

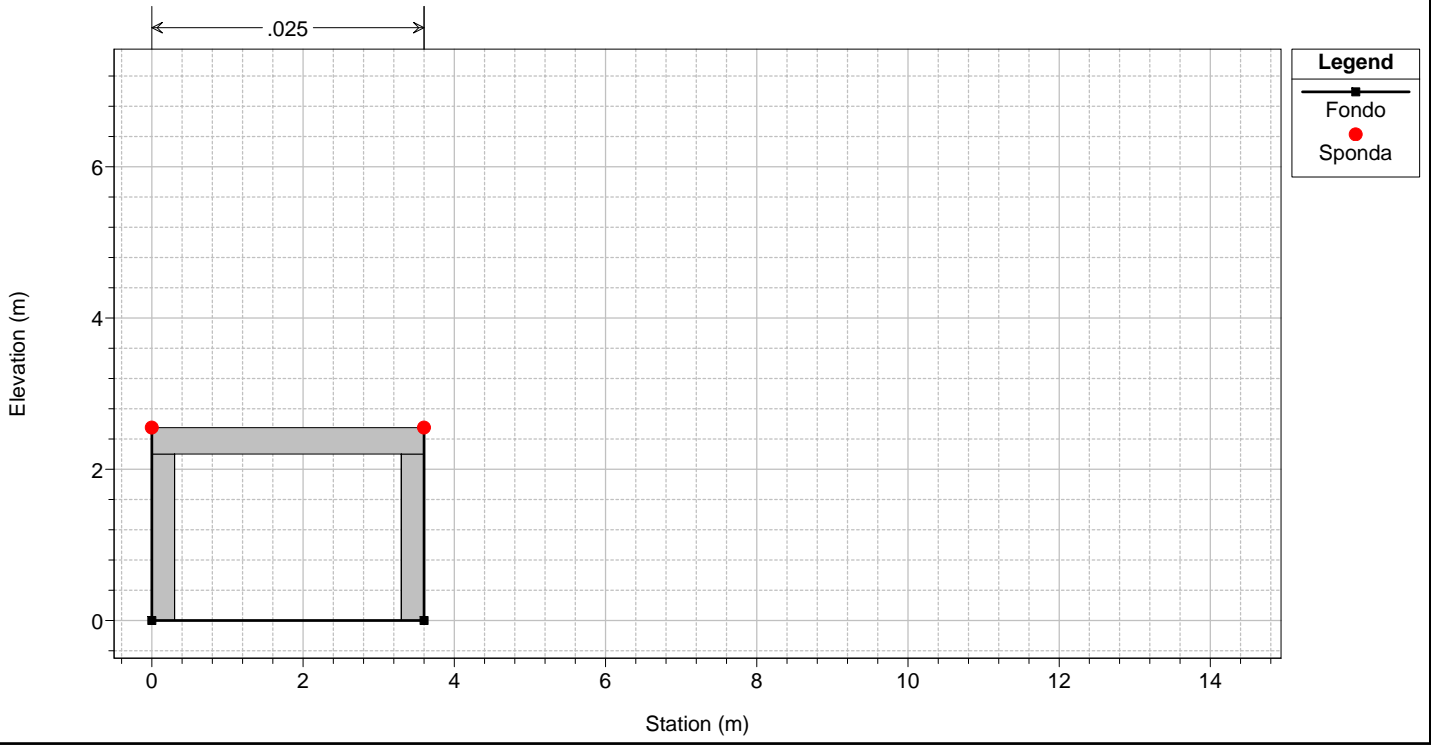
SCHEDA VERIFICA IDRAULICA DI TIPO PUNTUALE

Bacino:	T. Petronio
Sottobacino:	Rio Nuovo
Corso d'acqua:	Rio Nuovo
Località:	Valle Scura
Codice opera:	NU01
Descrizione:	Tombinatura
Sezione di riferimento:	

