REGIONE BASILICATA
PROVINCIA DI MATERA
COMUNE DI IRSINA

PROGETTO DI UN IMPIANTO SOLARE AGRIVOLTAICO DENOMINATO "AGRIVOLTAICO PIANO DEL CARRO" DA REALIZZARSI NEL COMUNE DI IRSINA (MT) NELLA CONTRADA DI "PIANO DEL CARRO" E DELLE RELATIVE OPERE DI CONNESSIONE NEL COMUNE DI OPPIDO LUCANO (PZ) CON POTENZA PARI A 19.712,16 kWp (18.200,00 kW IN IMMISSIONE) INTEGRATO CON TECNOLOGIA STORAGE.

PROGETTO DEFINITIVO

RELAZIONE IDROLOGICA - IDRAULICA - Appendice B

livello prog.	GOAL	tipo doc.	N° elaborato	N° foglio	Tot. fogli	NOME FILE	DATA	SCALA
PD						IRS_A3.3	04.08.2021	

REVISIONI

REV.	DATA	DESCRIZIONE	ESEGUITO	VERIFICATO	APPROVATO

CanadianSolar

PROPONENTE:

IOTA PEGASO S.R.L.
Via Mercato 3, 20121 Milano (MI)
CF:11467120967

ENTE:

PROGETTAZIONE:

HORIZONFIRM

Ing. D. Siracusa
Ing. A. Costantino
Ing. C. Chiaruzzi
Arch. A. Calandrino
Arch. M. Gullo
Arch. S. Martorana
Arch. F. G. Mazzola
Arch. P. Provenzano
Ing. G. Buffa
Ing. G. Schillaci
Arch. Y. Kokalah
Arch. G. Vella

Firmato digitalmente da: siracusa dario
Data: 20/09/2021 16:48:38

ORDINE DEGLI INGEGNERI DELLA PROVINCIA DI AGRIGENTO
DOTT. ING. DARIO SIRACUSA
Settori civile ambientale industriale e dell'informazione
n°A1742

IL PROGETTISTA

Sommario

1 Stato di fatto

1.1 Dati tabellari

River	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
RIVER_2	474	PF 1	1.1	261.43	261.77	261.55	261.77	0.000137	0.15	7.42	26.86	0.09
RIVER_2	474	PF 2	2.3	261.43	262.09	261.58	262.09	0.000046	0.14	16.12	26.86	0.06
RIVER_2	435	PF 1	1.1	261.34	261.77		261.77	0.000104	0.15	7.22	20.13	0.08
RIVER_2	435	PF 2	2.3	261.34	262.09		262.09	0.000055	0.17	13.75	20.13	0.06
RIVER_2	401	PF 1	1.1	261.23	261.77		261.77	0.00003	0.1	10.89	21.89	0.05
RIVER_2	401	PF 2	2.3	261.23	262.09		262.09	0.000025	0.13	18	21.89	0.05
RIVER_2	371	PF 1	1.1	259.92	261.77	260.29	261.77	0.000007	0.08	14.32	14.04	0.02
RIVER_2	371	PF 2	2.3	259.92	262.09	260.44	262.09	0.000013	0.12	18.88	14.04	0.03
RIVER_2	350		Culvert									
RIVER_2	318	PF 1	1.1	261.03	261.21	261.21	261.24	0.025707	0.73	1.41	22.51	0.97
RIVER_2	318	PF 2	2.3	261.03	261.25	261.25	261.3	0.021201	0.95	2.41	23.85	0.96
RIVER_2	275	PF 1	1.1	256.26	256.35	256.52	259.75	4.028731	8.17	0.13	2.73	11.74
RIVER_2	275	PF 2	2.3	256.26	256.39	256.63	260.01	2.631277	8.42	0.27	3.84	10.08

River	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
RIVER_2	234	PF 1	1.1	253.17	253.36	253.48	253.76	0.144135	2.79	0.39	3.25	2.56
RIVER_2	234	PF 2	2.3	253.17	253.43	253.6	254.1	0.155383	3.62	0.64	3.75	2.81
RIVER_2	183	PF 1	1.1	251.75	251.95	252.01	252.14	0.072915	1.92	0.57	5.03	1.82
RIVER_2	183	PF 2	2.3	251.75	252.02	252.12	252.31	0.078431	2.38	0.97	6.52	1.97
RIVER_2	128	PF 1	1.1	248.75	249.04	249.23	249.9	0.294588	4.11	0.27	1.83	3.43
RIVER_2	128	PF 2	2.3	248.75	249.16	249.39	250.17	0.224093	4.46	0.52	2.54	3.16
RIVER_2	74	PF 1	1.1	246.63	246.91	246.97	247.12	0.098299	2.04	0.54	5.13	2.01
RIVER_2	74	PF 2	2.3	246.63	246.96	247.06	247.3	0.123507	2.56	0.9	7.19	2.31
RIVER_2	19	PF 1	1.1	241.83	242.12	242.37	243.69	0.570241	5.53	0.2	1.35	4.6
RIVER_2	19	PF 2	2.3	241.83	242.25	242.55	243.86	0.36499	5.61	0.41	1.95	3.91
River 1	519	PF 1	1.2	262.58	263.29	262.73	263.29	0.000008	0.05	23.75	51.3	0.02
River 1	519	PF 2	2.42	262.58	263.65	262.77	263.65	0.000005	0.06	42.54	51.3	0.02
River 1	470	PF 1	1.2	262.58	263.29		263.29	0.000009	0.06	21.1	40.54	0.03
River 1	470	PF 2	2.42	262.58	263.65		263.65	0.000006	0.07	35.94	40.54	0.02
River 1	438	PF 1	1.2	262.39	263.29	262.55	263.29	0.000007	0.06	20.28	29.77	0.02

River	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
River 1	438	PF 2	2.42	262.39	263.65	262.61	263.65	0.000007	0.08	31.18	29.77	0.02
River 1	400		Culvert									
River 1	362	PF 1	1.2	260.98	261.35	261.35	261.45	0.020857	1.42	0.85	4.22	1.01
River 1	362	PF 2	2.42	260.98	261.48	261.48	261.61	0.019181	1.64	1.47	5.51	1.01
River 1	312	PF 1	1.2	259.08	259.22	259.32	260.39	0.963063	4.78	0.25	3.88	6.01
River 1	312	PF 2	2.42	259.08	259.25	259.38	260.57	1.398459	5.08	0.48	8.88	7
River 1	234	PF 1	1.2	252.99	253.2	253.3	253.55	0.129129	2.62	0.46	3.82	2.42
River 1	234	PF 2	2.42	252.99	253.28	253.43	253.8	0.113086	3.21	0.75	4.17	2.41
River 1	166	PF 1	1.2	247.74	247.99	248.21	249.22	0.370086	4.91	0.24	1.67	4.1
River 1	166	PF 2	2.42	247.74	248.08	248.38	249.82	0.358946	5.85	0.41	2.12	4.23
River 1	74	PF 1	1.2	244.14	244.36	244.39	244.47	0.086884	1.48	0.81	11.98	1.82
River 1	74	PF 2	2.42	244.14	244.39	244.45	244.59	0.099144	1.95	1.24	13.43	2.05
River 1	19	PF 1	1.2	241.99	242.07	242.14	242.32	0.201134	2.21	0.54	8.24	2.74
River 1	19	PF 2	2.42	241.99	242.11	242.21	242.47	0.159828	2.65	0.91	8.78	2.63
FOSSO GAMBARARA	1974	PF 1	17.91	239.07	239.52	239.52	239.62	0.019861	1.37	13.08	71.75	1.02

River	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
FOSSO GAMBARARA	1974	PF 2	35.62	239.07	239.64	239.64	239.77	0.016174	1.6	22.28	82.96	0.99
FOSSO GAMBARARA	1838	PF 1	17.91	238.12	238.86	238.78	238.97	0.008124	1.43	12.53	33.02	0.74
FOSSO GAMBARARA	1838	PF 2	35.62	238.12	239.03	238.99	239.21	0.010962	1.85	19.24	43.1	0.88
FOSSO GAMBARARA	1701	PF 1	17.91	237.37	238.57		238.63	0.007428	1.15	15.54	52.82	0.68
FOSSO GAMBARARA	1701	PF 2	35.62	237.37	238.75		238.84	0.006485	1.36	26.24	63.05	0.67
FOSSO GAMBARARA	1558	PF 1	17.91	237.36	238.08	238.06	238.21	0.012844	1.59	11.27	35.74	0.9
FOSSO GAMBARARA	1558	PF 2	35.62	237.36	238.26	238.25	238.44	0.013613	1.84	19.4	51.79	0.96
FOSSO GAMBARARA	1395	PF 1	17.91	236.96	237.61		237.7	0.008072	1.35	13.23	37.61	0.73
FOSSO GAMBARARA	1395	PF 2	35.62	236.96	237.85		237.96	0.006684	1.47	24.15	52.44	0.69
FOSSO GAMBARARA	1272	PF 1	17.91	236.76	237.44		237.5	0.003542	1.05	17.03	37.97	0.5
FOSSO GAMBARARA	1272	PF 2	35.62	236.76	237.68		237.76	0.003897	1.3	27.35	47.36	0.55

River	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
FOSSO GAMBARARA	1121	PF 1	17.91	236.55	237.28		237.33	0.003514	1.01	17.7	41.1	0.49
FOSSO GAMBARARA	1121	PF 2	35.62	236.55	237.49		237.58	0.003758	1.35	26.39	41.61	0.54
FOSSO GAMBARARA	964	PF 1	17.91	235.75	236.85	236.85	237.01	0.016726	1.75	10.25	34.26	1.02
FOSSO GAMBARARA	964	PF 2	35.62	235.75	237.04	237.04	237.26	0.014299	2.07	17.17	39.46	1
FOSSO GAMBARARA	847	PF 1	17.91	235.36	236.19	236.26	236.43	0.015091	2.19	8.18	18	1.04
FOSSO GAMBARARA	847	PF 2	35.62	235.36	236.45	236.47	236.71	0.015402	2.26	15.77	33.67	1.05
FOSSO GAMBARARA	605	PF 1	17.91	234.31	235.19	235.19	235.29	0.019089	1.38	12.98	68.45	1.01
FOSSO GAMBARARA	605	PF 2	35.62	234.31	235.3	235.3	235.44	0.018351	1.66	21.5	83.64	1.04
FOSSO GAMBARARA	438	PF 1	17.91	233.72	234.71	234.52	234.76	0.006051	0.99	18.04	65.37	0.6
FOSSO GAMBARARA	438	PF 2	35.62	233.72	234.84	234.75	234.93	0.006948	1.32	27.08	71.28	0.68
FOSSO GAMBARARA	177	PF 1	17.91	233.19	233.97	233.93	234.09	0.011867	1.56	11.45	34.97	0.87
FOSSO GAMBARARA	177	PF 2	35.62	233.19	234.24	234.14	234.37	0.007097	1.55	22.94	48.13	0.72

River	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
FOSSO GAMBARARA	40	PF 1	17.91	231.91	233.26	233.26	233.54	0.014194	2.34	7.67	14.31	1.02
FOSSO GAMBARARA	40	PF 2	35.62	231.91	233.69	233.69	233.95	0.013487	2.29	15.54	29.04	1
River 4	1599	PF 1	3.62	267.1	267.36	267.36	267.44	0.020626	1.22	2.96	19.73	1.01
River 4	1599	PF 2	8.55	267.1	267.48	267.48	267.59	0.018407	1.47	5.8	26.88	1.01
River 4	1406	PF 1	3.62	262.4	262.64	262.86	264	0.461201	5.21	0.7	5.52	4.66
River 4	1406	PF 2	8.55	262.4	262.75	263.06	264.55	0.35697	6	1.44	7.61	4.38
River 4	1222	PF 1	3.62	259.82	260.11	260.12	260.19	0.022821	1.27	2.85	19.54	1.06
River 4	1222	PF 2	8.55	259.82	260.21	260.23	260.36	0.026762	1.74	4.91	23.55	1.22
River 4	1067	PF 1	3.62	258.24	259.03	258.41	259.03	0.000055	0.12	26.8	61.5	0.06
River 4	1067	PF 2	8.55	258.24	259.32	258.51	259.32	0.000068	0.15	50.14	94.72	0.07
River 4	974	PF 1	3.62	257.53	259.03	257.79	259.03	0.000002	0.04	83.79	77.06	0.01
River 4	974	PF 2	8.55	257.53	259.32	257.91	259.32	0.000005	0.08	106.13	77.06	0.02
River 4	900		Culvert									
River 4	889	PF 1	3.62	255.84	256.23	256.23	256.29	0.01977	1.16	3.13	21.69	0.97
River 4	889	PF 2	8.55	255.84	256.34	256.34	256.45	0.019582	1.45	5.89	28.88	1.03

River	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
River 4	748	PF 1	3.62	254.89	255.12	255.14	255.21	0.033044	1.31	2.76	23.42	1.22
River 4	748	PF 2	8.55	254.89	255.21	255.24	255.36	0.033376	1.75	4.88	27.09	1.32
River 4	610	PF 1	3.62	253.56	253.88	253.89	253.97	0.026737	1.31	2.75	19.83	1.13
River 4	610	PF 2	8.55	253.56	253.98	254.01	254.14	0.025702	1.75	4.89	22.2	1.19
River 4	468	PF 1	3.62	252.43	252.79	252.8	252.9	0.02258	1.51	2.4	12.17	1.09
River 4	468	PF 2	8.55	252.43	252.96	252.98	253.1	0.022134	1.67	5.11	22.03	1.11
River 4	317	PF 1	3.62	251.37	251.59	251.61	251.68	0.031584	1.34	2.69	21.28	1.21
River 4	317	PF 2	8.55	251.37	251.68	251.72	251.83	0.035244	1.76	4.86	27.77	1.34
River 4	192	PF 1	3.62	249.7	249.94	249.97	250.06	0.060752	1.52	2.39	25.86	1.6
River 4	192	PF 2	8.55	249.7	250.01	250.07	250.19	0.054112	1.86	4.6	33.69	1.61
River 4	60	PF 1	3.62	247.49	247.97	248.01	248.12	0.039056	1.7	2.12	13.91	1.39
River 4	60	PF 2	8.55	247.49	248.08	248.16	248.34	0.039501	2.24	3.82	16.69	1.5
River 5	1560	PF 1	5.85	256.94	257.63	257.63	257.74	0.020161	1.52	3.84	17.93	1.05
River 5	1560	PF 2	18.74	256.94	257.84	257.84	257.95	0.020098	1.42	13.16	68.39	1.04
River 5	1461	PF 1	5.85	256.22	256.52	256.57	256.7	0.071607	1.86	3.14	28.39	1.79

River	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
River 5	1461	PF 2	18.74	256.22	256.65	256.75	256.98	0.054964	2.54	7.38	34.28	1.75
River 5	1363	PF 1	5.85	255.08	255.58	255.58	255.65	0.023468	1.11	5.28	45.12	1.03
River 5	1363	PF 2	18.74	255.08	255.7	255.72	255.84	0.02585	1.64	11.39	57.83	1.18
River 5	1260	PF 1	5.85	253.73	254.13	254.19	254.31	0.099052	1.84	3.19	37.65	2.02
River 5	1260	PF 2	18.74	253.73	254.24	254.32	254.51	0.078793	2.34	8.01	55.45	1.96
River 5	1146	PF 1	5.85	252.2	252.76	252.76	252.84	0.022701	1.26	4.65	32.15	1.05
River 5	1146	PF 2	18.74	252.2	252.9	252.92	253.06	0.025039	1.77	10.6	47.25	1.19
River 5	1044	PF 1	5.85	251.46	251.64	251.68	251.79	0.054106	1.72	3.4	28.05	1.58
River 5	1044	PF 2	18.74	251.46	251.79	251.87	252.07	0.040063	2.35	7.97	32.68	1.52
River 5	955	PF 1	5.85	250.45	250.78	250.79	250.87	0.022427	1.31	4.48	28.99	1.06
River 5	955	PF 2	18.74	250.45	250.91	250.95	251.08	0.031183	1.83	10.23	51	1.31
River 5	886	PF 1	5.85	249.05	249.56	249.73	250.05	0.072421	3.12	1.88	7.83	2.04
River 5	886	PF 2	18.74	249.05	249.85	249.99	250.25	0.04904	2.8	6.7	24.76	1.72
River 5	794	PF 1	5.85	247.73	249.44	248.49	249.44	0.000094	0.18	33.04	69.88	0.08
River 5	794	PF 2	18.74	247.73	250.17	248.88	250.18	0.00004	0.2	91.81	81.44	0.06

River	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
River 5	750		Culvert									
River 5	703	PF 1	5.85	246.43	247.16	247.16	247.33	0.01604	1.82	3.22	9.73	1.01
River 5	703	PF 2	18.74	246.43	247.59	247.59	247.74	0.015792	1.73	10.83	35.13	1
River 5	631	PF 1	5.85	246.15	246.76	246.78	246.95	0.018945	1.94	3.02	9.48	1.09
River 5	631	PF 2	18.74	246.15	247.03	247.08	247.27	0.028298	2.19	8.57	30.33	1.31
River 5	516	PF 1	5.85	244.56	245.12	245.31	245.75	0.070928	3.51	1.67	5.69	2.07
River 5	516	PF 2	18.74	244.56	245.61	245.79	246.12	0.03689	3.14	5.96	14.75	1.58
River 5	376	PF 1	5.85	242.55	242.9	242.98	243.14	0.048675	2.17	2.7	14.55	1.61
River 5	376	PF 2	18.74	242.55	243.04	243.26	243.77	0.088145	3.78	4.96	18.13	2.31
River 5	258	PF 1	5.85	240.28	240.7	240.83	241.12	0.064279	2.87	2.04	8.87	1.91
River 5	258	PF 2	18.74	240.28	241.01	241.2	241.63	0.041462	3.5	5.35	12.4	1.7
River 5	142	PF 1	5.85	238.42	238.85	238.92	239.1	0.048743	2.25	2.59	13.18	1.62
River 5	142	PF 2	18.74	238.42	239.01	239.23	239.75	0.070877	3.81	4.92	15.05	2.13
River 5	16	PF 1	5.85	237.3	237.62	237.65	237.78	0.02488	1.76	3.33	14.9	1.19
River 5	16	PF 2	18.74	237.3	237.87	237.92	238.13	0.024094	2.28	8.22	24.33	1.25

River	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
River 6	1138	PF 1	0.42	256.1	256.33	256.33	256.39	0.024596	1.1	0.38	3.16	1.02
River 6	1138	PF 2	1.66	256.1	256.51	256.51	256.63	0.020015	1.53	1.09	4.7	1.01
River 6	1076	PF 1	0.42	253.2	253.31	253.44	254.78	1.635774	5.36	0.08	1.41	7.26
River 6	1076	PF 2	1.66	253.2	253.41	253.62	255.3	0.921162	6.1	0.27	2.62	6.04
River 6	1007	PF 1	0.42	250.74	250.89	250.92	250.99	0.056911	1.36	0.31	3.6	1.49
River 6	1007	PF 2	1.66	250.74	250.99	251.07	251.23	0.069529	2.14	0.78	5.36	1.79
River 6	917	PF 1	0.42	248.61	248.74	248.79	248.89	0.10614	1.72	0.24	3.2	2
River 6	917	PF 2	1.66	248.61	248.86	248.94	249.11	0.085324	2.25	0.74	5.53	1.96
River 6	826	PF 1	0.42	247.26	247.38	247.38	247.42	0.030842	0.81	0.52	8.74	1.05
River 6	826	PF 2	1.66	247.26	247.45	247.48	247.55	0.037901	1.4	1.18	10.01	1.3
River 6	730	PF 1	0.42	246.24	246.4	246.4	246.44	0.036159	0.88	0.48	7.79	1.14
River 6	730	PF 2	1.66	246.24	246.48	246.49	246.56	0.030139	1.2	1.38	12.37	1.15
River 6	627	PF 1	0.42	245.23	245.37	245.37	245.42	0.029522	0.97	0.43	5.27	1.08
River 6	627	PF 2	1.66	245.23	245.47	245.5	245.58	0.03203	1.45	1.14	8.03	1.23
River 6	550	PF 1	0.42	244.54	244.71	244.69	244.74	0.013359	0.73	0.58	5.93	0.74
River 6	550	PF 2	1.66	244.54	244.8	244.82	244.9	0.026357	1.38	1.21	7.87	1.12

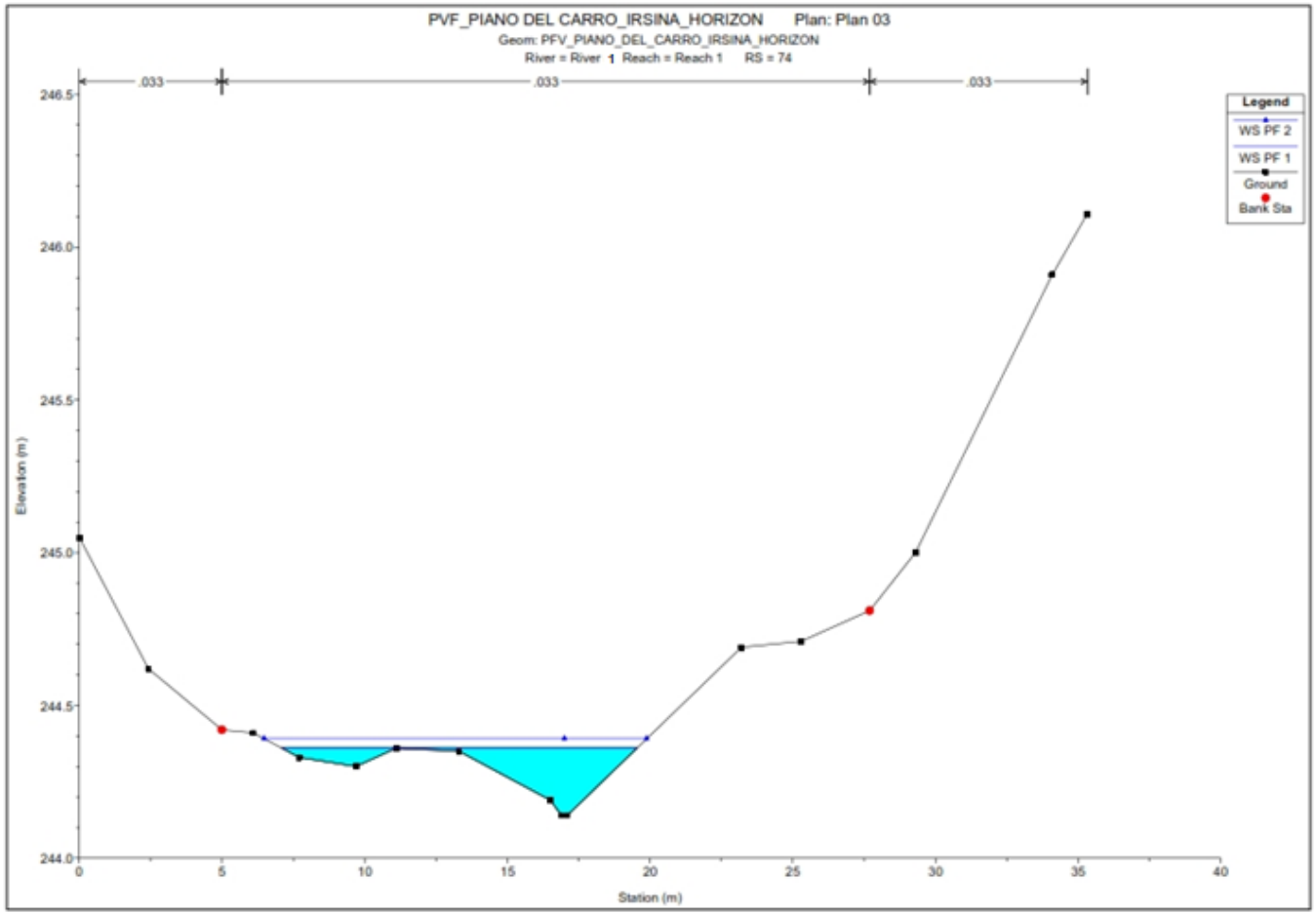
River	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
River 6	458	PF 1	0.42	244.03	244.19	244.19	244.24	0.024424	0.96	0.44	4.58	1
River 6	458	PF 2	1.66	244.03	244.37	244.33	244.42	0.012094	1.01	1.64	9.45	0.78
River 6	393	PF 1	0.42	243.64	243.87	243.72	243.87	0.000361	0.17	2.43	14.6	0.13
River 6	393	PF 2	1.66	243.64	244.4		244.4	0.000031	0.09	17.63	41.66	0.05
River 6	340	PF 1	0.42	243.46	243.87		243.87	0.000078	0.08	5.04	28.53	0.06
River 6	340	PF 2	1.66	243.46	244.4		244.4	0.000009	0.07	25.09	39.81	0.03
River 6	275	PF 1	0.42	243.33	243.87	243.39	243.87	0.000001	0.02	26.26	60.2	0.01
River 6	275	PF 2	1.66	243.33	244.4	243.44	244.4	0.000001	0.03	58.27	60.2	0.01
River 6	200		Culvert									
River 6	189	PF 1	0.42	242.54	242.74	242.73	242.76	0.015255	0.68	0.62	8.05	0.78
River 6	189	PF 2	1.66	242.54	242.84	242.82	242.88	0.01849	0.94	1.77	16.05	0.9
River 6	133	PF 1	0.42	242.29	242.39	242.39	242.42	0.027566	0.76	0.55	9.34	1
River 6	133	PF 2	1.66	242.29	242.47	242.47	242.52	0.024012	0.99	1.68	17.29	1.01
River 6	71	PF 1	0.42	242.02	242.18	242.13	242.19	0.004503	0.42	0.99	10.33	0.43
River 6	71	PF 2	1.66	242.02	242.32	242.23	242.34	0.003623	0.49	3.36	23.31	0.42

