



Provincia Regionale di Ragusa

Ammodernamento del tracciato stradale S.P. n. 46 ISPICA – POZZALLO I° STRALCIO FUNZIONALE

Responsabile Unico Procedimento

Dott. Ing. Salvatore Dipasquale

Dirigente Pianificazione del Territorio

Dott. Ing. Vincenzo Corallo

PROGETTO ESECUTIVO

OGGETTO: <ul style="list-style-type: none">● IDROLOGIA E IDRAULICA● STUDIO IDROLOGICO E IDRAULICO● SEZIONI IDRAULICHE ANTE OPERAM - T. SALVIA	ARCHIVIO	PR147
	SCALA	
	ELABORATO	4.1.7
GRUPPO DI PROGETTAZIONE	RESPONSABILE DELLE INTEGRAZIONI SPECIALISTICHE	
A.T.I.	Dott. Ing. M. Raccosta	
 TECHNITAL S.p.A. (Mandataria)	RESPONSABILI DI PROGETTO	
	Dott. Ing. M. Raccosta	
	Dott. Ing. G. Failla	
	Dott. Ing. F. Iudice	

REV.	DATA	DESCRIZIONE	REDATTO	CONTROLLATO	APPROVATO
2	SETTEMBRE 2014	EMISSIONE A SEGUITO ISTRUTTORIA ITALSOCOTEC del 15/07/2014	NOTARO	IUDICE A.	IUDICE F.
1	GIUGNO 2014	EMISSIONE A SEGUITO ISTRUTTORIA ITALSOCOTEC del 18/04/2014	NOTARO	A. IUDICE	F. IUDICE
0	MARZO 2014	PRIMA EMISSIONE	NOTARO	A. IUDICE	F. IUDICE

HEC-RAS Plan: Plan 22 River: Torrente Salvia Reach: SP46

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
SP46	29	Tr=100anni	83.66	39.70	41.99	41.61	42.23	0.007076	2.20	38.13	29.50	0.61
SP46	29	Tr=200anni	93.97	39.70	42.11	41.69	42.37	0.006638	2.26	41.98	31.81	0.60
SP46	29	Tr=500anni	107.60	39.70	42.10	41.79	42.45	0.008882	2.60	41.70	31.65	0.70
SP46	28	Tr=100anni	83.66	39.23	41.06	41.05	41.66	0.018418	3.41	24.61	20.36	0.97
SP46	28	Tr=200anni	93.97	39.23	41.15	41.15	41.80	0.018760	3.59	26.37	20.72	0.99
SP46	28	Tr=500anni	107.60	39.23	41.28	41.28	41.99	0.018141	3.73	29.13	21.28	0.99
SP46	27	Tr=100anni	83.66	38.91	40.39	40.36	40.86	0.018401	3.04	27.49	26.55	0.95
SP46	27	Tr=200anni	93.97	38.91	40.47	40.44	40.98	0.018493	3.18	29.59	26.88	0.97
SP46	27	Tr=500anni	107.60	38.91	40.49	40.55	41.14	0.022718	3.56	30.22	26.98	1.07
SP46	26	Tr=100anni	83.66	38.73	40.23	40.06	40.57	0.013053	2.60	32.12	30.54	0.81
SP46	26	Tr=200anni	93.97	38.73	40.32	40.15	40.69	0.012852	2.68	35.13	31.71	0.81
SP46	26	Tr=500anni	107.60	38.73	40.55	40.26	40.55	0.000116	0.28	332.12	209.60	0.08
SP46	25	Tr=100anni	83.66	38.13	39.67	39.67	40.20	0.019894	3.23	25.94	24.44	1.00
SP46	25	Tr=200anni	93.97	38.13	39.77	39.77	40.33	0.018936	3.31	28.46	27.01	0.99
SP46	25	Tr=500anni	107.60	38.13	39.90	39.90	40.49	0.017736	3.41	32.06	30.76	0.97
SP46	24	Tr=100anni	83.66	37.87	39.10	39.19	39.76	0.025554	3.58	23.36	22.53	1.12
SP46	24	Tr=200anni	93.97	37.87	39.45	39.28	39.47	0.001041	0.85	158.73	224.71	0.24
SP46	24	Tr=500anni	107.60	37.87	39.67	39.37	39.68	0.000583	0.70	207.37	225.02	0.18
SP46	23	Tr=100anni	83.66	37.07	39.25	38.64	39.27	0.000799	0.86	147.52	192.61	0.21
SP46	23	Tr=200anni	93.97	37.07	39.43	38.75	39.45	0.000533	0.75	182.22	194.19	0.17
SP46	23	Tr=500anni	107.60	37.07	39.65	38.89	39.67	0.000381	0.68	230.71	218.79	0.15
SP46	22.1	Tr=100anni	83.66	36.92	39.25	38.59	39.27	0.000408	0.63	185.51	192.63	0.15
SP46	22.1	Tr=200anni	93.97	36.92	39.43	38.70	39.44	0.000302	0.57	219.96	194.20	0.13
SP46	22.1	Tr=500anni	107.60	36.92	39.65	38.84	39.66	0.000240	0.54	268.31	218.79	0.12
SP46	22.05	Tr=100anni	83.66	36.61	39.24	38.75	39.26	0.000607	0.86	162.13	197.78	0.19
SP46	22.05	Tr=200anni	93.97	36.61	39.42	38.78	39.44	0.000427	0.75	198.88	205.44	0.16
SP46	22.05	Tr=500anni	107.60	36.61	39.65	38.82	39.66	0.000293	0.65	245.17	206.38	0.13

HEC-RAS Plan: Plan 22 River: Torrente Salvia Reach: SP46 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
SP46	22	Tr=100anni	83.66	36.59	38.45	38.45	39.18	0.019171	3.78	22.12	15.09	1.00
SP46	22	Tr=200anni	93.97	36.59	38.58	38.58	39.36	0.019054	3.91	24.04	15.48	1.00
SP46	22	Tr=500anni	107.60	36.59	38.74	38.74	39.57	0.018721	4.04	26.61	15.98	1.00
SP46	21	Tr=100anni	83.66	35.71	37.67	37.88	38.22	0.017471	3.33	27.46	37.72	0.95
SP46	21	Tr=200anni	93.97	35.71	37.71	37.97	38.34	0.019784	3.60	28.93	39.71	1.01
SP46	21	Tr=500anni	107.60	35.71	37.75	38.06	38.51	0.023334	3.96	30.43	41.28	1.10
SP46	20	Tr=100anni	83.66	35.36	37.56	37.49	37.80	0.006413	2.44	49.96	87.22	0.59
SP46	20	Tr=200anni	93.97	35.36	37.65	37.56	37.87	0.005924	2.42	58.26	95.58	0.57
SP46	20	Tr=500anni	107.60	35.36	37.74	37.63	37.96	0.005690	2.45	67.54	104.13	0.56
SP46	19	Tr=100anni	83.66	35.33	37.27	37.27	37.63	0.009209	2.85	38.31	63.53	0.71
SP46	19	Tr=200anni	93.97	35.33	37.37	37.37	37.71	0.008506	2.85	45.04	71.77	0.69
SP46	19	Tr=500anni	107.60	35.33	37.46	37.46	37.81	0.008428	2.94	51.81	79.01	0.70
SP46	18	Tr=100anni	83.66	34.84	36.32	36.50	36.94	0.020630	3.60	26.62	39.86	1.03
SP46	18	Tr=200anni	93.97	34.84	36.39	36.54	37.05	0.021024	3.75	29.41	43.29	1.04
SP46	18	Tr=500anni	107.60	34.84	36.50	36.72	37.15	0.019719	3.80	34.37	48.79	1.02
SP46	17	Tr=100anni	83.66	34.80	36.41	36.37	36.78	0.015131	2.69	32.72	46.18	0.86
SP46	17	Tr=200anni	93.97	34.80	36.51	36.46	36.87	0.013403	2.69	37.69	51.74	0.82
SP46	17	Tr=500anni	107.60	34.80	36.63	36.56	36.99	0.011850	2.70	44.27	57.98	0.79
SP46	16	Tr=100anni	83.66	34.09	36.15	35.62	36.37	0.005221	2.11	41.89	39.48	0.54
SP46	16	Tr=200anni	93.97	34.09	36.25	35.72	36.49	0.005267	2.21	46.17	45.66	0.55
SP46	16	Tr=500anni	107.60	34.09	36.36	35.85	36.62	0.005486	2.34	51.30	52.11	0.56
SP46	15	Tr=100anni	83.66	34.00	36.12	35.63	36.36	0.005682	2.17	41.47	48.75	0.56
SP46	15	Tr=200anni	93.97	34.00	36.24	35.73	36.48	0.005365	2.21	47.36	54.07	0.55
SP46	15	Tr=500anni	107.60	34.00	36.35	35.87	36.60	0.005293	2.30	53.88	59.46	0.56
SP46	14	Tr=100anni	83.66	33.27	35.93	35.41	36.21	0.006893	2.34	35.76	23.92	0.61
SP46	14	Tr=200anni	93.97	33.27	36.07	35.52	36.34	0.006095	2.31	45.70	67.17	0.58

HEC-RAS Plan: Plan 22 River: Torrente Salvia Reach: SP46 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
SP46	14	Tr=500anni	107.60	33.27	36.23	35.65	36.47	0.005283	2.28	56.50	71.45	0.55
SP46	13	Tr=100anni	83.66	32.86	35.73	35.31	36.09	0.009041	2.67	31.39	20.71	0.69
SP46	13	Tr=200anni	93.97	32.86	35.86	35.43	36.23	0.008860	2.72	36.99	48.47	0.69
SP46	13	Tr=500anni	107.60	32.86	36.01	35.59	36.37	0.008070	2.73	45.96	69.70	0.67
SP46	12	Tr=100anni	83.66	32.93	35.70	35.30	36.08	0.009346	2.72	30.74	20.16	0.70
SP46	12	Tr=200anni	93.97	32.93	35.82	35.42	36.22	0.009425	2.81	35.31	44.12	0.71
SP46	12	Tr=500anni	107.60	32.93	35.97	35.57	36.36	0.008659	2.84	43.42	61.64	0.69
SP46	11	Tr=100anni	83.66	32.90	35.62	35.19	36.01	0.006947	2.80	33.16	33.92	0.65
SP46	11	Tr=200anni	93.97	32.90	35.73	35.28	36.14	0.007125	2.94	37.13	43.18	0.66
SP46	11	Tr=500anni	107.60	32.90	35.87	35.45	36.30	0.006877	3.03	44.35	56.23	0.66
SP46	10.2	Tr=100anni	83.66	33.05	35.69	34.86	35.84	0.002956	1.74	48.05	27.85	0.41
SP46	10.2	Tr=200anni	93.97	33.05	35.79	34.86	35.97	0.003150	1.85	51.15	31.62	0.43
SP46	10.2	Tr=500anni	107.60	33.05	35.92	34.96	36.12	0.003389	1.98	55.39	36.15	0.45
SP46	10.15		Inl Struct									
SP46	10.1	Tr=100anni	83.66	34.00	35.32	35.32	35.83	0.020174	3.16	26.49	25.95	1.00
SP46	10.1	Tr=200anni	93.97	34.00	35.40	35.40	35.95	0.019821	3.27	28.77	26.45	1.00
SP46	10.1	Tr=500anni	107.60	34.00	35.51	35.51	36.10	0.019466	3.40	31.68	27.06	1.00
SP46	10.05	Tr=100anni	83.66	33.21	35.09	34.85	35.57	0.011824	3.08	27.18	17.89	0.80
SP46	10.05	Tr=200anni	93.97	33.21	35.24	34.97	35.74	0.011299	3.15	29.85	18.30	0.79
SP46	10.05	Tr=500anni	107.60	33.21	35.43	35.12	35.96	0.010629	3.22	33.43	18.83	0.77
SP46	10	Tr=100anni	83.66	33.11	35.27		35.45	0.003551	1.88	45.16	35.10	0.45
SP46	10	Tr=200anni	93.97	33.11	35.44		35.62	0.003288	1.91	51.83	47.48	0.44
SP46	10	Tr=500anni	107.60	33.11	35.65		35.83	0.002849	1.91	63.86	64.01	0.41
SP46	9	Tr=100anni	83.66	33.08	35.14		35.41	0.006293	2.39	37.64	34.13	0.60
SP46	9	Tr=200anni	93.97	33.08	35.32		35.58	0.005251	2.35	44.57	40.17	0.56
SP46	9	Tr=500anni	107.60	33.08	35.56		35.80	0.004191	2.28	55.09	47.90	0.51

HEC-RAS Plan: Plan 22 River: Torrente Salvia Reach: SP46 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
SP46	8	Tr=100anni	83.66	32.61	35.25	34.25	35.31	0.001316	1.26	91.69	95.15	0.27
SP46	8	Tr=200anni	93.97	32.61	35.43	34.49	35.49	0.001171	1.24	110.52	121.68	0.26
SP46	8	Tr=500anni	107.60	32.61	35.67	34.61	35.72	0.000855	1.12	142.73	139.60	0.22
SP46	7.99	Tr=100anni	83.66	32.23	35.11	34.08	35.29	0.002472	1.88	44.54	19.97	0.40
SP46	7.99	Tr=200anni	93.97	32.23	35.27	34.18	35.47	0.002474	1.97	47.77	19.99	0.41
SP46	7.99	Tr=500anni	107.60	32.23	35.47	34.31	35.69	0.002482	2.08	51.79	20.02	0.41
SP46	7.98	Tr=100anni	83.66	32.40	35.06	34.03	35.27	0.003694	2.03	41.12	17.52	0.42
SP46	7.98	Tr=200anni	93.97	32.40	35.21	34.13	35.45	0.003835	2.14	43.83	17.52	0.43
SP46	7.98	Tr=500anni	107.60	32.40	35.40	34.27	35.67	0.004018	2.28	47.20	17.52	0.44
SP46	7.975		Bridge									
SP46	7.97	Tr=100anni	83.66	32.40	34.97		35.20	0.004102	2.11	39.72	17.52	0.45
SP46	7.97	Tr=200anni	93.97	32.40	35.12		35.37	0.004249	2.22	42.37	17.52	0.46
SP46	7.97	Tr=500anni	107.60	32.40	35.31		35.59	0.004442	2.36	45.65	17.52	0.47
SP46	7.96	Tr=100anni	83.66	32.35	34.93		35.15	0.004197	2.10	39.78	17.87	0.45
SP46	7.96	Tr=200anni	93.97	32.35	35.08		35.33	0.004337	2.21	42.47	17.87	0.46
SP46	7.96	Tr=500anni	107.60	32.35	35.27		35.55	0.004519	2.35	45.79	17.87	0.47
SP46	7	Tr=100anni	83.66	32.34	34.34	34.34	35.06	0.021416	3.77	22.17	15.49	1.01
SP46	7	Tr=200anni	93.97	32.34	34.47	34.47	35.24	0.020966	3.88	24.23	15.91	1.00
SP46	7	Tr=500anni	107.60	32.34	34.62	34.62	35.45	0.020851	4.03	26.70	16.40	1.01
SP46	6	Tr=100anni	83.66	31.72	32.85	33.24	34.15	0.067582	5.06	16.55	19.33	1.74
SP46	6	Tr=200anni	93.97	31.72	32.92	33.33	34.33	0.066708	5.26	17.86	19.34	1.75
SP46	6	Tr=500anni	107.60	31.72	33.00	33.46	34.55	0.065912	5.52	19.51	19.34	1.75
SP46	5	Tr=100anni	83.66	31.63	33.53	33.13	33.86	0.008157	2.55	32.80	20.86	0.65
SP46	5	Tr=200anni	93.97	31.63	33.63	33.23	34.00	0.008414	2.69	34.97	20.90	0.66
SP46	5	Tr=500anni	107.60	31.63	33.76	33.34	34.18	0.008766	2.86	37.64	20.96	0.68

HEC-RAS Plan: Plan 22 River: Torrente Salvia Reach: SP46 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
SP46	3	Tr=100anni	83.66	31.52	32.84	32.56	33.12	0.009195	2.34	35.76	29.36	0.68
SP46	3	Tr=200anni	93.97	31.52	32.90	32.64	33.22	0.009943	2.51	37.51	29.36	0.71
SP46	3	Tr=500anni	107.60	31.52	32.98	32.74	33.35	0.010756	2.70	39.81	29.37	0.74
SP46	2	Tr=100anni	83.66	31.22	32.62	32.20	32.82	0.005998	1.98	42.29	32.65	0.55
SP46	2	Tr=200anni	93.97	31.22	32.64	32.27	32.88	0.007332	2.20	42.70	32.65	0.61
SP46	2	Tr=500anni	107.60	31.22	32.63	32.36	32.96	0.009654	2.52	42.65	32.65	0.70
SP46	1.45		Inl Struct									
SP46	1.4	Tr=100anni	83.66	29.87	31.41	31.41	31.87	0.022384	2.99	28.03	30.91	1.00
SP46	1.4	Tr=200anni	93.97	29.87	31.49	31.49	31.98	0.021866	3.10	30.32	30.98	1.00
SP46	1.4	Tr=500anni	107.60	29.87	31.58	31.58	32.11	0.021418	3.24	33.17	31.07	1.00
SP46	1.3	Tr=100anni	83.66	29.72	30.46	30.76	31.46	0.086513	4.44	18.82	33.45	1.89
SP46	1.3	Tr=200anni	93.97	29.72	30.51	30.83	31.58	0.083159	4.58	20.50	33.77	1.88
SP46	1.3	Tr=500anni	107.60	29.72	30.57	30.92	31.71	0.078308	4.73	22.76	34.19	1.85
SP46	1.25		Inl Struct									
SP46	1.2	Tr=100anni	83.66	27.40	29.81	28.56	29.86	0.000999	1.02	82.03	45.98	0.24
SP46	1.2	Tr=200anni	93.97	27.40	30.00	28.62	30.04	0.001177	0.98	95.75	64.83	0.26
SP46	1.2	Tr=500anni	107.60	27.40	30.21	28.71	30.26	0.000992	0.98	109.99	69.79	0.24
SP46	1.1	Tr=100anni	83.66	26.75	29.62	28.67	29.79	0.003023	1.83	45.75	23.54	0.42
SP46	1.1	Tr=200anni	93.97	26.75	29.78	28.77	29.96	0.002999	1.89	49.60	23.98	0.42
SP46	1.1	Tr=500anni	107.60	26.75	29.98	28.89	30.18	0.002967	1.97	54.55	24.53	0.42
SP46	1	Tr=100anni	83.66	26.44	28.73	28.60	29.36	0.012882	3.54	24.44	16.66	0.85
SP46	1	Tr=200anni	93.97	26.44	28.85	28.73	29.53	0.012879	3.70	26.46	17.21	0.86
SP46	1	Tr=500anni	107.60	26.44	28.99	28.90	29.75	0.012876	3.89	29.07	17.90	0.88

HEC-RAS Plan: Plan 22 River: Torrente Salvia Reach: SP46

Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Vel Head (m)	Frctn Loss (m)	C & E Loss (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Top Width (m)
SP46	11	Tr=100anni	36.01	35.62	0.38	0.10	0.07	2.45	79.52	1.69	33.92
SP46	11	Tr=200anni	36.14	35.73	0.42	0.10	0.07	2.83	87.92	3.23	43.18
SP46	11	Tr=500anni	36.30	35.87	0.43	0.11	0.07	3.51	97.03	7.06	56.23
SP46	10.2	Tr=100anni	35.84	35.69	0.15				83.66	0.00	27.85
SP46	10.2	Tr=200anni	35.97	35.79	0.17				93.90	0.07	31.62
SP46	10.2	Tr=500anni	36.12	35.92	0.20				107.21	0.39	36.15
SP46	10.15		Inl Struct								
SP46	10.1	Tr=100anni	35.83	35.32	0.51	0.10	0.01		83.66		25.95
SP46	10.1	Tr=200anni	35.95	35.40	0.54	0.10	0.02		93.97		26.45
SP46	10.1	Tr=500anni	36.10	35.51	0.59	0.09	0.03		107.60		27.06
SP46	10.05	Tr=100anni	35.57	35.09	0.48	0.03	0.09		83.66		17.89
SP46	10.05	Tr=200anni	35.74	35.24	0.50	0.02	0.10		93.97		18.30
SP46	10.05	Tr=500anni	35.96	35.43	0.53	0.02	0.10		107.60		18.83
SP46	3	Tr=100anni	33.12	32.84	0.28	0.27	0.02		83.66		29.36
SP46	3	Tr=200anni	33.22	32.90	0.32	0.31	0.02		93.97		29.36
SP46	3	Tr=500anni	33.35	32.98	0.37	0.38	0.01		107.60		29.37
SP46	2	Tr=100anni	32.82	32.62	0.20				83.66		32.65
SP46	2	Tr=200anni	32.88	32.64	0.25				93.97		32.65
SP46	2	Tr=500anni	32.96	32.63	0.32				107.60		32.65
SP46	1.45		Inl Struct								
SP46	1.4	Tr=100anni	31.87	31.41	0.45	0.13	0.02		83.66		30.91
SP46	1.4	Tr=200anni	31.98	31.49	0.49	0.13	0.02		93.97		30.98
SP46	1.4	Tr=500anni	32.11	31.58	0.54	0.13	0.03		107.60		31.07
SP46	1.3	Tr=100anni	31.46	30.46	1.01	0.24	0.17		83.66		33.45
SP46	1.3	Tr=200anni	31.58	30.51	1.07	0.23	0.17		93.97		33.77

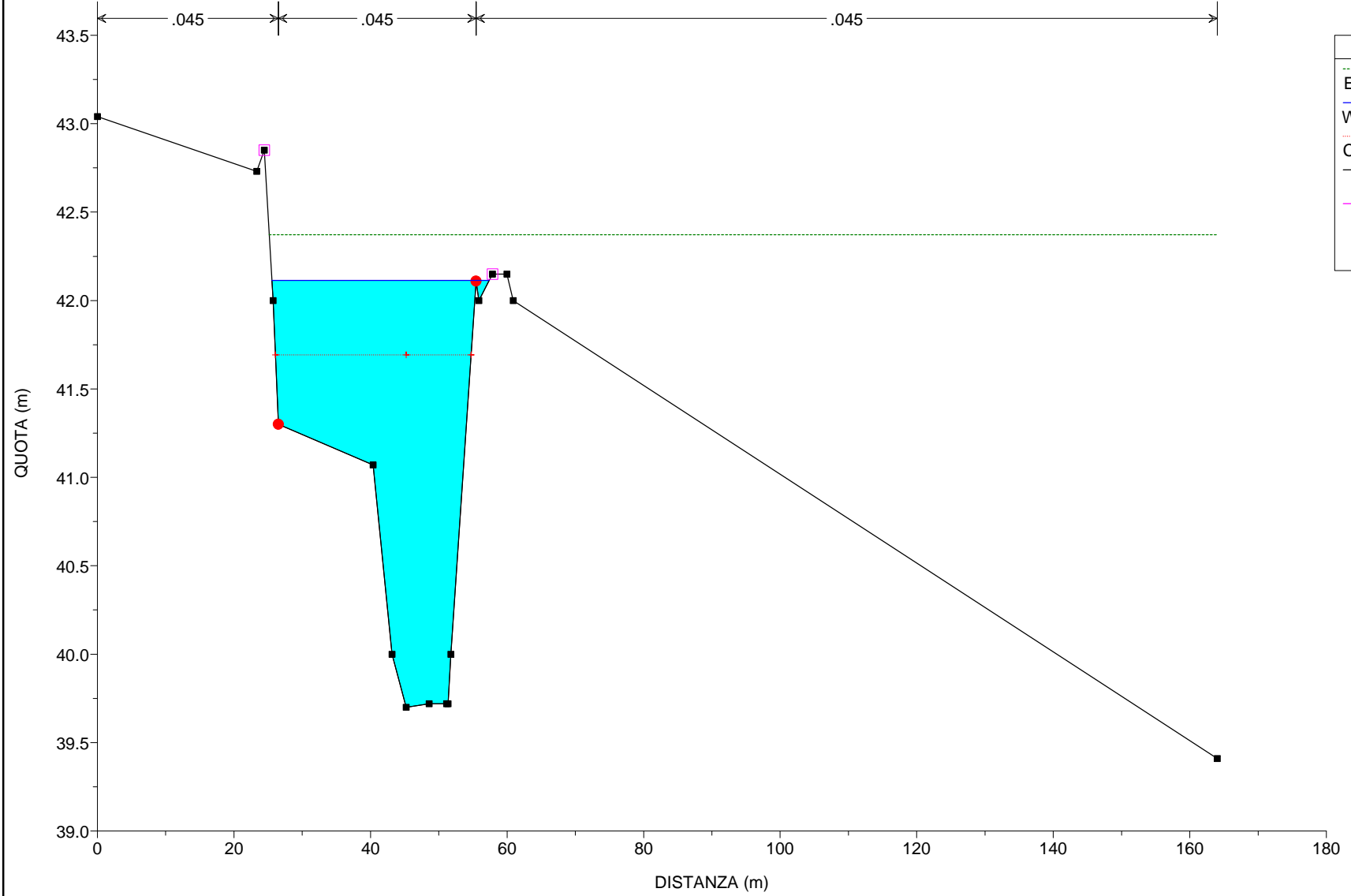
HEC-RAS Plan: Plan 22 River: Torrente Salvia Reach: SP46 (Continued)

Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Vel Head (m)	Frctn Loss (m)	C & E Loss (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Top Width (m)
SP46	1.3	Tr=500anni	31.71	30.57	1.14	0.22	0.18		107.60		34.19
SP46	1.25		Inl Struct								
SP46	1.2	Tr=100anni	29.86	29.81	0.05	0.06	0.01		83.66		45.98
SP46	1.2	Tr=200anni	30.04	30.00	0.05	0.07	0.01	0.00	93.97		64.83
SP46	1.2	Tr=500anni	30.26	30.21	0.05	0.06	0.01	0.01	107.55	0.04	69.79
SP46	1.1	Tr=100anni	29.79	29.62	0.17	0.38	0.05		83.66		23.54
SP46	1.1	Tr=200anni	29.96	29.78	0.18	0.38	0.05		93.97		23.98
SP46	1.1	Tr=500anni	30.18	29.98	0.20	0.38	0.06		107.60		24.53

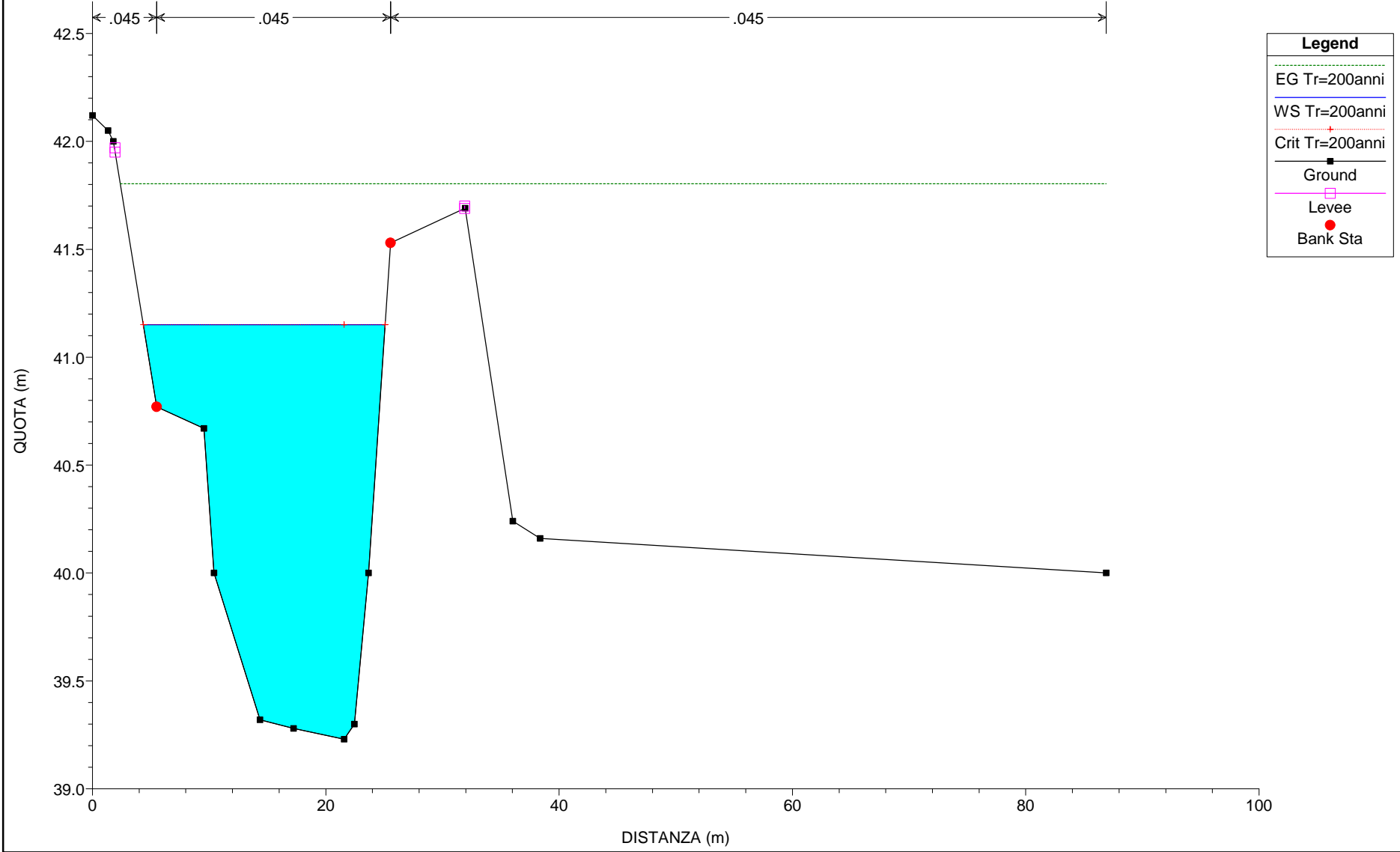
HEC-RAS Plan: Plan 22 River: Torrente Salvia Reach: SP46

Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Crit W.S. (m)	Frctn Loss (m)	C & E Loss (m)	Top Width (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Vel Chnl (m/s)
SP46	7.99	Tr=100anni	35.29	35.11	34.08	0.02	0.00	19.97	0.00	83.64	0.02	1.88
SP46	7.99	Tr=200anni	35.47	35.27	34.18	0.02	0.00	19.99	0.00	93.94	0.03	1.97
SP46	7.99	Tr=500anni	35.69	35.47	34.31	0.02	0.00	20.02	0.00	107.55	0.05	2.08
SP46	7.98	Tr=100anni	35.27	35.06	34.03	0.00	0.00	17.52		83.66		2.03
SP46	7.98	Tr=200anni	35.45	35.21	34.13	0.00	0.00	17.52		93.97		2.14
SP46	7.98	Tr=500anni	35.67	35.40	34.27	0.00	0.00	17.52		107.60		2.28
SP46	7.975 BR U	Tr=100anni	35.27	35.05	34.03	0.06	0.00	17.51		83.66		2.04
SP46	7.975 BR U	Tr=200anni	35.44	35.21	34.14	0.07	0.00	17.51		93.97		2.15
SP46	7.975 BR U	Tr=500anni	35.67	35.40	34.27	0.07	0.00	17.51		107.60		2.28
SP46	7.975 BR D	Tr=100anni	35.20	34.98	34.03	0.00	0.00	17.52		83.66		2.10
SP46	7.975 BR D	Tr=200anni	35.38	35.13	34.14	0.00	0.00	17.52		93.97		2.21
SP46	7.975 BR D	Tr=500anni	35.60	35.31	34.27	0.00	0.00	17.52		107.60		2.35
SP46	7.97	Tr=100anni	35.20	34.97		0.04	0.00	17.52		83.66		2.11
SP46	7.97	Tr=200anni	35.37	35.12		0.04	0.00	17.52		93.97		2.22
SP46	7.97	Tr=500anni	35.59	35.31		0.04	0.00	17.52		107.60		2.36
SP46	7.96	Tr=100anni	35.15	34.93		0.04	0.05	17.87		83.66		2.10
SP46	7.96	Tr=200anni	35.33	35.08		0.04	0.05	17.87		93.97		2.21
SP46	7.96	Tr=500anni	35.55	35.27		0.04	0.05	17.87		107.60		2.35

River = Torrente Salvia Reach = SP46 RS = 29
ANTE OPERA

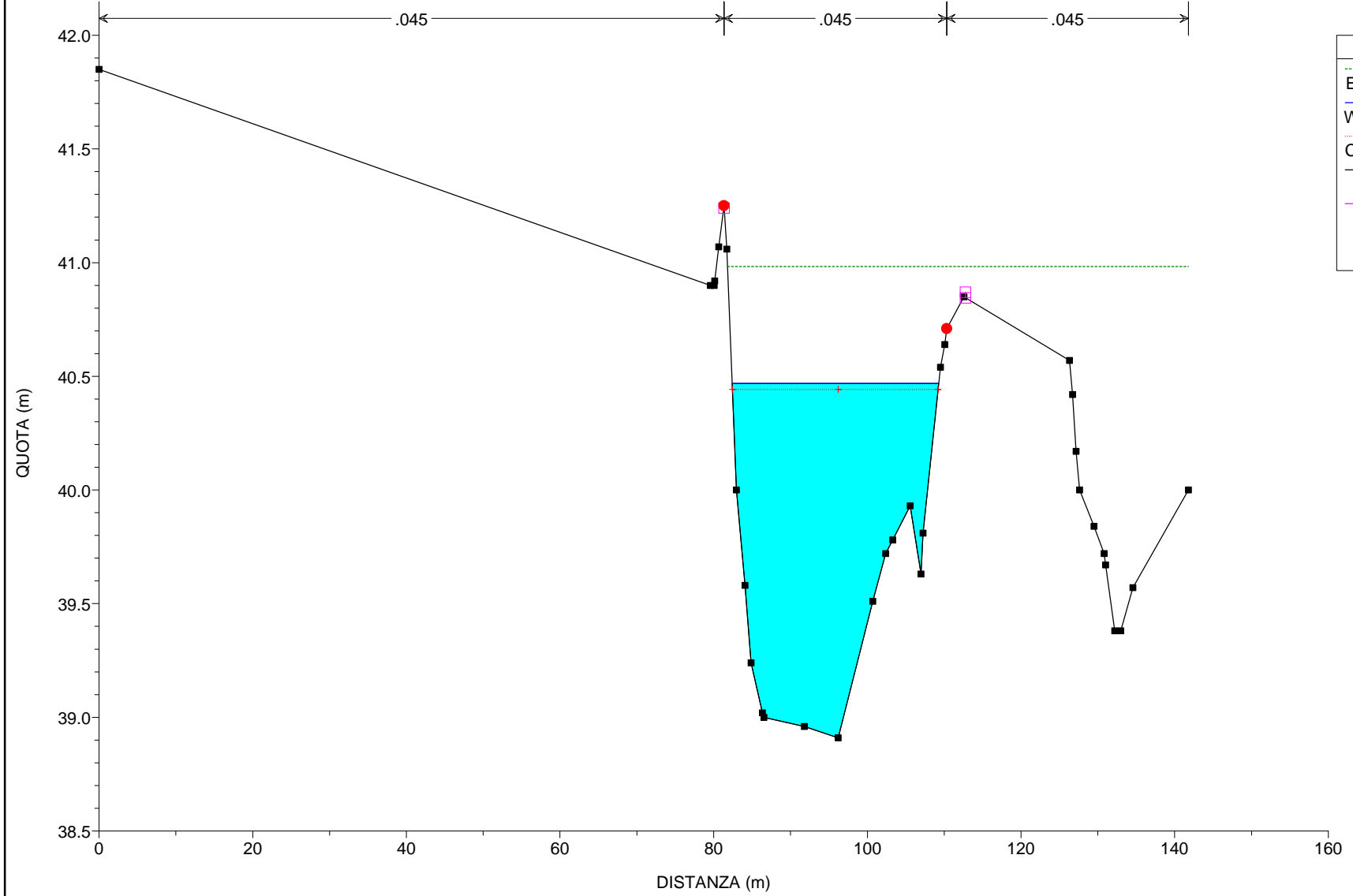


River = Torrente Salvia Reach = SP46 RS = 28
ANTE OPERA



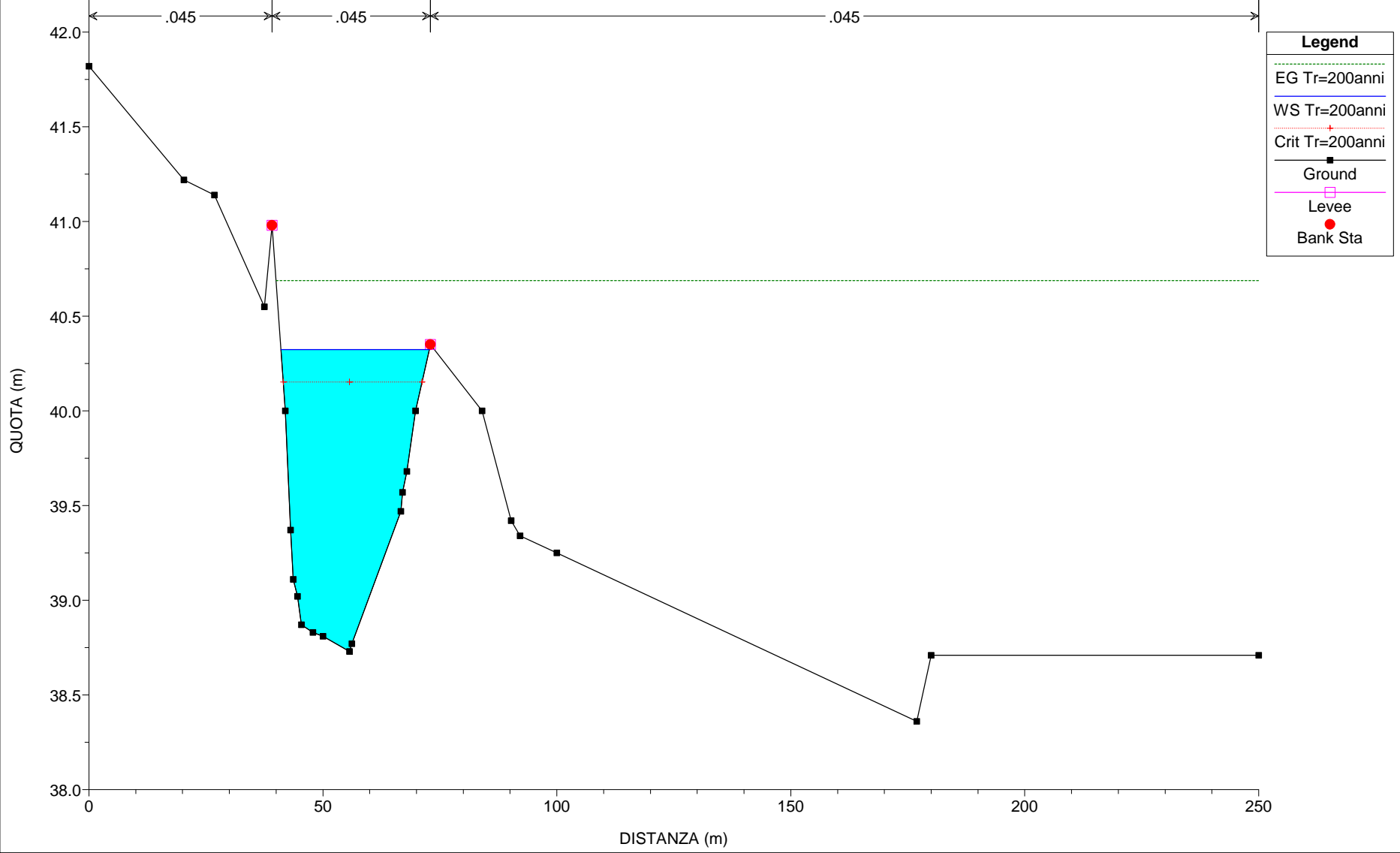
River = Torrente Salvia Reach = SP46 RS = 27

ANTE OPERA

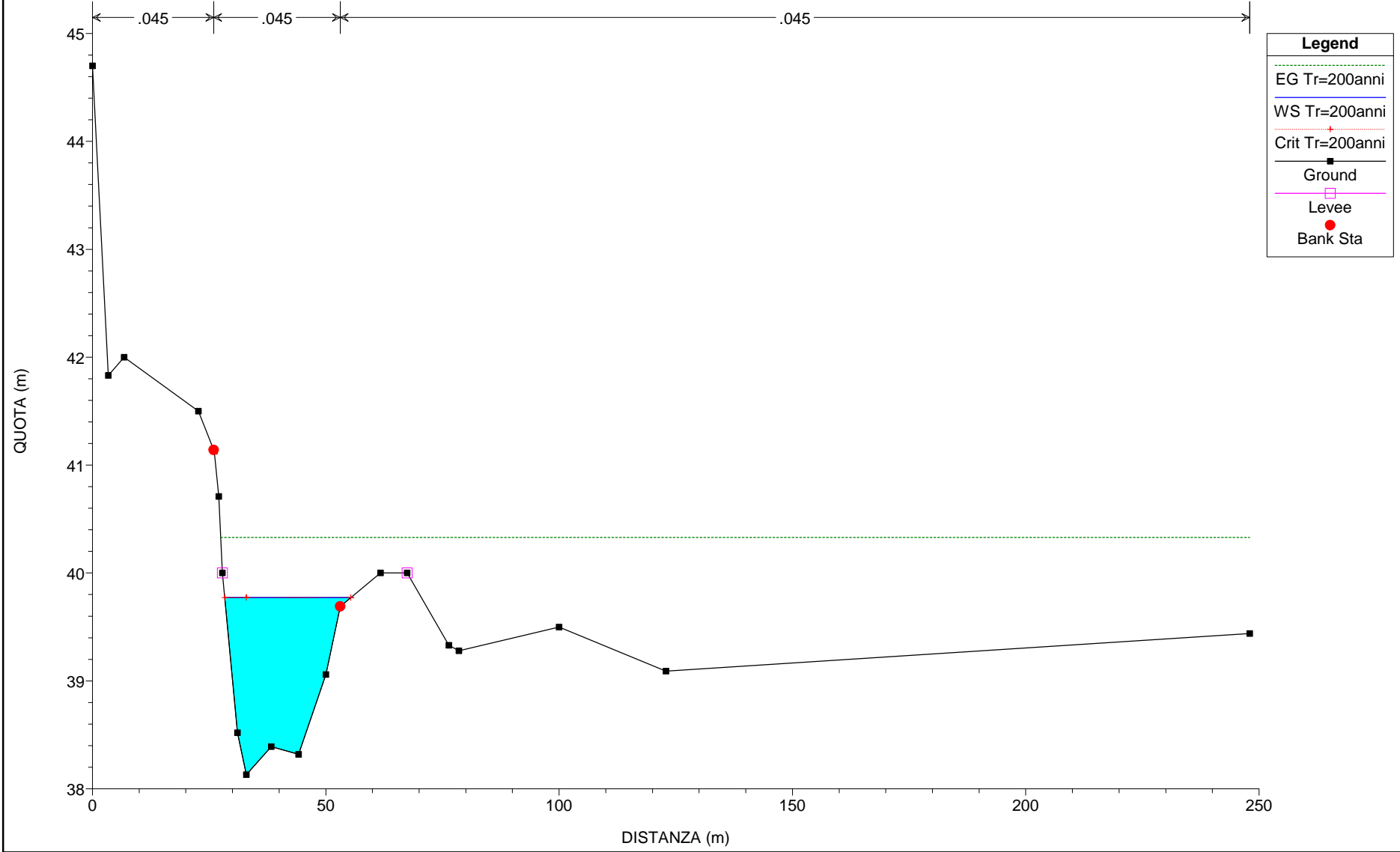


Legend	
EG Tr=200anni	(Green dotted line)
WS Tr=200anni	(Blue solid line)
Crit Tr=200anni	(Red dotted line with cross)
Ground	(Black line with square)
Levee	(Magenta square)
Bank Sta	(Red circle)

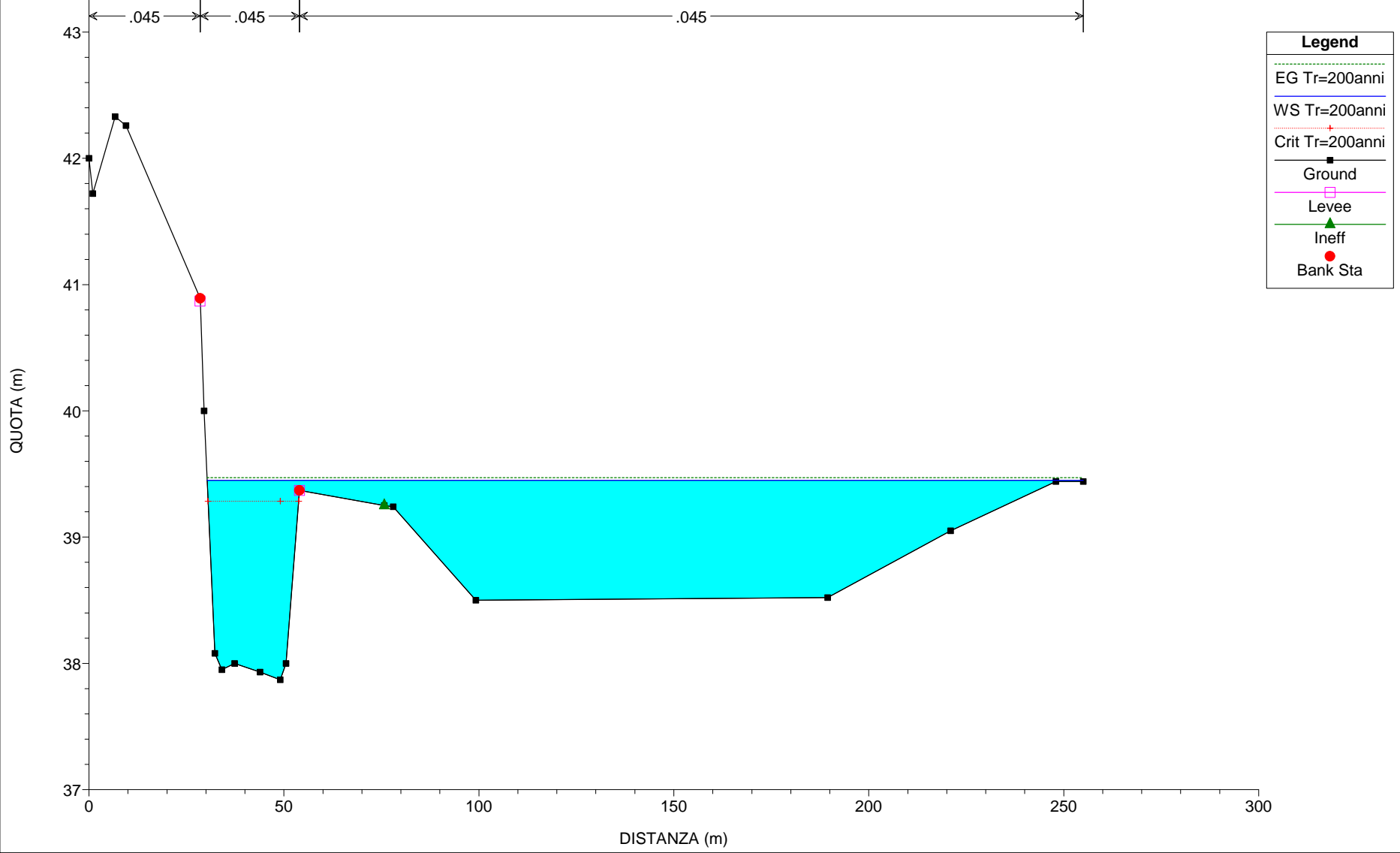
River = Torrente Salvia Reach = SP46 RS = 26
ANTE OPERA



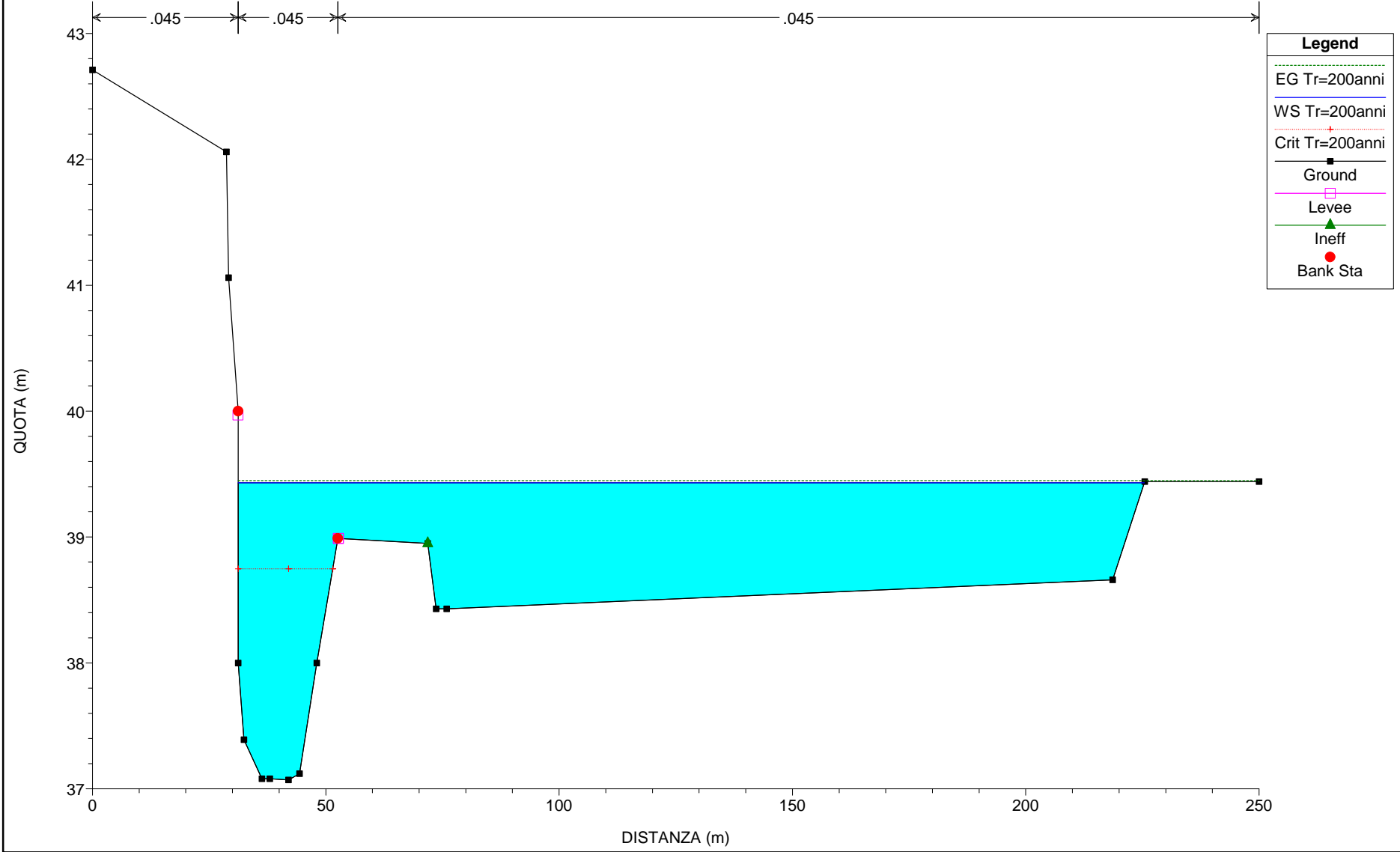
River = Torrente Salvia Reach = SP46 RS = 25
ANTE OPERA



