

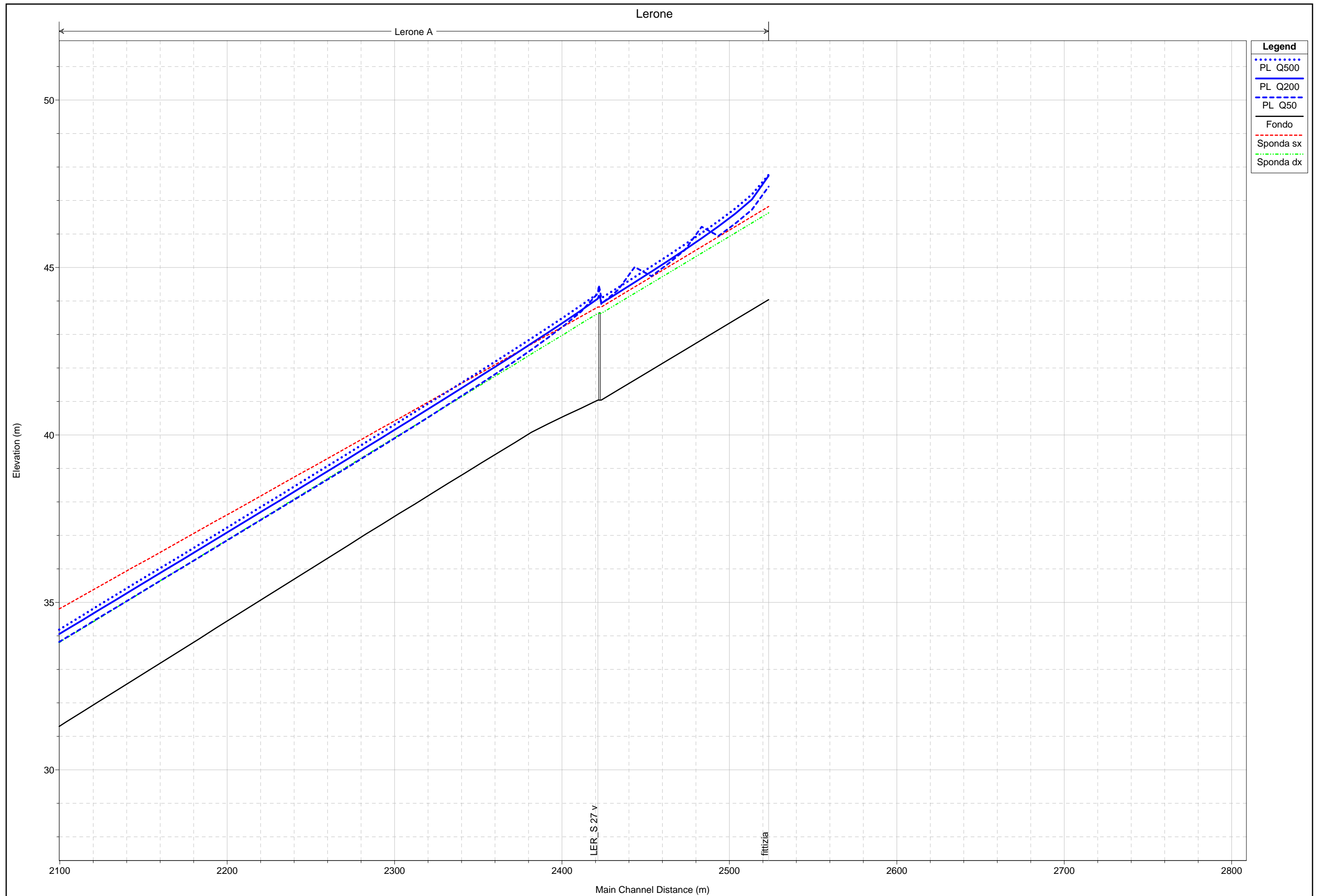
# Rio Lerone

Asta principale: dalla sezione LER\_S27 alla LER\_S1

Rio Lisolo: dalla sezione LIS\_S4 alla LIS\_S1

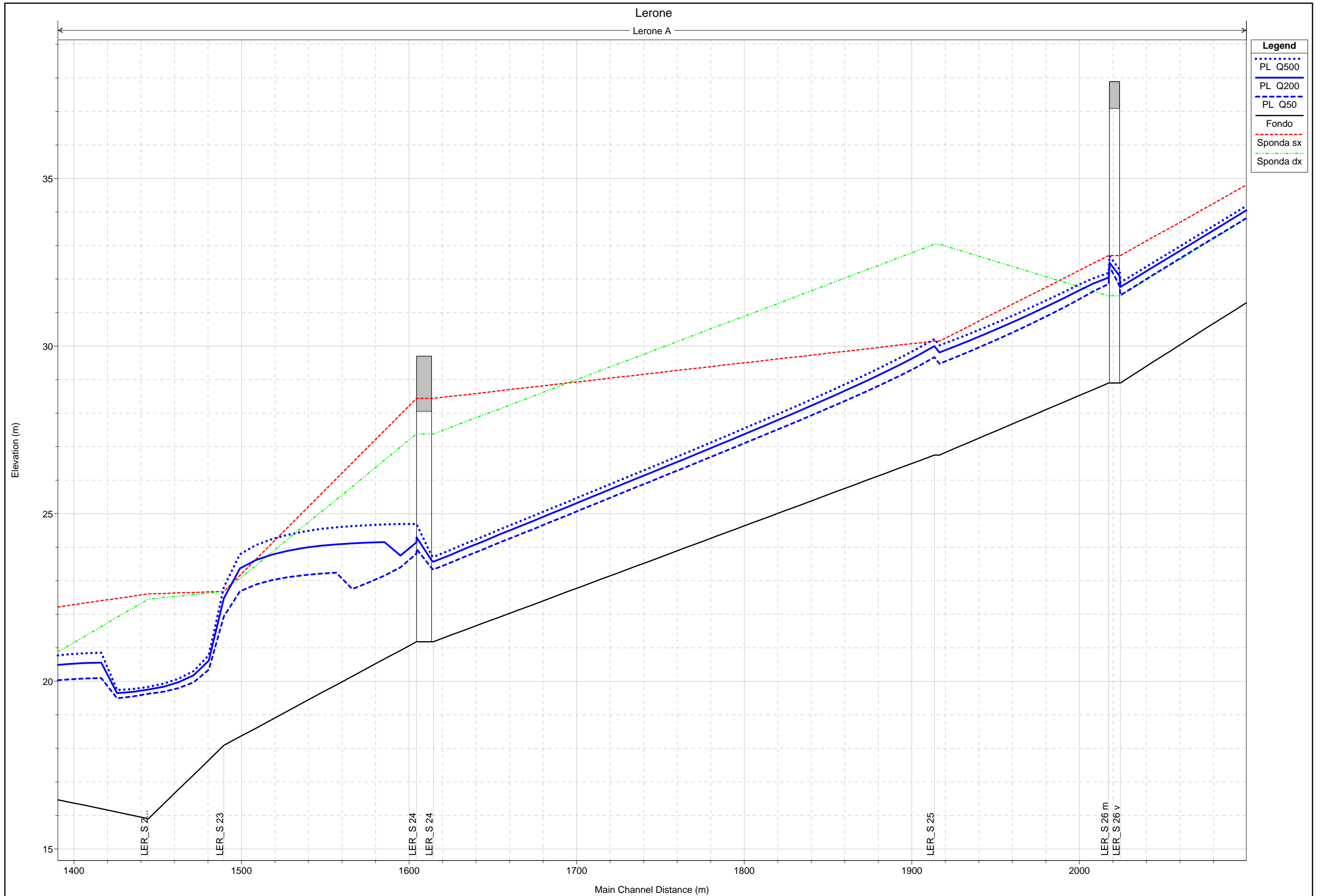
Rio Loaga: dalla sezione LOA\_S10 alla LOA\_S1

