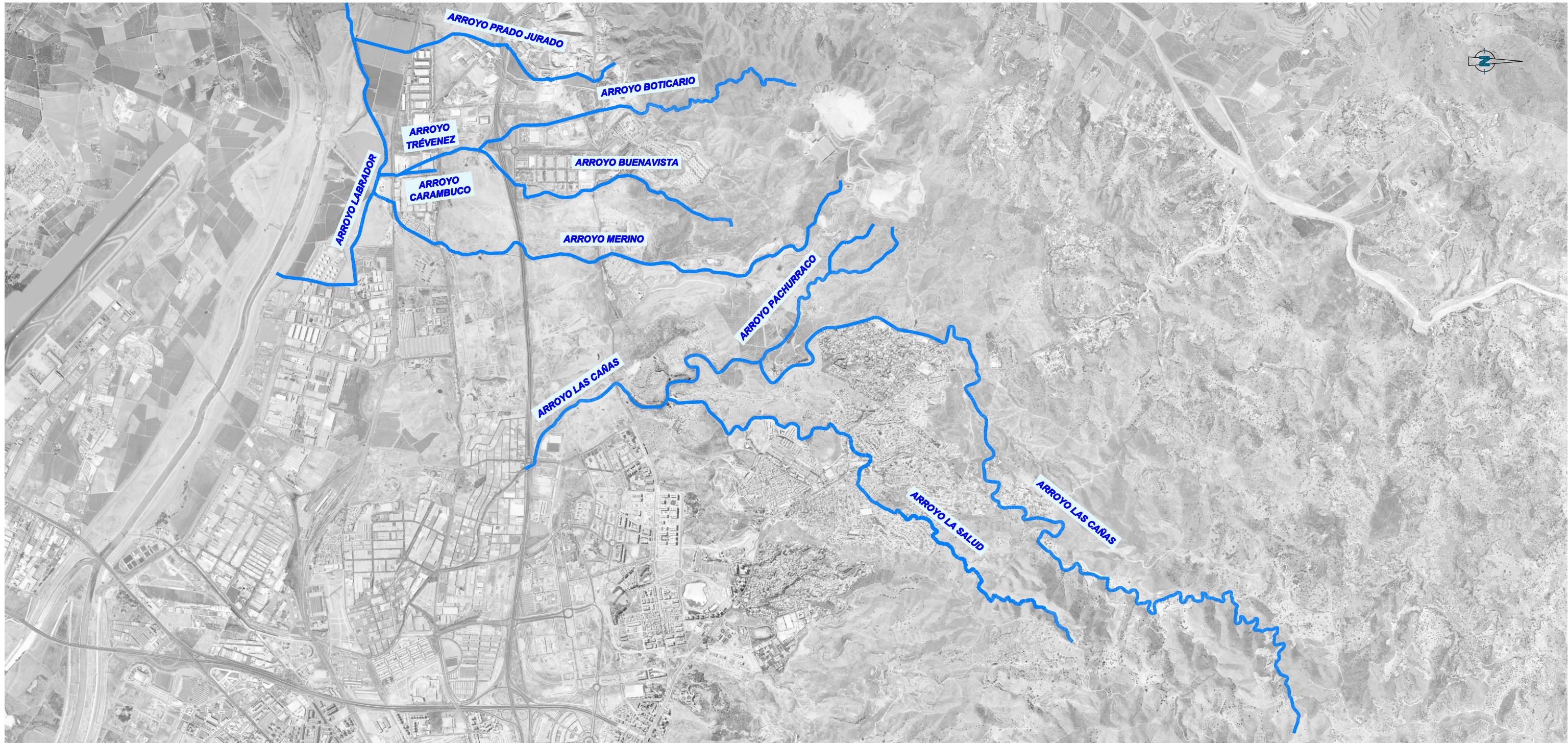


DETERMINACIÓN DE LOS LIMITES DEL DOMINIO PÚBLICO HIDRÁULICO Y LAS ZONAS INUNDABLES EN LAS CUENCAS DEL ARROYO CAÑAS Y ZONA TRÉVENEZ - BUENAVISTA, EN LOS DESARROLLOS PREVISTOS POR EL PGOU EN REVISIÓN.



Ayuntamiento de Málaga

Gerencia Municipal de Urbanismo, Obras e Infraestructuras



EL CONSULTOR:



NARVAL Ingeniería, S.A.
Ingeniería civil, Urbanismo, Medio Ambiente

ISO 9001
ISO 14001

BUREAU VERITAS
Certification



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RAFAEL GALLEGU LÓPEZ
Ingeniero Caminos, Canales y Puertos

TOMO II DE II

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FEBRERO 2008

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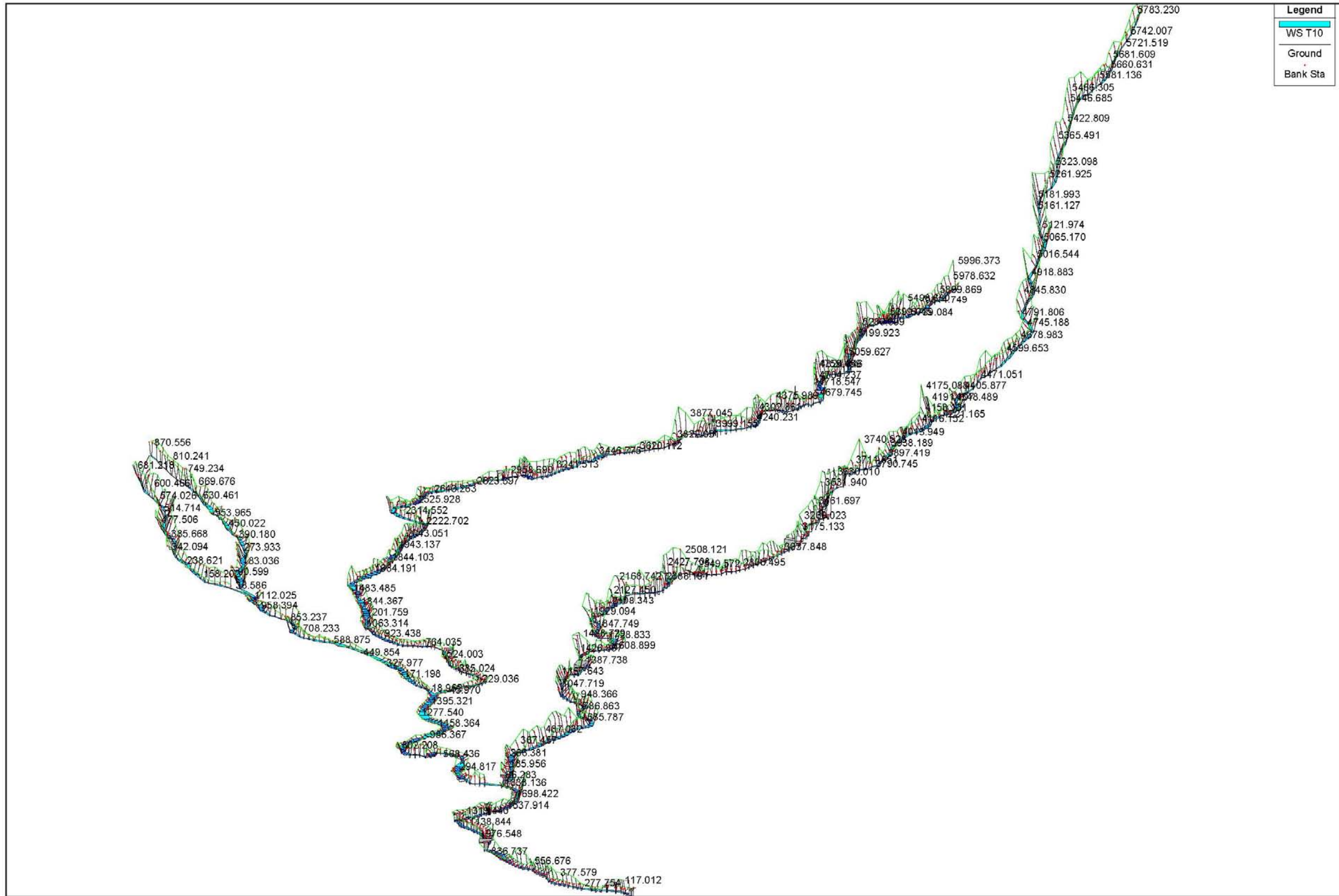
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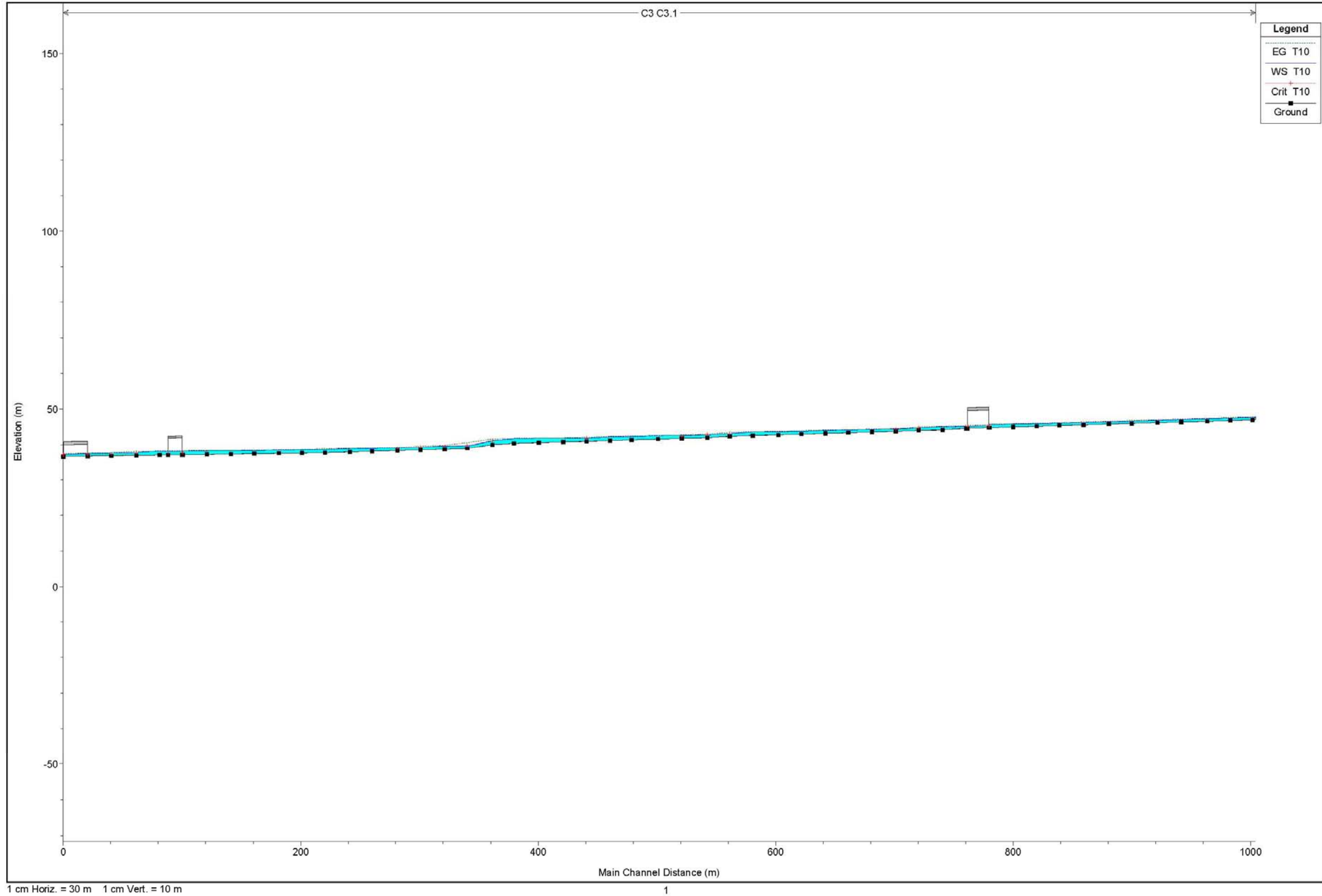
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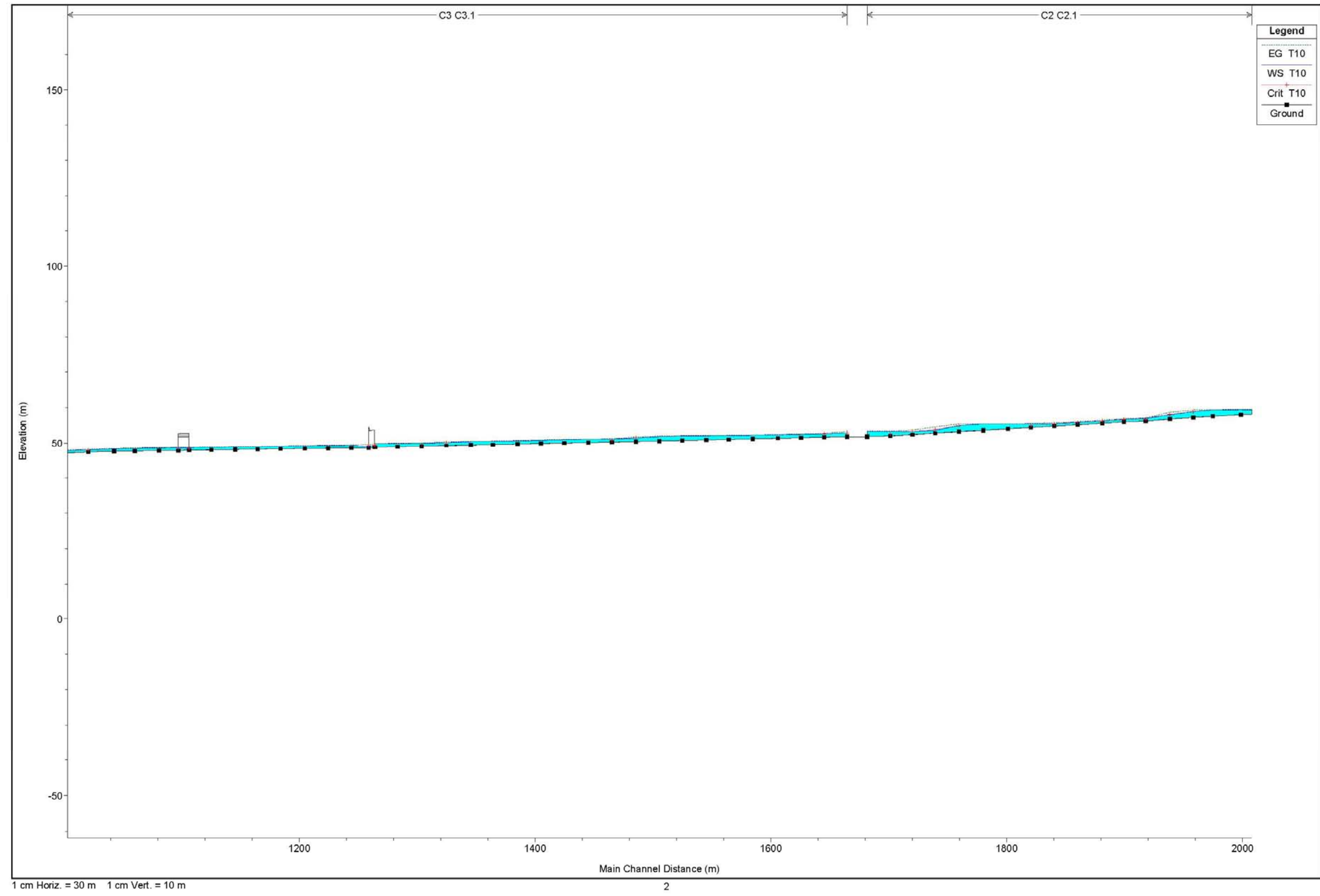
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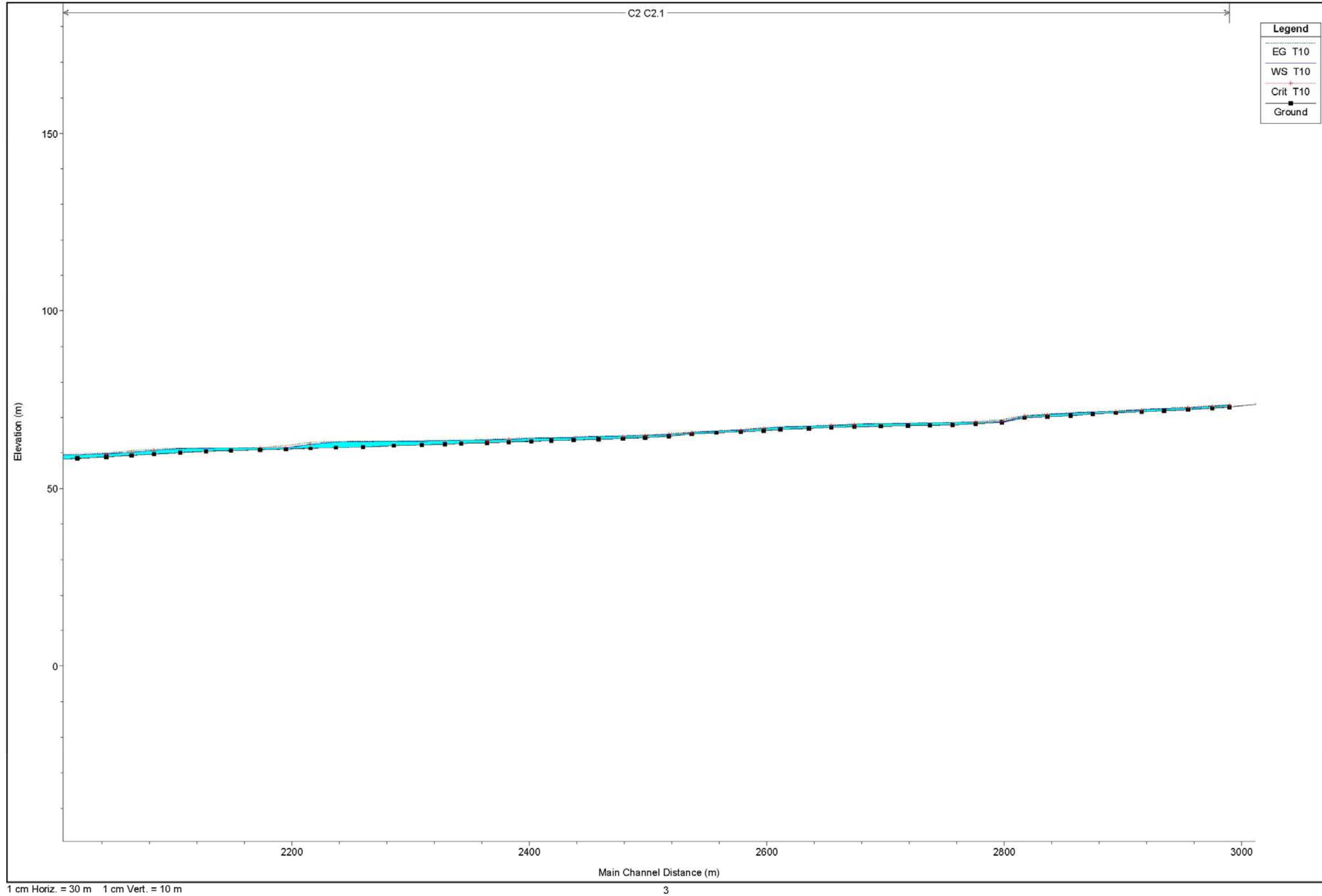
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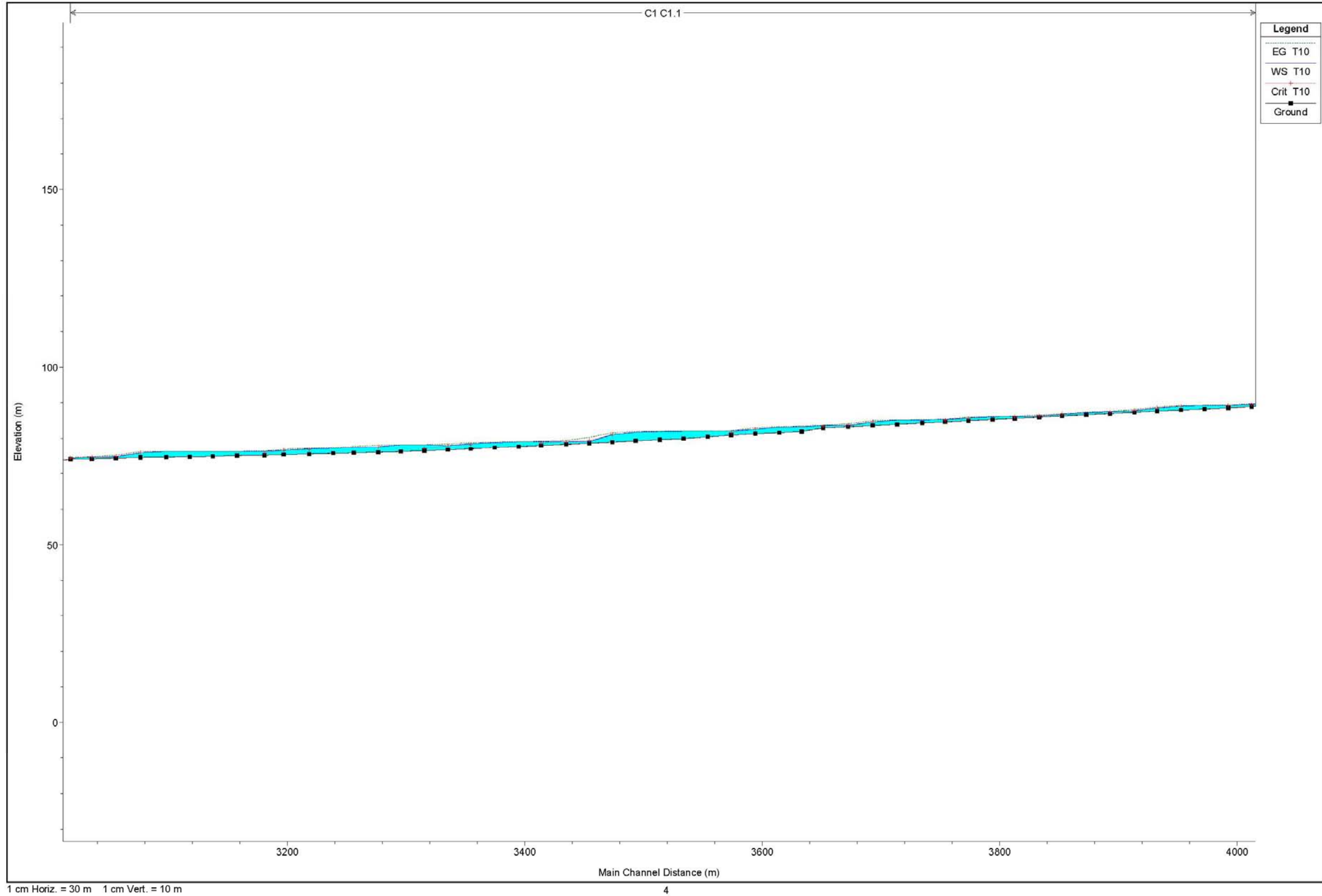
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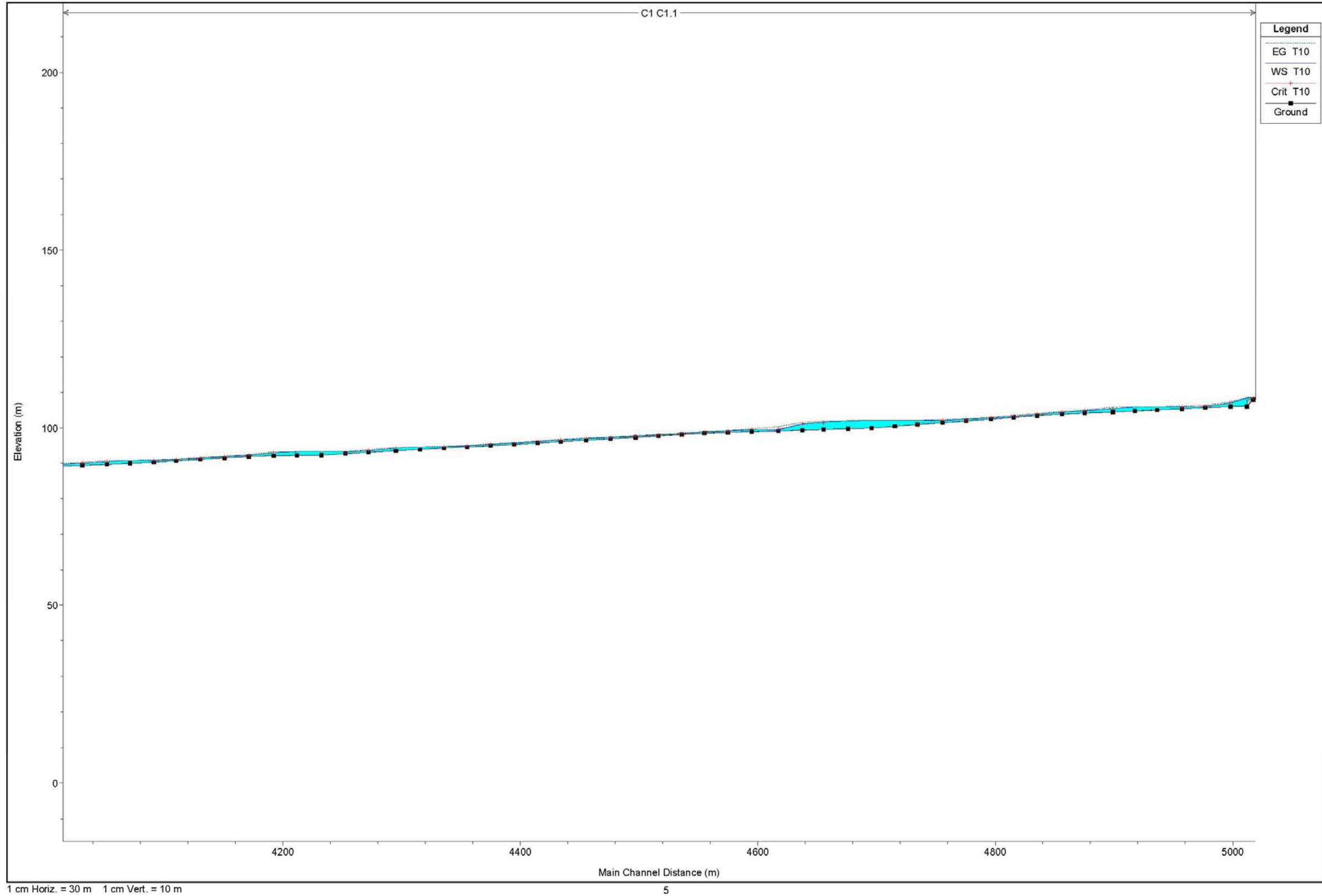
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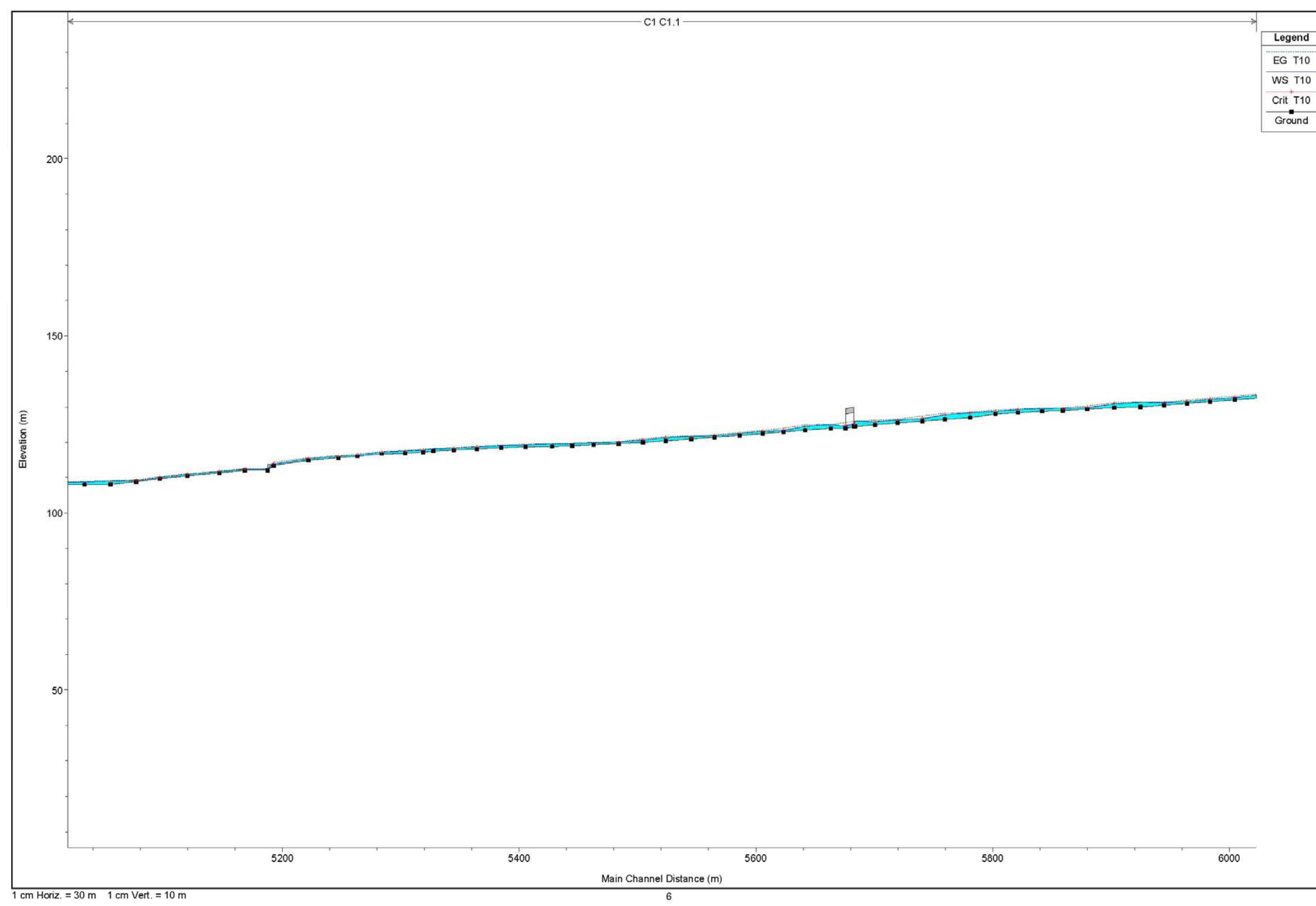
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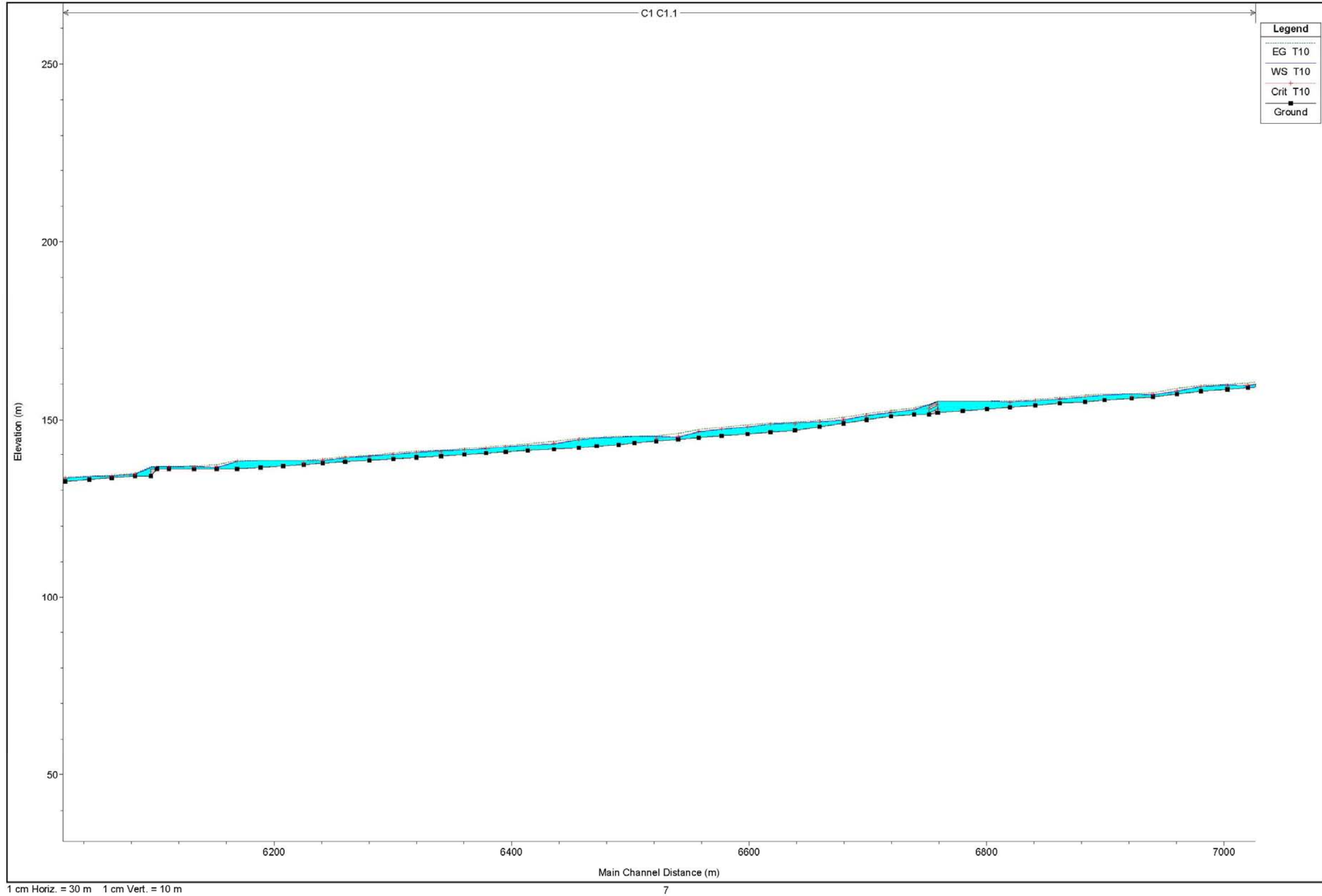


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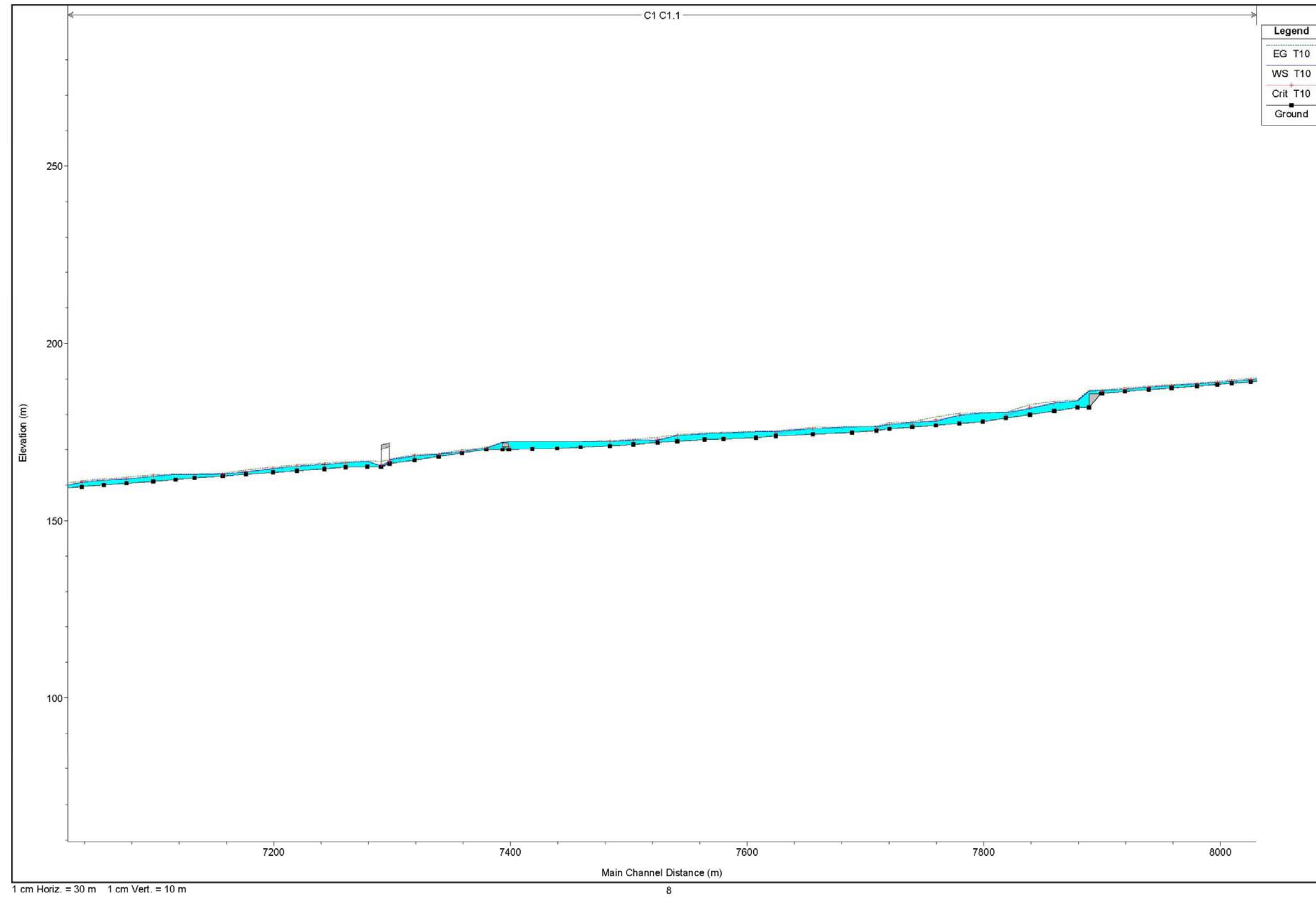


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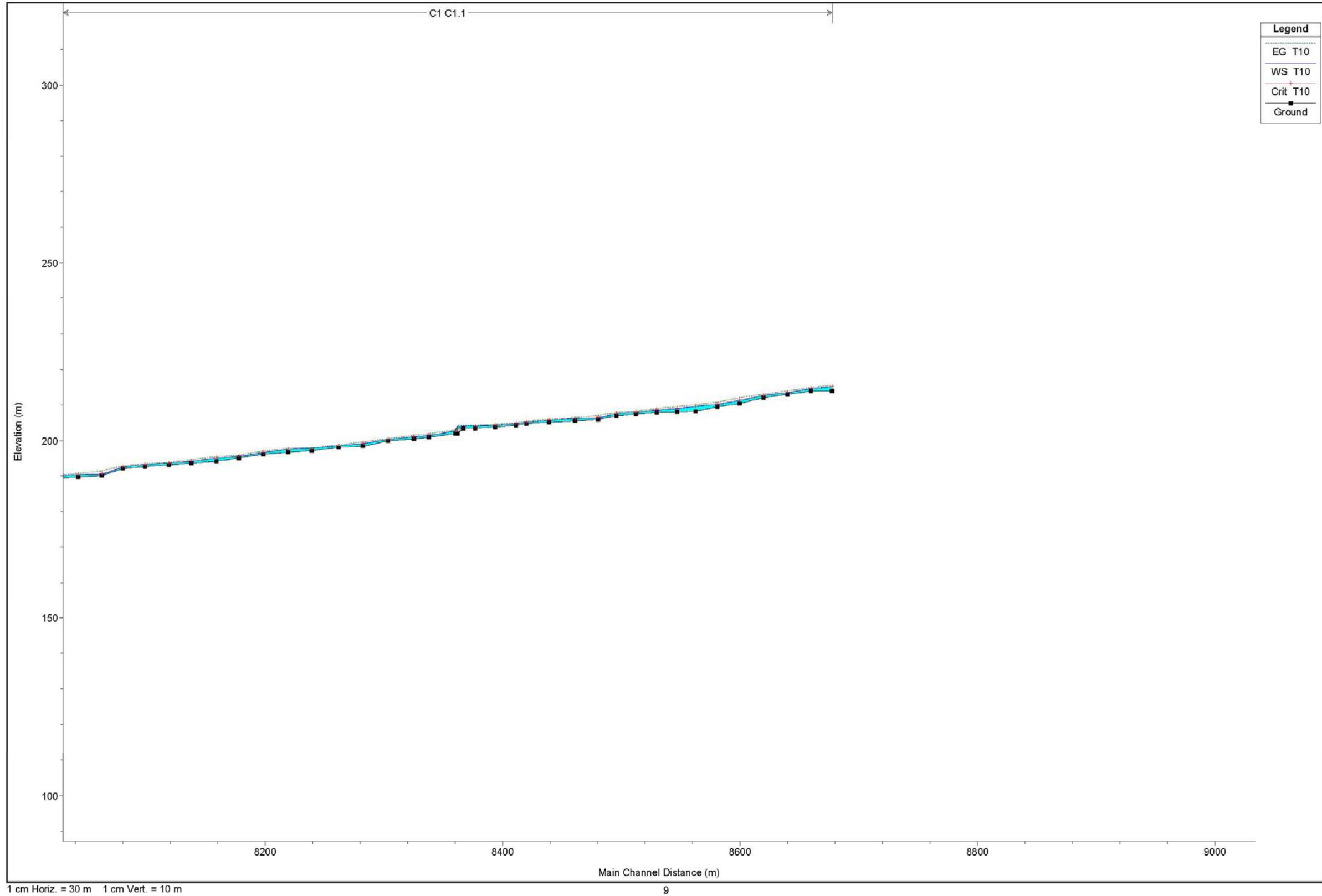




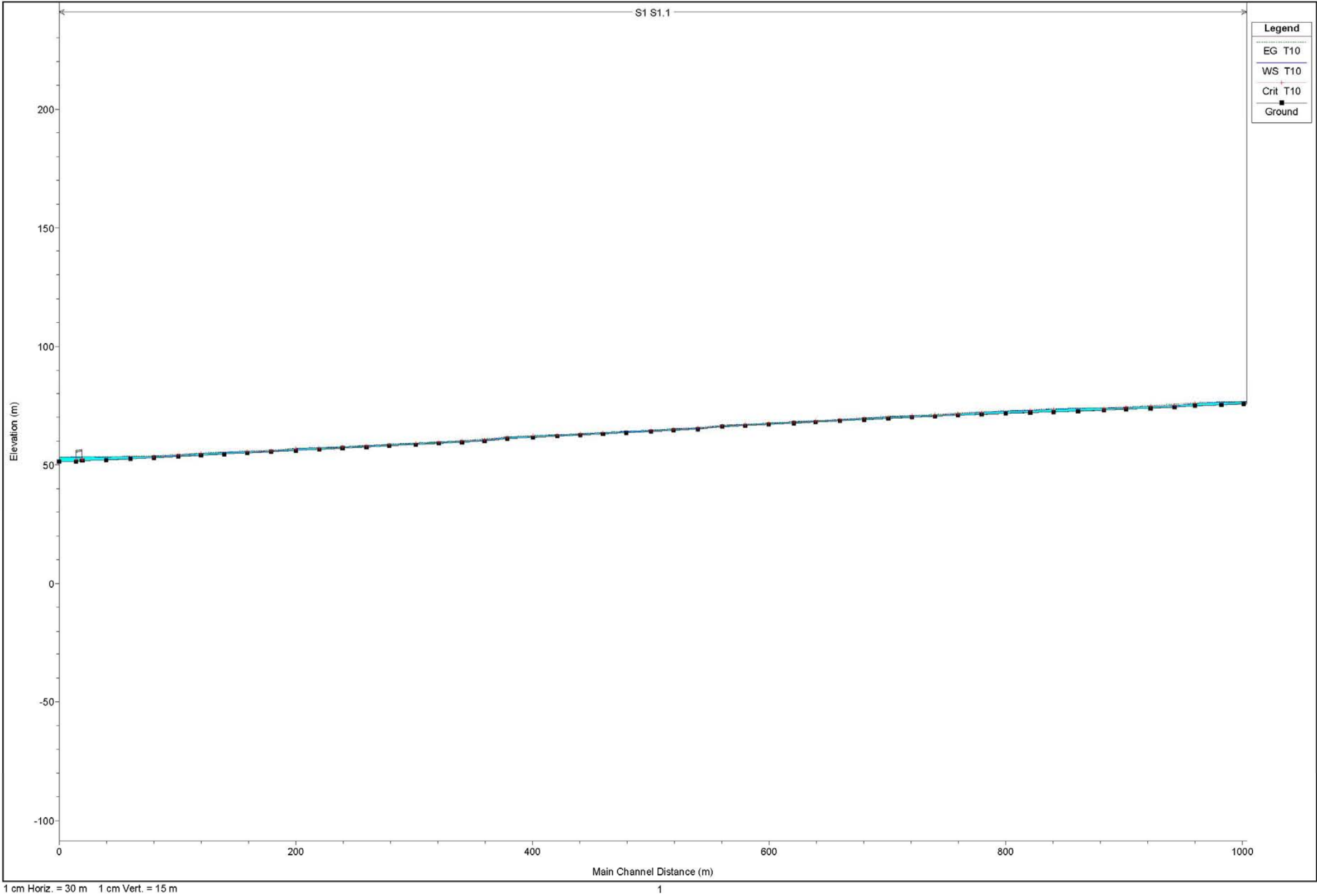
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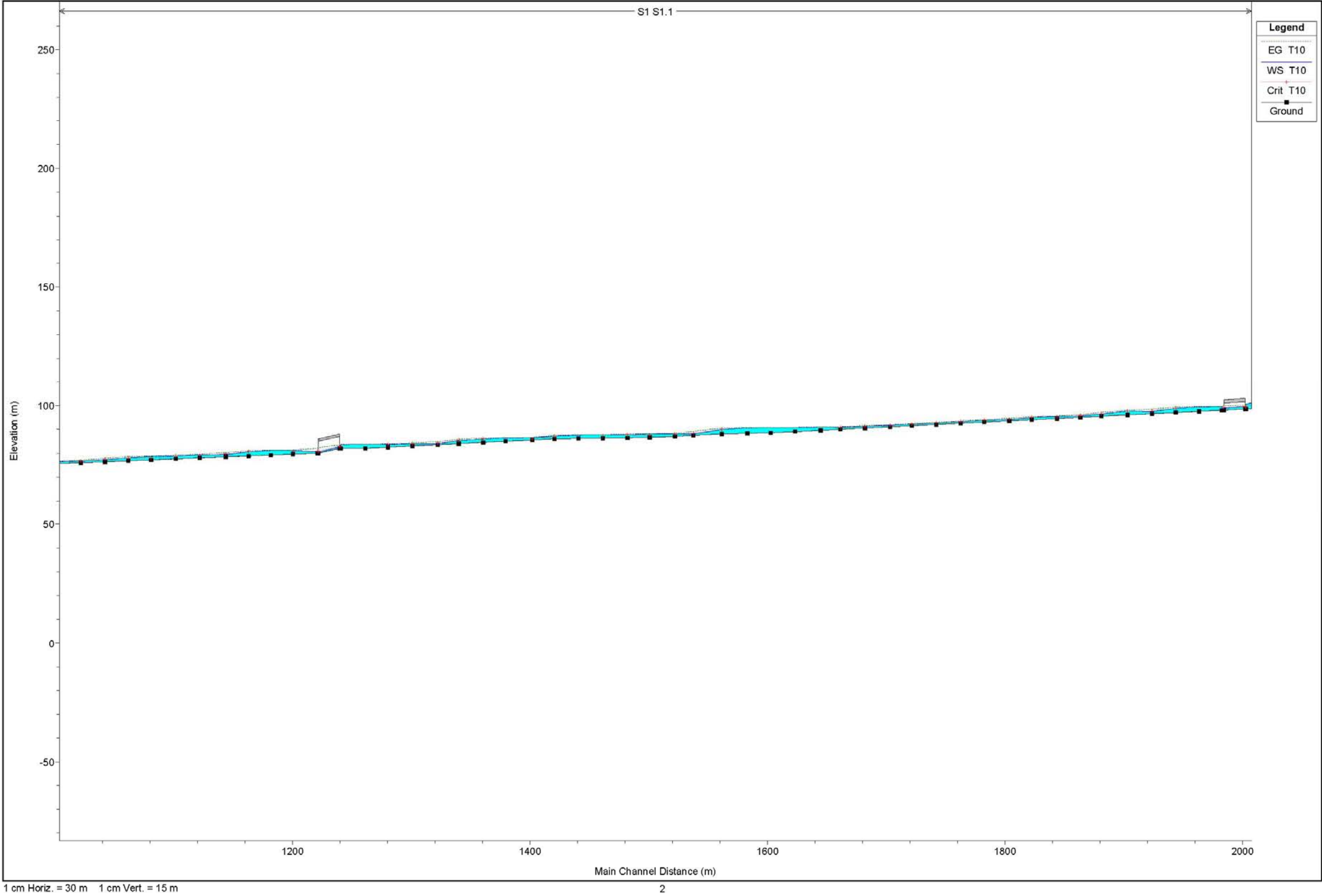
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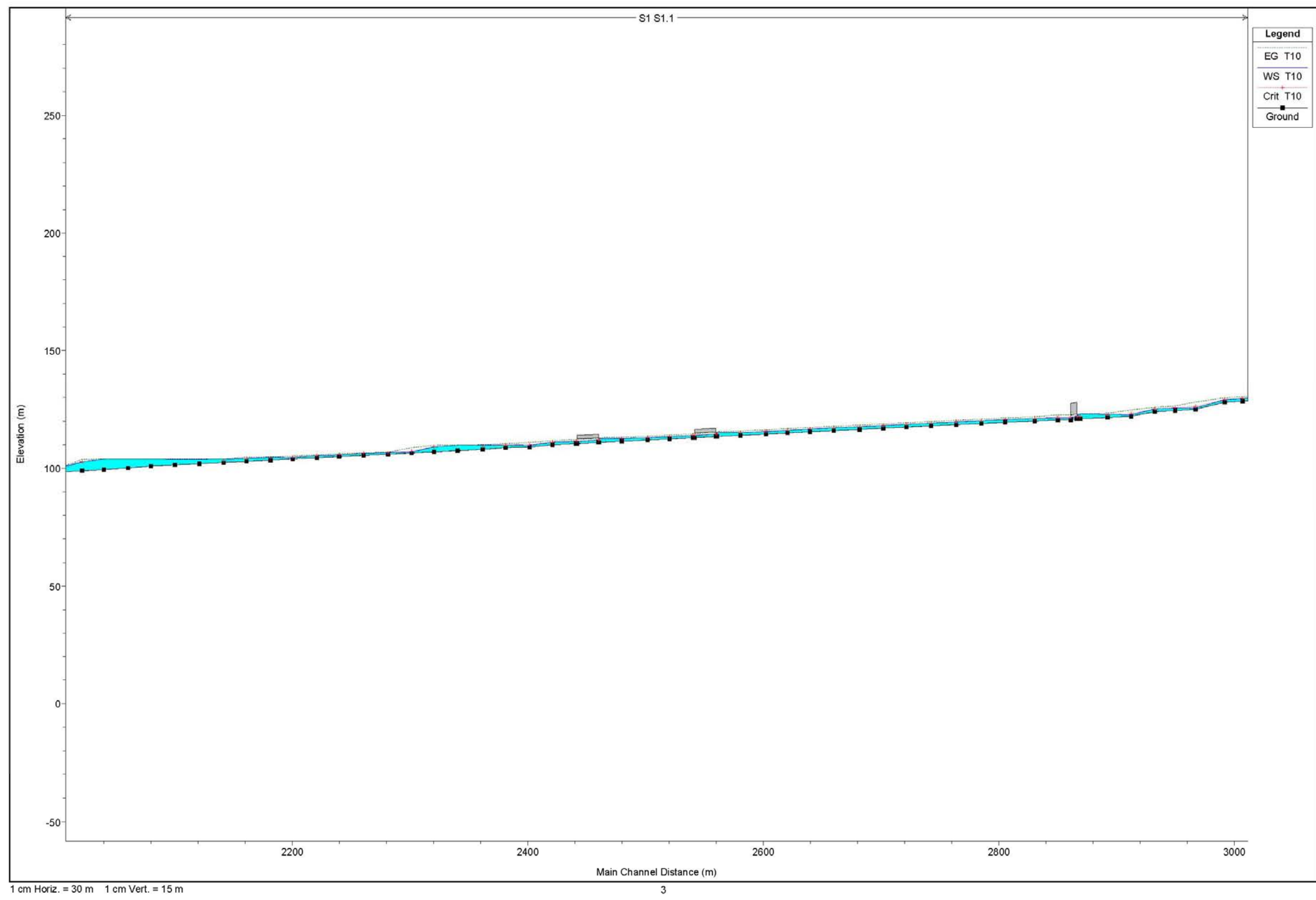
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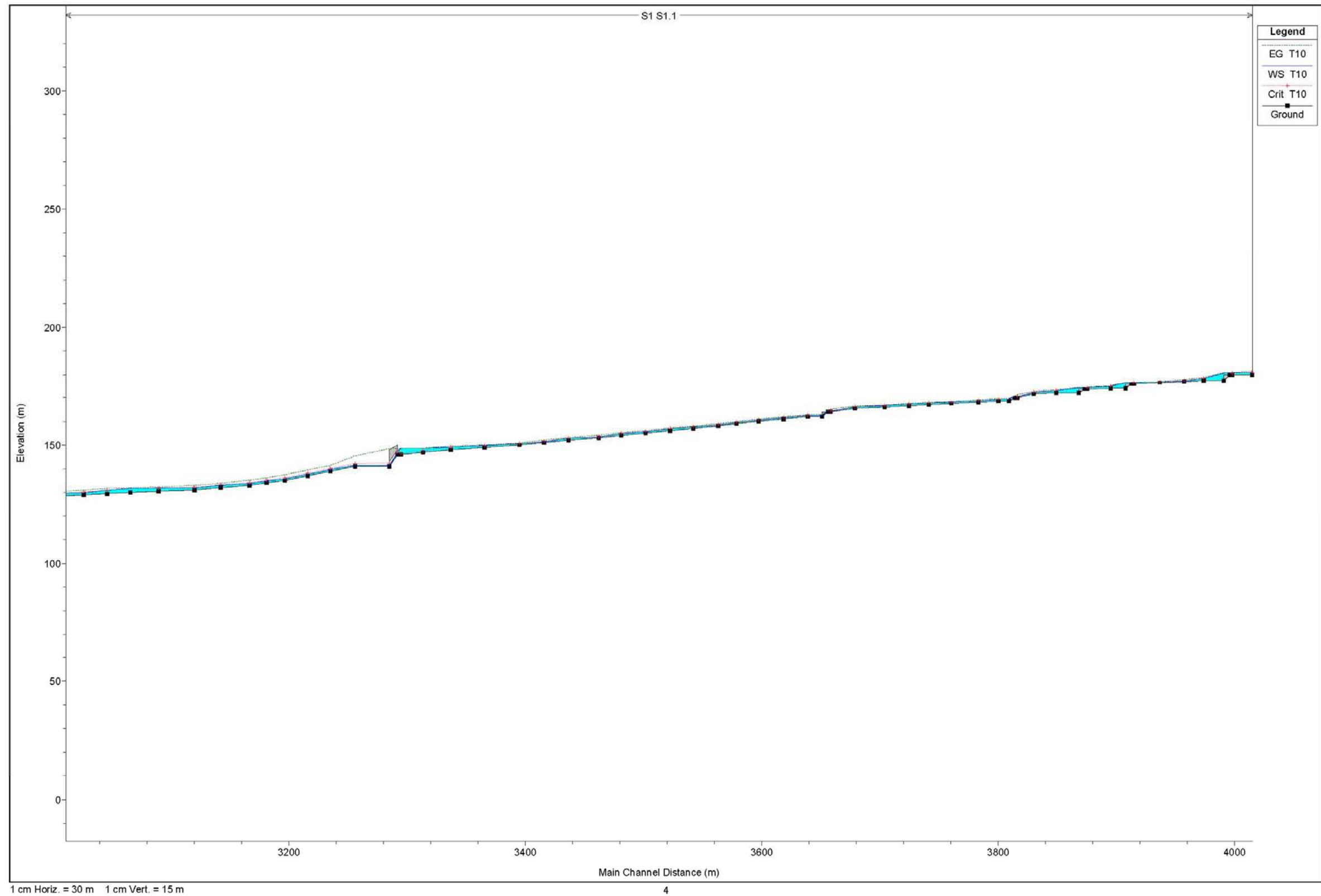


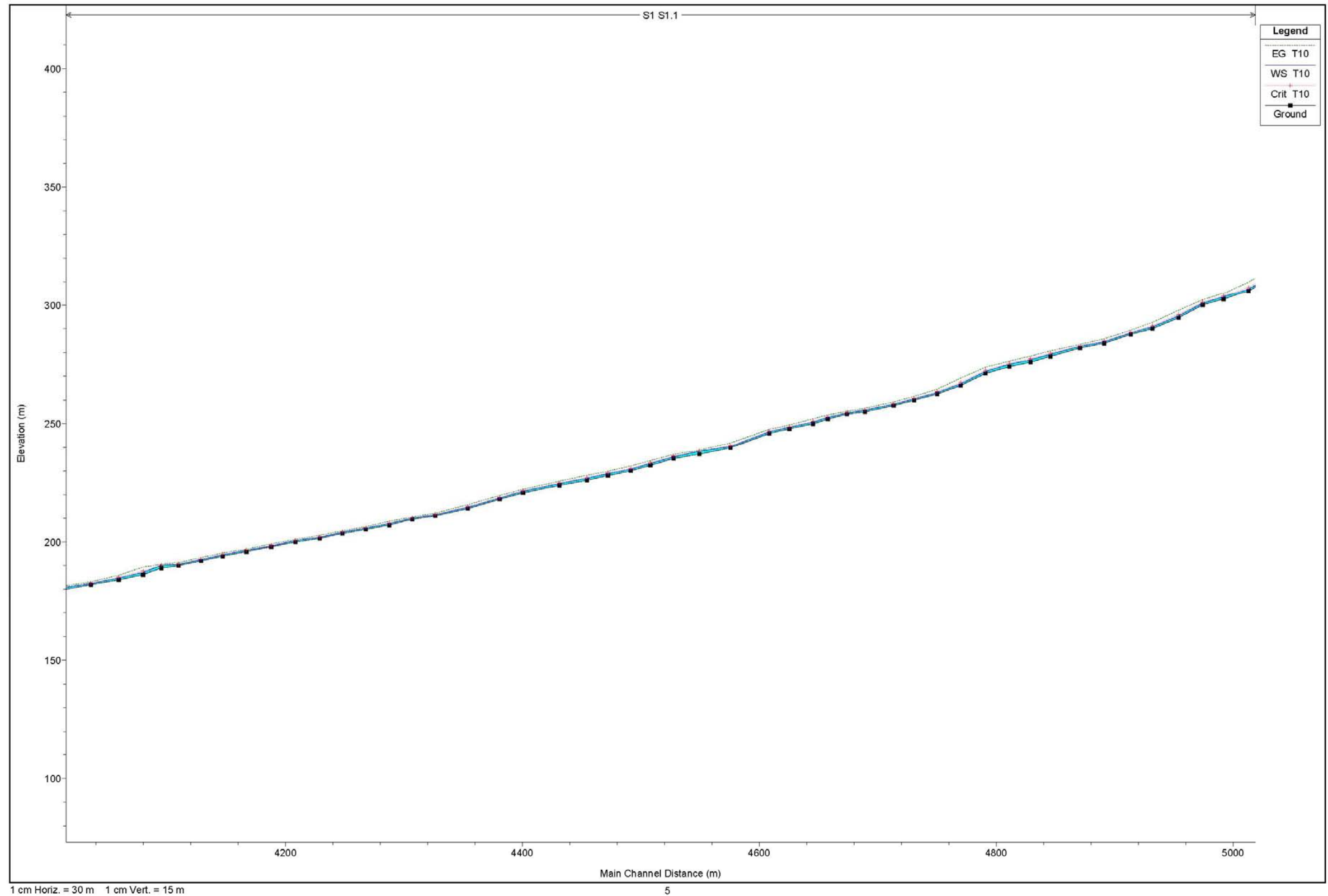
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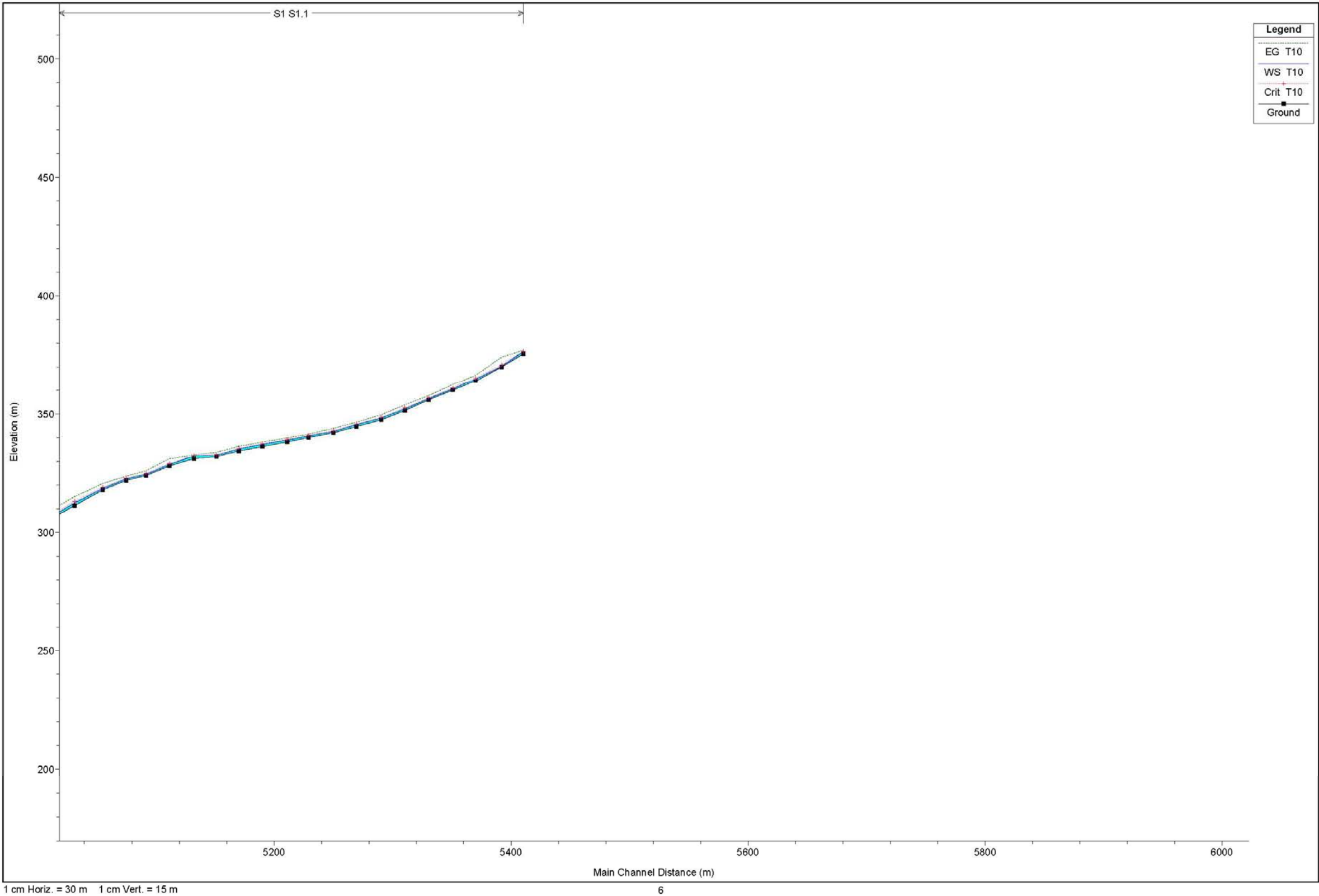
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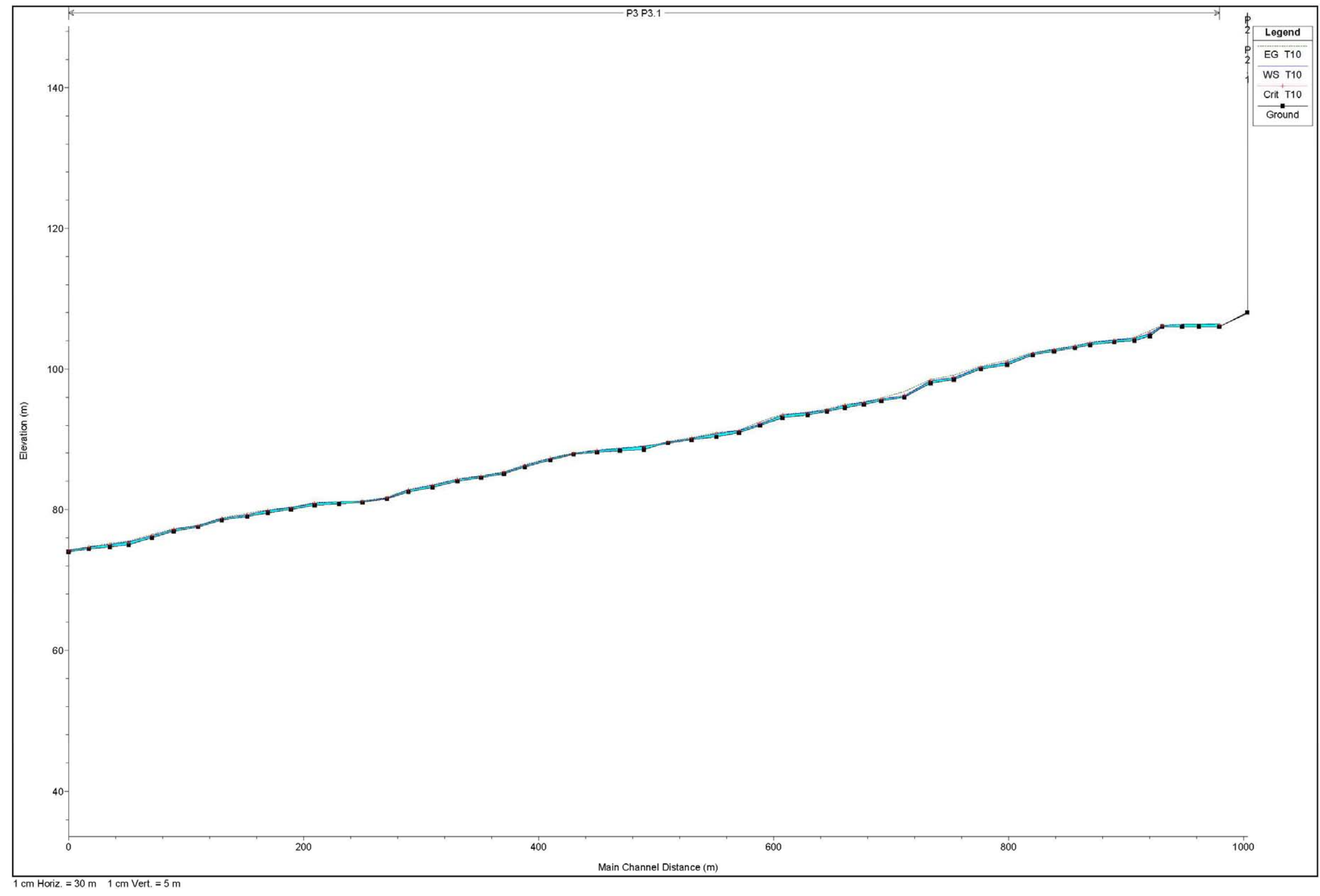


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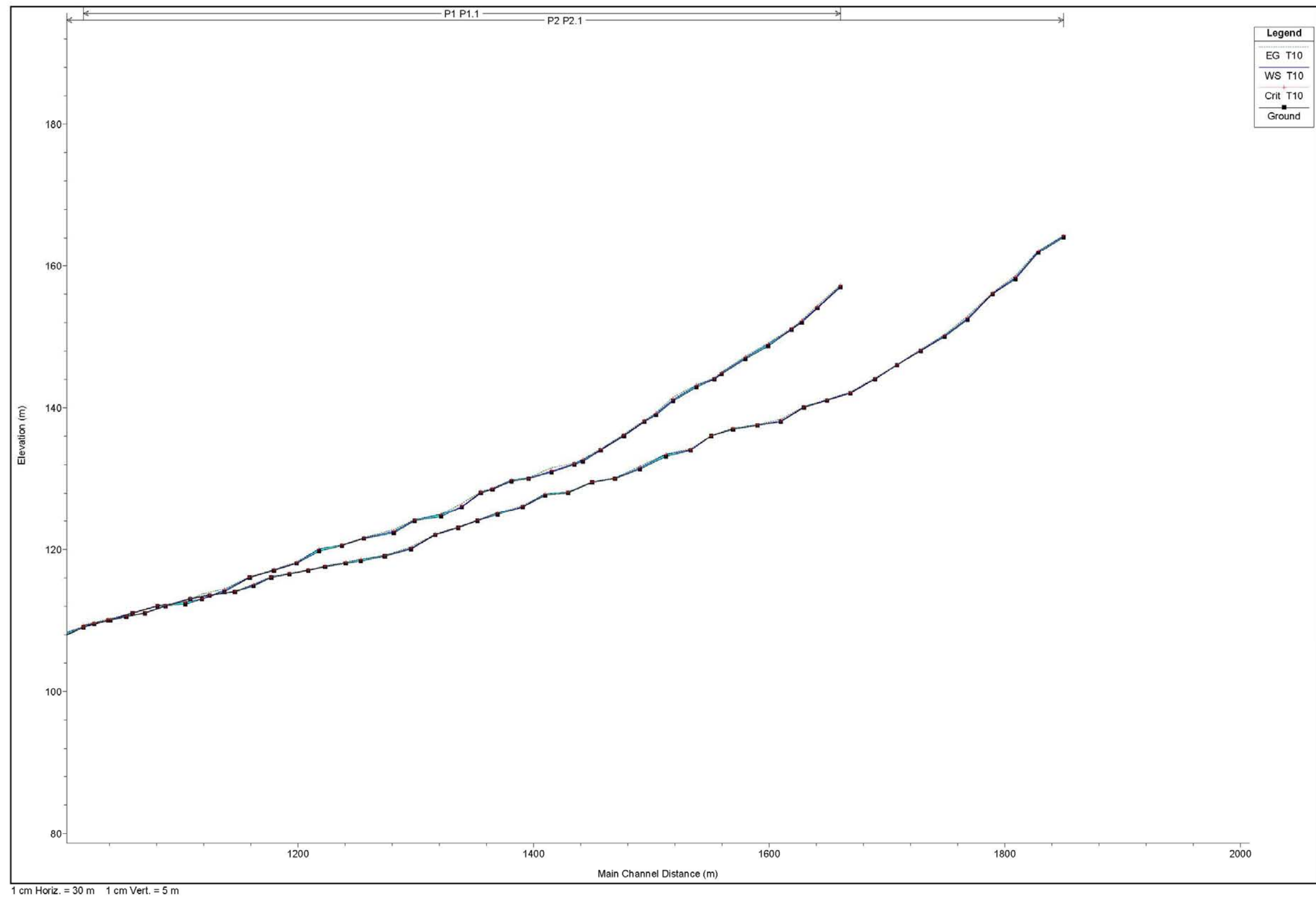


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3.1.2.3.- Arroyo Pachurraco



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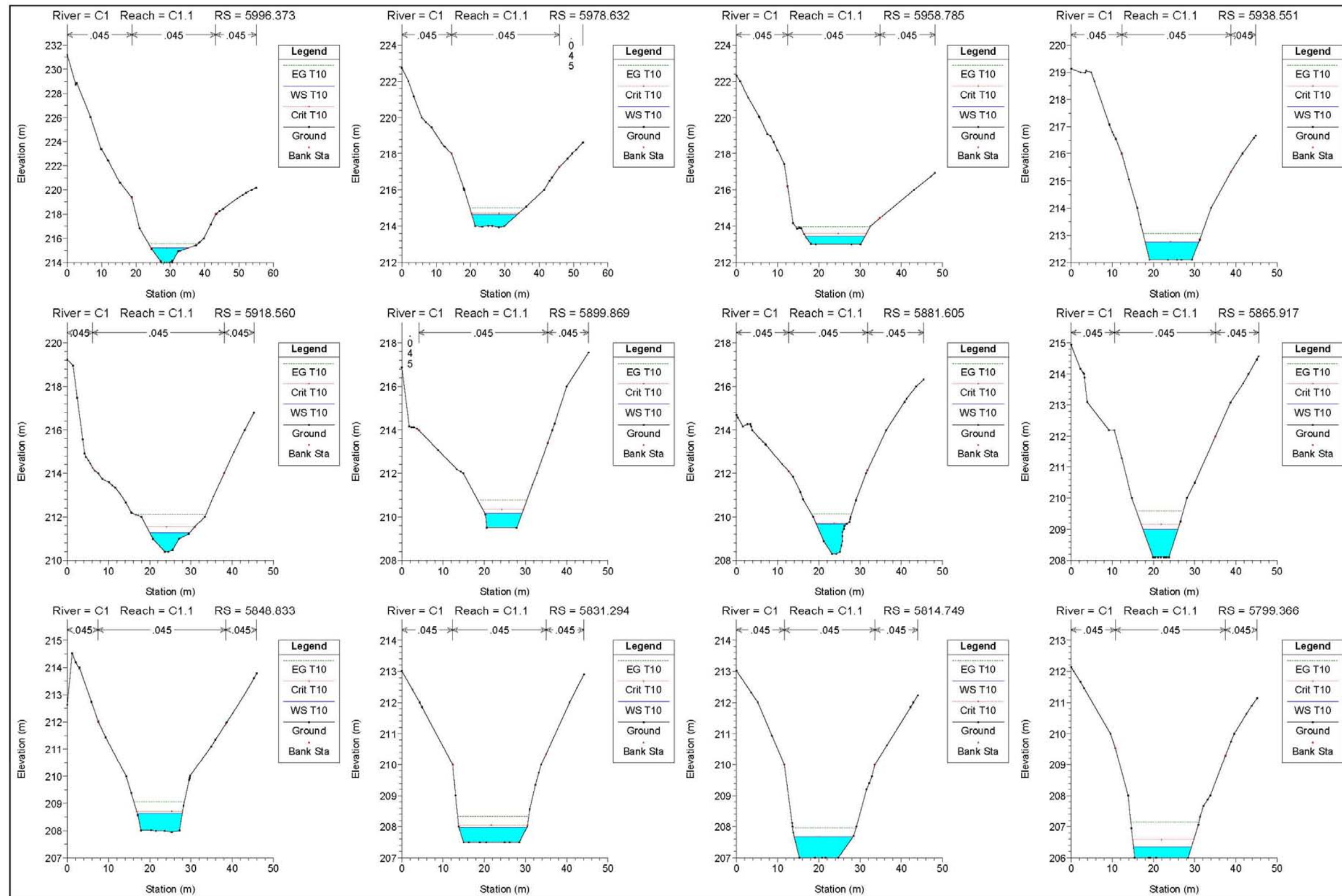
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3.1.3.1.- Arroyo de Las Cañas

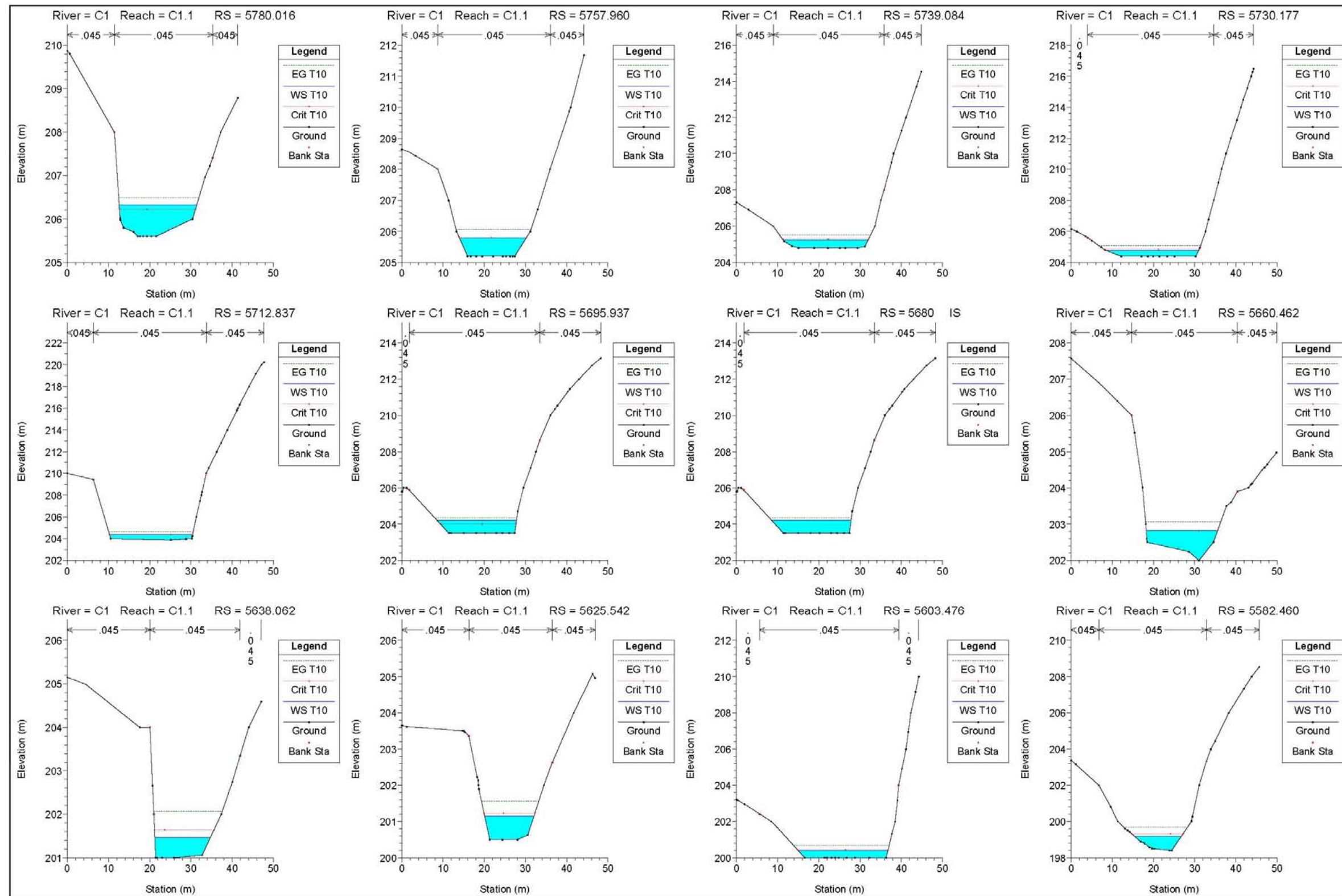
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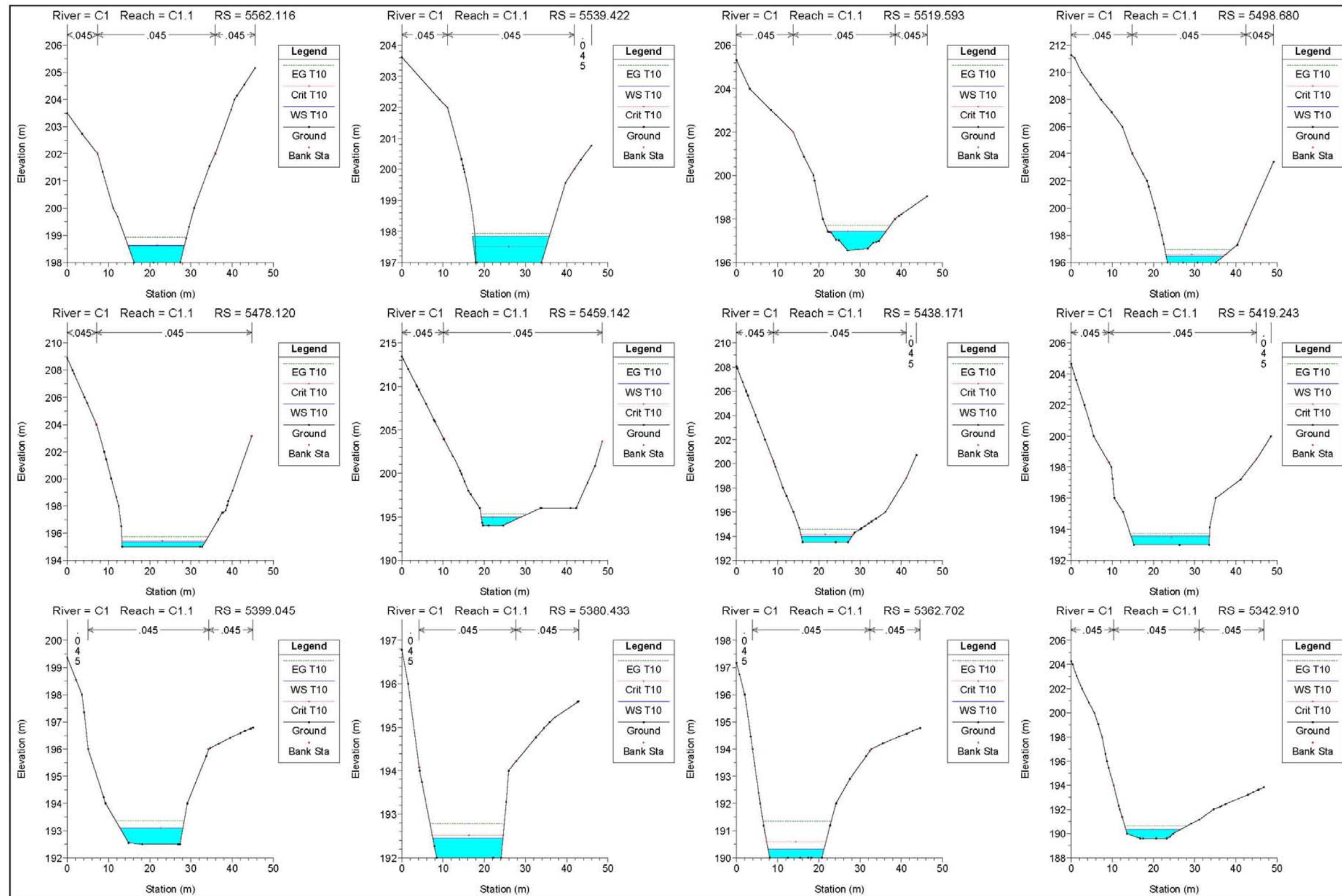
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3.1.3.1.- Arroyo de Las Cañas

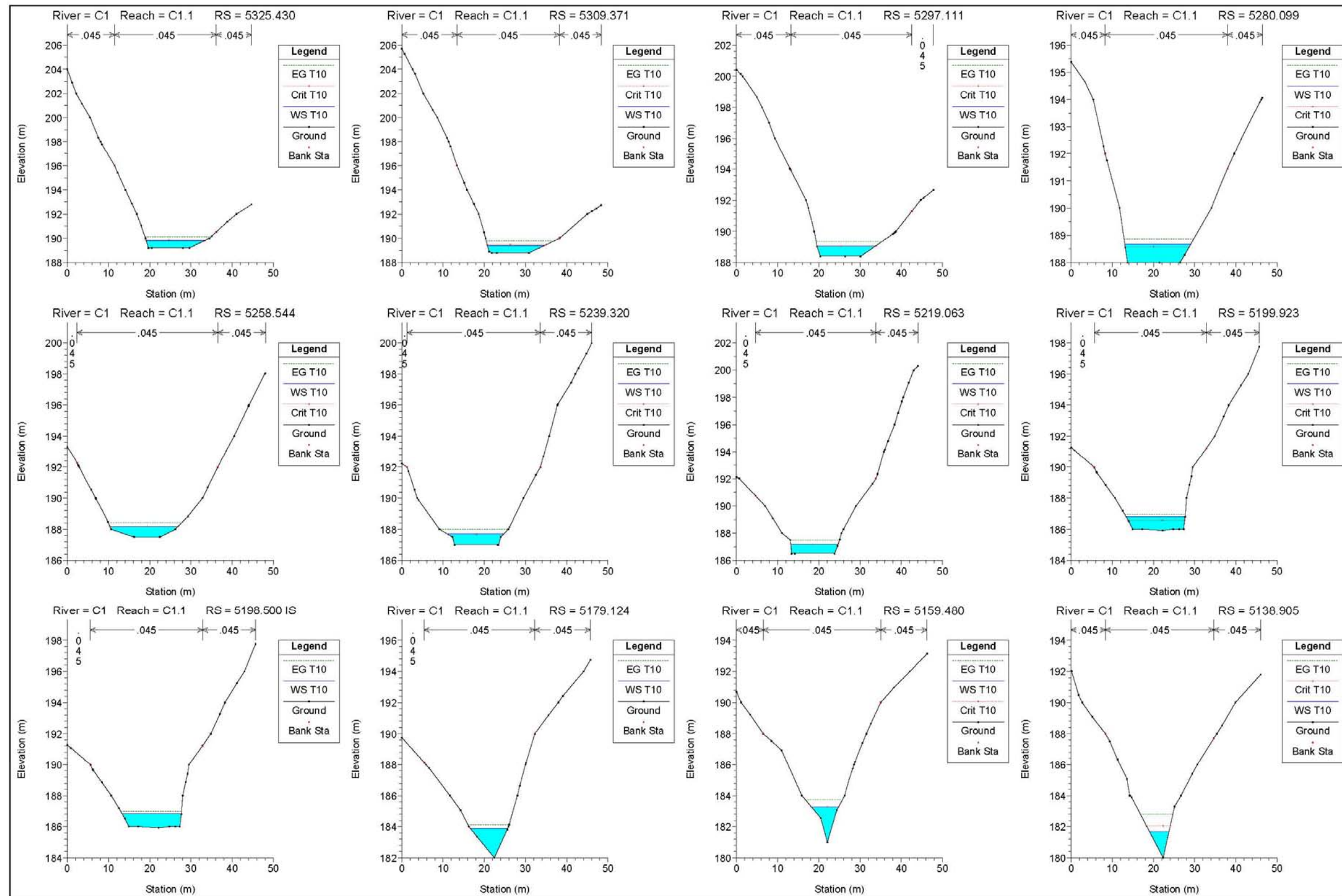


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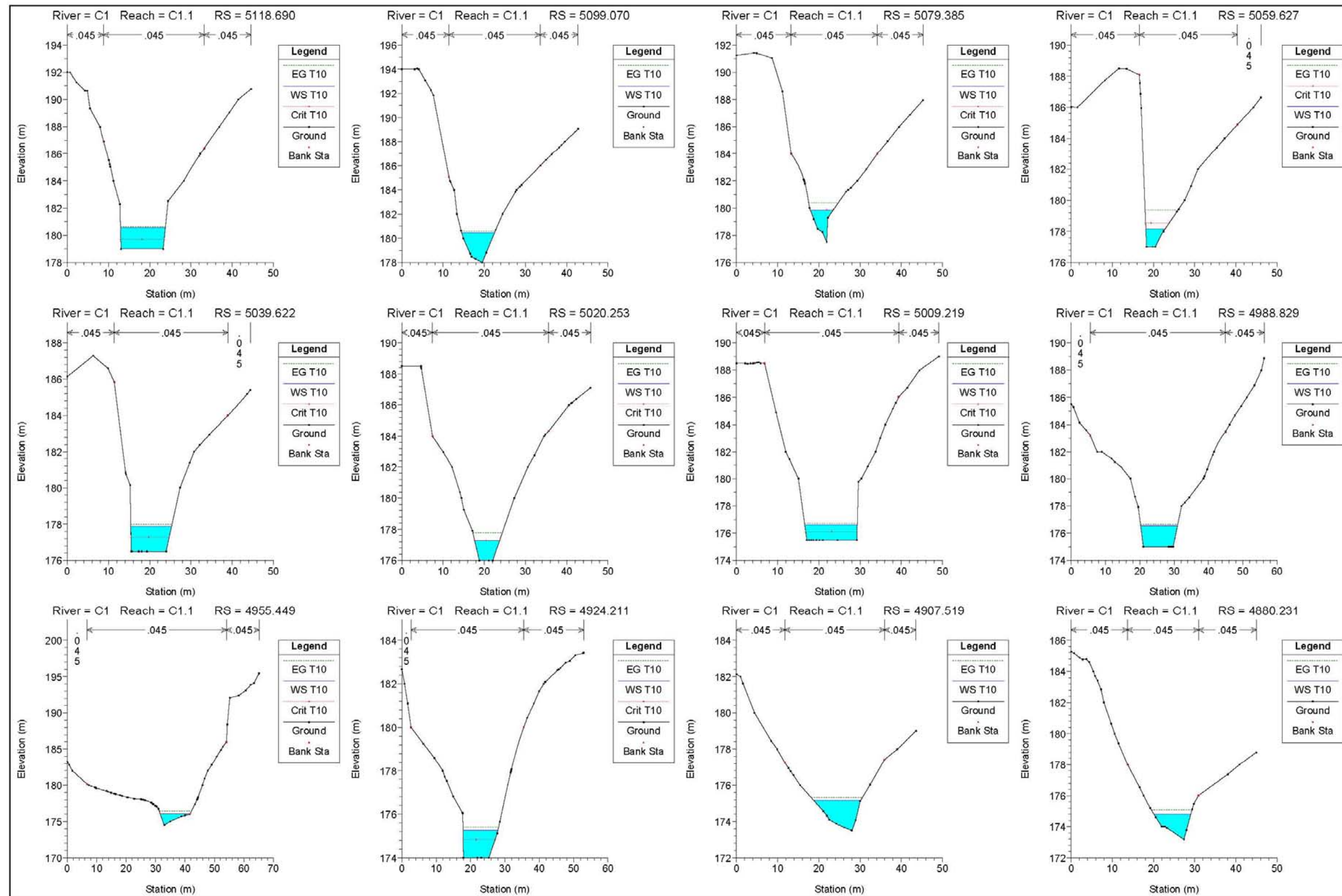




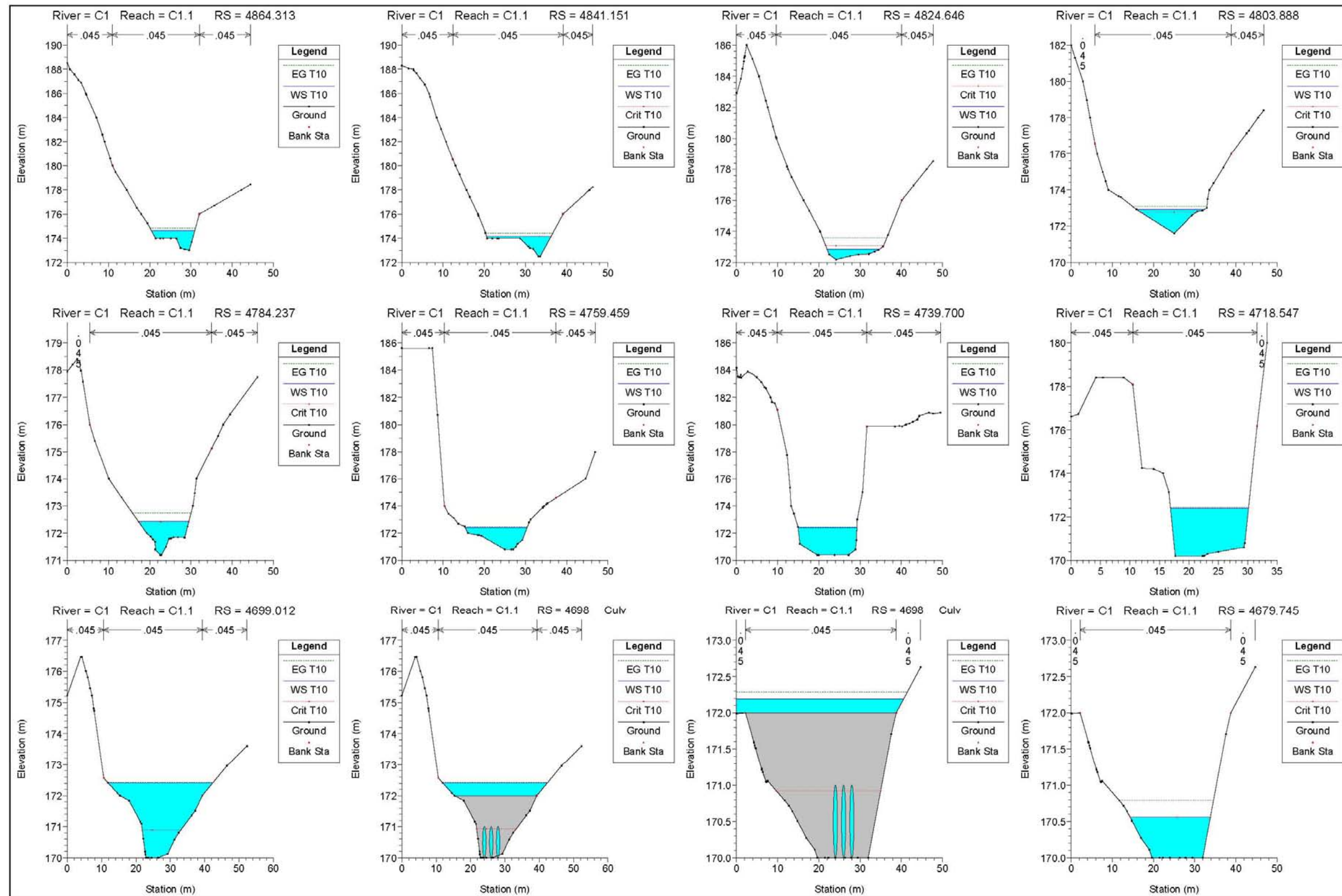
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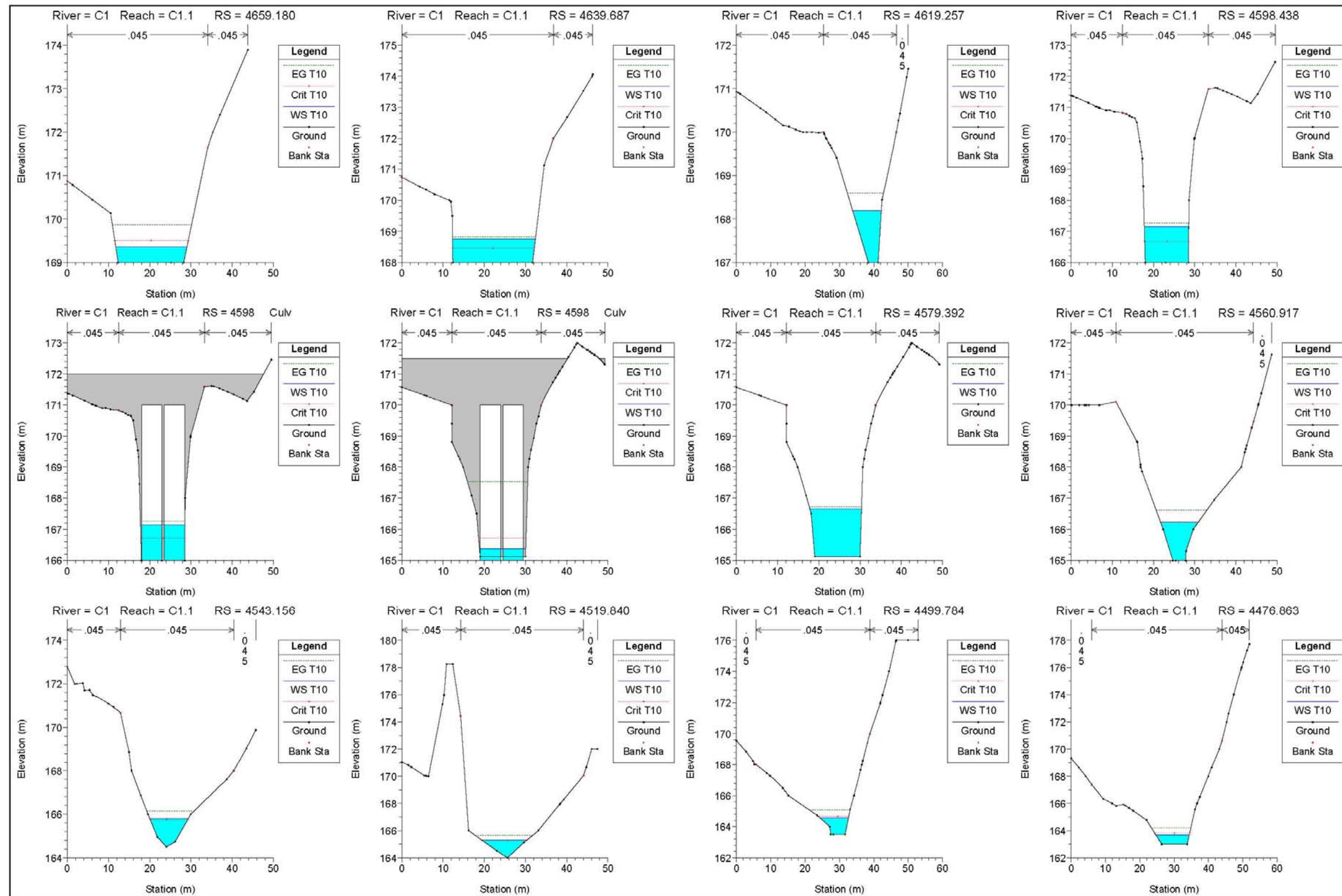
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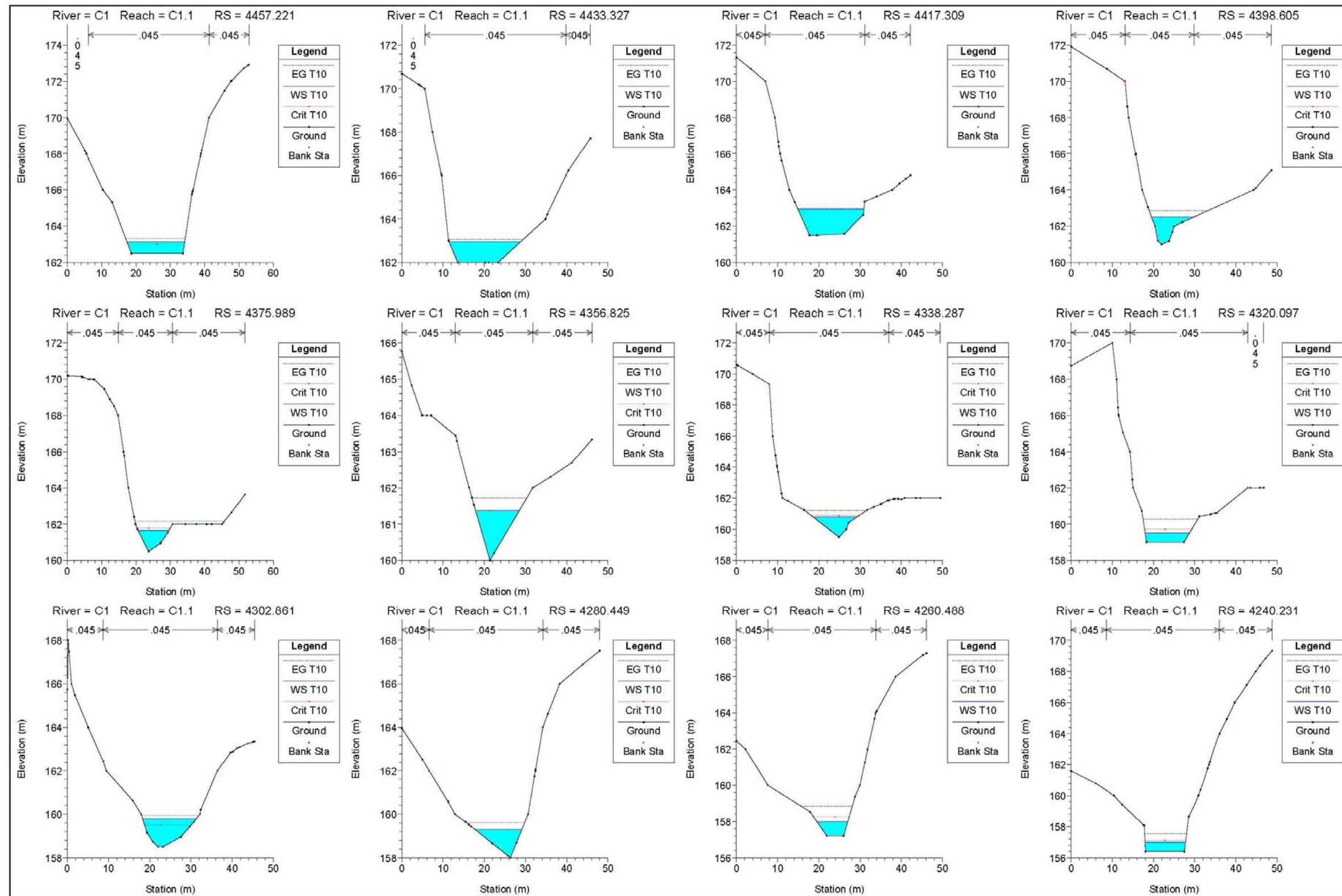
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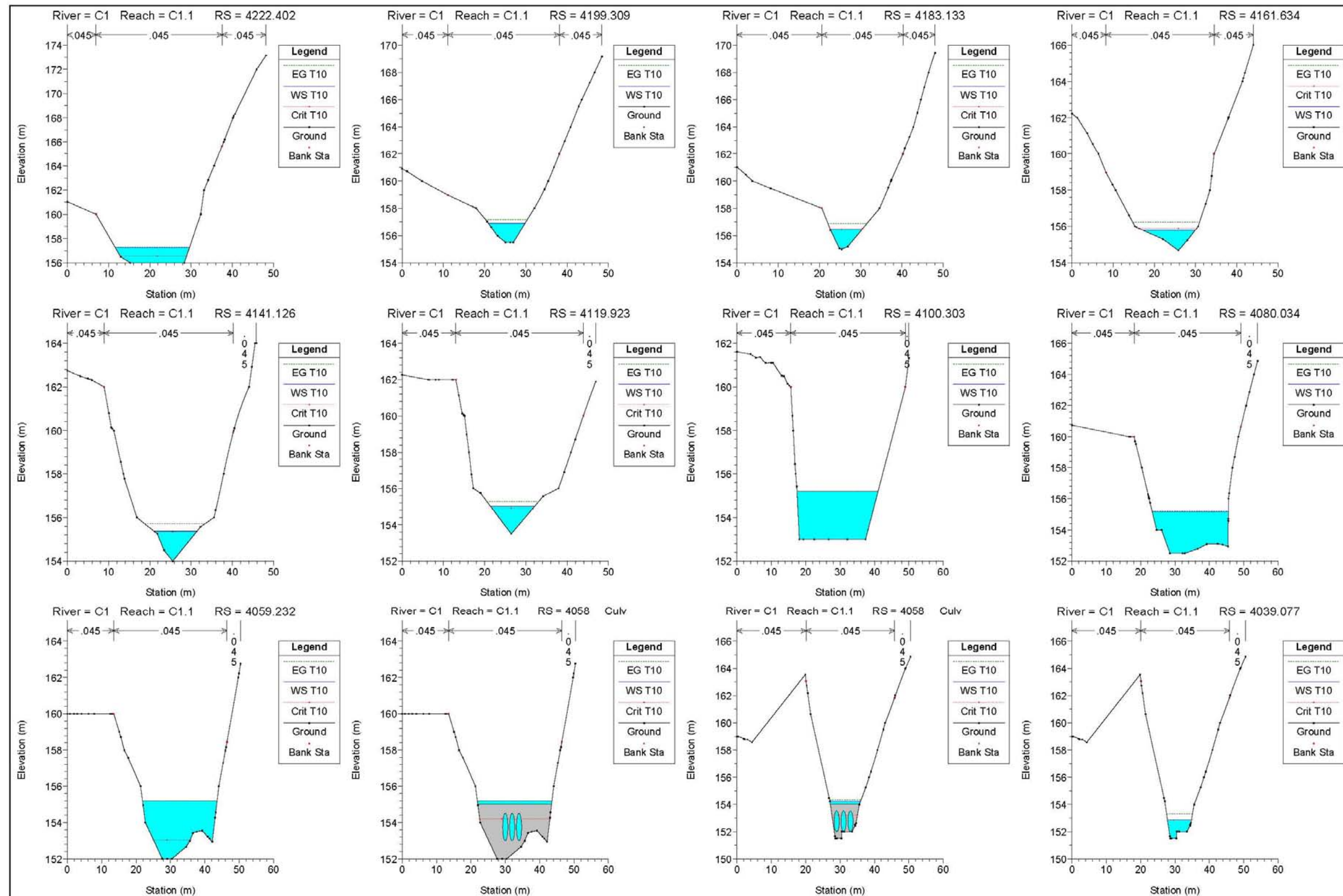
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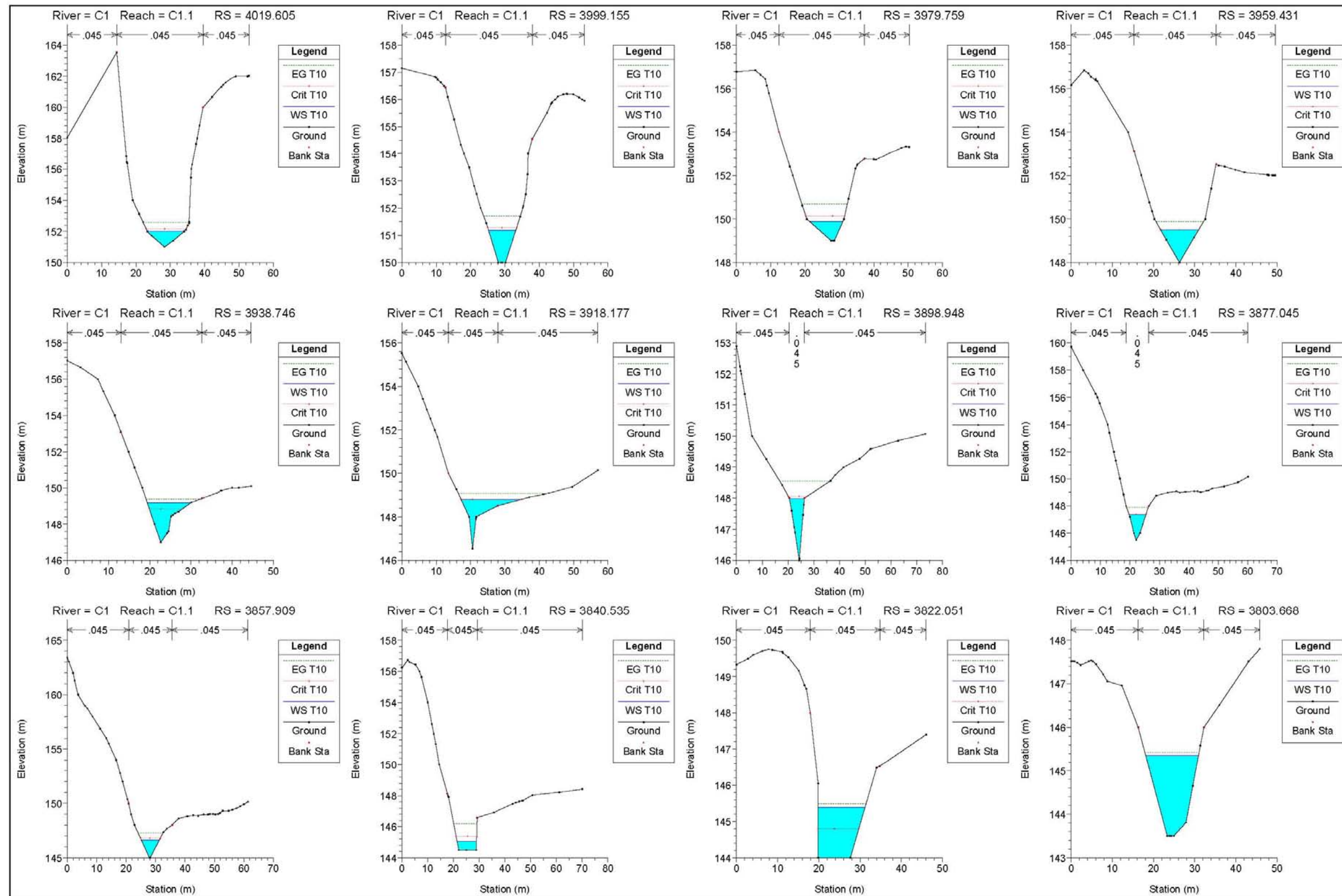
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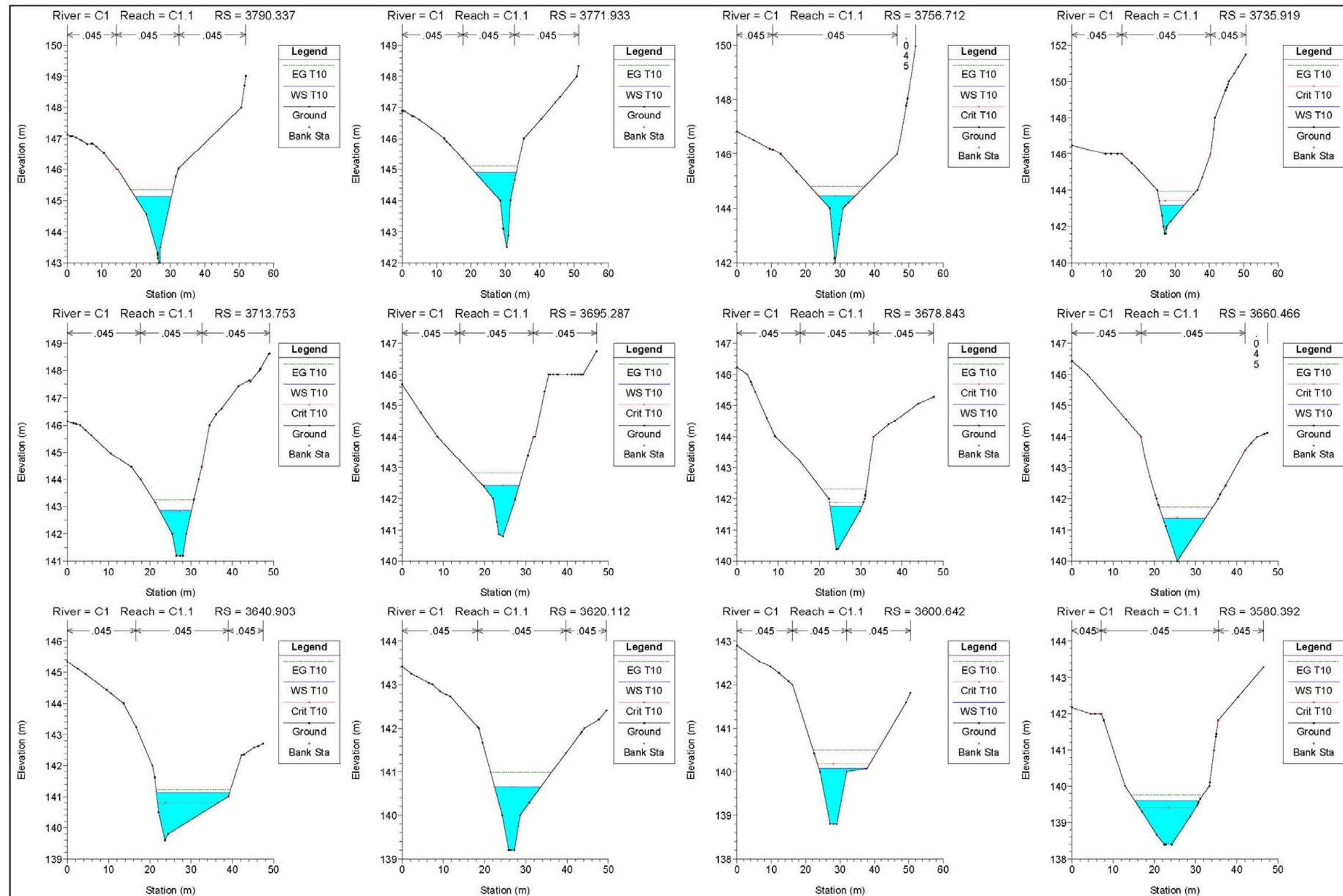


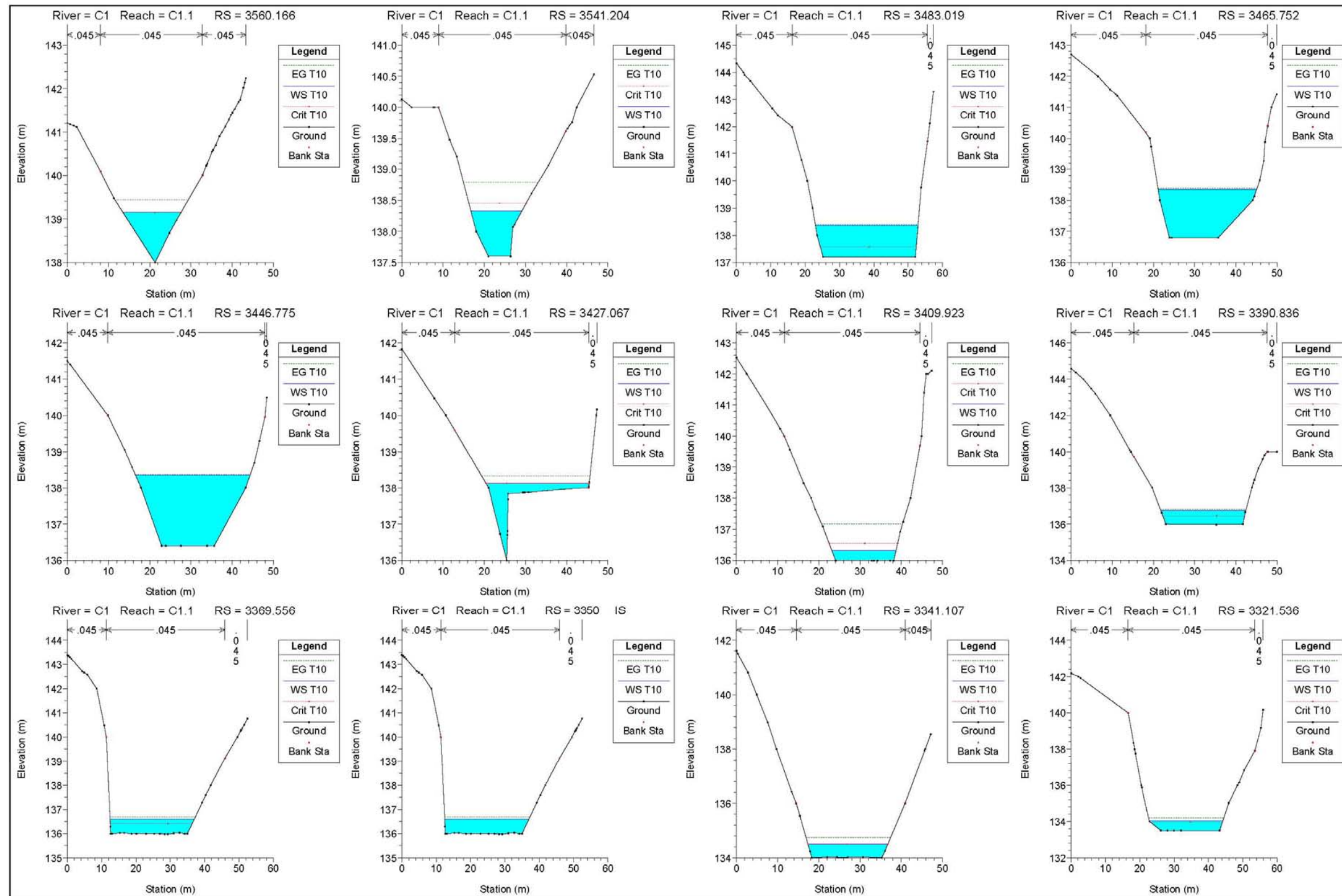
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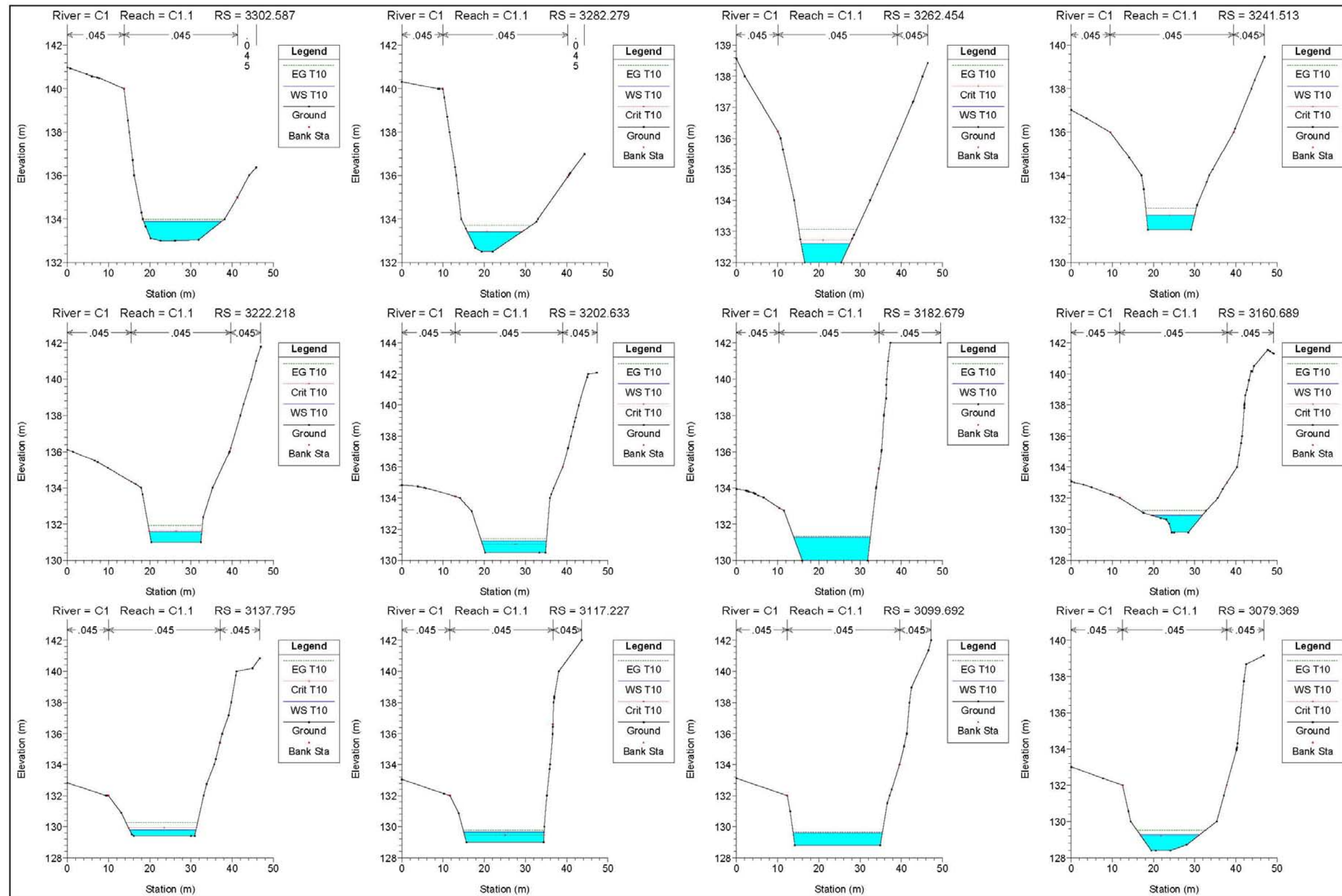
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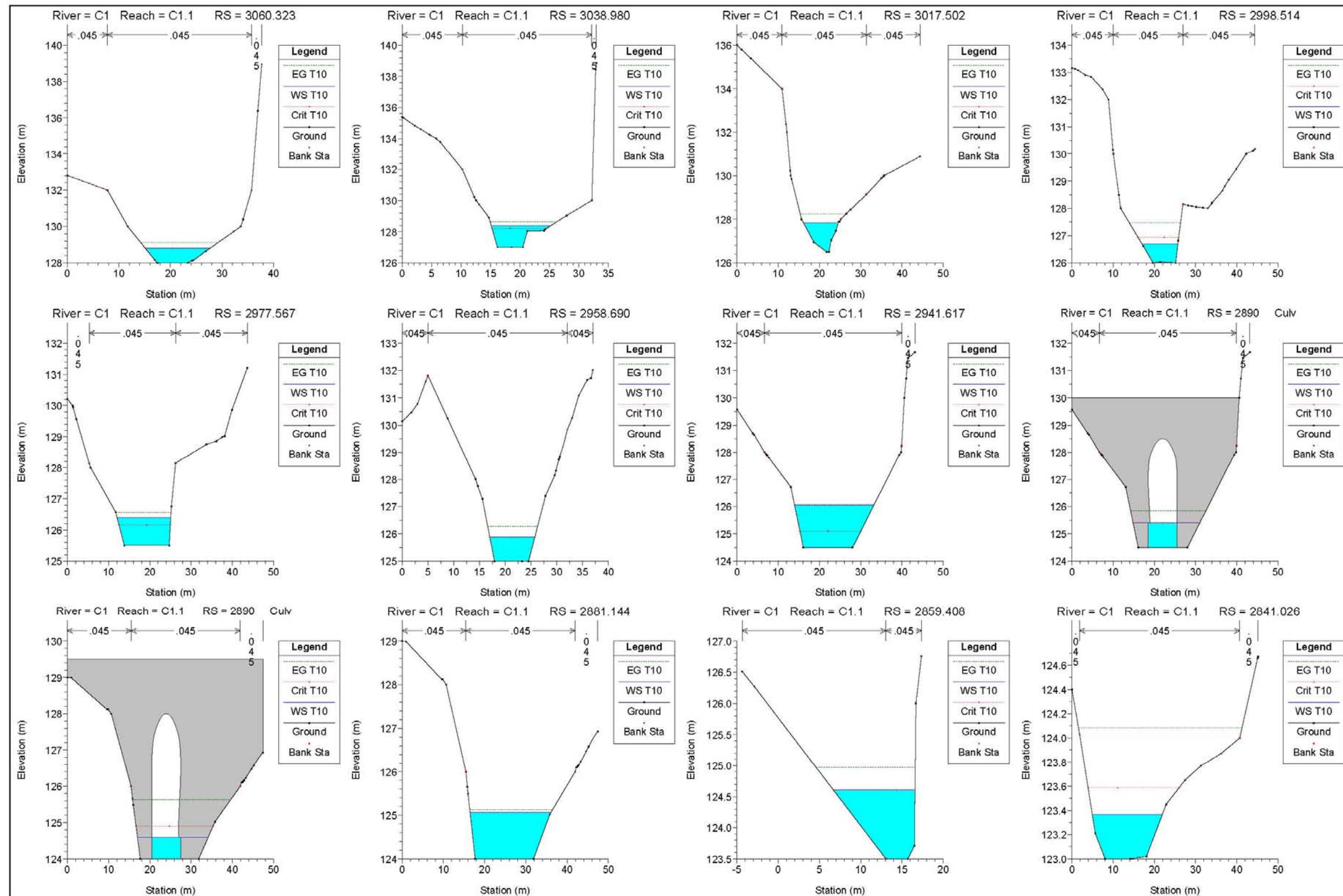


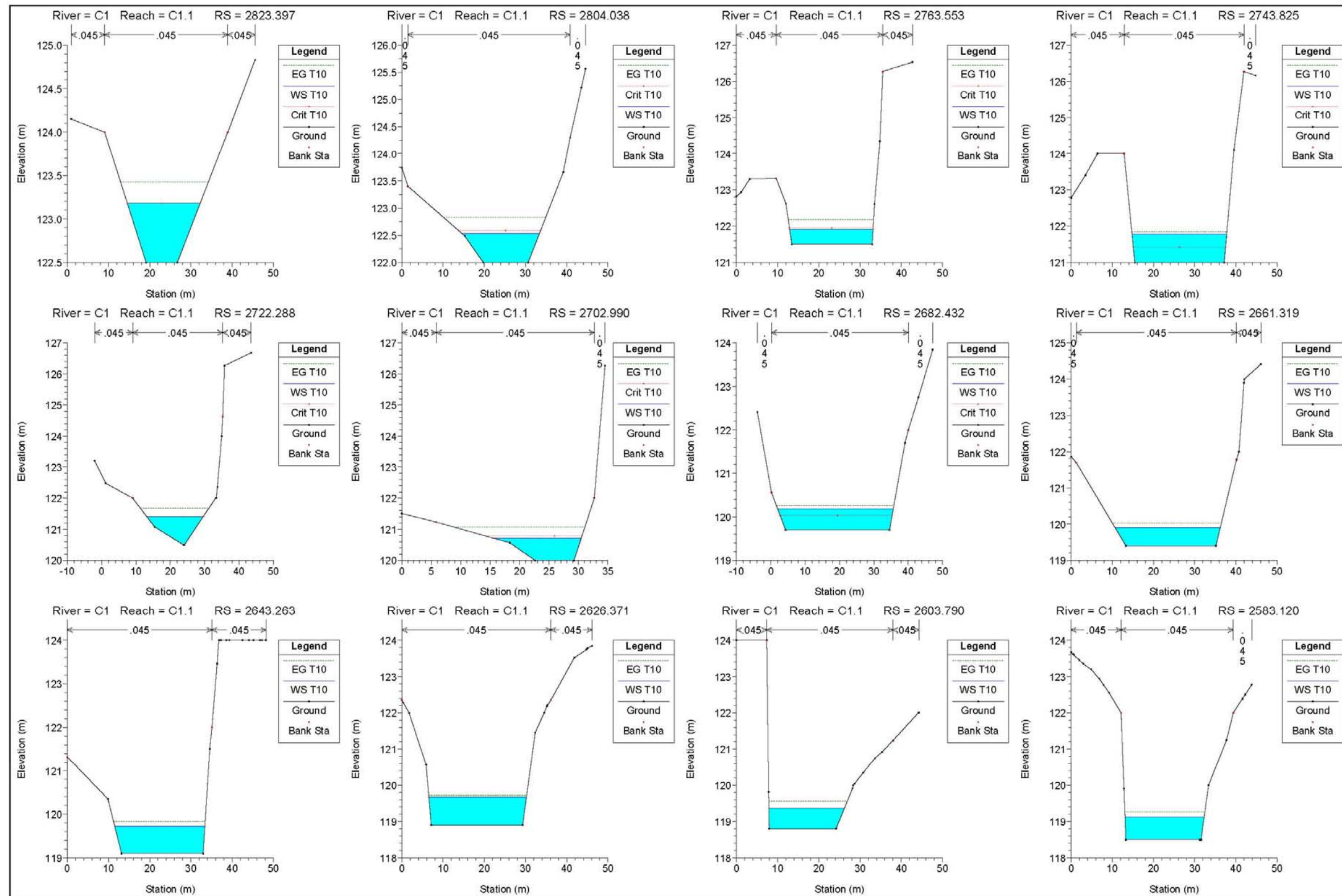


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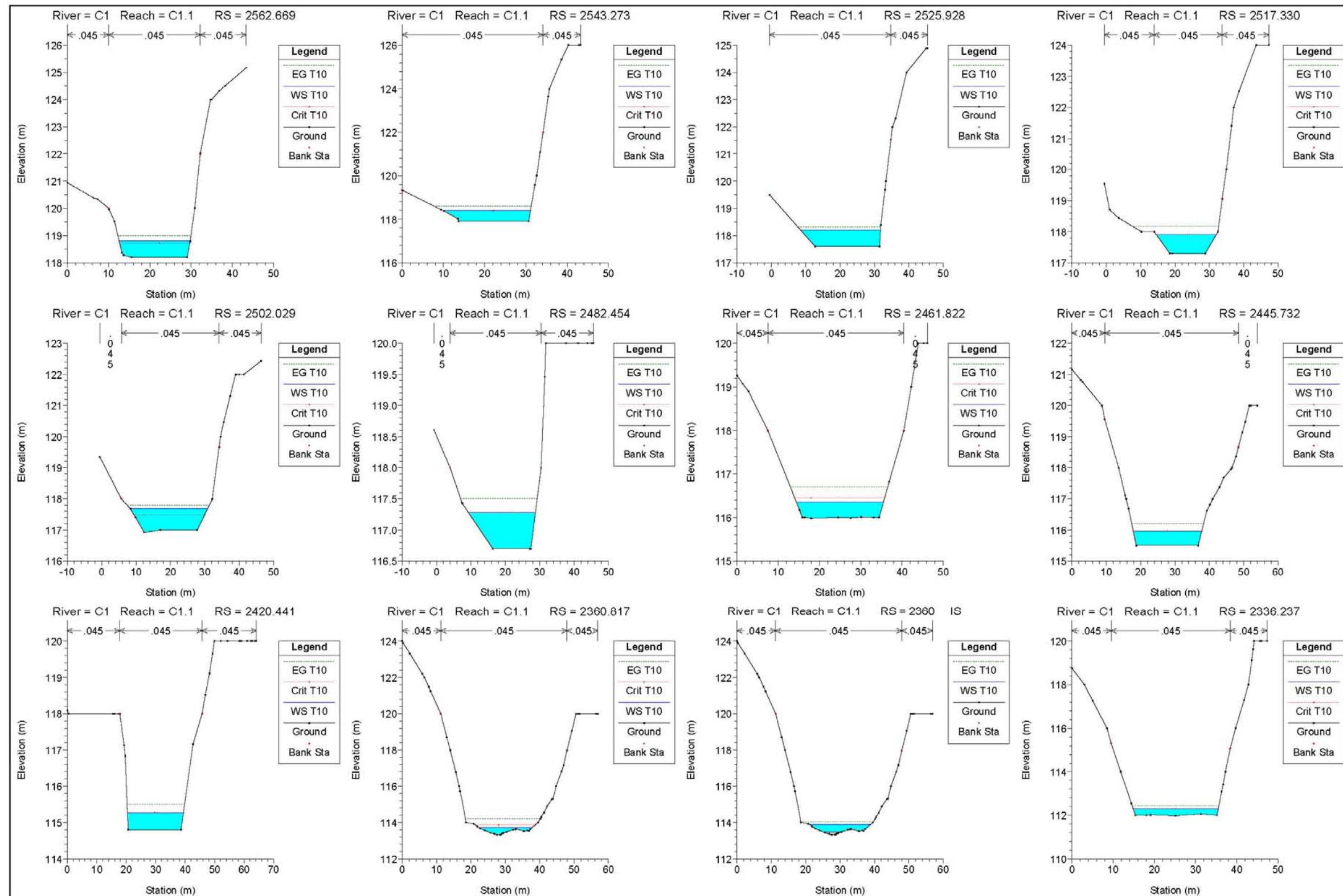


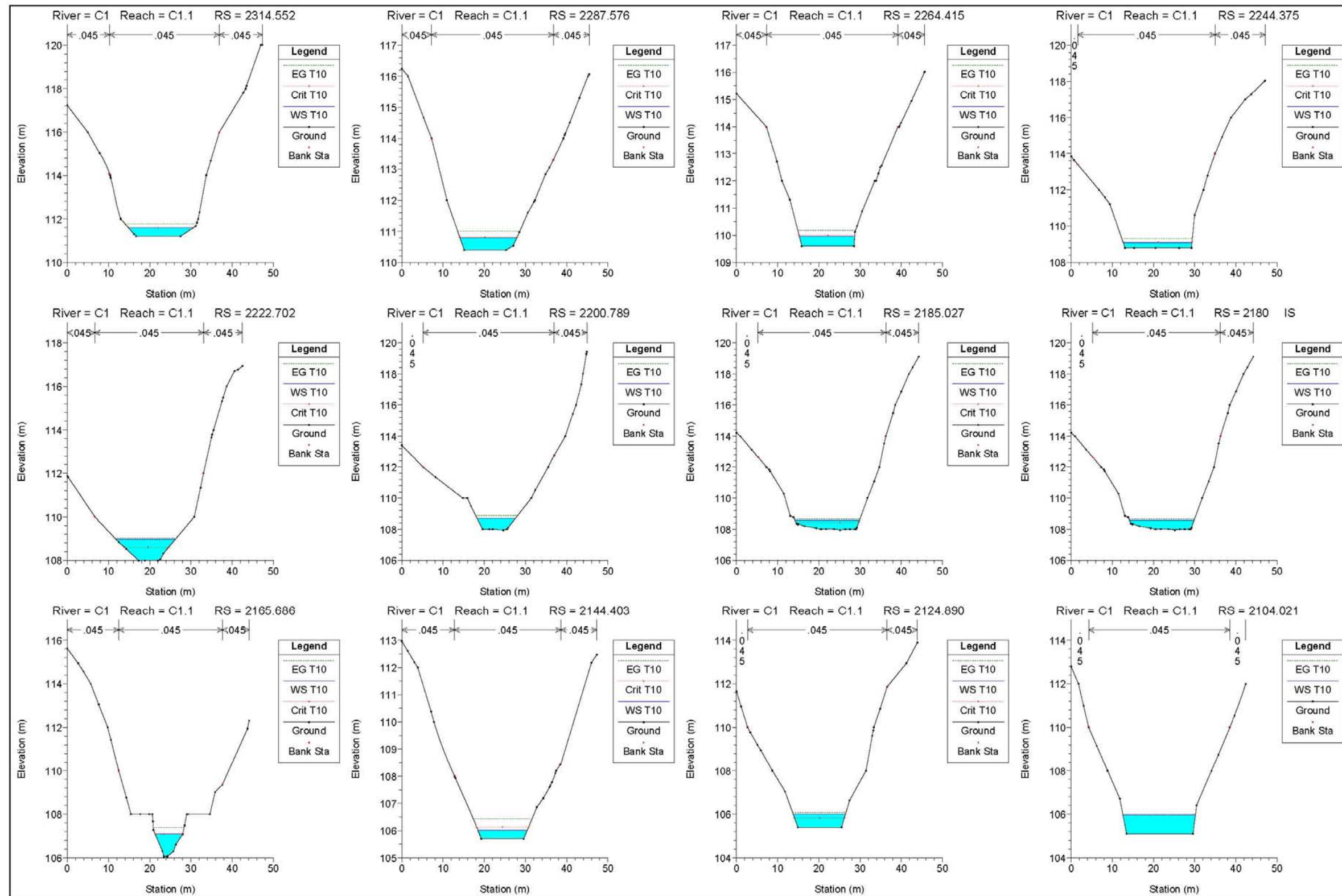
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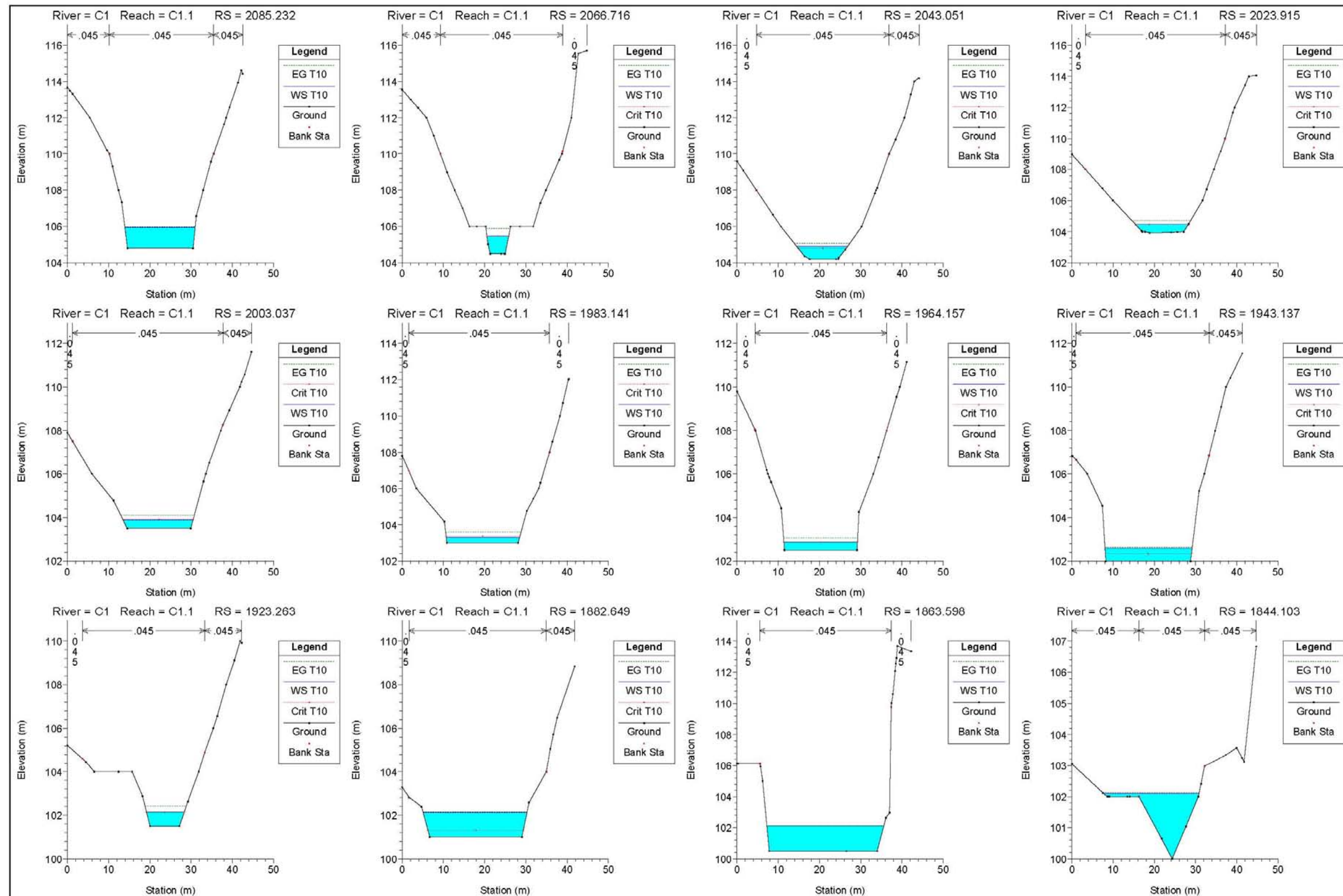


