



PUC 2017 **COMUNE DI CARLOFORTE**

Piano Urbanistico Comunale

Legge Regionale n. 45/1989 e s.m.i



ORDINE INGEGNERI
PROVINCIA DI CAGLIARI
Doct. Ing. MARCELLO ANGIUS

**Doc. 16 – Risultati della modellazione idraulica.
Canale 6 – de La Caletta**

aprile 2019
integrazioni a
seguito nota
ADIS prot.5226
del 19-06-2018

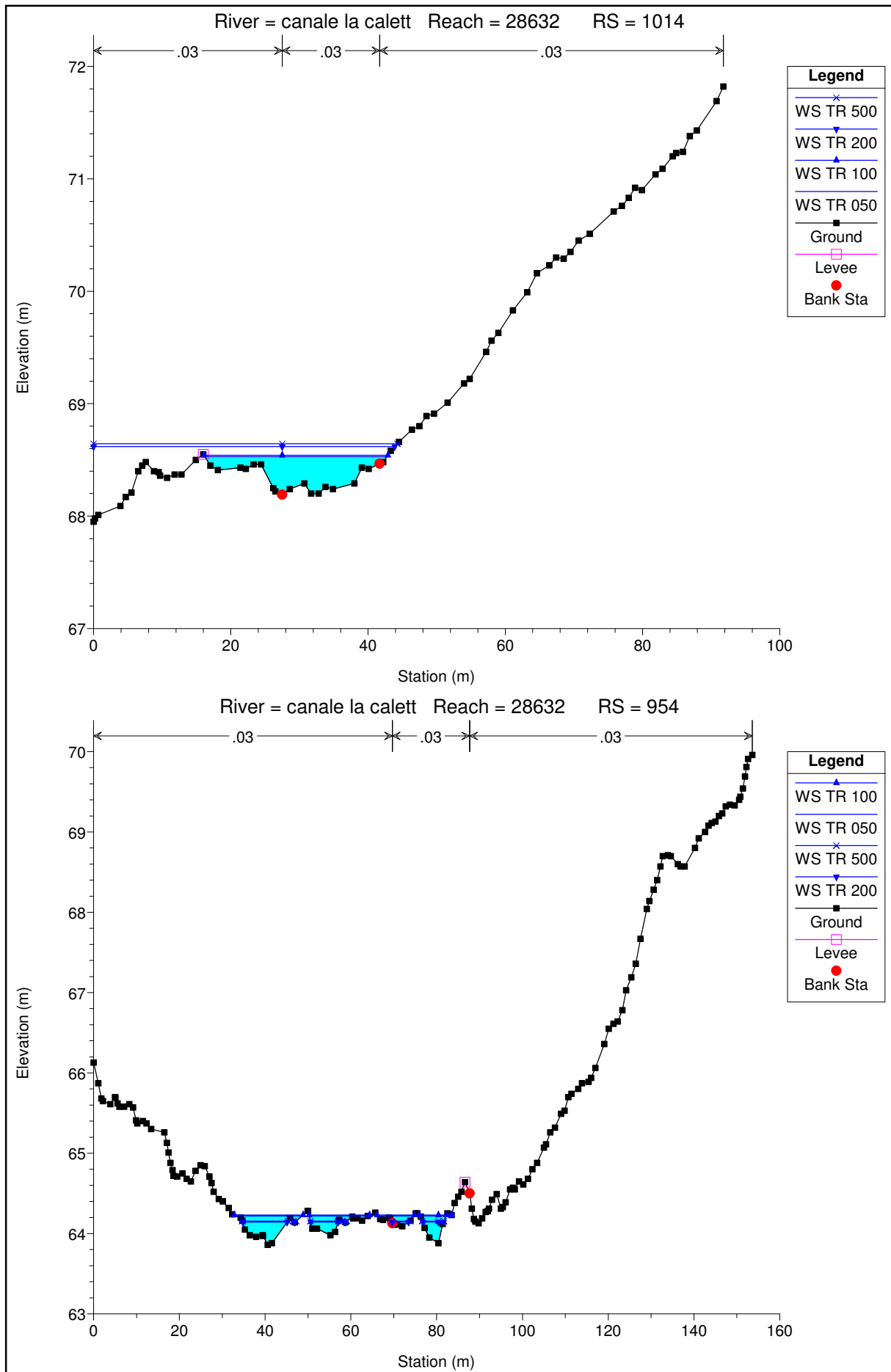
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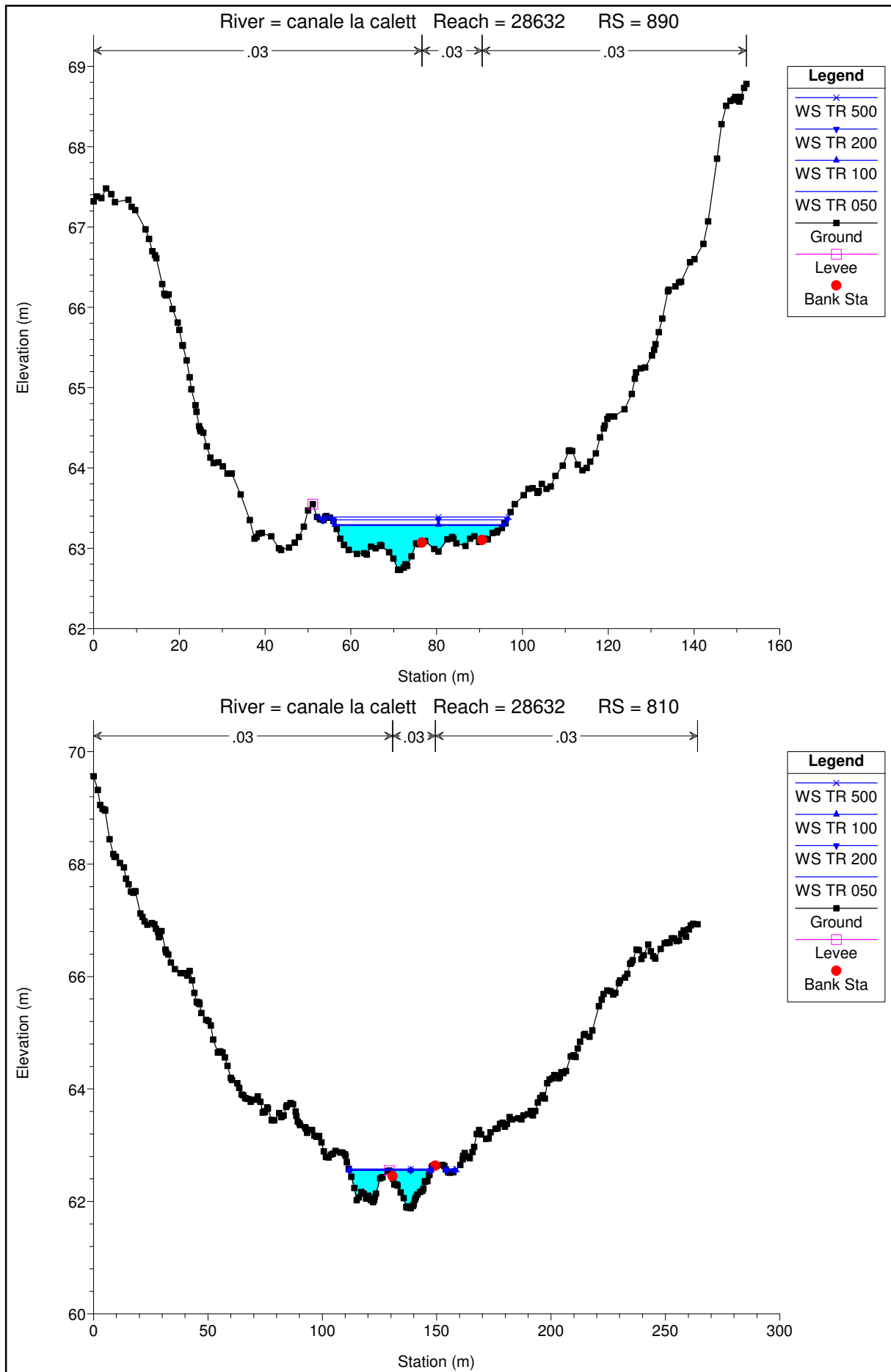
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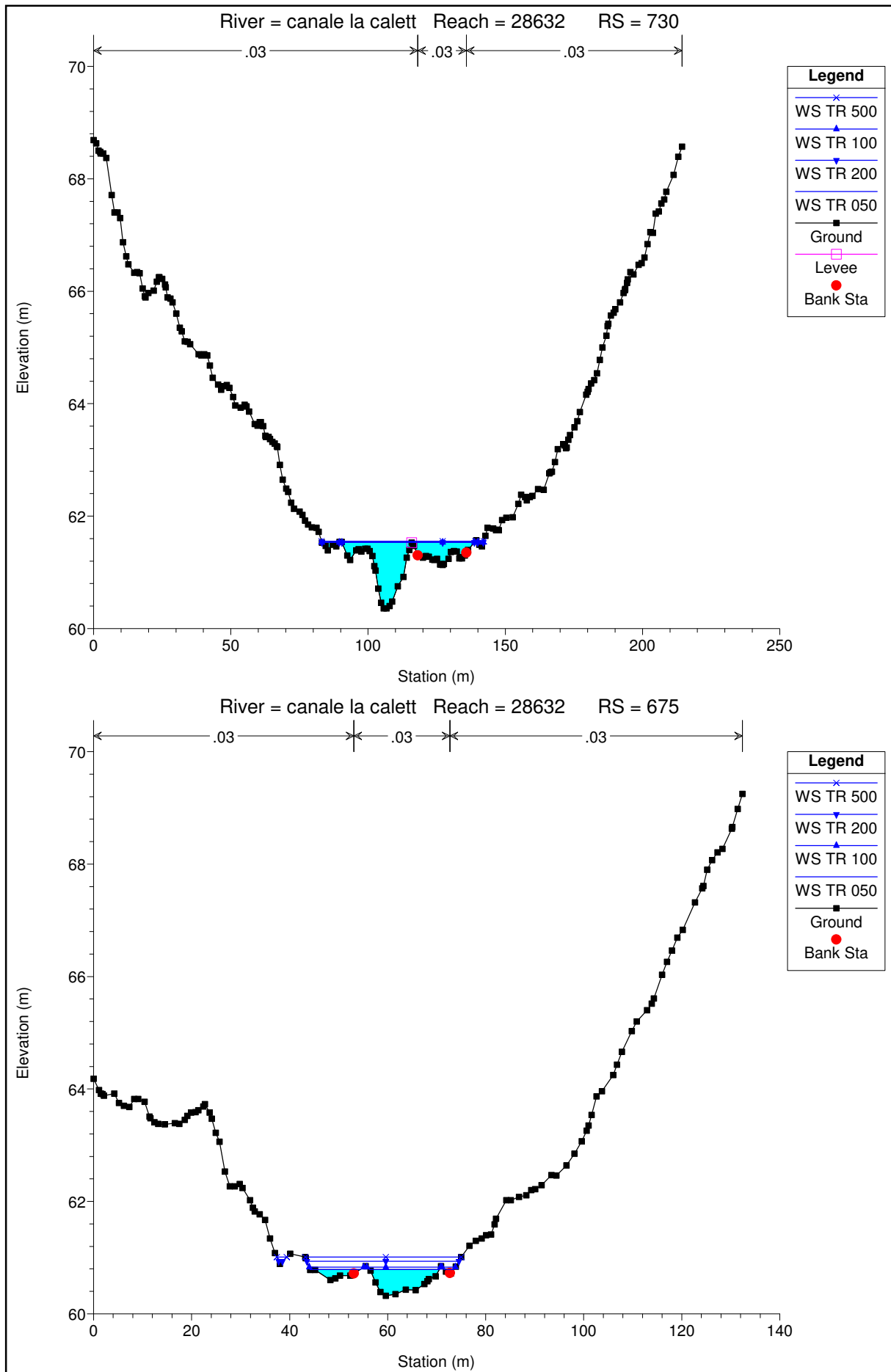
Risultati della modellazione idraulica

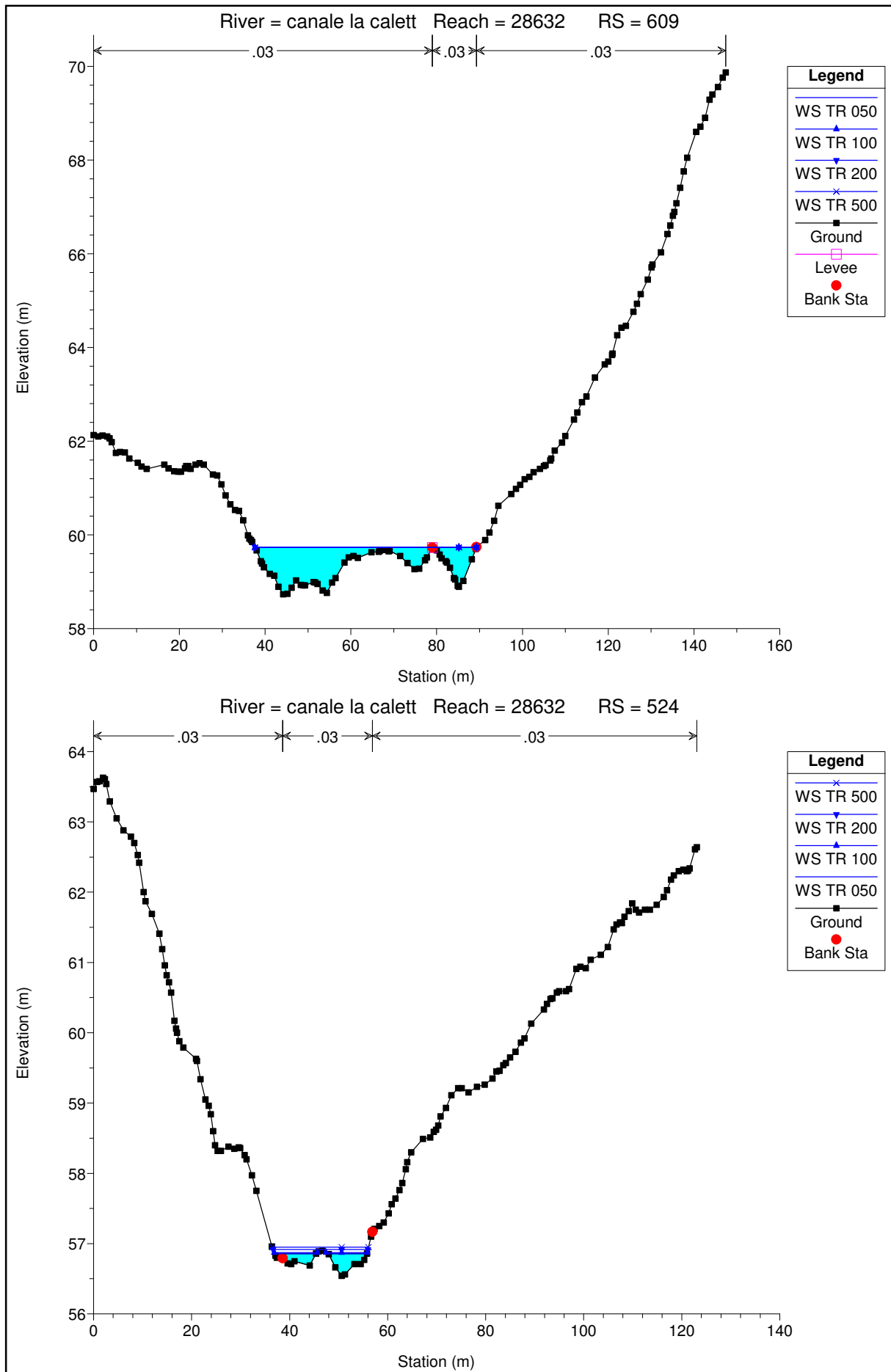
CANALE DE LA CALETTA

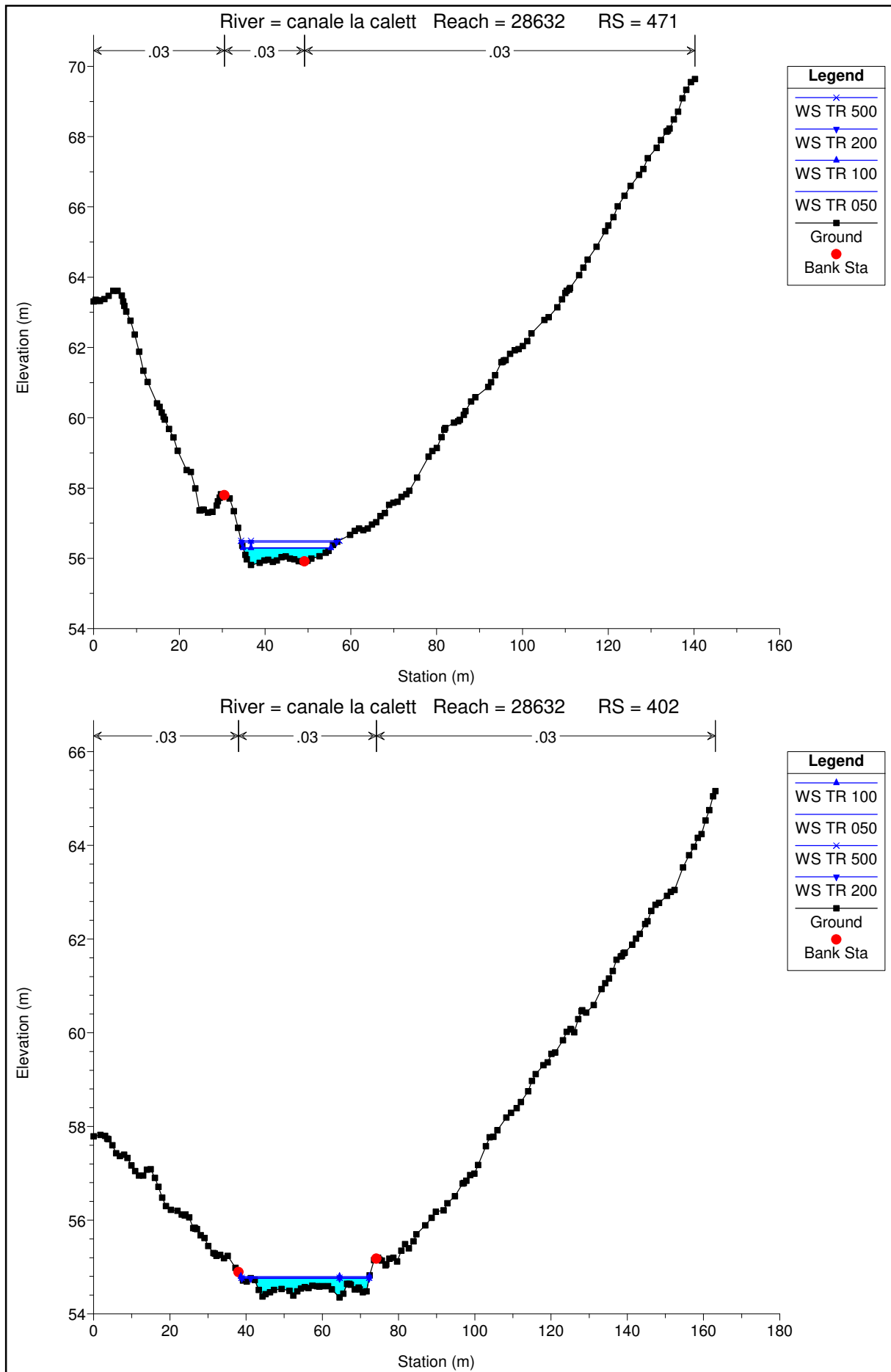
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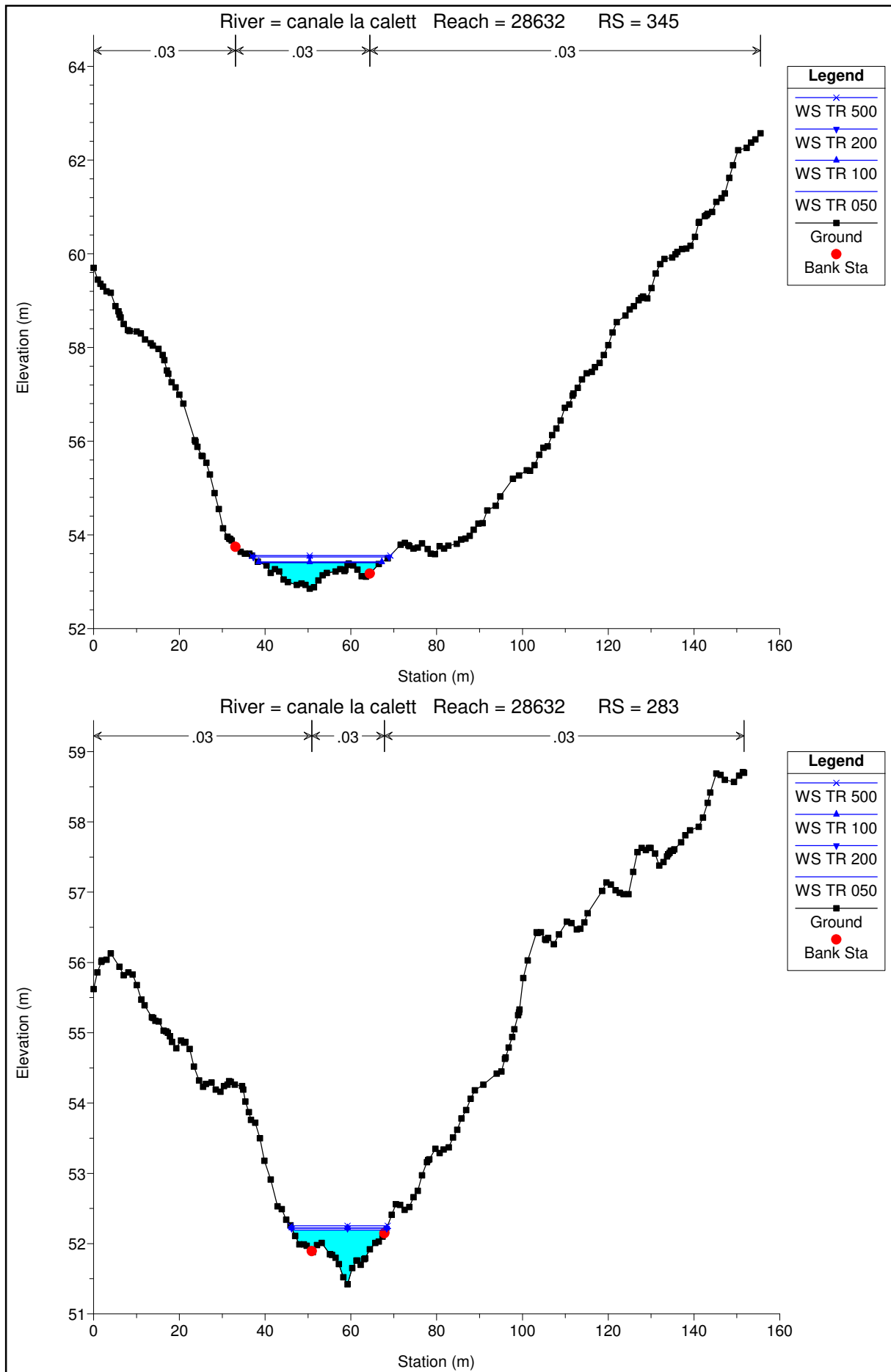


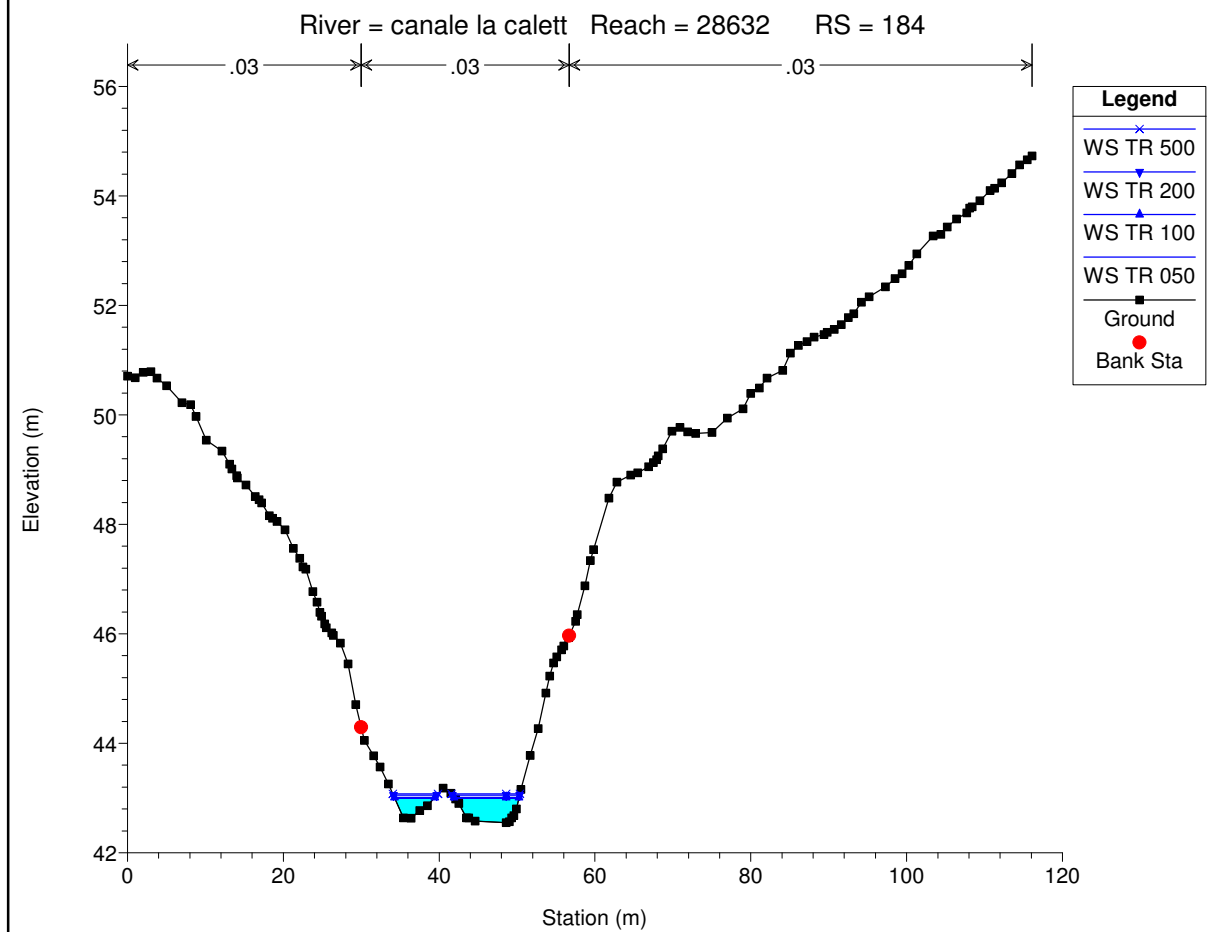
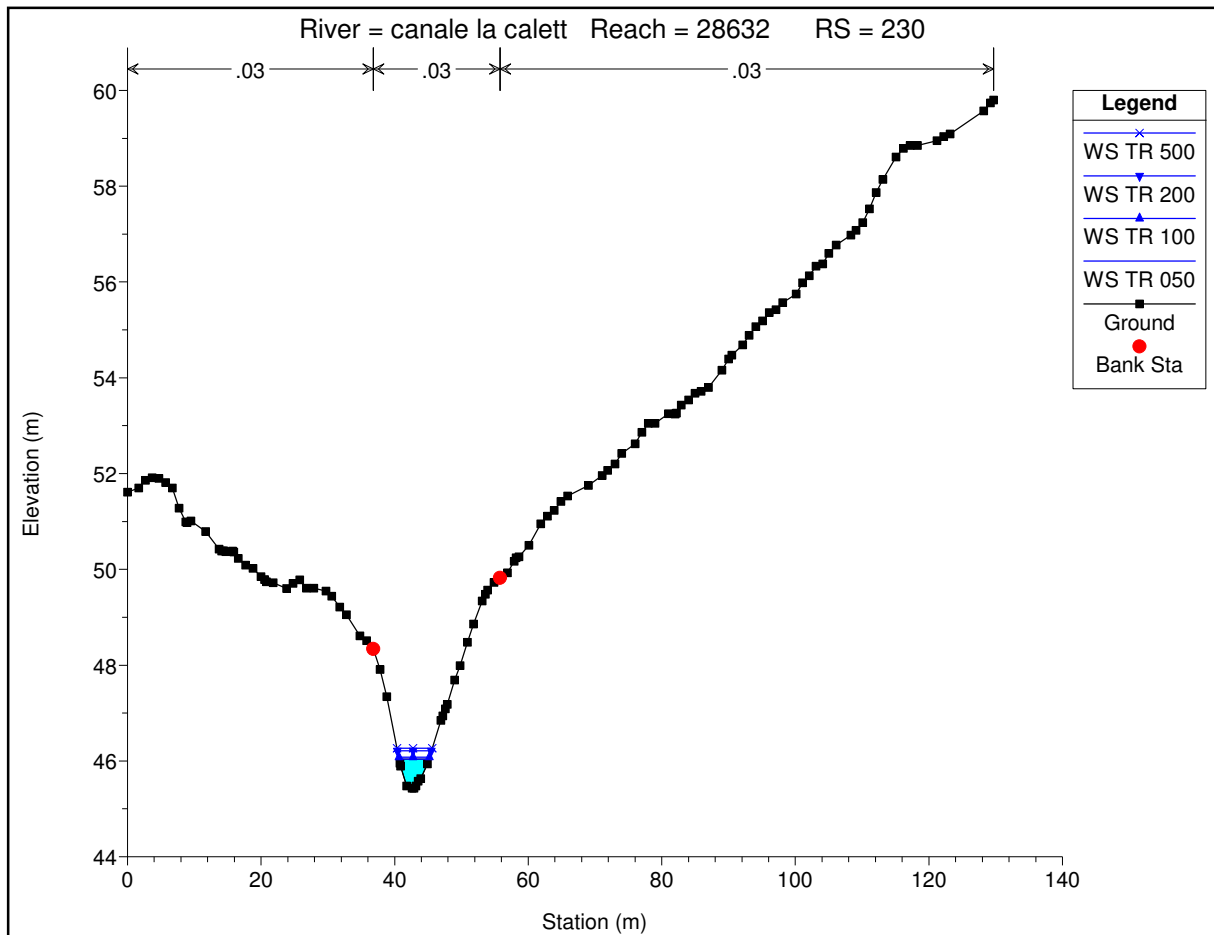


