

Rio Cantarena (Sestri Ponente)

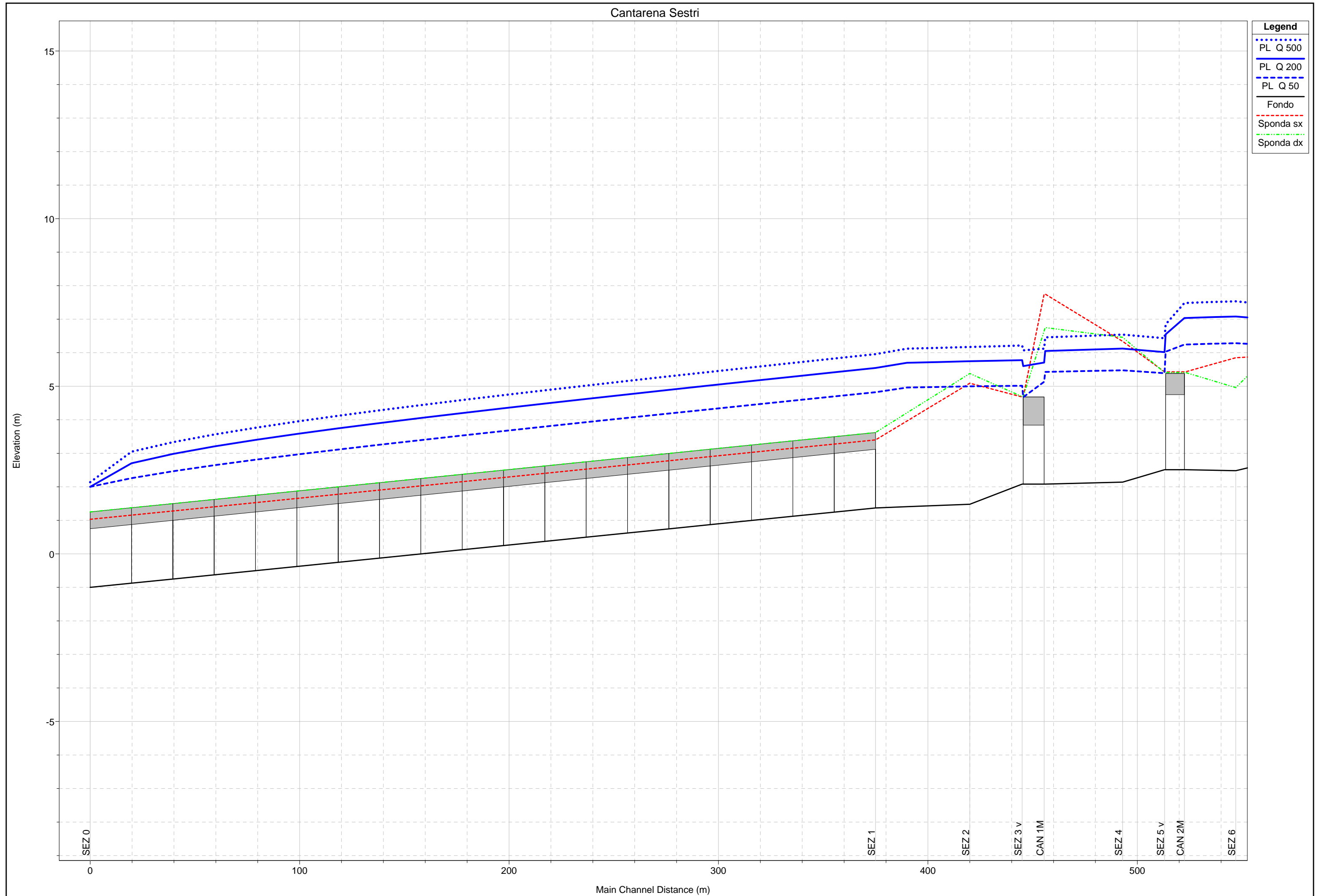
dalla sezione SEZ 19 alla SEZ 0

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati



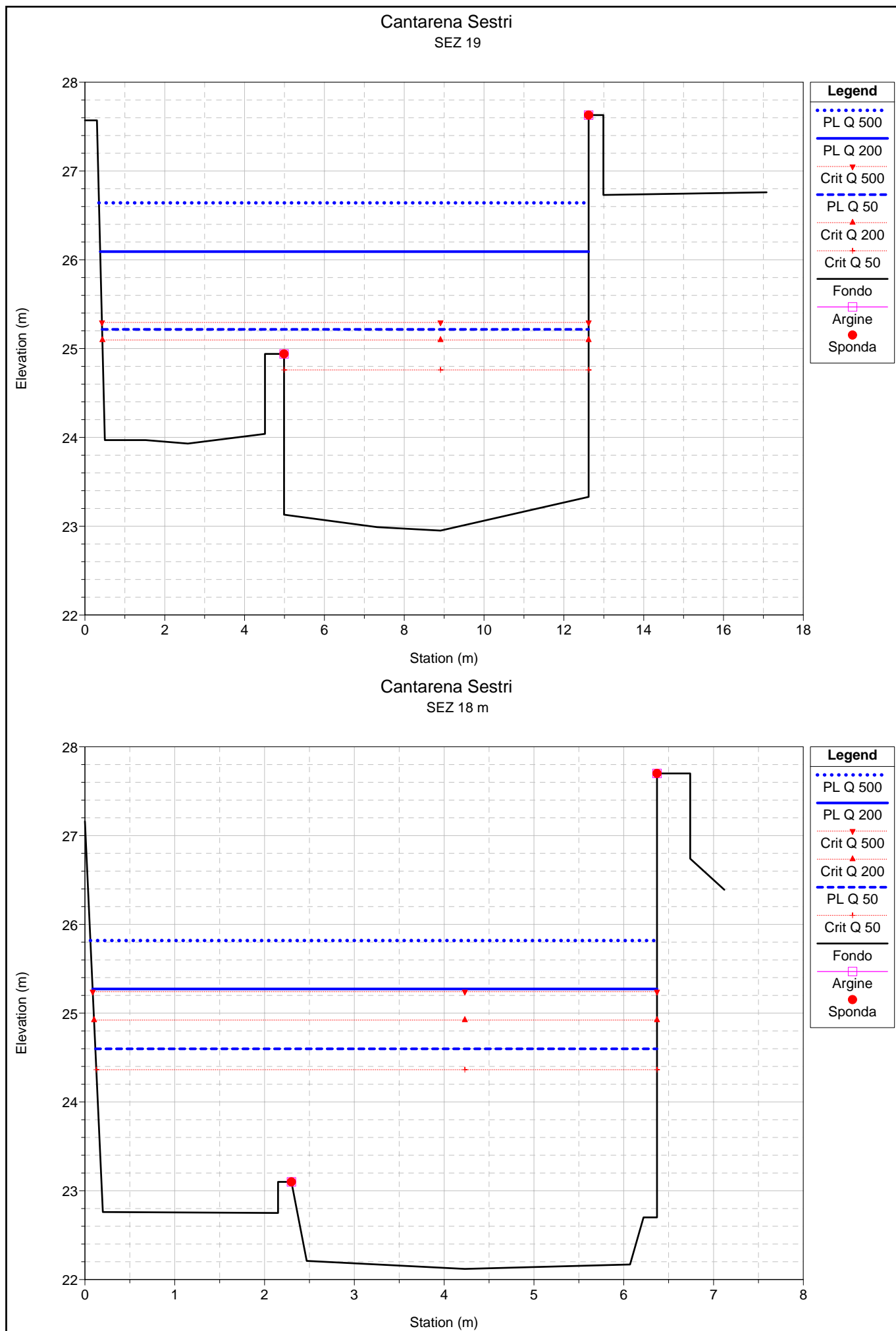
1 cm Horiz. = 16 m 1 cm Vert. = 1 m

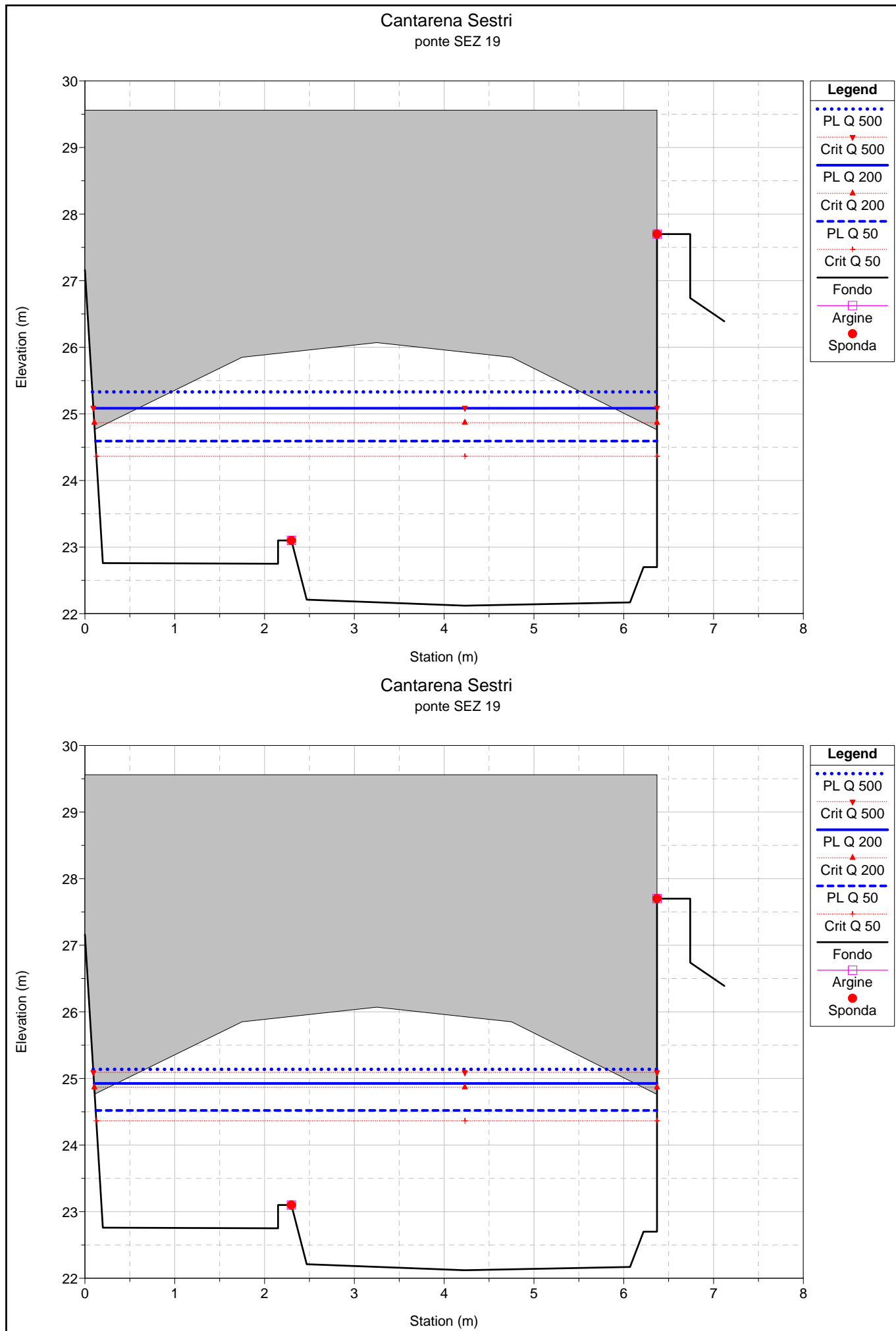
Approvato con D.C.P. n. 28 del 28-03-2007