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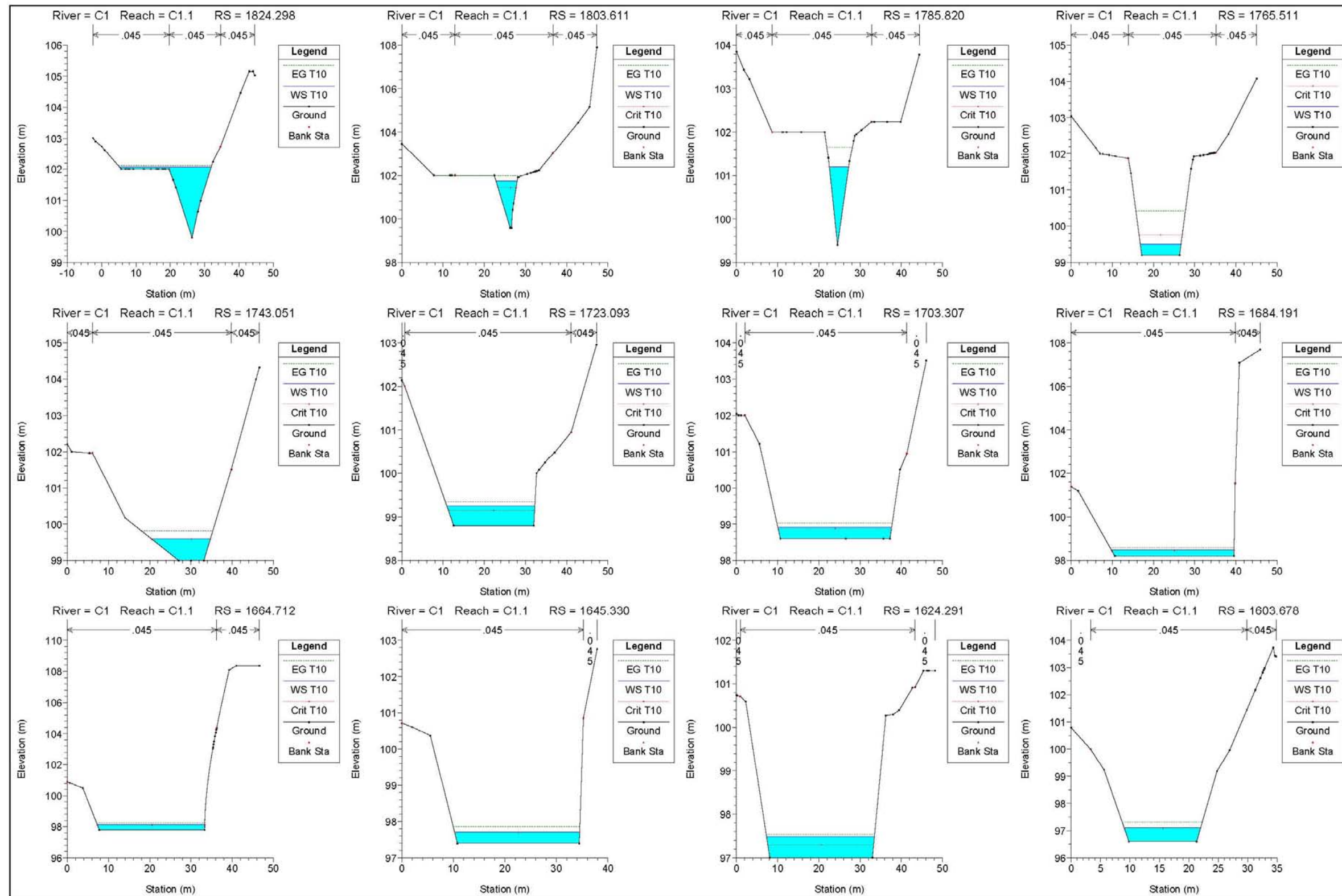




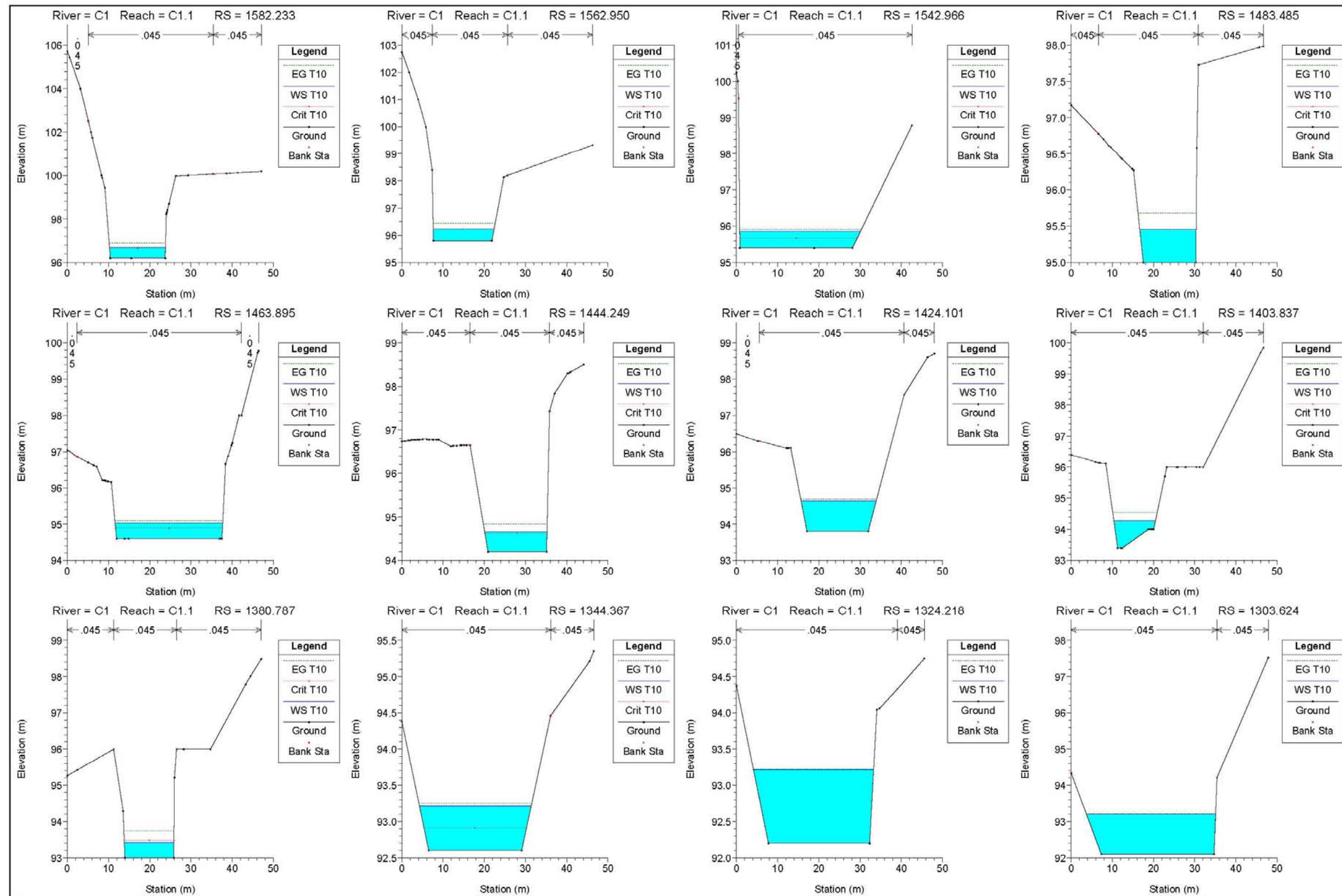
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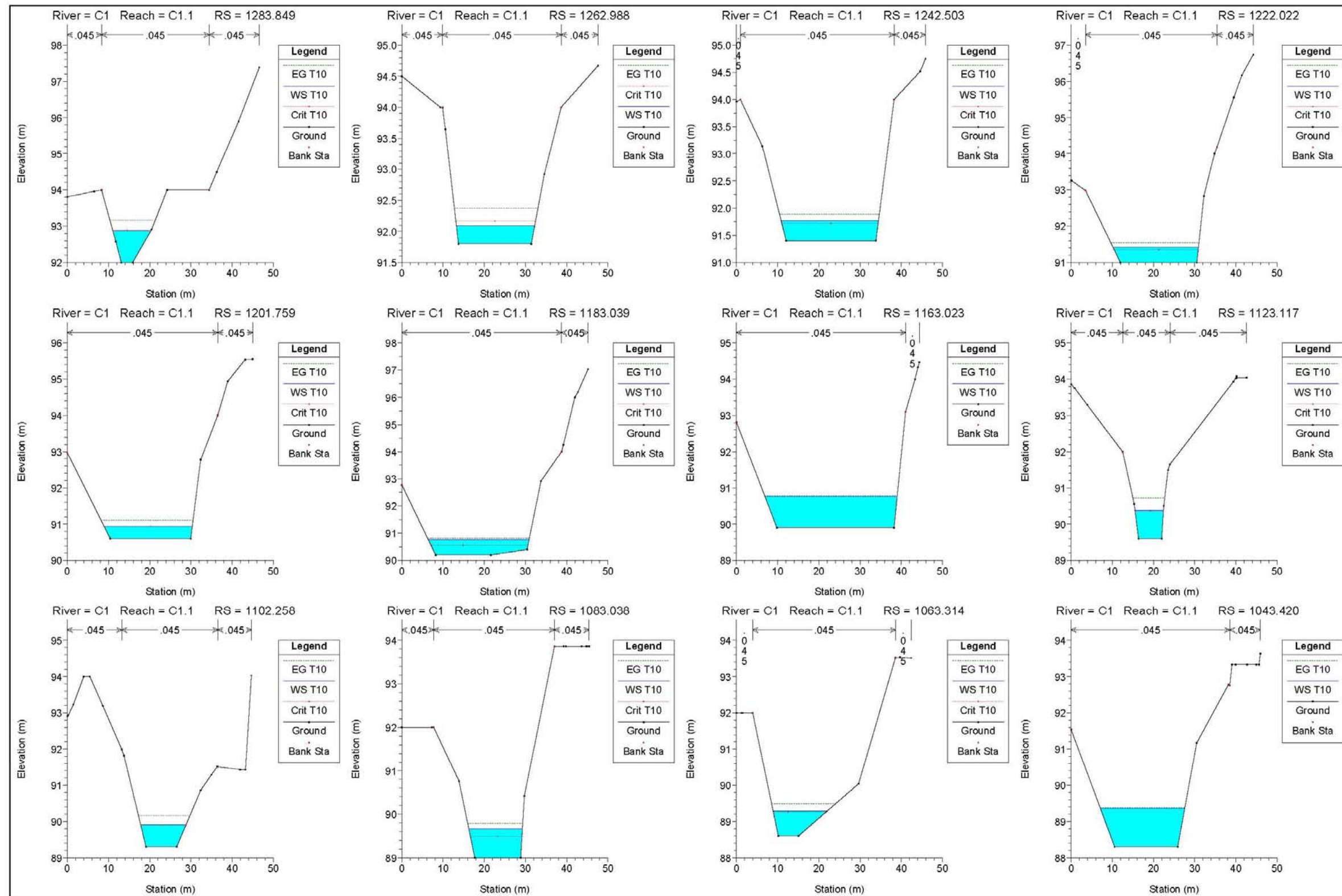


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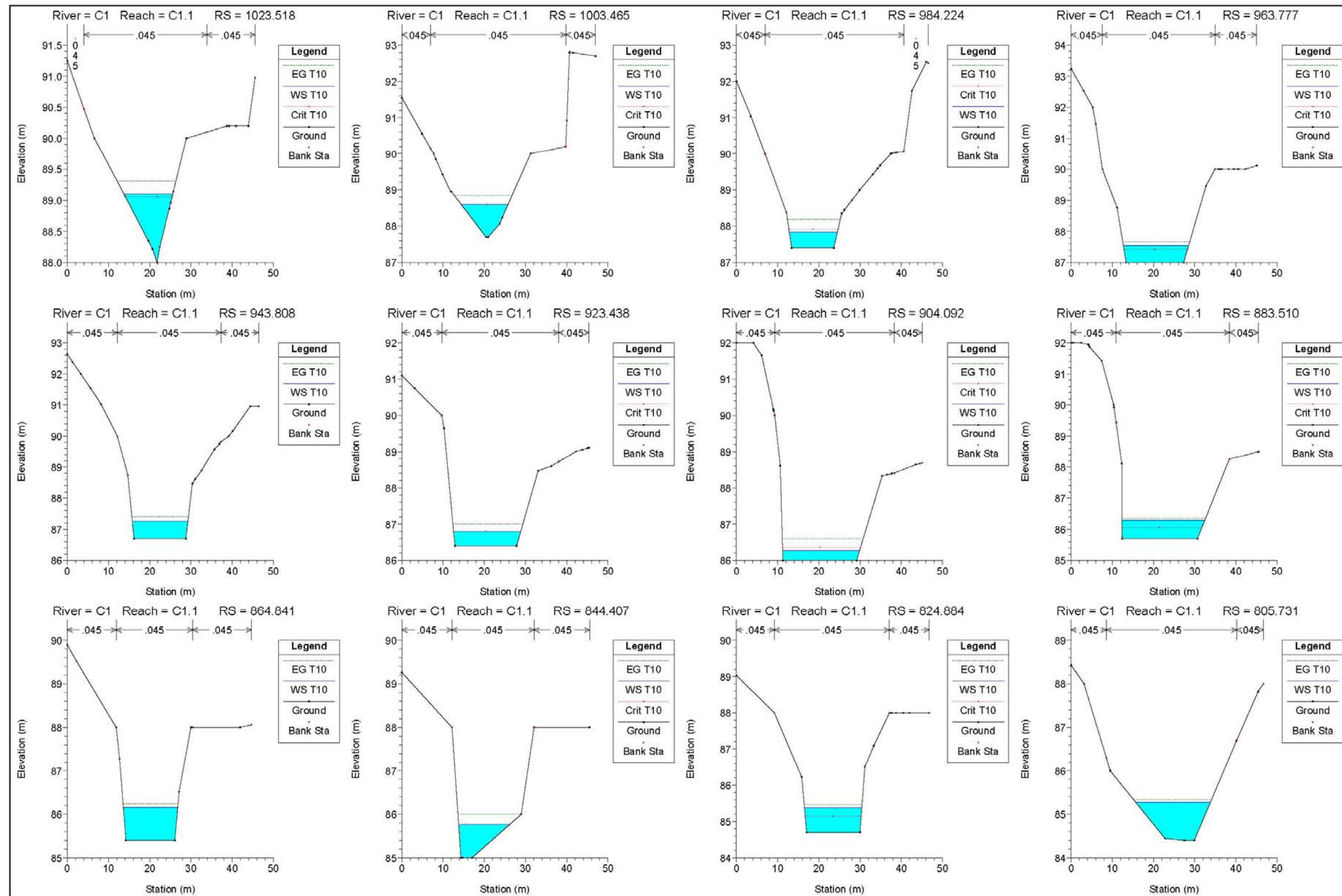


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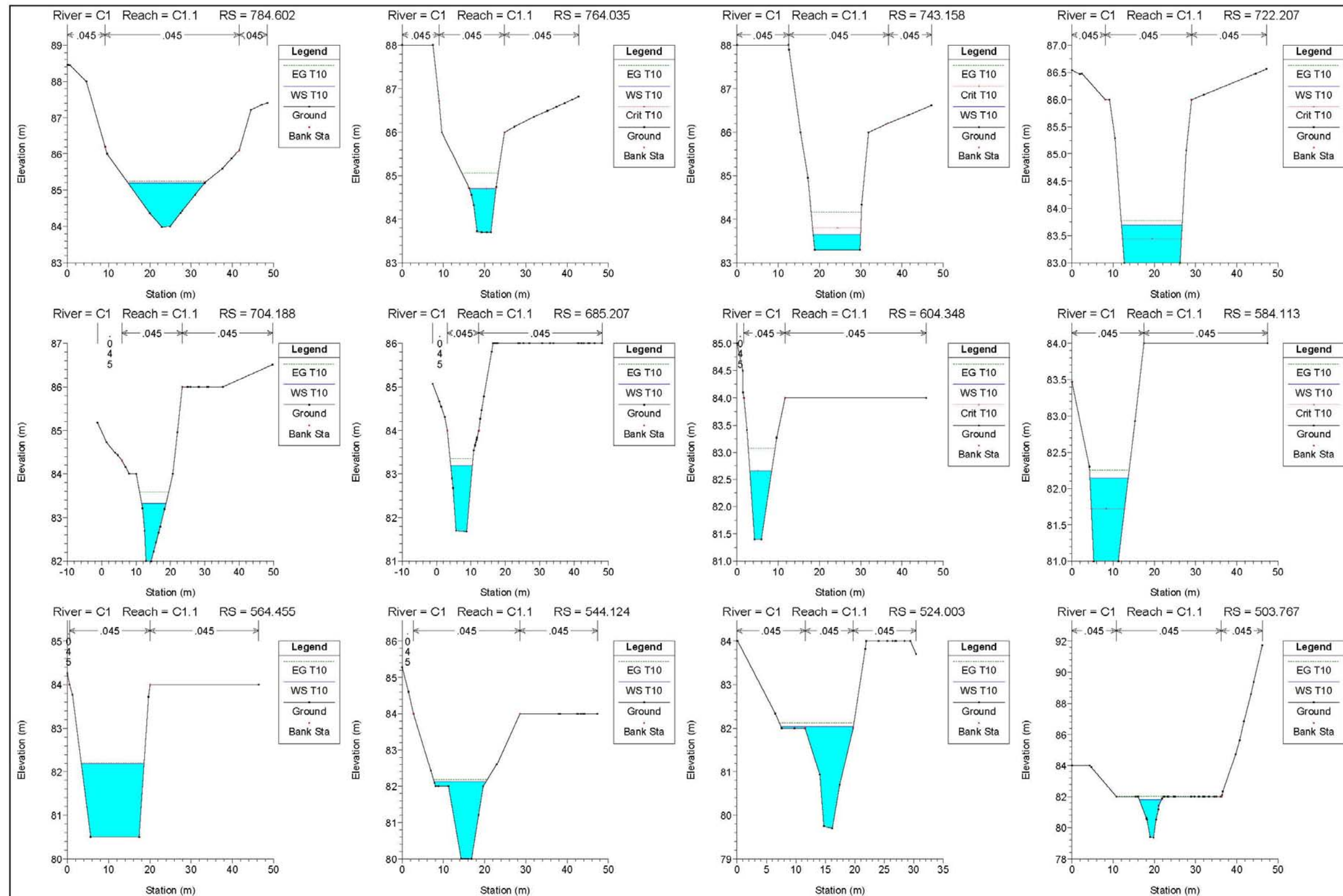


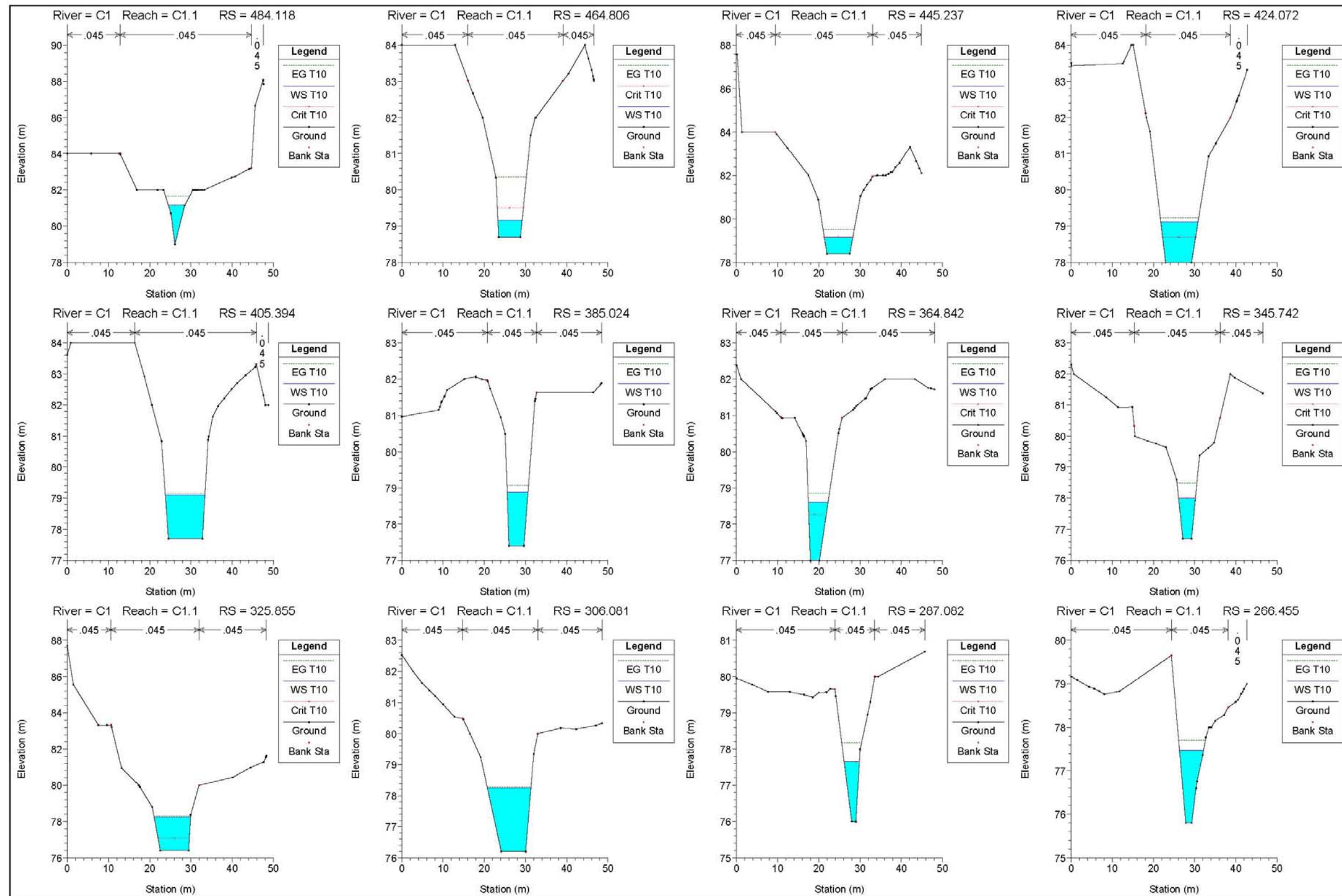


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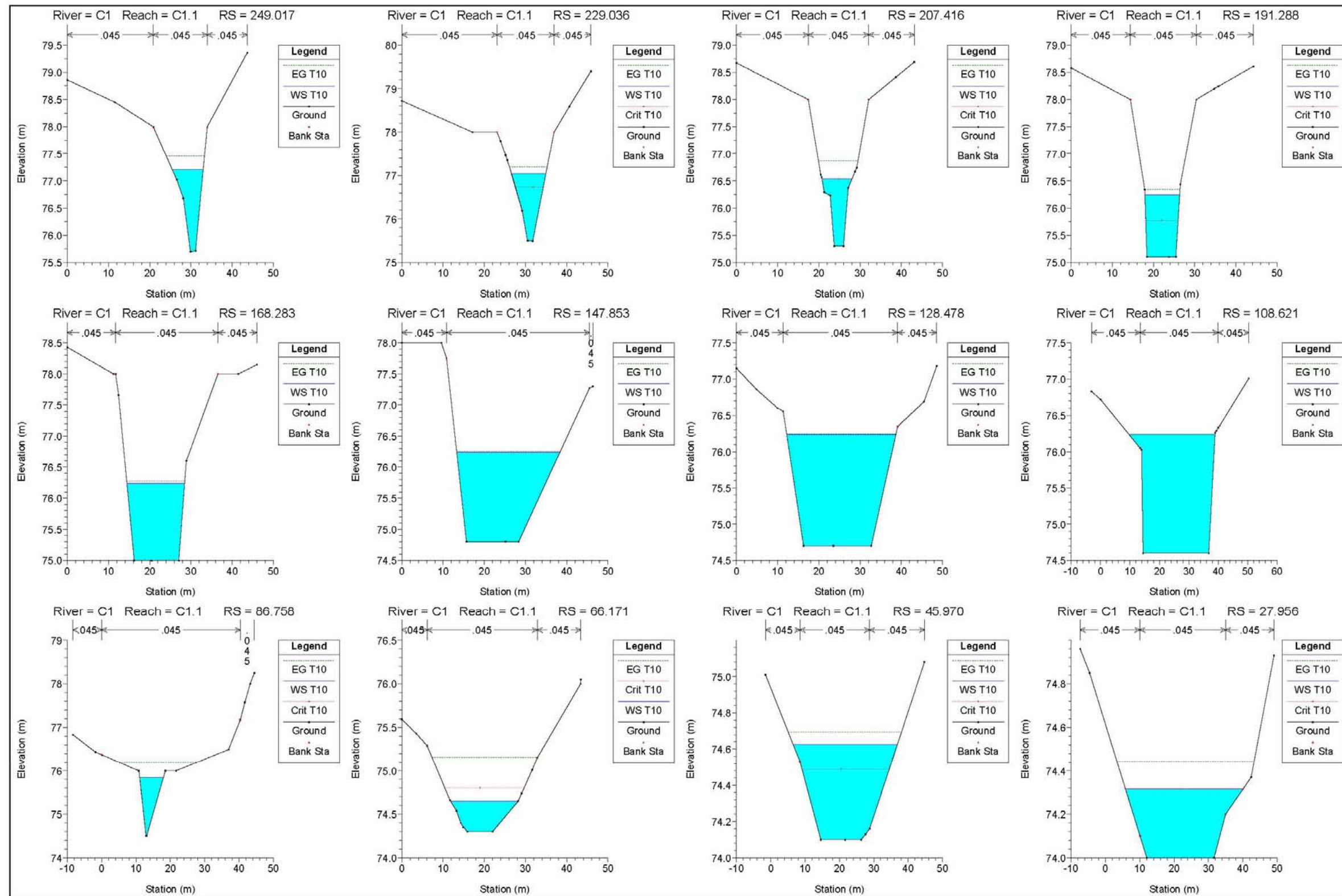


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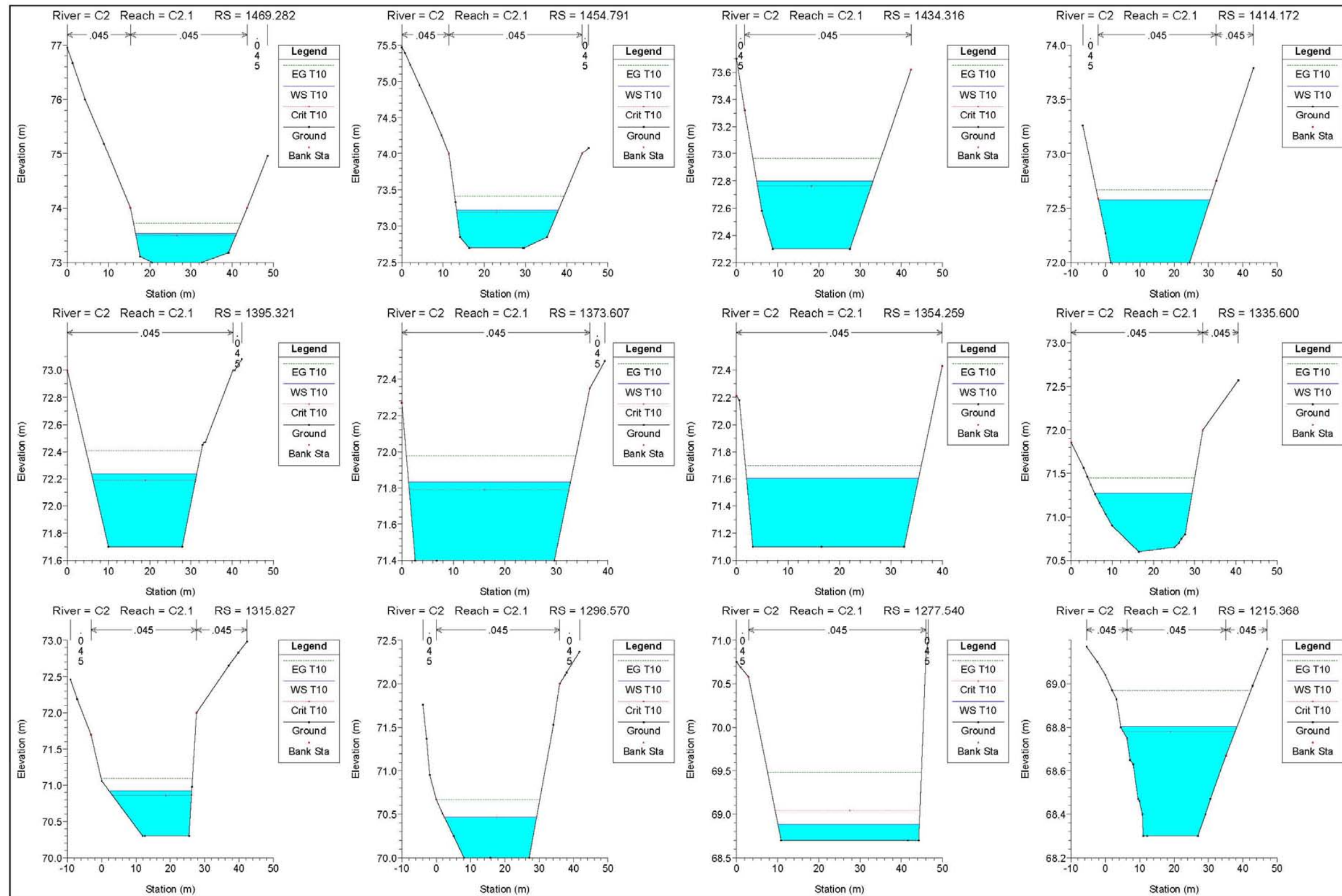




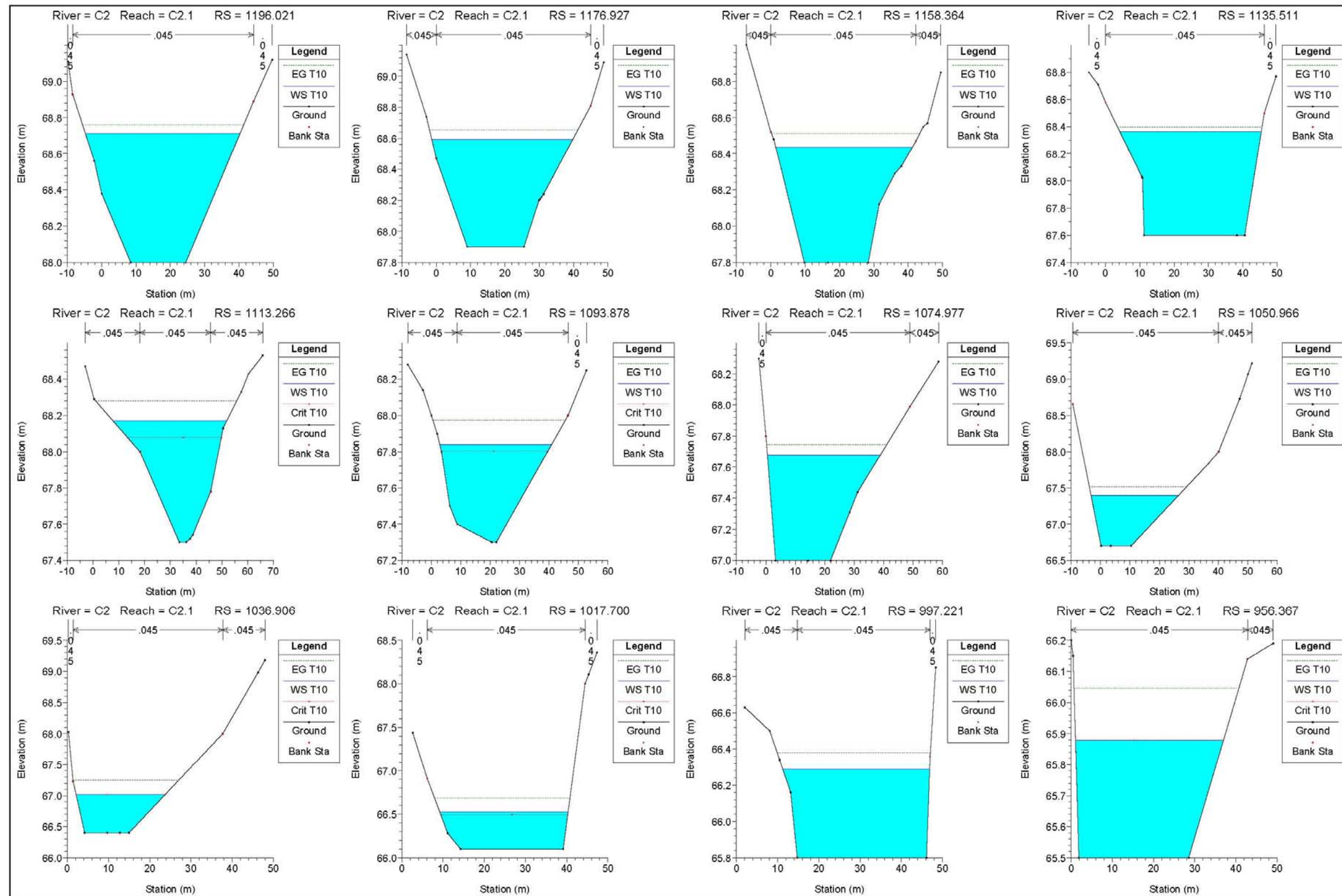
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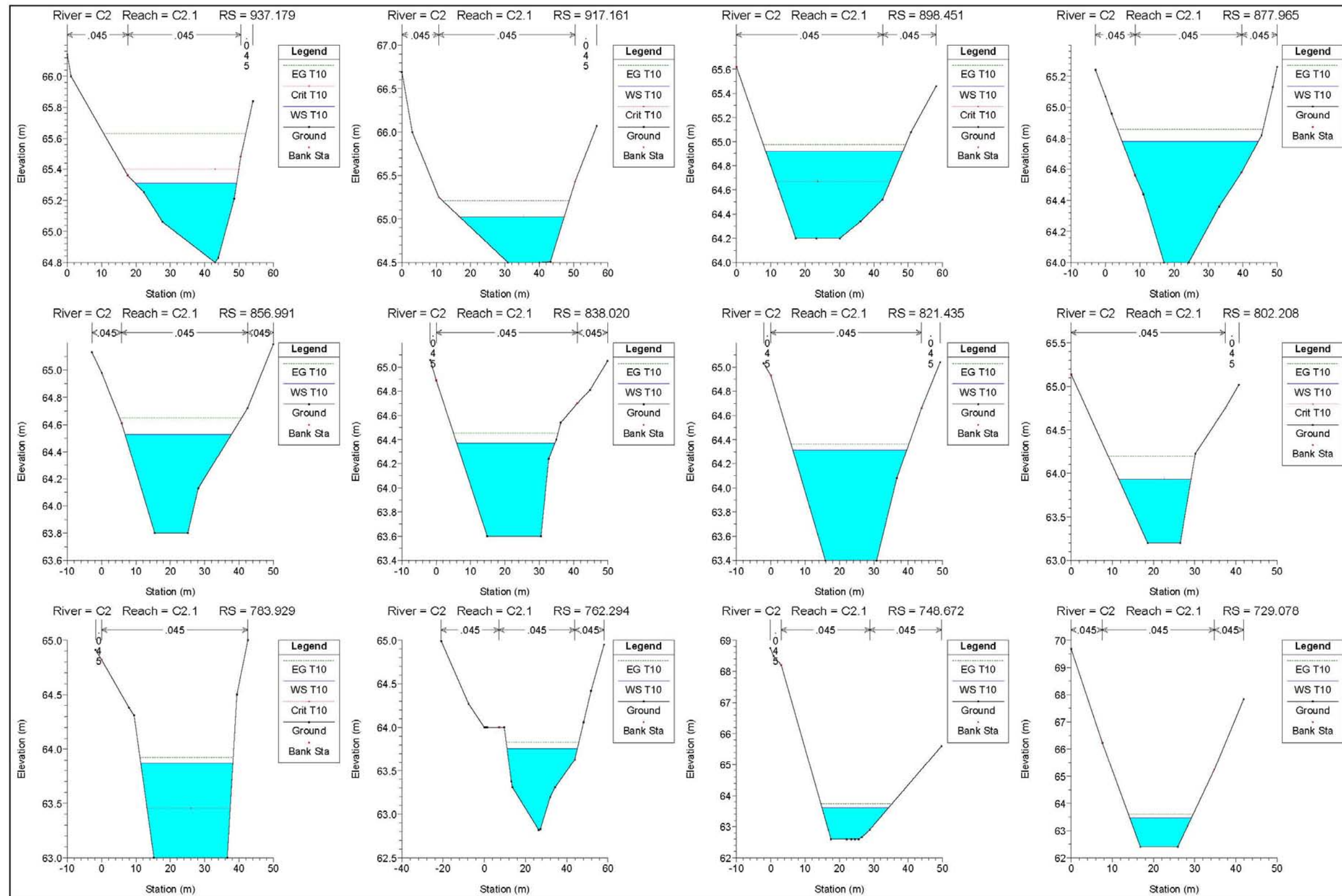
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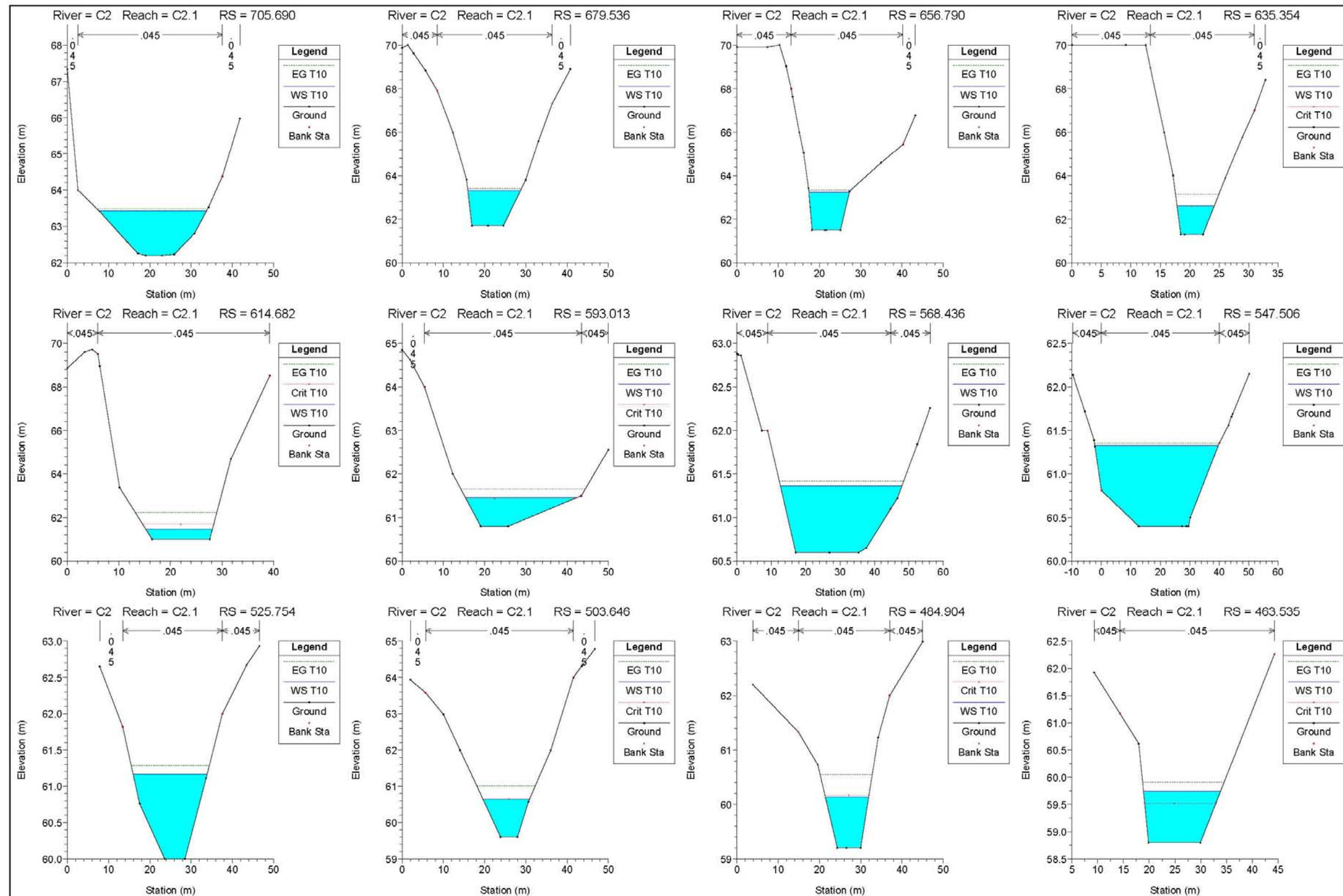
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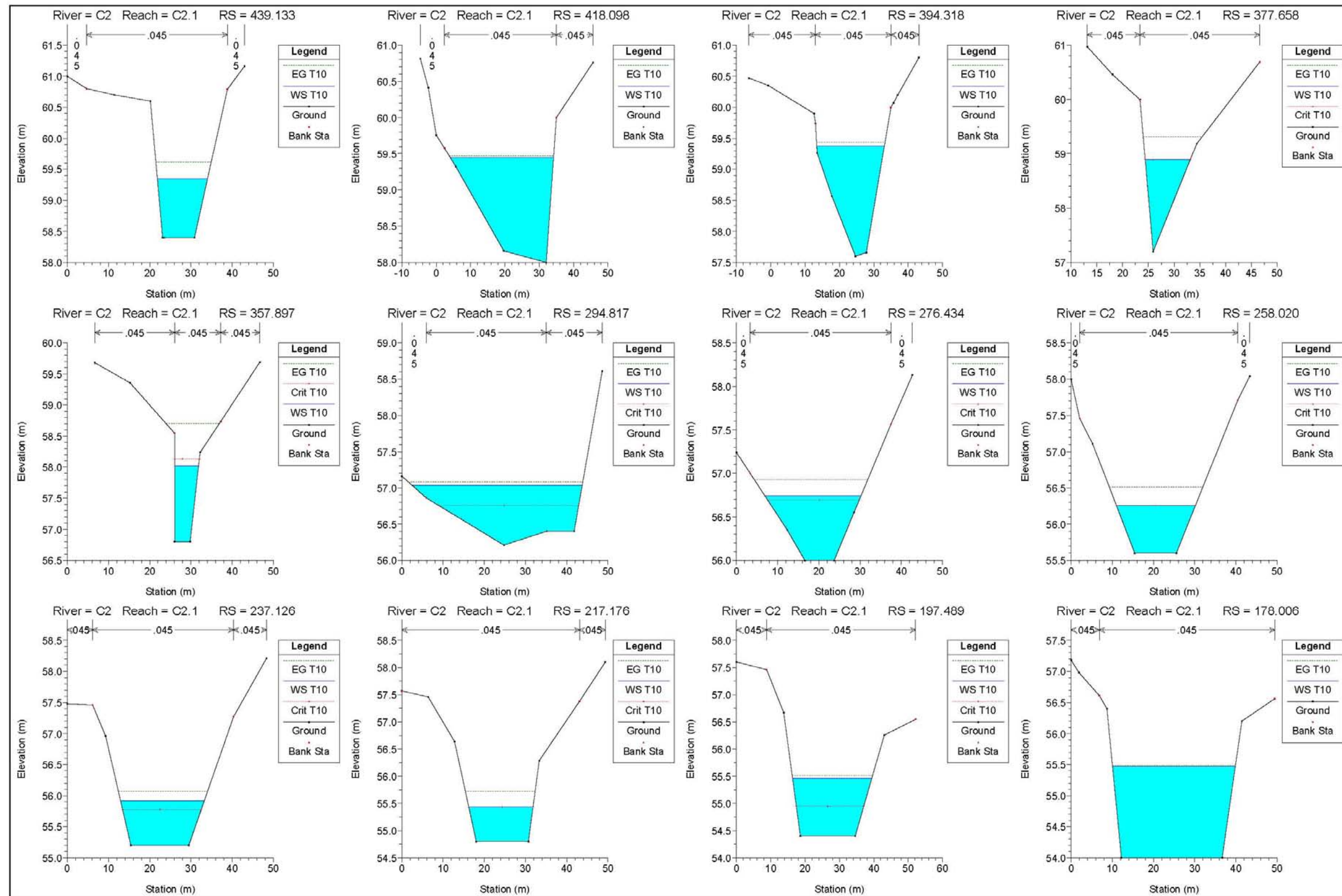


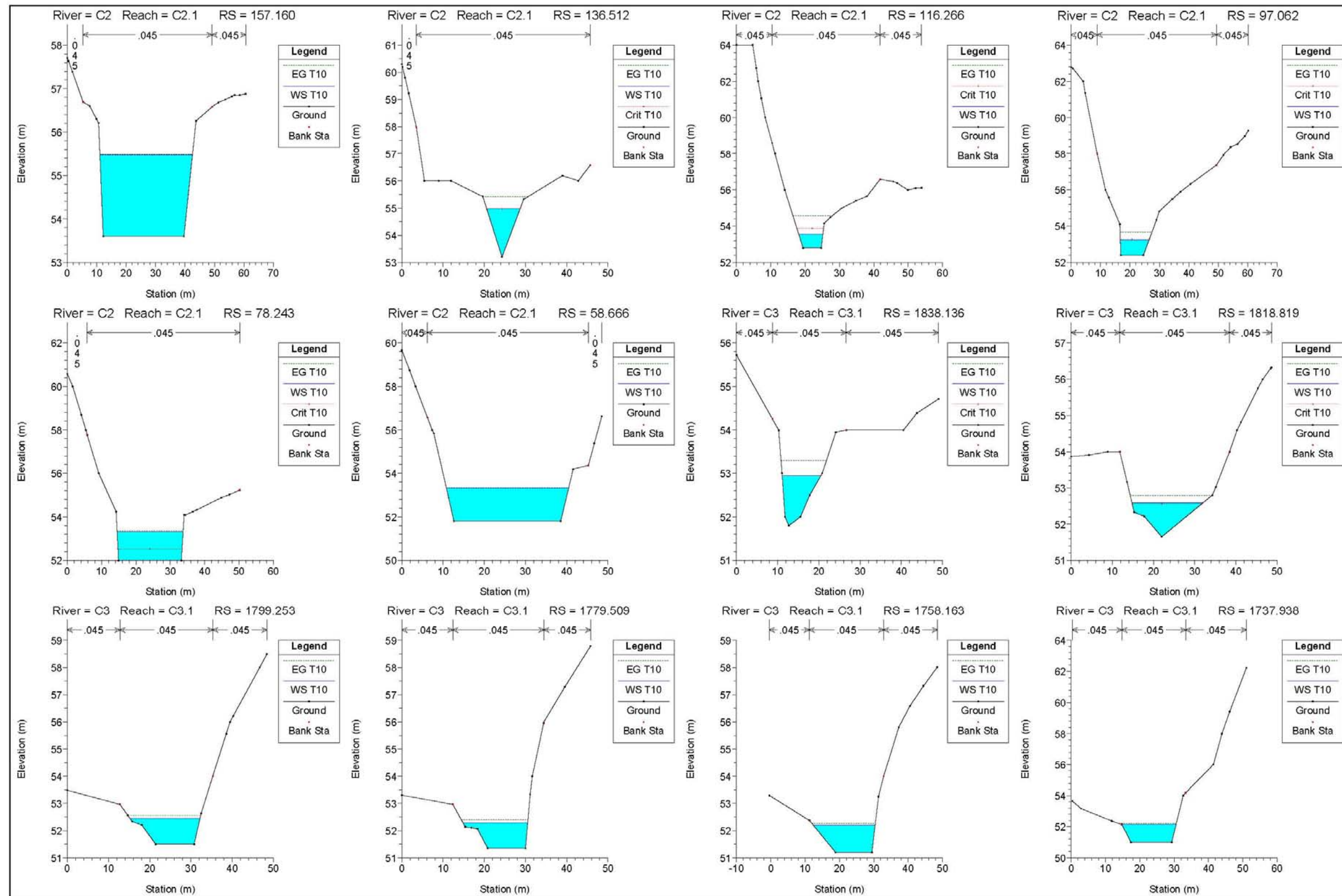
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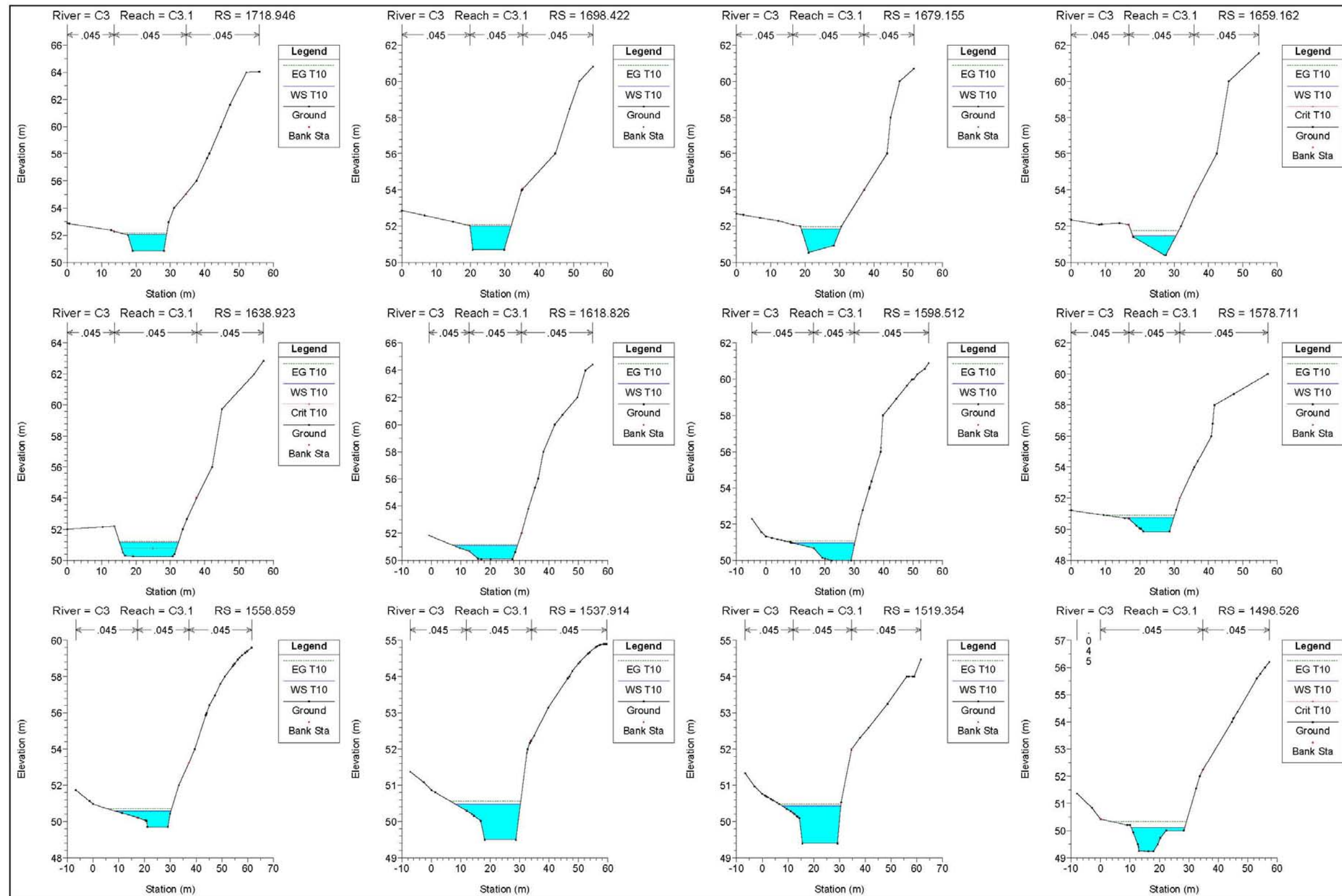


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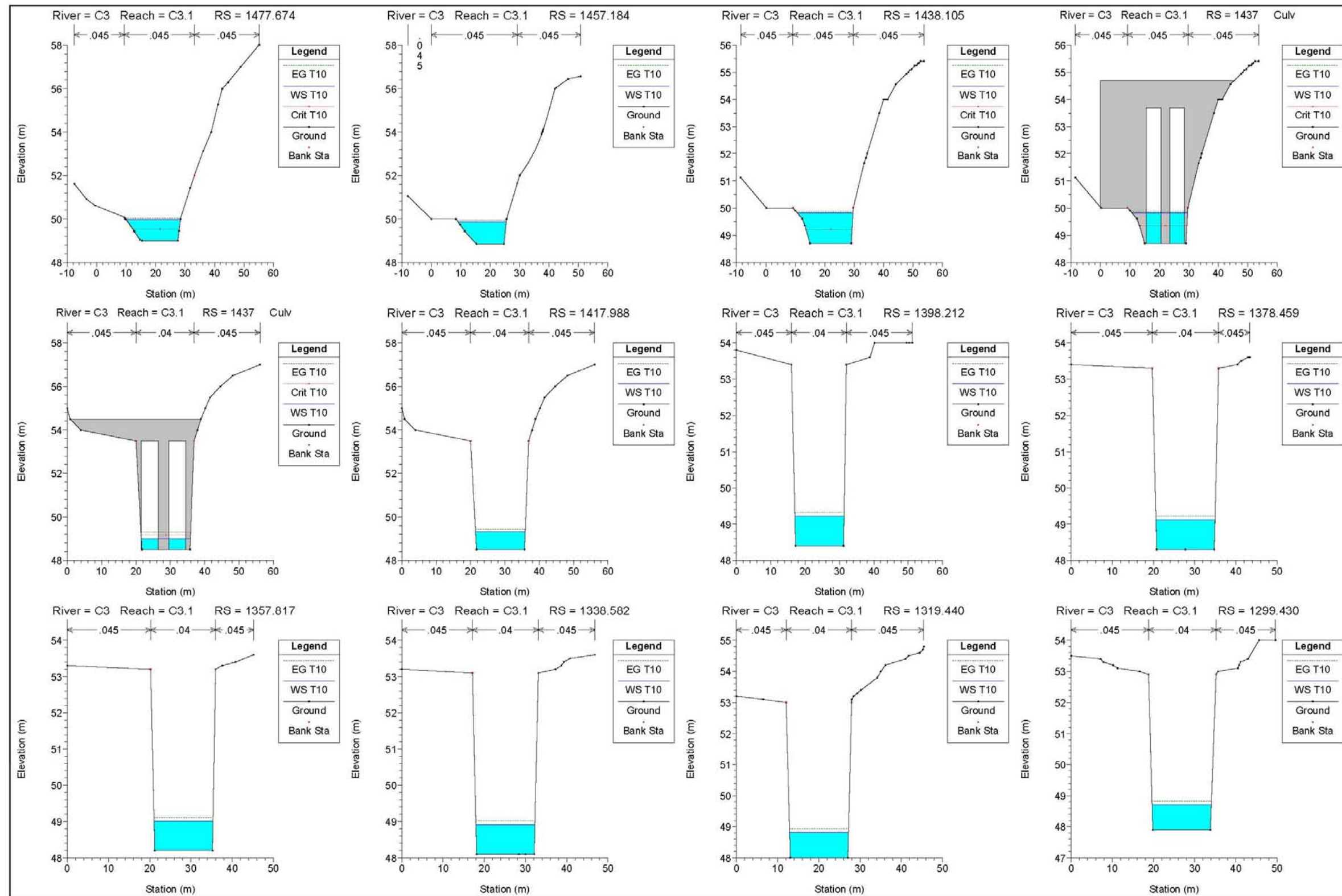


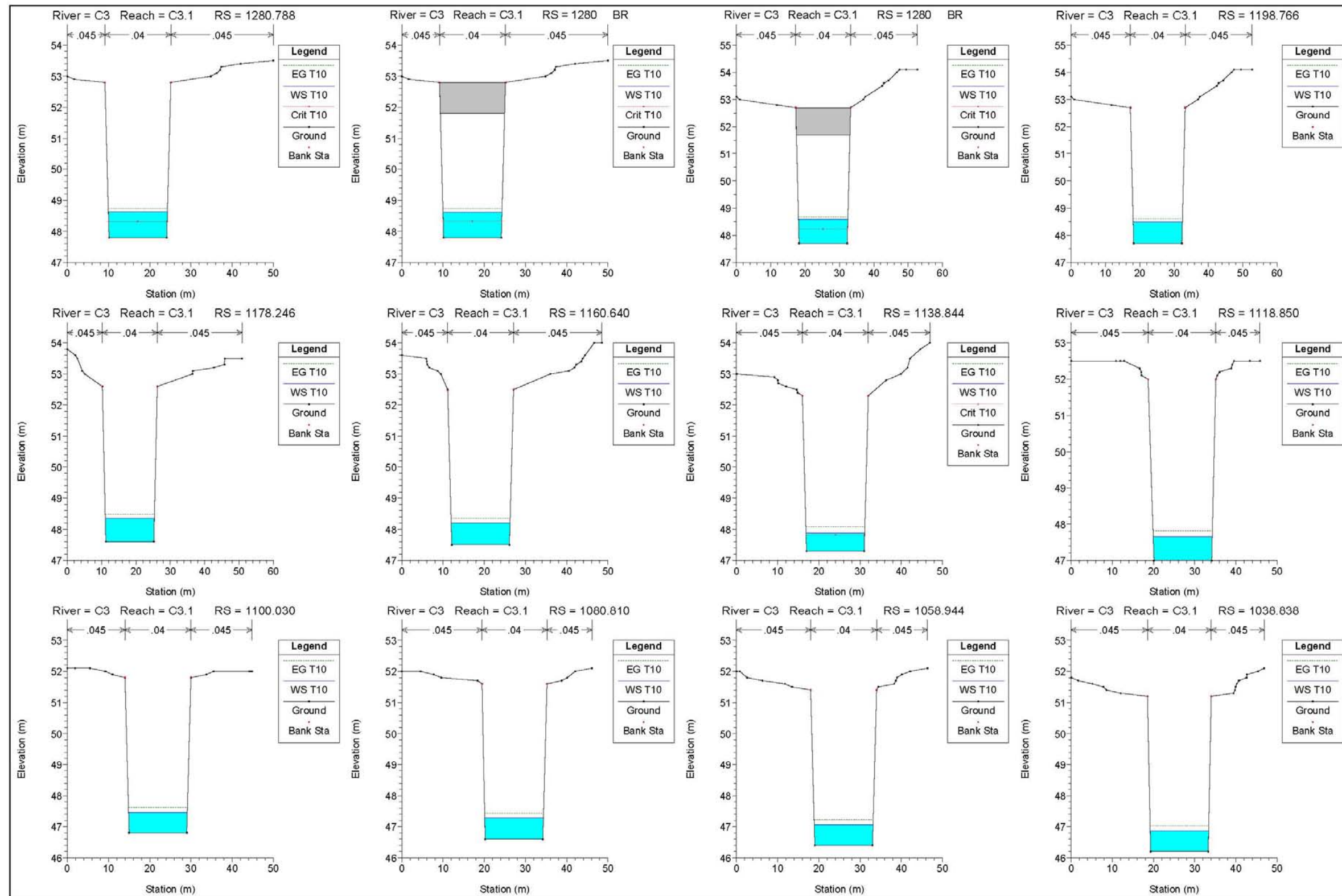


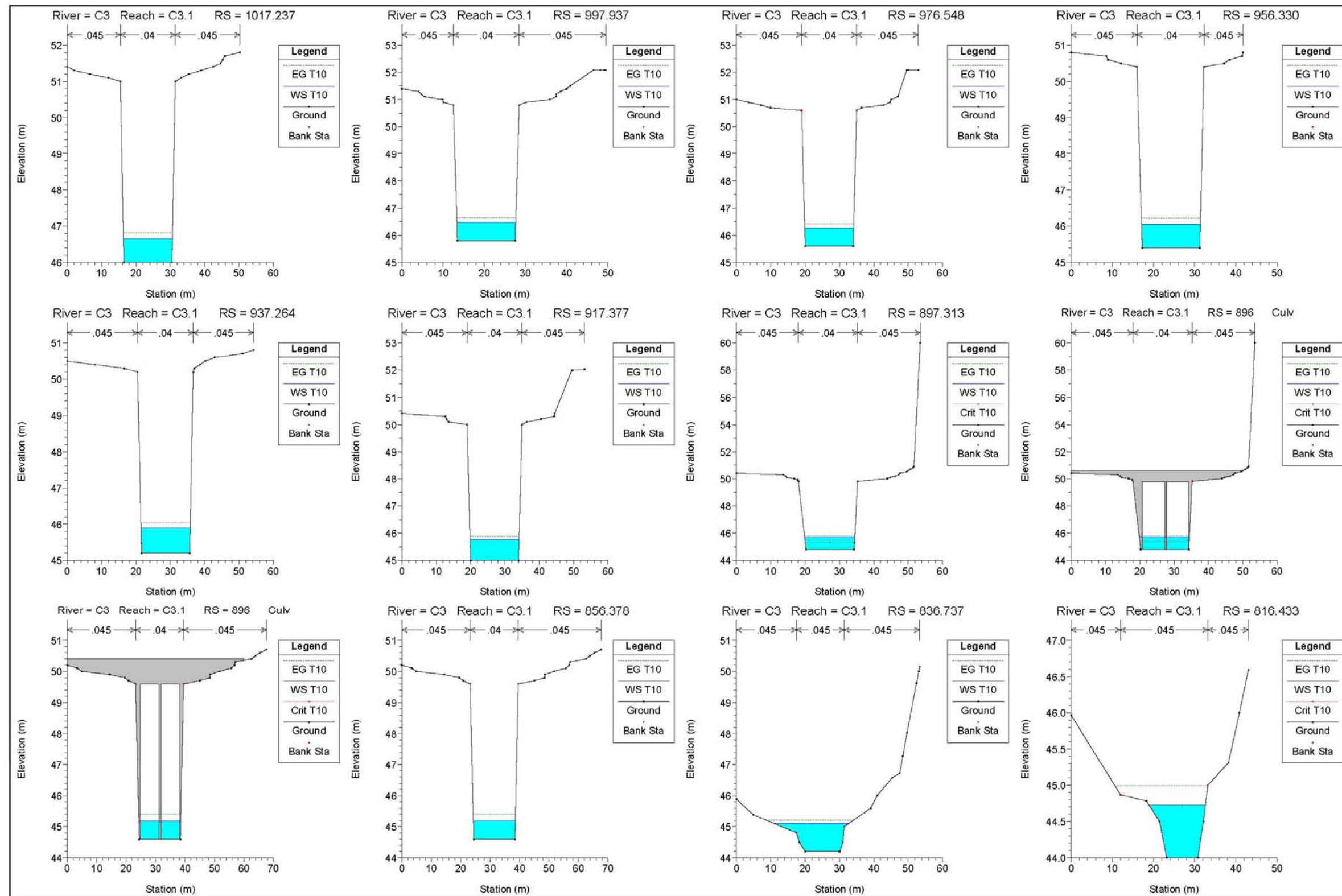


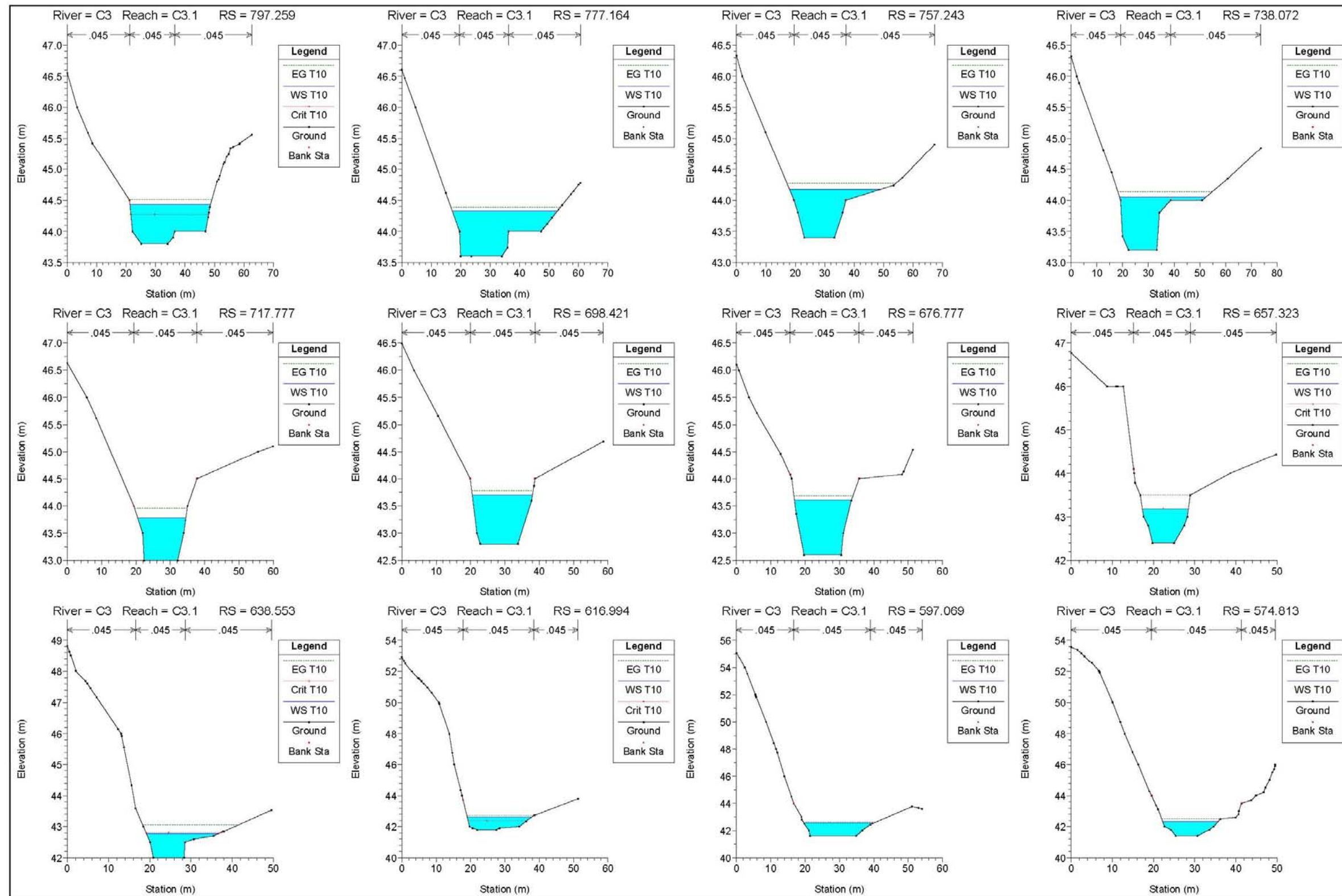


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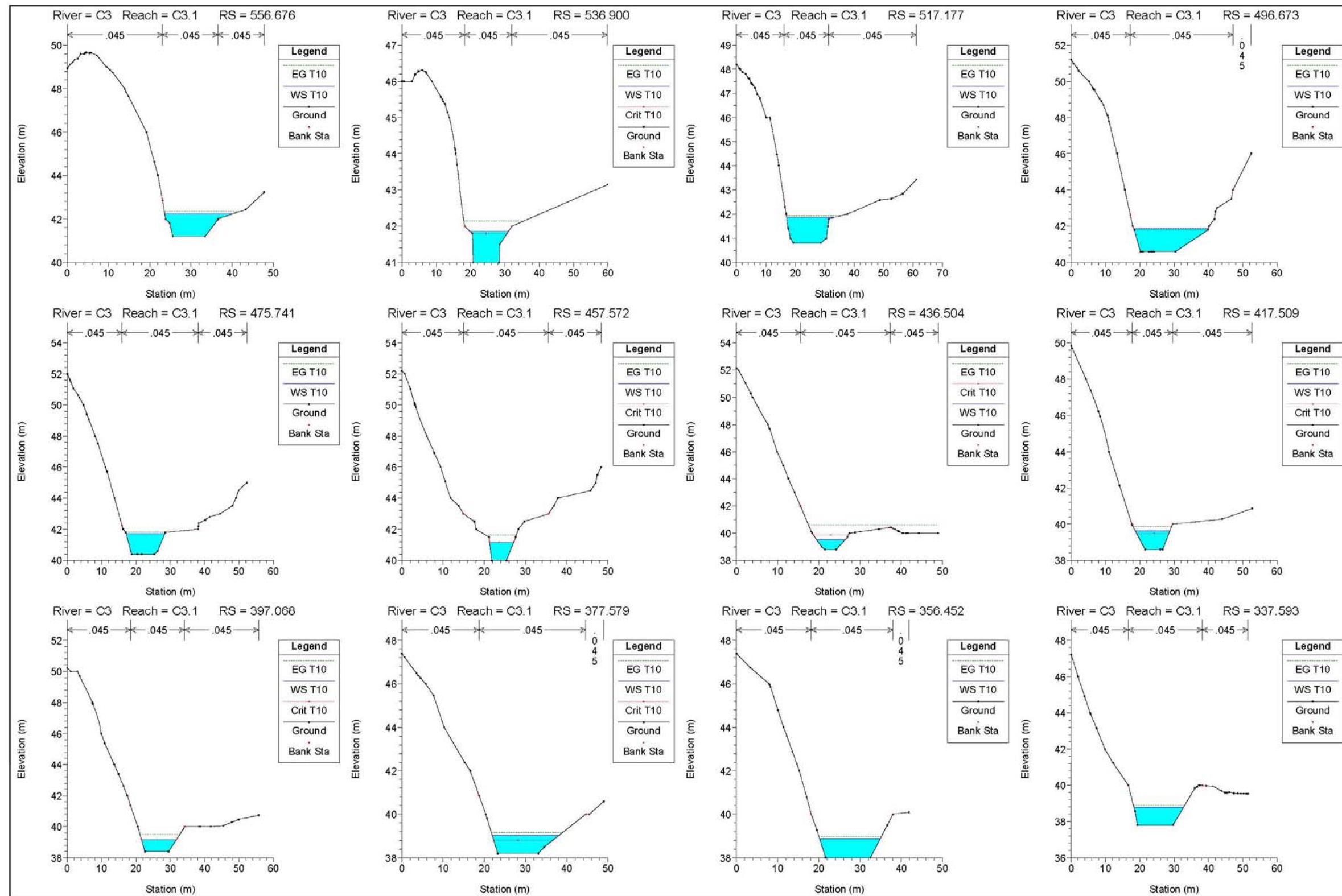


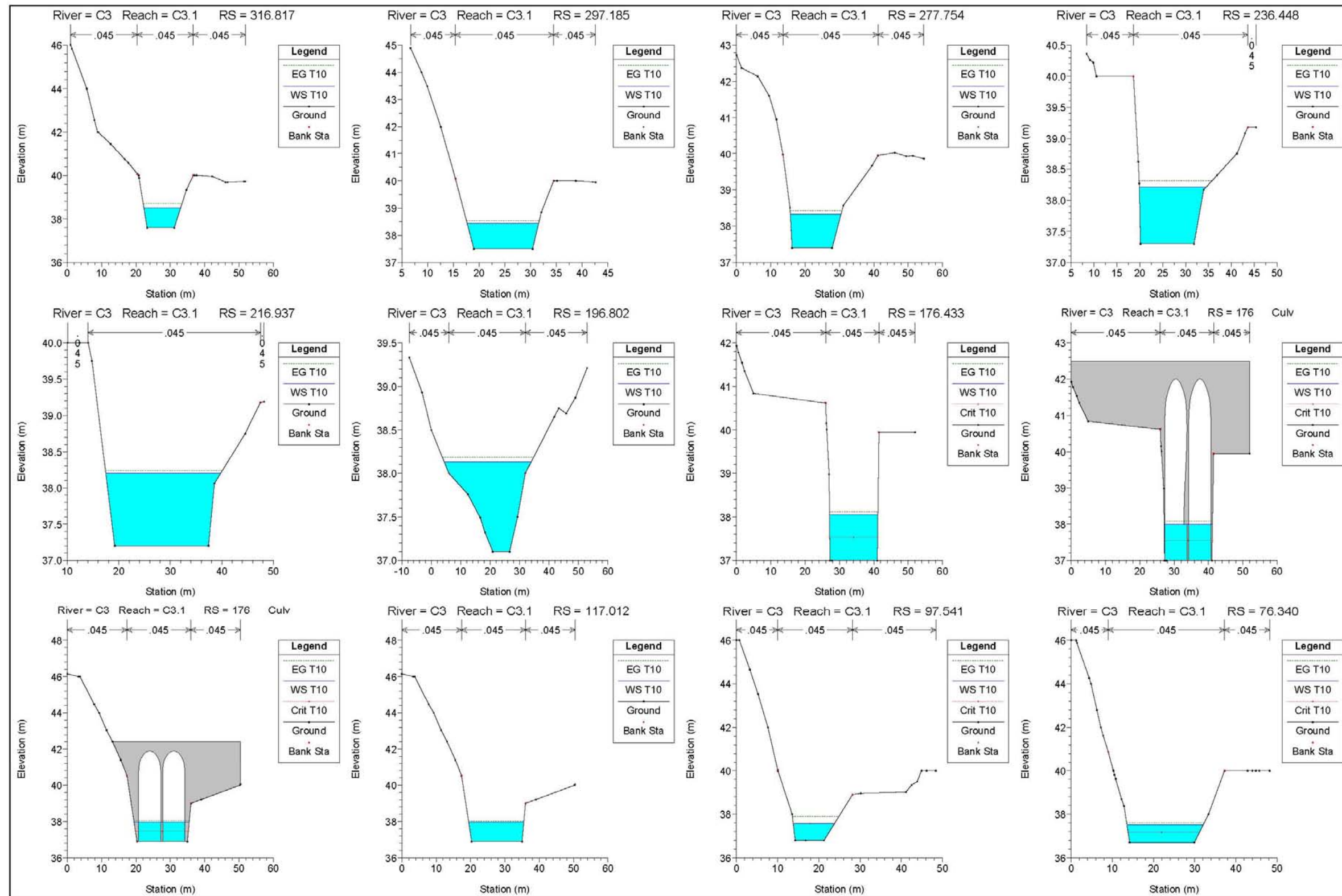


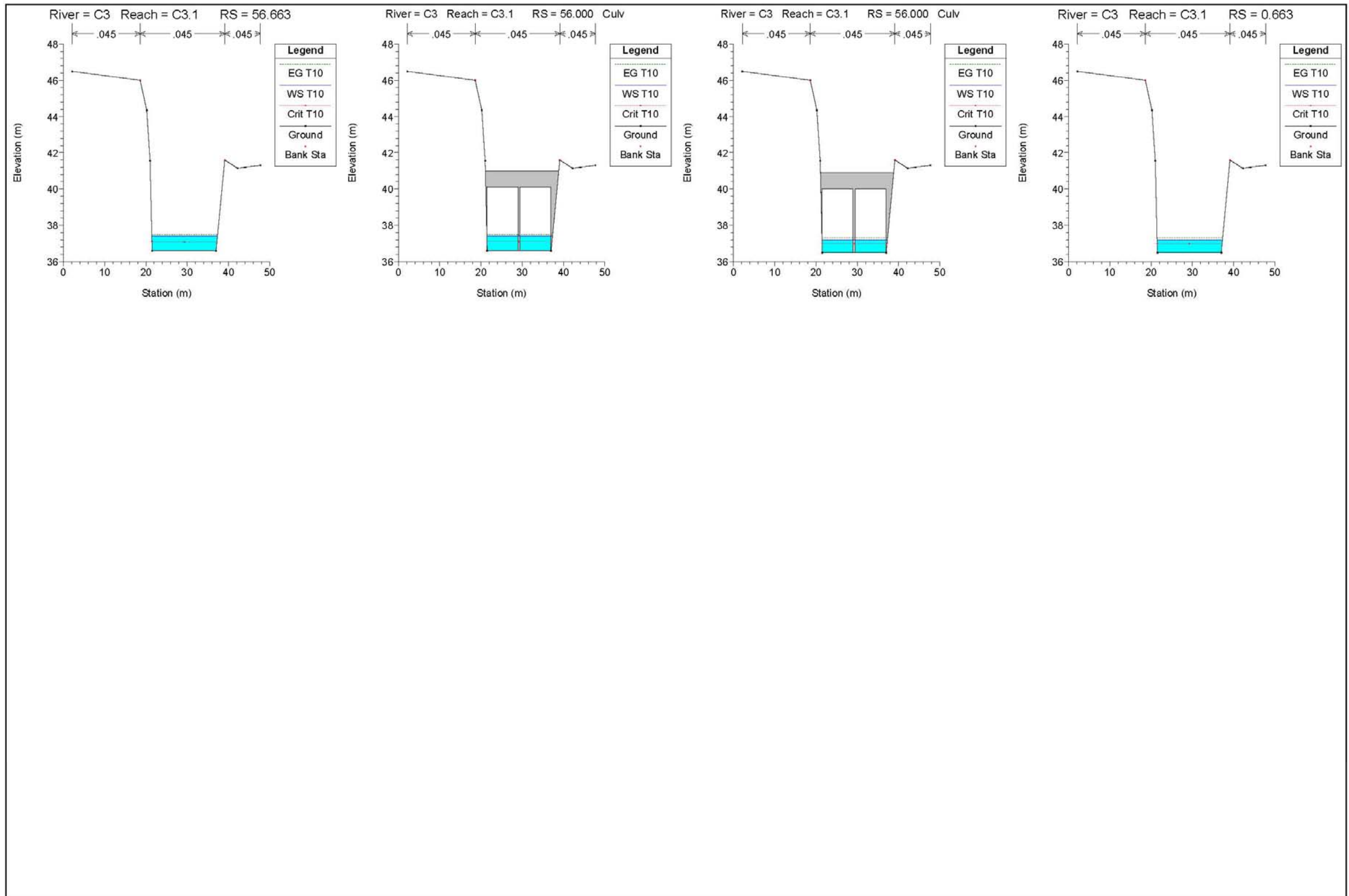




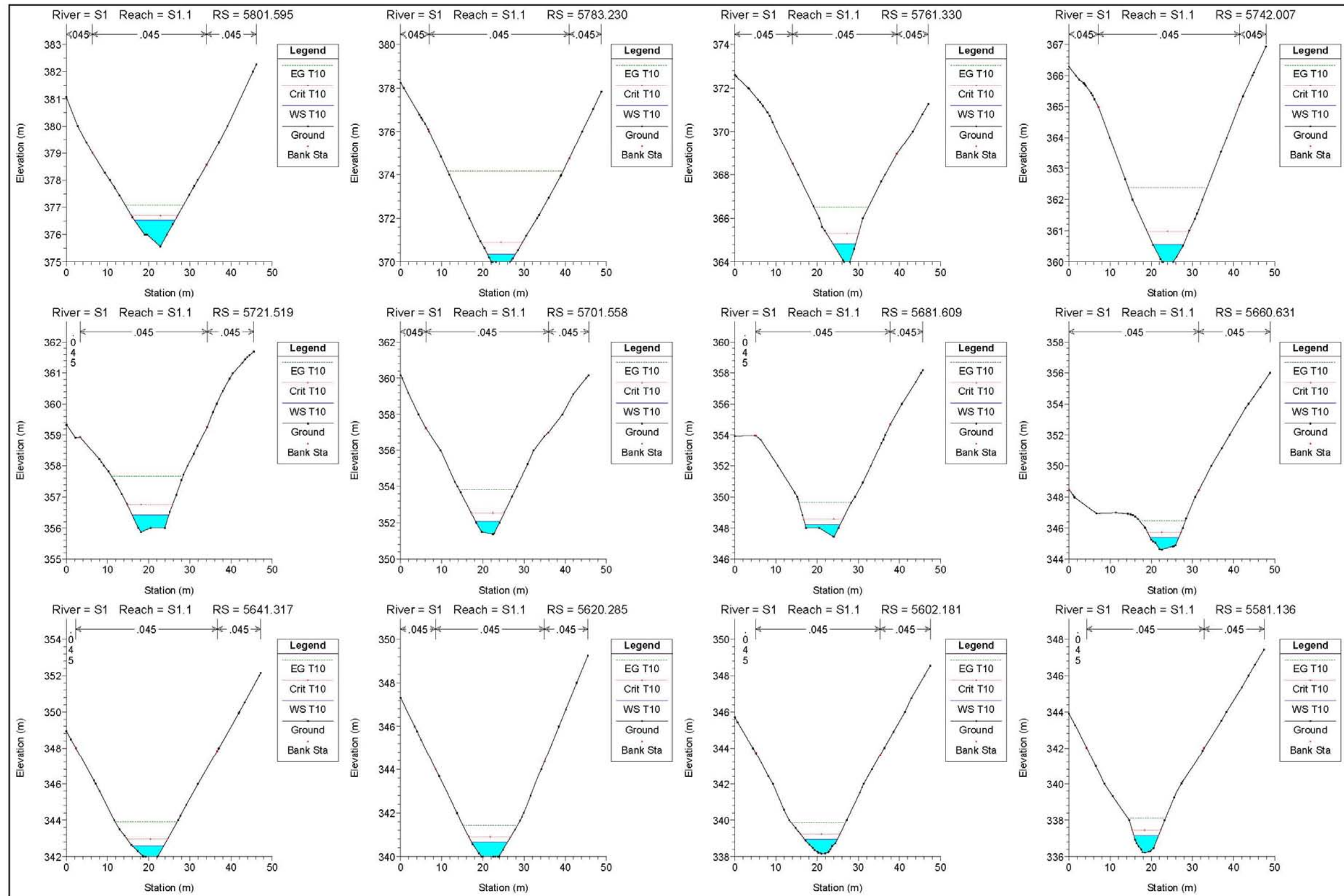
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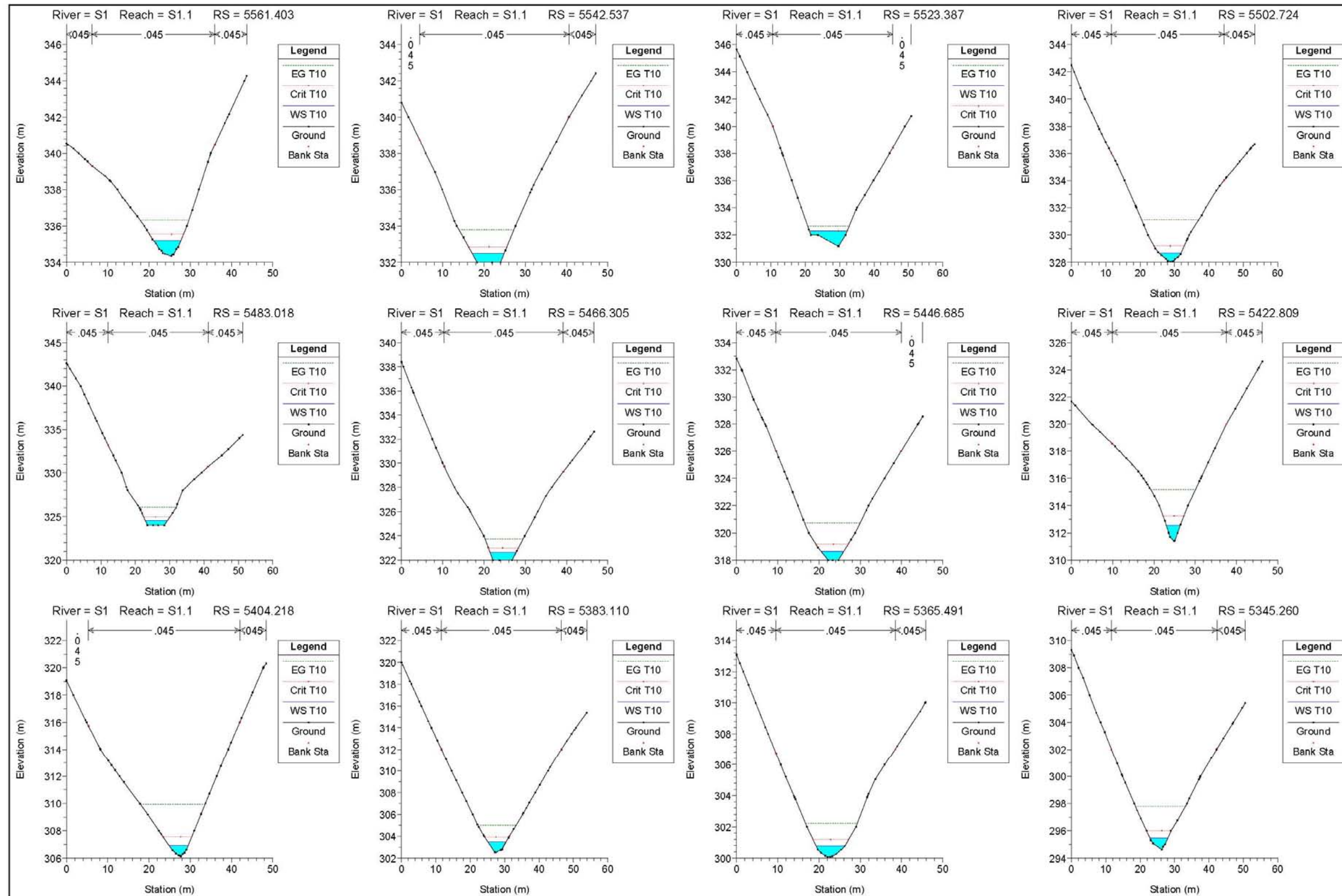


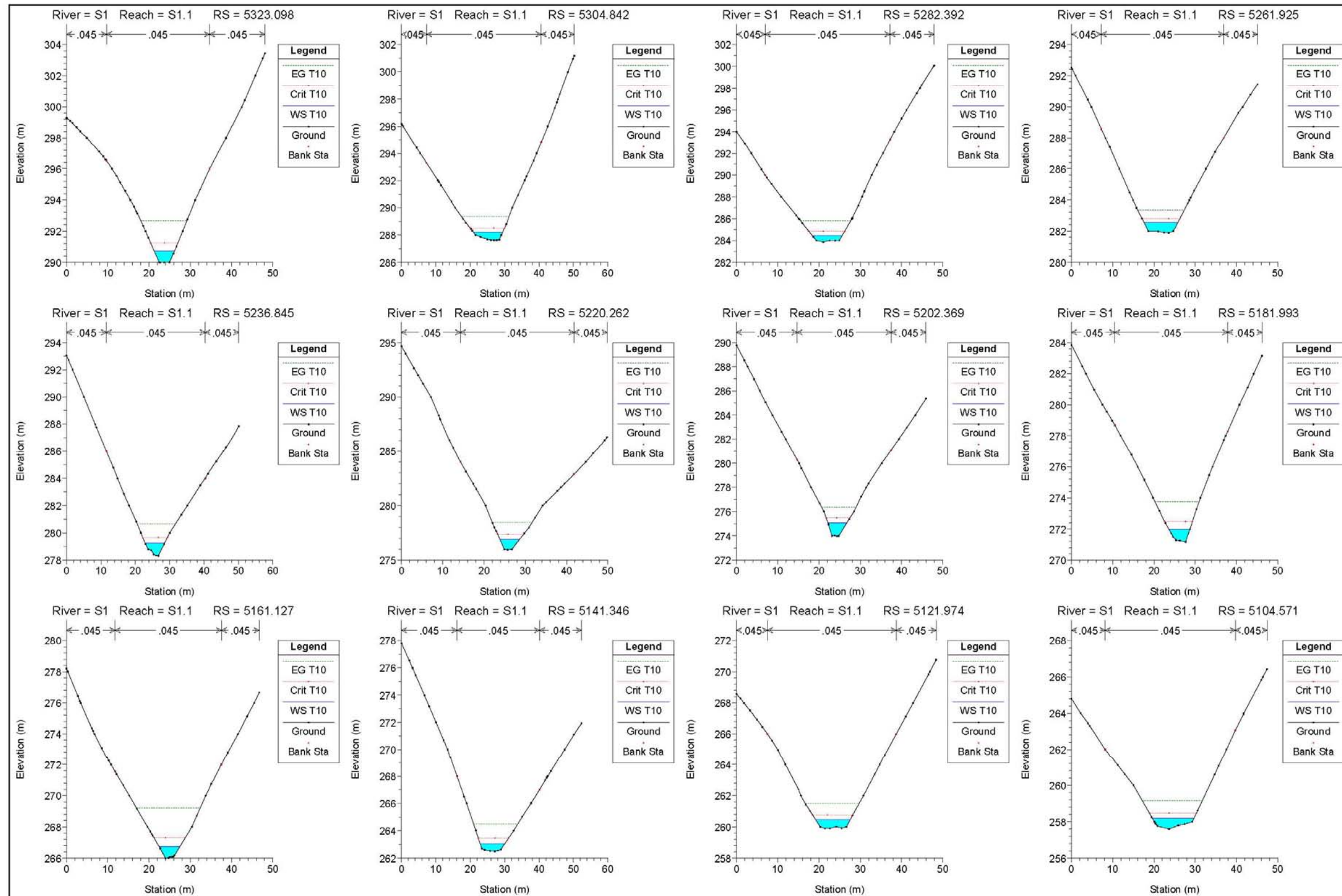




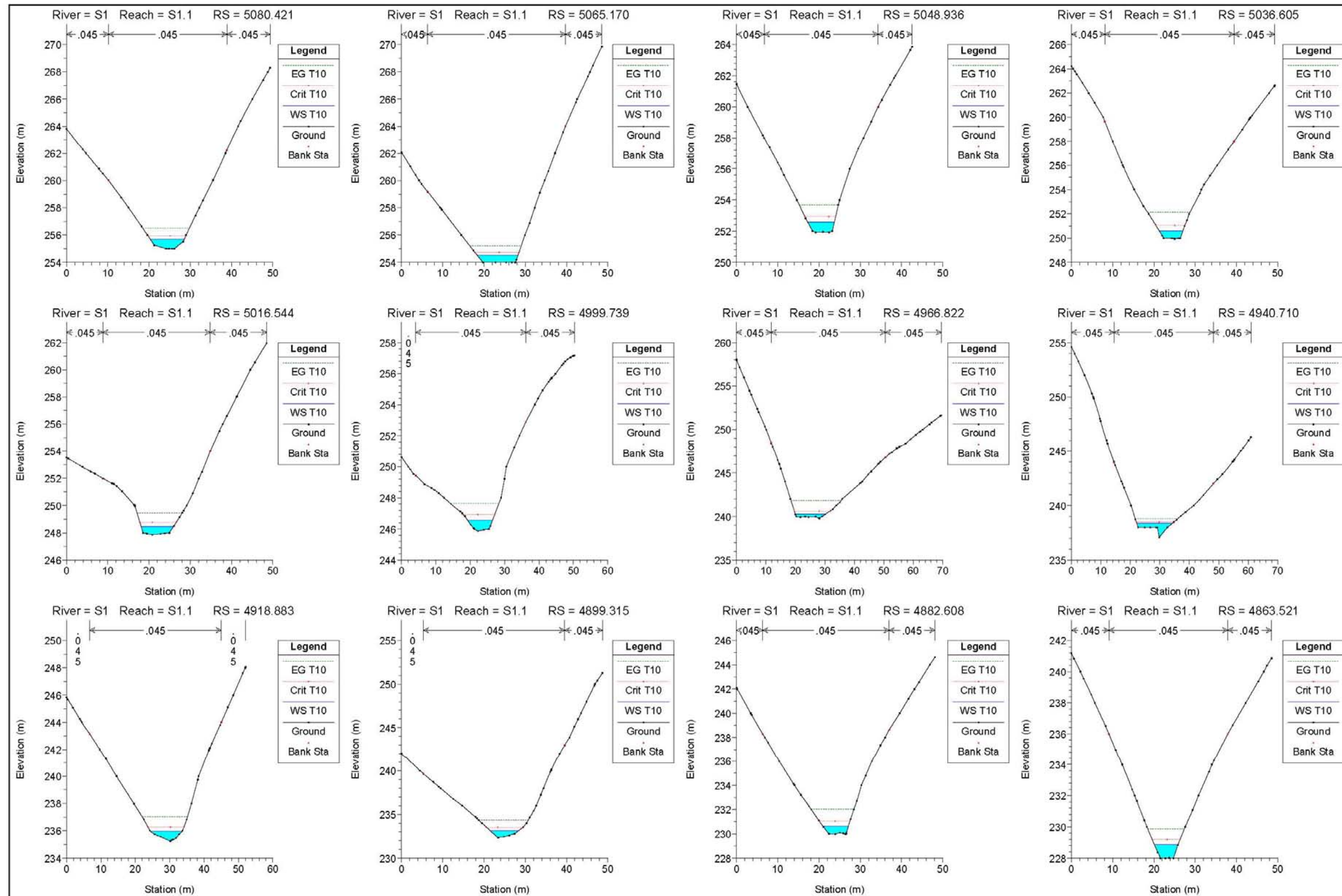
3.1.3.2.- Arroyo de La Salud



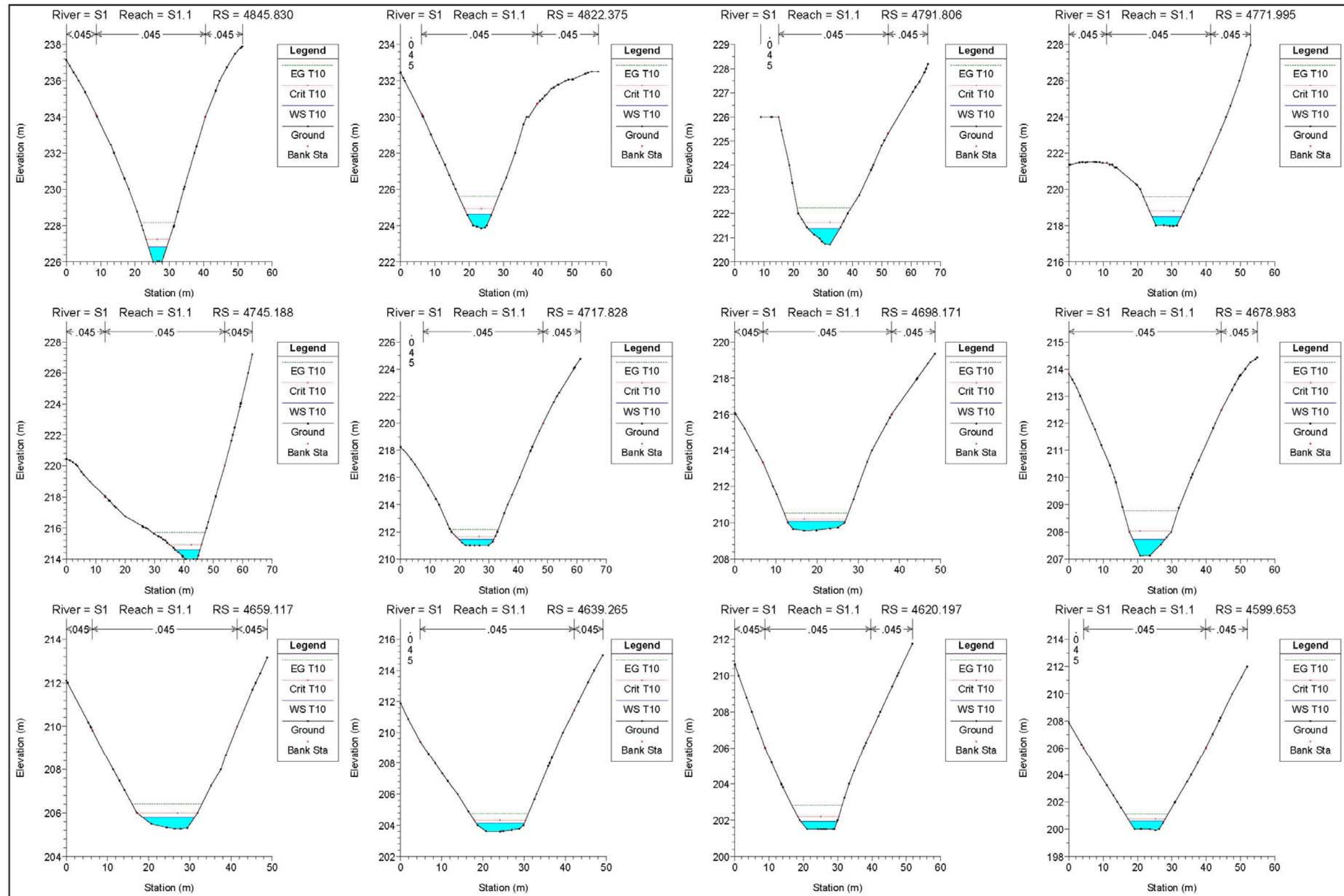


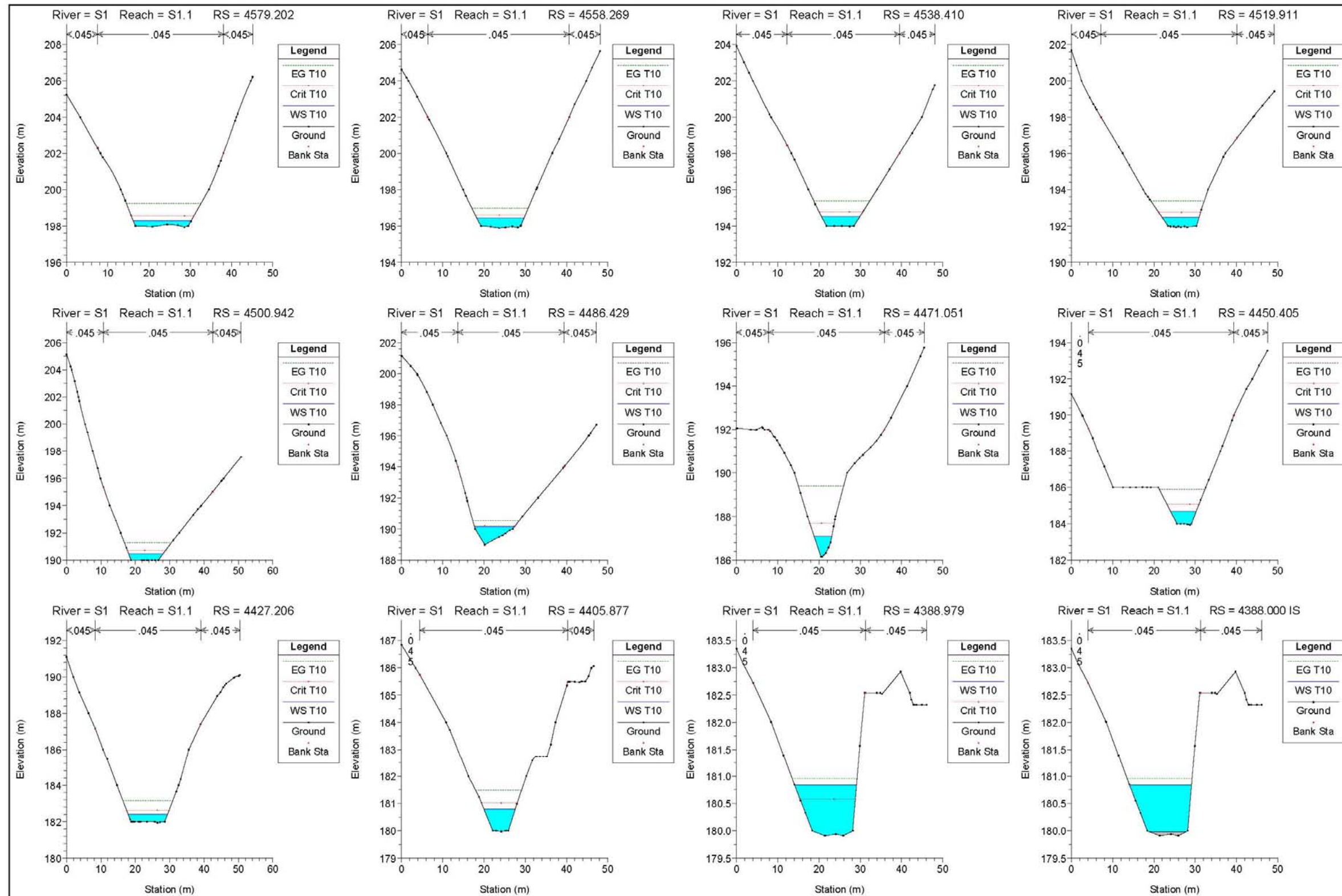


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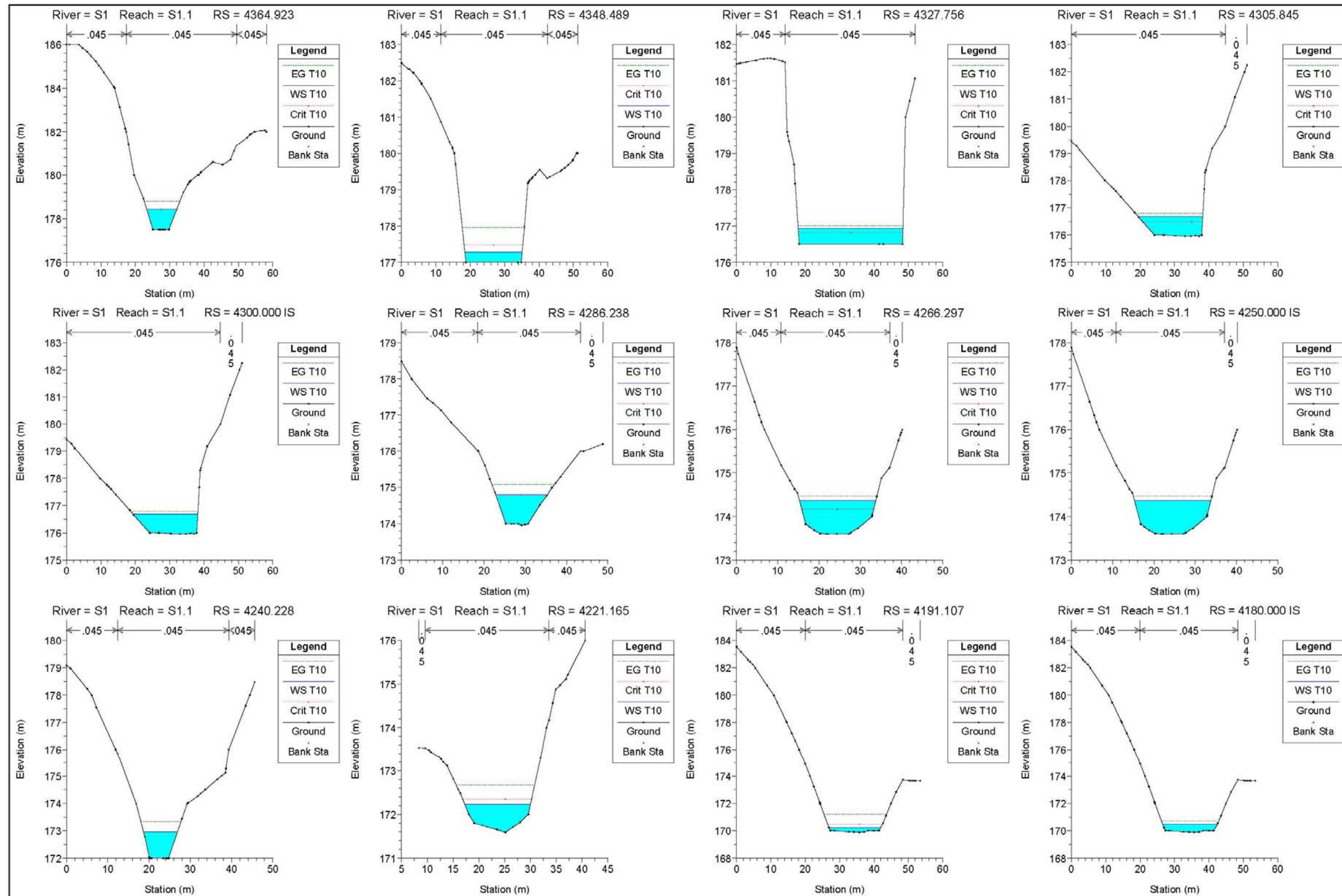


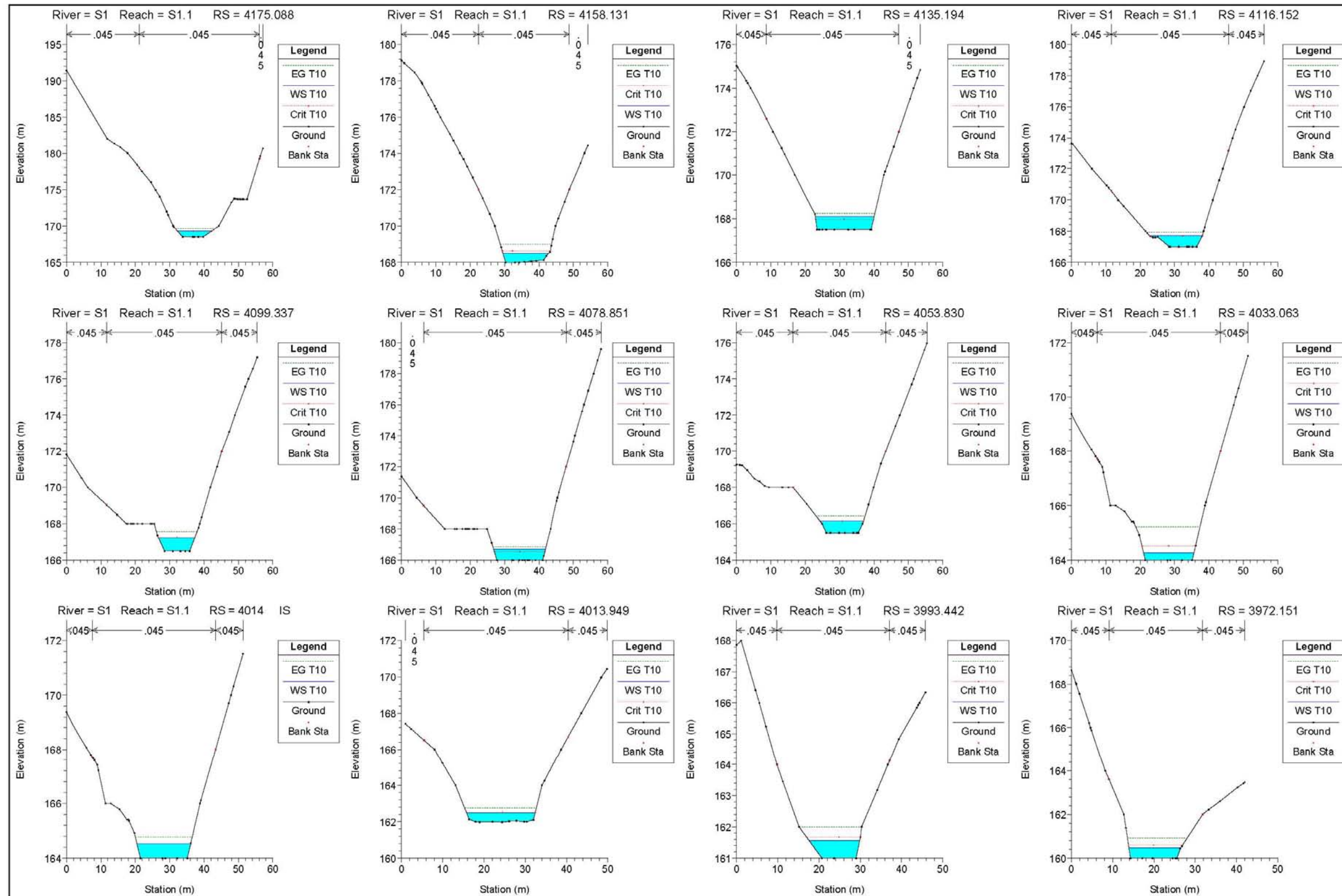
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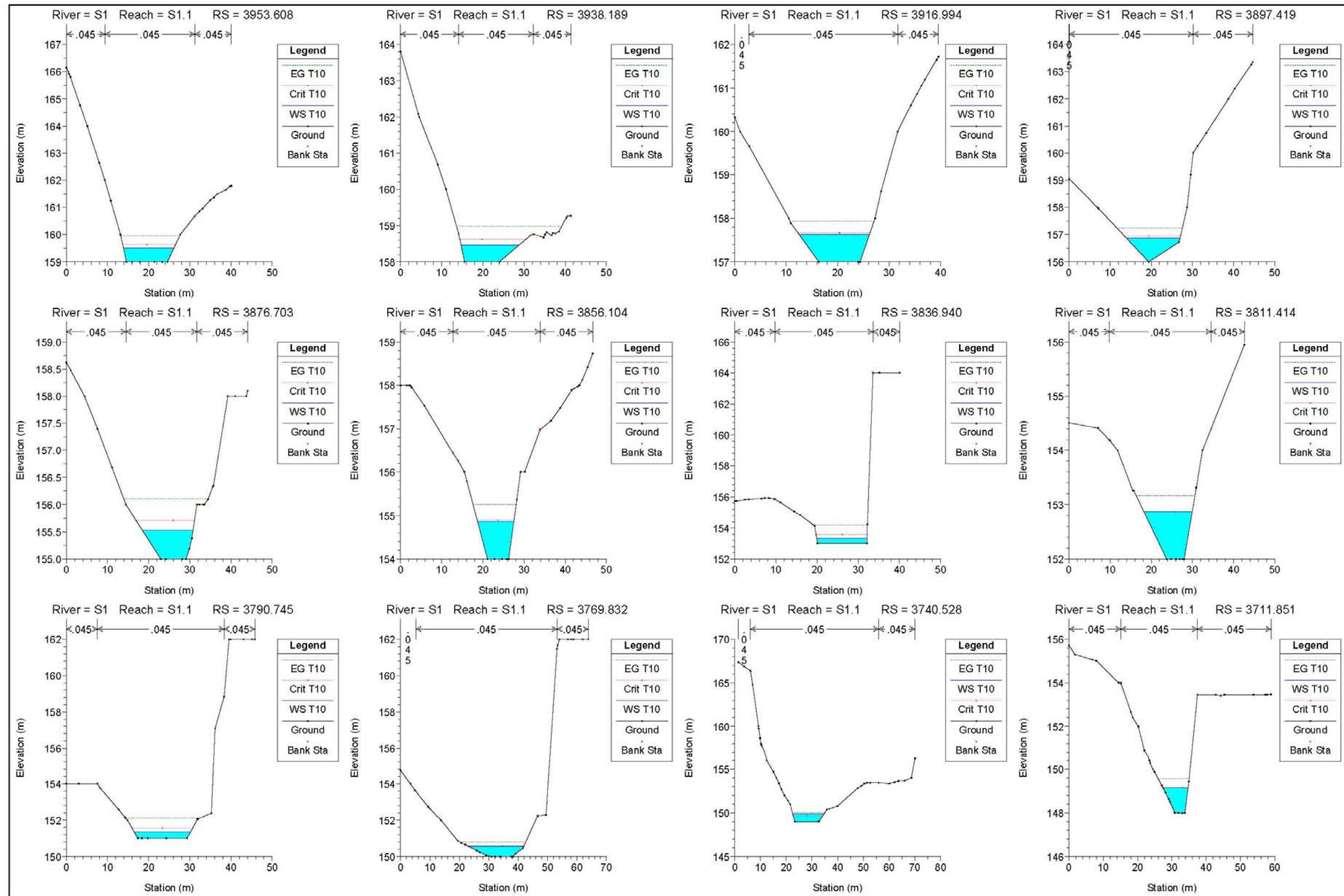




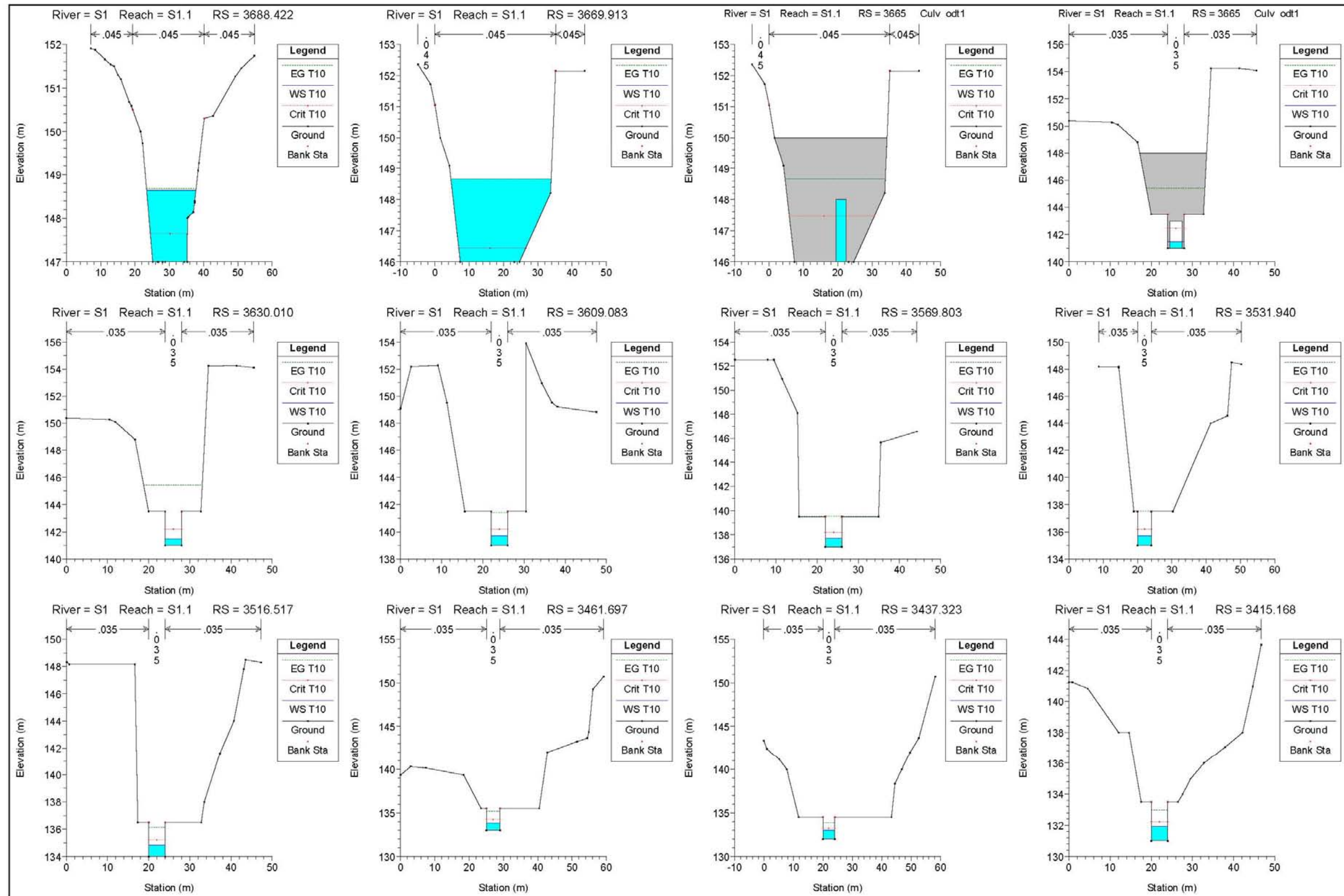
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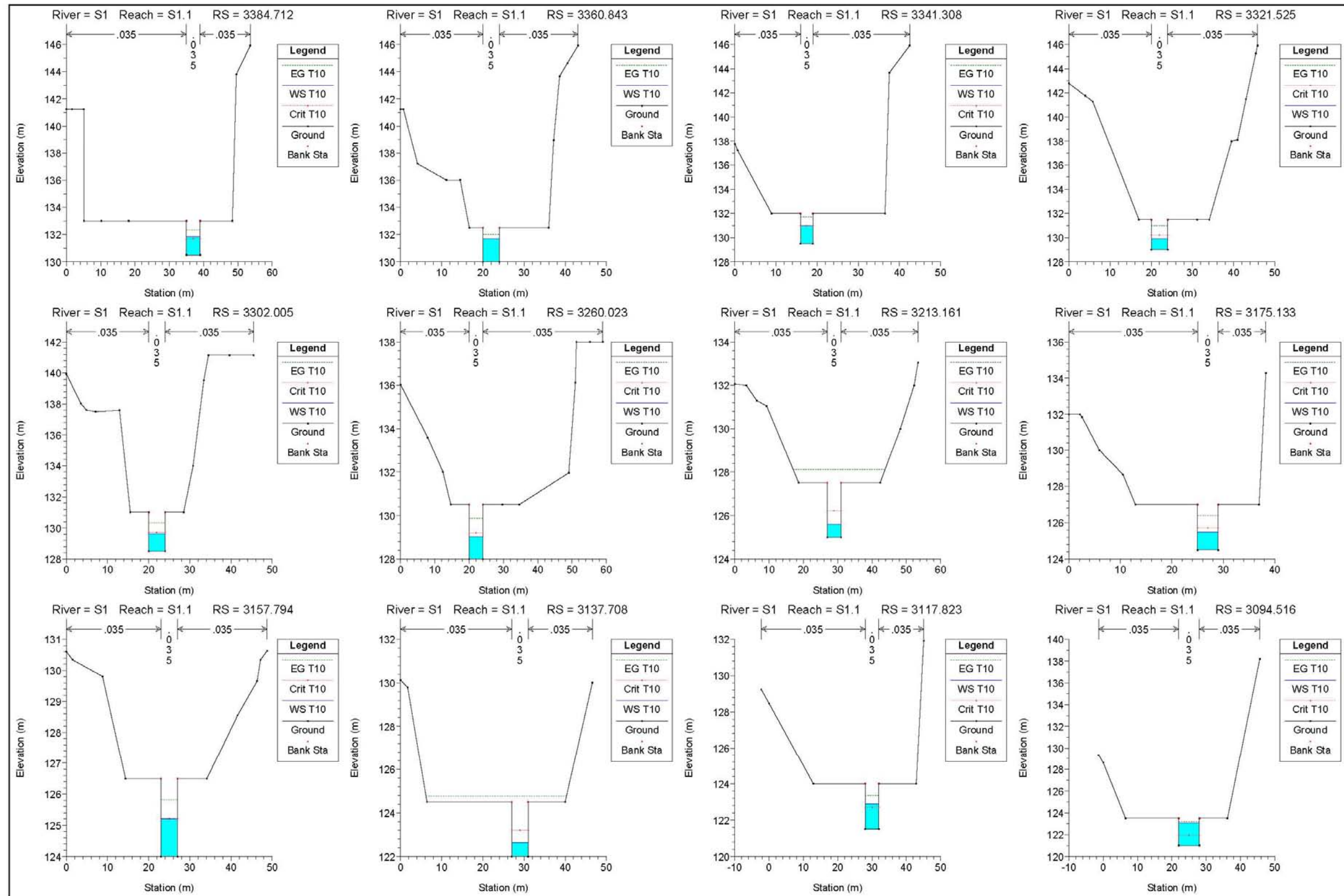


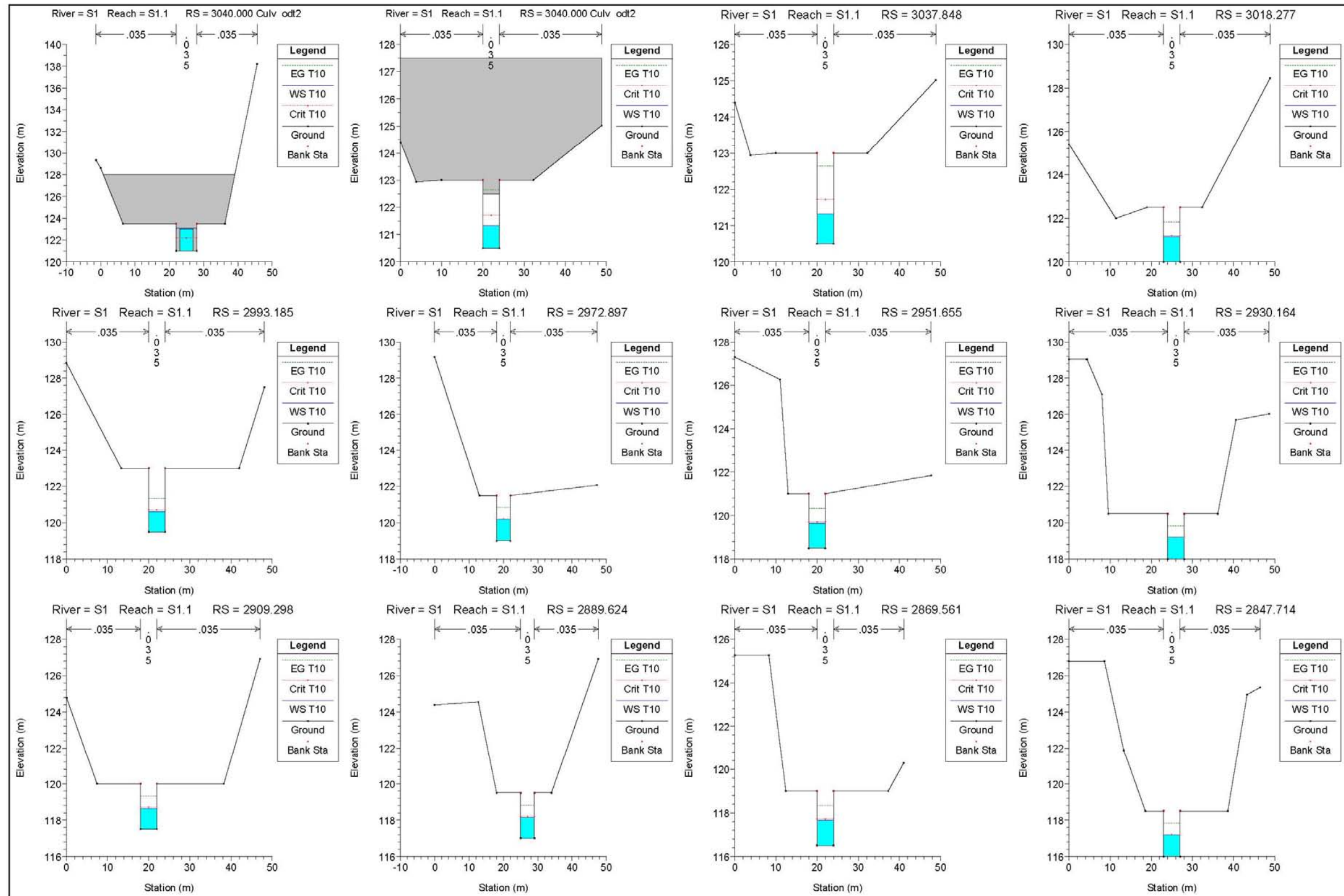


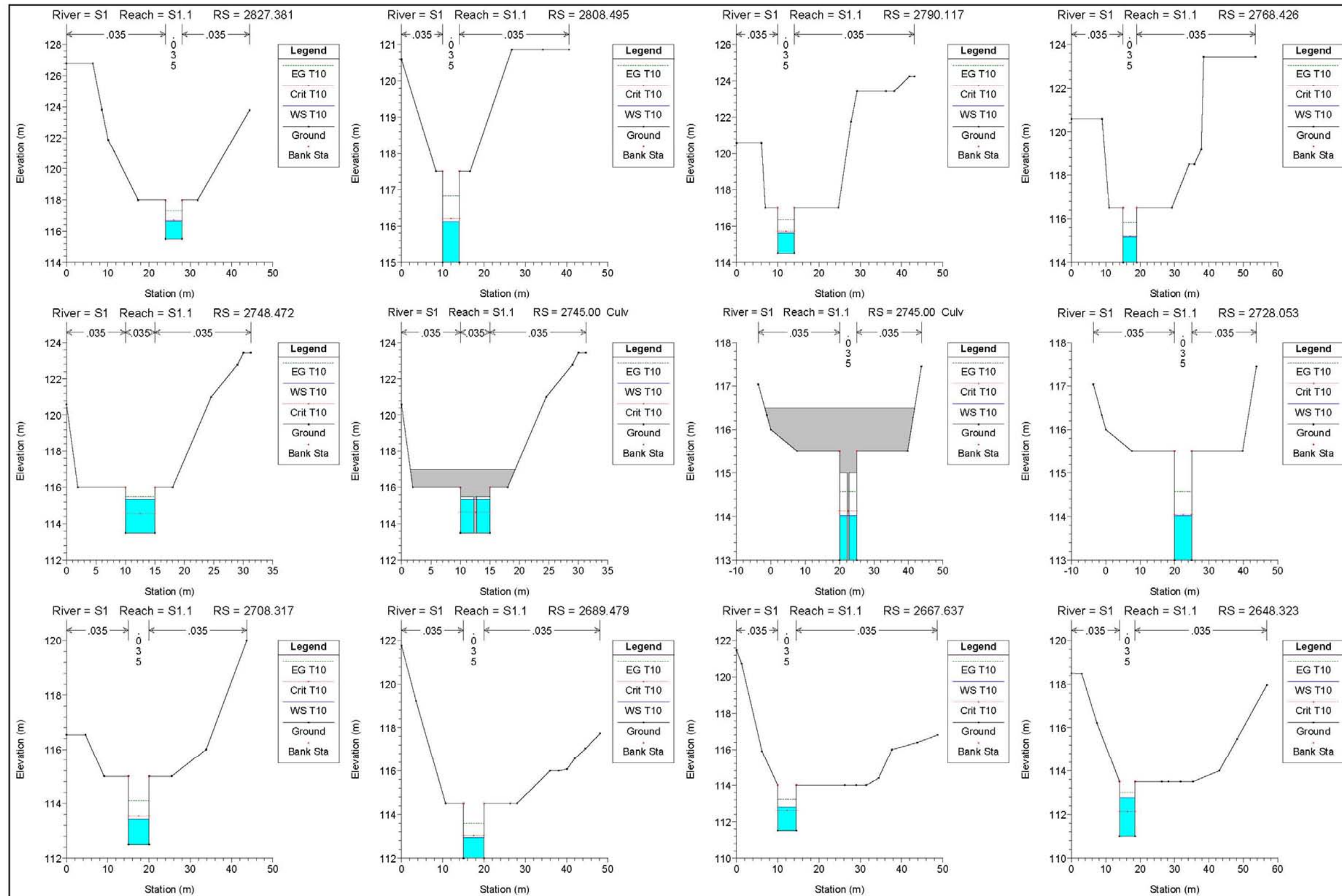


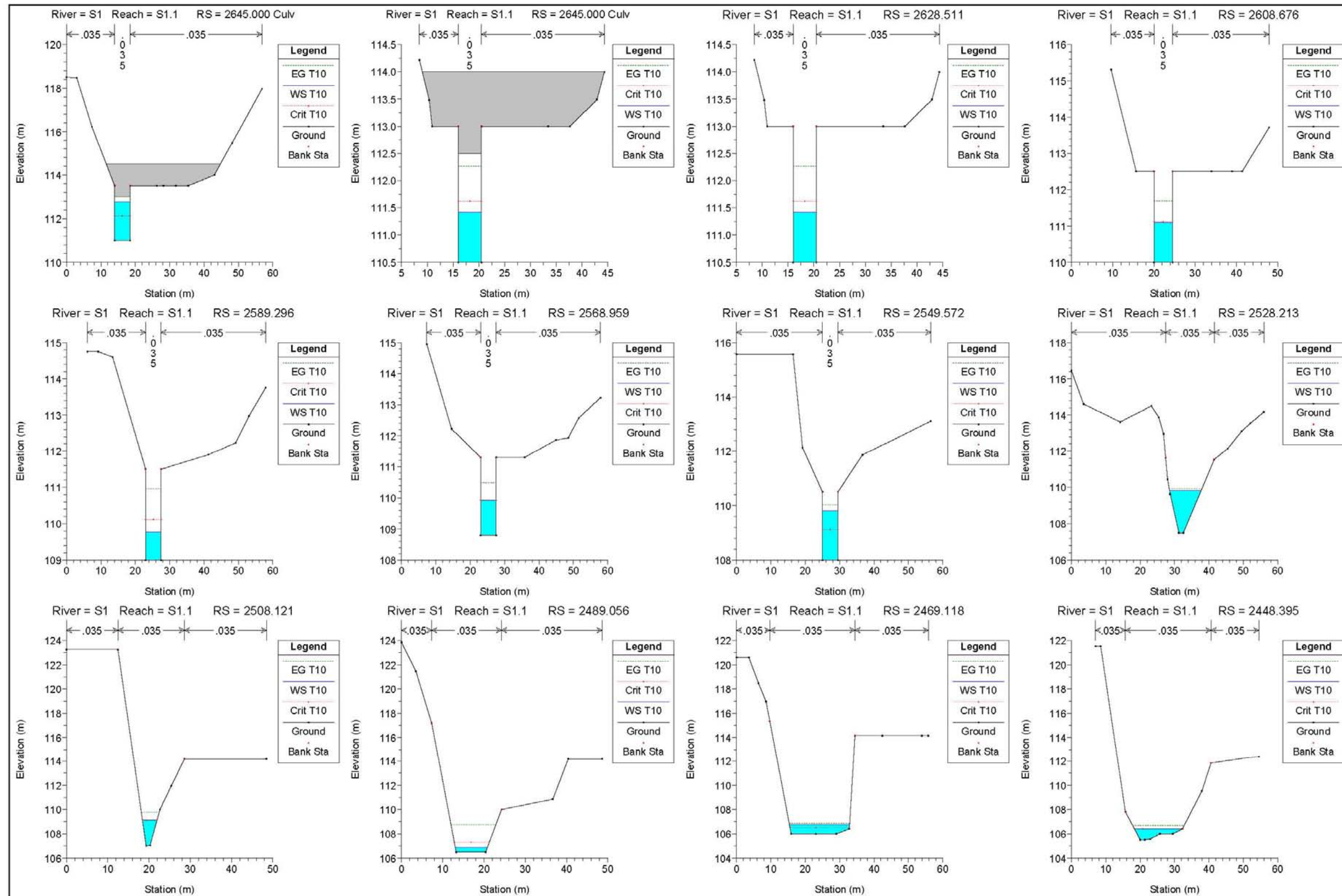
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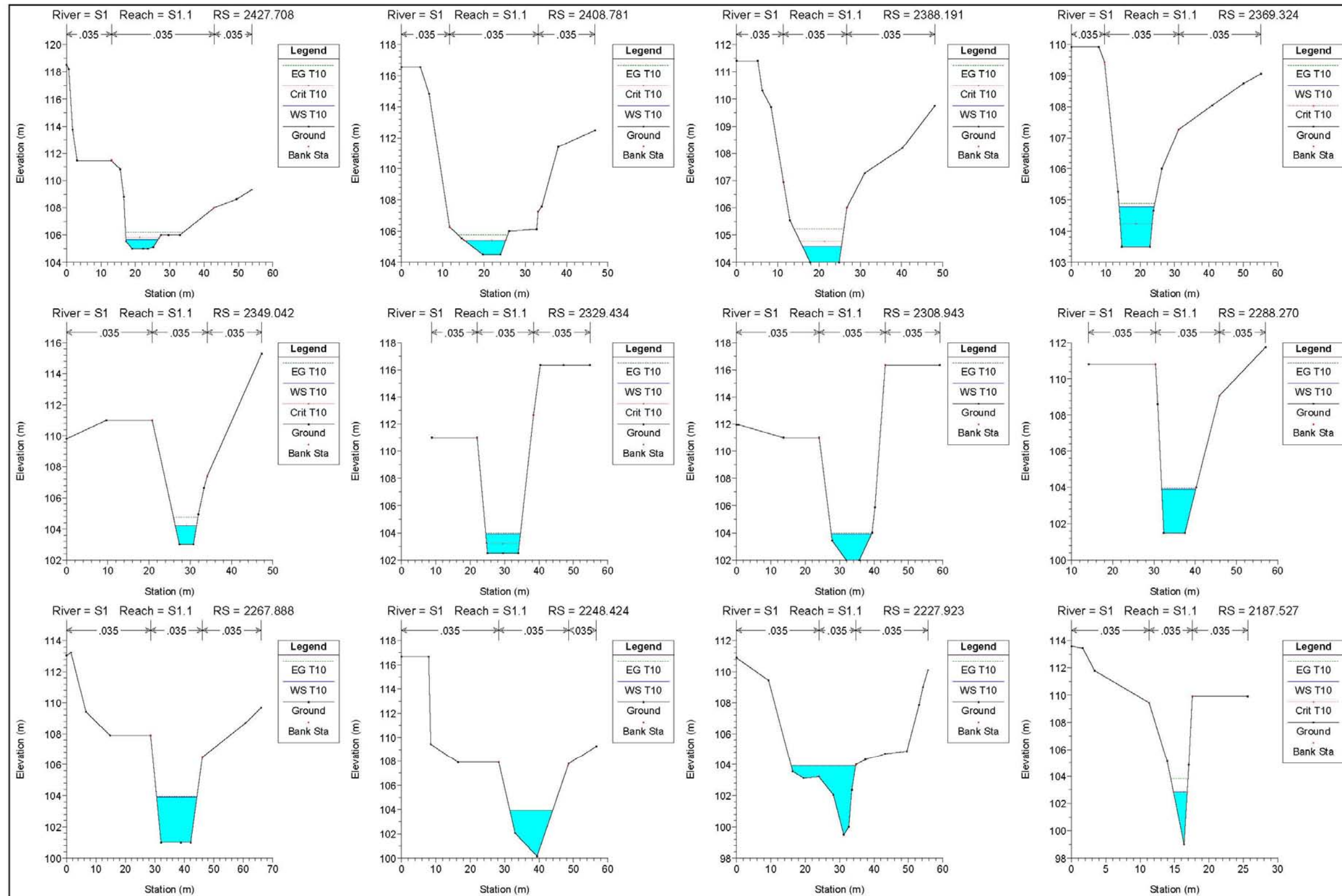