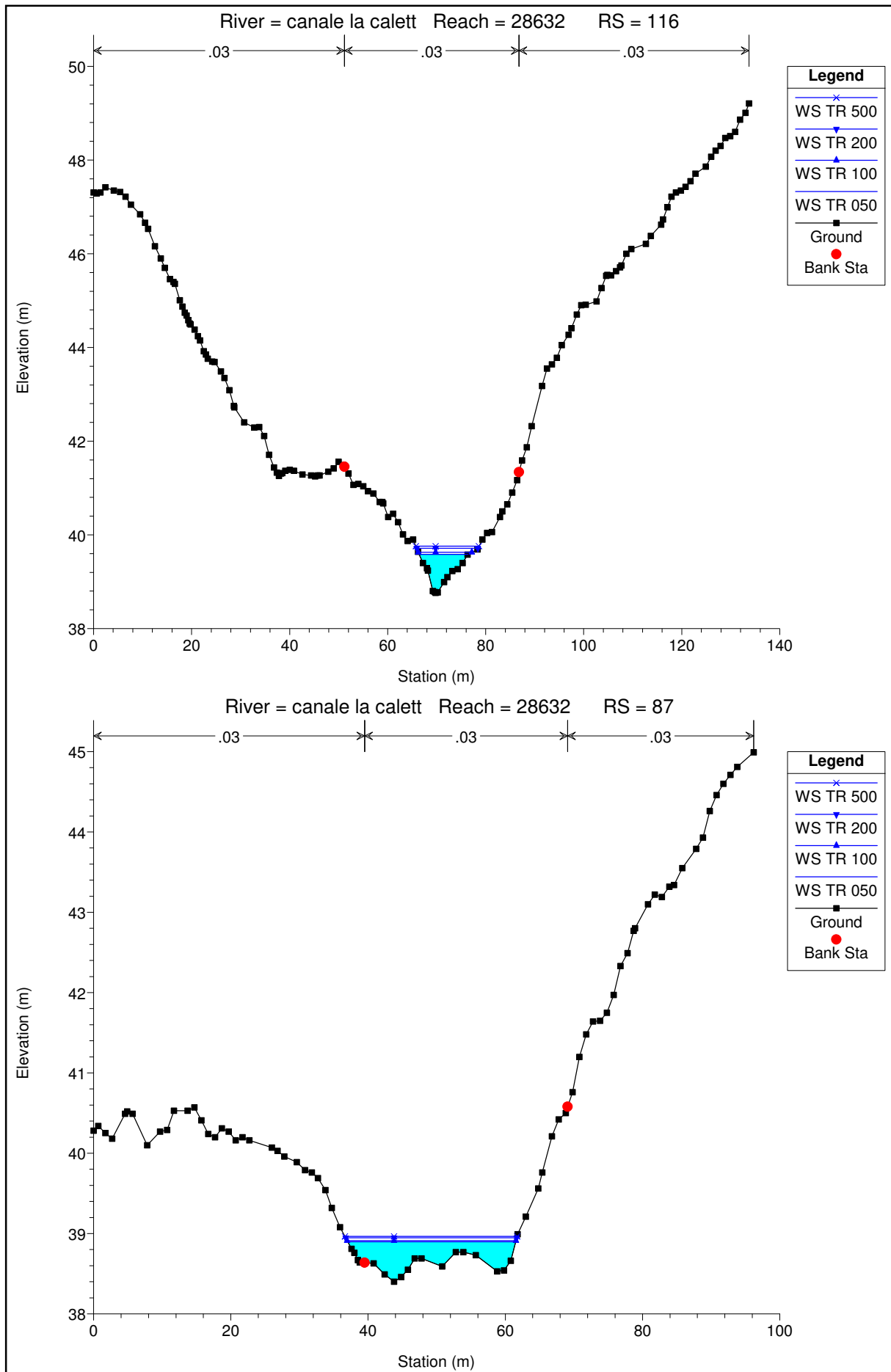


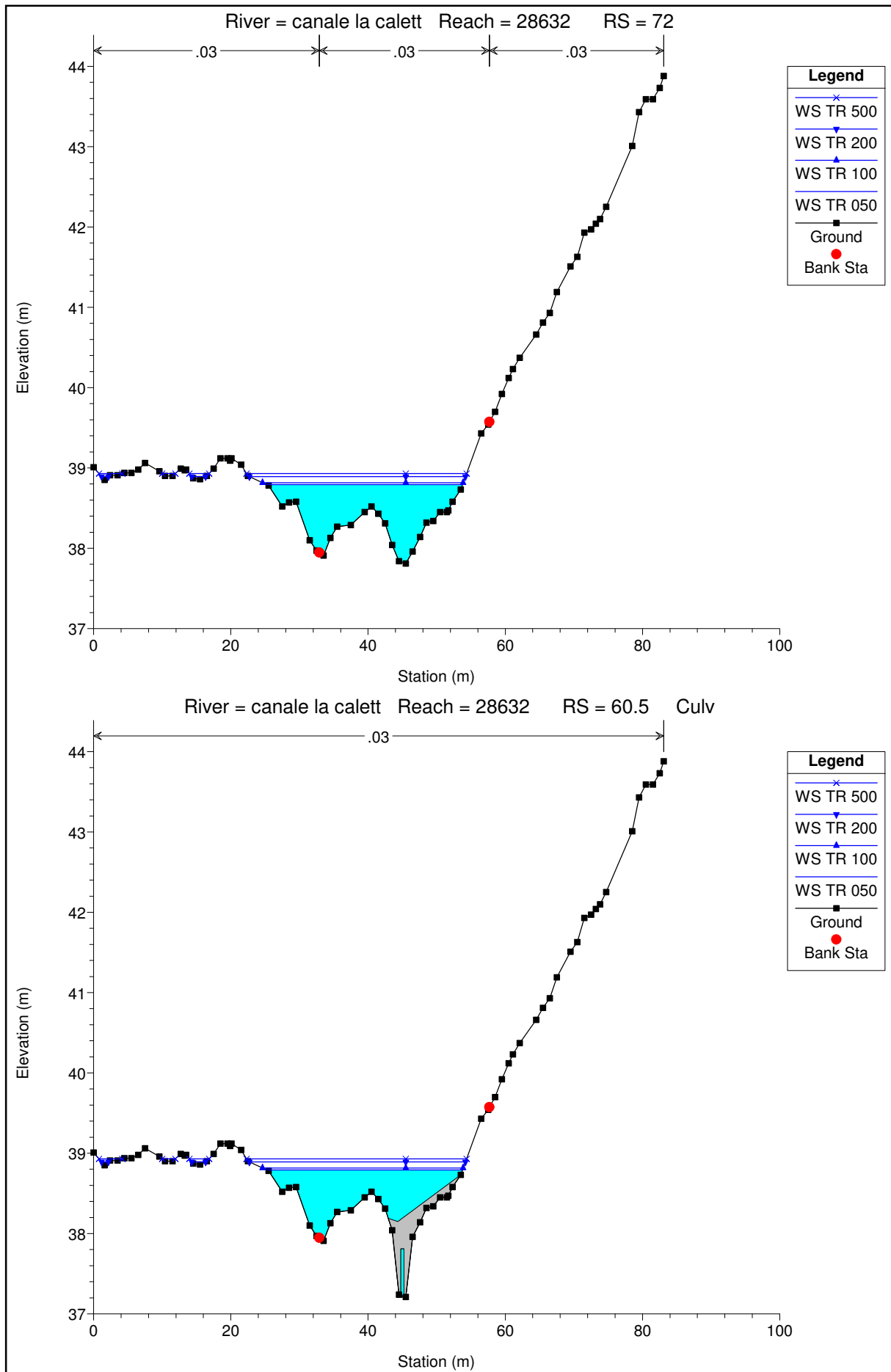


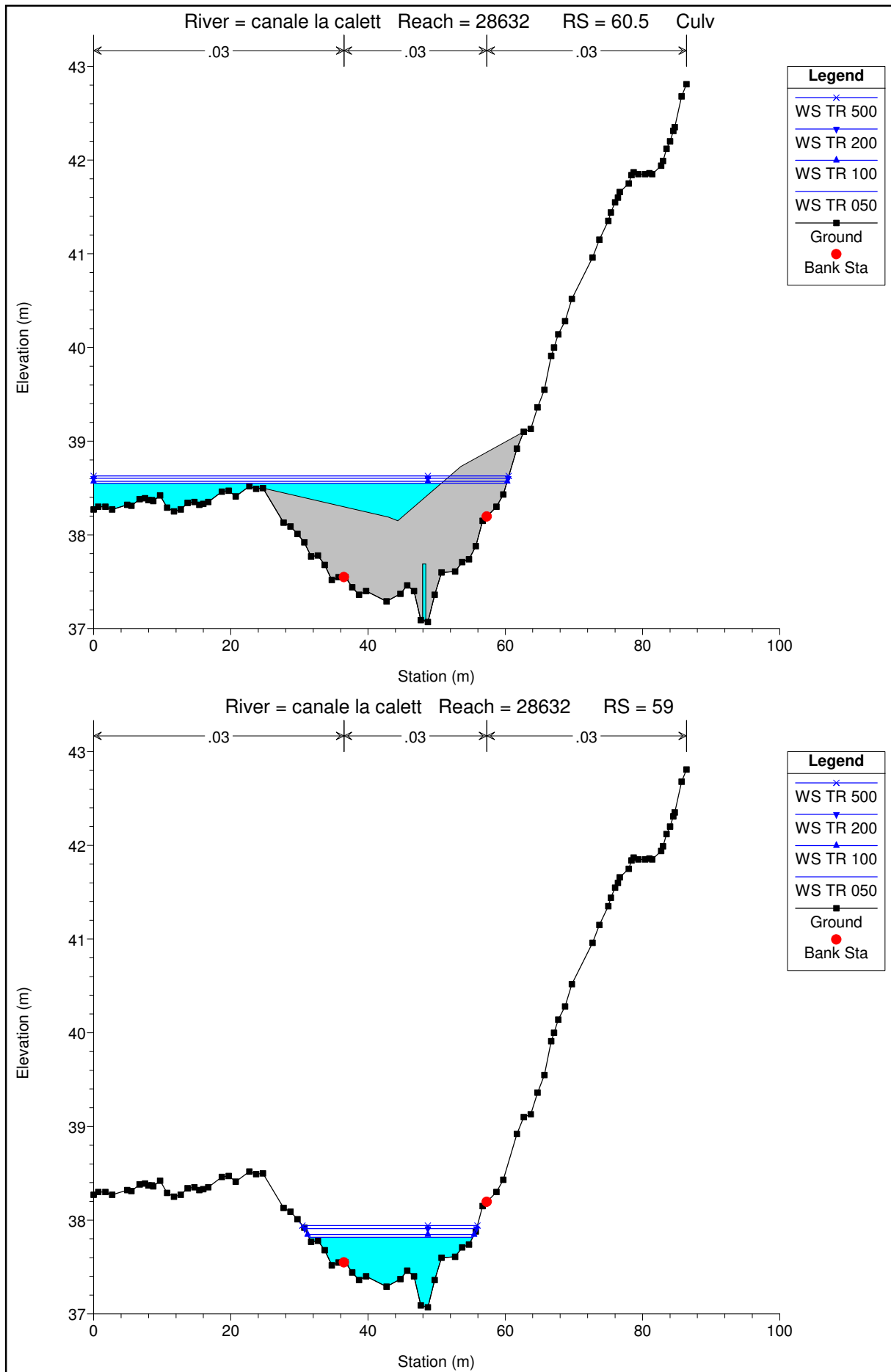


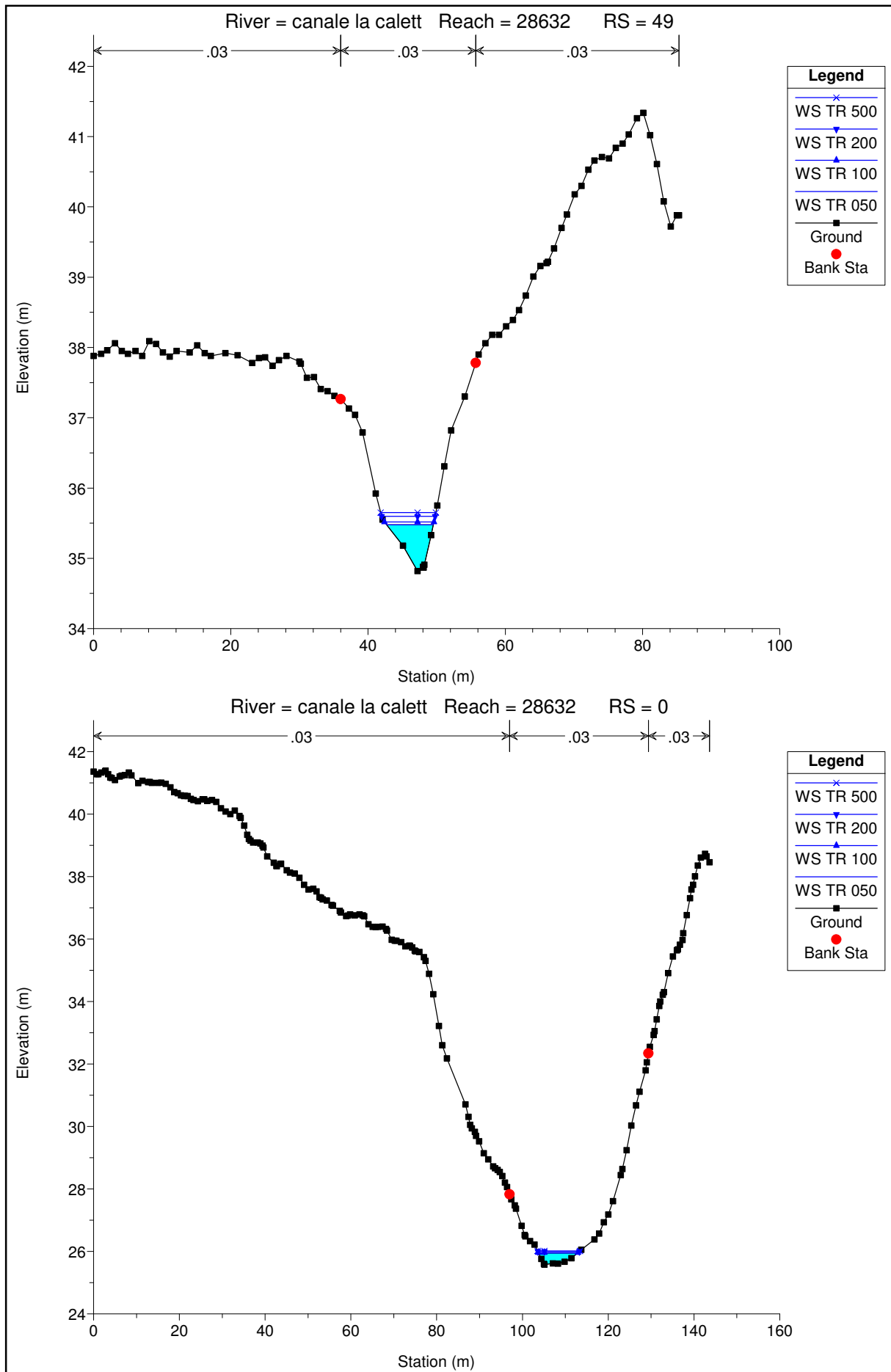


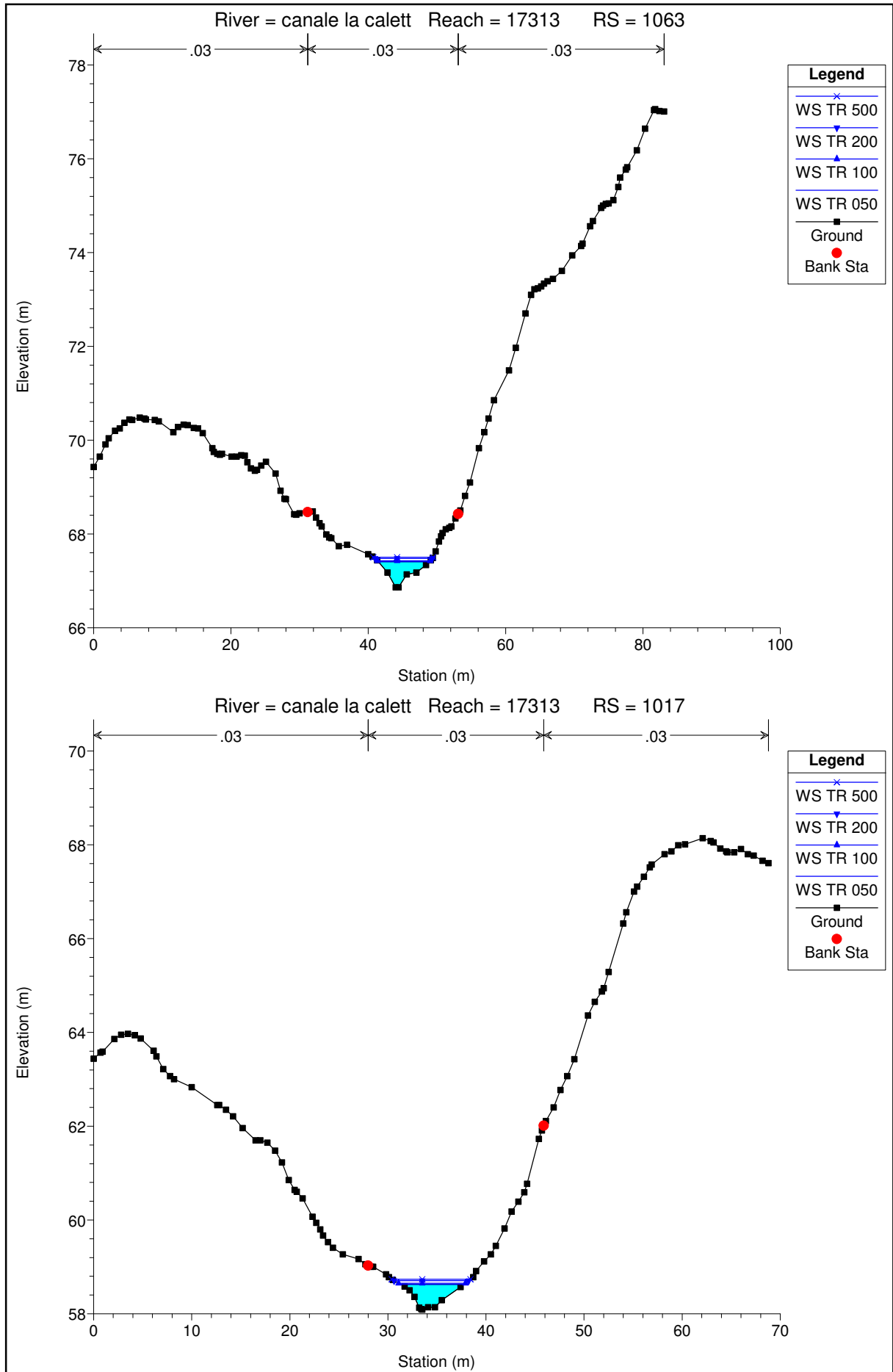


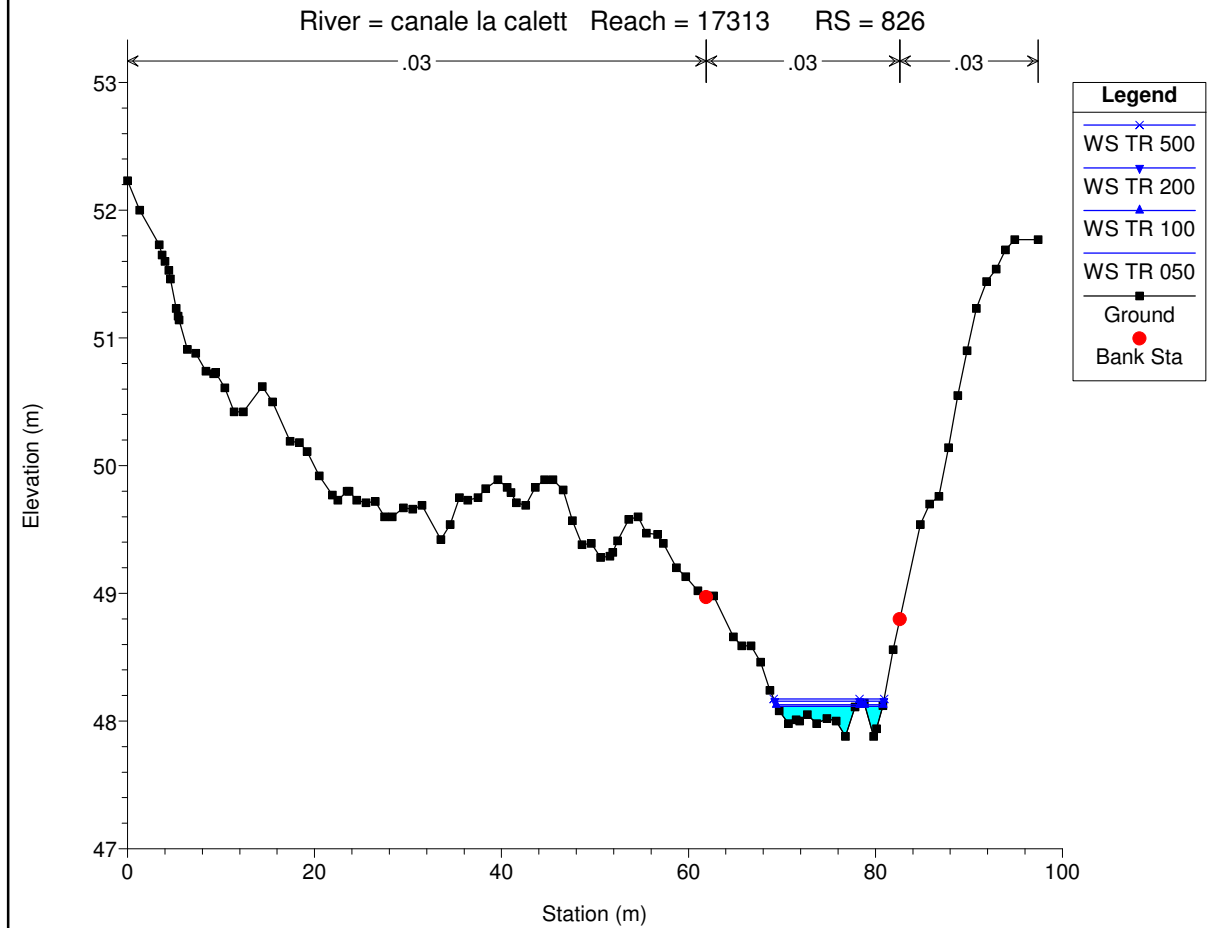
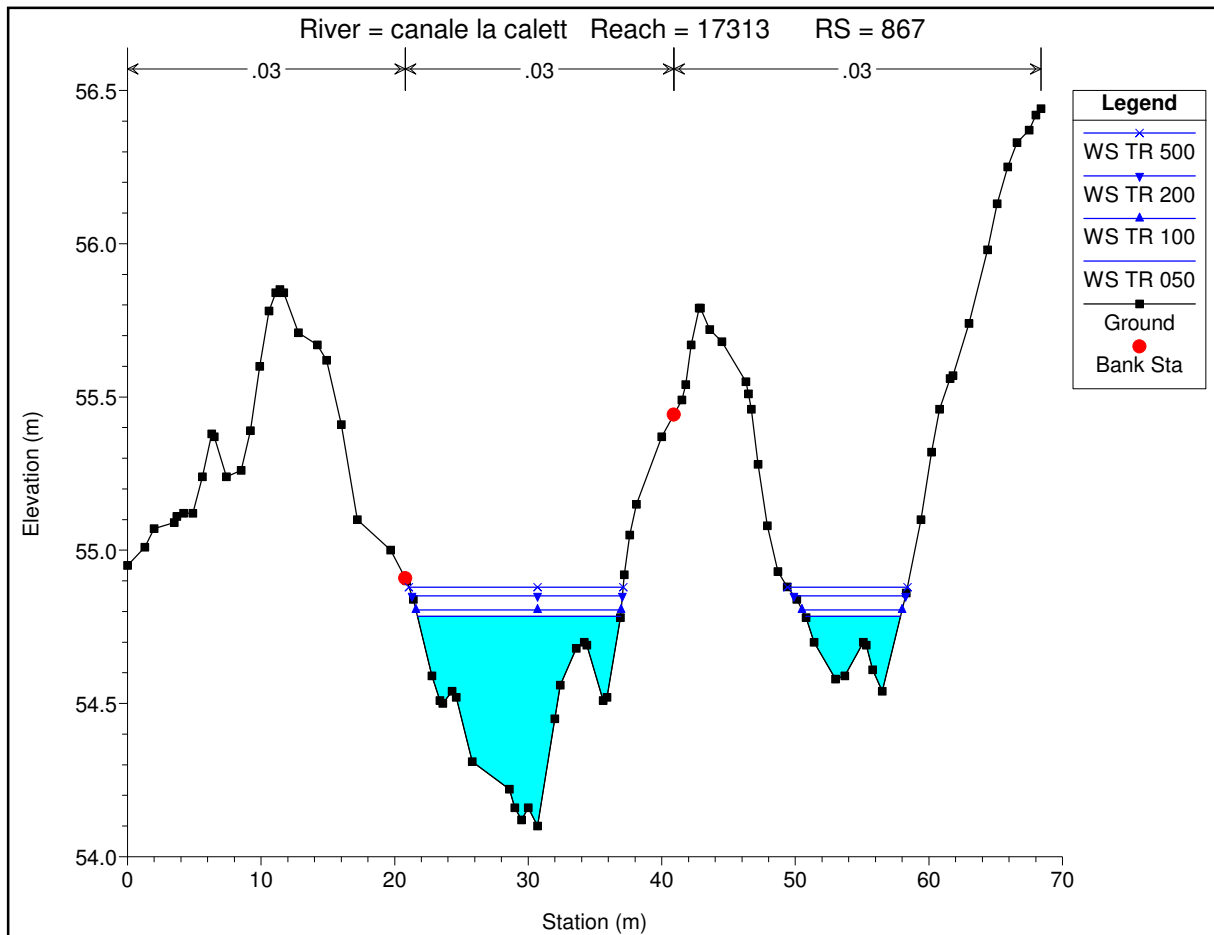


