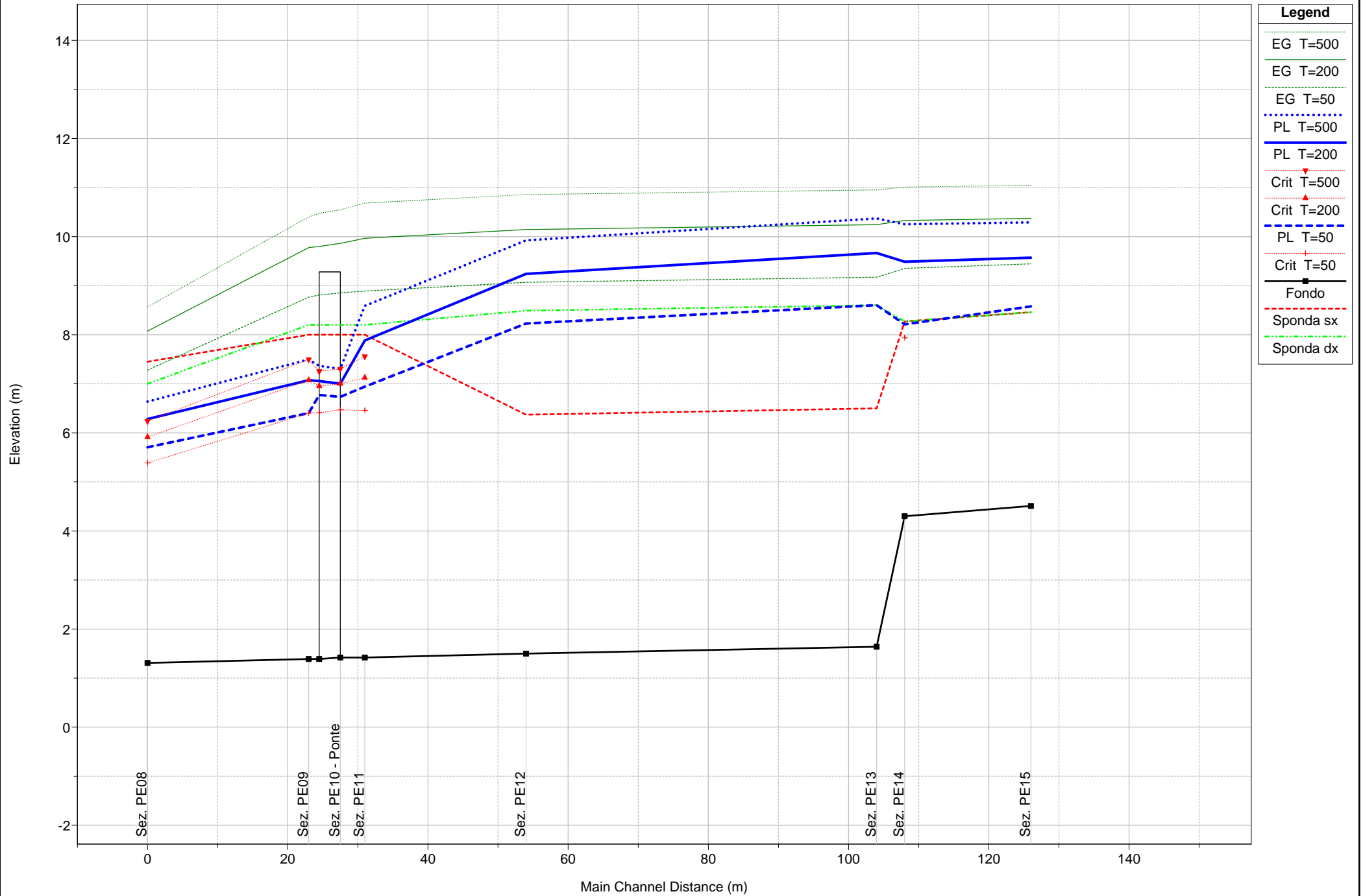
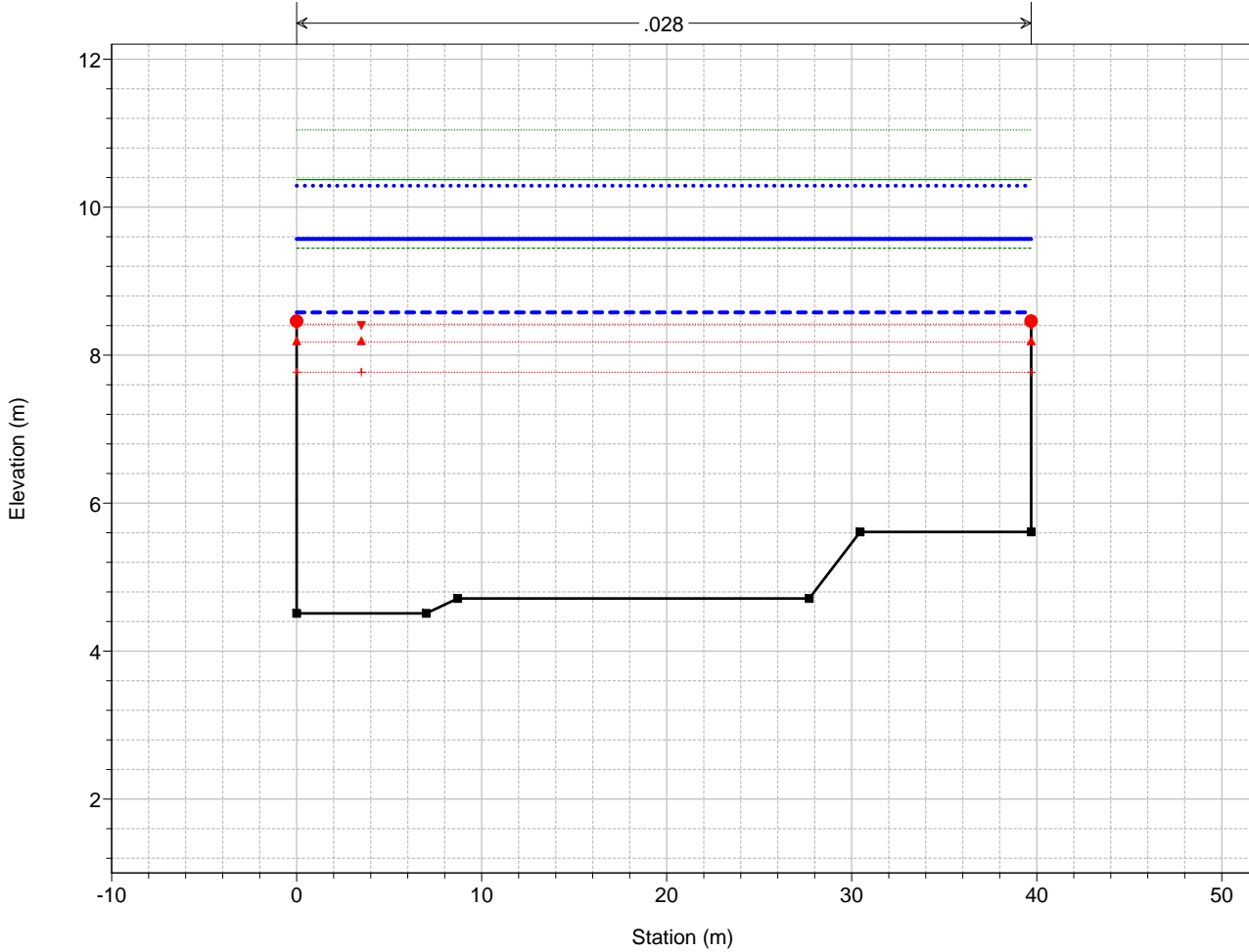


