANCHOR TO COVER ALL CONDITIONS.

STEP 6: THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO ENTIRE SYSTEM.

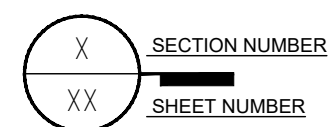
STEP 7: FOR ANCHOR CONDITION IN JOB EXCEEDS THE APPROVED LOAD, TO BE ENGINEERED SEPARATELY.

ABBREVIATIONS:

- D.L.O.	DAYLIGHT OPENING	⊙	CENTER LINE
- E.J.	EXPANSION JOINT	- H.S.	HEAT STRENGTHENED
- F.H.	FRAME HEIGHT	- SSG	STRUCTURAL SILICONE GLAZED
- F.W.	FRAME WIDTH	- TEMP	TEMPERED
- LG.	LONG	- O.C.	ON CENTER
- STL.	STEEL	⬠	D/L, W/L ANCHOR
- ALUM.	ALUMINUM	- I.S.	INSIDE
- MULL.	MULLION	- W.L.	WIND LOAD
- HORIZ.	HORIZONTAL	- D.L.	DEAD LOAD
- W/	WITH		
- W/O	WITHOUT		
- VERT.	VERTICAL		
- O.S.	OUTSIDE		
- S.S.	STAINLESS STEEL		

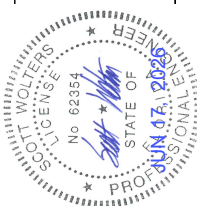


Digitally signed
by Scott Wolters
Date: 2026.06.17
21:12:54 -04'00'

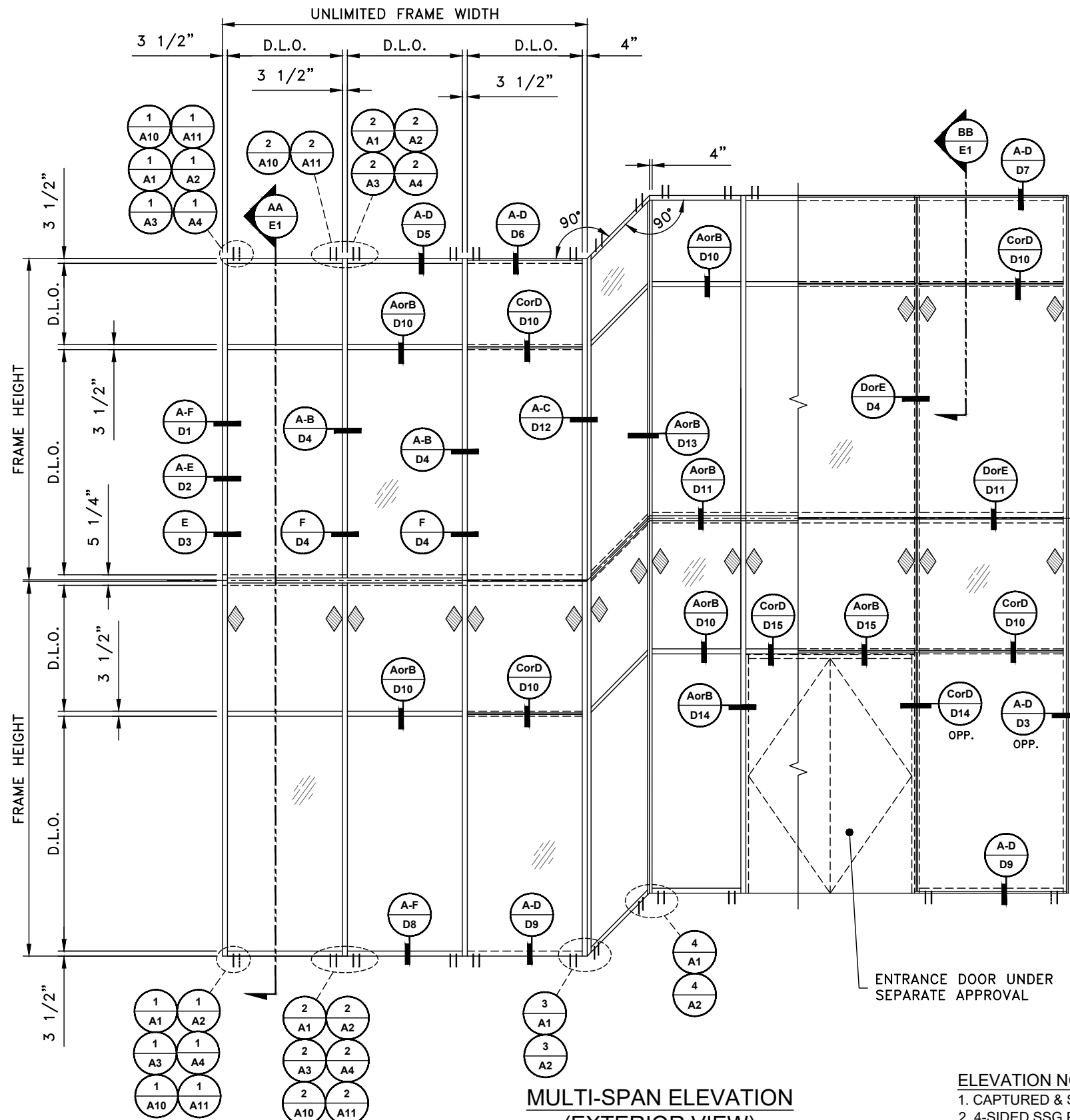


FLORIDA APPROVAL:
FL#41747.2

REVISIONS				
1	GLASS REVISION	08-28-24		
2	DEEP MULLION ADDED	06-18-26		
3				
4				
5				
DRAWN BY: HG				
DATE: 02/14/2024				
T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)				
CT WINDOWS				
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES				
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824				
(407) 857-9237				



SCOTT WOLTERS FL PE# 62354	SEAL:
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
C1	
DRAWING NO. AAT2-24	
SHEET NO. 1 of 46	

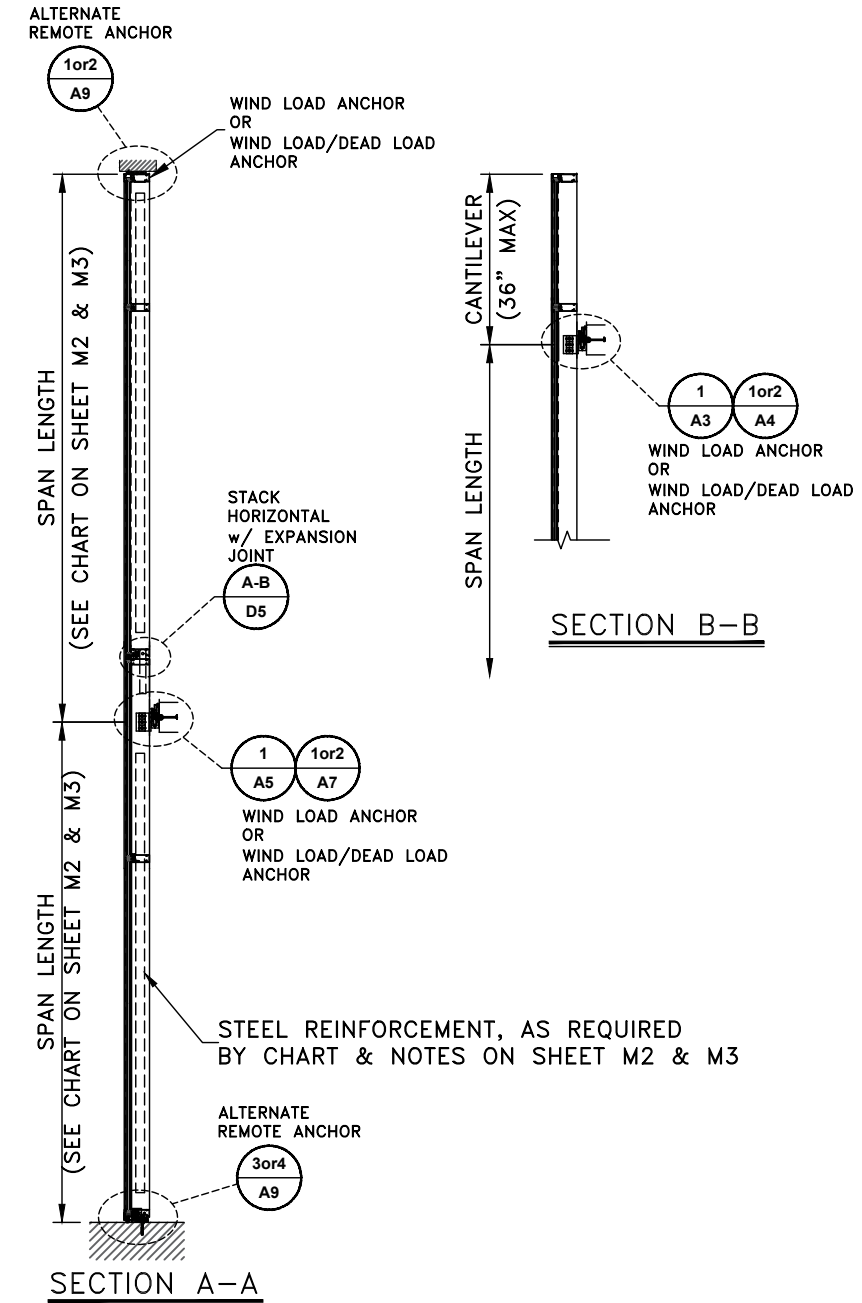


MULTI-SPAN ELEVATION (EXTERIOR VIEW)

T850
SCALE: N.T.S.

ELEVATION NOTES:

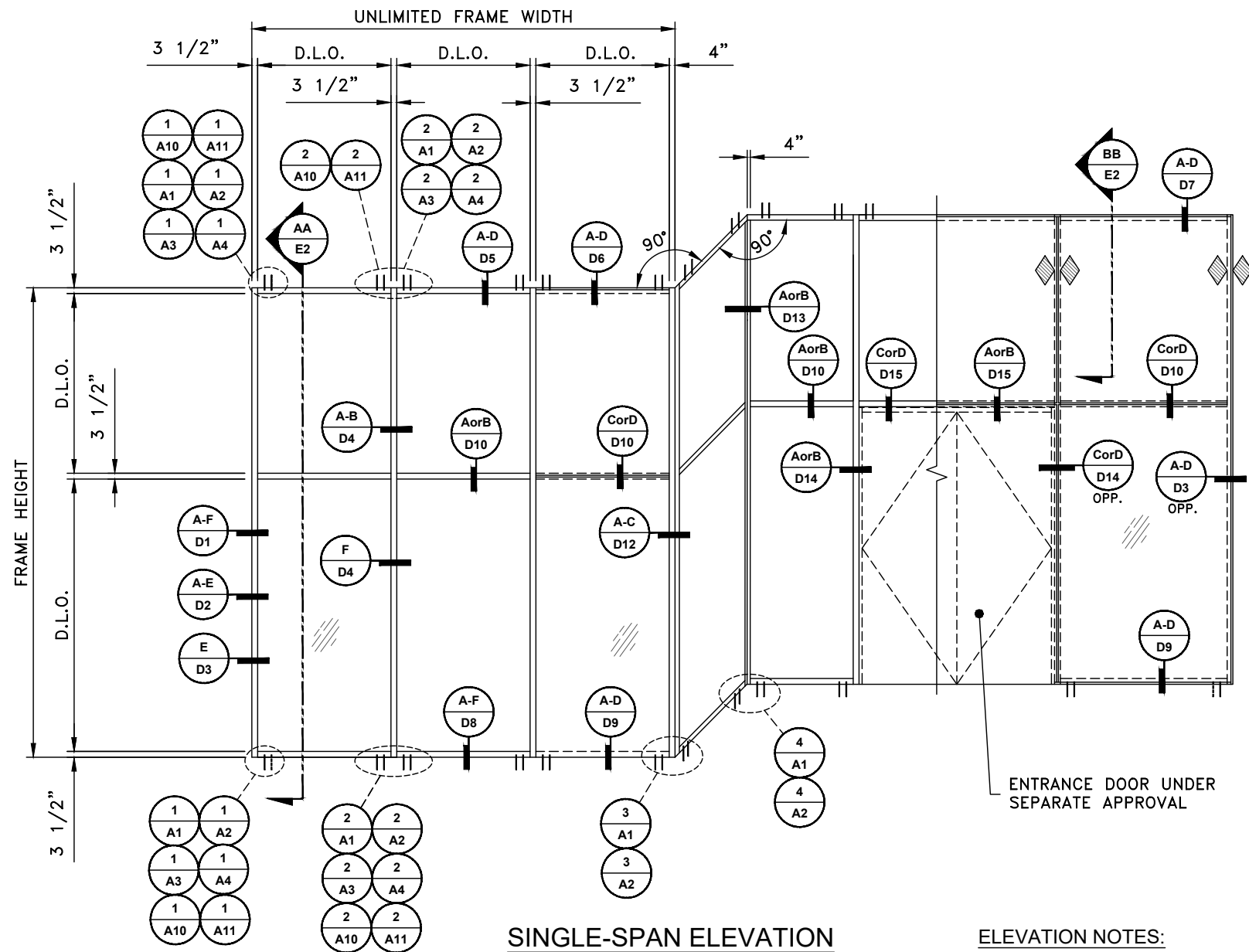
1. CAPTURED & SSG VERTICALS & HORIZONTALS MAY BE USED INTERCHANGEABLY.
2. 4-SIDED SSG PANELS ARE SHOP-GLAZED ONLY. ANY JOBSITE REGLAZING TO BE INSTALLED PER PROCEDURE APPROVED BY SILICONE MANUFACTURER.
3. TWO-SPAN MULLION SHOWN. UNLIMITED SPANS MAY BE USED.
4. CANTILEVERED HEAD OPTION MAY BE USED FOR ANY SPAN CONFIGURATION.



T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		REVISIONS		
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES 9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824 (407) 857-9237		1	GLASS REVISION	08-28-24
		2	DEEP MULLION ADDED	06-18-26
		3		
		4		
		5		
DRAWN BY: HG		DATE: 02/14/2024		

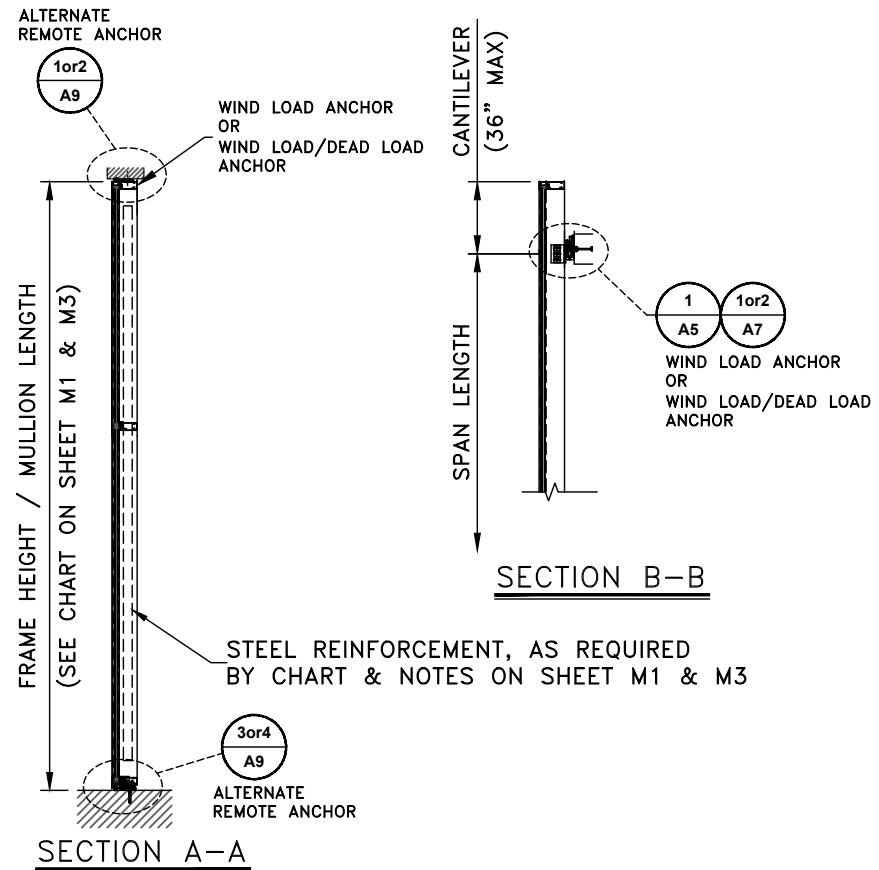


SCOTT WOLTERS FL PE# 62354	SEAL:
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
E1	
DRAWING NO. AAT2-24	
SHEET NO. 2 of 46	

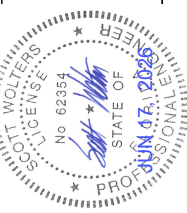


SINGLE-SPAN ELEVATION
(EXTERIOR VIEW)
T850
SCALE: N.T.S.

- ELEVATION NOTES:
1. CAPTURED & SSG VERTICALS & HORIZONTALS MAY BE USED INTERCHANGEABLY.
 2. 4-SIDED SSG PANELS ARE SHOP-GLAZED ONLY. ANY JOBSITE REGLAZING TO BE INSTALLED PER PROCEDURE APPROVED BY SILICONE MANUFACTURER.
 3. CANTILEVERED HEAD OPTION MAY BE USED FOR ANY SPAN CONFIGURATION.



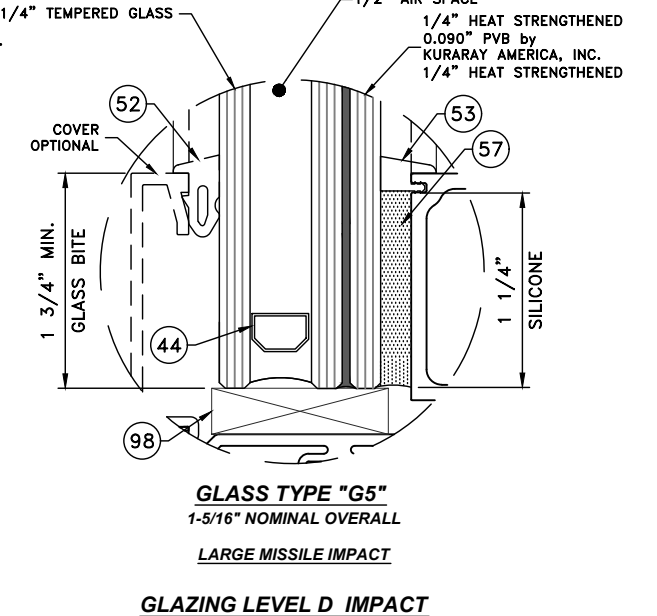
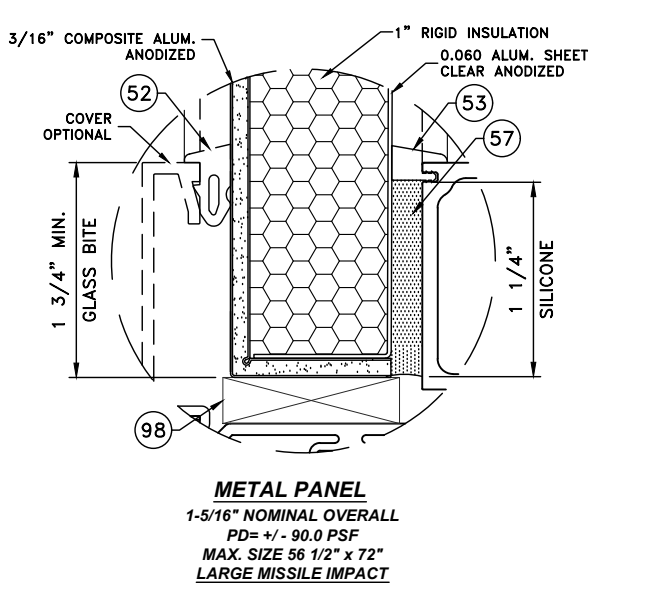
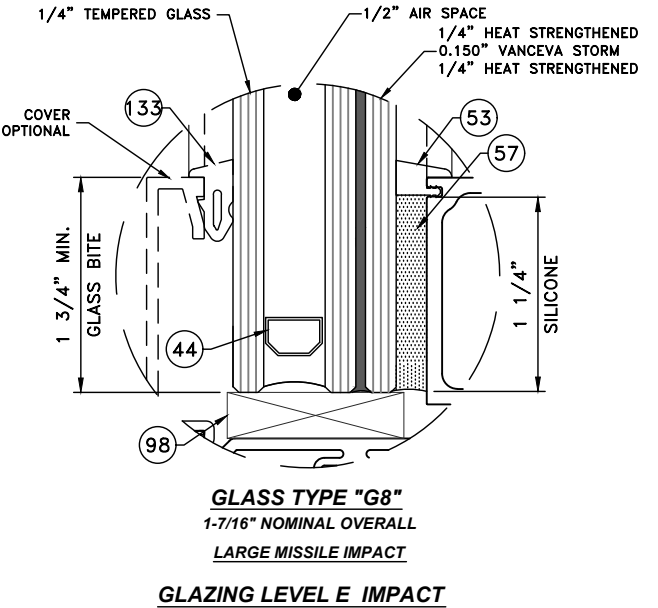
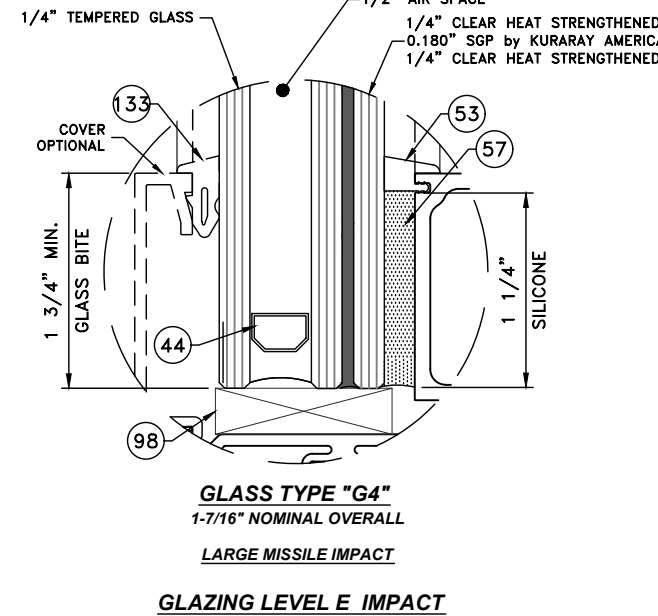
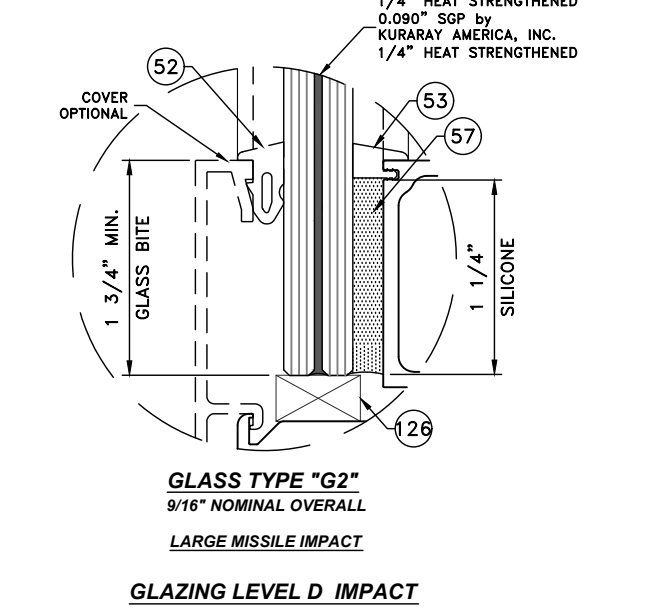
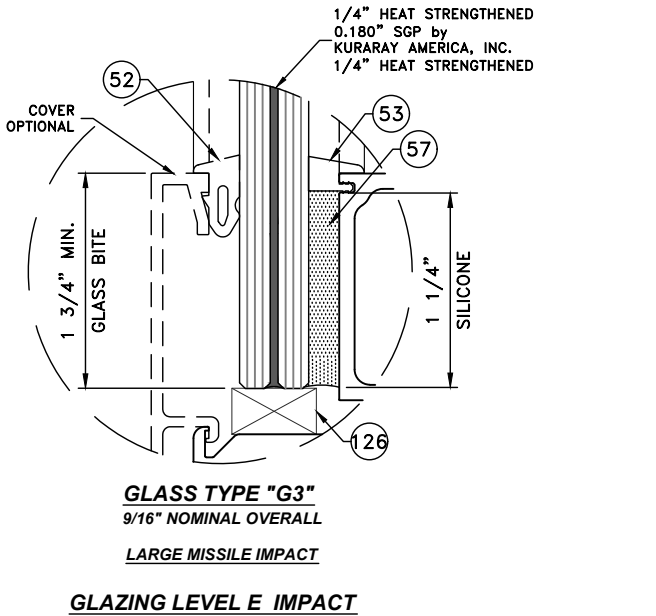
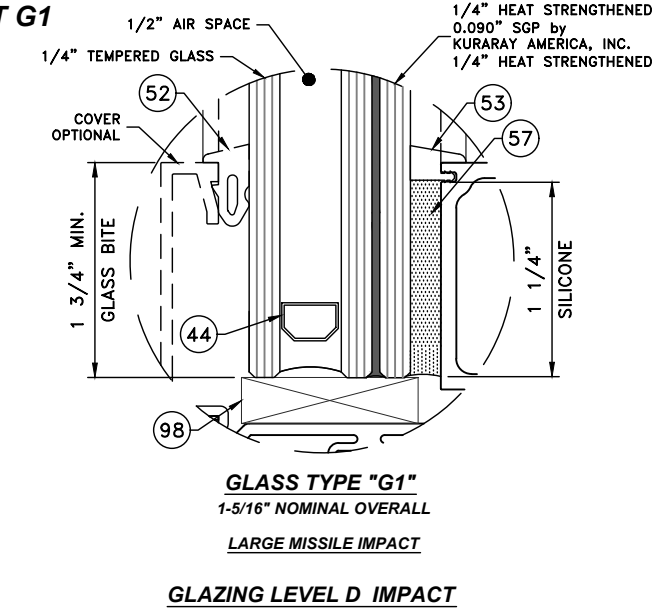
REVISIONS		T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)	
1	GLASS REVISION	08-28-24	06-18-26
1	GLASS REVISION	08-28-24	06-18-26
2	DEEP MULLION ADDED		
3			
4			
5			
DRAWN BY: HG		DATE: 02/14/2024	
T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		CT WINDOWS	
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES		9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824	
		(407) 857-9237	



SCOTT WOLTERS FL PE# 62354	SEAL:
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
E2	
DRAWING NO. AAT2-24	
SHEET NO. 3 of 46	

D.L.O. HEIGHT (IN.)	D.L.O. WIDTH (IN.)	ALLOWABLE DESIGN PRESSURES (+/- psf)											
		CAPTURED SYSTEM GLASS TYPES						SSG SYSTEM					
		LMI (LEVEL D)			LMI (LEVEL E)			LMI					
		G1	G2	G5	MP	G3	G4	G8	G1	G2	G5	G8	
72	42	130	130	60	130	130	90	50	113	113	60	50	
	48	130	130	60	130	130	90	50	113	113	60	50	
	56 1/2	130	130	60	130	120	90	50	113	113	60	50	
	66	130	130	60	130	102	90	50	106	106	60	50	
	75 1/4	130	130	60	-	90	90	50	97	97	60	50	
	76 1/4	113	113	60	-	-	90	50	97	97	60	50	
	79 1/2	113	113	60	-	-	90	-	97	97	60	-	
84	42	130	130	60	130	130	90	50	113	113	60	50	
	48 1/4	130	130	60	130	120	90	50	113	113	60	50	
	54	130	130	60	-	107	90	50	113	113	60	50	
	56 1/2	130	130	60	-	102	90	50	113	113	60	50	
	64 1/2	130	130	60	-	90	90	50	109	109	60	50	
	65 1/2	113	113	60	-	-	90	50	106	106	60	50	
	69 1/4	113	113	60	-	-	90	-	101	101	60	-	
	76	113	113	-	-	-	90	-	92	92	-	-	
	77 3/4	113	113	-	-	-	-	-	90	90	-	-	
	79	113	-	-	-	-	-	-	88	-	-	-	
	36	130	130	60	130	130	90	50	113	130	60	50	
96	42 1/4	130	130	60	130	120	90	50	113	130	60	50	
	48	130	130	60	-	106	90	50	113	113	60	50	
	54 1/2	130	130	60	-	93	90	50	113	130	60	50	
	56 1/2	130	130	60	-	90	90	50	113	130	60	50	
	57 1/4	113	113	60	-	-	90	50	113	113	60	50	
	60 3/4	113	113	60	-	-	90	-	113	113	60	-	
	66 1/2	113	113	-	-	-	90	-	105	113	-	-	
	68	113	113	-	-	-	-	-	103	103	-	-	
	69 1/4	113	-	-	-	-	-	-	101	-	-	-	
	36	130	130	60	130	125	90	50	113	130	60	50	
	37 1/2	130	130	60	130	120	90	50	113	130	60	50	
108	48	130	130	60	-	94	90	50	113	130	60	50	
	50 1/4	130	130	60	-	90	90	50	113	130	60	50	
	51	113	113	60	-	-	90	50	113	113	60	50	
	54	113	113	60	-	-	90	-	113	113	60	-	
	59 1/4	113	113	-	-	-	90	-	113	113	-	-	
	60 1/2	113	113	-	-	-	-	-	113	113	-	-	
	61 1/2	113	-	-	-	-	-	-	113	-	-	-	
115 3/4	35	130	130	60	130	120	90	50	113	130	60	50	
	42	130	130	60	-	100	90	50	113	130	60	50	
	46 3/4	130	130	60	-	90	90	50	113	130	60	50	
	47 1/2	113	113	60	-	-	90	50	113	113	60	50	
	50 1/4	113	113	60	-	-	90	-	113	113	60	-	
	55 1/4	113	113	-	-	-	90	-	113	113	-	-	
	56 1/2	113	113	-	-	-	-	-	113	113	-	-	
117 5/8	34 1/2	130	130	60	130	120	90	50	113	130	60	50	
	42	130	130	60	-	98	90	50	113	130	60	50	
	45	130	130	60	-	92	90	50	113	130	60	50	
	46	130	130	60	-	90	90	50	113	130	60	50	
	46 3/4	113	113	60	-	-	90	50	113	113	60	50	
	49 1/2	113	113	60	-	-	90	-	113	113	60	-	
	54 1/4	113	113	-	-	-	90	-	113	113	-	-	
	55 1/2	113	113	-	-	-	-	-	113	113	-	-	
126	32 1/4	130	130	60	130	120	90	50	113	130	60	50	
	42	130	130	60	-	92	90	50	113	130	60	50	
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	51 3/4	113	113	-	-	-	-	-	113	113	-	-	
	52 3/4	113	-	-	-	-	-	-	113	-	-	-	
132	30 3/4	130	130	60	130	120	90	50	113	130	60	50	
	36	130	130	60	-	102	90	50	113	130	60	50	
	41	130	130	60	-	90	90	50	113	130	60	50	
	41 1/2	113	113	60	-	-	90	50	113	113	60	50	
	44	113	113	60	-	-	90	-	113	113	60	-	
	48 1/4	113	113	-	-	-	90	-	113	113	-	-	
	49 1/2	113	113	-	-	-	-	-	113	113	-	-	
138	29 1/2	130	130	60	130	120	90	50	113	130	60	50	
	36	130	130	60	-	98	90	50	113	130	60	50	
	39 1/4	130	130	60	-	90	90	50	113	130	60	50	
	39 3/4	113	113	60	-	-	90	50	113	113	60	50	
	42	113	113	60	-	-	90	-	113	113	60	-	
	46 1/4	113	113	-	-	-	90	-	113	113	-	-	
	47 1/4	113	113	-	-	-	-	-	113	113	-	-	
	48	113	-	-	-	-	-	-	113	-	-	-	
144	28 1/4	130	130	60	130	119	90	50	113	130	60	50	
	37 1/2	130	130	60	-	90	90	50	113	130	60	50	
	38 1/4	113	113	60	-	-	90	50	113	113	60	50	
	40 1/4	113	113	60	-	-	90	-	113	113	60	-	
	44 1/4	113	113	-	-	-	90	-	113	113	-	-	
	45 1/4	113	113	-	-	-	-	-	113	113	-	-	

CHART G1



NOTE:
GLASS COMPLIES WITH ASTM E1300-09
(3 SEC. GUSTS).

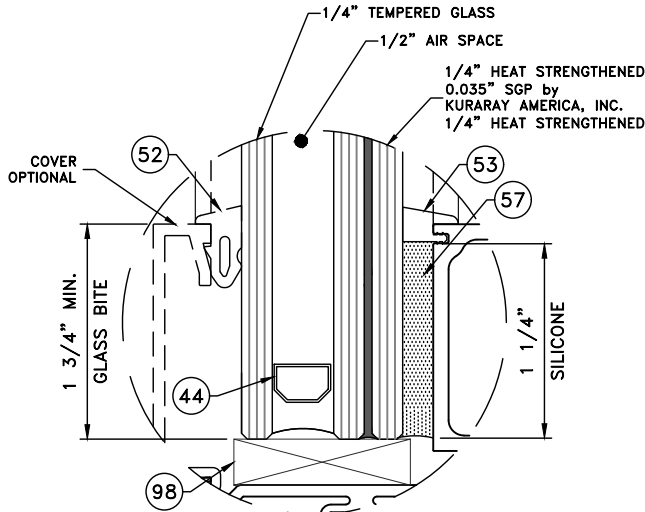
REVISIONS	T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)	
	GLASS REVISION	DEEP MULLION ADDED
1	08-28-24	06-18-26
2		
3		
4		
5		
DRAWN BY: HG		
DATE: 02/14/2024		
CT WINDOWS		
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES		
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824		
(407) 857-9237		



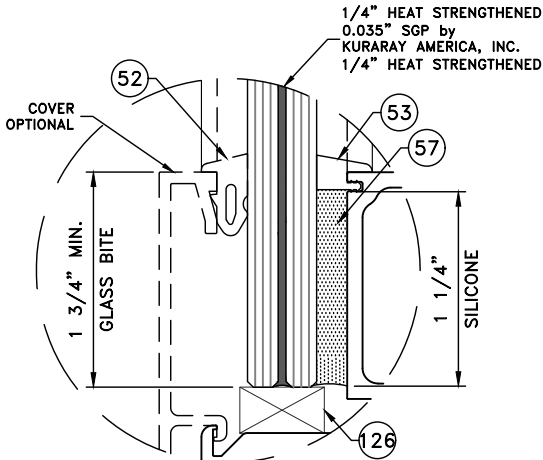
SCOTT WOLTERS FL PE# 62354	SEAL:
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
G1	
DRAWING NO. AAT2-24	
SHEET NO. 4 of 46	

D.L.O. HEIGHT (IN.)	D.L.O. WIDTH (IN.)	ALLOWABLE DESIGN PRESSURES (+/-psf)				
		CAPTURED SYSTEM			SSG SYSTEM	
		SMI			SMI	
		G6	G7	MP		G6
72	42	113	130	130		113
	48	113	130	130		113
	56 1/2	113	130	130		113
	66	113	130	130		106
	75 1/4	113	130	-		97
	79 1/2	113	-	-		97
84	42	113	130	130		113
	48 1/4	113	130	130		113
	54	113	130	-		113
	56 1/2	113	130	-		113
	64 1/2	113	130	-		109
	69 1/4	113	-	-		101
	76	113	-	-		92
	77 3/4	113	-	-		90
96	79	113	-	-		88
	36	113	130	130		113
	42 1/4	113	130	130		113
	48	113	130	-		113
	54 1/2	113	130	-		113
	56 1/2	113	130	-		113
	60 3/4	113	-	-		113
	66 1/2	113	-	-		105
	68	113	-	-		103
108	69 1/4	113	-	-		101
	36	113	130	130		113
	37 1/2	113	130	130		113
	48	113	130	-		113
	50 1/4	113	130	-		113
	54	113	-	-		113
	59 1/4	113	-	-		113
115 3/4	60 1/2	113	-	-		113
	61 1/2	113	-	-		113
	35	113	130	130		113
	42	113	130	-		113
	46 3/4	113	130	-		113
	50 1/4	113	-	-		113
	55 1/4	113	-	-		113
117 5/8	56 1/2	113	-	-		113
	57 1/4	113	-	-		113
	34 1/2	113	130	130		113
	42	113	130	-		113
	45	113	130	-		113
	46	113	130	-		113
	49 1/2	113	-	-		113
126	54 1/4	113	-	-		113
	55 1/2	113	-	-		113
	56 1/2	113	-	-		113
	32 1/4	113	130	130		113
	42	113	130	-		113
	43	113	130	-		113
	46 1/4	113	-	-		113
132	50 3/4	113	-	-		113
	51 3/4	113	-	-		113
	52 3/4	113	-	-		113
	30 3/4	113	130	130		113
	36	113	130	-		113
	41	113	130	-		113
	44	113	-	-		113
138	48 1/4	113	-	-		113
	49 1/2	113	-	-		113
	50 1/4	113	-	-		113
	29 1/2	113	130	130		113
	36	113	130	-		113
	39 1/4	113	130	-		113
	42	113	-	-		113
144	46 1/4	113	-	-		113
	47 1/4	113	-	-		113
	48	113	-	-		113
	28 1/4	130	130	130		113
	37 1/2	130	130	-		113
	40 1/4	113	-	-		113
	44 1/4	113	-	-		113
	45 1/4	113	-	-		113
	46	113	-	-		113

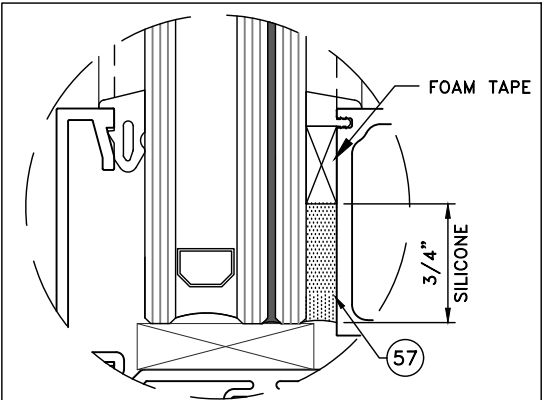
CHART G2



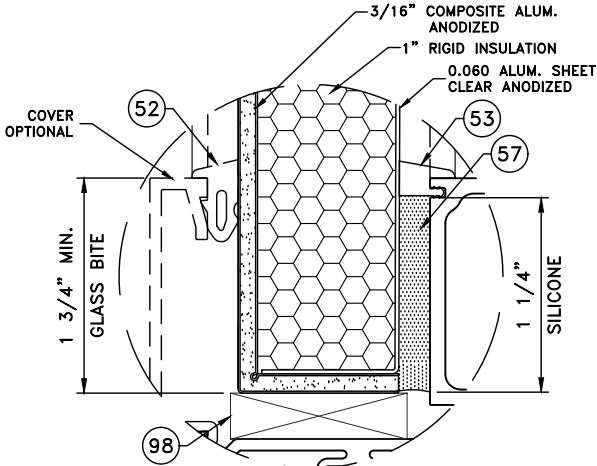
GLASS TYPE "G6"
1-5/16" NOMINAL OVERALL
SMALL MISSILE IMPACT



GLASS TYPE "G7"
9/16" NOMINAL OVERALL
SMALL MISSILE IMPACT



OPTIONAL SILICONE BITE When
DESIGN PRESSURE IS < 90 PSF
FOR ALL GLAZING TYPES



METAL PANEL
1-5/16" NOMINAL OVERALL
PD= +/- 90.0 PSF
MAX. SIZE 56 1/2" x 72"
SMALL MISSILE IMPACT

NOTE:
GLASS COMPLIES WITH ASTM E1300-09
(3 SEC. GUSTS).

REVISIONS		T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)	
1	GLASS REVISION	08-28-24	06-18-26
2	DEEP MULLION ADDED		
3			
4			
5			
DRAWN BY: HG			
DATE: 02/14/2024			
CT WINDOWS			
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES			
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824			
(407) 857-9237			

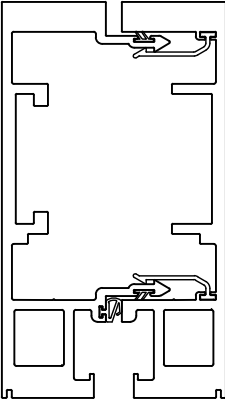


SCOTT WOLTERS FL PE# 62354	SEAL:
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
G2	
DRAWING NO. AAT2-24	
SHEET NO. 5 of 46	

SINGLE SPAN MULLION CHART ALLOWABLE DESIGN PRESSURE (psf)												SINGLE SPAN MULLION CHART ALLOWABLE DESIGN PRESSURE (psf)											
HEIGHT (in.)	WIDTH (in.)	CAPTURED & SSG MULLIONS										HEIGHT (in.)	WIDTH (in.)	CAPTURED & SSG MULLIONS									
		M1	M2	M3	M4	M5	J1	J2 or J3	J4	J5	C1 or C2			M1	M2	M3	M4	M5	J1	J2 or J3	J4	J5	C1 or C2
96	54	130	130	130	90	130	130	90	90	130	130	162	36	128	130	130	64	130	130	90	64	130	130
	60	130	130	130	90	130	130	90	90	130	130		42	110	130	130	54	130	130	90	54	130	130
	66	130	130	130	90	130	130	90	90	130	130		44	105	125	130	52	130	130	90	52	130	130
	74 1/2	125	125	130	90	130	130	90	90	130	-		48	96	115	127	-	127	127	90	-	127	130
	79 1/2	117	117	130	-	130	130	90	-	130	-		54	85	106	113	-	113	113	90	-	113	125
108	48	130	130	130	90	130	130	90	90	130	130	166 1/2	36	118	130	130	58	130	130	90	58	130	130
	54	130	130	130	90	130	130	90	90	130	130		40	101	125	130	53	130	130	90	53	130	130
	60	130	130	130	90	130	130	90	90	130	130		43	99	122	130	49	130	130	90	49	130	130
	66	126	126	130	90	130	130	90	90	130	130		48	89	110	117	-	117	117	90	-	117	130
	72	115	115	130	-	130	130	90	-	130	130		51	83	103	110	-	110	110	90	-	110	122
120	79 1/2	104	113	130	-	130	130	90	-	130	-	55 1/2	77	95	101	-	101	101	90	-	101	112	
	42	130	130	130	90	130	130	90	90	130	130	57	75	92	98	-	98	98	-	-	98	-	
	48	130	130	130	90	130	130	90	90	130	130	60	71	88	93	-	93	93	-	-	93	-	
	54	130	130	130	90	130	130	90	90	130	130	64 1/2	-	-	87	-	90	87	-	-	90	-	
	60	125	125	130	90	130	130	90	90	130	130	77 3/4	-	-	-	-	90	-	-	-	90	-	
123 3/16	66	113	113	130	-	130	130	90	-	130	130	174	36	103	130	130	51	130	130	90	51	130	130
	72	104	113	130	-	130	130	90	-	130	130		41	90	115	120	45	120	120	90	45	120	130
	77	97	113	130	-	130	130	90	-	130	-		42	88	110	117	-	117	117	90	-	117	130
	79 1/2	94	94	113	-	113	113	-	-	113	-		48	77	96	102	-	102	102	90	-	102	114
	42	130	130	130	90	130	130	90	90	130	130		53	70	87	93	-	93	93	90	-	93	103
132	48	130	130	130	90	130	130	90	90	130	130	57	65	81	87	-	90	87	-	-	90	-	
	54	130	130	130	90	130	130	90	90	130	130	62	-	-	80	-	90	80	-	-	90	-	
	60	126	126	130	90	130	130	90	90	130	130	74 1/4	-	-	-	-	90	-	-	-	90	-	
	66	110	113	130	-	130	130	90	-	130	130	36	94	118	118	46	118	118	90	46	118	130	
	75 1/2	97	113	130	-	130	130	90	-	130	-	40	84	112	112	42	112	112	90	42	112	123	
138	79 1/2	92	92	113	-	113	113	-	-	113	-	180	42	80	100	107	-	107	107	90	-	107	117
	36	130	130	130	90	130	130	90	90	130	130		48	70	88	94	-	94	94	90	-	94	103
	42	130	130	130	90	130	130	90	90	130	130		51 1/2	65	82	87	-	90	87	90	-	90	96
	48 1/4	130	130	130	88	130	130	88	88	130	130		54	62	78	83	-	90	83	-	-	90	-
	54	125	125	130	78	130	130	90	78	130	130		55 1/2	61	77	81	-	90	81	-	-	90	-
143 1/4	60	112	113	130	-	130	130	90	-	130	130	60	-	-	75	-	90	75	-	-	90	-	
	66	102	113	130	-	130	130	90	-	130	130	72	-	-	-	-	90	-	-	-	90	-	
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	79 1/2	-	-	113	-	113	113	-	-	113	-	42	72	91	96	-	96	96	90	-	96	106	
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	48	130	130	130	77	130	130	90	77	130	130		49 1/2	61	77	82	-	90	82	90	-	90	90
	52	124	124	130	71	130	130	90	71	130	130		53 1/2	57	72	76	-	90	76	-	-	90	-
	54	120	120	130	-	130	130	90	-	130	130		58	-	-	70	-	90	70	-	-	90	-
154 1/2	60	108	113	130	-	130	130	90	-	130	130	69 1/2	-	-	-	-	90	-	-	-	90	-	
	67	97	113	130	-	130	130	90	-	130	130	36	76	96	102	38	102	102	90	38	102	113	
	72	90	90	113	-	113	113	-	-	113	-	37	74	93	100	37	100	100	90	37	100	110	
	78	-	-	113	-	113	113	-	-	113	-	42	65	82	88	-	90	88	90	-	90	97	
	79 1/2	-	-	-	-	90	-	-	-	90	-	45	61	77	82	-	90	82	90	-	90	90	
155	36	130	130	130	90	130	130	90	90	130	130	192	48	57	72	77	-	90	77	90	-	90	84
	42	130	130	130	80	130	130	90	80	130	130		52	53	67	71	-	90	71	-	-	90	-
	48	130	130	130	69	130	130	90	69	130	130		56	-	-	66	-	90	66	-	-	90	-
	54	120	124	130	60	130	130	90	60	130	130		67 1/2	-	-	-	-	90	-	-	-	90	-
	60	107	113	130	-	130	130	90	-	130	130		36	64	79	84	-	90	84	90	-	90	94
159	66	96	113	128	-	128	128	90	-	128	130	204	42	55	68	72	-	90	72	90	-	90	80
	61 1/2	94	113	125	-	125	125	90	-	125	130		45	51	41	68	-	90	68	90	-	90	75
	66 1/2	87	90	113	-	113	113	-	-	113	-		49	47	58	62	-	90	62	-	-	90	-
	71 1/2	-	-	107	-	107	107	-	-	107	-		52 3/4	-	-	58	-	90	58	-	-	90	-
	79 1/2	-	-	-	-	90	-	-	-	90	-		63 1/2	-	-	-	-	90	-	-	-	90	-
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	44	105	125	130	52	130	130	90	52	130	130		45	51	41	68	-	90	68	90	-	90	75
	48	96	115	127	-	127	127	90	-	127	130		49	47	58	62	-	90	62	-	-	90	-
	54	85	106	113	-	113	113	90	-	113	125		52 3/4	-	-	58	-	90	58	-	-	90	-
166 1/2	57	81	101	107	-	107	107	90	-	107	118	204	63 1/2	-	-	-	-	90	-	-	-	90	-
	61 1/2	75	90	99	-	99	99	-	-	99	-												
	66 1/2	-	-	92	-	92	92	-	-	92	-												
	79 1/2	-	-	-	-	90	-	-	-	90	-												
	36	118	130	130	58	130	130	90	58	130	130												
174	40	101	125	130	53	130	130	90	53	130	130	204	36	76</									

2 SPAN or MULTI-SPAN MULLION CHART								
ALLOWABLE DESIGN PRESSURE (psf)								
HEIGHT (in.)	WIDTH (in.)	CAPTURED & SSG MULLIONS						
		M1	M2	M3	M5	J1	J5	C1 or C2
144	48	90	113	130	130	130	130	130
	54	90	113	130	130	130	130	130
	60	90	113	130	130	130	130	130
	66	90	113	130	130	130	130	130
	72	90	113	127	127	127	127	127
	75	88	113	122	122	122	122	122
	79 1/2	-	-	-	90	-	90	-
156	48	90	113	130	130	130	130	130
	54	90	113	130	130	130	130	130
	60	90	113	130	130	130	130	130
	69	88	113	124	124	124	124	124
	72	-	-	-	90	-	90	-
168	48	90	113	130	130	130	130	130
	54	90	113	130	130	130	130	130
	60	90	113	130	130	130	130	130
	64 1/4	88	113	124	124	124	124	124
	72	-	-	-	90	-	90	-
180	42	90	113	130	130	130	130	130
	48	90	113	130	130	130	130	130
	54	90	113	130	130	130	130	130
	60	87	113	122	122	122	122	122
	66	-	-	-	90	-	90	-
192	42	90	113	130	130	130	130	130
	45	90	113	130	130	130	130	130
	48	90	113	123	123	123	123	123
	51	85	106	115	115	115	115	115
	56 1/4	77	96	105	105	105	105	105
	60	-	-	-	90	-	90	-
204	36	90	113	130	130	130	130	130
	39	90	113	128	128	128	128	128
	42	86	113	119	119	119	119	119
	45	80	106	111	111	111	111	111
	48	75	99	104	104	104	104	104
	52 3/4	68	90	95	95	95	95	95
	57 1/2	-	-	-	90	-	90	-
216	33	90	113	130	130	130	130	130
	36	88	108	119	119	119	119	119
	39	81	99	110	110	110	110	110
	42	75	92	102	102	102	102	102
	45	70	86	95	95	95	95	95
	50	63	77	86	90	86	90	86
	54	-	-	-	90	-	90	-
228	36	74	89	100	100	100	100	100
	39	68	82	92	92	92	92	92
	42	63	76	85	90	85	90	85
	45	59	71	80	90	80	90	80
	47 1/4	56	68	76	90	76	90	76
	52	-	-	-	90	-	90	-
240	33	70	82	93	93	93	93	93
	36	64	75	85	90	85	90	85
	39	59	69	78	90	78	90	78
	42	55	64	73	90	73	90	73
	45	51	60	68	90	68	90	68
	50	-	-	-	86.4	-	86.4	-
240	54	-	-	-	80	-	80	-

CHART M2



FOR MULLION CONFIGURATIONS
M1, M2, M3, M5, J1, J5, C1 & C2
REFER TO **SHEET M3** FOR DESCRIPTION

MULTI-SPAN MULLIONS WITH UNEQUAL SPANS MUST MEET ALL OF THE FOLLOWING REQUIREMENTS:

MAX. WINDLOAD = +/- 130 psf (CAPTURED SYSTEM)
+/- 113 psf (SSG SYSTEM)

MAX. DEFLECTION = L/180

MAX. SPAN TRIBUTARY AREA:

MULLIONS M1/M2/M3 = 75 ft²

MULLION M5 = 90 ft²

JAMB MULLION J1 = 39.7 ft²

JAMB MULLION J5 = 47.5 ft²

CORNER = 59.4 ft²

MAX. BENDING MOMENT:

MULLION M1 = 120,750 in-lb.