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati



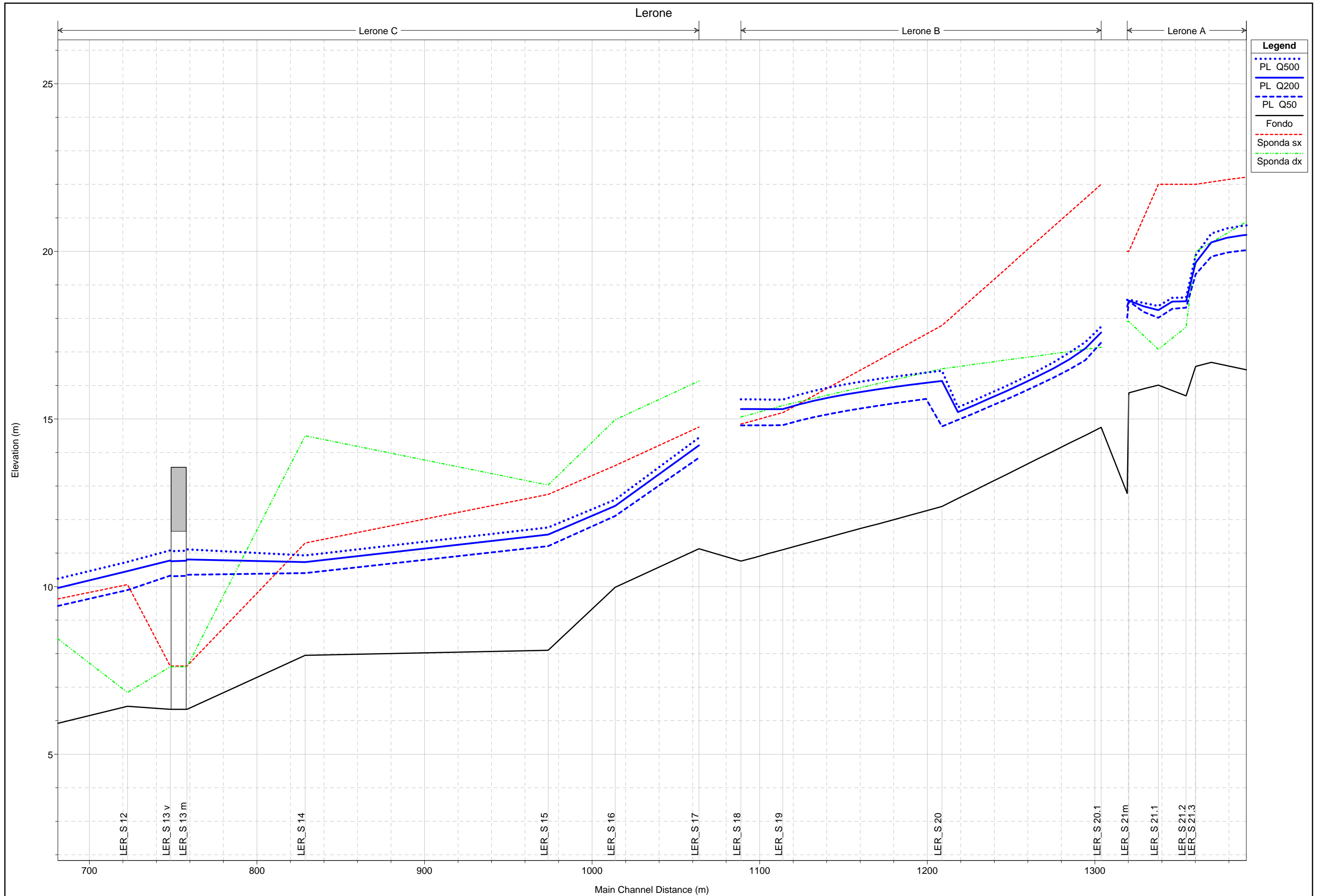
1 cm Horiz. = 20 m 1 cm Vert. = 1 m

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



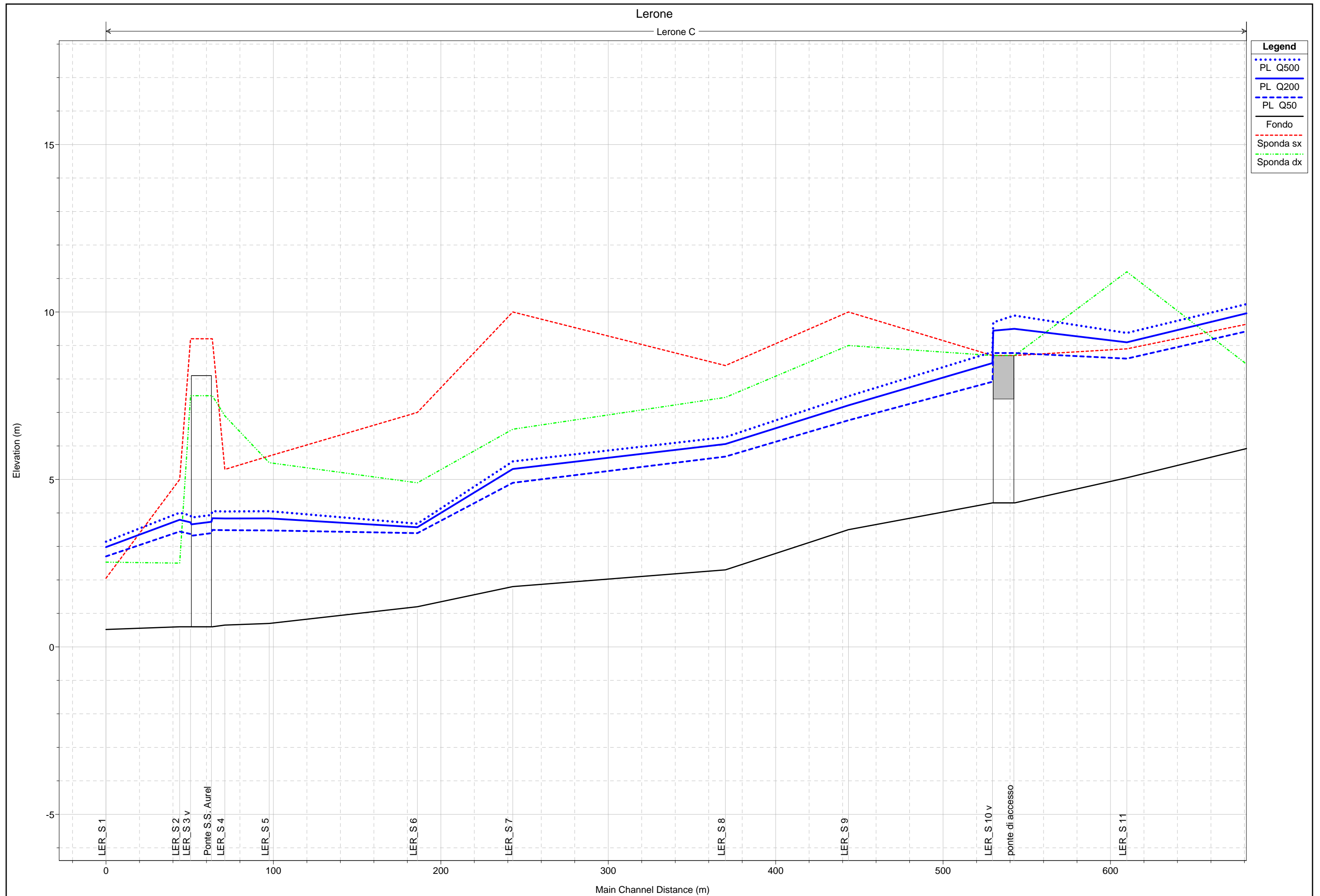
1 cm Horiz. = 20 m 1 cm Vert. = 1 m

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

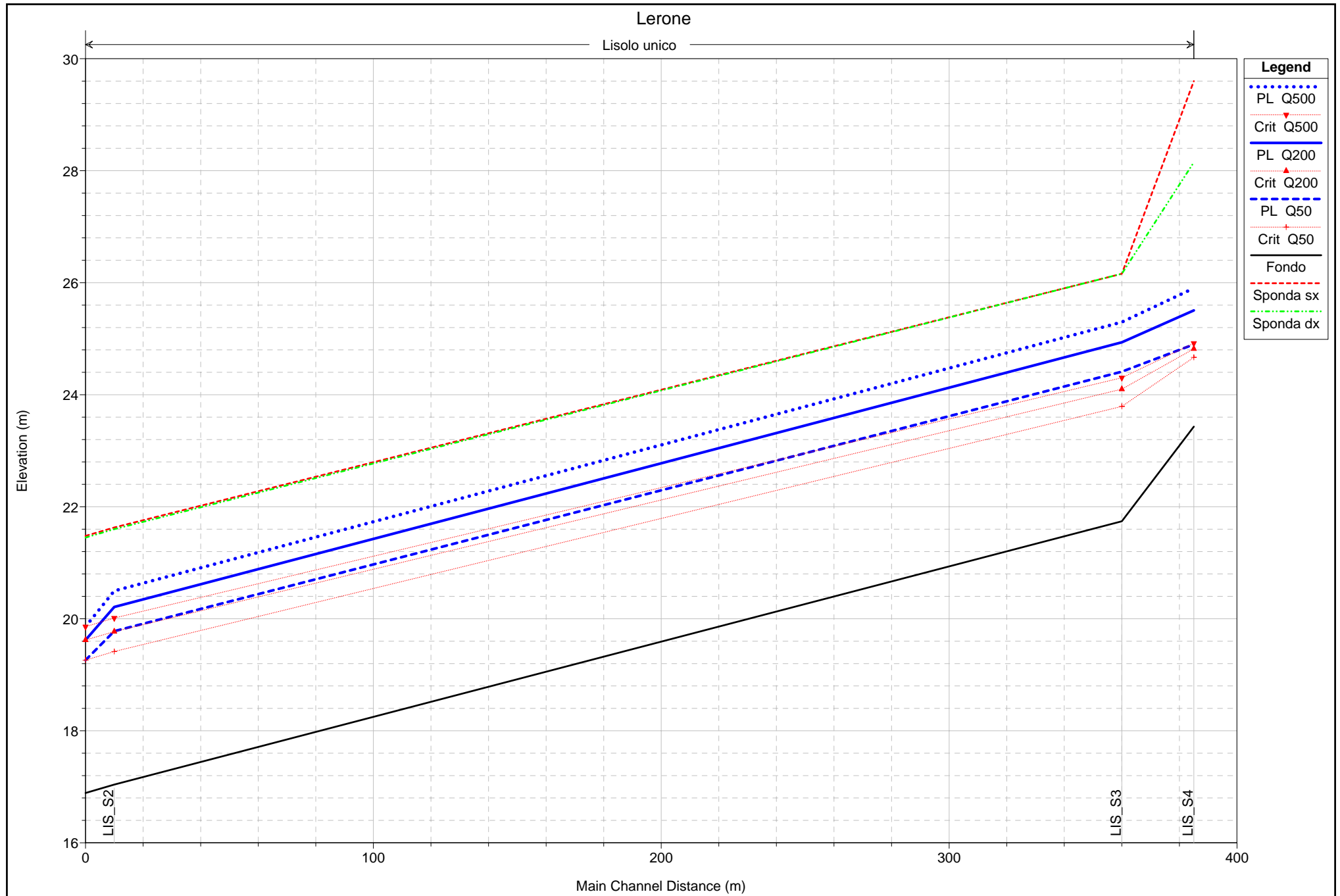


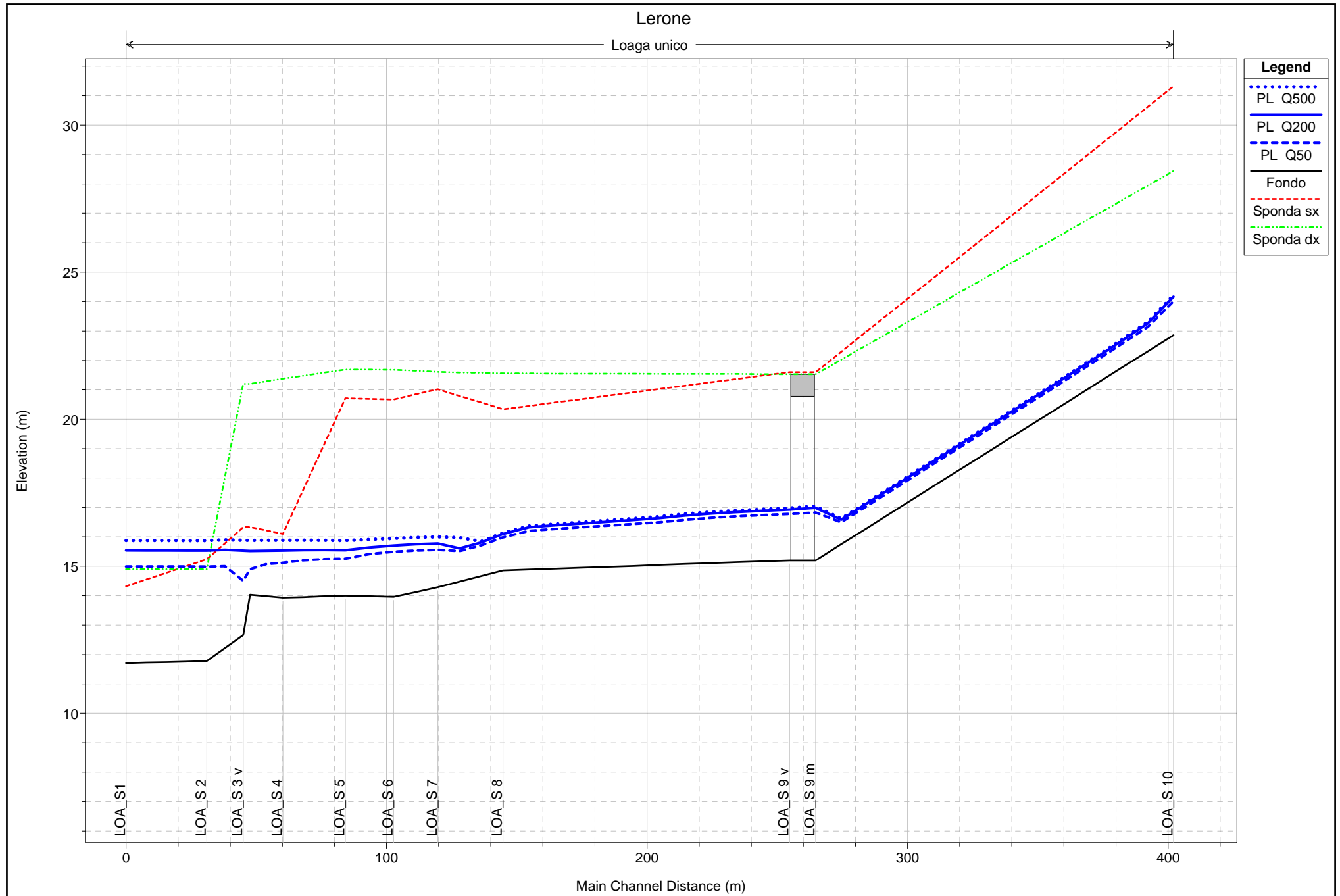
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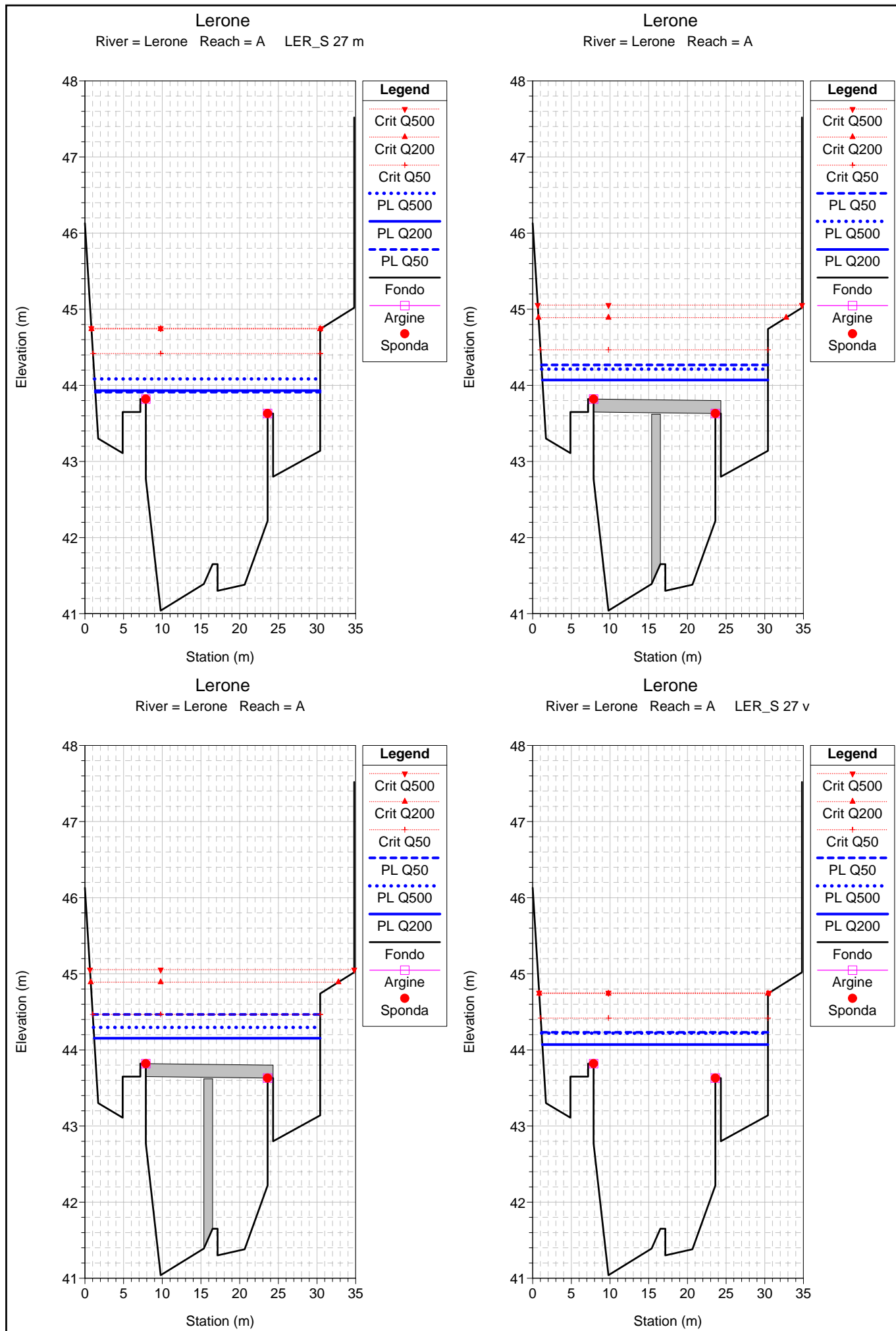
Approvato con D.C.P. n. 28 del 28-03-2007



