

Table F6.1
Preliminary Assignment of Drainage Structures Along Railway

Structure Designation	KP	Eastern Coordinate (m)	Northern Coordinate (m)	Watershed Number	Catchment Area (km ²)	2 Year Flood (m ³ /s)	100 Year Flood (m ³ /s)	Design	Comments	Navigable	Culvert Length (m)
CV-1-1	KP 01+444	564664	7910499	6	0.606	0.365	1.601	1.5m culvert			40
CV-1-2	KP 01+501	564717	7910478	6			1.601	1.5m culvert			21
CV-2-1	KP 02+406	565499	7910058	7	0.471	0.301	1.339	1.5m culvert			31
CV-2-2	KP 02+754	565756	7909823	8	0.376	0.240	1.064	1.5m culvert			27
CV-3-1	KP 03+026	565972	7909658	9	1.016	0.601	2.658	1.5m culvert			31
CV-3-2	KP 03+892	566716	7909224	10	0.213	0.156	0.756	1.5m culvert			26
CV-4-1	KP 04+280	567005	7908966	11	3.118	1.388	6.678	3m culvert			43
CV-4-2	KP 04+537	567196	7908792	12	0.181	0.132	0.600	1.5m culvert	will require relocation		20
CV-4-3	KP 04+797	567388	7908618	13	0.140	0.101	0.443	1.5m culvert			28
CV-5-1	KP 05+171	567678	7908383	14	0.056	0.046	0.228	1.5m culvert			17
CV-5-2	KP 05+558	568021	7908203	15	0.279	0.202	0.908		joins CV-5-3 under subgrade		
CV-5-3	KP 05+578	568039	7908195	15				1.5m culvert			51
CV-6-1	KP 06+208	568606	7907921	17	3.644	1.586	7.610	2 x 3m culvert			19
CV-6-2	KP 06+363	568744	7907850	18	0.156	0.109	0.481	1.5m culvert			46
CV-6-3	KP 06+686	569014	7907674	20	1.219	0.638	3.011	1.5m culvert			64
CV-7-1	KP 07+062	569318	7907453	21	1.511	0.697	3.350	3m culvert			46
CV-7-2	KP 07+352	569564	7907300	22	0.063	0.051	0.227	1.5m culvert			44
CV-7-3	KP 07+551	569737	7907201	23	0.144	0.100	0.445	1.5m culvert			42
CV-8-1	KP 08+025	570136	7906946	24	2.615	1.157	5.588	3m culvert			49
BR-8-1	KP 08+811	570799	7906523	27	14.361	9.028	23.780	Short span bridge			
CV-8-2	KP 08+920	570888	7906461	28	0.188	0.135	0.600	1.5m culvert			44
CV-10-1	KP 10+742	572330	7905370	29	1.572	0.846	3.928	3m culvert			38
BR-11-1	KP 11+646	573099	7904907	30	52.751	25.232	61.480	Short span bridge		Yes	
CV-12-1	KP 12+583	574001	7904660	31	0.558	0.329	1.457	1.5m culvert			25
CV-12-2	KP 12+851	574236	7904530	32	0.467	0.288	1.268	1.5m culvert			38
CV-13-1	KP 13+709	574988	7904117	33	0.415	0.260	1.147	1.5m culvert			32
CV-13-2	KP 13+953	575210	7904017	34	0.742	0.462	2.047	1.5m culvert			21
CV-14-1	KP 14+305	575527	7903863	35	0.426	0.273	1.217	1.5m culvert			36
CV-14-2	KP 14+468	575666	7903777	36	0.308	0.193	0.853	1.5m culvert			57