MULLION M2 = 151,600 in-lb.

MULLION M3 = 174,400 in-lb.

MULLION M5 = 206,400 in-lb.

JAMB MULLION J1 = 92,300 in-lb.

JAMB MULLION J5 = 108,900 in-lb.

CORNER MULLION = 143,600 in-lb.

MAX. END REACTIONS:

MULLION = 4300 lb.

JAMB = 2300 lb.

CORNER = 3200 lb.

MAX. MID-SPAN REACTIONS:

MULLION = 10,500 lb.

JAMB = 5500 lb.

CORNER = 8600 lb.

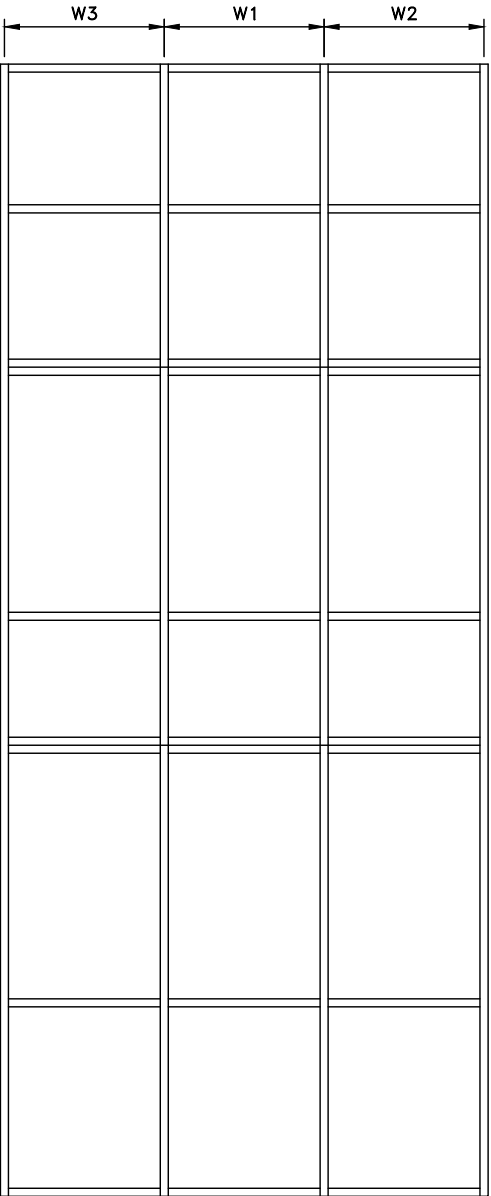
NOTE:

1. SPAN LENGTHS FOR MULLION M5 AND JAMB J5 ARE LIMITED TO 204" IN THE HVHZ. ALL OTHER MULLIONS ARE LIMITED TO 180" IN THE HVHZ.

2. SPAN TRIBUTARY AREA = ANCHOR TO ANCHOR LENGTH X MULLION TRIBUTARY WIDTH (W)

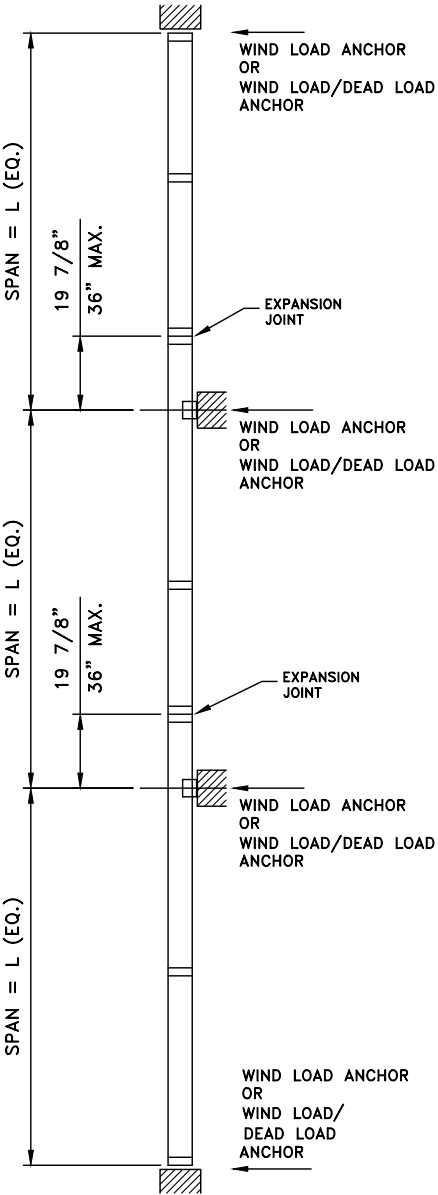
3. CORNER MULLION TRIBUTARY AREA IS BASED ON PROJECTED WIDTH (FROM CENTER OF DLO TO CENTER OF DLO).

NOTE:
1 - SSG APPLICATIONS ARE LIMITED TO +/- 113 psf.
2 - JAMB MULLION & CAULK JOINT MUST MEET THE DEFLECTION REQUIREMENTS OF ASTM C1472.



(INTERMEDIATE MULLION) WIDTH (W) = $\frac{W1+W2}{2}$

(JAMB MULLION) WIDTH (W) = W3



REVISIONS

1	GLASS REVISION	08-28-24
2	DEEP MULLION ADDED	06-18-26

DRAWN BY: HG

DATE:02/14/2024

T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES

9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824

(407) 857-9237

SEAL:

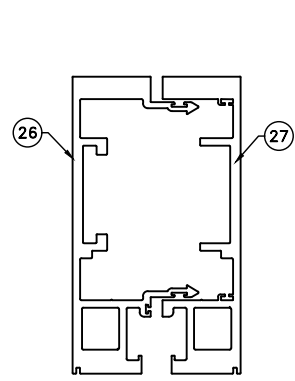
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

M2

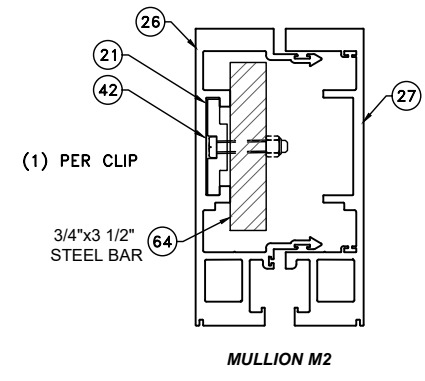
DRAWING NO.
AAT2-24

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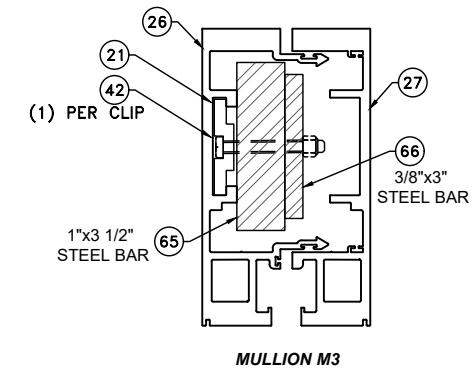
MULLION M1
JAMB MULLION J1

M1 or J1	Ixx IN^4	Sxx IN^3
26 TGF-1101	16.527	5.299
27 TGF-1102	15.478	4.865
TOTAL	32.005	10.164



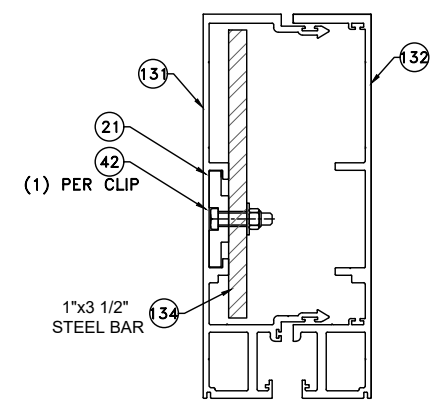
MULLION M2

M2		Ixx IN^4	Sxx IN^3
26	TGF-1101	16.527	5.299
27	TGF-1102	15.478	4.865
64	R1(STL)	2.680	1.531
TOTAL		39.777	14.604
Ixx ALUM + STL x 2.9			



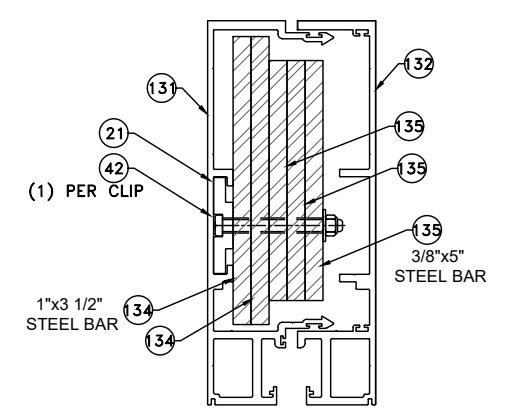
MULLION M3

M3		Ixx IN^4	Sxx IN^3
26	TGF-1101	16.527	5.299
27	TGF-1102	15.478	4.865
65	R2(STL)	3.573	2.042
66	R3(STL)	.844	.563
TOTAL		44.814	17.719
Ix ALUM + STL x 2.9			



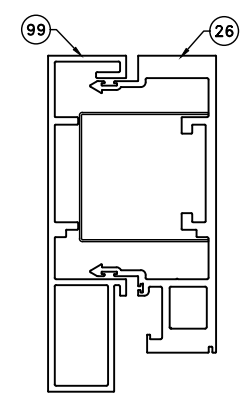
JAMB MULLION J5

J5		Ixx IN^4	Sxx IN^3
131	CTW-1143	19.981	4.517
132	CTW-1144	17.156	3.762
133	R4(STL)	6.750	0.026
TOTAL		56.712	8.355
Ixx ALUM + STL x 2.9			



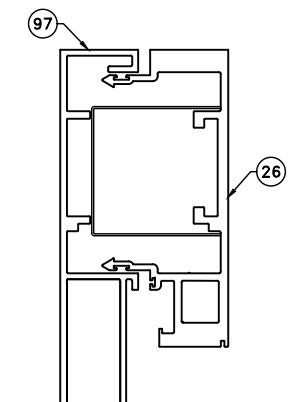
MULLION M5

M5		Ixx IN^4	Sxx IN^3
131	CTW-1143	19.981	4.517
132	CTW-1144	17.156	3.762
133	R4(STL)	6.750	0.026
134	R4(STL)	6.750	0.026
135	R5(STL)	3.906	0.022
136	R5(STL)	3.906	0.022
137	R5(STL)	3.906	0.022
TOTAL		110.269	8.623
Ixx ALUM + STL x 2.9			



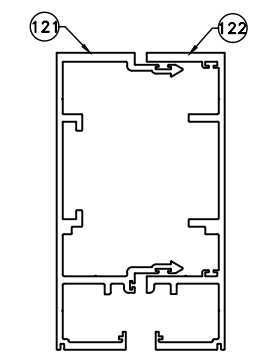
JAMB MULLION J2

J2		Ixx IN^4	Sxx IN^3
26	TGF-1101	16.527	5.299
99	TGF-1103	11.224	3.086
TOTAL		27.751	8.385



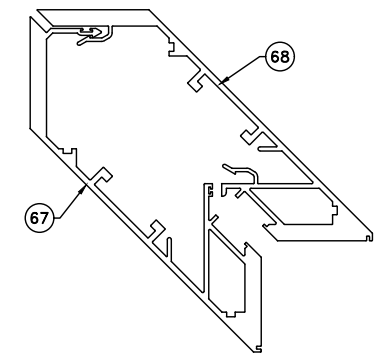
JAMB MULLION J3

J3		Ixx IN^4	Sxx IN^3
26	TGF-1101	16.527	5.299
97	TGF-1104	14.467	3.610
TOTAL		30.994	8.909



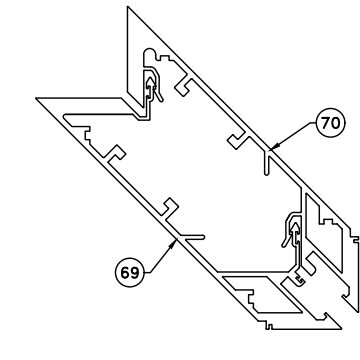
MULLION M4
JAMB MULLION J4

M4 or J4		Ixx IN^4	Sxx IN^3
121	CTW-1121	9.612	3.106
122	CTW-1122	8.307	2.603
TOTAL		17.919	5.709



CORNER MULLION C1

C1		Ix IN^4	Sx IN^3
67	TGF-1110	27.518	8.660
68	TGF-1111	27.376	8.524
TOTAL		54.893	



CORNER MULLION C2

C2		Ix IN^4	Sx IN^3
69	TGF-1112	22.405	6.195
70	TGF-1113	22.277	7.103
TOTAL		44.682	

T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES

9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824

(407) 857-9237

REVISIONS		GLASS REVISION	08-28-24
1	GLASS REVISION	08-28-24	
2	DEEP MULLION ADDED	06-18-26	
3			
4			
5			

DRAWN BY: HG

DATE:02/14/2024



SCOTT WOLTERS
FL PE# 62354

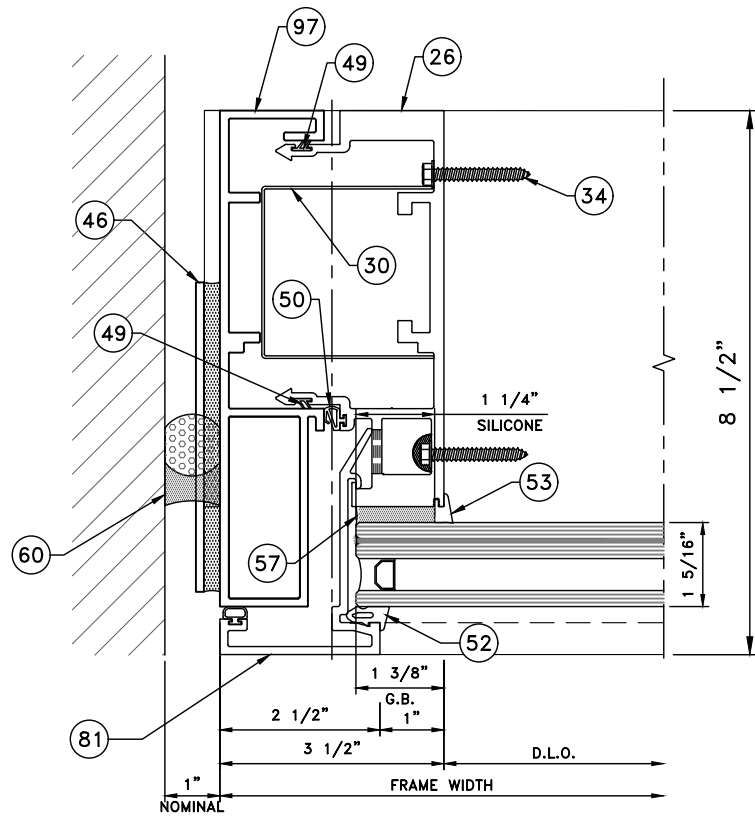
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

SEAL:

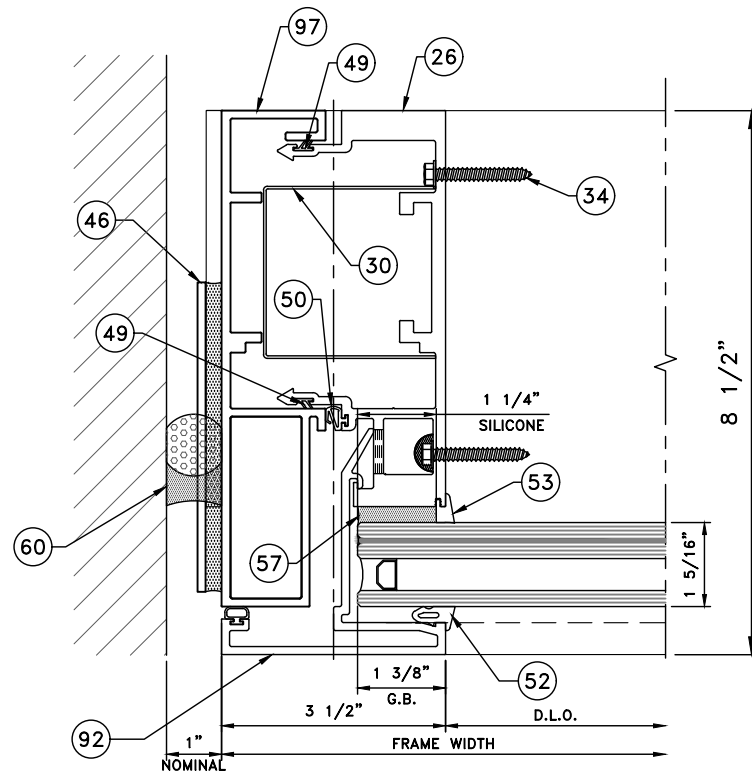
M3

DRAWING NO.
AAT2-24

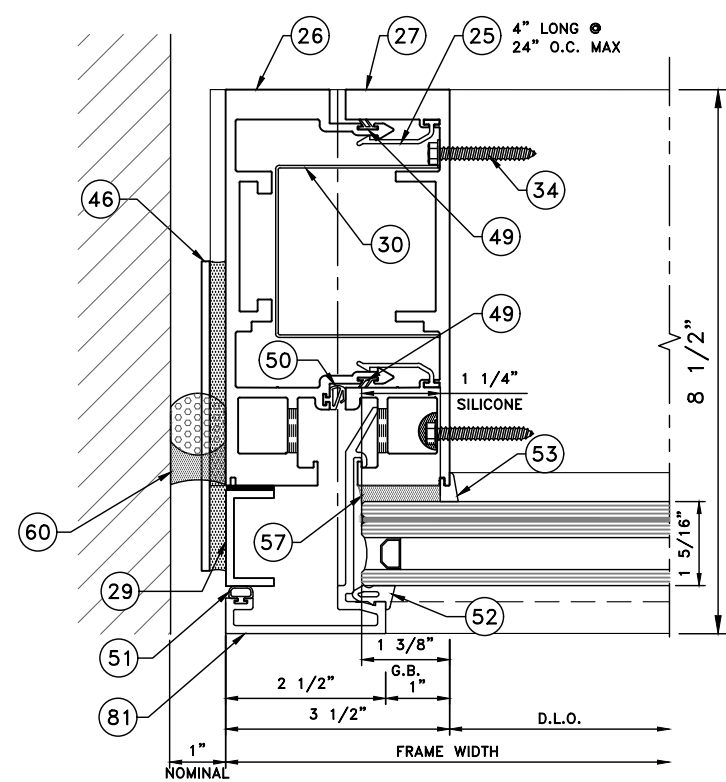
SHEET NO.
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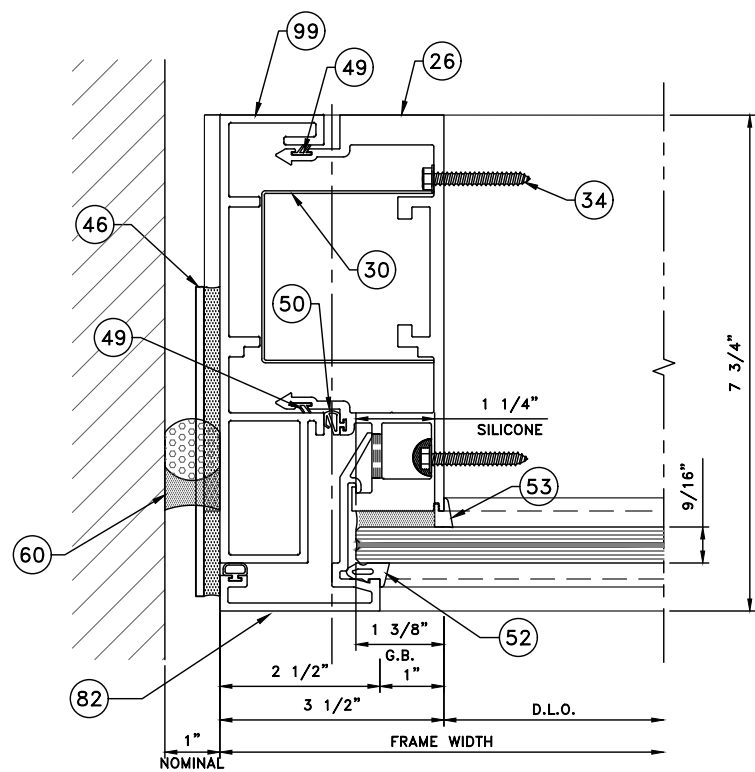
A DETAIL
D1



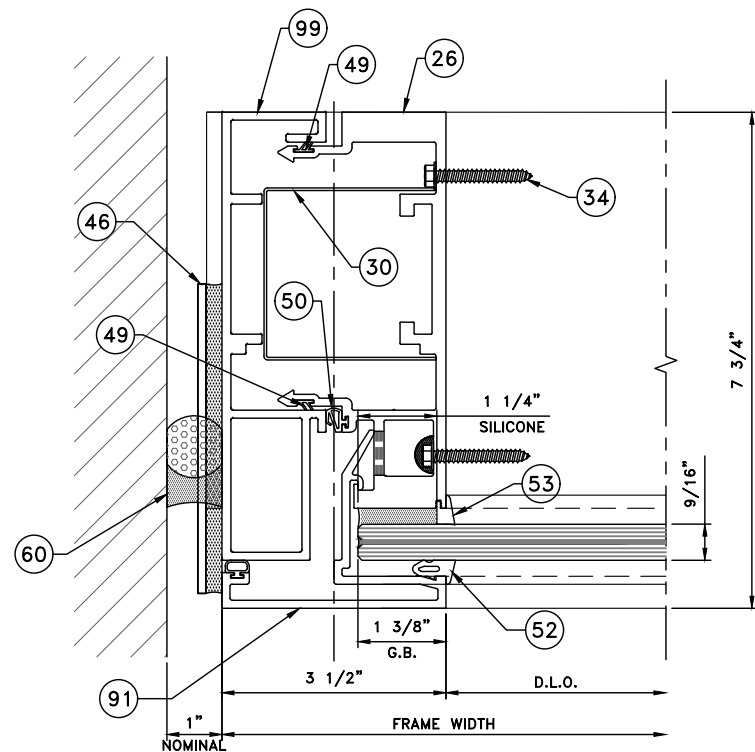
B DETAIL
D1



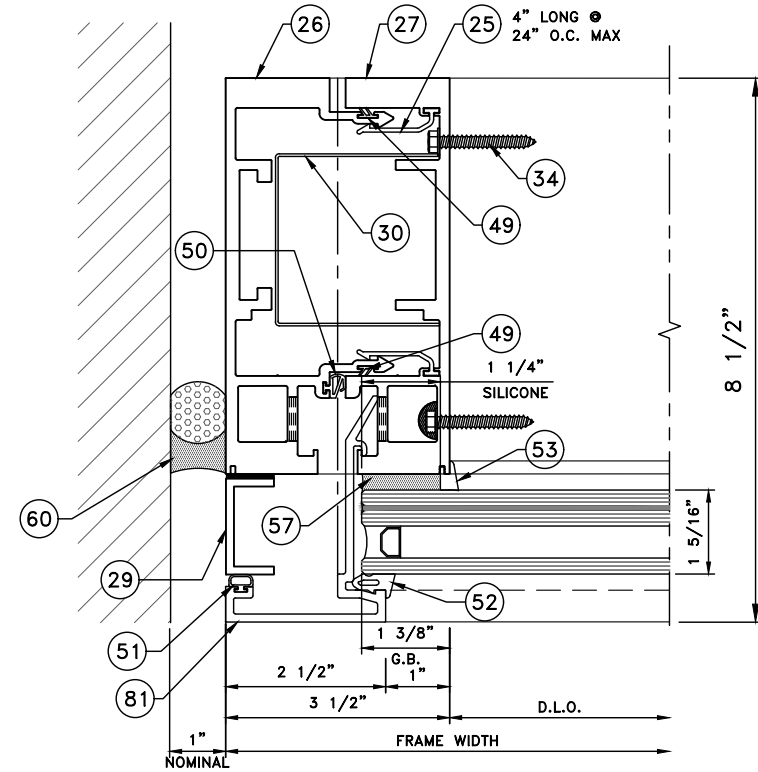
C DETAIL
D1



D DETAIL
D1



E DETAIL
D1

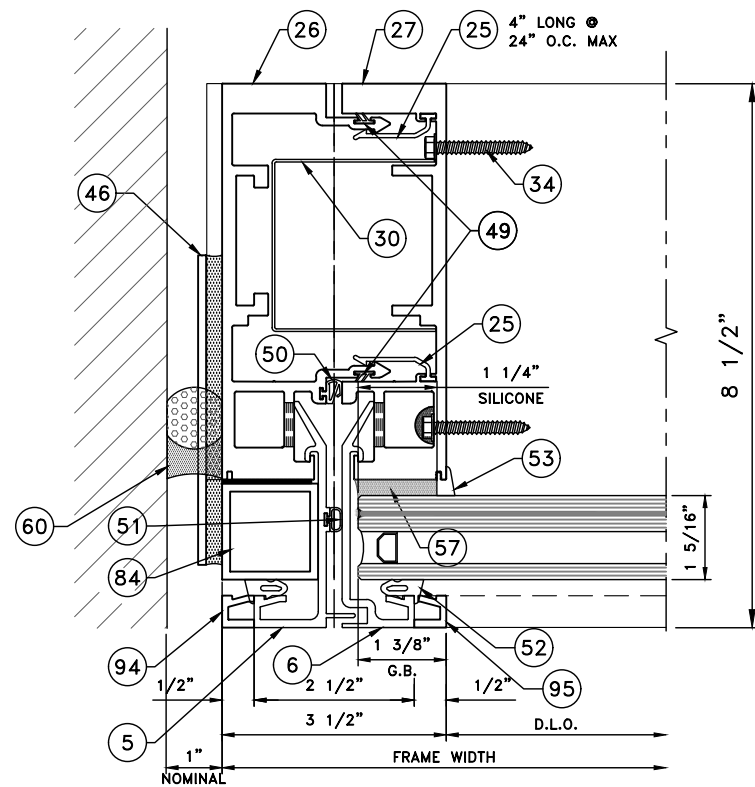


F DETAIL
D1

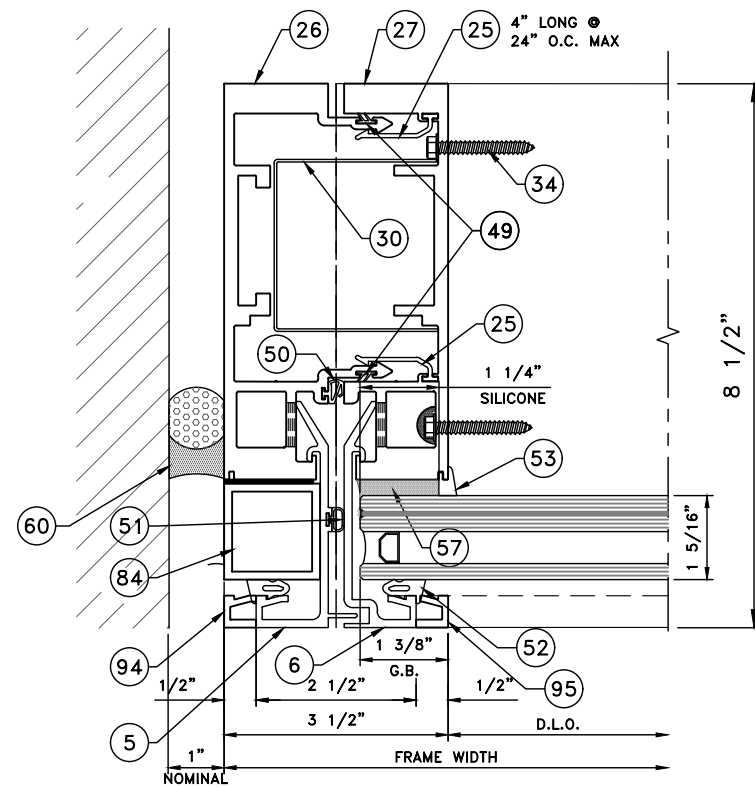
	T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)	REVISIONS				
		1	GLASS REVISION	08-28-24		
			2	DEEP MULLION ADDED	06-18-26	
			3			
			4			
			5			
		DRAWN BY: HG				
	DATE: 02/14/2024					
	T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)					
	CT WINDOWS					
	d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES					
	9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824					
	(407) 857-9237					



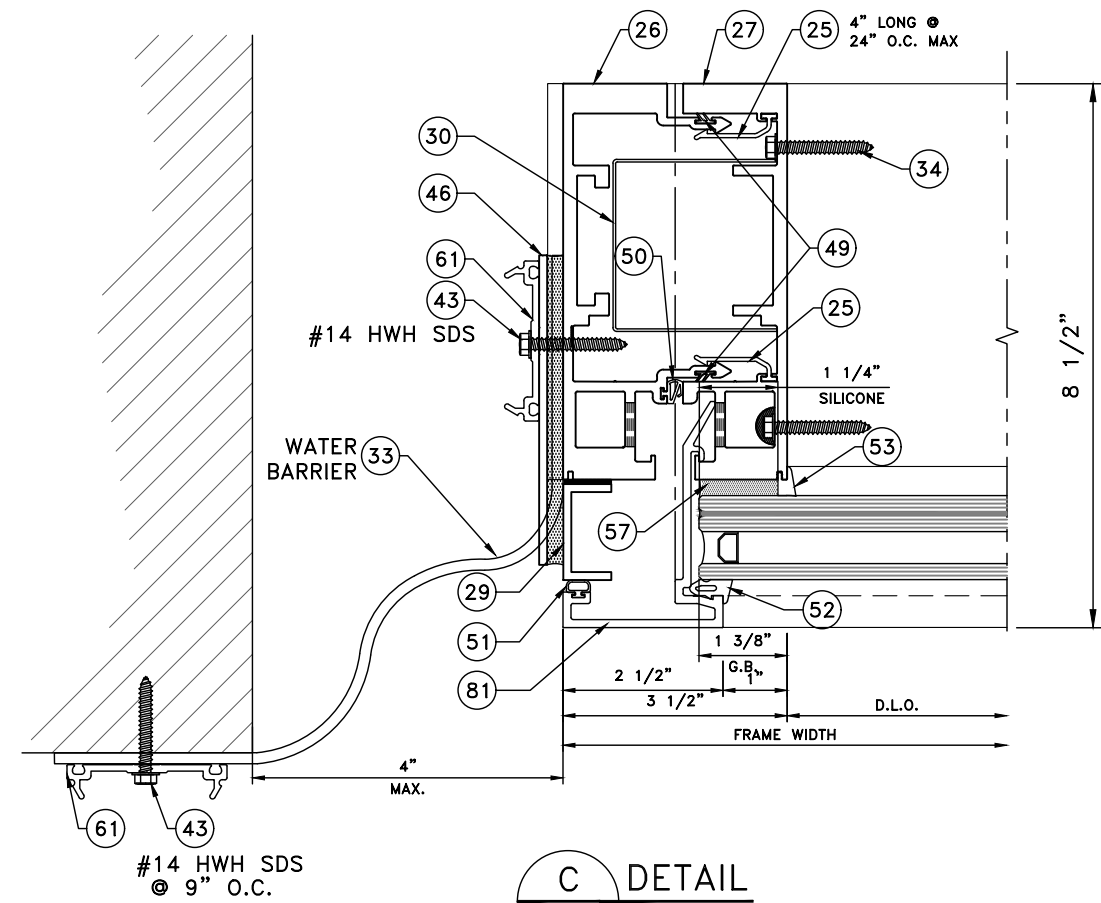
SEAL:	SCOTT WALTERS FL PE# 62354
	WALTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982
D1	
DRAWING NO.	AAT2-24
SHEET NO.	9 of 46



A
D2

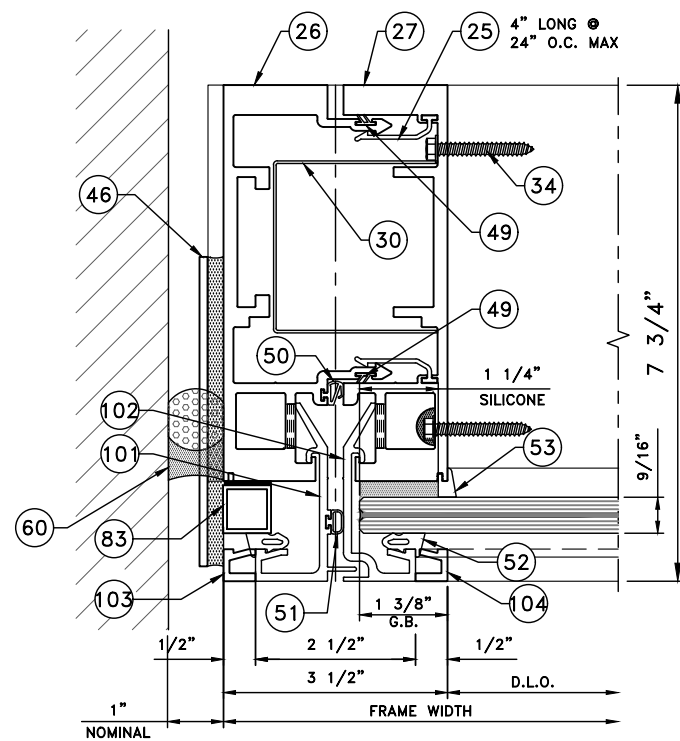


B DETAIL
D2

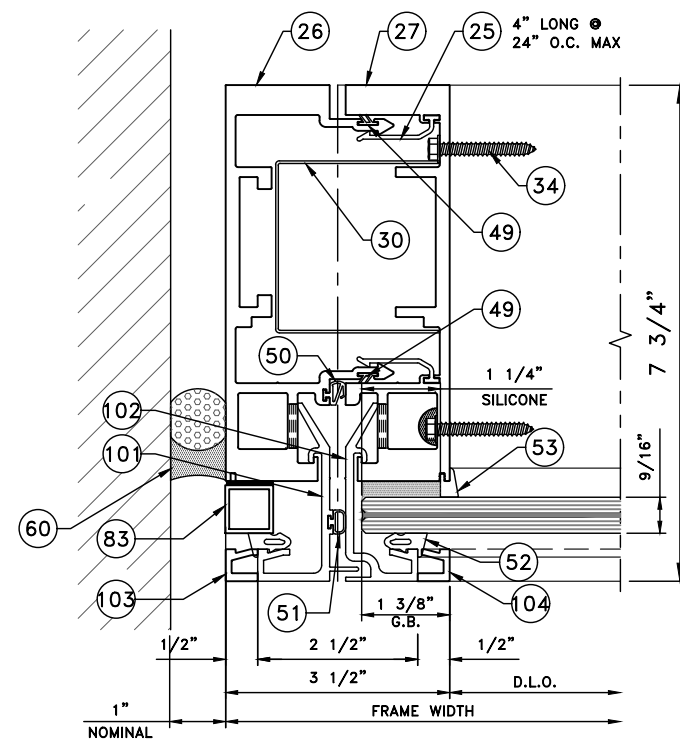


C
D2

DETAIL
T850A



 **DETAIL**



 DETAIL

DRAWN BY: HG		REVISIONS	
1	GLASS REVISION	08-28-24	
2	DEEP MULLION ADDED	06-18-26	
3			
4			
5			
DATE: 02/14/2024			

T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES
 9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824
 (407) 857-9237



SEAL:
SCOTT WOLTERS
FL PE# 62354

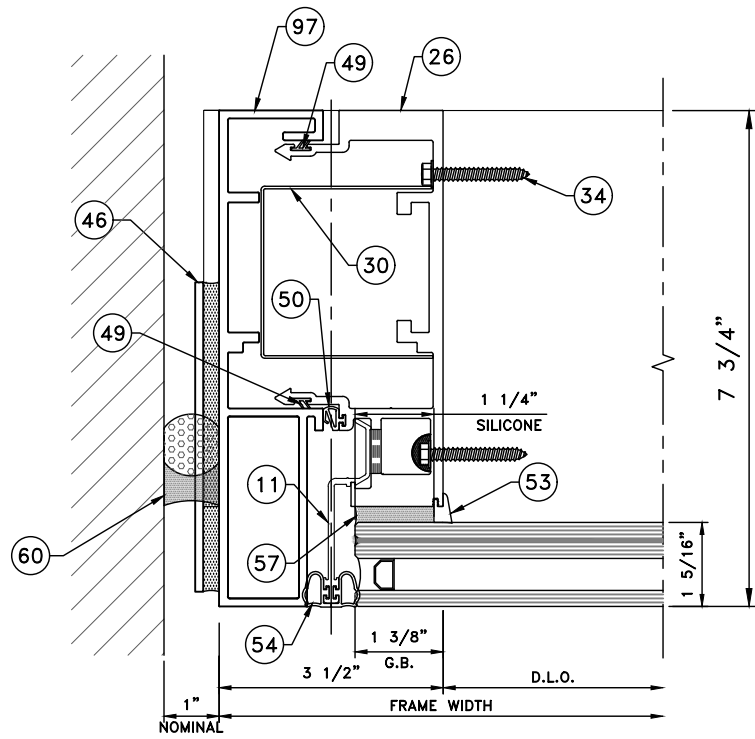
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

D2

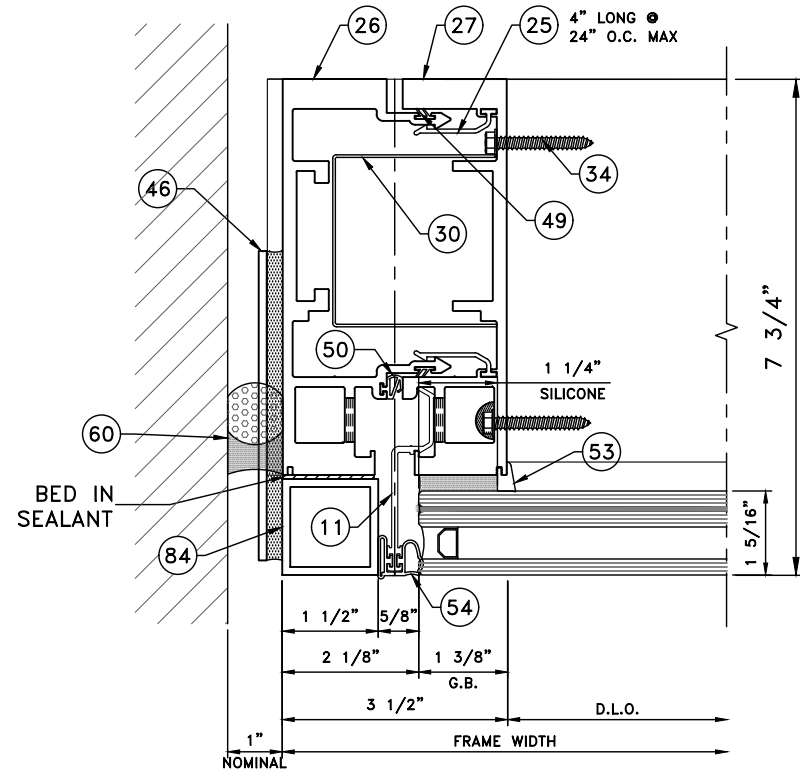
DRAWING NO.

SHEET NO.

