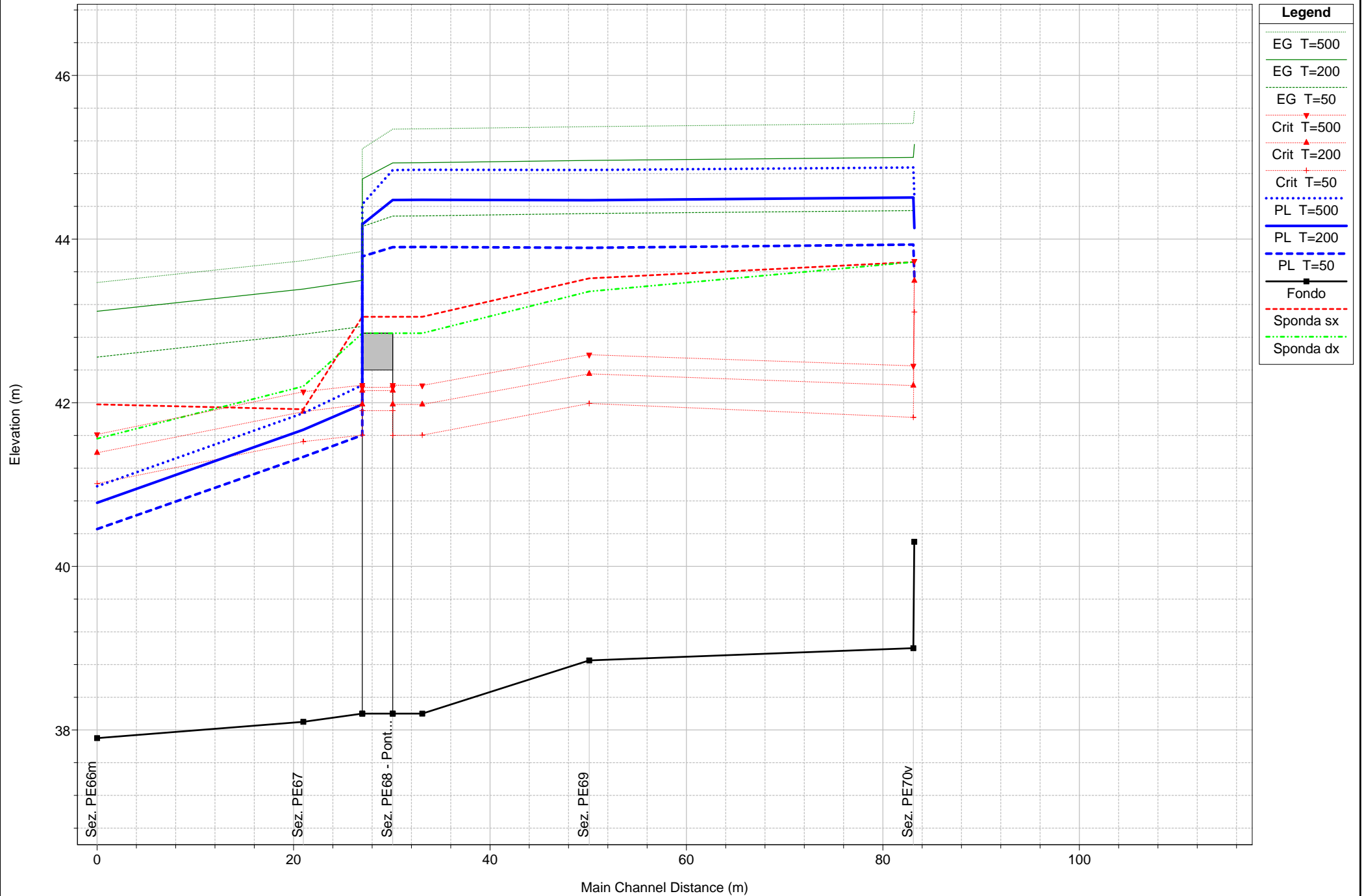
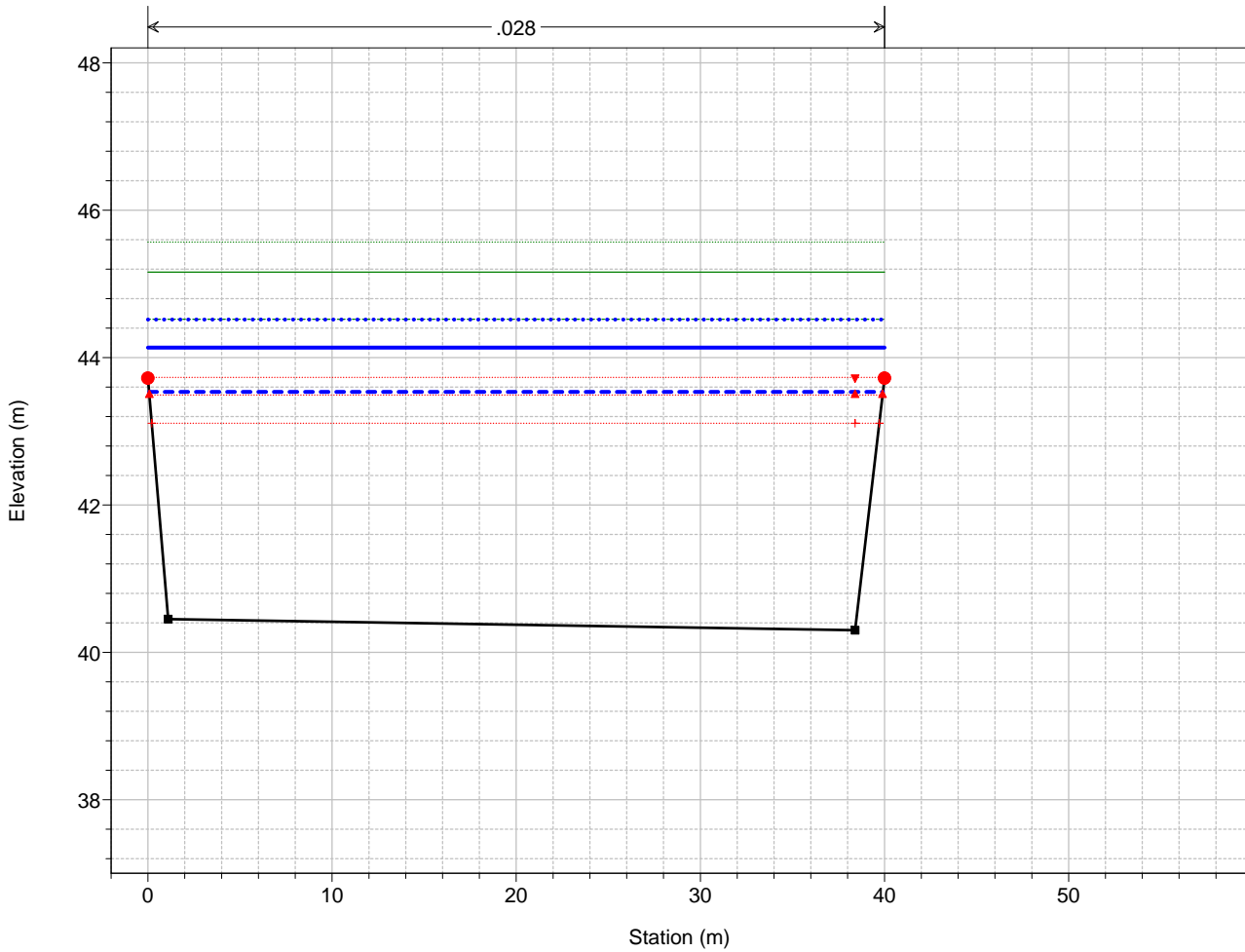


