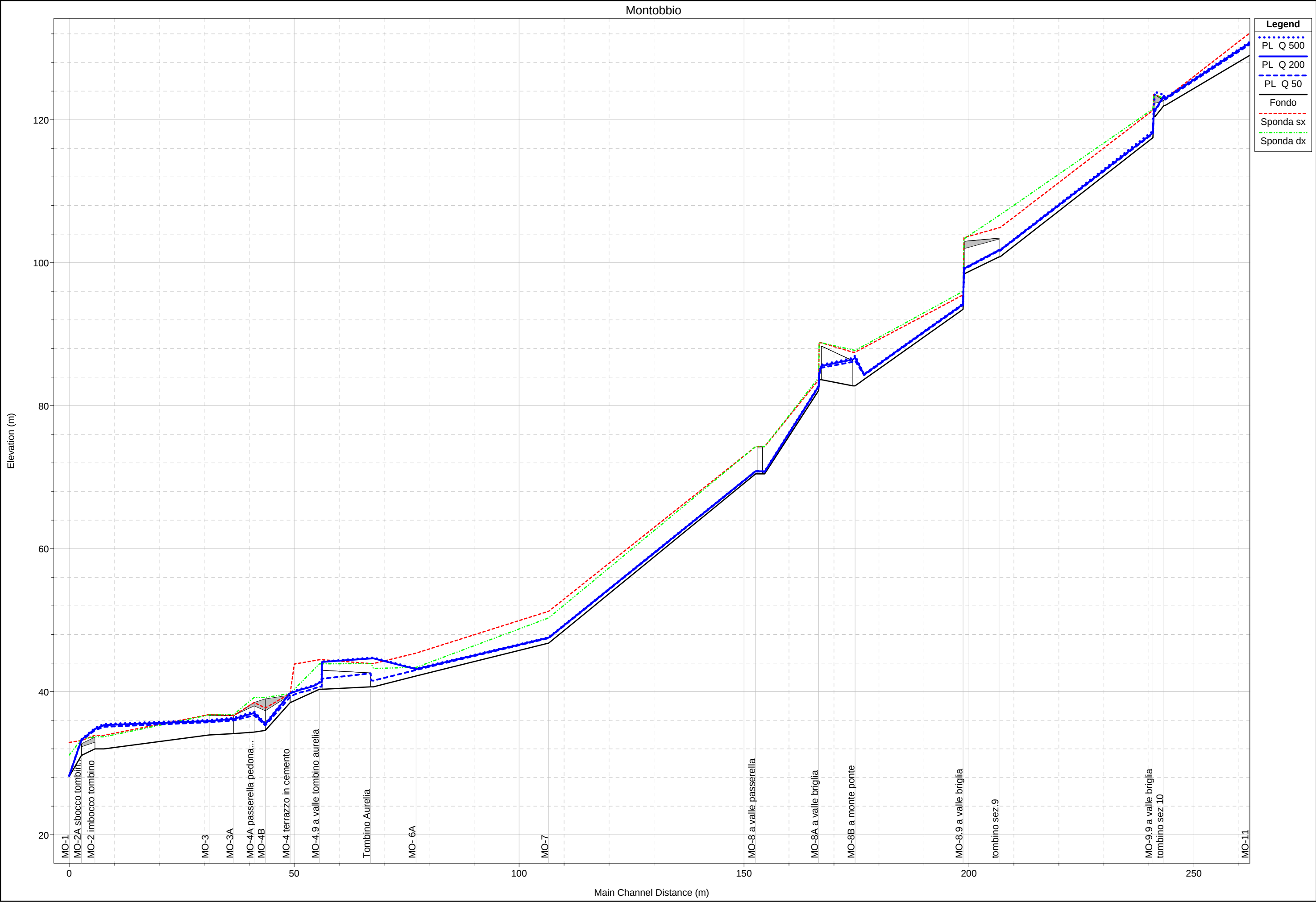
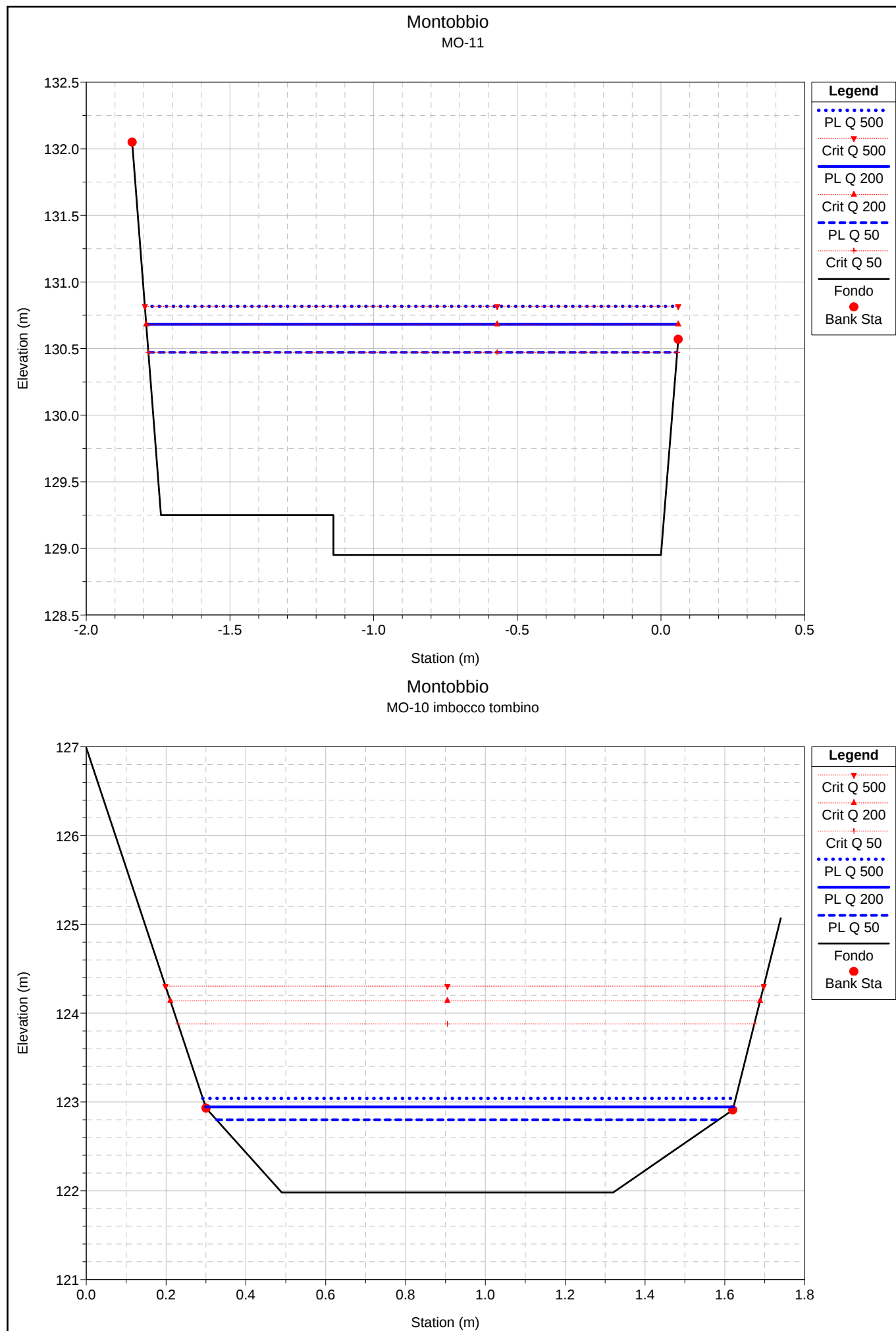