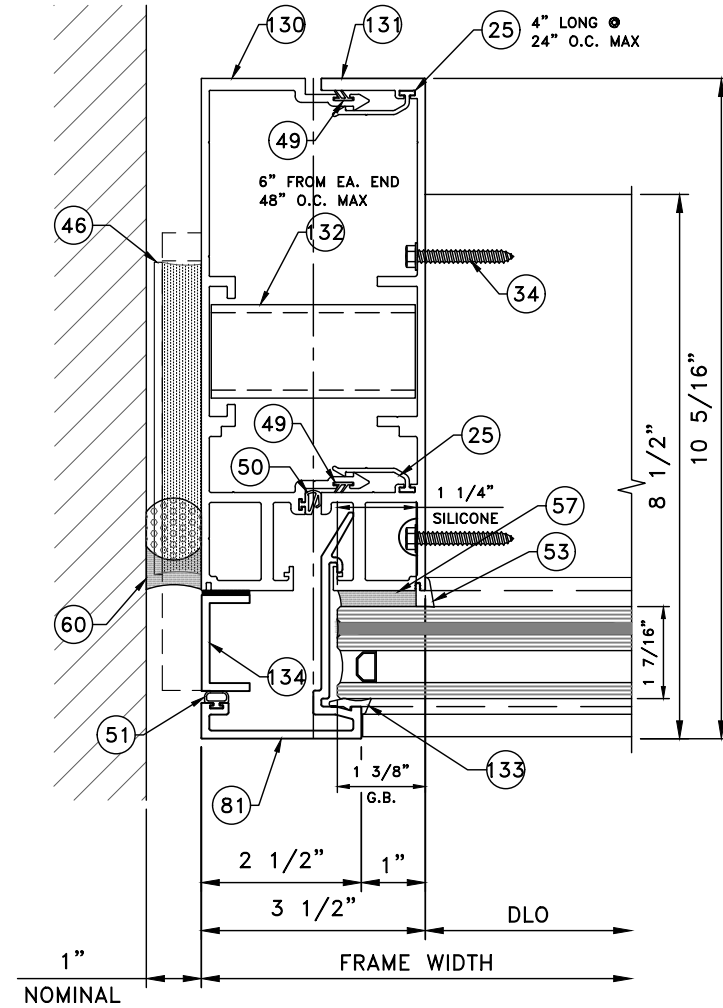
10 of 46



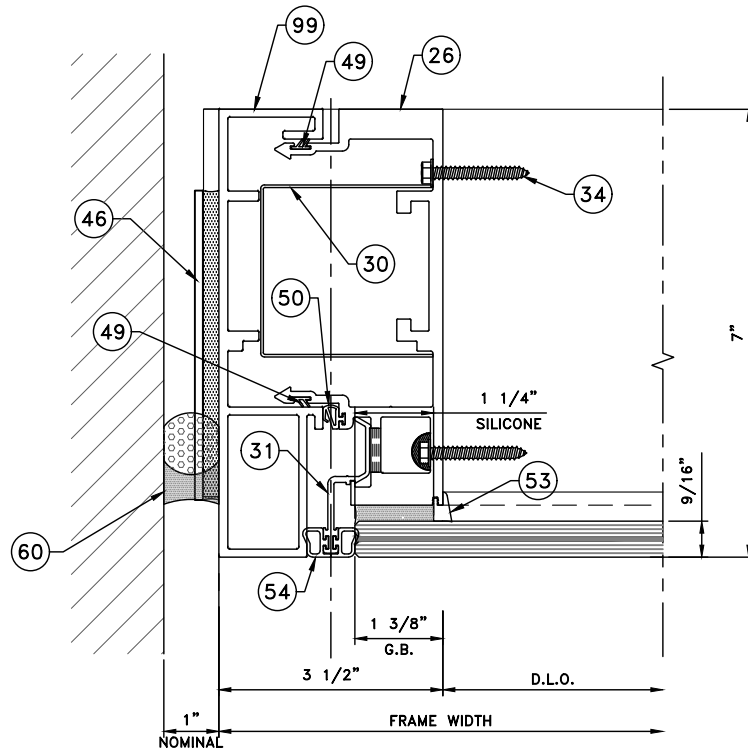
A
D3
DETAIL



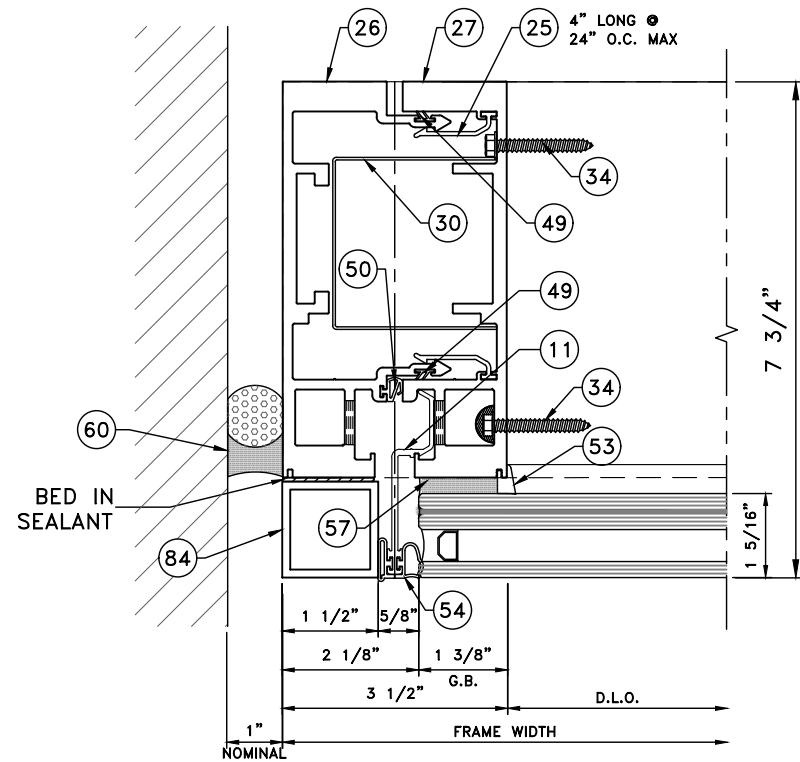
B
D3
DETAIL



E
D3
DETAIL



C
D3
DETAIL

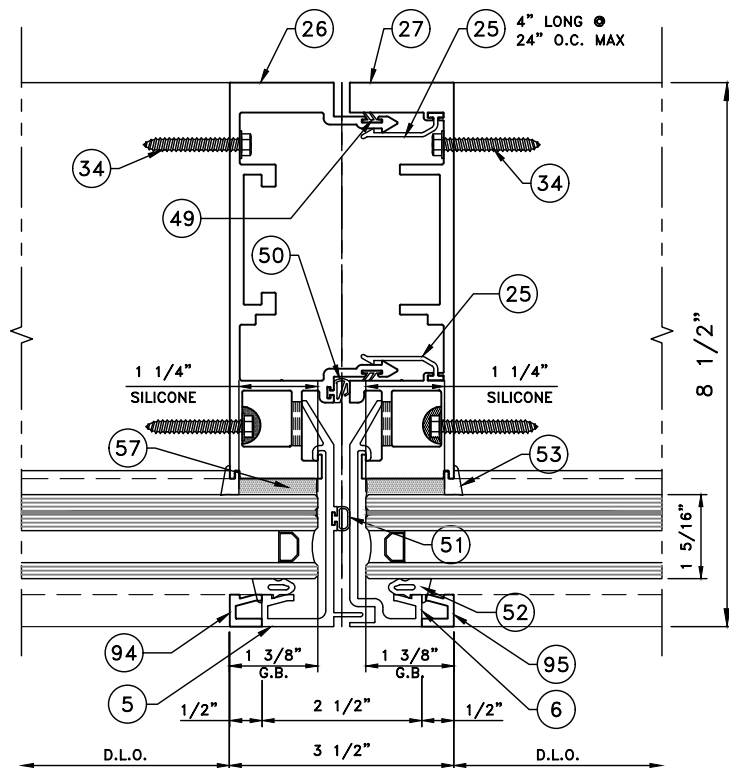


D
D3
DETAIL

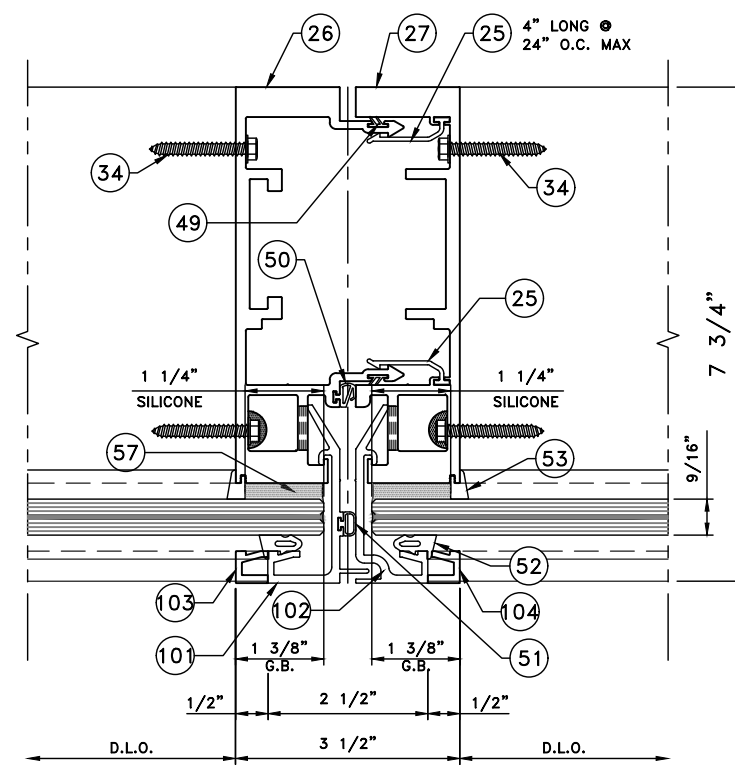
T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)	REVISIONS	
	1	GLASS REVISION
	2	DEEP MULLION ADDED
	3	
	4	
	5	
DRAWN BY: HG		
DATE: 02/14/2024		
CT WINDOWS		
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES		
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824		
(407) 857-9237		



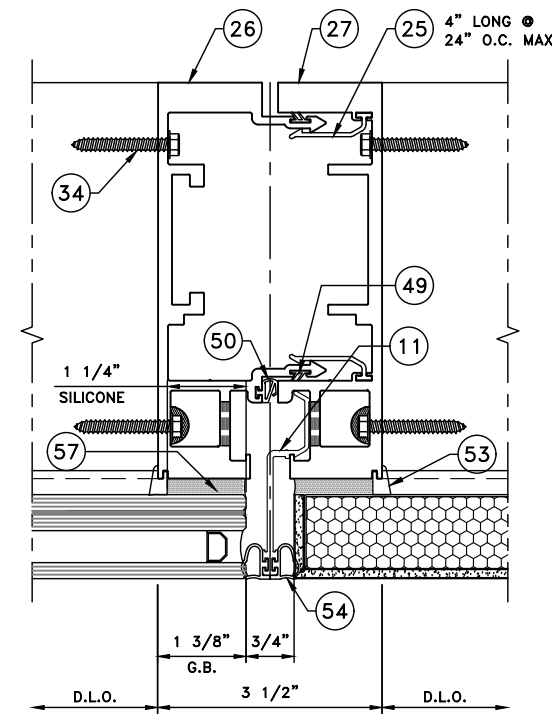
SCOTT WALTERS FL PE# 62354	SEAL:
WALTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
D3	
DRAWING NO. AAT2-24	
SHEET NO. 11 of 46	



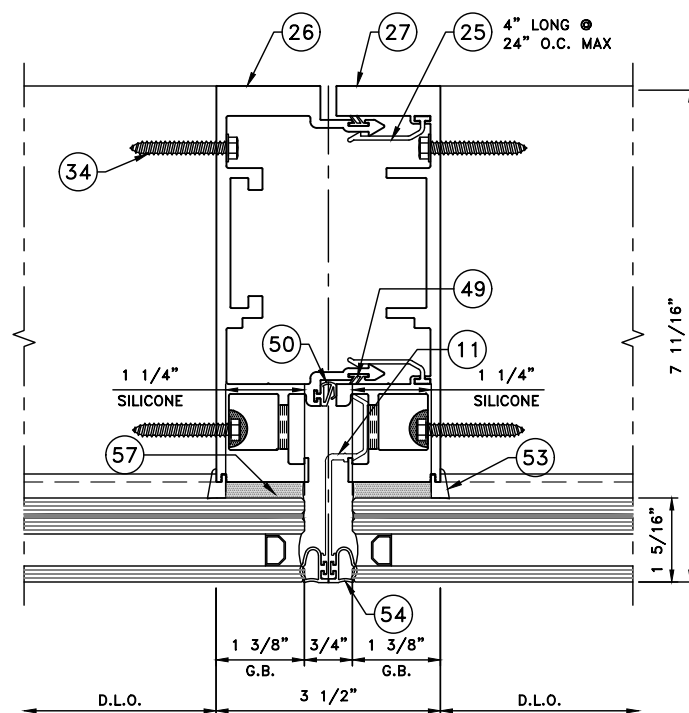
A DETAIL
D4



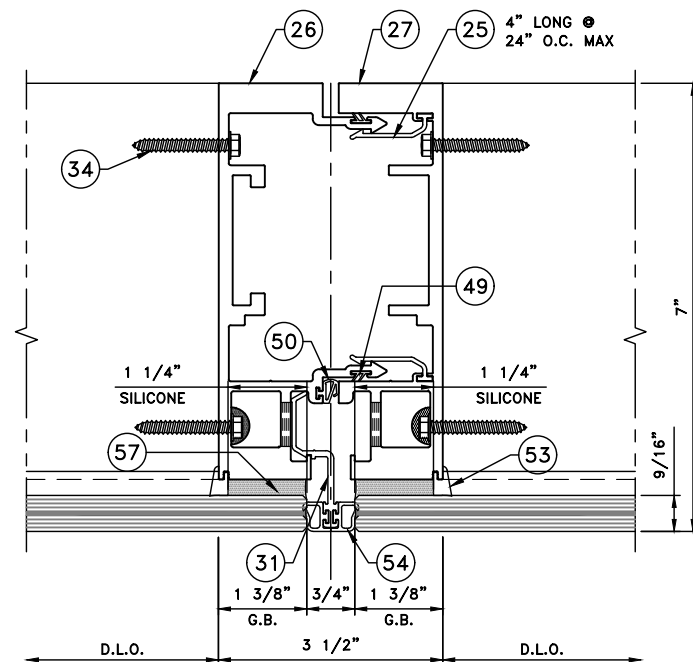
B DETAIL
D4



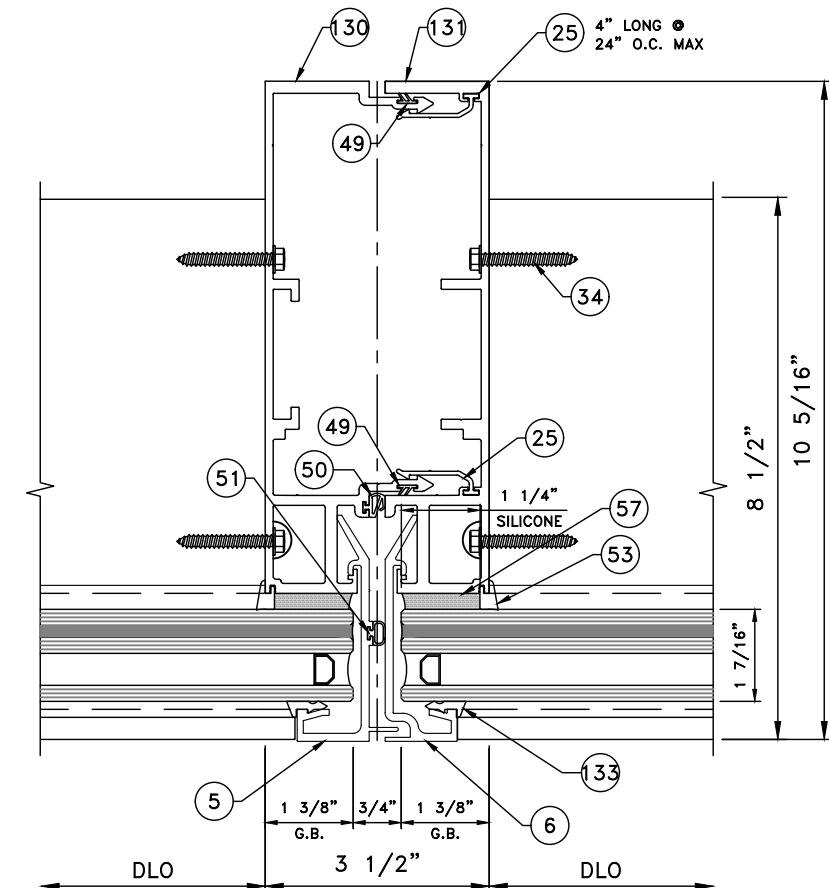
C
D4



D
DETAIL
D4



E
D4



F
D4

DRAWN BY: HG		REVISIONS	
1	GLASS REVISION	08-28-24	
2	DEEP MULLION ADDED	06-18-26	
3			
4			
5			
DATE: 02/14/2024			

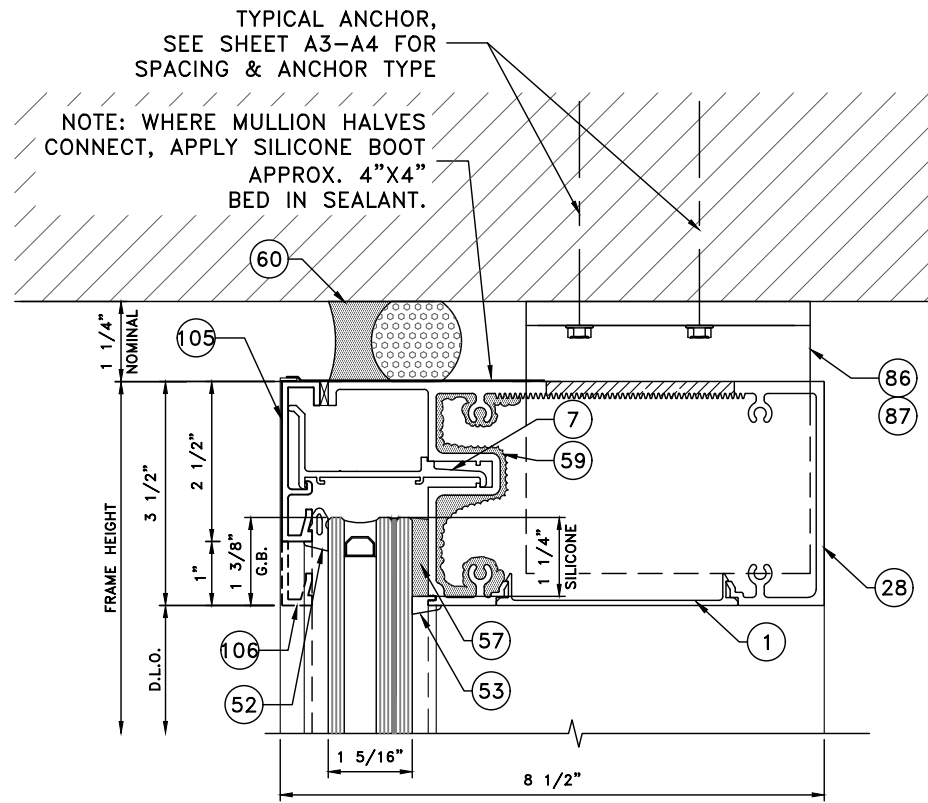
T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

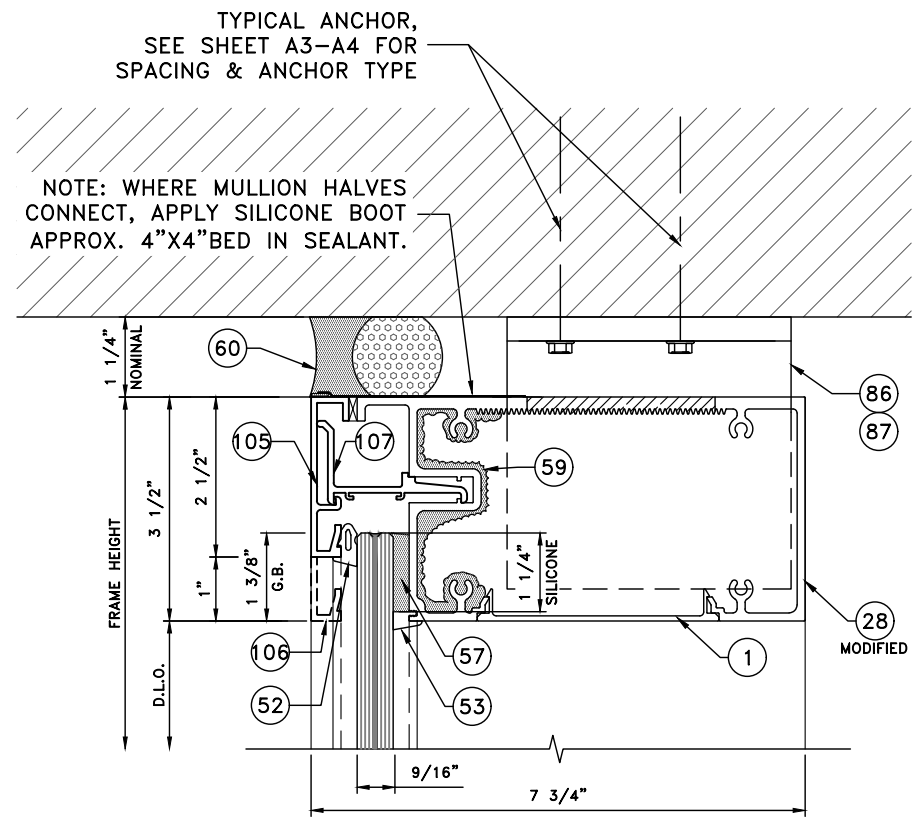
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES
 9195 BOGEY CREEK ROAD, ORLANDO, FLORIDA 32824
 (407) 857-9237



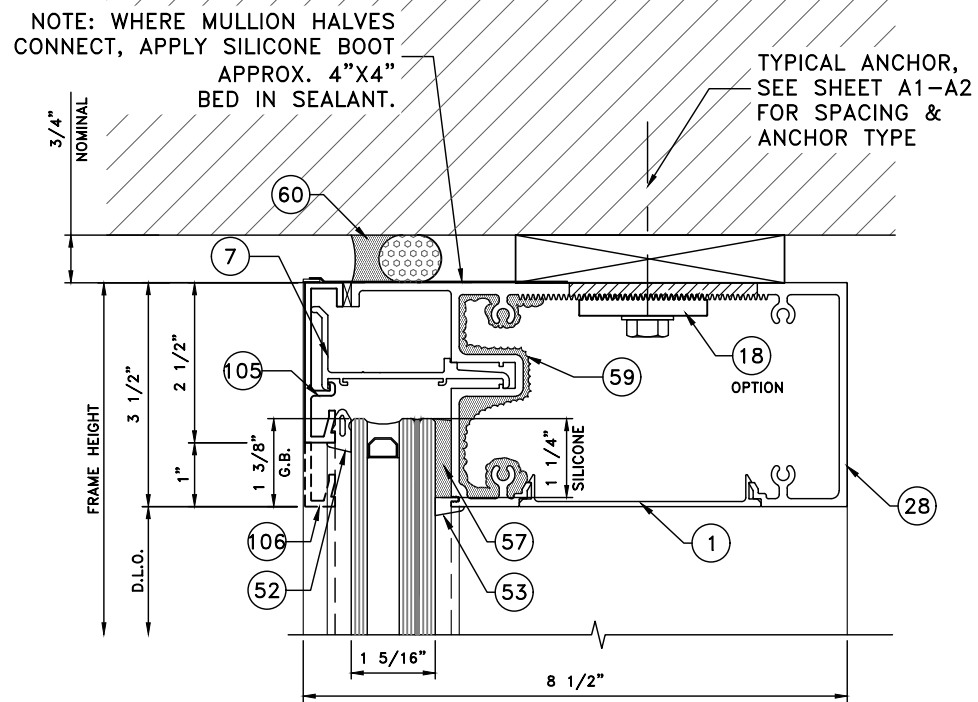
SEAL: SCOTT WOLTERS FL PE# 62354	WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX:(561)225-1982
D4	
DRAWING NO.	AAT2-24
SHEET NO.	12 of 46



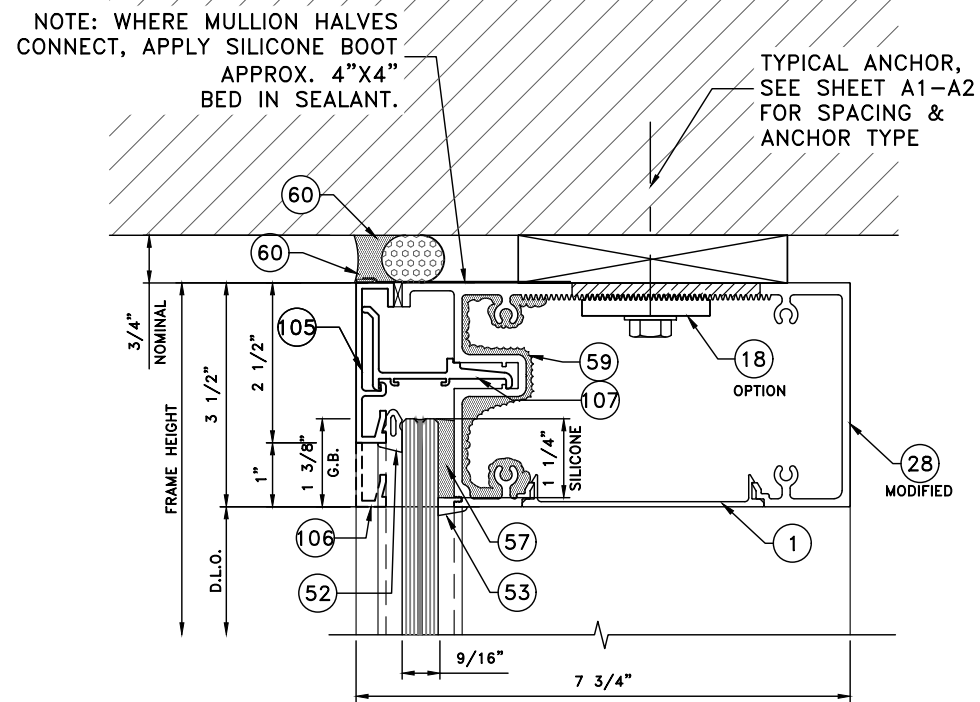
A
D5
DETAIL



B
D5
DETAIL



C
D5
DETAIL

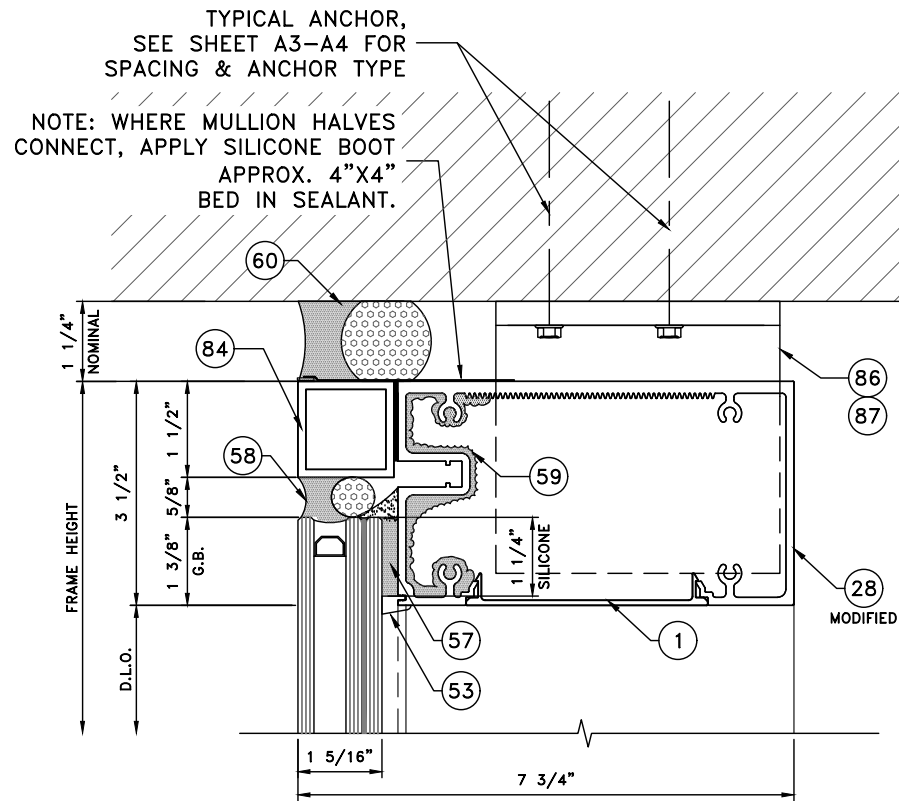


D
D5
DETAIL

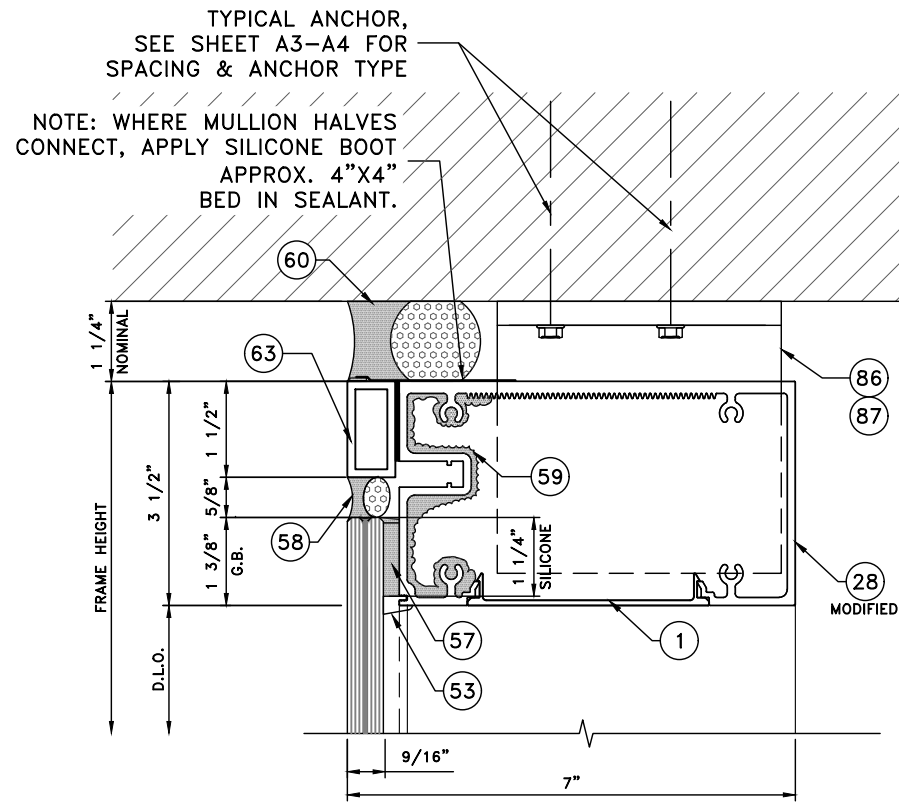
REVISIONS		T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)	
GLASS	REVISION	CT WINDOWS	
1	08-28-24	d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES	
2	06-18-26	9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824	
3		(407) 857-9237	
4			
5			
DRAWN BY: HG			
DATE: 02/14/2024			



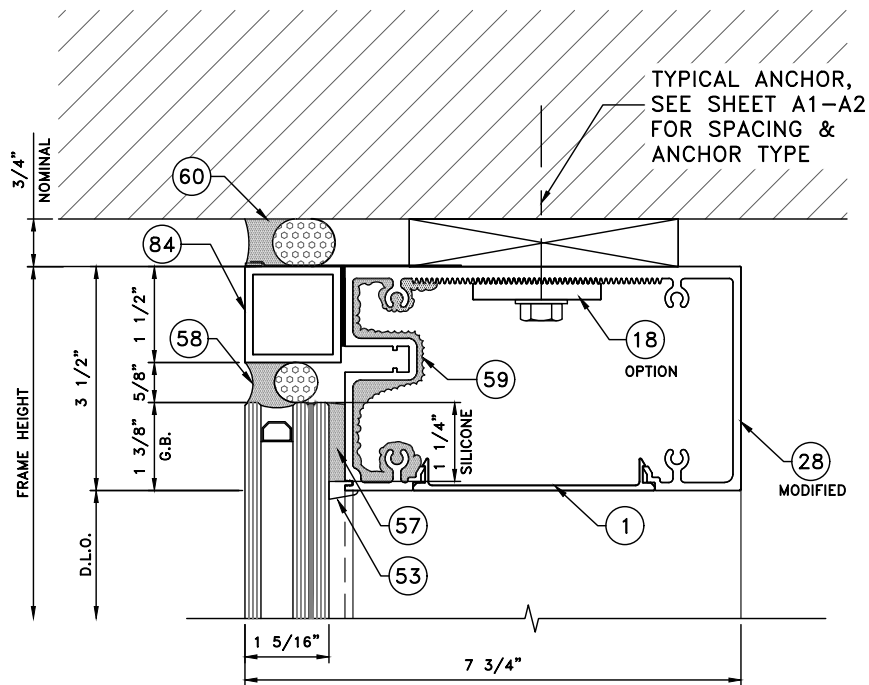
SCOTT WOLTERS FL PE# 62354	SEAL:
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
D5	
DRAWING NO. AAT2-24	
SHEET NO. 13 of 46	



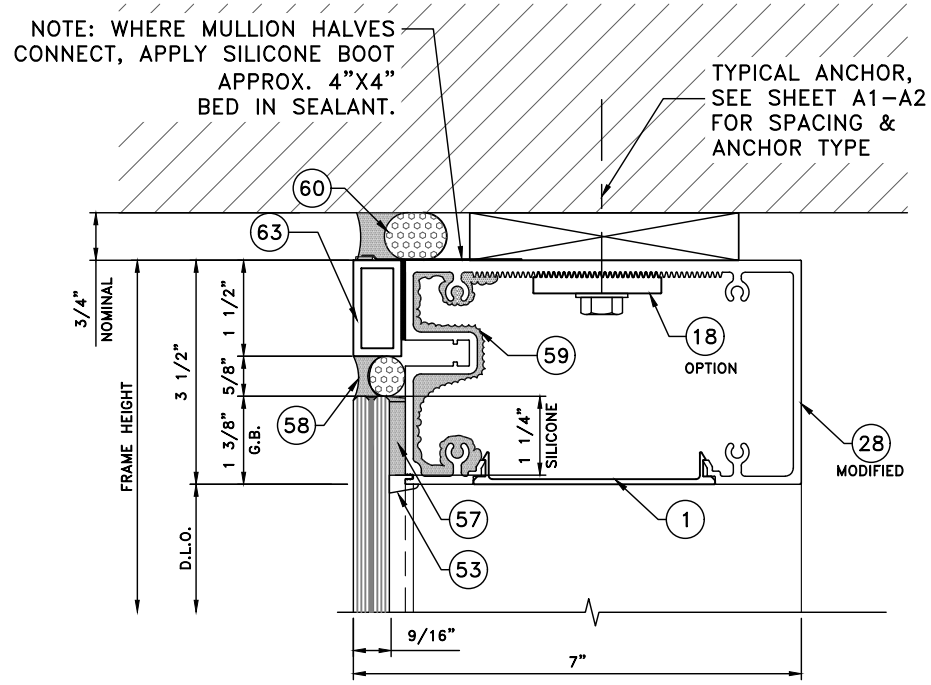
A
D6
DETAIL



B
D6
DETAIL



C
D6
DETAIL

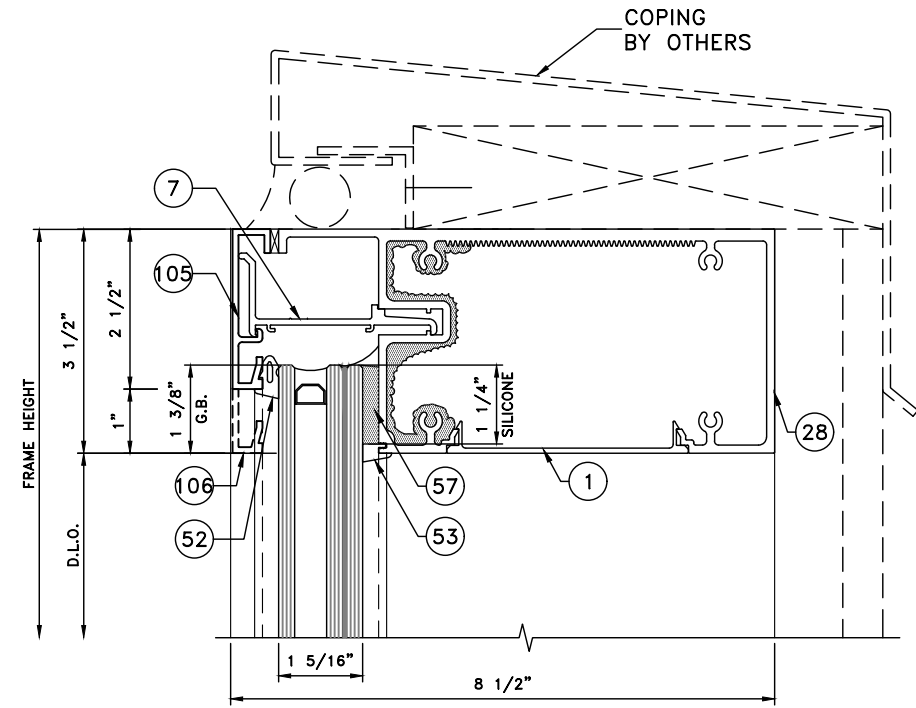


D
D6
DETAIL

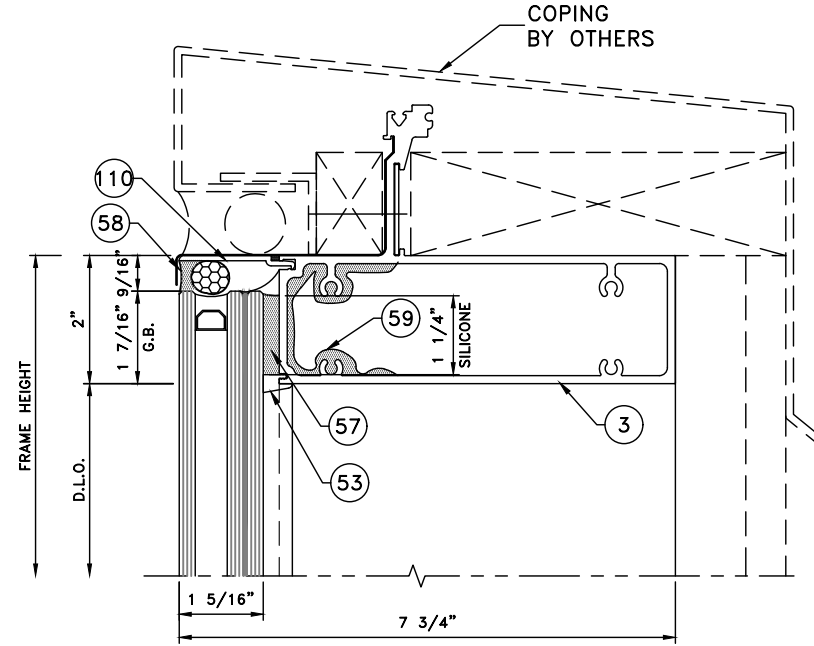
REVISIONS		T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)	
GLASS	REVISION	CT WINDOWS	
1	08-28-24	d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES	
2	06-18-26	9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824	
3		(407) 857-9237	
4			
5			
DRAWN BY: HG			
DATE: 02/14/2024			



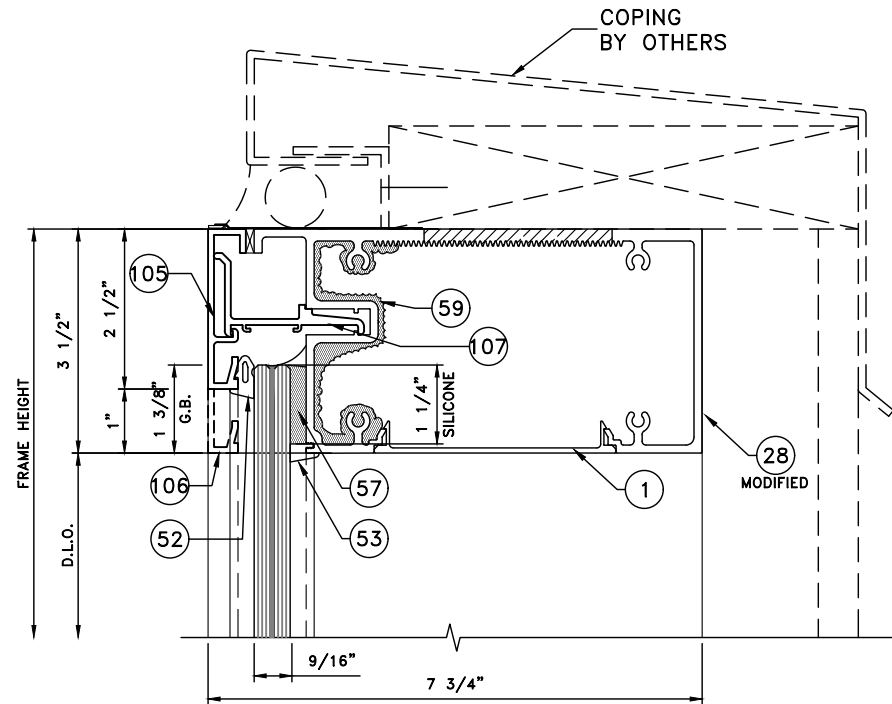
SCOTT WOLTERS FL PE# 62354	SEAL:
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
D6	
DRAWING NO. AAT2-24	
SHEET NO. 14 of 46	



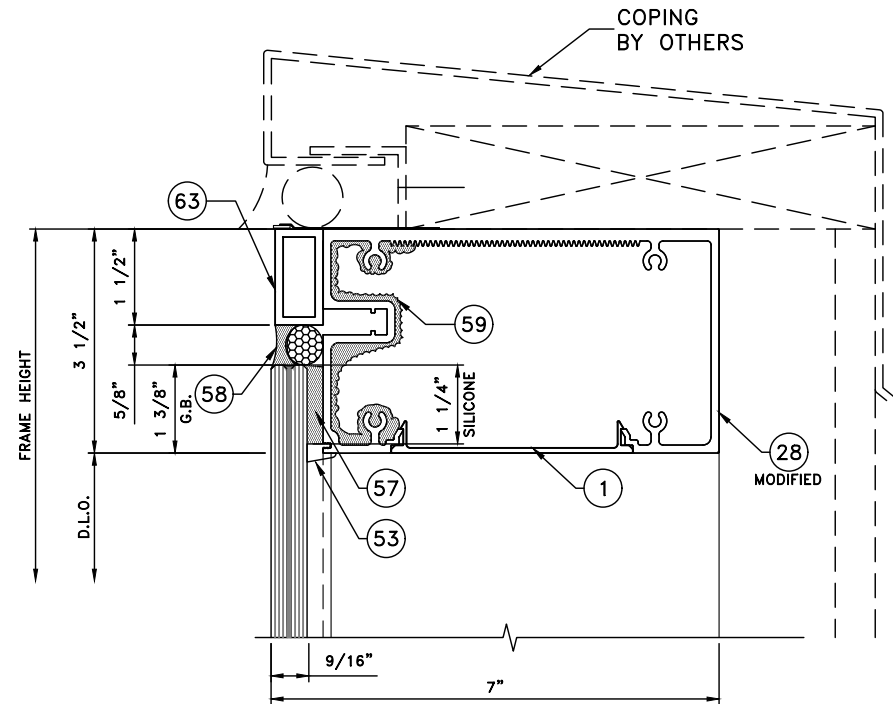
A
D7



B
D7



C
D7

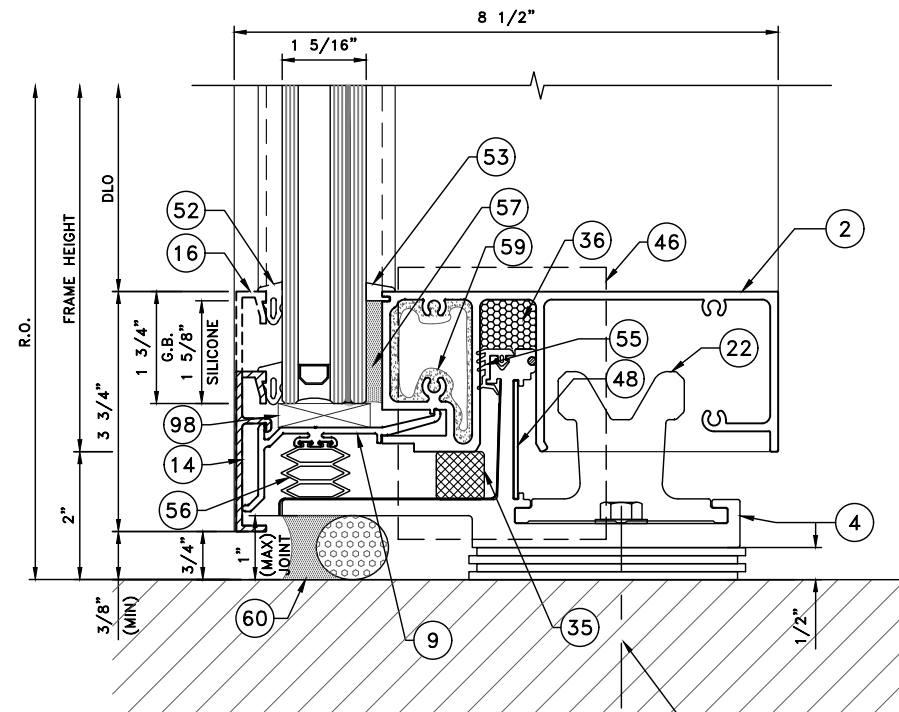


D
D7

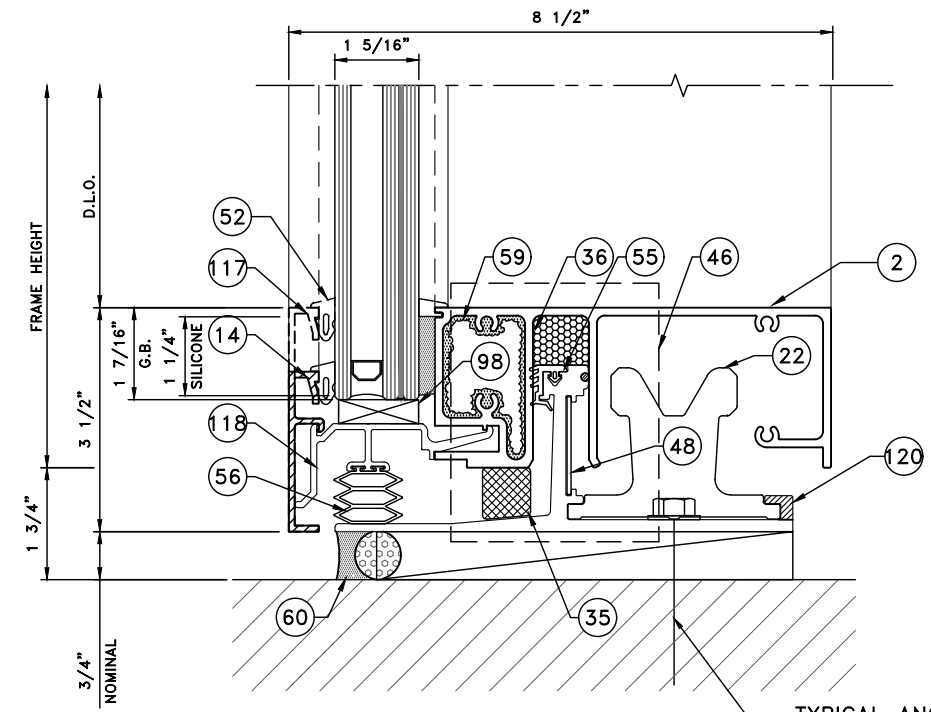
T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		REVISIONS	
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES		1	GLASS REVISION
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824		2	DEEP MULLION ADDED
(407) 857-9237		3	
		4	
		5	
DATE: 02/14/2024		DRAWN BY: HG	
		08-28-24	
		06-18-26	



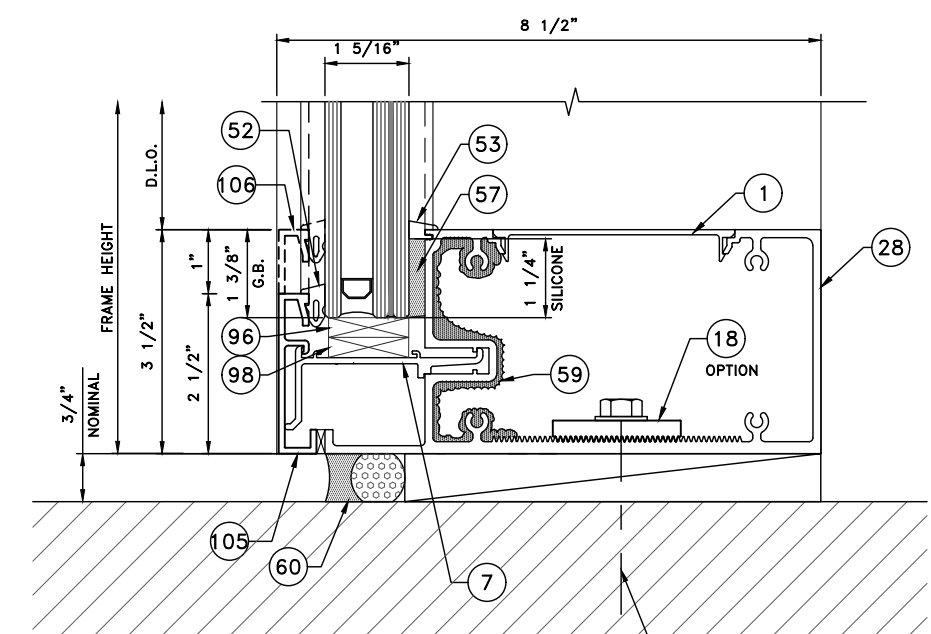
SCOTT WOLTERS FL PE# 62354	SEAL:
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
D7	
DRAWING NO. AAT2-24	
SHEET NO. 15 of 46	