T. Petronio - Ponte Villa Ricci

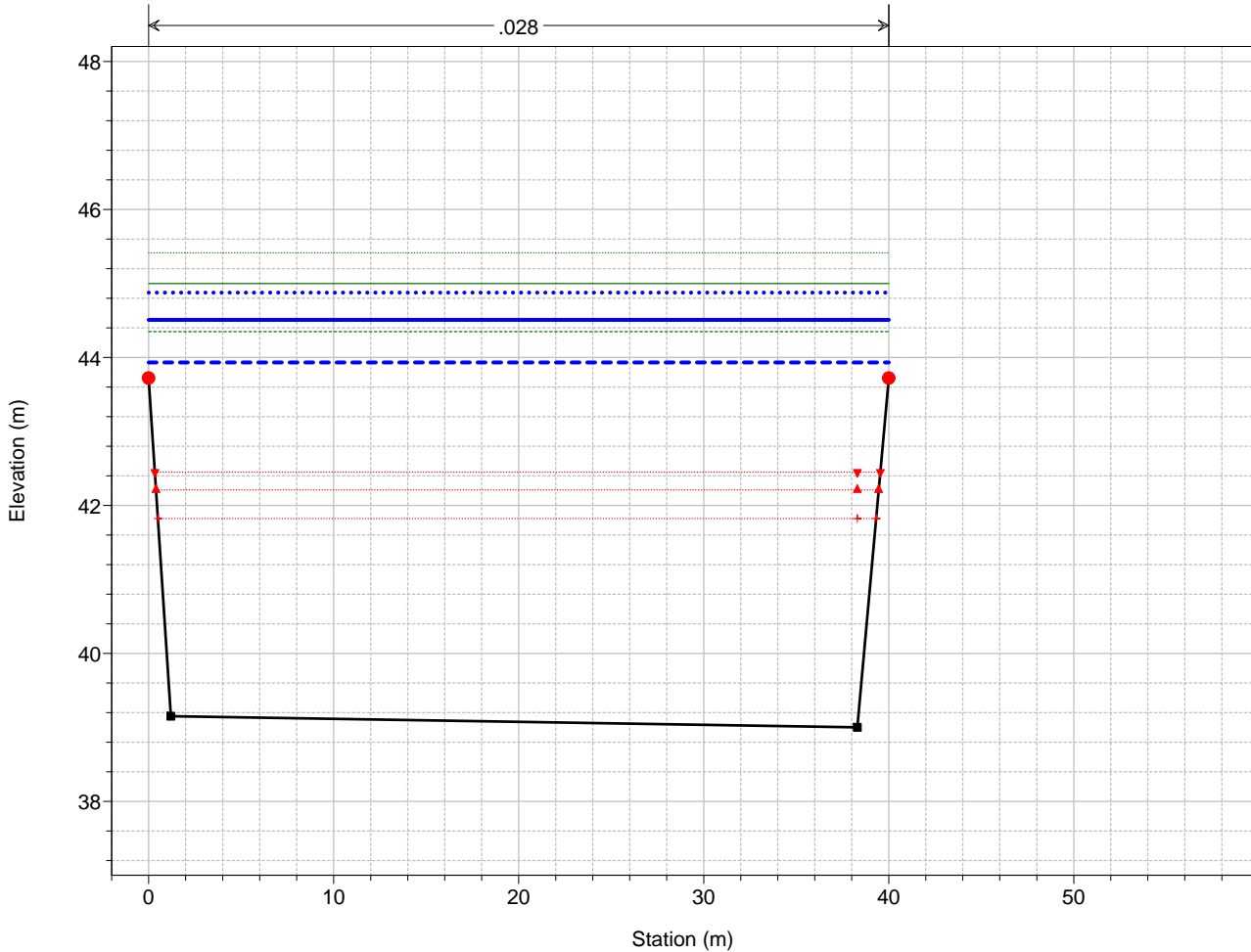


1 cm Horiz. = 5 m 1 cm Vert. = 0.6 m

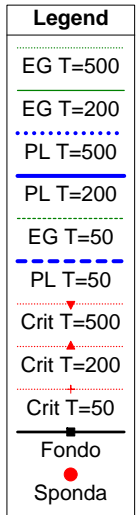
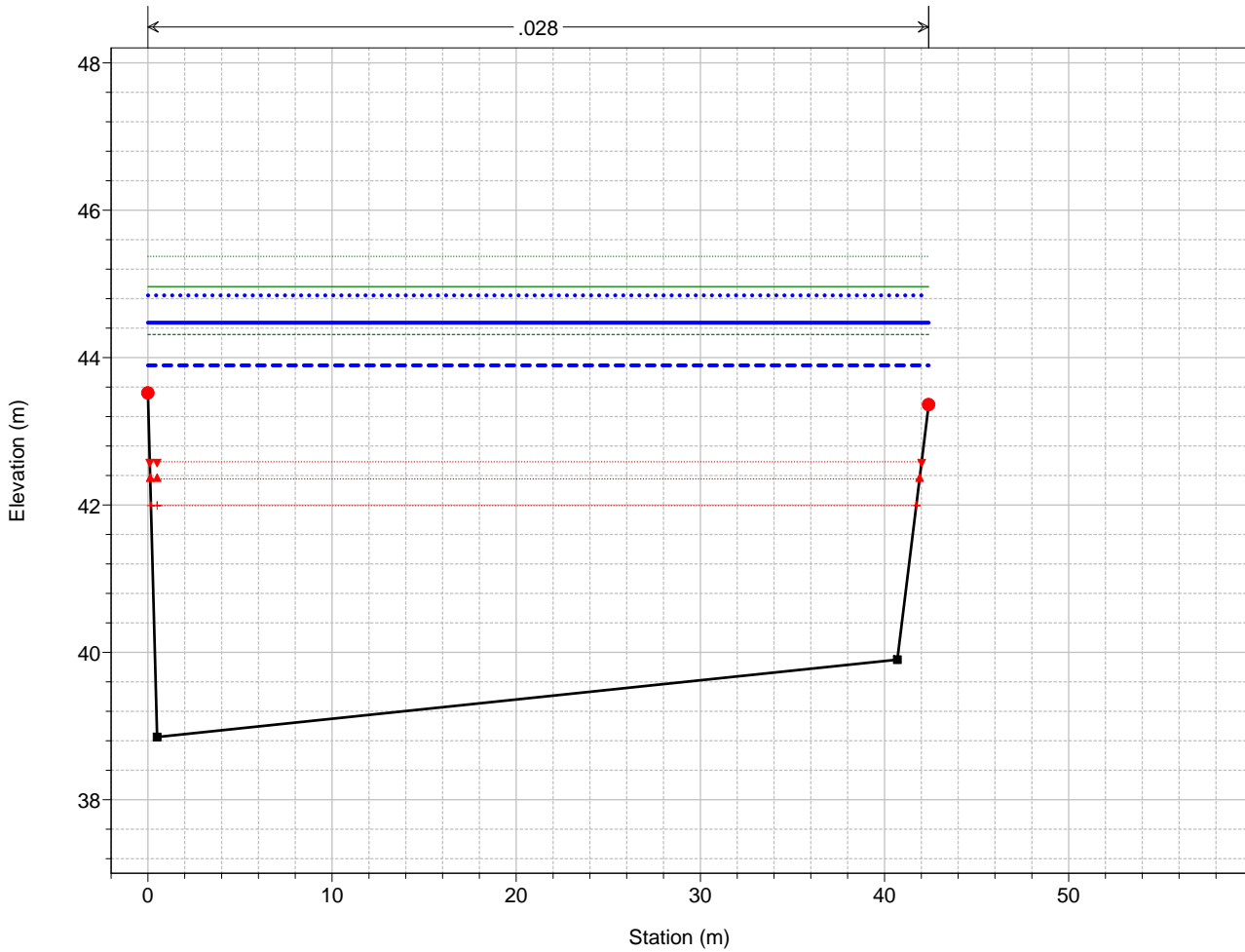