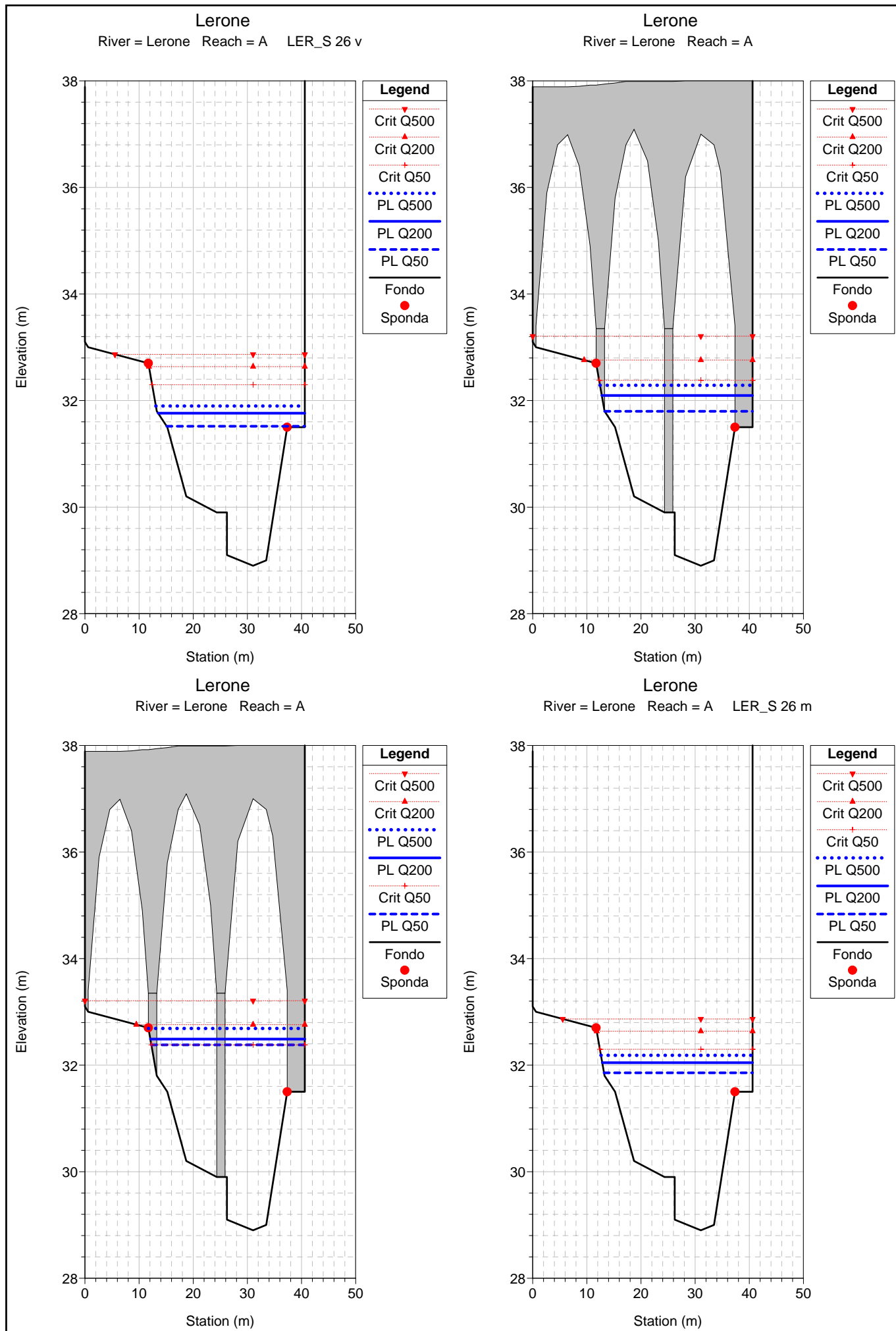
1 cm Horiz. = 20 m 1 cm Vert. = 1 m

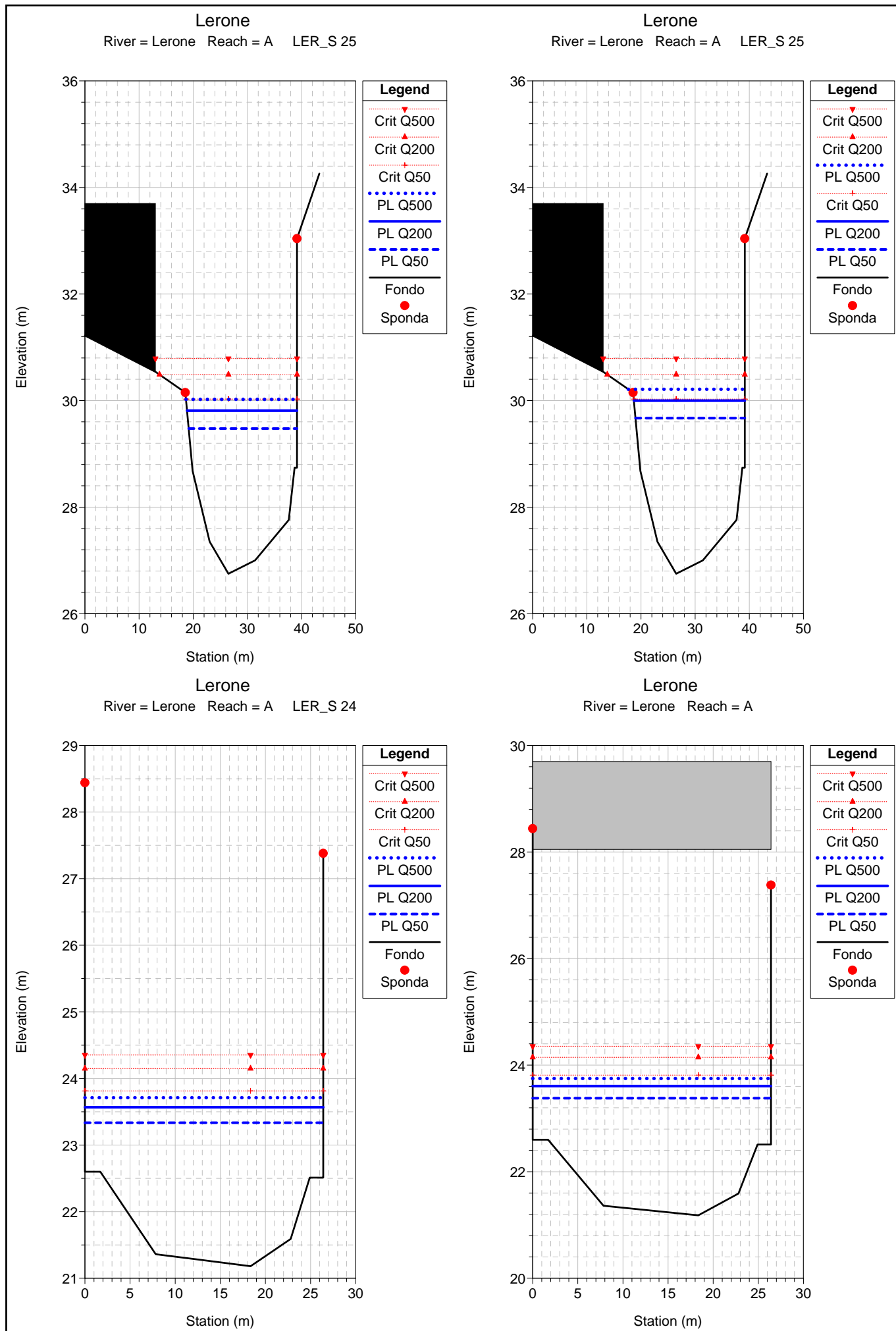


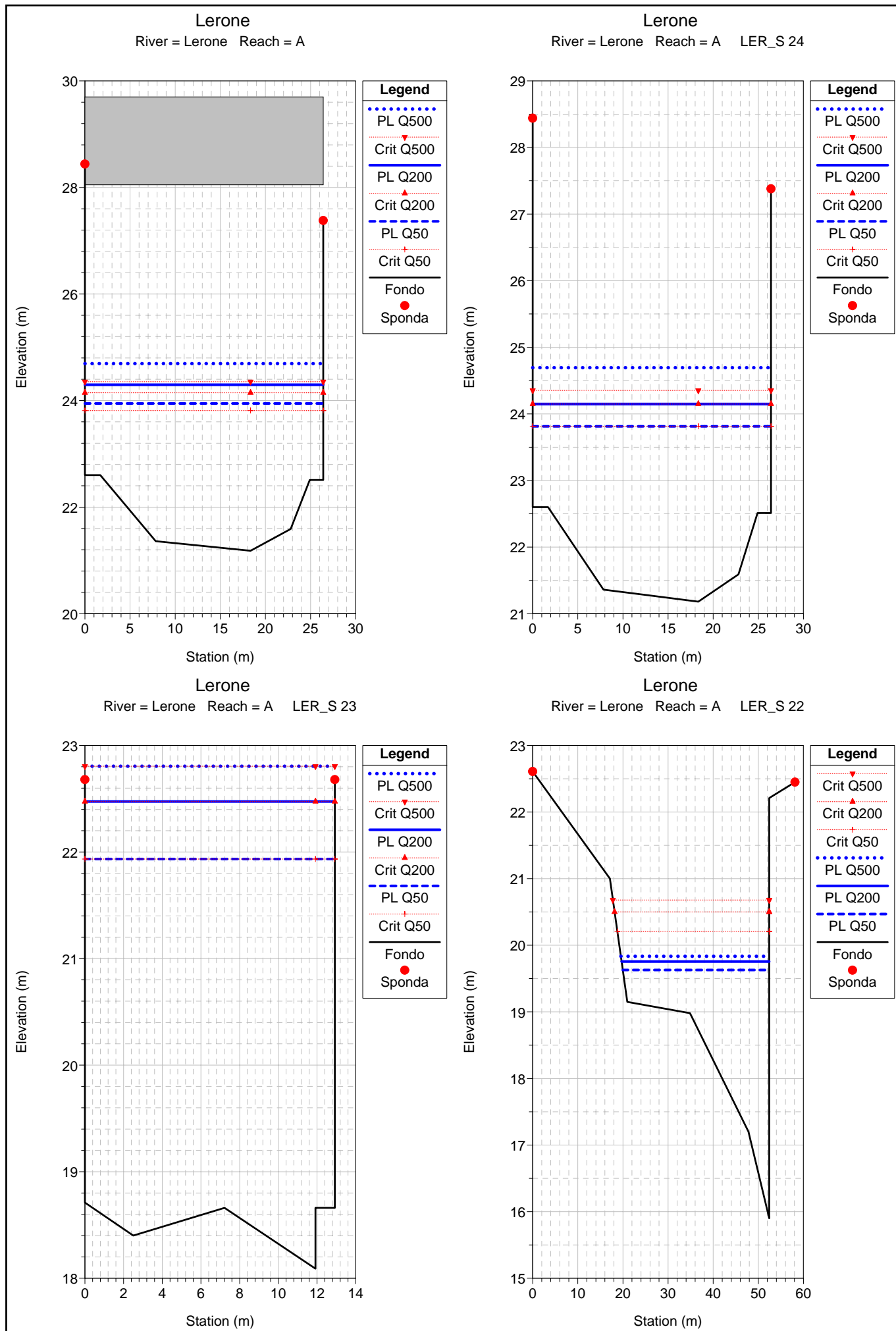


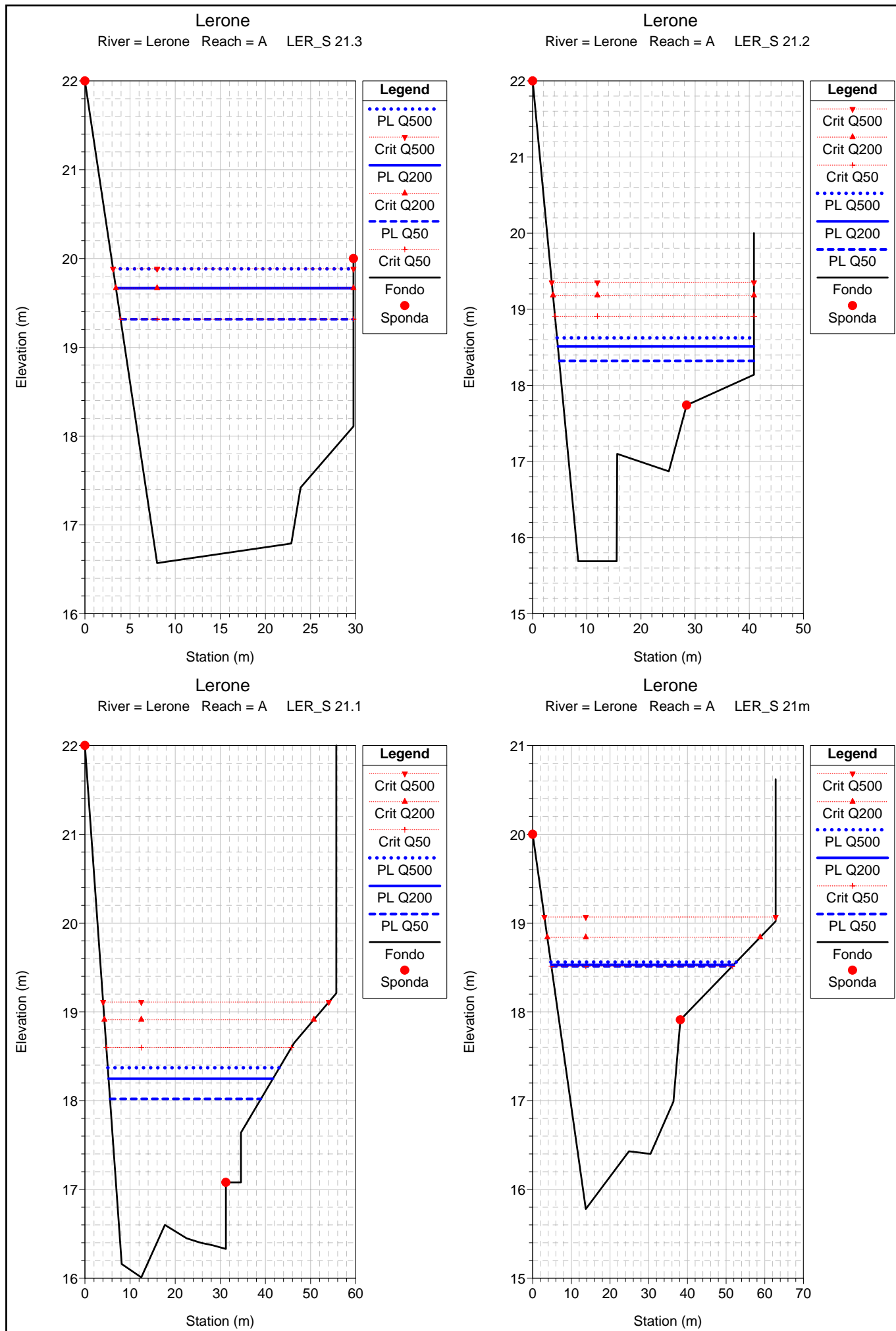


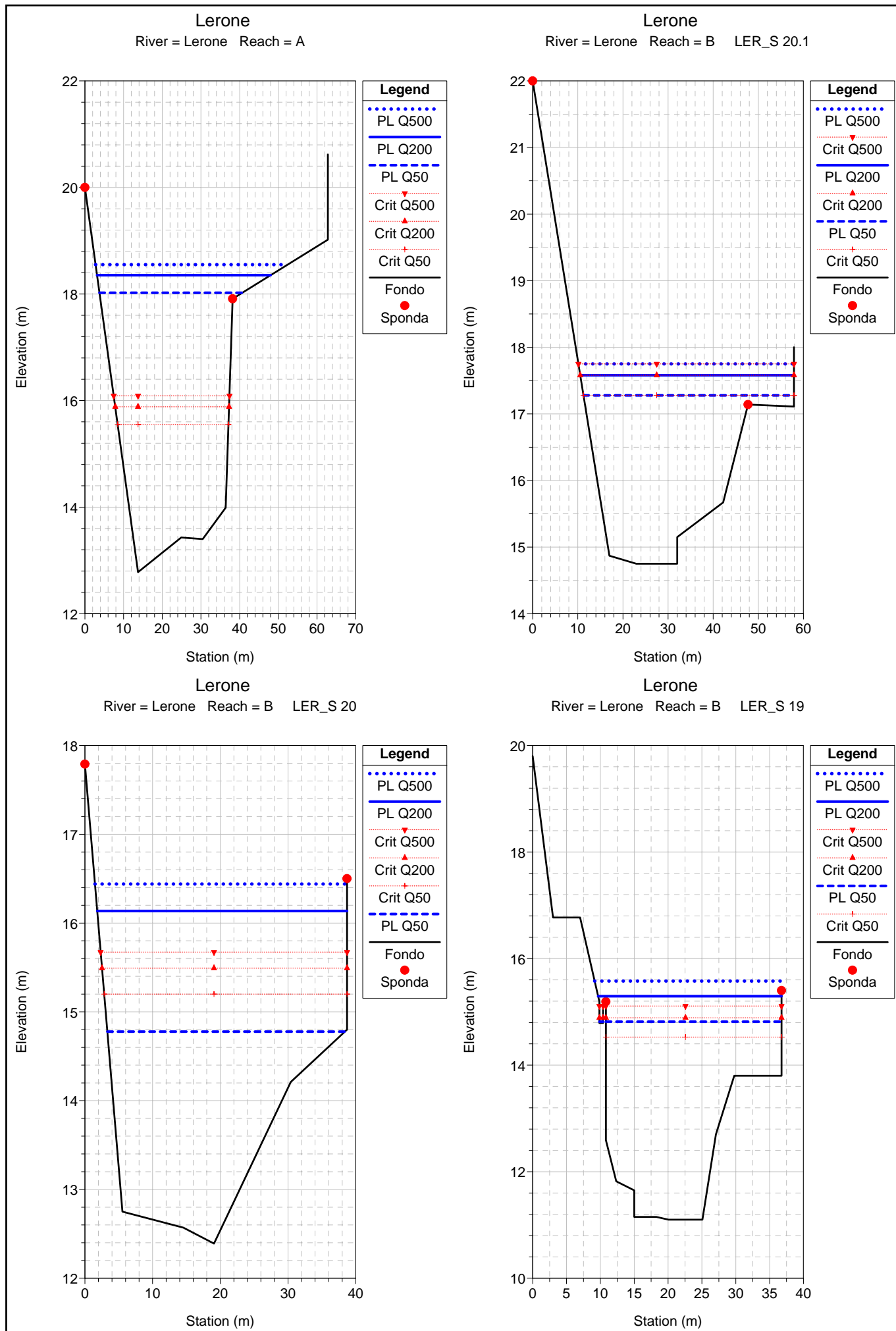


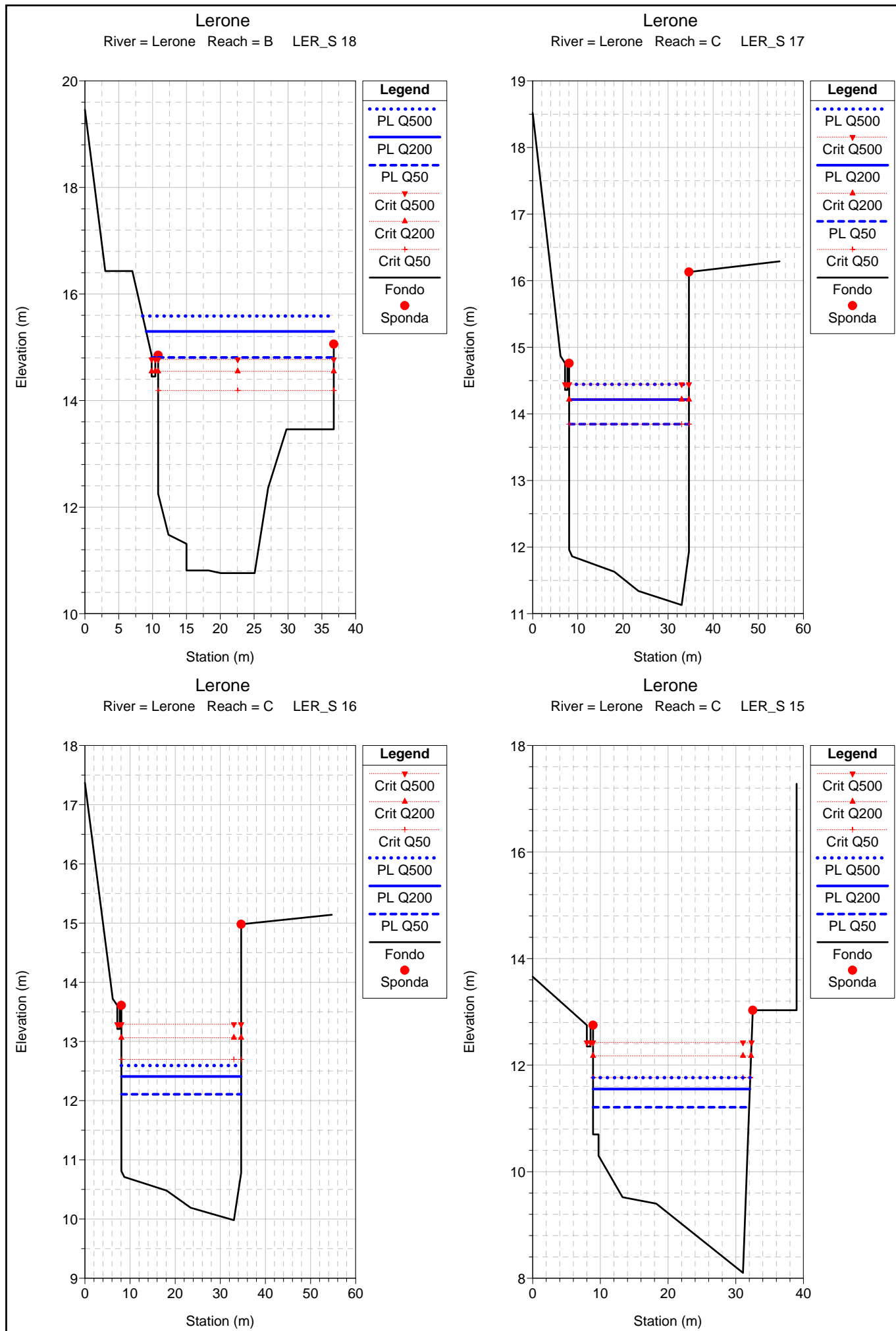


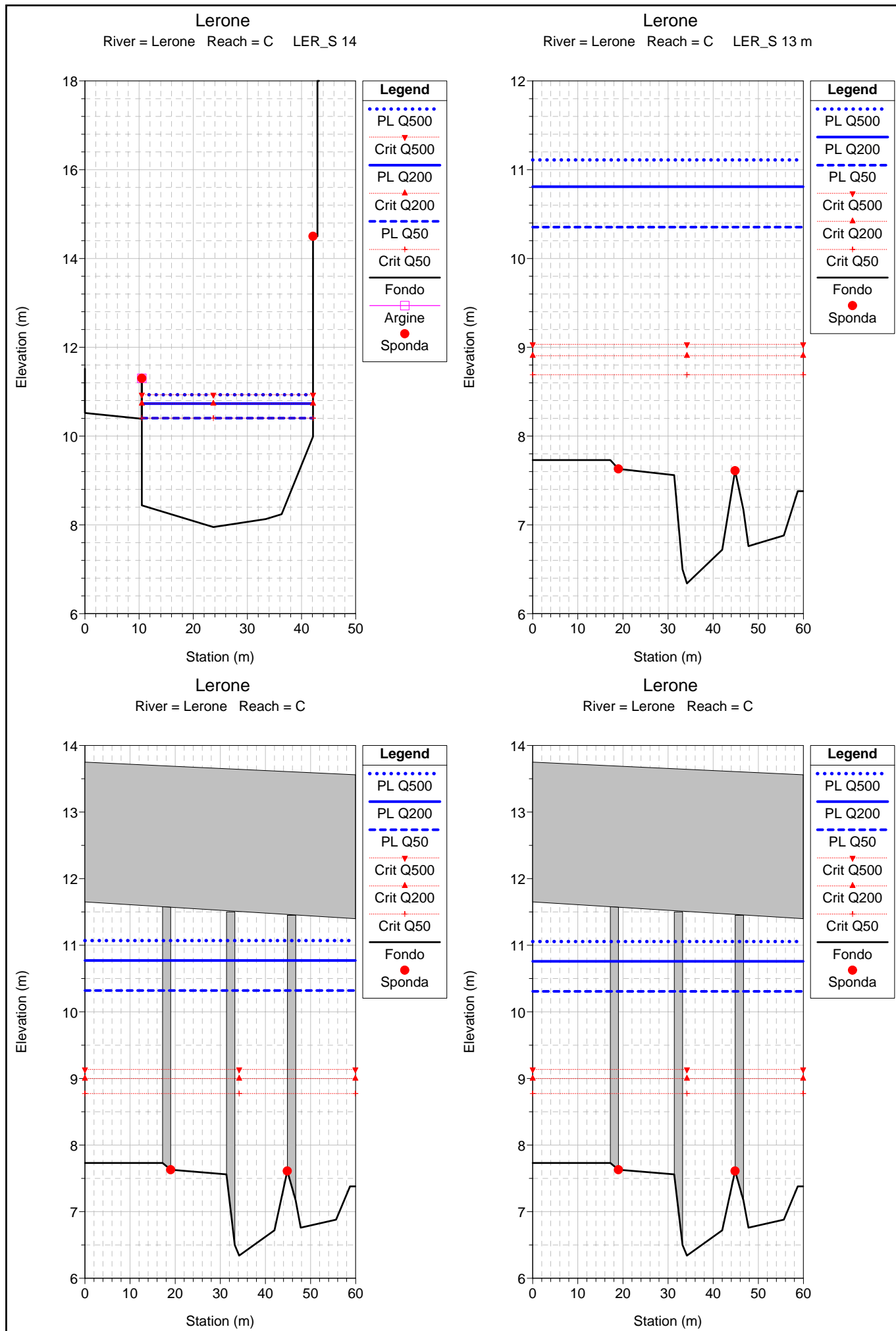


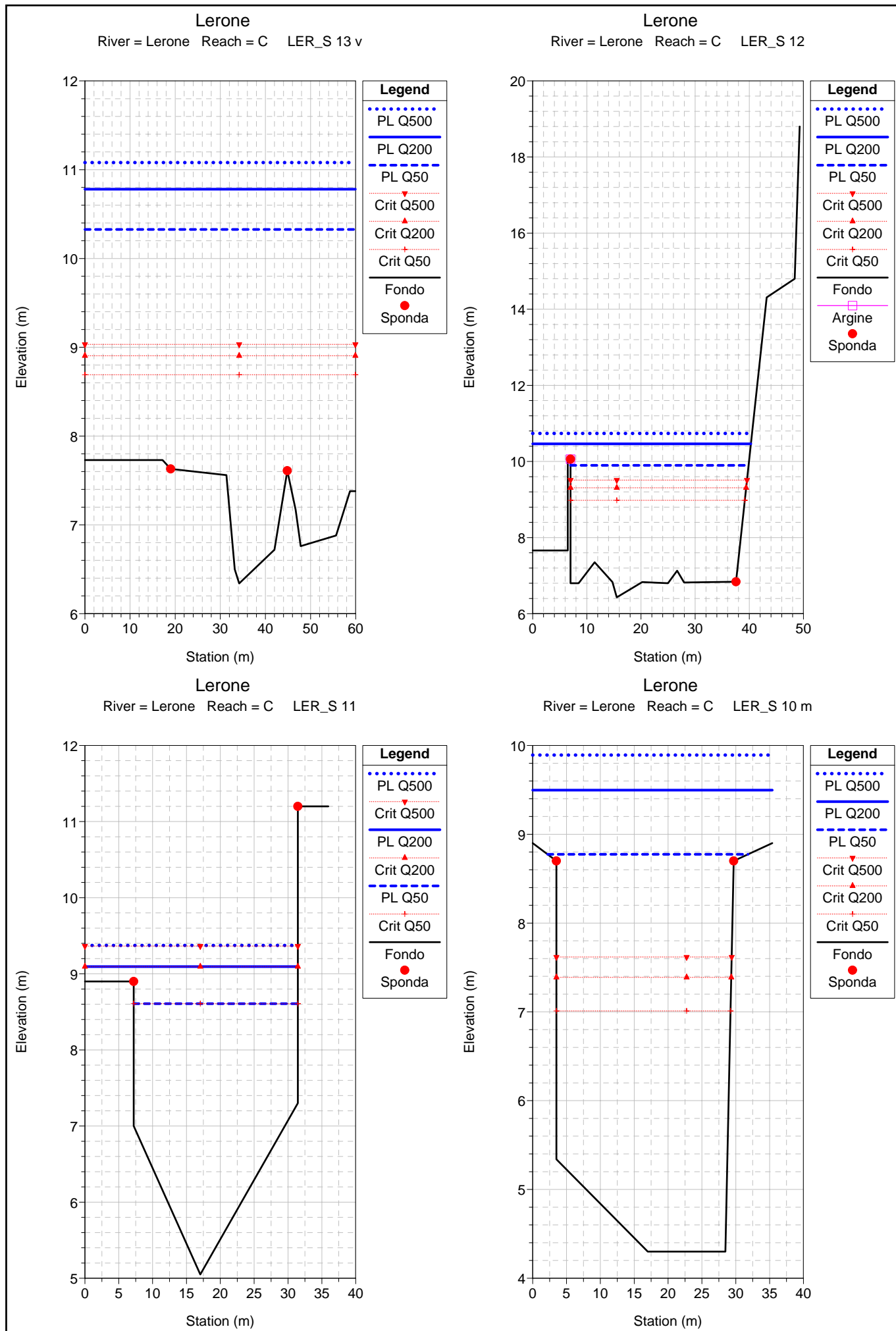




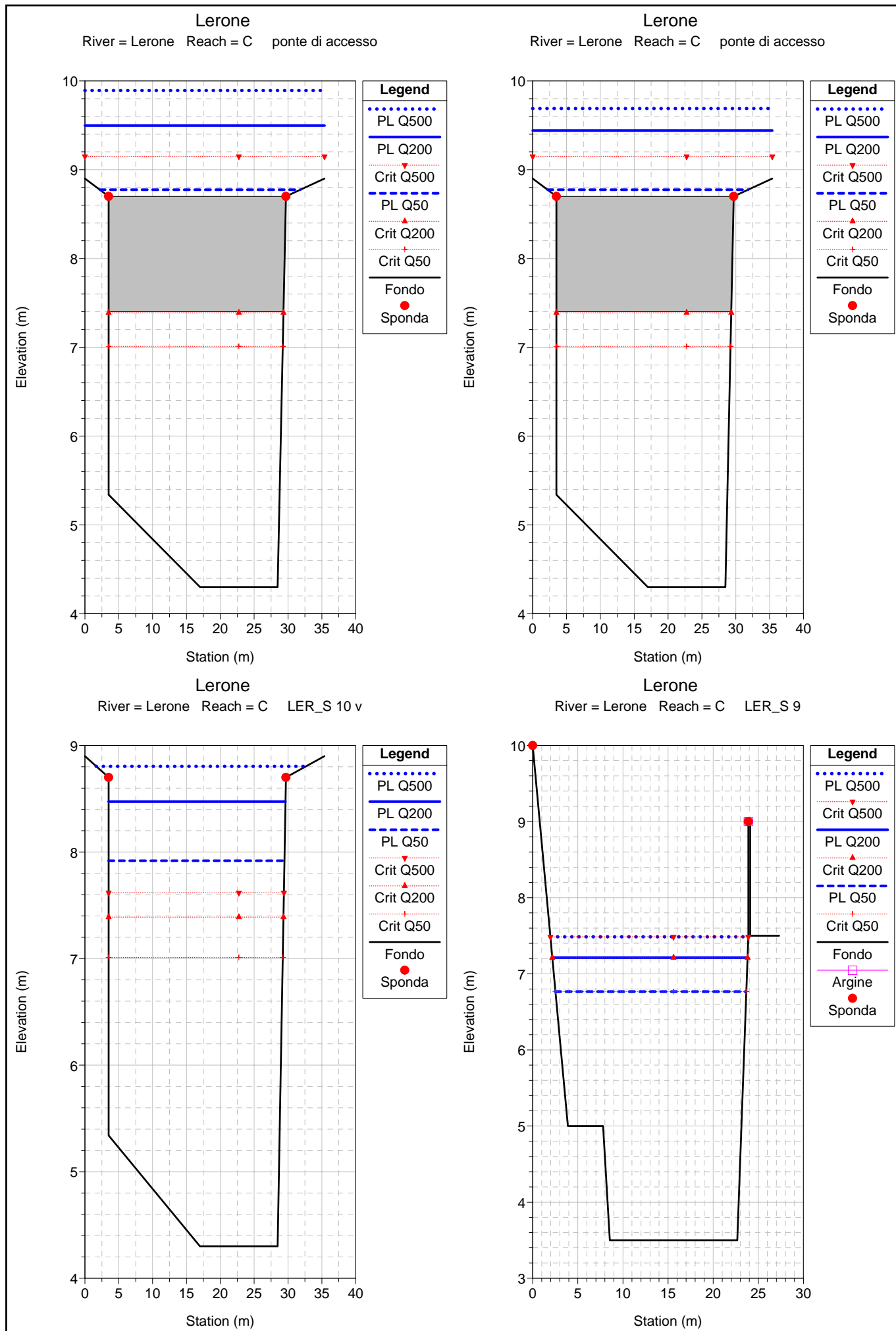


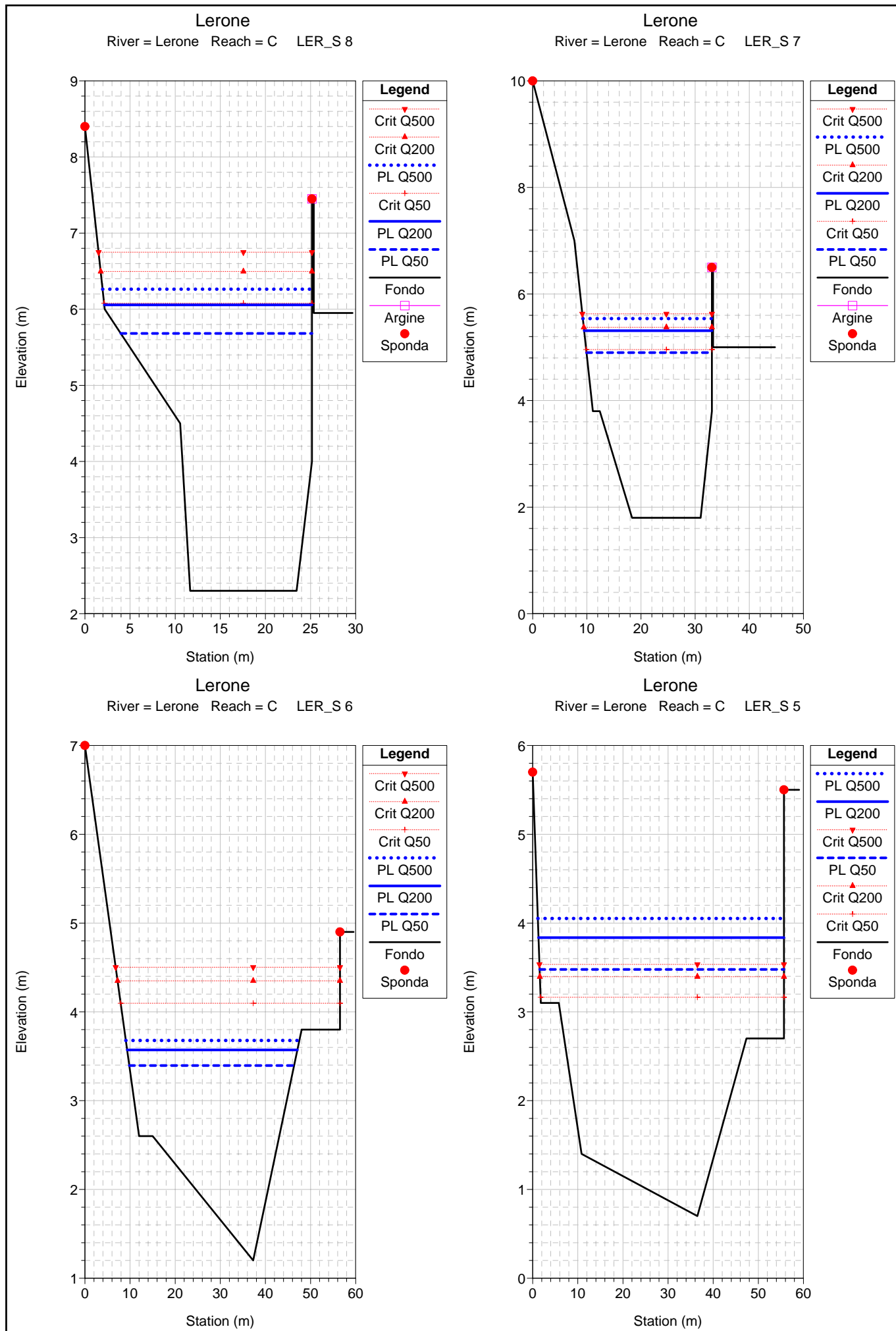


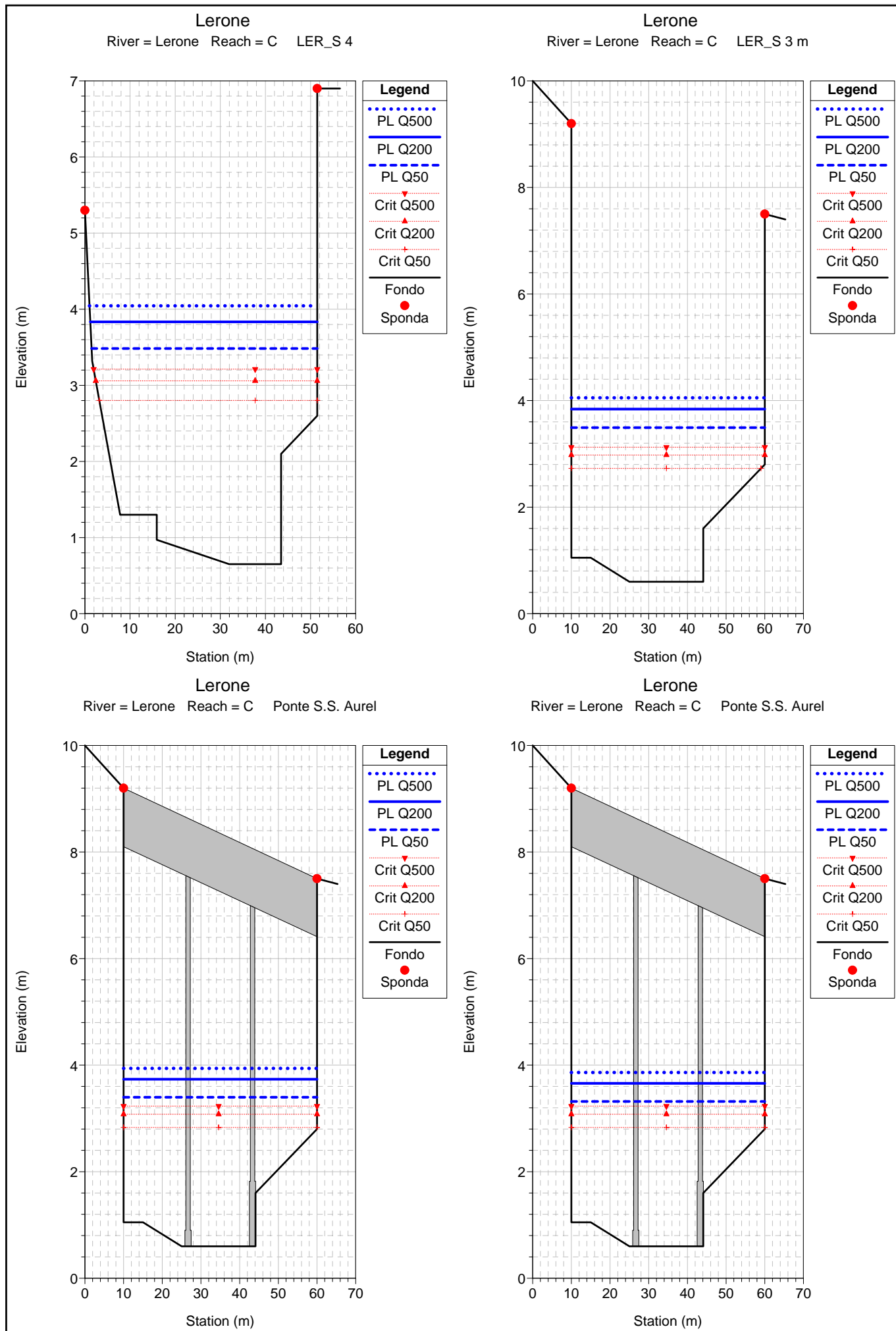


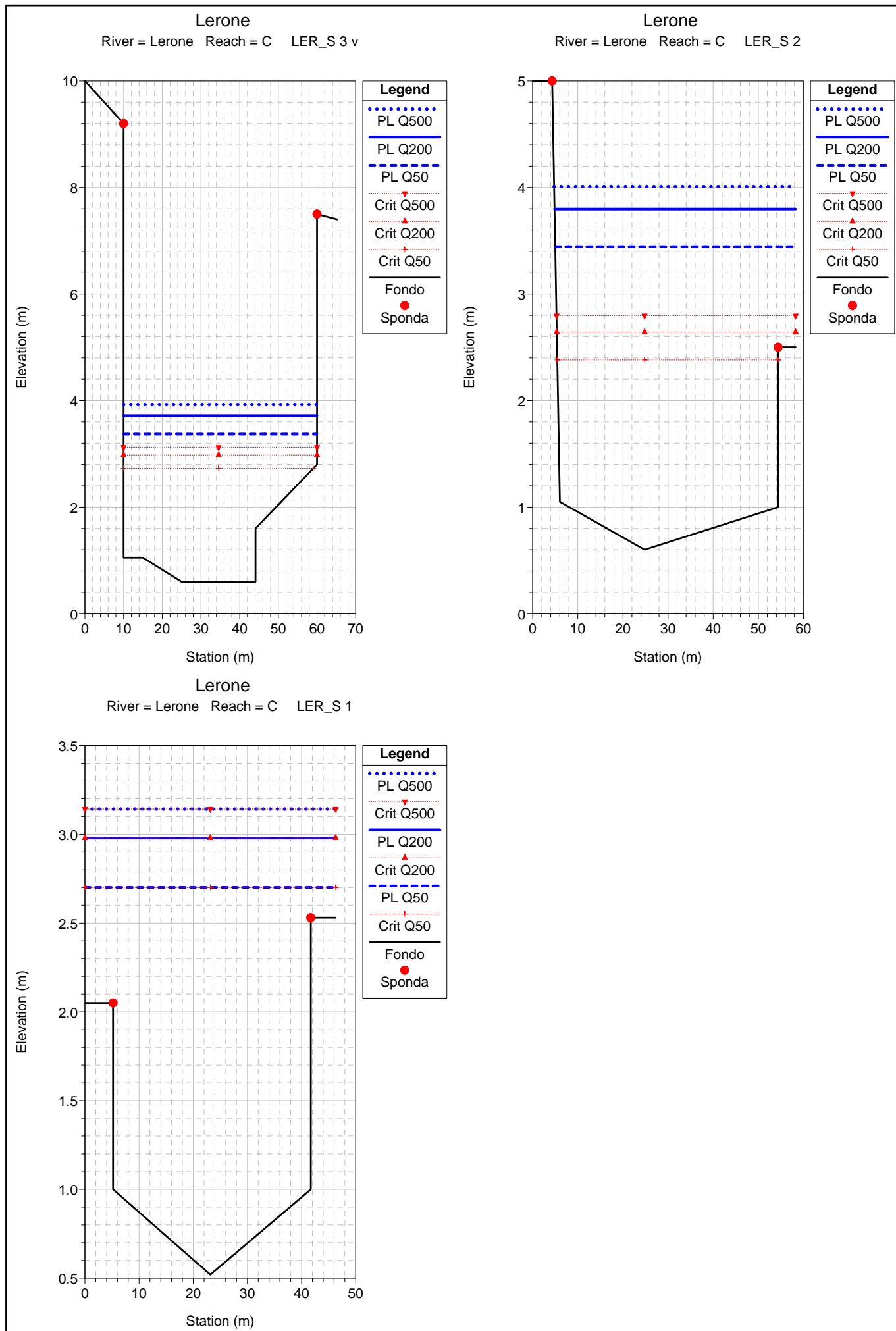


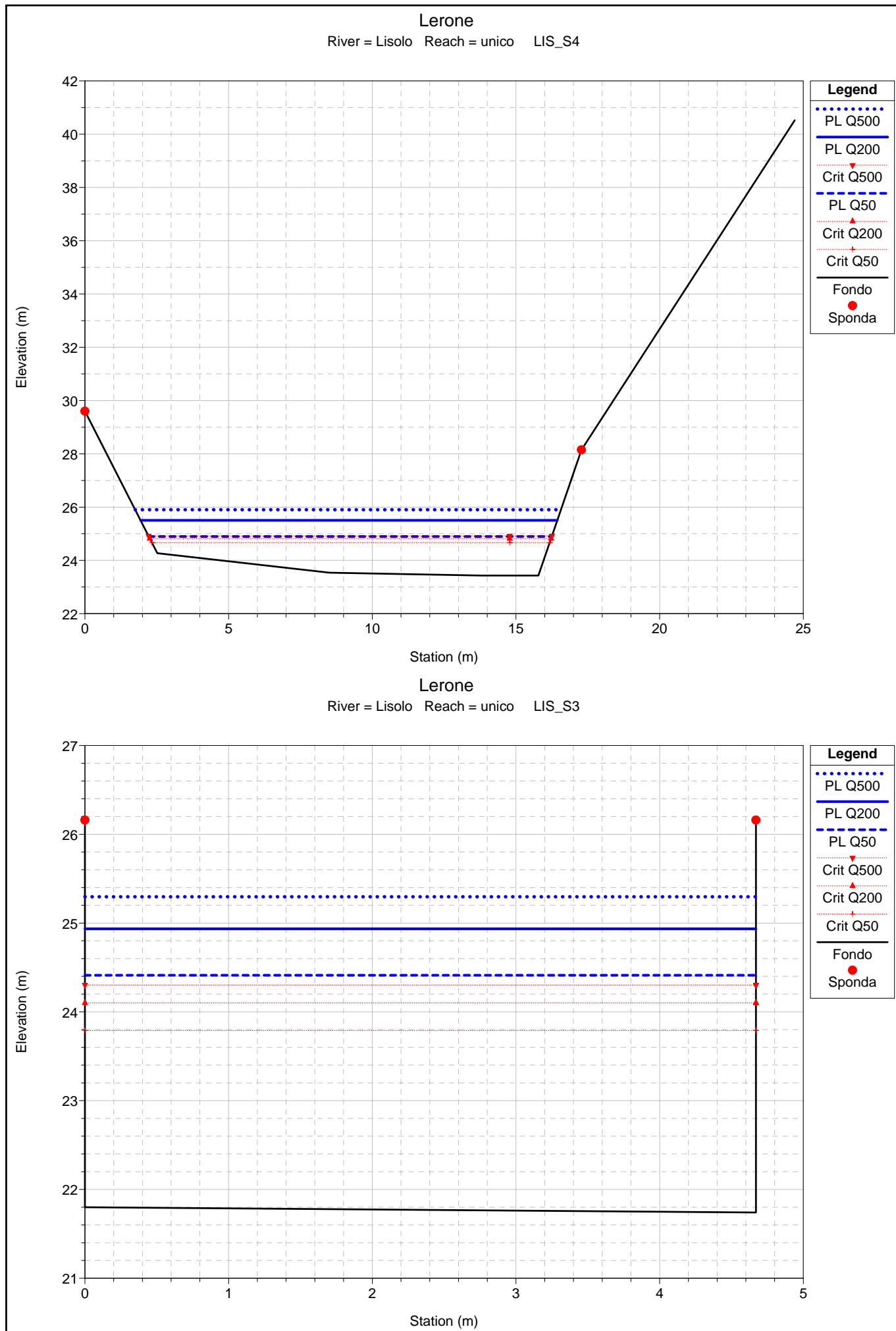


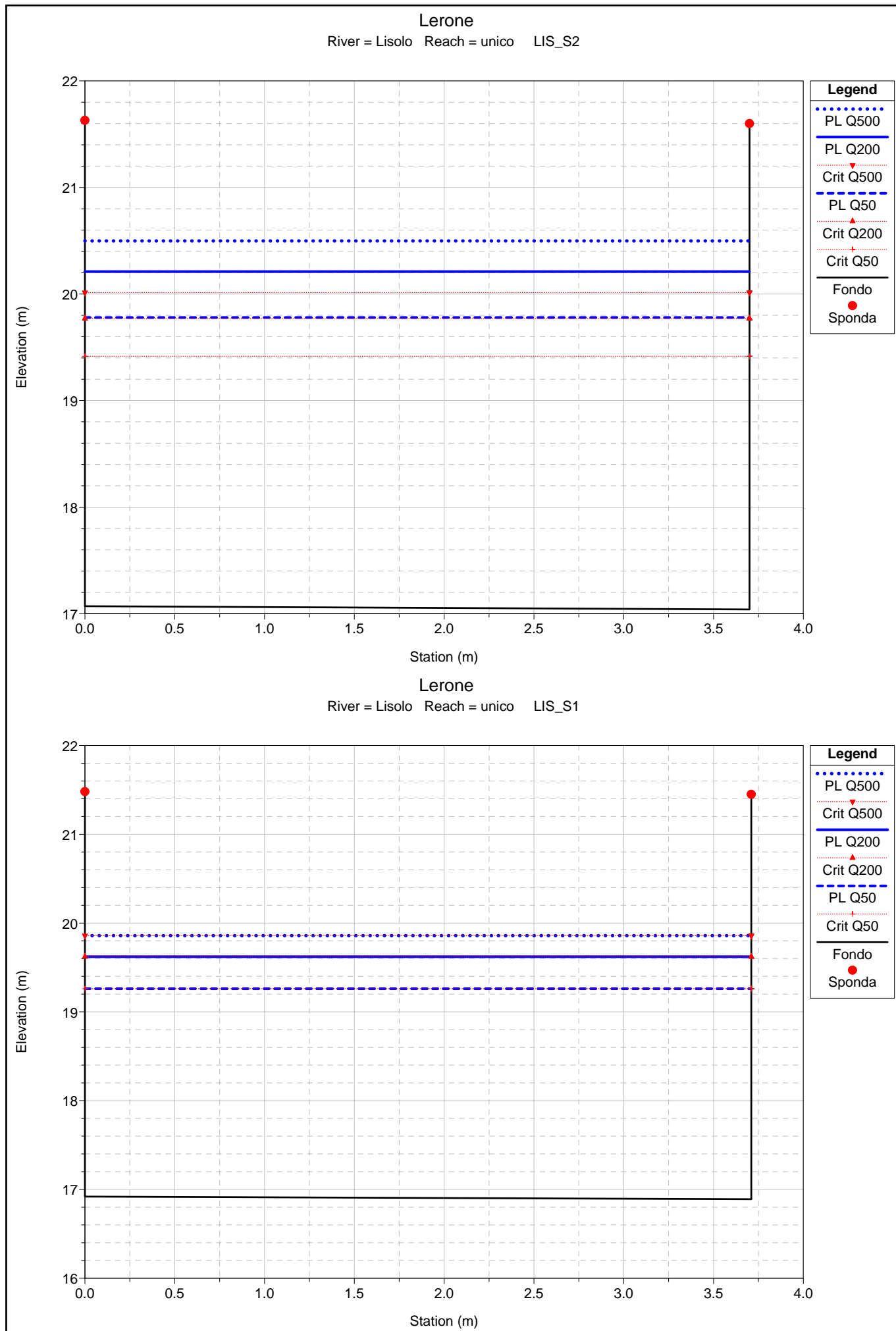


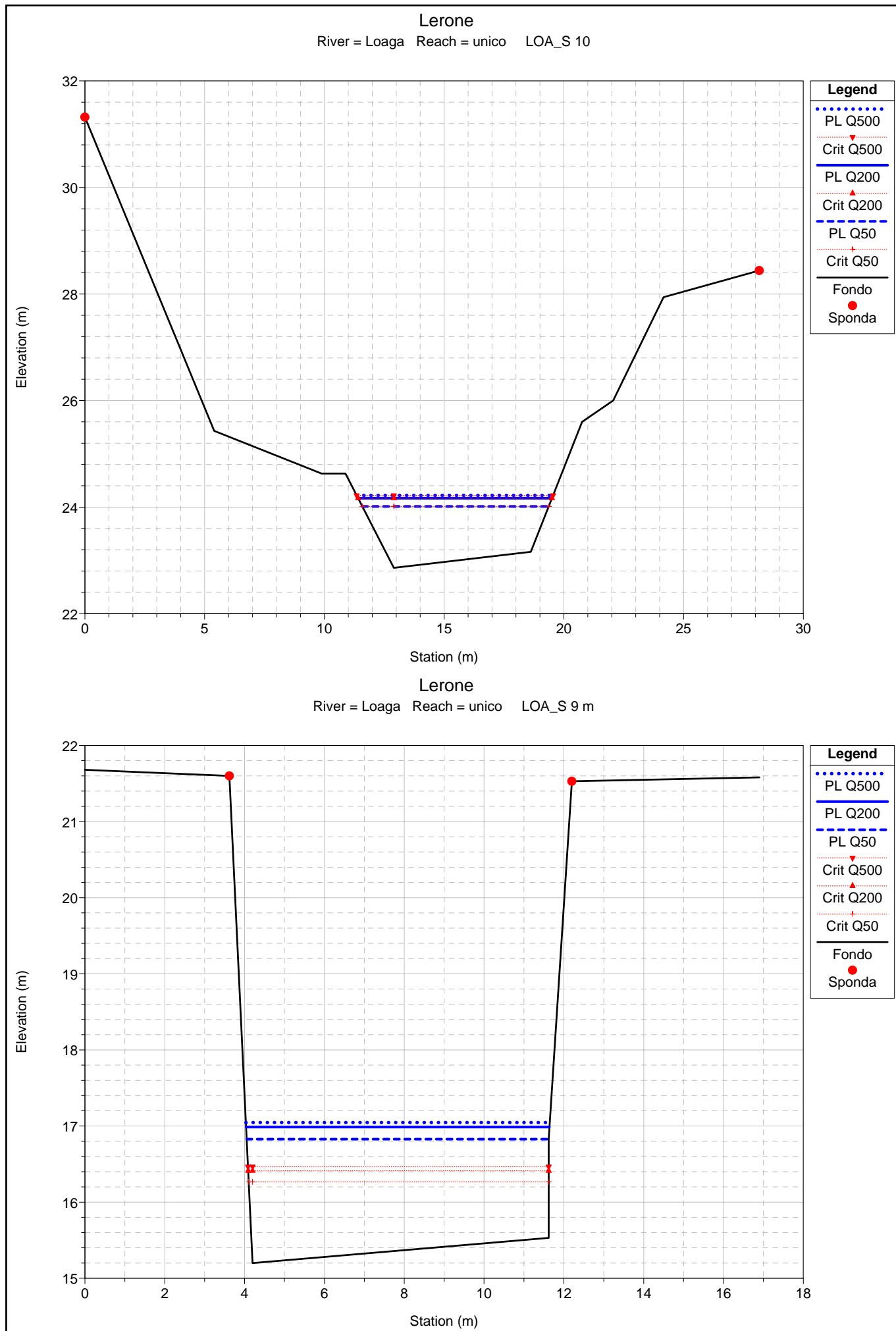


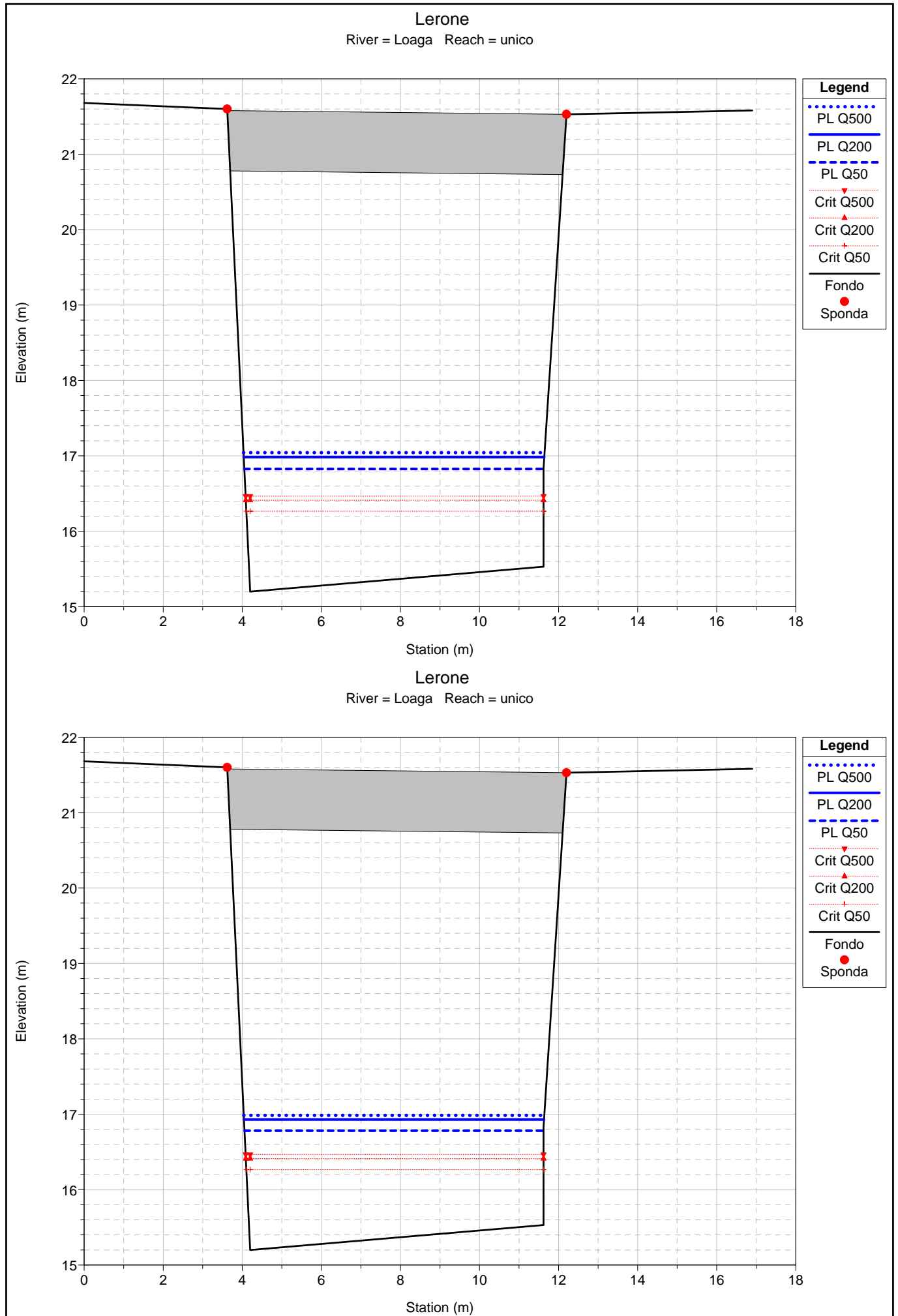




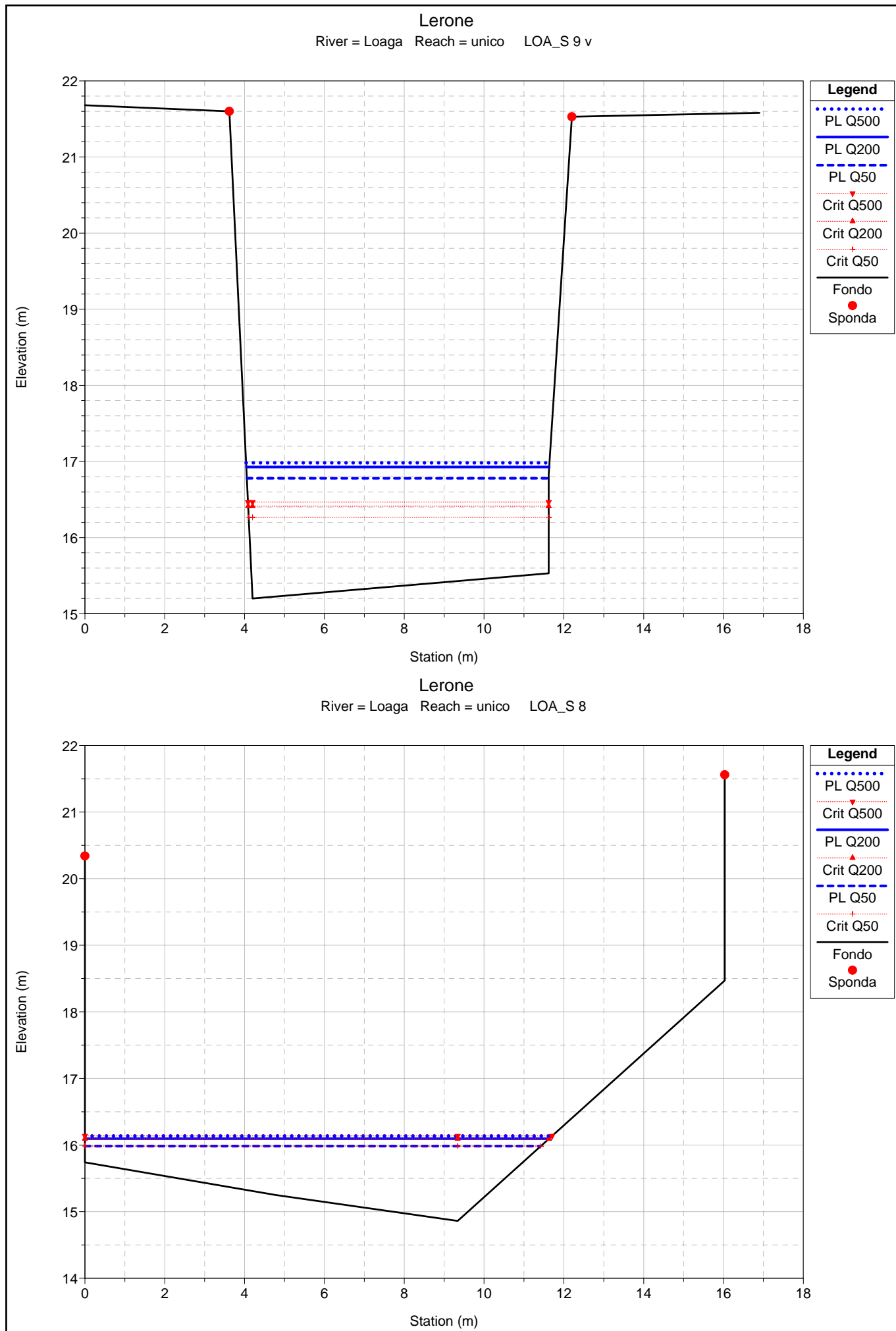


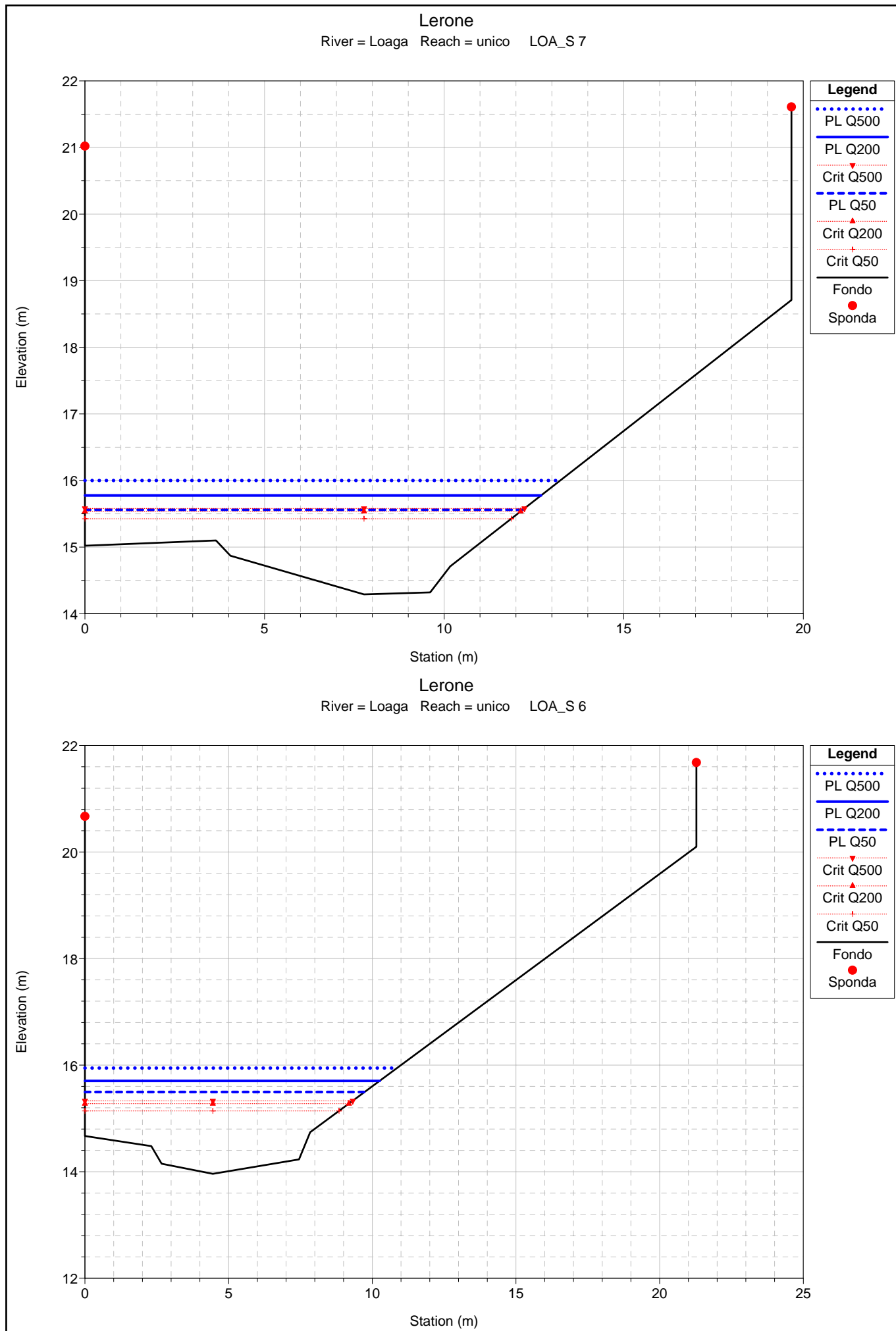


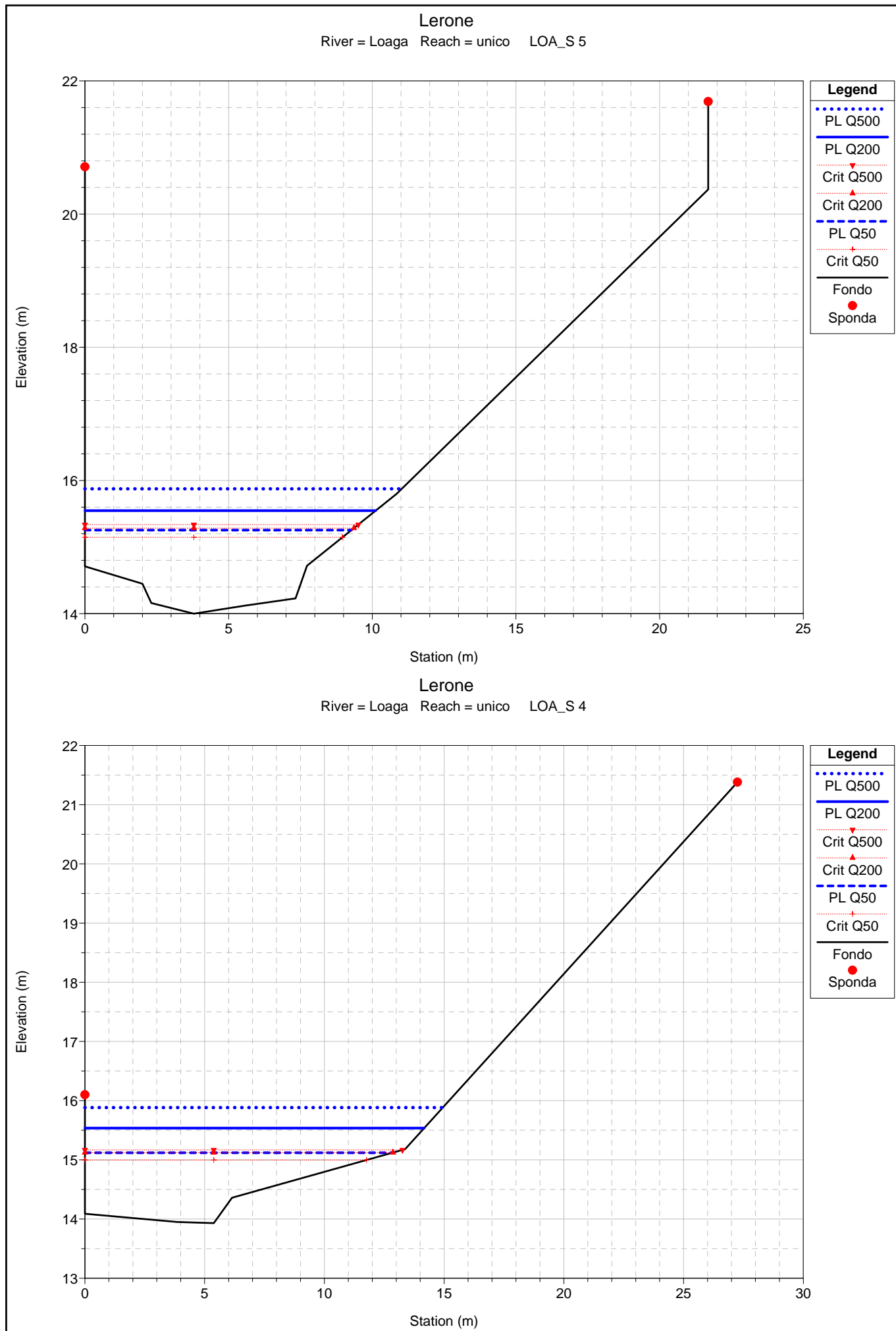


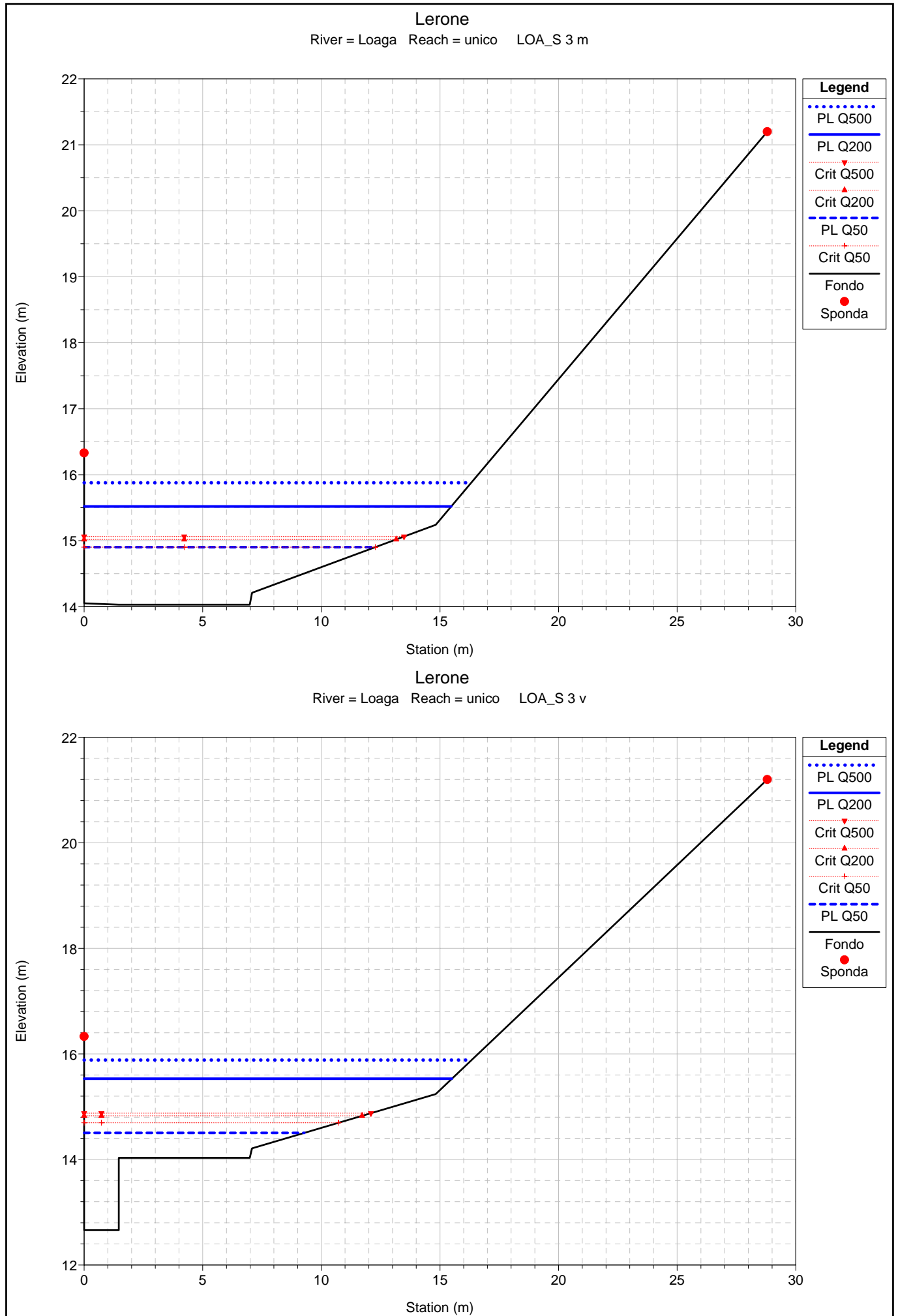


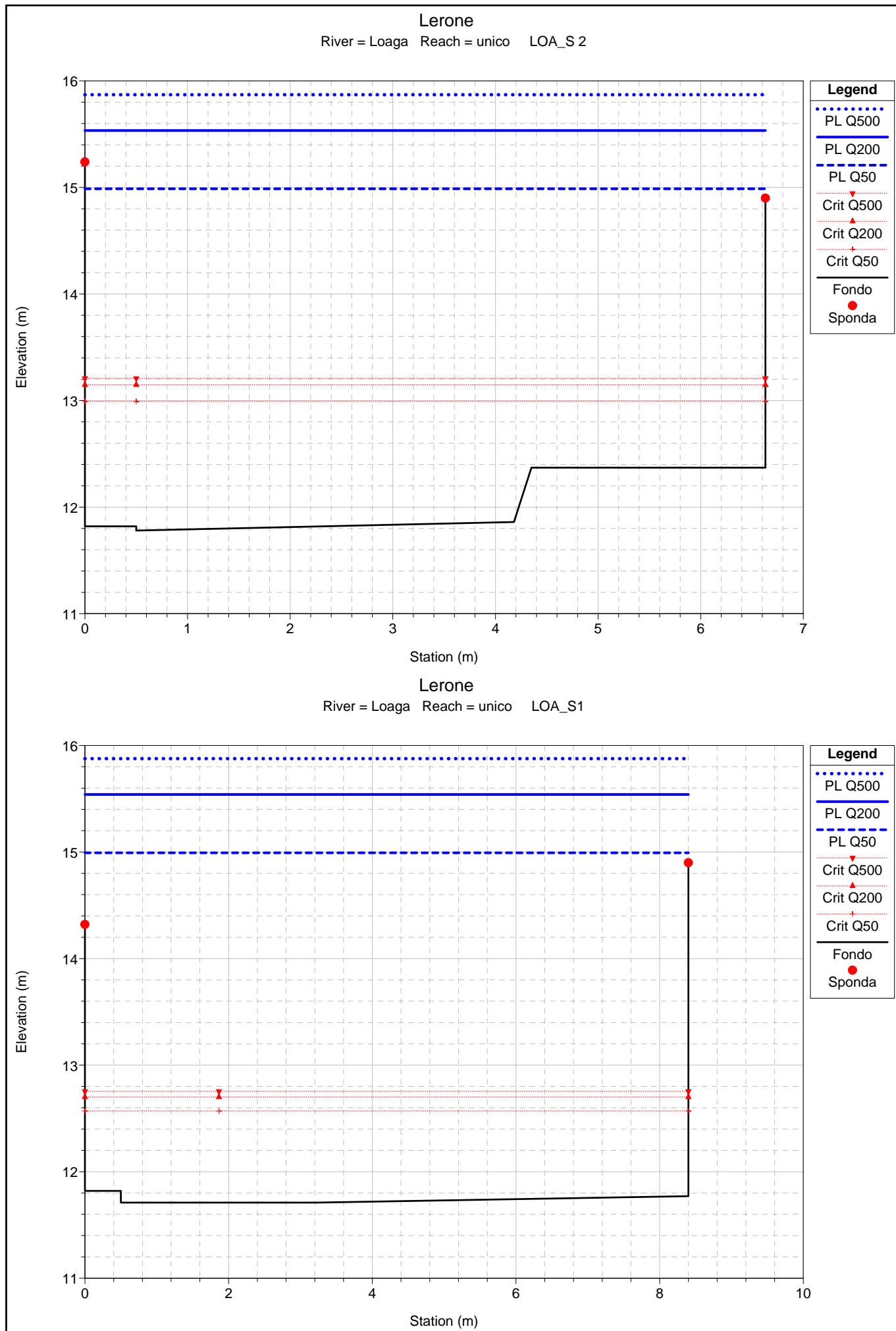












HEC-RAS Plan: 00\_Lerone

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	
A	27.1	LER_S 27 m	Q50	259.00	41.04	43.91	43.82	-0.09	43.63	-0.28	44.42	45.69	0.018121	6.13	47.27	29.07	1.25
A	27.1	LER_S 27 m	Q200	322.00	41.04	43.93	43.82	-0.11	43.63	-0.30	44.74	46.61	0.027096	7.54	47.85	29.08	1.54
A	27.1	LER_S 27 m	Q500	363.00	41.04	44.08	43.82	-0.26	43.63	-0.45	44.75	46.93	0.026898	7.82	52.32	29.17	1.55
A	27.		Bridge														
A	26.9	LER_S 27 v	Q50	259.00	41.04	44.23	43.82	-0.41	43.63	-0.60	44.42	45.46	0.010971	5.18	56.60	29.26	1.00
A	26.9	LER_S 27 v	Q200	322.00	41.04	44.07	43.82	-0.25	43.63	-0.44	44.74	46.34	0.021629	6.99	51.92	29.17	1.39
A	26.9	LER_S 27 v	Q500	363.00	41.04	44.22	43.82	-0.40	43.63	-0.59	44.75	46.67	0.021905	7.30	56.27	29.26	1.41
A	26.1	LER_S 26 v	Q50	259.00	28.90	31.52	32.70	1.18	31.50	-0.02	32.30	34.02	0.030183	7.01	37.00	25.51	1.74