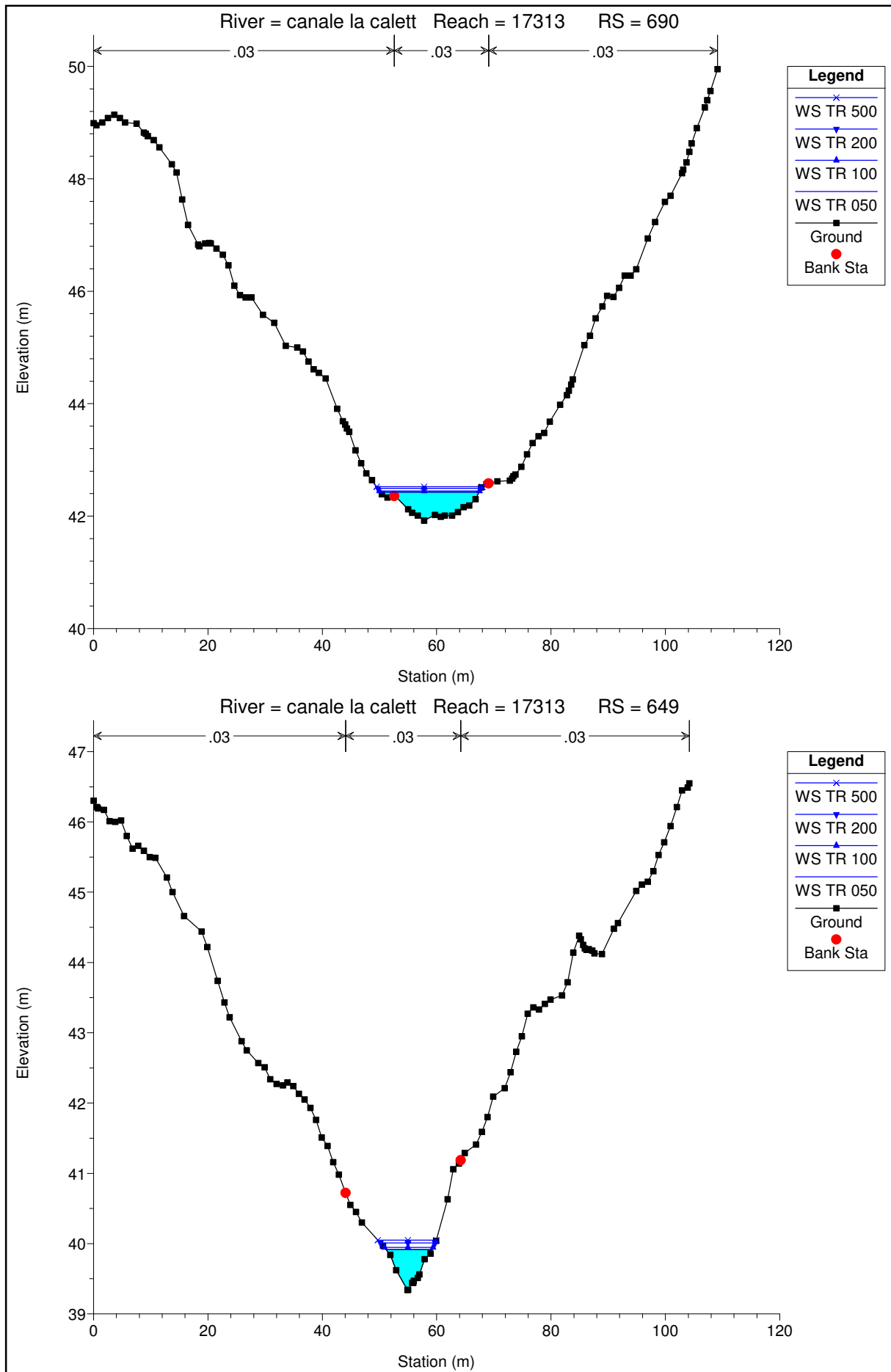


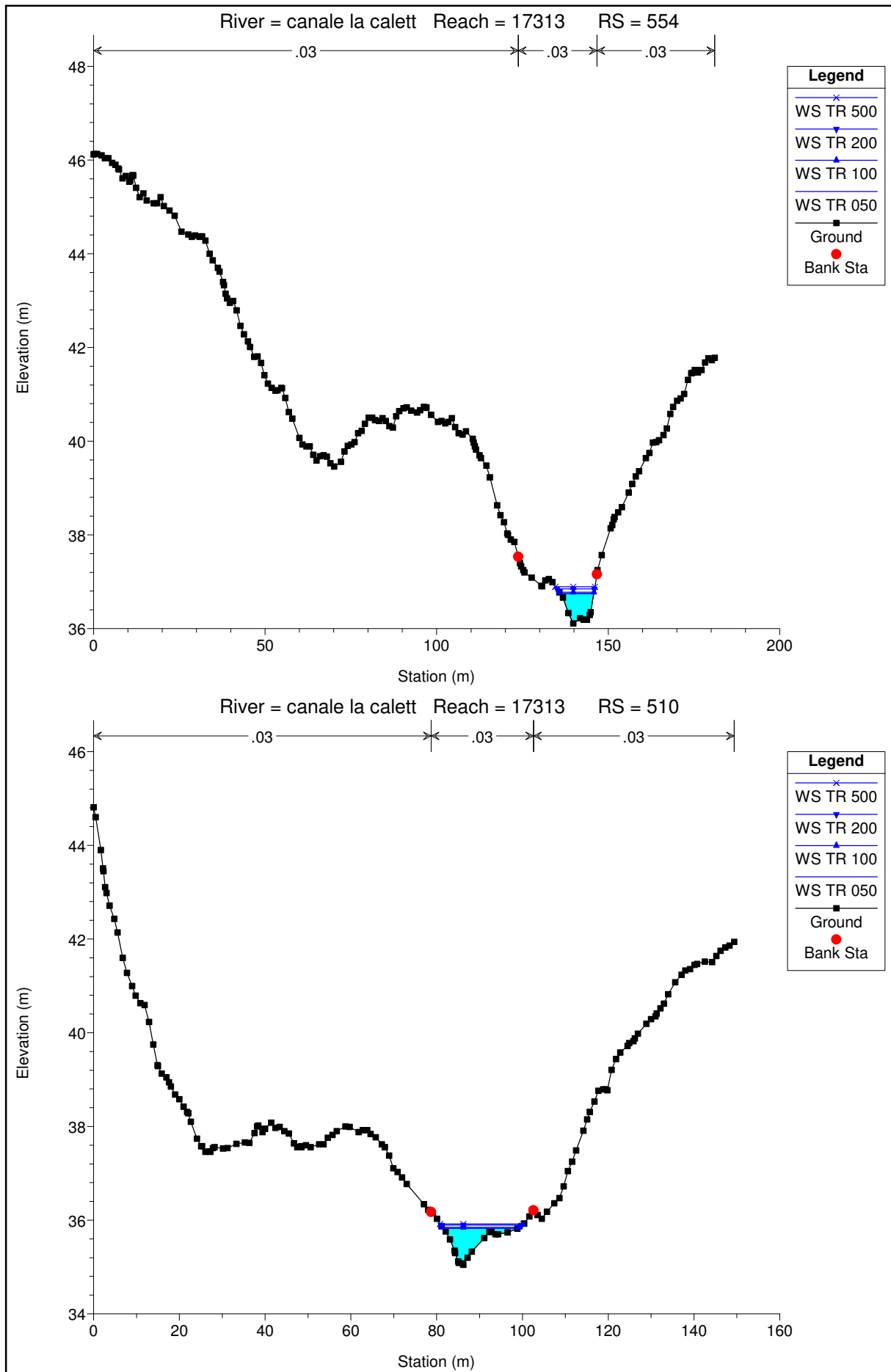


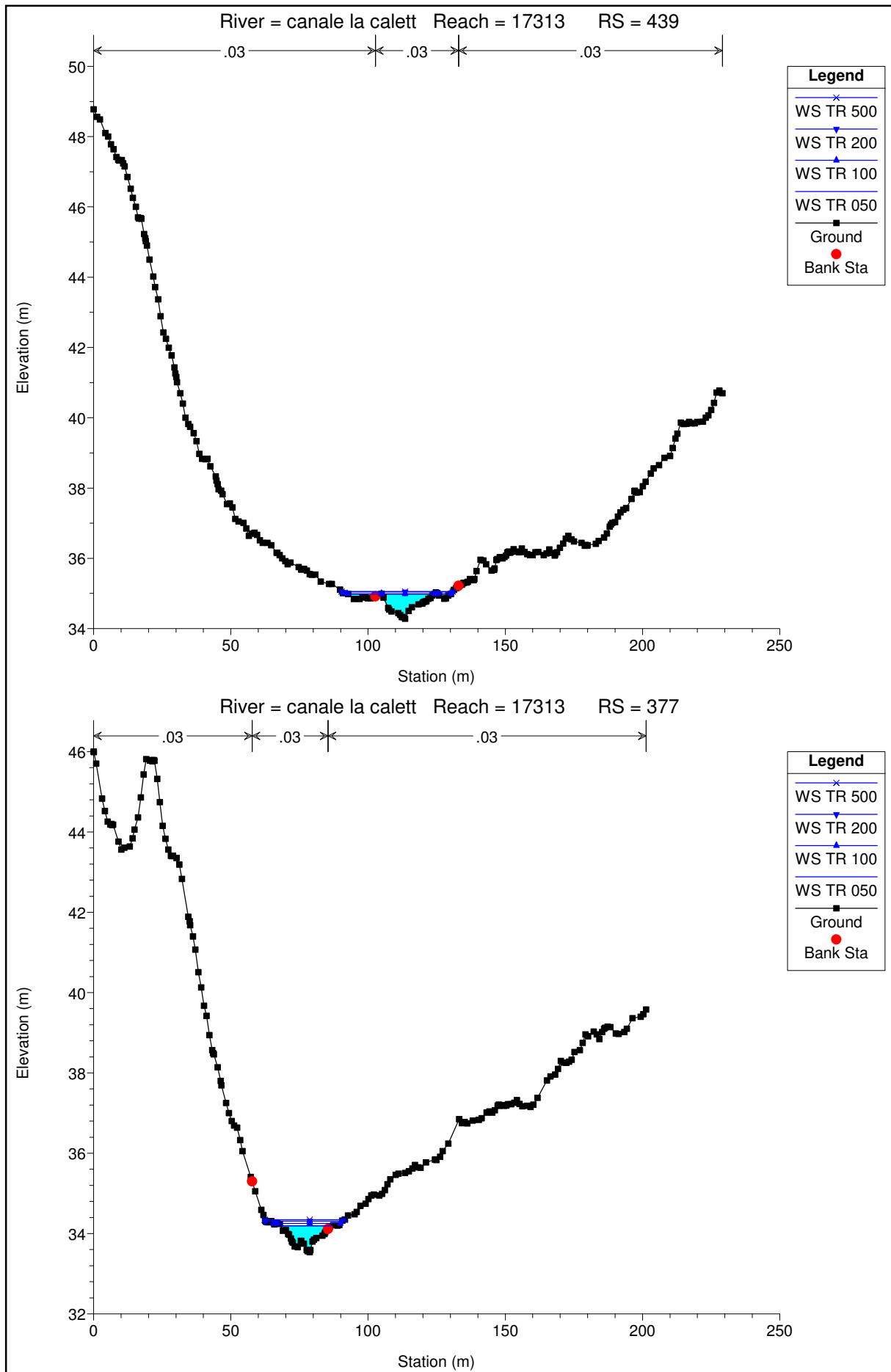


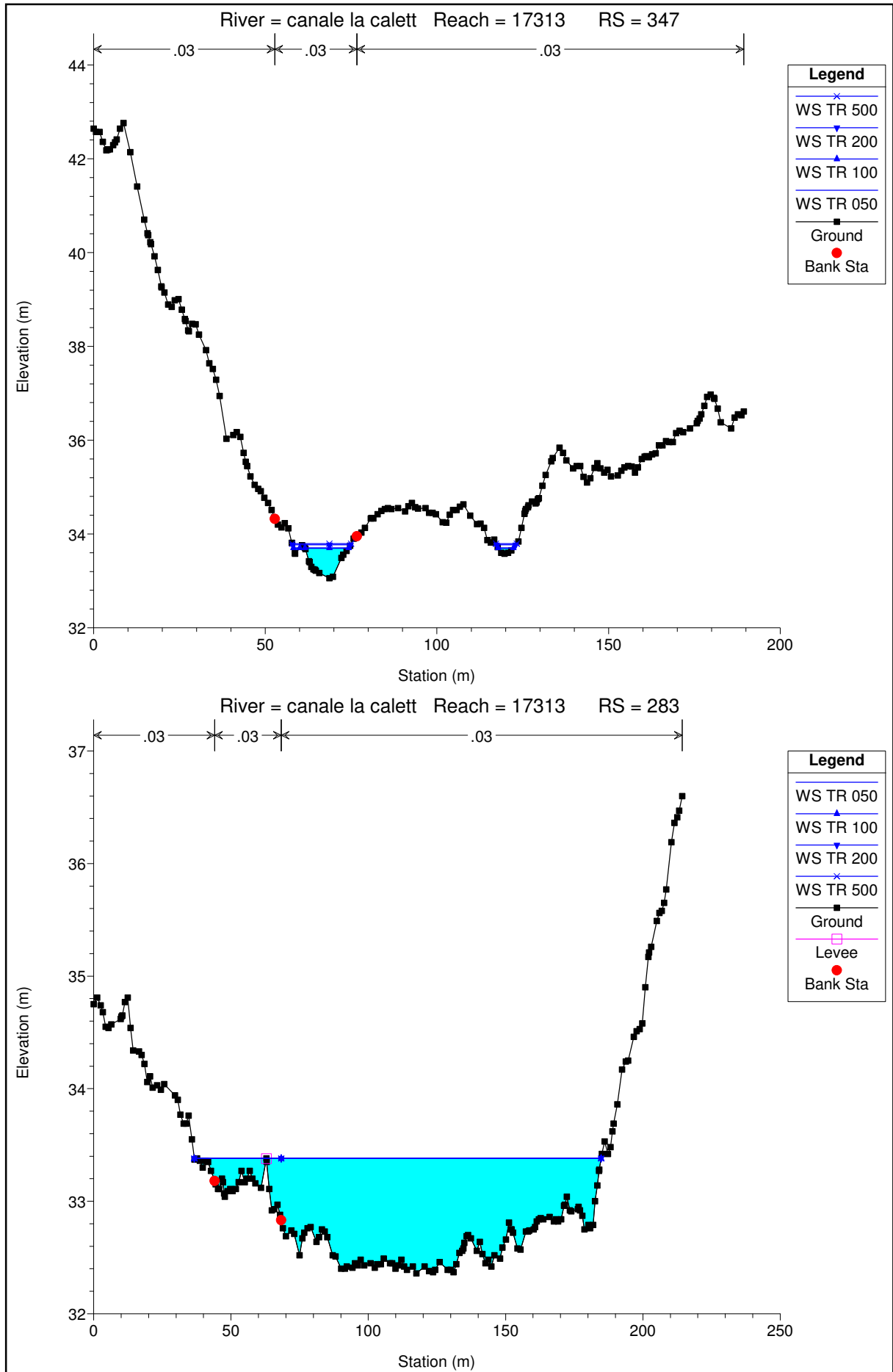


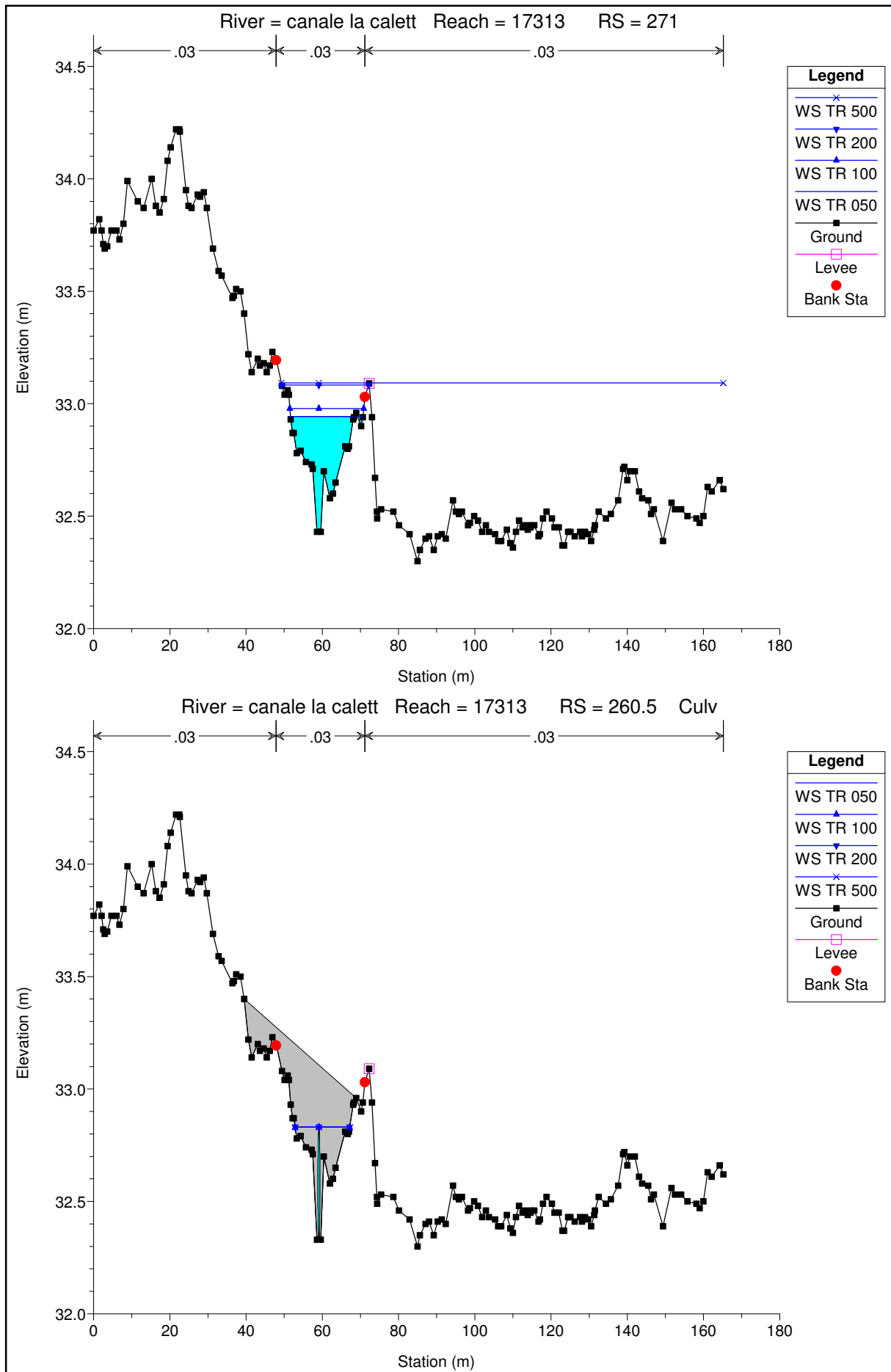


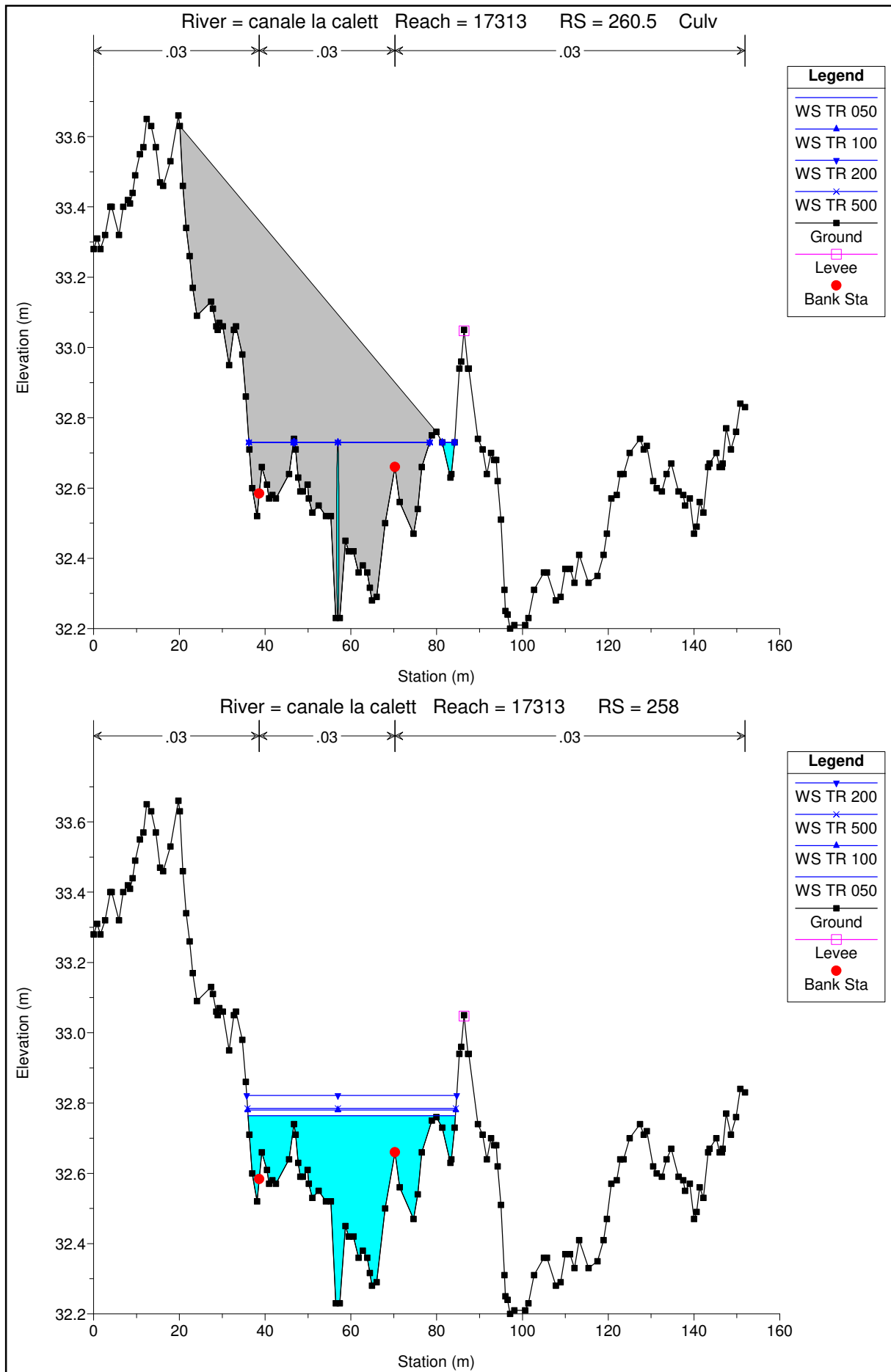


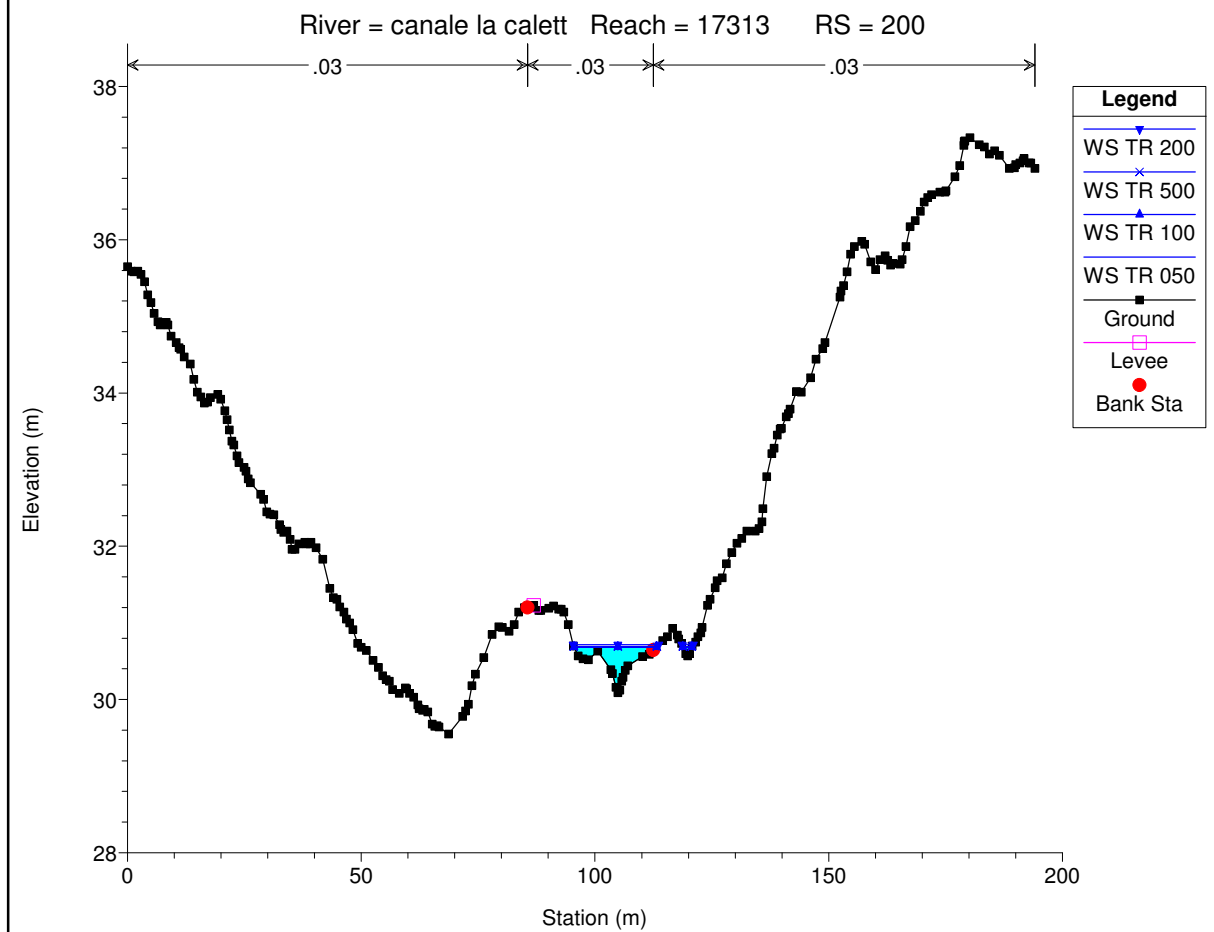
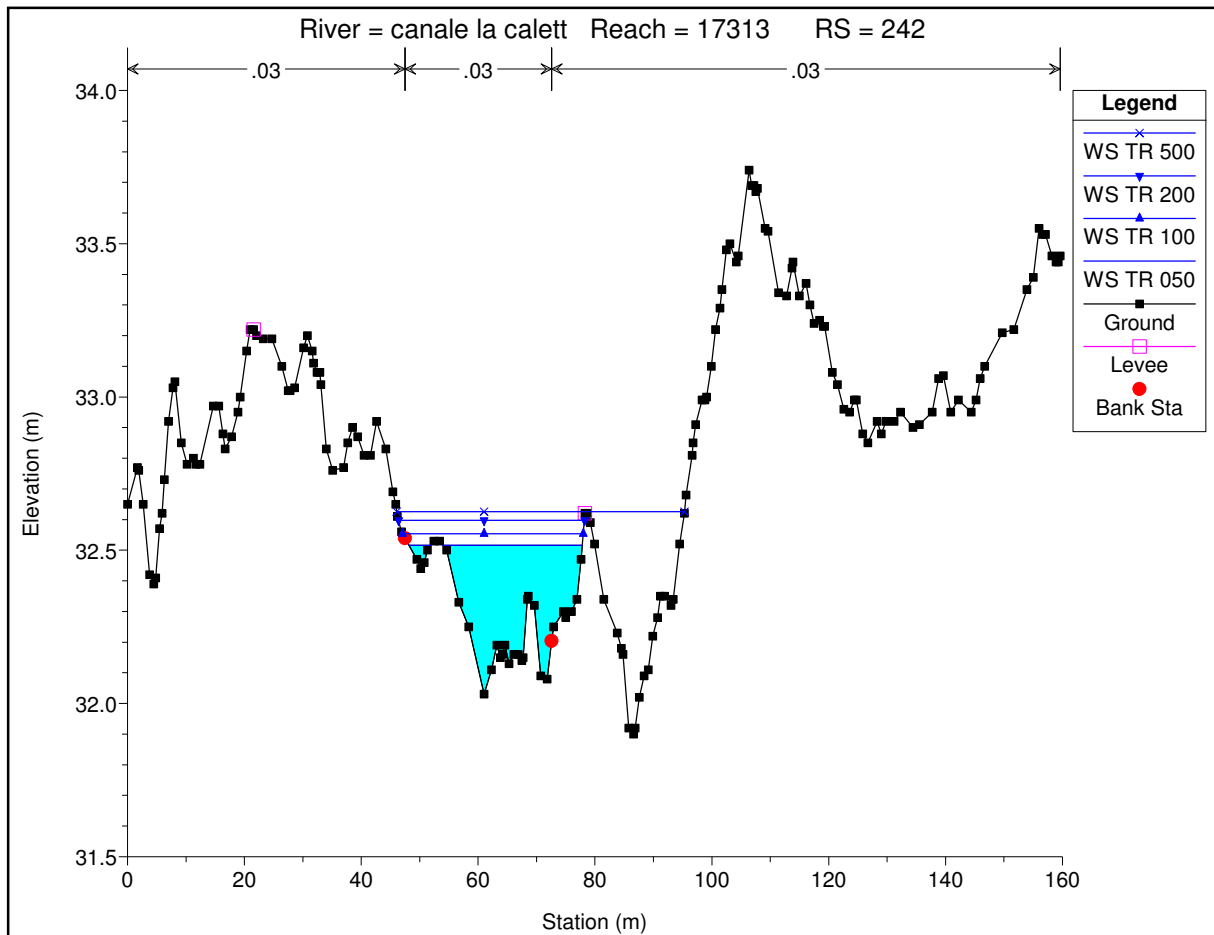


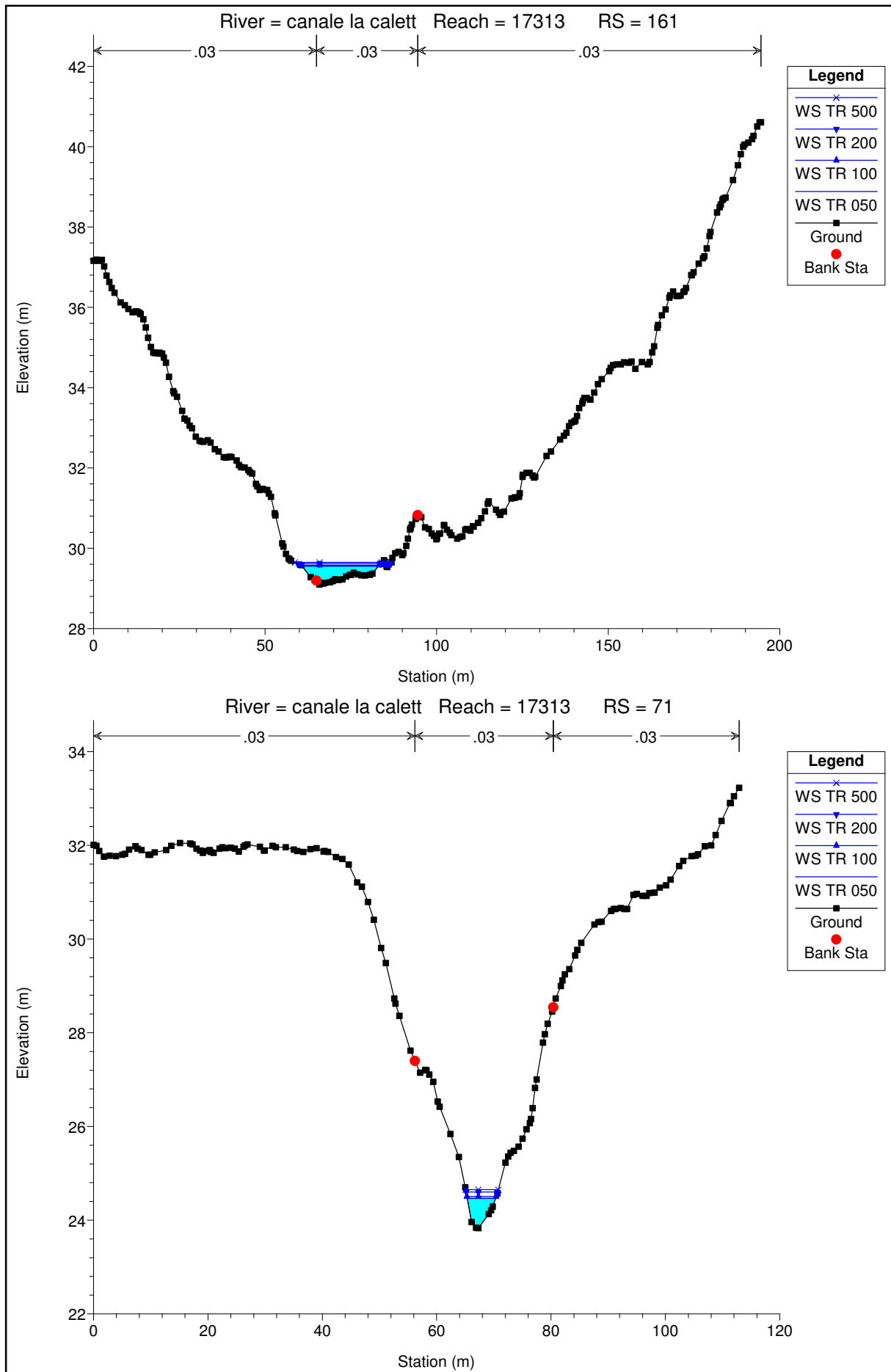


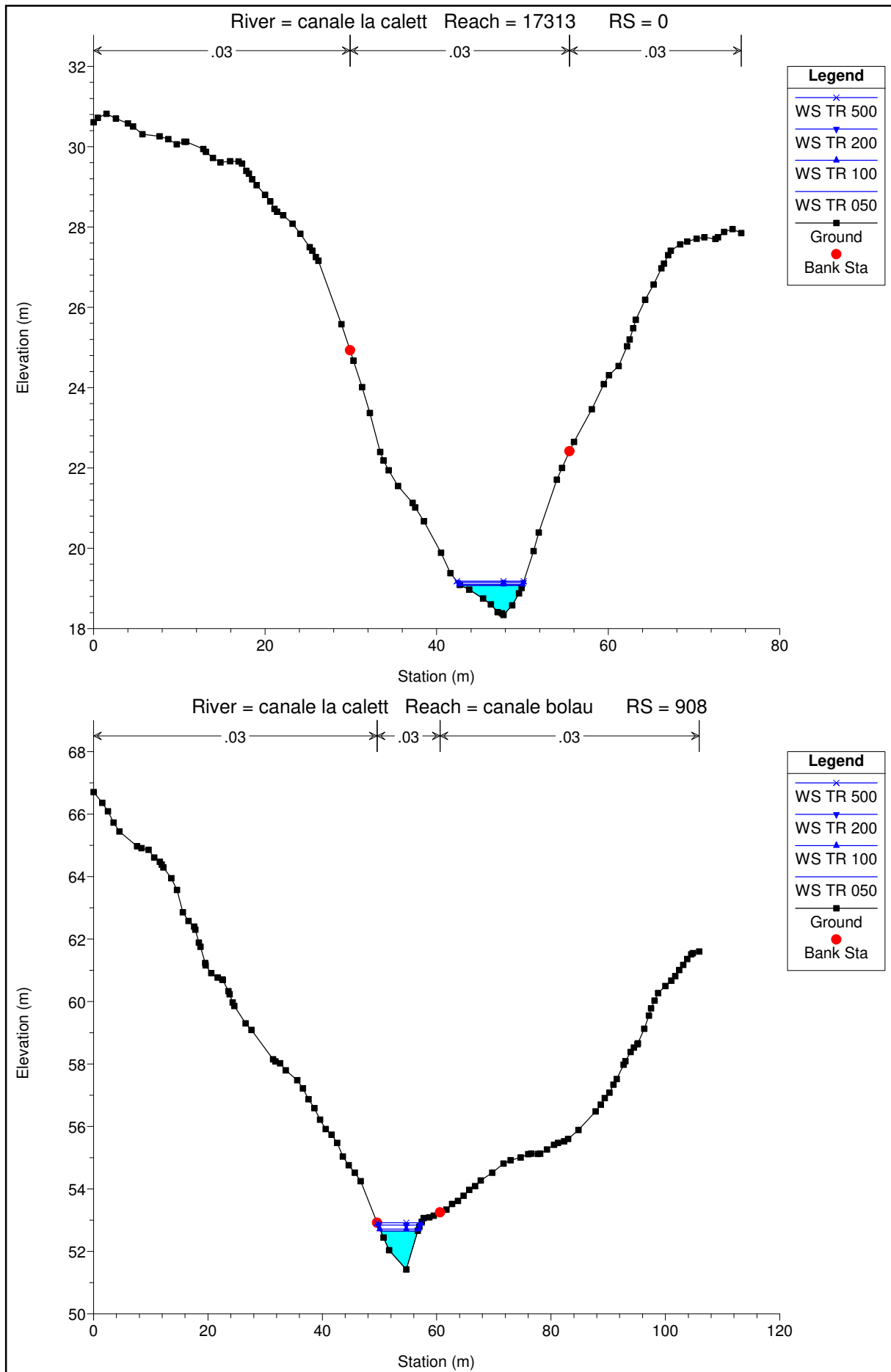


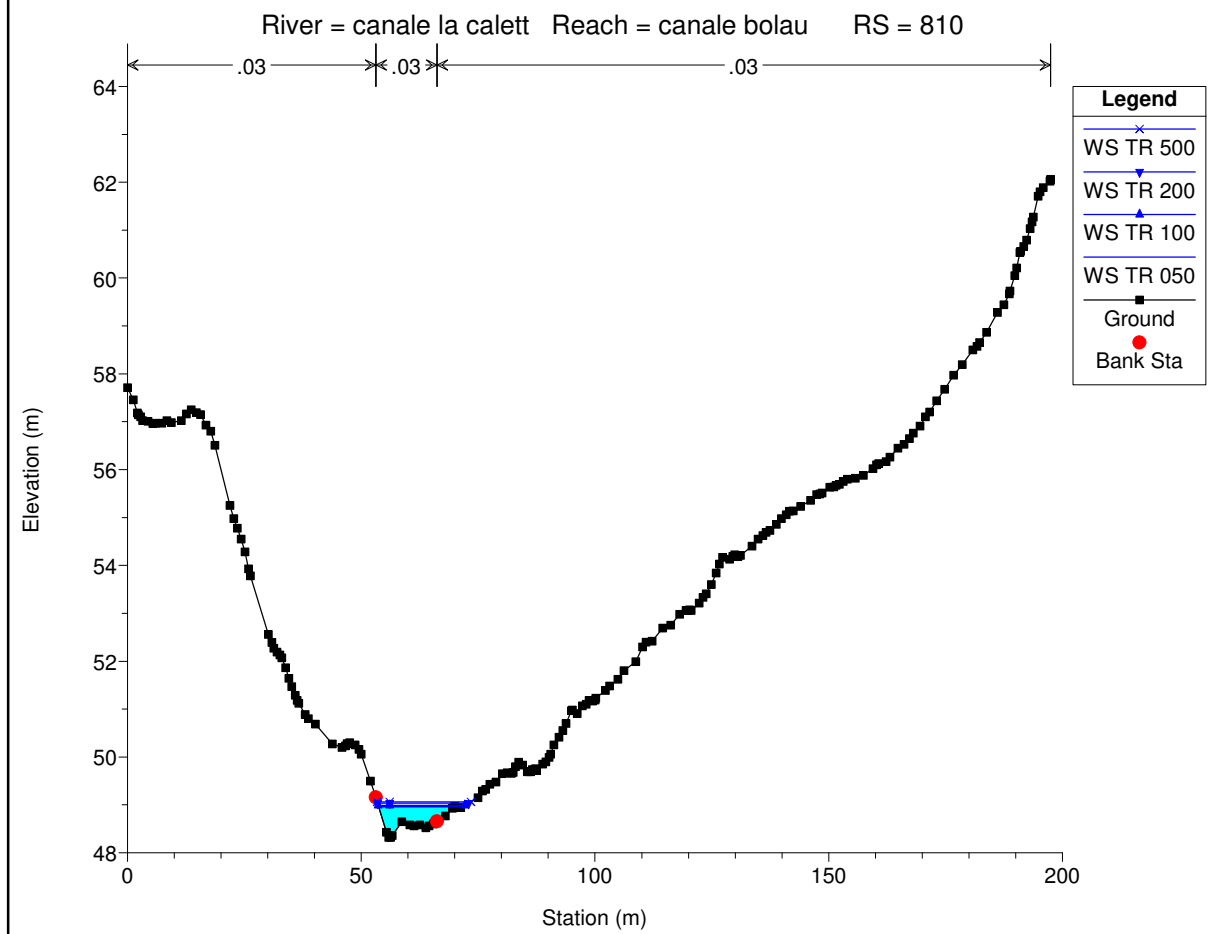
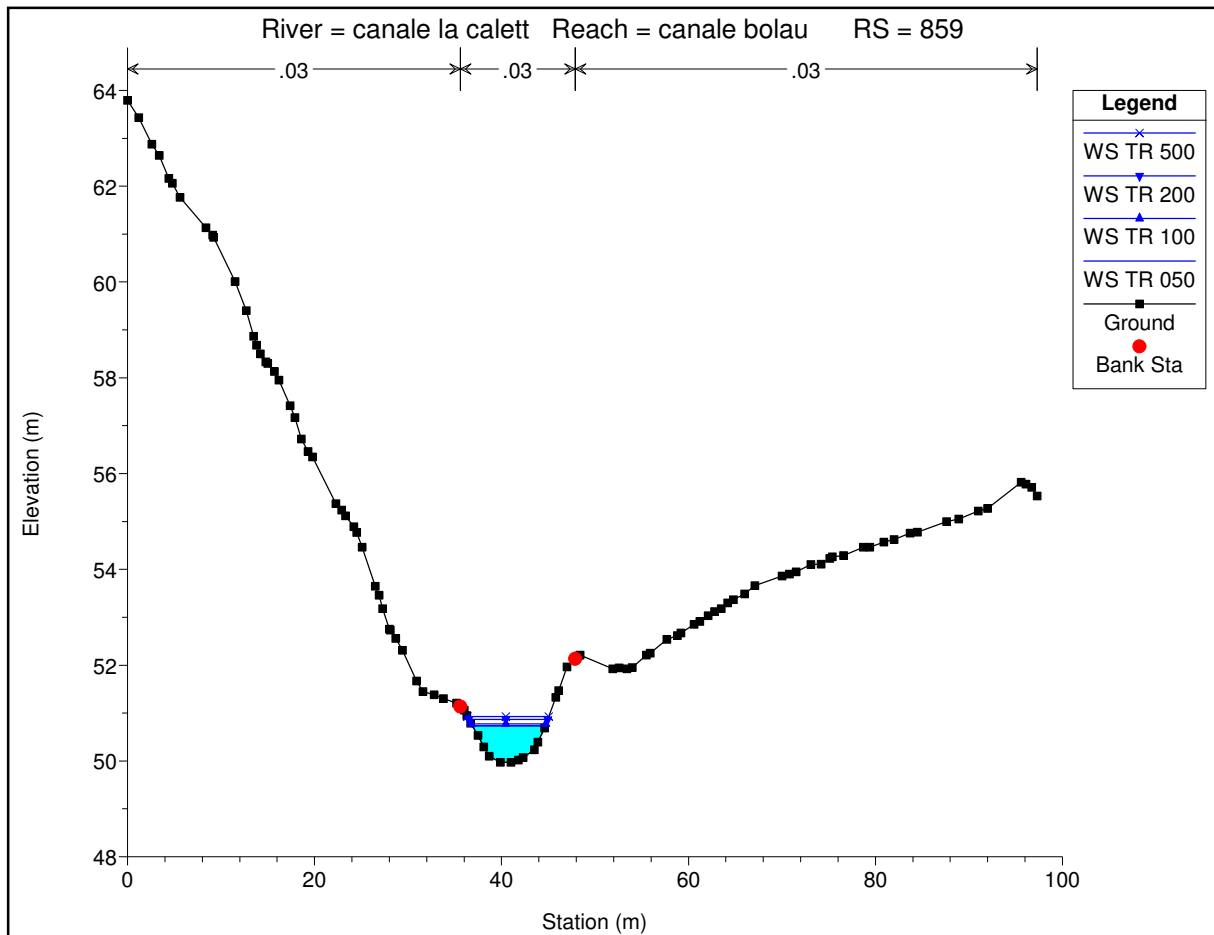