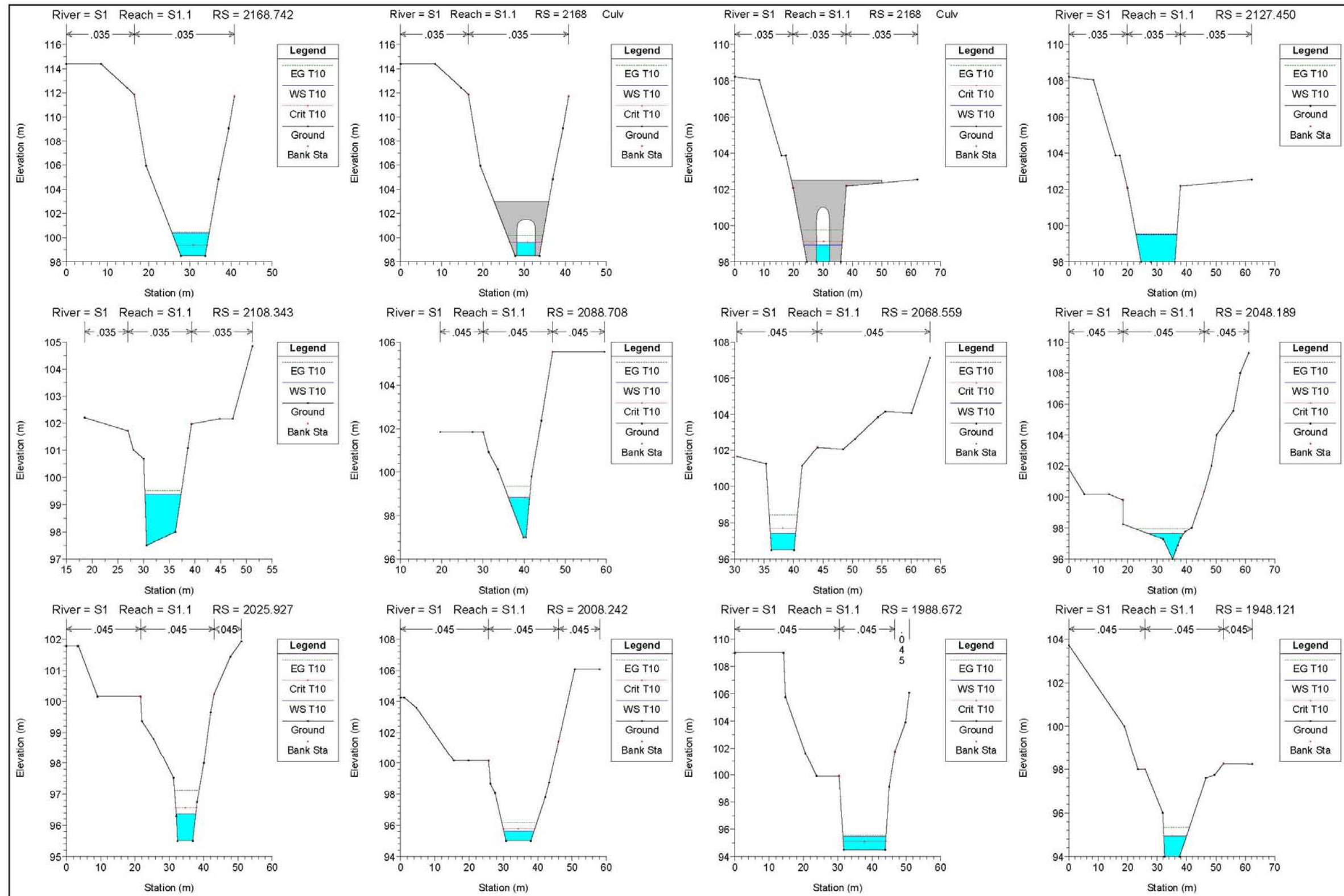


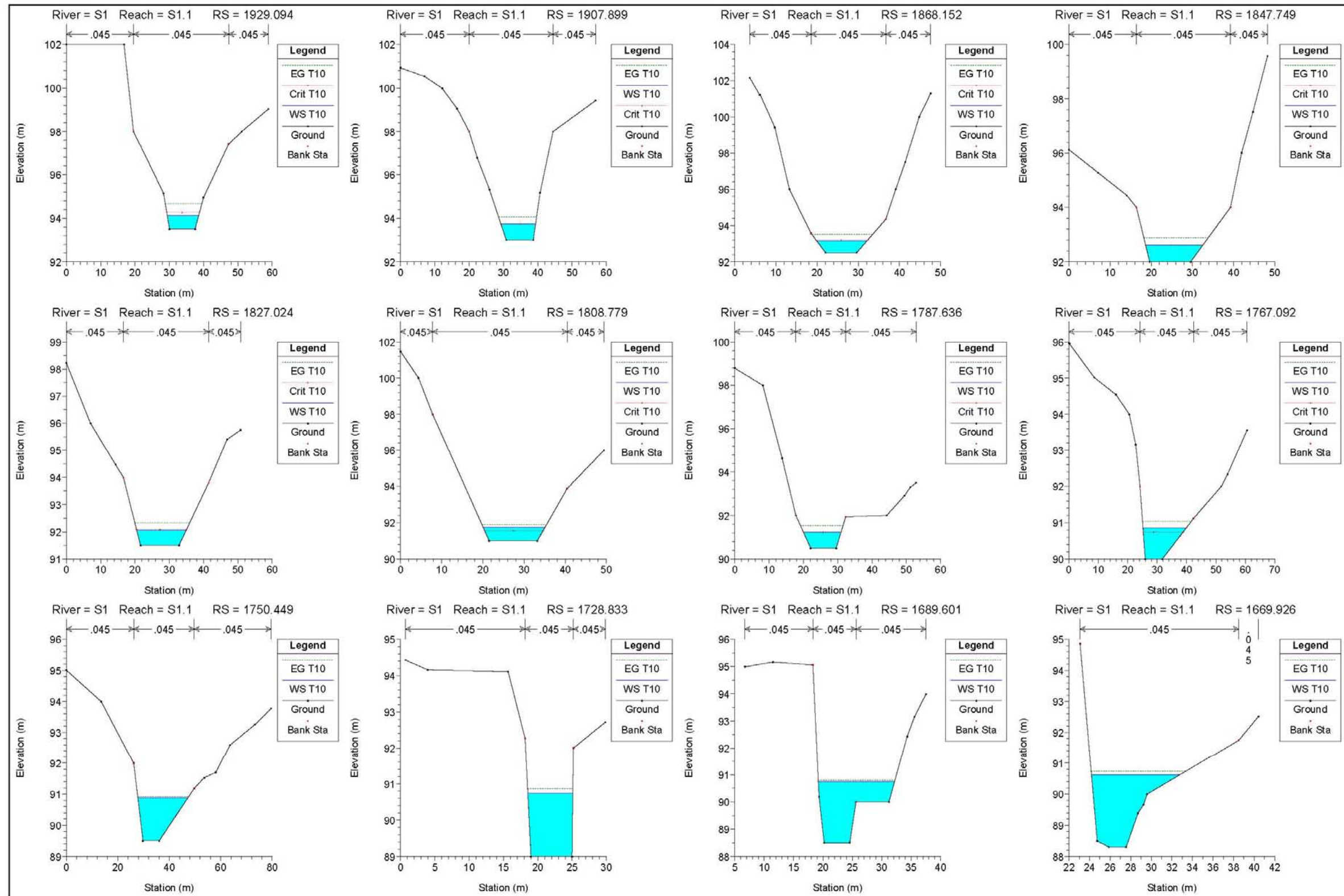


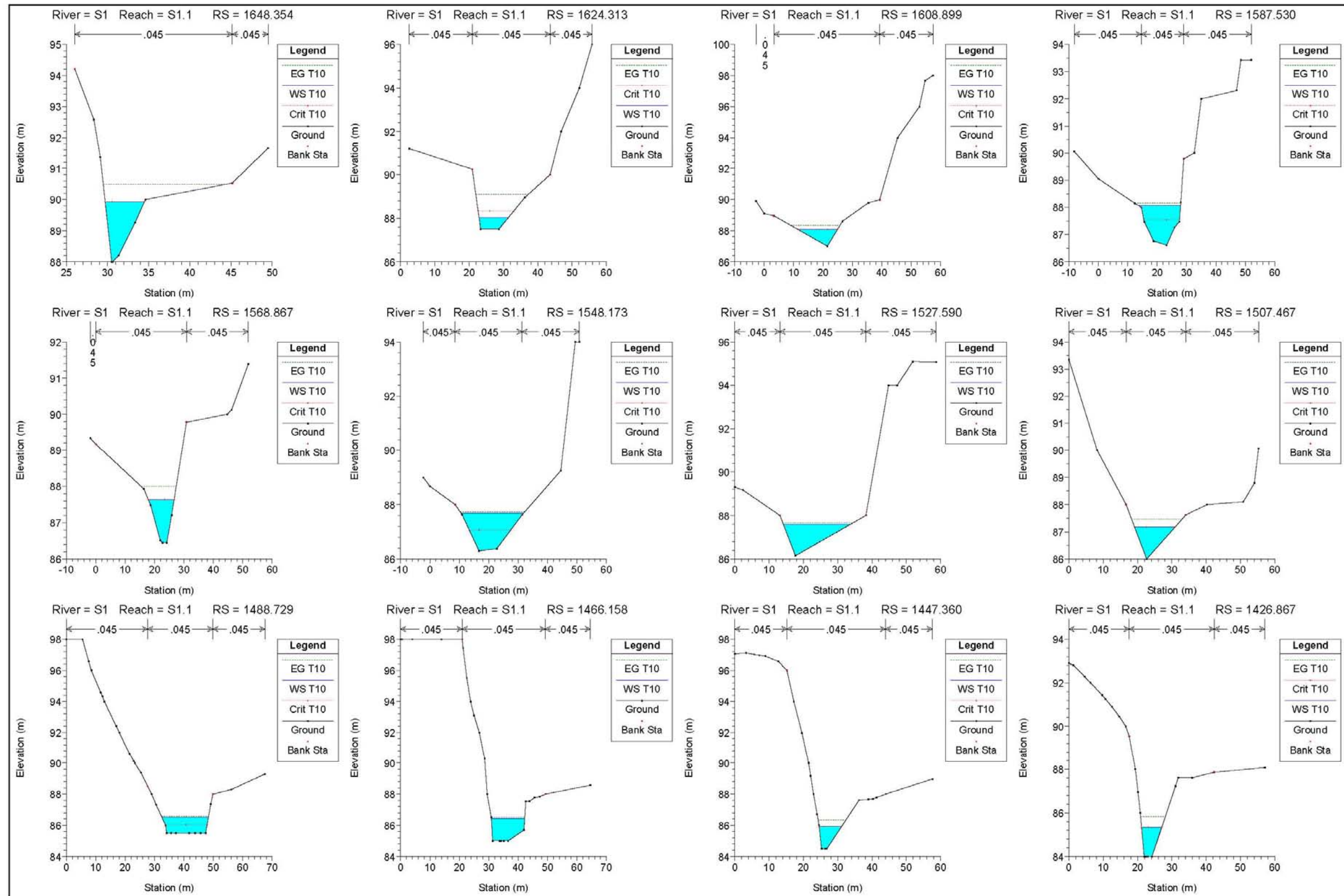


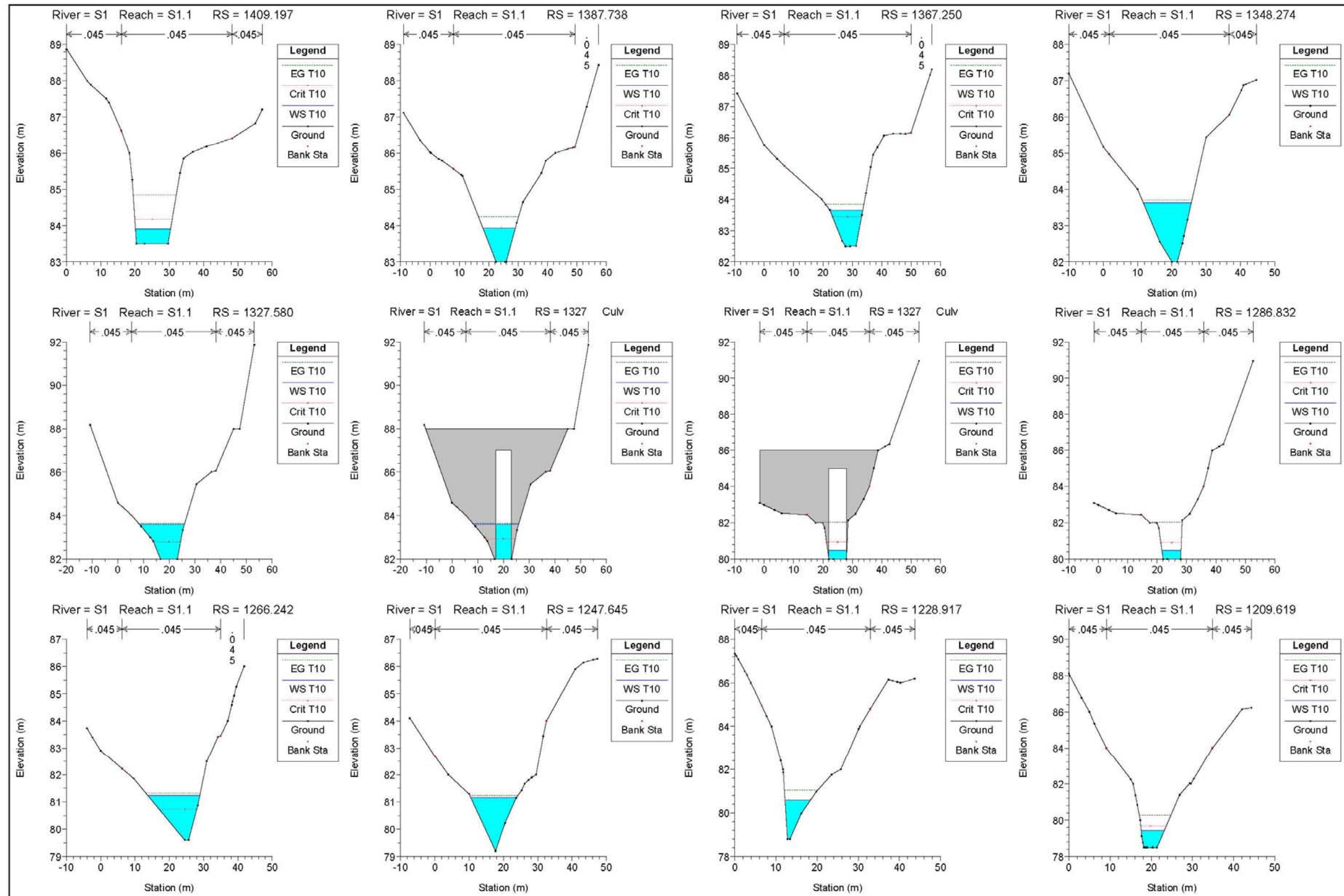


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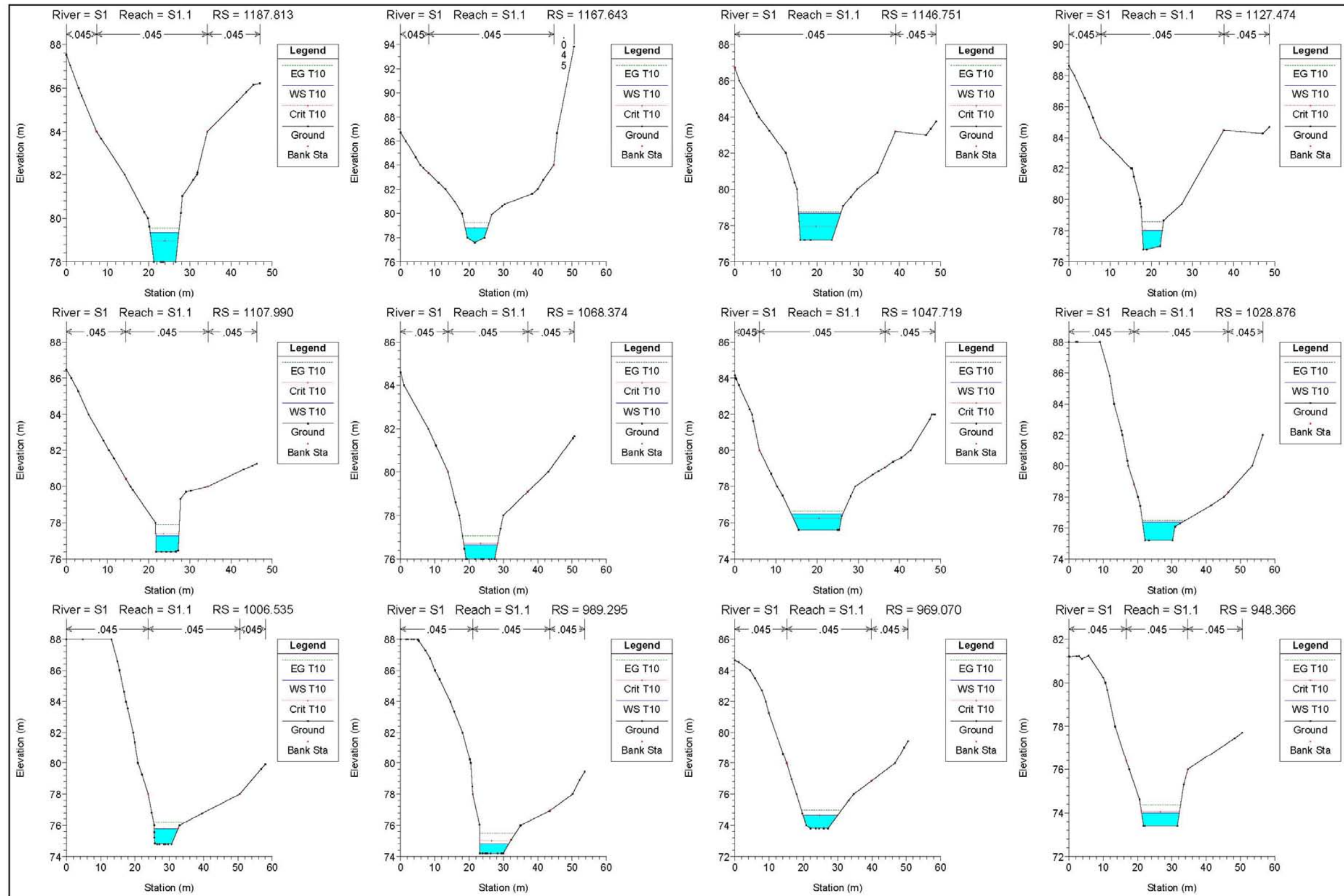


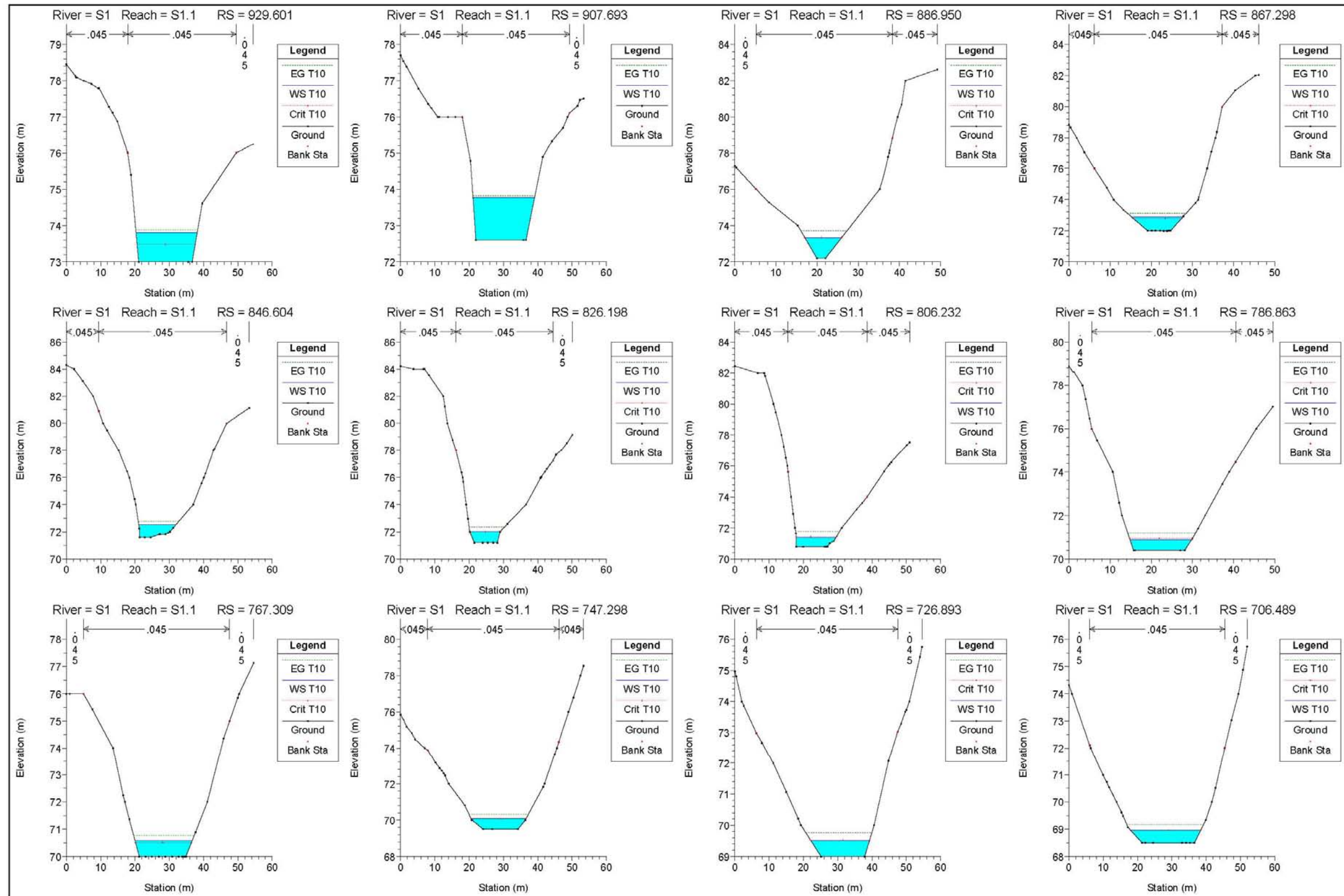


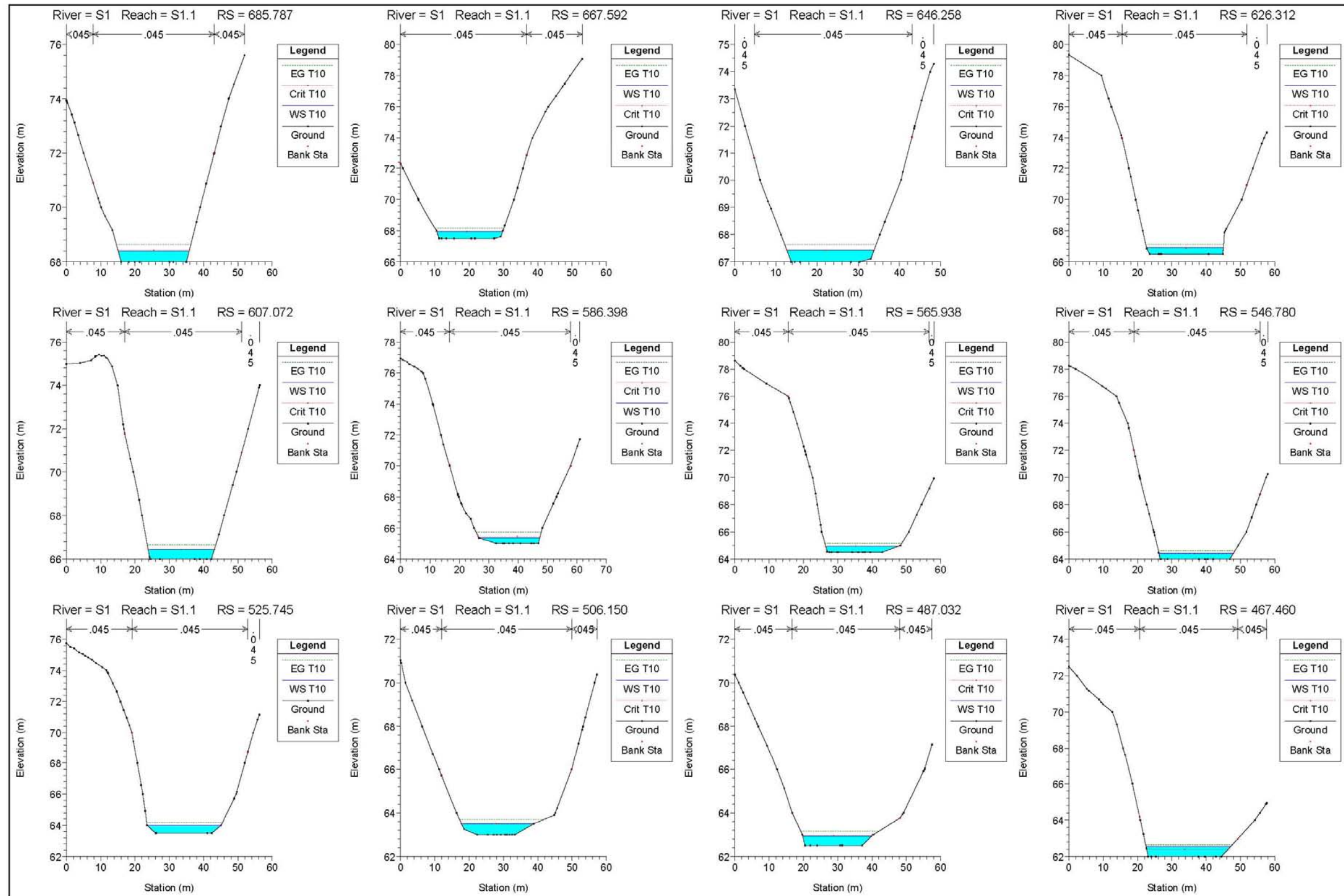


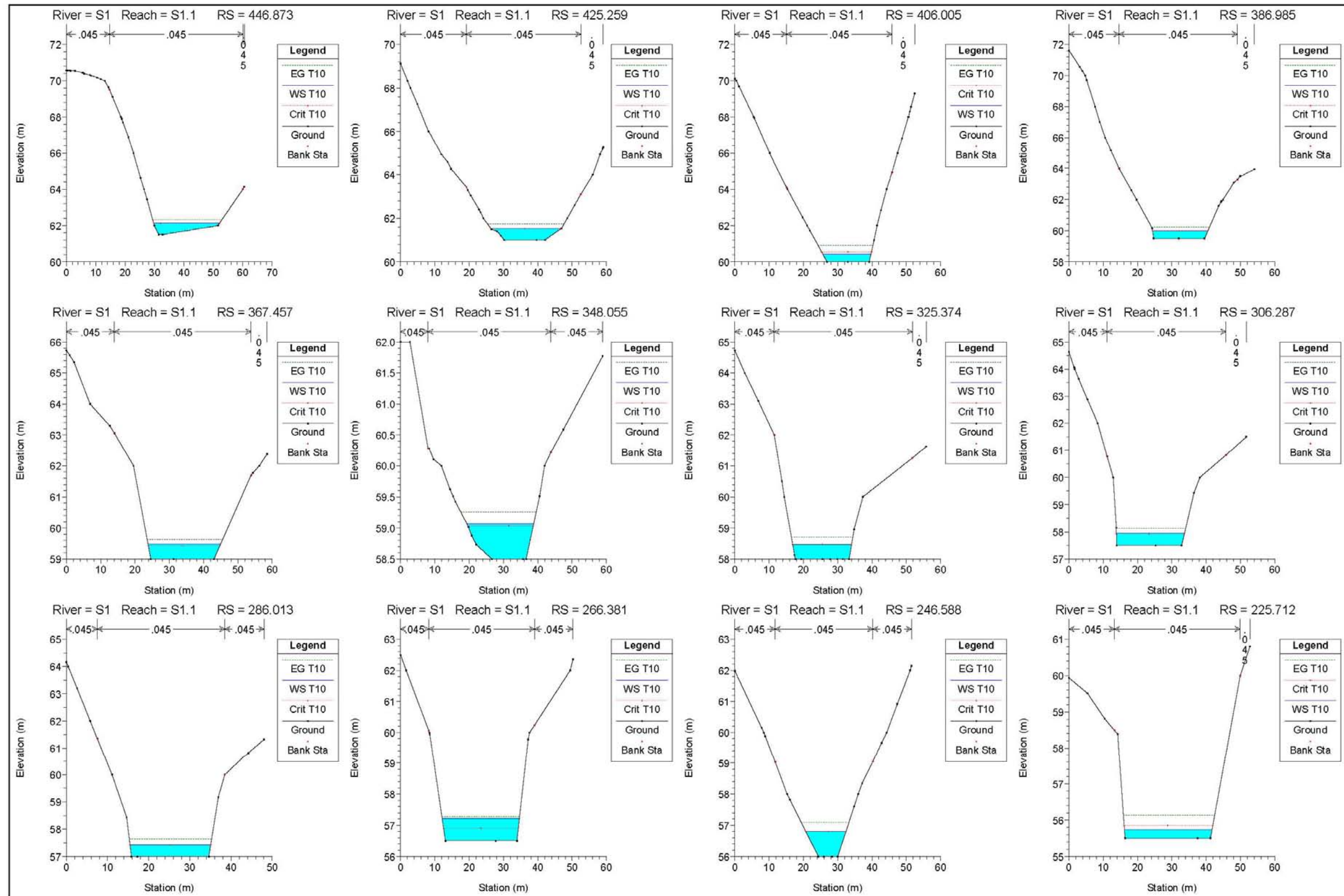


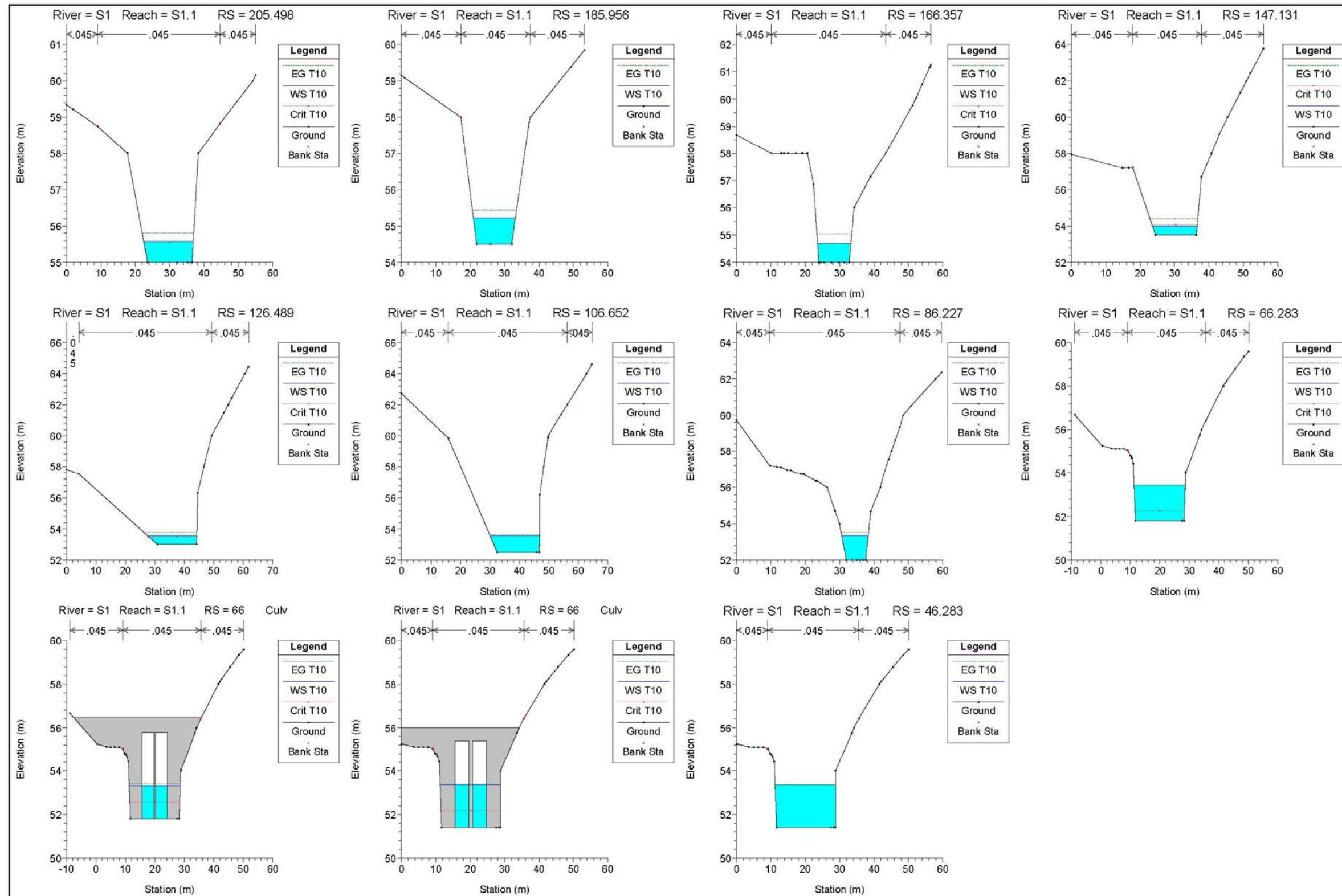
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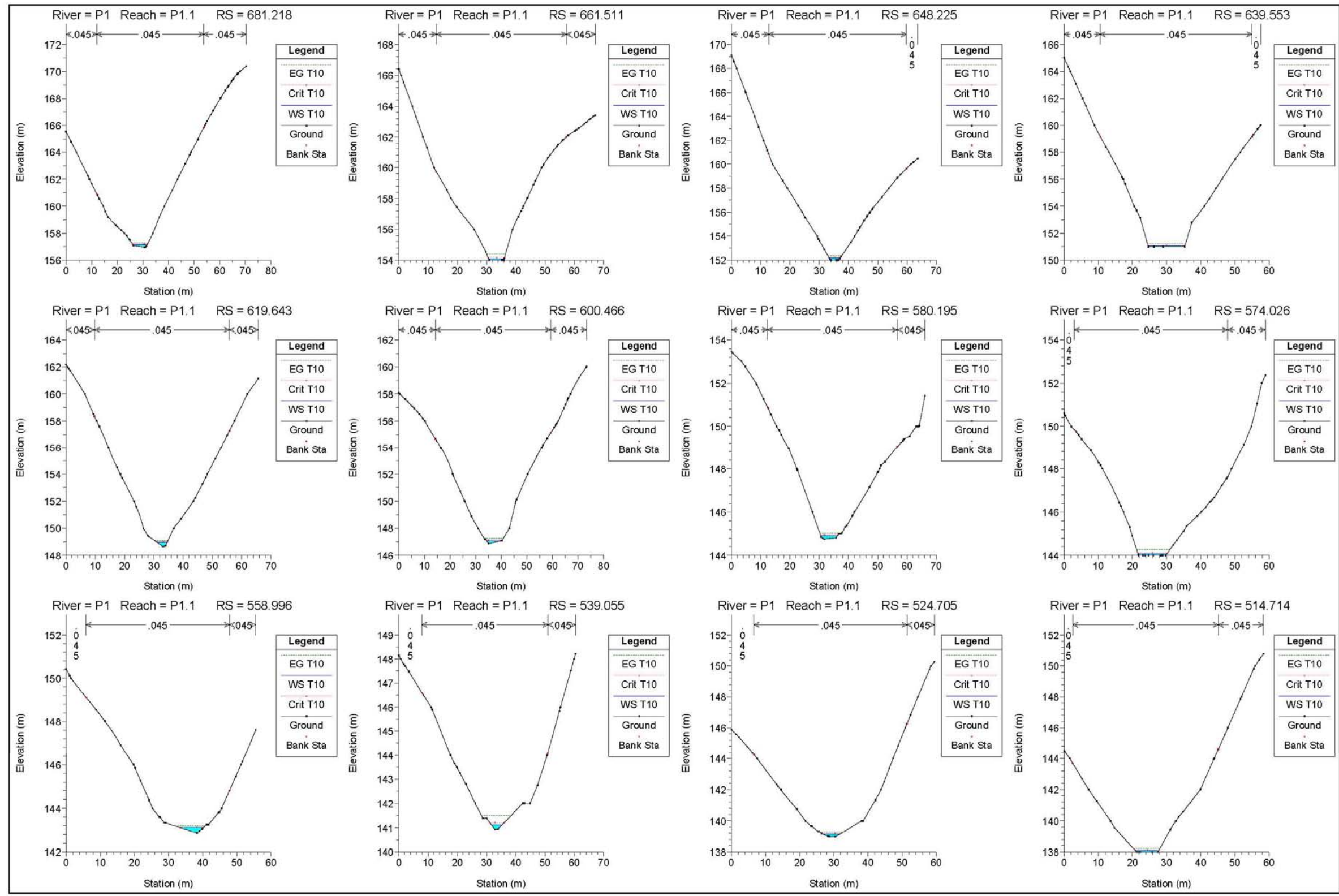




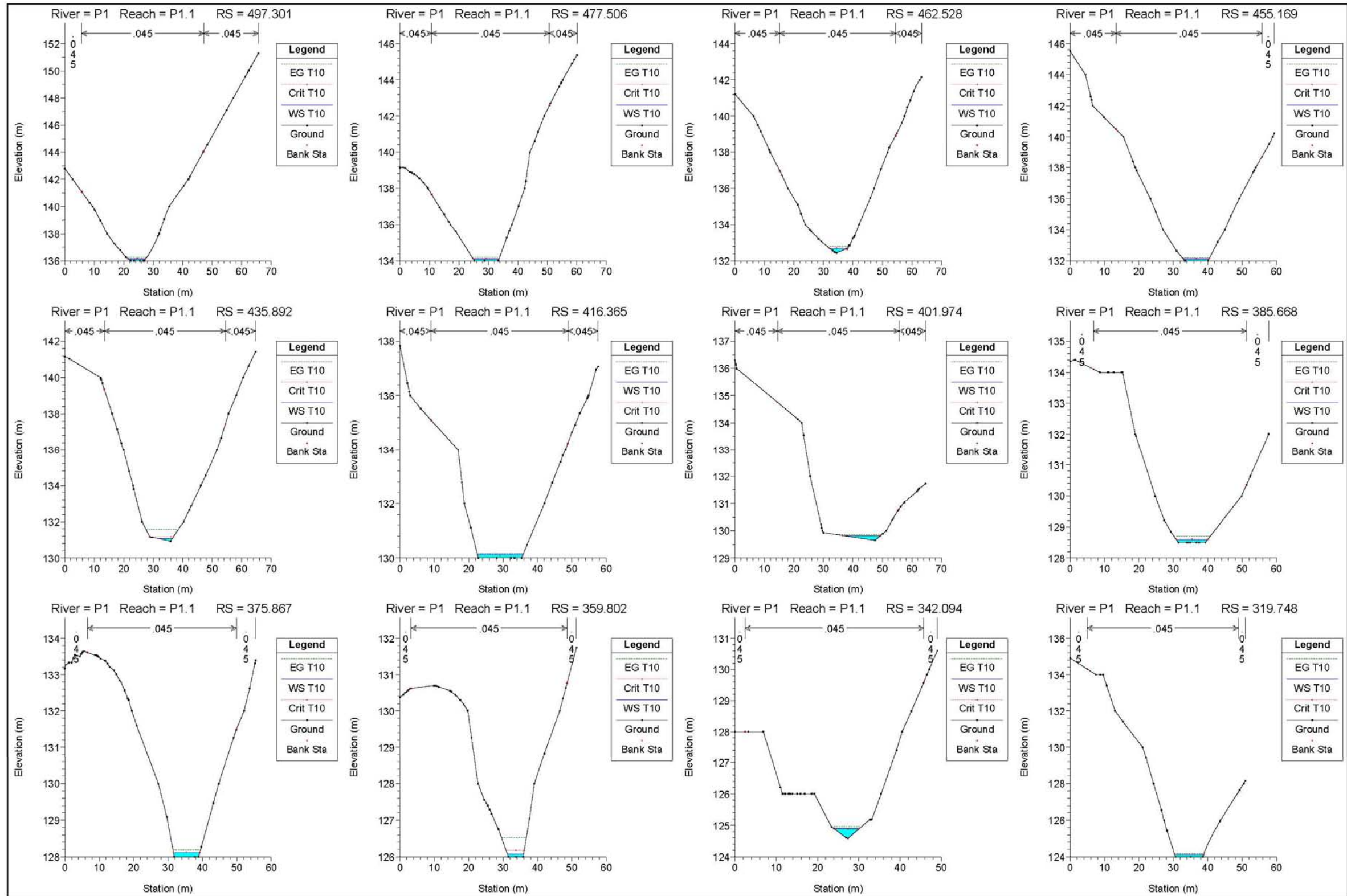


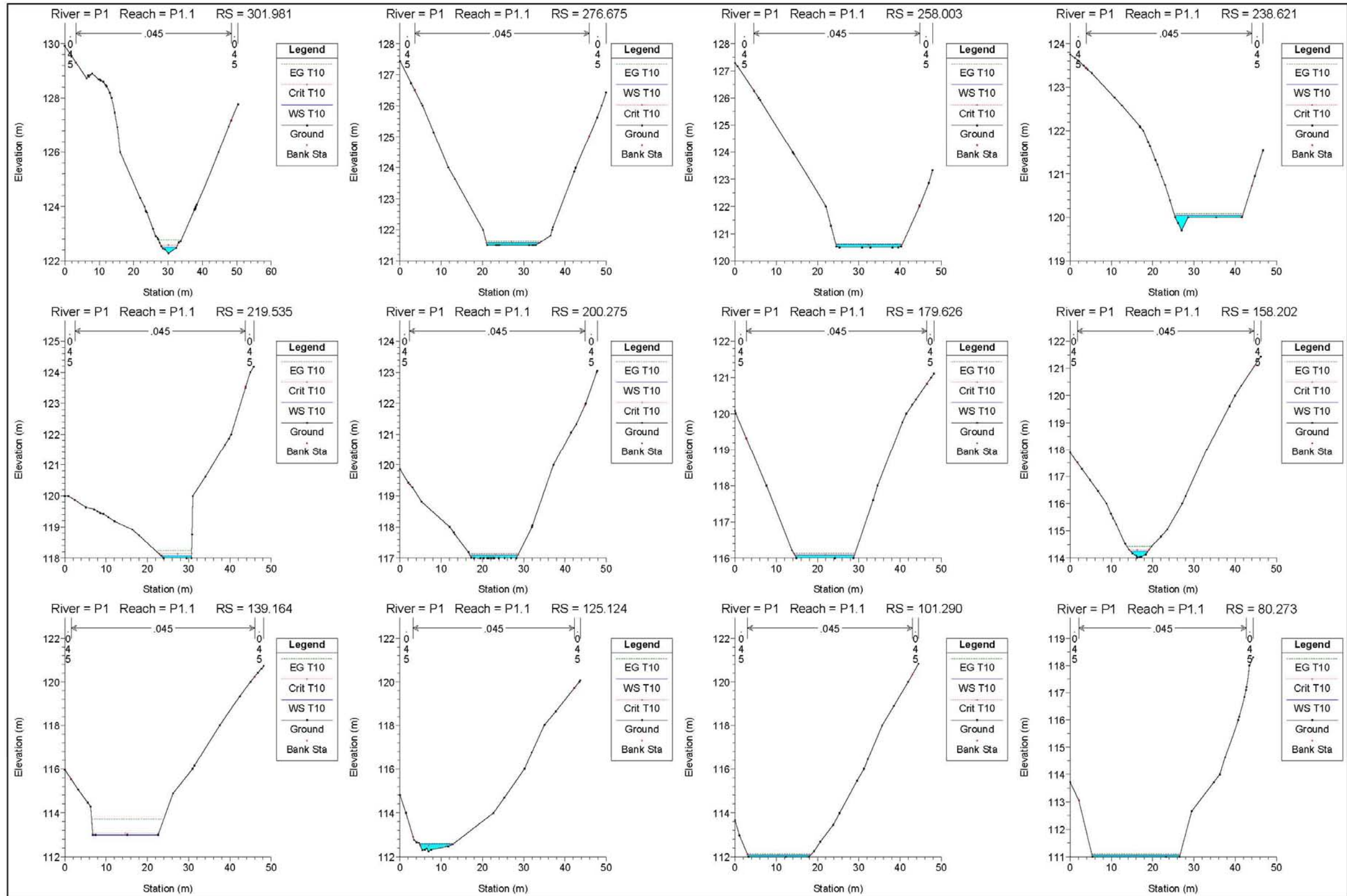


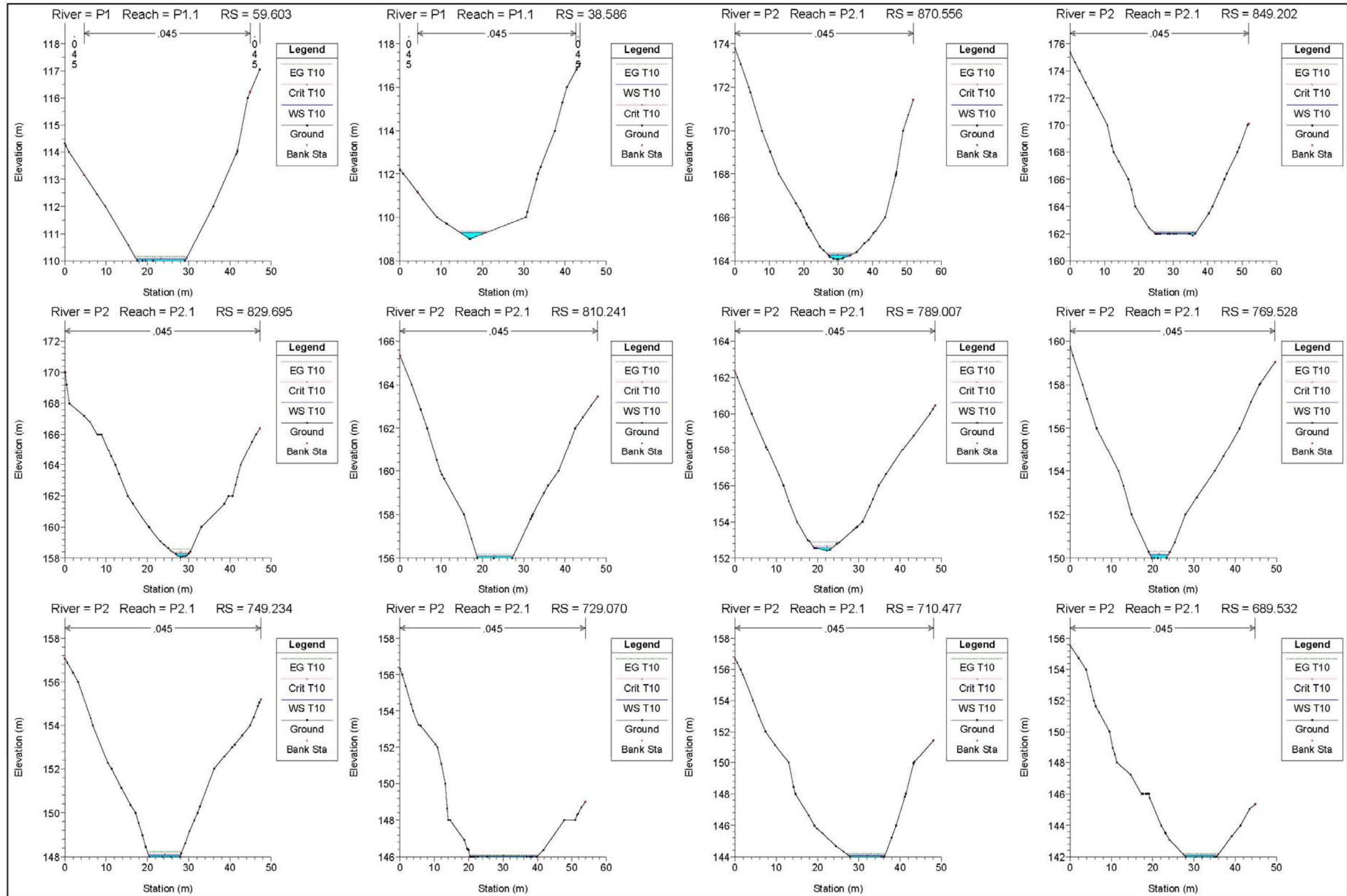
3.1.3.3.- Arroyo Pachurraco

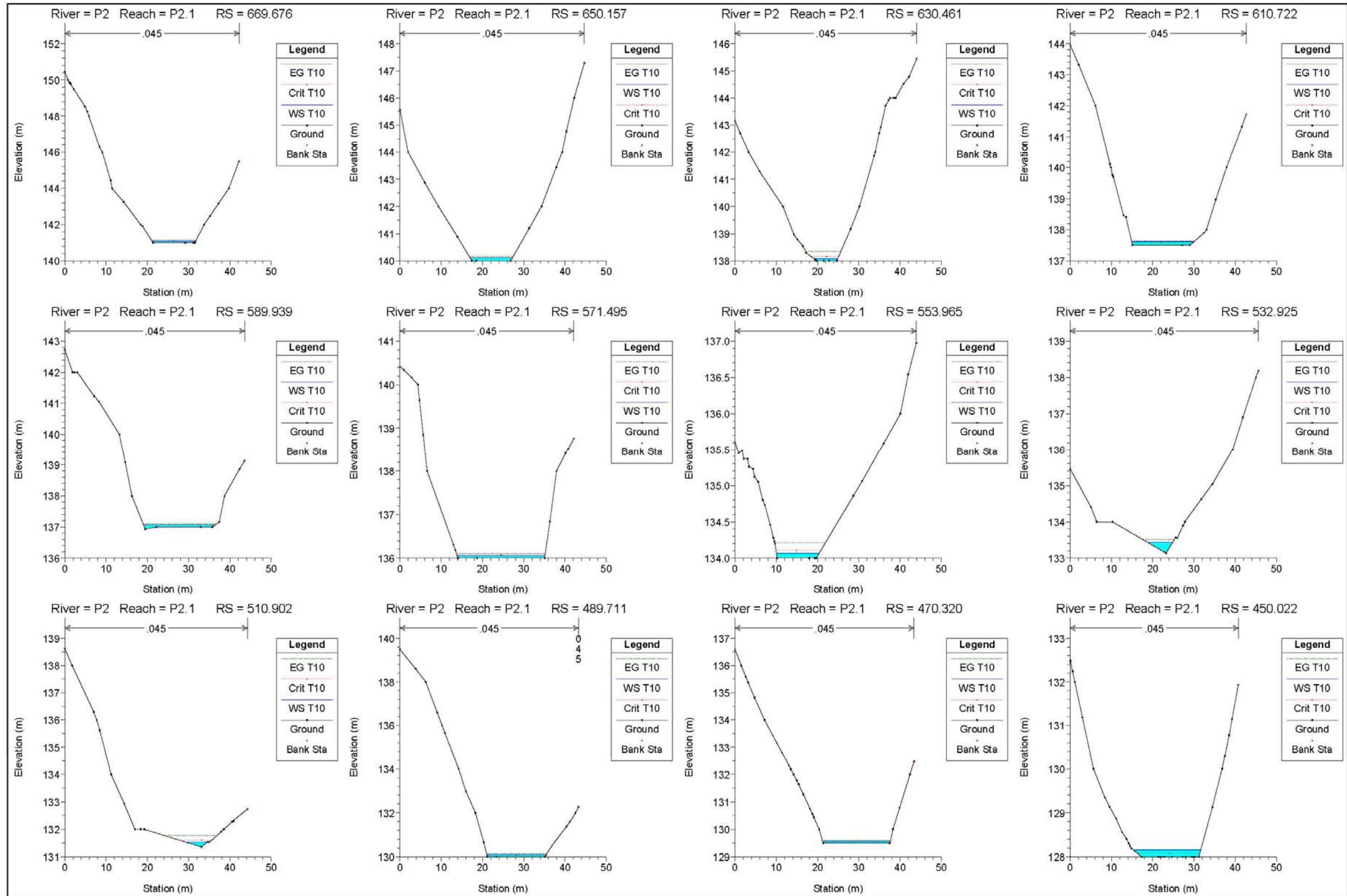


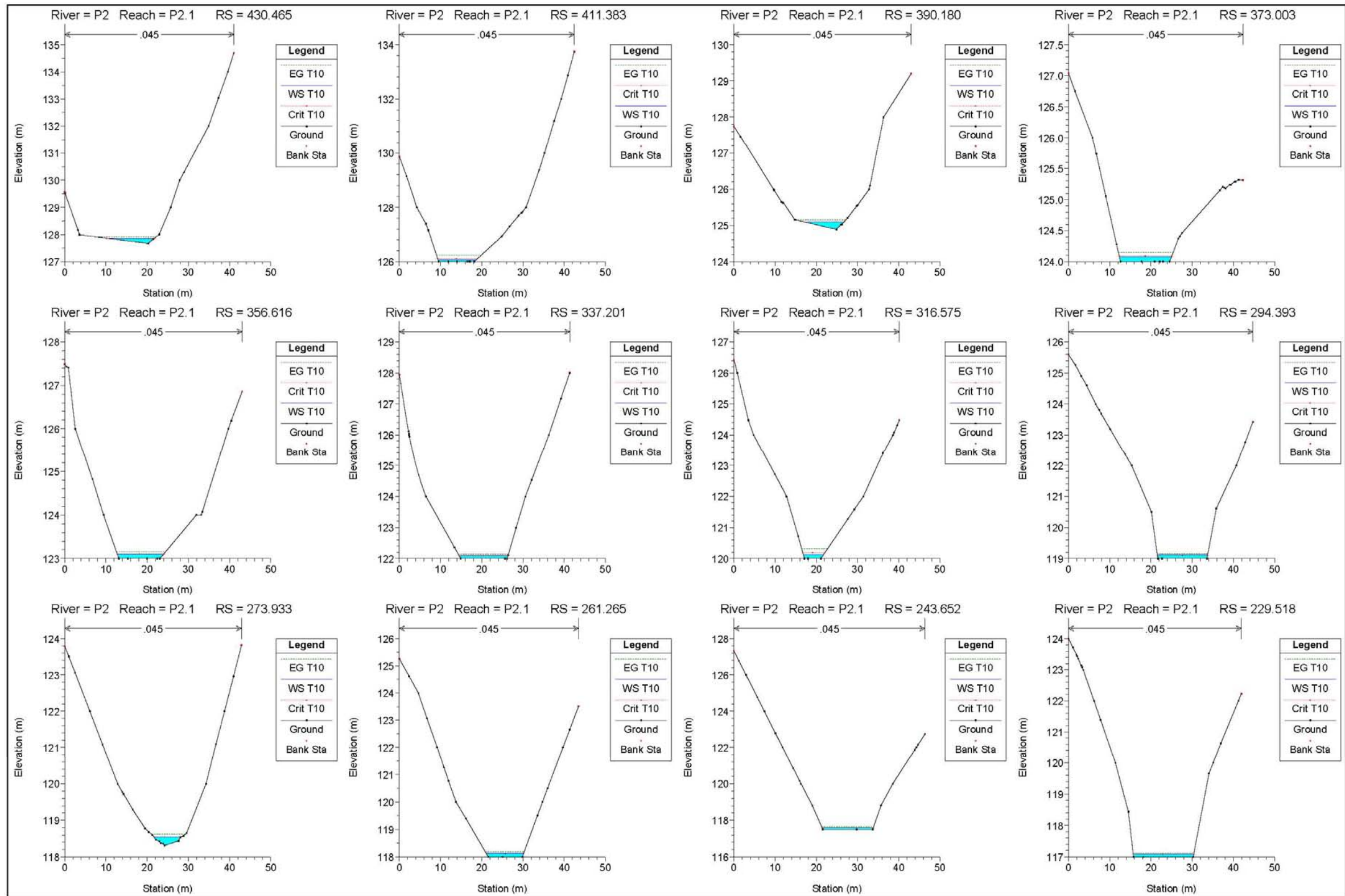
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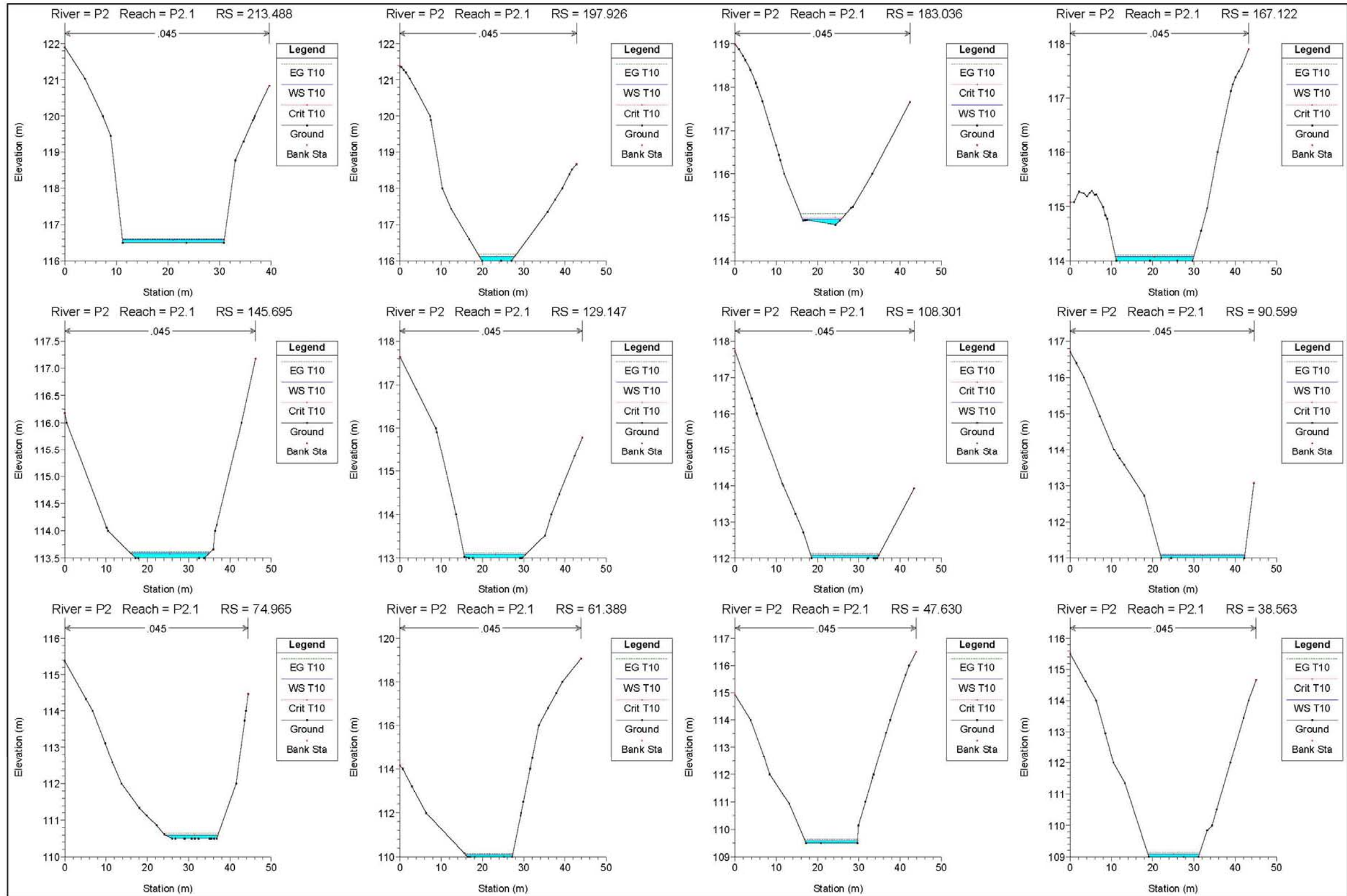




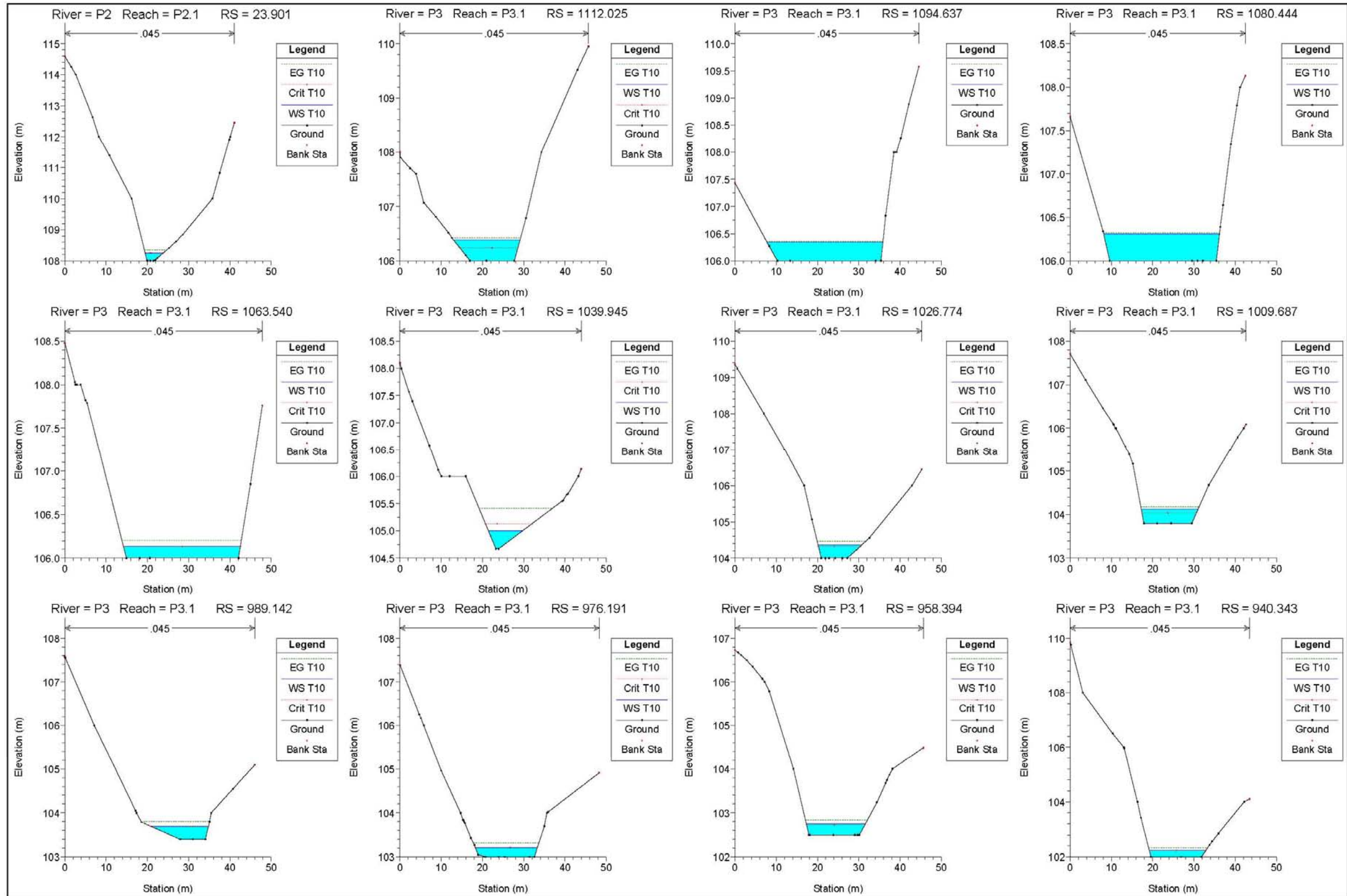




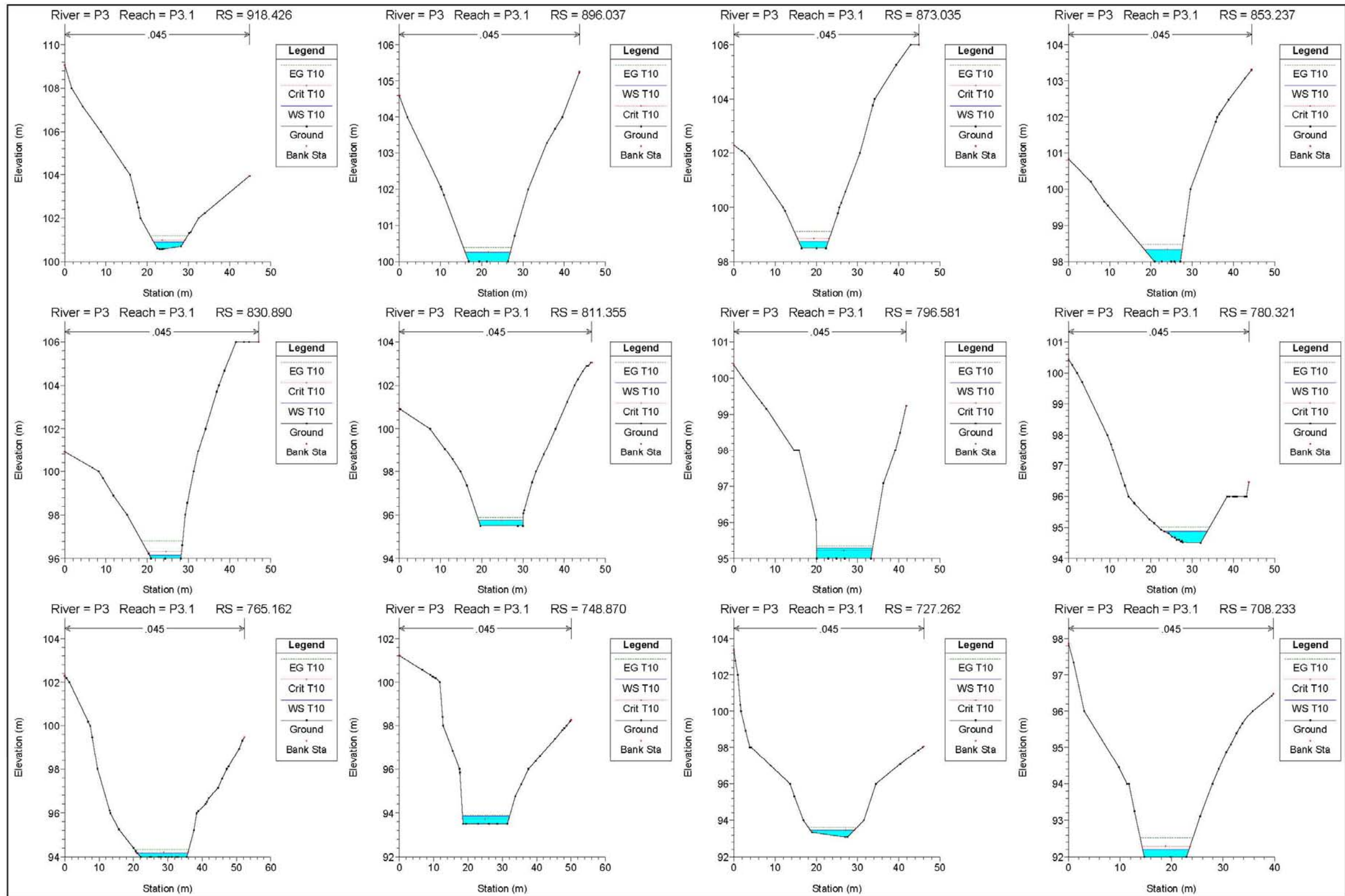
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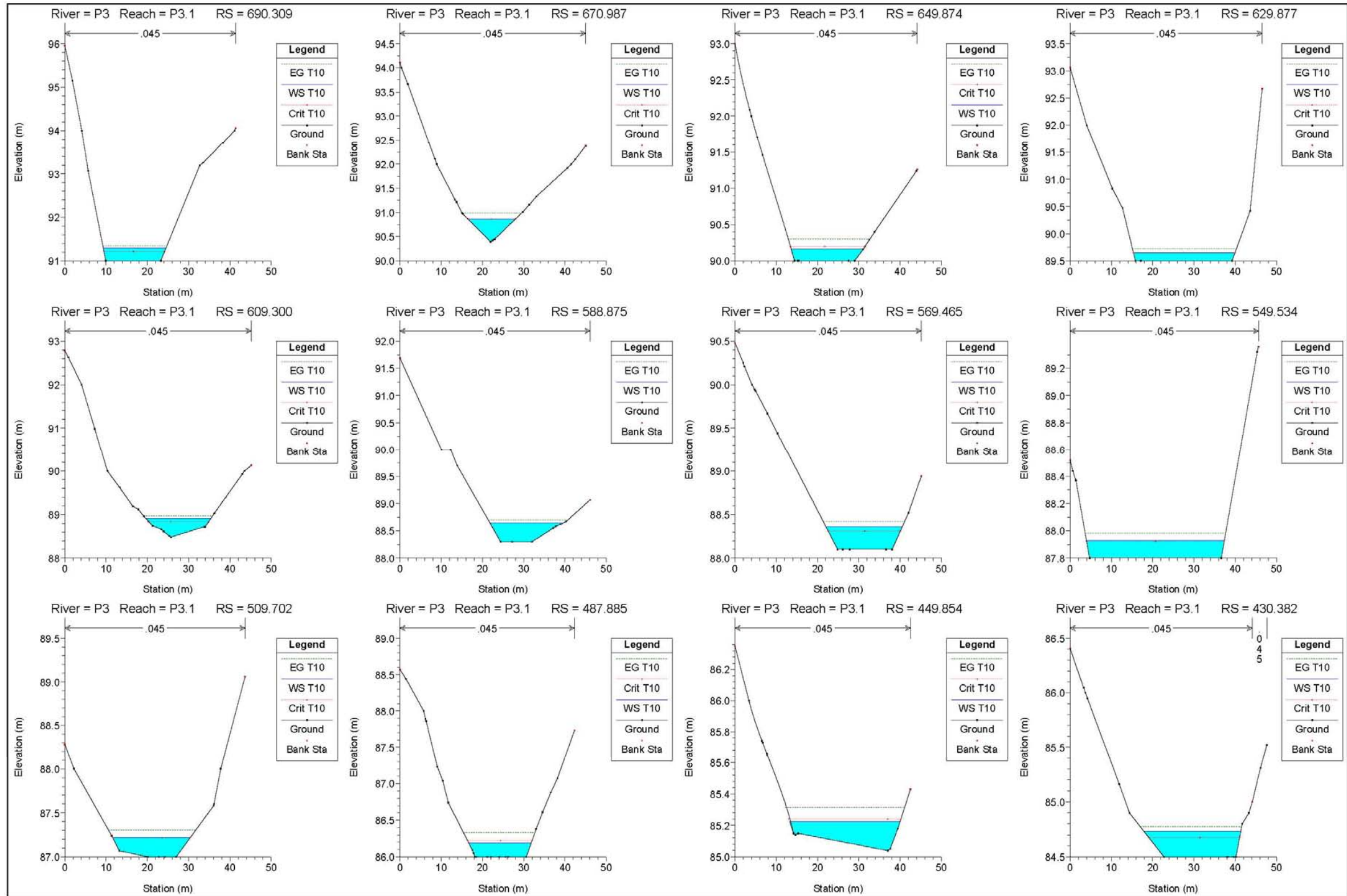


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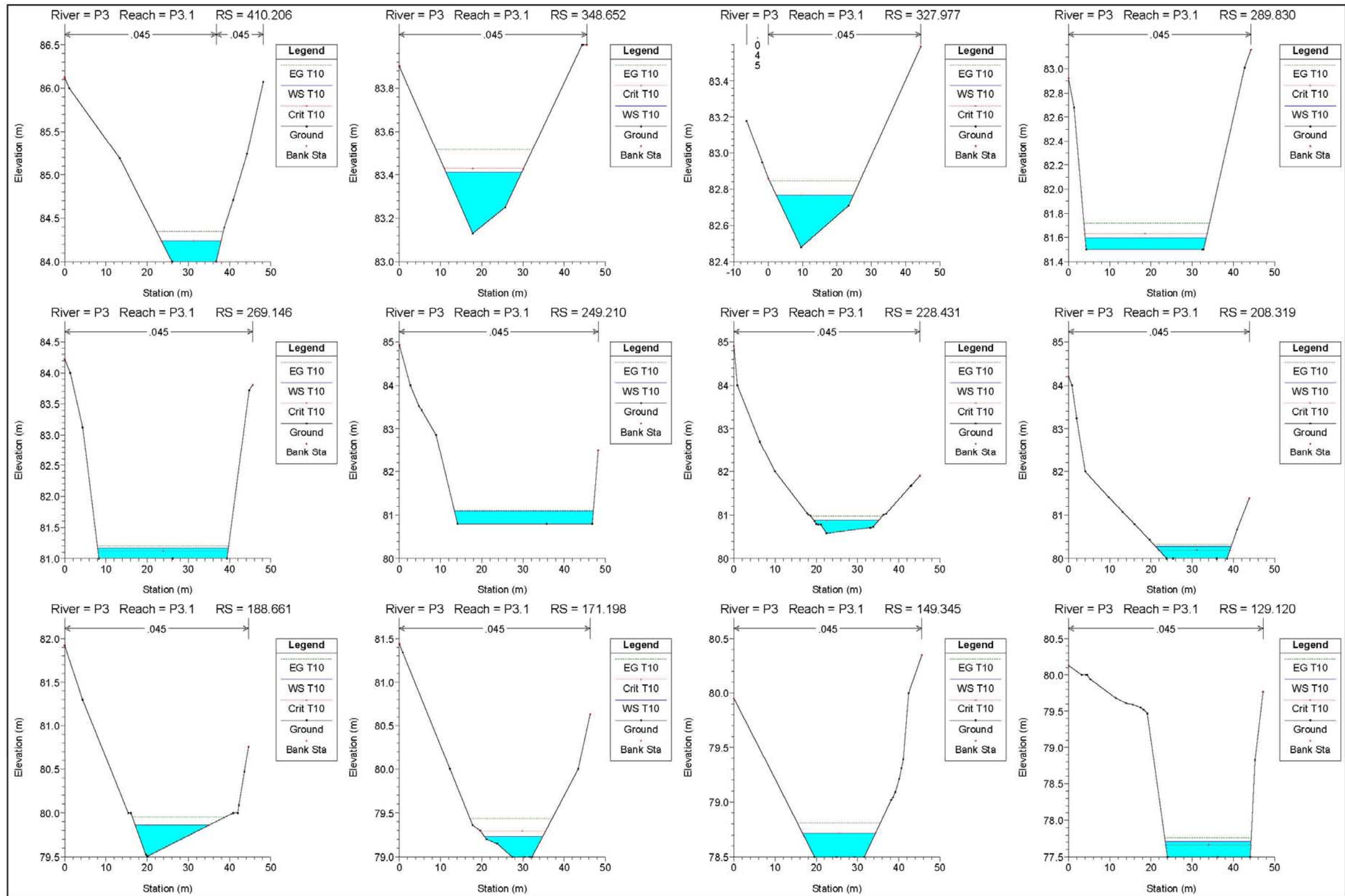


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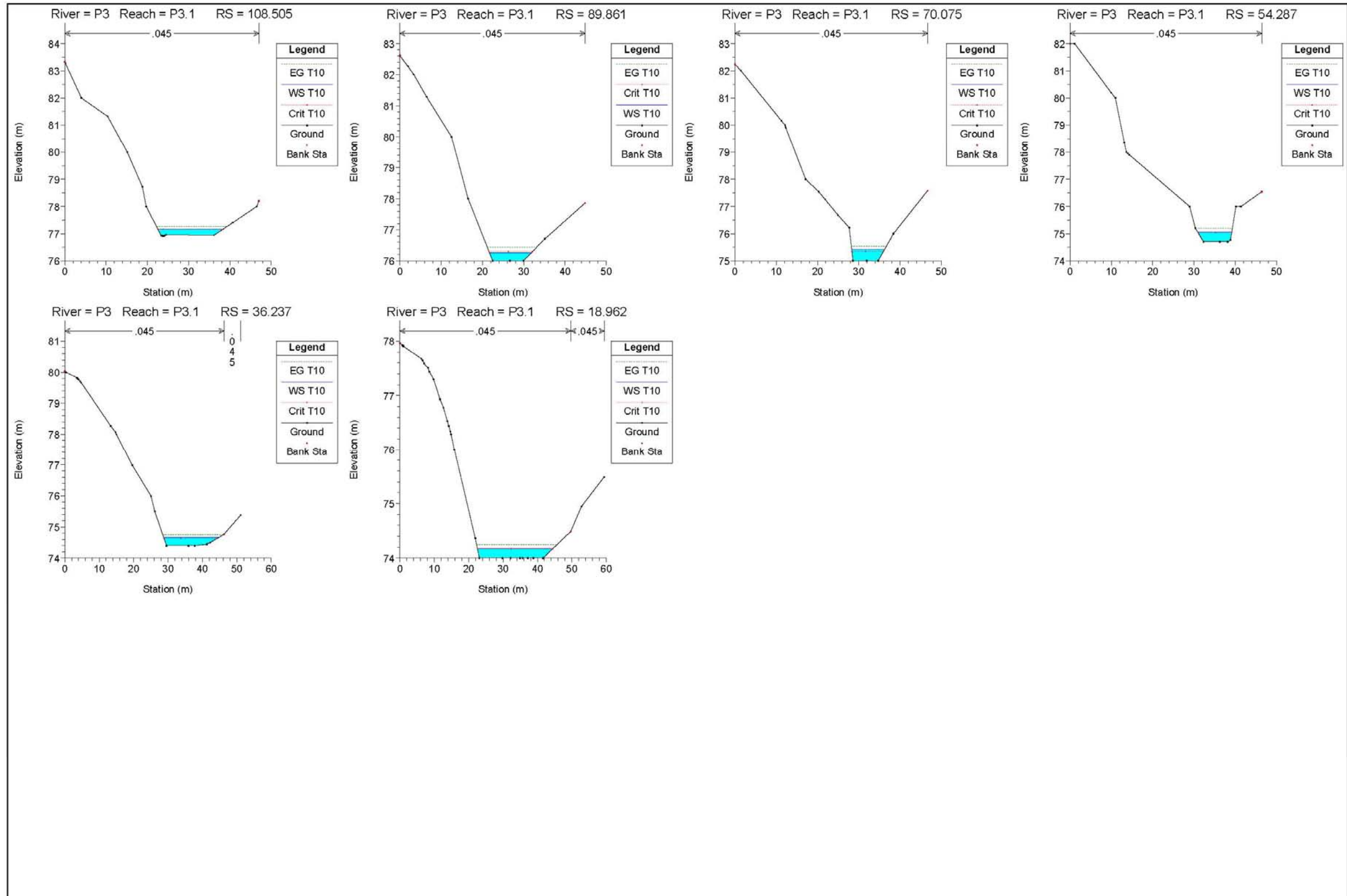




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- 3.1.4.- Tablas de resultados
 - 3.1.4.1.- Arroyo de Las Cañas
 - 3.1.4.2.- Arroyo de La Salud
 - 3.1.4.3.- Arroyo Pachurraco

3.1.4.1.- Arroyo de Las Cañas

HEC-RAS Plan: P1 Profile: T10

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
C3	C3.1	1838.136	T10	16.73	51.8	52.95	52.95	53.29	0.024496	2.59	6.45	9.41	1
C3	C3.1	1818.819	T10	16.73	51.65	52.59	52.56	52.79	0.022066	2.02	8.29	17.22	0.93
C3	C3.1	1799.253	T10	16.73	51.5	52.45		52.55	0.006359	1.39	12.06	17.03	0.53
C3	C3.1	1779.509	T10	16.73	51.35	52.28		52.4	0.008403	1.55	10.82	15.69	0.59
C3	C3.1	1758.163	T10	16.73	51.2	52.2		52.27	0.003898	1.17	14.32	18.02	0.42
C3	C3.1	1737.938	T10	16.73	51	52.15		52.21	0.002331	1.05	15.95	16.06	0.33
C3	C3.1	1718.946	T10	16.73	50.85	52.05		52.15	0.003986	1.37	12.2	11.57	0.43
C3	C3.1	1698.422	T10	16.73	50.7	51.99		52.07	0.002865	1.23	13.65	11.97	0.37
C3	C3.1	1679.155	T10	16.73	50.55	51.86		51.99	0.006236	1.6	10.46	11.44	0.53
C3	C3.1	1659.162	T10	16.73	50.4	51.47	51.47	51.75	0.024739	2.36	7.1	12.57	1
C3	C3.1	1638.923	T10	16.73	50.25	51.15	50.76	51.22	0.003867	1.19	14.05	17.09	0.42
C3	C3.1	1618.826	T10	16.73	50.1	51.09		51.15	0.00311	1.12	15.56	21.62	0.38
C3	C3.1	1598.512	T10	16.73	50	50.96		51.06	0.005558	1.43	12.38	20.96	0.5
C3	C3.1	1578.711	T10	16.73	49.85	50.75		50.91	0.009986	1.76	9.57	15.35	0.66
C3	C3.1	1558.859	T10	16.73	49.7	50.57		50.71	0.009898	1.72	10.61	21.15	0.65
C3	C3.1	1537.914	T10	16.73	49.5	50.48		50.55	0.004628	1.22	13.95	22.1	0.45
C3	C3.1	1519.354	T10	16.73	49.4	50.43		50.48	0.002709	1.03	16.49	22.72	0.35
C3	C3.1	1498.526	T10	16.73	49.23	50.11	50.11	50.33	0.027453	2.1	7.95	18.16	1.01
C3	C3.1	1477.674	T10	16.73	49	49.96	49.54	50.02	0.003555	1.13	14.82	18.31	0.4
C3	C3.1	1457.184	T10	16.73	48.85	49.86		49.94	0.004627	1.28	13.11	16.3	0.45
C3	C3.1	1438.105	T10	16.73	48.7	49.83	49.21	49.87	0.001981	0.93	18.02	18.97	0.3
C3	C3.1	1437		Culvert									
C3	C3.1	1417.988	T10	16.73	48.5	49.32		49.42	0.00496	1.44	11.62	14.47	0.51
C3	C3.1	1398.212	T10	16.73	48.4	49.22		49.32	0.005033	1.45	11.55	14.33	0.51
C3	C3.1	1378.459	T10	16.73	48.3	49.12		49.22	0.005	1.44	11.58	14.34	0.51
C3	C3.1	1357.817	T10	16.73	48.2	49.01		49.12	0.005171	1.46	11.46	14.29	0.52
C3	C3.1	1338.582	T10	16.73	48.1	48.91		49.02	0.005122	1.46	11.49	14.32	0.52
C3	C3.1	1319.44	T10	16.73	48	48.81		48.92	0.005076	1.45	11.52	14.31	0.52
C3	C3.1	1299.43	T10	16.73	47.9	48.71		48.82	0.005065	1.45	11.53	14.38	0.52
C3	C3.1	1280.788	T10	16.73	47.8	48.62	48.32	48.73	0.004936	1.44	11.62	14.33	0.51
C3	C3.1	1280		Bridge									
C3	C3.1	1198.766	T10	16.73	47.7	48.49		48.6	0.005626	1.5	11.16	14.32	0.54
C3	C3.1	1178.246	T10	16.73	47.6	48.35		48.48	0.006608	1.58	10.61	14.3	0.58
C3	C3.1	1160.64	T10	16.73	47.5	48.2		48.34	0.008358	1.7	9.86	14.28	0.65
C3	C3.1	1138.844	T10	16.73	47.3	47.87	47.82	48.09	0.016123	2.08	8.04	14.23	0.88
C3	C3.1	1118.85	T10	16.73	47	47.65		47.82	0.01052	1.82	9.18	14.32	0.73
C3	C3.1	1100.03	T10	16.73	46.8	47.46		47.62	0.010158	1.8	9.28	14.26	0.71
C3	C3.1	1080.81	T10	16.73	46.6	47.28		47.43	0.009169	1.75	9.58	14.24	0.68
C3	C3.1	1058.944	T10	16.73	46.4	47.06		47.23	0.009766	1.78	9.4	14.27	0.7
C3	C3.1	1038.838	T10	16.73	46.2	46.88		47.03	0.009299	1.75	9.54	14.2	0.68
C3	C3.1	1017.237	T10	16.73	46	46.66		46.82	0.010207	1.81	9.27	14.26	0.71

HEC-RAS Plan: P1 Profile: T10

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
C3	C3.1	997.937	T10	16.73	45.8	46.47		46.63	0.009335	1.76	9.53	14.27	0.69
C3	C3.1	976.548	T10	16.73	45.6	46.26		46.42	0.009919	1.79	9.35	14.26	0.71
C3	C3.1	956.33	T10	16.73	45.4	46.06		46.22	0.010101	1.8	9.3	14.3	0.71
C3	C3.1	937.264	T10	16.73	45.2	45.89		46.04	0.008609	1.71	9.77	14.3	0.66
C3	C3.1	917.377	T10	16.73	45	45.77		45.89	0.006159	1.54	10.85	14.31	0.57
C3	C3.1	897.313	T10	16.73	44.8	45.7	45.32	45.78	0.003628	1.3	12.82	14.58	0.44
C3	C3.1	896		Culvert									
C3	C3.1	856.378	T10	16.73	44.6	45.19		45.4	0.014118	2	8.38	14.28	0.83
C3	C3.1	836.737	T10	16.73	44.2	45.11		45.21	0.005096	1.39	12.82	22.09	0.48
C3	C3.1	816.433	T10	16.73	44	44.73	44.73	44.99	0.025074	2.29	7.3	13.68	1
C3	C3.1	797.259	T10	16.73	43.8	44.43	44.27	44.51	0.007579	1.33	13.6	27.36	0.56
C3	C3.1	777.164	T10	16.73	43.6	44.33		44.39	0.004342	1.16	16.86	35.85	0.44
C3	C3.1	757.243	T10	16.73	43.4	44.17		44.28	0.007328	1.42	12.61	30.9	0.56
C3	C3.1	738.072	T10	16.73	43.2	44.05		44.14	0.00639	1.31	13.31	33.63	0.52
C3	C3.1	717.777	T10	16.73	43	43.78		43.95	0.012634	1.84	9.11	14.05	0.73
C3	C3.1	698.421	T10	16.73	42.8	43.7		43.78	0.004966	1.28	13.11	17.53	0.47
C3	C3.1	676.777	T10	16.73	42.6	43.61		43.68	0.00411	1.23	13.6	16.58	0.43
C3	C3.1	657.323	T10	16.73	42.4	43.19	43.19	43.5	0.024555	2.46	6.8	11.19	1.01
C3	C3.1	638.553	T10	16.73	42	42.77	42.82	43.06	0.021475	2.45	7.55	17.43	0.94
C3	C3.1	616.994	T10	16.73	41.8	42.63	42.38	42.73	0.006776	1.36	12.31	18.89	0.54
C3	C3.1	597.069	T10	16.73	41.6	42.57		42.63	0.002963	1.05	16.05	20.62	0.37
C3	C3.1	574.813	T10	16.73	41.4	42.34		42.5	0.010801	1.78	9.38	13.52	0.68
C3	C3.1	556.676	T10	16.73	41.2	42.24		42.35	0.00577	1.49	11.53	16.64	0.51
C3	C3.1	536.9	T10	16.73	41	41.86	41.8	42.13	0.021654	2.31	7.26	11.29	0.92
C3	C3.1	517.177	T10	16.73	40.8	41.86		41.94	0.003426	1.22	13.71	16.24	0.4
C3	C3.1	496.673	T10	16.73	40.6	41.84		41.88	0.001638	0.84	19.93	21.64	0.28
C3	C3.1	475.741	T10	16.73	40.4	41.73		41.82	0.003745	1.37	12.2	11.27	0.42
C3	C3.1	457.572	T10	16.73	40	41.17	41.17	41.64	0.025892	3.05	5.48	5.84	1.01
C3	C3.1	436.504	T10	16.73	38.8	39.54	39.87	40.6	0.105704	4.58	3.65	6.98	2.02
C3	C3.1	417.509	T10	16.73	38.6	39.64	39.48	39.87	0.013166	2.11	7.94	10.14	0.76
C3	C3.1	397.068	T10	16.73	38.4	39.17	39.17	39.5	0.024414	2.53	6.6	10.2	1.01
C3	C3.1	377.579	T10	16.73	38.2	39.03	38.82	39.16	0.00889	1.57	10.68	16.23	0.62
C3	C3.1	356.452	T10	16.73	38	38.88		38.99	0.006692	1.49	11.23	14.74	0.54
C3	C3.1	337.593	T10	16.73	37.8	38.78		38.87	0.00518	1.39	12.07	14.41	0.48
C3	C3.1	316.817	T10	16.73	37.6	38.51		38.71	0.011519	1.97	8.48	10.7	0.71
C3	C3.1	297.185	T10	16.73	37.5	38.43		38.53	0.005459	1.43	11.73	13.86	0.49
C3	C3.1	277.754	T10	16.73	37.4	38.33		38.43	0.005041	1.36	12.34	14.77	0.47
C3	C3.1	236.448	T10	16.73	37.3	38.21		38.31	0.00586	1.42	11.78	14.57	0.5
C3	C3.1	216.937	T10	16.73	37.2	38.2		38.24	0.001745	0.84	19.82	22.3	0.29
C3	C3.1	196.802	T10	16.73	37.1	38.13		38.19	0.003738	1	16.84	29.62	0.4
C3	C3.1	176.433	T10	16.73	37	38.05	37.53	38.12	0.00296	1.14	14.63	14.1	0.36
C3	C3.1	176		Culvert									
C3	C3.1	117.012	T10	16.73	36.9	37.98		38.03	0.002158	1.01	16.63	16.09	0.32
C3	C3.1	97.541	T10	16.73	36.8	37.57	37.57	37.9	0.024855	2.55	6.56	10	1.01
C3	C3.1	76.34	T10	16.73	36.7	37.52	37.18	37.59	0.004366	1.19	14	18.53	0.44

HEC-RAS Plan: P1 Profile: T10

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
C3	C3.1	56.663	T10	16.73	36.6	37.41	37.09	37.49	0.005324	1.32	12.65	15.92	0.47
C3	C3.1	56		Culvert									
C3	C3.1	0.663	T10	16.73	36.5	37.2	36.99	37.32	0.008513	1.53	10.93	15.86	0.59
C2	C2.1	1469.282	T10	21.39	73	73.53	73.5	73.72	0.020454	1.89	11.31	24.52	0.89
C2	C2.1	1454.791	T10	21.39	72.7	73.22	73.19	73.41	0.021703	1.92	11.15	24.74	0.91
C2	C2.1	1434.316	T10	21.39	72.3	72.8	72.76	72.96	0.02129	1.81	11.81	28.23	0.89
C2	C2.1	1414.172	T10	21.39	72	72.57		72.67	0.009572	1.35	15.88	32.49	0.62
C2	C2.1	1395.321	T10	21.39	71.7	72.24	72.19	72.41	0.019418	1.83	11.67	25.56	0.87
C2	C2.1	1373.607	T10	21.39	71.4	71.83	71.79	71.98	0.01969	1.69	12.63	31.44	0.85
C2	C2.1	1354.259	T10	21.39	71.1	71.6		71.7	0.010089	1.35	15.82	33.41	0.63
C2	C2.1	1335.6	T10	21.39	70.6	71.27		71.44	0.017652	1.84	11.66	23.69	0.84
C2	C2.1	1315.827	T10	21.39	70.3	70.92	70.86	71.09	0.017812	1.82	11.73	24.09	0.83
C2	C2.1	1296.57	T10	21.39	70	70.47	70.47	70.67	0.027178	1.99	10.77	26.94	1
C2	C2.1	1277.54	T10	21.39	68.7	68.88	69.04	69.48	0.229313	3.41	6.26	34.35	2.55
C2	C2.1	1215.368	T10	21.39	68.3	68.8	68.78	68.97	0.02185	1.81	12.03	33.84	0.9
C2	C2.1	1196.021	T10	21.39	68	68.71		68.76	0.004829	0.96	22.21	45.06	0.44
C2	C2.1	1176.927	T10	21.39	67.9	68.59		68.65	0.006283	1.1	19.59	41.07	0.5
C2	C2.1	1158.364	T10	21.39	67.8	68.44		68.51	0.009084	1.22	17.49	39.82	0.59
C2	C2.1	1135.511	T10	21.39	67.6	68.36		68.4	0.002698	0.84	25.56	41.18	0.34
C2	C2.1	1113.266	T10	21.39	67.5	68.17	68.08	68.28	0.011836	1.5	15.4	44.19	0.68
C2	C2.1	1093.878	T10	21.39	67.3	67.84	67.8	67.98	0.021628	1.66	13.17	37.98	0.88
C2	C2.1	1074.977	T10	21.39	67	67.68		67.75	0.006831	1.14	18.79	38.39	0.52
C2	C2.1	1050.966	T10	21.39	66.7	67.4		67.52	0.013258	1.54	13.9	29.74	0.72
C2	C2.1	1036.906	T10	21.39	66.4	67.02	67.02	67.25	0.02626	2.14	9.98	21.61	1.01
C2	C2.1	1017.7	T10	21.39	66.1	66.53	66.5	66.68	0.02153	1.75	12.25	31.19	0.89
C2	C2.1	997.221	T10	21.39	65.8	66.29		66.38	0.009804	1.35	16.14	35.66	0.62
C2	C2.1	956.367	T10	21.39	65.5	65.88	65.88	66.04	0.02921	1.81	11.83	35.9	1.01
C2	C2.1	937.179	T10	21.39	64.8	65.31	65.4	65.63	0.067194	2.51	8.51	29.47	1.49
C2	C2.1	917.161	T10	21.39	64.5	65.02	65.02	65.21	0.028243	1.91	11.18	30.47	1.01
C2	C2.1	898.451	T10	21.39	64.2	64.92	64.67	64.98	0.004867	1.07	20.64	39.93	0.45
C2	C2.1	877.965	T10	21.39	64	64.78		64.86	0.006893	1.24	17.92	39.65	0.53
C2	C2.1	856.991	T10	21.39	63.8	64.53		64.65	0.014462	1.55	13.76	30.98	0.74
C2	C2.1	838.02	T10	21.39	63.6	64.37		64.45	0.006993	1.29	16.58	28.53	0.54
C2	C2.1	821.435	T10	21.39	63.4	64.31		64.36	0.003468	0.98	21.73	33.21	0.39
C2	C2.1	802.208	T10	21.39	63.2	63.93	63.93	64.2	0.025018	2.29	9.32	17.54	1
C2	C2.1	783.929	T10	21.39	63	63.87	63.46	63.92	0.002955	1.02	21.01	26.84	0.37
C2	C2.1	762.294	T10	21.39	62.82	63.75		63.83	0.006885	1.21	17.67	34.09	0.53
C2	C2.1	748.672	T10	21.39	62.6	63.61		63.74	0.006134	1.59	14.33	19.46	0.54
C2	C2.1	729.078	T10	21.39	62.4	63.46		63.6	0.007335	1.68	12.72	14.94	0.58
C2	C2.1	705.69	T10	21.39	62.2	63.43		63.48	0.002546	0.99	21.68	26.08	0.35
C2	C2.1	679.536	T10	21.39	61.7	63.32		63.41	0.002683	1.29	16.61	12.81	0.36
C2	C2.1	656.79	T10	21.39	61.5	63.22		63.34	0.00333	1.49	14.38	9.81	0.39
C2	C2.1	635.354	T10	21.39	61.3	62.61	62.61	63.14	0.025102	3.23	6.63	6.32	1.01
C2	C2.1	614.682	T10	21.39	61	61.46	61.69	62.22	0.094575	3.85	5.56	12.91	1.87
C2	C2.1	593.013	T10	21.39	60.8	61.46	61.44	61.65	0.024447	1.92	11.15	27.11	0.95

HEC-RAS Plan: P1 Profile: T10

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
C2	C2.1	568.436	T10	21.39	60.6	61.36		61.41	0.003833	1.03	21.16	35.33	0.41
C2	C2.1	547.506	T10	21.39	60.4	61.33		61.36	0.001573	0.72	29.98	41.97	0.27
C2	C2.1	525.754	T10	21.39	60	61.17		61.28	0.006739	1.53	13.97	17.94	0.55
C2	C2.1	503.646	T10	21.39	59.6	60.65	60.65	61.01	0.023396	2.66	8.05	11.33	1.01
C2	C2.1	484.904	T10	21.39	59.2	60.14	60.17	60.54	0.026002	2.82	7.59	10.53	1.06
C2	C2.1	463.535	T10	21.39	58.8	59.74	59.52	59.91	0.009504	1.81	11.82	14.98	0.65
C2	C2.1	439.133	T10	21.39	58.4	59.35		59.61	0.015464	2.27	9.41	12.17	0.82
C2	C2.1	418.098	T10	21.39	58	59.44		59.47	0.001275	0.75	28.34	30.05	0.25
C2	C2.1	394.318	T10	21.39	57.6	59.38		59.43	0.001987	1.02	21	19.7	0.31
C2	C2.1	377.658	T10	21.39	57.2	58.89	58.89	59.32	0.024247	2.89	7.4	8.75	1
C2	C2.1	357.897	T10	21.39	56.8	58.01	58.13	58.7	0.037404	3.68	5.82	5.81	1.17
C2	C2.1	294.817	T10	21.39	56.21	57.03	56.76	57.08	0.004051	0.98	22.1	41.26	0.41
C2	C2.1	276.434	T10	21.39	56	56.74	56.69	56.93	0.019735	1.91	11.21	23.36	0.88
C2	C2.1	258.02	T10	21.39	55.6	56.26	56.26	56.51	0.025544	2.23	9.59	19.16	1.01
C2	C2.1	237.126	T10	21.39	55.2	55.92	55.78	56.07	0.011955	1.73	12.35	20.33	0.71
C2	C2.1	217.176	T10	21.39	54.8	55.43	55.43	55.72	0.024736	2.39	8.96	15.6	1.01
C2	C2.1	197.489	T10	21.39	54.4	55.46	54.94	55.51	0.002539	1.03	20.73	23.08	0.35
C2	C2.1	178.006	T10	21.39	54	55.47		55.49	0.000407	0.54	39.94	29.8	0.15
C2	C2.1	157.16	T10	21.39	53.6	55.47		55.48	0.000154	0.39	55.13	31.45	0.09
C2	C2.1	136.512	T10	21.39	53.2	54.97	54.97	55.42	0.023682	2.98	7.19	8.11	1.01
C2	C2.1	116.266	T10	21.39	52.8	53.58	53.89	54.58	0.074838	4.44	4.82	7.07	1.72
C2	C2.1	97.062	T10	21.39	52.4	53.24	53.28	53.67	0.028072	2.91	7.36	9.77	1.07
C2	C2.1	78.243	T10	21.39	52	53.32	52.52	53.36	0.001224	0.86	24.73	19.22	0.24
C2	C2.1	58.666	T10	21.39	51.8	53.33		53.34	0.000336	0.5	42.41	29.68	0.13
C1	C1.1	5996.373	T10	18.83	214	215.21	215.21	215.55	0.024895	2.58	7.3	10.95	1.01
C1	C1.1	5978.632	T10	18.83	213.94	214.63	214.7	215.01	0.036733	2.73	6.89	13.16	1.21
C1	C1.1	5958.785	T10	18.83	213	213.43	213.6	213.98	0.075261	3.28	5.74	14.4	1.66
C1	C1.1	5938.551	T10	18.83	212.1	212.75	212.76	213.07	0.026752	2.49	7.56	13.01	1.04
C1	C1.1	5918.56	T10	18.83	210.4	211.28	211.54	212.11	0.091318	4.05	4.65	9.74	1.87
C1	C1.1	5899.869	T10	18.83	209.5	210.17	210.34	210.78	0.052095	3.47	5.43	9.06	1.43
C1	C1.1	5881.605	T10	18.83	208.3	209.68	209.71	210.13	0.026241	2.99	6.29	7.36	1.03
C1	C1.1	5865.917	T10	18.83	208.1	209	209.16	209.59	0.044126	3.42	5.51	8.45	1.35
C1	C1.1	5848.833	T10	18.83	207.94	208.63	208.71	209.06	0.035985	2.9	6.49	10.9	1.2
C1	C1.1	5831.294	T10	18.83	207.5	207.97	208.05	208.33	0.045383	2.67	7.05	16.5	1.3
C1	C1.1	5814.749	T10	18.83	207	207.68	207.68	207.96	0.024755	2.35	8.01	14.29	1
C1	C1.1	5799.366	T10	18.83	206	206.35	206.58	207.15	0.138298	3.96	4.75	14.09	2.18
C1	C1.1	5780.016	T10	18.83	205.6	206.32	206.23	206.49	0.014579	1.8	10.47	18.84	0.77
C1	C1.1	5757.96	T10	18.83	205.2	205.8	205.8	206.06	0.025431	2.25	8.35	16.3	1.01
C1	C1.1	5739.084	T10	18.83	204.8	205.25	205.28	205.51	0.034335	2.25	8.38	20.69	1.13
C1	C1.1	5730.177	T10	18.83	204.4	204.76	204.85	205.1	0.060885	2.59	7.27	22.29	1.45
C1	C1.1	5712.837	T10	18.83	203.88	204.39	204.39	204.62	0.02718	2.1	8.96	20.21	1.01
C1	C1.1	5695.937	T10	18.83	203.5	204.21	204.01	204.33	0.008227	1.49	12.62	19.33	0.59
C1	C1.1	5680		Inl Struct									
C1	C1.1	5660.462	T10	18.83	202	202.82	202.82	203.07	0.02635	2.22	8.49	17.32	1.01
C1	C1.1	5638.062	T10	18.83	201	201.46	201.65	202.07	0.0835	3.45	5.45	13.48	1.73

HEC-RAS Plan: P1 Profile: T10

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
C1	C1.1	5625.542	T10	18.83	200.5	201.15	201.23	201.56	0.036269	2.82	6.67	11.98	1.21
C1	C1.1	5603.476	T10	18.83	200	200.39	200.44	200.67	0.041675	2.33	8.08	21.74	1.22
C1	C1.1	5582.46	T10	18.83	198.4	199.19	199.32	199.69	0.048878	3.16	5.95	11.35	1.39
C1	C1.1	5562.116	T10	18.83	198	198.62	198.63	198.92	0.026085	2.42	7.77	13.69	1.03
C1	C1.1	5539.422	T10	18.83	197	197.84	197.51	197.93	0.004917	1.29	14.54	18.66	0.47
C1	C1.1	5519.593	T10	18.83	196.55	197.43	197.43	197.72	0.025019	2.37	7.93	14.09	1.01
C1	C1.1	5498.68	T10	18.83	196	196.48	196.61	196.95	0.05617	3.02	6.23	14.03	1.45
C1	C1.1	5478.12	T10	18.83	195	195.36	195.45	195.72	0.060171	2.67	7.05	20.17	1.44
C1	C1.1	5459.142	T10	18.83	194	194.97	194.97	195.34	0.024651	2.69	7	9.6	1
C1	C1.1	5438.171	T10	18.83	193.5	193.99	194.15	194.54	0.062785	3.28	5.74	12.31	1.53
C1	C1.1	5419.243	T10	18.83	193	193.59	193.47	193.74	0.013043	1.71	10.99	19.06	0.72
C1	C1.1	5399.045	T10	18.83	192.5	193.1	193.1	193.37	0.025367	2.3	8.18	15.3	1.01
C1	C1.1	5380.433	T10	18.83	192	192.46	192.52	192.78	0.039872	2.53	7.45	17.05	1.22
C1	C1.1	5362.702	T10	18.83	190	190.32	190.59	191.35	0.20195	4.51	4.18	13.57	2.59
C1	C1.1	5342.91	T10	18.83	189.6	190.35	190.35	190.64	0.024533	2.41	7.82	13.34	1
C1	C1.1	5325.43	T10	18.83	189.2	189.81	189.86	190.14	0.032883	2.56	7.35	14.2	1.14
C1	C1.1	5309.371	T10	18.83	188.8	189.39	189.47	189.77	0.040103	2.76	6.83	13.72	1.25
C1	C1.1	5297.111	T10	18.83	188.4	189.05	189.06	189.35	0.027029	2.42	7.78	14.14	1.04
C1	C1.1	5280.099	T10	18.83	188	188.67	188.58	188.87	0.015419	1.94	9.68	15.99	0.8
C1	C1.1	5258.544	T10	18.83	187.5	188.18	188.18	188.44	0.025535	2.24	8.39	16.56	1.01
C1	C1.1	5239.32	T10	18.83	187	187.72	187.68	187.98	0.020863	2.25	8.38	13.88	0.92
C1	C1.1	5219.063	T10	18.83	186.5	187.18	187.18	187.5	0.025307	2.53	7.43	11.47	1.01
C1	C1.1	5199.923	T10	18.83	185.93	186.83	186.58	186.97	0.008183	1.66	11.35	14.39	0.6
C1	C1.1	5198.5		Inl Struct									
C1	C1.1	5179.124	T10	18.83	182	183.87		184.12	0.012185	2.22	8.47	9.02	0.73
C1	C1.1	5159.48	T10	18.83	181	183.28	183.28	183.76	0.027751	3.05	6.17	6.66	1.01
C1	C1.1	5138.905	T10	18.83	180	181.69	182.05	182.81	0.074954	4.69	4.02	4.75	1.63
C1	C1.1	5118.69	T10	18.83	179	180.58	179.69	180.65	0.001932	1.13	16.72	10.9	0.29
C1	C1.1	5099.07	T10	18.83	178	180.46		180.59	0.00371	1.57	12.01	7.97	0.41
C1	C1.1	5079.385	T10	18.83	177.5	179.86	179.86	180.39	0.03149	3.21	5.86	5.59	1
C1	C1.1	5059.627	T10	18.83	177	178.17	178.55	179.36	0.08435	4.84	3.89	4.7	1.7
C1	C1.1	5039.622	T10	18.83	176.5	177.87	177.28	177.98	0.004122	1.49	12.6	9.9	0.42
C1	C1.1	5020.253	T10	18.83	176	177.29	177.29	177.79	0.024544	3.12	6.03	6.08	1
C1	C1.1	5009.219	T10	18.83	175.5	176.61	176.12	176.7	0.004008	1.36	13.82	12.76	0.42
C1	C1.1	4988.829	T10	18.83	175	176.56		176.64	0.002421	1.25	15.12	10.73	0.34
C1	C1.1	4955.449	T10	18.83	174.5	176.07	176.07	176.42	0.025278	2.64	7.14	10.2	1.01
C1	C1.1	4924.211	T10	18.83	174	175.27	174.83	175.41	0.006021	1.68	11.19	10.17	0.51
C1	C1.1	4907.519	T10	18.83	173.5	175.17		175.31	0.005937	1.64	11.48	11.46	0.52
C1	C1.1	4880.231	T10	18.83	173.18	174.82		175.07	0.012446	2.23	8.44	8.99	0.73
C1	C1.1	4864.313	T10	18.83	173.01	174.64		174.86	0.012784	2.1	8.98	10.55	0.73
C1	C1.1	4841.151	T10	18.83	172.5	174.17	174.17	174.44	0.027501	2.31	8.17	15.67	1.02
C1	C1.1	4824.646	T10	18.83	172.19	172.87	173.08	173.6	0.104318	3.79	4.97	12.77	1.94
C1	C1.1	4803.888	T10	18.83	171.6	172.92	172.77	173.1	0.014552	1.9	9.92	16.43	0.78
C1	C1.1	4784.237	T10	18.83	171.2	172.45	172.42	172.74	0.022513	2.39	7.87	12.34	0.96
C1	C1.1	4759.459	T10	18.83	170.8	172.4		172.48	0.003865	1.31	14.39	14.97	0.43

HEC-RAS Plan: P1 Profile: T10

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
C1	C1.1	4739.7	T10	18.83	170.4	172.41		172.44	0.000601	0.73	25.77	14.27	0.17
C1	C1.1	4718.547	T10	18.83	170.2	172.4		172.43	0.000574	0.73	25.75	13.27	0.17
C1	C1.1	4699.012	T10	18.83	170	172.4	170.9	172.42	0.000382	0.52	36.93	30.37	0.14
C1	C1.1	4698		Culvert									
C1	C1.1	4679.745	T10	18.83	170	170.56	170.56	170.79	0.026301	2.12	8.87	19.5	1
C1	C1.1	4659.18	T10	18.83	169	169.36	169.51	169.87	0.084426	3.16	5.97	17.29	1.71
C1	C1.1	4639.687	T10	18.83	168	168.75	168.45	168.83	0.005302	1.27	14.77	20.1	0.47
C1	C1.1	4619.257	T10	18.83	167	168.19	168.19	168.6	0.02428	2.82	6.68	8.35	1.01
C1	C1.1	4598.438	T10	18.83	166	167.15	166.69	167.27	0.005135	1.54	12.21	10.79	0.46
C1	C1.1	4598		Culvert									
C1	C1.1	4579.392	T10	18.83	165.12	166.67		166.72	0.00166	1.04	18.05	12.57	0.28
C1	C1.1	4560.917	T10	18.83	165	166.23	166.23	166.61	0.024109	2.73	6.9	9.19	1.01
C1	C1.1	4543.156	T10	18.83	164.5	165.82	165.75	166.14	0.018216	2.5	7.52	9.45	0.9
C1	C1.1	4519.84	T10	18.83	164	165.31	165.31	165.65	0.024217	2.58	7.31	11.06	1.01
C1	C1.1	4499.784	T10	18.83	163.5	164.57	164.66	165.06	0.034258	3.12	6.03	8.3	1.17
C1	C1.1	4476.863	T10	18.83	163	163.69	163.81	164.2	0.041276	3.15	5.97	9.78	1.29
C1	C1.1	4457.221	T10	18.83	162.5	163.13	163.03	163.31	0.014907	1.89	9.99	16.79	0.78
C1	C1.1	4433.327	T10	18.83	162	162.96		163.06	0.006437	1.45	12.99	17.43	0.54
C1	C1.1	4417.309	T10	18.83	161.5	162.93		162.99	0.002112	1.06	17.71	16.01	0.32
C1	C1.1	4398.605	T10	18.83	161	162.52	162.52	162.87	0.025176	2.63	7.17	10.41	1.01
C1	C1.1	4375.989	T10	18.83	160.5	161.66	161.77	162.17	0.037271	3.16	5.95	9.06	1.25
C1	C1.1	4356.825	T10	18.83	160	161.37	161.37	161.71	0.023855	2.6	7.24	10.58	1
C1	C1.1	4338.287	T10	18.83	159.5	160.8	160.87	161.2	0.031405	2.81	6.7	10.75	1.14
C1	C1.1	4320.097	T10	18.83	159	159.49	159.72	160.26	0.091453	3.88	4.85	10.7	1.84
C1	C1.1	4302.861	T10	18.83	158.5	159.79	159.51	159.95	0.008362	1.75	10.74	13.02	0.62
C1	C1.1	4280.449	T10	18.83	158	159.31	159.31	159.63	0.024	2.53	7.44	11.42	1
C1	C1.1	4260.488	T10	18.83	157.2	158	158.26	158.83	0.06712	4.03	4.67	7.55	1.64
C1	C1.1	4240.231	T10	18.83	156.4	156.99	157.13	157.55	0.052674	3.33	5.65	9.82	1.4
C1	C1.1	4222.402	T10	18.83	156	157.25	156.57	157.3	0.001649	0.94	19.99	17.97	0.29
C1	C1.1	4199.309	T10	18.83	155.5	156.9		157.19	0.014608	2.38	7.9	8.9	0.81
C1	C1.1	4183.133	T10	18.83	155	156.45	156.45	156.88	0.023462	2.89	6.52	7.7	1
C1	C1.1	4161.634	T10	18.83	154.68	155.79	155.9	156.22	0.041926	2.89	6.52	12.66	1.29
C1	C1.1	4141.126	T10	18.83	154	155.38	155.36	155.71	0.022335	2.56	7.37	10.53	0.97
C1	C1.1	4119.923	T10	18.83	153.5	155.01	154.91	155.29	0.016763	2.33	8.09	10.7	0.85
C1	C1.1	4100.303	T10	18.83	153	155.19		155.2	0.000147	0.4	46.95	23.59	0.09
C1	C1.1	4080.034	T10	18.83	152.5	155.19		155.2	0.000137	0.4	47.47	22.15	0.09
C1	C1.1	4059.232	T10	18.83	152	155.18	153.03	155.19	0.000124	0.39	48.17	21.71	0.08
C1	C1.1	4058		Culvert									
C1	C1.1	4039.077	T10	18.83	151.5	152.85	152.85	153.31	0.02696	3	6.28	6.97	1.01
C1	C1.1	4019.605	T10	18.83	151	152	152.16	152.57	0.05504	3.34	5.63	10.77	1.48
C1	C1.1	3999.155	T10	18.83	150	151.18	151.28	151.7	0.03316	3.2	5.89	7.92	1.18
C1	C1.1	3979.759	T10	18.83	149	149.89	150.14	150.69	0.085893	3.97	4.74	9.75	1.82
C1	C1.1	3959.431	T10	18.83	148	149.5	149.5	149.88	0.023775	2.73	6.89	9.21	1.01
C1	C1.1	3938.746	T10	18.83	147	149.19	148.85	149.38	0.009727	1.92	9.79	10.66	0.64
C1	C1.1	3918.177	T10	18.83	146.55	148.8	148.8	149.08	0.022067	2.37	8.55	17.57	0.9

HEC-RAS Plan: P1 Profile: T10

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
C1	C1.1	3898.948	T10	18.83	146	147.99	148.05	148.55	0.030966	3.34	5.64	5.84	1.08
C1	C1.1	3877.045	T10	18.83	145.5	147.35	147.39	147.91	0.028143	3.31	5.69	5.66	1.05
C1	C1.1	3857.909	T10	18.83	145	146.66	146.79	147.29	0.036641	3.53	5.34	6.22	1.21
C1	C1.1	3840.535	T10	18.83	144.5	145.06	145.39	146.19	0.11771	4.71	4	7.54	2.07
C1	C1.1	3822.051	T10	18.83	144	145.4	144.8	145.5	0.003849	1.4	13.41	11.39	0.41
C1	C1.1	3803.668	T10	18.83	143.5	145.35		145.43	0.002666	1.24	15.2	12.83	0.36
C1	C1.1	3790.337	T10	18.83	143	145.13		145.35	0.01251	2.08	9.06	10.59	0.72
C1	C1.1	3771.933	T10	18.83	142.5	144.9		145.11	0.013349	2.04	9.29	11.99	0.73
C1	C1.1	3756.712	T10	18.83	142	144.46	144.46	144.81	0.029004	2.62	7.2	10.74	1.02
C1	C1.1	3735.919	T10	18.83	141.6	143.17	143.41	143.94	0.060797	3.87	4.87	7.07	1.49
C1	C1.1	3713.753	T10	18.83	141.2	142.86	142.81	143.25	0.021787	2.77	6.8	7.78	0.95
C1	C1.1	3695.287	T10	18.83	140.8	142.43	142.43	142.82	0.024621	2.77	6.8	8.83	1.01
C1	C1.1	3678.843	T10	18.83	140.38	141.76	141.88	142.32	0.037188	3.3	5.7	7.72	1.23
C1	C1.1	3660.466	T10	18.83	140	141.37	141.39	141.74	0.025976	2.7	6.97	10.23	1.05
C1	C1.1	3640.903	T10	18.83	139.6	141.13	140.8	141.23	0.005733	1.39	13.57	17.74	0.5
C1	C1.1	3620.112	T10	18.83	139.2	140.66	140.66	140.99	0.024419	2.54	7.41	11.3	1
C1	C1.1	3600.642	T10	18.83	138.8	140.08	140.18	140.5	0.024535	2.89	6.74	14.02	1.03
C1	C1.1	3580.392	T10	18.83	138.4	139.6	139.4	139.76	0.010306	1.75	10.79	15.65	0.67
C1	C1.1	3560.166	T10	18.83	138	139.15	139.15	139.43	0.025043	2.38	7.92	14.05	1.01
C1	C1.1	3541.204	T10	18.83	137.6	138.33	138.45	138.79	0.046144	2.99	6.29	12.42	1.34
C1	C1.1	3483.019	T10	18.83	137.2	138.37	137.57	138.39	0.000581	0.56	33.35	29.9	0.17
C1	C1.1	3465.752	T10	18.83	136.8	138.35		138.37	0.000694	0.65	28.84	23.92	0.19
C1	C1.1	3446.775	T10	18.83	136.4	138.35		138.36	0.000287	0.47	39.86	27.82	0.13
C1	C1.1	3427.067	T10	18.83	136	138.12	138.12	138.33	0.032213	1.99	9.48	25.05	1.03
C1	C1.1	3409.923	T10	18.83	136	136.31	136.55	137.17	0.175107	4.1	4.59	15.52	2.41
C1	C1.1	3390.836	T10	18.83	135.98	136.74	136.45	136.83	0.00528	1.27	14.8	20.61	0.48
C1	C1.1	3369.556	T10	18.83	135.97	136.59	136.41	136.68	0.008546	1.37	13.7	24.5	0.59
C1	C1.1	3350		Inl Struct									
C1	C1.1	3341.107	T10	18.83	134	134.5	134.5	134.74	0.026442	2.13	8.85	19.4	1
C1	C1.1	3321.536	T10	18.83	133.5	134.04	133.98	134.21	0.017472	1.81	10.42	21.38	0.83
C1	C1.1	3302.587	T10	18.83	133	133.88		133.98	0.007277	1.46	12.89	18.83	0.56
C1	C1.1	3282.279	T10	18.83	132.5	133.42	133.42	133.72	0.024701	2.41	7.8	13.35	1.01
C1	C1.1	3262.454	T10	18.83	132	132.61	132.72	133.06	0.043599	2.99	6.29	11.86	1.31
C1	C1.1	3241.513	T10	18.83	131.5	132.17	132.17	132.5	0.025006	2.52	7.49	11.72	1
C1	C1.1	3222.218	T10	18.83	131	131.57	131.62	131.93	0.034039	2.67	7.05	12.73	1.15
C1	C1.1	3202.633	T10	18.83	130.5	131.26	131.05	131.4	0.008576	1.62	11.62	15.81	0.6
C1	C1.1	3182.679	T10	18.83	130	131.28		131.32	0.001278	0.85	22.03	18.6	0.25
C1	C1.1	3160.689	T10	18.83	129.8	130.9	130.9	131.21	0.024861	2.48	7.6	12.33	1.01
C1	C1.1	3137.795	T10	18.83	129.4	129.79	129.93	130.28	0.073765	3.11	6.06	16.12	1.62
C1	C1.1	3117.227	T10	18.83	129	129.65	129.46	129.77	0.008766	1.51	12.51	19.53	0.6
C1	C1.1	3099.692	T10	18.83	128.8	129.59		129.66	0.003772	1.12	16.79	21.63	0.41
C1	C1.1	3079.369	T10	18.83	128.4	129.29	129.2	129.5	0.016164	2.05	9.17	14.62	0.83
C1	C1.1	3060.323	T10	18.83	128	128.81	128.81	129.12	0.024346	2.46	7.66	12.6	1.01
C1	C1.1	3038.98	T10	18.83	127	128.4	128.23	128.64	0.014005	2.18	8.64	10.17	0.76
C1	C1.1	3017.502	T10	18.83	126.5	127.84	127.84	128.24	0.023898	2.81	6.69	8.42	1.01

HEC-RAS Plan: P1 Profile: T10

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
C1	C1.1	2998.514	T10	18.83	126	126.69	126.93	127.47	0.072363	3.91	4.82	8.69	1.68
C1	C1.1	2977.567	T10	18.83	125.5	126.4	126.15	126.56	0.008669	1.75	10.77	13.02	0.61
C1	C1.1	2958.69	T10	18.83	125	125.88	125.88	126.28	0.024063	2.78	6.78	8.74	1.01
C1	C1.1	2941.617	T10	18.83	124.5	126.05	125.11	126.08	0.000959	0.78	24.11	19.21	0.22
C1	C1.1	2890		Culvert									
C1	C1.1	2881.144	T10	18.83	124	125.07		125.13	0.002571	1.04	18.02	19.65	0.35
C1	C1.1	2859.408	T10	18.83	123.5	124.6	124.6	124.97	0.02171	2.96	7.28	9.89	0.91
C1	C1.1	2841.026	T10	18.83	123	123.37	123.59	124.08	0.144553	3.74	5.03	17.04	2.2
C1	C1.1	2823.397	T10	18.83	122.5	123.18	123.18	123.43	0.02581	2.2	8.57	17.66	1.01
C1	C1.1	2804.038	T10	18.83	122	122.53	122.59	122.83	0.037365	2.39	7.87	18.83	1.18
C1	C1.1	2763.553	T10	18.83	121.5	121.92	121.95	122.18	0.035824	2.28	8.25	20.25	1.14
C1	C1.1	2743.825	T10	18.83	121	121.79	121.42	121.85	0.003407	1.07	17.68	22.99	0.39
C1	C1.1	2722.288	T10	18.83	120.5	121.41	121.41	121.67	0.025754	2.26	8.35	16.48	1.01
C1	C1.1	2702.99	T10	18.83	120	120.71	120.79	121.06	0.038061	2.64	7.13	14.79	1.21
C1	C1.1	2682.432	T10	18.83	119.7	120.19	120.03	120.26	0.008372	1.21	15.55	33.7	0.57
C1	C1.1	2661.319	T10	18.83	119.4	119.91		120.03	0.013823	1.57	11.99	25.56	0.73
C1	C1.1	2643.263	T10	18.83	119.1	119.72		119.83	0.008835	1.45	12.96	21.87	0.6
C1	C1.1	2626.371	T10	18.83	118.9	119.66		119.72	0.003612	1.07	17.54	23.68	0.4
C1	C1.1	2603.79	T10	18.83	118.8	119.37		119.55	0.018074	1.92	9.78	18.35	0.84
C1	C1.1	2583.12	T10	18.83	118.5	119.13		119.26	0.010306	1.59	11.82	19.22	0.65
C1	C1.1	2562.669	T10	18.83	118.2	118.8	118.73	118.99	0.016399	1.92	9.78	17.23	0.82
C1	C1.1	2543.273	T10	18.83	117.9	118.4	118.39	118.61	0.024396	2	9.43	21.35	0.96
C1	C1.1	2525.928	T10	18.83	117.6	118.2		118.31	0.010753	1.51	12.5	23.22	0.66
C1	C1.1	2517.33	T10	18.83	117.3	117.91	117.91	118.16	0.025787	2.2	8.56	17.56	1.01
C1	C1.1	2502.029	T10	18.83	116.92	117.69	117.48	117.79	0.008162	1.41	13.36	22.55	0.58
C1	C1.1	2482.454	T10	18.83	116.7	117.28	117.28	117.51	0.026461	2.13	8.85	19.48	1.01
C1	C1.1	2461.822	T10	18.83	115.98	116.36	116.45	116.71	0.06008	2.63	7.15	21.15	1.45
C1	C1.1	2445.732	T10	18.83	115.5	115.97	115.97	116.2	0.026552	2.11	8.94	19.96	1
C1	C1.1	2420.441	T10	18.83	114.8	115.27	115.28	115.51	0.027792	2.17	8.69	19.01	1.02
C1	C1.1	2360.817	T10	9.79	113.32	113.72	113.86	114.22	0.165249	3.12	3.14	15.46	2.21
C1	C1.1	2360		Inl Struct									
C1	C1.1	2336.237	T10	9.79	111.98	112.3	112.3	112.44	0.031051	1.68	5.84	20.65	1.01
C1	C1.1	2314.552	T10	9.79	111.2	111.6	111.6	111.77	0.030563	1.86	5.25	15.74	1.03
C1	C1.1	2287.576	T10	9.79	110.4	110.79	110.81	111	0.033909	2.02	4.84	13.78	1.09
C1	C1.1	2264.415	T10	9.79	109.6	109.96	109.99	110.18	0.036843	2.08	4.7	13.44	1.12
C1	C1.1	2244.375	T10	9.79	108.8	109.08	109.13	109.31	0.05177	2.12	4.61	16.66	1.29
C1	C1.1	2222.702	T10	9.79	108	108.97	108.6	109.03	0.004017	1.05	9.37	14.44	0.41
C1	C1.1	2200.789	T10	9.79	107.95	108.69		108.86	0.014999	1.84	5.31	9.23	0.78
C1	C1.1	2185.027	T10	9.79	107.95	108.57	108.42	108.66	0.008941	1.28	7.62	15.67	0.59
C1	C1.1	2180		Inl Struct									
C1	C1.1	2165.686	T10	9.79	106.04	107.09	107.09	107.39	0.026224	2.45	4	6.7	1.01
C1	C1.1	2144.403	T10	9.79	105.7	106	106.13	106.43	0.092426	2.89	3.39	12	1.74
C1	C1.1	2124.89	T10	9.79	105.4	105.99	105.83	106.1	0.009511	1.42	6.89	12.66	0.61
C1	C1.1	2104.021	T10	12.55	105.1	105.97		106	0.002043	0.86	14.59	17.6	0.3
C1	C1.1	2085.232	T10	12.55	104.8	105.95		105.97	0.000853	0.66	18.99	17.05	0.2

HEC-RAS Plan: P1 Profile: T10

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
C1	C1.1	2066.716	T10	12.55	104.5	105.47	105.47	105.89	0.026478	2.87	4.37	5.26	1.01
C1	C1.1	2043.051	T10	12.55	104.2	104.91	104.8	105.07	0.014086	1.79	7.02	12.4	0.76
C1	C1.1	2023.915	T10	12.55	103.92	104.48	104.48	104.71	0.026472	2.13	5.89	12.88	1
C1	C1.1	2003.037	T10	12.55	103.5	103.88	103.9	104.09	0.032158	2.02	6.2	16.96	1.07
C1	C1.1	1983.141	T10	12.55	103	103.29	103.37	103.6	0.063918	2.44	5.15	17.76	1.44
C1	C1.1	1964.157	T10	12.55	102.5	102.87	102.87	103.06	0.029109	1.91	6.57	17.81	1
C1	C1.1	1943.137	T10	12.55	102	102.59	102.34	102.64	0.004623	1.03	12.23	21.12	0.43
C1	C1.1	1923.263	T10	12.55	101.5	102.15	102.15	102.44	0.025578	2.39	5.25	9.15	1.01
C1	C1.1	1882.649	T10	12.55	101	102.13	101.32	102.14	0.000421	0.47	26.91	25.2	0.14
C1	C1.1	1863.598	T10	12.55	100.5	102.13		102.14	0.000096	0.28	44.57	28.39	0.07
C1	C1.1	1844.103	T10	12.55	100	102.1		102.13	0.001175	0.78	16.64	23.11	0.24
C1	C1.1	1824.298	T10	12.55	99.8	102.06		102.1	0.001751	0.94	14.05	26.63	0.29
C1	C1.1	1803.611	T10	12.55	99.6	101.75	101.43	102	0.013417	2.23	5.63	5.17	0.68
C1	C1.1	1785.82	T10	12.55	99.4	101.2	101.2	101.65	0.028172	2.97	4.22	4.7	1
C1	C1.1	1765.511	T10	12.55	99.2	99.51	99.76	100.42	0.184652	4.22	2.97	9.9	2.46
C1	C1.1	1743.051	T10	12.55	99	99.6	99.6	99.81	0.027143	2.06	6.1	14.32	1.01
C1	C1.1	1723.093	T10	12.55	98.8	99.25	99.14	99.34	0.012294	1.38	9.09	21.34	0.68
C1	C1.1	1703.307	T10	12.55	98.6	98.91	98.88	99.02	0.021757	1.48	8.46	27.61	0.86
C1	C1.1	1684.191	T10	12.55	98.2	98.5	98.47	98.6	0.02227	1.45	8.68	29.83	0.86
C1	C1.1	1664.712	T10	12.55	97.8	98.16	98.09	98.25	0.014258	1.33	9.44	26.26	0.71
C1	C1.1	1645.33	T10	12.55	97.4	97.7	97.7	97.86	0.030557	1.72	7.28	24.27	1.01
C1	C1.1	1624.291	T10	12.55	97	97.48	97.29	97.54	0.005759	1.01	12.37	26.18	0.47
C1	C1.1	1603.678	T10	12.55	96.6	97.12	97.08	97.32	0.021544	1.98	6.33	13.03	0.91
C1	C1.1	1582.233	T10	12.55	96.2	96.71	96.65	96.88	0.018734	1.85	6.8	13.59	0.83
C1	C1.1	1562.95	T10	12.55	95.8	96.23	96.23	96.44	0.028132	2.03	6.17	14.76	1
C1	C1.1	1542.966	T10	12.55	95.4	95.86	95.67	95.91	0.005718	0.97	12.99	29.31	0.46
C1	C1.1	1483.485	T10	12.55	95	95.45	95.45	95.68	0.027753	2.09	6.01	13.67	1.01
C1	C1.1	1463.895	T10	12.55	94.6	95.03	94.89	95.09	0.008311	1.13	11.1	26.11	0.55
C1	C1.1	1444.249	T10	12.55	94.2	94.66	94.62	94.84	0.021411	1.86	6.75	15.15	0.89
C1	C1.1	1424.101	T10	12.55	93.8	94.64		94.69	0.002398	0.9	13.98	18.25	0.33
C1	C1.1	1403.837	T10	12.55	93.4	94.28	94.28	94.55	0.026214	2.31	5.43	10.09	1.01
C1	C1.1	1380.787	T10	12.55	93	93.41	93.48	93.74	0.047586	2.57	4.89	12.03	1.28
C1	C1.1	1344.367	T10	12.55	92.6	93.22	92.91	93.25	0.00294	0.82	15.31	27.15	0.35
C1	C1.1	1324.218	T10	12.55	92.2	93.21		93.22	0.000485	0.46	27.21	29.15	0.15
C1	C1.1	1303.624	T10	12.55	92.1	93.21		93.21	0.000299	0.39	32.54	31.38	0.12
C1	C1.1	1283.849	T10	12.55	92	92.88	92.88	93.17	0.025262	2.38	5.27	9.25	1.01
C1	C1.1	1262.988	T10	12.55	91.8	92.09	92.16	92.38	0.063344	2.37	5.29	19	1.44
C1	C1.1	1242.503	T10	12.55	91.4	91.77	91.72	91.88	0.017985	1.49	8.42	23.65	0.8
C1	C1.1	1222.022	T10	12.55	91	91.42	91.35	91.54	0.0158	1.51	8.32	20.76	0.76
C1	C1.1	1201.759	T10	12.55	90.6	90.94	90.94	91.11	0.029443	1.8	6.98	21.42	1
C1	C1.1	1183.039	T10	12.55	90.2	90.77	90.55	90.82	0.005259	1.02	12.36	24.48	0.46
C1	C1.1	1163.023	T10	12.55	89.9	90.77		90.78	0.00061	0.48	26.37	32.13	0.17
C1	C1.1	1123.117	T10	12.55	89.6	90.38	90.36	90.71	0.024623	2.58	4.87	6.92	0.98
C1	C1.1	1102.258	T10	12.55	89.3	89.91	89.91	90.16	0.025888	2.25	5.58	10.99	1.01
C1	C1.1	1083.038	T10	12.55	89	89.67	89.49	89.79	0.009865	1.56	8.04	13.01	0.63

HEC-RAS Plan: P1 Profile: T10

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
C1	C1.1	1063.314	T10	12.55	88.6	89.29	89.26	89.5	0.023229	2.03	6.18	13.11	0.94
C1	C1.1	1043.42	T10	12.55	88.3	89.36		89.38	0.001004	0.66	19.01	20.47	0.22
C1	C1.1	1023.518	T10	12.55	88	89.1	89.06	89.31	0.020621	2.04	6.17	11.87	0.9
C1	C1.1	1003.465	T10	12.55	87.7	88.59	88.59	88.85	0.026023	2.23	5.62	11.28	1.01
C1	C1.1	984.224	T10	12.55	87.4	87.84	87.92	88.19	0.045788	2.6	4.83	11.68	1.29
C1	C1.1	963.777	T10	12.55	87	87.55	87.43	87.67	0.011552	1.52	8.24	15.87	0.67
C1	C1.1	943.808	T10	12.55	86.7	87.26		87.41	0.014509	1.73	7.27	13.49	0.75
C1	C1.1	923.438	T10	12.55	86.4	86.81	86.81	87	0.028079	1.97	6.38	16.34	1.01
C1	C1.1	904.092	T10	12.55	86	86.27	86.36	86.6	0.081125	2.57	4.89	18.66	1.6
C1	C1.1	883.51	T10	12.55	85.7	86.29	86.06	86.35	0.005534	1.11	11.34	20.06	0.47
C1	C1.1	864.841	T10	12.55	85.4	86.16		86.24	0.005941	1.33	9.46	13.19	0.5
C1	C1.1	844.407	T10	12.55	85	85.77	85.77	86	0.027269	2.16	5.81	12.43	1.01
C1	C1.1	824.884	T10	12.55	84.7	85.38	85.15	85.47	0.007303	1.38	9.08	13.91	0.55
C1	C1.1	805.731	T10	12.55	84.4	85.28		85.34	0.005508	1.16	10.81	18.14	0.48
C1	C1.1	784.602	T10	12.55	83.99	85.2		85.25	0.003473	1	12.53	18.54	0.39
C1	C1.1	764.035	T10	12.55	83.7	84.7	84.7	85.06	0.025346	2.69	4.67	6.42	1.01
C1	C1.1	743.158	T10	12.55	83.3	83.65	83.8	84.16	0.086309	3.15	3.98	11.49	1.71
C1	C1.1	722.207	T10	12.55	83	83.69	83.44	83.78	0.006146	1.29	9.75	14.71	0.5
C1	C1.1	704.188	T10	12.55	82	83.32		83.58	0.016952	2.28	5.5	7.06	0.82
C1	C1.1	685.207	T10	12.55	81.68	83.19		83.35	0.007321	1.81	6.94	6.28	0.55
C1	C1.1	604.348	T10	12.55	81.4	82.65	82.65	83.07	0.02626	2.87	4.38	5.3	1.01
C1	C1.1	584.113	T10	12.55	81	82.14	81.72	82.25	0.005135	1.44	8.7	9.29	0.48
C1	C1.1	564.455	T10	12.55	80.5	82.19		82.2	0.000408	0.55	22.72	15.22	0.14
C1	C1.1	544.124	T10	12.55	80	82.13		82.18	0.002326	1	12.54	12.63	0.32
C1	C1.1	524.003	T10	12.55	79.7	82.04		82.12	0.003294	1.28	9.95	12.29	0.37
C1	C1.1	503.767	T10	12.55	79.37	81.82		82.01	0.009225	1.91	6.57	5.47	0.56
C1	C1.1	484.118	T10	12.55	79	81.16	81.16	81.66	0.034311	3.15	3.99	4.01	1.01
C1	C1.1	464.806	T10	12.55	78.7	79.17	79.5	80.36	0.158048	4.84	2.59	5.87	2.32
C1	C1.1	445.237	T10	12.55	78.4	79.17	79.17	79.52	0.025786	2.62	4.79	6.93	1.01
C1	C1.1	424.072	T10	12.55	78	79.12	78.7	79.23	0.005235	1.46	8.57	9.05	0.48
C1	C1.1	405.394	T10	12.55	77.7	79.1		79.15	0.001773	1	12.57	9.62	0.28
C1	C1.1	385.024	T10	12.55	77.4	78.88		79.07	0.008665	1.96	6.4	5.05	0.56
C1	C1.1	364.842	T10	12.55	77	78.61	78.26	78.86	0.012257	2.23	5.63	4.8	0.66
C1	C1.1	345.742	T10	12.55	76.7	78	78	78.49	0.028809	3.11	4.03	4.09	1
C1	C1.1	325.855	T10	12.55	76.4	78.26	77.08	78.29	0.001047	0.86	14.62	8.86	0.21
C1	C1.1	306.081	T10	12.55	76.2	78.25		78.27	0.000734	0.74	16.87	10.57	0.19
C1	C1.1	287.082	T10	12.55	75.99	77.66	77.65	78.18	0.031869	3.21	3.9	3.72	1
C1	C1.1	266.455	T10	12.55	75.8	77.47		77.71	0.012453	2.18	5.77	5.81	0.7
C1	C1.1	249.017	T10	12.55	75.7	77.21		77.46	0.016436	2.2	5.7	7.53	0.81
C1	C1.1	229.036	T10	12.55	75.49	77.04	76.73	77.2	0.008877	1.78	7.06	8.38	0.62
C1	C1.1	207.416	T10	12.55	75.3	76.54	76.54	76.87	0.026364	2.57	4.89	7.28	1
C1	C1.1	191.288	T10	12.55	75.1	76.24	75.77	76.34	0.004664	1.42	8.83	8.44	0.44
C1	C1.1	168.283	T10	12.55	75	76.24		76.27	0.001288	0.82	15.38	14.01	0.25
C1	C1.1	147.853	T10	12.55	74.8	76.24		76.25	0.000399	0.46	27.15	25.04	0.14
C1	C1.1	128.478	T10	12.55	74.7	76.24		76.24	0.000224	0.38	33.01	26.5	0.11

HEC-RAS Plan: P1 Profile: T10

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
C1	C1.1	108.621	T10	12.55	74.6	76.24		76.24	0.00013	0.32	39.2	29.19	0.08
C1	C1.1	86.758	T10	12.55	74.5	75.85	75.85	76.2	0.02559	2.62	4.78	6.92	1.01
C1	C1.1	66.171	T10	12.55	74.3	74.65	74.8	75.16	0.133922	3.16	3.97	16.39	2.05
C1	C1.1	45.97	T10	12.55	74.1	74.63	74.49	74.69	0.008163	1.19	11.28	30.37	0.56
C1	C1.1	27.956	T10	12.55	74	74.32	74.32	74.44	0.026468	1.61	8.19	34.23	0.94

3.1.4.2.- Arroyo de La Salud

HEC-RAS Plan: P1 River: S1 Reach: S1.1 Profile: T10

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
S1.1	5801.595	T10	16.78	375.56	376.52	376.69	377.09	0.056066	3.33	5.04	9.82	1.48
S1.1	5783.23	T10	16.78	370	370.34	370.89	374.17	0.821142	8.67	1.94	6.74	5.17
S1.1	5761.33	T10	16.78	364	364.83	365.3	366.51	0.169387	5.73	2.93	5.55	2.52
S1.1	5742.007	T10	16.78	360	360.55	360.98	362.39	0.273829	6.01	2.79	7.38	3.12
S1.1	5721.519	T10	16.78	355.87	356.42	356.76	357.66	0.183743	4.94	3.39	8.92	2.56
S1.1	5701.558	T10	16.78	351.38	352.07	352.54	353.82	0.195834	5.86	2.86	5.96	2.7
S1.1	5681.609	T10	16.78	347.43	348.22	348.59	349.62	0.215844	5.24	3.21	8.54	2.73
S1.1	5660.631	T10	16.78	344.61	345.4	345.72	346.46	0.105065	4.56	3.68	6.99	2.01
S1.1	5641.317	T10	16.78	342	342.59	342.96	343.91	0.167539	5.09	3.3	7.71	2.48
S1.1	5620.285	T10	16.78	340	340.66	340.9	341.42	0.07804	3.85	4.36	8.74	1.74
S1.1	5602.181	T10	16.78	338.14	338.95	339.23	339.85	0.094476	4.22	3.97	7.96	1.91
S1.1	5581.136	T10	16.78	336.21	337.16	337.46	338.1	0.073525	4.31	3.9	6.02	1.71
S1.1	5561.403	T10	16.78	334.34	335.2	335.55	336.33	0.109798	4.7	3.57	6.68	2.05
S1.1	5542.537	T10	16.78	332	332.49	332.86	333.79	0.166298	5.05	3.32	7.77	2.46
S1.1	5523.387	T10	16.78	331.19	332.33	332.33	332.64	0.02463	2.46	6.82	11.08	1
S1.1	5502.724	T10	16.78	328.05	328.68	329.19	331.14	0.368682	6.95	2.41	6.37	3.6
S1.1	5483.018	T10	16.78	324	324.54	324.95	326.05	0.173094	5.44	3.08	6.48	2.52
S1.1	5466.305	T10	16.78	322	322.66	322.99	323.75	0.101439	4.64	3.62	6.38	1.96
S1.1	5446.685	T10	16.78	318	318.65	319.17	320.73	0.239069	6.39	2.63	5.55	2.97
S1.1	5422.809	T10	16.78	311.39	312.55	313.24	315.15	0.22449	7.14	2.35	3.39	2.74
S1.1	5404.218	T10	16.78	306.12	306.92	307.55	309.94	0.353458	7.7	2.18	4.58	3.56
S1.1	5383.11	T10	16.78	302.52	303.47	303.93	305.02	0.141361	5.52	3.04	5.26	2.31
S1.1	5365.491	T10	16.78	300.04	300.78	301.18	302.23	0.17425	5.35	3.14	6.96	2.54
S1.1	5345.26	T10	16.78	294.62	295.45	296.01	297.8	0.270738	6.8	2.47	5.16	3.14
S1.1	5323.098	T10	16.78	290	290.73	291.26	292.68	0.190972	6.18	2.71	4.94	2.66
S1.1	5304.842	T10	16.78	287.63	288.2	288.53	289.35	0.150924	4.75	3.53	8.47	2.35
S1.1	5282.392	T10	16.78	283.85	284.47	284.84	285.81	0.163572	5.13	3.27	7.33	2.45
S1.1	5261.925	T10	16.78	281.89	282.55	282.8	283.36	0.08125	3.98	4.22	8.21	1.77
S1.1	5236.845	T10	16.78	278.32	279.24	279.67	280.68	0.137903	5.32	3.15	5.7	2.28
S1.1	5220.262	T10	16.78	275.95	276.9	277.38	278.46	0.129582	5.52	3.04	4.76	2.2
S1.1	5202.369	T10	16.78	273.97	275.07	275.48	276.38	0.097906	5.07	3.31	4.57	1.9
S1.1	5181.993	T10	16.78	271.16	271.98	272.48	273.75	0.170425	5.89	2.85	5.11	2.52
S1.1	5161.127	T10	16.78	266	266.74	267.31	269.19	0.28028	6.94	2.42	5.04	3.2
S1.1	5141.346	T10	16.78	262.5	263.07	263.46	264.51	0.179325	5.32	3.16	7.21	2.57
S1.1	5121.974	T10	16.78	259.9	260.46	260.77	261.5	0.12618	4.51	3.72	8.38	2.16
S1.1	5104.571	T10	16.78	257.59	258.18	258.46	259.15	0.141567	4.36	3.85	10.08	2.25
S1.1	5080.421	T10	16.78	255	255.69	255.94	256.52	0.084333	4.02	4.17	8.25	1.81
S1.1	5065.17	T10	16.78	254	254.51	254.72	255.21	0.082045	3.71	4.52	9.85	1.75
S1.1	5048.936	T10	16.78	251.92	252.6	252.93	253.69	0.102731	4.62	3.63	6.52	1.98
S1.1	5036.605	T10	16.78	249.93	250.61	251.05	252.12	0.152173	5.44	3.09	5.8	2.38

HEC-RAS Plan: P1 River: S1 Reach: S1.1 Profile: T10

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
S1.1	5016.544	T10	16.78	247.86	248.48	248.77	249.44	0.105039	4.35	3.86	7.9	1.99
S1.1	4999.739	T10	16.78	245.86	246.59	246.91	247.64	0.109097	4.54	3.7	7.35	2.04
S1.1	4966.822	T10	16.78	239.77	240.26	240.61	241.83	0.324687	5.55	3.02	10.24	3.26
S1.1	4940.71	T10	16.78	237.1	238.39	238.49	238.81	0.049407	2.89	5.8	12.13	1.34
S1.1	4918.883	T10	16.78	235.25	235.96	236.26	237.03	0.145905	4.57	3.67	9.16	2.3
S1.1	4899.315	T10	16.78	232.33	233.15	233.51	234.35	0.12698	4.86	3.45	6.91	2.2
S1.1	4882.608	T10	16.78	229.97	230.63	231.04	232.03	0.150068	5.24	3.2	6.19	2.33
S1.1	4863.521	T10	16.78	228	228.85	229.18	229.88	0.080097	4.49	3.74	5.66	1.76
S1.1	4845.83	T10	16.78	226	226.83	227.25	228.17	0.114614	5.12	3.28	5.4	2.09
S1.1	4822.375	T10	16.78	223.85	224.62	224.94	225.61	0.095869	4.41	3.81	7.17	1.93
S1.1	4791.806	T10	16.78	220.71	221.38	221.63	222.23	0.12578	4.1	4.1	10.83	2.13
S1.1	4771.995	T10	16.78	217.97	218.49	218.81	219.58	0.139668	4.63	3.63	8.52	2.26
S1.1	4745.188	T10	16.78	214	214.59	214.92	215.73	0.14795	4.73	3.54	8.38	2.32
S1.1	4717.828	T10	16.78	211	211.44	211.66	212.17	0.10804	3.77	4.45	11.91	1.97
S1.1	4698.171	T10	16.78	209.57	210.09	210.21	210.53	0.060138	2.96	5.67	14.06	1.49
S1.1	4678.983	T10	16.78	207.12	207.72	208.03	208.77	0.14494	4.52	3.71	9.38	2.29
S1.1	4659.117	T10	16.78	205.27	205.8	205.99	206.42	0.088773	3.46	4.85	12.72	1.79
S1.1	4639.265	T10	16.78	203.6	204.14	204.32	204.75	0.079372	3.46	4.85	11.69	1.71
S1.1	4620.197	T10	16.78	201.5	201.93	202.19	202.81	0.12972	4.15	4.04	10.66	2.15
S1.1	4599.653	T10	16.78	199.94	200.61	200.75	201.12	0.050888	3.19	5.26	10.13	1.41
S1.1	4579.202	T10	16.78	197.94	198.3	198.54	199.23	0.205886	4.27	3.93	14.11	2.58
S1.1	4558.269	T10	16.78	195.89	196.44	196.59	196.97	0.060754	3.21	5.23	11.45	1.52
S1.1	4538.41	T10	16.78	193.98	194.51	194.77	195.38	0.10546	4.12	4.07	9.22	1.98
S1.1	4519.911	T10	16.78	191.94	192.47	192.75	193.38	0.110089	4.22	3.98	8.94	2.02
S1.1	4500.942	T10	16.78	190	190.47	190.72	191.29	0.107551	4.01	4.18	10.01	1.98
S1.1	4486.429	T10	16.78	188.99	190.16	190.2	190.54	0.028944	2.72	6.17	9.75	1.09
S1.1	4471.051	T10	16.78	186.15	187.1	187.69	189.39	0.216414	6.71	2.5	4.3	2.81
S1.1	4450.405	T10	16.78	183.94	184.69	185.07	185.9	0.114442	4.86	3.45	6.29	2.1
S1.1	4427.206	T10	16.78	181.94	182.41	182.63	183.16	0.110523	3.84	4.37	11.47	1.99
S1.1	4405.877	T10	16.78	179.98	180.8	181.01	181.49	0.05737	3.68	4.56	7.6	1.52
S1.1	4388.979	T10	16.78	179.91	180.84	180.58	180.96	0.007397	1.53	11	15.02	0.57
S1.1	4388		Inl Struct									
S1.1	4364.923	T10	16.78	177.5	178.43	178.43	178.8	0.023935	2.67	6.29	8.78	1.01
S1.1	4348.489	T10	16.78	177	177.28	177.47	177.96	0.151801	3.64	4.61	16.65	2.21
S1.1	4327.756	T10	16.78	176.5	176.92	176.82	177.01	0.011157	1.3	12.86	30.48	0.64
S1.1	4305.845	T10	16.78	175.96	176.68	176.49	176.79	0.008833	1.47	11.41	18.83	0.6
S1.1	4300		Inl Struct									
S1.1	4286.238	T10	16.78	173.96	174.79	174.79	175.08	0.024903	2.38	7.06	12.46	1.01
S1.1	4266.297	T10	16.78	173.6	174.36	174.17	174.47	0.008719	1.49	11.3	18.47	0.61
S1.1	4250		Inl Struct									
S1.1	4240.228	T10	16.78	172	172.96	172.96	173.34	0.023998	2.73	6.15	8.23	1.01
S1.1	4221.165	T10	16.78	171.59	172.22	172.35	172.68	0.053746	2.98	5.64	12.69	1.43
S1.1	4191.107	T10	16.78	169.89	170.22	170.47	171.23	0.251261	4.43	3.78	14.95	2.81
S1.1	4180		Inl Struct									