T. Petronio - Ponte Villa Ricci
Sez. PE70m



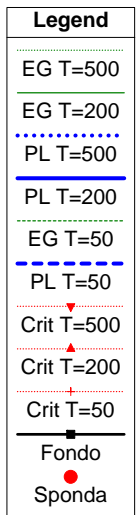
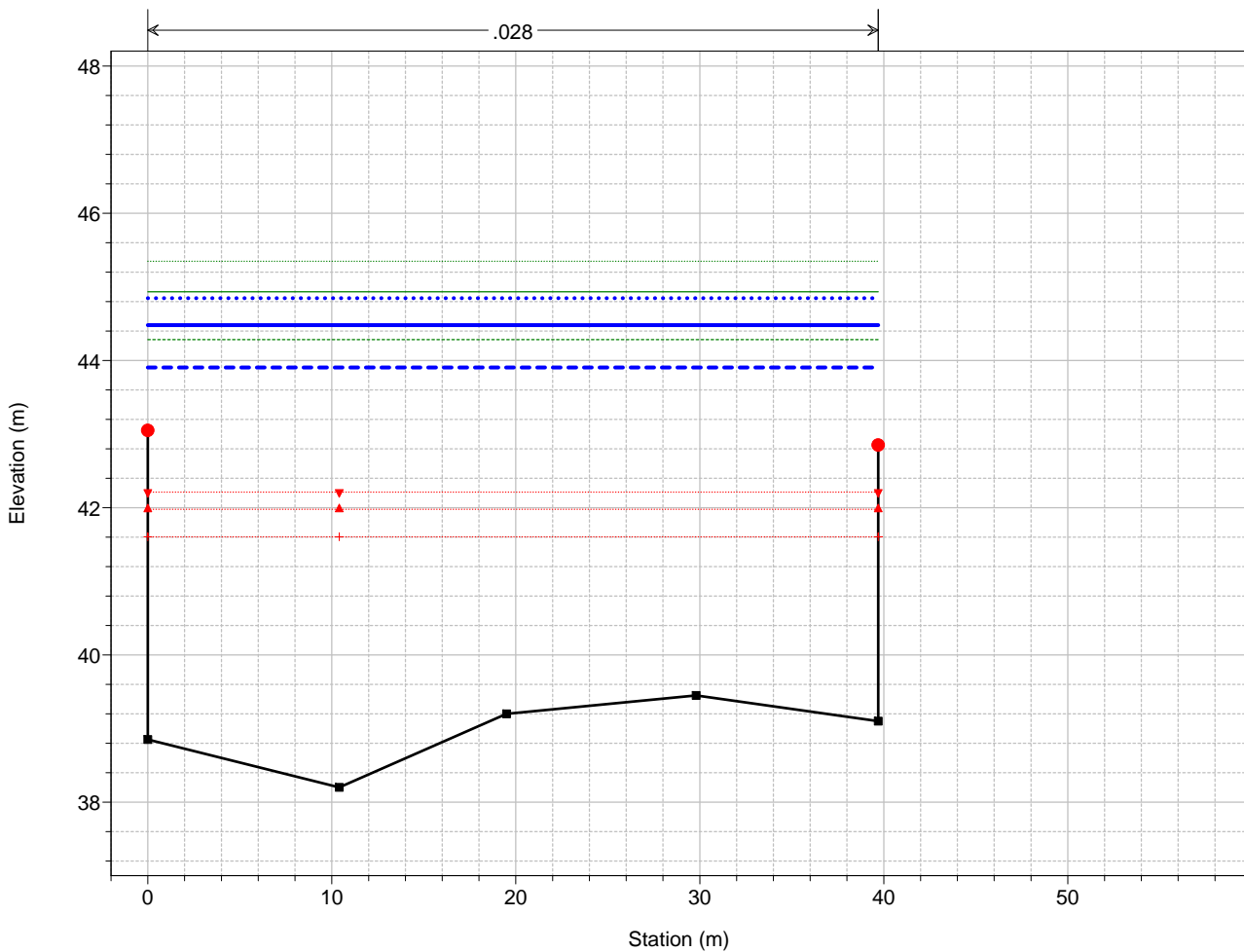
T. Petronio - Ponte Villa Ricci
Sez. PE70v



