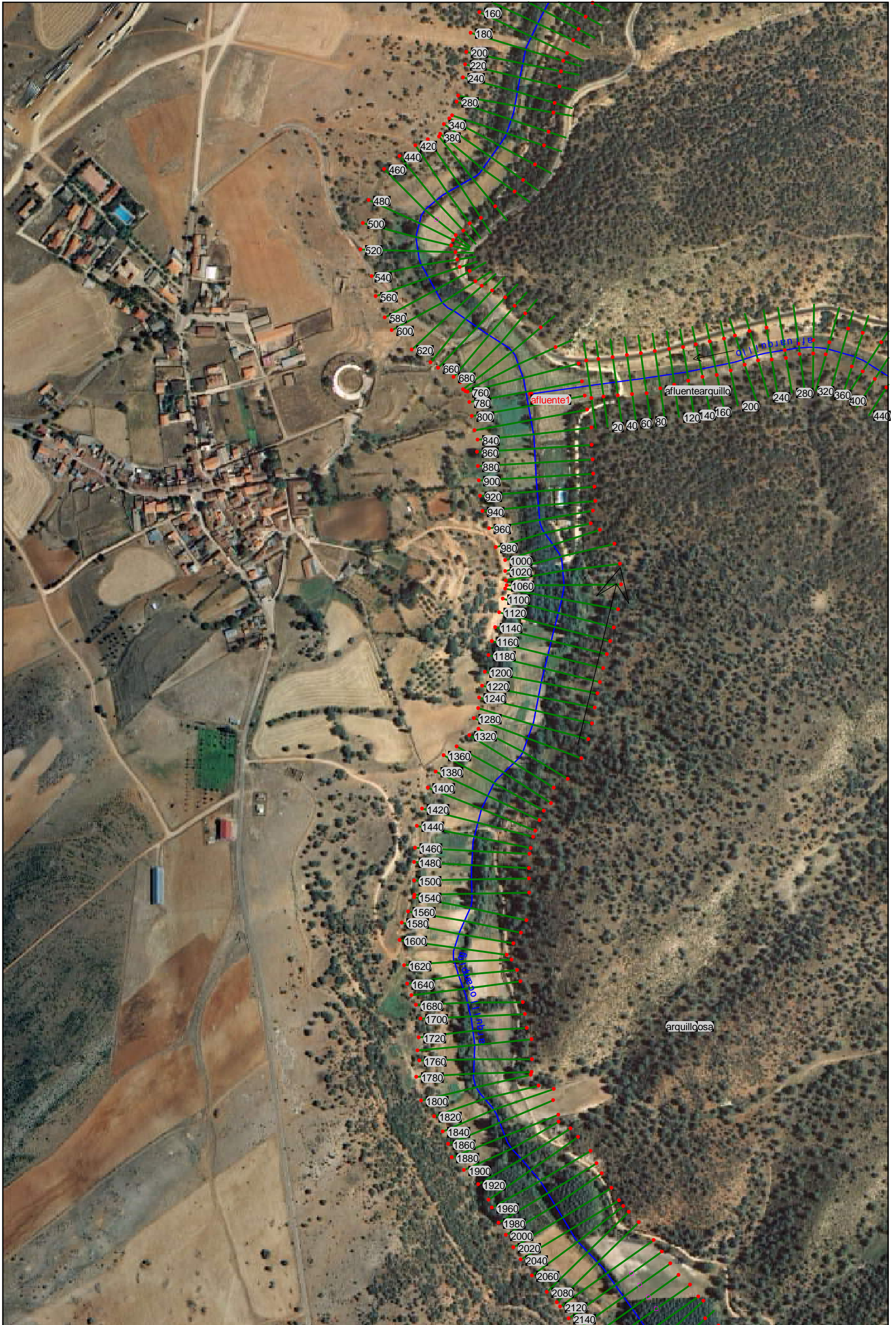


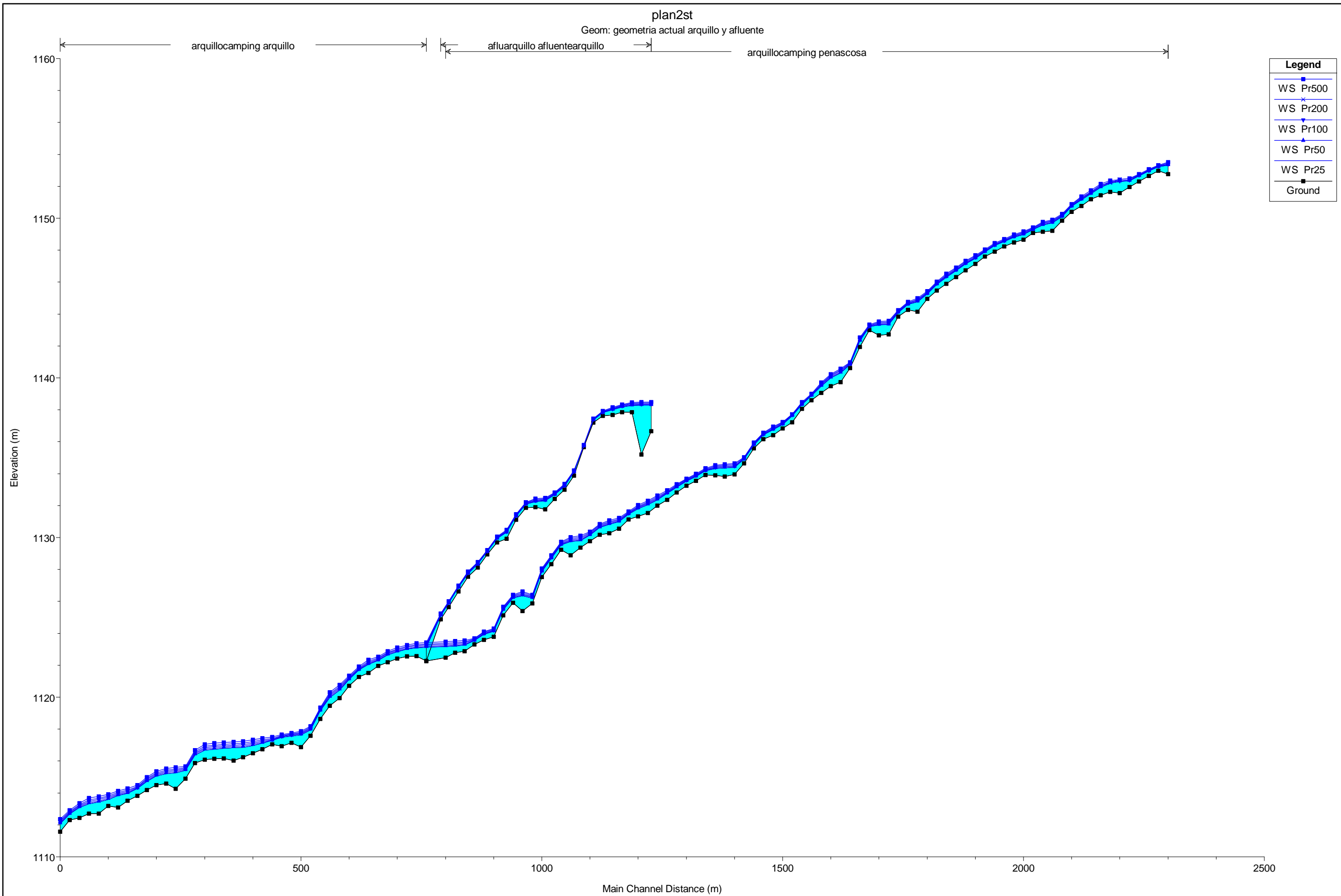
ANEXO 2. LISTADOS DE RESULTADOS HIDRÁULICOS. HEC-RAS

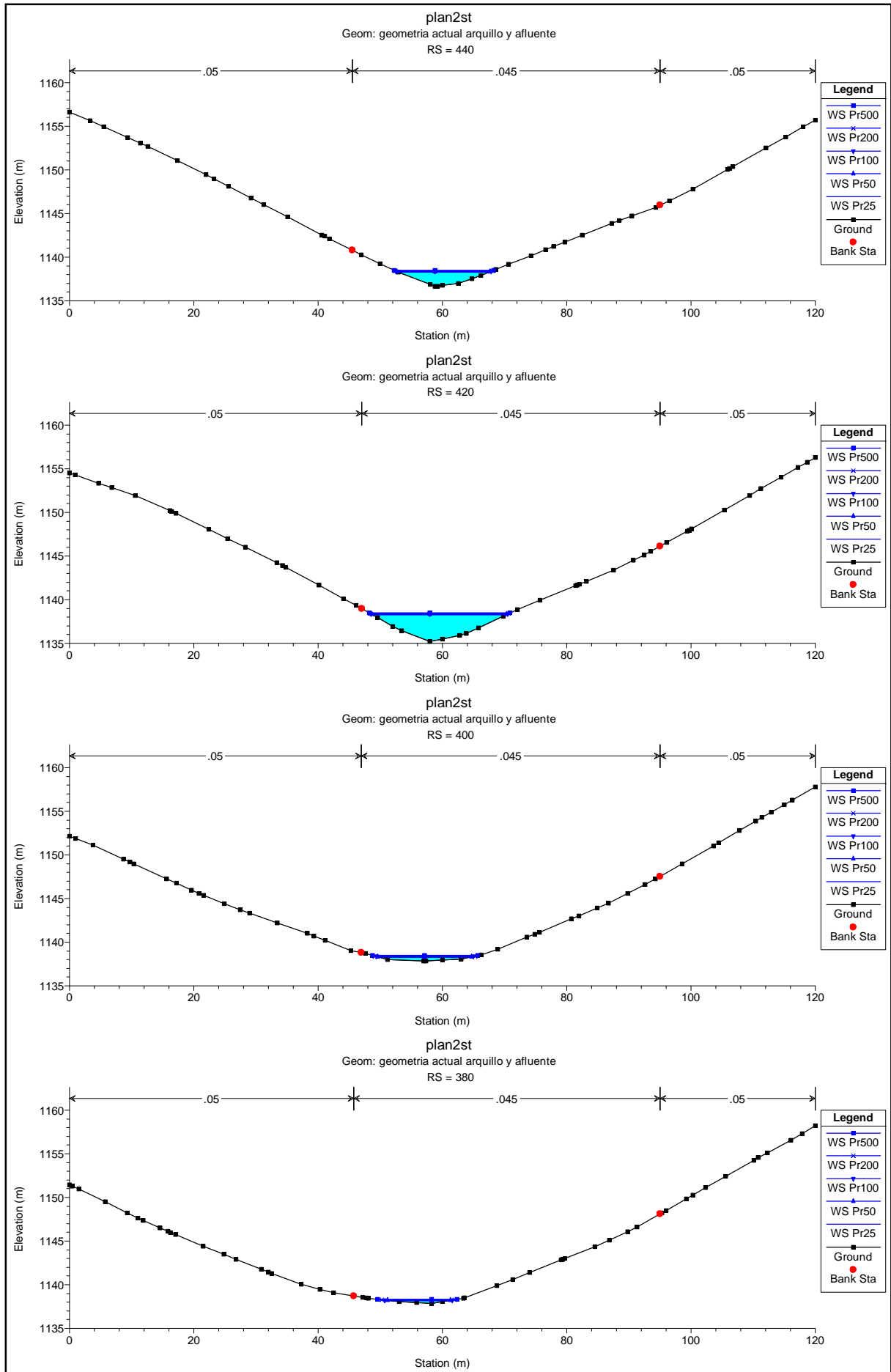
ANEXO 2. LISTADOS RESULTADOS HIDRÁULICOS. HEC-RAS

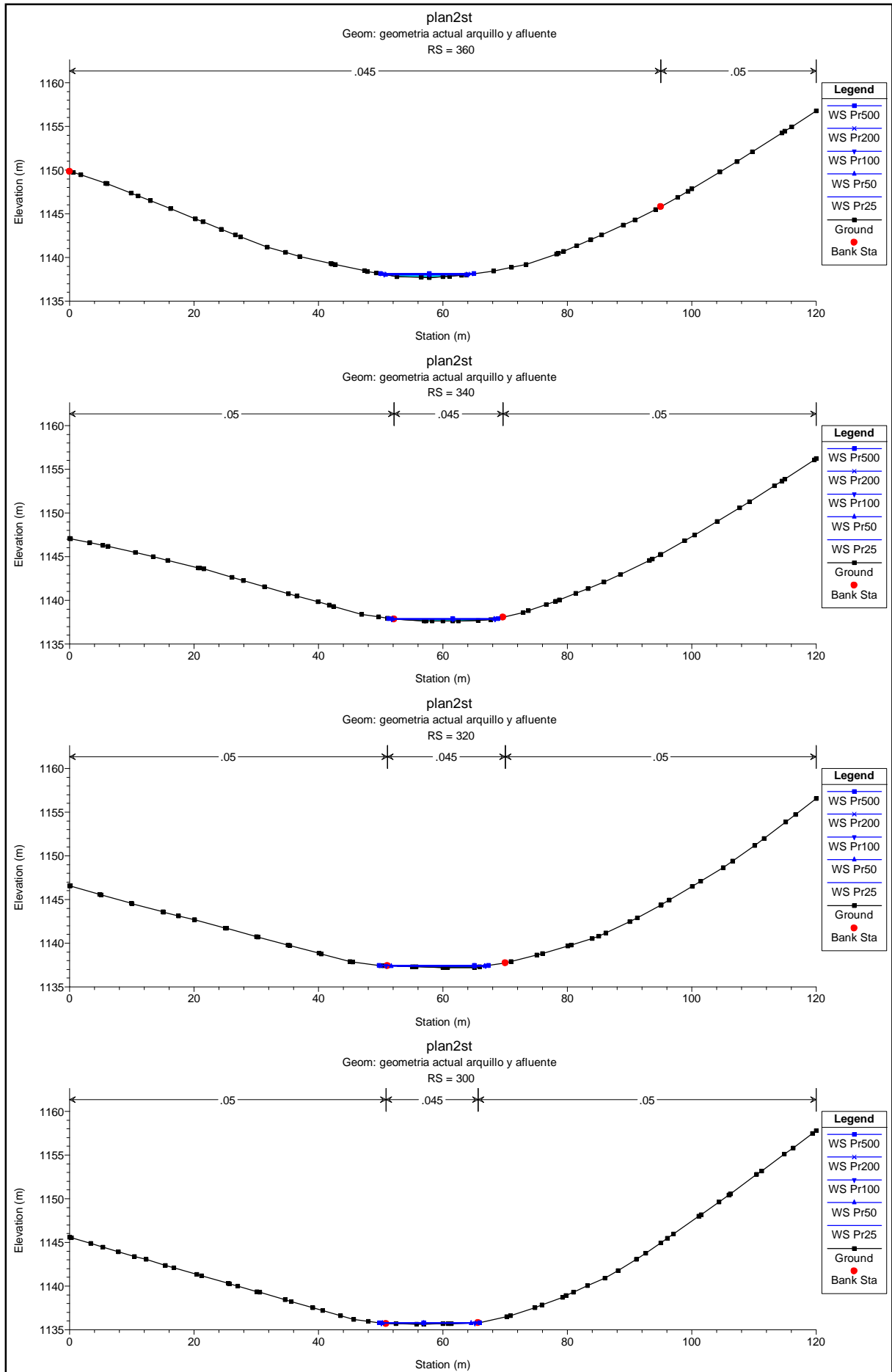
- **PEÑASCOSA**

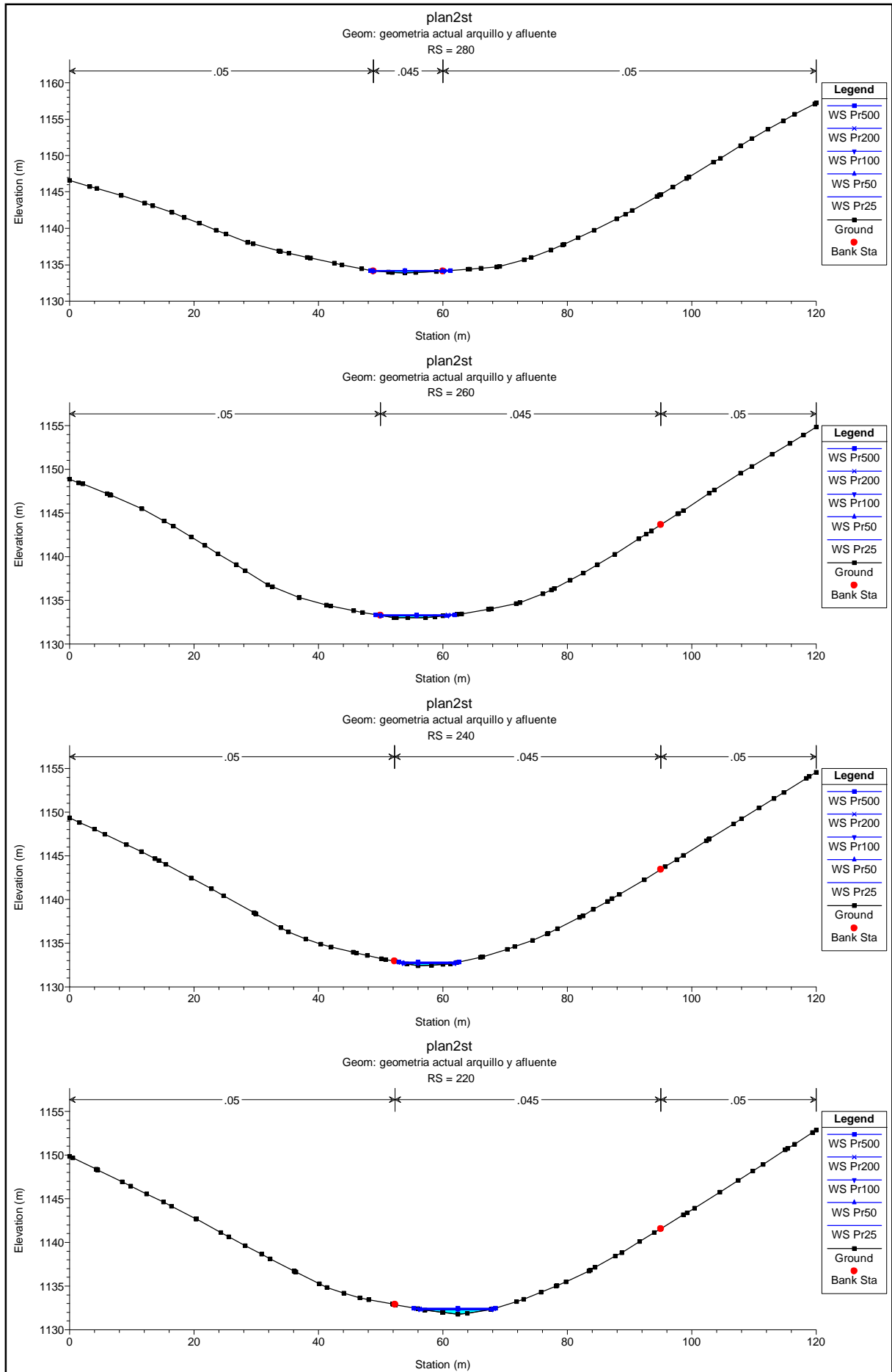


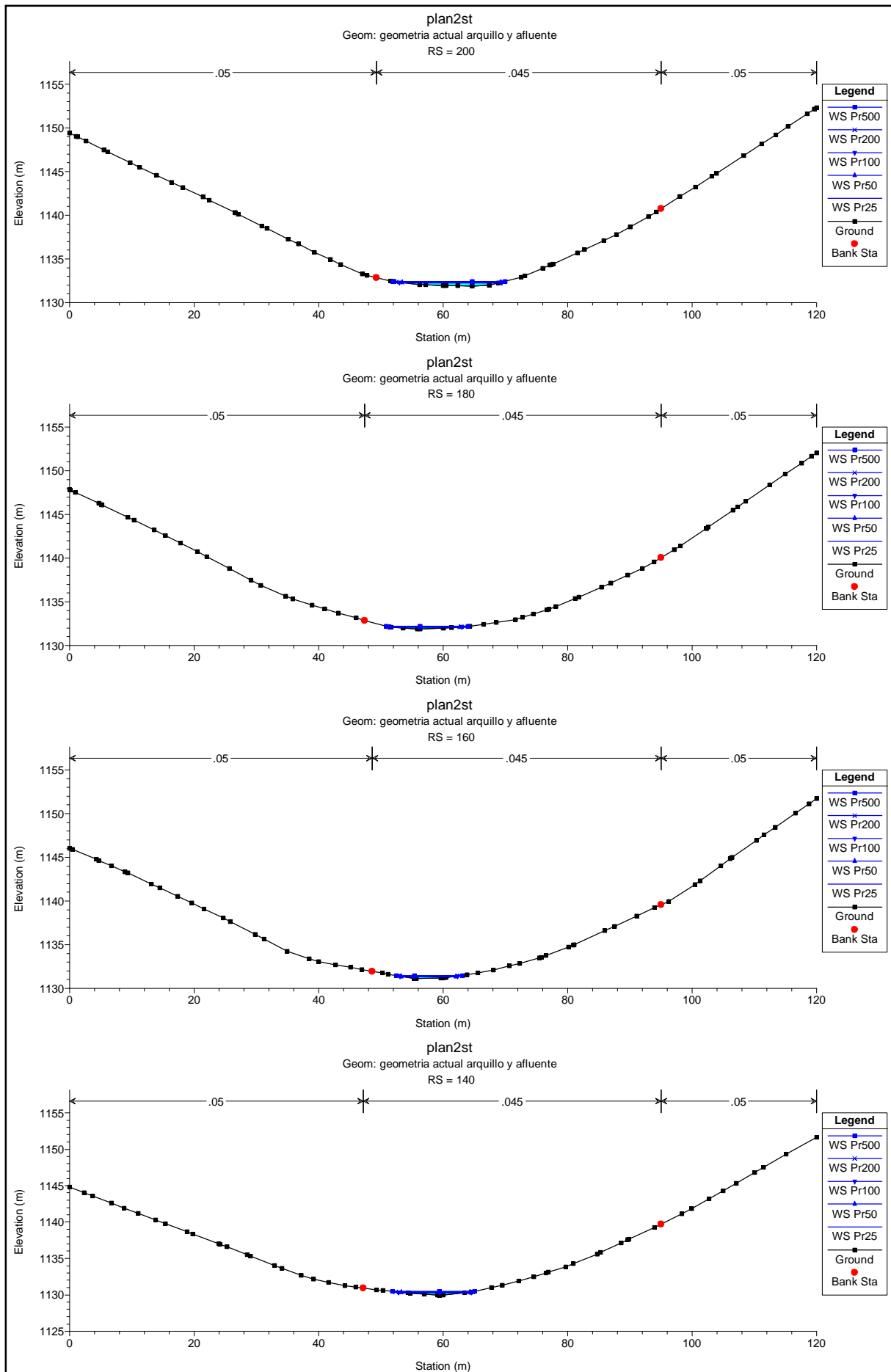
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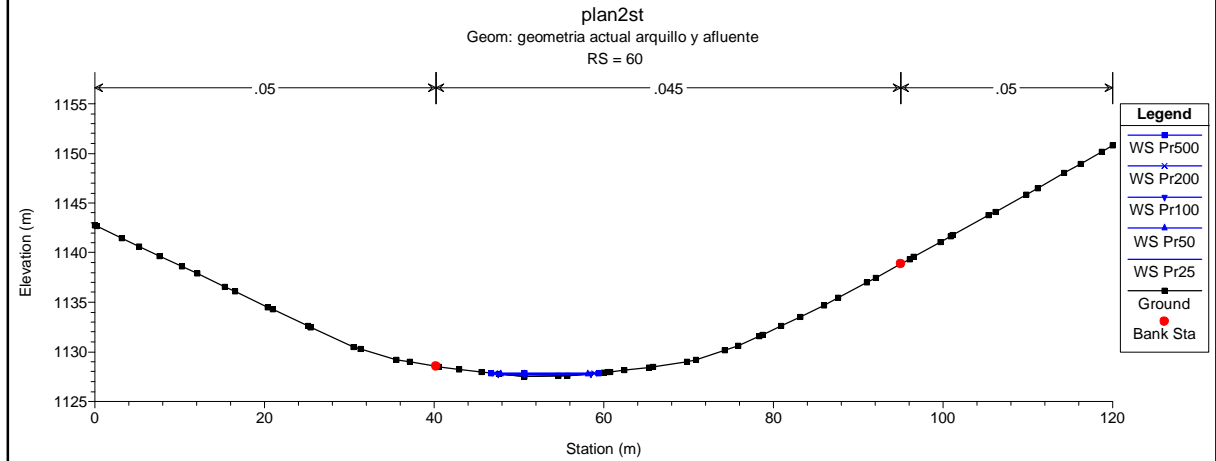
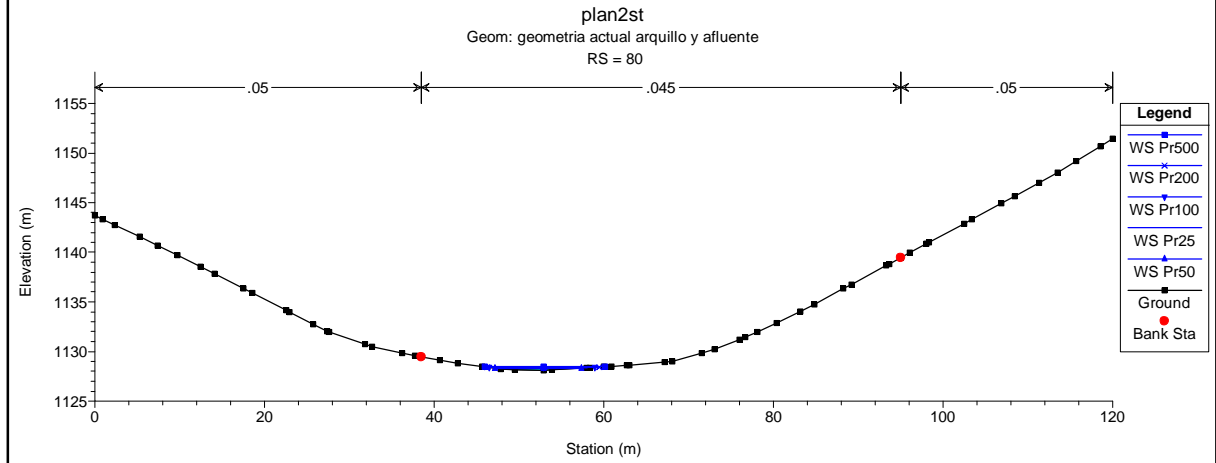
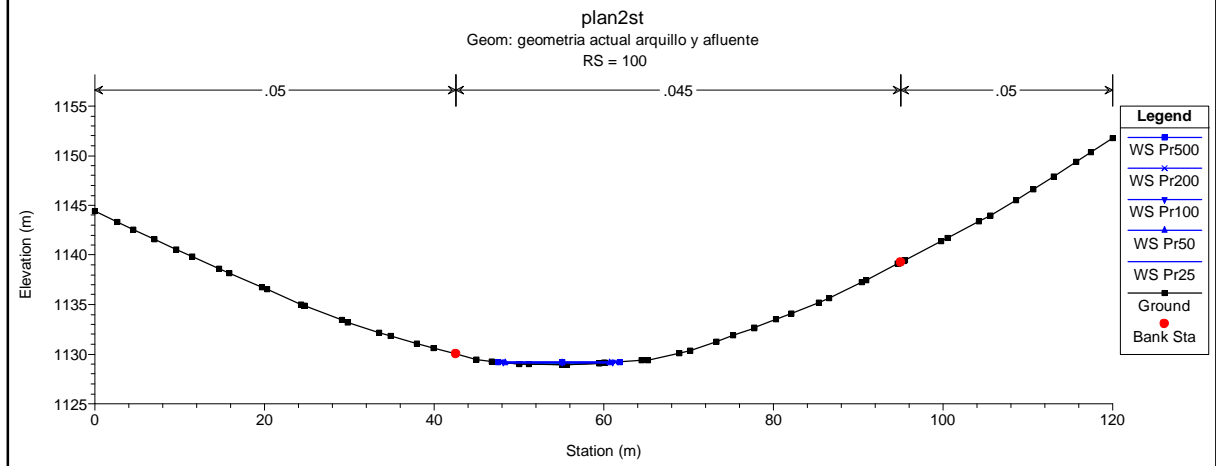
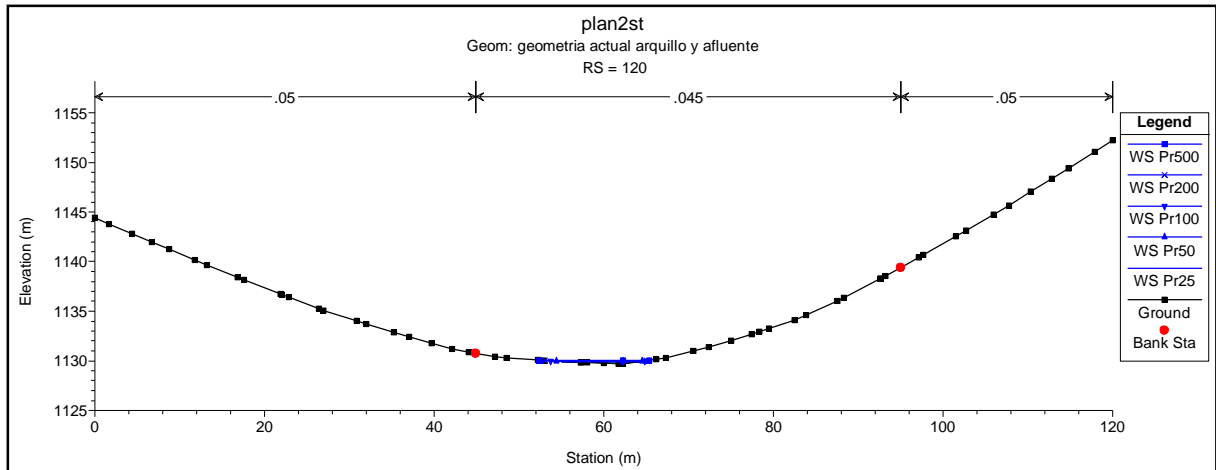