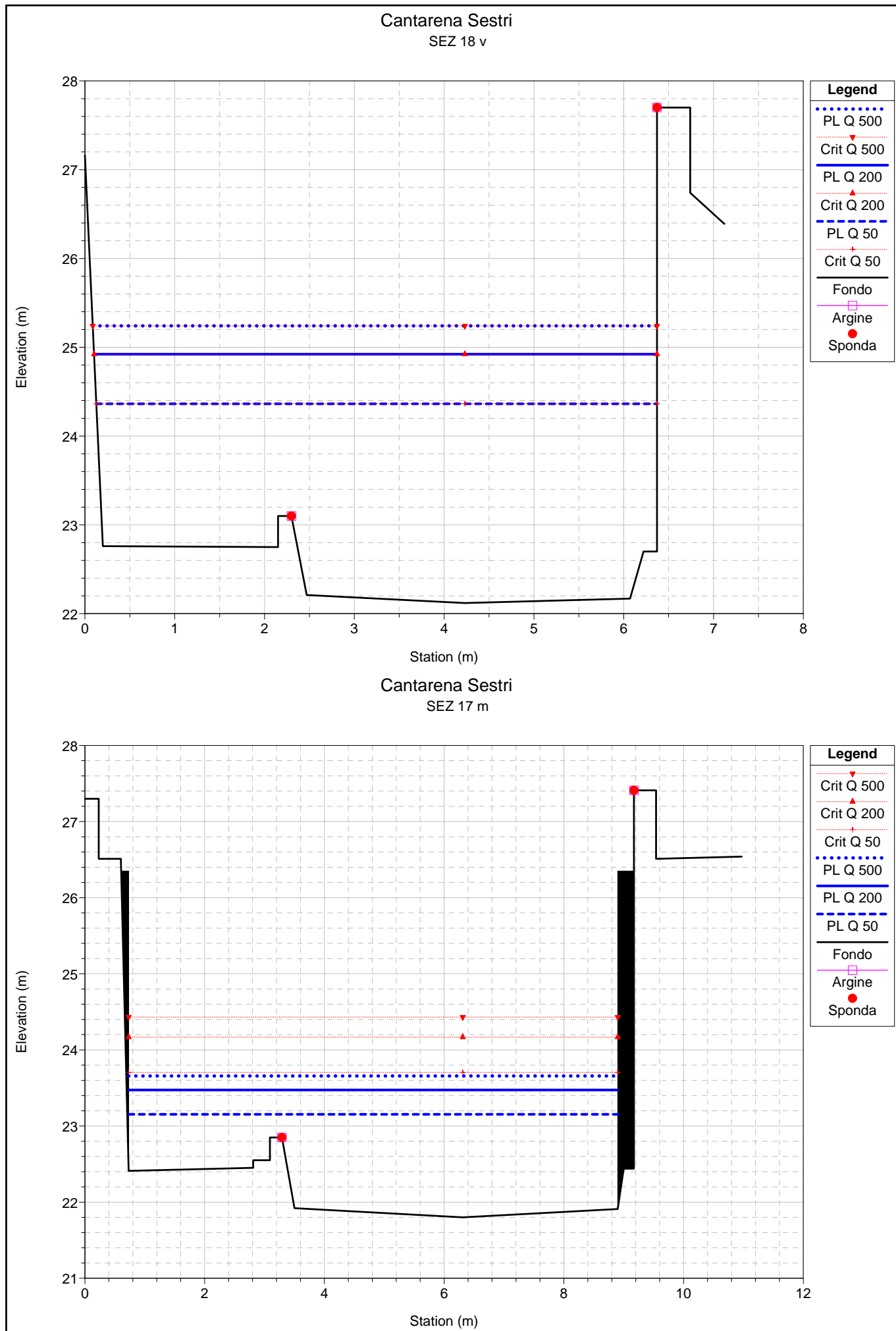


1 cm Horiz. = 16 m 1 cm Vert. = 1 m

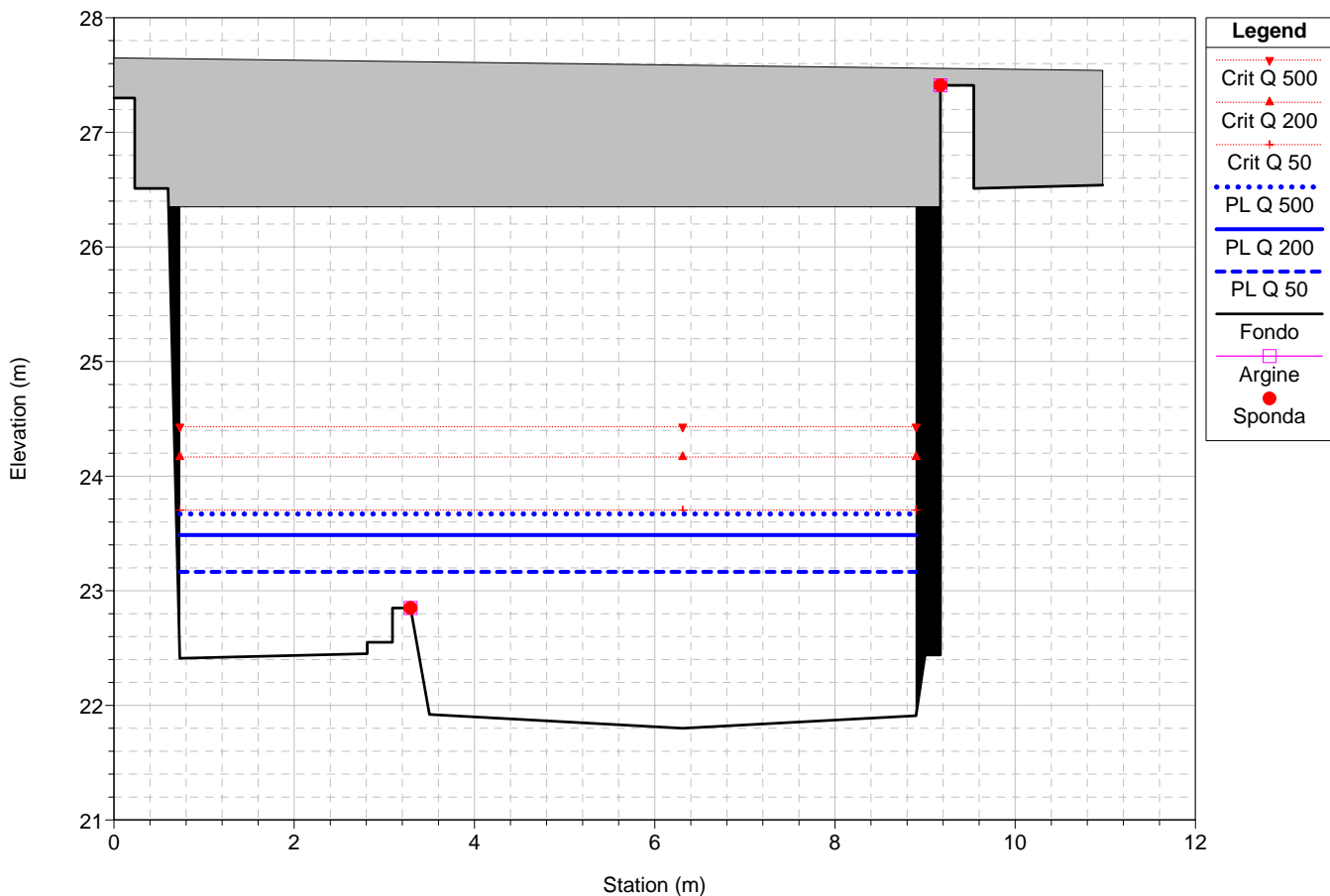
Approvato con D.C.P. n. 28 del 28-03-2007