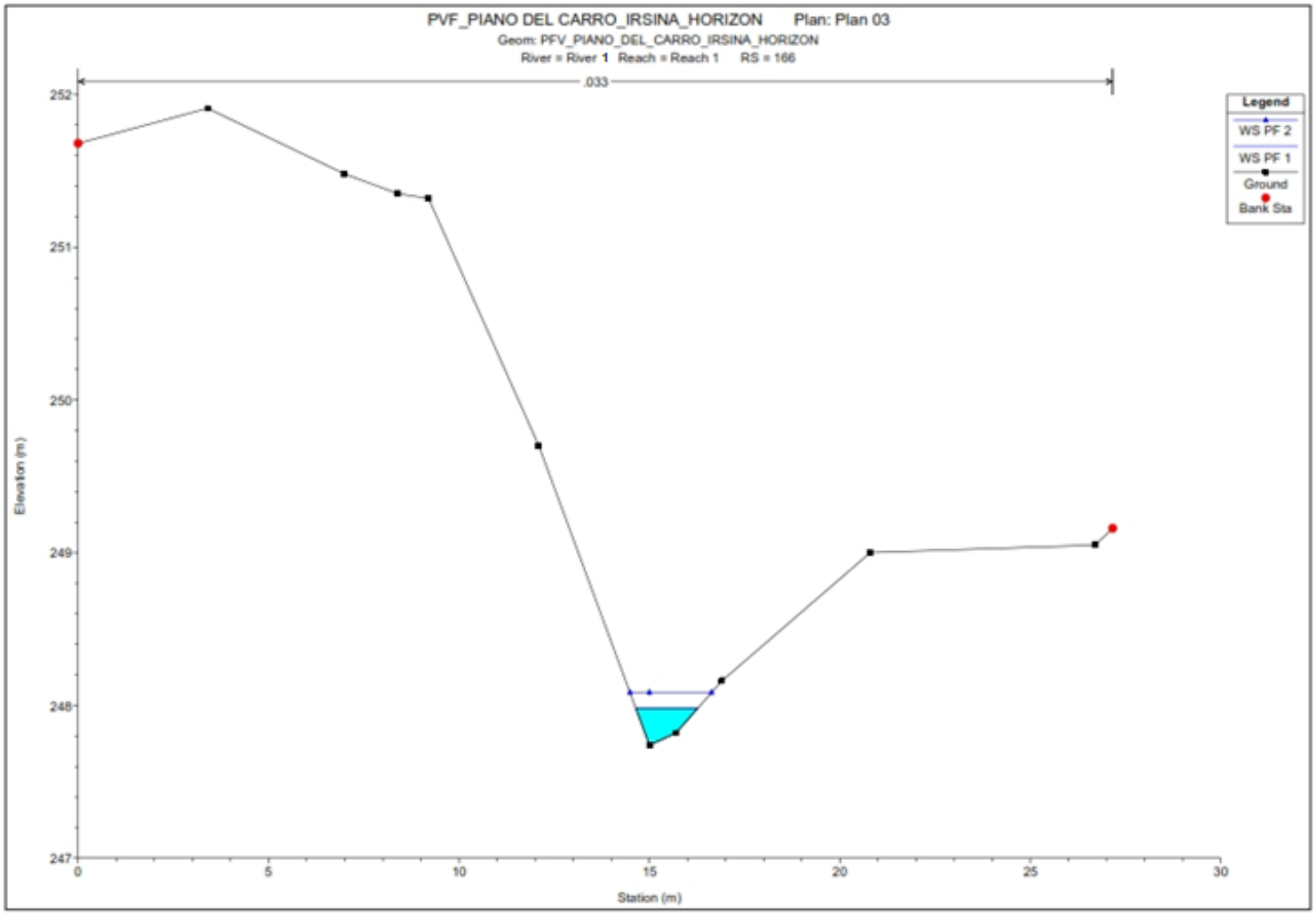
River	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
River 6	26	PF 1	0.42	241.89	242.02	242.02	242.06	0.025343	0.92	0.46	5.42	1
River 6	26	PF 2	1.66	241.89	242.16	242.16	242.23	0.022776	1.18	1.41	10.43	1.03
River 7	694	PF 1	0.42	246.65	246.76	246.76	246.79	0.027527	0.78	0.54	8.7	1
River 7	694	PF 2	1.48	246.65	246.83	246.83	246.87	0.02539	0.88	1.68	21.44	1
River 7	635	PF 1	0.42	245.84	245.9	245.92	245.96	0.094045	1.1	0.38	9.42	1.74
River 7	635	PF 2	1.48	245.84	245.95	245.99	246.09	0.089111	1.66	0.89	11.19	1.89
River 7	550	PF 1	0.42	244.89	245	244.99	245.03	0.02046	0.79	0.53	6.75	0.9
River 7	550	PF 2	1.48	244.89	245.09	245.09	245.16	0.021209	1.18	1.25	8.85	1
River 7	480	PF 1	0.42	244.32	244.5	244.5	244.55	0.025626	0.95	0.44	4.94	1.01
River 7	480	PF 2	1.48	244.32	244.62	244.62	244.69	0.02338	1.15	1.29	10.08	1.03
River 7	424	PF 1	0.42	243.82	243.97	243.98	244.03	0.036745	1.09	0.39	4.61	1.2
River 7	424	PF 2	1.48	243.82	244.07	244.09	244.19	0.0376	1.53	0.97	7.01	1.32
River 7	377	PF 1	0.42	243.43	243.59	243.59	243.63	0.025195	0.96	0.44	4.72	1.01
River 7	377	PF 2	1.48	243.43	244.01	243.71	244.01	0.000532	0.28	5.22	19.33	0.17
River 7	321	PF 1	0.42	243.29	243.54	243.38	243.54	0.000623	0.2	2.06	14.32	0.17
River 7	321	PF 2	1.48	243.29	244.01		244.01	0.000048	0.11	12.95	31.1	0.06

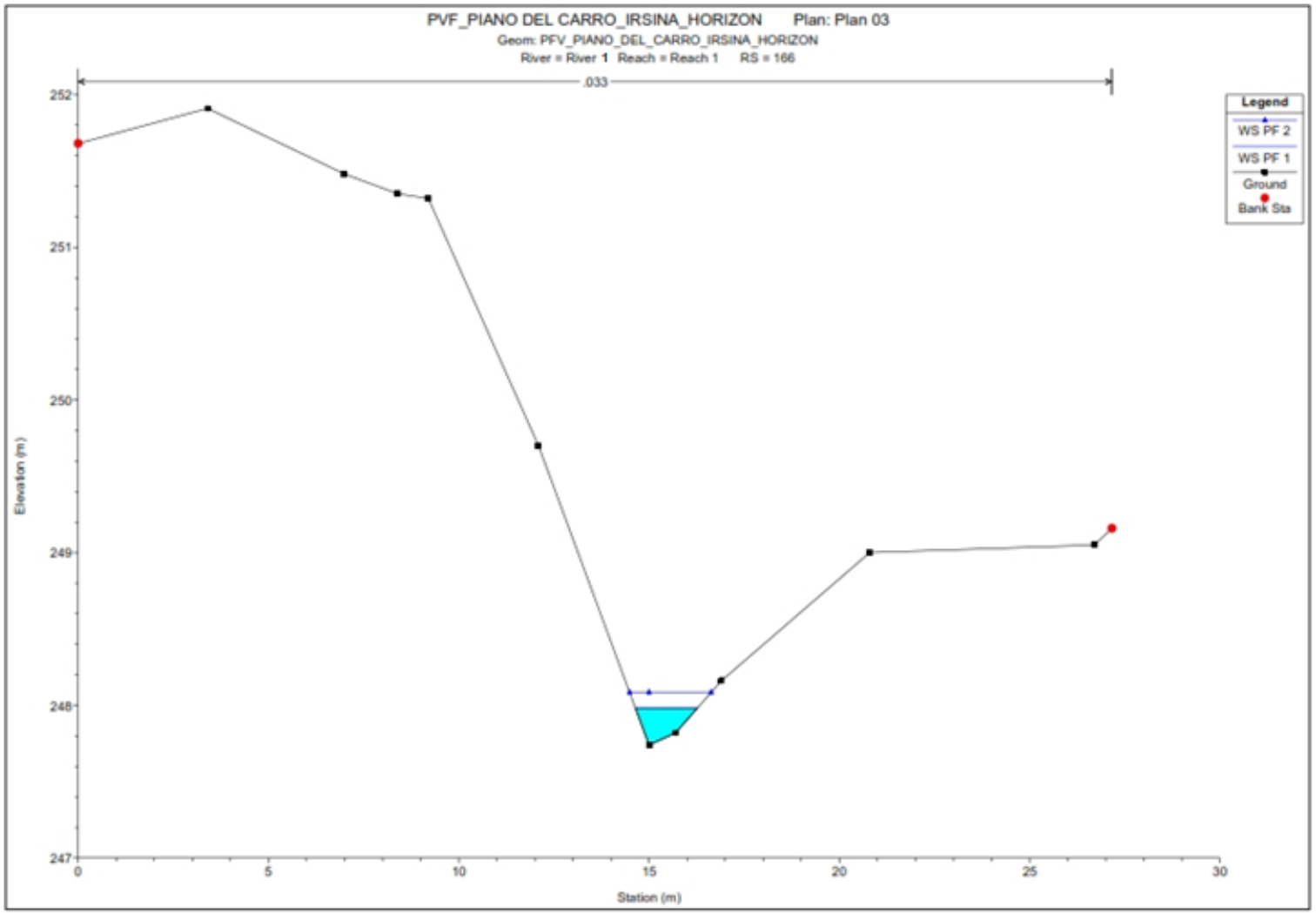
River	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
River 7	268	PF 1	0.42	243.06	243.54		243.54	0.000009	0.04	10.15	33.13	0.02
River 7	268	PF 2	1.48	243.06	244.01		244.01	0.000005	0.05	27.11	36.7	0.02
River 7	232	PF 1	0.42	243.02	243.54	243.13	243.54	0.000006	0.03	12.12	35.71	0.02
River 7	232	PF 2	1.48	243.02	244.01	243.18	244.01	0.000004	0.05	28.79	35.71	0.02
River 7	200		Culvert									
River 7	166	PF 1	0.42	242.04	242.16	242.16	242.18	0.030955	0.65	0.64	14.86	1.01
River 7	166	PF 2	1.48	242.04	242.22	242.22	242.26	0.024935	0.89	1.66	20.49	1
River 7	125	PF 1	0.42	241.59	241.67	241.68	241.71	0.048723	0.82	0.51	11.84	1.26
River 7	125	PF 2	1.48	241.59	241.72	241.75	241.79	0.062357	1.17	1.27	20.92	1.51
River 7	72	PF 1	0.42	241.17	241.28	241.27	241.29	0.020991	0.55	0.76	16.84	0.84
River 7	72	PF 2	1.48	241.17	241.34	241.32	241.36	0.016039	0.68	2.19	29.55	0.79
River 7	30	PF 1	0.42	240.85	240.95	240.95	240.99	0.025886	0.84	0.5	6.9	1
River 7	30	PF 2	1.48	240.85	241.05	241.05	241.08	0.030168	0.82	1.81	29.31	1.05

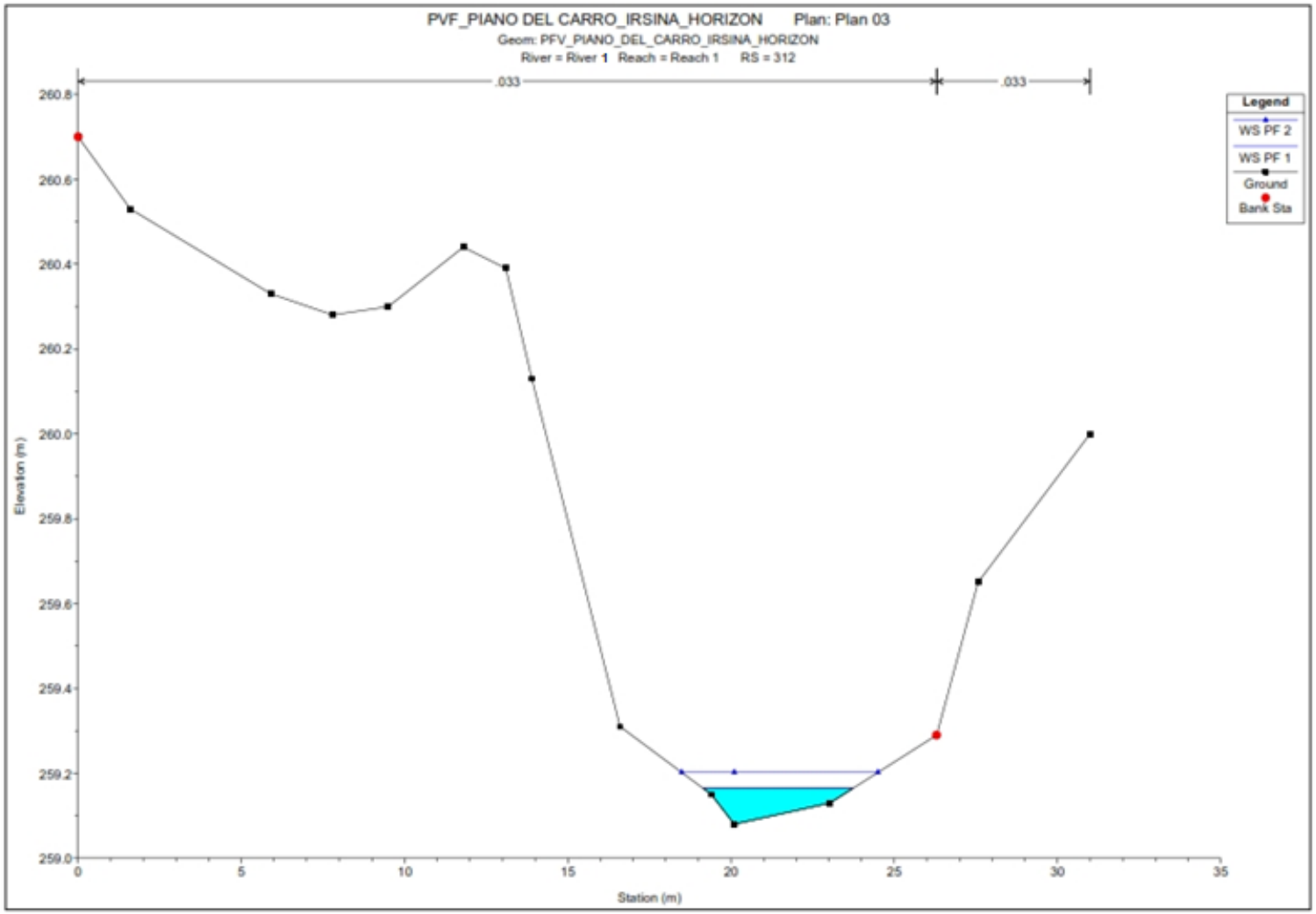
2 Risultati grafici – section plot

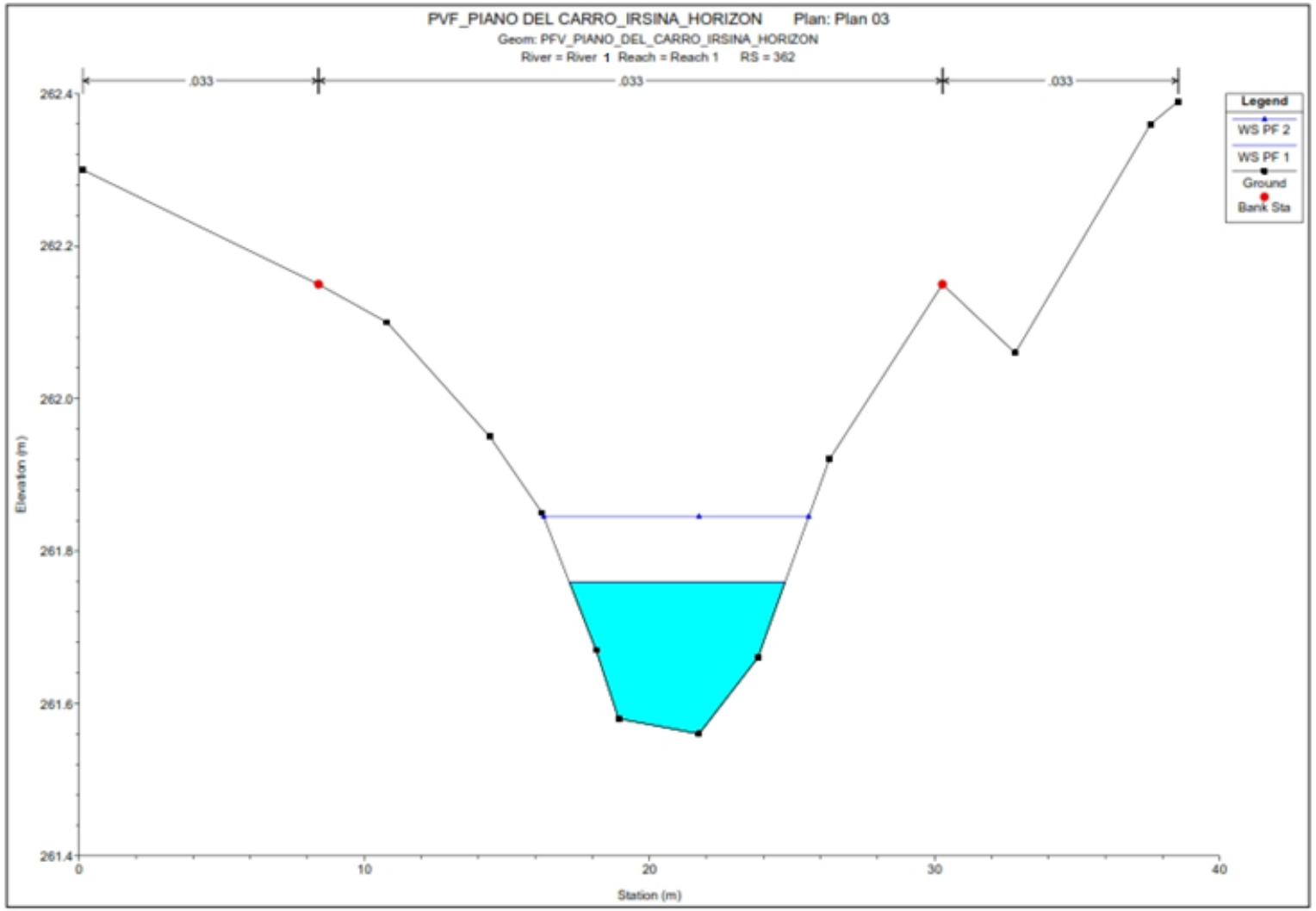
3 Stato di fatto

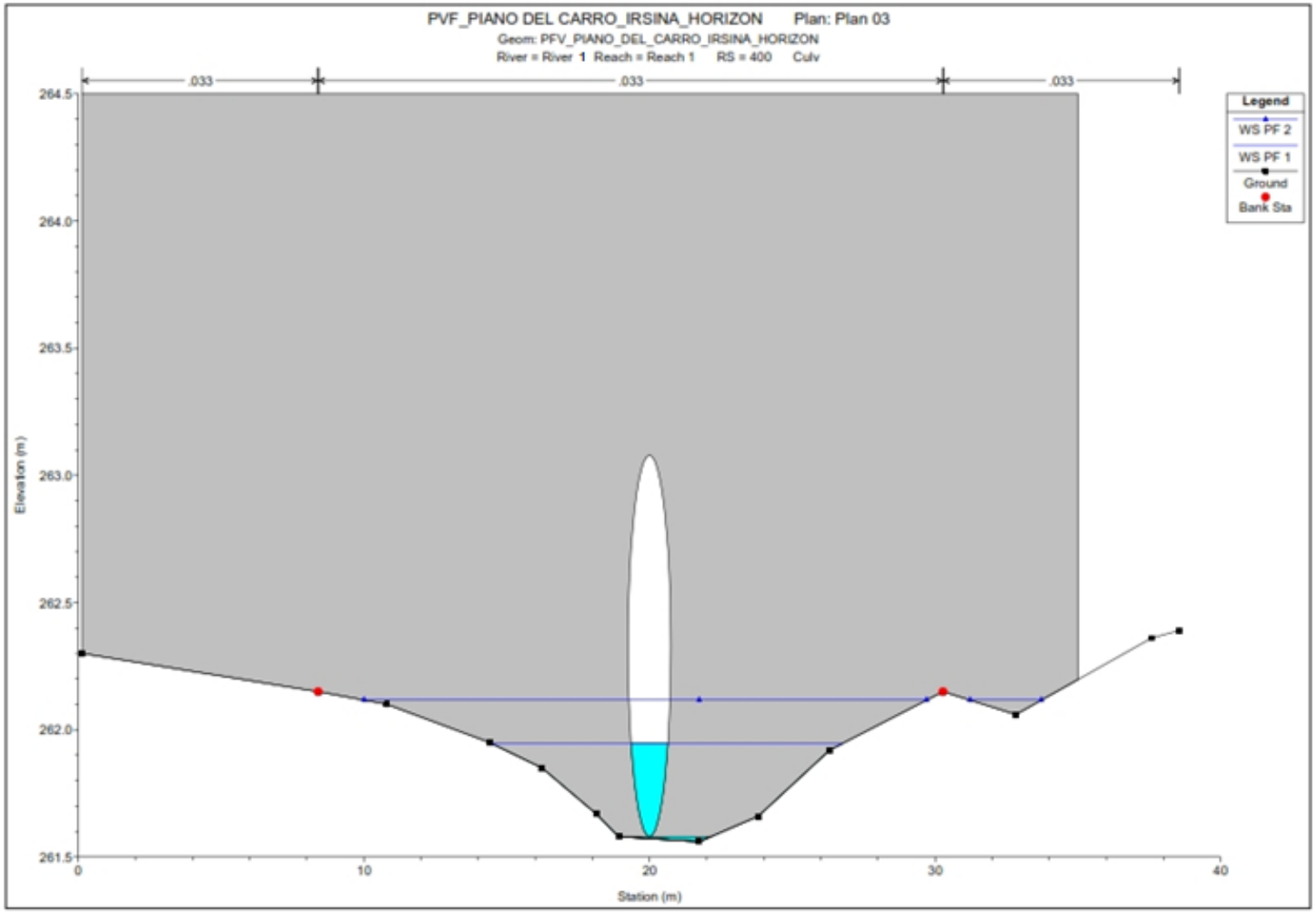


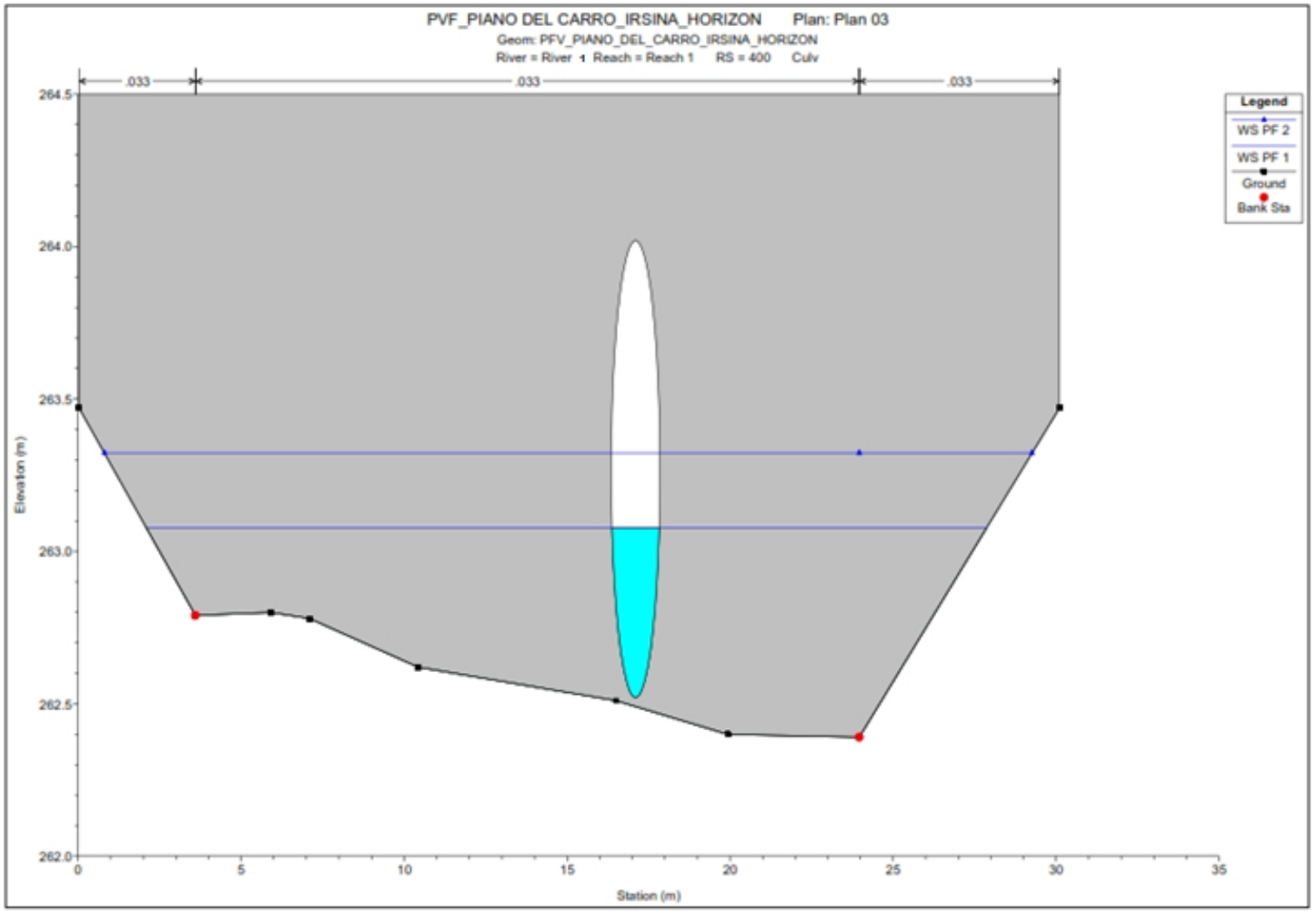

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = River 1 Reach = Reach 1 RS = 166
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
252
251
250
249
248
247
0
5
10
15
20
25
30