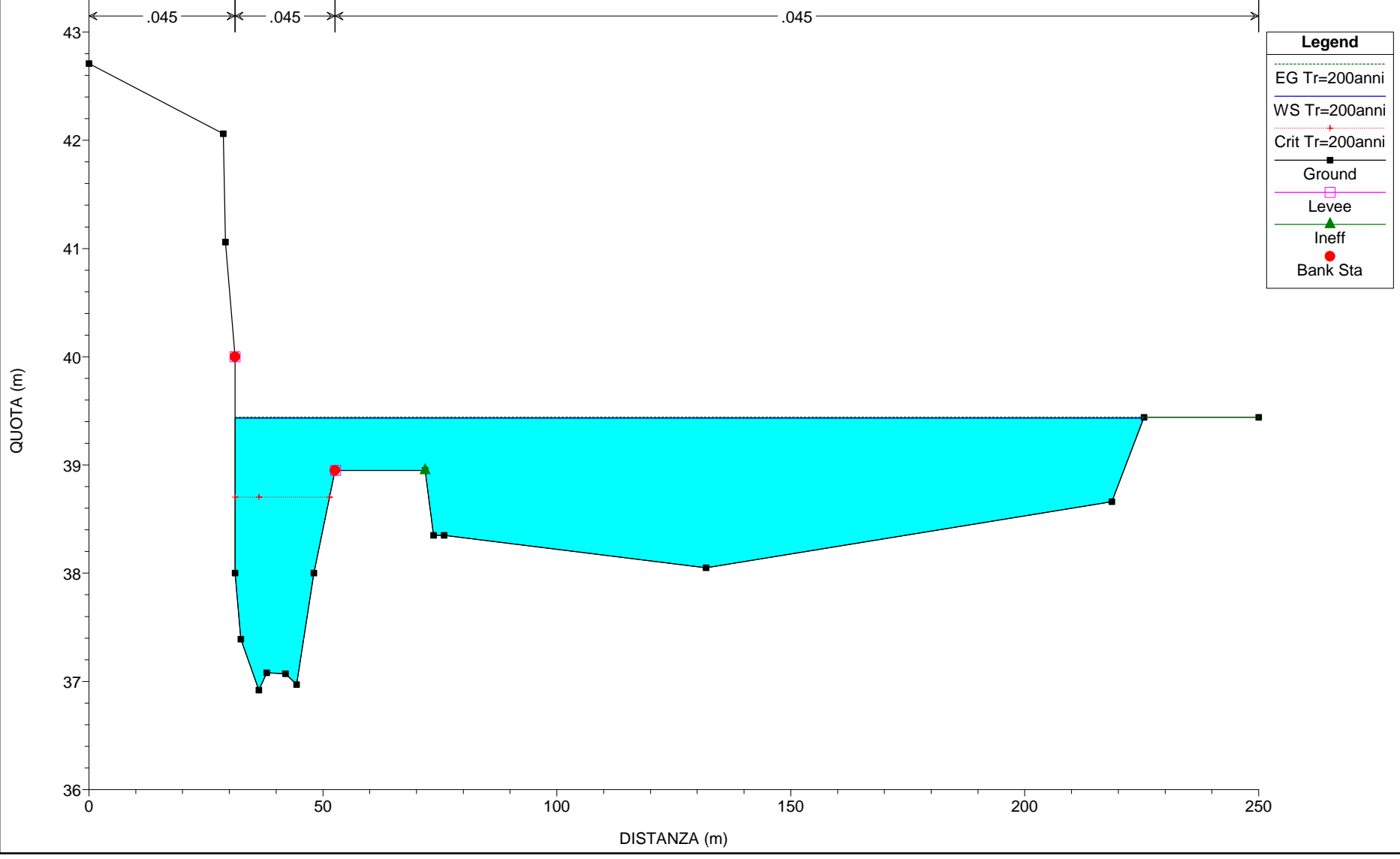
River = Torrente Salvia Reach = SP46 RS = 24
 ANTE OPERA



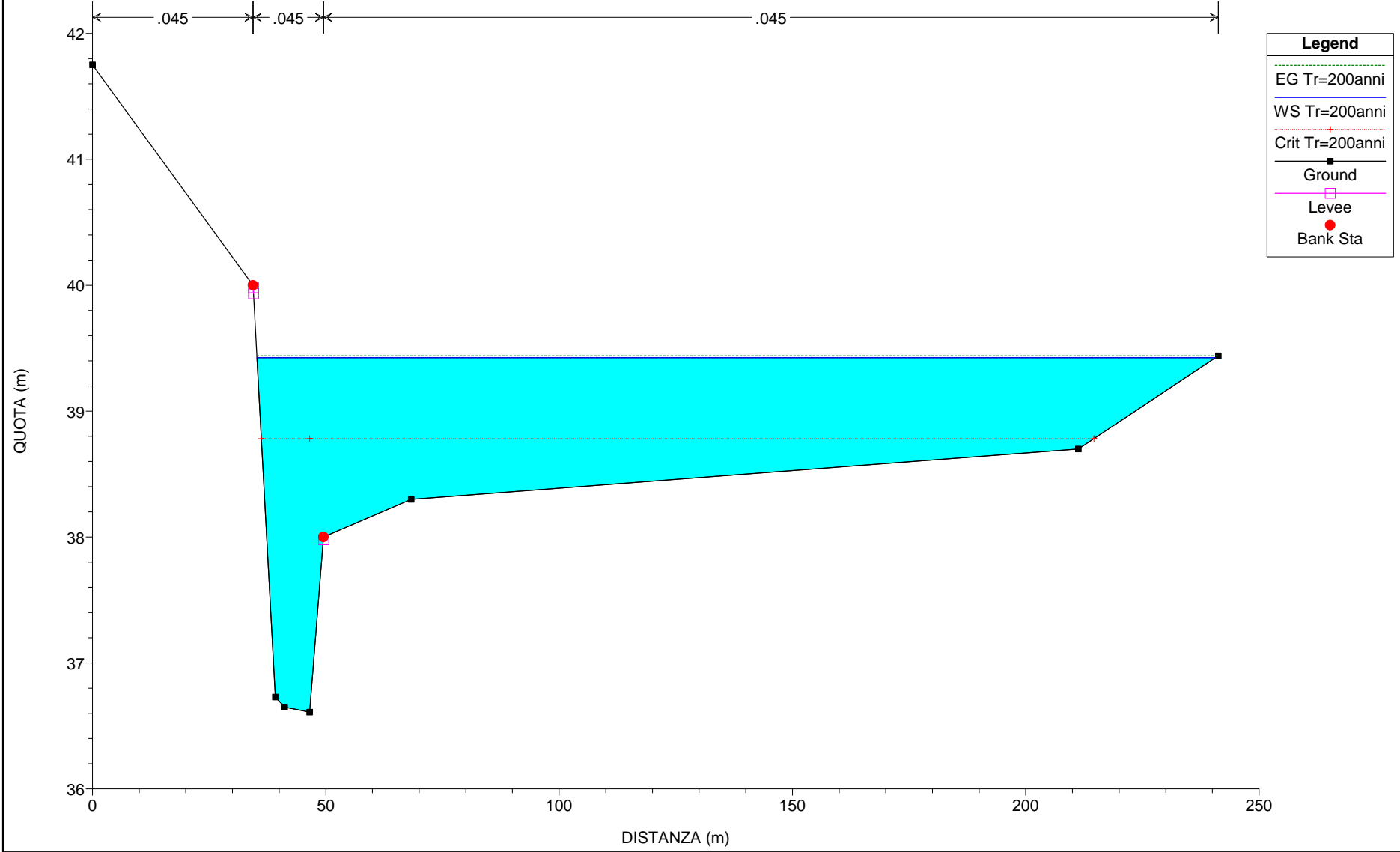
River = Torrente Salvia Reach = SP46 RS = 23
ANTE OPERA



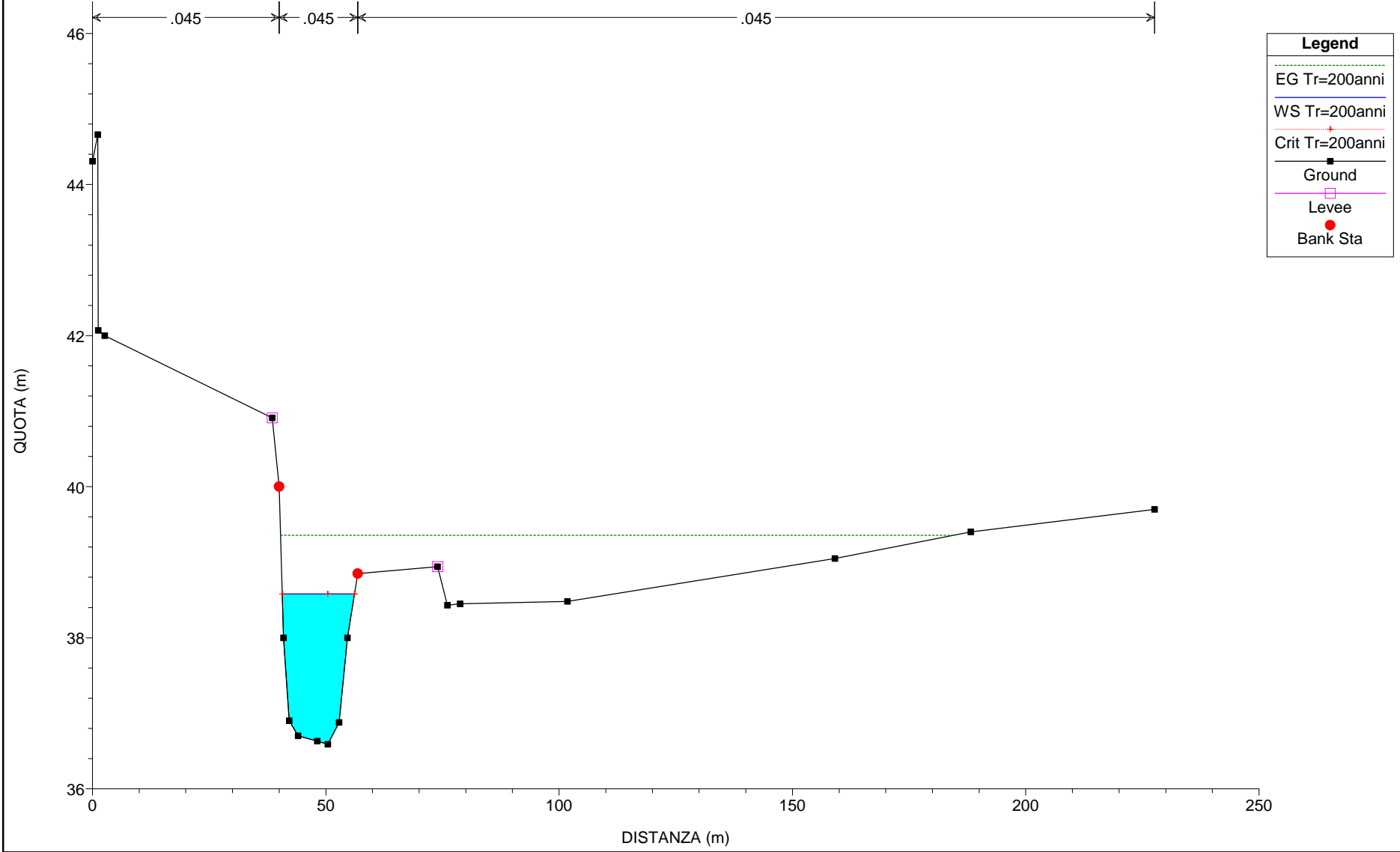
River = Torrente Salvia Reach = SP46 RS = 22.1
 ANTE OPERA



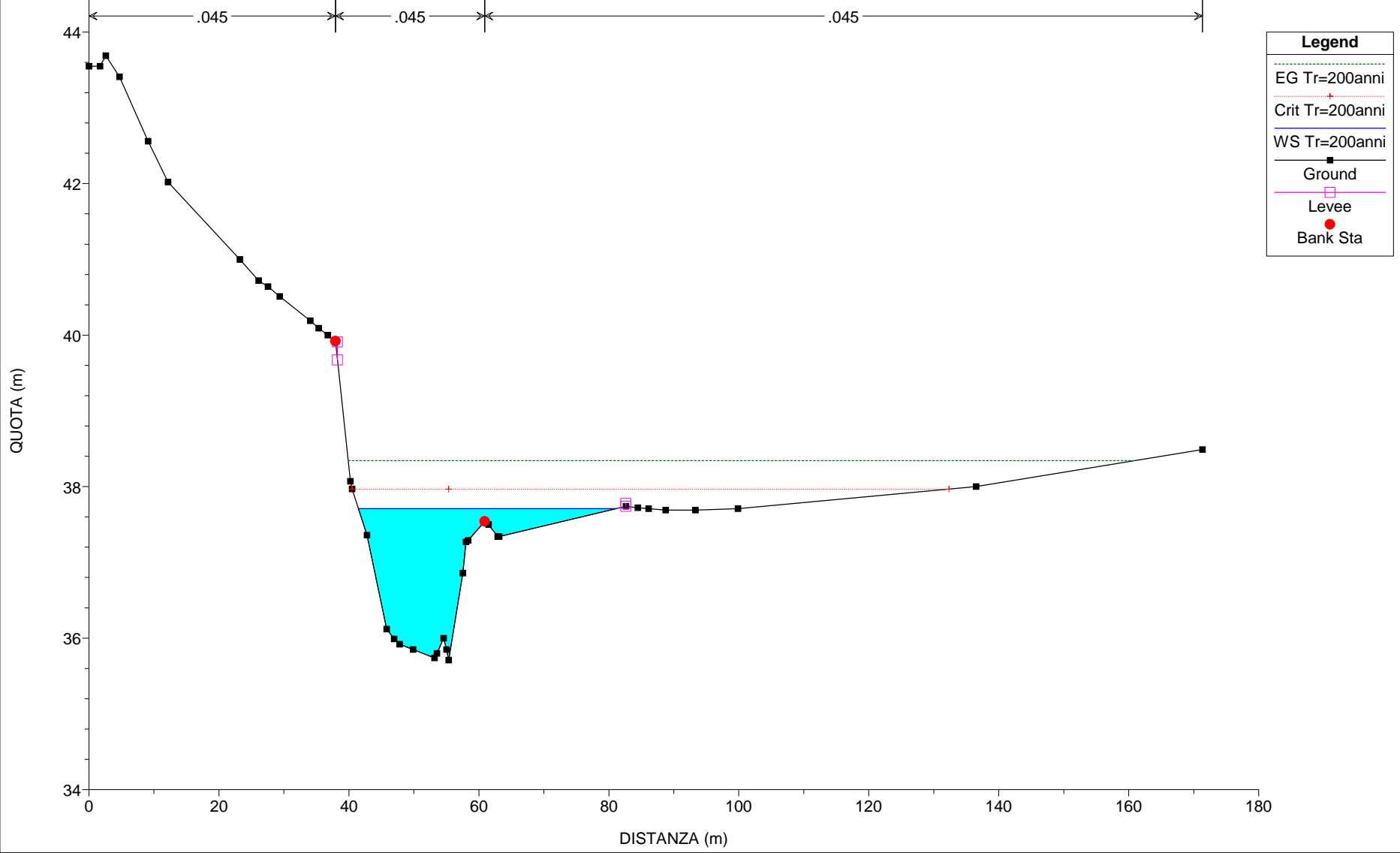
River = Torrente Salvia Reach = SP46 RS = 22.05
ANTE OPERA



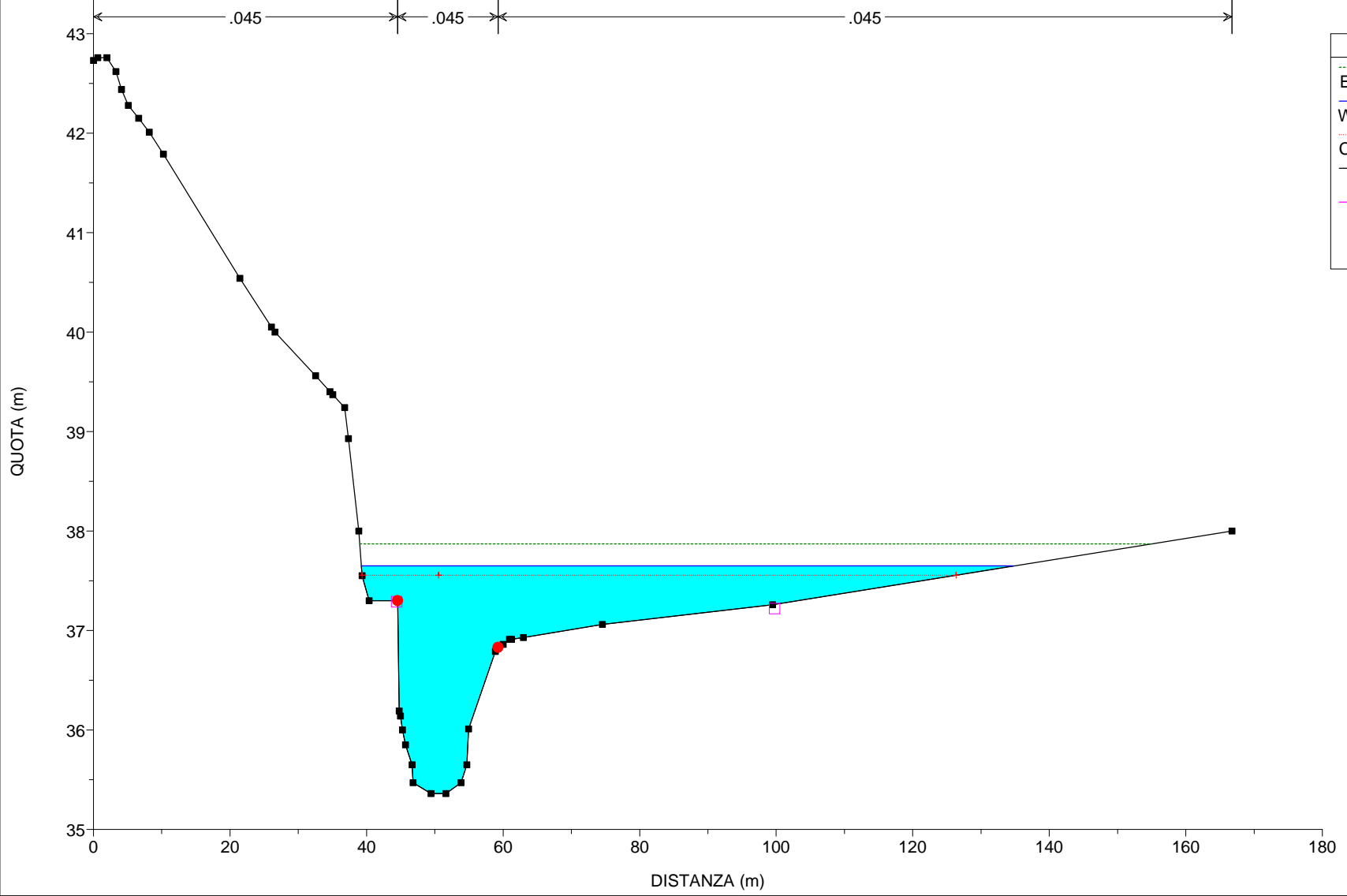
River = Torrente Salvia Reach = SP46 RS = 22
ANTE OPERA



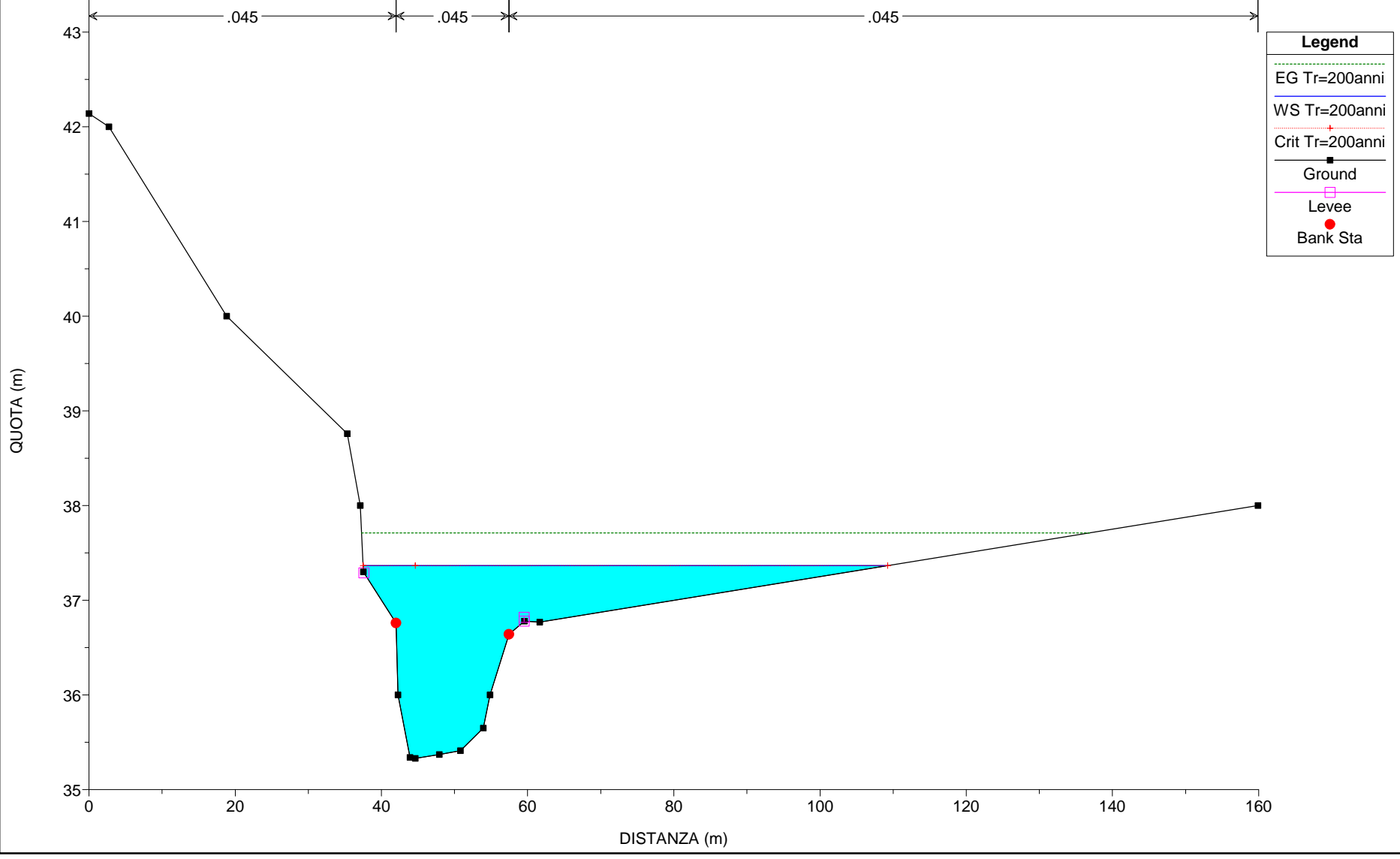
River = Torrente Salvia Reach = SP46 RS = 21
ANTE OPERA