Calcolo delle condizioni critiche

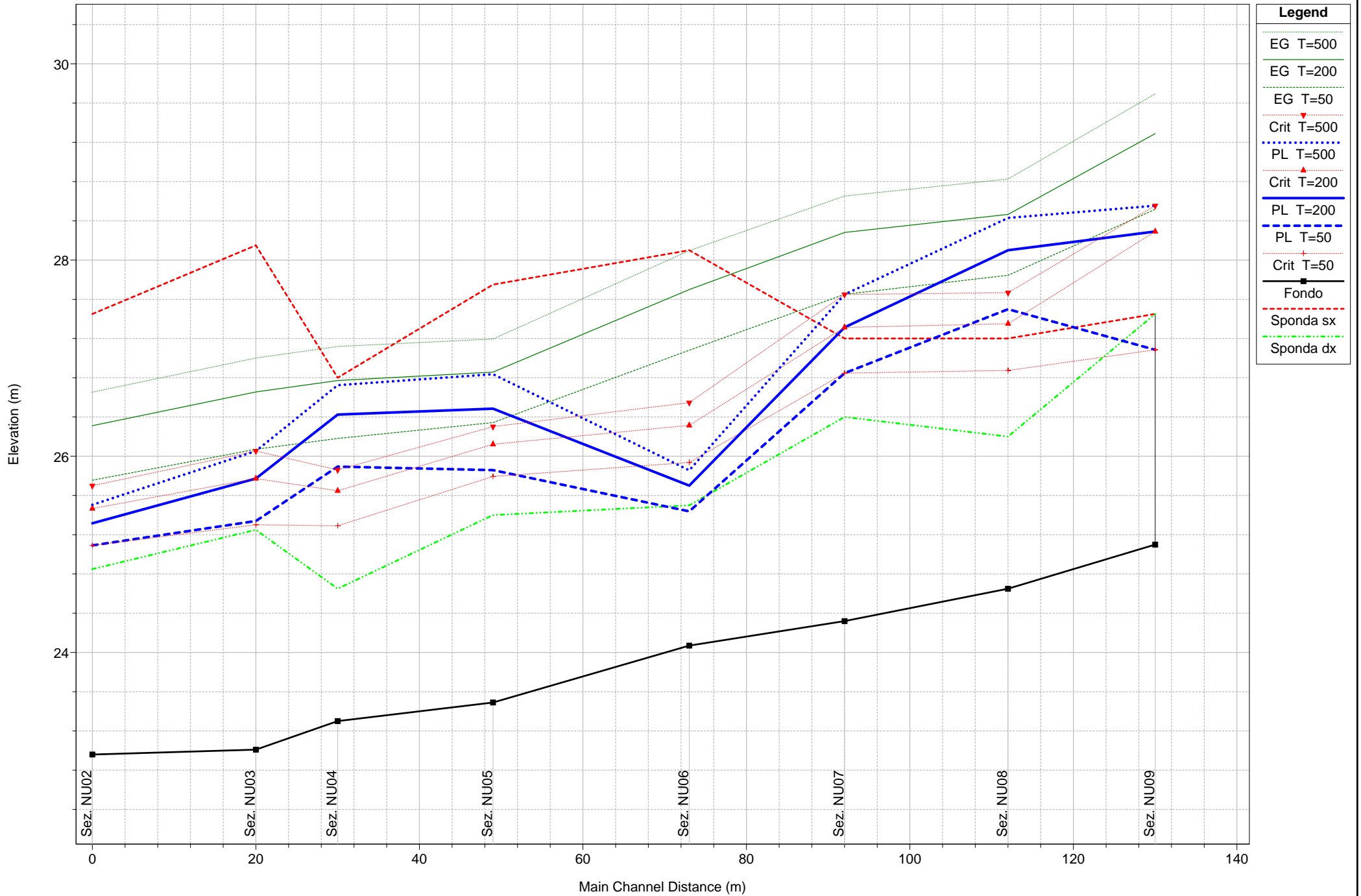
Periodo di ritorno [anni]	T =	50	200	500
Larghezza di calcolo [m]	B=	3,00	3,00	3,00
Numero pile	np=	0	0	0
Spessore pile [m]	sp=	0,00	0,00	0,00
Larghezza netta [m]	Bo=	3,00	3,00	3,00
Portata [mc/s]	Q=	30	43	52
Rapporto di restringimento	r =	1,00	1,00	1,00
Numero di Froude limite	FL=	1,00	1,00	1,00
Coefficiente di forma delle pile	K=	1,000	1,000	1,000
Altezza pelo libero [m]	Y=	2,17	2,76	3,13
Area [mq]	A=	6,50	8,27	9,39
Perimetro bagnato [m]	P=	7,34	8,51	9,26
Raggio idraulico [m]	R=	0,89	0,97	1,01
Velocità media [m/s]	V=	4,61	5,20	5,54
Carico specifico [m]	E=	3,25	4,13	4,69
Numero di Froude	Fr=	1,00	1,00	1,00
Luce libera media [m]	H=	2,20	2,20	2,20
Franco [m]	f=	0,03	-0,56	-0,93
Verificata		NO	NO	NO