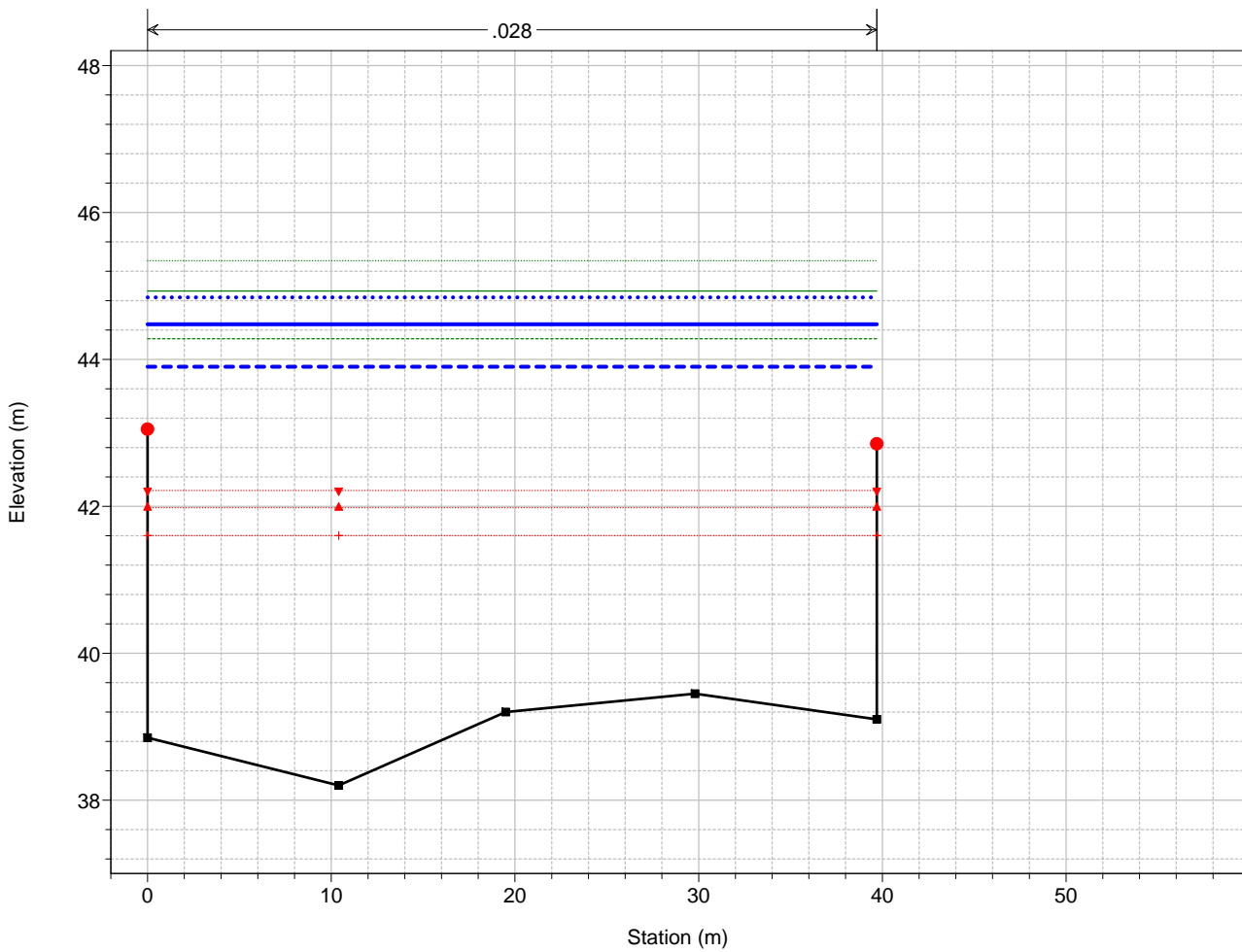
T. Petronio - Ponte Villa Ricci
Sez. PE69