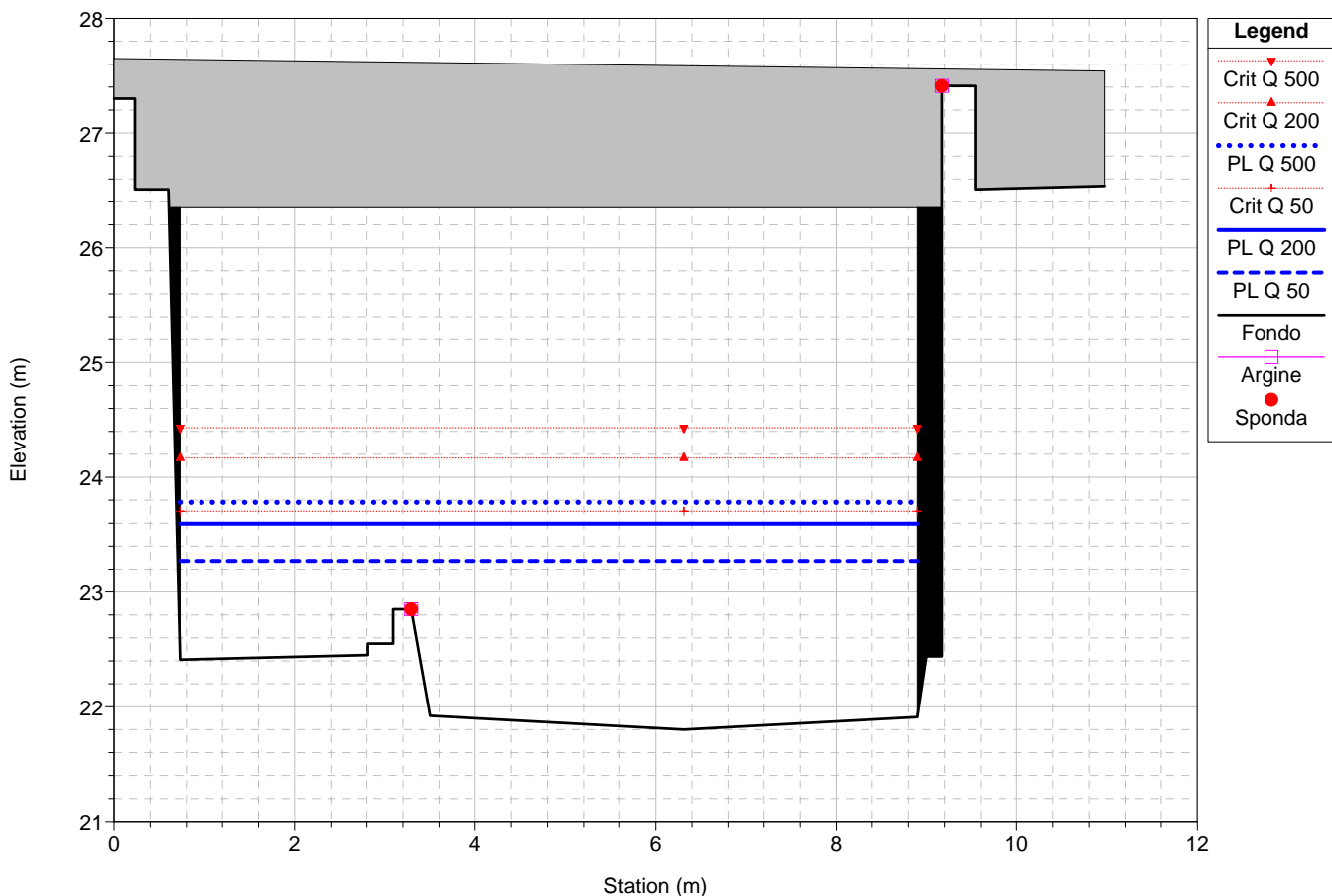


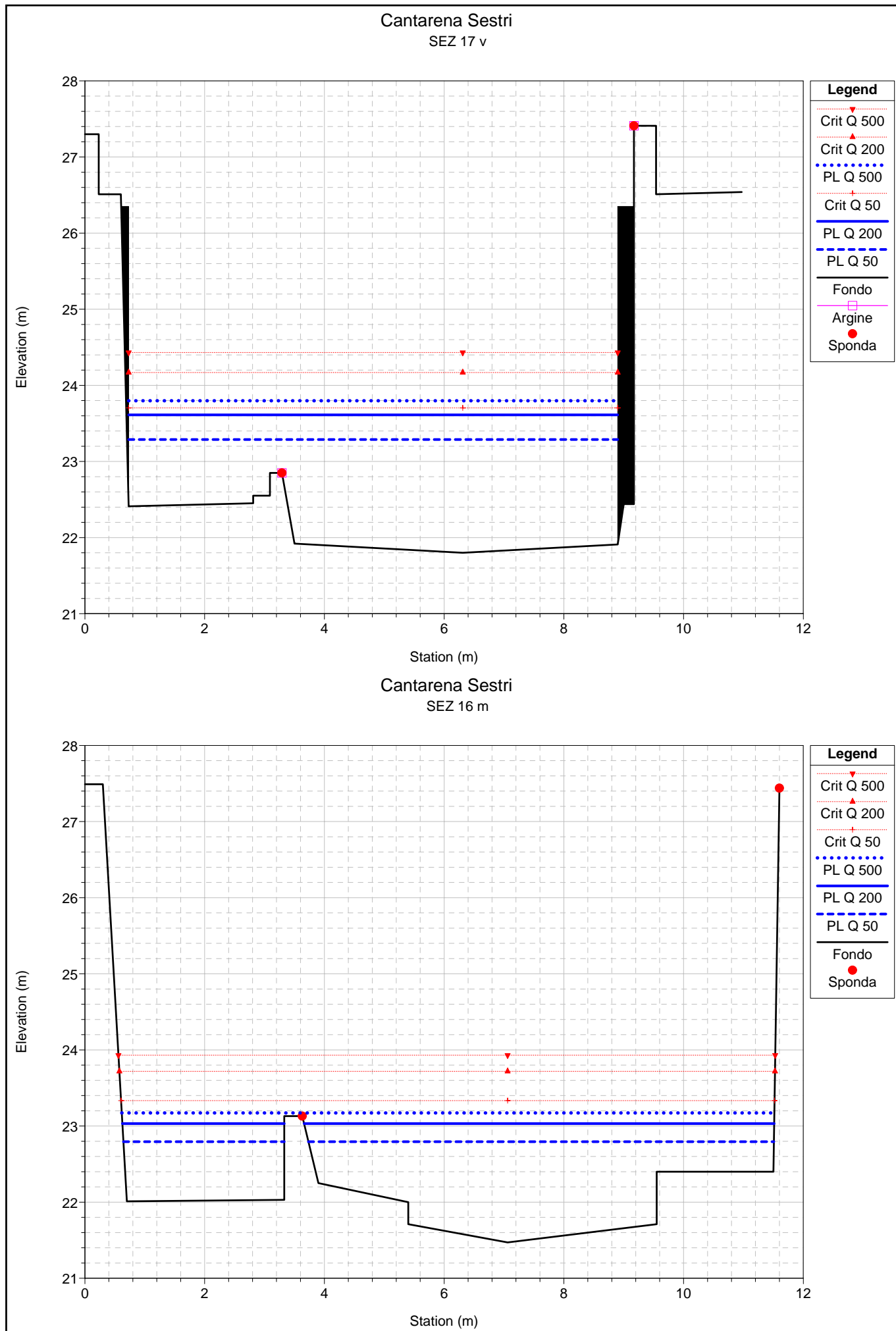


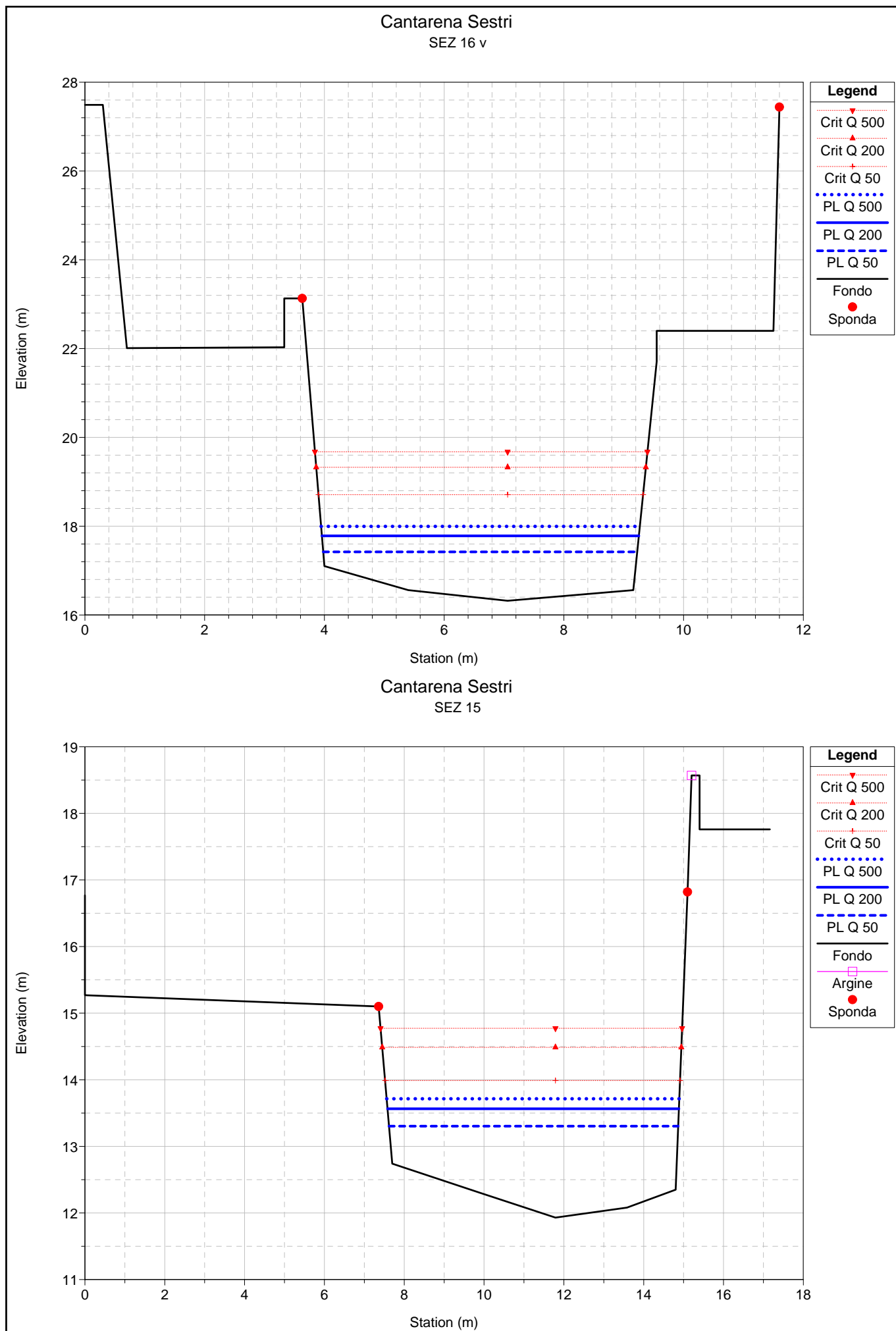
Cantarena Sestri
 ponte SEZ 18

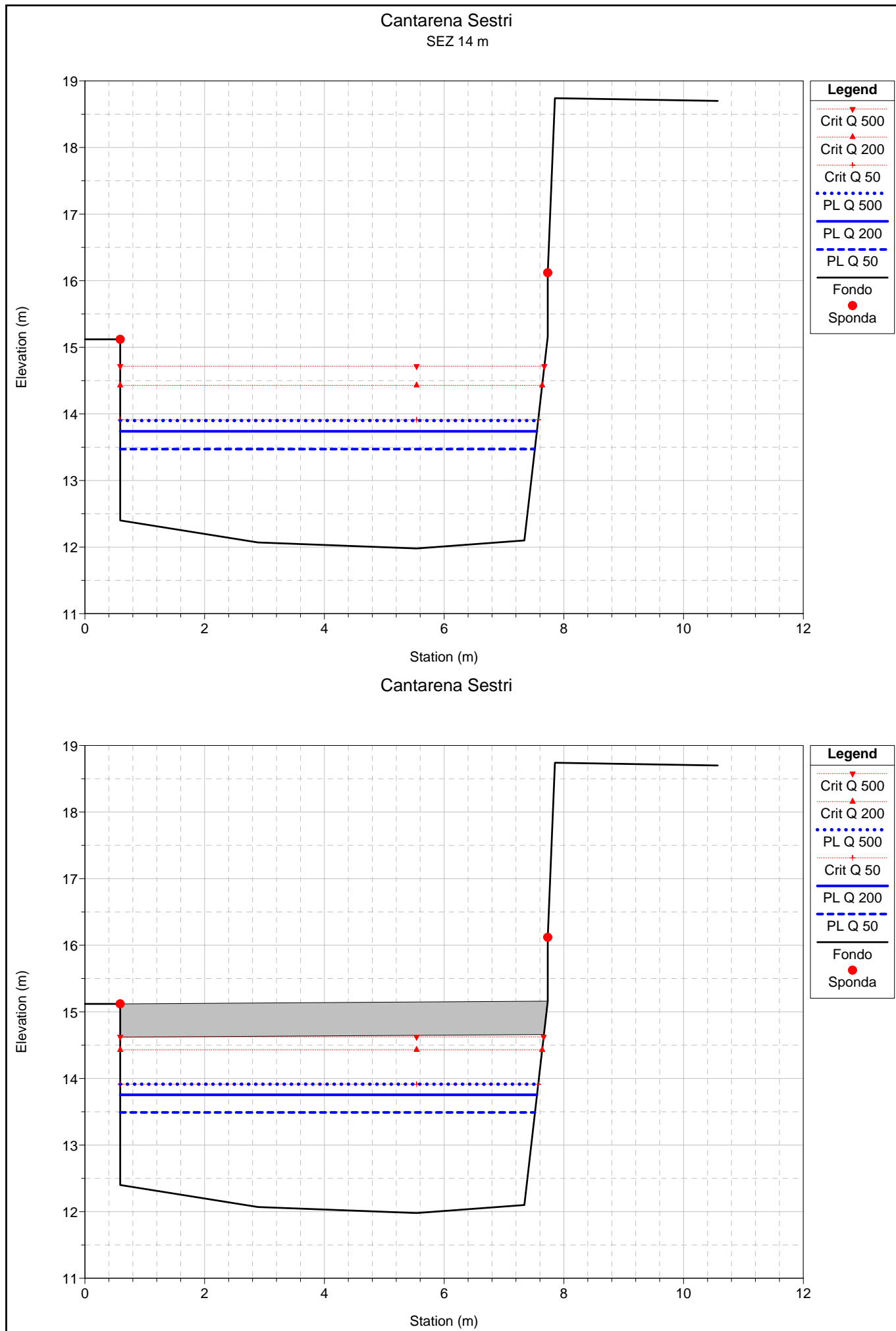


Cantarena Sestri
 ponte SEZ 18

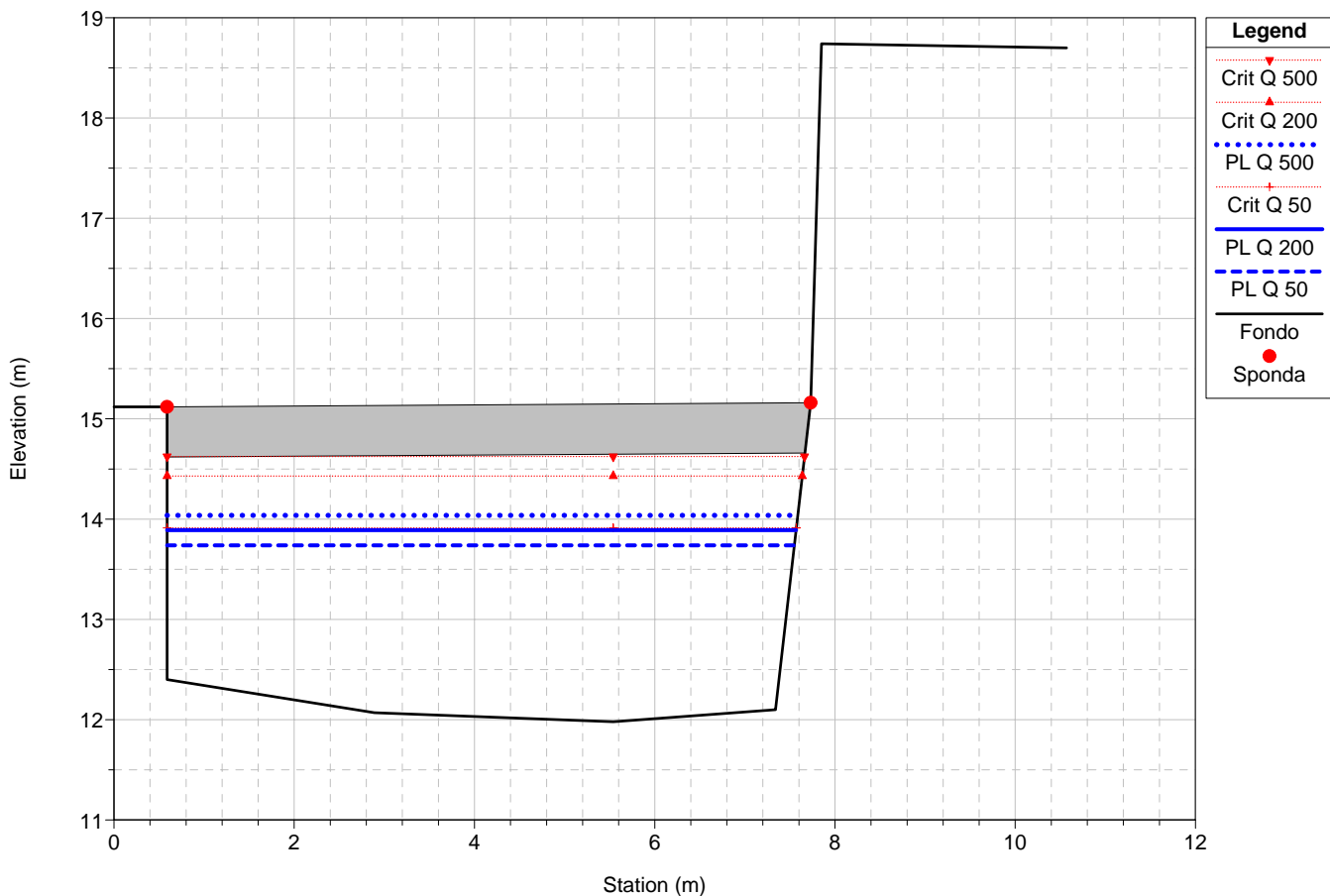