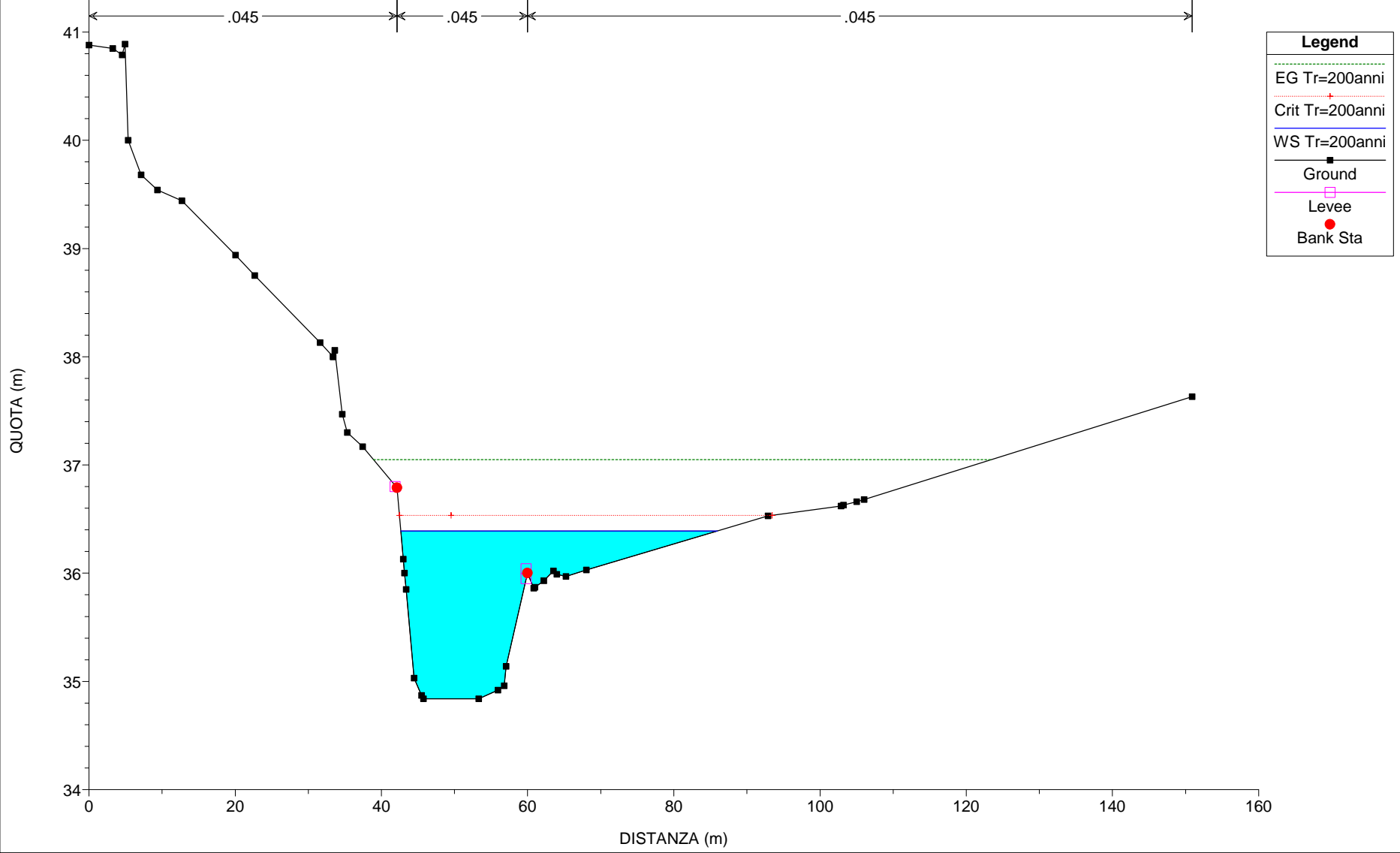
River = Torrente Salvia Reach = SP46 RS = 20
ANTE OPERA



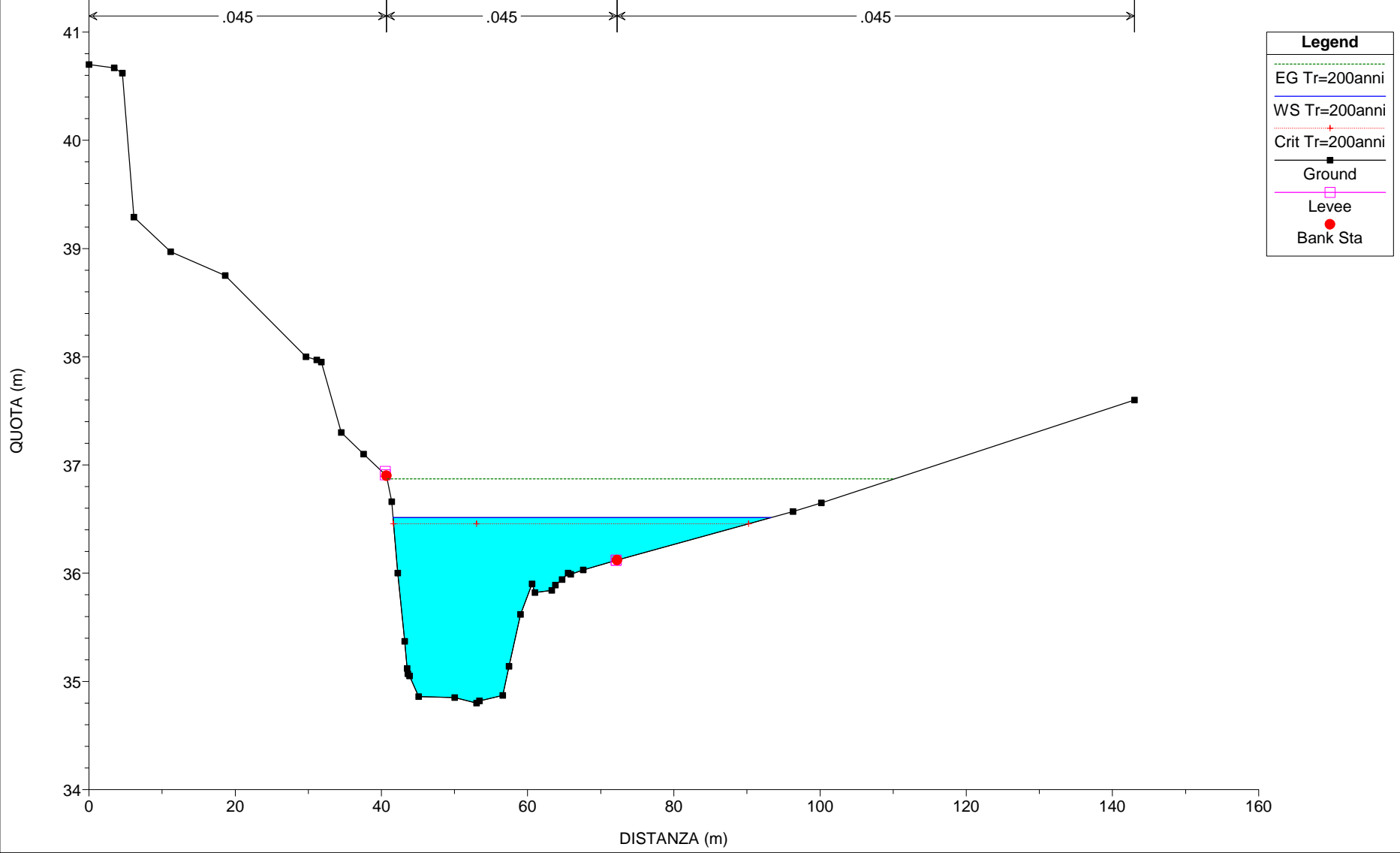
River = Torrente Salvia Reach = SP46 RS = 19
ANTE OPERA



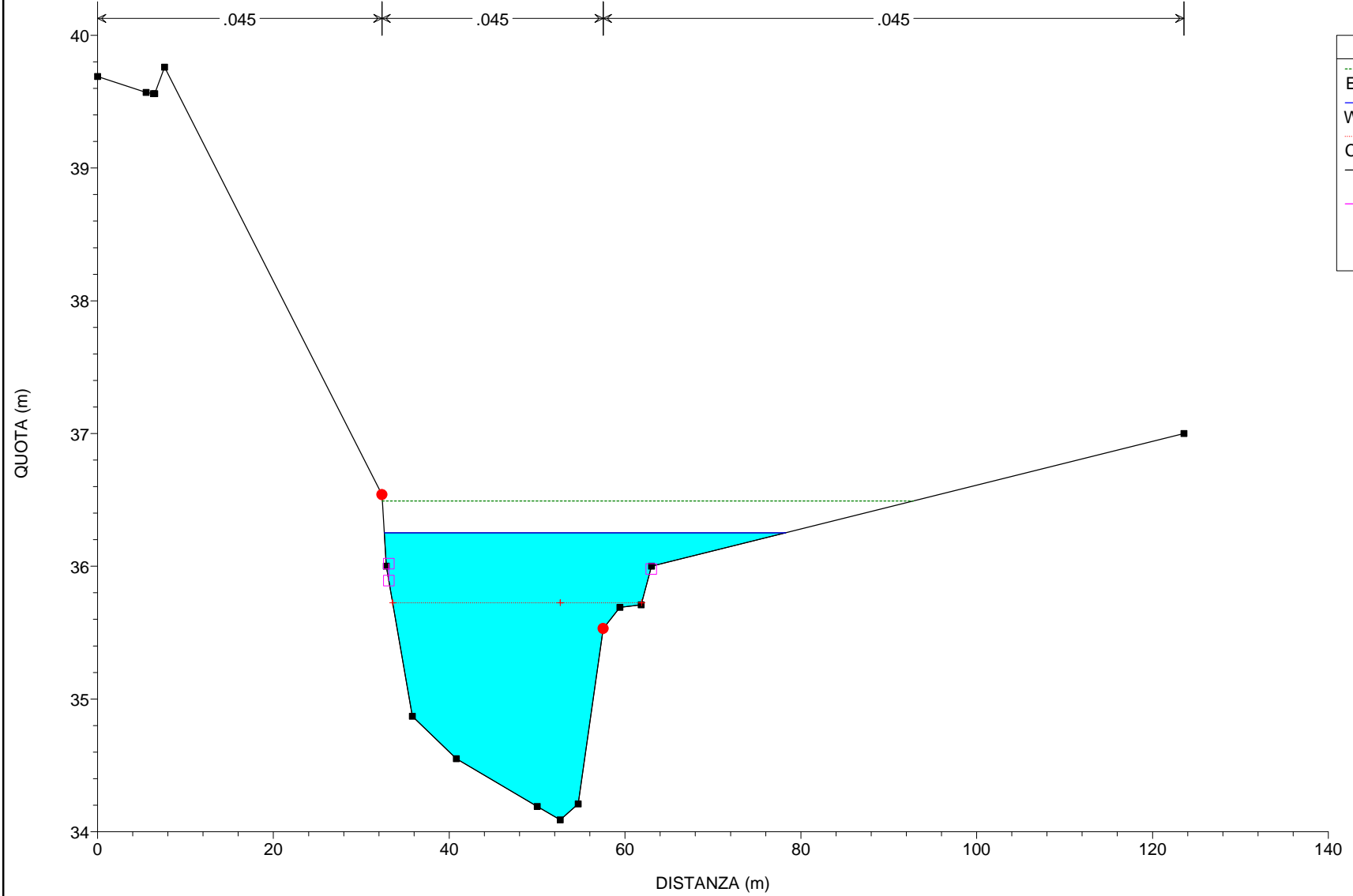
River = Torrente Salvia Reach = SP46 RS = 18
ANTE OPERA



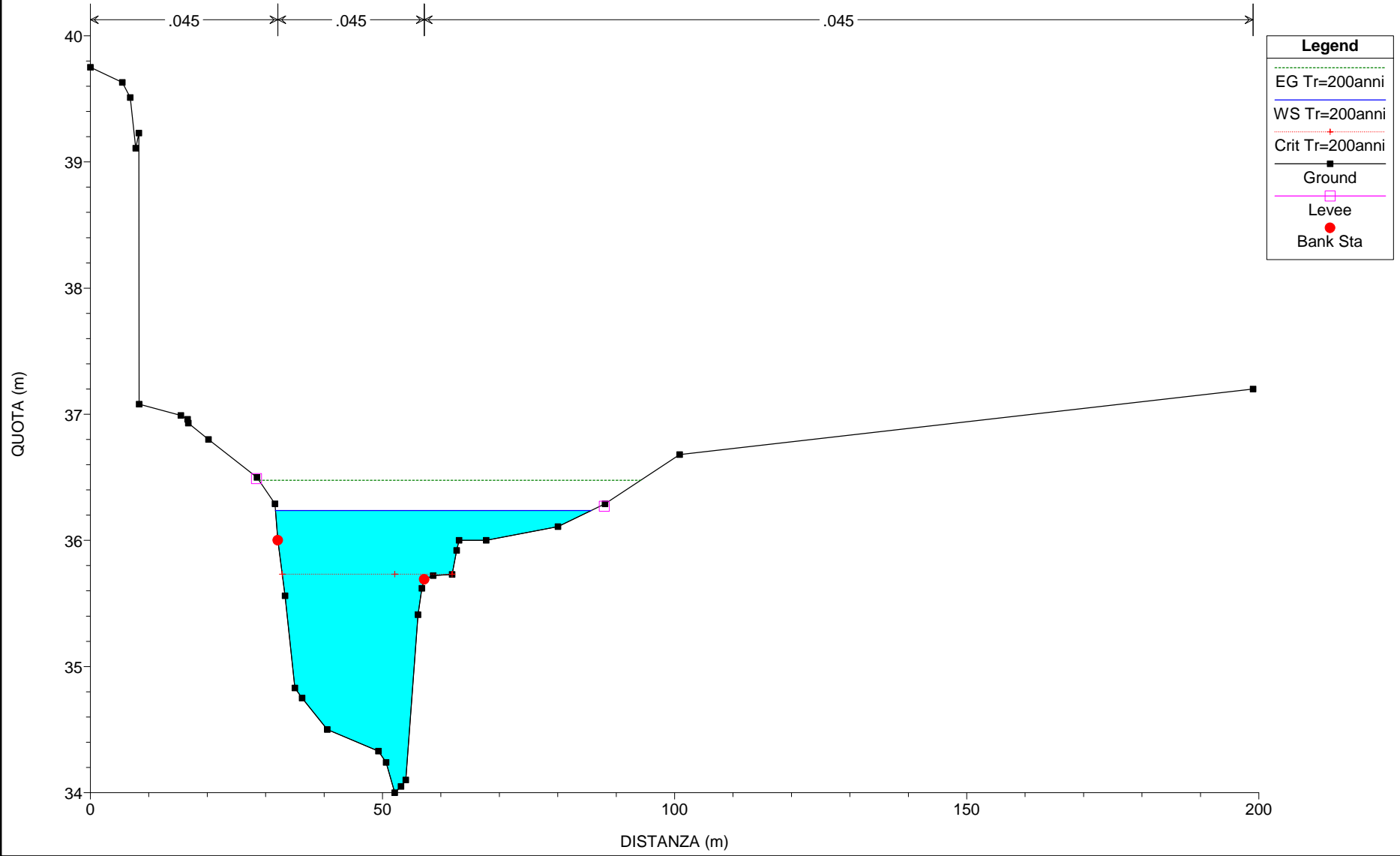
River = Torrente Salvia Reach = SP46 RS = 17
ANTE OPERA



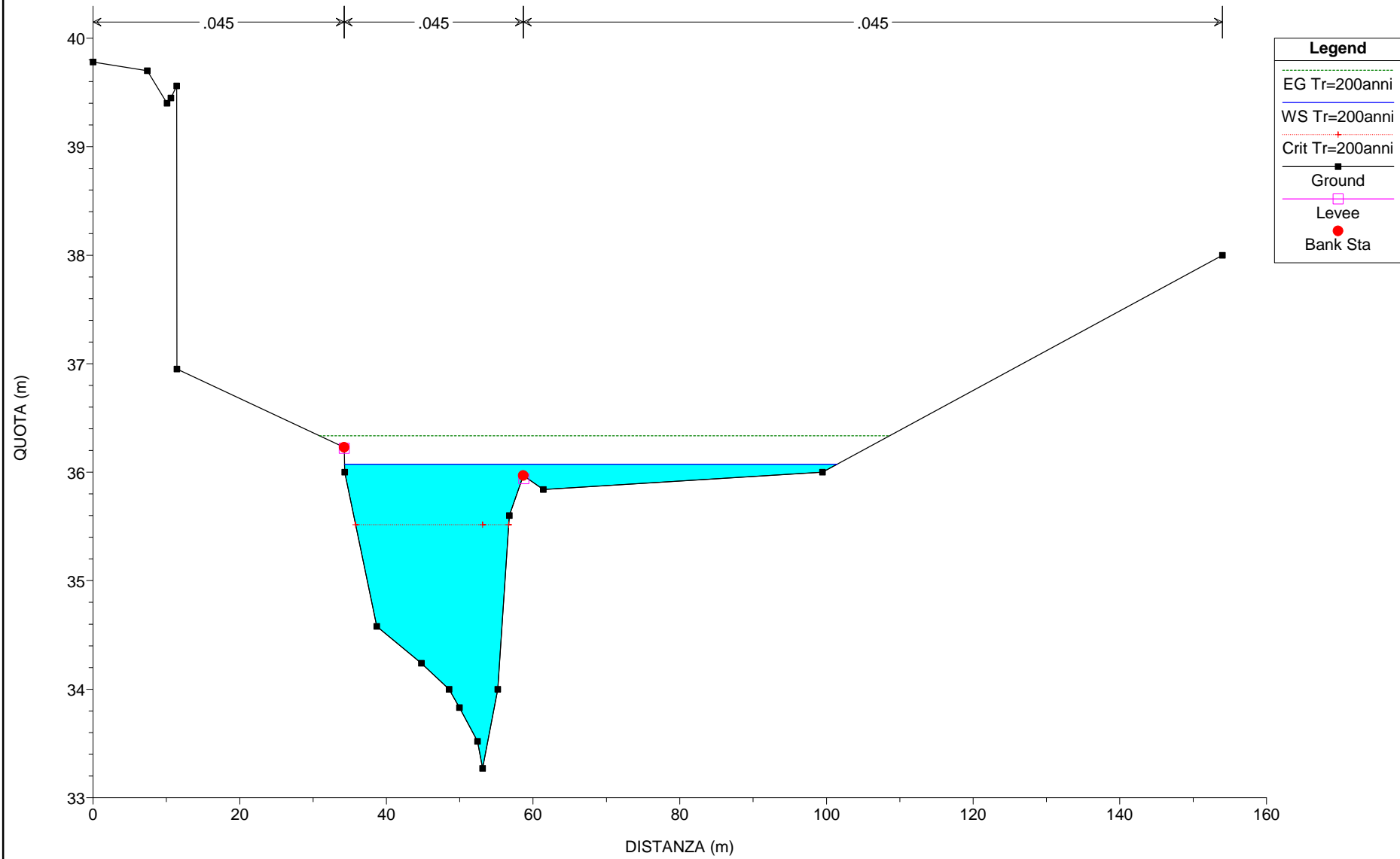
River = Torrente Salvia Reach = SP46 RS = 16
ANTE OPERA



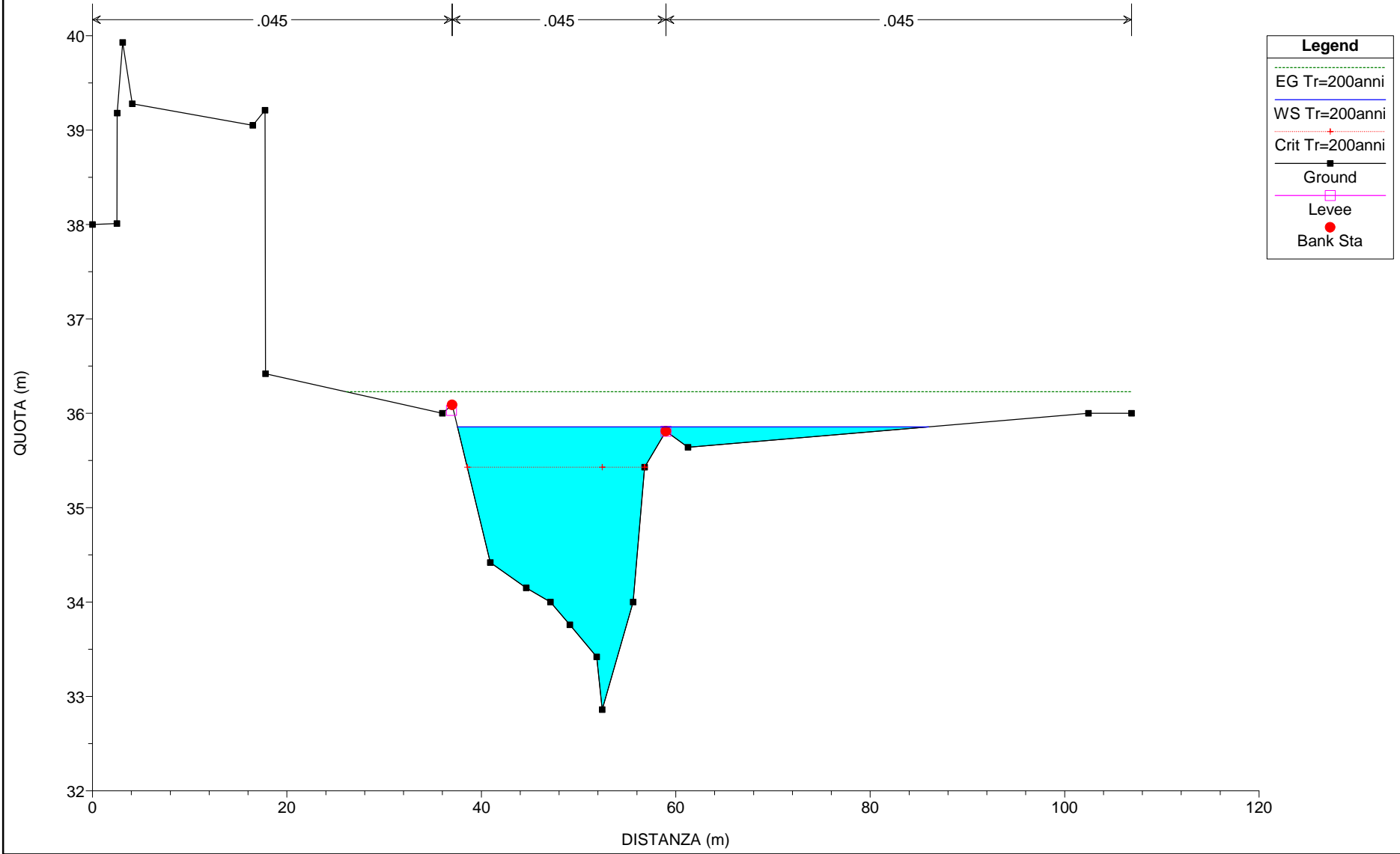
River = Torrente Salvia Reach = SP46 RS = 15
ANTE OPERA



River = Torrente Salvia Reach = SP46 RS = 14
ANTE OPERA



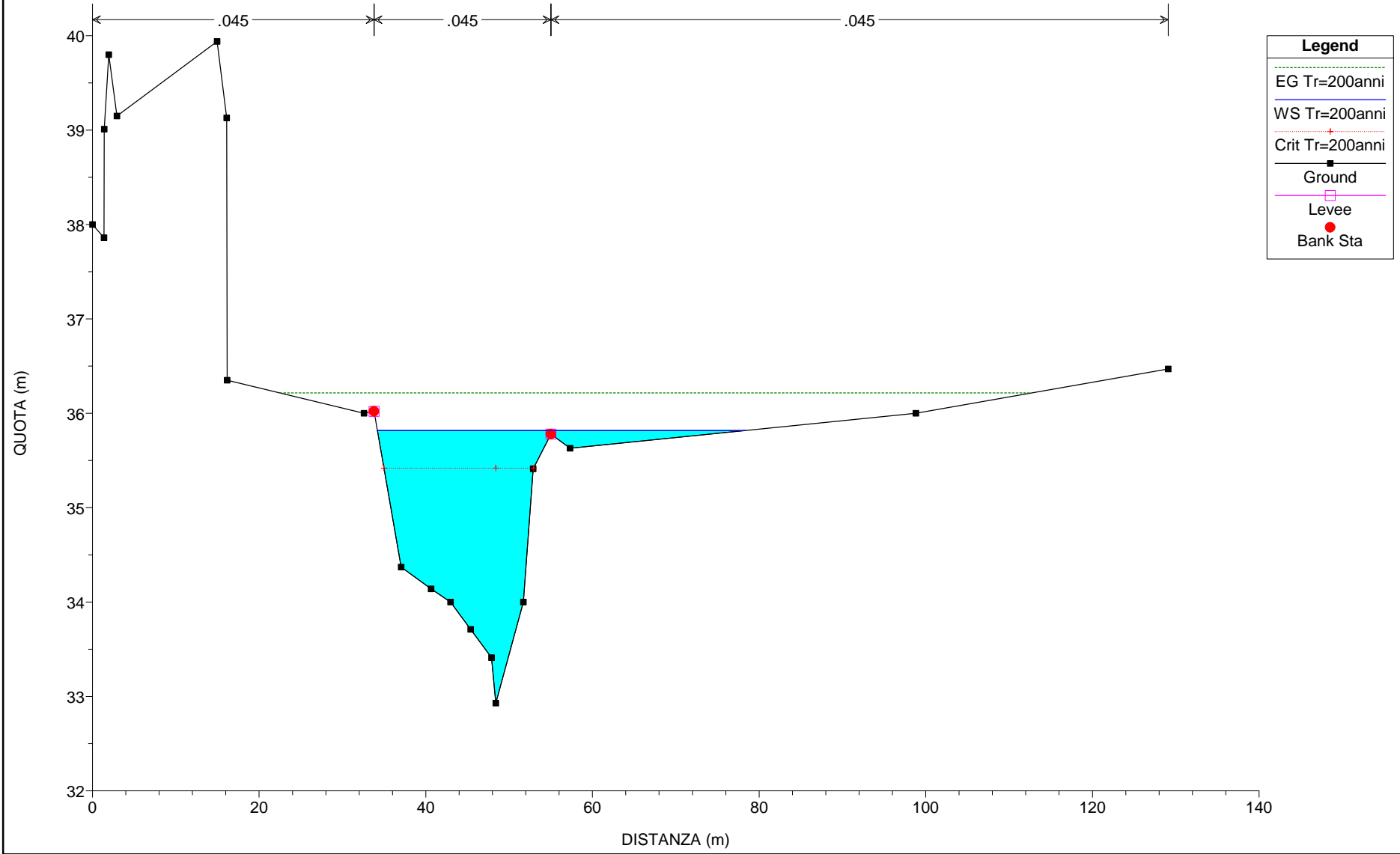
River = Torrente Salvia Reach = SP46 RS = 13
ANTE OPERA