A	26.1	LER_S 26 v	Q200	322.00	28.90	31.76	32.70	0.94	31.50	-0.26	32.64	34.63	0.031273	7.52	43.46	27.10	1.79
A	26.1	LER_S 26 v	Q500	363.00	28.90	31.90	32.70	0.80	31.50	-0.40	32.87	35.00	0.031535	7.84	47.16	27.51	1.82
A	26.		Bridge														
A	25.9	LER_S 26 m	Q50	259.00	28.90	31.86	32.70	0.84	31.50	-0.36	32.30	33.51	0.017256	5.73	46.02	27.44	1.34
A	25.9	LER_S 26 m	Q200	322.00	28.90	32.05	32.70	0.65	31.50	-0.55	32.64	34.12	0.019391	6.42	51.25	27.76	1.44
A	25.9	LER_S 26 m	Q500	363.00	28.90	32.18	32.70	0.52	31.50	-0.68	32.87	34.47	0.019861	6.74	55.11	28.00	1.47
A	25.1	LER_S 25	Q50	259.00	26.75	29.47	30.15	0.68	33.04	3.57	30.03	31.53	0.019177	6.36	40.74	20.01	1.42
A	25.1	LER_S 25	Q200	322.00	26.75	29.81	30.15	0.34	33.04	3.23	30.49	32.15	0.018606	6.78	47.52	20.32	1.41
A	25.1	LER_S 25	Q500	363.00	26.75	30.02	30.15	0.13	33.04	3.02	30.79	32.52	0.018217	7.00	51.84	20.51	1.41
A	24.9	LER_S 25	Q50	259.00	26.75	29.67	30.15	0.48	33.04	3.37	30.03	31.38	0.014494	5.80	44.68	20.19	1.24
A	24.9	LER_S 25	Q200	322.00	26.75	30.00	30.15	0.15	33.04	3.04	30.49	32.00	0.014722	6.27	51.38	20.49	1.26
A	24.9	LER_S 25	Q500	363.00	26.75	30.21	30.15	-0.06	33.04	2.83	30.79	32.37	0.014573	6.51	55.80	21.52	1.26
A	24.	LER_S 24	Q50	259.00	21.18	23.33	28.44	5.11	27.38	4.05	23.81	25.11	0.021170	5.90	43.86	26.41	1.46
A	24.	LER_S 24	Q200	322.00	21.18	23.57	28.44	4.87	27.38	3.81	24.15	25.68	0.021584	6.44	50.02	26.41	1.49
A	24.	LER_S 24	Q500	363.00	21.18	23.71	28.44	4.73	27.38	3.67	24.35	26.03	0.021758	6.74	53.84	26.41	1.51
A	23.95		Bridge														
A	23.9	LER_S 24	Q50	259.00	21.18	23.81	28.44	4.63	27.38	3.57	23.81	24.88	0.009516	4.58	56.50	26.41	1.00
A	23.9	LER_S 24	Q200	322.00	21.18	24.15	28.44	4.29	27.38	3.23	24.15	25.38	0.009333	4.93	65.35	26.41	1.00