HEC-RAS Plan: P1 River: S1 Reach: S1.1 Profile: T10

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
S1.1	4175.088	T10	16.78	168.5	169.32	169.32	169.65	0.02405	2.55	6.58	10.02	1
S1.1	4158.131	T10	16.78	168	168.48	168.63	168.99	0.068904	3.15	5.33	13.24	1.58
S1.1	4135.194	T10	16.78	167.5	168.11	167.98	168.25	0.01236	1.69	9.94	17.13	0.71
S1.1	4116.152	T10	16.78	167	167.74	167.69	167.95	0.019989	2.04	8.22	15.47	0.89
S1.1	4099.337	T10	16.78	166.5	167.25	167.25	167.57	0.024367	2.5	6.71	10.62	1.01
S1.1	4078.851	T10	16.78	166	166.69	166.53	166.84	0.010822	1.7	9.85	15.08	0.67
S1.1	4053.83	T10	16.78	165.5	166.15	166.15	166.43	0.025054	2.36	7.1	12.65	1.01
S1.1	4033.063	T10	16.78	164	164.28	164.52	165.21	0.217928	4.28	3.92	14.7	2.64
S1.1	4014		Inl Struct									
S1.1	4013.949	T10	16.78	161.97	162.5	162.5	162.73	0.026434	2.16	7.79	16.64	1.01
S1.1	3993.442	T10	16.78	161	161.56	161.67	161.99	0.048688	2.92	5.74	12.26	1.36
S1.1	3972.151	T10	16.78	160	160.48	160.59	160.92	0.052488	2.94	5.7	12.62	1.4
S1.1	3953.608	T10	16.78	159	159.51	159.63	159.96	0.051042	2.96	5.67	12.28	1.39
S1.1	3938.189	T10	16.78	158	158.47	158.63	158.98	0.078382	3.19	5.25	14.14	1.67
S1.1	3916.994	T10	16.78	157	157.63	157.67	157.94	0.030669	2.44	6.88	13.72	1.1
S1.1	3897.419	T10	16.78	156	156.88	156.95	157.25	0.040004	2.69	6.23	13.08	1.24
S1.1	3876.703	T10	16.78	155	155.53	155.71	156.11	0.07677	3.35	5.01	12.36	1.68
S1.1	3856.104	T10	16.78	154	154.87	154.9	155.26	0.027015	2.76	6.08	8.85	1.06
S1.1	3836.94	T10	16.78	153	153.34	153.58	154.18	0.151074	4.07	4.12	12.24	2.24
S1.1	3811.414	T10	16.78	152	152.87	152.87	153.17	0.024772	2.43	6.91	11.71	1.01
S1.1	3790.745	T10	16.78	151	151.34	151.56	152.1	0.14128	3.87	4.34	13.65	2.19
S1.1	3769.832	T10	16.78	150	150.58	150.59	150.8	0.028497	2.1	8.01	19.1	1.03
S1.1	3740.528	T10	16.78	149	149.86	149.66	150.03	0.010274	1.82	9.21	12.1	0.67
S1.1	3711.851	T10	16.78	147.98	149.16	149.16	149.57	0.02463	2.83	5.93	7.36	1.01
S1.1	3688.422	T10	16.78	147	148.64	147.65	148.68	0.001219	0.87	19.24	14.36	0.24
S1.1	3669.913	T10	16.78	146	148.66	146.45	148.67	0.000053	0.26	63.79	29.23	0.06
S1.1	3665		Culvert									
S1.1	3630.01	T10	16.78	141	141.48	142.21	145.42	0.339088	8.8	1.91	4	0.06
S1.1	3609.083	T10	16.78	139	139.73	140.21	141.4	0.092342	5.73	2.93	4	2.14
S1.1	3569.803	T10	16.78	137	137.7	138.21	139.52	0.105094	5.98	2.8	4	2.28
S1.1	3531.94	T10	16.78	135	135.71	136.21	137.49	0.101556	5.91	2.84	4	2.24
S1.1	3516.517	T10	16.78	134	134.83	135.22	136.13	0.063209	5.04	3.33	4	1.76
S1.1	3461.697	T10	16.78	133	133.81	134.22	135.17	0.068049	5.17	3.25	4	1.83
S1.1	3437.323	T10	16.78	132	133.03	133.22	133.88	0.034314	4.09	4.11	4	1.29
S1.1	3415.168	T10	16.78	131	131.92	132.22	132.97	0.046601	4.54	3.69	4	1.51
S1.1	3384.712	T10	16.78	130.5	131.84	131.71	132.34	0.016045	3.13	5.37	4	0.86
S1.1	3360.843	T10	16.78	130	131.71		132.02	0.008245	2.46	6.83	4	0.6
S1.1	3341.308	T10	16.78	129.5	130.97	130.97	131.71	0.026324	3.8	4.41	3	1
S1.1	3321.525	T10	16.78	129	129.91	130.21	130.99	0.04801	4.59	3.66	4	1.53
S1.1	3302.005	T10	16.78	128.5	129.64	129.71	130.33	0.025679	3.69	4.54	4	1.11
S1.1	3260.023	T10	16.78	128	129.03	129.21	129.87	0.033616	4.06	4.14	4	1.27
S1.1	3213.161	T10	16.78	125	125.6	126.21	128.11	0.170565	7.03	2.39	4	2.9
S1.1	3175.133	T10	16.78	124.5	125.49	125.71	126.41	0.038532	4.25	3.94	4	1.37
S1.1	3157.794	T10	16.78	124	125.2	125.21	125.82	0.022182	3.51	4.78	4	1.02

HEC-RAS Plan: P1 River: S1 Reach: S1.1 Profile: T10

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
S1.1	3137.708	T10	16.78	122	122.65	123.21	124.78	0.132441	6.46	2.6	4	2.56
S1.1	3117.823	T10	16.78	121.5	122.9	122.71	123.36	0.014125	2.99	5.62	4	0.8
S1.1	3094.516	T10	16.78	121	123.07	121.92	123.16	0.001707	1.35	12.42	6	0.3
S1.1	3040		Culvert									
S1.1	3037.848	T10	16.78	120.5	121.32	121.71	122.65	0.065174	5.09	3.29	4	0.3
S1.1	3018.277	T10	16.78	120	121.14	121.21	121.83	0.025194	3.67	4.57	4	1.1
S1.1	2993.185	T10	16.78	119.5	120.61	120.71	121.34	0.027153	3.77	4.46	4	1.14
S1.1	2972.897	T10	16.78	119	120.2	120.21	120.82	0.021761	3.48	4.82	4	1.01
S1.1	2951.655	T10	16.78	118.5	119.65	119.71	120.33	0.024577	3.64	4.61	4	1.08
S1.1	2930.164	T10	16.78	118	119.21	119.21	119.82	0.021703	3.48	4.82	4	1.01
S1.1	2909.298	T10	16.78	117.5	118.64	118.71	119.33	0.025248	3.67	4.57	4	1.1
S1.1	2889.624	T10	16.78	117	118.14	118.21	118.83	0.025477	3.68	4.56	4	1.1
S1.1	2869.561	T10	16.78	116.5	117.66	117.71	118.33	0.024252	3.62	4.64	4	1.07
S1.1	2847.714	T10	16.78	116	117.2	117.21	117.82	0.02191	3.49	4.8	4	1.02
S1.1	2827.381	T10	16.78	115.5	116.63	116.71	117.33	0.025947	3.71	4.53	4	1.11
S1.1	2808.495	T10	16.78	115	116.12	116.21	116.83	0.026584	3.74	4.49	4	1.13
S1.1	2790.117	T10	16.78	114.5	115.61	115.71	116.34	0.027324	3.77	4.45	4	1.14
S1.1	2768.426	T10	16.78	114	115.17	115.21	115.83	0.023689	3.59	4.67	4	1.06
S1.1	2748.472	T10	16.78	113.5	115.33	114.54	115.5	0.003827	1.83	9.15	5	0.43
S1.1	2745		Culvert									
S1.1	2728.053	T10	16.78	113	114.02	114.04	114.57	0.020442	3.29	5.09	5	0.43
S1.1	2708.317	T10	16.78	112.5	113.42	113.54	114.1	0.027265	3.63	4.62	5	1.21
S1.1	2689.479	T10	16.78	112	112.94	113.04	113.59	0.025665	3.56	4.72	5	1.17
S1.1	2667.637	T10	16.78	111.5	112.79	112.62	113.22	0.013208	2.88	5.83	4.5	0.81
S1.1	2648.323	T10	16.78	111	112.78	112.12	113	0.005446	2.1	8	4.5	0.5
S1.1	2645		Culvert									
S1.1	2628.511	T10	16.78	110.5	111.42	111.62	112.26	0.035887	4.07	4.13	4.5	0.5
S1.1	2608.676	T10	16.78	110	111.09	111.12	111.69	0.021602	3.42	4.91	4.5	1.04
S1.1	2589.296	T10	16.78	109	109.77	110.12	110.97	0.060658	4.85	3.46	4.5	1.77
S1.1	2568.959	T10	16.78	108.8	109.92	109.92	110.48	0.02006	3.33	5.04	4.5	1.01
S1.1	2549.572	T10	16.78	108	109.81	109.12	110.02	0.005206	2.06	8.13	4.5	0.49
S1.1	2528.213	T10	16.78	107.5	109.83		109.92	0.001871	1.37	12.28	9.21	0.38
S1.1	2508.121	T10	16.78	107	109.11	109.11	109.78	0.021983	3.61	4.65	3.51	1
S1.1	2489.056	T10	16.78	106.5	106.87	107.3	108.73	0.186628	6.04	2.78	7.76	3.22
S1.1	2469.118	T10	16.78	105.99	106.75	106.5	106.85	0.003954	1.38	12.19	17.49	0.53
S1.1	2448.395	T10	16.78	105.5	106.42	106.42	106.68	0.015723	2.29	7.32	13.99	1.01
S1.1	2427.708	T10	16.78	105	105.67	105.81	106.22	0.030565	3.28	5.12	9.35	1.41
S1.1	2408.781	T10	16.78	104.5	105.39	105.42	105.75	0.016263	2.64	6.36	9.93	1.05
S1.1	2388.191	T10	16.78	104	104.58	104.77	105.22	0.040491	3.55	4.73	9.4	1.6
S1.1	2369.324	T10	16.78	103.5	104.78	104.23	104.89	0.002461	1.44	11.69	10.19	0.43
S1.1	2349.042	T10	16.78	103	104.23	104.23	104.74	0.015991	3.17	5.3	5.19	1
S1.1	2329.434	T10	16.78	102.5	103.93	103.2	104.01	0.001574	1.23	13.63	10.09	0.34
S1.1	2308.943	T10	16.78	102	103.92		103.98	0.001059	1.07	15.7	11.7	0.29
S1.1	2288.27	T10	16.78	101.5	103.9		103.96	0.000817	1.04	16.09	8.24	0.24

HEC-RAS Plan: P1 River: S1 Reach: S1.1 Profile: T10

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
S1.1	2267.888	T10	16.78	101	103.93		103.94	0.00011	0.48	34.78	13.68	0.1
S1.1	2248.424	T10	16.78	100.16	103.92		103.93	0.000195	0.6	27.81	12.41	0.13
S1.1	2227.923	T10	16.78	99.5	103.91		103.93	0.000238	0.63	29.34	18.71	0.13
S1.1	2187.527	T10	16.78	99	102.85	102.85	103.82	0.062234	4.36	3.84	2	1
S1.1	2168.742	T10	16.78	98.5	100.39	99.39	100.46	0.001224	1.19	14.12	9.02	0.3
S1.1	2168		Culvert									
S1.1	2127.45	T10	16.78	98	99.51		99.54	0.000705	0.88	19.17	13.93	0.24
S1.1	2108.343	T10	16.78	97.5	99.37		99.51	0.00296	1.65	10.17	7.02	0.44
S1.1	2088.708	T10	16.78	97	98.82	98.82	99.34	0.028667	3.2	5.25	5.13	1.01
S1.1	2068.559	T10	16.78	96.5	97.42	97.71	98.43	0.070256	4.44	3.78	4.31	1.52
S1.1	2048.189	T10	16.78	96	97.66	97.66	97.95	0.025747	2.37	7.09	12.46	1
S1.1	2025.927	T10	16.78	95.5	96.36	96.56	97.11	0.051871	3.84	4.37	5.68	1.4
S1.1	2008.242	T10	16.78	95	95.64	95.78	96.18	0.046525	3.24	5.18	8.85	1.35
S1.1	1988.672	T10	16.78	94.5	95.47	95.08	95.57	0.005045	1.41	11.88	12.54	0.46
S1.1	1948.121	T10	16.78	94	94.94	94.94	95.33	0.025135	2.78	6.03	7.74	1.01
S1.1	1929.094	T10	16.78	93.5	94.12	94.26	94.66	0.050188	3.28	5.12	9.15	1.4
S1.1	1907.899	T10	16.78	93	93.73	93.73	94.06	0.024548	2.54	6.6	10.1	1
S1.1	1868.152	T10	16.78	92.5	93.15	93.2	93.5	0.033277	2.62	6.41	12.19	1.15
S1.1	1847.749	T10	16.78	92	92.61	92.61	92.88	0.025694	2.29	7.31	13.91	1.01
S1.1	1827.024	T10	16.78	91.5	92.07	92.08	92.34	0.02691	2.29	7.33	14.5	1.03
S1.1	1808.779	T10	16.78	91	91.74	91.57	91.89	0.010407	1.69	9.9	15.01	0.67
S1.1	1787.636	T10	16.78	90.5	91.24	91.24	91.55	0.024465	2.48	6.78	10.97	1.01
S1.1	1767.092	T10	16.78	90	90.86	90.75	91.04	0.014641	1.88	8.92	14.81	0.77
S1.1	1750.449	T10	16.78	89.5	90.89		90.93	0.002086	0.94	17.83	19.46	0.31
S1.1	1728.833	T10	16.78	89	90.74		90.86	0.003963	1.53	10.95	6.56	0.38
S1.1	1689.601	T10	16.78	88.5	90.74		90.8	0.001484	1.1	17.1	12.95	0.25
S1.1	1669.926	T10	16.78	88.3	90.62		90.74	0.004824	1.54	10.88	8.55	0.44
S1.1	1648.354	T10	16.78	88	89.93	89.93	90.48	0.030508	3.29	5.1	4.77	1.02
S1.1	1624.313	T10	16.78	87.5	88.03	88.34	89.1	0.137278	4.58	3.66	8.55	2.23
S1.1	1608.899	T10	16.78	87	88.08	88.08	88.35	0.025039	2.31	7.27	13.44	1
S1.1	1587.53	T10	16.78	86.61	88.08	87.54	88.15	0.002966	1.21	13.96	14.48	0.38
S1.1	1568.867	T10	16.78	86.45	87.64	87.64	88	0.024008	2.67	6.29	8.78	1.01
S1.1	1548.173	T10	16.78	86.3	87.69	87.07	87.73	0.00205	0.92	18.32	21.38	0.31
S1.1	1527.59	T10	16.78	86.15	87.6		87.67	0.004412	1.18	14.25	19.64	0.44
S1.1	1507.467	T10	16.78	86	87.18	87.18	87.47	0.02449	2.41	6.97	11.83	1
S1.1	1488.729	T10	16.78	85.5	86.51	86.04	86.58	0.003272	1.16	14.47	15.8	0.39
S1.1	1466.158	T10	16.78	85	86.44		86.51	0.002728	1.21	13.86	11.37	0.35
S1.1	1447.36	T10	16.78	84.5	85.92	85.92	86.36	0.02568	2.94	5.71	6.5	1
S1.1	1426.867	T10	16.78	84	85.33	85.34	85.82	0.026887	3.09	5.43	5.87	1.03
S1.1	1409.197	T10	16.78	83.5	83.9	84.17	84.85	0.142162	4.31	3.89	10.22	2.23
S1.1	1387.738	T10	16.78	83	83.93	83.93	84.25	0.024468	2.47	6.78	11.07	1.01
S1.1	1367.25	T10	16.78	82.5	83.66	83.45	83.85	0.010593	1.9	8.82	11.21	0.69
S1.1	1348.274	T10	16.78	82	83.63		83.71	0.003495	1.25	13.44	14.04	0.41
S1.1	1327.58	T10	16.78	82	83.61	82.78	83.65	0.001765	0.93	18.07	17.61	0.29

HEC-RAS Plan: P1 River: S1 Reach: S1.1 Profile: T10

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
S1.1	1327		Culvert									
S1.1	1286.832	T10	16.78	80	80.49	80.9	82.03	0.190938	5.51	3.05	6.52	0.29
S1.1	1266.242	T10	16.78	79.6	81.24	80.73	81.32	0.003855	1.25	13.47	15.18	0.42
S1.1	1247.645	T10	16.78	79.2	81.15		81.24	0.004187	1.34	12.48	13.24	0.44
S1.1	1228.917	T10	16.78	78.8	80.59	80.59	81.04	0.028088	2.99	5.62	6.2	1
S1.1	1209.619	T10	16.78	78.5	79.43	79.68	80.26	0.057232	4.02	4.17	5.62	1.49
S1.1	1187.813	T10	16.78	78	79.35	78.97	79.56	0.008717	2.04	8.23	6.95	0.6
S1.1	1167.643	T10	16.78	77.6	78.82	78.82	79.26	0.024511	2.95	5.69	6.53	1.01
S1.1	1146.751	T10	16.78	77.2	78.66	77.96	78.75	0.002876	1.28	13.12	10.24	0.36
S1.1	1127.474	T10	16.78	76.8	78.03	78.03	78.57	0.029223	3.25	5.17	4.86	1.01
S1.1	1107.99	T10	16.78	76.4	77.28	77.39	77.9	0.040999	3.47	4.83	5.64	1.2
S1.1	1068.374	T10	16.78	76	76.65	76.72	77.07	0.035114	2.87	5.86	9.76	1.18
S1.1	1047.719	T10	16.78	75.6	76.49	76.24	76.64	0.008475	1.7	9.9	12.52	0.61
S1.1	1028.876	T10	16.78	75.2	76.36		76.49	0.006506	1.59	10.55	11.53	0.53
S1.1	1006.535	T10	16.78	74.8	75.78	75.78	76.21	0.025636	2.88	5.82	6.95	1.01
S1.1	989.295	T10	16.78	74.2	74.8	75.01	75.49	0.069408	3.69	4.54	8.4	1.6
S1.1	969.07	T10	16.78	73.8	74.63	74.63	74.96	0.024221	2.55	6.57	10.04	1.01
S1.1	948.366	T10	16.78	73.4	73.99	74.05	74.37	0.034101	2.71	6.18	10.99	1.16
S1.1	929.601	T10	16.78	73	73.8	73.48	73.88	0.004879	1.26	13.36	17.82	0.46
S1.1	907.693	T10	16.78	72.6	73.77		73.81	0.001532	0.88	19.1	17.96	0.27
S1.1	886.95	T10	16.78	72.2	73.34	73.34	73.7	0.02397	2.65	6.33	8.99	1.01
S1.1	867.298	T10	16.78	71.98	72.89	72.79	73.11	0.015805	2.07	8.12	12.51	0.82
S1.1	846.604	T10	16.78	71.6	72.55		72.78	0.015884	2.14	7.84	10.93	0.81
S1.1	826.198	T10	16.78	71.2	72.01	72.01	72.37	0.024356	2.65	6.33	8.91	1
S1.1	806.232	T10	16.78	70.8	71.39	71.46	71.77	0.03773	2.73	6.15	11.67	1.2
S1.1	786.863	T10	16.78	70.4	70.88	70.95	71.21	0.039877	2.55	6.58	14.93	1.23
S1.1	767.309	T10	16.78	70	70.57	70.52	70.77	0.0185	1.94	8.65	16.61	0.86
S1.1	747.298	T10	16.78	69.5	70.08	70.08	70.32	0.025987	2.18	7.68	16	1.01
S1.1	726.893	T10	16.78	69	69.51	69.53	69.76	0.029565	2.21	7.58	17.08	1.06
S1.1	706.489	T10	16.78	68.5	68.96	68.97	69.17	0.028663	2.04	8.21	20.41	1.03
S1.1	685.787	T10	16.78	68	68.39	68.42	68.63	0.035938	2.17	7.73	20.69	1.13
S1.1	667.592	T10	16.78	67.5	67.97	67.95	68.16	0.022992	1.95	8.6	19.25	0.93
S1.1	646.258	T10	16.78	67	67.43	67.43	67.63	0.027455	1.99	8.45	21.18	1
S1.1	626.312	T10	16.78	66.5	66.94	66.89	67.09	0.019106	1.73	9.69	22.48	0.84
S1.1	607.072	T10	16.78	66	66.44	66.44	66.65	0.02723	2.05	8.18	19.29	1.01
S1.1	586.398	T10	16.78	65	65.35	65.46	65.74	0.080063	2.77	6.06	20.58	1.63
S1.1	565.938	T10	16.78	64.5	64.95	64.95	65.15	0.027408	1.98	8.48	21.34	1
S1.1	546.78	T10	16.78	64	64.43	64.41	64.61	0.022805	1.85	9.05	21.75	0.92
S1.1	525.745	T10	16.78	63.5	64		64.16	0.019565	1.78	9.41	21.56	0.86
S1.1	506.15	T10	16.78	63	63.5	63.5	63.7	0.027474	1.99	8.42	21.09	1.01
S1.1	487.032	T10	16.78	62.5	62.94	62.95	63.16	0.02926	2.07	8.12	20.06	1.04
S1.1	467.46	T10	16.78	62	62.54	62.39	62.63	0.009312	1.35	12.43	24.63	0.61
S1.1	446.873	T10	16.78	61.5	62.13	62.12	62.32	0.026728	1.93	8.71	22.44	0.99
S1.1	425.259	T10	16.78	61	61.53	61.53	61.73	0.027289	2.01	8.35	20.52	1.01

HEC-RAS Plan: P1 River: S1 Reach: S1.1 Profile: T10

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
S1.1	406.005	T10	16.78	60	60.41	60.55	60.9	0.071654	3.12	5.38	13.98	1.6
S1.1	386.985	T10	16.78	59.5	60	60	60.24	0.026542	2.18	7.71	16.14	1.01
S1.1	367.457	T10	16.78	59	59.48	59.43	59.64	0.018575	1.77	9.5	21.16	0.84
S1.1	348.055	T10	16.78	58.5	59.07	59.03	59.25	0.021287	1.9	8.81	19.49	0.9
S1.1	325.374	T10	16.78	58	58.48	58.48	58.71	0.026513	2.13	7.89	17.2	1
S1.1	306.287	T10	16.78	57.5	57.96	57.93	58.14	0.021913	1.89	8.88	19.88	0.9
S1.1	286.013	T10	16.78	57	57.43	57.43	57.64	0.027517	2.04	8.23	19.61	1.01
S1.1	266.381	T10	16.78	56.5	57.22	56.9	57.28	0.003897	1.07	15.66	22.53	0.41
S1.1	246.588	T10	16.78	56	56.8	56.8	57.1	0.024572	2.43	6.91	11.66	1.01
S1.1	225.712	T10	16.78	55.5	55.74	55.86	56.14	0.111416	2.8	5.98	25.55	1.85
S1.1	205.498	T10	16.78	55	55.57	55.54	55.81	0.02194	2.15	7.82	14.4	0.93
S1.1	185.956	T10	16.78	54.5	55.22		55.44	0.015735	2.07	8.11	12.23	0.81
S1.1	166.357	T10	16.78	54	54.7	54.7	55.04	0.025393	2.58	6.51	9.69	1
S1.1	147.131	T10	16.78	53.5	53.98	54.07	54.38	0.047676	2.82	5.95	12.99	1.33
S1.1	126.489	T10	16.78	53	53.56	53.52	53.76	0.020893	1.99	8.42	16.7	0.9
S1.1	106.652	T10	16.78	52.5	53.56		53.61	0.002366	1.02	16.47	16.75	0.33
S1.1	86.227	T10	16.78	52	53.34		53.52	0.007233	1.88	8.95	7.71	0.56
S1.1	66.283	T10	16.78	51.8	53.43	52.27	53.45	0.000479	0.61	27.71	17.41	0.15
S1.1	66		Culvert									
S1.1	46.283	T10	16.78	51.4	53.33		53.35	0.000272	0.5	33.53	17.59	0.12

3.1.4.3.- Arroyo Pachurraco

HEC-RAS Plan: P1 Profile: T10

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
P3	P3.1	1112.025	T10	4.31	106	106.39	106.24	106.42	0.006466	0.83	5.16	16.11	0.47
P3	P3.1	1094.637	T10	4.31	106	106.34		106.36	0.00201	0.47	9.16	28.1	0.26
P3	P3.1	1080.444	T10	4.31	106	106.31		106.32	0.00277	0.52	8.31	28.08	0.3
P3	P3.1	1063.54	T10	4.31	106	106.14	106.14	106.2	0.039061	1.14	3.77	28.34	1
P3	P3.1	1039.945	T10	4.31	104.67	105.01	105.13	105.42	0.161686	2.85	1.51	8.37	2.14
P3	P3.1	1026.774	T10	4.31	104	104.35	104.32	104.46	0.022822	1.44	2.99	10.51	0.86
P3	P3.1	1009.687	T10	4.31	103.8	104.12	104.04	104.18	0.011267	1.05	4.11	13.78	0.61
P3	P3.1	989.142	T10	4.31	103.4	103.7	103.7	103.8	0.033732	1.45	2.97	13.98	1
P3	P3.1	976.191	T10	4.31	103	103.21	103.22	103.32	0.040803	1.49	2.88	14.97	1.09
P3	P3.1	958.394	T10	4.31	102.5	102.75	102.73	102.84	0.022895	1.28	3.37	14.33	0.84
P3	P3.1	940.343	T10	4.31	102	102.23	102.23	102.34	0.033772	1.46	2.95	13.66	1.01
P3	P3.1	918.426	T10	4.31	100.57	100.9	100.99	101.21	0.083686	2.47	1.75	7.27	1.61
P3	P3.1	896.037	T10	4.31	100	100.27	100.27	100.39	0.031982	1.57	2.75	11	1
P3	P3.1	873.035	T10	4.31	98.5	98.74	98.86	99.12	0.111962	2.71	1.59	7.17	1.83
P3	P3.1	853.237	T10	4.31	98	98.33	98.33	98.48	0.031251	1.67	2.58	9.14	1.01
P3	P3.1	830.89	T10	4.31	96	96.16	96.32	96.81	0.314587	3.57	1.21	7.76	2.89
P3	P3.1	811.355	T10	4.31	95.5	95.76	95.76	95.89	0.032895	1.58	2.72	10.78	1.01
P3	P3.1	796.581	T10	4.31	95	95.29	95.22	95.35	0.0145	1.13	3.82	13.58	0.68
P3	P3.1	780.321	T10	4.31	94.5	94.88	94.88	95.01	0.032054	1.6	2.7	10.56	1.01
P3	P3.1	765.162	T10	4.31	94	94.18	94.21	94.33	0.065796	1.73	2.49	14.77	1.35
P3	P3.1	748.87	T10	4.31	93.5	93.86	93.72	93.9	0.006968	0.9	4.77	13.7	0.49
P3	P3.1	727.262	T10	4.31	93.09	93.48	93.48	93.61	0.032503	1.59	2.71	10.76	1.01
P3	P3.1	708.233	T10	4.31	92	92.2	92.3	92.52	0.118735	2.52	1.71	8.97	1.84
P3	P3.1	690.309	T10	4.31	91	91.3	91.22	91.35	0.011668	1.02	4.23	15.21	0.62
P3	P3.1	670.987	T10	4.31	90.39	90.86	90.86	90.99	0.032966	1.56	2.76	11.46	1.01
P3	P3.1	649.874	T10	4.31	90	90.16	90.2	90.3	0.070284	1.65	2.61	17.5	1.37
P3	P3.1	629.877	T10	4.31	89.5	89.65	89.65	89.72	0.037631	1.2	3.6	24.61	1
P3	P3.1	609.3	T10	4.31	88.48	88.91	88.84	88.97	0.013435	1.05	4.11	15.8	0.66
P3	P3.1	588.875	T10	4.31	88.3	88.65		88.7	0.013318	1	4.32	17.8	0.65
P3	P3.1	569.465	T10	4.31	88.1	88.36	88.31	88.42	0.01577	1.03	4.18	18.56	0.69
P3	P3.1	549.534	T10	4.31	87.8	87.93	87.92	87.98	0.031723	1.01	4.29	33.45	0.9
P3	P3.1	509.702	T10	4.31	87	87.22	87.22	87.31	0.036137	1.32	3.27	18.82	1.01
P3	P3.1	487.885	T10	4.31	86	86.19	86.22	86.33	0.05637	1.64	2.63	15.16	1.26
P3	P3.1	449.854	T10	4.31	85.04	85.23	85.24	85.31	0.056929	1.31	3.29	26.81	1.19
P3	P3.1	430.382	T10	4.31	84.5	84.73	84.68	84.77	0.014347	0.91	4.72	23.44	0.65
P3	P3.1	410.206	T10	4.31	84	84.24	84.24	84.35	0.033018	1.45	3.01	14.45	1
P3	P3.1	348.652	T10	4.31	83.13	83.41	83.43	83.52	0.048034	1.45	2.98	18.39	1.15
P3	P3.1	327.977	T10	4.31	82.48	82.77	82.77	82.85	0.038205	1.25	3.46	22.45	1.01
P3	P3.1	289.83	T10	4.31	81.5	81.6	81.63	81.72	0.112294	1.55	2.79	29.39	1.6
P3	P3.1	269.146	T10	4.31	81	81.16	81.12	81.2	0.015925	0.83	5.16	31.71	0.66
P3	P3.1	249.21	T10	4.31	80.8	81.09		81.1	0.002184	0.45	9.61	33.71	0.27

HEC-RAS Plan: P1 Profile: T10

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
P3	P3.1	228.431	T10	4.31	80.58	80.88	80.88	80.98	0.034833	1.4	3.08	15.71	1.01
P3	P3.1	208.319	T10	4.31	80	80.28	80.2	80.32	0.011336	0.94	4.6	18.37	0.6
P3	P3.1	188.661	T10	4.31	79.51	79.86	79.86	79.95	0.036227	1.34	3.21	17.91	1.01
P3	P3.1	171.198	T10	4.31	79	79.23	79.3	79.44	0.101786	2.01	2.14	14.13	1.65
P3	P3.1	149.345	T10	4.31	78.5	78.72	78.72	78.81	0.035596	1.34	3.21	17.68	1.01
P3	P3.1	129.12	T10	4.31	77.5	77.71	77.67	77.76	0.017388	1.01	4.26	20.82	0.71
P3	P3.1	108.505	T10	4.31	76.92	77.16	77.16	77.26	0.034852	1.4	3.09	15.78	1.01
P3	P3.1	89.861	T10	4.31	76	76.26	76.3	76.44	0.055859	1.92	2.24	10.09	1.3
P3	P3.1	70.075	T10	4.31	75	75.42	75.35	75.53	0.016869	1.46	2.96	7.96	0.76
P3	P3.1	54.287	T10	4.31	74.7	75.06	75.04	75.2	0.026521	1.66	2.6	8.24	0.94
P3	P3.1	36.237	T10	4.31	74.4	74.67	74.63	74.74	0.022205	1.21	3.56	16.03	0.82
P3	P3.1	18.962	T10	4.31	74	74.17	74.17	74.25	0.037267	1.25	3.45	21.89	1.01
P2	P2.1	870.556	T10	1.08	164.07	164.26	164.28	164.36	0.060011	1.35	0.8	6.45	1.22
P2	P2.1	849.202	T10	1.08	161.86	162.05	162.08	162.17	0.211743	1.54	0.7	11.91	2.03
P2	P2.1	829.695	T10	1.08	158.09	158.29	158.38	158.57	0.16078	2.35	0.46	3.35	2.03
P2	P2.1	810.241	T10	1.08	156	156.09	156.12	156.19	0.092728	1.36	0.8	8.85	1.44
P2	P2.1	789.007	T10	1.08	152.4	152.58	152.66	152.9	0.302209	2.53	0.43	4.52	2.62
P2	P2.1	769.528	T10	1.08	150	150.16	150.2	150.3	0.072466	1.65	0.66	4.48	1.37
P2	P2.1	749.234	T10	1.08	148	148.08	148.13	148.23	0.154865	1.66	0.65	7.81	1.84
P2	P2.1	729.07	T10	1.08	146	146.06	146.07	146.1	0.074417	0.92	1.17	19.82	1.21
P2	P2.1	710.477	T10	1.08	144	144.08	144.12	144.21	0.146889	1.56	0.69	8.75	1.78
P2	P2.1	689.532	T10	1.08	142	142.11	142.13	142.19	0.067295	1.27	0.85	8.15	1.26
P2	P2.1	669.676	T10	1.08	141	141.08	141.1	141.17	0.097581	1.28	0.84	10.54	1.45
P2	P2.1	650.157	T10	1.08	140	140.11	140.11	140.16	0.042927	1.02	1.06	10.23	1.01
P2	P2.1	630.461	T10	1.08	138	138.09	138.16	138.35	0.302065	2.28	0.47	5.85	2.56
P2	P2.1	610.722	T10	1.08	137.5	137.62	137.58	137.64	0.015548	0.64	1.68	15.09	0.61
P2	P2.1	589.939	T10	1.08	136.93	137.07	137.07	137.11	0.049622	0.86	1.26	17.41	1.02
P2	P2.1	571.495	T10	1.08	136	136.06	136.06	136.1	0.06055	0.84	1.29	21.31	1.09
P2	P2.1	553.965	T10	1.08	134	134.06	134.11	134.21	0.237262	1.69	0.64	10.34	2.17
P2	P2.1	532.925	T10	1.08	133.14	133.43	133.43	133.51	0.039022	1.22	0.89	6.01	1.01
P2	P2.1	510.902	T10	1.08	131.36	131.55	131.61	131.77	0.229639	2.08	0.52	6	2.26
P2	P2.1	489.711	T10	1.08	130	130.11	130.08	130.14	0.017088	0.67	1.61	14.54	0.64
P2	P2.1	470.32	T10	1.08	129.5	129.58	129.58	129.61	0.047764	0.87	1.24	16.42	1.01
P2	P2.1	450.022	T10	1.08	128	128.15	128.08	128.16	0.006038	0.47	2.31	16.28	0.4
P2	P2.1	430.465	T10	1.08	127.67	127.86	127.86	127.91	0.044135	0.98	1.11	11.57	1.01
P2	P2.1	411.383	T10	1.08	126	126.07	126.11	126.23	0.248778	1.79	0.6	9.25	2.24
P2	P2.1	390.18	T10	1.08	124.89	125.1	125.1	125.16	0.043304	1.03	1.05	9.9	1.01
P2	P2.1	373.003	T10	1.08	124	124.08	124.09	124.14	0.0845	1.15	0.94	12.62	1.34
P2	P2.1	356.616	T10	1.08	123	123.1	123.1	123.15	0.045012	0.99	1.09	11.27	1.02
P2	P2.1	337.201	T10	1.08	122	122.09	122.1	122.15	0.060379	1.06	1.02	11.85	1.16
P2	P2.1	316.575	T10	1.08	120	120.12	120.18	120.32	0.140198	1.94	0.56	4.93	1.84
P2	P2.1	294.393	T10	1.08	119	119.12	119.09	119.15	0.018641	0.73	1.47	12.25	0.68
P2	P2.1	273.933	T10	1.08	118.31	118.54	118.54	118.61	0.038335	1.18	0.92	6.51	1
P2	P2.1	261.265	T10	1.08	118	118.13	118.12	118.18	0.030421	0.96	1.12	9.08	0.87
P2	P2.1	243.652	T10	1.08	117.5	117.6	117.59	117.64	0.029979	0.84	1.28	12.48	0.84

HEC-RAS Plan: P1 Profile: T10

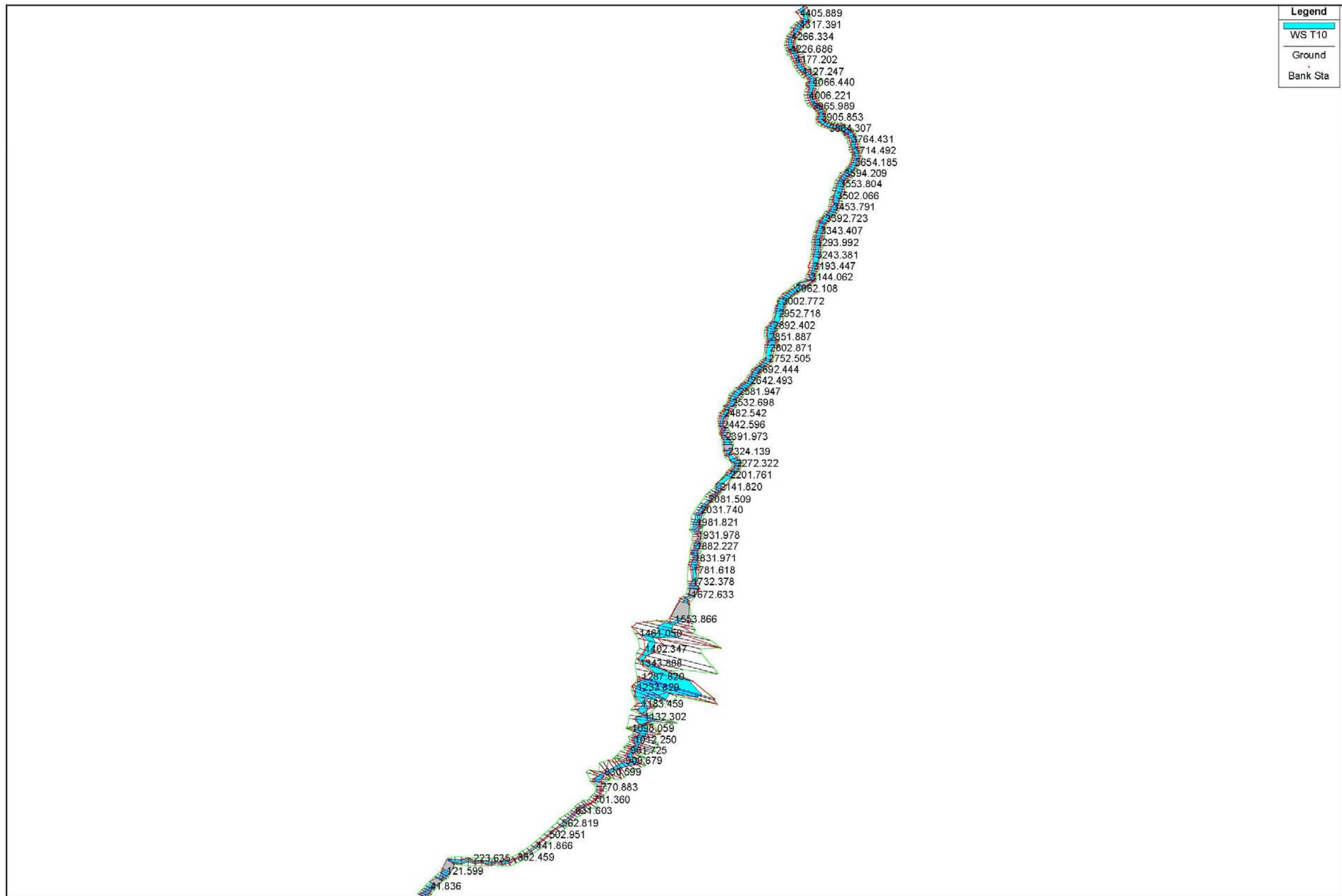
River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
P2	P2.1	229.518	T10	1.08	117	117.08	117.08	117.12	0.045795	0.9	1.21	14.68	1
P2	P2.1	213.488	T10	1.08	116.5	116.59	116.57	116.61	0.018934	0.61	1.77	19.75	0.65
P2	P2.1	197.926	T10	1.08	116	116.13	116.13	116.19	0.040713	1.07	1.01	8.64	1
P2	P2.1	183.036	T10	1.08	114.83	114.96	115	115.09	0.167887	1.58	0.69	9.51	1.87
P2	P2.1	167.122	T10	1.08	114	114.08	114.07	114.11	0.02571	0.68	1.59	19.01	0.75
P2	P2.1	145.695	T10	1.08	113.5	113.59	113.57	113.62	0.020671	0.63	1.7	19.19	0.68
P2	P2.1	129.147	T10	1.08	113	113.09	113.09	113.13	0.045947	0.89	1.21	14.97	1
P2	P2.1	108.301	T10	1.08	112	112.08	112.08	112.12	0.050998	0.88	1.22	16.47	1.04
P2	P2.1	90.599	T10	1.08	111	111.09	111.07	111.1	0.021483	0.63	1.73	20.45	0.69
P2	P2.1	74.965	T10	1.08	110.5	110.6	110.6	110.64	0.042586	0.93	1.17	12.81	0.98
P2	P2.1	61.389	T10	1.08	110	110.11	110.1	110.15	0.031258	0.88	1.23	11.48	0.86
P2	P2.1	47.63	T10	1.08	109.5	109.59	109.59	109.64	0.044573	0.94	1.15	12.73	1
P2	P2.1	38.563	T10	1.08	109	109.08	109.09	109.14	0.067374	1.08	1	12.43	1.21
P2	P2.1	23.901	T10	1.08	108	108.25	108.26	108.35	0.043368	1.43	0.76	4.35	1.09
P1	P1.1	681.218	T10	1.08	156.96	157.15	157.19	157.28	0.080007	1.55	0.7	5.63	1.41
P1	P1.1	661.511	T10	1.08	154	154.09	154.17	154.39	0.34159	2.46	0.44	5.27	2.72
P1	P1.1	648.225	T10	1.08	152	152.18	152.23	152.35	0.084271	1.84	0.59	3.78	1.49
P1	P1.1	639.553	T10	1.08	151	151.06	151.1	151.2	0.233961	1.65	0.65	10.82	2.14
P1	P1.1	619.643	T10	1.08	148.66	148.96	148.99	149.11	0.059317	1.72	0.63	3.42	1.28
P1	P1.1	600.466	T10	1.08	146.87	147.06	147.12	147.27	0.180057	1.99	0.54	5.56	2.04
P1	P1.1	580.195	T10	1.08	144.75	144.92	144.95	145.03	0.072874	1.49	0.72	5.78	1.35
P1	P1.1	574.026	T10	1.08	144	144.07	144.12	144.25	0.263317	1.89	0.57	8.41	2.32
P1	P1.1	558.996	T10	1.08	142.87	143.13	143.13	143.2	0.039771	1.15	0.94	7.13	1.01
P1	P1.1	539.055	T10	1.08	140.93	141.12	141.22	141.5	0.278162	2.73	0.4	3.49	2.59
P1	P1.1	524.705	T10	1.08	138.97	139.16	139.21	139.31	0.09125	1.67	0.65	5.16	1.51
P1	P1.1	514.714	T10	1.08	138	138.1	138.14	138.24	0.126986	1.64	0.66	6.94	1.7
P1	P1.1	497.301	T10	1.08	136	136.13	136.17	136.27	0.101324	1.66	0.65	5.67	1.57
P1	P1.1	477.506	T10	1.08	134	134.09	134.12	134.19	0.1071	1.43	0.76	8.68	1.54
P1	P1.1	462.528	T10	1.08	132.44	132.68	132.71	132.79	0.082329	1.53	0.71	6	1.42
P1	P1.1	455.169	T10	1.08	132	132.11	132.13	132.21	0.075656	1.37	0.79	7.46	1.34
P1	P1.1	435.892	T10	1.08	130.93	131.08	131.17	131.57	0.649283	3.12	0.35	4.72	3.69
P1	P1.1	416.365	T10	1.08	130	130.14	130.09	130.16	0.010707	0.6	1.79	13.3	0.52
P1	P1.1	401.974	T10	1.08	129.65	129.83	129.83	129.87	0.045811	0.94	1.14	12.93	1.01
P1	P1.1	385.668	T10	1.08	128.5	128.59	128.62	128.7	0.127043	1.48	0.73	9.02	1.66
P1	P1.1	375.867	T10	1.08	128	128.13	128.13	128.19	0.040311	1.11	0.97	7.72	1
P1	P1.1	359.802	T10	1.08	126	126.08	126.18	126.54	0.572041	3	0.36	4.75	3.47
P1	P1.1	342.094	T10	1.08	124.59	124.9	124.88	124.96	0.029714	1.12	0.96	6.06	0.9
P1	P1.1	319.748	T10	1.08	124	124.12	124.12	124.18	0.041317	1.08	1	8.45	1.01
P1	P1.1	301.981	T10	1.08	122.28	122.5	122.58	122.77	0.202384	2.3	0.47	4.22	2.2
P1	P1.1	276.675	T10	1.08	121.5	121.59	121.59	121.64	0.044521	0.93	1.16	13.02	1
P1	P1.1	258.003	T10	1.08	120.5	120.61	120.58	120.63	0.016152	0.63	1.71	16.1	0.62
P1	P1.1	238.621	T10	1.08	119.7	120.04	120.04	120.09	0.059808	0.93	1.17	16.49	1.11
P1	P1.1	219.535	T10	1.08	118	118.09	118.13	118.24	0.177891	1.76	0.61	7.47	1.96
P1	P1.1	200.275	T10	1.08	117	117.1	117.1	117.15	0.043421	0.97	1.12	11.69	1
P1	P1.1	179.626	T10	1.08	116	116.08	116.08	116.13	0.056686	0.96	1.12	14.44	1.1

HEC-RAS Plan: P1 Profile: T10

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
P1	P1.1	158.202	T10	1.08	114.02	114.24	114.3	114.43	0.115084	1.96	0.55	4.13	1.71
P1	P1.1	139.164	T10	1.08	113	113.02	113.08	113.72	5.749969	3.71	0.29	15.85	8.73
P1	P1.1	125.124	T10	1.08	112.25	112.58	112.51	112.61	0.011409	0.75	1.45	8.12	0.56
P1	P1.1	101.29	T10	1.08	112	112.08	112.08	112.12	0.046446	0.89	1.22	15.21	1
P1	P1.1	80.273	T10	1.08	111	111.06	111.06	111.1	0.051159	0.8	1.35	21.32	1.01
P1	P1.1	59.603	T10	1.08	110	110.07	110.1	110.16	0.145366	1.37	0.79	12.03	1.71
P1	P1.1	38.586	T10	1.08	109.02	109.29	109.29	109.37	0.038963	1.2	0.9	6.21	1.01

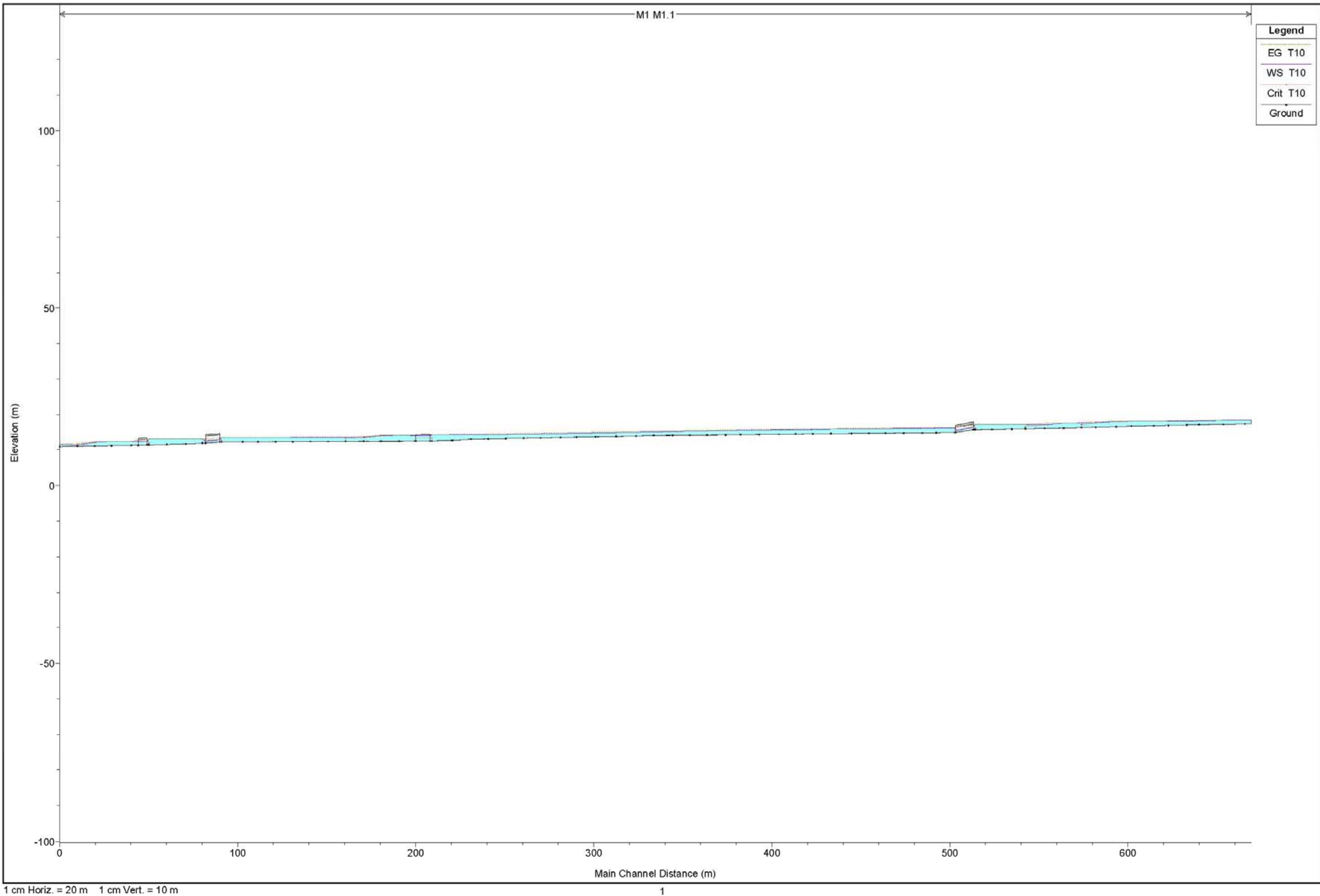
- 3.2.- Cuenca 2. Arroyo Merino. T=10 años
 - 3.2.1.- Vista 3D arroyo
 - 3.2.2.- Perfil longitudinal
 - 3.2.3.- Perfiles transversales
 - 3.2.4.- Tablas de resultados

3.2.1.- Vista 3D arroyo

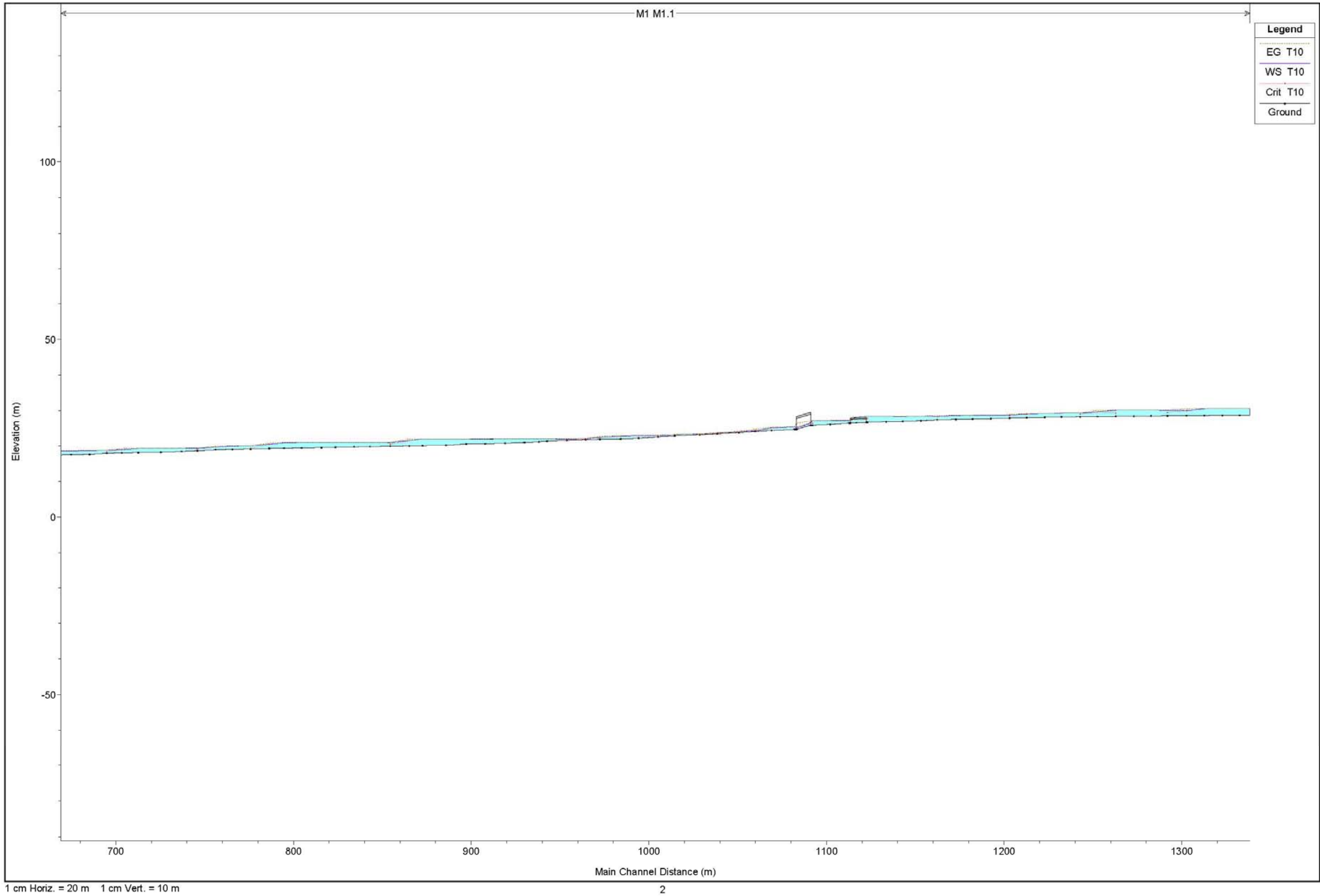


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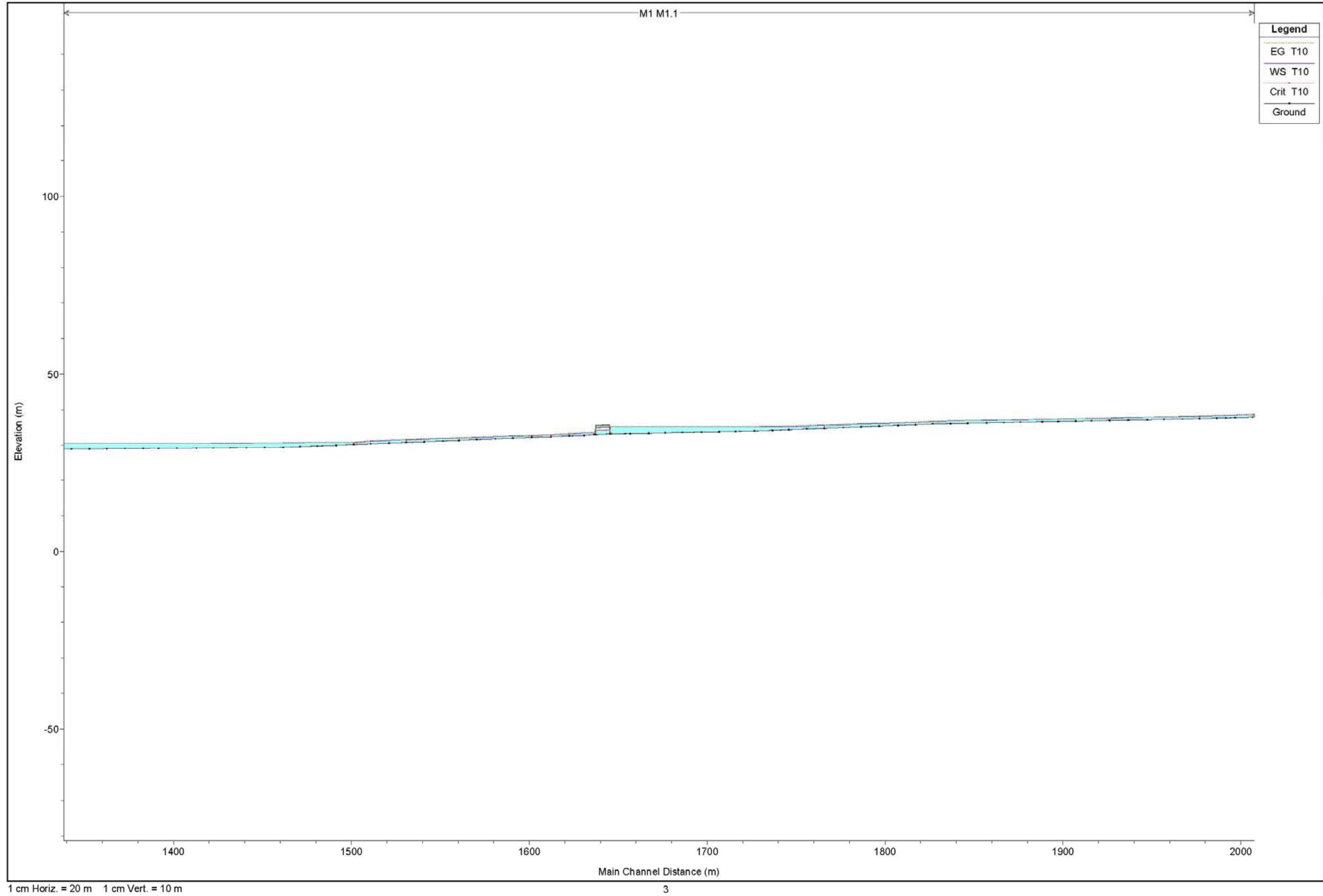
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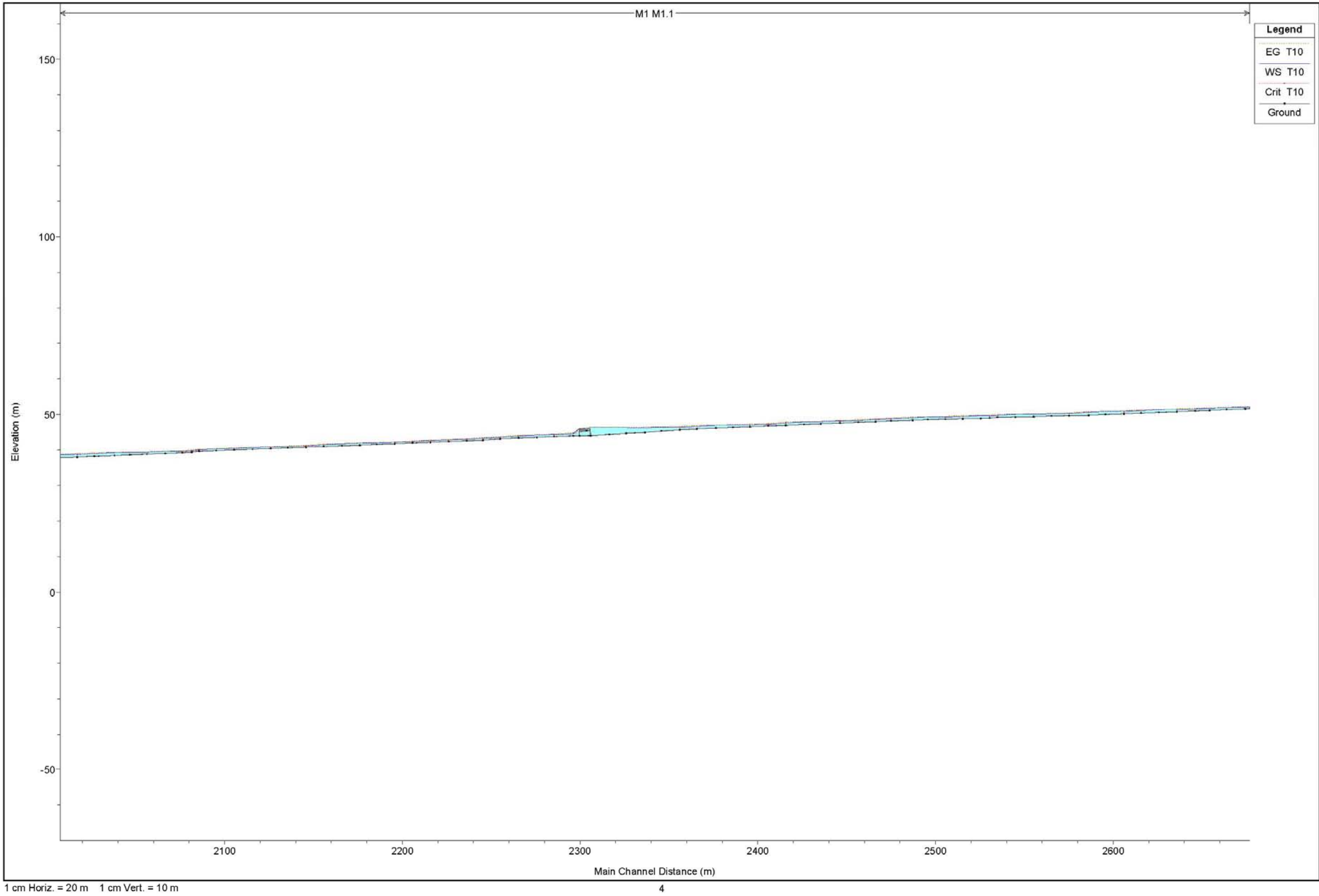


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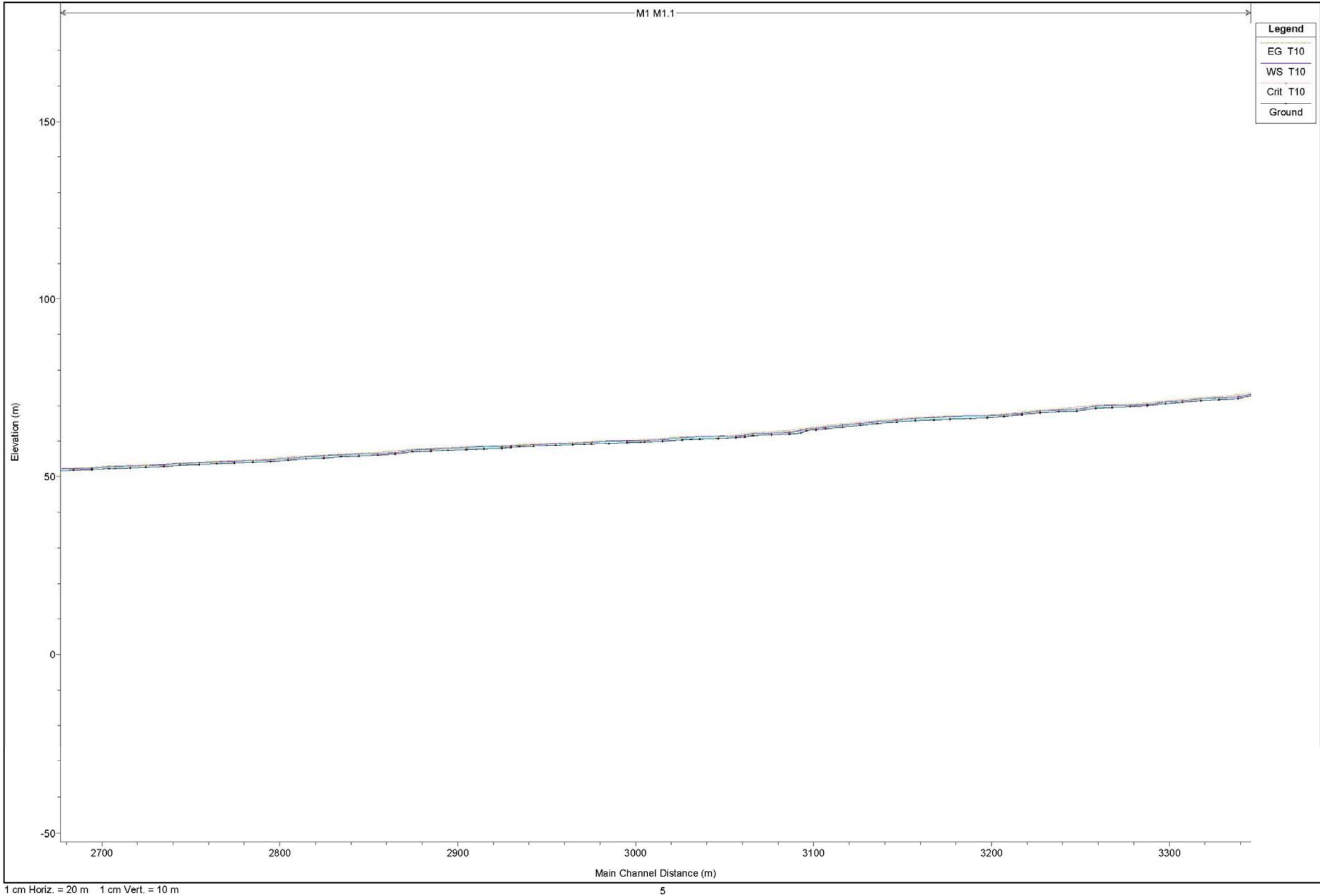


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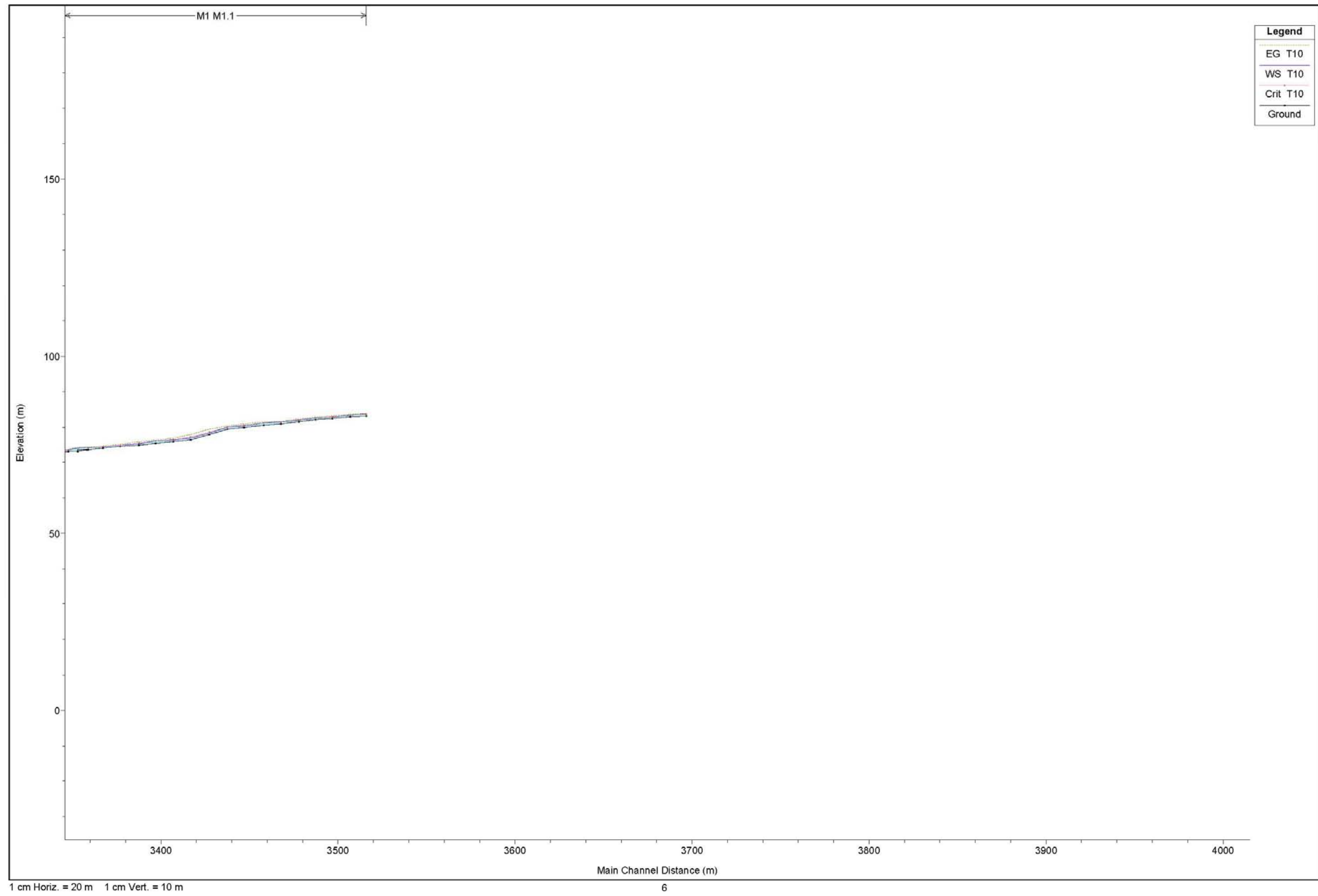




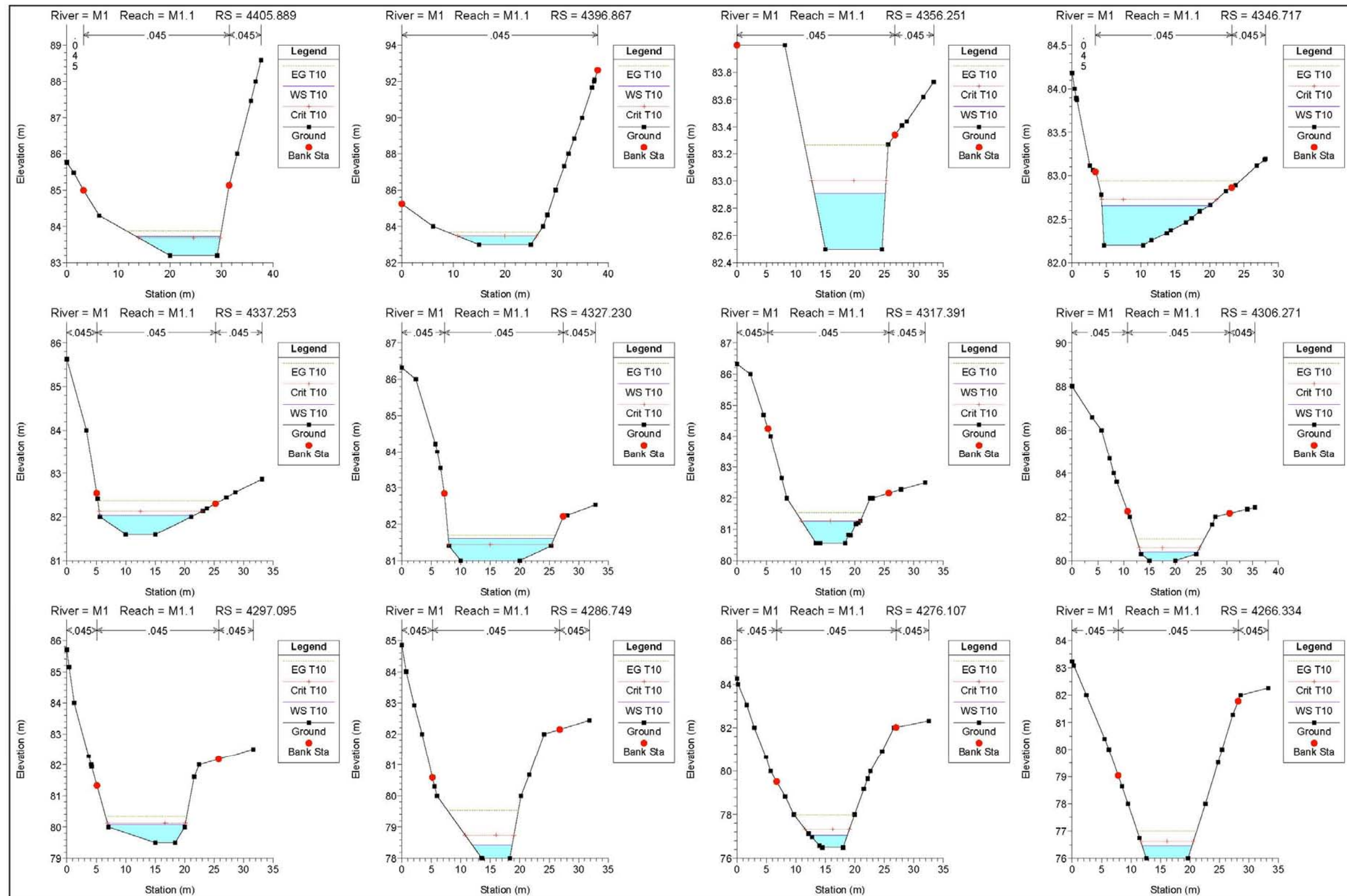
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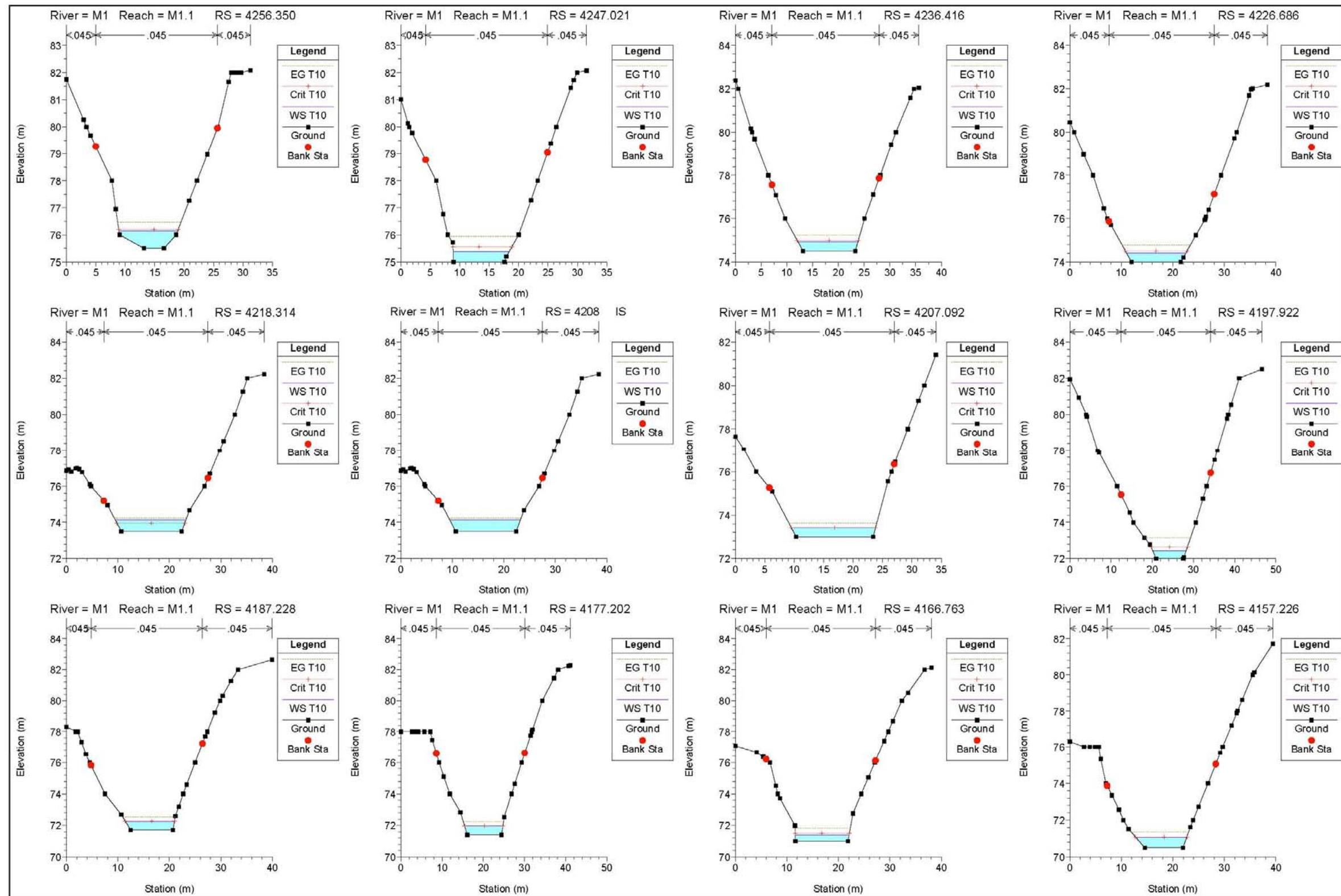
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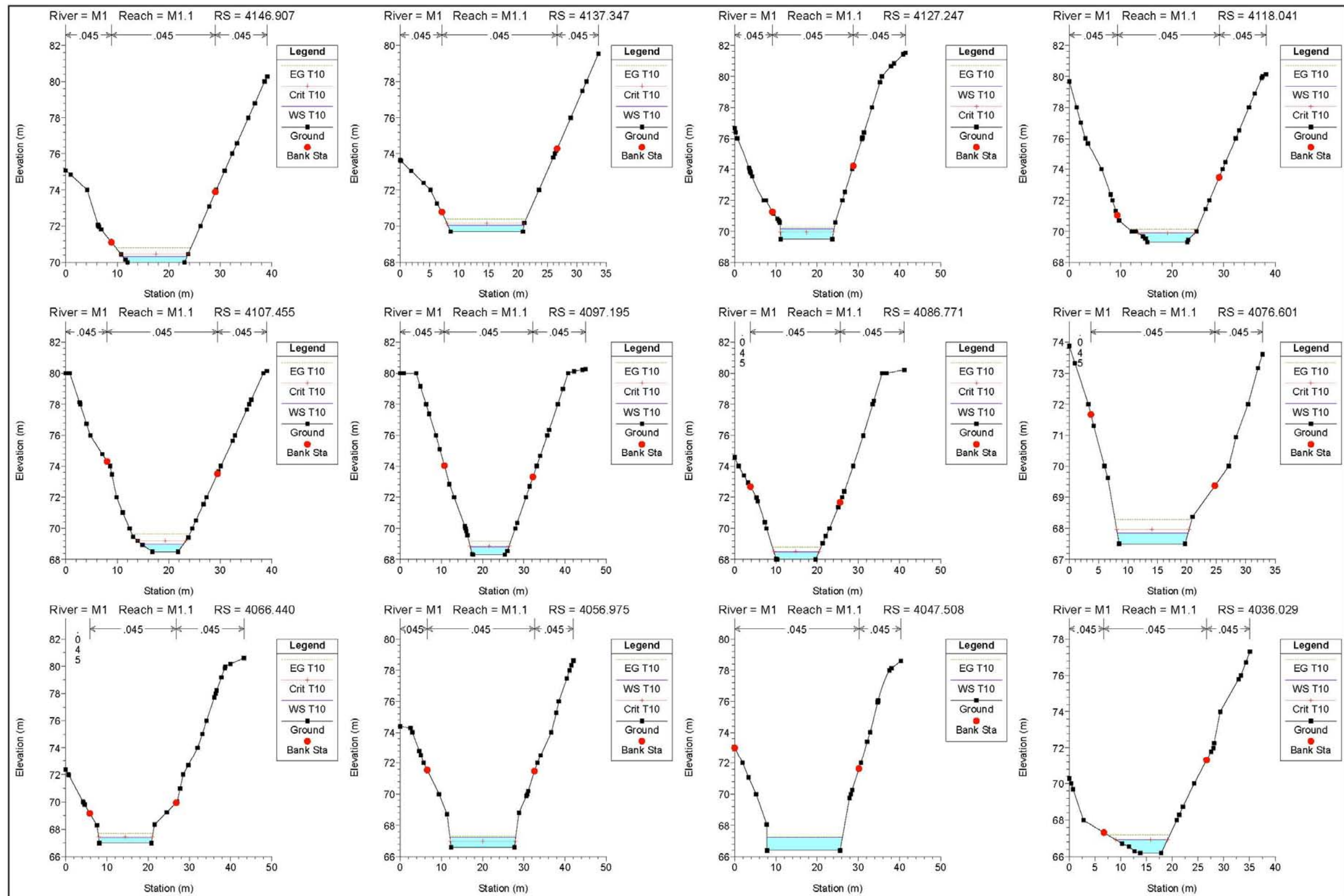
3.2.3.- Perfiles transversales



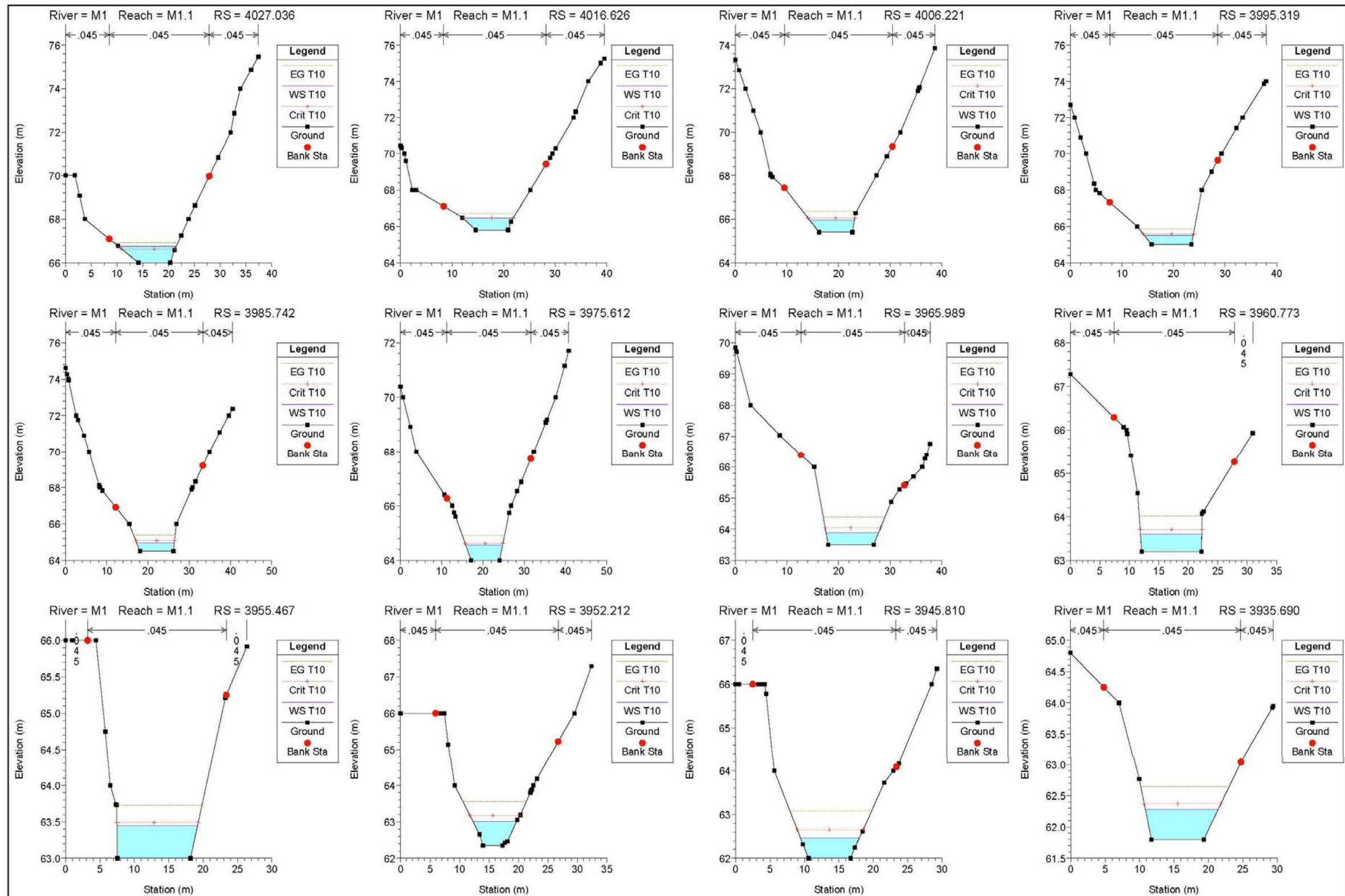
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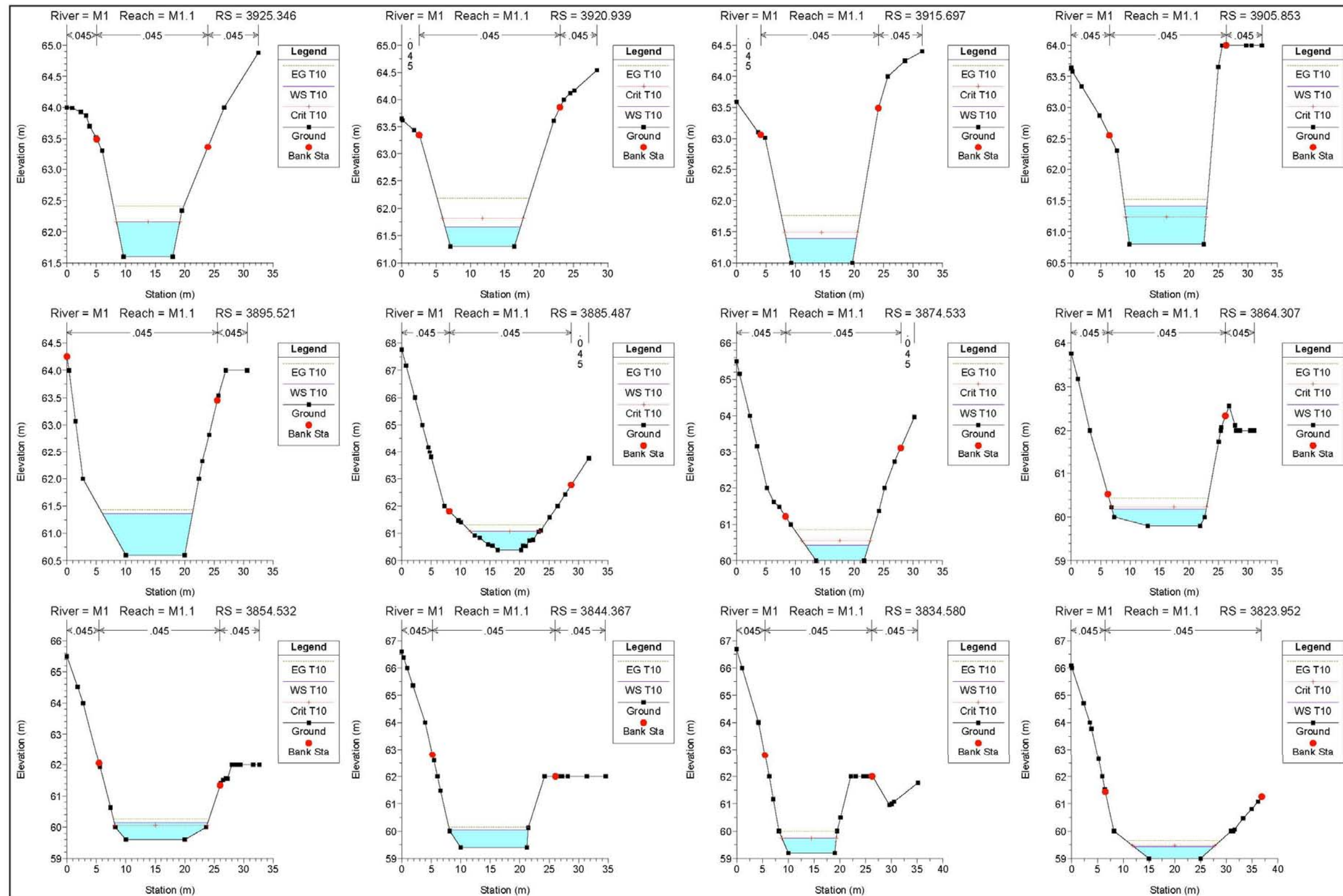
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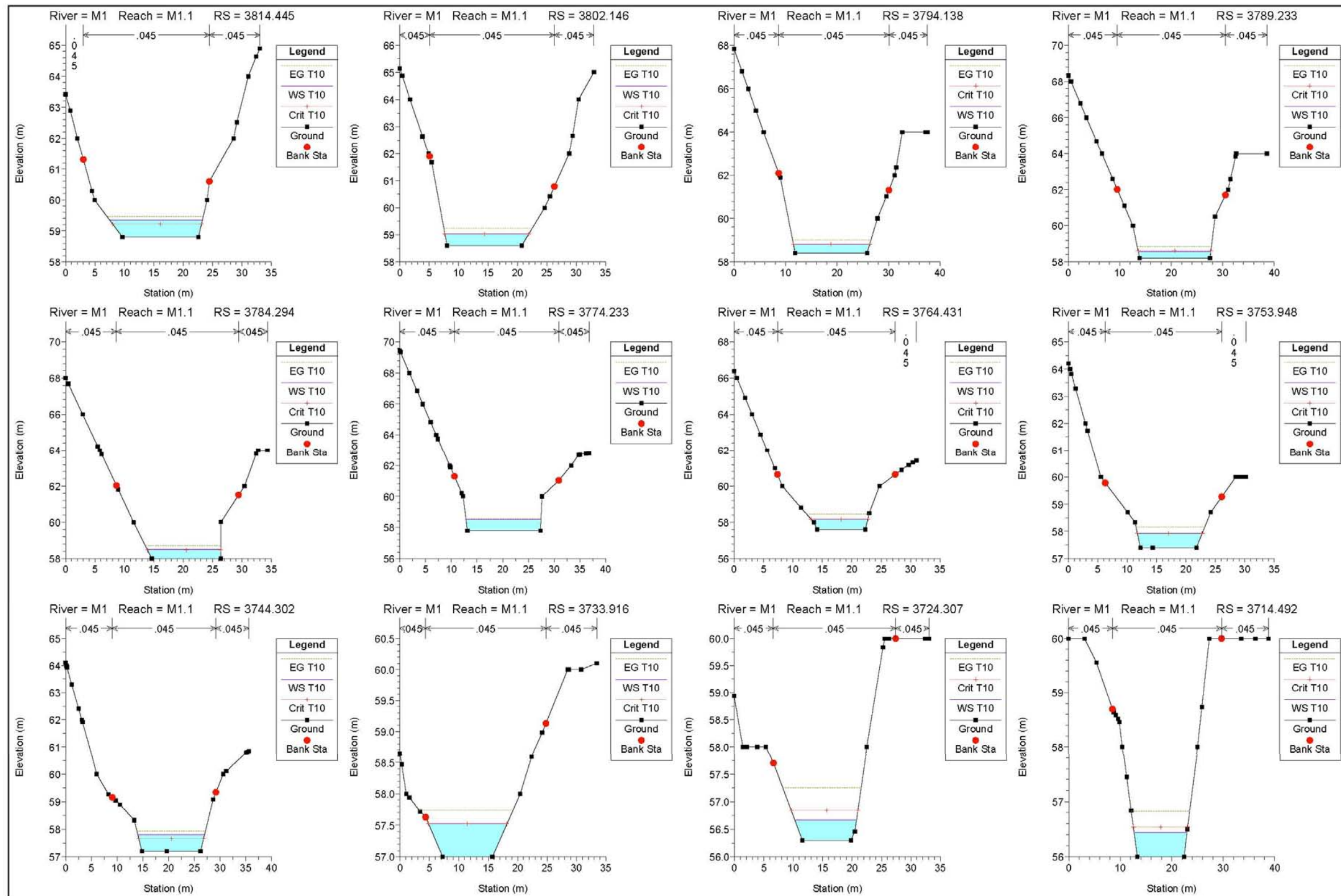
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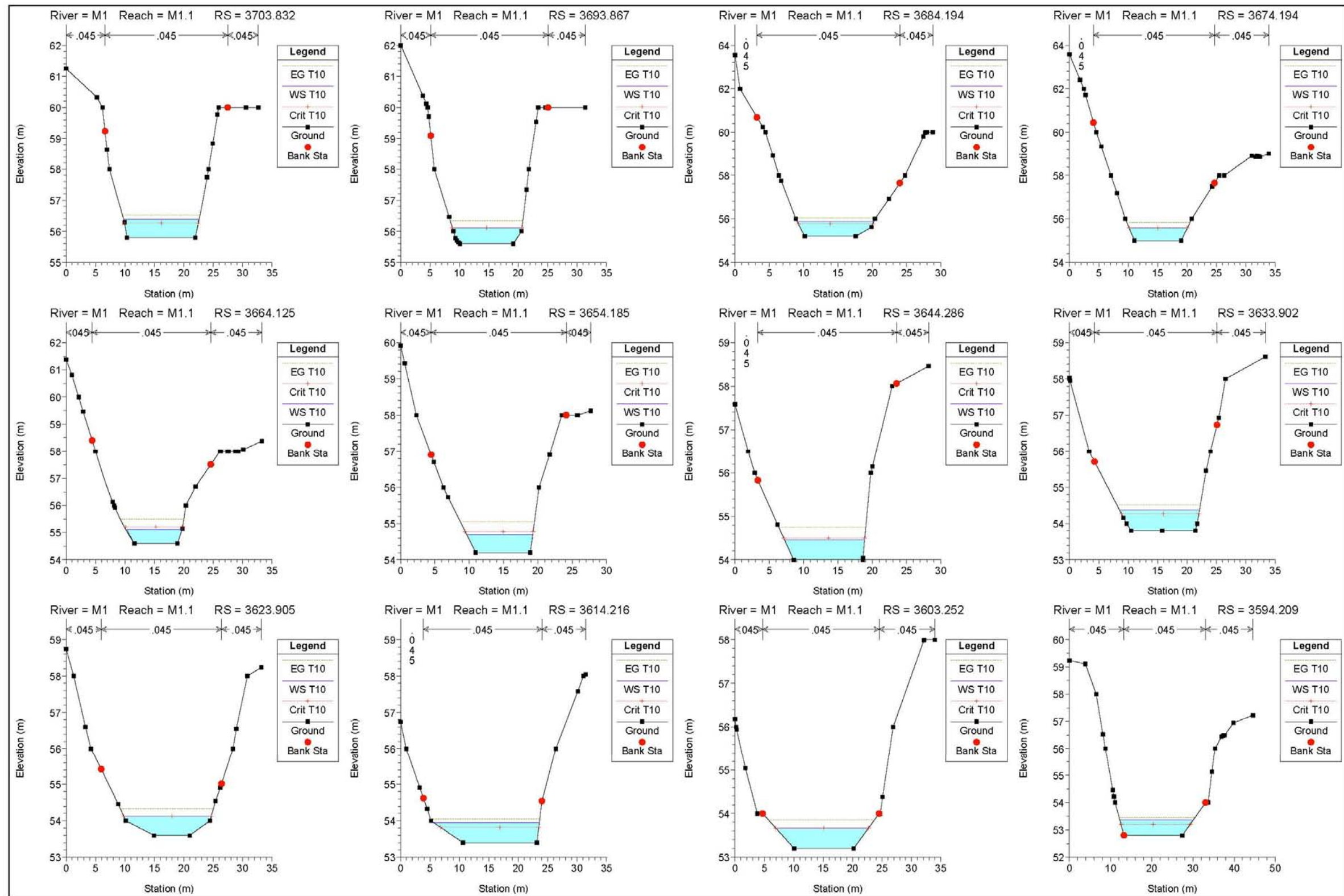
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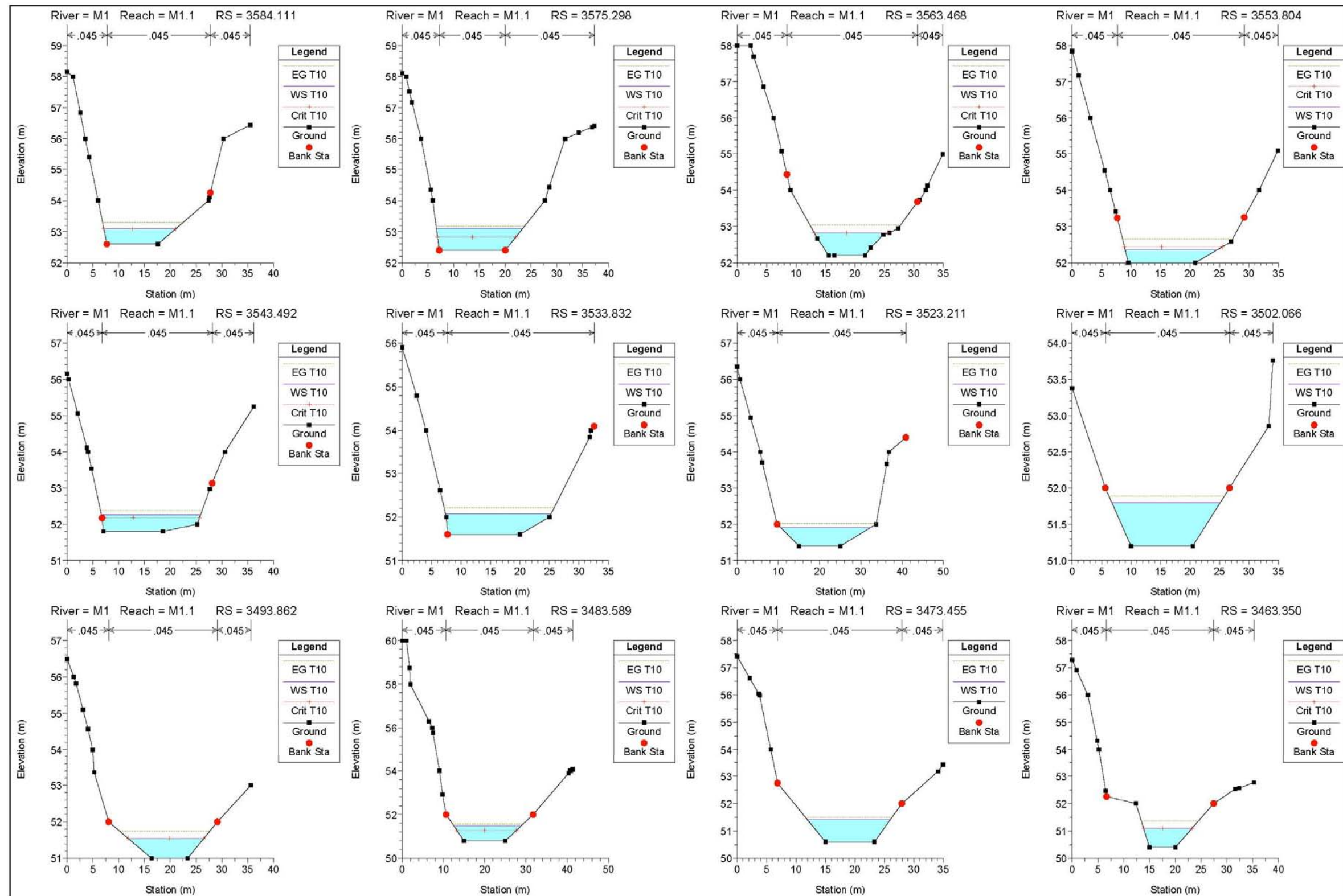
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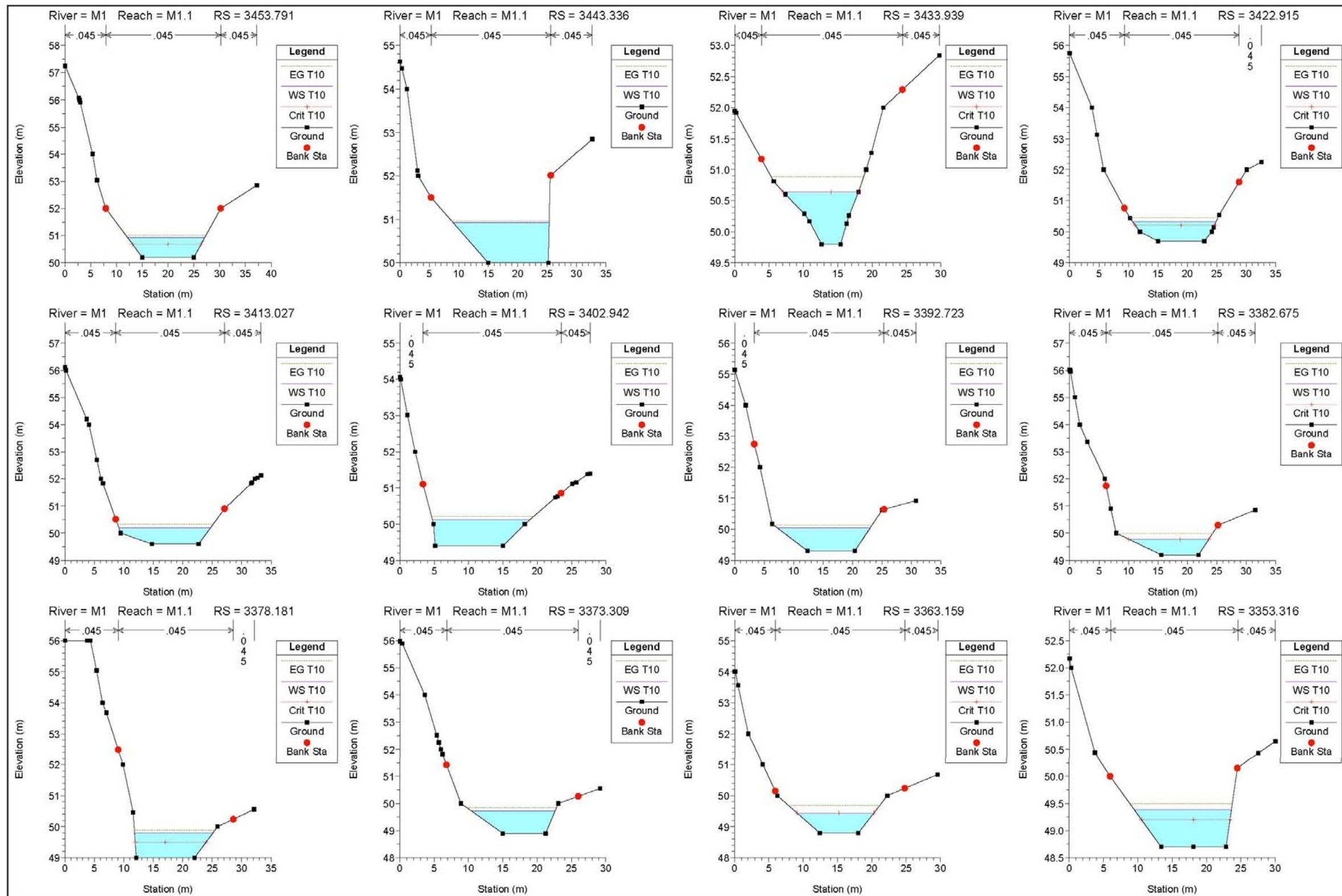
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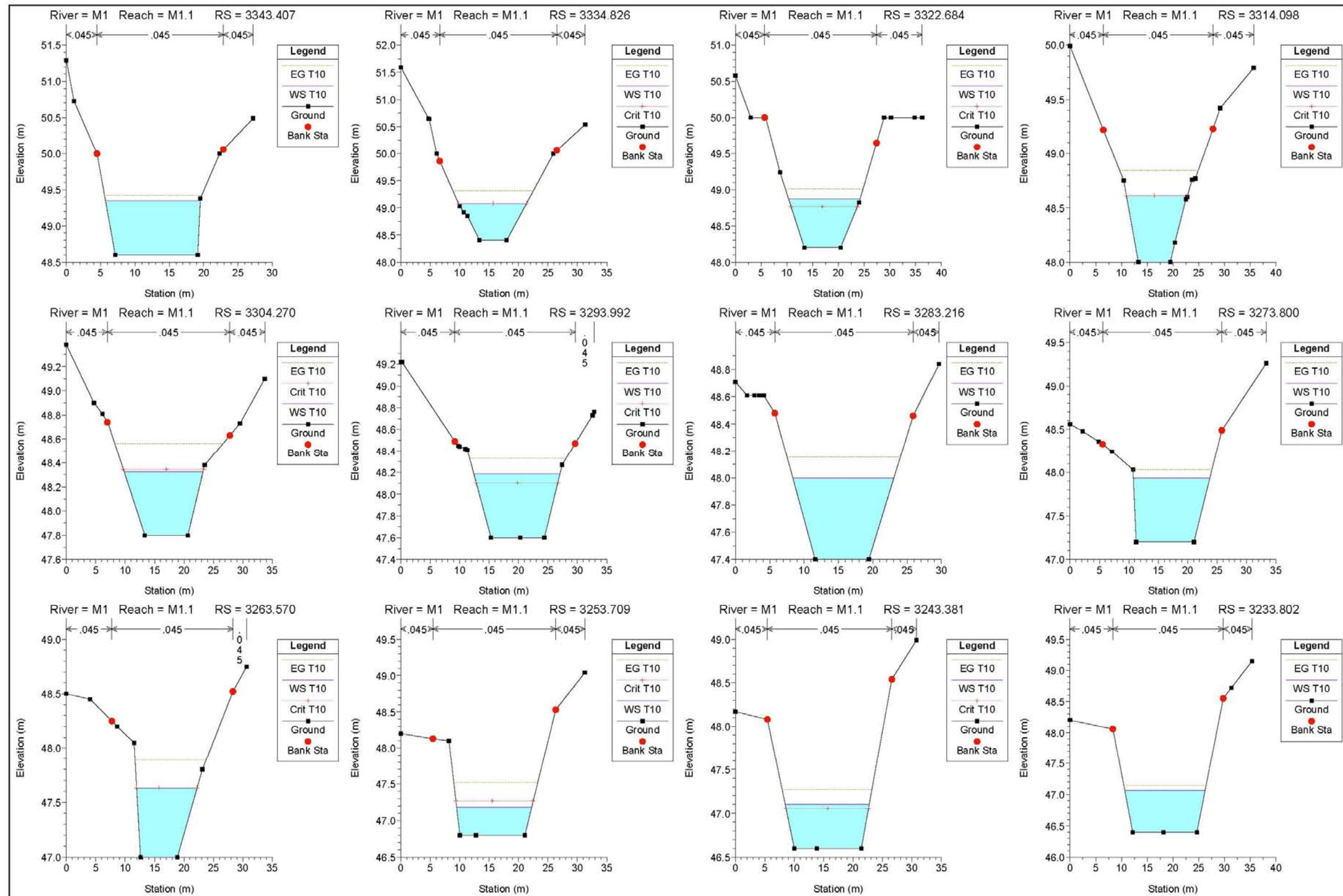
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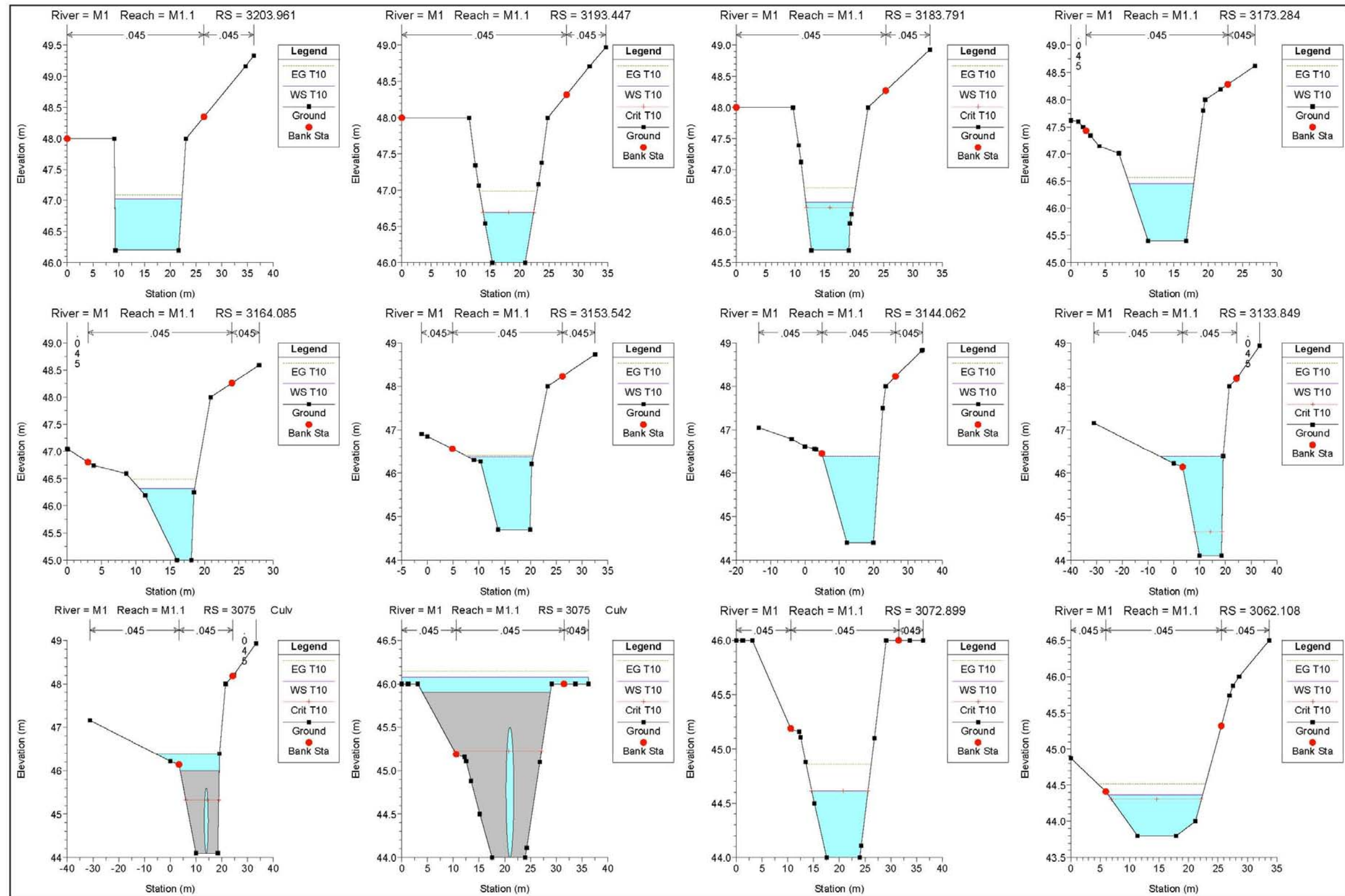
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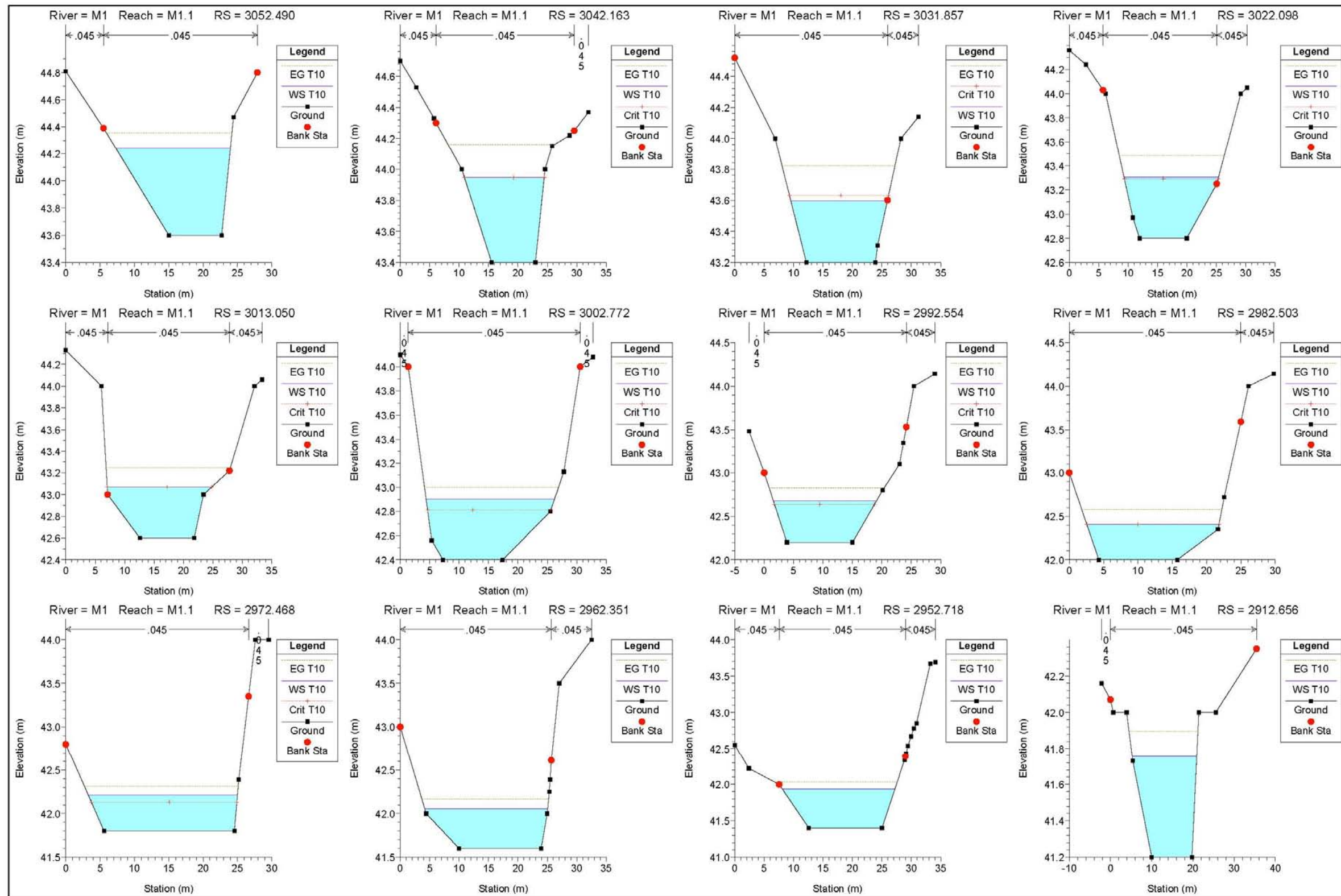
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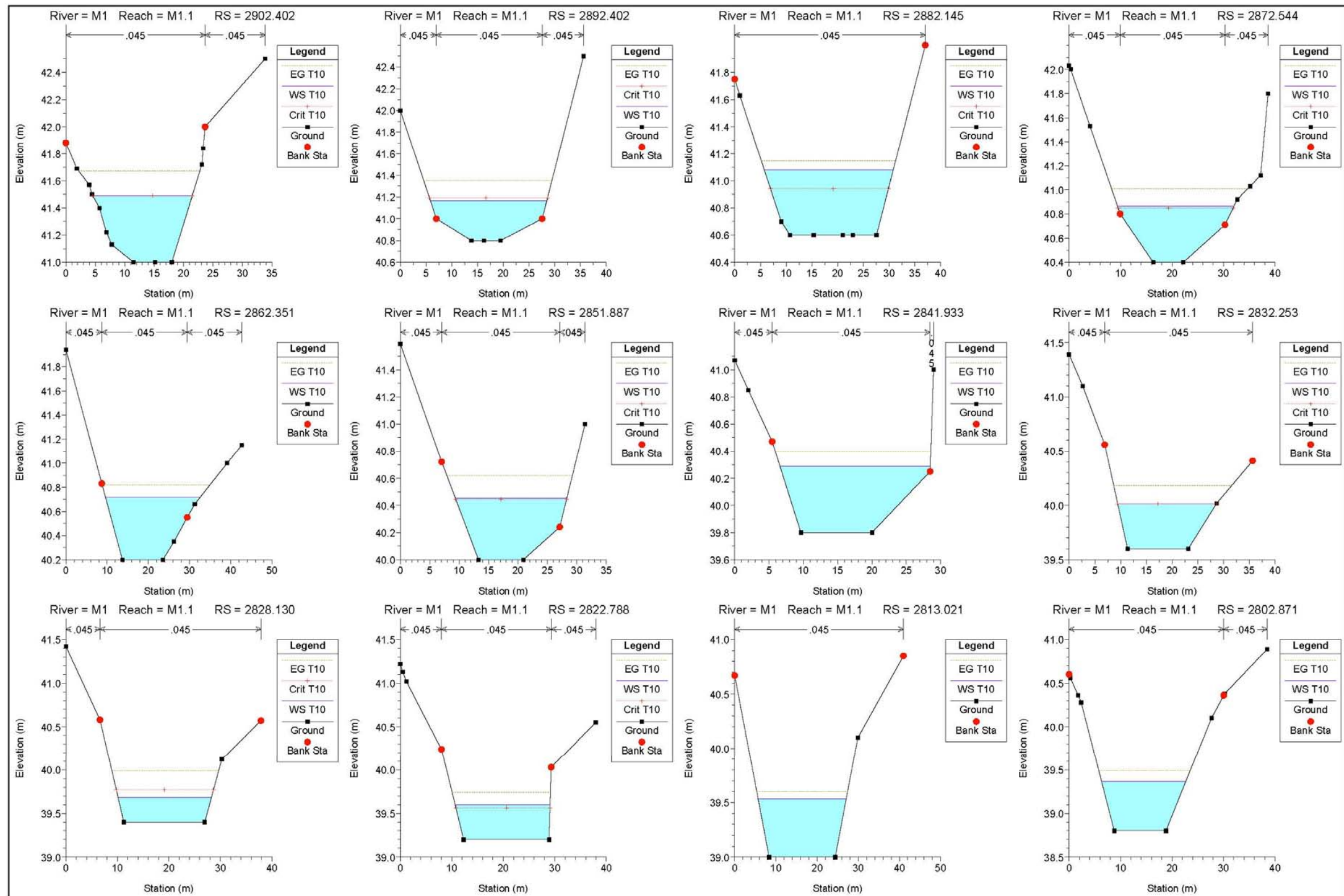
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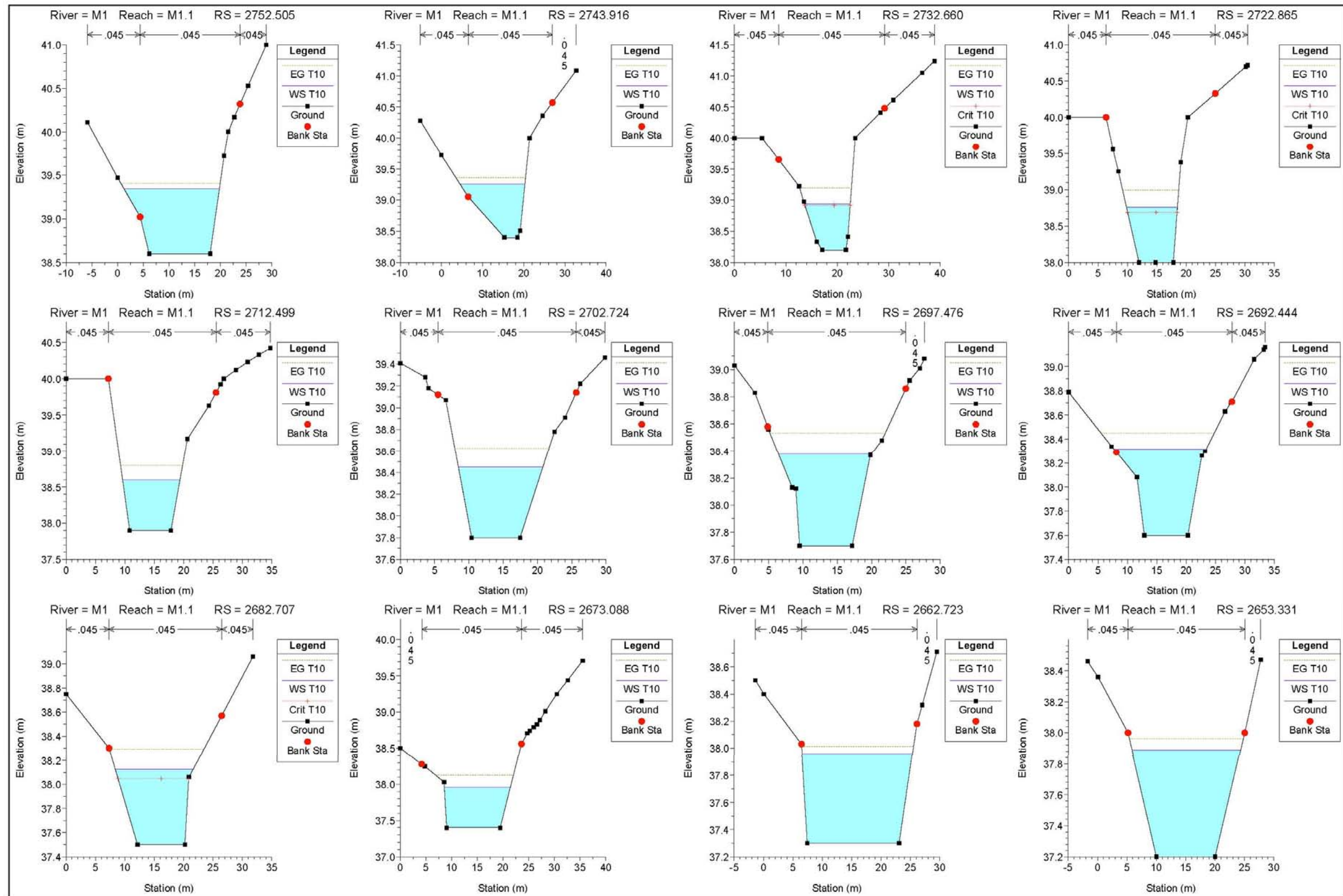
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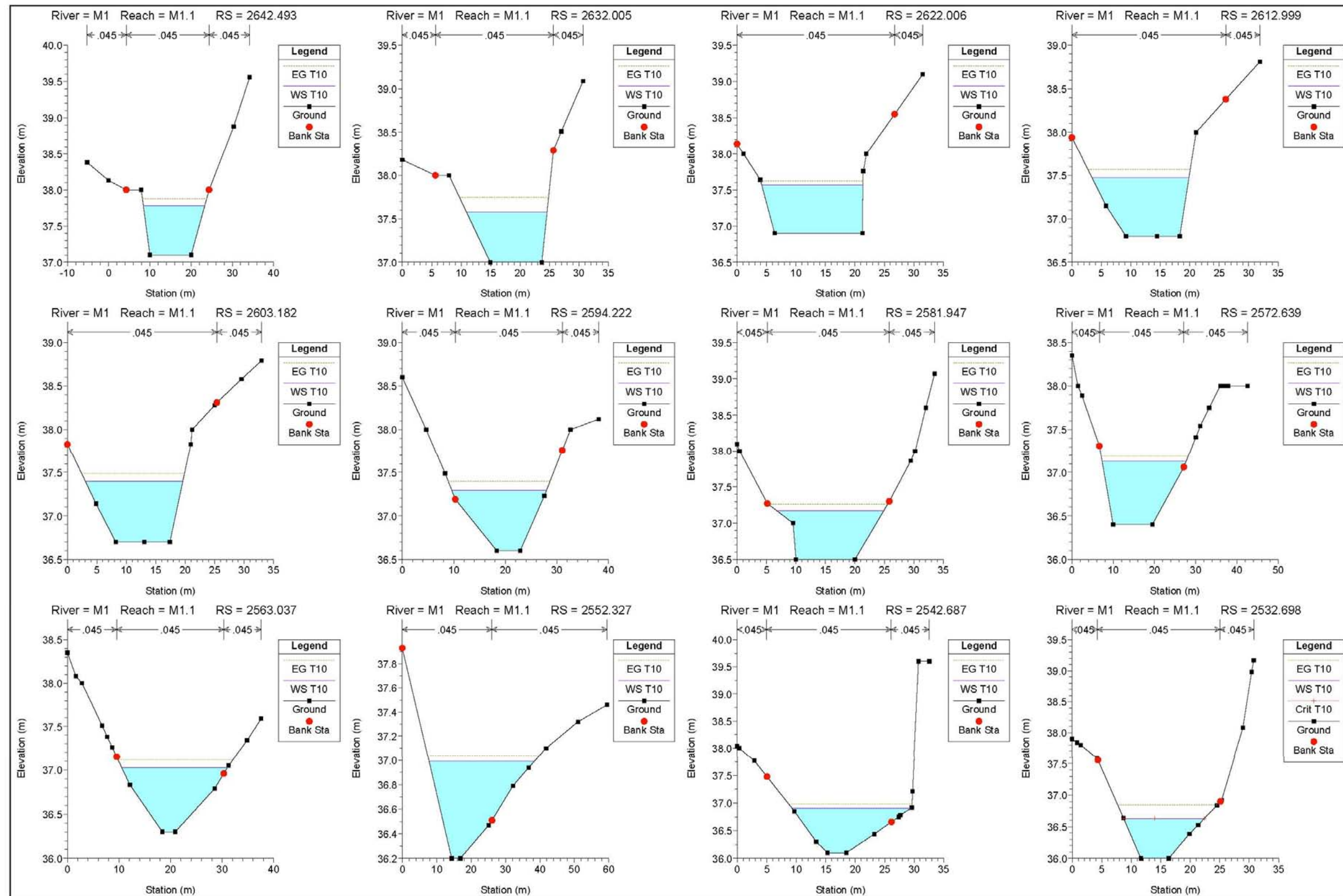
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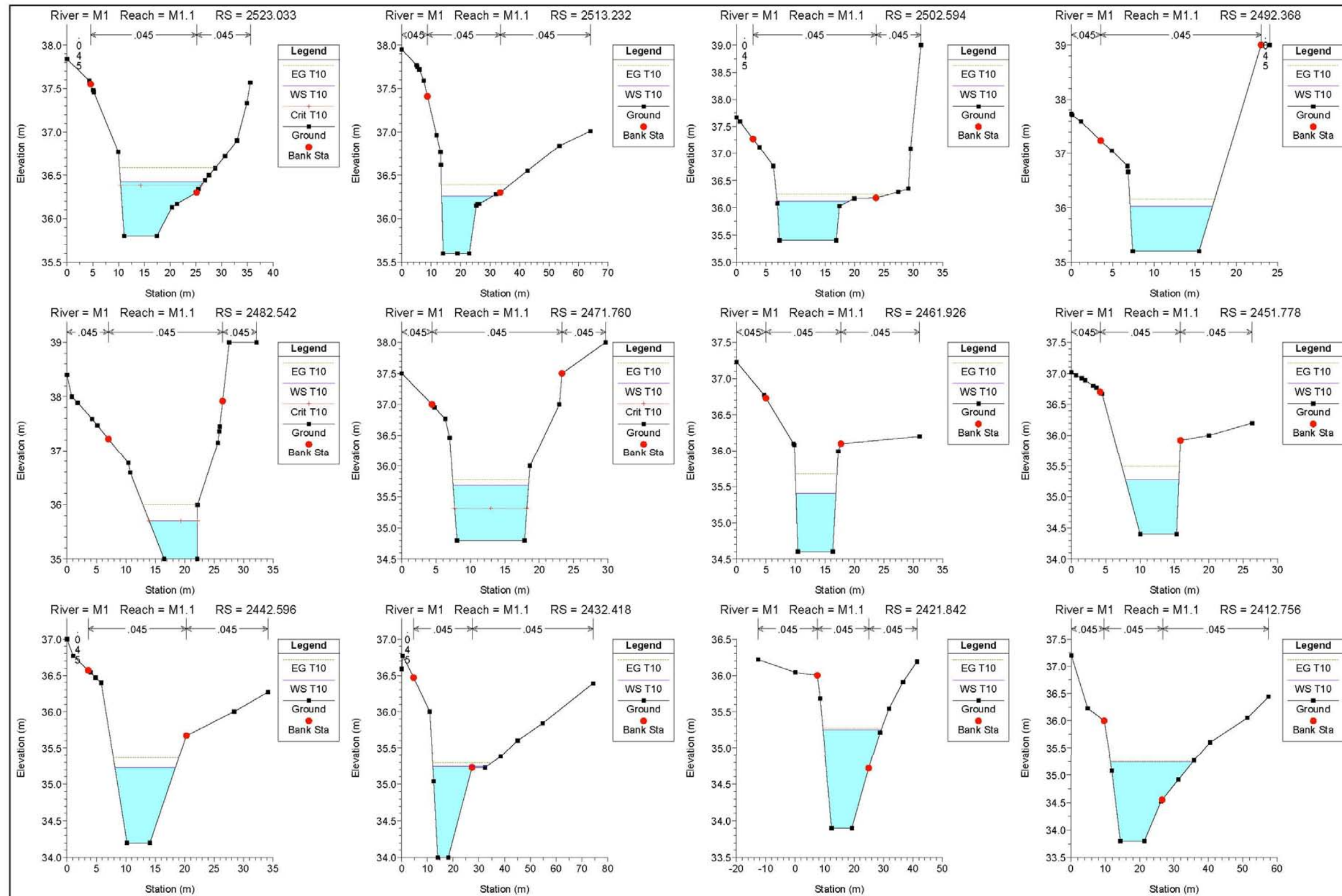
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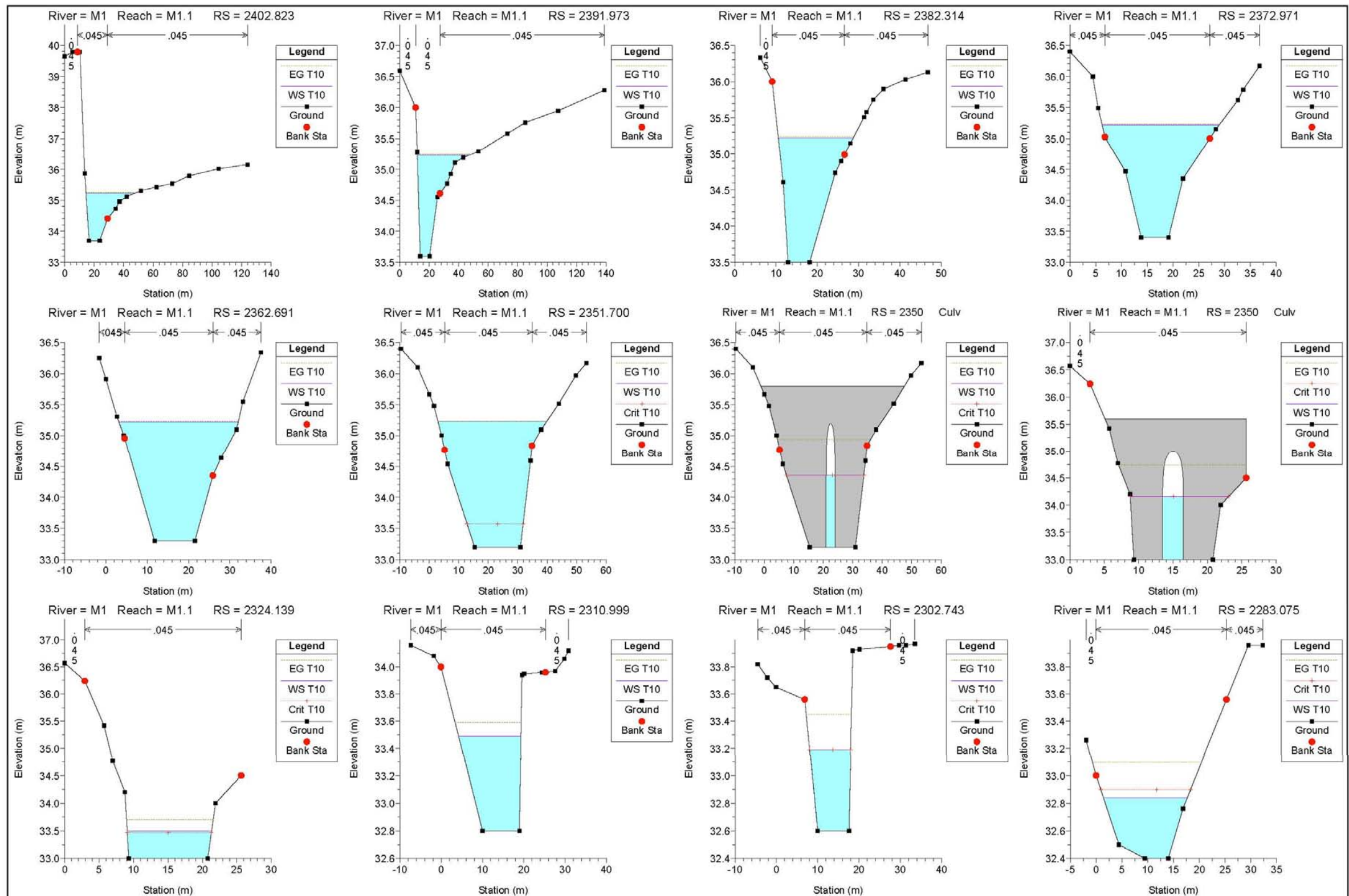
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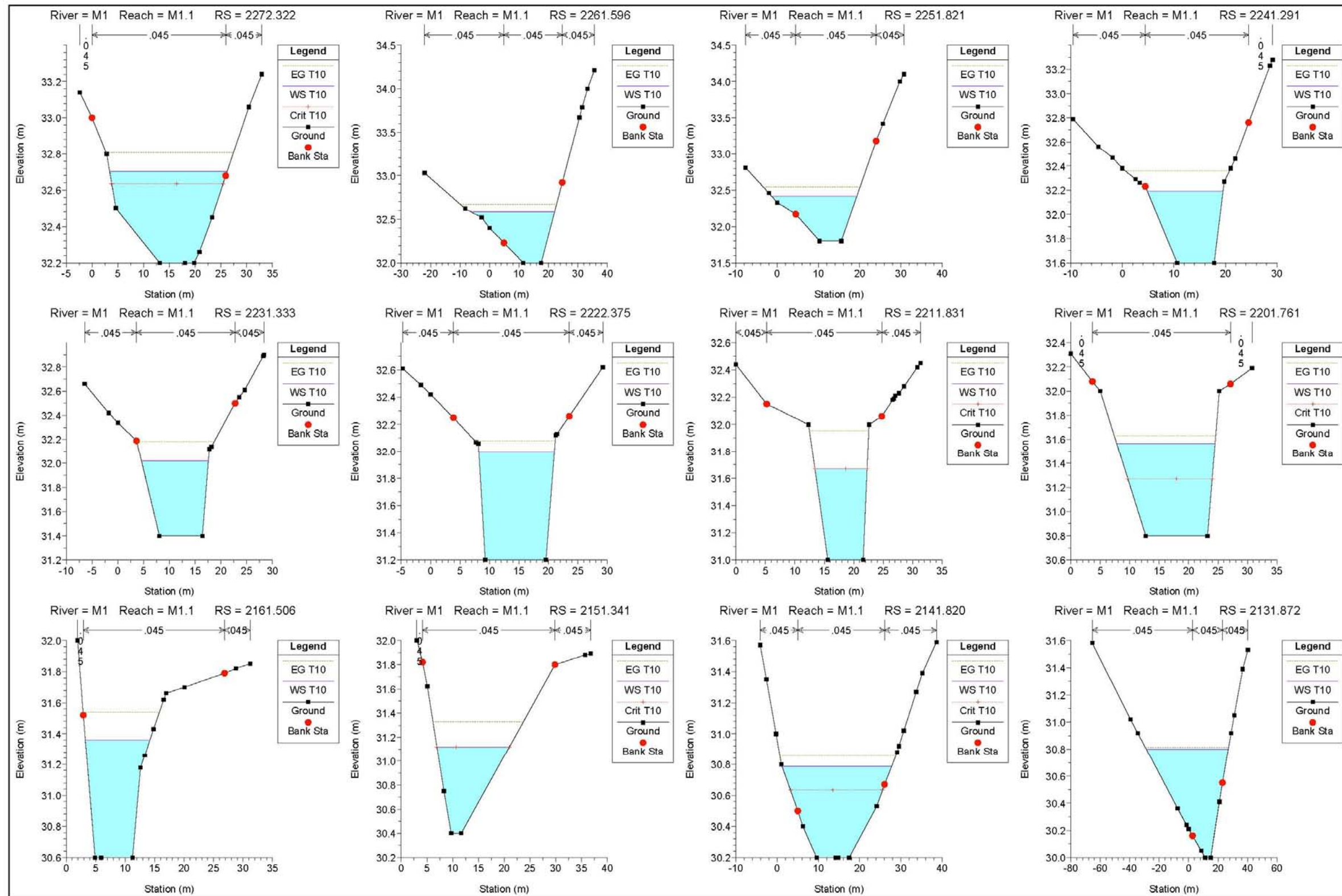
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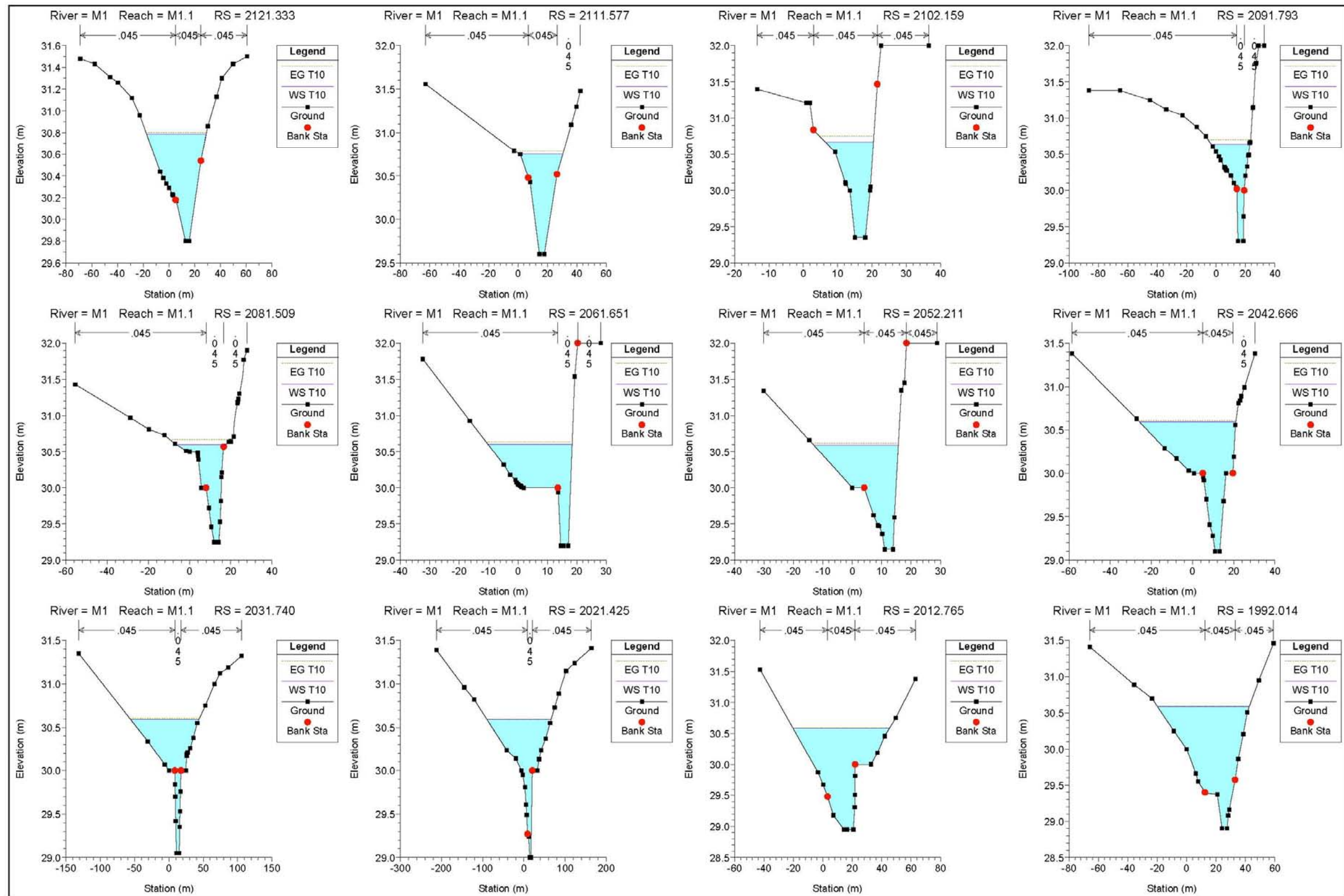
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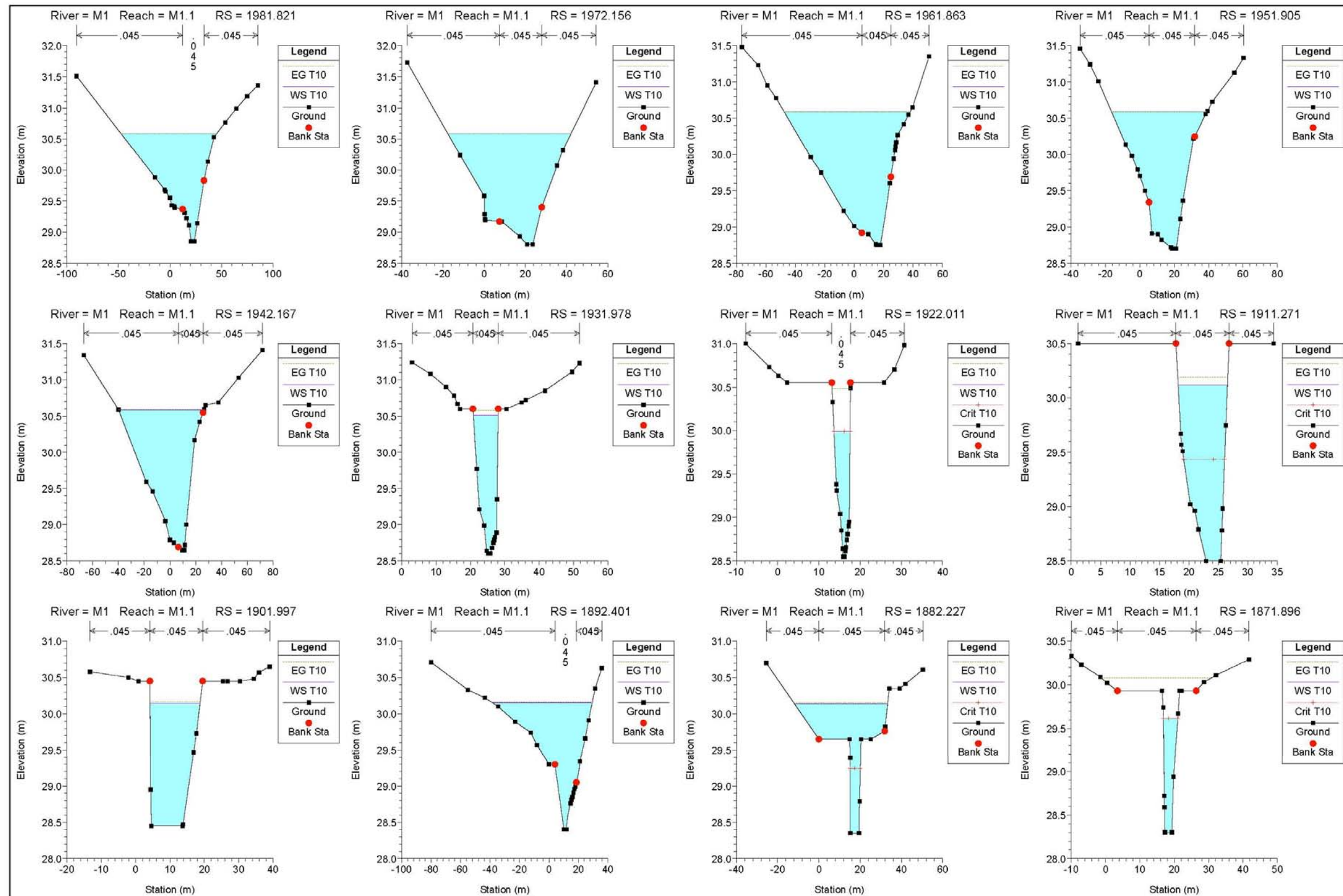
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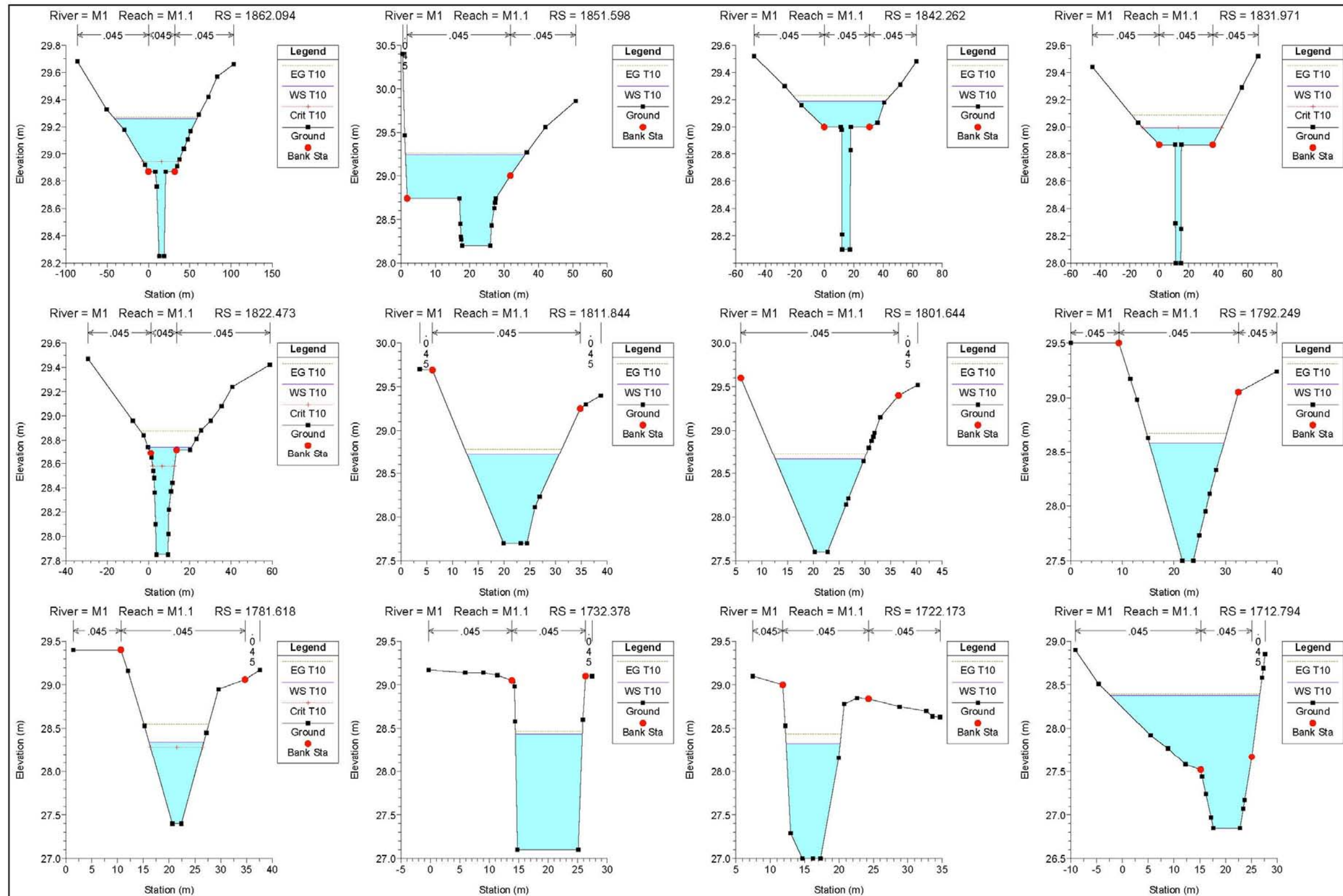
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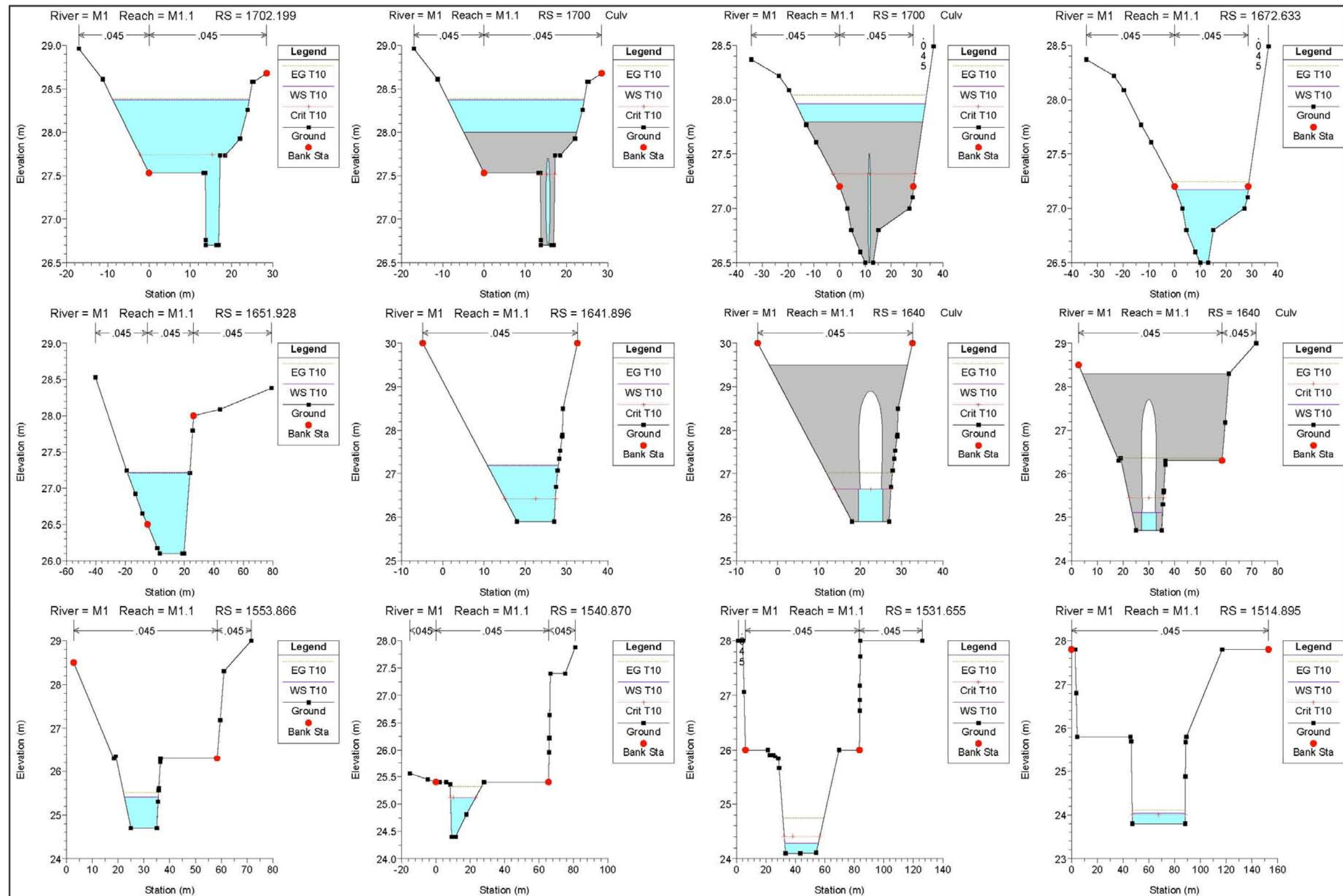
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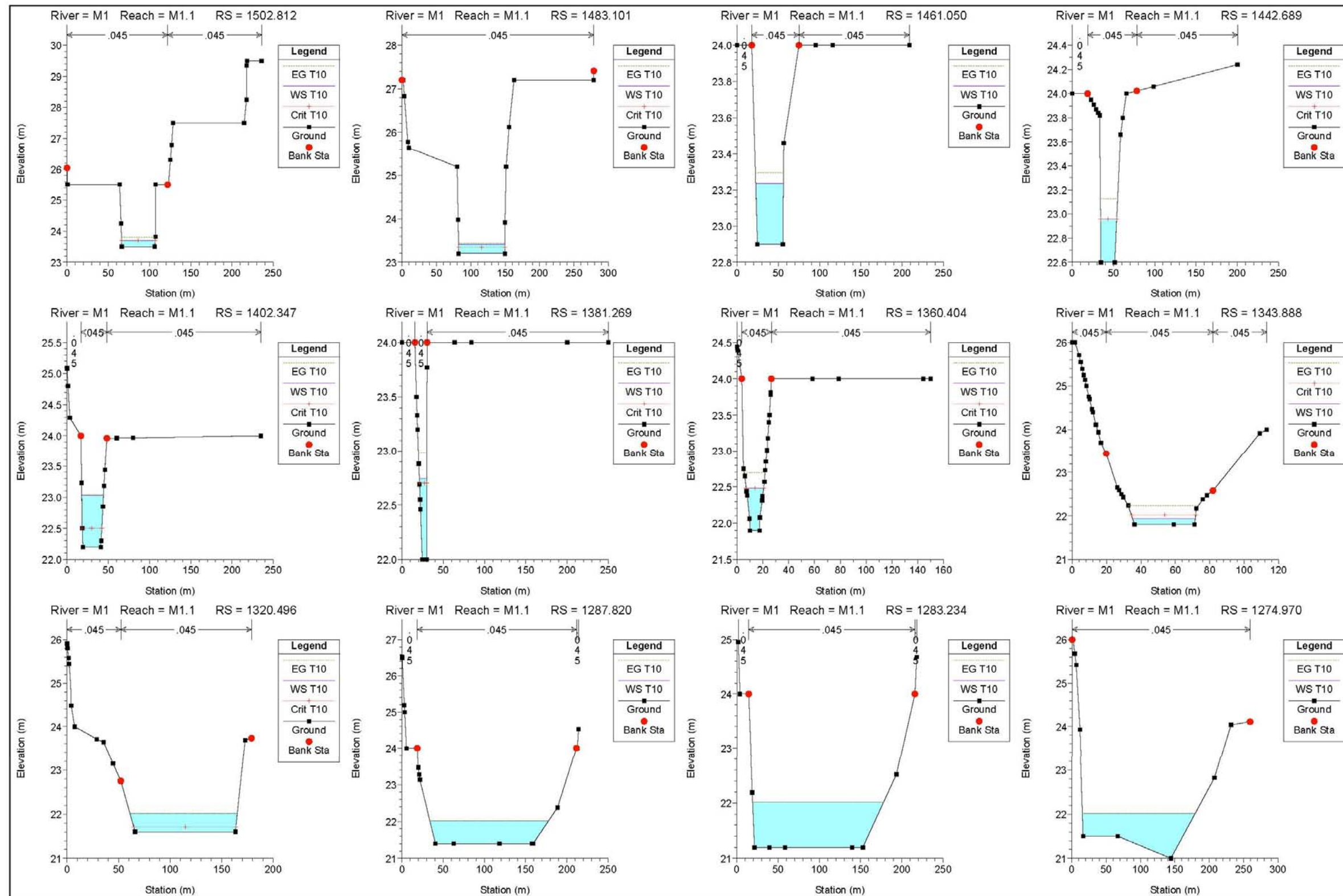
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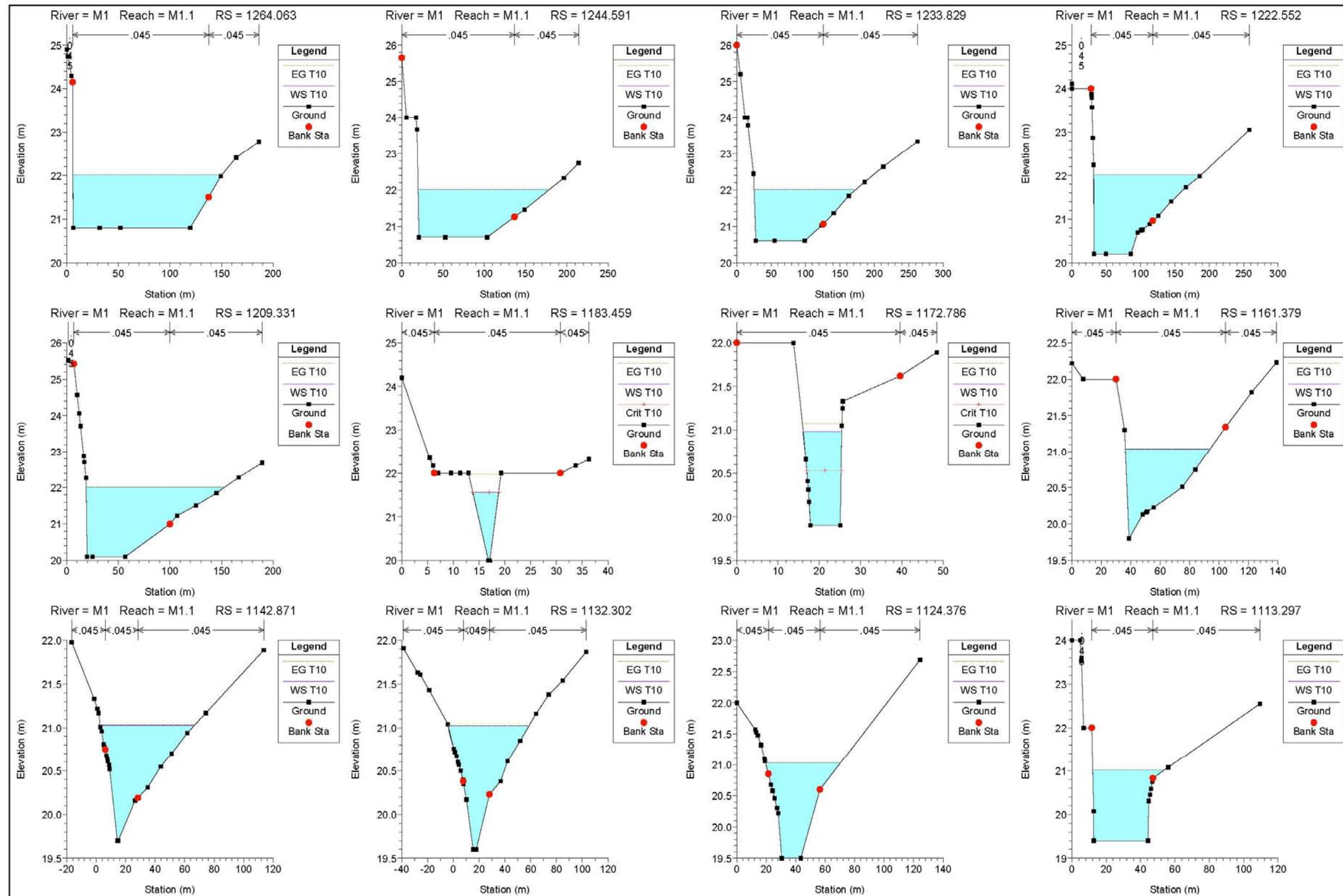
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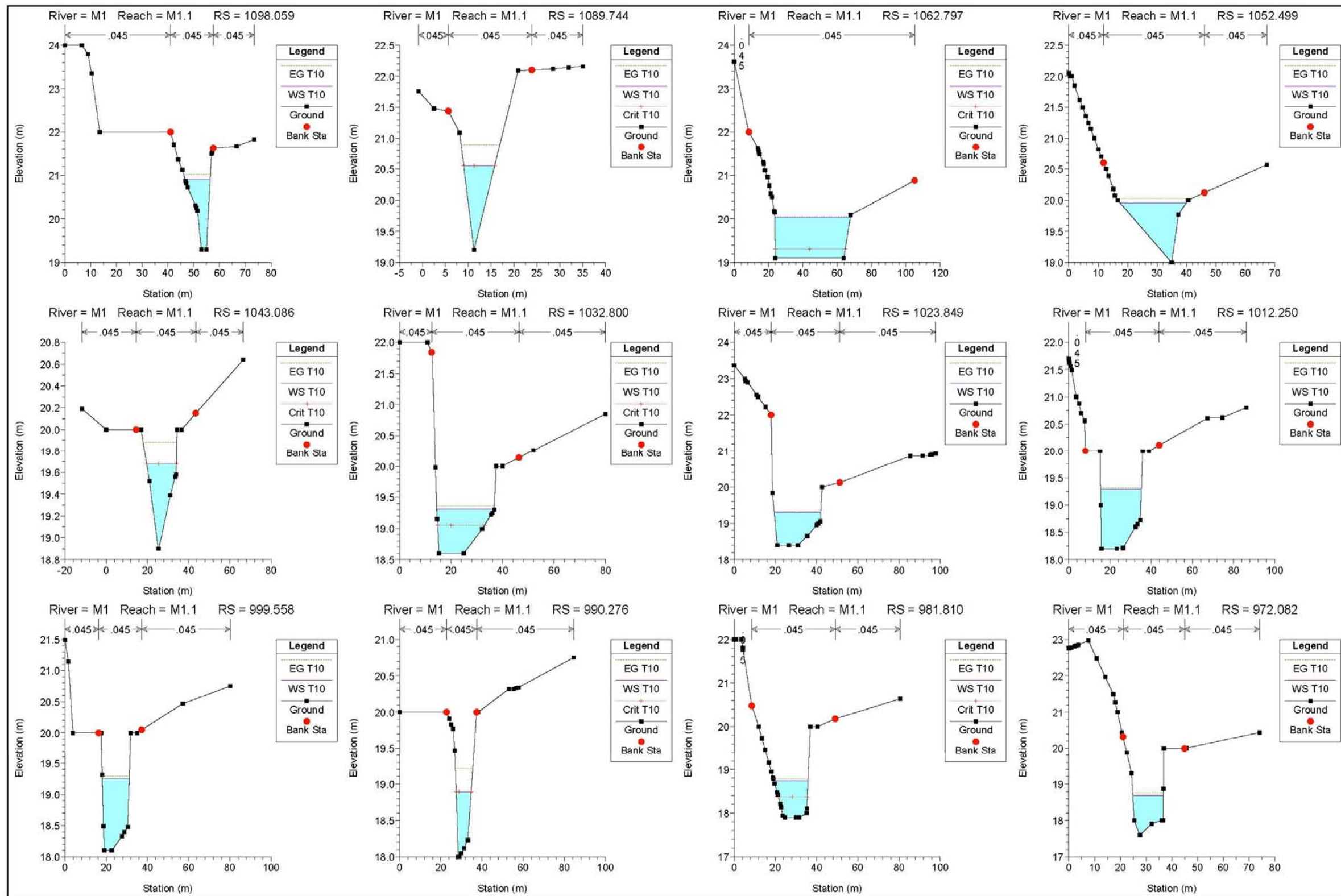
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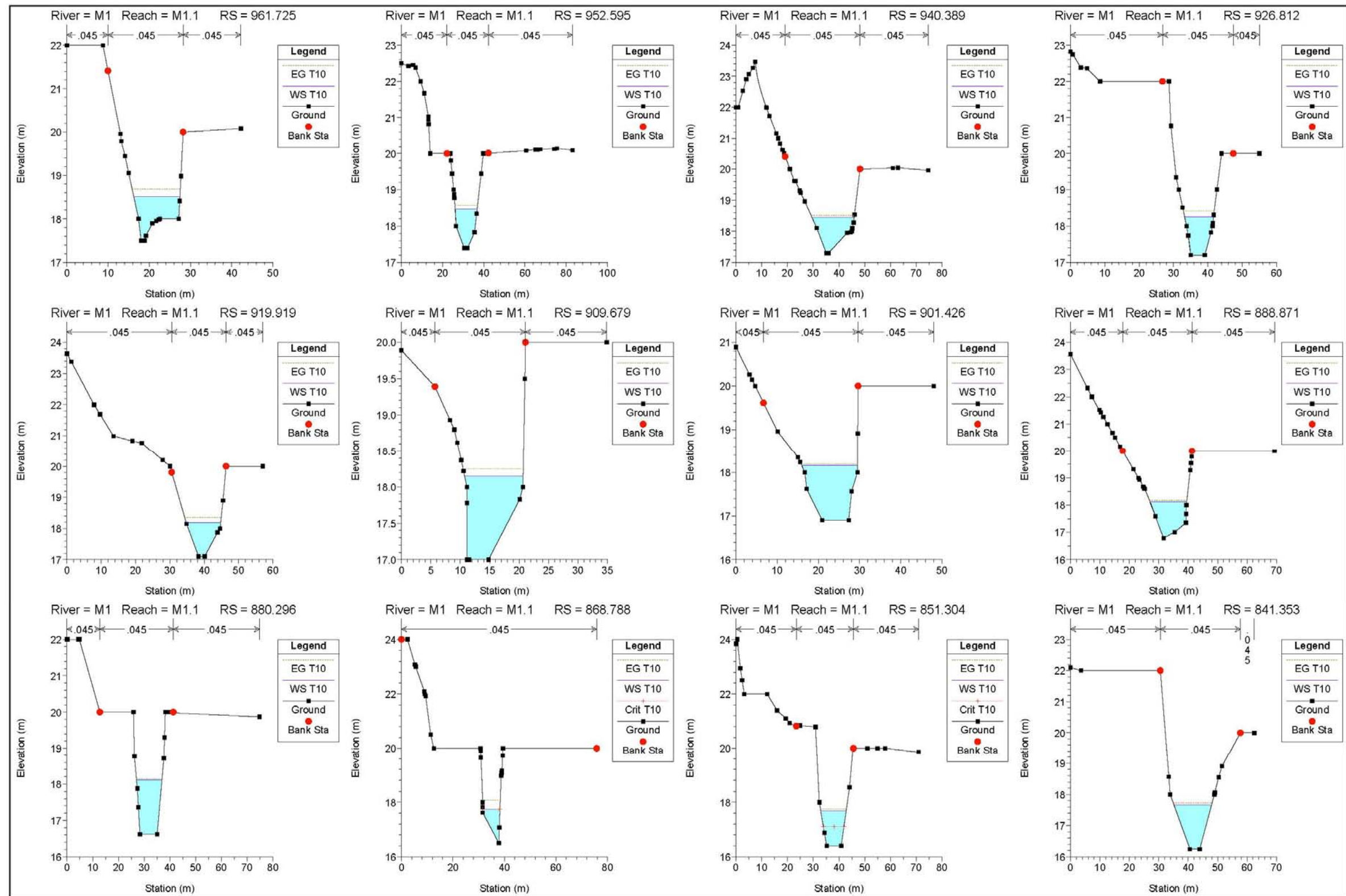
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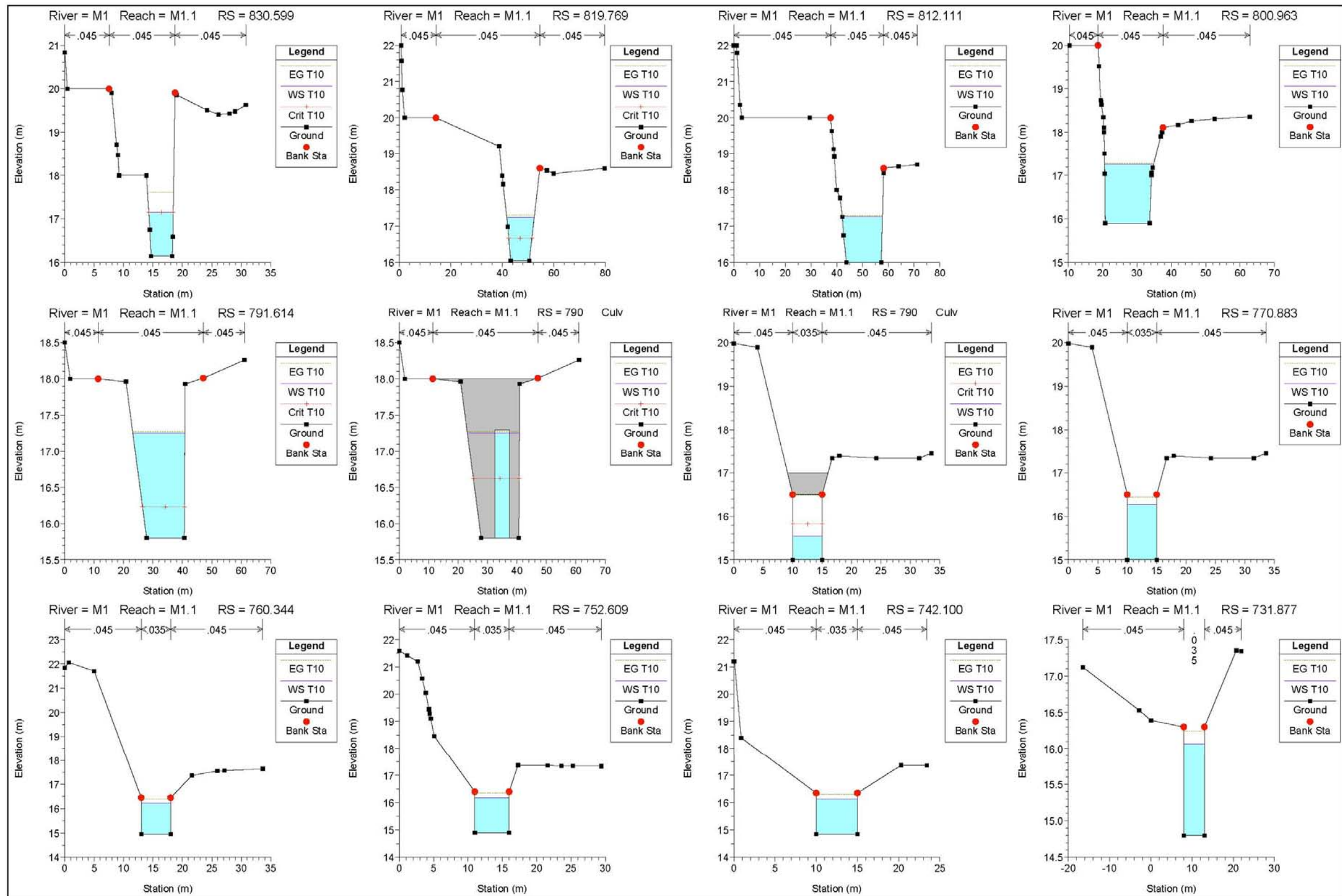
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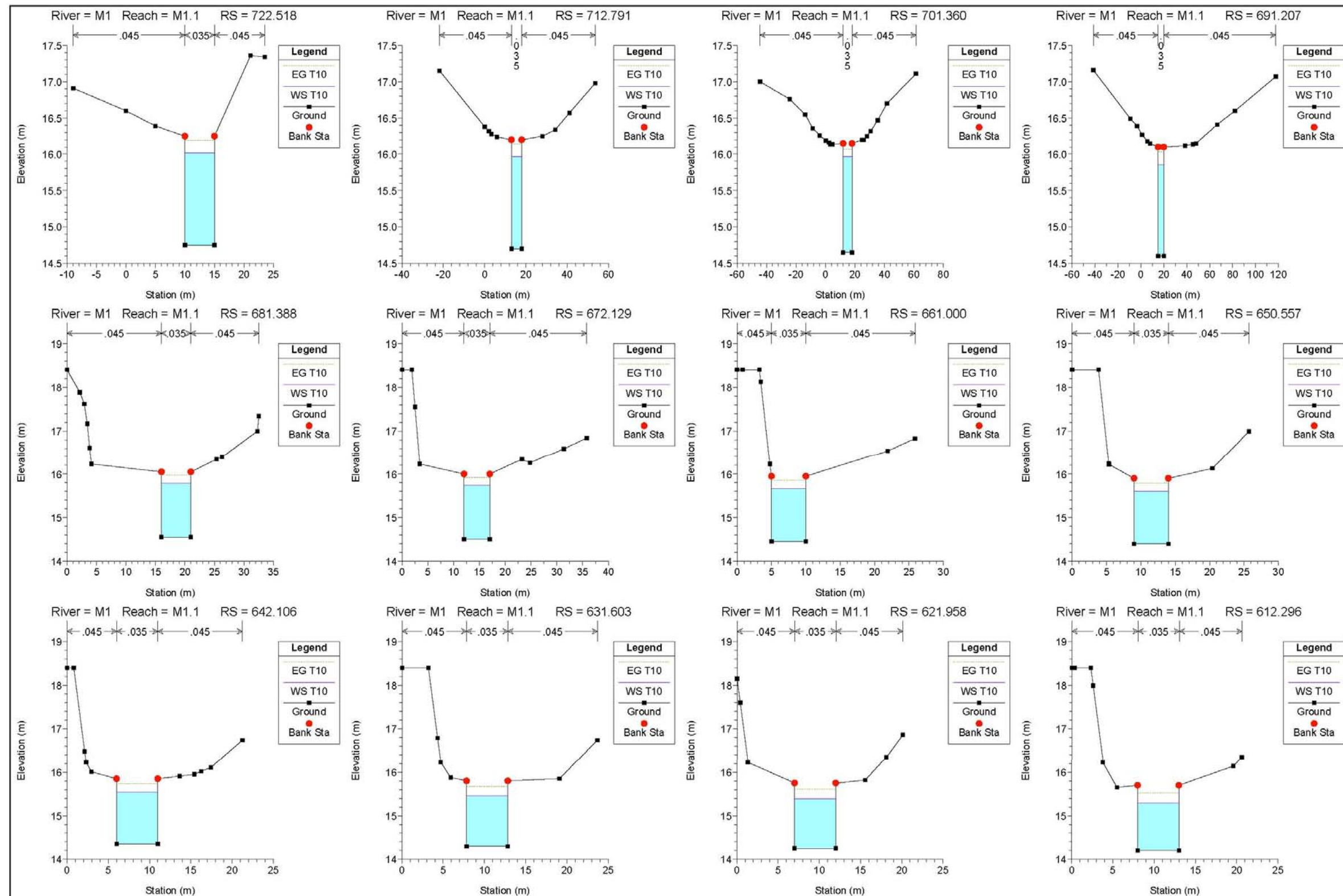
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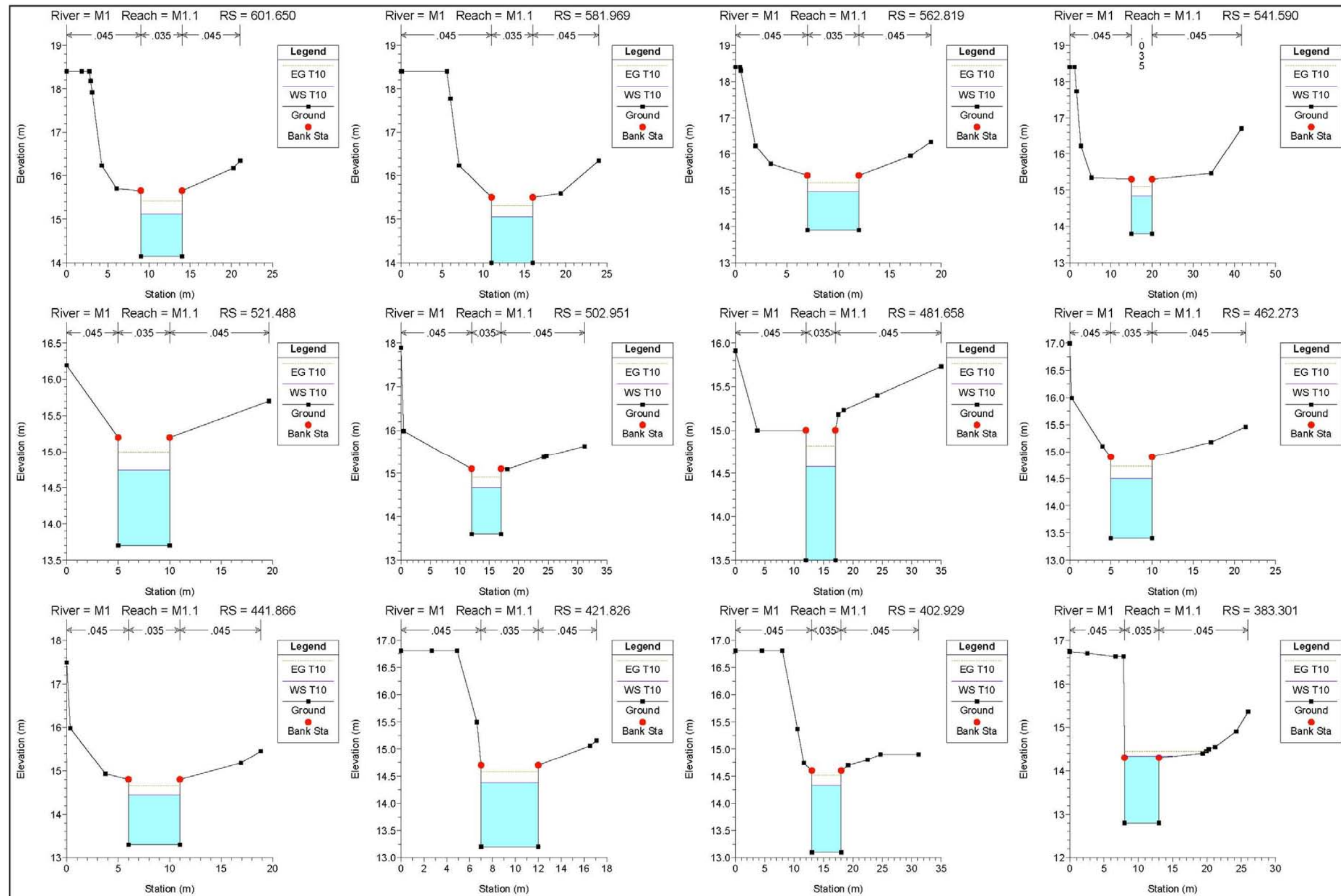
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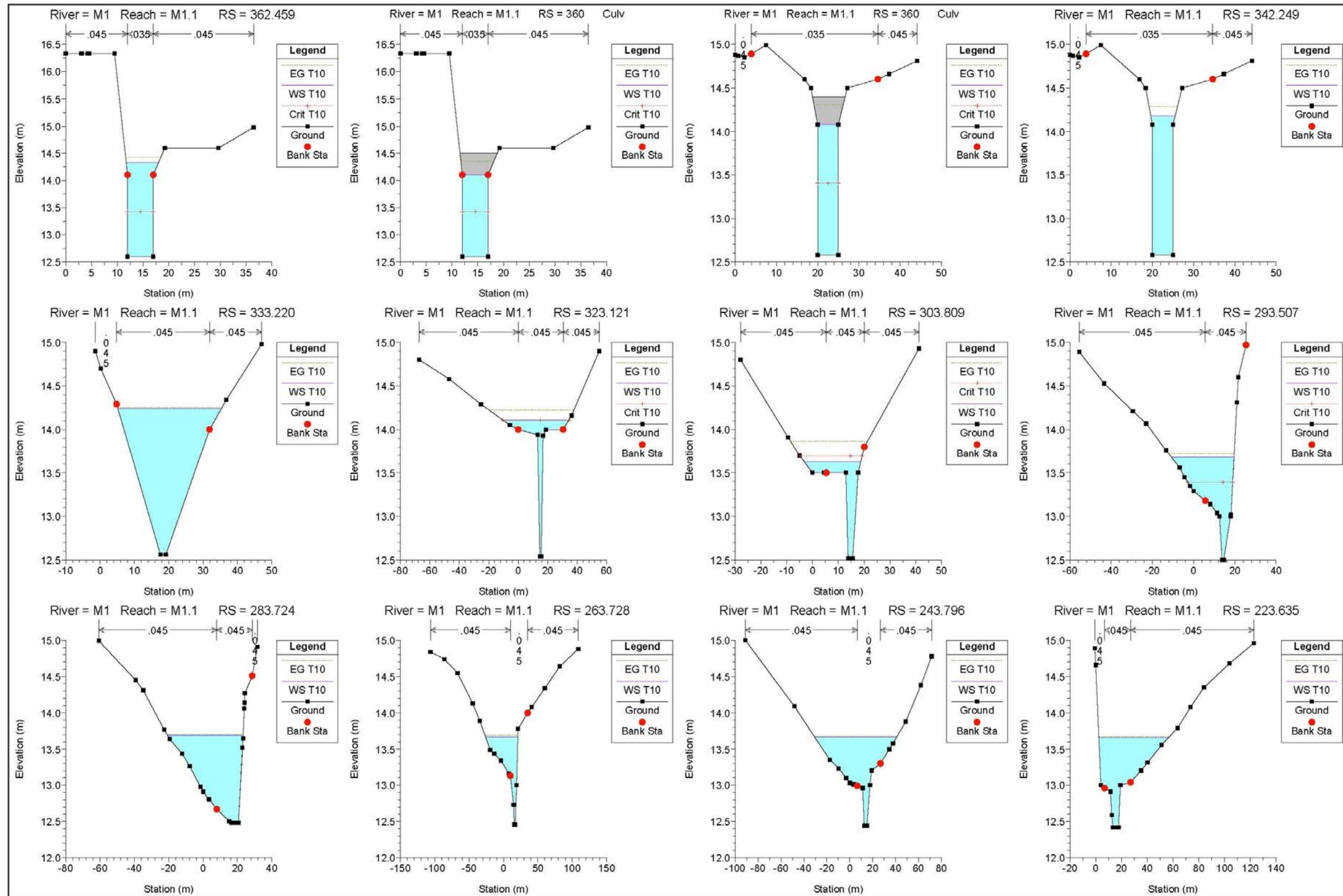
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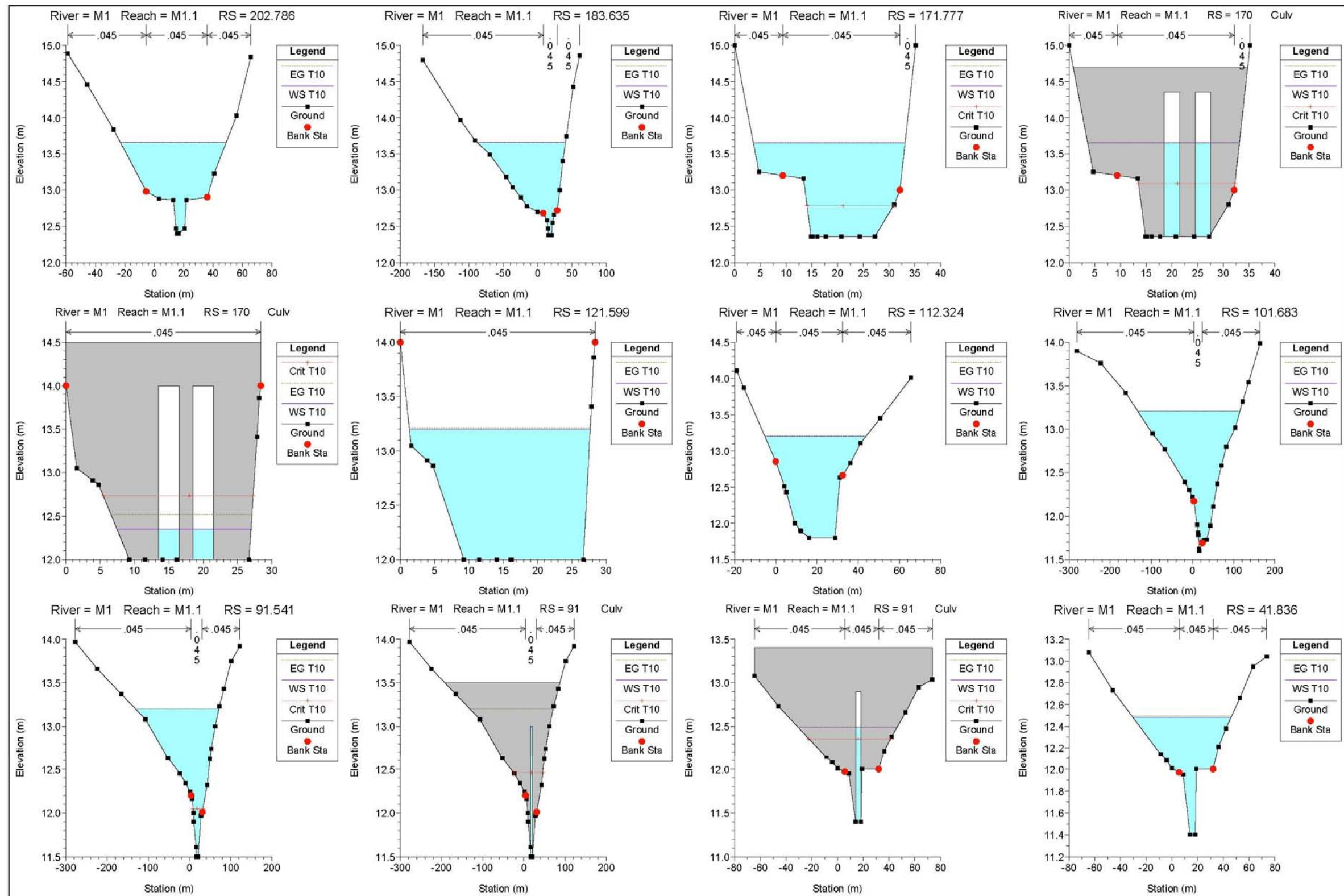
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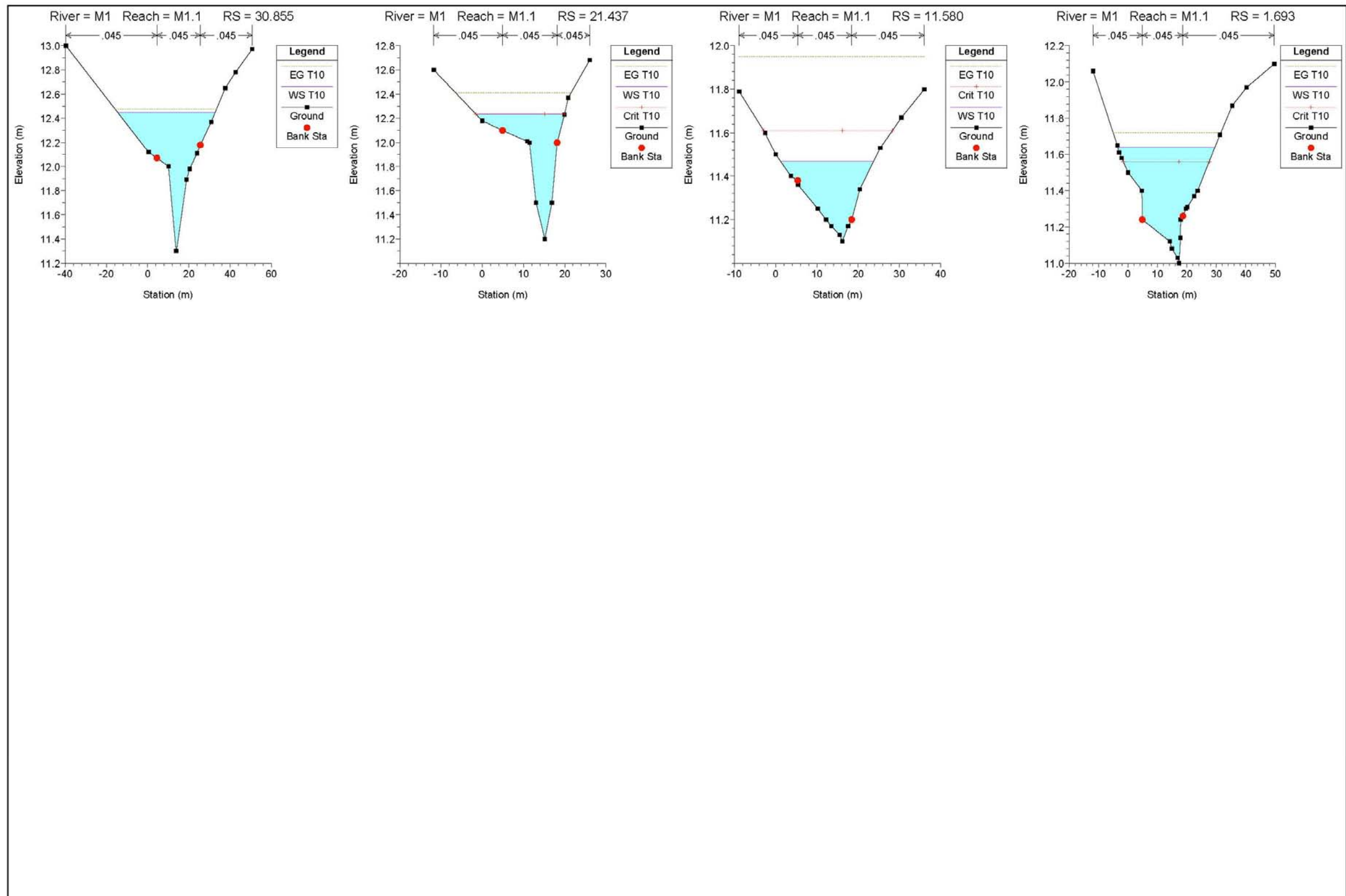
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3.2.4.- Tablas de resultados

