



**CULVERT STRUCTURE DESIGN RECORD**

STR. NO.	ALIGNMENT	C.R.L. STATION	STRUCTURE SIZE & TYPE	CONTRIBUTING DRAINAGE AREA ID's	DRAINAGE AREA	LENGTH OF DRAINAGE AREA		SLOPE OF DRAINAGE AREA		SLOPE OF DRAINAGE AREA	"C" RUNOFF COEFFICIENT	Tc TIME OF CONCENTRATION	INTENSITY OF DESIGN YEAR RAINFALL AND CHECK YEAR RAINFALL				DESIGN YEAR DISCHARGE AND CHECK YEAR DISCHARGE					F.L. INLET	F.L. OUTLET	ALLOWABLE HEADWATER	HEADWATER	DESIGN TAILWATER	STRUCTURE SLOPE	OUTLET VELOCITY	OUTLET TREATMENT	REMARKS	
						Acre	Overland	Channel	Overland				Channel	Min.	Inches Per Hour			Cubic Feet Per Sec.													
							L.F.	L.F.	%				%		5	10	25	50	Q5	Q10	Q25										Q50
																			Elevation (ft)												Elev. (ft)
30	RAMP A	48+00.00	18" CROSS DRAIN	A4	0.39	95	93	5.15	3.04	4.1	0.47	10.00	5.38	6.19	7.15	<b>8.26</b>	0.98	1.12	1.43	1.80	<b>1.80</b>	1120.67	1119.90	1122.12	1121.40	1120.30	0.0121	4.75			
4	RAMP B	45+25.00	42" CROSS DRAIN	B1 (A2,A3,C1,C2)	4.45	205	788	1.65	3.30	3.0	0.39	13.97	4.78	5.50	6.35	<b>7.33</b>	8.25	9.49	12.05	15.18	<b>57.82</b>	1107.82	1107.25	1114.08	1111.45	1109.37	0.0072	9.36	RIP RAP		
5	RAMP C	44+80.00	30" CROSS DRAIN	C2	3.60	59	552	8.68	3.05	3.6	0.30	11.11	5.20	5.98	7.97	<b>7.97</b>	5.69	6.55	8.32	10.48	<b>10.48</b>	1110.89	1109.98	1113.91	1112.47	1110.82	0.0114	7.29	RIP RAP		
7	RAMP E	64+51.34	18" STUB DRAIN	E3	0.94	35	163	13.11	1.42	3.5	0.27	10.00	5.38	6.19	7.15	<b>8.11</b>	1.40	1.61	2.04	2.53	<b>2.53</b>	1127.54	1123.69	1129.92	1128.41	-	0.0542	-			
8	RAMP E	67+00.00	18" CROSS DRAIN	E1	0.79	61	238	4.26	3.35	3.5	0.37	10.00	5.38	6.19	7.15	<b>8.11</b>	1.58	1.82	2.31	2.85	<b>2.85</b>	1122.21	1121.98	1123.20	1123.14	1122.62	0.0041	3.95			
12	RAMP F	62+88.80	2-18" CROSS DRAIN	F1	2.29	93	788	1.63	0.73	0.8	0.38	18.66	4.23	4.87	5.62	<b>6.37</b>	3.66	4.22	5.36	6.63	<b>6.63</b>	1138.59	1137.39	1139.60	1139.60	1137.95	0.0113	5.50			

ALL EXISTING DRAINAGE STRUCTURE ELEVATIONS TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

DESIGN	AKS	6/12	I-44 & US-62 INTERCHANGE <b>DRAINAGE DESIGN RECORD (CULVERT STRUCTURE) (SHEET 1 OF 2)</b>
DRAWN	BWH	6/12	
CHECKED	JES	5/16	
APPROVED			
SQUAD	<b>GARVER</b>		