T. Petronio - Loc. Pian del Fiume



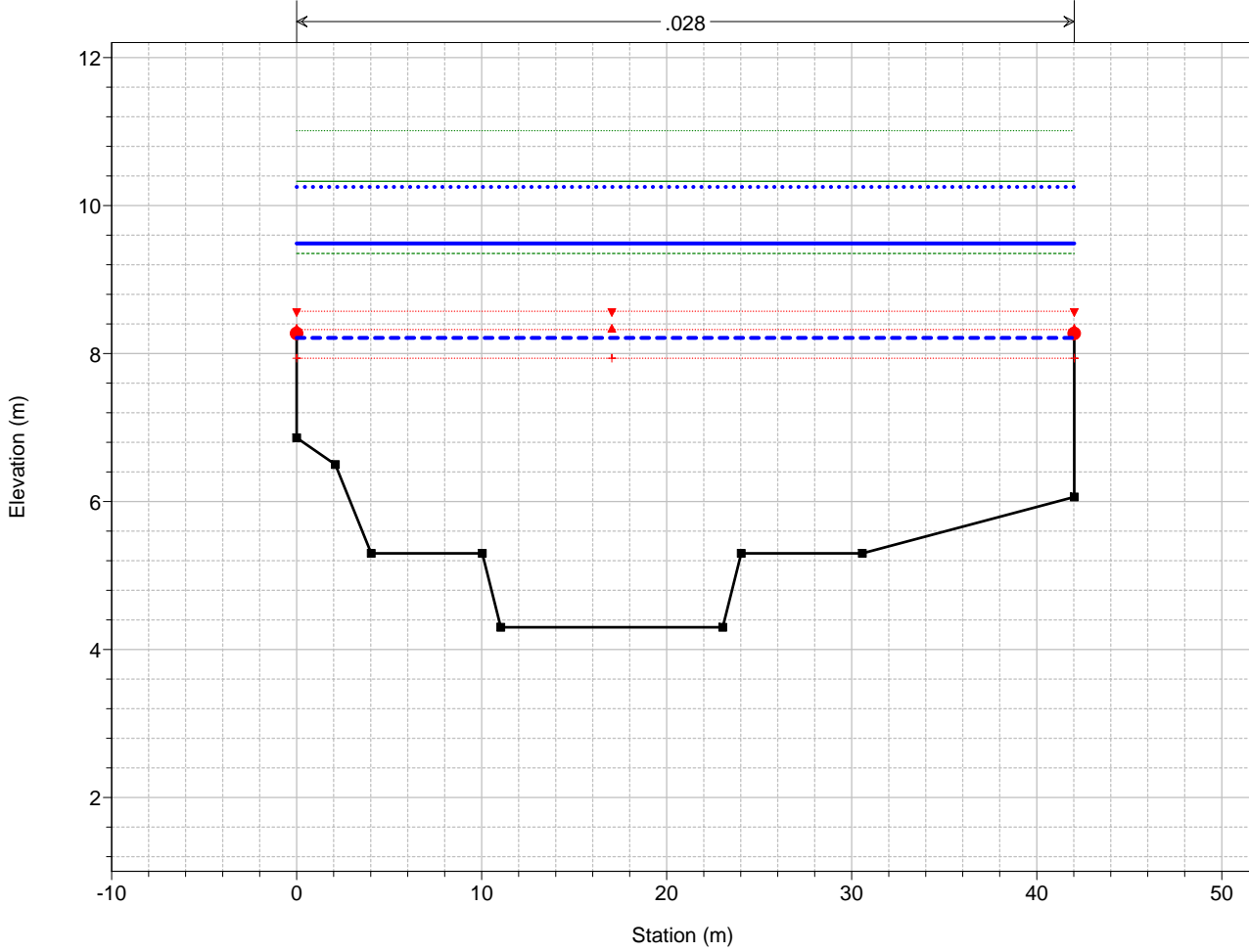
1 cm Horiz. = 7 m 1 cm Vert. = 1 m

T. Petronio - Loc. Pian del Fiume  
Sez. PE15



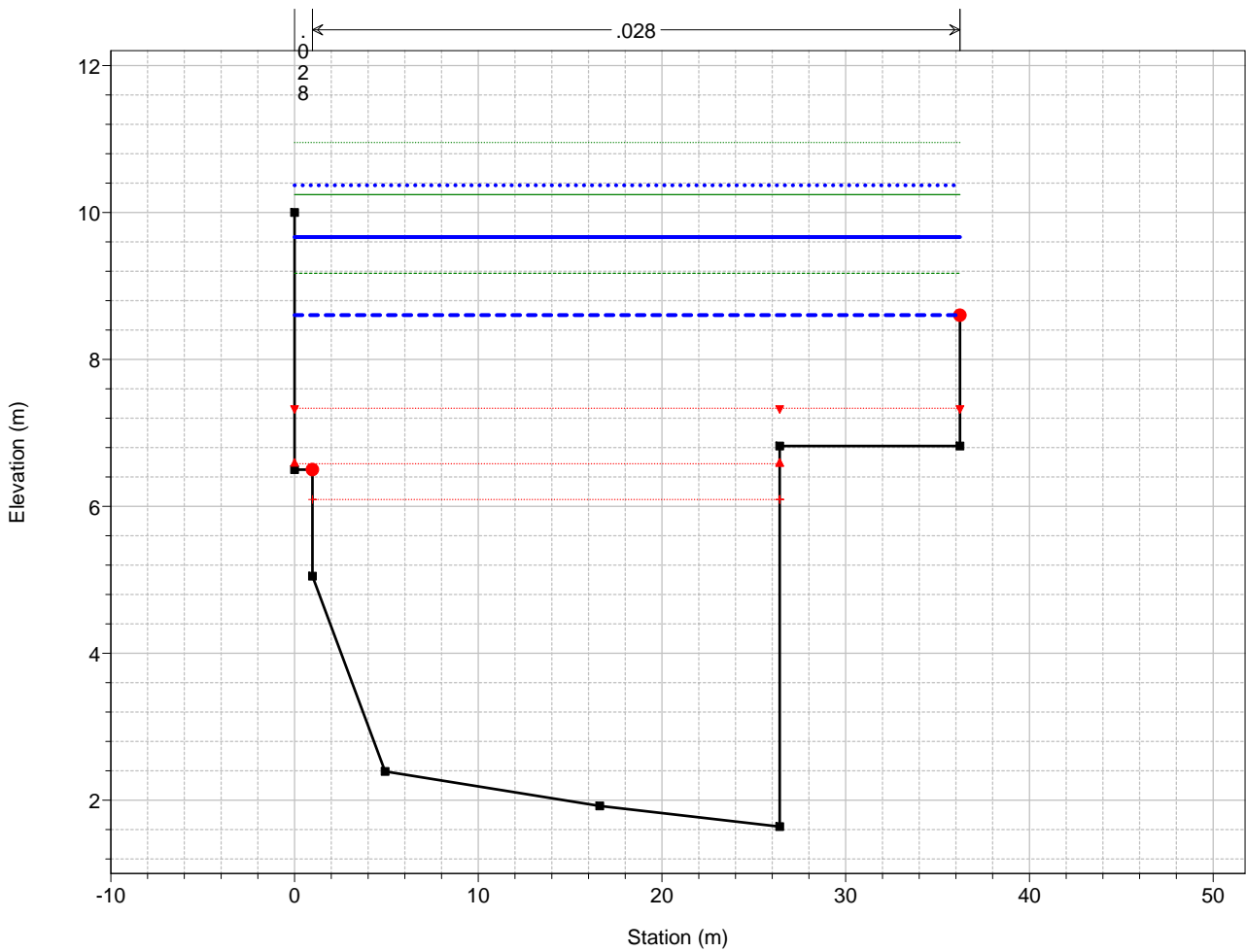
Legend	
EG T=500	(Green dotted line)
EG T=200	(Green dashed line)
PL T=500	(Blue dotted line)
PL T=200	(Blue solid line)
EG T=50	(Green dash-dot line)
PL T=50	(Blue dash-dot line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red triangle)
Crit T=50	(Red cross)