Rio Montobbio

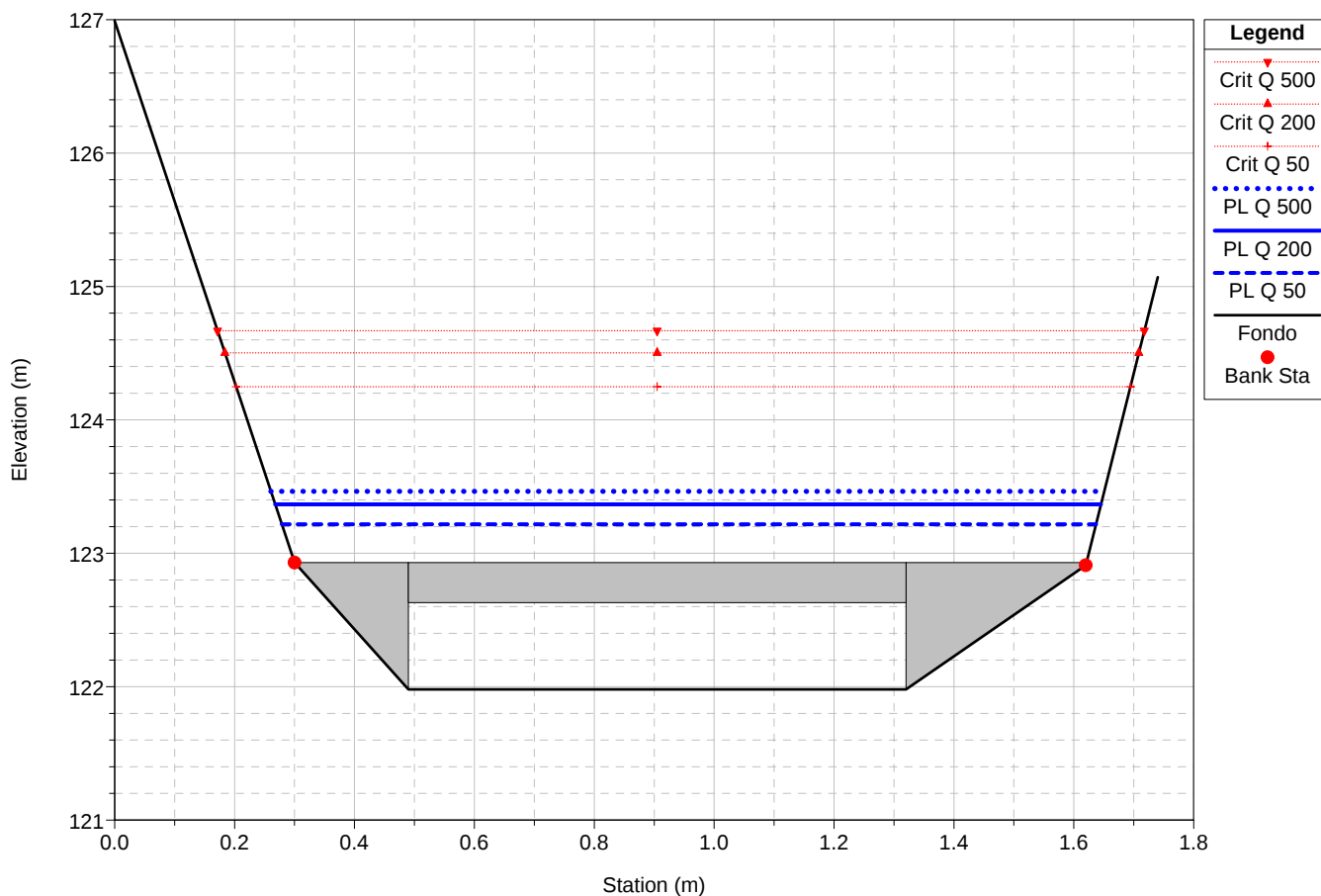
dalla sezione MO11 alla MO1

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati

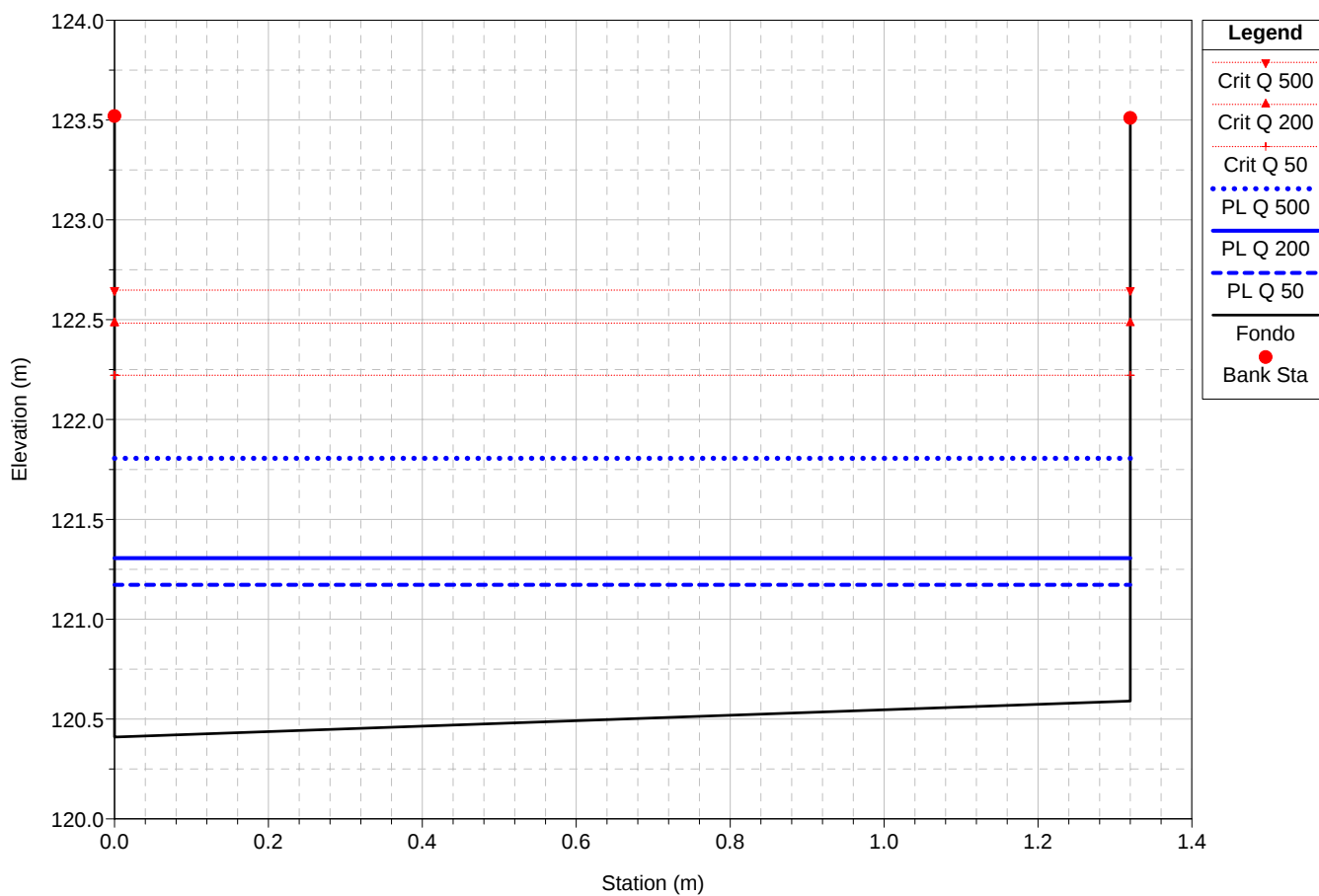


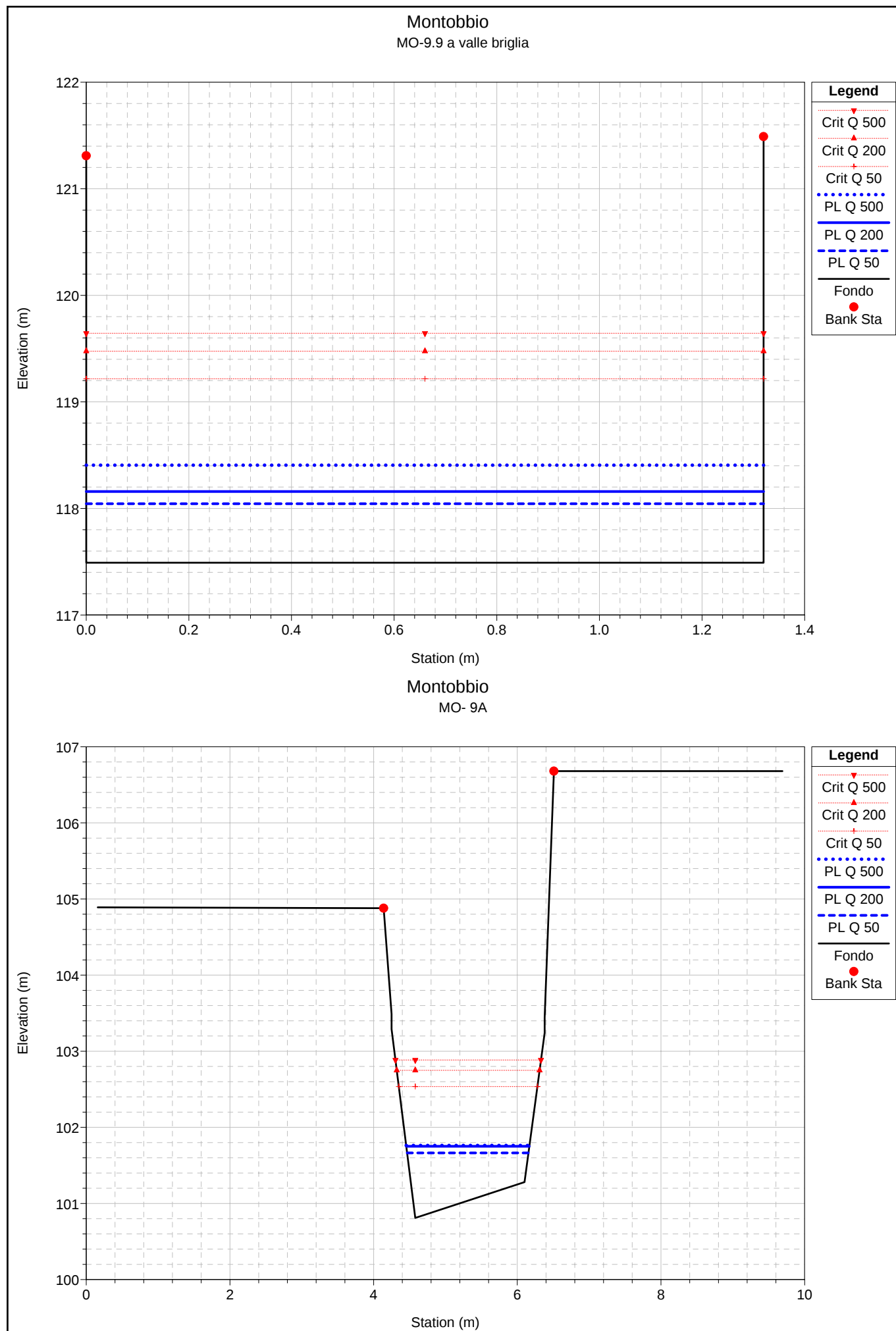


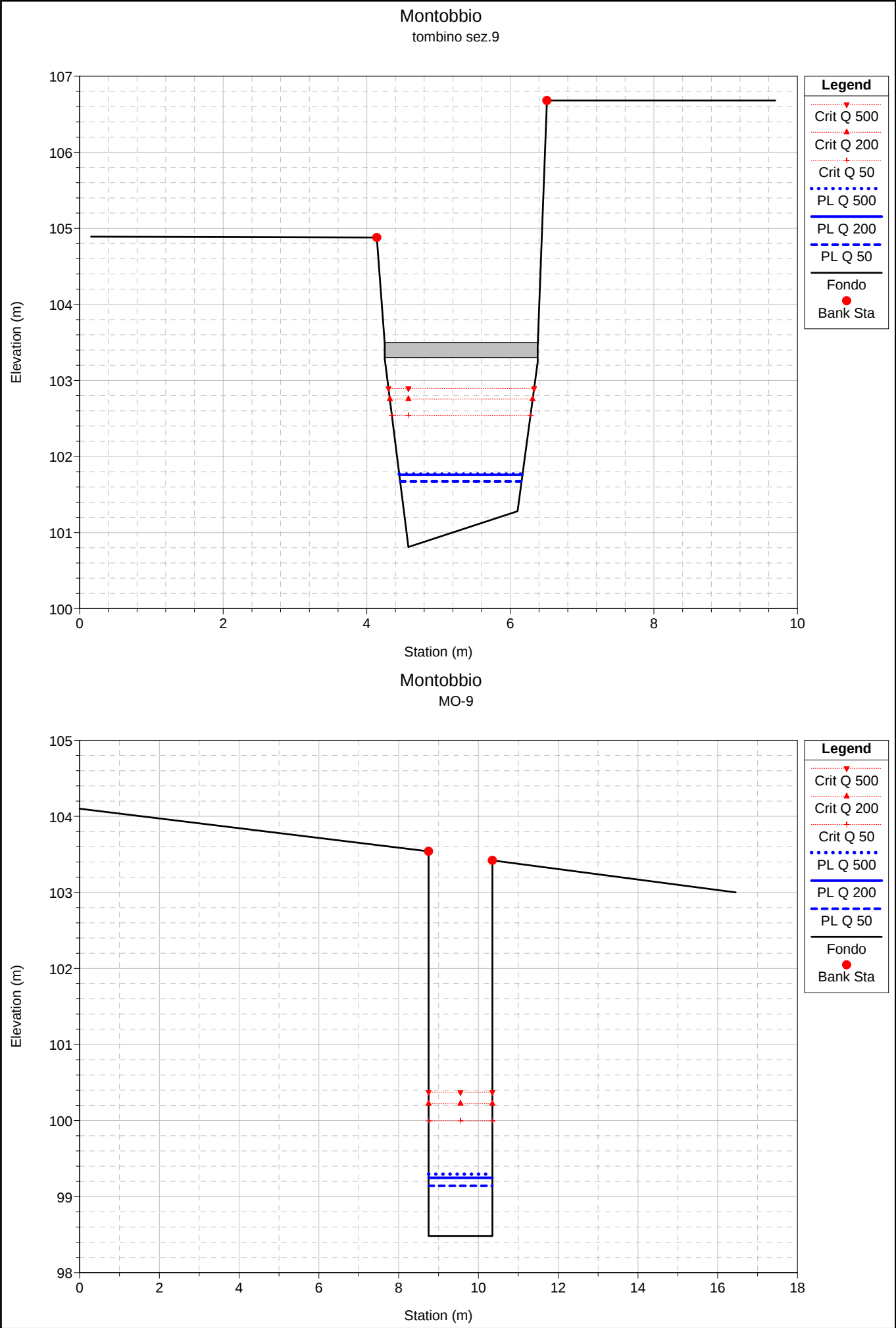
Montobbio
tombino sez 10

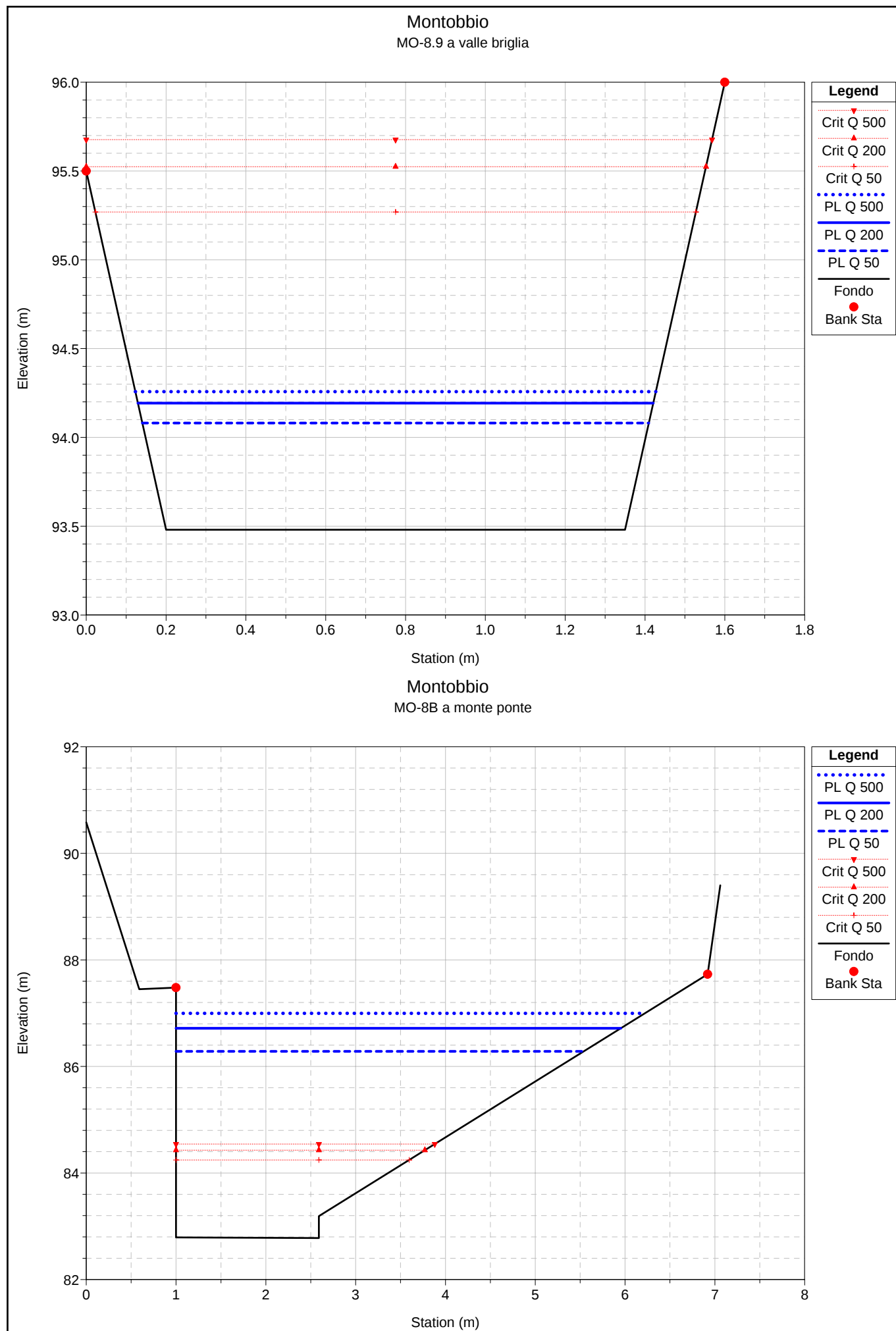


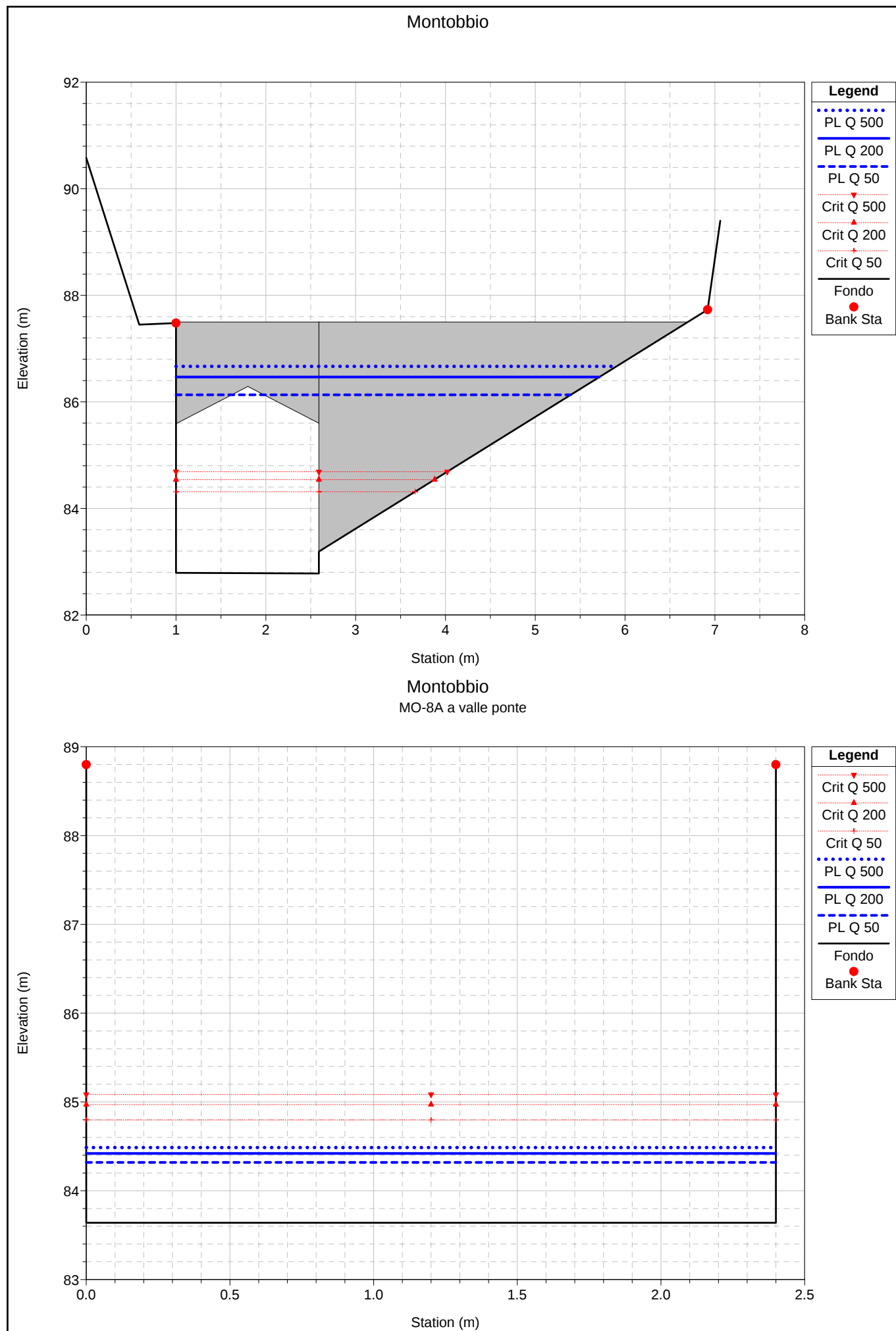
Montobbio
MO-10A sbocco tombino

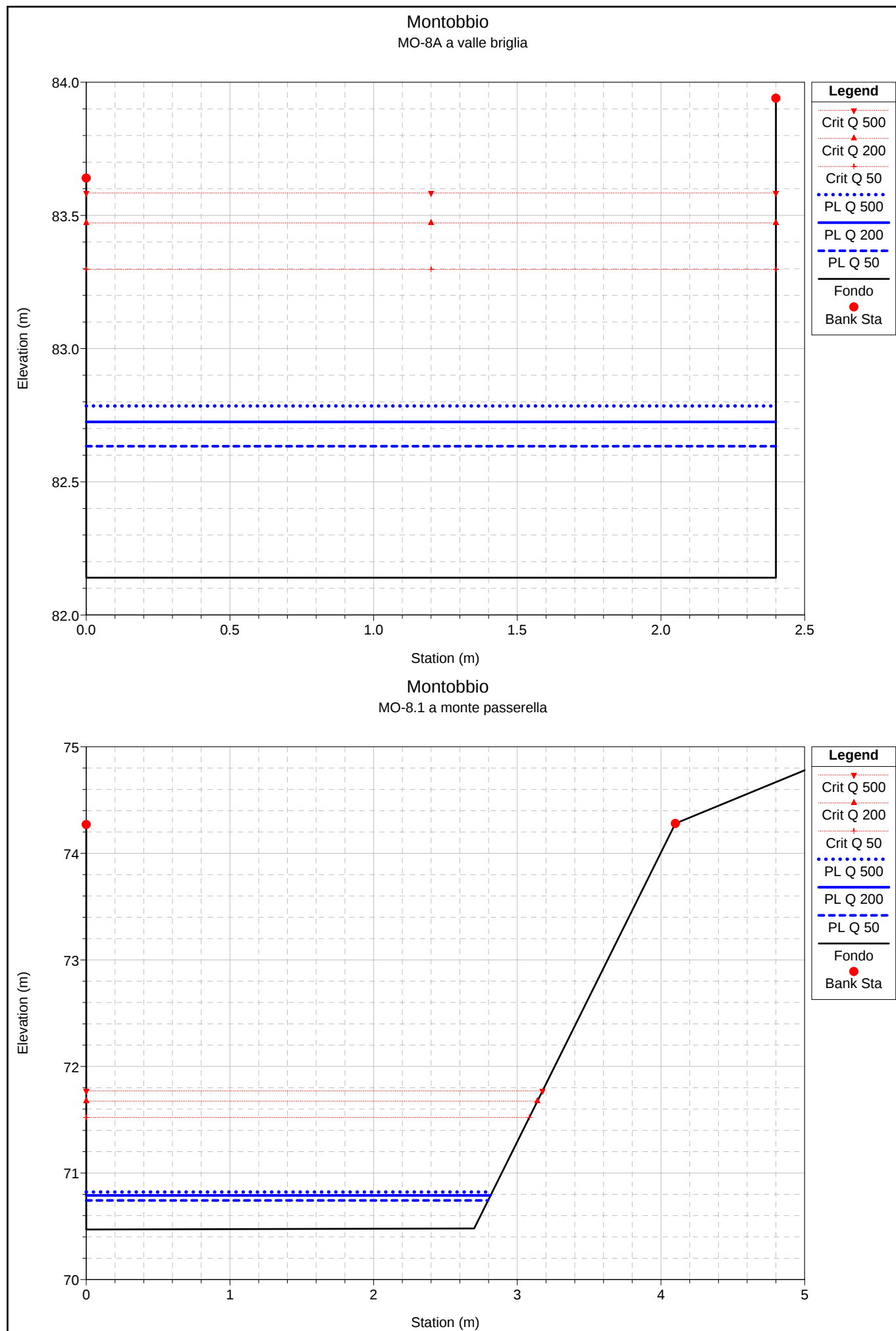


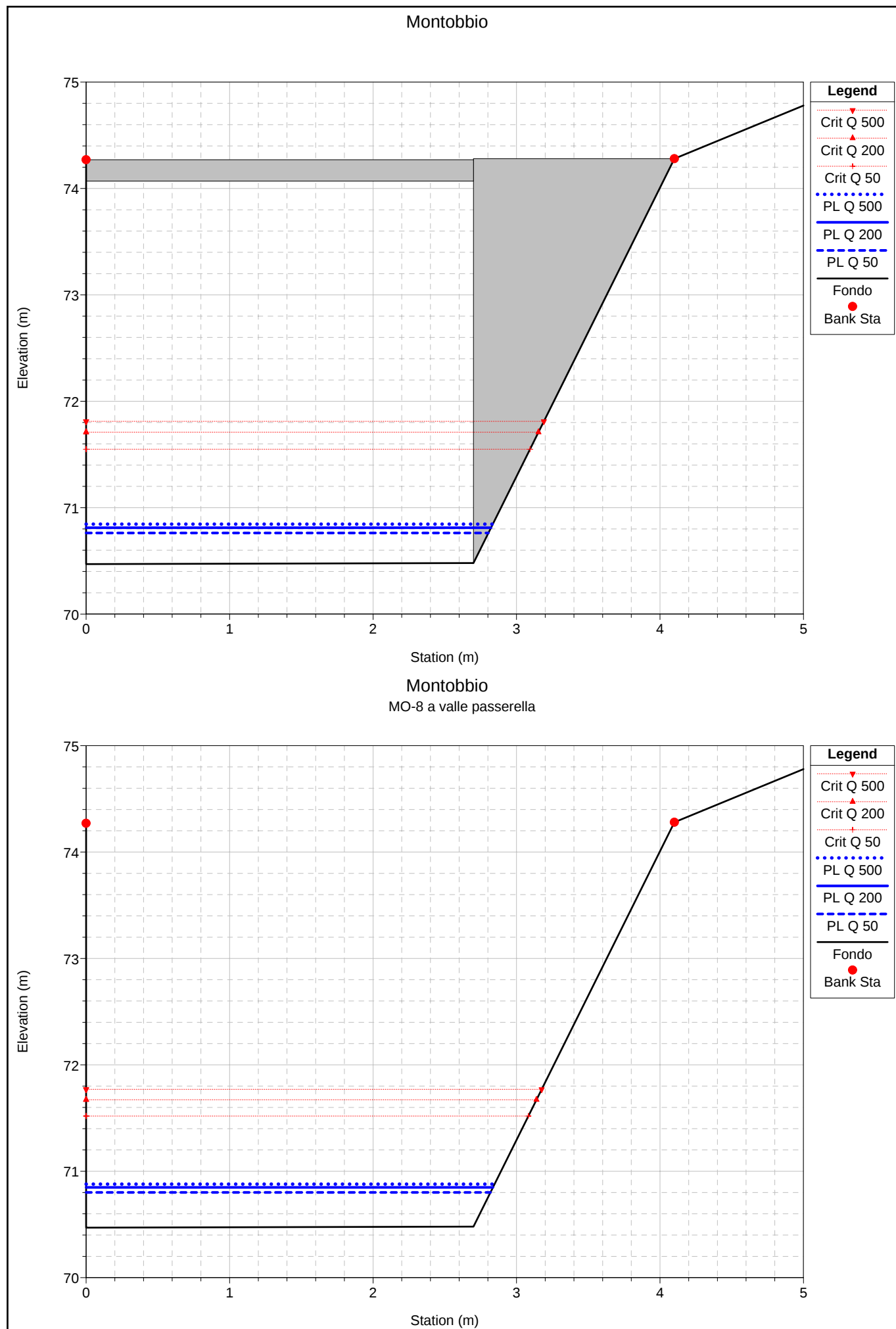


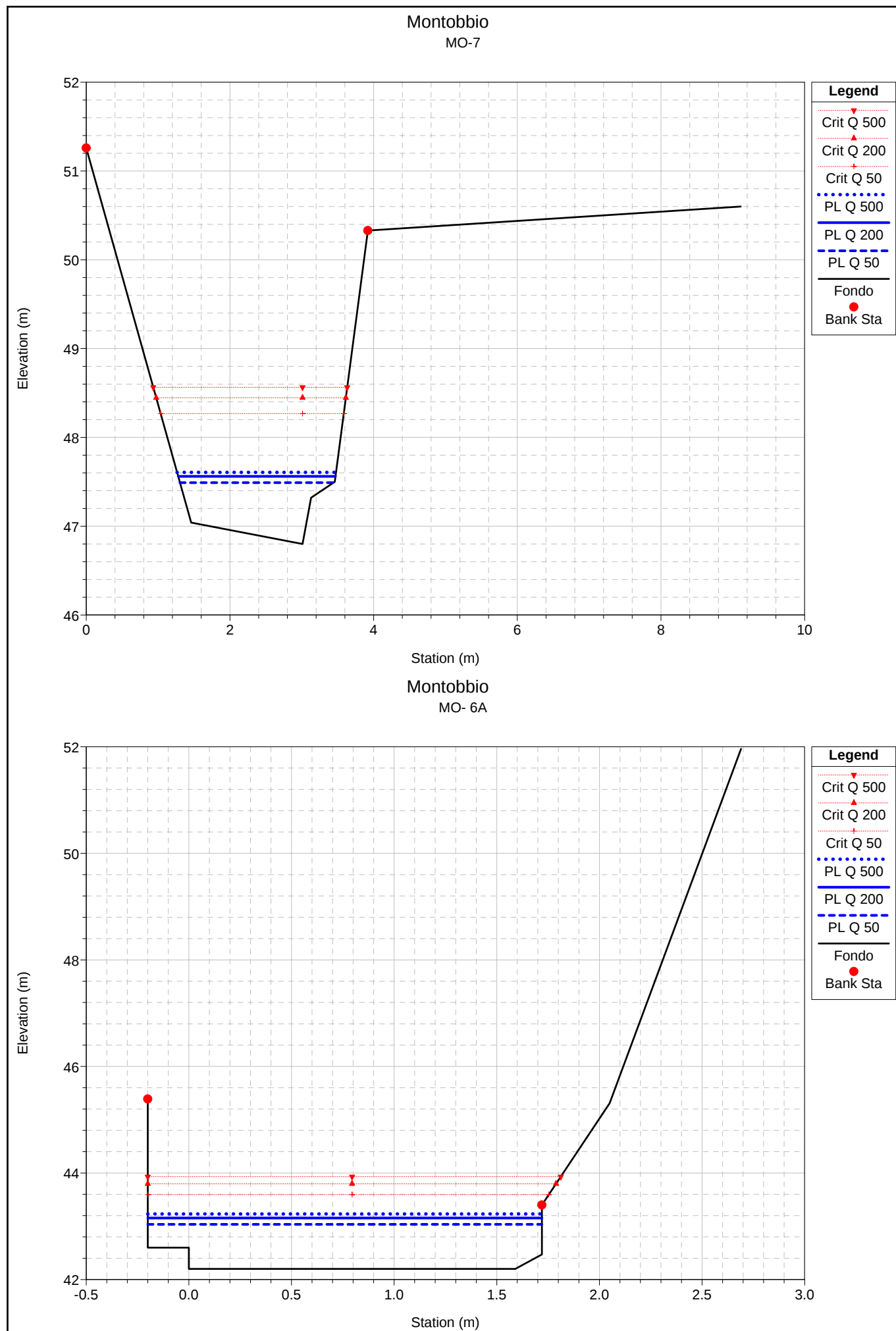


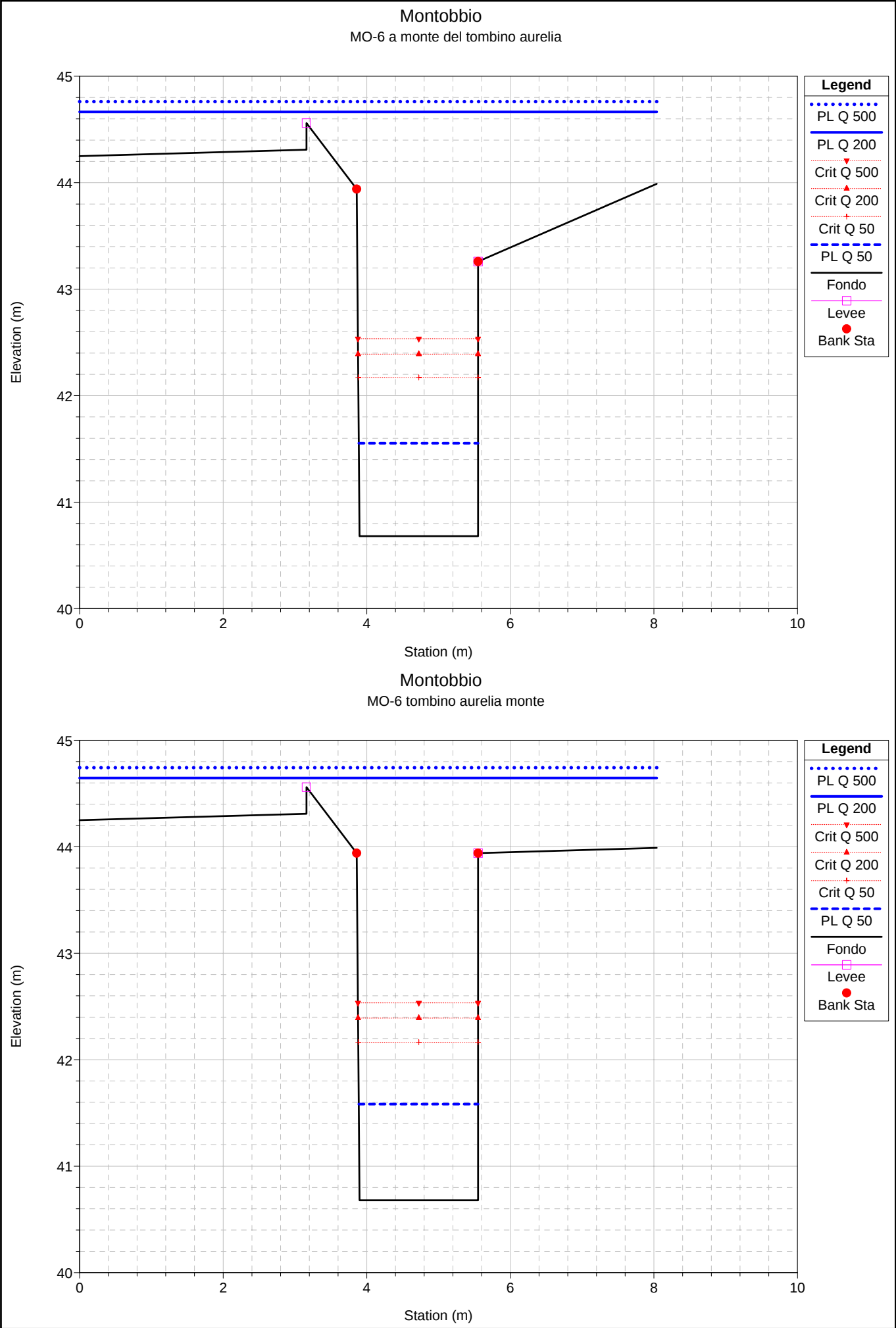


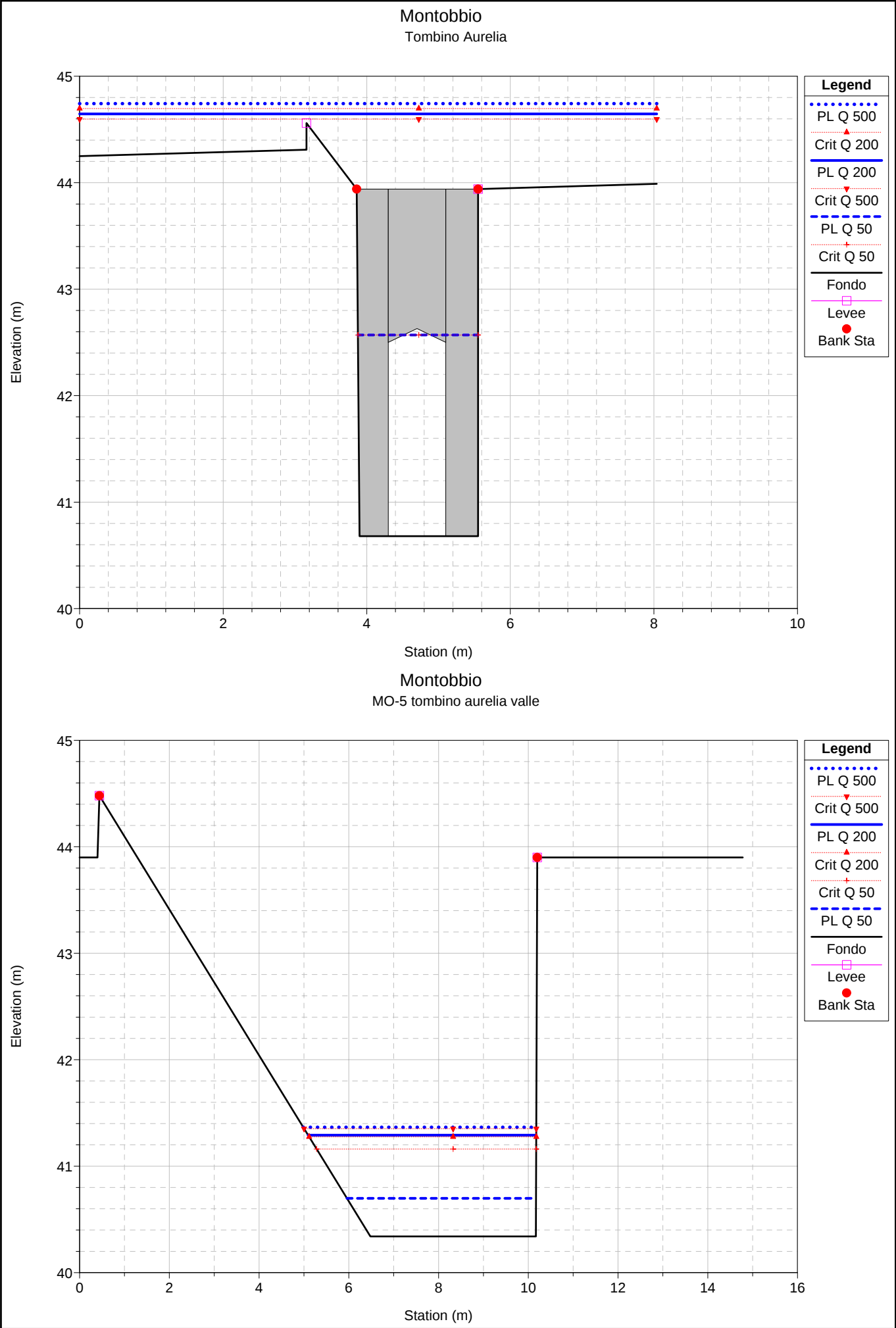


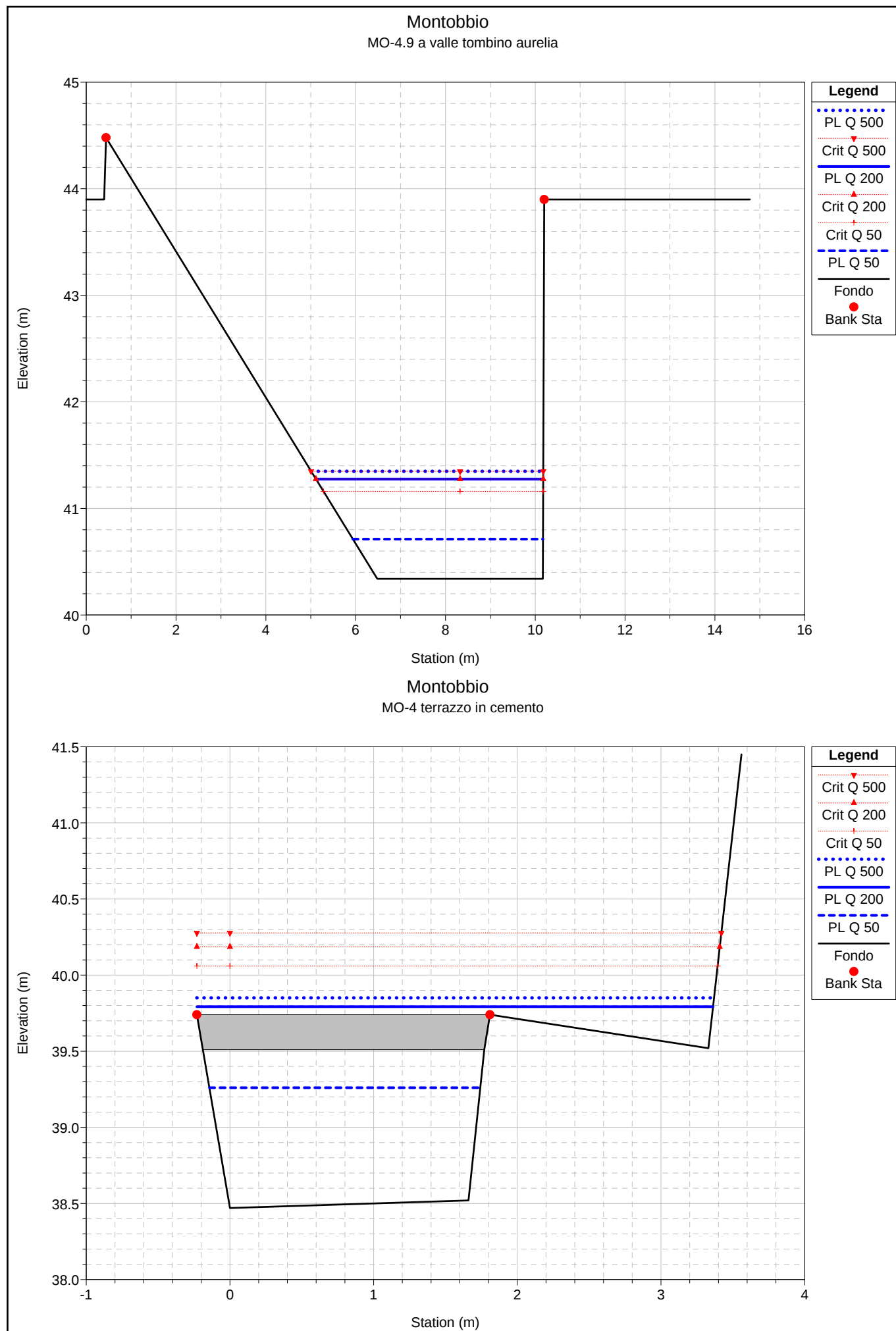


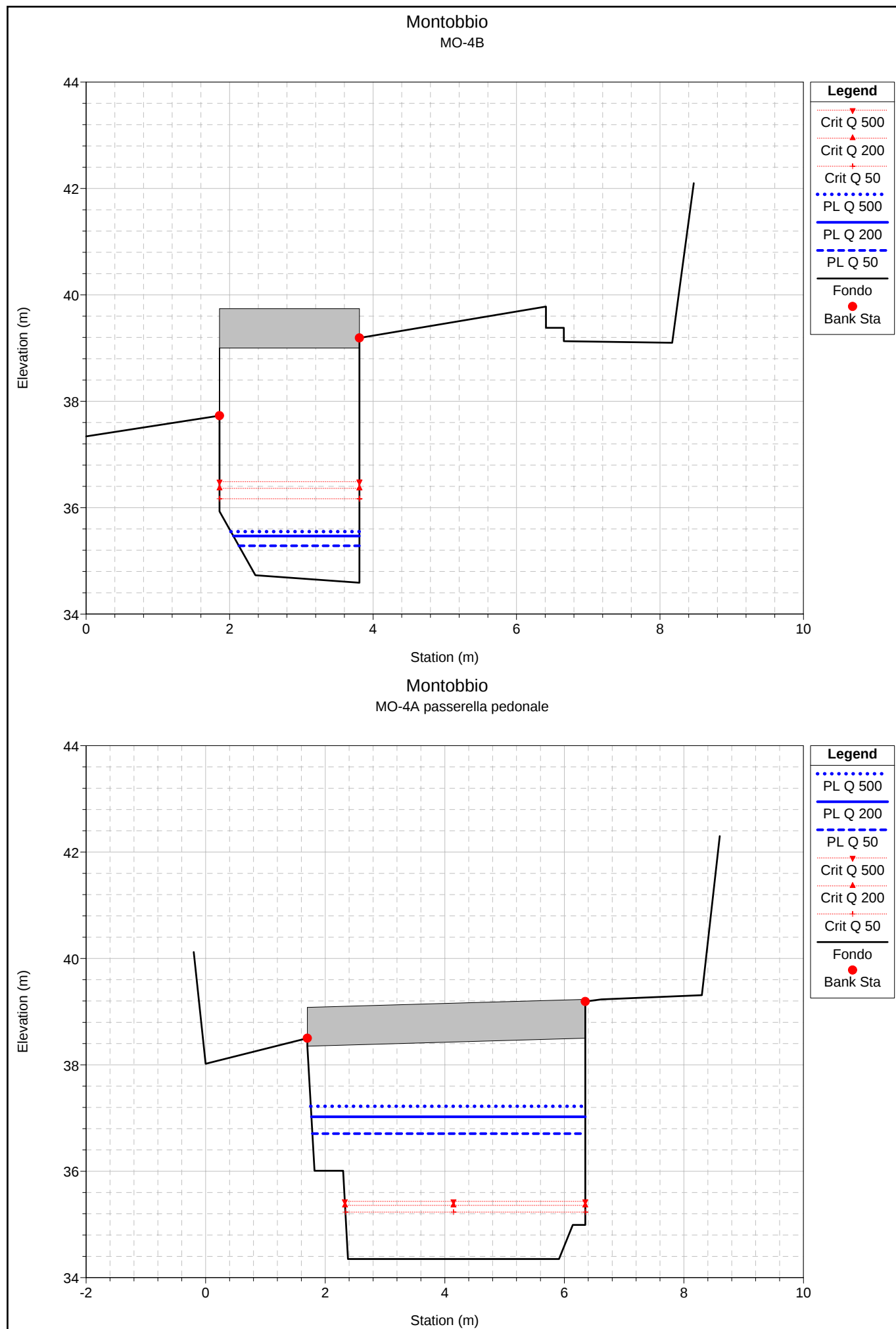