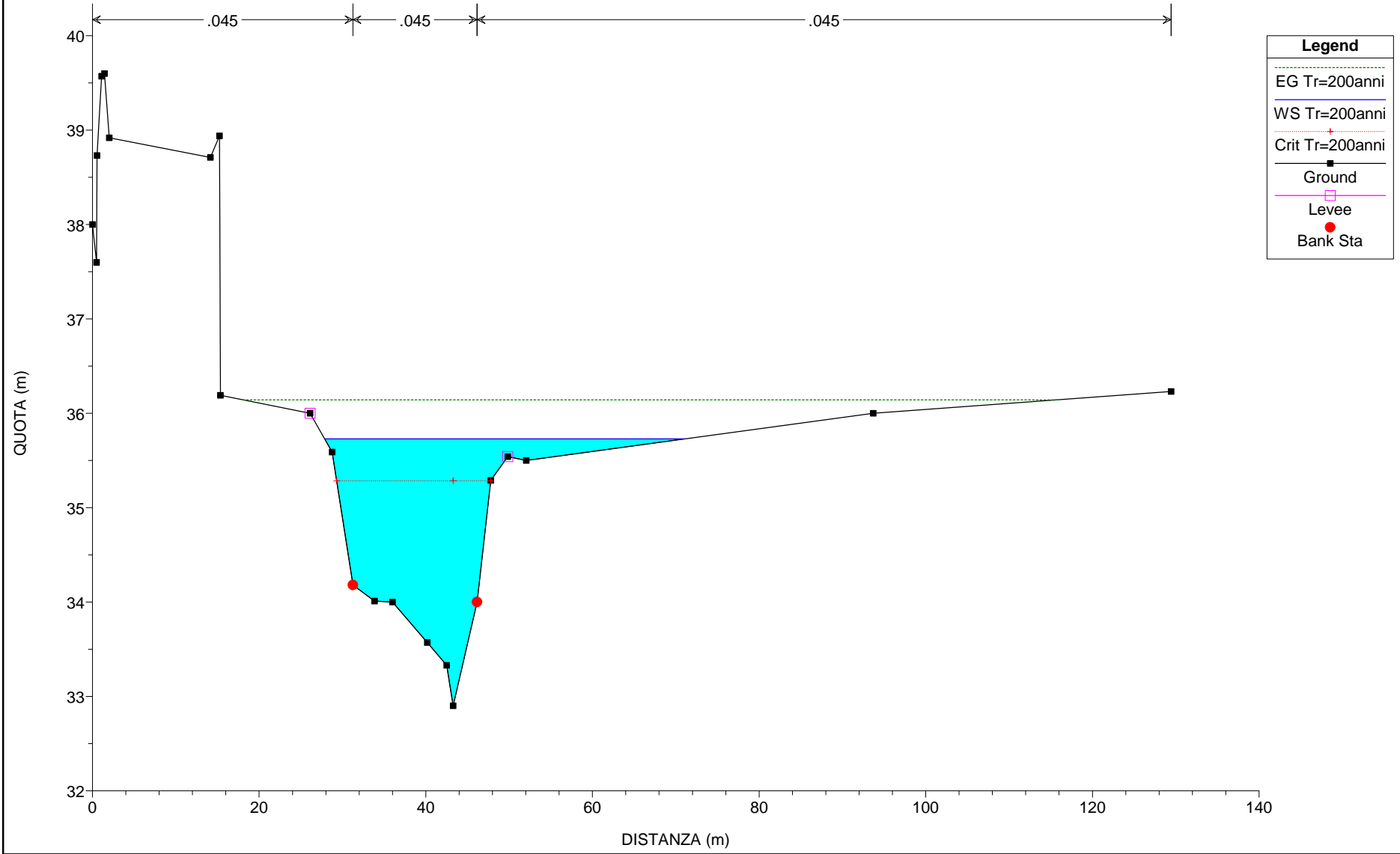
Legend

- EG Tr=200anni
- WS Tr=200anni
- Crit Tr=200anni
- Ground
- Levee
- Bank Sta

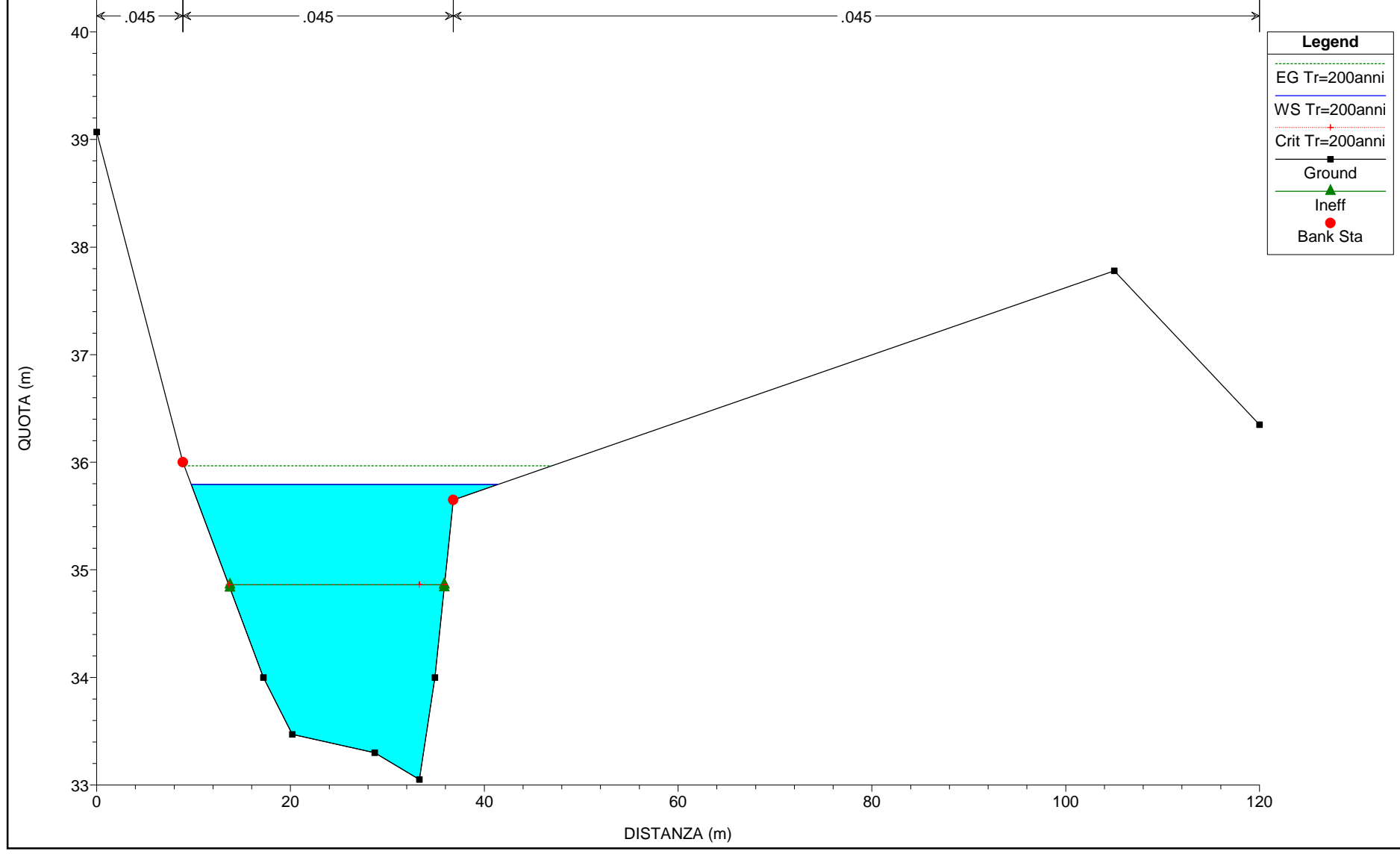
River = Torrente Salvia Reach = SP46 RS = 12
ANTE OPERA



River = Torrente Salvia Reach = SP46 RS = 11
ANTE OPERA



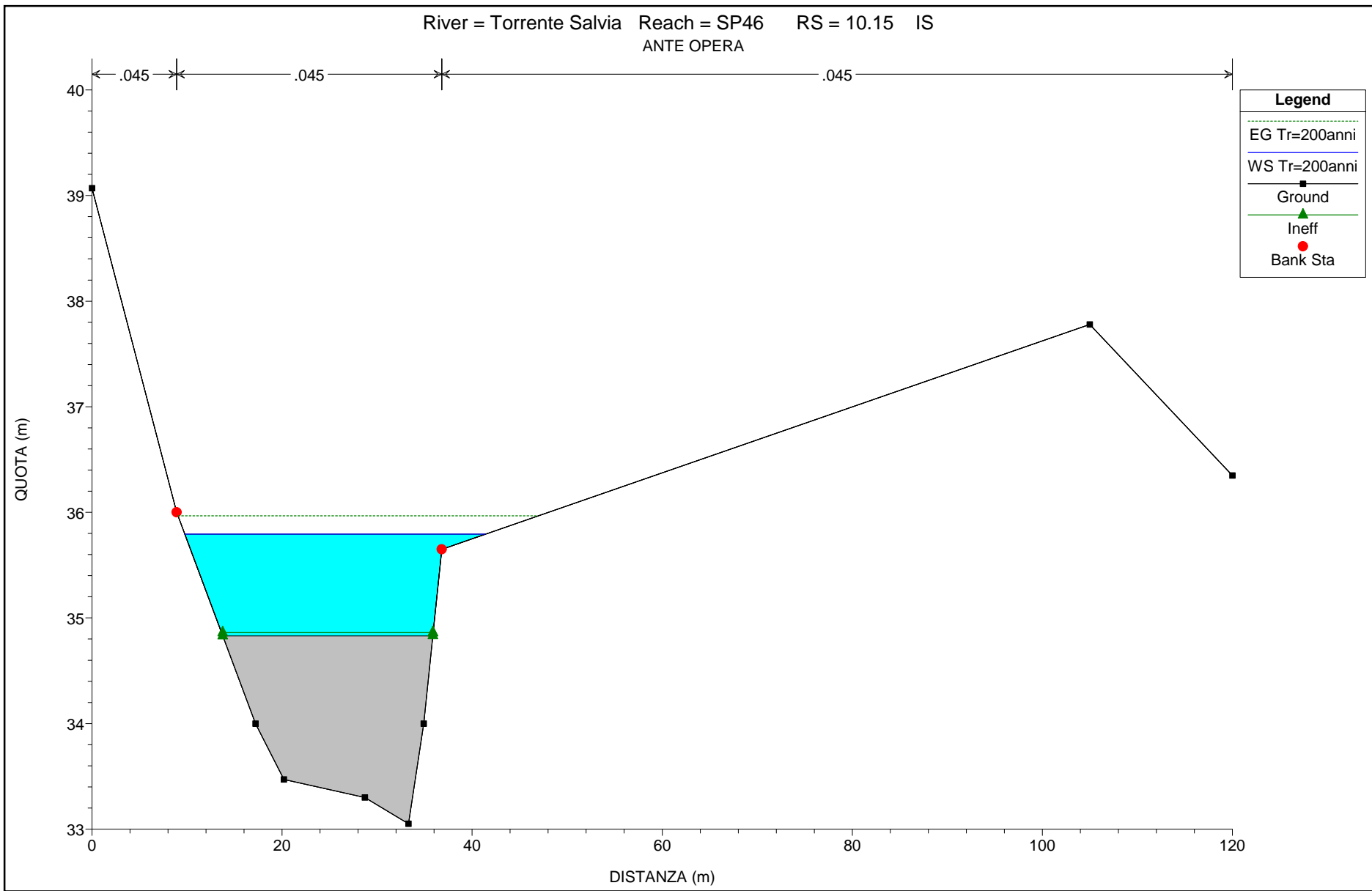
River = Torrente Salvia Reach = SP46 RS = 10.2
ANTE OPERA



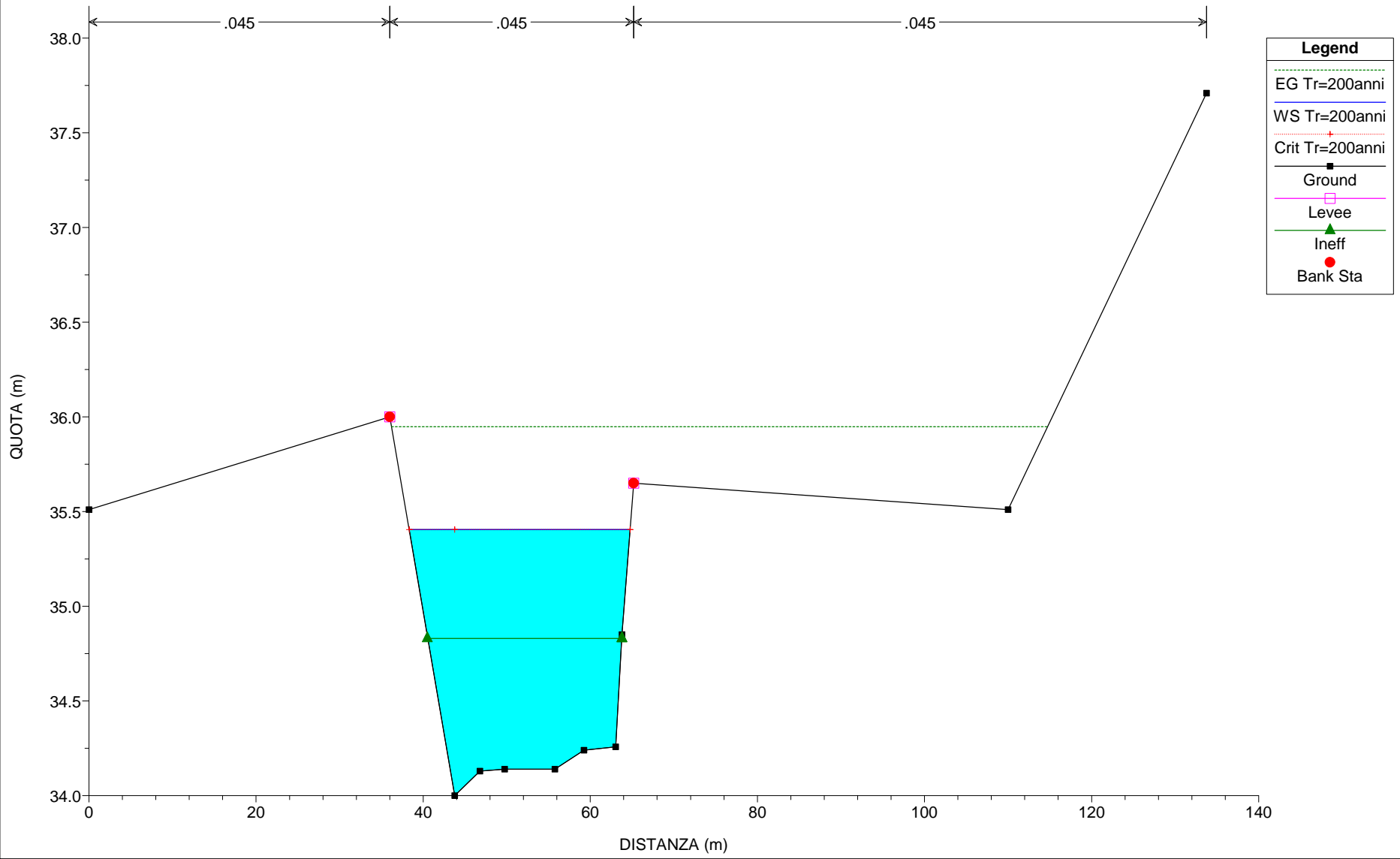
Legend

- EG Tr=200anni
- WS Tr=200anni
- Crit Tr=200anni
- Ground
- Ineff
- Bank Sta

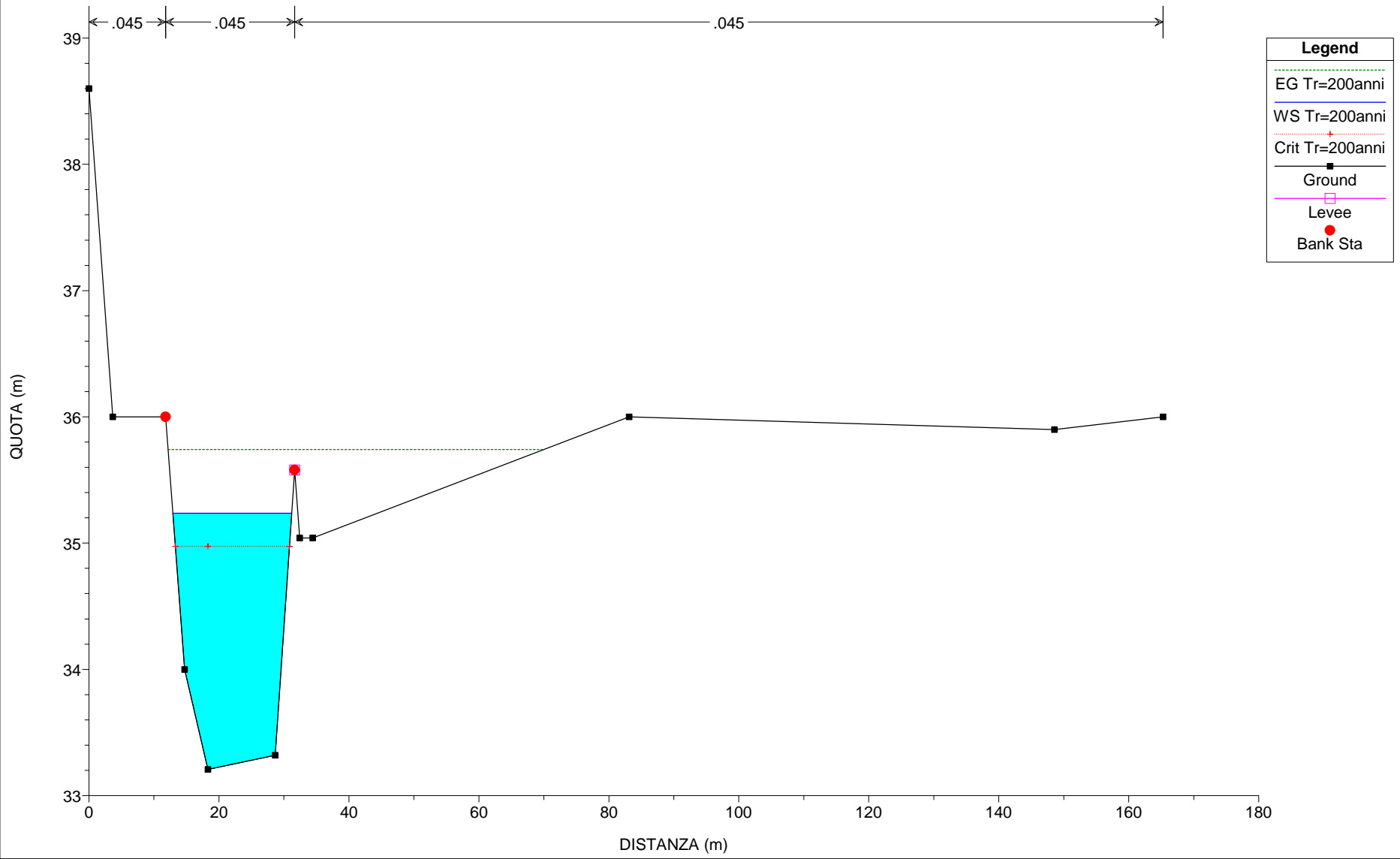
River = Torrente Salvia Reach = SP46 RS = 10.15 IS ANTE OPERA



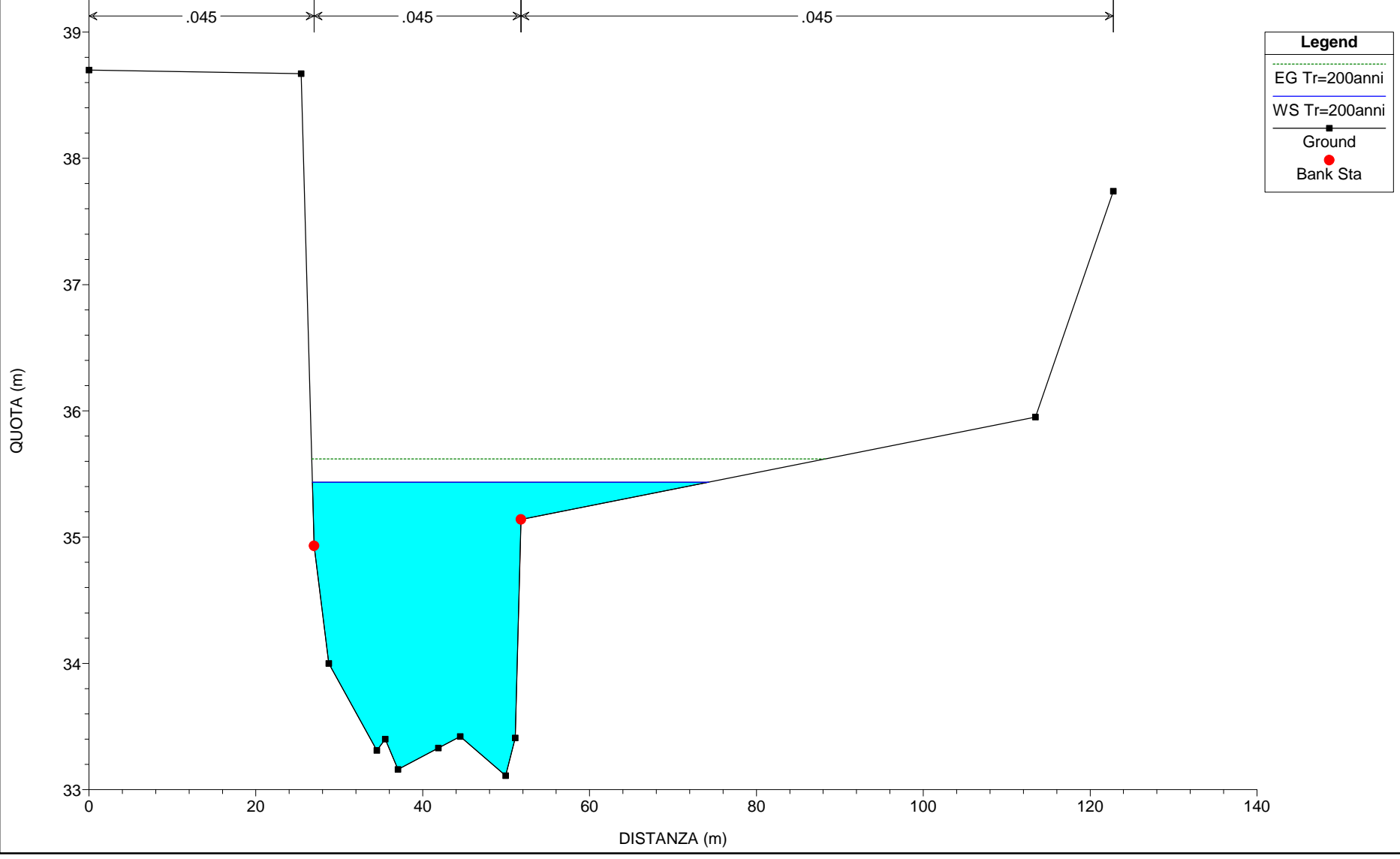
River = Torrente Salvia Reach = SP46 RS = 10.1
ANTE OPERA