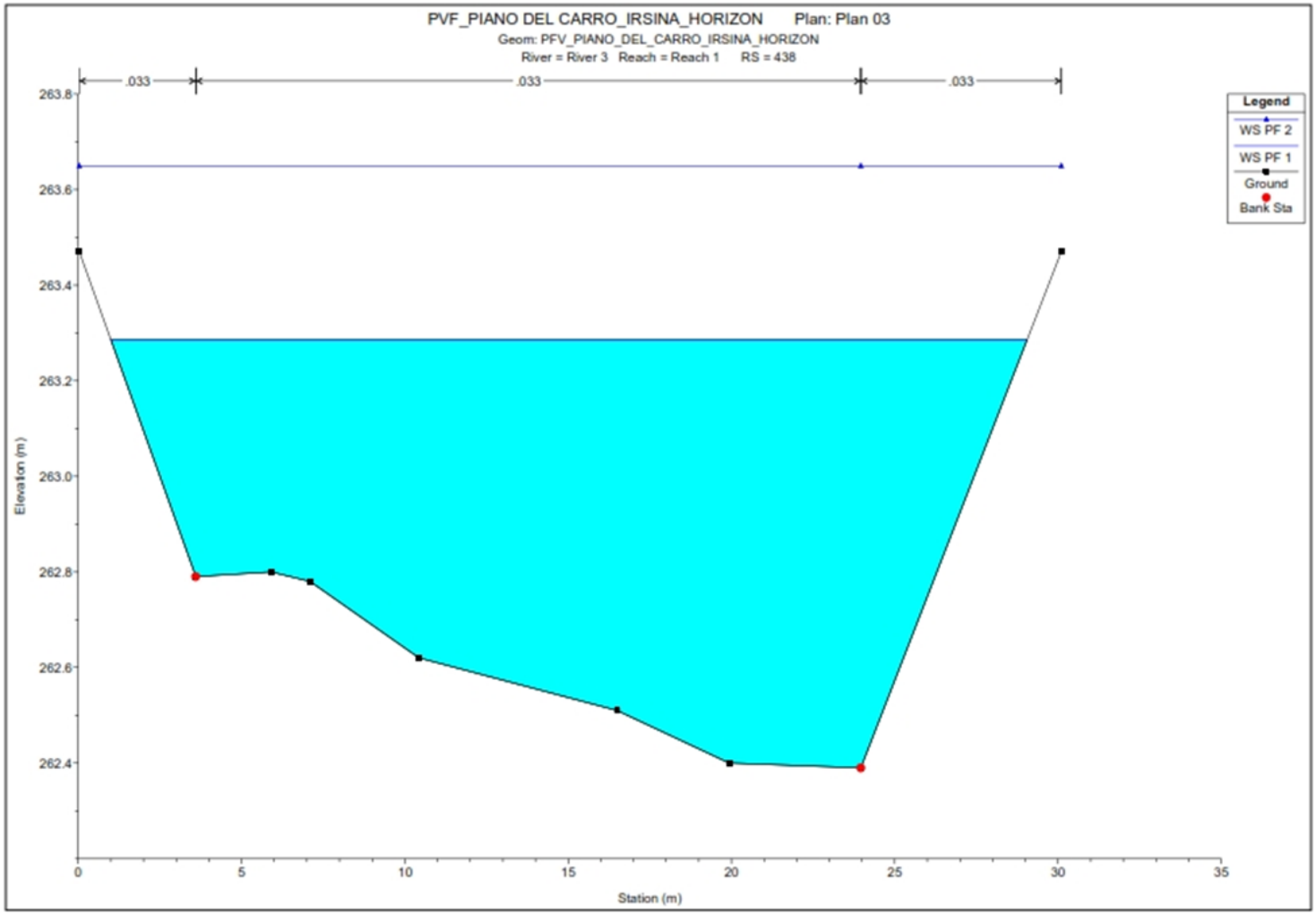

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = River 1 Reach = Reach 1 RS = 166
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
252
251
250
249
248
247
0
5
10
15
20
25
30

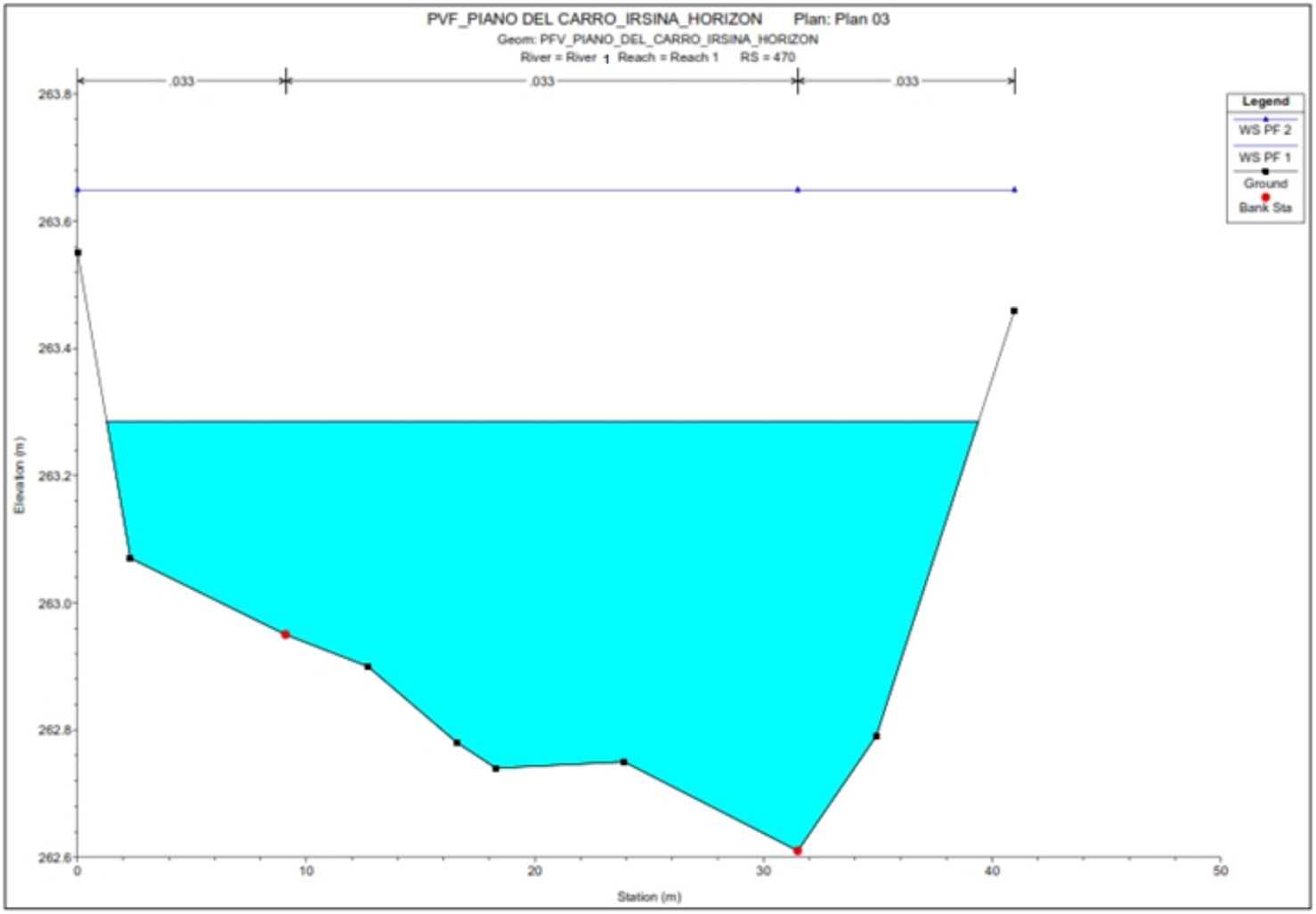

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = River 1 Reach = Reach 1 RS = 312
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
260.8
260.6
260.4
260.2
260.0
259.8
259.6
259.4
259.2
259.0
0
5
10
15
20
25
30
35
Station (m)

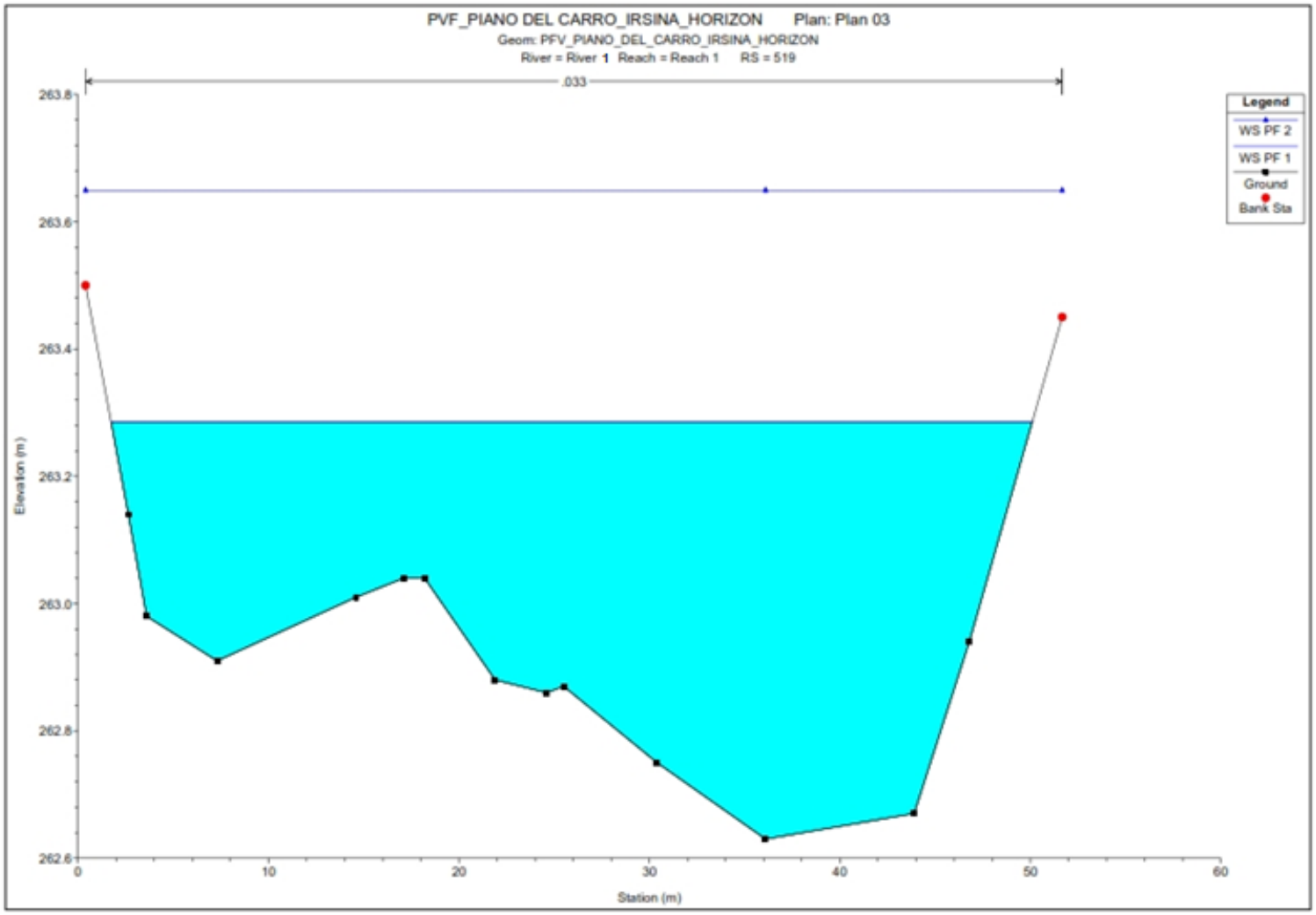

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = River 1 Reach = Reach 1 RS = 362
.033
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
262.4
262.2
262.0
261.8
261.6
261.4
Elevation (m)
0
10
20
30
40
Station (m)

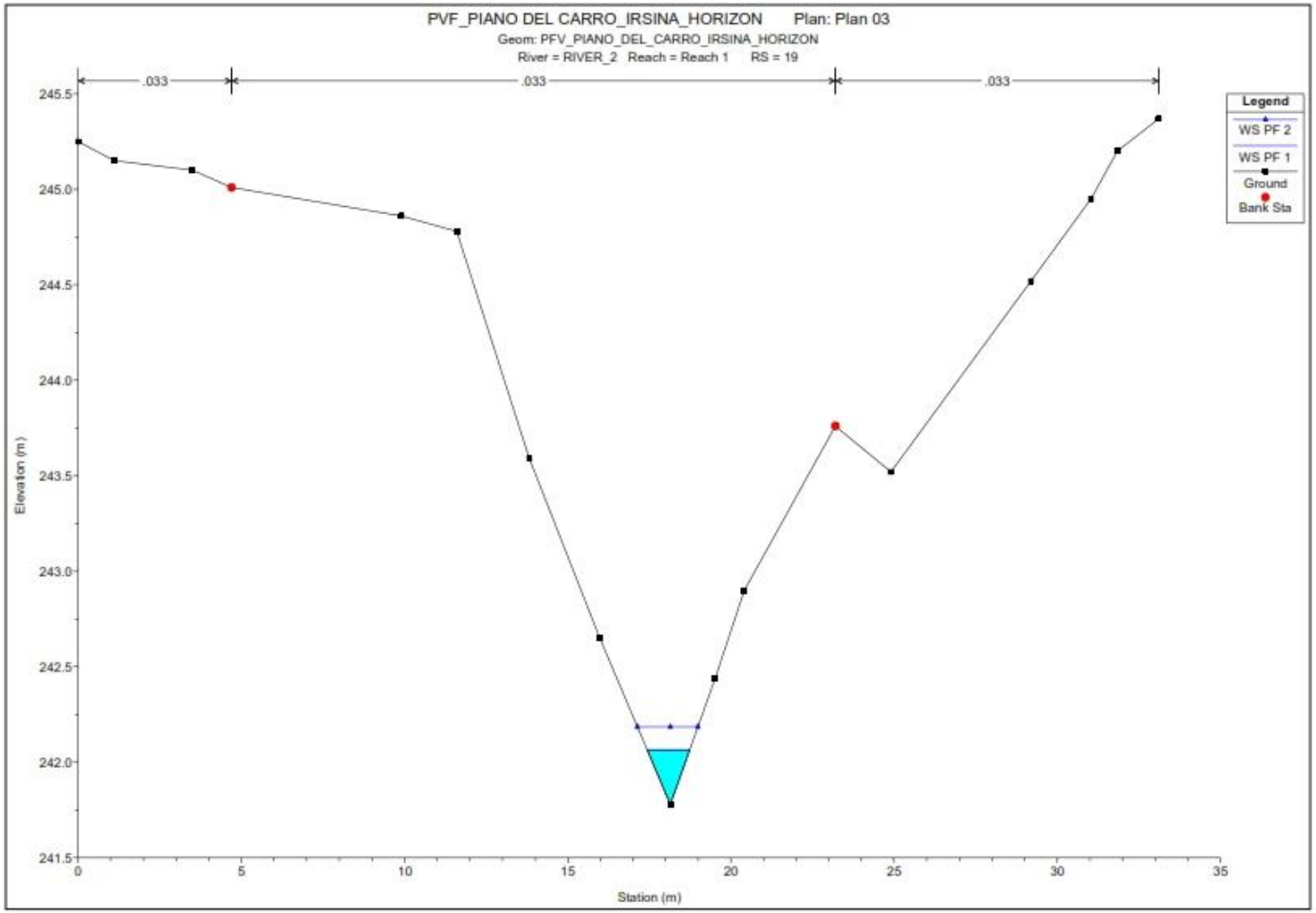

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = River 1 Reach = Reach 1 RS = 400 Culv
.033
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
264.5
264.0
263.5
263.0
262.5
262.0
261.5
0
10
20
30
40
Station (m)

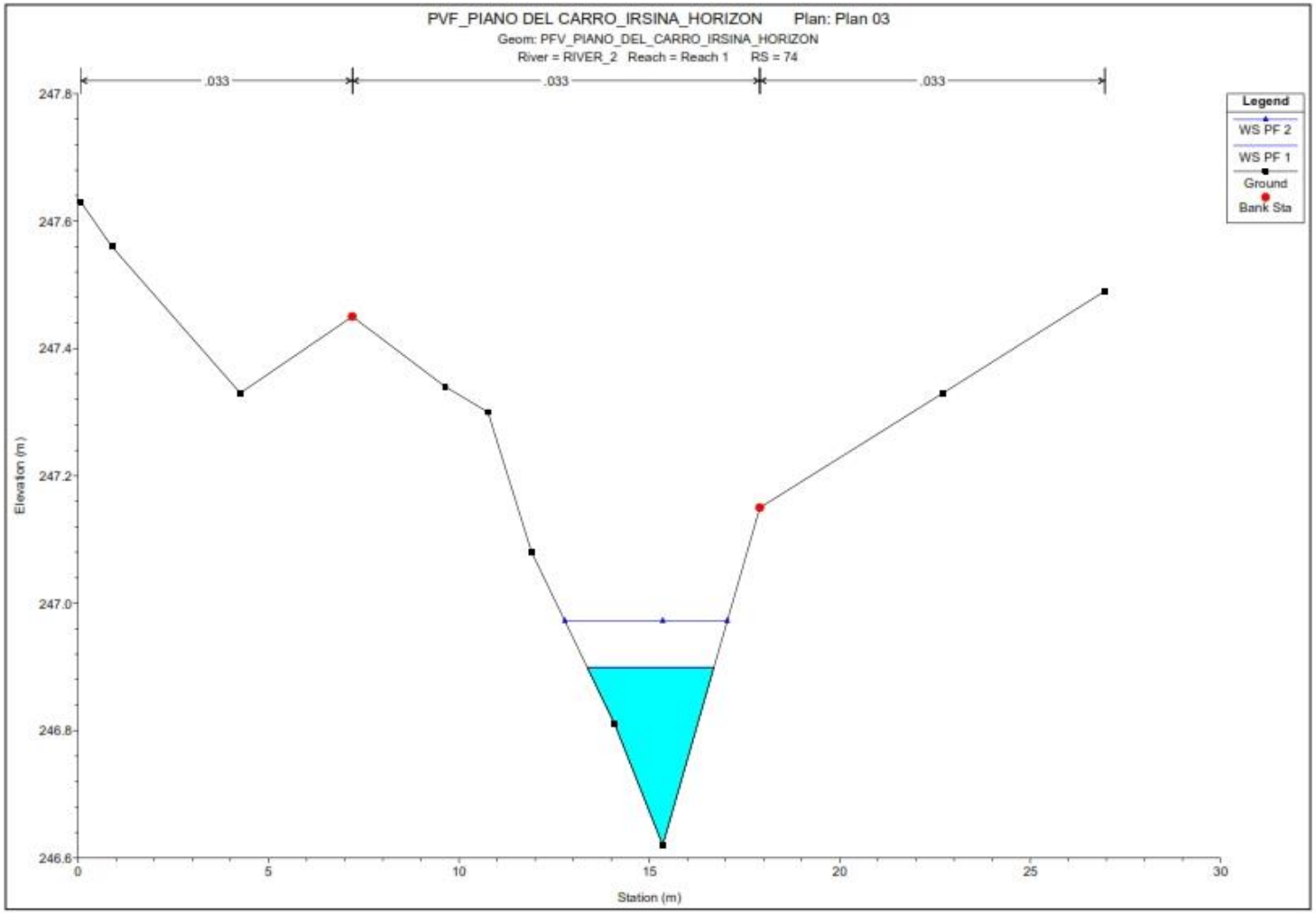

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = River 1 Reach = Reach 1 RS = 400 Culv
.033
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
264.5
264.0
263.5
263.0
262.5
262.0
0
5
10
15
20
25
30
35
Station (m)