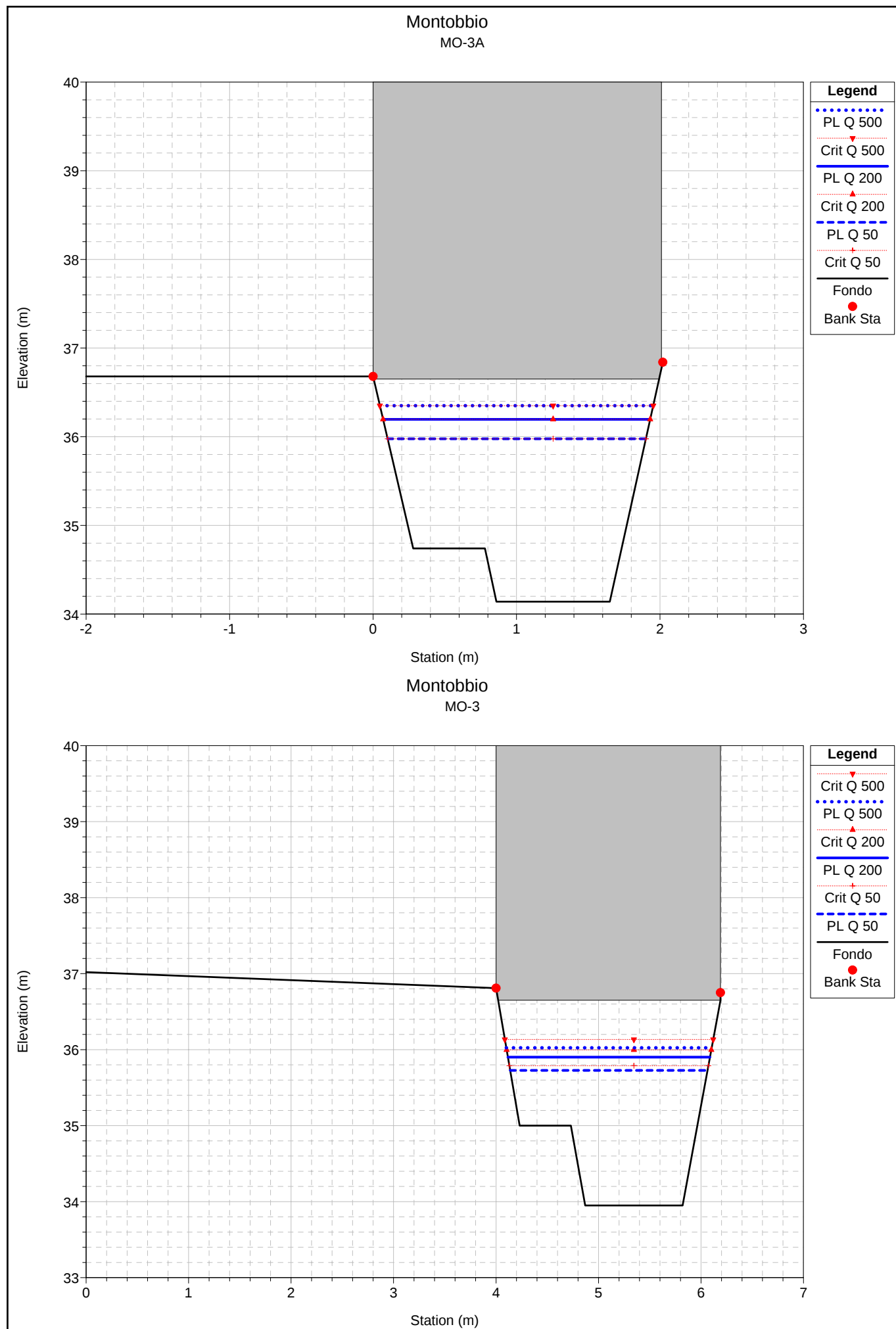


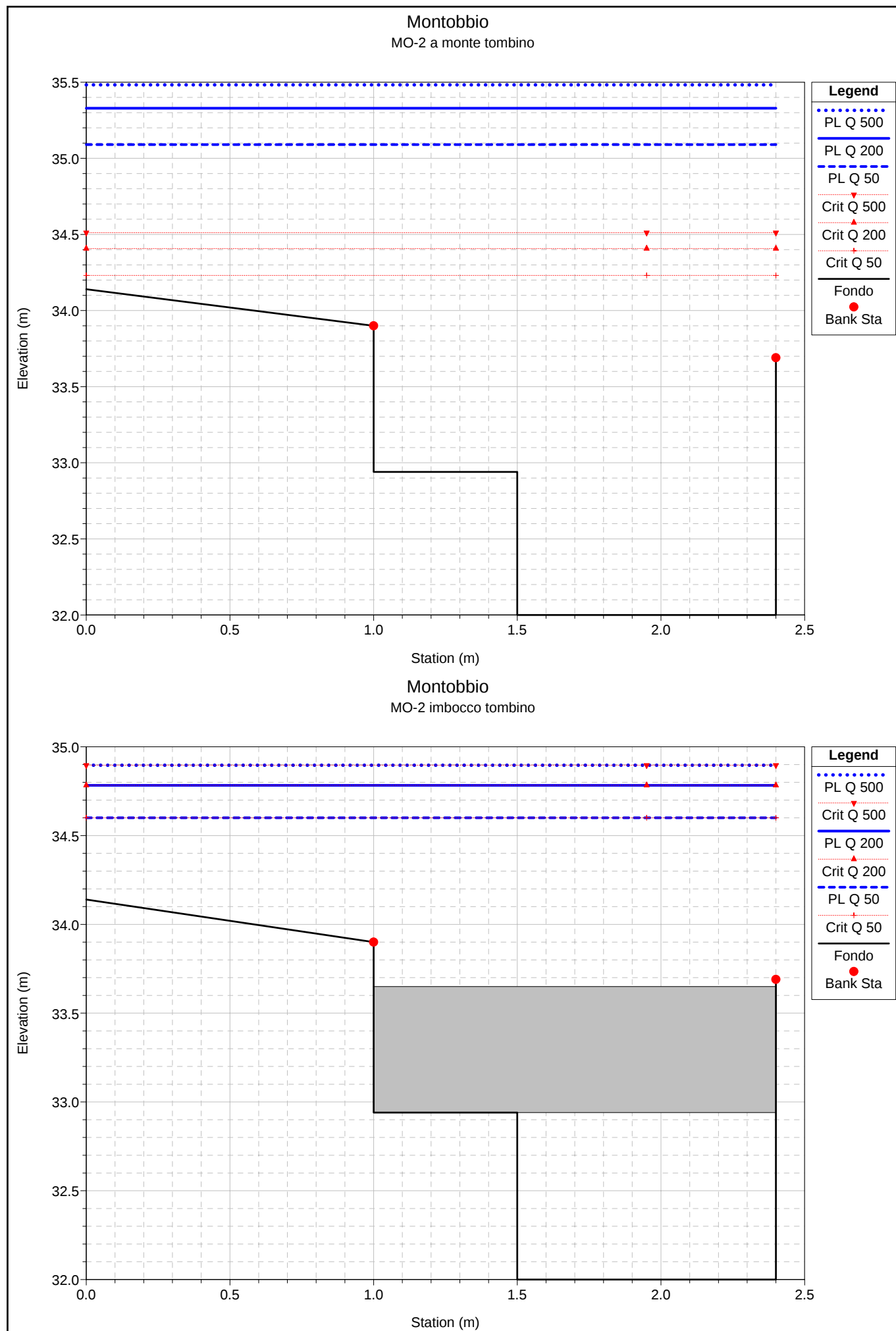


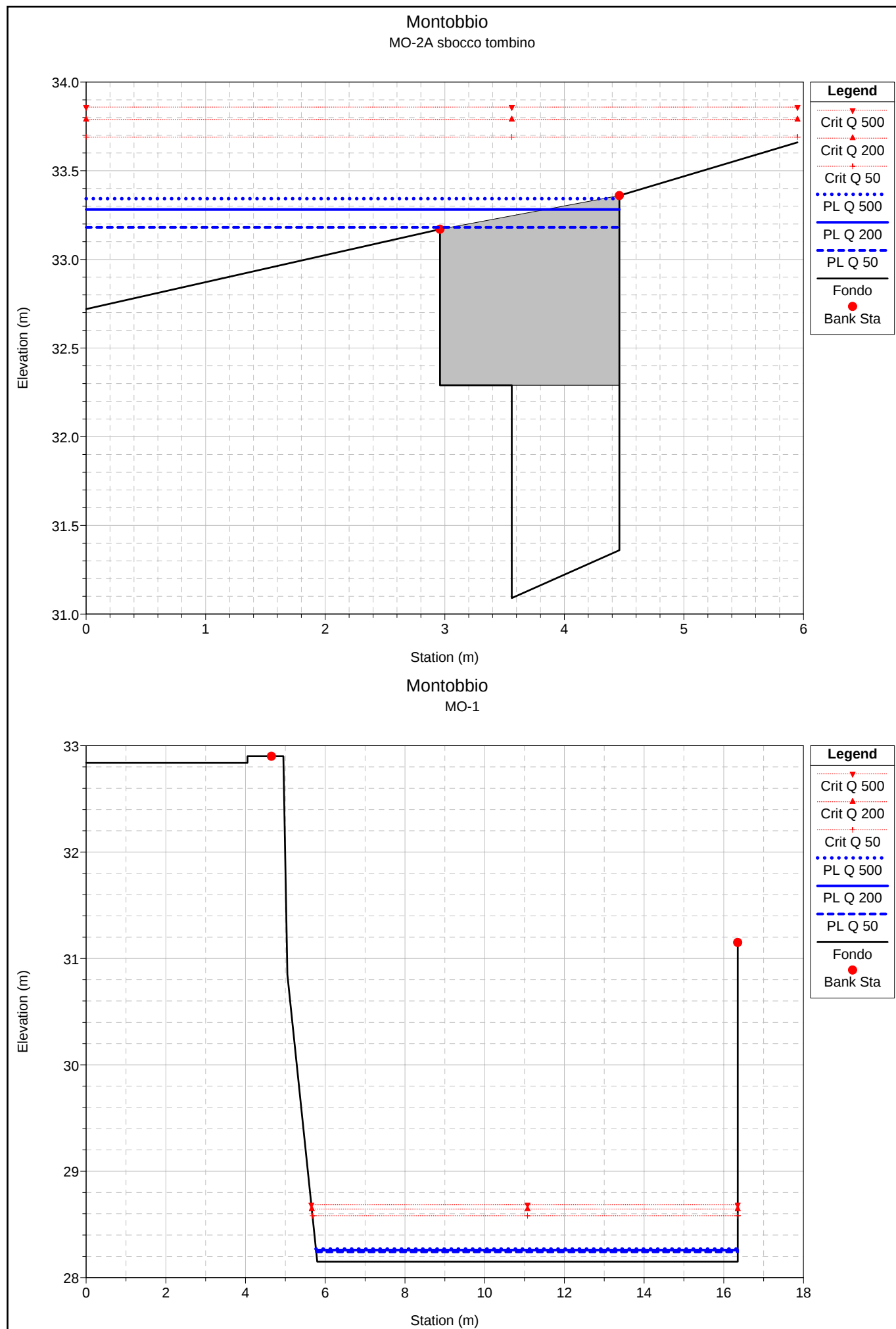












HEC-RAS Plan: montdef River: Montobbio Reach: Montobbio

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
Montobbio	11	Q 50	9.40	128.95	130.47	132.05	1.58	130.57	0.10	130.47	131.17	0.034792	3.70	2.54	1.84	1.01
Montobbio	11	Q 200	11.60	128.95	130.68	132.05	1.37	130.57	-0.11	130.68	131.48	0.036875	3.96	2.93	1.85	1.01
Montobbio	11	Q 500	13.10	128.95	130.82	132.05	1.23	130.57	-0.25	130.82	131.68	0.038296	4.12	3.18	1.86	1.01
Montobbio	10.5	Q 50	9.40	121.98	122.80	122.93	0.13	122.91	0.11	123.88	128.96	0.558258	11.00	0.85	1.26	4.26
Montobbio	10.5	Q 200	11.60	121.98	122.95	122.93	-0.01	122.91	-0.04	124.14	129.23	0.495011	11.11	1.04	1.32	3.99
