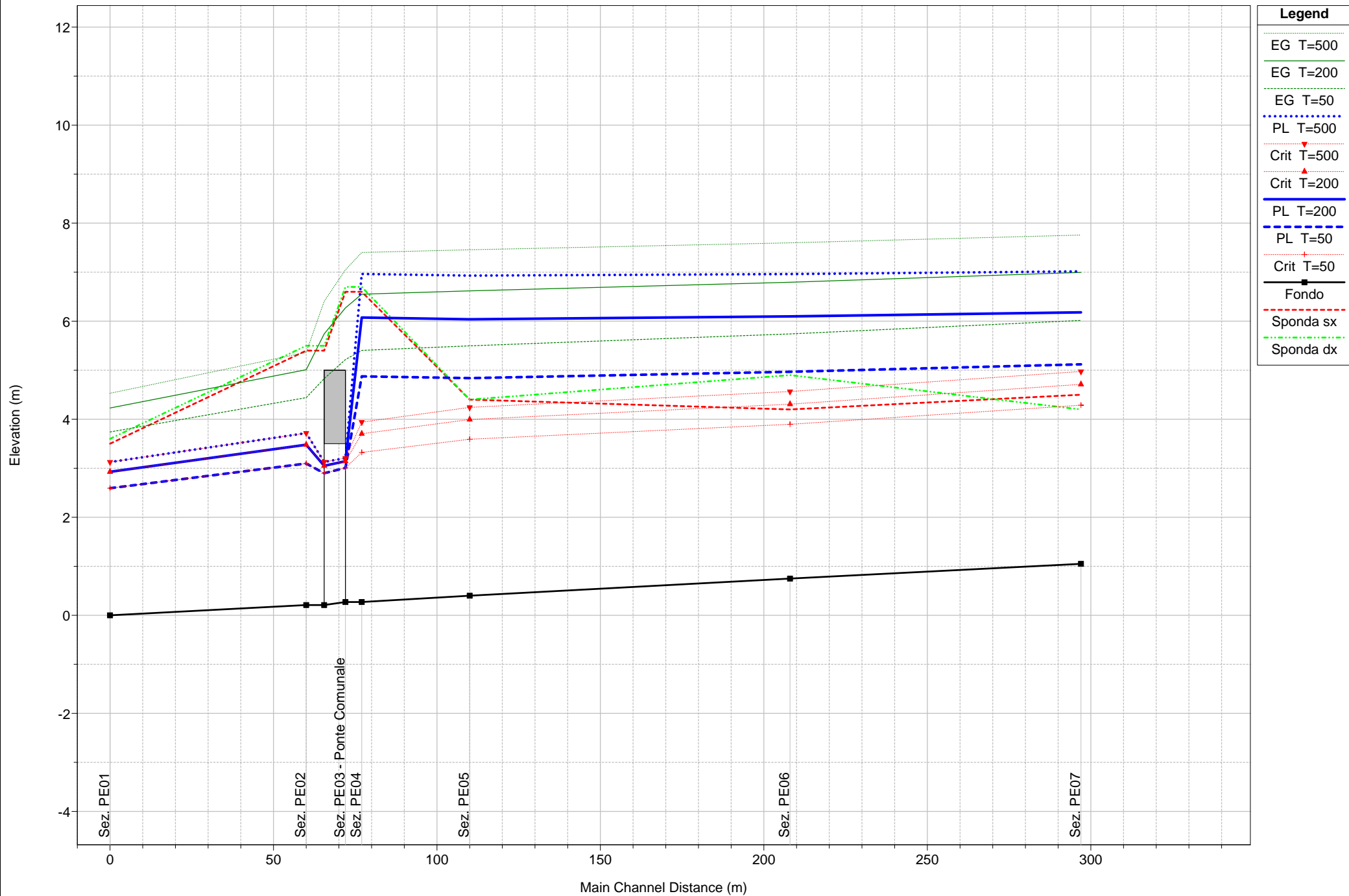


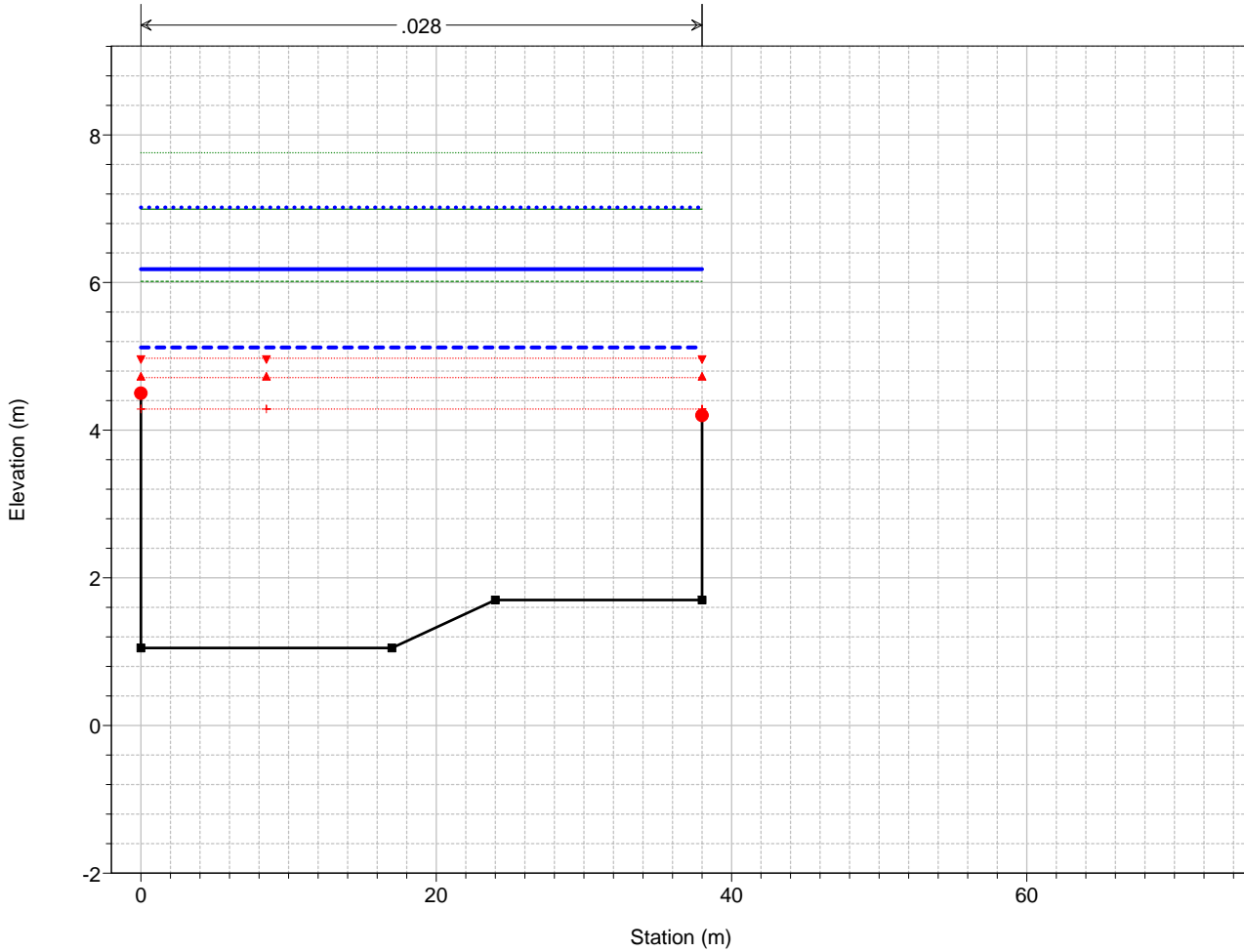
T. Petronio - Loc. Riva Trigoso



1 cm Horiz. = 15 m 1 cm Vert. = 1 m

T. Petronio - Loc. Riva Trigoso