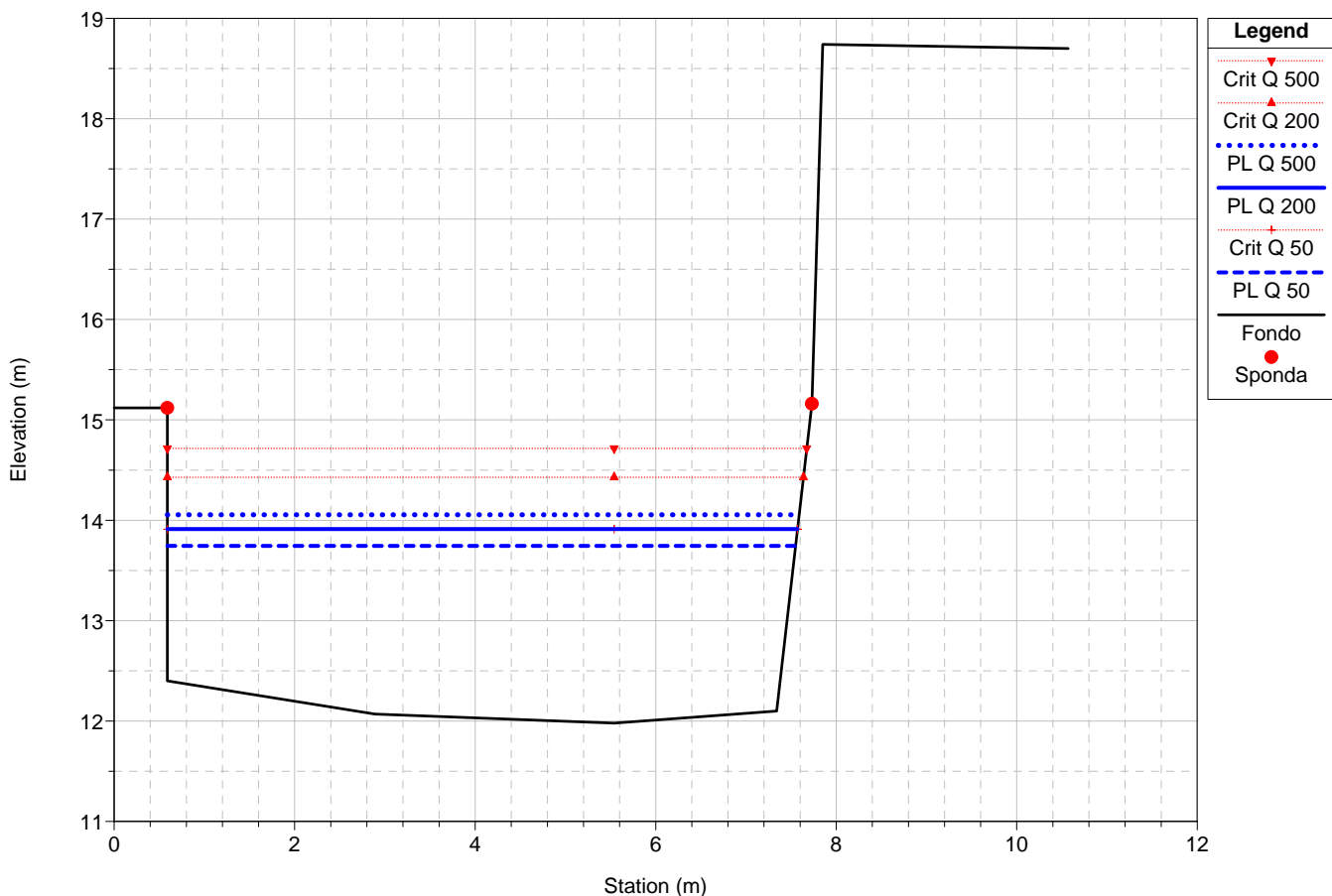


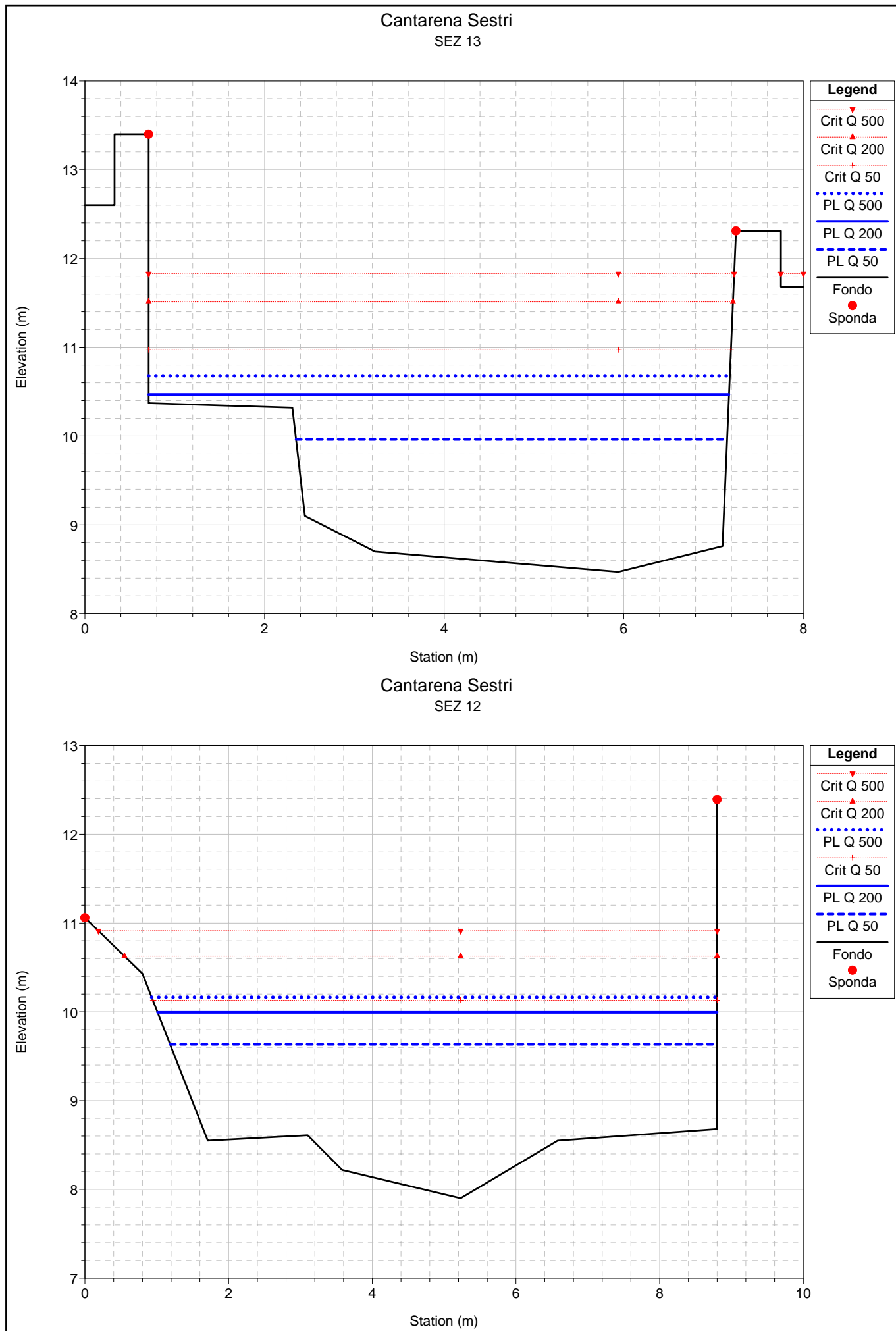


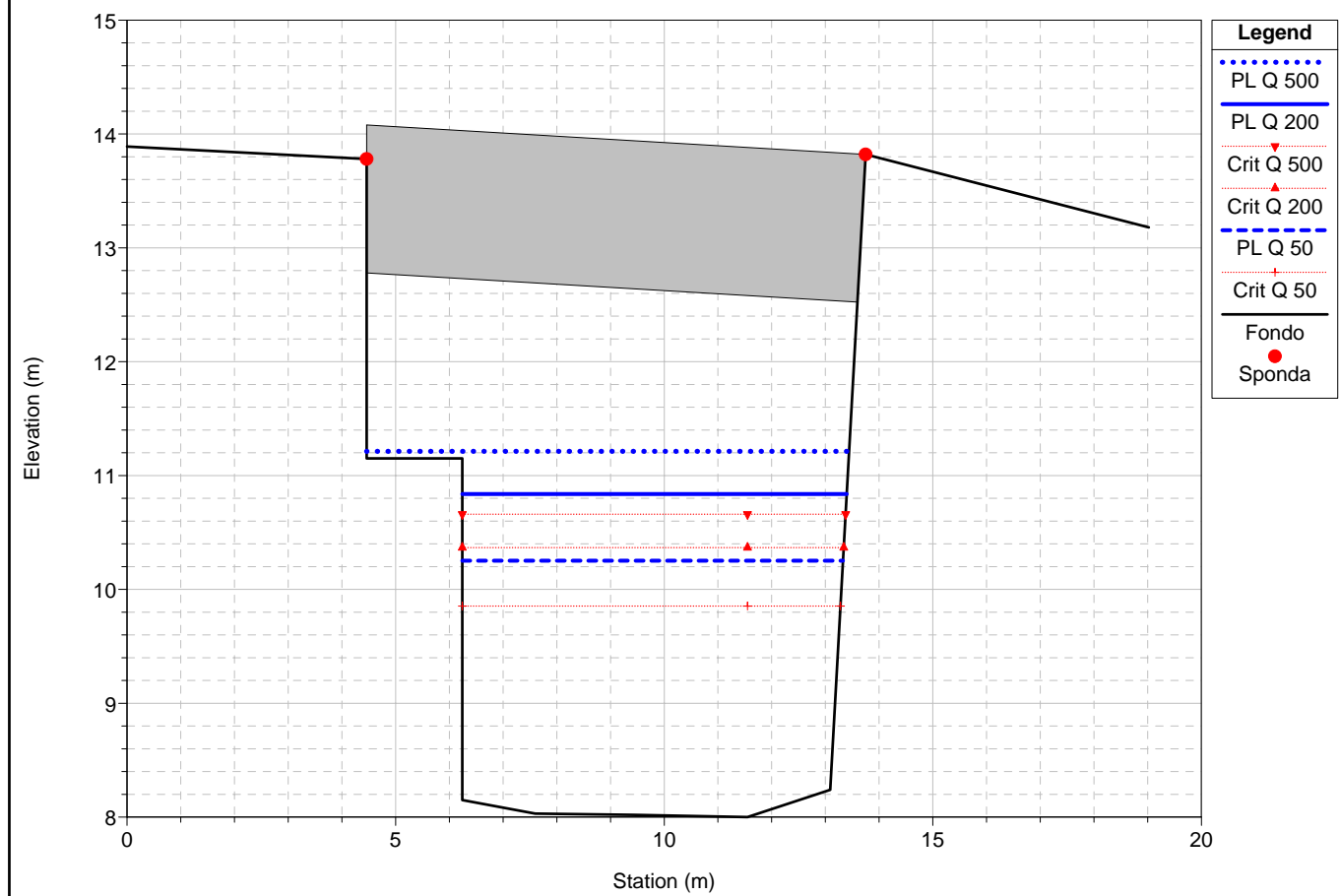
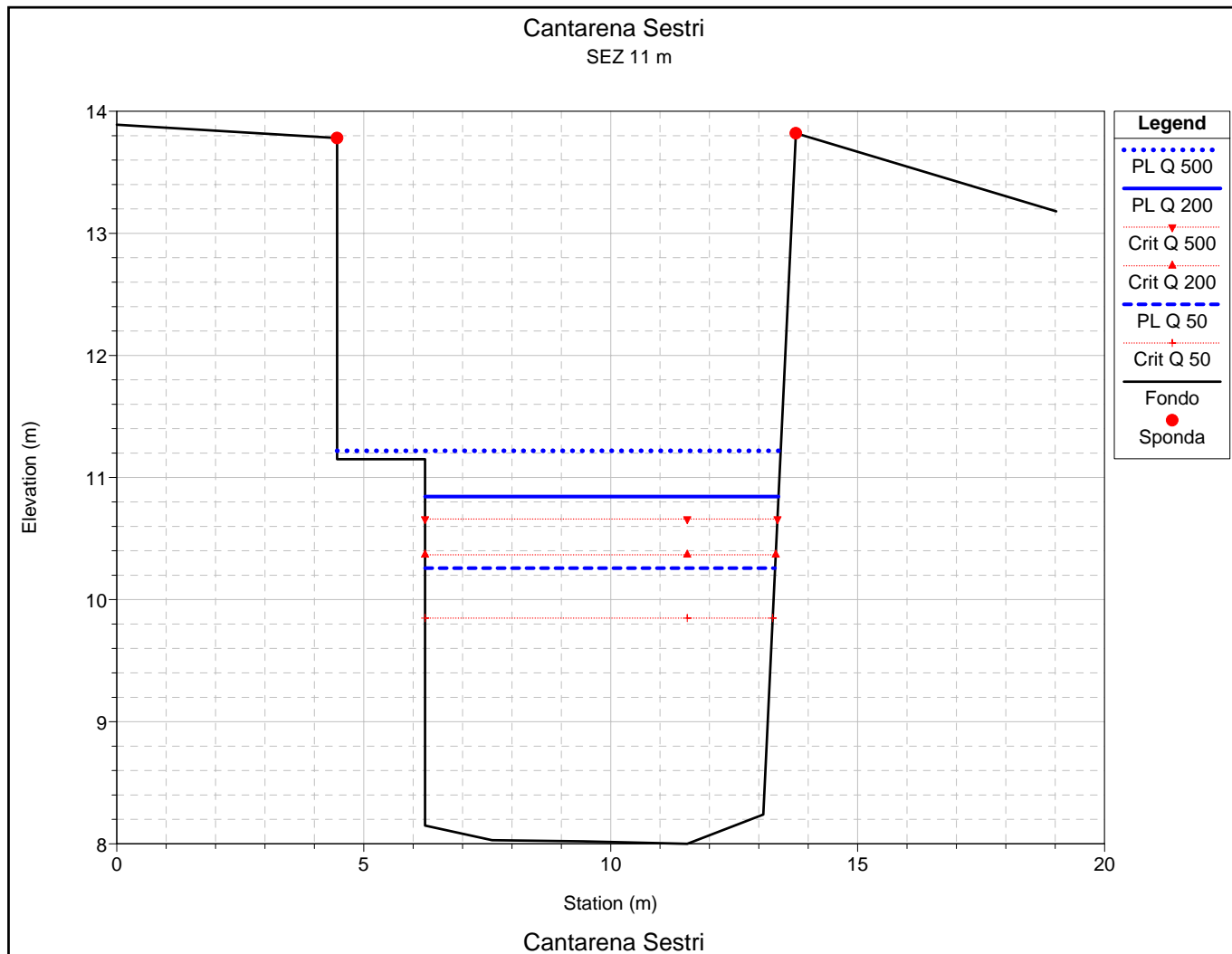
Cantarena Sestri



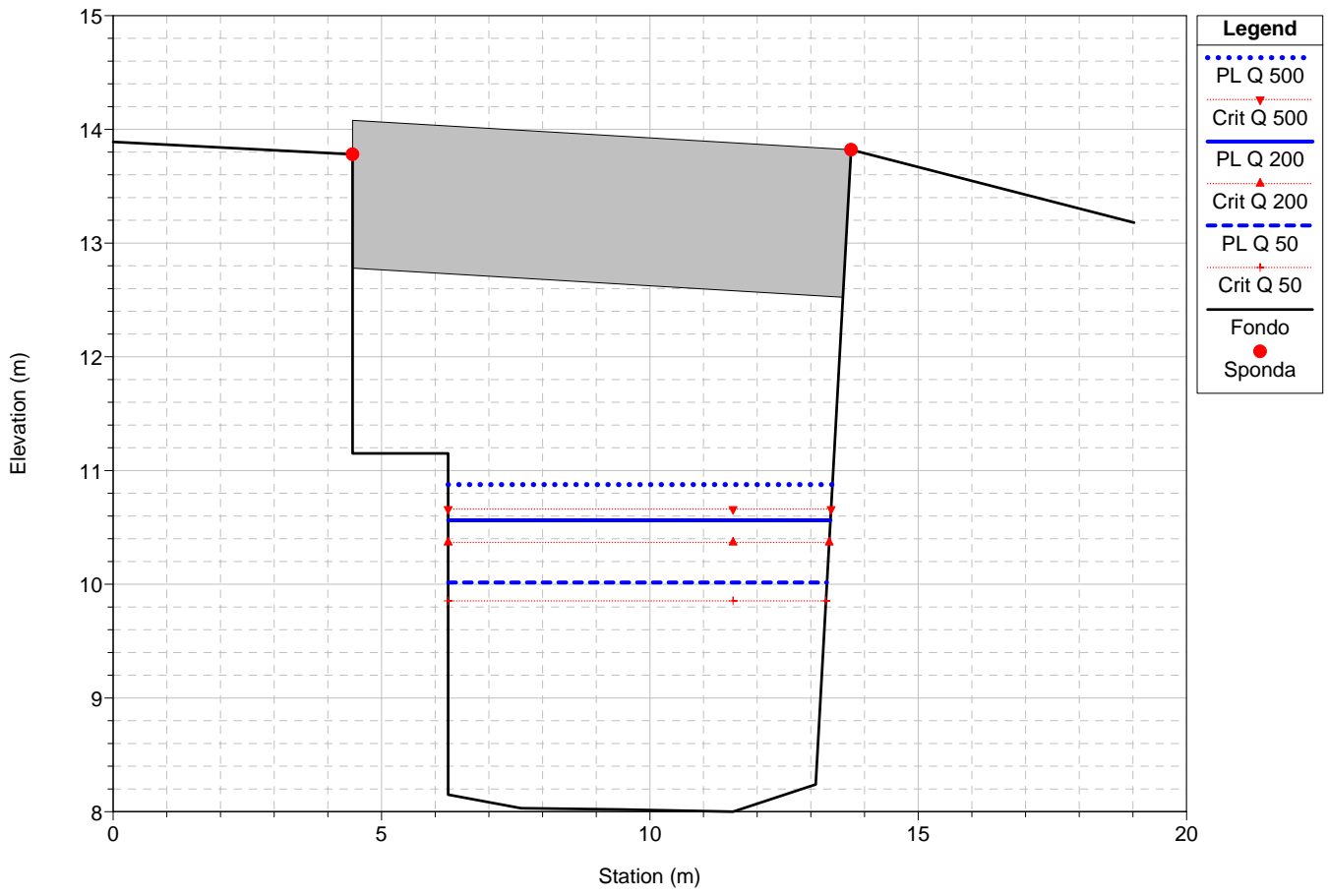
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SEZ 14 v