Montobbio	10.5	Q 500	13.10	121.98	123.04	122.93	-0.11	122.91	-0.13	124.30	129.43	0.432409	11.20	1.17	1.34	3.80
Montobbio	10.2	Bridge														
Montobbio	10	Q 50	9.40	120.41	121.17	123.52	2.35	123.51	2.34	122.22	126.89	0.532674	10.59	0.89	1.32	4.12
Montobbio	10	Q 200	11.60	120.41	121.31	123.52	2.21	123.51	2.20	122.48	127.37	0.503486	10.91	1.06	1.32	3.88
Montobbio	10	Q 500	13.10	120.41	121.81	123.52	1.71	123.51	1.70	122.65	124.75	0.189652	7.60	1.72	1.32	2.12
Montobbio	9.9	Q 50	9.40	117.49	118.04	121.31	3.27	121.49	3.45	119.22	126.47	0.892964	12.86	0.73	1.32	5.52
Montobbio	9.9	Q 200	11.60	117.49	118.16	121.31	3.15	121.49	3.33	119.48	126.97	0.818613	13.15	0.88	1.32	5.13
Montobbio	9.9	Q 500	13.10	117.49	118.41	121.31	2.90	121.49	3.08	119.64	124.38	0.457988	10.83	1.21	1.32	3.61
Montobbio	9.5	Q 50	9.40	100.81	101.66	104.88	3.22	106.68	5.02	102.54	106.16	0.386744	9.40	1.00	1.69	3.90
Montobbio	9.5	Q 200	11.60	100.81	101.75	104.88	3.13	106.68	4.93	102.75	106.95	0.403067	10.10	1.15	1.71	3.94
Montobbio	9.5	Q 500	13.10	100.81	101.76	104.88	3.12	106.68	4.92	102.88	108.19	0.492540	11.23	1.17	1.72	4.35
Montobbio	9.3	Bridge														
Montobbio	9.2	Q 50	9.40	98.48	99.14	103.54	4.40	103.42	4.28	100.00	103.15	0.331926	8.87	1.06	1.60	3.48
Montobbio	9.2	Q 200	11.60	98.48	99.25	103.54	4.29	103.42	4.17	100.22	103.80	0.339780	9.45	1.23	1.60	3.45
Montobbio	9.2	Q 500	13.10	98.48	99.30	103.54	4.24	103.42	4.12	100.37	104.42	0.366754	10.03	1.31	1.60	3.54