HEC-RAS Plan: Plan 01 River: M1 Reach: M1.1 Profile: T10

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
M1.1	4405.889	T10	11.73	83.2	83.73	83.68	83.88	0.019967	1.73	6.79	16.4	0.86
M1.1	4396.867	T10	11.73	83	83.47	83.47	83.67	0.027865	1.97	5.96	15.33	1.01
M1.1	4356.251	T10	11.73	82.5	82.91	83	83.27	0.054741	2.64	4.43	12.04	1.39
M1.1	4346.717	T10	11.73	82.2	82.66	82.73	82.94	0.051837	2.34	5.02	15.73	1.32
M1.1	4337.253	T10	11.73	81.6	82.03	82.13	82.36	0.070122	2.56	4.59	15.97	1.52
M1.1	4327.23	T10	11.73	81	81.6	81.44	81.69	0.008676	1.3	9.03	17.94	0.58
M1.1	4317.391	T10	11.73	80.56	81.27	81.27	81.53	0.025933	2.27	5.17	9.99	1.01
M1.1	4306.271	T10	11.73	80	80.4	80.58	80.98	0.108127	3.36	3.49	11.06	1.91
M1.1	4297.095	T10	11.73	79.5	80.08	80.12	80.35	0.036761	2.27	5.16	13.12	1.16
M1.1	4286.749	T10	11.73	78	78.43	78.75	79.55	0.175116	4.67	2.51	6.81	2.46
M1.1	4276.107	T10	11.73	76.5	77.05	77.33	77.98	0.117674	4.28	2.74	6.26	2.06
M1.1	4266.334	T10	11.73	76	76.47	76.62	77	0.0687	3.24	3.62	8.47	1.58
M1.1	4256.35	T10	11.73	75.5	76.15	76.2	76.46	0.034482	2.47	4.74	10	1.15
M1.1	4247.021	T10	11.73	75	75.39	75.56	75.95	0.088401	3.31	3.54	9.54	1.74
M1.1	4236.416	T10	11.73	74.5	74.93	75	75.25	0.042473	2.48	4.74	11.66	1.24
M1.1	4226.686	T10	11.73	74	74.42	74.51	74.78	0.053535	2.67	4.39	11.55	1.38
M1.1	4218.314	T10	11.73	73.5	74.15	73.96	74.25	0.008467	1.43	8.23	13.76	0.59
M1.1	4208		Inl Struct									
M1.1	4207.092	T10	11.73	73	73.43	73.43	73.63	0.027801	2.01	5.84	14.32	1.01
M1.1	4197.922	T10	11.73	72	72.43	72.64	73.14	0.103046	3.73	3.14	8.06	1.91
M1.1	4187.228	T10	11.73	71.7	72.24	72.27	72.55	0.032984	2.47	4.75	9.47	1.11
M1.1	4177.202	T10	11.73	71.4	71.97	71.97	72.25	0.027361	2.34	5.01	9.31	1.02
M1.1	4166.763	T10	11.73	71	71.39	71.51	71.82	0.063481	2.88	4.07	10.46	1.47
M1.1	4157.226	T10	11.73	70.5	71.06	71.09	71.36	0.032411	2.44	4.81	9.84	1.11
M1.1	4146.907	T10	11.73	70	70.32	70.47	70.81	0.094874	3.08	3.8	12.43	1.78
M1.1	4137.347	T10	11.73	69.7	70.07	70.15	70.39	0.053828	2.54	4.61	12.97	1.36
M1.1	4127.247	T10	11.73	69.5	70.17	69.94	70.27	0.007278	1.37	8.58	13.09	0.54
M1.1	4118.041	T10	11.73	69.3	69.89	69.89	70.13	0.02636	2.2	5.34	10.96	1.01
M1.1	4107.455	T10	11.73	68.5	69	69.2	69.63	0.086047	3.52	3.33	8.25	1.77
M1.1	4097.195	T10	11.73	68.3	68.81	68.88	69.17	0.040171	2.64	4.44	9.36	1.23
M1.1	4086.771	T10	11.73	68	68.49	68.52	68.77	0.032636	2.34	5.01	10.92	1.1
M1.1	4076.601	T10	11.73	67.5	67.85	67.97	68.27	0.073826	2.89	4.06	12.03	1.59
M1.1	4066.44	T10	11.73	67	67.39	67.44	67.67	0.043081	2.37	4.96	13.02	1.22
M1.1	4056.975	T10	11.73	66.6	67.23	66.99	67.3	0.005846	1.19	9.84	15.95	0.48
M1.1	4047.508	T10	11.73	66.4	67.23		67.26	0.00179	0.79	14.93	18.3	0.28
M1.1	4036.029	T10	11.73	66.2	66.93	66.93	67.19	0.02583	2.26	5.19	10.04	1
M1.1	4027.036	T10	11.73	66	66.75	66.63	66.92	0.014135	1.8	6.5	11.22	0.76
M1.1	4016.626	T10	11.73	65.8	66.44	66.44	66.71	0.025948	2.29	5.12	9.69	1.01
M1.1	4006.221	T10	11.73	65.4	65.95	66.05	66.35	0.044407	2.8	4.19	8.69	1.29
M1.1	3995.319	T10	11.73	65	65.51	65.59	65.87	0.041625	2.65	4.42	9.52	1.24
M1.1	3985.742	T10	11.73	64.5	64.96	65.08	65.4	0.055903	2.94	3.99	9.13	1.42
M1.1	3975.612	T10	11.73	64	64.56	64.63	64.92	0.037857	2.65	4.43	8.93	1.2
M1.1	3965.989	T10	11.73	63.5	63.89	64.04	64.39	0.078377	3.14	3.74	10.21	1.65
M1.1	3960.773	T10	11.73	63.2	63.6	63.71	64.01	0.059502	2.83	4.15	10.41	1.43

HEC-RAS Plan: Plan 01 River: M1 Reach: M1.1 Profile: T10

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
M1.1	3955.467	T10	11.73	63	63.45	63.49	63.73	0.036907	2.35	4.99	11.72	1.15
M1.1	3952.212	T10	11.73	62.35	63.01	63.17	63.55	0.058829	3.27	3.59	7.38	1.49
M1.1	3945.81	T10	11.73	62	62.46	62.65	63.08	0.088681	3.5	3.35	8.55	1.78
M1.1	3935.69	T10	11.73	61.8	62.28	62.37	62.65	0.04909	2.7	4.35	10.57	1.34
M1.1	3925.346	T10	11.73	61.6	62.16	62.16	62.41	0.02621	2.22	5.29	10.71	1.01
M1.1	3920.939	T10	11.73	61.3	61.66	61.82	62.18	0.091013	3.2	3.67	10.98	1.77
M1.1	3915.697	T10	11.73	61	61.39	61.49	61.76	0.058477	2.71	4.33	11.94	1.43
M1.1	3905.853	T10	11.73	60.8	61.41	61.24	61.52	0.009036	1.44	8.15	14.01	0.6
M1.1	3895.521	T10	11.73	60.6	61.36		61.43	0.005794	1.23	9.57	15.25	0.49
M1.1	3885.487	T10	11.73	60.39	61.08	61.08	61.31	0.026428	2.15	5.45	11.7	1.01
M1.1	3874.533	T10	11.73	60	60.43	60.55	60.86	0.065553	2.92	4.02	10.76	1.53
M1.1	3864.307	T10	11.73	59.8	60.18	60.23	60.43	0.046201	2.25	5.21	16	1.26
M1.1	3854.532	T10	11.73	59.6	60.15	60.06	60.28	0.01434	1.59	7.39	15.88	0.74
M1.1	3844.367	T10	11.73	59.4	60.04		60.15	0.009584	1.49	7.88	13.33	0.62
M1.1	3834.58	T10	11.73	59.2	59.74	59.74	59.99	0.026672	2.23	5.27	10.53	1.01
M1.1	3823.952	T10	11.73	59	59.44	59.47	59.66	0.035264	2.1	5.58	15.55	1.12
M1.1	3814.445	T10	11.73	58.8	59.35	59.22	59.46	0.011843	1.5	7.82	15.74	0.68
M1.1	3802.146	T10	11.73	58.6	59.03	59.03	59.24	0.027642	2.01	5.84	14.28	1
M1.1	3794.138	T10	11.73	58.4	58.81	58.81	59.01	0.029005	2.01	5.84	14.8	1.02
M1.1	3789.233	T10	11.73	58.2	58.57	58.62	58.84	0.042492	2.29	5.13	14.11	1.21
M1.1	3784.294	T10	11.73	58	58.5	58.46	58.69	0.021203	1.93	6.07	12.51	0.89
M1.1	3774.233	T10	11.73	57.8	58.49		58.56	0.005186	1.18	9.92	14.55	0.46
M1.1	3764.431	T10	11.73	57.6	58.18	58.18	58.45	0.02575	2.27	5.16	9.68	0.99
M1.1	3753.948	T10	11.73	57.4	57.92	57.92	58.17	0.026548	2.19	5.35	11.01	1
M1.1	3744.302	T10	11.73	57.2	57.79	57.67	57.93	0.012114	1.62	7.22	12.94	0.69
M1.1	3733.916	T10	11.73	57	57.52	57.52	57.74	0.026988	2.06	5.7	13.33	1.01
M1.1	3724.307	T10	11.73	56.3	56.66	56.84	57.25	0.103371	3.38	3.47	10.49	1.88
M1.1	3714.492	T10	11.73	56	56.44	56.54	56.83	0.051743	2.76	4.25	10.26	1.37
M1.1	3703.832	T10	11.73	55.8	56.39	56.26	56.53	0.01221	1.63	7.19	12.8	0.69
M1.1	3693.867	T10	11.73	55.6	56.11	56.11	56.34	0.026482	2.14	5.49	11.84	1
M1.1	3684.194	T10	11.73	55.2	55.87	55.77	56.04	0.014182	1.81	6.48	11.16	0.76
M1.1	3674.194	T10	11.73	55	55.58	55.58	55.84	0.026024	2.28	5.16	9.87	1.01
M1.1	3664.125	T10	11.73	54.6	55.12	55.2	55.49	0.04395	2.72	4.31	9.39	1.28
M1.1	3654.185	T10	11.73	54.2	54.7	54.78	55.06	0.041947	2.65	4.43	9.65	1.25
M1.1	3644.286	T10	11.73	54	54.46	54.5	54.74	0.035974	2.35	4.99	11.66	1.15
M1.1	3633.902	T10	11.73	53.8	54.38	54.27	54.52	0.013098	1.63	7.18	13.64	0.72
M1.1	3623.905	T10	11.73	53.6	54.13	54.13	54.33	0.027464	1.98	5.91	14.87	1
M1.1	3614.216	T10	11.73	53.4	53.95	53.82	54.05	0.010992	1.39	8.44	17.99	0.65
M1.1	3603.252	T10	11.73	53.2	53.67	53.67	53.86	0.027876	1.95	6.02	15.74	1.01
M1.1	3594.209	T10	11.73	52.8	53.36	53.2	53.45	0.008454	1.32	9.02	17.83	0.58
M1.1	3584.111	T10	11.73	52.6	53.09	53.09	53.3	0.026697	2.05	5.79	13.9	1
M1.1	3575.298	T10	11.73	52.4	53.1	52.83	53.17	0.004723	1.2	10.3	16.71	0.46
M1.1	3563.468	T10	11.73	52.2	52.82	52.82	53.04	0.026452	2.1	5.6	12.55	1
M1.1	3553.804	T10	11.73	52	52.35	52.44	52.66	0.060908	2.47	4.75	15.58	1.43
M1.1	3543.492	T10	11.73	51.8	52.25	52.18	52.37	0.015665	1.51	7.76	19.23	0.76

HEC-RAS Plan: Plan 01 River: M1 Reach: M1.1 Profile: T10

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
M1.1	3533.832	T10	11.73	51.6	52.07		52.21	0.018233	1.64	7.18	17.88	0.82
M1.1	3523.211	T10	11.73	51.4	51.91		52.02	0.016027	1.45	8.09	21.83	0.76
M1.1	3502.066	T10	11.73	51.2	51.79		51.89	0.010602	1.37	8.55	18.34	0.64
M1.1	3493.862	T10	11.73	51	51.54	51.54	51.75	0.027529	2	5.87	14.63	1.01
M1.1	3483.589	T10	11.73	50.8	51.49	51.28	51.57	0.007571	1.3	9.05	16.35	0.56
M1.1	3473.455	T10	11.73	50.6	51.42		51.5	0.005944	1.27	9.21	14.13	0.5
M1.1	3463.35	T10	11.73	50.4	51.1	51.1	51.38	0.025736	2.31	5.07	9.42	1.01
M1.1	3453.791	T10	11.73	50.2	50.94	50.69	51.02	0.006284	1.26	9.28	15.07	0.51
M1.1	3443.336	T10	11.73	50	50.92		50.97	0.002948	0.96	12.2	16.29	0.35
M1.1	3433.939	T10	11.73	49.8	50.64	50.64	50.89	0.02638	2.2	5.32	10.94	1.01
M1.1	3422.915	T10	11.73	49.7	50.32	50.21	50.46	0.01303	1.61	7.27	14.19	0.72
M1.1	3413.027	T10	11.73	49.6	50.2		50.32	0.013229	1.56	7.51	15.58	0.72
M1.1	3402.942	T10	11.73	49.4	50.12		50.22	0.007722	1.37	8.59	14.18	0.56
M1.1	3392.723	T10	11.73	49.3	50.05		50.13	0.00773	1.32	8.87	15.79	0.56
M1.1	3382.675	T10	11.73	49.2	49.78	49.78	49.99	0.027186	2.05	5.72	13.57	1.01
M1.1	3378.181	T10	11.73	49	49.8	49.5	49.88	0.005491	1.26	9.33	13.32	0.48
M1.1	3373.309	T10	11.73	48.9	49.72		49.85	0.00941	1.55	7.58	12.17	0.63
M1.1	3363.159	T10	11.73	48.8	49.44	49.44	49.68	0.026185	2.19	5.36	11.15	1.01
M1.1	3353.316	T10	11.73	48.7	49.39	49.2	49.5	0.008977	1.44	8.17	14.19	0.6
M1.1	3343.407	T10	11.73	48.6	49.34		49.42	0.005182	1.22	9.62	13.8	0.47
M1.1	3334.826	T10	11.73	48.4	49.08	49.08	49.32	0.026252	2.16	5.44	11.59	1.01
M1.1	3322.684	T10	11.73	48.2	48.88	48.77	49.01	0.013709	1.65	7.1	13.91	0.74
M1.1	3314.098	T10	11.73	48	48.61	48.61	48.85	0.02633	2.14	5.49	11.89	1
M1.1	3304.27	T10	11.73	47.8	48.32	48.35	48.56	0.032114	2.17	5.41	13.38	1.09
M1.1	3293.992	T10	11.73	47.6	48.19	48.1	48.33	0.015689	1.69	6.96	14.64	0.78
M1.1	3283.216	T10	11.73	47.4	48		48.15	0.017328	1.73	6.77	14.73	0.82
M1.1	3273.8	T10	11.73	47.2	47.93		48.03	0.007502	1.4	8.38	13	0.56
M1.1	3263.57	T10	11.73	47	47.63	47.63	47.89	0.026194	2.24	5.23	10.28	1.01
M1.1	3253.709	T10	11.73	46.8	47.18	47.27	47.52	0.054156	2.58	4.55	12.75	1.38
M1.1	3243.381	T10	11.73	46.6	47.1	47.06	47.27	0.019662	1.82	6.45	14.28	0.86
M1.1	3233.802	T10	11.73	46.4	47.06		47.14	0.006582	1.26	9.29	15.59	0.52
M1.1	3203.961	T10	11.73	46.2	47.03		47.09	0.003812	1.12	10.46	13.04	0.4
M1.1	3193.447	T10	11.73	46	46.69	46.69	46.98	0.025356	2.39	4.91	8.56	1.01
M1.1	3183.791	T10	11.73	45.7	46.47	46.38	46.7	0.017402	2.15	5.46	8.07	0.83
M1.1	3173.284	T10	11.73	45.4	46.45		46.57	0.006213	1.49	7.87	9.42	0.52
M1.1	3164.085	T10	11.73	45	46.31		46.48	0.010995	1.84	6.39	8.03	0.66
M1.1	3153.542	T10	11.73	44.7	46.37		46.41	0.001505	0.85	13.87	12.66	0.26
M1.1	3144.062	T10	11.73	44.4	46.38		46.4	0.000321	0.49	24.02	16.49	0.13
M1.1	3133.849	T10	11.73	44.1	46.39	44.65	46.39	0.000181	0.41	29.6	24.6	0.1
M1.1	3075		Culvert									
M1.1	3072.899	T10	11.73	44	44.61	44.61	44.86	0.02596	2.2	5.34	10.91	1
M1.1	3062.108	T10	11.73	43.8	44.36	44.31	44.51	0.018735	1.72	6.83	16.02	0.84
M1.1	3052.49	T10	11.73	43.6	44.24		44.36	0.012748	1.5	7.81	16.68	0.7
M1.1	3042.163	T10	11.73	43.4	43.95	43.95	44.16	0.027189	2.05	5.72	13.54	1.01
M1.1	3031.857	T10	11.73	43.2	43.6	43.63	43.83	0.039227	2.12	5.52	16.39	1.17

HEC-RAS Plan: Plan 01 River: M1 Reach: M1.1 Profile: T10

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
M1.1	3022.098	T10	11.73	42.8	43.31	43.29	43.49	0.024593	1.88	6.26	16.09	0.95
M1.1	3013.05	T10	11.73	42.6	43.07	43.07	43.25	0.02833	1.87	6.27	17.74	1
M1.1	3002.772	T10	11.73	42.4	42.9	42.81	43	0.013155	1.37	8.59	21.83	0.69
M1.1	2992.554	T10	11.73	42.2	42.68	42.64	42.83	0.020801	1.71	6.86	17.53	0.87
M1.1	2982.503	T10	11.73	42	42.41	42.41	42.58	0.029231	1.82	6.43	19.26	1.01
M1.1	2972.468	T10	11.73	41.8	42.21	42.13	42.31	0.014007	1.39	8.44	21.75	0.71
M1.1	2962.351	T10	11.73	41.6	42.06		42.16	0.015128	1.45	8.1	20.92	0.74
M1.1	2952.718	T10	11.73	41.4	41.94		42.03	0.011586	1.38	8.47	19.13	0.66
M1.1	2912.656	T10	11.73	41.2	41.75		41.89	0.016326	1.66	7.07	15.65	0.79
M1.1	2902.402	T10	11.73	41	41.49	41.49	41.67	0.028296	1.9	6.17	16.93	1.01
M1.1	2892.402	T10	11.73	40.8	41.17	41.19	41.35	0.037516	1.91	6.25	22.64	1.12
M1.1	2882.145	T10	11.73	40.6	41.08	40.94	41.15	0.008878	1.15	10.21	25.05	0.57
M1.1	2872.544	T10	11.73	40.4	40.87	40.85	41.01	0.023794	1.67	7.11	22.66	0.91
M1.1	2862.351	T10	11.73	40.2	40.72		40.82	0.013389	1.42	8.41	22.94	0.71
M1.1	2851.887	T10	11.73	40	40.45	40.45	40.62	0.026604	1.83	6.48	18.91	0.97
M1.1	2841.933	T10	11.73	39.8	40.29		40.4	0.016378	1.46	8.05	21.91	0.77
M1.1	2832.253	T10	11.73	39.6	40.02	40.02	40.18	0.028959	1.82	6.44	19.2	1
M1.1	2828.13	T10	11.73	39.4	39.68	39.77	39.99	0.0733	2.46	4.76	18.12	1.53
M1.1	2822.788	T10	11.73	39.2	39.6	39.56	39.74	0.021154	1.68	7	18.44	0.87
M1.1	2813.021	T10	11.73	39	39.53		39.6	0.007837	1.18	9.96	21.38	0.55
M1.1	2802.871	T10	11.73	38.8	39.37		39.49	0.01413	1.56	7.5	16.37	0.74
M1.1	2752.505	T10	11.73	38.6	39.34		39.41	0.004211	1.1	10.95	18.57	0.43
M1.1	2743.916	T10	11.73	38.4	39.25		39.35	0.007939	1.4	8.53	15.75	0.57
M1.1	2732.66	T10	11.73	38.2	38.94	38.91	39.2	0.022504	2.26	5.19	8.91	0.95
M1.1	2722.865	T10	11.73	38	38.76	38.69	38.99	0.018034	2.13	5.51	8.66	0.85
M1.1	2712.499	T10	11.73	37.9	38.6		38.8	0.01679	2	5.86	9.76	0.83
M1.1	2702.724	T10	11.73	37.8	38.45		38.63	0.017627	1.87	6.28	12.3	0.83
M1.1	2697.476	T10	11.73	37.7	38.38		38.53	0.015941	1.74	6.73	13.48	0.79
M1.1	2692.444	T10	11.73	37.6	38.32		38.45	0.01404	1.6	7.34	15.76	0.74
M1.1	2682.707	T10	11.73	37.5	38.13	38.05	38.29	0.01769	1.81	6.48	13.24	0.83
M1.1	2673.088	T10	11.73	37.4	37.96		38.13	0.016661	1.8	6.53	12.85	0.8
M1.1	2662.723	T10	11.73	37.3	37.96		38.01	0.004329	1.03	11.34	18.77	0.42
M1.1	2653.331	T10	11.73	37.2	37.89		37.96	0.006779	1.19	9.82	18.48	0.52
M1.1	2642.493	T10	11.73	37.1	37.78		37.88	0.008446	1.39	8.45	14.88	0.59
M1.1	2632.005	T10	11.73	37	37.58		37.74	0.018526	1.82	6.46	13.66	0.84
M1.1	2622.006	T10	11.73	36.9	37.56		37.63	0.004893	1.1	10.65	17.16	0.45
M1.1	2612.999	T10	11.73	36.8	37.48		37.57	0.008482	1.34	8.78	16.46	0.58
M1.1	2603.182	T10	11.73	36.7	37.4		37.49	0.00775	1.3	9.04	16.57	0.56
M1.1	2594.222	T10	11.73	36.6	37.29		37.4	0.01198	1.44	8.15	18.35	0.68
M1.1	2581.947	T10	11.73	36.5	37.17		37.26	0.009616	1.33	8.81	18.17	0.61
M1.1	2572.639	T10	11.73	36.4	37.13		37.19	0.005144	1.07	10.98	20.4	0.46
M1.1	2563.037	T10	11.73	36.3	37.03		37.12	0.010359	1.32	8.89	20.5	0.63
M1.1	2552.327	T10	11.73	36.2	36.99		37.04	0.004085	0.98	13.25	30.68	0.41
M1.1	2542.687	T10	11.73	36.1	36.9		36.98	0.007285	1.26	9.55	20.07	0.55
M1.1	2532.698	T10	11.73	36	36.63	36.63	36.84	0.027214	2.04	5.74	13.68	1.01

HEC-RAS Plan: Plan 01 River: M1 Reach: M1.1 Profile: T10

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
M1.1	2523.033	T10	11.73	35.8	36.42	36.38	36.59	0.020202	1.8	6.56	16.17	0.87
M1.1	2513.232	T10	11.73	35.6	36.26		36.39	0.017397	1.61	7.29	17.53	0.8
M1.1	2502.594	T10	11.73	35.4	36.12		36.25	0.010857	1.59	7.37	12.2	0.65
M1.1	2492.368	T10	11.73	35.2	36.03		36.15	0.008241	1.58	7.44	9.99	0.58
M1.1	2482.542	T10	11.73	35	35.7	35.7	36	0.027018	2.42	4.84	8.19	1.01
M1.1	2471.76	T10	11.73	34.8	35.69	35.32	35.77	0.004563	1.27	9.26	10.98	0.44
M1.1	2461.926	T10	11.73	34.6	35.4		35.67	0.018637	2.3	5.11	6.78	0.84
M1.1	2451.778	T10	11.73	34.4	35.27		35.49	0.014655	2.06	5.7	7.76	0.77
M1.1	2442.596	T10	11.73	34.2	35.23		35.36	0.008599	1.6	7.31	10.29	0.61
M1.1	2432.418	T10	11.73	34	35.24		35.29	0.002715	0.97	12.14	20.92	0.35
M1.1	2421.842	T10	11.73	33.9	35.25		35.27	0.000902	0.69	17.72	19.71	0.21
M1.1	2412.756	T10	11.73	33.8	35.24		35.26	0.00065	0.62	20.69	24	0.18
M1.1	2402.823	T10	11.73	33.7	35.24		35.25	0.000445	0.55	25.14	33.78	0.15
M1.1	2391.973	T10	11.73	33.6	35.23		35.25	0.000498	0.56	24.06	35.67	0.16
M1.1	2382.314	T10	11.73	33.5	35.22		35.24	0.00072	0.63	18.67	18.14	0.19
M1.1	2372.971	T10	11.73	33.4	35.22		35.24	0.000522	0.53	22.34	22.7	0.16
M1.1	2362.691	T10	11.73	33.3	35.22		35.23	0.000137	0.34	35.84	28.93	0.09
M1.1	2351.7	T10	11.73	33.2	35.23	33.57	35.23	0.000059	0.24	50.67	36.77	0.06
M1.1	2350		Culvert									
M1.1	2324.139	T10	11.73	33	33.5	33.47	33.7	0.022109	1.98	5.93	12.27	0.91
M1.1	2310.999	T10	11.73	32.8	33.49		33.59	0.009488	1.42	8.25	15.07	0.61
M1.1	2302.743	T10	11.73	32.6	33.19	33.19	33.45	0.026291	2.27	5.16	9.92	1.01
M1.1	2283.075	T10	11.73	32.4	32.84	32.9	33.1	0.046783	2.25	5.21	16.24	1.27
M1.1	2272.322	T10	11.73	32.2	32.7	32.64	32.81	0.0161	1.43	8.18	22.79	0.76
M1.1	2261.596	T10	11.73	32	32.58		32.67	0.010223	1.34	9.65	28.18	0.63
M1.1	2251.821	T10	11.73	31.8	32.41		32.54	0.015036	1.63	7.65	20.6	0.76
M1.1	2241.291	T10	11.73	31.6	32.19		32.36	0.019839	1.8	6.5	14.72	0.87
M1.1	2231.333	T10	11.73	31.4	32.02		32.18	0.016117	1.78	6.6	12.99	0.8
M1.1	2222.375	T10	11.73	31.2	32		32.08	0.005349	1.27	9.21	12.82	0.48
M1.1	2211.831	T10	11.73	31	31.67	31.67	31.95	0.025805	2.36	4.97	8.86	1.01
M1.1	2201.761	T10	11.73	30.8	31.57	31.27	31.63	0.004916	1.13	10.42	16.69	0.45
M1.1	2161.506	T10	11.73	30.6	31.36		31.54	0.015695	1.88	6.24	10.97	0.79
M1.1	2151.341	T10	11.73	30.4	31.12	31.12	31.33	0.027548	2.03	5.79	14.08	1.01
M1.1	2141.82	T10	11.73	30.2	30.79	30.63	30.85	0.007428	1.16	10.53	26.61	0.54
M1.1	2131.872	T10	11.73	30	30.8		30.81	0.001238	0.59	24	55.64	0.23
M1.1	2121.333	T10	11.73	29.8	30.79		30.8	0.001161	0.62	22.46	46.25	0.23
M1.1	2111.577	T10	11.73	29.6	30.76		30.79	0.001723	0.77	16.16	29.72	0.28
M1.1	2102.159	T10	11.73	29.35	30.67		30.75	0.005954	1.27	9.26	14.05	0.5
M1.1	2091.793	T10	11.73	29.3	30.64		30.71	0.003255	1.34	12.38	26.01	0.39
M1.1	2081.509	T10	11.73	29.25	30.6		30.67	0.003356	1.24	11.31	24.15	0.4
M1.1	2061.651	T10	11.73	29.2	30.6		30.64	0.001972	0.96	16.49	28.68	0.29
M1.1	2052.211	T10	11.73	29.15	30.59		30.62	0.001167	0.76	18.53	28.84	0.24
M1.1	2042.666	T10	11.73	29.1	30.59		30.61	0.000656	0.57	26.23	46.81	0.18
M1.1	2031.74	T10	11.73	29.05	30.59		30.6	0.000371	0.49	41.51	100	0.14
M1.1	2021.425	T10	11.73	29	30.59		30.6	0.000127	0.31	69.19	156.43	0.08

HEC-RAS Plan: Plan 01 River: M1 Reach: M1.1 Profile: T10

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
M1.1	2012.765	T10	11.73	28.95	30.59		30.6	0.000113	0.3	50.43	65.91	0.08
M1.1	1992.014	T10	11.73	28.9	30.59		30.59	0.00012	0.3	49.72	62.69	0.08
M1.1	1981.821	T10	11.73	28.85	30.59		30.59	0.000063	0.22	71.62	93.18	0.06
M1.1	1972.156	T10	11.73	28.8	30.59		30.59	0.000064	0.24	60.02	59.86	0.06
M1.1	1961.863	T10	11.73	28.75	30.59		30.59	0.000035	0.18	82.69	85.55	0.05
M1.1	1951.905	T10	11.73	28.7	30.59		30.59	0.000079	0.25	53.03	55.54	0.07
M1.1	1942.167	T10	11.73	28.65	30.59		30.59	0.000061	0.18	66.82	66.38	0.06
M1.1	1931.978	T10	11.73	28.6	30.51		30.58	0.002454	1.18	9.96	7.23	0.32
M1.1	1922.011	T10	11.73	28.55	29.99	29.99	30.48	0.030533	3.1	3.79	3.89	1
M1.1	1911.271	T10	11.73	28.5	30.12	29.43	30.19	0.002758	1.19	9.86	8.36	0.35
M1.1	1901.997	T10	11.73	28.45	30.15		30.16	0.000499	0.58	20.33	14.54	0.16
M1.1	1892.401	T10	11.73	28.4	30.15		30.16	0.000192	0.38	42.94	67.82	0.1
M1.1	1882.227	T10	11.73	28.35	30.14	29.25	30.15	0.000952	0.51	24.66	45.31	0.2
M1.1	1871.896	T10	11.73	28.3	29.61	29.61	30.08	0.03039	3.03	3.88	4.21	1.01
M1.1	1862.094	T10	11.73	28.25	29.26	28.94	29.27	0.001064	0.49	30.31	99.63	0.21
M1.1	1851.598	T10	11.73	28.2	29.24		29.26	0.001297	0.6	20.1	34.73	0.24
M1.1	1842.262	T10	11.73	28.1	29.19		29.23	0.007302	0.94	14.19	59.69	0.5
M1.1	1831.971	T10	11.73	28	28.99	28.99	29.09	0.032073	1.41	8.93	53.24	0.96
M1.1	1822.473	T10	11.73	27.85	28.74	28.58	28.88	0.011801	1.63	7.34	21.02	0.69
M1.1	1811.844	T10	11.73	27.7	28.72		28.78	0.004547	1.07	10.93	17.85	0.44
M1.1	1801.644	T10	11.73	27.6	28.67		28.73	0.004906	1.11	10.54	17.28	0.45
M1.1	1792.249	T10	11.73	27.5	28.59		28.67	0.006817	1.32	8.92	14.51	0.54
M1.1	1781.618	T10	11.73	27.4	28.34	28.28	28.55	0.018956	2.02	5.8	10.6	0.87
M1.1	1732.378	T10	11.73	27.1	28.43		28.47	0.00118	0.81	14.46	11.36	0.23
M1.1	1722.173	T10	11.73	27	28.32		28.44	0.005277	1.5	7.83	7.86	0.48
M1.1	1712.794	T10	11.73	26.85	28.38		28.4	0.0006	0.66	22.36	28.98	0.18
M1.1	1702.199	T10	11.73	26.7	28.38	27.74	28.39	0.000712	0.51	24.3	33.09	0.18
M1.1	1700		Culvert									
M1.1	1672.633	T10	11.73	26.5	27.17		27.24	0.010869	1.17	10.06	28.09	0.62
M1.1	1651.928	T10	11.73	26.1	27.21		27.21	0.000312	0.38	32.92	42.29	0.12
M1.1	1641.896	T10	11.73	25.9	27.18	26.42	27.21	0.001109	0.7	16.65	17.16	0.23
M1.1	1640		Culvert									
M1.1	1553.866	T10	11.73	24.7	25.4		25.51	0.008296	1.44	8.14	13.12	0.58
M1.1	1540.87	T10	11.73	24.4	25.12	25.12	25.32	0.028057	2	5.86	14.53	1.01
M1.1	1531.655	T10	11.73	24.1	24.28	24.41	24.75	0.196796	3.02	3.88	22.77	2.34
M1.1	1514.895	T10	11.73	23.8	24.04	24	24.11	0.019057	1.18	9.91	40.99	0.77
M1.1	1502.812	T10	11.73	23.5	23.71	23.71	23.81	0.033962	1.42	8.29	40.7	1
M1.1	1483.101	T10	11.73	23.2	23.41	23.35	23.45	0.010393	0.81	14.48	67.45	0.56
M1.1	1461.05	T10	11.73	22.9	23.24		23.3	0.010973	1.09	10.77	33.54	0.61
M1.1	1442.689	T10	11.73	22.6	22.96	22.96	23.12	0.02909	1.81	6.49	19.54	1
M1.1	1402.347	T10	11.73	22.2	23.02	22.5	23.04	0.001037	0.59	19.93	26.34	0.22
M1.1	1381.269	T10	11.73	22	22.74	22.7	22.99	0.021468	2.19	5.34	9.04	0.91
M1.1	1360.404	T10	11.73	21.9	22.48	22.48	22.7	0.0273	2.05	5.73	13.55	1
M1.1	1343.888	T10	11.73	21.8	21.93	22.02	22.24	0.179252	2.44	4.81	36.45	2.14
M1.1	1320.496	T10	11.73	21.6	22.01	21.71	22.02	0.00054	0.28	41.78	104.13	0.14

HEC-RAS Plan: Plan 01 River: M1 Reach: M1.1 Profile: T10

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
M1.1	1287.82	T10	11.73	21.4	22.01		22.02	0.000093	0.15	80.61	143.76	0.06
M1.1	1283.234	T10	11.73	21.2	22.01		22.02	0.00003	0.1	118.21	158.7	0.04
M1.1	1274.97	T10	11.73	21	22.01		22.02	0.000049	0.11	103.17	164.02	0.05
M1.1	1264.063	T10	11.73	20.8	22.01		22.01	0.00001	0.08	156.68	144.48	0.02
M1.1	1244.591	T10	11.73	20.7	22.01		22.01	0.000009	0.08	159.94	159.32	0.02
M1.1	1233.829	T10	11.73	20.6	22.01		22.01	0.000009	0.08	156.37	148.27	0.02
M1.1	1222.552	T10	11.73	20.2	22.01		22.01	0.000006	0.08	175.22	156.71	0.02
M1.1	1209.331	T10	11.73	20.1	22.01		22.01	0.000007	0.08	160.33	134.5	0.02
M1.1	1183.459	T10	11.73	20	21.56	21.56	21.97	0.027135	2.85	4.12	5.01	1
M1.1	1172.786	T10	11.73	19.9	20.98	20.53	21.07	0.004404	1.32	8.89	9.4	0.43
M1.1	1161.379	T10	11.73	19.8	21.03		21.04	0.000419	0.33	35.55	57.26	0.13
M1.1	1142.871	T10	11.73	19.7	21.03		21.03	0.00033	0.39	37.28	63.94	0.13
M1.1	1132.302	T10	11.73	19.6	21.02		21.03	0.000257	0.38	38.97	62.71	0.12
M1.1	1124.376	T10	11.73	19.5	21.02		21.03	0.000159	0.3	41.5	50.67	0.09
M1.1	1113.297	T10	11.73	19.4	21.02		21.03	0.00006	0.22	53.84	41.89	0.06
M1.1	1098.059	T10	11.73	19.3	20.9		21.01	0.007059	1.51	7.76	9.67	0.54
M1.1	1089.744	T10	11.73	19.2	20.55	20.55	20.89	0.025502	2.59	4.54	6.72	1
M1.1	1062.797	T10	11.73	19.1	20.04	19.31	20.04	0.000215	0.3	39.28	44.1	0.1
M1.1	1052.499	T10	11.73	19	19.96		20.03	0.008422	1.18	9.96	22.54	0.57
M1.1	1043.086	T10	11.73	18.9	19.68	19.68	19.88	0.027206	2	5.87	14.44	1
M1.1	1032.8	T10	11.73	18.6	19.31	19.05	19.36	0.005219	1.02	11.51	22.4	0.45
M1.1	1023.849	T10	11.73	18.4	19.3		19.33	0.001751	0.73	16.04	22.62	0.28
M1.1	1012.25	T10	11.73	18.2	19.29		19.31	0.000936	0.63	18.59	19.8	0.21
M1.1	999.558	T10	11.73	18.1	19.25		19.29	0.002058	0.94	12.52	13.09	0.31
M1.1	990.276	T10	11.73	18	18.89	18.89	19.22	0.025509	2.53	4.64	7.25	1.01
M1.1	981.81	T10	11.73	17.9	18.75	18.37	18.8	0.003585	1.02	11.47	16.57	0.39
M1.1	972.082	T10	11.73	17.6	18.68		18.76	0.004352	1.21	9.68	11.89	0.43
M1.1	961.725	T10	11.73	17.5	18.51		18.67	0.014177	1.79	6.57	11.21	0.74
M1.1	952.595	T10	11.73	17.4	18.47		18.57	0.006179	1.43	8.22	10.72	0.52
M1.1	940.389	T10	11.73	17.3	18.44		18.5	0.003925	1.06	11.06	16.37	0.41
M1.1	926.812	T10	11.73	17.2	18.26		18.41	0.009048	1.74	6.73	8.44	0.62
M1.1	919.919	T10	11.73	17.1	18.19		18.35	0.010613	1.72	6.8	10.07	0.67
M1.1	909.679	T10	11.73	17	18.15		18.25	0.006127	1.42	8.25	9.94	0.5
M1.1	901.426	T10	11.73	16.9	18.16		18.21	0.001879	0.9	12.98	13.57	0.29
M1.1	888.871	T10	11.73	16.79	18.12		18.18	0.002658	1.03	11.39	12.58	0.35
M1.1	880.296	T10	11.73	16.62	18.11		18.16	0.001616	0.96	12.26	9.87	0.27
M1.1	868.788	T10	11.73	16.5	17.74	17.74	18.08	0.0279	2.58	4.55	6.74	1
M1.1	851.304	T10	11.73	16.4	17.69	17.1	17.76	0.002993	1.17	10.02	9.88	0.37
M1.1	841.353	T10	11.73	16.25	17.67		17.73	0.00254	1.02	11.51	12.84	0.34
M1.1	830.599	T10	11.73	16.15	17.15	17.15	17.62	0.031244	3.04	3.86	4.15	1.01
M1.1	819.769	T10	11.73	16.05	17.25	16.67	17.31	0.002676	1.1	10.69	10.7	0.35
M1.1	812.111	T10	11.73	16	17.26		17.29	0.000719	0.63	18.54	15.59	0.19
M1.1	800.963	T10	11.73	15.9	17.26		17.28	0.00073	0.65	18.14	14.28	0.18
M1.1	791.614	T10	11.73	15.8	17.26	16.23	17.27	0.000466	0.53	22.19	17.7	0.15
M1.1	790		Culvert									

HEC-RAS Plan: Plan 01 River: M1 Reach: M1.1 Profile: T10

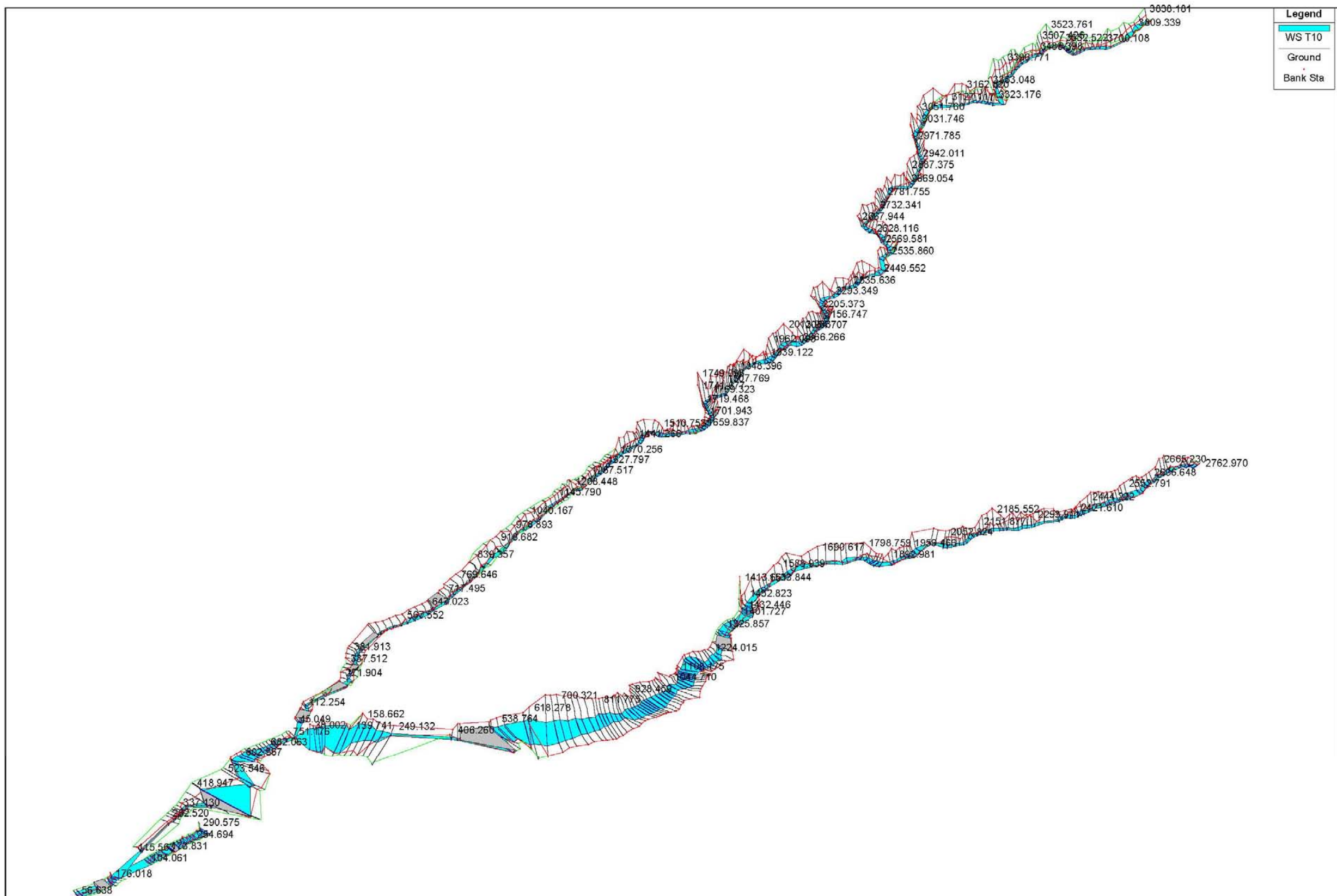
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
M1.1	770.883	T10	11.73	15	16.27		16.45	0.005222	1.84	6.36	5	0.52
M1.1	760.344	T10	11.73	14.95	16.22		16.39	0.00531	1.85	6.33	5	0.53
M1.1	752.609	T10	11.73	14.9	16.18		16.35	0.005171	1.84	6.39	5	0.52
M1.1	742.1	T10	11.73	14.85	16.12		16.29	0.005241	1.85	6.36	5	0.52
M1.1	731.877	T10	11.73	14.8	16.07		16.24	0.005304	1.85	6.33	5	0.53
M1.1	722.518	T10	11.73	14.75	16.02		16.19	0.005299	1.85	6.33	5	0.53
M1.1	712.791	T10	11.73	14.7	15.96		16.14	0.005322	1.86	6.32	5	0.53
M1.1	701.36	T10	11.73	14.65	15.96		16.08	0.003066	1.49	7.88	6	0.41
M1.1	691.207	T10	11.73	14.6	15.85		16.03	0.005524	1.88	6.24	5	0.54
M1.1	681.388	T10	11.73	14.55	15.79		15.97	0.005606	1.89	6.21	5	0.54
M1.1	672.129	T10	11.73	14.5	15.74		15.92	0.00565	1.89	6.19	5	0.54
M1.1	661	T10	11.73	14.45	15.67		15.86	0.005931	1.93	6.09	5	0.56
M1.1	650.557	T10	11.73	14.4	15.6		15.79	0.00622	1.96	5.99	5	0.57
M1.1	642.106	T10	11.73	14.35	15.54		15.74	0.006291	1.97	5.97	5	0.57
M1.1	631.603	T10	11.73	14.3	15.46		15.67	0.00675	2.01	5.82	5	0.6
M1.1	621.958	T10	11.73	14.25	15.39		15.6	0.007252	2.06	5.68	5	0.62
M1.1	612.296	T10	11.73	14.2	15.29		15.53	0.008116	2.15	5.47	5	0.65
M1.1	601.65	T10	11.73	14.15	15.13		15.42	0.011378	2.41	4.88	5	0.78
M1.1	581.969	T10	11.73	14	15.06		15.31	0.008966	2.22	5.29	5	0.69
M1.1	562.819	T10	11.73	13.9	14.95		15.21	0.009077	2.23	5.26	5	0.69
M1.1	541.59	T10	11.73	13.8	14.84		15.1	0.009406	2.26	5.2	5	0.71
M1.1	521.488	T10	11.73	13.7	14.74		15	0.009407	2.26	5.2	5	0.71
M1.1	502.951	T10	11.73	13.6	14.67		14.91	0.008709	2.2	5.34	5	0.68
M1.1	481.658	T10	11.73	13.5	14.57		14.82	0.008573	2.19	5.37	5	0.67
M1.1	462.273	T10	11.73	13.4	14.5		14.73	0.007914	2.13	5.52	5	0.65
M1.1	441.866	T10	11.73	13.3	14.44		14.65	0.007265	2.07	5.68	5	0.62
M1.1	421.826	T10	11.73	13.2	14.38		14.58	0.006526	1.99	5.89	5	0.59
M1.1	402.929	T10	11.73	13.1	14.33		14.52	0.005751	1.91	6.15	5	0.55
M1.1	383.301	T10	11.73	12.8	14.34		14.45	0.003023	1.53	7.71	7.24	0.39
M1.1	362.459	T10	11.73	12.6	14.32	13.42	14.42	0.002041	1.36	8.76	6.26	0.33
M1.1	360		Culvert									
M1.1	342.249	T10	11.73	12.58	14.18		14.29	0.002991	1.46	8.05	5.93	0.4
M1.1	333.22	T10	11.73	12.56	14.24		14.25	0.000468	0.46	25.72	30.14	0.15
M1.1	323.121	T10	11.73	12.54	14.11	14.11	14.23	0.034415	1.54	8.09	44.78	1.01
M1.1	303.809	T10	11.73	12.52	13.63	13.69	13.86	0.040798	2.22	5.79	22	1.17
M1.1	293.507	T10	11.73	12.5	13.68	13.39	13.72	0.003022	0.95	14.38	30.39	0.36
M1.1	283.724	T10	11.73	12.48	13.69		13.7	0.000417	0.46	30.83	44.22	0.14
M1.1	263.728	T10	11.73	12.46	13.67		13.69	0.001941	0.83	19.19	46.98	0.3
M1.1	243.796	T10	11.73	12.44	13.67		13.68	0.000727	0.47	31.22	71.73	0.18
M1.1	223.635	T10	11.73	12.42	13.66		13.67	0.000627	0.5	28.74	54.09	0.17
M1.1	202.786	T10	11.73	12.4	13.66		13.67	0.000204	0.28	45.97	71.99	0.1
M1.1	183.635	T10	11.73	12.38	13.66		13.66	0.000072	0.2	80.5	128.78	0.06
M1.1	171.777	T10	11.73	12.36	13.65	12.78	13.66	0.00041	0.46	26.57	29.47	0.14
M1.1	170		Culvert									
M1.1	121.599	T10	11.73	12	13.2		13.21	0.000446	0.45	25.79	26.34	0.15

HEC-RAS Plan: Plan 01 River: M1 Reach: M1.1 Profile: T10

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
M1.1	112.324	T10	11.73	11.8	13.2		13.21	0.000162	0.31	40.76	49.12	0.09
M1.1	101.683	T10	11.73	11.6	13.21		13.21	0.000017	0.11	160.77	247.68	0.03
M1.1	91.541	T10	11.73	11.5	13.2	12.05	13.21	0.000027	0.14	124.27	203.62	0.04
M1.1	91		Culvert									
M1.1	41.836	T10	11.73	11.4	12.48		12.49	0.000824	0.48	30.35	76.54	0.19
M1.1	30.855	T10	11.73	11.3	12.45		12.48	0.002634	0.8	17.28	47.28	0.33
M1.1	21.437	T10	11.73	11.2	12.23	12.23	12.41	0.021039	1.88	6.71	21.49	0.89
M1.1	11.58	T10	11.73	11.1	11.47	11.61	11.95	0.135905	3.21	4.03	22.52	2.07
M1.1	1.693	T10	11.73	11	11.64	11.56	11.72	0.010002	1.37	10.19	33.01	0.63

- 3.3.- Cuenca 3. Arroyo Trévez. T=10 años
 - 3.3.1.- Vista 3D arroyo
 - 3.3.2.- Perfil longitudinal
 - 3.3.2.1.- Arroyo Boticario
 - 3.3.2.2.- Arroyo Buenavista
 - 3.3.2.3.- Arroyo Trévez
 - 3.3.2.4.- Arroyo Carambuco
 - 3.3.3.- Perfiles transversales
 - 3.3.3.1.- Arroyo Boticario
 - 3.3.3.2.- Arroyo Buenavista
 - 3.3.3.3.- Arroyo Trévez
 - 3.3.3.4.- Arroyo Carambuco
 - 3.3.4.- Tablas de resultados
 - 3.3.4.1.- Arroyo Boticario
 - 3.3.4.2.- Arroyo Buenavista
 - 3.3.4.3.- Arroyo Trévez
 - 3.3.4.4.- Arroyo Calambuco

3.3.1.- Vista 3D arroyo



DETERMINACION DE LOS LIMITES DEL DOMUNIO PUBLICO HIDRAULICO Y LAS ZONAS INUNDABLES EN LAS CUENCAS DEL ARROYO DE LAS CAÑAS Y ZONA TREVENEZ-BUENAVISTA, EN LOS DESARROLLOS PREVISTOS POR EL P.G.O.U. EN REVISION

3.3.2.- Perfil longitudinal

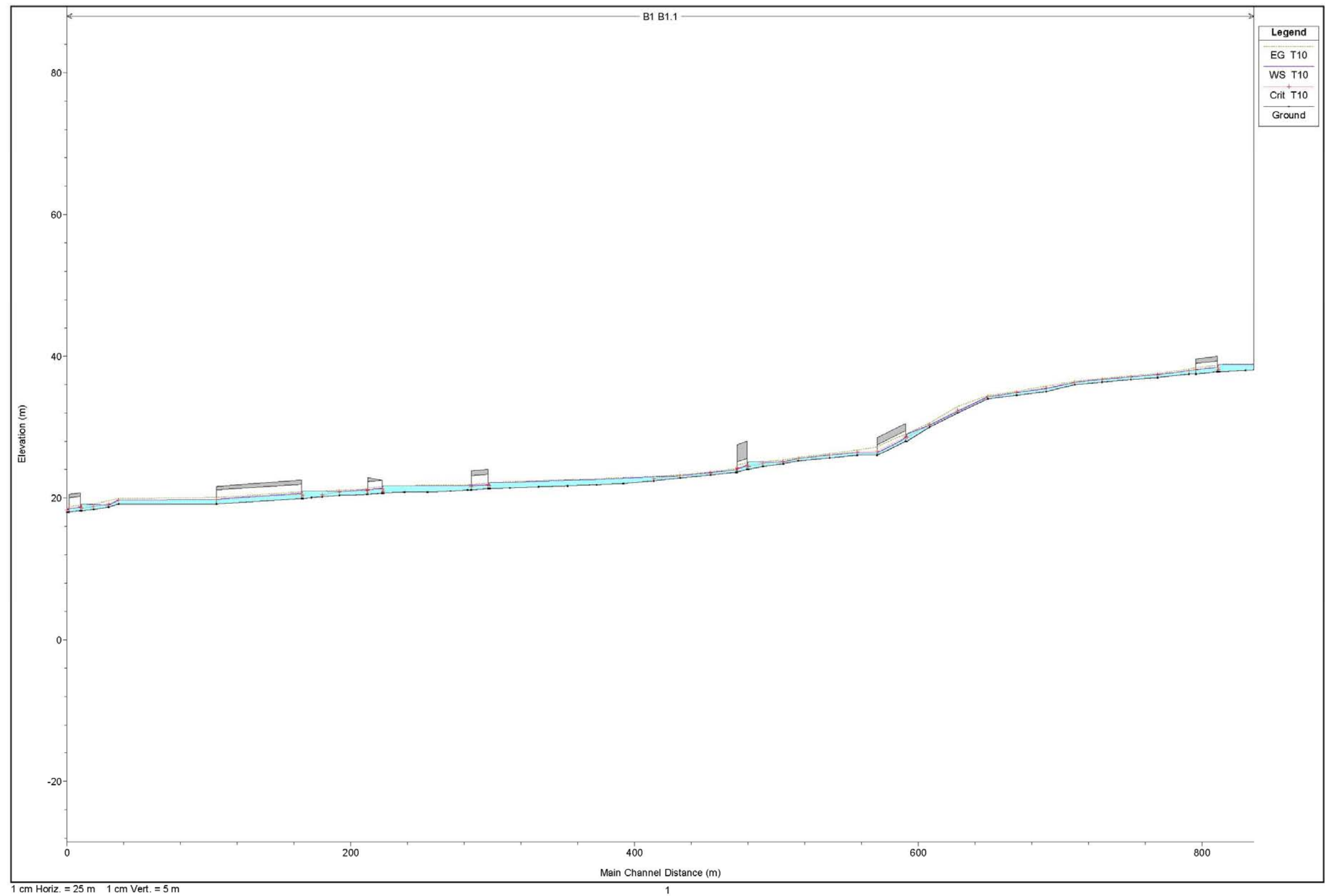
3.3.2.1.- Arroyo Boticario

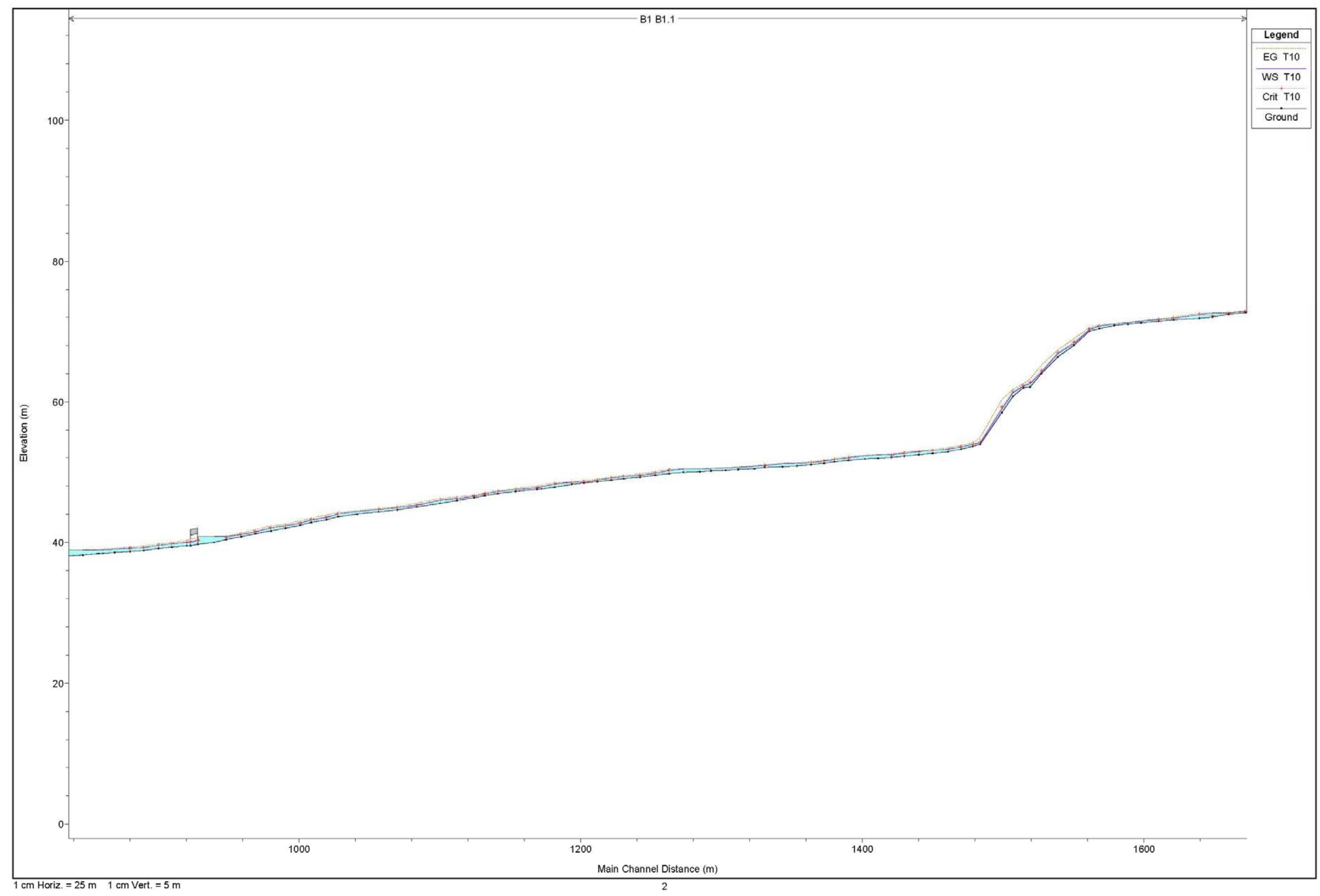
3.3.2.2.- Arroyo Buenavista

3.3.2.3.- Arroyo Trévez

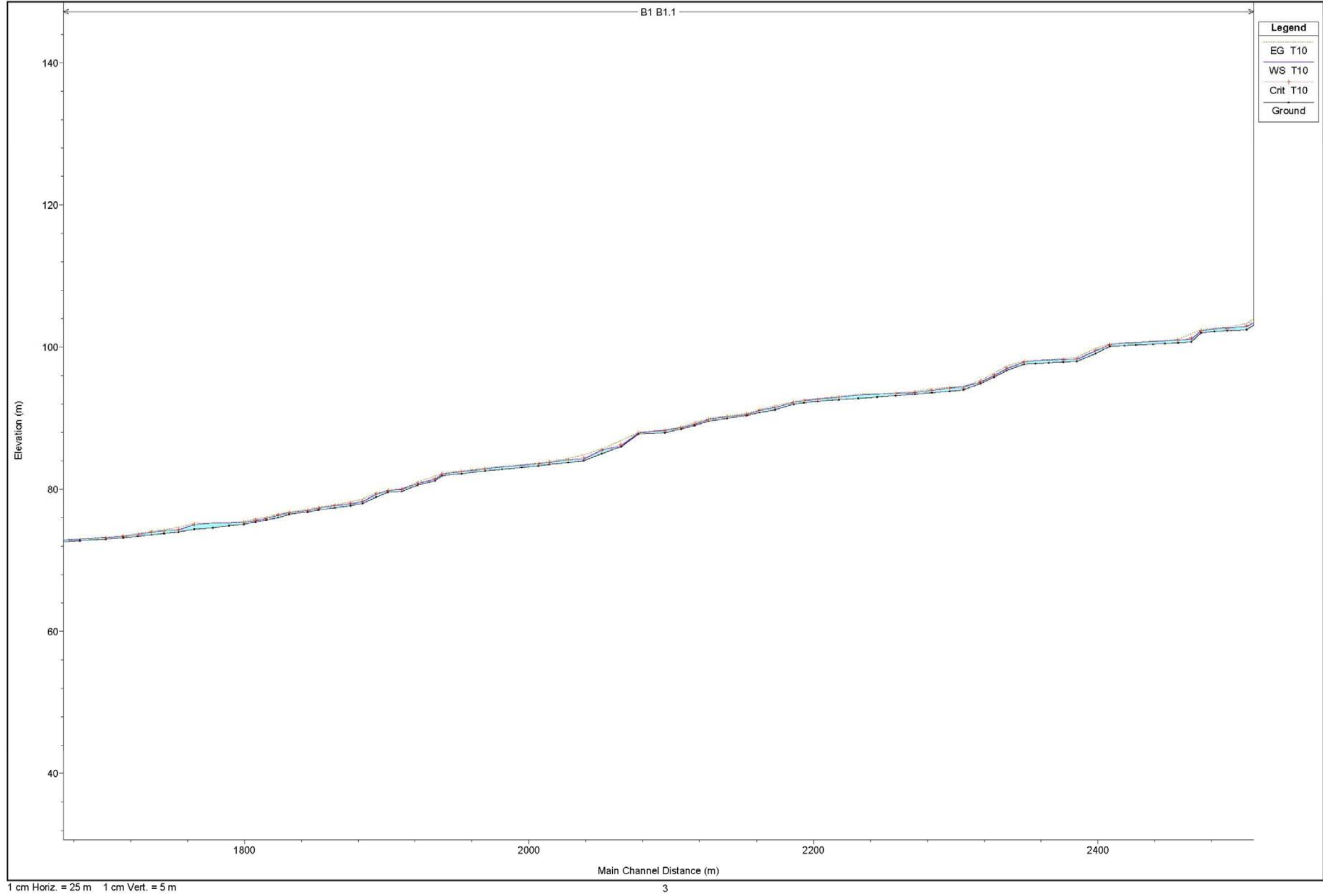
3.3.2.4.- Arroyo Calambuco

3.3.2.1.- Arroyo Boticario

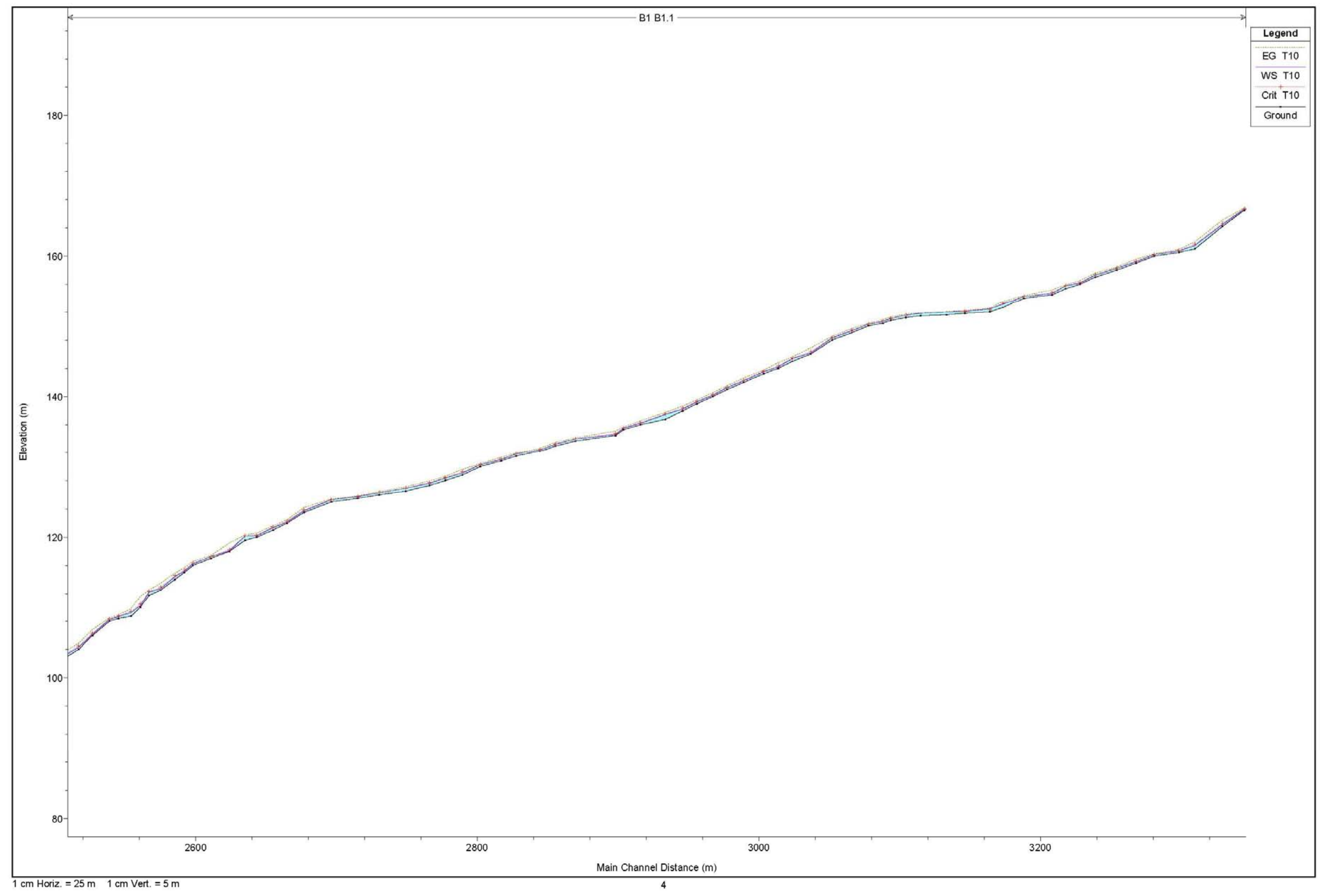




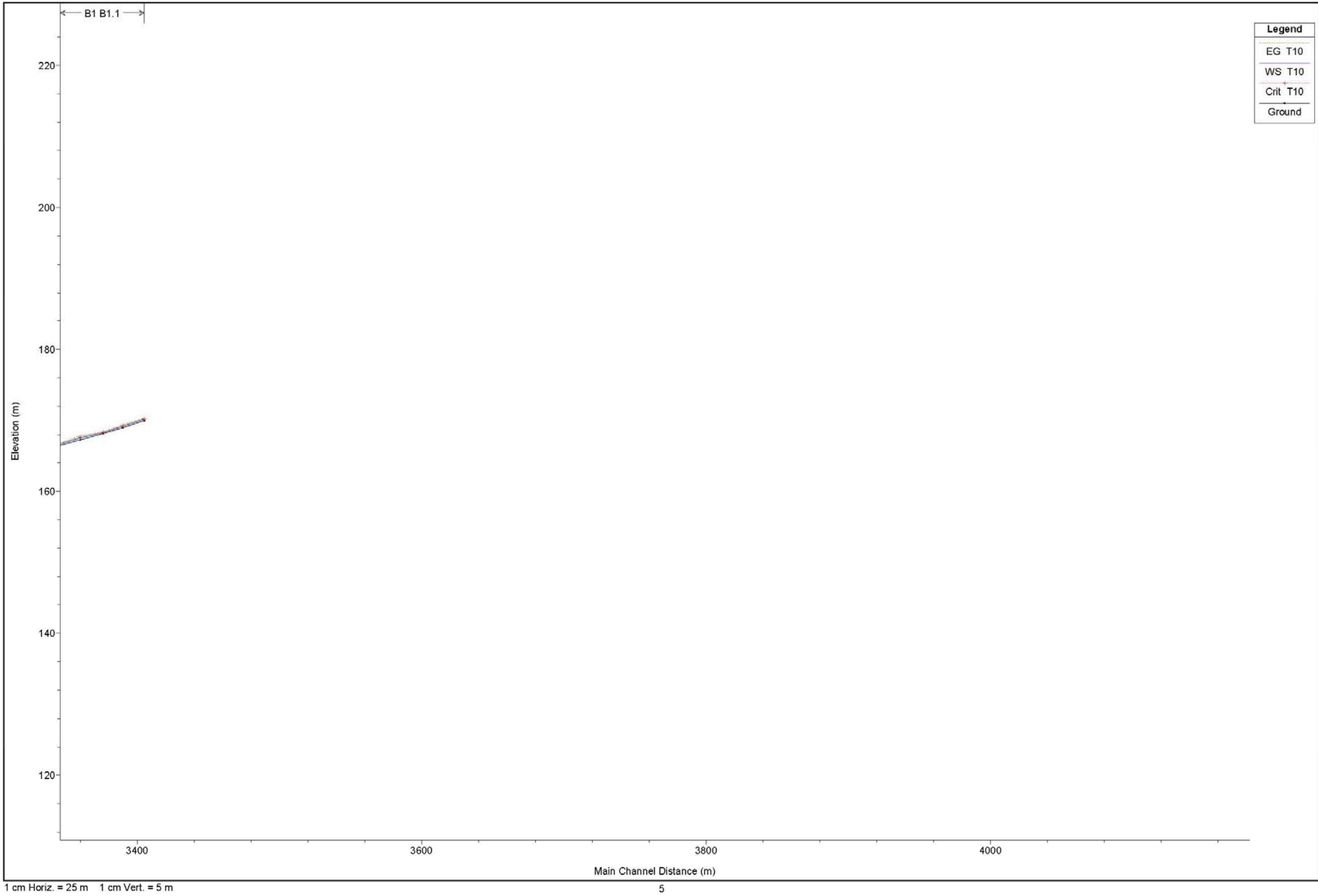
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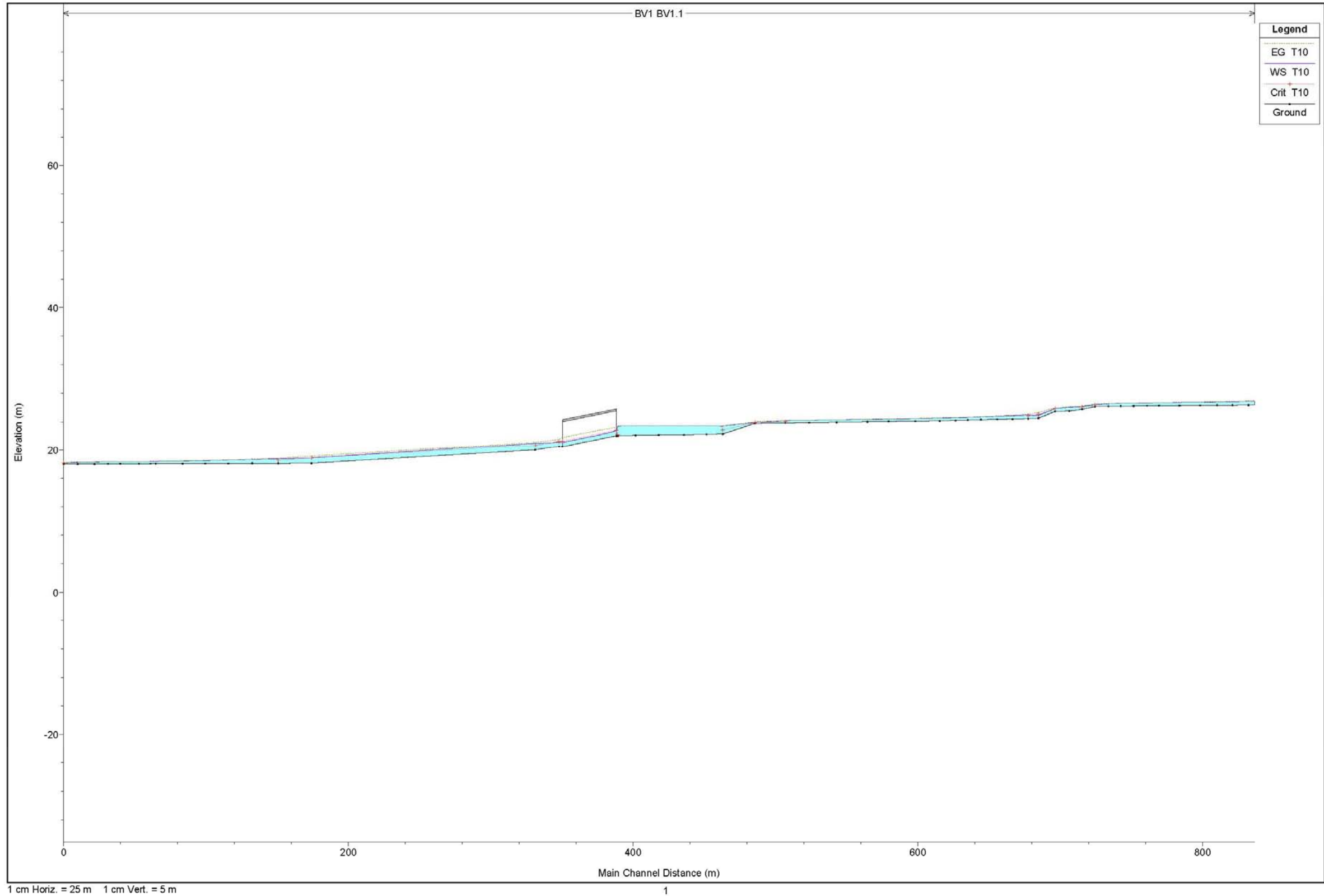
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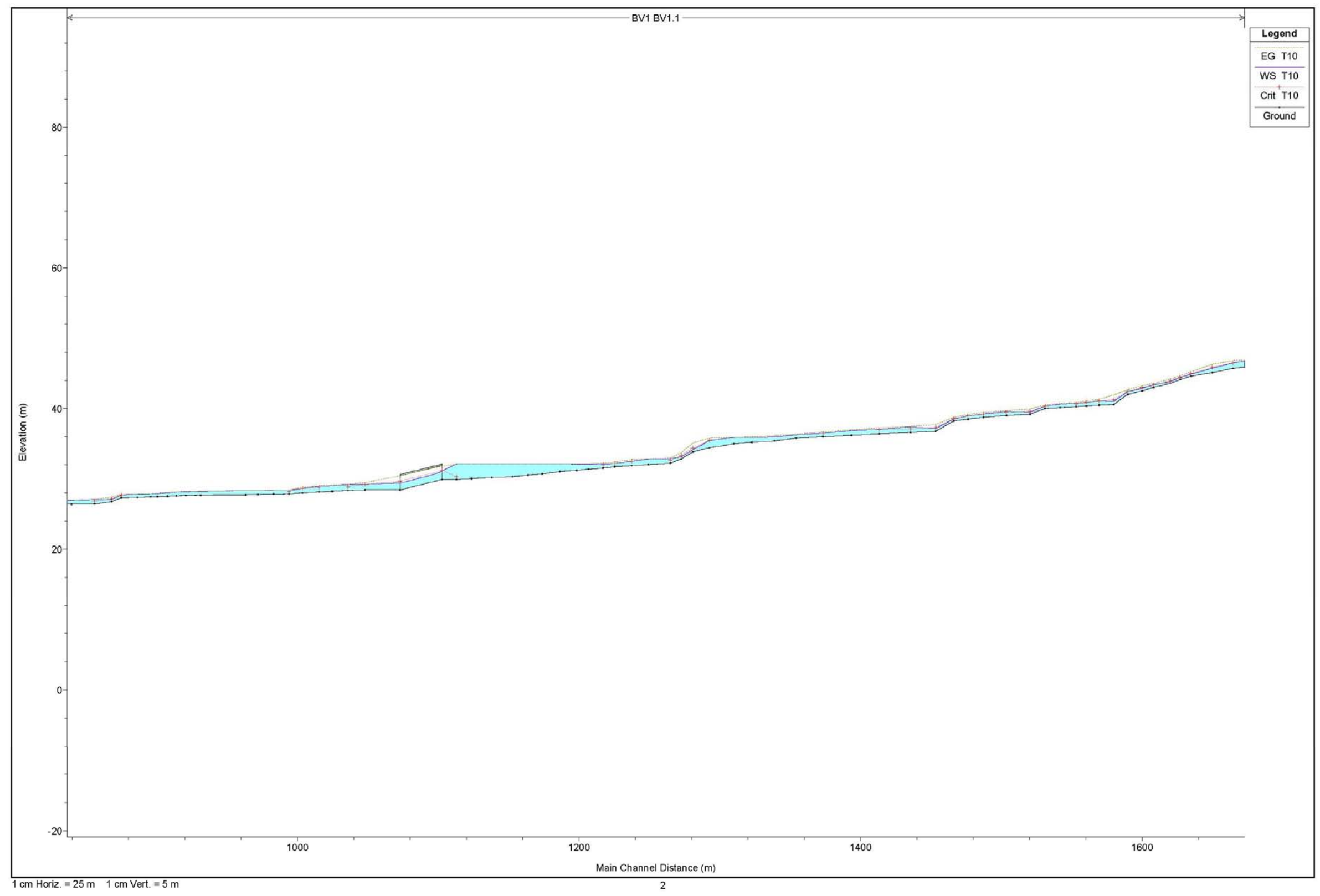
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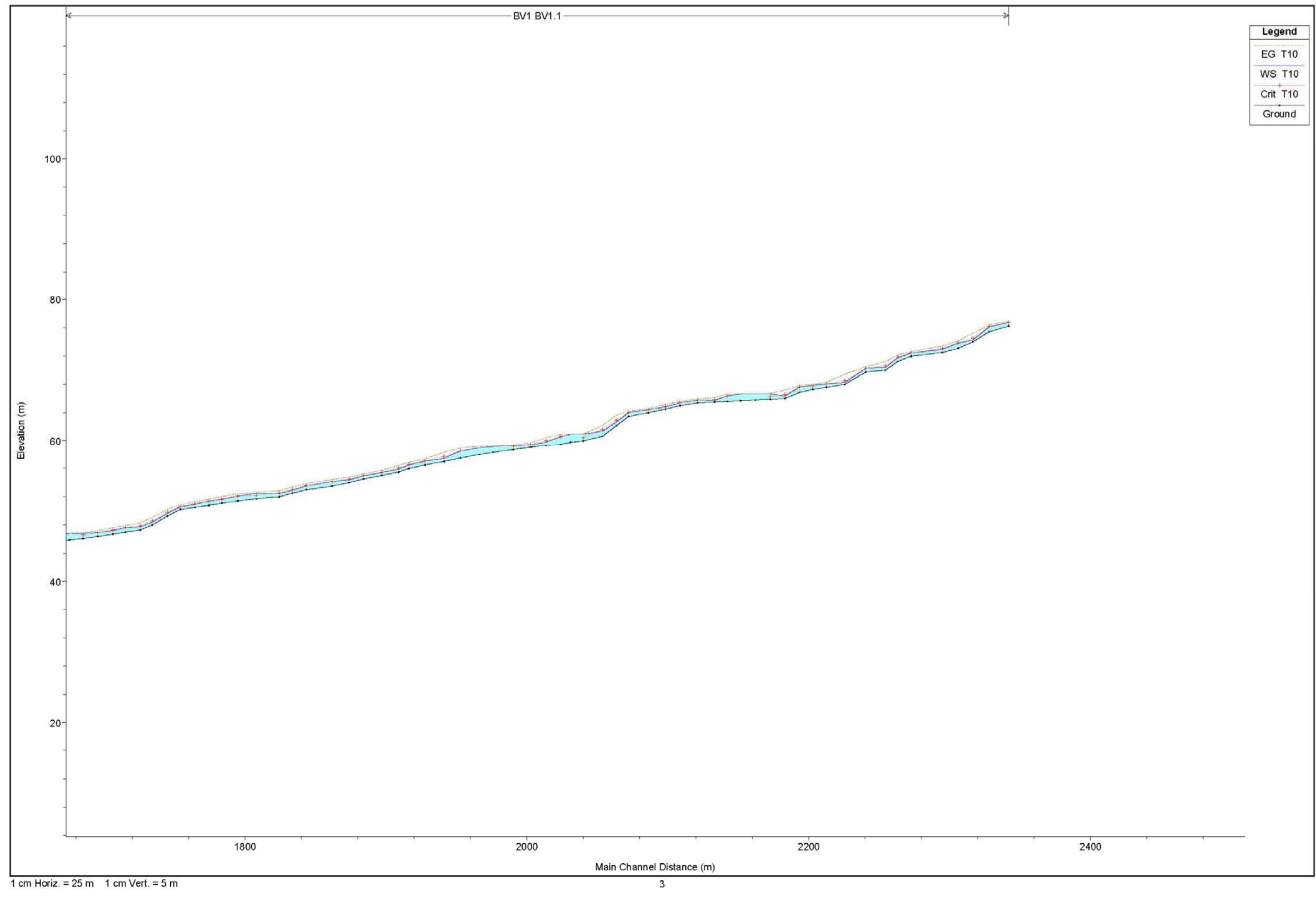
3.3.2.2.- Arroyo Buenavista



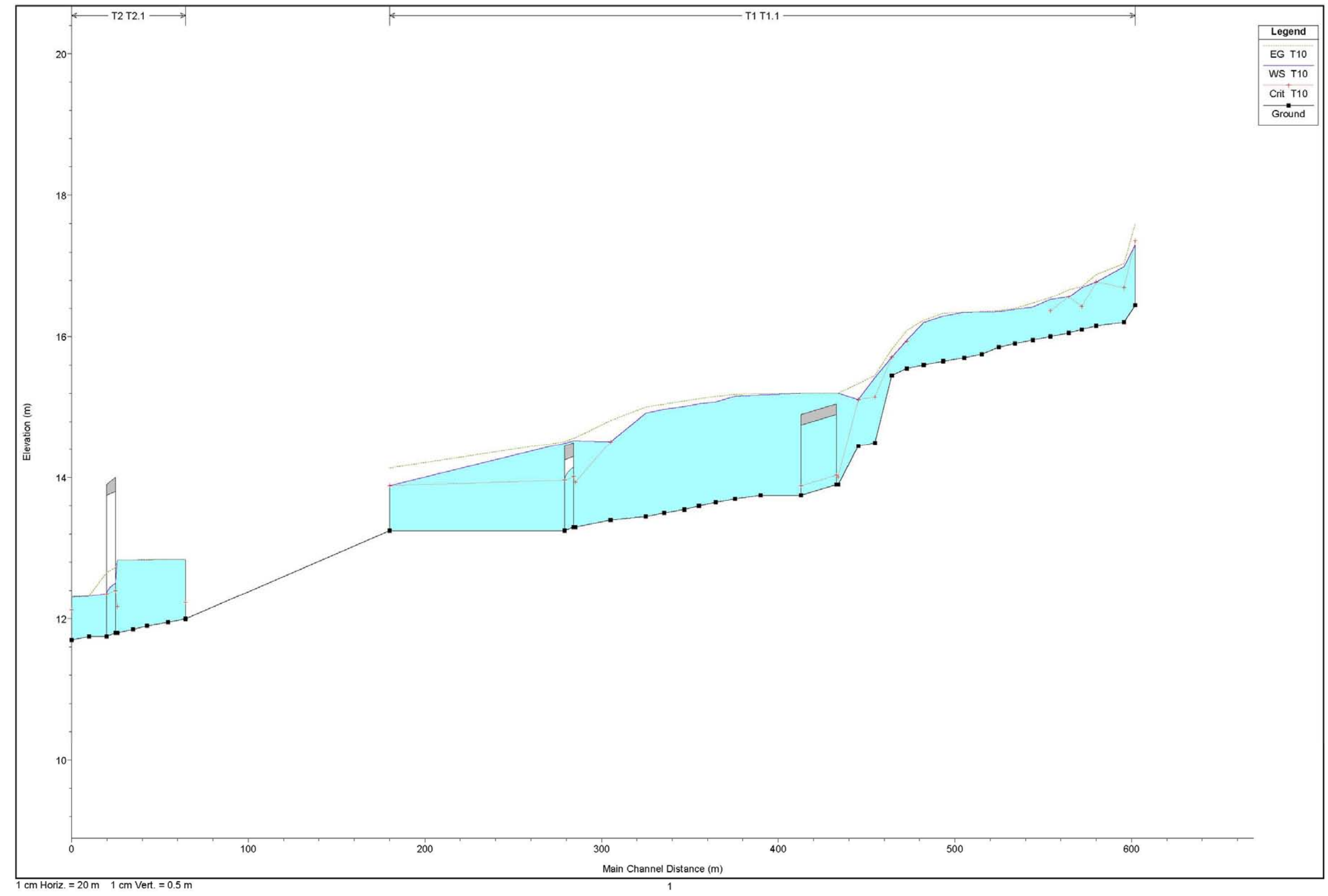
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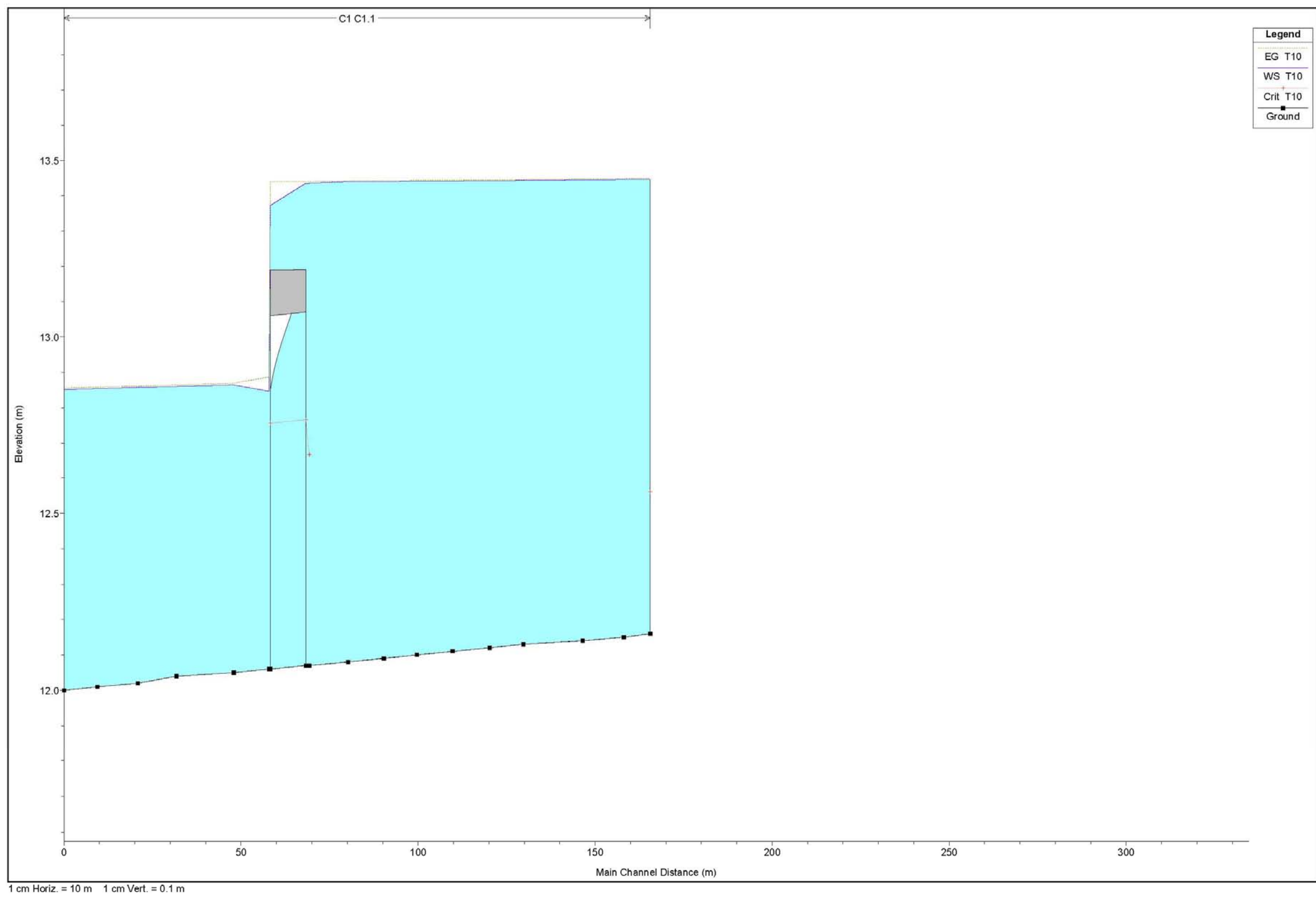