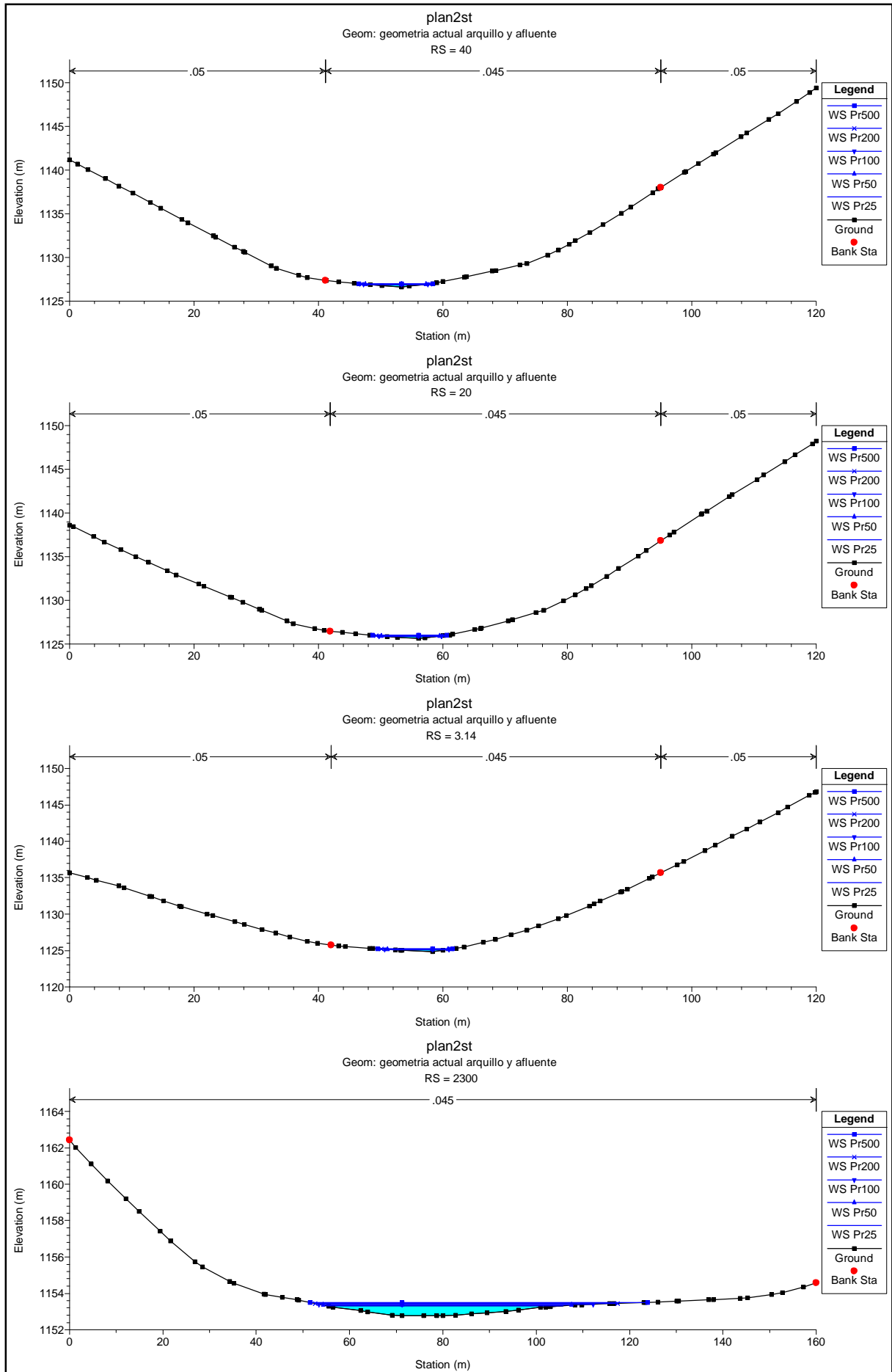


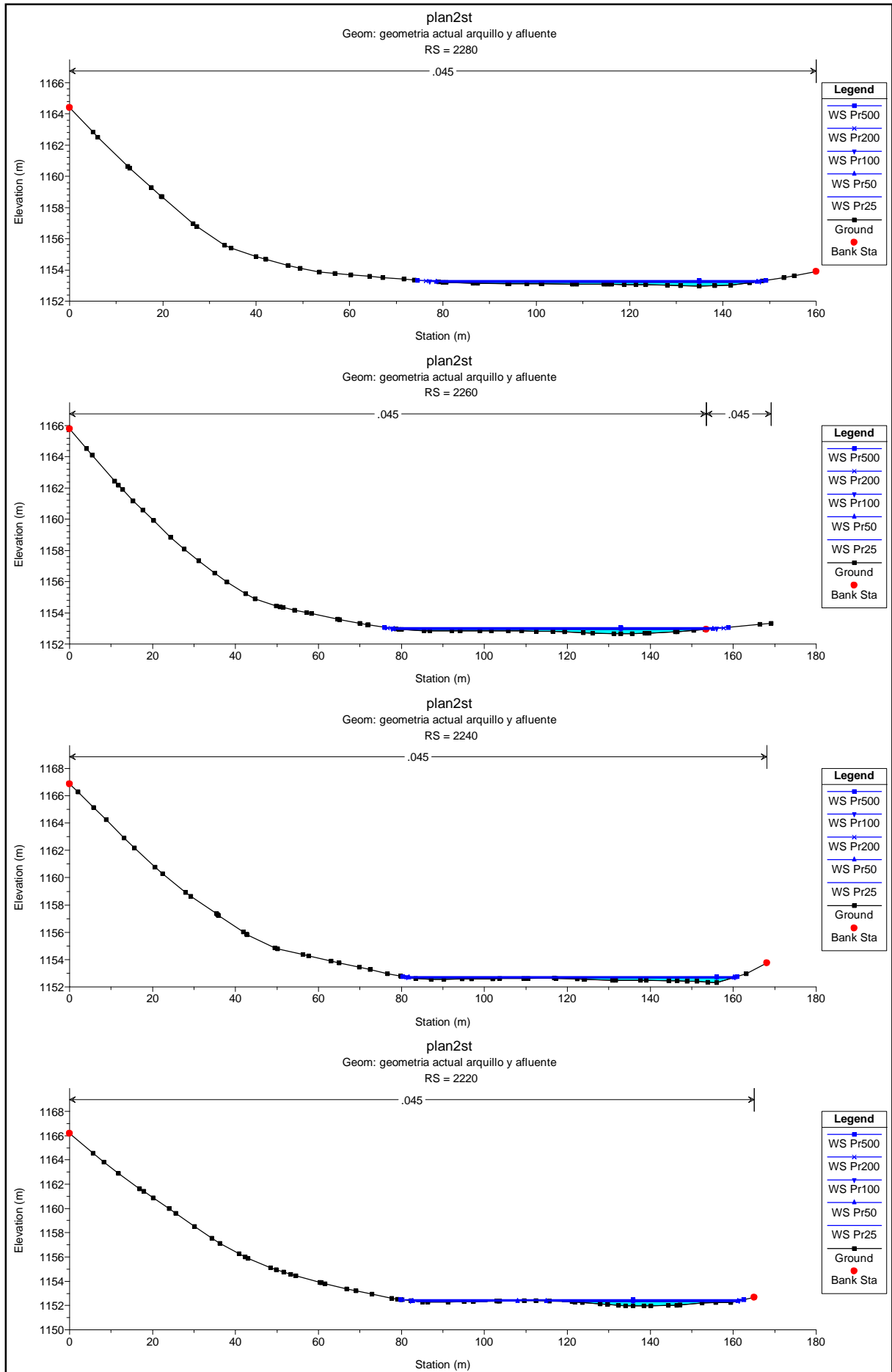


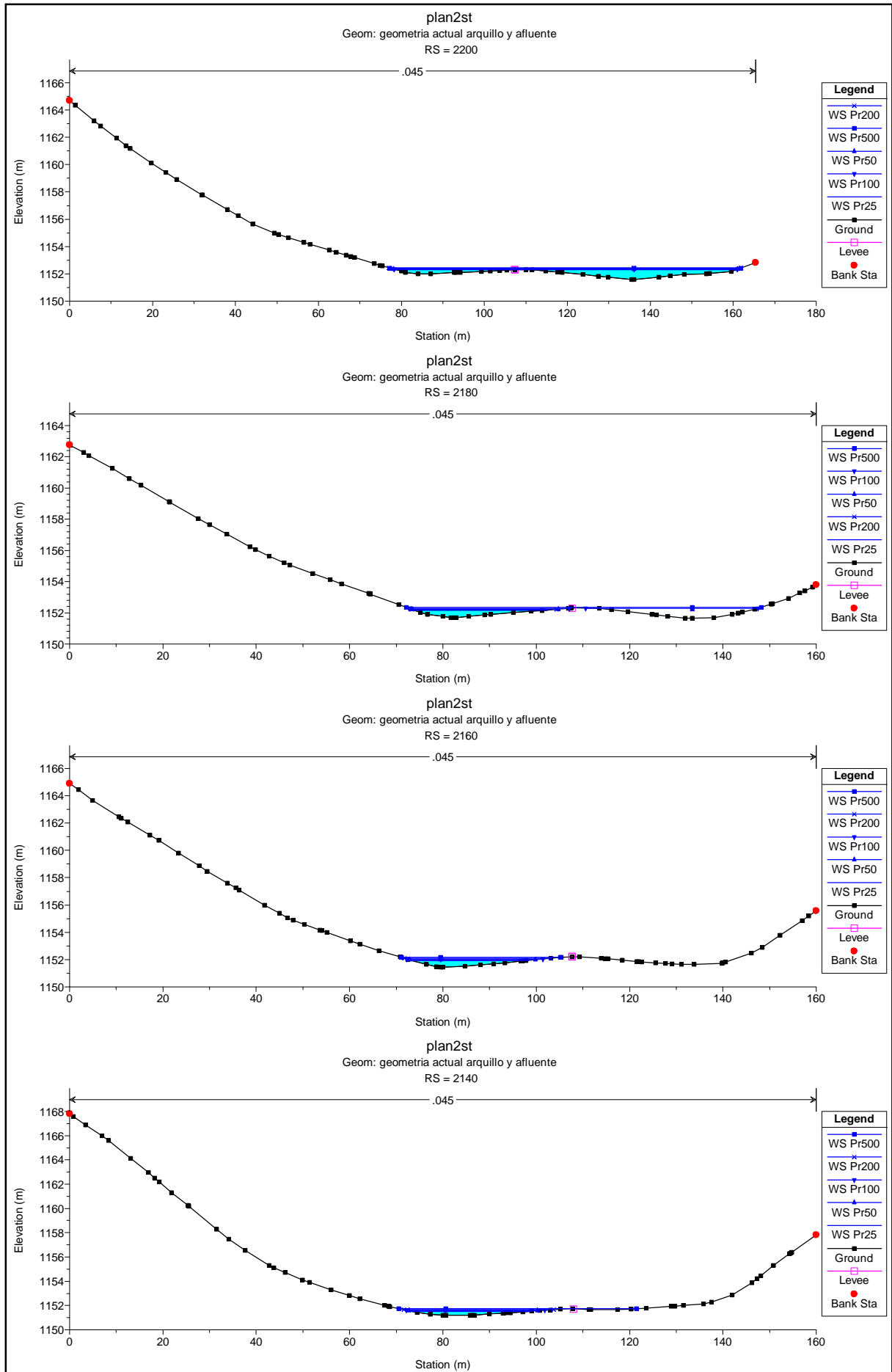


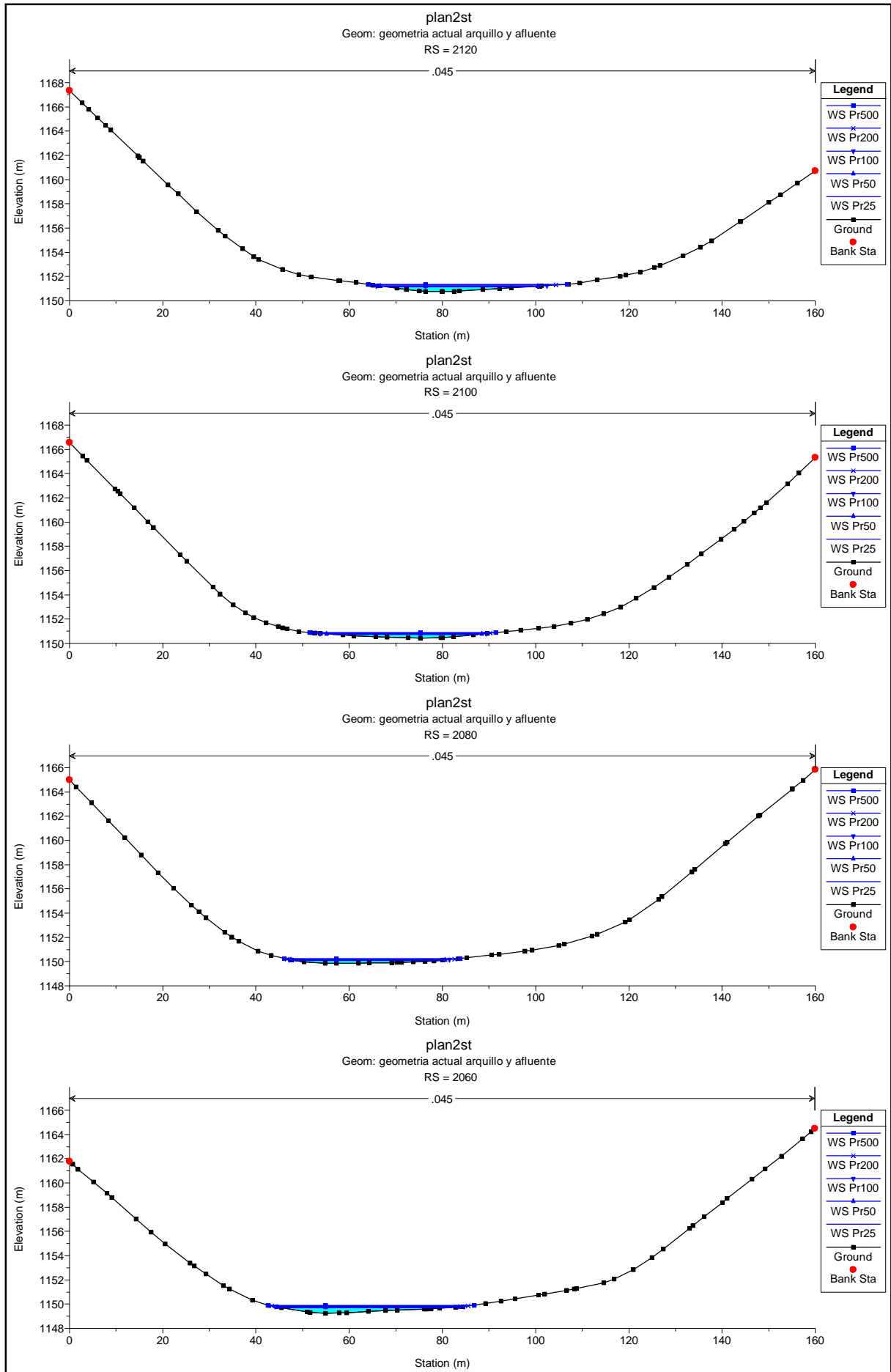


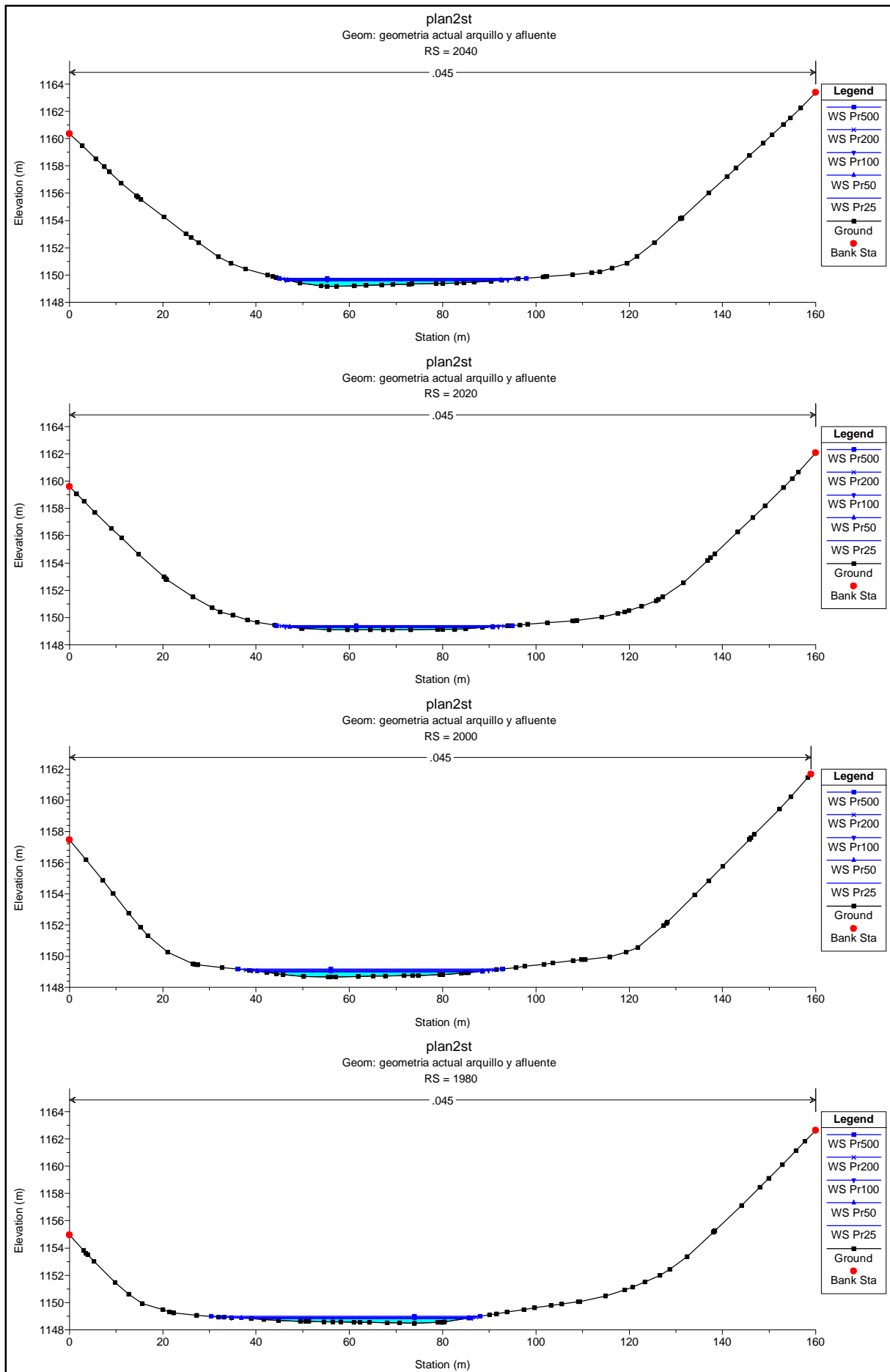


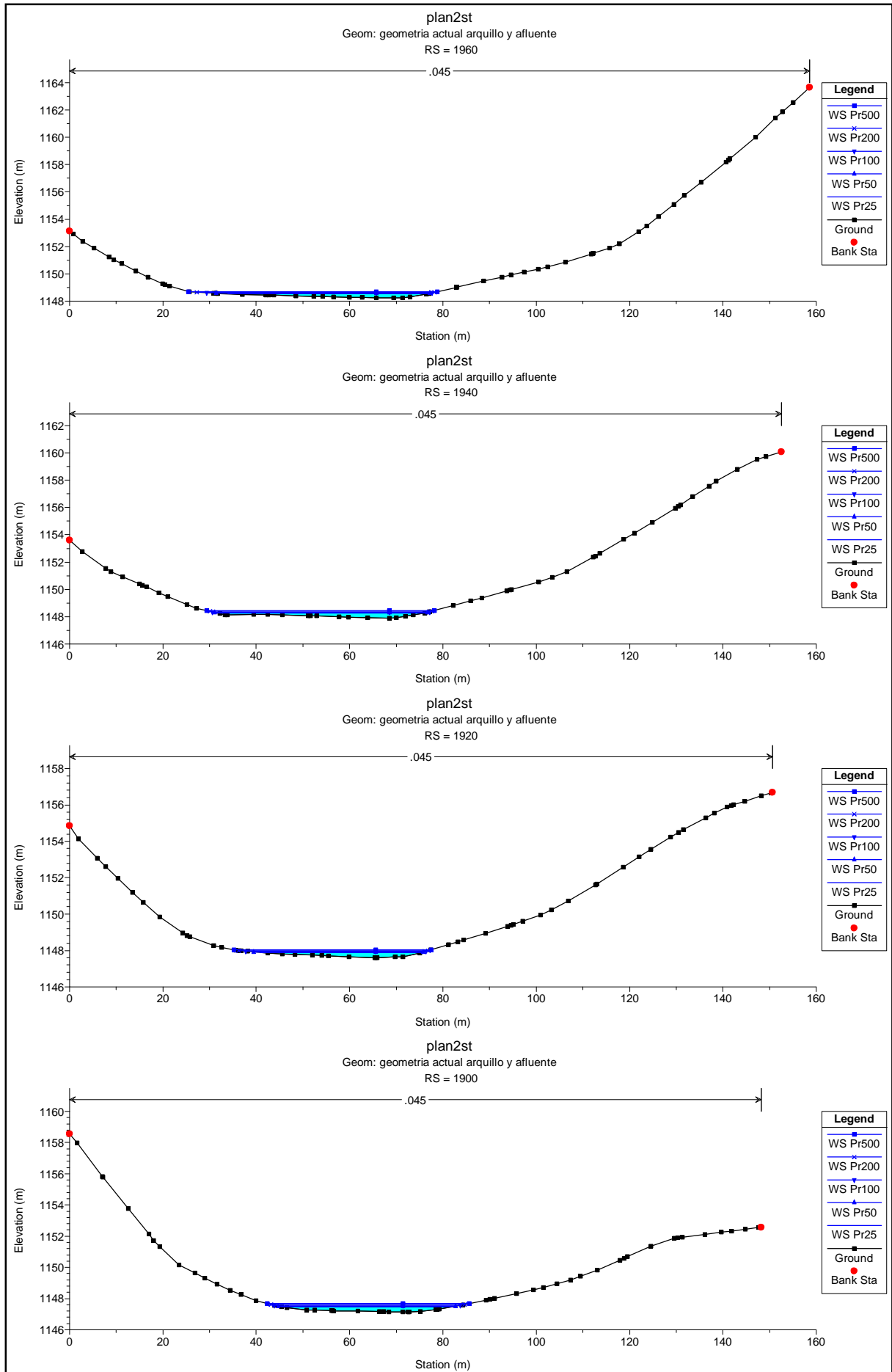


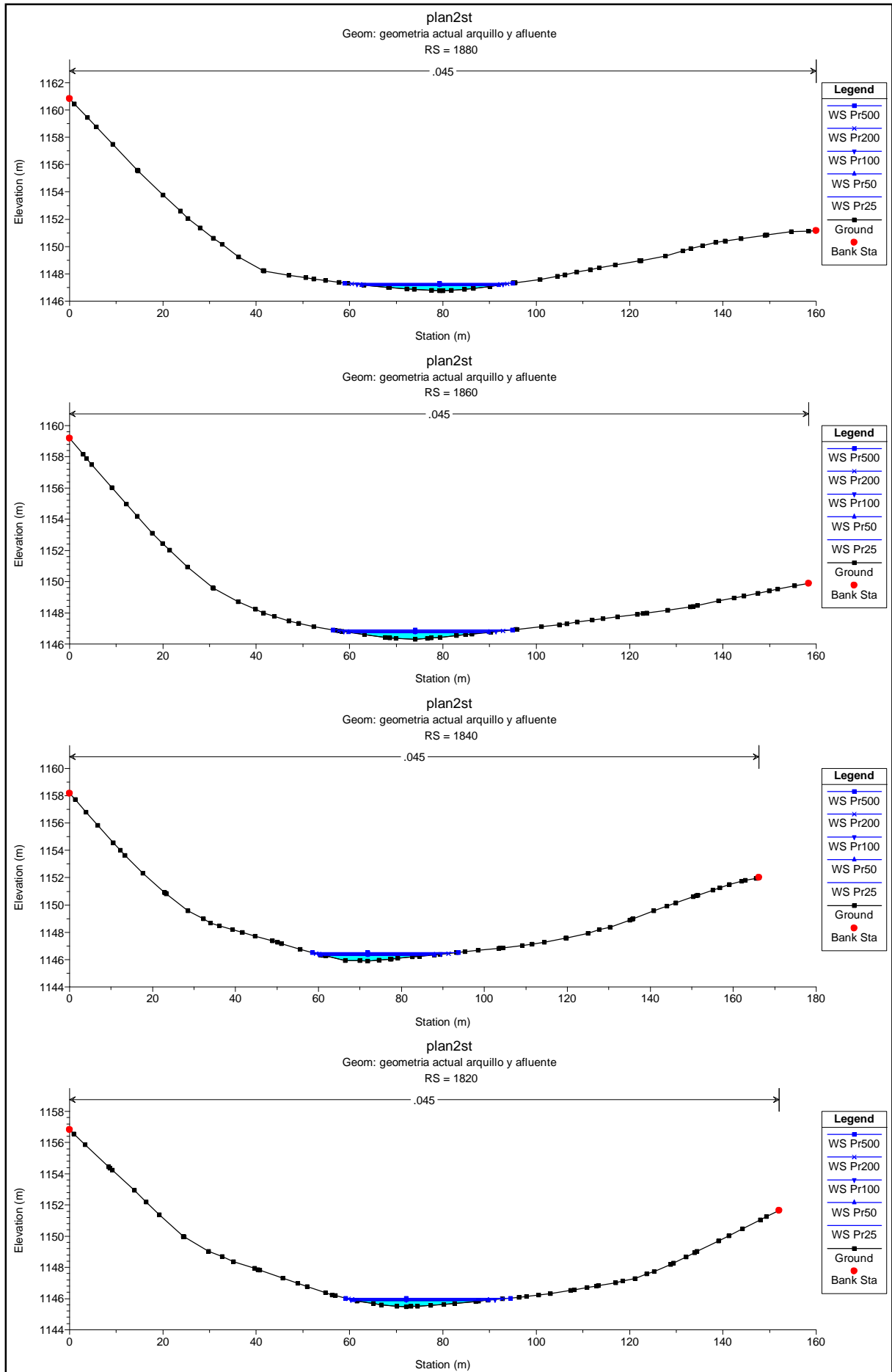


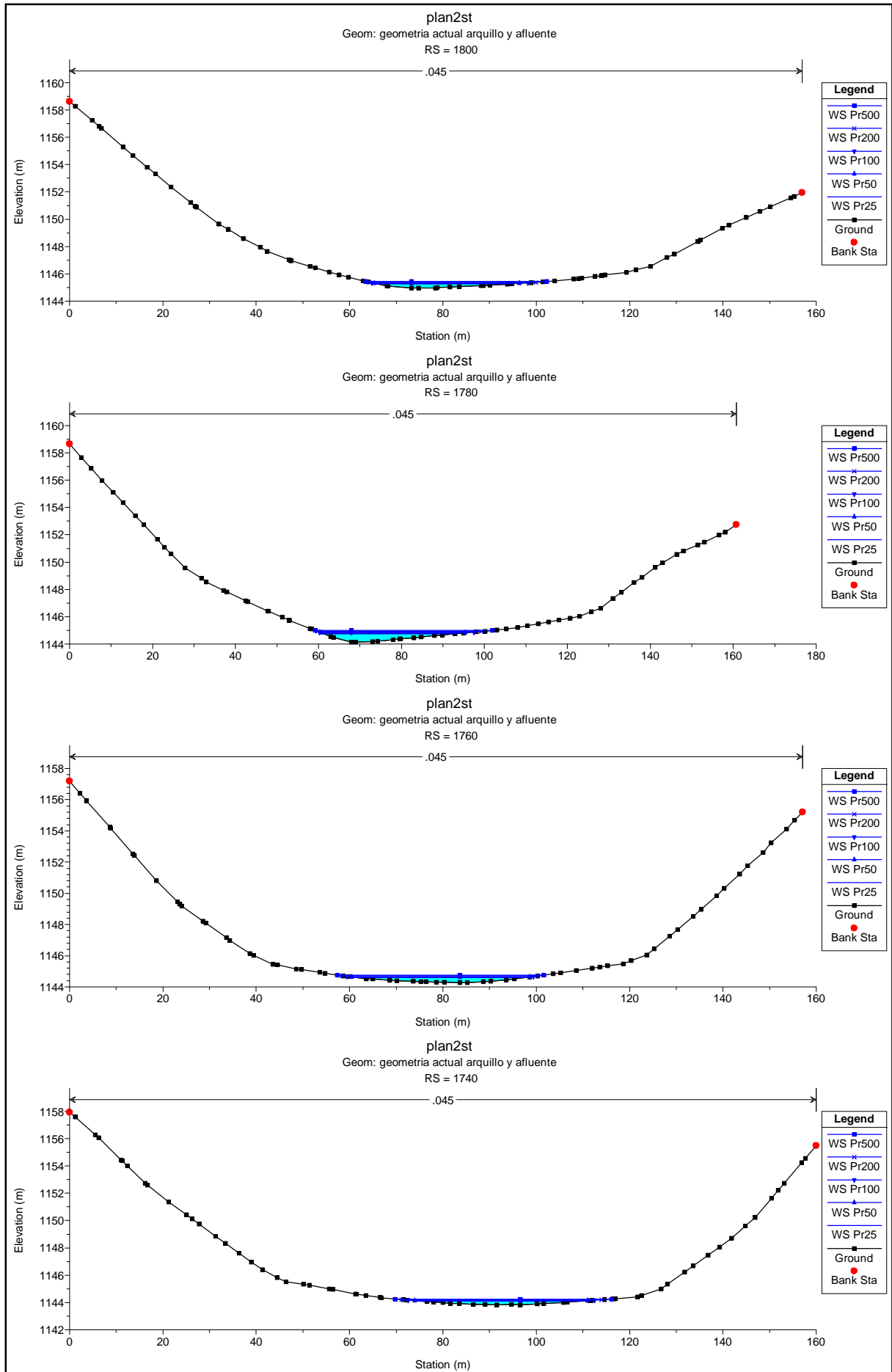


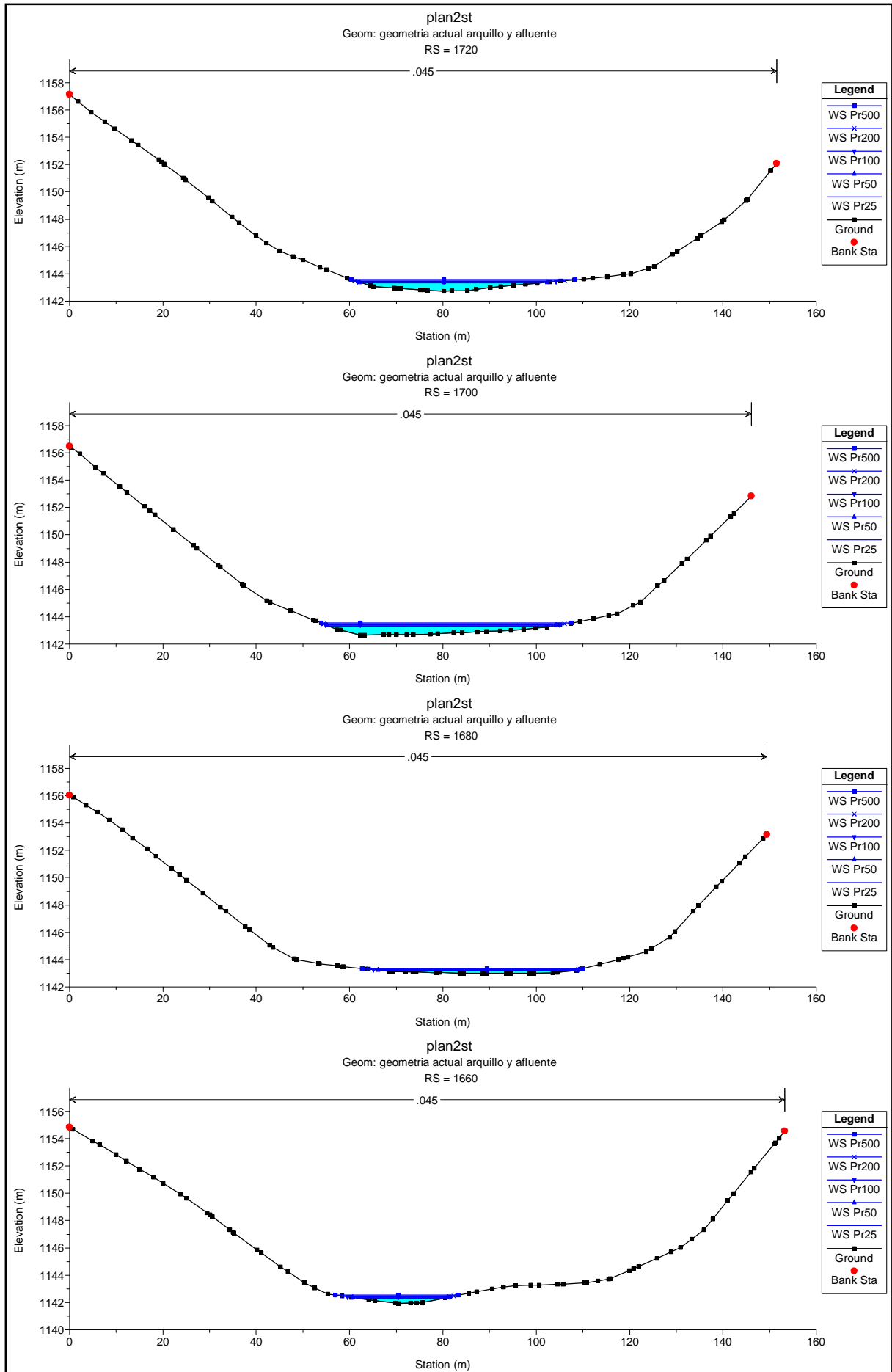


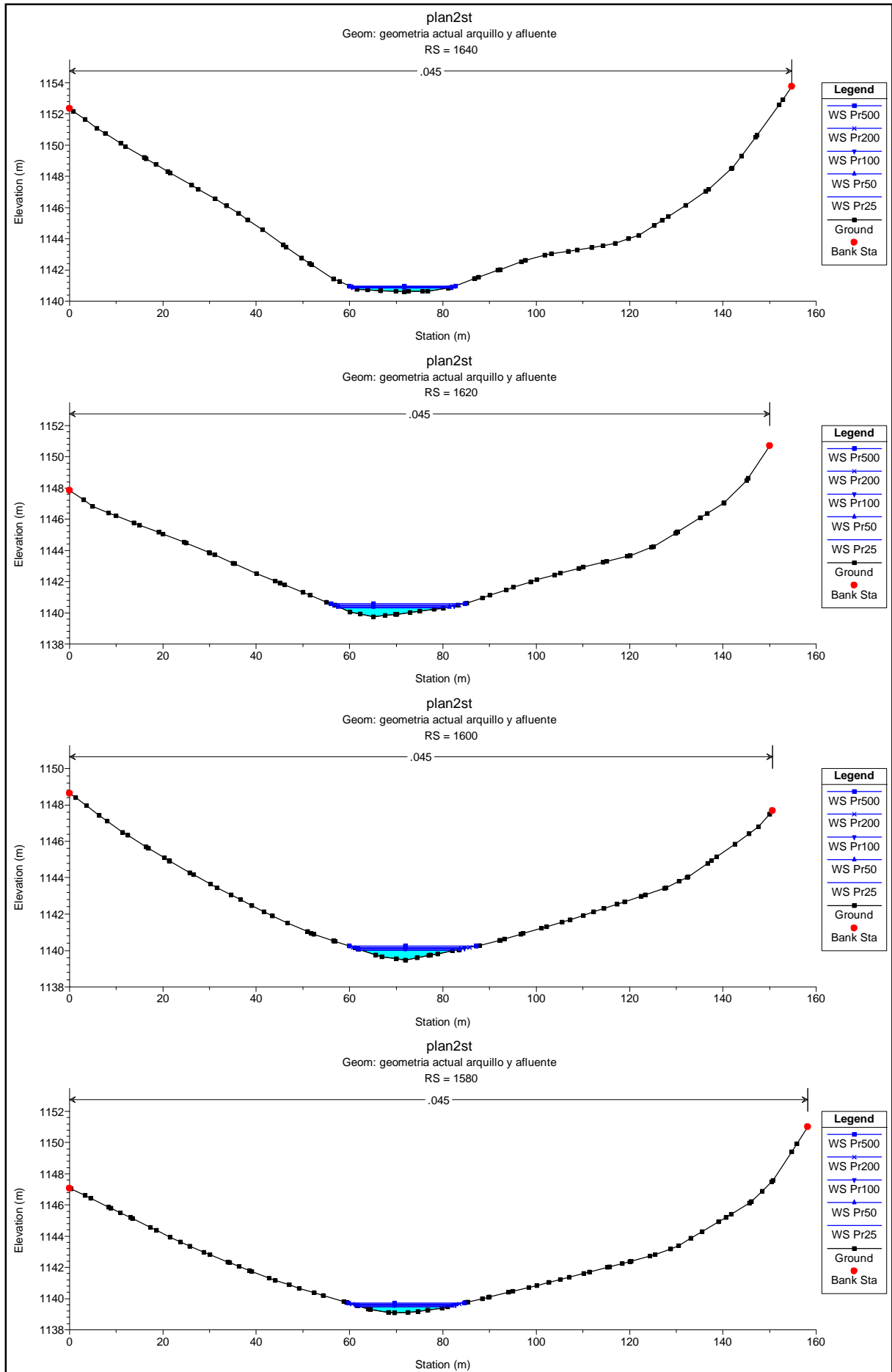


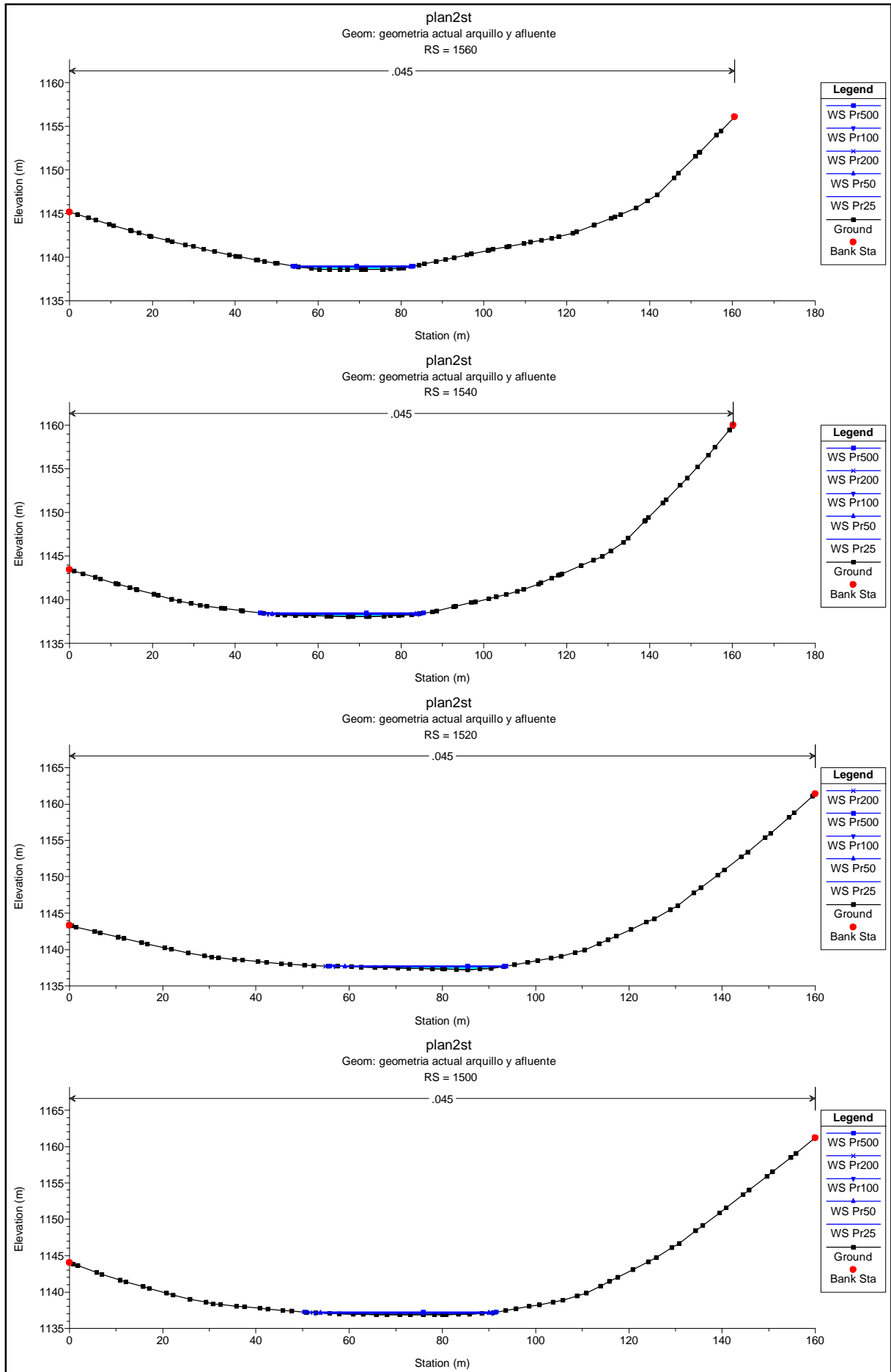


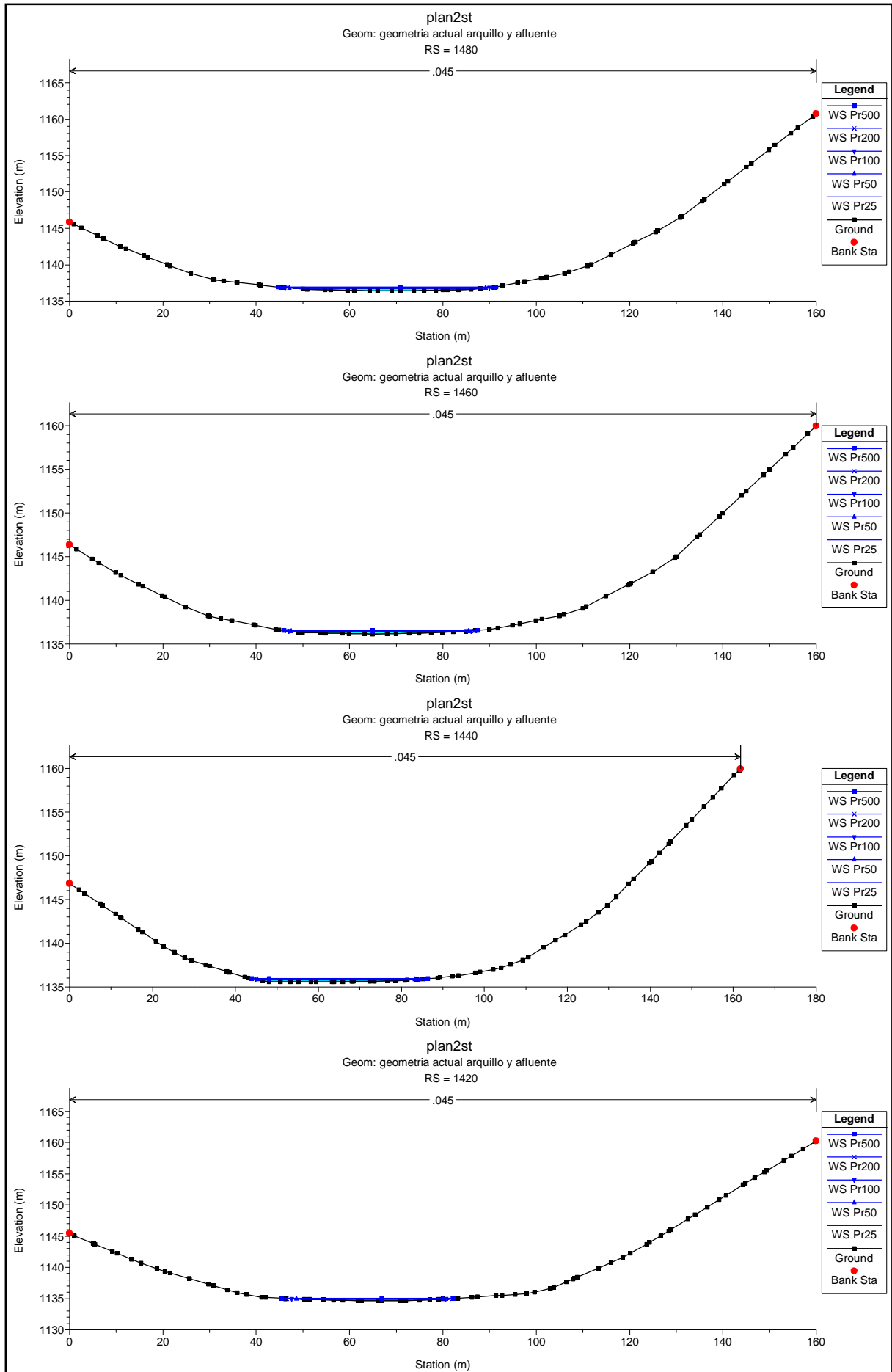


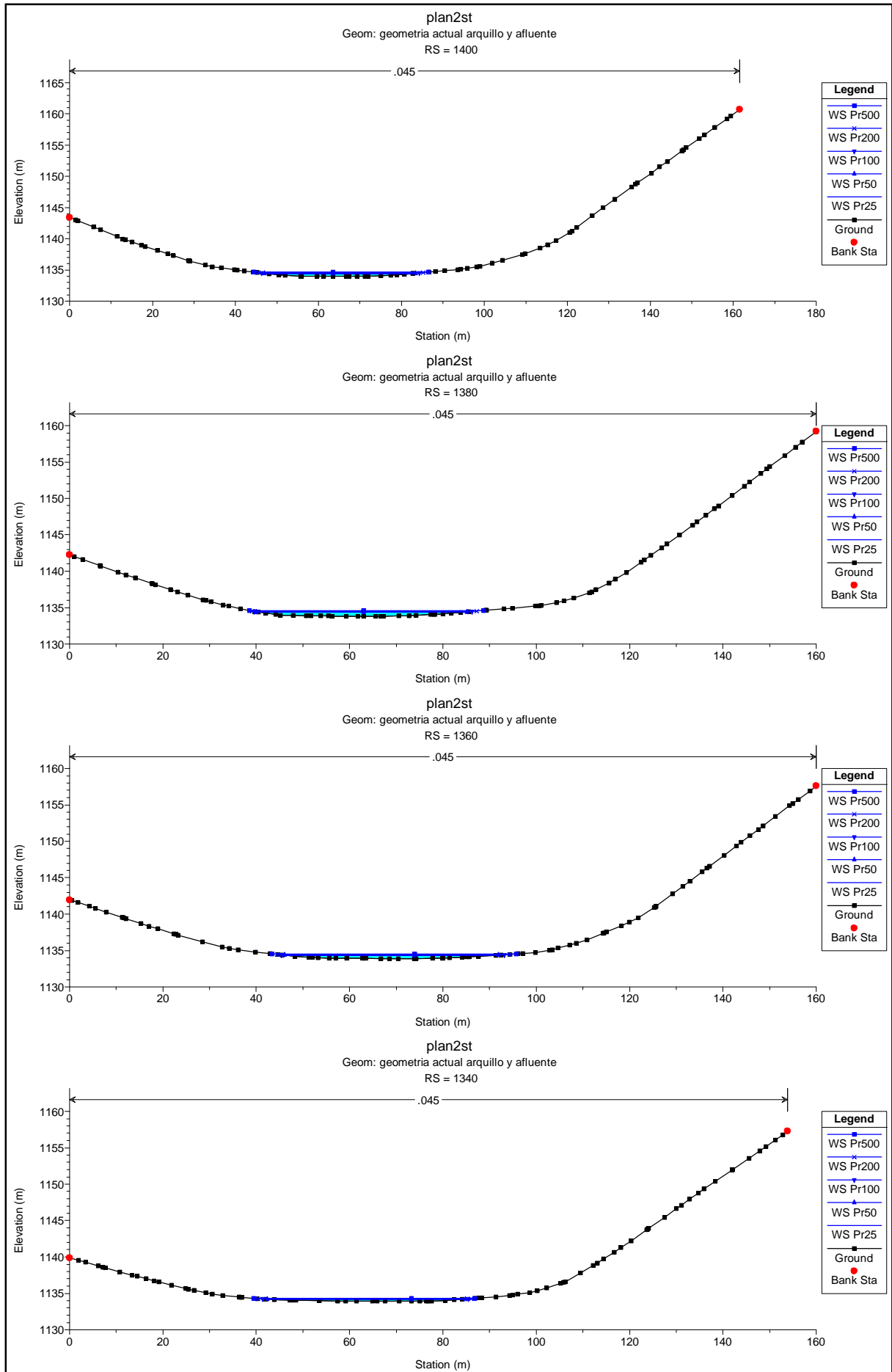


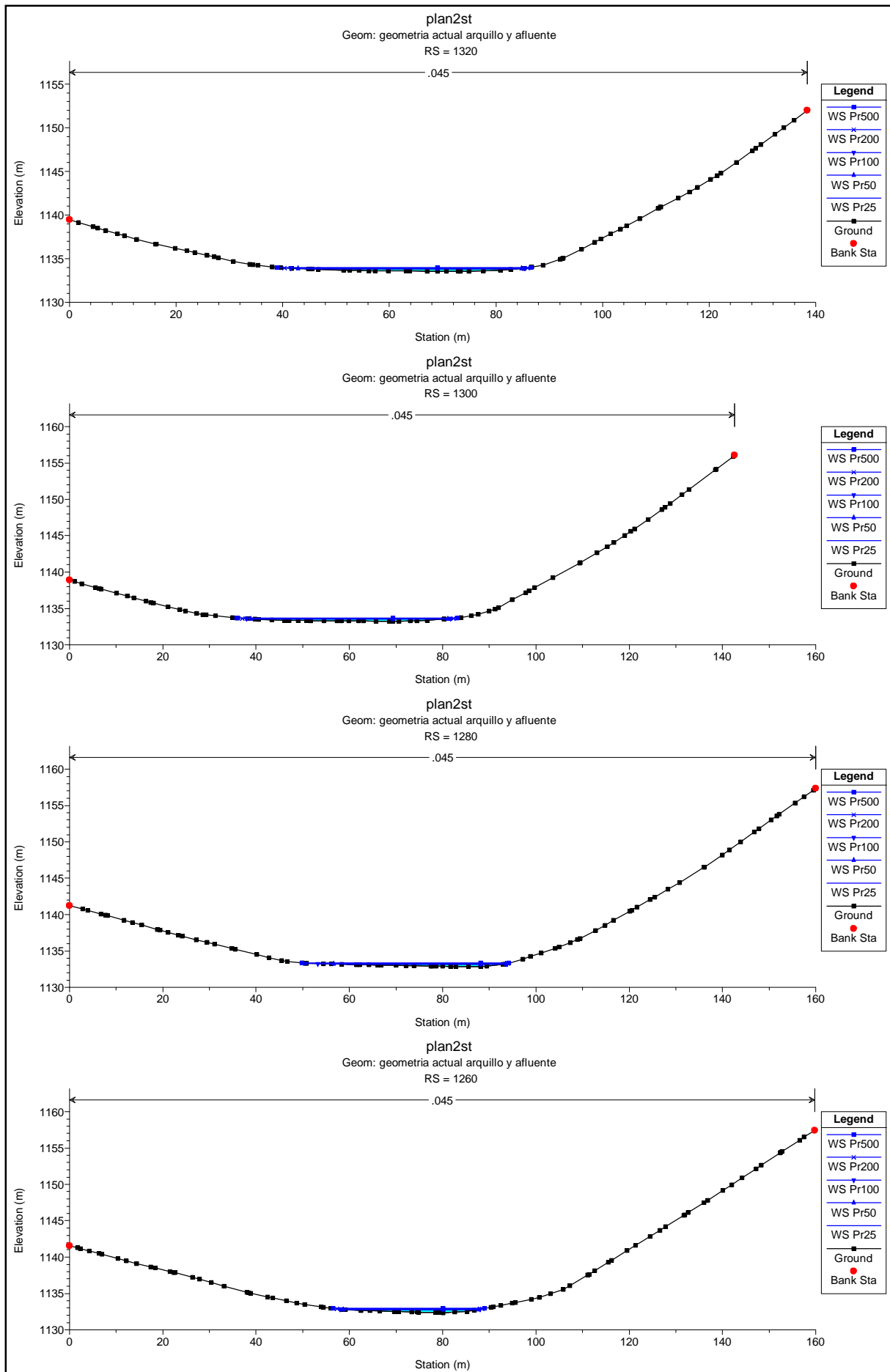


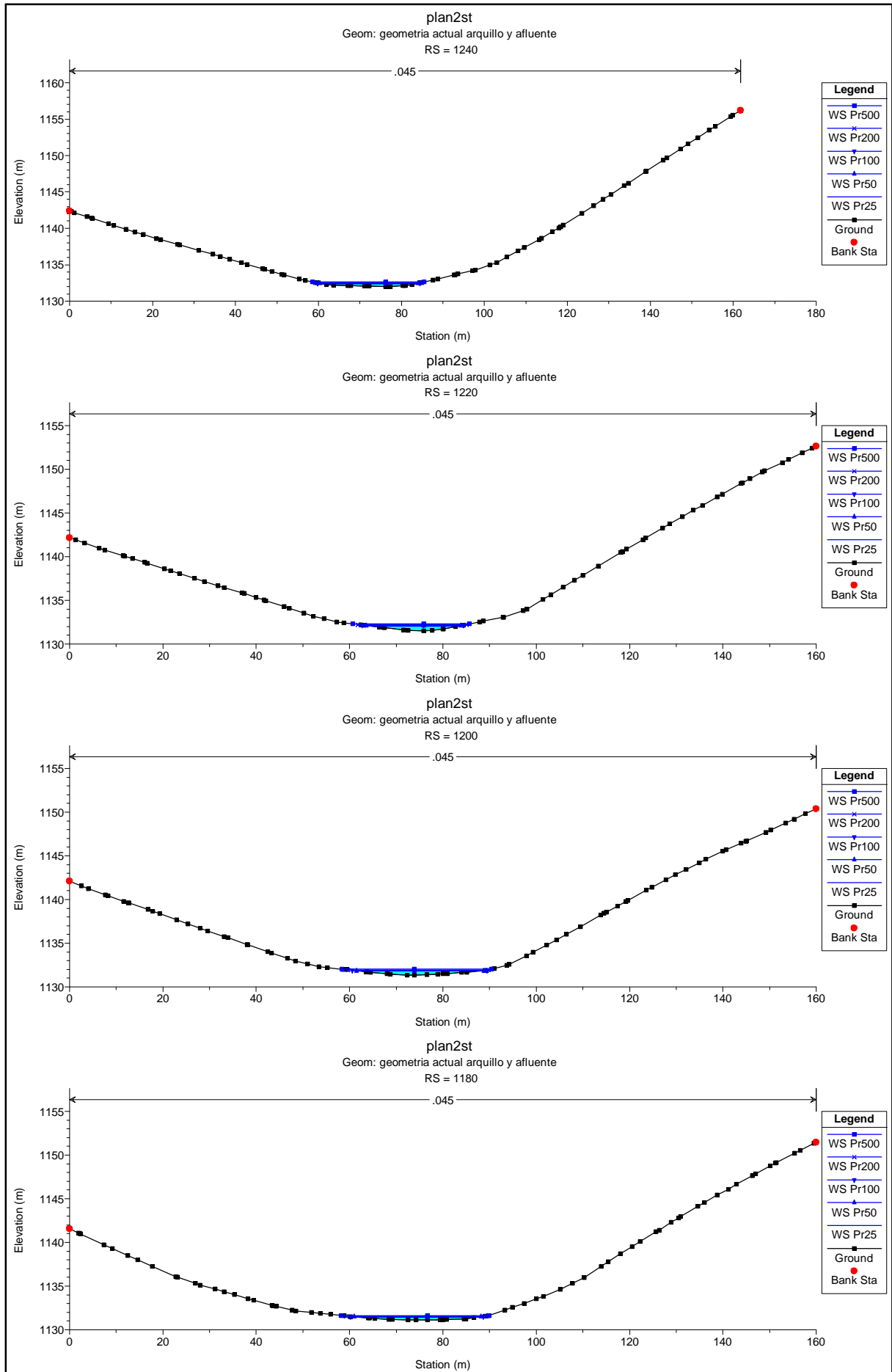


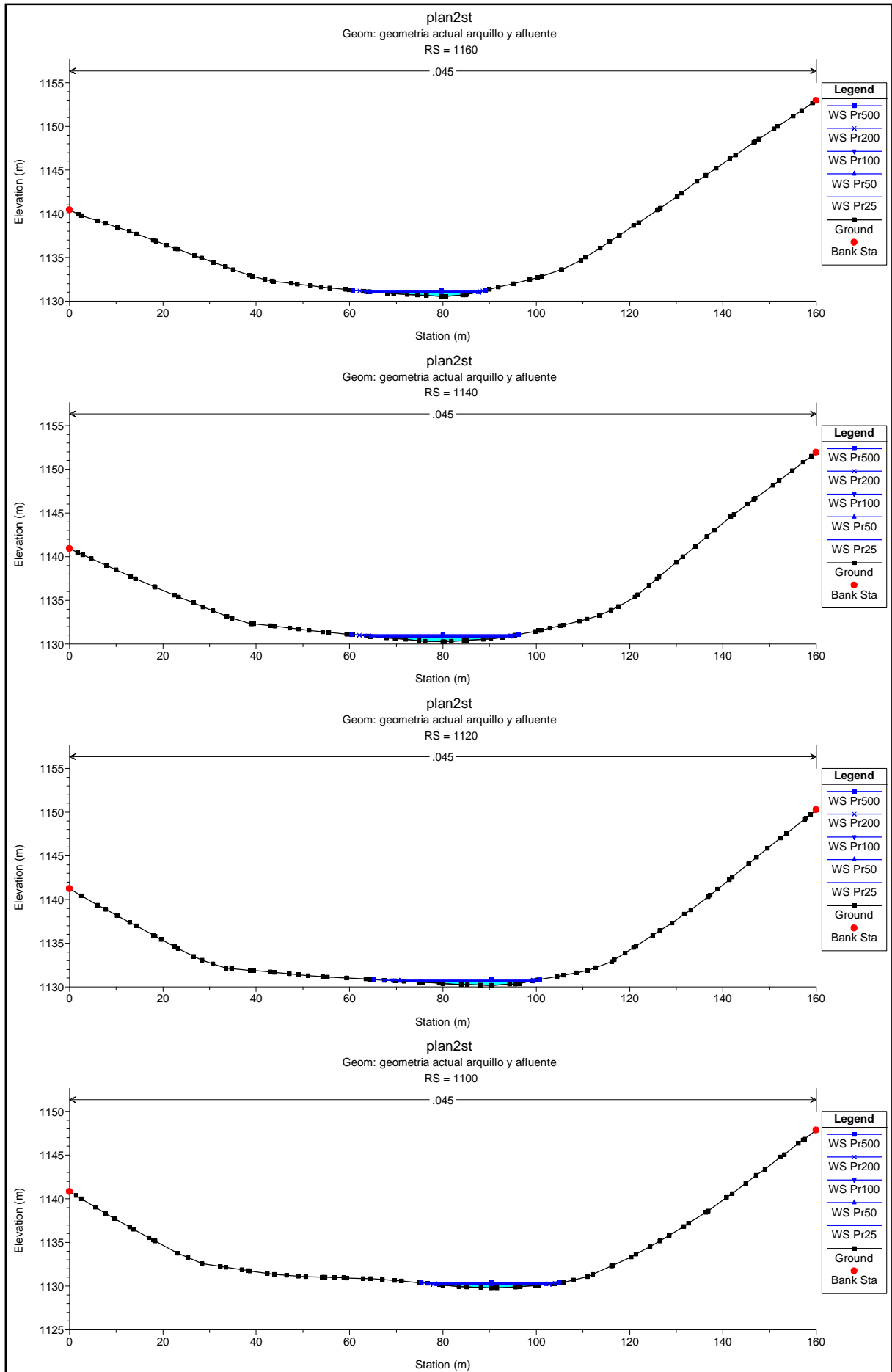


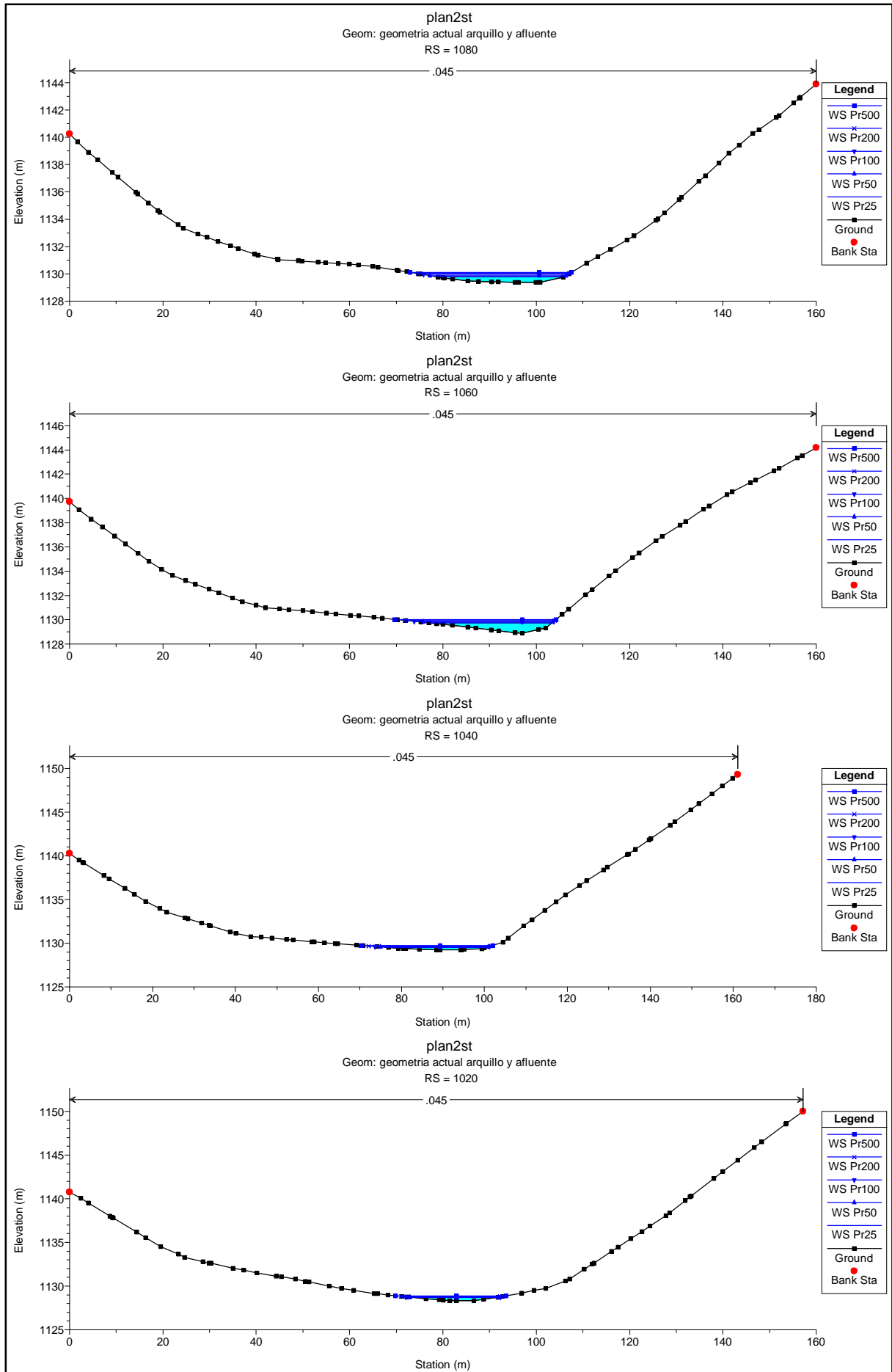


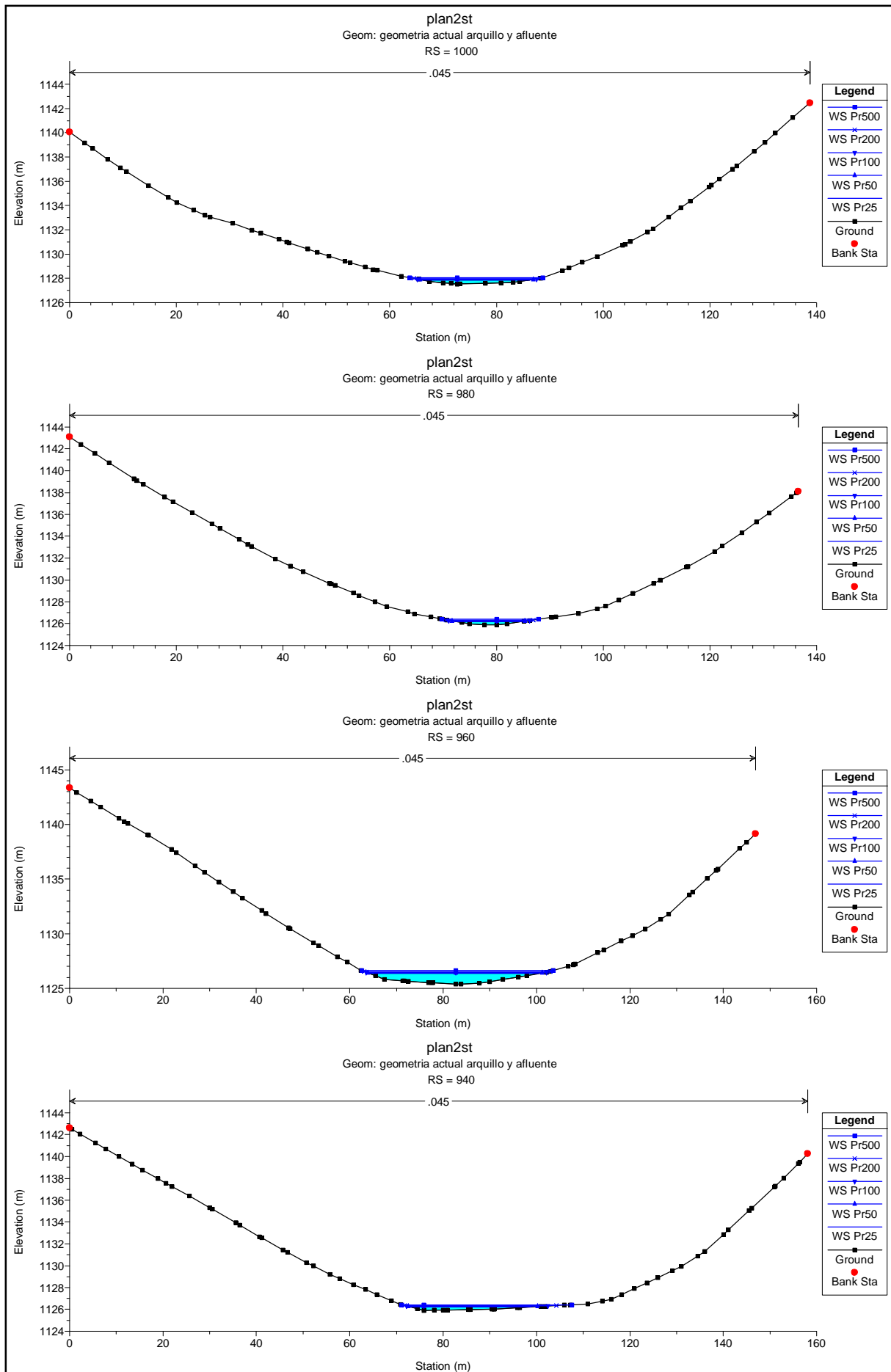


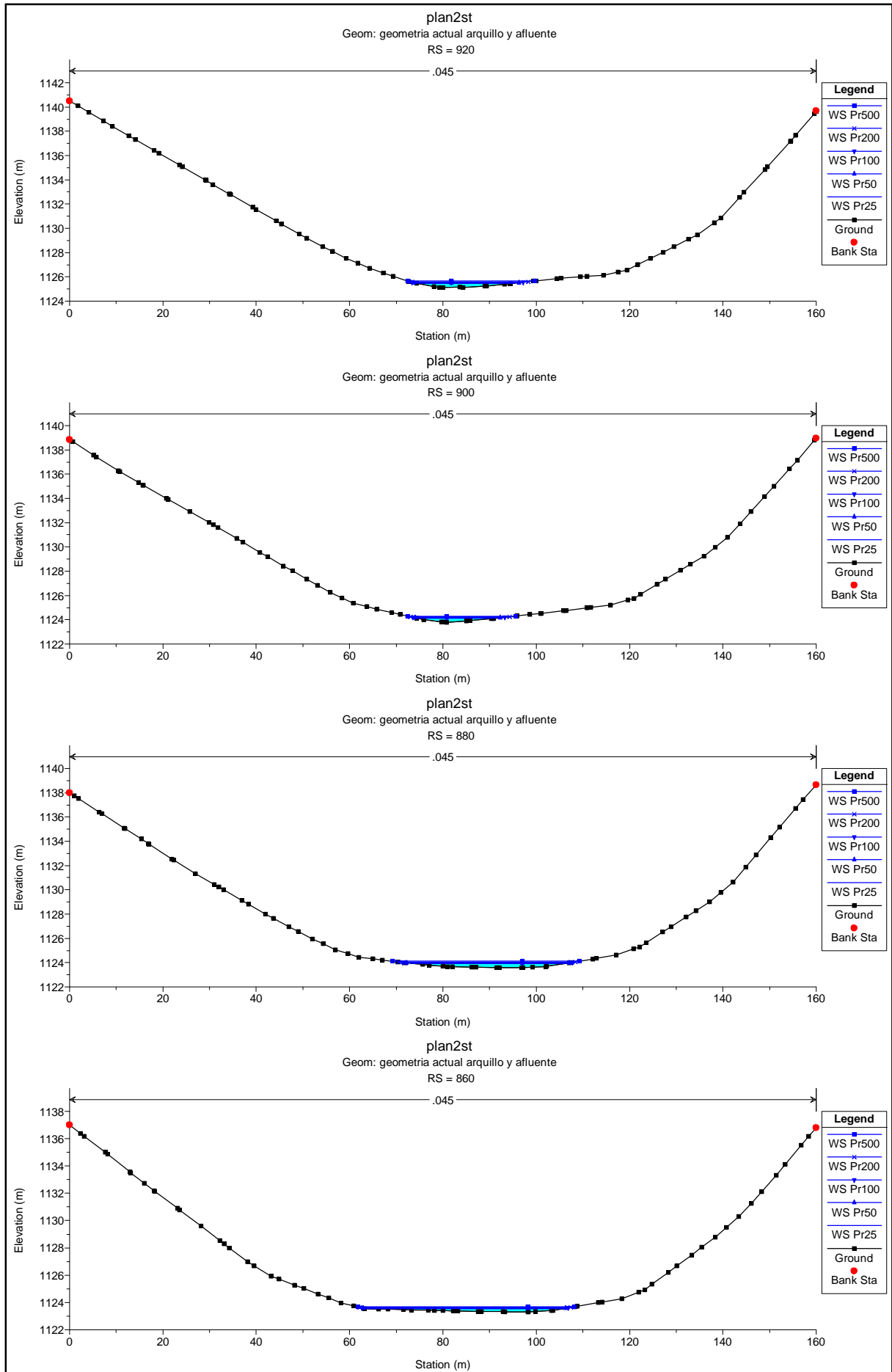


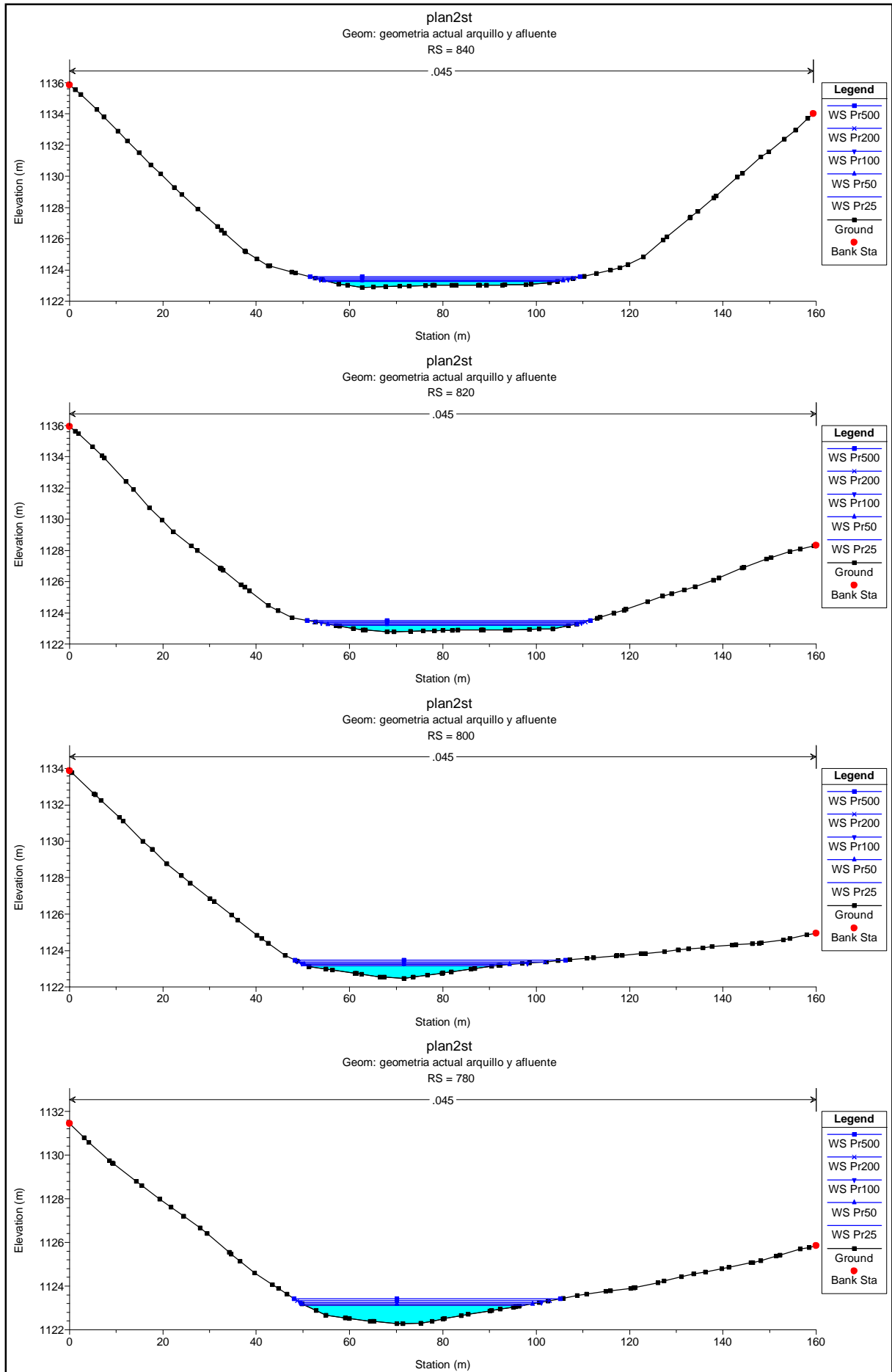


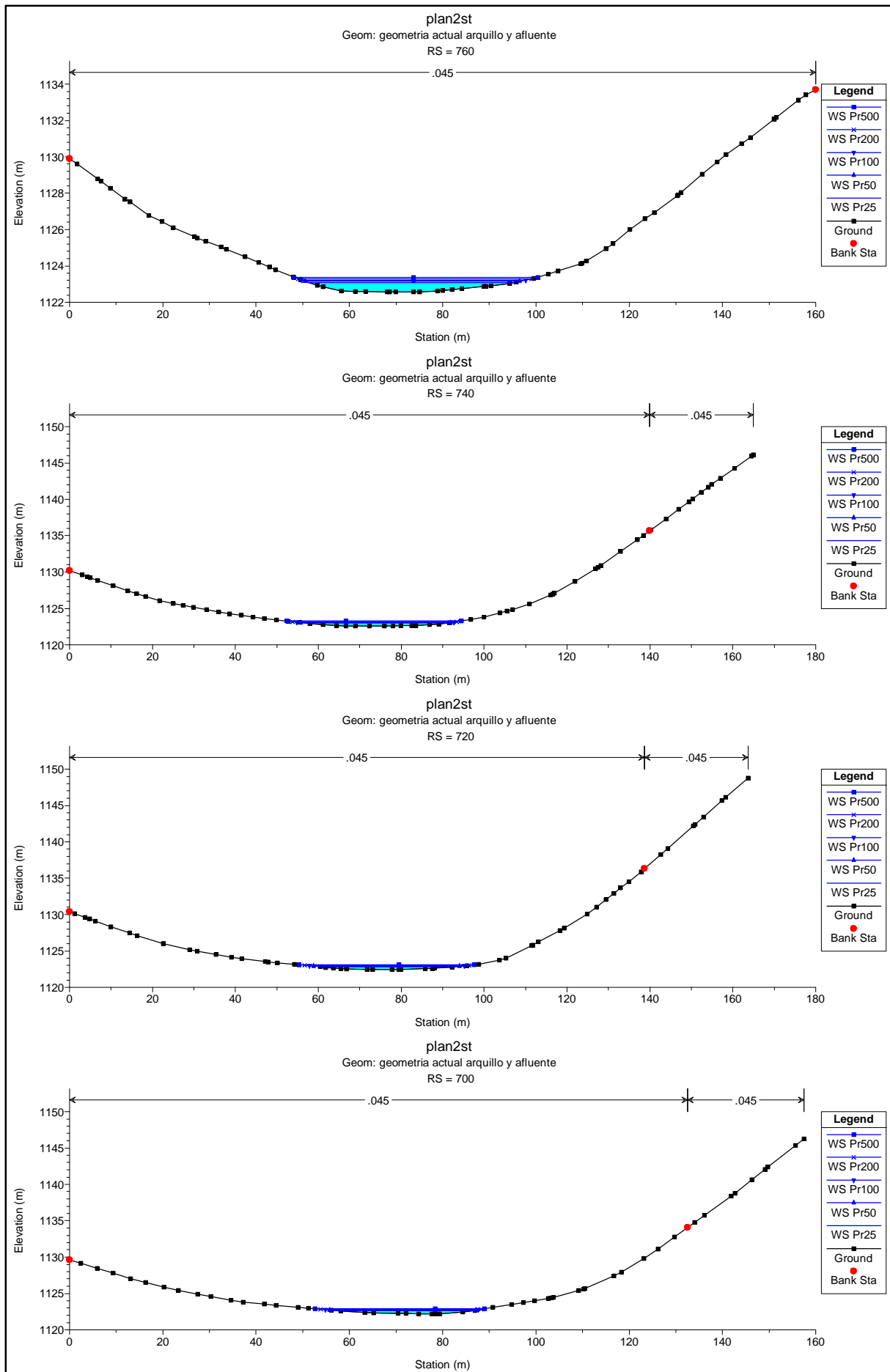


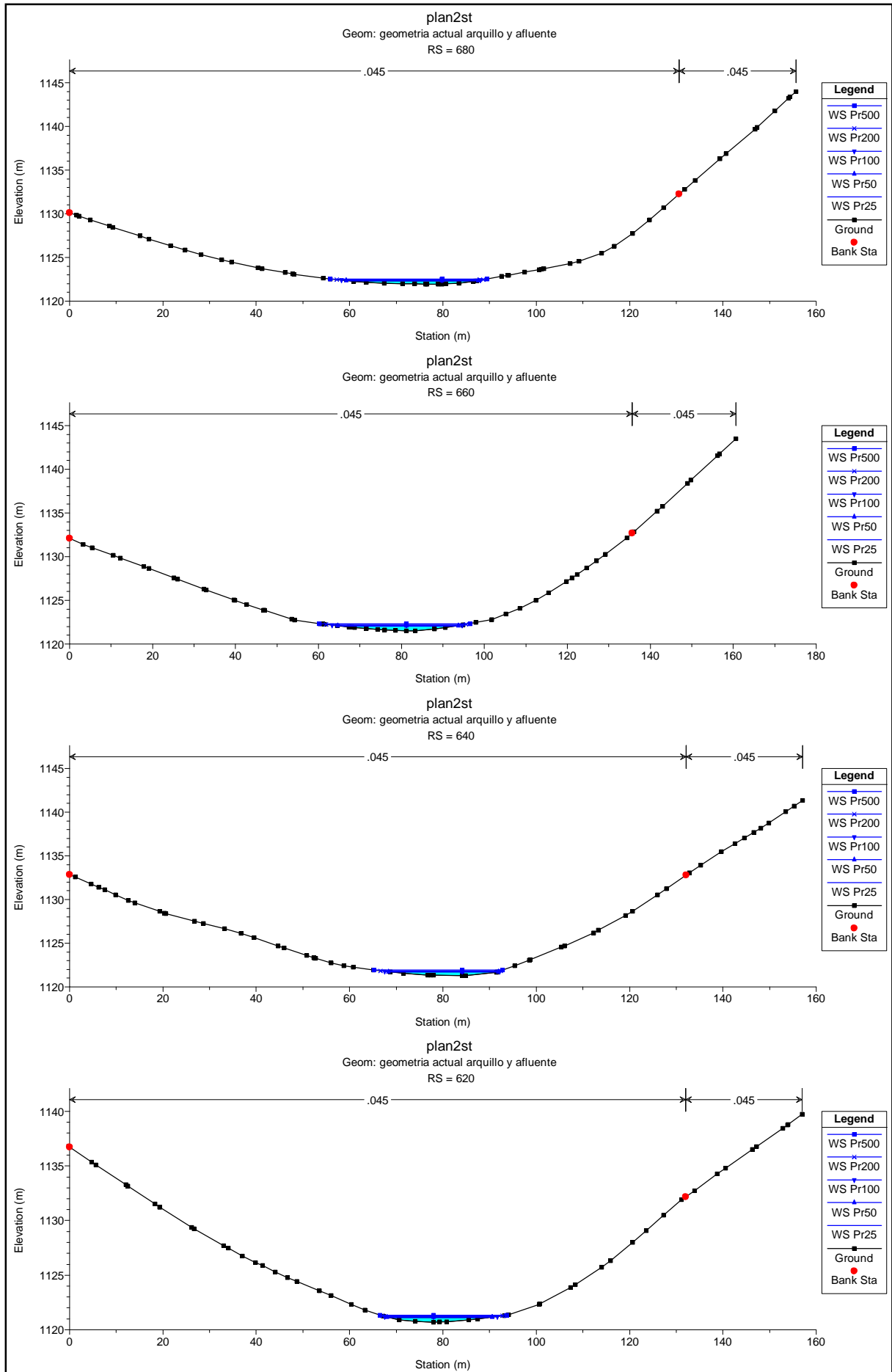


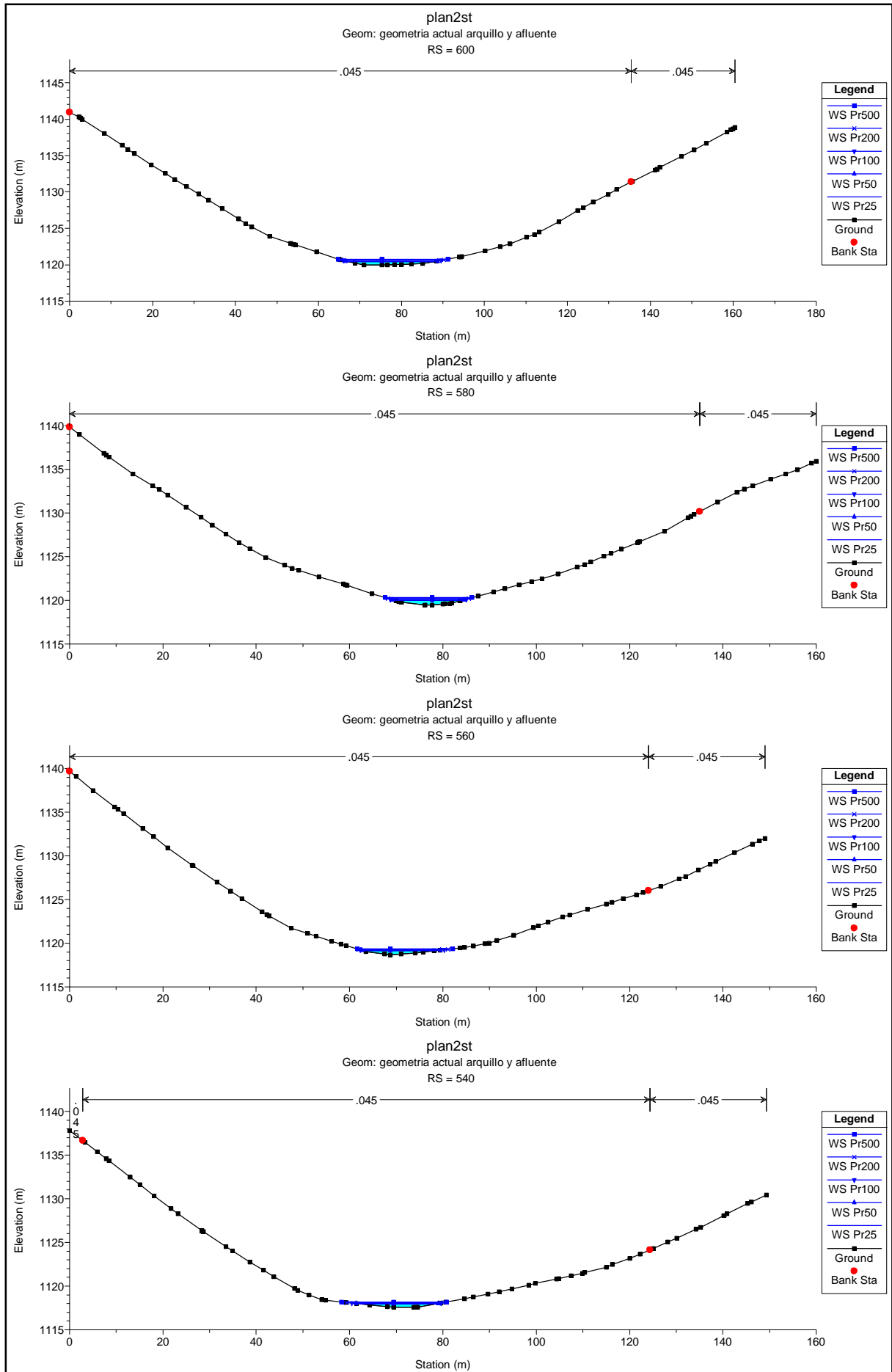


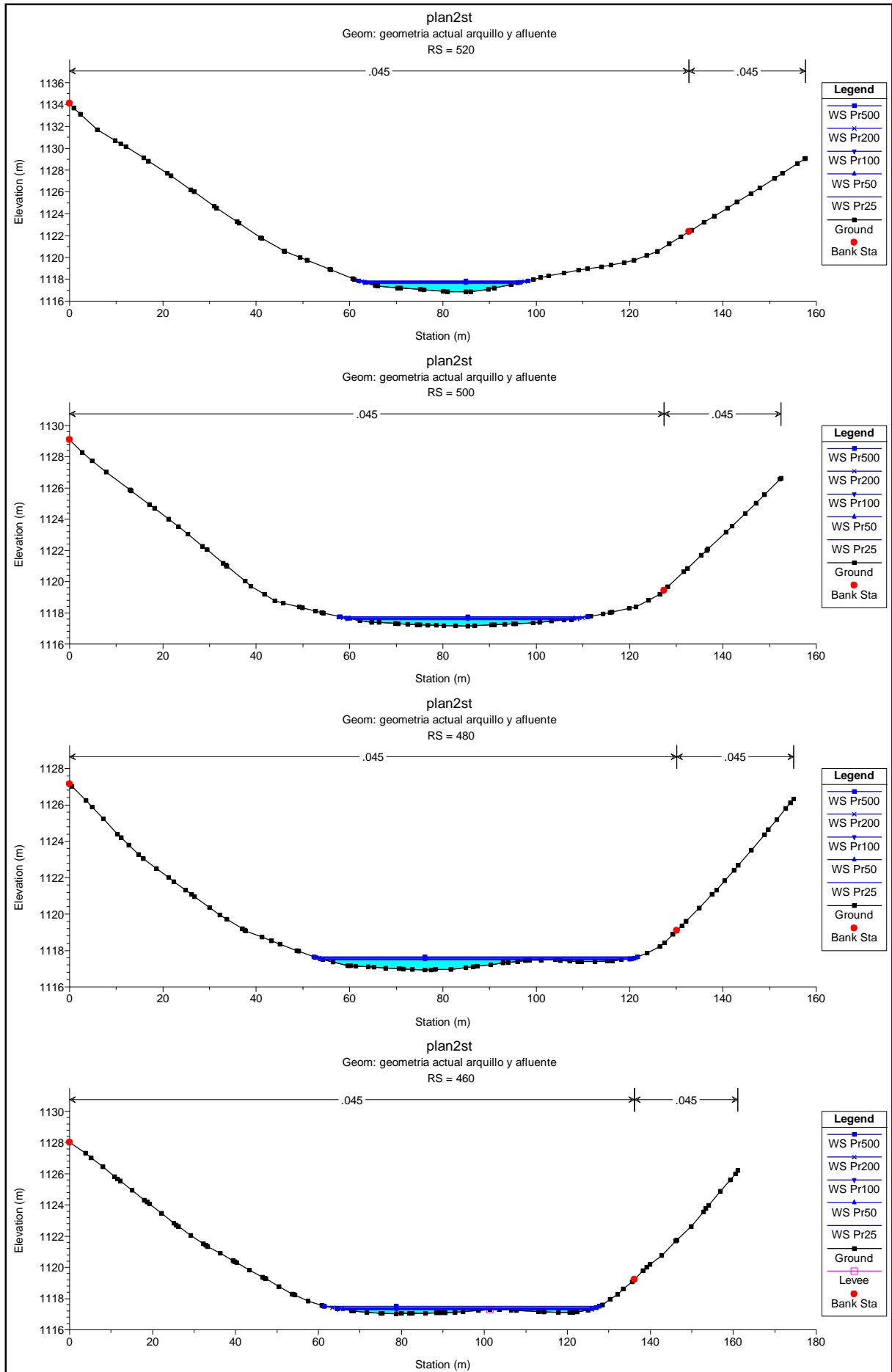


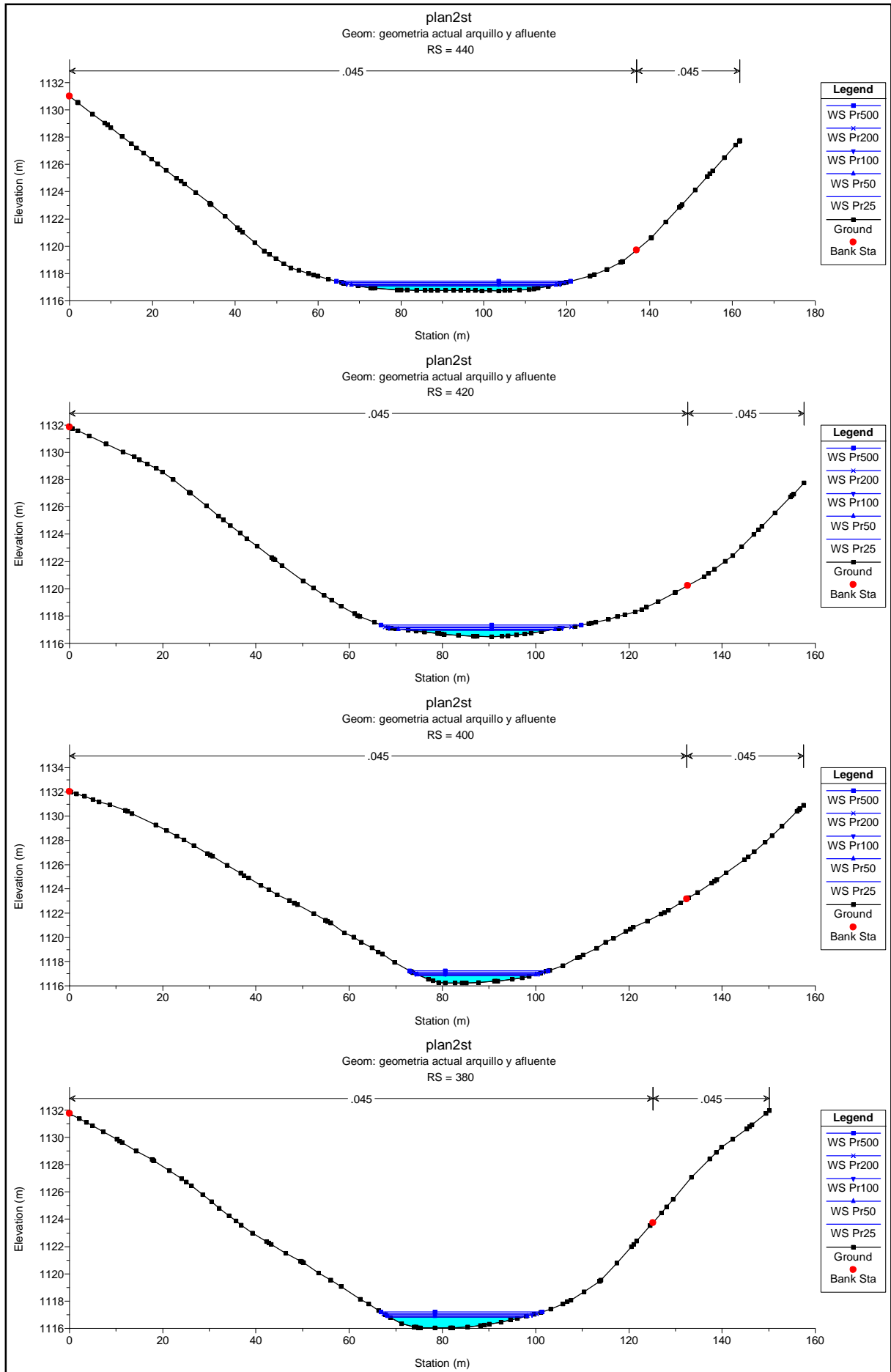


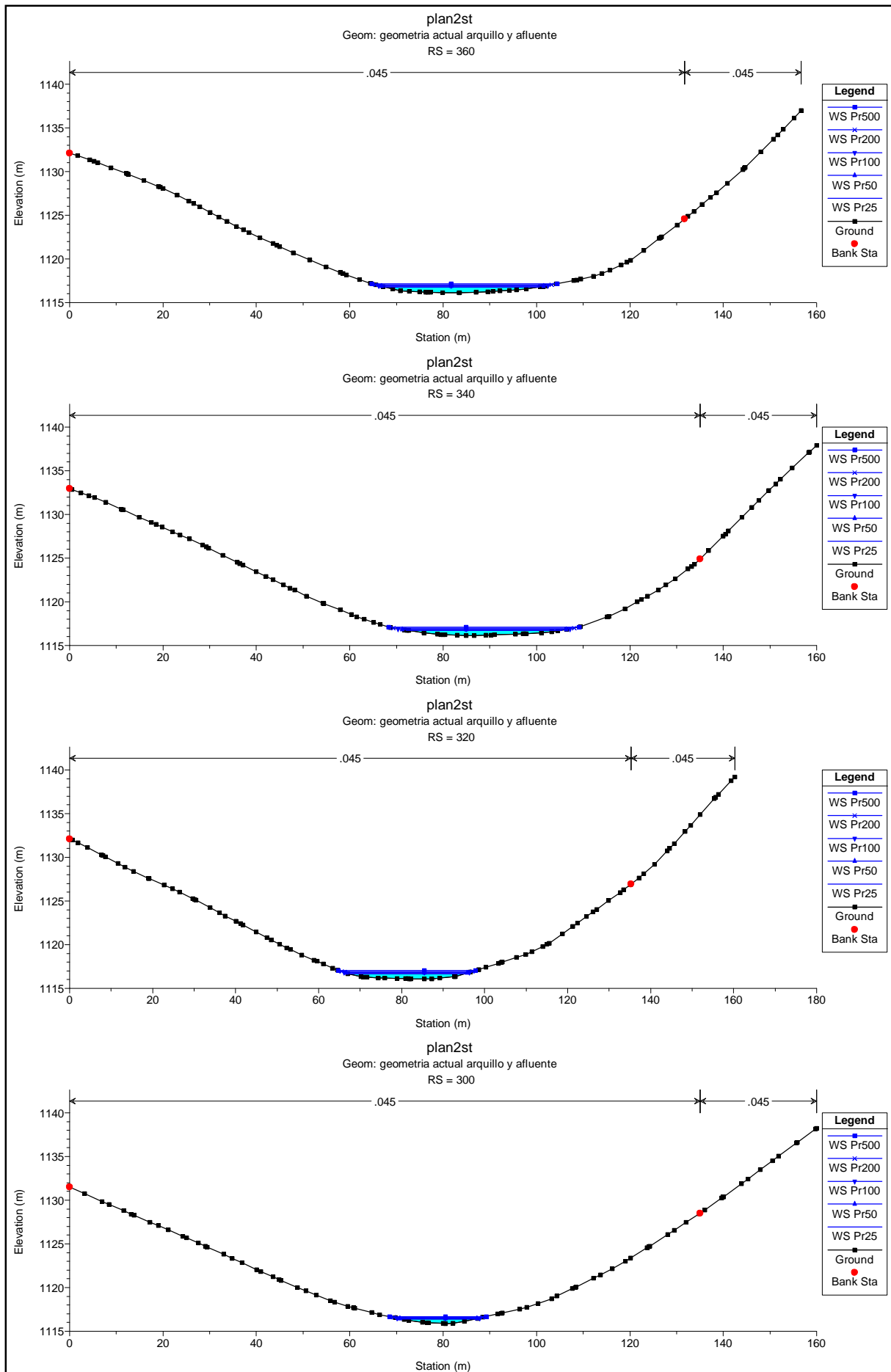


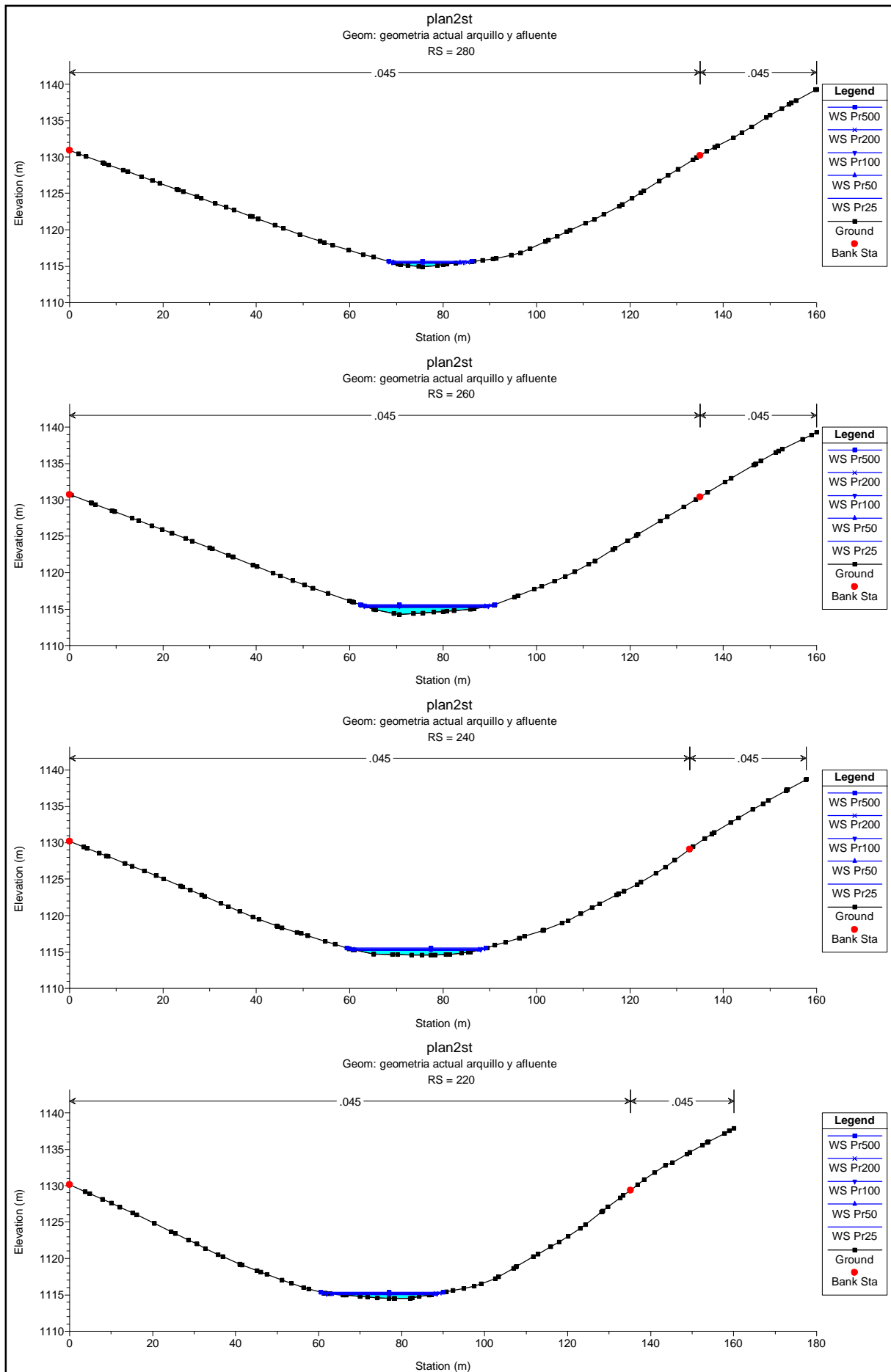


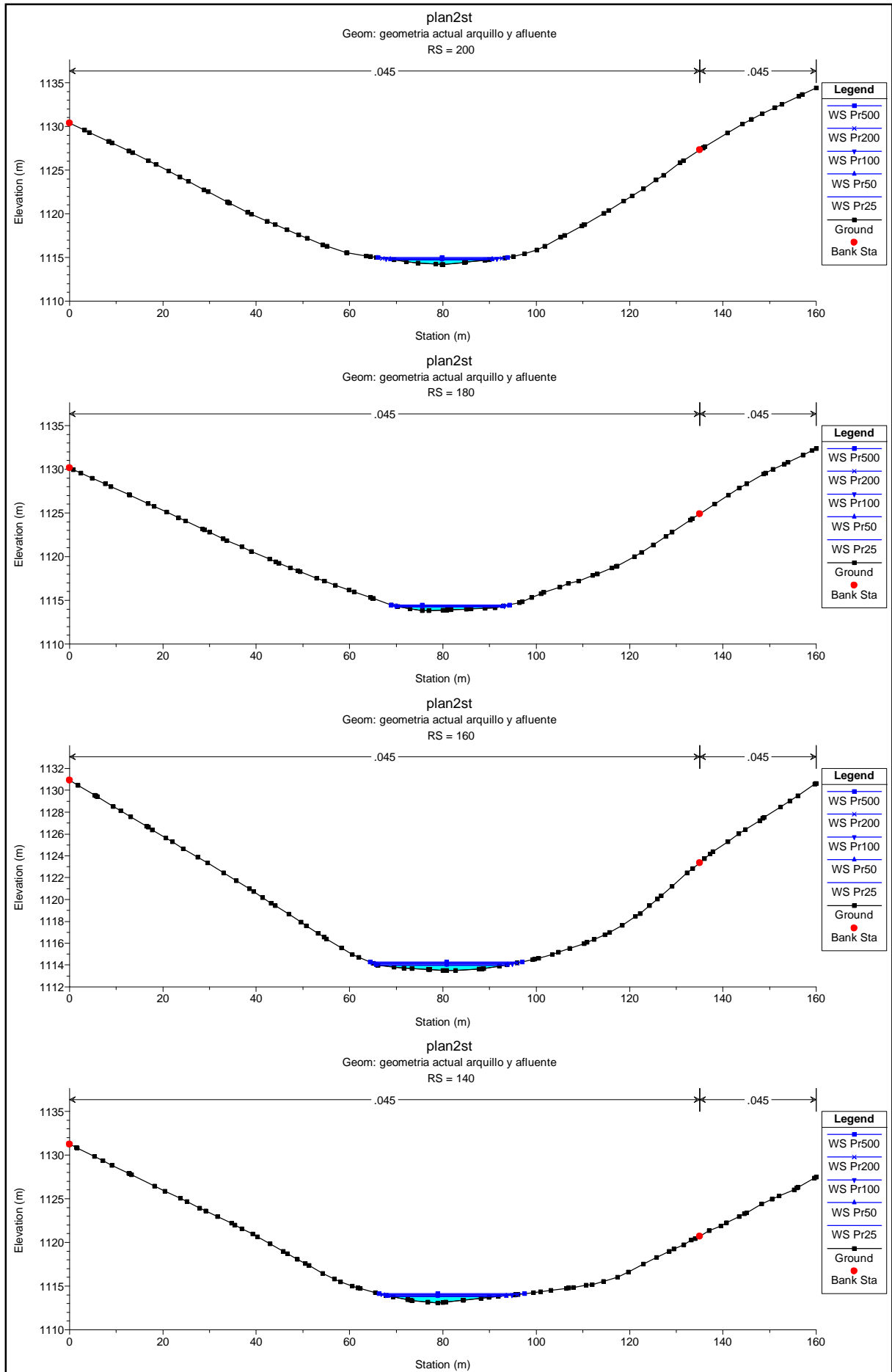


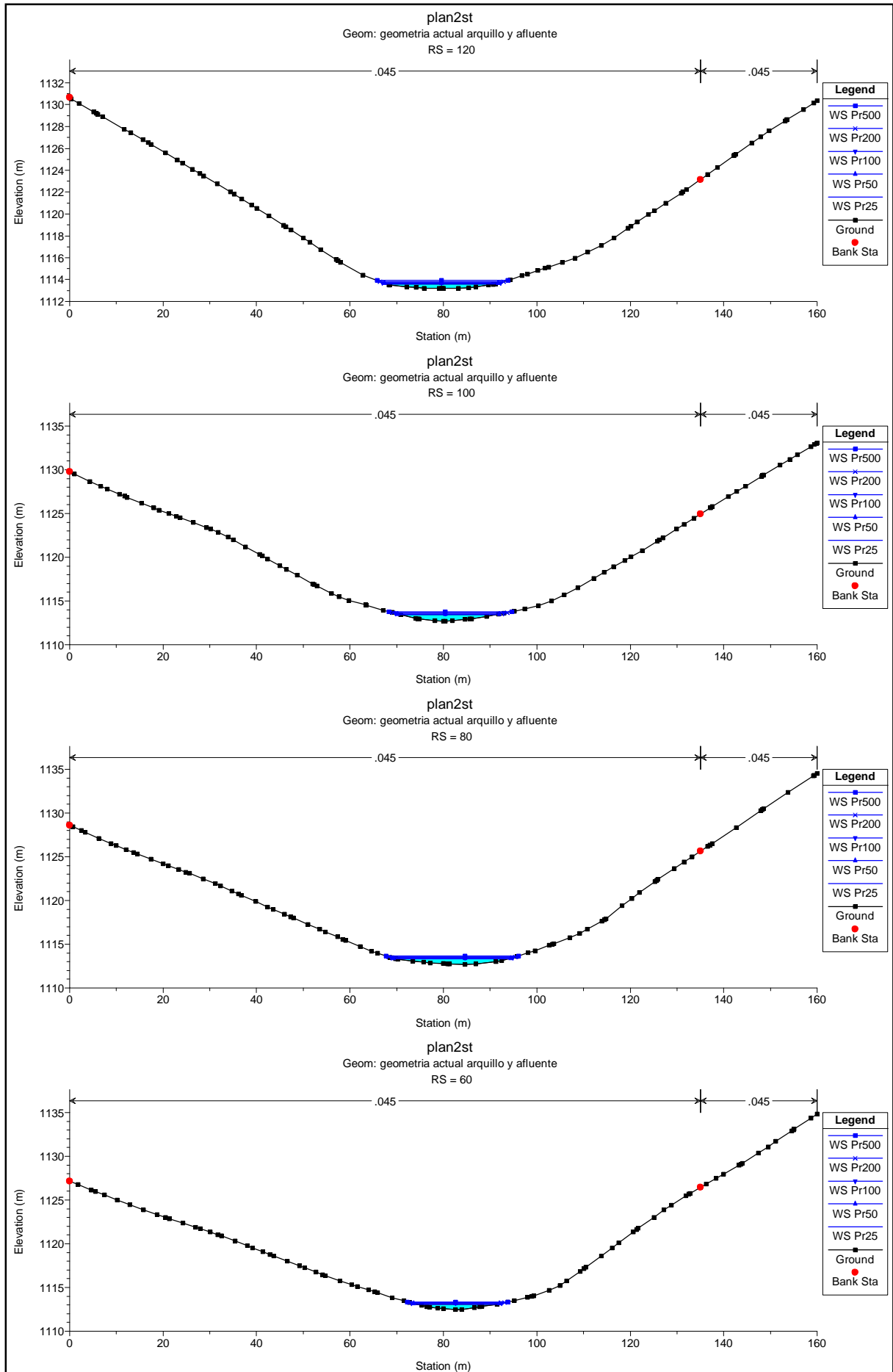


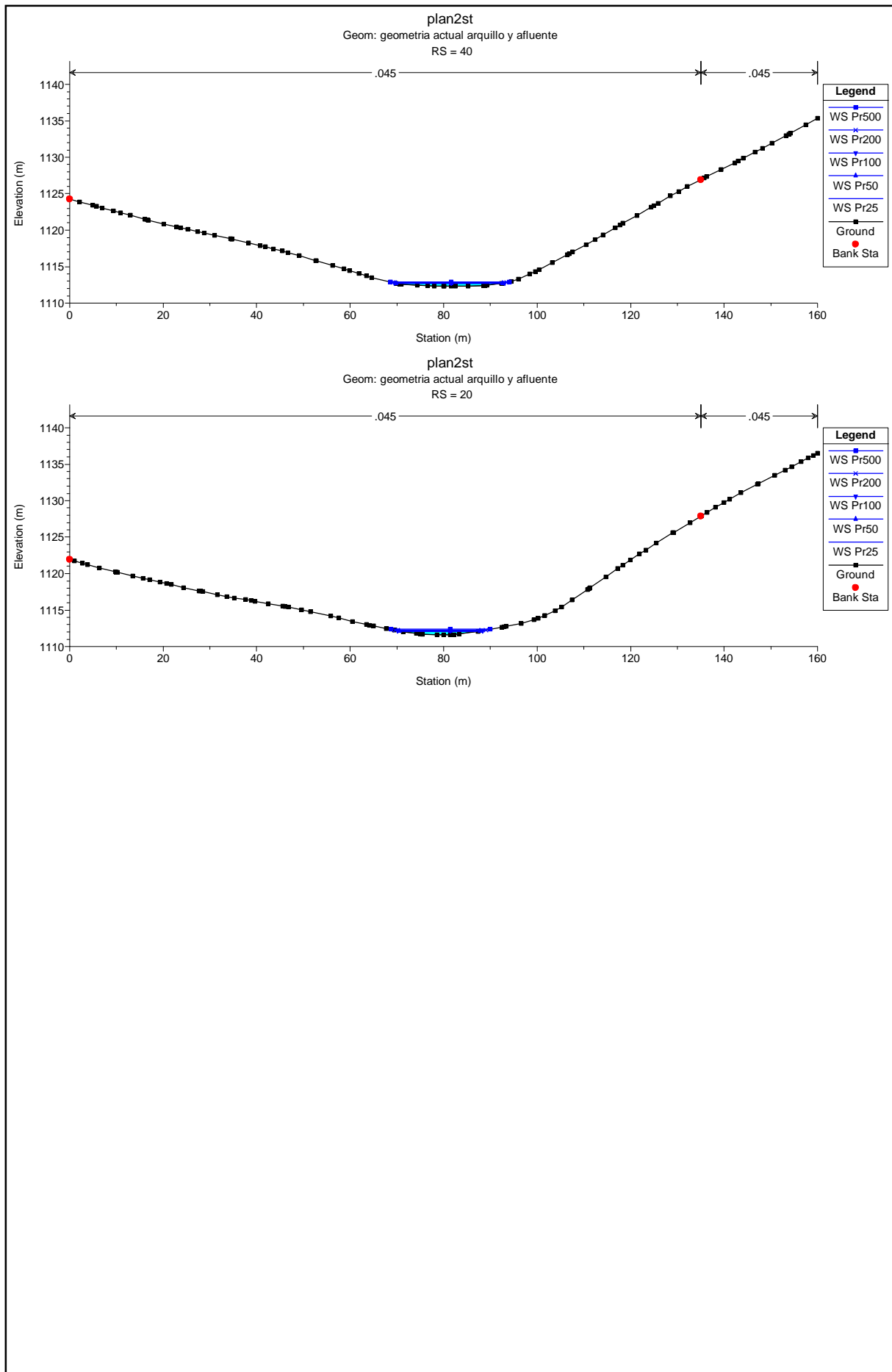












HEC-RAS Plan: pl2mx

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	penascosa	2300	Pr25	7.45	1152.77	1153.32	1153.03	1153.33	0.001561	0.43	17.35	50.69	0.23
arquilocamping	penascosa	2300	Pr50	9.50	1152.77	1153.36	1153.07	1153.37	0.001880	0.49	19.36	53.24	0.26
arquilocamping	penascosa	2300	Pr100	12.05	1152.77	1153.40	1153.11	1153.42	0.002302	0.55	21.86	58.76	0.29
arquilocamping	penascosa	2300	Pr200	15.00	1152.77	1153.45	1153.14	1153.47	0.002699	0.61	24.72	64.83	0.31
arquilocamping	penascosa	2300	Pr500	19.45	1152.77	1153.51	1153.20	1153.53	0.003229	0.68	28.61	72.39	0.35
arquilocamping	penascosa	2280	Pr25	7.45	1152.97	1153.22		1153.25	0.020488	0.83	8.96	67.07	0.73
arquilocamping	penascosa	2280	Pr50	9.50	1152.97	1153.24		1153.28	0.019738	0.90	10.59	68.73	0.73
arquilocamping	penascosa	2280	Pr100	12.05	1152.97	1153.27		1153.32	0.018158	0.95	12.67	70.78	0.72
arquilocamping	penascosa	2280	Pr200	15.00	1152.97	1153.29		1153.35	0.020889	1.08	13.95	72.02	0.78
arquilocamping	penascosa	2280	Pr500	19.45	1152.97	1153.33		1153.40	0.019301	1.15	16.94	74.71	0.77
arquilocamping	penascosa	2260	Pr25	7.45	1152.65	1152.95		1152.97	0.010128	0.65	11.55	75.23	0.52
arquilocamping	penascosa	2260	Pr50	9.50	1152.65	1152.97		1153.00	0.010667	0.72	13.23	76.78	0.55
arquilocamping	penascosa	2260	Pr100	12.05	1152.65	1152.99		1153.03	0.011575	0.81	14.97	78.24	0.58
arquilocamping	penascosa	2260	Pr200	15.00	1152.65	1153.04		1153.07	0.009324	0.82	18.41	81.05	0.54
arquilocamping	penascosa	2260	Pr500	19.45	1152.65	1153.06		1153.11	0.010740	0.95	20.78	82.93	0.59
arquilocamping	penascosa	2240	Pr25	7.45	1152.30	1152.66	1152.63	1152.69	0.020464	0.78	9.50	77.45	0.72
arquilocamping	penascosa	2240	Pr50	9.50	1152.30	1152.68		1152.72	0.018989	0.84	11.28	78.19	0.71
arquilocamping	penascosa	2240	Pr100	12.05	1152.30	1152.71		1152.75	0.016467	0.88	13.65	79.16	0.68
arquilocamping	penascosa	2240	Pr200	15.00	1152.30	1152.71	1152.70	1152.77	0.026997	1.12	13.41	79.06	0.87
arquilocamping	penascosa	2240	Pr500	19.45	1152.30	1152.76		1152.82	0.020042	1.13	17.27	80.62	0.78
arquilocamping	penascosa	2220	Pr25	7.45	1151.96	1152.34		1152.37	0.012669	0.76	9.82	58.76	0.59
arquilocamping	penascosa	2220	Pr50	9.50	1151.96	1152.38		1152.41	0.012671	0.77	12.28	71.44	0.60
arquilocamping	penascosa	2220	Pr100	12.05	1151.96	1152.40		1152.44	0.014758	0.85	14.11	79.23	0.65
arquilocamping	penascosa	2220	Pr200	15.00	1151.96	1152.48		1152.51	0.007405	0.75	20.08	82.17	0.48
arquilocamping	penascosa	2220	Pr500	19.45	1151.96	1152.49		1152.54	0.010382	0.91	21.26	82.75	0.58
arquilocamping	penascosa	2200	Pr25	7.45	1151.57	1152.31	1152.31	1152.32	0.001004	0.31	24.03	82.20	0.18
arquilocamping	penascosa	2200	Pr50	9.50	1151.57	1152.34	1152.31	1152.35	0.001167	0.36	26.66	82.87	0.20
arquilocamping	penascosa	2200	Pr100	12.05	1151.57	1152.34	1152.31	1152.35	0.001954	0.46	26.34	82.78	0.26
arquilocamping	penascosa	2200	Pr200	15.00	1151.57	1152.44	1152.31	1152.45	0.001208	0.43	35.06	84.97	0.21
arquilocamping	penascosa	2200	Pr500	19.45	1151.57	1152.42	1152.31	1152.44	0.002355	0.58	33.48	84.58	0.29
arquilocamping	penascosa	2180	Pr25	7.45	1151.65	1152.18	1152.09	1152.23	0.011463	0.98	7.60	28.67	0.61
arquilocamping	penascosa	2180	Pr50	9.50	1151.65	1152.24	1152.13	1152.29	0.010963	1.03	9.24	31.39	0.61
arquilocamping	penascosa	2180	Pr100	12.05	1151.65	1152.30	1152.18	1152.31	0.002161	0.50	24.06	71.21	0.28
arquilocamping	penascosa	2180	Pr200	15.00	1151.65	1152.23	1152.23	1152.37	0.029407	1.67	8.99	31.00	0.99

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	penascosa	2180	Pr500	19.45	1151.65	1152.36	1152.29	1152.39	0.003244	0.67	29.16	76.12	0.34
arquilocamping	penascosa	2160	Pr25	7.45	1151.44	1151.93	1151.84	1151.99	0.012685	1.07	6.97	24.94	0.65
arquilocamping	penascosa	2160	Pr50	9.50	1151.44	1151.98	1151.89	1152.05	0.013082	1.15	8.25	27.02	0.67
arquilocamping	penascosa	2160	Pr100	12.05	1151.44	1152.04	1151.94	1152.11	0.013297	1.23	9.77	29.24	0.68
arquilocamping	penascosa	2160	Pr200	15.00	1151.44	1152.09	1151.99	1152.18	0.013496	1.31	11.41	31.39	0.70
arquilocamping	penascosa	2160	Pr500	19.45	1151.44	1152.15	1152.06	1152.26	0.014591	1.45	13.46	34.02	0.73
arquilocamping	penascosa	2140	Pr25	7.45	1151.19	1151.53	1151.52	1151.62	0.028485	1.35	5.53	25.71	0.93
arquilocamping	penascosa	2140	Pr50	9.50	1151.19	1151.57	1151.55	1151.67	0.028365	1.44	6.58	27.49	0.94
arquilocamping	penascosa	2140	Pr100	12.05	1151.19	1151.61	1151.60	1151.73	0.028802	1.55	7.80	29.70	0.96
arquilocamping	penascosa	2140	Pr200	15.00	1151.19	1151.65	1151.65	1151.79	0.029186	1.64	9.14	32.14	0.98
arquilocamping	penascosa	2140	Pr500	19.45	1151.19	1151.74	1151.74	1151.86	0.028945	1.51	12.88	50.98	0.96
arquilocamping	penascosa	2120	Pr25	7.45	1150.76	1151.16	1151.09	1151.21	0.014719	1.03	7.25	30.76	0.68
arquilocamping	penascosa	2120	Pr50	9.50	1150.76	1151.20		1151.26	0.014512	1.09	8.73	33.70	0.68
arquilocamping	penascosa	2120	Pr100	12.05	1150.76	1151.25		1151.32	0.014487	1.16	10.41	36.58	0.69
arquilocamping	penascosa	2120	Pr200	15.00	1150.76	1151.30		1151.38	0.014373	1.22	12.26	39.38	0.70
arquilocamping	penascosa	2120	Pr500	19.45	1150.76	1151.36		1151.45	0.014553	1.32	14.74	42.65	0.72
arquilocamping	penascosa	2100	Pr25	7.45	1150.41	1150.74	1150.72	1150.82	0.027229	1.23	6.06	31.20	0.89
arquilocamping	penascosa	2100	Pr50	9.50	1150.41	1150.77	1150.76	1150.86	0.028508	1.34	7.10	33.35	0.93
arquilocamping	penascosa	2100	Pr100	12.05	1150.41	1150.81	1150.80	1150.92	0.029763	1.45	8.31	35.67	0.96
arquilocamping	penascosa	2100	Pr200	15.00	1150.41	1150.84	1150.84	1150.97	0.030464	1.56	9.63	37.78	0.99
arquilocamping	penascosa	2100	Pr500	19.45	1150.41	1150.89	1150.89	1151.04	0.030681	1.69	11.49	40.05	1.01
arquilocamping	penascosa	2080	Pr25	7.45	1149.85	1150.10	1150.10	1150.19	0.036114	1.33	5.60	31.71	1.01
arquilocamping	penascosa	2080	Pr50	9.50	1149.85	1150.14	1150.14	1150.24	0.034261	1.42	6.70	33.07	1.01
arquilocamping	penascosa	2080	Pr100	12.05	1149.85	1150.18	1150.18	1150.29	0.032792	1.51	7.96	34.46	1.01
arquilocamping	penascosa	2080	Pr200	15.00	1149.85	1150.21	1150.21	1150.35	0.031431	1.61	9.35	35.92	1.00
arquilocamping	penascosa	2080	Pr500	19.45	1149.85	1150.26	1150.27	1150.42	0.031303	1.74	11.15	37.72	1.02
arquilocamping	penascosa	2060	Pr25	7.45	1149.22	1149.71	1149.59	1149.74	0.007572	0.79	9.48	36.56	0.49
arquilocamping	penascosa	2060	Pr50	9.50	1149.22	1149.75	1149.62	1149.79	0.007761	0.85	11.14	38.75	0.51
arquilocamping	penascosa	2060	Pr100	12.05	1149.22	1149.80	1149.66	1149.85	0.007919	0.93	13.01	40.55	0.52
arquilocamping	penascosa	2060	Pr200	15.00	1149.22	1149.85	1149.71	1149.90	0.008050	1.00	15.00	42.18	0.54
arquilocamping	penascosa	2060	Pr500	19.45	1149.22	1149.91	1149.76	1149.97	0.008270	1.10	17.72	44.26	0.55
arquilocamping	penascosa	2040	Pr25	7.45	1149.16	1149.58		1149.61	0.005827	0.68	11.01	43.73	0.43
arquilocamping	penascosa	2040	Pr50	9.50	1149.16	1149.62		1149.65	0.006058	0.74	12.82	45.67	0.45

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	penascosa	2040	Pr100	12.05	1149.16	1149.66		1149.70	0.006550	0.82	14.70	47.73	0.47
arquilocamping	penascosa	2040	Pr200	15.00	1149.16	1149.71		1149.75	0.006786	0.89	16.90	50.05	0.49
arquilocamping	penascosa	2040	Pr500	19.45	1149.16	1149.77		1149.82	0.007054	0.97	19.97	52.97	0.51
arquilocamping	penascosa	2020	Pr25	7.45	1149.09	1149.29	1149.29	1149.36	0.038137	1.21	6.16	41.81	1.01
arquilocamping	penascosa	2020	Pr50	9.50	1149.09	1149.31	1149.31	1149.40	0.036945	1.30	7.31	43.54	1.01
arquilocamping	penascosa	2020	Pr100	12.05	1149.09	1149.35	1149.35	1149.44	0.034332	1.37	8.78	45.65	1.00
arquilocamping	penascosa	2020	Pr200	15.00	1149.09	1149.38	1149.38	1149.49	0.033554	1.46	10.26	47.68	1.01
arquilocamping	penascosa	2020	Pr500	19.45	1149.09	1149.42	1149.42	1149.55	0.032130	1.56	12.44	50.54	1.01
arquilocamping	penascosa	2000	Pr25	7.45	1148.66	1148.99	1148.90	1149.02	0.008520	0.74	10.02	45.86	0.51
arquilocamping	penascosa	2000	Pr50	9.50	1148.66	1149.03	1148.93	1149.06	0.008472	0.80	11.85	48.30	0.52
arquilocamping	penascosa	2000	Pr100	12.05	1148.66	1149.07	1148.96	1149.11	0.008328	0.86	14.01	50.72	0.52
arquilocamping	penascosa	2000	Pr200	15.00	1148.66	1149.12	1148.99	1149.16	0.008416	0.92	16.23	53.18	0.53
arquilocamping	penascosa	2000	Pr500	19.45	1148.66	1149.17	1149.04	1149.22	0.008610	1.01	19.33	56.70	0.55
arquilocamping	penascosa	1980	Pr25	7.45	1148.49	1148.82		1148.85	0.008765	0.75	9.96	46.20	0.51
arquilocamping	penascosa	1980	Pr50	9.50	1148.49	1148.85		1148.89	0.008971	0.81	11.70	48.82	0.53
arquilocamping	penascosa	1980	Pr100	12.05	1148.49	1148.89		1148.93	0.009242	0.88	13.68	51.63	0.55
arquilocamping	penascosa	1980	Pr200	15.00	1148.49	1148.93		1148.98	0.009496	0.95	15.82	54.62	0.56
arquilocamping	penascosa	1980	Pr500	19.45	1148.49	1148.98		1149.04	0.009854	1.04	18.69	57.69	0.58
arquilocamping	penascosa	1960	Pr25	7.45	1148.24	1148.54		1148.59	0.020577	1.00	7.48	42.79	0.76
arquilocamping	penascosa	1960	Pr50	9.50	1148.24	1148.57		1148.63	0.020076	1.06	8.96	45.84	0.77
arquilocamping	penascosa	1960	Pr100	12.05	1148.24	1148.61		1148.67	0.019450	1.13	10.65	48.28	0.77
arquilocamping	penascosa	1960	Pr200	15.00	1148.24	1148.65		1148.72	0.018704	1.20	12.55	50.88	0.77
arquilocamping	penascosa	1960	Pr500	19.45	1148.24	1148.70		1148.78	0.017592	1.28	15.23	53.39	0.76
arquilocamping	penascosa	1940	Pr25	7.45	1147.91	1148.28		1148.31	0.009481	0.78	9.61	44.75	0.53
arquilocamping	penascosa	1940	Pr50	9.50	1147.91	1148.32		1148.35	0.009582	0.85	11.16	45.60	0.55
arquilocamping	penascosa	1940	Pr100	12.05	1147.91	1148.36		1148.40	0.009670	0.93	12.95	46.55	0.56
arquilocamping	penascosa	1940	Pr200	15.00	1147.91	1148.40		1148.45	0.009683	1.01	14.88	47.53	0.57
arquilocamping	penascosa	1940	Pr500	19.45	1147.91	1148.45		1148.51	0.009835	1.11	17.50	48.82	0.59
arquilocamping	penascosa	1920	Pr25	7.45	1147.60	1147.89	1147.89	1147.97	0.037044	1.30	5.75	34.45	1.01
arquilocamping	penascosa	1920	Pr50	9.50	1147.60	1147.92	1147.92	1148.02	0.035151	1.38	6.90	36.38	1.01
arquilocamping	penascosa	1920	Pr100	12.05	1147.60	1147.96	1147.96	1148.07	0.033681	1.46	8.26	38.59	1.01
arquilocamping	penascosa	1920	Pr200	15.00	1147.60	1147.99	1147.99	1148.11	0.032993	1.55	9.67	40.61	1.01
arquilocamping	penascosa	1920	Pr500	19.45	1147.60	1148.04	1148.04	1148.18	0.031460	1.67	11.65	42.26	1.01

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	penascosa	1900	Pr25	7.45	1147.15	1147.48	1147.39	1147.52	0.010170	0.86	8.69	36.69	0.56
arquilocamping	penascosa	1900	Pr50	9.50	1147.15	1147.52	1147.43	1147.56	0.010166	0.93	10.21	38.12	0.57
arquilocamping	penascosa	1900	Pr100	12.05	1147.15	1147.57	1147.46	1147.62	0.009890	1.00	12.08	39.80	0.58
arquilocamping	penascosa	1900	Pr200	15.00	1147.15	1147.62	1147.50	1147.67	0.009625	1.06	14.10	41.38	0.58
arquilocamping	penascosa	1900	Pr500	19.45	1147.15	1147.68	1147.55	1147.75	0.009582	1.16	16.81	43.30	0.59
arquilocamping	penascosa	1880	Pr25	7.45	1146.75	1147.14		1147.22	0.023196	1.24	6.03	27.29	0.84
arquilocamping	penascosa	1880	Pr50	9.50	1146.75	1147.18		1147.27	0.022902	1.32	7.21	29.41	0.85
arquilocamping	penascosa	1880	Pr100	12.05	1146.75	1147.22	1147.19	1147.32	0.023085	1.42	8.51	31.34	0.87
arquilocamping	penascosa	1880	Pr200	15.00	1146.75	1147.27	1147.24	1147.38	0.023132	1.51	9.94	33.34	0.88
arquilocamping	penascosa	1880	Pr500	19.45	1146.75	1147.32	1147.29	1147.46	0.023268	1.63	11.96	36.00	0.90
arquilocamping	penascosa	1860	Pr25	7.45	1146.31	1146.71		1146.78	0.020243	1.18	6.32	27.76	0.79
arquilocamping	penascosa	1860	Pr50	9.50	1146.31	1146.75		1146.83	0.020480	1.26	7.53	30.08	0.81
arquilocamping	penascosa	1860	Pr100	12.05	1146.31	1146.80		1146.89	0.020161	1.34	9.02	32.69	0.81
arquilocamping	penascosa	1860	Pr200	15.00	1146.31	1146.85		1146.95	0.020051	1.41	10.61	35.25	0.82
arquilocamping	penascosa	1860	Pr500	19.45	1146.31	1146.91		1147.02	0.019951	1.51	12.86	38.39	0.83
arquilocamping	penascosa	1840	Pr25	7.45	1145.89	1146.30		1146.38	0.020088	1.22	6.10	25.21	0.79
arquilocamping	penascosa	1840	Pr50	9.50	1145.89	1146.35		1146.43	0.019391	1.29	7.36	27.31	0.79
arquilocamping	penascosa	1840	Pr100	12.05	1145.89	1146.40		1146.50	0.019316	1.37	8.77	29.57	0.80
arquilocamping	penascosa	1840	Pr200	15.00	1145.89	1146.45		1146.56	0.018936	1.44	10.39	32.00	0.81
arquilocamping	penascosa	1840	Pr500	19.45	1145.89	1146.52		1146.64	0.018429	1.53	12.71	35.14	0.81
arquilocamping	penascosa	1820	Pr25	7.45	1145.48	1145.86	1145.83	1145.94	0.024019	1.25	5.95	27.15	0.85
arquilocamping	penascosa	1820	Pr50	9.50	1145.48	1145.90	1145.87	1145.99	0.025200	1.36	6.96	28.92	0.89
arquilocamping	penascosa	1820	Pr100	12.05	1145.48	1145.94	1145.92	1146.05	0.026279	1.48	8.14	30.87	0.92
arquilocamping	penascosa	1820	Pr200	15.00	1145.48	1145.98	1145.96	1146.11	0.027291	1.59	9.41	32.85	0.95
arquilocamping	penascosa	1820	Pr500	19.45	1145.48	1146.03	1146.02	1146.18	0.028779	1.75	11.14	35.32	0.99
arquilocamping	penascosa	1800	Pr25	7.45	1144.95	1145.26	1145.26	1145.36	0.035436	1.37	5.42	28.78	1.01
arquilocamping	penascosa	1800	Pr50	9.50	1144.95	1145.30	1145.30	1145.41	0.033618	1.45	6.57	31.08	1.00
arquilocamping	penascosa	1800	Pr100	12.05	1144.95	1145.34	1145.34	1145.46	0.032656	1.53	7.88	33.47	1.01
arquilocamping	penascosa	1800	Pr200	15.00	1144.95	1145.38	1145.38	1145.52	0.031822	1.62	9.29	35.69	1.01
arquilocamping	penascosa	1800	Pr500	19.45	1144.95	1145.44	1145.44	1145.59	0.030532	1.71	11.35	38.68	1.01
arquilocamping	penascosa	1780	Pr25	7.45	1144.14	1144.76	1144.53	1144.78	0.003559	0.66	11.33	32.40	0.35
arquilocamping	penascosa	1780	Pr50	9.50	1144.14	1144.81	1144.57	1144.84	0.003978	0.73	13.03	34.68	0.38
arquilocamping	penascosa	1780	Pr100	12.05	1144.14	1144.87	1144.62	1144.90	0.004399	0.80	15.00	37.24	0.40
arquilocamping	penascosa	1780	Pr200	15.00	1144.14	1144.92	1144.67	1144.96	0.004789	0.88	17.08	39.53	0.43

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	penascosa	1780	Pr500	19.45	1144.14	1144.99	1144.74	1145.04	0.005278	0.97	19.99	42.68	0.45
arquilocamping	penascosa	1760	Pr25	7.45	1144.26	1144.60	1144.55	1144.65	0.016106	0.99	7.53	36.19	0.69
arquilocamping	penascosa	1760	Pr50	9.50	1144.26	1144.63	1144.58	1144.69	0.016375	1.07	8.85	38.13	0.71
arquilocamping	penascosa	1760	Pr100	12.05	1144.26	1144.67	1144.61	1144.74	0.017095	1.17	10.28	40.07	0.74
arquilocamping	penascosa	1760	Pr200	15.00	1144.26	1144.71	1144.65	1144.79	0.017332	1.26	11.90	42.05	0.76
arquilocamping	penascosa	1760	Pr500	19.45	1144.26	1144.76	1144.70	1144.86	0.018102	1.39	14.01	44.24	0.79
arquilocamping	penascosa	1740	Pr25	7.45	1143.84	1144.10	1144.10	1144.18	0.036309	1.29	5.78	34.36	1.00
arquilocamping	penascosa	1740	Pr50	9.50	1143.84	1144.13	1144.13	1144.22	0.035698	1.37	6.92	36.97	1.01
arquilocamping	penascosa	1740	Pr100	12.05	1143.84	1144.17	1144.17	1144.27	0.033575	1.44	8.39	40.01	1.00
arquilocamping	penascosa	1740	Pr200	15.00	1143.84	1144.20	1144.20	1144.32	0.033119	1.52	9.88	42.95	1.01
arquilocamping	penascosa	1740	Pr500	19.45	1143.84	1144.25	1144.25	1144.38	0.031818	1.61	12.05	46.33	1.01
arquilocamping	penascosa	1720	Pr25	7.45	1142.73	1143.34	1143.07	1143.35	0.002237	0.54	13.91	38.20	0.28
arquilocamping	penascosa	1720	Pr50	9.50	1142.73	1143.39	1143.11	1143.40	0.002539	0.60	15.80	40.16	0.31
arquilocamping	penascosa	1720	Pr100	12.05	1142.73	1143.44	1143.15	1143.46	0.002853	0.67	18.02	42.57	0.33
arquilocamping	penascosa	1720	Pr200	15.00	1142.73	1143.49	1143.20	1143.52	0.003128	0.73	20.43	44.97	0.35
arquilocamping	penascosa	1720	Pr500	19.45	1142.73	1143.57	1143.26	1143.60	0.003427	0.82	23.83	47.89	0.37
arquilocamping	penascosa	1700	Pr25	7.45	1142.67	1143.32		1143.33	0.000712	0.35	21.48	47.98	0.17
arquilocamping	penascosa	1700	Pr50	9.50	1142.67	1143.37		1143.37	0.000862	0.40	23.68	49.07	0.18
arquilocamping	penascosa	1700	Pr100	12.05	1142.67	1143.42		1143.43	0.001027	0.46	26.17	50.28	0.20
arquilocamping	penascosa	1700	Pr200	15.00	1142.67	1143.47		1143.48	0.001198	0.52	28.81	51.67	0.22
arquilocamping	penascosa	1700	Pr500	19.45	1142.67	1143.54		1143.55	0.001420	0.60	32.44	53.50	0.25
arquilocamping	penascosa	1680	Pr25	7.45	1142.99	1143.20	1143.20	1143.27	0.038556	1.22	6.09	41.07	1.01
arquilocamping	penascosa	1680	Pr50	9.50	1142.99	1143.23	1143.23	1143.31	0.036252	1.30	7.29	42.60	1.01
arquilocamping	penascosa	1680	Pr100	12.05	1142.99	1143.26	1143.26	1143.36	0.034910	1.40	8.60	43.91	1.01
arquilocamping	penascosa	1680	Pr200	15.00	1142.99	1143.29	1143.29	1143.40	0.033247	1.49	10.08	45.33	1.01
arquilocamping	penascosa	1680	Pr500	19.45	1142.99	1143.34	1143.34	1143.47	0.031701	1.60	12.15	47.22	1.01
arquilocamping	penascosa	1660	Pr25	7.45	1141.94	1142.32	1142.34	1142.47	0.041409	1.71	4.36	18.70	1.13
arquilocamping	penascosa	1660	Pr50	9.50	1141.94	1142.36	1142.39	1142.53	0.041243	1.83	5.20	20.21	1.15
arquilocamping	penascosa	1660	Pr100	12.05	1141.94	1142.41	1142.44	1142.60	0.040025	1.92	6.27	22.00	1.15
arquilocamping	penascosa	1660	Pr200	15.00	1141.94	1142.46	1142.50	1142.67	0.039344	2.02	7.43	23.95	1.16
arquilocamping	penascosa	1660	Pr500	19.45	1141.94	1142.53	1142.57	1142.76	0.037961	2.13	9.12	26.34	1.16
arquilocamping	penascosa	1640	Pr25	7.45	1140.62	1140.84	1140.93	1141.12	0.125697	2.32	3.21	20.06	1.85
arquilocamping	penascosa	1640	Pr50	9.50	1140.62	1140.87	1140.97	1141.19	0.123760	2.50	3.80	20.99	1.88

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	penascosa	1640	Pr100	12.05	1140.62	1140.90	1141.02	1141.28	0.124178	2.72	4.42	21.52	1.92
arquilocamping	penascosa	1640	Pr200	15.00	1140.62	1140.93	1141.07	1141.37	0.121460	2.93	5.13	22.04	1.94
arquilocamping	penascosa	1640	Pr500	19.45	1140.62	1140.98	1141.13	1141.50	0.118791	3.18	6.11	22.75	1.96
arquilocamping	penascosa	1620	Pr25	7.45	1139.73	1140.31	1140.21	1140.37	0.011270	1.08	6.92	22.38	0.62
arquilocamping	penascosa	1620	Pr50	9.50	1139.73	1140.37	1140.26	1140.44	0.011109	1.16	8.22	23.69	0.63
arquilocamping	penascosa	1620	Pr100	12.05	1139.73	1140.43	1140.31	1140.51	0.010956	1.24	9.75	25.14	0.63
arquilocamping	penascosa	1620	Pr200	15.00	1139.73	1140.50	1140.37	1140.59	0.010909	1.32	11.39	26.62	0.64
arquilocamping	penascosa	1620	Pr500	19.45	1139.73	1140.58	1140.44	1140.68	0.010943	1.42	13.70	28.66	0.66
arquilocamping	penascosa	1600	Pr25	7.45	1139.48	1140.01		1140.09	0.017902	1.30	5.75	19.93	0.77
arquilocamping	penascosa	1600	Pr50	9.50	1139.48	1140.06		1140.16	0.018488	1.40	6.80	21.56	0.79
arquilocamping	penascosa	1600	Pr100	12.05	1139.48	1140.11		1140.23	0.019004	1.50	8.01	23.23	0.82
arquilocamping	penascosa	1600	Pr200	15.00	1139.48	1140.17		1140.30	0.019410	1.61	9.34	24.94	0.84
arquilocamping	penascosa	1600	Pr500	19.45	1139.48	1140.24	1140.19	1140.39	0.019784	1.73	11.23	27.19	0.86
arquilocamping	penascosa	1580	Pr25	7.45	1139.07	1139.49	1139.49	1139.61	0.032623	1.59	4.70	18.90	1.02
arquilocamping	penascosa	1580	Pr50	9.50	1139.07	1139.53	1139.53	1139.68	0.031261	1.68	5.65	20.14	1.01
arquilocamping	penascosa	1580	Pr100	12.05	1139.07	1139.59	1139.59	1139.75	0.029996	1.78	6.77	21.52	1.01
arquilocamping	penascosa	1580	Pr200	15.00	1139.07	1139.64	1139.64	1139.82	0.028978	1.87	8.01	22.94	1.01
arquilocamping	penascosa	1580	Pr500	19.45	1139.07	1139.72	1139.72	1139.92	0.027836	1.99	9.78	24.84	1.01
arquilocamping	penascosa	1560	Pr25	7.45	1138.59	1138.89	1138.85	1138.96	0.021519	1.22	6.10	26.59	0.81
arquilocamping	penascosa	1560	Pr50	9.50	1138.59	1138.92	1138.89	1139.01	0.022728	1.35	7.03	27.40	0.85
arquilocamping	penascosa	1560	Pr100	12.05	1138.59	1138.96	1138.94	1139.07	0.024568	1.50	8.02	28.25	0.90
arquilocamping	penascosa	1560	Pr200	15.00	1138.59	1138.95	1138.98	1139.14	0.041235	1.92	7.81	28.07	1.16
arquilocamping	penascosa	1560	Pr500	19.45	1138.59	1138.99	1139.04	1139.23	0.043808	2.14	9.10	29.16	1.22
arquilocamping	penascosa	1540	Pr25	7.45	1138.07	1138.32	1138.32	1138.41	0.036614	1.31	5.68	33.09	1.01
arquilocamping	penascosa	1540	Pr50	9.50	1138.07	1138.35	1138.35	1138.45	0.035104	1.40	6.77	34.58	1.01
arquilocamping	penascosa	1540	Pr100	12.05	1138.07	1138.39	1138.39	1138.50	0.033550	1.49	8.07	36.26	1.01
arquilocamping	penascosa	1540	Pr200	15.00	1138.07	1138.43	1138.43	1138.56	0.032011	1.58	9.50	37.91	1.01
arquilocamping	penascosa	1540	Pr500	19.45	1138.07	1138.48	1138.48	1138.63	0.030358	1.70	11.45	39.40	1.01
arquilocamping	penascosa	1520	Pr25	7.45	1137.22	1137.62	1137.57	1137.68	0.018444	1.09	6.83	31.38	0.75
arquilocamping	penascosa	1520	Pr50	9.50	1137.22	1137.66	1137.61	1137.73	0.019182	1.18	8.05	33.89	0.77
arquilocamping	penascosa	1520	Pr100	12.05	1137.22	1137.69	1137.65	1137.78	0.020130	1.28	9.43	36.51	0.80
arquilocamping	penascosa	1520	Pr200	15.00	1137.22	1137.73	1137.69	1137.83	0.021145	1.38	10.85	38.78	0.83
arquilocamping	penascosa	1520	Pr500	19.45	1137.22	1137.71	1137.75	1137.90	0.043456	1.93	10.10	37.68	1.19

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	penascosa	1500	Pr25	7.45	1136.84	1137.09	1137.09	1137.17	0.036252	1.29	5.79	34.52	1.00
arquilocamping	penascosa	1500	Pr50	9.50	1136.84	1137.12	1137.12	1137.22	0.035021	1.38	6.90	36.18	1.01
arquilocamping	penascosa	1500	Pr100	12.05	1136.84	1137.16	1137.16	1137.27	0.033354	1.46	8.24	38.09	1.00
arquilocamping	penascosa	1500	Pr200	15.00	1136.84	1137.19	1137.19	1137.32	0.031762	1.55	9.68	39.53	1.00
arquilocamping	penascosa	1500	Pr500	19.45	1136.84	1137.24	1137.24	1137.39	0.030654	1.67	11.62	41.20	1.01
arquilocamping	penascosa	1480	Pr25	7.45	1136.41	1136.76	1136.67	1136.79	0.009222	0.80	9.31	40.50	0.53
arquilocamping	penascosa	1480	Pr50	9.50	1136.41	1136.80	1136.70	1136.83	0.009101	0.87	10.97	42.05	0.54
arquilocamping	penascosa	1480	Pr100	12.05	1136.41	1136.84	1136.73	1136.89	0.008999	0.93	12.91	43.77	0.55
arquilocamping	penascosa	1480	Pr200	15.00	1136.41	1136.89	1136.77	1136.94	0.008986	1.00	14.93	45.28	0.56
arquilocamping	penascosa	1480	Pr500	19.45	1136.41	1136.95	1136.81	1137.01	0.008921	1.10	17.71	46.74	0.57
arquilocamping	penascosa	1460	Pr25	7.45	1136.15	1136.43	1136.41	1136.50	0.025353	1.13	6.61	36.75	0.85
arquilocamping	penascosa	1460	Pr50	9.50	1136.15	1136.46	1136.44	1136.54	0.026579	1.24	7.64	37.95	0.89
arquilocamping	penascosa	1460	Pr100	12.05	1136.15	1136.49	1136.48	1136.59	0.027919	1.37	8.78	39.02	0.92
arquilocamping	penascosa	1460	Pr200	15.00	1136.15	1136.52	1136.51	1136.64	0.028752	1.49	10.04	40.18	0.95
arquilocamping	penascosa	1460	Pr500	19.45	1136.15	1136.56	1136.56	1136.70	0.030200	1.66	11.72	41.63	1.00
arquilocamping	penascosa	1440	Pr25	7.45	1135.59	1135.80	1135.80	1135.89	0.037248	1.27	5.87	36.50	1.01
arquilocamping	penascosa	1440	Pr50	9.50	1135.59	1135.84	1135.84	1135.93	0.035271	1.35	7.02	37.97	1.01
arquilocamping	penascosa	1440	Pr100	12.05	1135.59	1135.87	1135.87	1135.98	0.033460	1.44	8.34	39.37	1.00
arquilocamping	penascosa	1440	Pr200	15.00	1135.59	1135.90	1135.90	1136.03	0.032582	1.54	9.71	40.63	1.01
arquilocamping	penascosa	1440	Pr500	19.45	1135.59	1135.95	1135.95	1136.09	0.031089	1.66	11.72	42.45	1.01
arquilocamping	penascosa	1420	Pr25	7.45	1134.65	1134.91	1134.93	1135.02	0.050579	1.51	4.95	29.93	1.18
arquilocamping	penascosa	1420	Pr50	9.50	1134.65	1134.93	1134.96	1135.07	0.052790	1.65	5.76	31.41	1.23
arquilocamping	penascosa	1420	Pr100	12.05	1134.65	1134.96	1135.00	1135.13	0.055293	1.80	6.69	33.00	1.28
arquilocamping	penascosa	1420	Pr200	15.00	1134.65	1134.99	1135.04	1135.18	0.055671	1.93	7.77	34.78	1.30
arquilocamping	penascosa	1420	Pr500	19.45	1134.65	1135.03	1135.09	1135.26	0.057195	2.11	9.21	36.75	1.35
arquilocamping	penascosa	1400	Pr25	7.45	1133.95	1134.39	1134.20	1134.41	0.003885	0.66	11.35	34.78	0.37
arquilocamping	penascosa	1400	Pr50	9.50	1133.95	1134.44	1134.24	1134.47	0.003998	0.72	13.26	36.38	0.38
arquilocamping	penascosa	1400	Pr100	12.05	1133.95	1134.50	1134.28	1134.53	0.004151	0.78	15.39	38.03	0.39
arquilocamping	penascosa	1400	Pr200	15.00	1133.95	1134.56	1134.32	1134.60	0.004303	0.85	17.67	39.71	0.41
arquilocamping	penascosa	1400	Pr500	19.45	1133.95	1134.64	1134.38	1134.68	0.004517	0.93	20.80	41.97	0.42
arquilocamping	penascosa	1380	Pr25	7.45	1133.81	1134.36		1134.37	0.001118	0.41	18.04	43.51	0.20
arquilocamping	penascosa	1380	Pr50	9.50	1133.81	1134.41		1134.42	0.001287	0.47	20.29	45.07	0.22
arquilocamping	penascosa	1380	Pr100	12.05	1133.81	1134.47		1134.48	0.001475	0.53	22.78	46.65	0.24
arquilocamping	penascosa	1380	Pr200	15.00	1133.81	1134.52		1134.54	0.001652	0.59	25.43	48.16	0.26

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	penascosa	1380	Pr500	19.45	1133.81	1134.60		1134.62	0.001884	0.67	29.04	50.15	0.28
arquilocamping	penascosa	1360	Pr25	7.45	1133.89	1134.32		1134.34	0.002584	0.53	14.07	43.81	0.30
arquilocamping	penascosa	1360	Pr50	9.50	1133.89	1134.37		1134.39	0.002841	0.59	16.10	45.78	0.32
arquilocamping	penascosa	1360	Pr100	12.05	1133.89	1134.42		1134.44	0.003123	0.66	18.37	47.82	0.34
arquilocamping	penascosa	1360	Pr200	15.00	1133.89	1134.47		1134.49	0.003351	0.72	20.85	49.80	0.36
arquilocamping	penascosa	1360	Pr500	19.45	1133.89	1134.53		1134.57	0.003641	0.80	24.25	52.37	0.38
arquilocamping	penascosa	1340	Pr25	7.45	1133.92	1134.18		1134.23	0.017235	0.96	7.76	41.13	0.71
arquilocamping	penascosa	1340	Pr50	9.50	1133.92	1134.21		1134.27	0.017482	1.05	9.06	42.48	0.72
arquilocamping	penascosa	1340	Pr100	12.05	1133.92	1134.25		1134.31	0.017469	1.14	10.60	44.06	0.74
arquilocamping	penascosa	1340	Pr200	15.00	1133.92	1134.28		1134.36	0.017639	1.23	12.23	45.68	0.76
arquilocamping	penascosa	1340	Pr500	19.45	1133.92	1134.33		1134.42	0.018068	1.35	14.41	47.40	0.78
arquilocamping	penascosa	1320	Pr25	7.45	1133.56	1133.83		1133.88	0.017925	0.98	7.58	39.89	0.72
arquilocamping	penascosa	1320	Pr50	9.50	1133.56	1133.86		1133.92	0.017328	1.05	9.04	41.93	0.72
arquilocamping	penascosa	1320	Pr100	12.05	1133.56	1133.90		1133.97	0.017169	1.13	10.64	43.90	0.73
arquilocamping	penascosa	1320	Pr200	15.00	1133.56	1133.94		1134.01	0.016711	1.21	12.42	45.58	0.74
arquilocamping	penascosa	1320	Pr500	19.45	1133.56	1133.99		1134.08	0.016287	1.31	14.89	47.65	0.75
arquilocamping	penascosa	1300	Pr25	7.45	1133.24	1133.54		1133.58	0.012613	0.88	8.51	40.94	0.61
arquilocamping	penascosa	1300	Pr50	9.50	1133.24	1133.57		1133.62	0.012892	0.96	9.91	42.29	0.63
arquilocamping	penascosa	1300	Pr100	12.05	1133.24	1133.61		1133.66	0.013404	1.05	11.45	43.74	0.66
arquilocamping	penascosa	1300	Pr200	15.00	1133.24	1133.65		1133.71	0.013627	1.14	13.18	45.32	0.67
arquilocamping	penascosa	1300	Pr500	19.45	1133.24	1133.69		1133.77	0.014359	1.26	15.42	47.26	0.71
arquilocamping	penascosa	1280	Pr25	7.45	1132.81	1133.15	1133.13	1133.22	0.025486	1.17	6.36	33.57	0.86
arquilocamping	penascosa	1280	Pr50	9.50	1132.81	1133.19		1133.27	0.023917	1.22	7.79	36.81	0.85
arquilocamping	penascosa	1280	Pr100	12.05	1132.81	1133.24		1133.32	0.022284	1.26	9.53	40.51	0.83
arquilocamping	penascosa	1280	Pr200	15.00	1132.81	1133.28		1133.37	0.021158	1.32	11.35	43.35	0.82
arquilocamping	penascosa	1280	Pr500	19.45	1132.81	1133.34		1133.44	0.019731	1.42	13.67	44.42	0.82
arquilocamping	penascosa	1260	Pr25	7.45	1132.35	1132.76		1132.82	0.016230	1.11	6.72	27.41	0.71
arquilocamping	penascosa	1260	Pr50	9.50	1132.35	1132.80		1132.87	0.016872	1.21	7.86	29.02	0.74
arquilocamping	penascosa	1260	Pr100	12.05	1132.35	1132.84		1132.93	0.017193	1.32	9.15	30.07	0.76
arquilocamping	penascosa	1260	Pr200	15.00	1132.35	1132.89		1132.99	0.017322	1.42	10.55	31.07	0.78
arquilocamping	penascosa	1260	Pr500	19.45	1132.35	1132.95		1133.07	0.016806	1.54	12.67	32.53	0.79
arquilocamping	penascosa	1240	Pr25	7.45	1131.99	1132.37		1132.45	0.020505	1.28	5.81	22.65	0.81
arquilocamping	penascosa	1240	Pr50	9.50	1131.99	1132.42		1132.52	0.018696	1.35	7.02	23.57	0.79