A	23.9	LER_S 24	Q500	363.00	21.18	24.69	28.44	3.75	27.38	2.69	24.35	25.75	0.006399	4.55	79.78	26.41	0.84
A	23.	LER_S 23	Q50	259.00	18.09	21.93	22.68	0.75	22.68	0.75	21.93	23.66	0.012728	5.82	44.51	12.92	1.00
A	23.	LER_S 23	Q200	322.00	18.09	22.47	22.68	0.21	22.68	0.21	22.47	24.47	0.012987	6.25	51.49	12.92	1.00
A	23.	LER_S 23	Q500	363.00	18.09	22.81	22.68	-0.13	22.68	-0.13	22.81	24.96	0.013173	6.51	55.78	12.92	1.00
A	22	LER_S 22	Q50	259.00	15.90	19.63	22.61	2.98	22.45	2.82	20.21	21.55	0.033993	6.14	42.17	32.46	1.72
A	22	LER_S 22	Q200	322.00	15.90	19.75	22.61	2.86	22.45	2.70	20.50	22.22	0.039112	6.96	46.29	32.72	1.87
A	22	LER_S 22	Q500	363.00	15.90	19.83	22.61	2.78	22.45	2.62	20.68	22.64	0.041836	7.43	48.88	32.88	1.94
A	21.3	LER_S 21.3	Q50	259.00	16.57	19.32	22.00	2.68	20.00	0.68	19.32	20.40	0.009215	4.62	56.11	25.81	1.00
A	21.3	LER_S 21.3	Q200	322.00	16.57	19.67	22.00	2.33	20.00	0.33	19.67	20.91	0.009012	4.93	65.26	26.32	1.00
A	21.3	LER_S 21.3	Q500	363.00	16.57	19.88	22.00	2.12	20.00	0.12	19.88	21.22	0.008893	5.11	70.98	26.64	1.00
A	21.2	LER_S 21.2	Q50	259.00	15.69	18.32	22.00	3.68	17.74	-0.58	18.91	20.24	0.024136	6.25	44.30	35.96	1.54
A	21.2	LER_S 21.2	Q200	322.00	15.69	18.51	22.00	3.49	17.74	-0.77	19.18	20.73	0.024996	6.78	51.18	36.22	1.59
A	21.2	LER_S 21.2	Q500	363.00	15.69	18.62	22.00	3.38	17.74	-0.88	19.35	21.03	0.025516	7.10	55.27	36.37	1.62

HEC-RAS Plan: 00\_Lerone (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	
A	21.1	LER_S 21.1	Q50	259.00	16.01	18.02	22.00	3.98	17.08	-0.94	18.60	19.81	0.022592	6.02	45.14	33.45	1.52
A	21.1	LER_S 21.1	Q200	322.00	16.01	18.25	22.00	3.75	17.08	-1.17	18.91	20.28	0.022141	6.46	53.09	36.42	1.53
A	21.1	LER_S 21.1	Q500	363.00	16.01	18.37	22.00	3.63	17.08	-1.29	19.11	20.57	0.022346	6.75	57.71	38.04	1.55
A	21	LER_S 21m	Q50	259.00	15.78	18.51	20.00	1.49	17.91	-0.60	18.51	19.32	0.007630	4.01	67.46	46.74	0.93