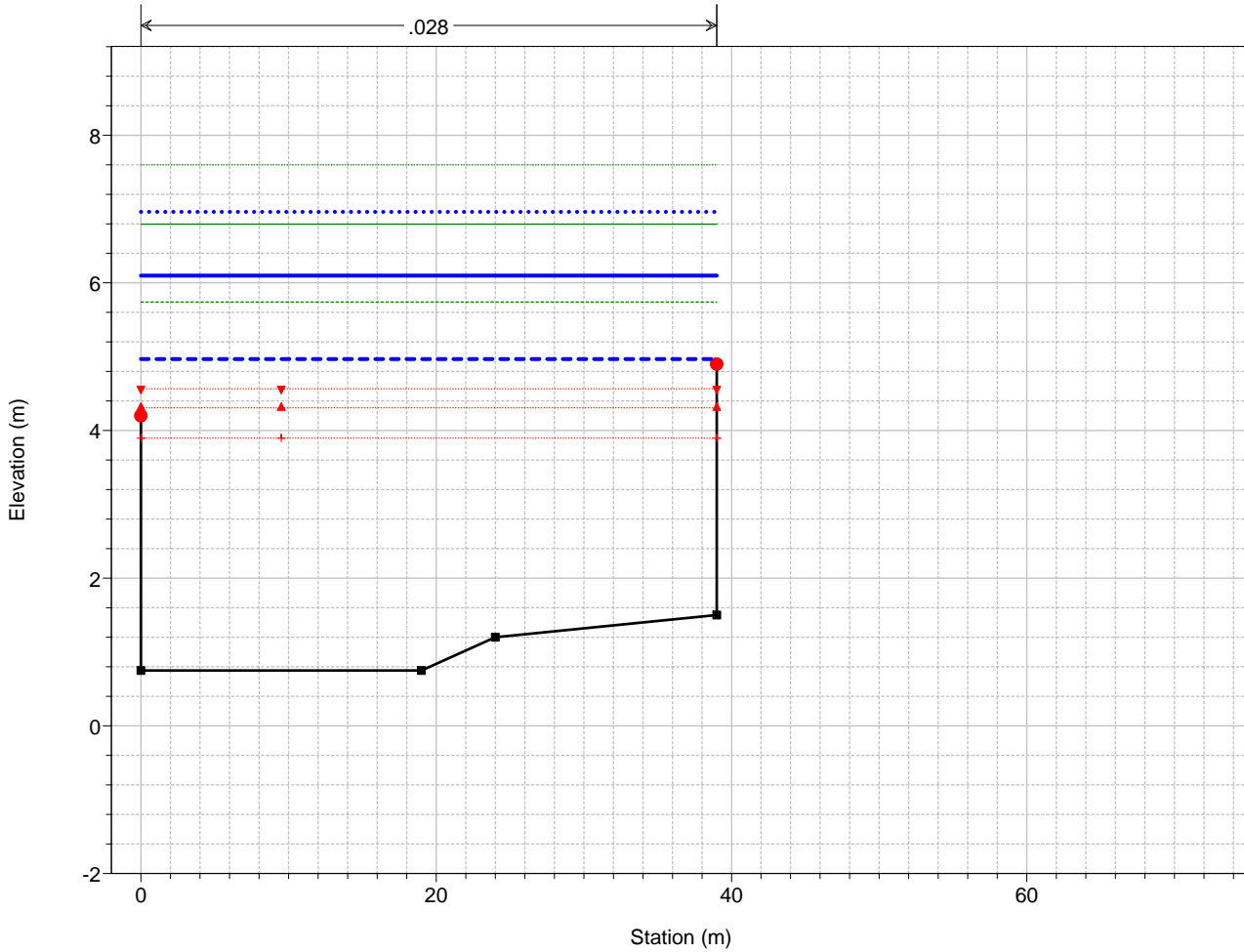
Sez. PE07



Legend	
EG T=500	.....
PL T=500	.....
EG T=200	.....
PL T=200	.....
EG T=50	.....
PL T=50	.....
Crit T=500	▼
Crit T=200	▲
Crit T=50	+
Fondo	■
Sponda	●