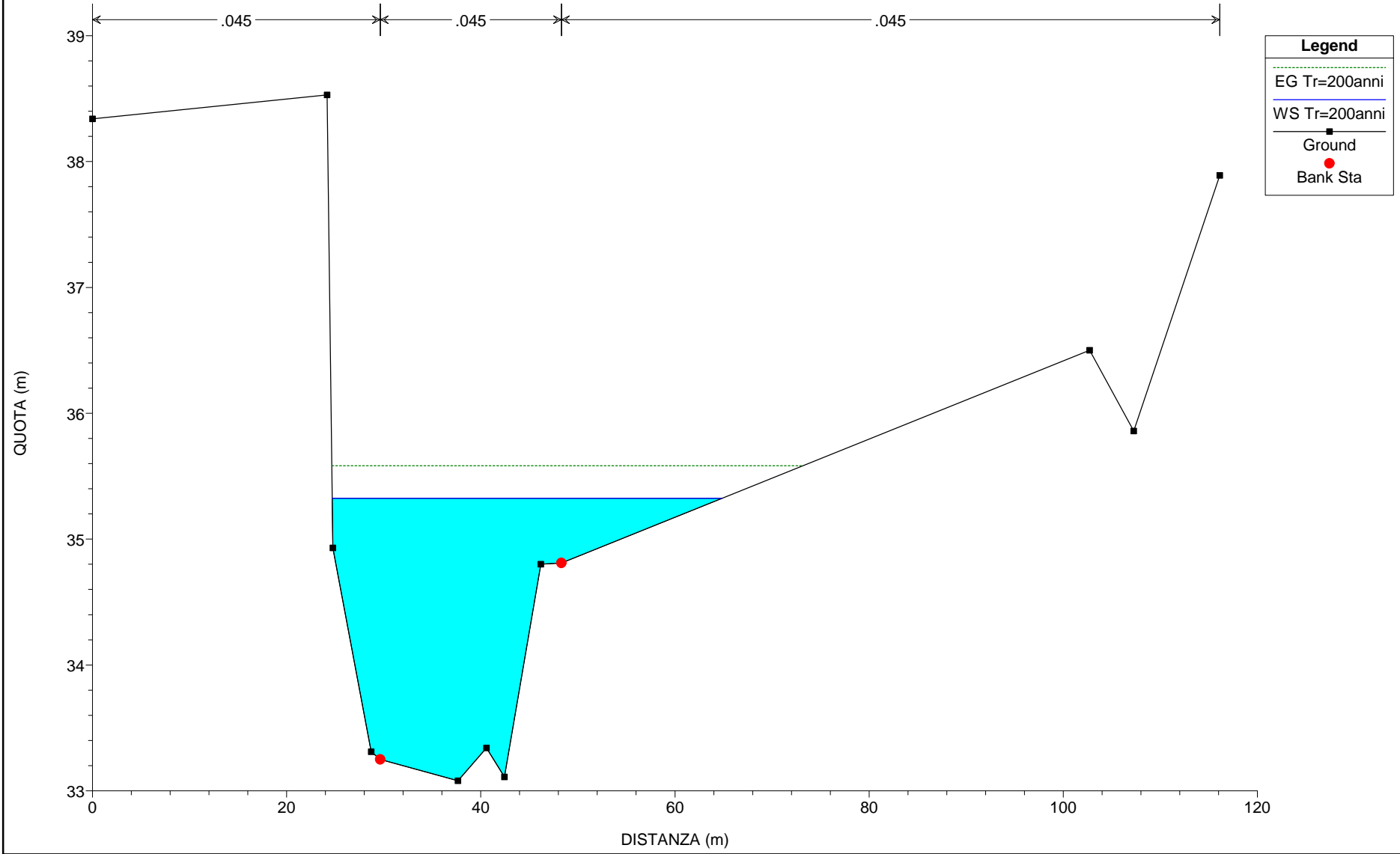
River = Torrente Salvia Reach = SP46 RS = 10.05
ANTE OPERA



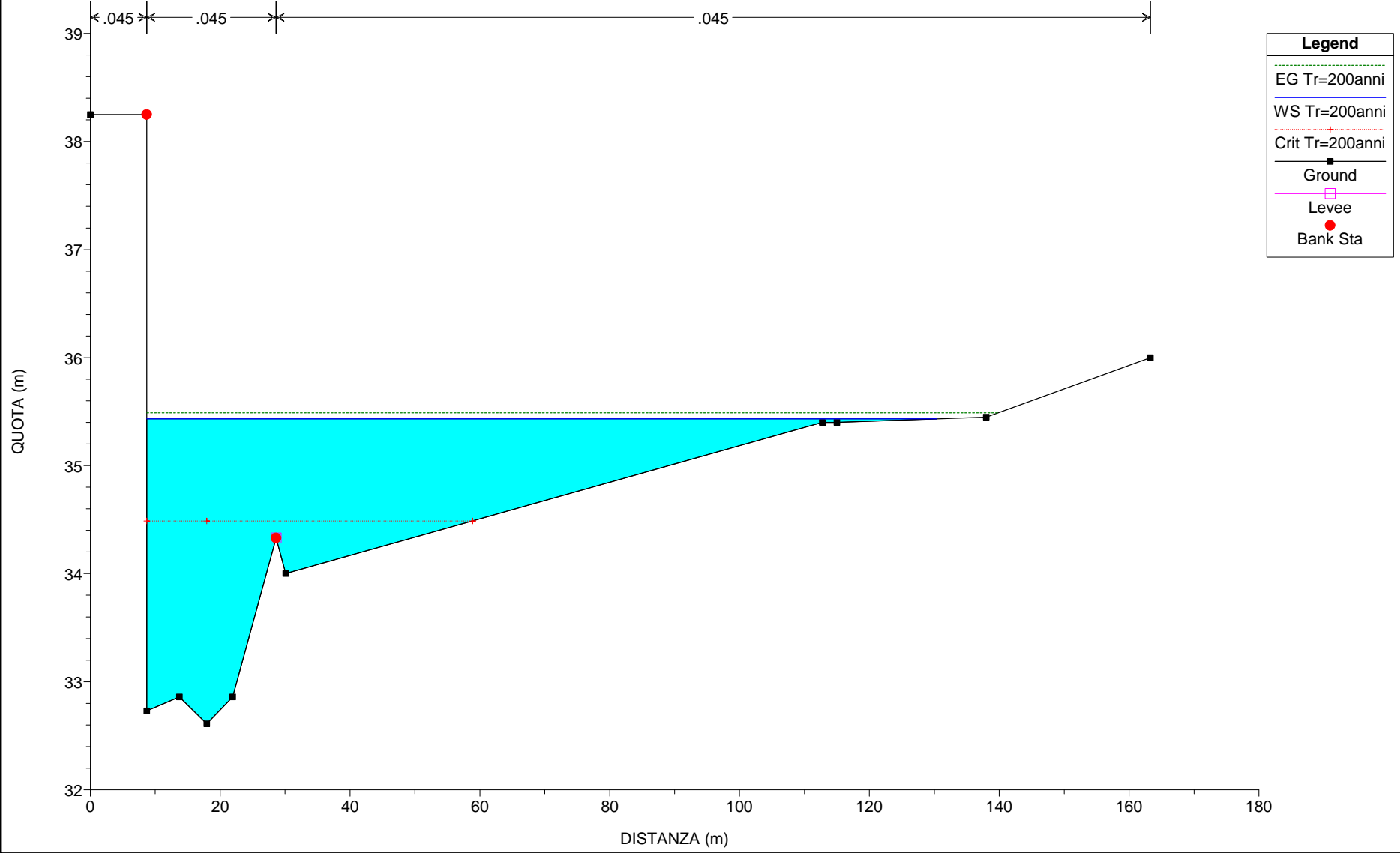
River = Torrente Salvia Reach = SP46 RS = 10
ANTE OPERA



River = Torrente Salvia Reach = SP46 RS = 9
ANTE OPERA

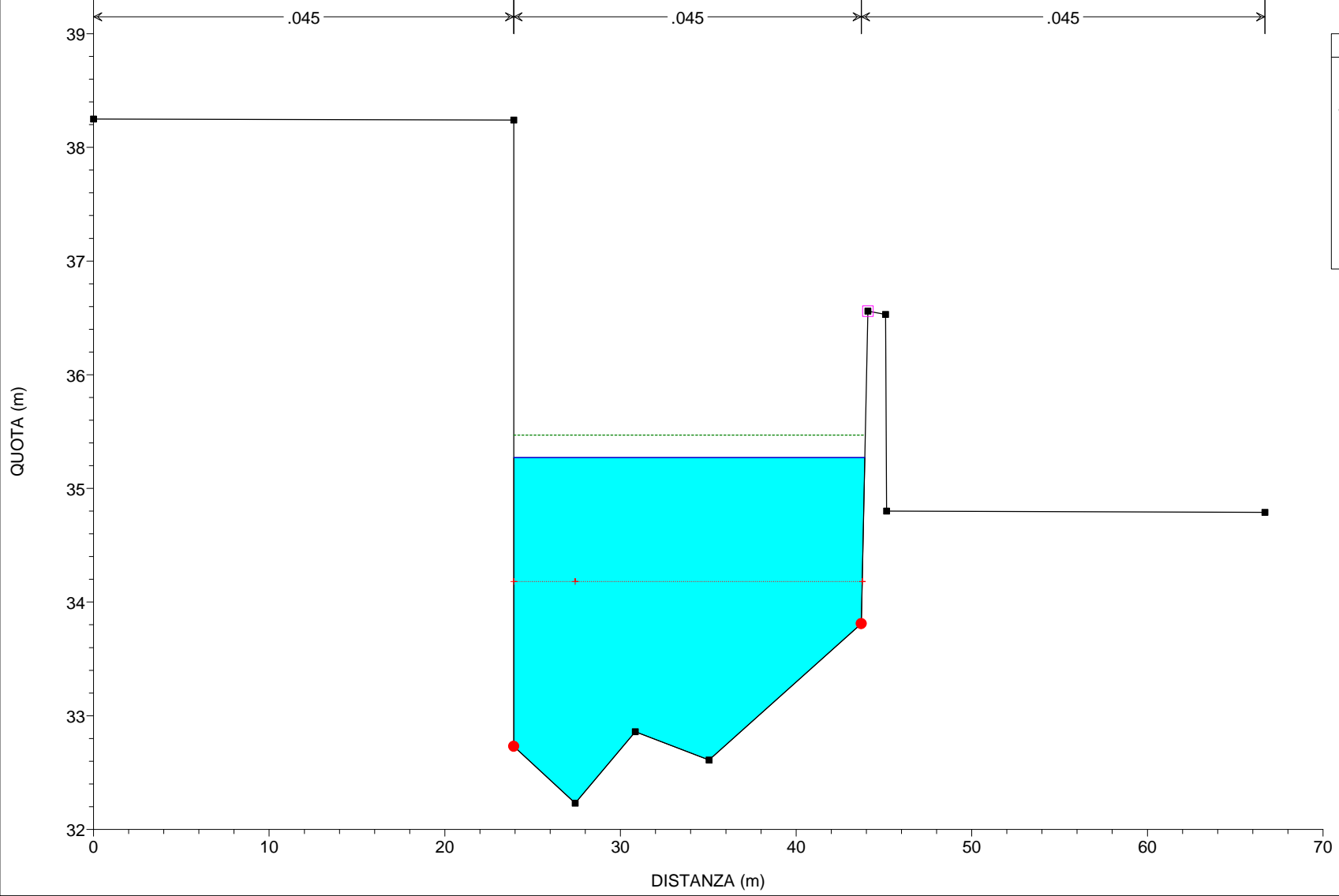


River = Torrente Salvia Reach = SP46 RS = 8
ANTE OPERA



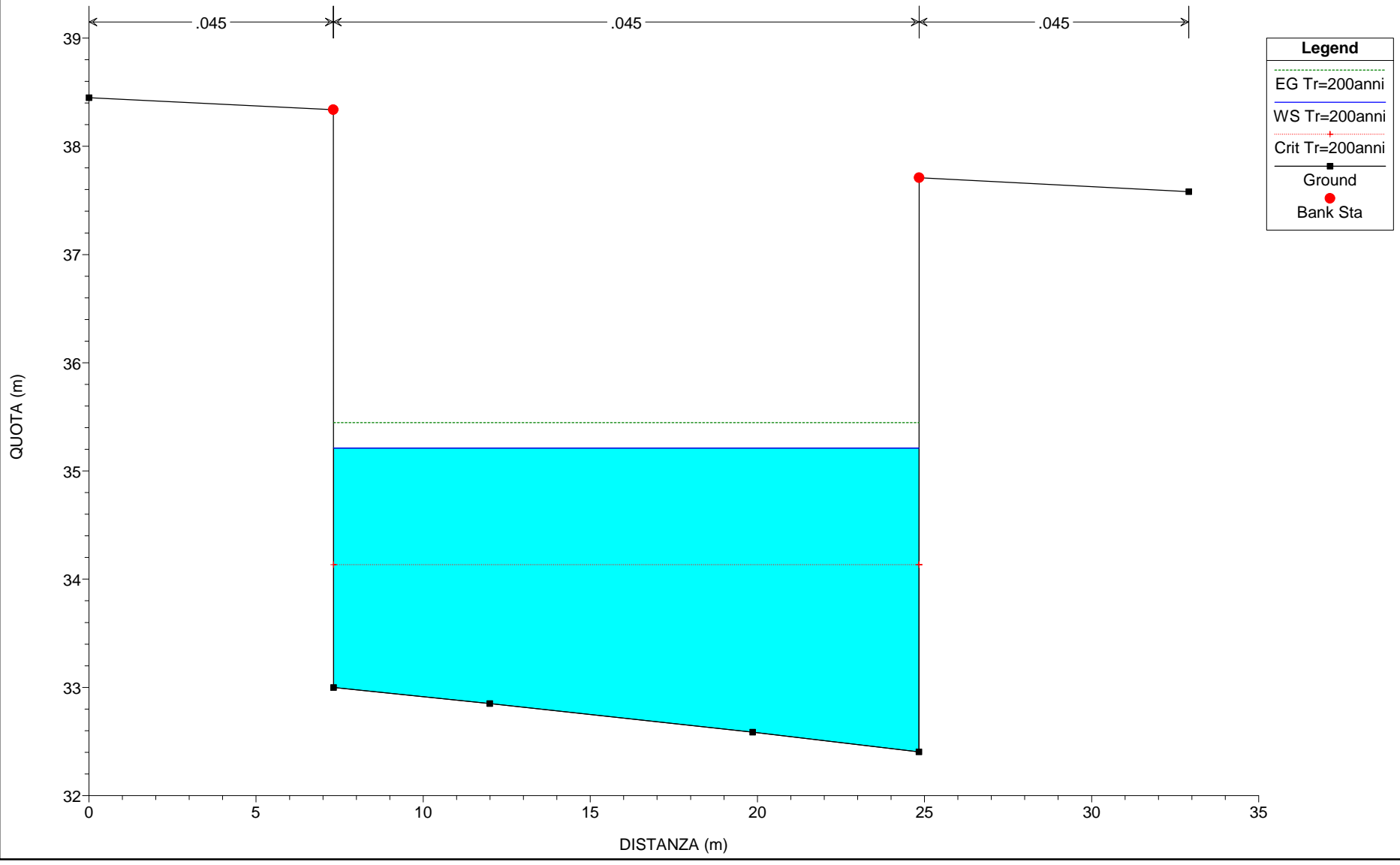
Legend	
EG Tr=200anni	(Dotted green line)
WS Tr=200anni	(Solid blue line)
Crit Tr=200anni	(Dotted red line with cross)
Ground	(Solid black line with square)
Levee	(Magenta line with square)
Bank Sta	(Red dot)

River = Torrente Salvia Reach = SP46 RS = 7.99
ANTE OPERA



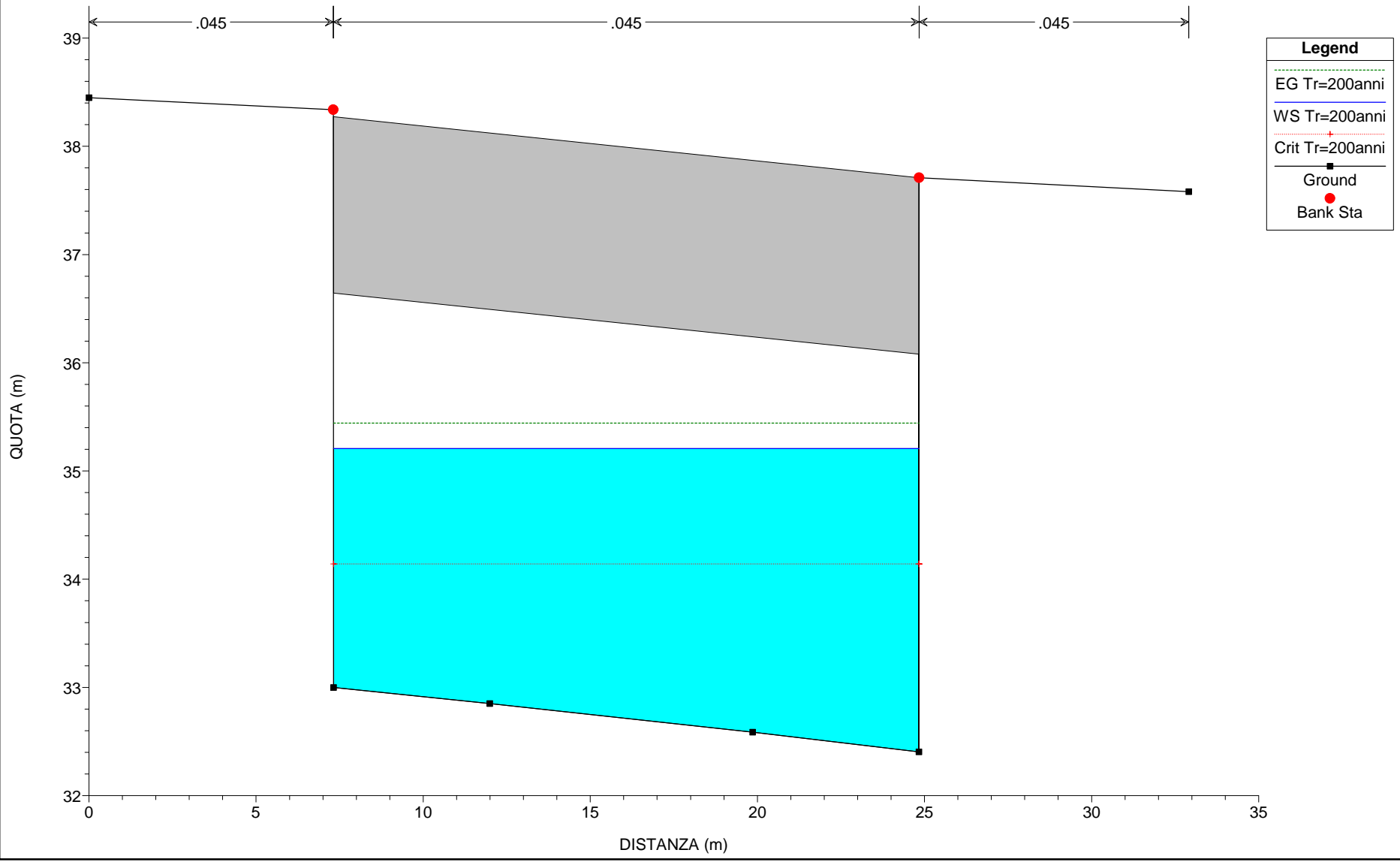
Legend	
EG Tr=200anni	— (dotted green line)
WS Tr=200anni	— (solid blue line)
Crit Tr=200anni	— (dotted red line with cross)
Ground	— (solid black line with square)
Levee	— (solid pink line with square)
Bank Sta	• (solid red dot)

River = Torrente Salvia Reach = SP46 RS = 7.98
ANTE OPERA

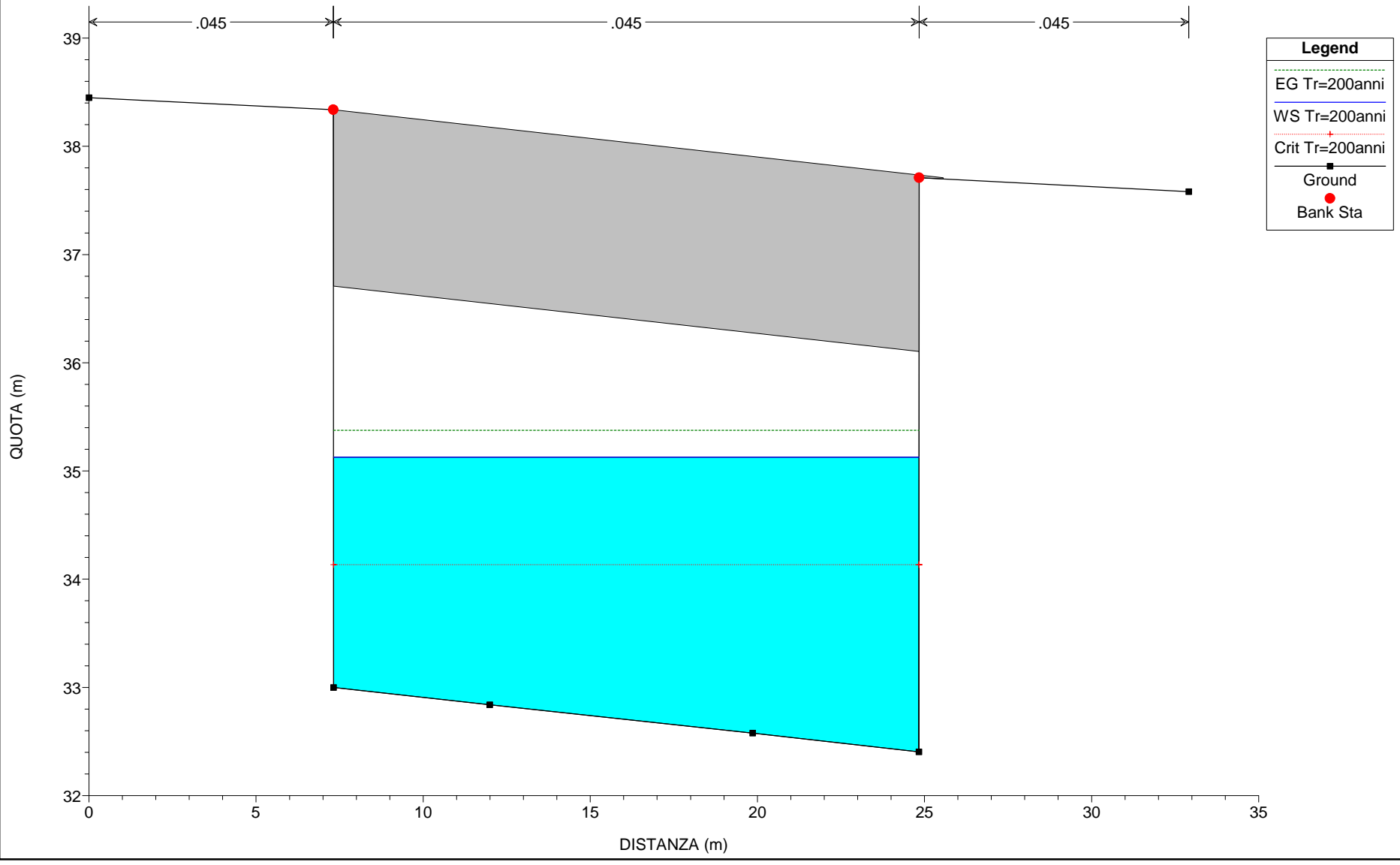


- Legend**
- EG Tr=200anni
 - WS Tr=200anni
 - Crit Tr=200anni
 - Ground
 - Bank Sta