T. Petronio - Ponte Villa Ricci

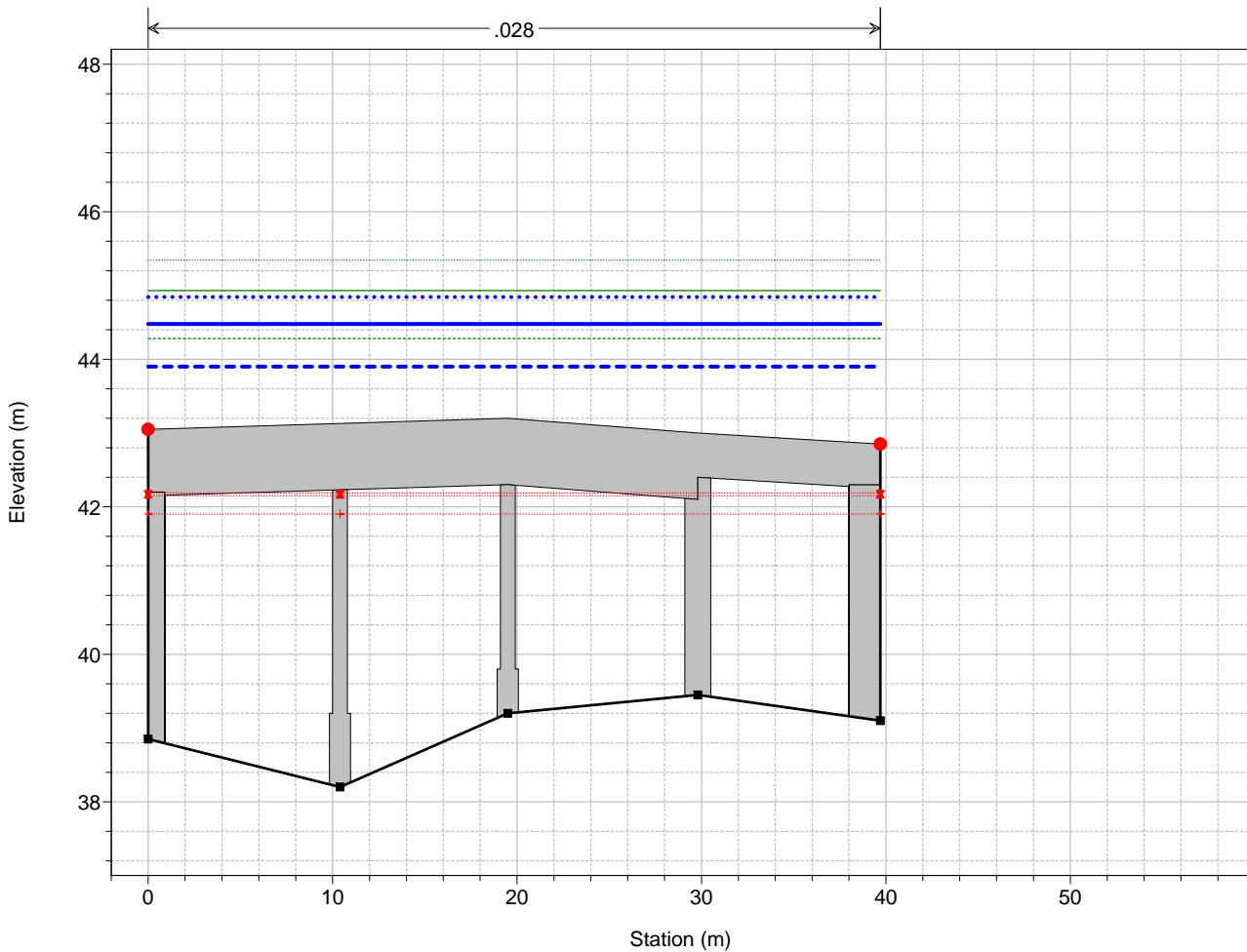


T. Petronio - Ponte Villa Ricci



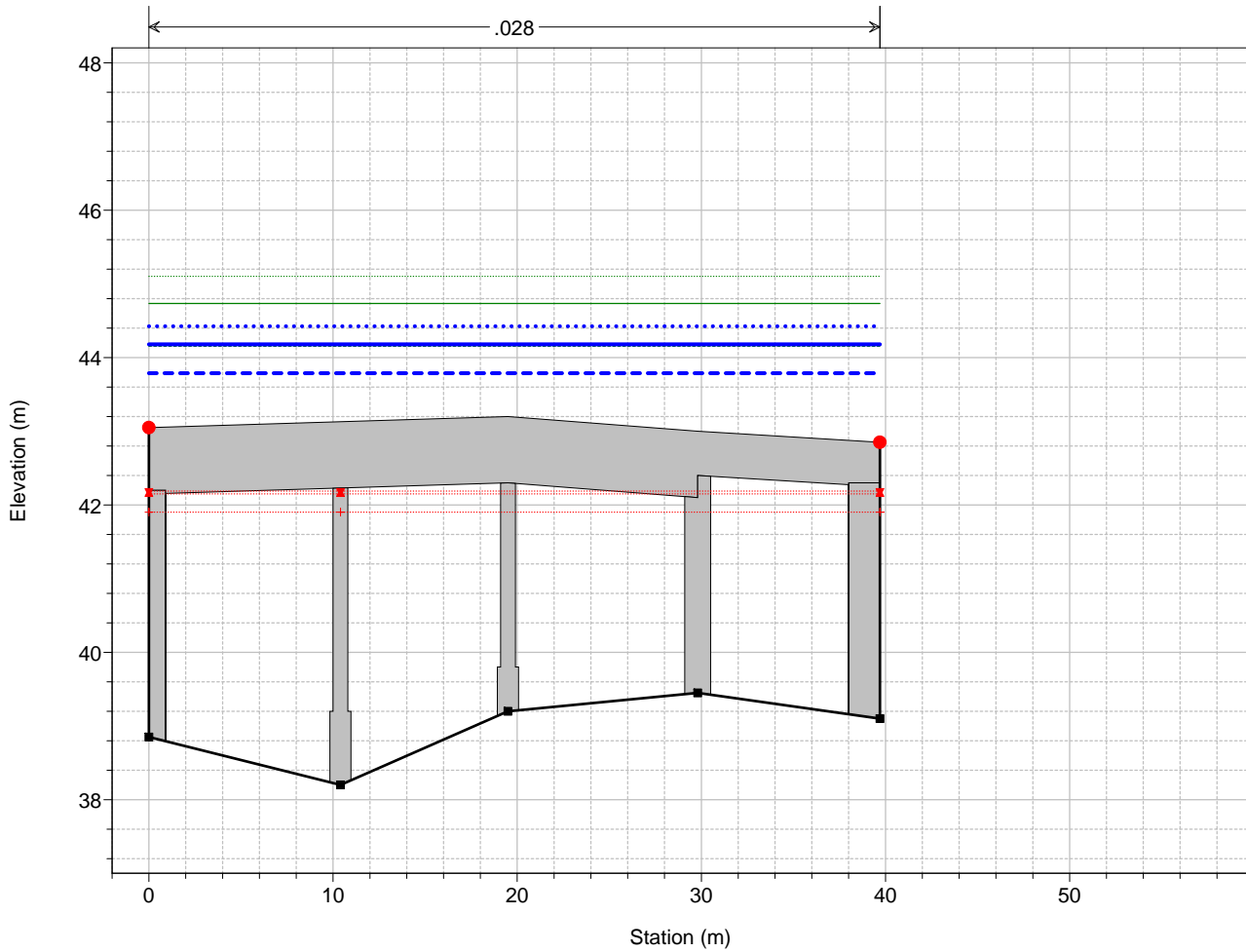
Legend	
EG T=500	(Green dotted line)
EG T=200	(Blue dotted line)
PL T=500	(Blue solid line)
PL T=200	(Blue dashed line)
EG T=50	(Green dotted line)
PL T=50	(Blue solid line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red upright triangle)
Crit T=50	(Red cross)
Fondo	(Black line with square markers)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