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CV-14-3	KP 14+715	575878	7903651	37	1.652	0.940	4.259	3m culvert			57
CV-15-1	KP 15+850	576933	7903240	38	1.004	0.616	2.723	1.5m culvert			73
CV-16-1	KP 16+084	577142	7903135	39	0.015	0.017	0.079	1.5m culvert			76
CV-16-2	KP 16+391	577416	7902997	40	0.216	0.153	0.673	1.5m culvert			79
CV-17-1	KP 17+140	578074	7902639	41	1.936	1.168	5.139	3m culvert			88
CV-17-2	KP 17+891	578733	7902277	42	0.023	0.024	0.116	1.5m culvert			18
CV-18-1	KP 18+031	578855	7902210	43	2.455	1.122	5.393	4 x1.5m culvert			15
CV-18-2	KP 18+264	579063	7902106	44	0.112	0.082	0.371	1.5m culvert			27
CV-18-3	KP 18+579	579363	7902009	45	0.225	0.159	0.687	1.5m culvert			20
CV-19-1	KP 19+095	579874	7901941	46	2.901	1.462	7.054	2 x 3m culvert			173
CV-19-2	KP 19+682	580375	7901672	47	1.153	0.648	2.950	1.5m culvert			110
CV-20-1	KP 20+501	581148	7901424	48	0.460	0.290	1.287	1.5m culvert			129
CV-20-2	KP 20+680	581312	7901354	49	0.067	0.053	0.240	1.5m culvert			18
CV-21-1	KP 21+047	581661	7901241	50	1.563	0.878	4.004	3m culvert			197
CV-21-2	KP 21+986	582569	7901018	51	0.552	0.358	1.592	1.5m culvert			66
CV-22-1	KP 22+269	582846	7900965	52	0.135	0.097	0.434	1.5m culvert			29
CV-22-2	KP 22+486	583058	7900918	53	0.593	0.354	1.560	1.5m culvert			25
CV-22-3	KP 22+672	583241	7900890	54	1.027	0.597	2.670	1.5m culvert			54
CV-22-4	KP 22+820	583386	7900855	55	0.030	0.026	0.140	1.5m culvert			200
CV-22-5	KP 22+978	583535	7900806	56	0.189	0.135	0.598	1.5m culvert			252
CV-23-1	KP 23+491	584019	7900636	57	1.620	0.948	4.228	3m culvert			103
CV-24-1	KP 24+347	584837	7900385	58	0.360	0.258	1.122	1.5m culvert			110
CV-24-2	KP 24+829	585256	7900159	60	0.069	0.049	0.203	1.5m culvert			160
BR-25-1	KP 25+018	585397	7900034	61	113.074	46.084	107.260	Bridge		Yes	BR
CV-25-1	KP 25+584	585832	7899673	62	0.331	0.227	0.936	1.5m culvert			100
CV-25-2	KP 25+997	586177	7899452	63	1.425	0.741	3.530	3m culvert			31
CV-26-1	KP 26+779	586688	7898871	64	0.368	0.250	1.073	1.5m culvert			37

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CV-27-1	KP 27+282	587069	7898544	65	2.361	1.115	5.385	3m culvert			
				66	0.032	0.031	0.111	no structure specified	No apparent out flow. Requires detailed study		180
CV-27-2	KP 27+848	587483	7898170	67	7.964	5.666	15.460	3 x 3m culvert			62
CV-28-1	KP 28+287	587750	7897822	68	0.092	0.066	0.283	1.5m culvert			112
CV-28-2	KP 28+832	588069	7897382	69	0.149	0.106	0.454	1.5m culvert			82
CV-29-1	KP 29+637	588720	7896918	70	0.581	0.344	1.479	1.5m culvert	May require second structure		108
CV-30-1	KP 30+831	589396	7895937	71	0.358	0.232	0.921	1.5m culvert			40
BR-32-1	KP 32+258	590499	7895039	72	11.793	7.726	20.590	Short span bridge			102
CV-33-1	KP 33+689	591485	7894157	73	0.254	0.180	0.786	1.5m culvert			63
CV-34-1	KP 34+693	592112	7893466	74	0.451	0.310	1.349	1.5m culvert			175
CV-35-1	KP 35+055	592377	7893222	75	0.270	0.154	0.656	1.5m culvert	Crossings join at culvert inlet		133
				76	0.635	0.315	1.399				
BR-35-1	KP 35+825	592916	7892671	77	6087.513	1074.000	1968.100	Bridge		Yes	BR
CV-36-1	KP 36+070	593091	7892500	78	0.030	0.028	0.094	1.5m culvert			115
CV-36-2	KP 36+240	593231	7892404	78				1.5m culvert			178
CV-36-3	KP 36+623	593575	7892236	80	0.352	0.230	0.960	1.5m culvert			103
CV-37-1	KP 37+640	594279	7891573	81	0.122	0.089	0.357	1.5m culvert			96
CV-38-1	KP 38+994	594461	7890237	82	0.122	0.093	0.375	1.5m culvert			19
CV-39-1	KP 39+363	594631	7889909	83	0.251	0.181	0.708		redirect to CV-38-1 dykes required		CUT
CV-40-1	KP 40+083	595046	7889321	84	0.430	0.258	1.038	1.5m culvert			41
CV-40-2	KP 40+847	595487	7888698	85	0.137	0.099	0.386		redirect to CV-40-1 dykes required		CUT
CV-41-1	KP 41+480	595881	7888202	86	1.088	0.505	2.148	1.5m culvert			22
CV-42-1	KP 42+550	596485	7887328	87	0.716	0.384	1.560	1.5m culvert			16
CV-43-1	KP 43+151	596594	7886740	88	0.302	0.190	0.731	1.5m culvert			19
CV-43-2	KP 43+685	596576	7886207	89	0.125	0.092	0.362	1.5m culvert			12
CV-44-1	KP 44+090	596561	7885802	90	1.946	0.940	3.724	Pipe arch 3.1x2.0		Yes	17
CV-44-2	KP 44+390	596550	7885502	91	0.062	0.045	0.214	1.5m culvert	cut under embankment or evaluate 1 m culvert		10