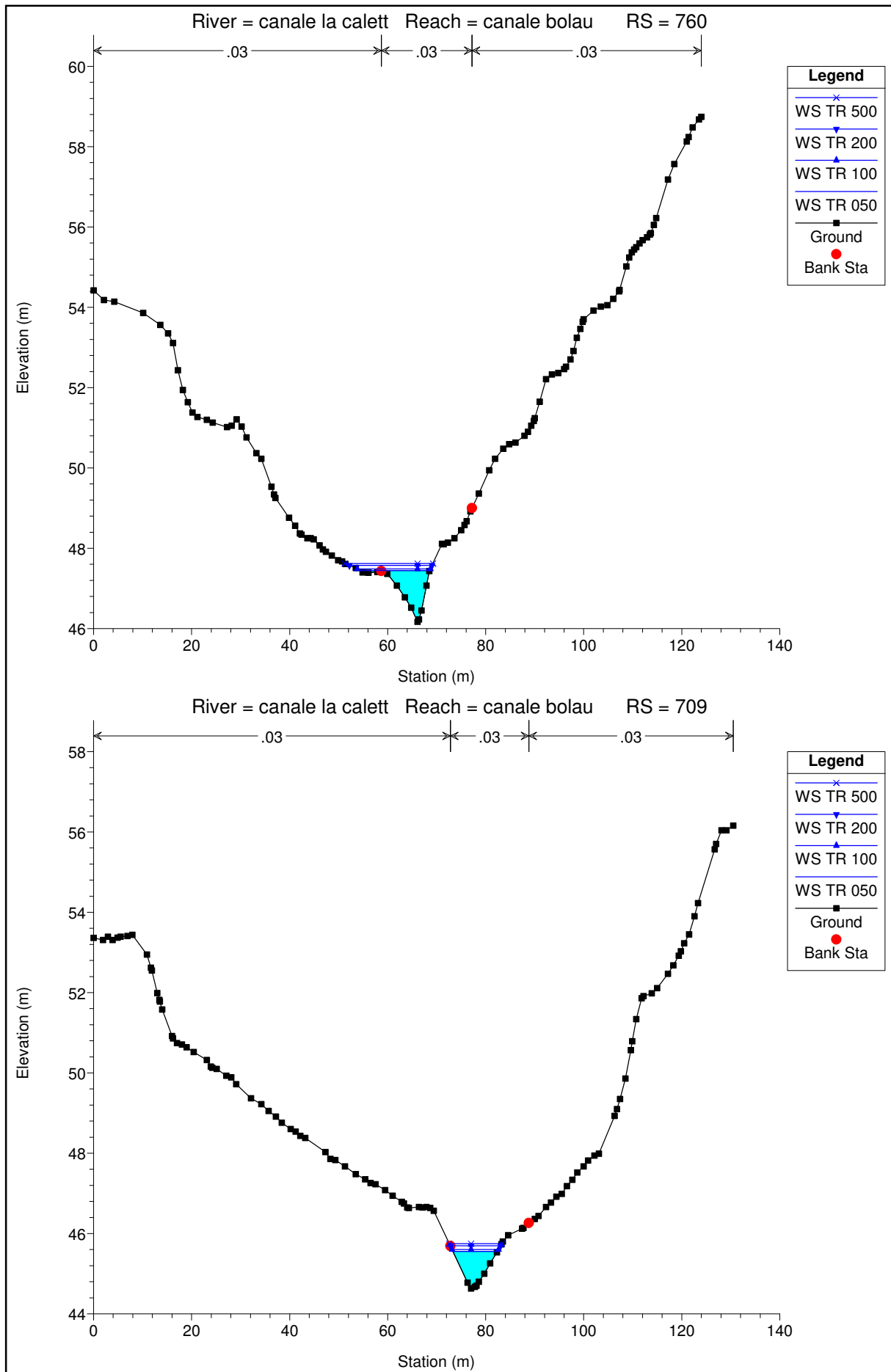


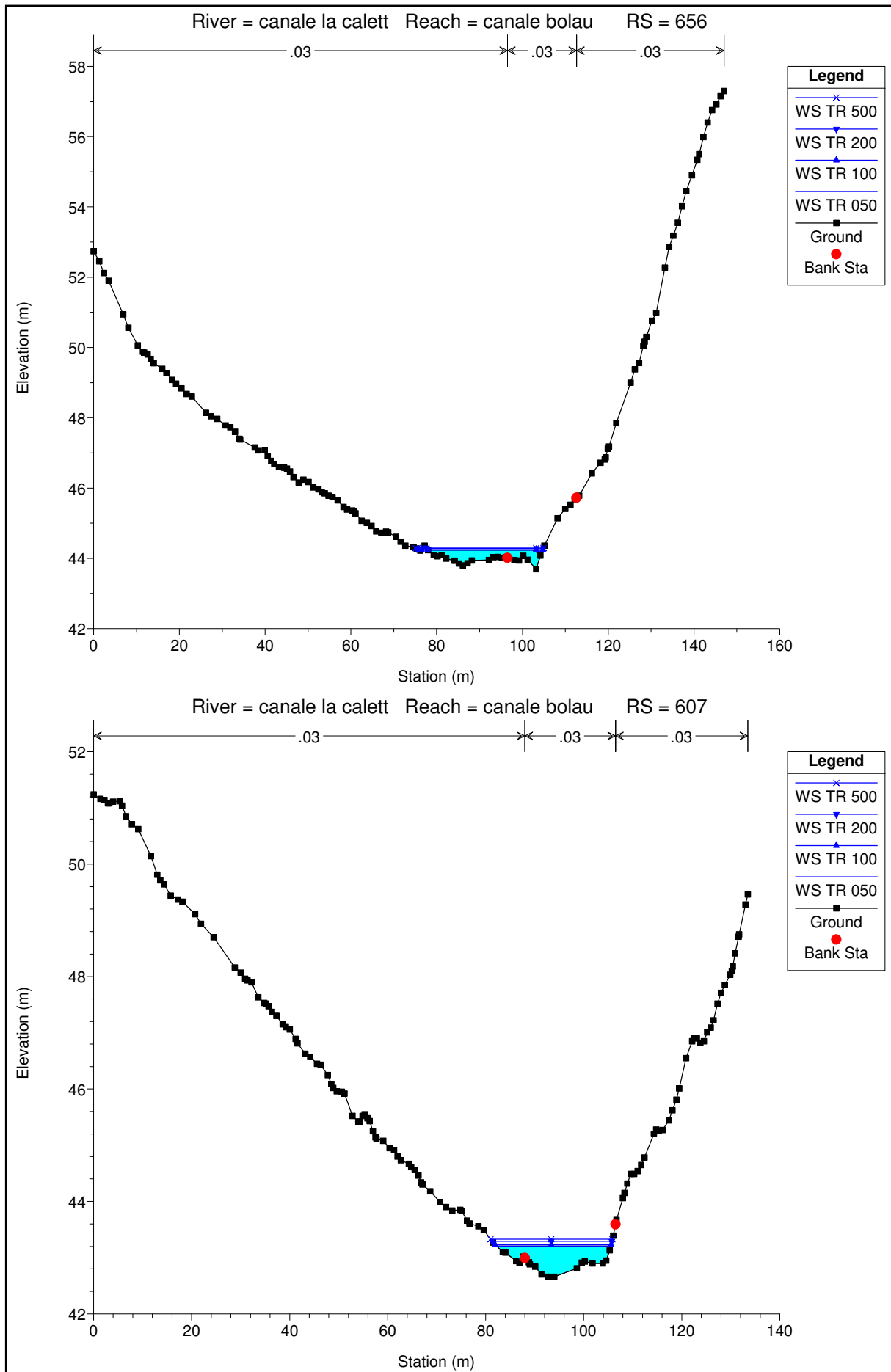


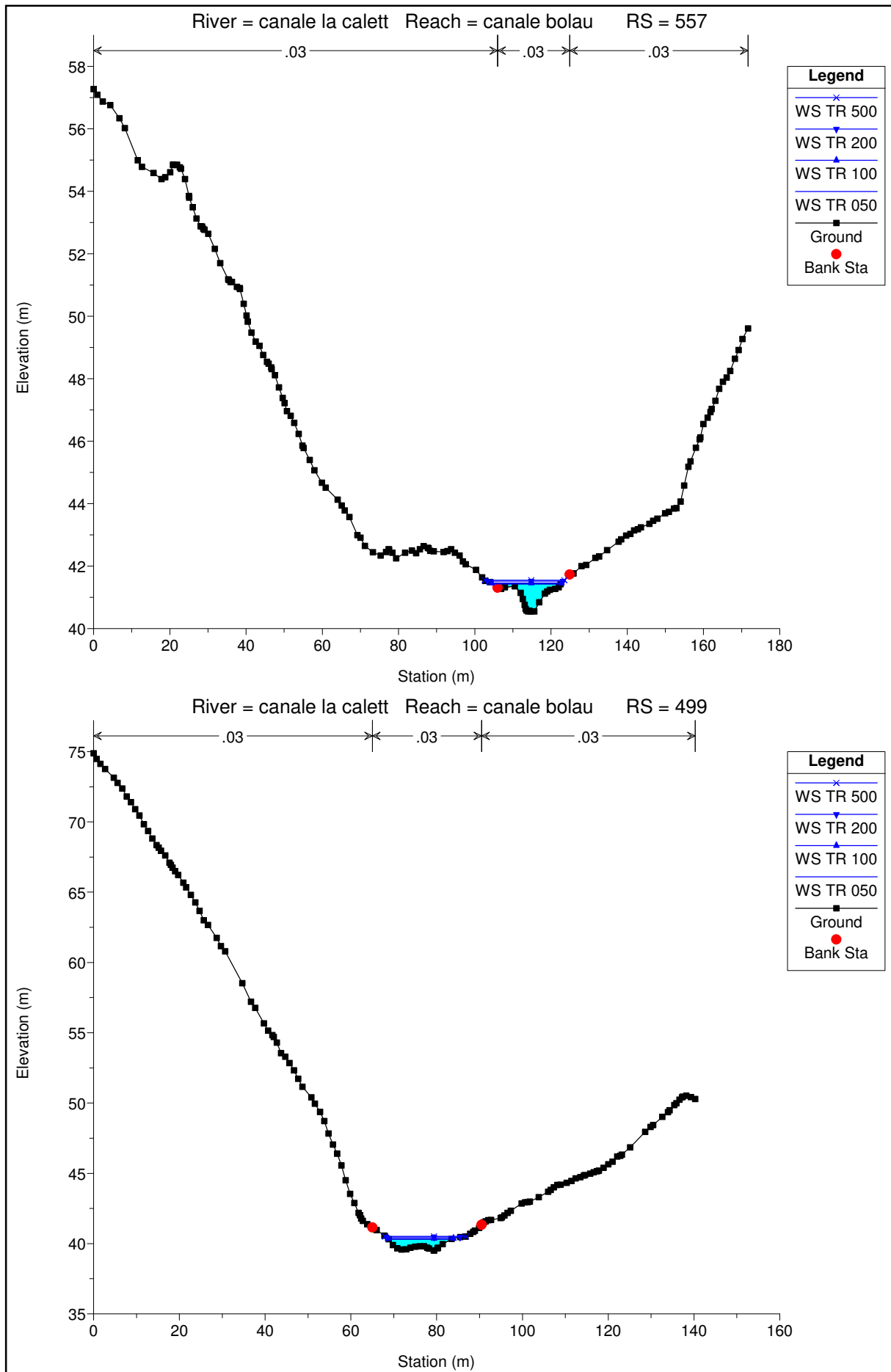


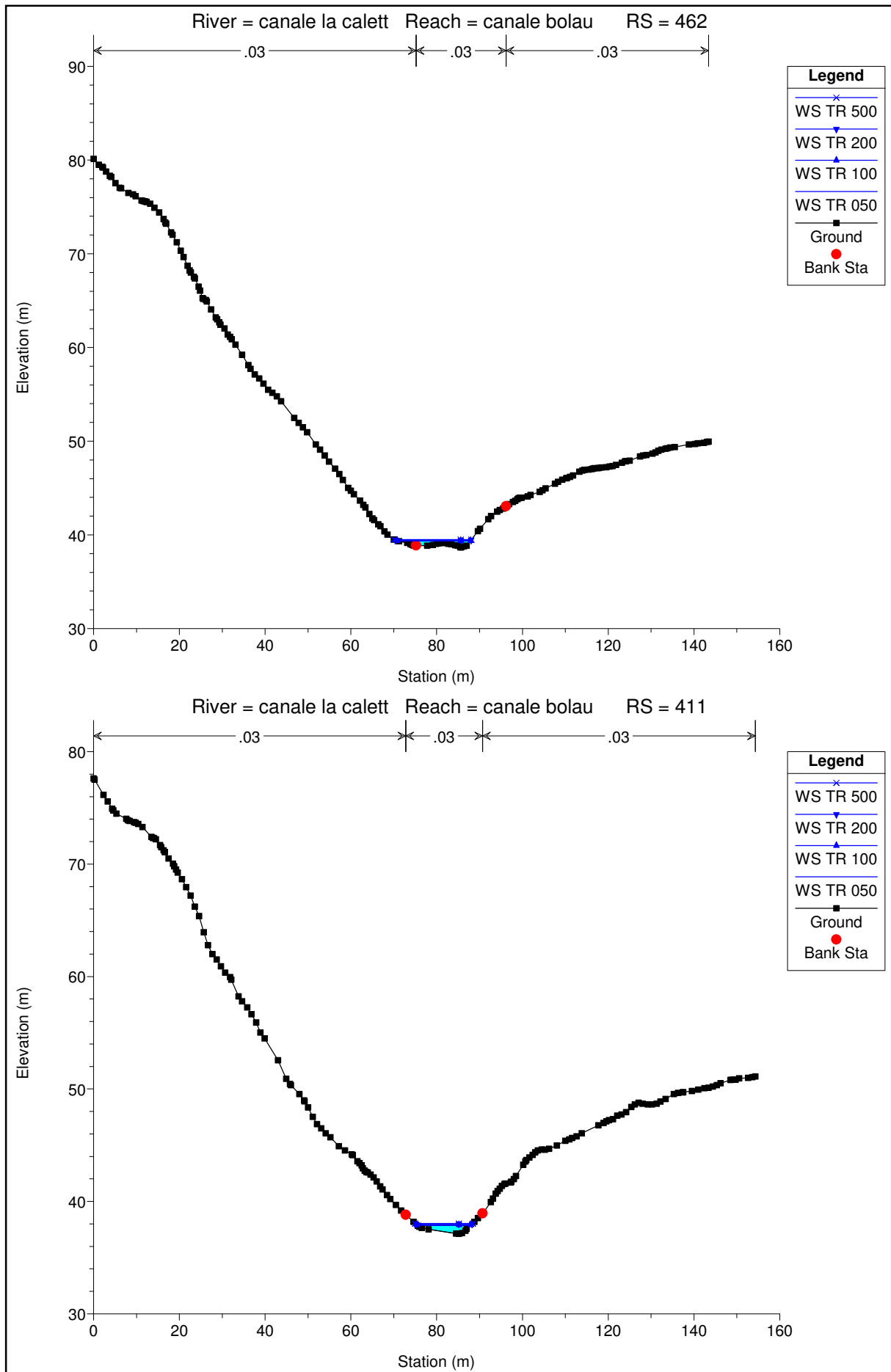


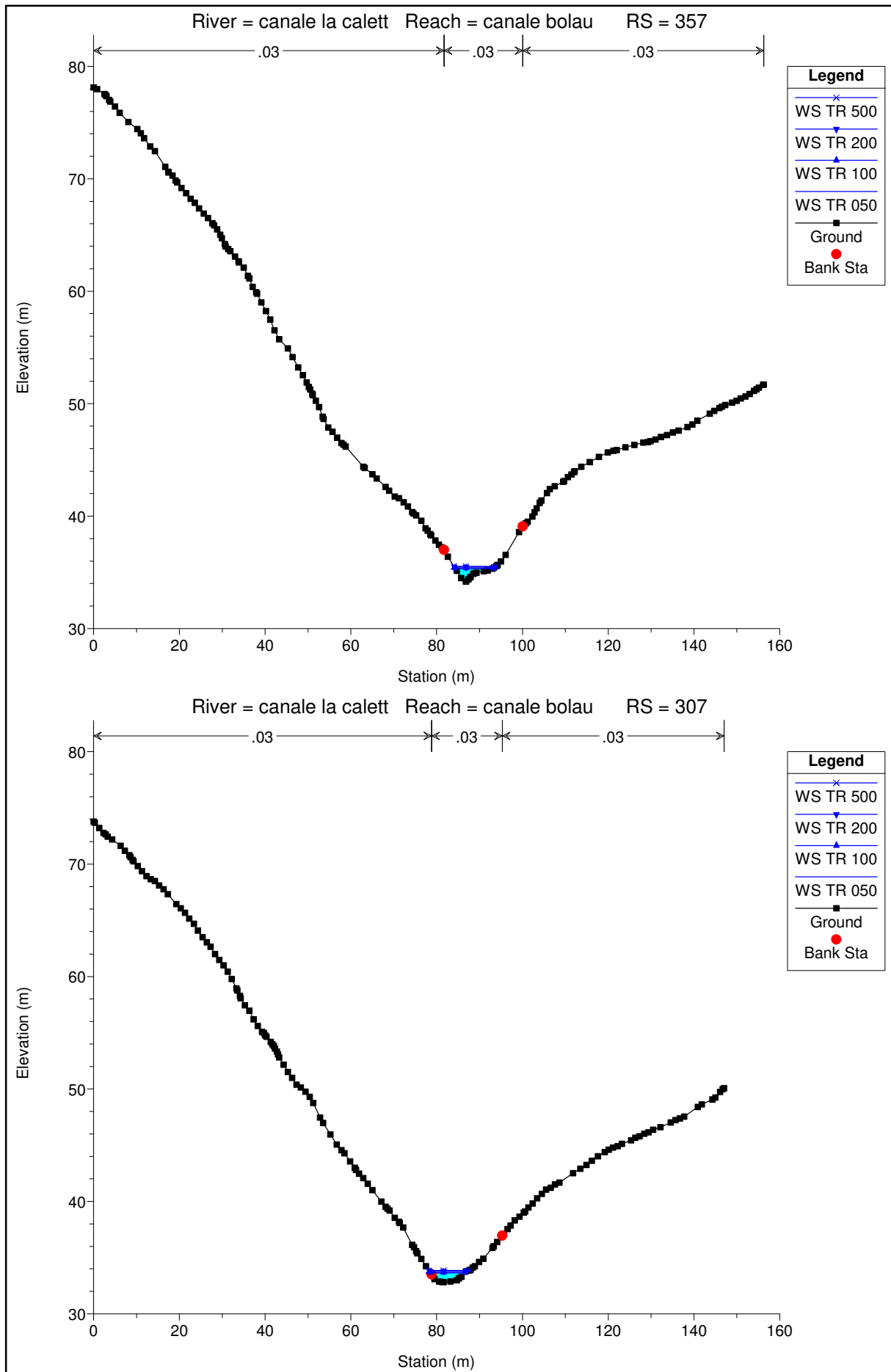


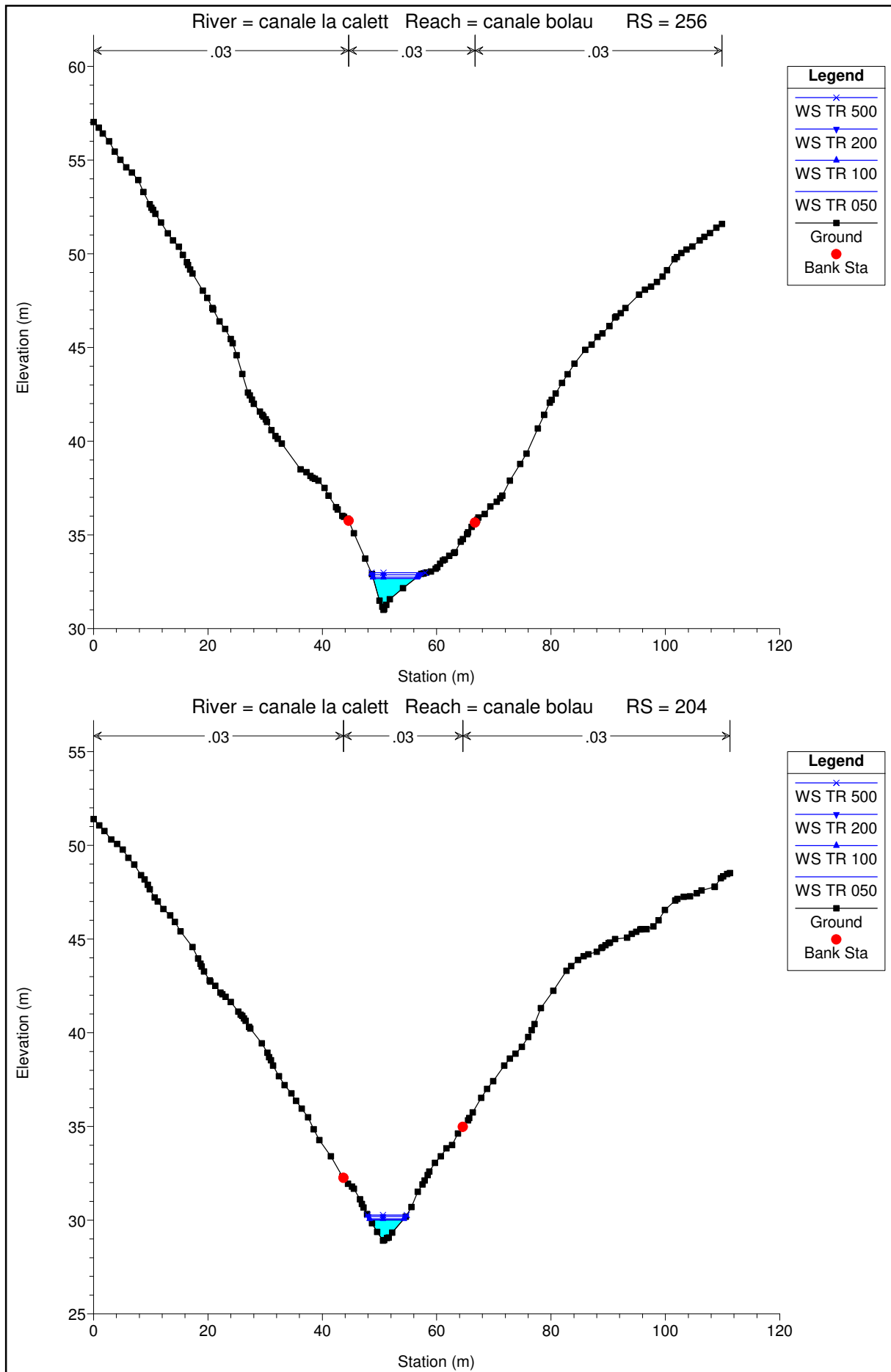


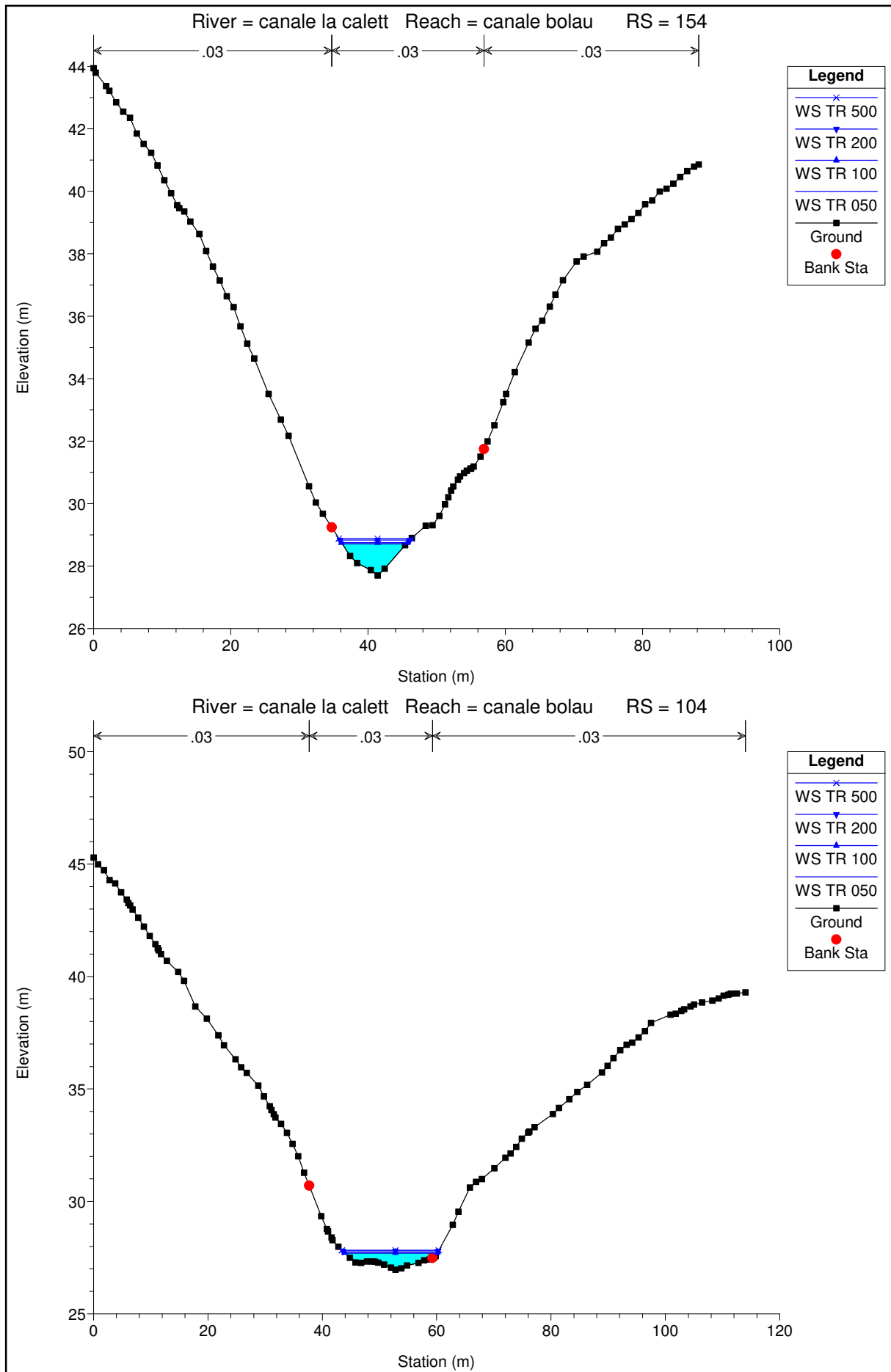


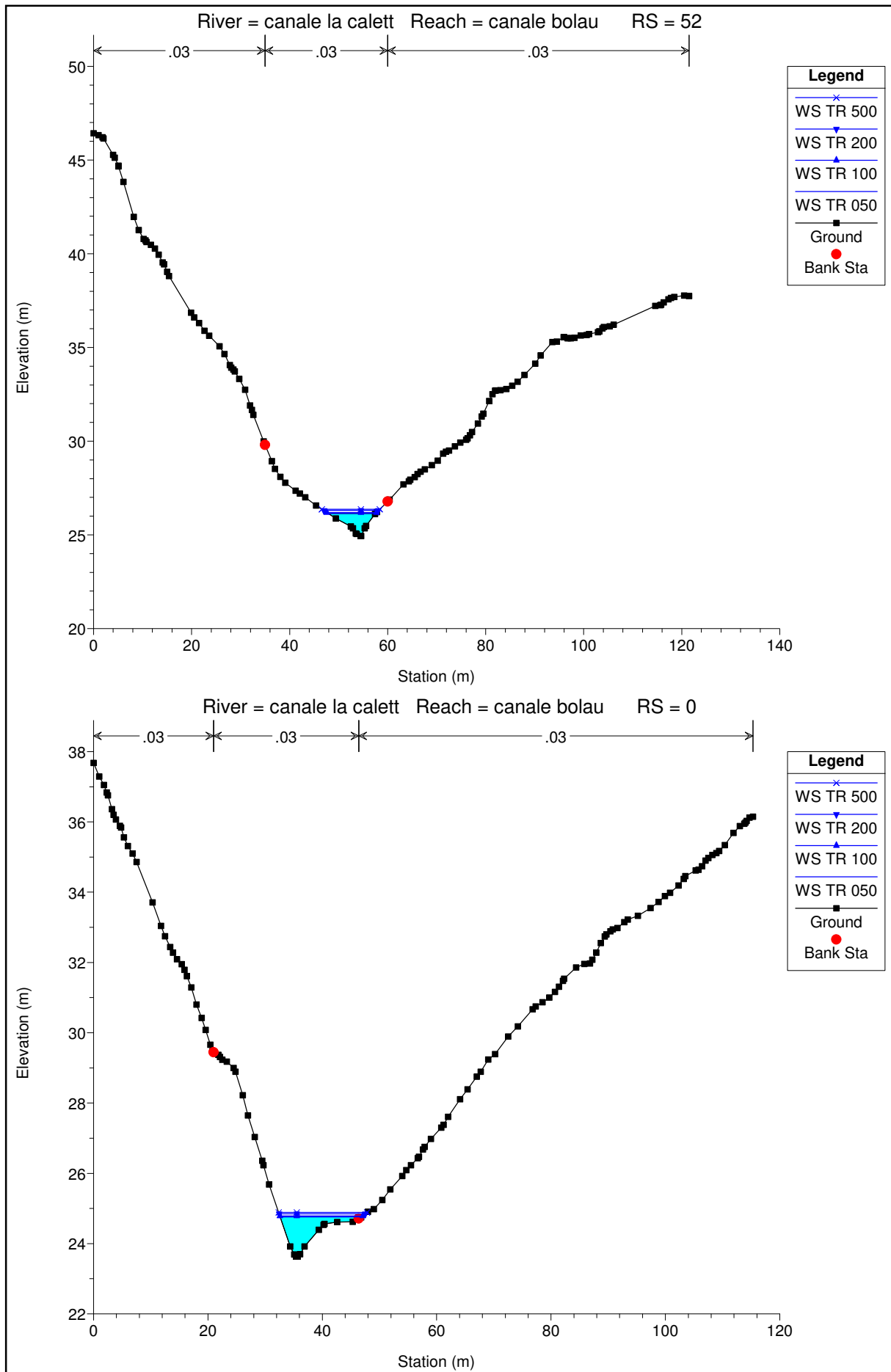


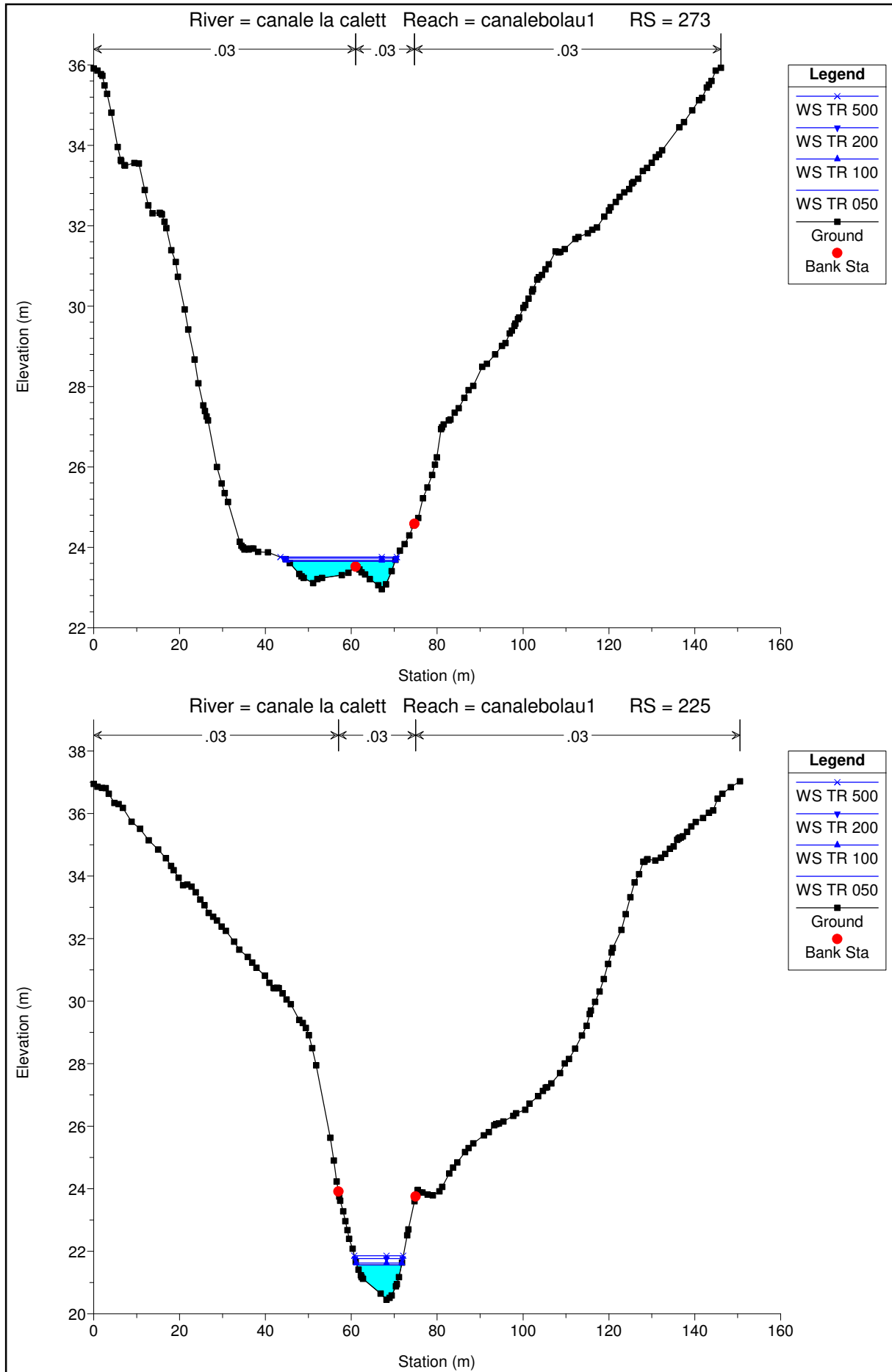


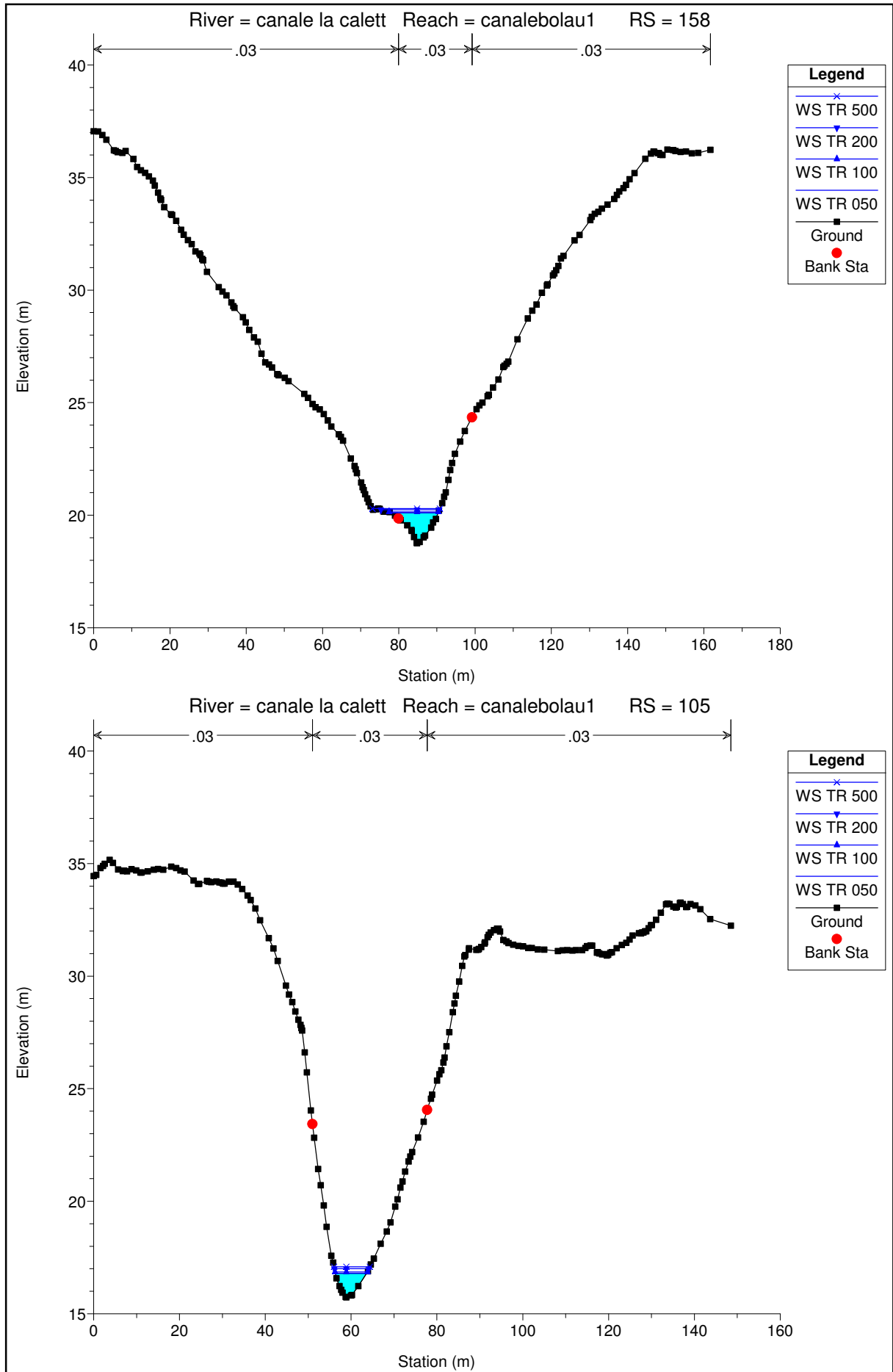


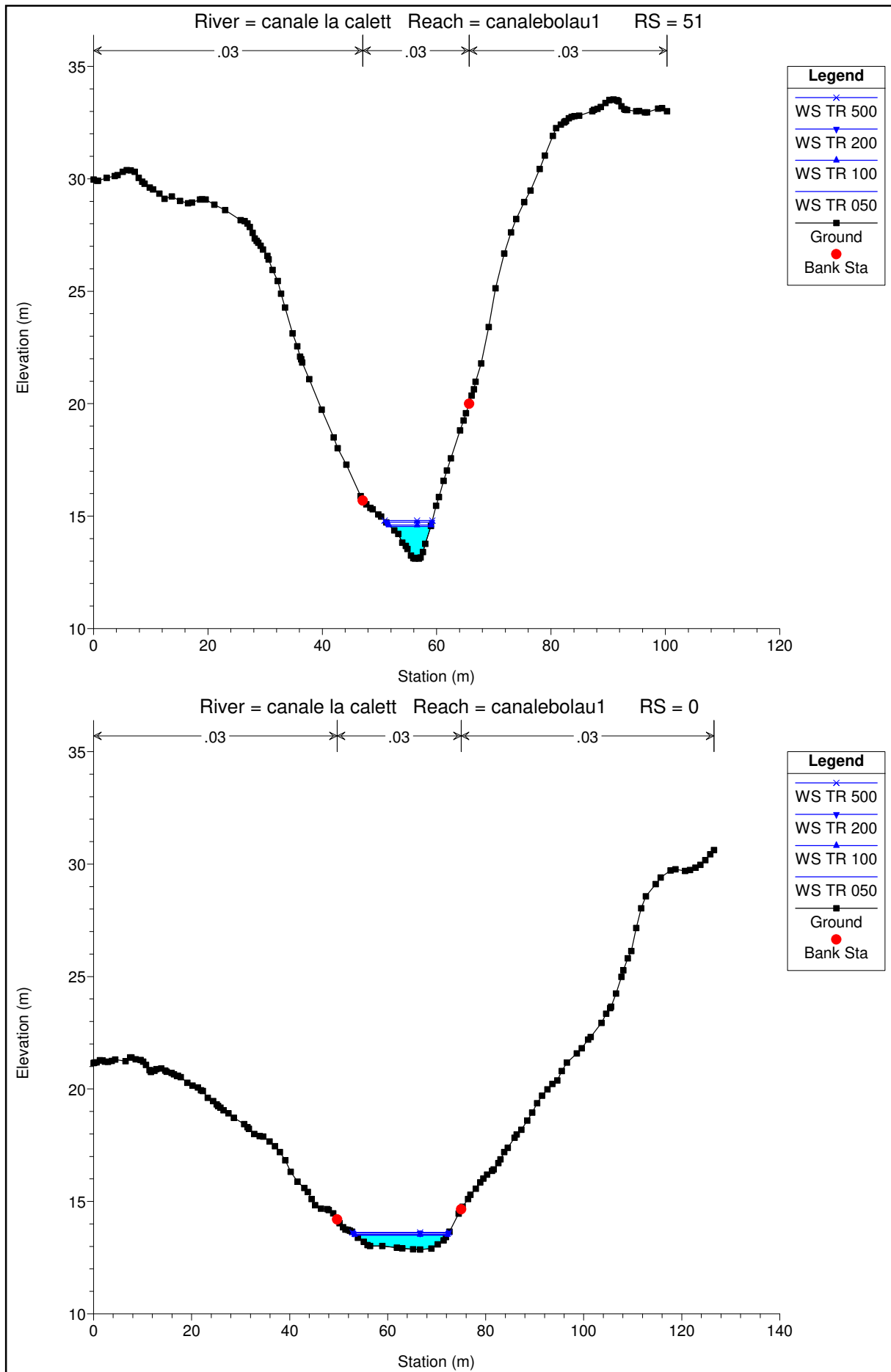


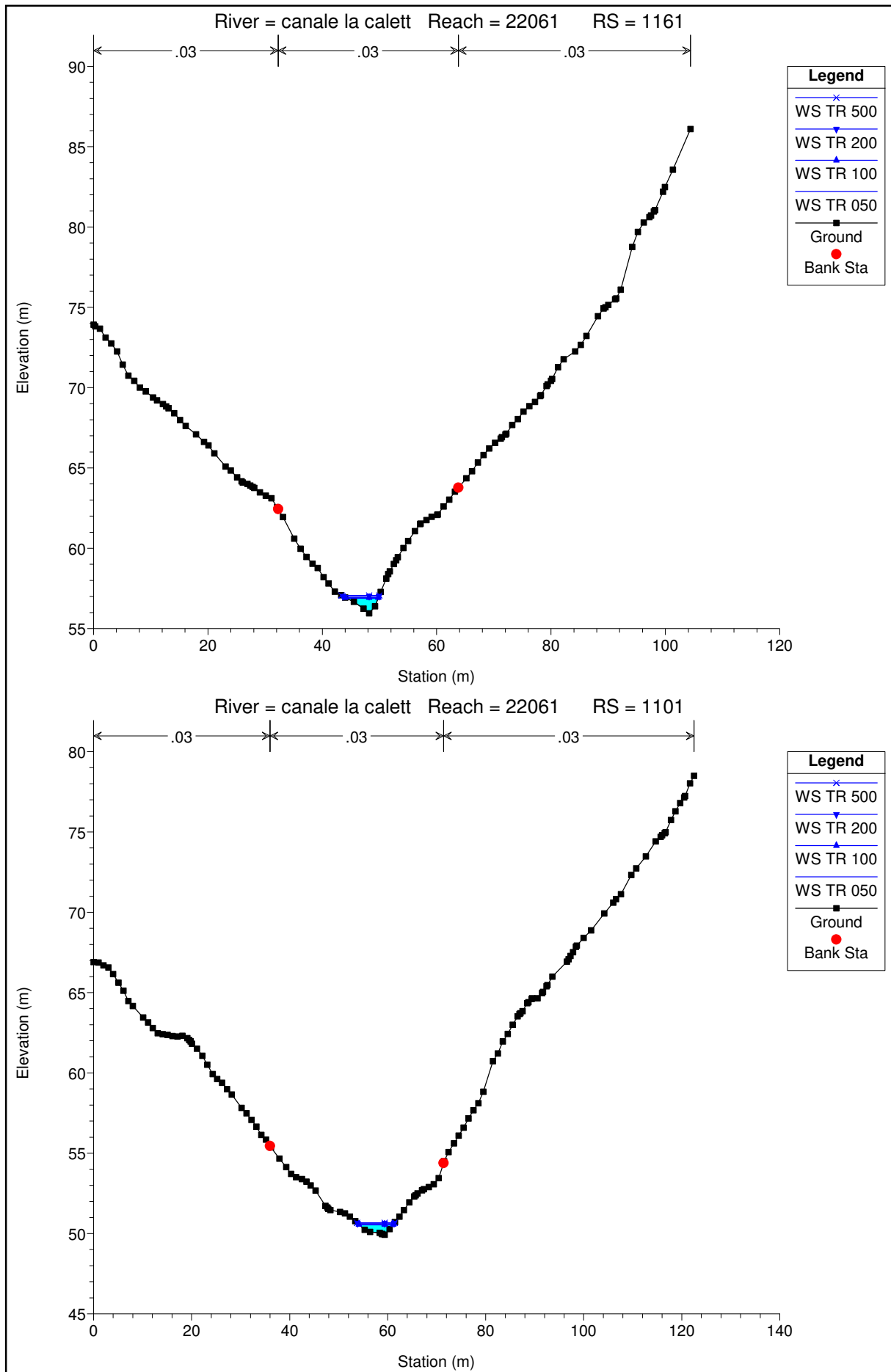


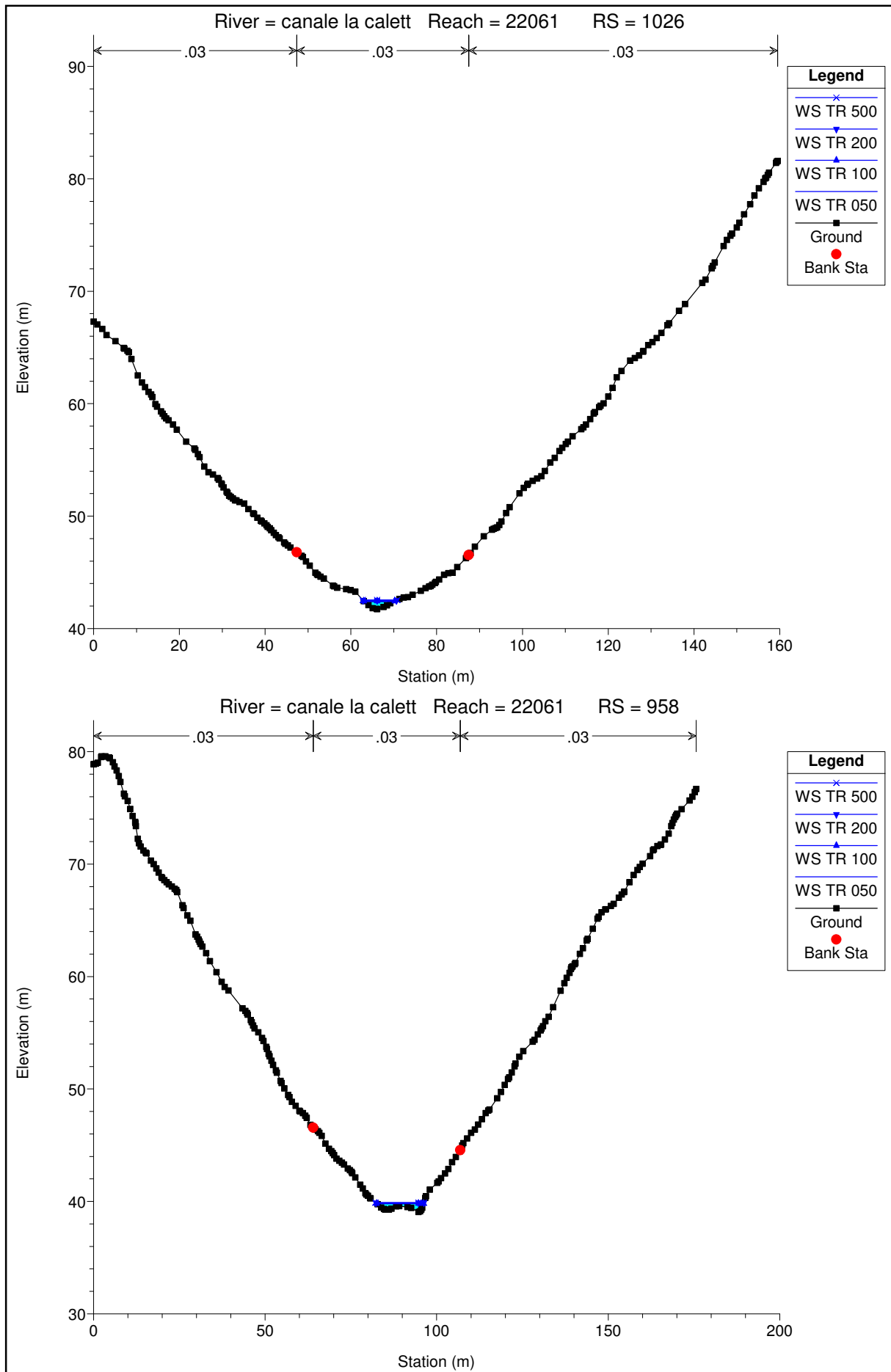


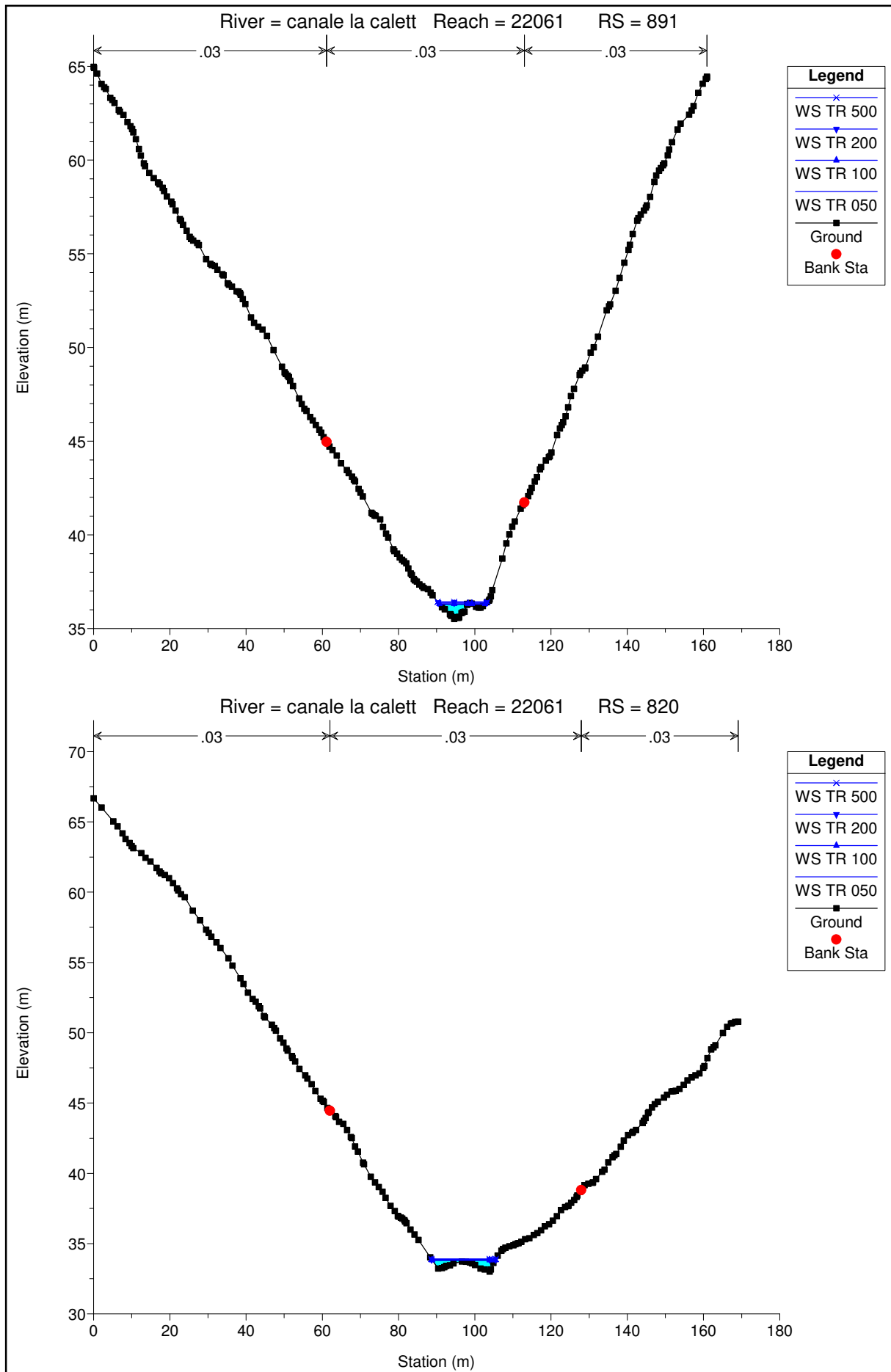


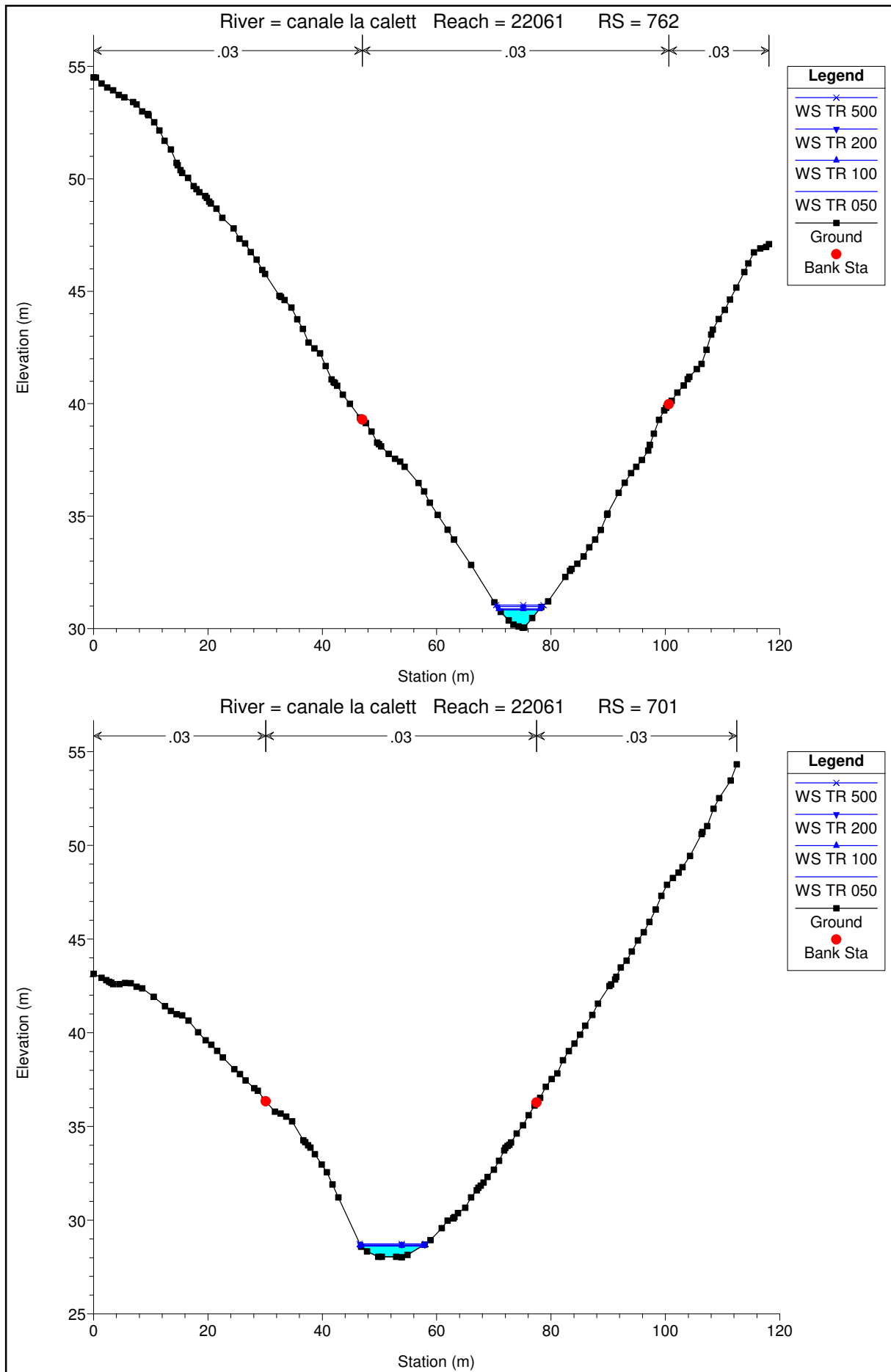