Fondo	(Black solid line with square markers)
Sponda	(Red circle)

T. Petronio - Loc. Pian del Fiume  
Sez. PE14



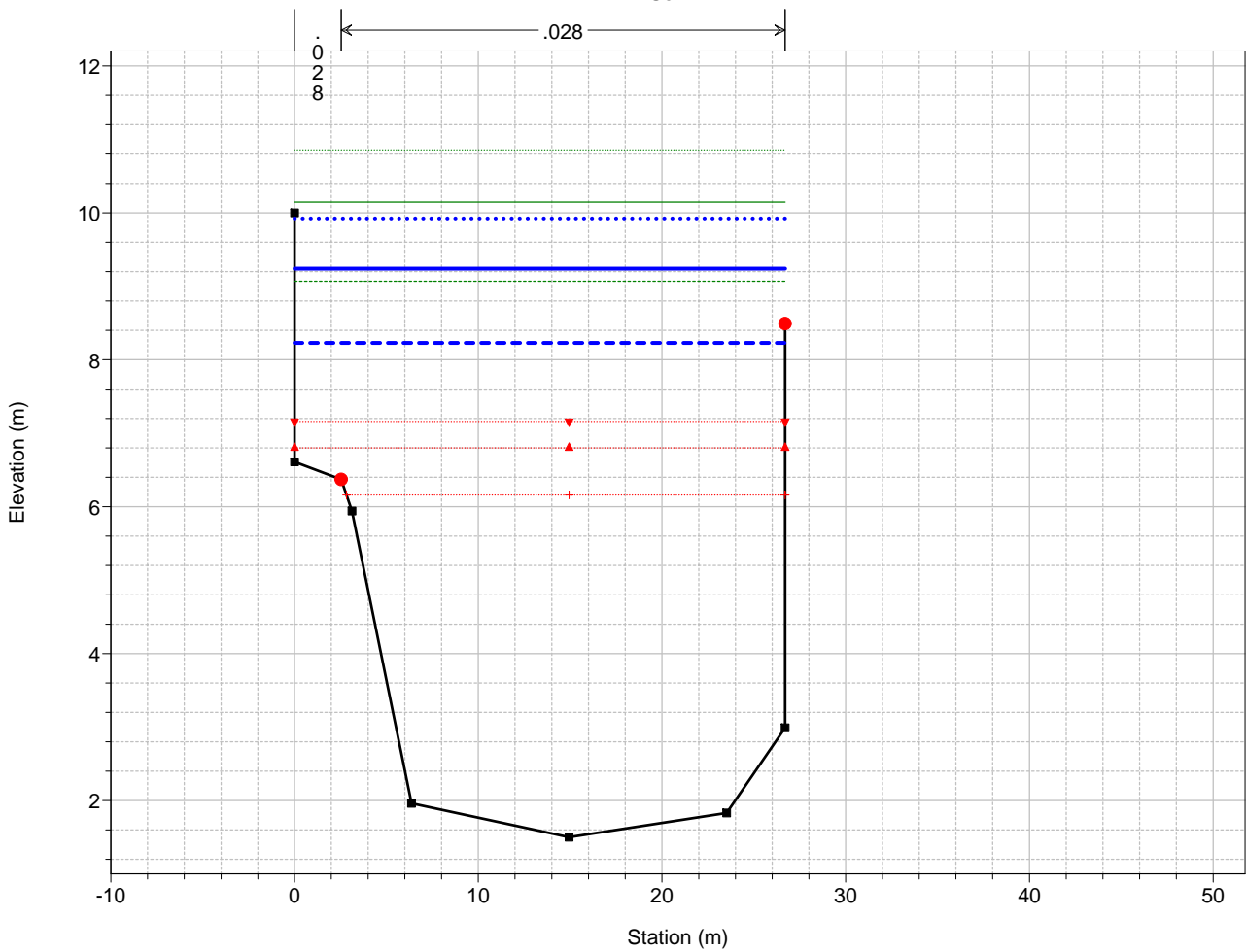
Legend	
EG T=500	(Green dotted line)
EG T=200	(Green dashed line)
PL T=500	(Blue dotted line)
PL T=200	(Blue solid line)
EG T=50	(Green dash-dot line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red triangle)
PL T=50	(Blue dash-dot line)
Crit T=50	(Red cross)
Fondo	(Black solid line with square markers)
Sponda	(Red circle)