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	penascosa	1240	Pr100	12.05	1131.99	1132.48		1132.59	0.017121	1.42	8.46	24.63	0.78
arquilocamping	penascosa	1240	Pr200	15.00	1131.99	1132.55		1132.66	0.015815	1.49	10.05	25.68	0.76
arquilocamping	penascosa	1240	Pr500	19.45	1131.99	1132.63		1132.76	0.014849	1.59	12.21	27.00	0.76
arquilocamping	penascosa	1220	Pr25	7.45	1131.53	1132.06		1132.13	0.012983	1.21	6.18	18.77	0.67
arquilocamping	penascosa	1220	Pr50	9.50	1131.53	1132.11		1132.20	0.013814	1.31	7.23	20.24	0.70
arquilocamping	penascosa	1220	Pr100	12.05	1131.53	1132.17		1132.27	0.014610	1.43	8.45	21.79	0.73
arquilocamping	penascosa	1220	Pr200	15.00	1131.53	1132.22		1132.34	0.015380	1.54	9.73	23.21	0.76
arquilocamping	penascosa	1220	Pr500	19.45	1131.53	1132.30		1132.44	0.016438	1.69	11.48	25.00	0.80
arquilocamping	penascosa	1200	Pr25	7.45	1131.32	1131.80		1131.86	0.013175	1.08	6.92	25.20	0.66
arquilocamping	penascosa	1200	Pr50	9.50	1131.32	1131.85		1131.92	0.013115	1.15	8.27	27.27	0.67
arquilocamping	penascosa	1200	Pr100	12.05	1131.32	1131.91		1131.98	0.013178	1.24	9.75	28.89	0.68
arquilocamping	penascosa	1200	Pr200	15.00	1131.32	1131.96		1132.05	0.013348	1.33	11.27	30.18	0.69
arquilocamping	penascosa	1200	Pr500	19.45	1131.32	1132.03		1132.13	0.013532	1.45	13.43	31.99	0.71
arquilocamping	penascosa	1180	Pr25	7.45	1131.13	1131.45		1131.53	0.021562	1.24	6.03	25.88	0.82
arquilocamping	penascosa	1180	Pr50	9.50	1131.13	1131.49		1131.58	0.022017	1.34	7.07	27.18	0.84
arquilocamping	penascosa	1180	Pr100	12.05	1131.13	1131.53	1131.50	1131.64	0.022896	1.47	8.22	28.54	0.87
arquilocamping	penascosa	1180	Pr200	15.00	1131.13	1131.58	1131.55	1131.70	0.022878	1.57	9.56	29.96	0.89
arquilocamping	penascosa	1180	Pr500	19.45	1131.13	1131.64	1131.61	1131.79	0.022776	1.70	11.44	31.68	0.90
arquilocamping	penascosa	1160	Pr25	7.45	1130.55	1130.99		1131.08	0.022852	1.36	5.49	21.31	0.85
arquilocamping	penascosa	1160	Pr50	9.50	1130.55	1131.04		1131.15	0.021331	1.42	6.70	23.17	0.84
arquilocamping	penascosa	1160	Pr100	12.05	1130.55	1131.10		1131.21	0.020104	1.49	8.08	24.77	0.83
arquilocamping	penascosa	1160	Pr200	15.00	1130.55	1131.16		1131.28	0.019150	1.57	9.58	26.36	0.83
arquilocamping	penascosa	1160	Pr500	19.45	1130.55	1131.24		1131.38	0.018370	1.66	11.69	28.42	0.83
arquilocamping	penascosa	1140	Pr25	7.45	1130.27	1130.83		1130.86	0.005787	0.81	9.22	27.84	0.45
arquilocamping	penascosa	1140	Pr50	9.50	1130.27	1130.88		1130.92	0.006045	0.88	10.79	29.61	0.47
arquilocamping	penascosa	1140	Pr100	12.05	1130.27	1130.94		1130.99	0.006236	0.95	12.63	31.49	0.48
arquilocamping	penascosa	1140	Pr200	15.00	1130.27	1131.00		1131.06	0.006457	1.03	14.60	33.42	0.50
arquilocamping	penascosa	1140	Pr500	19.45	1130.27	1131.08		1131.15	0.006756	1.12	17.30	35.80	0.52
arquilocamping	penascosa	1120	Pr25	7.45	1130.18	1130.63		1130.69	0.013882	1.08	6.92	26.18	0.67
arquilocamping	penascosa	1120	Pr50	9.50	1130.18	1130.68		1130.74	0.014040	1.16	8.22	28.22	0.68
arquilocamping	penascosa	1120	Pr100	12.05	1130.18	1130.73		1130.81	0.014272	1.24	9.71	30.39	0.70
arquilocamping	penascosa	1120	Pr200	15.00	1130.18	1130.78	1130.69	1130.87	0.014423	1.32	11.37	32.68	0.71
arquilocamping	penascosa	1120	Pr500	19.45	1130.18	1130.85	1130.76	1130.95	0.014609	1.42	13.68	35.48	0.73

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	penascosa	1100	Pr25	7.45	1129.77	1130.16	1130.16	1130.27	0.033306	1.51	4.94	21.75	1.01
arquilocamping	penascosa	1100	Pr50	9.50	1129.77	1130.20	1130.20	1130.33	0.031913	1.59	5.97	23.55	1.01
arquilocamping	penascosa	1100	Pr100	12.05	1129.77	1130.25	1130.25	1130.39	0.030823	1.68	7.19	25.48	1.01
arquilocamping	penascosa	1100	Pr200	15.00	1129.77	1130.30	1130.30	1130.46	0.030105	1.77	8.49	27.35	1.01
arquilocamping	penascosa	1100	Pr500	19.45	1129.77	1130.37	1130.37	1130.55	0.028776	1.88	10.37	29.50	1.01
arquilocamping	penascosa	1080	Pr25	7.45	1129.37	1129.81	1129.67	1129.84	0.007391	0.87	8.53	27.58	0.50
arquilocamping	penascosa	1080	Pr50	9.50	1129.37	1129.87	1129.71	1129.91	0.006636	0.91	10.42	29.12	0.49
arquilocamping	penascosa	1080	Pr100	12.05	1129.37	1129.94	1129.76	1129.99	0.006135	0.96	12.58	30.78	0.48
arquilocamping	penascosa	1080	Pr200	15.00	1129.37	1130.02	1129.81	1130.07	0.005853	1.01	14.86	32.42	0.48
arquilocamping	penascosa	1080	Pr500	19.45	1129.37	1130.11	1129.87	1130.17	0.005725	1.09	17.92	34.50	0.48
arquilocamping	penascosa	1060	Pr25	7.45	1128.89	1129.75		1129.76	0.002221	0.62	11.98	26.10	0.29
arquilocamping	penascosa	1060	Pr50	9.50	1128.89	1129.81		1129.83	0.002538	0.70	13.66	27.79	0.32
arquilocamping	penascosa	1060	Pr100	12.05	1128.89	1129.87		1129.91	0.002897	0.77	15.60	29.92	0.34
arquilocamping	penascosa	1060	Pr200	15.00	1128.89	1129.94		1129.98	0.003245	0.85	17.69	32.15	0.36
arquilocamping	penascosa	1060	Pr500	19.45	1128.89	1130.03		1130.07	0.003649	0.95	20.56	34.60	0.39
arquilocamping	penascosa	1040	Pr25	7.45	1129.23	1129.54	1129.54	1129.64	0.034034	1.45	5.15	24.57	1.01
arquilocamping	penascosa	1040	Pr50	9.50	1129.23	1129.58	1129.58	1129.70	0.032917	1.54	6.16	26.03	1.01
arquilocamping	penascosa	1040	Pr100	12.05	1129.23	1129.62	1129.62	1129.76	0.031328	1.63	7.39	27.70	1.01
arquilocamping	penascosa	1040	Pr200	15.00	1129.23	1129.67	1129.67	1129.82	0.030177	1.72	8.74	29.41	1.01
arquilocamping	penascosa	1040	Pr500	19.45	1129.23	1129.73	1129.73	1129.90	0.029086	1.83	10.63	31.68	1.01
arquilocamping	penascosa	1020	Pr25	7.45	1128.32	1128.69	1128.72	1128.86	0.045163	1.80	4.14	17.57	1.18
arquilocamping	penascosa	1020	Pr50	9.50	1128.32	1128.74	1128.77	1128.93	0.045188	1.93	4.93	18.94	1.20
arquilocamping	penascosa	1020	Pr100	12.05	1128.32	1128.78	1128.83	1129.00	0.045857	2.07	5.83	20.30	1.23
arquilocamping	penascosa	1020	Pr200	15.00	1128.32	1128.83	1128.89	1129.08	0.045786	2.19	6.84	21.78	1.25
arquilocamping	penascosa	1020	Pr500	19.45	1128.32	1128.89	1128.96	1129.17	0.045268	2.35	8.29	23.65	1.27
arquilocamping	penascosa	1000	Pr25	7.45	1127.53	1127.87	1127.88	1128.01	0.039567	1.64	4.55	20.16	1.10
arquilocamping	penascosa	1000	Pr50	9.50	1127.53	1127.91	1127.93	1128.07	0.039838	1.77	5.36	21.17	1.13
arquilocamping	penascosa	1000	Pr100	12.05	1127.53	1127.95	1127.98	1128.14	0.039783	1.91	6.32	22.35	1.15
arquilocamping	penascosa	1000	Pr200	15.00	1127.53	1128.00	1128.03	1128.21	0.040212	2.04	7.34	23.57	1.17
arquilocamping	penascosa	1000	Pr500	19.45	1127.53	1128.05	1128.10	1128.31	0.040964	2.23	8.71	24.84	1.20
arquilocamping	penascosa	980	Pr25	7.45	1125.88	1126.21	1126.34	1126.63	0.139427	2.88	2.58	12.61	2.03
arquilocamping	penascosa	980	Pr50	9.50	1125.88	1126.25	1126.39	1126.71	0.131356	3.02	3.15	13.73	2.01
arquilocamping	penascosa	980	Pr100	12.05	1125.88	1126.30	1126.45	1126.80	0.125847	3.15	3.83	15.13	2.00
arquilocamping	penascosa	980	Pr200	15.00	1125.88	1126.34	1126.51	1126.89	0.119068	3.27	4.59	16.44	1.98

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	penascosa	980	Pr500	19.45	1125.88	1126.41	1126.59	1127.00	0.111297	3.42	5.69	18.15	1.95
arquilocamping	penascosa	960	Pr25	7.45	1125.39	1126.36	1125.76	1126.36	0.000390	0.32	23.00	36.18	0.13
arquilocamping	penascosa	960	Pr50	9.50	1125.39	1126.41	1125.80	1126.42	0.000493	0.38	25.12	37.37	0.15
arquilocamping	penascosa	960	Pr100	12.05	1125.39	1126.48	1125.85	1126.49	0.000616	0.44	27.48	38.66	0.17
arquilocamping	penascosa	960	Pr200	15.00	1125.39	1126.54	1125.89	1126.55	0.000746	0.50	29.96	39.87	0.18
arquilocamping	penascosa	960	Pr500	19.45	1125.39	1126.62	1125.96	1126.64	0.000920	0.59	33.24	40.98	0.21
arquilocamping	penascosa	940	Pr25	7.45	1125.90	1126.22	1126.22	1126.33	0.034165	1.42	5.25	25.88	1.00
arquilocamping	penascosa	940	Pr50	9.50	1125.90	1126.26	1126.26	1126.38	0.033324	1.51	6.28	27.61	1.01
arquilocamping	penascosa	940	Pr100	12.05	1125.90	1126.31	1126.31	1126.44	0.031754	1.58	7.64	30.32	1.00
arquilocamping	penascosa	940	Pr200	15.00	1125.90	1126.35	1126.35	1126.49	0.031211	1.67	9.00	32.54	1.01
arquilocamping	penascosa	940	Pr500	19.45	1125.90	1126.41	1126.41	1126.57	0.030192	1.75	11.12	36.47	1.01
arquilocamping	penascosa	920	Pr25	7.45	1125.13	1125.48	1125.49	1125.61	0.037904	1.58	4.70	21.22	1.07
arquilocamping	penascosa	920	Pr50	9.50	1125.13	1125.52	1125.53	1125.67	0.038012	1.71	5.57	22.51	1.10
arquilocamping	penascosa	920	Pr100	12.05	1125.13	1125.56	1125.58	1125.73	0.038646	1.84	6.54	23.89	1.12
arquilocamping	penascosa	920	Pr200	15.00	1125.13	1125.61	1125.63	1125.80	0.038071	1.95	7.68	25.40	1.13
arquilocamping	penascosa	920	Pr500	19.45	1125.13	1125.67	1125.70	1125.89	0.037828	2.10	9.26	27.31	1.15
arquilocamping	penascosa	900	Pr25	7.45	1123.78	1124.12	1124.21	1124.41	0.105285	2.36	3.16	16.83	1.74
arquilocamping	penascosa	900	Pr50	9.50	1123.78	1124.16	1124.26	1124.48	0.101834	2.50	3.80	18.17	1.74
arquilocamping	penascosa	900	Pr100	12.05	1123.78	1124.20	1124.31	1124.55	0.097306	2.62	4.59	19.69	1.73
arquilocamping	penascosa	900	Pr200	15.00	1123.78	1124.24	1124.36	1124.63	0.096307	2.78	5.40	21.15	1.75
arquilocamping	penascosa	900	Pr500	19.45	1123.78	1124.29	1124.43	1124.74	0.093952	2.95	6.59	23.11	1.76
arquilocamping	penascosa	880	Pr25	7.45	1123.58	1123.94	1123.84	1123.98	0.009936	0.89	8.42	33.30	0.56
arquilocamping	penascosa	880	Pr50	9.50	1123.58	1123.98	1123.88	1124.03	0.010512	0.97	9.76	34.98	0.59
arquilocamping	penascosa	880	Pr100	12.05	1123.58	1124.02	1123.92	1124.08	0.011198	1.07	11.23	36.43	0.62
arquilocamping	penascosa	880	Pr200	15.00	1123.58	1124.06	1123.96	1124.13	0.011988	1.18	12.75	37.88	0.65
arquilocamping	penascosa	880	Pr500	19.45	1123.58	1124.12	1124.02	1124.20	0.012849	1.30	14.91	40.01	0.68
arquilocamping	penascosa	860	Pr25	7.45	1123.31	1123.55	1123.55	1123.62	0.039331	1.21	6.15	42.65	1.02
arquilocamping	penascosa	860	Pr50	9.50	1123.31	1123.58	1123.58	1123.66	0.036869	1.30	7.31	43.41	1.01
arquilocamping	penascosa	860	Pr100	12.05	1123.31	1123.61	1123.61	1123.71	0.035146	1.40	8.61	44.25	1.01
arquilocamping	penascosa	860	Pr200	15.00	1123.31	1123.64	1123.64	1123.75	0.033035	1.49	10.09	45.17	1.00
arquilocamping	penascosa	860	Pr500	19.45	1123.31	1123.68	1123.68	1123.82	0.031422	1.61	12.10	46.40	1.00
arquilocamping	penascosa	840	Pr25	7.45	1122.88	1123.27	1123.15	1123.29	0.004769	0.61	12.29	49.50	0.39
arquilocamping	penascosa	840	Pr50	9.50	1122.88	1123.33	1123.17	1123.35	0.004084	0.63	15.10	51.19	0.37

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	penascosa	840	Pr100	12.05	1122.88	1123.39	1123.20	1123.41	0.003531	0.65	18.47	53.19	0.35
arquilocamping	penascosa	840	Pr200	15.00	1122.88	1123.46	1123.23	1123.48	0.003129	0.68	22.20	55.36	0.34
arquilocamping	penascosa	840	Pr500	19.45	1122.88	1123.55	1123.27	1123.58	0.002759	0.71	27.42	57.86	0.33
arquilocamping	penascosa	820	Pr25	7.45	1122.78	1123.20		1123.22	0.002805	0.51	14.57	50.85	0.30
arquilocamping	penascosa	820	Pr50	9.50	1122.78	1123.27		1123.29	0.002383	0.53	18.06	53.49	0.29
arquilocamping	penascosa	820	Pr100	12.05	1122.78	1123.34		1123.36	0.002087	0.55	22.04	55.72	0.28
arquilocamping	penascosa	820	Pr200	15.00	1122.78	1123.42		1123.43	0.001903	0.57	26.25	57.95	0.27
arquilocamping	penascosa	820	Pr500	19.45	1122.78	1123.51		1123.53	0.001759	0.61	32.00	60.72	0.27
arquilocamping	penascosa	800	Pr25	7.45	1122.47	1123.16		1123.17	0.001815	0.49	15.14	40.36	0.26
arquilocamping	penascosa	800	Pr50	9.50	1122.47	1123.23		1123.24	0.001851	0.53	18.03	44.05	0.26
arquilocamping	penascosa	800	Pr100	12.05	1122.47	1123.30		1123.32	0.001896	0.56	21.45	48.44	0.27
arquilocamping	penascosa	800	Pr200	15.00	1122.47	1123.38		1123.40	0.001916	0.59	25.26	52.90	0.27
arquilocamping	penascosa	800	Pr500	19.45	1122.47	1123.48		1123.50	0.001896	0.63	30.72	58.00	0.28
arquilocamping	arquillo	780	Pr25	8.90	1122.27	1123.13	1122.64	1123.13	0.000654	0.37	24.33	47.07	0.16
arquilocamping	arquillo	780	Pr50	11.40	1122.27	1123.19	1122.68	1123.20	0.000769	0.42	27.42	49.45	0.18
arquilocamping	arquillo	780	Pr100	14.45	1122.27	1123.26	1122.73	1123.27	0.000880	0.47	30.92	51.78	0.19
arquilocamping	arquillo	780	Pr200	18.00	1122.27	1123.33	1122.78	1123.34	0.000988	0.52	34.68	54.06	0.21
arquilocamping	arquillo	780	Pr500	23.35	1122.27	1123.42	1122.84	1123.44	0.001122	0.59	39.87	57.06	0.22
arquilocamping	arquillo	760	Pr25	8.90	1122.56	1123.10		1123.11	0.002088	0.53	16.75	44.25	0.28
arquilocamping	arquillo	760	Pr50	11.40	1122.56	1123.16		1123.17	0.002190	0.59	19.46	46.00	0.29
arquilocamping	arquillo	760	Pr100	14.45	1122.56	1123.22		1123.24	0.002286	0.64	22.53	47.99	0.30
arquilocamping	arquillo	760	Pr200	18.00	1122.56	1123.29		1123.31	0.002378	0.70	25.82	50.02	0.31
arquilocamping	arquillo	760	Pr500	23.35	1122.56	1123.38		1123.41	0.002471	0.77	30.37	52.24	0.32
arquilocamping	arquillo	740	Pr25	8.90	1122.56	1123.01		1123.04	0.006096	0.81	11.01	34.61	0.46
arquilocamping	arquillo	740	Pr50	11.40	1122.56	1123.06		1123.10	0.006236	0.88	12.91	36.14	0.47
arquilocamping	arquillo	740	Pr100	14.45	1122.56	1123.12		1123.17	0.006315	0.96	15.10	37.84	0.48
arquilocamping	arquillo	740	Pr200	18.00	1122.56	1123.18		1123.24	0.006415	1.03	17.47	39.62	0.50
arquilocamping	arquillo	740	Pr500	23.35	1122.56	1123.26		1123.33	0.006543	1.12	20.77	41.97	0.51
arquilocamping	arquillo	720	Pr25	8.90	1122.42	1122.85		1122.89	0.009245	0.93	9.55	33.17	0.55
arquilocamping	arquillo	720	Pr50	11.40	1122.42	1122.90		1122.95	0.008959	0.99	11.46	35.21	0.56
arquilocamping	arquillo	720	Pr100	14.45	1122.42	1122.96		1123.02	0.008825	1.06	13.59	37.36	0.56
arquilocamping	arquillo	720	Pr200	18.00	1122.42	1123.02		1123.09	0.008664	1.13	15.95	39.52	0.57
arquilocamping	arquillo	720	Pr500	23.35	1122.42	1123.10		1123.18	0.008461	1.21	19.28	42.24	0.57

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	arquillo	700	Pr25	8.90	1122.19	1122.65		1122.70	0.009522	0.98	9.10	30.01	0.57
arquilocamping	arquillo	700	Pr50	11.40	1122.19	1122.70		1122.76	0.009951	1.07	10.61	31.44	0.59
arquilocamping	arquillo	700	Pr100	14.45	1122.19	1122.76		1122.83	0.010352	1.17	12.31	32.85	0.61
arquilocamping	arquillo	700	Pr200	18.00	1122.19	1122.81		1122.89	0.010705	1.27	14.15	34.32	0.63
arquilocamping	arquillo	700	Pr500	23.35	1122.19	1122.88		1122.98	0.011076	1.39	16.74	36.30	0.66
arquilocamping	arquillo	680	Pr25	8.90	1121.95	1122.30	1122.28	1122.40	0.027246	1.40	6.34	26.76	0.92
arquilocamping	arquillo	680	Pr50	11.40	1121.95	1122.35	1122.32	1122.46	0.024980	1.48	7.71	28.21	0.90
arquilocamping	arquillo	680	Pr100	14.45	1121.95	1122.40	1122.37	1122.52	0.023065	1.55	9.30	29.78	0.89
arquilocamping	arquillo	680	Pr200	18.00	1121.95	1122.46		1122.59	0.021532	1.63	11.07	31.44	0.87
arquilocamping	arquillo	680	Pr500	23.35	1121.95	1122.54		1122.69	0.019914	1.71	13.62	33.69	0.86
arquilocamping	arquillo	660	Pr25	8.90	1121.51	1122.04		1122.10	0.008787	0.99	8.95	27.10	0.55
arquilocamping	arquillo	660	Pr50	11.40	1121.51	1122.11		1122.17	0.008727	1.06	10.71	29.11	0.56
arquilocamping	arquillo	660	Pr100	14.45	1121.51	1122.18		1122.24	0.008584	1.13	12.78	31.38	0.57
arquilocamping	arquillo	660	Pr200	18.00	1121.51	1122.25		1122.32	0.008407	1.19	15.09	33.65	0.57
arquilocamping	arquillo	660	Pr500	23.35	1121.51	1122.33		1122.42	0.008426	1.29	18.17	36.29	0.58
arquilocamping	arquillo	640	Pr25	8.90	1121.26	1121.70	1121.68	1121.81	0.025565	1.48	6.03	22.52	0.91
arquilocamping	arquillo	640	Pr50	11.40	1121.26	1121.75	1121.73	1121.88	0.026154	1.61	7.08	23.61	0.94
arquilocamping	arquillo	640	Pr100	14.45	1121.26	1121.79	1121.78	1121.95	0.027888	1.77	8.15	24.62	0.98
arquilocamping	arquillo	640	Pr200	18.00	1121.26	1121.84	1121.84	1122.03	0.028490	1.91	9.40	25.76	1.01
arquilocamping	arquillo	640	Pr500	23.35	1121.26	1121.92	1121.92	1122.13	0.027142	2.04	11.45	27.51	1.01
arquilocamping	arquillo	620	Pr25	8.90	1120.71	1121.11	1121.11	1121.24	0.031853	1.62	5.50	21.09	1.01
arquilocamping	arquillo	620	Pr50	11.40	1120.71	1121.16	1121.16	1121.31	0.030777	1.72	6.62	22.54	1.01
arquilocamping	arquillo	620	Pr100	14.45	1120.71	1121.22	1121.22	1121.38	0.029044	1.81	7.99	24.20	1.00
arquilocamping	arquillo	620	Pr200	18.00	1120.71	1121.27	1121.27	1121.46	0.028348	1.91	9.42	25.74	1.01
arquilocamping	arquillo	620	Pr500	23.35	1120.71	1121.34	1121.35	1121.56	0.029490	2.10	11.10	27.10	1.05
arquilocamping	arquillo	600	Pr25	8.90	1119.94	1120.45	1120.34	1120.52	0.011401	1.19	7.49	21.08	0.64
arquilocamping	arquillo	600	Pr50	11.40	1119.94	1120.51	1120.39	1120.60	0.011164	1.28	8.93	22.23	0.64
arquilocamping	arquillo	600	Pr100	14.45	1119.94	1120.59	1120.45	1120.68	0.010709	1.36	10.66	23.51	0.64
arquilocamping	arquillo	600	Pr200	18.00	1119.94	1120.67	1120.51	1120.77	0.010327	1.43	12.58	24.85	0.64
arquilocamping	arquillo	600	Pr500	23.35	1119.94	1120.77	1120.60	1120.89	0.009829	1.53	15.31	26.50	0.64
arquilocamping	arquillo	580	Pr25	8.90	1119.46	1119.99	1119.99	1120.16	0.029321	1.83	4.86	14.48	1.01
arquilocamping	arquillo	580	Pr50	11.40	1119.46	1120.06	1120.06	1120.25	0.027760	1.94	5.87	15.38	1.00
arquilocamping	arquillo	580	Pr100	14.45	1119.46	1120.13	1120.13	1120.35	0.027220	2.07	6.97	16.30	1.01
arquilocamping	arquillo	580	Pr200	18.00	1119.46	1120.20	1120.20	1120.45	0.026198	2.19	8.24	17.31	1.01

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	arquillo	580	Pr500	23.35	1119.46	1120.30	1120.30	1120.58	0.025099	2.32	10.05	18.65	1.01
arquilocamping	arquillo	560	Pr25	8.90	1118.65	1119.15	1119.21	1119.38	0.053431	2.12	4.20	15.82	1.31
arquilocamping	arquillo	560	Pr50	11.40	1118.65	1119.19	1119.27	1119.47	0.057270	2.33	4.90	16.85	1.38
arquilocamping	arquillo	560	Pr100	14.45	1118.65	1119.24	1119.33	1119.56	0.058929	2.52	5.74	17.95	1.42
arquilocamping	arquillo	560	Pr200	18.00	1118.65	1119.29	1119.40	1119.67	0.061306	2.72	6.62	19.03	1.47
arquilocamping	arquillo	560	Pr500	23.35	1118.65	1119.35	1119.49	1119.80	0.064239	2.97	7.86	20.44	1.53
arquilocamping	arquillo	540	Pr25	8.90	1117.57	1117.95	1118.02	1118.20	0.064496	2.22	4.00	16.14	1.43
arquilocamping	arquillo	540	Pr50	11.40	1117.57	1118.00	1118.08	1118.28	0.061299	2.34	4.88	17.61	1.42
arquilocamping	arquillo	540	Pr100	14.45	1117.57	1118.06	1118.15	1118.37	0.060199	2.47	5.85	19.15	1.43
arquilocamping	arquillo	540	Pr200	18.00	1117.57	1118.11	1118.21	1118.45	0.058774	2.60	6.93	20.69	1.43
arquilocamping	arquillo	540	Pr500	23.35	1117.57	1118.18	1118.30	1118.57	0.057278	2.76	8.46	22.56	1.44
arquilocamping	arquillo	520	Pr25	8.90	1116.86	1117.64	1117.26	1117.65	0.001511	0.55	16.21	31.94	0.25
arquilocamping	arquillo	520	Pr50	11.40	1116.86	1117.69	1117.32	1117.71	0.001850	0.64	17.91	32.89	0.28
arquilocamping	arquillo	520	Pr100	14.45	1116.86	1117.74	1117.37	1117.77	0.002258	0.73	19.69	33.89	0.31
arquilocamping	arquillo	520	Pr200	18.00	1116.86	1117.80	1117.42	1117.83	0.002699	0.84	21.54	34.91	0.34
arquilocamping	arquillo	520	Pr500	23.35	1116.86	1117.87	1117.49	1117.92	0.003294	0.97	24.08	36.25	0.38
arquilocamping	arquillo	500	Pr25	8.90	1117.14	1117.57		1117.60	0.006237	0.73	12.27	46.20	0.45
arquilocamping	arquillo	500	Pr50	11.40	1117.14	1117.61		1117.65	0.006430	0.79	14.34	48.15	0.46
arquilocamping	arquillo	500	Pr100	14.45	1117.14	1117.66		1117.70	0.006874	0.88	16.42	49.74	0.49
arquilocamping	arquillo	500	Pr200	18.00	1117.14	1117.70		1117.75	0.007267	0.97	18.65	51.24	0.51
arquilocamping	arquillo	500	Pr500	23.35	1117.14	1117.76		1117.82	0.007702	1.07	21.75	53.25	0.54
arquilocamping	arquillo	480	Pr25	8.90	1116.94	1117.49		1117.51	0.003242	0.52	17.03	64.12	0.32
arquilocamping	arquillo	480	Pr50	11.40	1116.94	1117.53		1117.55	0.003401	0.58	19.73	66.21	0.34
arquilocamping	arquillo	480	Pr100	14.45	1116.94	1117.57		1117.59	0.003867	0.66	22.03	67.30	0.37
arquilocamping	arquillo	480	Pr200	18.00	1116.94	1117.61		1117.63	0.004185	0.73	24.67	68.23	0.39
arquilocamping	arquillo	480	Pr500	23.35	1116.94	1117.66		1117.70	0.004455	0.82	28.51	69.42	0.41
arquilocamping	arquillo	460	Pr25	8.90	1117.04	1117.29	1117.29	1117.35	0.032064	1.08	8.22	57.97	0.92
arquilocamping	arquillo	460	Pr50	11.40	1117.04	1117.31	1117.31	1117.39	0.034027	1.20	9.49	59.76	0.96
arquilocamping	arquillo	460	Pr100	14.45	1117.04	1117.36	1117.34	1117.43	0.023101	1.16	12.43	61.53	0.83
arquilocamping	arquillo	460	Pr200	18.00	1117.04	1117.42	1117.36	1117.48	0.015918	1.12	16.06	63.50	0.71
arquilocamping	arquillo	460	Pr500	23.35	1117.04	1117.51	1117.41	1117.56	0.010294	1.07	21.75	66.16	0.60
arquilocamping	arquillo	440	Pr25	8.90	1116.73	1117.12	1116.96	1117.14	0.004055	0.63	14.10	47.35	0.37
arquilocamping	arquillo	440	Pr50	11.40	1116.73	1117.18		1117.20	0.003720	0.67	17.06	49.29	0.36

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	arquillo	440	Pr100	14.45	1116.73	1117.25		1117.27	0.003369	0.70	20.63	51.54	0.35
arquilocamping	arquillo	440	Pr200	18.00	1116.73	1117.33		1117.35	0.003078	0.73	24.62	53.86	0.35
arquilocamping	arquillo	440	Pr500	23.35	1116.73	1117.43		1117.46	0.002712	0.77	30.48	56.56	0.33
arquilocamping	arquillo	420	Pr25	8.90	1116.48	1116.97		1117.02	0.009589	0.97	9.15	30.57	0.57
arquilocamping	arquillo	420	Pr50	11.40	1116.48	1117.04		1117.09	0.008140	0.98	11.58	33.62	0.54
arquilocamping	arquillo	420	Pr100	14.45	1116.48	1117.13		1117.18	0.007018	0.99	14.53	37.19	0.51
arquilocamping	arquillo	420	Pr200	18.00	1116.48	1117.22		1117.27	0.005937	1.00	17.94	39.96	0.48
arquilocamping	arquillo	420	Pr500	23.35	1116.48	1117.33		1117.39	0.004866	1.02	22.90	42.88	0.45
arquilocamping	arquillo	400	Pr25	8.90	1116.23	1116.86		1116.89	0.004201	0.83	10.67	24.16	0.40
arquilocamping	arquillo	400	Pr50	11.40	1116.23	1116.94		1116.98	0.004130	0.90	12.68	25.33	0.41
arquilocamping	arquillo	400	Pr100	14.45	1116.23	1117.02		1117.07	0.004094	0.97	14.95	26.58	0.41
arquilocamping	arquillo	400	Pr200	18.00	1116.23	1117.11		1117.17	0.004088	1.03	17.41	27.96	0.42
arquilocamping	arquillo	400	Pr500	23.35	1116.23	1117.23		1117.30	0.004079	1.12	20.88	29.73	0.43
arquilocamping	arquillo	380	Pr25	8.90	1116.03	1116.83		1116.84	0.001345	0.55	16.07	28.60	0.24
arquilocamping	arquillo	380	Pr50	11.40	1116.03	1116.91		1116.92	0.001493	0.62	18.41	29.96	0.25
arquilocamping	arquillo	380	Pr100	14.45	1116.03	1116.99		1117.02	0.001635	0.69	21.05	31.42	0.27
arquilocamping	arquillo	380	Pr200	18.00	1116.03	1117.08		1117.11	0.001752	0.75	23.94	32.81	0.28
arquilocamping	arquillo	380	Pr500	23.35	1116.03	1117.20		1117.24	0.001879	0.83	27.96	34.52	0.30
arquilocamping	arquillo	360	Pr25	8.90	1116.16	1116.79		1116.81	0.001856	0.57	15.48	33.22	0.27
arquilocamping	arquillo	360	Pr50	11.40	1116.16	1116.87		1116.89	0.001903	0.63	18.15	34.73	0.28
arquilocamping	arquillo	360	Pr100	14.45	1116.16	1116.96		1116.98	0.001937	0.68	21.16	36.19	0.29
arquilocamping	arquillo	360	Pr200	18.00	1116.16	1117.04		1117.07	0.001963	0.74	24.45	37.73	0.29
arquilocamping	arquillo	360	Pr500	23.35	1116.16	1117.16		1117.20	0.001993	0.80	29.05	39.75	0.30
arquilocamping	arquillo	340	Pr25	8.90	1116.14	1116.74		1116.76	0.002931	0.66	13.53	33.42	0.33
arquilocamping	arquillo	340	Pr50	11.40	1116.14	1116.82		1116.84	0.002801	0.70	16.23	35.11	0.33
arquilocamping	arquillo	340	Pr100	14.45	1116.14	1116.91		1116.93	0.002691	0.75	19.31	36.87	0.33
arquilocamping	arquillo	340	Pr200	18.00	1116.14	1117.00		1117.03	0.002598	0.79	22.70	38.70	0.33
arquilocamping	arquillo	340	Pr500	23.35	1116.14	1117.12		1117.15	0.002488	0.85	27.48	40.88	0.33
arquilocamping	arquillo	320	Pr25	8.90	1116.08	1116.67		1116.70	0.003203	0.73	12.28	28.00	0.35
arquilocamping	arquillo	320	Pr50	11.40	1116.08	1116.75		1116.79	0.003153	0.78	14.54	29.11	0.35
arquilocamping	arquillo	320	Pr100	14.45	1116.08	1116.84		1116.88	0.003131	0.85	17.06	30.26	0.36
arquilocamping	arquillo	320	Pr200	18.00	1116.08	1116.93		1116.97	0.003116	0.91	19.80	31.45	0.37
arquilocamping	arquillo	320	Pr500	23.35	1116.08	1117.05		1117.10	0.003117	0.99	23.59	33.01	0.37

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	arquillo	300	Pr25	8.90	1115.88	1116.38	1116.38	1116.54	0.029733	1.79	4.96	15.43	1.01
arquilocamping	arquillo	300	Pr50	11.40	1115.88	1116.44	1116.44	1116.63	0.028524	1.90	5.99	16.51	1.01
arquilocamping	arquillo	300	Pr100	14.45	1115.88	1116.51	1116.51	1116.72	0.027356	2.01	7.19	17.73	1.01
arquilocamping	arquillo	300	Pr200	18.00	1115.88	1116.59	1116.59	1116.81	0.026335	2.11	8.54	19.04	1.00
arquilocamping	arquillo	300	Pr500	23.35	1115.88	1116.68	1116.68	1116.94	0.025586	2.24	10.42	20.74	1.01
arquilocamping	arquillo	280	Pr25	8.90	1114.89	1115.42	1115.50	1115.70	0.061513	2.37	3.76	13.32	1.42
arquilocamping	arquillo	280	Pr50	11.40	1114.89	1115.47	1115.56	1115.80	0.062429	2.55	4.47	14.30	1.46
arquilocamping	arquillo	280	Pr100	14.45	1114.89	1115.52	1115.64	1115.90	0.063111	2.73	5.29	15.37	1.49
arquilocamping	arquillo	280	Pr200	18.00	1114.89	1115.58	1115.71	1116.01	0.063450	2.91	6.19	16.47	1.51
arquilocamping	arquillo	280	Pr500	23.35	1114.89	1115.66	1115.81	1116.15	0.063013	3.11	7.51	17.96	1.54
arquilocamping	arquillo	260	Pr25	8.90	1114.26	1115.25	1114.82	1115.27	0.001565	0.62	14.44	24.49	0.26
arquilocamping	arquillo	260	Pr50	11.40	1114.26	1115.33	1114.88	1115.36	0.001774	0.70	16.39	25.47	0.28
arquilocamping	arquillo	260	Pr100	14.45	1114.26	1115.41	1114.95	1115.44	0.002001	0.78	18.52	26.50	0.30
arquilocamping	arquillo	260	Pr200	18.00	1114.26	1115.50	1115.01	1115.53	0.002240	0.87	20.75	27.54	0.32
arquilocamping	arquillo	260	Pr500	23.35	1114.26	1115.60	1115.09	1115.65	0.002539	0.98	23.78	28.77	0.34
arquilocamping	arquillo	240	Pr25	8.90	1114.59	1115.20		1115.23	0.002960	0.73	12.15	25.70	0.34
arquilocamping	arquillo	240	Pr50	11.40	1114.59	1115.28		1115.31	0.003139	0.81	14.06	26.68	0.36
arquilocamping	arquillo	240	Pr100	14.45	1114.59	1115.35		1115.39	0.003355	0.90	16.13	27.69	0.37
arquilocamping	arquillo	240	Pr200	18.00	1114.59	1115.43		1115.48	0.003604	0.99	18.27	28.67	0.39
arquilocamping	arquillo	240	Pr500	23.35	1114.59	1115.53		1115.59	0.003899	1.10	21.17	29.76	0.42
arquilocamping	arquillo	220	Pr25	8.90	1114.49	1115.06		1115.13	0.010372	1.12	7.96	22.88	0.61
arquilocamping	arquillo	220	Pr50	11.40	1114.49	1115.13		1115.20	0.010606	1.21	9.45	24.66	0.62
arquilocamping	arquillo	220	Pr100	14.45	1114.49	1115.19		1115.28	0.010803	1.29	11.17	26.60	0.64
arquilocamping	arquillo	220	Pr200	18.00	1114.49	1115.26		1115.36	0.010877	1.39	12.97	27.91	0.65
arquilocamping	arquillo	220	Pr500	23.35	1114.49	1115.35		1115.46	0.010819	1.51	15.50	29.37	0.66
arquilocamping	arquillo	200	Pr25	8.90	1114.19	1114.72	1114.68	1114.83	0.021834	1.47	6.05	20.13	0.86
arquilocamping	arquillo	200	Pr50	11.40	1114.19	1114.78	1114.74	1114.91	0.020893	1.55	7.35	21.85	0.85
arquilocamping	arquillo	200	Pr100	14.45	1114.19	1114.85	1114.80	1114.98	0.019966	1.63	8.87	23.73	0.85
arquilocamping	arquillo	200	Pr200	18.00	1114.19	1114.92	1114.86	1115.07	0.019406	1.71	10.53	25.61	0.85
arquilocamping	arquillo	200	Pr500	23.35	1114.19	1114.99	1114.95	1115.17	0.019887	1.85	12.61	27.72	0.88
arquilocamping	arquillo	180	Pr25	8.90	1113.82	1114.27	1114.24	1114.38	0.023129	1.45	6.14	21.84	0.87
arquilocamping	arquillo	180	Pr50	11.40	1113.82	1114.31	1114.29	1114.45	0.025177	1.62	7.04	22.60	0.93
arquilocamping	arquillo	180	Pr100	14.45	1113.82	1114.36	1114.35	1114.52	0.026882	1.79	8.07	23.35	0.97
arquilocamping	arquillo	180	Pr200	18.00	1113.82	1114.41	1114.40	1114.60	0.027877	1.95	9.22	24.14	1.01

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	arquillo	180	Pr500	23.35	1113.82	1114.48	1114.48	1114.71	0.026667	2.09	11.15	25.38	1.01
arquilocamping	arquillo	160	Pr25	8.90	1113.51	1113.97		1114.03	0.012411	1.11	8.02	26.71	0.65
arquilocamping	arquillo	160	Pr50	11.40	1113.51	1114.04		1114.11	0.011025	1.16	9.84	28.10	0.62
arquilocamping	arquillo	160	Pr100	14.45	1113.51	1114.11		1114.18	0.010042	1.21	11.90	29.49	0.61
arquilocamping	arquillo	160	Pr200	18.00	1113.51	1114.18		1114.27	0.009360	1.27	14.13	30.93	0.60
arquilocamping	arquillo	160	Pr500	23.35	1113.51	1114.28	1114.10	1114.37	0.008685	1.35	17.24	32.56	0.59
arquilocamping	arquillo	140	Pr25	8.90	1113.09	1113.83		1113.87	0.005361	0.90	9.86	23.80	0.45
arquilocamping	arquillo	140	Pr50	11.40	1113.09	1113.89		1113.94	0.005899	1.00	11.40	25.33	0.48
arquilocamping	arquillo	140	Pr100	14.45	1113.09	1113.96		1114.02	0.006333	1.09	13.20	27.04	0.50
arquilocamping	arquillo	140	Pr200	18.00	1113.09	1114.04		1114.11	0.006635	1.18	15.24	28.85	0.52
arquilocamping	arquillo	140	Pr500	23.35	1113.09	1114.13		1114.22	0.006841	1.28	18.23	31.26	0.54
arquilocamping	arquillo	120	Pr25	8.90	1113.19	1113.59		1113.68	0.019865	1.35	6.58	23.20	0.81
arquilocamping	arquillo	120	Pr50	11.40	1113.19	1113.66		1113.76	0.016315	1.38	8.25	24.23	0.76
arquilocamping	arquillo	120	Pr100	14.45	1113.19	1113.74		1113.84	0.013852	1.42	10.17	25.33	0.72
arquilocamping	arquillo	120	Pr200	18.00	1113.19	1113.82		1113.93	0.012287	1.47	12.24	26.47	0.69
arquilocamping	arquillo	120	Pr500	23.35	1113.19	1113.92		1114.04	0.010862	1.54	15.19	28.00	0.67
arquilocamping	arquillo	100	Pr25	8.90	1112.70	1113.43		1113.48	0.005619	0.97	9.15	20.44	0.46
arquilocamping	arquillo	100	Pr50	11.40	1112.70	1113.50		1113.56	0.005876	1.06	10.72	21.66	0.48
arquilocamping	arquillo	100	Pr100	14.45	1112.70	1113.58		1113.65	0.006114	1.15	12.54	23.14	0.50
arquilocamping	arquillo	100	Pr200	18.00	1112.70	1113.67		1113.75	0.006241	1.24	14.54	24.48	0.51
arquilocamping	arquillo	100	Pr500	23.35	1112.70	1113.78		1113.87	0.006376	1.34	17.40	26.37	0.53
arquilocamping	arquillo	80	Pr25	8.90	1112.71	1113.32		1113.36	0.005360	0.90	9.90	24.07	0.45
arquilocamping	arquillo	80	Pr50	11.40	1112.71	1113.40		1113.45	0.005220	0.97	11.76	25.02	0.45
arquilocamping	arquillo	80	Pr100	14.45	1112.71	1113.48		1113.54	0.005130	1.04	13.85	26.03	0.46
arquilocamping	arquillo	80	Pr200	18.00	1112.71	1113.57		1113.63	0.005062	1.12	16.12	27.09	0.46
arquilocamping	arquillo	80	Pr500	23.35	1112.71	1113.68		1113.75	0.005014	1.21	19.28	28.45	0.47
arquilocamping	arquillo	60	Pr25	8.90	1112.45	1113.09		1113.19	0.015419	1.41	6.32	17.29	0.74
arquilocamping	arquillo	60	Pr50	11.40	1112.45	1113.15		1113.27	0.016351	1.55	7.37	18.27	0.78
arquilocamping	arquillo	60	Pr100	14.45	1112.45	1113.21		1113.35	0.017270	1.69	8.54	19.30	0.81
arquilocamping	arquillo	60	Pr200	18.00	1112.45	1113.27		1113.44	0.018389	1.84	9.76	20.31	0.85
arquilocamping	arquillo	60	Pr500	23.35	1112.45	1113.35	1113.31	1113.56	0.019702	2.04	11.44	21.50	0.89
arquilocamping	arquillo	40	Pr25	8.90	1112.30	1112.68	1112.66	1112.79	0.026336	1.50	5.92	22.00	0.92
arquilocamping	arquillo	40	Pr50	11.40	1112.30	1112.73	1112.71	1112.86	0.025849	1.63	7.01	22.80	0.94

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arquilocamping	arquillo	40	Pr100	14.45	1112.30	1112.78	1112.77	1112.94	0.025444	1.76	8.23	23.57	0.95
arquilocamping	arquillo	40	Pr200	18.00	1112.30	1112.84	1112.82	1113.02	0.025115	1.88	9.55	24.38	0.96
arquilocamping	arquillo	40	Pr500	23.35	1112.30	1112.91	1112.90	1113.12	0.024740	2.04	11.42	25.47	0.97
arquilocamping	arquillo	20	Pr25	8.90	1111.58	1112.07	1112.07	1112.23	0.029926	1.77	5.04	16.12	1.01
arquilocamping	arquillo	20	Pr50	11.40	1111.58	1112.13	1112.13	1112.31	0.028762	1.88	6.07	17.18	1.01
arquilocamping	arquillo	20	Pr100	14.45	1111.58	1112.20	1112.20	1112.40	0.027719	1.99	7.25	18.27	1.01
arquilocamping	arquillo	20	Pr200	18.00	1111.58	1112.27	1112.27	1112.49	0.026663	2.10	8.58	19.43	1.01
arquilocamping	arquillo	20	Pr500	23.35	1111.58	1112.37	1112.37	1112.62	0.025527	2.22	10.52	21.23	1.01
afluarquillo	afluentearquillo	440	Pr25	1.48	1136.67	1138.28	1137.03	1138.29	0.000027	0.11	13.65	14.67	0.04
afluarquillo	afluentearquillo	440	Pr50	1.90	1136.67	1138.33	1137.07	1138.33	0.000039	0.13	14.30	14.97	0.04
afluarquillo	afluentearquillo	440	Pr100	2.37	1136.67	1138.37	1137.11	1138.37	0.000054	0.16	14.98	15.27	0.05
afluarquillo	afluentearquillo	440	Pr200	3.00	1136.67	1138.42	1137.16	1138.43	0.000075	0.19	15.77	15.61	0.06
afluarquillo	afluentearquillo	440	Pr500	3.90	1136.67	1138.49	1137.22	1138.49	0.000107	0.23	16.77	16.03	0.07
afluarquillo	afluentearquillo	420	Pr25	1.48	1135.20	1138.29		1138.29	0.000002	0.04	38.09	21.53	0.01
afluarquillo	afluentearquillo	420	Pr50	1.90	1135.20	1138.33		1138.33	0.000002	0.05	39.05	21.77	0.01
afluarquillo	afluentearquillo	420	Pr100	2.37	1135.20	1138.37		1138.37	0.000003	0.06	40.03	22.02	0.01
afluarquillo	afluentearquillo	420	Pr200	3.00	1135.20	1138.43		1138.43	0.000005	0.07	41.17	22.30	0.02
afluarquillo	afluentearquillo	420	Pr500	3.90	1135.20	1138.49		1138.49	0.000008	0.09	42.60	22.66	0.02
afluarquillo	afluentearquillo	400	Pr25	1.48	1137.84	1138.28		1138.28	0.001258	0.35	4.27	14.59	0.20
afluarquillo	afluentearquillo	400	Pr50	1.90	1137.84	1138.32		1138.33	0.001369	0.39	4.90	15.10	0.22
afluarquillo	afluentearquillo	400	Pr100	2.37	1137.84	1138.36		1138.37	0.001461	0.43	5.56	15.60	0.23
afluarquillo	afluentearquillo	400	Pr200	3.00	1137.84	1138.41		1138.42	0.001587	0.47	6.34	16.18	0.24
afluarquillo	afluentearquillo	400	Pr500	3.90	1137.84	1138.47		1138.49	0.001746	0.53	7.34	16.89	0.26
afluarquillo	afluentearquillo	380	Pr25	1.48	1137.84	1138.18		1138.22	0.017774	0.92	1.62	9.39	0.70
afluarquillo	afluentearquillo	380	Pr50	1.90	1137.84	1138.21		1138.26	0.017367	0.98	1.95	10.09	0.71
afluarquillo	afluentearquillo	380	Pr100	2.37	1137.84	1138.25		1138.30	0.016285	1.02	2.33	10.86	0.70
afluarquillo	afluentearquillo	380	Pr200	3.00	1137.84	1138.29		1138.35	0.015682	1.07	2.80	11.72	0.70
afluarquillo	afluentearquillo	380	Pr500	3.90	1137.84	1138.34		1138.40	0.015284	1.14	3.42	12.76	0.70
afluarquillo	afluentearquillo	360	Pr25	1.48	1137.68	1138.00		1138.02	0.005970	0.59	2.51	12.43	0.42
afluarquillo	afluentearquillo	360	Pr50	1.90	1137.68	1138.04		1138.06	0.006235	0.65	2.92	12.95	0.44
afluarquillo	afluentearquillo	360	Pr100	2.37	1137.68	1138.07		1138.09	0.006653	0.71	3.33	13.52	0.46
afluarquillo	afluentearquillo	360	Pr200	3.00	1137.68	1138.10		1138.13	0.007093	0.78	3.84	14.20	0.48
afluarquillo	afluentearquillo	360	Pr500	3.90	1137.68	1138.15		1138.19	0.007522	0.86	4.52	15.07	0.50

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
afluarquillo	afluentearquillo	340	Pr25	1.48	1137.63	1137.83	1137.78	1137.85	0.013247	0.68	2.18	15.93	0.59
afluarquillo	afluentearquillo	340	Pr50	1.90	1137.63	1137.85		1137.88	0.013530	0.75	2.53	16.30	0.61
afluarquillo	afluentearquillo	340	Pr100	2.37	1137.63	1137.87		1137.91	0.013605	0.82	2.90	16.65	0.62
afluarquillo	afluentearquillo	340	Pr200	3.00	1137.63	1137.90		1137.94	0.014299	0.91	3.31	17.04	0.65
afluarquillo	afluentearquillo	340	Pr500	3.90	1137.63	1137.93		1137.98	0.014689	1.01	3.89	17.55	0.67
afluarquillo	afluentearquillo	320	Pr25	1.48	1137.20	1137.36	1137.36	1137.41	0.042173	1.02	1.45	13.79	1.00
afluarquillo	afluentearquillo	320	Pr50	1.90	1137.20	1137.38	1137.38	1137.44	0.040421	1.07	1.77	14.98	1.00
afluarquillo	afluentearquillo	320	Pr100	2.37	1137.20	1137.40	1137.40	1137.47	0.040471	1.15	2.06	15.99	1.02
afluarquillo	afluentearquillo	320	Pr200	3.00	1137.20	1137.43	1137.43	1137.50	0.036580	1.22	2.47	17.05	0.99
afluarquillo	afluentearquillo	320	Pr500	3.90	1137.20	1137.45	1137.45	1137.54	0.035001	1.33	2.98	17.62	1.00
afluarquillo	afluentearquillo	300	Pr25	1.48	1135.65	1135.75	1135.79	1135.88	0.177881	1.59	0.94	13.72	1.92
afluarquillo	afluentearquillo	300	Pr50	1.90	1135.65	1135.76	1135.81	1135.92	0.188765	1.76	1.09	14.31	2.01
afluarquillo	afluentearquillo	300	Pr100	2.37	1135.65	1135.77	1135.83	1135.95	0.185046	1.88	1.27	15.00	2.03
afluarquillo	afluentearquillo	300	Pr200	3.00	1135.65	1135.78	1135.85	1136.02	0.216409	2.14	1.42	15.52	2.23
afluarquillo	afluentearquillo	300	Pr500	3.90	1135.65	1135.80	1135.88	1136.09	0.223442	2.39	1.66	16.06	2.32
afluarquillo	afluentearquillo	280	Pr25	1.48	1133.88	1134.10	1134.11	1134.18	0.048977	1.21	1.22	9.95	1.11
afluarquillo	afluentearquillo	280	Pr50	1.90	1133.88	1134.13	1134.14	1134.21	0.047510	1.28	1.49	10.95	1.11
afluarquillo	afluentearquillo	280	Pr100	2.37	1133.88	1134.15	1134.16	1134.25	0.047904	1.39	1.71	11.48	1.13
afluarquillo	afluentearquillo	280	Pr200	3.00	1133.88	1134.17	1134.19	1134.29	0.044779	1.50	2.02	12.10	1.13
afluarquillo	afluentearquillo	280	Pr500	3.90	1133.88	1134.21	1134.23	1134.34	0.044367	1.65	2.40	12.80	1.15
afluarquillo	afluentearquillo	260	Pr25	1.48	1132.99	1133.22	1133.17	1133.26	0.017099	0.89	1.66	9.78	0.69
afluarquillo	afluentearquillo	260	Pr50	1.90	1132.99	1133.25	1133.20	1133.29	0.017160	0.96	1.98	10.43	0.70
afluarquillo	afluentearquillo	260	Pr100	2.37	1132.99	1133.28	1133.23	1133.33	0.017444	1.03	2.29	11.03	0.72
afluarquillo	afluentearquillo	260	Pr200	3.00	1132.99	1133.31	1133.26	1133.37	0.017555	1.12	2.68	11.76	0.74
afluarquillo	afluentearquillo	260	Pr500	3.90	1132.99	1133.35	1133.30	1133.43	0.017621	1.22	3.22	12.69	0.75
afluarquillo	afluentearquillo	240	Pr25	1.48	1132.42	1132.68	1132.68	1132.76	0.037826	1.25	1.18	7.57	1.01
afluarquillo	afluentearquillo	240	Pr50	1.90	1132.42	1132.71	1132.71	1132.81	0.036408	1.34	1.42	8.02	1.01
afluarquillo	afluentearquillo	240	Pr100	2.37	1132.42	1132.75	1132.75	1132.85	0.034815	1.41	1.68	8.49	1.01
afluarquillo	afluentearquillo	240	Pr200	3.00	1132.42	1132.78	1132.78	1132.90	0.033774	1.49	2.01	9.02	1.01
afluarquillo	afluentearquillo	240	Pr500	3.90	1132.42	1132.83	1132.83	1132.96	0.032269	1.59	2.45	9.64	1.01
afluarquillo	afluentearquillo	220	Pr25	1.48	1131.76	1132.30	1132.09	1132.31	0.002872	0.50	2.93	10.59	0.31
afluarquillo	afluentearquillo	220	Pr50	1.90	1131.76	1132.34	1132.12	1132.35	0.003168	0.56	3.39	11.24	0.33
afluarquillo	afluentearquillo	220	Pr100	2.37	1131.76	1132.38	1132.16	1132.40	0.003381	0.61	3.87	11.80	0.34
afluarquillo	afluentearquillo	220	Pr200	3.00	1131.76	1132.43	1132.20	1132.45	0.003653	0.68	4.44	12.39	0.36

HEC-RAS Plan: pl2mx (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
afluarquillo	afluentearquillo	220	Pr500	3.90	1131.76	1132.48	1132.25	1132.51	0.003982	0.75	5.18	13.08	0.38
afluarquillo	afluentearquillo	200	Pr25	1.48	1131.91	1132.25		1132.26	0.001848	0.38	3.85	15.08	0.24
afluarquillo	afluentearquillo	200	Pr50	1.90	1131.91	1132.29		1132.30	0.002007	0.43	4.44	15.76	0.26
afluarquillo	afluentearquillo	200	Pr100	2.37	1131.91	1132.33		1132.34	0.002118	0.47	5.08	16.47	0.27
afluarquillo	afluentearquillo	200	Pr200	3.00	1131.91	1132.38		1132.39	0.002288	0.51	5.83	17.25	0.28
afluarquillo	afluentearquillo	200	Pr500	3.90	1131.91	1132.43		1132.45	0.002458	0.57	6.80	18.06	0.30
afluarquillo	afluentearquillo	180	Pr25	1.48	1131.87	1132.10	1132.09	1132.16	0.036000	1.09	1.36	10.37	0.96
afluarquillo	afluentearquillo	180	Pr50	1.90	1131.87	1132.12	1132.12	1132.19	0.037063	1.18	1.61	11.12	0.99
afluarquillo	afluentearquillo	180	Pr100	2.37	1131.87	1132.14	1132.14	1132.23	0.037371	1.26	1.87	11.73	1.01
afluarquillo	afluentearquillo	180	Pr200	3.00	1131.87	1132.18	1132.18	1132.27	0.035096	1.33	2.25	12.42	1.00
afluarquillo	afluentearquillo	180	Pr500	3.90	1131.87	1132.21	1132.21	1132.32	0.034665	1.44	2.71	13.15	1.01
afluarquillo	afluentearquillo	160	Pr25	1.48	1131.12	1131.34	1131.34	1131.41	0.037965	1.21	1.22	8.23	1.00
afluarquillo	afluentearquillo	160	Pr50	1.90	1131.12	1131.37	1131.37	1131.45	0.036618	1.29	1.47	8.77	1.01
afluarquillo	afluentearquillo	160	Pr100	2.37	1131.12	1131.40	1131.40	1131.49	0.035760	1.37	1.73	9.30	1.01
afluarquillo	afluentearquillo	160	Pr200	3.00	1131.12	1131.43	1131.43	1131.54	0.035950	1.47	2.04	9.89	1.03
afluarquillo	afluentearquillo	160	Pr500	3.90	1131.12	1131.47	1131.48	1131.60	0.037160	1.60	2.43	10.59	1.07
afluarquillo	afluentearquillo	140	Pr25	1.48	1129.93	1130.32	1130.23	1130.34	0.009029	0.72	2.05	10.25	0.51
afluarquillo	afluentearquillo	140	Pr50	1.90	1129.93	1130.35	1130.26	1130.38	0.009528	0.79	2.42	11.02	0.54
afluarquillo	afluentearquillo	140	Pr100	2.37	1129.93	1130.39	1130.29	1130.42	0.009744	0.84	2.81	11.72	0.55
afluarquillo	afluentearquillo	140	Pr200	3.00	1129.93	1130.43	1130.32	1130.47	0.010108	0.92	3.27	12.38	0.57
afluarquillo	afluentearquillo	140	Pr500	3.90	1129.93	1130.47	1130.37	1130.52	0.010611	1.01	3.87	13.19	0.59
afluarquillo	afluentearquillo	120	Pr25	1.48	1129.69	1129.94	1129.94	1130.01	0.040198	1.17	1.26	9.31	1.02
afluarquillo	afluentearquillo	120	Pr50	1.90	1129.69	1129.96	1129.96	1130.04	0.038380	1.23	1.54	10.18	1.01
afluarquillo	afluentearquillo	120	Pr100	2.37	1129.69	1129.99	1129.99	1130.08	0.036983	1.29	1.84	11.03	1.01
afluarquillo	afluentearquillo	120	Pr200	3.00	1129.69	1130.02	1130.02	1130.12	0.035932	1.36	2.21	12.01	1.01
afluarquillo	afluentearquillo	120	Pr500	3.90	1129.69	1130.06	1130.06	1130.17	0.034338	1.44	2.70	12.98	1.01
afluarquillo	afluentearquillo	100	Pr25	1.48	1128.95	1129.13	1129.13	1129.19	0.041431	1.08	1.37	11.82	1.01
afluarquillo	afluentearquillo	100	Pr50	1.90	1128.95	1129.15	1129.15	1129.22	0.044122	1.19	1.59	12.35	1.06
afluarquillo	afluentearquillo	100	Pr100	2.37	1128.95	1129.16	1129.17	1129.25	0.046140	1.30	1.83	12.89	1.10
afluarquillo	afluentearquillo	100	Pr200	3.00	1128.95	1129.19	1129.20	1129.29	0.048746	1.42	2.11	13.52	1.15
afluarquillo	afluentearquillo	100	Pr500	3.90	1128.95	1129.21	1129.24	1129.34	0.051215	1.57	2.49	14.32	1.20
afluarquillo	afluentearquillo	80	Pr25	1.48	1128.12	1128.35	1128.33	1128.40	0.022624	0.92	1.61	11.12	0.77
afluarquillo	afluentearquillo	80	Pr50	1.90	1128.12	1128.32	1128.35	1128.44	0.074708	1.51	1.26	10.21	1.37

HEC-RAS Plan: pl2mx (Continued)

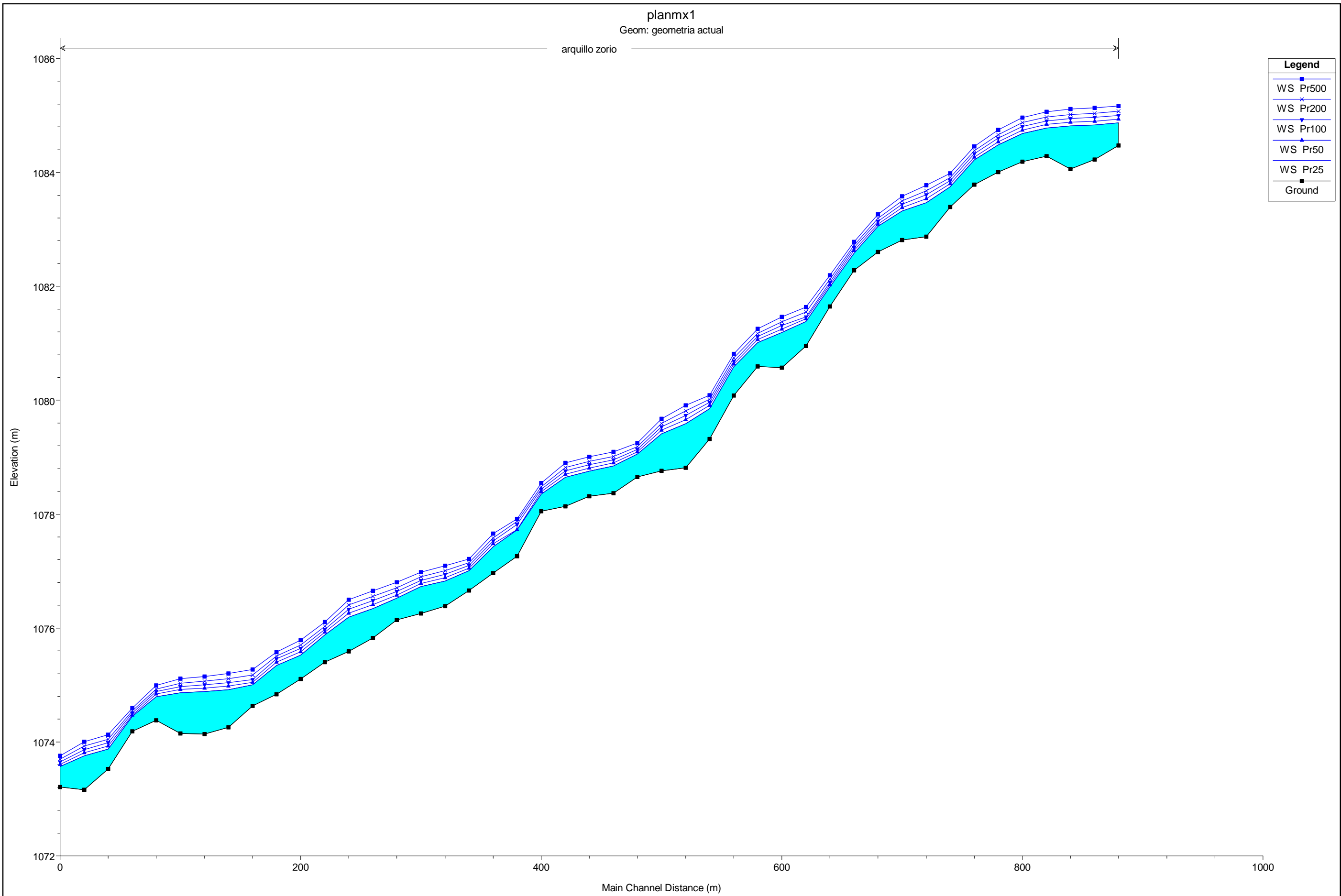
River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
afluarquillo	afluentearquillo	80	Pr100	2.37	1128.12	1128.41	1128.38	1128.46	0.023166	1.07	2.22	12.45	0.81
afluarquillo	afluentearquillo	80	Pr200	3.00	1128.12	1128.43	1128.41	1128.50	0.024186	1.16	2.58	13.18	0.84
afluarquillo	afluentearquillo	80	Pr500	3.90	1128.12	1128.47	1128.45	1128.55	0.024564	1.26	3.09	14.15	0.86
afluarquillo	afluentearquillo	60	Pr25	1.48	1127.54	1127.74	1127.74	1127.81	0.039657	1.16	1.28	9.58	1.01
afluarquillo	afluentearquillo	60	Pr50	1.90	1127.54	1127.77	1127.77	1127.85	0.038425	1.23	1.54	10.26	1.01
afluarquillo	afluentearquillo	60	Pr100	2.37	1127.54	1127.79	1127.79	1127.88	0.037180	1.30	1.83	10.93	1.01
afluarquillo	afluentearquillo	60	Pr200	3.00	1127.54	1127.83	1127.83	1127.92	0.035558	1.37	2.19	11.73	1.01
afluarquillo	afluentearquillo	60	Pr500	3.90	1127.54	1127.87	1127.87	1127.98	0.034202	1.45	2.68	12.71	1.01
afluarquillo	afluentearquillo	40	Pr25	1.48	1126.63	1126.89	1126.90	1126.97	0.044871	1.23	1.21	9.08	1.07
afluarquillo	afluentearquillo	40	Pr50	1.90	1126.63	1126.91	1126.92	1127.00	0.046172	1.33	1.43	9.71	1.11
afluarquillo	afluentearquillo	40	Pr100	2.37	1126.63	1126.94	1126.95	1127.04	0.048230	1.44	1.65	10.29	1.15
afluarquillo	afluentearquillo	40	Pr200	3.00	1126.63	1126.96	1126.98	1127.08	0.049753	1.55	1.93	11.00	1.18
afluarquillo	afluentearquillo	40	Pr500	3.90	1126.63	1126.99	1127.02	1127.14	0.052065	1.70	2.30	11.85	1.23
afluarquillo	afluentearquillo	20	Pr25	1.48	1125.63	1125.88	1125.90	1125.97	0.055077	1.33	1.11	8.65	1.18
afluarquillo	afluentearquillo	20	Pr50	1.90	1125.63	1125.91	1125.93	1126.01	0.053379	1.41	1.35	9.35	1.19
afluarquillo	afluentearquillo	20	Pr100	2.37	1125.63	1125.94	1125.96	1126.05	0.051132	1.48	1.61	10.06	1.18
afluarquillo	afluentearquillo	20	Pr200	3.00	1125.63	1125.97	1125.99	1126.09	0.049737	1.56	1.92	10.88	1.18
afluarquillo	afluentearquillo	20	Pr500	3.90	1125.63	1126.01	1126.03	1126.14	0.047574	1.65	2.37	11.93	1.18
afluarquillo	afluentearquillo	3.14	Pr25	1.48	1124.87	1125.12	1125.13	1125.20	0.052433	1.31	1.13	8.63	1.16
afluarquillo	afluentearquillo	3.14	Pr50	1.90	1124.87	1125.16	1125.16	1125.24	0.039301	1.27	1.50	9.72	1.03
afluarquillo	afluentearquillo	3.14	Pr100	2.37	1124.87	1125.18	1125.19	1125.27	0.040696	1.36	1.74	10.37	1.06
afluarquillo	afluentearquillo	3.14	Pr200	3.00	1124.87	1125.21	1125.22	1125.32	0.041976	1.47	2.04	11.13	1.09
afluarquillo	afluentearquillo	3.14	Pr500	3.90	1124.87	1125.24	1125.26	1125.37	0.043986	1.60	2.43	12.04	1.14

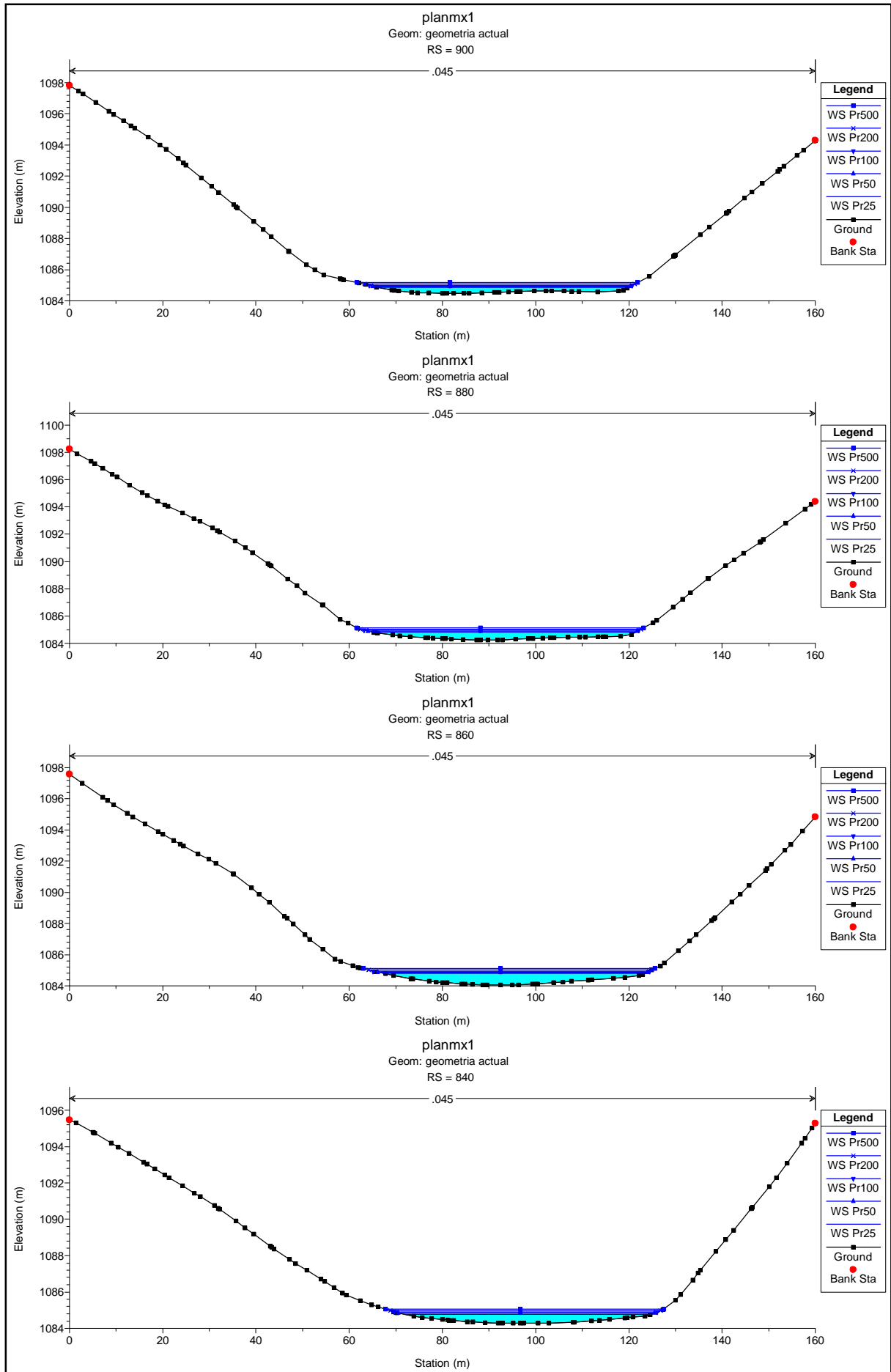
ANEXO 2. LISTADOS RESULTADOS HIDRÁULICOS. HEC-RAS