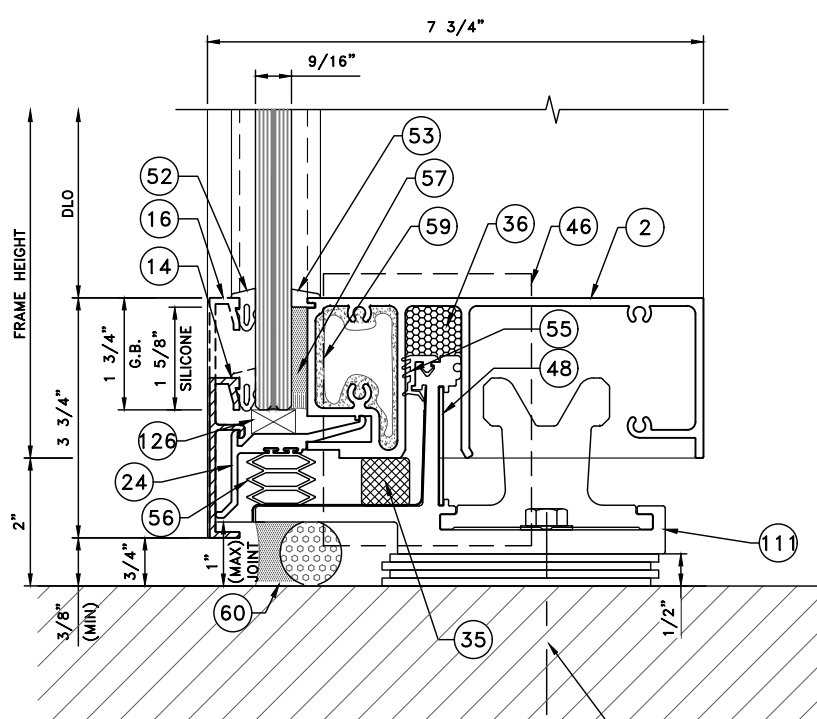
A DETAIL
D8



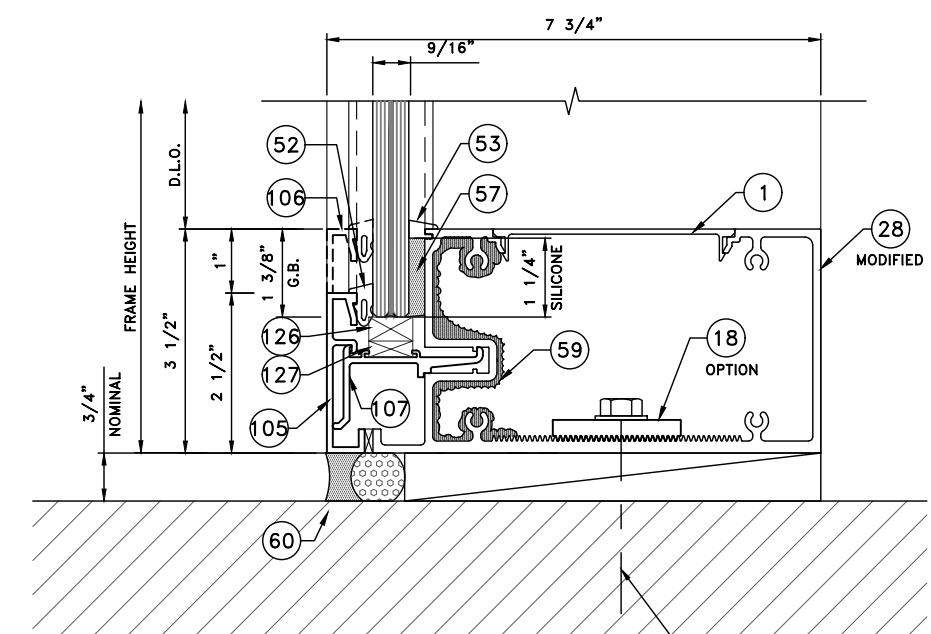
B DETAIL
D8



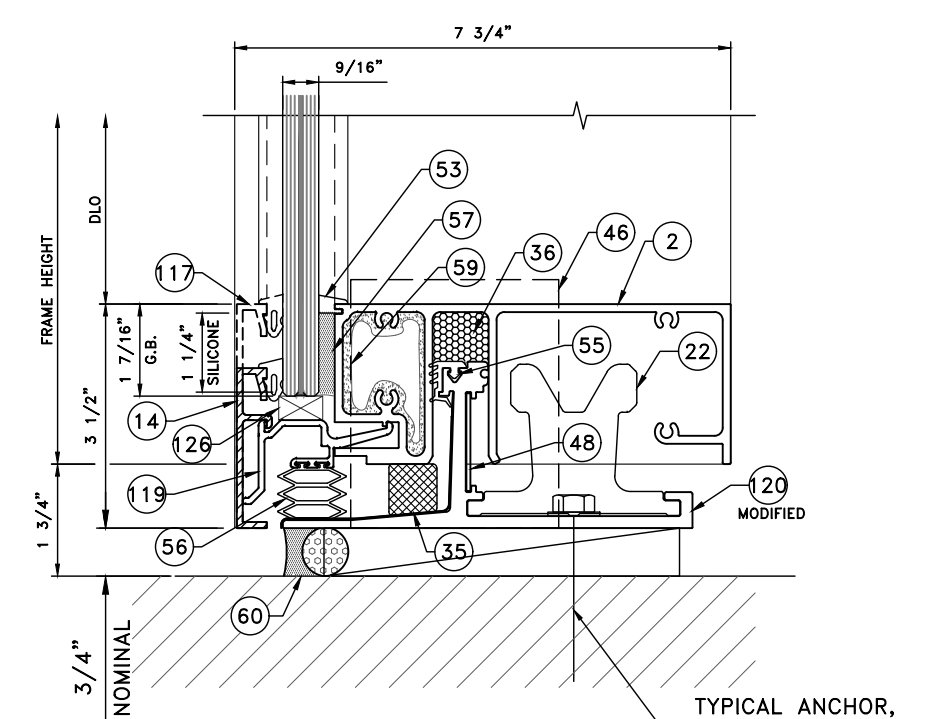
C DETAIL
D8



D DETAIL
D8

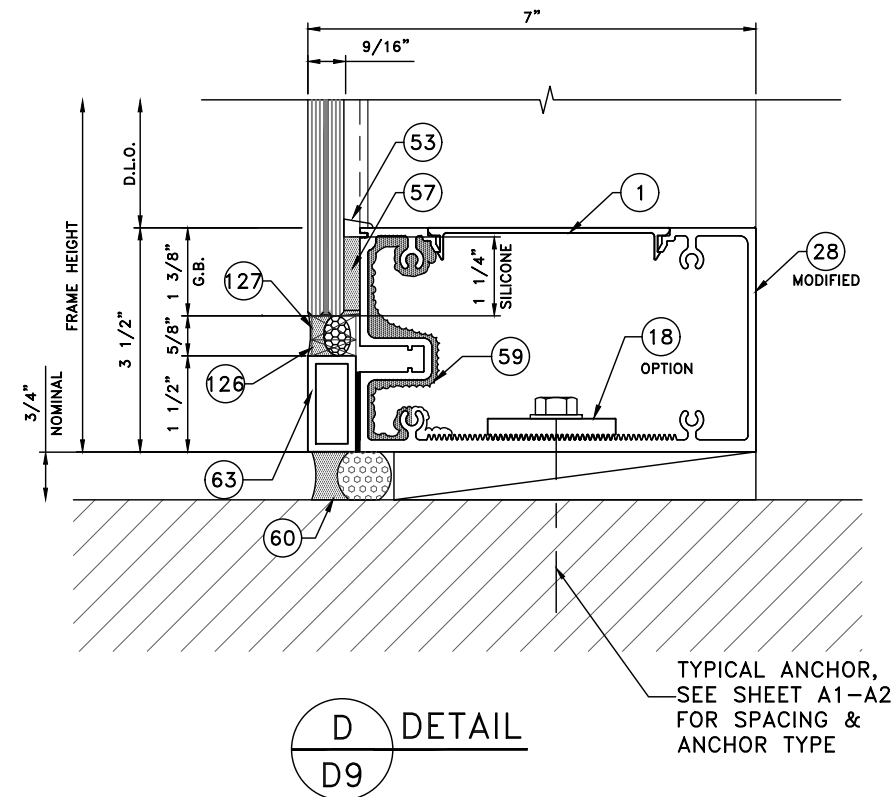
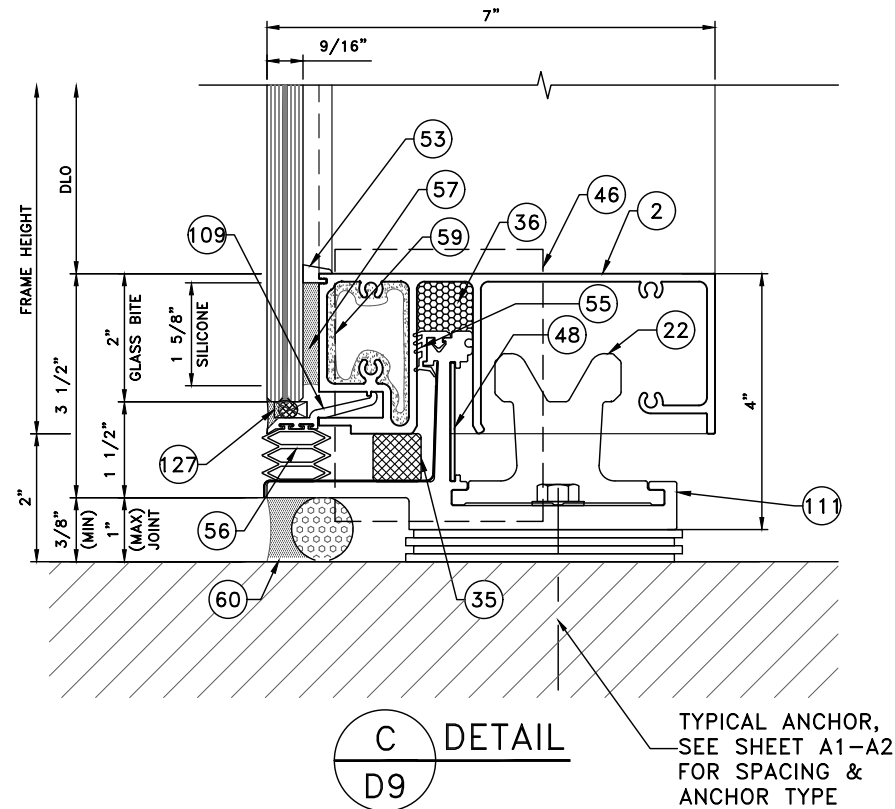
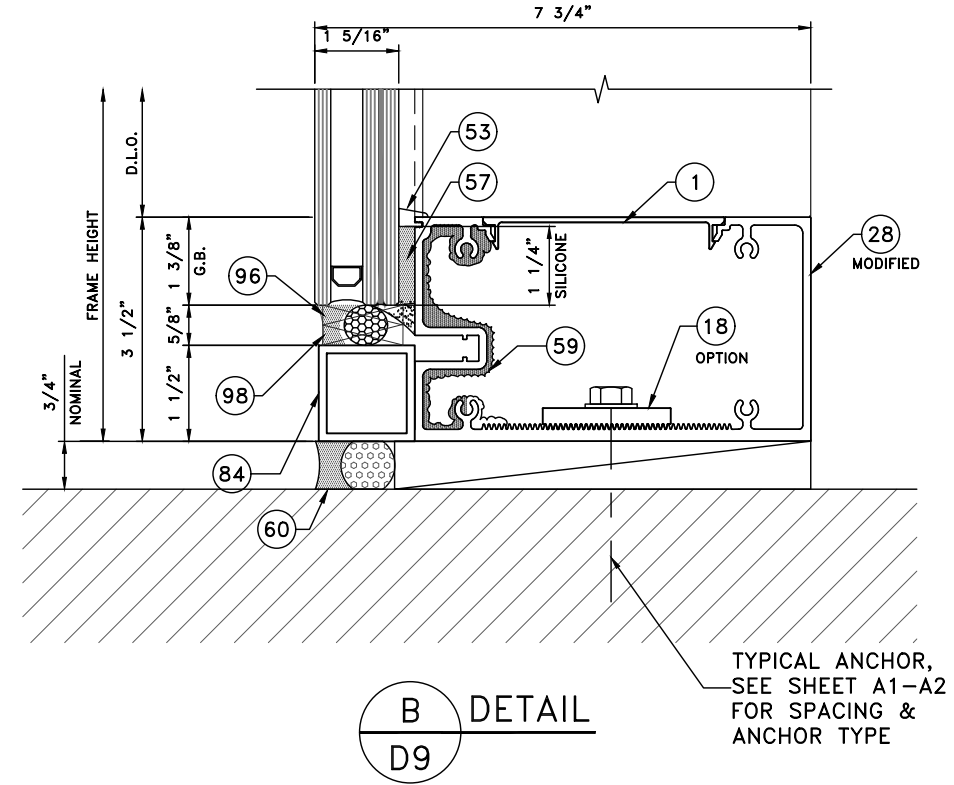
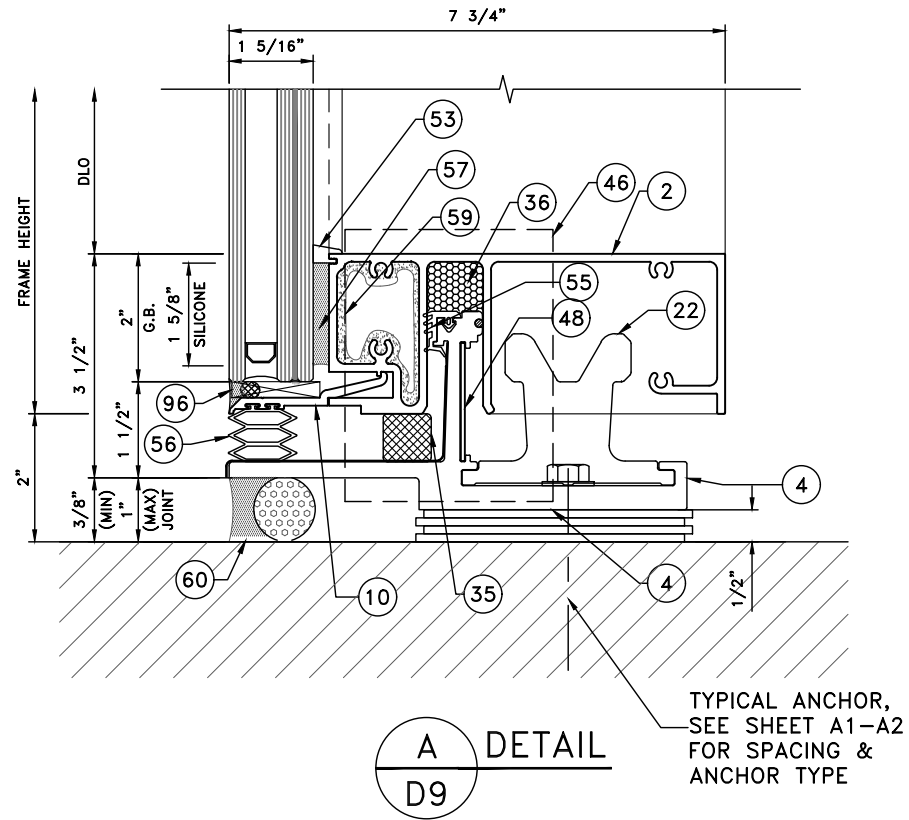


E DETAIL
D8



F DETAIL
D8

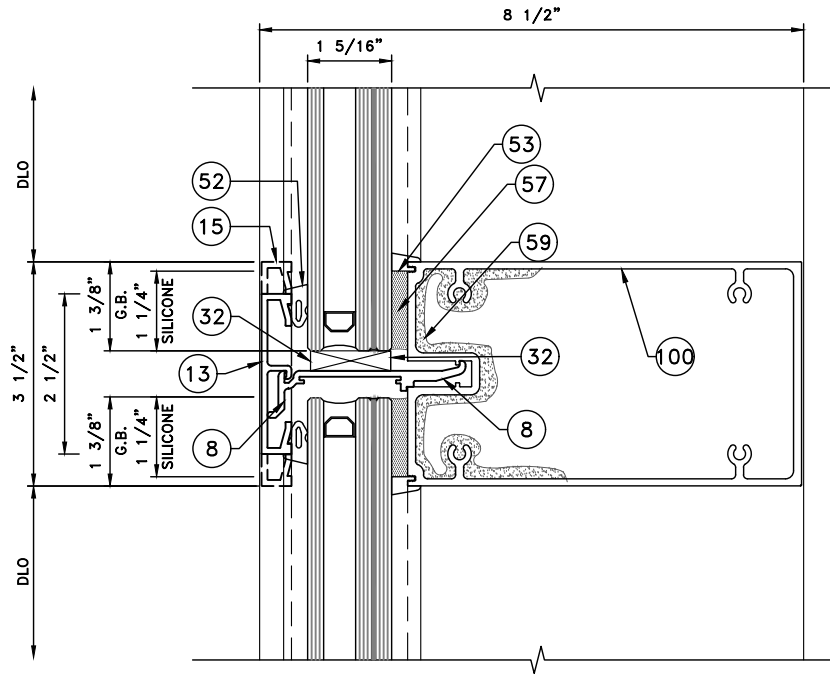
T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		REVISIONS	
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES		GLASS REVISION	08-28-24
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824		DEEP MULLION ADDED	06-18-26
(407) 857-9237		1	2
		3	4
		5	
DRAWN BY: HG		DATE: 02/14/2024	
SCOTT WOLTERS FL PE# 62354		SEAL:	
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982		D8	
DRAWING NO.		AAT2-24	
SHEET NO.		16 of 46	



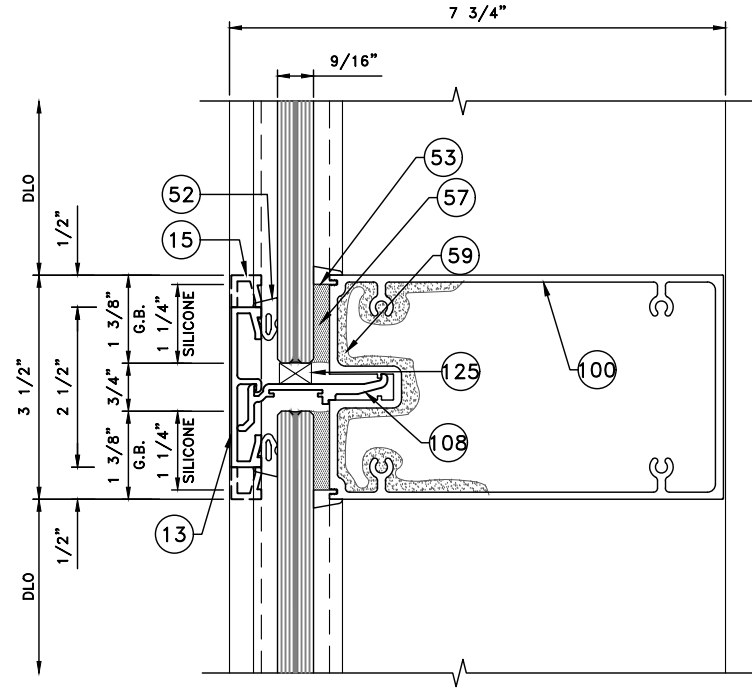
REVISIONS		T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)	
GLASS REVISION	08-28-24	CT WINDOWS	
1	2	d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES	
DEEP MULLION ADDED	06-18-26	9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824	
3	4	(407) 857-9237	
5			
DRAWN BY: HG			
DATE: 02/14/2024			



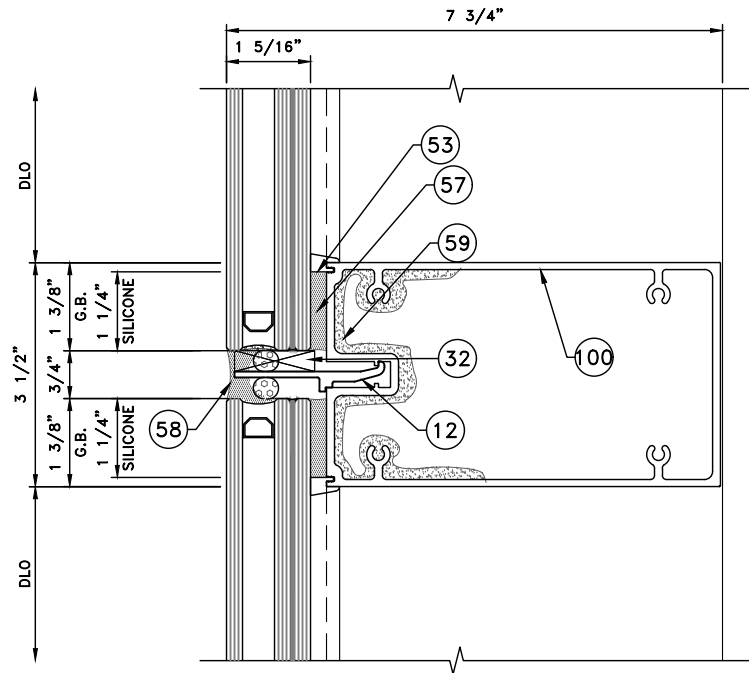
SEAL:	SCOTT WOLTERS FL PE# 62354
	WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982
D9	
DRAWING NO.	AAT2-24
SHEET NO.	17 of 46



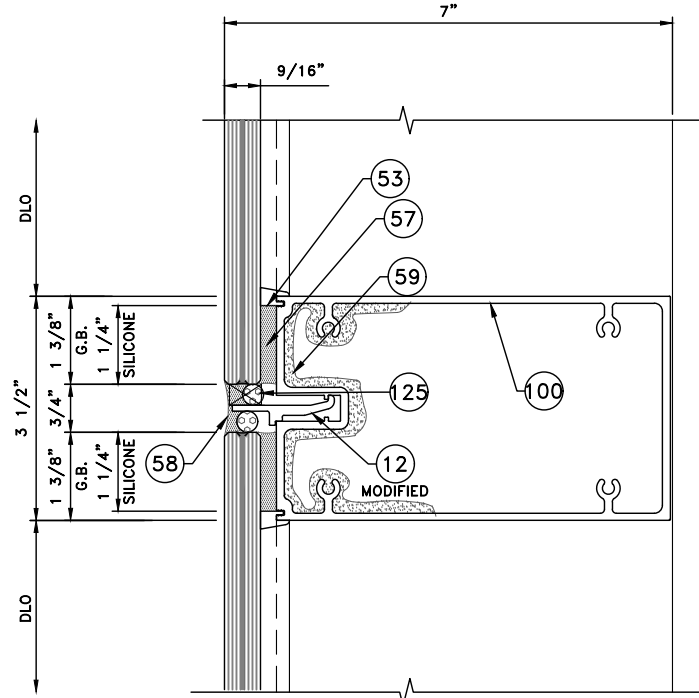
A
D10



B
D10



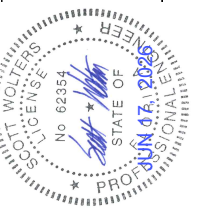
C
D10



D
D10

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982



T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES

9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824

(407) 857-9237

REVISIONS	
1	GLASS REVISION
2	DEEP MULLION ADDED
3	
4	
5	

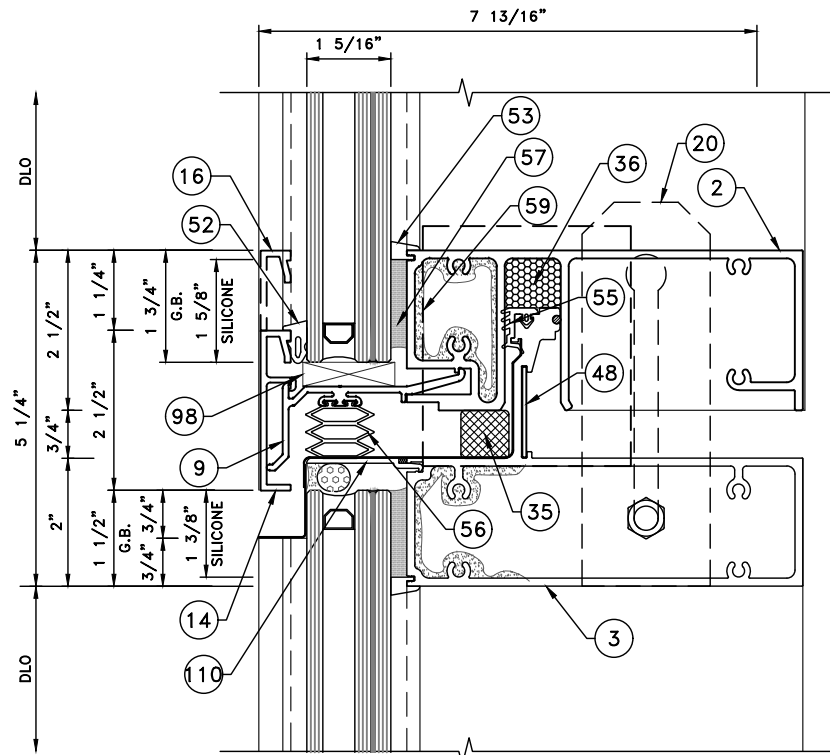
DRAWN BY: HG

DATE: 02/14/2024

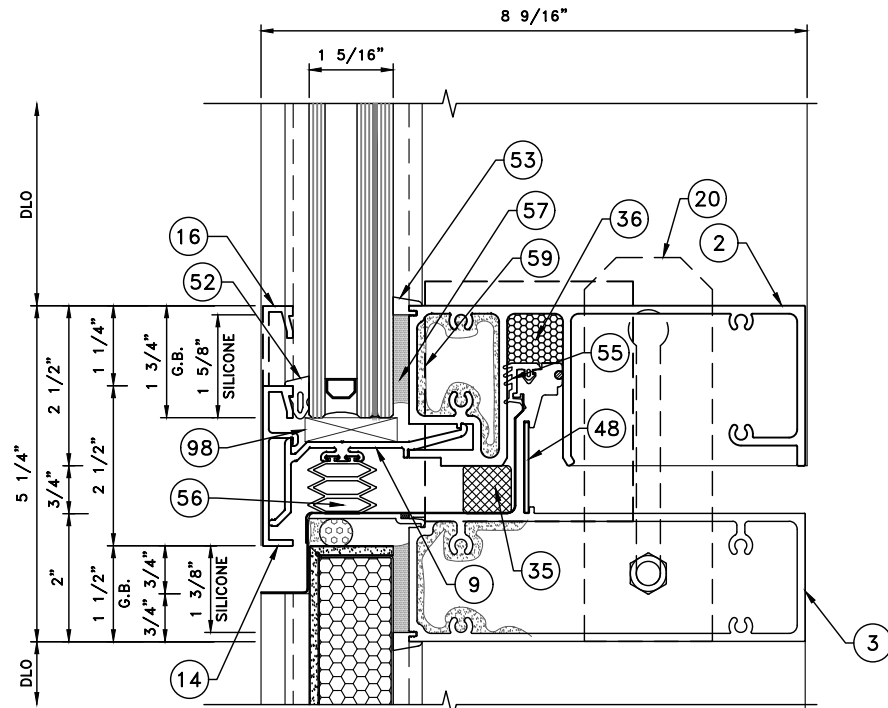
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DRAWING NO.
AAT2-24

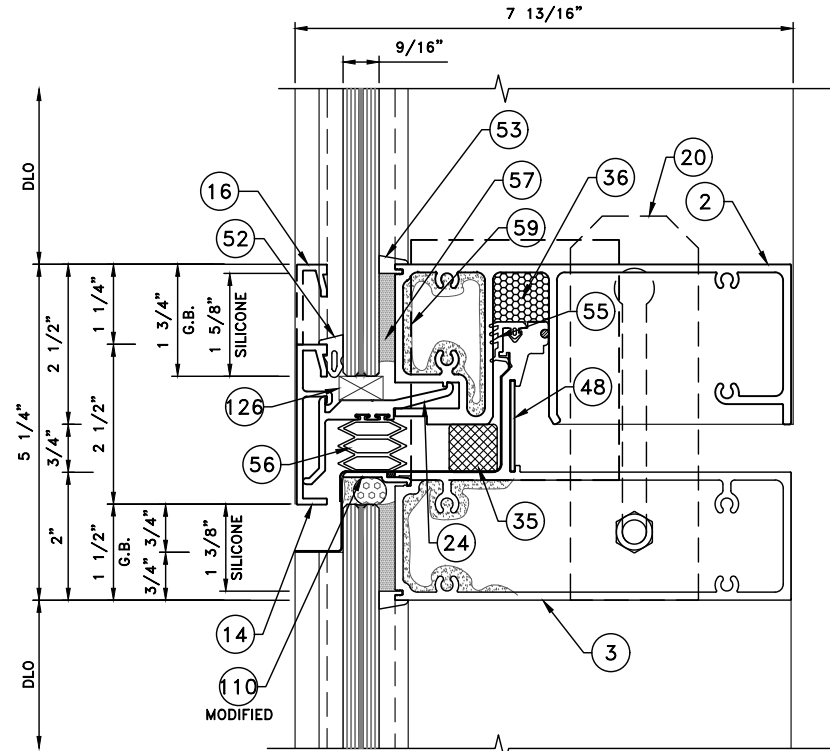
SHEET NO.
18 of 46



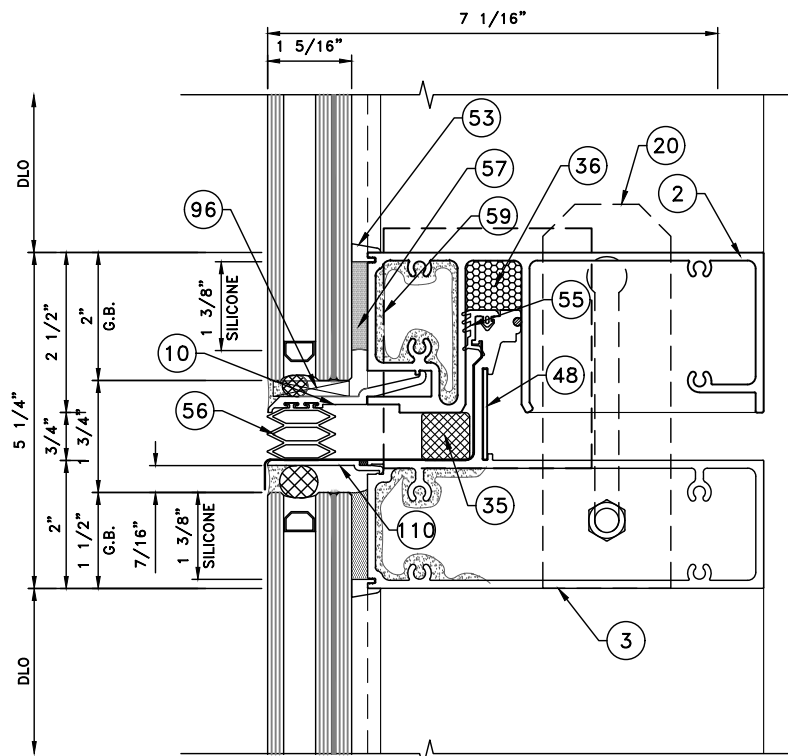
A
DETAIL
D11



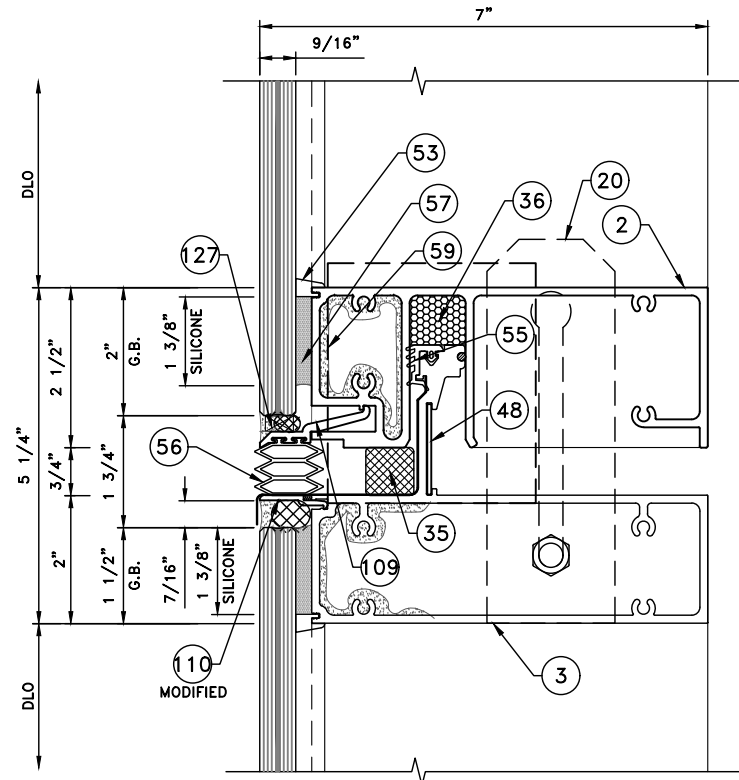
B
DETAIL
D11



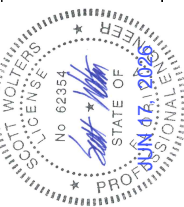
C
DETAIL
D11



D
DETAIL
D11

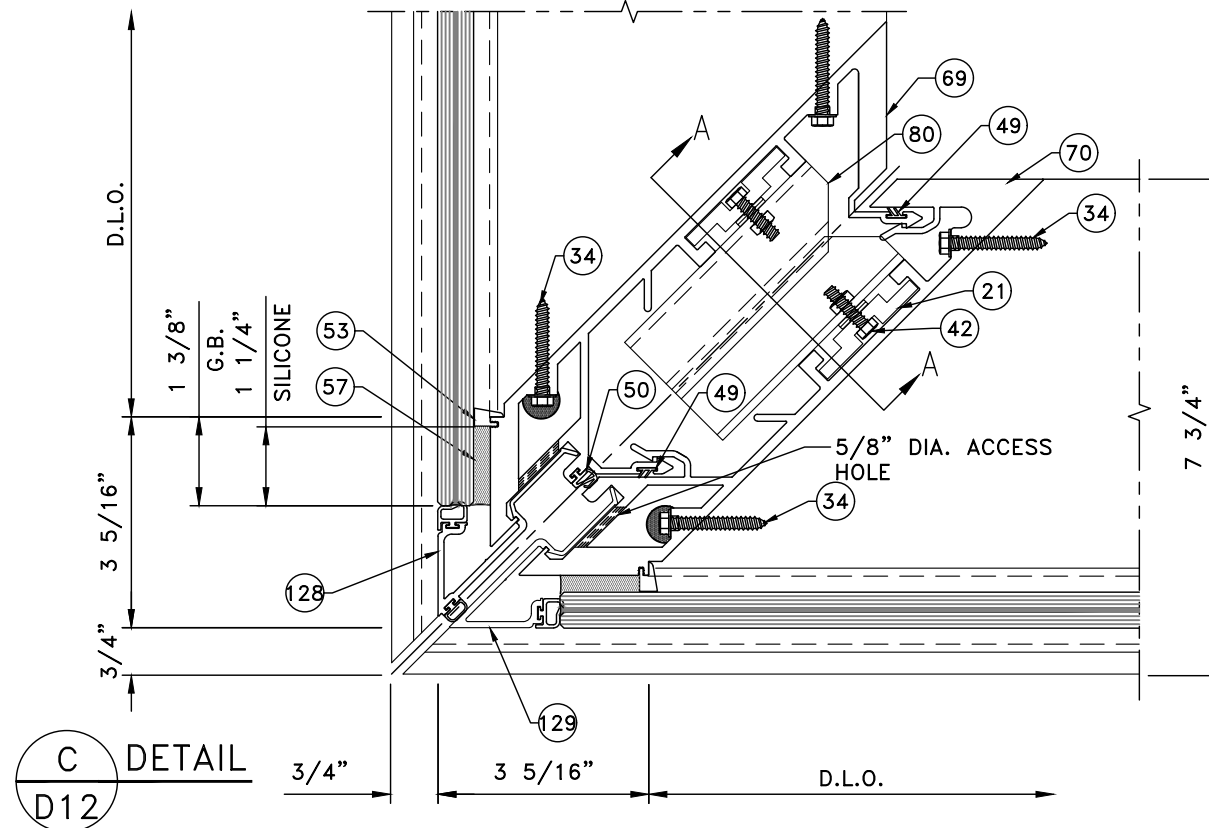
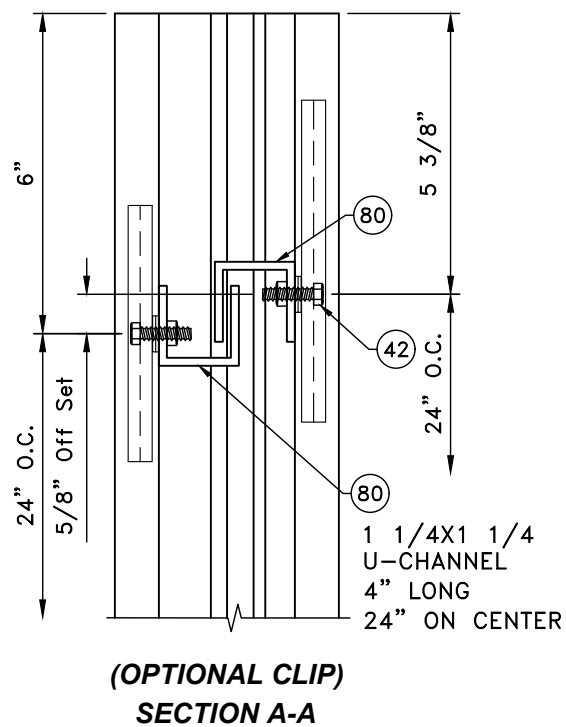
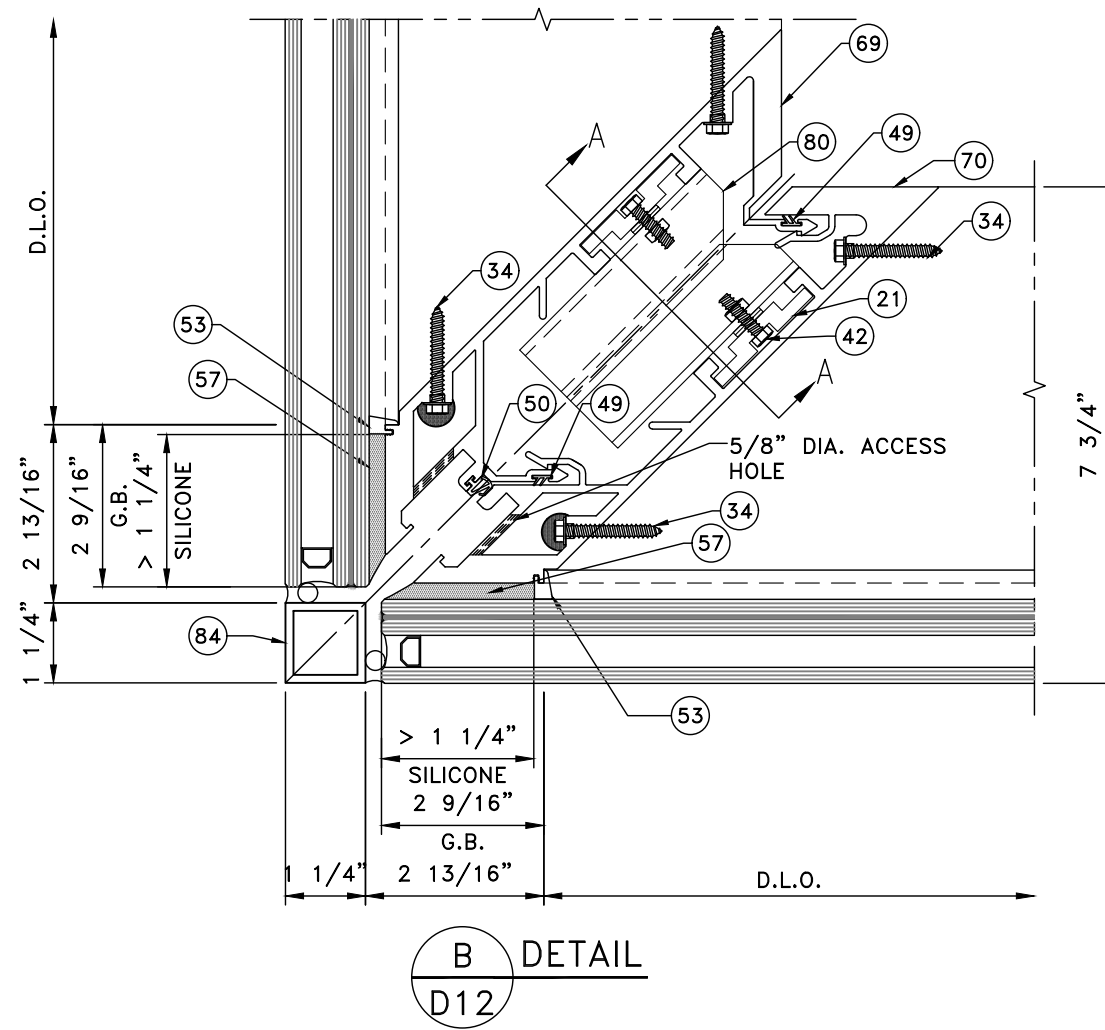
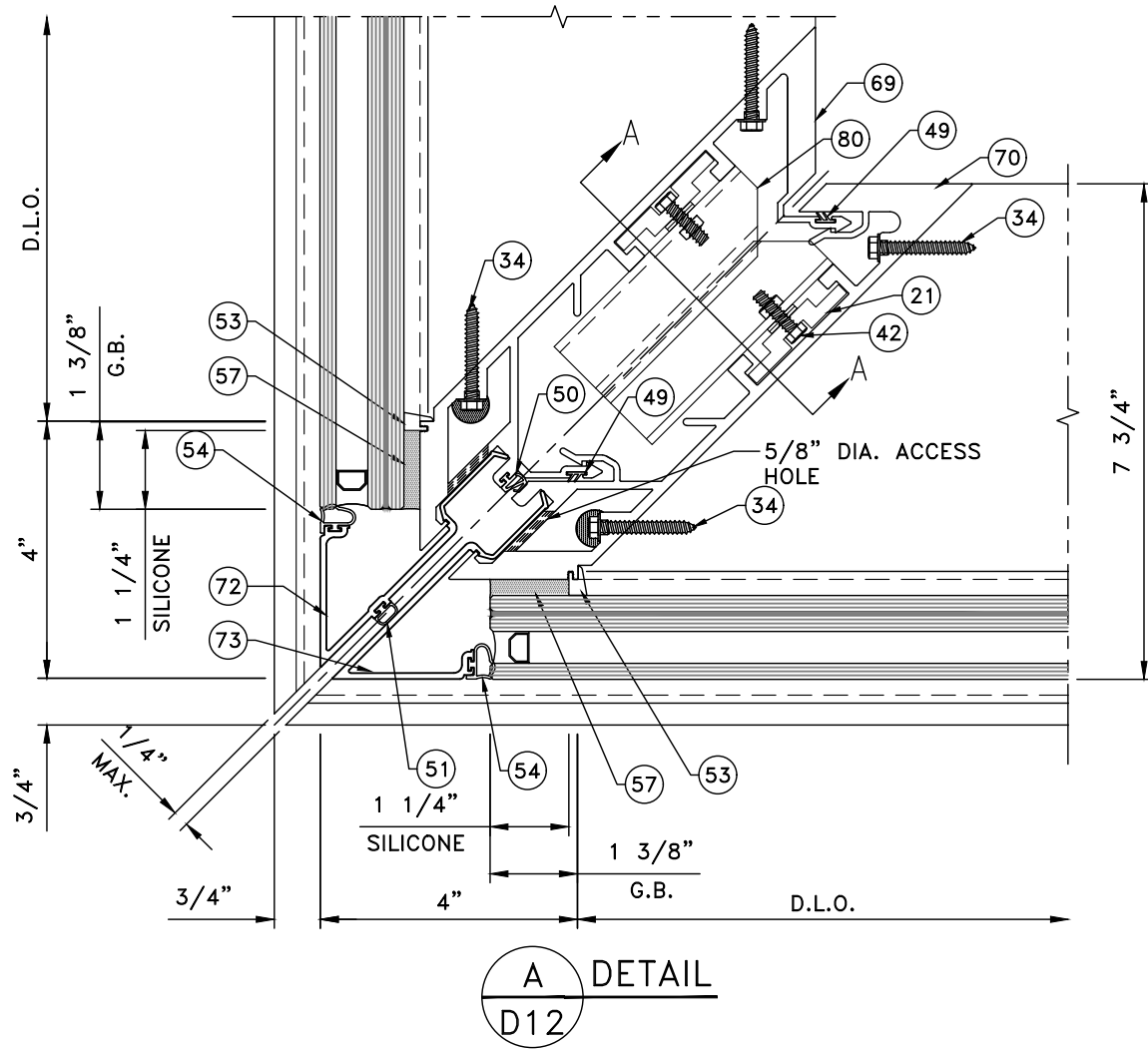


E
DETAIL
D11

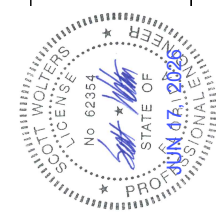


SEAL:
SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

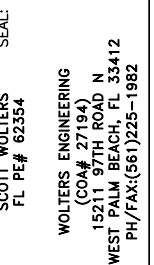
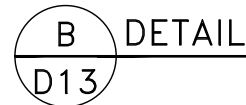
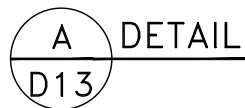
T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		CT WINDOWS	
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES		9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824	
(407) 857-9237			
REVISIONS			
1	GLASS REVISION	08-28-24	
2	DEEP MULLION ADDED	06-18-26	
3			
4			
5			
DRAWN BY: HG			
DATE:02/14/2024			



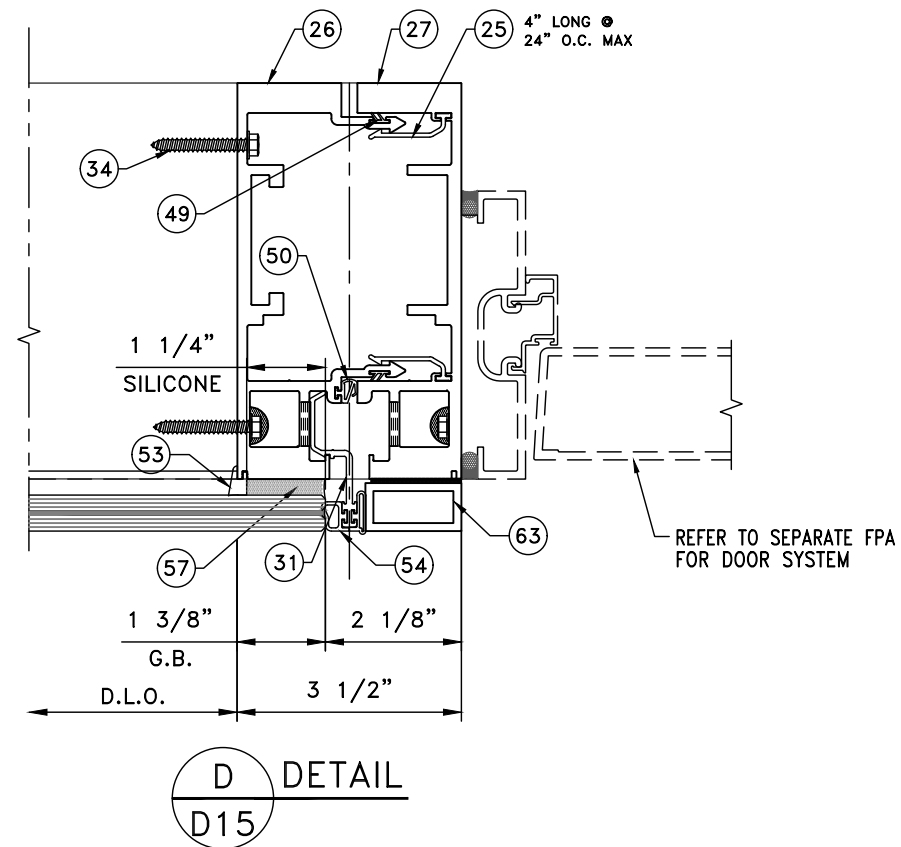
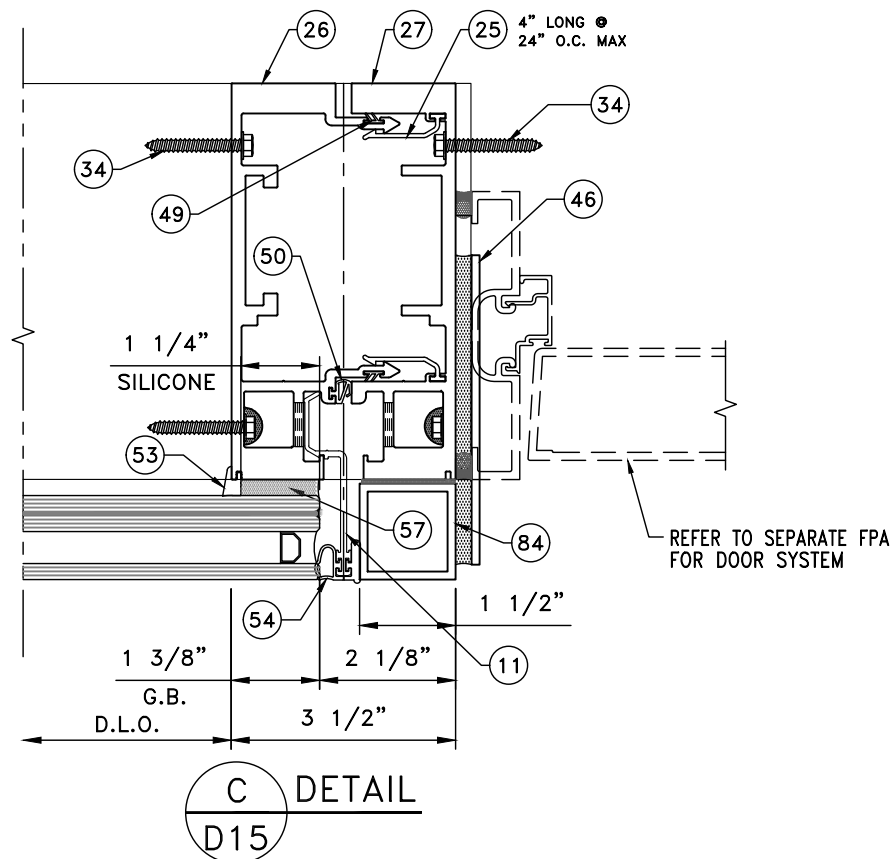
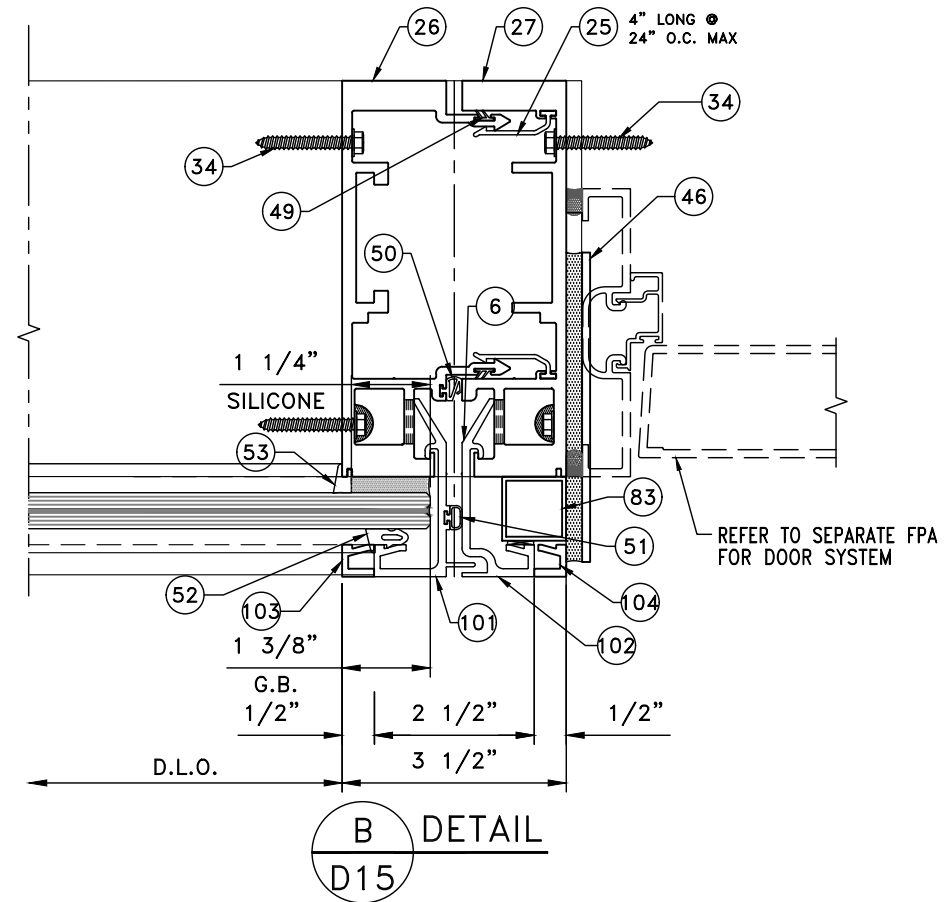
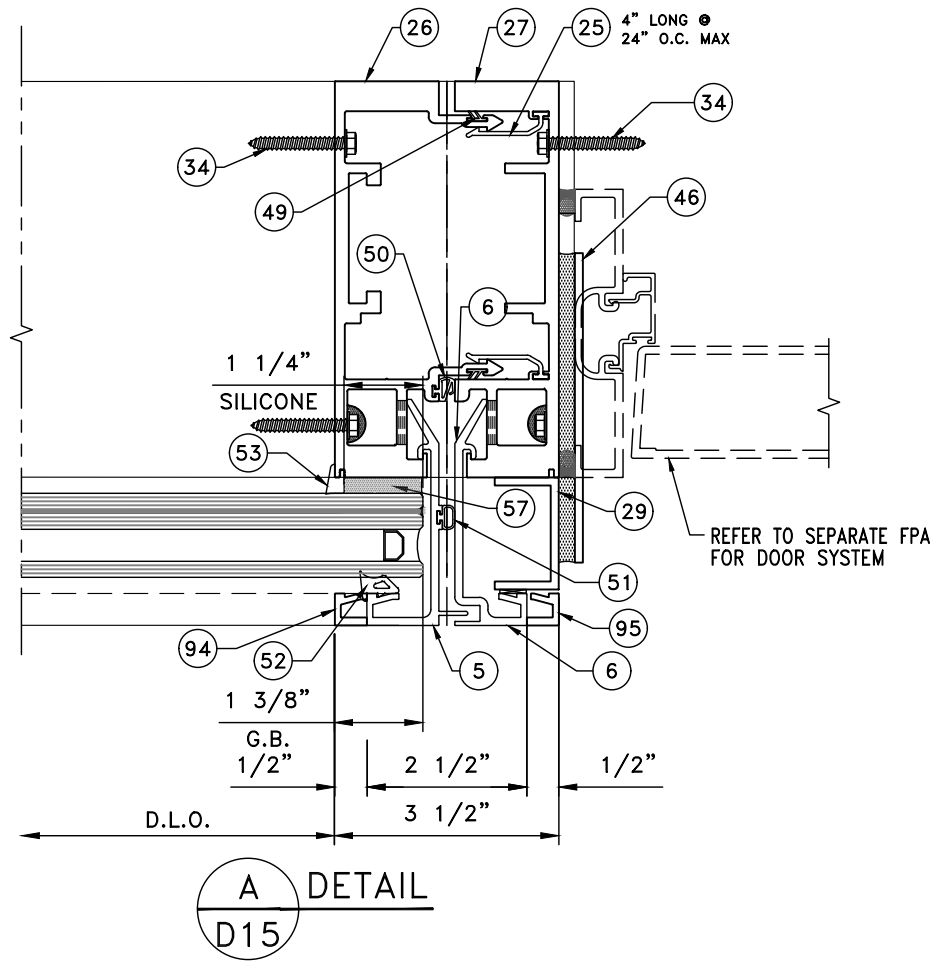
T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		REVISIONS	
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES		1	GLASS REVISION
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824		2	DEEP MULLION ADDED
(407) 857-9237		3	
		4	
		5	
		DRAWN BY: HG	
		DATE: 02/14/2024	
		08-28-24	
		06-18-26	