T. Petronio - Loc. Pian del Fiume  
Sez. PE13



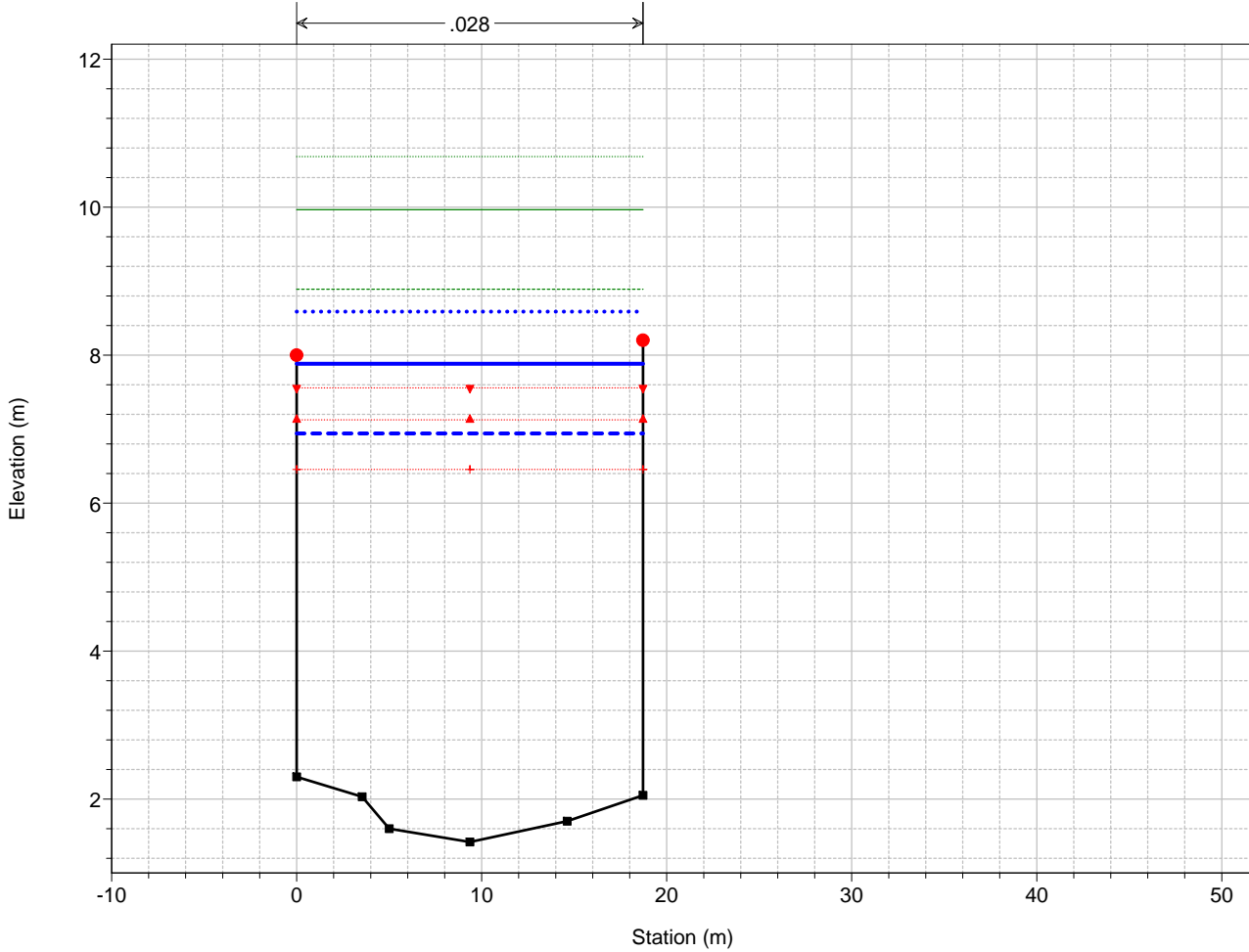
Legend	
EG T=500	(Green dotted line)
PL T=500	(Blue dotted line)
EG T=200	(Green solid line)
PL T=200	(Blue solid line)
EG T=50	(Green dashed line)
PL T=50	(Blue dashed line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red triangle)
Crit T=50	(Red plus sign)
Fondo	(Black line with square markers)
Sponda	(Red line with circular markers)

