

KAWNEER 1600 WALL SYSTEM 1

2 1/2" x 7 13/16" CURTAINWALL SYSTEM

LEVEL E IMPACT RESISTANT

GENERAL NOTES:

1. THIS PRODUCT MEETS ALL THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE.
2. THIS SYSTEM HAS BEEN TESTED PER ASTM E 1886, AND ASTM E 1996 FOR LEVEL E LARGE AND SMALL MISSILE IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
3. DESIGN LOADS MUST BE CALCULATED BY A PROFESSIONAL ENGINEER OR ARCHITECT FOR EACH PROJECT. THE DESIGN PRESSURE CANNOT EXCEED THE PRESSURES LISTED FOR EACH COMPONENT OF THIS SYSTEM.
4. WOOD BUCKS BY OTHERS AND MUST BE ANCHORED PROPERLY TO TRANSFER IMPOSED LOADS TO THE STRUCTURE.
5. ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT IN BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
6. CODE REQUIREMENTS FOR SAFE GUARDS MUST BE OBSERVED.
7. THE GLASS CHART IN SECTION 5 IS BASED ON TESTED PRESSURES AND ASTM E 1300-09.
8. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH DISSIMILAR MATERIALS SHALL BE SEPARATED TO PREVENT GALVANIC REACTIONS PER FBC REQUIREMENTS.

SYSTEM NOTES:

GLASS..... SEE CHART ON SHEET 06 FOR ALLOWABLE GLASS TYPES, SIZES AND DESIGN PRESSURES.

MULLIONS..... SEE CHART ON SHEET 5 FOR ALLOWABLE DESIGN PRESSURES FOR VARIOUS MULLION AND REINFORCEMENT CONFIGURATIONS.

JAMBS..... SEE CHART ON SHEET 5 FOR ALLOWABLE DESIGN PRESSURES FOR JAMBS WITH AND WITHOUT REINFORCING.

ANCHORS..... SEE CHARTS IN SECTION 06 FOR ALLOWABLE LOADS FOR HEAD/SILL ANCHORS AND MID-SPAN ANCHORS.

SYSTEM..... THE DESIGN PRESSURE OF THE ENTIRE SYSTEM IS THE LOWEST ALLOWABLE DESIGN PRESSURE OF THE COMPONENTS ABOVE.

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NORCROSS, GA 30092



9/10/2021
LUCAS TURNER
TX PE 115094
TURNER ENGINEERING & CONSULTING, INC.,
TBPE REG. #18075
2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN, 38320
PH 941-380-1574

PRODUCT:
1600 WALL SYS 1
2 1/2" LEVEL E

DWG:
1600-IR-LVLE

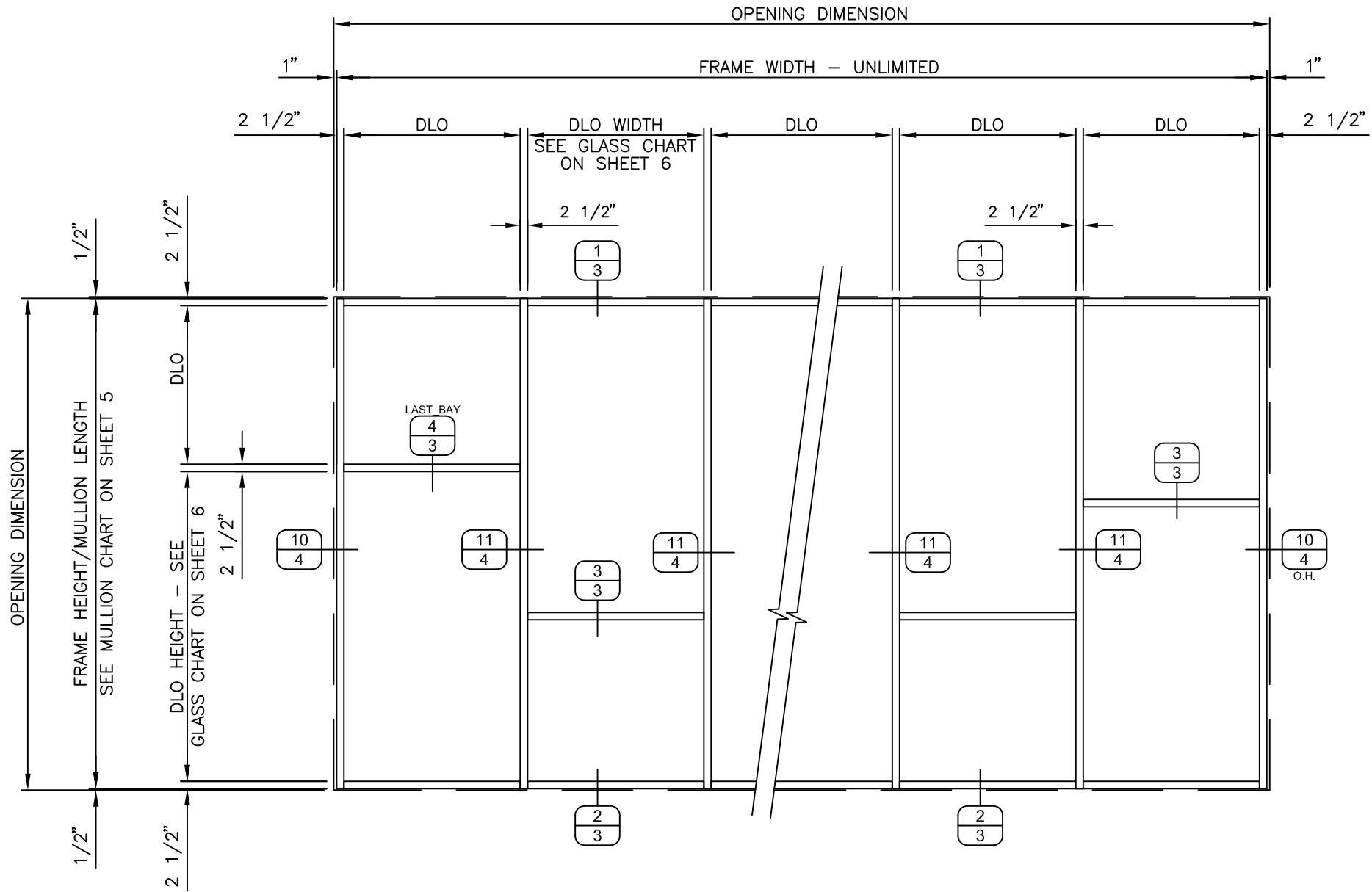
SECTION:
1

SHEET:
1/10

REV.#	DATE
-	7/26/21
-	-
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1ST SUBMITTAL
PRINTS ISSUED FOR

ELEVATION



EXTERIOR VIEW
(NOT TO SCALE)