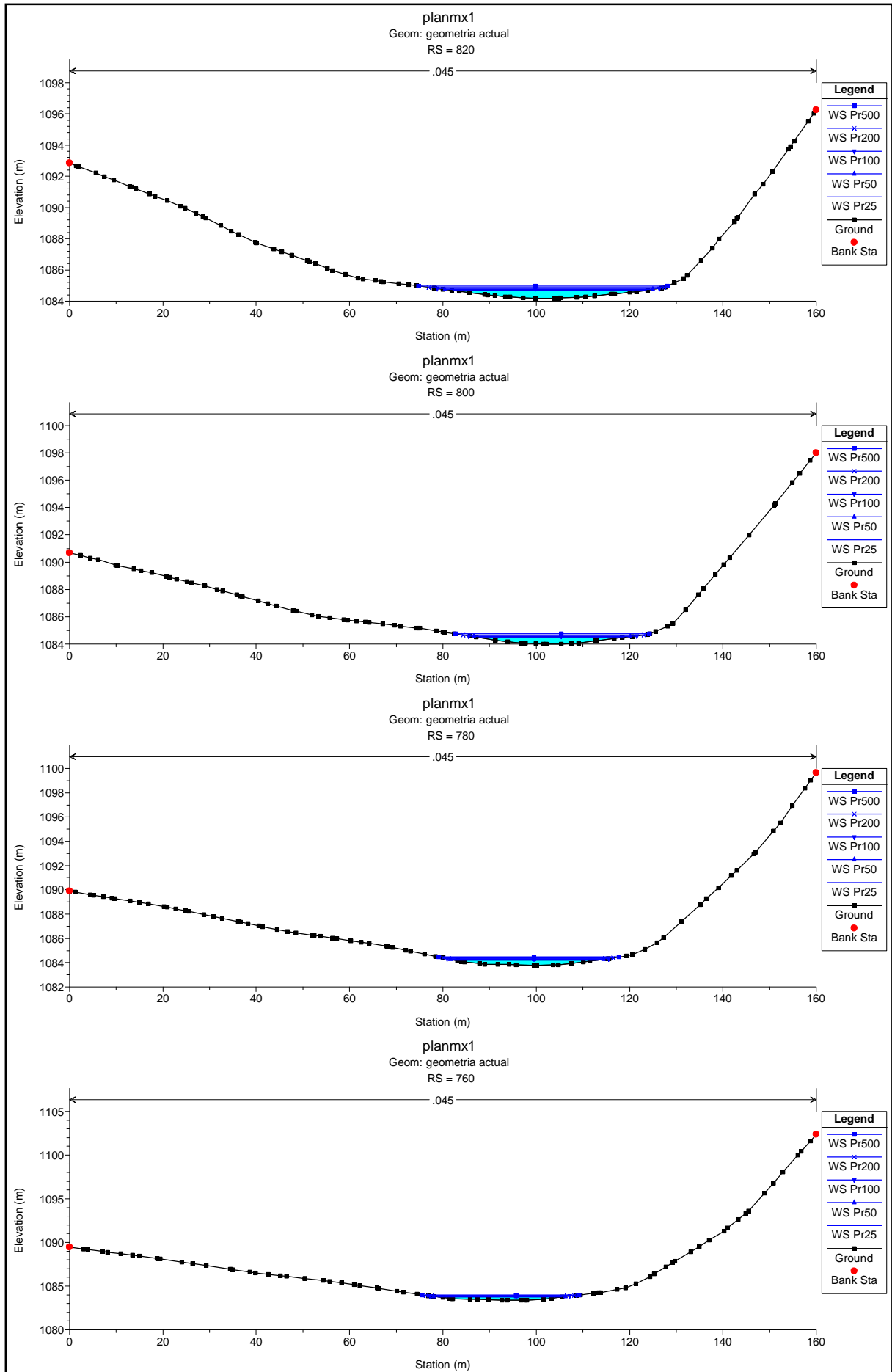
- **ZORÍO**

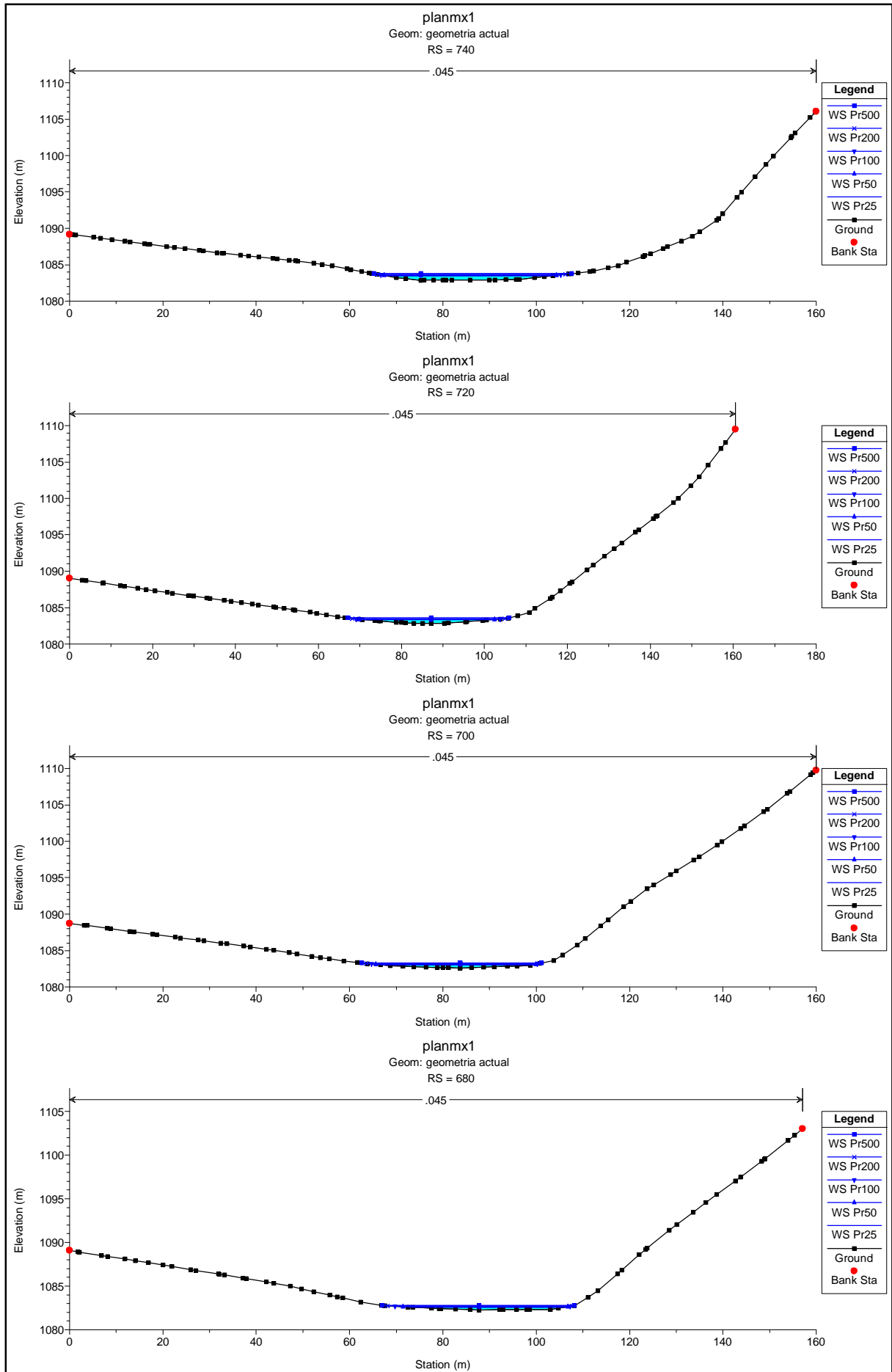


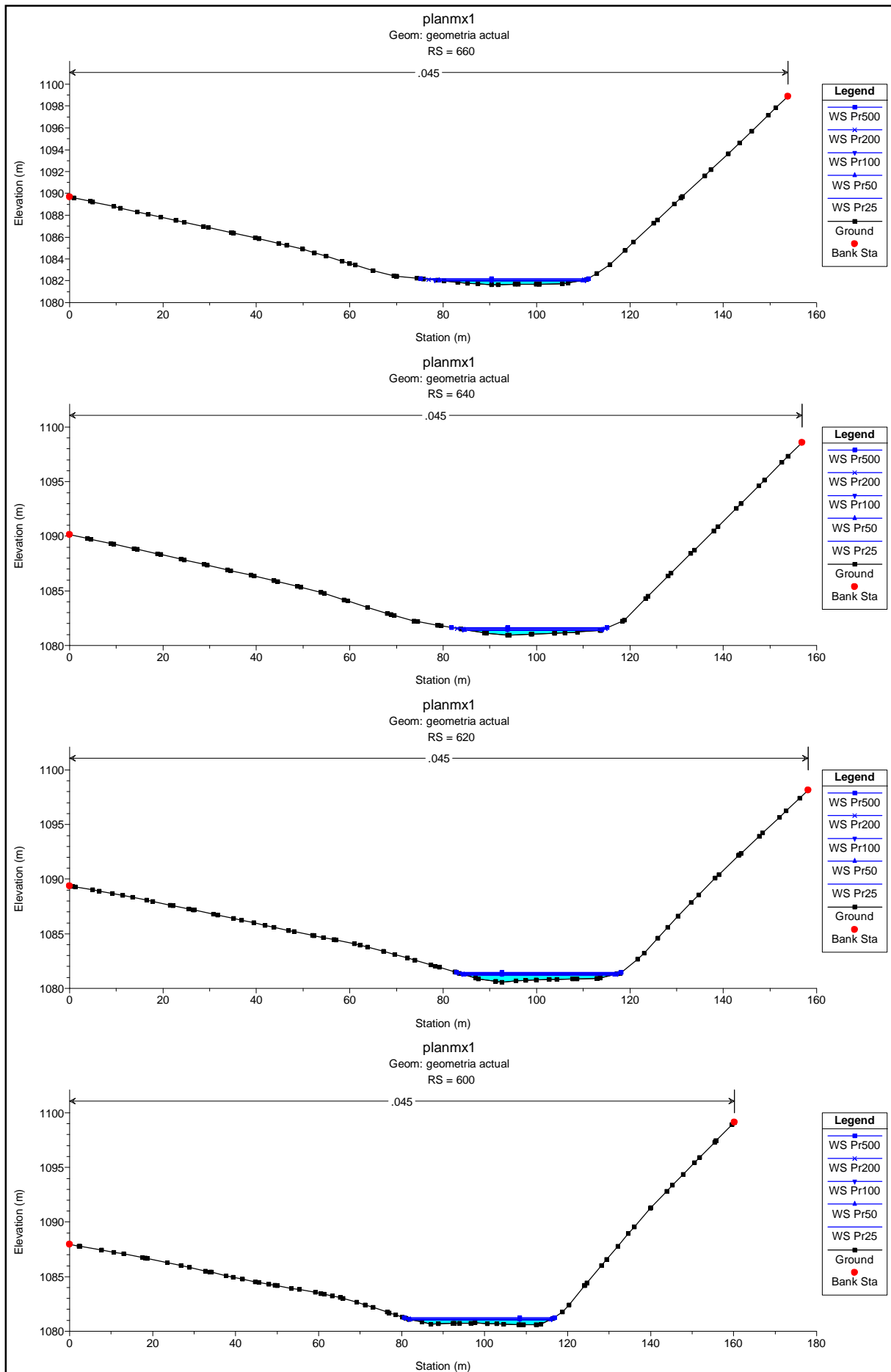
1 cm Horiz. = 35 m 1 cm Vert. = 35 m

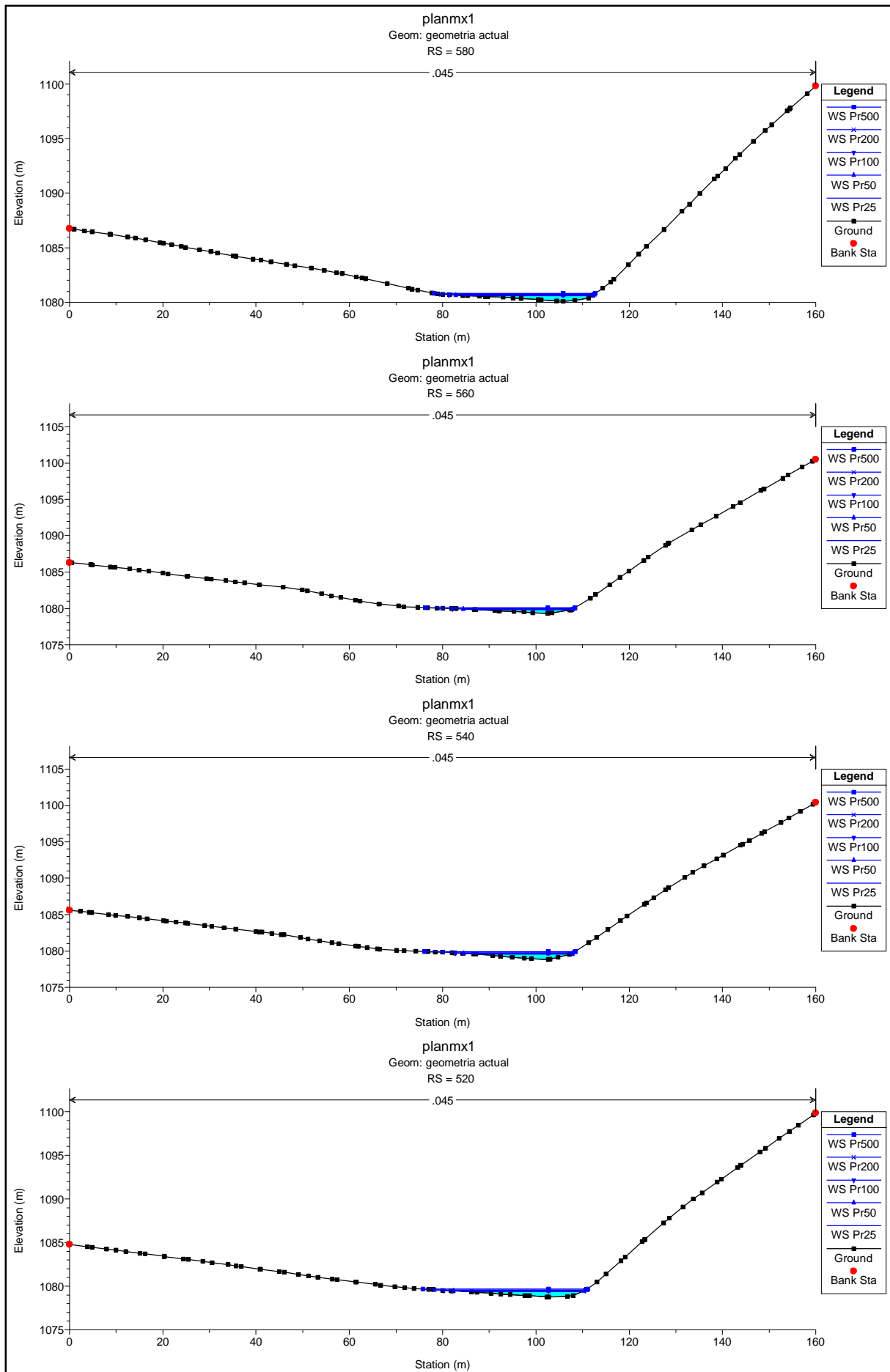


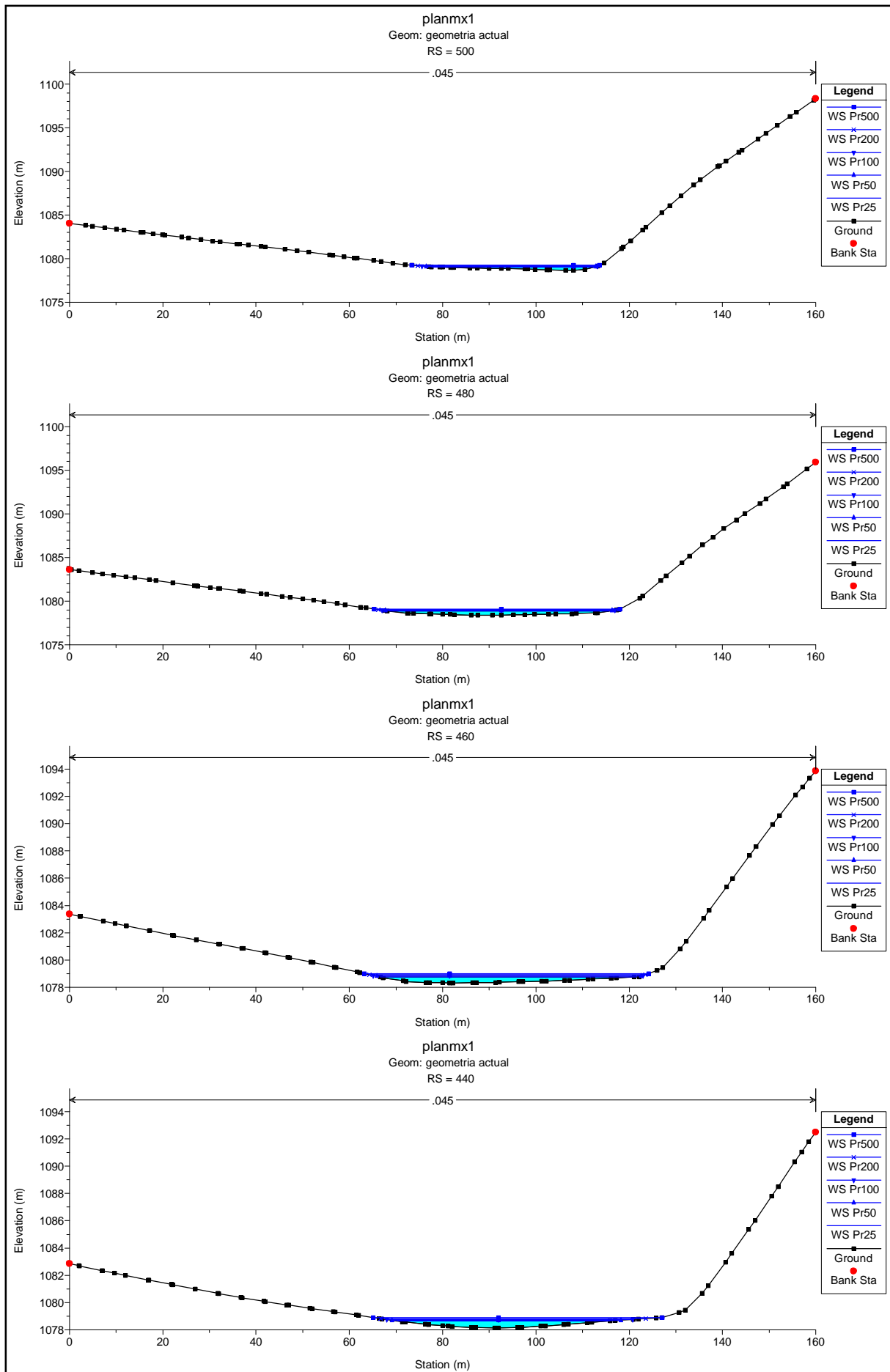


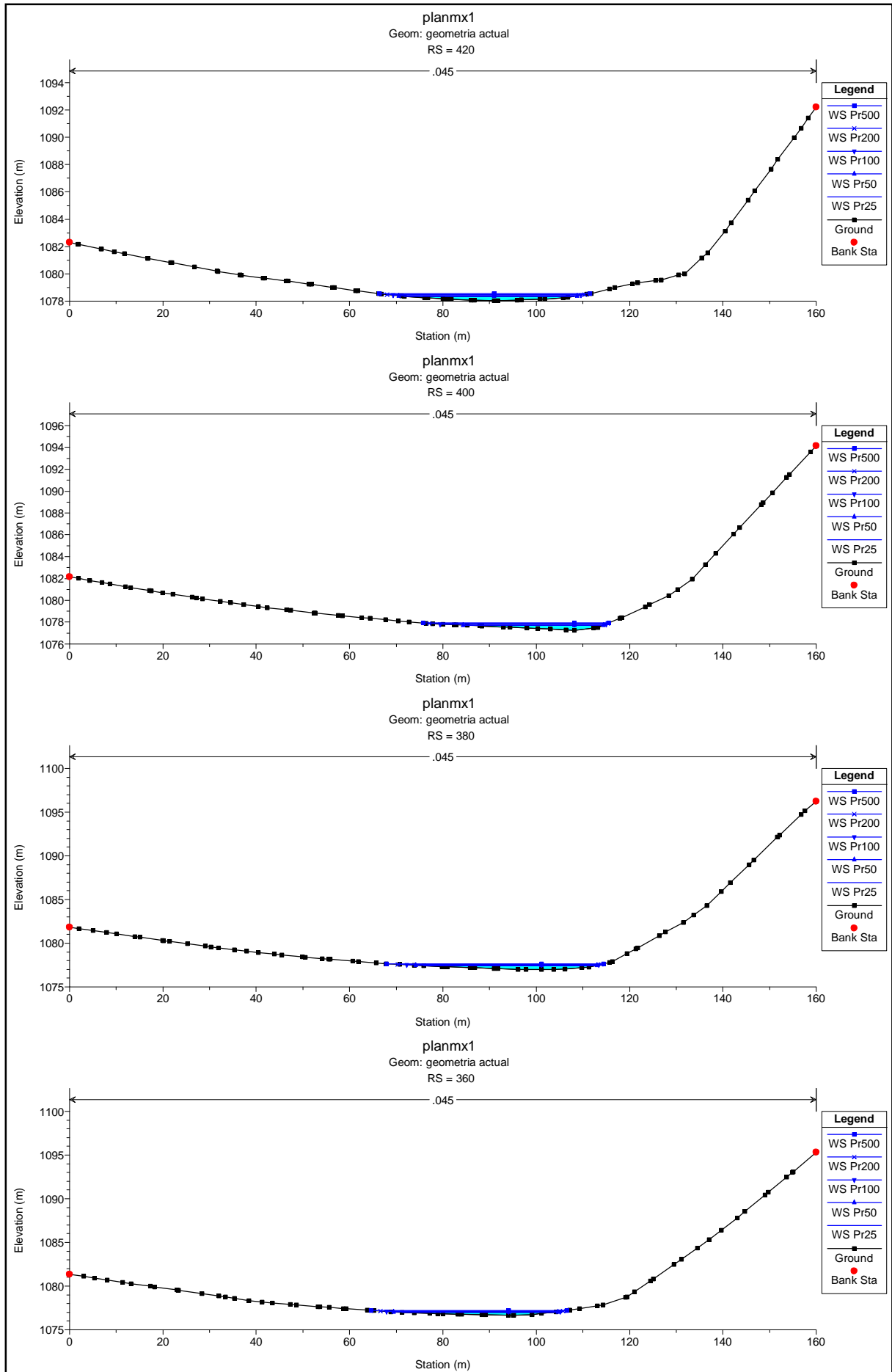


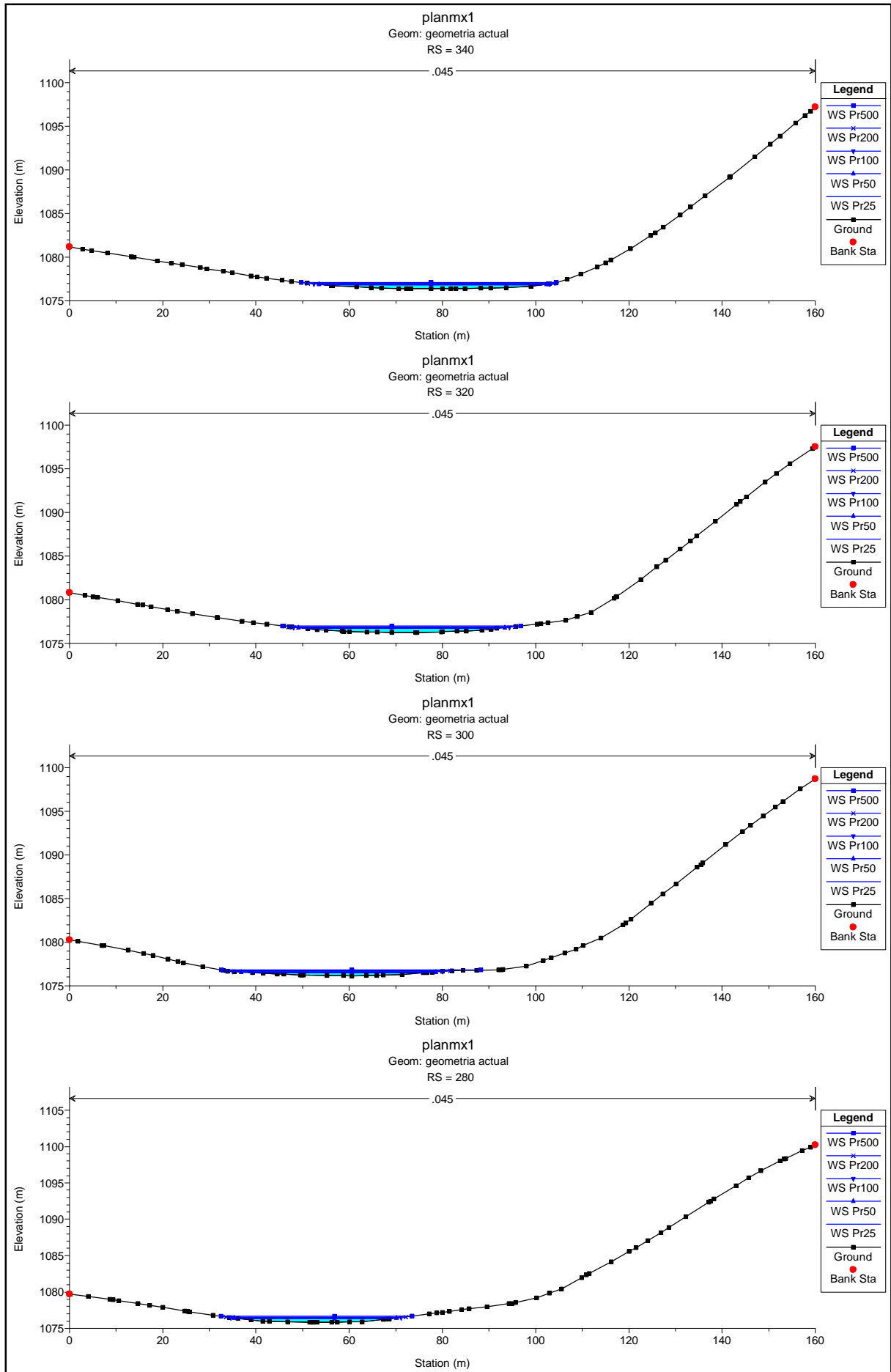


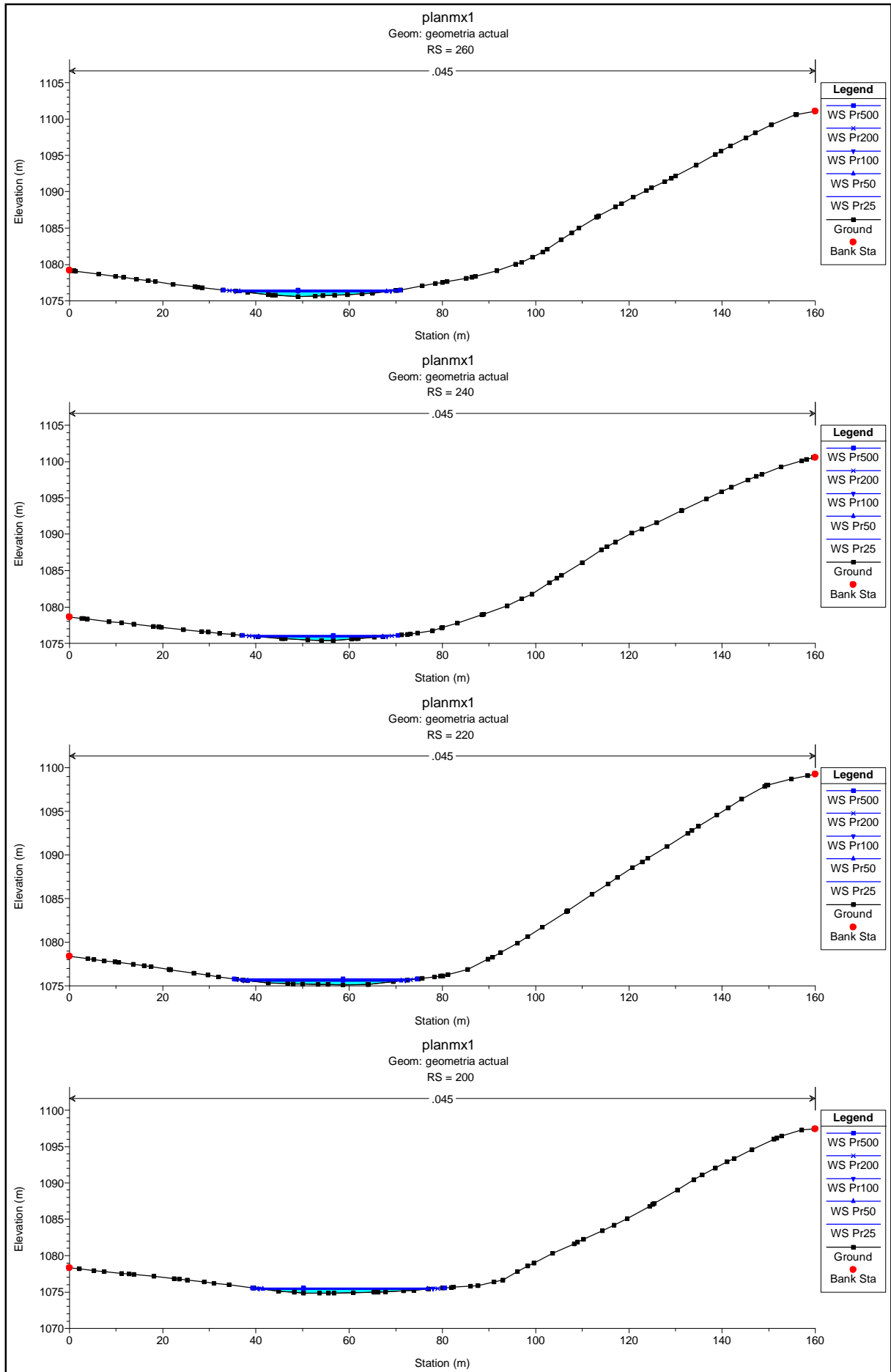


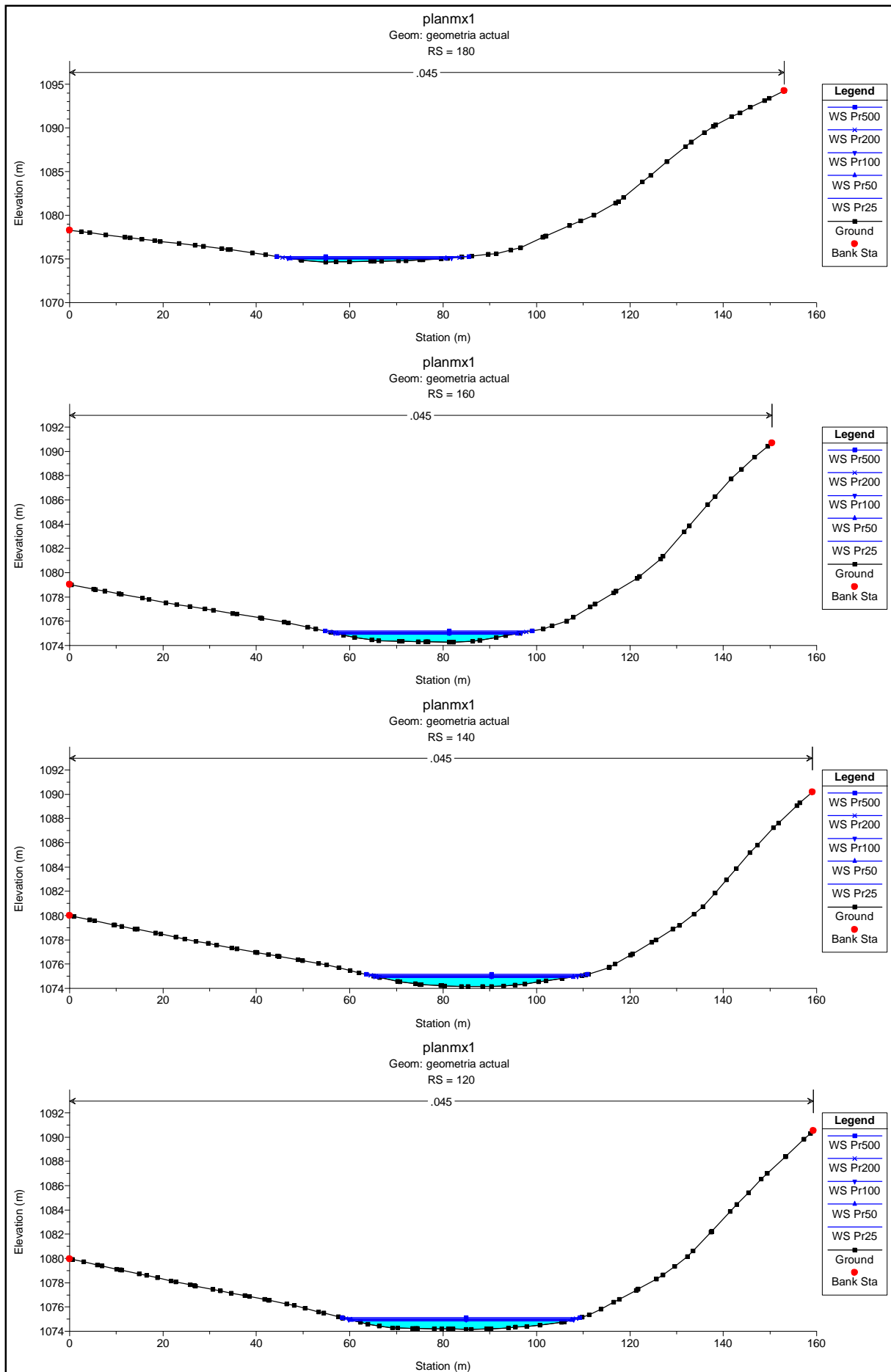


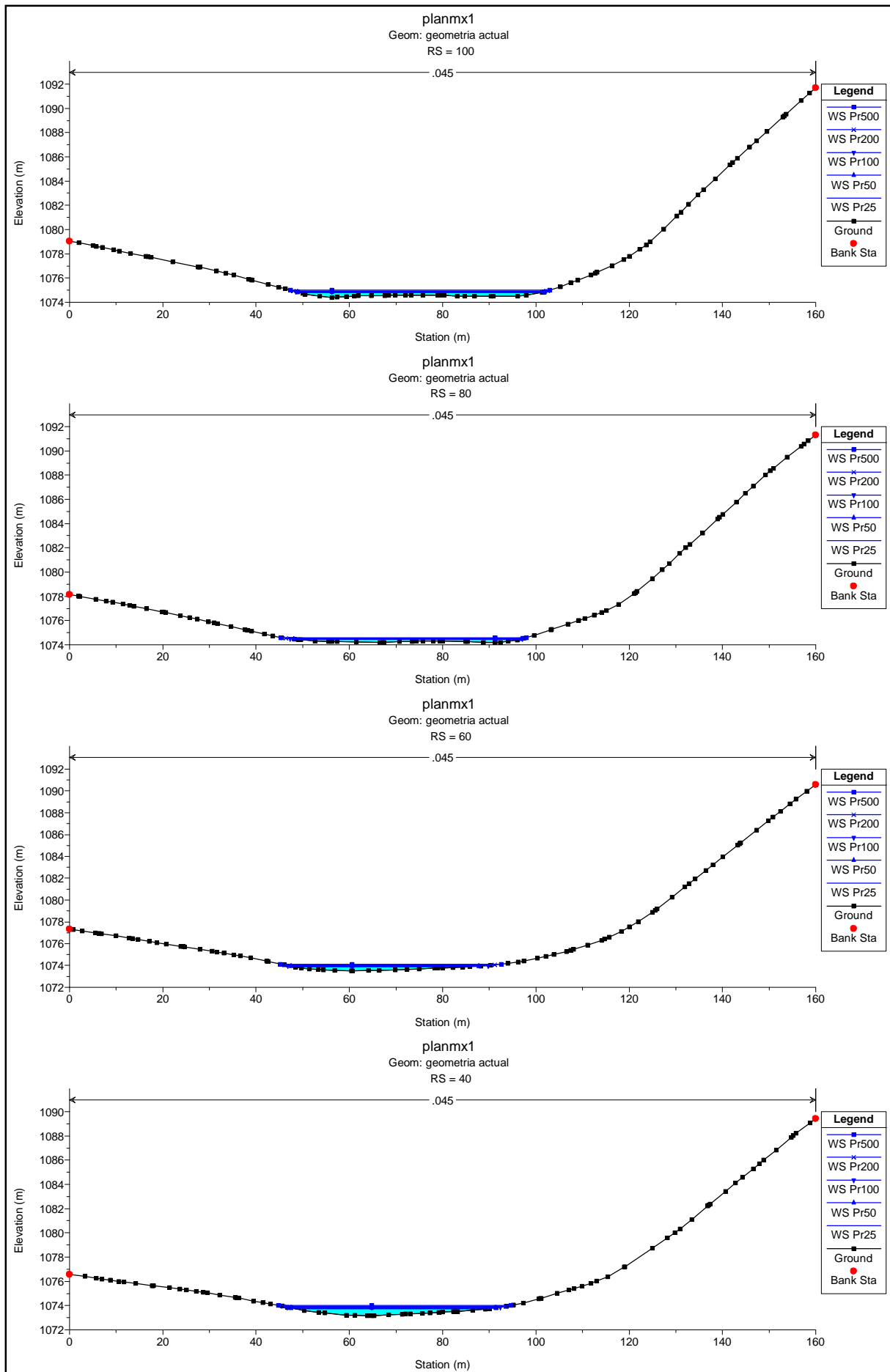


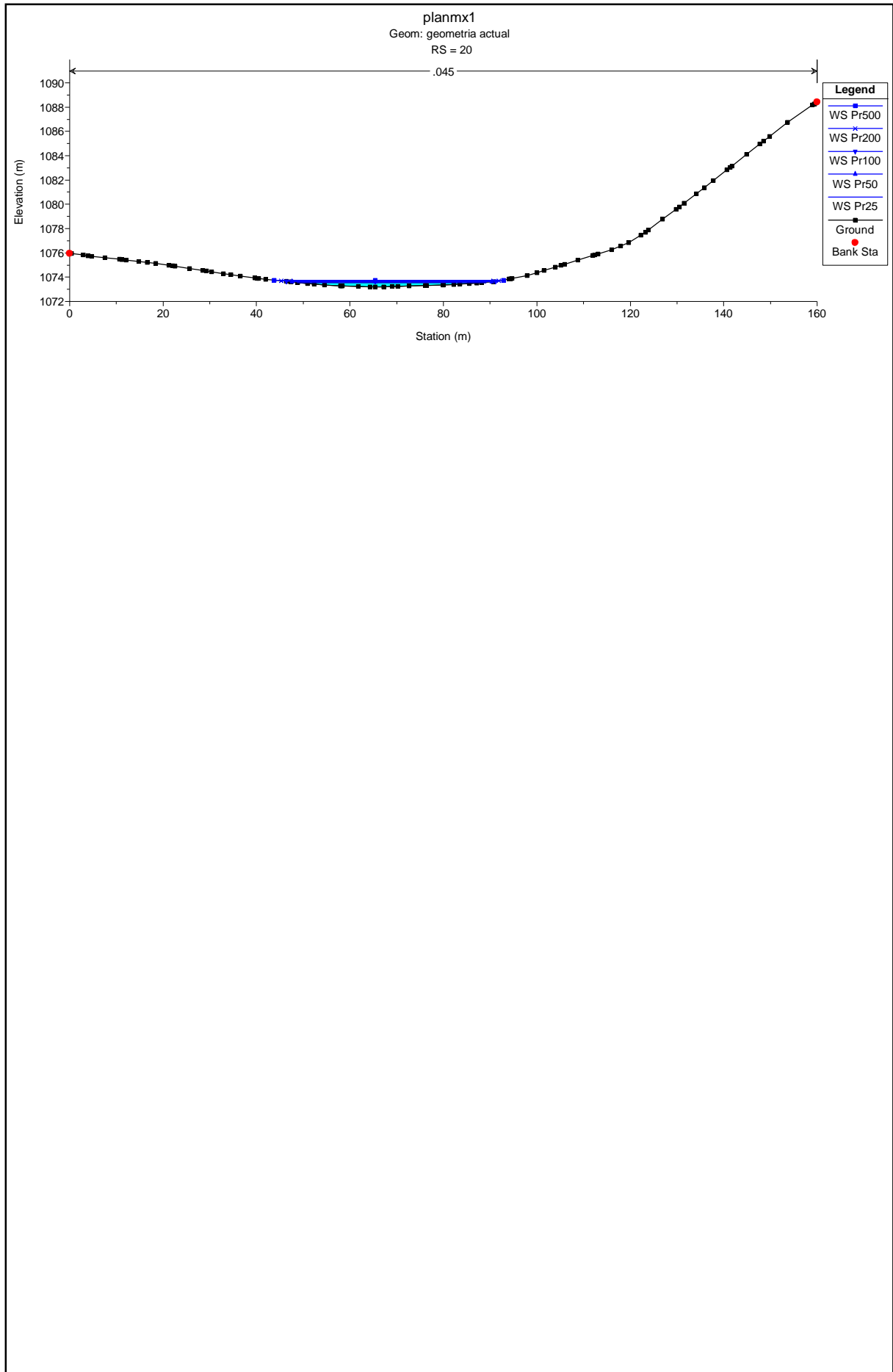












HEC-RAS Plan: plmx1 River: arquillo Reach: zorio

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
zorio	900	Pr25	10.60	1084.47	1084.87	1084.73	1084.89	0.005048	0.68	15.48	54.17	0.41
zorio	900	Pr50	13.60	1084.47	1084.94	1084.76	1084.96	0.004296	0.71	19.03	55.32	0.39
zorio	900	Pr100	17.10	1084.47	1085.00	1084.80	1085.03	0.003844	0.75	22.77	56.51	0.38
zorio	900	Pr200	21.40	1084.47	1085.07	1084.83	1085.11	0.003558	0.79	26.92	57.92	0.37
zorio	900	Pr500	27.80	1084.47	1085.17	1084.88	1085.21	0.003357	0.85	32.55	60.19	0.37
zorio	880	Pr25	10.60	1084.23	1084.83		1084.84	0.001383	0.46	23.24	56.65	0.23
zorio	880	Pr50	13.60	1084.23	1084.90		1084.91	0.001408	0.50	27.06	57.78	0.23
zorio	880	Pr100	17.10	1084.23	1084.97		1084.98	0.001448	0.55	31.03	58.94	0.24
zorio	880	Pr200	21.40	1084.23	1085.04		1085.06	0.001505	0.60	35.39	60.19	0.25
zorio	880	Pr500	27.80	1084.23	1085.14		1085.16	0.001577	0.67	41.20	61.55	0.26
zorio	860	Pr25	10.60	1084.06	1084.82		1084.82	0.000675	0.37	28.76	56.33	0.16
zorio	860	Pr50	13.60	1084.06	1084.88		1084.89	0.000768	0.42	32.48	57.89	0.18
zorio	860	Pr100	17.10	1084.06	1084.95		1084.96	0.000858	0.47	36.39	59.29	0.19
zorio	860	Pr200	21.40	1084.06	1085.02		1085.03	0.000956	0.53	40.69	60.70	0.21
zorio	860	Pr500	27.80	1084.06	1085.11		1085.13	0.001082	0.60	46.45	62.62	0.22
zorio	840	Pr25	10.60	1084.28	1084.78		1084.80	0.002705	0.57	18.52	53.15	0.31
zorio	840	Pr50	13.60	1084.28	1084.84		1084.86	0.002674	0.62	21.88	54.96	0.31
zorio	840	Pr100	17.10	1084.28	1084.91		1084.93	0.002652	0.67	25.43	56.43	0.32
zorio	840	Pr200	21.40	1084.28	1084.98		1085.00	0.002670	0.73	29.34	57.92	0.33
zorio	840	Pr500	27.80	1084.28	1085.06		1085.10	0.002714	0.80	34.57	59.65	0.34
zorio	820	Pr25	10.60	1084.19	1084.68		1084.72	0.006249	0.81	13.04	41.44	0.46
zorio	820	Pr50	13.60	1084.19	1084.75		1084.78	0.006114	0.87	15.69	44.54	0.47
zorio	820	Pr100	17.10	1084.19	1084.81		1084.85	0.006001	0.92	18.60	47.65	0.47
zorio	820	Pr200	21.40	1084.19	1084.88		1084.92	0.005895	0.98	21.89	50.42	0.47
zorio	820	Pr500	27.80	1084.19	1084.96		1085.02	0.005743	1.05	26.40	53.36	0.48
zorio	800	Pr25	10.60	1084.01	1084.48		1084.55	0.012019	1.11	9.55	31.06	0.64
zorio	800	Pr50	13.60	1084.01	1084.54		1084.61	0.012034	1.19	11.43	33.51	0.65
zorio	800	Pr100	17.10	1084.01	1084.60		1084.68	0.012059	1.27	13.50	36.05	0.66
zorio	800	Pr200	21.40	1084.01	1084.66		1084.76	0.012128	1.35	15.87	38.80	0.67
zorio	800	Pr500	27.80	1084.01	1084.75		1084.85	0.011917	1.45	19.19	41.58	0.68

HEC-RAS Plan: plmx1 River: arquillo Reach: zorio (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
zorio	780	Pr25	10.60	1083.79	1084.22	1084.14	1084.29	0.013828	1.16	9.15	31.01	0.68
zorio	780	Pr50	13.60	1083.79	1084.27	1084.19	1084.35	0.014089	1.26	10.81	32.77	0.70
zorio	780	Pr100	17.10	1083.79	1084.33	1084.24	1084.42	0.014121	1.35	12.67	34.64	0.71
zorio	780	Pr200	21.40	1083.79	1084.39	1084.29	1084.49	0.014292	1.45	14.73	36.39	0.73
zorio	780	Pr500	27.80	1083.79	1084.46	1084.37	1084.59	0.014609	1.58	17.54	38.67	0.75
zorio	760	Pr25	10.60	1083.39	1083.75	1083.75	1083.88	0.031960	1.58	6.69	26.56	1.01
zorio	760	Pr50	13.60	1083.39	1083.80	1083.80	1083.95	0.030540	1.68	8.08	28.28	1.01
zorio	760	Pr100	17.10	1083.39	1083.85	1083.85	1084.02	0.029434	1.78	9.60	30.01	1.01
zorio	760	Pr200	21.40	1083.39	1083.91	1083.91	1084.09	0.028599	1.89	11.32	31.73	1.01
zorio	760	Pr500	27.80	1083.39	1083.98	1083.98	1084.19	0.027285	2.02	13.77	33.73	1.01
zorio	740	Pr25	10.60	1082.87	1083.47	1083.18	1083.49	0.002584	0.66	15.96	35.35	0.32
zorio	740	Pr50	13.60	1082.87	1083.54	1083.23	1083.57	0.002769	0.74	18.48	36.94	0.33
zorio	740	Pr100	17.10	1082.87	1083.61	1083.28	1083.64	0.002985	0.81	21.07	38.50	0.35
zorio	740	Pr200	21.40	1082.87	1083.68	1083.33	1083.72	0.003223	0.89	23.96	40.17	0.37
zorio	740	Pr500	27.80	1082.87	1083.78	1083.41	1083.83	0.003530	1.00	27.87	42.35	0.39
zorio	720	Pr25	10.60	1082.81	1083.33		1083.39	0.012116	1.12	9.42	30.19	0.64
zorio	720	Pr50	13.60	1082.81	1083.38		1083.46	0.012152	1.21	11.28	32.63	0.65
zorio	720	Pr100	17.10	1082.81	1083.44		1083.53	0.012220	1.29	13.25	34.74	0.67
zorio	720	Pr200	21.40	1082.81	1083.50		1083.60	0.012466	1.39	15.41	36.76	0.68
zorio	720	Pr500	27.80	1082.81	1083.58		1083.70	0.012605	1.51	18.37	38.85	0.70
zorio	700	Pr25	10.60	1082.60	1083.05		1083.12	0.015040	1.16	9.17	33.15	0.70
zorio	700	Pr50	13.60	1082.60	1083.09		1083.18	0.016150	1.29	10.57	34.33	0.74
zorio	700	Pr100	17.10	1082.60	1083.14		1083.24	0.016910	1.41	12.13	35.61	0.77
zorio	700	Pr200	21.40	1082.60	1083.19		1083.31	0.016851	1.51	14.13	37.09	0.78
zorio	700	Pr500	27.80	1082.60	1083.26		1083.40	0.017063	1.66	16.73	38.56	0.81
zorio	680	Pr25	10.60	1082.28	1082.58	1082.58	1082.69	0.032692	1.46	7.24	32.90	1.00
zorio	680	Pr50	13.60	1082.28	1082.63	1082.63	1082.75	0.029327	1.52	8.94	35.32	0.97
zorio	680	Pr100	17.10	1082.28	1082.68	1082.67	1082.81	0.028154	1.61	10.64	37.55	0.96
zorio	680	Pr200	21.40	1082.28	1082.72	1082.72	1082.88	0.028652	1.73	12.38	39.70	0.99

HEC-RAS Plan: plmx1 River: arquillo Reach: zorio (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
zorio	680	Pr500	27.80	1082.28	1082.78	1082.78	1082.96	0.028566	1.89	14.71	41.20	1.01
zorio	660	Pr25	10.60	1081.65	1081.99	1081.98	1082.10	0.026961	1.45	7.33	29.37	0.92
zorio	660	Pr50	13.60	1081.65	1082.03	1082.02	1082.16	0.029386	1.61	8.44	30.66	0.98
zorio	660	Pr100	17.10	1081.65	1082.07	1082.07	1082.23	0.029924	1.74	9.83	32.28	1.01
zorio	660	Pr200	21.40	1081.65	1082.13	1082.13	1082.30	0.028885	1.85	11.59	33.91	1.01
zorio	660	Pr500	27.80	1081.65	1082.20	1082.20	1082.40	0.027978	1.98	14.01	35.91	1.01
zorio	640	Pr25	10.60	1080.95	1081.38	1081.38	1081.51	0.032897	1.56	6.80	28.30	1.01
zorio	640	Pr50	13.60	1080.95	1081.43	1081.43	1081.57	0.029836	1.65	8.26	29.42	0.99
zorio	640	Pr100	17.10	1080.95	1081.47	1081.48	1081.64	0.033159	1.85	9.26	30.05	1.06
zorio	640	Pr200	21.40	1080.95	1081.55	1081.53	1081.72	0.023886	1.79	11.95	31.69	0.93
zorio	640	Pr500	27.80	1080.95	1081.64	1081.60	1081.82	0.021813	1.90	14.66	33.32	0.91
zorio	620	Pr25	10.60	1080.57	1081.19	1081.03	1081.23	0.006203	0.91	11.66	31.09	0.47
zorio	620	Pr50	13.60	1080.57	1081.25		1081.30	0.006498	1.00	13.54	32.18	0.49
zorio	620	Pr100	17.10	1080.57	1081.31	1081.12	1081.37	0.006800	1.10	15.53	33.30	0.51
zorio	620	Pr200	21.40	1080.57	1081.38		1081.45	0.007062	1.20	17.79	34.33	0.53
zorio	620	Pr500	27.80	1080.57	1081.47		1081.56	0.007373	1.34	20.79	35.36	0.56
zorio	600	Pr25	10.60	1080.60	1081.02		1081.07	0.010894	1.05	10.07	32.85	0.61
zorio	600	Pr50	13.60	1080.60	1081.07		1081.14	0.011026	1.15	11.78	33.78	0.62
zorio	600	Pr100	17.10	1080.60	1081.12		1081.20	0.011152	1.26	13.60	34.61	0.64
zorio	600	Pr200	21.40	1080.60	1081.18		1081.27	0.011463	1.38	15.56	35.32	0.66
zorio	600	Pr500	27.80	1080.60	1081.25		1081.37	0.011657	1.52	18.30	36.23	0.68
zorio	580	Pr25	10.60	1080.08	1080.59	1080.59	1080.71	0.032633	1.57	6.74	27.43	1.01
zorio	580	Pr50	13.60	1080.08	1080.64	1080.64	1080.78	0.031590	1.67	8.12	29.36	1.02
zorio	580	Pr100	17.10	1080.08	1080.69	1080.69	1080.85	0.030578	1.78	9.62	31.07	1.02
zorio	580	Pr200	21.40	1080.08	1080.74	1080.74	1080.92	0.028757	1.87	11.46	32.79	1.01
zorio	580	Pr500	27.80	1080.08	1080.82	1080.82	1081.02	0.027515	2.00	13.87	34.50	1.01
zorio	560	Pr25	10.60	1079.32	1079.85	1079.87	1080.02	0.036610	1.81	5.86	21.05	1.10
zorio	560	Pr50	13.60	1079.32	1079.91	1079.93	1080.10	0.036555	1.91	7.11	23.52	1.11
zorio	560	Pr100	17.10	1079.32	1079.97	1080.00	1080.17	0.036808	2.02	8.47	25.94	1.13

HEC-RAS Plan: plmx1 River: arquillo Reach: zorio (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
zorio	560	Pr200	21.40	1079.32	1080.02	1080.06	1080.26	0.038364	2.15	9.97	28.71	1.16
zorio	560	Pr500	27.80	1079.32	1080.09	1080.14	1080.36	0.039565	2.30	12.08	32.10	1.20
zorio	540	Pr25	10.60	1078.82	1079.59	1079.43	1079.66	0.009719	1.21	8.77	21.31	0.60
zorio	540	Pr50	13.60	1078.82	1079.66	1079.50	1079.75	0.010229	1.31	10.41	23.40	0.63
zorio	540	Pr100	17.10	1078.82	1079.73	1079.58	1079.83	0.010624	1.40	12.20	25.39	0.65
zorio	540	Pr200	21.40	1078.82	1079.81	1079.65	1079.93	0.011250	1.49	14.34	28.33	0.67
zorio	540	Pr500	27.80	1078.82	1079.91	1079.75	1080.04	0.011976	1.60	17.35	32.28	0.70
zorio	520	Pr25	10.60	1078.76	1079.41	1079.26	1079.47	0.008646	1.08	9.83	26.01	0.56
zorio	520	Pr50	13.60	1078.76	1079.47	1079.32	1079.55	0.009482	1.19	11.43	27.97	0.59
zorio	520	Pr100	17.10	1078.76	1079.53	1079.38	1079.62	0.010392	1.30	13.17	30.28	0.63
zorio	520	Pr200	21.40	1078.76	1079.59	1079.45	1079.70	0.011421	1.42	15.10	32.65	0.67
zorio	520	Pr500	27.80	1078.76	1079.67	1079.54	1079.80	0.012348	1.56	17.81	35.31	0.70
zorio	500	Pr25	10.60	1078.66	1079.06	1079.06	1079.16	0.034048	1.45	7.32	34.91	1.01
zorio	500	Pr50	13.60	1078.66	1079.10	1079.10	1079.22	0.032984	1.56	8.73	36.40	1.01
zorio	500	Pr100	17.10	1078.66	1079.14	1079.14	1079.28	0.031493	1.66	10.29	37.56	1.01
zorio	500	Pr200	21.40	1078.66	1079.19	1079.19	1079.34	0.029460	1.76	12.16	38.75	1.00
zorio	500	Pr500	27.80	1078.66	1079.25	1079.25	1079.43	0.028340	1.90	14.61	40.23	1.01
zorio	480	Pr25	10.60	1078.37	1078.85	1078.68	1078.87	0.004403	0.70	15.24	47.05	0.39
zorio	480	Pr50	13.60	1078.37	1078.90	1078.72	1078.93	0.004548	0.77	17.75	48.56	0.40
zorio	480	Pr100	17.10	1078.37	1078.96	1078.75	1078.99	0.004682	0.84	20.42	49.96	0.42
zorio	480	Pr200	21.40	1078.37	1079.02	1078.79	1079.06	0.004800	0.91	23.47	51.44	0.43
zorio	480	Pr500	27.80	1078.37	1079.09	1078.85	1079.15	0.004898	1.01	27.56	52.74	0.45
zorio	460	Pr25	10.60	1078.32	1078.75		1078.78	0.005118	0.68	15.50	54.89	0.41
zorio	460	Pr50	13.60	1078.32	1078.81		1078.84	0.004779	0.73	18.60	56.66	0.41
zorio	460	Pr100	17.10	1078.32	1078.87		1078.90	0.004560	0.78	21.83	57.89	0.41
zorio	460	Pr200	21.40	1078.32	1078.93		1078.96	0.004431	0.84	25.43	59.23	0.41
zorio	460	Pr500	27.80	1078.32	1079.01		1079.05	0.004375	0.92	30.22	60.97	0.42
zorio	440	Pr25	10.60	1078.14	1078.65		1078.68	0.004988	0.73	14.50	45.56	0.41
zorio	440	Pr50	13.60	1078.14	1078.70		1078.74	0.005231	0.80	17.09	49.04	0.43

HEC-RAS Plan: plmx1 River: arquillo Reach: zorio (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
zorio	440	Pr100	17.10	1078.14	1078.76		1078.80	0.005488	0.86	19.90	52.75	0.45
zorio	440	Pr200	21.40	1078.14	1078.82		1078.86	0.005668	0.92	23.23	56.80	0.46
zorio	440	Pr500	27.80	1078.14	1078.90		1078.95	0.005808	1.00	27.92	61.93	0.47
zorio	420	Pr25	10.60	1078.05	1078.36	1078.35	1078.46	0.034331	1.42	7.44	36.53	1.01
zorio	420	Pr50	13.60	1078.05	1078.39	1078.39	1078.51	0.033214	1.53	8.89	38.27	1.01
zorio	420	Pr100	17.10	1078.05	1078.44	1078.44	1078.57	0.031331	1.62	10.59	40.21	1.00
zorio	420	Pr200	21.40	1078.05	1078.48	1078.48	1078.63	0.029995	1.71	12.52	42.31	1.00
zorio	420	Pr500	27.80	1078.05	1078.55	1078.55	1078.72	0.029028	1.83	15.18	45.11	1.01
zorio	400	Pr25	10.60	1077.26	1077.72	1077.71	1077.83	0.028583	1.46	7.27	29.99	0.95
zorio	400	Pr50	13.60	1077.26	1077.73	1077.76	1077.90	0.045443	1.85	7.36	30.17	1.19
zorio	400	Pr100	17.10	1077.26	1077.82	1077.81	1077.96	0.027244	1.63	10.52	35.63	0.95
zorio	400	Pr200	21.40	1077.26	1077.88	1077.86	1078.03	0.026319	1.71	12.50	38.17	0.95
zorio	400	Pr500	27.80	1077.26	1077.92	1077.93	1078.12	0.030891	1.96	14.17	39.77	1.05
zorio	380	Pr25	10.60	1076.96	1077.43	1077.33	1077.48	0.010916	1.01	10.52	36.78	0.60
zorio	380	Pr50	13.60	1076.96	1077.48	1077.37	1077.54	0.011214	1.10	12.39	38.88	0.62
zorio	380	Pr100	17.10	1076.96	1077.53	1077.42	1077.60	0.011349	1.18	14.50	41.20	0.63
zorio	380	Pr200	21.40	1076.96	1077.59	1077.47	1077.67	0.011681	1.27	16.82	43.58	0.65
zorio	380	Pr500	27.80	1076.96	1077.66	1077.54	1077.76	0.012019	1.39	20.02	46.49	0.68
zorio	360	Pr25	10.60	1076.66	1077.01	1077.01	1077.12	0.033388	1.47	7.19	32.81	1.01
zorio	360	Pr50	13.60	1076.66	1077.05	1077.05	1077.18	0.032261	1.57	8.68	35.24	1.01
zorio	360	Pr100	17.10	1076.66	1077.10	1077.10	1077.24	0.031227	1.66	10.28	37.23	1.01
zorio	360	Pr200	21.40	1076.66	1077.15	1077.15	1077.31	0.029993	1.76	12.15	39.22	1.01
zorio	360	Pr500	27.80	1076.66	1077.21	1077.21	1077.39	0.028692	1.88	14.80	41.98	1.01
zorio	340	Pr25	10.60	1076.38	1076.83	1076.66	1076.85	0.004704	0.71	14.92	46.88	0.40
zorio	340	Pr50	13.60	1076.38	1076.89	1076.70	1076.92	0.004655	0.77	17.67	48.81	0.41
zorio	340	Pr100	17.10	1076.38	1076.94	1076.74	1076.98	0.004639	0.83	20.60	50.70	0.42
zorio	340	Pr200	21.40	1076.38	1077.01	1076.78	1077.05	0.004624	0.89	23.94	52.59	0.42
zorio	340	Pr500	27.80	1076.38	1077.09	1076.84	1077.14	0.004602	0.98	28.51	54.76	0.43
zorio	320	Pr25	10.60	1076.26	1076.73		1076.76	0.004630	0.74	14.40	42.35	0.40

HEC-RAS Plan: plmx1 River: arquillo Reach: zorio (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
zorio	320	Pr50	13.60	1076.26	1076.79		1076.82	0.004940	0.81	16.69	44.30	0.42
zorio	320	Pr100	17.10	1076.26	1076.84		1076.88	0.005249	0.89	19.14	46.29	0.44
zorio	320	Pr200	21.40	1076.26	1076.90		1076.95	0.005497	0.97	22.01	48.55	0.46
zorio	320	Pr500	27.80	1076.26	1076.98		1077.04	0.005638	1.06	26.10	51.16	0.48
zorio	300	Pr25	10.60	1076.14	1076.52		1076.59	0.018464	1.16	9.16	38.64	0.76
zorio	300	Pr50	13.60	1076.14	1076.58		1076.65	0.016057	1.19	11.45	41.76	0.72
zorio	300	Pr100	17.10	1076.14	1076.64		1076.72	0.013991	1.21	14.10	44.96	0.69
zorio	300	Pr200	21.40	1076.14	1076.71		1076.79	0.012041	1.24	17.32	48.00	0.66
zorio	300	Pr500	27.80	1076.14	1076.81		1076.89	0.010696	1.25	22.28	55.66	0.63
zorio	280	Pr25	10.60	1075.83	1076.34		1076.38	0.006217	0.89	11.95	33.13	0.47
zorio	280	Pr50	13.60	1075.83	1076.41		1076.46	0.006093	0.96	14.24	34.80	0.48
zorio	280	Pr100	17.10	1075.83	1076.48		1076.53	0.005995	1.02	16.74	36.54	0.48
zorio	280	Pr200	21.40	1075.83	1076.56		1076.62	0.005938	1.09	19.61	38.51	0.49
zorio	280	Pr500	27.80	1075.83	1076.66		1076.73	0.005979	1.18	23.49	41.03	0.50
zorio	260	Pr25	10.60	1075.59	1076.19		1076.24	0.007710	0.99	10.70	29.53	0.53
zorio	260	Pr50	13.60	1075.59	1076.26		1076.32	0.007668	1.07	12.76	31.47	0.53
zorio	260	Pr100	17.10	1075.59	1076.33		1076.40	0.007616	1.14	15.04	33.48	0.54
zorio	260	Pr200	21.40	1075.59	1076.41		1076.48	0.007600	1.21	17.67	35.68	0.55
zorio	260	Pr500	27.80	1075.59	1076.50		1076.59	0.007737	1.32	21.08	37.97	0.57
zorio	240	Pr25	10.60	1075.40	1075.88	1075.85	1075.99	0.022592	1.47	7.22	24.78	0.87
zorio	240	Pr50	13.60	1075.40	1075.93	1075.91	1076.06	0.024172	1.61	8.46	26.61	0.91
zorio	240	Pr100	17.10	1075.40	1075.98	1075.96	1076.13	0.025572	1.74	9.80	28.49	0.95
zorio	240	Pr200	21.40	1075.40	1076.03	1076.03	1076.21	0.026818	1.88	11.37	30.52	0.98
zorio	240	Pr500	27.80	1075.40	1076.11	1076.11	1076.32	0.027264	2.03	13.71	33.34	1.01
zorio	220	Pr25	10.60	1075.11	1075.52		1075.60	0.016338	1.22	8.70	30.96	0.73
zorio	220	Pr50	13.60	1075.11	1075.58		1075.67	0.015401	1.29	10.54	32.89	0.73
zorio	220	Pr100	17.10	1075.11	1075.64		1075.74	0.014664	1.36	12.55	34.81	0.72
zorio	220	Pr200	21.40	1075.11	1075.71		1075.81	0.014103	1.44	14.84	36.72	0.72
zorio	220	Pr500	27.80	1075.11	1075.79	1075.68	1075.91	0.013705	1.55	17.98	39.23	0.73

HEC-RAS Plan: plmx1 River: arquillo Reach: zorio (Continued)

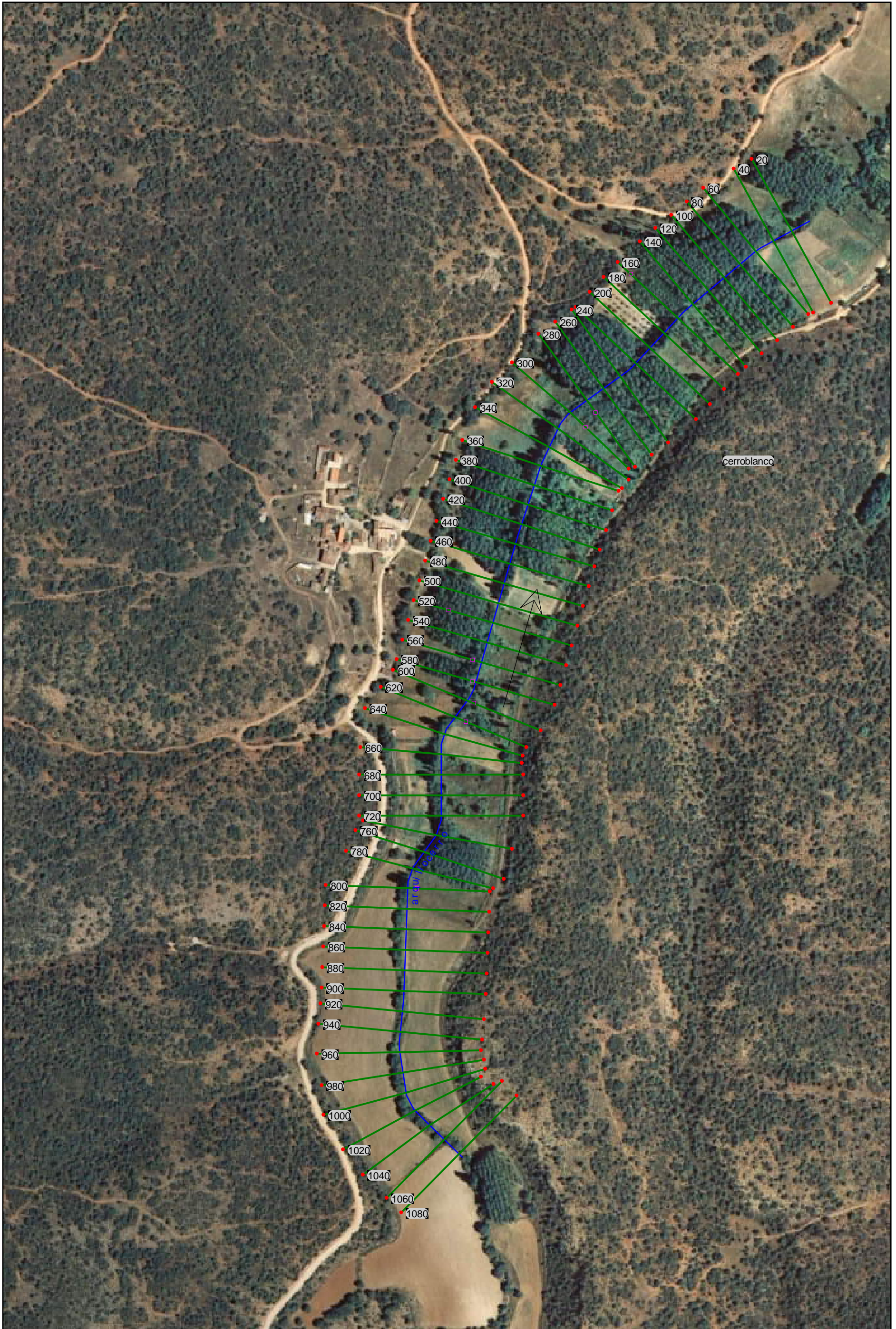
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
zorio	200	Pr25	10.60	1074.84	1075.34		1075.39	0.006937	0.91	11.62	33.57	0.49
zorio	200	Pr50	13.60	1074.84	1075.40	1075.24	1075.45	0.007286	1.00	13.58	35.36	0.52
zorio	200	Pr100	17.10	1074.84	1075.46	1075.29	1075.52	0.007635	1.09	15.70	37.32	0.54
zorio	200	Pr200	21.40	1074.84	1075.51		1075.58	0.008739	1.22	17.54	38.96	0.58
zorio	200	Pr500	27.80	1074.84	1075.58		1075.67	0.009739	1.37	20.34	41.31	0.62
zorio	180	Pr25	10.60	1074.63	1075.00	1075.00	1075.12	0.033116	1.50	7.07	31.32	1.01
zorio	180	Pr50	13.60	1074.63	1075.05	1075.05	1075.18	0.031664	1.59	8.54	33.39	1.01
zorio	180	Pr100	17.10	1074.63	1075.10	1075.09	1075.24	0.030371	1.69	10.12	35.10	1.00
zorio	180	Pr200	21.40	1074.63	1075.18	1075.15	1075.31	0.022439	1.64	13.08	37.93	0.89
zorio	180	Pr500	27.80	1074.63	1075.27		1075.41	0.017821	1.64	16.95	41.18	0.82
zorio	160	Pr25	10.60	1074.26	1074.92	1074.60	1074.94	0.002203	0.62	17.02	36.84	0.29
zorio	160	Pr50	13.60	1074.26	1074.98	1074.65	1075.01	0.002475	0.70	19.43	38.54	0.31
zorio	160	Pr100	17.10	1074.26	1075.04		1075.08	0.002775	0.78	21.91	40.20	0.34
zorio	160	Pr200	21.40	1074.26	1075.11		1075.15	0.003065	0.86	24.77	42.04	0.36
zorio	160	Pr500	27.80	1074.26	1075.20		1075.25	0.003424	0.97	28.66	44.43	0.39
zorio	140	Pr25	10.60	1074.14	1074.89		1074.90	0.001362	0.52	20.39	40.33	0.23
zorio	140	Pr50	13.60	1074.14	1074.95		1074.96	0.001624	0.60	22.82	41.99	0.26
zorio	140	Pr100	17.10	1074.14	1075.00		1075.03	0.001918	0.68	25.28	43.58	0.28
zorio	140	Pr200	21.40	1074.14	1075.07		1075.10	0.002220	0.76	28.13	45.35	0.31
zorio	140	Pr500	27.80	1074.14	1075.15		1075.19	0.002580	0.87	31.99	47.30	0.34
zorio	120	Pr25	10.60	1074.15	1074.87		1074.88	0.000986	0.45	23.68	46.02	0.20
zorio	120	Pr50	13.60	1074.15	1074.92		1074.94	0.001189	0.52	26.24	47.12	0.22
zorio	120	Pr100	17.10	1074.15	1074.97		1074.99	0.001426	0.59	28.76	48.16	0.25
zorio	120	Pr200	21.40	1074.15	1075.03		1075.06	0.001677	0.68	31.65	49.34	0.27
zorio	120	Pr500	27.80	1074.15	1075.11		1075.14	0.002009	0.78	35.50	50.87	0.30
zorio	100	Pr25	10.60	1074.38	1074.80	1074.70	1074.83	0.008688	0.82	12.92	51.77	0.52
zorio	100	Pr50	13.60	1074.38	1074.84		1074.88	0.008242	0.88	15.38	52.94	0.52
zorio	100	Pr100	17.10	1074.38	1074.88		1074.93	0.008539	0.97	17.55	53.66	0.54
zorio	100	Pr200	21.40	1074.38	1074.93		1074.99	0.008641	1.06	20.13	54.51	0.56
zorio	100	Pr500	27.80	1074.38	1074.99		1075.06	0.008971	1.18	23.48	55.58	0.58

HEC-RAS Plan: plmx1 River: arquillo Reach: zorio (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
zorio	80	Pr25	10.60	1074.19	1074.45	1074.44	1074.53	0.030781	1.24	8.57	47.94	0.93
zorio	80	Pr50	13.60	1074.19	1074.47	1074.47	1074.58	0.035278	1.42	9.61	48.63	1.02
zorio	80	Pr100	17.10	1074.19	1074.51	1074.51	1074.63	0.033176	1.51	11.33	49.77	1.01
zorio	80	Pr200	21.40	1074.19	1074.55	1074.55	1074.68	0.031821	1.61	13.26	51.02	1.01
zorio	80	Pr500	27.80	1074.19	1074.60	1074.60	1074.75	0.030460	1.75	15.91	52.63	1.01
zorio	60	Pr25	10.60	1073.52	1073.87		1073.96	0.026423	1.30	8.15	37.68	0.89
zorio	60	Pr50	13.60	1073.52	1073.93	1073.89	1074.02	0.021612	1.32	10.32	40.27	0.83
zorio	60	Pr100	17.10	1073.52	1073.99	1073.94	1074.08	0.018560	1.34	12.72	43.00	0.79
zorio	60	Pr200	21.40	1073.52	1074.05	1073.98	1074.15	0.016247	1.39	15.44	45.09	0.76
zorio	60	Pr500	27.80	1073.52	1074.13	1074.04	1074.24	0.014439	1.46	19.08	47.34	0.73
zorio	40	Pr25	10.60	1073.16	1073.76		1073.78	0.003821	0.70	15.24	42.27	0.37
zorio	40	Pr50	13.60	1073.16	1073.81		1073.84	0.004125	0.77	17.55	43.86	0.39
zorio	40	Pr100	17.10	1073.16	1073.87		1073.90	0.004399	0.85	20.08	45.70	0.41
zorio	40	Pr200	21.40	1073.16	1073.93		1073.97	0.004690	0.93	22.92	47.65	0.43
zorio	40	Pr500	27.80	1073.16	1074.01		1074.06	0.005032	1.04	26.73	49.84	0.45
zorio	20	Pr25	10.60	1073.21	1073.57	1073.52	1073.63	0.018519	1.14	9.32	40.45	0.76
zorio	20	Pr50	13.60	1073.21	1073.61	1073.56	1073.69	0.018529	1.23	11.08	42.81	0.77
zorio	20	Pr100	17.10	1073.21	1073.65	1073.60	1073.74	0.018520	1.32	12.94	44.77	0.78
zorio	20	Pr200	21.40	1073.21	1073.70	1073.64	1073.80	0.018524	1.42	15.04	46.62	0.80
zorio	20	Pr500	27.80	1073.21	1073.76	1073.71	1073.88	0.018541	1.55	17.96	49.06	0.82

ANEXO 2. LISTADOS RESULTADOS HIDRÁULICOS. HEC-RAS

- **CERROBLANCO**



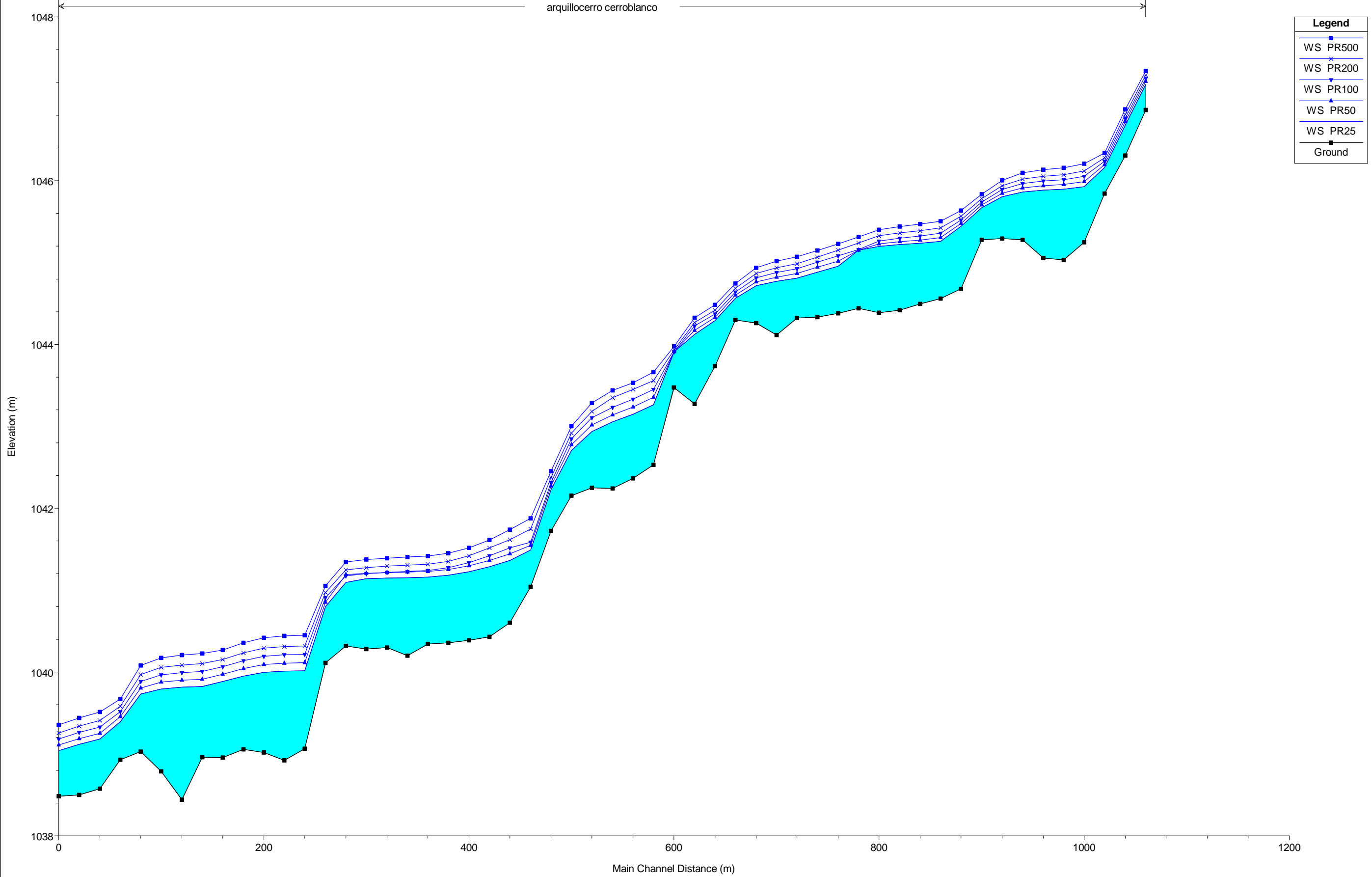
1 cm Horiz. = 35 m 1 cm Vert. = 35 m

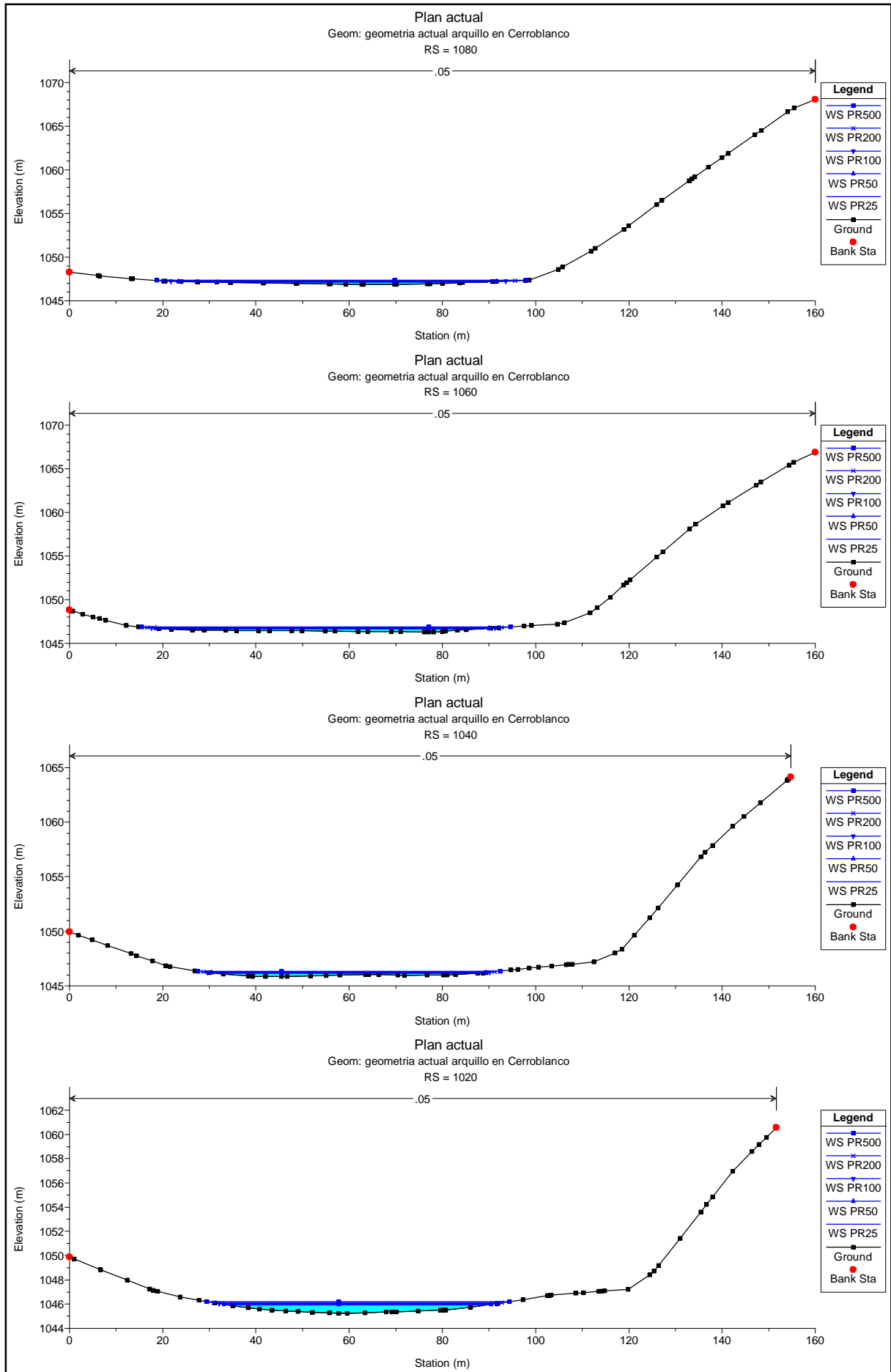
Plan actual

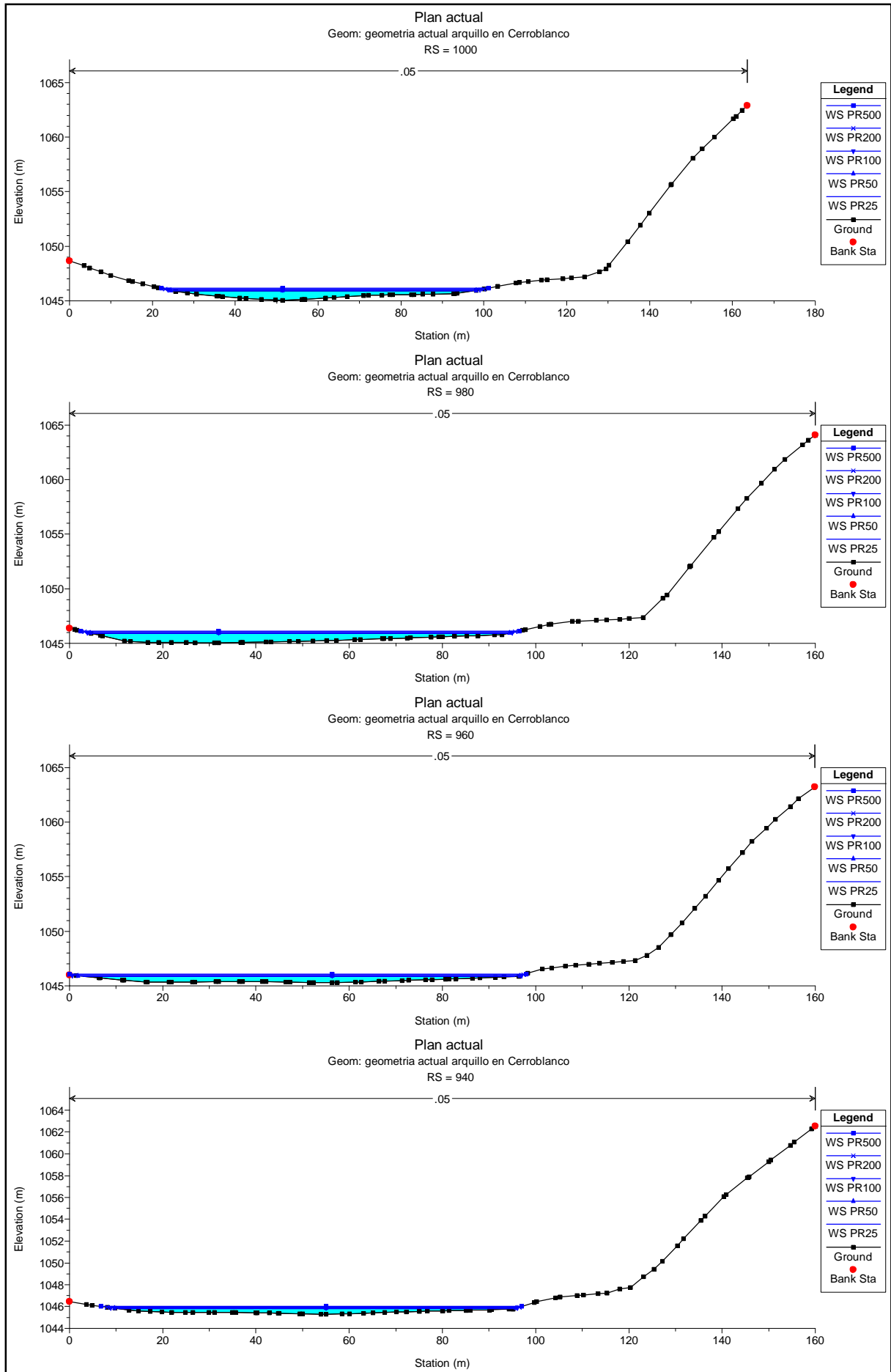
Geom: geometria actual arquillo en Cerroblanco

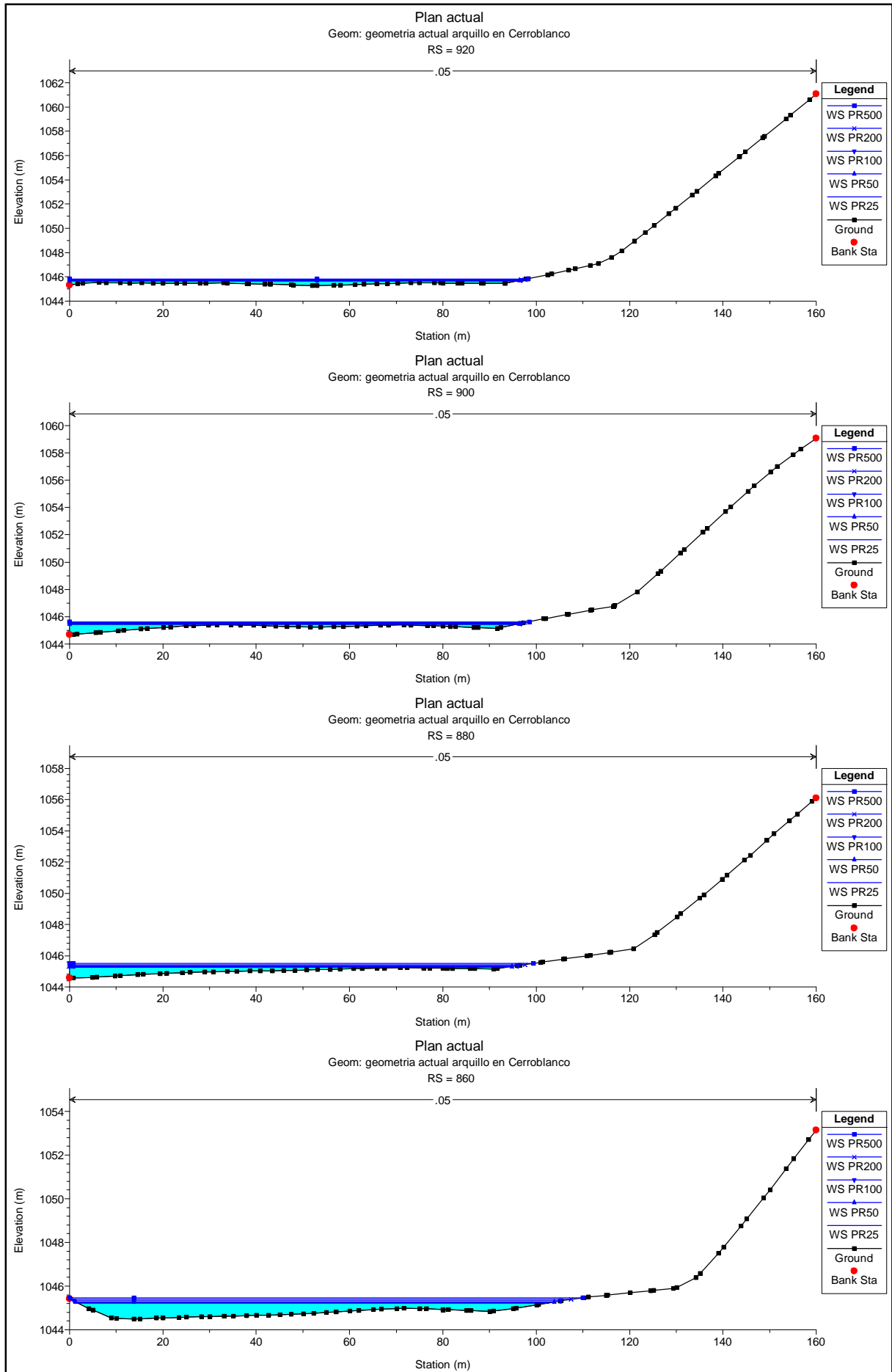
arquillocerro cerroblanco

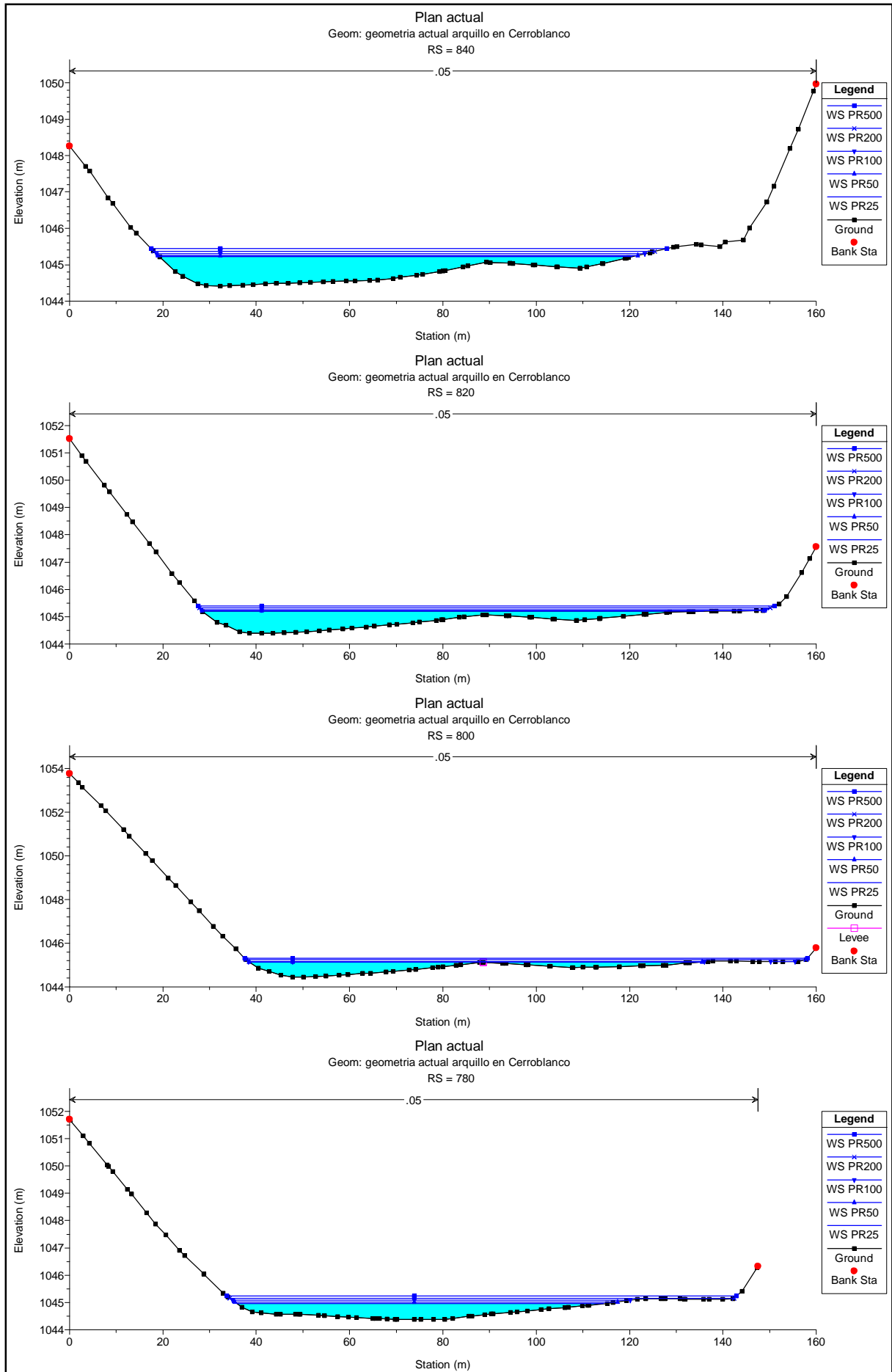
Legend	
WS PR500	■
WS PR200	×
WS PR100	▼
WS PR50	▲
WS PR25	■
Ground	■