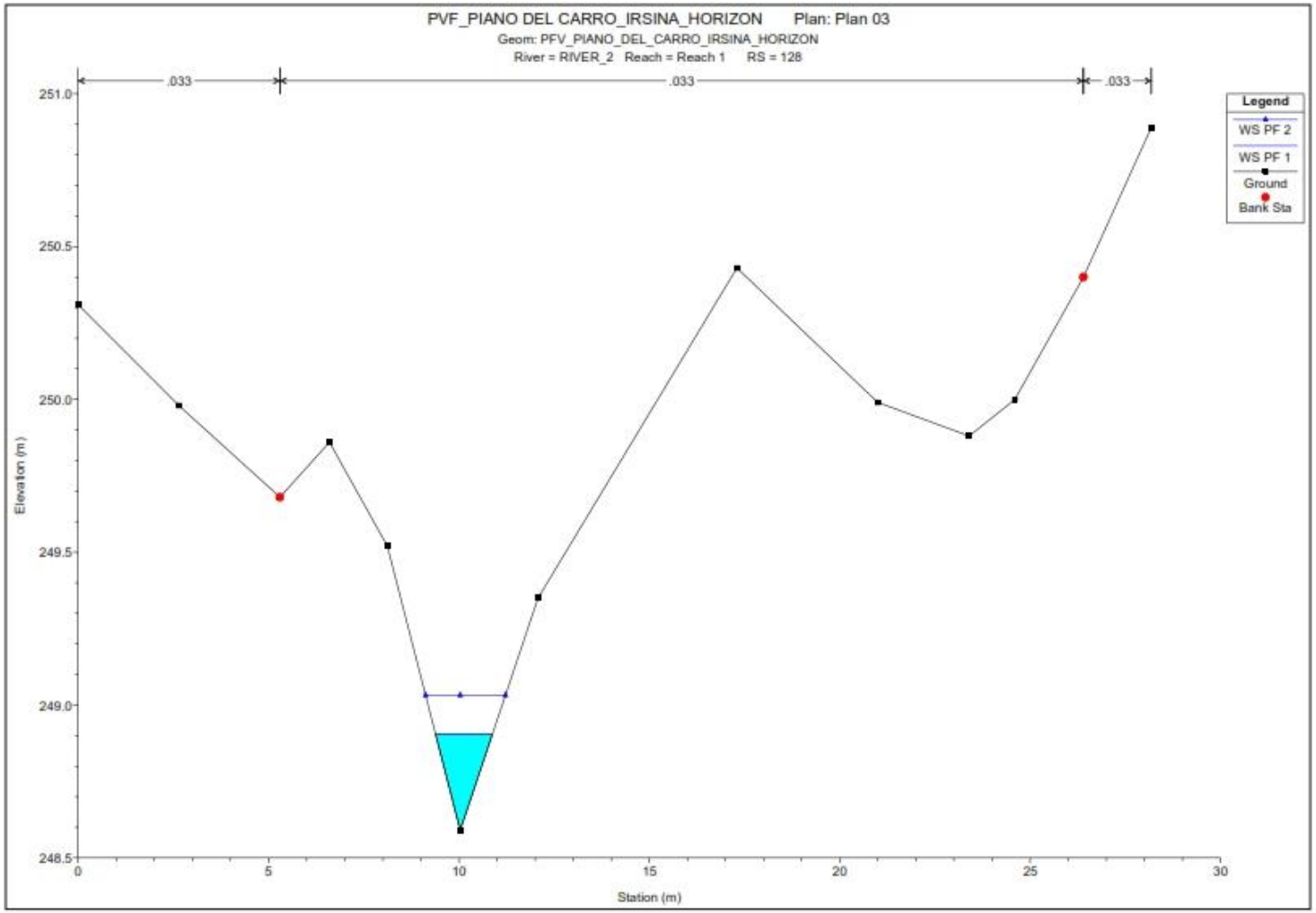

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = River 3 Reach = Reach 1 RS = 438
.033
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
263.8
263.6
263.4
263.2
263.0
262.8
262.6
262.4
0
5
10
15
20
25
30
35
Station (m)

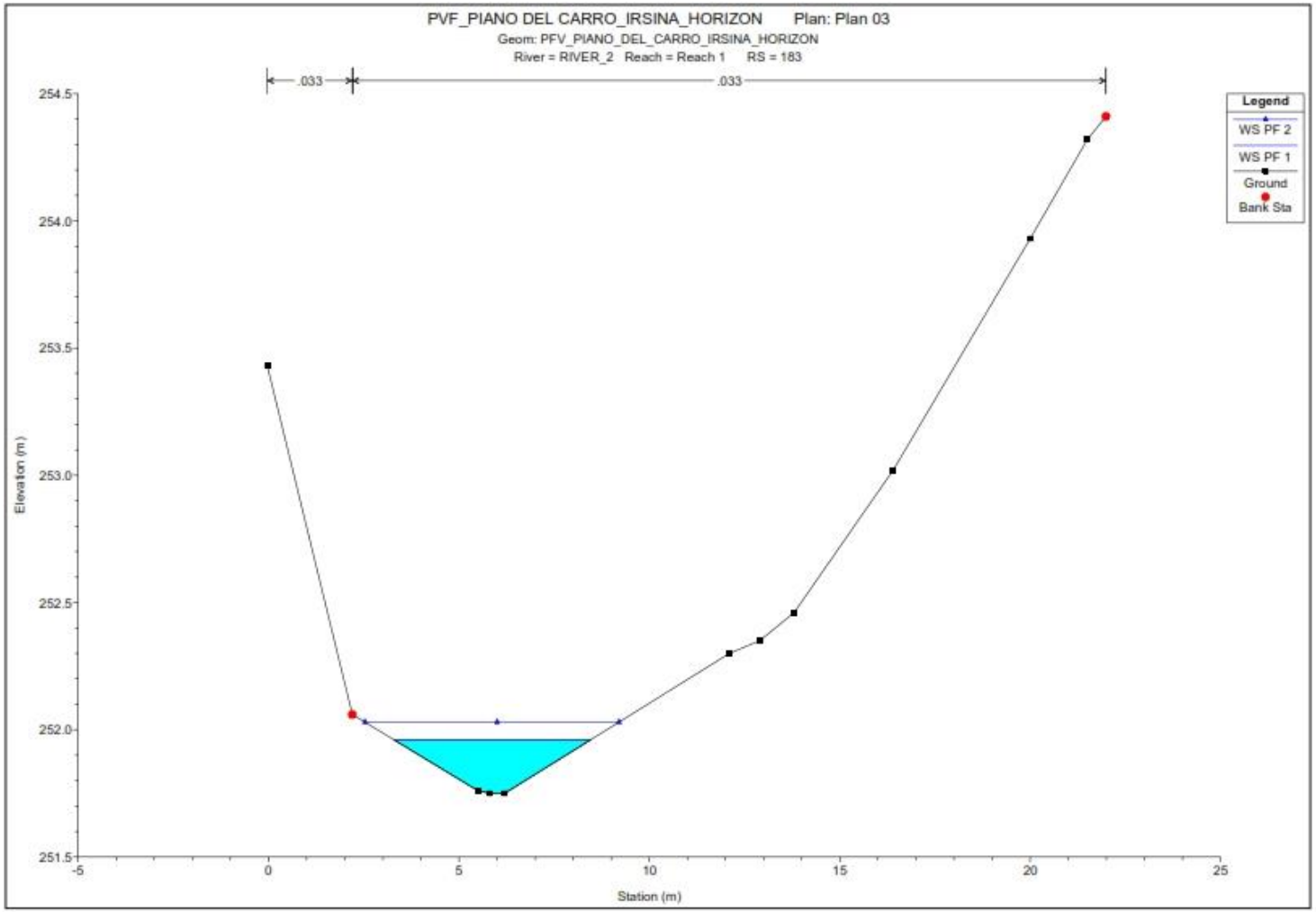

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = River 1 Reach = Reach 1 RS = 470
.033
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
263.8
263.6
263.4
263.2
263.0
262.8
262.6
Elevation (m)
0
10
20
30
40
50
Station (m)

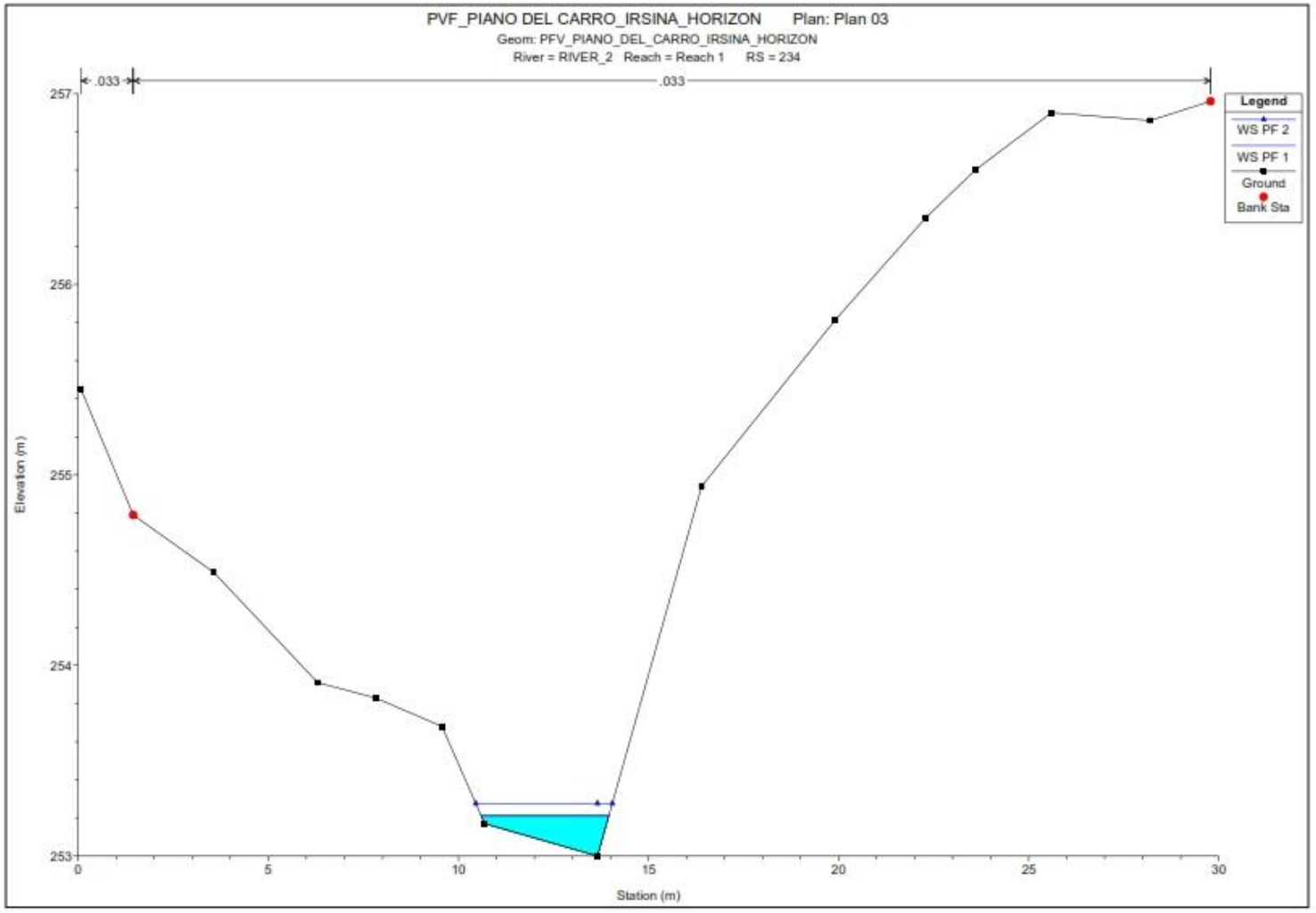

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = River 1 Reach = Reach 1 RS = 519
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
263.8
263.6
263.4
263.2
263.0
262.8
262.6
0
10
20
30
40
50
60
Station (m)

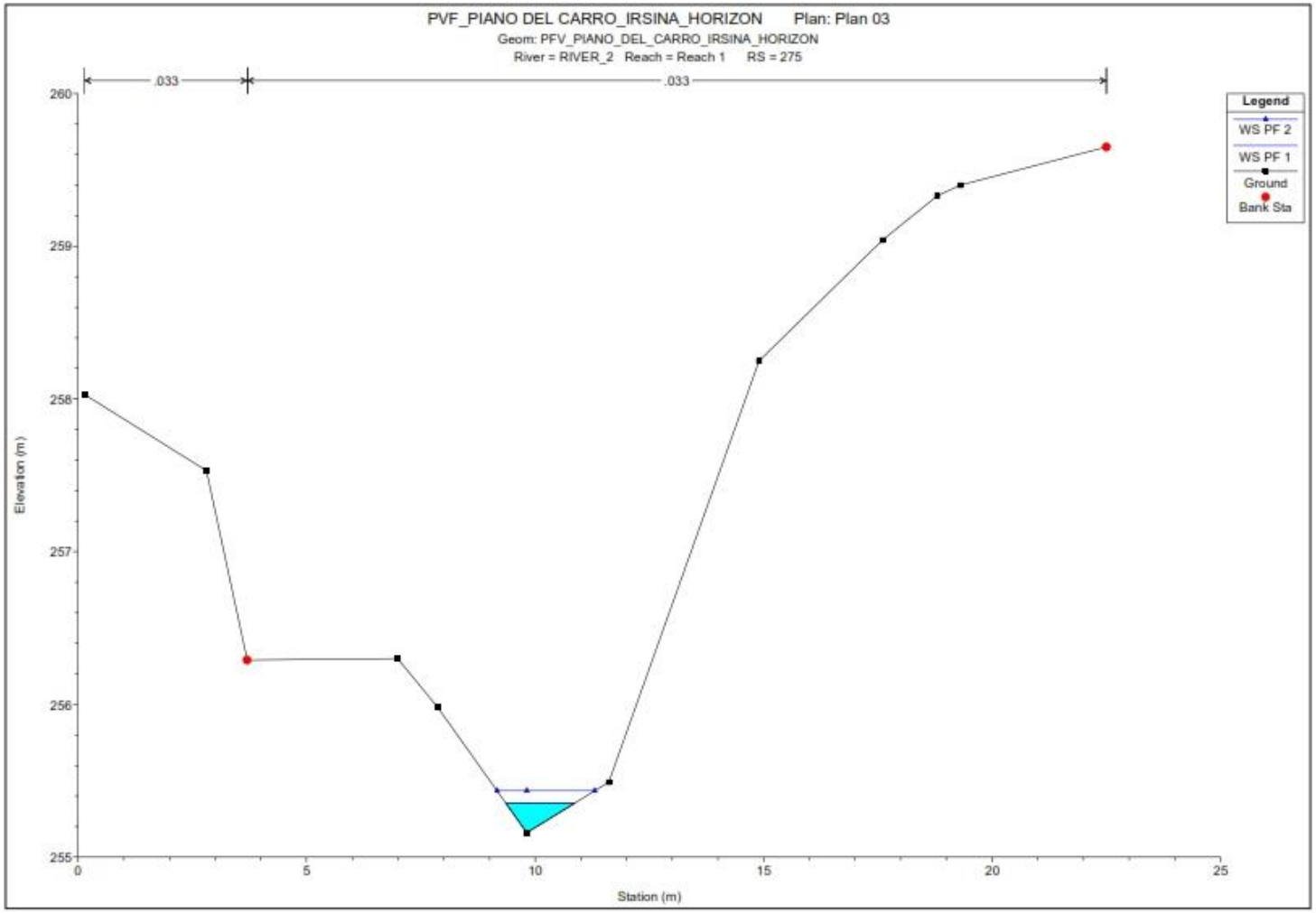

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = RIVER_2 Reach = Reach 1 RS = 19
.033
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
245.5
245.0
244.5
244.0
243.5
243.0
242.5
242.0
241.5
0
5
10
15
20
25
30
35
Station (m)

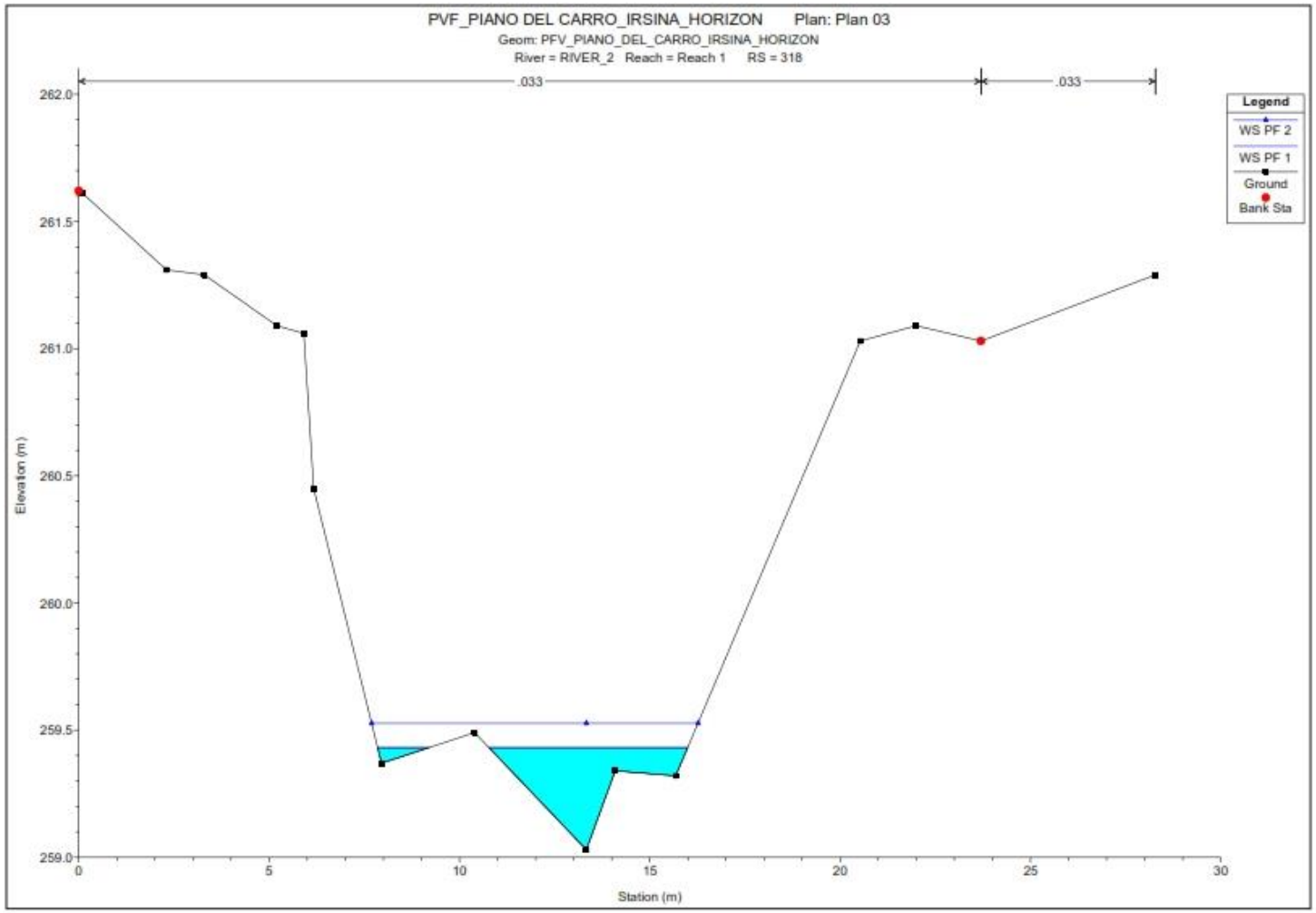

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = RIVER_2 Reach = Reach 1 RS = 74
.033
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
247.8
247.6
247.4
247.2
247.0
246.8
246.6
0
5
10
15
20
25
30
Station (m)

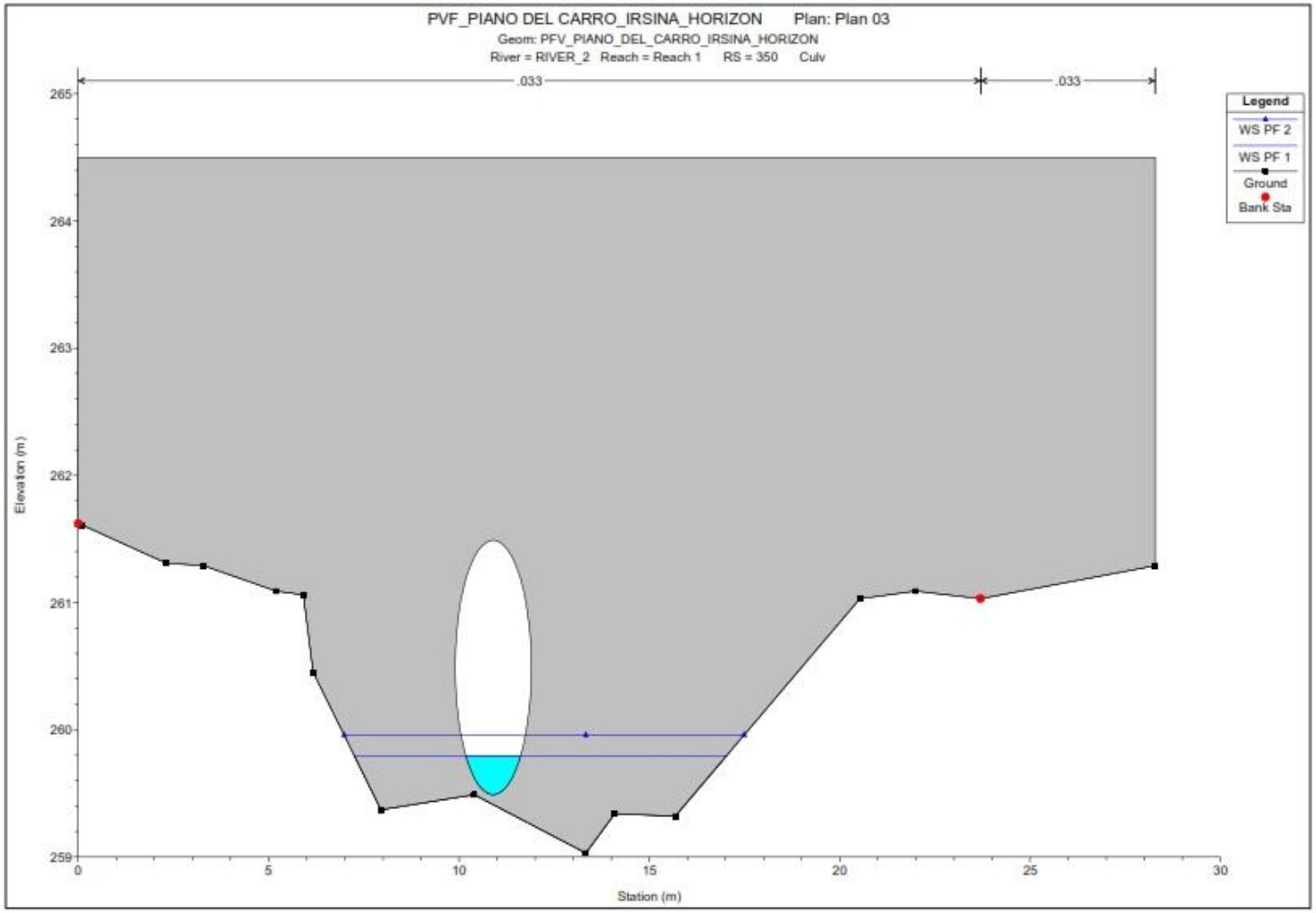

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = RIVER_2 Reach = Reach 1 RS = 128
.033
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
251.0
250.5
250.0
249.5
249.0
248.5
0
5
10
15
20
25
30