								7/26/21	DATE
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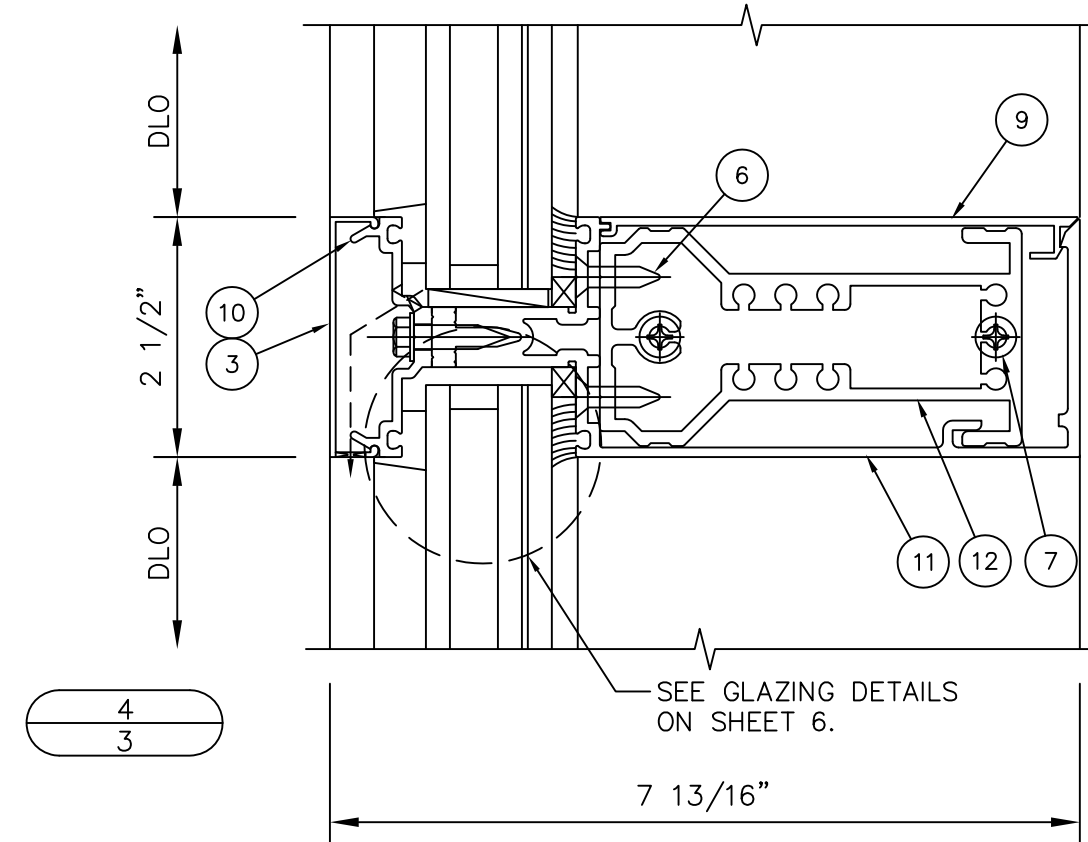
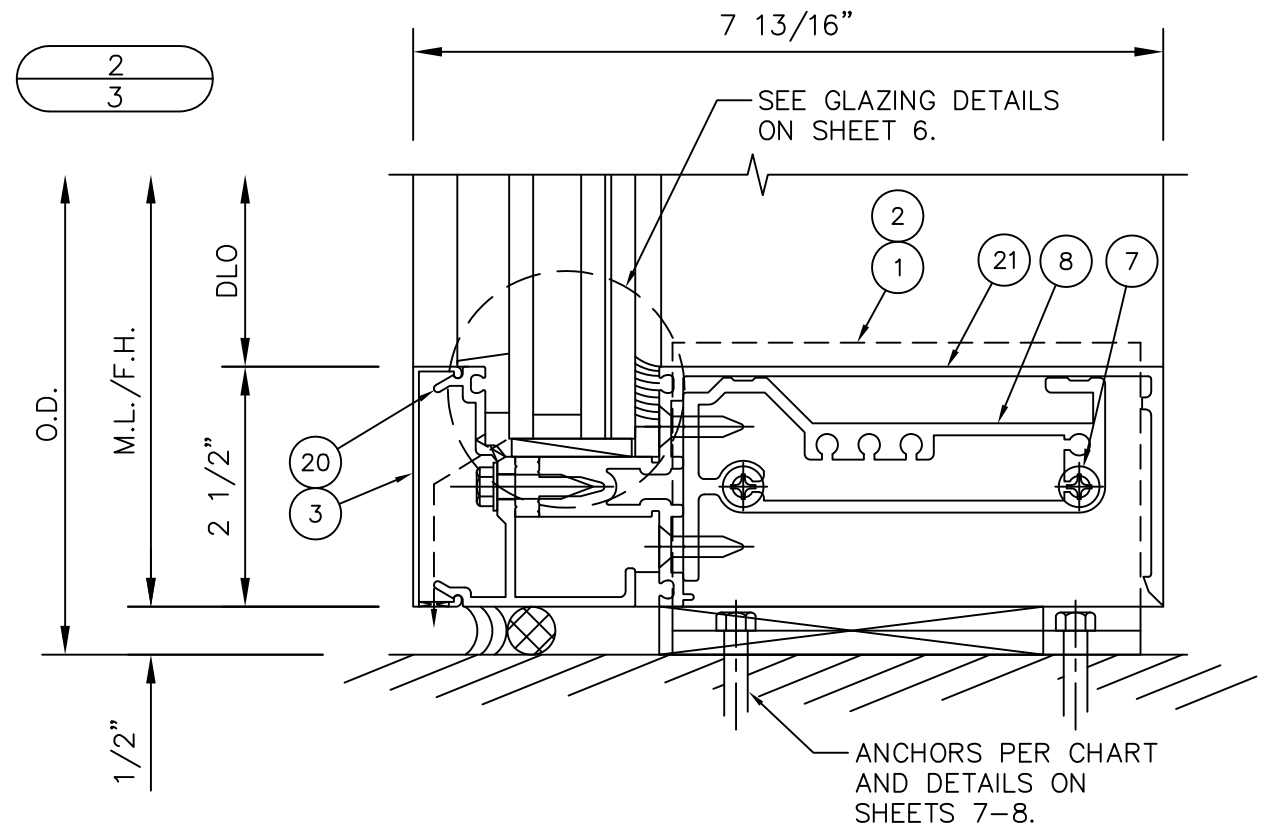
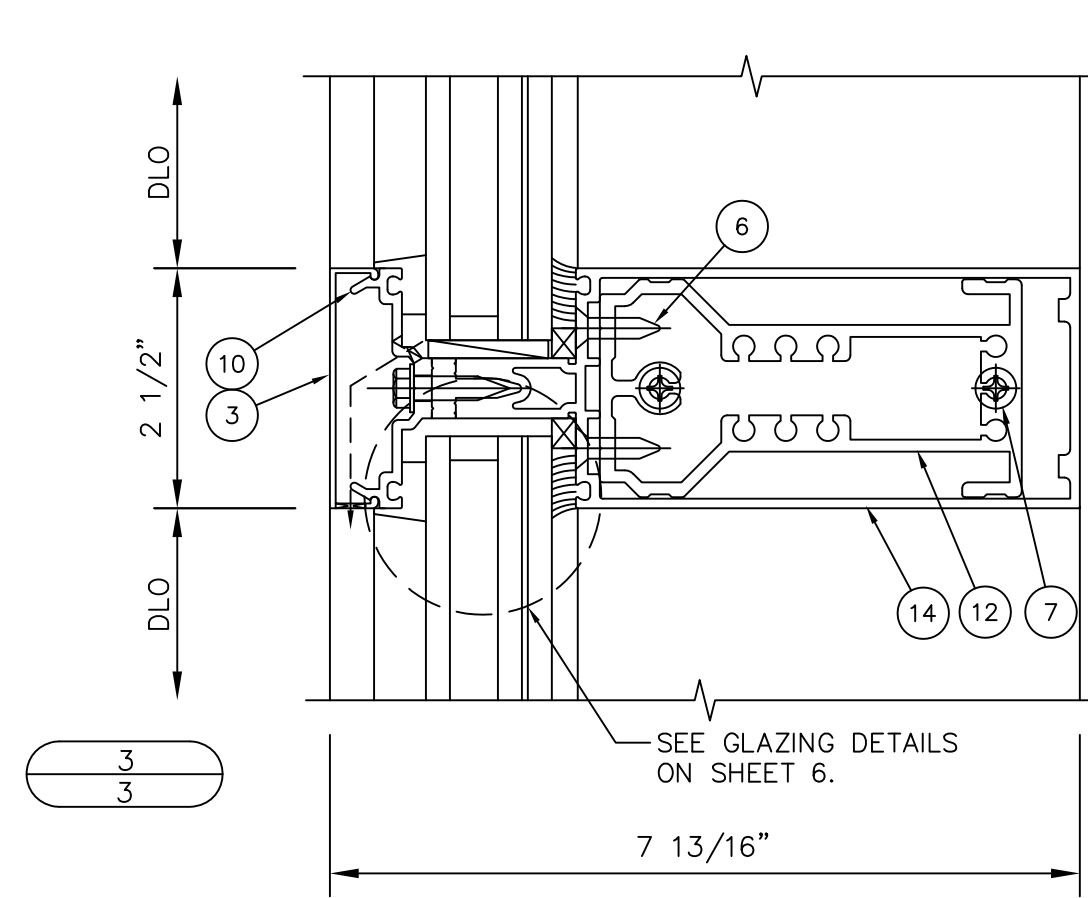
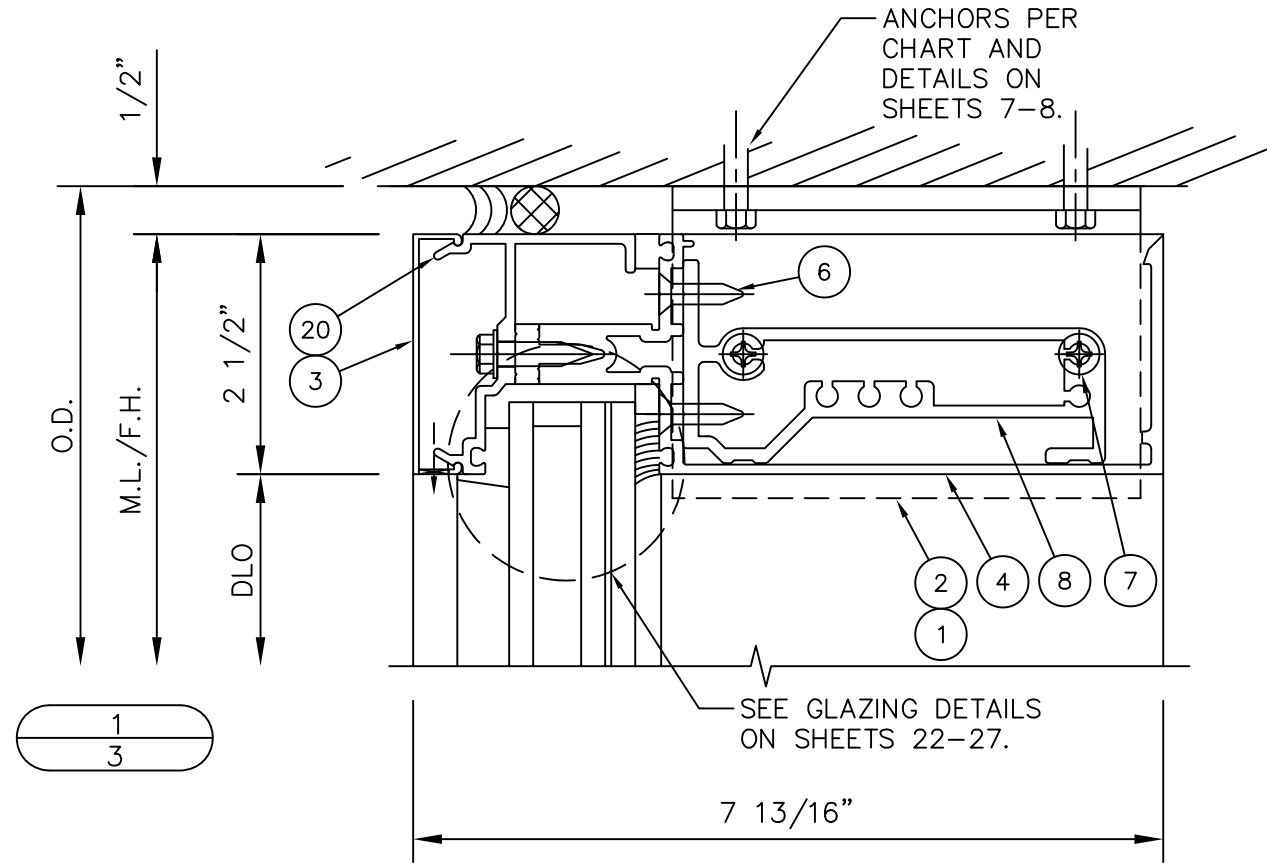
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CAMDEN, TN, 38320
PH 941-380-1574