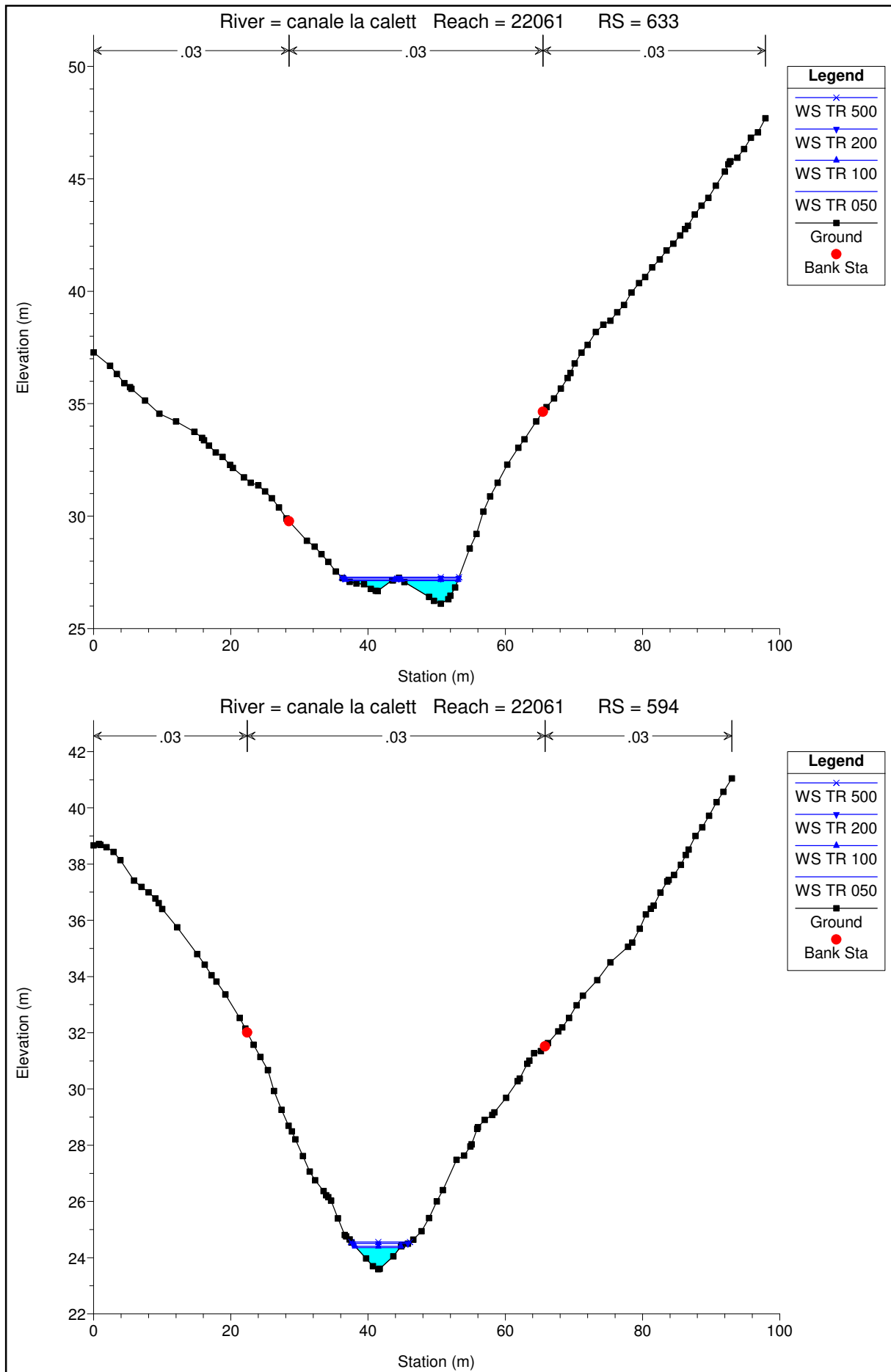


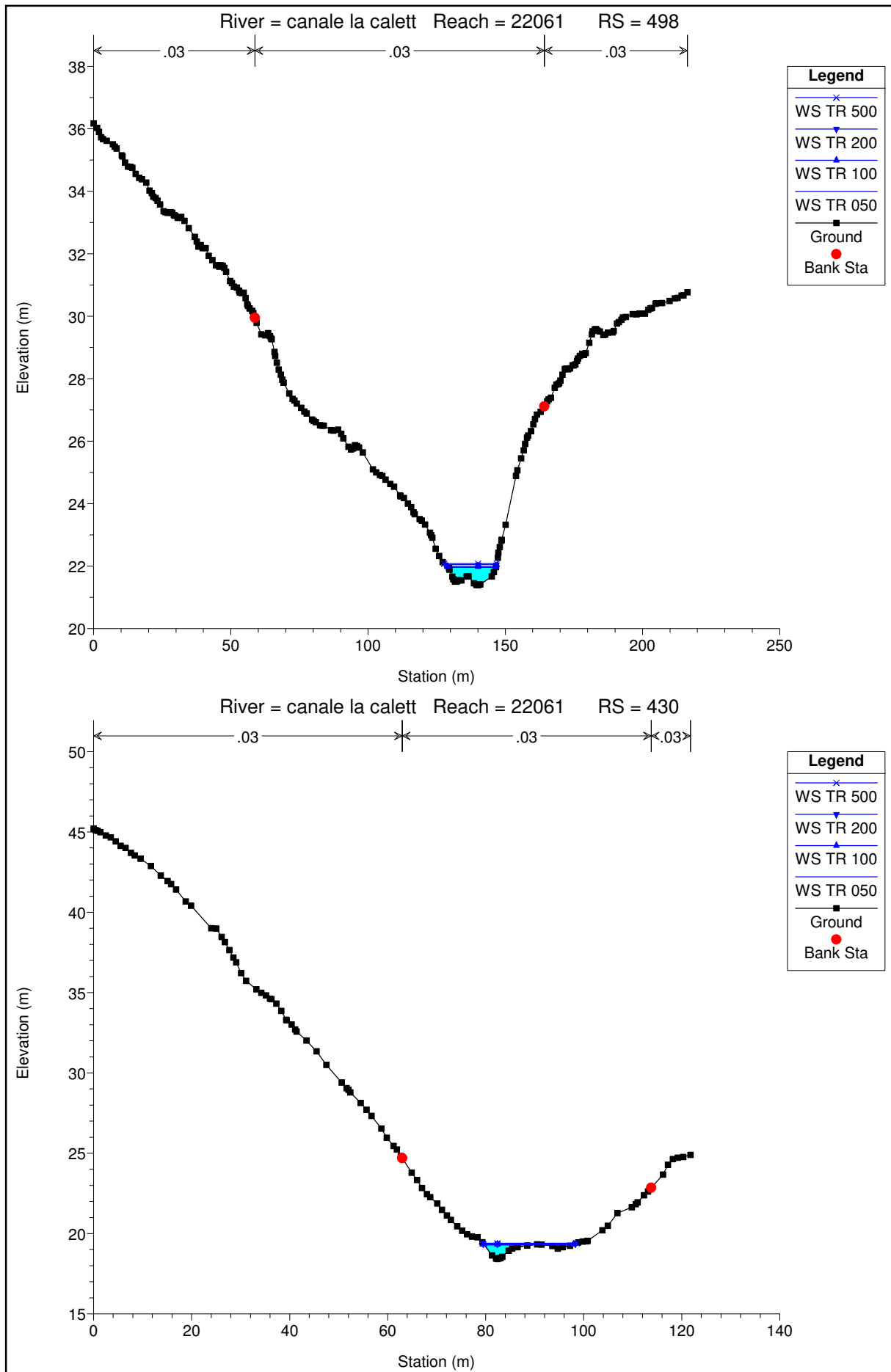


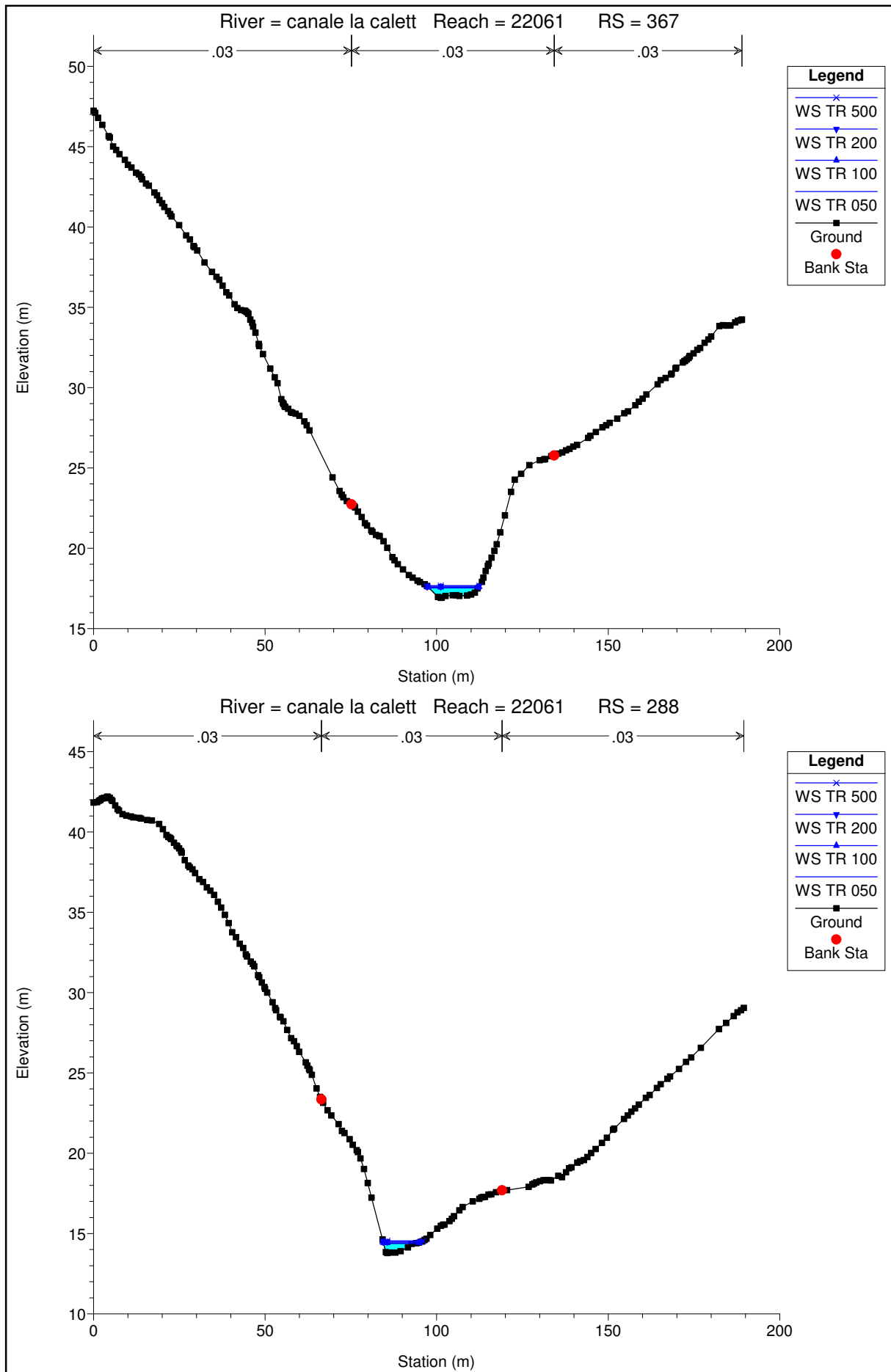


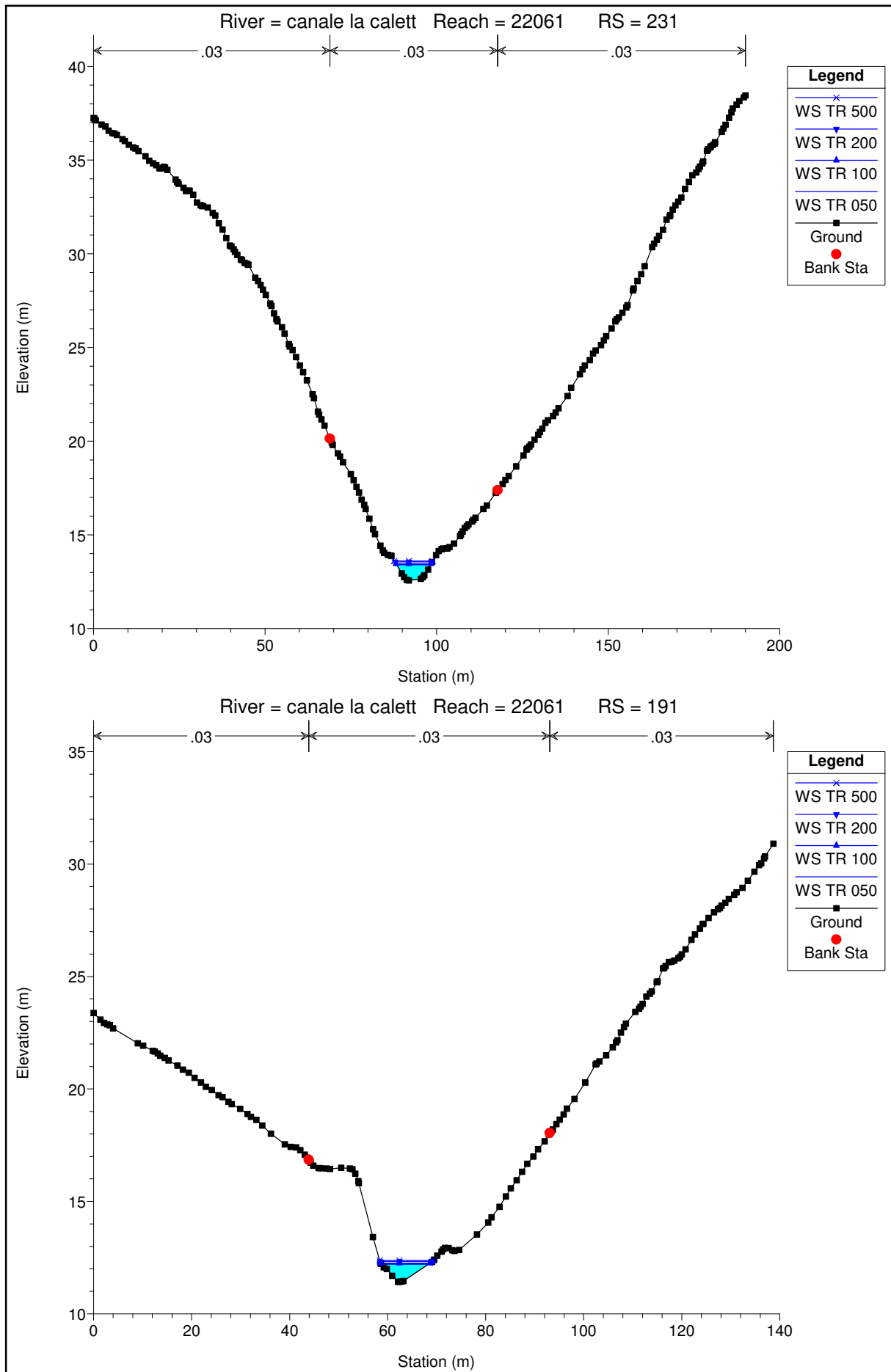


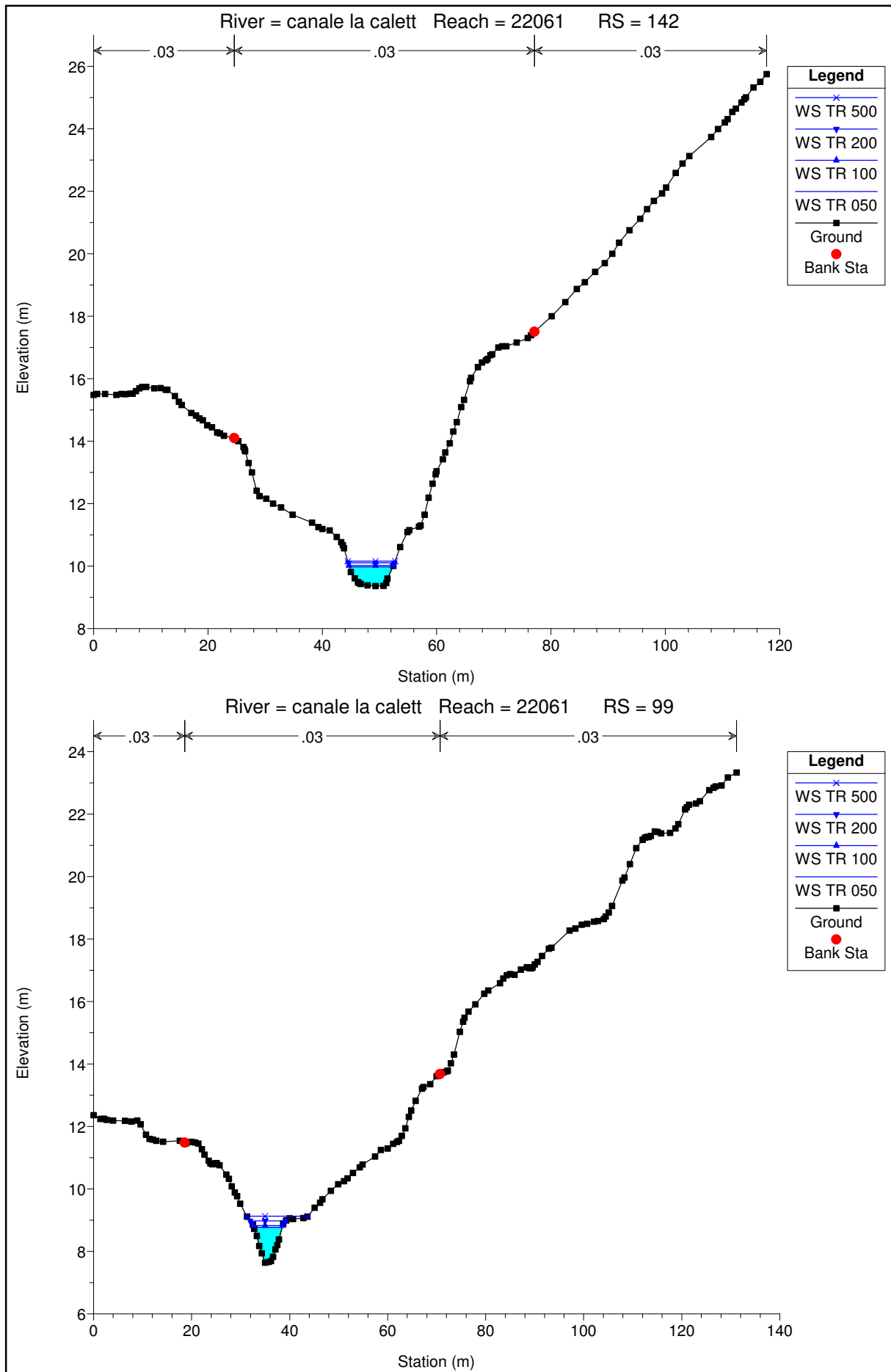


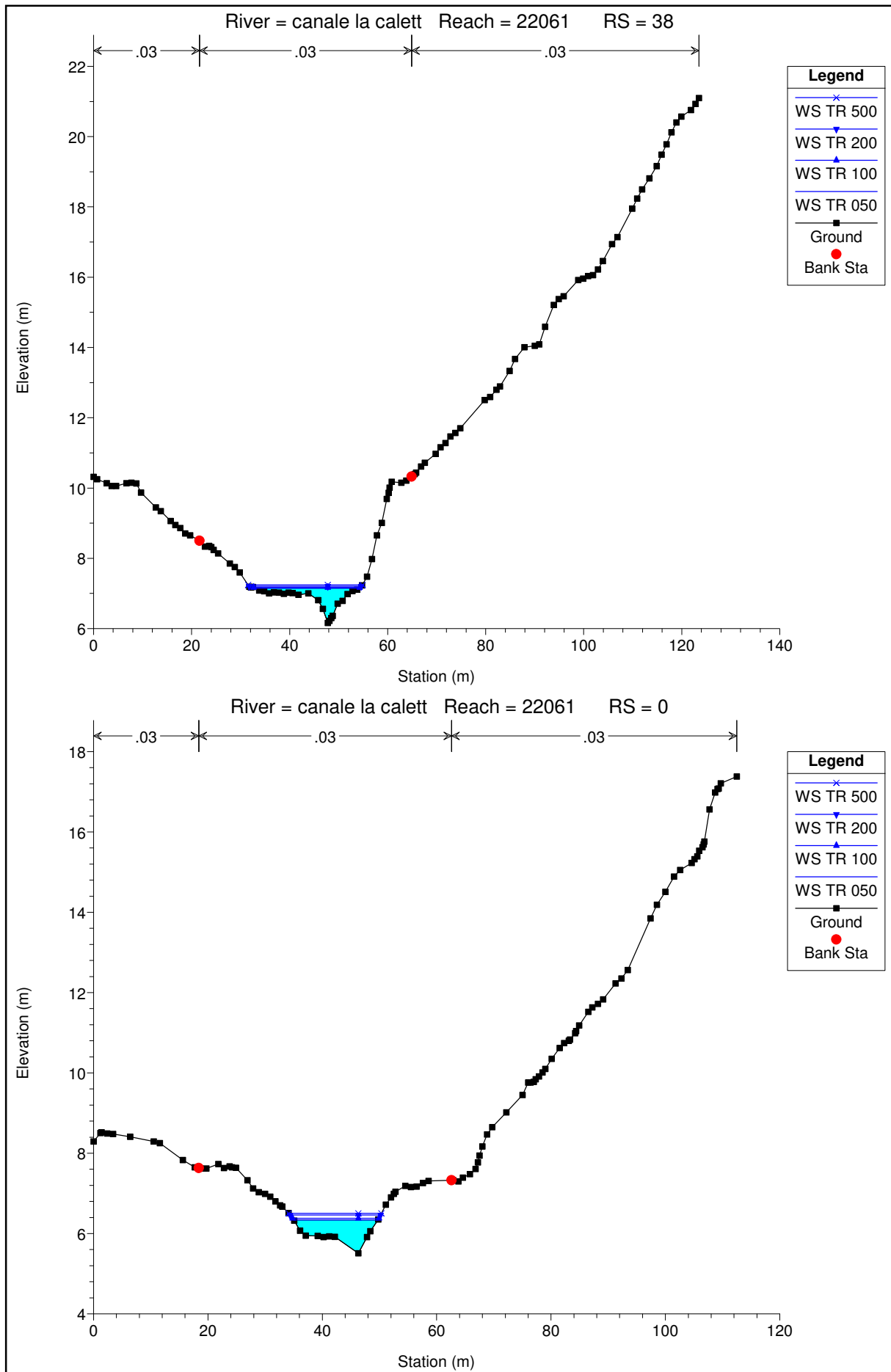


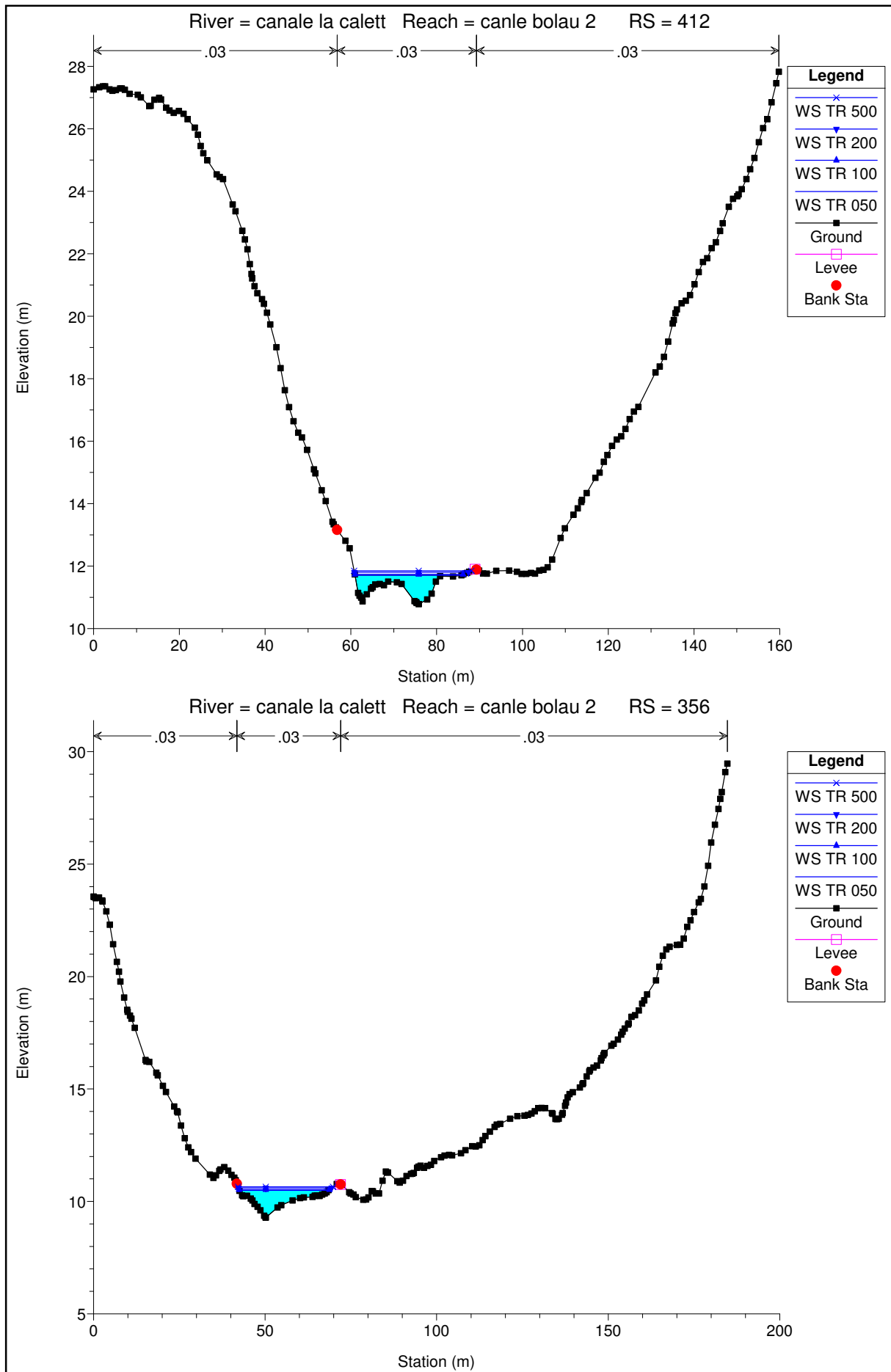


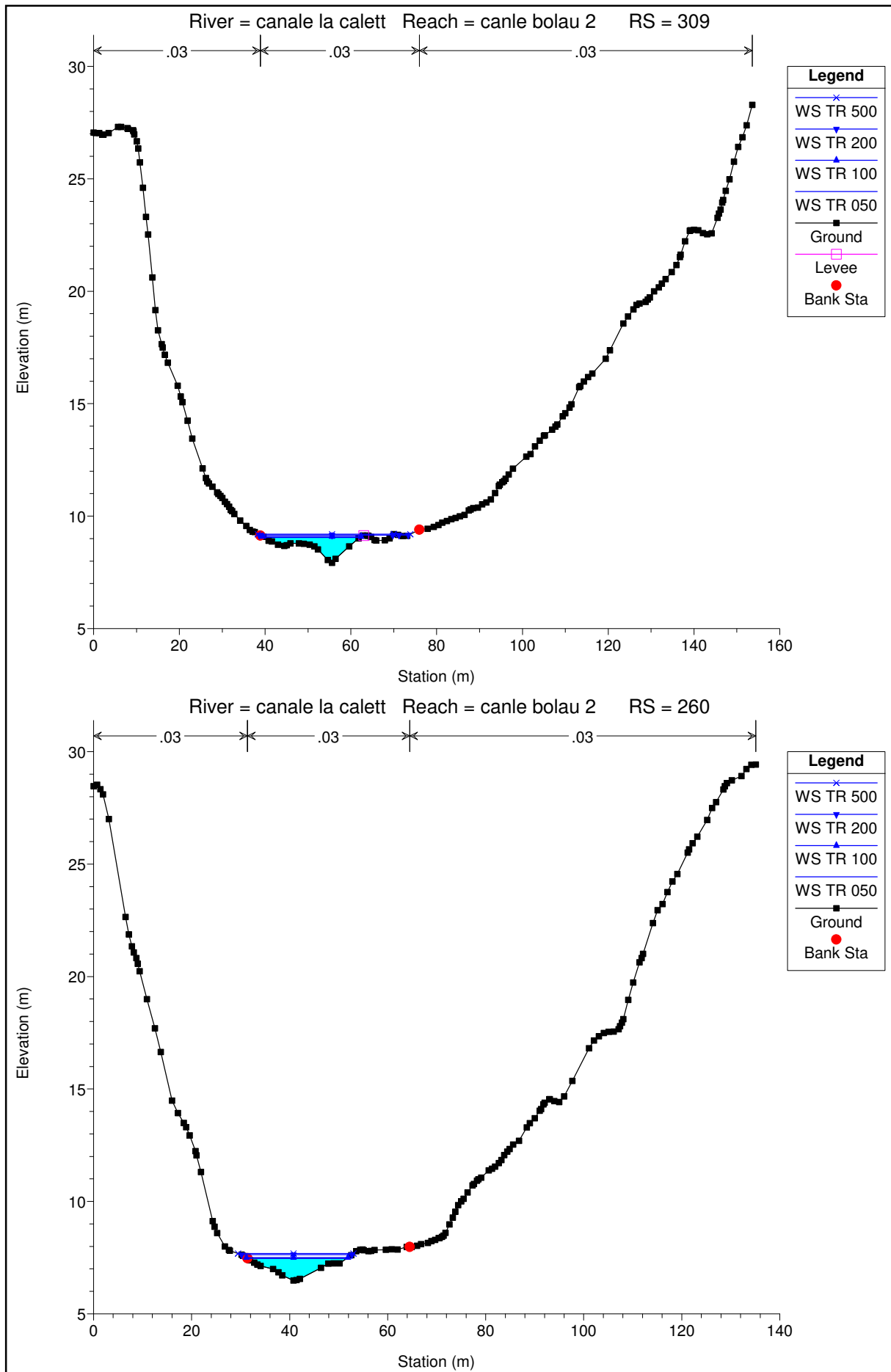


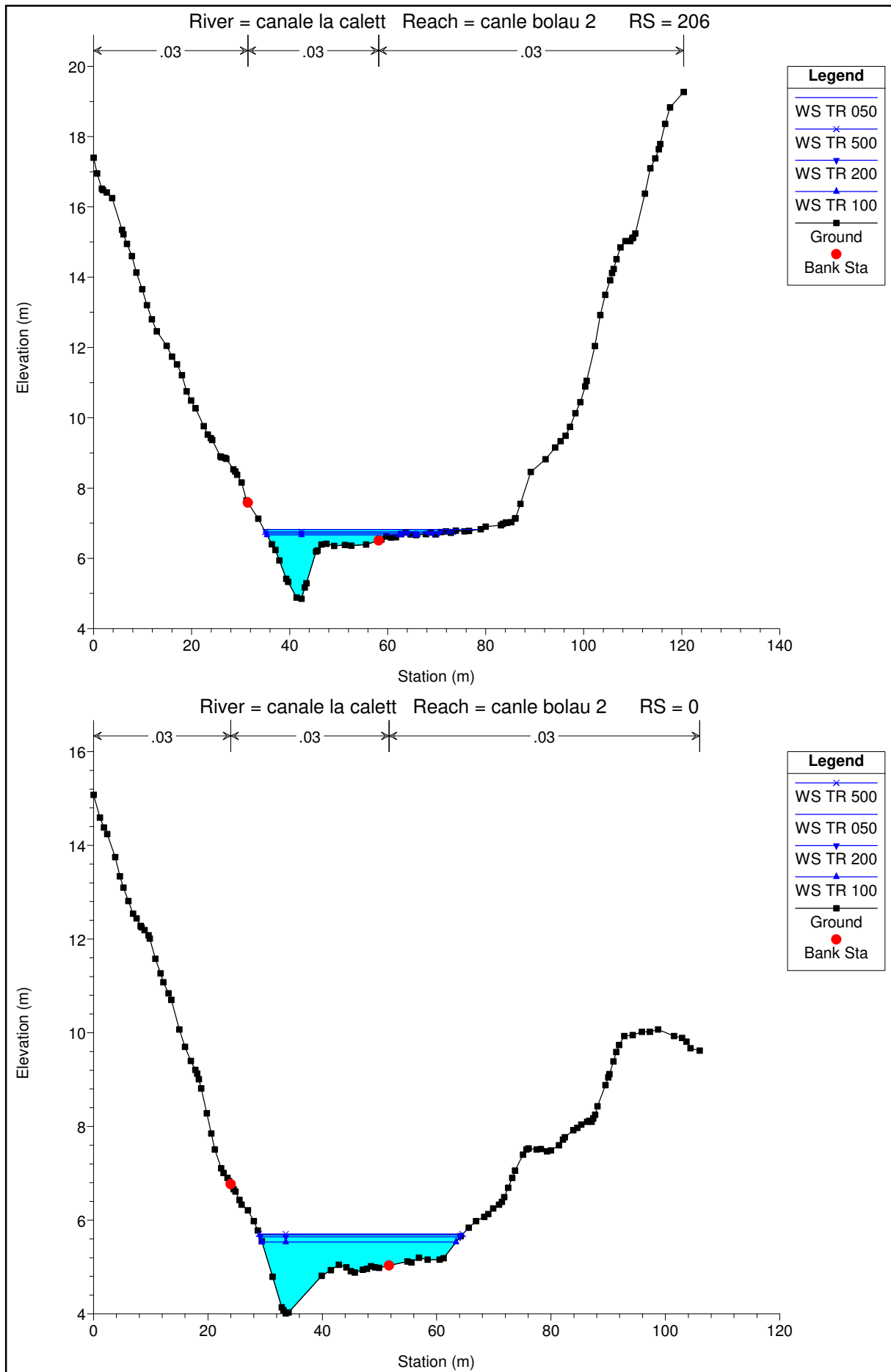


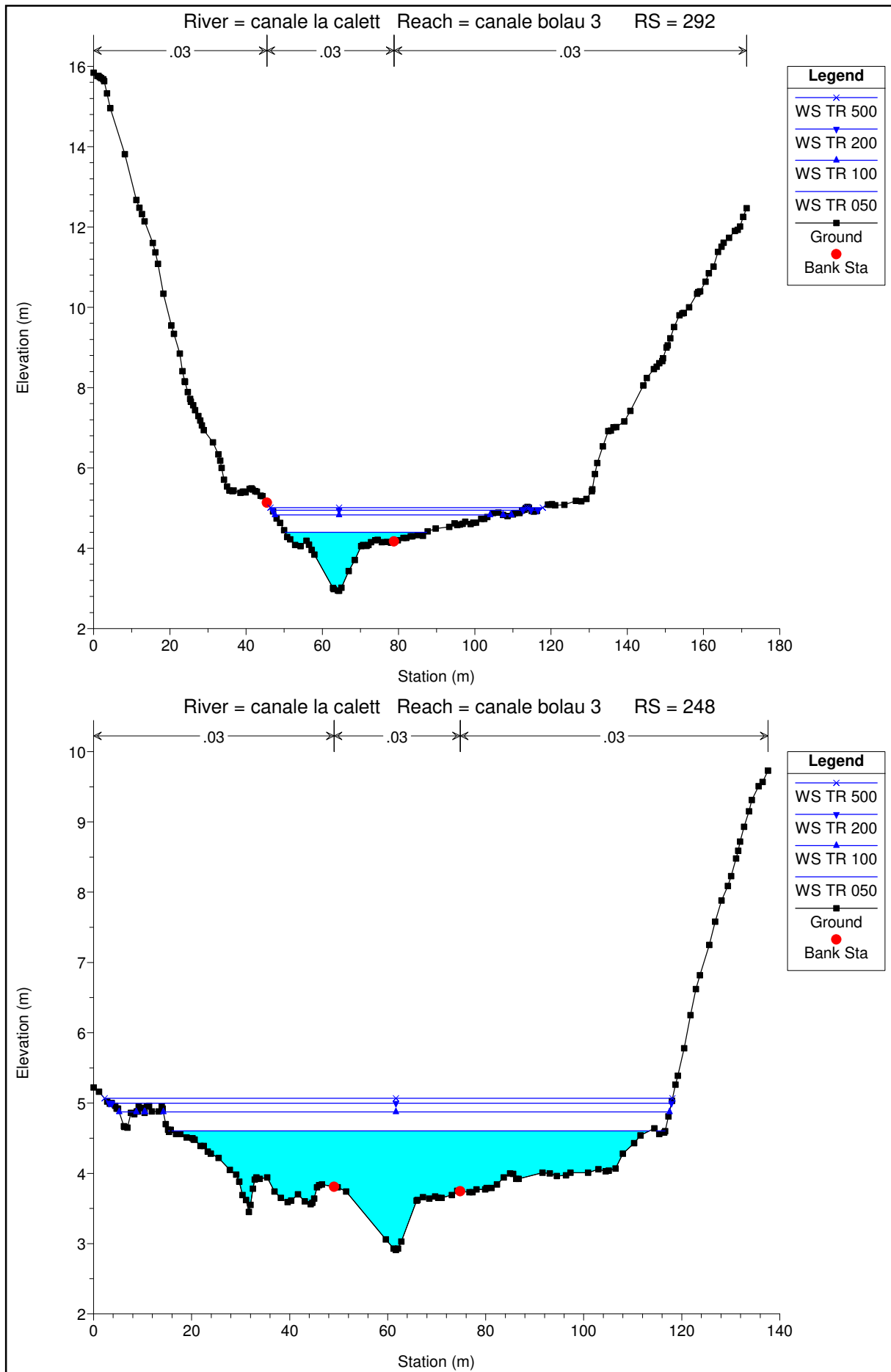


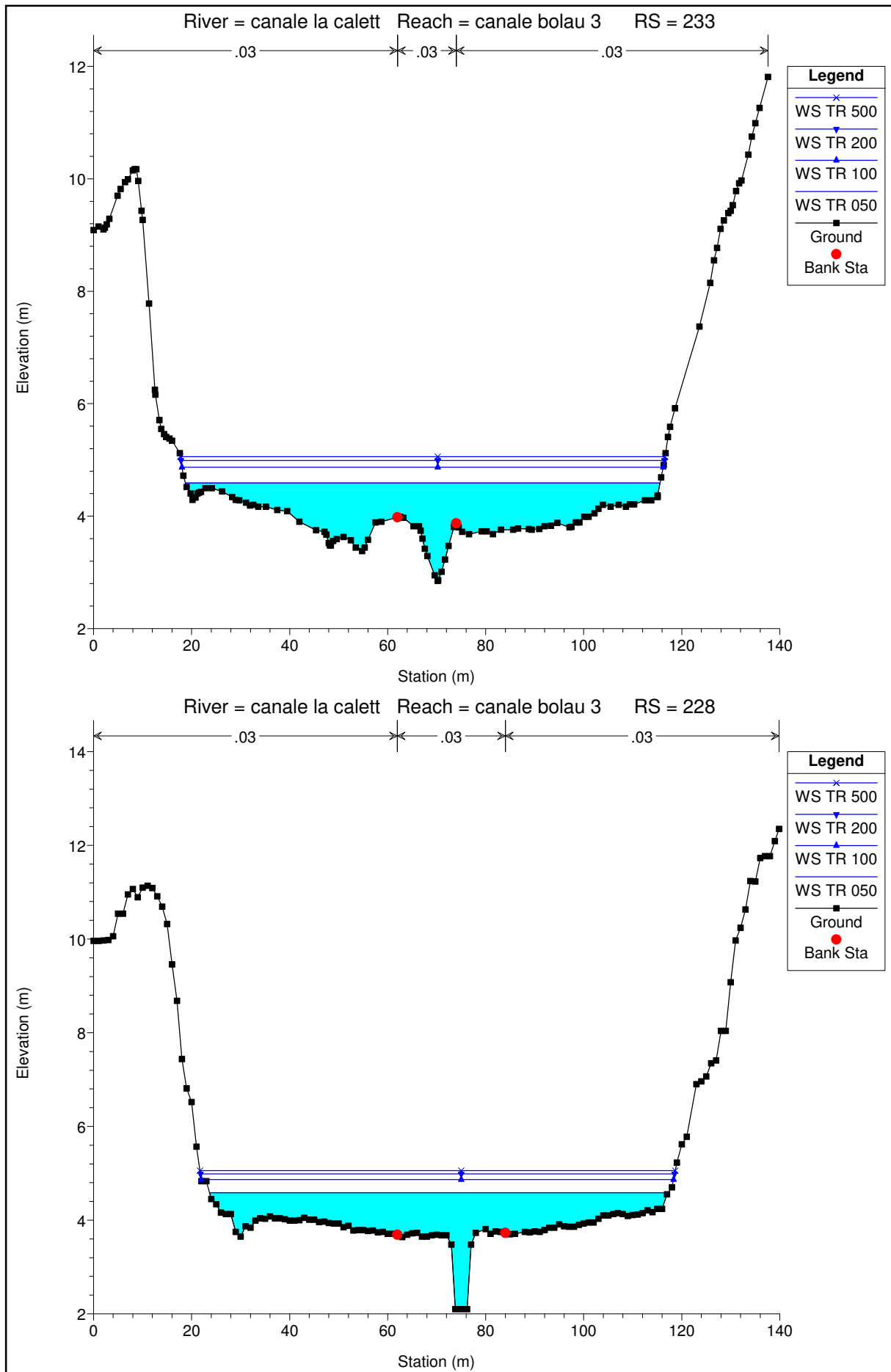


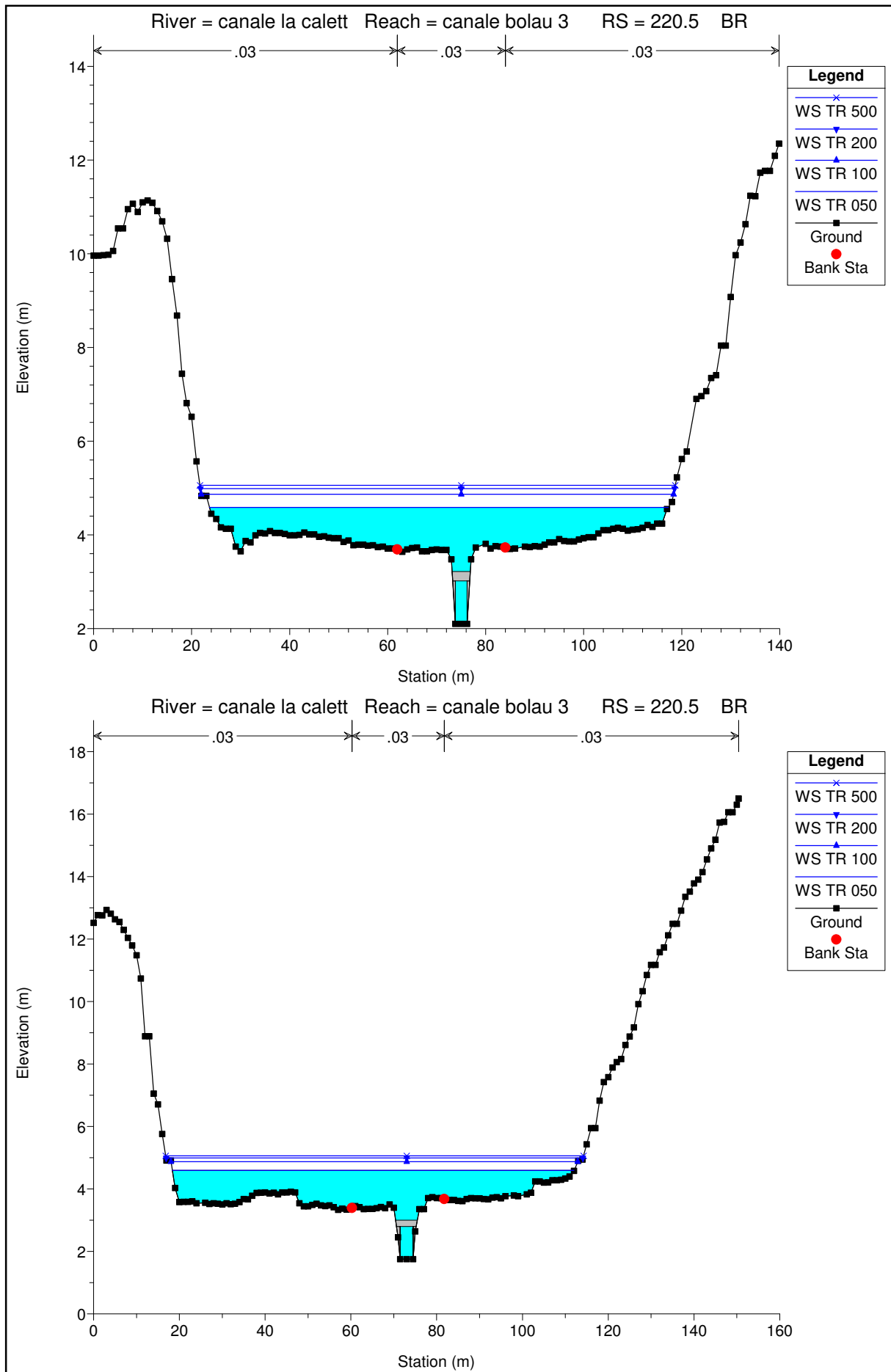


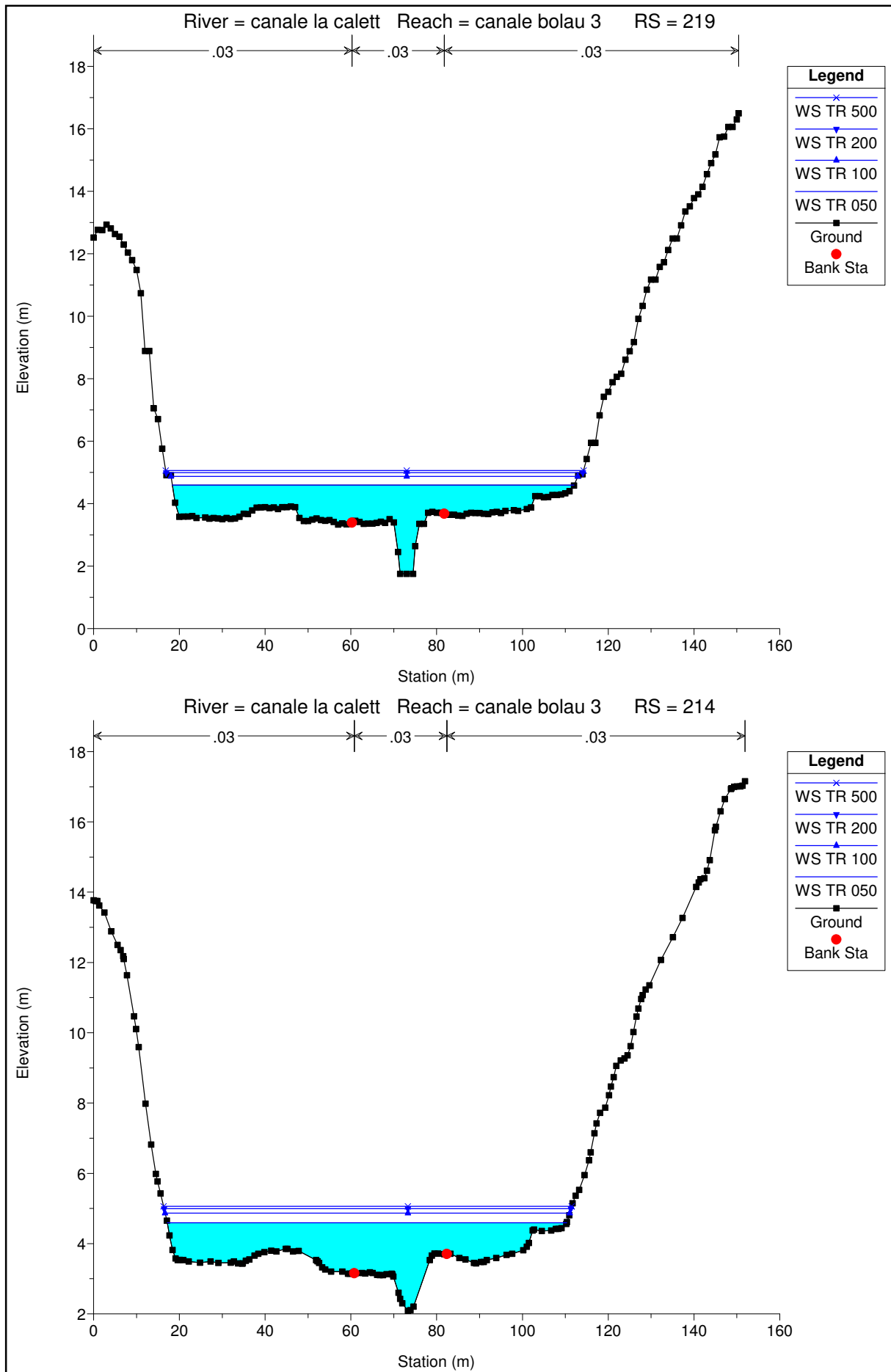


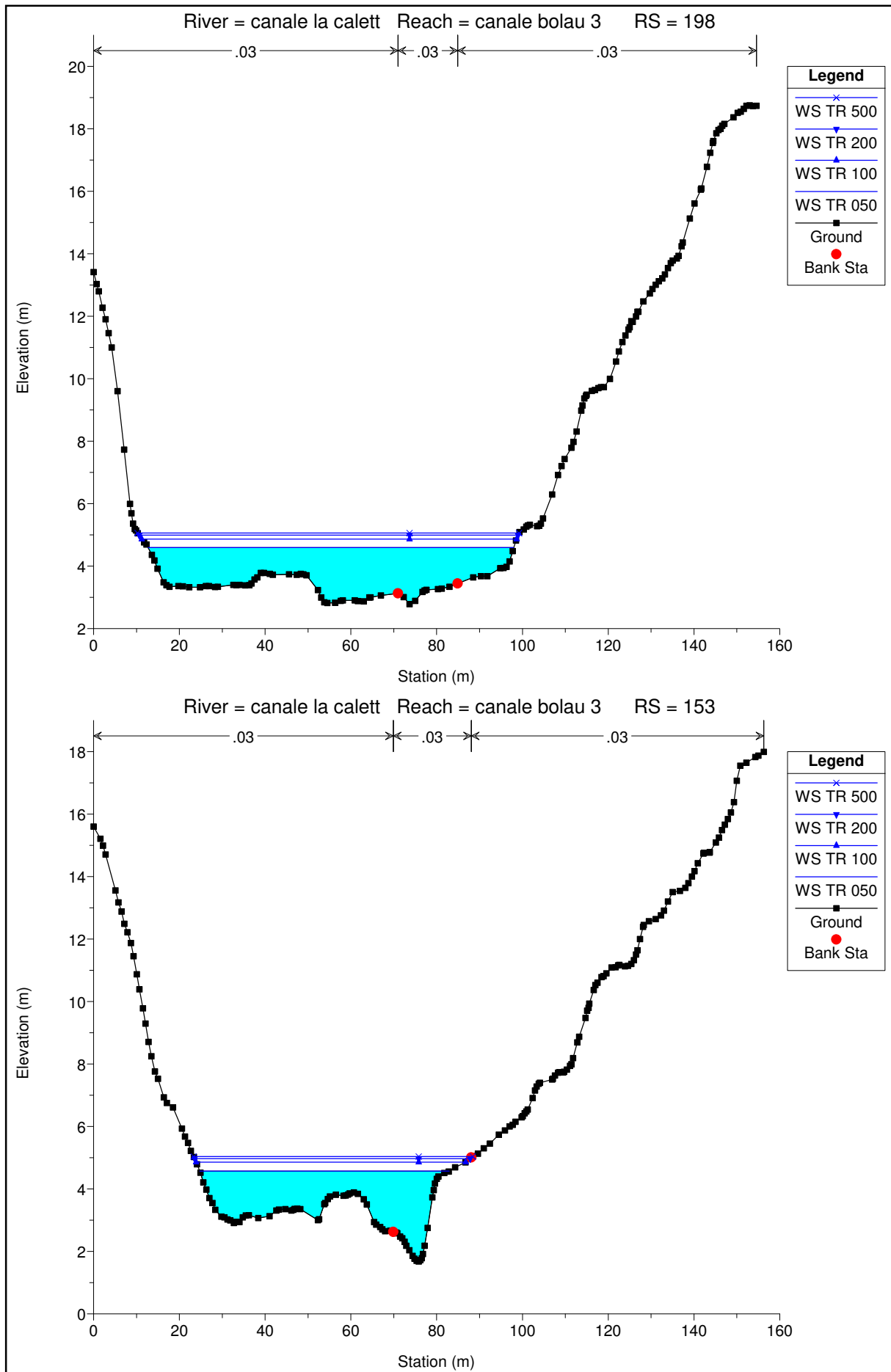


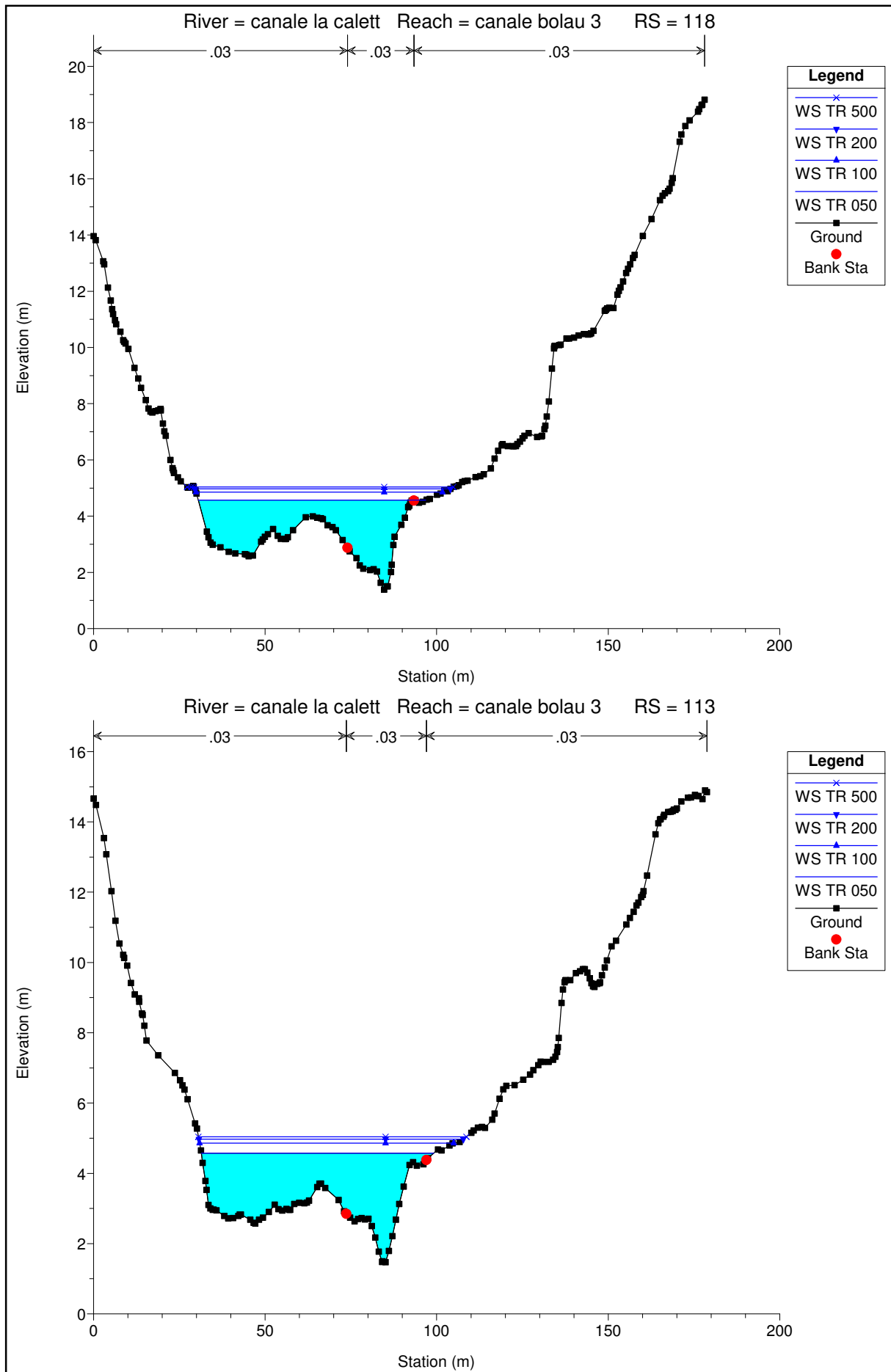


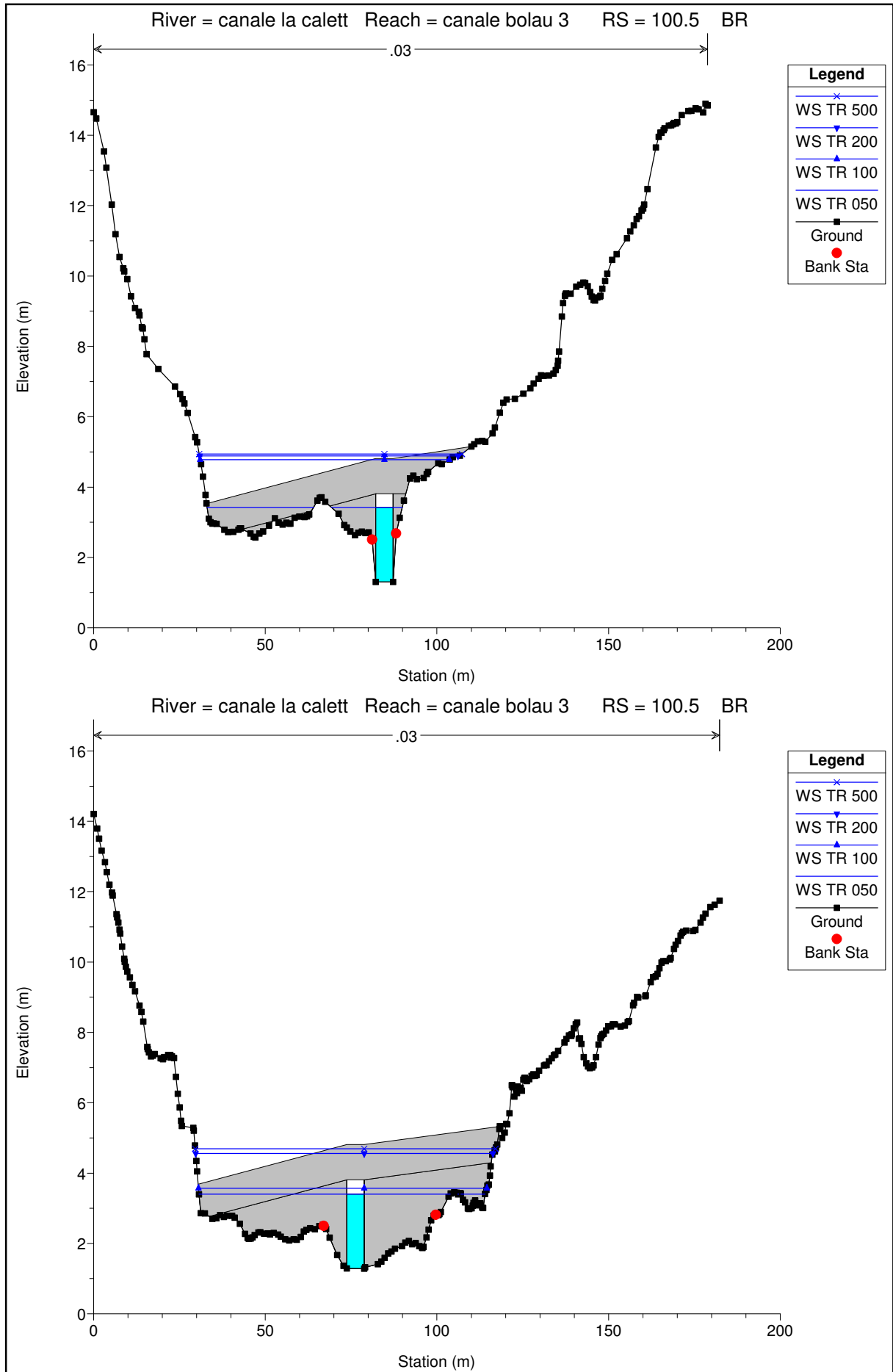