3.3.2.3.- Arroyo Trévez



DETERMINACION DE LOS LIMITES DEL DOMUNIO PUBLICO HIDRAULICO Y LAS ZONAS INUNDABLES EN LAS CUENCAS DEL ARROYO DE LAS CAÑAS Y ZONA TREVENEZ-BUENAVISTA, EN LOS DESARROLLOS PREVISTOS POR EL P.G.O.U. EN REVISION

3.3.2.4.- Arroyo Carambuco



3.3.3.- Perfiles transversales

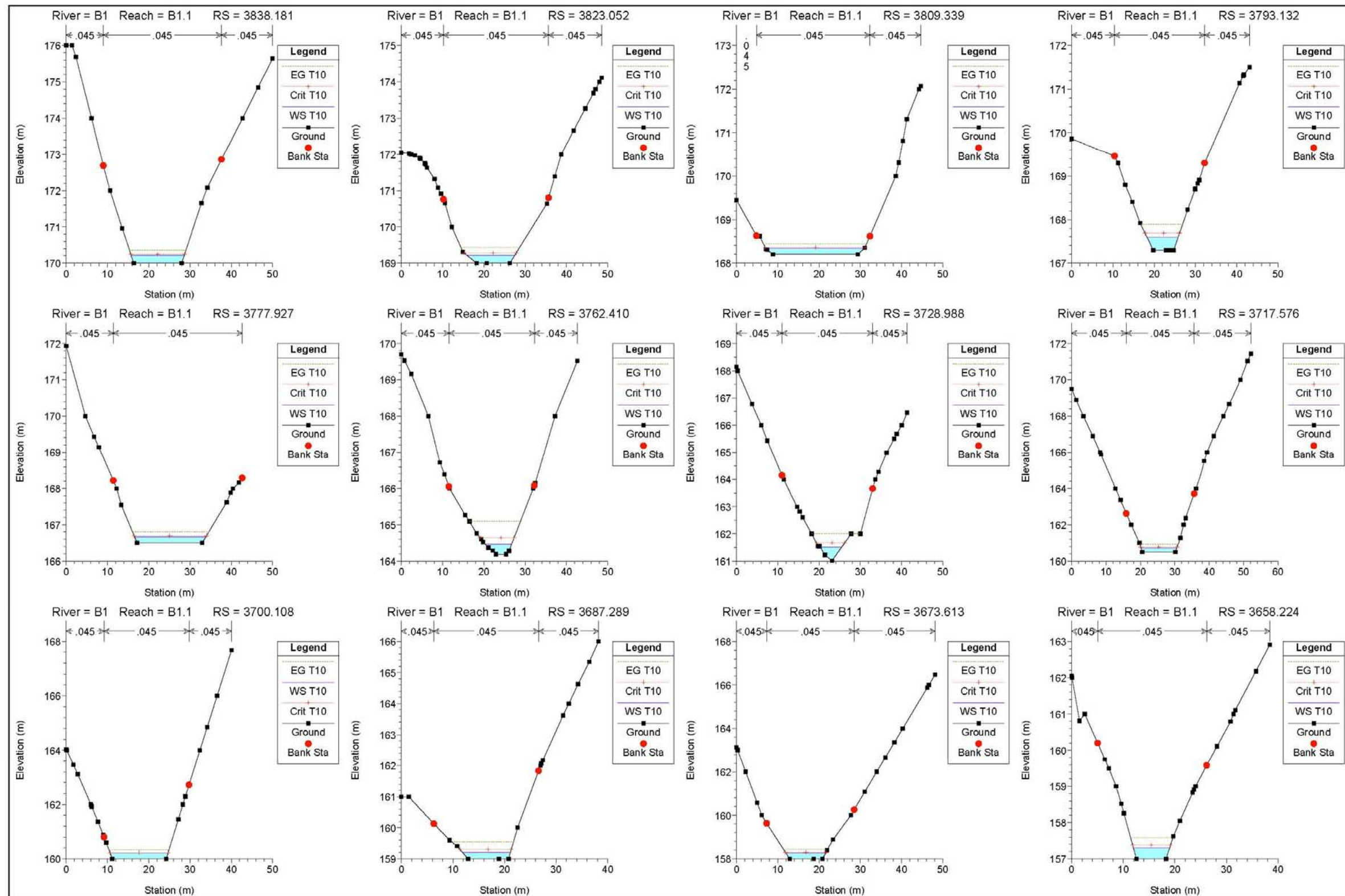
3.3.3.1.- Arroyo Boticario

3.3.3.2.- Arroyo Buenavista

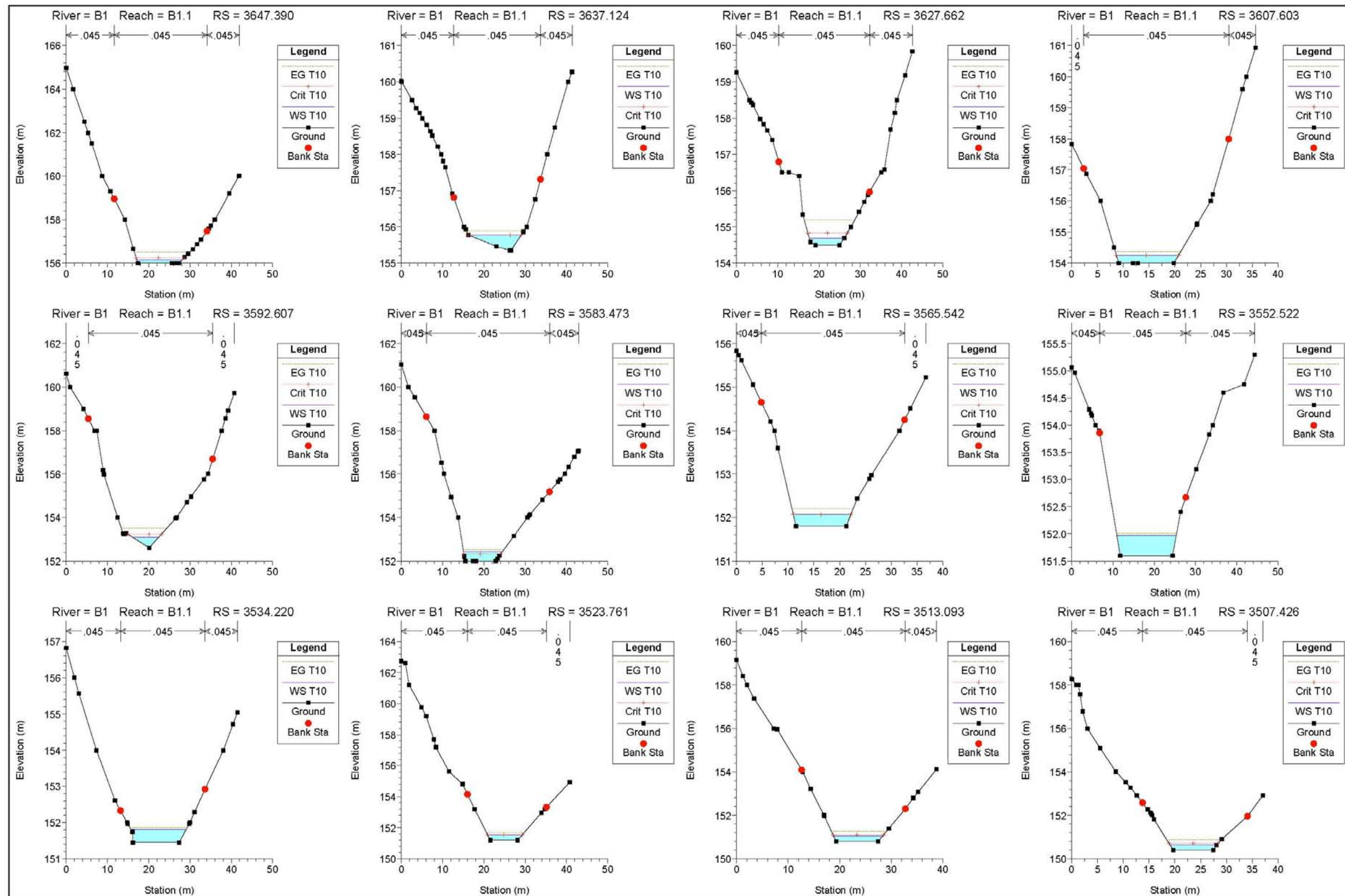
3.3.3.3.- Arroyo Trévez

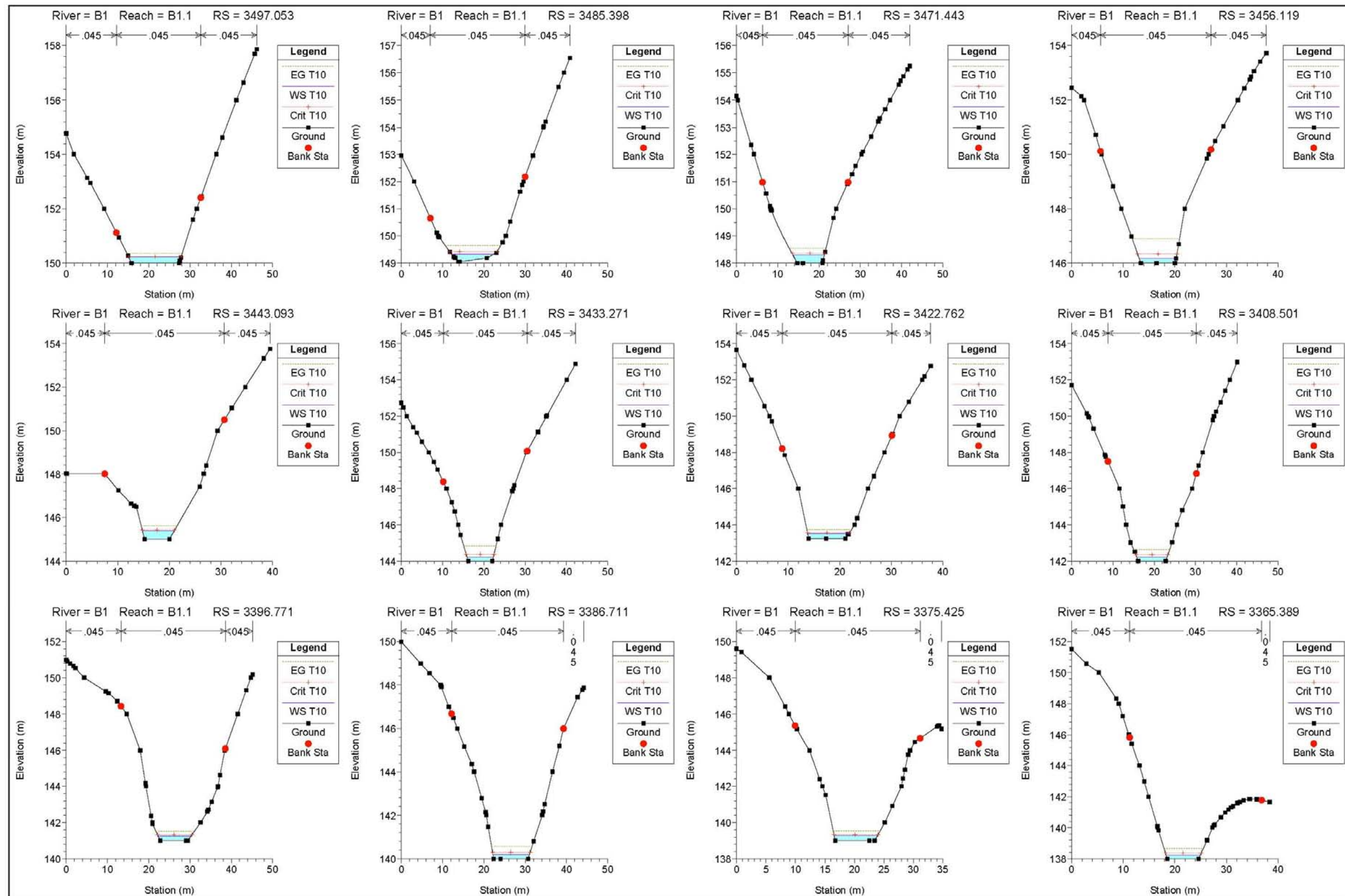
3.3.3.4.- Arroyo Calambuco

3.3.3.1.- Arroyo Boticario

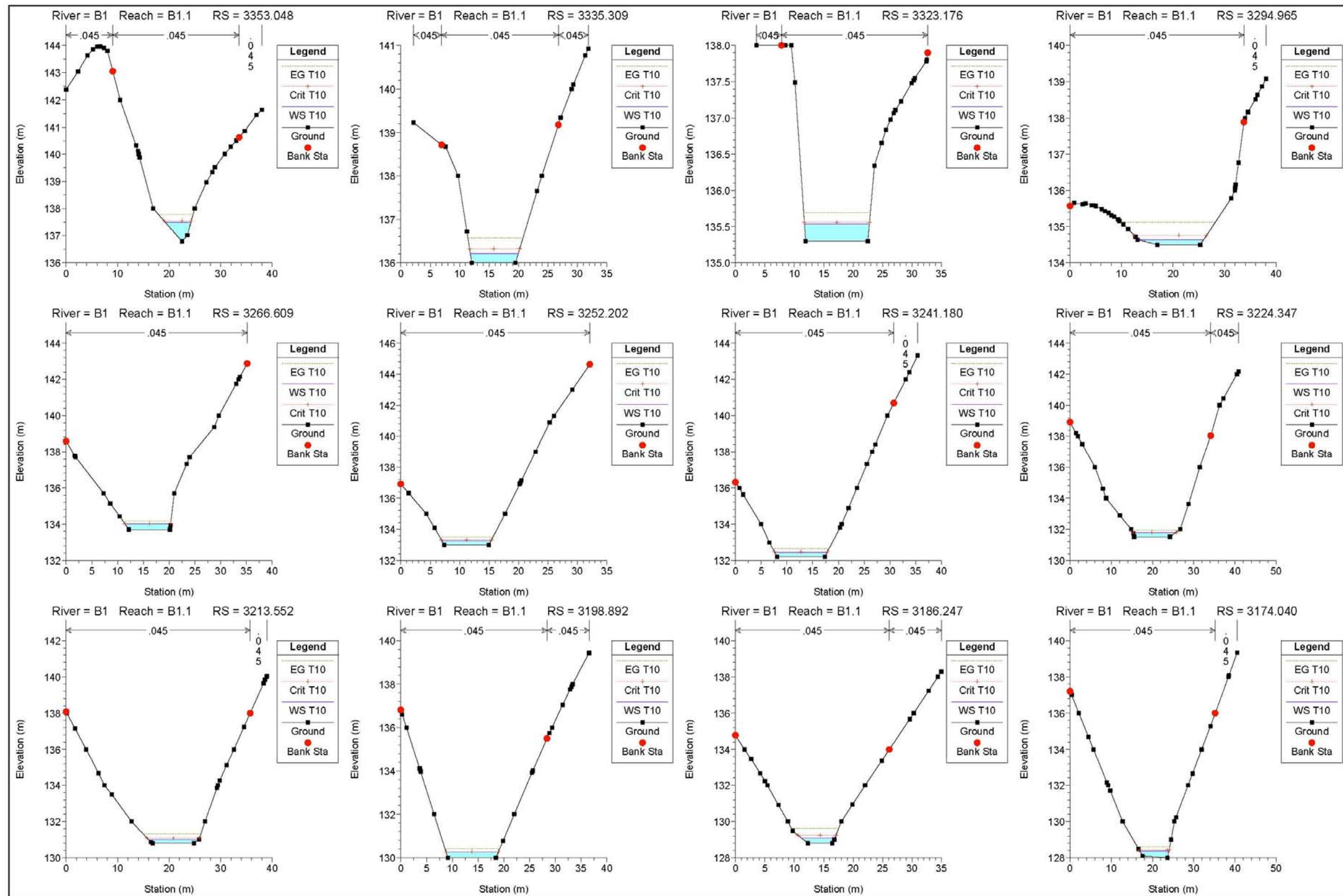


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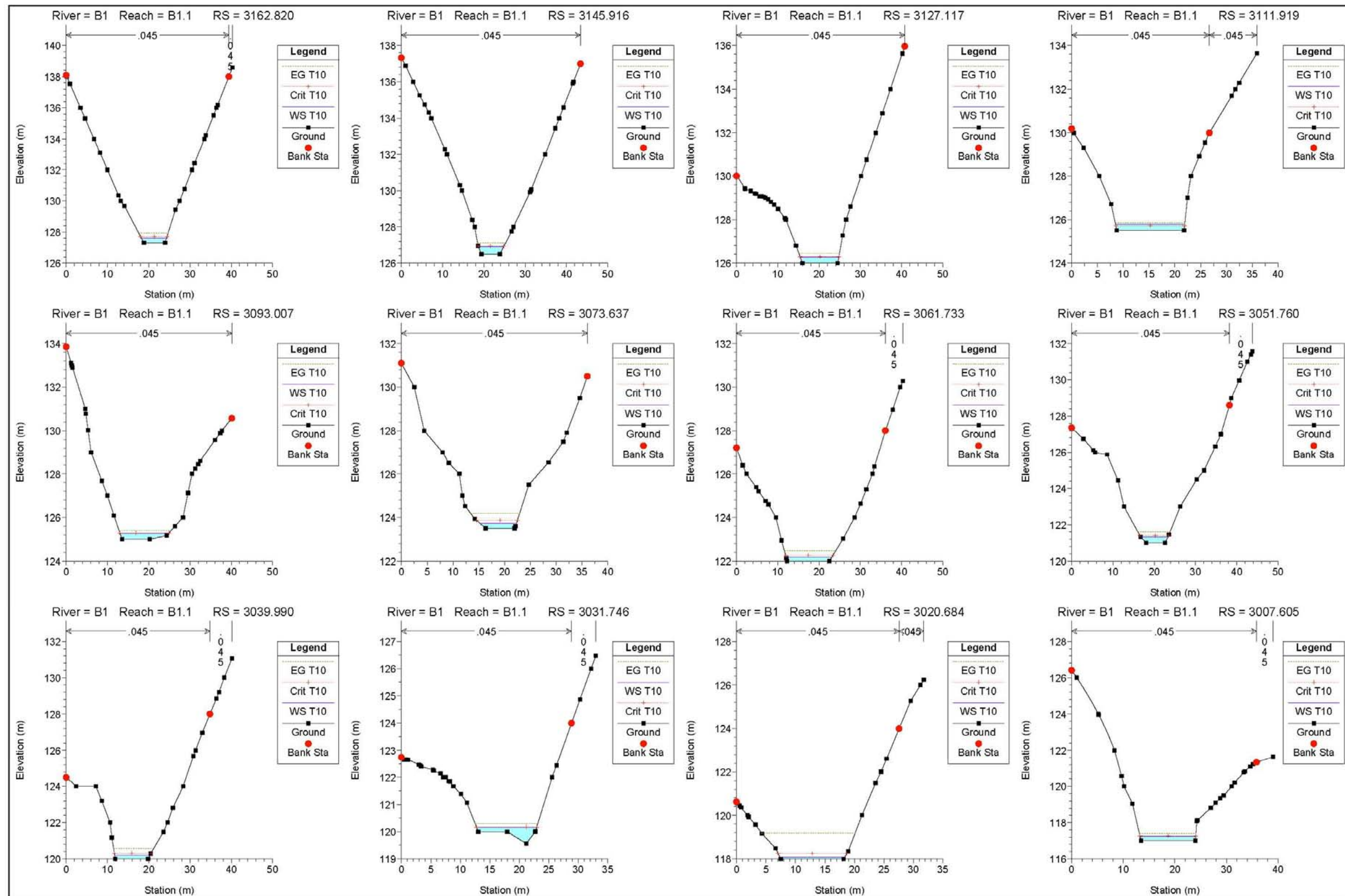


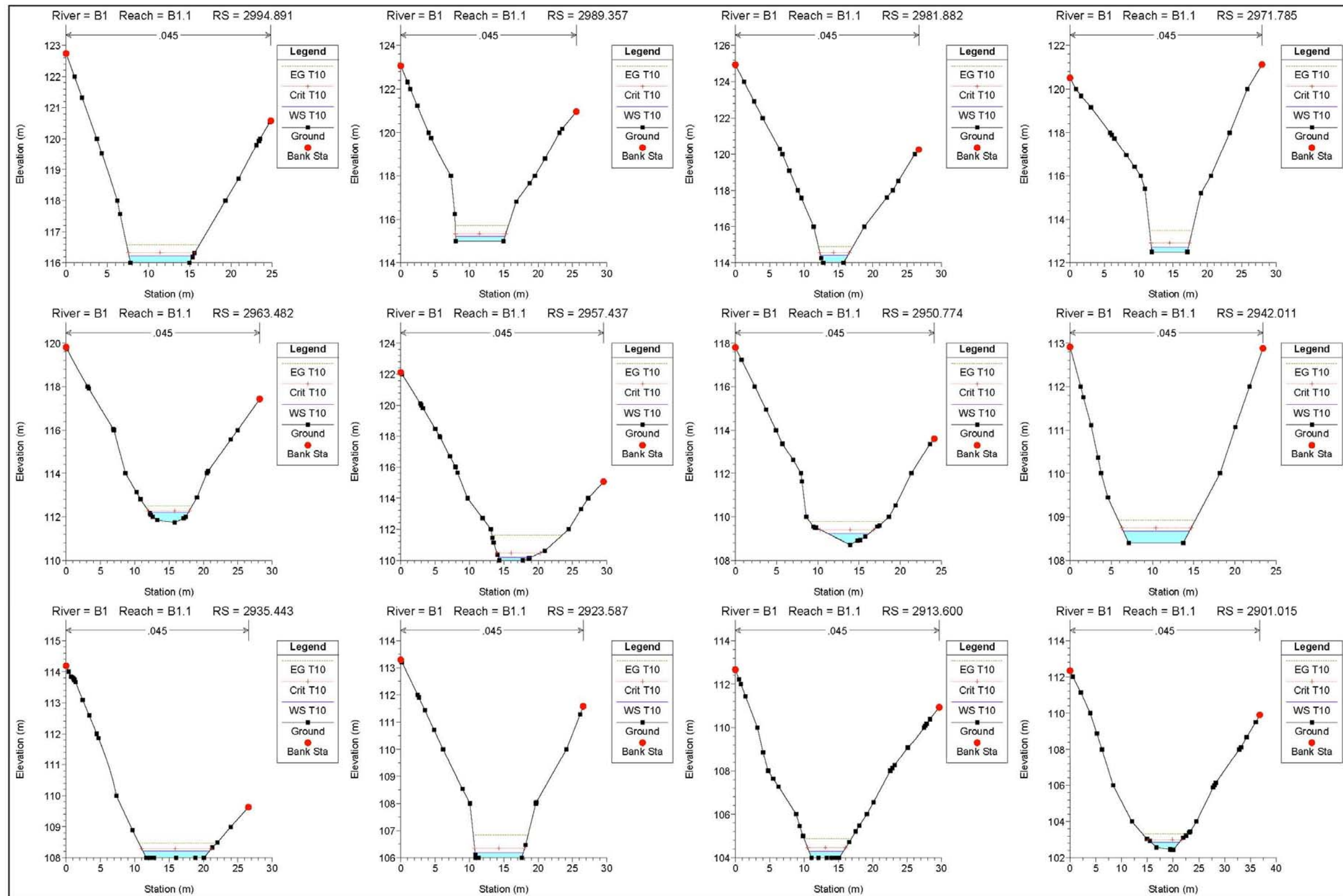


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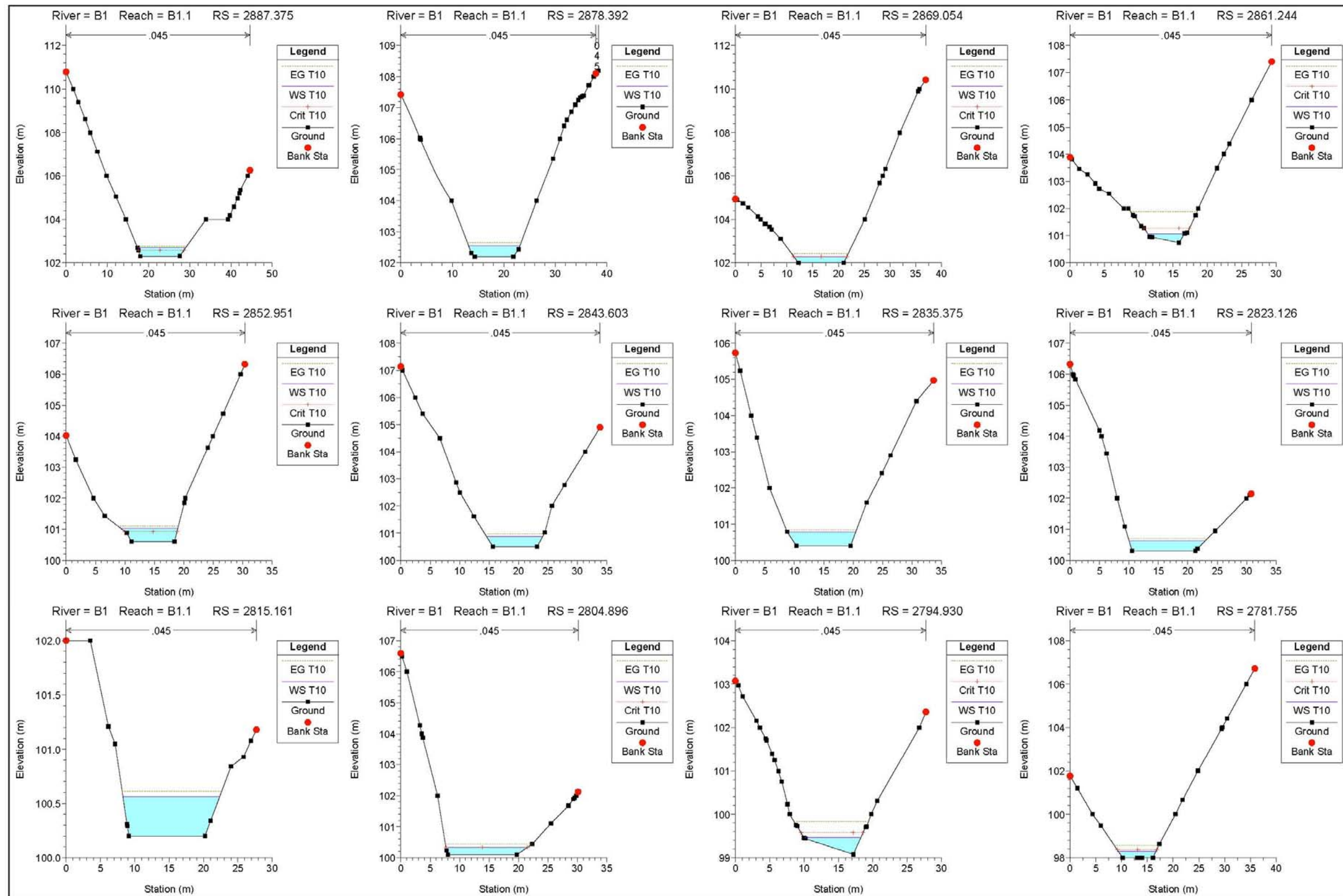


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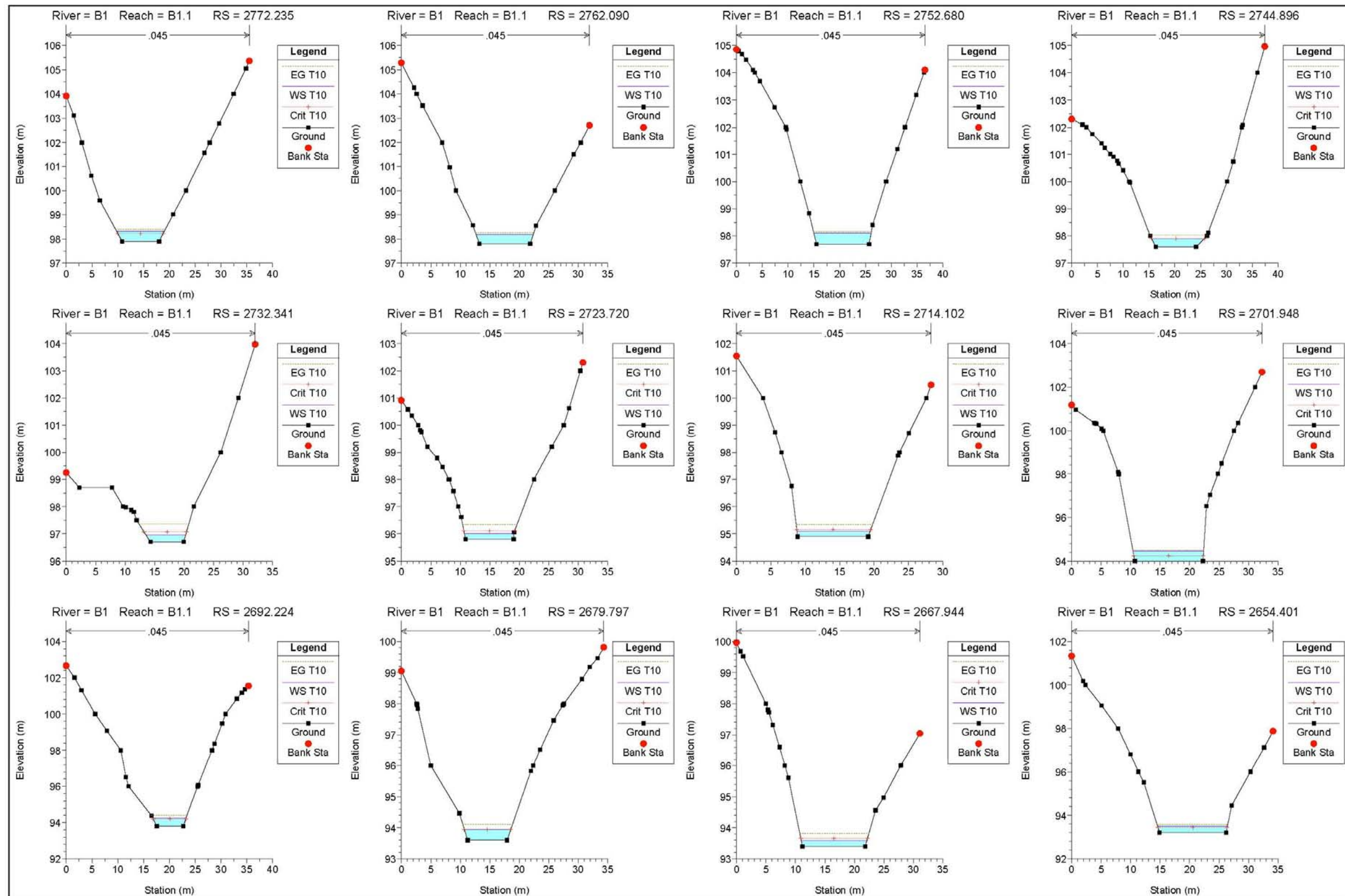


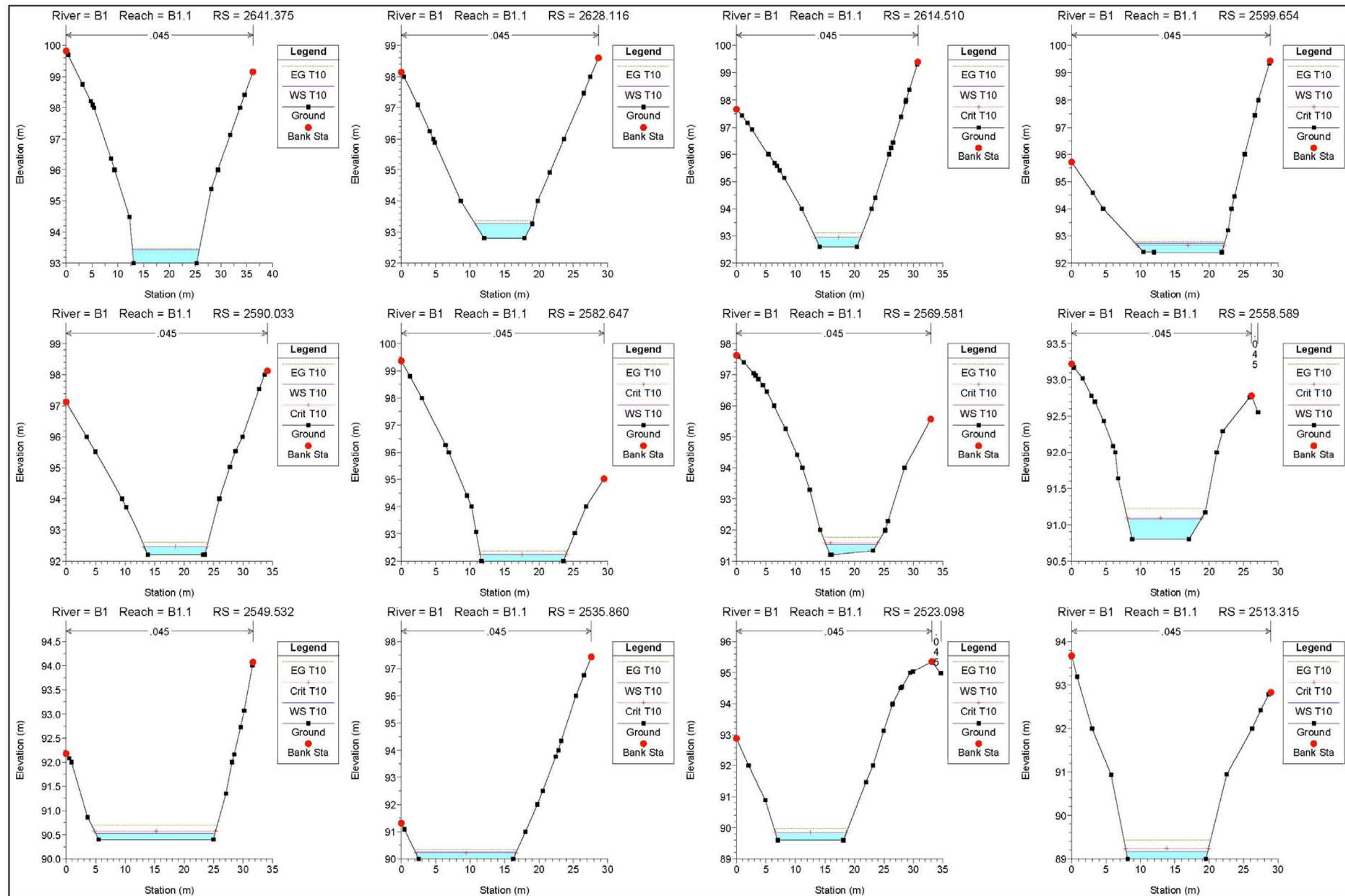


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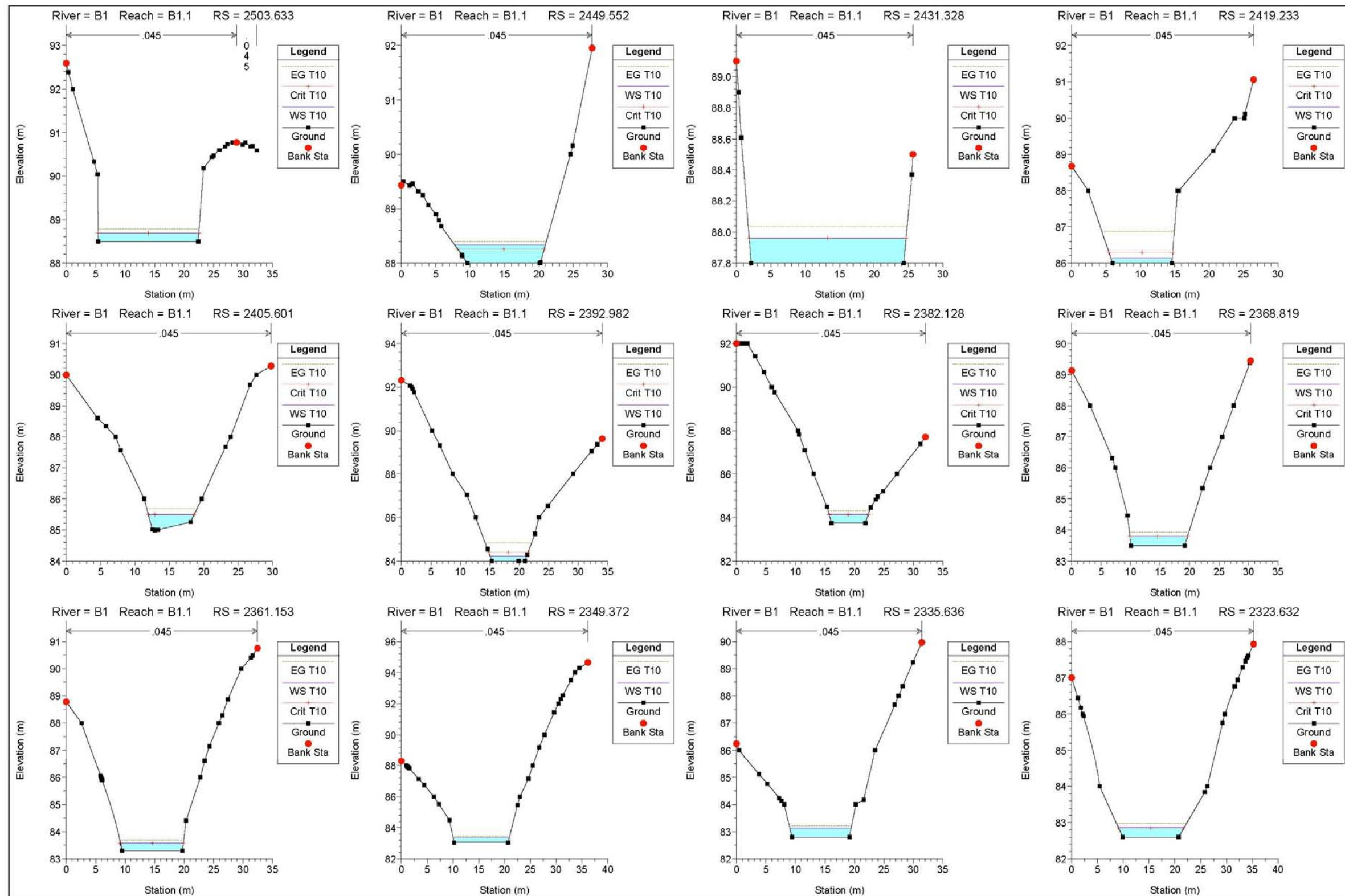


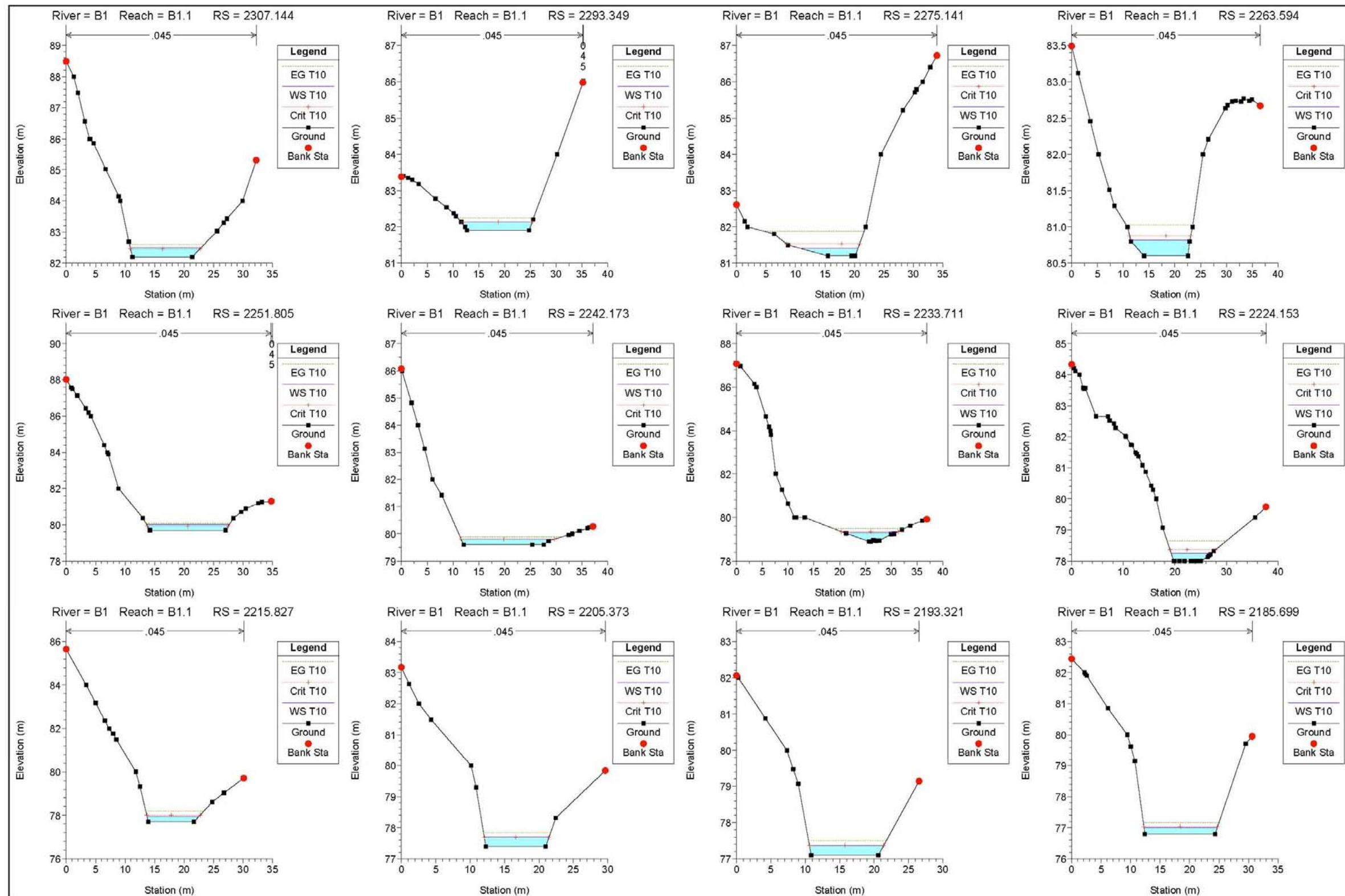
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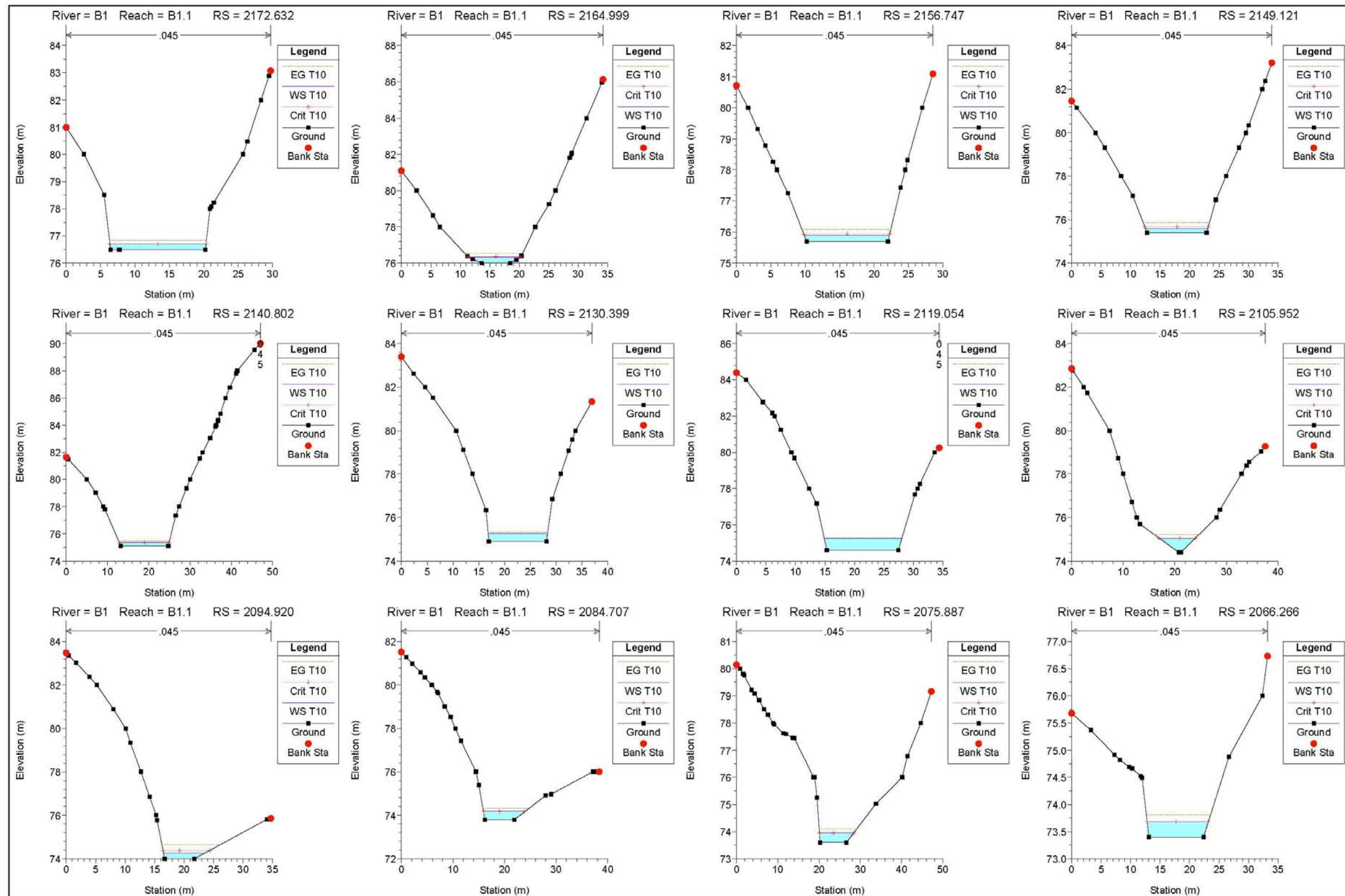


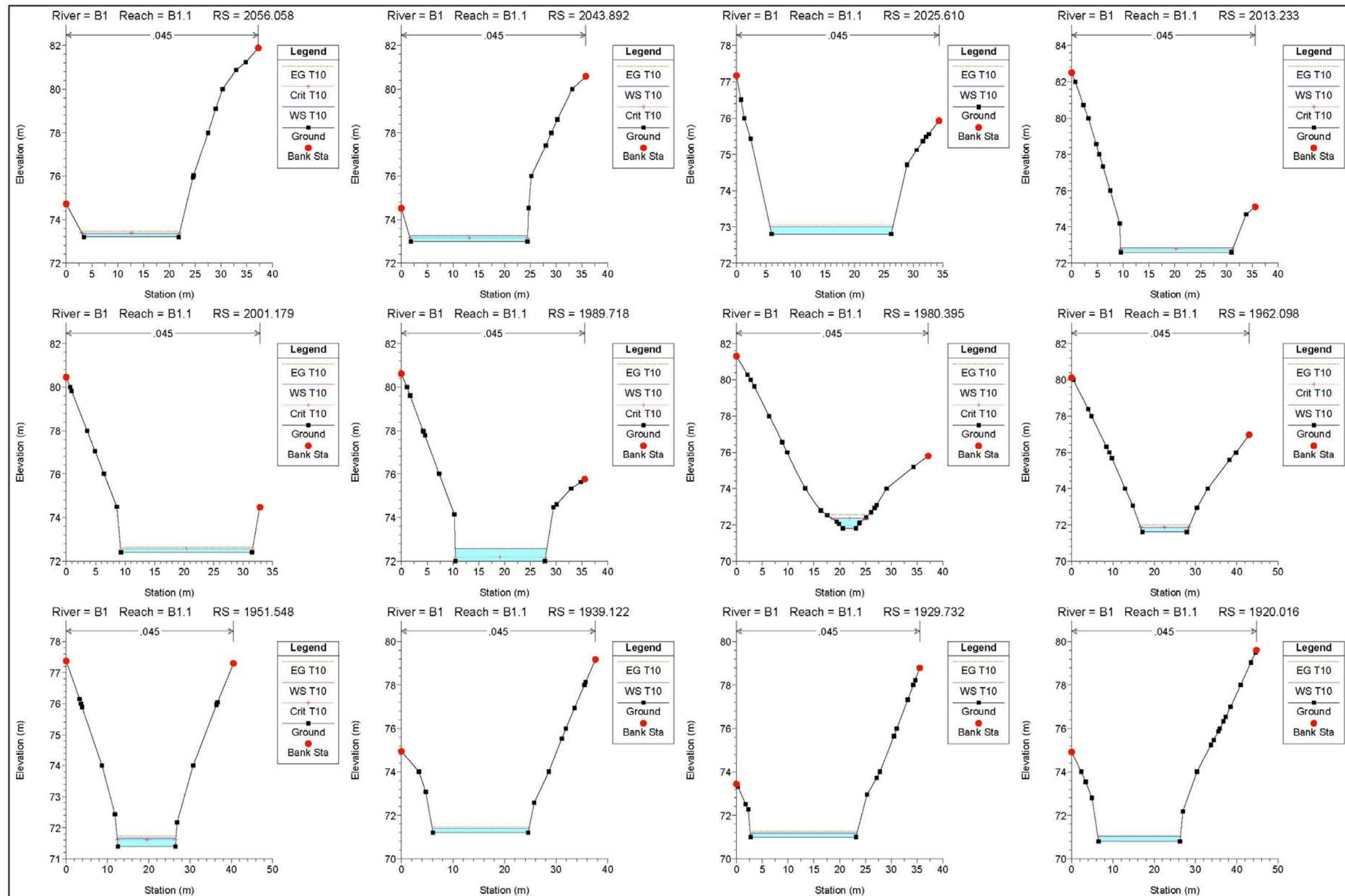
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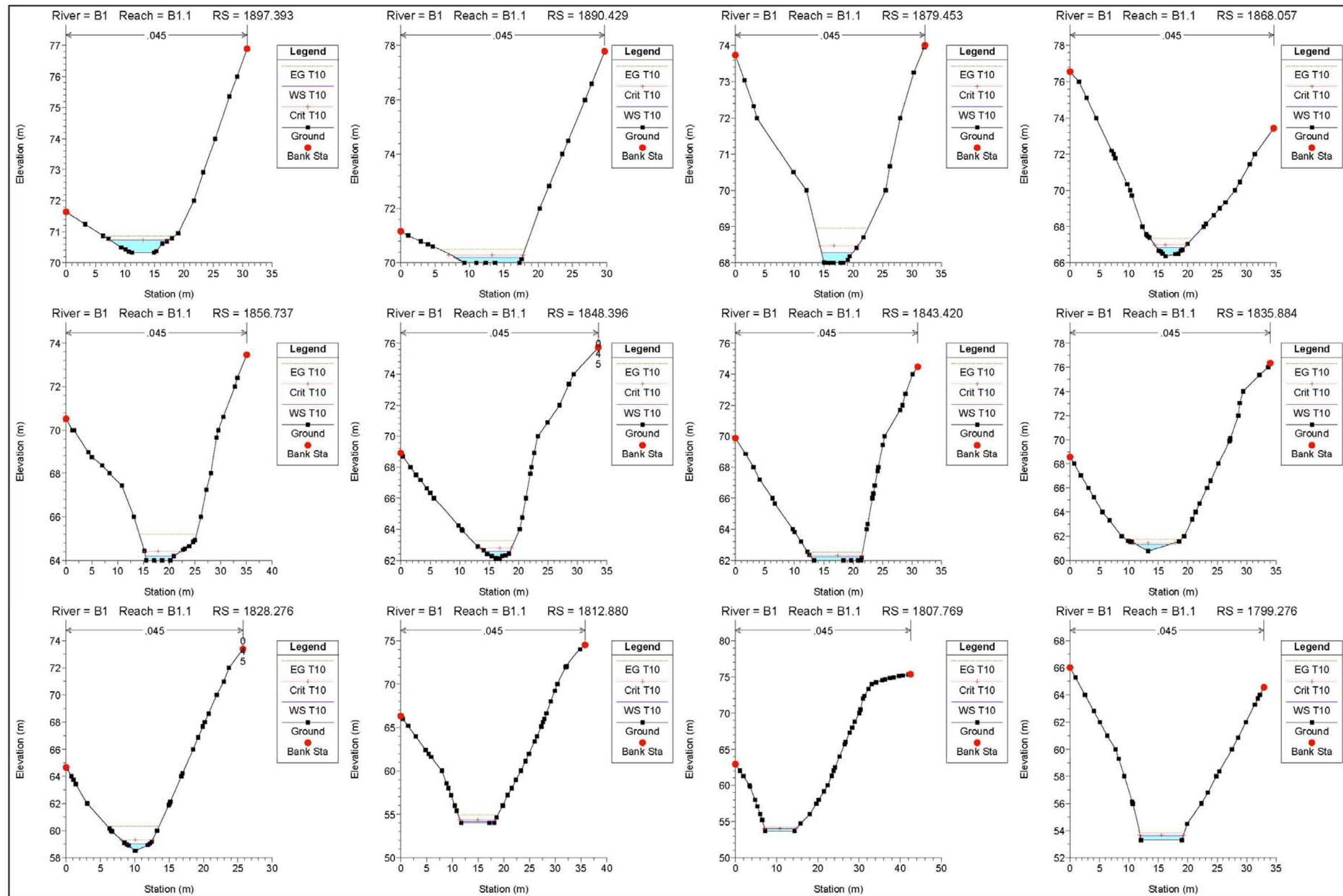


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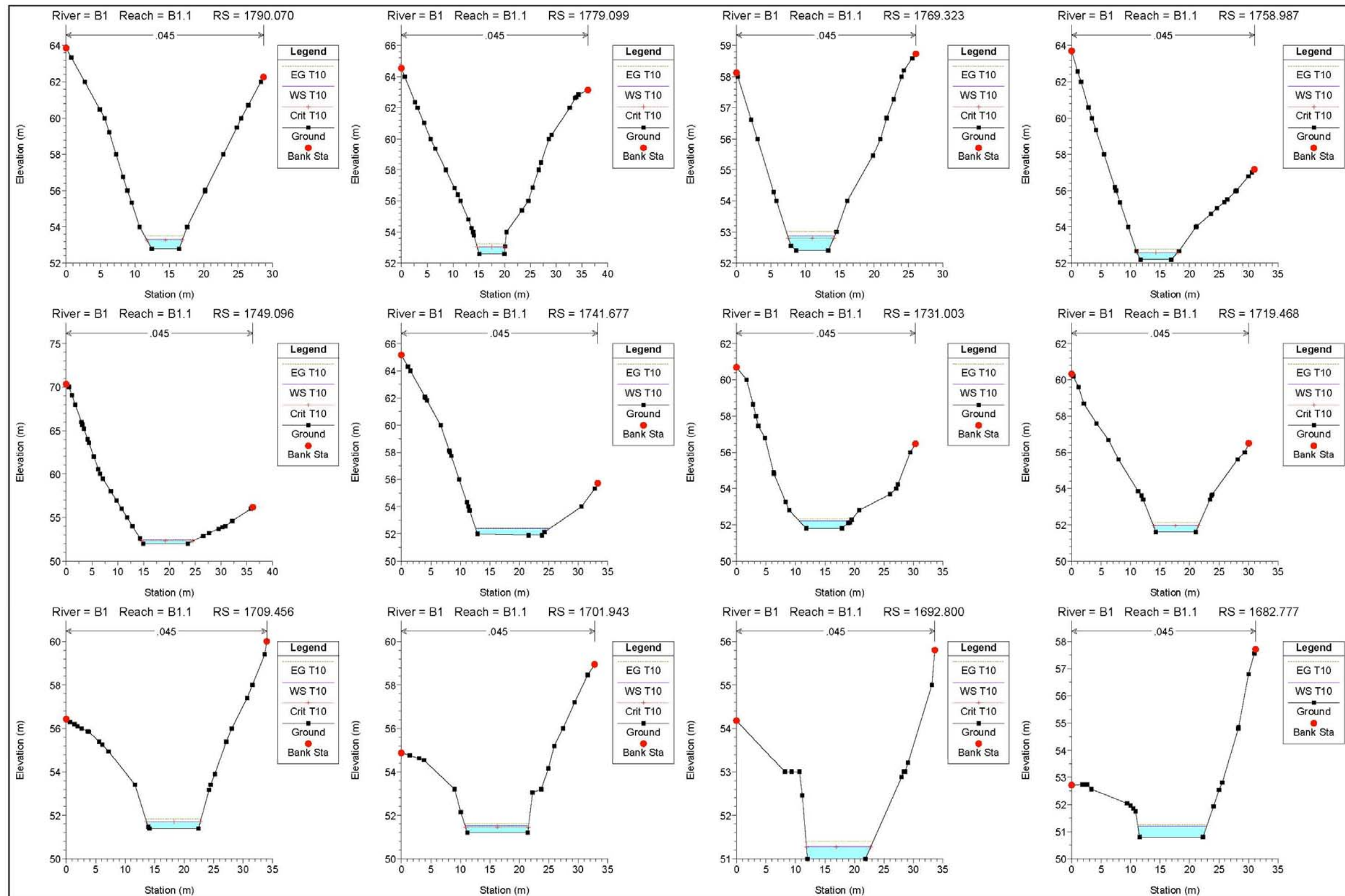




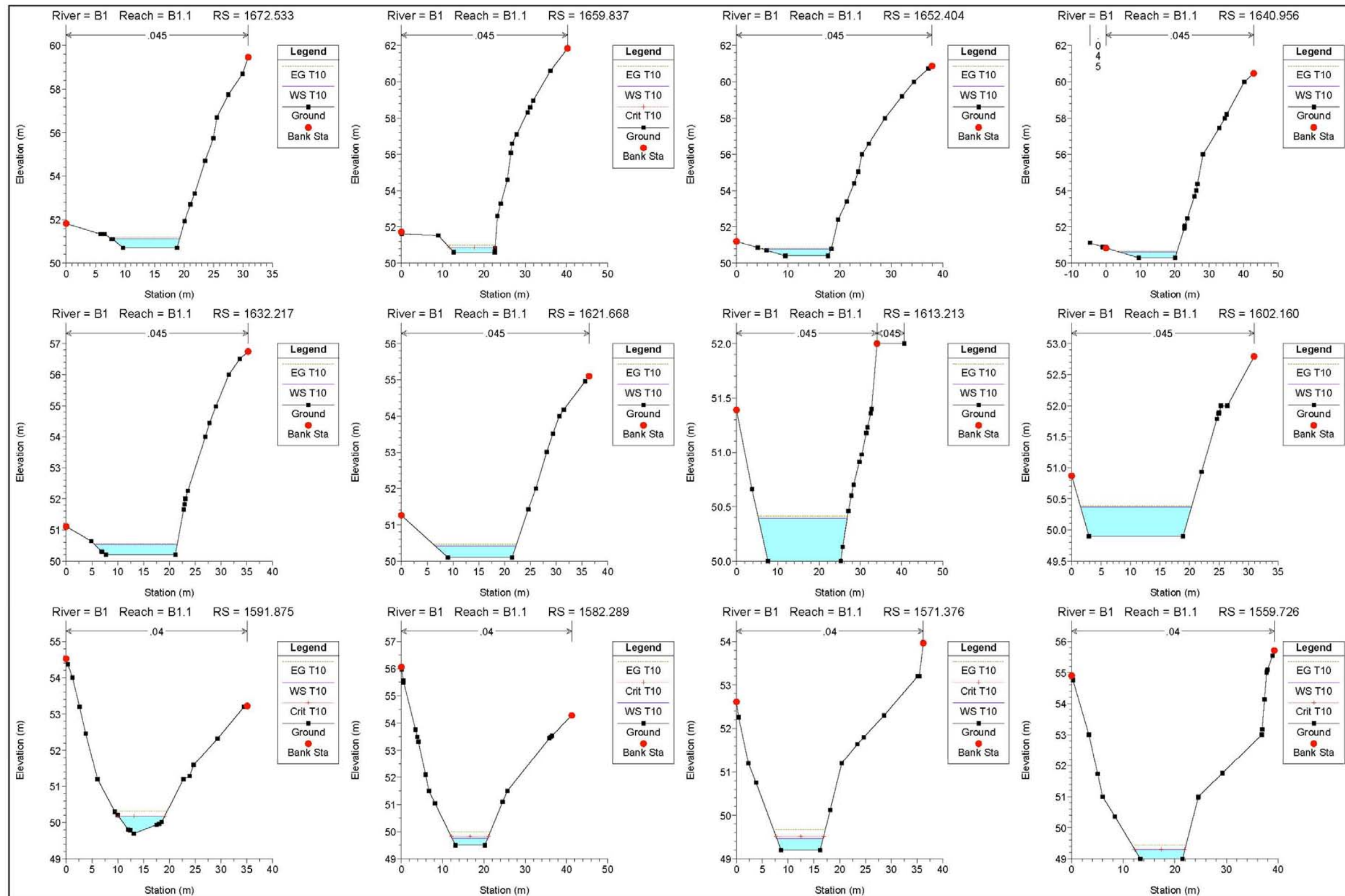
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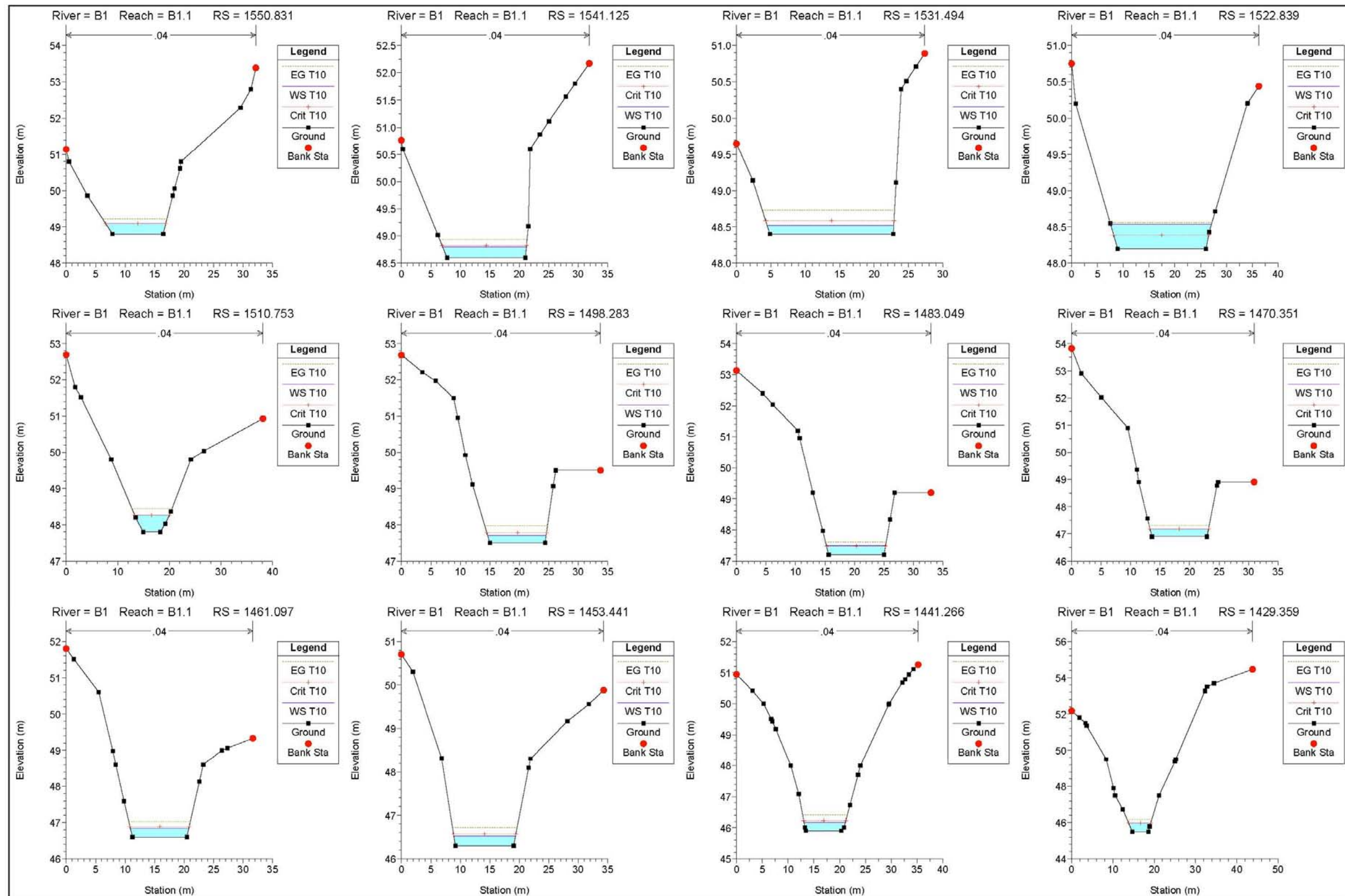
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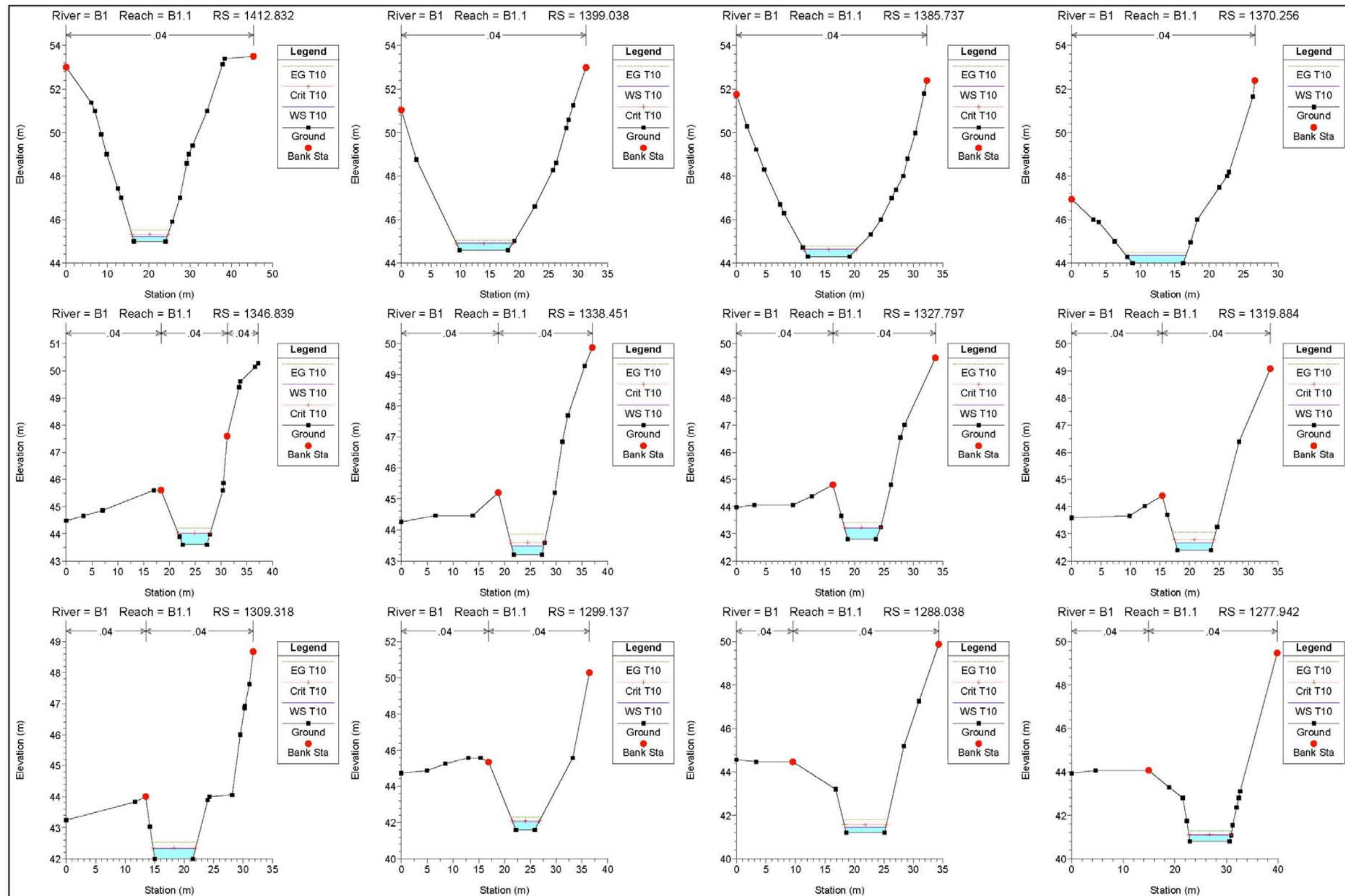


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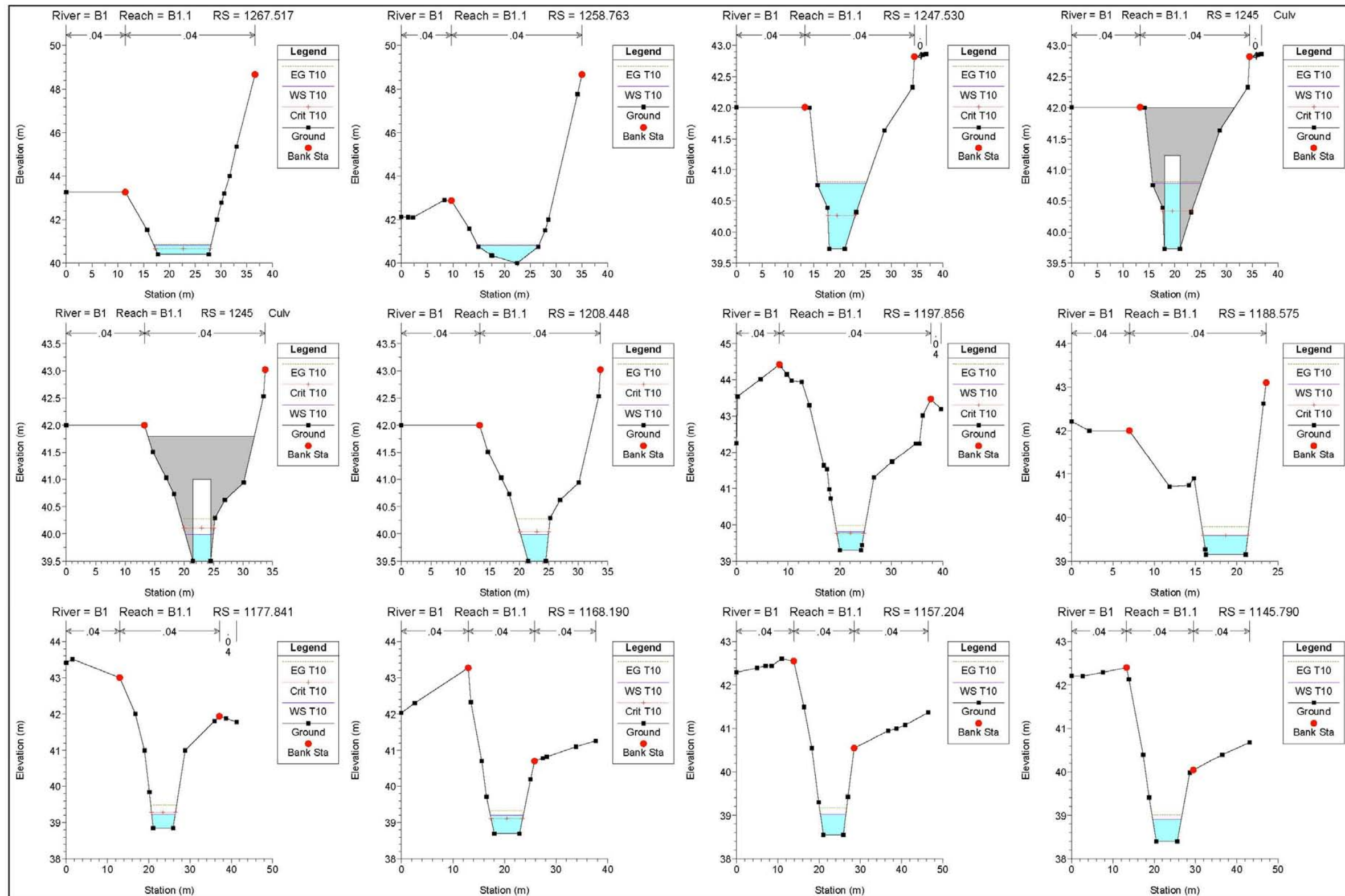


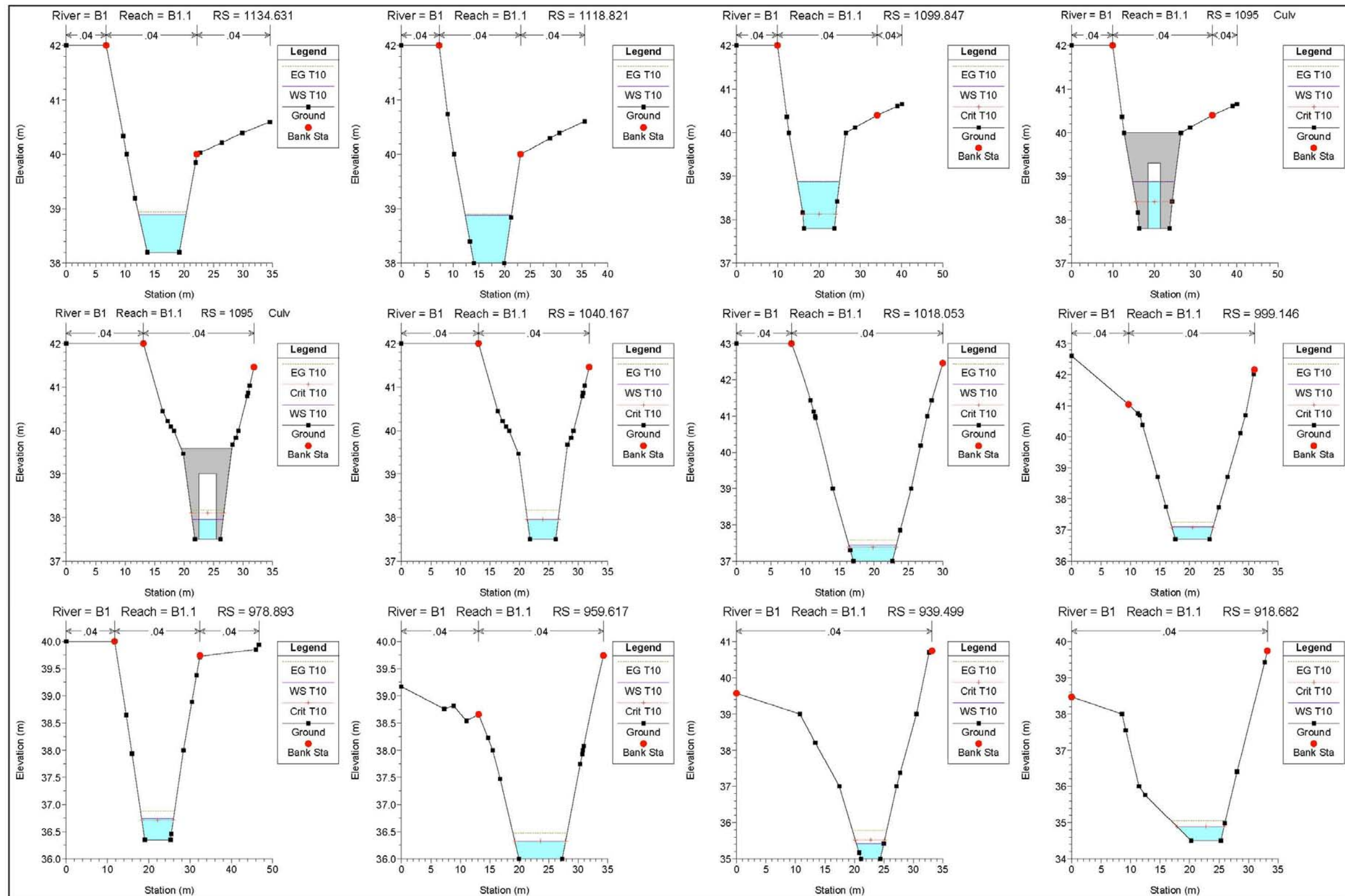
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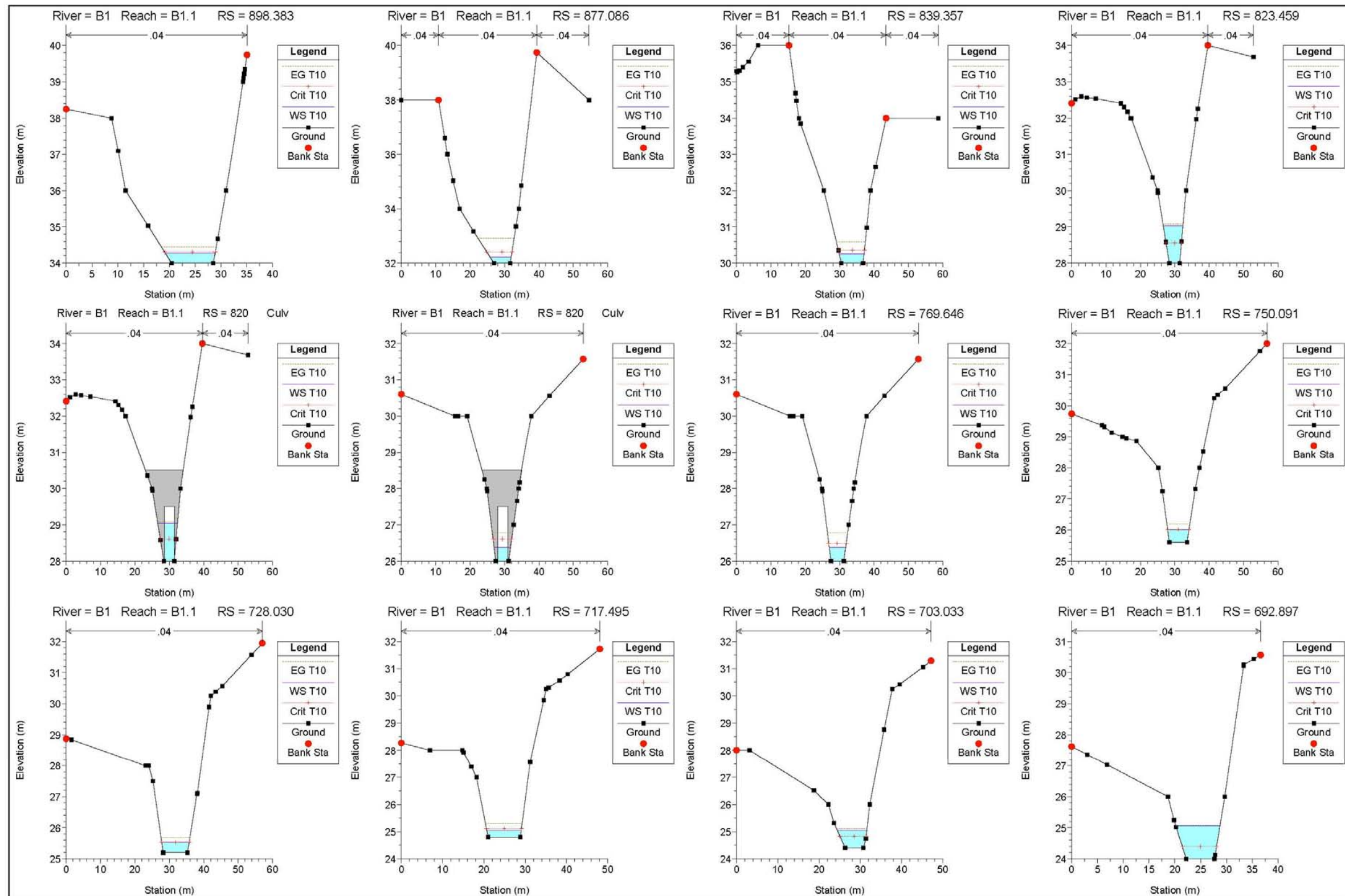




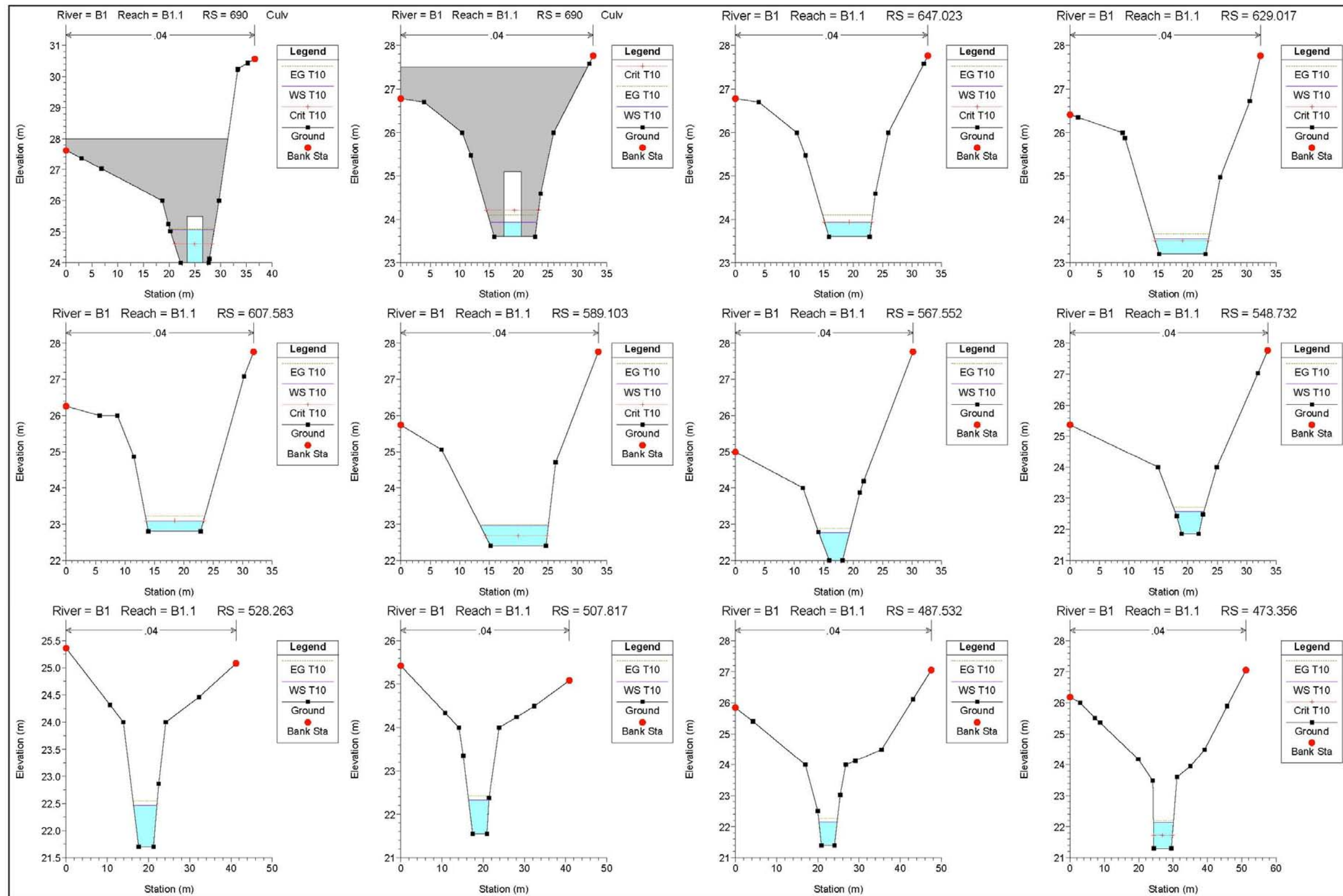
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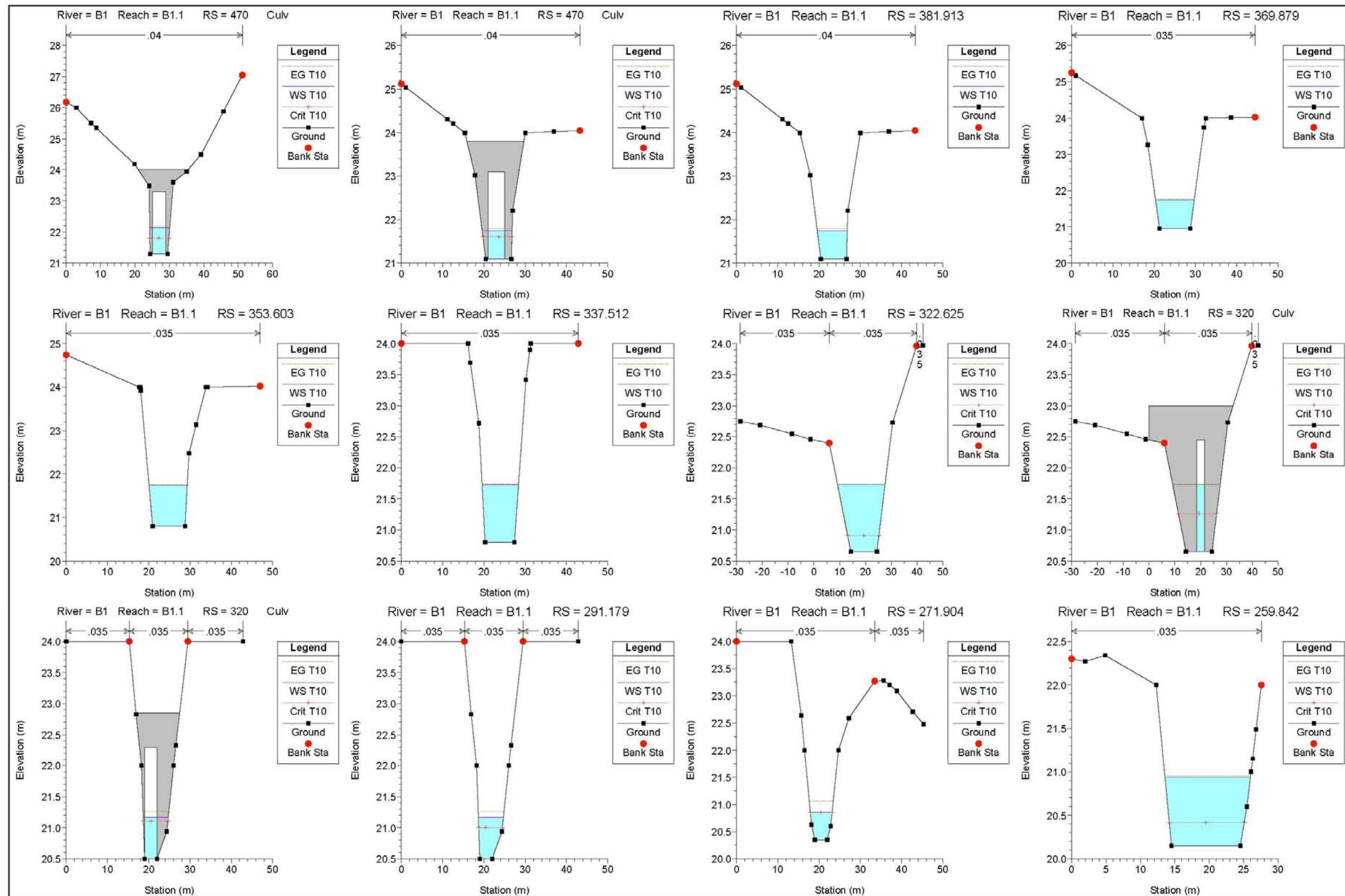




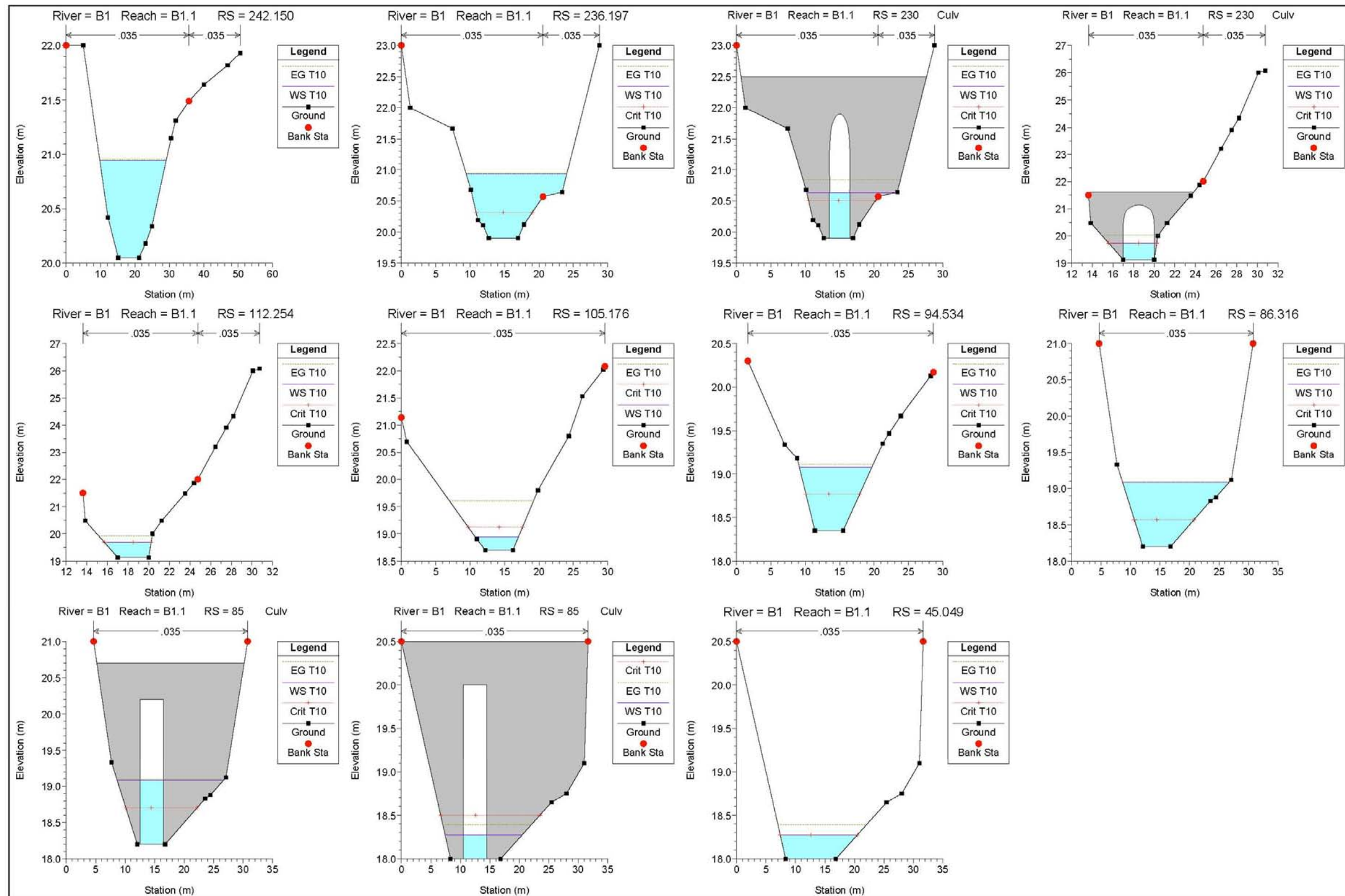
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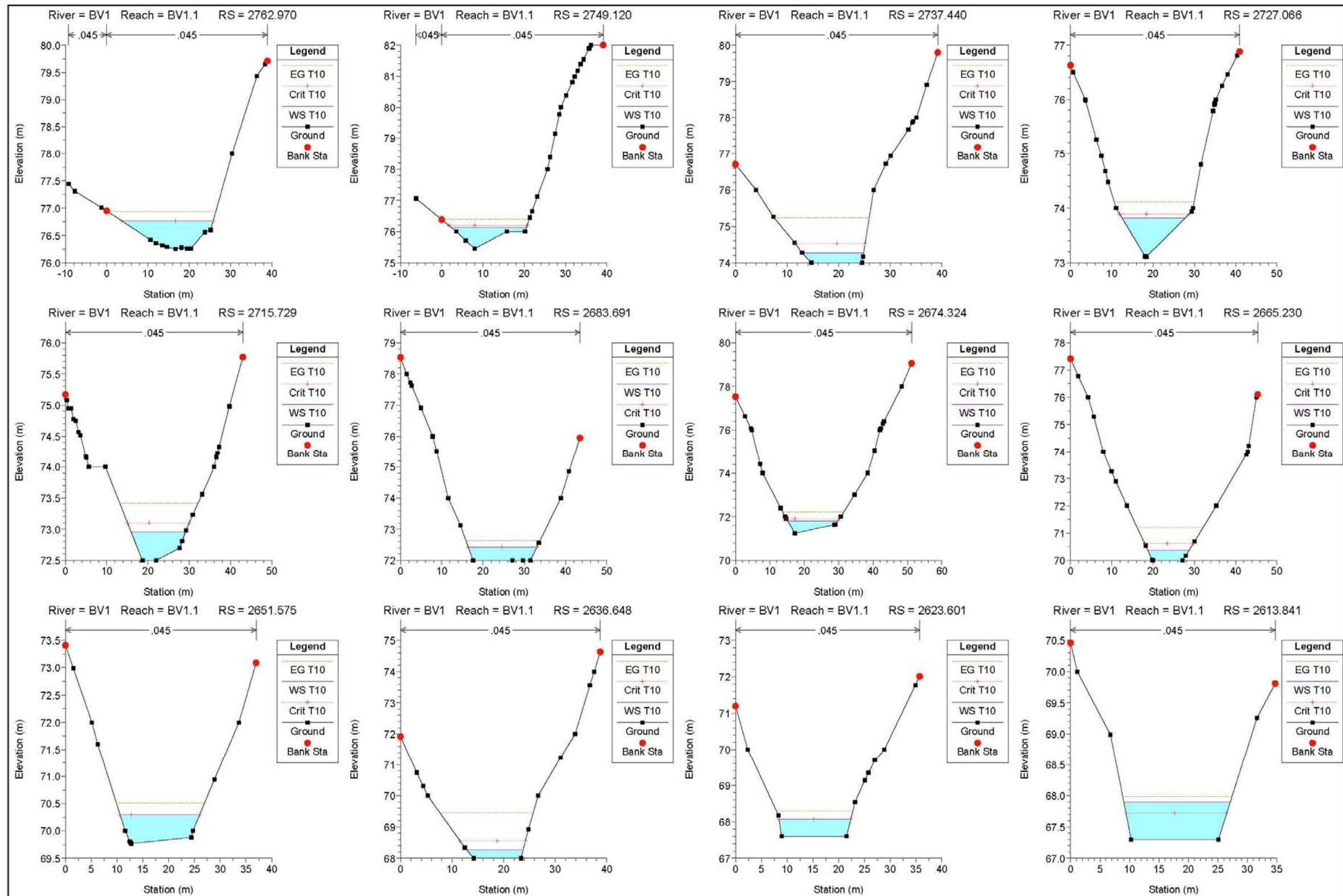
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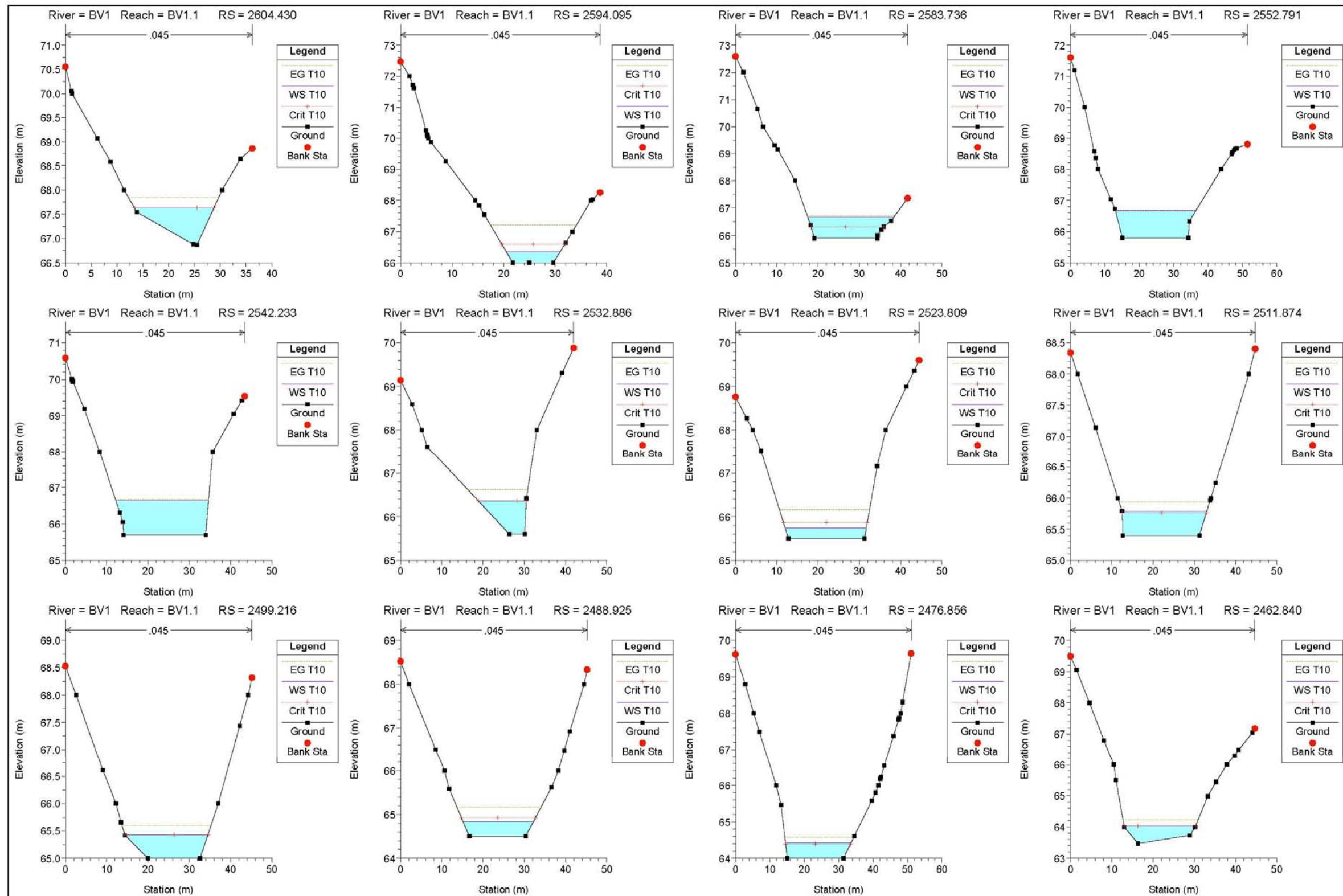
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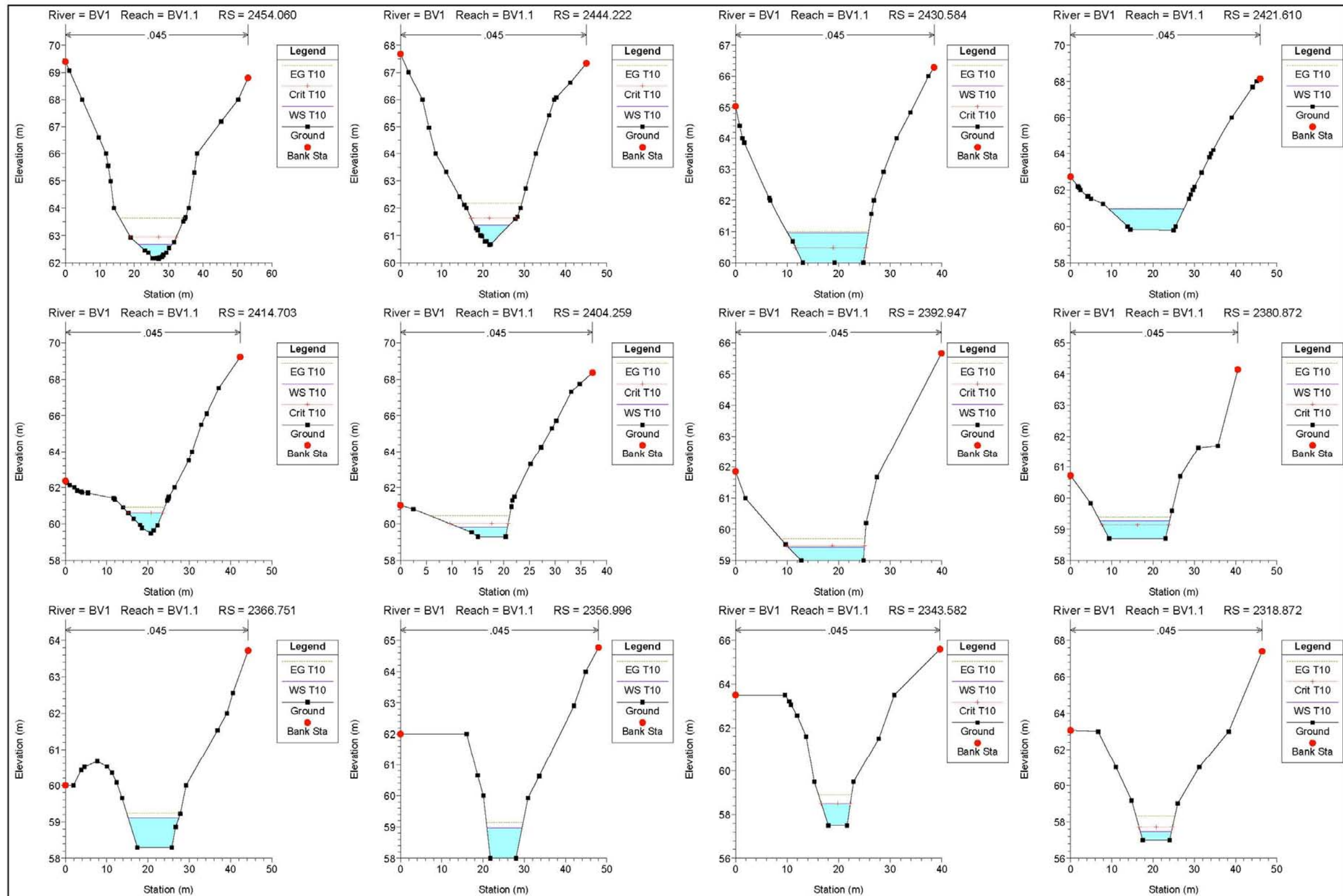
3.3.3.2.- Arroyo Buenavista



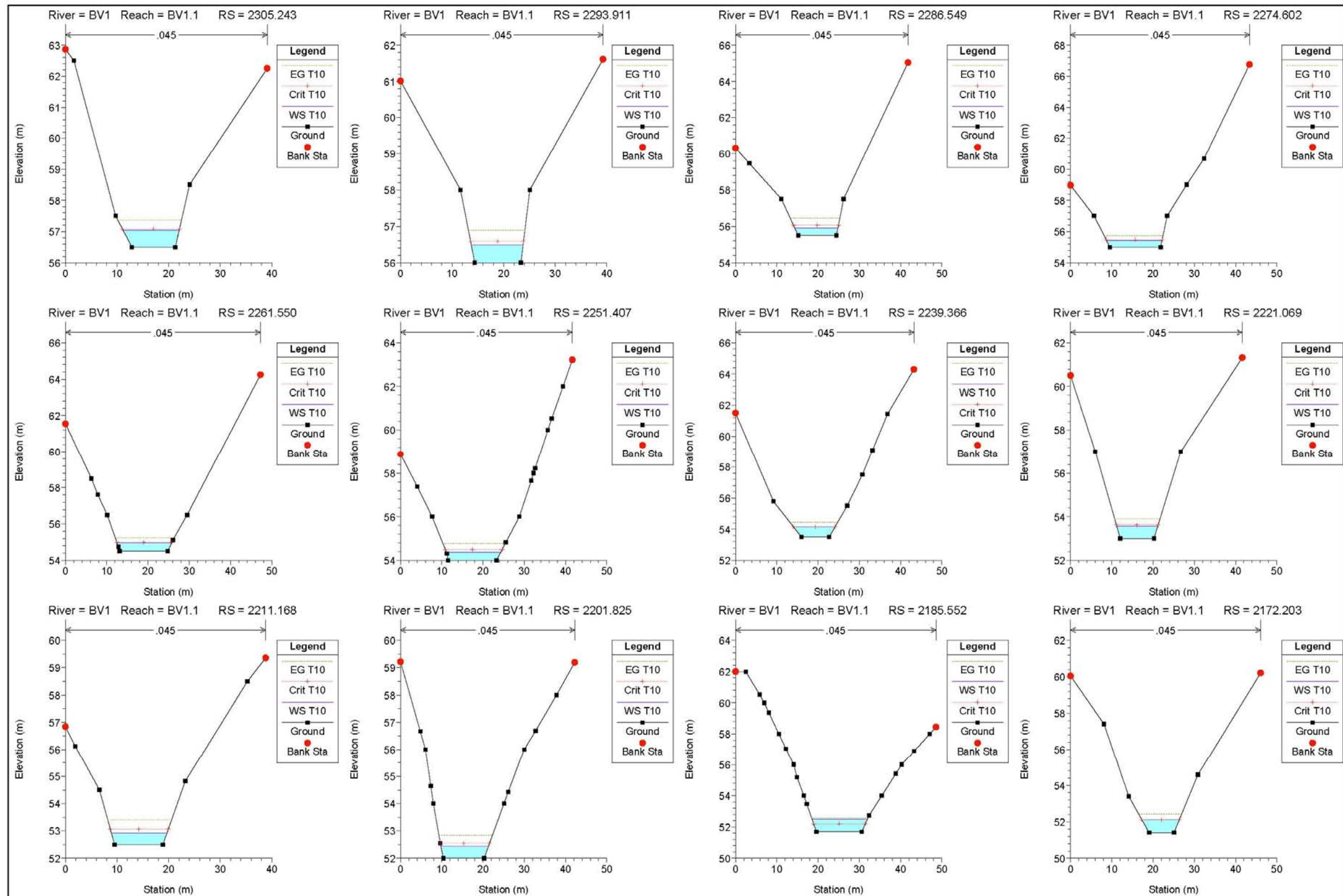
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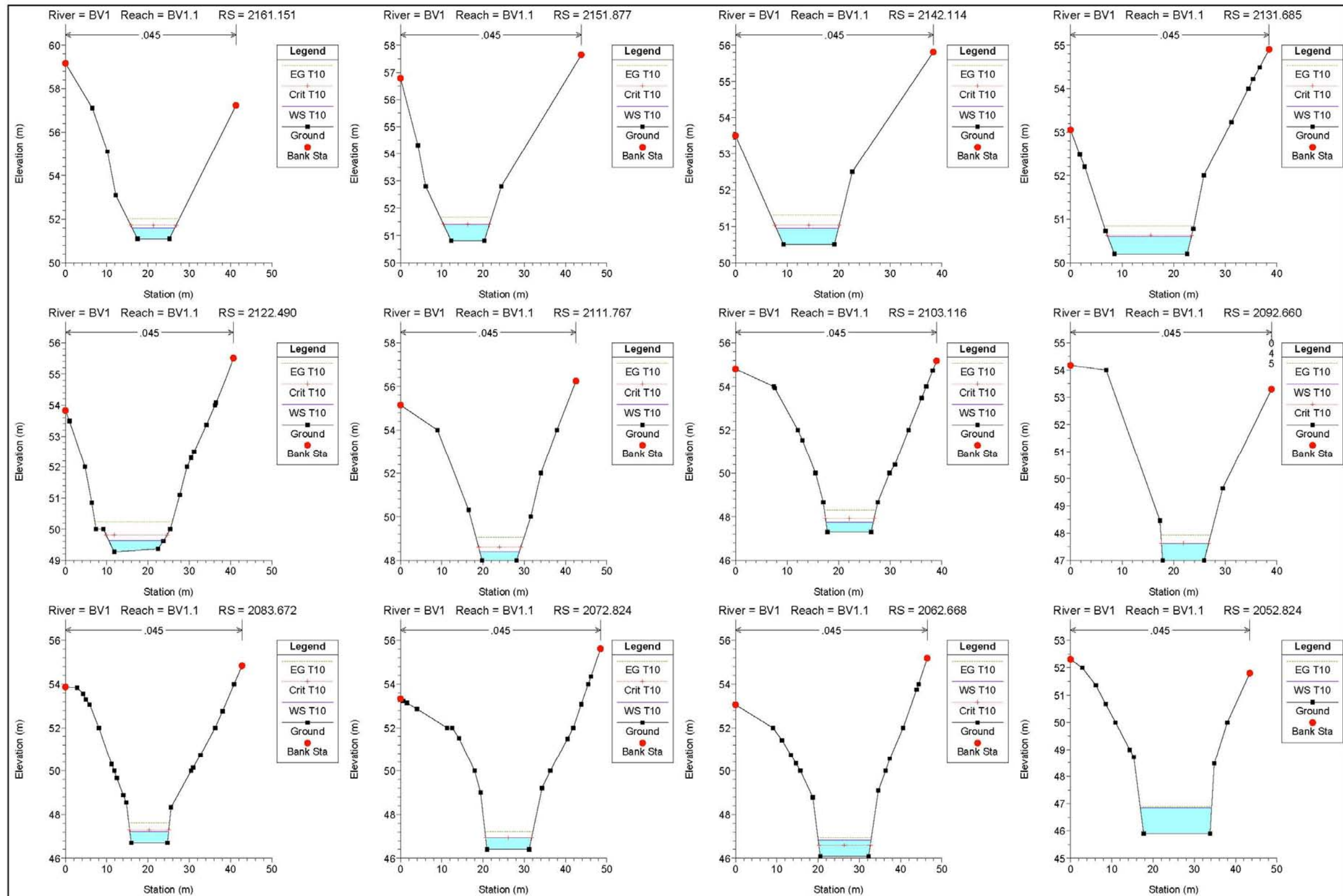
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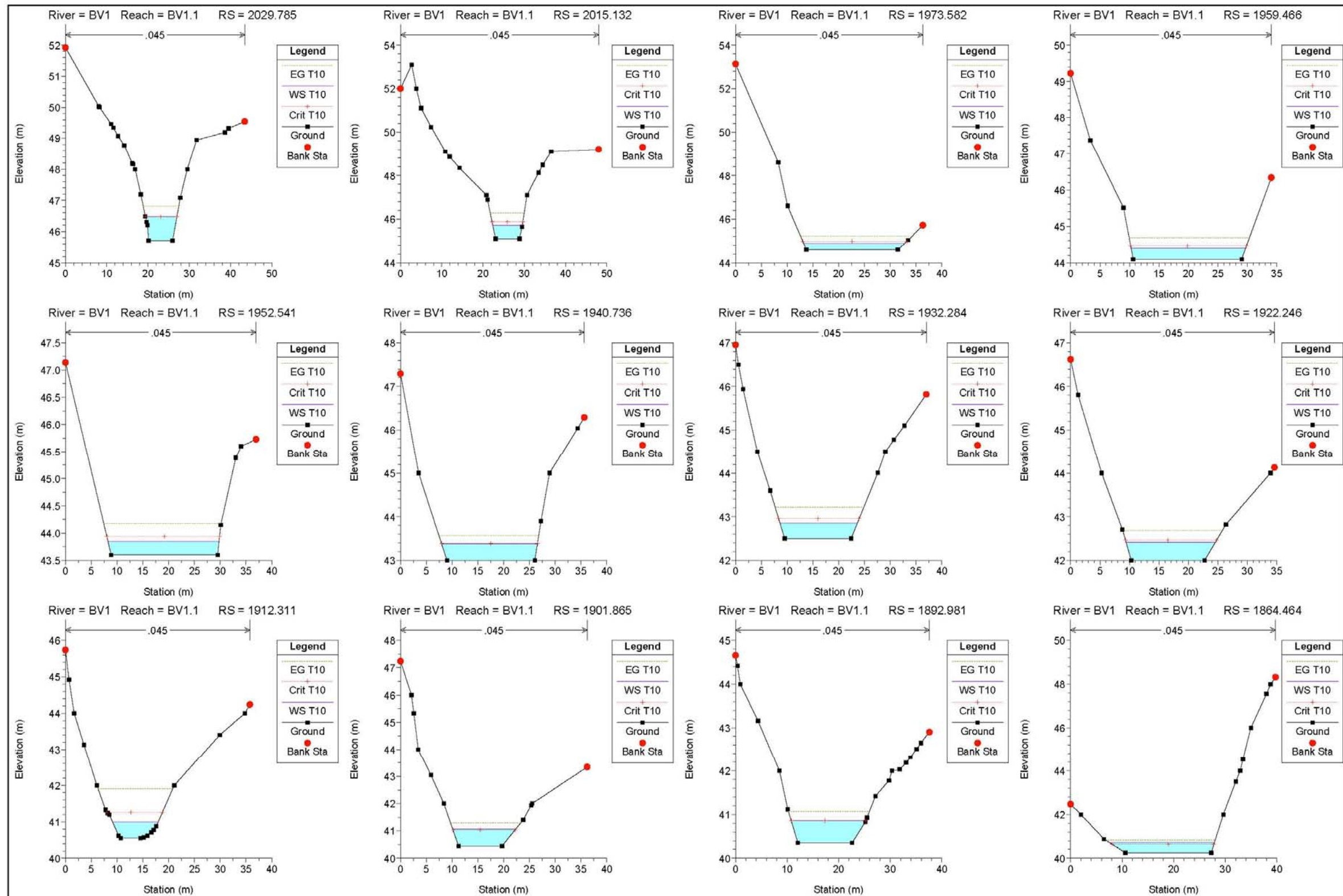
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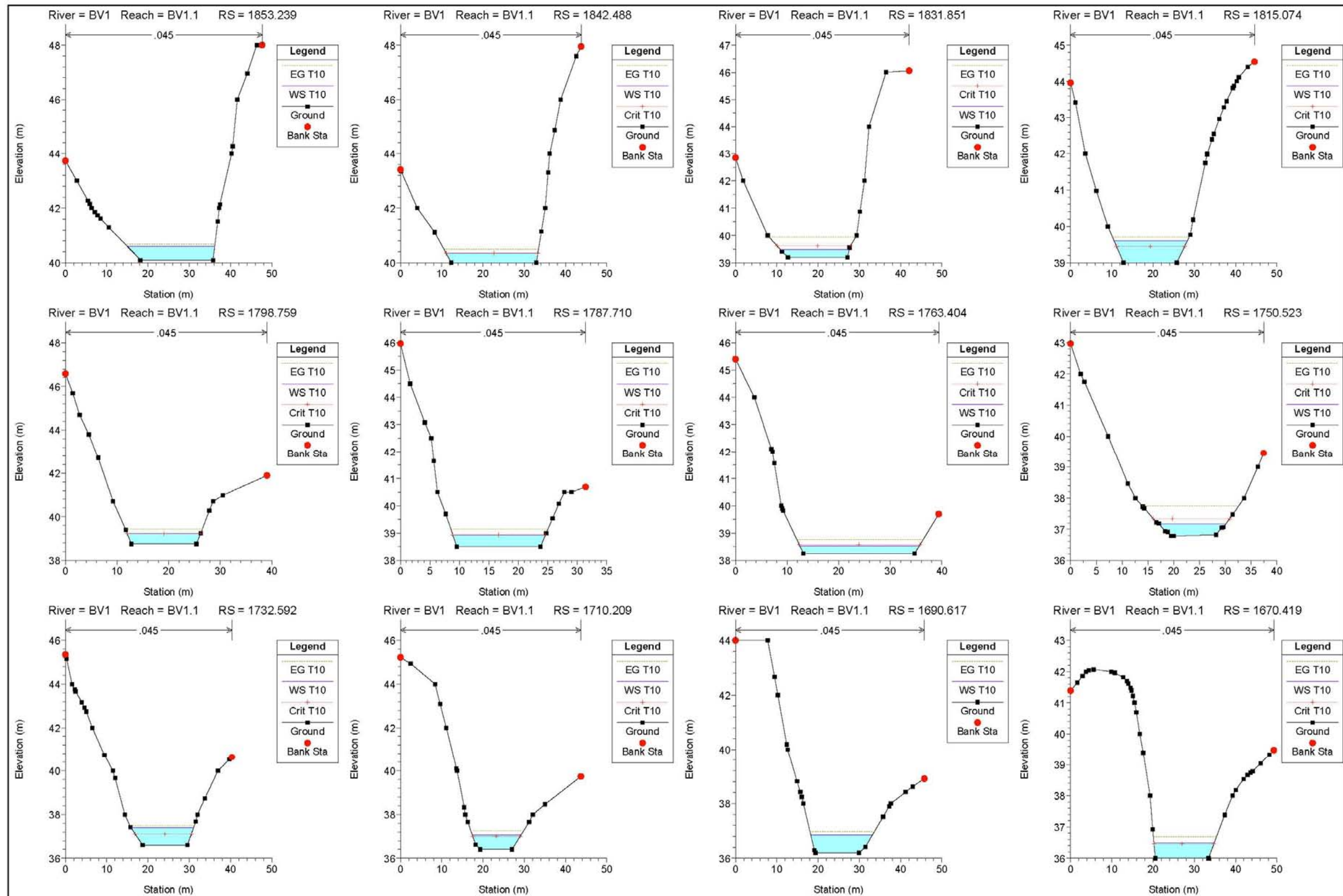
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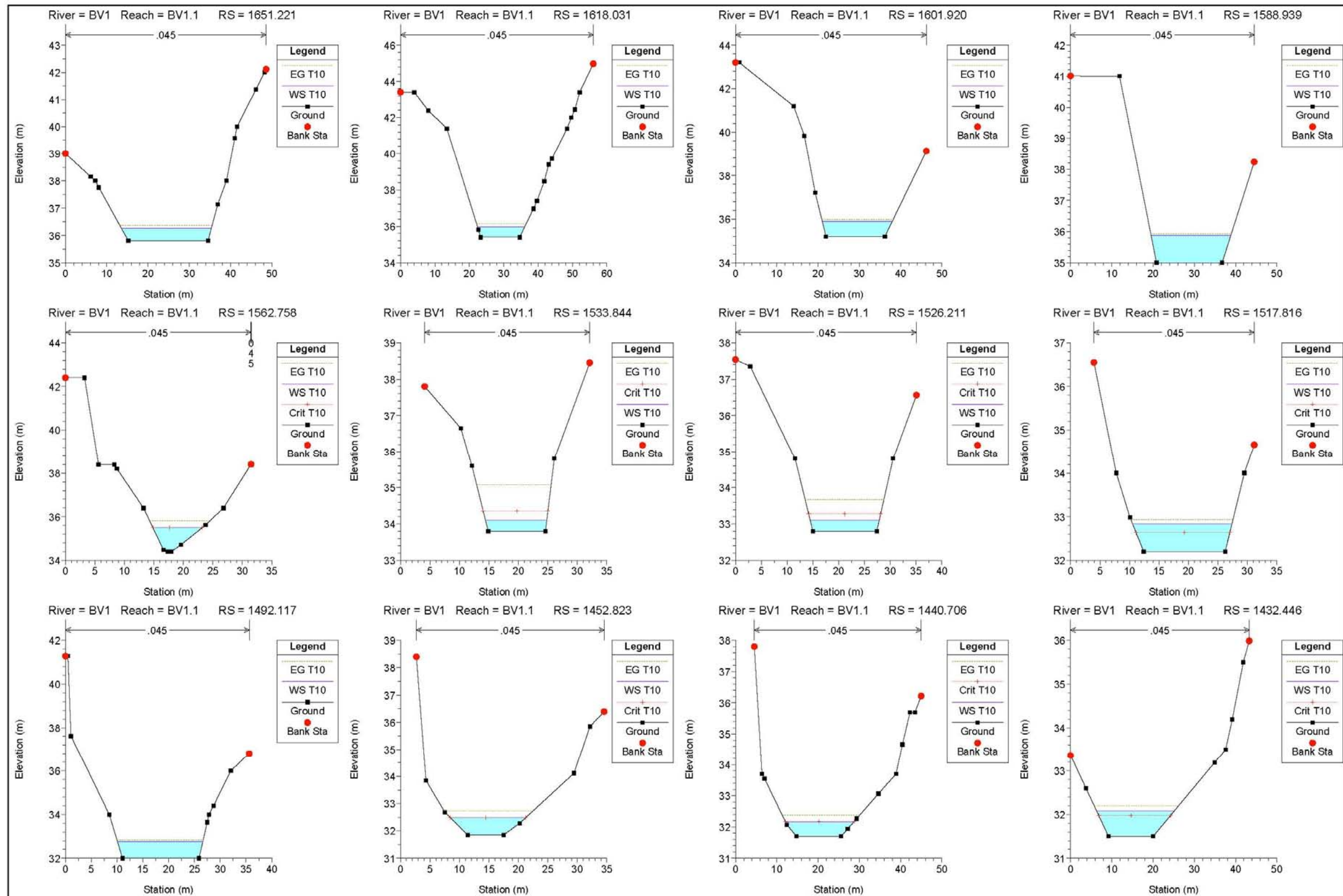
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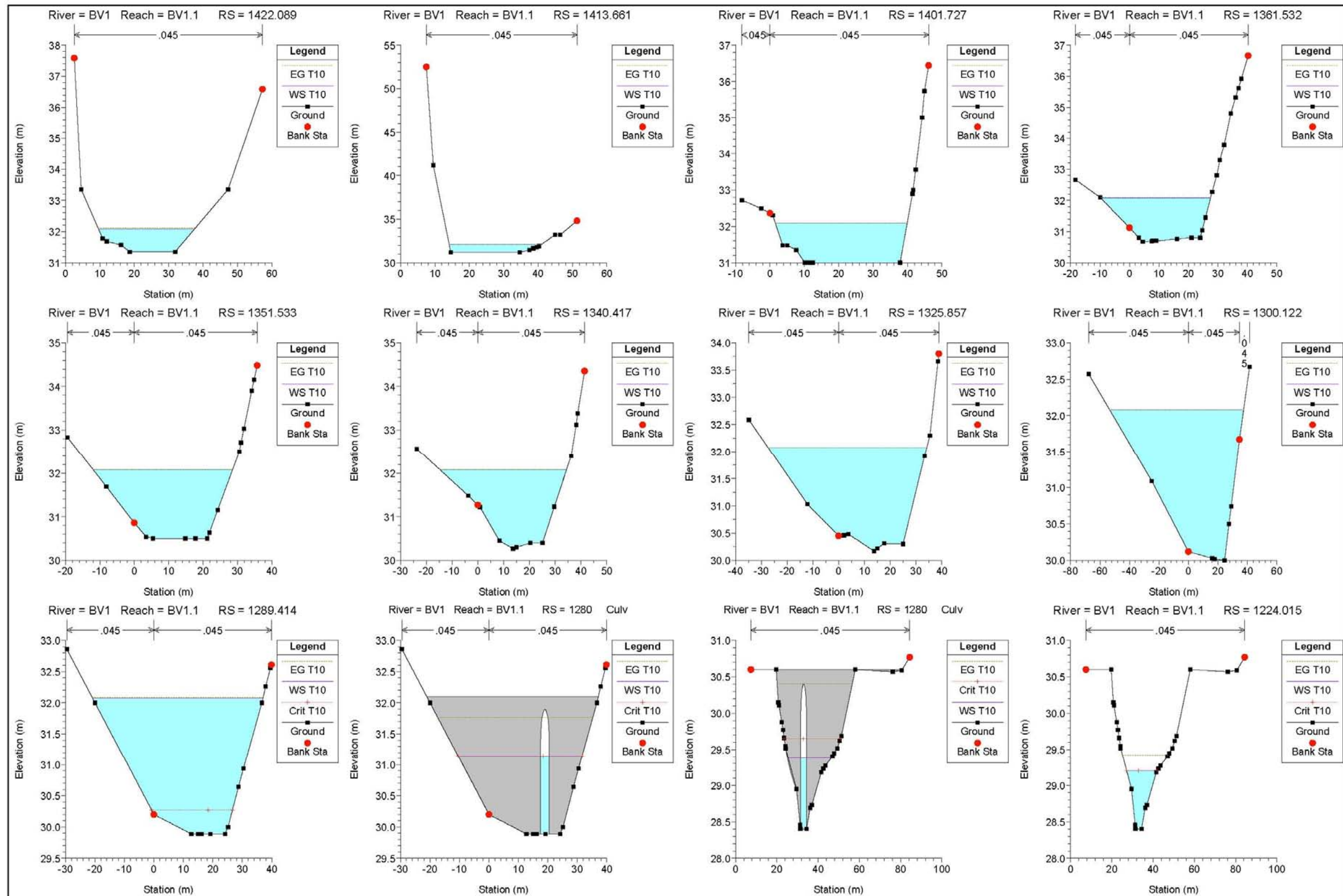


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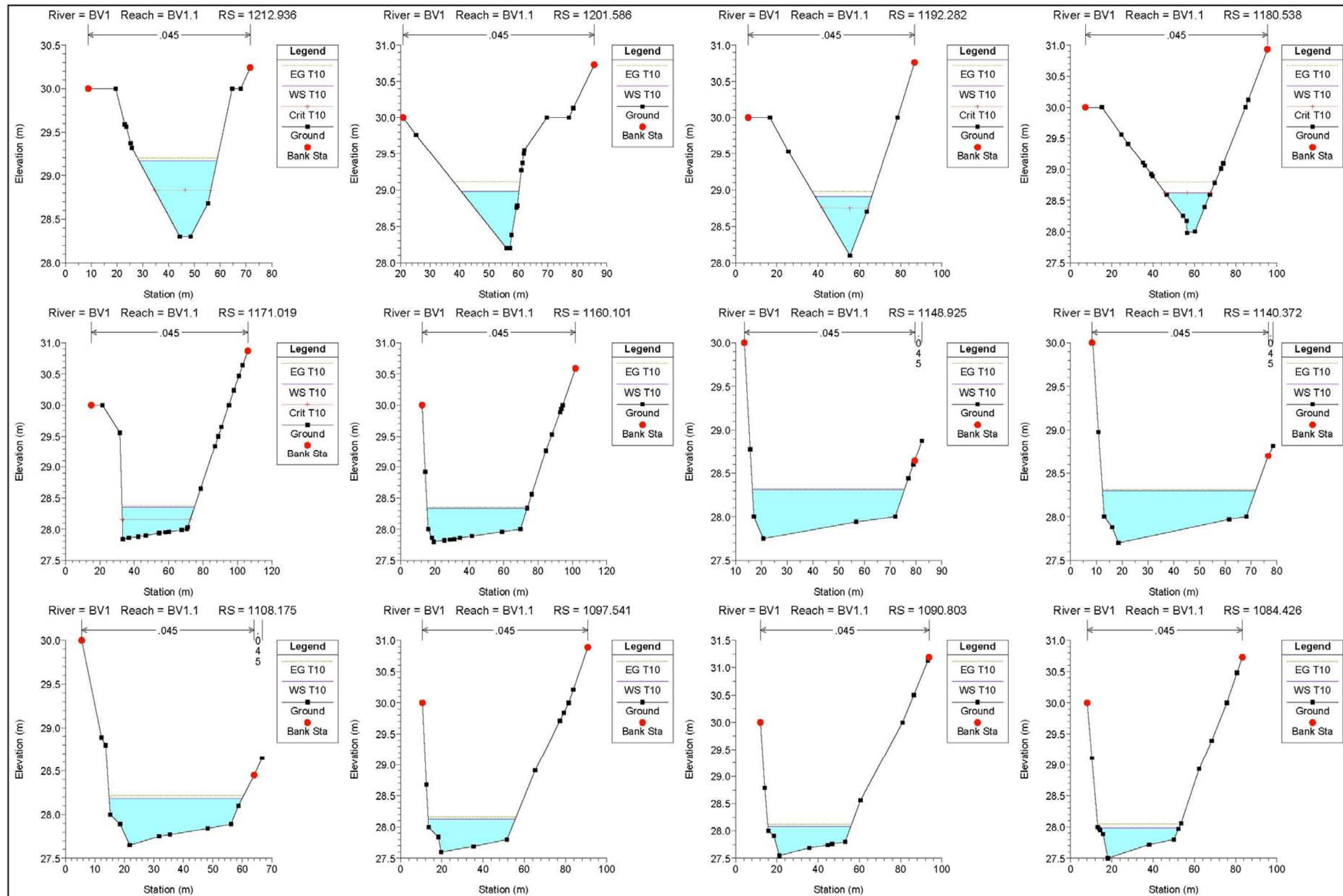


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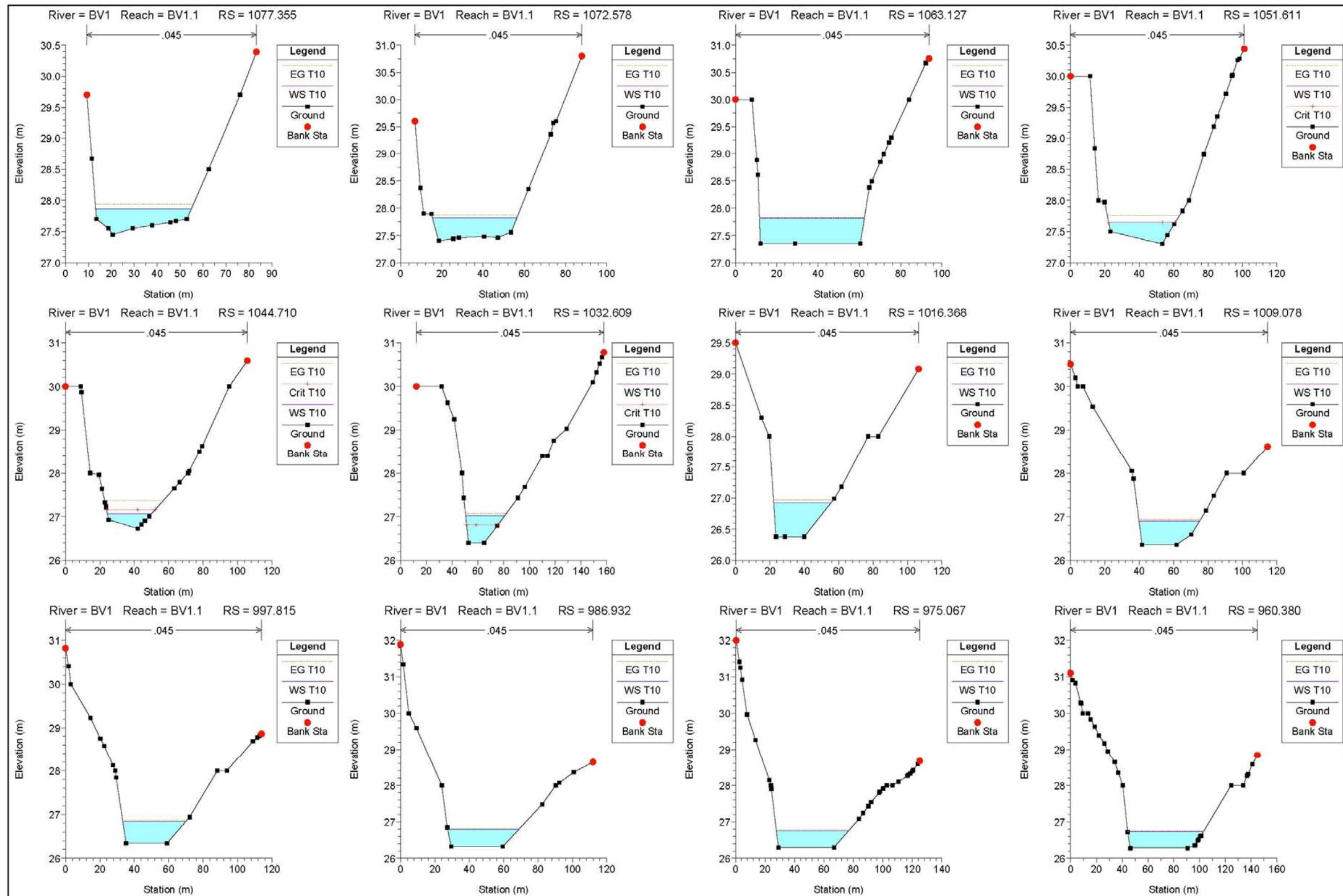