PRODUCT:	1600 WALL SYS 1
	2 1/2" LEVEL E
DWG:	1600-IR-LVLE
SECTION:	2
SHEET:	2/10

HORIZONTAL DETAILS

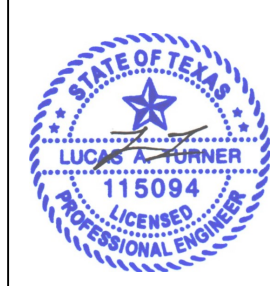


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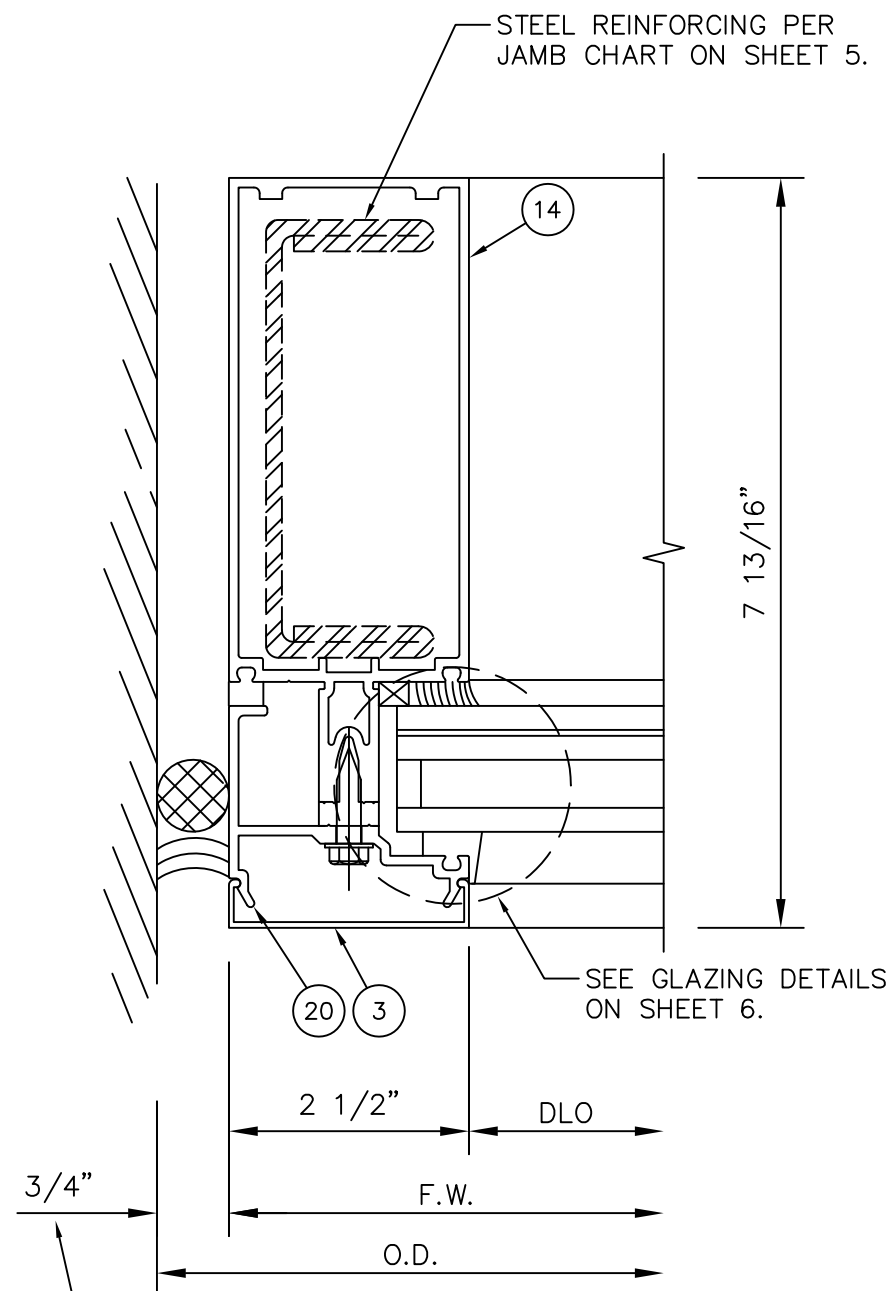
PRODUCT:
**1600 WALL SYS 1
2 1/2" LEVEL E**

DWG:
1600-IR-LVLE

SECTION:
3

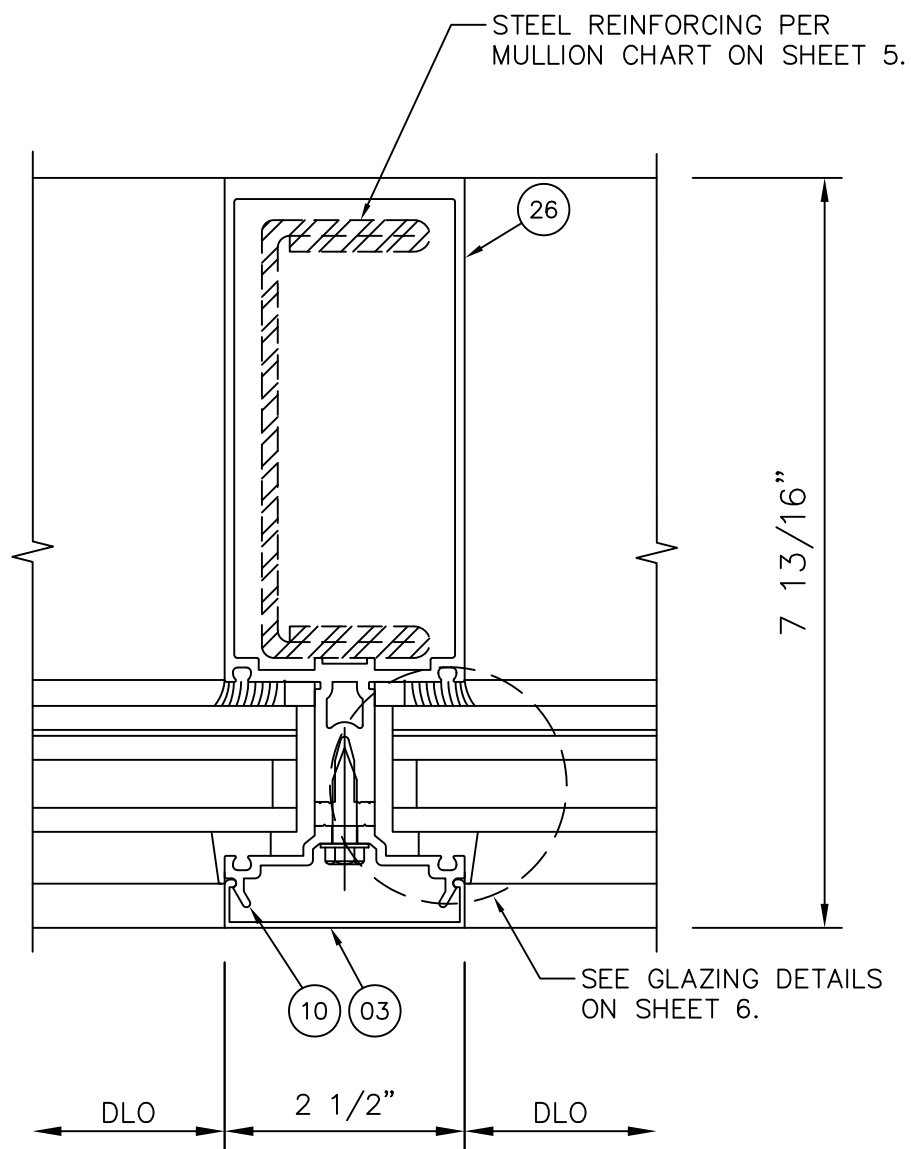
SHEET:
3/10

VERTICAL DETAILS



10
4

NOMINAL DIMENSION. PERIMETER SEALANT WIDTH MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND ASTM C1472.