T. Petronio - Loc. Riva Trigoso

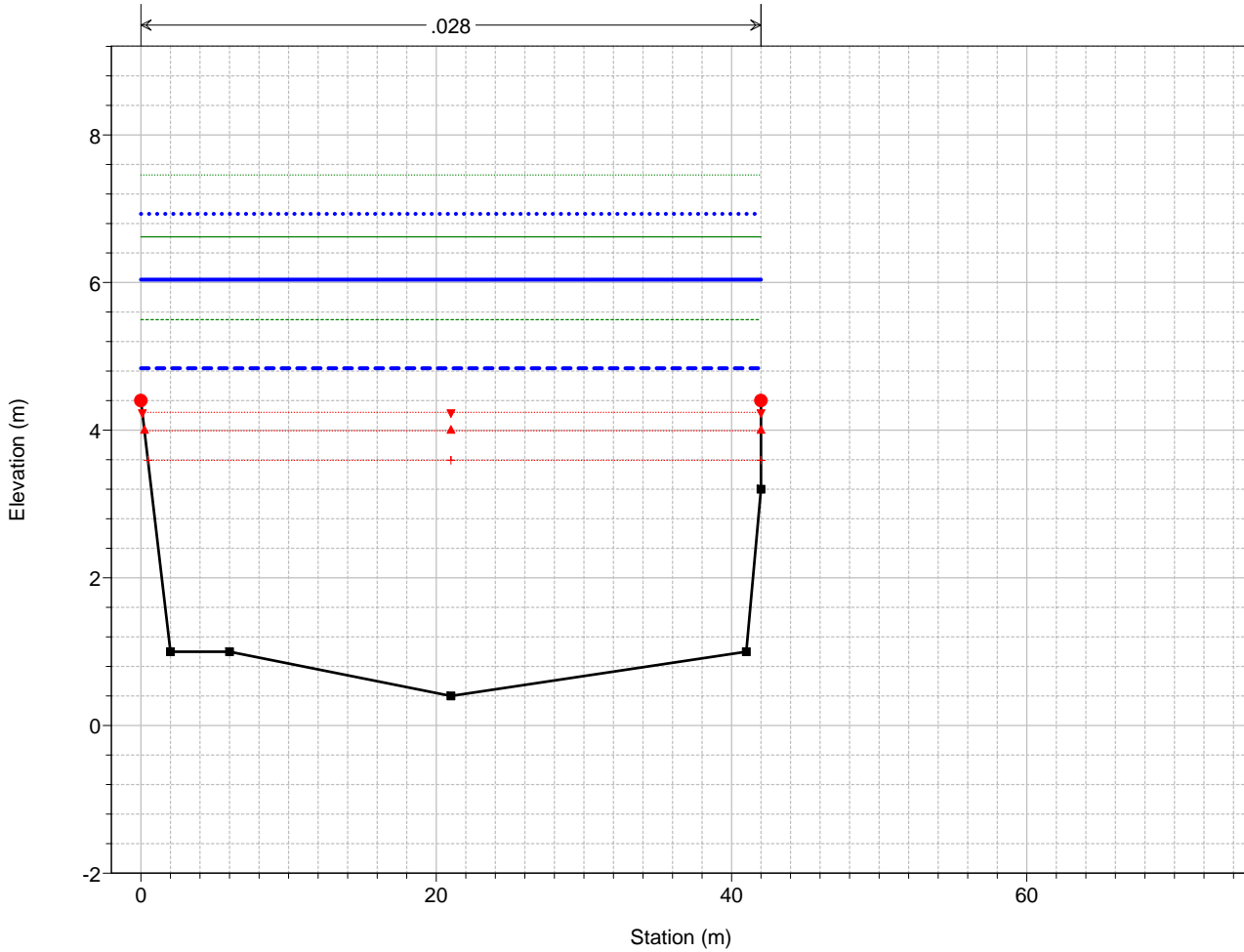
Sez. PE06



Legend	
EG T=500	.....
PL T=500	.....
EG T=200	.....
PL T=200	.....
EG T=50	.....
PL T=50	.....
Crit T=500	▼
Crit T=200	▲
Crit T=50	+
Fondo	■
Sponda	●