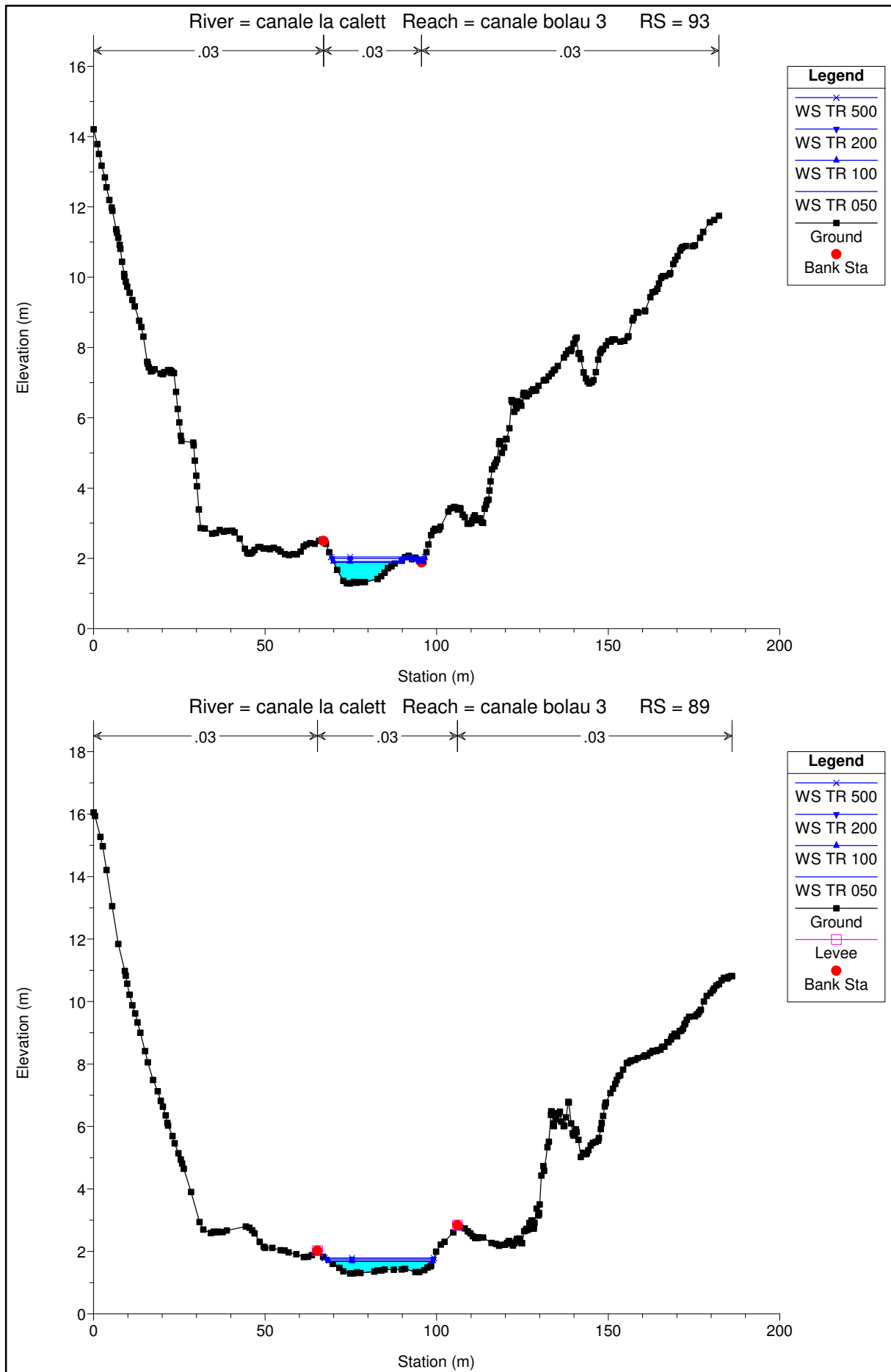


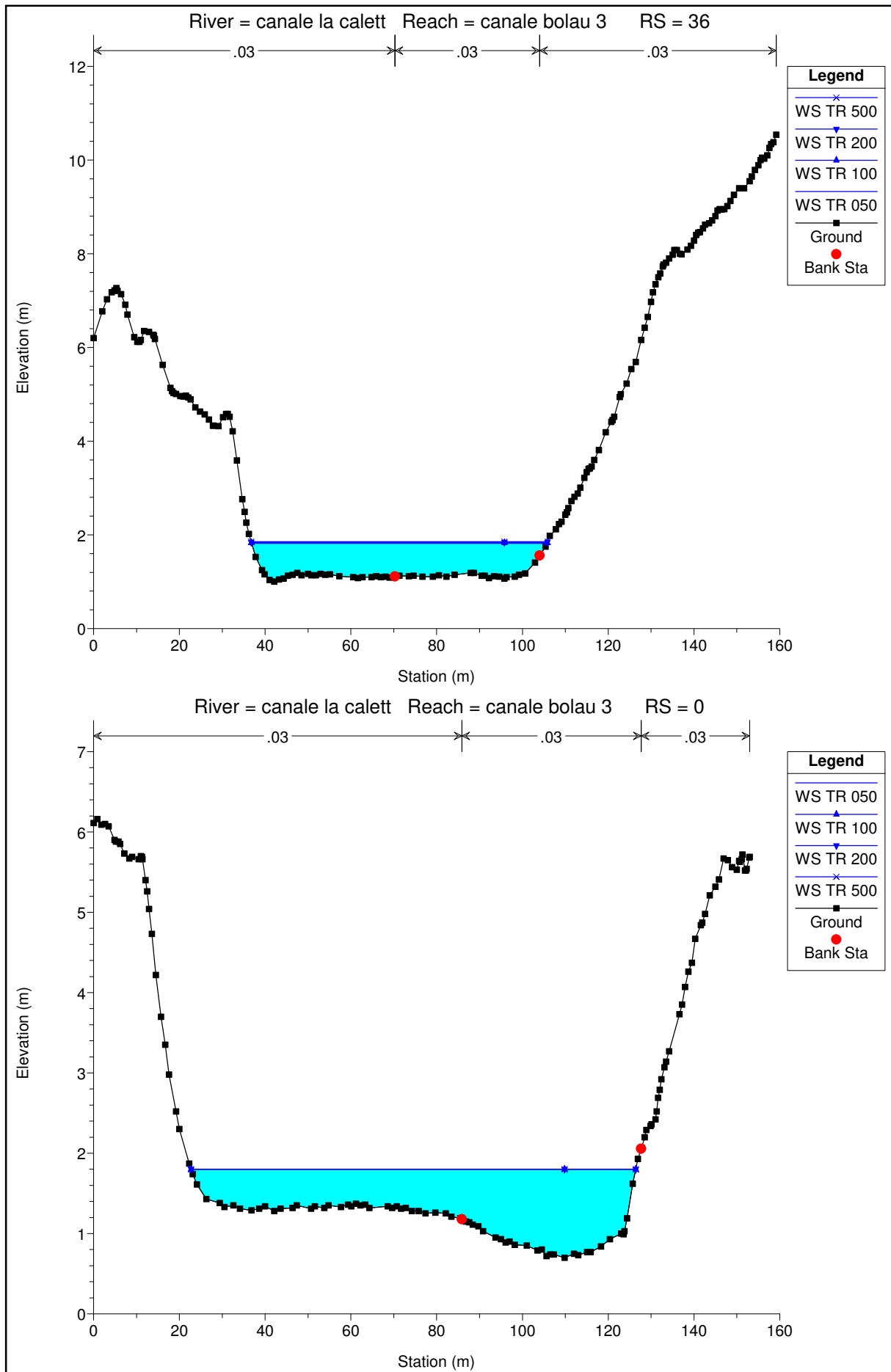












PARTE 2

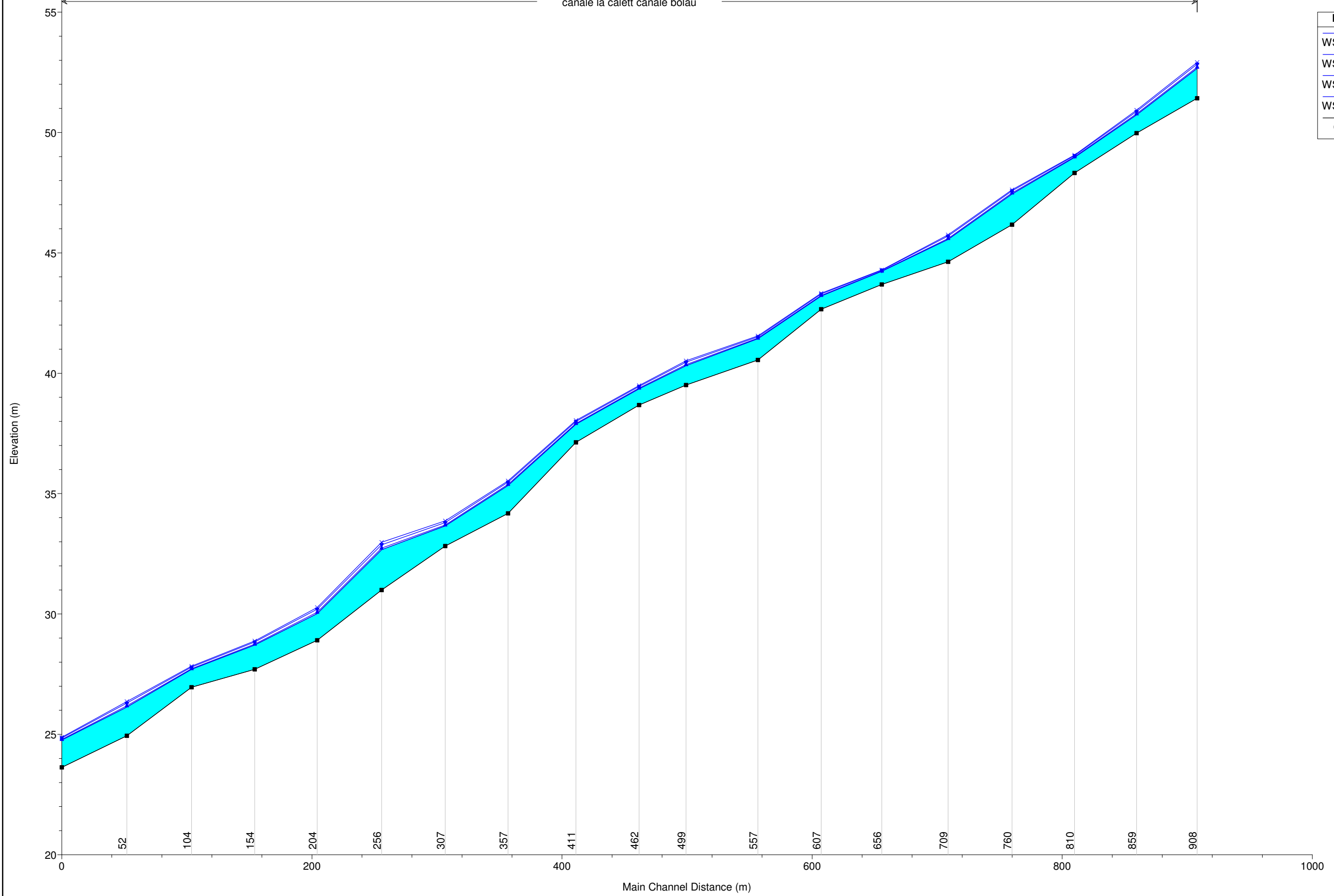
Risultati della modellazione idraulica

CANALE DE LA CALETTA

Profili

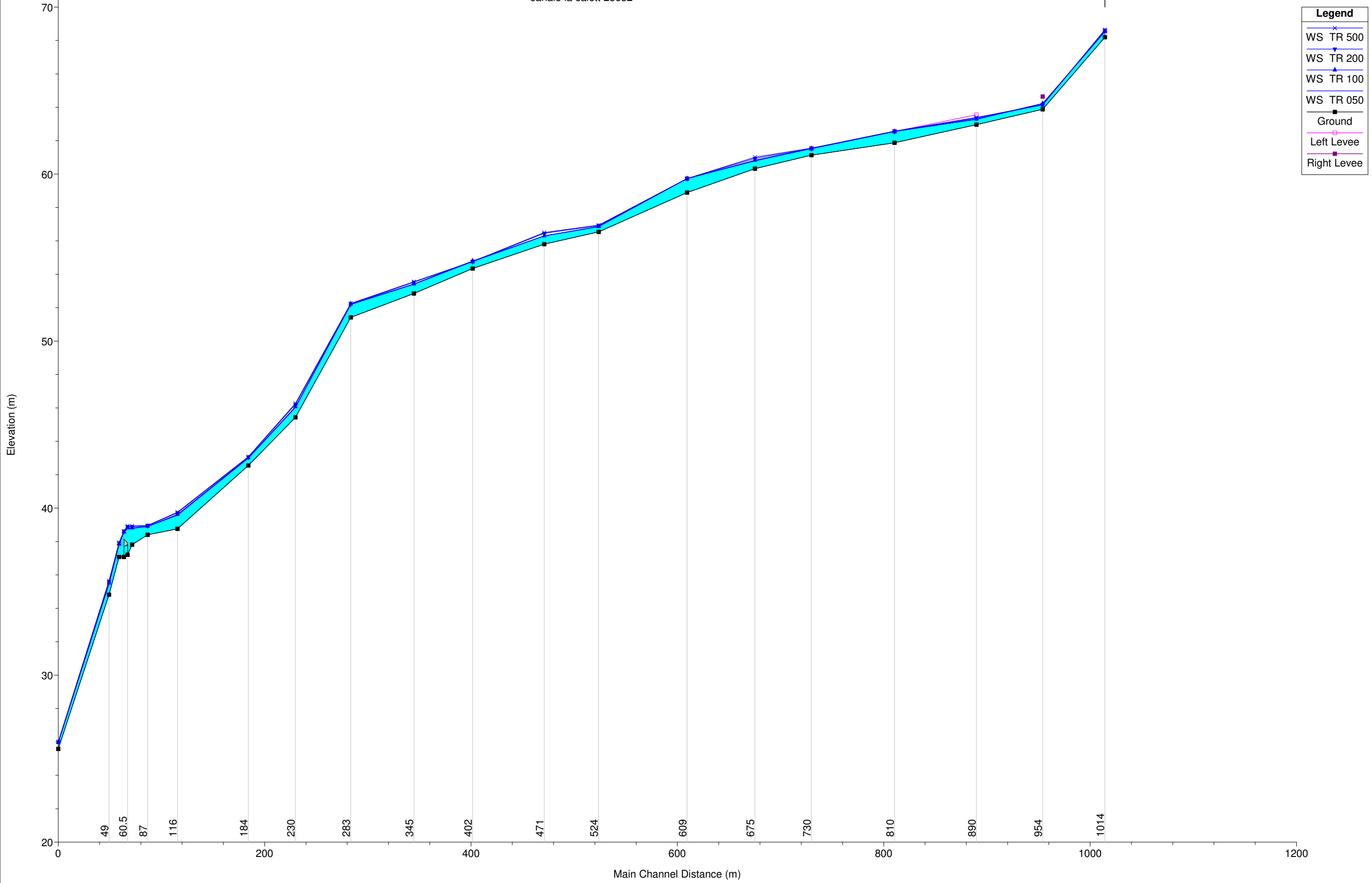
canale la calett canale bolau

Legend	
WS TR 500	✕
WS TR 200	▼
WS TR 100	▲
WS TR 050	—
Ground	■



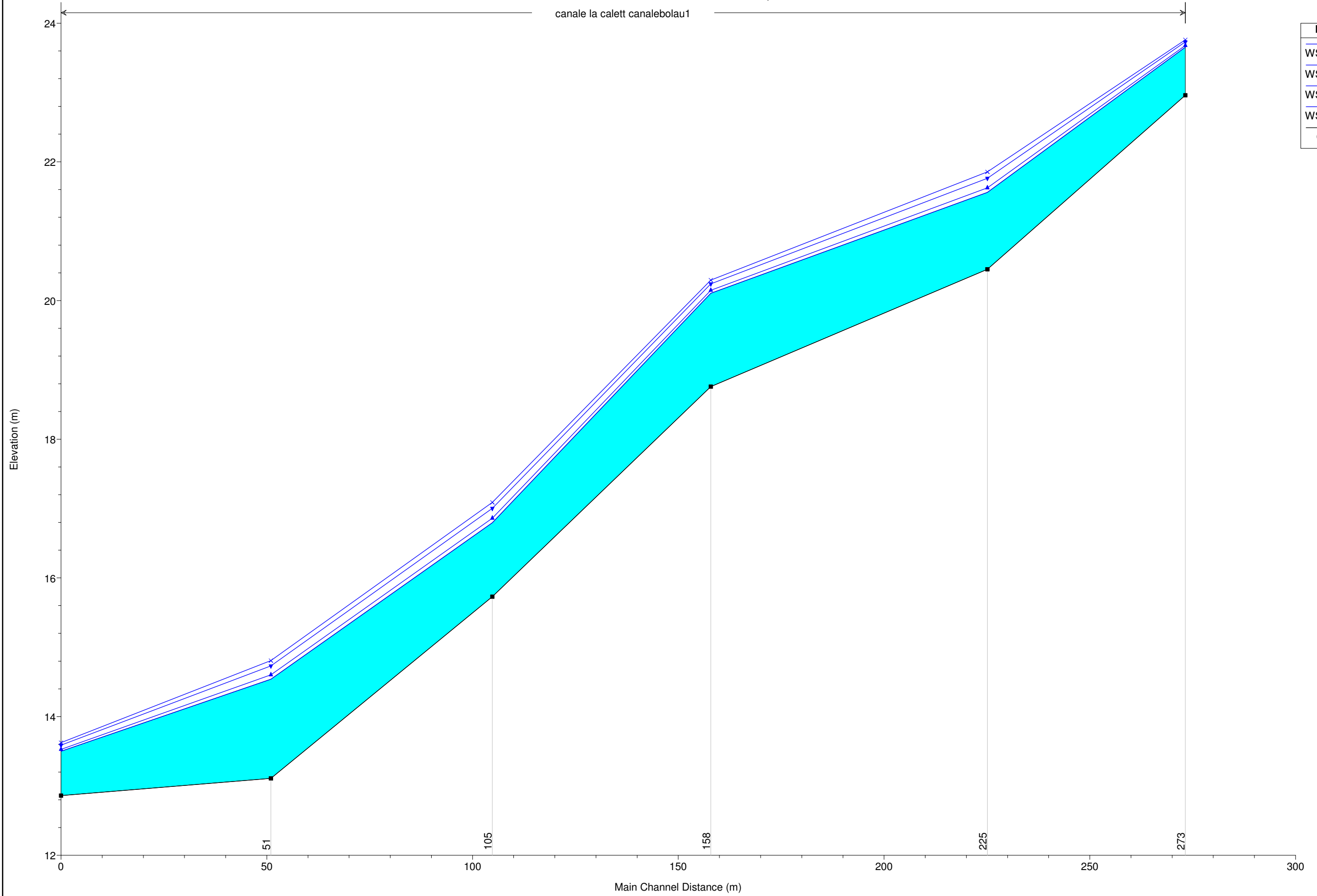
CANALE LA CALETTA Plan: CLC_sim 2 x ponti 28/03/2019

canale la calett 28632



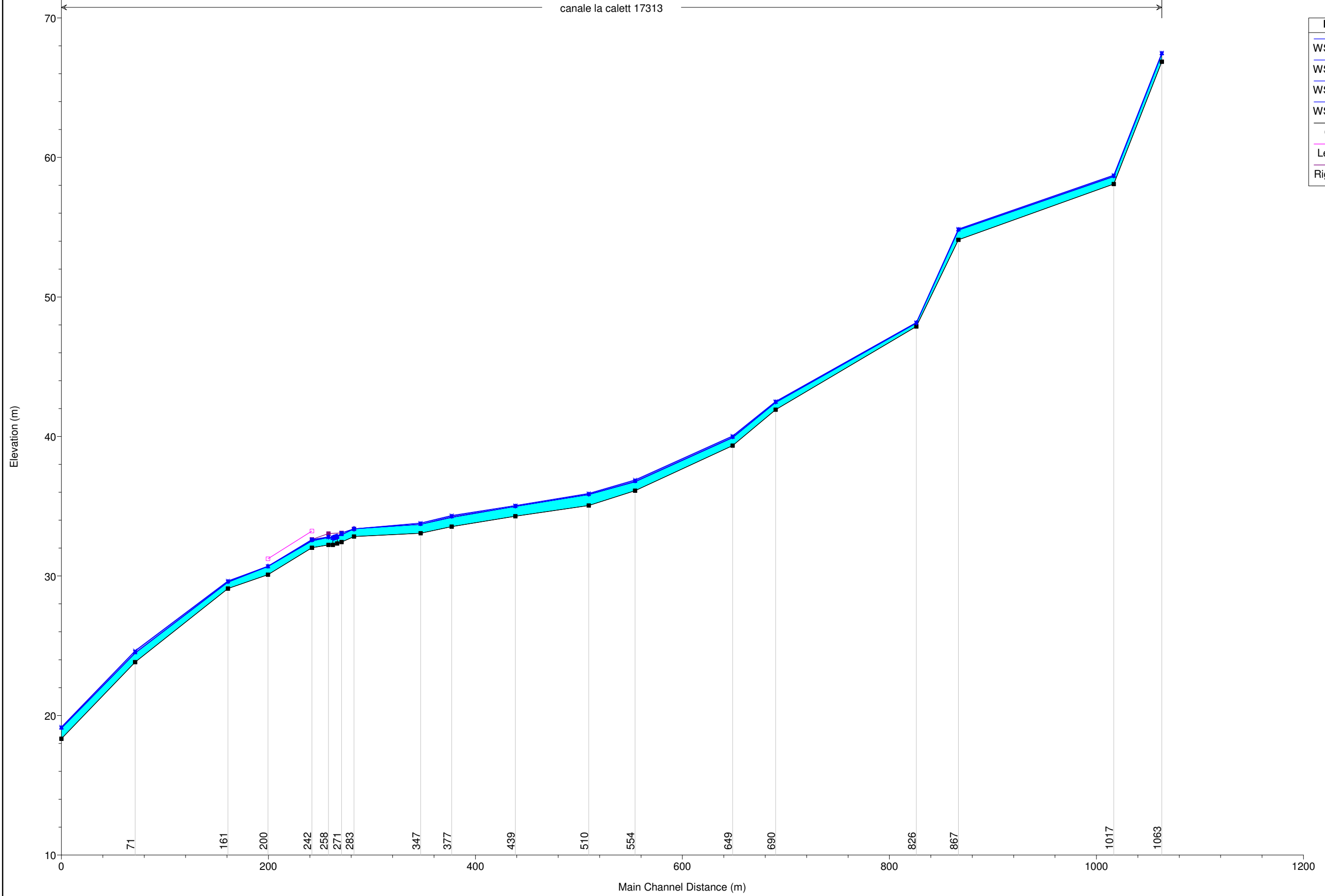
canale la calett canalebolau1

Legend	
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WS TR 200	▼
WS TR 100	▲
WS TR 050	—
Ground	■