T. Petronio - Ponte Villa Ricci
Sez. PE68 - Ponte Villa Ricci



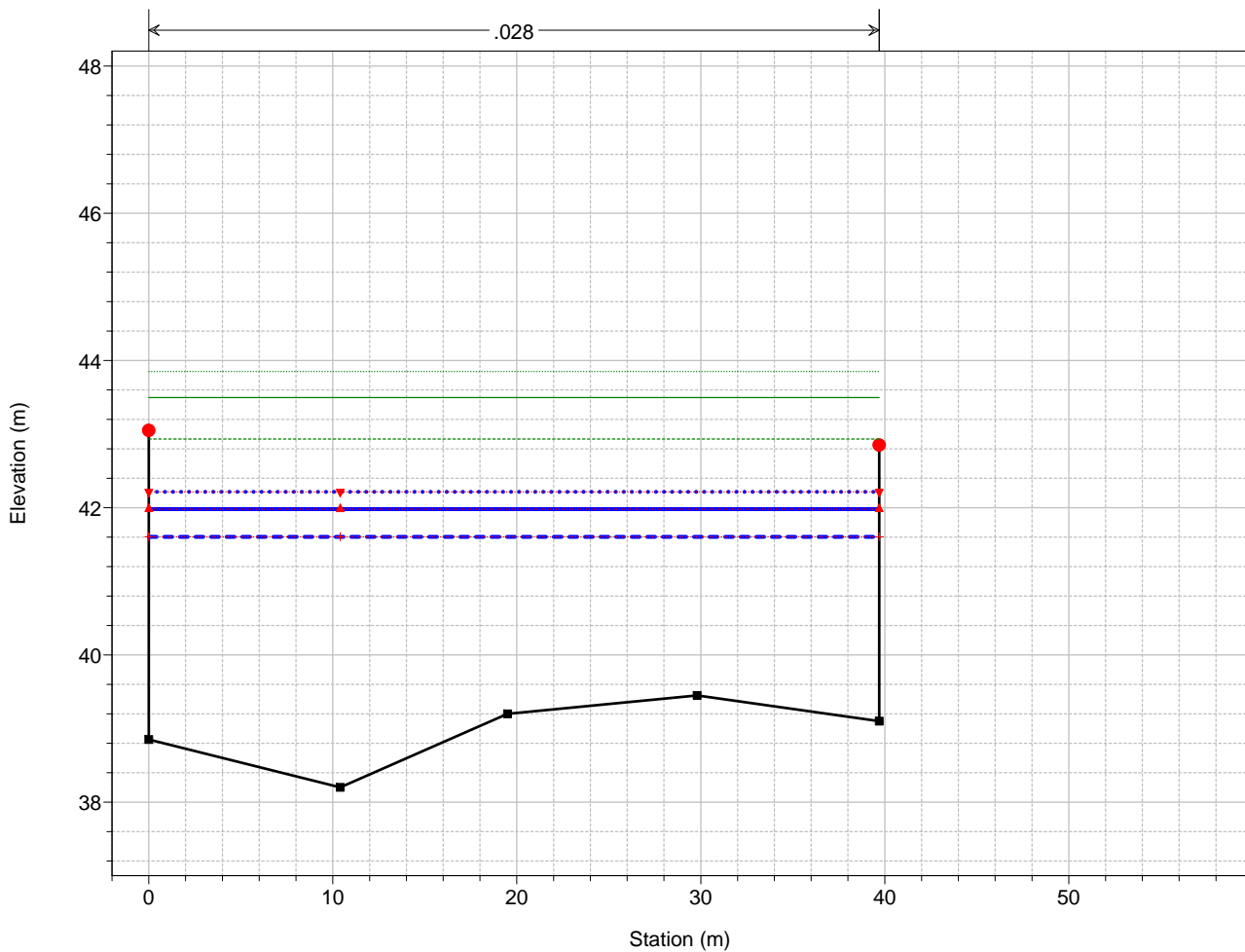
Legend	
EG T=500	(Green dotted line)
EG T=200	(Blue dotted line)
PL T=500	(Blue solid line)
PL T=200	(Blue dashed line)
EG T=50	(Green dotted line)
PL T=50	(Blue solid line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red upright triangle)
Crit T=50	(Red cross)
Fondo	(Black line with square markers)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

T. Petronio - Ponte Villa Ricci
Sez. PE68 - Ponte Villa Ricci



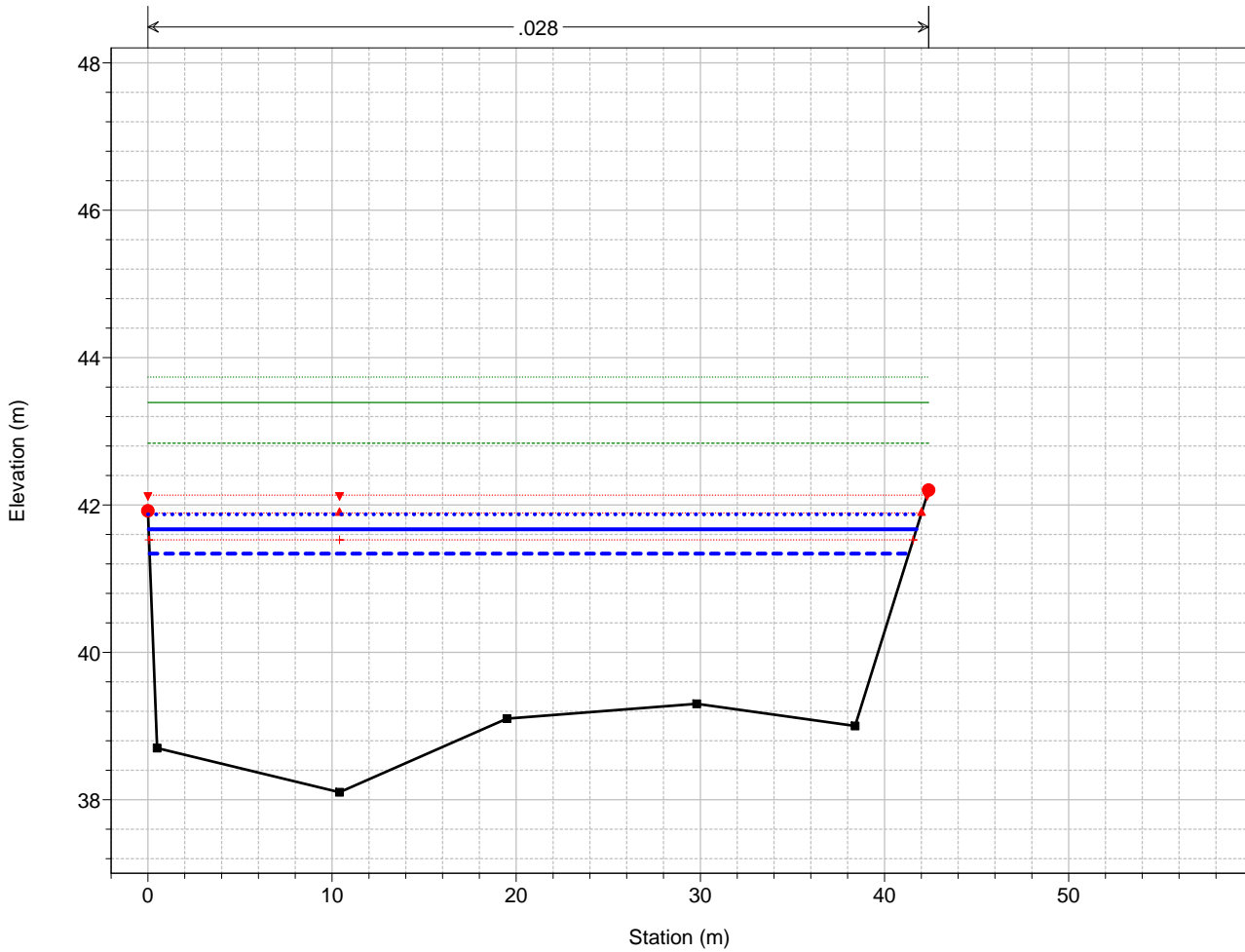
Legend	
EG T=500	(Dotted Green Line)
EG T=200	(Dotted Blue Line)
PL T=500	(Dotted Green Line)
PL T=200	(Dotted Blue Line)
EG T=50	(Dashed Blue Line)
PL T=50	(Dashed Blue Line)
Crit T=500	(Dotted Red Line with inverted triangle)
Crit T=200	(Dotted Red Line with triangle)
Crit T=50	(Dotted Red Line with plus)
Fondo	(Solid Black Line with square)
Sponda	(Red Circle)