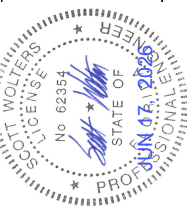
SCOTT WALTERS FL PE# 62354	SEAL:
WALTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
D12	
DRAWING NO. AAT2-24	
SHEET NO. 20 of 46	



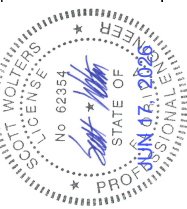
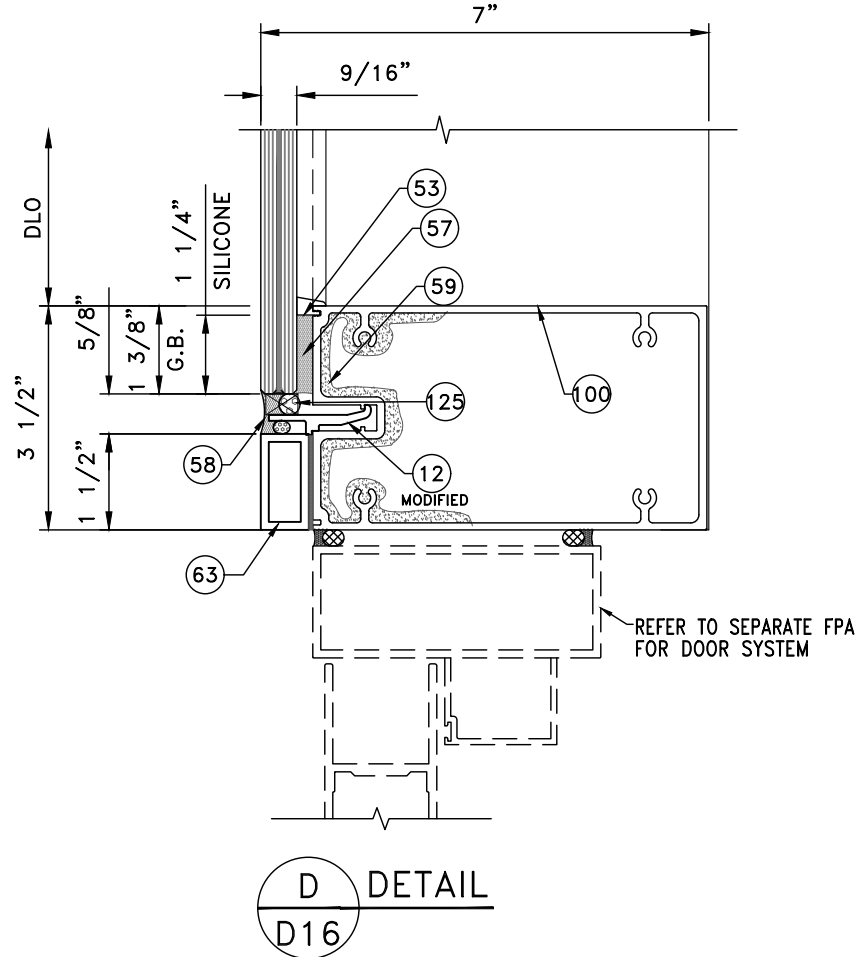
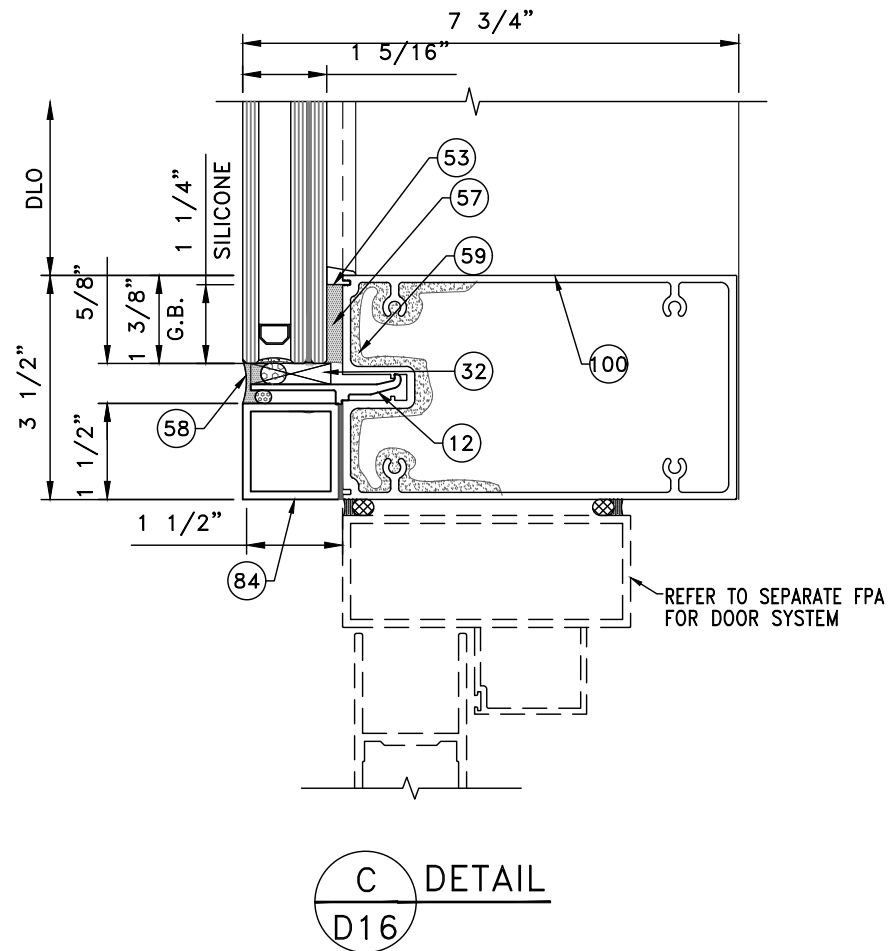
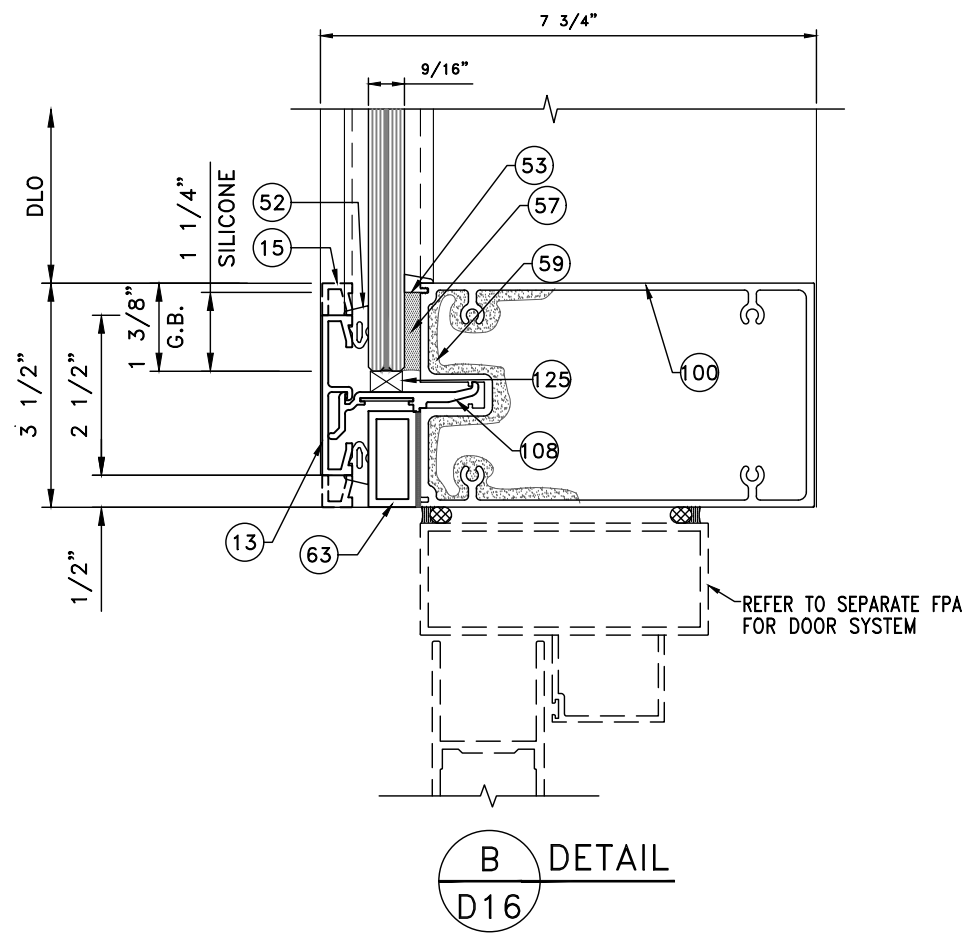
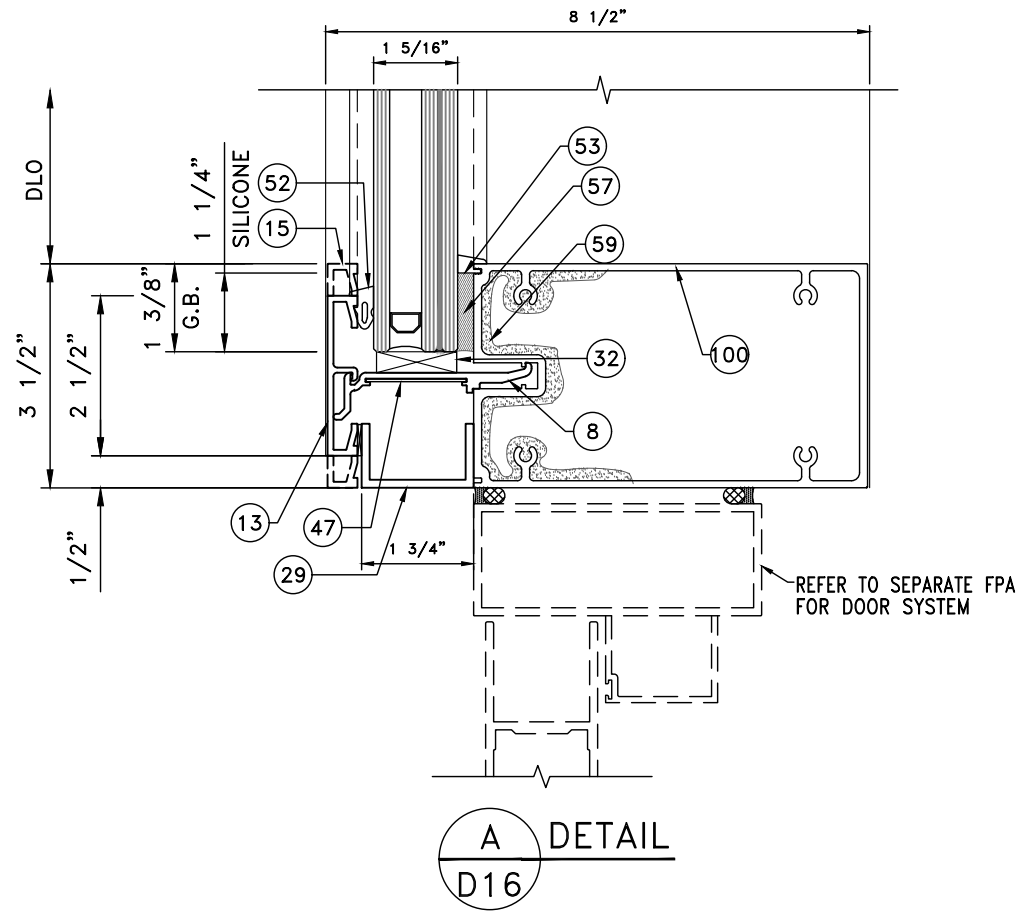
T850 CURTAIN WALL LEVEL D OF E IMPACT - (LMI & SMI)		DRAWN BY: HG	
CT WINDOWS d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES 9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824 (407) 857-9237		1	GLASS REVISION
		2	DEEP MULLION ADDED
		3	
		4	
		5	
		DATE: 02/14/2024	



T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		REVISIONS		
CT WINDOWS d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES 9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824 (407) 857-9237		1	GLASS REVISION	08-28-24
		2	DEEP MULLION ADDED	06-18-26
		3		
		4		
		5		
		DRAWN BY: HG		
		DATE: 02/14/2024		



SEAL:	
SCOTT WALTERS FL PE# 62354	WALTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982
D14	
DRAWING NO. AAT2-24	
SHEET NO. 22 of 46	



SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

D15

DRAWING NO.
AAT2-24

SHEET NO.
23 of 46

T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824
(407) 857-9237

REVISIONS

1 GLASS REVISION 08-28-24

2 DEEP MULLION ADDED 06-18-26

3

4

5

DRAWN BY: HG

DATE:02/14/2024

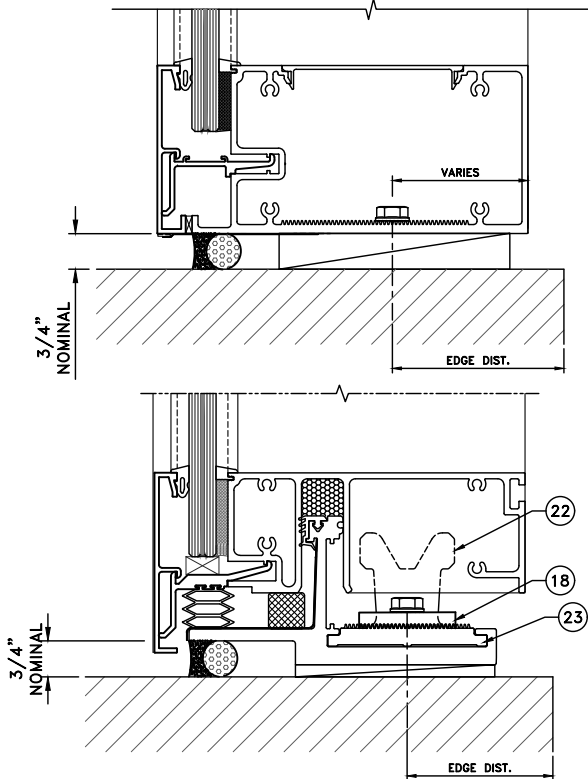
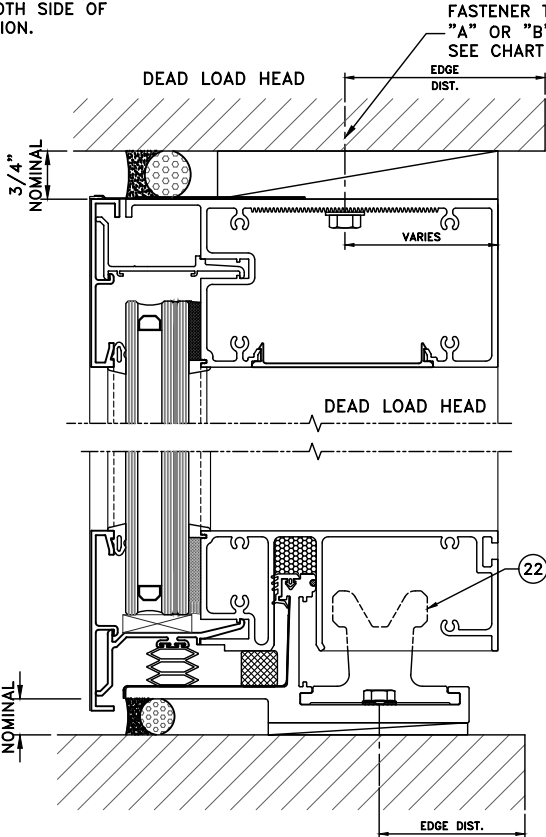
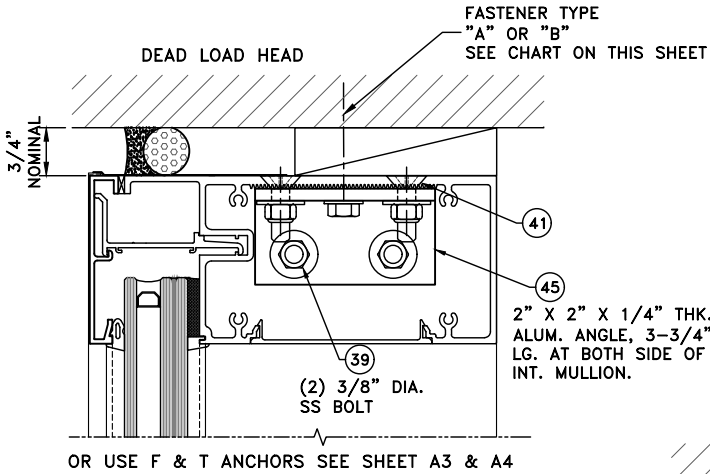
CHART A1

ANCHOR SCHEDULE (FASTENER)

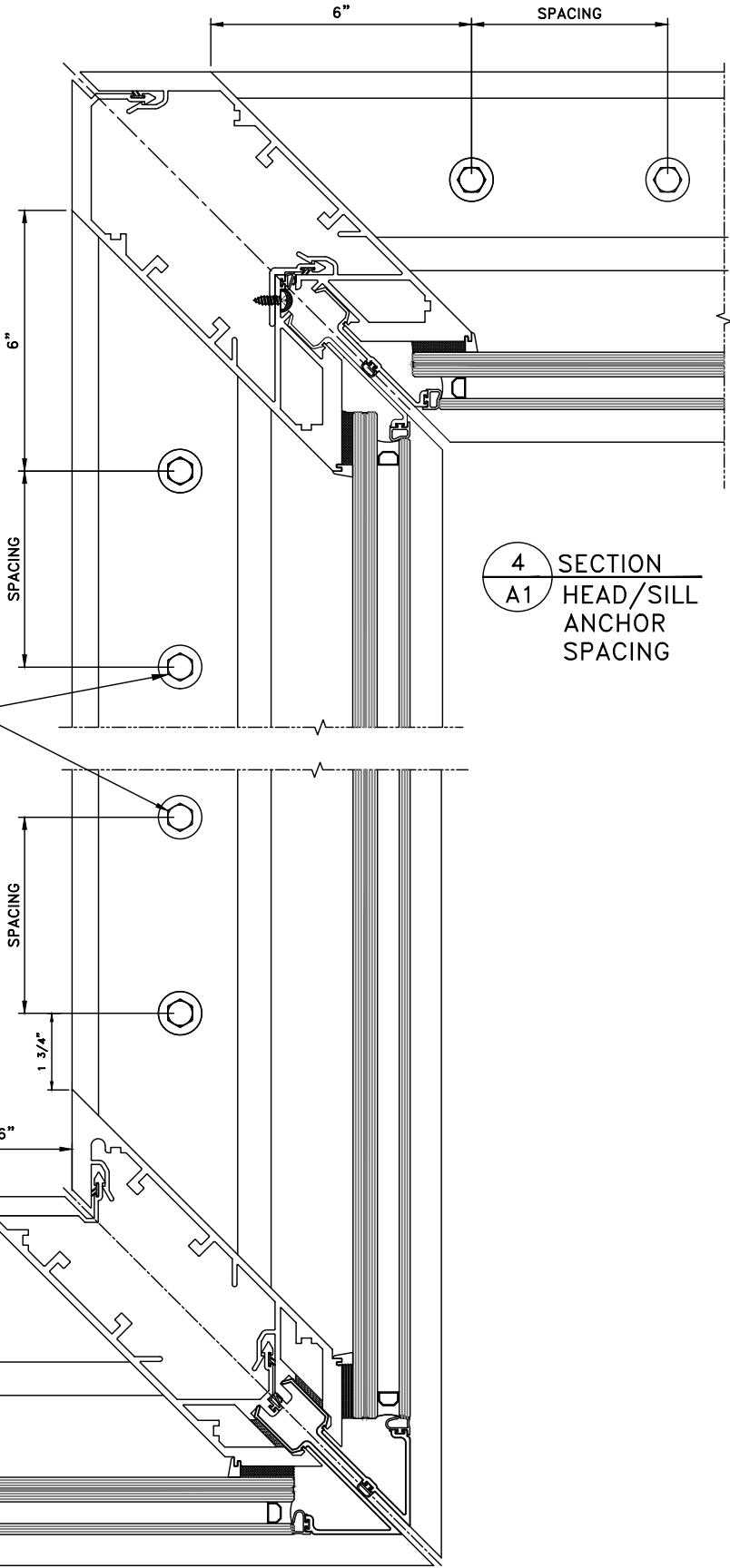
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (MIN.) **	EDGE DISTANCE (MIN.) **	SPACING DISTANCE (MIN.)	** SHIM SPACING (MAX.)
A	(1) 1/2" DIA. DeWALT TAP-FLEX (2) PER JAMB, (4) PER MULLION	STEEL (1/4" min.) Fu = 36 ksi	FULL *	3/4"	1 1/2"	1"
B	(1) 1/2" DIA. DeWALT SCREW BOLT + (2) PER JAMB, (4) PER MULLION	CONCRETE (4000 psi min.)	3"	4"	2 3/4"	1"

ALTERNATE FASTENERS:
(1) 1/2" TAPTITE II SCREW ANCHOR
(2) 1/2" KH-EZ SCREW ANCHOR
(2) M16 8.8 for HALFEN HTA EMBED
(2) M16 8.8F for HILTI HAC-70 EMBED

* FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL WITH (3) ADDITIONAL THREADS.
** EMBEDMENT & EDGE DISTANCE MAY BE SMALLER UNDER LOWER LOADS AND MUST BE CHECKED FOR EACH PROJECT BY A FL LICENSED ENGINEER.



FASTENER TYPE
'A' or 'B'
SEE CHART ON
THIS SHEET



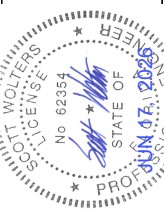
4 SECTION
A1 HEAD/SILL
ANCHOR
SPACING

1 SECTION
A1 HEAD/SILL ANCHOR SPACING

2 SECTION
A1 HEAD/SILL ANCHOR SPACING

3 SECTION
A1 HEAD/SILL ANCHOR SPACING

REVISIONS		GLASS REVISION	08-28-24
1	2	DEEP MULLION ADDED	06-18-26
3	4		
5			
DRAWN BY: HG		DATE: 02/14/2024	
T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		CT WINDOWS	
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES		9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824	
		(407) 857-9237	



SCOTT WOLTERS FL PE# 62354	WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982
SEAL:	
A1	
DRAWING NO. AAT2-24	
SHEET NO. 24 of 46	

CHART A2

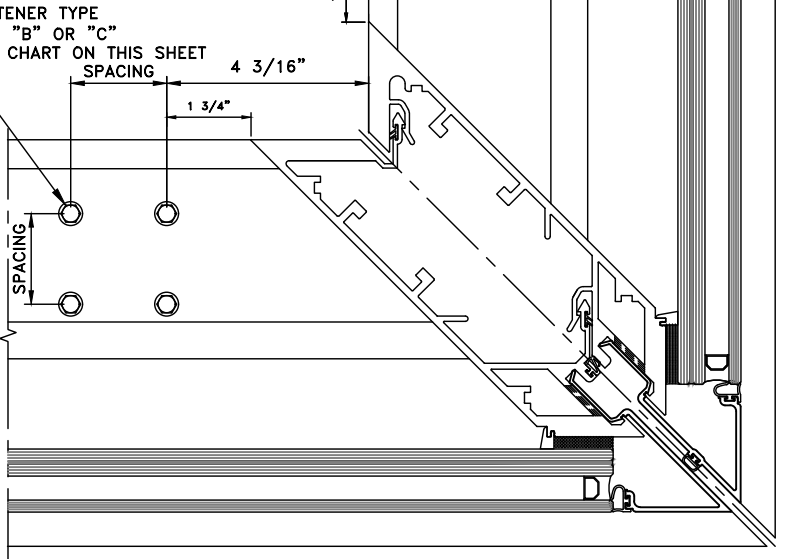
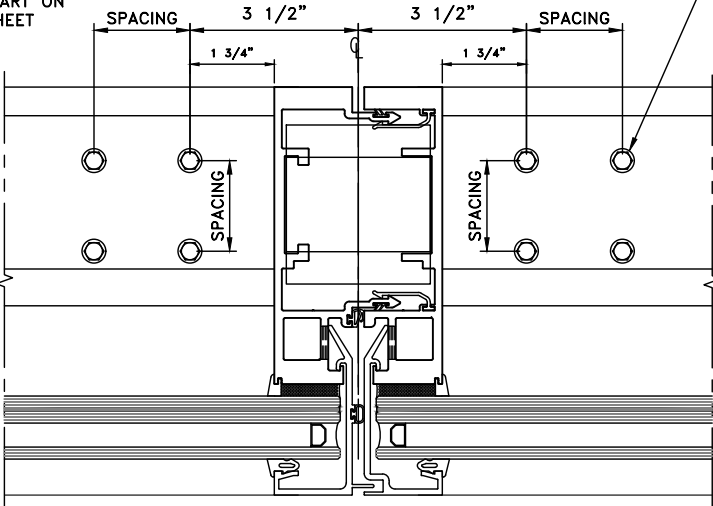
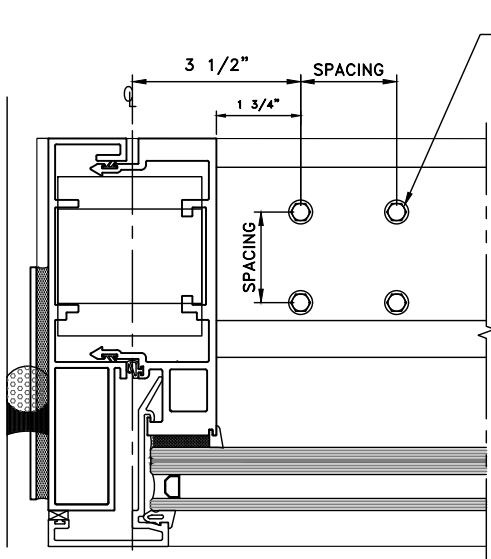
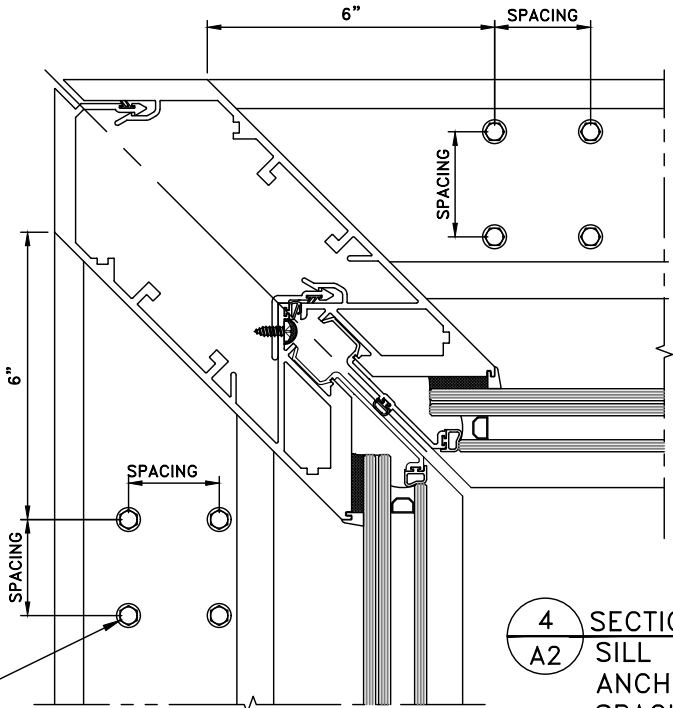
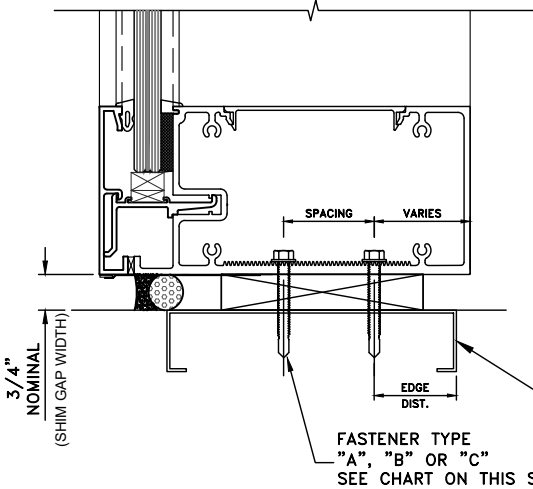
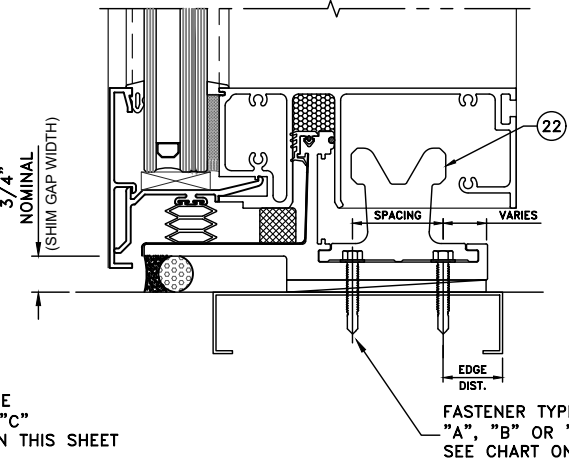
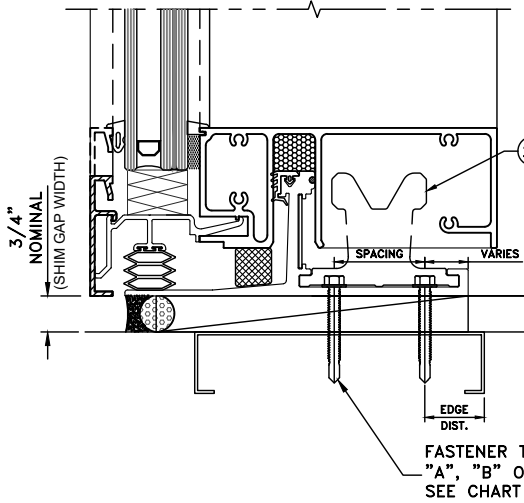
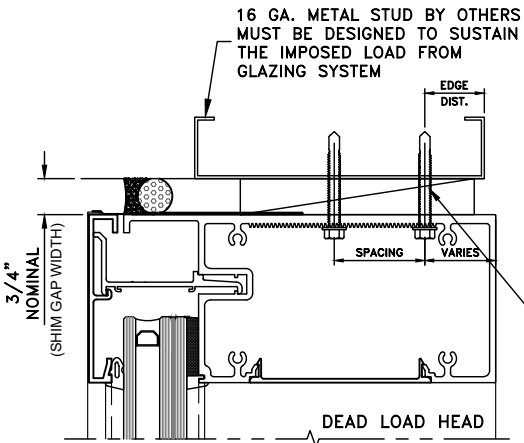
ANCHOR SCHEDULE (HEAD / SILL FASTENER)

FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (MIN.)	EDGE DISTANCE (MIN.)	SPACING DISTANCE (MIN.)	MAX END REACTION (lb.)					
						MULLION			JAMB		
						SHIM GAP WIDTH			SHIM GAP WIDTH		
						1/4"	1/2"	3/4"	1/4"	1/2"	3/4"
A	(1) 5/16" DIA. ELCO DRIL-FLEX (4) PER JAMB, (8) PER MULLION	16 Ga. STEEL (Fu = 45 ksi min.)	FULL *	1/2"	15/16"	2,200	1,650	1,200	4,300	3,300	2,400
B	(2) 1/4" DIA. ELCO DRIL-FLEX (4) PER JAMB, (8) PER MULLION	16 Ga. STEEL (Fu = 45 ksi min.)	FULL *	1/2"	3/4"	2,050	850	625	4,150	1,750	1,250
C	(2) 1/4" ITW TEKS SCREW (4) PER JAMB, (8) PER MULLION	16 Ga. STEEL (Fu = 45 ksi min.)	FULL *	1/2"	3/4"	1,850	850	625	3,700	1,750	1,250

ALTERNATE FASTENERS:
(1) 5/16" SELF DRILLING SCREW GRADE 5
(2) 1/4" TAPTITE II SCREW
(2) 1/4" SELF DRILLING SCREW GRADE 5

* FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL WITH (3) ADDITIONAL THREADS.

NOTE:
1. MAXIMUM SHIM SPACE IS THE RESPONSIBILITY OF THE DELEGATED FL LICENSED ENGINEER FOR EACH PROJECT.



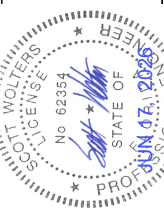
1 SECTION
A2 SILL ANCHOR SPACING

2 SECTION
A2 SILL ANCHOR SPACING

3 SECTION
A2 SILL ANCHOR SPACING

4 SECTION
A2 SILL ANCHOR SPACING

T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES	
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824		(407) 857-9237	
REVISIONS		GLASS REVISION	
1	GLASS REVISION	08-28-24	06-18-26
2	DEEP MULLION ADDED		
3			
4			
5			
DRAWN BY: HG		DATE: 02/14/2024	



SCOTT WOLTERS FL PE# 62354	SEAL:
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
A2	
DRAWING NO. AAT2-24	
SHEET NO. 25 of 46	

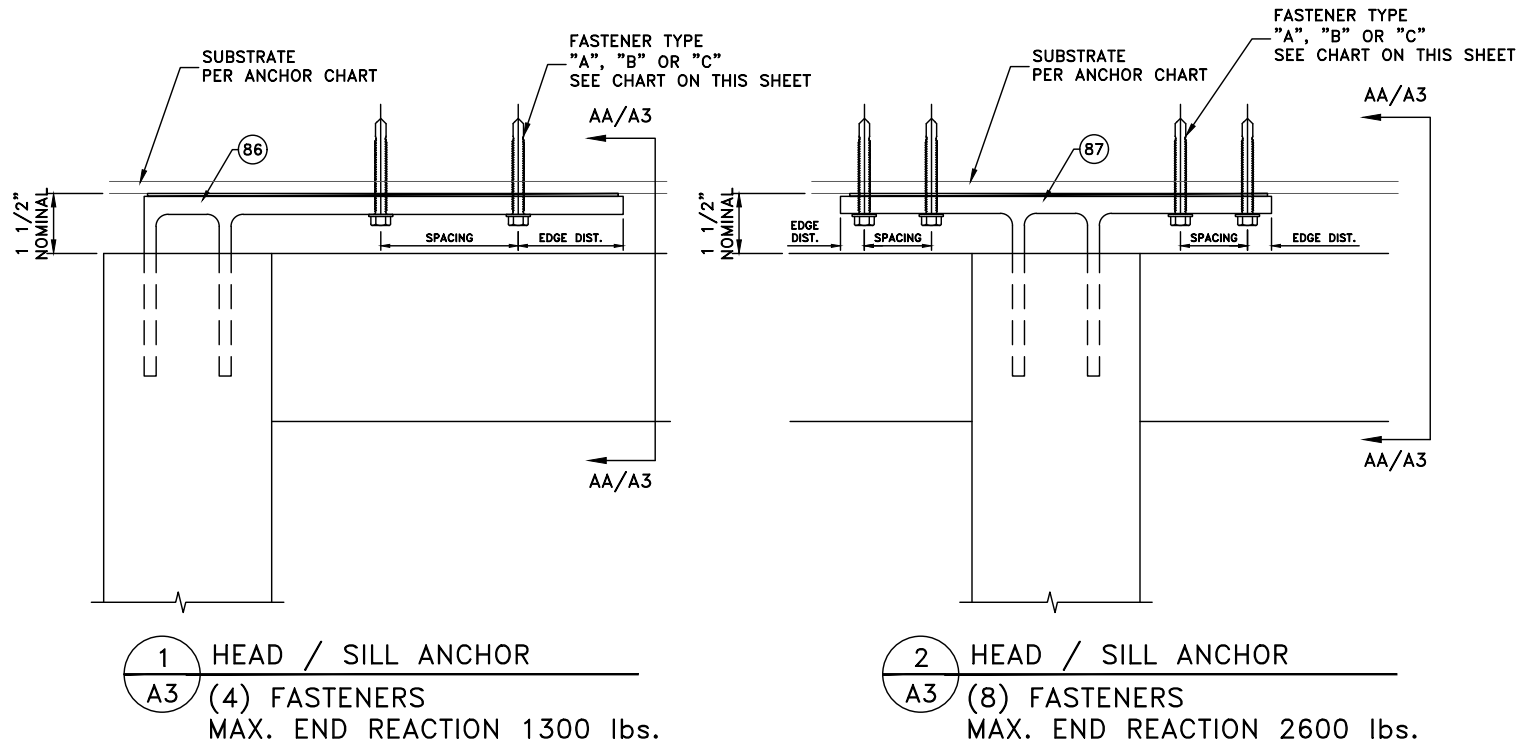
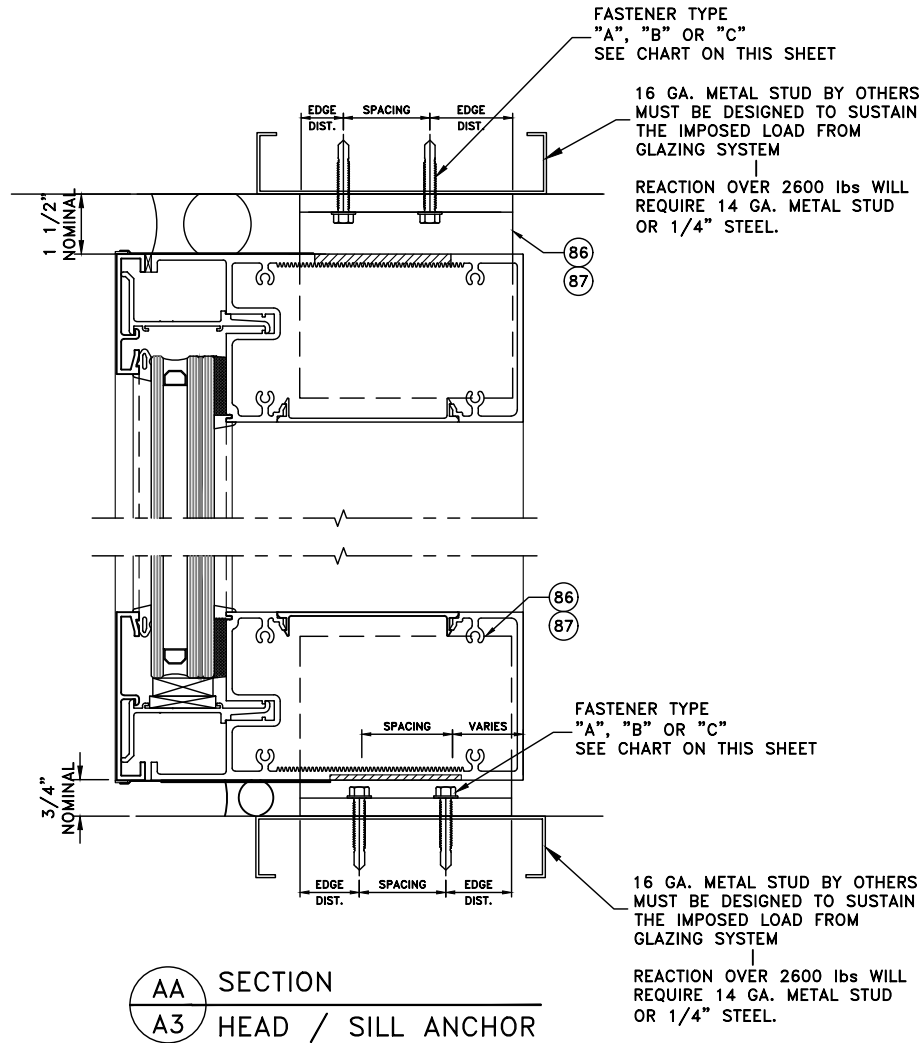


CHART A3

ANCHOR SCHEDULE (HEAD / SILL FASTENER)					
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (MIN.)	EDGE DISTANCE (MIN.)	SPACING DISTANCE (MIN.)
A	(1) 5/16" DIA. ELCO DRIL-FLEX (4) PER JAMB, (8) PER MULLION	16 Ga. STEEL (Fu = 45 ksi min.)	FULL *	1/2"	15/16"
B	(2) 1/4" DIA. ELCO DRIL-FLEX (4) PER JAMB, (8) PER MULLION	16 Ga. STEEL (Fu = 45 ksi min.)	FULL *	1/2"	3/4"
C	(2) 1/4" DIA. TAPTITE II (4) PER JAMB, (8) PER MULLION	16 Ga. STEEL (Fu = 45 ksi min.)	FULL *	1/2"	3/4"

ALTERNATE FASTENERS:
(1) 5/16" SELF DRILLING SCREW GRADE 5
(2) 1/4" SELF DRILLING SCREW GRADE 5

* FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL WITH (3) ADDITIONAL THREADS.

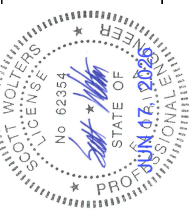
CHART A3b

MAX CAULK JOINT WIDTH	MAX MULLION END REACTION
3/4"	2600 LB **
1"	2300 LB
1 1/2"	1700 LB

** MAX REACTION FOR ALL MULLION CONFIGURATIONS.

NOTE:
1. MAXIMUM SHIM SPACE IS THE RESPONSIBILITY OF THE DELEGATED FL LICENSED ENGINEER FOR EACH PROJECT.