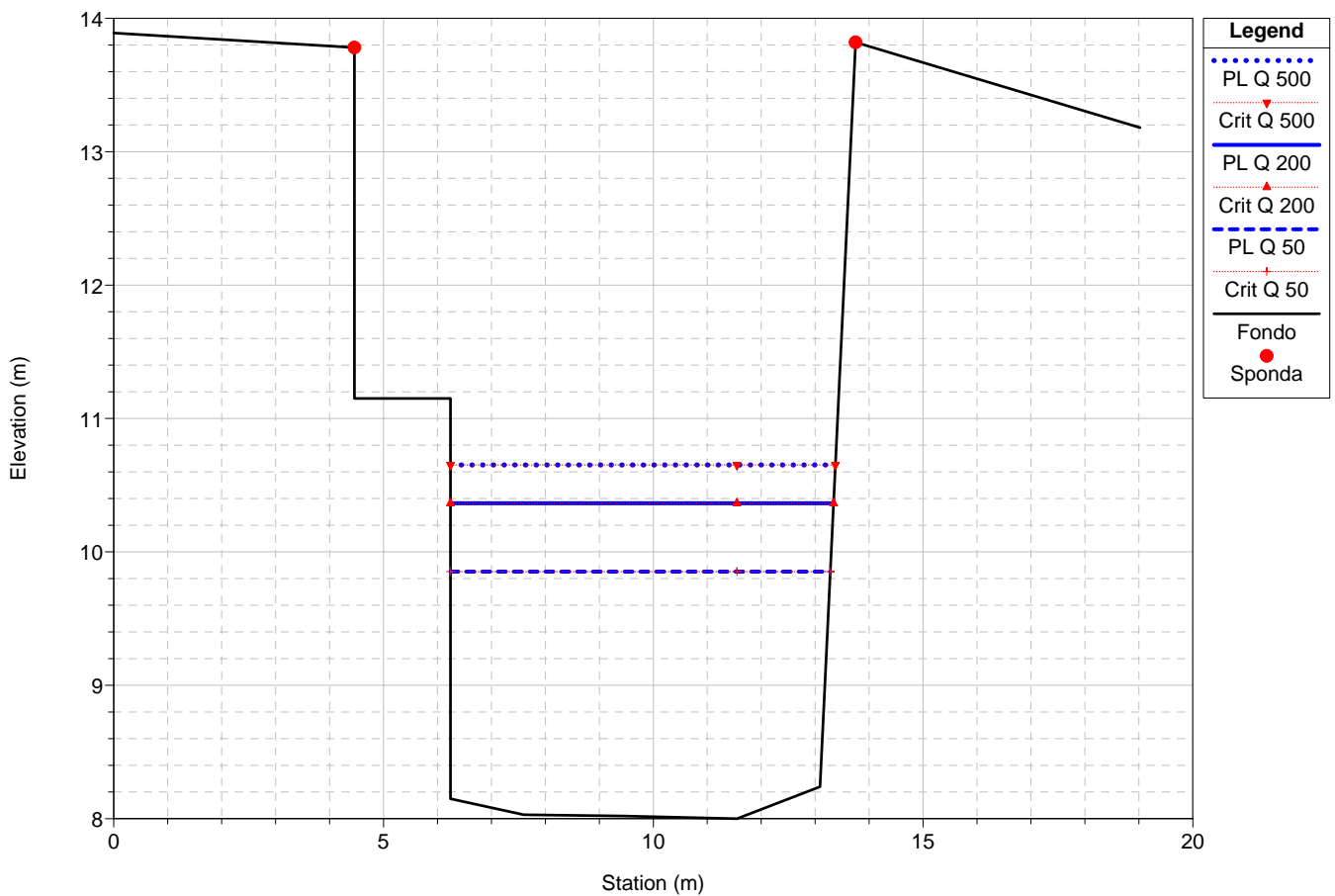




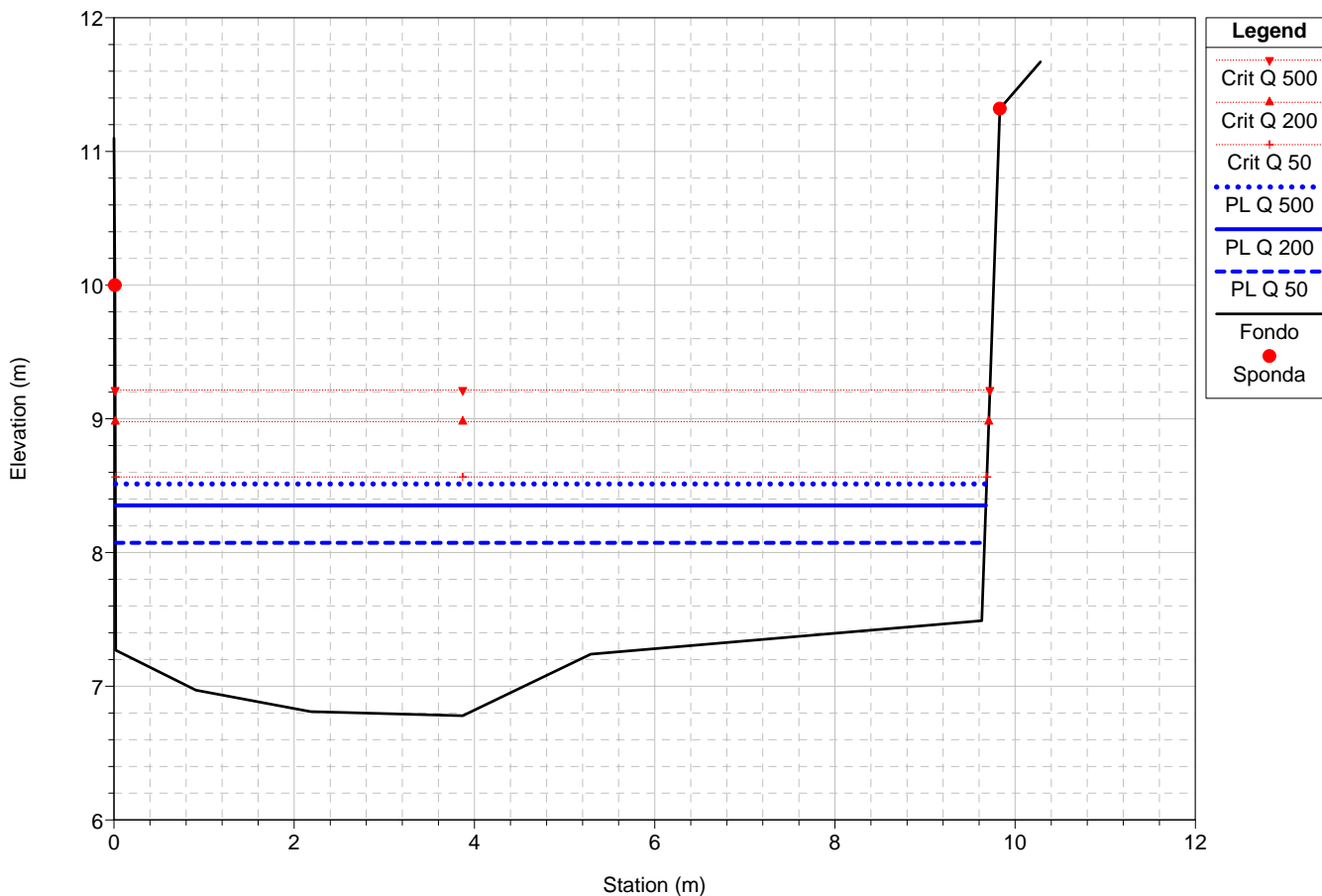
Cantarena Sestri



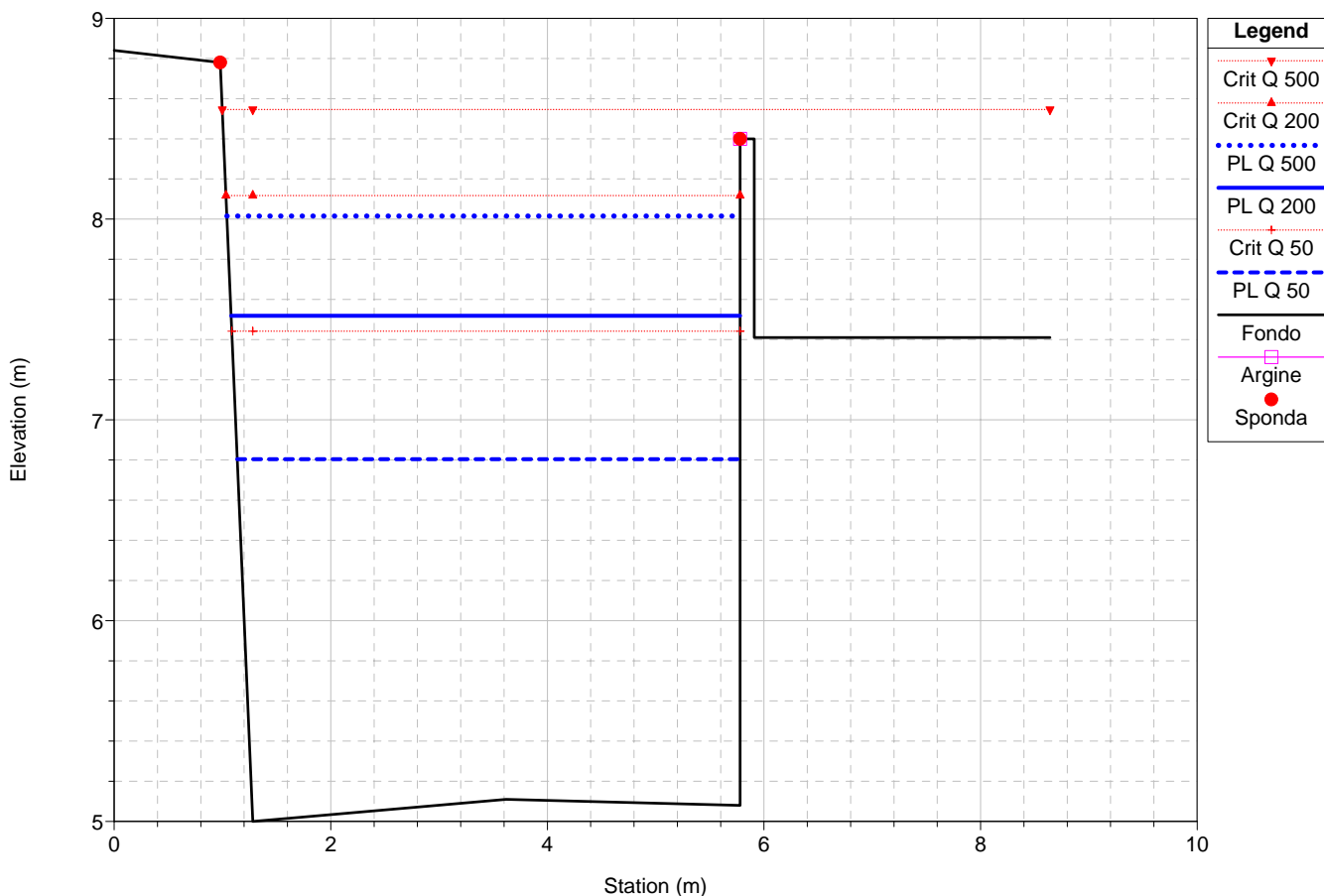
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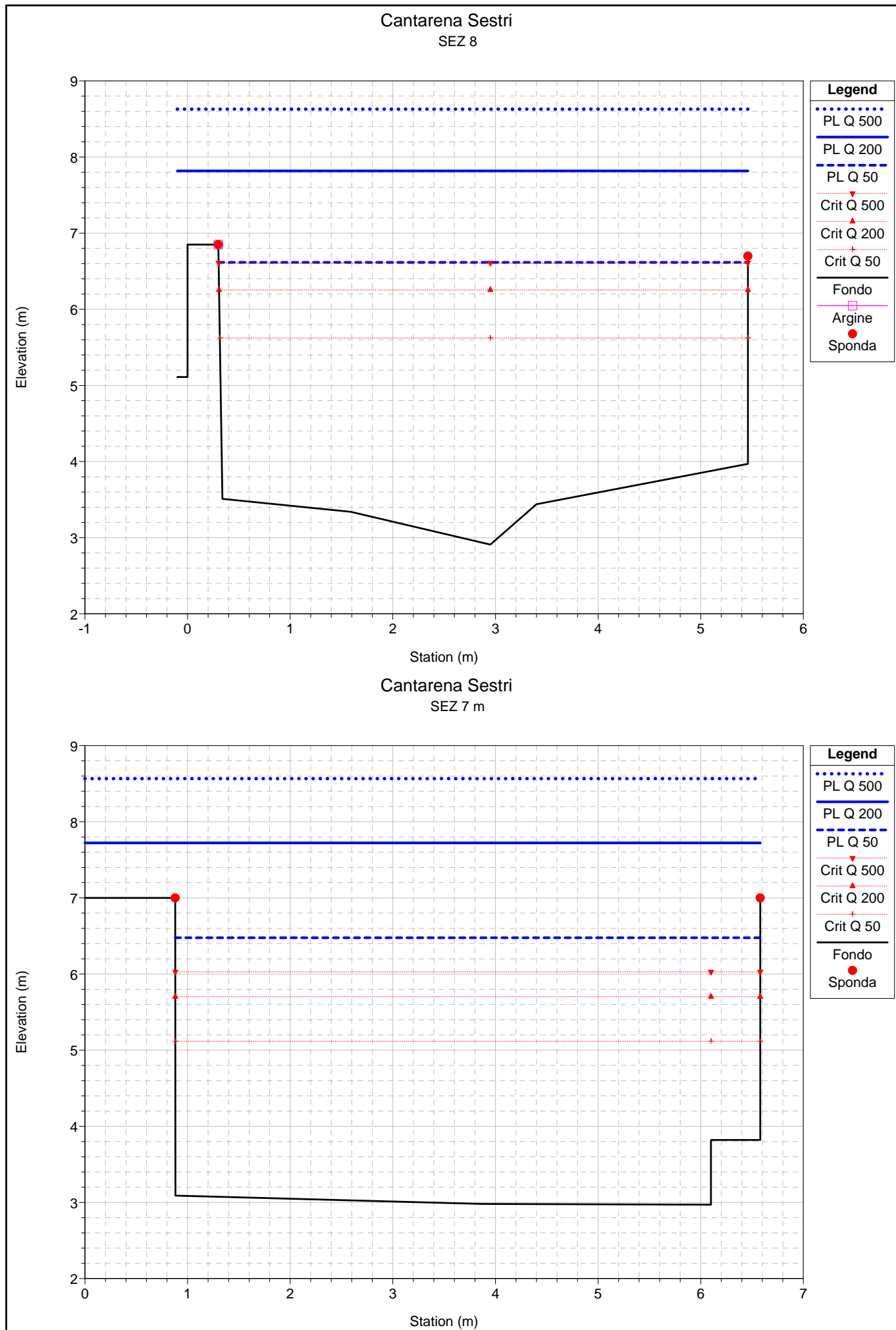


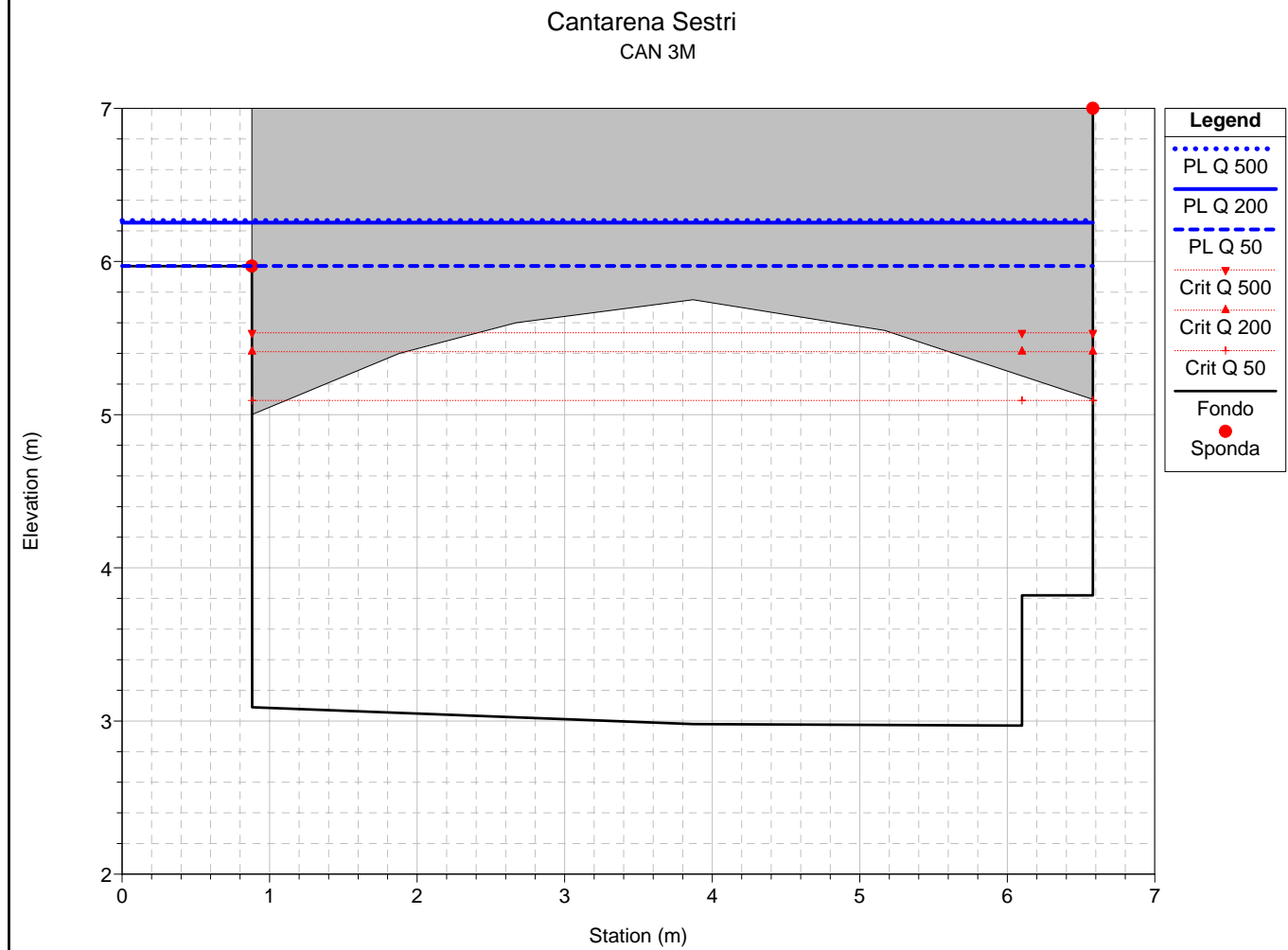
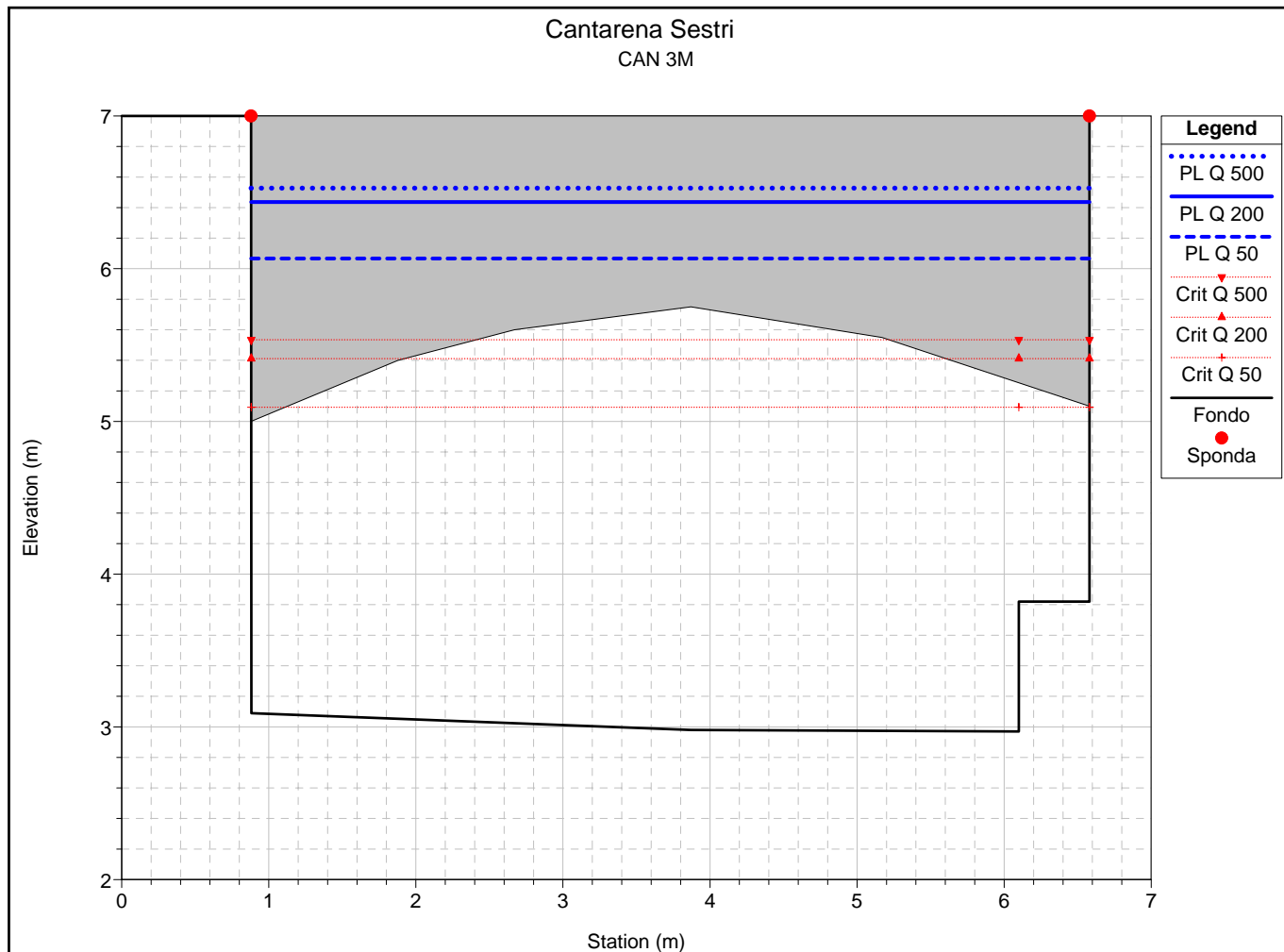
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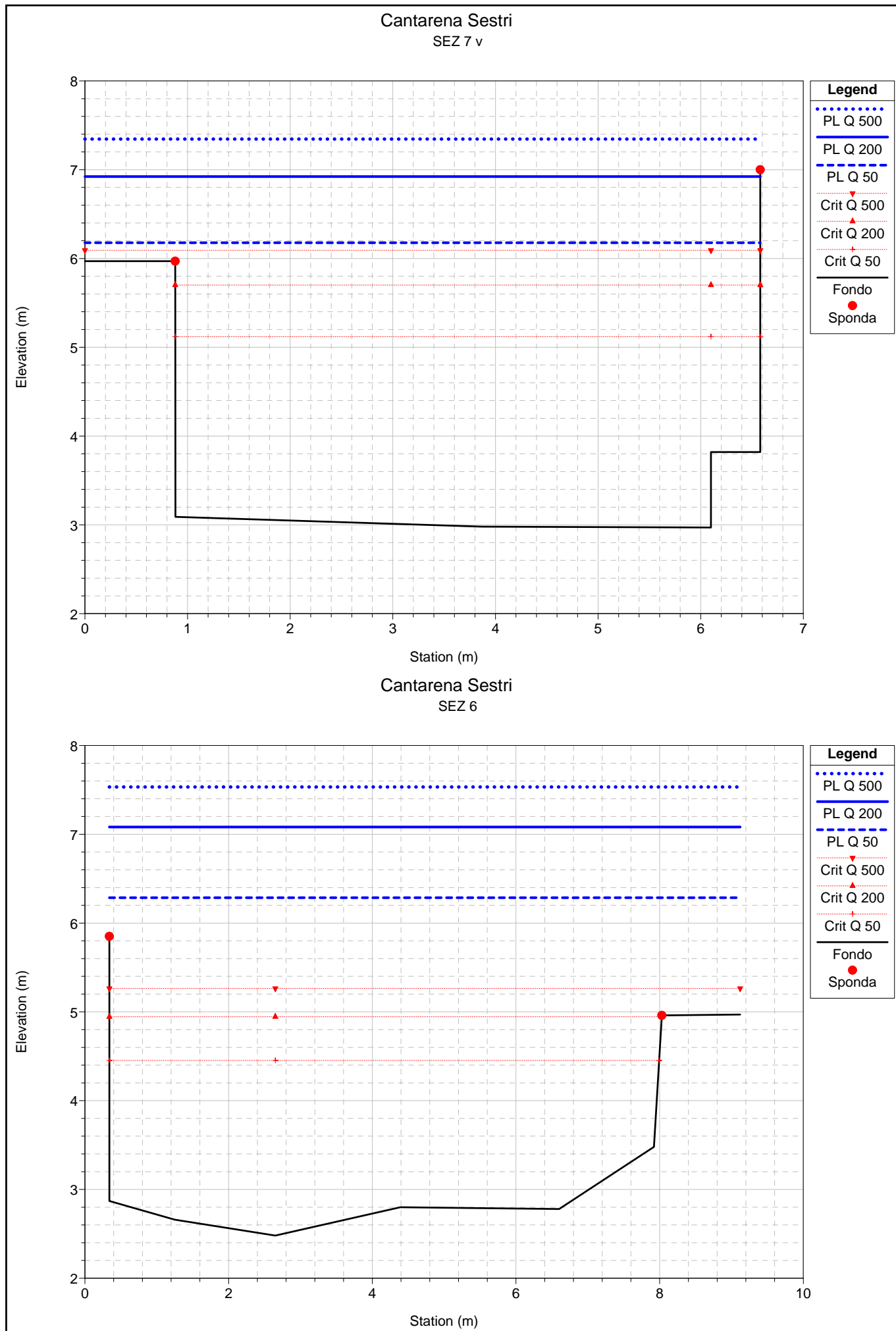