Rio Nuovo
Sez. NU01



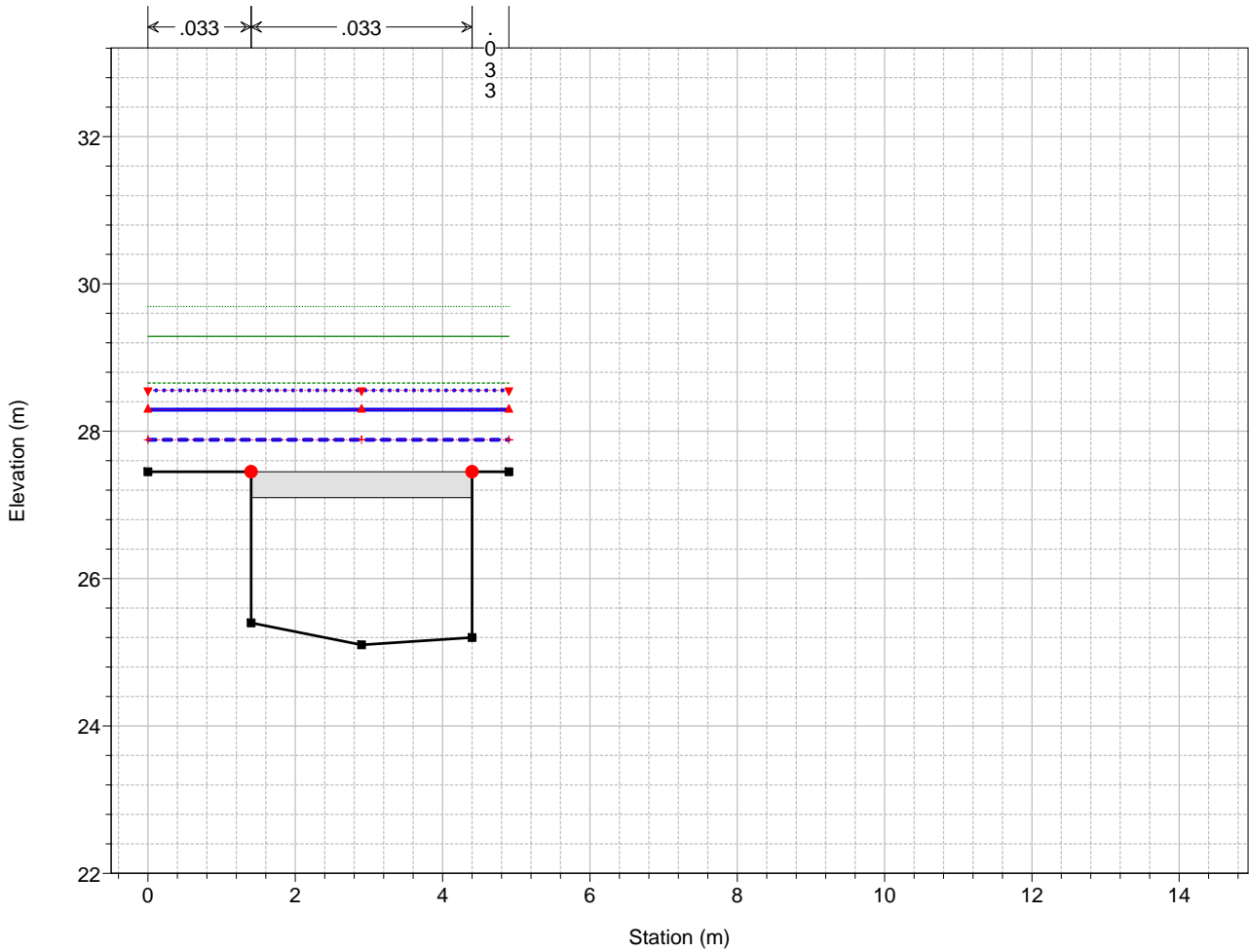
1 cm Horiz. = 1 m 1 cm Vert. = 1 m

Rio Nuovo

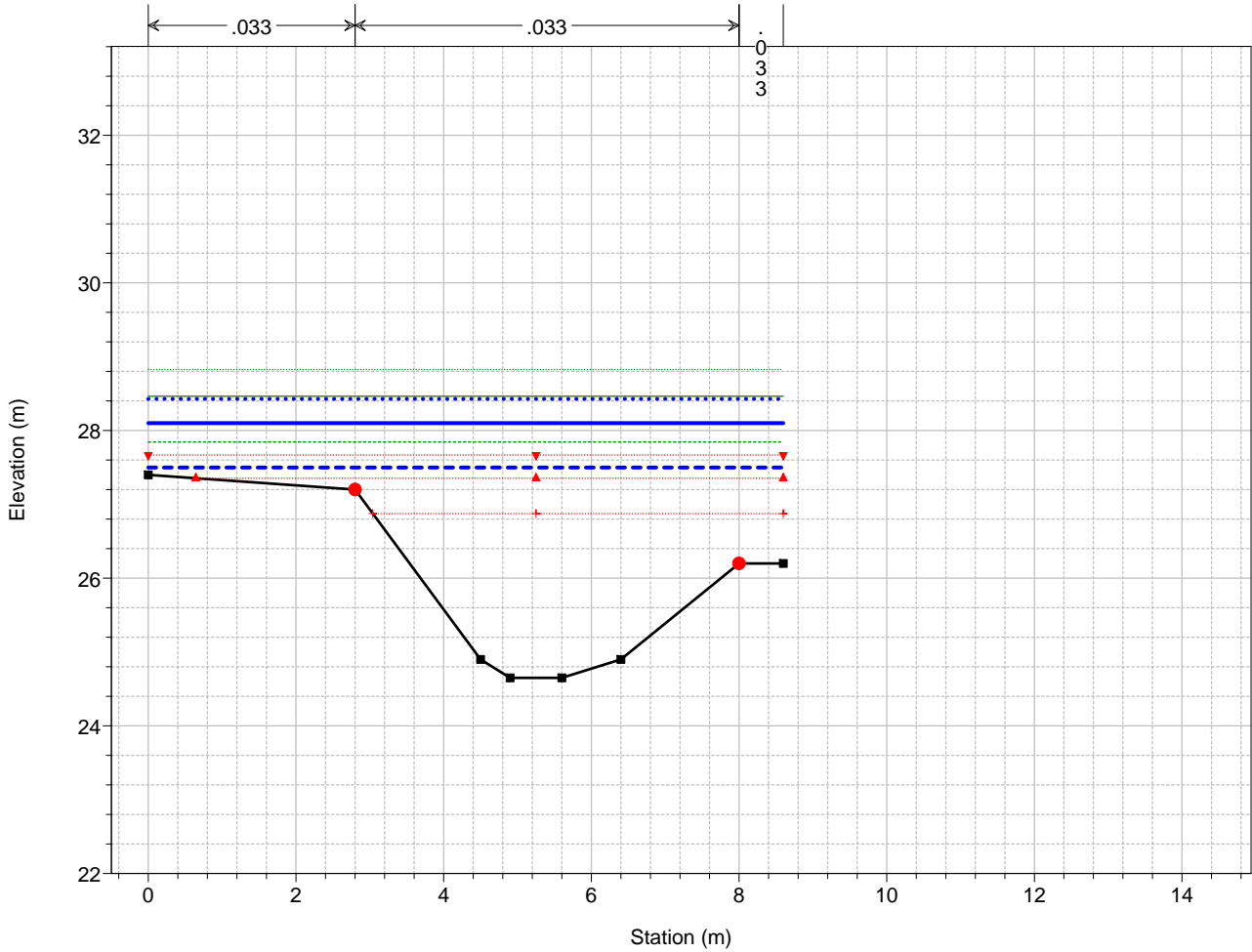