T. Petronio - Ponte Villa Ricci



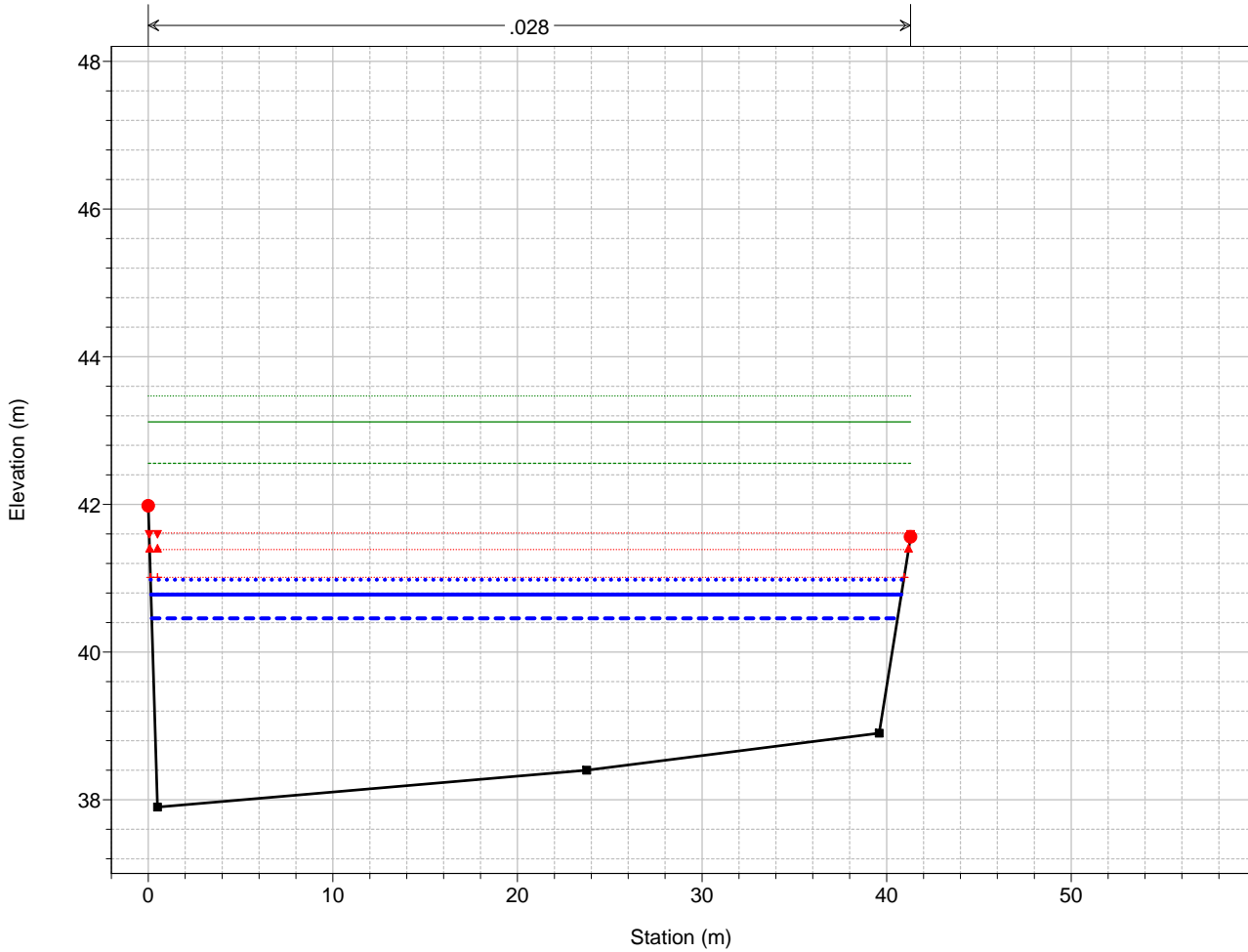
Legend	
EG T=500	(Dotted Green Line)
EG T=200	(Dotted Blue Line)
EG T=50	(Dotted Green Line)
PL T=500	(Dotted Blue Line)
Crit T=500	(Dotted Red Line with inverted triangle)
Crit T=200	(Dotted Red Line with triangle)
PL T=200	(Dotted Blue Line)
PL T=50	(Dashed Blue Line)
Crit T=50	(Dotted Red Line with plus)
Fondo	(Solid Black Line with square)
Sponda	(Red Circle)

T. Petronio - Ponte Villa Ricci
Sez. PE67



Legend	
EG T=500	(Green solid line)
EG T=200	(Green dashed line)
EG T=50	(Green dotted line)
Crit T=500	(Red solid line with inverted triangles)
Crit T=200	(Red dashed line with triangles)
Crit T=50	(Red dotted line with pluses)
PL T=500	(Blue solid line)
PL T=200	(Blue dashed line)
PL T=50	(Blue dotted line)
Fondo	(Black line with square markers)
Sponda	(Red circle)

T. Petronio - Ponte Villa Ricci
Sez. PE66m



Legend	
EG T=500	(Green solid line)
EG T=200	(Green dashed line)
EG T=50	(Green dotted line)
Crit T=500	(Red solid line with inverted triangles)
Crit T=200	(Red dashed line with triangles)
Crit T=50	(Red dotted line with pluses)
PL T=500	(Blue solid line)
PL T=200	(Blue dashed line)
PL T=50	(Blue dotted line)
Fondo	(Black line with square markers)
Sponda	(Red circle)