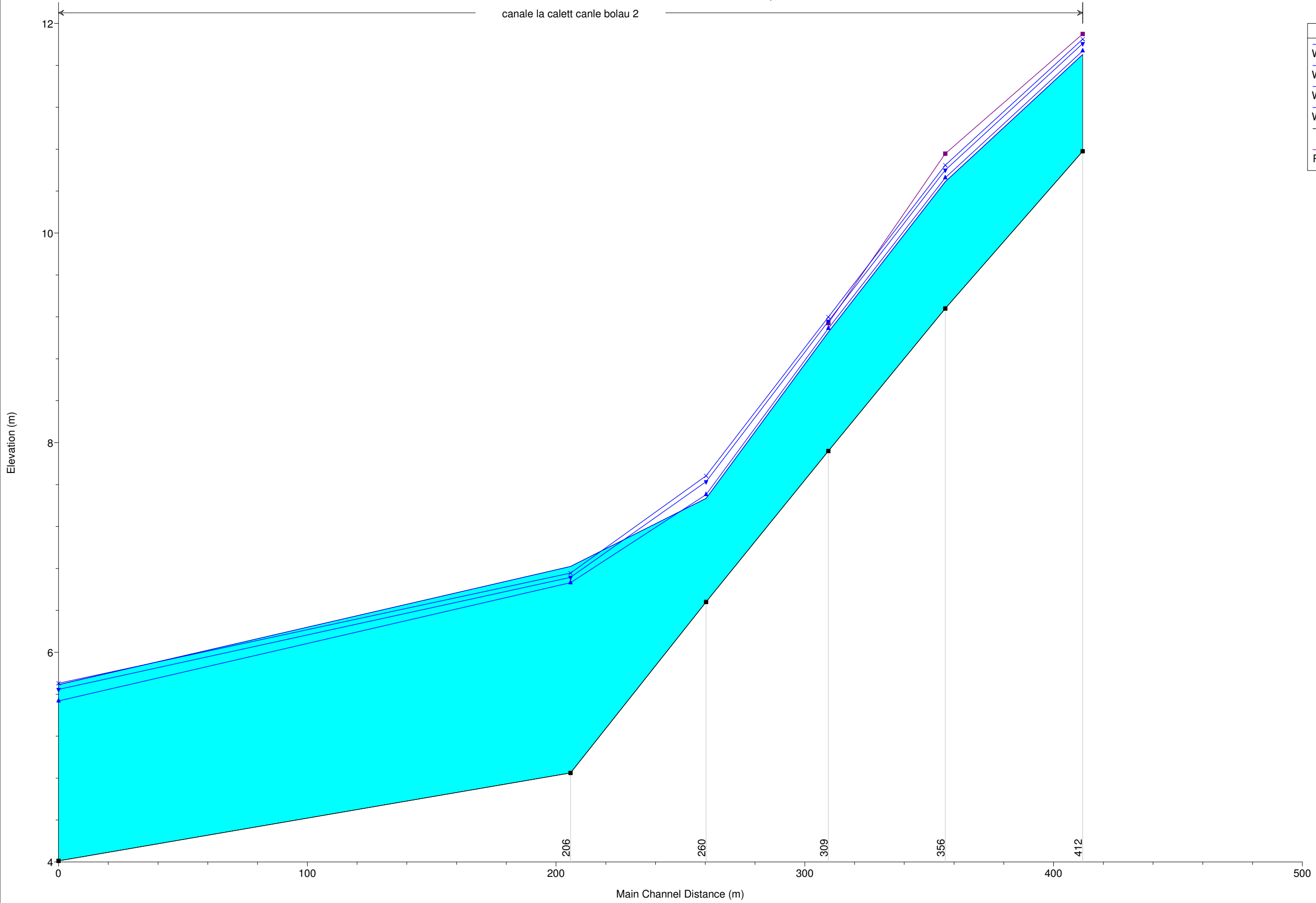
canale la calett 17313

Legend	
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WS TR 200	▼
WS TR 100	▲
WS TR 050	◆
Ground	■
Left Levee	□
Right Levee	■

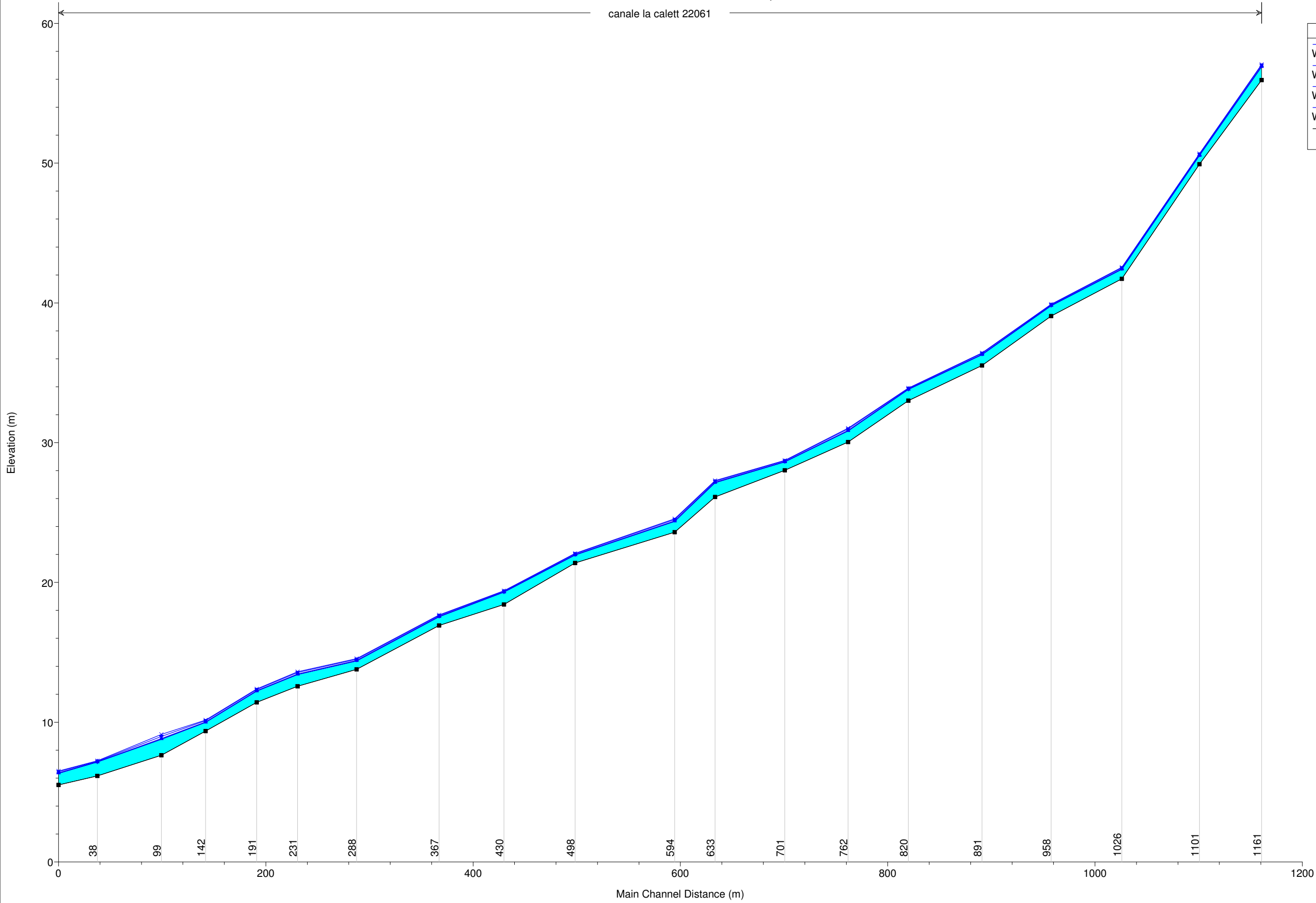


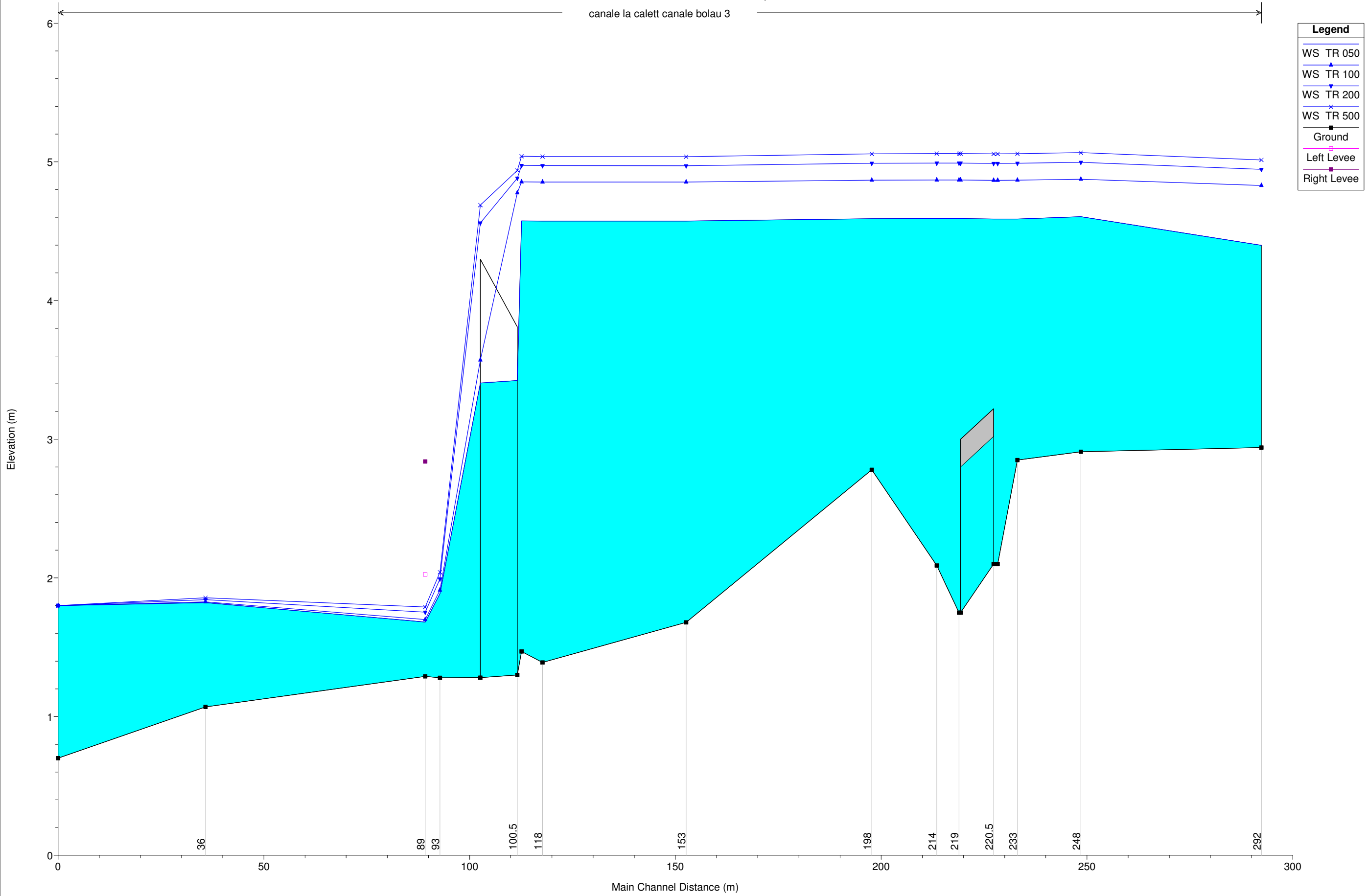
CANALE LA CALETTA Plan: CLC_sim 2 x ponti 28/03/2019
canale la calett canle bolau 2

Legend	
WS TR 500	✕
WS TR 050	—
WS TR 200	▼
WS TR 100	▲
Ground	■
Right Levee	■



Legend	
WS TR 500	✕
WS TR 200	▼
WS TR 100	▲
WS TR 050	◆
Ground	■





PARTE 3

Risultati della modellazione idraulica

CANALE DE LA CALETTA

Tabelle

STUDIO DI COMPATIBILITA' GEOLOGICA, GEOTECNICA E IDRAULICA
Tempo di ritorno 50 anni

River	Reach	SEZIONI HEC RAS	Progr. (m)	Parz. (m)	Q (m3/s)	P.L. (m)	Fondo alveo (m)	y _{max} (m)	H (m)	v (m/s)	A (m2)	b (m)	Fr
CANALE LA CALETTA	28632	1014	1073	60.3	14.99	68.53	68.19	0.34	69.05	3.42	4.89	26.51	2.24
CANALE LA CALETTA	28632	954	1012.7	64.3	14.99	64.22	63.88	0.34	64.55	2.56	5.9	43.23	2.12
CANALE LA CALETTA	28632	890	948.4	79.2	14.99	63.28	62.96	0.32	63.4	1.25	10.1	39.12	0.86
CANALE LA CALETTA	28632	810	869.2	80.6	14.99	62.55	61.88	0.67	62.63	1.33	12.38	39.34	0.67
CANALE LA CALETTA	28632	730	788.6	54.8	14.99	61.53	61.13	0.4	61.57	0.64	18.35	56.64	0.39
CANALE LA CALETTA	28632	675	733.8	65.8	14.99	60.79	60.32	0.47	61.21	2.99	5.48	26.54	1.84
CANALE LA CALETTA	28632	609	668	85.7	14.99	59.73	58.89	0.84	59.75	0.6	22.85	51.61	0.31
CANALE LA CALETTA	28632	524	582.3	52.6	14.99	56.85	56.54	0.31	59.14	6.74	2.27	16.27	5.58
CANALE LA CALETTA	28632	471	529.7	69.4	14.99	56.29	55.81	0.48	56.58	2.47	6.4	20.41	1.34
CANALE LA CALETTA	28632	402	460.3	56.9	14.99	54.77	54.35	0.42	54.96	1.92	7.82	33.48	1.27
CANALE LA CALETTA	28632	345	403.4	61.2	14.99	53.41	52.85	0.56	53.64	2.12	7.2	28.23	1.3
CANALE LA CALETTA	28632	283	342.2	53.6	14.99	52.19	51.42	0.77	52.43	2.22	7.07	21.83	1.17
CANALE LA CALETTA	28632	230	288.6	45.7	14.99	46.04	45.43	0.61	49.8	8.59	1.74	4.44	4.38
CANALE LA CALETTA	28632	184	242.9	68.7	14.99	42.99	42.55	0.44	43.72	3.77	3.98	13.22	2.19
CANALE LA CALETTA	28632	116	174.2	28.9	14.99	39.58	38.76	0.82	40.26	3.66	4.1	9.88	1.82
CANALE LA CALETTA	28632	87	145.3	15	14.99	38.9	38.4	0.5	39.18	2.36	6.47	24.47	1.44
CANALE LA CALETTA	28632	72	130.3	12.7	14.99	38.79	37.81	0.98	38.85	1.14	13.79	28.55	0.5
CANALE LA CALETTA	28632	60.5	Culvert										
CANALE LA CALETTA	28632	59	117.6	9.7	14.99	37.82	37.07	0.75	38	1.91	8.21	23.87	0.97
CANALE LA CALETTA	28632	49	107.9	49.2	14.99	35.48	34.82	0.66	37.54	6.36	2.36	6.82	3.45
CANALE LA CALETTA	28632	0	58.7	58.7	14.99	25.95	25.58	0.37	28.12	6.52	2.3	9.09	4.14
CANALE LA CALETTA	17313	1063	1471	46.5	11.04	67.41	66.86	0.55	69.12	5.8	1.9	7.41	3.65
CANALE LA CALETTA	17313	1017	1424.5	150	11.04	58.63	58.09	0.54	60.49	6.04	1.83	6.47	3.63
CANALE LA CALETTA	17313	867	1274.5	40.7	11.04	54.78	54.1	0.68	54.96	1.9	6.27	22.32	1.03
CANALE LA CALETTA	17313	826	1233.8	136	11.04	48.12	47.88	0.24	52.67	9.45	1.17	10.43	9.02
CANALE LA CALETTA	17313	690	1097.8	41.5	11.04	42.43	41.92	0.51	42.68	2.24	5.04	17.24	1.24
CANALE LA CALETTA	17313	649	1056.3	94.3	11.04	39.91	39.34	0.57	41.01	4.65	2.38	8.04	2.73
CANALE LA CALETTA	17313	554	962	44.7	11.04	36.74	36.11	0.63	37.11	2.68	4.13	9.75	1.31
CANALE LA CALETTA	17313	510	917.3	71	11.04	35.83	35.05	0.78	36.08	2.23	4.94	17.41	1.34
CANALE LA CALETTA	17313	439	846.3	61.4	11.04	34.98	34.28	0.7	35.08	1.4	8.36	35.91	0.84
CANALE LA CALETTA	17313	377	784.9	30.1	11.04	34.19	33.54	0.65	34.37	1.87	5.92	18.5	1.02
CANALE LA CALETTA	17313	347	754.8	64.3	11.04	33.69	33.06	0.63	33.92	2.12	5.41	18.53	1.14
CANALE LA CALETTA	17313	283	690.5	12	11.04	33.38	32.83	0.55	33.38	0.06	96.41	148.1	0.04
CANALE LA CALETTA	17313	271	678.5	12.7	11.04	32.94	32.43	0.51	33.35	2.82	3.92	18.08	1.93
CANALE LA CALETTA	17313	260.5	Culvert										
CANALE LA CALETTA	17313	258	665.8	16	11.04	32.76	32.23	0.53	32.82	1.12	10.63	48.37	0.7
CANALE LA CALETTA	17313	242	649.8	42.5	11.47	32.52	32.03	0.49	32.66	1.71	6.84	27.6	1.08
CANALE LA CALETTA	17313	200	607.3	38.6	11.47	30.68	30.09	0.59	31.25	3.37	3.48	19.33	2.42
CANALE LA CALETTA	17313	161	568.7	89.6	11.47	29.56	29.1	0.46	29.75	1.97	5.96	22.79	1.21
CANALE LA CALETTA	17313	71	479.1	71.3	11.47	24.46	23.83	0.63	26.16	5.76	1.99	4.95	2.9
CANALE LA CALETTA	17313	0	407.8	46.7	11.47	19.08	18.34	0.74	20.03	4.33	2.65	7.2	2.28
CANALE LA CALETTA	canale bolau	908	950	48.4	19.23	52.66	51.42	1.24	53.59	4.28	4.49	6.5	1.64
CANALE LA CALETTA	canale bolau	859	901.6	49.6	19.23	50.73	49.97	0.76	51.81	4.6	4.18	7.79	2.01
CANALE LA CALETTA	canale bolau	810	852	50.1	19.23	48.96	48.32	0.64	49.58	3.56	5.69	17.79	1.79
CANALE LA CALETTA	canale bolau	760	801.9	51	19.23	47.44	46.17	1.27	48.05	3.46	5.69	14.21	1.48
CANALE LA CALETTA	canale bolau	709	750.9	53.1	19.23	45.56	44.63	0.93	46.44	4.17	4.61	9.11	1.87
CANALE LA CALETTA	canale bolau	656	697.8	48.4	19.23	44.23	43.69	0.54	44.61	2.87	7.05	26.98	1.71
CANALE LA CALETTA	canale bolau	607	649.4	50.7	19.23	43.21	42.66	0.55	43.54	2.63	7.71	23.25	1.36
CANALE LA CALETTA	canale bolau	557	598.7	57.4	19.23	41.43	40.55	0.88	41.98	3.3	5.88	17.86	1.78
CANALE LA CALETTA	canale bolau	499	541.3	37.6	19.23	40.31	39.51	0.8	40.64	2.52	7.62	14.6	1.11
CANALE LA CALETTA	canale bolau	462	503.7	50.4	19.23	39.35	38.68	0.67	39.85	3.22	6.27	16.8	1.6
CANALE LA CALETTA	canale bolau	411	453.3	54.3	19.23	37.88	37.13	0.75	38.42	3.26	5.89	12.44	1.51
CANALE LA CALETTA	canale bolau	357	399	50.3	19.23	35.34	34.18	1.16	36.4	4.56	4.21	8.68	2.09
CANALE LA CALETTA	canale bolau	307	348.7	50.8	19.23	33.66	32.82	0.84	34.45	3.96	4.87	7.97	1.59
CANALE LA CALETTA	canale bolau	256	297.9	51.6	19.23	32.67	31	1.67	33.27	3.44	5.59	7.35	1.26
CANALE LA CALETTA	canale bolau	204	246.3	50	19.23	30.02	28.91	1.11	31.61	5.59	3.44	5.75	2.31
CANALE LA CALETTA	canale bolau	154	196.3	50.4	19.23	28.71	27.7	1.01	29.39	3.66	5.26	9.33	1.56
CANALE LA CALETTA	canale bolau	104	145.9	51.8	19.23	27.7	26.96	0.74	28.1	2.82	6.88	16.1	1.35
CANALE LA CALETTA	canale bolau	52	94.1	52	19.23	26.14	24.94	1.2	26.81	3.65	5.27	9.57	1.57
CANALE LA CALETTA	canale bolau	0	42.1	42.1	19.23	24.76	23.63	1.13	25.29	3.21	6	14.27	1.55
CANALE LA CALETTA	canalebolau1	273	319.9	48.1	29.87	23.66	22.96	0.7	24.21	3.5	9.11	24.94	1.75
CANALE LA CALETTA	canalebolau1	225	271.8	67.2	29.87	21.56	20.45	1.11	22.46	4.2	7.11	10.39	1.62
CANALE LA CALETTA	canalebolau1	158	204.6	53.1	29.87	20.1	18.76	1.34	20.84	3.82	7.98	12.37	1.41
CANALE LA CALETTA	canalebolau1	105	151.5	53.8	29.87	16.8	15.73	1.07	18.88	6.4	4.67	7.23	2.54
CANALE LA CALETTA	canalebolau1	51	97.7	51	29.87	14.54	13.11	1.43	15.95	5.26	5.68	7.07	1.87
CANALE LA CALETTA	canalebolau1	0	46.7	46.7	29.87	13.5	12.86	0.64	14.07	3.34	8.95	18.77	1.54
CANALE LA CALETTA	22061	1161	1277.8	60	15.26	56.89	55.95	0.94	58.73	6	2.54	5.55	2.83
CANALE LA CALETTA	22061	1101	1217.8	74.8	15.26	50.54	49.92	0.62	52.28	5.83	2.62	6.84	3.01
CANALE LA CALETTA	22061	1026	1143	68.2	15.26	42.41	41.73	0.68	44.05	5.67	2.69	6.95	2.91
CANALE LA CALETTA	22061	958	1074.8	66.7	15.26	39.8	39.06	0.74	40.24	2.96	5.16	13.55	1.53

STUDIO DI COMPATIBILITA' GEOLOGICA, GEOTECNICA E IDRAULICA
 Tempo di ritorno 50 anni

River	Reach	SEZIONI HEC RAS	Progr. (m)	Parz. (m)	Q (m3/s)	P.L. (m)	Fondo alveo (m)	y _{max} (m)	H (m)	v (m/s)	A (m2)	b (m)	Fr
CANALE LA CALETTA	22061	891	1008.1	71.1	15.26	36.29	35.52	0.77	37.25	4.34	3.52	10.25	2.36
CANALE LA CALETTA	22061	820	937	58.1	15.26	33.8	33	0.8	34.16	2.64	5.78	16.41	1.42
CANALE LA CALETTA	22061	762	878.9	61.1	15.26	30.83	30.04	0.79	31.95	4.68	3.26	6.91	2.17
CANALE LA CALETTA	22061	701	817.8	67.3	15.26	28.62	28.02	0.6	29.2	3.38	4.51	10.71	1.67
CANALE LA CALETTA	22061	633	750.5	38.9	15.26	27.13	26.11	1.02	27.46	2.53	6.04	14.49	1.25
CANALE LA CALETTA	22061	594	711.6	96.1	15.26	24.36	23.59	0.77	25.94	5.57	2.74	6.38	2.71
CANALE LA CALETTA	22061	498	615.5	68.7	15.26	21.96	21.39	0.57	22.24	2.33	6.56	17.45	1.21
CANALE LA CALETTA	22061	430	546.8	62.5	15.26	19.3	18.42	0.88	19.98	3.65	4.18	15.9	2.28
CANALE LA CALETTA	22061	367	484.3	79.7	15.26	17.54	16.92	0.62	17.86	2.51	6.07	14.31	1.23
CANALE LA CALETTA	22061	288	404.6	56.9	15.26	14.38	13.78	0.6	15.36	4.37	3.5	9.02	2.24
CANALE LA CALETTA	22061	231	347.7	39.4	15.26	13.4	12.57	0.83	13.76	2.64	5.78	9.89	1.1
CANALE LA CALETTA	22061	191	308.3	49.3	15.26	12.22	11.42	0.8	12.9	3.66	4.17	9.75	1.79
CANALE LA CALETTA	22061	142	259	42.7	15.26	9.98	9.36	0.62	10.87	4.18	3.65	7.6	1.93
CANALE LA CALETTA	22061	99	216.3	61.7	15.26	8.77	7.64	1.13	9.5	3.78	4.03	5.8	1.45
CANALE LA CALETTA	22061	38	154.6	37.5	15.26	7.15	6.16	0.99	7.53	2.73	5.59	21.3	1.7
CANALE LA CALETTA	22061	0	117.1	117.1	15.26	6.34	5.51	0.83	6.62	2.38	6.42	14.73	1.15
CANALE LA CALETTA	canle bolau 2	412	640.28	55.2	35.62	11.7	10.78	0.92	12.41	3.73	9.56	24.55	1.91
CANALE LA CALETTA	canle bolau 2	356	585.08	47	35.62	10.49	9.28	1.21	10.87	2.74	13.02	25.98	1.23
CANALE LA CALETTA	canle bolau 2	309	538.08	49.18	35.62	9.05	7.92	1.13	9.72	3.61	9.87	22.35	1.73
CANALE LA CALETTA	canle bolau 2	260	488.9	54.5	35.62	7.47	6.48	0.99	8.12	3.58	9.95	20.2	1.63
CANALE LA CALETTA	canle bolau 2	206	434.4	205.8	35.62	6.82	4.85	1.97	7	1.93	20.14	43.69	0.71
CANALE LA CALETTA	canle bolau 2	0	228.6	228.6	35.62	5.69	4.01	1.68	5.79	1.43	27.09	35.47	0.47
CANALE LA CALETTA	canale bolau 3	292	292.4	43.9	49.04	4.4	2.94	1.46	4.81	2.87	17.73	37.12	1.2
CANALE LA CALETTA	canale bolau 3	248	248.5	15.4	49.04	4.6	2.91	1.69	4.63	0.85	72.75	99.44	0.25
CANALE LA CALETTA	canale bolau 3	233	233.1	4.8	49.04	4.59	2.85	1.74	4.62	0.98	65.02	96.82	0.31
CANALE LA CALETTA	canale bolau 3	228	228.3	1	49.04	4.59	2.1	2.49	4.62	0.86	70.21	93.62	0.26
CANALE LA CALETTA	canale bolau 3	220.5	Bridge										
CANALE LA CALETTA	canale bolau 3	219	218.9	5.4	49.04	4.59	1.75	2.84	4.61	0.64	92.95	93.67	0.17
CANALE LA CALETTA	canale bolau 3	214	213.5	15.8	49.04	4.59	2.09	2.5	4.61	0.6	99.65	93.14	0.15
CANALE LA CALETTA	canale bolau 3	198	197.7	45.1	49.04	4.59	2.78	1.81	4.6	0.53	102.52	85.27	0.14
CANALE LA CALETTA	canale bolau 3	153	152.6	34.9	49.04	4.57	1.68	2.89	4.59	0.7	78.28	58.2	0.17
CANALE LA CALETTA	canale bolau 3	118	117.7	5.1	49.04	4.57	1.39	3.18	4.59	0.61	92.46	66.34	0.14
CANALE LA CALETTA	canale bolau 3	113	112.6	1	49.04	4.57	1.47	3.1	4.59	0.49	102.2	67.73	0.12
CANALE LA CALETTA	canale bolau 3	100.5	Bridge										
CANALE LA CALETTA	canale bolau 3	93	92.8	3.6	49.04	1.89	1.28	0.61	4.03	6.48	7.57	19.1	3.26
CANALE LA CALETTA	canale bolau 3	89	89.2	53.4	49.04	1.68	1.29	0.39	3.38	5.76	8.51	30.12	3.46
CANALE LA CALETTA	canale bolau 3	36	35.8	35.8	49.04	1.82	1.07	0.75	1.88	1.08	45.44	68.86	0.42
CANALE LA CALETTA	canale bolau 3	0			49.04	1.8	0.7	1.1	1.83	0.88	65.71	103.67	0.3

- Q = Portata
 P.L. = Quota pelo libero
 y_{max}= Battente idrico massimo
 H = Livello energetico
 v = Velocità media della corrente
 A = Sezione bagnata
 b = Larghezza della sezione bagnata
 Fr = Numero di Froude

STUDIO DI COMPATIBILITA' GEOLOGICA, GEOTECNICA E IDRAULICA
Tempo di ritorno 100 anni

River	Reach	SEZIONI HEC RAS	Progr. (m)	Parz. (m)	Q (m3/s)	P.L. (m)	Fondo alveo (m)	y _{max} (m)	H (m)	v (m/s)	A (m2)	b (m)	Fr
CANALE LA CALETTA	28632	1014	1073	60.3	16.74	68.54	68.19	0.35	69.1	3.55	5.26	26.8	2.26
CANALE LA CALETTA	28632	954	1012.7	64.3	16.74	64.23	63.88	0.35	64.57	2.63	6.45	45.38	2.14
CANALE LA CALETTA	28632	890	948.4	79.2	16.74	63.3	62.96	0.34	63.43	1.35	10.64	39.34	0.9
CANALE LA CALETTA	28632	810	869.2	80.6	16.74	62.55	61.88	0.67	62.65	1.48	12.38	39.34	0.75
CANALE LA CALETTA	28632	730	788.6	54.8	16.74	61.53	61.13	0.4	61.58	0.72	18.35	56.64	0.44
CANALE LA CALETTA	28632	675	733.8	65.8	16.74	60.83	60.32	0.51	61.19	2.76	6.58	28.9	1.67
CANALE LA CALETTA	28632	609	668	85.7	16.74	59.73	58.89	0.84	59.76	0.68	22.85	51.61	0.34
CANALE LA CALETTA	28632	524	582.3	52.6	16.74	56.87	56.54	0.33	59.07	6.62	2.58	17.21	5.3
CANALE LA CALETTA	28632	471	529.7	69.4	16.74	56.3	55.81	0.49	56.64	2.69	6.55	20.48	1.44
CANALE LA CALETTA	28632	402	460.3	56.9	16.74	54.8	54.35	0.45	54.99	1.93	8.68	33.7	1.21
CANALE LA CALETTA	28632	345	403.4	61.2	16.74	53.42	52.85	0.57	53.68	2.26	7.54	28.74	1.37
CANALE LA CALETTA	28632	283	342.2	53.6	16.74	52.22	51.42	0.8	52.47	2.26	7.76	22.24	1.14
CANALE LA CALETTA	28632	230	288.6	45.7	16.74	46.08	45.43	0.65	49.97	8.74	1.92	4.58	4.31
CANALE LA CALETTA	28632	184	242.9	68.7	16.74	43.01	42.55	0.46	43.81	3.95	4.24	13.54	2.25
CANALE LA CALETTA	28632	116	174.2	28.9	16.74	39.63	38.76	0.87	40.31	3.65	4.58	10.93	1.8
CANALE LA CALETTA	28632	87	145.3	15	16.74	38.91	38.4	0.51	39.22	2.49	6.86	24.62	1.47
CANALE LA CALETTA	28632	72	130.3	12.7	16.74	38.81	37.81	1	38.89	1.22	14.46	29.23	0.53
CANALE LA CALETTA	28632	60.5	Culvert										
CANALE LA CALETTA	28632	59	117.6	9.7	16.74	37.85	37.07	0.78	38.04	1.97	8.91	24.27	0.97
CANALE LA CALETTA	28632	49	107.9	49.2	16.74	35.52	34.82	0.7	37.58	6.36	2.63	7.22	3.36
CANALE LA CALETTA	28632	0	58.7	58.7	16.74	25.96	25.58	0.38	28.35	6.84	2.45	9.29	4.25
CANALE LA CALETTA	17313	1063	1471	46.5	12.34	67.43	66.86	0.57	69.25	5.98	2.06	7.68	3.68
CANALE LA CALETTA	17313	1017	1424.5	150	12.34	58.65	58.09	0.56	60.61	6.19	1.99	6.84	3.66
CANALE LA CALETTA	17313	867	1274.5	40.7	12.34	54.81	54.1	0.71	54.99	1.97	6.76	22.86	1.04
CANALE LA CALETTA	17313	826	1233.8	136	12.34	48.13	47.88	0.25	52.7	9.47	1.3	11.01	8.79
CANALE LA CALETTA	17313	690	1097.8	41.5	12.34	42.45	41.92	0.53	42.72	2.33	5.43	17.5	1.26
CANALE LA CALETTA	17313	649	1056.3	94.3	12.34	39.94	39.34	0.6	41.07	4.7	2.63	8.51	2.7
CANALE LA CALETTA	17313	554	962	44.7	12.34	36.78	36.11	0.67	37.17	2.77	4.46	10.14	1.33
CANALE LA CALETTA	17313	510	917.3	71	12.34	35.85	35.05	0.8	36.12	2.32	5.31	17.9	1.36
CANALE LA CALETTA	17313	439	846.3	61.4	12.34	34.99	34.28	0.71	35.1	1.53	8.57	36.67	0.92
CANALE LA CALETTA	17313	377	784.9	30.1	12.34	34.25	33.54	0.71	34.41	1.77	7.14	23.66	0.95
CANALE LA CALETTA	17313	347	754.8	64.3	12.34	33.7	33.06	0.64	33.97	2.29	5.61	19.06	1.22
CANALE LA CALETTA	17313	283	690.5	12	12.34	33.38	32.83	0.55	33.38	0.06	96.41	148.1	0.04
CANALE LA CALETTA	17313	271	678.5	12.7	12.34	32.98	32.43	0.55	33.35	2.68	4.6	19.38	1.76
CANALE LA CALETTA	17313	260.5	Culvert										
CANALE LA CALETTA	17313	258	665.8	16	12.34	32.78	32.23	0.55	32.84	1.17	11.41	48.54	0.7
CANALE LA CALETTA	17313	242	649.8	42.5	12.82	32.55	32.03	0.52	32.69	1.63	7.96	30.92	1.01
CANALE LA CALETTA	17313	200	607.3	38.6	12.82	30.69	30.09	0.6	31.35	3.65	3.59	19.55	2.58
CANALE LA CALETTA	17313	161	568.7	89.6	12.82	29.58	29.1	0.48	29.78	2.03	6.47	23.53	1.21
CANALE LA CALETTA	17313	71	479.1	71.3	12.82	24.5	23.83	0.67	26.25	5.86	2.19	5.12	2.86
CANALE LA CALETTA	17313	0	407.8	46.7	12.82	19.1	18.34	0.76	20.14	4.52	2.84	7.4	2.33
CANALE LA CALETTA	canale bolau	908	950	48.4	21.48	52.72	51.42	1.3	53.7	4.4	4.88	6.77	1.66
CANALE LA CALETTA	canale bolau	859	901.6	49.6	21.48	50.77	49.97	0.8	51.93	4.76	4.51	8	2.02
CANALE LA CALETTA	canale bolau	810	852	50.1	21.48	48.99	48.32	0.67	49.67	3.74	6.17	18.57	1.83
CANALE LA CALETTA	canale bolau	760	801.9	51	21.48	47.49	46.17	1.32	48.12	3.55	6.32	14.92	1.47
CANALE LA CALETTA	canale bolau	709	750.9	53.1	21.48	45.6	44.63	0.97	46.54	4.29	5.01	9.47	1.88
CANALE LA CALETTA	canale bolau	656	697.8	48.4	21.48	44.25	43.69	0.56	44.67	3.02	7.48	27.47	1.75
CANALE LA CALETTA	canale bolau	607	649.4	50.7	21.48	43.23	42.66	0.57	43.59	2.72	8.36	23.65	1.36
CANALE LA CALETTA	canale bolau	557	598.7	57.4	21.48	41.46	40.55	0.91	42.05	3.42	6.35	18.32	1.79
CANALE LA CALETTA	canale bolau	499	541.3	37.6	21.48	40.36	39.51	0.85	40.7	2.6	8.28	15.3	1.13
CANALE LA CALETTA	canale bolau	462	503.7	50.4	21.48	39.38	38.68	0.7	39.91	3.33	6.79	17.08	1.59
CANALE LA CALETTA	canale bolau	411	453.3	54.3	21.48	37.91	37.13	0.78	38.5	3.39	6.34	12.65	1.53
CANALE LA CALETTA	canale bolau	357	399	50.3	21.48	35.38	34.18	1.2	36.5	4.68	4.59	8.92	2.08
CANALE LA CALETTA	canale bolau	307	348.7	50.8	21.48	33.7	32.82	0.88	34.57	4.14	5.21	8.13	1.62
CANALE LA CALETTA	canale bolau	256	297.9	51.6	21.48	32.74	31	1.74	33.37	3.53	6.09	7.69	1.27
CANALE LA CALETTA	canale bolau	204	246.3	50	21.48	30.07	28.91	1.16	31.72	5.69	3.78	6.01	2.29
CANALE LA CALETTA	canale bolau	154	196.3	50.4	21.48	28.75	27.7	1.05	29.49	3.81	5.63	9.62	1.59
CANALE LA CALETTA	canale bolau	104	145.9	51.8	21.48	27.73	26.96	0.77	28.17	2.95	7.35	16.28	1.38
CANALE LA CALETTA	canale bolau	52	94.1	52	21.48	26.19	24.94	1.25	26.89	3.7	5.81	10.08	1.56
CANALE LA CALETTA	canale bolau	0	42.1	42.1	21.48	24.79	23.63	1.16	25.37	3.39	6.35	14.5	1.6
CANALE LA CALETTA	canalebolau1	273	319.9	48.1	33.36	23.68	22.96	0.72	24.29	3.67	9.7	25.25	1.79
CANALE LA CALETTA	canalebolau1	225	271.8	67.2	33.36	21.62	20.45	1.17	22.56	4.28	7.79	10.66	1.6
CANALE LA CALETTA	canalebolau1	158	204.6	53.1	33.36	20.15	18.76	1.39	20.96	4.02	8.54	12.92	1.45
CANALE LA CALETTA	canalebolau1	105	151.5	53.8	33.36	16.86	15.73	1.13	19	6.47	5.16	7.53	2.5
CANALE LA CALETTA	canalebolau1	51	97.7	51	33.36	14.6	13.11	1.49	16.11	5.44	6.13	7.38	1.91
CANALE LA CALETTA	canalebolau1	0	46.7	46.7	33.36	13.53	12.86	0.67	14.16	3.52	9.47	18.98	1.59
CANALE LA CALETTA	22061	1161	1277.8	60	17.05	56.93	55.95	0.98	58.86	6.16	2.77	5.81	2.85
CANALE LA CALETTA	22061	1101	1217.8	74.8	17.05	50.57	49.92	0.65	52.43	6.03	2.83	7.02	3.04
CANALE LA CALETTA	22061	1026	1143	68.2	17.05	42.44	41.73	0.71	44.18	5.84	2.92	7.23	2.94
CANALE LA CALETTA	22061	958	1074.8	66.7	17.05	39.82	39.06	0.76	40.31	3.1	5.5	13.68	1.56