River = Torrente Salvia Reach = SP46 RS = 7.975 BR
ANTE OPERA

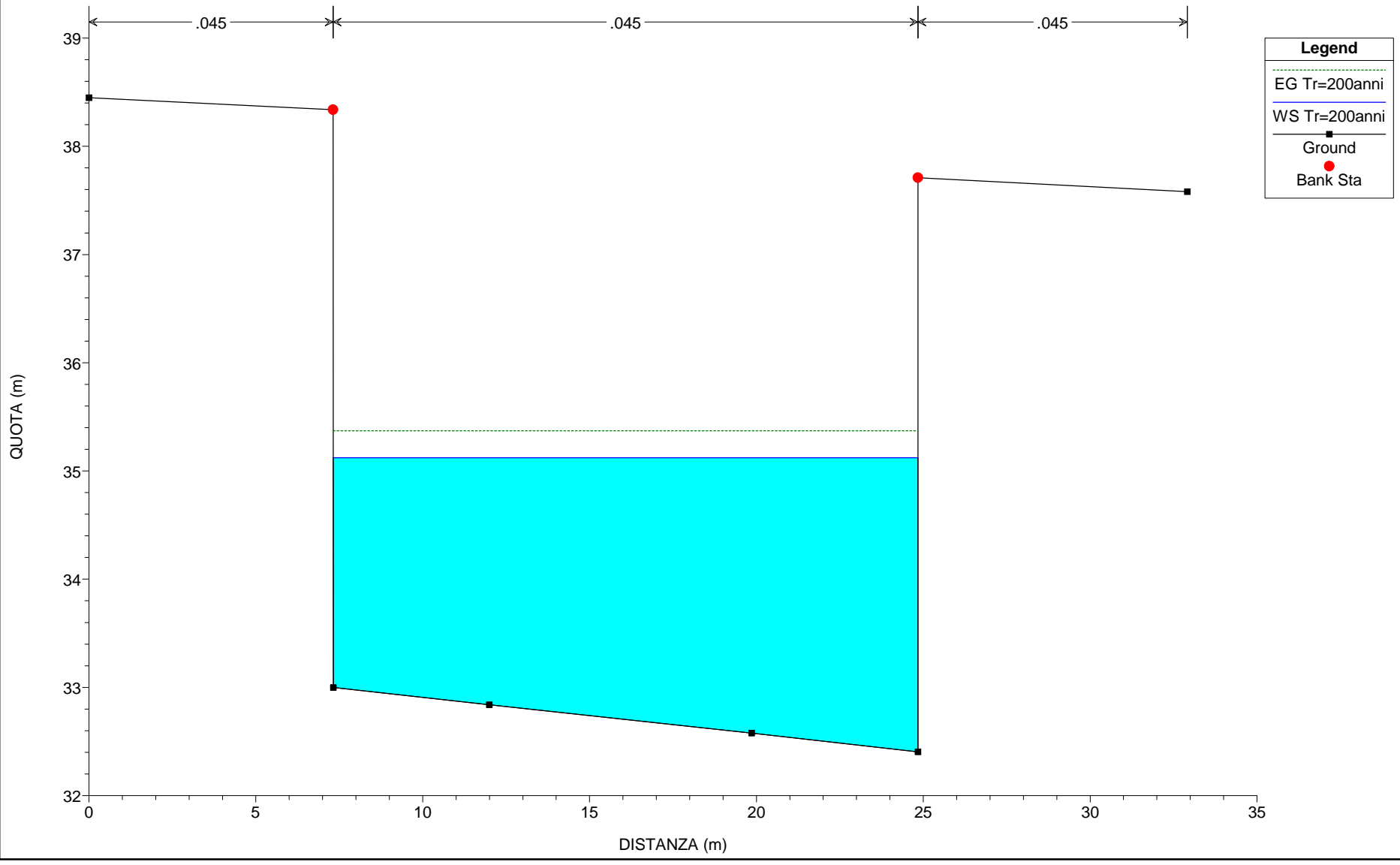


River = Torrente Salvia Reach = SP46 RS = 7.975 BR
ANTE OPERA



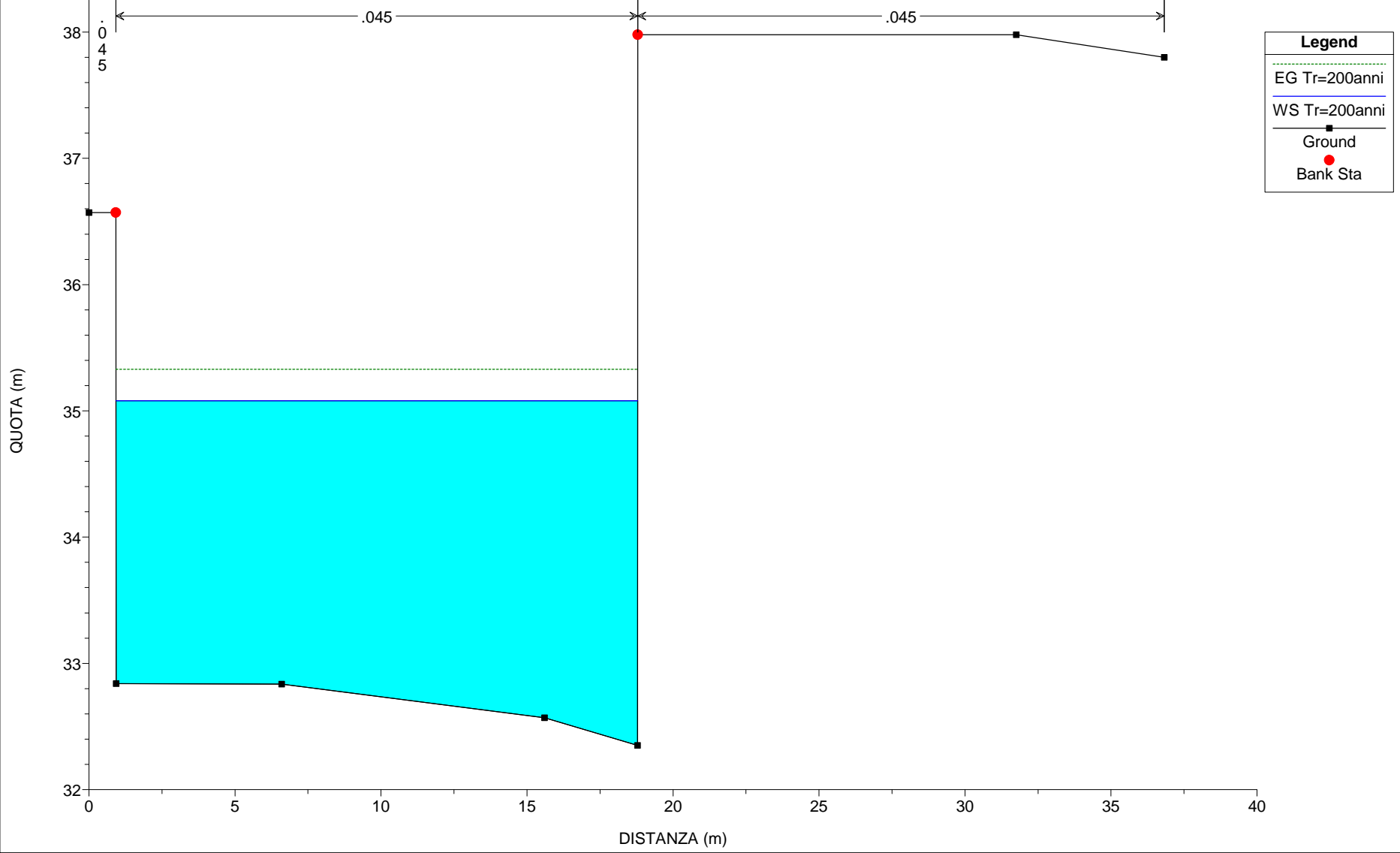
- Legend**
- EG Tr=200anni
 - WS Tr=200anni
 - Crit Tr=200anni
 - Ground
 - Bank Sta

River = Torrente Salvia Reach = SP46 RS = 7.97
ANTE OPERA



Legend
EG Tr=200anni
WS Tr=200anni
Ground
Bank Sta

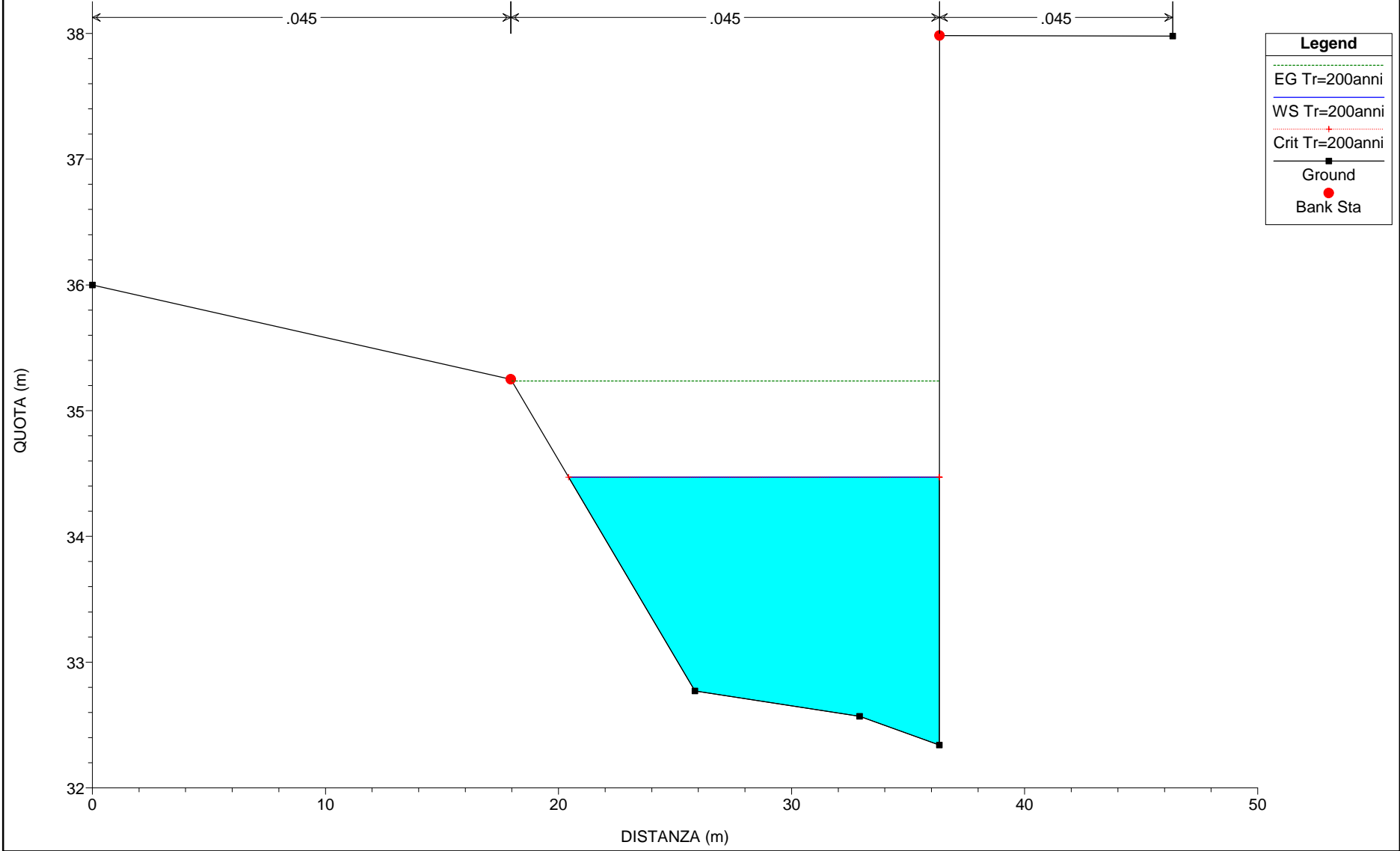
River = Torrente Salvia Reach = SP46 RS = 7.96
ANTE OPERA



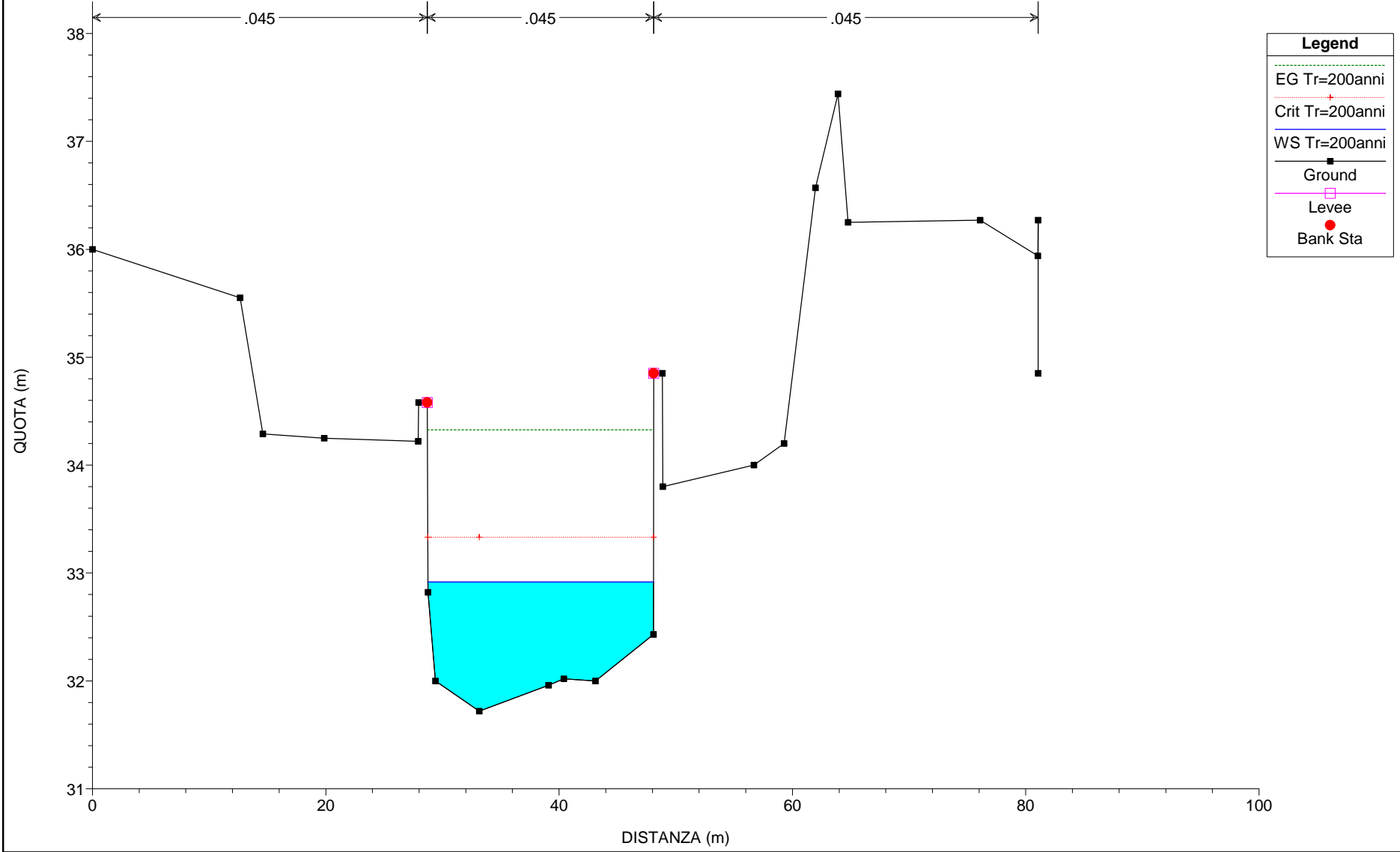
Legend

- EG Tr=200anni
- WS Tr=200anni
- Ground
- Bank Sta

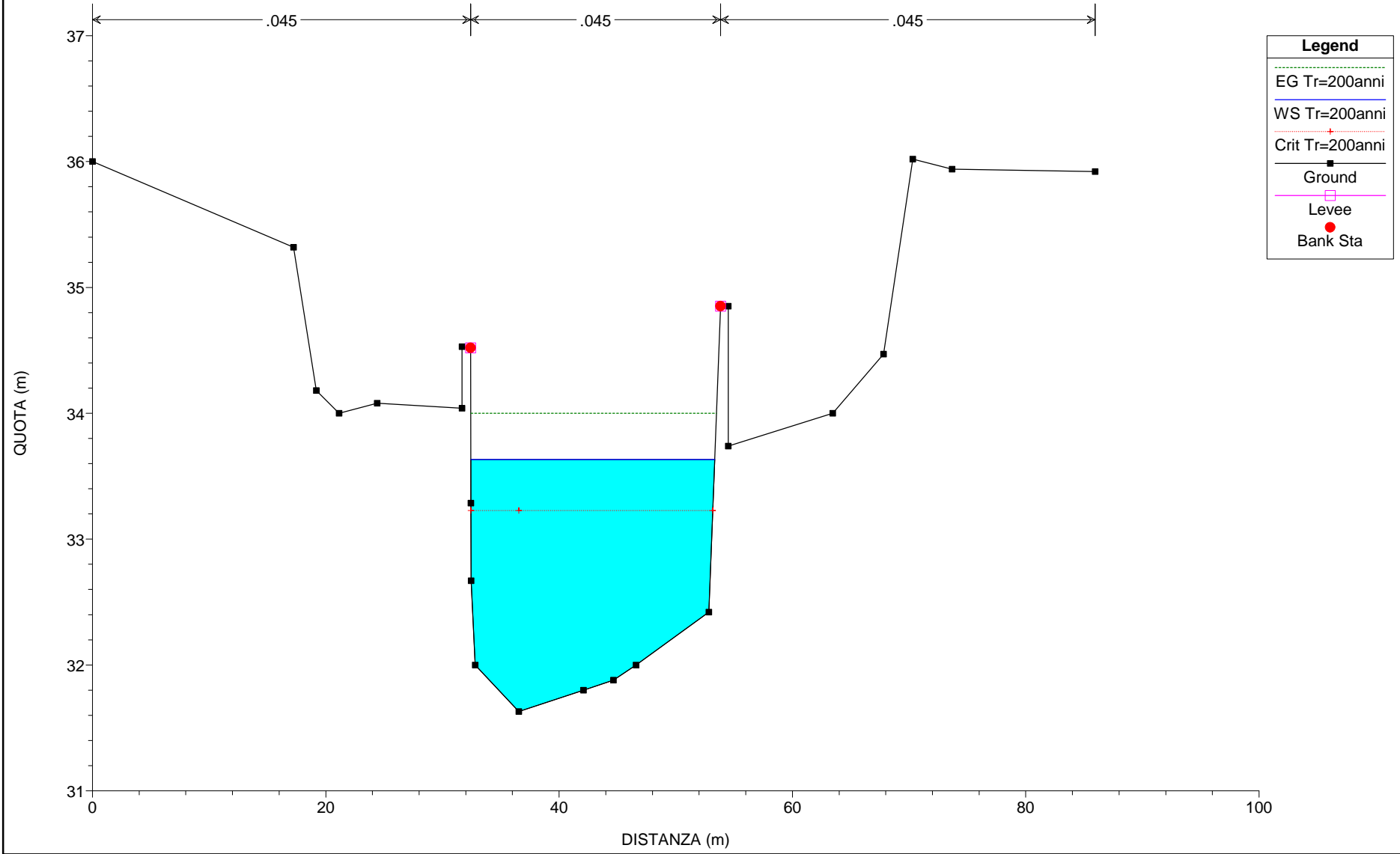
River = Torrente Salvia Reach = SP46 RS = 7
ANTE OPERA



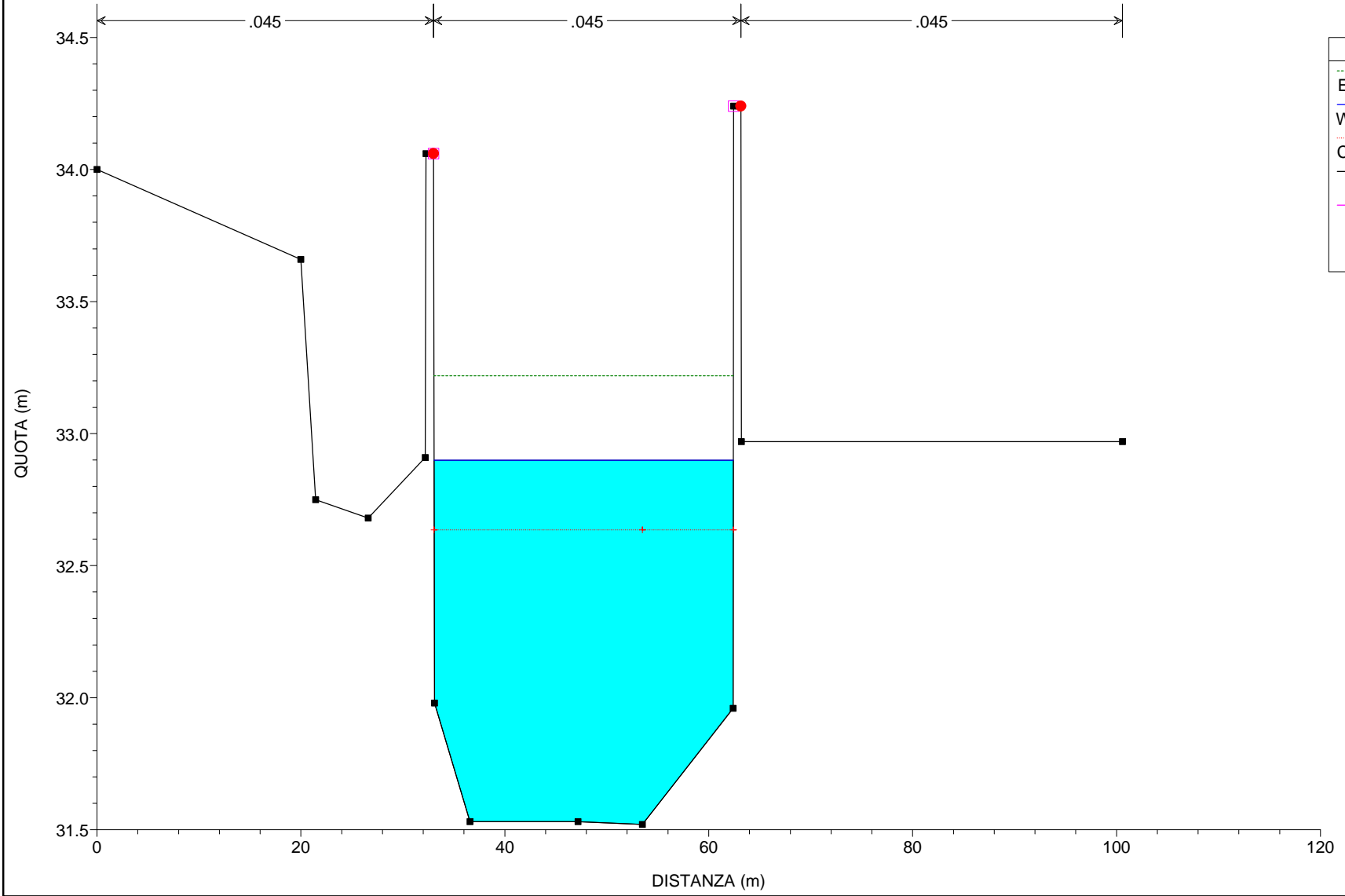
River = Torrente Salvia Reach = SP46 RS = 6
ANTE OPERA