### T. Petronio - Loc. Riva Trigoso

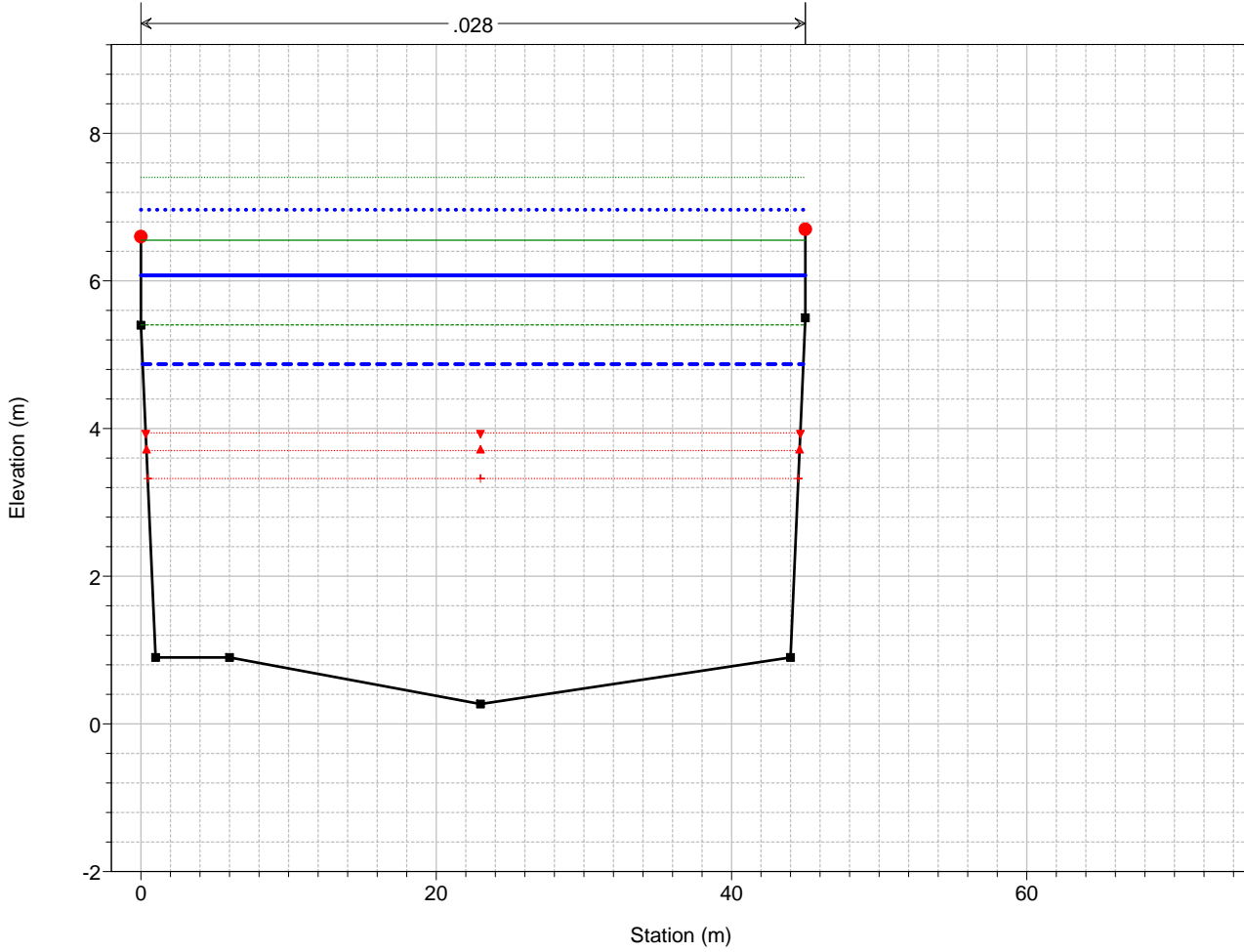
Sez. PE05



Legend	
EG T=500	.....
PL T=500	.....
EG T=200	.....
PL T=200	.....
EG T=50	.....
PL T=50	.....
Crit T=500	▼
Crit T=200	▲
Crit T=50	+
Fondo	■
Sponda	●