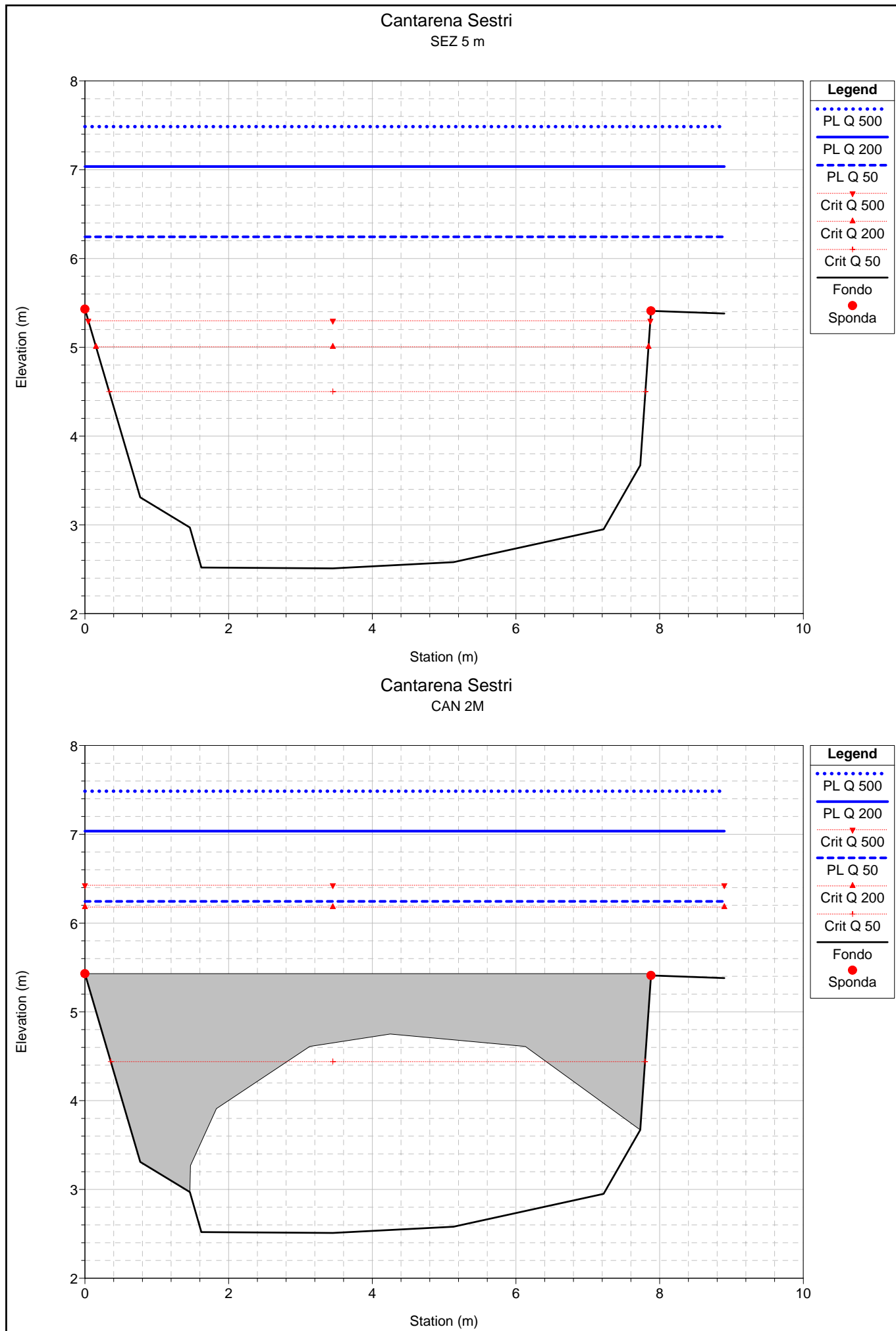
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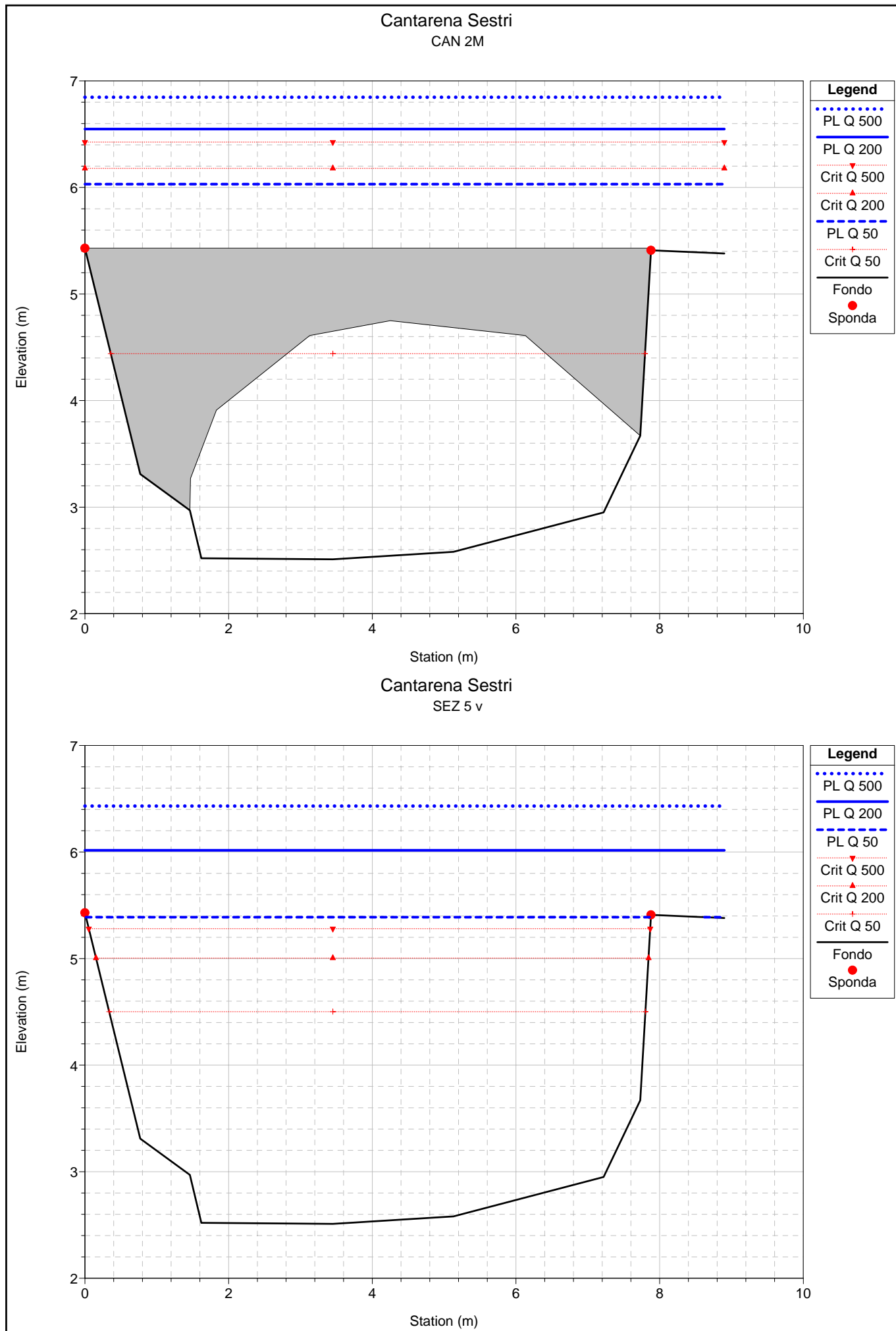