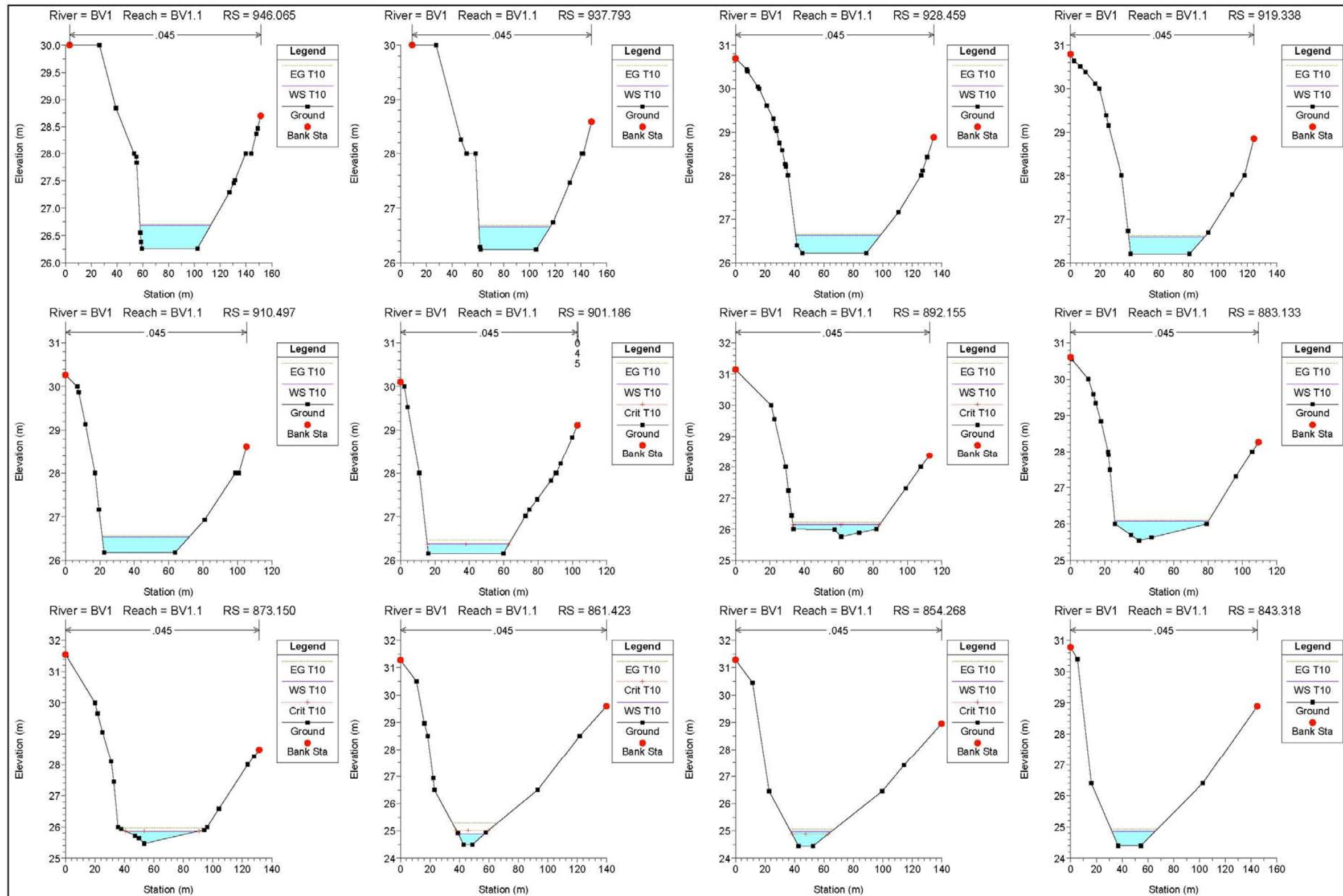
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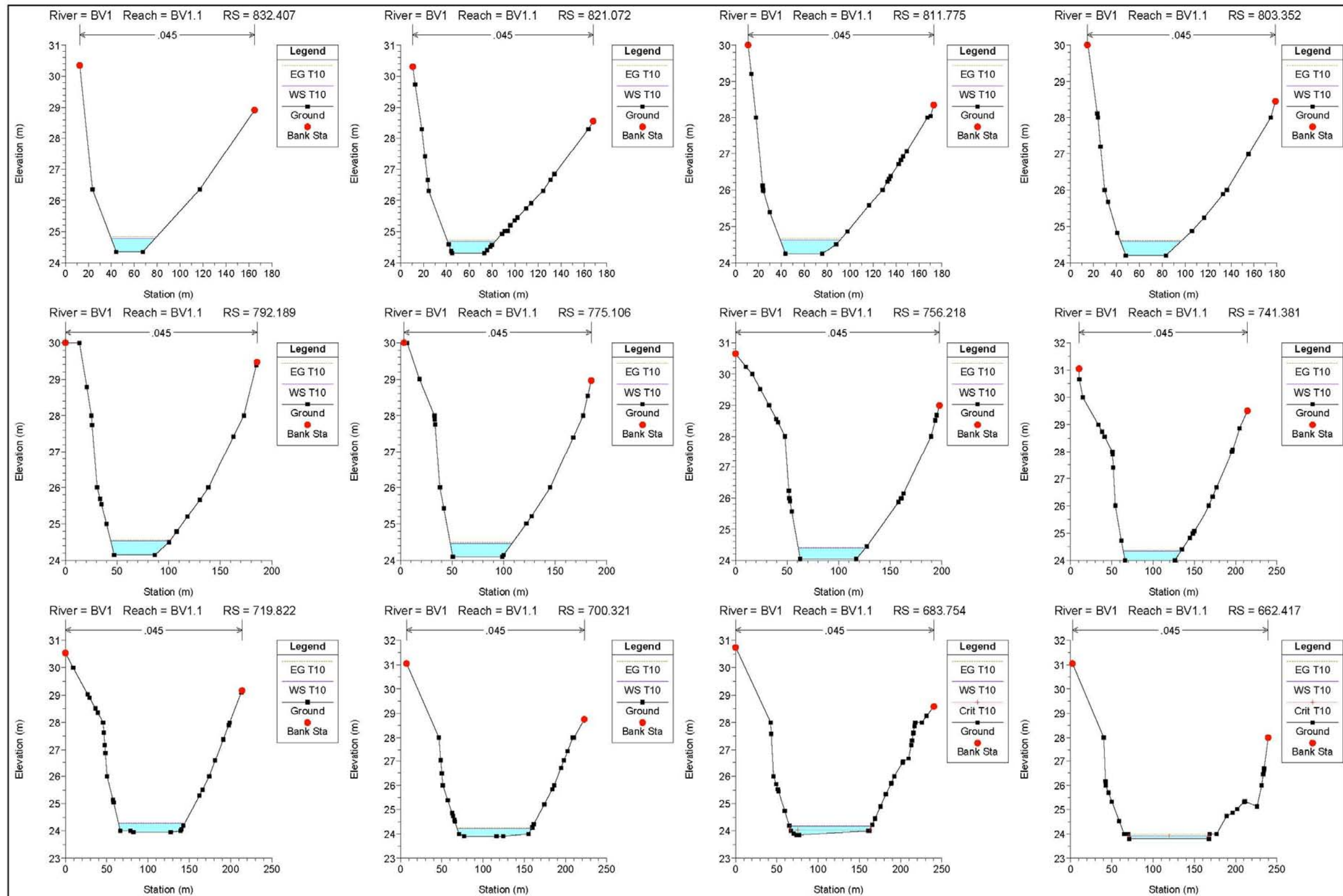
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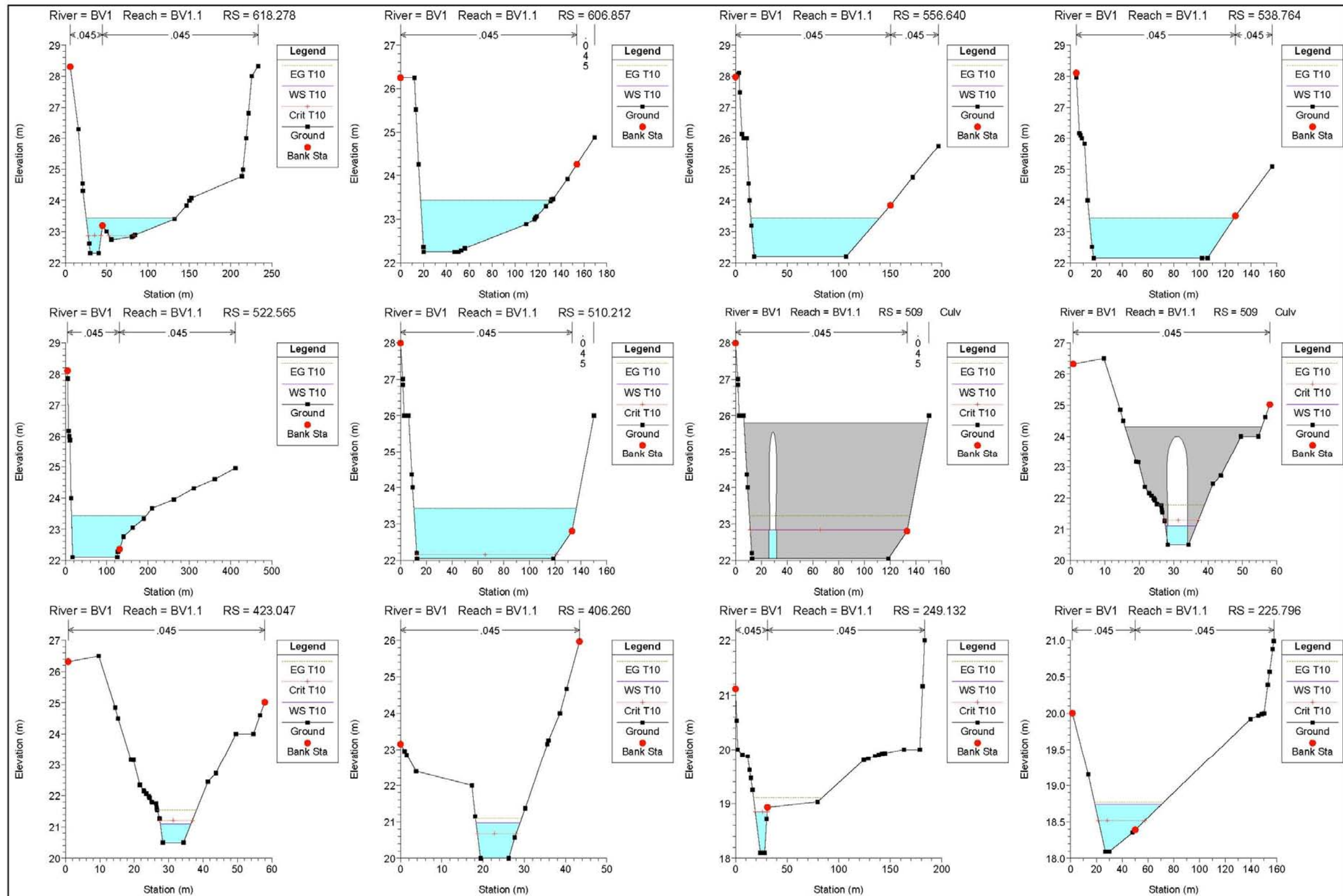
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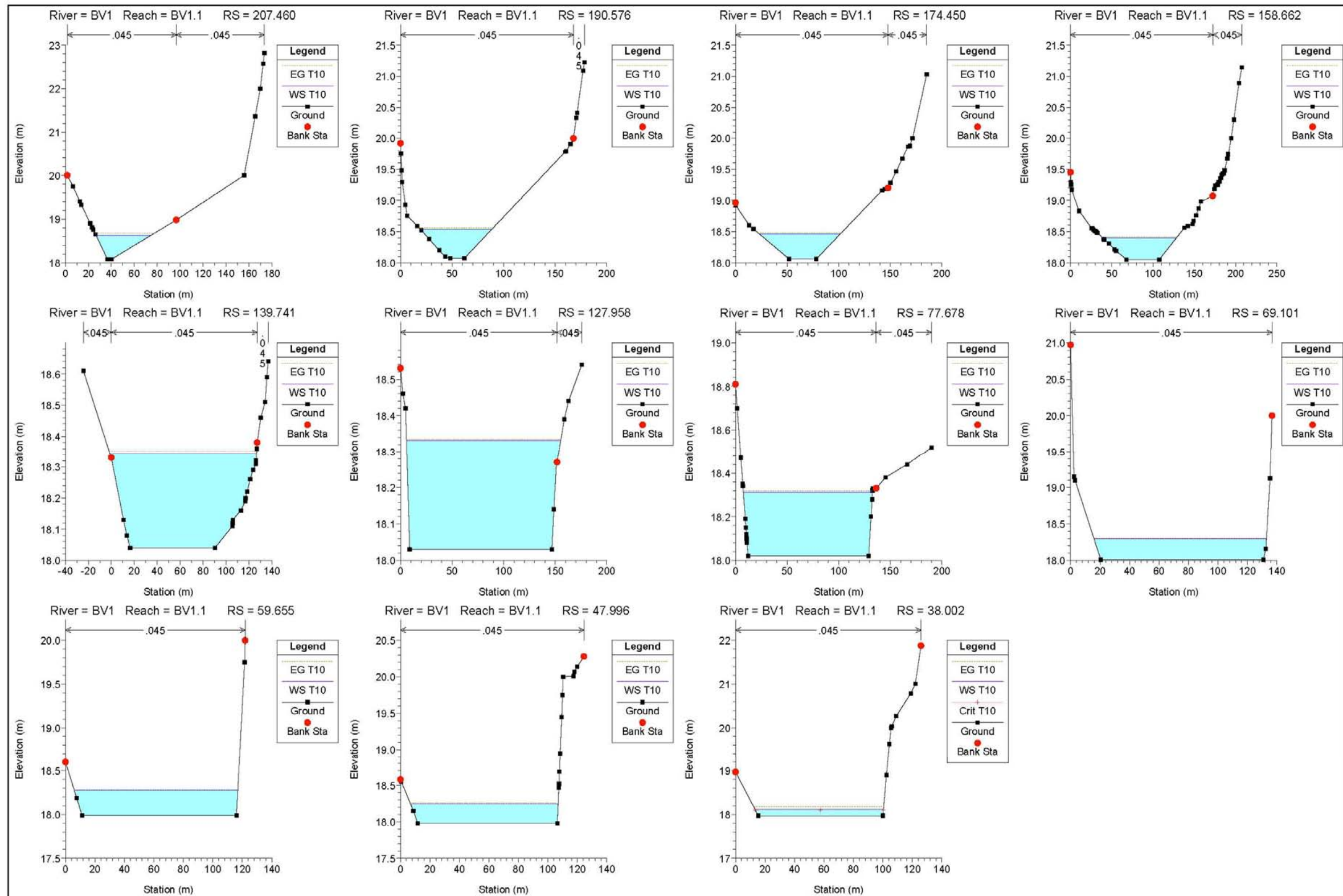
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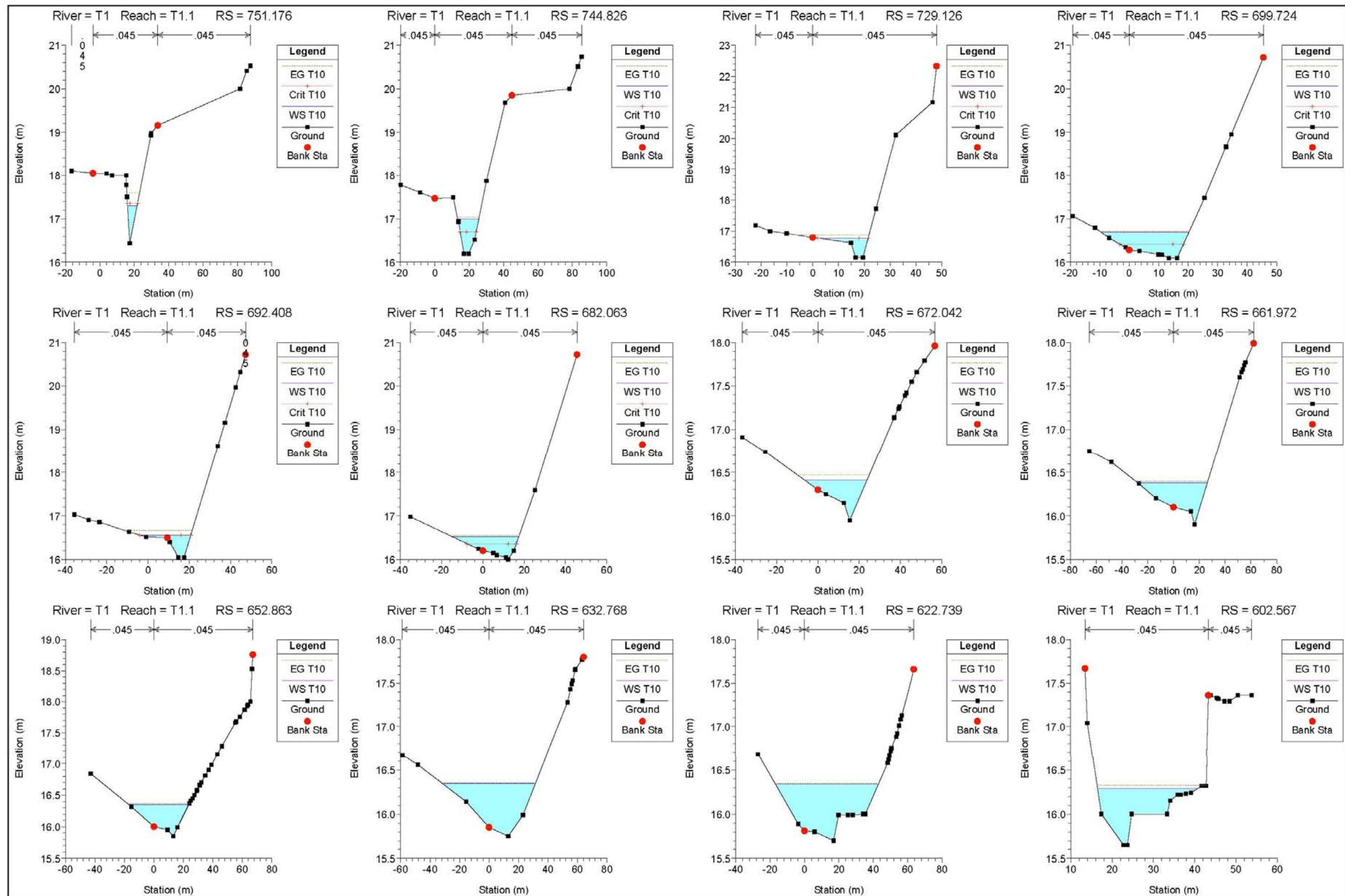


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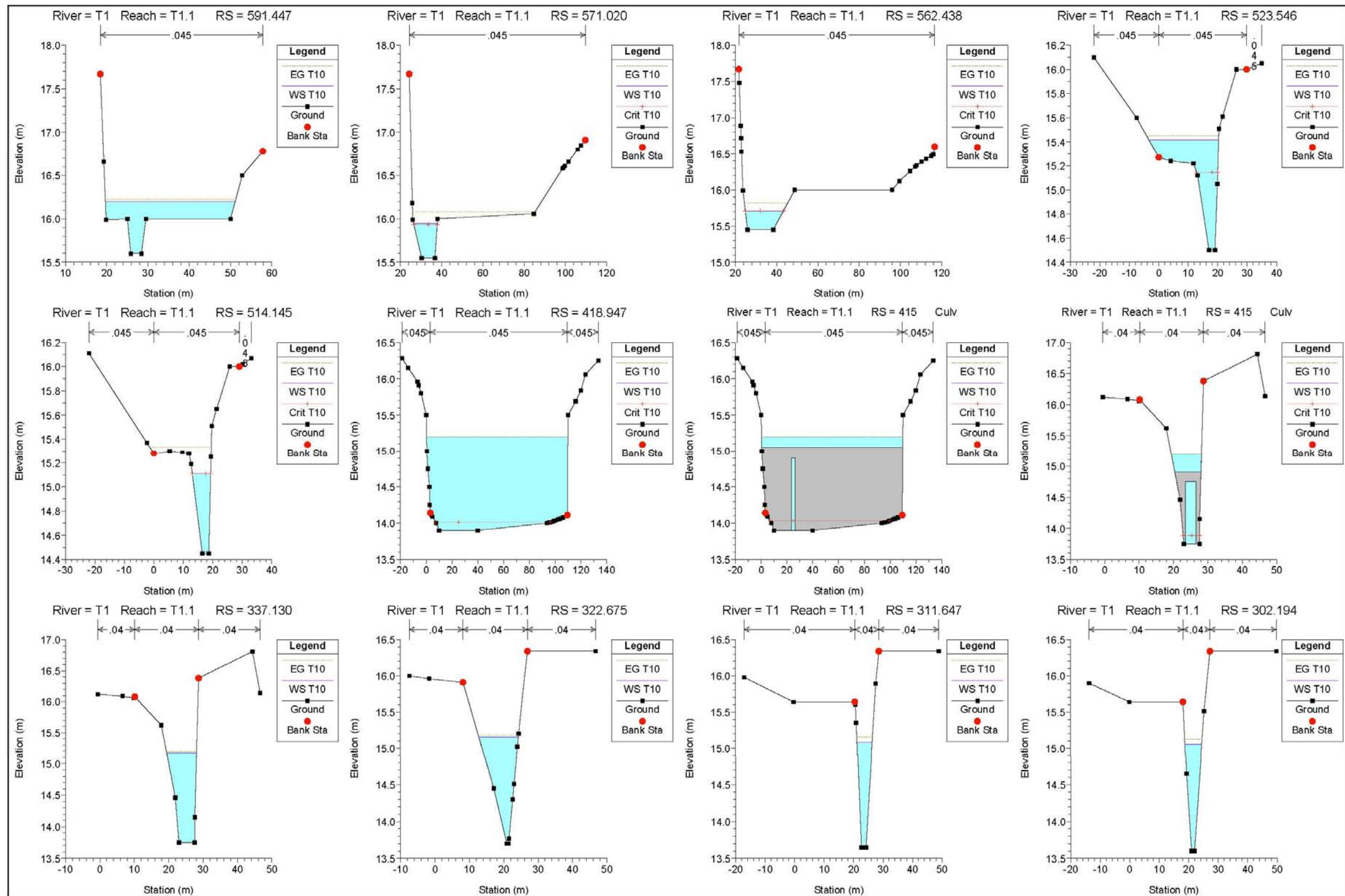


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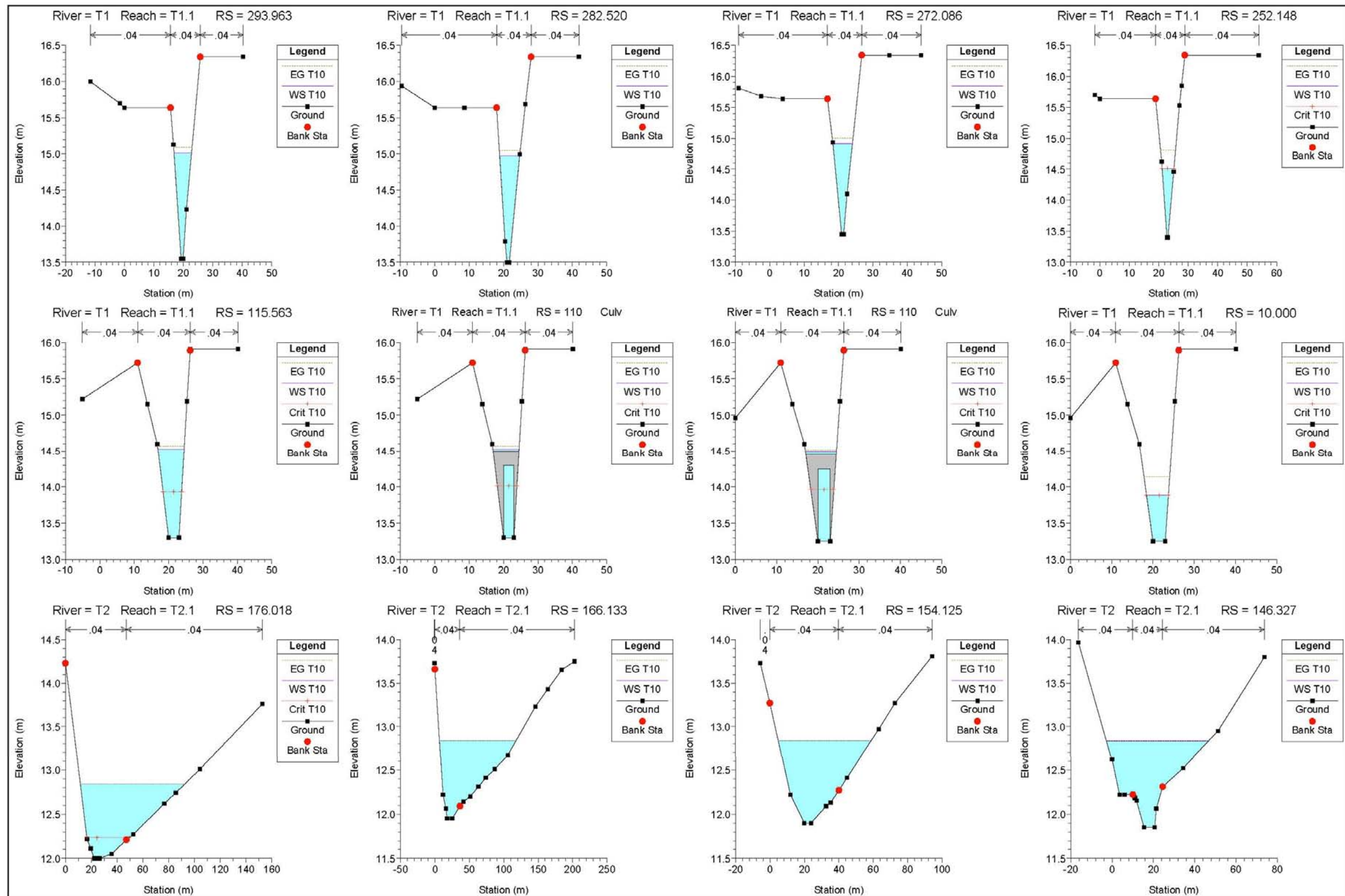
3.3.3.3.- Arroyo Trévez



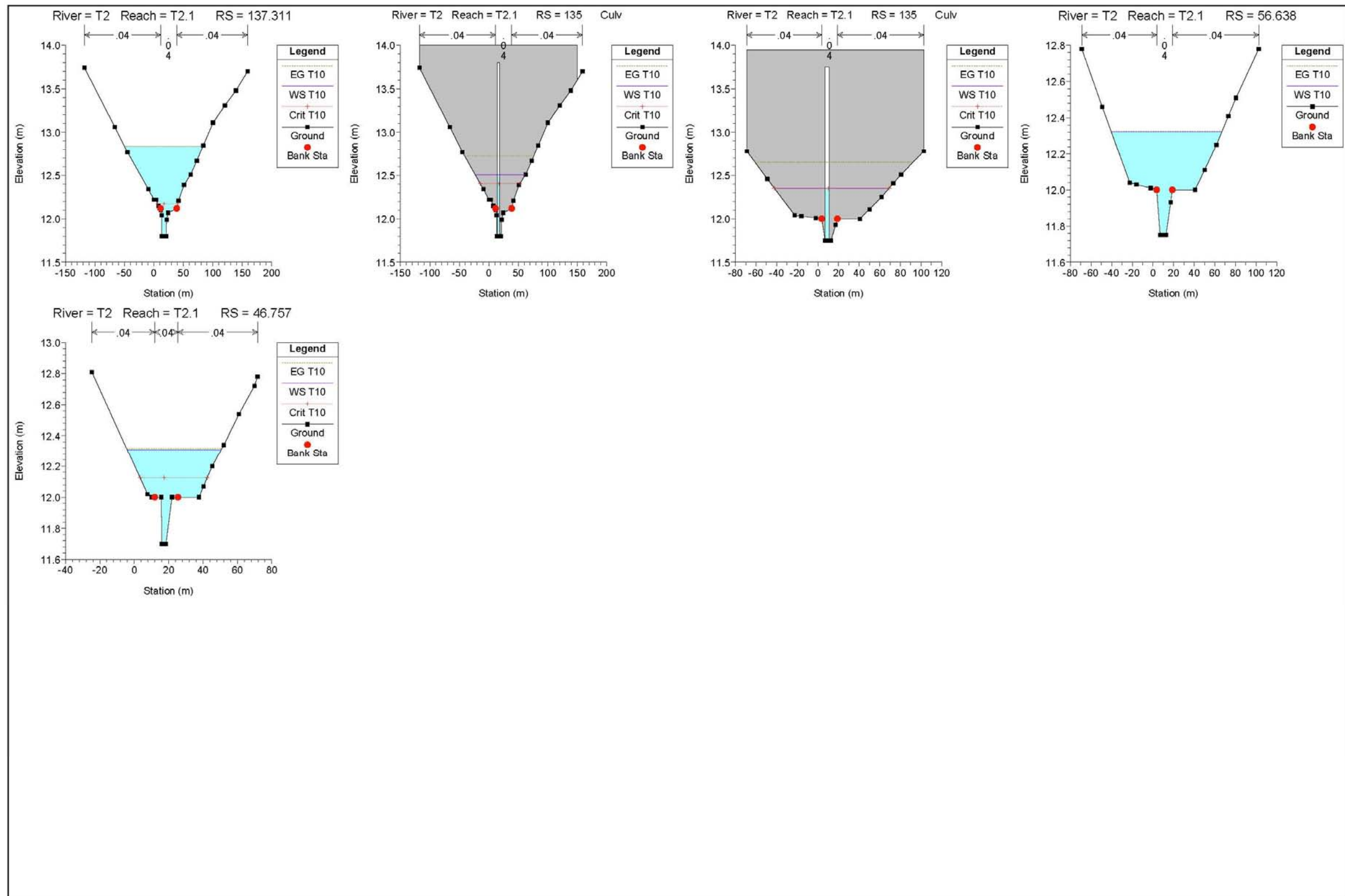
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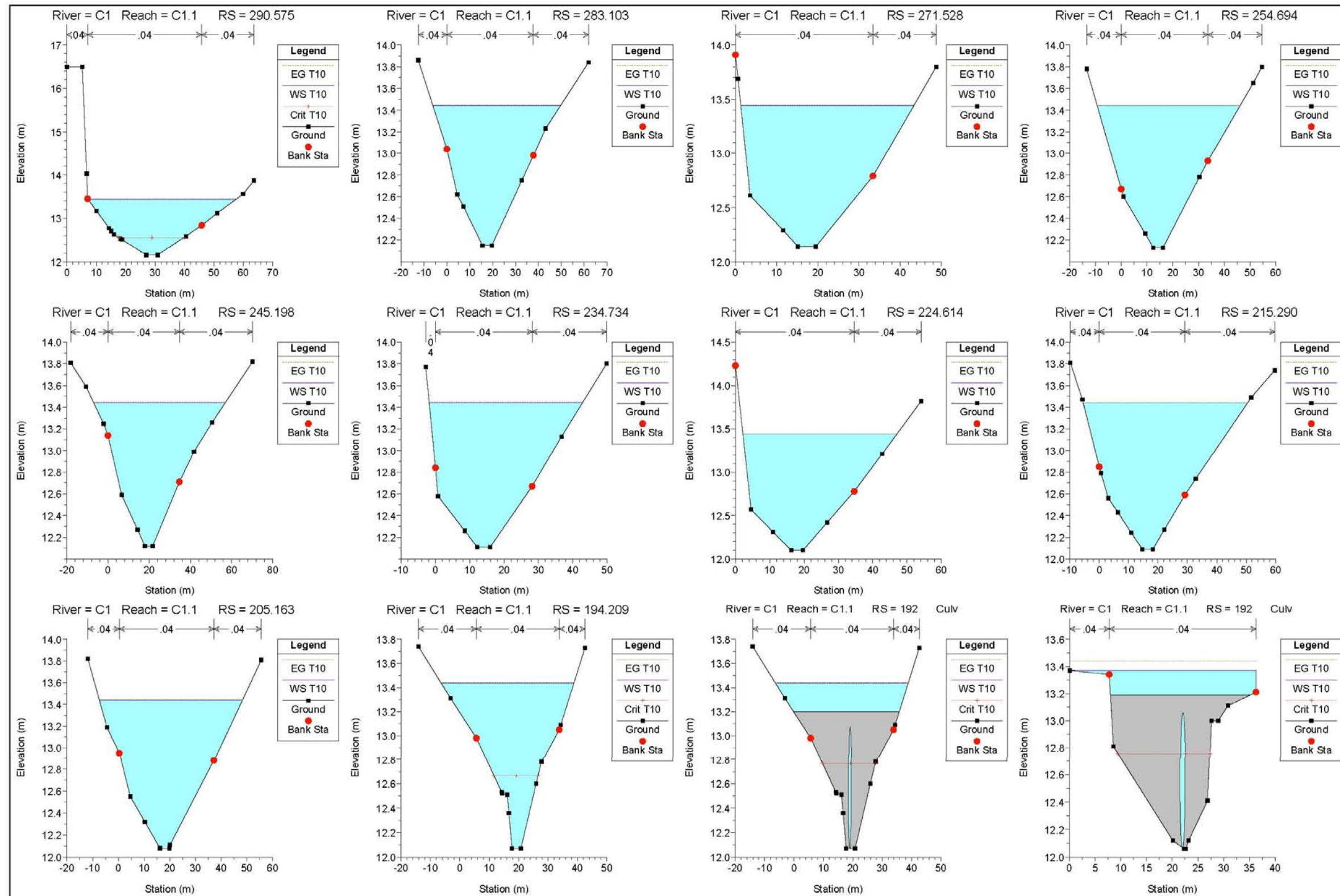
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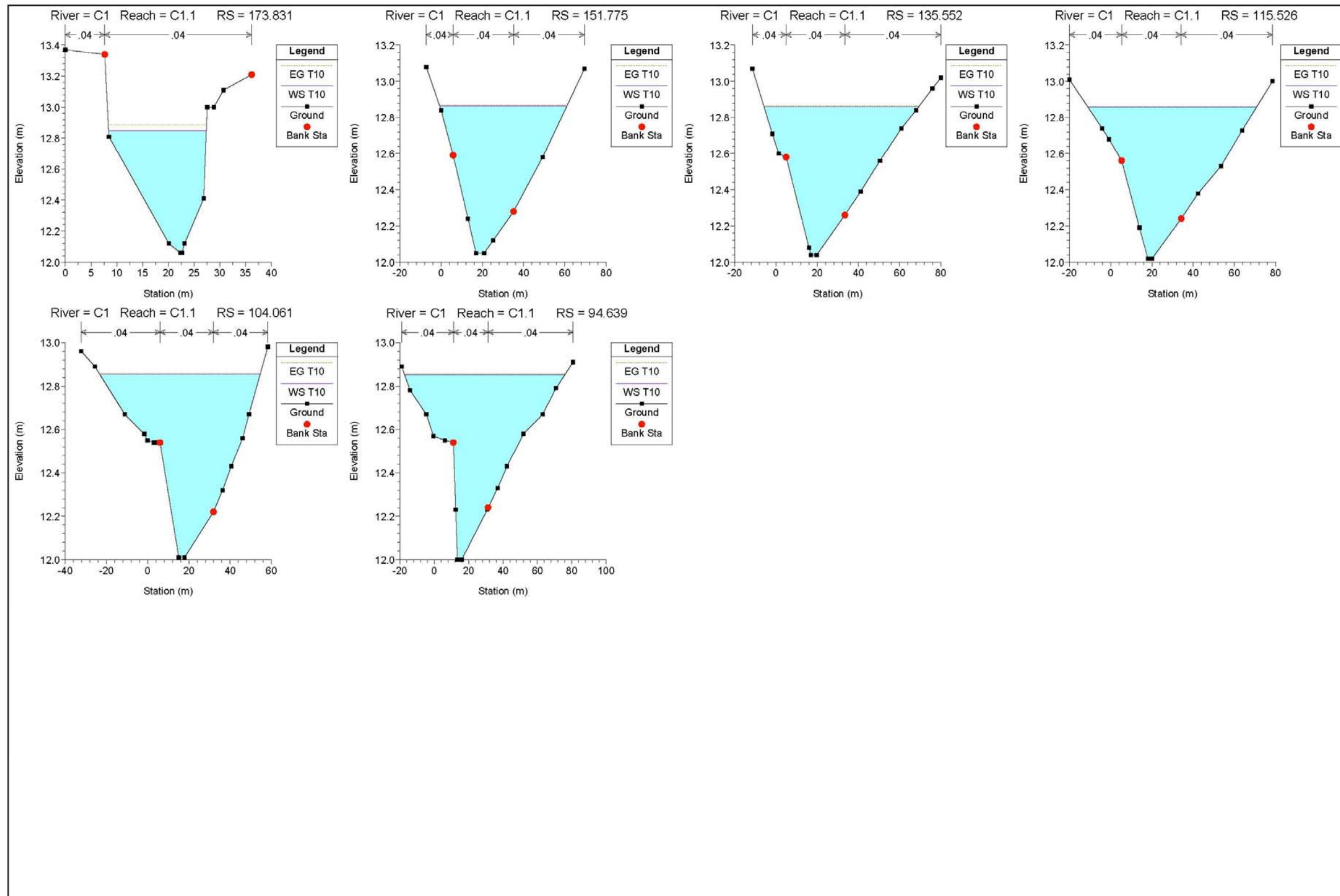
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3.3.3.4.- Arroyo Carambuco



DETERMINACION DE LOS LIMITES DEL DOMUNIO PUBLICO HIDRAULICO Y LAS ZONAS INUNDABLES EN LAS CUENCAS DEL ARROYO DE LAS CAÑAS Y ZONA TREVENEZ-BUENAVISTA, EN LOS DESARROLLOS PREVISTOS POR EL P.G.O.U. EN REVISION



- 3.3.4.- Tablas de resultados
 - 3.3.4.1.- Arroyo Boticario
 - 3.3.4.2.- Arroyo Buenavista
 - 3.3.4.3.- Arroyo Trévenez
 - 3.3.4.4.- Arroyo Calambuco

3.3.4.1.- Arroyo Boticario

HEC-RAS Plan: TREV River: B1 Reach: B1.1 Profile: T10

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
B1.1	3838.181	T10	4.46	170	170.21	170.24	170.36	0.050044	1.71	2.61	12.82	1.21
B1.1	3823.052	T10	4.46	169	169.22	169.28	169.43	0.076469	2.02	2.21	11.68	1.48
B1.1	3809.339	T10	4.46	168.2	168.34	168.36	168.44	0.06353	1.44	3.11	23.94	1.27
B1.1	3793.132	T10	4.46	167.3	167.6	167.69	167.89	0.07674	2.4	1.86	7.57	1.55
B1.1	3777.927	T10	4.46	166.5	166.67	166.7	166.8	0.061665	1.62	2.75	17.28	1.3
B1.1	3762.41	T10	4.46	164.19	164.47	164.64	165.1	0.224144	3.53	1.26	6.44	2.55
B1.1	3728.988	T10	4.46	161.01	161.51	161.67	162.01	0.114604	3.13	1.42	5.19	1.91
B1.1	3717.576	T10	4.46	160.5	160.72	160.77	160.93	0.068179	2.04	2.19	10.4	1.42
B1.1	3700.108	T10	4.46	160	160.22	160.22	160.33	0.033771	1.46	3.04	14.07	1.01
B1.1	3687.289	T10	4.46	159	159.2	159.3	159.55	0.131561	2.61	1.71	9.23	1.93
B1.1	3673.613	T10	4.46	158	158.26	158.3	158.45	0.049967	1.92	2.32	9.59	1.24
B1.1	3658.224	T10	4.46	157	157.3	157.38	157.58	0.063874	2.33	1.91	7.01	1.43
B1.1	3647.39	T10	4.46	156	156.16	156.26	156.51	0.167645	2.61	1.71	11.02	2.12
B1.1	3637.124	T10	4.46	155.35	155.78	155.78	155.9	0.033477	1.52	2.94	12.82	1.01
B1.1	3627.662	T10	4.46	154.5	154.69	154.83	155.2	0.22065	3.16	1.41	8.46	2.46
B1.1	3607.603	T10	4.46	154	154.25	154.25	154.38	0.032725	1.54	2.89	12.04	1.01
B1.1	3592.607	T10	4.46	152.61	153.1	153.23	153.52	0.111555	2.87	1.55	6.36	1.86
B1.1	3583.473	T10	4.46	152	152.44	152.32	152.51	0.010862	1.21	3.68	9.46	0.62
B1.1	3565.542	T10	4.46	151.8	152.07	152.07	152.2	0.030907	1.56	2.86	11.19	0.99
B1.1	3552.522	T10	4.46	151.6	151.97		152.01	0.006685	0.89	5	14.4	0.48
B1.1	3534.22	T10	4.46	151.45	151.82		151.87	0.008997	1	4.46	13.44	0.55
B1.1	3523.761	T10	4.46	151.2	151.54	151.54	151.7	0.03045	1.74	2.56	8.34	1.01
B1.1	3513.093	T10	4.46	150.8	151.05	151.1	151.26	0.057568	2.01	2.22	9.5	1.33
B1.1	3507.426	T10	4.46	150.4	150.64	150.71	150.89	0.073313	2.2	2.03	9.06	1.49
B1.1	3497.053	T10	4.46	150	150.24	150.24	150.36	0.033083	1.51	2.95	12.79	1.01
B1.1	3485.398	T10	4.46	149.05	149.33	149.42	149.65	0.132842	2.52	1.77	10.21	1.93
B1.1	3471.443	T10	4.46	148	148.31	148.36	148.54	0.050888	2.12	2.11	7.56	1.28
B1.1	3456.119	T10	4.46	146	146.17	146.35	146.89	0.320705	3.76	1.19	7.15	2.95
B1.1	3443.093	T10	4.46	145	145.38	145.42	145.61	0.039792	2.12	2.11	6.16	1.15
B1.1	3433.271	T10	4.46	144	144.21	144.38	144.82	0.207251	3.44	1.29	6.36	2.44
B1.1	3422.762	T10	4.46	143.23	143.52	143.56	143.74	0.05157	2.07	2.16	8.03	1.27
B1.1	3408.501	T10	4.46	142	142.23	142.35	142.63	0.125309	2.8	1.59	7.38	1.92
B1.1	3396.771	T10	4.46	141	141.27	141.34	141.53	0.06772	2.25	1.98	8.04	1.45
B1.1	3386.711	T10	4.46	140	140.19	140.3	140.57	0.141071	2.7	1.65	8.81	1.99
B1.1	3375.425	T10	4.46	139	139.29	139.35	139.54	0.059809	2.23	2	7.34	1.37
B1.1	3365.389	T10	4.46	138	138.24	138.37	138.68	0.12643	2.92	1.53	6.6	1.94
B1.1	3353.048	T10	4.46	136.79	137.49	137.55	137.77	0.044063	2.37	1.88	4.93	1.23
B1.1	3335.309	T10	4.46	136	136.22	136.32	136.57	0.115799	2.63	1.7	8.16	1.84
B1.1	3323.176	T10	4.46	135.3	135.54	135.56	135.69	0.044238	1.74	2.56	11.02	1.16
B1.1	3294.965	T10	4.46	134.5	134.64	134.76	135.12	0.354429	3.09	1.44	12.76	2.93
B1.1	3266.609	T10	4.46	133.7	134.01	134.01	134.16	0.031359	1.71	2.61	8.87	1.01

HEC-RAS Plan: TREV River: B1 Reach: B1.1 Profile: T10

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
B1.1	3252.202	T10	4.46	133	133.25	133.32	133.51	0.069374	2.24	2	8.3	1.45
B1.1	3241.18	T10	4.46	132.2	132.41	132.48	132.66	0.085389	2.21	2.02	10.05	1.58
B1.1	3224.347	T10	4.46	131.51	131.8	131.8	131.93	0.031917	1.62	2.76	10.44	1
B1.1	3213.552	T10	4.46	130.8	131	131.09	131.32	0.120629	2.49	1.79	9.77	1.85
B1.1	3198.892	T10	4.46	130	130.28	130.28	130.42	0.033469	1.66	2.69	10.19	1.03
B1.1	3186.247	T10	4.46	128.8	129.08	129.24	129.61	0.140796	3.22	1.38	5.65	2.08
B1.1	3174.04	T10	4.46	128	128.38	128.42	128.6	0.046692	2.11	2.12	7.06	1.23
B1.1	3162.82	T10	4.46	127.3	127.61	127.71	127.94	0.073107	2.55	1.75	6.12	1.53
B1.1	3145.916	T10	4.46	126.5	126.92	126.93	127.12	0.031732	1.98	2.26	6.2	1.05
B1.1	3127.117	T10	4.46	126	126.28	126.3	126.44	0.040472	1.81	2.46	9.33	1.13
B1.1	3111.919	T10	4.46	125.5	125.78	125.73	125.85	0.017294	1.21	3.67	13.41	0.74
B1.1	3093.007	T10	4.46	125	125.29	125.29	125.41	0.032646	1.55	2.87	11.86	1.01
B1.1	3073.637	T10	4.46	123.5	123.73	123.87	124.2	0.151566	3.02	1.48	7.07	2.11
B1.1	3061.733	T10	4.46	122	122.17	122.26	122.47	0.131125	2.42	1.84	11.05	1.9
B1.1	3051.76	T10	4.46	121	121.34	121.41	121.62	0.059628	2.33	1.91	6.67	1.39
B1.1	3039.99	T10	4.46	120	120.2	120.31	120.58	0.13963	2.73	1.63	8.49	1.99
B1.1	3031.746	T10	4.46	119.56	120.17	120.17	120.31	0.031138	1.62	2.76	10.23	0.99
B1.1	3020.684	T10	4.46	118	118.09	118.26	119.19	1.146437	4.66	0.96	11.03	5.04
B1.1	3007.605	T10	4.46	117	117.24	117.26	117.39	0.04078	1.71	2.61	10.79	1.11
B1.1	2994.891	T10	4.46	116	116.23	116.33	116.58	0.107447	2.61	1.71	7.79	1.78
B1.1	2989.357	T10	4.46	115	115.2	115.34	115.71	0.184083	3.15	1.41	7.17	2.27
B1.1	2981.882	T10	4.46	114	114.41	114.56	114.9	0.083922	3.11	1.43	3.97	1.65
B1.1	2971.785	T10	4.46	112.5	112.72	112.92	113.49	0.257574	3.89	1.15	5.39	2.69
B1.1	2963.482	T10	4.46	111.74	112.2	112.28	112.5	0.054382	2.42	1.85	5.67	1.35
B1.1	2957.437	T10	4.46	110	110.21	110.47	111.62	0.575953	5.26	0.85	4.75	3.97
B1.1	2950.774	T10	4.46	108.71	109.23	109.4	109.78	0.128152	3.28	1.36	5.02	2.01
B1.1	2942.011	T10	4.46	108.4	108.68	108.74	108.92	0.063399	2.21	2.02	8.05	1.41
B1.1	2935.443	T10	4.46	108	108.23	108.29	108.47	0.0763	2.17	2.06	9.76	1.5
B1.1	2923.587	T10	4.46	106	106.18	106.35	106.85	0.279919	3.63	1.23	7.01	2.76
B1.1	2913.6	T10	4.46	104	104.29	104.47	104.88	0.145372	3.4	1.31	4.97	2.12
B1.1	2901.015	T10	4.46	102.44	102.85	103	103.31	0.103837	3	1.49	5.39	1.82
B1.1	2887.375	T10	4.46	102.3	102.71	102.57	102.76	0.007912	1.01	4.4	11.82	0.53
B1.1	2878.392	T10	4.46	102.2	102.55		102.65	0.019332	1.42	3.14	9.98	0.81
B1.1	2869.054	T10	4.46	102	102.29	102.29	102.42	0.031419	1.62	2.75	10.28	1
B1.1	2861.244	T10	4.46	100.74	101.08	101.28	101.88	0.263201	3.97	1.12	5.38	2.77
B1.1	2852.951	T10	4.46	100.6	101.03	100.93	101.11	0.012217	1.25	3.58	9.71	0.65
B1.1	2843.603	T10	4.46	100.5	100.87		100.97	0.018472	1.43	3.13	9.49	0.79
B1.1	2835.375	T10	4.46	100.4	100.78		100.84	0.011085	1.13	3.94	11.61	0.62
B1.1	2823.126	T10	4.46	100.3	100.63		100.7	0.01263	1.13	3.96	12.98	0.65
B1.1	2815.161	T10	4.46	100.2	100.56		100.61	0.008797	0.98	4.56	14.09	0.55
B1.1	2804.896	T10	4.46	100.1	100.34	100.34	100.45	0.033646	1.47	3.03	13.87	1.01
B1.1	2794.93	T10	4.46	99.08	99.47	99.58	99.84	0.128093	2.69	1.66	8.31	1.93
B1.1	2781.755	T10	4.46	98	98.29	98.37	98.58	0.07173	2.39	1.87	7.25	1.5
B1.1	2772.235	T10	4.46	97.9	98.31	98.23	98.4	0.013545	1.31	3.4	9.24	0.69
B1.1	2762.09	T10	4.46	97.8	98.18		98.26	0.013446	1.28	3.48	9.68	0.68

HEC-RAS Plan: TREV River: B1 Reach: B1.1 Profile: T10

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
B1.1	2752.68	T10	4.46	97.7	98.11		98.16	0.007883	1.03	4.32	11.11	0.53
B1.1	2744.896	T10	4.46	97.6	97.9	97.9	98.04	0.031548	1.63	2.74	10.24	1.01
B1.1	2732.341	T10	4.46	96.7	96.96	97.08	97.36	0.109753	2.79	1.6	6.72	1.83
B1.1	2723.72	T10	4.46	95.8	96.01	96.11	96.35	0.119247	2.6	1.71	8.42	1.84
B1.1	2714.102	T10	4.46	94.9	95.1	95.17	95.34	0.08873	2.18	2.05	10.64	1.59
B1.1	2701.948	T10	4.46	94	94.45	94.25	94.49	0.004396	0.83	5.35	11.98	0.4
B1.1	2692.224	T10	4.46	93.8	94.26	94.21	94.4	0.018974	1.65	2.7	6.54	0.82
B1.1	2679.797	T10	4.46	93.6	93.94	93.94	94.11	0.030342	1.78	2.51	7.86	1.01
B1.1	2667.944	T10	4.46	93.4	93.6	93.66	93.82	0.079658	2.08	2.15	11.15	1.51
B1.1	2654.401	T10	4.46	93.2	93.5	93.45	93.58	0.017546	1.28	3.48	11.85	0.75
B1.1	2641.375	T10	4.46	93	93.43		93.46	0.004609	0.83	5.4	12.94	0.41
B1.1	2628.116	T10	4.46	92.8	93.28		93.37	0.011706	1.31	3.42	8.35	0.65
B1.1	2614.51	T10	4.46	92.6	92.96	92.96	93.12	0.030177	1.79	2.49	7.73	1.01
B1.1	2599.654	T10	4.46	92.4	92.73	92.65	92.79	0.012511	1.12	3.97	12.94	0.65
B1.1	2590.033	T10	4.46	92.2	92.47	92.47	92.6	0.031964	1.6	2.78	10.71	1
B1.1	2582.647	T10	4.46	92	92.24	92.24	92.36	0.033636	1.53	2.91	12.47	1.01
B1.1	2569.581	T10	4.46	91.2	91.52	91.59	91.76	0.06297	2.15	2.08	8.58	1.39
B1.1	2558.589	T10	4.46	90.8	91.08	91.09	91.22	0.035395	1.65	2.7	10.76	1.05
B1.1	2549.532	T10	4.46	90.4	90.52	90.57	90.69	0.11242	1.82	2.45	20.22	1.67
B1.1	2535.86	T10	4.46	90	90.25	90.22	90.33	0.02272	1.28	3.49	14.65	0.84
B1.1	2523.098	T10	4.46	89.6	89.85	89.85	89.97	0.032776	1.54	2.89	12.06	1.01
B1.1	2513.315	T10	4.46	89	89.17	89.25	89.43	0.113861	2.26	1.98	11.86	1.76
B1.1	2503.633	T10	4.46	88.5	88.69	88.69	88.79	0.038928	1.41	3.16	17.05	1.05
B1.1	2449.552	T10	4.46	88	88.34	88.25	88.4	0.011973	1.1	4.06	13.23	0.63
B1.1	2431.328	T10	4.46	87.8	87.96	87.96	88.04	0.037031	1.24	3.59	22.81	1
B1.1	2419.233	T10	4.46	86	86.13	86.3	86.88	0.45314	3.82	1.17	8.9	3.37
B1.1	2405.601	T10	4.46	84.99	85.49	85.5	85.68	0.029939	1.88	2.37	6.67	1.01
B1.1	2392.982	T10	4.46	84	84.22	84.39	84.84	0.207429	3.49	1.28	6.19	2.45
B1.1	2382.128	T10	4.46	83.75	84.15	84.13	84.31	0.025605	1.79	2.49	6.68	0.93
B1.1	2368.819	T10	4.46	83.5	83.79	83.79	83.93	0.031707	1.65	2.7	9.76	1
B1.1	2361.153	T10	4.46	83.3	83.59	83.57	83.7	0.024074	1.46	3.05	10.77	0.88
B1.1	2349.372	T10	4.46	83.05	83.37		83.46	0.017048	1.31	3.41	10.91	0.75
B1.1	2335.636	T10	4.46	82.8	83.13		83.22	0.016869	1.33	3.35	10.41	0.75
B1.1	2323.632	T10	4.46	82.6	82.87	82.85	82.97	0.026409	1.42	3.15	12.76	0.91
B1.1	2307.144	T10	4.46	82.2	82.5	82.46	82.59	0.019546	1.32	3.38	12.06	0.8
B1.1	2293.349	T10	4.46	81.9	82.14	82.14	82.25	0.033492	1.48	3.02	13.73	1.01
B1.1	2275.141	T10	4.46	81.2	81.41	81.53	81.87	0.231882	3.03	1.47	9.73	2.49
B1.1	2263.594	T10	4.46	80.6	80.82	80.88	81.03	0.077947	2.05	2.18	11.45	1.5
B1.1	2251.805	T10	4.46	79.7	80.01	79.93	80.07	0.011297	1.05	4.23	14.04	0.61
B1.1	2242.173	T10	4.46	79.6	79.8	79.8	79.89	0.035067	1.34	3.32	18.02	1
B1.1	2233.711	T10	4.46	78.88	79.3	79.35	79.5	0.06003	2	2.23	9.97	1.35
B1.1	2224.153	T10	4.46	78	78.24	78.36	78.65	0.137385	2.83	1.57	7.73	2
B1.1	2215.827	T10	4.46	77.7	77.94	78.01	78.2	0.078274	2.27	1.96	8.75	1.53
B1.1	2205.373	T10	4.46	77.4	77.71	77.69	77.84	0.026499	1.59	2.81	9.44	0.93
B1.1	2193.321	T10	4.46	77.1	77.37	77.37	77.5	0.032166	1.6	2.79	10.8	1.01

HEC-RAS Plan: TREV River: B1 Reach: B1.1 Profile: T10

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
B1.1	2185.699	T10	4.46	76.8	77	77.04	77.17	0.059828	1.83	2.44	12.4	1.31
B1.1	2172.632	T10	4.46	76.5	76.72	76.72	76.83	0.033973	1.46	3.05	13.97	1
B1.1	2164.999	T10	4.46	76	76.34	76.37	76.53	0.043318	1.92	2.33	8.65	1.18
B1.1	2156.747	T10	4.46	75.7	75.89	75.94	76.08	0.071055	1.93	2.32	12.36	1.42
B1.1	2149.121	T10	4.46	75.4	75.58	75.67	75.87	0.117725	2.39	1.87	10.52	1.81
B1.1	2140.802	T10	4.46	75.1	75.38	75.35	75.47	0.020277	1.33	3.36	12.12	0.81
B1.1	2130.399	T10	4.46	74.9	75.26		75.32	0.009902	1.08	4.11	11.52	0.58
B1.1	2119.054	T10	4.46	74.6	75.27		75.28	0.001095	0.53	8.43	13.18	0.21
B1.1	2105.952	T10	4.46	74.4	75.05	75.05	75.22	0.029534	1.85	2.41	6.99	1.01
B1.1	2094.92	T10	4.46	74	74.27	74.39	74.65	0.106021	2.7	1.65	7.06	1.79
B1.1	2084.707	T10	4.46	73.8	74.2	74.17	74.33	0.023175	1.61	2.77	8.19	0.88
B1.1	2075.887	T10	4.46	73.6	73.96	73.95	74.1	0.02804	1.69	2.64	8.33	0.96
B1.1	2066.266	T10	4.46	73.4	73.68	73.68	73.81	0.031902	1.62	2.75	10.38	1.01
B1.1	2056.058	T10	4.46	73.2	73.37	73.38	73.47	0.048119	1.45	3.08	18.86	1.15
B1.1	2043.892	T10	4.46	73	73.25	73.16	73.28	0.007888	0.78	5.74	22.94	0.5
B1.1	2025.61	T10	4.46	72.8	73		73.06	0.020182	1.07	4.16	20.83	0.77
B1.1	2013.233	T10	4.46	72.6	72.83	72.76	72.87	0.01149	0.89	5.02	21.79	0.59
B1.1	2001.179	T10	4.46	72.4	72.56	72.56	72.64	0.037315	1.25	3.56	22.38	1
B1.1	1989.718	T10	4.46	72	72.57	72.19	72.58	0.000916	0.45	10.01	17.75	0.19
B1.1	1980.395	T10	4.46	71.8	72.35	72.35	72.54	0.029288	1.9	2.35	6.46	1.01
B1.1	1962.098	T10	4.46	71.6	71.83	71.85	71.98	0.044602	1.72	2.6	11.6	1.16
B1.1	1951.548	T10	4.46	71.4	71.66	71.62	71.74	0.018946	1.22	3.66	14.24	0.77
B1.1	1939.122	T10	4.46	71.2	71.41		71.48	0.022847	1.16	3.85	18.76	0.82
B1.1	1929.732	T10	4.46	71	71.19		71.26	0.023921	1.13	3.94	20.7	0.83
B1.1	1920.016	T10	4.46	70.8	71.03		71.08	0.013659	0.97	4.61	20.03	0.64
B1.1	1897.393	T10	4.46	70.33	70.72	70.72	70.86	0.03127	1.65	2.7	9.85	1.01
B1.1	1890.429	T10	4.46	70	70.21	70.3	70.49	0.100912	2.33	1.92	10.04	1.7
B1.1	1879.453	T10	4.46	68	68.28	68.47	68.95	0.192346	3.64	1.23	5.27	2.41
B1.1	1868.057	T10	4.46	66.36	66.84	67	67.34	0.102264	3.13	1.42	4.71	1.82
B1.1	1856.737	T10	4.46	64	64.2	64.42	65.19	0.395486	4.41	1.01	5.57	3.31
B1.1	1848.396	T10	4.46	62.11	62.58	62.78	63.25	0.151964	3.65	1.22	4.32	2.19
B1.1	1843.42	T10	4.46	62	62.22	62.31	62.53	0.104953	2.49	1.79	8.6	1.75
B1.1	1835.884	T10	4.46	60.76	61.3	61.45	61.75	0.102895	2.95	1.51	5.55	1.81
B1.1	1828.276	T10	4.46	58.51	59.01	59.31	60.33	0.335931	5.08	0.88	3.37	3.18
B1.1	1812.88	T10	4.46	54	54.17	54.36	54.96	0.341335	3.92	1.14	6.66	3.03
B1.1	1807.769	T10	4.46	53.7	53.98	54.04	54.22	0.05573	2.15	2.07	7.64	1.32
B1.1	1799.276	T10	4.46	53.3	53.62	53.64	53.81	0.038782	1.95	2.29	7.34	1.11
B1.1	1790.07	T10	4.46	52.8	53.34	53.28	53.5	0.019555	1.79	2.49	5.29	0.83
B1.1	1779.099	T10	4.46	52.6	53.04	53.03	53.24	0.02873	1.98	2.25	5.38	0.98
B1.1	1769.323	T10	4.46	52.4	52.88	52.81	53	0.016959	1.57	2.83	6.83	0.78
B1.1	1758.987	T10	4.46	52.2	52.6	52.6	52.77	0.02965	1.86	2.4	6.92	1.01
B1.1	1749.096	T10	4.46	52	52.42	52.29	52.49	0.009111	1.11	4.03	10.47	0.57
B1.1	1741.677	T10	4.46	51.9	52.38		52.41	0.005329	0.88	5.08	12.49	0.44
B1.1	1731.003	T10	4.46	51.8	52.23		52.33	0.01521	1.38	3.23	8.88	0.73
B1.1	1719.468	T10	4.46	51.6	51.98	51.95	52.11	0.022858	1.64	2.72	7.71	0.88

HEC-RAS Plan: TREV River: B1 Reach: B1.1 Profile: T10

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
B1.1	1709.456	T10	4.46	51.4	51.7	51.7	51.85	0.03137	1.69	2.63	9.1	1.01
B1.1	1701.943	T10	4.46	51.2	51.51	51.47	51.61	0.018509	1.35	3.3	10.74	0.78
B1.1	1692.8	T10	4.46	51	51.28	51.27	51.4	0.027631	1.52	2.93	10.92	0.94
B1.1	1682.777	T10	4.46	50.8	51.21		51.26	0.007033	0.98	4.56	11.69	0.5
B1.1	1672.533	T10	4.46	50.7	51.13		51.18	0.007734	1.01	4.41	11.65	0.52
B1.1	1659.837	T10	4.46	50.6	50.87	50.87	51	0.031236	1.56	2.85	11.11	0.99
B1.1	1652.404	T10	4.46	50.4	50.76		50.83	0.013899	1.15	3.86	13.09	0.68
B1.1	1640.956	T10	4.46	50.3	50.61		50.67	0.013853	1.05	4.26	16.69	0.66
B1.1	1632.217	T10	4.46	50.2	50.53		50.57	0.008524	0.92	4.85	15.99	0.53
B1.1	1621.668	T10	4.46	50.1	50.41		50.46	0.01221	1.04	4.3	15.55	0.63
B1.1	1613.213	T10	4.46	50	50.39		50.41	0.002698	0.58	7.69	21.54	0.31
B1.1	1602.16	T10	4.46	49.9	50.37		50.38	0.001864	0.55	8.16	18.81	0.27
B1.1	1591.875	T10	4.46	49.7	50.17	50.17	50.32	0.024509	1.71	2.6	8.91	1.01
B1.1	1582.289	T10	4.46	49.5	49.77	49.83	49.99	0.048065	2.12	2.11	8.69	1.37
B1.1	1571.376	T10	4.46	49.2	49.46	49.52	49.68	0.046533	2.07	2.15	8.93	1.35
B1.1	1559.726	T10	4.46	49	49.31	49.3	49.44	0.02327	1.62	2.75	9.75	0.98
B1.1	1550.831	T10	4.46	48.8	49.09	49.09	49.23	0.025041	1.63	2.73	10.21	1.01
B1.1	1541.125	T10	4.46	48.6	48.8	48.82	48.93	0.036862	1.61	2.78	14.21	1.16
B1.1	1531.494	T10	4.46	48.4	48.52	48.58	48.73	0.115282	2.04	2.18	18.41	1.89
B1.1	1522.839	T10	4.46	48.2	48.53	48.39	48.56	0.00411	0.73	6.08	19.52	0.42
B1.1	1510.753	T10	4.46	47.8	48.27	48.27	48.45	0.022949	1.87	2.38	6.72	1
B1.1	1498.283	T10	4.46	47.5	47.7	47.78	47.97	0.072723	2.27	1.96	9.91	1.63
B1.1	1483.049	T10	4.46	47.2	47.49	47.48	47.62	0.021753	1.57	2.85	10.05	0.94
B1.1	1470.351	T10	4.46	46.9	47.18	47.18	47.32	0.025233	1.65	2.71	9.92	1.01
B1.1	1461.097	T10	4.46	46.6	46.85	46.88	47.03	0.038469	1.87	2.38	9.92	1.22
B1.1	1453.441	T10	4.46	46.3	46.53	46.57	46.71	0.043306	1.9	2.35	10.48	1.28
B1.1	1441.266	T10	4.46	45.9	46.16	46.23	46.42	0.052707	2.24	1.99	7.98	1.44
B1.1	1429.359	T10	4.46	45.5	45.98	45.98	46.19	0.022971	2.02	2.21	5.35	1.01
B1.1	1412.832	T10	4.46	45	45.22	45.32	45.54	0.077998	2.48	1.8	8.41	1.71
B1.1	1399.038	T10	4.46	44.6	44.93	44.9	45.05	0.01905	1.54	2.9	9.62	0.89
B1.1	1385.737	T10	4.46	44.3	44.64	44.63	44.78	0.021151	1.63	2.73	8.95	0.94
B1.1	1370.256	T10	4.46	44	44.36		44.48	0.016842	1.54	2.91	8.72	0.85
B1.1	1346.839	T10	4.46	43.6	44.03	44.03	44.21	0.023147	1.92	2.32	6.24	1.01
B1.1	1338.451	T10	4.46	43.2	43.47	43.59	43.87	0.077959	2.78	1.61	6.23	1.74
B1.1	1327.797	T10	4.46	42.8	43.2	43.22	43.42	0.027651	2.05	2.18	6.06	1.09
B1.1	1319.884	T10	4.46	42.4	42.67	42.79	43.06	0.077702	2.75	1.62	6.35	1.74
B1.1	1309.318	T10	4.46	42	42.34	42.36	42.53	0.028903	1.94	2.3	7.19	1.09
B1.1	1299.137	T10	4.46	41.6	42.05	42.09	42.31	0.030121	2.24	1.99	5.13	1.14
B1.1	1288.038	T10	4.46	41.2	41.45	41.56	41.8	0.073778	2.61	1.71	6.94	1.68
B1.1	1277.942	T10	4.46	40.8	41.09	41.12	41.28	0.032559	1.91	2.34	8.21	1.14
B1.1	1267.517	T10	4.46	40.4	40.83	40.67	40.88	0.005432	0.99	4.49	11.08	0.5
B1.1	1258.763	T10	4.46	40	40.81		40.84	0.002949	0.81	5.5	11.79	0.38
B1.1	1247.53	T10	4.46	39.73	40.78	40.26	40.81	0.001809	0.75	5.95	9.45	0.3
B1.1	1245		Culvert									
B1.1	1208.448	T10	4.46	39.5	39.99	40.04	40.27	0.032622	2.35	1.9	4.73	0.3

HEC-RAS Plan: TREV River: B1 Reach: B1.1 Profile: T10

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
B1.1	1197.856	T10	4.46	39.3	39.81	39.77	39.98	0.01773	1.86	2.39	5.35	0.89
B1.1	1188.575	T10	4.46	39.15	39.58	39.58	39.79	0.023818	2.01	2.21	5.41	1.01
B1.1	1177.841	T10	4.46	38.85	39.23	39.28	39.48	0.034209	2.23	2	5.7	1.2
B1.1	1168.19	T10	4.46	38.7	39.2	39.12	39.33	0.012569	1.58	2.82	6.36	0.76
B1.1	1157.204	T10	4.46	38.55	39.03		39.17	0.015427	1.7	2.62	6.16	0.83
B1.1	1145.79	T10	4.46	38.4	38.91		39.02	0.010786	1.47	3.04	6.92	0.71
B1.1	1134.631	T10	4.46	38.2	38.89		38.94	0.003235	0.96	4.65	8.02	0.4
B1.1	1118.821	T10	4.46	38	38.88		38.9	0.00123	0.69	6.51	8.96	0.26
B1.1	1099.847	T10	4.46	37.8	38.87	38.13	38.88	0.000466	0.48	9.25	10.2	0.16
B1.1	1095		Culvert									
B1.1	1040.167	T10	4.46	37.5	37.96	37.96	38.17	0.023165	2.03	2.2	5.24	1
B1.1	1018.053	T10	4.46	37	37.44	37.38	37.57	0.014631	1.6	2.78	6.93	0.81
B1.1	999.146	T10	4.46	36.7	37.1	37.08	37.25	0.01914	1.73	2.58	7.03	0.91
B1.1	978.893	T10	4.46	36.35	36.74	36.71	36.88	0.017961	1.64	2.72	7.72	0.88
B1.1	959.617	T10	4.46	36	36.32	36.32	36.48	0.02429	1.73	2.58	8.61	1.01
B1.1	939.499	T10	4.46	35	35.42	35.52	35.79	0.047962	2.67	1.67	4.65	1.42
B1.1	918.682	T10	4.46	34.5	34.88	34.89	35.05	0.02458	1.79	2.5	7.96	1.02
B1.1	898.383	T10	4.46	34	34.27	34.3	34.45	0.035594	1.86	2.4	9.62	1.18
B1.1	877.086	T10	4.46	32	32.22	32.41	32.91	0.191992	3.68	1.21	6.13	2.64
B1.1	839.357	T10	4.46	30	30.26	30.36	30.59	0.073066	2.57	1.73	7.22	1.68
B1.1	823.459	T10	4.46	28	29.03	28.56	29.08	0.002552	0.99	4.5	5.72	0.36
B1.1	820		Culvert									
B1.1	769.646	T10	4.46	26	26.37	26.49	26.78	0.059248	2.82	1.58	4.77	0.36
B1.1	750.091	T10	4.46	25.6	26.02	26.01	26.2	0.021204	1.87	2.39	6.23	0.96
B1.1	728.03	T10	4.46	25.2	25.53	25.53	25.69	0.024183	1.77	2.52	7.98	1.01
B1.1	717.495	T10	4.46	24.8	25.04	25.12	25.31	0.05876	2.27	1.96	8.33	1.5
B1.1	703.033	T10	4.46	24.4	25.05	24.83	25.12	0.005503	1.18	3.79	7.15	0.52
B1.1	692.897	T10	4.46	24	25.07	24.39	25.08	0.000754	0.6	7.49	8.59	0.2
B1.1	690		Culvert									
B1.1	647.023	T10	4.46	23.6	23.94	23.94	24.1	0.024186	1.77	2.52	7.98	1.01
B1.1	629.017	T10	4.46	23.2	23.55	23.51	23.66	0.016466	1.5	2.98	9.13	0.84
B1.1	607.583	T10	4.46	22.8	23.09	23.09	23.23	0.024975	1.66	2.69	9.71	1.01
B1.1	589.103	T10	4.46	22.4	22.96	22.68	22.99	0.002394	0.76	5.86	11.56	0.34
B1.1	567.552	T10	4.46	22	22.76		22.89	0.00958	1.56	2.86	5.24	0.67
B1.1	548.732	T10	4.46	21.85	22.57		22.7	0.009836	1.6	2.79	4.92	0.68
B1.1	528.263	T10	4.46	21.7	22.46		22.54	0.005404	1.27	3.53	5.66	0.51
B1.1	507.817	T10	4.46	21.55	22.33		22.43	0.006091	1.36	3.28	4.94	0.53
B1.1	487.532	T10	4.46	21.4	22.15		22.28	0.008485	1.56	2.86	4.41	0.62
B1.1	473.356	T10	4.46	21.3	22.15	21.72	22.19	0.002607	0.97	4.61	5.81	0.35
B1.1	470		Culvert									
B1.1	381.913	T10	4.46	21.1	21.74		21.79	0.003878	1.03	4.31	7.26	0.43
B1.1	369.879	T10	4.46	20.95	21.74		21.76	0.000932	0.67	6.67	9.38	0.25
B1.1	353.603	T10	4.46	20.8	21.74		21.75	0.000527	0.56	7.99	9.24	0.19
B1.1	337.512	T10	4.46	20.8	21.72		21.74	0.000645	0.61	7.36	8.82	0.21
B1.1	322.625	T10	4.46	20.65	21.73	20.91	21.73	0.000133	0.29	15.39	18.42	0.1

HEC-RAS Plan: TREV River: B1 Reach: B1.1 Profile: T10

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
B1.1	320		Culvert									
B1.1	291.179	T10	4.46	20.5	21.16	21	21.26	0.006251	1.4	3.19	6.05	0.61
B1.1	271.904	T10	4.46	20.35	20.85	20.85	21.07	0.017179	2.03	2.2	5.25	1
B1.1	259.842	T10	4.46	20.15	20.94	20.42	20.95	0.0005	0.5	8.93	12.43	0.19
B1.1	242.15	T10	4.46	20.05	20.94		20.95	0.000303	0.37	12.22	19.3	0.15
B1.1	236.197	T10	4.46	19.9	20.94	20.31	20.95	0.000395	0.48	9.83	14.63	0.17
B1.1	230		Culvert									
B1.1	112.254	T10	4.46	19.13	19.68	19.68	19.92	0.018029	2.14	2.08	4.52	1.01
B1.1	105.176	T10	4.46	18.7	18.94	19.12	19.6	0.139157	3.6	1.24	6.27	2.58
B1.1	94.534	T10	4.46	18.35	19.07	18.77	19.11	0.002216	0.84	5.3	10.51	0.38
B1.1	86.316	T10	4.46	18.2	19.08	18.57	19.09	0.000547	0.45	9.97	18.06	0.19
B1.1	85		Culvert									
B1.1	45.049	T10	4.46	18	18.28	18.28	18.39	0.020057	1.5	2.97	13.07	1.01

3.3.4.2.- Arroyo Buenavista

HEC-RAS Plan: TREV River: BV1 Reach: BV1.1 Profile: T10

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
BV1.1	2762.97	T10	13.17	76.25	76.77	76.77	76.93	0.029497	1.81	7.26	22.1	1.01
BV1.1	2749.12	T10	13.17	75.45	76.13	76.2	76.4	0.05018	2.29	5.74	18.26	1.31
BV1.1	2737.44	T10	13.17	74	74.28	74.53	75.23	0.238841	4.33	3.04	11.98	2.74
BV1.1	2727.066	T10	13.17	73.11	73.82	73.89	74.11	0.046049	2.4	5.48	15.24	1.28
BV1.1	2715.729	T10	13.17	72.5	72.96	73.1	73.42	0.080331	3.01	4.38	13.2	1.67
BV1.1	2683.691	T10	13.17	72	72.43	72.43	72.64	0.027562	1.99	6.63	16.66	1
BV1.1	2674.324	T10	13.17	71.25	71.78	71.91	72.21	0.0785	2.88	4.57	14.4	1.63
BV1.1	2665.23	T10	13.17	70	70.38	70.62	71.21	0.149908	4.04	3.26	10.03	2.26
BV1.1	2651.575	T10	13.17	69.77	70.3	70.3	70.51	0.027273	2.04	6.45	15.44	1.01
BV1.1	2636.648	T10	13.17	68	68.27	68.55	69.45	0.3023	4.81	2.74	10.98	3.07
BV1.1	2623.601	T10	13.17	67.6	68.06	68.07	68.3	0.028423	2.14	6.14	13.89	1.03
BV1.1	2613.841	T10	13.17	67.3	67.9	67.72	67.99	0.008385	1.34	9.8	18.04	0.58
BV1.1	2604.43	T10	13.17	66.87	67.63	67.63	67.85	0.027635	2.05	6.42	15.43	1.01
BV1.1	2594.095	T10	13.17	66	66.35	66.59	67.21	0.16542	4.1	3.22	10.45	2.36
BV1.1	2583.736	T10	13.17	65.9	66.67	66.32	66.72	0.003425	0.97	13.61	20.88	0.38
BV1.1	2552.791	T10	13.17	65.8	66.66		66.69	0.001621	0.74	17.84	23.31	0.27
BV1.1	2542.233	T10	13.17	65.7	66.65		66.67	0.001101	0.66	19.87	22.5	0.23
BV1.1	2532.886	T10	13.17	65.6	66.36	66.36	66.62	0.026834	2.24	5.88	11.66	1.01
BV1.1	2523.809	T10	13.17	65.5	65.74	65.87	66.16	0.11597	2.86	4.6	19.68	1.89
BV1.1	2511.874	T10	13.17	65.4	65.79	65.76	65.94	0.024083	1.75	7.52	20.45	0.92
BV1.1	2499.216	T10	13.17	65	65.43	65.43	65.61	0.028727	1.87	7.05	20.11	1.01
BV1.1	2488.925	T10	13.17	64.5	64.84	64.93	65.17	0.064688	2.55	5.17	17.05	1.48
BV1.1	2476.856	T10	13.17	64	64.43	64.39	64.58	0.021586	1.75	7.54	19.1	0.89
BV1.1	2462.84	T10	13.17	63.47	64.04	64.04	64.23	0.028124	1.97	6.69	17.34	1.01
BV1.1	2454.06	T10	13.17	62.15	62.67	62.93	63.64	0.18899	4.37	3.02	9.84	2.52
BV1.1	2444.222	T10	13.17	60.65	61.39	61.64	62.18	0.112418	3.94	3.34	8.54	2.01
BV1.1	2430.584	T10	13.17	60	60.95	60.49	61	0.002796	1.02	12.96	15.55	0.36
BV1.1	2421.61	T10	13.17	59.79	60.95		60.98	0.001611	0.81	16.16	18.14	0.28
BV1.1	2414.703	T10	13.17	59.5	60.6	60.6	60.92	0.024479	2.5	5.27	8.28	1
BV1.1	2404.259	T10	13.17	59.3	59.82	60.02	60.45	0.08933	3.51	3.75	9.44	1.78
BV1.1	2392.947	T10	13.17	59	59.42	59.47	59.7	0.039867	2.32	5.68	14.75	1.19
BV1.1	2380.872	T10	13.17	58.7	59.27	59.14	59.38	0.01163	1.52	8.66	16.89	0.68
BV1.1	2366.751	T10	13.17	58.3	59.11		59.24	0.00926	1.61	8.2	12.25	0.63
BV1.1	2356.996	T10	13.17	58	58.96		59.14	0.009925	1.86	7.09	8.49	0.65
BV1.1	2343.582	T10	13.17	57.5	58.5	58.5	58.91	0.026103	2.86	4.61	5.62	1.01
BV1.1	2318.872	T10	13.17	57	57.46	57.71	58.31	0.112635	4.1	3.21	7.53	2
BV1.1	2305.243	T10	13.17	56.5	57.04	57.09	57.37	0.035208	2.52	5.23	10.87	1.16
BV1.1	2293.911	T10	13.17	56	56.49	56.59	56.9	0.047403	2.83	4.66	10.05	1.33
BV1.1	2286.549	T10	13.17	55.5	55.91	56.07	56.44	0.077084	3.23	4.08	10.48	1.65
BV1.1	2274.602	T10	13.17	55	55.42	55.48	55.72	0.040711	2.42	5.44	13.42	1.21
BV1.1	2261.55	T10	13.17	54.5	54.96	54.99	55.23	0.03391	2.31	5.71	13.21	1.12

HEC-RAS Plan: TREV River: BV1 Reach: BV1.1 Profile: T10

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
BV1.1	2251.407	T10	13.17	54	54.38	54.49	54.77	0.060799	2.75	4.78	13.21	1.46
BV1.1	2239.366	T10	13.17	53.5	54.17	54.17	54.45	0.025346	2.35	5.62	10.15	1.01
BV1.1	2221.069	T10	13.17	53	53.56	53.62	53.9	0.034399	2.59	5.09	9.92	1.15
BV1.1	2211.168	T10	13.17	52.5	52.92	53.06	53.42	0.070733	3.12	4.22	10.77	1.59
BV1.1	2201.825	T10	13.17	52	52.45	52.54	52.83	0.049937	2.73	4.82	11.57	1.35
BV1.1	2185.552	T10	13.17	51.7	52.49	52.21	52.59	0.006135	1.37	9.64	13.39	0.51
BV1.1	2172.203	T10	13.17	51.4	52.12	52.12	52.42	0.025071	2.43	5.41	9.09	1.01
BV1.1	2161.151	T10	13.17	51.1	51.61	51.72	52.02	0.050669	2.87	4.59	10.41	1.38
BV1.1	2151.877	T10	13.17	50.8	51.39	51.41	51.67	0.027711	2.33	5.65	11.07	1.04
BV1.1	2142.114	T10	13.17	50.5	50.95	51.04	51.31	0.04777	2.66	4.96	12.07	1.32
BV1.1	2131.685	T10	13.17	50.2	50.6	50.63	50.84	0.036918	2.19	6.01	16.19	1.15
BV1.1	2122.49	T10	13.17	49.27	49.64	49.82	50.24	0.12578	3.42	3.85	13.43	2.04
BV1.1	2111.767	T10	13.17	48	48.41	48.61	49.06	0.096093	3.57	3.69	9.63	1.84
BV1.1	2103.116	T10	13.17	47.3	47.75	47.91	48.31	0.073042	3.32	3.96	9.17	1.61
BV1.1	2092.66	T10	13.17	47	47.63	47.63	47.93	0.026236	2.43	5.43	9.15	1.01
BV1.1	2083.672	T10	13.17	46.7	47.22	47.3	47.62	0.043717	2.81	4.69	9.39	1.27
BV1.1	2072.824	T10	13.17	46.4	46.93	46.94	47.21	0.02812	2.31	5.69	11.13	1.03
BV1.1	2062.668	T10	13.17	46.1	46.83	46.6	46.94	0.007575	1.47	8.97	12.8	0.56
BV1.1	2052.824	T10	13.17	45.9	46.85		46.89	0.001686	0.83	15.9	17.29	0.28
BV1.1	2029.785	T10	13.17	45.7	46.47	46.47	46.81	0.025328	2.57	5.12	7.63	1
BV1.1	2015.132	T10	13.17	45.1	45.71	45.86	46.27	0.052846	3.31	3.98	7.16	1.42
BV1.1	1973.582	T10	13.17	44.6	44.87	44.97	45.21	0.082376	2.59	5.08	19.54	1.62
BV1.1	1959.466	T10	13.17	44.1	44.4	44.47	44.67	0.056251	2.31	5.7	19.44	1.36
BV1.1	1952.541	T10	13.17	43.6	43.84	43.94	44.18	0.090595	2.56	5.14	21.52	1.67
BV1.1	1940.736	T10	13.17	43	43.38	43.39	43.57	0.029467	1.94	6.8	18.59	1.02
BV1.1	1932.284	T10	13.17	42.5	42.86	42.96	43.21	0.060962	2.63	5.02	15.03	1.45
BV1.1	1922.246	T10	13.17	42	42.41	42.46	42.69	0.041635	2.34	5.64	15.11	1.22
BV1.1	1912.311	T10	13.17	40.55	40.99	41.26	41.91	0.149523	4.25	3.1	8.82	2.29
BV1.1	1901.865	T10	13.17	40.45	41.07	41.03	41.28	0.020669	2.05	6.42	12.25	0.9
BV1.1	1892.981	T10	13.17	40.35	40.86	40.86	41.08	0.026708	2.08	6.33	14.45	1
BV1.1	1864.464	T10	13.17	40.25	40.72	40.64	40.84	0.014264	1.5	8.76	20.38	0.73
BV1.1	1853.239	T10	13.17	40.1	40.6		40.69	0.010728	1.36	9.72	21.24	0.64
BV1.1	1842.488	T10	13.17	40	40.34	40.34	40.51	0.029532	1.81	7.29	22.2	1.01
BV1.1	1831.851	T10	13.17	39.2	39.48	39.62	39.94	0.10725	2.99	4.41	16.66	1.85
BV1.1	1815.074	T10	13.17	39	39.6	39.45	39.7	0.010125	1.43	9.18	17.71	0.64
BV1.1	1798.759	T10	13.17	38.75	39.22	39.22	39.44	0.026121	2.07	6.35	14.22	0.99
BV1.1	1787.71	T10	13.17	38.5	38.93	38.93	39.14	0.027374	2.02	6.51	15.73	1
BV1.1	1763.404	T10	13.17	38.25	38.52	38.58	38.76	0.055333	2.15	6.13	23.14	1.33
BV1.1	1750.523	T10	13.17	36.78	37.16	37.34	37.74	0.112883	3.36	3.91	12.87	1.95
BV1.1	1732.592	T10	13.17	36.6	37.4	37.11	37.48	0.005512	1.26	10.41	15.21	0.49
BV1.1	1710.209	T10	13.17	36.4	37.06	37	37.26	0.018136	2	6.58	11.8	0.86
BV1.1	1690.617	T10	13.17	36.2	36.86		36.98	0.01014	1.53	8.61	14.98	0.64
BV1.1	1670.419	T10	13.17	36	36.5	36.46	36.69	0.021331	1.92	6.84	14.64	0.9
BV1.1	1651.221	T10	13.17	35.8	36.27		36.36	0.011663	1.38	9.56	21.82	0.66
BV1.1	1618.031	T10	13.17	35.4	35.97		36.15	0.016501	1.83	7.19	13.72	0.81
BV1.1	1601.92	T10	13.17	35.2	35.9		35.97	0.005392	1.2	10.97	16.99	0.48

DETERMINACION DE LOS LIMITES DEL DOMUNIO PUBLICO HIDRAULICO Y LAS ZONAS INUNDABLES EN LAS CUENCAS DEL ARROYO DE LAS CAÑAS Y ZONA TREVENEZ-BUENAVISTA, EN LOS DESARROLLOS PREVISTOS POR EL P.G.O.U. EN REVISION

HEC-RAS Plan: TREV River: BV1 Reach: BV1.1 Profile: T10

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
BV1.1	1588.939	T10	13.17	35	35.89		35.92	0.001959	0.84	15.67	19.37	0.3
BV1.1	1562.758	T10	13.17	34.4	35.49	35.49	35.81	0.02504	2.51	5.25	8.33	1.01
BV1.1	1533.844	T10	13.17	33.8	34.1	34.36	35.08	0.212419	4.4	2.99	10.39	2.62
BV1.1	1526.211	T10	13.17	32.8	33.1	33.27	33.68	0.118883	3.35	3.93	13.4	1.98
BV1.1	1517.816	T10	13.17	32.2	32.84	32.64	32.93	0.007833	1.35	9.75	16.86	0.57
BV1.1	1492.117	T10	13.17	32	32.78		32.84	0.003702	1.08	12.22	16.59	0.4
BV1.1	1452.823	T10	13.17	31.85	32.49	32.49	32.73	0.026209	2.17	6.07	12.81	1.01
BV1.1	1440.706	T10	13.17	31.7	32.17	32.18	32.38	0.030009	2.04	6.45	16.61	1.05
BV1.1	1432.446	T10	13.17	31.5	32.08	31.98	32.2	0.013322	1.52	8.66	18.85	0.72
BV1.1	1422.089	T10	13.17	31.35	32.08		32.12	0.002973	0.83	15.89	27.97	0.35
BV1.1	1413.661	T10	13.17	31.2	32.08		32.1	0.001101	0.62	21.19	26.77	0.22
BV1.1	1401.727	T10	13.17	31	32.08		32.09	0.000282	0.36	36.61	38.33	0.12
BV1.1	1361.532	T10	13.17	30.67	32.08		32.09	0.000207	0.36	38.4	37.34	0.1
BV1.1	1351.533	T10	13.17	30.5	32.08		32.09	0.000129	0.31	45.92	40.59	0.08
BV1.1	1340.417	T10	13.17	30.27	32.08		32.08	0.000097	0.27	52.51	49.13	0.07
BV1.1	1325.857	T10	13.17	30.17	32.08		32.08	0.000043	0.19	76.23	61.61	0.05
BV1.1	1300.122	T10	13.17	30	32.08		32.08	0.000018	0.14	113.77	90.97	0.03
BV1.1	1289.414	T10	13.17	29.89	32.08	30.27	32.08	0.000027	0.17	84.96	57.91	0.04
BV1.1	1280		Culvert									
BV1.1	1224.015	T10	13.17	28.4	29.2	29.2	29.42	0.027131	2.07	6.37	14.85	0.04
BV1.1	1212.936	T10	13.17	28.3	29.16	28.83	29.2	0.003345	0.83	15.79	30.15	0.37
BV1.1	1201.586	T10	13.17	28.2	28.98		29.11	0.017765	1.63	8.06	19.56	0.81
BV1.1	1192.282	T10	13.17	28.1	28.91	28.75	28.98	0.009159	1.17	11.24	27.45	0.58
BV1.1	1180.538	T10	13.17	27.98	28.62	28.62	28.79	0.029759	1.82	7.25	22.11	1.01
BV1.1	1171.019	T10	13.17	27.84	28.35	28.16	28.38	0.004229	0.78	16.85	42.11	0.39
BV1.1	1160.101	T10	13.17	27.8	28.33		28.35	0.001992	0.55	23.99	58.16	0.27
BV1.1	1148.925	T10	13.17	27.75	28.31		28.33	0.001979	0.54	24.17	58.96	0.27
BV1.1	1140.372	T10	13.17	27.7	28.29		28.31	0.001843	0.53	24.75	59.36	0.26
BV1.1	1108.175	T10	13.17	27.65	28.18		28.22	0.00501	0.8	16.43	45.09	0.42
BV1.1	1097.541	T10	13.17	27.6	28.13		28.16	0.005016	0.82	16	42.22	0.43
BV1.1	1090.803	T10	13.17	27.55	28.08		28.12	0.007214	0.94	14.06	40.13	0.51
BV1.1	1084.426	T10	13.17	27.5	27.98		28.05	0.015454	1.19	11.04	38.85	0.71
BV1.1	1077.355	T10	13.17	27.45	27.86		27.94	0.017909	1.21	10.86	41.7	0.76
BV1.1	1072.578	T10	13.17	27.4	27.82		27.87	0.008276	0.97	13.6	41	0.54
BV1.1	1063.127	T10	13.17	27.35	27.81		27.83	0.001941	0.57	22.94	50.81	0.27
BV1.1	1051.611	T10	13.17	27.3	27.65	27.65	27.76	0.033313	1.51	8.75	38.68	1.01
BV1.1	1044.71	T10	13.17	26.73	27.07	27.16	27.37	0.098803	2.46	5.35	25.6	1.72
BV1.1	1032.609	T10	13.17	26.4	27.02	26.81	27.07	0.006002	0.99	13.29	30.35	0.48
BV1.1	1016.368	T10	13.17	26.38	26.92		26.97	0.006408	0.97	13.53	33.33	0.49
BV1.1	1009.078	T10	13.17	26.36	26.89		26.93	0.004447	0.86	15.4	35.04	0.41
BV1.1	997.815	T10	13.17	26.34	26.84		26.88	0.005176	0.88	14.96	36.54	0.44
BV1.1	986.932	T10	13.17	26.32	26.79		26.82	0.004114	0.78	16.84	41.37	0.39
BV1.1	975.067	T10	13.17	26.3	26.76		26.78	0.002995	0.66	19.84	49.1	0.33
BV1.1	960.38	T10	13.17	26.28	26.72		26.74	0.002086	0.55	23.74	58.71	0.28
BV1.1	946.065	T10	13.17	26.26	26.68		26.71	0.002947	0.63	20.82	54.77	0.33
BV1.1	937.793	T10	13.17	26.24	26.66		26.68	0.003041	0.64	20.72	55.34	0.33

DETERMINACION DE LOS LIMITES DEL DOMUNIO PUBLICO HIDRAULICO Y LAS ZONAS INUNDABLES EN LAS CUENCAS DEL ARROYO DE LAS CAÑAS Y ZONA TREVENEZ-BUENAVISTA, EN LOS DESARROLLOS PREVISTOS POR EL P.G.O.U. EN REVISION

HEC-RAS Plan: TREV River: BV1 Reach: BV1.1 Profile: T10

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
BV1.1	928.459	T10	13.17	26.22	26.63		26.65	0.002988	0.62	21.15	57.59	0.33
BV1.1	919.338	T10	13.17	26.2	26.59		26.62	0.004567	0.74	17.8	51.42	0.4
BV1.1	910.497	T10	13.17	26.18	26.54		26.57	0.005699	0.8	16.55	50.63	0.44
BV1.1	901.186	T10	13.17	26.16	26.38	26.37	26.47	0.025881	1.28	10.26	47.68	0.88
BV1.1	892.155	T10	13.17	25.76	26.15	26.13	26.23	0.026919	1.27	10.38	50.53	0.89
BV1.1	883.133	T10	13.17	25.54	26.07		26.11	0.007026	0.82	15.99	54.36	0.48
BV1.1	873.15	T10	13.17	25.47	25.87	25.87	25.97	0.035122	1.38	9.51	49.59	1.01
BV1.1	861.423	T10	13.17	24.5	24.89	25.02	25.3	0.095149	2.81	4.68	17.79	1.75
BV1.1	854.268	T10	13.17	24.45	24.98	24.89	25.07	0.014439	1.34	9.8	27.43	0.72
BV1.1	843.318	T10	13.17	24.4	24.87		24.93	0.009577	1.09	12.07	33.9	0.58
BV1.1	832.407	T10	13.17	24.35	24.78		24.83	0.008145	0.99	13.32	38.43	0.54
BV1.1	821.072	T10	13.17	24.3	24.69		24.74	0.008477	0.97	13.6	41.73	0.54
BV1.1	811.775	T10	13.17	24.25	24.63		24.67	0.005902	0.79	16.62	52.57	0.45
BV1.1	803.352	T10	13.17	24.2	24.59		24.62	0.005522	0.78	16.99	52.78	0.44
BV1.1	792.189	T10	13.17	24.15	24.54		24.56	0.004404	0.7	18.8	57.39	0.39
BV1.1	775.106	T10	13.17	24.1	24.47		24.49	0.00393	0.67	19.78	59.81	0.37
BV1.1	756.218	T10	13.17	24.05	24.39		24.42	0.003866	0.64	20.56	65.06	0.36
BV1.1	741.381	T10	13.17	24	24.34		24.36	0.003157	0.59	22.47	69.86	0.33
BV1.1	719.822	T10	13.17	23.95	24.28		24.3	0.003018	0.55	24.05	80.06	0.32
BV1.1	700.321	T10	13.17	23.9	24.23		24.24	0.002582	0.5	26.45	90.3	0.29
BV1.1	683.754	T10	13.17	23.85	24.17	24.05	24.19	0.00398	0.55	24.16	99.62	0.35
BV1.1	662.417	T10	13.17	23.8	23.92	23.92	23.98	0.040144	1.1	11.98	97.65	1
BV1.1	618.278	T10	13.17	22.3	23.43	22.87	23.43	0.000263	0.33	54.42	108.19	0.11
BV1.1	606.857	T10	13.17	22.25	23.43		23.43	0.00005	0.14	94.69	113.9	0.05
BV1.1	556.64	T10	13.17	22.2	23.43		23.43	0.000019	0.1	131.59	124.66	0.03
BV1.1	538.764	T10	13.17	22.15	23.43		23.43	0.000018	0.1	128.58	112.23	0.03
BV1.1	522.565	T10	13.17	22.1	23.43		23.43	0.000009	0.08	179.04	180.85	0.02
BV1.1	510.212	T10	13.17	22.05	23.43	22.17	23.43	0.000009	0.08	163.22	126.02	0.02
BV1.1	509		Culvert									
BV1.1	423.047	T10	13.17	20.5	21.1	21.21	21.54	0.045283	2.93	4.5	8.93	0.02
BV1.1	406.26	T10	13.17	20	20.97	20.68	21.09	0.007379	1.57	8.37	10.64	0.57
BV1.1	249.132	T10	13.17	18.1	18.85	18.85	19.11	0.025827	2.25	5.86	11.55	1.01
BV1.1	225.796	T10	13.17	18.09	18.74	18.52	18.77	0.003453	0.79	18.38	51.81	0.37
BV1.1	207.46	T10	13.17	18.08	18.63		18.67	0.009281	0.94	13.96	47.68	0.56
BV1.1	190.576	T10	13.17	18.07	18.53		18.56	0.004606	0.66	19.97	69.03	0.39
BV1.1	174.45	T10	13.17	18.06	18.46		18.48	0.004466	0.62	21.25	78.87	0.38
BV1.1	158.662	T10	13.17	18.05	18.39		18.41	0.00453	0.59	22.19	88.76	0.38
BV1.1	139.741	T10	13.17	18.04	18.34		18.35	0.002092	0.41	32.26	127.92	0.26
BV1.1	127.958	T10	13.17	18.03	18.33		18.34	0.000993	0.31	42.78	149.46	0.18
BV1.1	77.678	T10	13.17	18.02	18.31		18.32	0.001522	0.37	35.32	125.19	0.22
BV1.1	69.101	T10	13.17	18.01	18.3		18.3	0.001813	0.4	32.62	117.01	0.24
BV1.1	59.655	T10	13.17	17.99	18.28		18.29	0.002	0.42	31.02	111.01	0.26
BV1.1	47.996	T10	13.17	17.98	18.24		18.26	0.003293	0.51	25.63	100.15	0.32
BV1.1	38.002	T10	13.17	17.97	18.13	18.1	18.18	0.023466	0.98	13.46	87.33	0.8

3.3.4.3.- Arroyo Trévez

HEC-RAS Plan: TREV Profile: T10

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
T2	T2.1	176.018	T10	5.87	12	12.84	12.23	12.84	0.000079	0.18	39.39	80.91	0.07
T2	T2.1	166.133	T10	5.87	11.95	12.84		12.84	0.000043	0.13	54.92	111.62	0.05
T2	T2.1	154.125	T10	5.87	11.9	12.84		12.84	0.000119	0.21	29.83	54.06	0.08
T2	T2.1	146.327	T10	5.87	11.85	12.83		12.84	0.000203	0.31	23.82	49.51	0.11
T2	T2.1	137.311	T10	5.87	11.8	12.84	12.17	12.84	0.000036	0.13	60.41	132.73	0.05
T2	T2.1	135		Culvert									
T2	T2.1	56.638	T10	5.87	11.75	12.32		12.33	0.000319	0.28	29.47	107.35	0.13
T2	T2.1	46.757	T10	5.87	11.7	12.31	12.13	12.32	0.001502	0.53	14.14	54.78	0.26
T1	T1.1	751.176	T10	5.87	16.44	17.3	17.36	17.6	0.039417	2.43	2.42	5.59	1.18
T1	T1.1	744.826	T10	5.87	16.2	16.99	16.7	17.04	0.004264	0.92	6.35	12.33	0.41
T1	T1.1	729.126	T10	5.87	16.15	16.78	16.78	16.88	0.03453	1.44	4.07	19.62	1.01
T1	T1.1	699.724	T10	5.87	16.1	16.7	16.42	16.71	0.00176	0.56	11.39	29.92	0.26
T1	T1.1	692.408	T10	5.87	16.05	16.56	16.56	16.67	0.019451	1.49	4.39	24.82	0.82
T1	T1.1	682.063	T10	5.87	16	16.52	16.36	16.55	0.004151	0.74	8.94	32.19	0.39
T1	T1.1	672.042	T10	5.87	15.95	16.41		16.47	0.016617	1.06	5.76	30.45	0.71
T1	T1.1	661.972	T10	5.87	15.9	16.38		16.4	0.003153	0.55	12.16	54.28	0.32
T1	T1.1	652.863	T10	5.87	15.85	16.35		16.37	0.003227	0.6	10.76	40.63	0.33
T1	T1.1	632.768	T10	5.87	15.75	16.35		16.35	0.000672	0.33	20.47	63.02	0.16
T1	T1.1	622.739	T10	5.87	15.7	16.34		16.34	0.000487	0.27	22.63	59.99	0.14
T1	T1.1	602.567	T10	5.87	15.65	16.29		16.33	0.008644	0.88	6.7	24.13	0.53
T1	T1.1	591.447	T10	5.87	15.6	16.2		16.23	0.00851	0.78	7.49	31.45	0.51
T1	T1.1	571.02	T10	5.87	15.55	15.95	15.93	16.09	0.026926	1.66	3.54	11.47	0.95
T1	T1.1	562.438	T10	5.87	15.45	15.71	15.71	15.82	0.033581	1.47	4	18.45	1.01
T1	T1.1	523.546	T10	5.87	14.5	15.42	15.15	15.45	0.005145	0.8	7.54	23.69	0.42
T1	T1.1	514.145	T10	5.87	14.45	15.11	15.11	15.34	0.028196	2.1	2.79	6.23	1
T1	T1.1	418.947	T10	5.87	13.9	15.2	14.01	15.2	0.000003	0.04	134.1	109.61	0.01
T1	T1.1	415		Culvert									
T1	T1.1	337.13	T10	5.87	13.75	15.18		15.2	0.000818	0.66	8.88	8.68	0.21
T1	T1.1	322.675	T10	5.87	13.7	15.16		15.18	0.001218	0.69	8.48	11.54	0.26
T1	T1.1	311.647	T10	5.87	13.65	15.08		15.16	0.003453	1.24	4.74	5.12	0.41
T1	T1.1	302.194	T10	5.87	13.6	15.05		15.12	0.00319	1.18	4.98	5.69	0.4
T1	T1.1	293.963	T10	5.87	13.55	15.01		15.09	0.004051	1.25	4.69	5.95	0.45
T1	T1.1	282.52	T10	5.87	13.5	14.98		15.05	0.003413	1.2	4.91	5.82	0.42
T1	T1.1	272.086	T10	5.87	13.45	14.92		15.01	0.004432	1.31	4.5	5.69	0.47
T1	T1.1	252.148	T10	5.87	13.4	14.51	14.51	14.82	0.0226	2.43	2.41	4	1
T1	T1.1	115.563	T10	5.87	13.3	14.53	13.93	14.57	0.001783	0.9	6.53	7.62	0.31
T1	T1.1	110		Culvert									
T1	T1.1	10	T10	5.87	13.25	13.89	13.89	14.14	0.021898	2.22	2.64	5.31	1.01

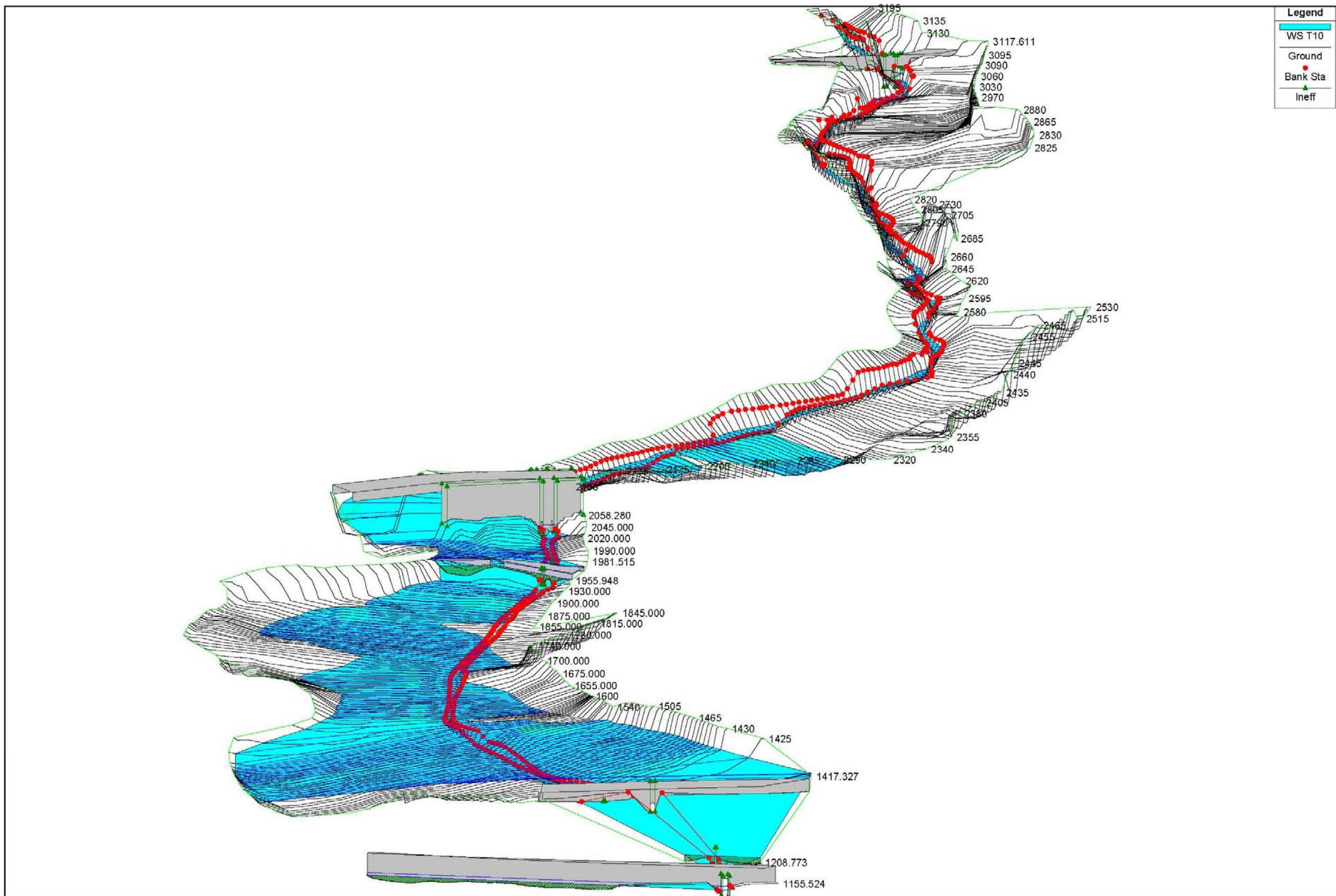
3.3.4.4.- Arroyo Carambuco

HEC-RAS Plan: TREV River: C1 Reach: C1.1 Profile: T10

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
C1.1	290.575	T10	8.04	12.16	13.45	12.56	13.45	0.000093	0.22	37.95	50.53	0.08
C1.1	283.103	T10	8.04	12.15	13.45		13.45	0.000081	0.22	39.55	55.97	0.07
C1.1	271.528	T10	8.04	12.14	13.44		13.45	0.000088	0.24	35.87	42.07	0.07
C1.1	254.694	T10	8.04	12.13	13.44		13.45	0.000073	0.22	40.9	55.6	0.07
C1.1	245.198	T10	8.04	12.12	13.44		13.44	0.000071	0.21	43.02	63.96	0.07
C1.1	234.734	T10	8.04	12.11	13.44		13.44	0.000079	0.24	37.09	44.68	0.07
C1.1	224.614	T10	8.04	12.1	13.44		13.44	0.000079	0.23	37.64	44.87	0.07
C1.1	215.29	T10	8.04	12.09	13.44		13.44	0.000065	0.21	42.64	55.9	0.07
C1.1	205.163	T10	8.04	12.08	13.44		13.44	0.000065	0.2	42.57	55.61	0.06
C1.1	194.209	T10	8.04	12.07	13.44	12.66	13.44	0.000204	0.32	27.47	45.09	0.11
C1.1	192		Culvert									
C1.1	173.831	T10	8.04	12.06	12.85		12.89	0.003466	0.89	9.02	18.96	0.41
C1.1	151.775	T10	8.04	12.05	12.86		12.87	0.00031	0.33	27.92	61.74	0.13
C1.1	135.552	T10	8.04	12.04	12.86		12.86	0.000281	0.32	30.94	75.07	0.12
C1.1	115.526	T10	8.04	12.02	12.86		12.86	0.000238	0.29	33.35	81.83	0.12
C1.1	104.061	T10	8.04	12.01	12.85		12.86	0.000263	0.32	31.47	77.89	0.12
C1.1	94.639	T10	8.04	12	12.85		12.86	0.000275	0.34	33.17	93.32	0.13

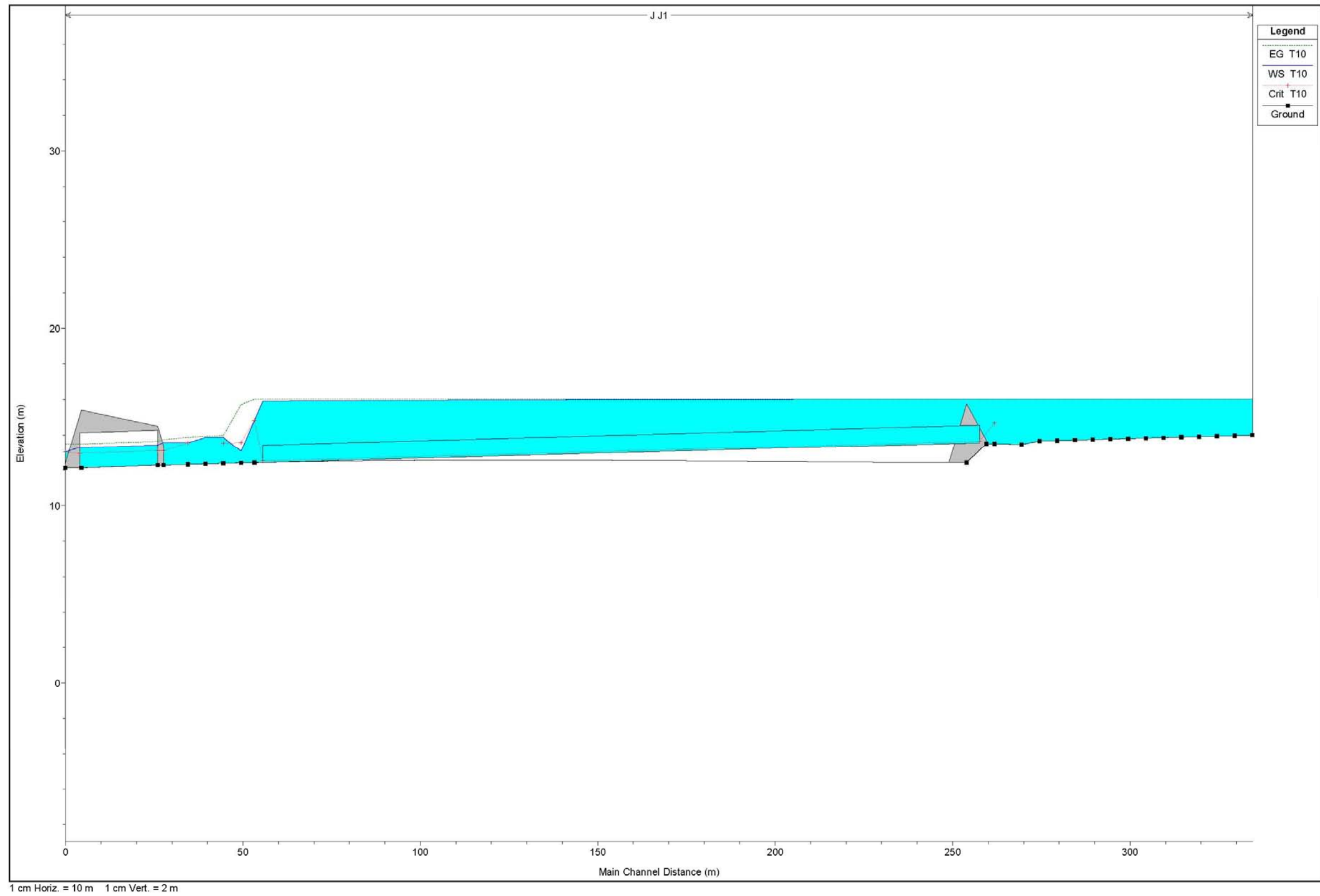
- 3.4.- Cuenca 4. Arroyo Prado Jurado. T=10 años
 - 3.4.1.- Vista 3D arroyo
 - 3.4.2.- Perfil longitudinal
 - 3.4.3.- Perfiles transversales
 - 3.4.4.- Tablas de resultados

3.4.1.- Vista 3D arroyo

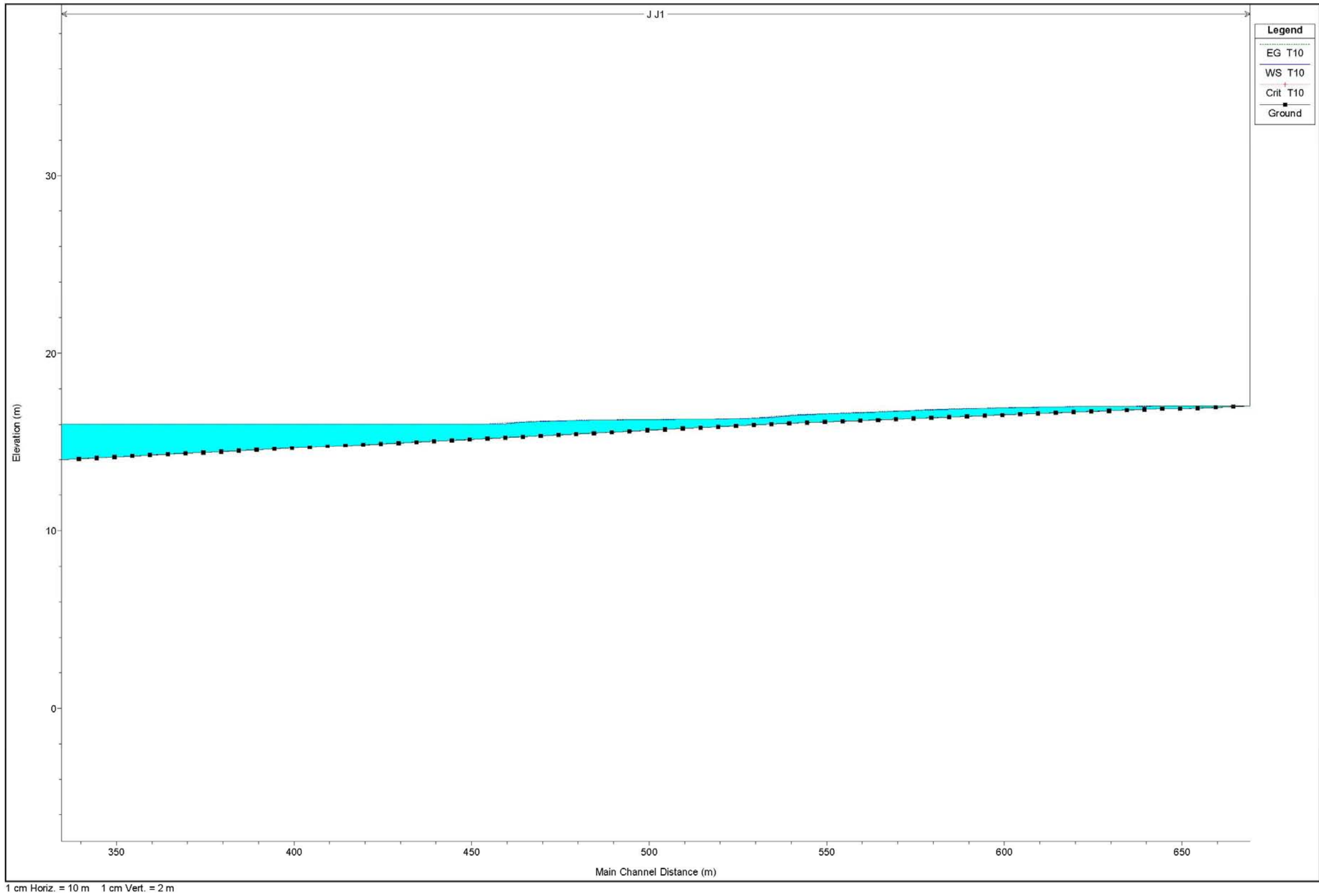


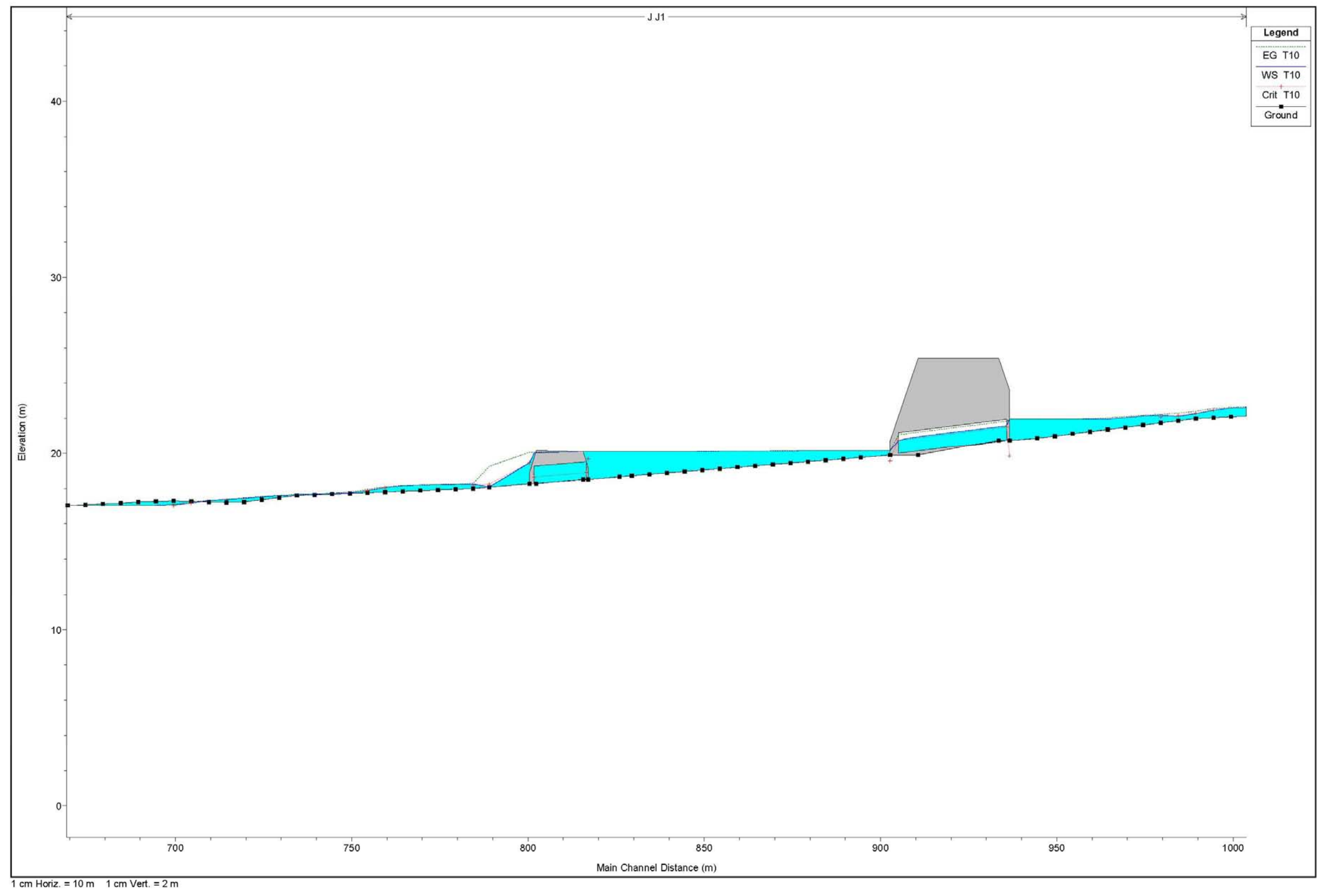
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3.4.2.- Perfil longitudinal

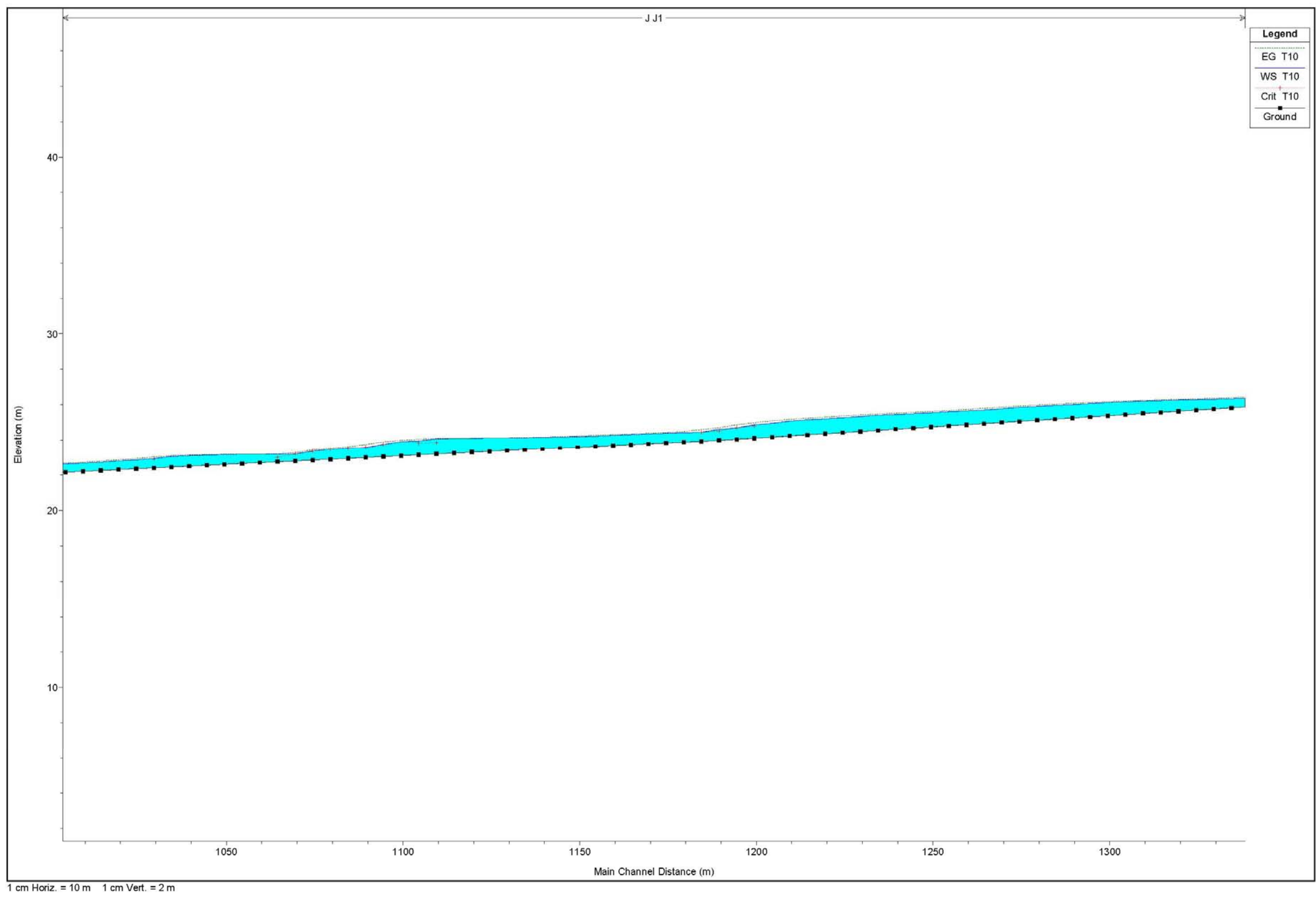


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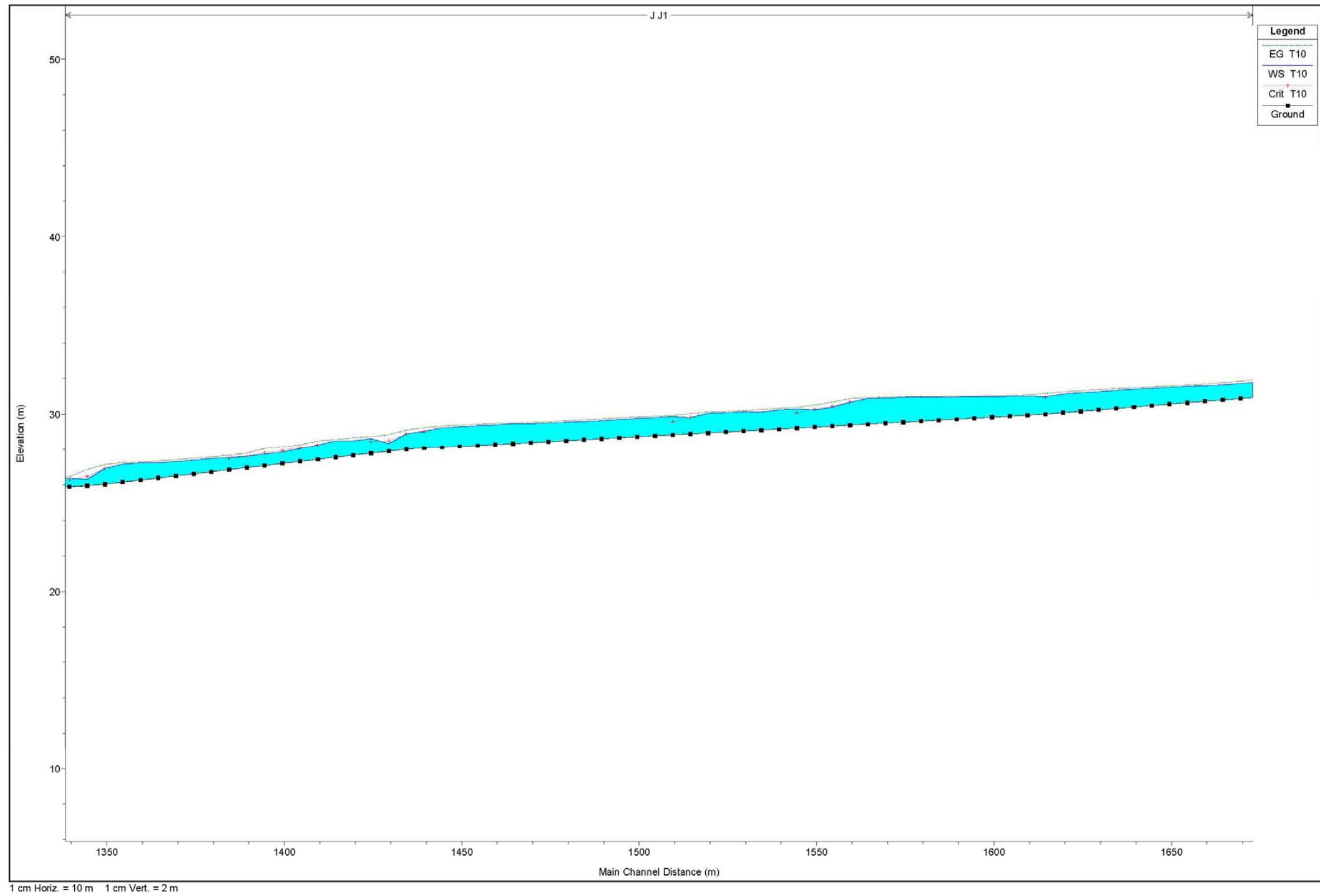




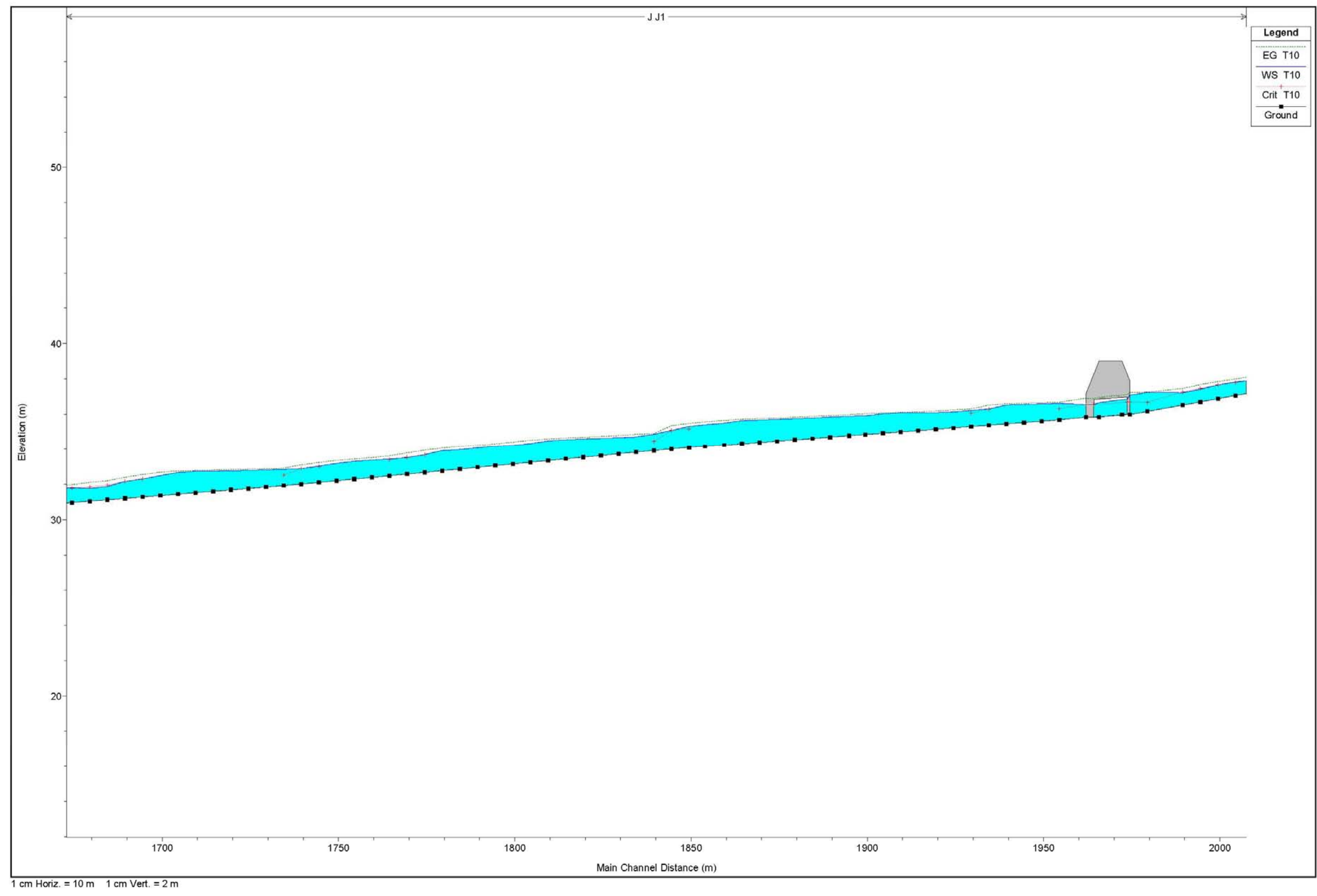
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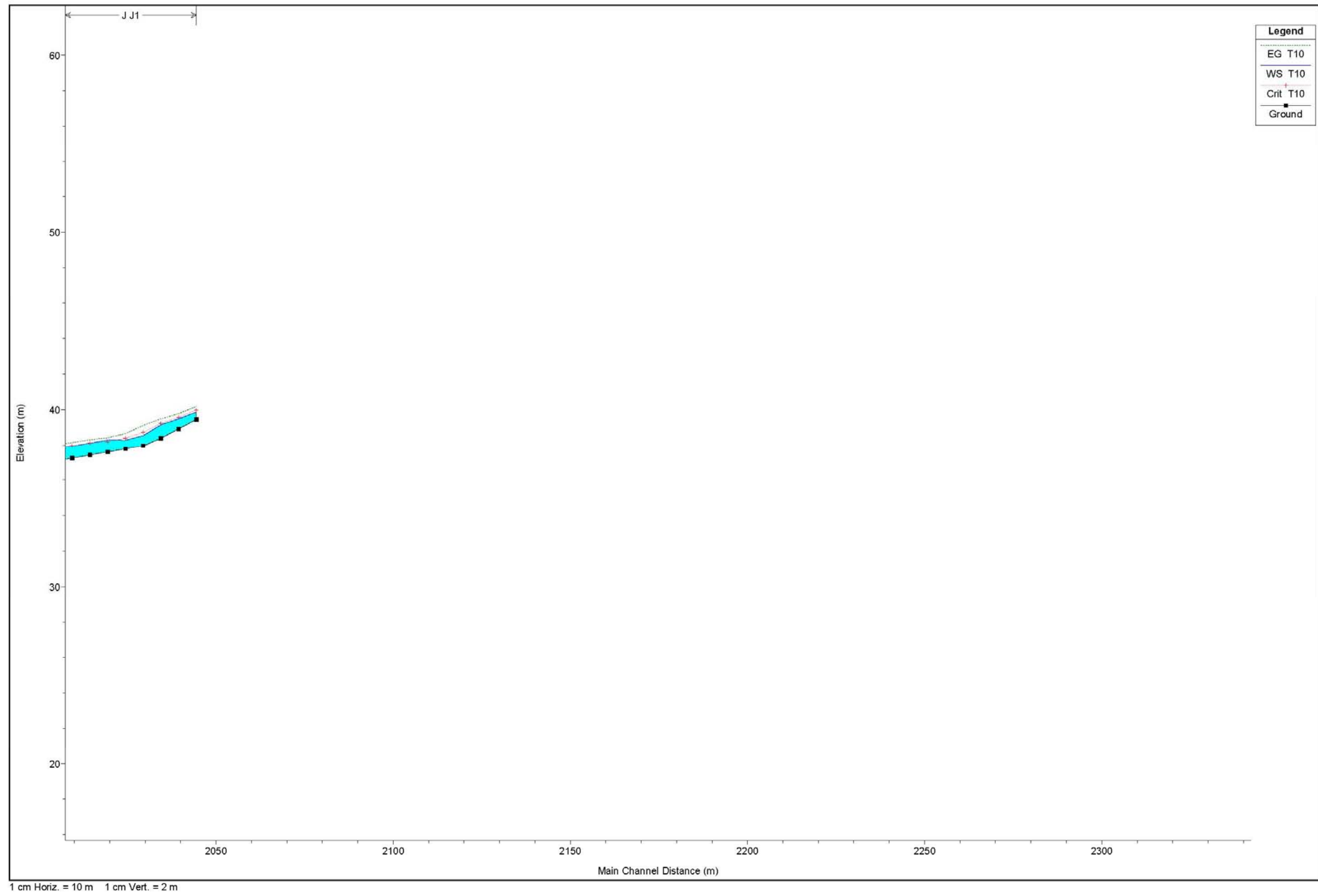
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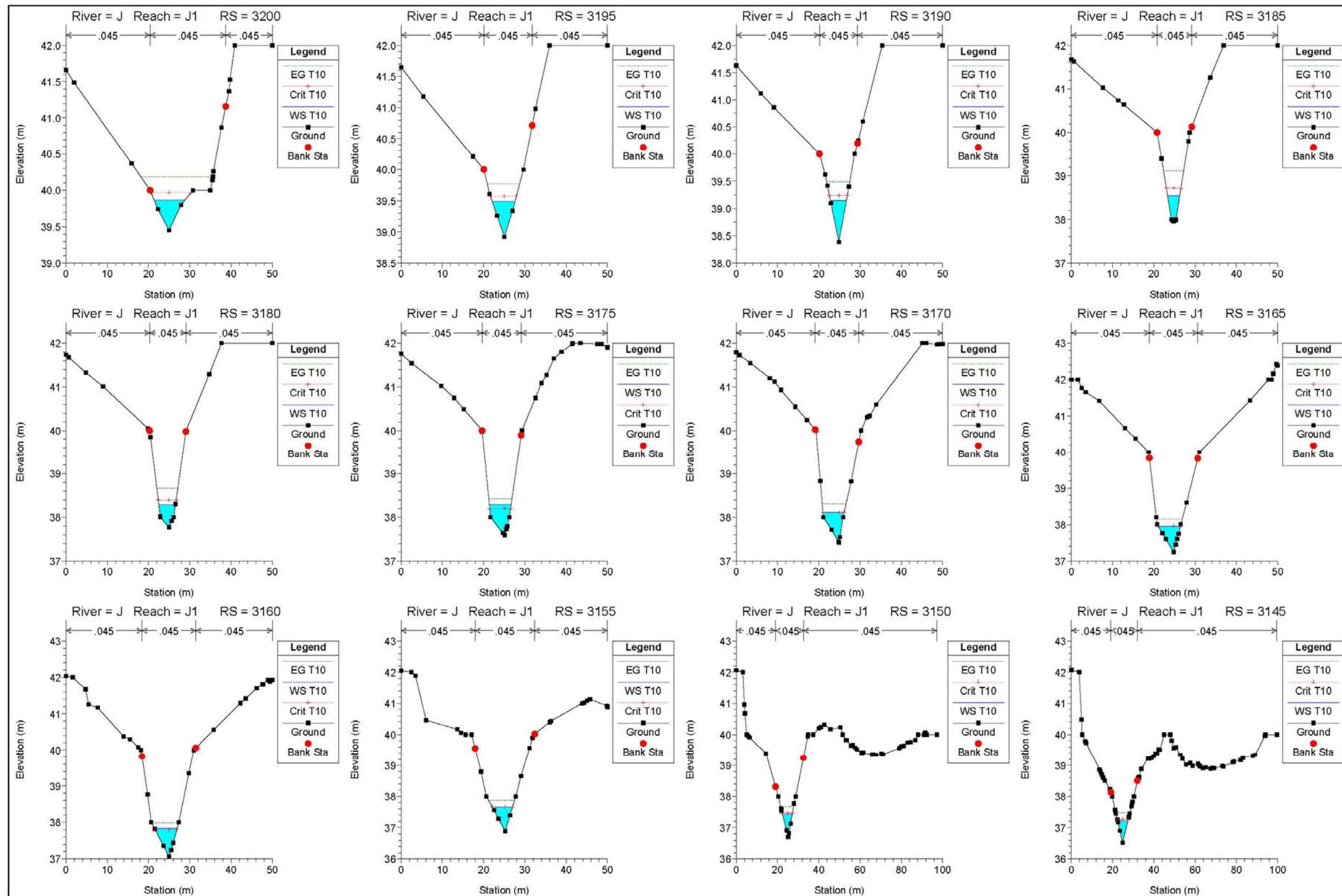
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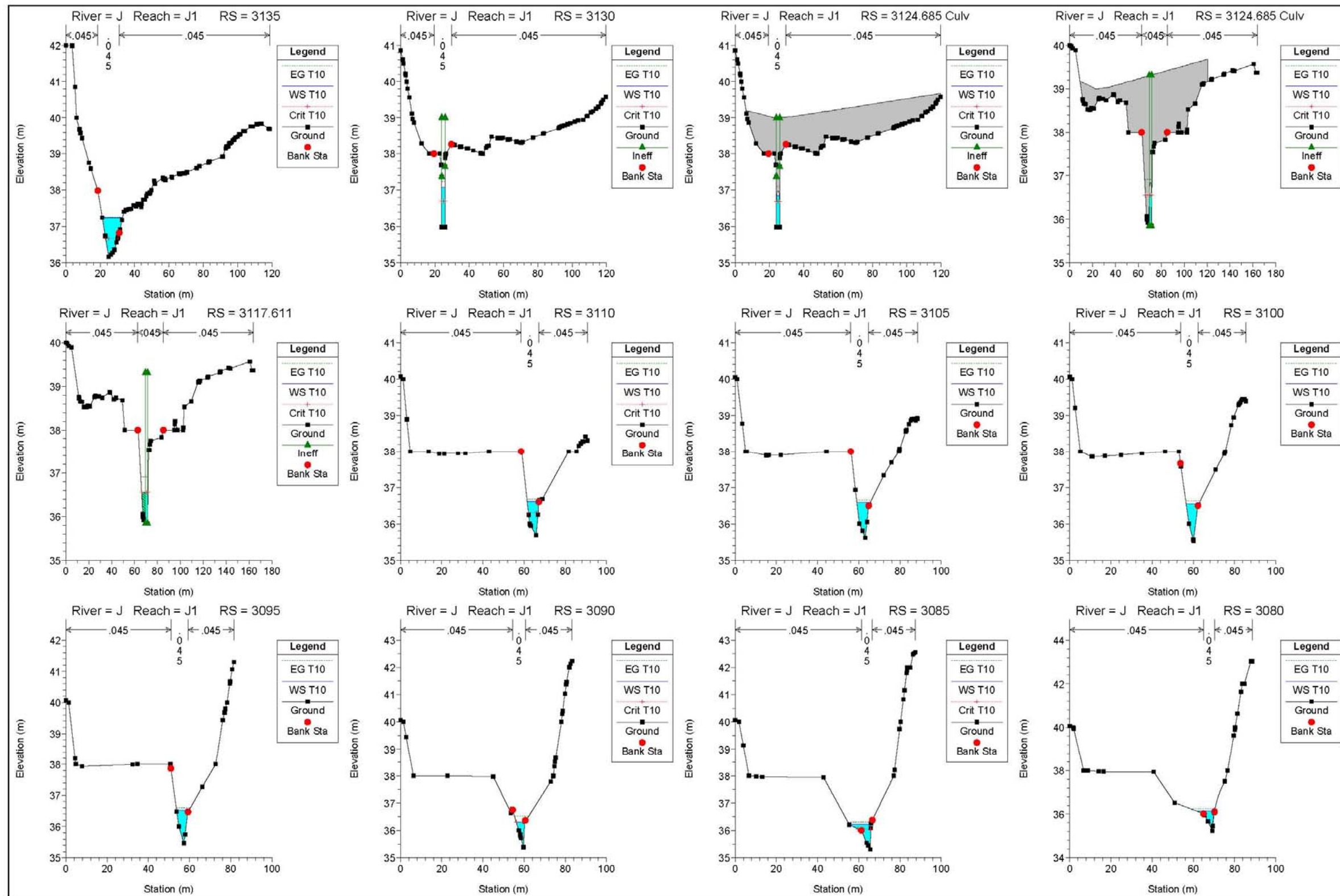


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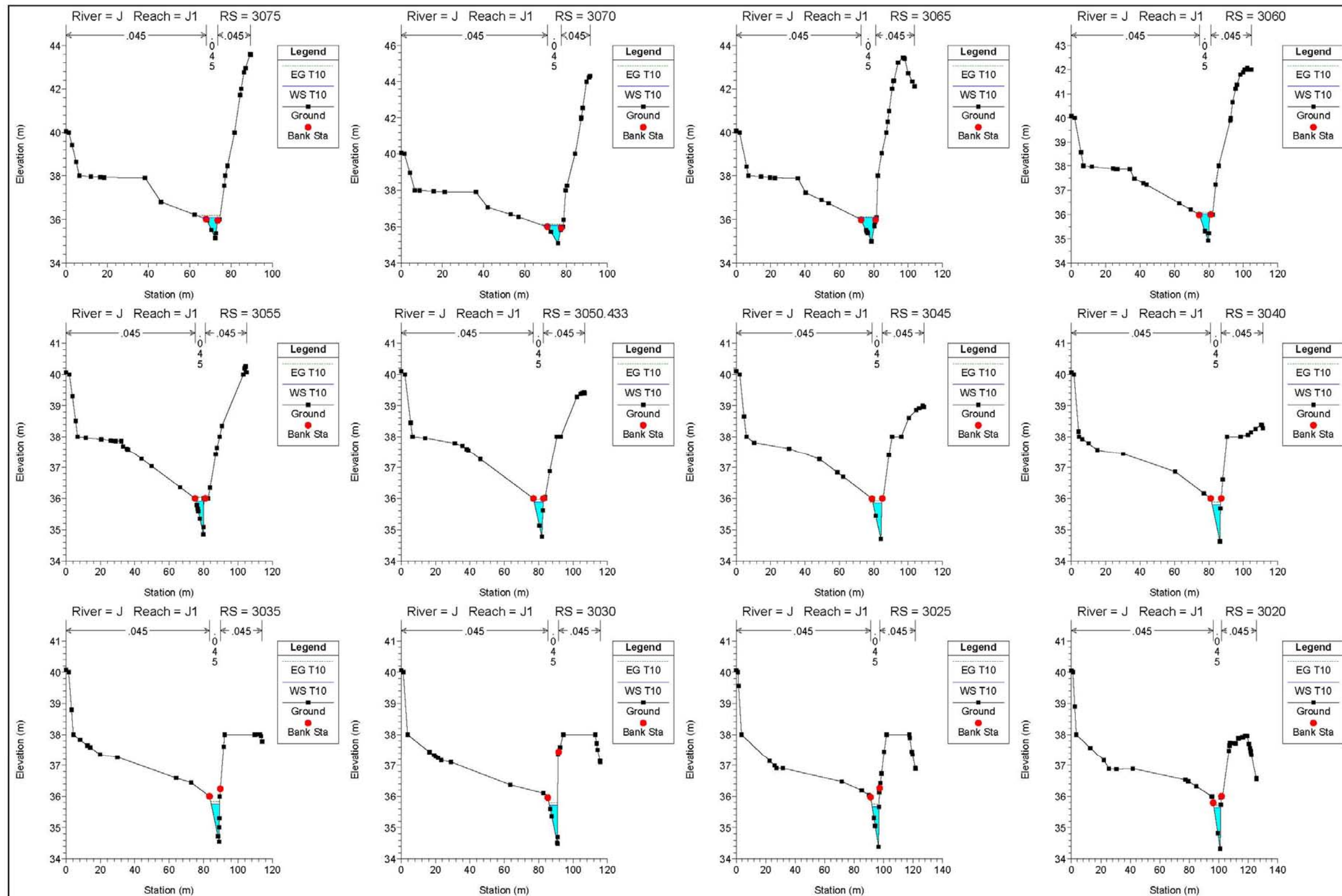