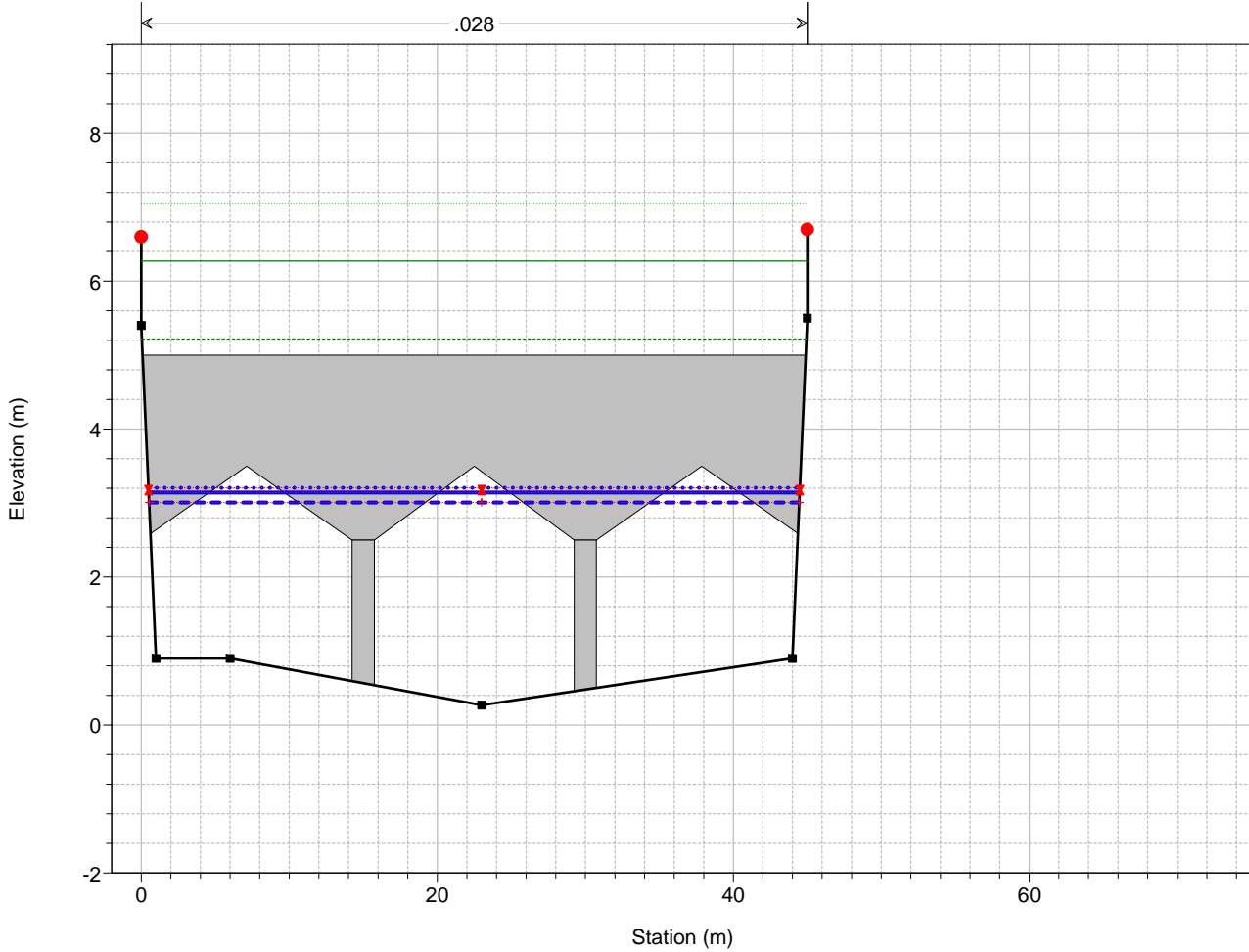
### T. Petronio - Loc. Riva Trigoso

Sez. PE04



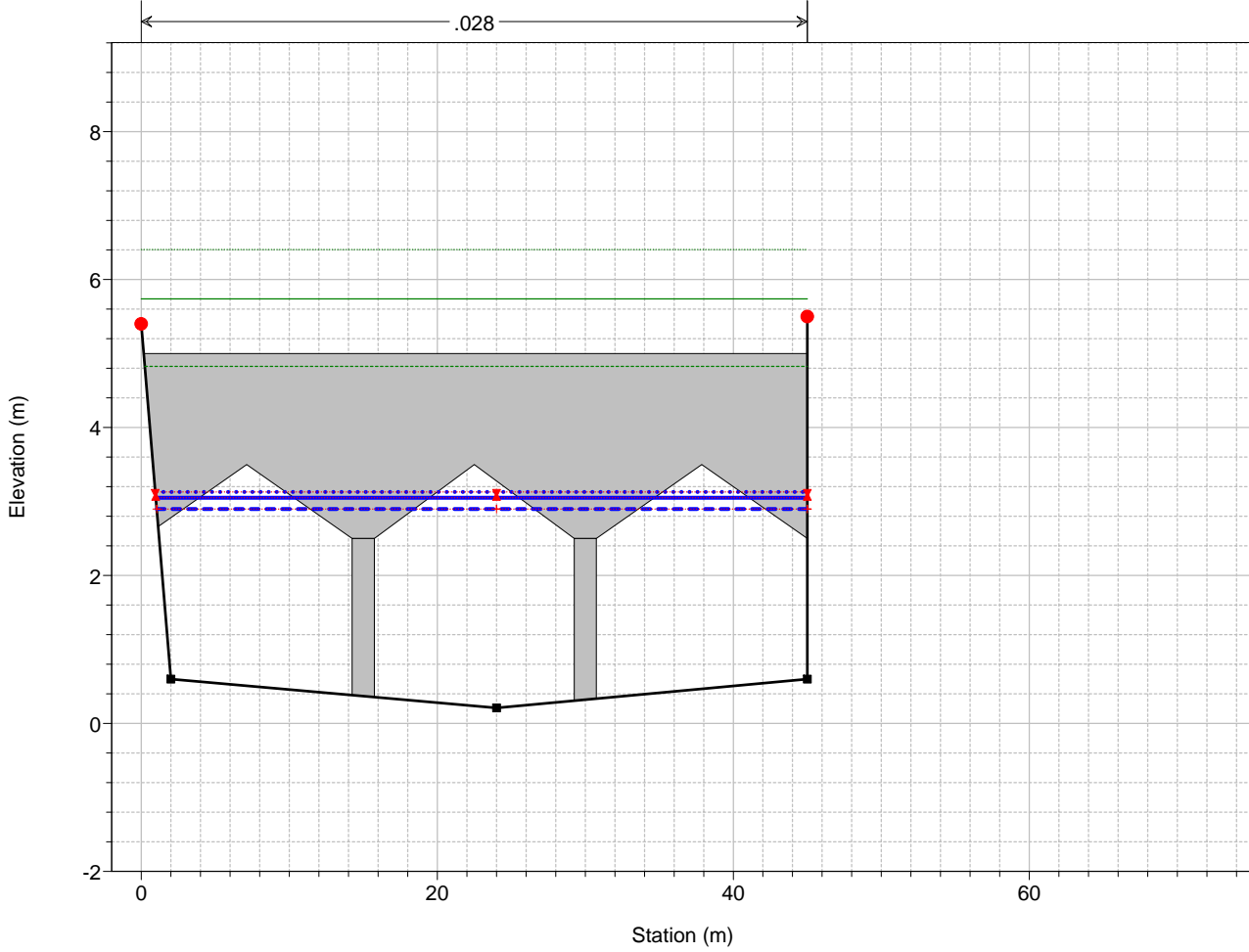
Legend	
EG T=500	.....
PL T=500	.....
EG T=200	.....
PL T=200	.....
EG T=50	.....
PL T=50	.....
Crit T=500	▼
Crit T=200	▲
Crit T=50	+
Fondo	■
Sponda	●