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CV-44-3	KP 44+917	596551	7884976	92	2.168	0.760	3.281	Pipe arch 3.1x2.0		Yes	45
CV-45-1	KP 45+949	597159	7884188	93+94	2.658	1.117	4.488	3 x 1.5m culvert	relocated to KP 45+900		14
CV-47-1	KP 47+810	598223	7882688	95	0.045	0.034	0.152	no structure specified	Porous rock embankment		
CV-49-1	KP 49+114	597961	7881470	96	0.244	0.155	0.589	1.5m culvert			14
CV-49-2	KP 49+401	597790	7881238	97	0.744	0.367	1.603	1.5m culvert			20
CV-49-3	KP 49+974	597451	7880777	98	1.275	0.651	2.646	1.5m culvert			18
CV-50-1	KP 50+151	597346	7880635	99	0.084	0.062	0.239	1.5m culvert			24
CV-50-2	KP 50+841	596937	7880079	100	0.734	0.378	1.493	1.5m culvert			14
CV-51-1	KP 51+332	596682	7879662	101	0.143	0.107	0.411	1.5m culvert	cut under embankment or evaluate 1 m culvert		15
CV-51-2	KP 51+664	596622	7879337	102	6.982	5.107	14.050	3 x 3m culvert			17
CV-52-1	KP 52+543	596972	7878562	103	0.299	0.204	0.646	1.5m culvert			15
CV-52-2	KP 52+917	597276	7878344	104	6.304	4.711	13.080	2 x 3m culvert		Yes	52
CV-53-1	KP 53+411	597682	7878063	105	0.566	0.332	1.137	1.5m culvert			57
CV-56-1	KP 56+320	598812	7875711	106	0.359	0.242	0.899	1.5m culvert			102
CV-57-1	KP 57+590	599439	7874631	107	0.023	0.025	0.081	no structure specified	Porous rock embankment		
BR-57-1	KP 57+805.	599447	7874417	108	11.956	7.811	20.800	Short span bridge			
BR-59-1	KP 59+767.	598858	7872547	109+110	9.765	6.656	17.940	Short span bridge	Add flows from 109 and 110		
CV-60-1	KP 60+628	598646	7871712	111	0.669	0.409	1.517	1.5m culvert			23
CV-62-1	KP 62+886	598242	7869614	112	8.633	6.039	16.400	2 x 3m culvert		Yes	35
CV-63-1	KP 63+838	598618	7868739	113	2.019	0.797	3.285	3m culvert			19
CV-64-1	KP 64+820	599006	7867836	114	7.372	5.331	14.620	3 x 3m culvert			27
CV-65-1	KP 65+146	599134	7867537	115	0.119	0.087	0.306	1.5m culvert			31
CV-65-2	KP 65+421	599243	7867284	116	0.372	0.233	0.842	1.5m culvert	evaluate use of low pipe arch		17
CV-67-1	KP 67+078	600269	7866042	117	1.367	0.690	2.576	1.5m culvert	evaluate use of low pipe arch		16
CV-68-1	KP 68+073	601078	7865463	118	0.703	0.394	1.406	1.5m culvert			18
CV-69-1	KP 69+195	601904	7864757	119	0.242	0.171	0.611	1.5m culvert	May require second structure		18
CV-69-2	KP 69+640	602125	7864370	120	0.927	0.450	1.733	1.5m culvert			37
CV-71-1	KP 71+737	602564	7862400	121	2.876	1.333	6.127	3m culvert			33