1 cm Horiz. = 6 m 1 cm Vert. = 0.5 m

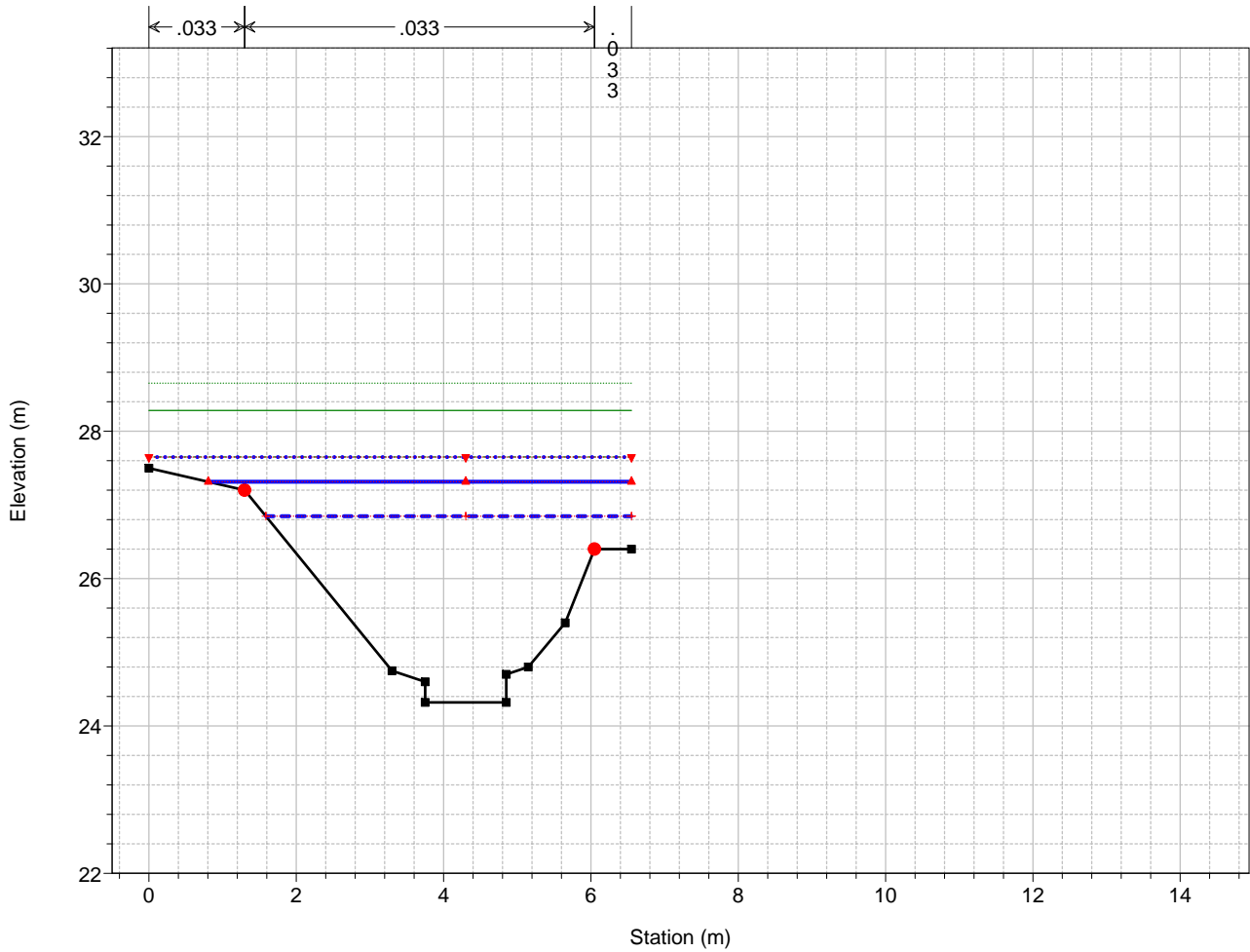
Rio Nuovo
Sez. NU09



Rio Nuovo
Sez. NU08

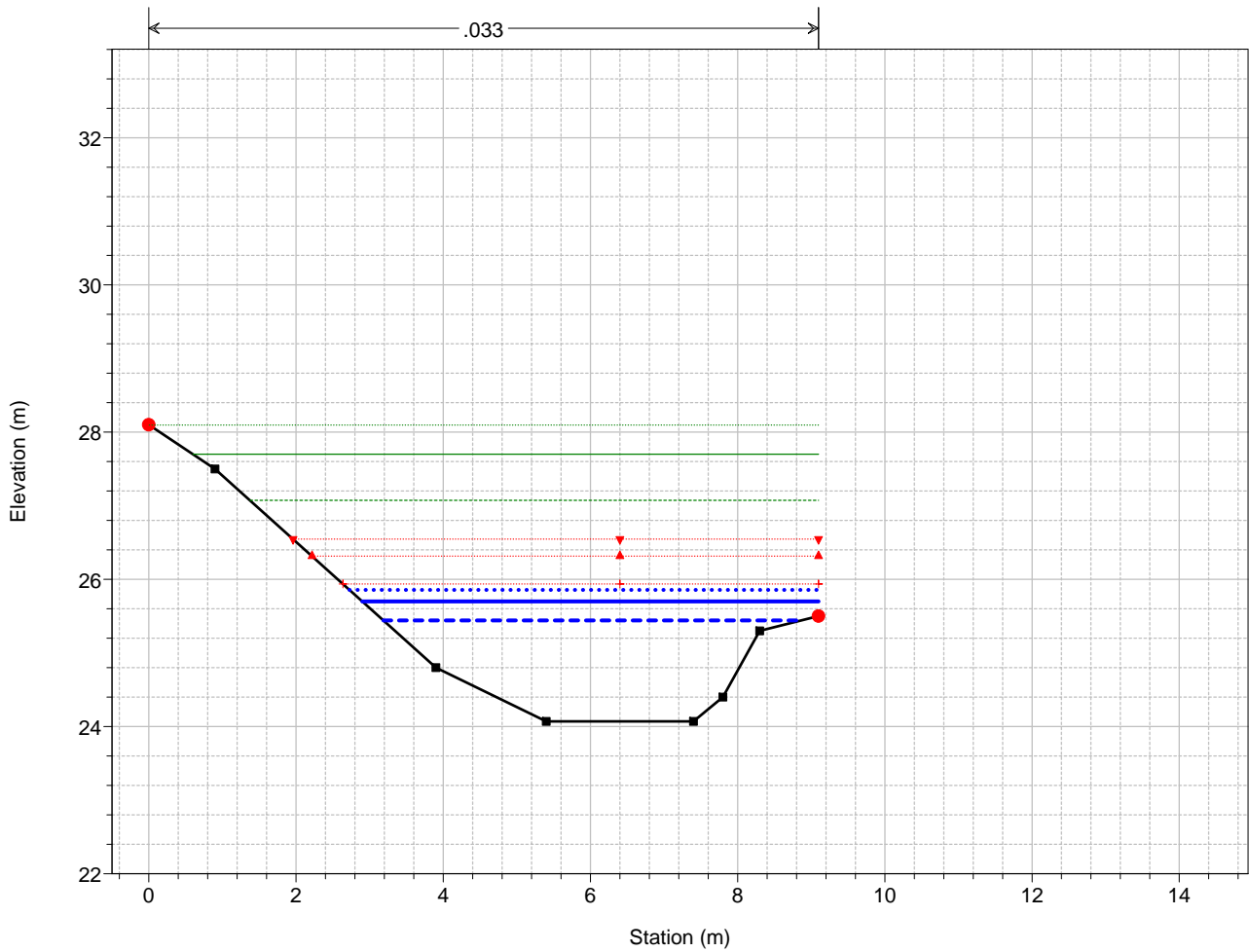


Rio Nuovo
Sez. NU07