11
4

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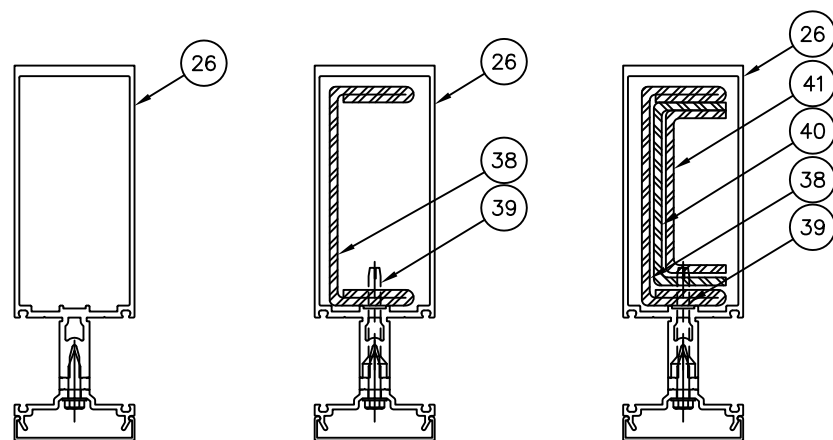
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TURNER ENGINEERING & CONSULTING, INC.,
TBPE REG. #18075
2428 OLD NATCHEZ TRACE TR.L.
CAMDEN, TN, 38320
PH 941-380-1574

PRODUCT:	1600 WALL SYS 1 2 1/2" LEVEL E
DWG:	1600-IR-LVLE
SECTION:	3
SHEET:	4/10

MULLION LIMITATIONS

MULLION CHART				
		MAX. DESIGN PRESSURE (psf)		
HEIGHT	WIDTH	M1	M2	M3
(in)	(in)	(+/-)	(+/-)	(+/-)
96	36	90	90	90
	42	90	90	90
	48	90	90	90
	54	90	90	90
	60	90	90	90
120	36	-	90	90
	42	-	90	90
	48	-	90	90
	54	-	90	90
	60	-	90	90
132	36	-	90	90
	42	-	90	90
	48	-	90	90
	54	-	90	90
	60	-	90	90
144	30	-	-	83
	36	-	-	83
	42	-	-	83
	48	-	-	83
	56	-	-	83
156	30	-	-	77
	36	-	-	77
	42	-	-	77
	48	-	-	77
	51	-	-	77
168	36	-	-	70
	42	-	-	70
	48	-	-	70

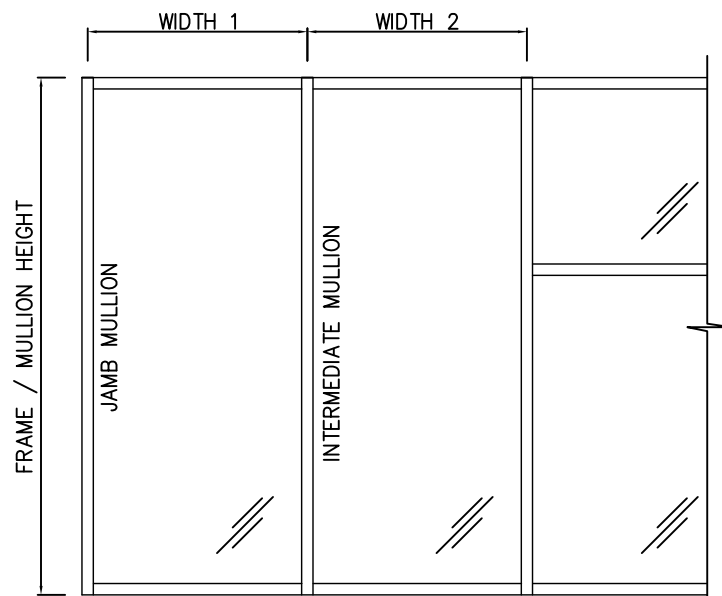
JAMB MULLION CHART				
		MAX. DESIGN PRESSURE (psf)		
HEIGHT	WIDTH	JAMB J1		JAMB J2
		1/2" to 3/4"	3/4" to 1"	1/2" MIN.
		CAULK JOINT	CAULK JOINT	CAULK JOINT
(in)	(in)	WIDTH (+/-)	WIDTH (+/-)	WIDTH (+/-)
96	36	90	90	90
	42	90	90	90
	48	90	90	90
	54	90	90	90
	60	90	90	90
120	36	90	90	90
	42	90	90	90
	48	90	90	90
	54	90	90	90
	60	90	90	90
132	36	90	90	90
	42	90	90	90
	48	90	90	90
	54	90	90	90
	60	83	90	90
144	30	83	83	83
	36	83	83	83
	42	83	83	83
	48	72	83	83
	56	62	83	83
156	30	77	77	77
	36	71	77	77
	42	61	77	77
	48	53	77	77
	52	49	73	77
168	36	52	70	70
	42	45	66	70
	48	39	58	70



MULLION M1

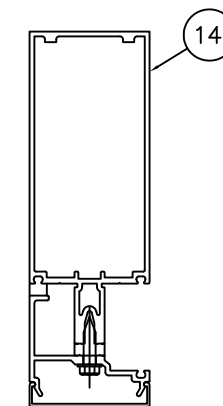
MULLION M2

MULLION M3

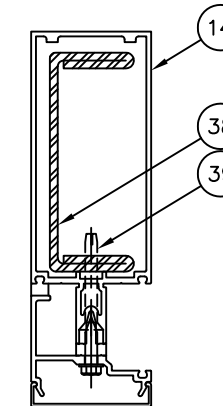


JAMB MULLION SPACING = WIDTH 1

INTERMEDIATE MULLION SPACING = $\frac{WIDTH 1 + WIDTH 2}{2}$



JAMB MULLION J1



JAMB MULLION J2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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PH 941-380-1574