T. Petronio - Loc. Pian del Fiume  
Sez. PE12



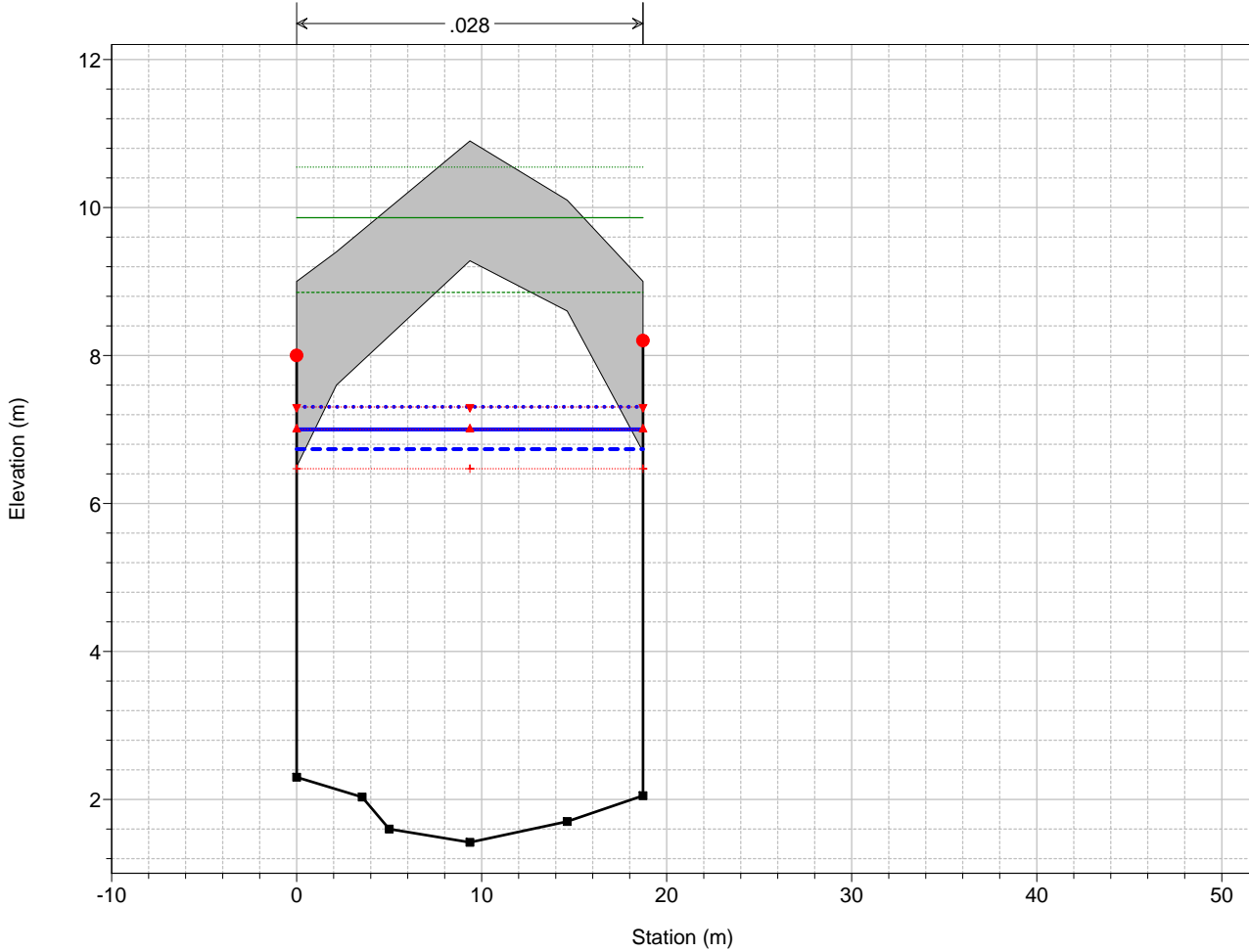
Legend	
EG T=500	(Green dotted line)
EG T=200	(Green solid line)
PL T=500	(Blue dotted line)
PL T=200	(Blue solid line)
EG T=50	(Green dashed line)
PL T=50	(Blue dashed line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red triangle)
Crit T=50	(Red plus sign)
Fondo	(Black line with square markers)
Sponda	(Red line with circular markers)

T. Petronio - Loc. Pian del Fiume  
Sez. PE11



Legend	
EG T=500	— (dotted green)
EG T=200	— (dotted light green)
EG T=50	— (dotted blue)
PL T=500	— (dotted blue)
PL T=200	— (solid blue)
Crit T=500	— (dotted red) ▼
Crit T=200	— (dotted red) ▲
PL T=50	— (dashed blue)
Crit T=50	— (dotted red) +
Fondo	— (solid black) ■
Sponda	— (solid black) ●

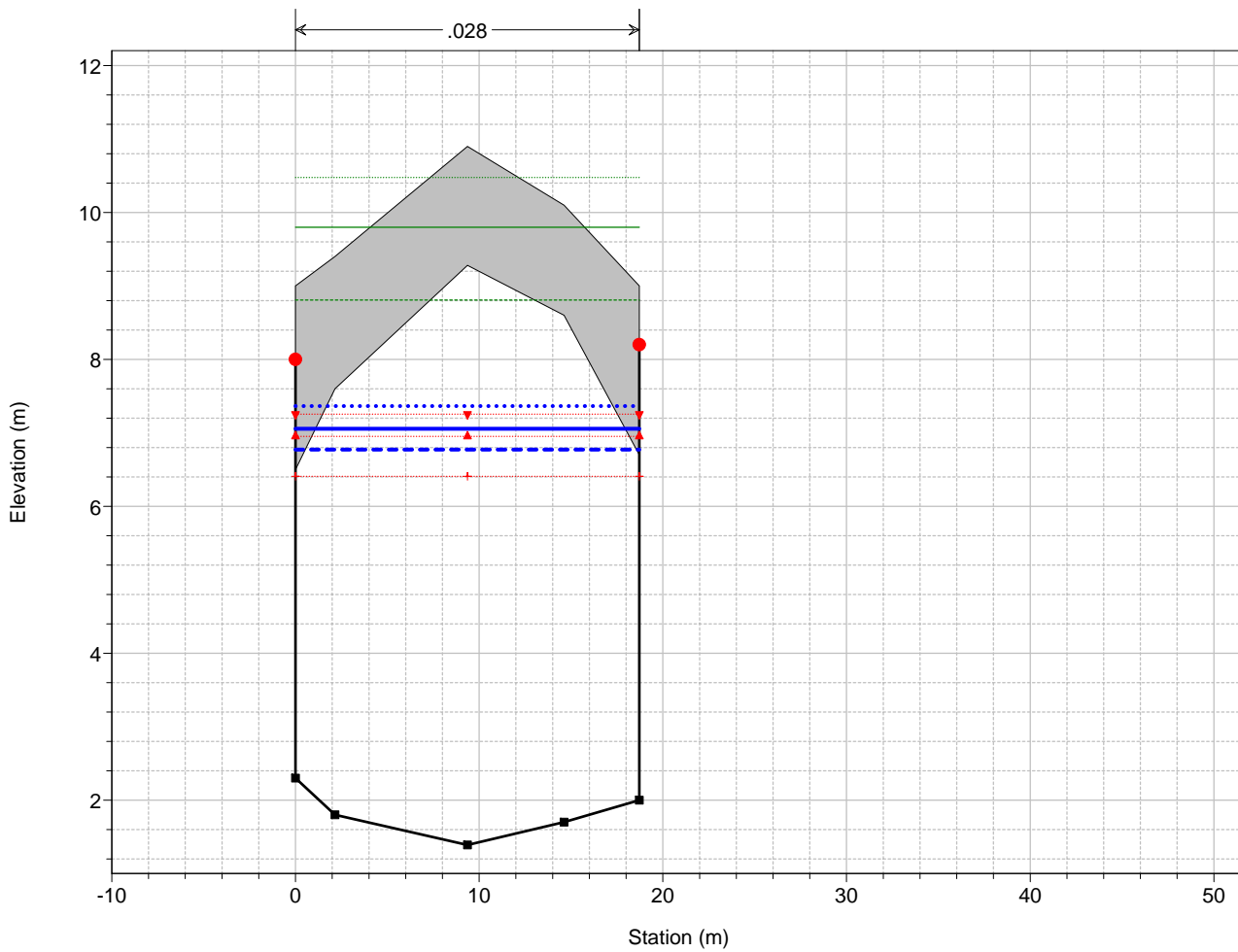
T. Petronio - Loc. Pian del Fiume  
Sez. PE10 - Ponte