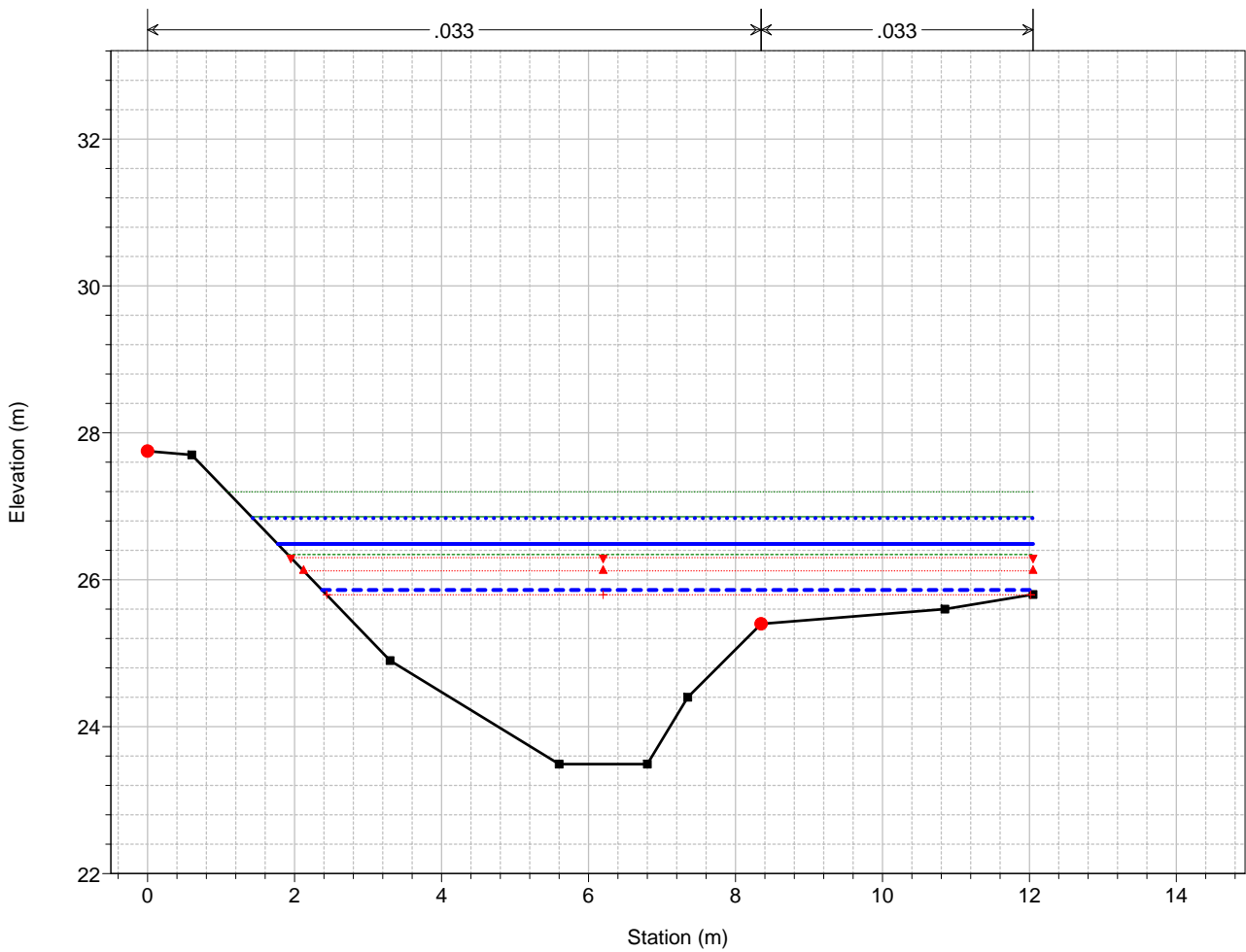
Legend	
EG T=500	—
EG T=200	—
EG T=50	—
PL T=500	⋯
Crit T=500	▼
Crit T=200	▲
PL T=200	—
PL T=50	—
Crit T=50	+
Fondo	■
Sponda	●