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CV-73-1	KP 73+167	603092	7861082	122	4.606	1.973	9.120	2 x 3m culvert			15
CV-74-1	KP 74+585	603759	7859894	123	0.762	0.444	1.879	1.5m culvert	evaluate use of low pipe arch		12
CV-75-1	KP 75+144	603763	7859336	124	0.476	0.314	1.270	1.5m culvert			16
CV-75-2	KP 75+622	603944	7858901	125	2.459	1.079	5.047	3m culvert			13
CV-76-1	KP 76+013	604251	7858661	126	17.517	10.562	27.500	3 x Pipe arch 3.1x2.0		Yes	19
CV-76-2	KP 76+082	604309	7858624	126	17.517	10.562	27.500	3 x Pipe arch 3.1x2.0		Yes	14
CV-76-3	KP 76+185	604396	7858569	126	17.517	10.562	27.500	3 x Pipe arch 3.1x2.0		Yes	20
CV-77-1	KP 77+069	605007	7857943	NEW				1.5 culvert			27
CV-77-2	KP 77+202	605069	7857825	NEW				1.5 culvert			24
CV-78-1	KP 78+635	605518	7856472	127	20.819	12.105	31.190	2 x Pipe arch 4.4x2.9		Yes	93
CV-78-2	KP 78+874	605517	7856234	128	0.039	0.031	0.134	1.5m culvert			38
CV-78-3	KP 78+997	605514	7856111	129	0.355	0.234	0.988	1.5m culvert			26
CV-79-1	KP 79+228	605510	7855880	130+131	0.008	0.008	0.274	1.5m culvert	Add flows from 130 and 131		48
CV-79-2	KP 79+436	605517	7855672	132	0.045	0.041	0.149	1.5m culvert	cut under embankment		16
CV-79-3	KP 79+613	605523	7855495	133	0.752	0.390	1.805	1.5m culvert			207
CV-79-4	KP 79+980	605525	7855128	134	0.257	0.181	0.781	1.5m culvert			55
CV-80-1	KP 80+177	605520	7854931	135	0.384	0.223	0.983	1.5m culvert			51
CV-80-2	KP 80+420	605514	7854688	136	0.018	0.018	0.089	1.5m culvert			50
CV-80-3	KP 80+617	605509	7854492	137	1.149	0.593	2.768	1.5m culvert			28
CV-80-4	KP 80+663	605508	7854446	138	0.033	0.028	0.135	1.5m culvert			26
CV-80-5	KP 80+890	605503	7854219	139	0.024	0.022	0.106	1.5m culvert			16
CV-81-1	KP 81+015	605499	7854094	140	0.007	0.007	0.036	1.5m culvert			23
CV-81-2	KP 81+072	605498	7854036	141	0.082	0.057	0.249	1.5m culvert			38
CV-81-3	KP 81+164	605496	7853945	142	0.062	0.053	0.195	1.5m culvert			22
CV-81-4	KP 81+424	605504	7853686	143	0.077	0.062	0.248	1.5m culvert			30
CV-81-5	KP 81+778	605638	7853361	144	2.045	1.002	4.804	3m culvert			28
CV-81-6	KP 81+903	605718	7853264	145	0.028	0.023	0.101	1.5m culvert			33
CV-81-7	KP 81+979	605772	7853211	146	0.011	0.012	0.054	1.5m culvert			22
CV-82-1	KP 82+101	605860	7853126	147	0.057	0.046	0.204	1.5m culvert			31