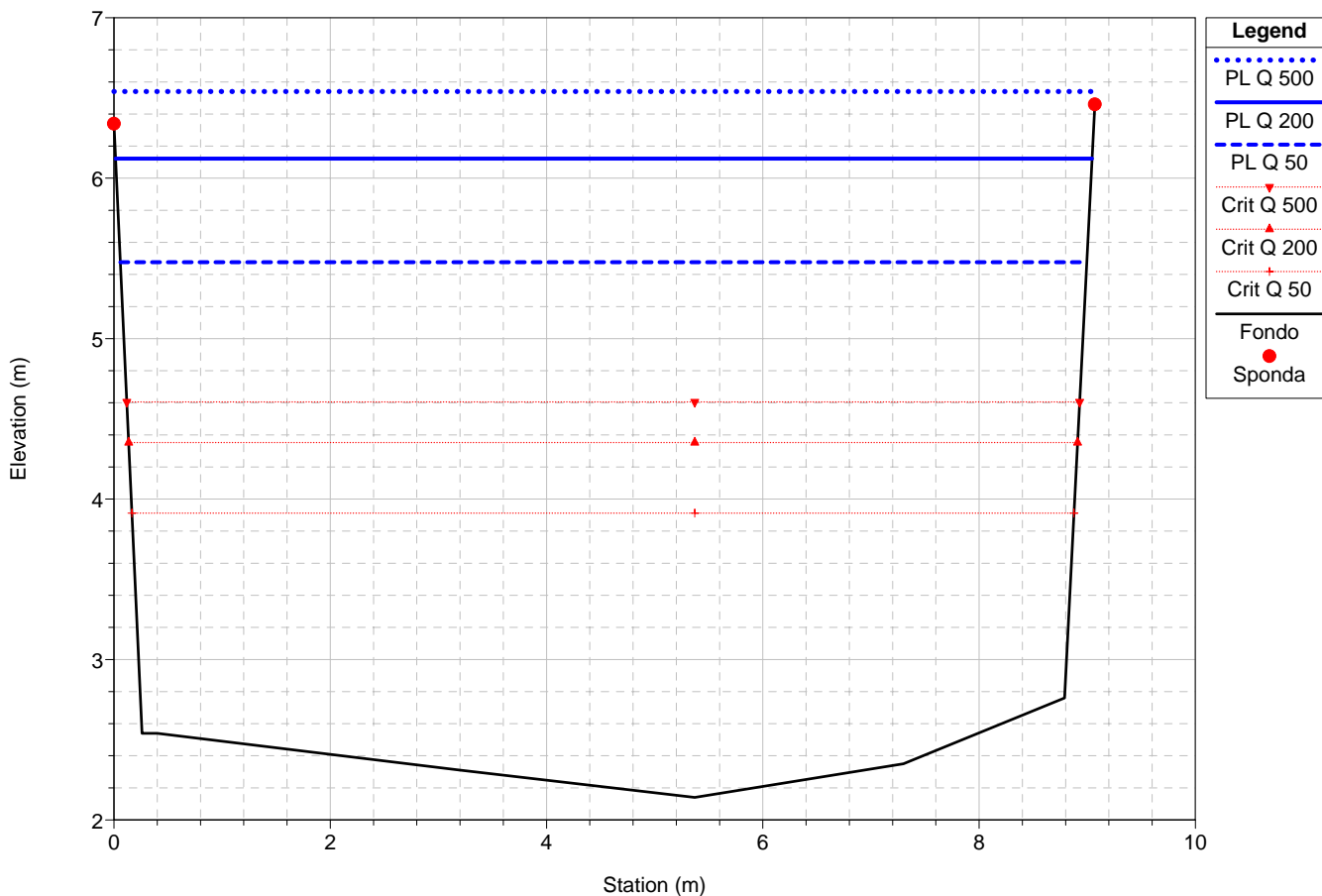




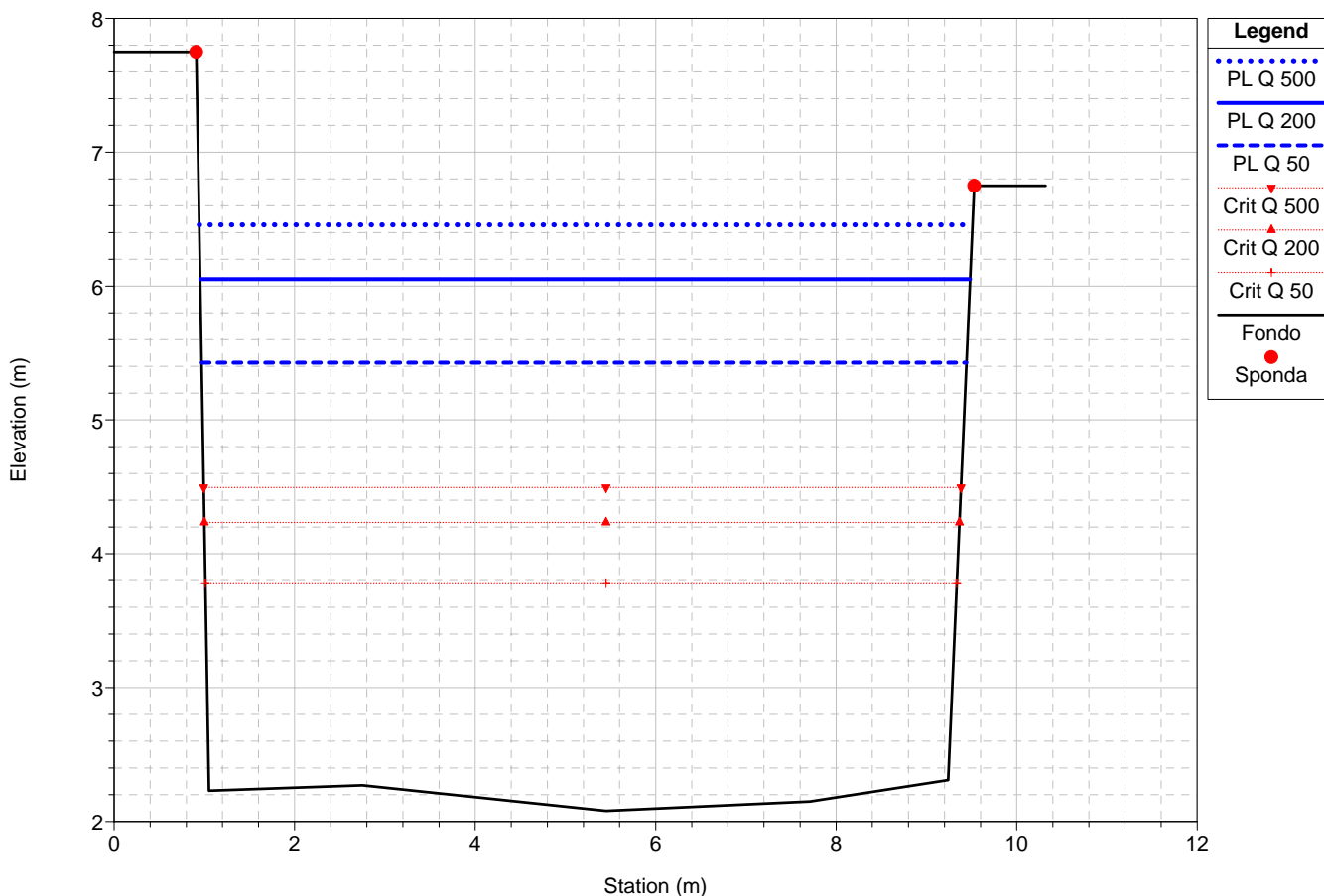




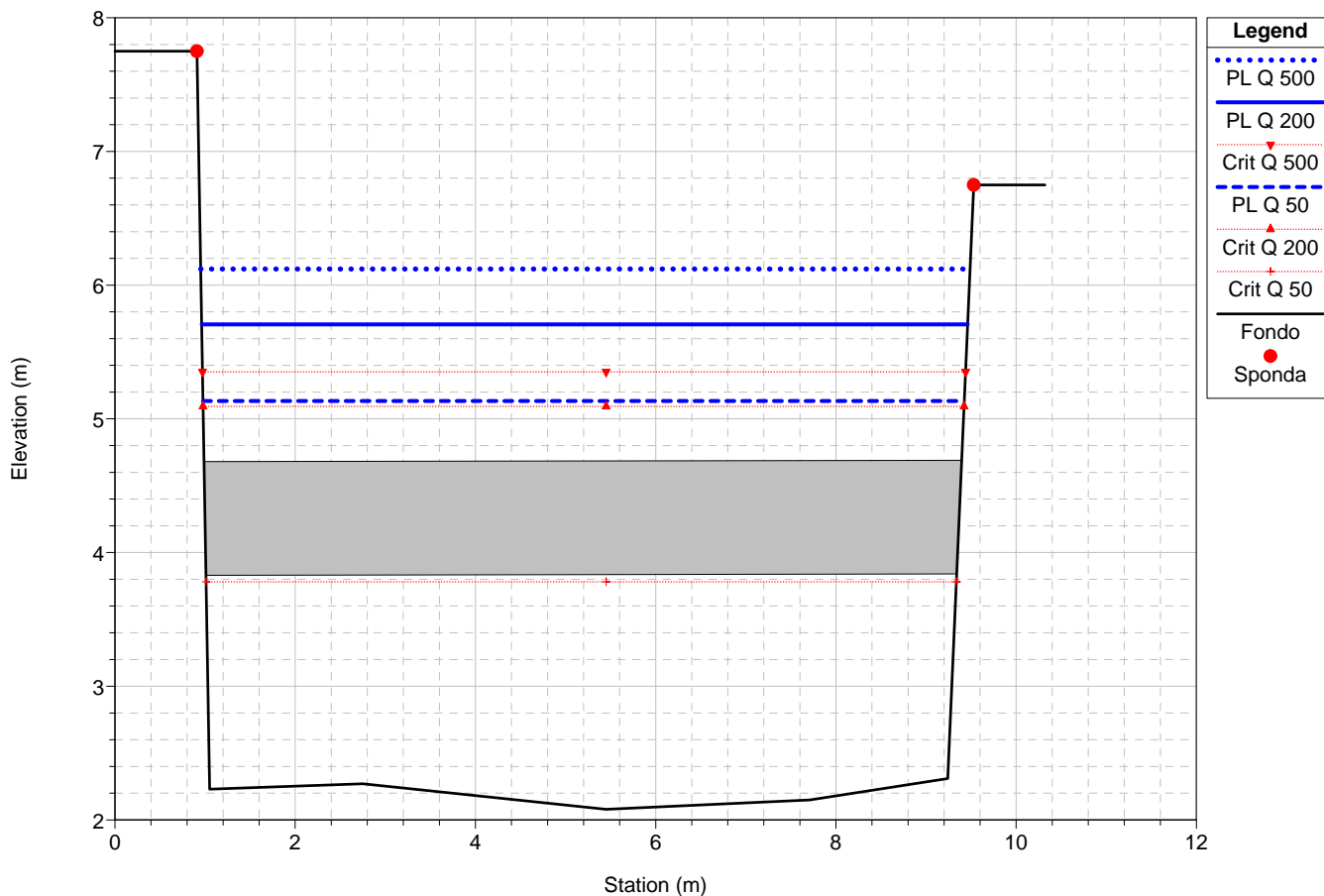
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SEZ 4



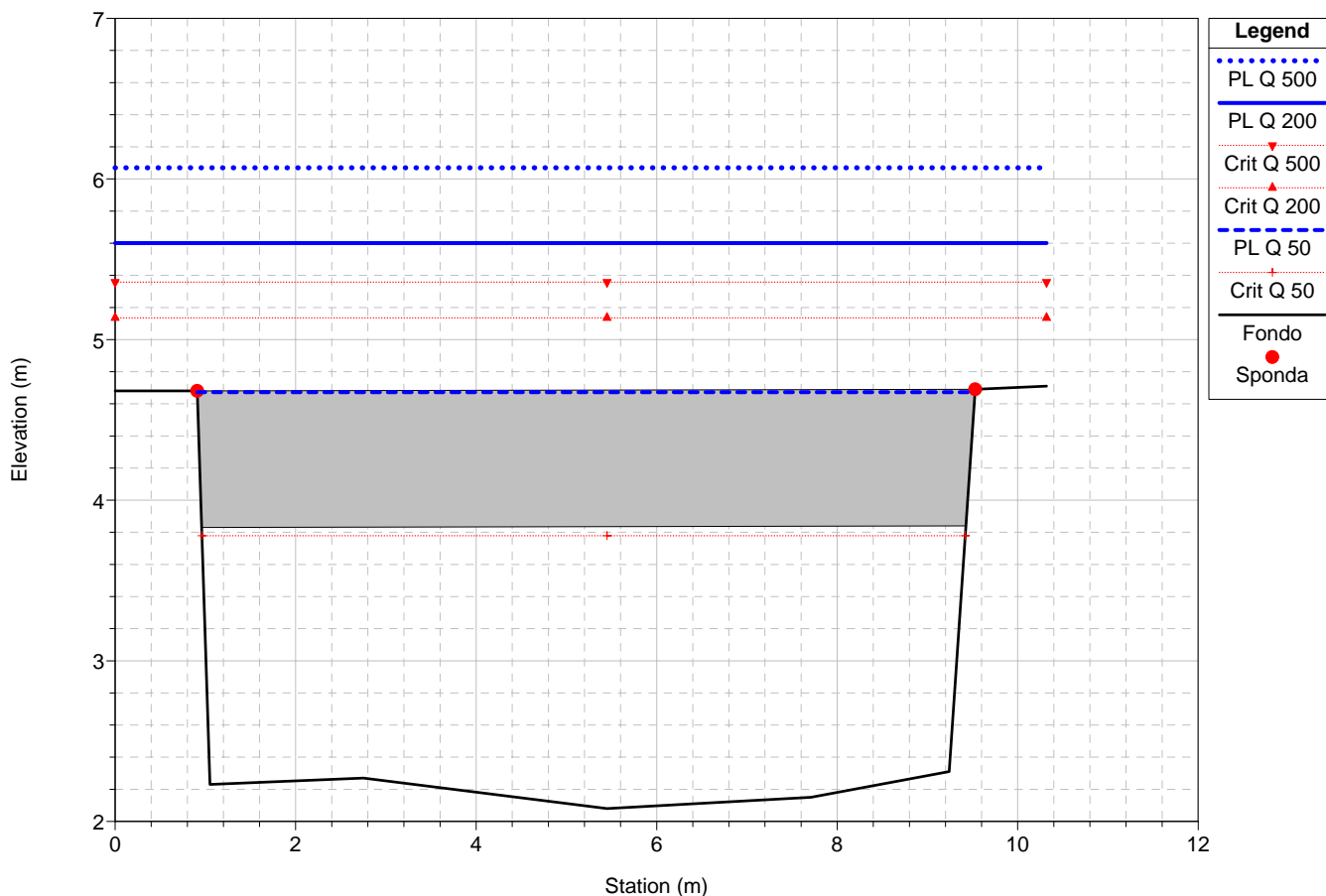
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SEZ 3 m