Rio Nuovo
Sez. NU06



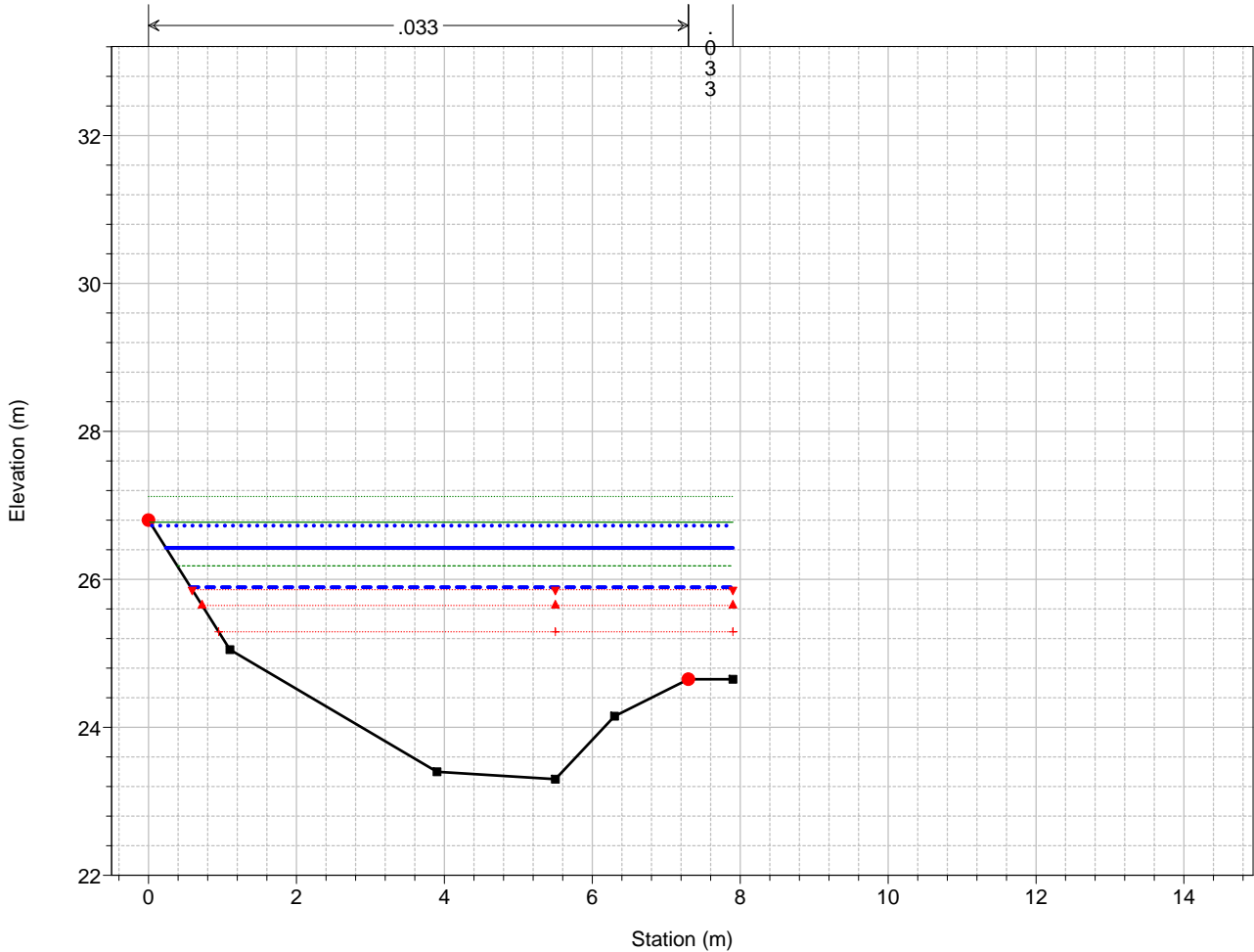
Legend	
EG T=500	—
EG T=200	—
EG T=50	—
Crit T=500	▼
Crit T=200	▲
Crit T=50	+
PL T=500	⋯
PL T=200	—
PL T=50	—
Fondo	■
Sponda	●