T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)	REVISIONS				
	1	GLASS REVISION	08-28-24		
	2	DEEP MULLION ADDED	06-18-26		
	3				
	4				
	5				
	DRAWN BY: HG				
DATE: 02/14/2024					
CT WINDOWS					
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES					
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824					
(407) 857-9237					



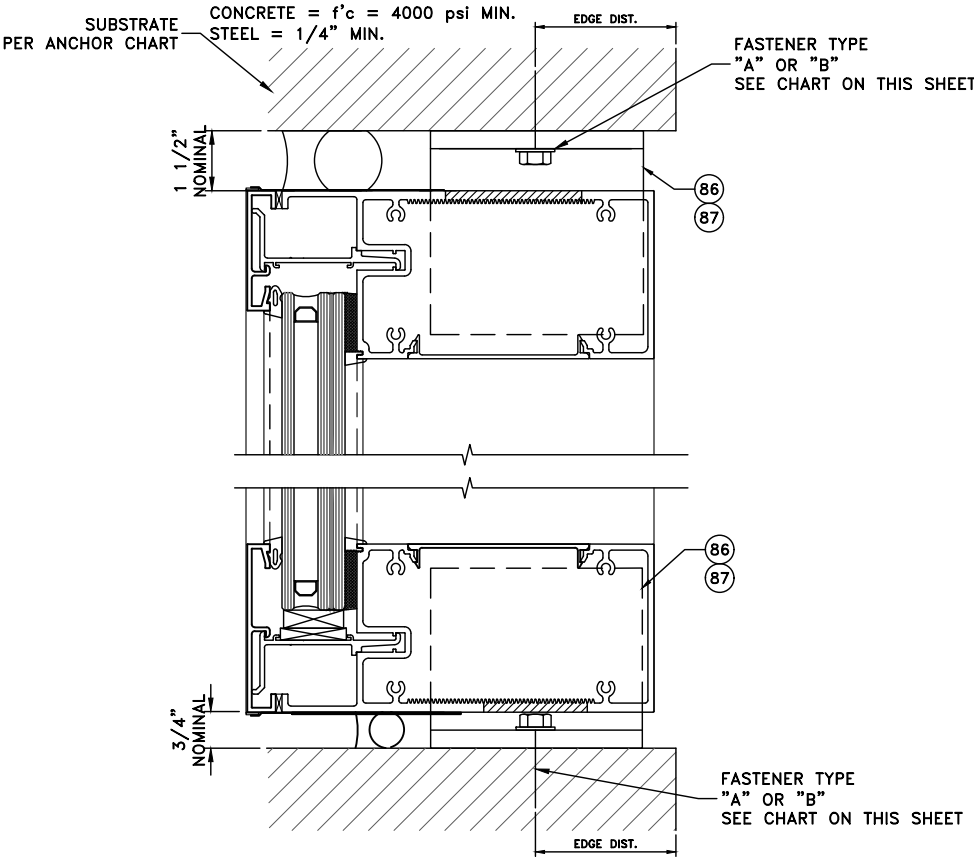
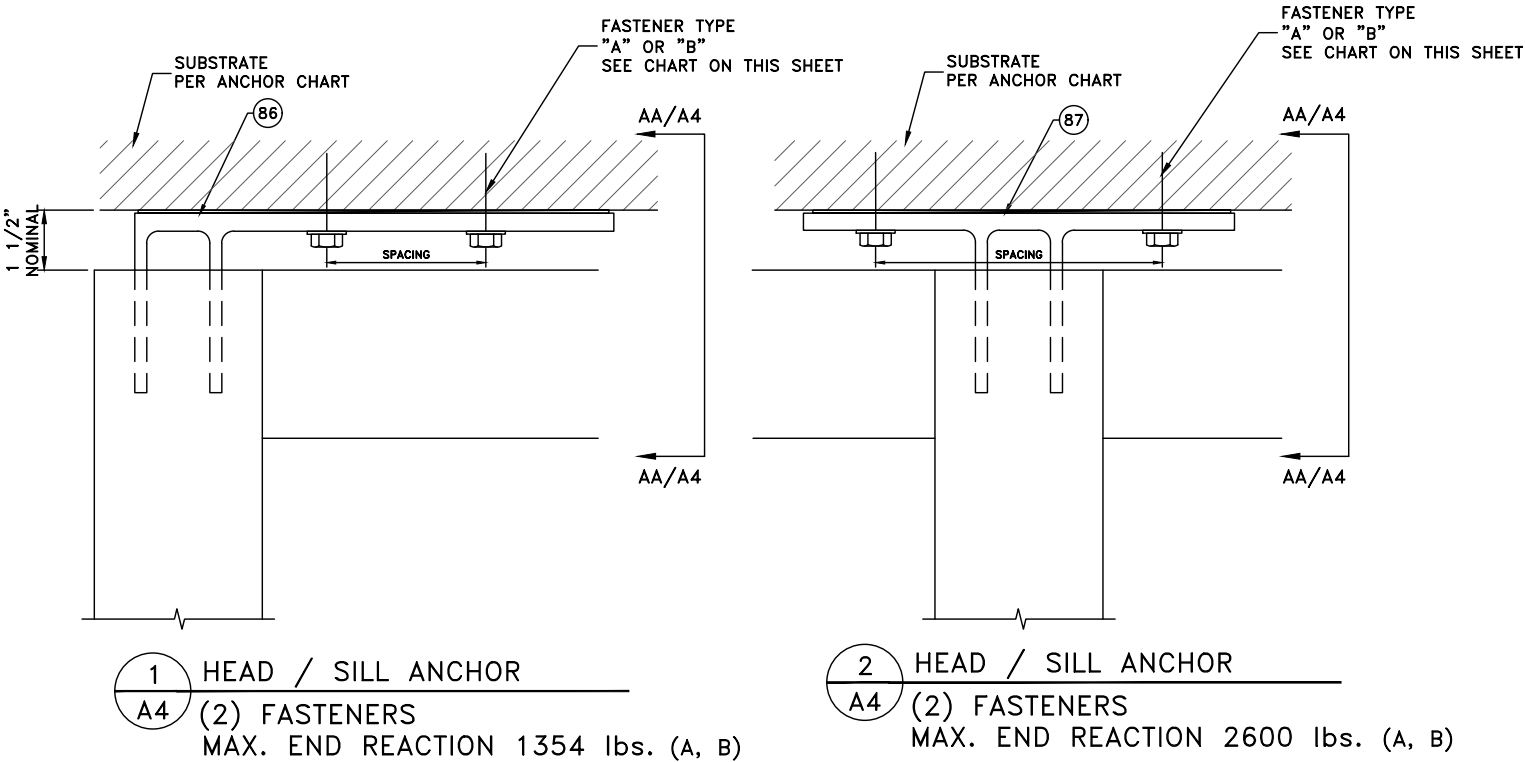
SCOTT WOLTERS FL PE# 62354	SEAL:
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
A3	
DRAWING NO. AAT2-24	
SHEET NO. 26 of 46	

CHART A4

FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (MIN.)*	EDGE DISTANCE (MIN.)*	SPACING DISTANCE (MIN.)	MAX END REACTION (lb.)					
						MULLION			JAMB		
						CAULK JOINT WIDTH			CAULK JOINT WIDTH		
A	(1) 1/2" DIA. DeWALT TAP-FLEX (2) PER JAMB, (2) PER MULLION	1/4" STEEL (A36 min.) 3/8" STEEL (A36 min.)	* FULL * FULL	1 1/4" 1 1/4"	6" at MULL's 3" at JAMB's	3/4"	1"	1 1/2"	3/4"	1"	1 1/2"
						4,200	4,200	4,000	2,500	2,500	2,500
B	(2) 1/2" DIA. DeWALT SCREW BOLT + (2) PER JAMB, (2) PER MULLION	CONCRETE (4000 psi min.)	3" 4 1/4"	4 1/2" 6"	6" at MULL's 3" at JAMB's	3,050	2,900	2,600	2,500	2,400	2,100
						3,700	3,550	3,200	2,500	2,500	2,500

ALTERNATE FASTENERS:
(1) 1/2" TAPTITE II SCREW ANCHOR
(2) 1/2" KH-EZ SCREW ANCHOR
(2) M16 8.8 for HALFEN HTA EMBED
(2) M16 8.8F for HILTI HAC-70 EMBED

* FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL WITH (3) ADDITIONAL THREADS.
** EMBEDMENT & EDGE DISTANCE MAY BE SMALLER UNDER LOWER LOADS AND MUST BE CHECKED FOR EACH PROJECT BY A FL LICENSED ENGINEER.



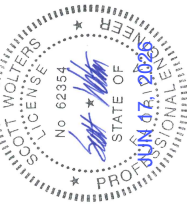
AA SECTION
A4 HEAD / SILL ANCHOR

NOTE:
1. MAXIMUM SHIM SPACE IS THE RESPONSIBILITY OF THE DELEGATED FL LICENSED ENGINEER FOR EACH PROJECT.

REVISIONS	GLASS REVISION		DEEP MULLION ADDED			
	1	2	3	4		

DRAWN BY: HG
DATE:02/14/2024

T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)
CT WINDOWS
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824
(407) 857-9237



SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

A4
DRAWING NO.
AAT2-24
SHEET NO.
27 of 46

1 J-HOOK ANCHOR
A5 INTERMEDIATE
ANCHOR

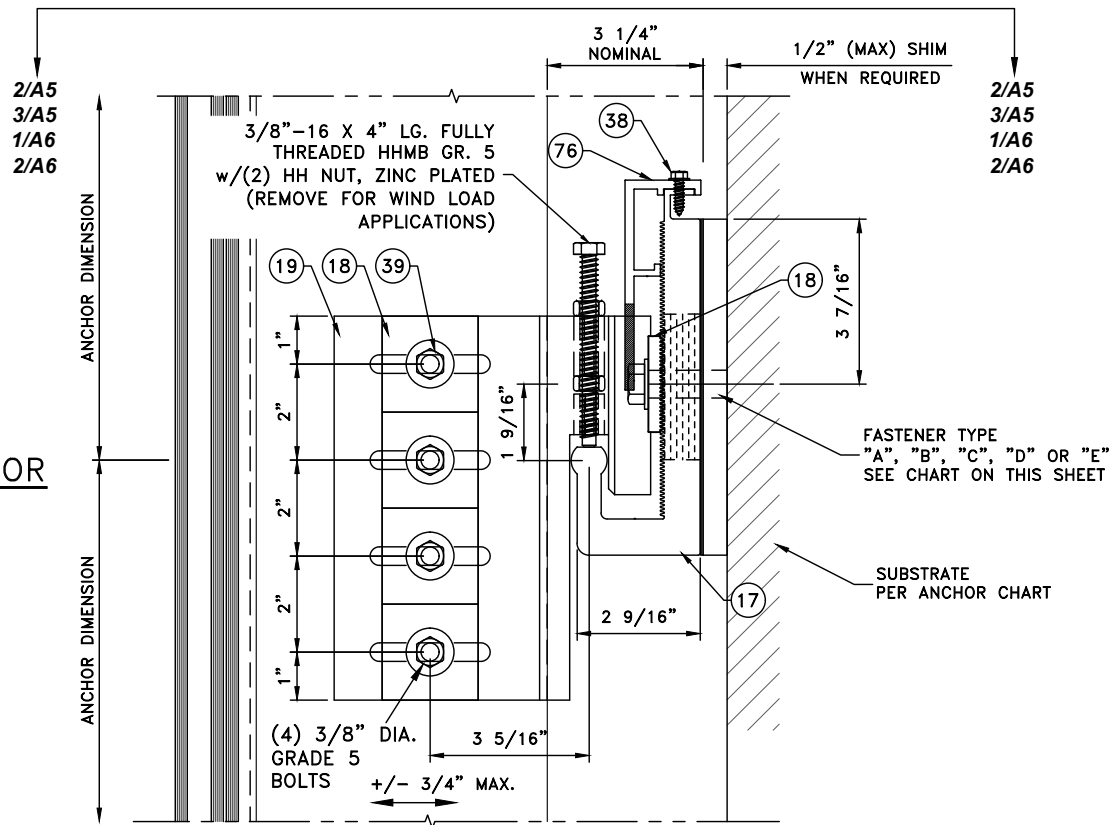


CHART A5

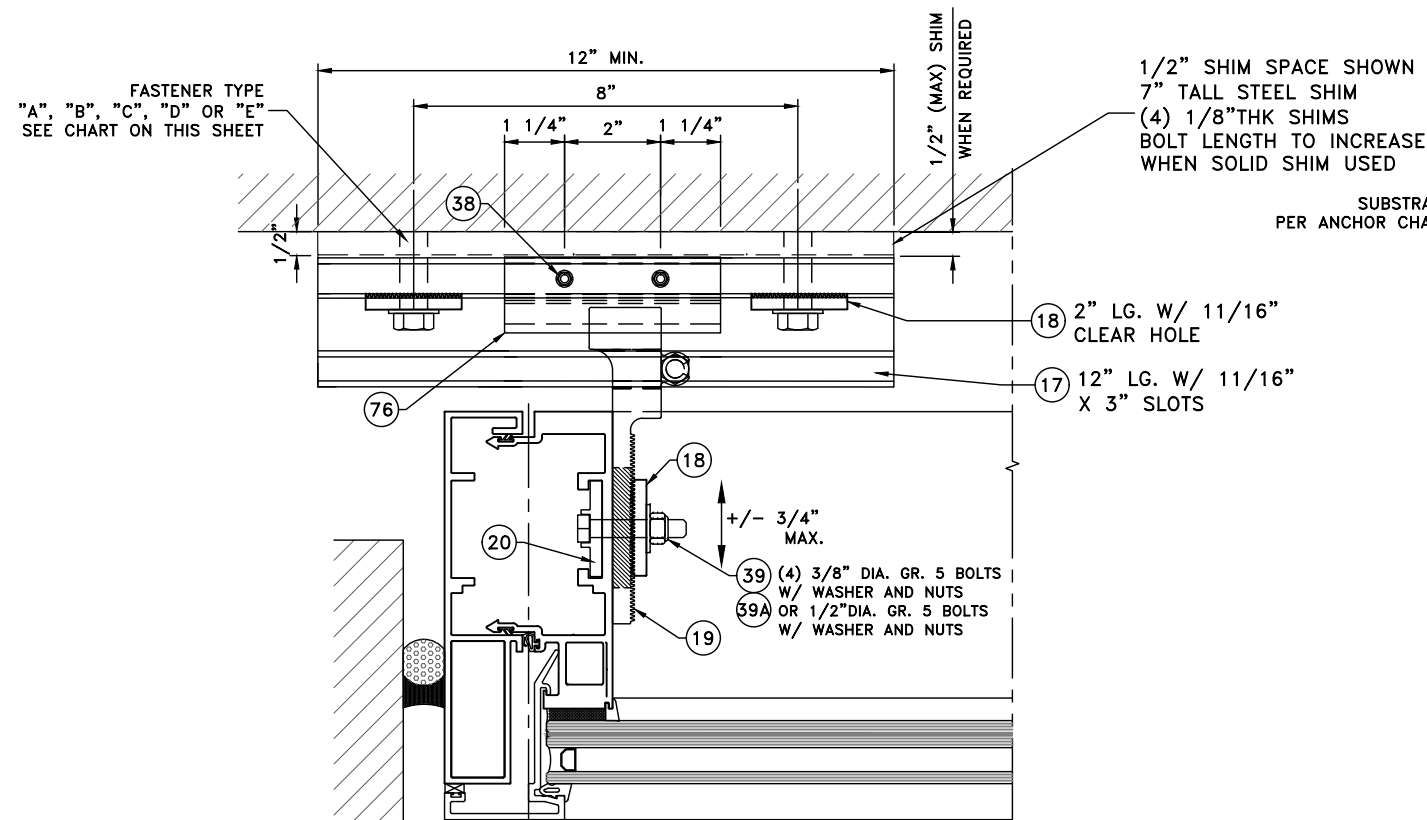
ANCHOR SCHEDULE (FASTENER)						
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (MIN.)**	EDGE DISTANCE (MIN.)**	SPACING DISTANCE (MIN.)	MAXIMUM REACTION (lb.)
A	(1) 5/8" H.H. BOLT (Grade 5) w/Locknut & Washer (2) PER JAMB, (2) PER MULLION	1/4" min. STEEL (A36 min.)	THRU	3"	8"	10,500
B	(1) 5/8" DIA. DeWALT TAP-FLEX (2) PER JAMB, (2) PER MULLION	1/4" STEEL (A36 min.) 3/8" STEEL (A36 min.) 1/2" STEEL (A36 min.)	* FULL FULL FULL	3" 3" 3"	8" 8" 8"	4,500 7,400 9,700
C	(2) 5/8" DIA. DeWALT SCREW BOLT + (2) PER JAMB, (2) PER MULLION	CONCRETE (4000 psi min.)	5" 6 1/4"	4" 6"	8" 8"	4,000 5,600
D	(1) 1/2" DIA. DeWALT TAP-FLEX (2) PER JAMB, (4) PER MULLION	1/4" STEEL (A36 min.) 3/8" STEEL (A36 min.) 1/2" STEEL (A36 min.)	* FULL FULL FULL	3" 3" 3"	3" 3" 3"	6,400 10,500 10,500
E	(2) 1/2" DIA. DeWALT SCREW BOLT + (2) PER JAMB, (4) PER MULLION	CONCRETE (4000 psi min.)	4 1/4" 5 1/2"	4" 6"	3" 3"	6,000 7,400

ALTERNATE FASTENERS:

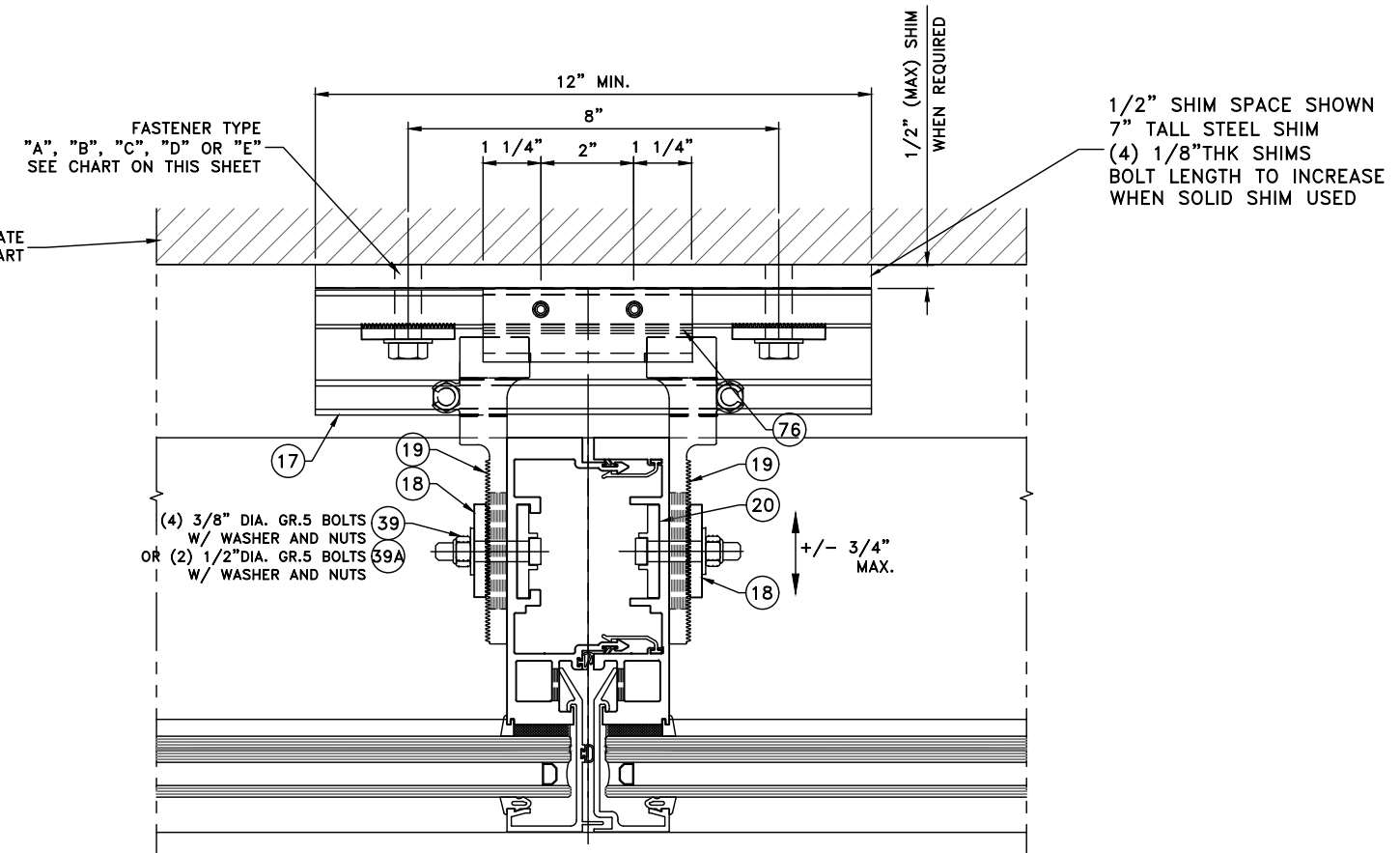
- (1) 5/8" TAPTITE PRO SCREW ANCHOR
- (1) 1/2" TAPTITE PRO SCREW ANCHOR
- (2) 5/8" KH-EZ SCREW ANCHOR
- (2) 1/2" KH-EZ SCREW ANCHOR
- (2) M16 8.8 for HALFEN HTA EMBED
- (2) M16 8.8F for HILTI HAC-70 EMBED

* FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL WITH (3) ADDITIONAL THREADS.

** EMBEDMENT & EDGE DISTANCE MAY BE SMALLER UNDER LOWER LOADS AND MUST BE CHECKED FOR EACH PROJECT BY A FL LICENSED ENGINEER.



2 SECTION
A5 JAMB ANCHOR

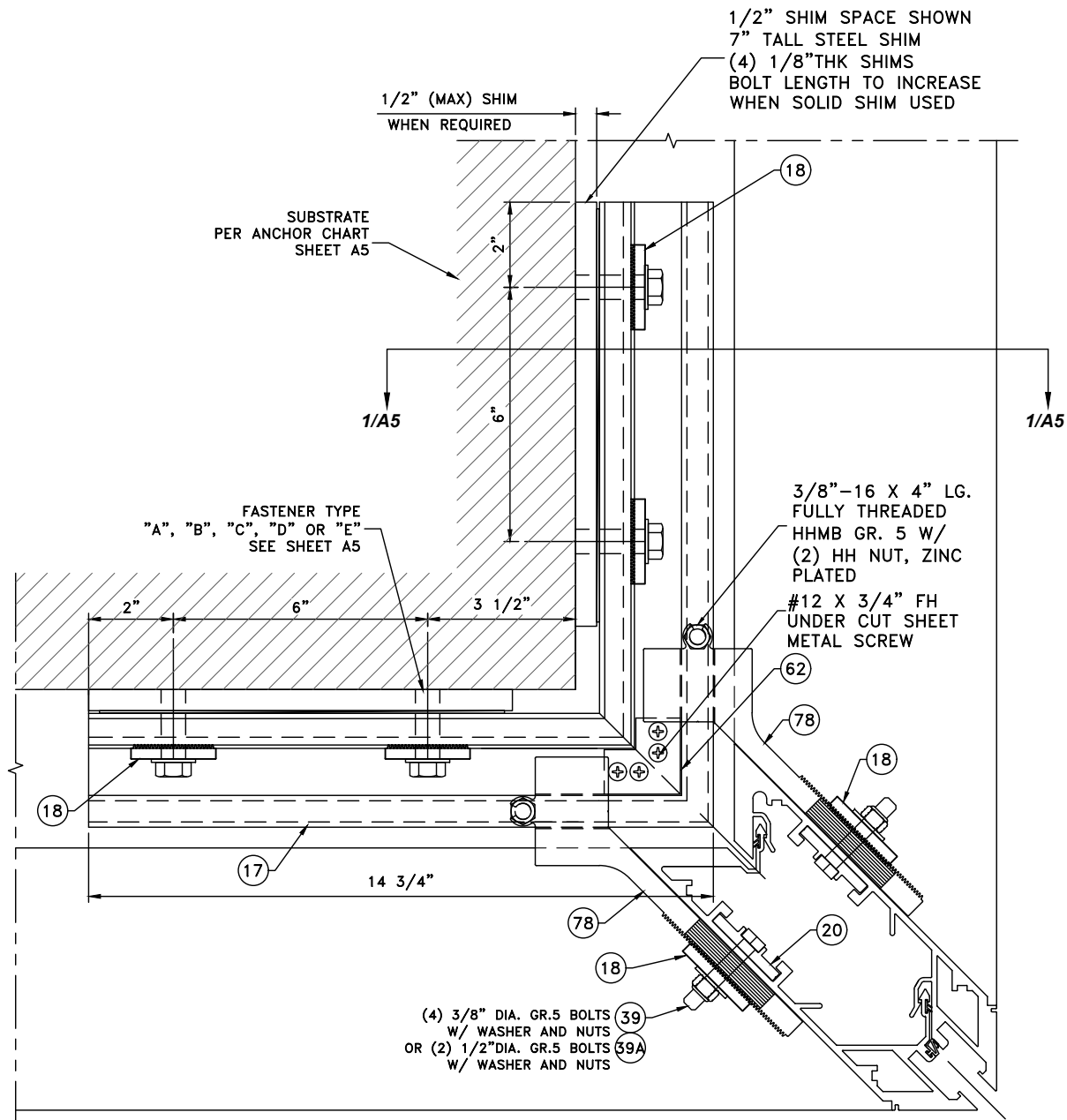


3 SECTION
A5 INTERMEDIATE ANCHOR

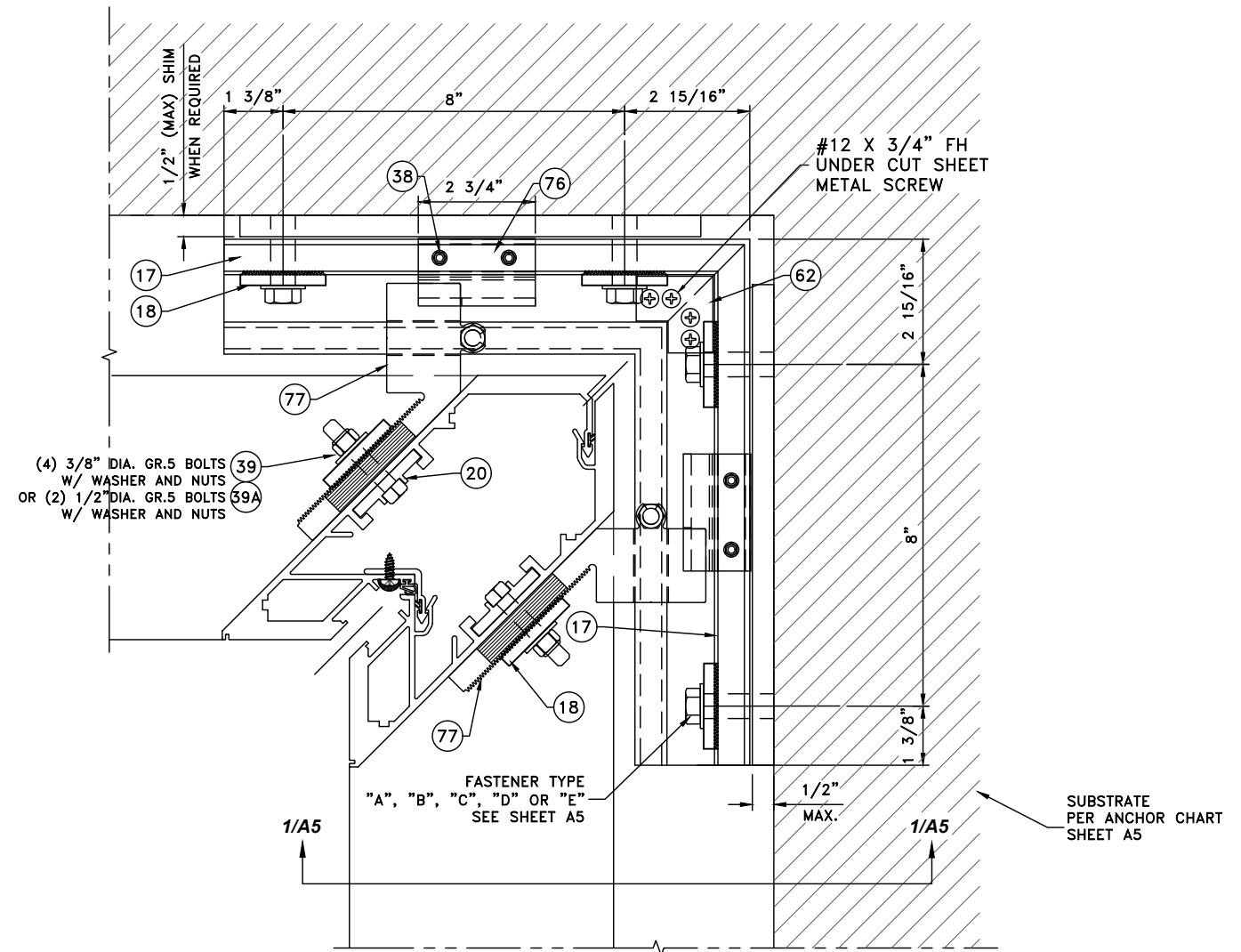
REVISIONS		GLASS REVISION		DEEP MULLION ADDED	
1	2	3	4	5	
DRAWN BY: HG					
DATE: 02/14/2024					
T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)					
CT WINDOWS					
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES					
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824					
(407) 857-9237					



SCOTT WOLTERS FL PE# 62354	WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982
A5	
DRAWING NO. AAT2-24	
SHEET NO. 28 of 46	



1 SECTION
A6 90° O.S. CORNER MULLION
J-HOOK ANCHOR

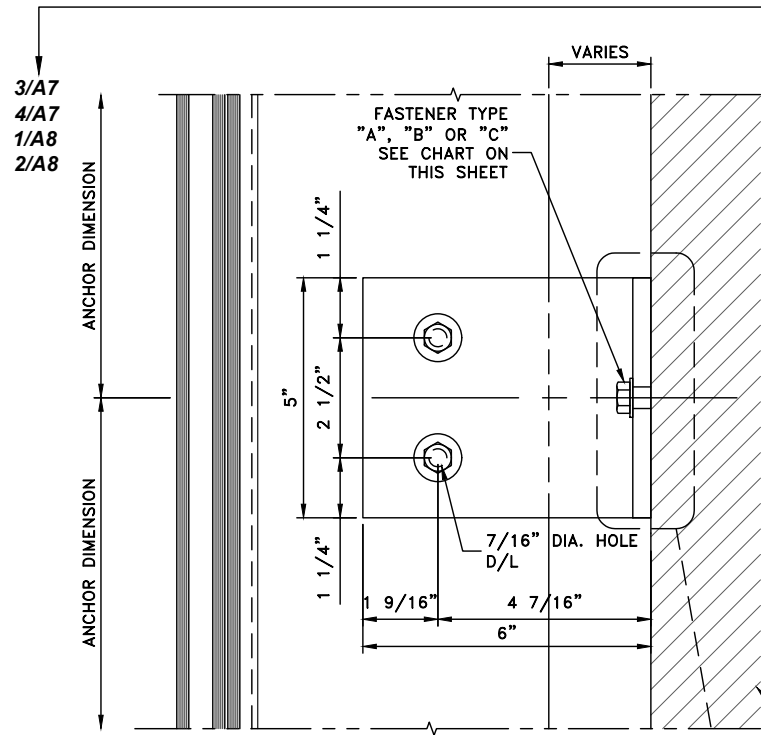


2 DETAIL
A6 90° I.S. CORNER MULLION
J-HOOK ANCHOR

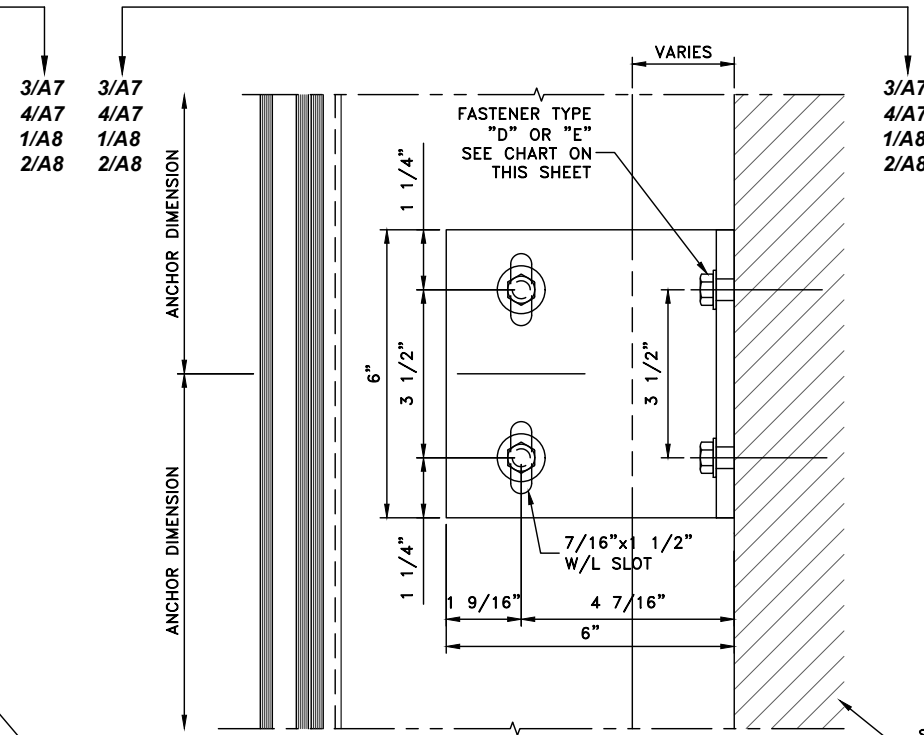
REVISIONS				
1	GLASS REVISION	08-28-24	2	DEEP MULLION ADDED
1			2	
2			3	
3			4	
4			5	
DRAWN BY: HG				
DATE: 02/14/2024				
T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)				
CT WINDOWS				
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES				
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824				
(407) 857-9237				



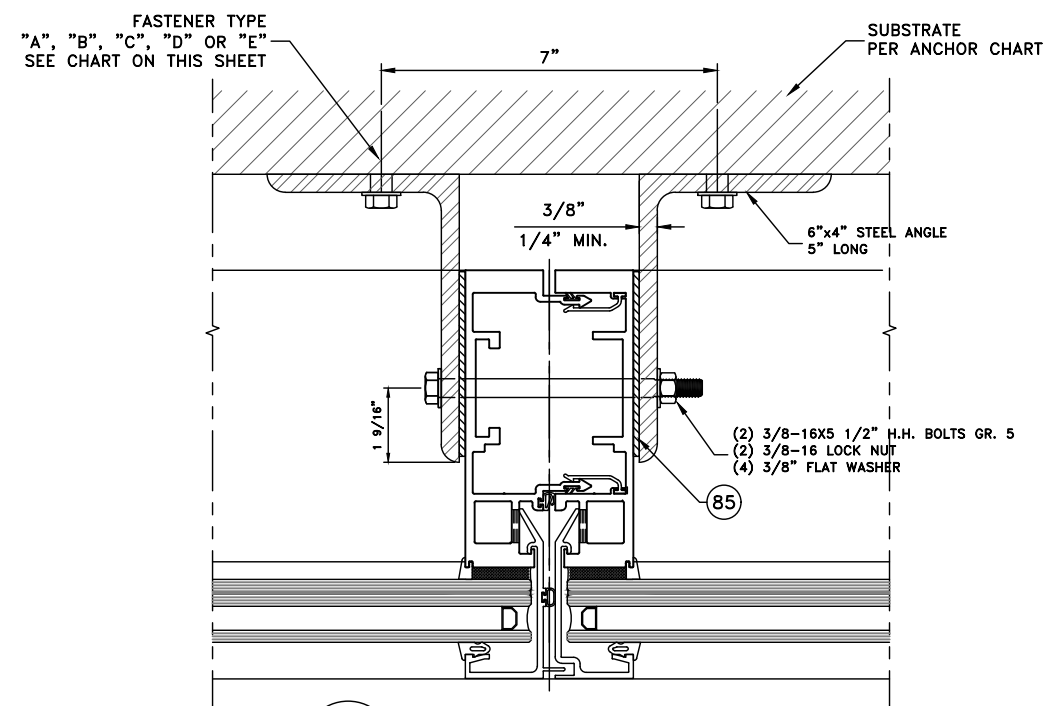
SCOTT WOLTERS FL PE# 62354	SEAL:
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
A6	
DRAWING NO. AAT2-24	
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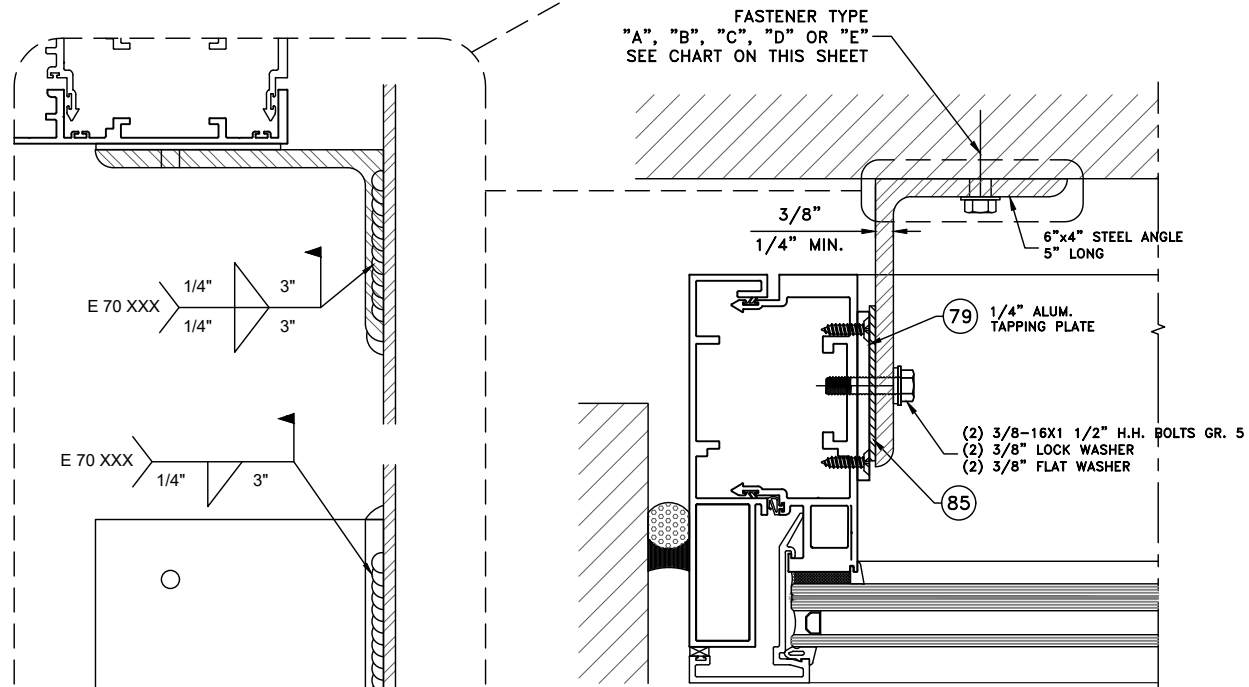
1 DEAD LOAD ANCHOR
A7 INTERMEDIATE ANCHOR
(WIND LOAD SIM.)



2 WIND LOAD ANCHOR
A7 INTERMEDIATE ANCHOR
& JAMB ANCHOR
(DEAD LOAD SIM.)



4 SECTION
A7 INTERMEDIATE ANCHOR



3 SECTION
A7 JAMB ANCHOR

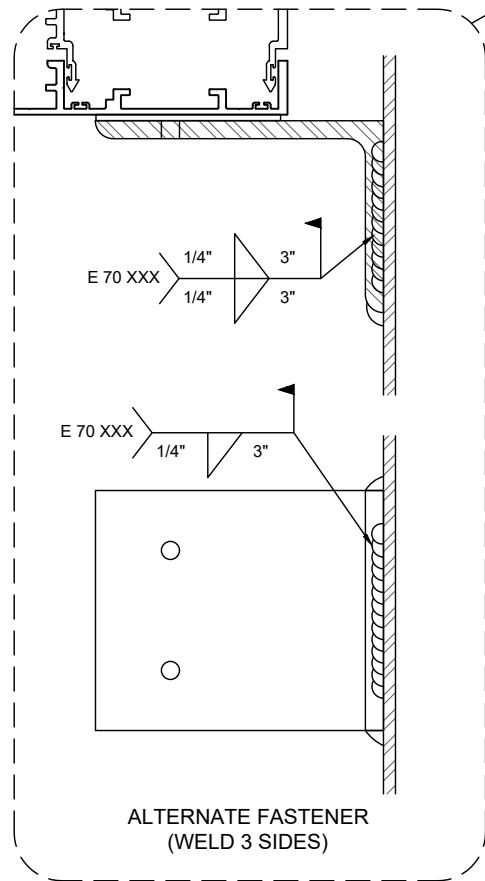


CHART A7

ANCHOR SCHEDULE (FASTENER)						MAX END REACTION (lb.)	
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (MIN.)**	EDGE DISTANCE (MIN.)**	SPACING DISTANCE (MIN.)	INTERMEDIATE MULLION (lb.)	JAMB MULLION (lb.)
A	(1) 1/2" H.H. BOLT (Grade 5) w/Locknut & Washer (1) PER JAMB, (2) PER MULLION	1/4" min. STEEL (A36 min.)	THRU	2"	7"	10,500	5,500
B	(1) 1/2" DIA. DeWALT TAP-FLEX (1) PER JAMB, (2) PER MULLION	1/4" STEEL (A36 min.) 3/8" STEEL (A36 min.) 1/2" STEEL (A36 min.)	* FULL FULL FULL	2" 2" 2"	7" 7" 7"	4,500 8,400 10,500	2,250 4,200 5,400
C	(2) 1/2" DIA. DeWALT SCREW BOLT + (1) PER JAMB, (2) PER MULLION	CONCRETE (4000 psi min.)	4 1/4" 5 1/2"	4" 6"	7" 7"	5,400 6,400	3,000 4,000
D	(1) 3/8" DIA. DeWALT TAP-FLEX (2) PER JAMB, (4) PER MULLION	1/4" STEEL (A36 min.) 3/8" STEEL (A36 min.)	* FULL FULL	1 1/8" 1 1/8"	3 1/2" 3 1/2"	8,600 10,500	4,300 5,500
E	(2) 3/8" DIA. DeWALT SCREW BOLT + (2) PER JAMB, (4) PER MULLION	CONCRETE (4000 psi min.)	3 1/4" 4 1/2"	3" 4"	3 1/2" 3 1/2"	5,200 6,800	2,600 3,400

ALTERNATE FASTENERS:
 (1) 1/2" TAPTITE II SCREW ANCHOR
 (1) 3/8" TAPTITE II SCREW ANCHOR
 (1) WELD 3 SIDES
 (2) 1/2" KH-EZ SCREW ANCHOR
 (2) 3/8" KH-EZ SCREW ANCHOR
 (2) M16 8.8 for HALFEN HTA EMBD
 (2) M16 8.8F for HILTI HAC-70 EMBD

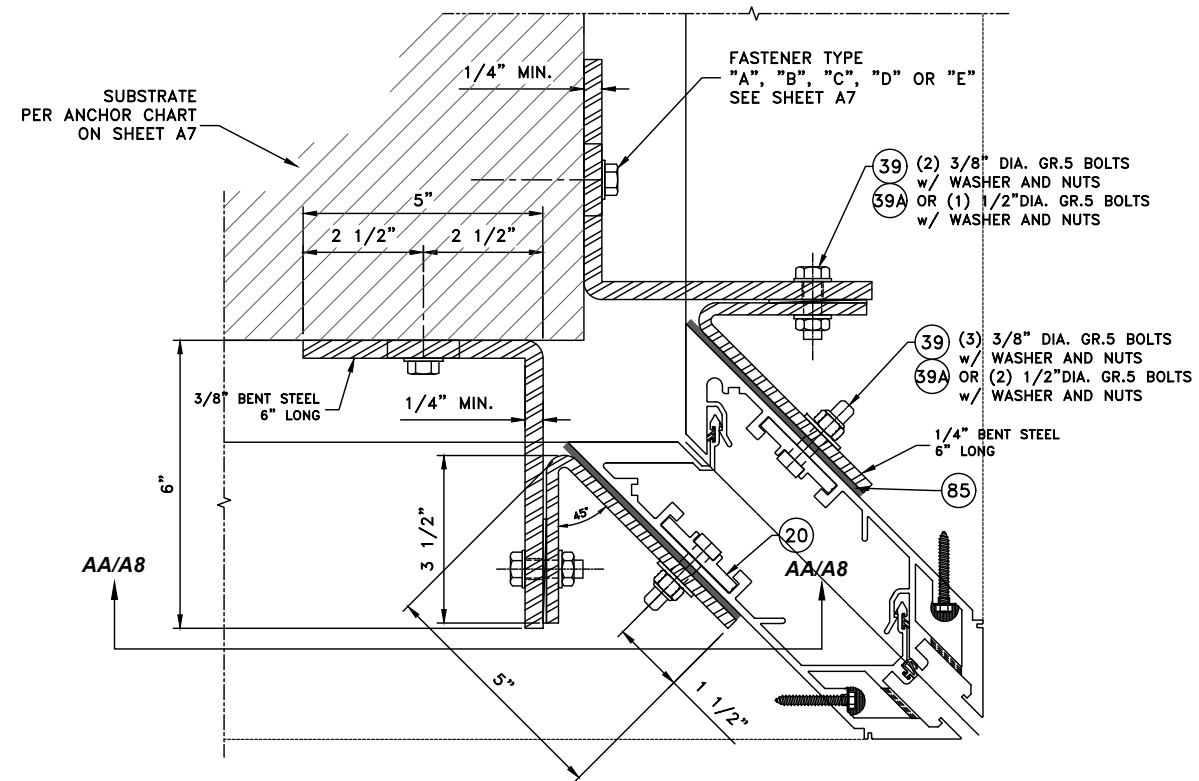
* FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL WITH (3) ADDITIONAL THREADS.
 ** EMBEDMENT & EDGE DISTANCE MAY BE SMALLER UNDER LOWER LOADS AND MUST BE CHECKED FOR EACH PROJECT BY A FL LICENSED ENGINEER.

NOTE:
 1. ANCHORING OF CURTAIN WALL SYSTEM TO SUPPORTING STRUCTURE IS THE RESPONSIBILITY OF THE DELEGATED FL LICENSED ENGINEER FOR THE PROJECT.
 2. DIMENSIONS SHOWN MAY BE MODIFIED AS SPECIFIED BY THE ARCHITECT OR FL. LICENSED ENGINEER.