Montobbio	8.9	Q 50	9.40	93.48	94.08	95.50	1.42	96.00	1.92	95.27	102.60	0.874818	12.93	0.73	1.27	5.46
Montobbio	8.9	Q 200	11.60	93.48	94.19	95.50	1.31	96.00	1.81	95.52	103.25	0.825748	13.33	0.87	1.29	5.18
Montobbio	8.9	Q 500	13.10	93.48	94.26	95.50	1.24	96.00	1.74	95.68	103.87	0.827534	13.73	0.95	1.30	5.13
Montobbio	8.7	Q 50	9.40	82.78	86.28	87.48	1.20	87.73	1.45	84.24	86.33	0.000895	0.93	10.13	4.54	0.20
Montobbio	8.7	Q 200	11.60	82.78	86.72	87.48	0.76	87.73	1.01	84.43	86.76	0.000842	0.95	12.18	4.95	0.19
Montobbio	8.7	Q 500	13.10	82.78	87.00	87.48	0.48	87.73	0.73	84.54	87.04	0.000803	0.96	13.61	5.22	0.19
Montobbio	8.6	Bridge														
Montobbio	8.5	Q 50	9.40	83.64	84.32	88.80	4.48	88.80	4.48	84.80	86.01	0.110276	5.77	1.63	2.40	2.23
Montobbio	8.5	Q 200	11.60	83.64	84.42	88.80	4.38	88.80	4.38	84.97	86.37	0.113194	6.19	1.87	2.40	2.24
Montobbio	8.5	Q 500	13.10	83.64	84.49	88.80	4.31	88.80	4.31	85.08	86.60	0.115249	6.45	2.03	2.40	2.24
Montobbio	8.4	Q 50	9.40	82.14	82.63	83.64	1.01	83.94	1.31	83.30	85.84	0.278126	7.93	1.18	2.40	3.60
Montobbio	8.4	Q 200	11.60	82.14	82.72	83.64	0.91	83.94	1.22	83.47	86.20	0.257976	8.26	1.40	2.40	3.45
Montobbio	8.4	Q 500	13.10	82.14	82.78	83.64	0.86	83.94	1.16	83.58	86.44	0.248538	8.46	1.55	2.40	3.36
Montobbio	8.1	Q 50	9.40	70.47	70.74	74.27	3.53	74.28	3.54	71.52	79.09	1.298211	12.80	0.73	2.80	7.98
Montobbio	8.1	Q 200	11.60	70.47	70.79	74.27	3.48	74.28	3.49	71.67	79.90	1.178990	13.37	0.87	2.81	7.69