Rio Nuovo
Sez. NU05



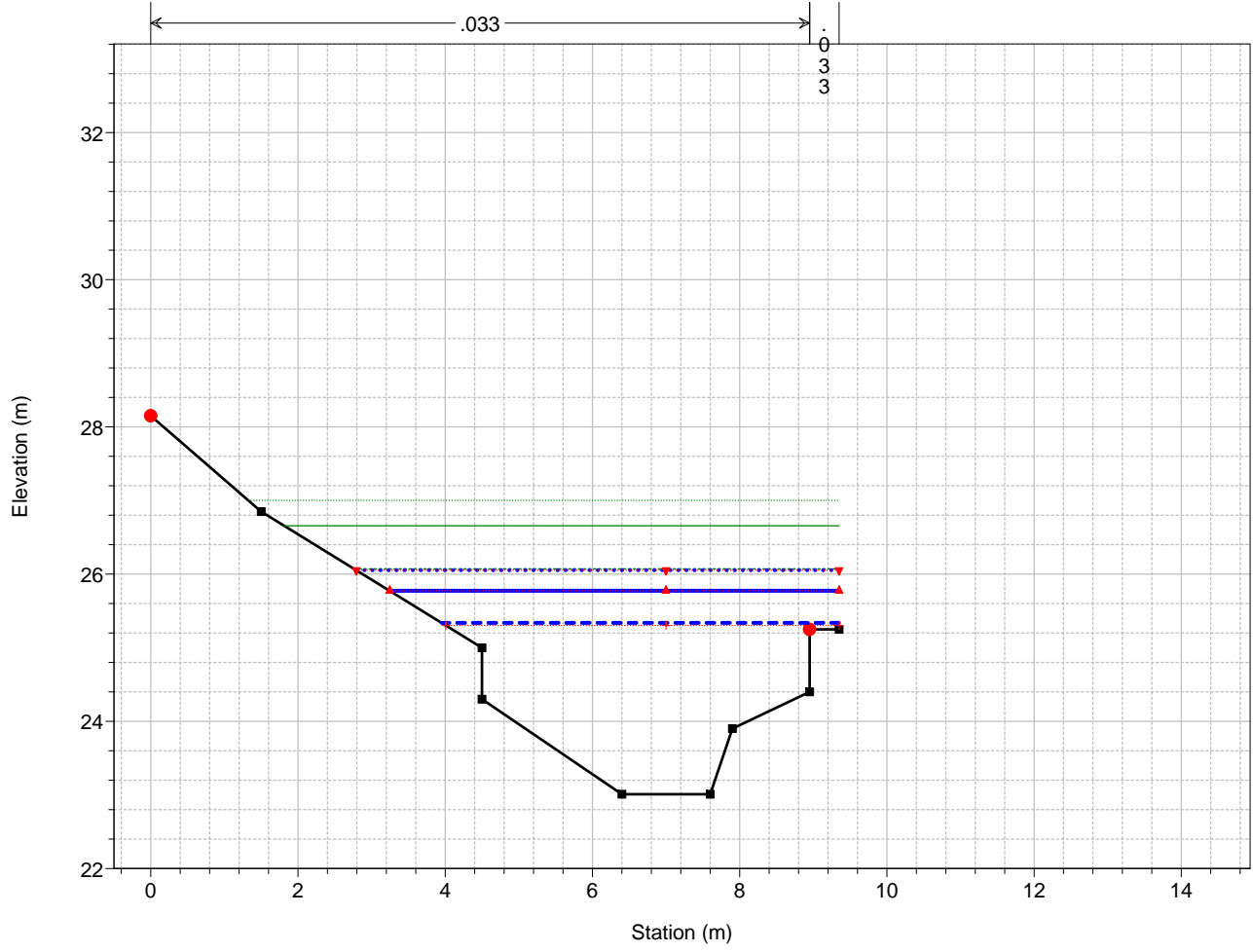
Legend	
EG T=500	(Green dotted line)
EG T=200	(Blue dotted line)
PL T=500	(Blue solid line)
PL T=200	(Blue solid line)
EG T=50	(Green dotted line)
Crit T=500	(Red dotted line with inverted triangles)
Crit T=200	(Red dotted line with triangles)
PL T=50	(Blue dashed line)
Crit T=50	(Red dotted line with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

Rio Nuovo
Sez. NU04



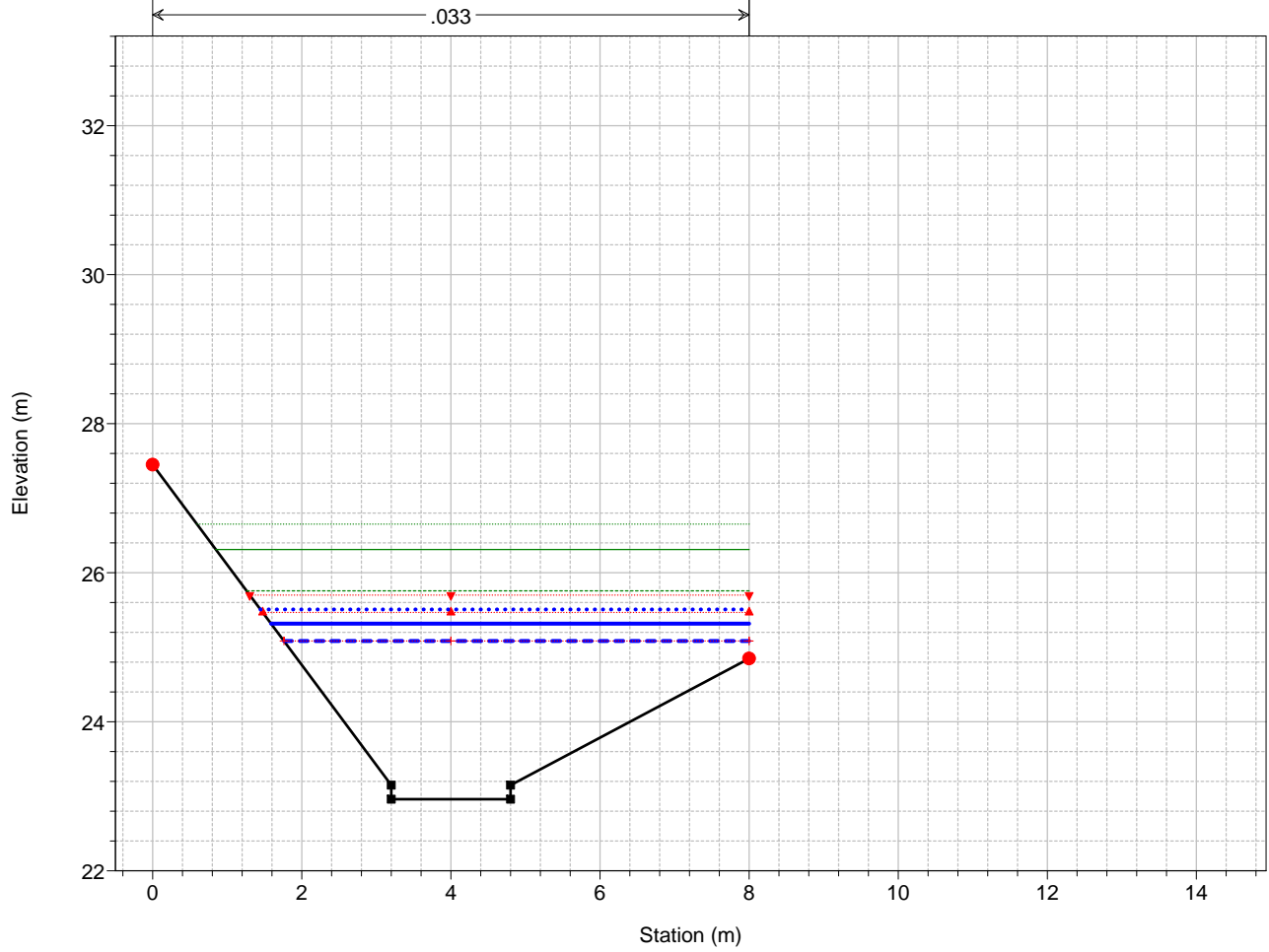
Legend	
EG T=500	(Green dotted line)
EG T=200	(Blue dotted line)
PL T=500	(Blue solid line)
PL T=200	(Blue solid line)
EG T=50	(Green dotted line)
PL T=50	(Blue dashed line)
Crit T=500	(Red dotted line with inverted triangles)
Crit T=200	(Red dotted line with triangles)
Crit T=50	(Red dotted line with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