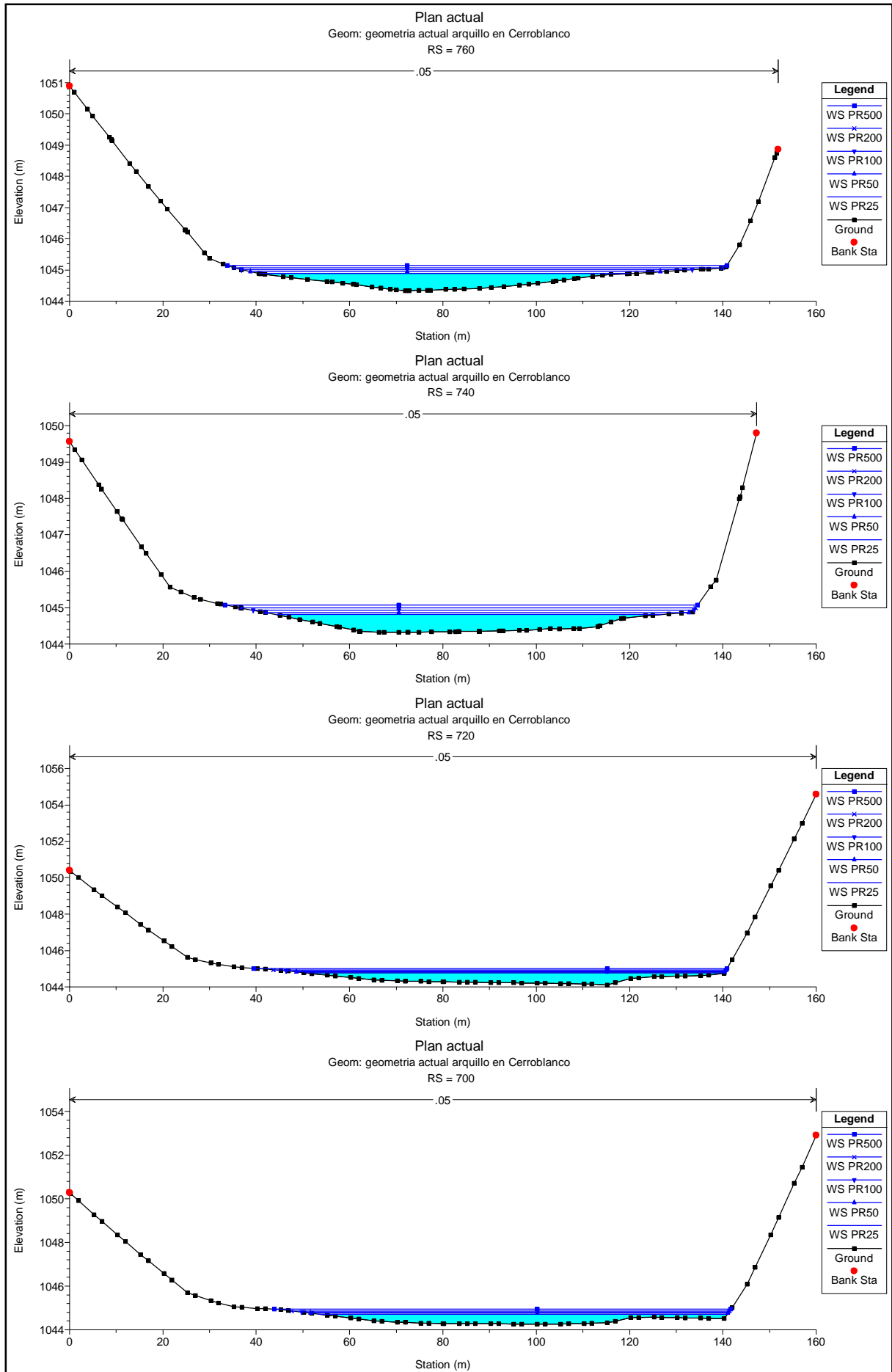


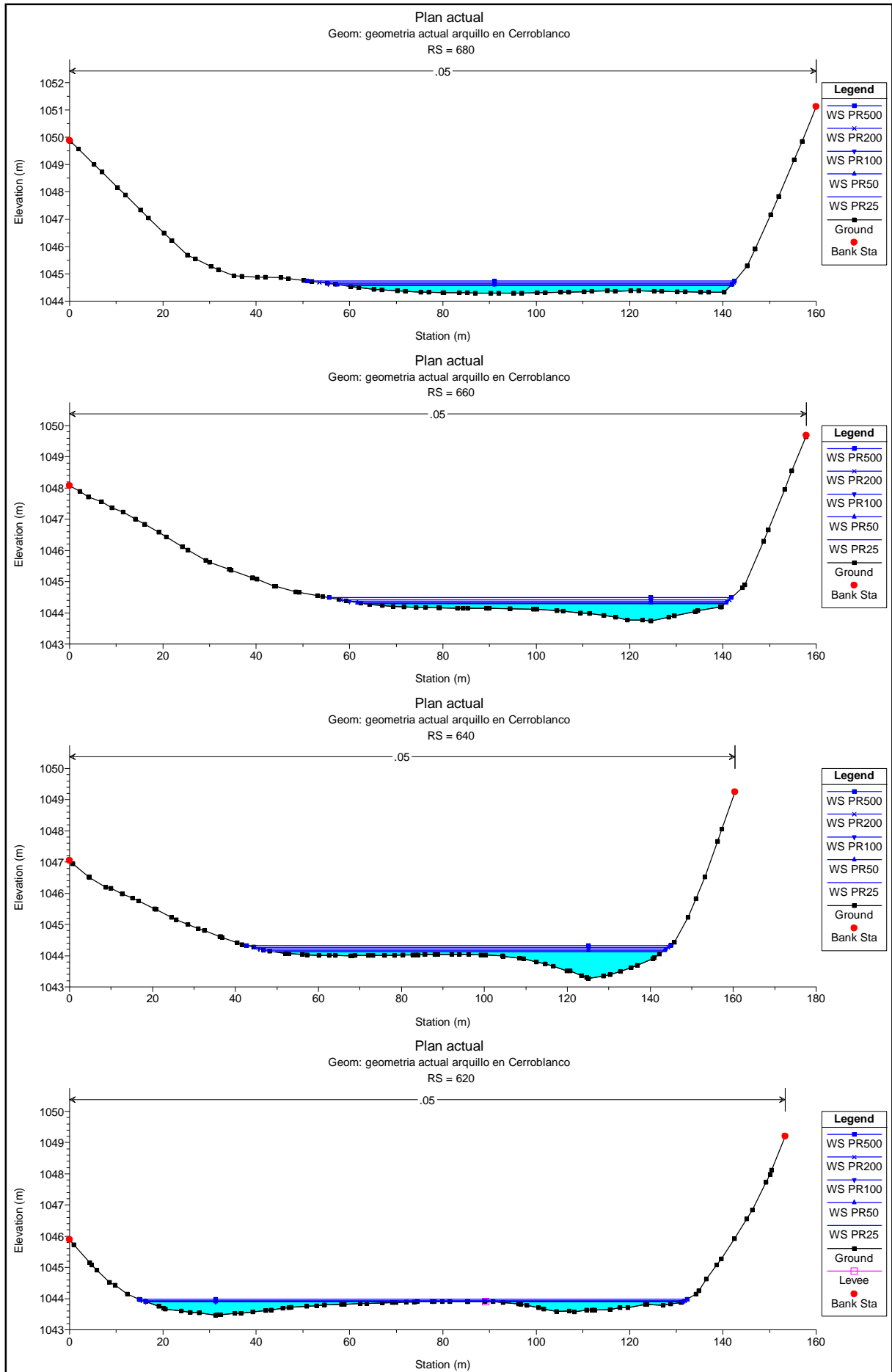


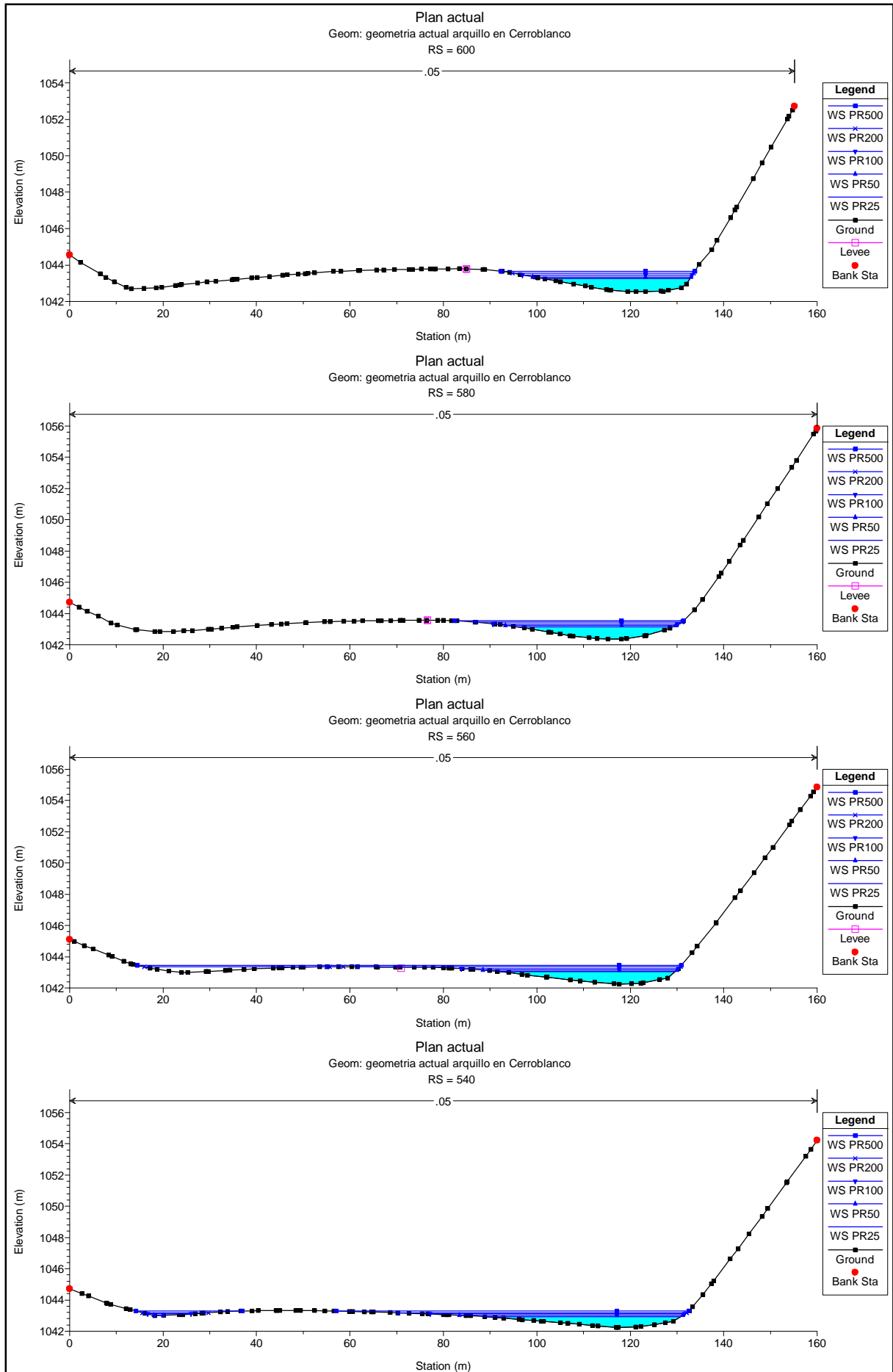


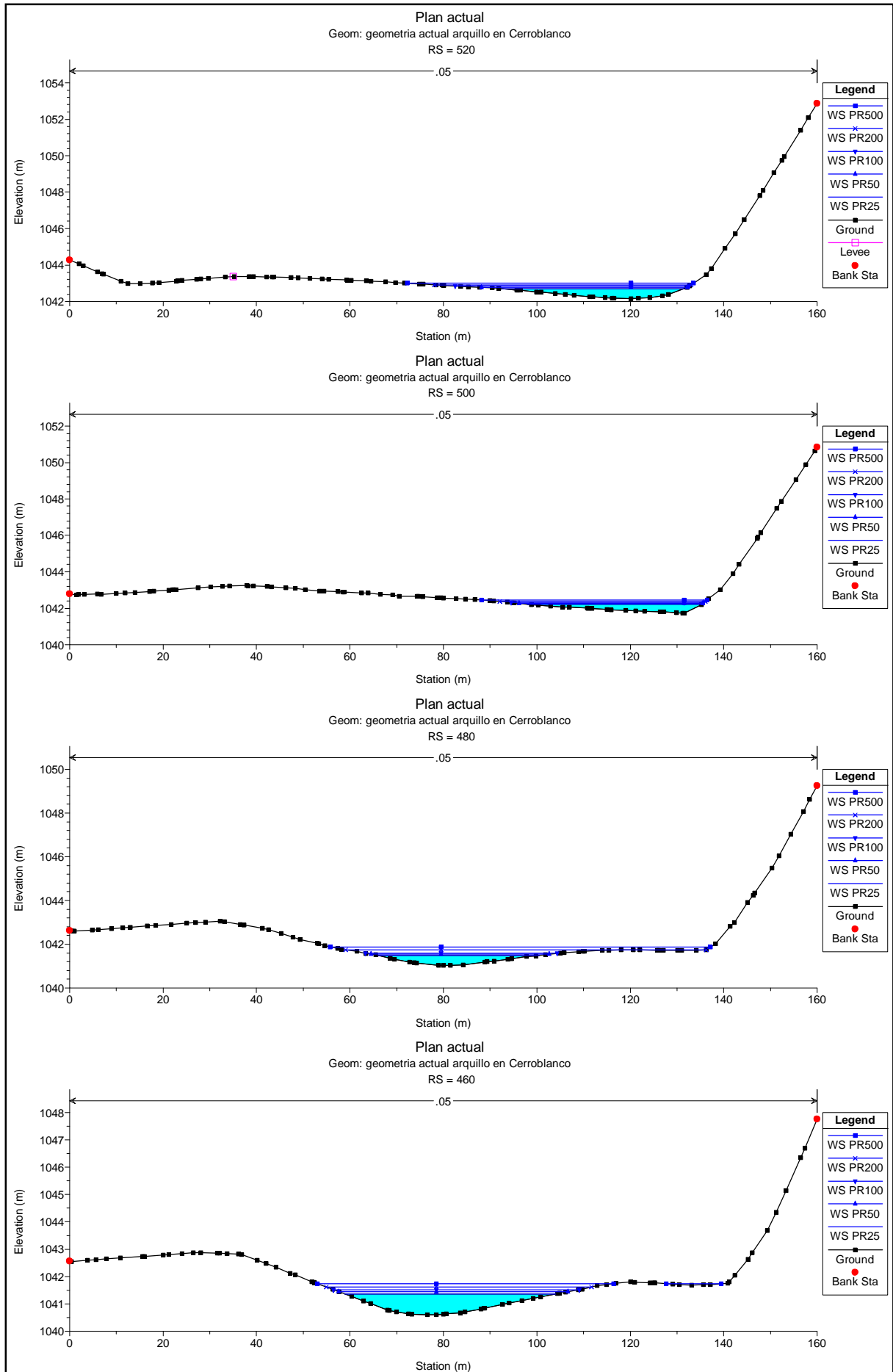


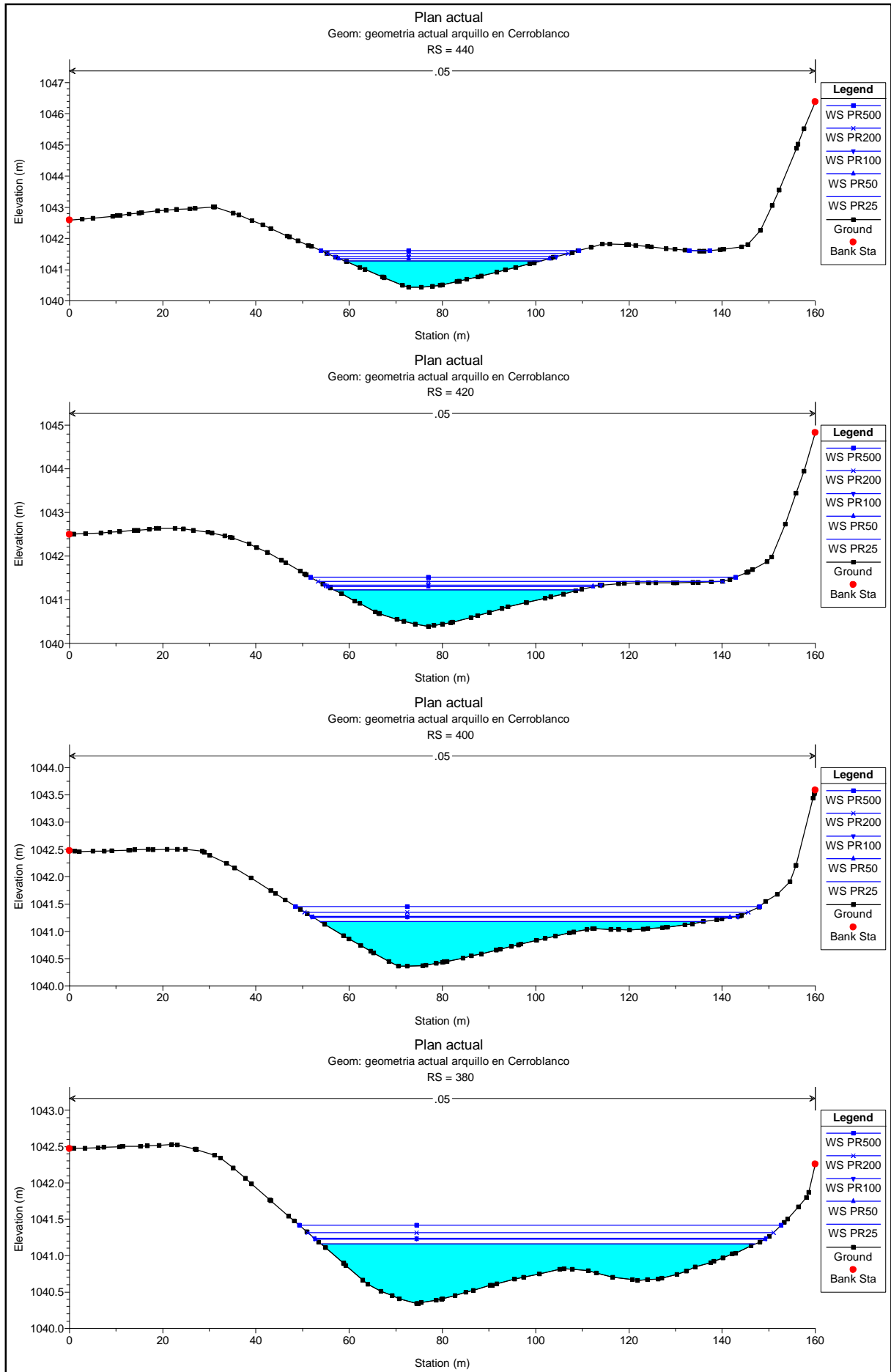


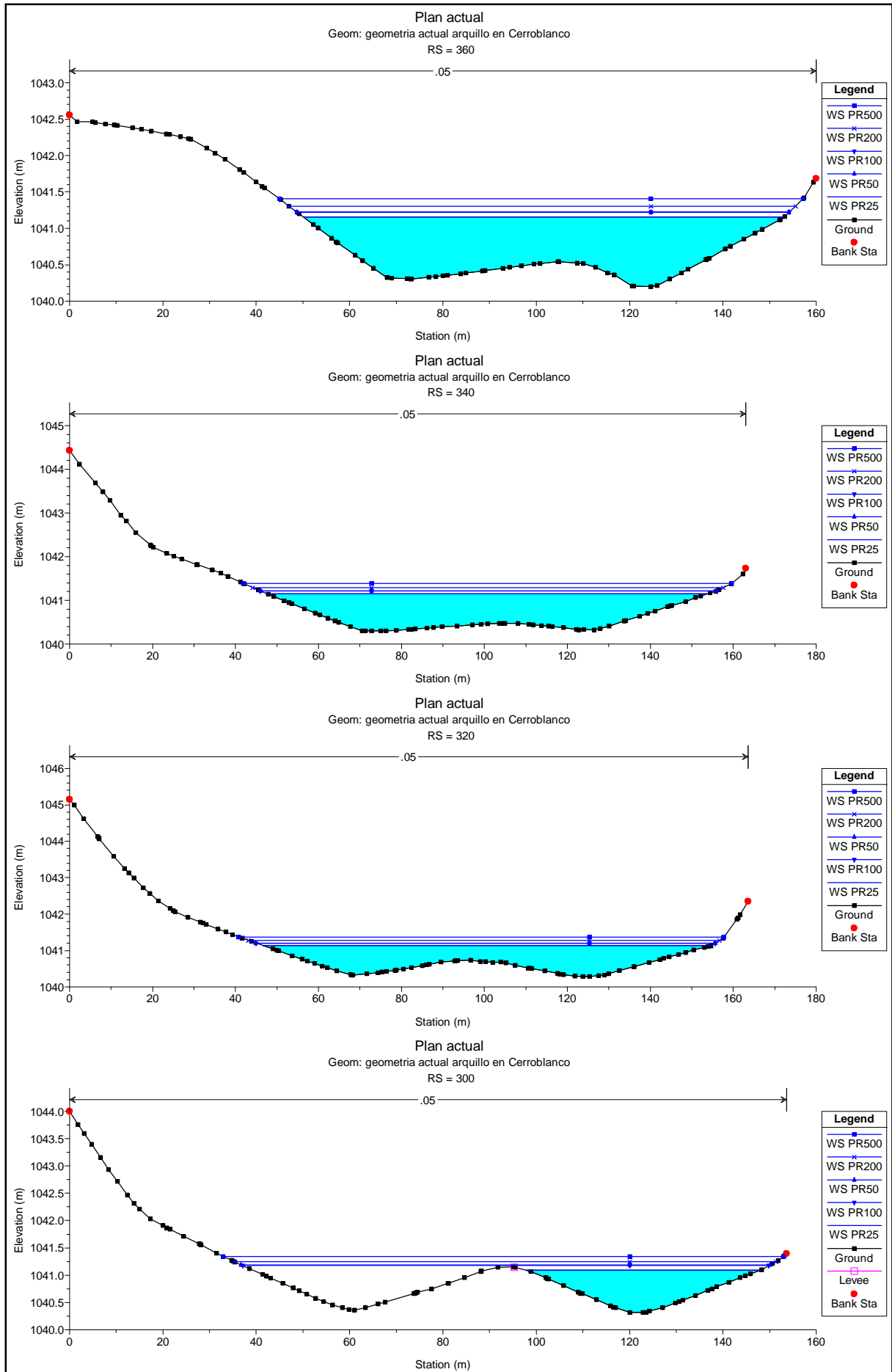


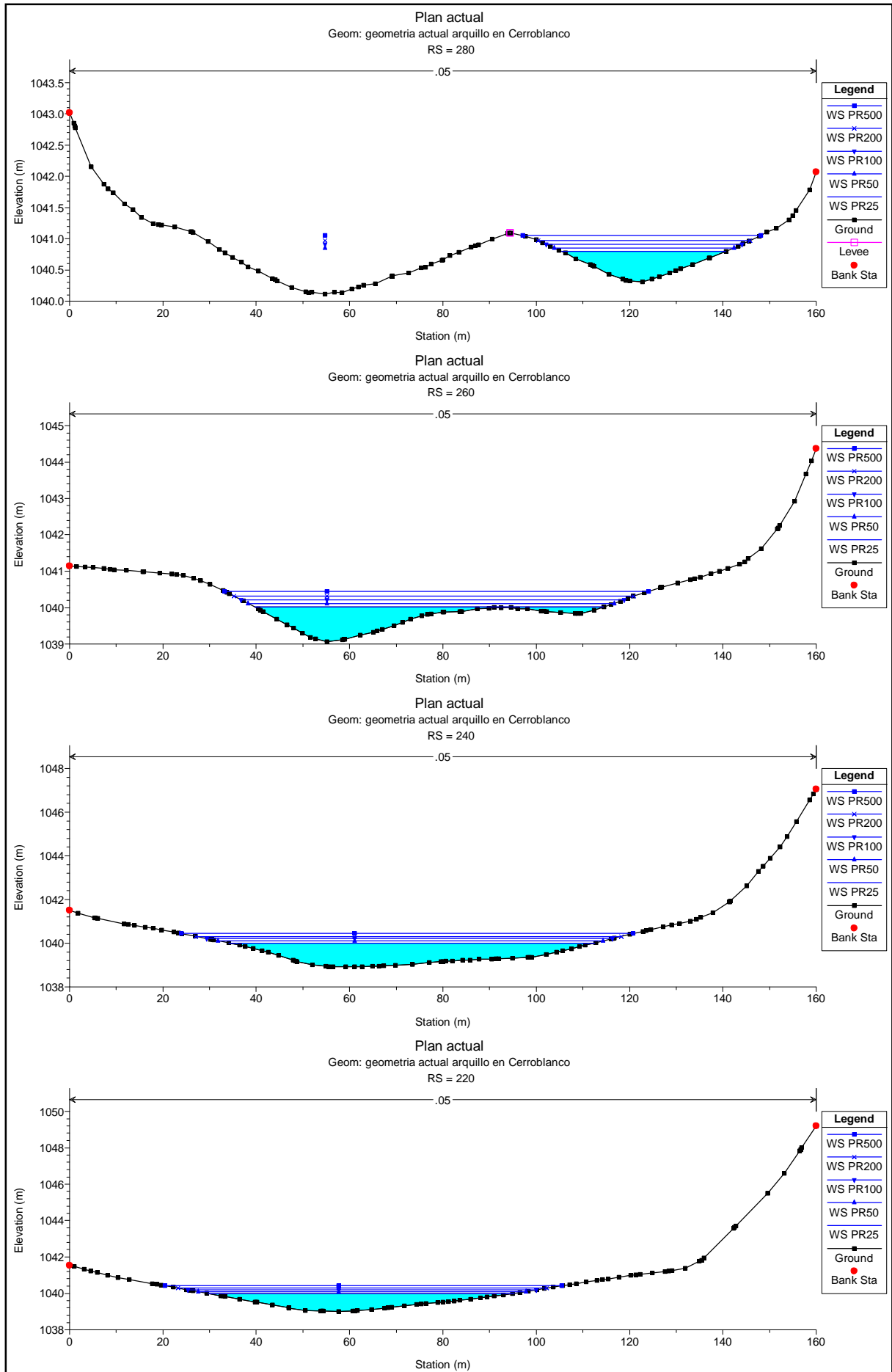


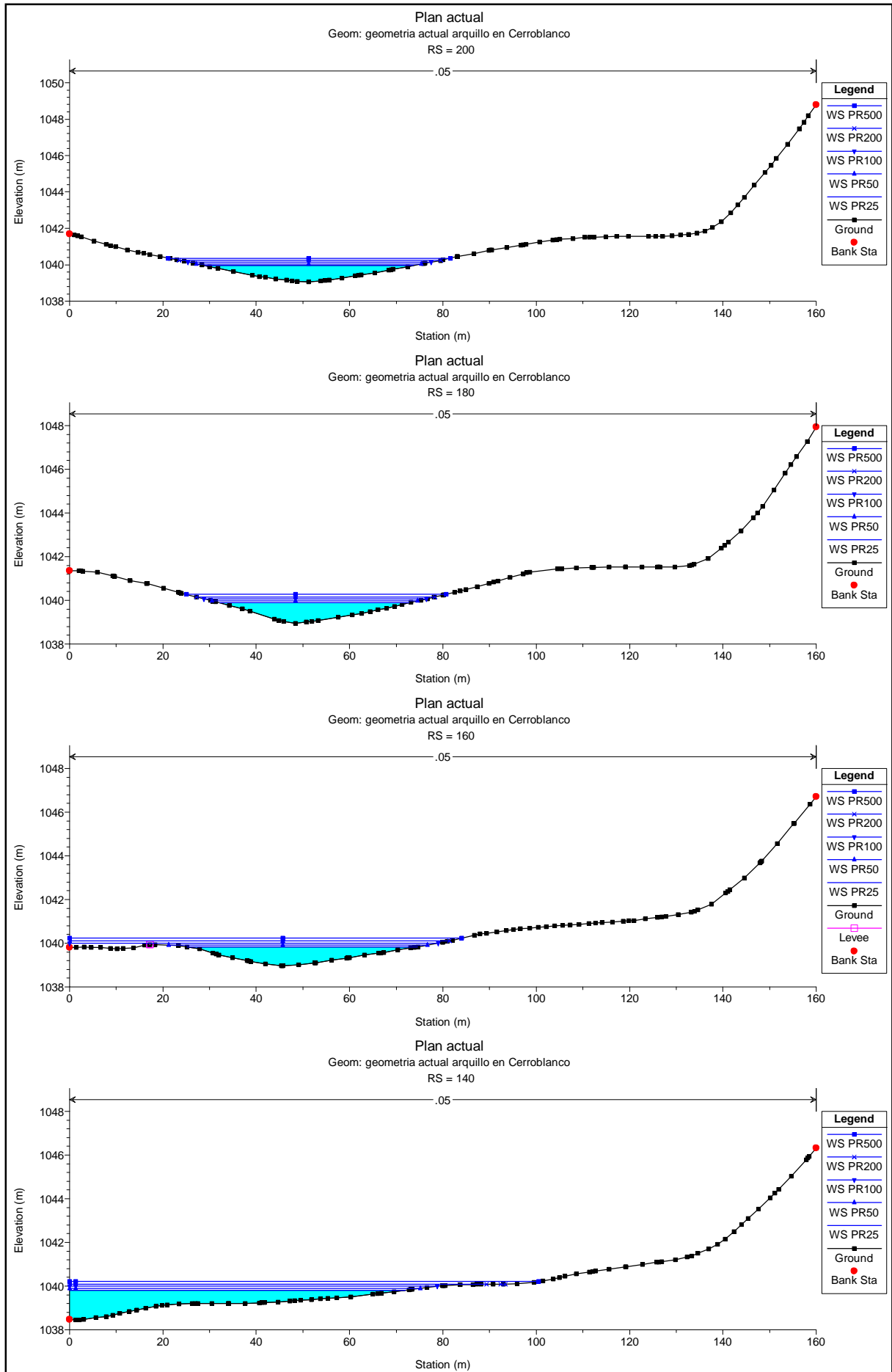


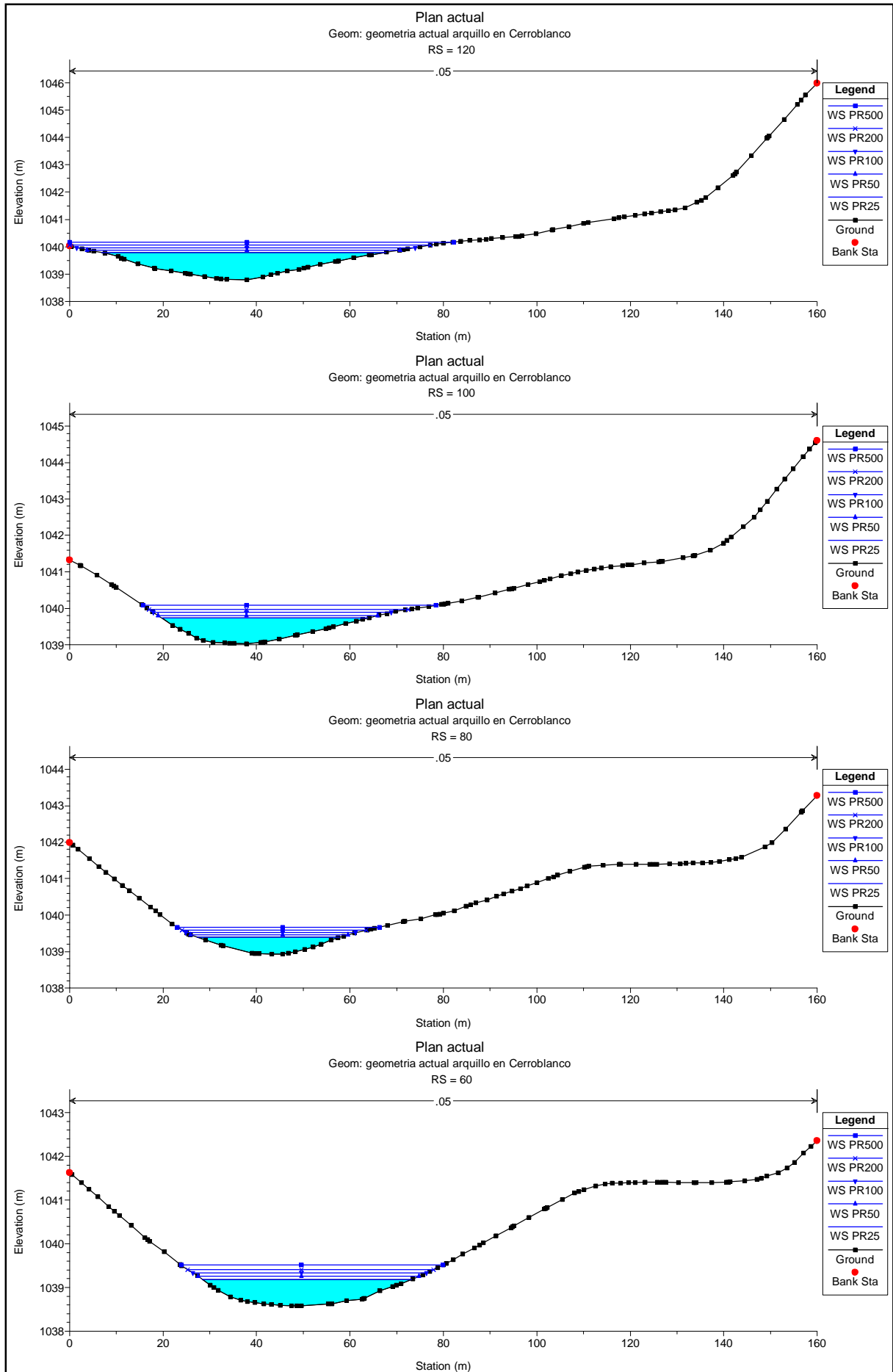


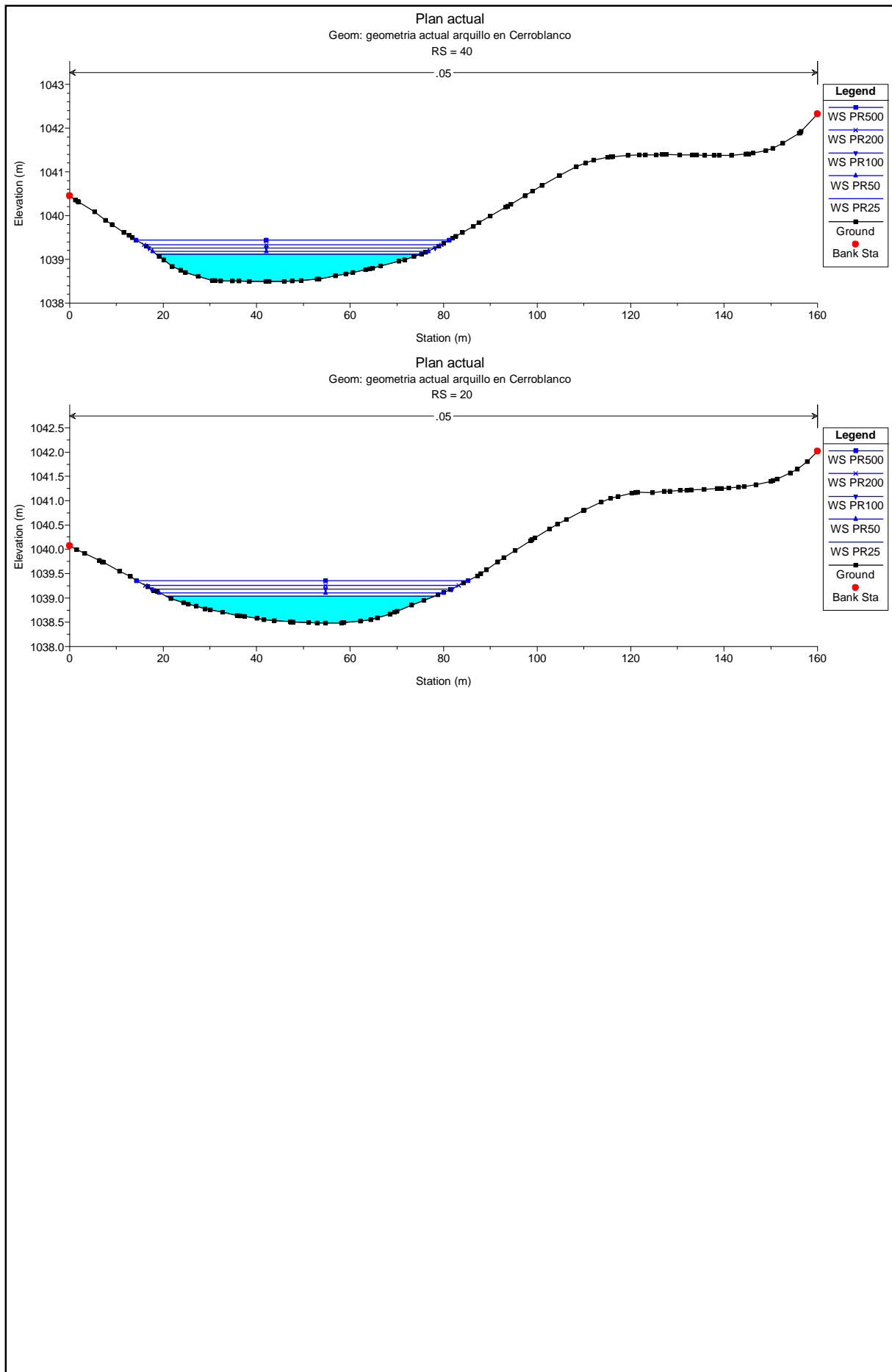












HEC-RAS Plan: plmxact1 River: arquillocerro Reach: cerroblanco

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
cerroblanco	1080	PR25	15.40	1046.86	1047.18	1047.18	1047.27	0.044571	1.35	11.38	62.68	1.01
cerroblanco	1080	PR50	19.70	1046.86	1047.21	1047.21	1047.32	0.043348	1.43	13.77	68.34	1.02
cerroblanco	1080	PR100	25.00	1046.86	1047.25	1047.25	1047.37	0.041755	1.53	16.39	71.82	1.02
cerroblanco	1080	PR200	31.10	1046.86	1047.29	1047.29	1047.42	0.039574	1.61	19.36	75.43	1.01
cerroblanco	1080	PR500	40.40	1046.86	1047.34	1047.34	1047.49	0.037748	1.72	23.43	79.28	1.01
cerroblanco	1060	PR25	15.40	1046.31	1046.68	1046.60	1046.72	0.014037	0.92	16.78	69.62	0.60
cerroblanco	1060	PR50	19.70	1046.31	1046.72	1046.64	1046.77	0.014269	1.01	19.56	71.49	0.61
cerroblanco	1060	PR100	25.00	1046.31	1046.76	1046.67	1046.83	0.014455	1.10	22.75	73.62	0.63
cerroblanco	1060	PR200	31.10	1046.31	1046.81	1046.71	1046.88	0.014566	1.19	26.19	75.91	0.65
cerroblanco	1060	PR500	40.40	1046.31	1046.87	1046.77	1046.96	0.014641	1.30	31.11	79.10	0.66
cerroblanco	1040	PR25	15.40	1045.84	1046.16	1046.16	1046.26	0.043470	1.40	11.04	56.99	1.01
cerroblanco	1040	PR50	19.70	1045.84	1046.20	1046.20	1046.31	0.041440	1.50	13.15	58.85	1.01
cerroblanco	1040	PR100	25.00	1045.84	1046.24	1046.24	1046.37	0.039600	1.61	15.56	60.60	1.01
cerroblanco	1040	PR200	31.10	1045.84	1046.28	1046.28	1046.43	0.037591	1.71	18.22	62.40	1.01
cerroblanco	1040	PR500	40.40	1045.84	1046.34	1046.34	1046.51	0.036073	1.84	21.92	64.81	1.01
cerroblanco	1020	PR25	15.40	1045.25	1045.93	1045.62	1045.95	0.002629	0.61	25.31	55.36	0.29
cerroblanco	1020	PR50	19.70	1045.25	1045.99	1045.67	1046.01	0.002962	0.69	28.72	57.37	0.31
cerroblanco	1020	PR100	25.00	1045.25	1046.05	1045.72	1046.08	0.003323	0.77	32.48	59.51	0.33
cerroblanco	1020	PR200	31.10	1045.25	1046.12	1045.77	1046.16	0.003677	0.85	36.45	61.74	0.35
cerroblanco	1020	PR500	40.40	1045.25	1046.21	1045.84	1046.25	0.004123	0.96	42.03	64.85	0.38
cerroblanco	1000	PR25	15.40	1045.03	1045.90		1045.91	0.001414	0.45	33.88	72.07	0.21
cerroblanco	1000	PR50	19.70	1045.03	1045.95		1045.97	0.001626	0.52	38.00	73.71	0.23
cerroblanco	1000	PR100	25.00	1045.03	1046.01		1046.03	0.001855	0.59	42.49	75.25	0.25
cerroblanco	1000	PR200	31.10	1045.03	1046.08		1046.10	0.002082	0.66	47.18	76.83	0.27
cerroblanco	1000	PR500	40.40	1045.03	1046.16		1046.19	0.002376	0.75	53.65	78.99	0.29
cerroblanco	980	PR25	15.40	1045.06	1045.88		1045.89	0.000528	0.31	49.52	88.88	0.13
cerroblanco	980	PR50	19.70	1045.06	1045.94		1045.95	0.000643	0.36	54.38	90.00	0.15
cerroblanco	980	PR100	25.00	1045.06	1046.00		1046.01	0.000774	0.42	59.64	91.18	0.17
cerroblanco	980	PR200	31.10	1045.06	1046.06		1046.07	0.000911	0.48	65.09	92.39	0.18
cerroblanco	980	PR500	40.40	1045.06	1046.14		1046.15	0.001096	0.56	72.56	94.02	0.20

HEC-RAS Plan: plmxact1 River: arquillocerro Reach: cerroblanco (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
cerroblanco	960	PR25	15.40	1045.28	1045.86		1045.87	0.001584	0.43	36.19	92.55	0.22
cerroblanco	960	PR50	19.70	1045.28	1045.91		1045.92	0.001778	0.48	40.92	94.86	0.23
cerroblanco	960	PR100	25.00	1045.28	1045.97		1045.98	0.001976	0.54	46.05	96.46	0.25
cerroblanco	960	PR200	31.10	1045.28	1046.02		1046.04	0.002151	0.61	51.39	97.44	0.27
cerroblanco	960	PR500	40.40	1045.28	1046.10		1046.12	0.002355	0.69	58.66	97.98	0.28
cerroblanco	940	PR25	15.40	1045.29	1045.80		1045.82	0.004297	0.59	25.93	85.02	0.34
cerroblanco	940	PR50	19.70	1045.29	1045.85		1045.87	0.004583	0.66	29.64	86.18	0.36
cerroblanco	940	PR100	25.00	1045.29	1045.89		1045.92	0.004952	0.74	33.59	87.29	0.38
cerroblanco	940	PR200	31.10	1045.29	1045.94		1045.97	0.005296	0.82	37.72	88.47	0.40
cerroblanco	940	PR500	40.40	1045.29	1046.00		1046.05	0.005711	0.93	43.49	90.21	0.43
cerroblanco	920	PR25	15.40	1045.28	1045.67		1045.70	0.009989	0.73	21.15	95.90	0.49
cerroblanco	920	PR50	19.70	1045.28	1045.70		1045.74	0.010139	0.81	24.47	96.38	0.51
cerroblanco	920	PR100	25.00	1045.28	1045.74		1045.78	0.010409	0.89	28.07	96.91	0.53
cerroblanco	920	PR200	31.10	1045.28	1045.78		1045.83	0.010576	0.97	31.92	97.47	0.54
cerroblanco	920	PR500	40.40	1045.28	1045.84		1045.90	0.010567	1.08	37.49	98.25	0.56
cerroblanco	900	PR25	15.40	1044.68	1045.45		1045.48	0.012134	0.77	19.98	95.82	0.54
cerroblanco	900	PR50	19.70	1044.68	1045.48		1045.52	0.012118	0.85	23.22	96.27	0.55
cerroblanco	900	PR100	25.00	1044.68	1045.52		1045.56	0.011555	0.92	27.25	96.85	0.55
cerroblanco	900	PR200	31.10	1044.68	1045.57		1045.62	0.010892	0.98	31.71	97.53	0.55
cerroblanco	900	PR500	40.40	1044.68	1045.63		1045.69	0.009932	1.05	38.30	98.53	0.54
cerroblanco	880	PR25	15.40	1044.56	1045.26		1045.28	0.007455	0.67	22.91	93.60	0.43
cerroblanco	880	PR50	19.70	1044.56	1045.31		1045.33	0.007014	0.72	27.18	94.76	0.43
cerroblanco	880	PR100	25.00	1044.56	1045.36		1045.39	0.006582	0.78	32.15	96.08	0.43
cerroblanco	880	PR200	31.10	1044.56	1045.43		1045.46	0.005656	0.81	38.60	97.61	0.41
cerroblanco	880	PR500	40.40	1044.56	1045.51		1045.54	0.005239	0.87	46.57	99.45	0.40
cerroblanco	860	PR25	15.40	1044.50	1045.24		1045.24	0.000846	0.34	45.24	101.03	0.16
cerroblanco	860	PR50	19.70	1044.50	1045.28		1045.28	0.001056	0.40	49.36	102.55	0.18
cerroblanco	860	PR100	25.00	1044.50	1045.32		1045.33	0.001266	0.46	54.32	104.41	0.20
cerroblanco	860	PR200	31.10	1044.50	1045.39		1045.40	0.001350	0.51	61.39	107.21	0.21

HEC-RAS Plan: plmxact1 River: arquillocerro Reach: cerroblanco (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
cerroblanco	860	PR500	40.40	1044.50	1045.47		1045.49	0.001525	0.58	69.99	110.03	0.23
cerroblanco	840	PR25	15.40	1044.42	1045.22		1045.23	0.000719	0.32	47.56	101.33	0.15
cerroblanco	840	PR50	19.70	1044.42	1045.26		1045.26	0.000934	0.38	51.27	102.85	0.17
cerroblanco	840	PR100	25.00	1044.42	1045.30		1045.31	0.001163	0.45	55.77	104.66	0.20
cerroblanco	840	PR200	31.10	1044.42	1045.36		1045.38	0.001263	0.50	62.67	107.39	0.21
cerroblanco	840	PR500	40.40	1044.42	1045.44		1045.46	0.001471	0.57	70.86	110.53	0.23
cerroblanco	820	PR25	15.40	1044.39	1045.20		1045.21	0.001324	0.38	40.52	107.29	0.20
cerroblanco	820	PR50	19.70	1044.39	1045.23		1045.24	0.001948	0.45	43.79	120.33	0.24
cerroblanco	820	PR100	25.00	1044.39	1045.26		1045.28	0.002283	0.52	48.28	121.01	0.26
cerroblanco	820	PR200	31.10	1044.39	1045.33		1045.34	0.002166	0.55	56.14	122.20	0.26
cerroblanco	820	PR500	40.40	1044.39	1045.40		1045.42	0.002286	0.62	64.91	123.51	0.27
cerroblanco	800	PR25	15.40	1044.44	1045.15	1045.15	1045.16	0.003469	0.53	29.17	97.09	0.31
cerroblanco	800	PR50	19.70	1044.44	1045.15	1045.15	1045.17	0.005676	0.68	29.17	97.09	0.39
cerroblanco	800	PR100	25.00	1044.44	1045.16	1045.15	1045.19	0.008923	0.83	30.08	102.95	0.49
cerroblanco	800	PR200	31.10	1044.44	1045.24	1045.15	1045.27	0.006870	0.79	39.42	119.95	0.44
cerroblanco	800	PR500	40.40	1044.44	1045.31	1045.15	1045.35	0.006023	0.84	48.09	120.64	0.42
cerroblanco	780	PR25	15.40	1044.38	1044.96	1044.69	1044.97	0.002438	0.52	29.77	78.49	0.27
cerroblanco	780	PR50	19.70	1044.38	1045.02	1044.72	1045.03	0.002529	0.57	34.74	82.03	0.28
cerroblanco	780	PR100	25.00	1044.38	1045.08		1045.10	0.002668	0.62	40.06	85.26	0.29
cerroblanco	780	PR200	31.10	1044.38	1045.15		1045.18	0.003362	0.66	46.82	107.98	0.32
cerroblanco	780	PR500	40.40	1044.38	1045.23		1045.26	0.003324	0.73	55.21	109.13	0.33
cerroblanco	760	PR25	15.40	1044.34	1044.88		1044.90	0.004770	0.63	24.46	79.44	0.36
cerroblanco	760	PR50	19.70	1044.34	1044.94		1044.97	0.004776	0.67	29.50	87.87	0.37
cerroblanco	760	PR100	25.00	1044.34	1045.00		1045.03	0.004865	0.71	35.16	96.58	0.38
cerroblanco	760	PR200	31.10	1044.34	1045.07		1045.09	0.004863	0.75	41.41	104.76	0.38
cerroblanco	760	PR500	40.40	1044.34	1045.15		1045.18	0.004520	0.81	49.95	107.06	0.38
cerroblanco	740	PR25	15.40	1044.32	1044.81		1044.83	0.003027	0.54	28.49	82.76	0.29
cerroblanco	740	PR50	19.70	1044.32	1044.87		1044.89	0.003304	0.59	33.38	90.70	0.31
cerroblanco	740	PR100	25.00	1044.32	1044.93		1044.95	0.003367	0.64	38.91	94.41	0.32

HEC-RAS Plan: plmxact1 River: arquillocerro Reach: cerroblanco (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
cerroblanco	740	PR200	31.10	1044.32	1044.99		1045.01	0.003411	0.70	44.73	97.37	0.33
cerroblanco	740	PR500	40.40	1044.32	1045.07		1045.10	0.003465	0.76	52.91	101.28	0.34
cerroblanco	720	PR25	15.40	1044.12	1044.77		1044.78	0.001667	0.44	35.20	89.73	0.22
cerroblanco	720	PR50	19.70	1044.12	1044.82		1044.84	0.001850	0.49	39.92	91.83	0.24
cerroblanco	720	PR100	25.00	1044.12	1044.88		1044.90	0.002042	0.55	45.16	94.14	0.26
cerroblanco	720	PR200	31.10	1044.12	1044.94		1044.96	0.002238	0.61	50.68	96.95	0.27
cerroblanco	720	PR500	40.40	1044.12	1045.02		1045.04	0.002488	0.69	58.48	101.41	0.29
cerroblanco	700	PR25	15.40	1044.26	1044.72		1044.73	0.003547	0.55	27.80	87.60	0.31
cerroblanco	700	PR50	19.70	1044.26	1044.76		1044.78	0.003766	0.62	31.92	89.47	0.33
cerroblanco	700	PR100	25.00	1044.26	1044.81		1044.84	0.004004	0.69	36.50	91.59	0.35
cerroblanco	700	PR200	31.10	1044.26	1044.87		1044.90	0.004240	0.75	41.30	93.85	0.36
cerroblanco	700	PR500	40.40	1044.26	1044.94		1044.97	0.004561	0.84	48.05	97.75	0.38
cerroblanco	680	PR25	15.40	1044.30	1044.56		1044.60	0.015275	0.88	17.52	82.57	0.61
cerroblanco	680	PR50	19.70	1044.30	1044.60		1044.65	0.014851	0.95	20.66	84.42	0.62
cerroblanco	680	PR100	25.00	1044.30	1044.64		1044.70	0.014672	1.03	24.17	86.57	0.63
cerroblanco	680	PR200	31.10	1044.30	1044.69		1044.75	0.014484	1.11	27.92	88.67	0.63
cerroblanco	680	PR500	40.40	1044.30	1044.75		1044.82	0.014116	1.21	33.35	91.61	0.64
cerroblanco	660	PR25	15.40	1043.74	1044.29		1044.33	0.012570	0.85	18.08	77.19	0.56
cerroblanco	660	PR50	19.70	1043.74	1044.33		1044.37	0.012533	0.93	21.18	79.05	0.57
cerroblanco	660	PR100	25.00	1043.74	1044.37		1044.43	0.012604	1.01	24.64	81.08	0.59
cerroblanco	660	PR200	31.10	1043.74	1044.42		1044.48	0.012455	1.09	28.48	83.18	0.60
cerroblanco	660	PR500	40.40	1043.74	1044.48		1044.56	0.012361	1.19	33.86	86.13	0.61
cerroblanco	640	PR25	15.40	1043.28	1044.12		1044.14	0.006723	0.65	23.53	93.26	0.42
cerroblanco	640	PR50	19.70	1043.28	1044.17		1044.20	0.006248	0.70	28.27	96.59	0.41
cerroblanco	640	PR100	25.00	1043.28	1044.23		1044.25	0.005861	0.75	33.49	98.32	0.41
cerroblanco	640	PR200	31.10	1043.28	1044.27		1044.30	0.006224	0.82	37.70	99.70	0.43
cerroblanco	640	PR500	40.40	1043.28	1044.33		1044.37	0.006766	0.93	43.45	102.22	0.46
cerroblanco	620	PR25	15.40	1043.47	1043.91	1043.91	1043.94	0.017040	0.79	19.37	115.27	0.62
cerroblanco	620	PR50	19.70	1043.47	1043.91	1043.91	1043.96	0.027885	1.02	19.37	115.27	0.79

HEC-RAS Plan: plmxact1 River: arquillocerro Reach: cerroblanco (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
cerroblanco	620	PR100	25.00	1043.47	1043.91	1043.91	1044.00	0.044907	1.29	19.37	115.27	1.00
cerroblanco	620	PR200	31.10	1043.47	1043.94	1043.94	1044.04	0.043083	1.39	22.43	116.15	1.01
cerroblanco	620	PR500	40.40	1043.47	1043.98	1043.98	1044.09	0.038937	1.49	27.17	117.41	0.99
cerroblanco	600	PR25	15.40	1042.53	1043.26	1043.01	1043.31	0.006059	0.98	15.77	31.62	0.44
cerroblanco	600	PR50	19.70	1042.53	1043.35	1043.07	1043.41	0.006141	1.05	18.72	33.90	0.45
cerroblanco	600	PR100	25.00	1042.53	1043.45	1043.15	1043.52	0.006220	1.13	22.13	36.39	0.46
cerroblanco	600	PR200	31.10	1042.53	1043.56	1043.22	1043.63	0.005925	1.18	26.27	38.78	0.46
cerroblanco	600	PR500	40.40	1042.53	1043.66	1043.33	1043.75	0.006721	1.33	30.41	41.52	0.50
cerroblanco	580	PR25	15.40	1042.37	1043.15	1042.88	1043.19	0.005721	0.94	16.44	33.67	0.43
cerroblanco	580	PR50	19.70	1042.37	1043.24	1042.95	1043.29	0.005823	1.01	19.55	36.37	0.44
cerroblanco	580	PR100	25.00	1042.37	1043.33	1043.02	1043.39	0.005977	1.08	23.17	39.67	0.45
cerroblanco	580	PR200	31.10	1042.37	1043.45	1043.10	1043.51	0.005577	1.10	28.18	44.27	0.44
cerroblanco	580	PR500	40.40	1042.37	1043.53	1043.19	1043.61	0.007158	1.27	31.86	49.02	0.50
cerroblanco	560	PR25	15.40	1042.24	1043.06	1042.76	1043.09	0.004340	0.82	18.71	37.84	0.37
cerroblanco	560	PR50	19.70	1042.24	1043.14	1042.82	1043.18	0.004627	0.89	22.09	41.55	0.39
cerroblanco	560	PR100	25.00	1042.24	1043.23	1042.89	1043.28	0.004976	0.96	26.08	46.46	0.41
cerroblanco	560	PR200	31.10	1042.24	1043.35	1042.96	1043.38	0.006595	0.80	38.72	111.19	0.43
cerroblanco	560	PR500	40.40	1042.24	1043.44	1043.05	1043.47	0.005425	0.83	48.93	116.43	0.41
cerroblanco	540	PR25	15.40	1042.25	1042.94		1042.98	0.007115	0.91	16.88	42.43	0.46
cerroblanco	540	PR50	19.70	1042.25	1043.02		1043.06	0.007603	0.96	20.46	49.84	0.48
cerroblanco	540	PR100	25.00	1042.25	1043.10		1043.15	0.008226	0.98	25.43	63.70	0.50
cerroblanco	540	PR200	31.10	1042.25	1043.18		1043.23	0.008390	1.01	30.92	75.89	0.50
cerroblanco	540	PR500	40.40	1042.25	1043.29		1043.34	0.008618	1.02	39.78	98.23	0.51
cerroblanco	520	PR25	15.40	1042.15	1042.71	1042.60	1042.78	0.015193	1.18	13.00	39.00	0.65
cerroblanco	520	PR50	19.70	1042.15	1042.78	1042.66	1042.85	0.015093	1.24	15.87	44.13	0.66
cerroblanco	520	PR100	25.00	1042.15	1042.85	1042.72	1042.94	0.014643	1.29	19.44	50.12	0.66
cerroblanco	520	PR200	31.10	1042.15	1042.92	1042.79	1043.01	0.014835	1.36	22.89	54.89	0.67
cerroblanco	520	PR500	40.40	1042.15	1043.00	1042.87	1043.11	0.014928	1.45	27.93	61.28	0.68
cerroblanco	500	PR25	15.40	1041.73	1042.23	1042.21	1042.34	0.032785	1.52	10.15	37.39	0.93

HEC-RAS Plan: plmxact1 River: arquillocerro Reach: cerroblanco (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
cerroblanco	500	PR50	19.70	1041.73	1042.27	1042.26	1042.41	0.034038	1.66	11.87	39.31	0.96
cerroblanco	500	PR100	25.00	1041.73	1042.32	1042.32	1042.49	0.036801	1.83	13.64	41.25	1.02
cerroblanco	500	PR200	31.10	1041.73	1042.37	1042.37	1042.56	0.035339	1.93	16.15	43.98	1.01
cerroblanco	500	PR500	40.40	1041.73	1042.46	1042.46	1042.67	0.033925	2.04	19.85	48.27	1.01
cerroblanco	480	PR25	15.40	1041.04	1041.49	1041.49	1041.63	0.038966	1.65	9.33	34.53	1.01
cerroblanco	480	PR50	19.70	1041.04	1041.55	1041.55	1041.70	0.037150	1.73	11.41	38.06	1.01
cerroblanco	480	PR100	25.00	1041.04	1041.59	1041.61	1041.78	0.043532	1.93	12.94	41.04	1.10
cerroblanco	480	PR200	31.10	1041.04	1041.75	1041.67	1041.86	0.030649	1.47	21.10	77.22	0.90
cerroblanco	480	PR500	40.40	1041.04	1041.88	1041.78	1041.96	0.014651	1.28	31.46	81.41	0.66
cerroblanco	460	PR25	15.40	1040.60	1041.36	1041.05	1041.39	0.003821	0.74	20.86	45.18	0.35
cerroblanco	460	PR50	19.70	1040.60	1041.44	1041.11	1041.48	0.003968	0.80	24.72	49.10	0.36
cerroblanco	460	PR100	25.00	1040.60	1041.52	1041.17	1041.56	0.004375	0.88	28.46	52.57	0.38
cerroblanco	460	PR200	31.10	1040.60	1041.62		1041.66	0.004230	0.92	33.79	56.74	0.38
cerroblanco	460	PR500	40.40	1040.60	1041.74		1041.79	0.005227	0.97	41.54	75.27	0.42
cerroblanco	440	PR25	15.40	1040.43	1041.29		1041.32	0.003660	0.75	20.58	42.30	0.34
cerroblanco	440	PR50	19.70	1040.43	1041.36		1041.40	0.003985	0.82	23.88	45.19	0.36
cerroblanco	440	PR100	25.00	1040.43	1041.42		1041.46	0.004824	0.94	26.55	47.51	0.40
cerroblanco	440	PR200	31.10	1040.43	1041.52		1041.57	0.004747	0.99	31.44	51.63	0.40
cerroblanco	440	PR500	40.40	1040.43	1041.61		1041.68	0.005886	1.10	36.57	59.82	0.45
cerroblanco	420	PR25	15.40	1040.39	1041.23		1041.25	0.002908	0.64	24.09	52.76	0.30
cerroblanco	420	PR50	19.70	1040.39	1041.30		1041.32	0.003193	0.70	27.98	56.86	0.32
cerroblanco	420	PR100	25.00	1040.39	1041.34		1041.37	0.004195	0.83	30.24	59.30	0.37
cerroblanco	420	PR200	31.10	1040.39	1041.42		1041.46	0.005935	0.86	36.19	86.84	0.42
cerroblanco	420	PR500	40.40	1040.39	1041.52		1041.56	0.005309	0.90	44.65	91.22	0.41
cerroblanco	400	PR25	15.40	1040.36	1041.18		1041.19	0.002176	0.49	31.48	82.90	0.25
cerroblanco	400	PR50	19.70	1040.36	1041.25		1041.27	0.002188	0.52	37.56	89.41	0.26
cerroblanco	400	PR100	25.00	1040.36	1041.28		1041.30	0.003044	0.63	39.61	91.52	0.31
cerroblanco	400	PR200	31.10	1040.36	1041.35		1041.37	0.002868	0.67	46.70	95.22	0.30
cerroblanco	400	PR500	40.40	1040.36	1041.45		1041.48	0.002708	0.71	56.57	99.48	0.30

HEC-RAS Plan: plmxact1 River: arquillocerro Reach: cerroblanco (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
cerroblanco	380	PR25	15.40	1040.34	1041.16		1041.17	0.000933	0.36	42.49	92.97	0.17
cerroblanco	380	PR50	19.70	1040.34	1041.23		1041.24	0.000992	0.40	49.08	96.44	0.18
cerroblanco	380	PR100	25.00	1040.34	1041.24		1041.25	0.001497	0.50	50.15	96.94	0.22
cerroblanco	380	PR200	31.10	1040.34	1041.32		1041.33	0.001509	0.54	57.70	99.85	0.23
cerroblanco	380	PR500	40.40	1040.34	1041.42		1041.44	0.001538	0.59	68.07	103.37	0.23
cerroblanco	360	PR25	15.40	1040.20	1041.15		1041.16	0.000268	0.24	64.30	102.85	0.10
cerroblanco	360	PR50	19.70	1040.20	1041.22		1041.23	0.000320	0.28	71.44	105.43	0.11
cerroblanco	360	PR100	25.00	1040.20	1041.23		1041.23	0.000499	0.35	72.17	105.69	0.13
cerroblanco	360	PR200	31.10	1040.20	1041.30		1041.31	0.000561	0.39	80.30	108.52	0.14
cerroblanco	360	PR500	40.40	1040.20	1041.41		1041.42	0.000642	0.44	91.43	112.20	0.16
cerroblanco	340	PR25	15.40	1040.30	1041.15		1041.15	0.000285	0.24	63.89	106.01	0.10
cerroblanco	340	PR50	19.70	1040.30	1041.21		1041.22	0.000342	0.28	71.18	109.87	0.11
cerroblanco	340	PR100	25.00	1040.30	1041.22		1041.22	0.000543	0.35	71.51	110.01	0.14
cerroblanco	340	PR200	31.10	1040.30	1041.29		1041.30	0.000605	0.39	79.85	113.34	0.15
cerroblanco	340	PR500	40.40	1040.30	1041.39		1041.40	0.000687	0.44	91.33	117.78	0.16
cerroblanco	320	PR25	15.40	1040.28	1041.14		1041.14	0.000410	0.27	57.78	108.26	0.12
cerroblanco	320	PR50	19.70	1040.28	1041.21		1041.21	0.000467	0.30	65.03	110.81	0.13
cerroblanco	320	PR100	25.00	1040.28	1041.20		1041.21	0.000762	0.39	64.77	110.72	0.16
cerroblanco	320	PR200	31.10	1040.28	1041.28		1041.29	0.000818	0.43	72.98	113.49	0.17
cerroblanco	320	PR500	40.40	1040.28	1041.37		1041.39	0.000892	0.48	84.21	116.94	0.18
cerroblanco	300	PR25	15.40	1040.32	1041.10	1040.81	1041.12	0.004029	0.72	21.46	50.46	0.35
cerroblanco	300	PR50	19.70	1040.32	1041.19	1040.86	1041.20	0.001054	0.38	51.42	113.35	0.18
cerroblanco	300	PR100	25.00	1040.32	1041.18	1040.92	1041.19	0.001874	0.50	49.79	112.69	0.24
cerroblanco	300	PR200	31.10	1040.32	1041.25	1040.99	1041.26	0.001805	0.54	58.09	116.10	0.24
cerroblanco	300	PR500	40.40	1040.32	1041.34	1041.07	1041.36	0.001754	0.58	69.47	120.02	0.24
cerroblanco	280	PR25	15.40	1040.11	1040.80	1040.80	1040.93	0.037039	1.61	9.55	35.16	0.99
cerroblanco	280	PR50	19.70	1040.11	1040.85	1040.85	1041.00	0.035828	1.70	11.59	38.53	0.99
cerroblanco	280	PR100	25.00	1040.11	1040.91	1040.91	1041.07	0.034979	1.79	13.95	42.05	0.99
cerroblanco	280	PR200	31.10	1040.11	1040.97	1040.97	1041.15	0.034019	1.88	16.53	45.38	0.99
cerroblanco	280	PR500	40.40	1040.11	1041.05	1041.05	1041.25	0.032771	1.97	20.51	51.08	0.99

HEC-RAS Plan: plmxact1 River: arquillocerro Reach: cerroblanco (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
cerroblanco	260	PR25	15.40	1039.06	1040.02	1039.62	1040.03	0.003983	0.61	25.19	74.69	0.34
cerroblanco	260	PR50	19.70	1039.06	1040.11	1039.69	1040.13	0.002899	0.60	32.76	78.47	0.30
cerroblanco	260	PR100	25.00	1039.06	1040.22	1039.76	1040.24	0.002337	0.61	41.05	82.07	0.27
cerroblanco	260	PR200	31.10	1039.06	1040.32	1039.87	1040.34	0.002049	0.63	49.53	85.69	0.26
cerroblanco	260	PR500	40.40	1039.06	1040.45	1039.97	1040.47	0.001857	0.66	61.12	90.94	0.26
cerroblanco	240	PR25	15.40	1038.92	1040.01		1040.01	0.000297	0.28	55.93	78.35	0.10
cerroblanco	240	PR50	19.70	1038.92	1040.11		1040.11	0.000337	0.31	63.78	82.51	0.11
cerroblanco	240	PR100	25.00	1038.92	1040.21		1040.22	0.000380	0.35	72.43	86.86	0.12
cerroblanco	240	PR200	31.10	1038.92	1040.31		1040.32	0.000425	0.38	81.37	91.18	0.13
cerroblanco	240	PR500	40.40	1038.92	1040.44		1040.45	0.000488	0.43	93.61	96.84	0.14
cerroblanco	220	PR25	15.40	1039.02	1040.00		1040.00	0.000884	0.41	37.56	65.55	0.17
cerroblanco	220	PR50	19.70	1039.02	1040.09		1040.10	0.000930	0.45	44.07	70.20	0.18
cerroblanco	220	PR100	25.00	1039.02	1040.19		1040.20	0.000978	0.49	51.35	74.71	0.19
cerroblanco	220	PR200	31.10	1039.02	1040.29		1040.31	0.001031	0.53	58.91	79.00	0.20
cerroblanco	220	PR500	40.40	1039.02	1040.42		1040.44	0.001113	0.58	69.38	85.06	0.21
cerroblanco	200	PR25	15.40	1039.06	1039.95		1039.97	0.002807	0.68	22.80	44.73	0.30
cerroblanco	200	PR50	19.70	1039.06	1040.04		1040.07	0.002856	0.73	27.09	48.23	0.31
cerroblanco	200	PR100	25.00	1039.06	1040.14		1040.17	0.002955	0.78	31.92	52.18	0.32
cerroblanco	200	PR200	31.10	1039.06	1040.23		1040.27	0.003076	0.84	37.02	56.12	0.33
cerroblanco	200	PR500	40.40	1039.06	1040.36		1040.40	0.003197	0.92	44.11	60.45	0.34
cerroblanco	180	PR25	15.40	1038.95	1039.88		1039.91	0.003362	0.74	20.78	40.61	0.33
cerroblanco	180	PR50	19.70	1038.95	1039.97		1040.01	0.003519	0.80	24.55	44.10	0.34
cerroblanco	180	PR100	25.00	1038.95	1040.07		1040.10	0.003700	0.87	28.79	47.70	0.36
cerroblanco	180	PR200	31.10	1038.95	1040.16		1040.20	0.003909	0.94	33.20	51.14	0.37
cerroblanco	180	PR500	40.40	1038.95	1040.27		1040.32	0.004182	1.03	39.37	55.63	0.39
cerroblanco	160	PR25	15.40	1038.96	1039.83	1039.48	1039.85	0.003006	0.66	23.24	49.42	0.31
cerroblanco	160	PR50	19.70	1038.96	1039.91	1039.54	1039.94	0.003177	0.71	27.75	55.47	0.32
cerroblanco	160	PR100	25.00	1038.96	1040.01	1039.60	1040.03	0.003136	0.67	37.05	78.97	0.31
cerroblanco	160	PR200	31.10	1038.96	1040.11	1039.66	1040.13	0.002693	0.69	44.77	81.40	0.30

HEC-RAS Plan: plmxact1 River: arquillocerro Reach: cerroblanco (Continued)

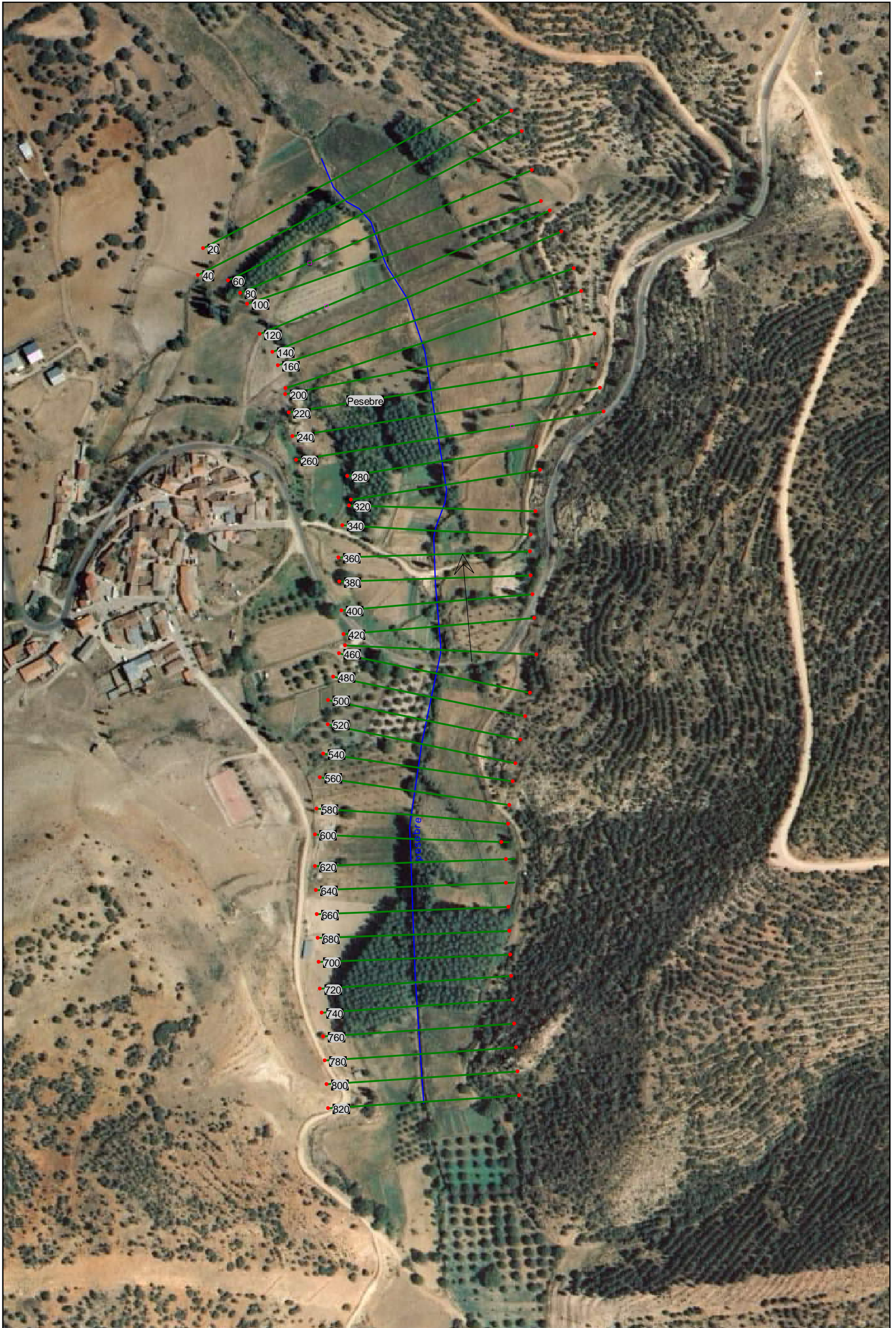
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
cerroblanco	160	PR500	40.40	1038.96	1040.23	1039.75	1040.25	0.002417	0.74	54.83	84.01	0.29
cerroblanco	140	PR25	15.40	1038.44	1039.81		1039.82	0.000564	0.34	44.93	71.94	0.14
cerroblanco	140	PR50	19.70	1038.44	1039.90		1039.91	0.000630	0.38	51.26	75.13	0.15
cerroblanco	140	PR100	25.00	1038.44	1039.99		1040.00	0.000703	0.43	58.34	78.75	0.16
cerroblanco	140	PR200	31.10	1038.44	1040.09		1040.10	0.000863	0.47	66.02	90.36	0.18
cerroblanco	140	PR500	40.40	1038.44	1040.21		1040.22	0.000969	0.52	77.84	100.51	0.19
cerroblanco	120	PR25	15.40	1038.79	1039.79		1039.80	0.001095	0.45	34.18	60.80	0.19
cerroblanco	120	PR50	19.70	1038.79	1039.88		1039.89	0.001257	0.50	39.50	66.95	0.21
cerroblanco	120	PR100	25.00	1038.79	1039.97		1039.98	0.001380	0.55	45.73	72.41	0.22
cerroblanco	120	PR200	31.10	1038.79	1040.06		1040.07	0.001472	0.59	52.47	77.21	0.23
cerroblanco	120	PR500	40.40	1038.79	1040.17		1040.20	0.001567	0.65	61.80	82.21	0.24
cerroblanco	100	PR25	15.40	1039.03	1039.73		1039.76	0.004769	0.80	19.32	44.03	0.38
cerroblanco	100	PR50	19.70	1039.03	1039.81		1039.84	0.004950	0.87	22.73	47.00	0.40
cerroblanco	100	PR100	25.00	1039.03	1039.89		1039.93	0.005165	0.93	26.74	50.92	0.41
cerroblanco	100	PR200	31.10	1039.03	1039.97		1040.02	0.005387	1.00	31.14	55.45	0.43
cerroblanco	100	PR500	40.40	1039.03	1040.08		1040.14	0.005696	1.07	37.64	62.72	0.44
cerroblanco	80	PR25	15.40	1038.93	1039.39	1039.39	1039.54	0.037505	1.71	8.99	30.54	1.01
cerroblanco	80	PR50	19.70	1038.93	1039.45	1039.45	1039.62	0.036230	1.80	10.95	33.69	1.01
cerroblanco	80	PR100	25.00	1038.93	1039.52	1039.52	1039.70	0.035095	1.90	13.15	36.33	1.01
cerroblanco	80	PR200	31.10	1038.93	1039.58	1039.58	1039.78	0.034201	1.99	15.60	39.41	1.01
cerroblanco	80	PR500	40.40	1038.93	1039.67	1039.67	1039.89	0.032713	2.10	19.21	43.29	1.01
cerroblanco	60	PR25	15.40	1038.58	1039.18	1038.95	1039.22	0.005382	0.82	18.75	44.74	0.40
cerroblanco	60	PR50	19.70	1038.58	1039.25	1039.00	1039.29	0.005541	0.89	22.02	47.25	0.42
cerroblanco	60	PR100	25.00	1038.58	1039.33	1039.06	1039.38	0.005709	0.97	25.76	50.00	0.43
cerroblanco	60	PR200	31.10	1038.58	1039.41	1039.12	1039.46	0.005868	1.05	29.73	52.64	0.44
cerroblanco	60	PR500	40.40	1038.58	1039.51	1039.20	1039.58	0.006022	1.14	35.39	56.06	0.46
cerroblanco	40	PR25	15.40	1038.50	1039.12		1039.14	0.002769	0.61	25.18	56.81	0.29
cerroblanco	40	PR50	19.70	1038.50	1039.19		1039.21	0.002903	0.67	29.22	59.01	0.31
cerroblanco	40	PR100	25.00	1038.50	1039.26		1039.29	0.003042	0.74	33.74	61.26	0.32

HEC-RAS Plan: plmxact1 River: arquillocerro Reach: cerroblanco (Continued)

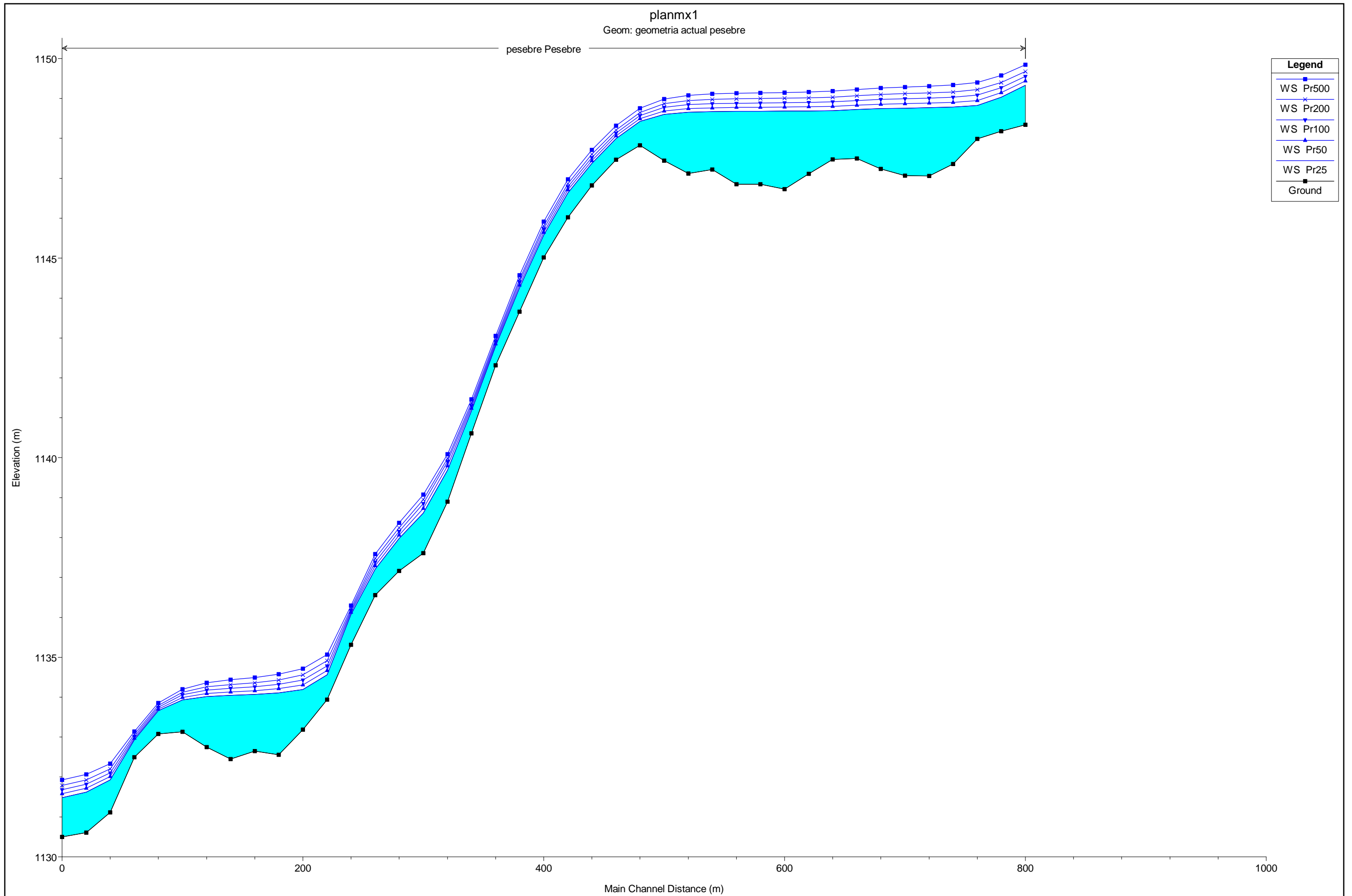
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
cerroblanco	40	PR200	31.10	1038.50	1039.34		1039.37	0.003196	0.81	38.48	63.64	0.33
cerroblanco	40	PR500	40.40	1038.50	1039.44		1039.48	0.003387	0.89	45.17	67.02	0.35
cerroblanco	20	PR25	15.40	1038.48	1039.04	1038.82	1039.07	0.004593	0.71	21.77	57.72	0.37
cerroblanco	20	PR50	19.70	1038.48	1039.11	1038.86	1039.14	0.004592	0.76	25.78	60.87	0.37
cerroblanco	20	PR100	25.00	1038.48	1039.18	1038.91	1039.22	0.004594	0.82	30.39	64.26	0.38
cerroblanco	20	PR200	31.10	1038.48	1039.26	1038.96	1039.30	0.004591	0.88	35.24	67.05	0.39
cerroblanco	20	PR500	40.40	1038.48	1039.36	1039.03	1039.40	0.004598	0.96	42.17	70.99	0.40

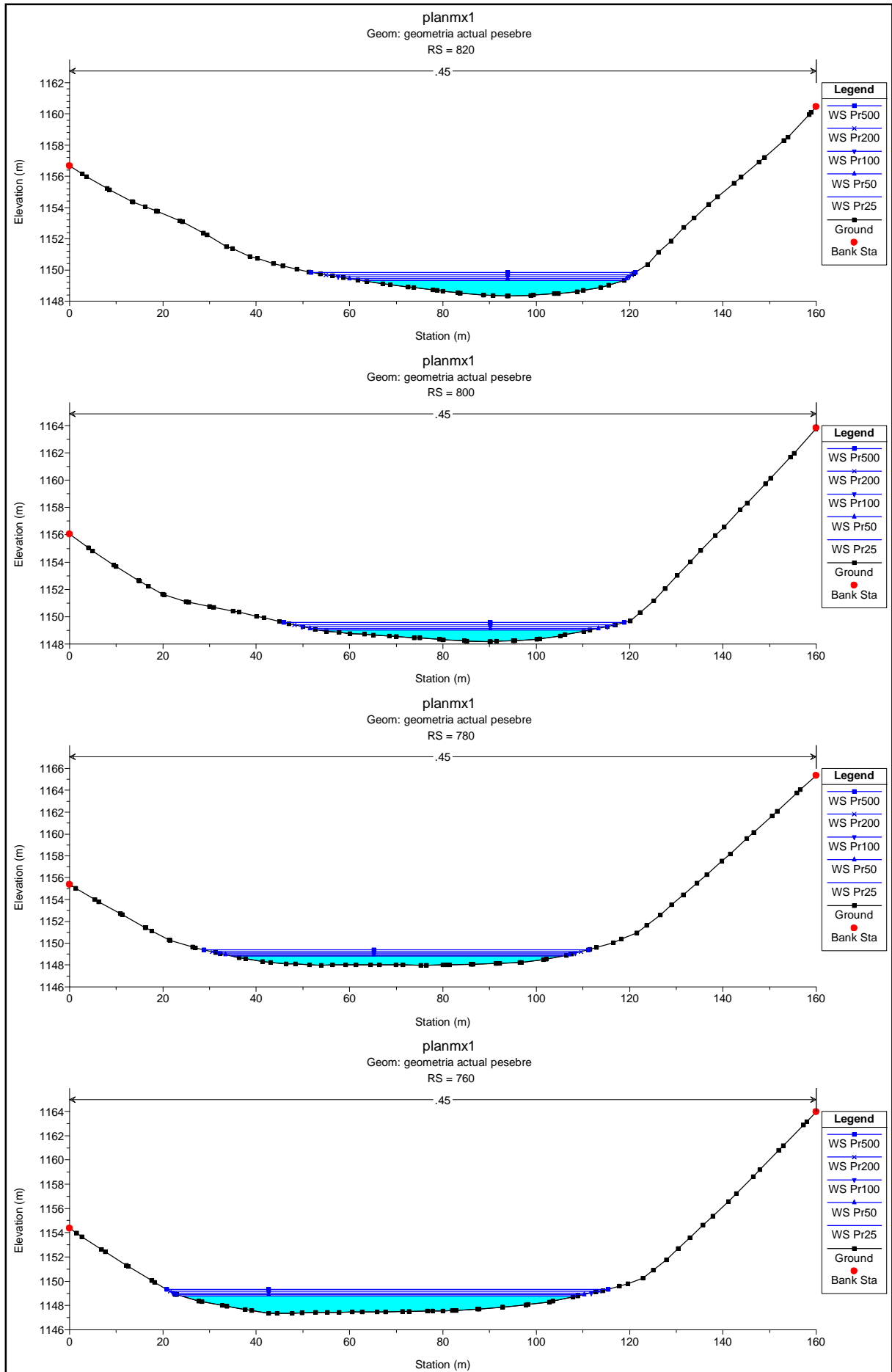
ANEXO 2. LISTADOS RESULTADOS HIDRÁULICOS. HEC-RAS