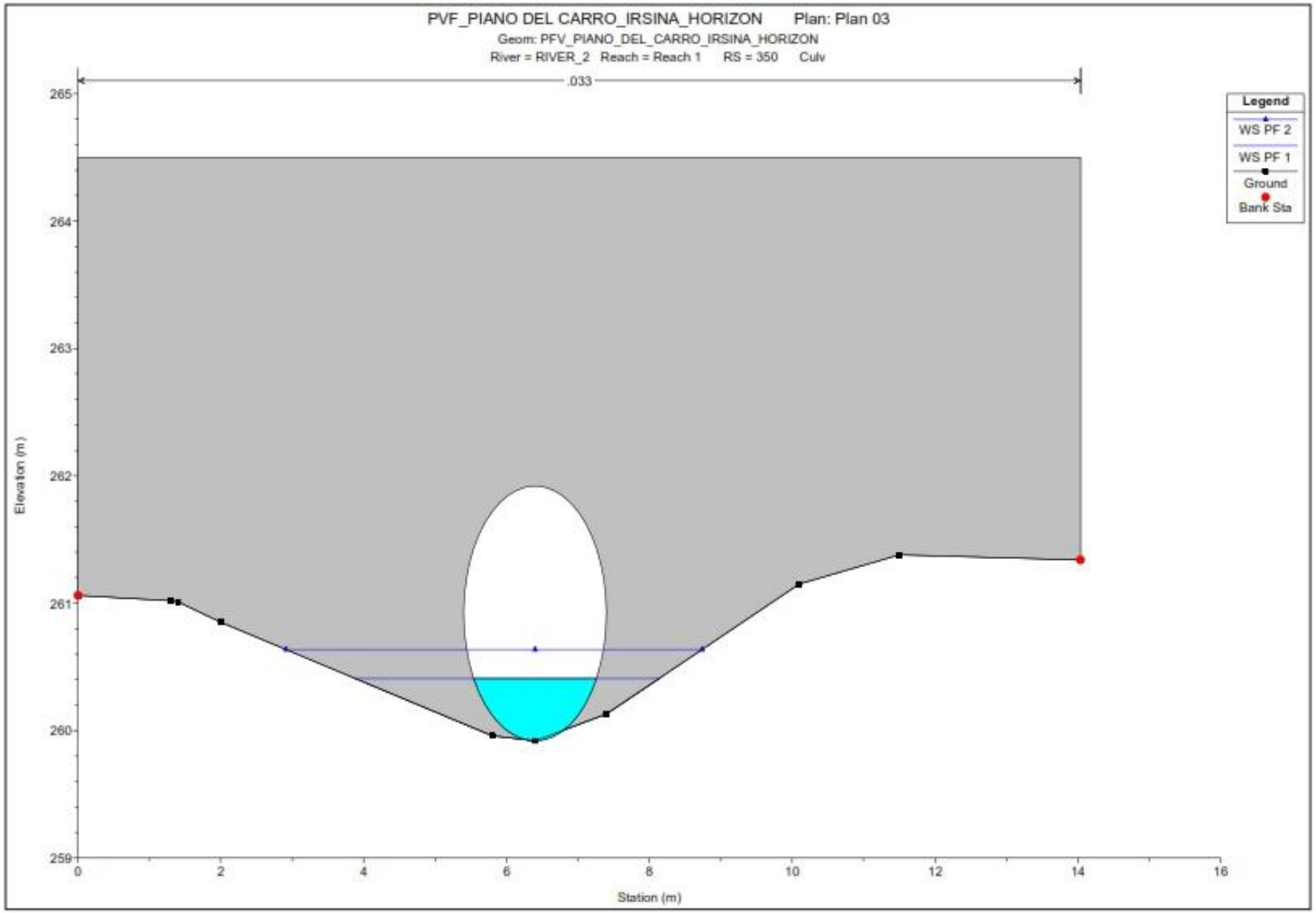

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = RIVER_2 Reach = Reach 1 RS = 183
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
254.5
254.0
253.5
253.0
252.5
252.0
251.5
-5
0
5
10
15
20
25

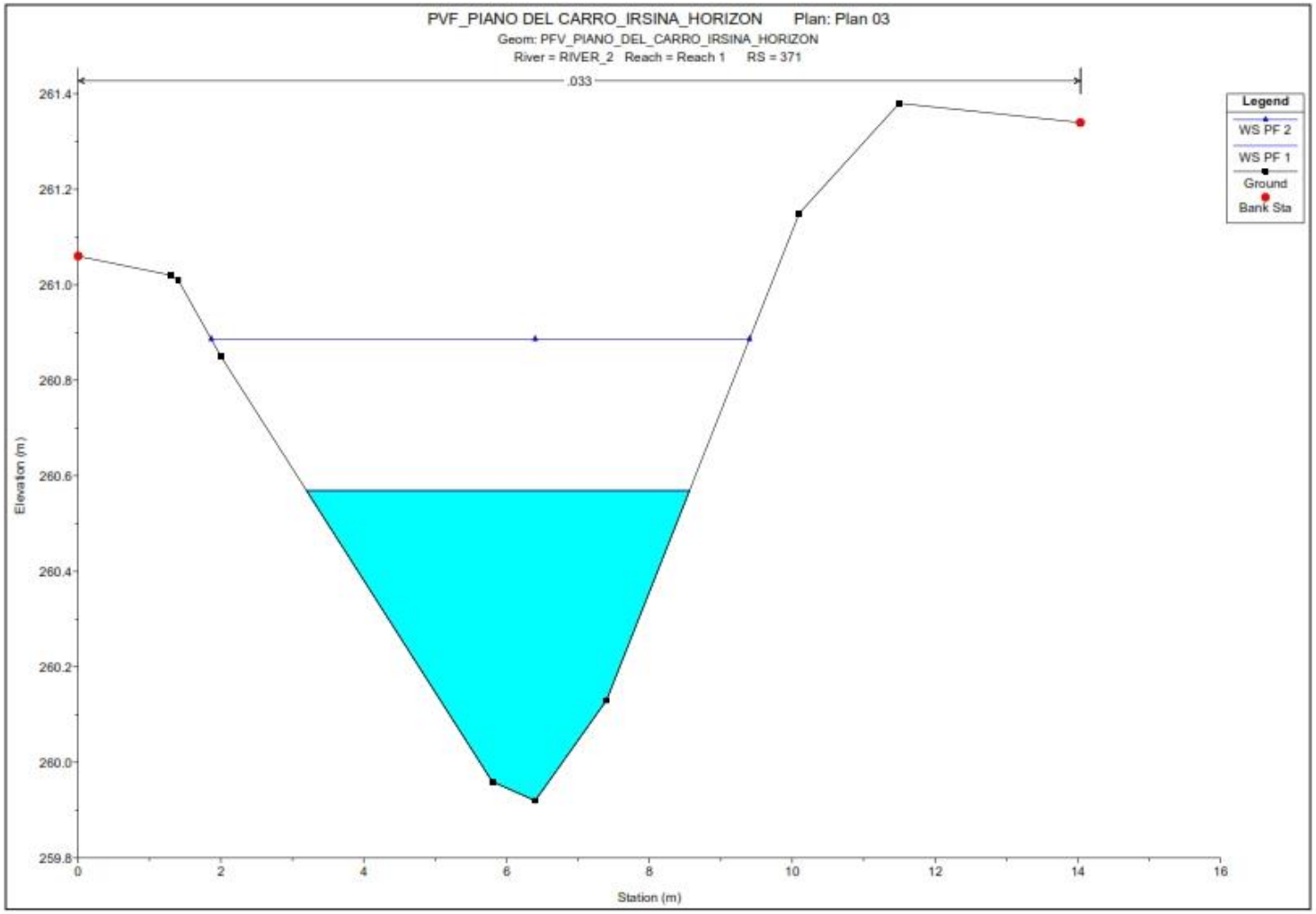

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = RIVER_2 Reach = Reach 1 RS = 234
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
257
256
255
254
253
0
5
10
15
20
25
30

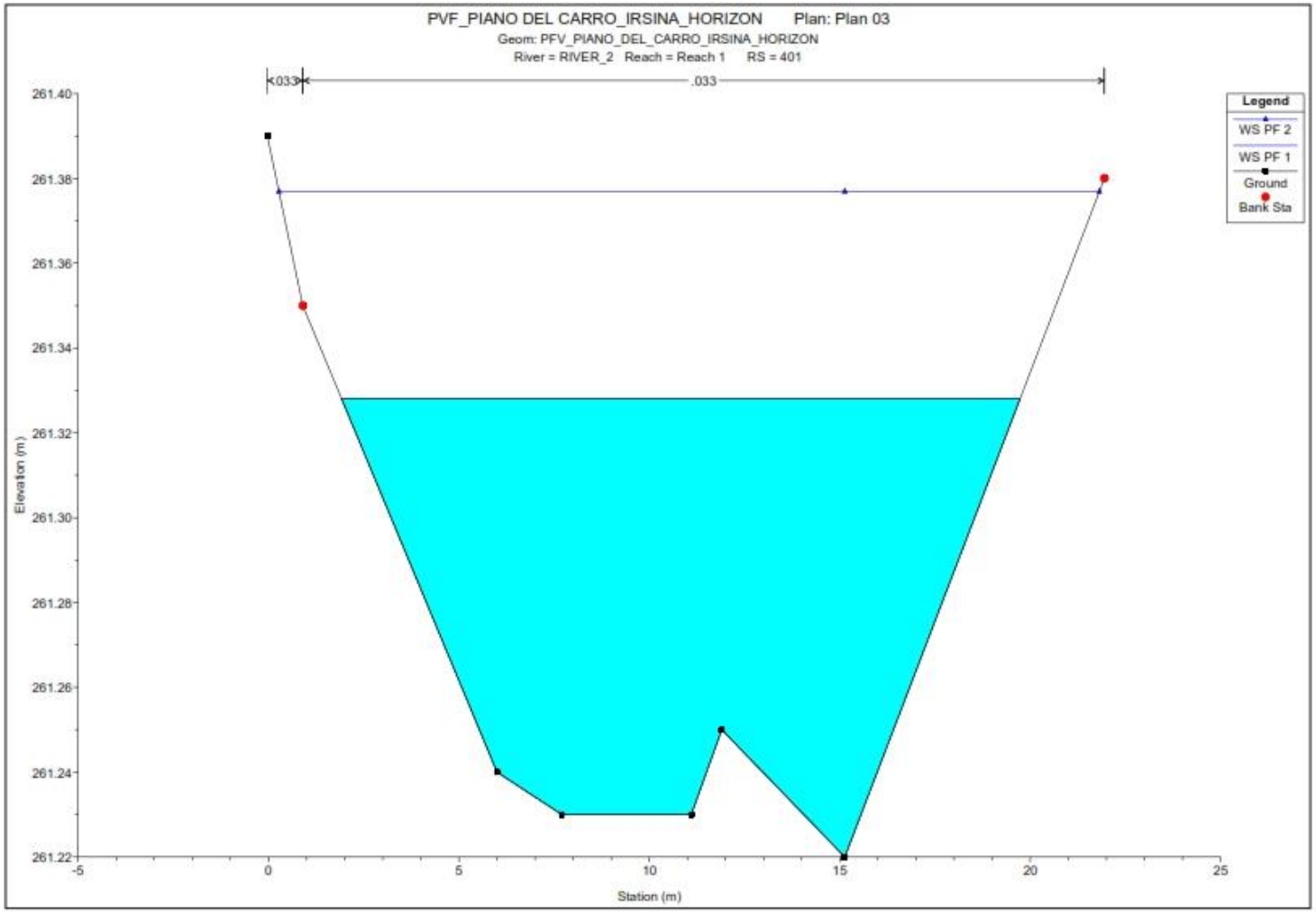

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = RIVER_2 Reach = Reach 1 RS = 275
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
260
259
258
257
256
255
0
5
10
15
20
25

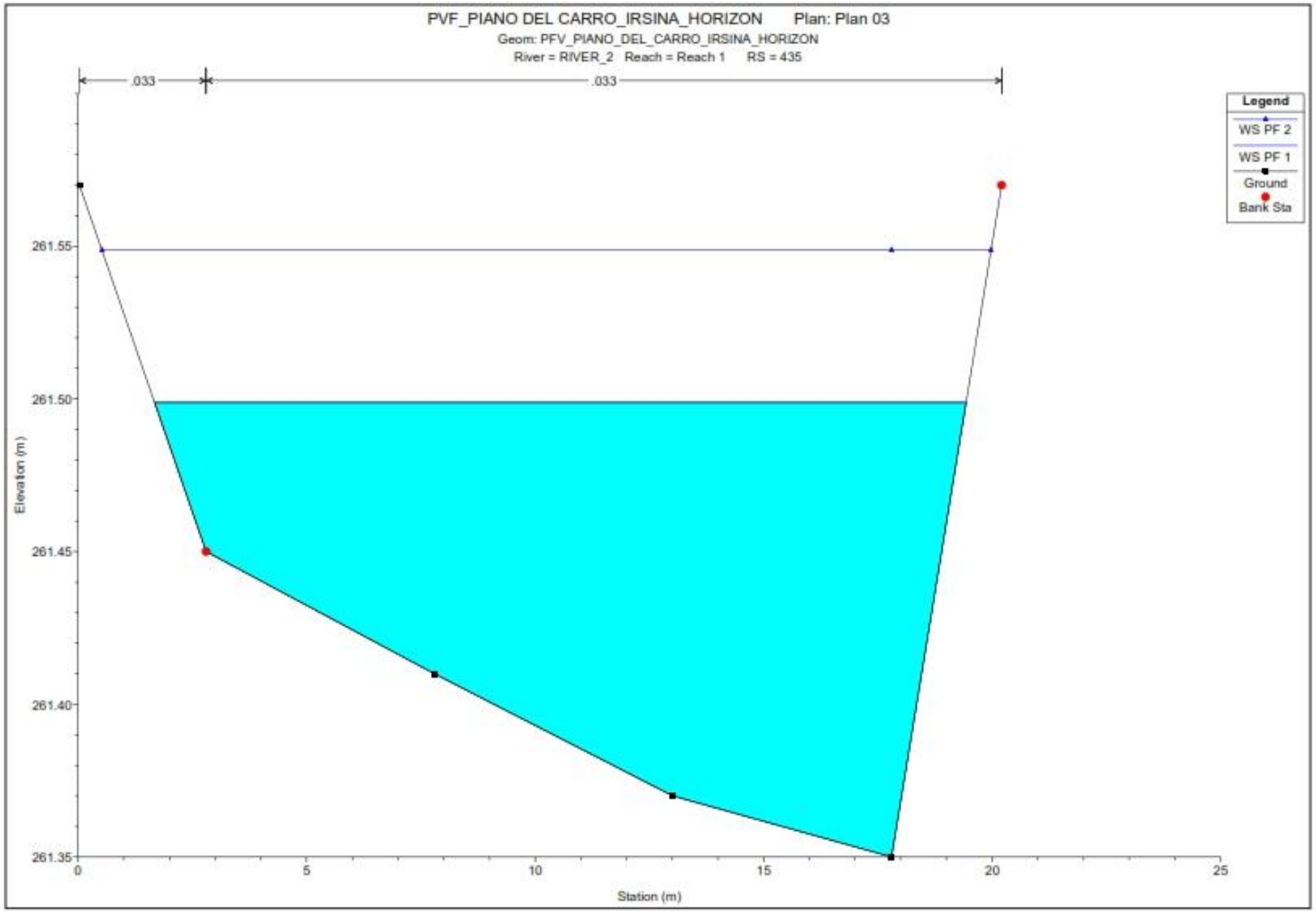

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = RIVER_2 Reach = Reach 1 RS = 318
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
262.0
261.5
261.0
260.5
260.0
259.5
259.0
0
5
10
15
20
25
30

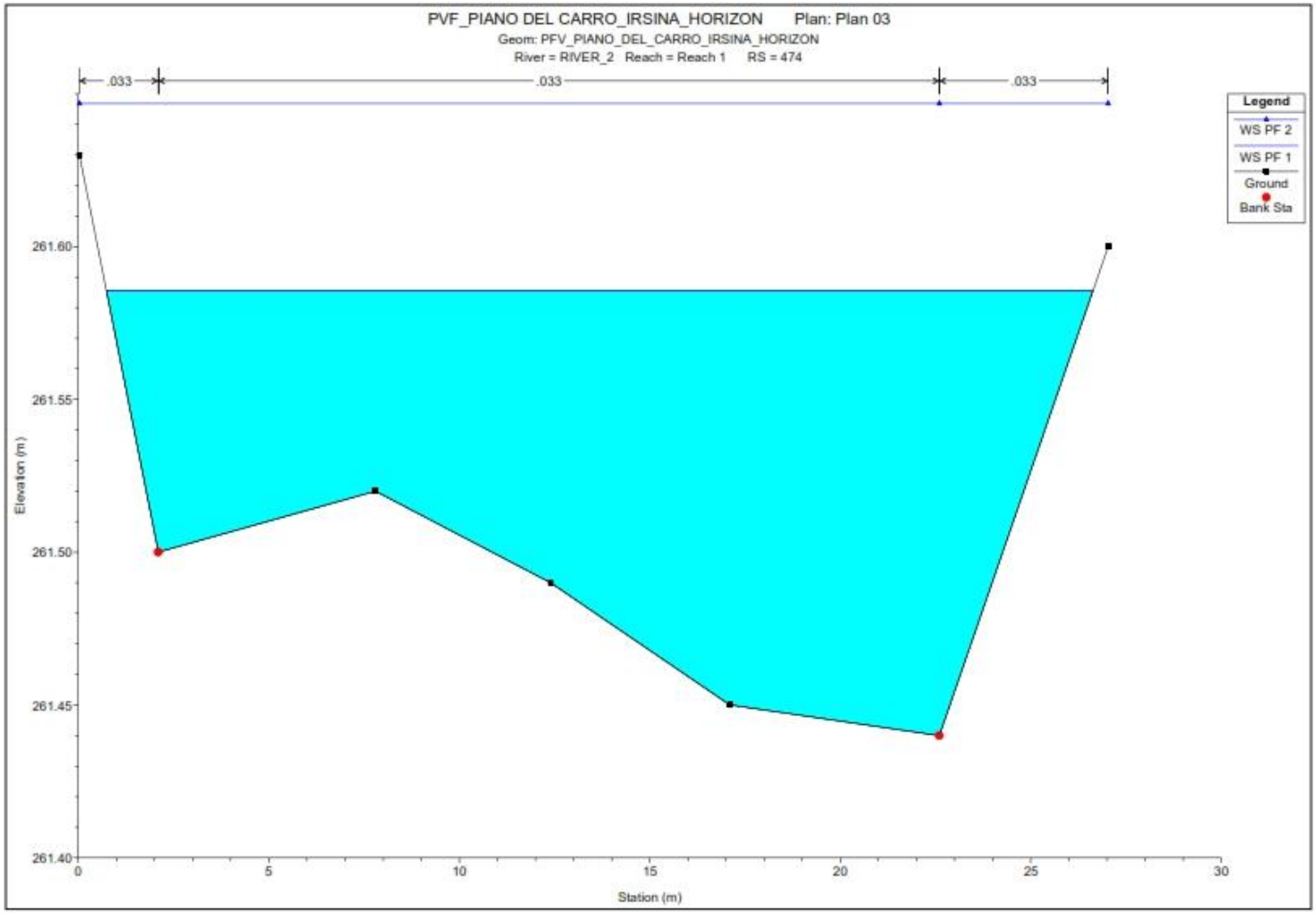

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = RIVER_2 Reach = Reach 1 RS = 350 Culv
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
265
264
263
262
261
260
259
0
5
10
15
20
25
30
Station (m)

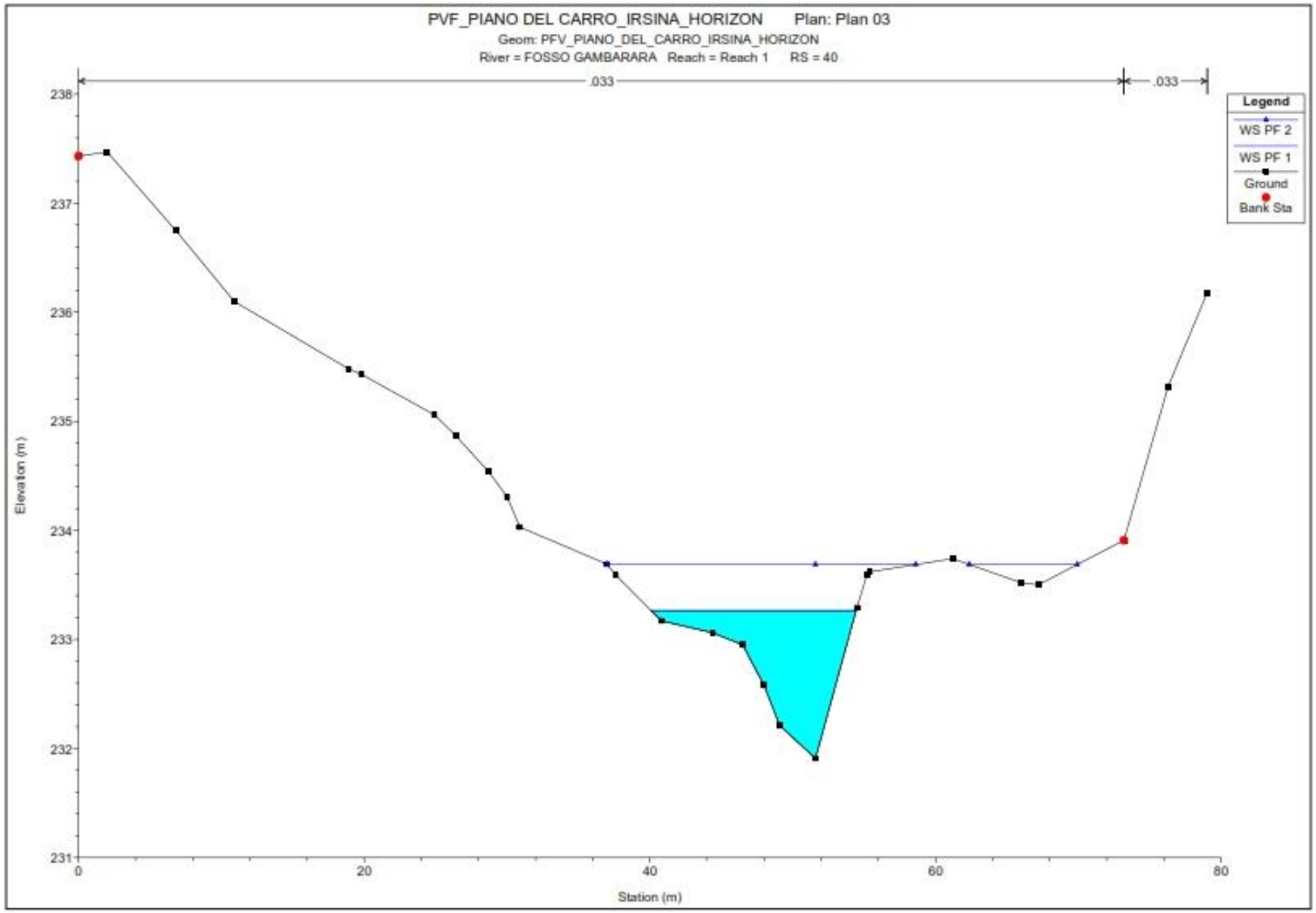

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = RIVER_2 Reach = Reach 1 RS = 350 Culv
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
265
264
263
262
261
260
259
0
2
4
6
8
10
12
14
16

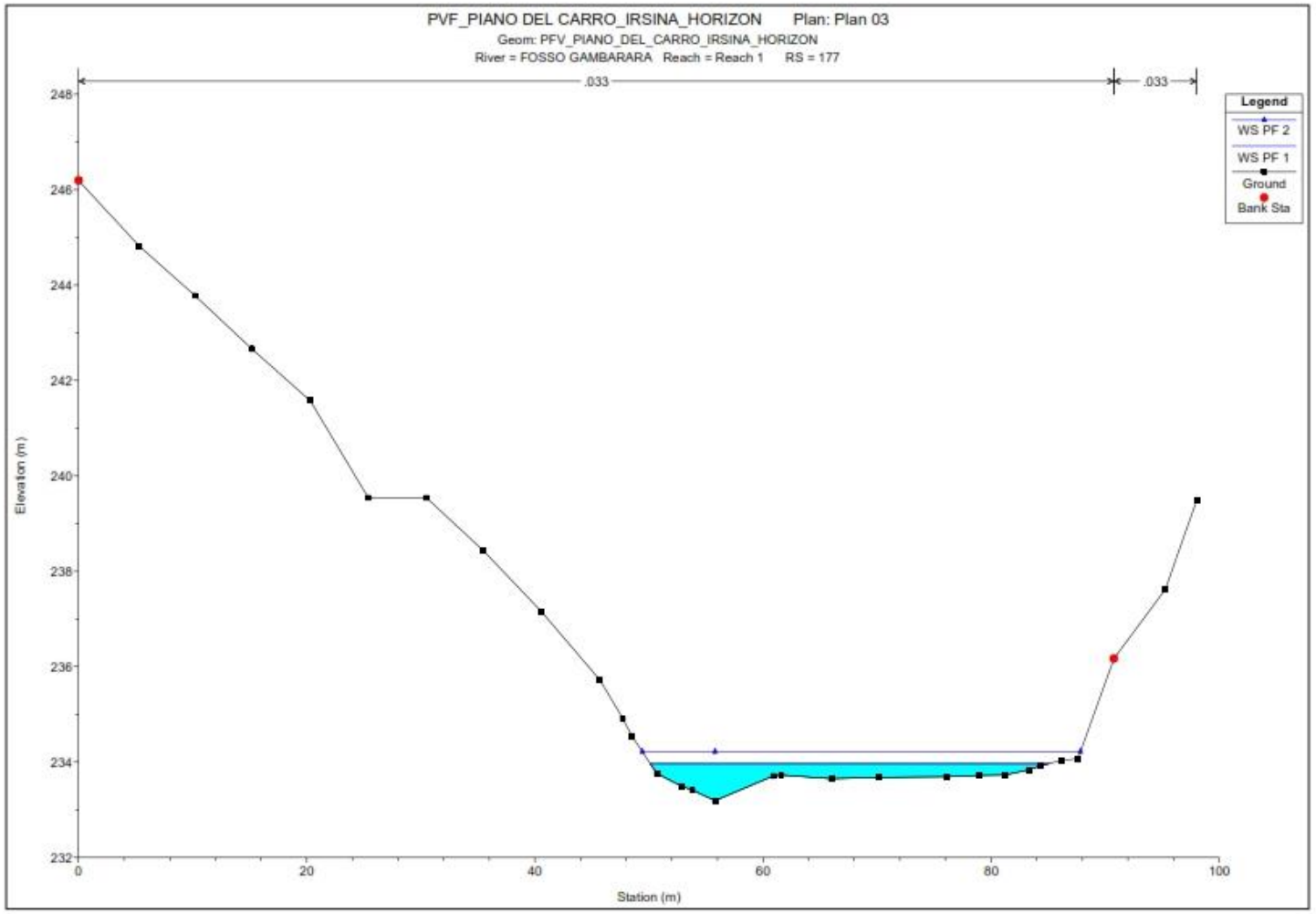

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = RIVER_2 Reach = Reach 1 RS = 371
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
261.4
261.2
261.0
260.8
260.6
260.4
260.2
260.0
259.8
0
2
4
6
8
10
12
14
16