Rio Nuovo
Sez. NU03



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

Rio Nuovo
Sez. NU02



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

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

HEC-RAS Plan: Pn River: Rio Nuovo Reach: Valle Scura

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
Valle Scura	9	T=50	30.00	25.10	27.88	27.10	-0.78	27.10	-0.78	27.88	28.66	0.037729	3.97	7.83	4.90	0.74
Valle Scura	9	T=200	43.00	25.10	28.29	27.10	-1.19	27.10	-1.19	28.29	29.29	0.039456	4.52	9.83	4.90	0.79
Valle Scura	9	T=500	52.00	25.10	28.55	27.10	-1.45	27.10	-1.45	28.55	29.69	0.039885	4.83	11.11	4.90	0.81
Valle Scura	8	T=50	30.00	24.65	27.50	27.20	-0.30	26.20	-1.30	26.88	27.85	0.004230	2.66	12.18	8.60	0.59
Valle Scura	8	T=200	43.00	24.65	28.10	27.20	-0.90	26.20	-1.90	27.35	28.47	0.003320	2.79	17.35	8.60	0.54
Valle Scura	8	T=500	52.00	24.65	28.43	27.20	-1.23	26.20	-2.23	27.67	28.83	0.003144	2.93	20.18	8.60	0.54
Valle Scura	7	T=50	30.00	24.32	26.85	27.20	0.35	26.40	-0.45	26.85	27.65	0.016346	3.99	7.66	4.96	0.99
Valle Scura	7	T=200	43.00	24.32	27.31	27.20	-0.11	26.40	-0.91	27.31	28.28	0.015310	4.39	10.09	5.74	0.99
Valle Scura	7	T=500	52.00	24.32	27.65	27.20	-0.45	26.40	-1.25	27.65	28.65	0.013071	4.50	12.21	6.55	0.93
Valle Scura	6	T=50	30.00	24.07	25.44	28.10	2.66	25.50	0.06	25.94	27.07	0.048220	5.66	5.30	5.68	1.87
Valle Scura	6	T=200	43.00	24.07	25.70	28.10	2.40	25.50	-0.20	26.31	27.70	0.048846	6.26	6.86	6.20	1.90
Valle Scura	6	T=500	52.00	24.07	25.86	28.10	2.24	25.50	-0.36	26.55	28.10	0.048978	6.63	7.84	6.37	1.91
Valle Scura	5	T=50	30.00	23.49	25.86	27.75	1.89	25.40	-0.46	25.79	26.34	0.008556	3.14	10.23	9.68	0.81
Valle Scura	5	T=200	43.00	23.49	26.49	27.75	1.26	25.40	-1.09	26.12	26.86	0.004953	2.82	16.47	10.28	0.64
Valle Scura	5	T=500	52.00	23.49	26.84	27.75	0.91	25.40	-1.44	26.30	27.20	0.004136	2.78	20.15	10.62	0.59
Valle Scura	4	T=50	30.00	23.30	25.90	26.80	0.90	24.65	-1.25	25.29	26.18	0.003642	2.40	12.95	7.33	0.57
Valle Scura	4	T=200	43.00	23.30	26.43	26.80	0.37	24.65	-1.78	25.65	26.77	0.003443	2.64	16.93	7.66	0.56
Valle Scura	4	T=500	52.00	23.30	26.73	26.80	0.07	24.65	-2.08	25.86	27.12	0.003477	2.81	19.26	7.85	0.57
Valle Scura	3	T=50	30.00	23.01	25.34	28.15	2.81	25.25	-0.09	25.30	26.07	0.015407	3.80	7.93	5.40	0.96
Valle Scura	3	T=200	43.00	23.01	25.77	28.15	2.38	25.25	-0.52	25.77	26.66	0.015130	4.18	10.44	6.10	1.00
Valle Scura	3	T=500	52.00	23.01	26.05	28.15	2.10	25.25	-0.80	26.05	27.00	0.014431	4.33	12.21	6.56	1.00
Valle Scura	2	T=50	30.00	22.96	25.08	27.45	2.37	24.85	-0.23	25.08	25.76	0.014373	3.63	8.25	6.24	1.01
Valle Scura	2	T=200	43.00	22.96	25.32	27.45	2.13	24.85	-0.47	25.47	26.31	0.018534	4.42	9.73	6.41	1.15
Valle Scura	2	T=500	52.00	22.96	25.51	27.45	1.94	24.85	-0.66	25.70	26.65	0.019373	4.74	10.97	6.55	1.17