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CV-82-2	KP 82+246	605964	7853026	148	0.638	0.333	1.574	1.5m culvert			38
CV-82-3	KP 82+379	606060	7852934	149	0.100	0.070	0.302	1.5m culvert			39
CV-82-4	KP 82+526	606166	7852831	150	0.079	0.059	0.268	1.5m culvert			28
CV-83-1	KP 83+070	606425	7852361	151	0.182	0.119	0.511	1.5m culvert	cut under embankment		194
CV-83-2	KP 83+158	606442	7852275	152	0.096	0.071	0.306	1.5m culvert			42
CV-83-3	KP 83+360	606450	7852073	153	0.833	0.414	1.975	1.5m culvert	Possibly redirect		17
CV-83-4	KP 83+791	606415	7851643	154	0.896	0.446	2.141	1.5m culvert			27
CV-84-1	KP 84+254	606386	7851181	155	2.077	0.914	4.453	3m culvert			40
CV-84-2	KP 84+450	606406	7850987	156	0.084	0.067	0.342		redirected to CV-84-1		20
CV-85-1	KP 85+135	606352	7850306	157	0.224	0.144	0.642	1.5m culvert			83
CV-85-2	KP 85+380	606381	7850063	158	0.456	0.284	1.260	1.5m culvert	Possibly redirect down slope		
CV-86-1	KP 86+606	606180	7848859	159	12.401	8.039	21.360	4 x 3m culvert	cut rock under alignment		15
BR-91-1	KP 91+840	605934	7843776	160	12.173	7.922	21.080	Short span bridge			
BR-92-1	KP 92+935	606356	7842767	161	16.391	10.021	26.190	Short span bridge			
CV-93-1	KP 93+266	606496	7842468	162	0.863	0.419	2.112	1.5m culvert	cut rock under alignment		14
CV-93-2	KP 93+561	606649	7842218	163	2.553	1.209	6.107	3m culvert	cut rock under alignment		13
BR-95-1	KP 95+525	607951	7840793	164	1569.197	368.110	731.680	Bridge		Yes	BR
BR-96-1	KP 96+363	608545	7840211	165	38.067	19.500	48.450	Short span bridge			
BR-96-2	KP 96+897	608708	7839705	166	30.738	16.469	41.450	Short span bridge			
CV-99-1	KP 99+261	608594	7837414	167	0.385	0.235	1.101	1.5m culvert	cut rock under alignment		22
BR-99-1	KP 99+541	608459	7837169	168	29.108	15.775	39.830	Short span bridge			
CV-101-1	KP 101+370	607062	7836041	169	0.793	0.489	2.286	1.5m culvert	cut rock under alignment		14
BR-105-1	KP 105+133	604165	7833828	170	29.508	15.946	40.230	Short span bridge			46
CV-105-1	KP 105+979	603377	7833541	171	0.373	0.214	1.000	1.5m culvert	cut rock under alignment		16
CV-107-1	KP 107+932	601557	7833054	172	0.851	0.457	2.210	1.5m culvert	cut rock under alignment		15
CV-109-1	KP 109+385	600761	7831883	173	0.291	0.176	0.824	1.5m culvert			29
CV-110-1	KP 110+797	599832	7830830	174	0.606	0.341	1.604	1.5m culvert	cut rock under alignment		21
CV-111-1	KP 111+797	599060	7830203	175	43.254	21.570	53.180	3 x 3m culvert	cut rock under alignment		21
CV-117-1	KP 117+370	597976	7825752	176	0.446	0.271	1.285	1.5m culvert			74