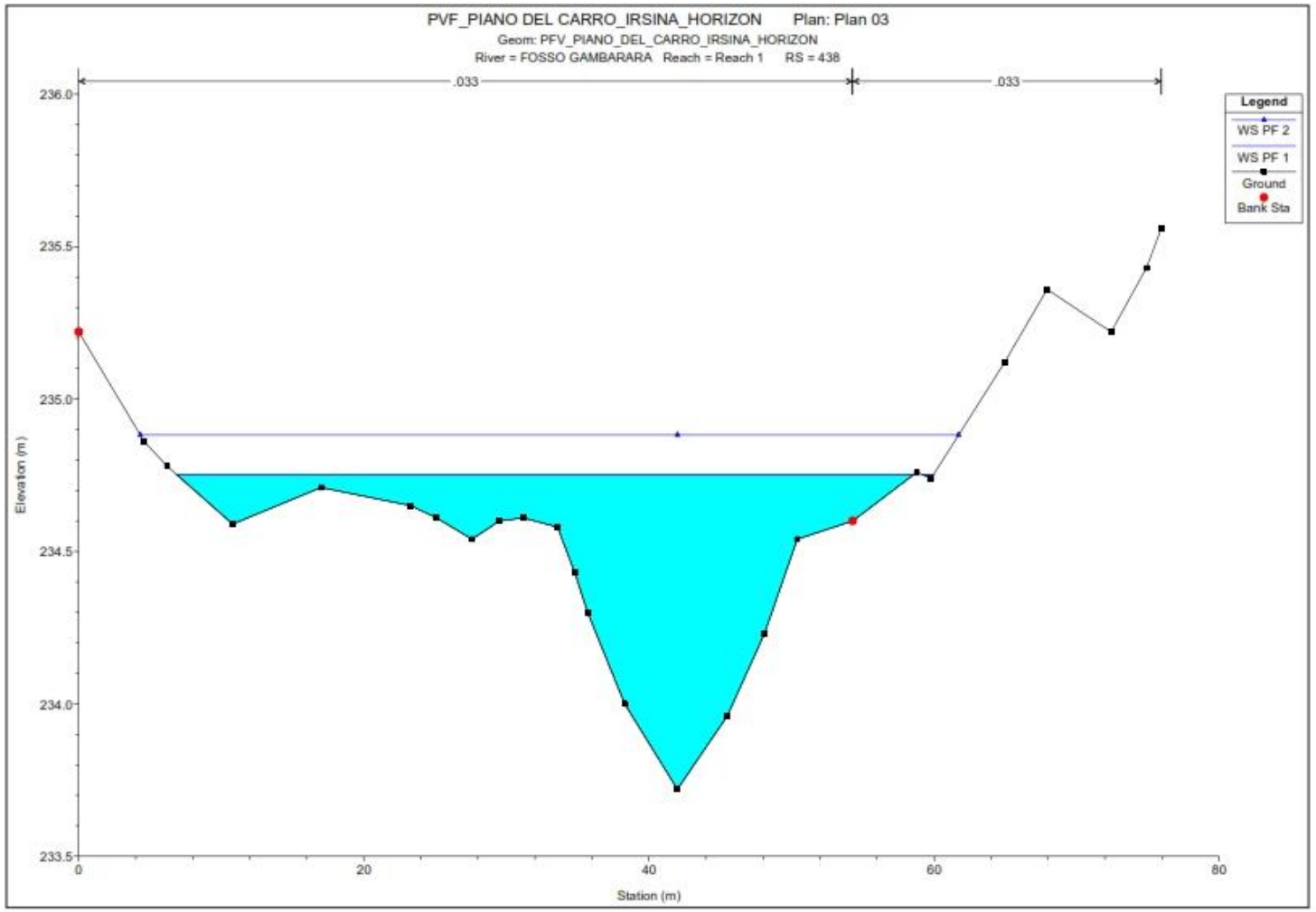

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = RIVER_2 Reach = Reach 1 RS = 401
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
261.40
261.38
261.36
261.34
261.32
261.30
261.28
261.26
261.24
261.22
-5
0
5
10
15
20
25
Station (m)

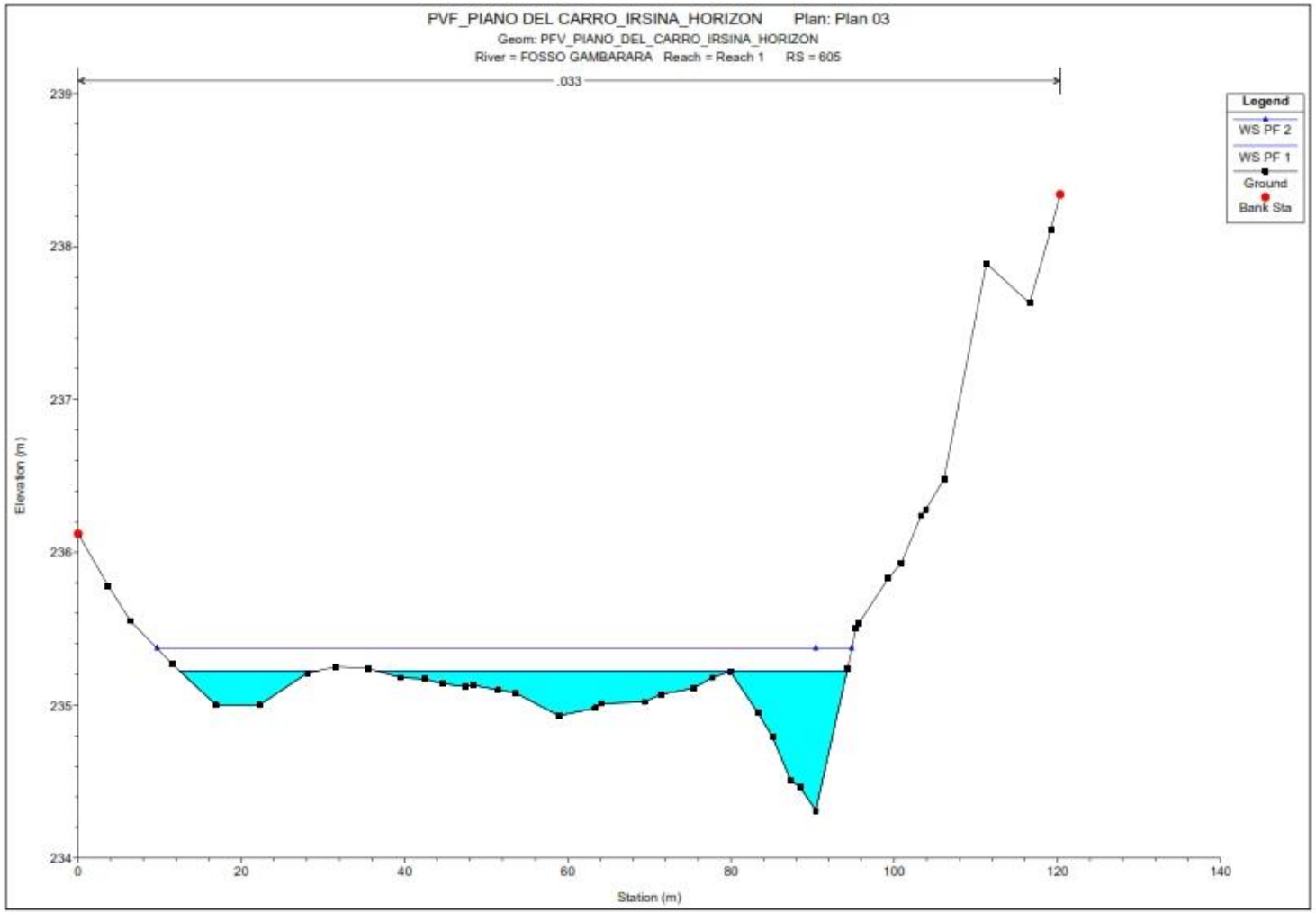

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = RIVER_2 Reach = Reach 1 RS = 435
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
261.55
261.50
261.45
261.40
261.35
Elevation (m)
0
5
10
15
20
25
Station (m)

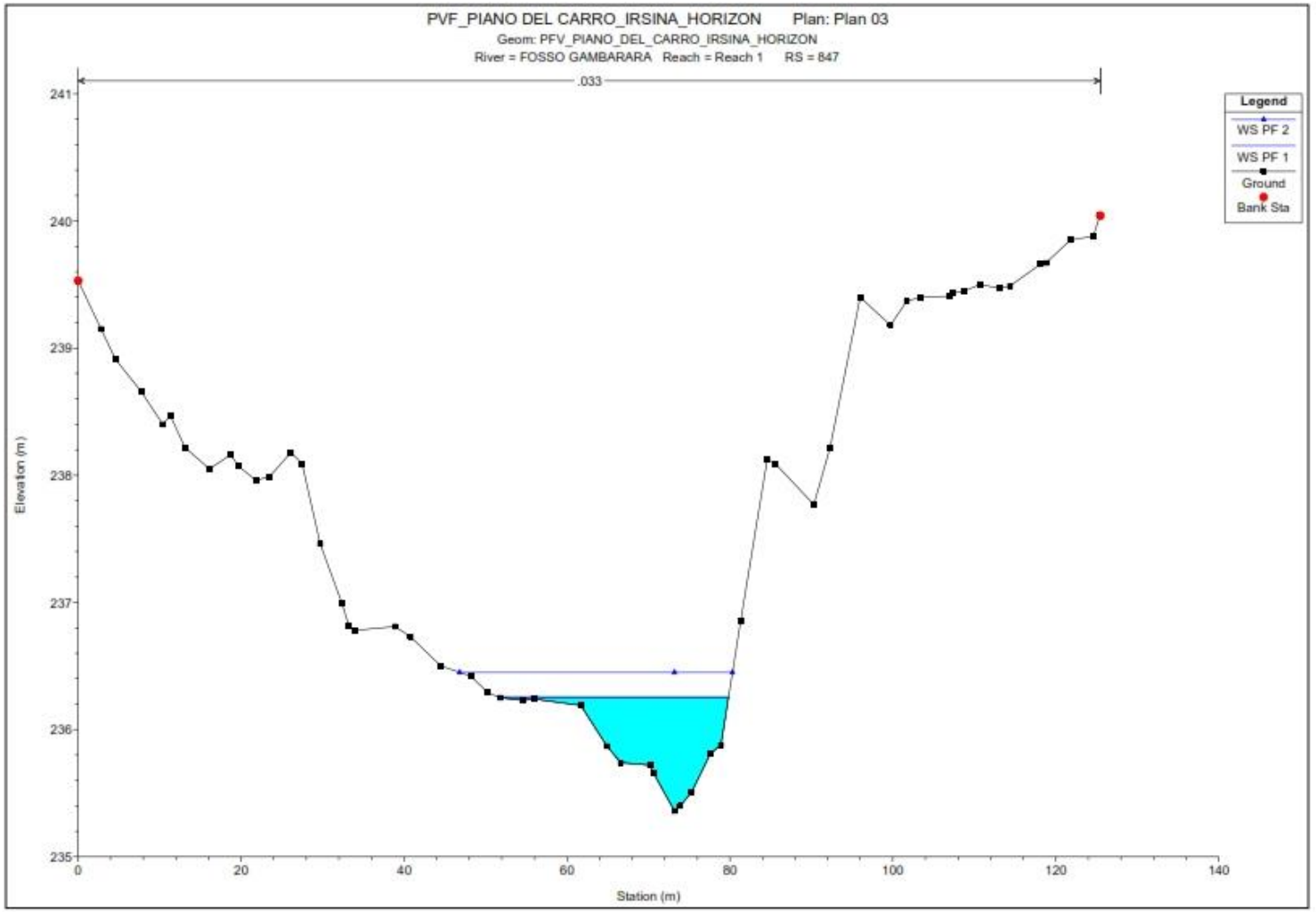

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = RIVER_2 Reach = Reach 1 RS = 474
.033
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
261.60
261.55
261.50
261.45
261.40
Elevation (m)
0
5
10
15
20
25
30
Station (m)

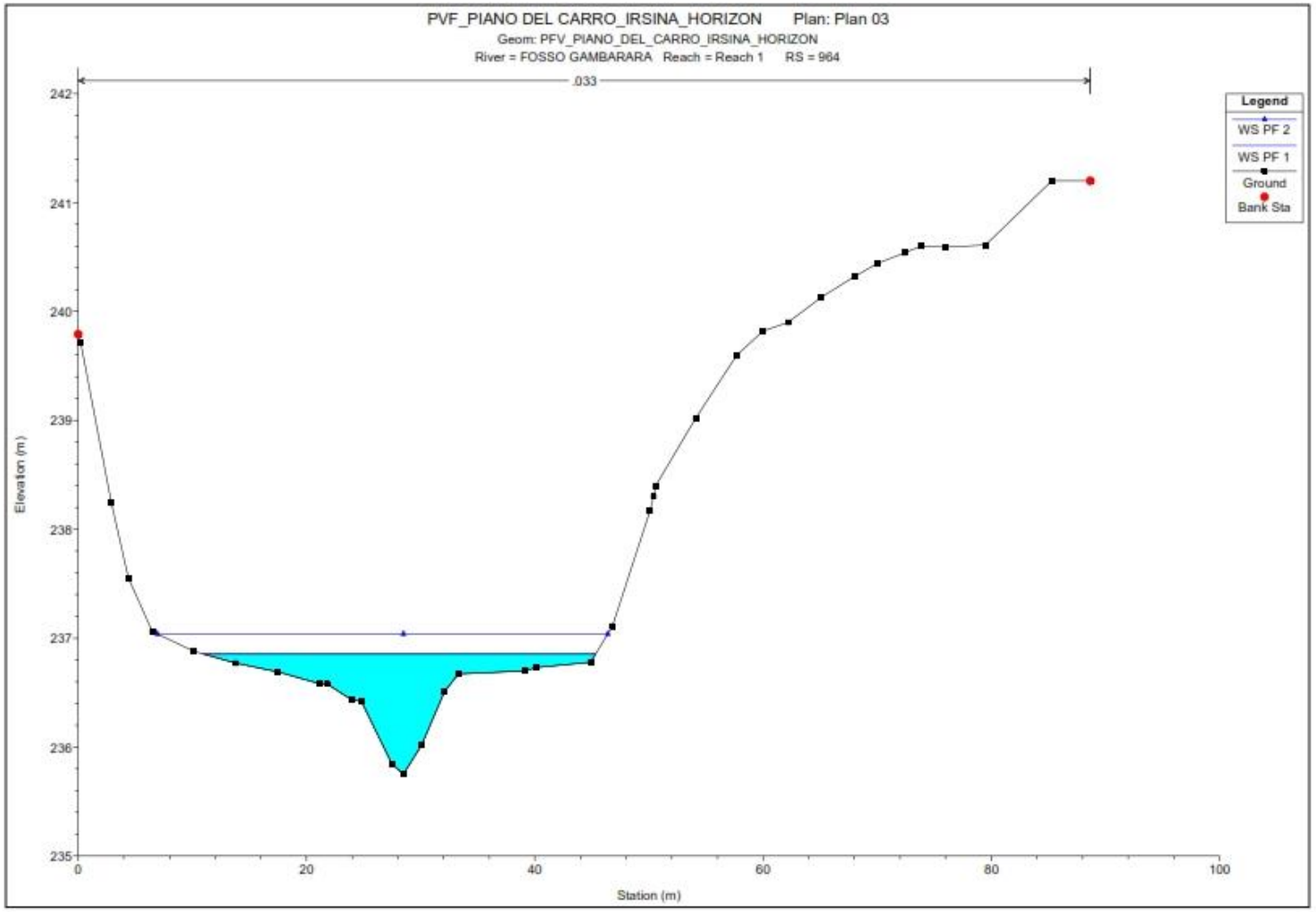

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = FOSSO GAMBARARA Reach = Reach 1 RS = 40
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
231
232
233
234
235
236
237
238
0
20
40
60
80

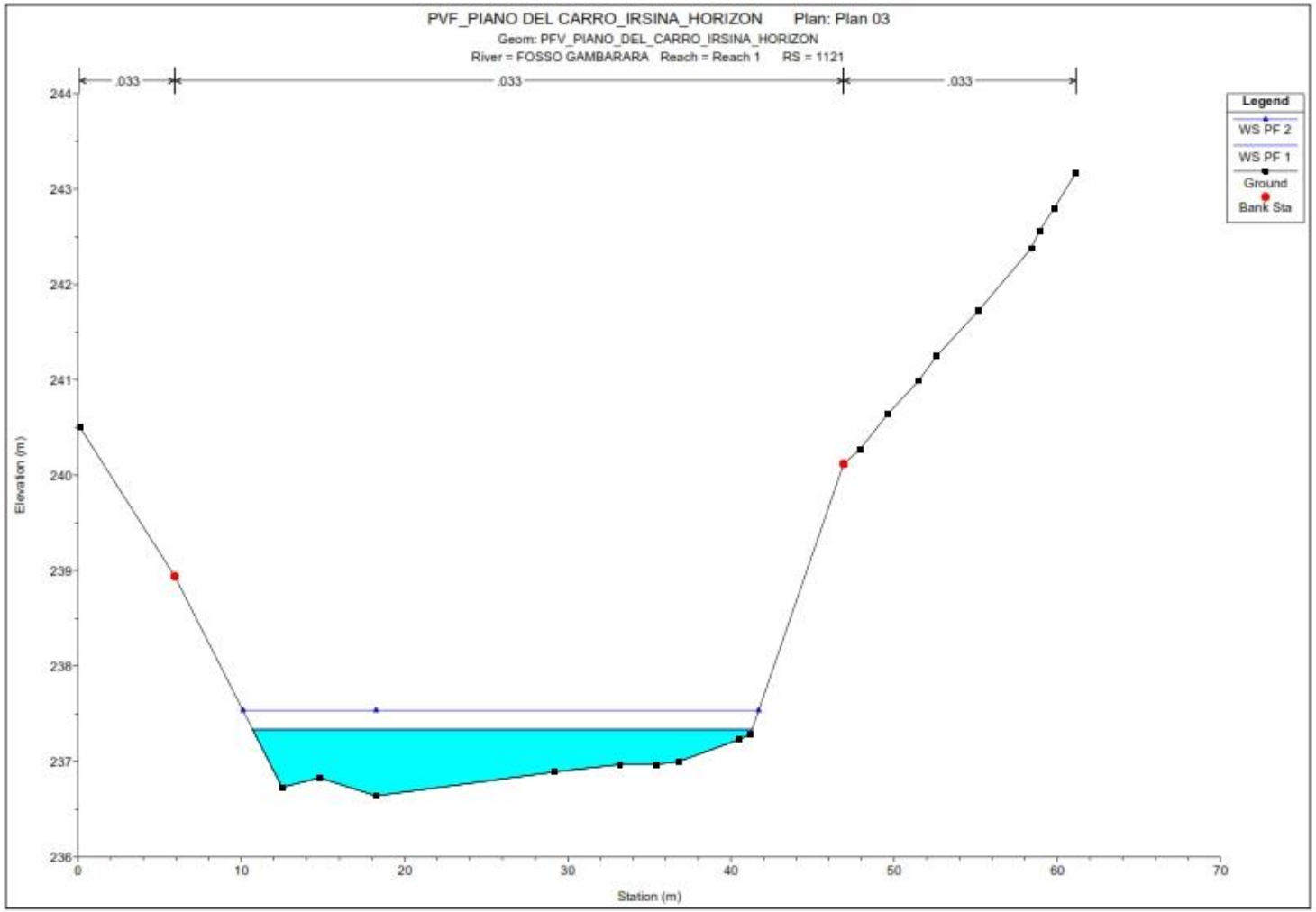

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = FOSSO GAMBARARA Reach = Reach 1 RS = 177
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
248
246
244
242
240
238
236
234
232
0
20
40
60
80
100
Station (m)

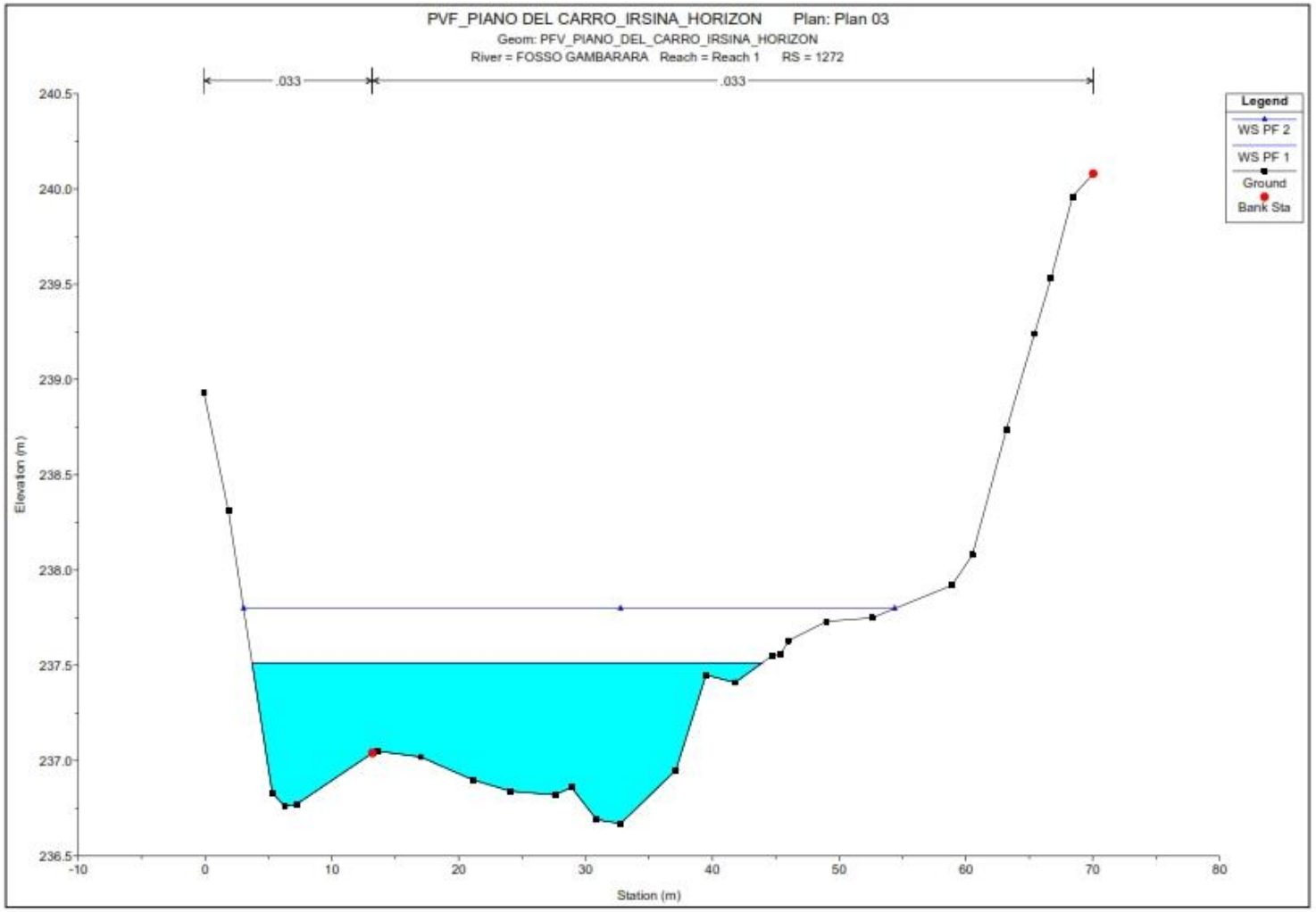

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = FOSSO GAMBARARA Reach = Reach 1 RS = 438
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
236.0
235.5
235.0
234.5
234.0
233.5
Elevation (m)
0
20
40
60
80
Station (m)