Legend	
EG T=500	— (dotted green)
EG T=200	— (dotted light green)
EG T=50	— (dotted blue)
PL T=500	— (dotted blue)
Crit T=500	— (dotted red) ▼
Crit T=200	— (dotted red) ▲
PL T=200	— (solid blue)
PL T=50	— (dashed blue)
Crit T=50	— (dotted red) +
Fondo	— (solid black) ■
Sponda	— (solid black) ●

T. Petronio - Loc. Pian del Fiume

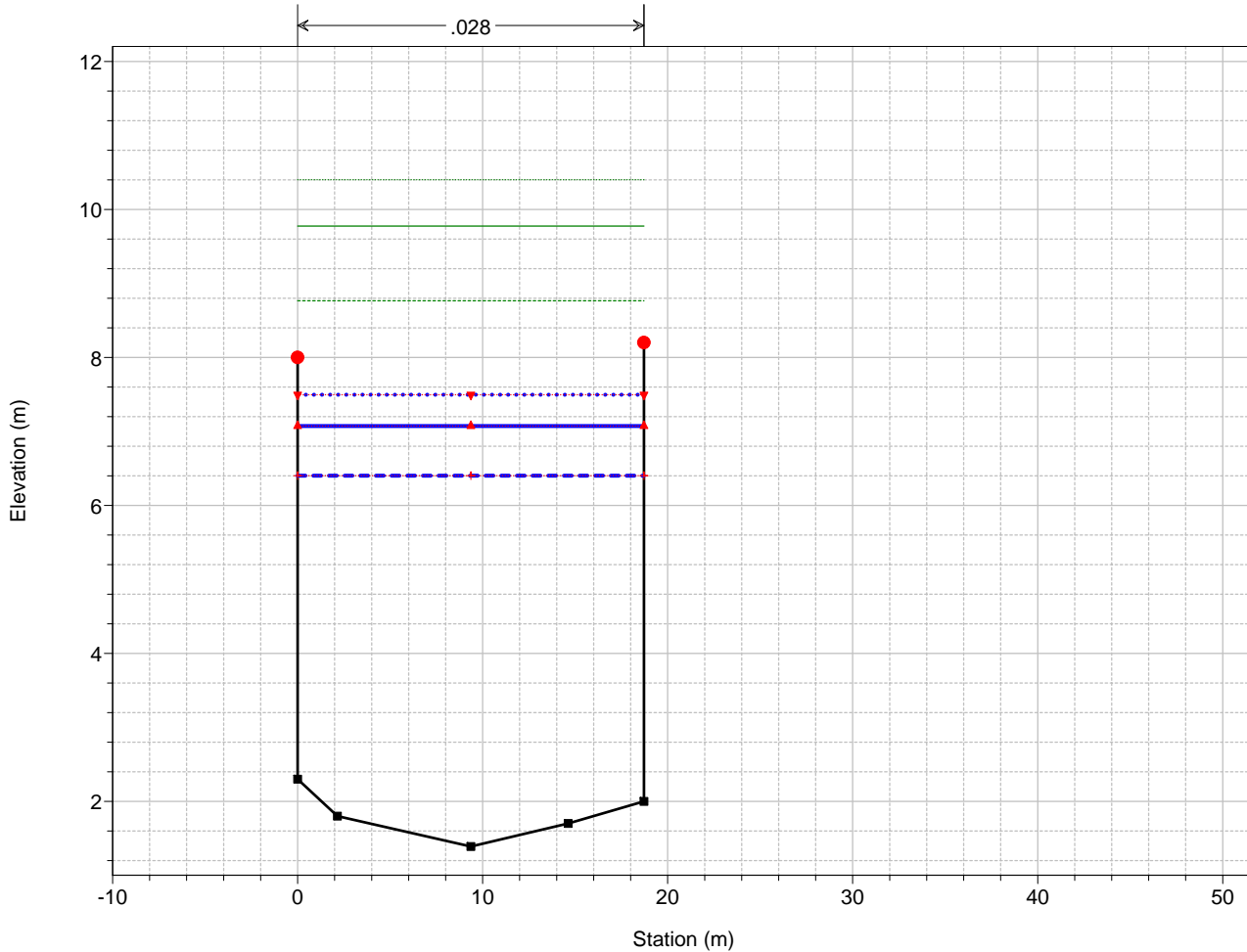
Sez. PE10 - Ponte



Legend	
EG T=500	(Dotted Green Line)
EG T=200	(Solid Green Line)
EG T=50	(Dotted Blue Line)
PL T=500	(Dotted Blue Line)
Crit T=500	(Red Inverted Triangle)
PL T=200	(Solid Blue Line)
Crit T=200	(Red Triangle)
PL T=50	(Dashed Blue Line)
Crit T=50	(Red Plus Sign)
Fondo	(Black Line with Square)
Sponda	(Red Circle)