River = Torrente Salvia Reach = SP46 RS = 5
ANTE OPERA

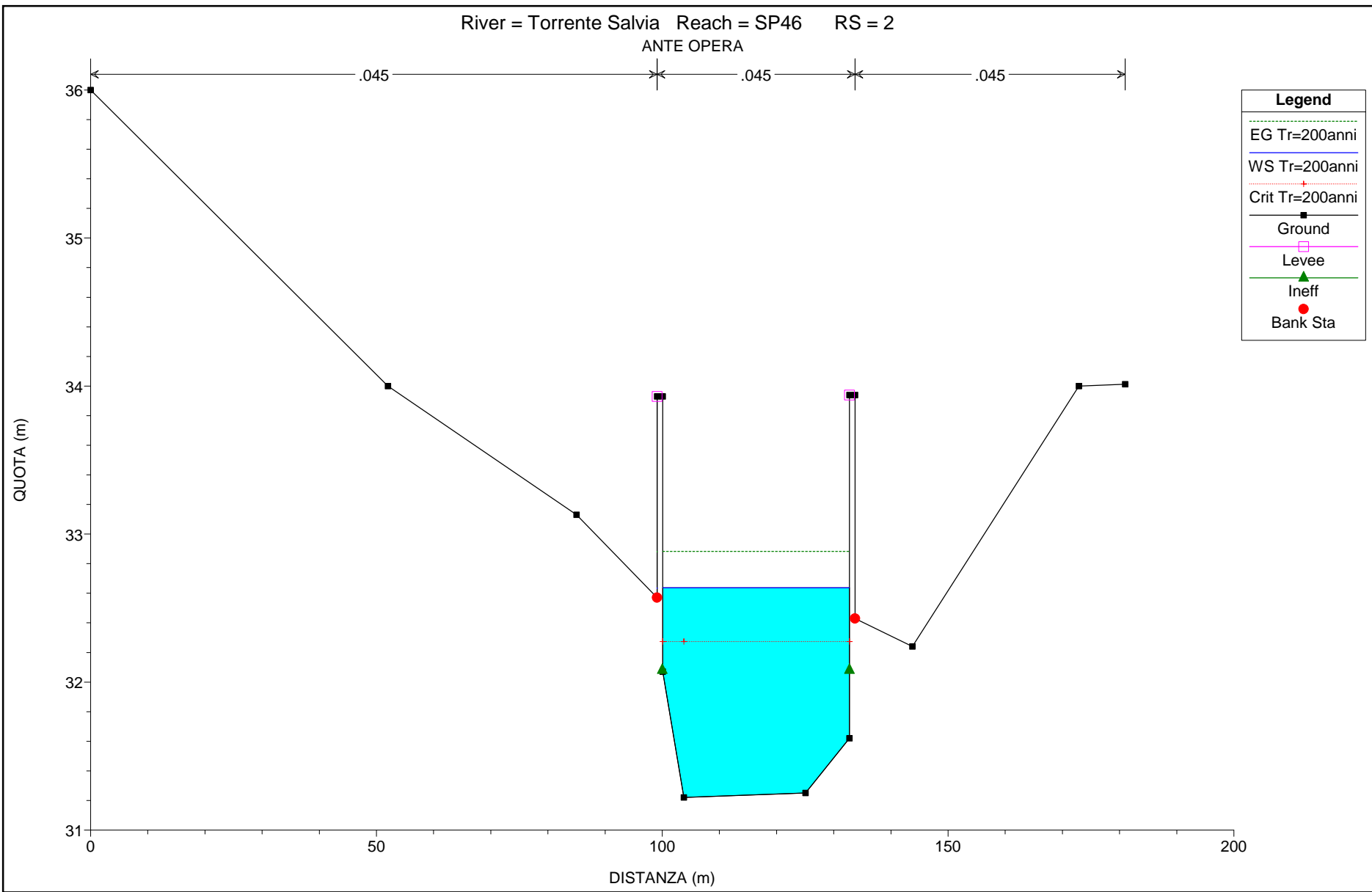


River = Torrente Salvia Reach = SP46 RS = 3
ANTE OPERA

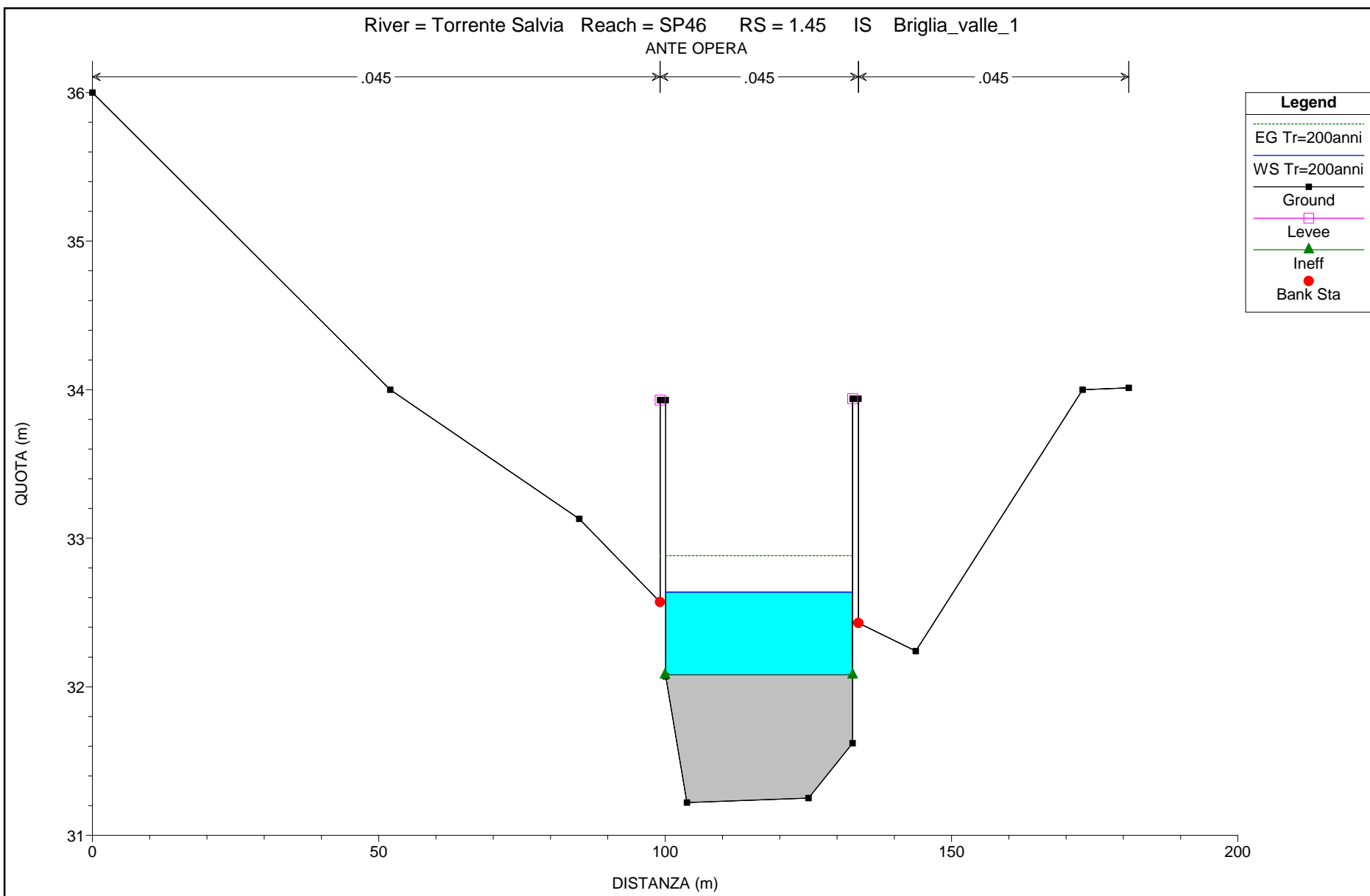


Legend	
EG Tr=200anni	(Green dashed line)
WS Tr=200anni	(Blue solid line)
Crit Tr=200anni	(Red dotted line with cross)
Ground	(Black solid line with square)
Levee	(Magenta solid line with square)
Bank Sta	(Red solid line with circle)

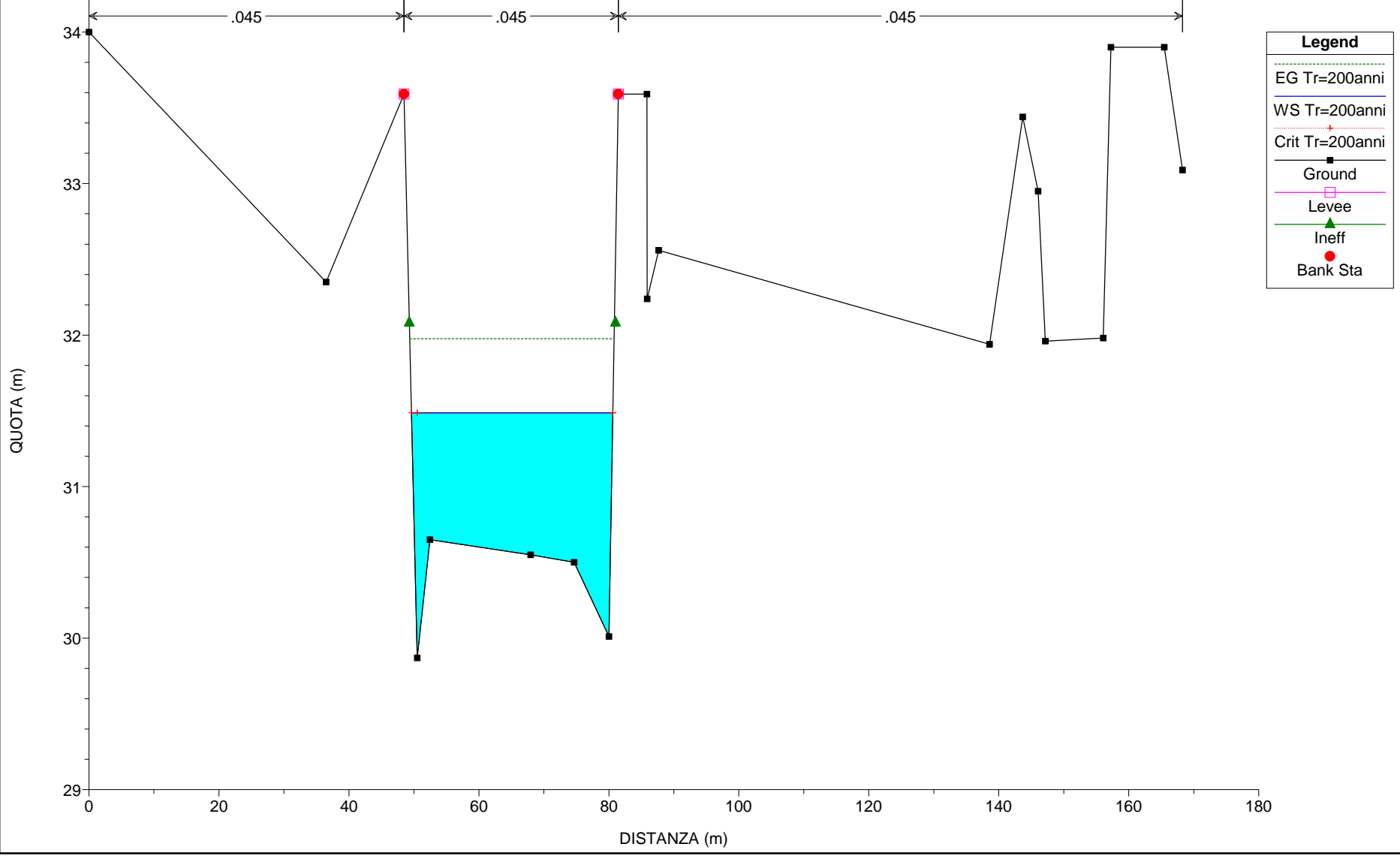
River = Torrente Salvia Reach = SP46 RS = 2
ANTE OPERA



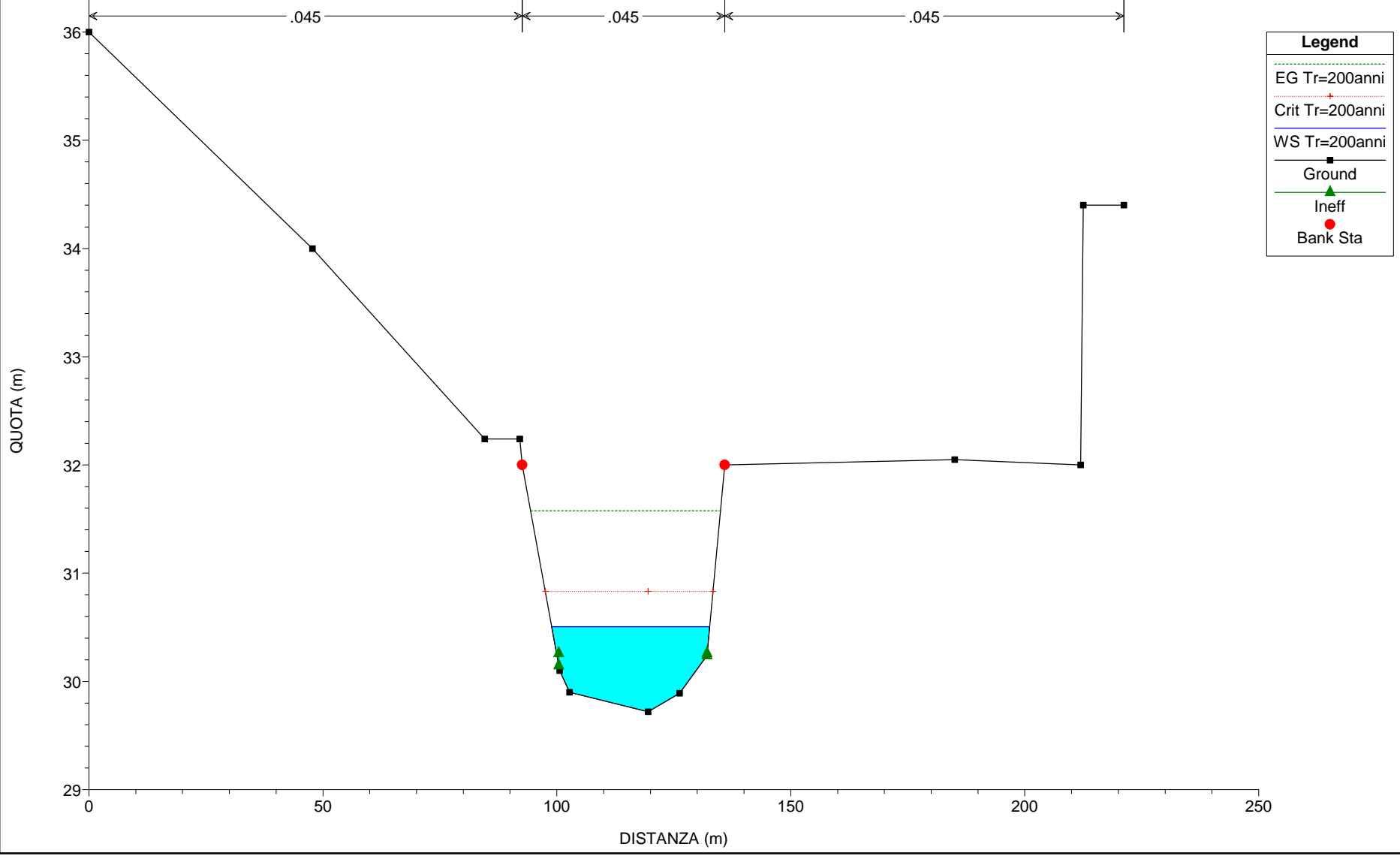
River = Torrente Salvia Reach = SP46 RS = 1.45 IS Briglia_valle_1
ANTE OPERA



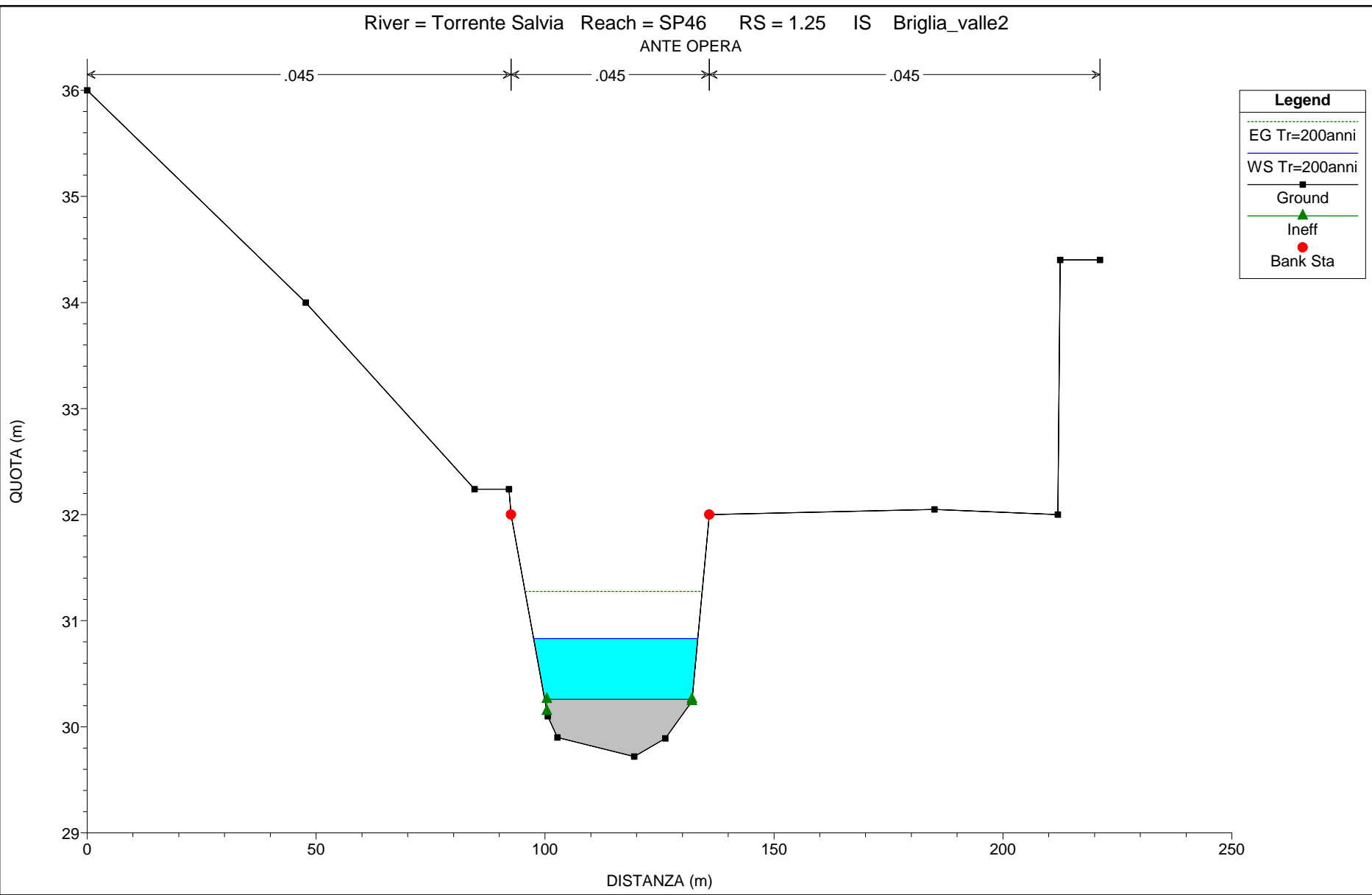
River = Torrente Salvia Reach = SP46 RS = 1.4
ANTE OPERA



River = Torrente Salvia Reach = SP46 RS = 1.3
ANTE OPERA

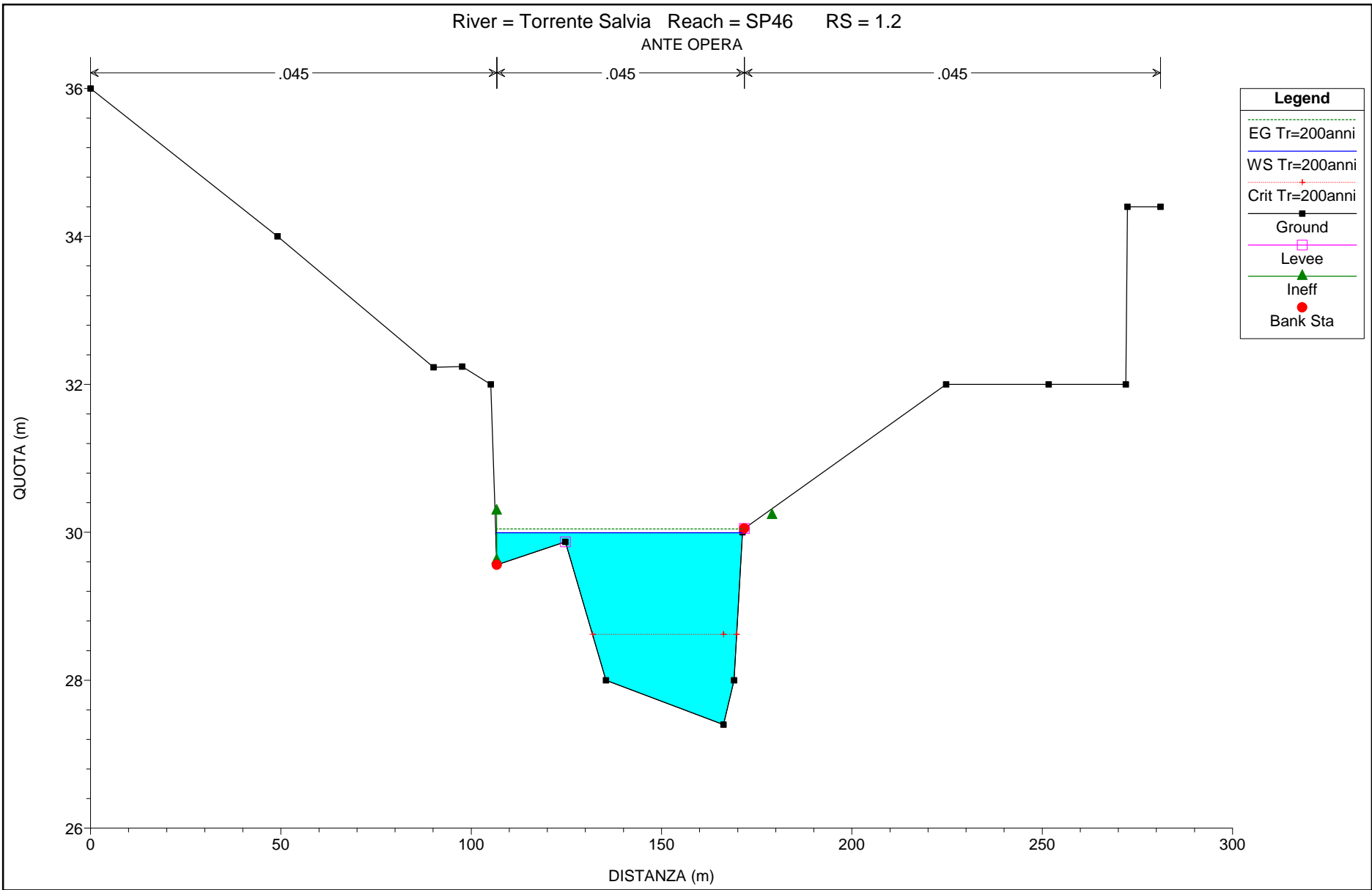


River = Torrente Salvia Reach = SP46 RS = 1.25 IS Briglia_valle2
ANTE OPERA

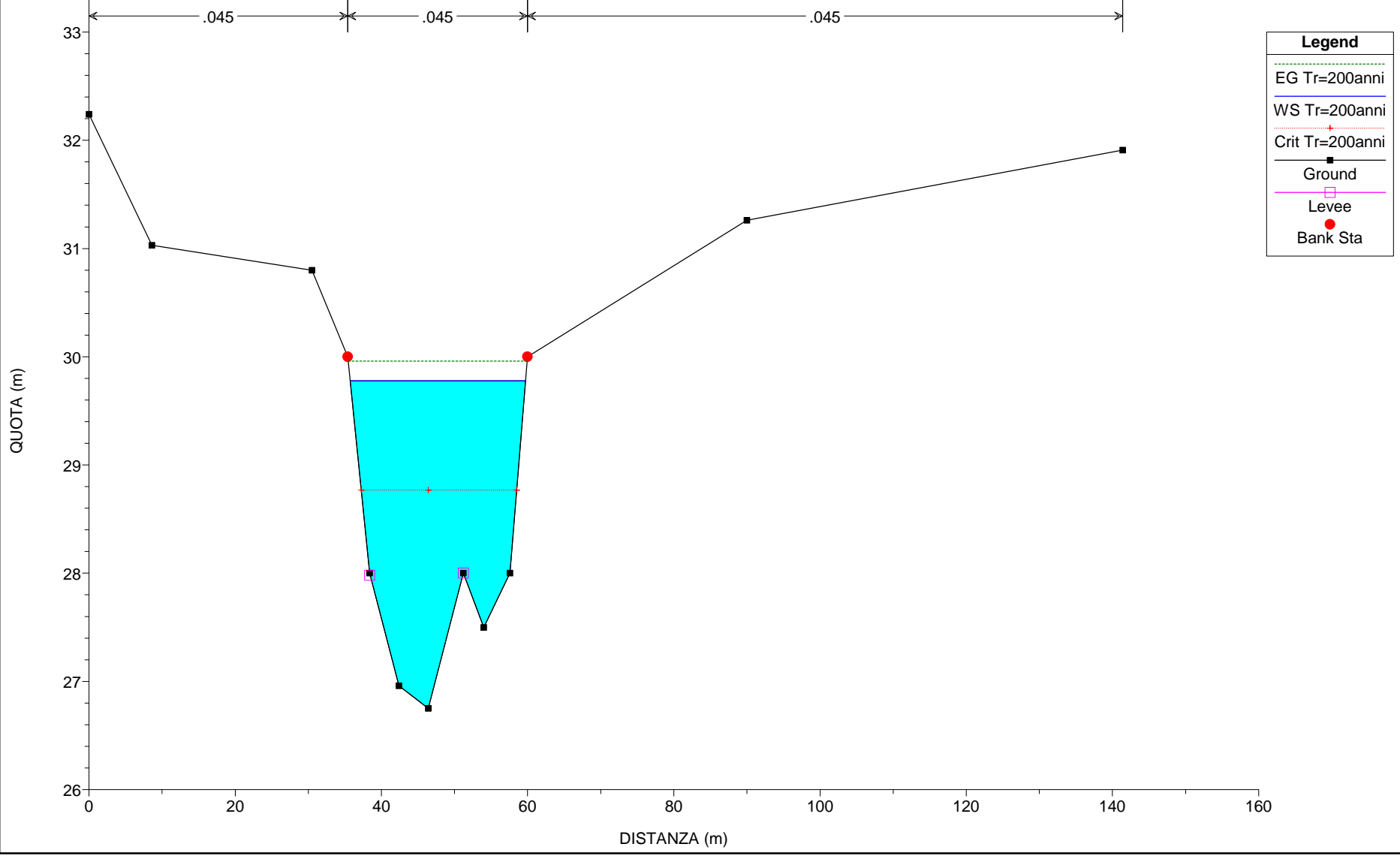


Legend	
EG Tr=200anni	(dashed green line)
WS Tr=200anni	(solid blue line)
Ground	(solid black line with square markers)
Ineff	(green line with triangle markers)
Bank Sta	(red dot)

River = Torrente Salvia Reach = SP46 RS = 1.2
ANTE OPERA



River = Torrente Salvia Reach = SP46 RS = 1.1
ANTE OPERA



River = Torrente Salvia Reach = SP46 RS = 1
ANTE OPERA