A	21	LER_S 21m	Q200	322.00	15.78	18.53	20.00	1.47	17.91	-0.62	18.84	19.75	0.011454	4.93	68.24	47.17	1.14
A	21	LER_S 21m	Q500	363.00	15.78	18.56	20.00	1.44	17.91	-0.65	19.07	20.05	0.013805	5.46	69.69	47.94	1.25
A	20.9		Q50	259.00	12.78	18.02	20.00	1.98	17.91	-0.11	15.55	18.21	0.000727	1.90	136.26	36.97	0.31
A	20.9		Q200	322.00	12.78	18.35	20.00	1.65	17.91	-0.44	15.88	18.59	0.000876	2.18	149.73	44.89	0.34
A	20.9		Q500	363.00	12.78	18.55	20.00	1.45	17.91	-0.64	16.09	18.83	0.000961	2.34	159.14	49.68	0.36
B	20.1	LER_S 20.1	Q50	279.00	14.75	17.28	22.00	4.72	17.14	-0.14	17.28	18.12	0.008087	4.06	69.92	46.64	0.95
B	20.1	LER_S 20.1	Q200	347.00	14.75	17.58	22.00	4.42	17.14	-0.44	17.58	18.50	0.007524	4.28	84.16	47.36	0.93
B	20.1	LER_S 20.1	Q500	392.00	14.75	17.75	22.00	4.25	17.14	-0.61	17.75	18.73	0.007390	4.43	92.28	47.77	0.93
B	20	LER_S 20	Q50	279.00	12.39	14.78	17.79	3.01	16.50	1.72	15.20	16.32	0.020844	5.50	50.76	35.10	1.46
B	20	LER_S 20	Q200	347.00	12.39	16.14	17.79	1.65	16.50	0.36	15.49	16.75	0.003847	3.48	99.85	36.90	0.67
B	20	LER_S 20	Q500	392.00	12.39	16.44	17.79	1.35	16.50	0.06	15.67	17.07	0.003525	3.53	111.12	37.24	0.65
B	19	LER_S 19	Q50	279.00	11.10	14.82	15.19	0.37	15.40	0.58	14.53	15.71	0.006816	4.19	66.54	26.50	0.84
B	19	LER_S 19	Q200	347.00	11.10	15.29	15.19	-0.10	15.40	0.11	14.89	16.28	0.006176	4.39	79.27	27.11	0.80
B	19	LER_S 19	Q500	392.00	11.10	15.58	15.19	-0.39	15.40	-0.18	15.11	16.62	0.005909	4.53	87.04	27.62	0.79
B	18	LER_S 18	Q50	279.00	10.76	14.81	14.85	0.04	15.06	0.25	14.19	15.51	0.004669	3.71	75.35	26.50	0.70
B	18	LER_S 18	Q200	347.00	10.76	15.30	14.85	-0.45	15.06	-0.24	14.55	16.09	0.004380	3.94	88.64	27.72	0.68
B	18	LER_S 18	Q500	392.00	10.76	15.59	14.85	-0.74	15.06	-0.53	14.77	16.44	0.004286	4.10	96.75	28.25	0.68