T. Petronio - Loc. Riva Trigoso  
Sez. PE03 - Ponte Comunale



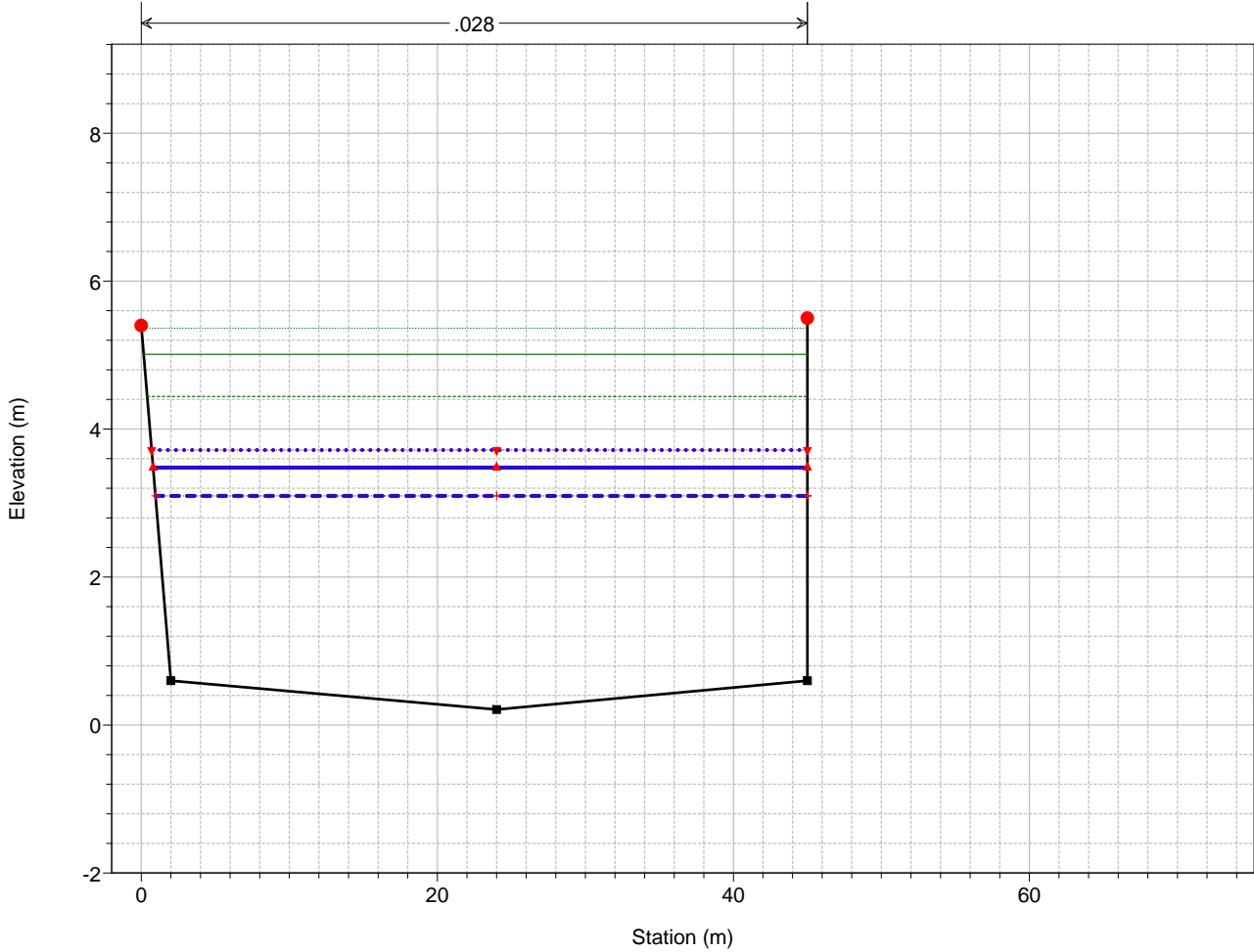
Legend	
EG T=500	Green solid line
EG T=200	Green dashed line
EG T=50	Green dotted line
PL T=500	Blue solid line
Crit T=500	Red downward triangle
Crit T=200	Red upward triangle
PL T=200	Blue dashed line
PL T=50	Blue dotted line
Crit T=50	Red plus sign
Fondo	Black square
Sponda	Red circle