PRODUCT:
1600 WALL SYS 1
2 1/2" LEVEL E

DWG:
1600-IR-LVLE

SECTION:
4

SHEET:
5/10

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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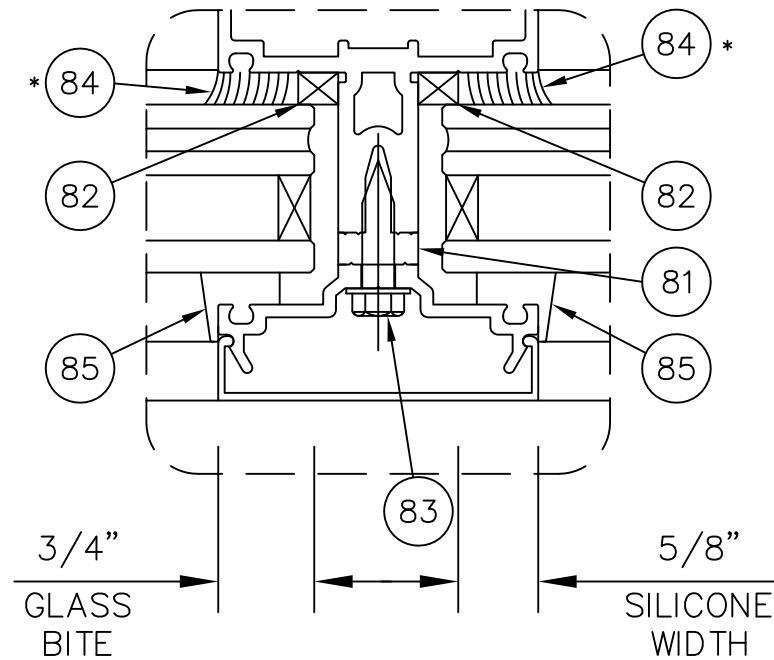
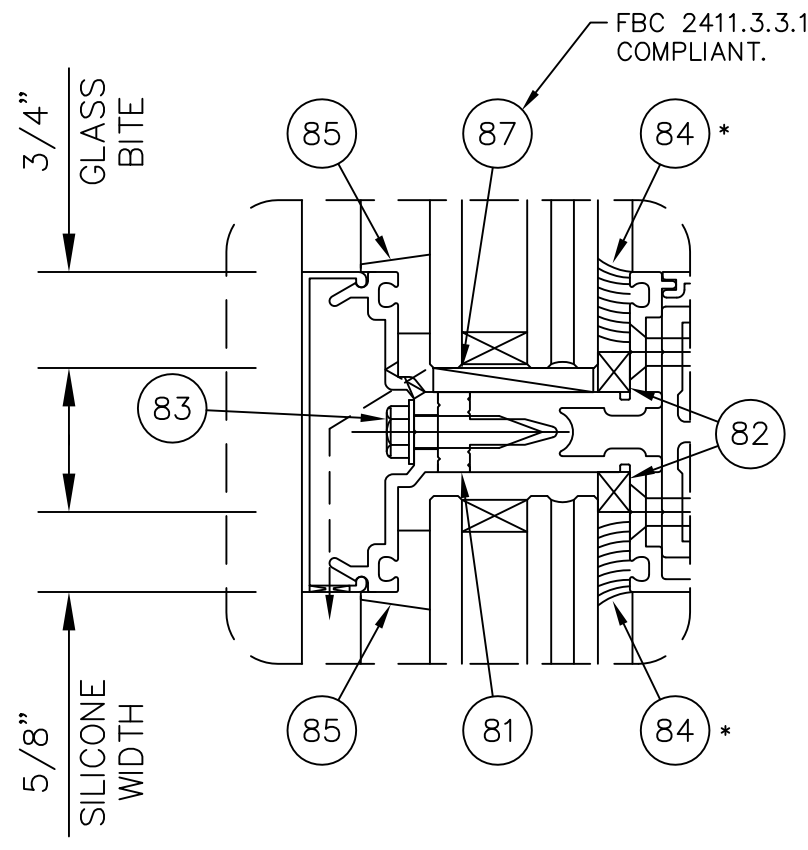
LEVEL E LARGE AND SMALL MISSILE GLAZING

GLASS TYPE 1:

- 1 5/16" INSULATED LAMINATED
- 1/4" TEMPERED
- 1/2" AIR SPACE (ALUM SPACER)
- 3/16" HEAT STRENGTHENED
- 0.180" SENTRYGLAS INTERLAYER
- 3/16" HEAT STRENGTHENED

GLASS CHART								
GLASS TYPE 1 (LEVEL E LMI/SMI)								
TESTED DLO'S = 57 1/2"x92 1/2" (90 psf), 45 1/2"x116 1/4" (70 psf)								
DLO HEIGHT (in)	ALLOWABLE DESIGN PRESSURE (+/- psf)							
	DLO WIDTH (in)							
	36	39	42	45	48	51	54	57 1/2
92 1/2	90	90	90	90	90	90	90	90
98 1/2	90	90	90	90	90	90	90	-
104	90	90	90	90	90	90	-	-
110 1/2	90	90	90	90	90	-	-	-
118	90	90	90	90	-	-	-	-
126 1/2	90	90	90	-	-	-	-	-
136	90	90	-	-	-	-	-	-
147	90	-	-	-	-	-	-	-

GLAZING DETAILS



*INSTALLER NOTE: INSTALLER IS RESPONSIBLE FOR ALL REQUIRED COMPATIBILITY REVIEW AND APPROVALS WITH THE STRUCTURAL SILICONE MANUFACTURER AND THE INSULATING GLASS UNIT MANUFACTURER.