3.4.3.- Perfiles transversales

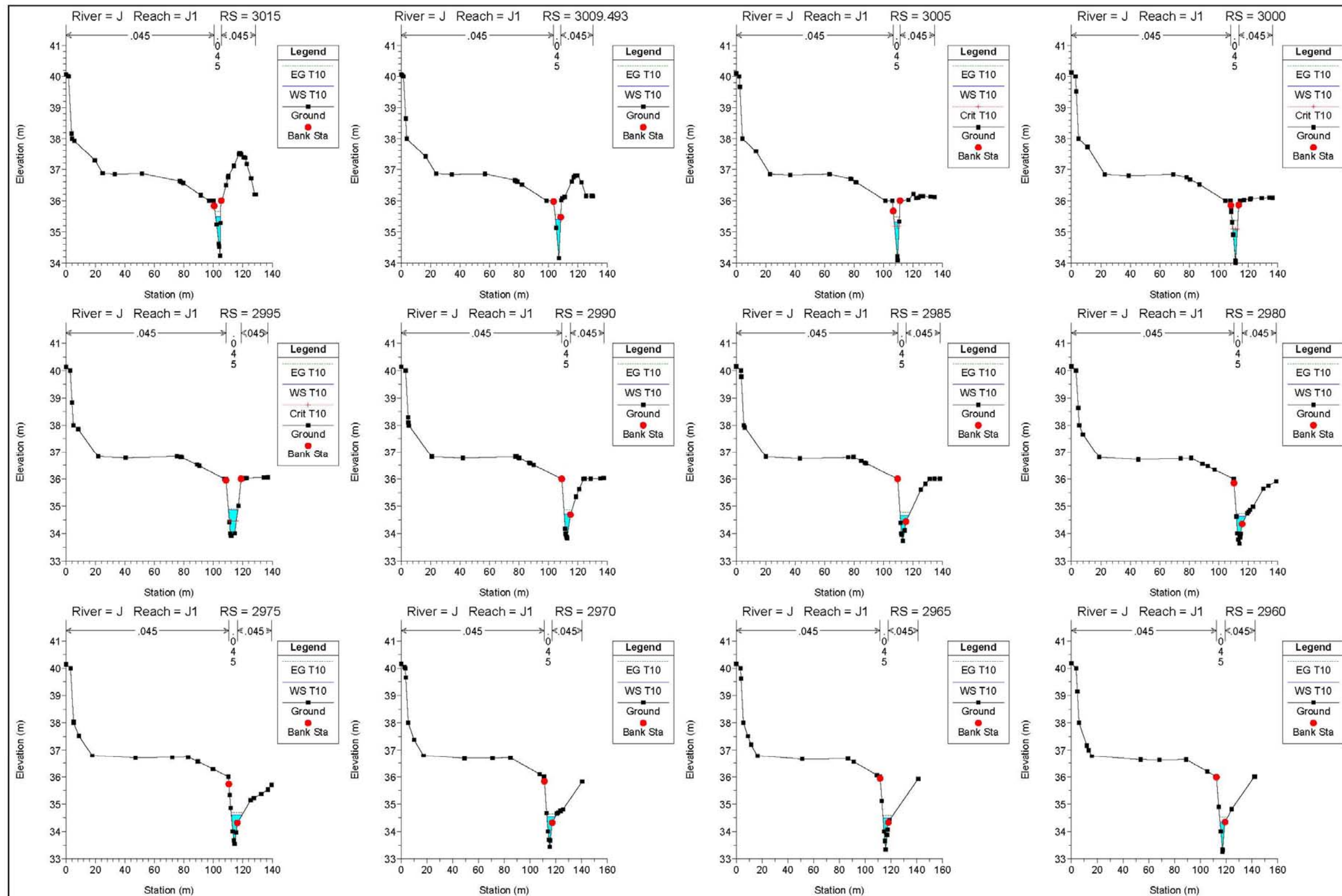




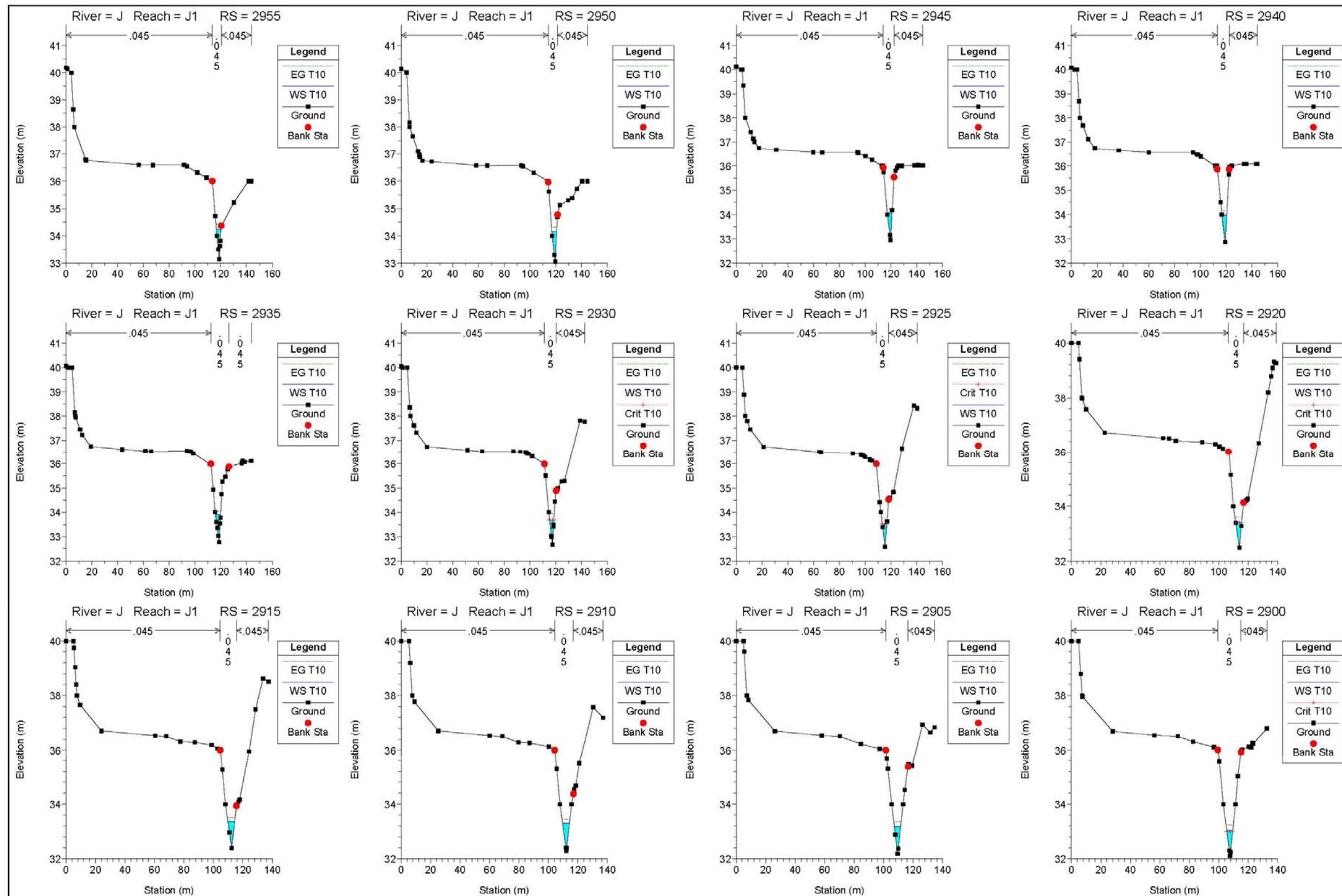
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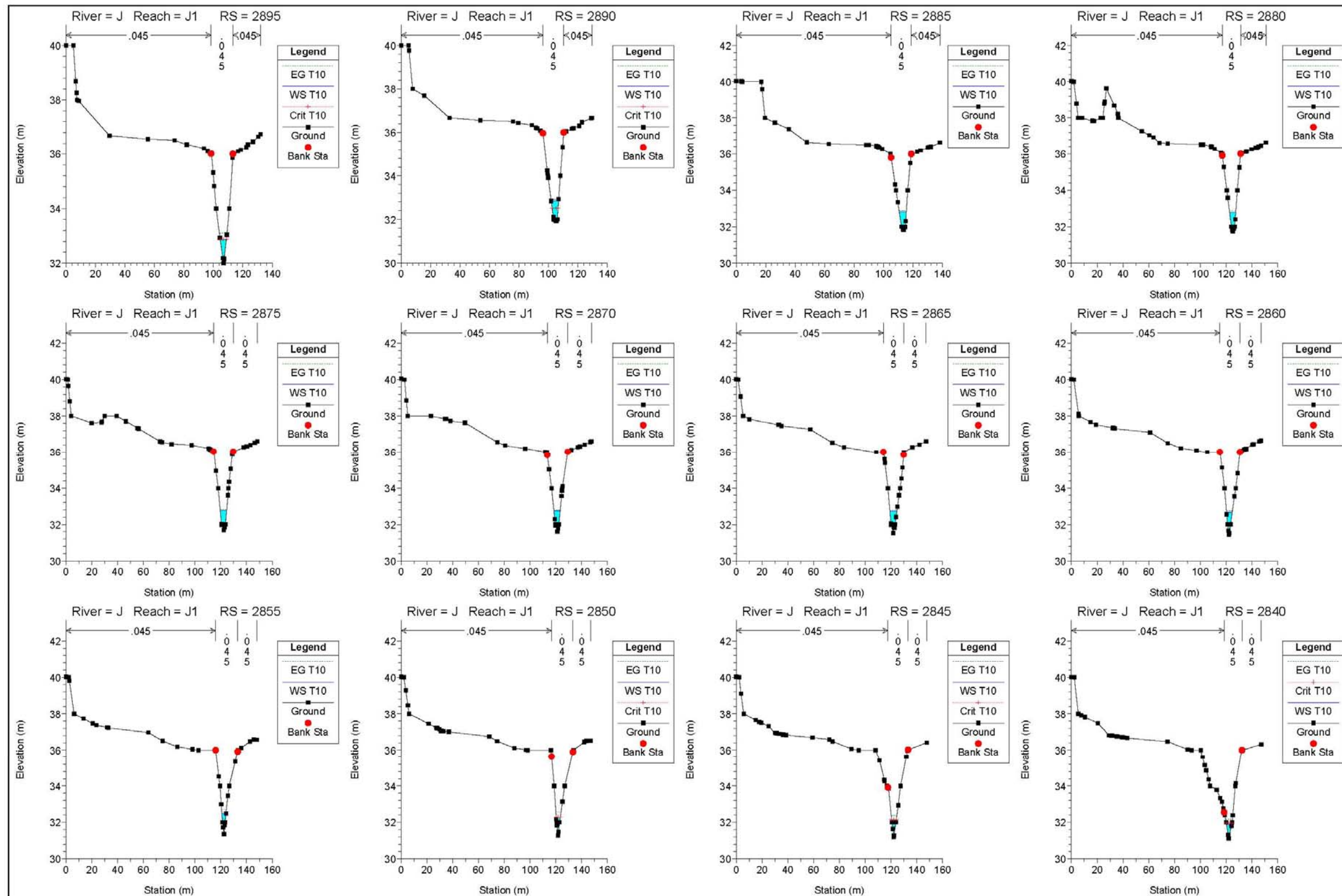


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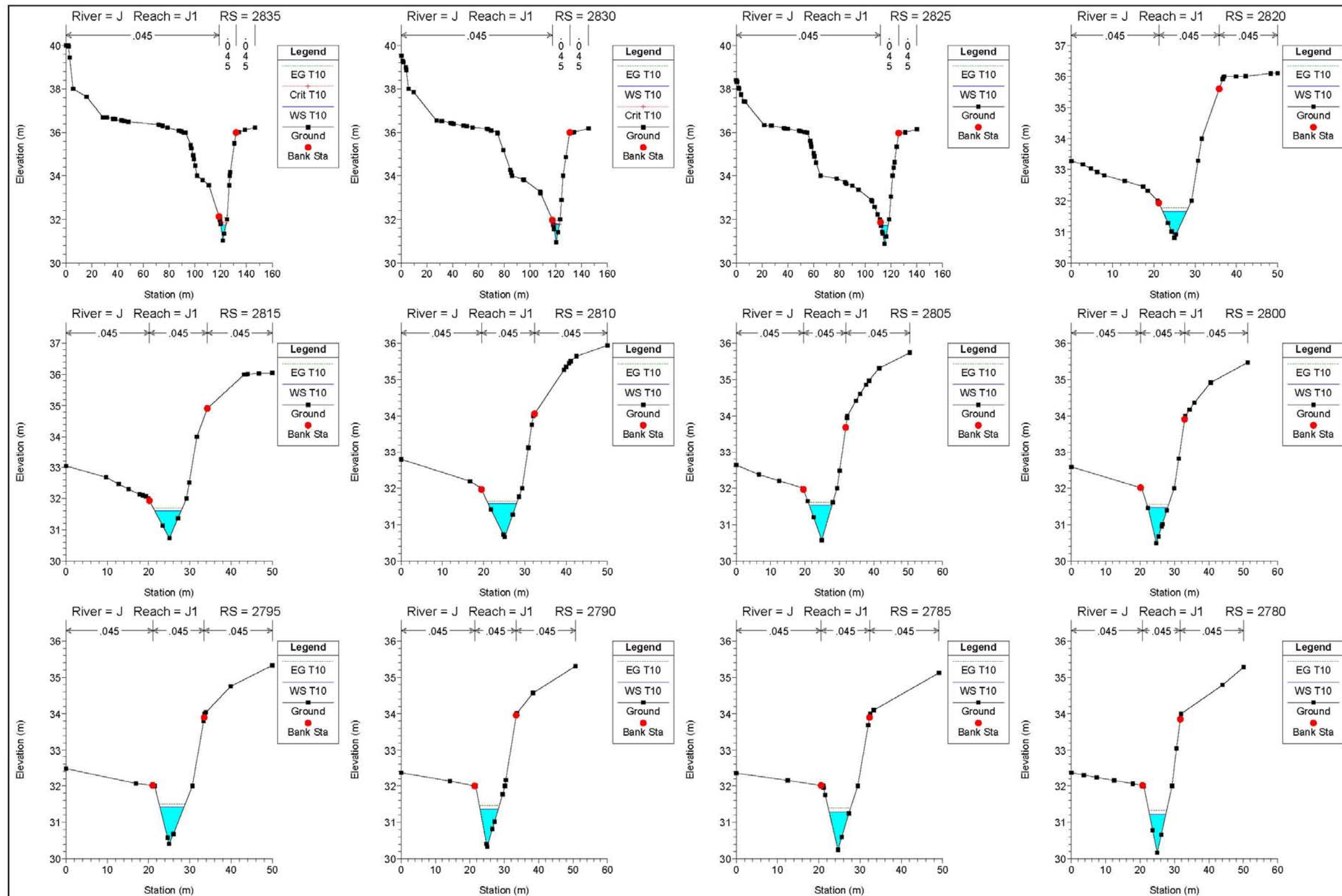


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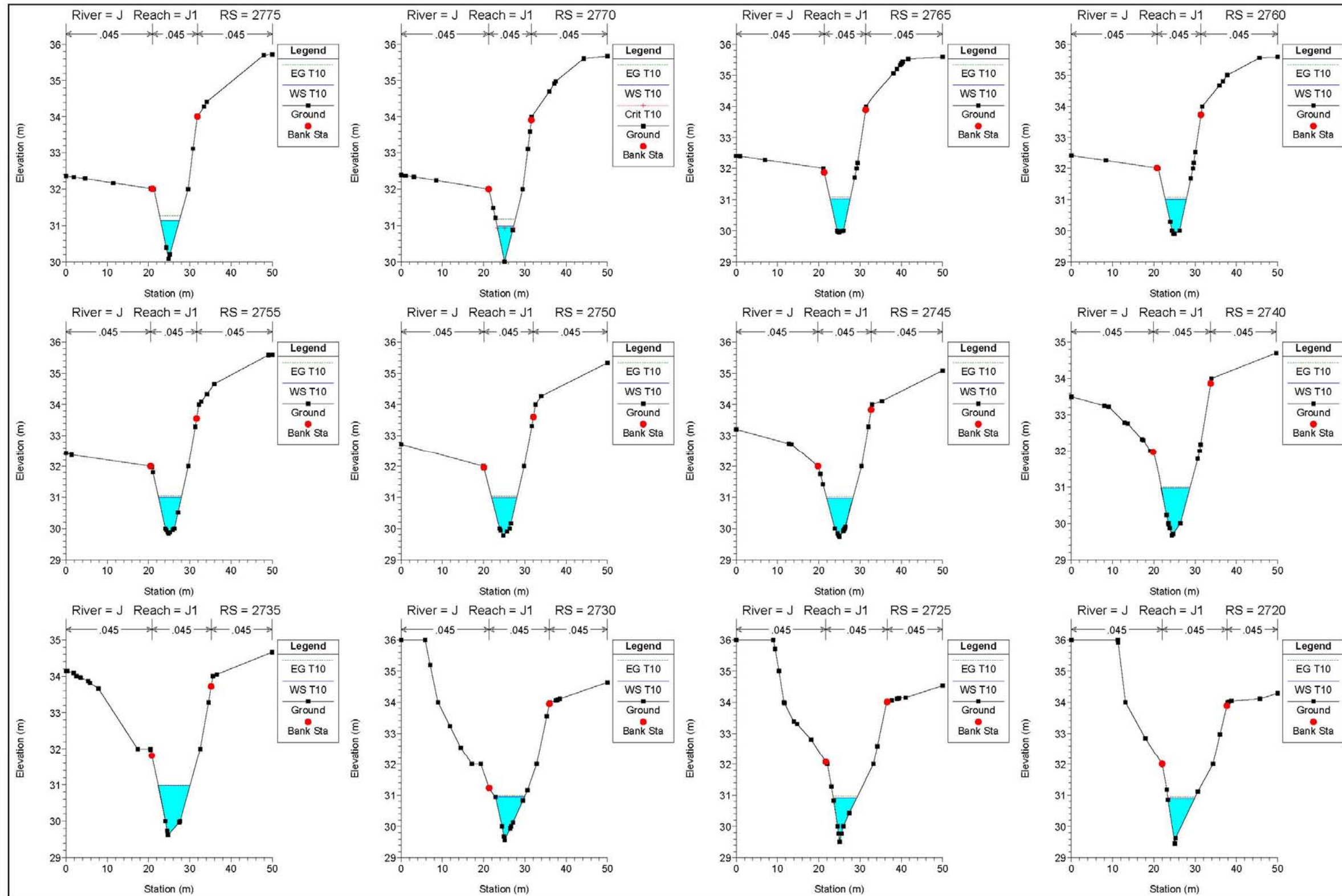




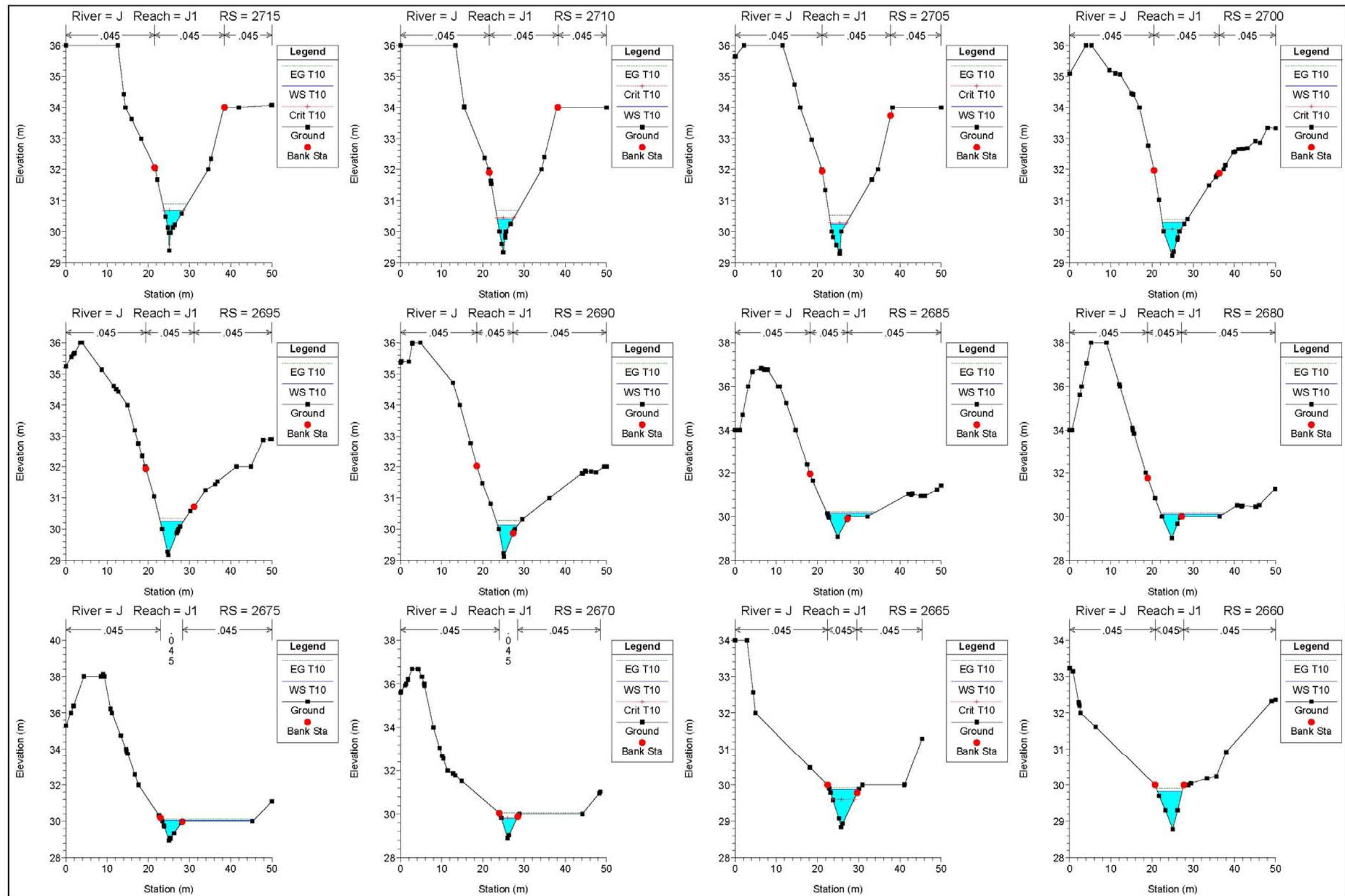
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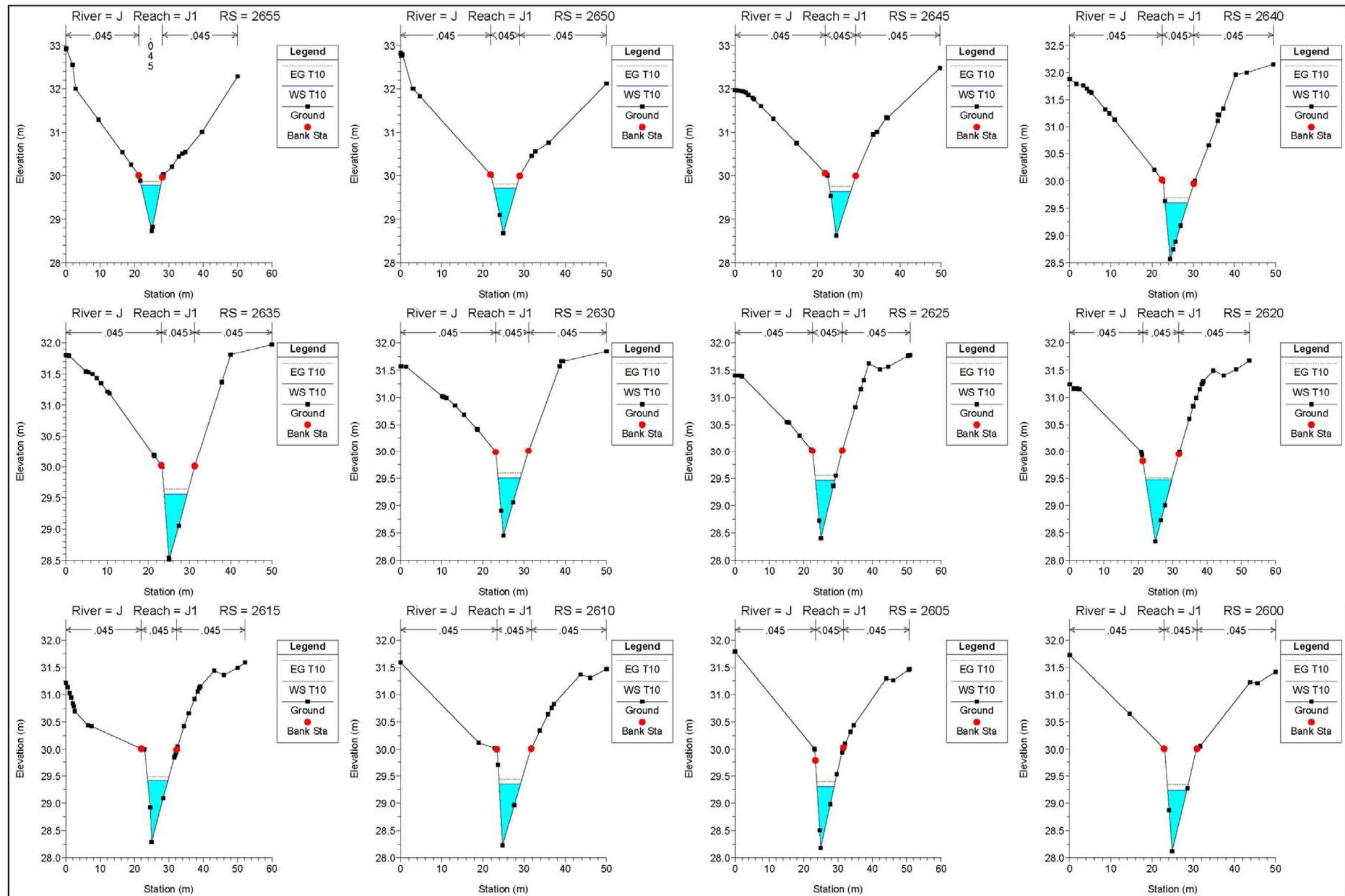
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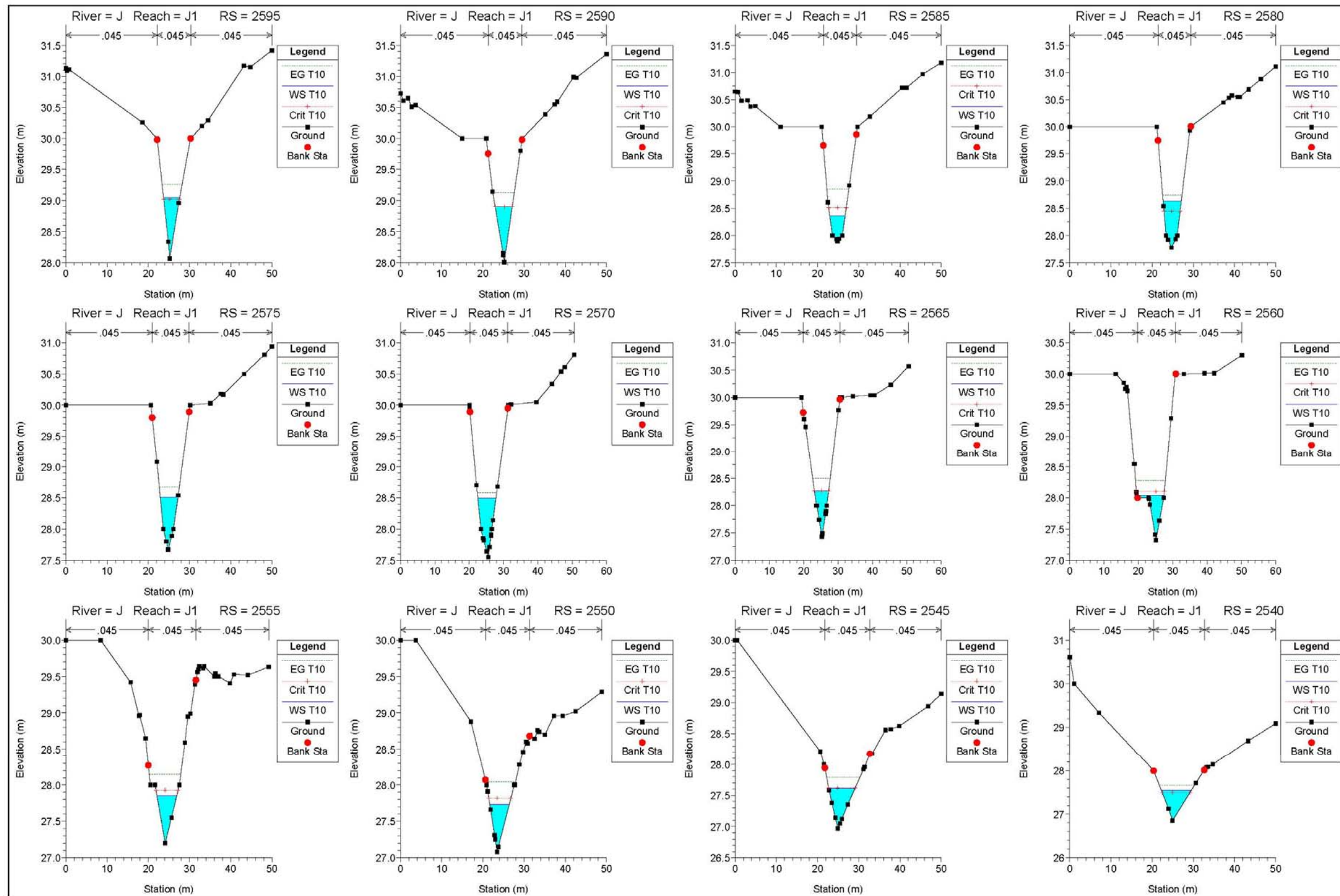
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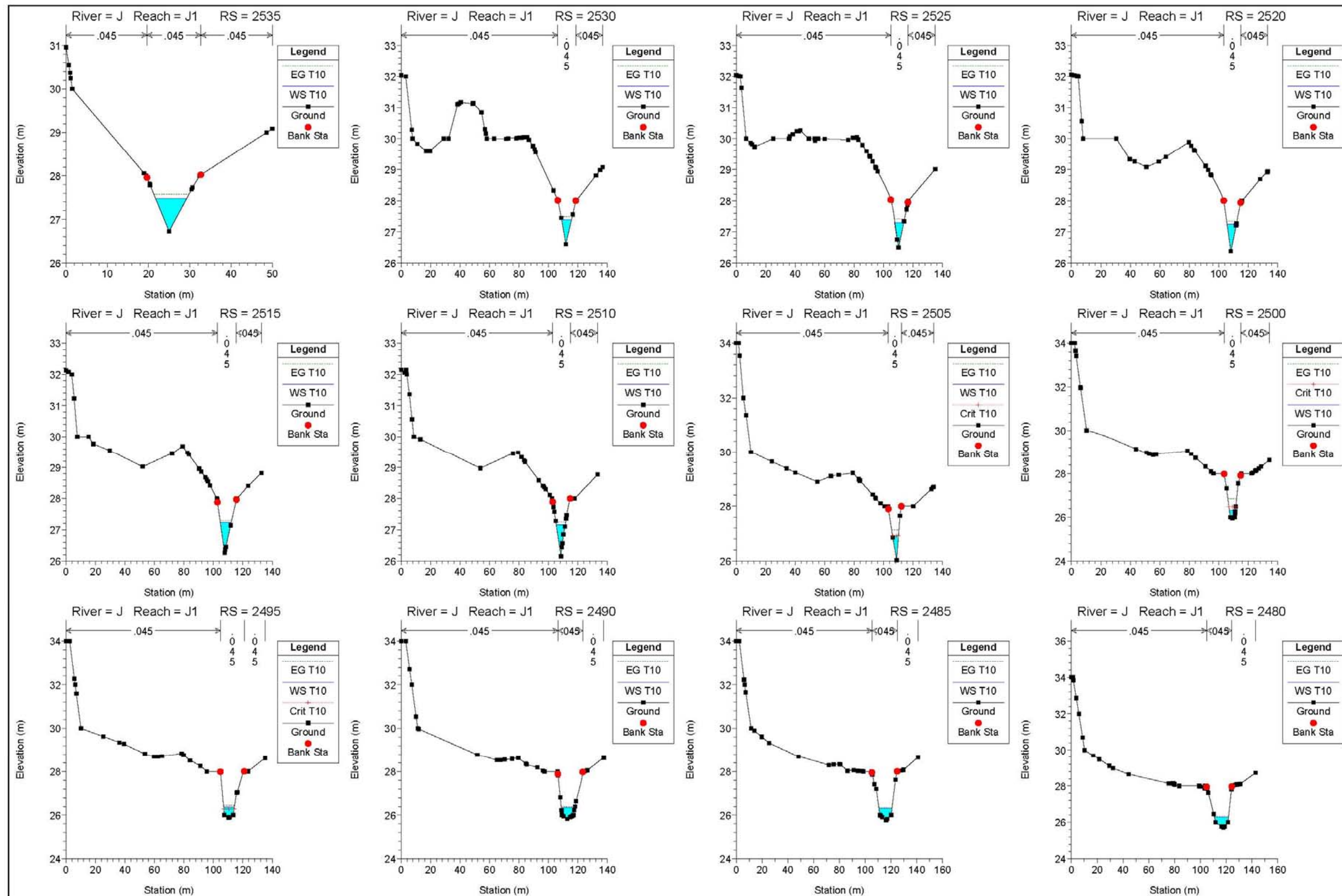
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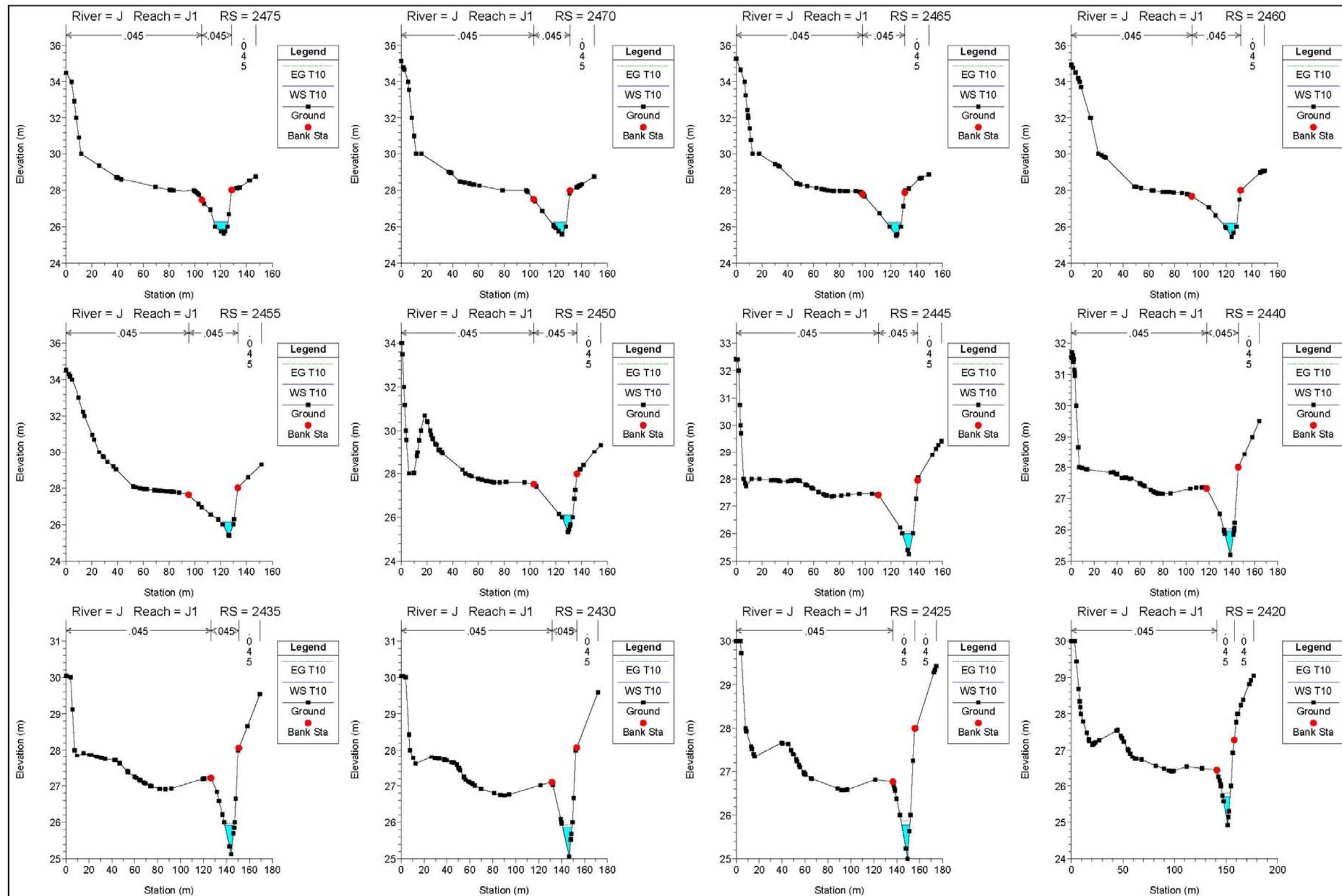
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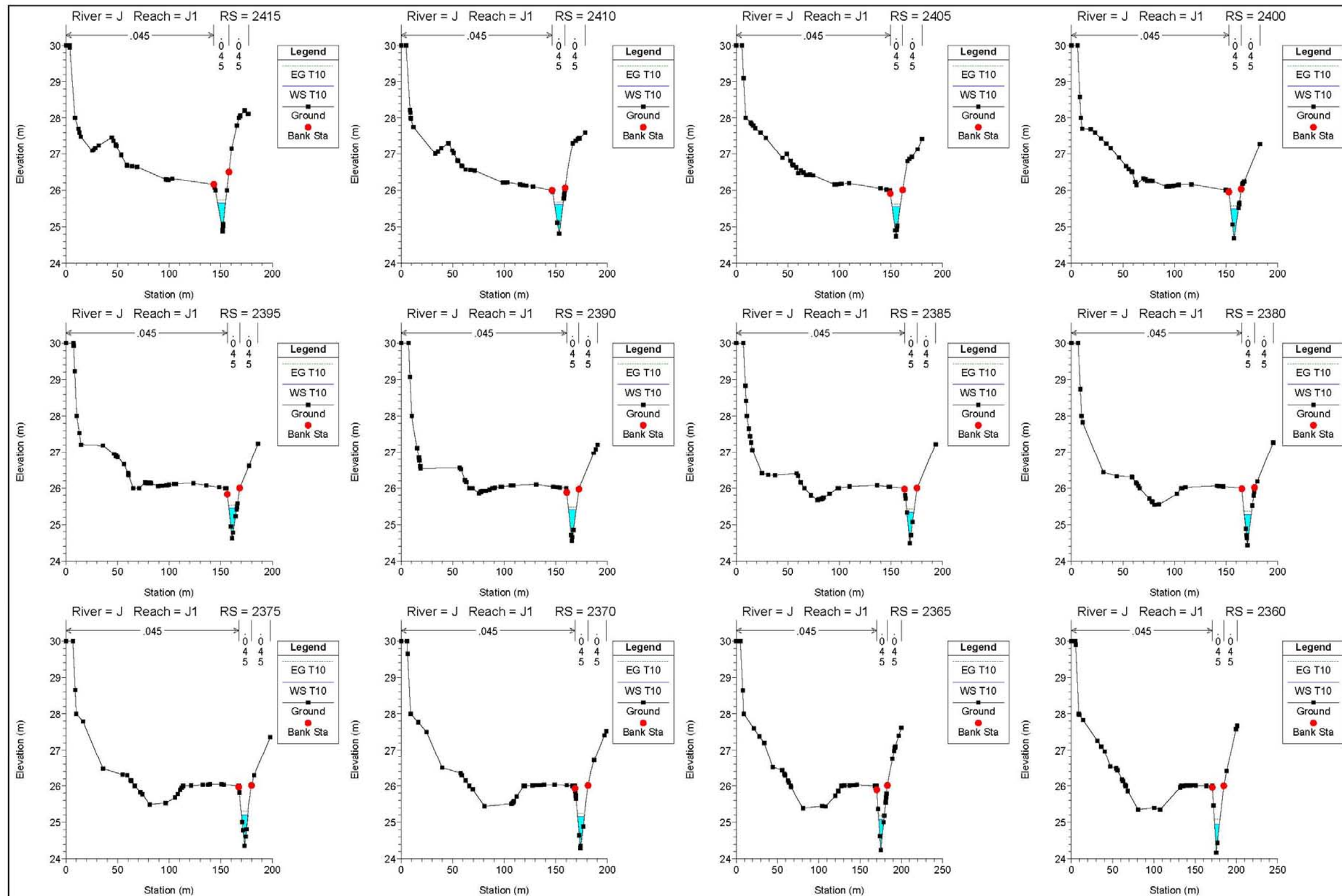
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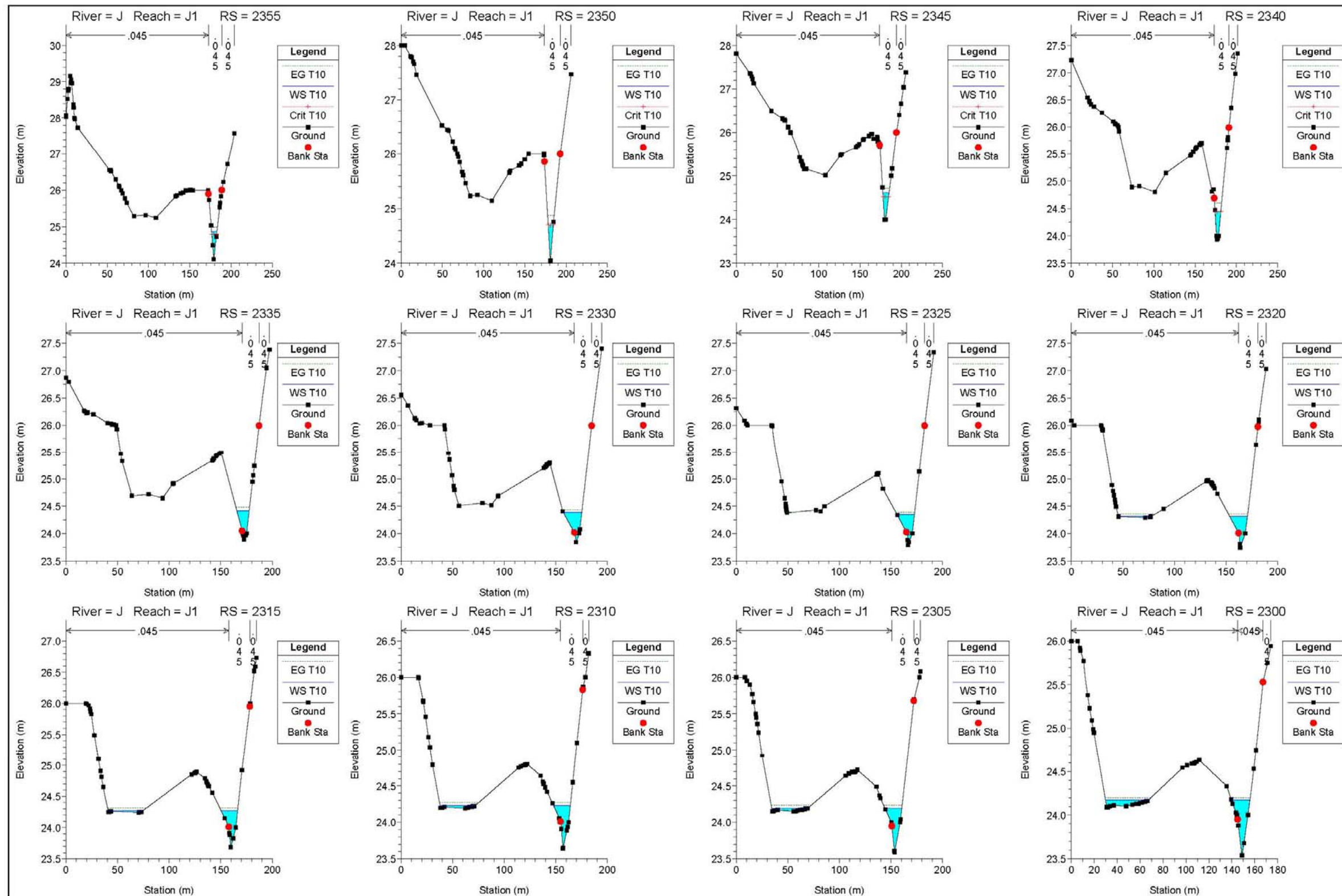
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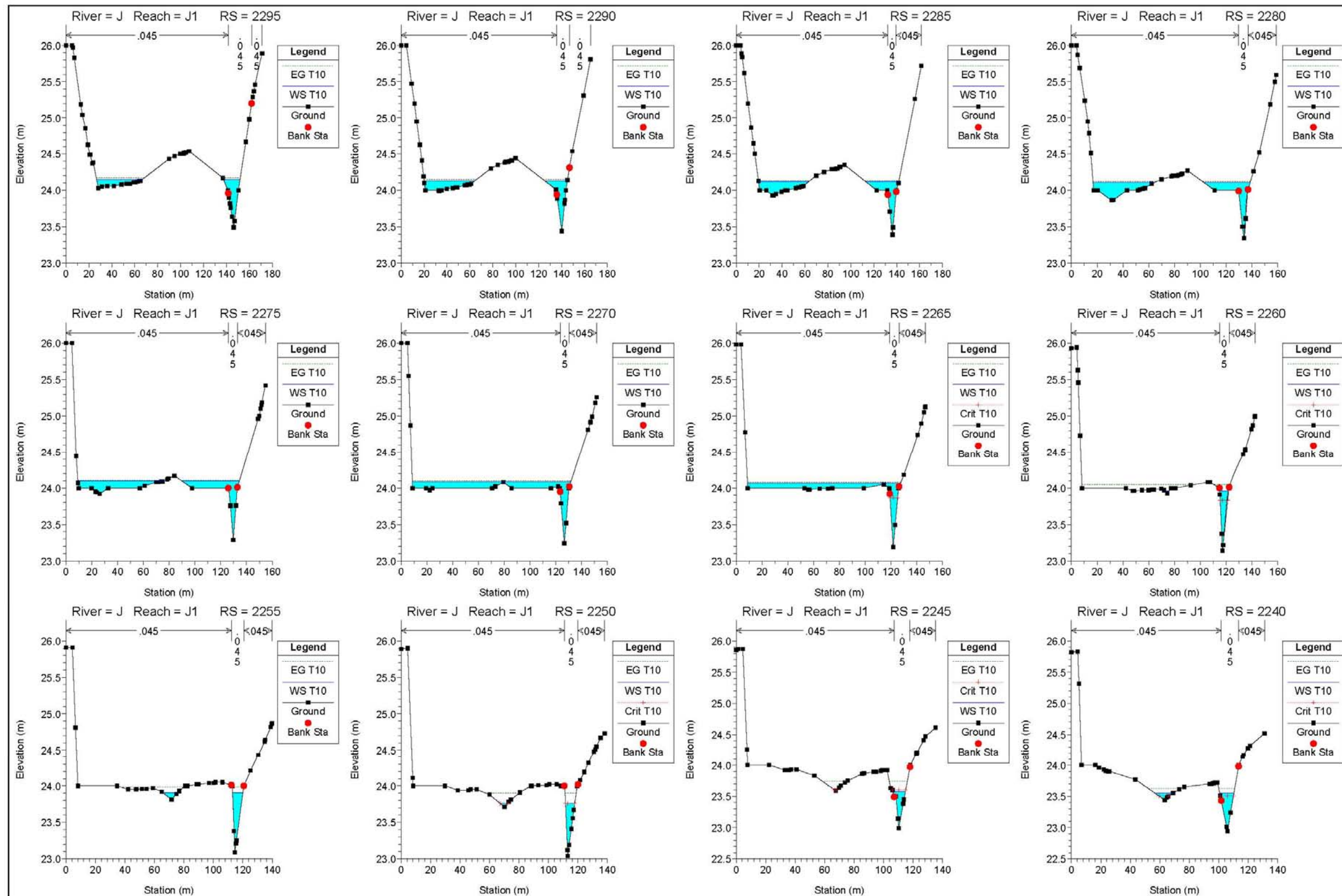
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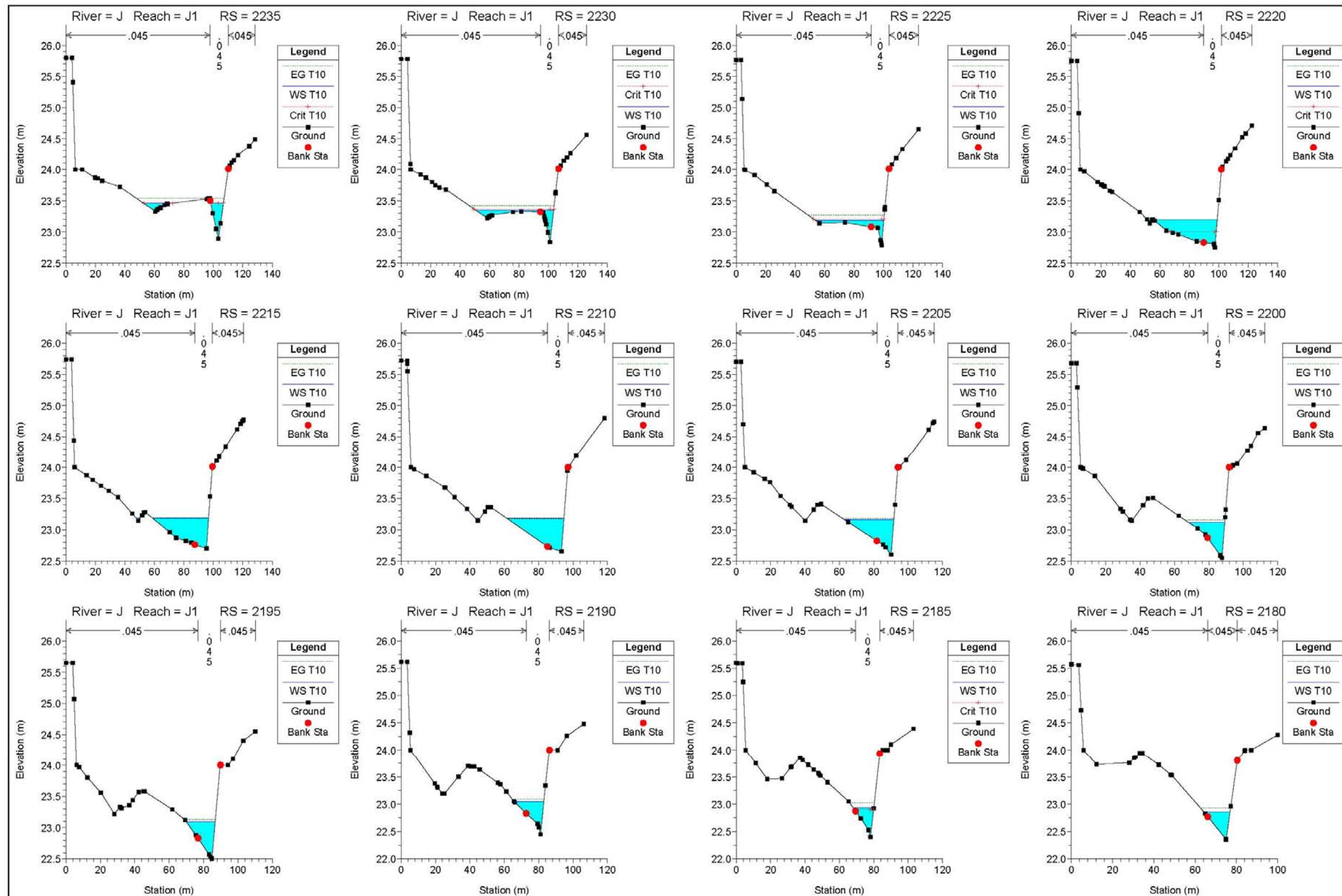
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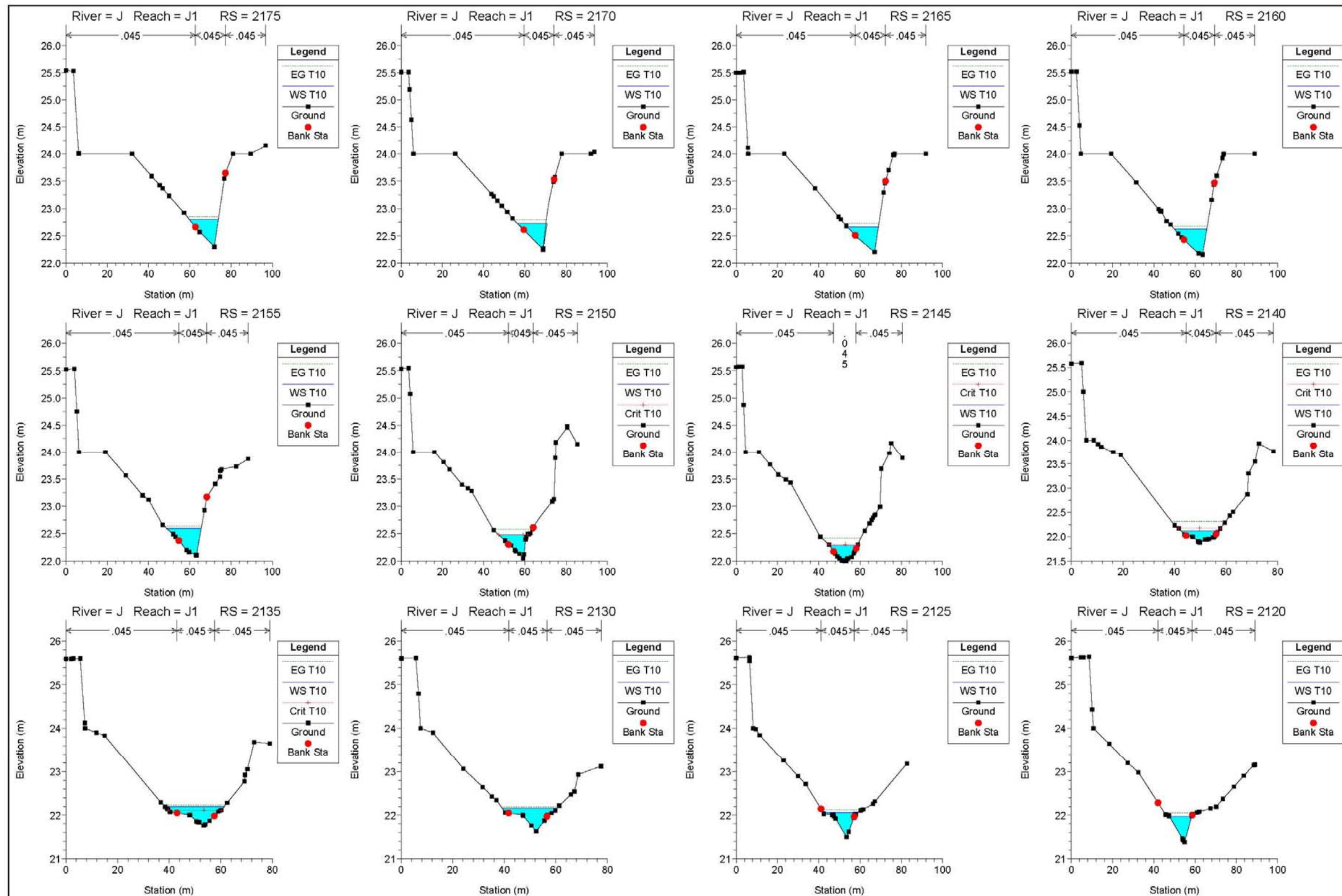
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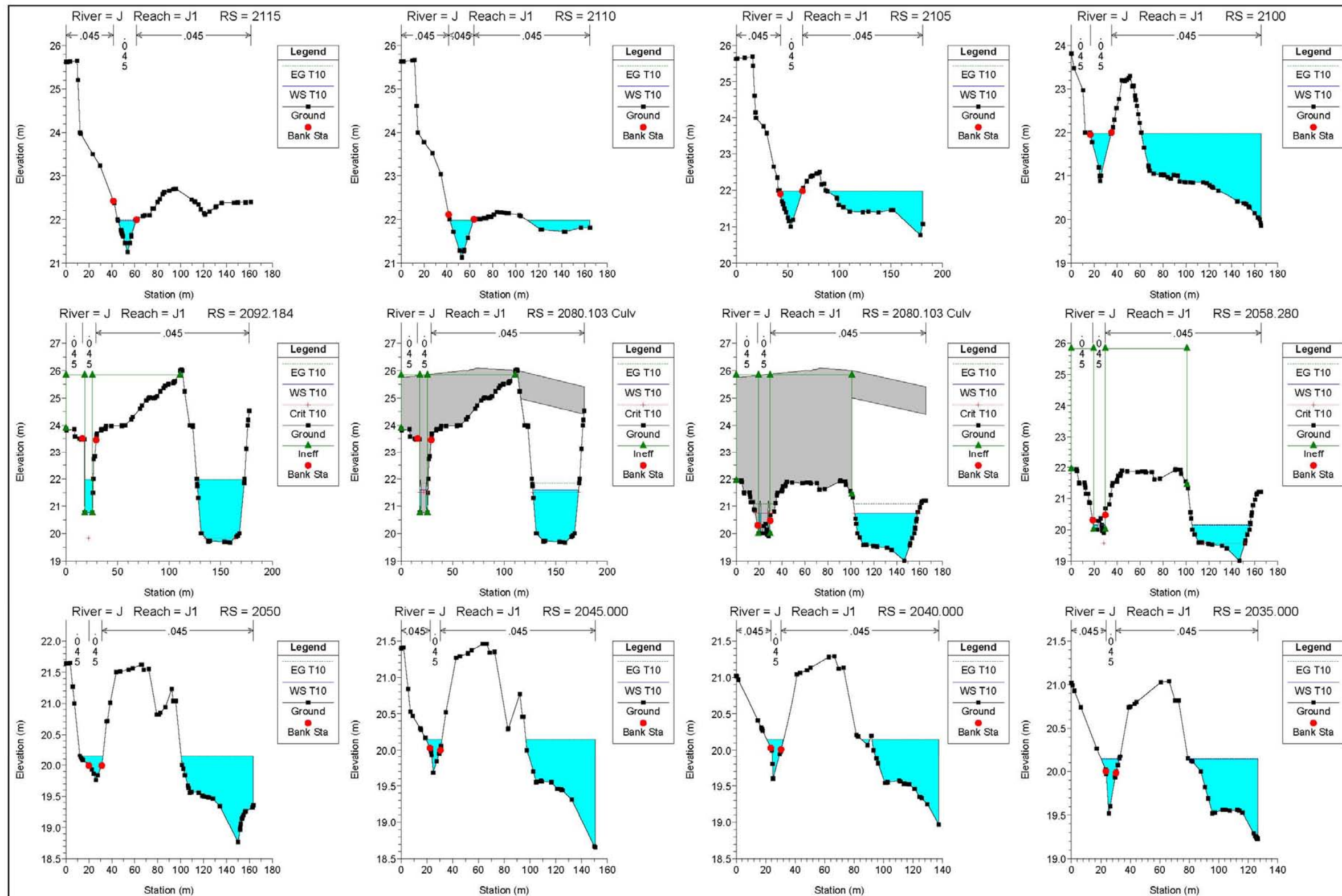
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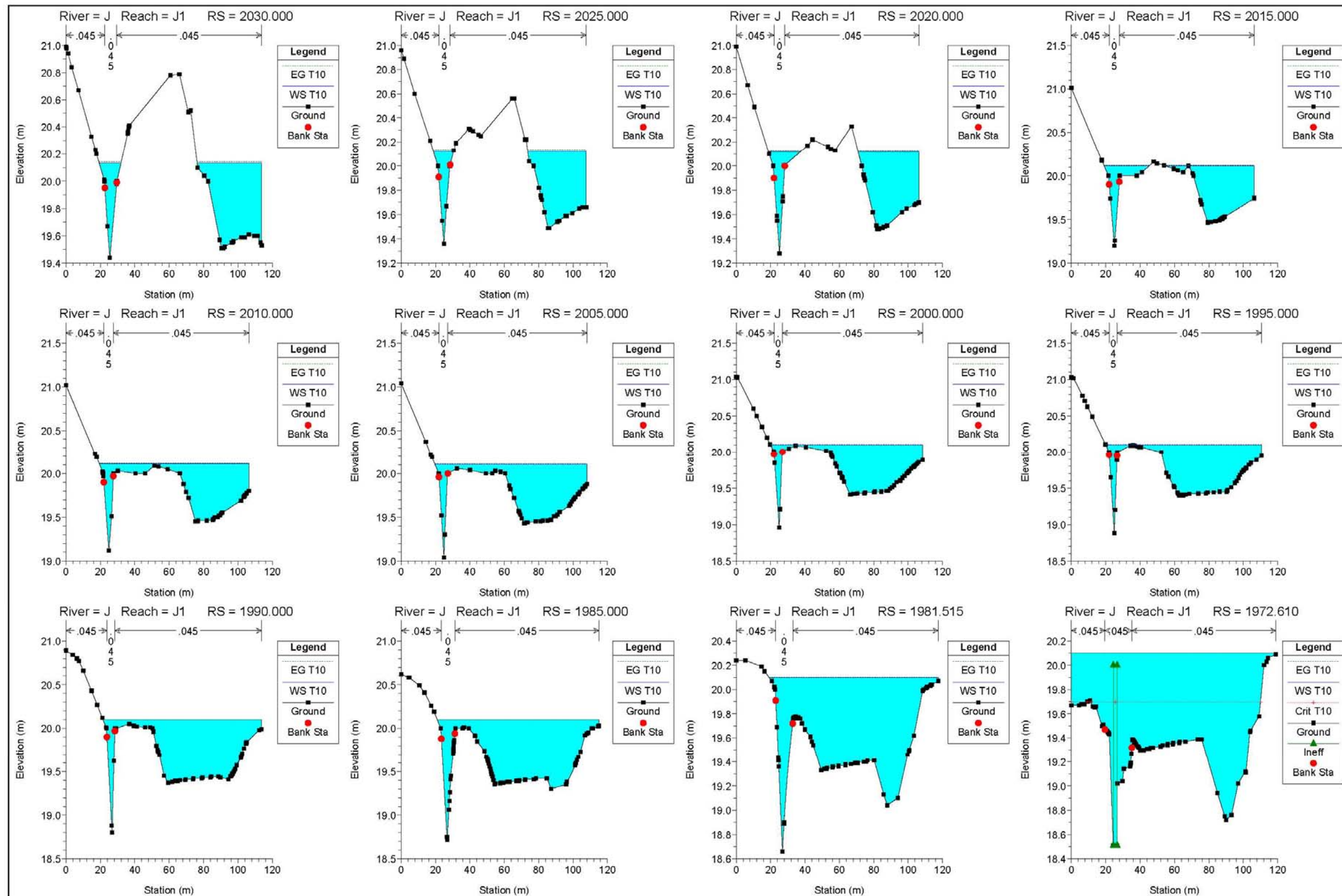
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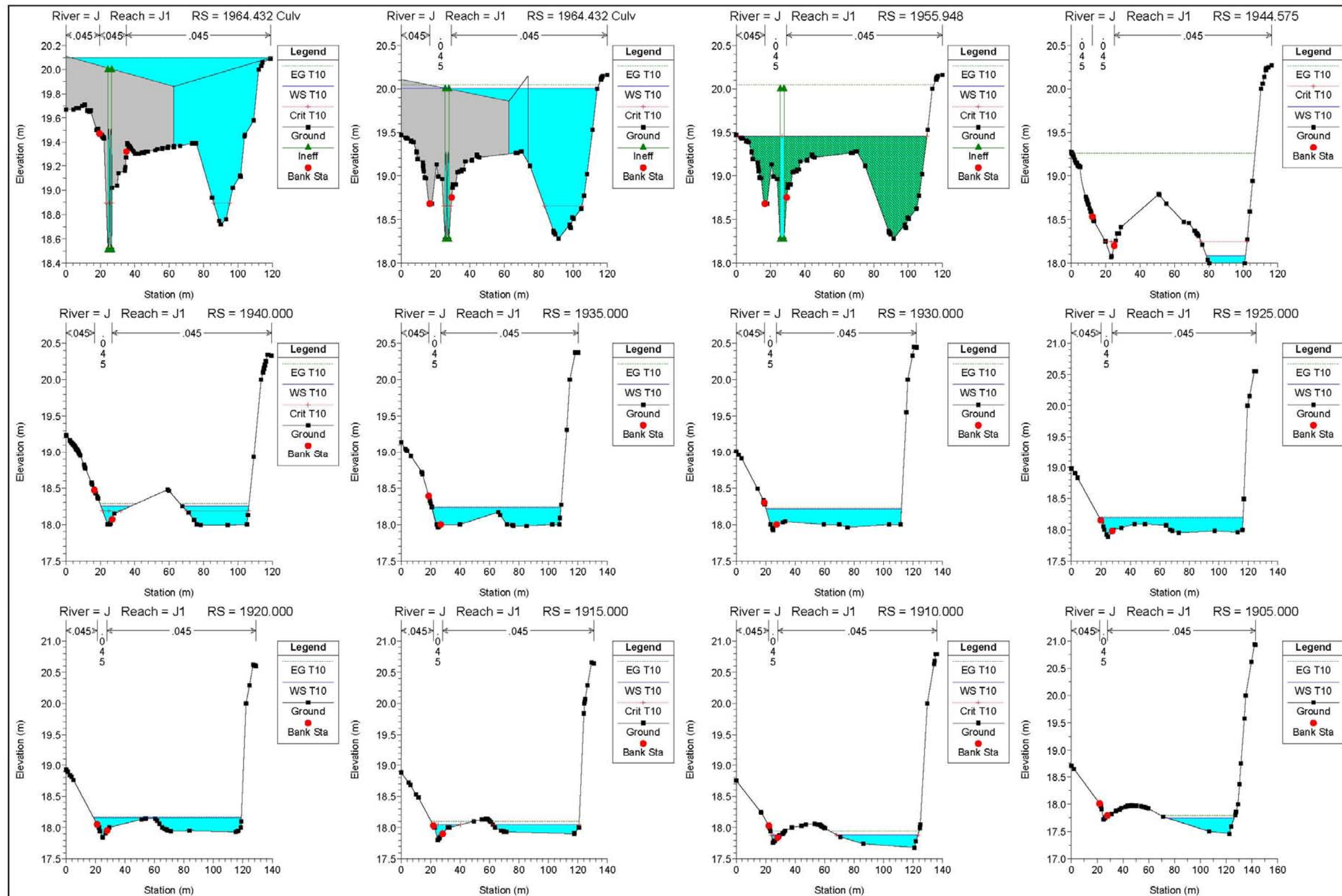
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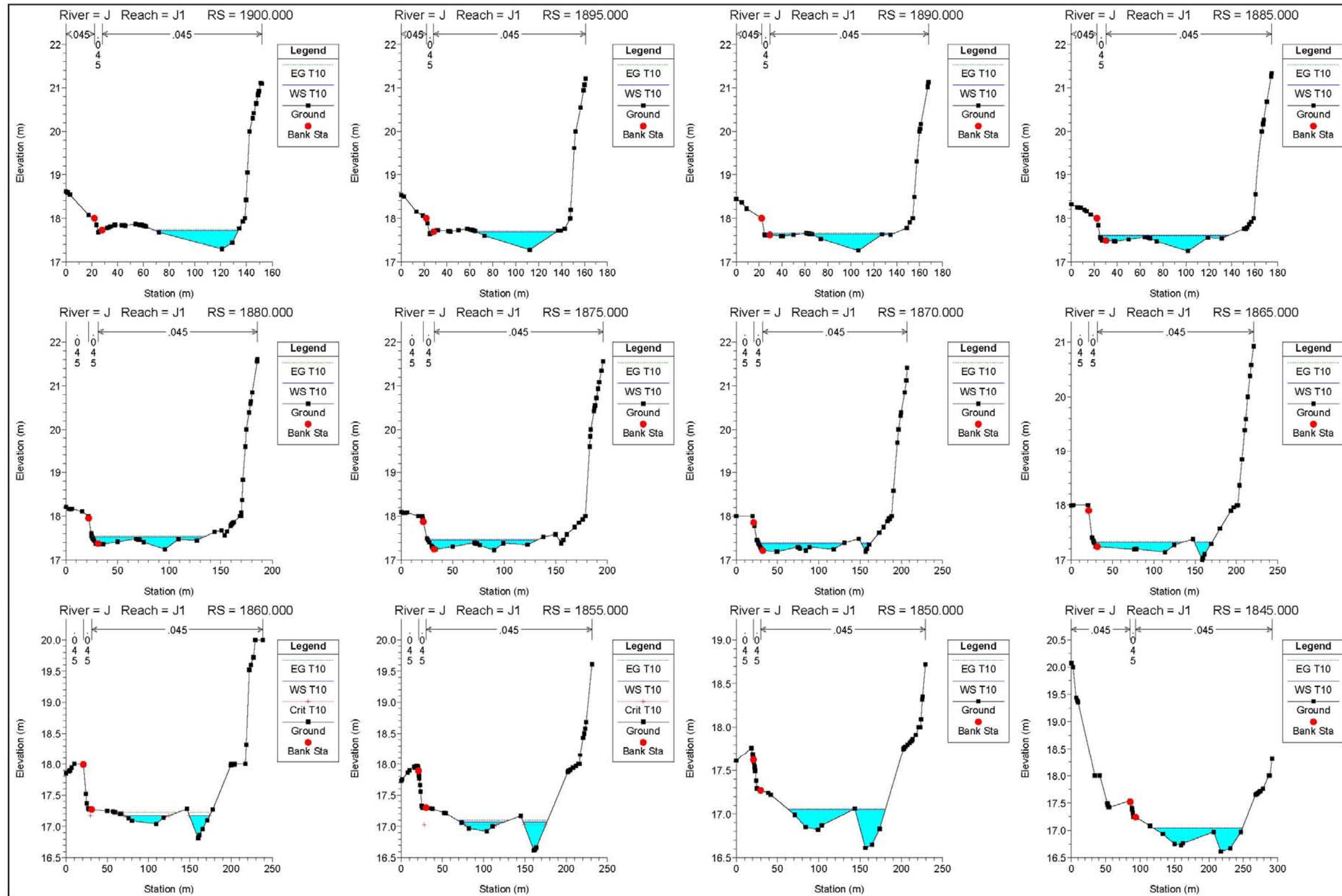
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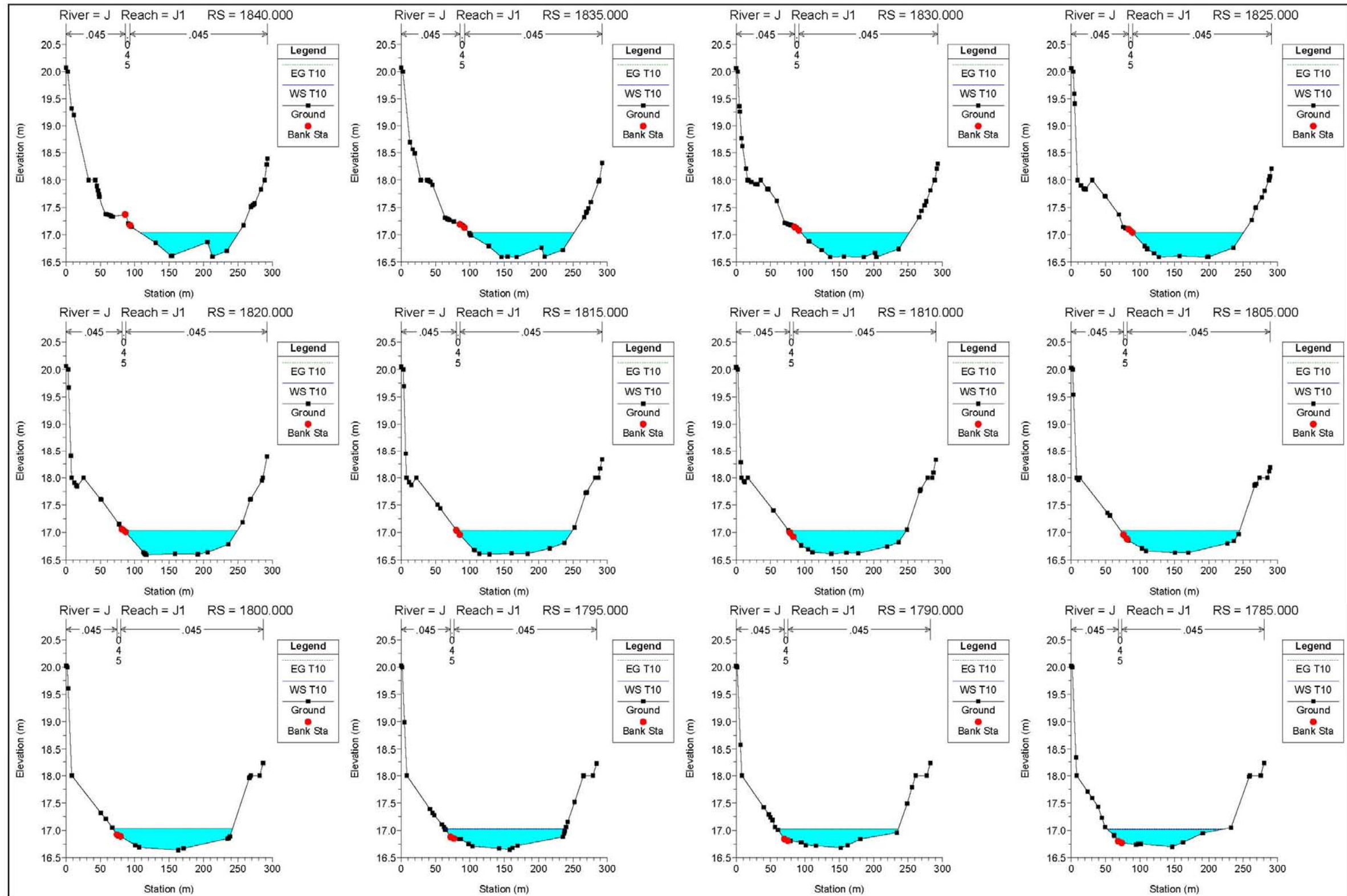
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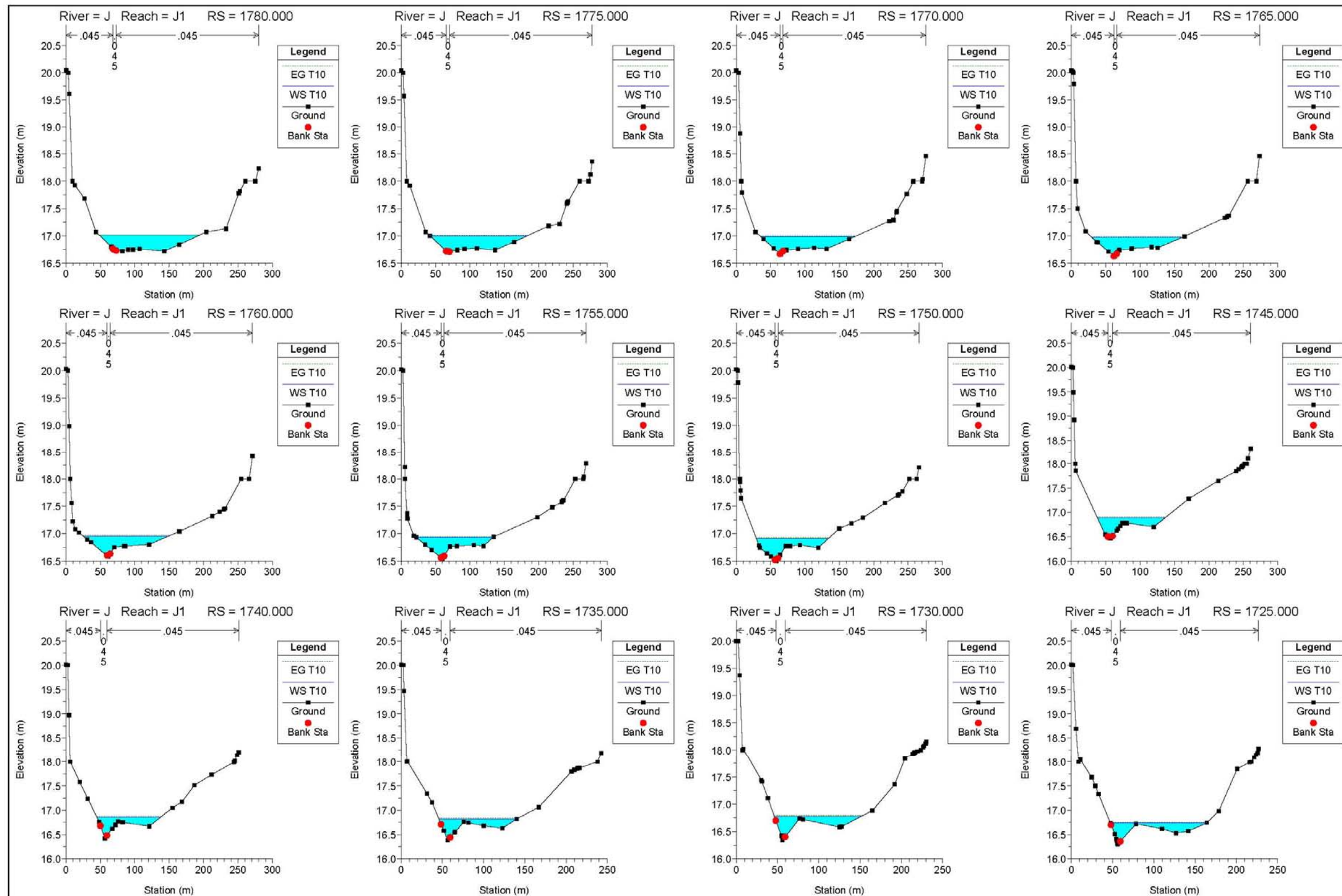
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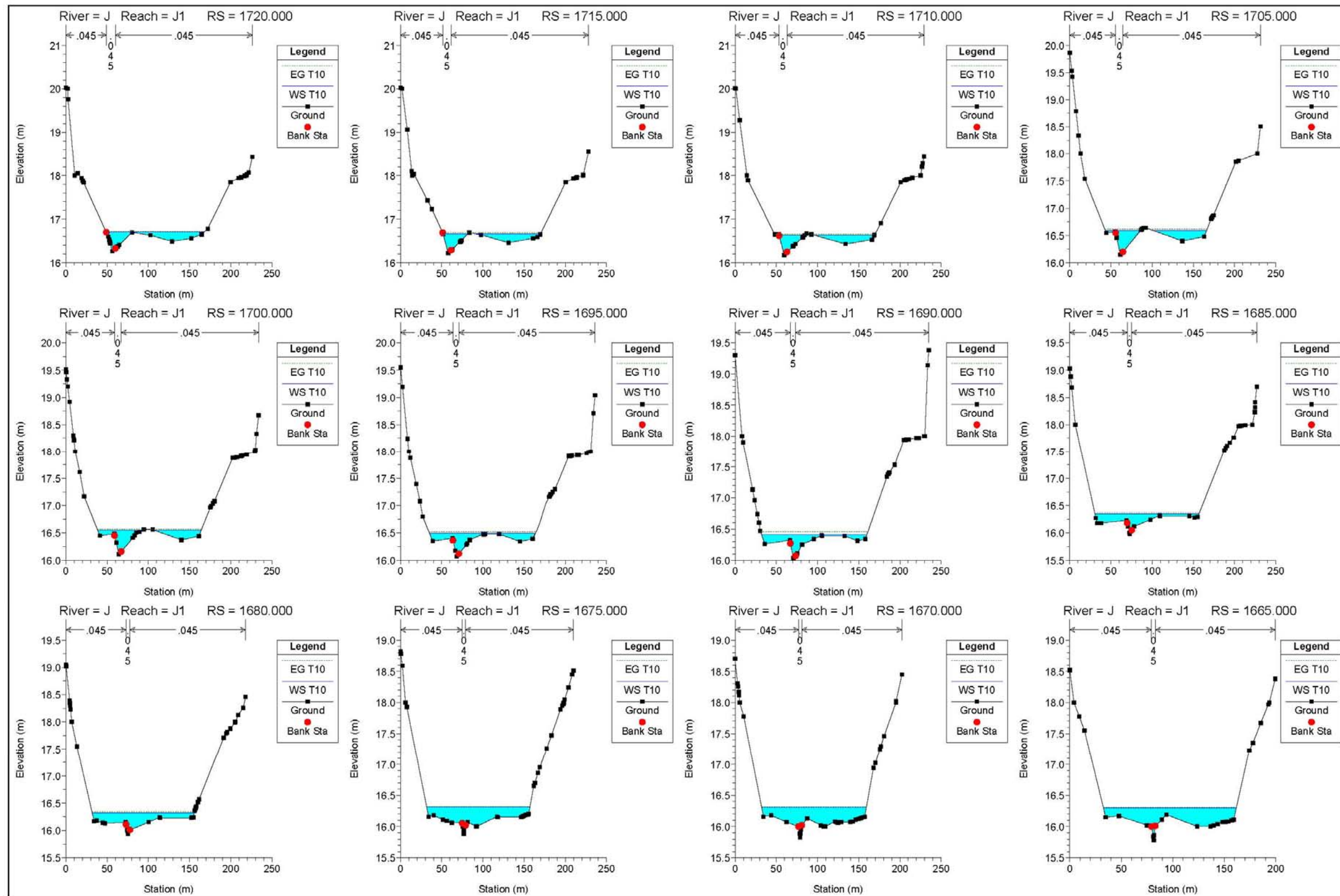
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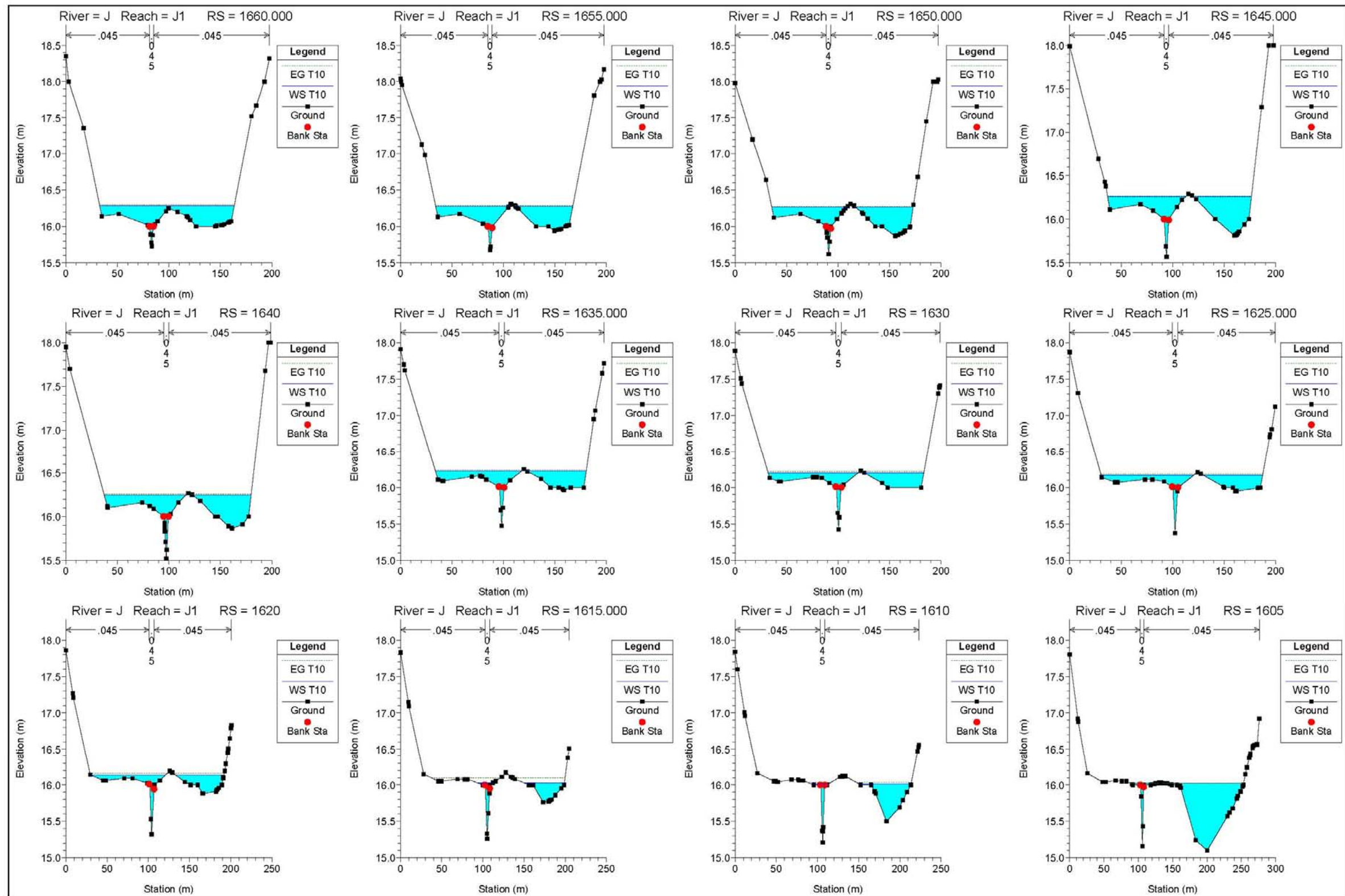


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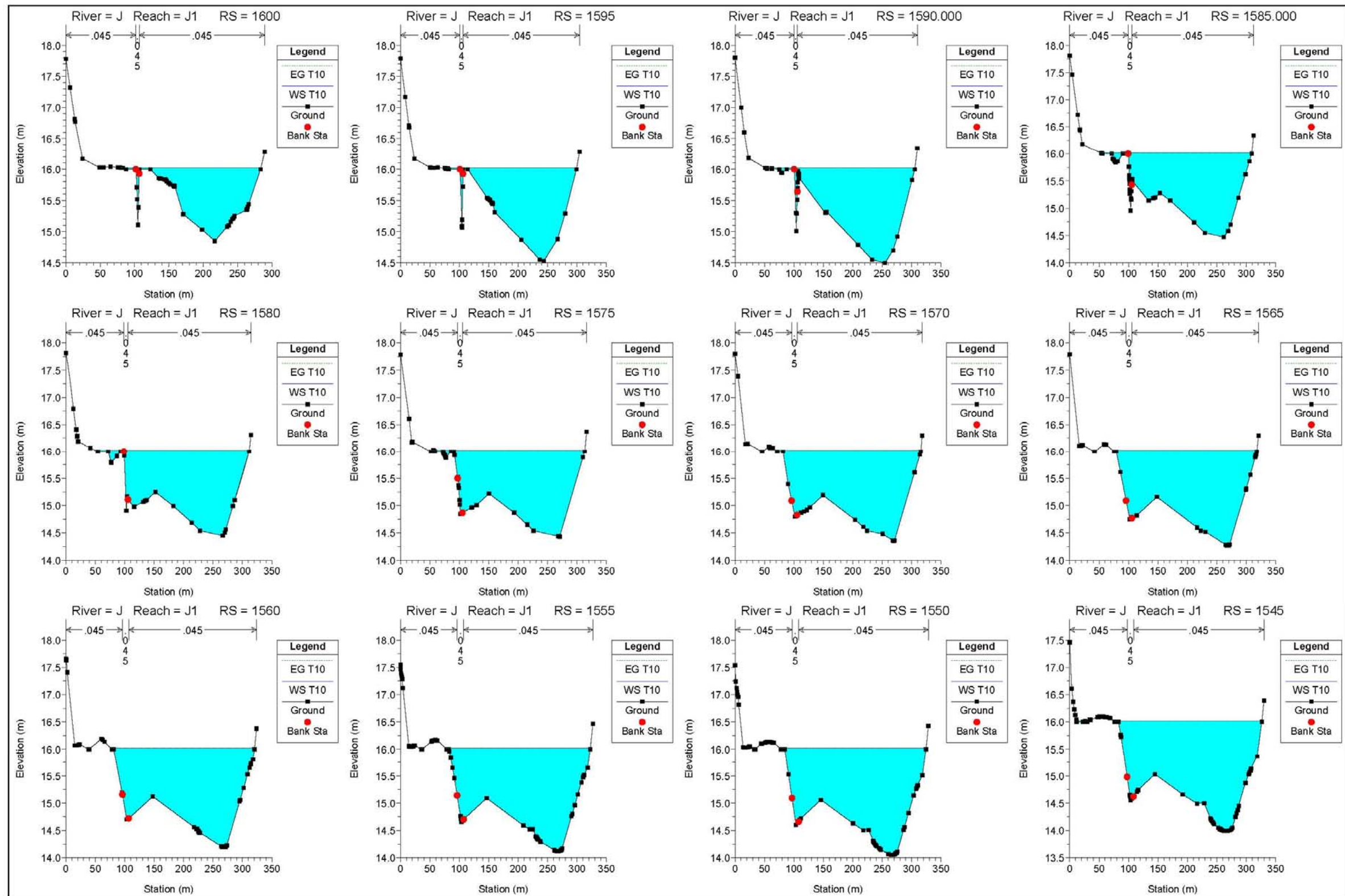


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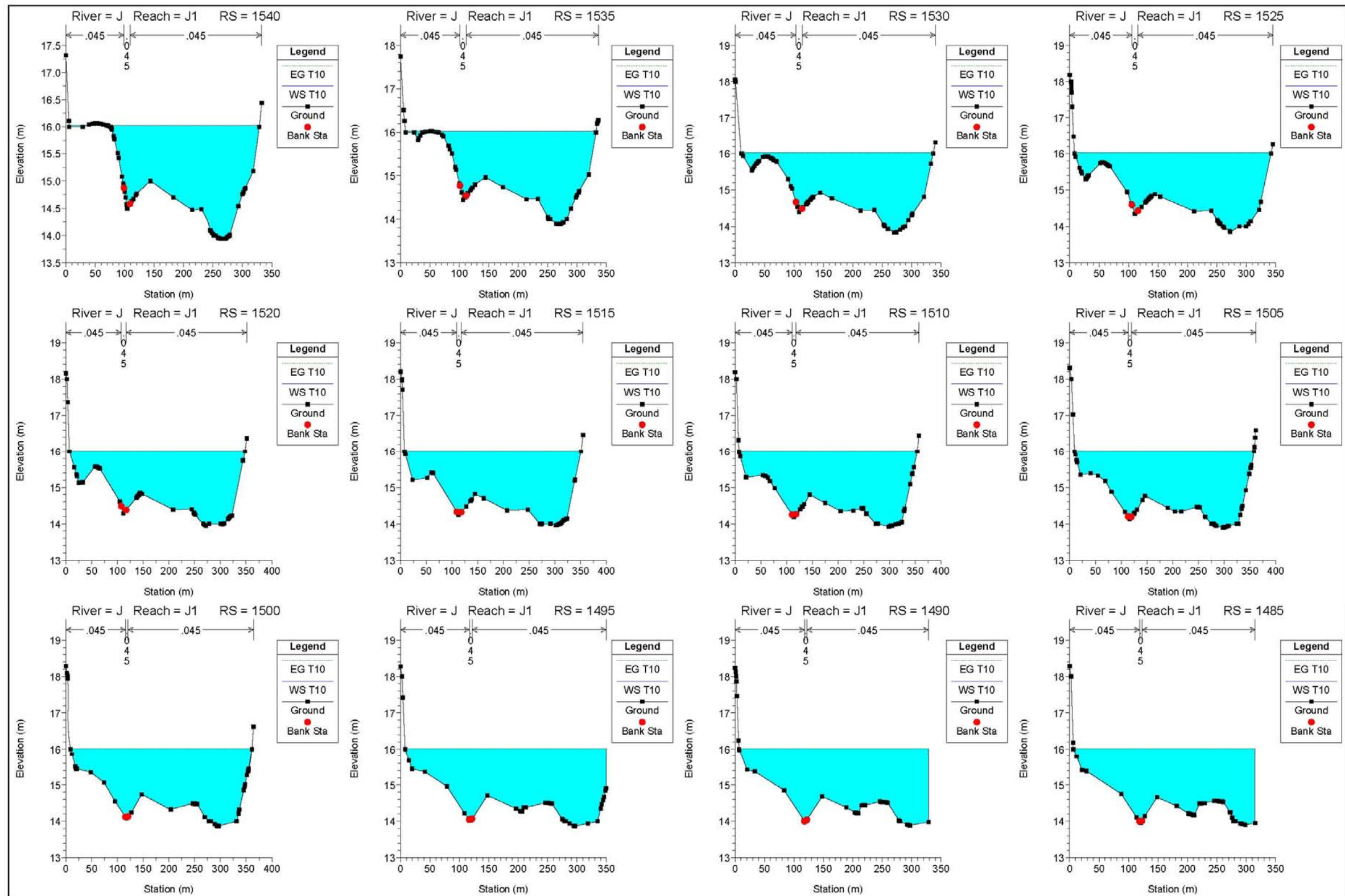




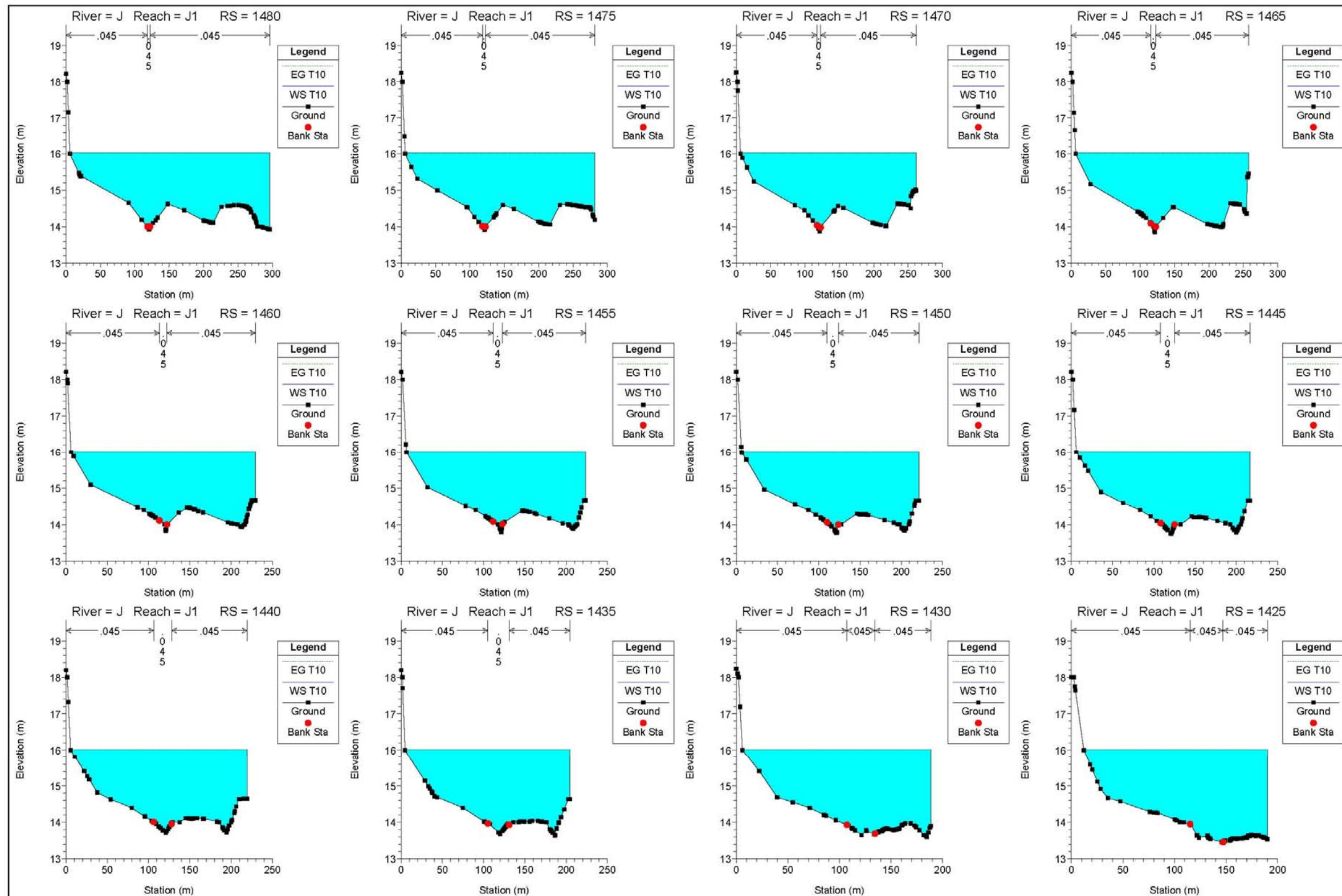
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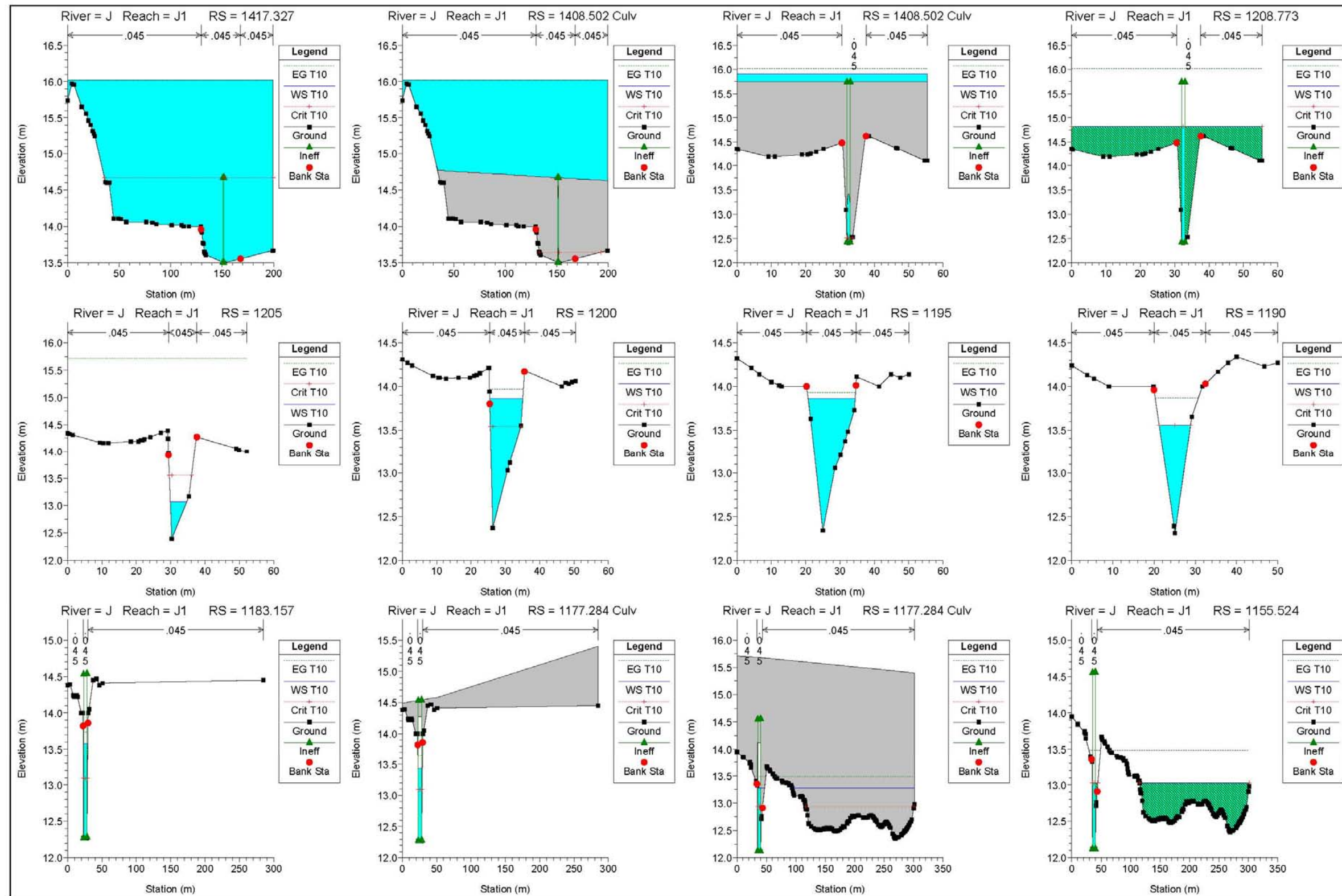
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3.4.4.- Tablas de resultados

HEC-RAS Plan: Plan 01 River: J Reach: J1 Profile: T10

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
J1	3200	T10	3.78	39.45	39.87	39.97	40.18	0.106054	2.49	1.52	7.47	1.76
J1	3195	T10	3.78	38.92	39.49	39.57	39.77	0.061484	2.37	1.59	5.52	1.41
J1	3190	T10	3.78	38.39	39.15	39.24	39.48	0.053305	2.56	1.47	3.88	1.33
J1	3185	T10	3.78	37.95	38.54	38.72	39.11	0.094105	3.36	1.12	2.94	1.74
J1	3180	T10	3.78	37.77	38.28	38.39	38.66	0.067039	2.73	1.39	4.03	1.49
J1	3175	T10	3.78	37.59	38.29	38.2	38.42	0.01537	1.57	2.41	5.32	0.74
J1	3170	T10	3.78	37.42	38.11	38.11	38.31	0.030446	1.95	1.94	5.17	1.02
J1	3165	T10	3.78	37.24	37.95	37.96	38.15	0.033664	1.99	1.9	5.35	1.07
J1	3160	T10	3.78	37.06	37.84	37.8	37.99	0.022695	1.75	2.16	5.5	0.89
J1	3155	T10	3.78	36.88	37.66	37.66	37.86	0.02989	1.98	1.91	4.92	1.01
J1	3150	T10	3.78	36.7	37.41	37.47	37.68	0.043274	2.26	1.67	4.66	1.21
J1	3145	T10	3.78	36.52	37.22	37.26	37.46	0.041694	2.19	1.73	4.96	1.18
J1	3135	T10	3.78	36.16	37.24	36.67	37.25	0.000863	0.52	7.52	11.73	0.19
J1	3130	T10	3.78	35.98	37.08	36.7	37.23	0.014311	1.73	2.19	2	0.53
J1	3124.685		Culvert									
J1	3117.611	T10	3.78	35.84	36.55	36.55	36.91	0.022242	2.65	1.43	5.66	1
J1	3110	T10	3.78	35.69	36.62	36.31	36.68	0.005036	1.08	3.5	5.81	0.44
J1	3105	T10	3.78	35.61	36.59		36.65	0.005007	1.08	3.54	6.62	0.44
J1	3100	T10	3.78	35.53	36.55		36.62	0.006406	1.16	3.26	6.24	0.5
J1	3095	T10	3.78	35.46	36.53		36.59	0.005487	1.12	3.39	6.17	0.46
J1	3090	T10	3.78	35.38	36.3	36.3	36.52	0.031951	2.1	1.8	4.08	1.01
J1	3085	T10	3.78	35.31	36.22	36.06	36.3	0.00858	1.3	3.34	10.58	0.55
J1	3080	T10	3.78	35.23	36.13		36.24	0.013613	1.49	2.69	8.74	0.69
J1	3075	T10	3.78	35.15	36.09		36.18	0.00911	1.31	3.04	8.92	0.58
J1	3070	T10	3.78	35.08	36.08		36.14	0.005537	1.05	3.74	10.15	0.46
J1	3065	T10	3.78	35	36.08		36.11	0.002446	0.76	5.1	11.25	0.31
J1	3060	T10	3.78	34.93	36.03		36.09	0.005943	1.06	3.61	8.65	0.46
J1	3055	T10	3.78	34.85	35.91		36.04	0.014972	1.57	2.41	4.52	0.69
J1	3050.433	T10	3.78	34.78	35.89		35.97	0.008297	1.27	2.98	5.29	0.54
J1	3045	T10	3.78	34.7	35.85		35.93	0.008077	1.25	3.01	5.16	0.52
J1	3040	T10	3.78	34.62	35.79		35.88	0.009782	1.35	2.8	4.79	0.56
J1	3035	T10	3.78	34.55	35.75		35.84	0.008551	1.28	2.95	4.89	0.53
J1	3030	T10	3.78	34.47	35.71		35.79	0.008229	1.25	3.01	4.83	0.51
J1	3025	T10	3.78	34.39	35.68		35.75	0.007182	1.22	3.1	4.77	0.48
J1	3020	T10	3.78	34.32	35.64		35.72	0.007246	1.23	3.06	4.63	0.48
J1	3015	T10	3.78	34.24	35.5		35.65	0.017884	1.76	2.14	3.46	0.71
J1	3009.493	T10	3.78	34.16	35.41		35.56	0.015884	1.75	2.16	3.56	0.71
J1	3005	T10	3.78	34.09	35.31	35.18	35.48	0.017766	1.83	2.06	3.38	0.75
J1	3000	T10	3.78	34.01	35.09	35.09	35.36	0.032229	2.29	1.65	3.08	1
J1	2995	T10	3.78	33.92	34.52	34.69	35.05	0.114193	3.42	1.2	3.67	1.81
J1	2990	T10	3.78	33.82	34.71	34.61	34.86	0.016769	1.74	2.17	4.28	0.77
J1	2985	T10	3.78	33.73	34.67		34.79	0.011103	1.55	2.58	5.91	0.64
J1	2980	T10	3.78	33.63	34.63		34.73	0.008547	1.43	2.86	6.33	0.57
J1	2975	T10	3.78	33.54	34.6		34.69	0.007543	1.35	3.08	7.22	0.54
J1	2970	T10	3.78	33.44	34.55		34.65	0.008971	1.42	2.84	6.54	0.58
J1	2965	T10	3.78	33.34	34.48		34.6	0.010296	1.49	2.63	5.97	0.61
J1	2960	T10	3.78	33.25	34.34		34.52	0.020539	1.87	2.02	3.89	0.83
J1	2955	T10	3.78	33.15	34.23		34.42	0.019775	1.9	1.99	3.53	0.81
J1	2950	T10	3.78	33.06	34.16		34.32	0.016544	1.76	2.14	3.73	0.74
J1	2945	T10	3.78	32.96	34.07		34.23	0.017601	1.79	2.11	3.76	0.76

HEC-RAS Plan: Plan 01 River: J Reach: J1 Profile: T10

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
J1	2940	T10	3.78	32.87	33.97		34.14	0.018973	1.84	2.05	3.73	0.79
J1	2935	T10	3.78	32.77	33.92		34.05	0.014004	1.63	2.32	4.04	0.69
J1	2930	T10	3.78	32.67	33.68	33.68	33.94	0.031345	2.24	1.69	3.31	1
J1	2925	T10	3.78	32.58	33.51	33.53	33.77	0.03471	2.29	1.65	3.54	1.07
J1	2920	T10	3.78	32.48	33.43	33.39	33.62	0.023241	1.92	1.96	4.15	0.89
J1	2915	T10	3.78	32.39	33.37		33.51	0.016158	1.66	2.28	4.66	0.76
J1	2910	T10	3.78	32.29	33.3		33.43	0.014249	1.6	2.37	4.66	0.71
J1	2905	T10	3.78	32.19	33.19		33.35	0.018674	1.78	2.12	4.27	0.81
J1	2900	T10	3.78	32.1	33.03	33	33.23	0.02579	2.01	1.88	4.07	0.94
J1	2895	T10	3.78	32	32.88	32.88	33.1	0.029294	2.06	1.83	4.23	1
J1	2890	T10	3.78	31.92	32.84	32.51	32.91	0.005332	1.14	3.3	4.99	0.45
J1	2885	T10	3.78	31.84	32.81		32.88	0.005407	1.16	3.25	4.8	0.45
J1	2880	T10	3.78	31.76	32.78		32.85	0.005645	1.18	3.19	4.77	0.46
J1	2875	T10	3.78	31.68	32.77		32.83	0.004028	1.05	3.59	4.97	0.39
J1	2870	T10	3.78	31.6	32.74		32.8	0.004814	1.12	3.37	4.82	0.43
J1	2865	T10	3.78	31.52	32.73		32.78	0.00318	0.95	3.99	5.48	0.35
J1	2860	T10	3.78	31.44	32.67		32.75	0.006855	1.28	2.95	4.4	0.5
J1	2855	T10	3.78	31.36	32.49		32.69	0.020815	1.97	1.91	3.22	0.82
J1	2850	T10	3.78	31.28	32.3	32.29	32.55	0.030635	2.25	1.68	3.23	0.99
J1	2845	T10	3.78	31.2	32.15	32.15	32.39	0.030045	2.17	1.74	3.64	1
J1	2840	T10	3.78	31.12	31.88	31.96	32.19	0.051224	2.5	1.51	4.03	1.3
J1	2835	T10	3.78	31.04	31.76	31.85	32.1	0.056847	2.57	1.47	4.09	1.37
J1	2830	T10	3.78	30.96	31.8	31.77	31.97	0.02318	1.83	2.06	4.9	0.9
J1	2825	T10	3.78	30.89	31.73		31.86	0.016987	1.59	2.37	5.56	0.78
J1	2820	T10	3.78	30.81	31.65		31.78	0.017214	1.58	2.39	5.74	0.78
J1	2815	T10	3.78	30.73	31.61		31.7	0.011165	1.33	2.84	6.42	0.64
J1	2810	T10	3.78	30.65	31.57		31.64	0.008268	1.18	3.2	6.89	0.55
J1	2805	T10	3.78	30.57	31.53		31.6	0.008056	1.19	3.18	6.63	0.55
J1	2800	T10	3.78	30.49	31.46		31.55	0.010712	1.36	2.77	5.74	0.63
J1	2795	T10	3.78	30.41	31.42		31.5	0.008565	1.26	2.99	5.85	0.56
J1	2790	T10	3.78	30.33	31.36		31.45	0.010419	1.39	2.72	5.28	0.62
J1	2785	T10	3.78	30.25	31.28		31.39	0.012788	1.52	2.48	4.83	0.68
J1	2780	T10	3.78	30.17	31.21		31.33	0.012478	1.52	2.48	4.73	0.67
J1	2775	T10	3.78	30.09	31.14		31.26	0.013579	1.58	2.39	4.54	0.7
J1	2770	T10	3.78	30.01	30.98	30.93	31.17	0.022388	1.92	1.97	4.02	0.88
J1	2765	T10	3.78	29.95	31.02		31.09	0.005112	1.14	3.32	4.87	0.44
J1	2760	T10	3.78	29.9	31.01		31.06	0.00422	1.06	3.57	5.12	0.4
J1	2755	T10	3.78	29.84	31		31.04	0.00308	0.94	4.04	5.54	0.35
J1	2750	T10	3.78	29.78	30.99		31.03	0.002392	0.84	4.51	6.11	0.31
J1	2745	T10	3.78	29.73	30.98		31.01	0.0023	0.82	4.63	6.38	0.31
J1	2740	T10	3.78	29.67	30.98		31	0.001608	0.71	5.35	7.04	0.26
J1	2735	T10	3.78	29.62	30.97		30.99	0.001137	0.61	6.15	7.69	0.22
J1	2730	T10	3.78	29.56	30.95		30.98	0.002216	0.77	4.9	7.13	0.3
J1	2725	T10	3.78	29.51	30.9		30.96	0.005496	1.09	3.47	5.65	0.44
J1	2720	T10	3.78	29.45	30.9		30.94	0.002833	0.85	4.44	6.51	0.33
J1	2715	T10	3.78	29.4	30.68	30.68	30.89	0.036125	2	1.89	4.69	1.01
J1	2710	T10	3.78	29.34	30.4	30.45	30.68	0.043929	2.34	1.62	3.87	1.16
J1	2705	T10	3.78	29.29	30.25	30.29	30.52	0.041343	2.33	1.62	3.73	1.13
J1	2700	T10	3.78	29.23	30.31	30.08	30.39	0.008646	1.28	2.96	5.64	0.56
J1	2695	T10	3.78	29.17	30.26		30.34	0.009597	1.32	2.87	5.68	0.59
J1	2690	T10	3.78	29.12	30.13		30.28	0.015122	1.74	2.26	4.97	0.74

HEC-RAS Plan: Plan 01 River: J Reach: J1 Profile: T10

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
J1	2685	T10	3.78	29.06	30.14		30.21	0.005961	1.16	3.75	11.13	0.48
J1	2680	T10	3.78	29.01	30.1		30.17	0.008352	1.27	3.59	14.98	0.55
J1	2675	T10	3.78	28.95	30.06		30.13	0.007229	1.22	3.88	22.26	0.52
J1	2670	T10	3.78	28.9	29.82	29.82	30.05	0.029661	2.13	1.78	3.85	1
J1	2665	T10	3.78	28.84	29.88	29.6	29.93	0.005412	1.05	3.62	7.12	0.46
J1	2660	T10	3.78	28.79	29.82		29.9	0.00774	1.21	3.11	5.99	0.54
J1	2655	T10	3.78	28.73	29.77		29.86	0.008614	1.28	2.95	5.67	0.57
J1	2650	T10	3.78	28.68	29.72		29.81	0.009985	1.36	2.78	5.43	0.61
J1	2645	T10	3.78	28.62	29.64		29.75	0.012311	1.48	2.55	5.03	0.66
J1	2640	T10	3.78	28.57	29.6		29.69	0.009748	1.33	2.84	5.51	0.59
J1	2635	T10	3.78	28.51	29.56		29.64	0.008331	1.26	3	5.61	0.55
J1	2630	T10	3.78	28.45	29.51		29.6	0.009556	1.33	2.84	5.4	0.59
J1	2625	T10	3.78	28.4	29.47		29.55	0.008208	1.26	3.01	5.64	0.55
J1	2620	T10	3.78	28.34	29.47		29.51	0.003591	0.88	4.28	7.6	0.37
J1	2615	T10	3.78	28.29	29.41		29.48	0.007833	1.21	3.13	5.89	0.53
J1	2610	T10	3.78	28.23	29.36		29.44	0.008468	1.28	2.95	5.22	0.54
J1	2605	T10	3.78	28.18	29.31		29.4	0.009147	1.34	2.82	5	0.57
J1	2600	T10	3.78	28.12	29.24		29.35	0.011006	1.45	2.61	4.67	0.62
J1	2595	T10	3.78	28.07	29.05	29.02	29.26	0.025057	2	1.89	3.95	0.92
J1	2590	T10	3.78	28.01	28.9	28.9	29.12	0.029336	2.08	1.82	4.15	1
J1	2585	T10	3.78	27.9	28.36	28.51	28.85	0.093473	3.11	1.21	3.73	1.74
J1	2580	T10	3.78	27.78	28.63	28.45	28.74	0.010699	1.49	2.54	4.4	0.63
J1	2575	T10	3.78	27.67	28.51		28.67	0.018133	1.77	2.13	4.3	0.81
J1	2570	T10	3.78	27.55	28.5		28.59	0.009089	1.34	2.83	5.28	0.58
J1	2565	T10	3.78	27.43	28.27	28.27	28.5	0.029879	2.1	1.8	4.13	1.01
J1	2560	T10	3.78	27.32	28.04	28.1	28.28	0.071205	2.17	1.75	7.93	1.45
J1	2555	T10	3.78	27.2	27.85	27.93	28.15	0.054652	2.4	1.57	4.81	1.34
J1	2550	T10	3.78	27.08	27.73	27.82	28.04	0.058905	2.48	1.53	4.71	1.39
J1	2545	T10	3.78	26.97	27.61	27.62	27.79	0.033269	1.87	2.02	6.34	1.05
J1	2540	T10	3.78	26.85	27.54	27.49	27.66	0.019808	1.51	2.5	7.3	0.82
J1	2535	T10	3.78	26.73	27.48		27.57	0.013453	1.33	2.85	7.58	0.69
J1	2530	T10	3.78	26.61	27.39		27.5	0.016074	1.47	2.57	6.62	0.75
J1	2525	T10	3.78	26.5	27.31		27.42	0.015467	1.48	2.55	6.26	0.74
J1	2520	T10	3.78	26.38	27.24		27.34	0.012909	1.4	2.69	6.26	0.68
J1	2515	T10	3.78	26.26	27.23		27.29	0.006278	1.06	3.57	7.41	0.49
J1	2510	T10	3.78	26.15	27.16		27.24	0.01014	1.3	2.9	6.19	0.61
J1	2505	T10	3.78	26.03	26.92	26.92	27.15	0.030487	2.12	1.78	4	1.01
J1	2500	T10	3.78	25.95	26.31	26.48	26.85	0.119142	3.25	1.16	4.03	1.93
J1	2495	T10	3.78	25.89	26.37	26.28	26.46	0.01418	1.36	2.77	7.31	0.71
J1	2490	T10	3.78	25.82	26.34		26.4	0.008055	1.05	3.59	9.16	0.54
J1	2485	T10	3.78	25.76	26.31		26.36	0.00651	0.95	3.98	10.15	0.48
J1	2480	T10	3.78	25.7	26.29		26.33	0.005128	0.86	4.39	10.87	0.43
J1	2475	T10	3.78	25.63	26.27		26.3	0.004605	0.83	4.57	11.08	0.41
J1	2470	T10	3.78	25.57	26.24		26.28	0.005523	0.85	4.44	11.89	0.44
J1	2465	T10	3.78	25.51	26.21		26.25	0.006061	0.89	4.24	11.36	0.47
J1	2460	T10	3.78	25.44	26.17		26.21	0.006896	0.94	4.02	10.91	0.49
J1	2455	T10	3.78	25.38	26.13		26.18	0.007585	1	3.79	10.14	0.52
J1	2450	T10	3.78	25.32	26.07		26.13	0.010001	1.11	3.39	9.43	0.59
J1	2445	T10	3.78	25.25	26.01		26.08	0.010335	1.17	3.22	8.47	0.61
J1	2440	T10	3.78	25.19	25.97		26.03	0.009278	1.12	3.37	8.72	0.58
J1	2435	T10	3.78	25.13	25.91		25.98	0.009975	1.17	3.23	8.28	0.6

HEC-RAS Plan: Plan 01 River: J Reach: J1 Profile: T10

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
J1	2430	T10	3.78	25.06	25.86		25.93	0.009781	1.17	3.23	8.13	0.59
J1	2425	T10	3.78	25	25.78		25.87	0.013967	1.37	2.76	7.14	0.7
J1	2420	T10	3.78	24.93	25.71		25.8	0.013864	1.37	2.77	7.13	0.7
J1	2415	T10	3.78	24.87	25.65		25.73	0.012197	1.28	2.95	7.66	0.66
J1	2410	T10	3.78	24.81	25.61		25.68	0.009305	1.15	3.28	8.18	0.58
J1	2405	T10	3.78	24.74	25.55		25.63	0.009981	1.19	3.18	7.95	0.6
J1	2400	T10	3.78	24.68	25.5		25.58	0.010017	1.21	3.12	7.58	0.6
J1	2395	T10	3.78	24.62	25.46		25.53	0.009115	1.17	3.24	7.78	0.58
J1	2390	T10	3.78	24.55	25.42		25.48	0.00826	1.15	3.29	7.48	0.55
J1	2385	T10	3.78	24.49	25.34		25.43	0.012468	1.36	2.79	6.68	0.67
J1	2380	T10	3.78	24.43	25.27		25.37	0.012753	1.38	2.74	6.53	0.68
J1	2375	T10	3.78	24.36	25.21		25.3	0.012003	1.35	2.8	6.55	0.66
J1	2370	T10	3.78	24.3	25.16		25.24	0.010647	1.3	2.92	6.65	0.62
J1	2365	T10	3.78	24.24	25.08		25.18	0.013985	1.44	2.63	6.29	0.71
J1	2360	T10	3.78	24.17	24.96		25.09	0.020576	1.65	2.29	5.9	0.85
J1	2355	T10	3.78	24.11	24.87	24.8	24.99	0.018867	1.56	2.42	6.46	0.81
J1	2350	T10	3.78	24.04	24.7	24.7	24.87	0.030415	1.83	2.06	6.19	1.01
J1	2345	T10	3.78	23.99	24.61	24.52	24.71	0.014764	1.36	2.77	7.6	0.72
J1	2340	T10	3.78	23.93	24.45	24.44	24.6	0.029064	1.73	2.19	6.99	0.99
J1	2335	T10	3.78	23.89	24.42		24.48	0.011754	1.23	3.42	11.91	0.65
J1	2330	T10	3.78	23.84	24.39		24.43	0.006696	0.94	4.76	18.07	0.49
J1	2325	T10	3.78	23.79	24.35		24.39	0.007991	1.02	4.34	16.85	0.53
J1	2320	T10	3.78	23.74	24.31		24.36	0.007278	0.97	4.9	48.9	0.51
J1	2315	T10	3.78	23.69	24.27		24.31	0.008353	1.03	4.62	49.31	0.55
J1	2310	T10	3.78	23.64	24.23		24.27	0.008202	1	4.89	50.11	0.54
J1	2305	T10	3.78	23.59	24.19		24.23	0.007439	0.96	5.13	51.21	0.51
J1	2300	T10	3.78	23.54	24.17		24.2	0.005175	0.82	6.35	53.37	0.43
J1	2295	T10	3.78	23.49	24.15		24.17	0.00502	0.8	6.7	53.96	0.42
J1	2290	T10	3.78	23.44	24.13		24.15	0.003662	0.7	8.44	64.17	0.36
J1	2285	T10	3.78	23.39	24.12		24.13	0.002586	0.65	10	72.67	0.31
J1	2280	T10	3.78	23.34	24.11		24.12	0.001781	0.54	12.2	84.68	0.26
J1	2275	T10	3.78	23.29	24.1		24.11	0.002289	0.59	12.34	111.46	0.29
J1	2270	T10	3.78	23.24	24.09		24.1	0.002125	0.6	12.71	122.95	0.28
J1	2265	T10	3.78	23.19	24.06	23.87	24.08	0.003075	0.73	10.28	118.55	0.34
J1	2260	T10	3.78	23.14	23.96	23.83	24.05	0.012214	1.33	2.88	9.75	0.66
J1	2255	T10	3.78	23.09	23.91		23.99	0.011116	1.26	3.37	17.22	0.63
J1	2250	T10	3.78	23.04	23.76	23.76	23.9	0.023572	1.68	2.35	11.17	0.9
J1	2245	T10	3.78	22.99	23.58	23.6	23.75	0.040826	1.84	2.09	8.53	1.14
J1	2240	T10	3.78	22.94	23.55	23.51	23.62	0.013569	1.24	3.57	22.13	0.68
J1	2235	T10	3.78	22.89	23.46	23.46	23.54	0.01966	1.34	3.51	28.32	0.8
J1	2230	T10	3.78	22.84	23.35	23.37	23.42	0.028981	1.35	4.19	53.17	0.93
J1	2225	T10	3.78	22.79	23.19	23.21	23.27	0.046238	1.48	3.69	46.7	1.13
J1	2220	T10	3.78	22.75	23.19	23	23.2	0.001511	0.43	10.86	46.21	0.23
J1	2215	T10	3.78	22.7	23.19		23.19	0.001147	0.42	11.12	40.88	0.21
J1	2210	T10	3.78	22.65	23.18		23.18	0.001444	0.5	9.59	35.03	0.23
J1	2205	T10	3.78	22.6	23.16		23.18	0.002949	0.66	7.17	29.76	0.33
J1	2200	T10	3.78	22.55	23.12		23.15	0.005353	0.86	5.1	21.21	0.44
J1	2195	T10	3.78	22.5	23.09		23.13	0.005007	0.85	4.91	16.79	0.43
J1	2190	T10	3.78	22.45	23.05		23.09	0.008194	0.98	4.28	17.34	0.53
J1	2185	T10	3.78	22.4	22.94	22.9	23.03	0.020918	1.33	2.89	12.13	0.82
J1	2180	T10	3.78	22.35	22.85		22.93	0.016611	1.23	3.12	12.51	0.74

HEC-RAS Plan: Plan 01 River: J Reach: J1 Profile: T10

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
J1	2175	T10	3.78	22.3	22.8		22.86	0.01121	1.07	3.65	14.04	0.62
J1	2170	T10	3.78	22.25	22.72		22.79	0.014714	1.16	3.37	14.29	0.7
J1	2165	T10	3.78	22.2	22.67		22.72	0.011217	1.06	3.75	15.29	0.61
J1	2160	T10	3.78	22.15	22.63		22.67	0.008384	0.97	4.15	15.76	0.54
J1	2155	T10	3.78	22.1	22.6		22.64	0.006562	0.91	4.53	16.81	0.48
J1	2150	T10	3.78	22.05	22.48	22.48	22.57	0.023962	1.42	2.87	13.98	0.88
J1	2145	T10	3.78	22	22.28	22.3	22.41	0.045064	1.64	2.37	13.37	1.16
J1	2140	T10	3.78	21.88	22.12	22.18	22.31	0.088272	1.95	2.01	14.57	1.55
J1	2135	T10	3.78	21.76	22.2	22.11	22.23	0.007797	0.83	4.96	23.16	0.51
J1	2130	T10	3.78	21.63	22.15		22.19	0.009962	0.91	4.43	21.13	0.57
J1	2125	T10	3.78	21.5	22.06		22.12	0.017024	1.08	3.54	17.12	0.72
J1	2120	T10	3.78	21.38	21.97		22.04	0.014197	1.17	3.22	10.82	0.69
J1	2115	T10	3.78	21.25	21.97		21.99	0.004216	0.7	5.39	15.86	0.38
J1	2110	T10	3.78	21.13	21.98		21.98	0.000402	0.25	19.33	75.23	0.12
J1	2105	T10	3.78	21	21.98		21.98	0.000014	0.05	66.7	115.19	0.02
J1	2100	T10	3.78	20.88	21.98		21.98	0.000001	0.02	137.13	122.58	0.01
J1	2092.184	T10	3.78	20.76	21.98	19.84	21.98	0.000001	0.03	100.51	54.74	0.01
J1	2080.103		Culvert									
J1	2058.28	T10	8.91	19.9	20.15	19.57	20.15	0.000246	0.1	34.52	58.13	0.08
J1	2050	T10	8.91	19.76	20.15		20.15	0.000084	0.08	53.67	83	0.05
J1	2045	T10	8.91	19.68	20.15		20.15	0.00012	0.11	45.11	66.2	0.06
J1	2040	T10	8.91	19.6	20.15		20.15	0.000284	0.17	32.93	61.91	0.1
J1	2035	T10	8.91	19.52	20.14		20.15	0.000606	0.29	26.69	59.03	0.15
J1	2030	T10	8.91	19.44	20.13		20.14	0.001261	0.45	20	50.22	0.22
J1	2025	T10	8.91	19.36	20.12		20.14	0.001396	0.48	18.69	45.81	0.23
J1	2020	T10	8.91	19.28	20.12		20.13	0.001153	0.47	20.26	53.76	0.21
J1	2015	T10	8.91	19.2	20.11		20.12	0.001178	0.51	23.39	77.68	0.22
J1	2010	T10	8.91	19.12	20.11		20.12	0.000999	0.49	26.83	86.94	0.2
J1	2005	T10	8.91	19.04	20.11		20.11	0.000743	0.4	29.84	88.51	0.17
J1	2000	T10	8.91	18.96	20.1		20.11	0.000573	0.36	32.3	88.51	0.15
J1	1995	T10	8.91	18.88	20.1		20.1	0.00043	0.33	35.54	90.54	0.13
J1	1990	T10	8.91	18.8	20.1		20.1	0.000289	0.28	40.35	92.22	0.11
J1	1985	T10	8.91	18.72	20.1		20.1	0.00016	0.22	48.48	93.92	0.08
J1	1981.515	T10	8.91	18.66	20.1		20.1	0.000079	0.17	60.7	98.39	0.06
J1	1972.61	T10	8.91	18.51	20.1	19.7	20.1	0.000027	0.12	90.56	118.94	0.04
J1	1964.432		Culvert									
J1	1955.948	T10	8.91	18.27	19.46	19.46	20.05	0.018765	3.41	2.61	109.8	1
J1	1944.575	T10	8.91	18.07	18.09	18.25	19.26	1.320168	1.08	1.86	23.53	3.7
J1	1940	T10	8.91	18	18.25	18.19	18.29	0.012132	0.74	10.45	56.13	0.58
J1	1935	T10	8.91	17.96	18.23		18.24	0.004461	0.47	17.53	87.5	0.36
J1	1930	T10	8.91	17.92	18.22		18.23	0.003287	0.42	19.59	91.89	0.31
J1	1925	T10	8.91	17.88	18.19		18.2	0.004917	0.56	17.71	97.45	0.38
J1	1920	T10	8.91	17.84	18.16		18.17	0.007194	0.72	15.9	100.24	0.47
J1	1915	T10	8.91	17.8	18.05	18.04	18.1	0.03548	1.23	8.73	77.73	0.98
J1	1910	T10	8.91	17.76	17.89	17.88	17.95	0.031717	0.73	8.37	62.18	0.83
J1	1905	T10	8.91	17.72	17.74		17.8	0.024721	0.18	8.5	52.57	0.53
J1	1900	T10	8.91	17.68	17.71		17.73	0.005613	0.11	14.48	66.24	0.27
J1	1895	T10	8.91	17.64	17.68		17.7	0.006072	0.12	14.55	71.81	0.29
J1	1890	T10	8.91	17.61	17.65		17.67	0.008717	0.19	14.26	106.04	0.37
J1	1885	T10	8.91	17.49	17.6		17.62	0.011585	0.47	14.47	111.38	0.51
J1	1880	T10	8.91	17.37	17.53		17.55	0.014387	0.59	13.47	109.19	0.58

HEC-RAS Plan: Plan 01 River: J Reach: J1 Profile: T10

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
J1	1875	T10	8.91	17.24	17.45		17.47	0.016266	0.66	12.91	109.28	0.63
J1	1870	T10	8.91	17.21	17.38		17.4	0.01283	0.52	14.17	114.62	0.54
J1	1865	T10	8.91	17.24	17.31		17.33	0.013896	0.38	14.34	126.78	0.52
J1	1860	T10	8.91	17.27	17.17	17.17	17.23	0.032806		8.81	79.5	0
J1	1855	T10	8.91	17.3	17.07	17.02	17.1	0.013275		11.3	81.58	0
J1	1850	T10	8.91	17.27	17.05		17.06	0.003894		19.43	115.57	0
J1	1845	T10	8.91	17.24	17.04		17.05	0.001659		27.63	129.87	0
J1	1840	T10	8.91	17.17	17.04		17.04	0.000624		38.6	143.85	0
J1	1835	T10	8.91	17.13	17.04		17.04	0.000336		47.62	152.97	0
J1	1830	T10	8.91	17.08	17.04		17.04	0.000236		53.56	157.38	0
J1	1825	T10	8.91	17.04	17.04		17.04	0.00021		56	160.99	0
J1	1820	T10	8.91	17.01	17.04		17.04	0.000197	0.02	57.28	164.62	0.05
J1	1815	T10	8.91	16.96	17.03		17.04	0.000208	0.04	56.68	168.44	0.06
J1	1810	T10	8.91	16.92	17.03		17.03	0.000224	0.06	55.65	170.96	0.07
J1	1805	T10	8.91	16.88	17.03		17.03	0.000264	0.09	53.13	172.84	0.08
J1	1800	T10	8.91	16.89	17.03		17.03	0.00034	0.11	49.35	173.84	0.09
J1	1795	T10	8.91	16.85	17.03		17.03	0.000451	0.14	45.55	175.43	0.11
J1	1790	T10	8.91	16.81	17.02		17.03	0.000796	0.22	38.57	176.12	0.15
J1	1785	T10	8.91	16.77	17.02		17.02	0.001205	0.3	33.29	166.79	0.19
J1	1780	T10	8.91	16.73	17.01		17.02	0.0014	0.35	30.1	145.49	0.21
J1	1775	T10	8.91	16.7	17		17.01	0.001826	0.42	27.61	141.9	0.25
J1	1770	T10	8.91	16.66	16.99		17	0.002382	0.49	25.24	137.84	0.28
J1	1765	T10	8.91	16.62	16.98		16.98	0.003008	0.59	23.08	132.37	0.32
J1	1760	T10	8.91	16.58	16.96		16.97	0.00388	0.7	20.72	124.67	0.37
J1	1755	T10	8.91	16.54	16.93		16.95	0.004117	0.74	19.47	112.18	0.39
J1	1750	T10	8.91	16.5	16.91		16.93	0.003705	0.73	19.27	105.07	0.37
J1	1745	T10	8.91	16.46	16.89		16.91	0.004309	0.8	17.86	98.61	0.4
J1	1740	T10	8.91	16.42	16.86		16.88	0.006949	0.9	15.05	92.48	0.49
J1	1735	T10	8.91	16.38	16.82		16.84	0.007641	0.88	14.75	93.77	0.51
J1	1730	T10	8.91	16.34	16.78		16.8	0.007581	0.85	15.53	105.54	0.5
J1	1725	T10	8.91	16.3	16.74		16.76	0.007438	0.8	16.4	116.64	0.49
J1	1720	T10	8.91	16.26	16.7		16.72	0.006927	0.77	16.94	118.77	0.47
J1	1715	T10	8.91	16.22	16.67		16.69	0.006843	0.81	16.26	110.82	0.48
J1	1710	T10	8.91	16.18	16.63		16.65	0.00681	0.82	15.99	104.94	0.48
J1	1705	T10	8.91	16.15	16.59		16.62	0.007644	0.88	15.11	108.23	0.51
J1	1700	T10	8.91	16.11	16.55		16.57	0.009087	0.99	14.67	111.46	0.56
J1	1695	T10	8.91	16.07	16.49		16.52	0.011638	1.13	14.43	127.81	0.63
J1	1690	T10	8.91	16.03	16.41		16.45	0.016953	1.31	12.76	128.03	0.76
J1	1685	T10	8.91	15.98	16.35		16.38	0.012777	1.1	14.06	126.23	0.65
J1	1680	T10	8.91	15.93	16.32		16.34	0.004557	0.69	19.75	123.85	0.39
J1	1675	T10	8.91	15.88	16.31		16.32	0.002011	0.48	25.61	125.42	0.26
J1	1670	T10	8.91	15.83	16.31		16.31	0.001474	0.43	28.22	126.98	0.23
J1	1665	T10	8.91	15.78	16.3		16.3	0.001536	0.46	27.98	129.01	0.24
J1	1660	T10	8.91	15.73	16.29		16.3	0.002087	0.56	25.53	130.77	0.28
J1	1655	T10	8.91	15.68	16.28		16.28	0.002137	0.59	24.67	126.61	0.28
J1	1650	T10	8.91	15.62	16.27		16.27	0.001861	0.56	25.6	128.93	0.27
J1	1645	T10	8.91	15.57	16.26		16.27	0.001724	0.55	26.15	132.11	0.26
J1	1640	T10	8.91	15.52	16.25		16.26	0.002131	0.6	24.93	136.86	0.28
J1	1635	T10	8.91	15.47	16.23		16.24	0.003692	0.79	21.34	142.11	0.37
J1	1630	T10	8.91	15.42	16.2		16.22	0.005044	0.89	19.41	145.75	0.43
J1	1625	T10	8.91	15.37	16.17		16.19	0.006154	0.97	18.01	147.89	0.47

HEC-RAS Plan: Plan 01 River: J Reach: J1 Profile: T10

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
J1	1620	T10	8.91	15.32	16.14		16.16	0.006496	1.03	17.02	149.12	0.49
J1	1615	T10	8.91	15.26	16.03		16.1	0.019056	1.57	9.12	68.44	0.81
J1	1610	T10	8.91	15.21	16.02		16.03	0.004551	0.72	15.96	85.15	0.39
J1	1605	T10	8.91	15.16	16.02		16.02	0.00019	0.16	52.33	158.3	0.08
J1	1600	T10	8.91	15.11	16.02		16.02	0.000028	0.07	107.42	204.22	0.03
J1	1595	T10	8.91	15.06	16.02		16.02	0.000008	0.04	162.05	232.58	0.02
J1	1590	T10	8.91	15.01	16.02		16.02	0.000005	0.03	187.75	254.51	0.01
J1	1585	T10	8.91	14.96	16.02		16.02	0.000004	0.03	214.69	258.32	0.01
J1	1580	T10	8.91	14.91	16.02		16.02	0.000003	0.03	232.34	261.44	0.01
J1	1575	T10	8.91	14.85	16.02		16.02	0.000002	0.03	243.53	264.04	0.01
J1	1570	T10	8.91	14.8	16.02		16.02	0.000002	0.03	259.57	253.29	0.01
J1	1565	T10	8.91	14.75	16.02		16.02	0.000002	0.03	272.58	251.84	0.01
J1	1560	T10	8.91	14.7	16.02		16.02	0.000002	0.03	284.3	251.53	0.01
J1	1555	T10	8.91	14.65	16.02		16.02	0.000001	0.03	296.7	253.39	0.01
J1	1550	T10	8.91	14.6	16.02		16.02	0.000001	0.03	308.23	256.24	0.01
J1	1545	T10	8.91	14.55	16.02		16.02	0.000001	0.03	321.29	273.37	0.01
J1	1540	T10	8.91	14.49	16.02		16.02	0.000001	0.03	337.06	286.31	0.01
J1	1535	T10	8.91	14.44	16.02		16.02	0.000001	0.03	355.4	316.02	0.01
J1	1530	T10	8.91	14.39	16.02		16.02	0.000001	0.02	385.92	326.38	0.01
J1	1525	T10	8.91	14.34	16.02		16.02	0.000001	0.02	422.67	334.12	0.01
J1	1520	T10	8.91	14.29	16.02		16.02	0	0.02	454.01	341.29	0.01
J1	1515	T10	8.91	14.24	16.02		16.02	0	0.02	473.01	343.07	0.01
J1	1510	T10	8.91	14.19	16.02		16.02	0	0.02	486.47	346.56	0
J1	1505	T10	8.91	14.13	16.02		16.02	0	0.02	495.47	348.6	0
J1	1500	T10	8.91	14.08	16.02		16.02	0	0.02	506.37	352.54	0
J1	1495	T10	8.91	14.03	16.02		16.02	0	0.02	507.91	341.62	0
J1	1490	T10	8.91	13.99	16.02		16.02	0	0.02	476.67	322.34	0.01
J1	1485	T10	8.91	13.96	16.02		16.02	0	0.02	451.68	308.72	0.01
J1	1480	T10	8.91	13.93	16.02		16.02	0.000001	0.03	419.43	290.8	0.01
J1	1475	T10	8.91	13.91	16.02		16.02	0.000001	0.03	394.11	275.92	0.01
J1	1470	T10	8.91	13.88	16.02		16.02	0.000001	0.03	368.37	255.41	0.01
J1	1465	T10	8.91	13.85	16.02		16.02	0.000001	0.03	370.53	251.42	0.01
J1	1460	T10	8.91	13.82	16.02		16.02	0.000001	0.03	336.75	223.49	0.01
J1	1455	T10	8.91	13.79	16.02		16.02	0.000001	0.03	335.08	217.47	0.01
J1	1450	T10	8.91	13.77	16.02		16.02	0.000001	0.03	337.81	214.97	0.01
J1	1445	T10	8.91	13.74	16.02		16.02	0.000001	0.03	337.22	210.34	0.01
J1	1440	T10	8.91	13.71	16.02		16.02	0.000001	0.03	348.31	214.09	0.01
J1	1435	T10	8.91	13.68	16.02		16.02	0.000001	0.03	332.23	199.9	0.01
J1	1430	T10	8.91	13.65	16.02		16.02	0.000001	0.03	316.61	182.63	0.01
J1	1425	T10	8.91	13.46	16.02		16.02	0.000001	0.03	336.15	177.89	0.01
J1	1417.327	T10	11.67	13.5	16.02	14.67	16.02	0.000001	0.04	371.53	199.51	0.01
J1	1408.502		Culvert									
J1	1208.773	T10	11.67	12.41	14.82	14.82	16.02	0.014833	4.86	2.4	55.4	1
J1	1205	T10	11.67	12.39	13.07	13.56	15.71	0.497761	7.2	1.62	4.77	3.94
J1	1200	T10	11.67	12.37	13.86	13.54	13.97	0.006301	1.46	7.98	9.64	0.51
J1	1195	T10	11.67	12.34	13.86		13.93	0.004124	1.15	10.18	13.73	0.42
J1	1190	T10	11.67	12.31	13.55	13.55	13.86	0.025401	2.49	4.69	7.59	1.01
J1	1183.157	T10	11.67	12.27	13.58	13.09	13.74	0.004519	1.78	6.54	6.69	0.5
J1	1177.284		Culvert									
J1	1155.524	T10	13.58	12.12	13.03	13.03	13.48	0.020463	2.98	4.55	195.53	1