HEC-RAS Plan: Pp8 River: T.Petronio Reach: Pian Tangoni

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
Pian Tangoni	70.2	T=50	536.00	40.30	43.53	43.72	0.19	43.72	0.19	43.10	44.52	0.003925	4.40	121.76	39.85	0.80
Pian Tangoni	70.2	T=200	654.00	40.30	44.14	43.72	-0.42	43.72	-0.42	43.49	45.16	0.003315	4.48	145.94	40.00	0.75
Pian Tangoni	70.2	T=500	732.00	40.30	44.52	43.72	-0.80	43.72	-0.80	43.72	45.57	0.003043	4.54	161.29	40.00	0.72
Pian Tangoni	70.1	T=50	536.00	39.00	43.93	43.72	-0.21	43.72	-0.21	41.82	44.35	0.001020	2.86	187.48	40.00	0.42
Pian Tangoni	70.1	T=200	654.00	39.00	44.51	43.72	-0.79	43.72	-0.79	42.21	45.00	0.001065	3.11	210.60	40.00	0.43
Pian Tangoni	70.1	T=500	732.00	39.00	44.88	43.72	-1.16	43.72	-1.16	42.45	45.42	0.001086	3.25	225.40	40.00	0.44
Pian Tangoni	69	T=50	536.00	38.85	43.89	43.52	-0.37	43.36	-0.53	41.99	44.31	0.001105	2.87	186.75	42.40	0.44
Pian Tangoni	69	T=200	654.00	38.85	44.47	43.52	-0.95	43.36	-1.11	42.36	44.96	0.001120	3.09	211.49	42.40	0.44
Pian Tangoni	69	T=500	732.00	38.85	44.85	43.52	-1.33	43.36	-1.49	42.59	45.38	0.001126	3.22	227.30	42.40	0.44
Pian Tangoni	68.3	T=50	536.00	38.20	43.90	43.05	-0.85	42.85	-1.05	41.60	44.28	0.000936	2.73	196.19	39.70	0.39
Pian Tangoni	68.3	T=200	654.00	38.20	44.48	43.05	-1.43	42.85	-1.63	41.98	44.93	0.000994	2.98	219.17	39.70	0.41
Pian Tangoni	68.3	T=500	732.00	38.20	44.85	43.05	-1.80	42.85	-2.00	42.21	45.35	0.001023	3.13	233.84	39.70	0.41
Pian Tangoni	68.2	T=50	536.00	38.20	43.90	43.05	-0.85	42.85	-1.05	41.60	44.28	0.000939	2.73	196.04	39.70	0.39
Pian Tangoni	68.2	T=200	654.00	38.20	44.48	43.05	-1.43	42.85	-1.63	41.98	44.93	0.000996	2.99	219.01	39.70	0.41
Pian Tangoni	68.2	T=500	732.00	38.20	44.85	43.05	-1.80	42.85	-2.00	42.21	45.35	0.001025	3.13	233.67	39.70	0.41
Pian Tangoni	68.11		Bridge													
Pian Tangoni	68.1	T=50	536.00	38.20	41.61	43.05	1.44	42.85	1.24	41.61	42.93	0.006602	5.10	105.04	39.70	1.00
Pian Tangoni	68.1	T=200	654.00	38.20	41.98	43.05	1.07	42.85	0.87	41.98	43.50	0.006461	5.45	119.92	39.70	1.00
Pian Tangoni	68.1	T=500	732.00	38.20	42.21	43.05	0.84	42.85	0.64	42.21	43.85	0.006403	5.67	129.18	39.70	1.00
Pian Tangoni	67	T=50	536.00	38.10	41.52	41.92	0.40	42.20	0.68	41.52	42.81	0.006326	5.05	106.22	41.48	1.01
Pian Tangoni	67	T=200	654.00	38.10	41.89	41.92	0.03	42.20	0.31	41.89	43.36	0.006131	5.37	121.87	42.01	1.01
Pian Tangoni	67	T=500	732.00	38.10	42.13	41.92	-0.21	42.20	0.07	42.13	43.70	0.005986	5.54	132.05	42.32	1.00
Pian Tangoni	66	T=50	536.00	37.90	41.01	41.98	0.97	41.56	0.55	41.01	42.31	0.006341	5.05	106.05	40.83	1.00
Pian Tangoni	66	T=200	654.00	37.90	41.39	41.98	0.59	41.56	0.17	41.39	42.87	0.006179	5.39	121.30	41.12	1.00
Pian Tangoni	66	T=500	732.00	37.90	41.62	41.98	0.36	41.56	-0.06	41.62	43.21	0.006094	5.59	130.89	41.26	1.00

Plan: Pp8 T.Petronio Pian Tangoni RS: 68.11 Profile: T=50

E.G. US. (m)	44.28	Element	Inside BR US	Inside BR DS
W.S. US. (m)	43.90	E.G. Elev (m)	44.28	44.15
Q Total (m3/s)	536.00	W.S. Elev (m)	43.90	43.79
Q Bridge (m3/s)	459.63	Crit W.S. (m)	41.89	41.89
Q Weir (m3/s)	76.37	Max Chl Dpth (m)	5.66	5.55
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	39.70	Flow Area (m2)		
Weir Submerg	0.00	Froude # Chl	0.50	0.52
Weir Max Depth (m)	1.43	Specif Force (m3)	587.15	577.67
Min El Weir Flow (m)	42.85	Hydr Depth (m)		
Min El Prs (m)	42.40	W.P. Total (m)	136.20	135.98
Delta EG (m)	1.35	Conv. Total (m3/s)		
Delta WS (m)	2.29	Top Width (m)	39.70	39.70
BR Open Area (m2)	111.86	Frctn Loss (m)		
BR Open Vel (m/s)	4.11	C & E Loss (m)		
Coef of Q		Shear Total (N/m2)		
Br Sel Method	Press/Weir	Power Total (N/m s)	0.00	0.00

Plan: Pp8 T.Petronio Pian Tangoni RS: 68.11 Profile: T=200

E.G. US. (m)	44.93	Element	Inside BR US	Inside BR DS
W.S. US. (m)	44.48	E.G. Elev (m)	44.93	44.73
Q Total (m3/s)	654.00	W.S. Elev (m)	44.48	44.18
Q Bridge (m3/s)	508.58	Crit W.S. (m)	42.17	42.17
Q Weir (m3/s)	145.42	Max Chl Dpth (m)	6.24	5.94
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	39.70	Flow Area (m2)		
Weir Submerg	0.00	Froude # Chl	0.50	0.55
Weir Max Depth (m)	2.08	Specif Force (m3)	735.15	706.69
Min El Weir Flow (m)	42.85	Hydr Depth (m)		
Min El Prs (m)	42.40	W.P. Total (m)	137.35	136.76
Delta EG (m)	1.43	Conv. Total (m3/s)		
Delta WS (m)	2.50	Top Width (m)	39.70	39.70
BR Open Area (m2)	111.86	Frctn Loss (m)		
BR Open Vel (m/s)	4.55	C & E Loss (m)		
Coef of Q		Shear Total (N/m2)		
Br Sel Method	Press/Weir	Power Total (N/m s)	0.00	0.00

Plan: Pp8 T.Petronio Pian Tangoni RS: 68.11 Profile: T=500

E.G. US. (m)	45.35	Element	Inside BR US	Inside BR DS
W.S. US. (m)	44.85	E.G. Elev (m)	45.35	45.10
Q Total (m3/s)	732.00	W.S. Elev (m)	44.85	44.43
Q Bridge (m3/s)	535.90	Crit W.S. (m)	42.20	42.20
Q Weir (m3/s)	196.10	Max Chl Dpth (m)	6.61	6.19
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	39.70	Flow Area (m2)		
Weir Submerg	0.00	Froude # Chl	0.50	0.57
Weir Max Depth (m)	2.50	Specif Force (m3)	839.31	796.45
Min El Weir Flow (m)	42.85	Hydr Depth (m)		
Min El Prs (m)	42.40	W.P. Total (m)	138.09	137.26
Delta EG (m)	1.50	Conv. Total (m3/s)		
Delta WS (m)	2.63	Top Width (m)	39.70	39.70
BR Open Area (m2)	111.86	Frctn Loss (m)		
BR Open Vel (m/s)	4.79	C & E Loss (m)		
Coef of Q		Shear Total (N/m2)		
Br Sel Method	Press/Weir	Power Total (N/m s)	0.00	0.00