T. Petronio - Loc. Riva Trigoso  
Sez. PE03 - Ponte Comunale



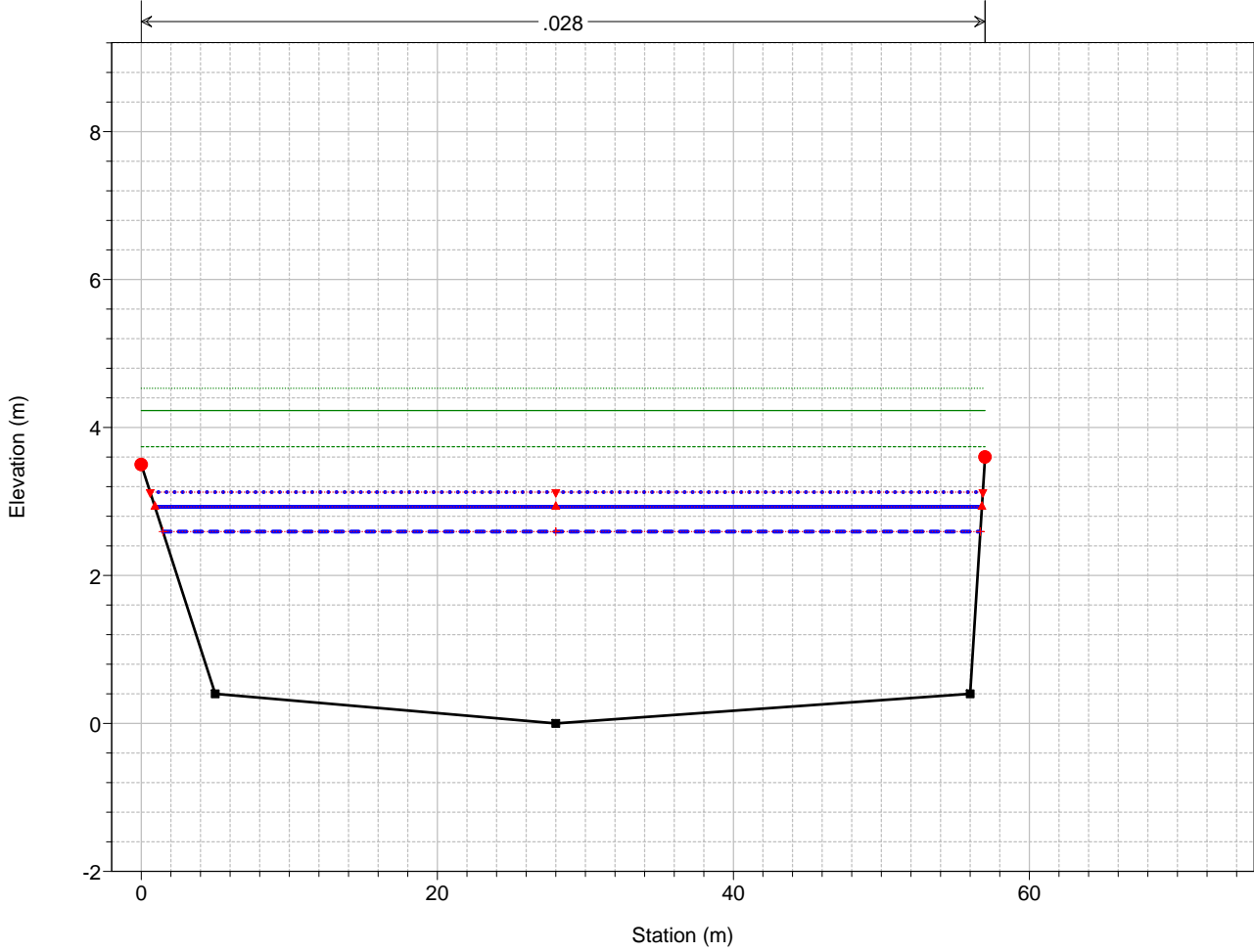
Legend	
EG T=500	Green solid line
EG T=200	Green dashed line
EG T=50	Green dotted line
PL T=500	Blue solid line
Crit T=500	Red downward triangle
Crit T=200	Red upward triangle
PL T=200	Blue dashed line
PL T=50	Blue dotted line
Crit T=50	Red plus sign
Fondo	Black square
Sponda	Red circle

T. Petronio - Loc. Riva Trigoso  
Sez. PE02



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 Triangle)
Crit T=200	(Red Triangle)
PL T=200	(Solid Blue Line)
PL T=50	(Dashed Blue Line)
Crit T=50	(Red Triangle)
Fondo	(Black Square)
Sponda	(Red Circle)

T. Petronio - Loc. Riva Trigoso  
Sez. PE01



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 Triangle)
Crit T=200	(Red Triangle)
PL T=200	(Solid Blue Line)
PL T=50	(Dashed Blue Line)
Crit T=50	(Red Triangle)
Fondo	(Black Square)
Sponda	(Red Circle)

HEC-RAS Plan: Pp1 River: T. Petronio Reach: Tratto 1

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 1	7	T=50	601.00	1.05	5.12	4.50	-0.62	4.20	-0.92	4.29	6.02	0.002991	4.20	143.26	38.00	0.69
Tratto 1	7	T=200	734.00	1.05	6.18	4.50	-1.68	4.20	-1.98	4.71	6.99	0.002075	4.00	183.58	38.00	0.58
Tratto 1	7	T=500	821.00	1.05	7.02	4.50	-2.52	4.20	-2.82	4.97	7.76	0.001596	3.81	215.39	38.00	0.51
Tratto 1	6	T=50	601.00	0.75	4.97	4.20	-0.77	4.90	-0.07	3.90	5.74	0.002414	3.89	154.36	39.00	0.62
Tratto 1	6	T=200	734.00	0.75	6.10	4.20	-1.90	4.90	-1.20	4.31	6.79	0.001661	3.70	198.43	39.00	0.52
Tratto 1	6	T=500	821.00	0.75	6.96	4.20	-2.76	4.90	-2.06	4.57	7.60	0.001290	3.54	232.14	39.00	0.46
Tratto 1	5	T=50	601.00	0.40	4.84	4.40	-0.44	4.40	-0.44	3.59	5.50	0.001888	3.59	167.24	42.00	0.57
Tratto 1	5	T=200	734.00	0.40	6.04	4.40	-1.64	4.40	-1.64	3.99	6.62	0.001250	3.37	217.64	42.00	0.47
Tratto 1	5	T=500	821.00	0.40	6.93	4.40	-2.53	4.40	-2.53	4.24	7.46	0.000966	3.22	255.04	42.00	0.42
Tratto 1	4	T=50	601.00	0.27	4.87	6.60	1.73	6.70	1.83	3.32	5.40	0.001456	3.23	186.31	44.75	0.50
Tratto 1	4	T=200	734.00	0.27	6.08	6.60	0.52	6.70	0.62	3.70	6.55	0.000989	3.05	240.31	45.00	0.42
Tratto 1	4	T=500	821.00	0.27	6.96	6.60	-0.36	6.70	-0.26	3.94	7.40	0.000773	2.93	280.33	45.00	0.37
Tratto 1	3		Bridge													
Tratto 1	2	T=50	601.00	0.21	3.10	5.40	2.30	5.50	2.40	3.10	4.44	0.006330	5.13	117.07	44.04	1.01
Tratto 1	2	T=200	734.00	0.21	3.48	5.40	1.92	5.50	2.02	3.48	5.01	0.006163	5.48	133.93	44.20	1.00
Tratto 1	2	T=500	821.00	0.21	3.72	5.40	1.68	5.50	1.78	3.72	5.36	0.006078	5.68	144.42	44.30	1.01
Tratto 1	1	T=50	601.00	0.00	2.59	3.50	0.91	3.60	1.01	2.59	3.74	0.006157	4.75	126.64	55.22	1.00
Tratto 1	1	T=200	734.00	0.00	2.93	3.50	0.57	3.60	0.67	2.93	4.23	0.005947	5.05	145.26	55.87	1.00
Tratto 1	1	T=500	821.00	0.00	3.13	3.50	0.37	3.60	0.47	3.13	4.53	0.005895	5.25	156.38	56.25	1.01