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CV-117-2	KP 117+663	598198	7825571	177	1.434	0.686	3.462	3m culvert			56
CV-117-3	KP 117+728	598230	7825513	178	2.246	1.121	5.625	3m culvert			39
CV-118-1	KP 118+018	598367	7825258								73
CV-118-2	KP 118+775	598603	7824545	179	1.443	0.760	3.717	3m culvert			28
CV-119-1	KP 119+037	598585	7824286	180	0.322	0.223	1.061	1.5m culvert			33
CV-119-2	KP 119+366	598535	7823963	181	0.316	0.211	0.988	1.5m culvert			21
CV-119-3	KP 119+967	598604	7823370	182	0.529	0.332	1.561	1.5m culvert			35
CV-120-1	KP 120+564	598639	7822779	183	0.674	0.426	1.996	1.5m culvert	cut rock under alignment		17
CV-121-1	KP 121+097	598596	7822248	184	0.347	0.235	1.095	1.5m culvert	cut rock under alignment		63
CV-121-2	KP 121+242	598571	7822105	NEW				1.5m culvert	cut rock under alignment		73
CV-121-3	KP 121+373	598549	7821976	NEW				1.5m culvert	cut rock under alignment		14
CV-121-4	KP 121+493	598523	7821859	185	0.393	0.255	1.196	1.5m culvert			36
CV-121-5	KP 121+974	598368	7821404	186	0.361	0.236	1.108	1.5m culvert			31
CV-123-1	KP 123+188	598386	7820275	188	0.089	0.074	0.439	1.5m culvert			55
CV-123-2	KP 123+348	598451	7820128	189	0.117	0.088	0.511	1.5m culvert			63
CV-123-3	KP 123+580	598478	7819899	190	14.647	9.169	24.120	3 x Pipe arch 3.9x2.7		Yes	15
CV-123-4	KP 123+811	598486	7819668	191	50.901	24.531	59.890	4 x Pipe arch 4.4x2.9		Yes	21
CV-123-5	KP 123+833	598486	7819646	191				1.5m culvert			26
CV-123-6	KP 123+866	598487	7819613	191				1.5m culvert			20
CV-123-7	KP 123+937	598490	7819542	191				1.5m culvert			14
CV-124-1	KP 124+085	598495	7819394	NEW				no structure specified	rock embankment		13
CV-124-2	KP 124+157	598497	7819322	192	0.010	0.009	0.039	no structure specified	rock embankment		19
CV-124-3	KP 124+267	598501	7819212	193	0.040	0.030	0.152	1.5m culvert			22
CV-124-4	KP 124+576	598499	7818904	194	0.219	0.144	0.678	1.5m culvert			27
CV-124-5	KP 124+916	598438	7818569	195	1.293	0.646	3.266	3m culvert			118
CV-125-1	KP 125+051	598396	7818441	196	0.011	0.010	0.058	1.5m culvert			67
CV-125-2	KP 125+137	598364	7818362	197	0.193	0.129	0.604	1.5m culvert			69
CV-125-3	KP 125+904	598388	7817669	198	0.237	0.146	0.692	1.5m culvert			26
CV-126-1	KP 126+217	598585	7817430	199	0.508	0.334	1.578	1.5m culvert			51

Table F6.1
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CV-127-1	KP 127+394	598533	7816272	200	0.019	0.018	0.061	1.5m culvert			16
CV-127-2	KP 127+835	598585	7815834	201	0.053	0.040	0.212	1.5m culvert			85
CV-129-1	KP 129+450	599372	7814493	202	2.888	1.106	5.809	3m culvert			25
CV-131-1	KP 131+695	600628	7812716	203	1.332	0.673	3.405	3m culvert			77
CV-133-1	KP 133+158	600977	7811319	205	0.153	0.106	0.499	1.5m culvert	dykes required upstream		64
CV-133-2	KP 133+951	600858	7810618	206	0.034	0.032	0.180	1.5m culvert			66
CV-134-1	KP 134+274	600609	7810415	207	2.133	0.941	4.815	3m culvert			26
CV-134-2	KP 134+453	600444	7810347	NEW				1.5m culvert			93
CV-134-3	KP 134+710	600192	7810294	208	0.057	0.042	0.214	1.5m culvert	under embankment		14
CV-136-1	KP 136+193	598958	7809569	209	1.434	0.720	3.667	3m culvert			33
CV-136-2	KP 136+843	598552	7809072	210	1.732	0.762	4.072	3m culvert			40
BR-137-1	KP 137+955	598663	7807981	211	308.128	101.740	222.970	Bridge		Yes	BR
CV-138-1	KP 138+991	598855	7806965	212	0.333	0.184	0.928	1.5m culvert			25
CV-140-1	KP 140+550	598138	7805589	213	0.070	0.050	0.260	1.5m culvert			16
BR-141-1	KP 141+390	597527	7805029	214	45.382	22.404	55.080	Short span bridge		Yes	
CV-142-1	KP 142+079	597201	7804426	215	0.209	0.128	0.611	1.5m culvert			31
CV-142-2	KP 142+731	596927	7803835	216	5.383	4.158	9.363	Pipe arch 3.1x2.0		Yes	132

Notes:

Pipe arch capacity:

3.100x1.981: Q=1.45 m³/s

3.730x2.290: Q=5.43 m³/s

3.890x2.690: Q=10.84 cub.m/s

4.370x2.870: Q=18.30 m³/s

Round pipe culvert capacity:

1.5m: Q=1.56 m³/s

3m: Q= 9.9 m³/s