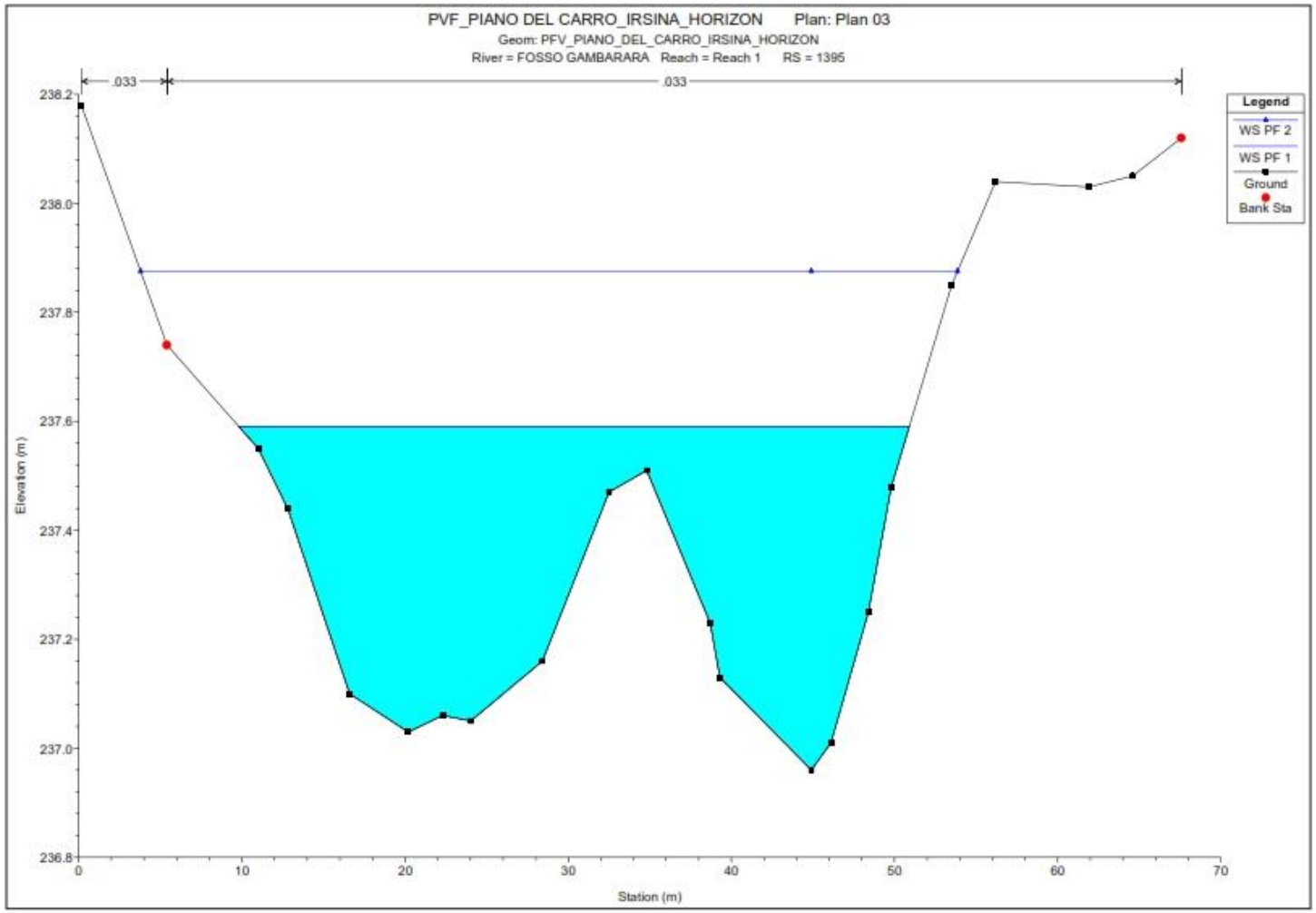

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = FOSSO GAMBARARA Reach = Reach 1 RS = 605
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
239
238
237
236
235
234
0
20
40
60
80
100
120
140

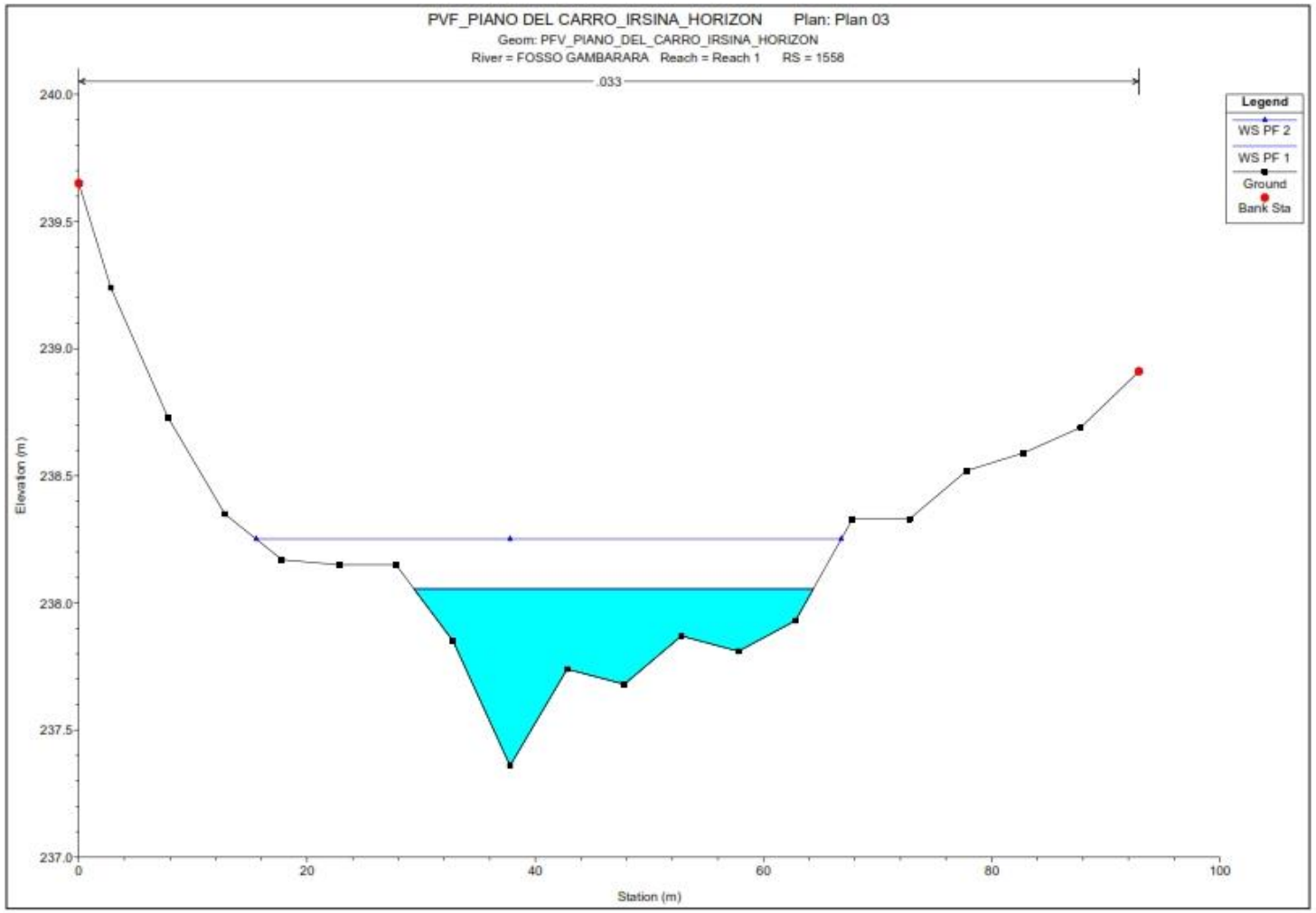

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = FOSSO GAMBARARA Reach = Reach 1 RS = 847
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
241
240
239
238
237
236
235
0
20
40
60
80
100
120
140

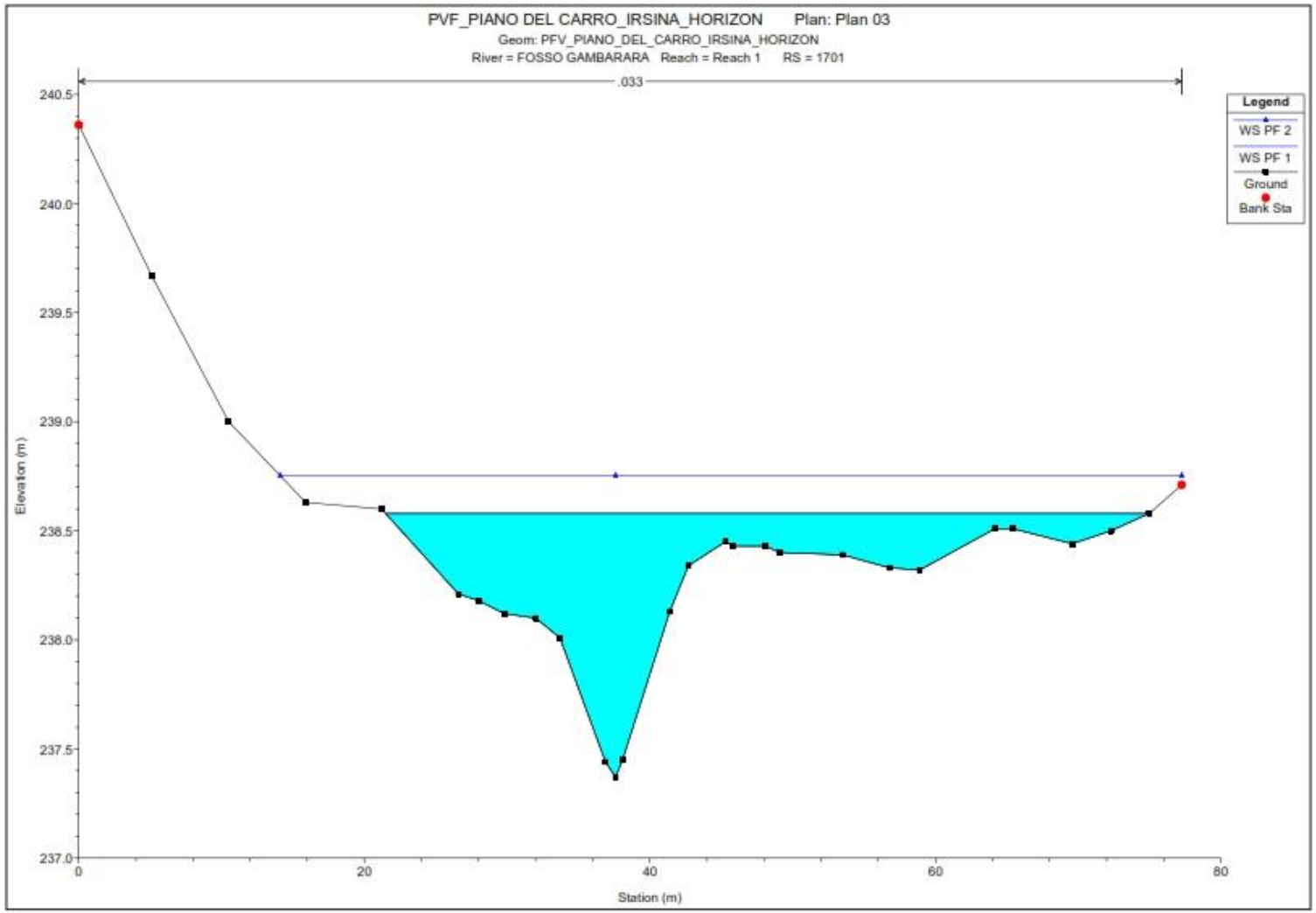

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = FOSSO GAMBARARA Reach = Reach 1 RS = 964
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
242
241
240
239
238
237
236
235
0
20
40
60
80
100

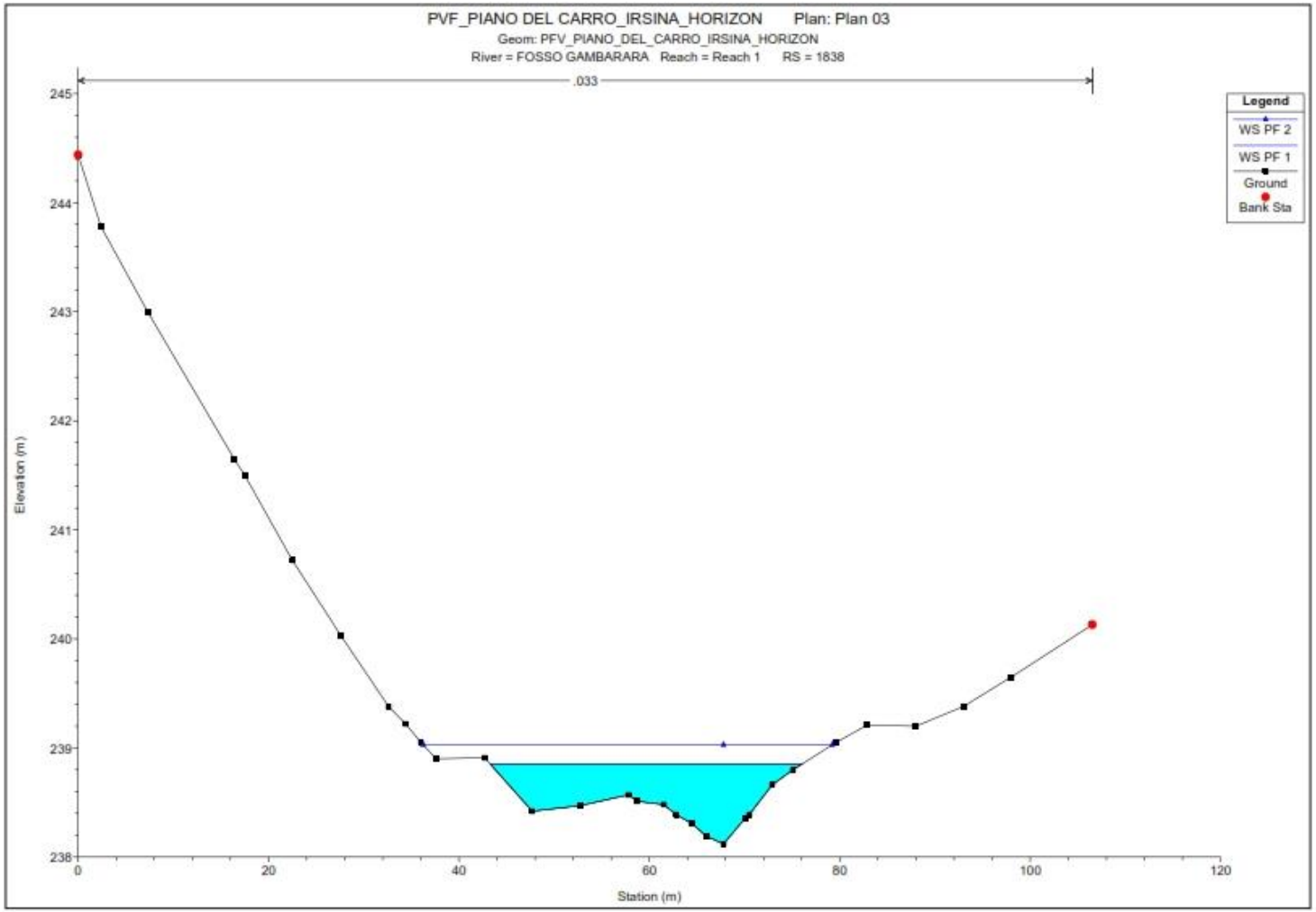

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = FOSSO GAMBARARA Reach = Reach 1 RS = 1121
.033
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
244
243
242
241
240
239
238
237
236
0
10
20
30
40
50
60
70

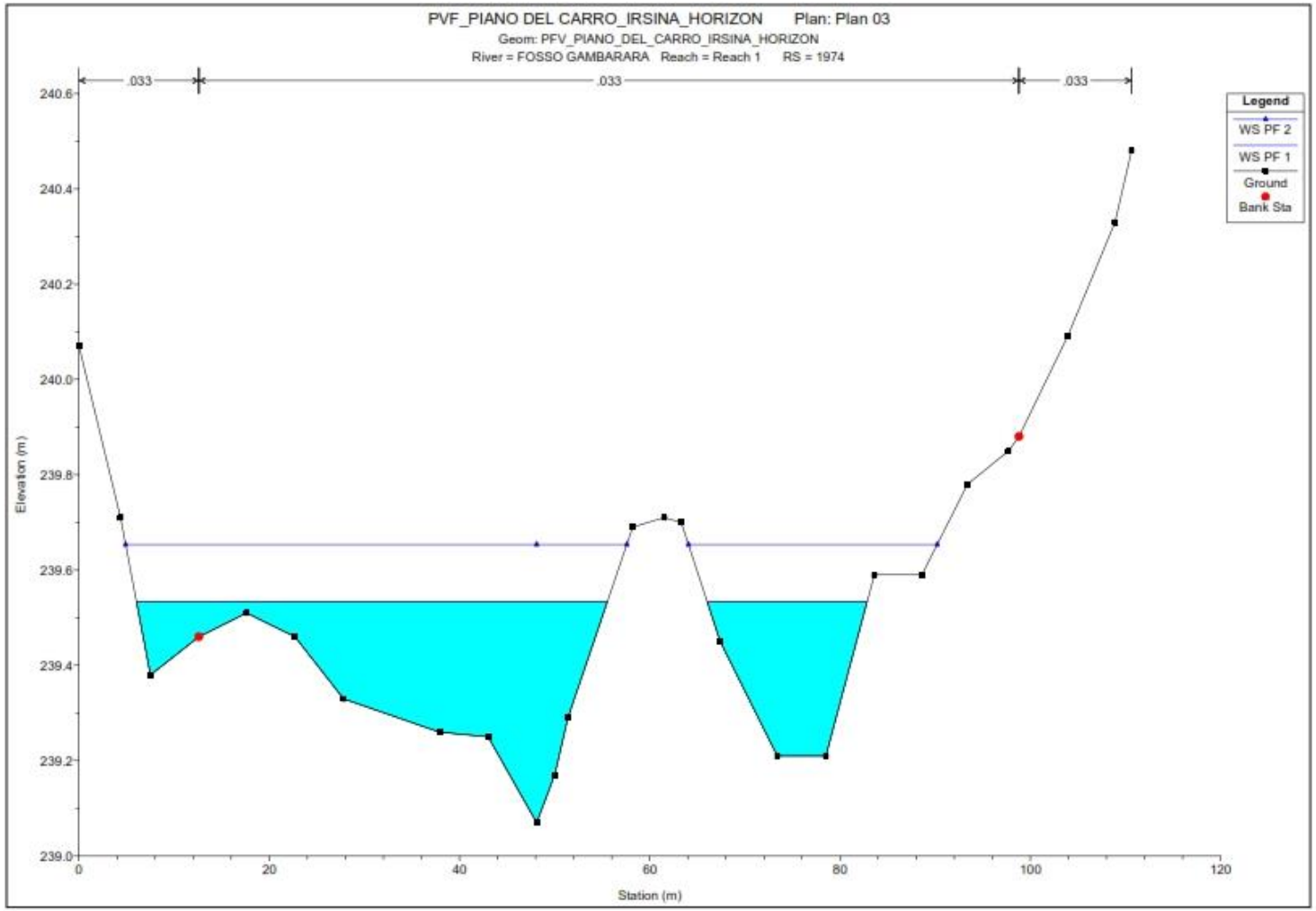

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = FOSSO GAMBARARA Reach = Reach 1 RS = 1272
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
240.5
240.0
239.5
239.0
238.5
238.0
237.5
237.0
236.5
-10
0
10
20
30
40
50
60
70
80
Station (m)

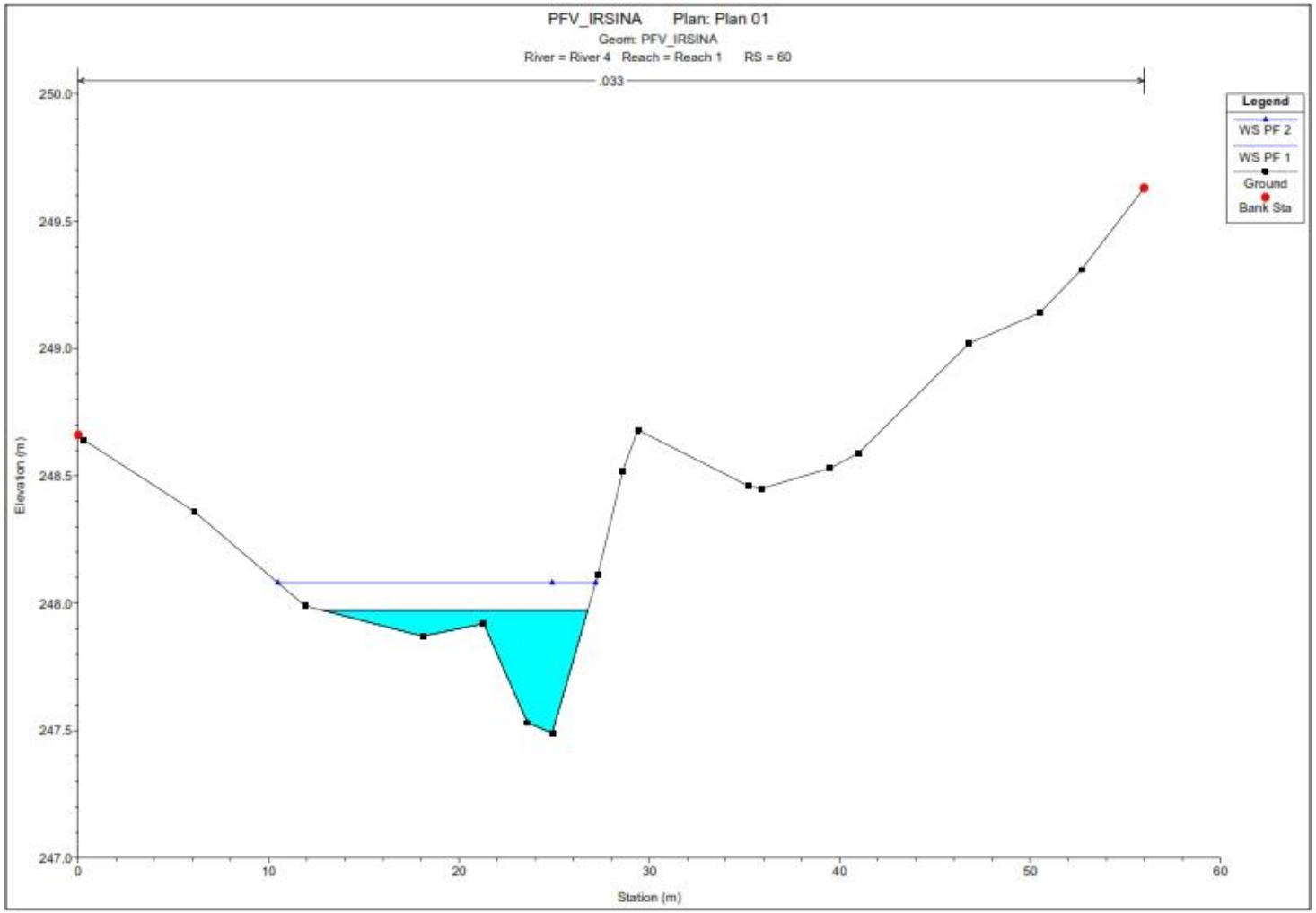

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = FOSSO GAMBARARA Reach = Reach 1 RS = 1395
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
238.2
238.0
237.8
237.6
237.4
237.2
237.0
236.8
0
10
20
30
40
50
60
70