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2 1/2" LEVEL E

DWG:
1600-IR-LVLE

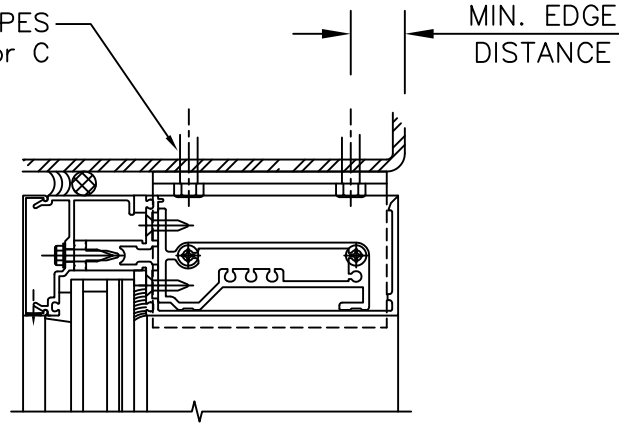
SECTION:
5

SHEET:
6/10

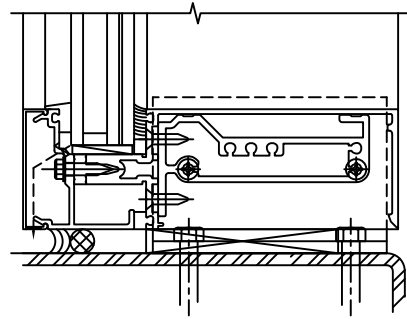
HEAD/SILL ANCHOR DETAILS

ANCHOR TYPE 1 - 1800 lb MAX REACTION

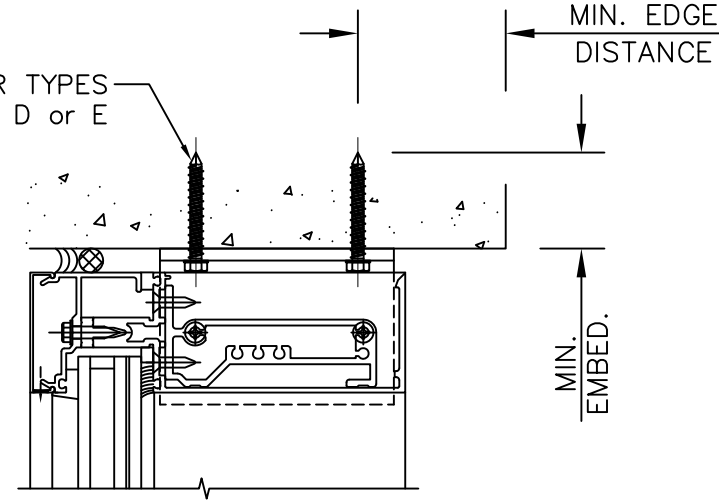
ANCHOR TYPES
A, B, or C



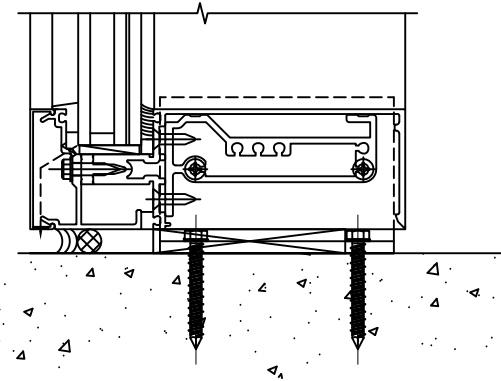
STEEL



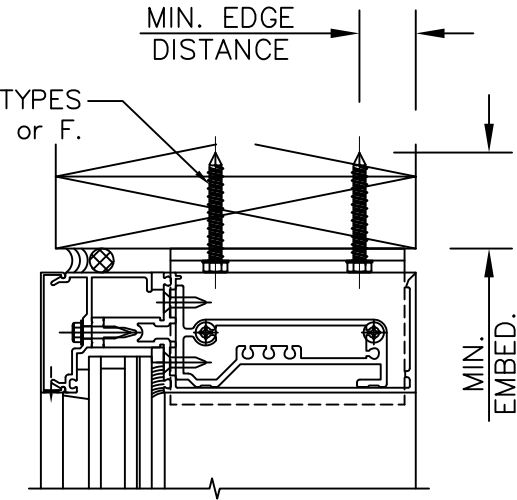
ANCHOR TYPES
D or E



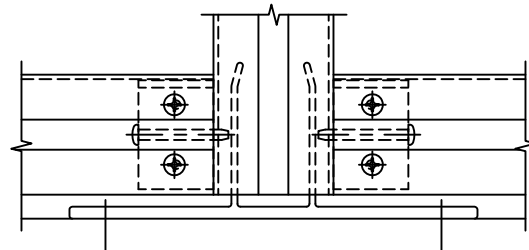
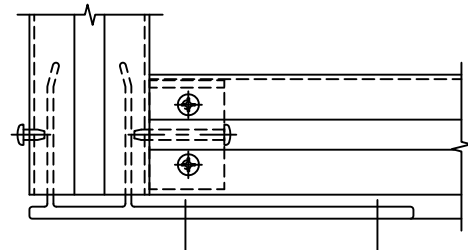
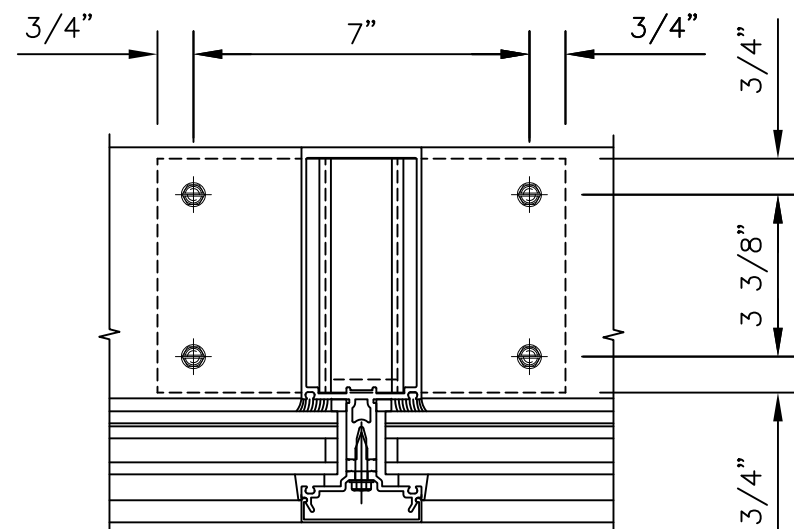
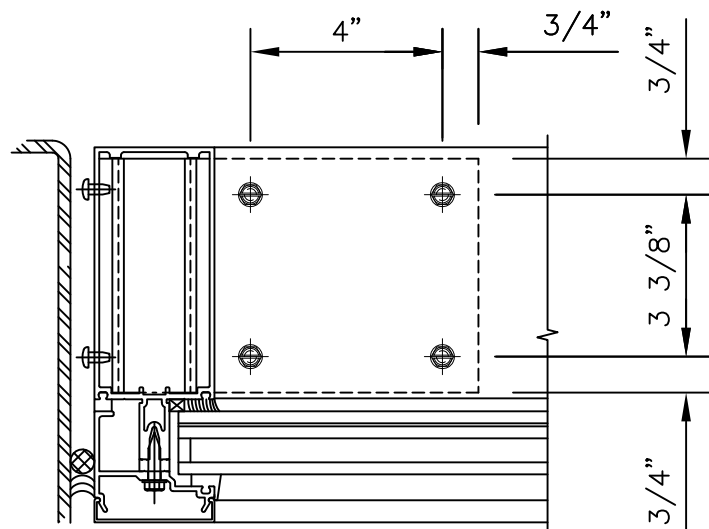
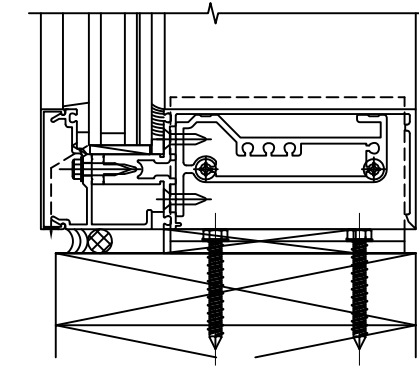
CONCRETE



ANCHOR TYPES
D, E, or F.



WOOD



HEAD/SILL ANCHORS				
SUBSTRATE	MARK	TYPE	MIN EMBED (in)	MIN EDGE DISTANCE (in)
STRUCTURAL STEEL (1/4", A36 min)	A	5/16" DIA. F-TYPE SCREW (Fu=120 ksi min)	FULL*	1"
	B	5/16" DIA. TEKS SCREW	FULL*	1"
	C	5/16" DIA. DEWALT DRIL-FLEX	FULL*	1"
CONCRETE (4000 psi min)	D	5/16" DIA. ELCO ULTRACON	1 3/4"	2 1/2"
	E	5/16" DIA. ITW TAPCON+	1 3/4"	2 1/2"
WOOD (3", S.G.=0.5 min)	D	5/16" ELCO ULTRACON	2"	1 1/2"
	E	5/16" ITW TAPCON+	2"	1 1/2"
	F	#14 WOOD SCREW (Fu=120 ksi min)	2"	1 1/2"

* FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND.

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PRODUCT:
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DWG:
1600-IR-LVLE

SECTION:
6

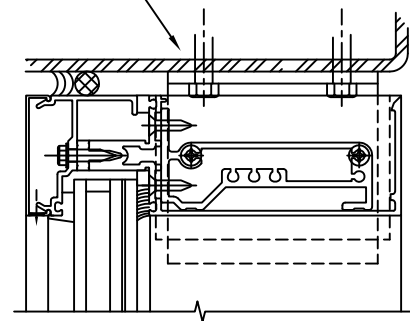
SHEET:
7/10

HEAD/SILL ANCHOR DETAILS

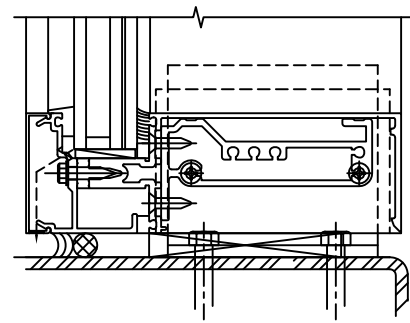
ANCHOR TYPE 2 - 2475 lb MAX REACTION

ANCHOR TYPES
A, B, or C

MIN. EDGE
DISTANCE



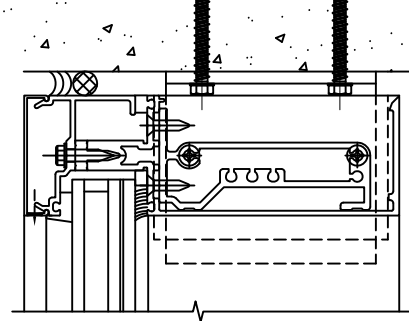
STEEL



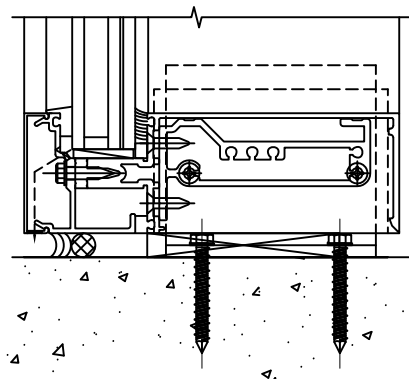
ANCHOR TYPES
G or H

MIN. EDGE
DISTANCE

MIN.
EMBED.



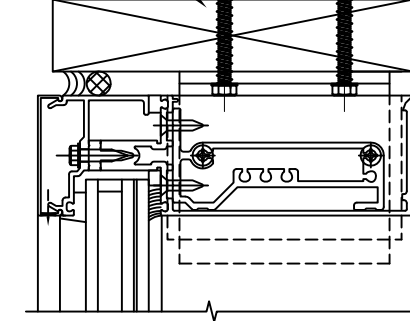
CONCRETE



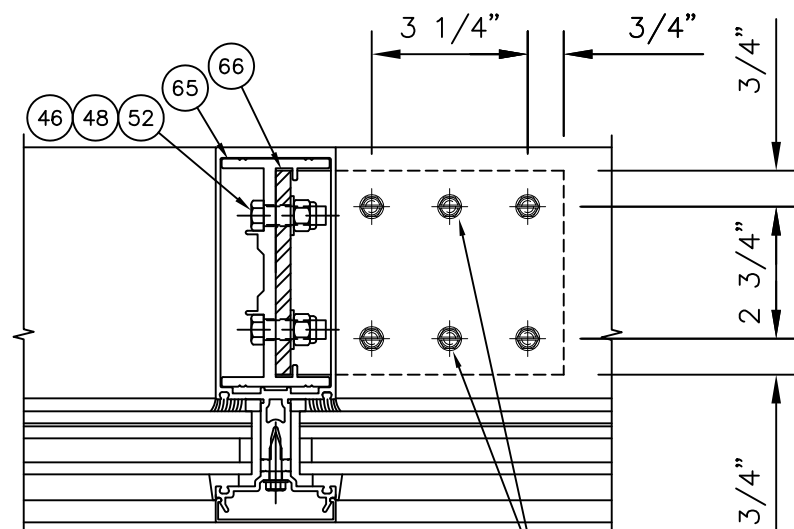
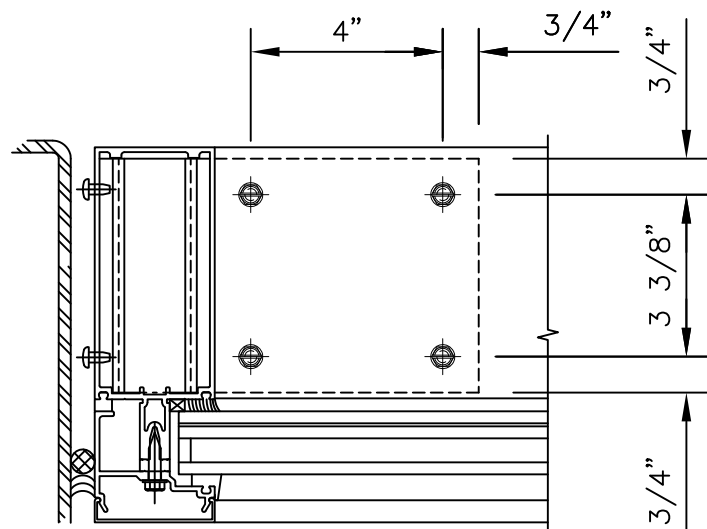
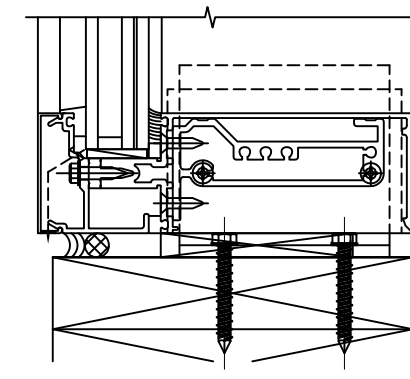
ANCHOR TYPES
D, E, or F.