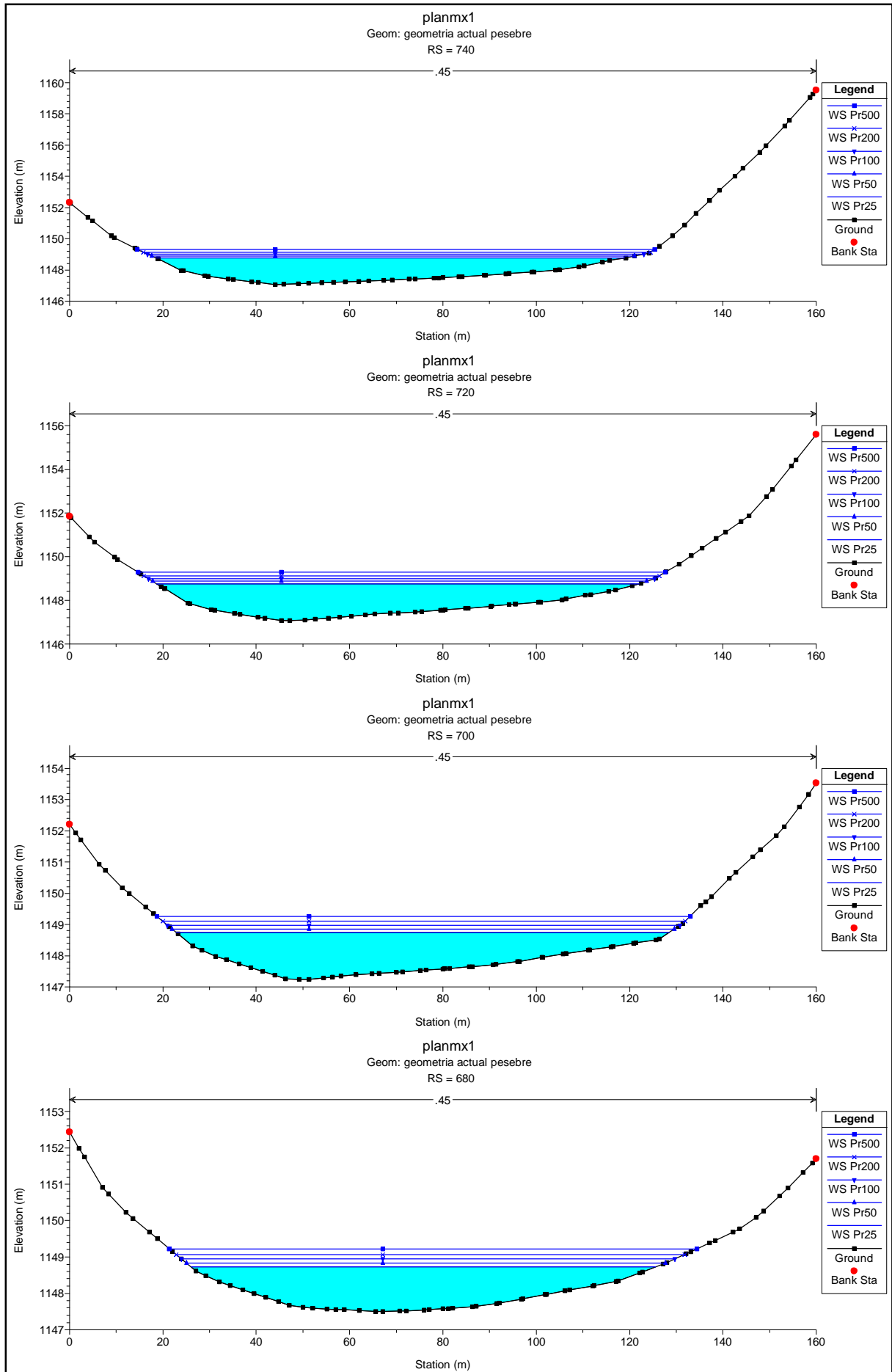
- **PESEBRE**

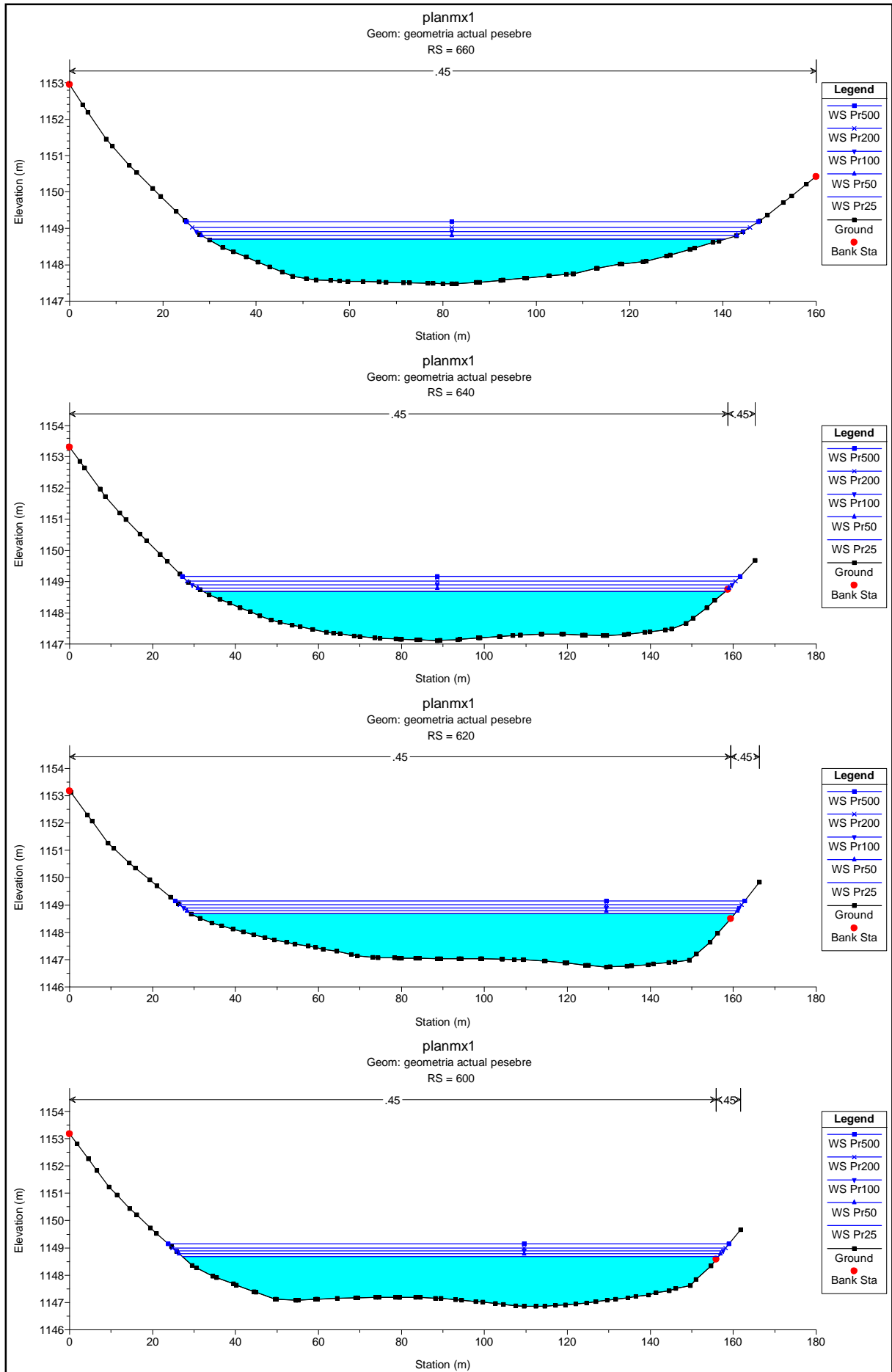


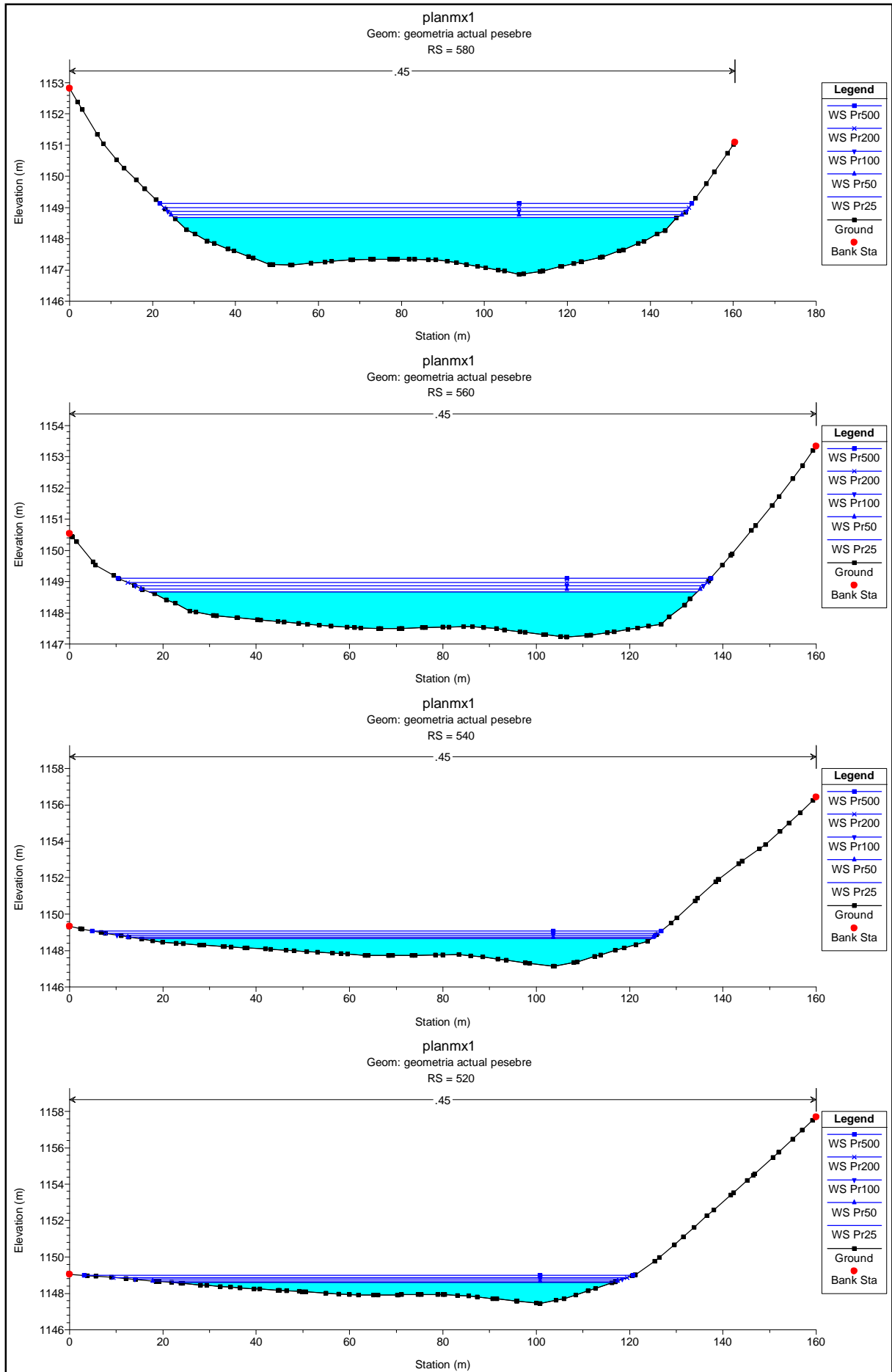
1 cm Horiz. = 30 m 1 cm Vert. = 30 m

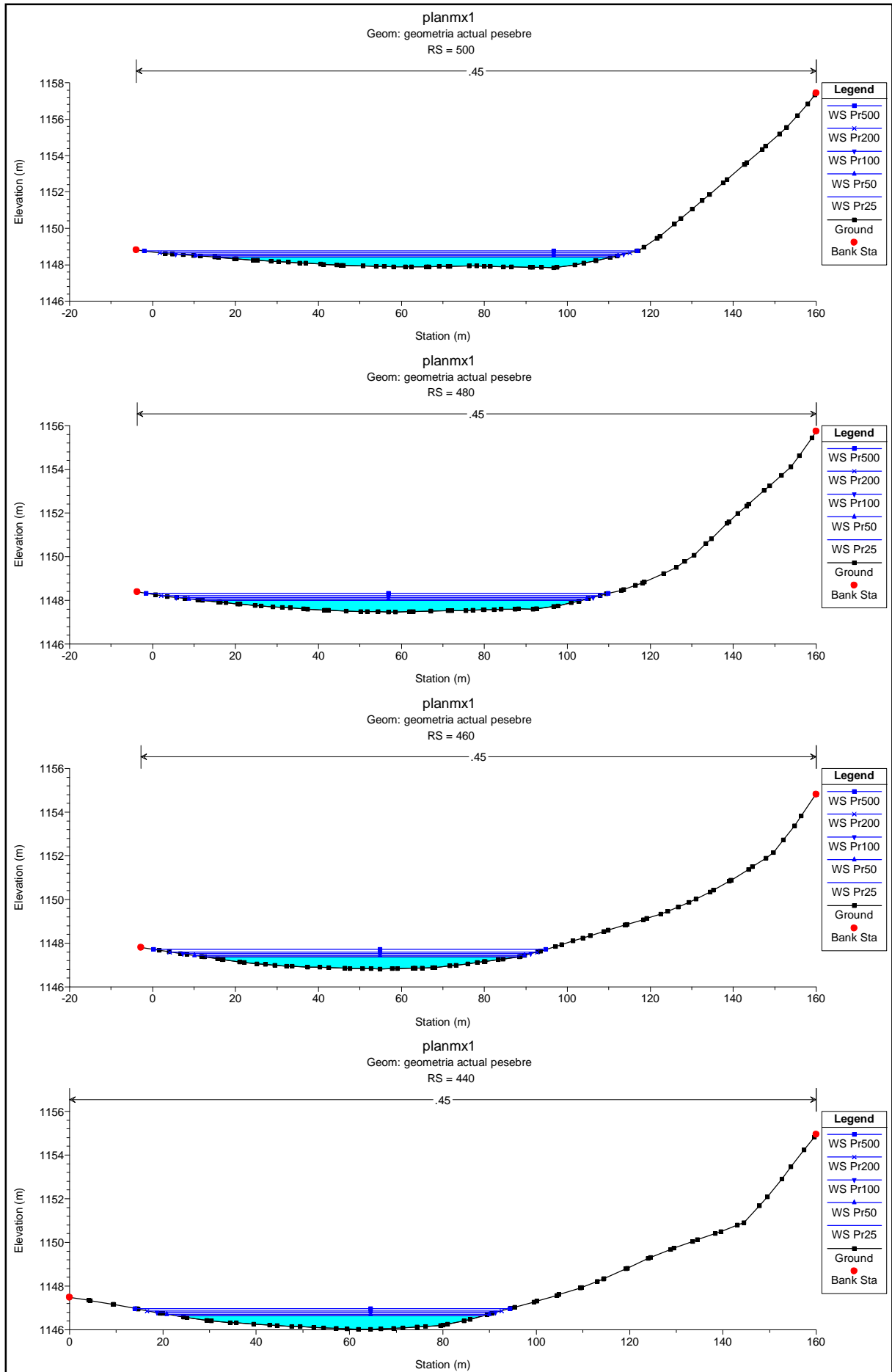


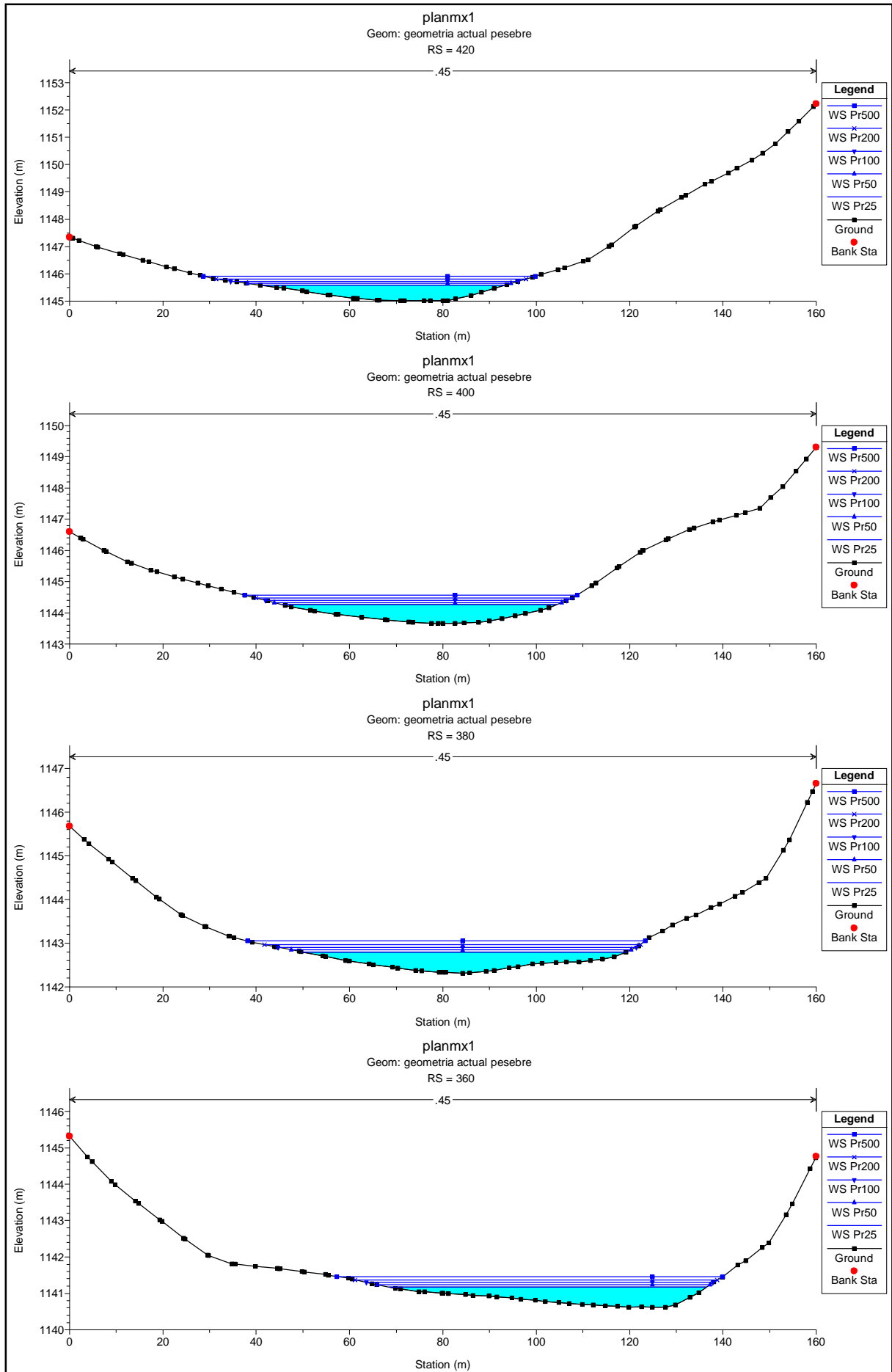


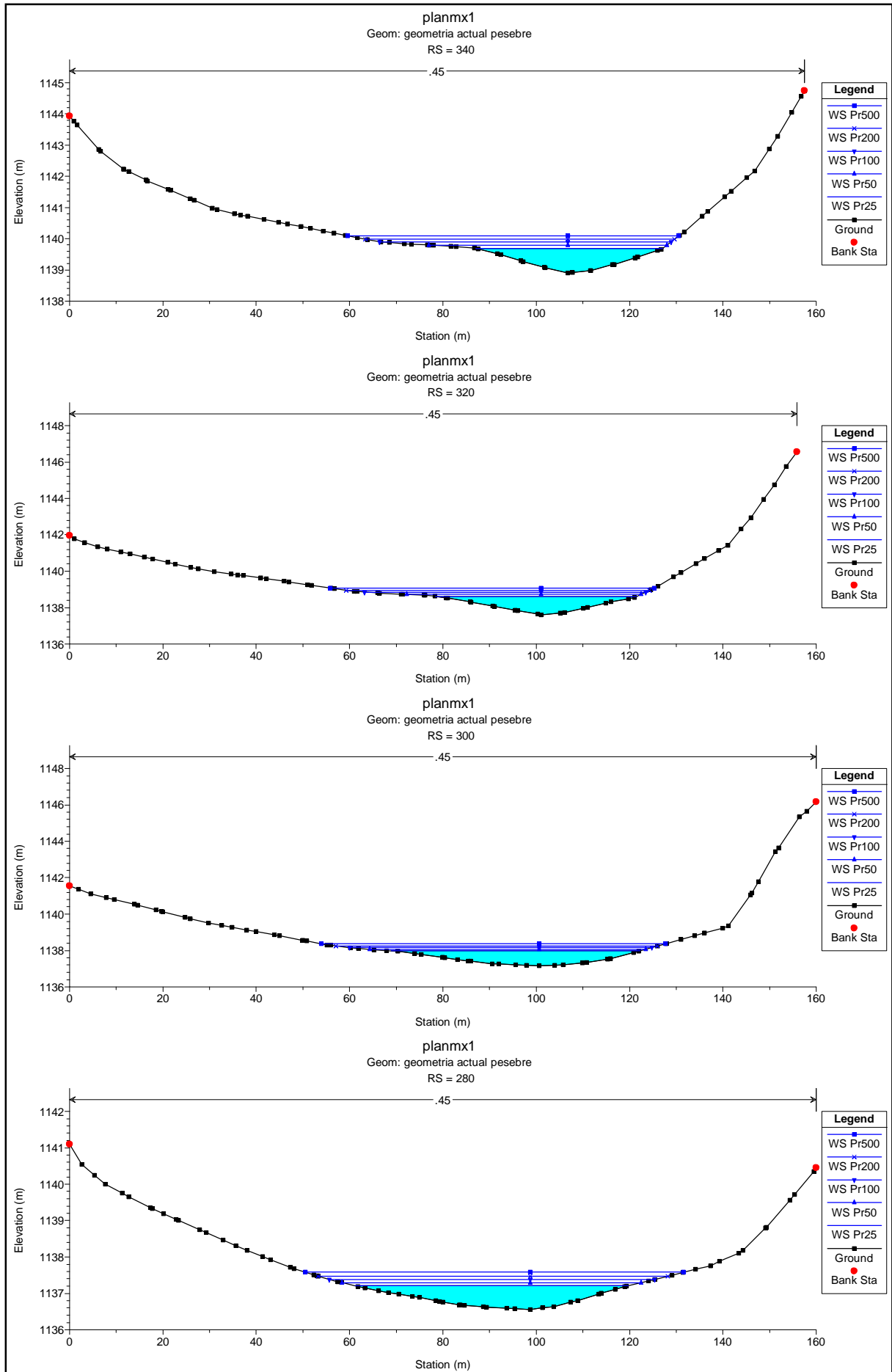


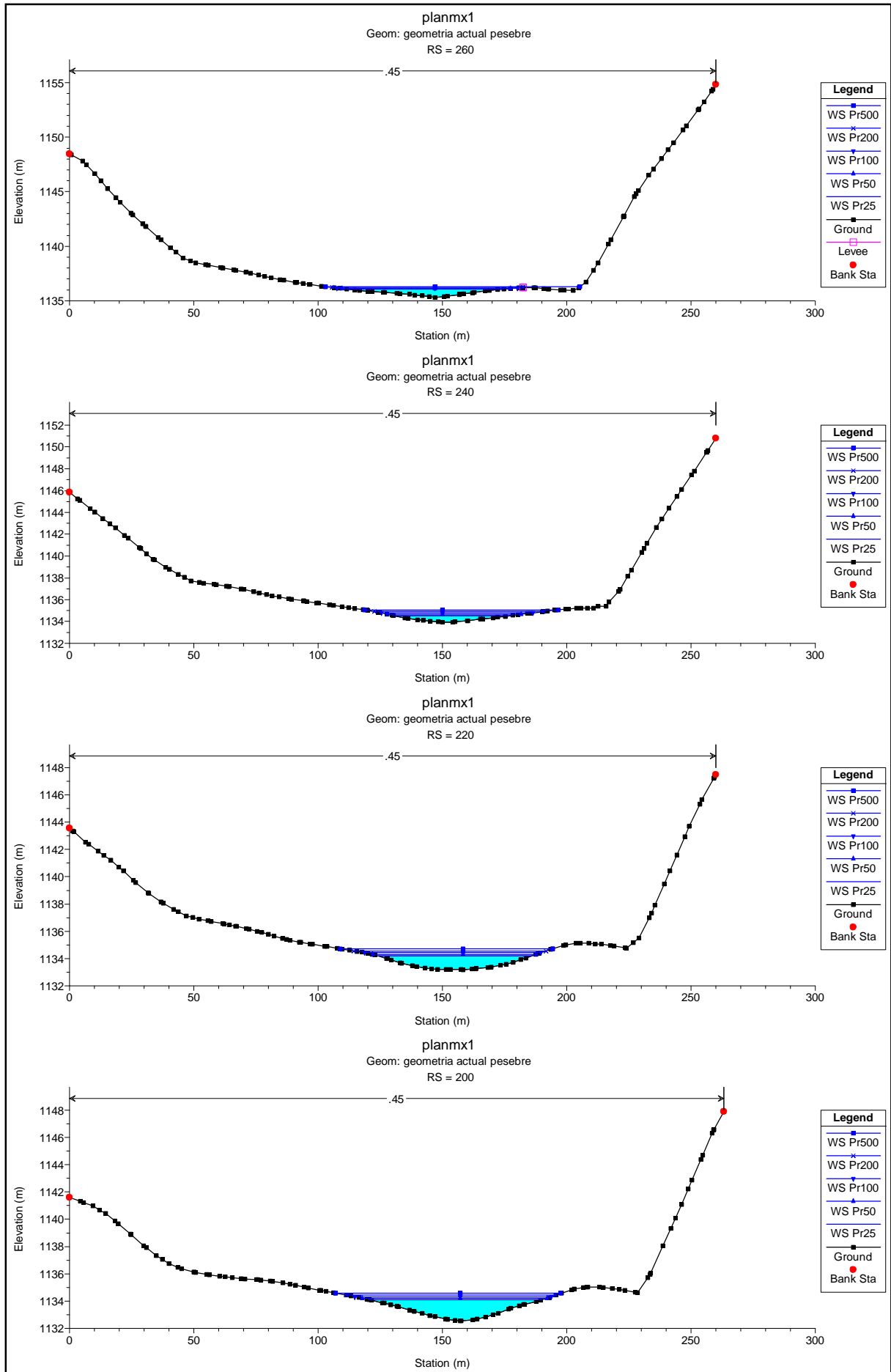


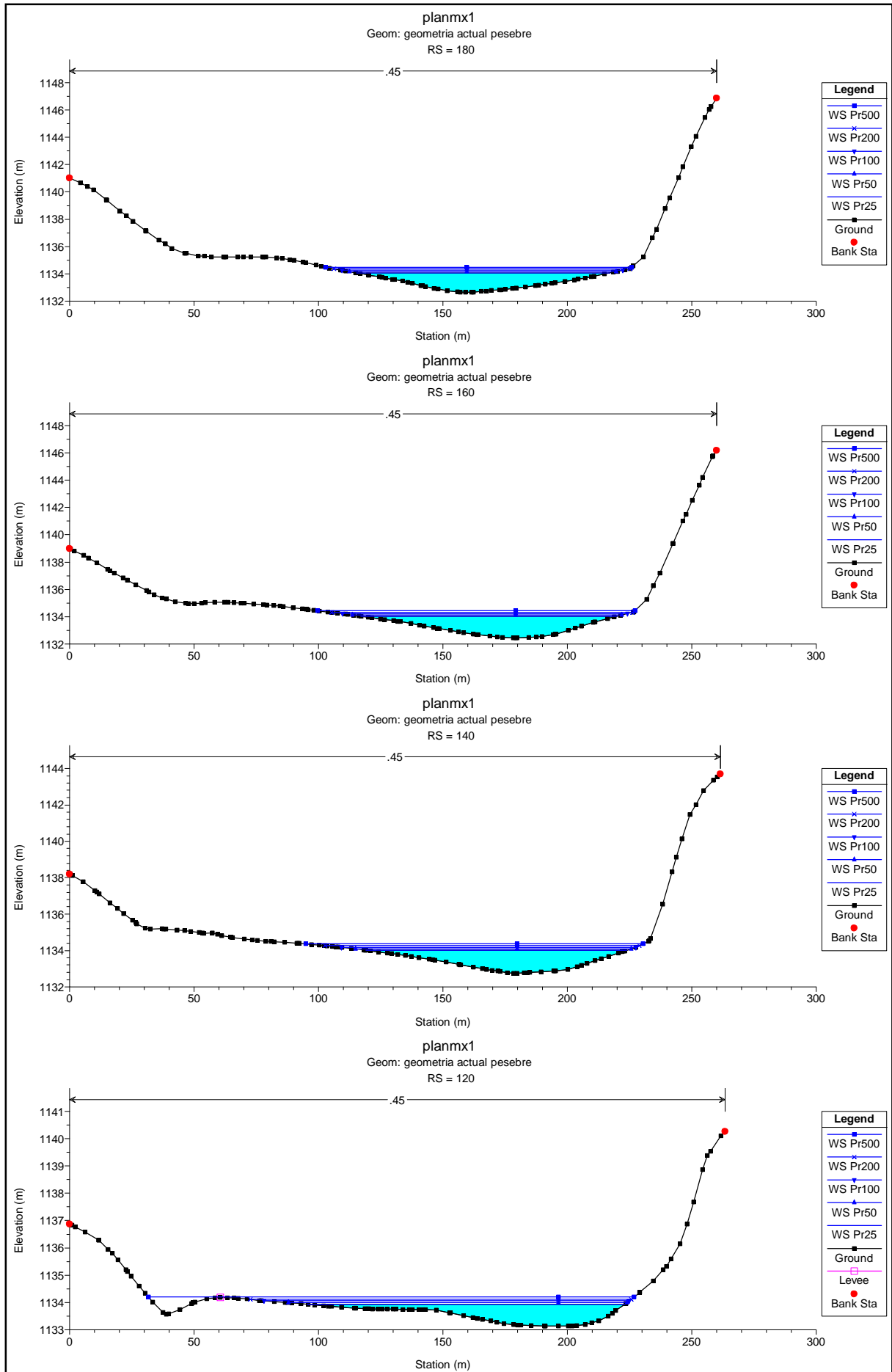


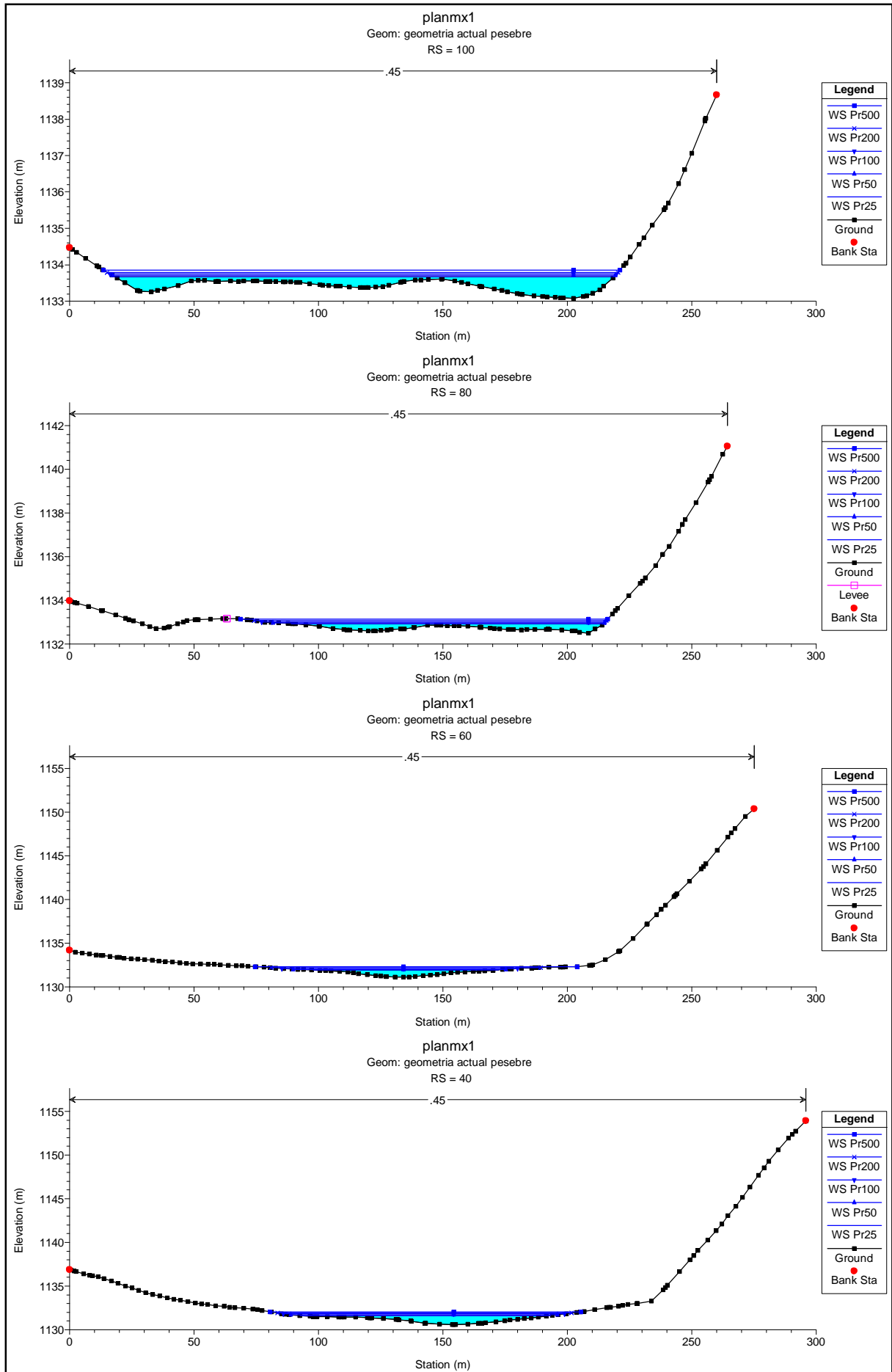


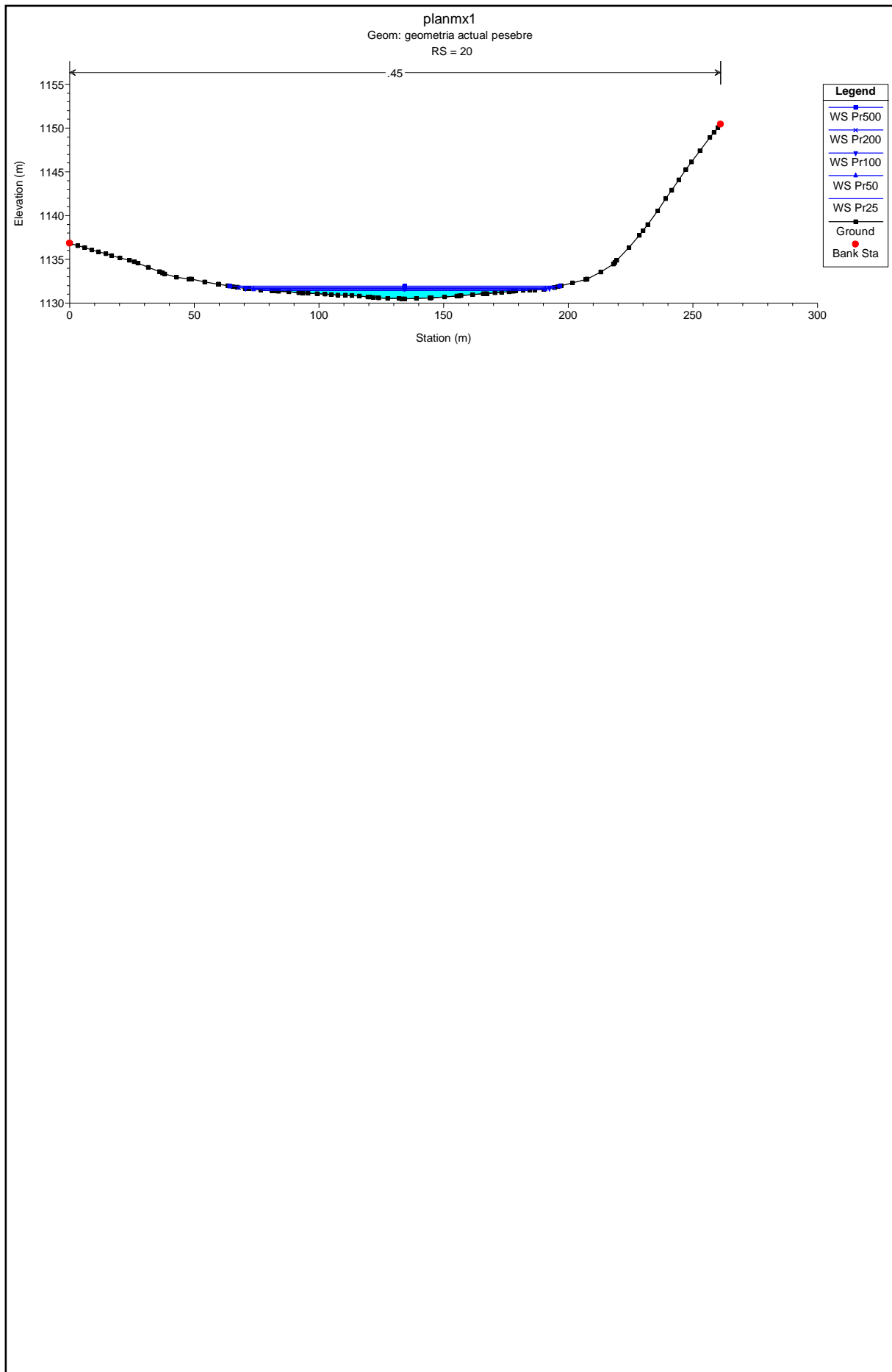












HEC-RAS Plan: plmx1 River: pesebre Reach: Pesebre

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Pesebre	820	Pr25	6.31	1148.34	1149.33	1148.61	1149.33	0.011555	0.18	35.83	56.56	0.07
Pesebre	820	Pr50	8.10	1148.34	1149.44	1148.65	1149.44	0.011929	0.19	42.05	59.41	0.07
Pesebre	820	Pr100	10.30	1148.34	1149.55	1148.68	1149.56	0.012175	0.21	49.23	62.38	0.08
Pesebre	820	Pr200	12.90	1148.34	1149.68	1148.72	1149.68	0.012388	0.23	57.18	65.54	0.08
Pesebre	820	Pr500	16.80	1148.34	1149.85	1148.78	1149.85	0.012481	0.25	68.44	69.50	0.08
Pesebre	800	Pr25	6.31	1148.18	1149.03		1149.03	0.020008	0.21	30.76	58.30	0.09
Pesebre	800	Pr50	8.10	1148.18	1149.15		1149.15	0.018278	0.22	37.57	61.74	0.09
Pesebre	800	Pr100	10.30	1148.18	1149.27		1149.27	0.016824	0.23	45.51	65.37	0.09
Pesebre	800	Pr200	12.90	1148.18	1149.40		1149.40	0.015583	0.24	54.32	68.52	0.09
Pesebre	800	Pr500	16.80	1148.18	1149.58		1149.58	0.014477	0.25	66.72	72.92	0.08
Pesebre	780	Pr25	6.31	1147.99	1148.83		1148.83	0.006251	0.13	47.18	70.97	0.05
Pesebre	780	Pr50	8.10	1147.99	1148.95		1148.95	0.006045	0.14	56.21	73.73	0.05
Pesebre	780	Pr100	10.30	1147.99	1149.08		1149.09	0.005954	0.16	66.15	76.38	0.05
Pesebre	780	Pr200	12.90	1147.99	1149.22		1149.22	0.005931	0.17	76.85	79.02	0.05
Pesebre	780	Pr500	16.80	1147.99	1149.40		1149.40	0.006000	0.18	91.27	82.42	0.06
Pesebre	760	Pr25	6.31	1147.36	1148.79		1148.79	0.001034	0.07	86.97	84.89	0.02
Pesebre	760	Pr50	8.10	1147.36	1148.91		1148.91	0.001218	0.08	97.32	87.44	0.03
Pesebre	760	Pr100	10.30	1147.36	1149.03		1149.03	0.001410	0.09	108.66	89.64	0.03
Pesebre	760	Pr200	12.90	1147.36	1149.17		1149.17	0.001611	0.11	120.72	91.93	0.03
Pesebre	760	Pr500	16.80	1147.36	1149.34		1149.34	0.001869	0.12	136.87	94.61	0.03
Pesebre	740	Pr25	6.31	1147.06	1148.77		1148.77	0.000525	0.06	113.98	100.43	0.02
Pesebre	740	Pr50	8.10	1147.06	1148.89		1148.89	0.000645	0.06	125.93	103.43	0.02
Pesebre	740	Pr100	10.30	1147.06	1149.01		1149.01	0.000779	0.07	139.02	106.36	0.02
Pesebre	740	Pr200	12.90	1147.06	1149.14		1149.14	0.000915	0.08	152.98	108.74	0.02
Pesebre	740	Pr500	16.80	1147.06	1149.31		1149.31	0.001088	0.10	171.50	110.84	0.03
Pesebre	720	Pr25	6.31	1147.07	1148.76		1148.76	0.000580	0.06	111.95	103.43	0.02
Pesebre	720	Pr50	8.10	1147.07	1148.88		1148.88	0.000702	0.07	123.96	105.91	0.02
Pesebre	720	Pr100	10.30	1147.07	1149.00		1149.00	0.000839	0.08	137.05	108.48	0.02
Pesebre	720	Pr200	12.90	1147.07	1149.12		1149.12	0.000977	0.09	150.95	110.49	0.02
Pesebre	720	Pr500	16.80	1147.07	1149.29		1149.29	0.001163	0.10	169.40	113.00	0.03

HEC-RAS Plan: plmx1 River: pesebre Reach: Pesebre (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Pesebre	700	Pr25	6.31	1147.24	1148.75		1148.75	0.000845	0.06	100.81	105.63	0.02
Pesebre	700	Pr50	8.10	1147.24	1148.86		1148.86	0.000983	0.07	112.77	107.65	0.02
Pesebre	700	Pr100	10.30	1147.24	1148.98		1148.98	0.001136	0.08	125.73	109.84	0.02
Pesebre	700	Pr200	12.90	1147.24	1149.10		1149.10	0.001293	0.09	139.48	111.92	0.03
Pesebre	700	Pr500	16.80	1147.24	1149.26		1149.26	0.001498	0.11	157.71	114.30	0.03
Pesebre	680	Pr25	6.31	1147.50	1148.72		1148.72	0.001485	0.08	83.10	99.48	0.03
Pesebre	680	Pr50	8.10	1147.50	1148.83		1148.83	0.001686	0.09	94.11	102.65	0.03
Pesebre	680	Pr100	10.30	1147.50	1148.95		1148.95	0.001899	0.10	106.16	105.80	0.03
Pesebre	680	Pr200	12.90	1147.50	1149.07		1149.07	0.002116	0.11	119.06	109.03	0.03
Pesebre	680	Pr500	16.80	1147.50	1149.23		1149.23	0.002394	0.12	136.43	113.11	0.04
Pesebre	660	Pr25	6.31	1147.47	1148.70		1148.70	0.001114	0.07	94.51	110.64	0.02
Pesebre	660	Pr50	8.10	1147.47	1148.80		1148.80	0.001301	0.08	106.34	114.73	0.03
Pesebre	660	Pr100	10.30	1147.47	1148.92		1148.92	0.001475	0.09	119.29	117.18	0.03
Pesebre	660	Pr200	12.90	1147.47	1149.03		1149.03	0.001650	0.10	133.08	119.52	0.03
Pesebre	660	Pr500	16.80	1147.47	1149.18		1149.18	0.001884	0.11	151.39	122.56	0.03
Pesebre	640	Pr25	6.31	1147.11	1148.69		1148.69	0.000277	0.04	151.09	125.87	0.01
Pesebre	640	Pr50	8.10	1147.11	1148.79		1148.79	0.000354	0.05	164.11	128.07	0.01
Pesebre	640	Pr100	10.30	1147.11	1148.90		1148.90	0.000441	0.06	178.21	130.22	0.02
Pesebre	640	Pr200	12.90	1147.11	1149.01		1149.01	0.000538	0.07	193.15	132.27	0.02
Pesebre	640	Pr500	16.80	1147.11	1149.16		1149.16	0.000670	0.08	212.85	134.44	0.02
Pesebre	620	Pr25	6.31	1146.73	1148.69		1148.69	0.000148	0.03	185.07	131.25	0.01
Pesebre	620	Pr50	8.10	1146.73	1148.79		1148.79	0.000195	0.04	198.45	132.58	0.01
Pesebre	620	Pr100	10.30	1146.73	1148.89		1148.89	0.000253	0.05	212.80	133.99	0.01
Pesebre	620	Pr200	12.90	1146.73	1149.01		1149.01	0.000319	0.06	227.92	135.46	0.01
Pesebre	620	Pr500	16.80	1146.73	1149.15		1149.15	0.000416	0.07	247.76	137.36	0.02
Pesebre	600	Pr25	6.31	1146.85	1148.68		1148.68	0.000157	0.03	180.93	129.26	0.01
Pesebre	600	Pr50	8.10	1146.85	1148.78		1148.78	0.000207	0.04	193.98	130.54	0.01
Pesebre	600	Pr100	10.30	1146.85	1148.89		1148.89	0.000268	0.05	207.95	131.90	0.01
Pesebre	600	Pr200	12.90	1146.85	1149.00		1149.00	0.000338	0.06	222.66	133.31	0.01

HEC-RAS Plan: plmx1 River: pesebre Reach: Pesebre (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Pesebre	600	Pr500	16.80	1146.85	1149.14		1149.14	0.000441	0.07	241.91	135.13	0.02
Pesebre	580	Pr25	6.31	1146.85	1148.68		1148.68	0.000253	0.04	152.94	121.27	0.01
Pesebre	580	Pr50	8.10	1146.85	1148.78		1148.78	0.000331	0.05	165.06	123.22	0.01
Pesebre	580	Pr100	10.30	1146.85	1148.88		1148.88	0.000423	0.06	178.12	125.07	0.02
Pesebre	580	Pr200	12.90	1146.85	1148.99		1148.99	0.000526	0.07	191.84	126.47	0.02
Pesebre	580	Pr500	16.80	1146.85	1149.13		1149.13	0.000675	0.08	209.80	128.27	0.02
Pesebre	560	Pr25	6.31	1147.22	1148.67		1148.67	0.000552	0.05	119.55	117.44	0.02
Pesebre	560	Pr50	8.10	1147.22	1148.77		1148.77	0.000687	0.06	131.08	119.84	0.02
Pesebre	560	Pr100	10.30	1147.22	1148.87		1148.87	0.000840	0.07	143.47	121.82	0.02
Pesebre	560	Pr200	12.90	1147.22	1148.98		1148.98	0.001011	0.08	156.57	124.16	0.02
Pesebre	560	Pr500	16.80	1147.22	1149.11		1149.11	0.001247	0.10	173.82	127.03	0.03
Pesebre	540	Pr25	6.31	1147.12	1148.65		1148.65	0.001554	0.07	85.30	109.87	0.03
Pesebre	540	Pr50	8.10	1147.12	1148.75		1148.75	0.001804	0.08	95.69	112.58	0.03
Pesebre	540	Pr100	10.30	1147.12	1148.85		1148.85	0.002085	0.10	106.92	115.47	0.03
Pesebre	540	Pr200	12.90	1147.12	1148.95		1148.95	0.002379	0.11	118.84	118.44	0.03
Pesebre	540	Pr500	16.80	1147.12	1149.08		1149.08	0.002770	0.12	134.58	121.91	0.04
Pesebre	520	Pr25	6.31	1147.45	1148.60		1148.60	0.005339	0.11	55.47	94.54	0.05
Pesebre	520	Pr50	8.10	1147.45	1148.69		1148.69	0.005910	0.13	63.81	99.57	0.05
Pesebre	520	Pr100	10.30	1147.45	1148.78		1148.78	0.006499	0.14	73.02	104.44	0.05
Pesebre	520	Pr200	12.90	1147.45	1148.87		1148.87	0.007126	0.16	83.03	110.08	0.06
Pesebre	520	Pr500	16.80	1147.45	1148.99		1148.99	0.007955	0.17	96.68	117.71	0.06
Pesebre	500	Pr25	6.31	1147.83	1148.42		1148.43	0.017472	0.16	39.13	96.16	0.08
Pesebre	500	Pr50	8.10	1147.83	1148.50		1148.50	0.017834	0.18	46.24	101.95	0.08
Pesebre	500	Pr100	10.30	1147.83	1148.57		1148.57	0.018314	0.19	54.21	107.95	0.09
Pesebre	500	Pr200	12.90	1147.83	1148.65		1148.65	0.018482	0.20	63.09	113.30	0.09
Pesebre	500	Pr500	16.80	1147.83	1148.76		1148.76	0.018691	0.22	75.10	118.83	0.09
Pesebre	480	Pr25	6.31	1147.47	1148.00		1148.00	0.026599	0.19	33.83	91.61	0.10
Pesebre	480	Pr50	8.10	1147.47	1148.06		1148.07	0.026614	0.20	40.01	95.87	0.10
Pesebre	480	Pr100	10.30	1147.47	1148.14		1148.14	0.026525	0.22	47.15	100.52	0.10

HEC-RAS Plan: plmx1 River: pesebre Reach: Pesebre (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Pesebre	480	Pr200	12.90	1147.47	1148.21		1148.22	0.026458	0.23	55.12	105.80	0.10
Pesebre	480	Pr500	16.80	1147.47	1148.32		1148.32	0.026201	0.25	66.12	111.34	0.11
Pesebre	460	Pr25	6.31	1146.82	1147.38		1147.38	0.036832	0.22	28.44	75.79	0.12
Pesebre	460	Pr50	8.10	1146.82	1147.45		1147.45	0.036479	0.24	33.78	79.55	0.12
Pesebre	460	Pr100	10.30	1146.82	1147.52		1147.53	0.035978	0.26	40.03	83.89	0.12
Pesebre	460	Pr200	12.90	1146.82	1147.60		1147.61	0.035605	0.27	46.97	88.57	0.12
Pesebre	460	Pr500	16.80	1146.82	1147.71		1147.71	0.034846	0.30	56.83	94.45	0.12
Pesebre	440	Pr25	6.31	1146.02	1146.64		1146.64	0.036723	0.23	26.92	65.92	0.12
Pesebre	440	Pr50	8.10	1146.02	1146.71		1146.72	0.036764	0.25	31.87	69.15	0.12
Pesebre	440	Pr100	10.30	1146.02	1146.79		1146.79	0.037224	0.28	37.39	72.58	0.12
Pesebre	440	Pr200	12.90	1146.02	1146.87		1146.88	0.037813	0.30	43.38	75.97	0.13
Pesebre	440	Pr500	16.80	1146.02	1146.98		1146.98	0.038824	0.33	51.59	80.41	0.13
Pesebre	420	Pr25	6.31	1145.02	1145.58		1145.58	0.082136	0.33	19.24	52.02	0.17
Pesebre	420	Pr50	8.10	1145.02	1145.65		1145.66	0.082227	0.35	23.09	56.49	0.18
Pesebre	420	Pr100	10.30	1145.02	1145.73		1145.74	0.080557	0.37	27.78	61.63	0.18
Pesebre	420	Pr200	12.90	1145.02	1145.81		1145.82	0.078918	0.39	32.96	66.35	0.18
Pesebre	420	Pr500	16.80	1145.02	1145.91		1145.92	0.076306	0.42	40.12	71.17	0.18
Pesebre	400	Pr25	6.31	1143.66	1144.26		1144.26	0.054357	0.28	22.83	58.59	0.14
Pesebre	400	Pr50	8.10	1143.66	1144.33		1144.33	0.054457	0.30	27.03	61.53	0.14
Pesebre	400	Pr100	10.30	1143.66	1144.40		1144.41	0.055871	0.33	31.59	64.59	0.15
Pesebre	400	Pr200	12.90	1143.66	1144.48		1144.48	0.057399	0.35	36.58	67.81	0.15
Pesebre	400	Pr500	16.80	1143.66	1144.57		1144.58	0.059865	0.39	43.16	71.21	0.16
Pesebre	380	Pr25	6.31	1142.32	1142.80		1142.81	0.101980	0.31	20.26	69.67	0.18
Pesebre	380	Pr50	8.10	1142.32	1142.85		1142.86	0.105775	0.34	23.70	72.89	0.19
Pesebre	380	Pr100	10.30	1142.32	1142.91		1142.91	0.104787	0.37	28.03	76.75	0.19
Pesebre	380	Pr200	12.90	1142.32	1142.97		1142.98	0.102755	0.39	32.90	80.55	0.20
Pesebre	380	Pr500	16.80	1142.32	1143.05		1143.06	0.099308	0.42	39.83	85.17	0.20
Pesebre	360	Pr25	6.31	1140.61	1141.17		1141.18	0.066429	0.28	22.82	68.02	0.15
Pesebre	360	Pr50	8.10	1140.61	1141.24		1141.24	0.063567	0.30	27.37	71.29	0.15

HEC-RAS Plan: plmx1 River: pesebre Reach: Pesebre (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Pesebre	360	Pr100	10.30	1140.61	1141.30		1141.31	0.063330	0.32	32.18	74.31	0.16
Pesebre	360	Pr200	12.90	1140.61	1141.37		1141.38	0.064050	0.35	37.35	77.60	0.16
Pesebre	360	Pr500	16.80	1140.61	1141.46		1141.47	0.065161	0.38	44.67	82.71	0.16
Pesebre	340	Pr25	6.31	1138.90	1139.69		1139.69	0.083325	0.37	17.24	39.98	0.18
Pesebre	340	Pr50	8.10	1138.90	1139.80		1139.80	0.082013	0.36	22.19	51.06	0.18
Pesebre	340	Pr100	10.30	1138.90	1139.90		1139.91	0.077320	0.36	28.29	62.50	0.17
Pesebre	340	Pr200	12.90	1138.90	1139.98		1139.99	0.075082	0.39	33.43	66.23	0.17
Pesebre	340	Pr500	16.80	1138.90	1140.09		1140.10	0.072256	0.41	40.74	70.98	0.17
Pesebre	320	Pr25	6.31	1137.61	1138.62		1138.62	0.037363	0.28	22.63	43.20	0.12
Pesebre	320	Pr50	8.10	1137.61	1138.73		1138.74	0.037534	0.29	27.88	50.23	0.12
Pesebre	320	Pr100	10.30	1137.61	1138.85		1138.85	0.038348	0.30	34.40	60.22	0.13
Pesebre	320	Pr200	12.90	1137.61	1138.95		1138.95	0.037986	0.32	40.71	64.97	0.13
Pesebre	320	Pr500	16.80	1137.61	1139.07		1139.08	0.037651	0.34	49.12	69.45	0.13
Pesebre	300	Pr25	6.31	1137.16	1137.98		1137.98	0.027918	0.24	26.84	53.25	0.11
Pesebre	300	Pr50	8.10	1137.16	1138.07		1138.07	0.029911	0.25	31.86	59.16	0.11
Pesebre	300	Pr100	10.30	1137.16	1138.16		1138.16	0.031459	0.27	37.59	64.80	0.11
Pesebre	300	Pr200	12.90	1137.16	1138.25		1138.25	0.032523	0.30	43.67	68.98	0.12
Pesebre	300	Pr500	16.80	1137.16	1138.37		1138.37	0.033326	0.32	52.19	73.80	0.12
Pesebre	280	Pr25	6.31	1136.56	1137.21		1137.21	0.055768	0.28	22.66	58.63	0.14
Pesebre	280	Pr50	8.10	1136.56	1137.30		1137.30	0.051120	0.29	28.02	64.18	0.14
Pesebre	280	Pr100	10.30	1136.56	1137.38		1137.39	0.048410	0.30	34.00	69.67	0.14
Pesebre	280	Pr200	12.90	1136.56	1137.47		1137.48	0.046672	0.32	40.51	74.95	0.14
Pesebre	280	Pr500	16.80	1136.56	1137.58		1137.59	0.046718	0.34	48.94	80.99	0.14
Pesebre	260	Pr25	6.31	1135.32	1136.07	1135.67	1136.08	0.057958	0.27	23.01	62.66	0.14
Pesebre	260	Pr50	8.10	1135.32	1136.12	1135.71	1136.13	0.067587	0.31	26.32	67.67	0.16
Pesebre	260	Pr100	10.30	1135.32	1136.18	1135.75	1136.18	0.077375	0.34	30.01	72.53	0.17
Pesebre	260	Pr200	12.90	1135.32	1136.23	1135.79	1136.24	0.087288	0.38	33.93	76.95	0.18
Pesebre	260	Pr500	16.80	1135.32	1136.29	1135.84	1136.30	0.093941	0.39	43.58	102.23	0.19
Pesebre	240	Pr25	6.31	1133.94	1134.56		1134.57	0.102336	0.36	17.44	48.03	0.19

HEC-RAS Plan: plmx1 River: pesebre Reach: Pesebre (Continued)

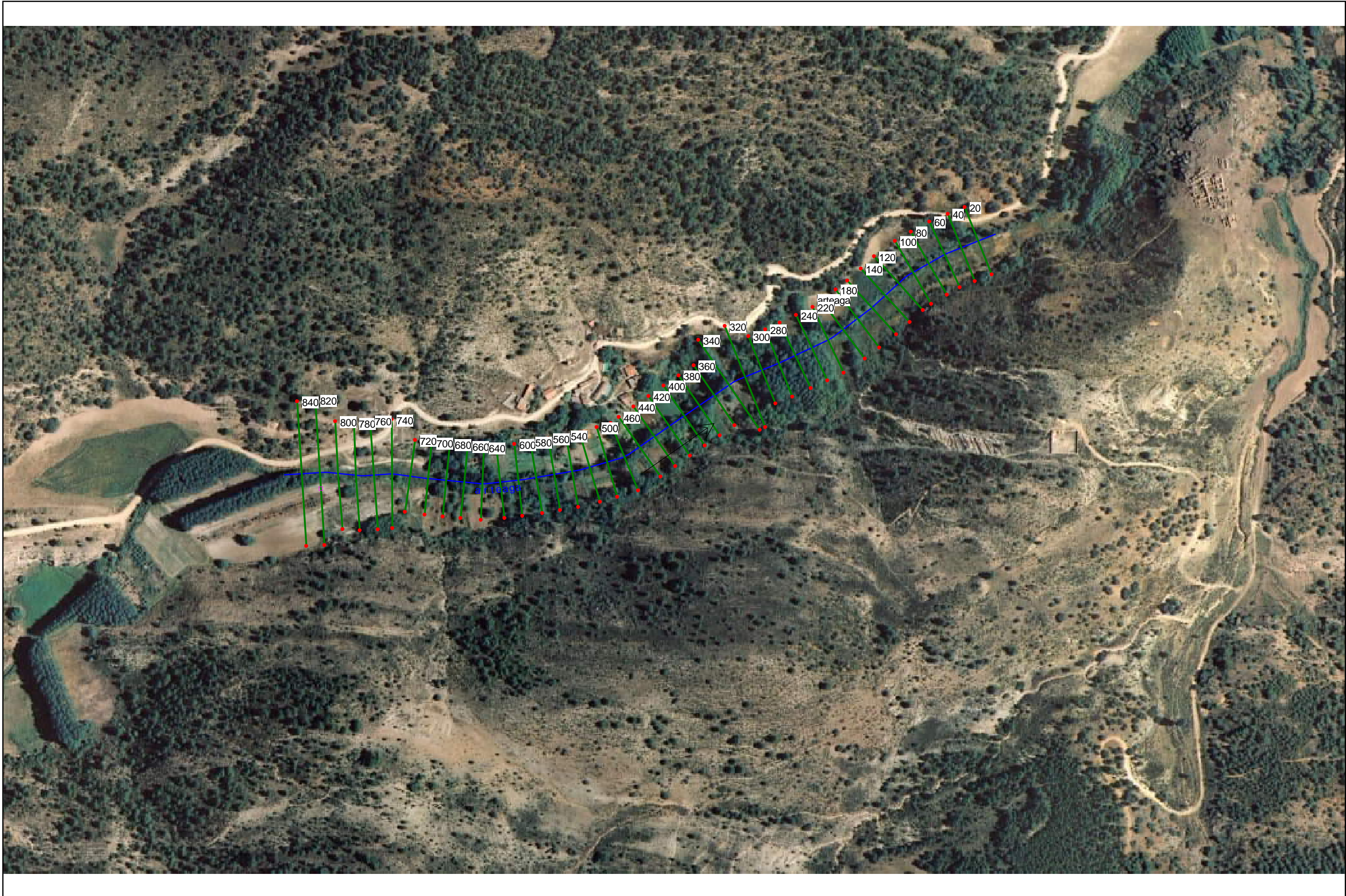
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Pesebre	240	Pr50	8.10	1133.94	1134.67		1134.67	0.078412	0.35	22.99	53.96	0.17
Pesebre	240	Pr100	10.30	1133.94	1134.79		1134.79	0.062593	0.35	29.84	60.95	0.16
Pesebre	240	Pr200	12.90	1133.94	1134.91		1134.92	0.051465	0.34	37.85	68.07	0.15
Pesebre	240	Pr500	16.80	1133.94	1135.07		1135.08	0.043057	0.34	49.38	77.89	0.14
Pesebre	220	Pr25	6.31	1133.19	1134.20		1134.20	0.007393	0.15	42.42	61.69	0.06
Pesebre	220	Pr50	8.10	1133.19	1134.31		1134.31	0.007828	0.16	49.68	65.73	0.06
Pesebre	220	Pr100	10.30	1133.19	1134.43		1134.43	0.008335	0.18	58.06	70.94	0.06
Pesebre	220	Pr200	12.90	1133.19	1134.56		1134.56	0.008947	0.19	67.33	77.30	0.07
Pesebre	220	Pr500	16.80	1133.19	1134.72		1134.72	0.009672	0.21	80.21	85.42	0.07
Pesebre	200	Pr25	6.31	1132.56	1134.11		1134.11	0.002778	0.11	59.85	69.99	0.04
Pesebre	200	Pr50	8.10	1132.56	1134.21		1134.21	0.003381	0.12	67.16	74.38	0.04
Pesebre	200	Pr100	10.30	1132.56	1134.32		1134.32	0.004015	0.14	75.55	79.20	0.04
Pesebre	200	Pr200	12.90	1132.56	1134.43		1134.43	0.004688	0.15	84.62	84.29	0.05
Pesebre	200	Pr500	16.80	1132.56	1134.57		1134.57	0.005573	0.17	96.89	90.59	0.05
Pesebre	180	Pr25	6.31	1132.65	1134.07		1134.07	0.001555	0.08	82.75	101.90	0.03
Pesebre	180	Pr50	8.10	1132.65	1134.16		1134.16	0.001898	0.09	92.41	107.22	0.03
Pesebre	180	Pr100	10.30	1132.65	1134.26		1134.26	0.002260	0.10	103.41	112.91	0.03
Pesebre	180	Pr200	12.90	1132.65	1134.36		1134.36	0.002655	0.11	115.10	118.80	0.04
Pesebre	180	Pr500	16.80	1132.65	1134.49		1134.49	0.003098	0.13	130.66	123.20	0.04
Pesebre	160	Pr25	6.31	1132.45	1134.05		1134.05	0.001027	0.07	94.13	103.04	0.02
Pesebre	160	Pr50	8.10	1132.45	1134.13		1134.13	0.001332	0.08	103.19	108.34	0.03
Pesebre	160	Pr100	10.30	1132.45	1134.22		1134.22	0.001688	0.09	113.51	114.49	0.03
Pesebre	160	Pr200	12.90	1132.45	1134.32		1134.32	0.002098	0.10	124.43	120.99	0.03
Pesebre	160	Pr500	16.80	1132.45	1134.43		1134.44	0.002631	0.12	139.17	127.61	0.04
Pesebre	140	Pr25	6.31	1132.75	1134.02		1134.02	0.002230	0.08	75.13	104.91	0.03
Pesebre	140	Pr50	8.10	1132.75	1134.09		1134.09	0.002779	0.10	83.52	110.83	0.04
Pesebre	140	Pr100	10.30	1132.75	1134.18		1134.18	0.003424	0.11	93.04	118.39	0.04
Pesebre	140	Pr200	12.90	1132.75	1134.26		1134.26	0.004152	0.13	103.06	126.06	0.04
Pesebre	140	Pr500	16.80	1132.75	1134.36		1134.36	0.005131	0.14	116.67	135.54	0.05

HEC-RAS Plan: plmx1 River: pesebre Reach: Pesebre (Continued)

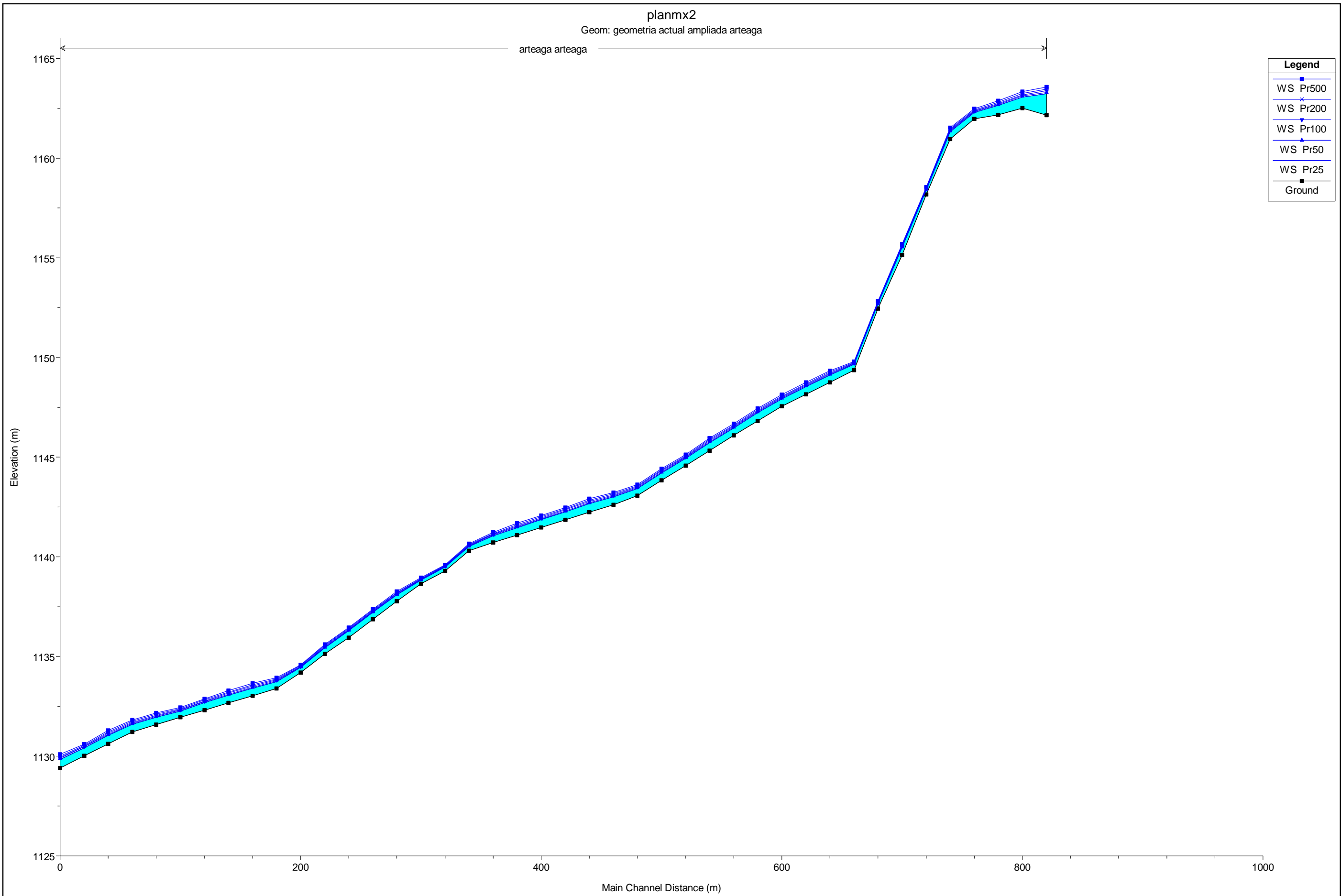
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Pesebre	120	Pr25	6.31	1133.13	1133.93	1133.31	1133.94	0.009652	0.12	52.34	127.54	0.06
Pesebre	120	Pr50	8.10	1133.13	1133.99	1133.34	1134.00	0.010807	0.13	60.31	136.02	0.06
Pesebre	120	Pr100	10.30	1133.13	1134.06	1133.37	1134.06	0.012123	0.15	69.39	146.82	0.07
Pesebre	120	Pr200	12.90	1133.13	1134.12	1133.40	1134.12	0.013092	0.16	78.92	153.06	0.07
Pesebre	120	Pr500	16.80	1133.13	1134.20	1133.44	1134.20	0.013867	0.17	100.16	195.09	0.07
Pesebre	100	Pr25	6.31	1133.08	1133.67		1133.67	0.019850	0.12	50.51	200.39	0.08
Pesebre	100	Pr50	8.10	1133.08	1133.70		1133.71	0.020428	0.14	58.34	201.81	0.08
Pesebre	100	Pr100	10.30	1133.08	1133.75		1133.75	0.020777	0.15	67.26	203.47	0.09
Pesebre	100	Pr200	12.90	1133.08	1133.79		1133.80	0.021485	0.17	76.48	205.20	0.09
Pesebre	100	Pr500	16.80	1133.08	1133.86		1133.86	0.021926	0.19	89.49	207.61	0.09
Pesebre	80	Pr25	6.31	1132.49	1132.93	1132.74	1132.93	0.090287	0.24	26.60	125.57	0.16
Pesebre	80	Pr50	8.10	1132.49	1132.98	1132.75	1132.98	0.082302	0.25	32.54	133.31	0.16
Pesebre	80	Pr100	10.30	1132.49	1133.02	1132.77	1133.02	0.079128	0.27	38.58	138.20	0.16
Pesebre	80	Pr200	12.90	1132.49	1133.07	1132.79	1133.08	0.072567	0.28	45.76	141.58	0.16
Pesebre	80	Pr500	16.80	1132.49	1133.14	1132.82	1133.15	0.067224	0.30	55.79	147.63	0.16
Pesebre	60	Pr25	6.31	1131.12	1131.93		1131.93	0.031705	0.21	29.50	74.21	0.11
Pesebre	60	Pr50	8.10	1131.12	1132.02		1132.02	0.031474	0.22	36.36	85.55	0.11
Pesebre	60	Pr100	10.30	1131.12	1132.11		1132.11	0.029794	0.23	44.48	94.81	0.11
Pesebre	60	Pr200	12.90	1131.12	1132.20		1132.21	0.028774	0.24	54.29	108.46	0.11
Pesebre	60	Pr500	16.80	1131.12	1132.33		1132.33	0.026965	0.24	69.63	129.48	0.11
Pesebre	40	Pr25	6.31	1130.61	1131.62		1131.62	0.009034	0.13	48.56	100.60	0.06
Pesebre	40	Pr50	8.10	1130.61	1131.72		1131.72	0.008498	0.14	58.95	107.29	0.06
Pesebre	40	Pr100	10.30	1130.61	1131.82		1131.82	0.008372	0.15	69.84	113.04	0.06
Pesebre	40	Pr200	12.90	1130.61	1131.92		1131.93	0.008215	0.16	81.80	118.05	0.06
Pesebre	40	Pr500	16.80	1130.61	1132.06		1132.06	0.008052	0.17	98.60	124.78	0.06
Pesebre	20	Pr25	6.31	1130.50	1131.48	1130.74	1131.48	0.005775	0.11	56.85	106.68	0.05
Pesebre	20	Pr50	8.10	1130.50	1131.58	1130.78	1131.58	0.005775	0.12	68.54	117.04	0.05
Pesebre	20	Pr100	10.30	1130.50	1131.68	1130.81	1131.68	0.005778	0.13	80.44	121.87	0.05
Pesebre	20	Pr200	12.90	1130.50	1131.79	1130.84	1131.79	0.005779	0.14	93.45	126.47	0.05
Pesebre	20	Pr500	16.80	1130.50	1131.93	1130.89	1131.93	0.005772	0.15	111.57	132.43	0.05

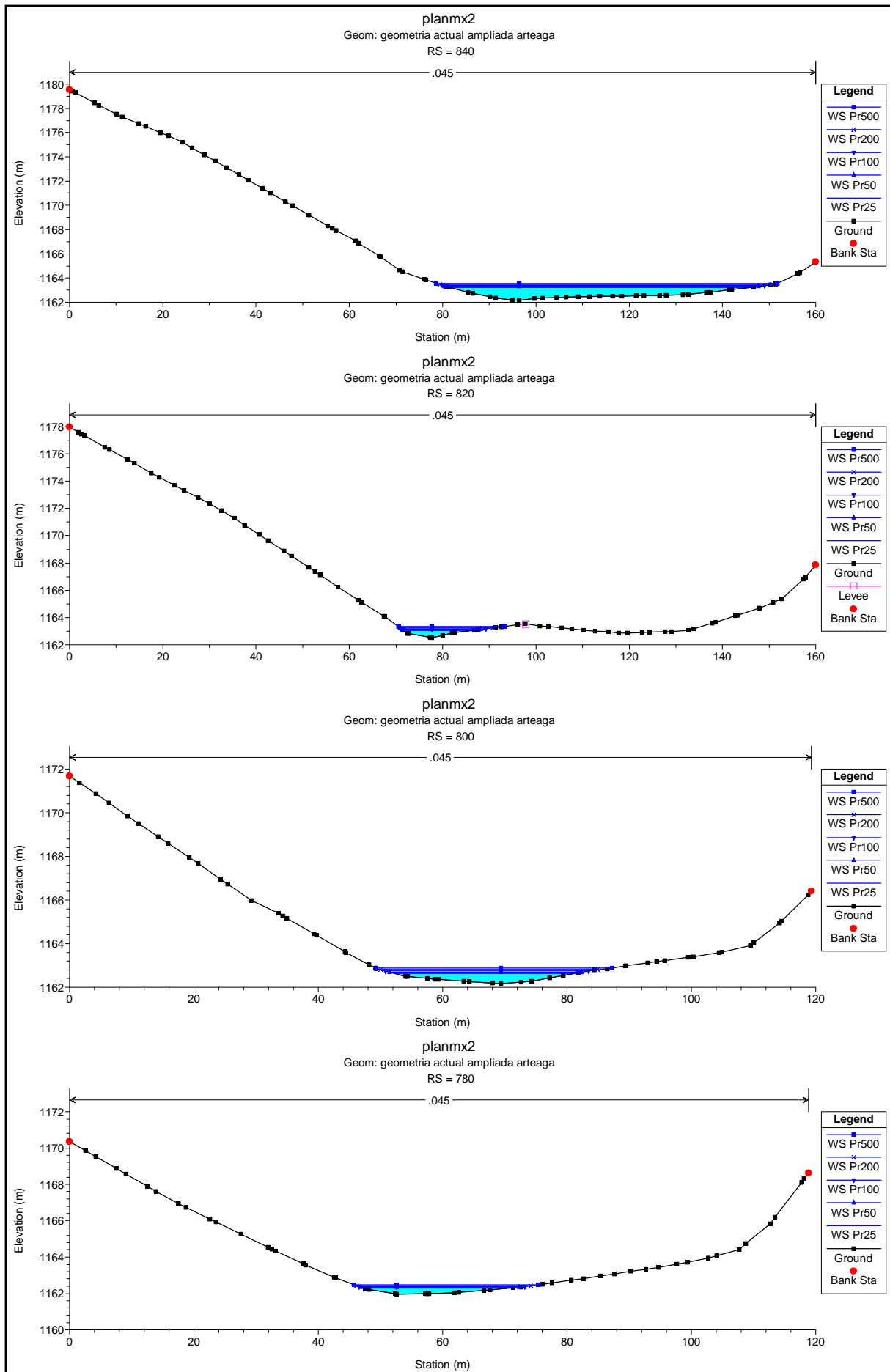
ANEXO 2. LISTADOS RESULTADOS HIDRÁULICOS. HEC-RAS

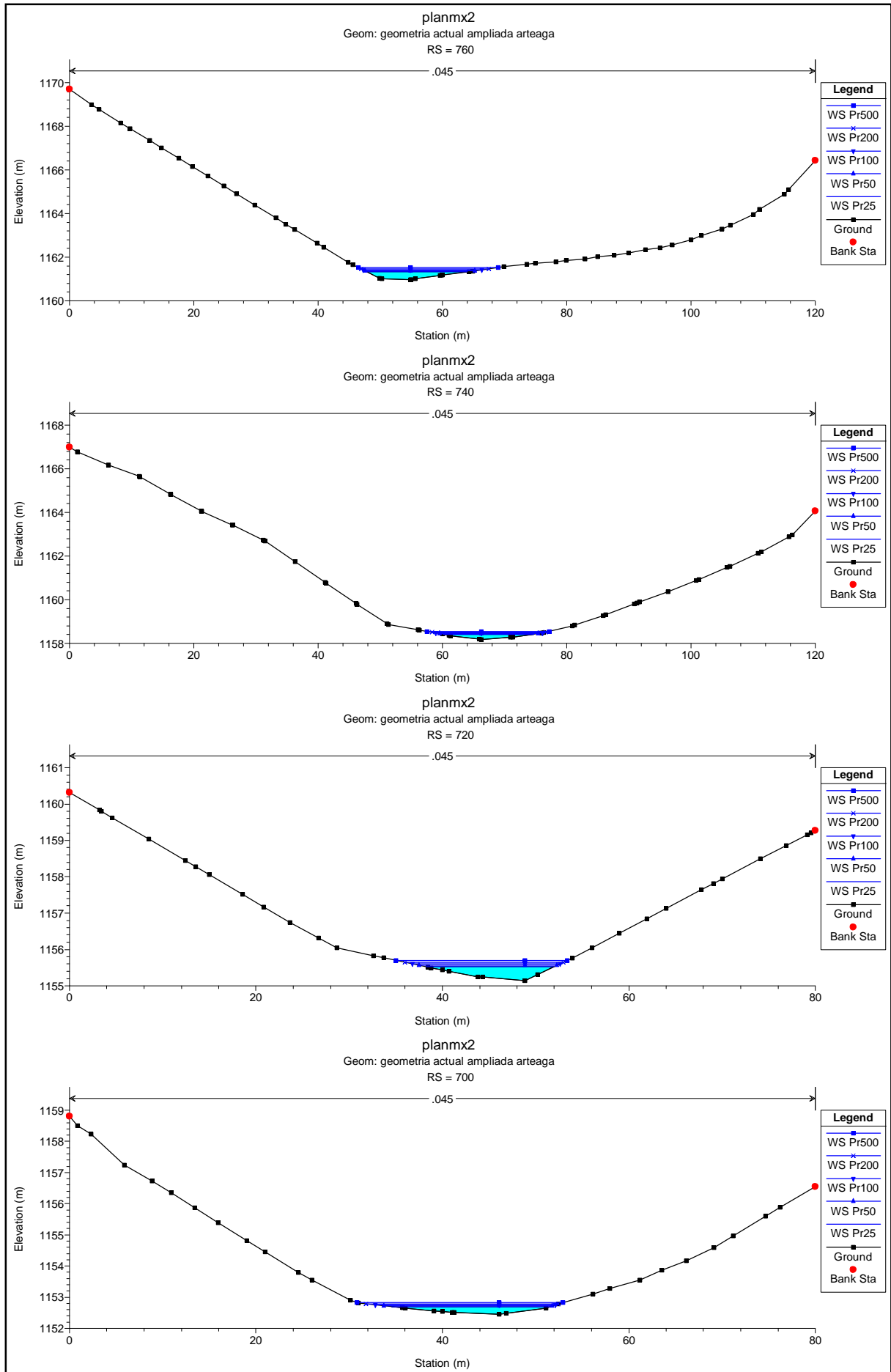
- **ARTEAGA DE ARRIBA**

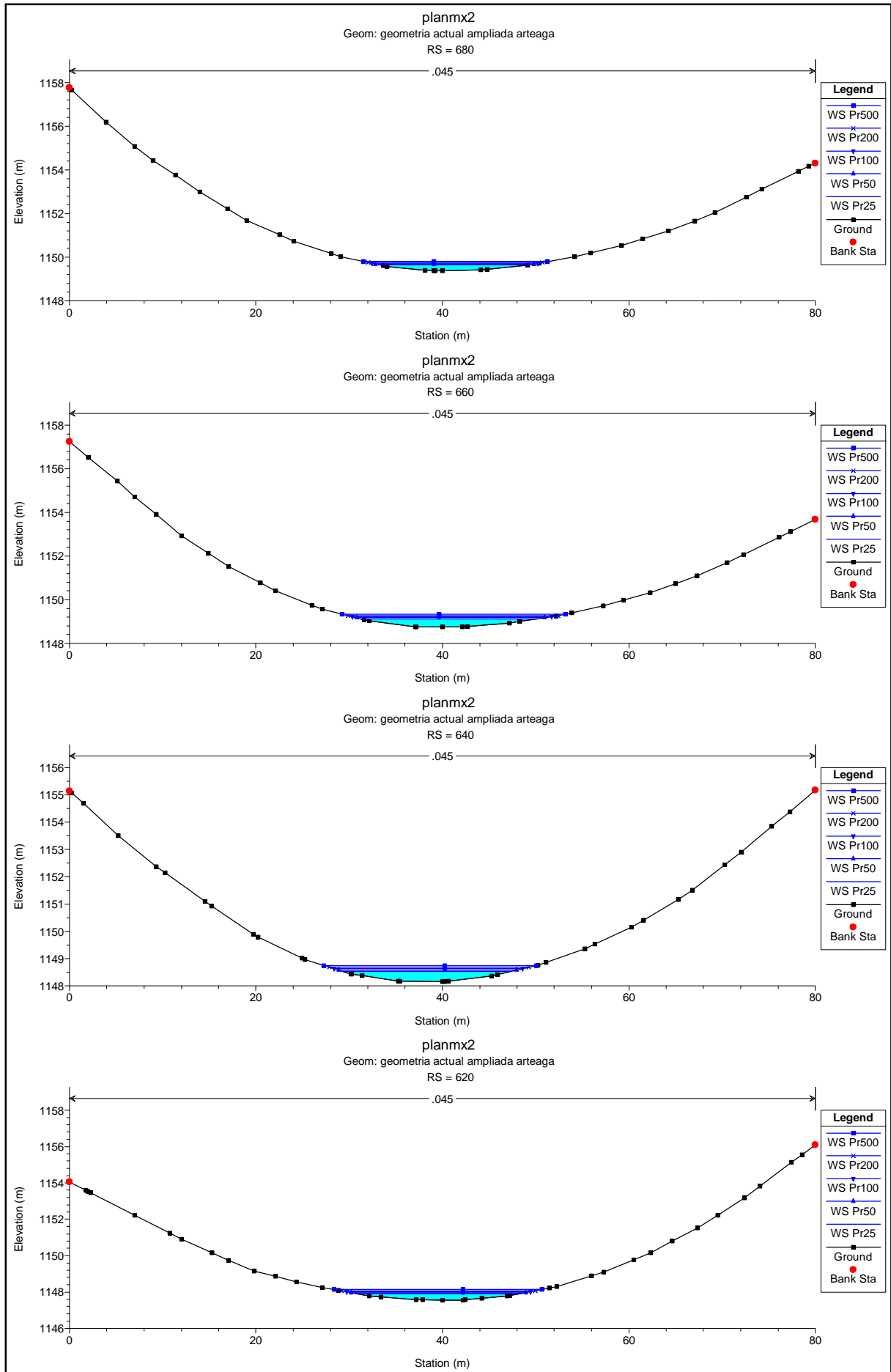


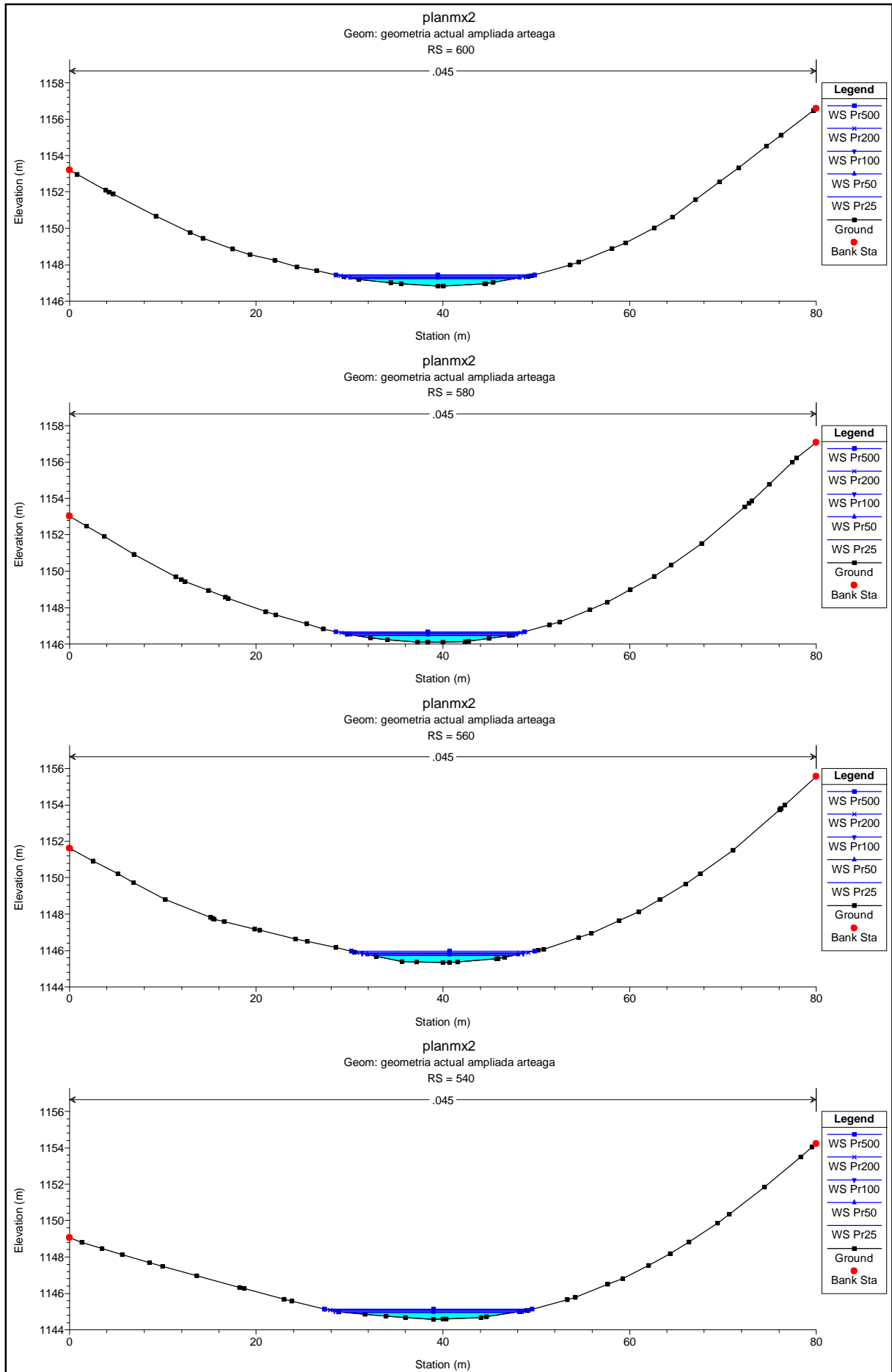
1 cm Horiz. = 40 m 1 cm Vert. = 40 m

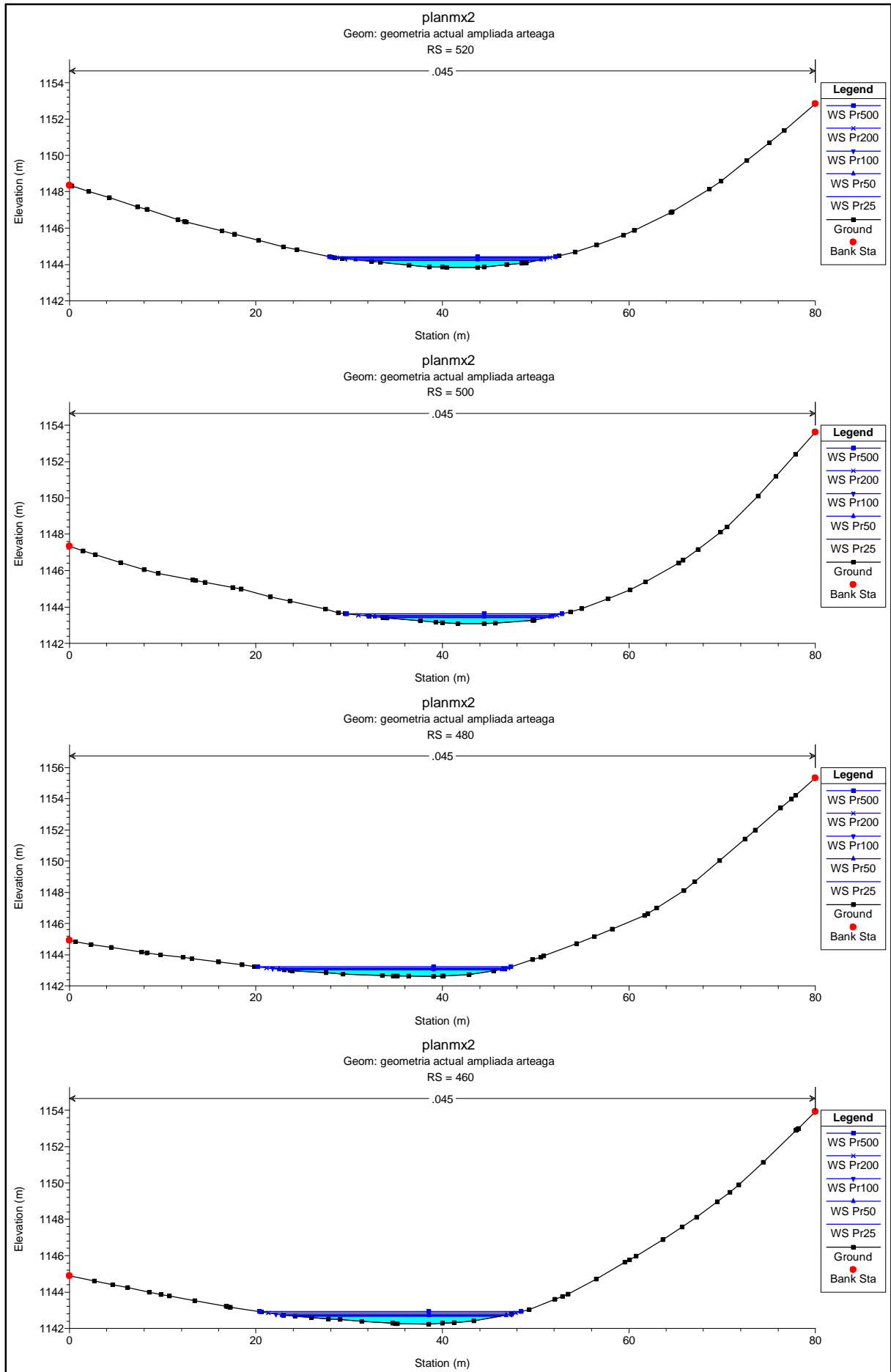


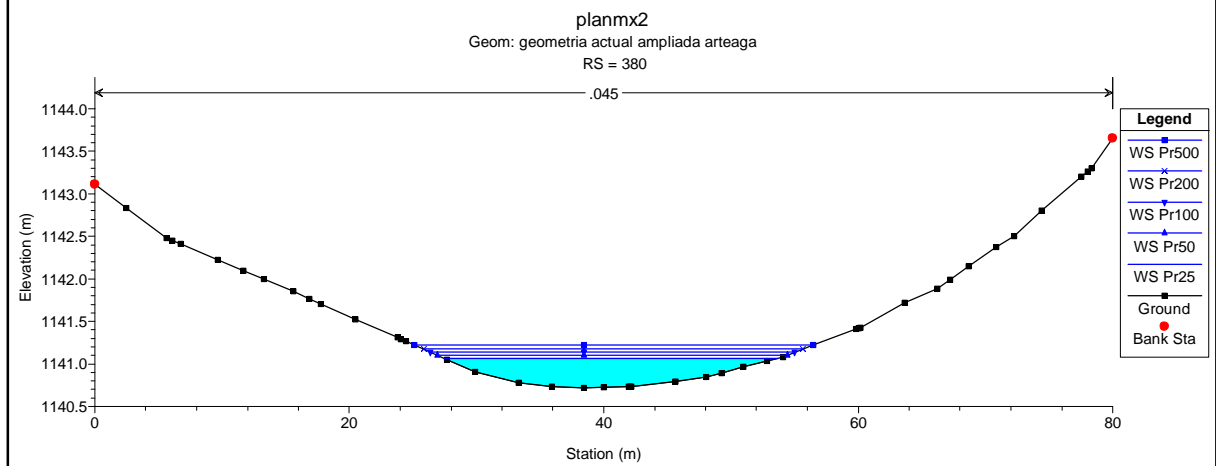
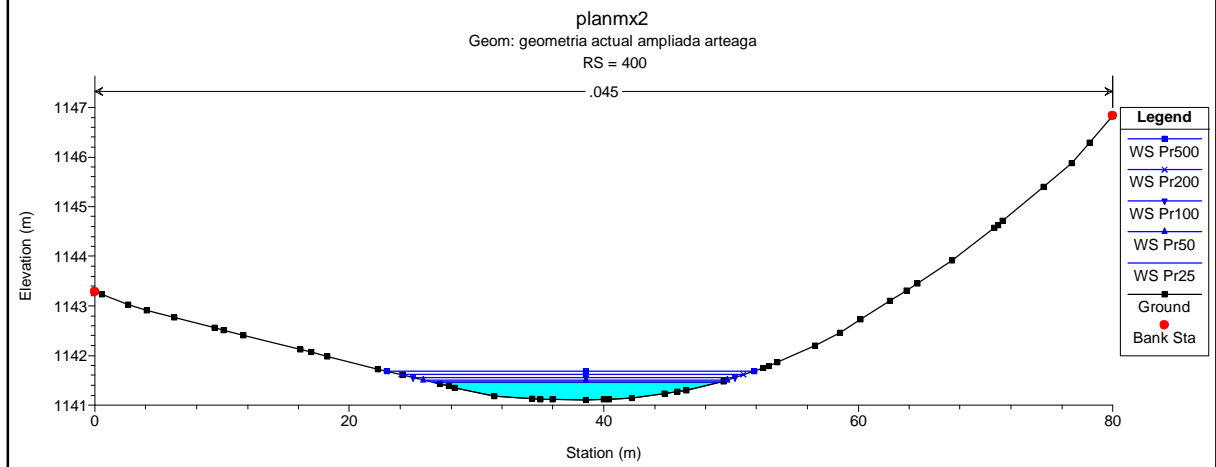
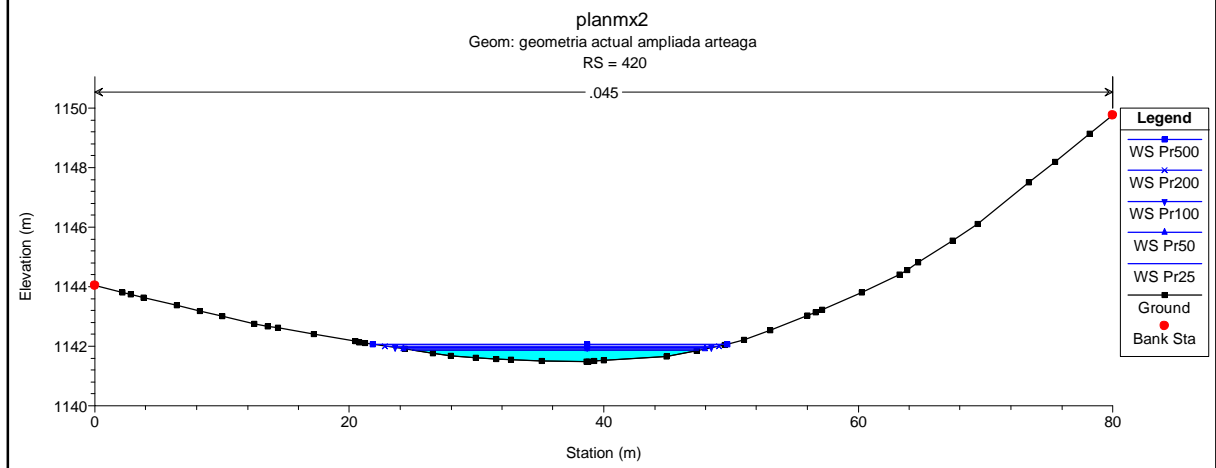
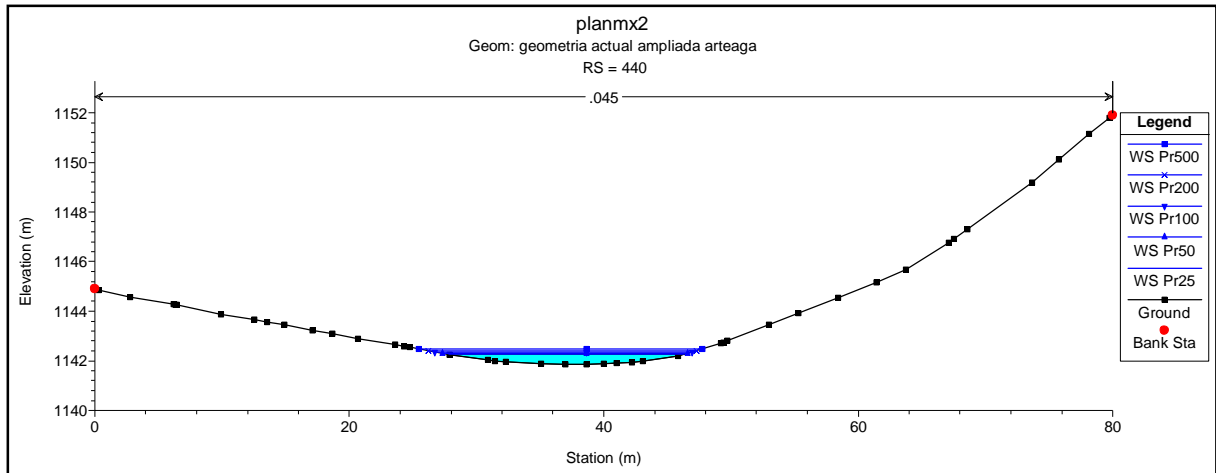


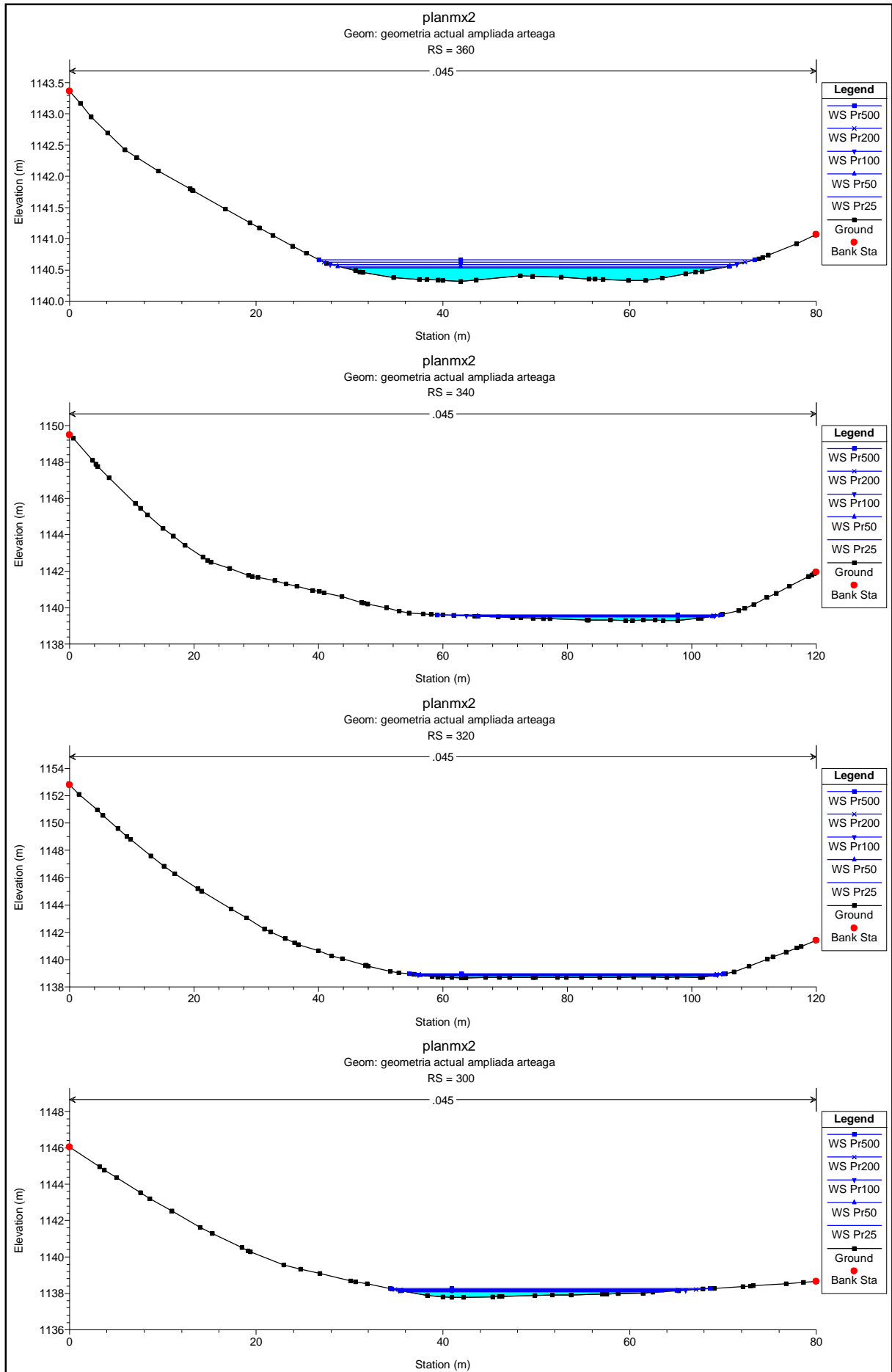


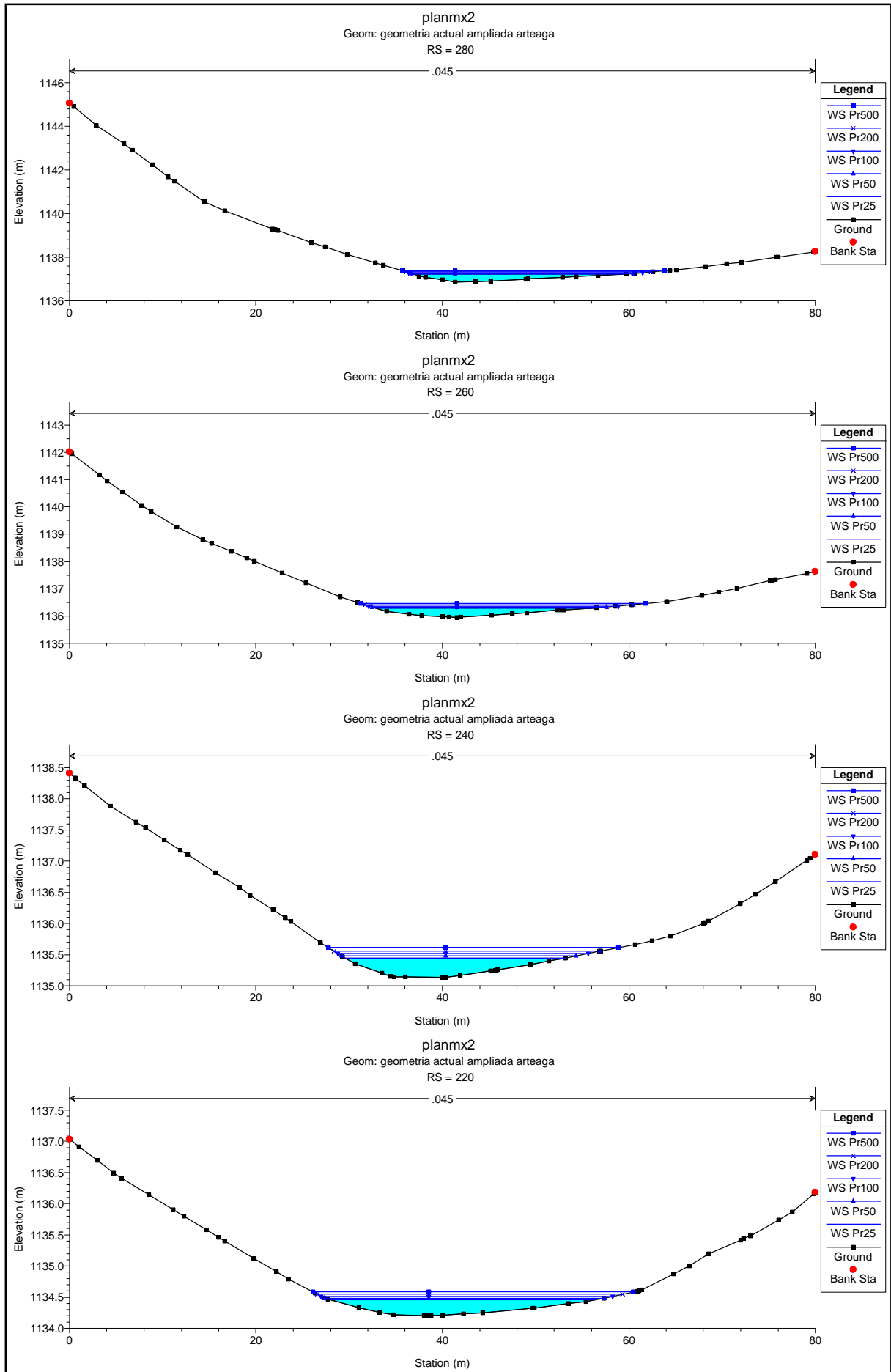


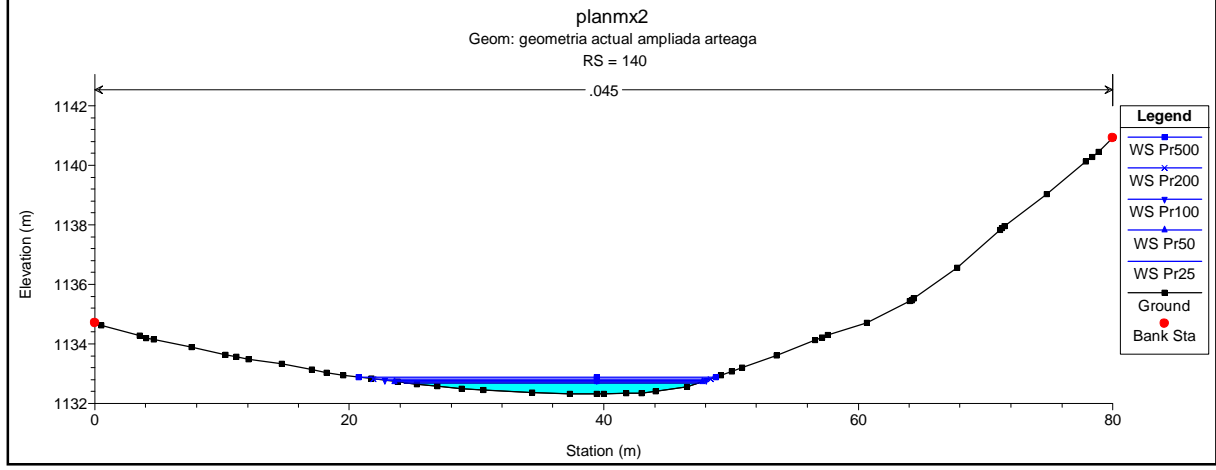
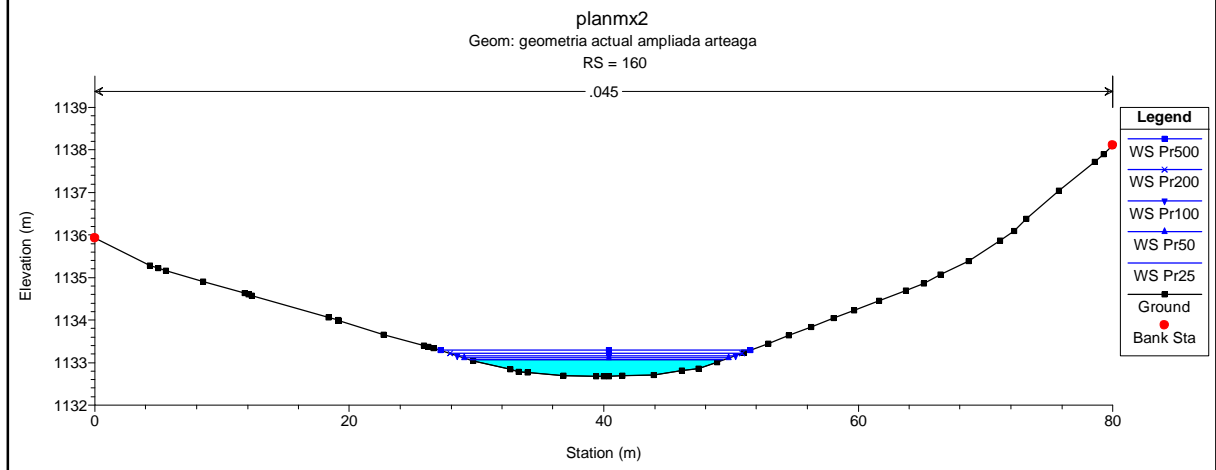
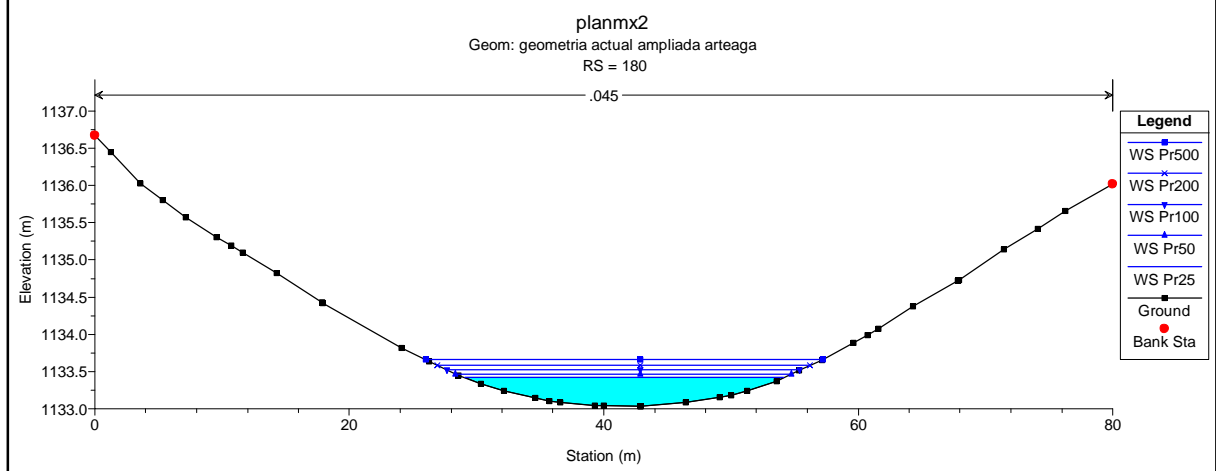
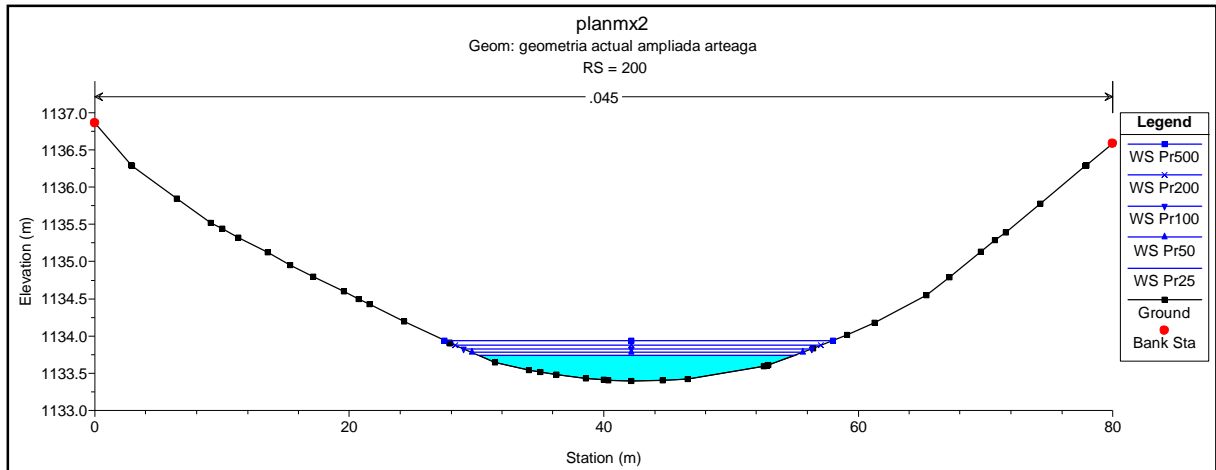