HEC-RAS Plan: montdef River: Montobbio Reach: Montobbio (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
Montobbio	8.1	Q 500	13.10	70.47	70.82	74.27	3.45	74.28	3.46	71.77	80.35	1.110076	13.68	0.96	2.83	7.50
Montobbio	8.05	Bridge														
Montobbio	8	Q 50	9.40	70.47	70.80	74.27	3.47	74.28	3.48	71.52	76.37	0.694534	10.46	0.90	2.82	5.91
Montobbio	8	Q 200	11.60	70.47	70.85	74.27	3.42	74.28	3.43	71.67	77.29	0.693864	11.24	1.03	2.84	5.95
Montobbio	8	Q 500	13.10	70.47	70.88	74.27	3.39	74.28	3.40	71.77	77.84	0.688523	11.69	1.12	2.85	5.95
Montobbio	7	Q 50	9.40	46.80	47.49	51.26	3.77	50.33	2.84	48.27	52.01	0.407597	9.42	1.00	2.14	4.40
Montobbio	7	Q 200	11.60	46.80	47.56	51.26	3.70	50.33	2.77	48.45	52.73	0.411918	10.07	1.15	2.19	4.43
Montobbio	7	Q 500	13.10	46.80	47.61	51.26	3.65	50.33	2.72	48.56	53.20	0.415970	10.48	1.25	2.21	4.45
Montobbio	6.5	Q 50	9.40	42.20	43.04	45.39	2.35	43.40	0.36	43.59	45.01	0.129219	6.23	1.51	1.92	2.24
Montobbio	6.5	Q 200	11.60	42.20	43.15	45.39	2.24	43.40	0.25	43.80	45.43	0.134803	6.68	1.74	1.92	2.24
Montobbio	6.5	Q 500	13.10	42.20	43.23	45.39	2.16	43.40	0.17	43.93	45.70	0.138511	6.96	1.88	1.92	2.24
Montobbio	6.1	Q 50	9.40	40.68	41.55	43.94	2.39	43.26	1.71	42.17	43.71	0.143837	6.50	1.45	1.66	2.22
Montobbio	6.1	Q 200	11.60	40.68	44.67	43.94	-0.73	43.26	-1.41	42.39	44.73	0.002644	1.18	10.77	8.04	0.19
Montobbio	6.1	Q 500	13.10	40.68	44.76	43.94	-0.82	43.26	-1.50	42.53	44.83	0.002777	1.23	11.54	8.04	0.20
Montobbio	6	Q 50	9.40	40.68	41.58	43.94	2.36	43.94	2.36	42.16	43.60	0.131634	6.29	1.49	1.66	2.12
Montobbio	6	Q 200	11.60	40.68	44.65	43.94	-0.71	43.94	-0.71	42.39	44.72	0.003998	1.33	9.77	8.04	0.21
Montobbio	6	Q 500	13.10	40.68	44.74	43.94	-0.80	43.94	-0.80	42.53	44.83	0.004128	1.38	10.55	8.04	0.22
Montobbio	5.5	Bridge														
Montobbio	5	Q 50	9.40	40.34	40.70	44.48	3.78	43.90	3.20	41.16	42.94	0.236409	6.64	1.42	4.22	3.66
Montobbio	5	Q 200	11.60	40.34	41.29	44.48	3.19	43.90	2.61	41.28	41.68	0.014623	2.78	4.18	5.09	0.98
Montobbio	5	Q 500	13.10	40.34	41.37	44.48	3.12	43.90	2.53	41.35	41.79	0.014572	2.88	4.55	5.19	0.98
Montobbio	4.9	Q 50	9.40	40.34	40.71	44.48	3.77	43.90	3.19	41.16	42.78	0.208387	6.37	1.48	4.24	3.45
Montobbio	4.9	Q 200	11.60	40.34	41.28	44.48	3.20	43.90	2.62	41.28	41.68	0.015479	2.83	4.09	5.06	1.01
Montobbio	4.9	Q 500	13.10	40.34	41.35	44.48	3.13	43.90	2.55	41.35	41.79	0.015359	2.93	4.47	5.17	1.01
Montobbio	4.3	Q 50	9.40	38.47	39.26	39.51	0.25	39.51	0.25	40.06	41.70	0.164350	6.92	1.36	1.89	2.60
Montobbio	4.3	Q 200	11.60	38.47	39.79	39.51	-0.28	39.51	-0.28	40.19	41.24	0.204706	5.45	2.19	3.59	1.53
Montobbio	4.3	Q 500	13.10	38.47	39.85	39.51	-0.34	39.51	-0.34	40.28	41.37	0.198663	5.55	2.41	3.60	1.54
Montobbio	4.2	Q 50	9.40	34.59	35.28	37.73	2.45	39.00	3.72	36.17	40.10	0.415104	9.73	0.97	1.68	4.09
Montobbio	4.2	Q 200	11.60	34.59	35.47	37.73	2.26	39.00	3.53	36.36	39.64	0.293096	9.05	1.28	1.76	3.38
Montobbio	4.2	Q 500	13.10	34.59	35.55	37.73	2.18	39.00	3.45	36.49	39.82	0.278308	9.15	1.43	1.79	3.27
Montobbio	4.1	Q 50	9.40	34.35	36.71	38.35	1.64	38.50	1.79	35.23	36.76	0.000948	0.98	9.62	4.57	0.21
Montobbio	4.1	Q 200	11.60	34.35	37.02	38.35	1.33	38.50	1.48	35.36	37.08	0.000992	1.05	11.06	4.58	0.22
Montobbio	4.1	Q 500	13.10	34.35	37.22	38.35	1.13	38.50	1.28	35.43	37.28	0.001026	1.09	11.97	4.59	0.22
Montobbio	3.1	Q 50	9.40	34.14	35.98	36.65	0.67	36.65	0.67	35.98	36.68	0.037120	3.71	2.53	1.80	1.00
Montobbio	3.1	Q 200	11.60	34.14	36.20	36.65	0.45	36.65	0.45	36.20	36.99	0.038693	3.95	2.94	1.86	1.00

HEC-RAS Plan: montdef River: Montobbio Reach: Montobbio (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
Montobbio	3.1	Q 500	13.10	34.14	36.35	36.65	0.30	36.65	0.30	36.35	37.19	0.038836	4.06	3.23	1.91	1.00
Montobbio	3	Q 50	9.40	33.95	35.73	36.65	0.92	36.65	0.92	35.79	36.46	0.040416	3.80	2.48	1.93	1.07
Montobbio	3	Q 200	11.60	33.95	35.90	36.65	0.75	36.65	0.75	36.00	36.77	0.043859	4.12	2.82	1.97	1.10
Montobbio	3	Q 500	13.10	33.95	36.02	36.65	0.63	36.65	0.63	36.13	36.96	0.045033	4.28	3.06	2.00	1.11
Montobbio	2.2	Q 50	9.40	32.00	35.09	33.90	-1.19	33.69	-1.40	34.23	35.28	0.007699	1.90	4.93	2.40	0.37
Montobbio	2.2	Q 200	11.60	32.00	35.33	33.90	-1.43	33.69	-1.64	34.41	35.56	0.008714	2.08	5.50	2.40	0.38
Montobbio	2.2	Q 500	13.10	32.00	35.48	33.90	-1.58	33.69	-1.79	34.51	35.74	0.009350	2.20	5.87	2.40	0.40
Montobbio	2.1	Q 50	9.40	32.00	34.60	32.94	-1.66	32.94	-1.66	34.60	35.20	0.048092	3.28	2.76	2.40	0.67
Montobbio	2.1	Q 200	11.60	32.00	34.78	32.94	-1.84	32.94	-1.84	34.78	35.48	0.047023	3.43	3.20	2.40	0.69
Montobbio	2.1	Q 500	13.10	32.00	34.90	32.94	-1.96	32.94	-1.96	34.90	35.65	0.047068	3.53	3.47	2.40	0.71
Montobbio	2	Q 50	9.40	31.09	33.18	32.29	-0.89	32.29	-0.89	33.69	34.82	0.241767	5.70	1.66	3.04	1.30
Montobbio	2	Q 200	11.60	31.09	33.28	32.29	-0.99	32.29	-0.99	33.79	35.10	0.216194	4.94	2.01	3.84	1.29
Montobbio	2	Q 500	13.10	31.09	33.34	32.29	-1.05	32.29	-1.05	33.86	35.28	0.193688	4.58	2.25	4.32	1.28
Montobbio	1	Q 50	9.40	28.15	28.24	32.90	4.66	31.15	2.91	28.58	32.99	2.493485	9.66	0.97	10.58	10.16
Montobbio	1	Q 200	11.60	28.15	28.26	32.90	4.64	31.15	2.89	28.64	33.41	2.166357	10.06	1.15	10.58	9.72
Montobbio	1	Q 500	13.10	28.15	28.27	32.90	4.63	31.15	2.88	28.69	33.71	2.020307	10.33	1.27	10.58	9.53