MIN. EDGE
DISTANCE

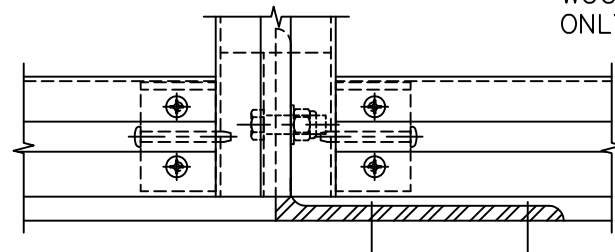
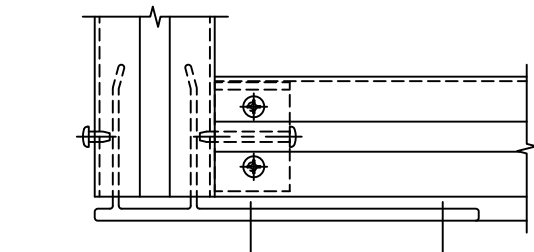
MIN.
EMBED.



WOOD



REQUIRED FOR
WOOD SUBSTRATE
ONLY.



HEAD/SILL ANCHORS

SUBSTRATE	MARK	TYPE	QUANTITY		MIN EMBED (in)	MIN EDGE DISTANCE (in)
			MULLION	JAMB		
STRUCTURAL STEEL (1/4", A36 min)	A	5/16" DIA. F-TYPE SCREW (Fu=120 ksi min)	4	4	FULL*	1"
	B	5/16" DIA. TEKS SCREW	4	4	FULL*	1"
	C	5/16" DIA. DEWALT DRIL-FLEX	4	4	FULL*	1"
CONCRETE (4000 psi min)	G	3/8" DIA. DEWALT SCREWBOLT+	4	4	3 1/4"	3"
	H	3/8" DIA. SIMPSON STRONG-TIE TITAN HD	4	4	3 1/4"	3"
WOOD (3", S.G.=0.5 min)	D	5/16" ELCO ULTRACON	6	4	2"	1 1/2"
	E	5/16" ITW TAPCON+	6	4	2"	1 1/2"
	F	#14 WOOD SCREW (Fu=120 ksi min)	6	4	2"	1 1/2"

* FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND.

1ST SUBMITTAL	7/26/21
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555 GUTHRIDGE COURT
NORCROSS, GA 30092



9/10/2021
LUCAS TURNER
TX PE 115094
TURNER ENGINEERING &
CONSULTING, INC.,
TBPE REG. #18075
2428 OLD NATCHEZ
TRACE TRL.
CAMDEN, TN, 38320
PH 941-380-1574

PRODUCT:
1600 WALL SYS 1
2 1/2" LEVEL E

DWG:
1600-IR-LVLE

SECTION:
6

SHEET:
8/10

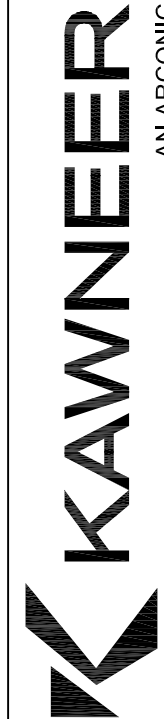
BILL OF MATERIALS

BILL OF MATERIALS

NO.	PART NO.	DESCRIPTION	DIMENSIONS	MATERIAL
01	162311	"F" ANCHOR	3.250 x 8.000 x 0.250	6063 T6 ALUMINUM
02	162312	"T" ANCHOR	3.250 x 8.500 x 0.250	6063 T6 ALUMINUM
03	162006	COVER	2.500 x 0.504 x 0.060	6063 T6 ALUMINUM
06	128405	#12 x 7/8" AB FHTF	#12 x 7/8" AB FHTF	300 SERIES STAINLESS STEEL
07	128394	#12 x 1-7/8" TYPE I CRPHTFS B	#12 x 1-7/8" B PHTF	430 SERIES STAINLESS STEEL
08	162332	7-1/2" HEAD / SILL SHEAR BLOCK	4.395 x 2.115 x 0.125	6063 T6 ALUMINUM
09	162020	OPEN BACK FILLER	0.434 x 4.973 x 0.090	6063 T6 ALUMINUM
10	162517	OFFSET PRESSURE PLATE	2.500 x 0.847 x 0.100	6063 T6 ALUMINUM
11	162091	7-1/2" OPEN BACK HORIZONTAL	2.479 x 6.500 x 0.100	6063 T6 ALUMINUM
12	162378	7-1/2" SHEAR BLOCK	4.395 x 2.270 x 0.125	6063 T6 ALUMINUM
14	162003	LIGHT 7-1/2" VERTICAL / HORIZONTAL	2.479 x 6.500 x 0.100	6063 T6 ALUMINUM
19	028843	#12 x 1/2" TYPE I CRFCHT SB	#12 x 1/2" TYPE I CRFCHT SB	300 SERIES STAINLESS STEEL
20	162528	1-5/16" PERIMETER OFFSET PRESSURE PLATE	2.500 x 2.097 x 0.100	6063 T6 ALUMINUM
21	162095	7-1/2" OPEN BACK HORIZONTAL FOR 1" FRAME	2.479 x 6.500 x 0.100	6063 T6 ALUMINUM
22	162516	JAMB OFFSET PRESSURE PLATE	2.500 x 0.847 x 0.100	6063 T6 ALUMINUM
26	162004	HEAVY 7-1/2" VERTICAL / HORIZONTAL FOR 1" FRAME	2.500 x 6.500 x 0.100	6063 T6 ALUMINUM
33	128348	10-16 x 1-1/4" FHSMD	10-16 x 1-1/4" FHSMD	400 SERIES STAINLESS STEEL
34	162307	7-1/2" SLEEVE	2.260 x 4.750 x 0.125	6063 T6 ALUMINUM
35	128267	12 x 1" TYPE I CRPHTFS AB	12 x 1" TYPE I CRPHTFS AB	300 SERIES STAINLESS STEEL
36	162313	SLEEVE FOR EXTERIOR COVER 3/4"	2.219 x 0.187 x 0.031	.031 5005 H32 SHEET ALUMINUM FINISH
37	162306	6" SLEEVE	2.260 x 3.250 x 0.125	6063 T6 ALUMINUM
38	162301	MATING STEEL REINFORCING 1	1.750 x 4.560 x 0.164	GRADE 50 STEEL
39	904208	1/4 x 2" FCHTCS D/F	1/4 x 2" FCHTCS D/F	300 SERIES STAINLESS STEEL
40	162302	MATING STEEL REINFORCING 2	1.500 x 3.810 x 0.164	GRADE 50 STEEL
41	162303	MATING STEEL REINFORCING 3	1.250 x 3.388 x 0.164	GRADE 50 STEEL
43	162320	7-1/2" SHEAR BLOCK AT DOOR	1.460 x 2.270 x 0.125	6063 T6 ALUMINUM
44	128910	10 x 1/2" TYPE I CRFCHTFS B	10 x 1/2" TYPE I CRFCHTFS B	300 SERIES STAINLESS STEEL
45	977110	10 x 5/8" TYPE I CRFCHTFS B	10 x 5/8" TYPE I CRFCHTFS B	300 SERIES STAINLESS STEEL
46	028596	3/8" FLAT WASHER TYPE A - NARROW	DIA 0.750 x 0.040	300 SERIES STAINLESS STEEL
47	028779	3/8" HELICAL SPRING LOCK WASHER	DIA 0.869 x 0.125	300 SERIES STAINLESS STEEL
48	028778	3/8"-16 x 1-1/4" HCS B	3/8"-16 x 1-1/4" HCS B	400 SERIES STAINLESS STEEL
52	128392	3/8"-16 HEX LOCKNUT	0.563 x 0.650	300 SERIES STAINLESS STEEL
57	128284	#12 x 1 1/2" AB FHTF SCREW	#12 x 1 1/2" AB FHTF	400 SERIES STAINLESS STEEL
59	162218	3/8-16 x 4-1/2" PRHMS	1.125 x 6.848 x .125	400 SERIES STAINLESS STEEL
61	162249	#12 x 1 1/2" AB FHTF SCREW	1.125 x 7.598 x .125	400 SERIES STAINLESS STEEL
65	162341	ANCHOR PLUG	2.250 x 4.750 x 0.25 x 3.000	6063 T6 ALUMINUM
66	162249	STEEL ANGLE ANCHOR	6.000 x 4.000 x .313 x 4.250	50 KSI STEEL