Plan: Pp1 T. Petronio Tratto 1 RS: 3 Profile: T=50

		Element	Inside BR US	Inside BR DS
E.G. US. (m)	5.40			
W.S. US. (m)	4.87	E.G. Elev (m)	5.22	4.83
Q Total (m3/s)	601.00	W.S. Elev (m)	3.01	2.90
Q Bridge (m3/s)	601.00	Crit W.S. (m)	3.01	2.90
Q Weir (m3/s)		Max Chl Dpth (m)	2.74	2.69
Weir Sta Lft (m)		Vel Total (m/s)	6.58	6.16
Weir Sta Rgt (m)		Flow Area (m2)	91.27	97.64
Weir Submerg		Froude # Chl	1.27	1.20
Weir Max Depth (m)		Specif Force (m3)	517.19	501.41
Min El Weir Flow (m)	5.00	Hydr Depth (m)	4.42	3.85
Min El Prs (m)	3.50	W.P. Total (m)	69.73	66.30
Delta EG (m)	0.96	Conv. Total (m3/s)	3900.5	4513.5
Delta WS (m)	1.78	Top Width (m)	20.64	25.33
BR Open Area (m2)	96.34	Frctn Loss (m)	0.13	0.05
BR Open Vel (m/s)	6.58	C & E Loss (m)	0.08	0.18
Coef of Q		Shear Total (N/m2)	304.75	256.05
Br Sel Method	Energy only	Power Total (N/m s)	0.00	0.00

Plan: Pp1 T. Petronio Tratto 1 RS: 3 Profile: T=200

		Element	Inside BR US	Inside BR DS
E.G. US. (m)	6.55			
W.S. US. (m)	6.08	E.G. Elev (m)	6.27	5.74
Q Total (m3/s)	734.00	W.S. Elev (m)	3.14	3.05
Q Bridge (m3/s)	734.00	Crit W.S. (m)	3.14	3.05
Q Weir (m3/s)		Max Chl Dpth (m)	2.87	2.84
Weir Sta Lft (m)		Vel Total (m/s)	7.84	7.26
Weir Sta Rgt (m)		Flow Area (m2)	93.68	101.04
Weir Submerg		Froude # Chl	1.48	1.38
Weir Max Depth (m)		Specif Force (m3)	712.46	683.07
Min El Weir Flow (m)	5.00	Hydr Depth (m)	6.26	5.36
Min El Prs (m)	3.50	W.P. Total (m)	75.46	72.83
Delta EG (m)	1.54	Conv. Total (m3/s)	3864.3	4488.5
Delta WS (m)	2.60	Top Width (m)	14.96	18.87
BR Open Area (m2)	96.34	Frctn Loss (m)	0.20	0.06
BR Open Vel (m/s)	7.84	C & E Loss (m)	0.13	0.35
Coef of Q		Shear Total (N/m2)	439.19	363.81
Br Sel Method	Energy only	Power Total (N/m s)	0.00	0.00

Plan: Pp1 T. Petronio Tratto 1 RS: 3 Profile: T=500

		Element	Inside BR US	Inside BR DS
E.G. US. (m)	7.40			
W.S. US. (m)	6.96	E.G. Elev (m)	7.05	6.40
Q Total (m3/s)	821.00	W.S. Elev (m)	3.21	3.13
Q Bridge (m3/s)	821.00	Crit W.S. (m)	3.21	3.13
Q Weir (m3/s)		Max Chl Dpth (m)	2.94	2.92
Weir Sta Lft (m)		Vel Total (m/s)	8.69	8.02
Weir Sta Rgt (m)		Flow Area (m2)	94.53	102.36
Weir Submerg		Froude # Chl	1.62	1.50
Weir Max Depth (m)		Specif Force (m3)	858.87	818.51
Min El Weir Flow (m)	5.00	Hydr Depth (m)	7.66	6.55
Min El Prs (m)	3.50	W.P. Total (m)	78.11	76.09
Delta EG (m)	2.04	Conv. Total (m3/s)	3834.0	4455.1
Delta WS (m)	3.25	Top Width (m)	12.35	15.64
BR Open Area (m2)	96.34	Frctn Loss (m)	0.26	0.07
BR Open Vel (m/s)	8.69	C & E Loss (m)	0.17	0.49
Coef of Q		Shear Total (N/m2)	544.21	448.02
Br Sel Method	Energy only	Power Total (N/m s)	0.00	0.00