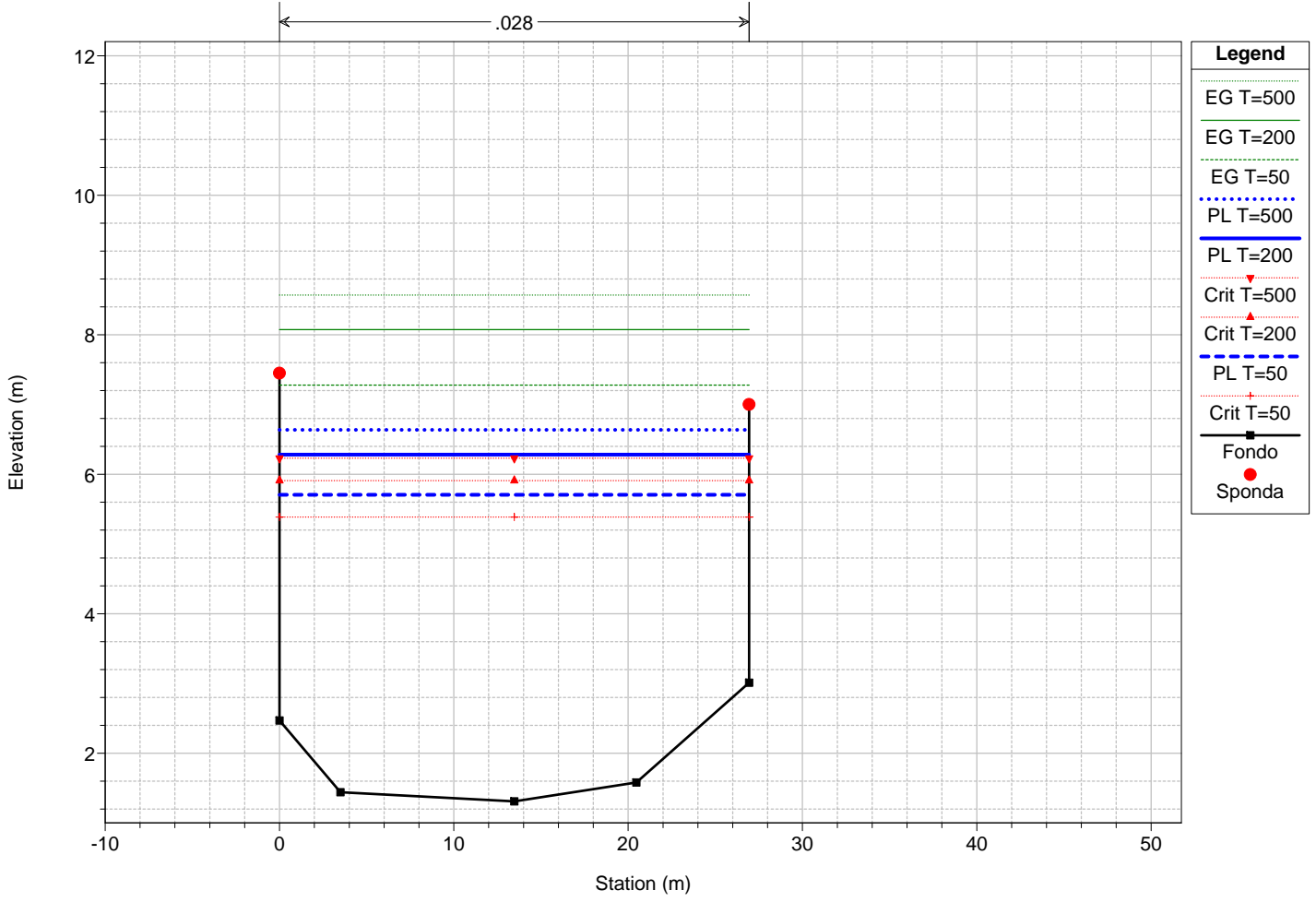
T. Petronio - Loc. Pian del Fiume

Sez. PE09



Legend	
EG T=500	(Dotted Green Line)
EG T=200	(Solid Green Line)
EG T=50	(Dotted Blue Line)
PL T=500	(Dotted Blue Line)
Crit T=500	(Red Inverted Triangle)
Crit T=200	(Red Triangle)
PL T=200	(Solid Blue Line)
PL T=50	(Dashed Blue Line)
Crit T=50	(Red Plus Sign)
Fondo	(Black Line with Square)
Sponda	(Red Circle)