C	17	LER_S 17	Q50	299.00	11.13	13.85	14.76	0.91	16.13	2.28	13.85	15.02	0.009716	4.80	62.28	26.55	1.00
C	17	LER_S 17	Q200	372.00	11.13	14.21	14.76	0.55	16.13	1.92	14.21	15.57	0.009542	5.16	72.07	26.55	1.00
C	17	LER_S 17	Q500	419.00	11.13	14.44	14.76	0.32	16.13	1.69	14.44	15.91	0.009420	5.36	78.20	27.10	1.00
C	16.	LER_S 16	Q50	299.00	9.98	12.11	13.61	1.50	14.98	2.87	12.70	14.20	0.024116	6.41	46.67	26.55	1.54
C	16.	LER_S 16	Q200	372.00	9.98	12.41	13.61	1.20	14.98	2.57	13.06	14.77	0.022671	6.81	54.65	26.55	1.51
C	16.	LER_S 16	Q500	419.00	9.98	12.59	13.61	1.02	14.98	2.39	13.29	15.11	0.021931	7.03	59.57	26.55	1.50
C	15.	LER_S 15	Q50	299.00	8.10	11.21	12.75	1.54	13.03	1.82	11.77	13.30	0.020995	6.41	46.65	23.06	1.44
C	15.	LER_S 15	Q200	372.00	8.10	11.55	12.75	1.20	13.03	1.48	12.17	13.92	0.019919	6.81	54.60	23.17	1.42
C	15.	LER_S 15	Q500	419.00	8.10	11.76	12.75	0.99	13.03	1.27	12.43	14.29	0.019354	7.04	59.52	23.23	1.40
C	14.	LER_S 14	Q50	299.00	7.95	10.40	11.30	0.90	14.50	4.10	10.40	11.45	0.009303	4.53	66.06	31.63	1.00
C	14.	LER_S 14	Q200	372.00	7.95	10.73	11.30	0.57	14.50	3.77	10.73	11.94	0.009089	4.87	76.42	31.63	1.00
C	14.	LER_S 14	Q500	419.00	7.95	10.93	11.30	0.37	14.50	3.57	10.93	12.24	0.008992	5.07	82.71	31.63	1.00
C	13.1	LER_S 13 m	Q50	299.00	6.34	10.35	7.63	-2.72	7.61	-2.74	8.69	10.49	0.000729	1.76	183.43	59.93	0.31
C	13.1	LER_S 13 m	Q200	372.00	6.34	10.81	7.63	-3.18	7.61	-3.20	8.90	10.97	0.000723	1.92	210.75	59.93	0.32
C	13.1	LER_S 13 m	Q500	419.00	6.34	11.11	7.63	-3.48	7.61	-3.50	9.03	11.29	0.000706	2.00	228.81	59.93	0.32
C	13.		Bridge														
C	12.9	LER_S 13 v	Q50	299.00	6.34	10.33	7.63	-2.70	7.61	-2.72	8.69	10.47	0.000749	1.78	181.86	59.93	0.32
C	12.9	LER_S 13 v	Q200	372.00	6.34	10.78	7.63	-3.15	7.61	-3.17	8.90	10.95	0.000742	1.93	209.04	59.93	0.32