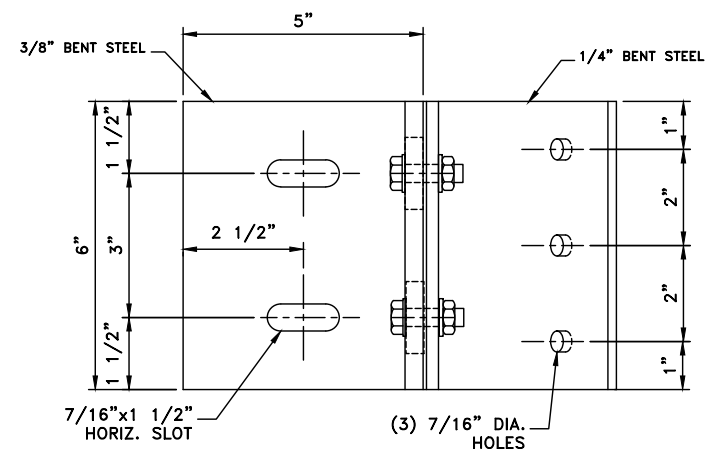
T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		REVISIONS	
CT WINDOWS d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES 9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824 (407) 857-9237		1	GLASS REVISION
		2	DEEP MULLION ADDED
		3	
		4	
		5	
DRAWN BY: HG			
DATE: 02/14/2024			



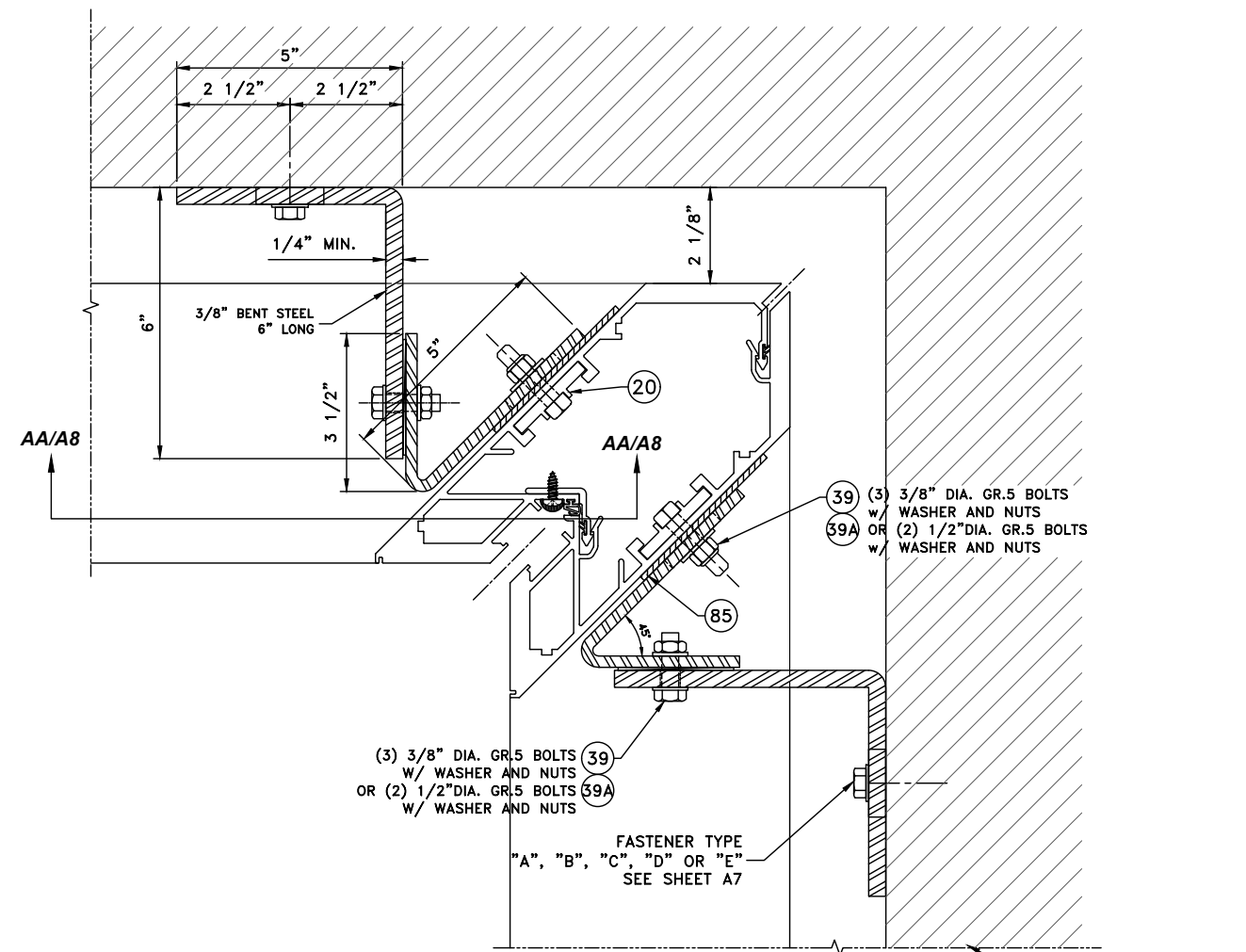
SCOTT WOLTERS FL PE# 62354	SEAL:
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
A7	
DRAWING NO. AAT2-24	
SHEET NO. 30 of 46	



1 SECTION
A8 90° OUT SIDE CORNER
ANCHOR



AA SECTION
A8 OUT SIDE CORNER
ANCHOR



2 SECTION
A8 90° IN SIDE CORNER
ANCHOR

T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		REVISIONS				
		1	GLASS REVISION	08-28-24		
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES 9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824 (407) 857-9237		2	DEEP MULLION ADDED	06-18-26		
		3				
		4				
		5				
		DRAWN BY: HG				
		DATE: 02/14/2024				



SCOTT WOLTERS FL PE# 62354	SEAL:
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
A8	
DRAWING NO. AAT2-24	
SHEET NO. 31 of 46	

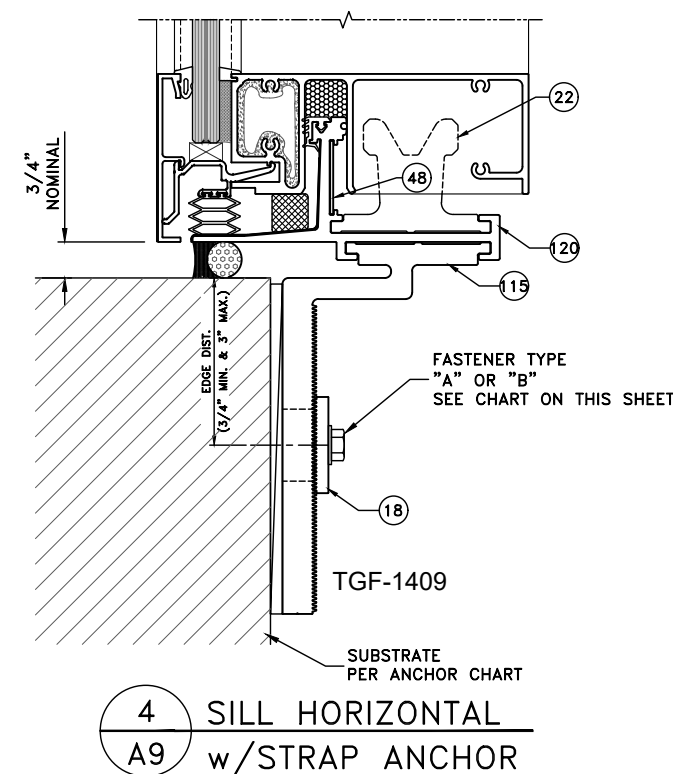
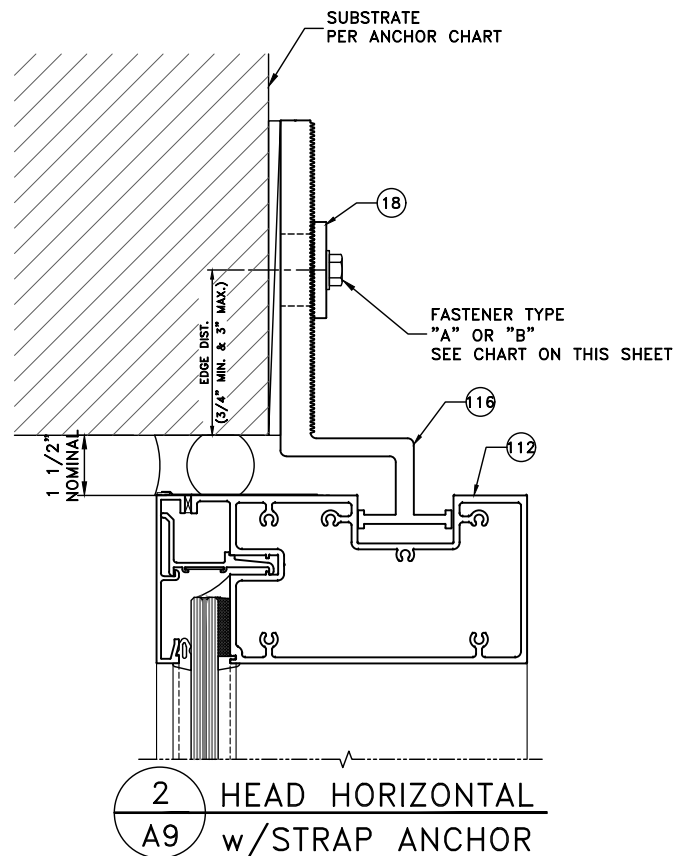
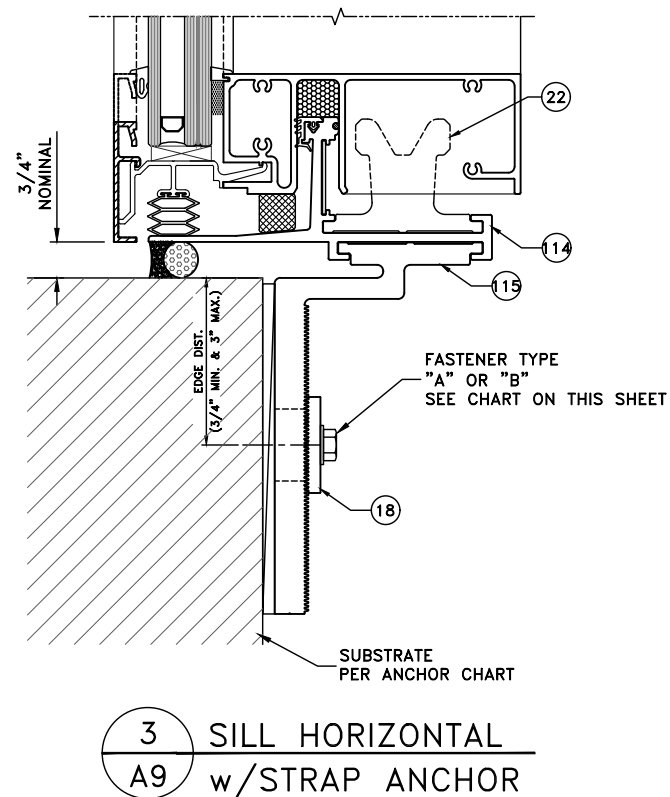
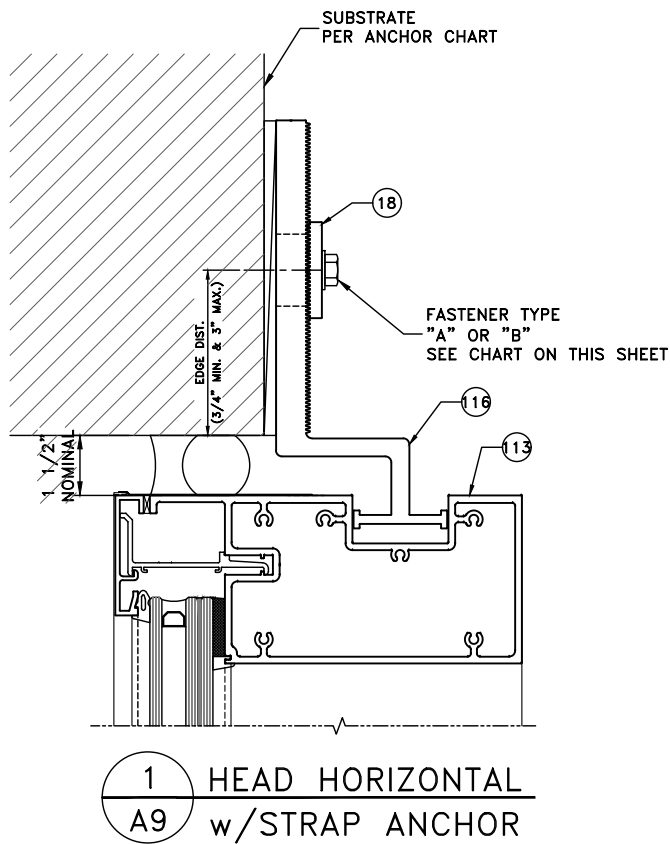


CHART A9

ANCHOR SCHEDULE (FASTENER)				
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (MIN.)	SPACING DISTANCE (MIN.)
A	(1) 1/2" DIA. DeWALT TAP-FLEX (1) PER JAMB, (2) PER MULLION	STEEL (3/8" min.) Fu = 65 ksi	FULL *	6"
B	(2) M12 HALFEN HTA EMBED (1) PER JAMB, (2) PER MULLION	** CONCRETE (4000 PSI MIN.)	-	4 1/2"

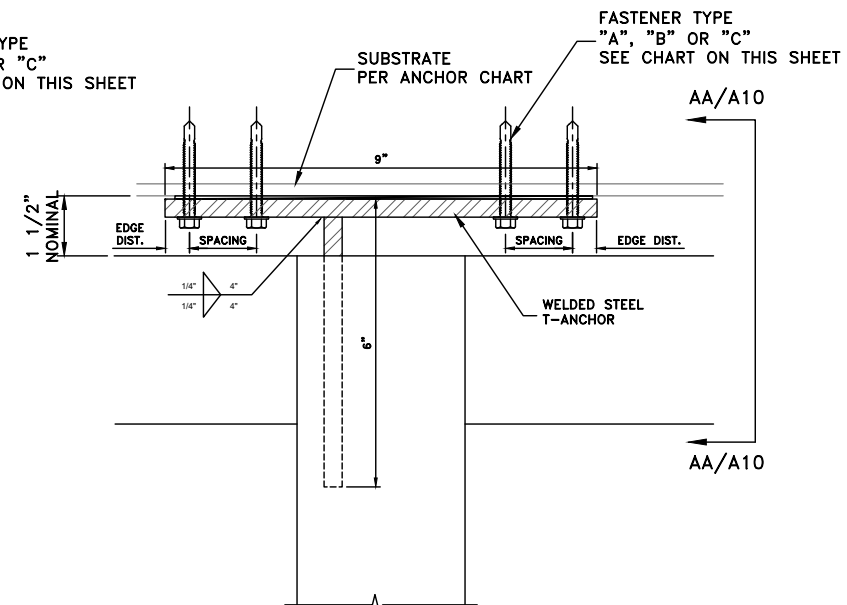
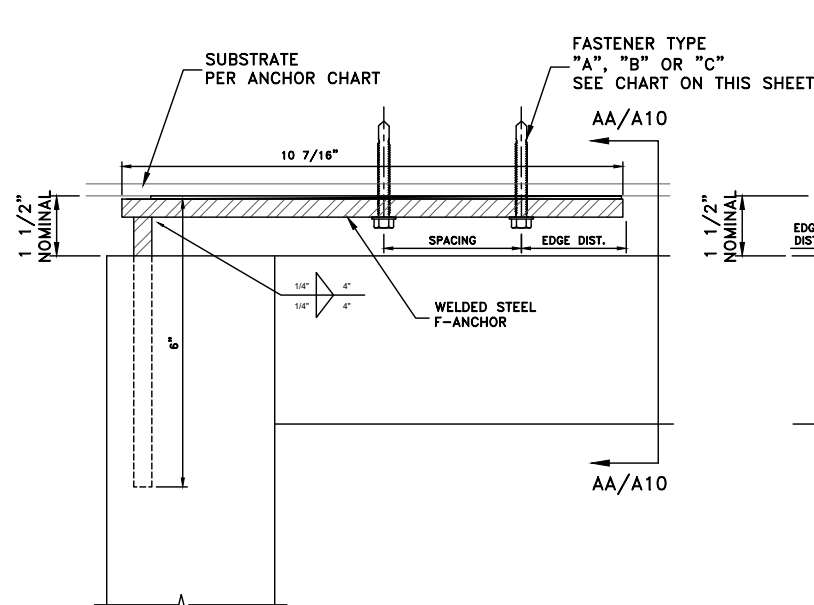
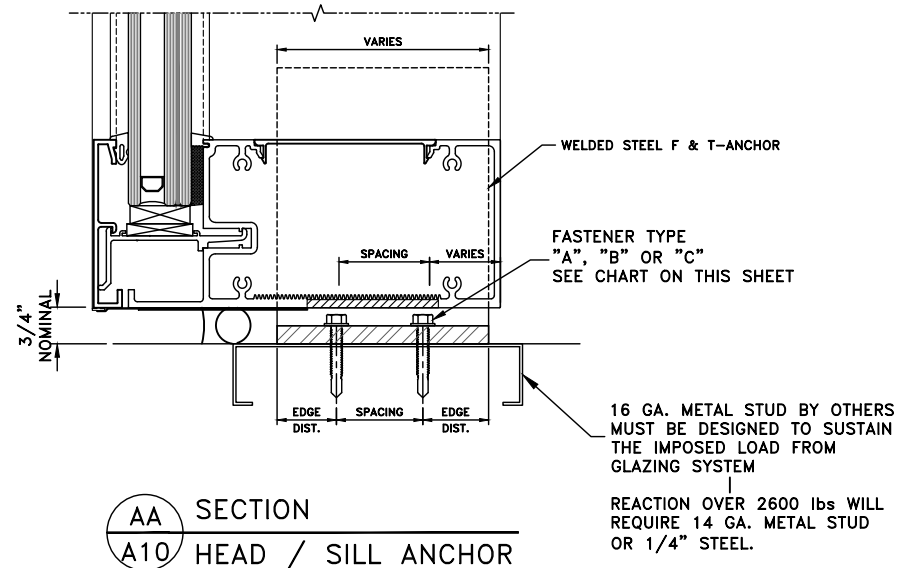
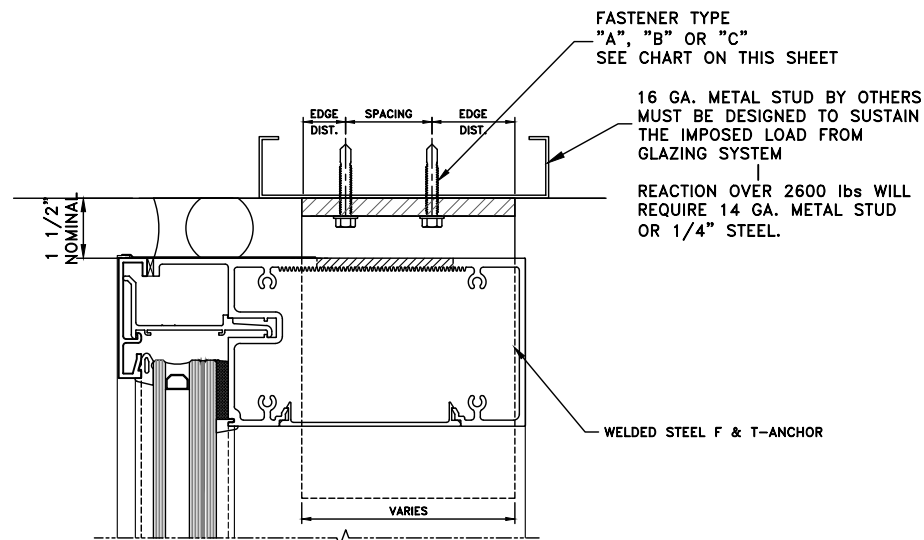
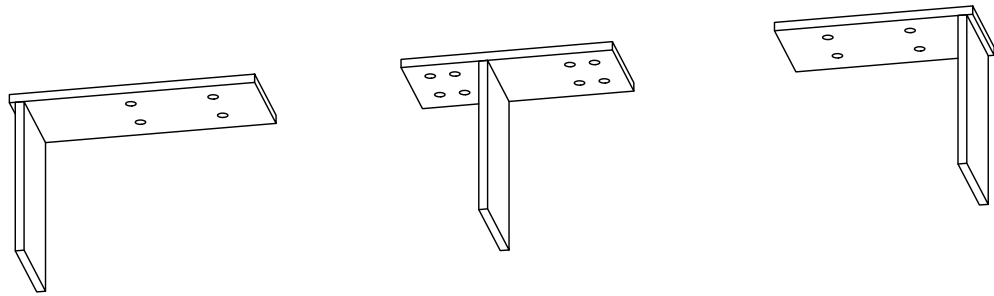
ALTERNATE FASTENERS:
(1) 1/2" TAPTITE II SCREW ANCHOR
(2) 1/2" KH-EZ SCREW ANCHOR
(2) M12 8.8F for HILTI HAC-70 EMBED

* FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL WITH (3) ADDITIONAL THREADS.
** ANCHORS INTO CONCRETE MAY BE USED, AS APPROVED BY CALCULATIONS FROM A FL LICENSED ENGINEER.

T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		REVISIONS		
		1	GLASS REVISION	08-28-24
		2	DEEP MULLION ADDED	06-18-26
		3		
		4		
		5		
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES 9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824 (407) 857-9237		DRAWN BY: HG		
		DATE: 02/14/2024		



SCOTT WOLTERS FL PE# 62354	SEAL:
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
A9	
DRAWING NO. AAT2-24	
SHEET NO. 32 of 46	



1 HEAD / SILL ANCHOR
A10 (4) FASTENERS
MAX. END REACTION 1300 lbs.

2 HEAD / SILL ANCHOR
A10 (8) FASTENERS
MAX. END REACTION 2600 lbs.

CHART A10

ANCHOR SCHEDULE (HEAD / SILL FASTENER)					
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (MIN.)	EDGE DISTANCE (MIN.)	SPACING DISTANCE (MIN.)
A	(1) 5/16" DIA. ELCO DRIL-FLEX (4) PER JAMB, (8) PER MULLION	16 Ga. STEEL (Fu = 45 ksi min.)	FULL *	1/2"	15/16"
B	(2) 1/4" DIA. ELCO DRIL-FLEX (4) PER JAMB, (8) PER MULLION	16 Ga. STEEL (Fu = 45 ksi min.)	FULL *	1/2"	3/4"
C	(2) 1/4" DIA. TAPTITE II (4) PER JAMB, (8) PER MULLION	16 Ga. STEEL (Fu = 45 ksi min.)	FULL *	1/2"	3/4"

ALTERNATE FASTENERS:

- (1) 5/16" SELF DRILLING SCREW GRADE 5
(2) 1/4" SELF DRILLING SCREW GRADE 5

* FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL WITH (3) ADDITIONAL THREADS.

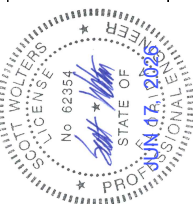
CHART A10b

MAX CAULK JOINT WIDTH	MAX MULLION END REACTION
3/4"	2600 LB **
1"	2300 LB
1 1/2"	1700 LB

** MAX REACTION FOR ALL MULLION CONFIGURATIONS.

NOTE:
1. MAXIMUM SHIM SPACE IS THE RESPONSIBILITY OF THE DELEGATED FL LICENSED ENGINEER FOR EACH PROJECT.

T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		REVISIONS				
		1	GLASS REVISION	08-28-24		
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES 9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824 (407) 857-9237		2	DEEP MULLION ADDED	06-18-26		
		3				
		4				
		5				
		DRAWN BY: HG				
		DATE: 02/14/2024				



SCOTT WOLTERS FL PE# 62354	SEAL:
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
A10	
DRAWING NO. AAT2-24	
SHEET NO. 33 of 46	

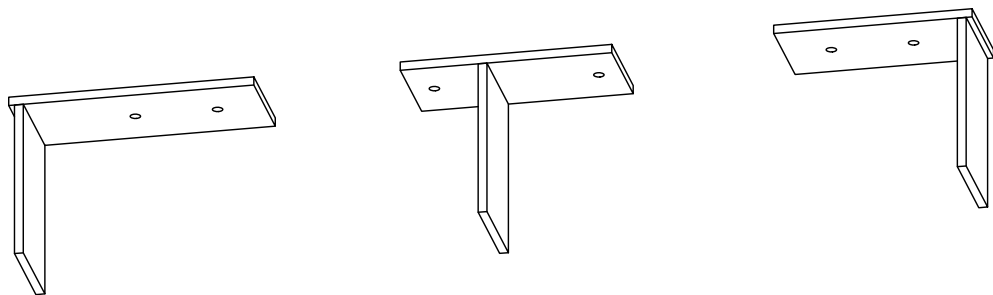
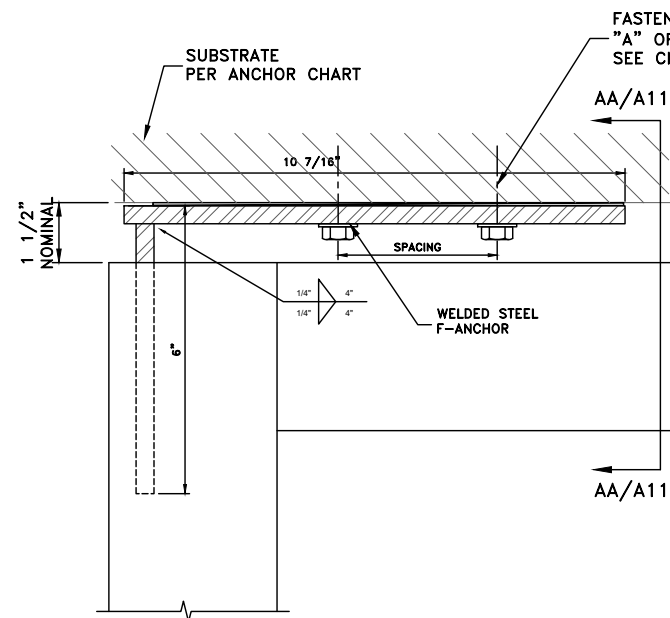


CHART A11

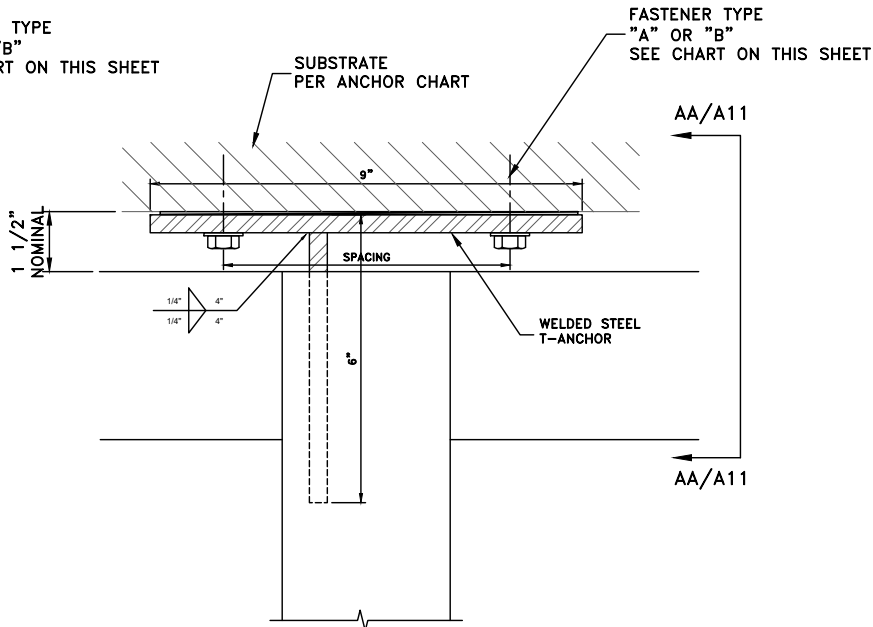
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (MIN.)**	EDGE DISTANCE (MIN.)*	SPACING DISTANCE (MIN.)	MAX END REACTION (lb.)					
						MULLION			JAMB		
						CAULK JOINT WIDTH			CAULK JOINT WIDTH		
						3/4"	1"	1 1/2"	3/4"	1"	1 1/2"
A	(1) 1/2" DIA. DeWALT TAP-FLEX (2) PER JAMB, (2) PER MULLION	1/4" STEEL (A36 min.) 3/8" STEEL (A36 min.)	* FULL * FULL	1 1/4" 1 1/4"	6" at MULL's 3" at JAMB's	4,200	4,200	4,000	2,500	2,500	2,500
						4,200	4,200	4,200	2,500	2,500	2,500
B	(2) 1/2" DIA. DeWALT SCREW BOLT + (2) PER JAMB, (2) PER MULLION	CONCRETE (4000 psi min.)	3" 4 1/4"	4 1/2" 6"	6" at MULL's 3" at JAMB's	3,050	2,900	2,600	2,500	2,400	2,100
						3,700	3,550	3,200	2,500	2,500	2,500

ALTERNATE FASTENERS:
(1) 1/2" TAPTITE II SCREW ANCHOR
(2) 1/2" KH-EZ SCREW ANCHOR
(2) M16 8.8 for HALFEN HTA EMBED
(2) M16 8.8F for HILTI HAC-70 EMBED

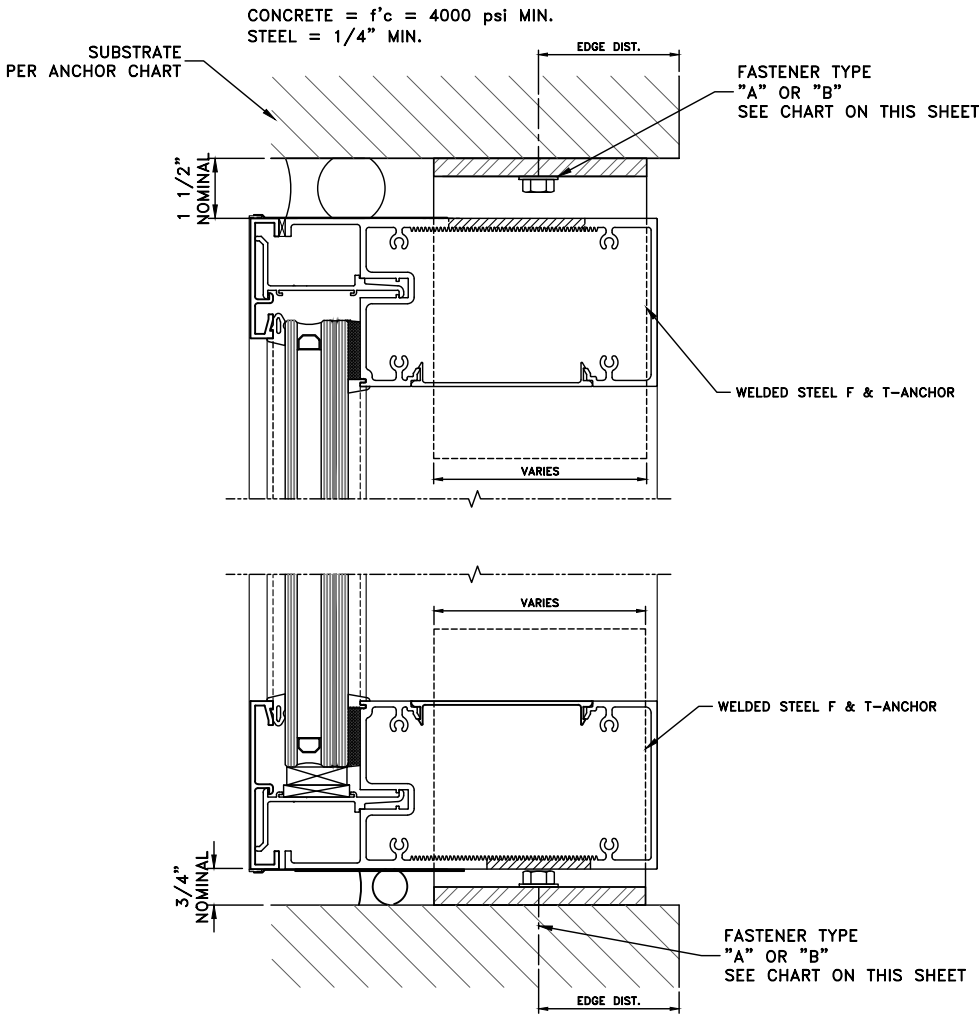
* FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL WITH (3) ADDITIONAL THREADS.
** EMBEDMENT & EDGE DISTANCE MAY BE SMALLER UNDER LOWER LOADS AND MUST BE CHECKED FOR EACH PROJECT BY A FL LICENSED ENGINEER.



1 HEAD / SILL ANCHOR
A11 (2) FASTENERS



2 HEAD / SILL ANCHOR
A11 (2) FASTENERS



AA SECTION
A11 HEAD / SILL ANCHOR

NOTE:
1. MAXIMUM SHIM SPACE IS THE RESPONSIBILITY OF THE DELEGATED FL LICENSED ENGINEER FOR EACH PROJECT.

REVISIONS		GLASS REVISION	08-28-24
1	2	DEEP MULLION ADDED	06-18-26
3	4		
5			

DRAWN BY: HG
DATE:02/14/2024

T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)
CT WINDOWS
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824
(407) 857-9237



SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

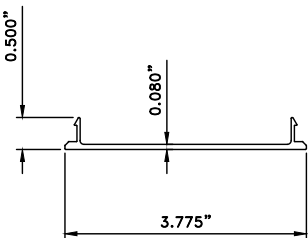
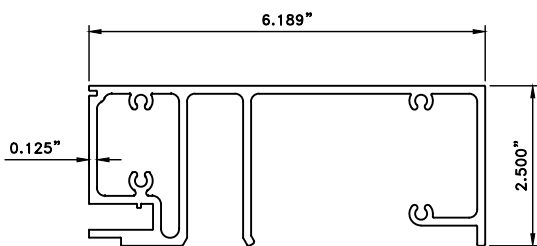
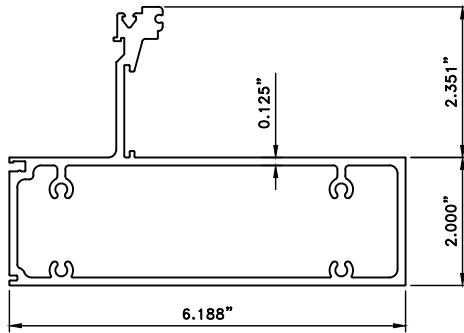
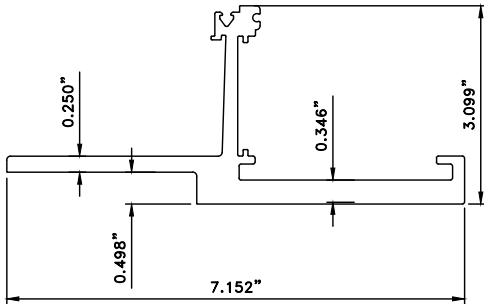
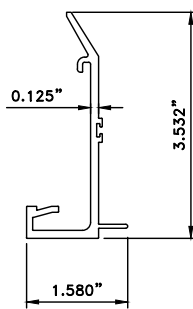
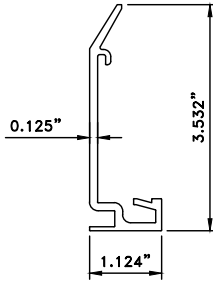
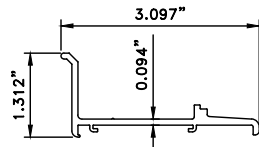
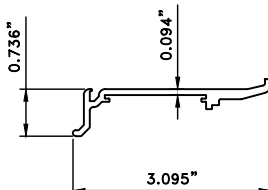
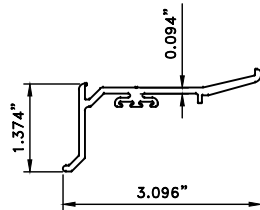
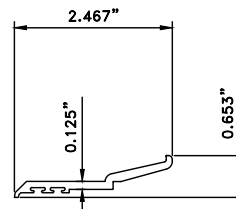
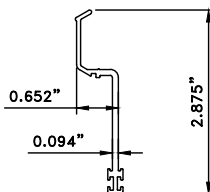
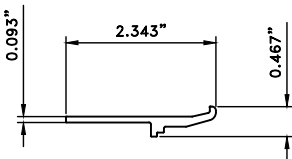
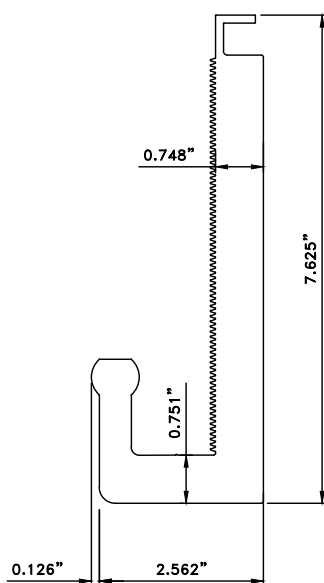
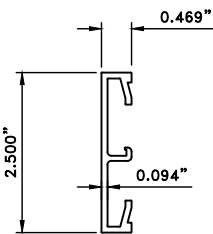
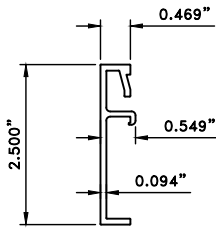
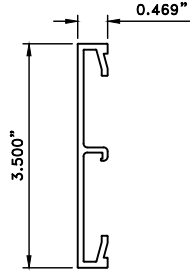
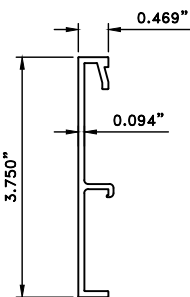
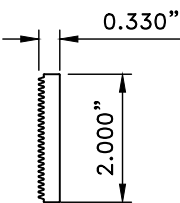
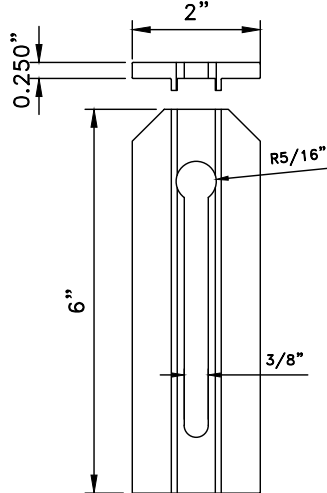
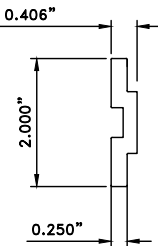
A11

DRAWING NO.

AAT2-24

SHEET NO.

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1	GLASS REVISION	08-28-24																			
2	DEEP MULLION ADDED	06-18-26																			
3																					
4																					
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T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES

9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824

(407) 857-9237

SCOTT WOLTERS

FL PE# 62354

WOLTERS ENGINEERING

(COA# 27194)

15211 97TH ROAD N

WEST PALM BEACH, FL 33412

PH/FAX:(561)225-1982

P1

DRAWING NO.

AAT2-24

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T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES

9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824

(407) 857-9237



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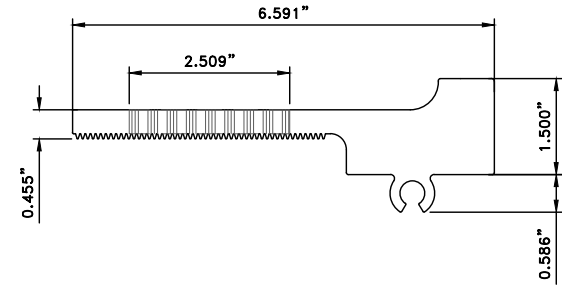
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
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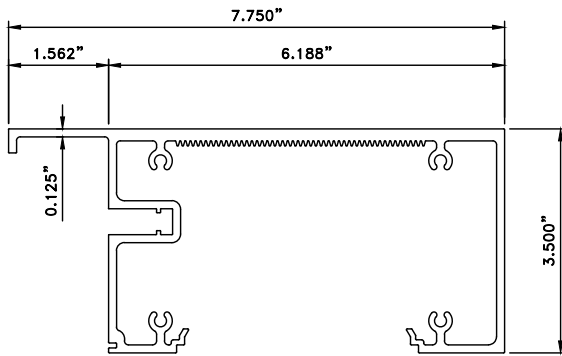
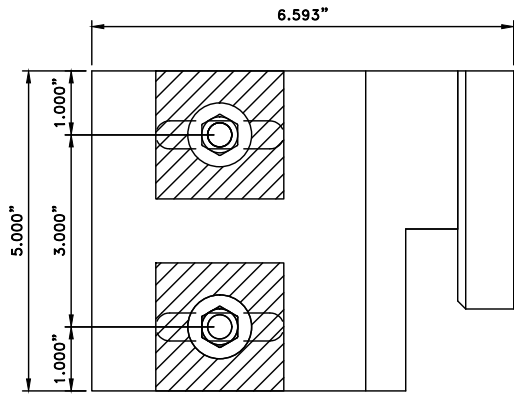
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DRAWING NO.
AAT2-24

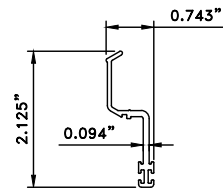
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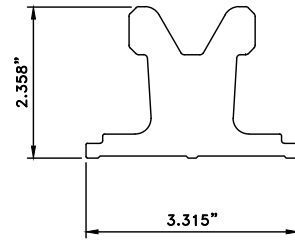
19 MULLION MID SPAN ANCHOR
TGF-1403 ALUM.6063-T6



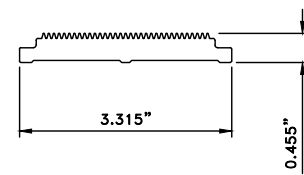
28 FRAME HEAD MULLION
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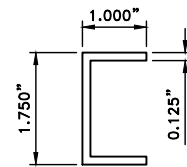
31 VERTICAL DRY GASKET ADEPTER
TGF-1308 ALUM.6063-T6
FOR 9/16\"/>



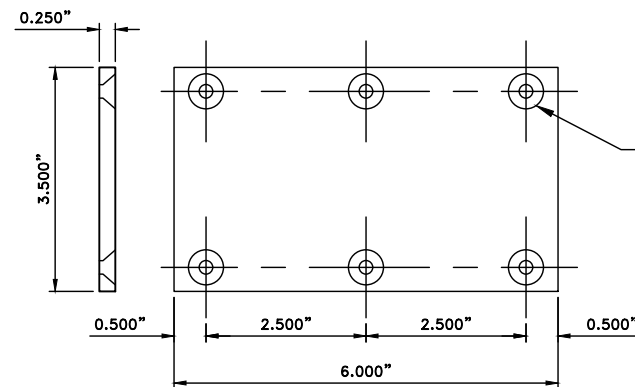
22 MULLION LUG
TGF-1411 ALUM.6063-T6



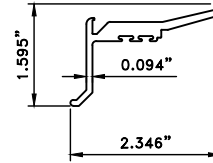
23 SERRATED ANCHOR
TGF-1412 ALUM.6063-T6



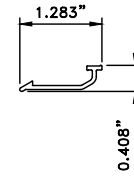
29 ALUM. FRAME FILLER
SAF-5714 ALUM.6063-T6



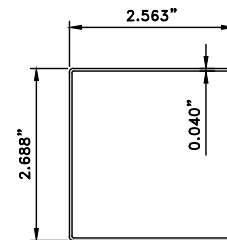
79 TAPPING PLATE
ALUM.6063-T6



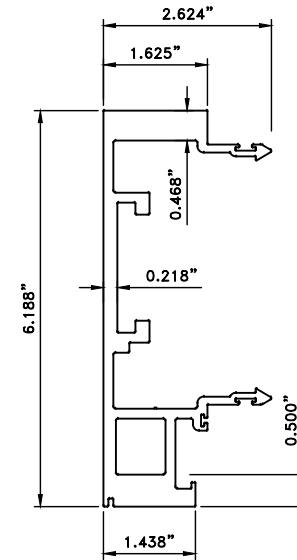
24 SILL CAP COVER ADAPTER
TGF-1304 ALUM.6063-T6



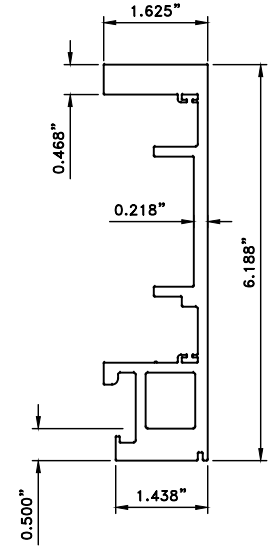
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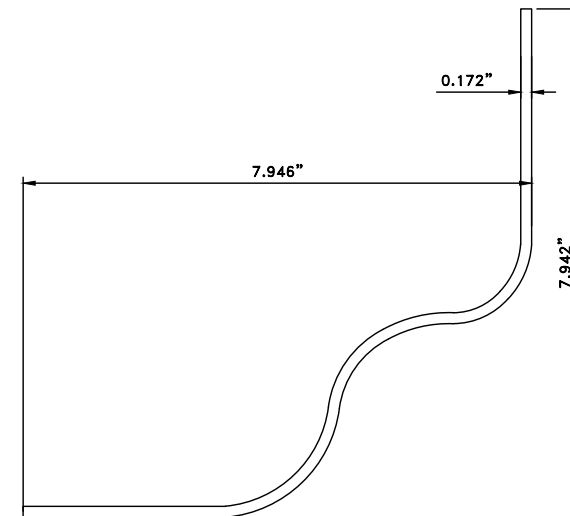
30 ALUM. FRAME FILLER
.040 ALUM. BRAKE



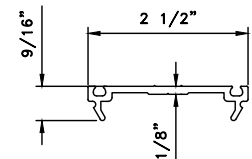
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TGF-1101 ALUM.6063-T6