T. Petronio - Loc. Pian del Fiume  
Sez. PE08



HEC-RAS Plan: Pp2 River: T. Petronio Reach: Tratto 2

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
Tratto 2	15	T=50	601.00	4.51	8.58	8.46	-0.12	8.46	-0.12	7.77	9.45	0.002954	4.13	145.52	39.70	0.69
Tratto 2	15	T=200	734.00	4.51	9.57	8.46	-1.11	8.46	-1.11	8.18	10.37	0.002094	3.97	184.96	39.70	0.59
Tratto 2	15	T=500	821.00	4.51	10.29	8.46	-1.83	8.46	-1.83	8.42	11.04	0.001687	3.85	213.51	39.70	0.53
Tratto 2	14	T=50	601.00	4.30	8.21	8.27	0.06	8.27	0.06	7.94	9.35	0.004635	4.73	126.98	42.03	0.87
Tratto 2	14	T=200	734.00	4.30	9.49	8.27	-1.22	8.27	-1.22	8.32	10.33	0.002294	4.06	180.60	42.03	0.63
Tratto 2	14	T=500	821.00	4.30	10.25	8.27	-1.98	8.27	-1.98	8.57	11.01	0.001731	3.86	212.75	42.03	0.55
Tratto 2	13	T=50	601.00	1.64	8.60	6.50	-2.10	8.60	0.00	6.09	9.17	0.001371	3.35	181.06	36.22	0.47
Tratto 2	13	T=200	734.00	1.64	9.67	6.50	-3.17	8.60	-1.07	6.58	10.24	0.001119	3.38	219.52	36.22	0.44
Tratto 2	13	T=500	821.00	1.64	10.37	6.50	-3.87	8.60	-1.77	7.34	10.95	0.000994	3.39	245.08	36.22	0.41
Tratto 2	12	T=50	601.00	1.50	8.23	6.37	-1.86	8.49	0.26	6.16	9.07	0.001707	4.08	150.01	26.70	0.53
Tratto 2	12	T=200	734.00	1.50	9.24	6.37	-2.87	8.49	-0.75	6.80	10.15	0.001566	4.25	177.02	26.70	0.51
Tratto 2	12	T=500	821.00	1.50	9.92	6.37	-3.55	8.49	-1.43	7.16	10.86	0.001471	4.32	195.28	26.70	0.50
Tratto 2	11	T=50	601.00	1.42	6.94	8.00	1.06	8.20	1.26	6.45	8.89	0.005806	6.19	97.16	18.72	0.87
Tratto 2	11	T=200	734.00	1.42	7.88	8.00	0.12	8.20	0.32	7.12	9.97	0.005413	6.39	114.79	18.72	0.82
Tratto 2	11	T=500	821.00	1.42	8.59	8.00	-0.59	8.20	-0.39	7.56	10.68	0.005008	6.42	127.97	18.72	0.78
Tratto 2	10		Bridge													
Tratto 2	9	T=50	601.00	1.39	6.40	8.00	1.60	8.20	1.80	6.40	8.77	0.007622	6.81	88.21	18.72	1.00
Tratto 2	9	T=200	734.00	1.39	7.07	8.00	0.93	8.20	1.13	7.07	9.77	0.007772	7.28	100.79	18.72	1.00
Tratto 2	9	T=500	821.00	1.39	7.50	8.00	0.50	8.20	0.70	7.50	10.40	0.007860	7.55	108.69	18.72	1.00
Tratto 2	8	T=50	601.00	1.31	5.71	7.45	1.74	7.00	1.29	5.39	7.28	0.005001	5.55	108.21	26.94	0.88
Tratto 2	8	T=200	734.00	1.31	6.28	7.45	1.17	7.00	0.72	5.91	8.07	0.005000	5.93	123.68	26.94	0.88
Tratto 2	8	T=500	821.00	1.31	6.64	7.45	0.81	7.00	0.36	6.23	8.57	0.005010	6.16	133.29	26.94	0.88

Plan: Pp2 T. Petronio Tratto 2 RS: 10 Profile: T=50

E.G. US. (m)	8.89	Element	Inside BR US	Inside BR DS
W.S. US. (m)	6.94	E.G. Elev (m)	8.85	8.81
Q Total (m3/s)	601.00	W.S. Elev (m)	6.73	6.77
Q Bridge (m3/s)	601.00	Crit W.S. (m)	6.47	6.41
Q Weir (m3/s)		Max Chl Dpth (m)	5.31	5.38
Weir Sta Lft (m)		Vel Total (m/s)	6.45	6.32
Weir Sta Rgt (m)		Flow Area (m2)	93.23	95.07
Weir Submerg		Froude # Chl	0.89	0.87
Weir Max Depth (m)		Specif Force (m3)	627.80	629.30
Min El Weir Flow (m)	9.00	Hydr Depth (m)	5.13	5.27
Min El Prs (m)	9.28	W.P. Total (m)	28.27	28.48
Delta EG (m)	0.13	Conv. Total (m3/s)	7377.6	7584.9
Delta WS (m)	0.54	Top Width (m)	18.19	18.03
BR Open Area (m2)	121.61	Frctn Loss (m)	0.02	0.01
BR Open Vel (m/s)	6.45	C & E Loss (m)	0.02	0.03
Coef of Q		Shear Total (N/m2)	214.64	205.55
Br Sel Method	Energy only	Power Total (N/m s)	0.00	0.00

Plan: Pp2 T. Petronio Tratto 2 RS: 10 Profile: T=200

E.G. US. (m)	9.97	Element	Inside BR US	Inside BR DS
W.S. US. (m)	7.88	E.G. Elev (m)	9.86	9.80
Q Total (m3/s)	734.00	W.S. Elev (m)	7.00	7.06
Q Bridge (m3/s)	734.00	Crit W.S. (m)	7.00	6.95
Q Weir (m3/s)		Max Chl Dpth (m)	5.58	5.67
Weir Sta Lft (m)		Vel Total (m/s)	7.50	7.34
Weir Sta Rgt (m)		Flow Area (m2)	97.92	100.04
Weir Submerg		Froude # Chl	1.01	0.98
Weir Max Depth (m)		Specif Force (m3)	819.07	818.70
Min El Weir Flow (m)	9.00	Hydr Depth (m)	5.73	5.93
Min El Prs (m)	9.28	W.P. Total (m)	29.48	29.78
Delta EG (m)	0.19	Conv. Total (m3/s)	7784.4	8014.2
Delta WS (m)	0.81	Top Width (m)	17.09	16.86
BR Open Area (m2)	121.61	Frctn Loss (m)	0.03	0.01
BR Open Vel (m/s)	7.50	C & E Loss (m)	0.04	0.01
Coef of Q		Shear Total (N/m2)	289.57	276.34
Br Sel Method	Energy only	Power Total (N/m s)	0.00	0.00

Plan: Pp2 T. Petronio Tratto 2 RS: 10 Profile: T=500

E.G. US. (m)	10.68	Element	Inside BR US	Inside BR DS
W.S. US. (m)	8.59	E.G. Elev (m)	10.55	10.48
Q Total (m3/s)	821.00	W.S. Elev (m)	7.31	7.36
Q Bridge (m3/s)	821.00	Crit W.S. (m)	7.30	7.25
Q Weir (m3/s)		Max Chl Dpth (m)	5.89	5.97
Weir Sta Lft (m)		Vel Total (m/s)	7.98	7.82
Weir Sta Rgt (m)		Flow Area (m2)	102.94	105.03
Weir Submerg		Froude # Chl	1.05	1.02
Weir Max Depth (m)		Specif Force (m3)	956.26	955.40
Min El Weir Flow (m)	9.00	Hydr Depth (m)	6.50	6.73
Min El Prs (m)	9.28	W.P. Total (m)	30.88	31.19
Delta EG (m)	0.28	Conv. Total (m3/s)	8204.6	8428.2
Delta WS (m)	1.09	Top Width (m)	15.84	15.60
BR Open Area (m2)	121.61	Frctn Loss (m)	0.03	0.01
BR Open Vel (m/s)	7.98	C & E Loss (m)	0.04	0.06
Coef of Q		Shear Total (N/m2)	327.37	313.40
Br Sel Method	Energy only	Power Total (N/m s)	0.00	0.00