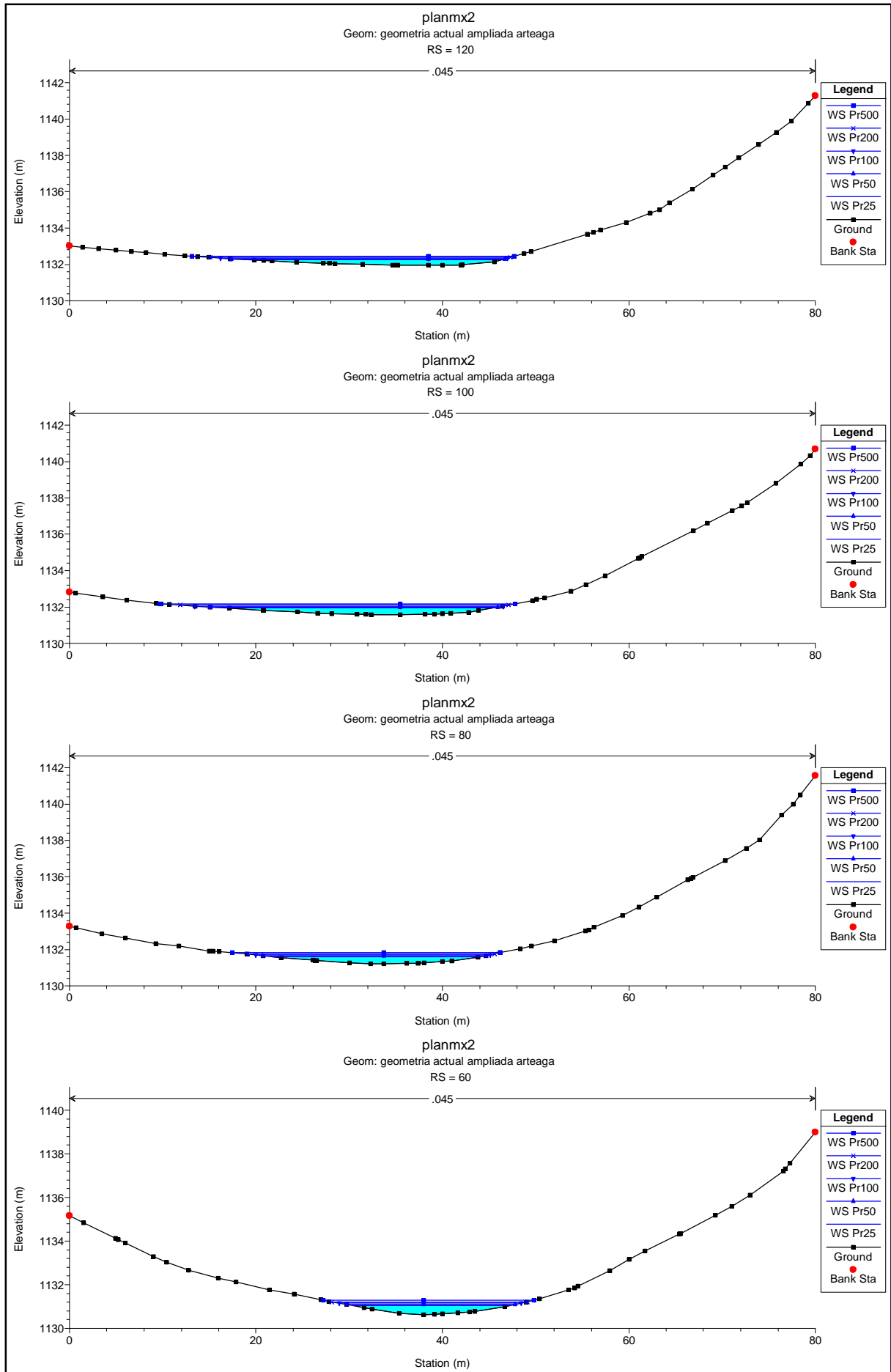


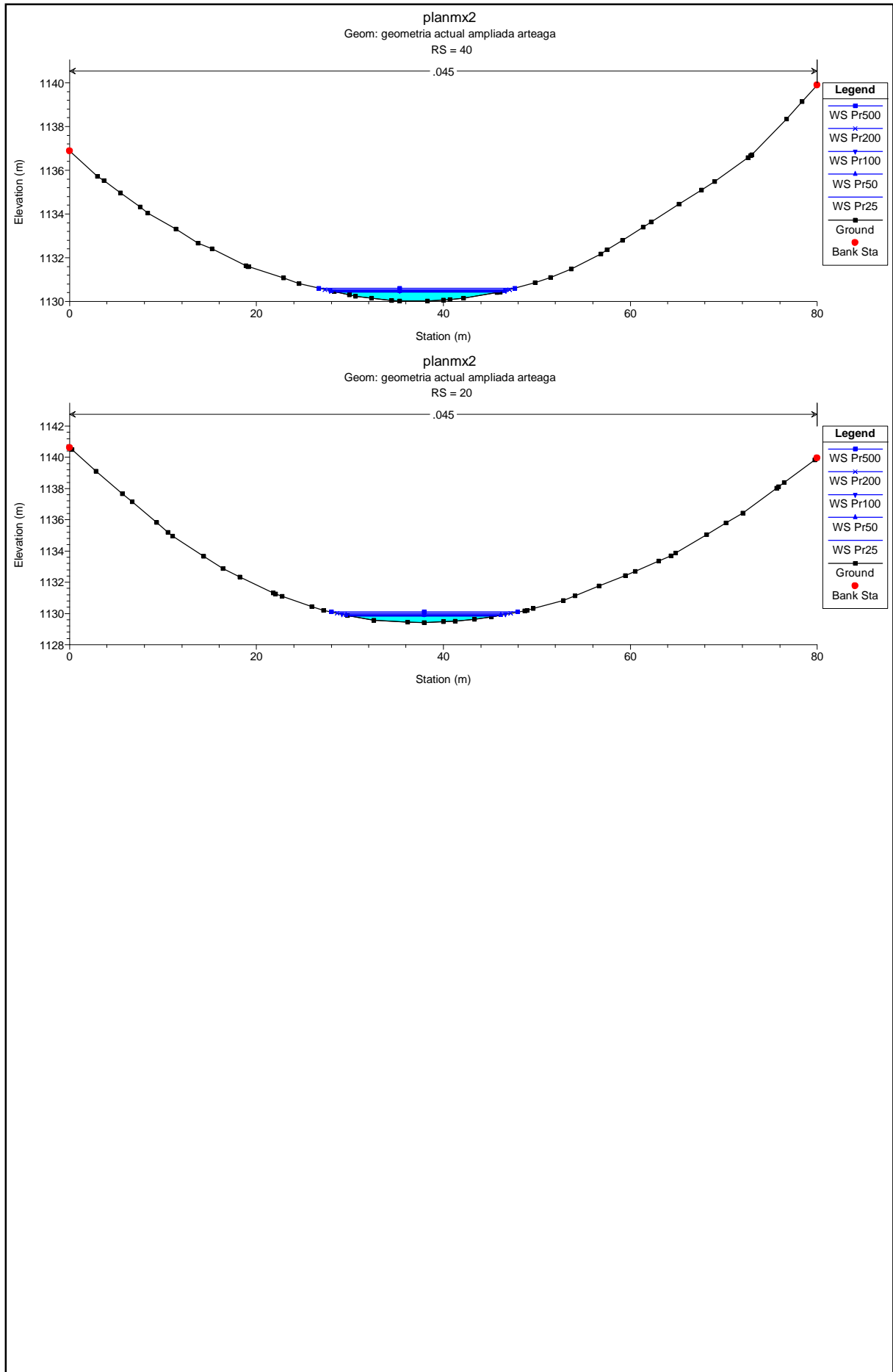












HEC-RAS Plan: plmx2 River: arteaga Reach: arteaga

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arteaga	840	Pr25	7.14	1162.16	1163.23	1162.57	1163.23	0.000113	0.17	41.03	64.84	0.07
arteaga	840	Pr50	9.10	1162.16	1163.30	1162.61	1163.31	0.000132	0.20	45.92	67.02	0.08
arteaga	840	Pr100	11.50	1162.16	1163.38	1162.64	1163.39	0.000151	0.22	51.35	69.02	0.08
arteaga	840	Pr200	14.40	1162.16	1163.47	1162.67	1163.47	0.000173	0.25	57.12	71.10	0.09
arteaga	840	Pr500	18.60	1162.16	1163.57	1162.71	1163.57	0.000200	0.29	64.50	73.17	0.10
arteaga	820	Pr25	7.14	1162.52	1163.07	1163.07	1163.21	0.029914	1.66	4.31	15.18	0.99
arteaga	820	Pr50	9.10	1162.52	1163.13	1163.13	1163.28	0.028814	1.73	5.24	16.75	0.99
arteaga	820	Pr100	11.50	1162.52	1163.18	1163.18	1163.36	0.029914	1.87	6.16	18.13	1.02
arteaga	820	Pr200	14.40	1162.52	1163.25	1163.25	1163.44	0.028322	1.94	7.44	19.91	1.01
arteaga	820	Pr500	18.60	1162.52	1163.34	1163.34	1163.54	0.026516	1.99	9.33	22.70	0.99
arteaga	800	Pr25	7.14	1162.18	1162.65	1162.52	1162.68	0.007415	0.84	8.50	29.20	0.50
arteaga	800	Pr50	9.10	1162.18	1162.70	1162.56	1162.74	0.007519	0.91	10.01	30.88	0.51
arteaga	800	Pr100	11.50	1162.18	1162.75	1162.60	1162.80	0.007752	0.99	11.67	32.65	0.53
arteaga	800	Pr200	14.40	1162.18	1162.81	1162.65	1162.86	0.007897	1.06	13.64	34.86	0.54
arteaga	800	Pr500	18.60	1162.18	1162.88	1162.70	1162.95	0.008064	1.14	16.37	38.09	0.55
arteaga	780	Pr25	7.14	1161.97	1162.30	1162.30	1162.40	0.033572	1.44	4.97	23.65	1.00
arteaga	780	Pr50	9.10	1161.97	1162.34	1162.34	1162.46	0.032657	1.53	5.95	25.31	1.01
arteaga	780	Pr100	11.50	1161.97	1162.38	1162.38	1162.51	0.031754	1.63	7.05	26.67	1.01
arteaga	780	Pr200	14.40	1161.97	1162.43	1162.43	1162.58	0.030372	1.73	8.34	27.99	1.01
arteaga	780	Pr500	18.60	1161.97	1162.49	1162.49	1162.66	0.029159	1.85	10.08	29.67	1.01
arteaga	760	Pr25	7.14	1160.96	1161.33	1161.39	1161.53	0.057357	1.96	3.63	16.17	1.32
arteaga	760	Pr50	9.10	1160.96	1161.38	1161.44	1161.60	0.056789	2.08	4.37	17.68	1.34
arteaga	760	Pr100	11.50	1160.96	1161.42	1161.49	1161.67	0.056647	2.22	5.19	19.10	1.36
arteaga	760	Pr200	14.40	1160.96	1161.47	1161.55	1161.75	0.057187	2.36	6.10	20.56	1.38
arteaga	760	Pr500	18.60	1160.96	1161.53	1161.62	1161.85	0.057047	2.52	7.37	22.45	1.41
arteaga	740	Pr25	7.14	1158.18	1158.42	1158.57	1159.09	0.389261	3.63	1.97	14.69	3.16
arteaga	740	Pr50	9.10	1158.18	1158.44	1158.62	1159.19	0.374797	3.83	2.37	15.88	3.16
arteaga	740	Pr100	11.50	1158.18	1158.47	1158.67	1159.30	0.357128	4.02	2.86	17.13	3.14
arteaga	740	Pr200	14.40	1158.18	1158.51	1158.72	1159.41	0.333188	4.20	3.43	18.27	3.10
arteaga	740	Pr500	18.60	1158.18	1158.55	1158.79	1159.55	0.312109	4.43	4.20	19.68	3.06

HEC-RAS Plan: plmx2 River: arteaga Reach: arteaga (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arteaga	720	Pr25	7.14	1155.14	1155.52	1155.61	1155.81	0.085228	2.36	3.02	13.73	1.61
arteaga	720	Pr50	9.10	1155.14	1155.56	1155.67	1155.89	0.087114	2.54	3.58	14.76	1.65
arteaga	720	Pr100	11.50	1155.14	1155.60	1155.73	1155.99	0.089475	2.74	4.20	15.85	1.70
arteaga	720	Pr200	14.40	1155.14	1155.65	1155.79	1156.09	0.092765	2.95	4.89	16.96	1.75
arteaga	720	Pr500	18.60	1155.14	1155.70	1155.86	1156.22	0.096307	3.20	5.82	18.36	1.81
arteaga	700	Pr25	7.14	1152.45	1152.69	1152.82	1153.14	0.235388	2.95	2.42	16.96	2.49
arteaga	700	Pr50	9.10	1152.45	1152.72	1152.86	1153.22	0.226996	3.13	2.91	18.08	2.49
arteaga	700	Pr100	11.50	1152.45	1152.75	1152.90	1153.31	0.218420	3.31	3.48	19.31	2.49
arteaga	700	Pr200	14.40	1152.45	1152.79	1152.95	1153.40	0.208492	3.47	4.14	20.67	2.48
arteaga	700	Pr500	18.60	1152.45	1152.83	1153.02	1153.52	0.198917	3.70	5.03	22.06	2.47
arteaga	680	Pr25	7.14	1149.37	1149.66	1149.75	1149.95	0.112192	2.40	2.98	16.27	1.79
arteaga	680	Pr50	9.10	1149.37	1149.69	1149.80	1150.04	0.114961	2.62	3.48	17.00	1.85
arteaga	680	Pr100	11.50	1149.37	1149.72	1149.85	1150.13	0.117866	2.84	4.05	17.80	1.90
arteaga	680	Pr200	14.40	1149.37	1149.76	1149.91	1150.24	0.121370	3.08	4.68	18.64	1.96
arteaga	680	Pr500	18.60	1149.37	1149.80	1149.98	1150.38	0.125025	3.36	5.53	19.73	2.03
arteaga	660	Pr25	7.14	1148.76	1149.13	1149.12	1149.24	0.029443	1.51	4.74	19.04	0.96
arteaga	660	Pr50	9.10	1148.76	1149.17	1149.16	1149.30	0.028769	1.61	5.65	20.20	0.97
arteaga	660	Pr100	11.50	1148.76	1149.22	1149.22	1149.37	0.028688	1.73	6.66	21.41	0.99
arteaga	660	Pr200	14.40	1148.76	1149.27	1149.27	1149.45	0.029099	1.86	7.75	22.56	1.01
arteaga	660	Pr500	18.60	1148.76	1149.34	1149.34	1149.54	0.027808	1.98	9.39	23.98	1.01
arteaga	640	Pr25	7.14	1148.16	1148.54	1148.53	1148.66	0.029315	1.53	4.65	18.14	0.97
arteaga	640	Pr50	9.10	1148.16	1148.58	1148.58	1148.72	0.029691	1.66	5.47	19.10	0.99
arteaga	640	Pr100	11.50	1148.16	1148.63	1148.63	1148.79	0.029453	1.78	6.46	20.19	1.01
arteaga	640	Pr200	14.40	1148.16	1148.68	1148.69	1148.87	0.028878	1.89	7.61	21.40	1.01
arteaga	640	Pr500	18.60	1148.16	1148.75	1148.76	1148.97	0.029855	2.07	9.00	22.78	1.05
arteaga	620	Pr25	7.14	1147.56	1147.92	1147.92	1148.05	0.031652	1.58	4.52	17.84	1.00
arteaga	620	Pr50	9.10	1147.56	1147.97	1147.97	1148.11	0.030879	1.69	5.37	18.77	1.01
arteaga	620	Pr100	11.50	1147.56	1148.02	1148.02	1148.19	0.031100	1.83	6.29	19.73	1.03
arteaga	620	Pr200	14.40	1147.56	1148.07	1148.08	1148.26	0.031486	1.97	7.32	20.74	1.06

HEC-RAS Plan: plmx2 River: arteaga Reach: arteaga (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arteaga	620	Pr500	18.60	1147.56	1148.14	1148.15	1148.36	0.030445	2.10	8.87	22.28	1.06
arteaga	600	Pr25	7.14	1146.82	1147.24	1147.25	1147.38	0.035385	1.66	4.30	17.15	1.06
arteaga	600	Pr50	9.10	1146.82	1147.28	1147.30	1147.45	0.036027	1.80	5.06	18.12	1.09
arteaga	600	Pr100	11.50	1146.82	1147.33	1147.35	1147.52	0.035547	1.92	5.99	19.24	1.10
arteaga	600	Pr200	14.40	1146.82	1147.39	1147.41	1147.60	0.035012	2.05	7.03	20.29	1.11
arteaga	600	Pr500	18.60	1146.82	1147.45	1147.48	1147.70	0.035633	2.24	8.31	21.30	1.14
arteaga	580	Pr25	7.14	1146.10	1146.47	1146.49	1146.63	0.039915	1.75	4.09	16.56	1.12
arteaga	580	Pr50	9.10	1146.10	1146.52	1146.54	1146.69	0.039047	1.87	4.87	17.53	1.13
arteaga	580	Pr100	11.50	1146.10	1146.56	1146.59	1146.77	0.039562	2.02	5.69	18.34	1.16
arteaga	580	Pr200	14.40	1146.10	1146.61	1146.65	1146.85	0.039694	2.18	6.62	19.15	1.18
arteaga	580	Pr500	18.60	1146.10	1146.68	1146.73	1146.96	0.038727	2.34	7.95	20.25	1.19
arteaga	560	Pr25	7.14	1145.33	1145.73	1145.74	1145.89	0.034248	1.72	4.15	15.26	1.05
arteaga	560	Pr50	9.10	1145.33	1145.78	1145.80	1145.96	0.034662	1.86	4.89	16.17	1.08
arteaga	560	Pr100	11.50	1145.33	1145.84	1145.86	1146.04	0.033805	1.98	5.82	17.24	1.09
arteaga	560	Pr200	14.40	1145.33	1145.90	1145.92	1146.12	0.033392	2.10	6.85	18.37	1.10
arteaga	560	Pr500	18.60	1145.33	1145.96	1146.00	1146.23	0.033933	2.28	8.17	19.65	1.13
arteaga	540	Pr25	7.14	1144.58	1144.95	1144.98	1145.11	0.044899	1.75	4.09	18.08	1.17
arteaga	540	Pr50	9.10	1144.58	1144.99	1145.03	1145.17	0.045411	1.88	4.84	19.34	1.20
arteaga	540	Pr100	11.50	1144.58	1145.03	1145.08	1145.24	0.047165	2.05	5.61	20.24	1.24
arteaga	540	Pr200	14.40	1144.58	1145.07	1145.13	1145.32	0.048189	2.22	6.50	21.21	1.28
arteaga	540	Pr500	18.60	1144.58	1145.13	1145.20	1145.42	0.047968	2.41	7.73	22.21	1.30
arteaga	520	Pr25	7.14	1143.84	1144.21	1144.21	1144.34	0.032494	1.57	4.55	18.55	1.01
arteaga	520	Pr50	9.10	1143.84	1144.26	1144.26	1144.40	0.031909	1.67	5.44	19.86	1.02
arteaga	520	Pr100	11.50	1143.84	1144.31	1144.32	1144.47	0.030946	1.77	6.50	21.33	1.02
arteaga	520	Pr200	14.40	1143.84	1144.37	1144.37	1144.55	0.030502	1.88	7.68	22.83	1.03
arteaga	520	Pr500	18.60	1143.84	1144.43	1144.44	1144.64	0.030898	2.04	9.14	24.25	1.06
arteaga	500	Pr25	7.14	1143.07	1143.43	1143.46	1143.59	0.043811	1.75	4.08	17.70	1.16
arteaga	500	Pr50	9.10	1143.07	1143.47	1143.51	1143.65	0.044222	1.89	4.82	18.79	1.19
arteaga	500	Pr100	11.50	1143.07	1143.51	1143.56	1143.73	0.045159	2.03	5.65	19.96	1.22

HEC-RAS Plan: plmx2 River: arteaga Reach: arteaga (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arteaga	500	Pr200	14.40	1143.07	1143.56	1143.61	1143.80	0.045296	2.17	6.63	21.29	1.24
arteaga	500	Pr500	18.60	1143.07	1143.63	1143.68	1143.90	0.044318	2.31	8.04	23.08	1.25
arteaga	480	Pr25	7.14	1142.62	1143.02	1142.96	1143.09	0.016967	1.19	6.01	22.81	0.74
arteaga	480	Pr50	9.10	1142.62	1143.06	1143.00	1143.15	0.017066	1.29	7.07	23.90	0.76
arteaga	480	Pr100	11.50	1142.62	1143.11	1143.05	1143.21	0.017235	1.39	8.25	24.98	0.77
arteaga	480	Pr200	14.40	1142.62	1143.16	1143.10	1143.28	0.017815	1.52	9.49	25.92	0.80
arteaga	480	Pr500	18.60	1142.62	1143.23	1143.16	1143.36	0.017978	1.65	11.25	27.19	0.82
arteaga	460	Pr25	7.14	1142.24	1142.68		1142.75	0.016977	1.20	5.95	22.30	0.74
arteaga	460	Pr50	9.10	1142.24	1142.73		1142.81	0.016484	1.27	7.16	24.06	0.74
arteaga	460	Pr100	11.50	1142.24	1142.78		1142.88	0.016019	1.36	8.48	25.31	0.75
arteaga	460	Pr200	14.40	1142.24	1142.84		1142.95	0.014939	1.43	10.10	26.54	0.74
arteaga	460	Pr500	18.60	1142.24	1142.92		1143.04	0.014155	1.52	12.25	28.09	0.73
arteaga	440	Pr25	7.14	1141.86	1142.26		1142.36	0.022135	1.40	5.10	18.51	0.85
arteaga	440	Pr50	9.10	1141.86	1142.31	1142.28	1142.43	0.022313	1.52	5.99	19.31	0.87
arteaga	440	Pr100	11.50	1141.86	1142.36		1142.50	0.022120	1.63	7.04	20.22	0.88
arteaga	440	Pr200	14.40	1141.86	1142.41	1142.38	1142.57	0.022971	1.78	8.10	21.10	0.92
arteaga	440	Pr500	18.60	1141.86	1142.48	1142.46	1142.67	0.023506	1.94	9.59	22.27	0.94
arteaga	420	Pr25	7.14	1141.48	1141.87		1141.95	0.018913	1.23	5.78	22.50	0.78
arteaga	420	Pr50	9.10	1141.48	1141.91		1142.00	0.019297	1.34	6.78	23.66	0.80
arteaga	420	Pr100	11.50	1141.48	1141.96		1142.07	0.020011	1.46	7.88	24.87	0.83
arteaga	420	Pr200	14.40	1141.48	1142.01		1142.13	0.020103	1.56	9.20	26.26	0.84
arteaga	420	Pr500	18.60	1141.48	1142.07	1142.03	1142.22	0.020663	1.71	10.90	27.88	0.87
arteaga	400	Pr25	7.14	1141.10	1141.46		1141.54	0.021276	1.28	5.59	22.54	0.82
arteaga	400	Pr50	9.10	1141.10	1141.51		1141.60	0.020796	1.37	6.66	23.92	0.83
arteaga	400	Pr100	11.50	1141.10	1141.56		1141.67	0.020171	1.45	7.92	25.35	0.83
arteaga	400	Pr200	14.40	1141.10	1141.61		1141.73	0.019648	1.54	9.35	26.89	0.83
arteaga	400	Pr500	18.60	1141.10	1141.68		1141.82	0.018998	1.64	11.34	28.89	0.84
arteaga	380	Pr25	7.14	1140.72	1141.07	1141.02	1141.14	0.019344	1.17	6.11	26.25	0.77
arteaga	380	Pr50	9.10	1140.72	1141.10	1141.06	1141.19	0.020580	1.29	7.07	27.52	0.81

HEC-RAS Plan: plmx2 River: arteaga Reach: arteaga (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arteaga	380	Pr100	11.50	1140.72	1141.14	1141.10	1141.24	0.022347	1.43	8.06	28.62	0.86
arteaga	380	Pr200	14.40	1140.72	1141.17	1141.15	1141.30	0.024064	1.57	9.17	29.79	0.90
arteaga	380	Pr500	18.60	1140.72	1141.22	1141.21	1141.38	0.025954	1.74	10.66	31.30	0.95
arteaga	360	Pr25	7.14	1140.31	1140.53	1140.53	1140.61	0.038121	1.21	5.92	40.37	1.01
arteaga	360	Pr50	9.10	1140.31	1140.56	1140.56	1140.64	0.037000	1.30	7.02	42.03	1.01
arteaga	360	Pr100	11.50	1140.31	1140.59	1140.59	1140.69	0.035266	1.38	8.32	43.60	1.01
arteaga	360	Pr200	14.40	1140.31	1140.62	1140.62	1140.73	0.033630	1.47	9.78	45.07	1.01
arteaga	360	Pr500	18.60	1140.31	1140.66	1140.66	1140.79	0.032242	1.59	11.72	46.67	1.01
arteaga	340	Pr25	7.14	1139.30	1139.50	1139.53	1139.62	0.064509	1.49	4.79	35.24	1.29
arteaga	340	Pr50	9.10	1139.30	1139.53	1139.56	1139.66	0.067397	1.62	5.61	37.66	1.34
arteaga	340	Pr100	11.50	1139.30	1139.55	1139.59	1139.71	0.072440	1.78	6.46	39.83	1.41
arteaga	340	Pr200	14.40	1139.30	1139.57	1139.63	1139.76	0.073950	1.91	7.53	42.29	1.45
arteaga	340	Pr500	18.60	1139.30	1139.60	1139.67	1139.83	0.078537	2.09	8.89	45.61	1.51
arteaga	320	Pr25	7.14	1138.66	1138.84	1138.83	1138.90	0.035111	1.11	6.43	46.76	0.95
arteaga	320	Pr50	9.10	1138.66	1138.86	1138.86	1138.94	0.035427	1.22	7.46	47.43	0.98
arteaga	320	Pr100	11.50	1138.66	1138.89	1138.89	1138.98	0.035790	1.33	8.62	48.17	1.01
arteaga	320	Pr200	14.40	1138.66	1138.92	1138.92	1139.02	0.034214	1.43	10.07	49.08	1.01
arteaga	320	Pr500	18.60	1138.66	1138.96	1138.96	1139.08	0.032524	1.54	12.06	50.47	1.01
arteaga	300	Pr25	7.14	1137.77	1138.10	1138.10	1138.19	0.035826	1.38	5.19	27.68	1.02
arteaga	300	Pr50	9.10	1137.77	1138.13	1138.13	1138.24	0.034011	1.46	6.24	29.40	1.01
arteaga	300	Pr100	11.50	1137.77	1138.17	1138.17	1138.30	0.034317	1.58	7.29	30.71	1.03
arteaga	300	Pr200	14.40	1137.77	1138.21	1138.21	1138.35	0.032245	1.66	8.67	32.27	1.02
arteaga	300	Pr500	18.60	1137.77	1138.26	1138.27	1138.43	0.032071	1.79	10.37	34.25	1.04
arteaga	280	Pr25	7.14	1136.87	1137.22	1137.25	1137.36	0.049143	1.65	4.33	22.35	1.20
arteaga	280	Pr50	9.10	1136.87	1137.25	1137.29	1137.41	0.050273	1.78	5.10	23.77	1.23
arteaga	280	Pr100	11.50	1136.87	1137.29	1137.33	1137.48	0.049121	1.90	6.04	25.08	1.24
arteaga	280	Pr200	14.40	1136.87	1137.33	1137.38	1137.55	0.051127	2.07	6.96	26.29	1.28
arteaga	280	Pr500	18.60	1136.87	1137.38	1137.44	1137.63	0.049778	2.21	8.41	28.16	1.29
arteaga	260	Pr25	7.14	1135.95	1136.30	1136.31	1136.42	0.044476	1.57	4.55	23.43	1.14

HEC-RAS Plan: plmx2 River: arteaga Reach: arteaga (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arteaga	260	Pr50	9.10	1135.95	1136.33	1136.35	1136.47	0.043335	1.67	5.45	25.16	1.14
arteaga	260	Pr100	11.50	1135.95	1136.37	1136.40	1136.53	0.044693	1.80	6.37	26.75	1.18
arteaga	260	Pr200	14.40	1135.95	1136.41	1136.44	1136.60	0.043341	1.90	7.58	28.77	1.18
arteaga	260	Pr500	18.60	1135.95	1136.46	1136.50	1136.68	0.044862	2.08	8.96	30.53	1.22
arteaga	240	Pr25	7.14	1135.13	1135.45	1135.46	1135.56	0.041067	1.53	4.67	23.61	1.10
arteaga	240	Pr50	9.10	1135.13	1135.48	1135.50	1135.62	0.041912	1.65	5.51	25.12	1.13
arteaga	240	Pr100	11.50	1135.13	1135.52	1135.54	1135.68	0.040869	1.75	6.56	26.87	1.13
arteaga	240	Pr200	14.40	1135.13	1135.56	1135.59	1135.74	0.042161	1.89	7.62	28.52	1.17
arteaga	240	Pr500	18.60	1135.13	1135.61	1135.65	1135.82	0.040568	2.00	9.30	31.10	1.17
arteaga	220	Pr25	7.14	1134.20	1134.46	1134.49	1134.58	0.059357	1.59	4.50	28.38	1.27
arteaga	220	Pr50	9.10	1134.20	1134.49	1134.52	1134.63	0.058923	1.70	5.34	30.05	1.29
arteaga	220	Pr100	11.50	1134.20	1134.51	1134.56	1134.69	0.060650	1.86	6.19	31.29	1.33
arteaga	220	Pr200	14.40	1134.20	1134.55	1134.60	1134.75	0.059196	1.98	7.27	32.75	1.34
arteaga	220	Pr500	18.60	1134.20	1134.58	1134.65	1134.83	0.061531	2.18	8.54	34.38	1.39
arteaga	200	Pr25	7.14	1133.40	1133.74	1133.70	1133.82	0.020398	1.21	5.88	24.87	0.80
arteaga	200	Pr50	9.10	1133.40	1133.78	1133.74	1133.87	0.020799	1.32	6.89	26.03	0.82
arteaga	200	Pr100	11.50	1133.40	1133.83	1133.79	1133.93	0.020710	1.42	8.10	27.37	0.83
arteaga	200	Pr200	14.40	1133.40	1133.88	1133.83	1133.99	0.020646	1.52	9.47	28.77	0.85
arteaga	200	Pr500	18.60	1133.40	1133.94	1133.90	1134.08	0.020360	1.64	11.35	30.53	0.86
arteaga	180	Pr25	7.14	1133.04	1133.42		1133.48	0.013926	1.08	6.62	25.09	0.67
arteaga	180	Pr50	9.10	1133.04	1133.47		1133.54	0.013429	1.15	7.90	26.40	0.67
arteaga	180	Pr100	11.50	1133.04	1133.52		1133.60	0.013025	1.23	9.36	27.71	0.68
arteaga	180	Pr200	14.40	1133.04	1133.58		1133.67	0.012455	1.30	11.09	29.26	0.67
arteaga	180	Pr500	18.60	1133.04	1133.66		1133.76	0.011918	1.38	13.45	31.22	0.67
arteaga	160	Pr25	7.14	1132.67	1133.06		1133.15	0.019542	1.31	5.45	19.86	0.80
arteaga	160	Pr50	9.10	1132.67	1133.11		1133.21	0.019631	1.42	6.41	20.81	0.82
arteaga	160	Pr100	11.50	1132.67	1133.16		1133.28	0.019426	1.52	7.55	21.88	0.83
arteaga	160	Pr200	14.40	1132.67	1133.22		1133.35	0.019811	1.64	8.76	22.96	0.85
arteaga	160	Pr500	18.60	1132.67	1133.29	1133.24	1133.45	0.019844	1.78	10.45	24.34	0.87

HEC-RAS Plan: plmx2 River: arteaga Reach: arteaga (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arteaga	140	Pr25	7.14	1132.31	1132.69	1132.64	1132.77	0.018335	1.21	5.91	23.17	0.76
arteaga	140	Pr50	9.10	1132.31	1132.73	1132.69	1132.82	0.019089	1.33	6.87	24.19	0.79
arteaga	140	Pr100	11.50	1132.31	1132.78	1132.73	1132.88	0.019988	1.45	7.93	25.28	0.83
arteaga	140	Pr200	14.40	1132.31	1132.83	1132.78	1132.95	0.020452	1.57	9.19	26.50	0.85
arteaga	140	Pr500	18.60	1132.31	1132.89	1132.85	1133.04	0.021426	1.72	10.81	28.06	0.88
arteaga	120	Pr25	7.14	1131.95	1132.27		1132.34	0.024573	1.23	5.82	27.80	0.86
arteaga	120	Pr50	9.10	1131.95	1132.31		1132.39	0.024268	1.32	6.90	29.37	0.87
arteaga	120	Pr100	11.50	1131.95	1132.35		1132.45	0.023742	1.41	8.15	30.78	0.88
arteaga	120	Pr200	14.40	1131.95	1132.39		1132.51	0.023649	1.51	9.51	32.23	0.89
arteaga	120	Pr500	18.60	1131.95	1132.45	1132.42	1132.58	0.023433	1.63	11.44	34.57	0.90
arteaga	100	Pr25	7.14	1131.58	1131.95		1132.00	0.012248	0.98	7.28	28.90	0.62
arteaga	100	Pr50	9.10	1131.58	1132.00		1132.05	0.011952	1.04	8.72	30.93	0.63
arteaga	100	Pr100	11.50	1131.58	1132.05		1132.11	0.011773	1.11	10.35	33.07	0.63
arteaga	100	Pr200	14.40	1131.58	1132.10		1132.17	0.011403	1.17	12.26	35.18	0.64
arteaga	100	Pr500	18.60	1131.58	1132.18		1132.26	0.010920	1.24	14.95	38.12	0.63
arteaga	80	Pr25	7.14	1131.21	1131.61		1131.69	0.020236	1.26	5.67	22.51	0.80
arteaga	80	Pr50	9.10	1131.21	1131.65		1131.74	0.020185	1.35	6.73	23.97	0.81
arteaga	80	Pr100	11.50	1131.21	1131.70		1131.81	0.020028	1.45	7.91	25.16	0.83
arteaga	80	Pr200	14.40	1131.21	1131.75	1131.70	1131.87	0.019856	1.55	9.26	26.45	0.84
arteaga	80	Pr500	18.60	1131.21	1131.82		1131.96	0.019655	1.66	11.20	28.77	0.85
arteaga	60	Pr25	7.14	1130.62	1131.05	1131.05	1131.18	0.031910	1.62	4.40	16.84	1.01
arteaga	60	Pr50	9.10	1130.62	1131.10	1131.10	1131.25	0.030535	1.71	5.31	18.10	1.01
arteaga	60	Pr100	11.50	1130.62	1131.15	1131.15	1131.32	0.029422	1.81	6.37	19.49	1.01
arteaga	60	Pr200	14.40	1130.62	1131.21	1131.21	1131.40	0.028394	1.90	7.58	20.97	1.01
arteaga	60	Pr500	18.60	1130.62	1131.29	1131.29	1131.50	0.027292	2.02	9.22	22.58	1.01
arteaga	40	Pr25	7.14	1130.02	1130.43	1130.41	1130.54	0.026047	1.50	4.76	17.56	0.92
arteaga	40	Pr50	9.10	1130.02	1130.48	1130.46	1130.61	0.025811	1.62	5.63	18.49	0.93
arteaga	40	Pr100	11.50	1130.02	1130.50	1130.51	1130.68	0.034378	1.92	6.00	18.86	1.09
arteaga	40	Pr200	14.40	1130.02	1130.54	1130.57	1130.76	0.035211	2.07	6.95	19.79	1.12
arteaga	40	Pr500	18.60	1130.02	1130.61	1130.65	1130.87	0.036148	2.26	8.23	20.98	1.15

HEC-RAS Plan: plmx2 River: arteaga Reach: arteaga (Continued)

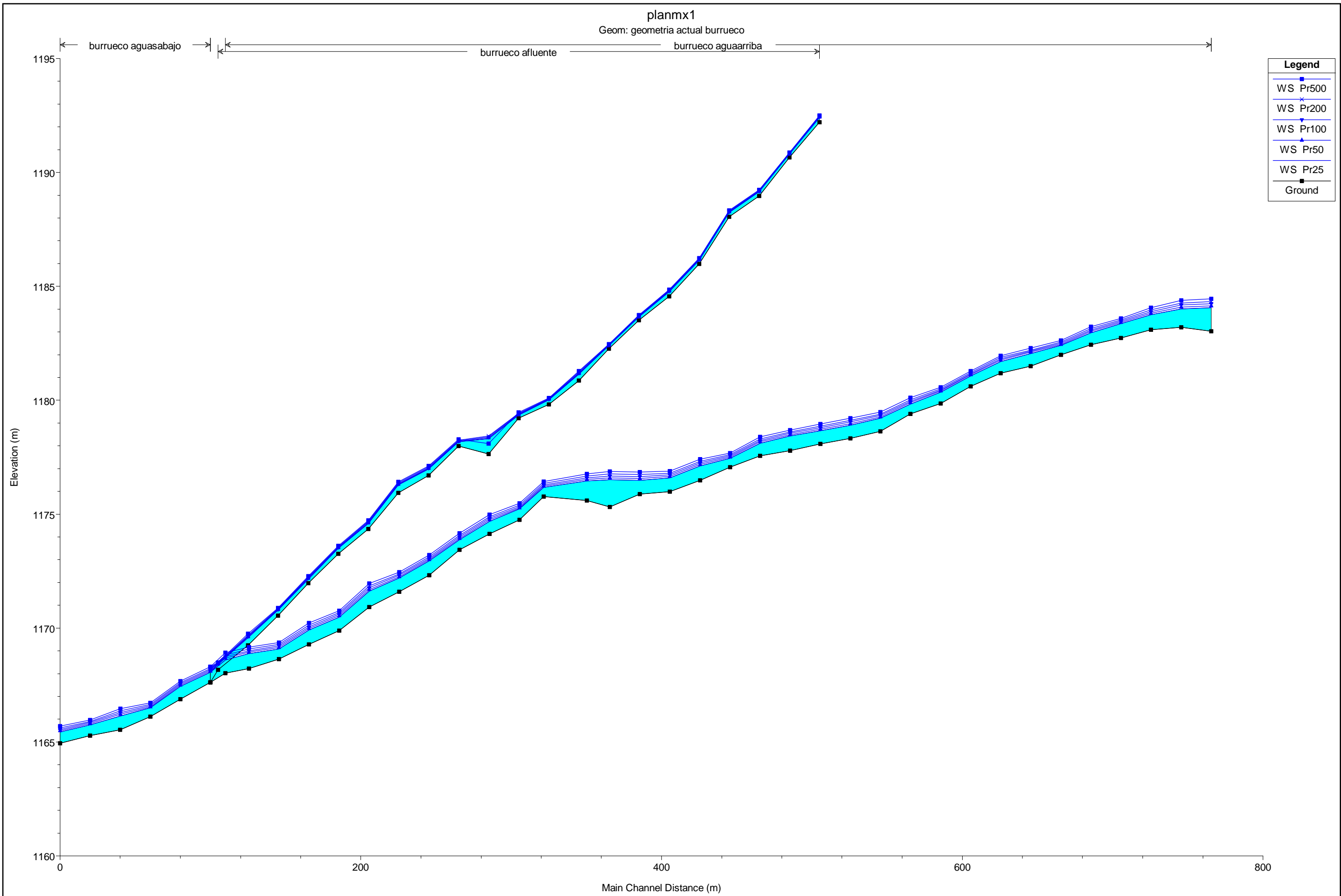
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
arteaga	20	Pr25	7.14	1129.41	1129.84	1129.84	1129.98	0.030317	1.64	4.35	15.68	1.00
arteaga	20	Pr50	9.10	1129.41	1129.89	1129.89	1130.05	0.029902	1.76	5.16	16.57	1.01
arteaga	20	Pr100	11.50	1129.41	1129.95	1129.95	1130.13	0.028851	1.87	6.14	17.53	1.01
arteaga	20	Pr200	14.40	1129.41	1130.01	1130.01	1130.21	0.027841	1.98	7.27	18.57	1.01
arteaga	20	Pr500	18.60	1129.41	1130.09	1130.09	1130.32	0.026709	2.11	8.83	19.92	1.01

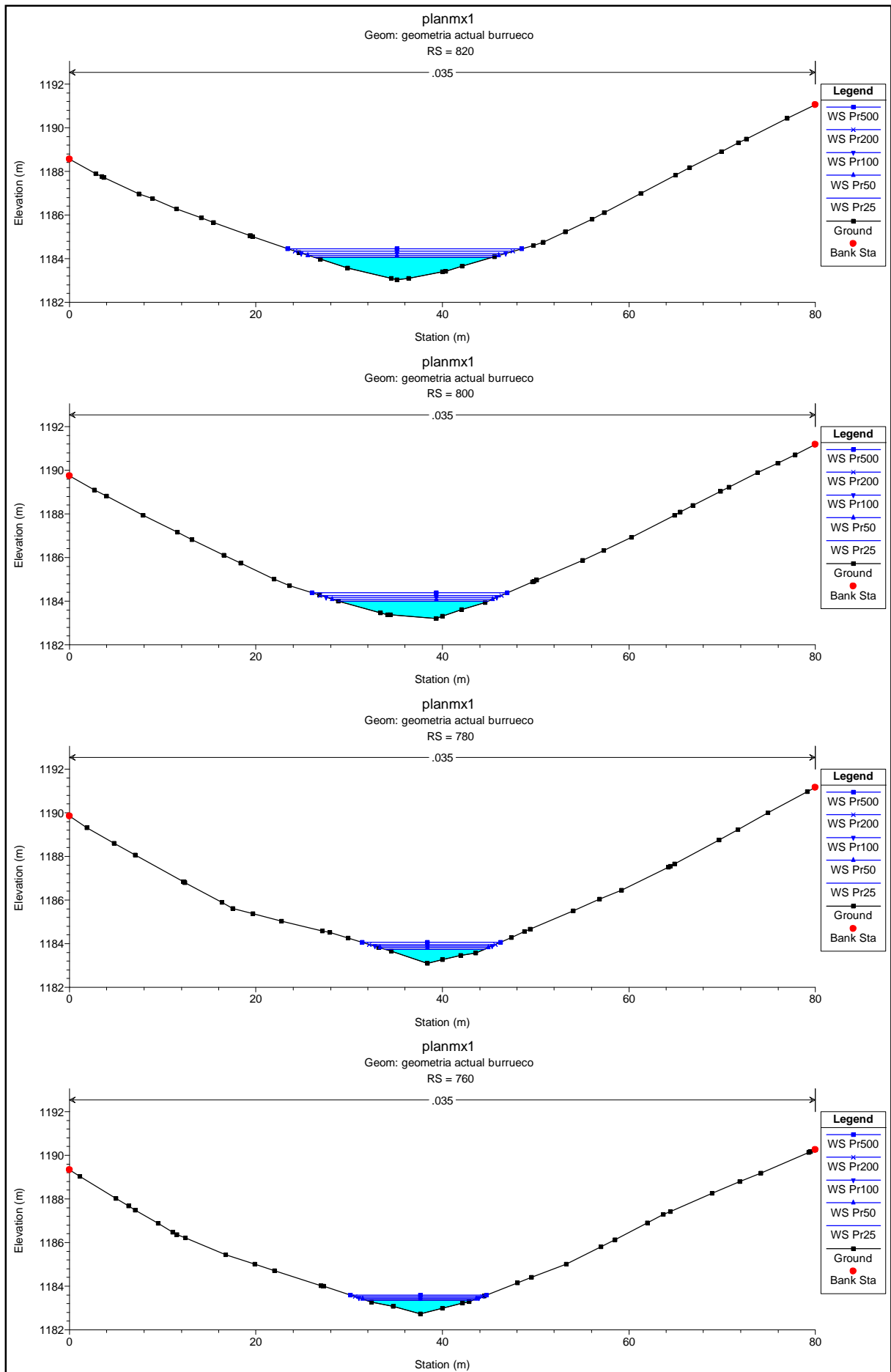
ANEXO 2. LISTADOS RESULTADOS HIDRÁULICOS. HEC-RAS

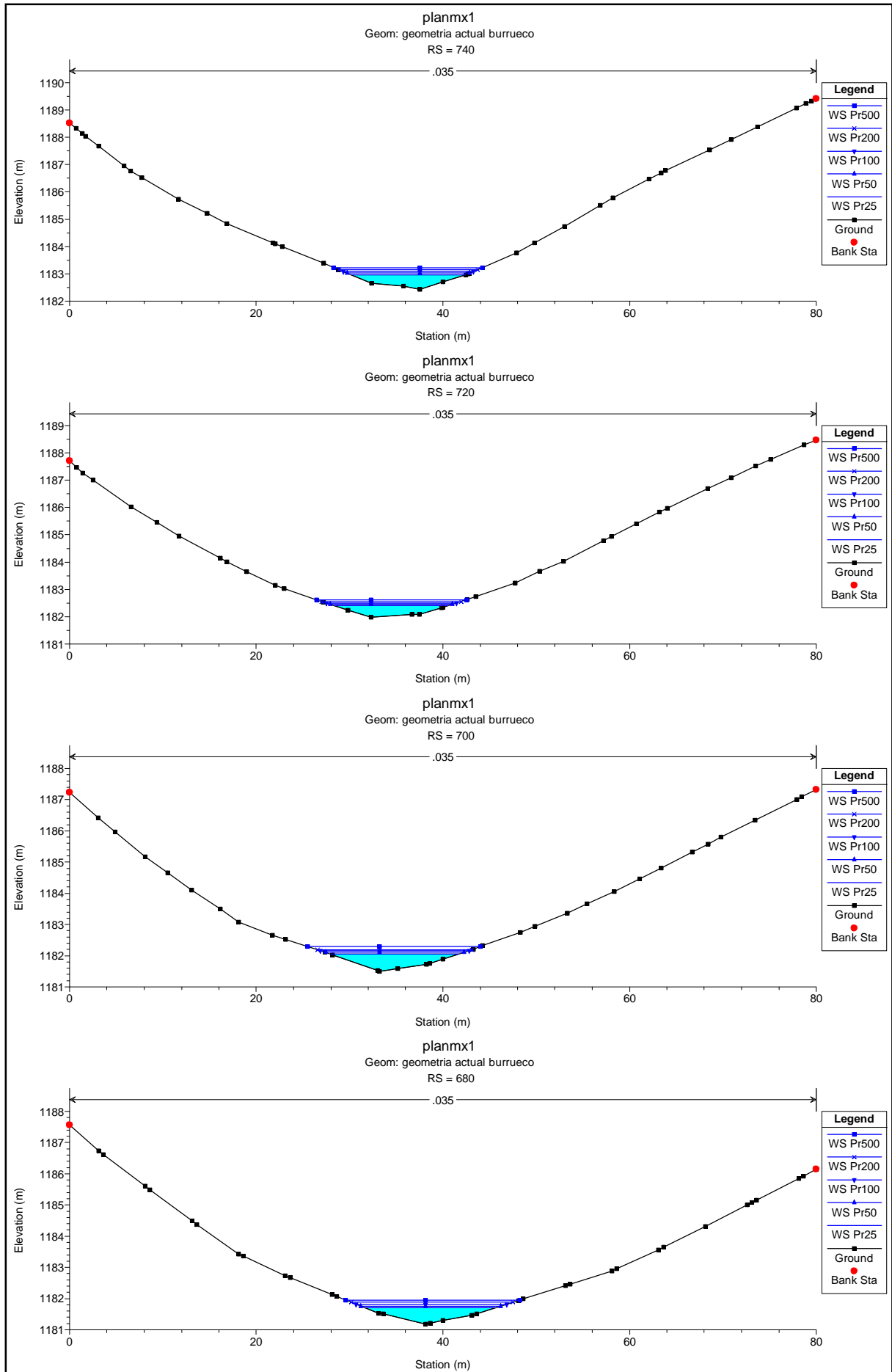
- **BURRUECO**

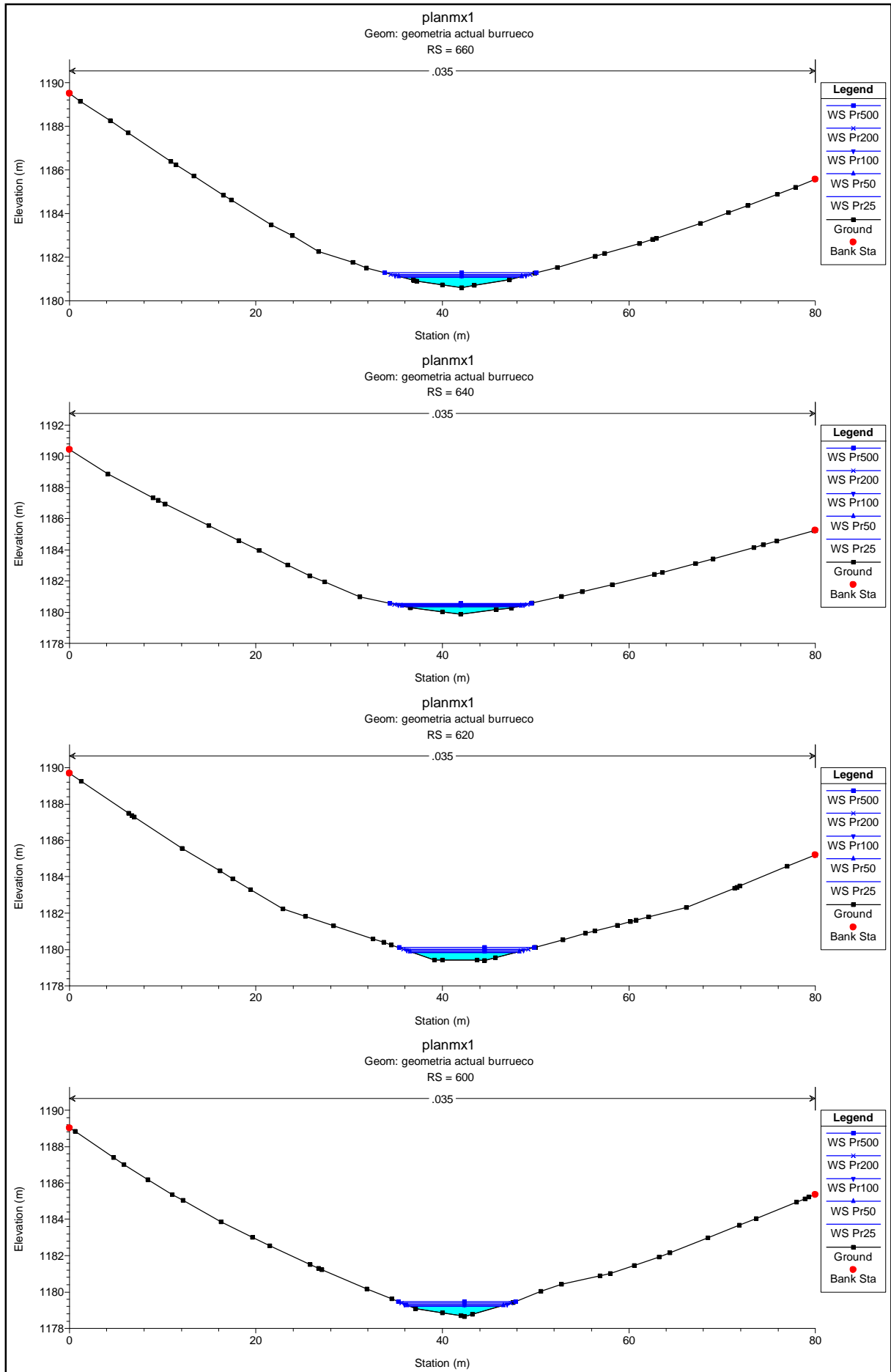


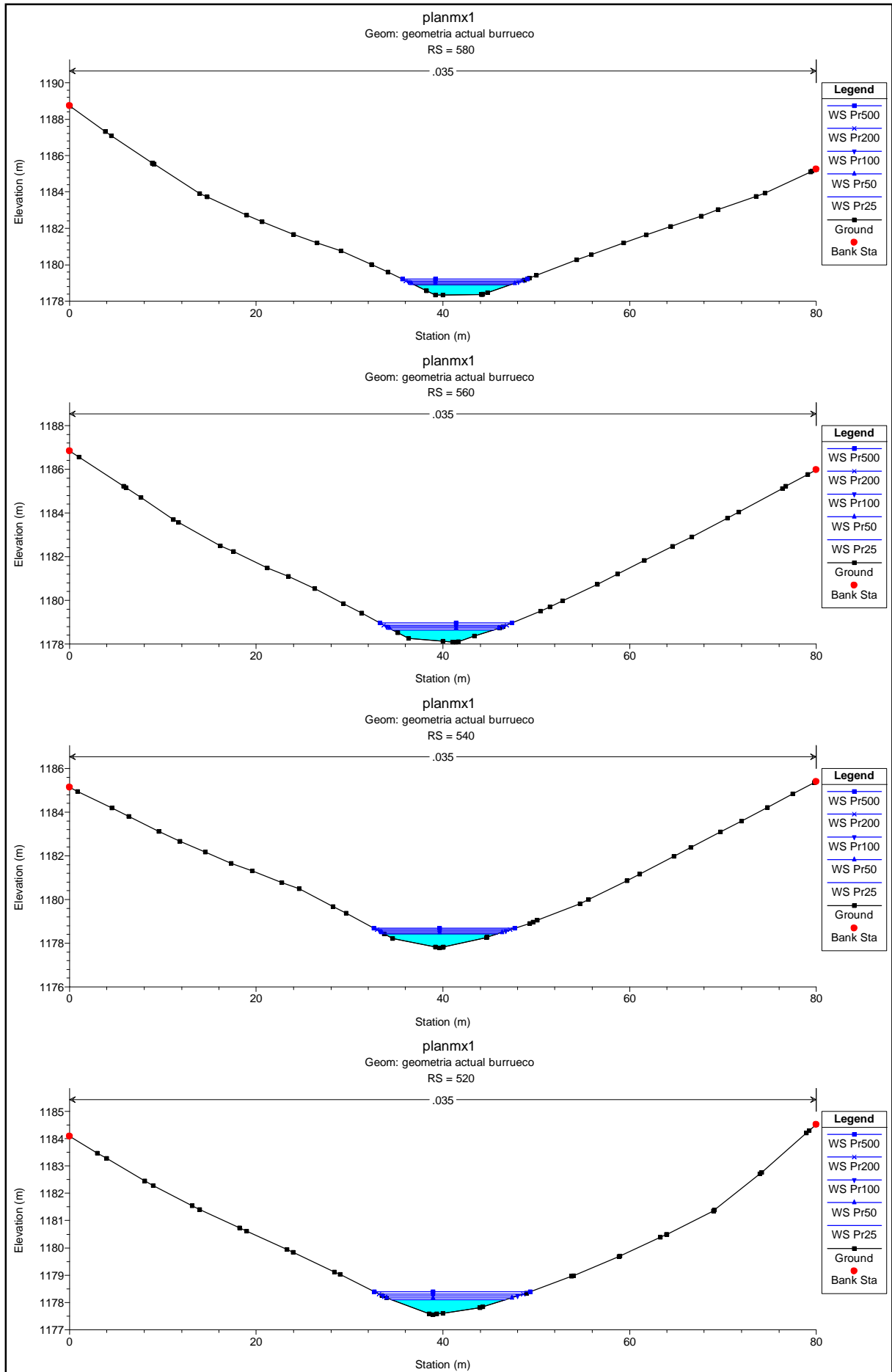
1 cm Horiz. = 40 m 1 cm Vert. = 40 m

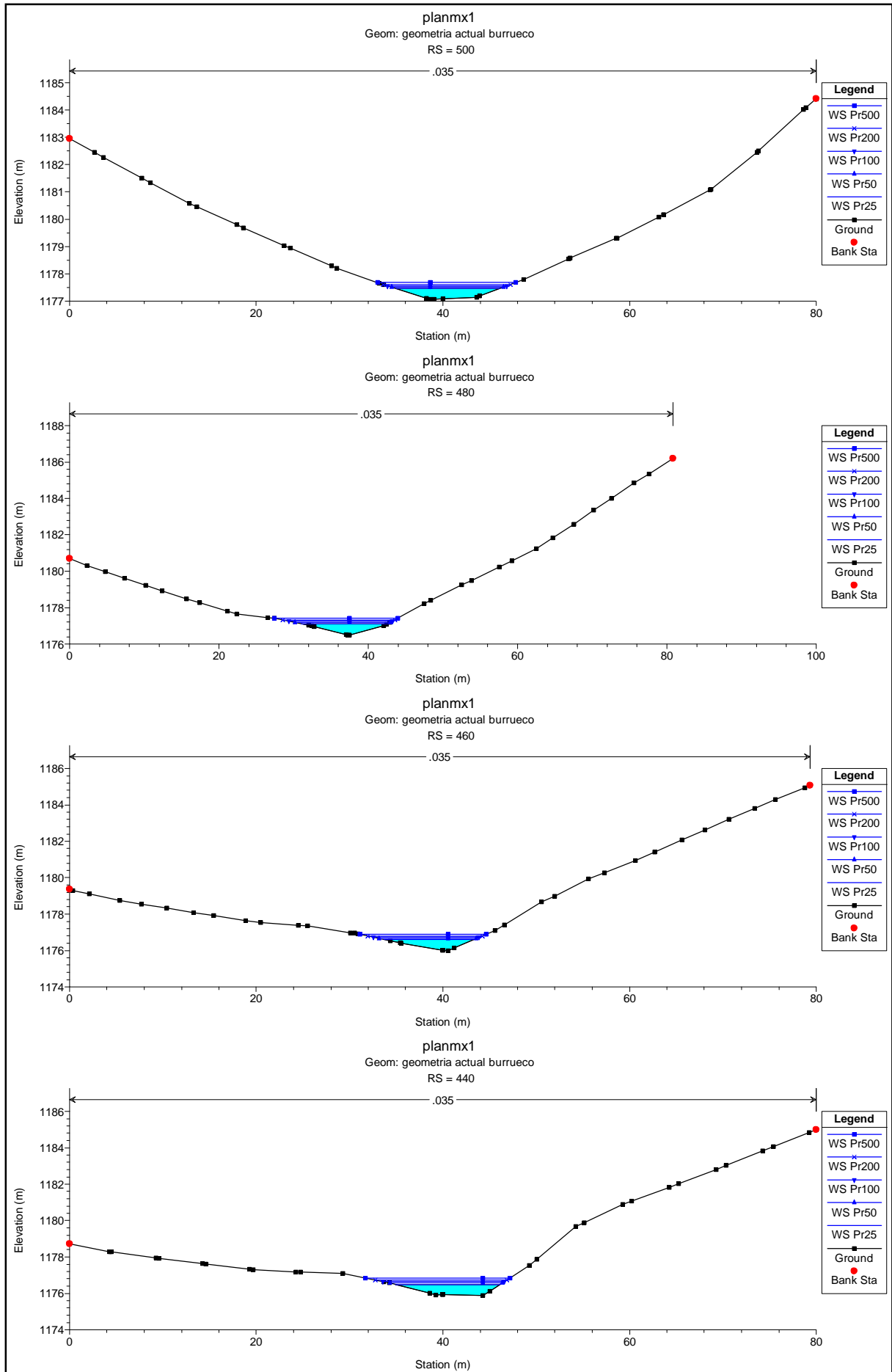


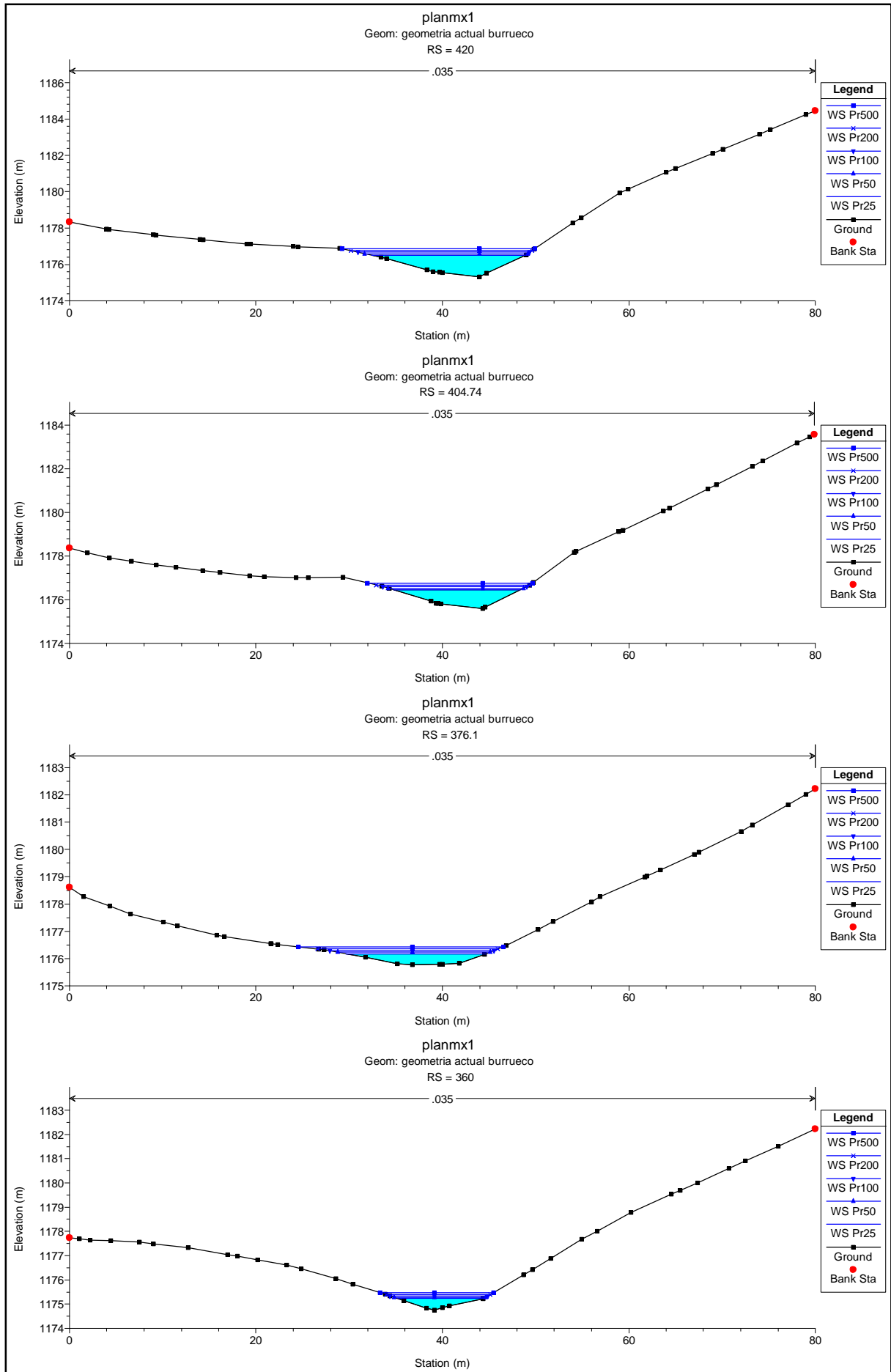


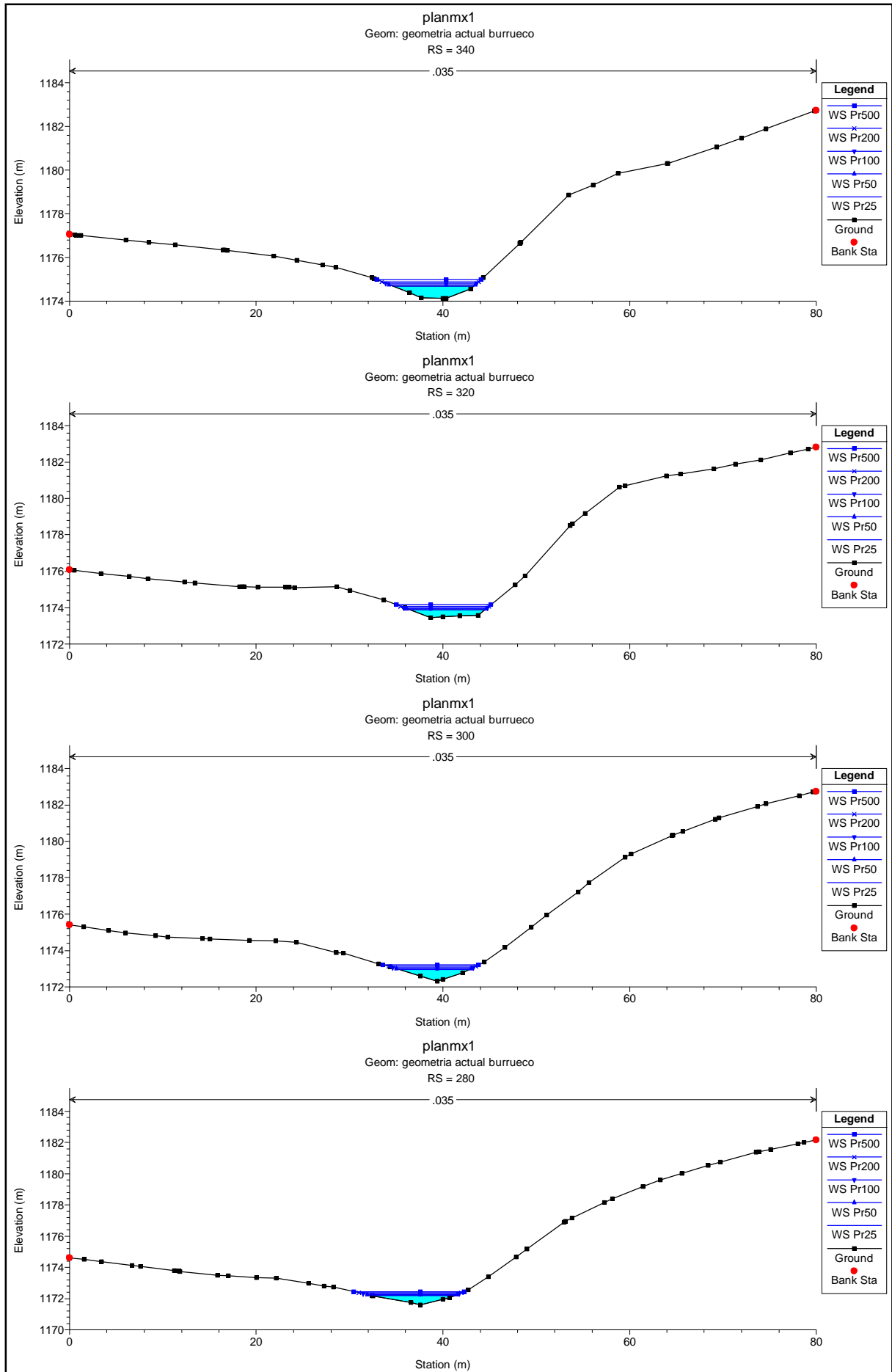


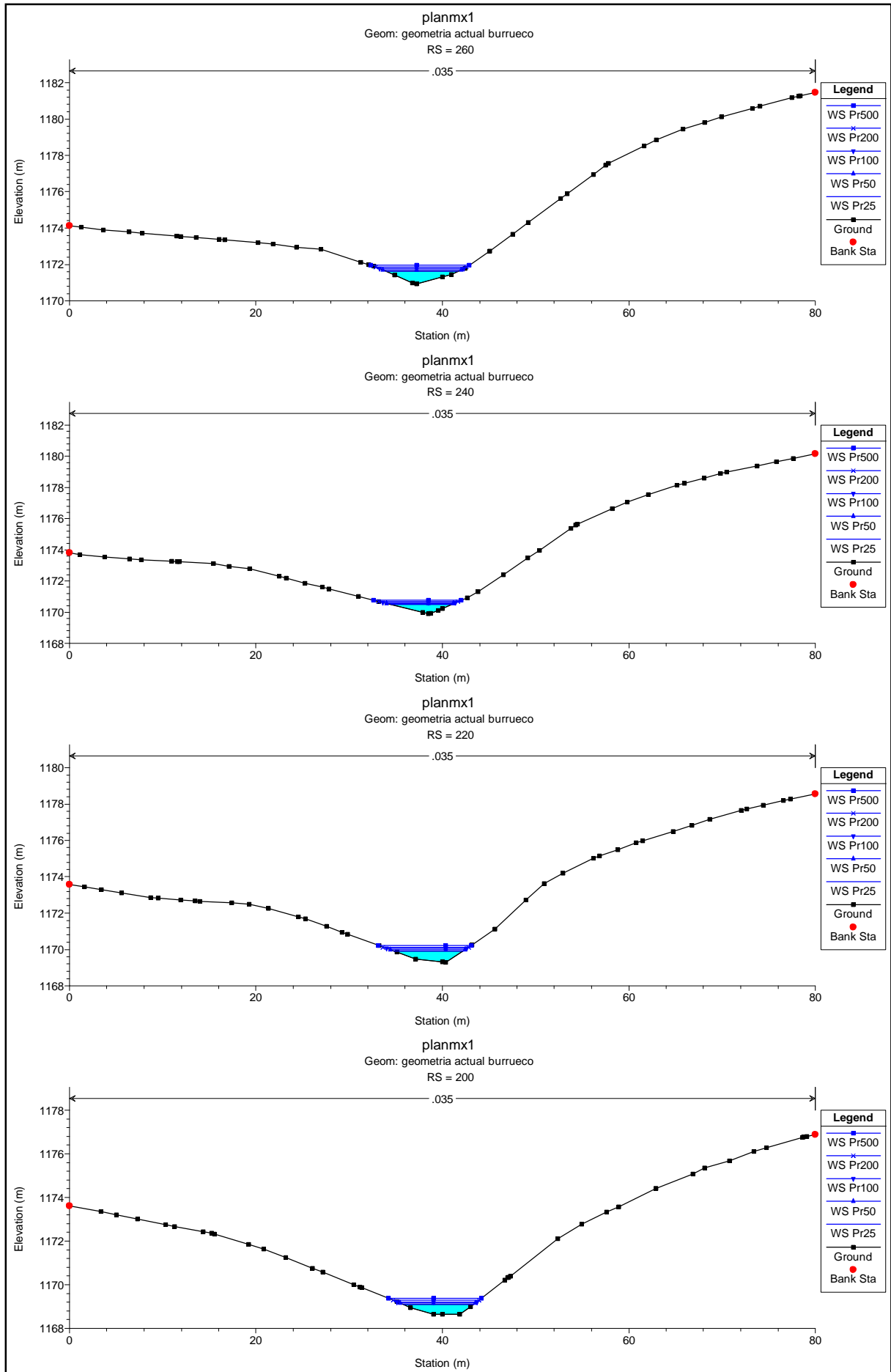


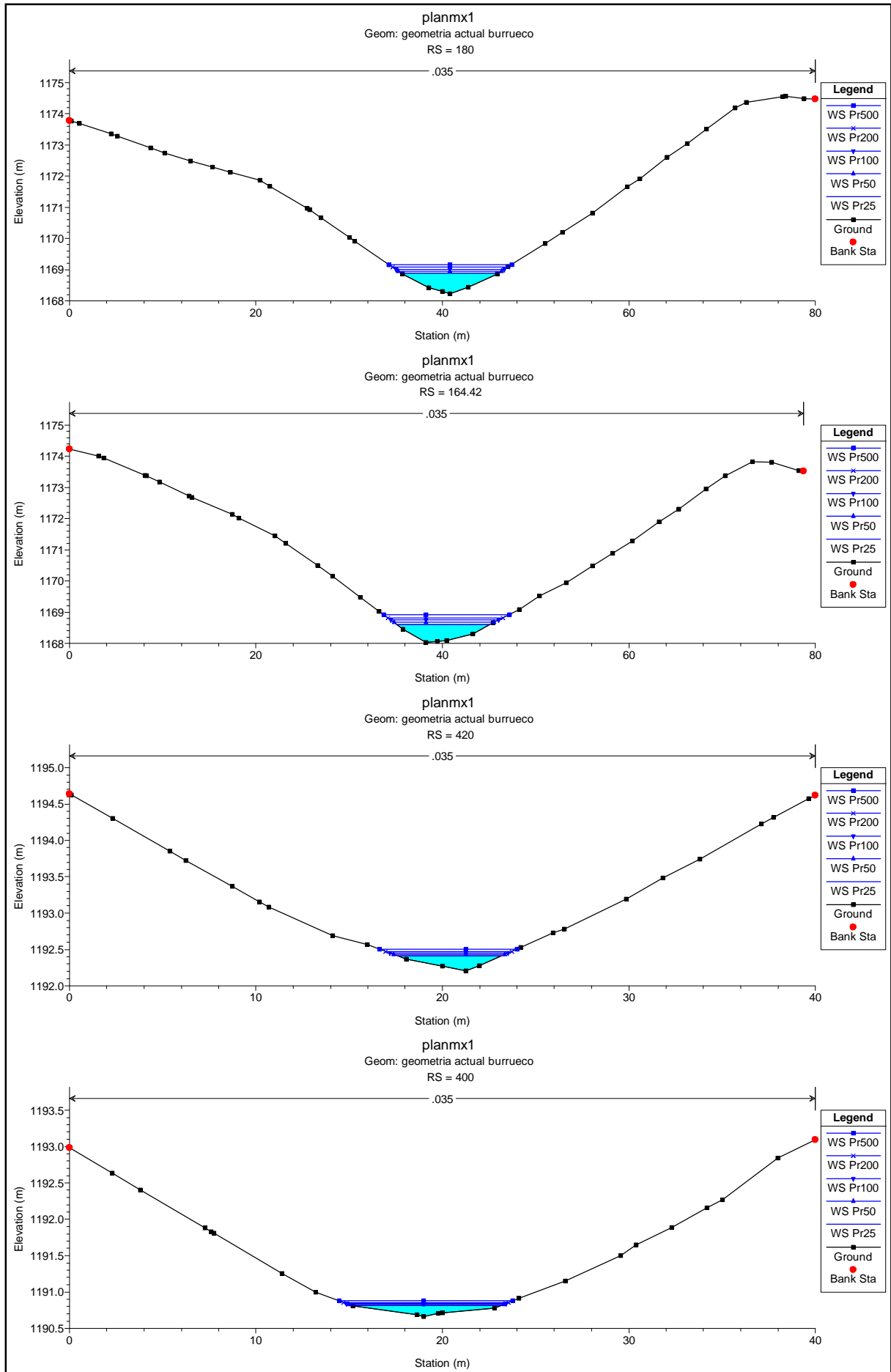


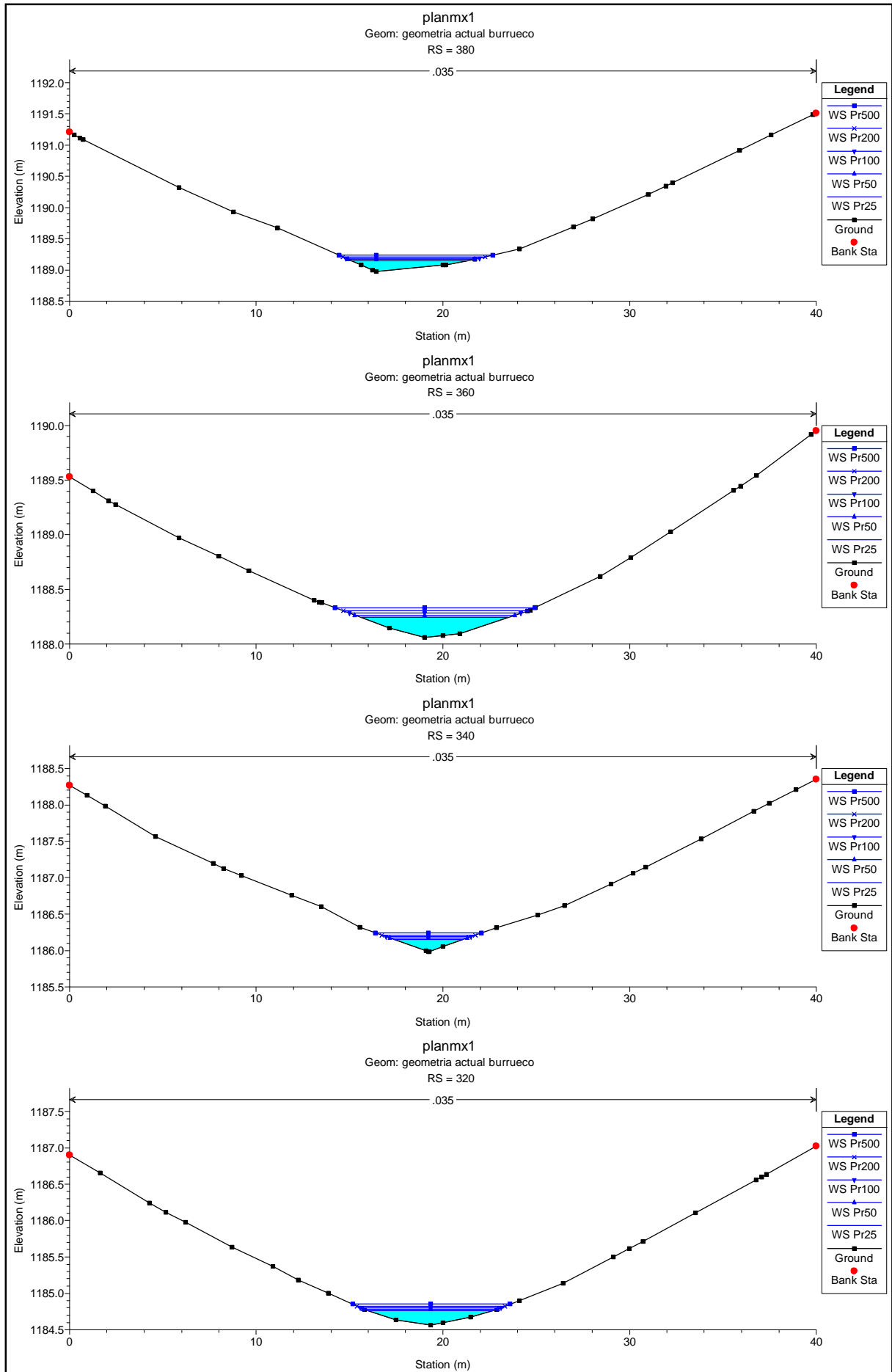


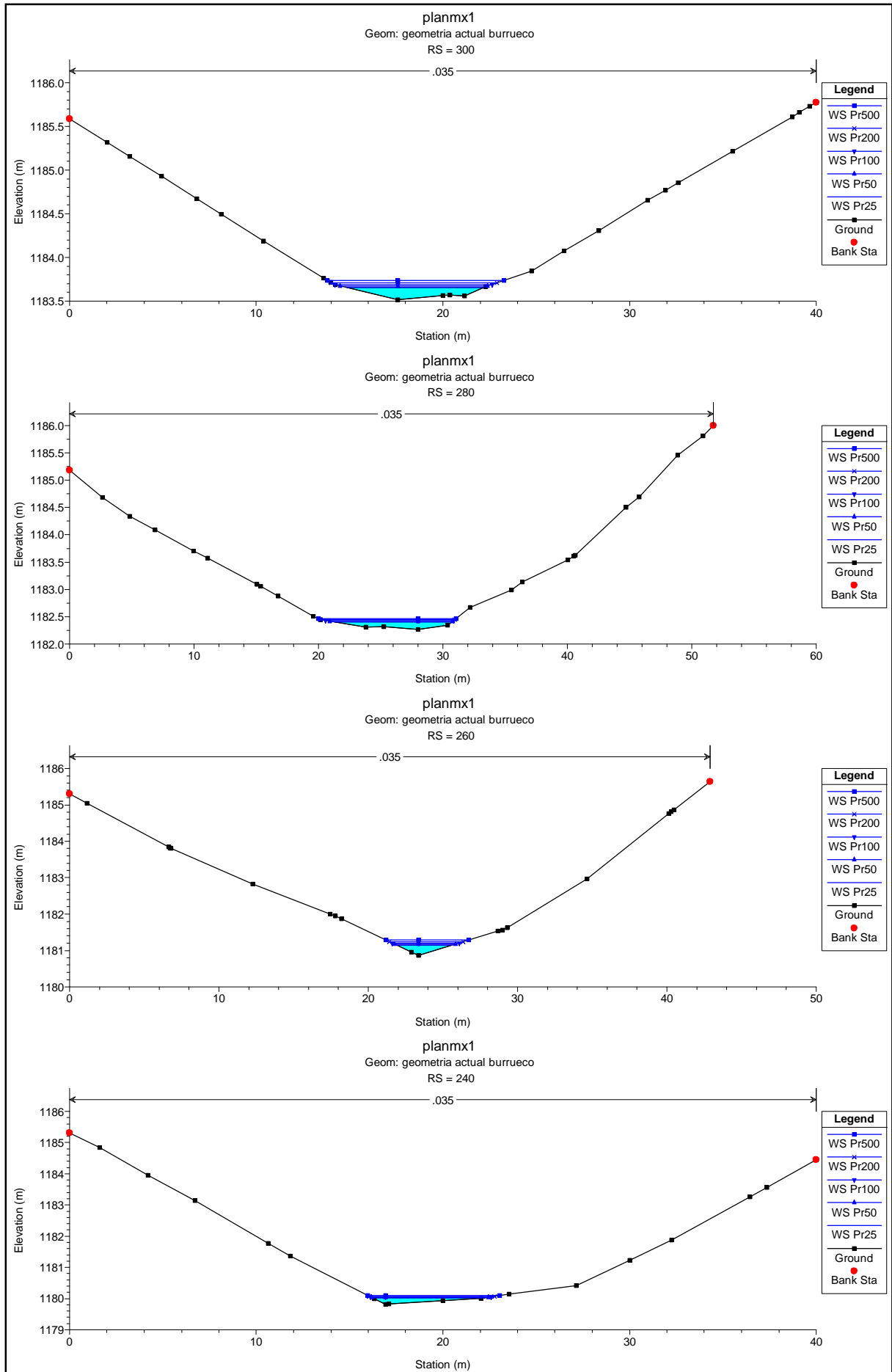


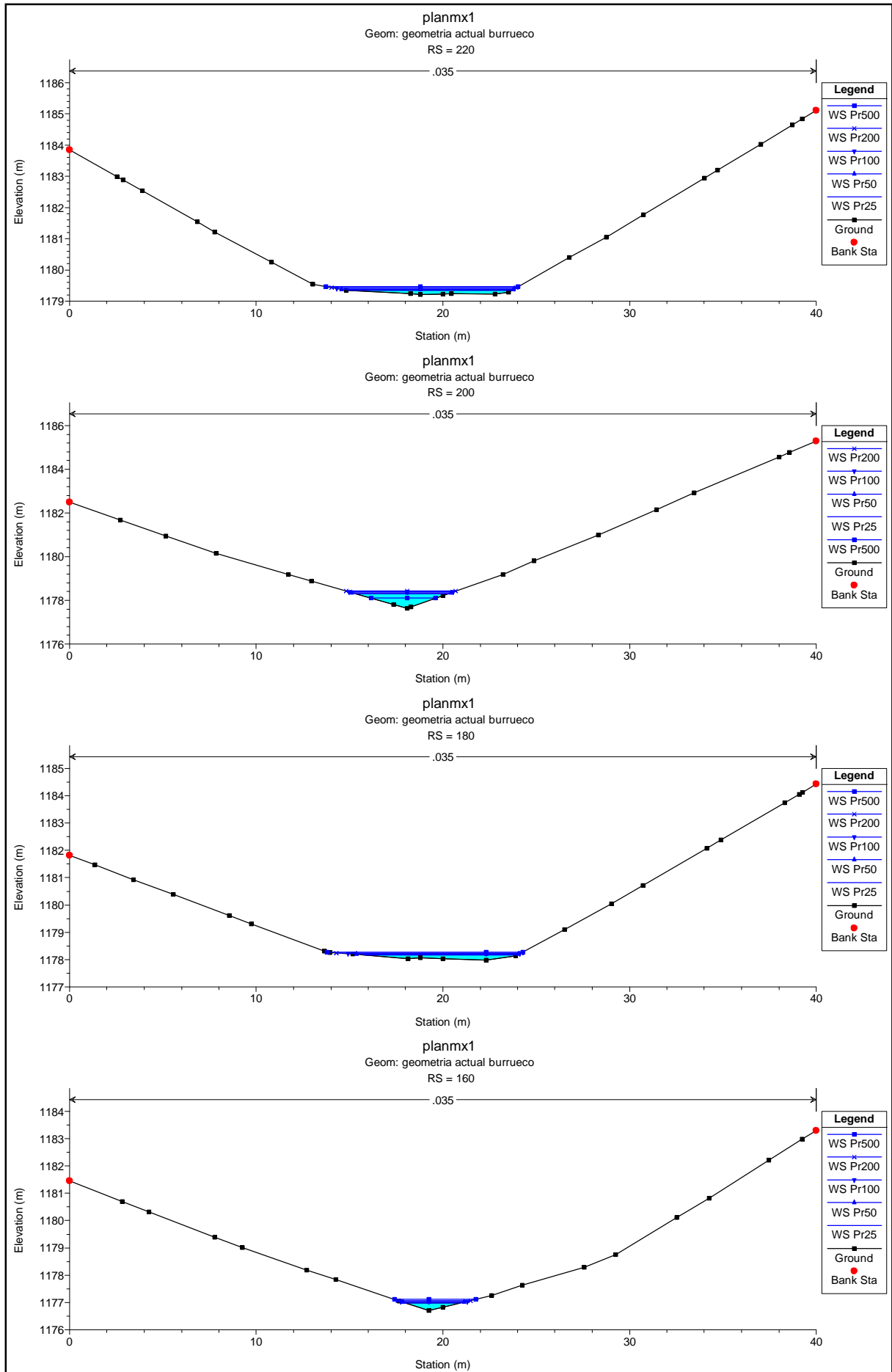


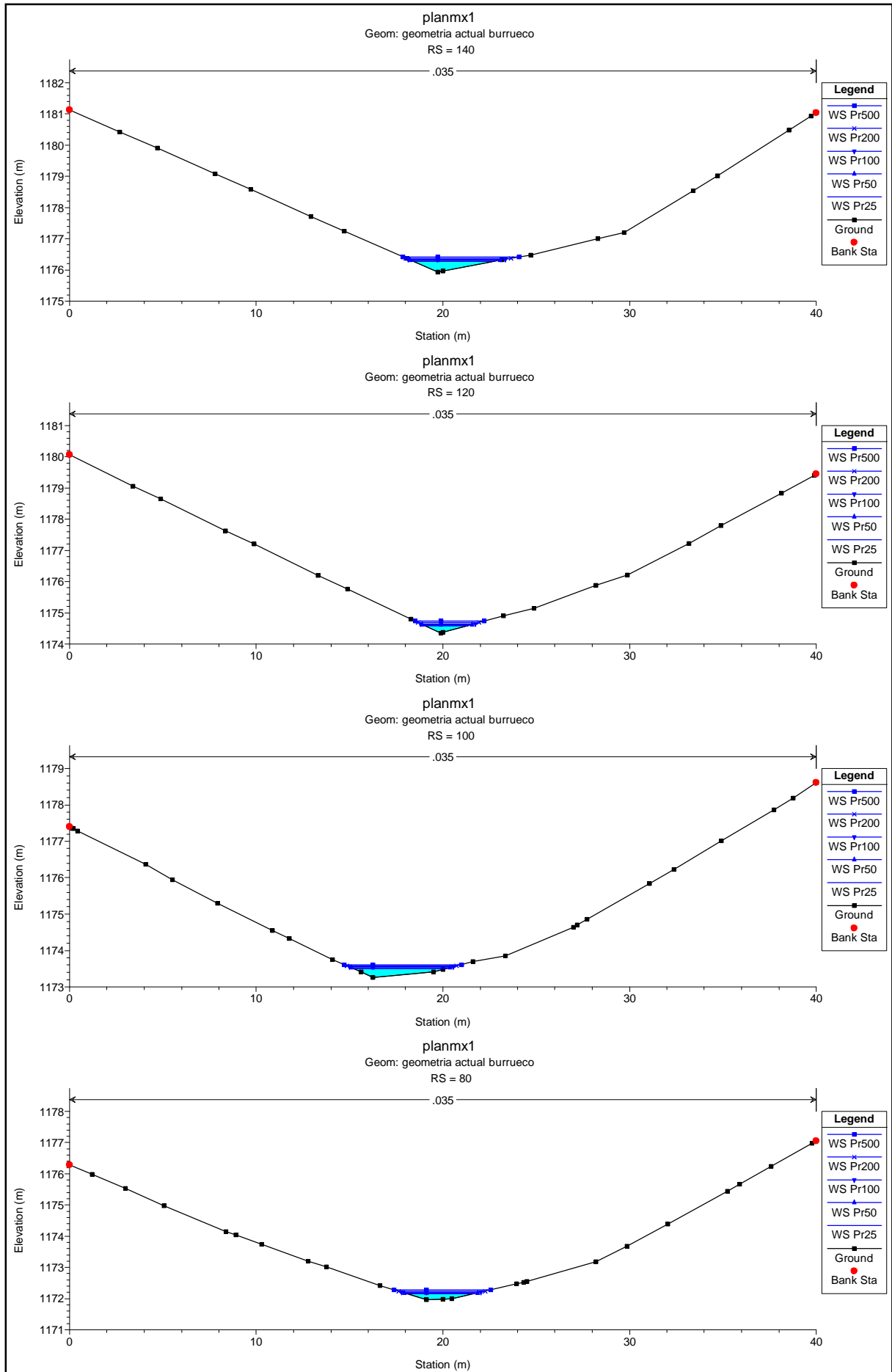


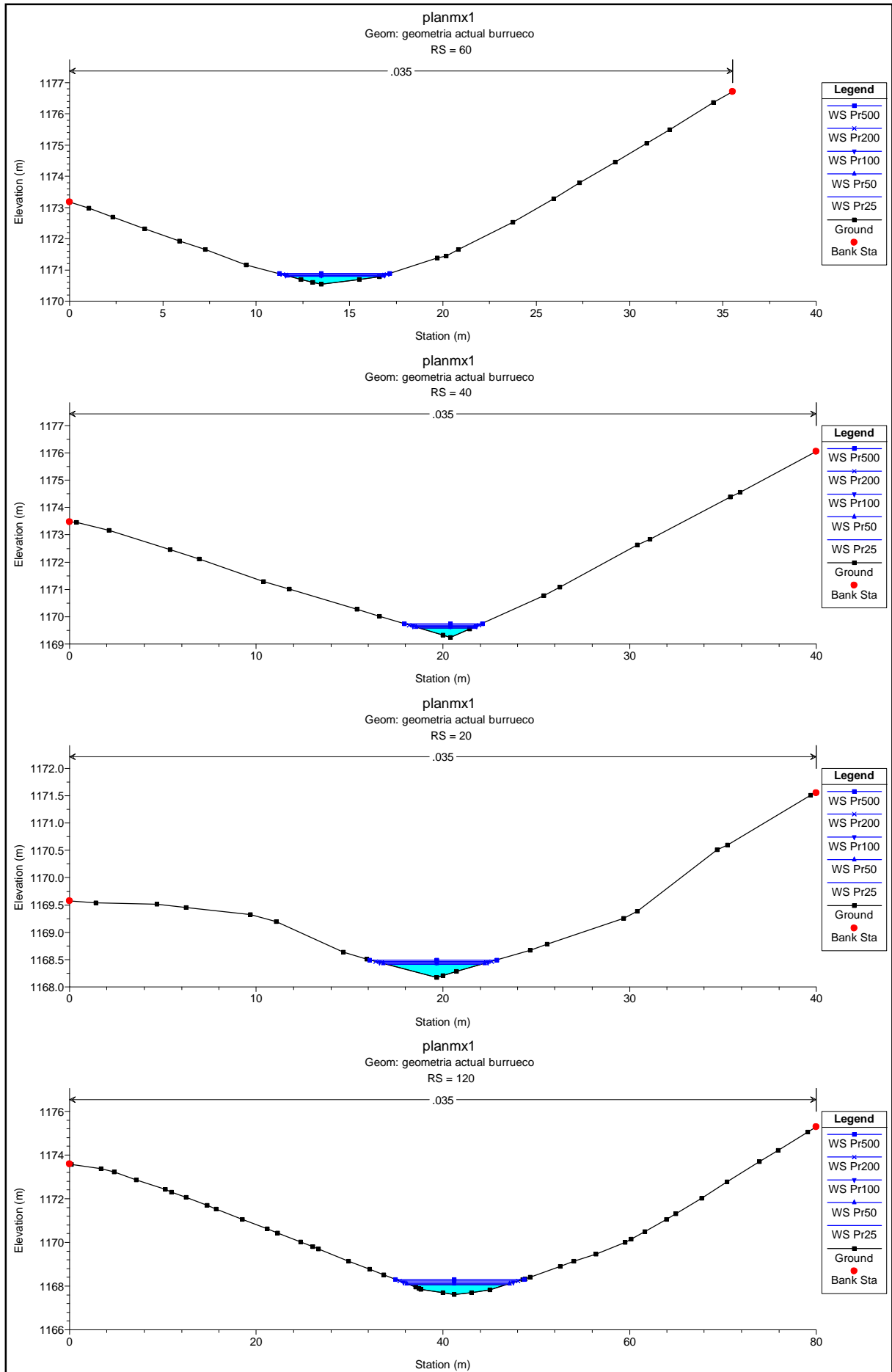


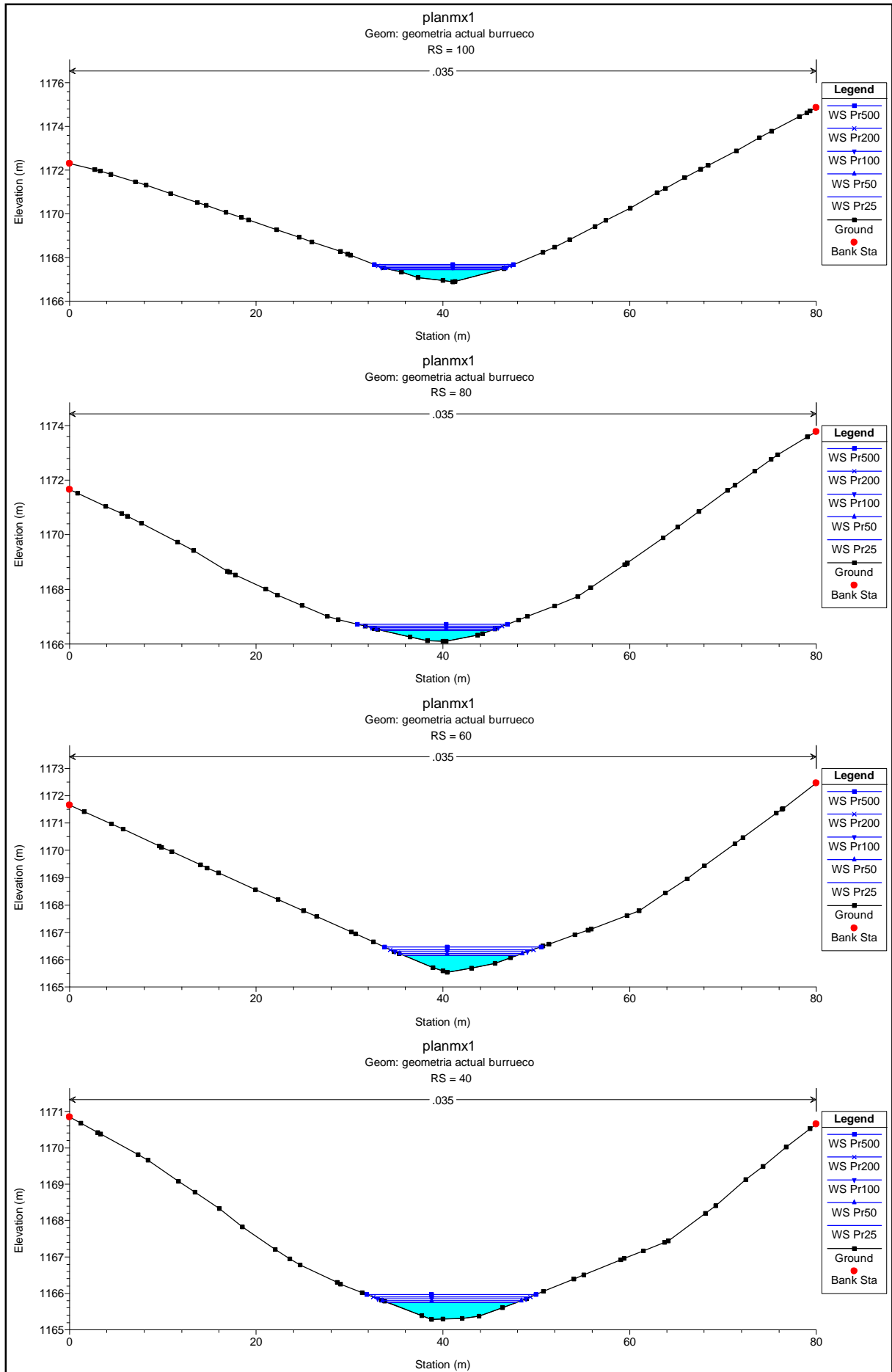


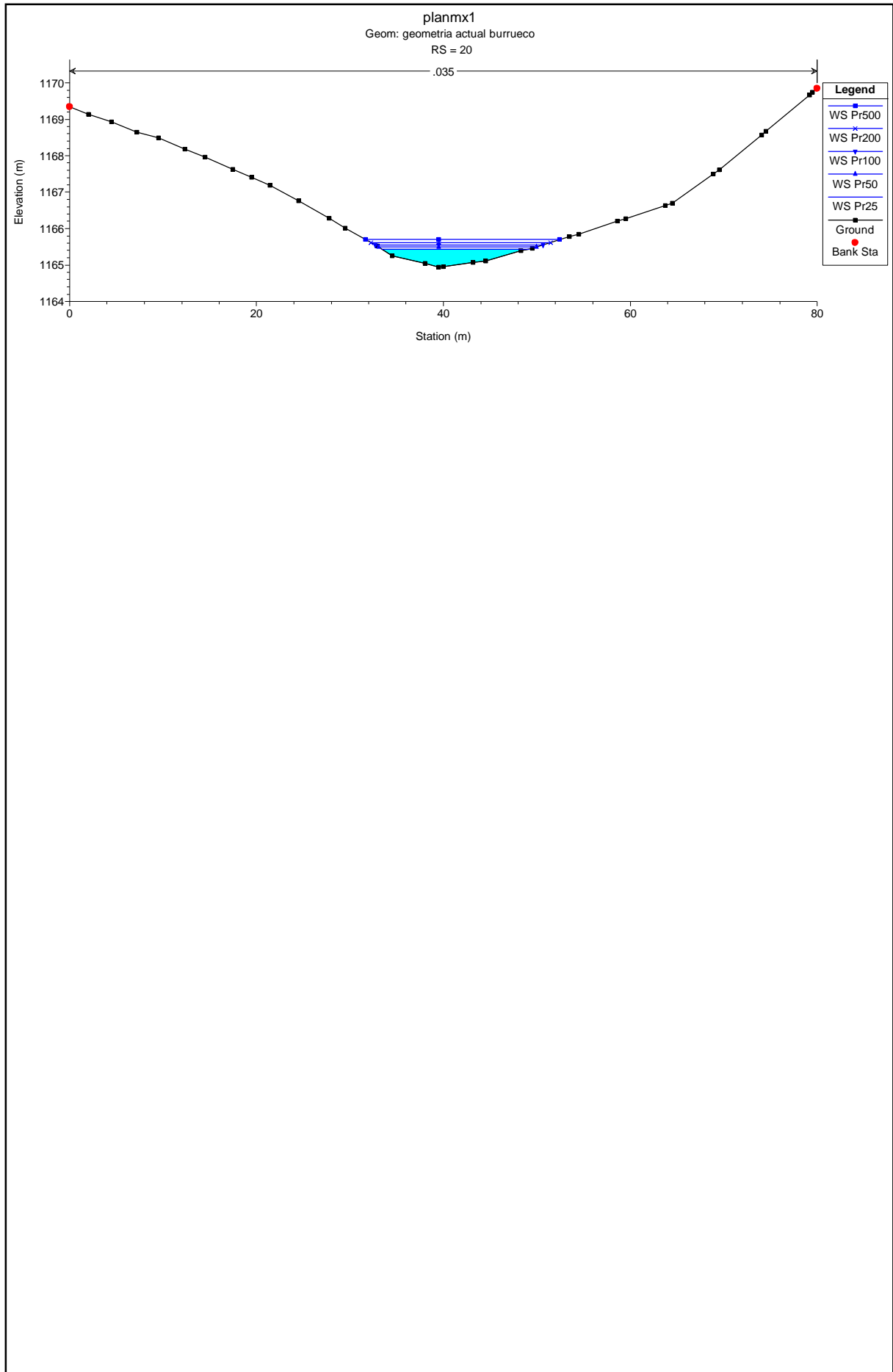












HEC-RAS Plan: plmx1

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
aguaarriba	820	Pr25	6.70	1183.03	1184.06	1183.61	1184.08	0.000993	0.62	10.88	19.11	0.26
aguaarriba	820	Pr50	8.60	1183.03	1184.15	1183.67	1184.17	0.001086	0.68	12.65	20.50	0.28
aguaarriba	820	Pr100	10.80	1183.03	1184.24	1183.74	1184.27	0.001171	0.74	14.57	21.91	0.29
aguaarriba	820	Pr200	13.40	1183.03	1184.33	1183.80	1184.37	0.001245	0.80	16.69	23.32	0.30
aguaarriba	820	Pr500	17.26	1183.03	1184.46	1183.89	1184.50	0.001329	0.88	19.62	25.10	0.32
aguaarriba	800	Pr25	6.70	1183.20	1184.01		1184.05	0.002642	0.88	7.58	16.14	0.41
aguaarriba	800	Pr50	8.60	1183.20	1184.09		1184.14	0.002689	0.96	8.99	17.22	0.42
aguaarriba	800	Pr100	10.80	1183.20	1184.18		1184.23	0.002737	1.03	10.51	18.31	0.43
aguaarriba	800	Pr200	13.40	1183.20	1184.27		1184.33	0.002785	1.10	12.19	19.45	0.44
aguaarriba	800	Pr500	17.26	1183.20	1184.38		1184.45	0.002851	1.19	14.52	20.94	0.46
aguaarriba	780	Pr25	6.70	1183.09	1183.75	1183.75	1183.92	0.017926	1.85	3.63	10.72	1.01
aguaarriba	780	Pr50	8.60	1183.09	1183.82	1183.82	1184.01	0.017272	1.95	4.41	11.65	1.01
aguaarriba	780	Pr100	10.80	1183.09	1183.89	1183.89	1184.10	0.016678	2.05	5.26	12.58	1.01
aguaarriba	780	Pr200	13.40	1183.09	1183.96	1183.96	1184.20	0.016135	2.15	6.23	13.55	1.01
aguaarriba	780	Pr500	17.26	1183.09	1184.06	1184.06	1184.32	0.015456	2.27	7.62	14.82	1.01
aguaarriba	760	Pr25	6.70	1182.74	1183.36	1183.37	1183.54	0.020724	1.88	3.56	11.46	1.08
aguaarriba	760	Pr50	8.60	1182.74	1183.41	1183.44	1183.63	0.021628	2.05	4.19	12.16	1.12
aguaarriba	760	Pr100	10.80	1182.74	1183.47	1183.51	1183.72	0.022339	2.22	4.86	12.88	1.15
aguaarriba	760	Pr200	13.40	1182.74	1183.52	1183.58	1183.81	0.022923	2.38	5.62	13.64	1.19
aguaarriba	760	Pr500	17.26	1182.74	1183.60	1183.67	1183.94	0.023582	2.59	6.67	14.62	1.22
aguaarriba	740	Pr25	6.70	1182.44	1182.97	1182.97	1183.13	0.019628	1.80	3.72	12.25	1.04
aguaarriba	740	Pr50	8.60	1182.44	1183.03	1183.04	1183.21	0.019143	1.92	4.48	13.14	1.05
aguaarriba	740	Pr100	10.80	1182.44	1183.09	1183.10	1183.30	0.018793	2.04	5.29	13.97	1.06
aguaarriba	740	Pr200	13.40	1182.44	1183.15	1183.17	1183.39	0.018616	2.17	6.18	14.84	1.07
aguaarriba	740	Pr500	17.26	1182.44	1183.23	1183.26	1183.50	0.018504	2.33	7.42	15.95	1.09
aguaarriba	720	Pr25	6.70	1181.99	1182.41	1182.46	1182.63	0.032196	2.10	3.19	12.15	1.31
aguaarriba	720	Pr50	8.60	1181.99	1182.45	1182.52	1182.72	0.032520	2.26	3.81	13.06	1.34
aguaarriba	720	Pr100	10.80	1181.99	1182.50	1182.58	1182.80	0.032973	2.42	4.46	13.96	1.37
aguaarriba	720	Pr200	13.40	1181.99	1182.56	1182.65	1182.89	0.032972	2.57	5.22	14.91	1.39
aguaarriba	720	Pr500	17.26	1181.99	1182.62	1182.73	1183.01	0.032796	2.75	6.28	16.13	1.41