27 FEMALE MULLION
TGF-1102 ALUM.6063-T6

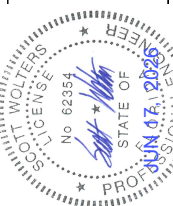


33 DOWSIL 123 SILICONE WATER BARRIER
DC 123 SILICONE

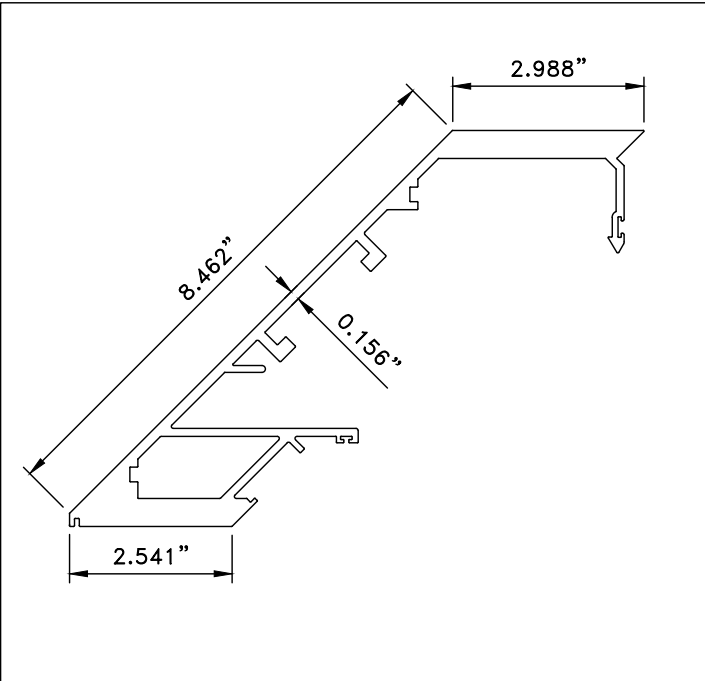
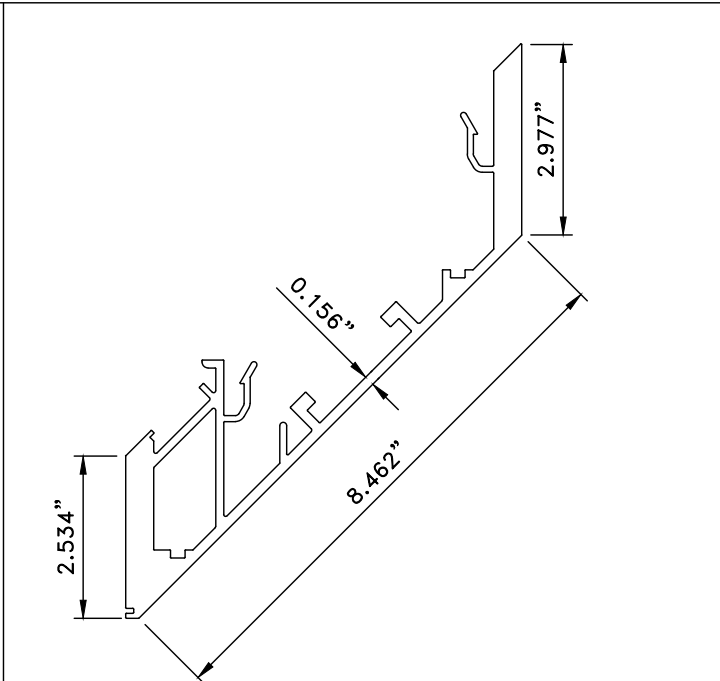
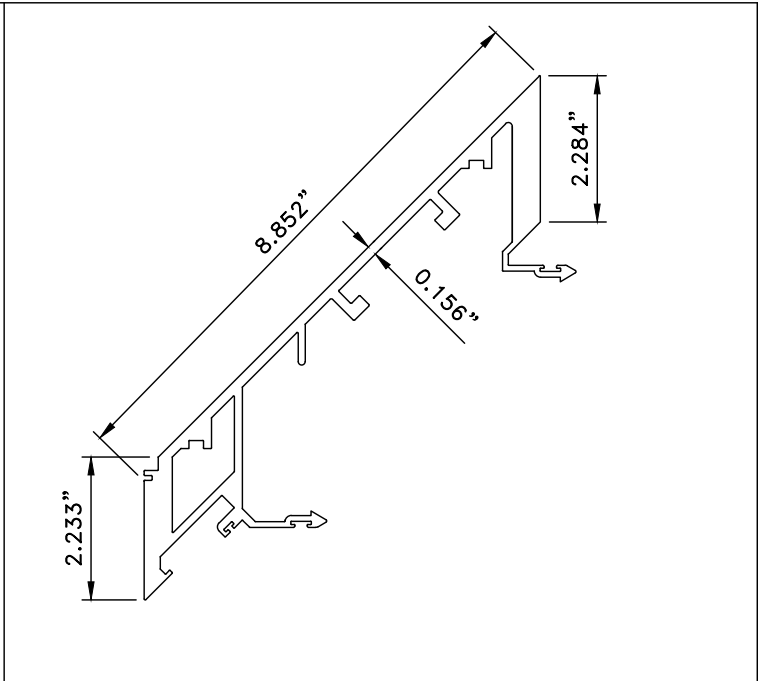
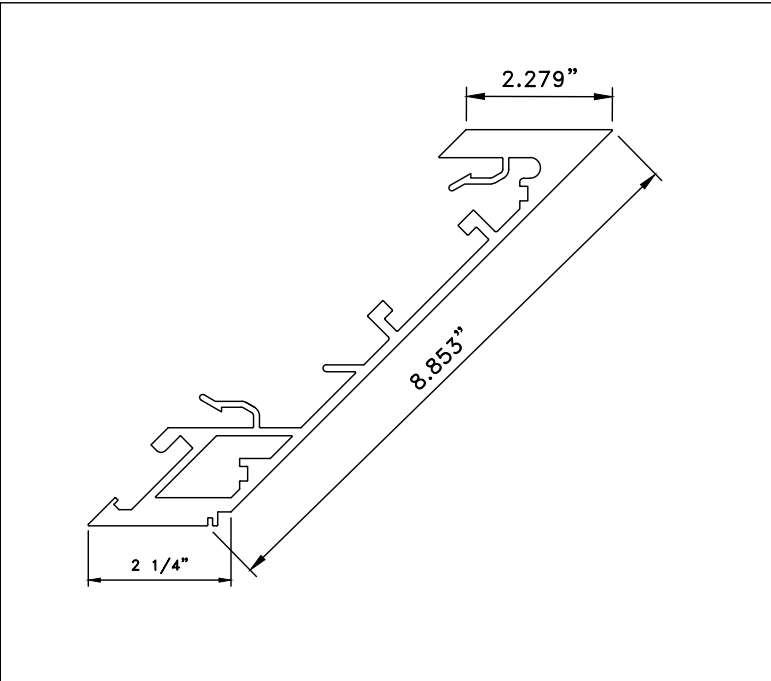
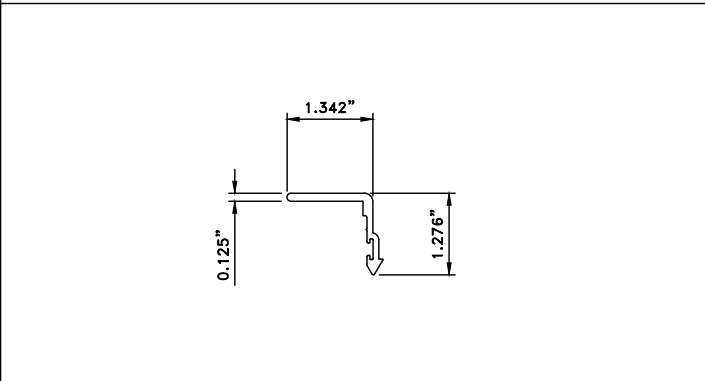
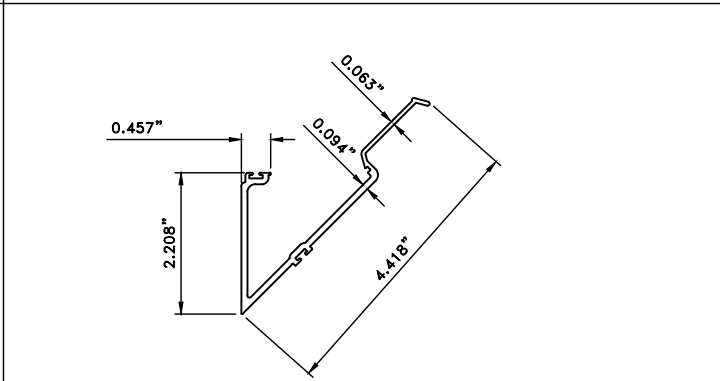
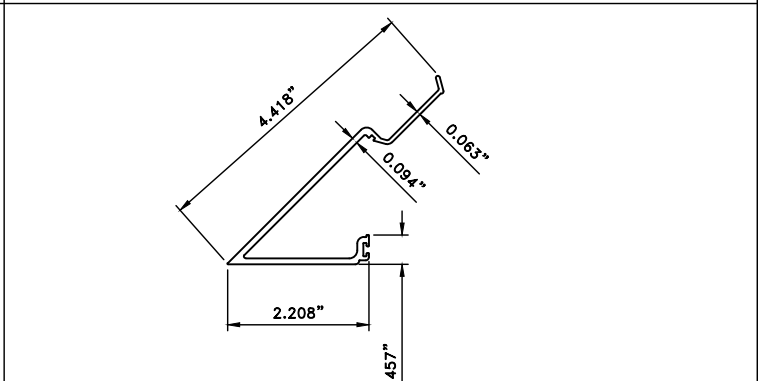
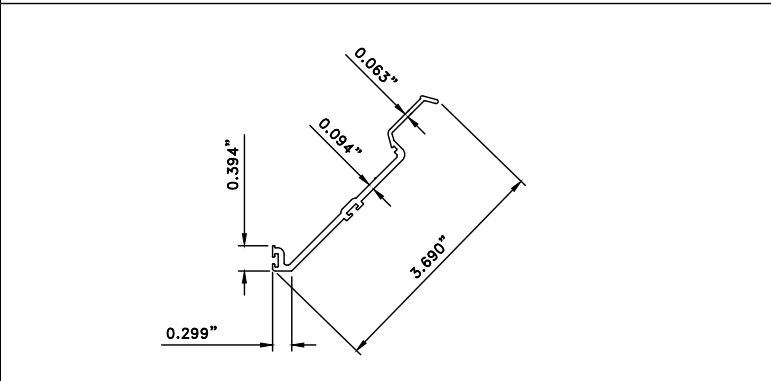
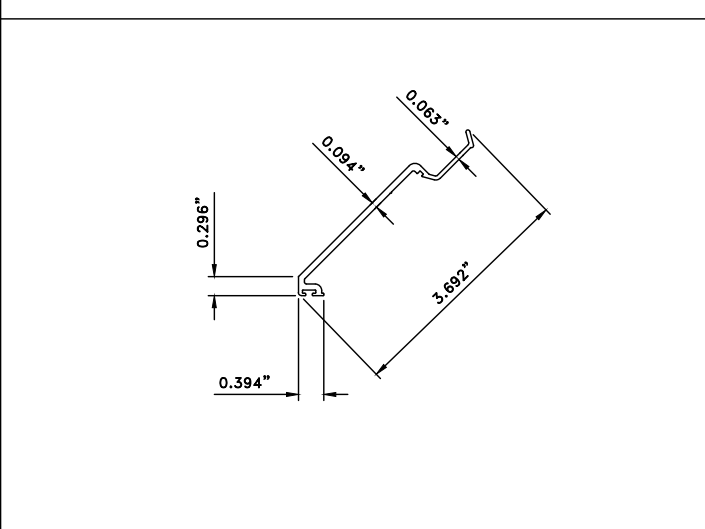
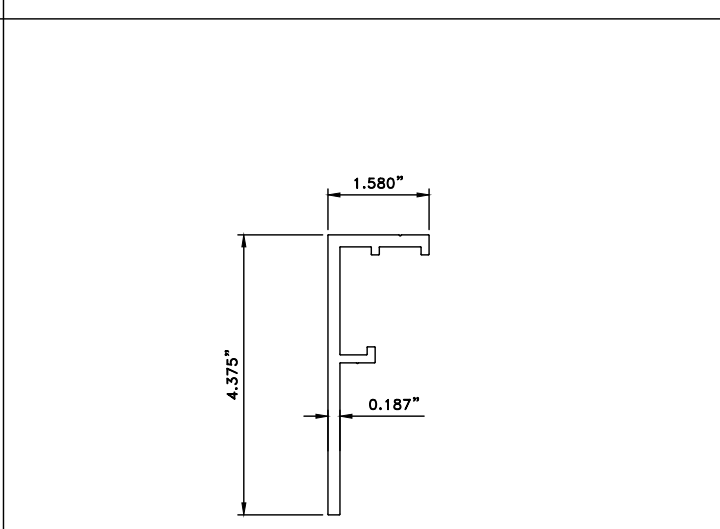
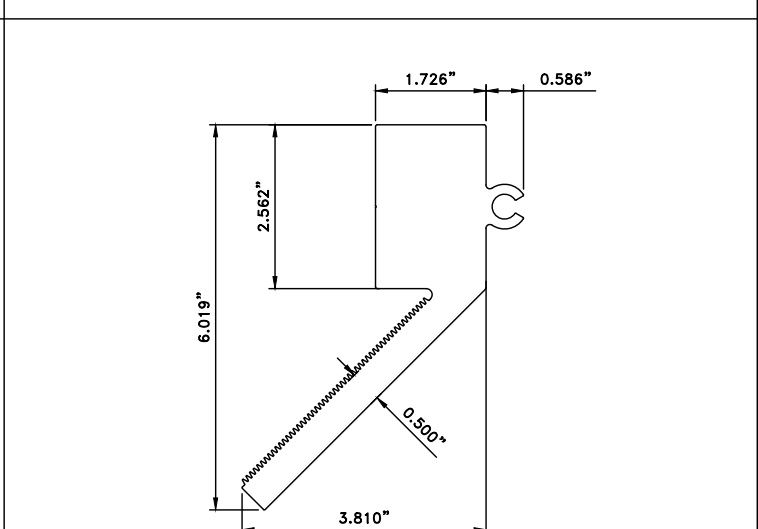
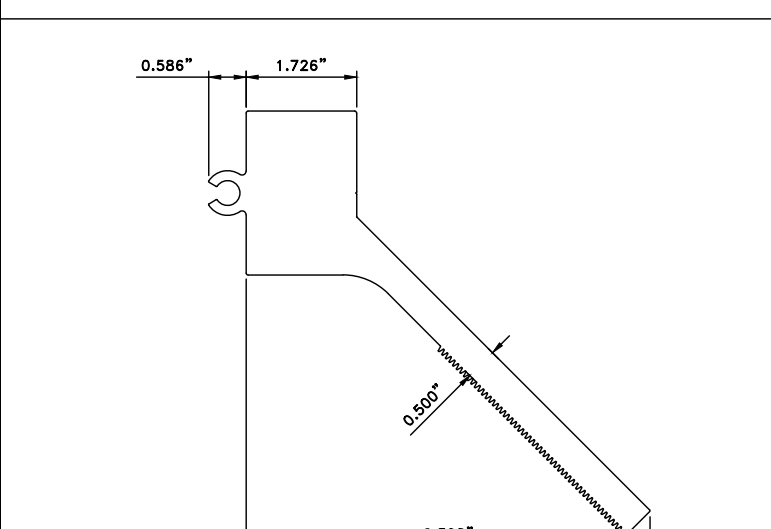


61 PRESSURE PLATE
162335 ALUM.6063-T6

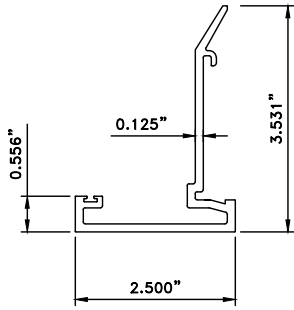
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1	GLASS REVISION	08-28-24	2	DEEP MULLION ADDED
1			2	
2			3	
3			4	
4			5	
DRAWN BY: HG				
DATE: 02/14/2024				
T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)				
CT WINDOWS				
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES				
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824				
(407) 857-9237				



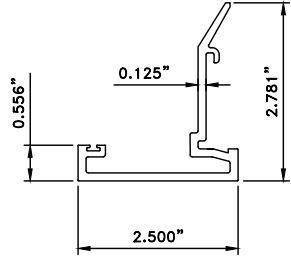
SCOTT WOLTERS FL PE# 62354	SEAL:
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	
P2	
DRAWING NO. AAT2-24	
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 67 90° INSIDE CORNER MALE MULLION TGF-1110 ALUM.6063-T6	 68 90° INSIDE CORNER FEMALE MULLION TGF-1111 ALUM.6063-T6	 69 90° OUTSIDE CORNER MALE MULLION TGF-1112 ALUM.6063-T6	 70 90° OUTSIDE CORNER MALE MULLION TGF-1113 ALUM.6063-T6
 71 90° INSIDE CORNER ANTI BUCKLING CLIP CTW-1115 ALUM.6063-T6	 72 OUTSIDE CORNER CLOSER FOR 1 5/16 GLASS TGF-1352 ALUM.6063-T6	 73 OUTSIDE CORNER CLOSER FOR 1 5/16 GLASS TGF-1353 ALUM.6063-T6	 74 INSIDE CORNER CLOSER FOR 1 5/16 GLASS TGF-1356 ALUM.6063-T6
 75 INSIDE CORNER CLOSER FOR 1 5/16 GLASS TGF-1357 ALUM.6063-T6	 76 J-ANCHOR COVER TGF-1404 ALUM.6005-T5	 77 CORNER ANCHOR BRACKET TGF-1407 ALUM.6063-T6	 78 CORNER ANCHOR BRACKET TGF-1408 ALUM.6063-T6

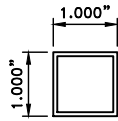
T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		REVISIONS				
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES 9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824 (407) 857-9237		1	GLASS REVISION	08-28-24		
		2	DEEP MULLION ADDED	06-18-26		
		3				
		4				
		5				
DRAWN BY: HG						
DATE: 02/14/2024						
SCOTT WOLTERS FL PE# 62354		SEAL:				
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982		P3				
		DRAWING NO. AAT2-24				
		SHEET NO. 37 of 46				



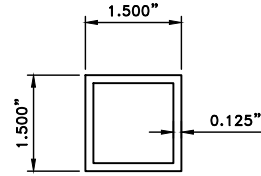
81 JAMB FACE COVER
TGF-1325 ALUM.6063-T6



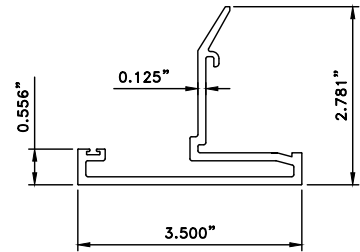
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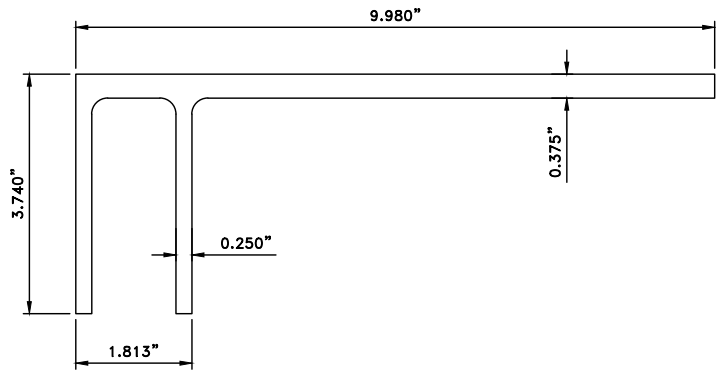
83 SQUARE BOX TUBE
- ALUM.6063-T6



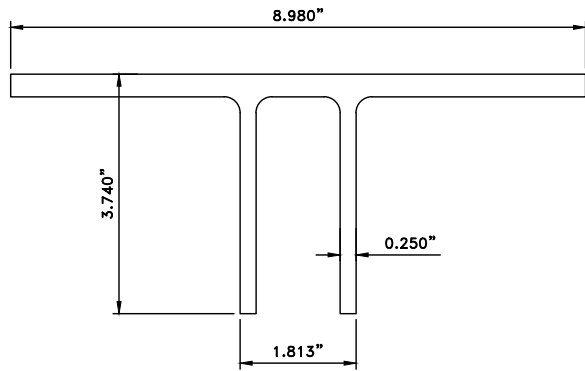
84 SQUARE BOX TUBE
- ALUM.6063-T6



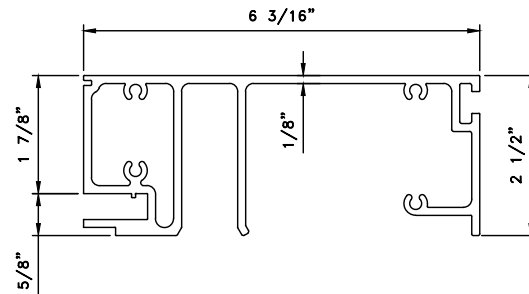
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TGF-1363 ALUM.6063-T6



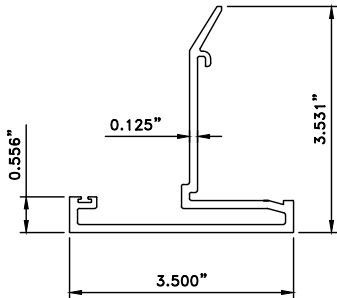
86 "F" ANCHOR
TGF-1413 ALUM.6005-T5



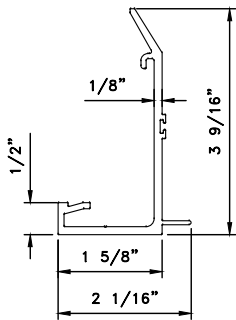
87 "T" ANCHOR
TGF-1414 ALUM.6005-T5



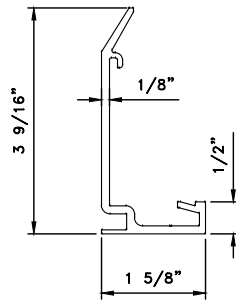
93 FRAME SILL (OPTION)
TGF-1205 ALUM.6063-T6



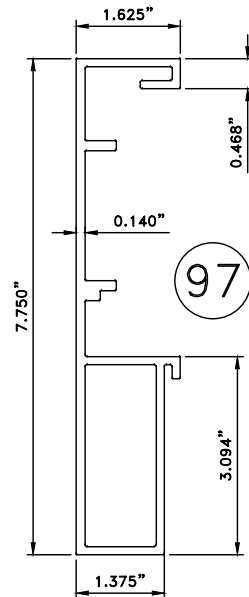
92 JAMB FACE COVER
TGF-1364 ALUM.6063-T6



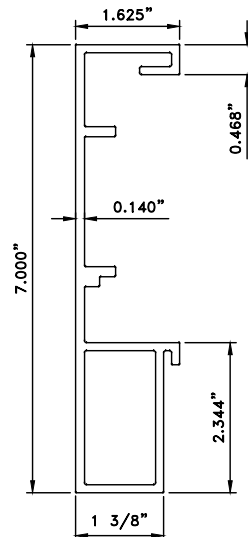
94 MALE MULLION CLOSURE
TGF-1321 ALUM.6063-T6



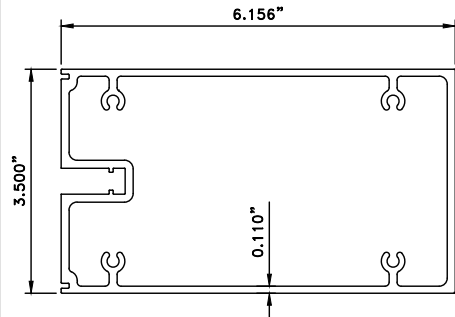
95 FEMALE MULLION CLOSURE
TGF-1322 ALUM.6063-T6



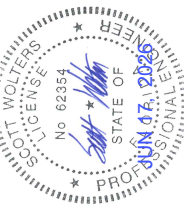
97 JAMB MULLION
TGF-1104 ALUM.6063-T6



99 JAMB MULLION
TGF-1103 ALUM.6063-T6



100 HORIZONTAL MULLION
CTW- 1203 ALUM.6063-T6



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FL PE# 62354
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

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DRAWING NO.
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SHEET NO.

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T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

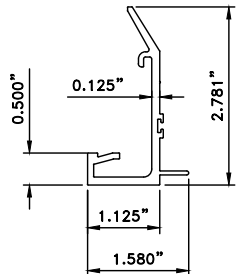
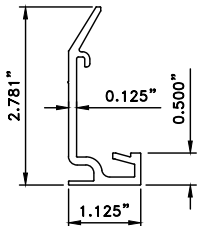
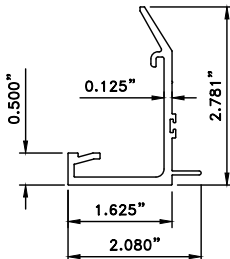
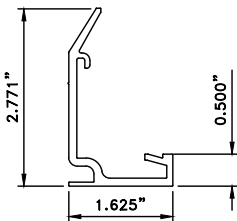
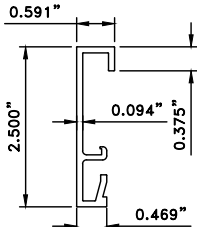
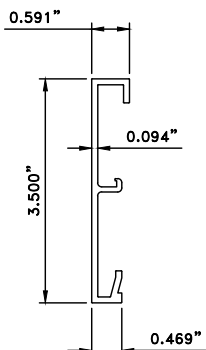
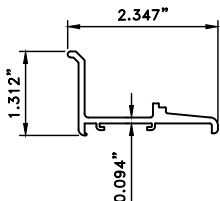
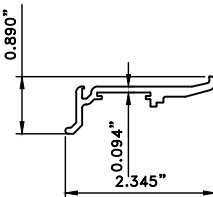
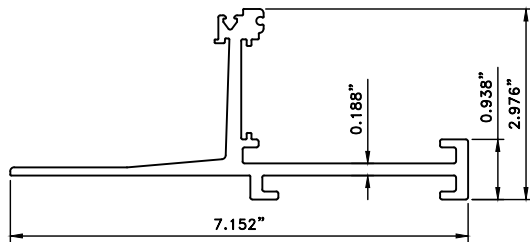
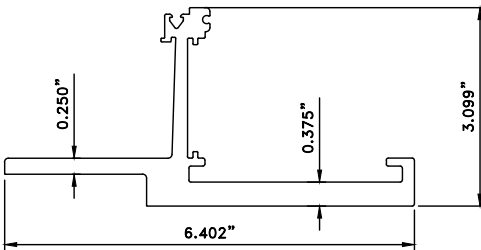
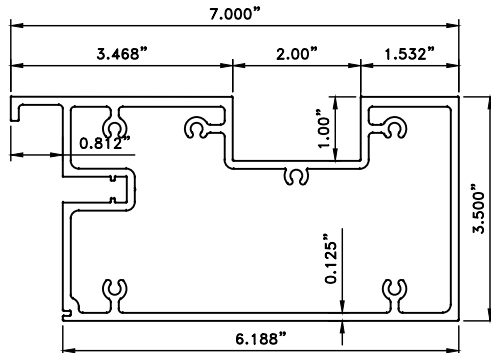
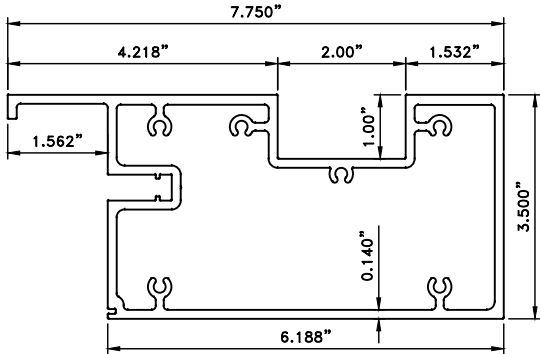
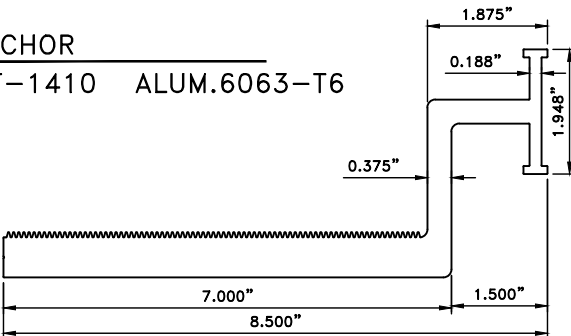
CT WINDOWS
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824
(407) 857-9237

REVISIONS

1	GLASS REVISION	08-28-24
2	DEEP MULLION ADDED	06-18-26
3		
4		
5		

DRAWN BY: HG

DATE:02/14/2024

					REVISIONS <table><tr><th>GLASS REVISION</th><th>08-28-24</th></tr><tr><td>1</td><td>DEEP MULLION ADDED</td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>4</td><td></td></tr><tr><td>5</td><td></td></tr></table> DRAWN BY: HG DATE: 02/14/2024	GLASS REVISION	08-28-24	1	DEEP MULLION ADDED	2		3		4		5	
GLASS REVISION	08-28-24																
1	DEEP MULLION ADDED																
2																	
3																	
4																	
5																	
101 MALE MULLION CLOSURE TGF-1301 ALUM.6063-T6	102 FEMALE MULLION CLOSURE TGF-1302 ALUM.6063-T6	103 MALE MULLION CLOSURE TGF-1368 ALUM.6063-T6	109 SILL #STACK HORIZONTAL SITTING CHAIR TGF-1307 ALUM.6063-T6	110 ADAPTER HEAD STACK HORIZ. TGF-1346 ALUM.6063-T6 FOR 1 5/16" GLASS													
																	
106 HEAD GLAZING COVER TGF-1336 ALUM.6063-T6	107 GLAZING ADAPTER TGF-1303 ALUM.6063-T6	108 GLAZING ADAPTER TGF-1305 ALUM.6063-T6	115 ANCHOR TGF-1409 ALUM.6063-T6														
																	
111 SILL STARTER TGF-1208 ALUM.6063-T6	112 FRAME HEAD MULLION TGF-1216 ALUM.6063-T6	113 FRAME HEAD MULLION TGF-1217 ALUM.6063-T6	116 ANCHOR TGF-1410 ALUM.6063-T6														

T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES

9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824

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FL PE# 62354

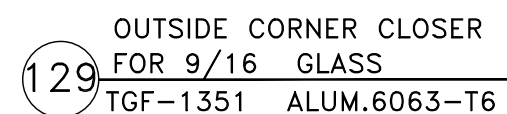
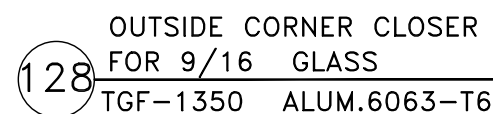
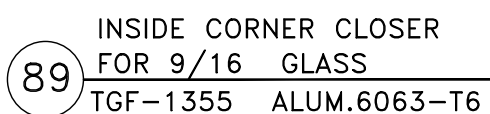
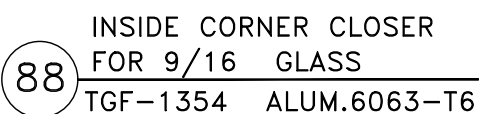
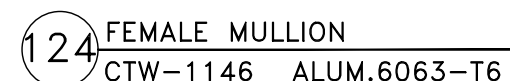
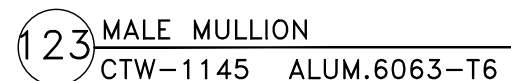
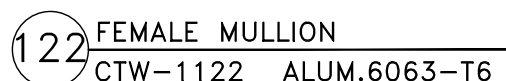
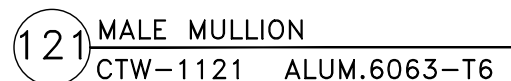
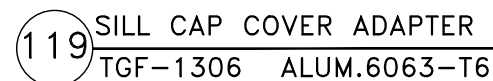
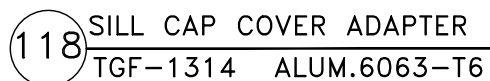
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

SEAL:

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DRAWING NO.
AAT2-24

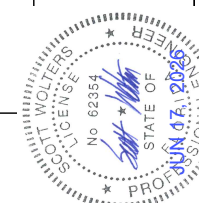
SHEET NO.
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REVISIONS	
1	GLASS REVISION 08-28-24
2	DEEP MULLION ADDED 06-18-26
3	
4	
5	

T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824
(407) 857-9237



SEAL: SCOTT WOLTERS
FL PE# 62354

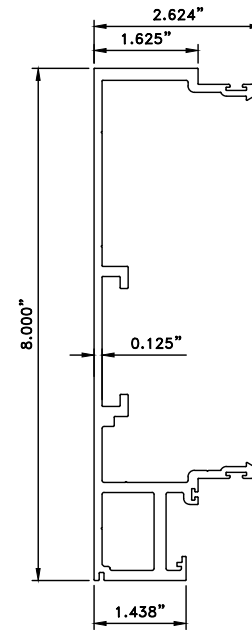
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
DU / FAX / E-MAIL 4090

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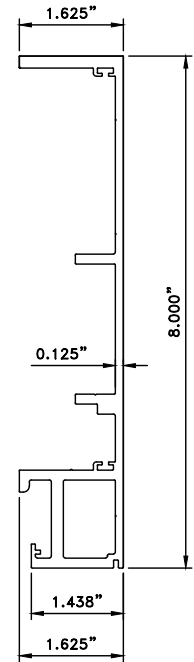
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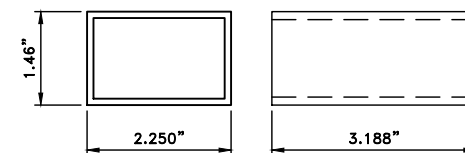
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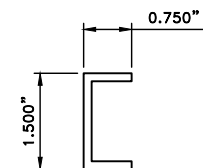
130 MALE MULLION
CTW-1143 ALUM.6063-T6



131 FEMALE MULLION
CTW-1144 ALUM.6063-T6



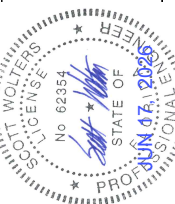
132 RECTANGLE TUBE
EMS 20-63-805 ALUM.6063-T6



134 C-CHANNEL
SAF4301 ALUM.6063-T6

DRAWN BY: HG		DATE: 02/14/2024	
1	GLASS REVISION	08-28-24	
2	DEEP MULLION ADDED	06-18-26	
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CT WINDOWS
d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES
T850 CURTAIN WALL LEVEL D OF E IMPACT - (LMI & SMI)
9195 BOGCY CREEK ROAD, ORLANDO, FLORIDA 32824
(407) 857-9237



SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561)225-1982

P7

DRAWING NO.

SHEET NO.

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BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	TGF-1202	HORIZONTAL FILLER AT HEAD AND INTERMEDIATE	ALUM 6063-T6	BONNELL
2	TGF-1204	FRAME SILL	ALUM 6063-T6	BONNELL
3	TGF-1206	HEAD AND STACK HORIZONTAL	ALUM 6063-T6	BONNELL
4	TGF-1207	SILL STARTER, NOTCH 4" LG. AT MIDSPAN OF D.L.O.	ALUM 6063-T6	BONNELL
5	TGF-1311	MALE CLOSER	ALUM 6063-T6	BONNELL
6	TGF-1312	FEMALE CLOSER	ALUM 6063-T6	BONNELL
7	TGF-1313	HEAD AND INTER. HORIZONTAL COVER CAP ADAPTOR	ALUM 6063-T6	BONNELL
8	TGF-1315	1-5/16" CAPTURED GLAZING ADAPTOR	ALUM 6063-T6	BONNELL
9	TGF-1314	SILL COVER CAP ADAPTOR	ALUM 6063-T6	BONNELL
10	TGF-1317	SILL & STACK HORIZONTAL SETTING CHAIR	ALUM 6063-T6	BONNELL
11	TGF-1318	ALUMINUM WEATHER STRIP ADAPTOR	ALUM 6063-T6	BONNELL
12	TGF-1319	INTERMEDIATE HORIZONTAL SETTING CHAIR	ALUM 6063-T6	BONNELL
13	TGF-1331	GLAZING COVER	ALUM 6063-T6	BONNELL
14	TGF-1334	SILL COVER CAP	ALUM 6063-T6	BONNELL
15	TGF-1332	GLAZING COVER	ALUM 6063-T6	BONNELL
16	TGF-1367	SILL & STACK GLAZING COVER	ALUM 6063-T6	BONNELL
17	TGF-1401	J-HOOK ANCHOR	ALUM 6005-T5	BONNELL
18	TGF-1402	SERRATED WASHER, 2" LG.	ALUM 6005-T5	BONNELL
19	TGF-1403	MULLION MID SPAN ANCHOR	ALUM 6005-T5	BONNELL
20	TGF-1405	SPLICE/LIFTING LUG AT SPANDREL GLASS	ALUM 6005-T5	BONNELL
21	TGF-1406	JAMB SPACER	ALUM 6005-T5	BONNELL
22	TGF-1411	MULLION LUG, 3" LG. INSIDE MULLION	ALUM 6005A-T5	BONNELL
23	TGF-1412	SERRATED ANCHOR, 3" LG. AT EACH SIDE OF MULLION (OPTIONAL)	ALUM 6005A-T5	BONNELL
24	TGF-1304	SILL CAP COVER ADAPTER	ALUM 6005A-T5	BONNELL
25	TGF-1114	MULLION ANTI-BUCKLING CLIP	ALUM 6063-T5	BONNELL
26	TGF-1101	FRAME JAMB/MALE VERTICAL MULLION	ALUM 6063-T6	MI METALS, INC.
27	TGF-1102	FRAME JAMB/FEMALE VERTICAL MULLION	ALUM 6063-T6	MI METALS, INC.
28	TGF-1201	FRAME HEAD MULLION	ALUM 6063-T6	MI METALS, INC.
29	5714	ALUMINUM FRAME FILLER	ALUM 6063-T5	SAF
30	-	0.040 ALUM. BRAKE MULLION FILLER REINFORCEMENT	-	-
31	TGF-1308	VERTICAL DRY GASKET ADAPTER	ALUM 6063-T6	BONNELL
32	SB-1	SETTING BLOCK, 6" LG. (2) AT 1/8 POINTS	EPDM 80 DURO	TREMCO
33	123	WATER BARRIER	-	DOWSIL
34	FS-1	#12-14x1-1/2"HWH SMS	ZINC PANTED STEEL	-
35	FB1	BAFFLE	EPDM CLOSED CELL FOAM	TREMCO
36	FB2	BAFFLE	EPDM CLOSED CELL FOAM	TREMCO
37	F1	#12-14x1 1/2 HWH SMS	ZINC PANTED STEEL	VARIES

T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)		REVISIONS		08-28-24	
		GLASS REVISION		06-18-26	
		DEEP MULLION ADDED			
DRAWN BY: HG		1	2	3	4
DATE: 02/14/2024		5			
CT WINDOWS		d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES			
		9195 BOGGY CREEK ROAD, ORLANDO, FLORIDA 32824			
		(407) 857-9237			



SCOTT WALTERS FL PE# 62354 WALTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982	SEAL:
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	DRAWING NO. AAT2-24
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BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
38	F5	#12-14x1 3/4 HWH SMS	ZINC PANTED STEEL	VARIES
39	F10	3/8" DIA. GRADE 5 BOLT WITH WASHERS & NUTS	STAINLESS STEEL	VARIES
39A	F10A	1/2" DIA. GRADE 5 BOLT GRADE 5 WITH WASHERS & NUTS	STAINLESS STEEL	BONNELL
40	F11	5/8"-11 X 2-1/2" TAP-TITE BOLTS, (2) PER CLIP	ZINC PANTED STEEL	BONNELL
41	F14	3/8" X 1-3/4" FH BOLT W/ FLAT WASHER AND LOCK NUT	ZINC PANTED STEEL	VARIES
42	F25	1/4" X 1" HEX HEAD THRU BOLT W/ WASHER AND LOCK NUT	ZINC PANTED STEEL	VARIES
43	F27	#14 x 2" LG. HWH SDS	ZINC PANTED STEEL	VARIES
44	-	GLASS SPACER	ALUMINUM	ALL METAL, INC,
45	-	2" X 2" X 1/4" THK. ALUM. ANGLE. (3-3/4" LG. AT BOTH SIDES OF MULLION)	ALUMINUM	HALL METALS
46	AP1	END DAM	METAL	C.T. WINDOWS
47	AP2	END DAM AT DOOR JAMB	METAL	C.T. WINDOWS
48	AP6	GUTTER SPLICE PLATE	METAL	C.T. WINDOWS
49	G1	PRESET WIPER GASKET	EPDF 70 DURO	TREMCO
50	G2	PRESET AIR SEAL BULB GASKET	EPDF 70 DURO	TREMCO
51	G3	PRESET RUN SCREEN GASKET	EPDF 60 DURO	TREMCO
52	G4	GASKET	EPDF 70 DURO	TREMCO
53	G5	GASKET	EPDF 60/70 DURO	TREMCO
54	G6	PRESET GLASS EDGE BULB GASKET	EPDF 70 DURO	TREMCO
55	G7	PRESET AIR SEAL WIPE GASKET	EPDF 70 DURO	TREMCO
56	G8	ACCORDION RAIN SCREEN GASKET	EPDF 60 DURO	TREMCO
57	S1	DOWSIL 983 or PROGLAZE II + BASE or MOMENTIVE 4600A base, 4603B CATALYST	SILICONE	DOWSIL/MOMENTIVE
58	S2	DOWSIL 795 or SPECTRUM 2 or MOMENTIVE 2350 / 2000	SILICONE	DOWSIL/MOMENTIVE
59	S3	DOWSIL 791 or SPECTRUM 1 or MOMENTIVE 2350 / 2000	SILICONE	DOWSIL/MOMENTIVE
60	S4	DOWSIL 795 or SPECTRUM 2 or MOMENTIVE 2350 / 2000	SILICONE	DOWSIL/MOMENTIVE
61	162335	PRESSURE PLATE	ALUM 6063-T6	
62	AP-8	0.125" X 1 13/16" ALUM. PLATE (J HOOK SPLICE PLATE)	ALUM 6063-T5	TRAINOR
63	T34112	RECTANGLE BOX TUBE	ALUM 6063-T6	SAF
64	R1	3/4" X 3 1/2" STEEL BAR	STEEL	
65	R2	1" X 3 1/2" STEEL BAR	STEEL	
66	R3	3/8" X 3" STEEL BAR	STEEL	
67	TGF-1110	90° INSIDE CORNER MALE MULLION	ALUM 6063-T6	CT WINDOW
68	TGF-1111	90° INSIDE CORNER FEMALE MULLION	ALUM 6063-T6	CT WINDOW
69	TGF-1112	90° OUTSIDE CORNER MALE MULLION	ALUM 6063-T6	CT WINDOW
70	TGF-1113	90° OUTSIDE CORNER FEMALE MULLION	ALUM 6063-T6	CT WINDOW
71	CTW-1115	90° INSIDE CORNER ANTI-BUCKLING CLIP	ALUM 6063-T6	CT WINDOW
72	TGF-1352	OUTSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM 6063-T6	CT WINDOW

REVISIONS				
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T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)

CT WINDOWS

d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES

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15211 97TH ROAD N
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SEAL:

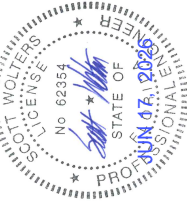
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DRAWING NO.
AAT2-24

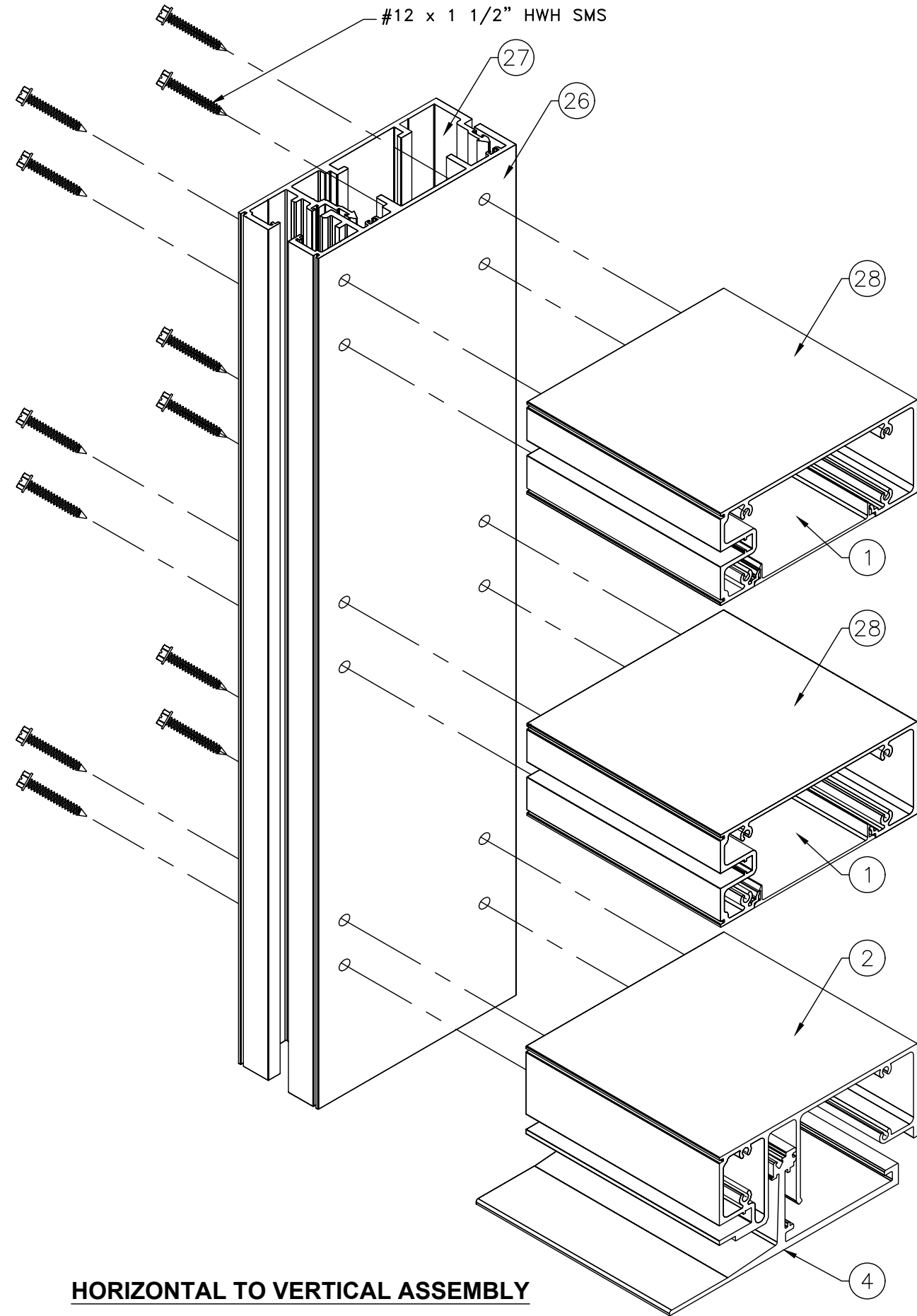
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BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
73	TGF-1353	OUTSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM 6063-T6	CT WINDOW
74	TGF-1356	INSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM 6063-T6	CT WINDOW
75	TGF-1357	INSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM 6005-T5	CT WINDOW
76	TGF-1404	J-ANCHOR ANTI-LIFT CLIP	ALUM 6005-T5	BONNELL
77	TGF-1407	ANCHOR BRACKET	ALUM 6005A-T5	BONNELL
78	TGF-1408	CORNER ANCHOR BRACKET	ALUM 6005A-T5	CT WINDOW
79		ALUM. TAPPING PLATE	ALUM 6063-T6	
80	4542	CHANNEL	ALUM 6063-T6	SAF
81	TGF-1325	JAMB FACE COVER	ALUM 6063-T6	CT WINDOW
82	TGF-1362	JAMB FACE COVER	ALUM 6063-T6	
83	ST116	SQUARE TUBE EXTRUSION	ALUM 6063-T6	SAF
84	ST112	SQUARE TUBE EXTRUSION	ALUM 6063-T6	SAF
85	-	1/16" PLASTIC SLIP PAD	PLASTIC	-
86	TGF-1413	"F" ANCHOR	ALUM 6005-T5	CT WINDOW
87	TGF-1414	"T" ANCHOR	ALUM 6005-T5	CT WINDOW
88	TGF-1354	INSIDE CORNER CLOSURE FOR 9/16" GLASS	ALUM 6063-T6	CT WINDOW
89	TGF-1355	INSIDE CORNER CLOSURE FOR 9/16" GLASS	ALUM 6063-T6	CT WINDOW
90	-	-	-	-
91	TGF-1363	JAMB FACE COVER	ALUM 6063-T6	BONNELL
92	TGF-1364	JAMB FACE COVER	ALUM 6063-T6	BONNELL
93	TGF-1205	SILL FRAME (OPTION)	ALUM 6063-T6	BONNELL
94	TGF-1321	MALE MULLION CLOSURE	ALUM 6063-T6	BONNELL
95	TGF-1322	FEMALE MULLION CLOSURE	ALUM 6063-T6	BONNELL
96	SB-3	SETTING BLOCK. 4" LG. (2) PER D.L.O. AT 1/8 POINTS	EPDM 80 DURO	TREMCO
97	TGF-1104	JAMB MULLION	ALUM 6063-T6	BONNELL
98	SB-4	SETTING BLOCK. 4" LG. (2) PER D.L.O. AT 1/8 POINTS	EPDM 80 DURO	TREMCO
99	TGF-1103	JAMB MULLION	ALUM 6063-T6	BONNELL
100	CTW-1203	HORIZONTAL MULLION	ALUM 6063-T6	BONNELL
101	TGF-1301	MALE MULLION CLOSURE	ALUM 6063-T6	BONNELL
102	TGF-1302	FEMALE MULLION CLOSURE	ALUM 6063-T6	BONNELL
103	TGF-1368	MALE MULLION CLOSURE	ALUM 6063-T6	BONNELL
104	TGF-1369	FEMALE MULLION CLOSURE	ALUM 6063-T6	BONNELL
105	TGF-1333	HEAD GLAZING COVER	ALUM 6063-T6	BONNELL
106	TGF-1336	HEAD GLAZING COVER	ALUM 6063-T6	BONNELL
107	TGF-1303	GLAZING ADAPTER	ALUM 6063-T6	BONNELL
108	TGF-1305	GLAZING ADAPTER	ALUM 6063-T6	BONNELL

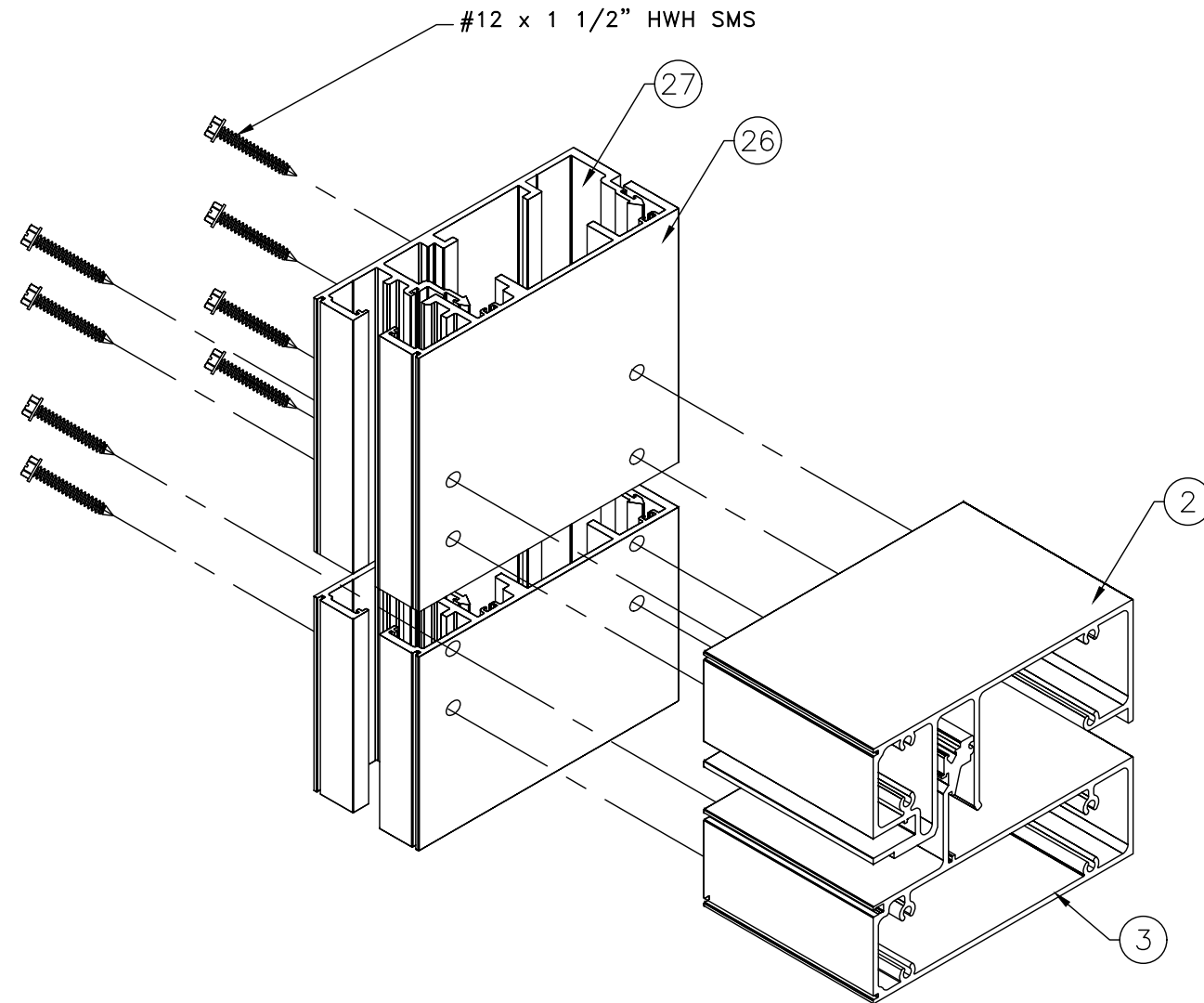
T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)	REVISIONS				
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	BOM 3
	DRAWING NO. AAT2-24
	SHEET NO. 44 of 46

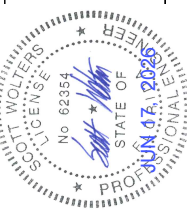


HORIZONTAL TO VERTICAL ASSEMBLY



STACK HORIZONTAL ASSEMBLY

T850 CURTAIN WALL LEVEL D or E IMPACT - (LMI & SMI)	REVISIONS		
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	ASSEMBLY
	DRAWING NO. AAT2-24 SHEET NO. 46 of 46