GLAZING MATERIALS

NO.	PART NO.	DESCRIPTION	DIMENSIONS	MATERIAL
81	162310	THERMAL SEPARATOR	0.626 x 0.600	SHORE "A" 60±5 DUROMETER EPDM
82	027845	TAPE	0.313 x 0.250	BLACK POLYURETHANE FOAM
83	128406	1/4 x 1" HWHTFS AB	1/4 x 1" HWHTFS AB	300 SERIES STAINLESS STEEL
84	N/A	STRUCTURAL SILICONE SEALANT	N/A	SILICONE
85	027850	FIXED GASKET	0.615 x 0.630	SHORE "A" 60±5 DUROMETER EPDM
86	027342	SETTING BLOCK	0.563 x 0.188	SHORE "A" 80±5 DUROMETER EPDM
87	027081	SETTING BLOCK	1.875 x 4.125 x 0.250	SHORE "A" 85±5 DUROMETER EPDM
88	127254	3M VHB 3/4" SG TAPE B23	0.750 x 0.090	CONFORMABLE ACRYLIC FOAM
89	128475	8 x 1" TYPE I CRPHTFS A	8 x 1" TYPE I CRPHTFS A	300 SERIES STAINLESS STEEL
91	N/A	DOW CORNING	N/A	995 SILICONE SEALANT (BY OTHERS)
92	127143	TAPE	1.000 x 0.250	BLACK POLYURETHANE FOAM
93	127150	SETTING BLOCK	1.688 x 0.437	SHORE "A" DUROMETER EPDM
94	027367	SETTING BLOCK	0.750 x 0.438	SHORE "A" 85±5 DUROMETER EPDM
95	127196	SS EXTERIOR GASKET	0.928 x 0.615	SHORE "A" 60±5 DUROMETER EPDM
96	128401	10 x 1" TYPE I CRFCHTFS	10 x 1" TYPE I CRFCHTFS	300 SERIES STAINLESS STEEL
97	027857	FIXED GASKET	0.310 x 0.360	SHORE "A" 70±5 DUROMETER EPDM



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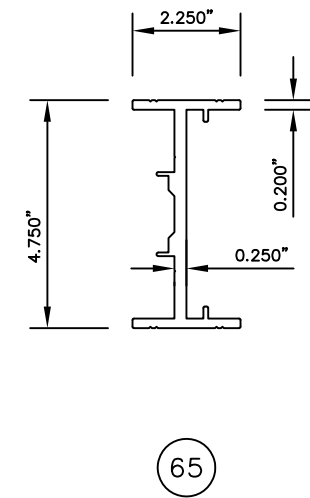
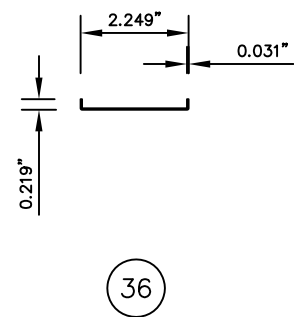
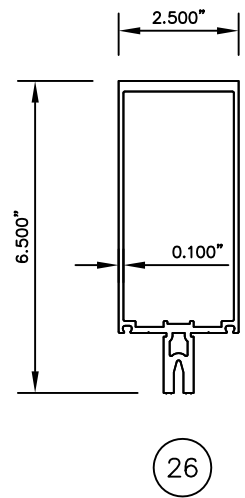
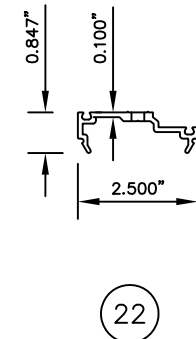
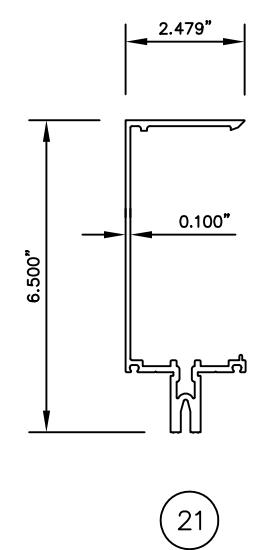
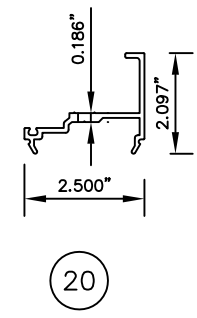
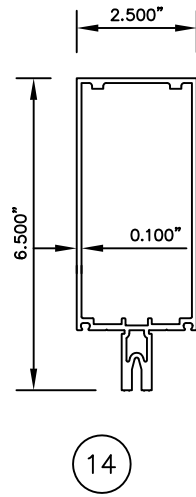
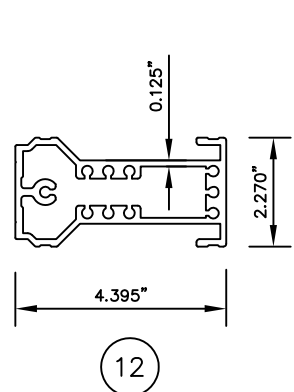
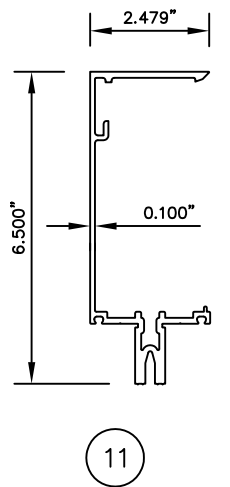
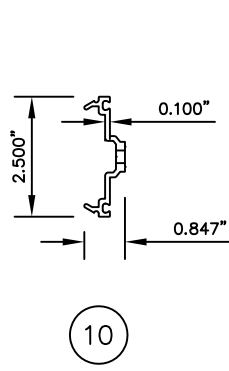
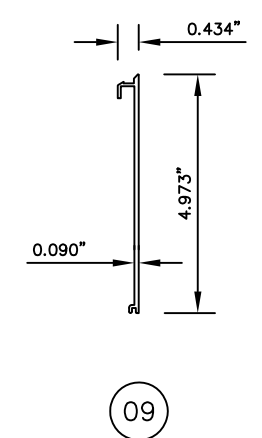
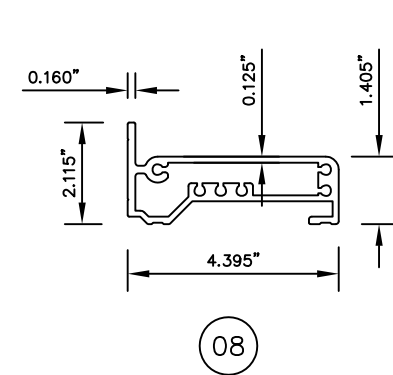
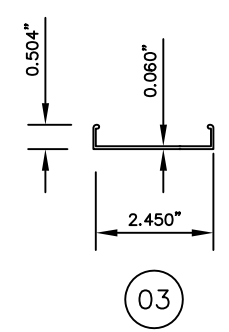
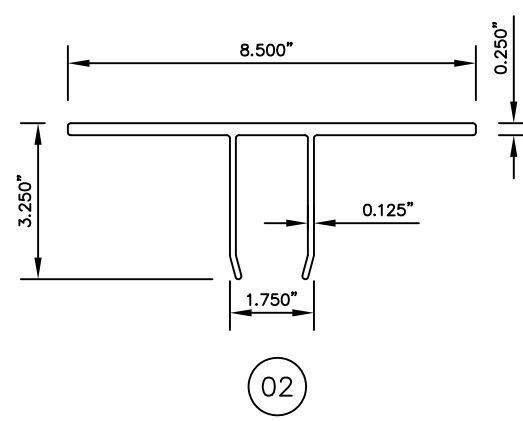
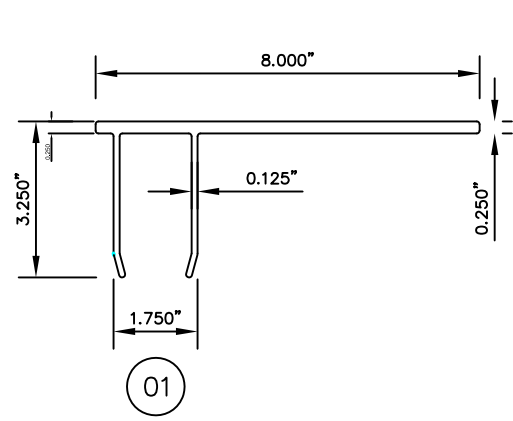
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