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Tempo di ritorno 100 anni

River	Reach	SEZIONI HEC RAS	Progr. (m)	Parz. (m)	Q (m3/s)	P.L. (m)	Fondo alveo (m)	y _{max} (m)	H (m)	v (m/s)	A (m2)	b (m)	Fr
CANALE LA CALETTA	22061	891	1008.1	71.1	17.05	36.32	35.52	0.8	37.31	4.39	3.89	11.01	2.36
CANALE LA CALETTA	22061	820	937	58.1	17.05	33.83	33	0.83	34.22	2.76	6.17	16.52	1.44
CANALE LA CALETTA	22061	762	878.9	61.1	17.05	30.88	30.04	0.84	32.03	4.75	3.59	7.18	2.15
CANALE LA CALETTA	22061	701	817.8	67.3	17.05	28.65	28.02	0.63	29.29	3.55	4.8	10.9	1.71
CANALE LA CALETTA	22061	633	750.5	38.9	17.05	27.17	26.11	1.06	27.51	2.58	6.62	15.34	1.25
CANALE LA CALETTA	22061	594	711.6	96.1	17.05	24.4	23.59	0.81	26.02	5.63	3.03	6.68	2.67
CANALE LA CALETTA	22061	498	615.5	68.7	17.05	21.99	21.39	0.6	22.29	2.44	6.99	17.8	1.24
CANALE LA CALETTA	22061	430	546.8	62.5	17.05	19.33	18.42	0.91	19.99	3.6	4.73	18.32	2.26
CANALE LA CALETTA	22061	367	484.3	79.7	17.05	17.57	16.92	0.65	17.91	2.59	6.57	14.59	1.23
CANALE LA CALETTA	22061	288	404.6	56.9	17.05	14.42	13.78	0.64	15.41	4.39	3.88	10.18	2.27
CANALE LA CALETTA	22061	231	347.7	39.4	17.05	13.46	12.57	0.89	13.83	2.7	6.32	10.21	1.09
CANALE LA CALETTA	22061	191	308.3	49.3	17.05	12.25	11.42	0.83	12.98	3.77	4.52	10.07	1.8
CANALE LA CALETTA	22061	142	259	42.7	17.05	10.02	9.36	0.66	10.97	4.31	3.95	7.75	1.93
CANALE LA CALETTA	22061	99	216.3	61.7	17.05	8.83	7.64	1.19	9.6	3.89	4.38	6.03	1.46
CANALE LA CALETTA	22061	38	154.6	37.5	17.05	7.17	6.16	1.01	7.59	2.88	5.92	21.63	1.76
CANALE LA CALETTA	22061	0	117.1	117.1	17.05	6.38	5.51	0.87	6.68	2.42	7.06	15.12	1.13
CANALE LA CALETTA	canle bolau 2	412	640.28	55.2	39.79	11.74	10.78	0.96	12.48	3.83	10.4	25.26	1.91
CANALE LA CALETTA	canle bolau 2	356	585.08	47	39.79	10.53	9.28	1.25	10.94	2.85	13.97	26.35	1.25
CANALE LA CALETTA	canle bolau 2	309	538.08	49.18	39.79	9.09	7.92	1.17	9.8	3.72	10.69	22.94	1.74
CANALE LA CALETTA	canle bolau 2	260	488.9	54.5	39.79	7.5	6.48	1.02	8.21	3.72	10.69	20.72	1.65
CANALE LA CALETTA	canle bolau 2	206	434.4	205.8	39.79	6.66	4.85	1.81	7.06	2.78	14.52	27.45	1.13
CANALE LA CALETTA	canle bolau 2	0	228.6	228.6	39.79	5.54	4.01	1.53	5.72	1.99	21.7	33.97	0.72
CANALE LA CALETTA	canale bolau 3	292	292.4	43.9	54.78	4.83	2.94	1.89	4.95	1.61	38.28	58.73	0.53
CANALE LA CALETTA	canale bolau 3	248	248.5	15.4	54.78	4.87	2.91	1.96	4.89	0.67	100.78	106.95	0.18
CANALE LA CALETTA	canale bolau 3	233	233.1	4.8	54.78	4.87	2.85	2.02	4.89	0.73	92.28	98.16	0.2
CANALE LA CALETTA	canale bolau 3	228	228.3	1	54.78	4.87	2.1	2.77	4.88	0.67	96.71	96.37	0.18
CANALE LA CALETTA	canale bolau 3	220.5	Bridge										
CANALE LA CALETTA	canale bolau 3	219	218.9	5.4	54.78	4.87	1.75	3.12	4.88	0.54	119.13	94.86	0.13
CANALE LA CALETTA	canale bolau 3	214	213.5	15.8	54.78	4.87	2.09	2.78	4.88	0.52	125.68	94.36	0.12
CANALE LA CALETTA	canale bolau 3	198	197.7	45.1	54.78	4.87	2.78	2.09	4.88	0.48	126.5	87.4	0.12
CANALE LA CALETTA	canale bolau 3	153	152.6	34.9	54.78	4.85	1.68	3.17	4.87	0.57	95.31	62.84	0.15
CANALE LA CALETTA	canale bolau 3	118	117.7	5.1	54.78	4.86	1.39	3.47	4.87	0.56	112.02	71.8	0.12
CANALE LA CALETTA	canale bolau 3	113	112.6	1	54.78	4.86	1.47	3.39	4.87	0.47	122.18	74.03	0.11
CANALE LA CALETTA	canale bolau 3	100.5	Bridge										
CANALE LA CALETTA	canale bolau 3	93	92.8	3.6	54.78	1.91	1.28	0.63	4.25	6.77	8.11	20.54	3.4
CANALE LA CALETTA	canale bolau 3	89	89.2	53.4	54.78	1.7	1.29	0.41	3.57	6.05	9.05	30.39	3.54
CANALE LA CALETTA	canale bolau 3	36	35.8	35.8	54.78	1.83	1.07	0.76	1.9	1.2	45.84	68.91	0.46
CANALE LA CALETTA	canale bolau 3	0			54.78	1.8	0.7	1.1	1.84	0.99	65.71	103.67	0.33

Q = Portata
P.L. = Quota pelo libero
y_{max}= Battente idrico massimo
H = Livello energetico
v = Velocità media della corrente
A = Sezione bagnata
b = Larghezza della sezione bagnata
Fr = Numero di Froude

STUDIO DI COMPATIBILITA' GEOLOGICA, GEOTECNICA E IDRAULICA
 Tempo di ritorno 200 anni

River	Reach	SEZIONI HEC RAS	Progr. (m)	Parz. (m)	Q (m3/s)	P.L. (m)	Fondo alveo (m)	y _{max} (m)	H (m)	v (m/s)	A (m2)	b (m)	Fr
CANALE LA CALETTA	28632	1014	1073	60.3	20.85	68.62	68.19	0.43	68.76	1.79	12.61	43.89	1
CANALE LA CALETTA	28632	954	1012.7	64.3	20.85	64.14	63.88	0.26	66.25	5.4	3.28	25.74	5.31
CANALE LA CALETTA	28632	890	948.4	79.2	20.85	63.35	62.96	0.39	63.49	1.45	12.95	41.14	0.87
CANALE LA CALETTA	28632	810	869.2	80.6	20.85	62.55	61.88	0.67	62.7	1.85	12.38	39.34	0.94
CANALE LA CALETTA	28632	730	788.6	54.8	20.85	61.53	61.13	0.4	61.6	0.89	18.35	56.64	0.55
CANALE LA CALETTA	28632	675	733.8	65.8	20.85	60.94	60.32	0.62	61.18	2.29	9.84	31.8	1.2
CANALE LA CALETTA	28632	609	668	85.7	20.85	59.73	58.89	0.84	59.78	0.84	22.85	51.61	0.43
CANALE LA CALETTA	28632	524	582.3	52.6	20.85	56.92	56.54	0.38	58.88	6.27	3.39	19.36	4.67
CANALE LA CALETTA	28632	471	529.7	69.4	20.85	56.46	55.81	0.65	56.69	2.24	9.88	22.16	1.01
CANALE LA CALETTA	28632	402	460.3	56.9	20.85	54.76	54.35	0.41	55.17	2.84	7.34	33.31	1.93
CANALE LA CALETTA	28632	345	403.4	61.2	20.85	53.53	52.85	0.68	53.73	1.99	10.77	31.66	1.05
CANALE LA CALETTA	28632	283	342.2	53.6	20.85	52.22	51.42	0.8	52.61	2.84	7.69	22.2	1.44
CANALE LA CALETTA	28632	230	288.6	45.7	20.85	46.21	45.43	0.78	49.55	8.1	2.58	5.07	3.63
CANALE LA CALETTA	28632	184	242.9	68.7	20.85	43.05	42.55	0.5	44.03	4.37	4.77	14.16	2.41
CANALE LA CALETTA	28632	116	174.2	28.9	20.85	39.71	38.76	0.95	40.42	3.72	5.61	12.51	1.77
CANALE LA CALETTA	28632	87	145.3	15	20.85	38.95	38.4	0.55	39.33	2.77	7.69	24.93	1.56
CANALE LA CALETTA	28632	72	130.3	12.7	20.85	38.89	37.81	1.08	38.97	1.33	16.89	34.52	0.54
CANALE LA CALETTA	28632	60.5	Culvert										
CANALE LA CALETTA	28632	59	117.6	9.7	20.85	37.91	37.07	0.84	38.12	2.09	10.46	25.04	0.97
CANALE LA CALETTA	28632	49	107.9	49.2	20.85	35.6	34.82	0.78	37.68	6.39	3.26	7.81	3.16
CANALE LA CALETTA	28632	0	58.7	58.7	20.85	26	25.58	0.42	28.91	7.56	2.76	9.68	4.52
CANALE LA CALETTA	17313	1063	1471	46.5	15.37	67.48	66.86	0.62	69.51	6.31	2.43	8.34	3.73
CANALE LA CALETTA	17313	1017	1424.5	150	15.37	58.71	58.09	0.62	60.85	6.48	2.37	7.62	3.71
CANALE LA CALETTA	17313	867	1274.5	40.7	15.37	54.85	54.1	0.75	55.06	2.13	7.83	24.1	1.07
CANALE LA CALETTA	17313	826	1233.8	136	15.37	48.16	47.88	0.28	52.75	9.5	1.62	11.67	8.14
CANALE LA CALETTA	17313	690	1097.8	41.5	15.37	42.49	41.92	0.57	42.82	2.54	6.24	18.03	1.3
CANALE LA CALETTA	17313	649	1056.3	94.3	15.37	40.01	39.34	0.67	41.18	4.79	3.21	9.57	2.64
CANALE LA CALETTA	17313	554	962	44.7	15.37	36.85	36.11	0.74	37.29	2.95	5.21	10.97	1.37
CANALE LA CALETTA	17313	510	917.3	71	15.37	35.89	35.05	0.84	36.21	2.5	6.15	18.92	1.4
CANALE LA CALETTA	17313	439	846.3	61.4	15.37	35.04	34.28	0.76	35.15	1.55	10.63	40.25	0.88
CANALE LA CALETTA	17313	377	784.9	30.1	15.37	34.31	33.54	0.77	34.48	1.84	8.67	27.92	0.98
CANALE LA CALETTA	17313	347	754.8	64.3	15.37	33.77	33.06	0.71	34.03	2.3	7.04	22.51	1.2
CANALE LA CALETTA	17313	283	690.5	12	15.37	33.38	32.83	0.55	33.38	0.08	96.41	148.1	0.05
CANALE LA CALETTA	17313	271	678.5	12.7	15.37	33.08	32.43	0.65	33.35	2.29	6.75	22.81	1.32
CANALE LA CALETTA	17313	260.5	Culvert										
CANALE LA CALETTA	17313	258	665.8	16	15.37	32.82	32.23	0.59	32.89	1.24	13.42	48.97	0.69
CANALE LA CALETTA	17313	242	649.8	42.5	15.96	32.6	32.03	0.57	32.75	1.74	9.33	31.82	1
CANALE LA CALETTA	17313	200	607.3	38.6	15.96	30.72	30.09	0.63	31.49	3.93	4.19	20.71	2.61
CANALE LA CALETTA	17313	161	568.7	89.6	15.96	29.62	29.1	0.52	29.86	2.2	7.52	25.7	1.26
CANALE LA CALETTA	17313	71	479.1	71.3	15.96	24.6	23.83	0.77	26.39	5.92	2.7	5.51	2.7
CANALE LA CALETTA	17313	0	407.8	46.7	15.96	19.15	18.34	0.81	20.43	5.01	3.18	7.64	2.48
CANALE LA CALETTA	canale bolau	908	950	48.4	26.74	52.84	51.42	1.42	53.94	4.65	5.75	7.35	1.68
CANALE LA CALETTA	canale bolau	859	901.6	49.6	26.74	50.87	49.97	0.9	52.17	5.05	5.3	8.43	2.03
CANALE LA CALETTA	canale bolau	810	852	50.1	26.74	49.04	48.32	0.72	49.85	4.13	7.02	19.5	1.93
CANALE LA CALETTA	canale bolau	760	801.9	51	26.74	47.57	46.17	1.4	48.26	3.75	7.68	16.87	1.47
CANALE LA CALETTA	canale bolau	709	750.9	53.1	26.74	45.69	44.63	1.06	46.73	4.5	5.94	10.26	1.89
CANALE LA CALETTA	canale bolau	656	697.8	48.4	26.74	44.28	43.69	0.59	44.81	3.36	8.32	28.42	1.87
CANALE LA CALETTA	canale bolau	607	649.4	50.7	26.74	43.29	42.66	0.63	43.7	2.92	9.74	24.42	1.37
CANALE LA CALETTA	canale bolau	557	598.7	57.4	26.74	41.52	40.55	0.97	42.19	3.65	7.47	19.94	1.8
CANALE LA CALETTA	canale bolau	499	541.3	37.6	26.74	40.46	39.51	0.95	40.83	2.71	9.87	17.22	1.14
CANALE LA CALETTA	canale bolau	462	503.7	50.4	26.74	39.45	38.68	0.77	40.05	3.56	7.94	17.69	1.6
CANALE LA CALETTA	canale bolau	411	453.3	54.3	26.74	37.99	37.13	0.86	38.67	3.64	7.34	13.1	1.55
CANALE LA CALETTA	canale bolau	357	399	50.3	26.74	35.48	34.18	1.3	36.71	4.92	5.43	9.44	2.07
CANALE LA CALETTA	canale bolau	307	348.7	50.8	26.74	33.8	32.82	0.98	34.81	4.47	6.03	8.57	1.66
CANALE LA CALETTA	canale bolau	256	297.9	51.6	26.74	32.87	31	1.87	33.58	3.73	7.17	8.37	1.29
CANALE LA CALETTA	canale bolau	204	246.3	50	26.74	30.2	28.91	1.29	31.96	5.87	4.55	6.58	2.26
CANALE LA CALETTA	canale bolau	154	196.3	50.4	26.74	28.83	27.7	1.13	29.71	4.14	6.45	10.22	1.67
CANALE LA CALETTA	canale bolau	104	145.9	51.8	26.74	27.79	26.96	0.83	28.32	3.22	8.41	16.68	1.42
CANALE LA CALETTA	canale bolau	52	94.1	52	26.74	26.3	24.94	1.36	27.05	3.84	6.96	11.14	1.55
CANALE LA CALETTA	canale bolau	0	42.1	42.1	26.74	24.85	23.63	1.22	25.55	3.72	7.25	15.09	1.66
CANALE LA CALETTA	canalebolau1	273	319.9	48.1	41.54	23.73	22.96	0.77	24.46	4.03	11.02	26.26	1.88
CANALE LA CALETTA	canalebolau1	225	271.8	67.2	41.54	21.76	20.45	1.31	22.78	4.46	9.32	11.13	1.56
CANALE LA CALETTA	canalebolau1	158	204.6	53.1	41.54	20.24	18.76	1.48	21.22	4.43	9.86	15.26	1.53
CANALE LA CALETTA	canalebolau1	105	151.5	53.8	41.54	17	15.73	1.27	19.25	6.63	6.26	8.05	2.4
CANALE LA CALETTA	canalebolau1	51	97.7	51	41.54	14.73	13.11	1.62	16.46	5.82	7.14	8.01	1.97
CANALE LA CALETTA	canalebolau1	0	46.7	46.7	41.54	13.59	12.86	0.73	14.37	3.91	10.63	19.44	1.69
CANALE LA CALETTA	22061	1161	1277.8	60	21.23	57.01	55.95	1.06	59.17	6.5	3.26	6.31	2.89
CANALE LA CALETTA	22061	1101	1217.8	74.8	21.23	50.64	49.92	0.72	52.75	6.43	3.3	7.42	3.08
CANALE LA CALETTA	22061	1026	1143	68.2	21.23	42.5	41.73	0.77	44.47	6.21	3.42	7.76	2.99
CANALE LA CALETTA	22061	958	1074.8	66.7	21.23	39.88	39.06	0.82	40.46	3.4	6.25	13.94	1.62

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 Tempo di ritorno 200 anni

River	Reach	SEZIONI HEC RAS	Progr. (m)	Parz. (m)	Q (m3/s)	P.L. (m)	Fondo alveo (m)	y _{max} (m)	H (m)	v (m/s)	A (m2)	b (m)	Fr
CANALE LA CALETTA	22061	891	1008.1	71.1	21.23	36.39	35.52	0.87	37.42	4.49	4.73	12.66	2.34
CANALE LA CALETTA	22061	820	937	58.1	21.23	33.88	33	0.88	34.34	3.01	7.04	16.77	1.48
CANALE LA CALETTA	22061	762	878.9	61.1	21.23	30.98	30.04	0.94	32.2	4.9	4.33	7.79	2.1
CANALE LA CALETTA	22061	701	817.8	67.3	21.23	28.7	28.02	0.68	29.48	3.89	5.46	11.31	1.79
CANALE LA CALETTA	22061	633	750.5	38.9	21.23	27.25	26.11	1.14	27.62	2.72	7.81	16.74	1.27
CANALE LA CALETTA	22061	594	711.6	96.1	21.23	24.5	23.59	0.91	26.14	5.66	3.75	8.08	2.65
CANALE LA CALETTA	22061	498	615.5	68.7	21.23	22.05	21.39	0.66	22.4	2.63	8.08	18.63	1.27
CANALE LA CALETTA	22061	430	546.8	62.5	21.23	19.38	18.42	0.96	20.12	3.81	5.57	18.8	2.24
CANALE LA CALETTA	22061	367	484.3	79.7	21.23	17.64	16.92	0.72	18.04	2.82	7.54	15.11	1.27
CANALE LA CALETTA	22061	288	404.6	56.9	21.23	14.5	13.78	0.72	15.55	4.54	4.68	11.19	2.24
CANALE LA CALETTA	22061	231	347.7	39.4	21.23	13.56	12.57	0.99	13.98	2.89	7.36	10.8	1.12
CANALE LA CALETTA	22061	191	308.3	49.3	21.23	12.33	11.42	0.91	13.13	3.96	5.36	10.69	1.79
CANALE LA CALETTA	22061	142	259	42.7	21.23	10.1	9.36	0.74	11.19	4.61	4.61	8.05	1.94
CANALE LA CALETTA	22061	99	216.3	61.7	21.23	8.98	7.64	1.34	9.78	3.97	5.35	7.29	1.48
CANALE LA CALETTA	22061	38	154.6	37.5	21.23	7.21	6.16	1.05	7.71	3.14	6.77	22.88	1.84
CANALE LA CALETTA	22061	0	117.1	117.1	21.23	6.46	5.51	0.95	6.79	2.54	8.36	15.85	1.12
CANALE LA CALETTA	canle bolau 2	412	640.28	55.2	49.53	11.81	10.78	1.03	12.65	4.05	12.22	26.64	1.91
CANALE LA CALETTA	canle bolau 2	356	585.08	47	49.53	10.6	9.28	1.32	11.09	3.1	15.96	27.15	1.29
CANALE LA CALETTA	canle bolau 2	309	538.08	49.18	49.53	9.16	7.92	1.24	9.86	3.7	13.39	33.38	1.86
CANALE LA CALETTA	canle bolau 2	260	488.9	54.5	49.53	7.63	6.48	1.15	8.34	3.73	13.35	22.49	1.51
CANALE LA CALETTA	canle bolau 2	206	434.4	205.8	49.53	6.72	4.85	1.87	7.22	3.18	16.12	33.33	1.24
CANALE LA CALETTA	canle bolau 2	0	228.6	228.6	49.53	5.65	4.01	1.64	5.85	2.11	25.47	35	0.72
CANALE LA CALETTA	canale bolau 3	292	292.4	43.9	68.19	4.95	2.94	2.01	5.08	1.73	45.66	67.55	0.54
CANALE LA CALETTA	canale bolau 3	248	248.5	15.4	68.19	5	2.91	2.09	5.02	0.76	114.41	114.56	0.2
CANALE LA CALETTA	canale bolau 3	233	233.1	4.8	68.19	4.99	2.85	2.14	5.01	0.79	104.26	98.62	0.21
CANALE LA CALETTA	canale bolau 3	228	228.3	1	68.19	4.99	2.1	2.89	5.01	0.74	108.46	96.76	0.19
CANALE LA CALETTA	canale bolau 3	220.5	Bridge										
CANALE LA CALETTA	canale bolau 3	219	218.9	5.4	68.19	4.99	1.75	3.24	5.01	0.61	130.86	97.2	0.14
CANALE LA CALETTA	canale bolau 3	214	213.5	15.8	68.19	4.99	2.09	2.9	5	0.59	137.21	94.88	0.13
CANALE LA CALETTA	canale bolau 3	198	197.7	45.1	68.19	4.99	2.78	2.21	5	0.55	137.17	88.39	0.13
CANALE LA CALETTA	canale bolau 3	153	152.6	34.9	68.19	4.97	1.68	3.29	4.99	0.64	102.78	64.26	0.16
CANALE LA CALETTA	canale bolau 3	118	117.7	5.1	68.19	4.97	1.39	3.58	4.99	0.65	120.64	74.57	0.14
CANALE LA CALETTA	canale bolau 3	113	112.6	1	68.19	4.97	1.47	3.5	4.99	0.54	131.16	77.13	0.12
CANALE LA CALETTA	canale bolau 3	100.5	Bridge										
CANALE LA CALETTA	canale bolau 3	93	92.8	3.6	68.19	1.99	1.28	0.71	4.45	6.95	9.85	23.63	3.39
CANALE LA CALETTA	canale bolau 3	89	89.2	53.4	68.19	1.75	1.29	0.46	3.82	6.37	10.7	31.21	3.48
CANALE LA CALETTA	canale bolau 3	36	35.8	35.8	68.19	1.84	1.07	0.77	1.95	1.46	46.93	69.03	0.56
CANALE LA CALETTA	canale bolau 3	0			68.19	1.8	0.7	1.1	1.86	1.23	65.71	103.67	0.42

- Q = Portata
- P.L. = Quota pelo libero
- y_{max}= Battente idrico massimo
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STUDIO DI COMPATIBILITA' GEOLOGICA, GEOTECNICA E IDRAULICA
Tempo di ritorno 500 anni

River	Reach	SEZIONI HEC RAS	Progr. (m)	Parz. (m)	Q (m3/s)	P.L. (m)	Fondo alveo (m)	y _{max} (m)	H (m)	v (m/s)	A (m2)	b (m)	Fr
CANALE LA CALETTA	28632	1014	1073	60.3	23.58	68.64	68.19	0.45	68.8	1.86	13.73	44.27	1
CANALE LA CALETTA	28632	954	1012.7	64.3	23.58	64.16	63.88	0.28	66.35	5.53	3.64	28.33	5.27
CANALE LA CALETTA	28632	890	948.4	79.2	23.58	63.39	62.96	0.43	63.53	1.53	14.46	43.86	0.86
CANALE LA CALETTA	28632	810	869.2	80.6	23.58	62.58	61.88	0.7	62.74	1.94	13.31	40.7	0.96
CANALE LA CALETTA	28632	730	788.6	54.8	23.58	61.55	61.13	0.42	61.63	1.05	19.55	58.55	0.62
CANALE LA CALETTA	28632	675	733.8	65.8	23.58	61.01	60.32	0.69	61.21	2.1	12.2	33.8	1
CANALE LA CALETTA	28632	609	668	85.7	23.58	59.73	58.89	0.84	59.79	0.95	22.85	51.61	0.48
CANALE LA CALETTA	28632	524	582.3	52.6	23.58	56.95	56.54	0.41	58.75	6.02	4	19.63	4.16
CANALE LA CALETTA	28632	471	529.7	69.4	23.58	56.5	55.81	0.69	56.75	2.31	10.89	22.87	1
CANALE LA CALETTA	28632	402	460.3	56.9	23.58	54.77	54.35	0.42	55.24	3.03	7.79	33.48	2
CANALE LA CALETTA	28632	345	403.4	61.2	23.58	53.56	52.85	0.71	53.77	2.08	11.71	32.28	1.06
CANALE LA CALETTA	28632	283	342.2	53.6	23.58	52.25	51.42	0.83	52.67	2.95	8.41	22.62	1.44
CANALE LA CALETTA	28632	230	288.6	45.7	23.58	46.27	45.43	0.84	49.71	8.22	2.87	5.28	3.56
CANALE LA CALETTA	28632	184	242.9	68.7	23.58	43.08	42.55	0.53	44.16	4.61	5.11	14.56	2.49
CANALE LA CALETTA	28632	116	174.2	28.9	23.58	39.76	38.76	1	40.51	3.84	6.14	12.87	1.77
CANALE LA CALETTA	28632	87	145.3	15	23.58	38.96	38.4	0.56	39.4	2.96	8.12	25.1	1.63
CANALE LA CALETTA	28632	72	130.3	12.7	23.58	38.93	37.81	1.12	39.02	1.4	18.29	40.19	0.55
CANALE LA CALETTA	28632	60.5	Culvert										
CANALE LA CALETTA	28632	59	117.6	9.7	23.58	37.94	37.07	0.87	38.17	2.19	11.32	25.5	0.99
CANALE LA CALETTA	28632	49	107.9	49.2	23.58	35.65	34.82	0.83	37.74	6.4	3.68	8.07	3.02
CANALE LA CALETTA	28632	0	58.7	58.7	23.58	26.02	25.58	0.44	29.3	8.03	2.94	9.9	4.71
CANALE LA CALETTA	17313	1063	1471	46.5	17.38	67.5	66.86	0.64	69.67	6.52	2.66	8.7	3.76
CANALE LA CALETTA	17313	1017	1424.5	150	17.38	58.74	58.09	0.65	61	6.67	2.61	8.03	3.74
CANALE LA CALETTA	17313	867	1274.5	40.7	17.38	54.88	54.1	0.78	55.11	2.22	8.52	25.03	1.09
CANALE LA CALETTA	17313	826	1233.8	136	17.38	48.17	47.88	0.29	52.79	9.52	1.83	11.82	7.73
CANALE LA CALETTA	17313	690	1097.8	41.5	17.38	42.52	41.92	0.6	42.87	2.66	6.77	18.49	1.32
CANALE LA CALETTA	17313	649	1056.3	94.3	17.38	40.05	39.34	0.71	41.24	4.84	3.59	10.2	2.6
CANALE LA CALETTA	17313	554	962	44.7	17.38	36.89	36.11	0.78	37.37	3.06	5.67	11.46	1.39
CANALE LA CALETTA	17313	510	917.3	71	17.38	35.92	35.05	0.87	36.27	2.61	6.67	19.47	1.42
CANALE LA CALETTA	17313	439	846.3	61.4	17.38	35.06	34.28	0.78	35.19	1.65	11.28	40.56	0.92
CANALE LA CALETTA	17313	377	784.9	30.1	17.38	34.35	33.54	0.81	34.52	1.87	9.68	29.08	0.96
CANALE LA CALETTA	17313	347	754.8	64.3	17.38	33.79	33.06	0.73	34.08	2.43	7.57	23.14	1.24
CANALE LA CALETTA	17313	283	690.5	12	17.38	33.38	32.83	0.55	33.38	0.09	96.41	148.1	0.06
CANALE LA CALETTA	17313	271	678.5	12.7	17.38	33.09	32.43	0.66	33.1	0.19	62.83	115.96	0.11
CANALE LA CALETTA	17313	260.5	Culvert										
CANALE LA CALETTA	17313	258	665.8	16	17.38	32.78	32.23	0.55	32.91	1.62	11.63	48.59	0.96
CANALE LA CALETTA	17313	242	649.8	42.5	18.05	32.63	32.03	0.6	32.69	1.12	16.19	49.25	0.62
CANALE LA CALETTA	17313	200	607.3	38.6	18.05	30.69	30.09	0.6	31.95	5.01	3.68	19.72	3.52
CANALE LA CALETTA	17313	161	568.7	89.6	18.05	29.65	29.1	0.55	29.9	2.27	8.28	27.24	1.26
CANALE LA CALETTA	17313	71	479.1	71.3	18.05	24.65	23.83	0.82	26.5	6.02	3	5.71	2.65
CANALE LA CALETTA	17313	0	407.8	46.7	18.05	19.18	18.34	0.84	20.61	5.3	3.41	7.8	2.56
CANALE LA CALETTA	canale bolau	908	950	48.4	30.23	52.91	51.42	1.49	54.08	4.79	6.31	7.7	1.69
CANALE LA CALETTA	canale bolau	859	901.6	49.6	30.23	50.92	49.97	0.95	52.32	5.23	5.78	8.68	2.05
CANALE LA CALETTA	canale bolau	810	852	50.1	30.23	49.06	48.32	0.74	49.96	4.36	7.57	20.08	1.99
CANALE LA CALETTA	canale bolau	760	801.9	51	30.23	47.62	46.17	1.45	48.35	3.87	8.54	17.98	1.48
CANALE LA CALETTA	canale bolau	709	750.9	53.1	30.23	45.75	44.63	1.12	46.84	4.63	6.53	10.73	1.88
CANALE LA CALETTA	canale bolau	656	697.8	48.4	30.23	44.29	43.69	0.6	44.9	3.59	8.8	28.98	1.96
CANALE LA CALETTA	canale bolau	607	649.4	50.7	30.23	43.33	42.66	0.67	43.76	3.02	10.64	24.83	1.37
CANALE LA CALETTA	canale bolau	557	598.7	57.4	30.23	41.55	40.55	1	42.27	3.78	8.2	20.84	1.8
CANALE LA CALETTA	canale bolau	499	541.3	37.6	30.23	40.52	39.51	1.01	40.9	2.75	10.97	18.82	1.15
CANALE LA CALETTA	canale bolau	462	503.7	50.4	30.23	39.49	38.68	0.81	40.13	3.67	8.73	18.08	1.58
CANALE LA CALETTA	canale bolau	411	453.3	54.3	30.23	38.04	37.13	0.91	38.78	3.8	7.96	13.38	1.57
CANALE LA CALETTA	canale bolau	357	399	50.3	30.23	35.53	34.18	1.35	36.83	5.05	5.98	9.76	2.06
CANALE LA CALETTA	canale bolau	307	348.7	50.8	30.23	33.87	32.82	1.05	34.92	4.56	6.7	9.49	1.69
CANALE LA CALETTA	canale bolau	256	297.9	51.6	30.23	32.98	31	1.98	33.69	3.73	8.1	9.42	1.28
CANALE LA CALETTA	canale bolau	204	246.3	50	30.23	30.27	28.91	1.36	32.1	5.98	5.05	6.87	2.23
CANALE LA CALETTA	canale bolau	154	196.3	50.4	30.23	28.88	27.7	1.18	29.84	4.34	6.96	10.58	1.71
CANALE LA CALETTA	canale bolau	104	145.9	51.8	30.23	27.83	26.96	0.87	28.41	3.37	9.07	16.93	1.44
CANALE LA CALETTA	canale bolau	52	94.1	52	30.23	26.36	24.94	1.42	27.15	3.93	7.69	11.76	1.55
CANALE LA CALETTA	canale bolau	0	42.1	42.1	30.23	24.88	23.63	1.25	25.66	3.92	7.81	15.43	1.69
CANALE LA CALETTA	canalebolau1	273	319.9	48.1	46.96	23.76	22.96	0.8	24.57	4.26	11.85	27.14	1.94
CANALE LA CALETTA	canalebolau1	225	271.8	67.2	46.96	21.86	20.45	1.41	22.91	4.54	10.33	11.41	1.52
CANALE LA CALETTA	canalebolau1	158	204.6	53.1	46.96	20.3	18.76	1.54	21.37	4.66	10.78	17.68	1.57
CANALE LA CALETTA	canalebolau1	105	151.5	53.8	46.96	17.09	15.73	1.36	19.4	6.74	6.97	8.35	2.35
CANALE LA CALETTA	canalebolau1	51	97.7	51	46.96	14.81	13.11	1.7	16.68	6.05	7.76	8.35	2.01
CANALE LA CALETTA	canalebolau1	0	46.7	46.7	46.96	13.62	12.86	0.76	14.5	4.14	11.34	19.71	1.74
CANALE LA CALETTA	22061	1161	1277.8	60	24	57.06	55.95	1.11	59.35	6.71	3.58	6.61	2.91
CANALE LA CALETTA	22061	1101	1217.8	74.8	24	50.68	49.92	0.76	52.94	6.66	3.6	7.66	3.1
CANALE LA CALETTA	22061	1026	1143	68.2	24	42.54	41.73	0.81	44.65	6.43	3.73	8.08	3.02
CANALE LA CALETTA	22061	958	1074.8	66.7	24	39.91	39.06	0.85	40.56	3.57	6.72	14.11	1.65

STUDIO DI COMPATIBILITA' GEOLOGICA, GEOTECNICA E IDRAULICA
Tempo di ritorno 500 anni

River	Reach	SEZIONI HEC RAS	Progr. (m)	Parz. (m)	Q (m ³ /s)	P.L. (m)	Fondo alveo (m)	y _{max} (m)	H (m)	v (m/s)	A (m ²)	b (m)	Fr
CANALE LA CALETTA	22061	891	1008.1	71.1	24	36.43	35.52	0.91	37.52	4.62	5.19	13.01	2.34
CANALE LA CALETTA	22061	820	937	58.1	24	33.91	33	0.91	34.42	3.18	7.54	16.91	1.52
CANALE LA CALETTA	22061	762	878.9	61.1	24	31.04	30.04	1	32.29	4.95	4.84	8.26	2.07
CANALE LA CALETTA	22061	701	817.8	67.3	24	28.74	28.02	0.72	29.6	4.1	5.85	11.51	1.84
CANALE LA CALETTA	22061	633	750.5	38.9	24	27.29	26.11	1.18	27.7	2.83	8.47	17.08	1.29
CANALE LA CALETTA	22061	594	711.6	96.1	24	24.56	23.59	0.97	26.22	5.72	4.2	8.57	2.61
CANALE LA CALETTA	22061	498	615.5	68.7	24	22.08	21.39	0.69	22.47	2.76	8.69	19.08	1.31
CANALE LA CALETTA	22061	430	546.8	62.5	24	19.41	18.42	0.99	20.19	3.91	6.13	19.11	2.21
CANALE LA CALETTA	22061	367	484.3	79.7	24	17.67	16.92	0.75	18.12	2.95	8.13	15.44	1.3
CANALE LA CALETTA	22061	288	404.6	56.9	24	14.54	13.78	0.76	15.63	4.61	5.21	11.69	2.21
CANALE LA CALETTA	22061	231	347.7	39.4	24	13.61	12.57	1.04	14.07	3	8.01	11.18	1.13
CANALE LA CALETTA	22061	191	308.3	49.3	24	12.38	11.42	0.96	13.23	4.09	5.86	10.99	1.79
CANALE LA CALETTA	22061	142	259	42.7	24	10.16	9.36	0.8	11.32	4.77	5.03	8.24	1.95
CANALE LA CALETTA	22061	99	216.3	61.7	24	9.13	7.64	1.49	9.76	3.51	6.85	12.47	1.51
CANALE LA CALETTA	22061	38	154.6	37.5	24	7.24	6.16	1.08	7.75	3.14	7.65	23.32	1.75
CANALE LA CALETTA	22061	0	117.1	117.1	24	6.5	5.51	0.99	6.87	2.67	8.98	16.2	1.15
CANALE LA CALETTA	canle bolau 2	412	640.28	55.2	55.99	11.85	10.78	1.07	12.75	4.2	13.33	27.36	1.92
CANALE LA CALETTA	canle bolau 2	356	585.08	47	55.99	10.65	9.28	1.37	11.19	3.25	17.22	27.65	1.32
CANALE LA CALETTA	canle bolau 2	309	538.08	49.18	55.99	9.2	7.92	1.28	9.93	3.8	14.75	35.48	1.87
CANALE LA CALETTA	canle bolau 2	260	488.9	54.5	55.99	7.68	6.48	1.2	8.44	3.86	14.64	23.52	1.51
CANALE LA CALETTA	canle bolau 2	206	434.4	205.8	55.99	6.76	4.85	1.91	7.32	3.37	17.53	37.19	1.28
CANALE LA CALETTA	canle bolau 2	0	228.6	228.6	55.99	5.71	4.01	1.7	5.93	2.2	27.57	35.62	0.73
CANALE LA CALETTA	canale bolau 3	292	292.4	43.9	77.09	5.01	2.94	2.07	5.15	1.78	50.34	70.88	0.54
CANALE LA CALETTA	canale bolau 3	248	248.5	15.4	77.09	5.07	2.91	2.16	5.09	0.8	122.45	115.88	0.2
CANALE LA CALETTA	canale bolau 3	233	233.1	4.8	77.09	5.06	2.85	2.21	5.08	0.83	111.06	98.88	0.22
CANALE LA CALETTA	canale bolau 3	228	228.3	1	77.09	5.06	2.1	2.96	5.08	0.78	115.13	96.98	0.2
CANALE LA CALETTA	canale bolau 3	220.5	Bridge										
CANALE LA CALETTA	canale bolau 3	219	218.9	5.4	77.09	5.06	1.75	3.31	5.08	0.66	137.58	97.42	0.15
CANALE LA CALETTA	canale bolau 3	214	213.5	15.8	77.09	5.06	2.09	2.97	5.08	0.63	143.77	95.18	0.14
CANALE LA CALETTA	canale bolau 3	198	197.7	45.1	77.09	5.06	2.78	2.28	5.07	0.6	143.27	88.94	0.14
CANALE LA CALETTA	canale bolau 3	153	152.6	34.9	77.09	5.04	1.68	3.36	5.06	0.69	107.04	65.06	0.17
CANALE LA CALETTA	canale bolau 3	118	117.7	5.1	77.09	5.04	1.39	3.65	5.06	0.7	125.64	77	0.15
CANALE LA CALETTA	canale bolau 3	113	112.6	1	77.09	5.04	1.47	3.57	5.06	0.59	136.32	78.13	0.13
CANALE LA CALETTA	canale bolau 3	100.5	Bridge										
CANALE LA CALETTA	canale bolau 3	93	92.8	3.6	77.09	2.04	1.28	0.76	4.53	7	11.08	26.22	3.39
CANALE LA CALETTA	canale bolau 3	89	89.2	53.4	77.09	1.79	1.29	0.5	3.94	6.49	11.87	31.78	3.39
CANALE LA CALETTA	canale bolau 3	36	35.8	35.8	77.09	1.86	1.07	0.79	1.99	1.61	47.85	69.13	0.61
CANALE LA CALETTA	canale bolau 3	0			77.09	1.8	0.7	1.1	1.88	1.39	65.71	103.67	0.47

Q = Portata
P.L. = Quota pelo libero
y_{max}= Battente idrico massimo
H = Livello energetico
v = Velocità media della corrente
A = Sezione bagnata
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Fr = Numero di Froude