HEC-RAS Plan: plmx1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
aguaarriba	700	Pr25	6.70	1181.50	1182.05	1182.03	1182.18	0.014566	1.57	4.25	13.74	0.90
aguaarriba	700	Pr50	8.60	1181.50	1182.11	1182.09	1182.26	0.015227	1.71	5.03	14.83	0.94
aguaarriba	700	Pr100	10.80	1181.50	1182.16	1182.15	1182.34	0.015999	1.85	5.85	15.93	0.97
aguaarriba	700	Pr200	13.40	1181.50	1182.19	1182.22	1182.42	0.019803	2.11	6.34	16.56	1.09
aguaarriba	700	Pr500	17.26	1181.50	1182.30	1182.30	1182.52	0.016458	2.12	8.16	18.54	1.02
aguaarriba	680	Pr25	6.70	1181.18	1181.70	1181.70	1181.85	0.018933	1.70	3.95	13.88	1.02
aguaarriba	680	Pr50	8.60	1181.18	1181.76	1181.76	1181.92	0.018180	1.80	4.79	14.98	1.01
aguaarriba	680	Pr100	10.80	1181.18	1181.82	1181.82	1182.00	0.017447	1.89	5.72	16.12	1.01
aguaarriba	680	Pr200	13.40	1181.18	1181.88	1181.88	1182.08	0.016955	1.98	6.76	17.29	1.01
aguaarriba	680	Pr500	17.26	1181.18	1181.95	1181.97	1182.19	0.017265	2.14	8.07	18.68	1.04
aguaarriba	660	Pr25	6.70	1180.61	1181.07	1181.14	1181.32	0.038219	2.20	3.05	12.31	1.41
aguaarriba	660	Pr50	8.60	1180.61	1181.12	1181.20	1181.40	0.038318	2.37	3.63	13.14	1.44
aguaarriba	660	Pr100	10.80	1180.61	1181.16	1181.26	1181.49	0.038251	2.53	4.27	14.00	1.46
aguaarriba	660	Pr200	13.40	1180.61	1181.21	1181.32	1181.58	0.037693	2.67	5.01	14.93	1.47
aguaarriba	660	Pr500	17.26	1180.61	1181.29	1181.40	1181.69	0.035659	2.81	6.14	16.25	1.46
aguaarriba	640	Pr25	6.70	1179.86	1180.36	1180.42	1180.59	0.034103	2.15	3.12	11.98	1.34
aguaarriba	640	Pr50	8.60	1179.86	1180.41	1180.48	1180.68	0.033797	2.31	3.72	12.71	1.36
aguaarriba	640	Pr100	10.80	1179.86	1180.46	1180.54	1180.77	0.033547	2.47	4.38	13.46	1.38
aguaarriba	640	Pr200	13.40	1179.86	1180.51	1180.60	1180.86	0.033849	2.64	5.08	14.22	1.41
aguaarriba	640	Pr500	17.26	1179.86	1180.57	1180.69	1180.99	0.034438	2.86	6.04	15.20	1.45
aguaarriba	620	Pr25	6.70	1179.40	1179.84	1179.86	1180.03	0.022478	1.96	3.42	10.98	1.12
aguaarriba	620	Pr50	8.60	1179.40	1179.90	1179.93	1180.12	0.022265	2.10	4.09	11.75	1.14
aguaarriba	620	Pr100	10.80	1179.40	1179.96	1180.00	1180.21	0.022196	2.24	4.82	12.53	1.15
aguaarriba	620	Pr200	13.40	1179.40	1180.02	1180.07	1180.31	0.021471	2.35	5.69	13.41	1.15
aguaarriba	620	Pr500	17.26	1179.40	1180.11	1180.16	1180.43	0.021075	2.51	6.88	14.52	1.16
aguaarriba	600	Pr25	6.70	1178.64	1179.21	1179.28	1179.48	0.033382	2.33	2.88	9.62	1.36
aguaarriba	600	Pr50	8.60	1178.64	1179.27	1179.35	1179.58	0.032303	2.48	3.47	10.30	1.36
aguaarriba	600	Pr100	10.80	1178.64	1179.33	1179.42	1179.68	0.031585	2.62	4.12	10.98	1.37
aguaarriba	600	Pr200	13.40	1178.64	1179.39	1179.50	1179.78	0.030975	2.77	4.83	11.70	1.38

HEC-RAS Plan: plmx1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
aguaarriba	600	Pr500	17.26	1178.64	1179.48	1179.60	1179.92	0.029883	2.95	5.86	12.57	1.38
aguaarriba	580	Pr25	6.70	1178.33	1178.90	1178.83	1179.03	0.010313	1.59	4.23	10.35	0.79
aguaarriba	580	Pr50	8.60	1178.33	1178.98	1178.90	1179.13	0.010577	1.72	5.00	11.05	0.82
aguaarriba	580	Pr100	10.80	1178.33	1179.05	1178.98	1179.22	0.010885	1.85	5.83	11.76	0.84
aguaarriba	580	Pr200	13.40	1178.33	1179.12	1179.06	1179.32	0.011200	1.99	6.74	12.49	0.86
aguaarriba	580	Pr500	17.26	1178.33	1179.22	1179.16	1179.46	0.011637	2.16	7.98	13.41	0.89
aguaarriba	560	Pr25	6.70	1178.08	1178.66		1178.80	0.013082	1.67	4.02	10.93	0.88
aguaarriba	560	Pr50	8.60	1178.08	1178.72	1178.69	1178.89	0.013165	1.80	4.79	11.70	0.90
aguaarriba	560	Pr100	10.80	1178.08	1178.79	1178.76	1178.98	0.013265	1.92	5.61	12.45	0.91
aguaarriba	560	Pr200	13.40	1178.08	1178.86	1178.83	1179.08	0.013290	2.05	6.53	13.16	0.93
aguaarriba	560	Pr500	17.26	1178.08	1178.96	1178.93	1179.21	0.013292	2.21	7.82	14.09	0.95
aguaarriba	540	Pr25	6.70	1177.79	1178.43		1178.55	0.010969	1.52	4.42	12.18	0.80
aguaarriba	540	Pr50	8.60	1177.79	1178.49		1178.63	0.011578	1.67	5.16	12.87	0.84
aguaarriba	540	Pr100	10.80	1177.79	1178.55	1178.51	1178.72	0.012098	1.81	5.97	13.57	0.87
aguaarriba	540	Pr200	13.40	1177.79	1178.61	1178.58	1178.81	0.012942	1.97	6.79	14.25	0.91
aguaarriba	540	Pr500	17.26	1177.79	1178.69	1178.67	1178.93	0.014072	2.19	7.90	15.12	0.97
aguaarriba	520	Pr25	6.70	1177.56	1178.11	1178.11	1178.27	0.018446	1.77	3.79	12.28	1.02
aguaarriba	520	Pr50	8.60	1177.56	1178.17	1178.17	1178.35	0.017696	1.86	4.62	13.40	1.01
aguaarriba	520	Pr100	10.80	1177.56	1178.24	1178.24	1178.43	0.017159	1.96	5.50	14.40	1.01
aguaarriba	520	Pr200	13.40	1177.56	1178.30	1178.30	1178.52	0.016453	2.05	6.52	15.46	1.01
aguaarriba	520	Pr500	17.26	1177.56	1178.39	1178.39	1178.63	0.015881	2.18	7.91	16.69	1.01
aguaarriba	500	Pr25	6.70	1177.07	1177.46	1177.54	1177.73	0.039623	2.32	2.89	11.10	1.45
aguaarriba	500	Pr50	8.60	1177.07	1177.51	1177.60	1177.82	0.039681	2.49	3.46	11.93	1.47
aguaarriba	500	Pr100	10.80	1177.07	1177.56	1177.67	1177.92	0.039657	2.65	4.08	12.78	1.50
aguaarriba	500	Pr200	13.40	1177.07	1177.61	1177.73	1178.01	0.039668	2.81	4.77	13.66	1.52
aguaarriba	500	Pr500	17.26	1177.07	1177.68	1177.82	1178.14	0.039025	3.00	5.76	14.81	1.53
aguaarriba	480	Pr25	6.70	1176.48	1177.12	1177.12	1177.28	0.018297	1.80	3.72	11.66	1.02
aguaarriba	480	Pr50	8.60	1176.48	1177.18	1177.18	1177.37	0.017643	1.90	4.53	12.75	1.02
aguaarriba	480	Pr100	10.80	1176.48	1177.25	1177.25	1177.45	0.016938	1.98	5.44	13.87	1.01

HEC-RAS Plan: plmx1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
aguaarriba	480	Pr200	13.40	1176.48	1177.32	1177.32	1177.54	0.016513	2.08	6.44	15.01	1.01
aguaarriba	480	Pr500	17.26	1176.48	1177.41	1177.42	1177.66	0.015830	2.19	7.89	16.51	1.01
aguaarriba	460	Pr25	6.70	1175.99	1176.60	1176.65	1176.84	0.026447	2.17	3.09	9.57	1.22
aguaarriba	460	Pr50	8.60	1175.99	1176.66	1176.72	1176.93	0.026057	2.31	3.73	10.45	1.23
aguaarriba	460	Pr100	10.80	1175.99	1176.73	1176.80	1177.03	0.025713	2.43	4.44	11.34	1.24
aguaarriba	460	Pr200	13.40	1175.99	1176.80	1176.88	1177.13	0.025113	2.55	5.25	12.28	1.25
aguaarriba	460	Pr500	17.26	1175.99	1176.89	1176.97	1177.26	0.024311	2.69	6.41	13.52	1.25
aguaarriba	440	Pr25	6.70	1175.88	1176.49	1176.38	1176.59	0.008190	1.43	4.67	11.17	0.71
aguaarriba	440	Pr50	8.60	1175.88	1176.57	1176.45	1176.69	0.008028	1.53	5.63	12.04	0.71
aguaarriba	440	Pr100	10.80	1175.88	1176.65	1176.53	1176.79	0.008040	1.62	6.66	13.04	0.72
aguaarriba	440	Pr200	13.40	1175.88	1176.74	1176.61	1176.89	0.008078	1.72	7.81	14.12	0.74
aguaarriba	440	Pr500	17.26	1175.88	1176.84	1176.71	1177.02	0.008224	1.84	9.38	15.47	0.75
aguaarriba	420	Pr25	6.70	1175.32	1176.51		1176.53	0.000810	0.61	10.94	16.51	0.24
aguaarriba	420	Pr50	8.60	1175.32	1176.59		1176.62	0.000960	0.70	12.36	17.50	0.26
aguaarriba	420	Pr100	10.80	1175.32	1176.68		1176.71	0.001109	0.78	13.86	18.45	0.29
aguaarriba	420	Pr200	13.40	1175.32	1176.76		1176.80	0.001261	0.86	15.50	19.44	0.31
aguaarriba	420	Pr500	17.26	1175.32	1176.87		1176.92	0.001469	0.98	17.67	20.68	0.34
aguaarriba	404.74	Pr25	6.70	1175.60	1176.45		1176.50	0.003085	0.99	6.77	13.59	0.45
aguaarriba	404.74	Pr50	8.60	1175.60	1176.53		1176.59	0.003471	1.10	7.79	14.50	0.48
aguaarriba	404.74	Pr100	10.80	1175.60	1176.60		1176.67	0.003853	1.22	8.87	15.42	0.51
aguaarriba	404.74	Pr200	13.40	1175.60	1176.67		1176.76	0.004272	1.33	10.05	16.49	0.55
aguaarriba	404.74	Pr500	17.26	1175.60	1176.76		1176.88	0.004839	1.49	11.60	17.70	0.59
aguaarriba	376.1	Pr25	6.70	1175.77	1176.18	1176.18	1176.32	0.018980	1.64	4.08	15.09	1.01
aguaarriba	376.1	Pr50	8.60	1175.77	1176.23	1176.23	1176.39	0.018181	1.74	4.95	16.33	1.01
aguaarriba	376.1	Pr100	10.80	1175.77	1176.29	1176.29	1176.46	0.017556	1.83	5.91	17.59	1.01
aguaarriba	376.1	Pr200	13.40	1175.77	1176.35	1176.35	1176.54	0.017140	1.90	7.04	19.32	1.01
aguaarriba	376.1	Pr500	17.26	1175.77	1176.43	1176.43	1176.63	0.016745	1.99	8.69	21.99	1.01
aguaarriba	360	Pr25	6.70	1174.75	1175.23	1175.38	1175.72	0.081711	3.10	2.16	9.17	2.04
aguaarriba	360	Pr50	8.60	1174.75	1175.28	1175.45	1175.82	0.074945	3.25	2.65	9.82	2.00

HEC-RAS Plan: plmx1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
aguaarriba	360	Pr100	10.80	1174.75	1175.34	1175.52	1175.92	0.068605	3.37	3.20	10.50	1.95
aguaarriba	360	Pr200	13.40	1174.75	1175.40	1175.59	1176.02	0.062391	3.49	3.84	11.16	1.90
aguaarriba	360	Pr500	17.26	1174.75	1175.48	1175.69	1176.14	0.055511	3.60	4.80	12.20	1.83
aguaarriba	340	Pr25	6.70	1174.13	1174.69	1174.71	1174.91	0.020507	2.09	3.21	8.71	1.10
aguaarriba	340	Pr50	8.60	1174.13	1174.76	1174.79	1175.02	0.021092	2.27	3.79	9.25	1.13
aguaarriba	340	Pr100	10.80	1174.13	1174.82	1174.87	1175.13	0.021594	2.44	4.42	9.81	1.16
aguaarriba	340	Pr200	13.40	1174.13	1174.89	1174.96	1175.24	0.022102	2.62	5.11	10.39	1.19
aguaarriba	340	Pr500	17.26	1174.13	1174.98	1175.07	1175.39	0.022574	2.84	6.09	11.15	1.23
aguaarriba	320	Pr25	6.70	1173.44	1173.87	1174.00	1174.28	0.050534	2.83	2.37	8.01	1.66
aguaarriba	320	Pr50	8.60	1173.44	1173.94	1174.08	1174.39	0.047174	2.99	2.88	8.47	1.64
aguaarriba	320	Pr100	10.80	1173.44	1174.00	1174.15	1174.50	0.044544	3.15	3.43	8.95	1.62
aguaarriba	320	Pr200	13.40	1173.44	1174.07	1174.24	1174.62	0.042300	3.30	4.06	9.46	1.61
aguaarriba	320	Pr500	17.26	1173.44	1174.16	1174.35	1174.78	0.039922	3.49	4.94	10.14	1.60
aguaarriba	300	Pr25	6.70	1172.32	1172.95	1173.07	1173.34	0.043384	2.78	2.41	7.42	1.56
aguaarriba	300	Pr50	8.60	1172.32	1173.01	1173.15	1173.47	0.044991	3.01	2.85	8.02	1.61
aguaarriba	300	Pr100	10.80	1172.32	1173.07	1173.24	1173.60	0.046013	3.23	3.35	8.63	1.65
aguaarriba	300	Pr200	13.40	1172.32	1173.13	1173.32	1173.73	0.046899	3.43	3.90	9.31	1.69
aguaarriba	300	Pr500	17.26	1172.32	1173.21	1173.43	1173.90	0.048125	3.68	4.69	10.27	1.74
aguaarriba	280	Pr25	6.70	1171.59	1172.20	1172.29	1172.51	0.037451	2.47	2.71	9.00	1.44
aguaarriba	280	Pr50	8.60	1171.59	1172.26	1172.37	1172.62	0.037554	2.66	3.24	9.64	1.46
aguaarriba	280	Pr100	10.80	1171.59	1172.31	1172.44	1172.73	0.037960	2.84	3.80	10.29	1.49
aguaarriba	280	Pr200	13.40	1171.59	1172.37	1172.51	1172.84	0.038402	3.03	4.42	10.96	1.52
aguaarriba	280	Pr500	17.26	1171.59	1172.45	1172.62	1172.99	0.038793	3.26	5.29	11.84	1.56
aguaarriba	260	Pr25	6.70	1170.92	1171.62	1171.68	1171.90	0.025192	2.32	2.89	7.74	1.21
aguaarriba	260	Pr50	8.60	1170.92	1171.70	1171.76	1172.00	0.024527	2.46	3.49	8.40	1.22
aguaarriba	260	Pr100	10.80	1170.92	1171.77	1171.84	1172.12	0.023844	2.59	4.16	9.07	1.22
aguaarriba	260	Pr200	13.40	1170.92	1171.85	1171.93	1172.23	0.022946	2.72	4.93	9.70	1.22
aguaarriba	260	Pr500	17.26	1170.92	1171.96	1172.05	1172.38	0.022152	2.88	6.00	10.55	1.22
aguaarriba	240	Pr25	6.70	1169.89	1170.49	1170.67	1171.07	0.070570	3.39	1.97	6.49	1.96

HEC-RAS Plan: plmx1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
aguaarriba	240	Pr50	8.60	1169.89	1170.55	1170.76	1171.20	0.068641	3.57	2.41	7.16	1.97
aguaarriba	240	Pr100	10.80	1169.89	1170.61	1170.84	1171.33	0.066973	3.75	2.88	7.84	1.97
aguaarriba	240	Pr200	13.40	1169.89	1170.68	1170.93	1171.46	0.065678	3.93	3.41	8.53	1.98
aguaarriba	240	Pr500	17.26	1169.89	1170.76	1171.04	1171.64	0.063452	4.14	4.17	9.39	1.98
aguaarriba	220	Pr25	6.70	1169.29	1169.92	1169.97	1170.20	0.024943	2.35	2.85	7.45	1.21
aguaarriba	220	Pr50	8.60	1169.29	1169.99	1170.06	1170.31	0.025700	2.54	3.38	8.02	1.25
aguaarriba	220	Pr100	10.80	1169.29	1170.05	1170.15	1170.43	0.026380	2.73	3.96	8.60	1.28
aguaarriba	220	Pr200	13.40	1169.29	1170.13	1170.24	1170.56	0.026996	2.91	4.60	9.19	1.32
aguaarriba	220	Pr500	17.26	1169.29	1170.22	1170.36	1170.72	0.027596	3.14	5.49	9.97	1.35
aguaarriba	200	Pr25	6.70	1168.64	1169.09	1169.22	1169.51	0.048351	2.87	2.34	7.49	1.64
aguaarriba	200	Pr50	8.60	1168.64	1169.15	1169.30	1169.62	0.046373	3.04	2.83	8.04	1.64
aguaarriba	200	Pr100	10.80	1168.64	1169.21	1169.38	1169.74	0.045081	3.21	3.36	8.58	1.64
aguaarriba	200	Pr200	13.40	1168.64	1169.28	1169.47	1169.87	0.043896	3.38	3.96	9.18	1.64
aguaarriba	200	Pr500	17.26	1168.64	1169.37	1169.58	1170.03	0.042628	3.59	4.81	9.96	1.65
aguaarriba	180	Pr25	6.70	1168.23	1168.88	1168.86	1169.04	0.015300	1.78	3.77	10.46	0.95
aguaarriba	180	Pr50	8.60	1168.23	1168.94	1168.93	1169.14	0.015799	1.94	4.43	11.04	0.98
aguaarriba	180	Pr100	10.80	1168.23	1169.01	1169.01	1169.23	0.016355	2.10	5.13	11.63	1.01
aguaarriba	180	Pr200	13.40	1168.23	1169.08	1169.08	1169.33	0.015769	2.21	6.05	12.35	1.01
aguaarriba	180	Pr500	17.26	1168.23	1169.17	1169.19	1169.47	0.016640	2.43	7.12	13.18	1.05
aguaarriba	164.42	Pr25	6.70	1168.03	1168.61	1168.61	1168.79	0.017543	1.89	3.55	9.97	1.01
aguaarriba	164.42	Pr50	8.60	1168.03	1168.68	1168.68	1168.88	0.016826	2.00	4.30	10.75	1.01
aguaarriba	164.42	Pr100	10.80	1168.03	1168.75	1168.75	1168.98	0.016452	2.11	5.11	11.55	1.01
aguaarriba	164.42	Pr200	13.40	1168.03	1168.82	1168.83	1169.08	0.016820	2.26	5.93	12.31	1.04
aguaarriba	164.42	Pr500	17.26	1168.03	1168.92	1168.93	1169.21	0.015898	2.37	7.28	13.47	1.03
afluente	420	Pr25	1.00	1192.21	1192.41	1192.45	1192.55	0.064686	1.65	0.60	5.55	1.60
afluente	420	Pr50	1.30	1192.21	1192.43	1192.48	1192.59	0.064639	1.78	0.73	5.96	1.63
afluente	420	Pr100	1.60	1192.21	1192.45	1192.51	1192.63	0.064696	1.89	0.84	6.32	1.65
afluente	420	Pr200	2.00	1192.21	1192.47	1192.54	1192.68	0.064657	2.02	0.99	6.75	1.68
afluente	420	Pr500	2.64	1192.21	1192.50	1192.58	1192.75	0.064697	2.18	1.21	7.35	1.71

HEC-RAS Plan: plmx1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
afluente	400	Pr25	1.00	1190.66	1190.82	1190.86	1190.95	0.100901	1.63	0.61	8.04	1.89
afluente	400	Pr50	1.30	1190.66	1190.83	1190.88	1190.99	0.101729	1.79	0.73	8.32	1.94
afluente	400	Pr100	1.60	1190.66	1190.84	1190.90	1191.03	0.101755	1.92	0.83	8.57	1.97
afluente	400	Pr200	2.00	1190.66	1190.86	1190.92	1191.08	0.102049	2.08	0.96	8.87	2.01
afluente	400	Pr500	2.64	1190.66	1190.88	1190.96	1191.14	0.101842	2.27	1.16	9.31	2.06
afluente	380	Pr25	1.00	1188.97	1189.15	1189.19	1189.28	0.069953	1.61	0.62	6.28	1.64
afluente	380	Pr50	1.30	1188.97	1189.17	1189.22	1189.32	0.069429	1.73	0.75	6.78	1.66
afluente	380	Pr100	1.60	1188.97	1189.19	1189.24	1189.36	0.069310	1.84	0.87	7.15	1.69
afluente	380	Pr200	2.00	1188.97	1189.21	1189.27	1189.40	0.069113	1.96	1.02	7.60	1.71
afluente	380	Pr500	2.64	1188.97	1189.24	1189.31	1189.47	0.069314	2.13	1.24	8.22	1.75
afluente	360	Pr25	1.00	1188.06	1188.24	1188.26	1188.32	0.034260	1.19	0.84	7.87	1.16
afluente	360	Pr50	1.30	1188.06	1188.26	1188.28	1188.35	0.034810	1.28	1.01	8.57	1.19
afluente	360	Pr100	1.60	1188.06	1188.28	1188.30	1188.38	0.035200	1.36	1.18	9.18	1.21
afluente	360	Pr200	2.00	1188.06	1188.30	1188.33	1188.41	0.035675	1.45	1.38	9.89	1.24
afluente	360	Pr500	2.64	1188.06	1188.33	1188.36	1188.46	0.036287	1.58	1.67	10.71	1.27
afluente	340	Pr25	1.00	1185.99	1186.15	1186.26	1186.68	0.347814	3.22	0.31	3.69	3.55
afluente	340	Pr50	1.30	1185.99	1186.17	1186.29	1186.73	0.314517	3.31	0.39	4.15	3.44
afluente	340	Pr100	1.60	1185.99	1186.19	1186.32	1186.78	0.290969	3.39	0.47	4.55	3.36
afluente	340	Pr200	2.00	1185.99	1186.21	1186.35	1186.83	0.268080	3.48	0.58	5.03	3.28
afluente	340	Pr500	2.64	1185.99	1186.24	1186.39	1186.90	0.241841	3.59	0.74	5.69	3.18
afluente	320	Pr25	1.00	1184.56	1184.77	1184.78	1184.85	0.037458	1.30	0.77	6.76	1.23
afluente	320	Pr50	1.30	1184.56	1184.79	1184.81	1184.89	0.039046	1.42	0.91	7.23	1.28
afluente	320	Pr100	1.60	1184.56	1184.80	1184.83	1184.92	0.040408	1.53	1.04	7.55	1.32
afluente	320	Pr200	2.00	1184.56	1184.82	1184.86	1184.96	0.041948	1.66	1.20	7.92	1.36
afluente	320	Pr500	2.64	1184.56	1184.85	1184.90	1185.02	0.043973	1.84	1.44	8.45	1.42
afluente	300	Pr25	1.00	1183.52	1183.66	1183.70	1183.78	0.081229	1.59	0.63	7.31	1.73
afluente	300	Pr50	1.30	1183.52	1183.67	1183.72	1183.82	0.076909	1.68	0.77	7.89	1.72
afluente	300	Pr100	1.60	1183.52	1183.69	1183.74	1183.85	0.074022	1.76	0.91	8.41	1.71
afluente	300	Pr200	2.00	1183.52	1183.71	1183.76	1183.89	0.071129	1.86	1.07	8.87	1.71
afluente	300	Pr500	2.64	1183.52	1183.74	1183.80	1183.94	0.067793	2.00	1.32	9.46	1.71

HEC-RAS Plan: plmx1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
afluente	280	Pr25	1.00	1182.26	1182.40	1182.42	1182.48	0.052346	1.26	0.79	9.41	1.38
afluente	280	Pr50	1.30	1182.26	1182.42	1182.44	1182.51	0.054841	1.39	0.94	9.88	1.44
afluente	280	Pr100	1.60	1182.26	1182.43	1182.46	1182.54	0.056903	1.50	1.07	10.29	1.49
afluente	280	Pr200	2.00	1182.26	1182.44	1182.48	1182.58	0.059229	1.63	1.23	10.78	1.54
afluente	280	Pr500	2.64	1182.26	1182.46	1182.51	1182.63	0.062068	1.83	1.44	11.06	1.62
afluente	260	Pr25	1.00	1180.86	1181.14	1181.20	1181.33	0.062339	1.92	0.52	3.67	1.63
afluente	260	Pr50	1.30	1180.86	1181.18	1181.24	1181.38	0.057702	1.99	0.65	4.11	1.60
afluente	260	Pr100	1.60	1180.86	1181.21	1181.27	1181.42	0.054422	2.06	0.78	4.49	1.58
afluente	260	Pr200	2.00	1180.86	1181.24	1181.31	1181.47	0.051300	2.13	0.94	4.94	1.55
afluente	260	Pr500	2.64	1180.86	1181.29	1181.37	1181.54	0.048011	2.22	1.19	5.55	1.53
afluente	240	Pr25	1.00	1179.82	1180.03	1180.06	1180.14	0.054713	1.52	0.66	6.04	1.47
afluente	240	Pr50	1.30	1179.82	1180.04	1180.09	1180.19	0.059422	1.70	0.76	6.27	1.56
afluente	240	Pr100	1.60	1179.82	1180.06	1180.11	1180.23	0.063683	1.87	0.86	6.47	1.64
afluente	240	Pr200	2.00	1179.82	1180.08	1180.14	1180.29	0.068193	2.05	0.97	6.71	1.72
afluente	240	Pr500	2.64	1179.82	1180.10	1180.18	1180.37	0.072778	2.29	1.15	7.06	1.81
afluente	220	Pr25	1.00	1179.21	1179.35	1179.37	1179.43	0.050447	1.28	0.78	8.81	1.37
afluente	220	Pr50	1.30	1179.21	1179.38	1179.39	1179.46	0.036060	1.26	1.03	9.20	1.20
afluente	220	Pr100	1.60	1179.21	1179.40	1179.41	1179.48	0.027001	1.24	1.29	9.55	1.07
afluente	220	Pr200	2.00	1179.21	1179.43	1179.43	1179.51	0.023112	1.27	1.57	9.90	1.02
afluente	220	Pr500	2.64	1179.21	1179.46	1179.47	1179.56	0.023149	1.40	1.89	10.29	1.04
afluente	200	Pr25	1.00	1177.64	1178.31	1178.07	1178.33	0.001942	0.59	1.68	5.00	0.33
afluente	200	Pr50	1.30	1177.64	1178.35	1178.12	1178.38	0.002367	0.68	1.90	5.31	0.37
afluente	200	Pr100	1.60	1177.64	1178.39	1178.16	1178.42	0.002774	0.76	2.09	5.57	0.40
afluente	200	Pr200	2.00	1177.64	1178.43	1178.20	1178.47	0.003265	0.86	2.33	5.87	0.44
afluente	200	Pr500	2.64	1177.64	1178.10	1178.27	1178.67	0.101201	3.34	0.79	3.43	2.22
afluente	180	Pr25	1.00	1177.99	1178.17	1178.17	1178.23	0.024621	1.06	0.95	8.25	1.00
afluente	180	Pr50	1.30	1177.99	1178.20	1178.20	1178.26	0.024512	1.15	1.13	8.68	1.01
afluente	180	Pr100	1.60	1177.99	1178.22	1178.22	1178.29	0.023274	1.20	1.33	9.20	1.01
afluente	180	Pr200	2.00	1177.99	1178.25	1178.25	1178.33	0.022600	1.26	1.58	9.91	1.01

HEC-RAS Plan: plmx1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
afluente	180	Pr500	2.64	1177.99	1178.28	1178.28	1178.37	0.021645	1.36	1.94	10.48	1.01
afluente	160	Pr25	1.00	1176.71	1176.98	1177.08	1177.30	0.109969	2.49	0.40	2.93	2.15
afluente	160	Pr50	1.30	1176.71	1177.01	1177.12	1177.35	0.101651	2.58	0.50	3.28	2.10
afluente	160	Pr100	1.60	1176.71	1177.04	1177.15	1177.41	0.100307	2.70	0.59	3.56	2.12
afluente	160	Pr200	2.00	1176.71	1177.07	1177.19	1177.47	0.095378	2.81	0.71	3.90	2.10
afluente	160	Pr500	2.64	1176.71	1177.12	1177.25	1177.56	0.090173	2.95	0.90	4.36	2.08
afluente	140	Pr25	1.00	1175.94	1176.28	1176.28	1176.37	0.022845	1.32	0.76	4.41	1.02
afluente	140	Pr50	1.30	1175.94	1176.31	1176.32	1176.42	0.023903	1.44	0.91	4.82	1.06
afluente	140	Pr100	1.60	1175.94	1176.34	1176.35	1176.46	0.024513	1.52	1.05	5.20	1.08
afluente	140	Pr200	2.00	1175.94	1176.37	1176.39	1176.51	0.025476	1.63	1.23	5.64	1.12
afluente	140	Pr500	2.64	1175.94	1176.42	1176.45	1176.58	0.026782	1.78	1.48	6.23	1.16
afluente	120	Pr25	1.00	1174.35	1174.59	1174.74	1175.22	0.261479	3.52	0.28	2.35	3.23
afluente	120	Pr50	1.30	1174.35	1174.63	1174.78	1175.27	0.227423	3.57	0.36	2.66	3.08
afluente	120	Pr100	1.60	1174.35	1174.65	1174.82	1175.32	0.206141	3.62	0.44	2.93	2.98
afluente	120	Pr200	2.00	1174.35	1174.69	1174.86	1175.37	0.183906	3.67	0.55	3.26	2.86
afluente	120	Pr500	2.64	1174.35	1174.73	1174.92	1175.44	0.160343	3.74	0.71	3.71	2.73
afluente	100	Pr25	1.00	1173.26	1173.51	1173.52	1173.61	0.033735	1.42	0.71	5.00	1.20
afluente	100	Pr50	1.30	1173.26	1173.53	1173.56	1173.65	0.035674	1.56	0.83	5.30	1.26
afluente	100	Pr100	1.60	1173.26	1173.55	1173.59	1173.70	0.037253	1.69	0.95	5.56	1.30
afluente	100	Pr200	2.00	1173.26	1173.58	1173.62	1173.75	0.039211	1.83	1.09	5.86	1.36
afluente	100	Pr500	2.64	1173.26	1173.61	1173.67	1173.82	0.042094	2.04	1.30	6.27	1.43
afluente	80	Pr25	1.00	1171.97	1172.15	1172.24	1172.44	0.118918	2.37	0.42	3.54	2.19
afluente	80	Pr50	1.30	1171.97	1172.18	1172.27	1172.49	0.107062	2.45	0.53	3.91	2.13
afluente	80	Pr100	1.60	1171.97	1172.21	1172.31	1172.53	0.099042	2.52	0.63	4.24	2.08
afluente	80	Pr200	2.00	1171.97	1172.24	1172.34	1172.58	0.091610	2.60	0.77	4.63	2.03
afluente	80	Pr500	2.64	1171.97	1172.28	1172.40	1172.65	0.083680	2.70	0.98	5.17	1.99
afluente	60	Pr25	1.00	1170.55	1170.79	1170.83	1170.92	0.049856	1.61	0.62	4.87	1.44
afluente	60	Pr50	1.30	1170.55	1170.81	1170.86	1170.98	0.053406	1.79	0.73	5.11	1.52
afluente	60	Pr100	1.60	1170.55	1170.83	1170.89	1171.02	0.056576	1.95	0.82	5.32	1.58

HEC-RAS Plan: plmx1 (Continued)

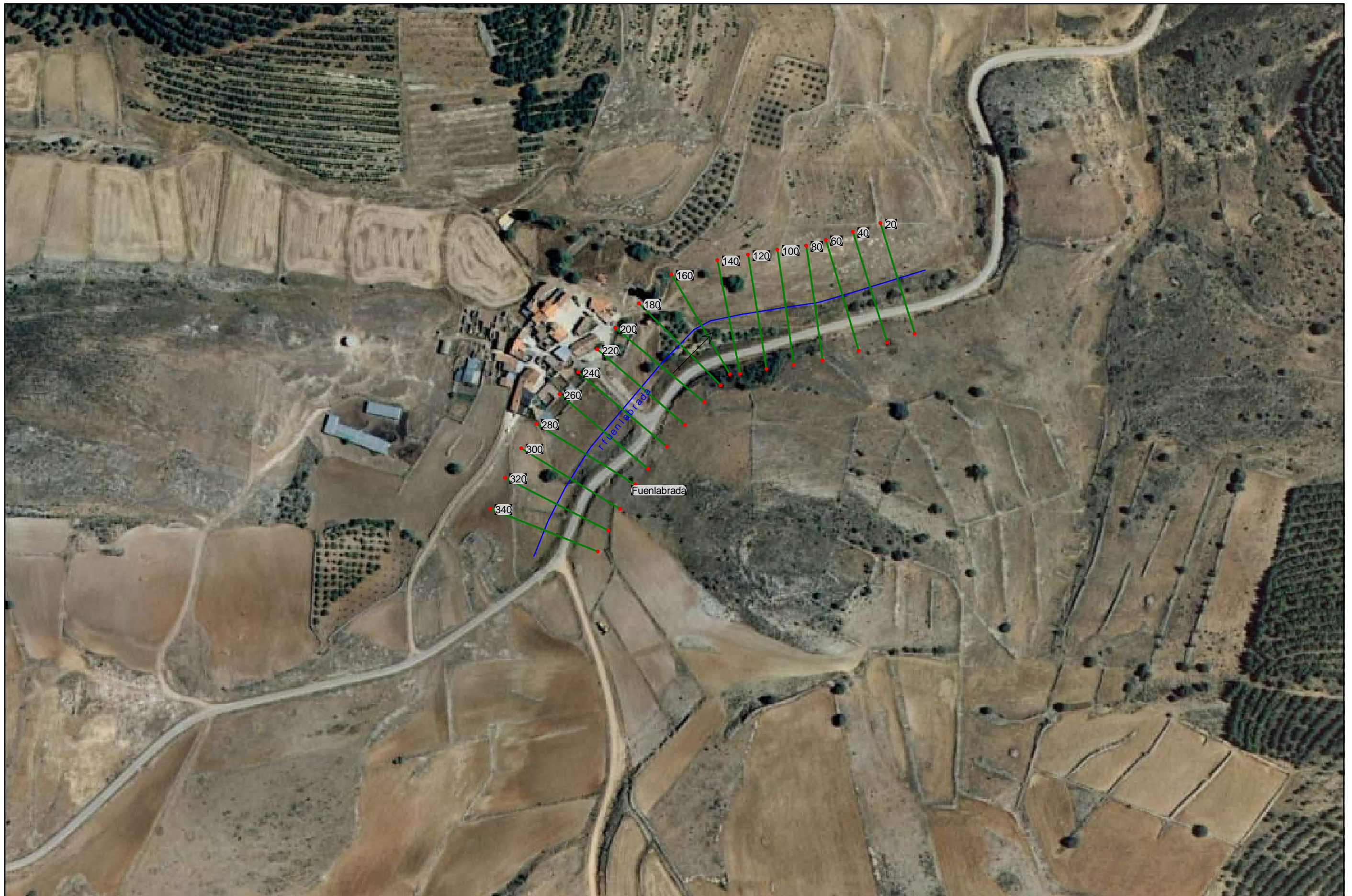
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
afluente	60	Pr200	2.00	1170.55	1170.85	1170.92	1171.08	0.059887	2.13	0.94	5.57	1.65
afluente	60	Pr500	2.64	1170.55	1170.88	1170.97	1171.17	0.063998	2.37	1.12	5.92	1.74
afluente	40	Pr25	1.00	1169.24	1169.58	1169.65	1169.81	0.061829	2.12	0.47	2.80	1.65
afluente	40	Pr50	1.30	1169.24	1169.62	1169.70	1169.87	0.056973	2.20	0.59	3.13	1.62
afluente	40	Pr100	1.60	1169.24	1169.65	1169.73	1169.92	0.053716	2.27	0.70	3.41	1.59
afluente	40	Pr200	2.00	1169.24	1169.69	1169.78	1169.98	0.051002	2.36	0.85	3.74	1.58
afluente	40	Pr500	2.64	1169.24	1169.75	1169.85	1170.06	0.048393	2.48	1.07	4.18	1.57
afluente	20	Pr25	1.00	1168.18	1168.41	1168.46	1168.56	0.060666	1.69	0.59	5.03	1.57
afluente	20	Pr50	1.30	1168.18	1168.43	1168.49	1168.61	0.066904	1.87	0.70	5.45	1.67
afluente	20	Pr100	1.60	1168.18	1168.45	1168.51	1168.66	0.072656	2.03	0.79	5.80	1.76
afluente	20	Pr200	2.00	1168.18	1168.47	1168.55	1168.72	0.078461	2.21	0.91	6.22	1.85
afluente	20	Pr500	2.64	1168.18	1168.49	1168.59	1168.80	0.085089	2.44	1.08	6.79	1.95
aguasabajo	120	Pr25	7.70	1167.62	1168.06	1168.18	1168.46	0.057389	2.82	2.73	10.26	1.75
aguasabajo	120	Pr50	9.90	1167.62	1168.11	1168.25	1168.57	0.054774	2.99	3.31	11.02	1.74
aguasabajo	120	Pr100	12.40	1167.62	1168.17	1168.33	1168.67	0.052387	3.14	3.95	11.79	1.73
aguasabajo	120	Pr200	15.40	1167.62	1168.23	1168.40	1168.77	0.049141	3.27	4.71	12.65	1.71
aguasabajo	120	Pr500	19.90	1167.62	1168.31	1168.50	1168.91	0.046839	3.45	5.77	13.79	1.70
aguasabajo	100	Pr25	7.70	1166.88	1167.45	1167.49	1167.67	0.025624	2.10	3.67	11.71	1.20
aguasabajo	100	Pr50	9.90	1166.88	1167.50	1167.56	1167.77	0.026798	2.27	4.35	12.77	1.24
aguasabajo	100	Pr100	12.40	1166.88	1167.55	1167.63	1167.86	0.027956	2.47	5.03	13.47	1.29
aguasabajo	100	Pr200	15.40	1166.88	1167.61	1167.70	1167.97	0.029237	2.68	5.75	14.08	1.34
aguasabajo	100	Pr500	19.90	1166.88	1167.68	1167.80	1168.12	0.030596	2.94	6.77	14.89	1.39
aguasabajo	80	Pr25	7.70	1166.11	1166.50	1166.62	1166.89	0.063145	2.76	2.79	11.69	1.80
aguasabajo	80	Pr50	9.90	1166.11	1166.55	1166.69	1166.98	0.059800	2.90	3.41	12.68	1.79
aguasabajo	80	Pr100	12.40	1166.11	1166.60	1166.75	1167.07	0.057086	3.04	4.07	13.63	1.78
aguasabajo	80	Pr200	15.40	1166.11	1166.65	1166.82	1167.17	0.055147	3.19	4.83	14.67	1.78
aguasabajo	80	Pr500	19.90	1166.11	1166.72	1166.91	1167.31	0.053791	3.39	5.88	16.04	1.79
aguasabajo	60	Pr25	7.70	1165.54	1166.15	1166.15	1166.32	0.017387	1.85	4.17	12.08	1.00
aguasabajo	60	Pr50	9.90	1165.54	1166.21	1166.21	1166.41	0.016978	1.96	5.05	13.14	1.01

HEC-RAS Plan: plmx1 (Continued)

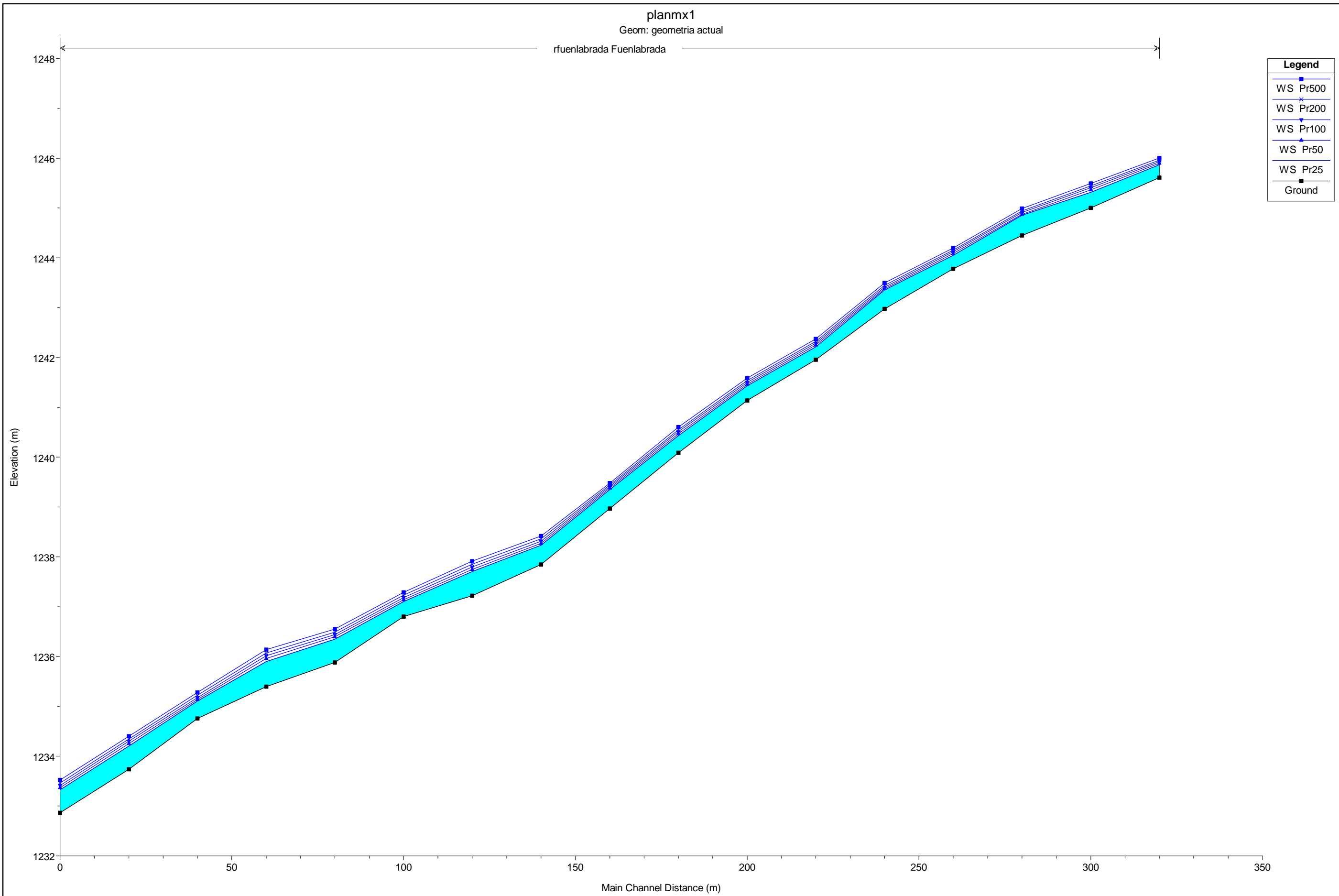
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
aguasabajo	60	Pr100	12.40	1165.54	1166.29	1166.29	1166.50	0.016468	2.06	6.02	14.21	1.01
aguasabajo	60	Pr200	15.40	1165.54	1166.36	1166.36	1166.60	0.015827	2.15	7.15	15.33	1.01
aguasabajo	60	Pr500	19.90	1165.54	1166.46	1166.46	1166.73	0.015406	2.28	8.71	16.75	1.01
aguasabajo	40	Pr25	7.70	1165.28	1165.75	1165.77	1165.93	0.021666	1.87	4.12	13.86	1.09
aguasabajo	40	Pr50	9.90	1165.28	1165.80	1165.84	1166.02	0.023108	2.05	4.83	14.87	1.15
aguasabajo	40	Pr100	12.40	1165.28	1165.85	1165.90	1166.10	0.024258	2.22	5.60	15.87	1.19
aguasabajo	40	Pr200	15.40	1165.28	1165.90	1165.97	1166.20	0.025623	2.40	6.42	16.82	1.24
aguasabajo	40	Pr500	19.90	1165.28	1165.97	1166.06	1166.32	0.026730	2.61	7.61	18.11	1.29
aguasabajo	20	Pr25	7.70	1164.94	1165.44	1165.44	1165.58	0.018344	1.69	4.57	15.84	1.00
aguasabajo	20	Pr50	9.90	1164.94	1165.49	1165.49	1165.66	0.018067	1.81	5.48	16.92	1.01
aguasabajo	20	Pr100	12.40	1164.94	1165.55	1165.55	1165.74	0.017496	1.91	6.49	17.98	1.02
aguasabajo	20	Pr200	15.40	1164.94	1165.62	1165.62	1165.82	0.016599	2.00	7.71	19.23	1.01
aguasabajo	20	Pr500	19.90	1164.94	1165.70	1165.70	1165.93	0.016121	2.13	9.36	20.79	1.01

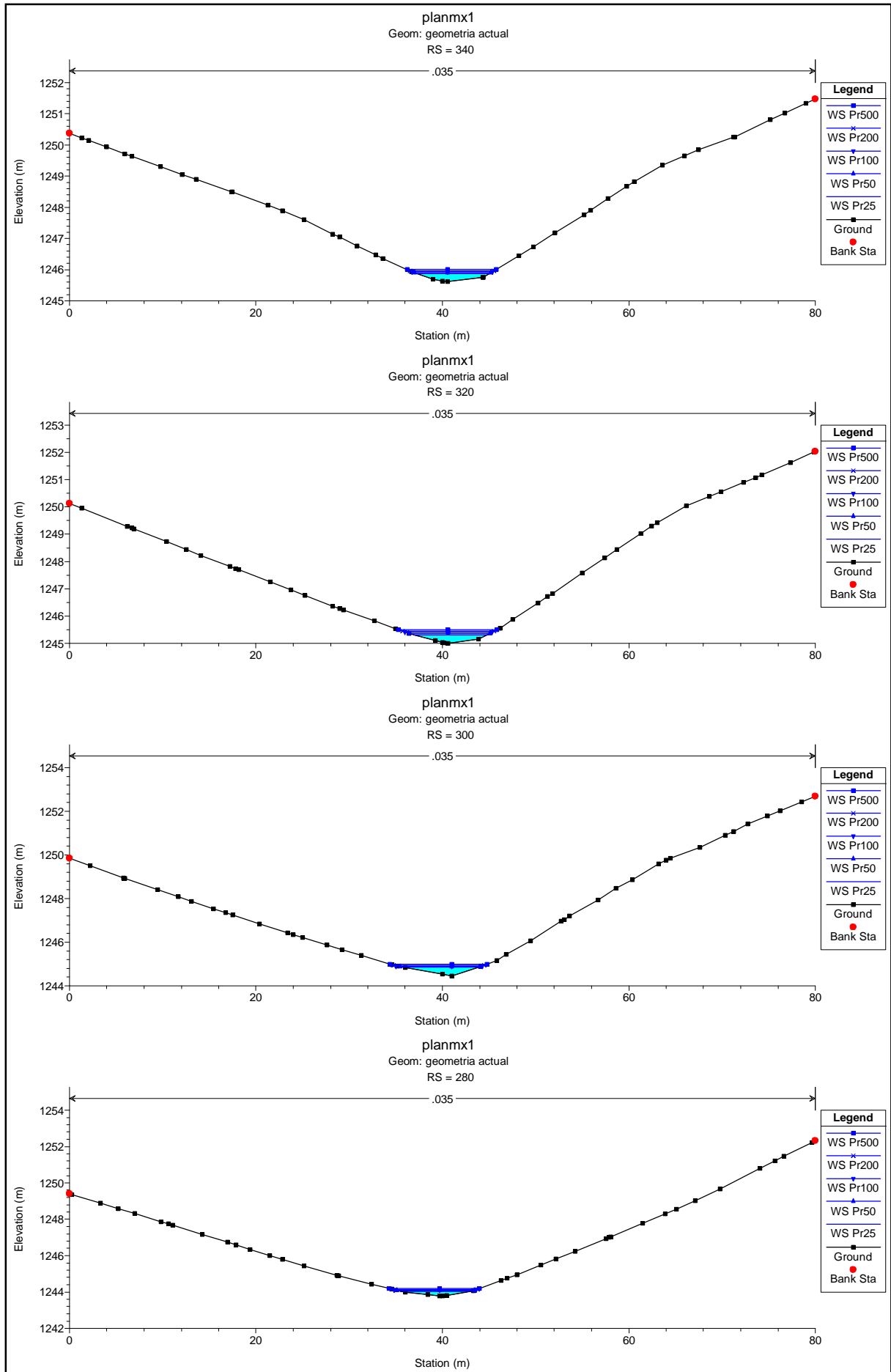
ANEXO 2. LISTADOS RESULTADOS HIDRÁULICOS. HEC-RAS

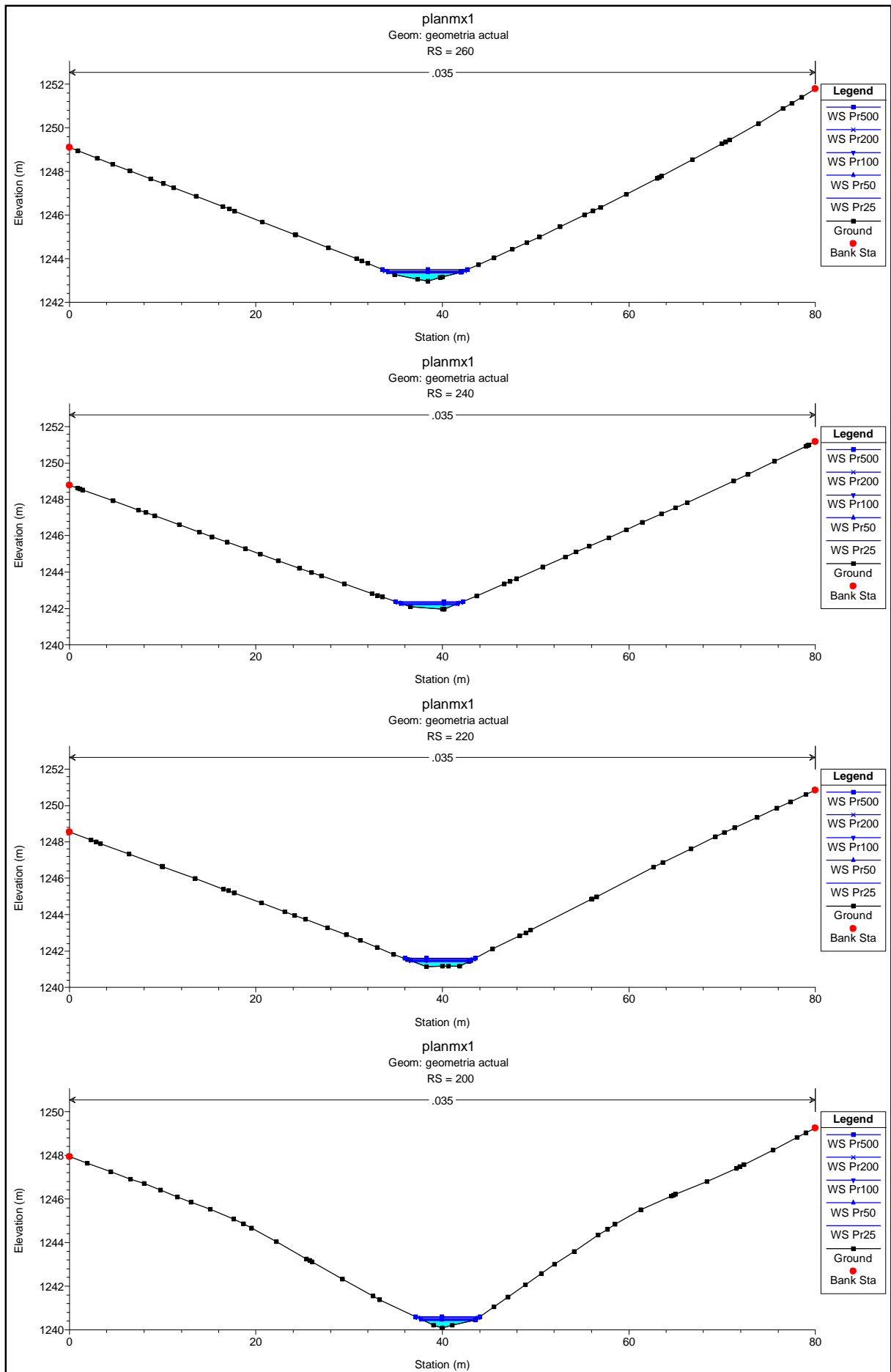
- **FUENLABRADA**

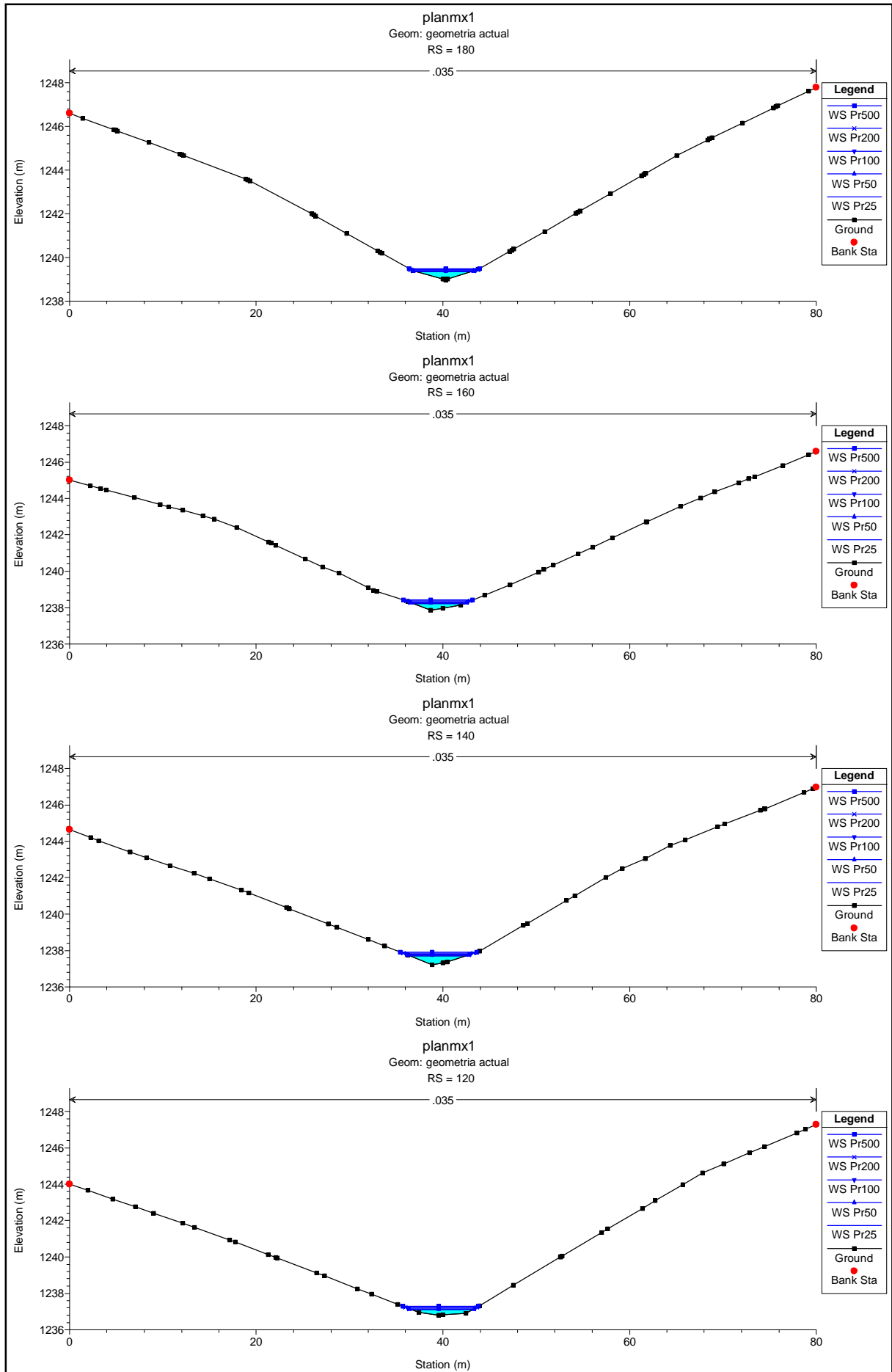


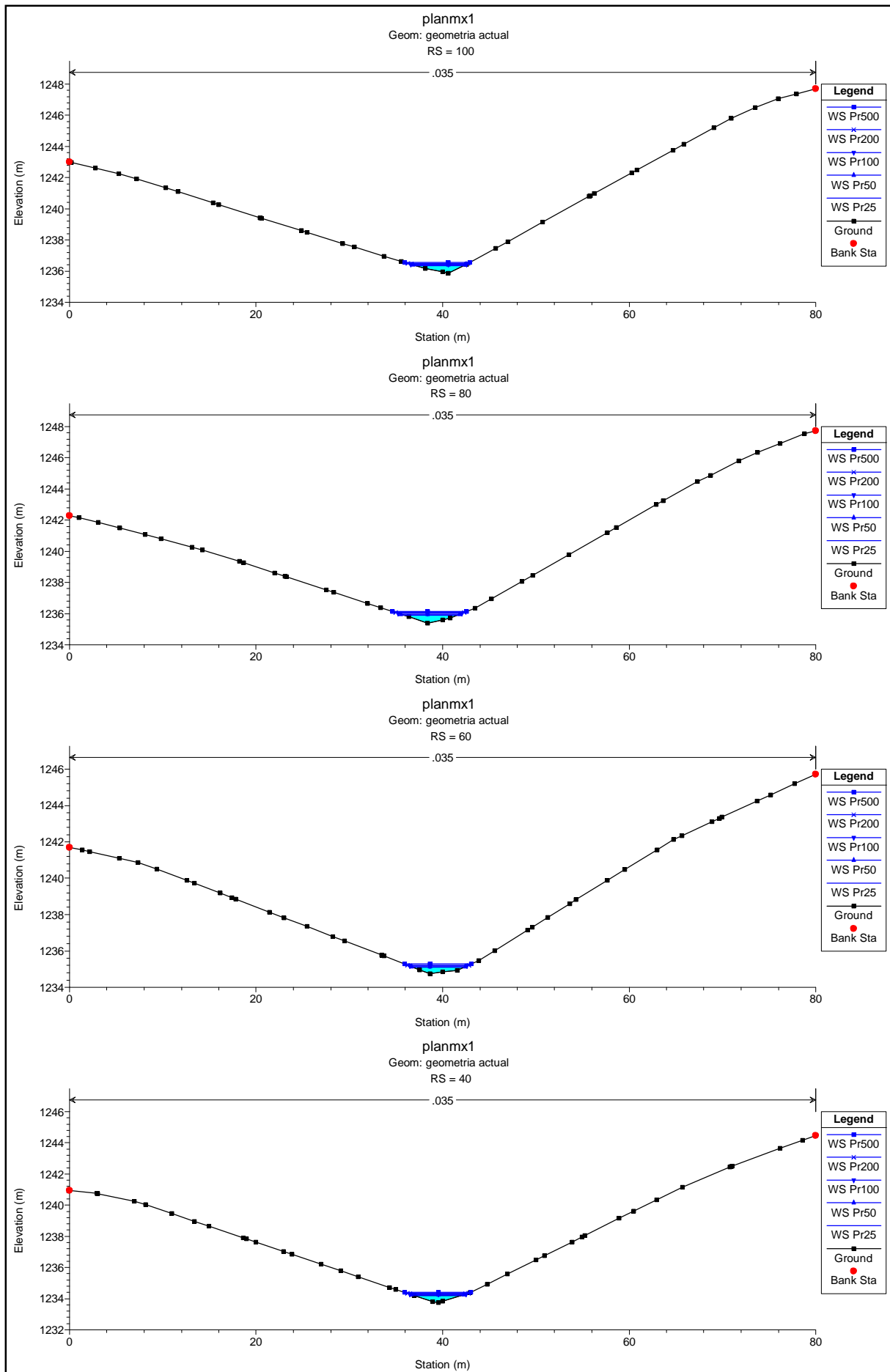
1 cm Horiz. = 25 m 1 cm Vert. = 25 m

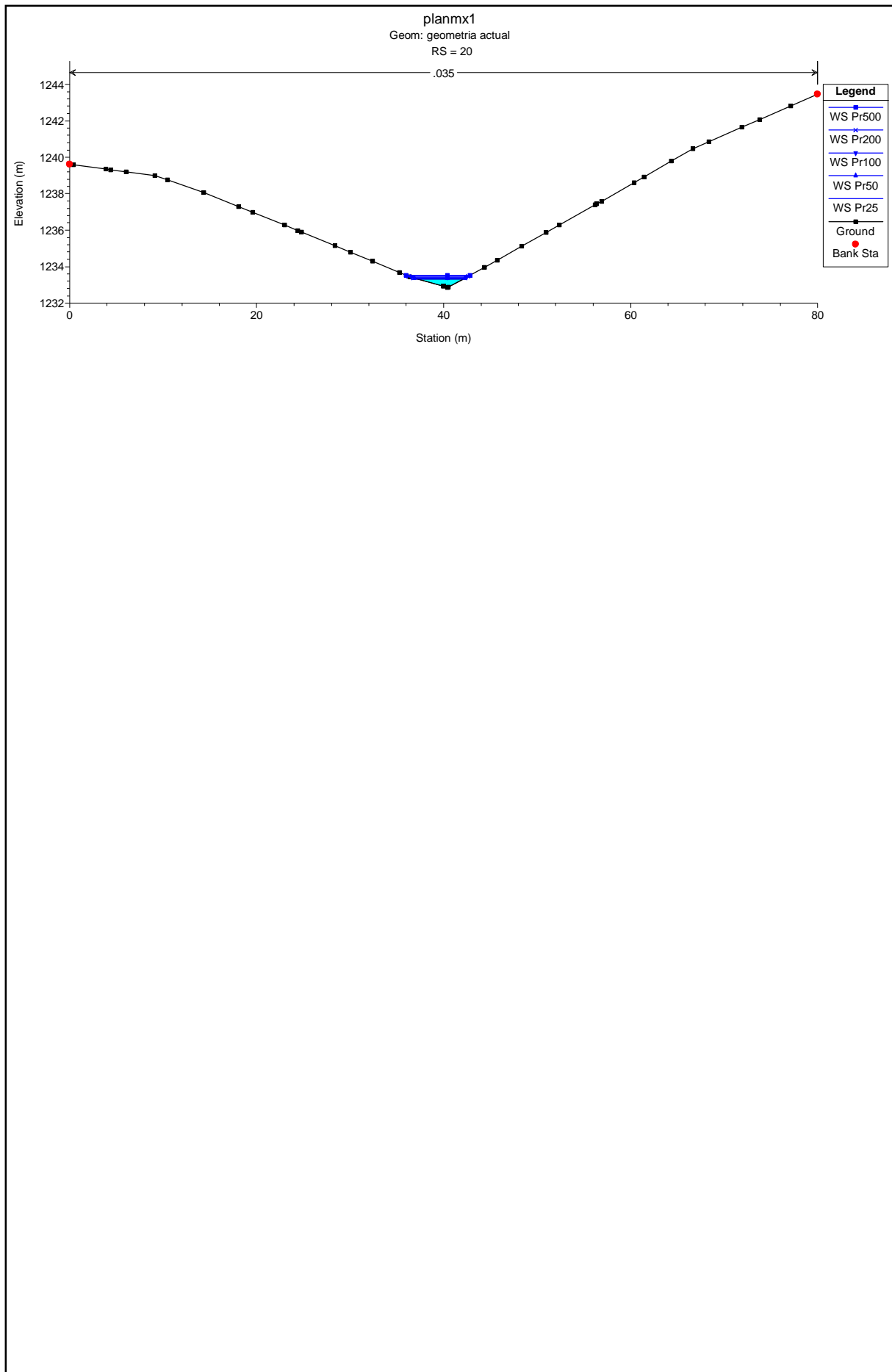












HEC-RAS Plan: plmx1 River: rfuenlabrada Reach: Fuenlabrada

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Fuenlabrada	340	Pr25	2.30	1245.61	1245.87	1245.92	1246.04	0.046023	1.82	1.26	7.74	1.44
Fuenlabrada	340	Pr50	2.90	1245.61	1245.90	1245.95	1246.09	0.046022	1.96	1.48	8.15	1.47
Fuenlabrada	340	Pr100	3.70	1245.61	1245.93	1246.00	1246.16	0.046060	2.11	1.75	8.63	1.50
Fuenlabrada	340	Pr200	4.50	1245.61	1245.96	1246.03	1246.22	0.046050	2.25	2.00	9.01	1.52
Fuenlabrada	340	Pr500	5.85	1245.61	1246.00	1246.09	1246.30	0.046022	2.43	2.40	9.55	1.55
Fuenlabrada	320	Pr25	2.30	1245.00	1245.32	1245.33	1245.44	0.026539	1.53	1.50	7.97	1.12
Fuenlabrada	320	Pr50	2.90	1245.00	1245.37	1245.37	1245.48	0.021693	1.52	1.91	8.75	1.04
Fuenlabrada	320	Pr100	3.70	1245.00	1245.41	1245.41	1245.54	0.020406	1.60	2.31	9.36	1.03
Fuenlabrada	320	Pr200	4.50	1245.00	1245.45	1245.45	1245.59	0.020575	1.70	2.65	9.84	1.05
Fuenlabrada	320	Pr500	5.85	1245.00	1245.50	1245.51	1245.67	0.020835	1.84	3.17	10.56	1.07
Fuenlabrada	300	Pr25	2.30	1244.45	1244.85	1244.85	1244.96	0.021421	1.43	1.61	8.01	1.02
Fuenlabrada	300	Pr50	2.90	1244.45	1244.88	1244.89	1245.01	0.025998	1.62	1.79	8.55	1.13
Fuenlabrada	300	Pr100	3.70	1244.45	1244.91	1244.94	1245.07	0.027642	1.76	2.10	9.24	1.18
Fuenlabrada	300	Pr200	4.50	1244.45	1244.94	1244.97	1245.12	0.027409	1.86	2.41	9.70	1.19
Fuenlabrada	300	Pr500	5.85	1244.45	1244.99	1245.03	1245.20	0.026978	2.00	2.92	10.41	1.21
Fuenlabrada	280	Pr25	2.30	1243.78	1244.05	1244.11	1244.26	0.063716	2.02	1.14	7.67	1.67
Fuenlabrada	280	Pr50	2.90	1243.78	1244.09	1244.15	1244.29	0.050764	2.00	1.45	8.29	1.53
Fuenlabrada	280	Pr100	3.70	1243.78	1244.12	1244.19	1244.35	0.046901	2.11	1.75	8.79	1.51
Fuenlabrada	280	Pr200	4.50	1243.78	1244.15	1244.23	1244.41	0.046794	2.24	2.01	9.18	1.53
Fuenlabrada	280	Pr500	5.85	1243.78	1244.20	1244.29	1244.49	0.046311	2.42	2.42	9.74	1.55
Fuenlabrada	260	Pr25	2.30	1242.98	1243.36	1243.37	1243.48	0.024954	1.54	1.49	7.45	1.10
Fuenlabrada	260	Pr50	2.90	1242.98	1243.38	1243.41	1243.53	0.028573	1.73	1.68	7.78	1.19
Fuenlabrada	260	Pr100	3.70	1242.98	1243.41	1243.45	1243.60	0.030058	1.90	1.95	8.15	1.24
Fuenlabrada	260	Pr200	4.50	1242.98	1243.45	1243.49	1243.65	0.030058	2.02	2.23	8.52	1.26
Fuenlabrada	260	Pr500	5.85	1242.98	1243.50	1243.55	1243.74	0.030045	2.18	2.68	9.08	1.28
Fuenlabrada	240	Pr25	2.30	1241.96	1242.21	1242.32	1242.57	0.099889	2.64	0.87	5.50	2.11
Fuenlabrada	240	Pr50	2.90	1241.96	1242.25	1242.36	1242.61	0.081961	2.65	1.10	5.91	1.96
Fuenlabrada	240	Pr100	3.70	1241.96	1242.29	1242.41	1242.68	0.074428	2.75	1.34	6.34	1.91
Fuenlabrada	240	Pr200	4.50	1241.96	1242.32	1242.46	1242.75	0.071590	2.88	1.56	6.69	1.90
Fuenlabrada	240	Pr500	5.85	1241.96	1242.38	1242.52	1242.85	0.067963	3.05	1.92	7.23	1.89

HEC-RAS Plan: plmx1 River: rfuenlabrada Reach: Fuenlabrada (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Fuenlabrada	220	Pr25	2.30	1241.14	1241.43	1241.46	1241.58	0.026636	1.70	1.36	6.13	1.15
Fuenlabrada	220	Pr50	2.90	1241.14	1241.46	1241.50	1241.64	0.029052	1.88	1.55	6.39	1.22
Fuenlabrada	220	Pr100	3.70	1241.14	1241.50	1241.55	1241.72	0.030671	2.06	1.80	6.72	1.27
Fuenlabrada	220	Pr200	4.50	1241.14	1241.54	1241.60	1241.78	0.031535	2.21	2.04	7.04	1.31
Fuenlabrada	220	Pr500	5.85	1241.14	1241.59	1241.67	1241.89	0.032695	2.41	2.43	7.52	1.35
Fuenlabrada	200	Pr25	2.30	1240.09	1240.43	1240.53	1240.73	0.073678	2.42	0.95	5.43	1.84
Fuenlabrada	200	Pr50	2.90	1240.09	1240.47	1240.57	1240.79	0.065727	2.49	1.16	5.81	1.78
Fuenlabrada	200	Pr100	3.70	1240.09	1240.51	1240.62	1240.86	0.060695	2.62	1.41	6.15	1.75
Fuenlabrada	200	Pr200	4.50	1240.09	1240.55	1240.67	1240.93	0.057997	2.74	1.64	6.46	1.73
Fuenlabrada	200	Pr500	5.85	1240.09	1240.60	1240.74	1241.04	0.055026	2.92	2.01	6.91	1.73
Fuenlabrada	180	Pr25	2.30	1238.97	1239.35	1239.41	1239.56	0.045741	2.01	1.14	6.01	1.47
Fuenlabrada	180	Pr50	2.90	1238.97	1239.38	1239.46	1239.63	0.049767	2.20	1.32	6.45	1.55
Fuenlabrada	180	Pr100	3.70	1238.97	1239.41	1239.50	1239.71	0.053326	2.42	1.53	6.85	1.63
Fuenlabrada	180	Pr200	4.50	1238.97	1239.44	1239.55	1239.79	0.055622	2.60	1.73	7.18	1.69
Fuenlabrada	180	Pr500	5.85	1238.97	1239.48	1239.61	1239.90	0.058168	2.86	2.04	7.57	1.76
Fuenlabrada	160	Pr25	2.70	1237.85	1238.23	1238.32	1238.52	0.057582	2.37	1.14	5.54	1.67
Fuenlabrada	160	Pr50	3.40	1237.85	1238.27	1238.37	1238.58	0.053551	2.47	1.38	5.94	1.64
Fuenlabrada	160	Pr100	4.26	1237.85	1238.32	1238.42	1238.66	0.051239	2.60	1.64	6.36	1.63
Fuenlabrada	160	Pr200	5.30	1237.85	1238.36	1238.48	1238.74	0.049348	2.72	1.95	6.84	1.63
Fuenlabrada	160	Pr500	6.77	1237.85	1238.42	1238.55	1238.84	0.048788	2.89	2.34	7.44	1.65
Fuenlabrada	140	Pr25	2.70	1237.22	1237.71	1237.71	1237.85	0.019738	1.66	1.62	6.00	1.02
Fuenlabrada	140	Pr50	3.40	1237.22	1237.75	1237.76	1237.92	0.020548	1.79	1.90	6.46	1.06
Fuenlabrada	140	Pr100	4.26	1237.22	1237.80	1237.82	1237.99	0.021167	1.92	2.22	6.97	1.09
Fuenlabrada	140	Pr200	5.30	1237.22	1237.85	1237.88	1238.07	0.021763	2.05	2.59	7.51	1.12
Fuenlabrada	140	Pr500	6.77	1237.22	1237.91	1237.95	1238.16	0.022149	2.20	3.08	8.18	1.14
Fuenlabrada	120	Pr25	2.70	1236.80	1237.11	1237.16	1237.30	0.038909	1.97	1.37	6.56	1.38
Fuenlabrada	120	Pr50	3.40	1236.80	1237.14	1237.20	1237.37	0.037307	2.09	1.62	6.88	1.38
Fuenlabrada	120	Pr100	4.26	1236.80	1237.19	1237.25	1237.44	0.036091	2.22	1.92	7.23	1.38
Fuenlabrada	120	Pr200	5.30	1236.80	1237.23	1237.31	1237.51	0.034935	2.35	2.25	7.61	1.38

HEC-RAS Plan: plmx1 River: rfuenlabrada Reach: Fuenlabrada (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Fuenlabrada	120	Pr500	6.77	1236.80	1237.29	1237.37	1237.61	0.033862	2.51	2.70	8.09	1.39
Fuenlabrada	100	Pr25	2.70	1235.88	1236.35	1236.41	1236.57	0.034449	2.08	1.30	5.19	1.33
Fuenlabrada	100	Pr50	3.40	1235.88	1236.40	1236.46	1236.64	0.034598	2.21	1.54	5.60	1.35
Fuenlabrada	100	Pr100	4.26	1235.88	1236.44	1236.52	1236.72	0.034880	2.36	1.81	6.03	1.38
Fuenlabrada	100	Pr200	5.30	1235.88	1236.49	1236.58	1236.81	0.034892	2.50	2.12	6.47	1.40
Fuenlabrada	100	Pr500	6.77	1235.88	1236.55	1236.66	1236.92	0.034791	2.67	2.54	7.02	1.42
Fuenlabrada	80	Pr25	2.70	1235.40	1235.90	1235.91	1236.06	0.022248	1.75	1.54	5.73	1.08
Fuenlabrada	80	Pr50	3.40	1235.40	1235.96	1235.97	1236.12	0.019500	1.78	1.91	6.31	1.03
Fuenlabrada	80	Pr100	4.26	1235.40	1236.02	1236.02	1236.20	0.018591	1.86	2.29	6.85	1.02
Fuenlabrada	80	Pr200	5.30	1235.40	1236.07	1236.08	1236.27	0.018846	1.98	2.68	7.36	1.05
Fuenlabrada	80	Pr500	6.77	1235.40	1236.14	1236.16	1236.37	0.019231	2.12	3.19	7.98	1.07
Fuenlabrada	60	Pr25	2.70	1234.76	1235.11	1235.19	1235.39	0.053842	2.33	1.16	5.51	1.62
Fuenlabrada	60	Pr50	3.40	1234.76	1235.14	1235.24	1235.48	0.059346	2.58	1.32	5.77	1.72
Fuenlabrada	60	Pr100	4.26	1234.76	1235.18	1235.30	1235.56	0.059400	2.76	1.55	6.13	1.75
Fuenlabrada	60	Pr200	5.30	1234.76	1235.22	1235.36	1235.65	0.056430	2.88	1.84	6.56	1.74
Fuenlabrada	60	Pr500	6.77	1234.76	1235.28	1235.43	1235.75	0.053191	3.02	2.24	7.11	1.72
Fuenlabrada	40	Pr25	2.70	1233.74	1234.21	1234.28	1234.45	0.040117	2.20	1.23	5.07	1.43
Fuenlabrada	40	Pr50	3.40	1233.74	1234.26	1234.33	1234.52	0.037738	2.28	1.49	5.59	1.41
Fuenlabrada	40	Pr100	4.26	1233.74	1234.30	1234.39	1234.60	0.037877	2.41	1.77	6.07	1.43
Fuenlabrada	40	Pr200	5.30	1233.74	1234.35	1234.45	1234.69	0.039157	2.58	2.05	6.55	1.47
Fuenlabrada	40	Pr500	6.77	1233.74	1234.40	1234.52	1234.80	0.040560	2.79	2.43	7.08	1.52
Fuenlabrada	20	Pr25	2.70	1232.86	1233.33	1233.41	1233.60	0.045517	2.30	1.17	4.97	1.51
Fuenlabrada	20	Pr50	3.40	1232.86	1233.37	1233.46	1233.68	0.046747	2.46	1.38	5.39	1.55
Fuenlabrada	20	Pr100	4.26	1232.86	1233.42	1233.52	1233.76	0.046351	2.59	1.64	5.88	1.57
Fuenlabrada	20	Pr200	5.30	1232.86	1233.47	1233.58	1233.84	0.045237	2.73	1.94	6.34	1.57
Fuenlabrada	20	Pr500	6.77	1232.86	1233.52	1233.66	1233.95	0.044163	2.90	2.34	6.84	1.58