HEC-RAS Plan: 00\_Lerone (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	
C	12.9	LER_S 13 v	Q500	419.00	6.34	11.08	7.63	-3.45	7.61	-3.47	9.03	11.26	0.000723	2.01	227.04	59.93	0.32
C	12	LER_S 12	Q50	299.00	6.43	9.90	10.06	0.16	6.84	-3.06	8.98	10.40	0.002830	3.16	96.54	32.89	0.58
C	12	LER_S 12	Q200	372.00	6.43	10.46	10.06	-0.40	6.84	-3.62	9.31	10.89	0.002061	3.01	133.57	40.29	0.51
C	12	LER_S 12	Q500	419.00	6.43	10.74	10.06	-0.68	6.84	-3.90	9.51	11.20	0.002029	3.13	144.71	40.50	0.51
C	11	LER_S 11	Q50	299.00	5.05	8.61	8.90	0.29	11.20	2.59	8.61	9.85	0.006719	4.95	60.45	24.25	1.00
C	11	LER_S 11	Q200	372.00	5.05	9.10	8.90	-0.20	11.20	2.10	9.10	10.43	0.005908	5.13	73.70	31.45	0.95
C	11	LER_S 11	Q500	419.00	5.05	9.37	8.90	-0.47	11.20	1.83	9.36	10.75	0.005537	5.23	82.44	31.45	0.93
C	10	LER_S 10 m	Q50	299.00	4.30	8.77	8.70	-0.07	8.70	-0.07	7.01	9.17	0.001253	2.78	107.62	29.61	0.44
C	10	LER_S 10 m	Q200	372.00	4.30	9.50	8.70	-0.80	8.70	-0.80	7.39	9.92	0.001096	2.90	132.85	35.40	0.42
C	10	LER_S 10 m	Q500	419.00	4.30	9.89	8.70	-1.19	8.70	-1.19	7.62	10.34	0.001046	2.98	146.84	35.40	0.42
C	9.8	ponete di accesso	Bridge														
C	9.5	LER_S 10 v	Q50	299.00	4.30	7.92	8.70	0.78	8.70	0.78	7.01	8.55	0.002550	3.51	85.15	25.98	0.62
C	9.5	LER_S 10 v	Q200	372.00	4.30	8.47	8.70	0.23	8.70	0.23	7.39	9.18	0.002453	3.73	99.62	26.14	0.61
C	9.5	LER_S 10 v	Q500	419.00	4.30	8.80	8.70	-0.10	8.70	-0.10	7.62	9.57	0.002400	3.87	108.54	31.02	0.61
C	9	LER_S 9	Q50	299.00	3.50	6.77	10.00	3.23	9.00	2.23	6.77	8.13	0.007008	5.18	57.77	21.15	1.00
C	9	LER_S 9	Q200	372.00	3.50	7.21	10.00	2.79	9.00	1.79	7.21	8.77	0.006872	5.53	67.31	21.64	1.00
C	9	LER_S 9	Q500	419.00	3.50	7.49	10.00	2.51	9.00	1.51	7.49	9.15	0.006783	5.72	73.27	21.93	1.00
C	8	LER_S 8	Q50	299.00	2.30	5.68	8.40	2.72	7.45	1.77	6.08	7.46	0.010707	5.91	50.60	21.18	1.22
C	8	LER_S 8	Q200	372.00	2.30	6.06	8.40	2.34	7.45	1.39	6.50	8.09	0.011188	6.31	58.93	23.00	1.26
C	8	LER_S 8	Q500	419.00	2.30	6.26	8.40	2.14	7.45	1.19	6.75	8.47	0.011214	6.58	63.69	23.19	1.27
C	7	LER_S 7	Q50	299.00	1.80	4.90	10.00	5.10	6.50	1.60	4.96	6.24	0.007001	5.14	58.22	23.17	1.03
C	7	LER_S 7	Q200	372.00	1.80	5.31	10.00	4.69	6.50	1.19	5.37	6.84	0.006849	5.48	67.84	23.61	1.03
C	7	LER_S 7	Q500	419.00	1.80	5.54	10.00	4.46	6.50	0.96	5.63	7.21	0.006924	5.72	73.23	23.85	1.04
C	6	LER_S 6	Q50	299.00	1.20	3.40	7.00	3.60	4.90	1.50	4.10	5.50	0.023826	6.43	46.53	36.53	1.82
C	6	LER_S 6	Q200	372.00	1.20	3.57	7.00	3.43	4.90	1.33	4.35	6.07	0.024881	7.01	53.07	37.73	1.89
C	6	LER_S 6	Q500	419.00	1.20	3.68	7.00	3.32	4.90	1.22	4.50	6.42	0.025346	7.33	57.13	38.47	1.92
C	5	LER_S 5	Q50	299.00	0.70	3.48	5.70	2.22	5.50	2.02	3.16	3.97	0.003694	3.12	95.82	54.15	0.75
C	5	LER_S 5	Q200	372.00	0.70	3.84	5.70	1.86	5.50	1.66	3.40	4.37	0.003147	3.23	115.28	54.40	0.71
C	5	LER_S 5	Q500	419.00	0.70	4.05	5.70	1.65	5.50	1.45	3.53	4.61	0.002920	3.30	127.04	54.55	0.69
C	4	LER_S 4	Q50	299.00	0.65	3.48	5.30	1.82	6.90	3.42	2.80	3.86	0.002218	2.73	109.62	50.00	0.59
C	4	LER_S 4	Q200	372.00	0.65	3.83	5.30	1.47	6.90	3.07	3.06	4.27	0.002137	2.93	127.14	50.29	0.59
C	4	LER_S 4	Q500	419.00	0.65	4.04	5.30	1.26	6.90	2.86	3.21	4.52	0.002100	3.04	137.76	50.46	0.59
C	3	LER_S 3 m	Q50	299.00	0.60	3.49	9.20	5.71	7.50	4.01	2.73	3.84	0.001964	2.61	114.64	50.00	0.55
C	3	LER_S 3 m	Q200	372.00	0.60	3.84	9.20	5.36	7.50	3.66	2.98	4.24	0.001927	2.82	132.12	50.00	0.55
C	3	LER_S 3 m	Q500	419.00	0.60	4.05	9.20	5.15	7.50	3.45	3.12	4.49	0.001912	2.94	142.66	50.00	0.56
C	2.8	Ponte S.S. Aurel	Bridge														
C	2.5	LER_S 3 v	Q50	299.00	0.60	3.37	9.20	5.83	7.50	4.13	2.73	3.76	0.002335	2.75	108.64	50.00	0.60
C	2.5	LER_S 3 v	Q200	372.00	0.60	3.72	9.20	5.48	7.50	3.78	2.98	4.16	0.002247	2.95	125.93	50.00	0.59
C	2.5	LER_S 3 v	Q500	419.00	0.60	3.92	9.20	5.28	7.50	3.58	3.12	4.41	0.002212	3.07	136.29	50.00	0.59



HEC-RAS Plan: 00\_Lerone (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
C	2 LER_S 2	Q50	299.00	0.60	3.44	5.00	1.56	2.50	-0.94	2.38	3.71	0.001247	2.29	132.35	53.25	0.45
C	2 LER_S 2	Q200	372.00	0.60	3.80	5.00	1.20	2.50	-1.30	2.64	4.11	0.001267	2.50	151.11	53.40	0.47
C	2 LER_S 2	Q500	419.00	0.60	4.01	5.00	0.99	2.50	-1.51	2.80	4.35	0.001278	2.63	162.41	53.49	0.47
C	1 LER_S 1	Q50	299.00	0.52	2.70	2.05	-0.65	2.53	-0.17	2.70	3.55	0.006019	4.12	75.03	46.30	0.94
C	1 LER_S 1	Q200	372.00	0.52	2.98	2.05	-0.93	2.53	-0.45	2.98	3.94	0.005786	4.42	87.91	46.30	0.95
C	1 LER_S 1	Q500	419.00	0.52	3.14	2.05	-1.09	2.53	-0.61	3.14	4.18	0.005700	4.59	95.47	46.30	0.95

HEC-RAS Plan: 01\_Loaga

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Loaga	unico	13 LOA_S 10	Q50	20.00	22.86	24.01	31.32	7.31	28.44	4.43	24.01	24.45	0.012828	2.94	6.81	7.78	1.00
Loaga	unico	13 LOA_S 10	Q200	25.00	22.86	24.17	31.32	7.15	28.44	4.27	24.17	24.66	0.012336	3.11	8.04	8.09	1.00
Loaga	unico	13 LOA_S 10	Q500	27.00	22.86	24.22	31.32	7.10	28.44	4.22	24.22	24.74	0.012362	3.19	8.47	8.20	1.00
Loaga	unico	12.1 LOA_S 9 m	Q50	20.00	15.20	16.83	21.60	4.77	21.53	4.70	16.27	17.00	0.003353	1.82	10.97	7.57	0.48
Loaga	unico	12.1 LOA_S 9 m	Q200	25.00	15.20	16.99	21.60	4.61	21.53	4.54	16.41	17.20	0.003857	2.05	12.17	7.60	0.52
Loaga	unico	12.1 LOA_S 9 m	Q500	27.00	15.20	17.05	21.60	4.55	21.53	4.48	16.47	17.28	0.004042	2.14	12.63	7.61	0.53
Loaga	unico	12.05		Bridge													
Loaga	unico	12 LOA_S 9 v	Q50	20.00	15.20	16.78	21.60	4.82	21.53	4.75	16.27	16.96	0.003704	1.89	10.61	7.56	0.51
Loaga	unico	12 LOA_S 9 v	Q200	25.00	15.20	16.93	21.60	4.67	21.53	4.60	16.41	17.16	0.004303	2.13	11.73	7.59	0.55
Loaga	unico	12 LOA_S 9 v	Q500	27.00	15.20	16.98	21.60	4.62	21.53	4.55	16.47	17.23	0.004526	2.22	12.15	7.60	0.56
Loaga	unico	10.9 LOA_S 8	Q50	20.00	14.86	15.98	20.34	4.36	21.56	5.58	15.98	16.32	0.013057	2.59	7.74	11.42	1.00
Loaga	unico	10.9 LOA_S 8	Q200	25.00	14.86	16.10	20.34	4.24	21.56	5.46	16.10	16.49	0.012645	2.77	9.03	11.63	1.00
Loaga	unico	10.9 LOA_S 8	Q500	27.00	14.86	16.14	20.34	4.20	21.56	5.42	16.14	16.55	0.012587	2.84	9.51	11.71	1.01
Loaga	unico	10.8 LOA_S 7	Q50	20.00	14.29	15.56	21.02	5.46	21.61	6.05	15.43	15.79	0.007569	2.12	9.45	12.19	0.77
Loaga	unico	10.8 LOA_S 7	Q200	25.00	14.29	15.77	21.02	5.25	21.61	5.84	15.54	15.99	0.005553	2.06	12.13	12.70	0.67
Loaga	unico	10.8 LOA_S 7	Q500	27.00	14.29	16.00	21.02	5.02	21.61	5.61	15.58	16.16	0.003409	1.80	15.03	13.23	0.54
Loaga	unico	10.7 LOA_S 6	Q50	20.00	13.96	15.50	20.67	5.17	21.68	6.18	15.14	15.68	0.004359	1.92	10.43	9.74	0.59
Loaga	unico	10.7 LOA_S 6	Q200	25.00	13.96	15.70	20.67	4.97	21.68	5.98	15.28	15.91	0.004056	2.00	12.52	10.26	0.58
Loaga	unico	10.7 LOA_S 6	Q500	27.00	13.96	15.95	20.67	4.72	21.68	5.73	15.33	16.11	0.002812	1.79	15.06	10.86	0.49
Loaga	unico	10.6 LOA_S 5	Q50	20.00	14.00	15.25	20.71	5.46	21.69	6.44	15.15	15.56	0.009024	2.46	8.13	9.27	0.84
Loaga	unico	10.6 LOA_S 5	Q200	25.00	14.00	15.55	20.71	5.16	21.69	6.14	15.28	15.81	0.006003	2.28	10.97	10.12	0.70
Loaga	unico	10.6 LOA_S 5	Q500	27.00	14.00	15.87	20.71	4.84	21.69	5.82	15.34	16.05	0.003236	1.87	14.43	11.03	0.52
Loaga	unico	10.5 LOA_S 4	Q50	20.00	13.93	15.12	16.10	0.98	21.38	6.26	15.00	15.35	0.008646	2.15	9.32	12.84	0.80
Loaga	unico	10.5 LOA_S 4	Q200	25.00	13.93	15.54	16.10	0.56	21.38	5.84	15.12	15.68	0.003250	1.67	15.01	14.17	0.52
Loaga	unico	10.5 LOA_S 4	Q500	27.00	13.93	15.88	16.10	0.22	21.38	5.50	15.17	15.98	0.001587	1.35	20.06	14.94	0.37
Loaga	unico	10.4 LOA_S 3 m	Q50	20.00	14.03	14.90	16.33	1.43	21.20	6.30	14.90	15.22	0.013730	2.52	7.94	12.27	1.00
Loaga	unico	10.4 LOA_S 3 m	Q200	25.00	14.03	15.52	16.33	0.81	21.20	5.68	15.02	15.63	0.002503	1.49	16.76	15.48	0.46
Loaga	unico	10.4 LOA_S 3 m	Q500	27.00	14.03	15.88	16.33	0.45	21.20	5.32	15.06	15.95	0.001210	1.20	22.47	16.32	0.33
Loaga	unico	10 LOA_S 3 v	Q50	20.00	12.66	14.50	16.33	1.83	21.20	6.70	14.69	15.14	0.039522	3.53	5.66	9.28	1.44
Loaga	unico	10 LOA_S 3 v	Q200	25.00	12.66	15.53	16.33	0.80	21.20	5.67	14.83	15.62	0.002033	1.32	18.95	15.50	0.38
Loaga	unico	10 LOA_S 3 v	Q500	27.00	12.66	15.88	16.33	0.45	21.20	5.32	14.88	15.95	0.001082	1.10	24.57	16.33	0.29
Loaga	unico	9.9 LOA_S 2	Q50	20.00	11.78	14.99	15.24	0.25	14.90	-0.09	12.99	15.04	0.000634	1.02	19.70	6.63	0.19
Loaga	unico	9.9 LOA_S 2	Q200	25.00	11.78	15.53	15.24	-0.29	14.90	-0.63	13.15	15.59	0.000629	1.07	23.32	6.63	0.18
Loaga	unico	9.9 LOA_S 2	Q500	27.00	11.78	15.87	15.24	-0.63	14.90	-0.97	13.21	15.93	0.000576	1.06	25.55	6.63	0.17
Loaga	unico	9.8 LOA_S 1	Q50	20.00	11.71	14.99	14.32	-0.67	14.90	-0.09	12.57	15.02	0.000259	0.73	27.36	8.40	0.14
Loaga	unico	9.8 LOA_S 1	Q200	25.00	11.71	15.54	14.32	-1.22	14.90	-0.64	12.70	15.57	0.000265	0.78	31.97	8.40	0.14
Loaga	unico	9.8 LOA_S 1	Q500	27.00	11.71	15.88	14.32	-1.56	14.90	-0.98	12.75	15.91	0.000246	0.78	34.79	8.40	0.14
Lisolo	unico	18 LIS_S 4	Q50	42.00	23.43	24.90	29.60	4.70	28.15	3.25	24.67	25.22	0.006156	2.50	16.78	14.02	0.73
Lisolo	unico	18 LIS_S 4	Q200	52.00	23.43	25.51	29.60	4.09	28.15	2.64	24.82	25.72	0.002628	2.04	25.44	14.50	0.49
Lisolo	unico	18 LIS_S 4	Q500	59.00	23.43	25.90	29.60	3.70	28.15	2.25	24.92	26.08	0.001821	1.89	31.24	14.82	0.42

HEC-RAS Plan: 01\_Loaga (Continued)

River	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
Lisolo	unico	17 LIS_S3	Q50	42.00	21.74	24.41	26.16	1.75	26.16	1.75	23.79	25.00	0.009475	3.40	12.34	4.67	0.67
Lisolo	unico	17 LIS_S3	Q200	52.00	21.74	24.94	26.16	1.22	26.16	1.22	24.10	25.57	0.009086	3.52	14.78	4.67	0.63
Lisolo	unico	17 LIS_S3	Q500	59.00	21.74	25.30	26.16	0.86	26.16	0.86	24.30	25.95	0.008884	3.58	16.47	4.67	0.61
Lisolo	unico	16 LIS_S2	Q50	42.00	17.04	19.78	21.63	1.85	21.60	1.82	19.42	20.66	0.016622	4.17	10.08	3.70	0.81
Lisolo	unico	16 LIS_S2	Q200	52.00	17.04	20.21	21.63	1.42	21.60	1.39	19.77	21.22	0.017595	4.45	11.68	3.70	0.80
Lisolo	unico	16 LIS_S2	Q500	59.00	17.04	20.50	21.63	1.13	21.60	1.10	20.01	21.59	0.018252	4.63	12.74	3.70	0.80
Lisolo	unico	15 LIS_S1	Q50	42.00	16.89	19.26	21.48	2.22	21.45	2.19	19.26	20.44	0.023938	4.81	8.74	3.71	1.00
Lisolo	unico	15 LIS_S1	Q200	52.00	16.89	19.62	21.48	1.86	21.45	1.83	19.62	20.98	0.025472	5.16	10.08	3.71	1.00
Lisolo	unico	15 LIS_S1	Q500	59.00	16.89	19.86	21.48	1.62	21.45	1.59	19.86	21.34	0.026524	5.38	10.96	3.71	1.00