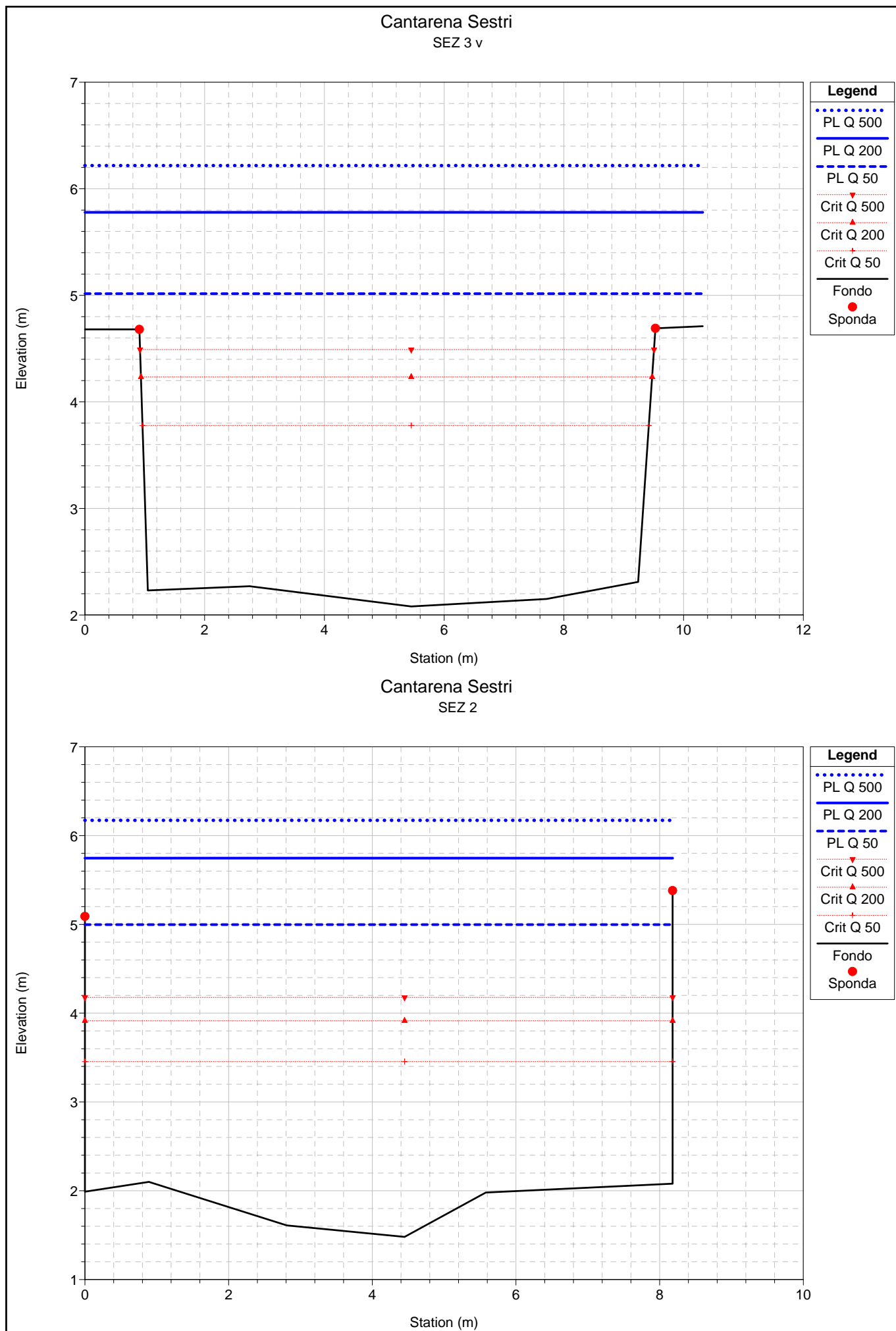


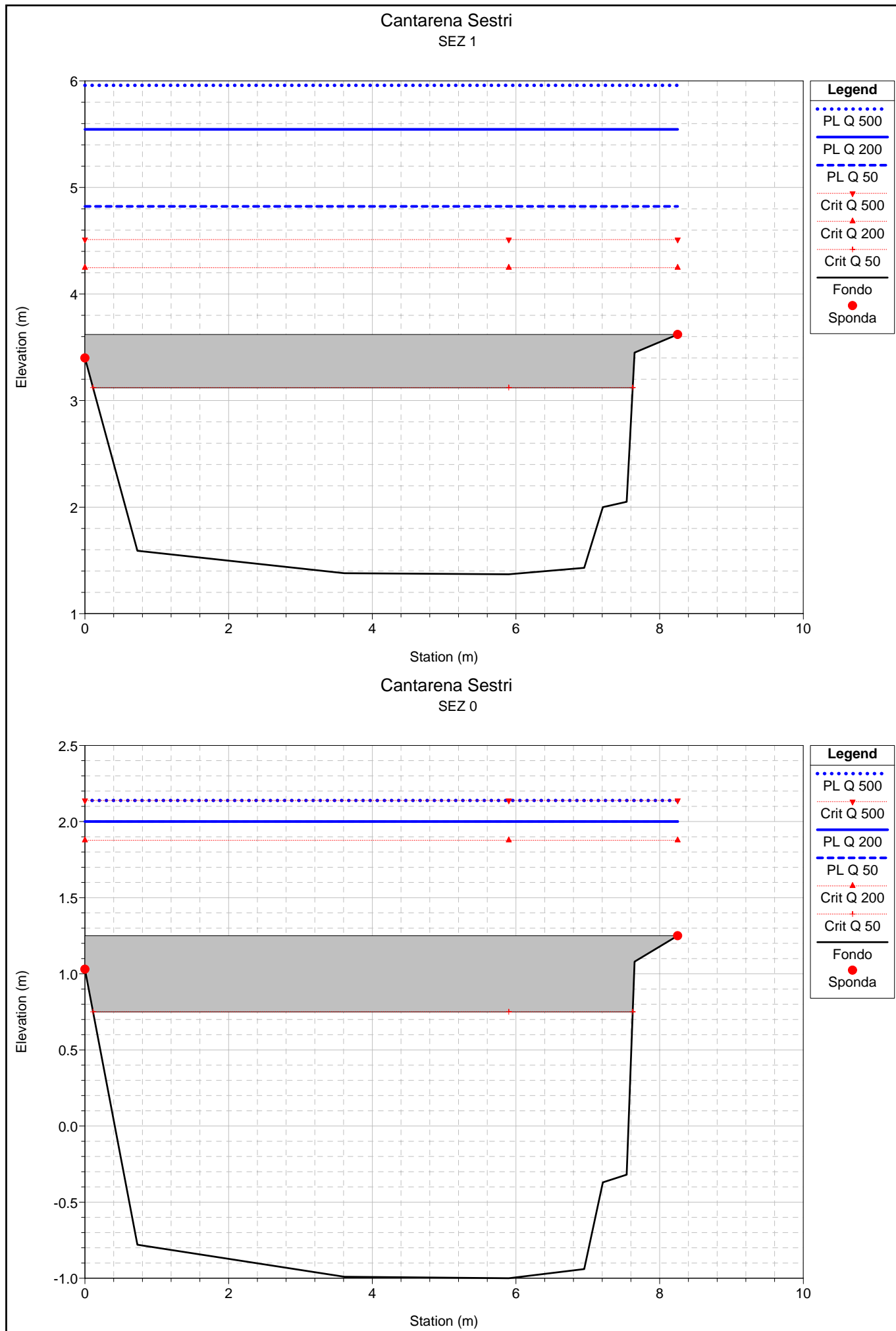
Cantarena Sestri
CAN 1M



Cantarena Sestri
CAN 1M







HEC-RAS Plan: STAMPA River: Cantarena Reach: Cantarena

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	LOB Elev (m)	L. Freeboard (m)	ROB Elev (m)	R. Freeboard (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
Cantarena	19. SEZ 19	Q 50	52.00	22.95	25.22	24.94	-0.28	27.63	2.41	24.76	25.54	0.002681	2.64	21.46	12.19	0.58
Cantarena	19. SEZ 19	Q 200	76.00	22.95	26.09	24.94	-1.15	27.63	1.54	25.10	26.39	0.001745	2.54	32.16	12.24	0.47
Cantarena	19. SEZ 19	Q 500	91.00	22.95	26.64	24.94	-1.70	27.63	0.99	25.29	26.93	0.001439	2.51	38.89	12.27	0.42
Cantarena	18.1 SEZ 18 m	Q 50	52.00	22.12	24.60	23.10	-1.50	27.70	3.10	24.36	25.37	0.006889	4.09	13.63	6.25	0.85
Cantarena	18.1 SEZ 18 m	Q 200	76.00	22.12	25.27	23.10	-2.17	27.70	2.43	24.92	26.23	0.006964	4.57	17.86	6.28	0.83
Cantarena	18.1 SEZ 18 m	Q 500	91.00	22.12	25.82	23.10	-2.72	27.70	1.88	25.24	26.78	0.006194	4.60	21.30	6.31	0.77
Cantarena	18.05 ponte SEZ 19	Bridge														
Cantarena	18. SEZ 18 v	Q 50	52.00	22.12	24.36	23.10	-1.26	27.70	3.34	24.36	25.33	0.009492	4.59	12.17	6.24	1.00
Cantarena	18. SEZ 18 v	Q 200	76.00	22.12	24.92	23.10	-1.82	27.70	2.78	24.92	26.17	0.009987	5.21	15.66	6.27	1.01
Cantarena	18. SEZ 18 v	Q 500	91.00	22.12	25.24	23.10	-2.14	27.70	2.46	25.24	26.64	0.010279	5.53	17.67	6.28	1.01
Cantarena	17.1 SEZ 17 m	Q 50	52.00	21.80	23.15	22.85	-0.30	27.41	4.26	23.70	25.02	0.033717	6.30	8.90	8.17	1.78
Cantarena	17.1 SEZ 17 m	Q 200	76.00	21.80	23.47	22.85	-0.62	27.41	3.94	24.17	25.82	0.033608	7.11	11.51	8.17	1.80
Cantarena	17.1 SEZ 17 m	Q 500	91.00	21.80	23.66	22.85	-0.81	27.41	3.75	24.43	26.28	0.033585	7.52	13.01	8.17	1.80
Cantarena	17.05 ponte SEZ 18	Bridge														
Cantarena	17. SEZ 17 v	Q 50	52.00	21.80	23.29	22.85	-0.44	27.41	4.12	23.70	24.76	0.023937	5.61	9.99	8.17	1.51
Cantarena	17. SEZ 17 v	Q 200	76.00	21.80	23.61	22.85	-0.76	27.41	3.80	24.17	25.55	0.025526	6.47	12.64	8.17	1.57
Cantarena	17. SEZ 17 v	Q 500	91.00	21.80	23.80	22.85	-0.95	27.41	3.61	24.43	26.01	0.026228	6.91	14.15	8.17	1.59
Cantarena	16. SEZ 16 m	Q 50	52.00	21.47	22.79	23.13	0.34	27.44	4.65	23.33	24.59	0.047114	6.17	8.87	10.46	2.10
Cantarena	16. SEZ 16 m	Q 200	76.00	21.47	23.03	23.13	0.10	27.44	4.41	23.72	25.38	0.047872	7.07	11.37	10.56	2.15
Cantarena	16. SEZ 16 m	Q 500	91.00	21.47	23.17	23.13	-0.04	27.44	4.27	23.93	25.83	0.048116	7.56	12.87	10.90	2.17
Cantarena	15.9 SEZ 16 v	Q 50	52.00	16.32	17.42	23.13	5.71	27.44	10.02	18.71	24.07	0.163599	11.42	4.55	5.25	3.91
Cantarena	15.9 SEZ 16 v	Q 200	76.00	16.32	17.78	23.13	5.35	27.44	9.66	19.33	24.87	0.126374	11.79	6.44	5.29	3.41
Cantarena	15.9 SEZ 16 v	Q 500	91.00	16.32	18.00	23.13	5.13	27.44	9.44	19.68	25.32	0.113620	11.99	7.59	5.32	3.21
Cantarena	15. SEZ 15	Q 50	52.00	11.93	13.30	15.10	1.80	16.82	3.52	13.99	15.65	0.042901	6.78	7.67	7.25	2.10
Cantarena	15. SEZ 15	Q 200	76.00	11.93	13.56	15.10	1.54	16.82	3.26	14.49	16.78	0.047401	7.94	9.57	7.30	2.22
Cantarena	15. SEZ 15	Q 500	91.00	11.93	13.71	15.10	1.39	16.82	3.11	14.77	17.42	0.049375	8.53	10.67	7.33	2.26
Cantarena	14.1 SEZ 14 m	Q 50	52.00	11.98	13.47	15.12	1.65	16.12	2.65	13.91	15.04	0.023692	5.55	9.37	6.92	1.52
Cantarena	14.1 SEZ 14 m	Q 200	76.00	11.98	13.74	15.12	1.38	16.12	2.38	14.43	16.07	0.029815	6.77	11.23	6.96	1.70
Cantarena	14.1 SEZ 14 m	Q 500	91.00	11.98	13.90	15.12	1.22	16.12	2.22	14.72	16.66	0.032492	7.37	12.35	6.98	1.77
Cantarena	14.05	Bridge														
Cantarena	14. SEZ 14 v	Q 50	52.00	11.98	13.74	15.12	1.38	15.16	1.42	13.91	14.83	0.013831	4.62	11.27	6.96	1.16
Cantarena	14. SEZ 14 v	Q 200	76.00	11.98	13.91	15.12	1.21	15.16	1.25	14.43	15.81	0.022232	6.11	12.44	6.98	1.46
Cantarena	14. SEZ 14 v	Q 500	91.00	11.98	14.05	15.12	1.07	15.16	1.11	14.72	16.39	0.025591	6.77	13.43	7.00	1.56
Cantarena	13. SEZ 13	Q 50	52.00	8.47	9.96	13.40	3.44	12.31	2.35	10.97	13.55	0.063313	8.39	6.19	4.80	2.36
Cantarena	13. SEZ 13	Q 200	76.00	8.47	10.47	13.40	2.93	12.31	1.84	11.51	14.23	0.063000	8.59	8.85	6.46	2.34
Cantarena	13. SEZ 13	Q 500	91.00	8.47	10.68	13.40	2.72	12.31	1.63	11.83	14.73	0.059441	8.92	10.21	6.47	2.27
Cantarena	12. SEZ 12	Q 50	52.00	7.90	9.63	11.06	1.43	12.39	2.76	10.13	11.30	0.027440	5.72	9.09	7.61	1.67
Cantarena	12. SEZ 12	Q 200	76.00	7.90	9.99	11.06	1.07	12.39	2.40	10.63	12.08	0.026673	6.40	11.88	7.79	1.65
Cantarena	12. SEZ 12	Q 500	91.00	7.90	10.17	11.06	0.89	12.39	2.22	10.91	12.58	0.028063	6.89	13.21	7.87	1.70

HEC-RAS Plan: STAMPA River: Cantarena Reach: Cantarena (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	LOB Elev (m)	L. Freeboard (m)	ROB Elev (m)	R. Freeboard (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
Cantarena	11.1 SEZ 11 m	Q 50	52.00	8.00	10.26	13.78	3.52	13.82	3.56	9.85	10.84	0.005803	3.39	15.33	7.09	0.74
Cantarena	11.1 SEZ 11 m	Q 200	76.00	8.00	10.84	13.78	2.94	13.82	2.98	10.37	11.62	0.006360	3.90	19.50	7.16	0.75
Cantarena	11.1 SEZ 11 m	Q 500	91.00	8.00	11.22	13.78	2.56	13.82	2.60	10.66	12.07	0.007478	4.08	22.32	8.98	0.83
Cantarena	11.05	Bridge														
Cantarena	11. SEZ 11 v	Q 50	52.00	8.00	9.85	13.78	3.93	13.82	3.97	9.85	10.74	0.010434	4.17	12.47	7.04	1.00
Cantarena	11. SEZ 11 v	Q 200	76.00	8.00	10.36	13.78	3.42	13.82	3.46	10.36	11.50	0.010826	4.72	16.09	7.10	1.00
Cantarena	11. SEZ 11 v	Q 500	91.00	8.00	10.65	13.78	3.13	13.82	3.17	10.65	11.93	0.011139	5.02	18.13	7.14	1.00
Cantarena	10. SEZ 10	Q 50	52.00	6.78	8.07	10.00	1.93	11.32	3.25	8.57	9.73	0.033438	5.71	9.11	9.64	1.88
Cantarena	10. SEZ 10	Q 200	76.00	6.78	8.35	10.00	1.65	11.32	2.97	8.98	10.47	0.032158	6.44	11.80	9.66	1.86
Cantarena	10. SEZ 10	Q 500	91.00	6.78	8.51	10.00	1.49	11.32	2.81	9.22	10.88	0.031690	6.82	13.35	9.67	1.85
Cantarena	9. SEZ 9	Q 50	52.00	5.00	6.80	8.78	1.98	8.40	1.60	7.44	9.00	0.034532	6.57	7.92	4.64	1.61
Cantarena	9. SEZ 9	Q 200	76.00	5.00	7.52	8.78	1.26	8.40	0.88	8.12	9.84	0.028431	6.76	11.25	4.70	1.39
Cantarena	9. SEZ 9	Q 500	91.00	5.00	8.02	8.78	0.76	8.40	0.38	8.55	10.30	0.024770	6.69	13.60	4.74	1.26
Cantarena	8. SEZ 8	Q 50	52.00	2.91	6.62	6.85	0.23	6.70	0.08	5.62	7.13	0.004835	3.18	16.34	5.16	0.57
Cantarena	8. SEZ 8	Q 200	76.00	2.91	7.82	6.85	-0.97	6.70	-1.12	6.25	8.39	0.004115	3.36	23.10	5.56	0.51
Cantarena	8. SEZ 8	Q 500	91.00	2.91	8.63	6.85	-1.78	6.70	-1.93	6.61	9.21	0.003617	3.38	27.61	5.56	0.47
Cantarena	7. SEZ 7 m	Q 50	52.00	2.97	6.48	7.00	0.52	7.00	0.52	5.12	6.84	0.003181	2.68	19.37	5.70	0.46
Cantarena	7. SEZ 7 m	Q 200	76.00	2.97	7.72	7.00	-0.72	7.00	-0.72	5.70	8.13	0.002810	2.85	27.11	6.58	0.42
Cantarena	7. SEZ 7 m	Q 500	91.00	2.97	8.57	7.00	-1.57	7.00	-1.57	6.03	8.98	0.002444	2.86	32.66	6.58	0.39
Cantarena	6.95 CAN 3M	Bridge														
Cantarena	6.9 SEZ 7 v	Q 50	52.00	2.97	6.18	5.97	-0.21	7.00	0.82	5.12	6.62	0.003941	2.94	17.85	6.58	0.53
Cantarena	6.9 SEZ 7 v	Q 200	76.00	2.97	6.92	5.97	-0.95	7.00	0.08	5.70	7.51	0.004340	3.41	22.75	6.58	0.56
Cantarena	6.9 SEZ 7 v	Q 500	91.00	2.97	7.34	5.97	-1.37	7.00	-0.34	6.09	8.02	0.004542	3.66	25.53	6.58	0.57
Cantarena	6. SEZ 6	Q 50	52.00	2.48	6.29	5.85	-0.44	4.96	-1.33	4.45	6.46	0.001035	1.89	28.30	8.78	0.32
Cantarena	6. SEZ 6	Q 200	76.00	2.48	7.08	5.85	-1.23	4.96	-2.12	4.94	7.33	0.001191	2.23	35.29	8.78	0.34
Cantarena	6. SEZ 6	Q 500	91.00	2.48	7.53	5.85	-1.68	4.96	-2.57	5.26	7.82	0.001272	2.41	39.25	8.78	0.35
Cantarena	5.1 SEZ 5 m	Q 50	52.00	2.51	6.24	5.43	-0.81	5.41	-0.83	4.50	6.44	0.001133	1.96	27.07	8.90	0.34
Cantarena	5.1 SEZ 5 m	Q 200	76.00	2.51	7.04	5.43	-1.61	5.41	-1.63	5.00	7.30	0.001266	2.29	34.11	8.90	0.36
Cantarena	5.1 SEZ 5 m	Q 500	91.00	2.51	7.48	5.43	-2.05	5.41	-2.07	5.30	7.79	0.001334	2.47	38.11	8.90	0.37
Cantarena	5.05 CAN 2M	Bridge														
Cantarena	5. SEZ 5 v	Q 50	52.00	2.51	5.39	5.43	0.04	5.41	0.02	4.50	5.75	0.002839	2.67	19.46	8.14	0.54
Cantarena	5. SEZ 5 v	Q 200	76.00	2.51	6.02	5.43	-0.59	5.41	-0.61	5.00	6.50	0.003010	3.09	25.05	8.90	0.56
Cantarena	5. SEZ 5 v	Q 500	91.00	2.51	6.43	5.43	-1.00	5.41	-1.02	5.28	6.96	0.002931	3.24	28.74	8.90	0.55
Cantarena	4. SEZ 4	Q 50	52.00	2.14	5.48	6.34	0.86	6.46	0.98	3.91	5.66	0.001217	1.91	27.18	8.94	0.35
Cantarena	4. SEZ 4	Q 200	76.00	2.14	6.12	6.34	0.22	6.46	0.34	4.35	6.39	0.001532	2.30	32.98	9.03	0.38
Cantarena	4. SEZ 4	Q 500	91.00	2.14	6.54	6.34	-0.20	6.46	-0.08	4.61	6.85	0.001640	2.48	36.76	9.07	0.39
Cantarena	3. SEZ 3 m	Q 50	52.00	2.08	5.43	7.75	2.32	6.75	1.32	3.78	5.62	0.001271	1.93	27.01	8.47	0.34
Cantarena	3. SEZ 3 m	Q 200	76.00	2.08	6.05	7.75	1.70	6.75	0.70	4.23	6.33	0.001668	2.35	32.31	8.53	0.39
Cantarena	3. SEZ 3 m	Q 500	91.00	2.08	6.46	7.75	1.29	6.75	0.29	4.49	6.79	0.001819	2.54	35.79	8.57	0.40

HEC-RAS Plan: STAMPA River: Cantarena Reach: Cantarena (Continued)

Reach	River Sta		Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	LOB Elev (m)	L. Freeboard (m)	ROB Elev (m)	R. Freeboard (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
Cantarena	2.95	CAN 1M		Bridge													
Cantarena	2.9	SEZ 3 v	Q 50	52.00	2.08	5.02	4.68	-0.34	4.69	-0.33	3.78	5.25	0.001651	2.17	24.40	10.32	0.42
Cantarena	2.9	SEZ 3 v	Q 200	76.00	2.08	5.78	4.68	-1.10	4.69	-1.09	4.23	6.08	0.001518	2.45	32.28	10.32	0.42
Cantarena	2.9	SEZ 3 v	Q 500	91.00	2.08	6.22	4.68	-1.54	4.69	-1.53	4.49	6.55	0.001457	2.59	36.80	10.32	0.42
Cantarena	2.	SEZ 2	Q 50	52.00	1.48	5.00	5.09	0.09	5.38	0.38	3.46	5.21	0.001461	2.02	25.73	8.18	0.36
Cantarena	2.	SEZ 2	Q 200	76.00	1.48	5.75	5.09	-0.66	5.38	-0.37	3.91	6.04	0.001750	2.39	31.85	8.18	0.39
Cantarena	2.	SEZ 2	Q 500	91.00	1.48	6.17	5.09	-1.08	5.38	-0.79	4.18	6.51	0.001904	2.58	35.34	8.18	0.40
Cantarena	1.	SEZ 1	Q 50	52.00	1.37	4.82	3.12	-1.70	3.12	-1.70	3.12	5.12	0.006376	2.40	21.67	8.25	0.42
Cantarena	1.	SEZ 1	Q 200	76.00	1.37	5.55	3.12	-2.43	3.12	-2.43	4.25	5.93	0.006476	2.75	27.64	8.25	0.44
Cantarena	1.	SEZ 1	Q 500	91.00	1.37	5.96	3.12	-2.84	3.12	-2.84	4.51	6.40	0.006536	2.93	31.04	8.25	0.45
Cantarena	0.	SEZ 0	Q 50	52.00	-1.00	2.00	0.75	-1.25	0.75	-1.25	0.75	2.43	0.011450	2.90	17.94	8.25	0.63
Cantarena	0.	SEZ 0	Q 200	76.00	-1.00	2.00	0.75	-1.25	0.75	-1.25	1.88	2.91	0.024458	4.24	17.94	8.25	0.92
Cantarena	0.	SEZ 0	Q 500	91.00	-1.00	2.14	0.75	-1.39	0.75	-1.39	2.14	3.30	0.028931	4.77	19.09	8.25	1.00