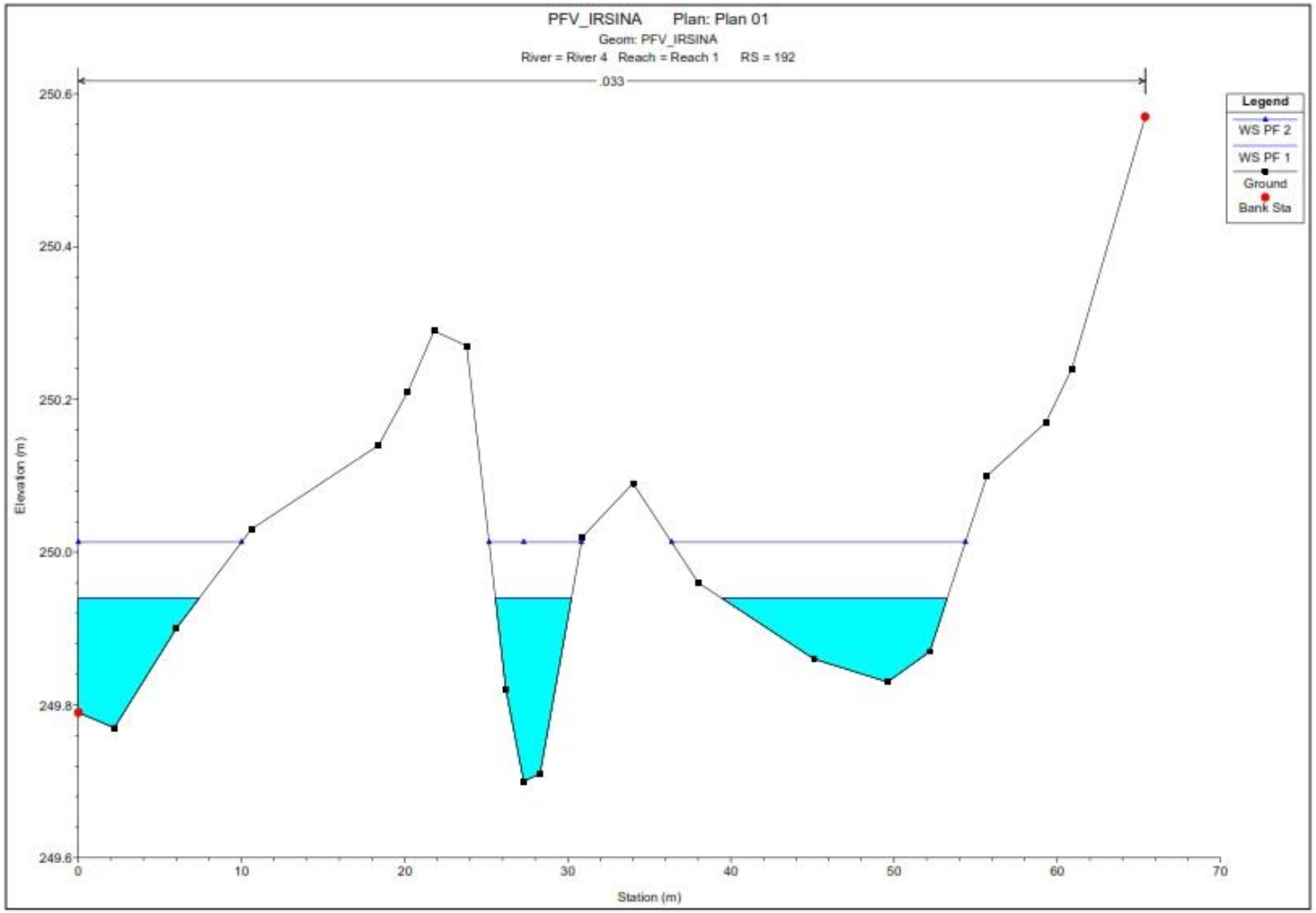

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = FOSSO GAMBARARA Reach = Reach 1 RS = 1558
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
240.0
239.5
239.0
238.5
238.0
237.5
237.0
0
20
40
60
80
100
Station (m)

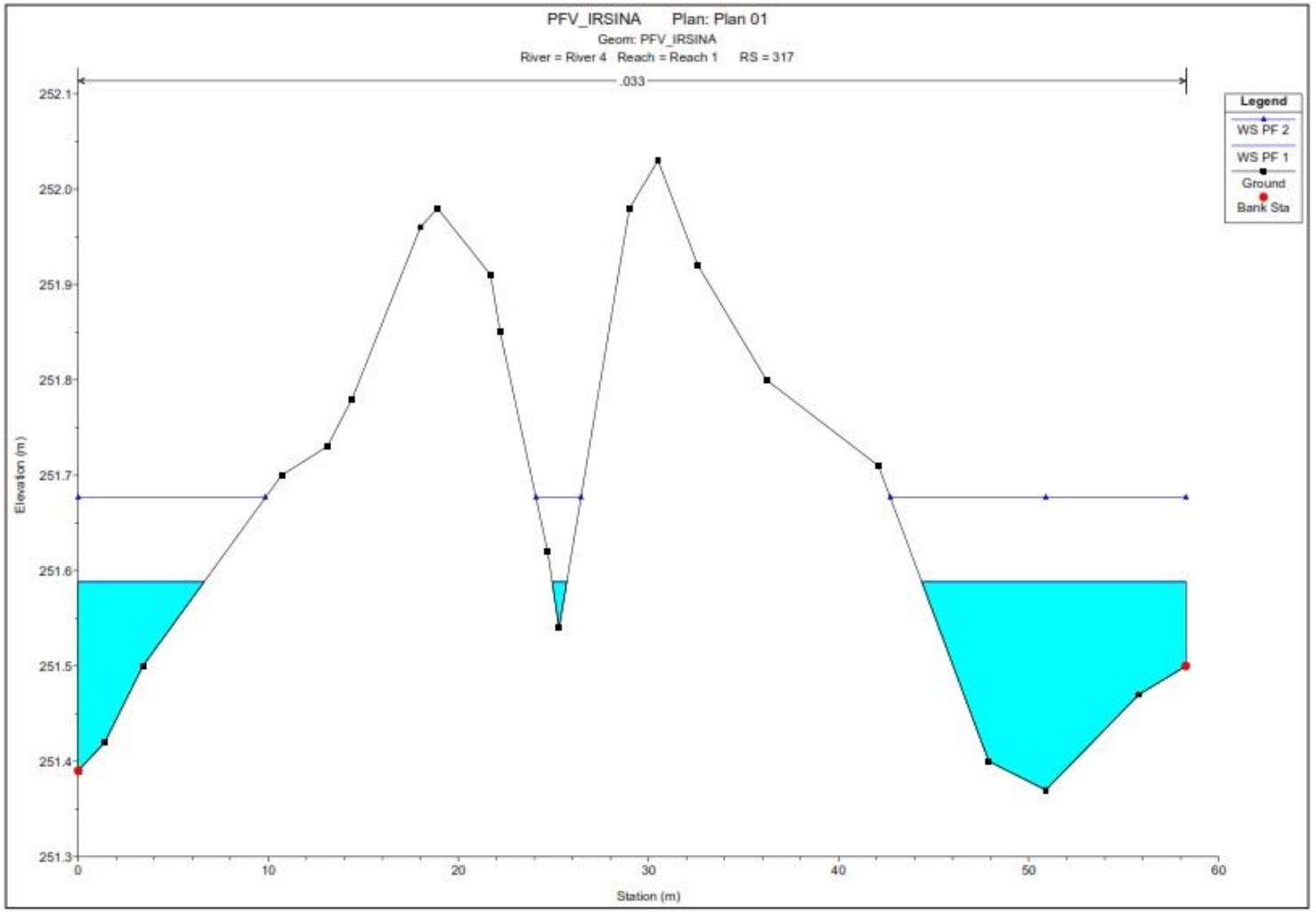

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = FOSSO GAMBARARA Reach = Reach 1 RS = 1701
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
240.5
240.0
239.5
239.0
238.5
238.0
237.5
237.0
0
20
40
60
80
Station (m)

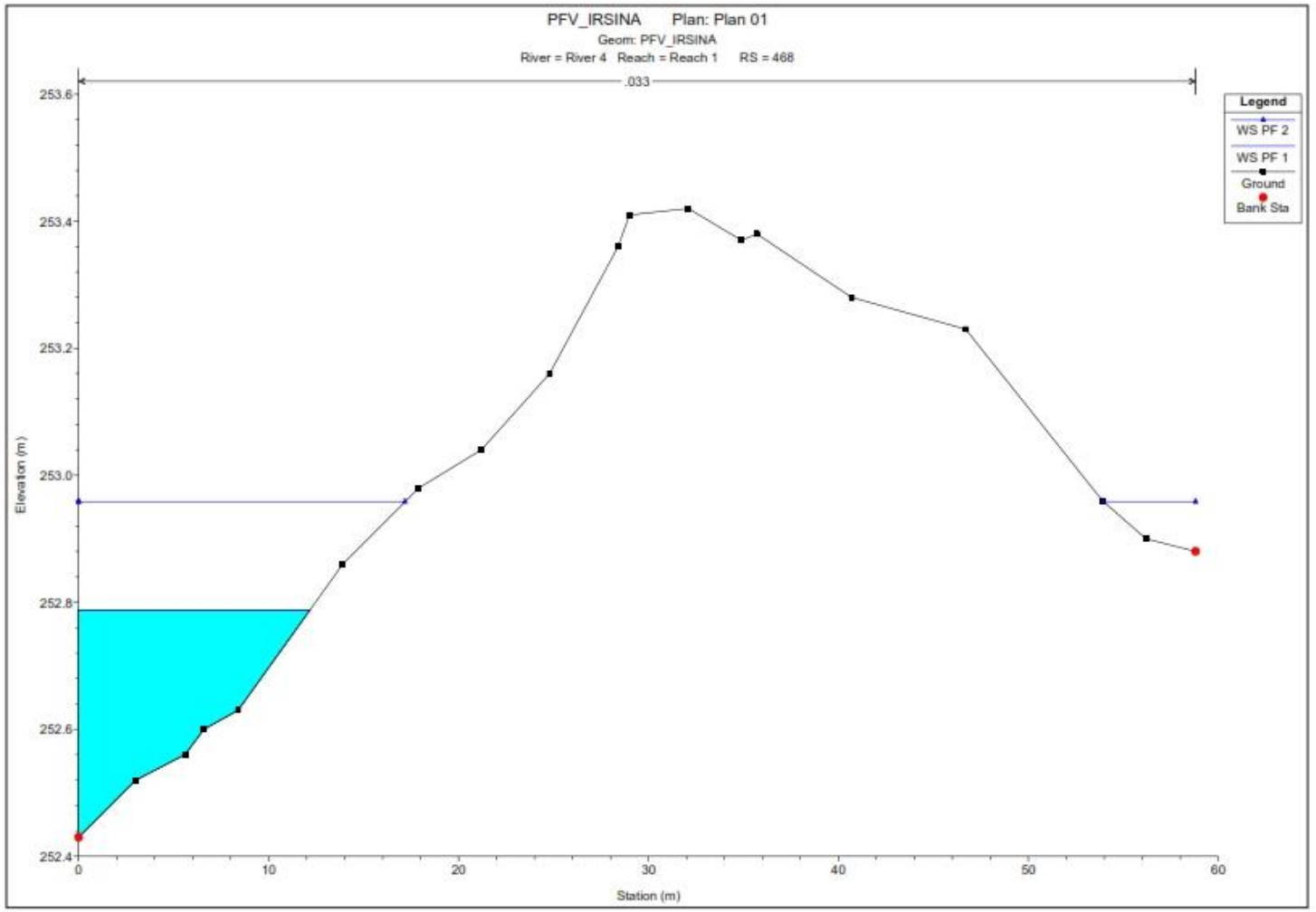

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = FOSSO GAMBARARA Reach = Reach 1 RS = 1838
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
245
244
243
242
241
240
239
238
0
20
40
60
80
100
120

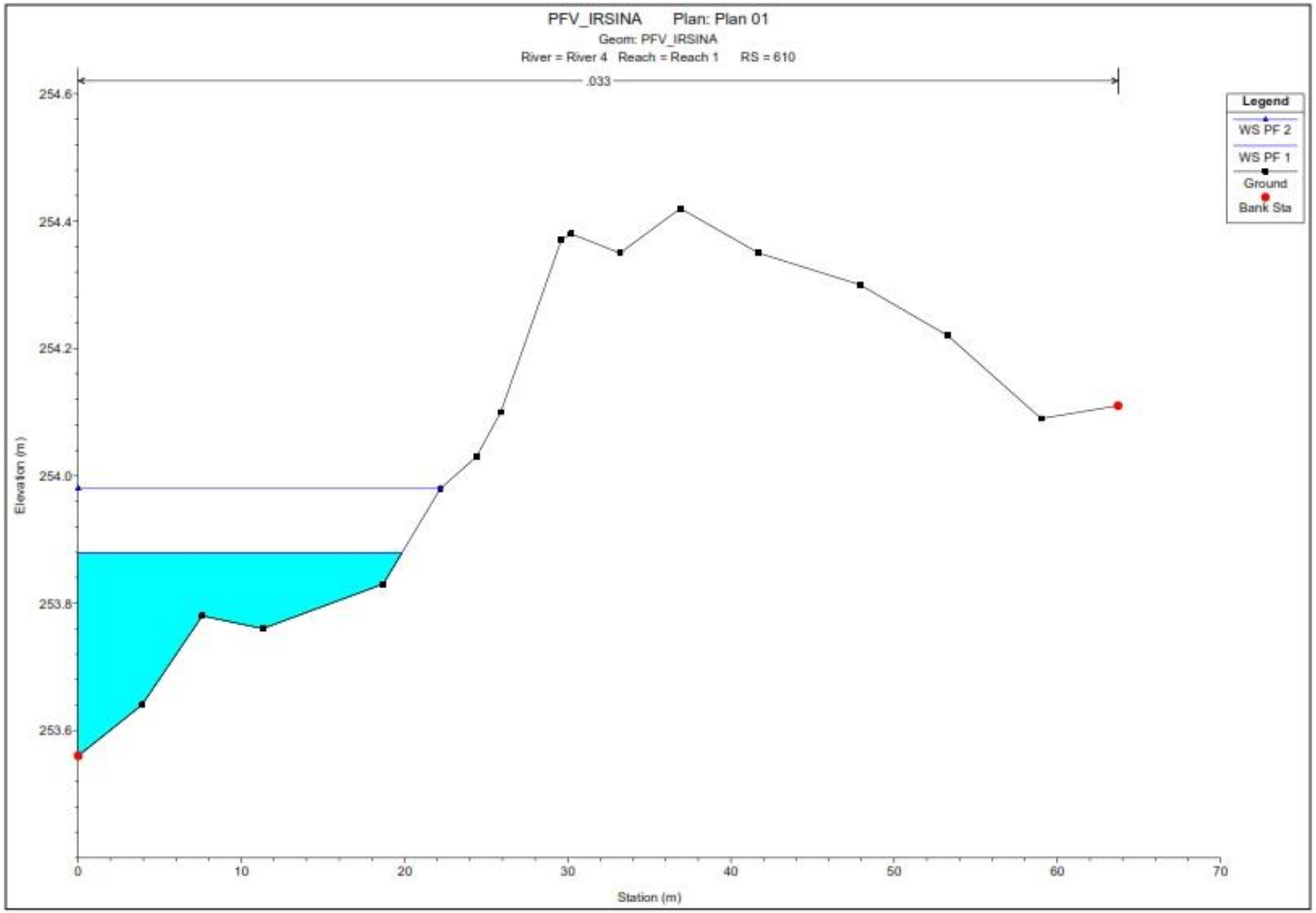

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River = FOSSO GAMBARARA Reach = Reach 1 RS = 1974
.033
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
240.6
240.4
240.2
240.0
239.8
239.6
239.4
239.2
239.0
0
20
40
60
80
100
120
Station (m)

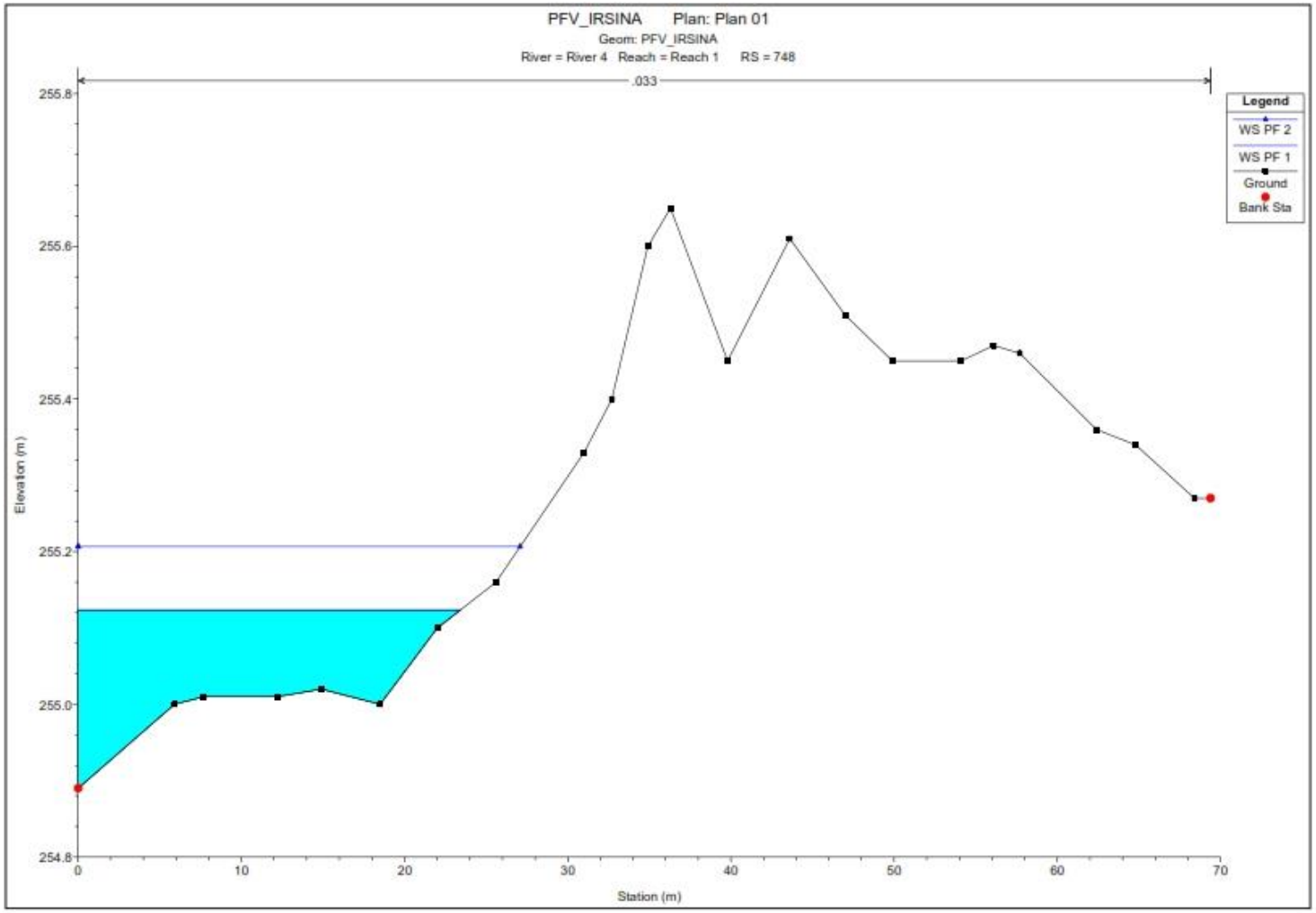

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 4 Reach = Reach 1 RS = 60
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
250.0
249.5
249.0
248.5
248.0
247.5
247.0
0
10
20
30
40
50
60

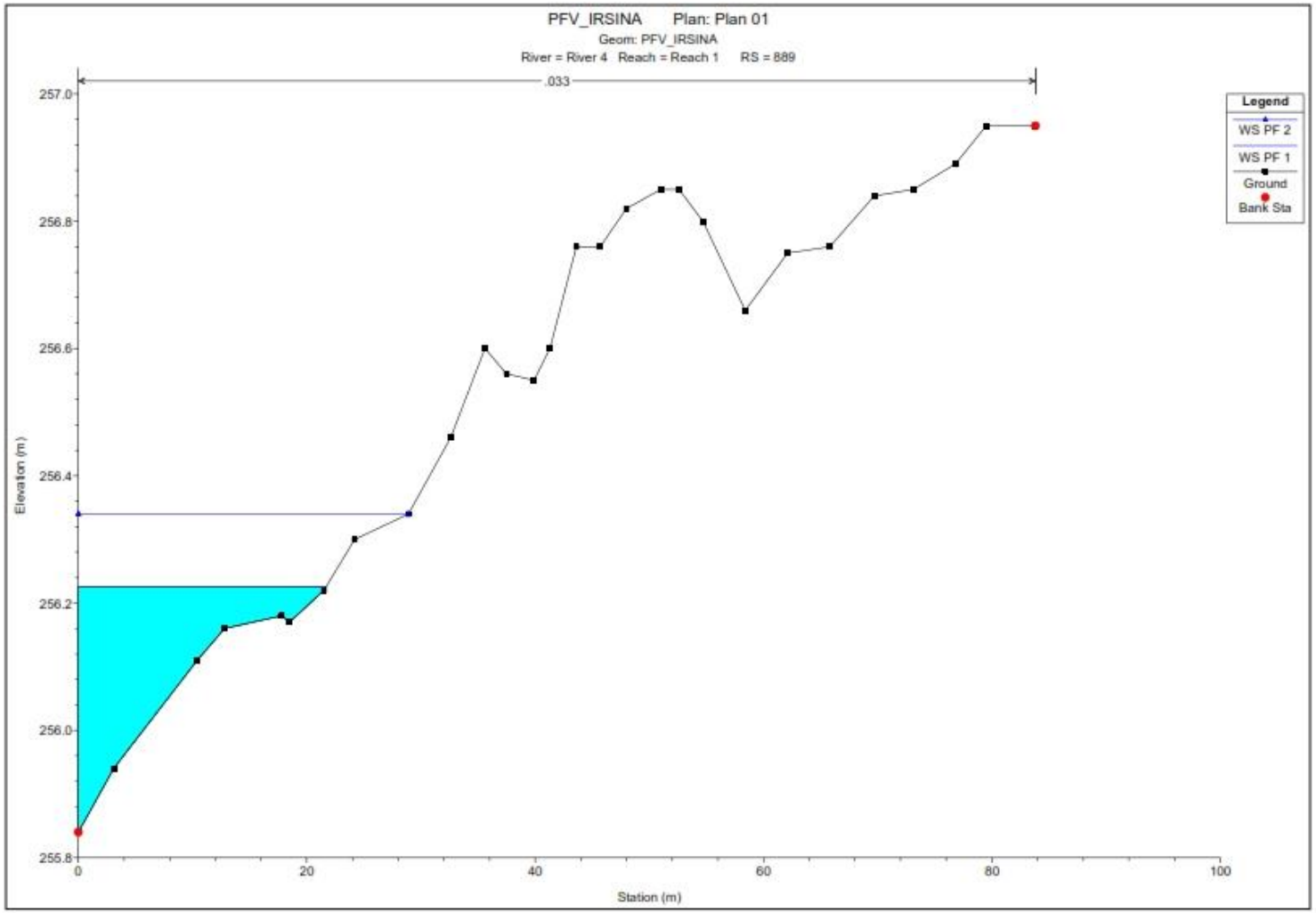

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 4 Reach = Reach 1 RS = 192
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
250.6
250.4
250.2
250.0
249.8
249.6
0
10
20
30
40
50
60
70

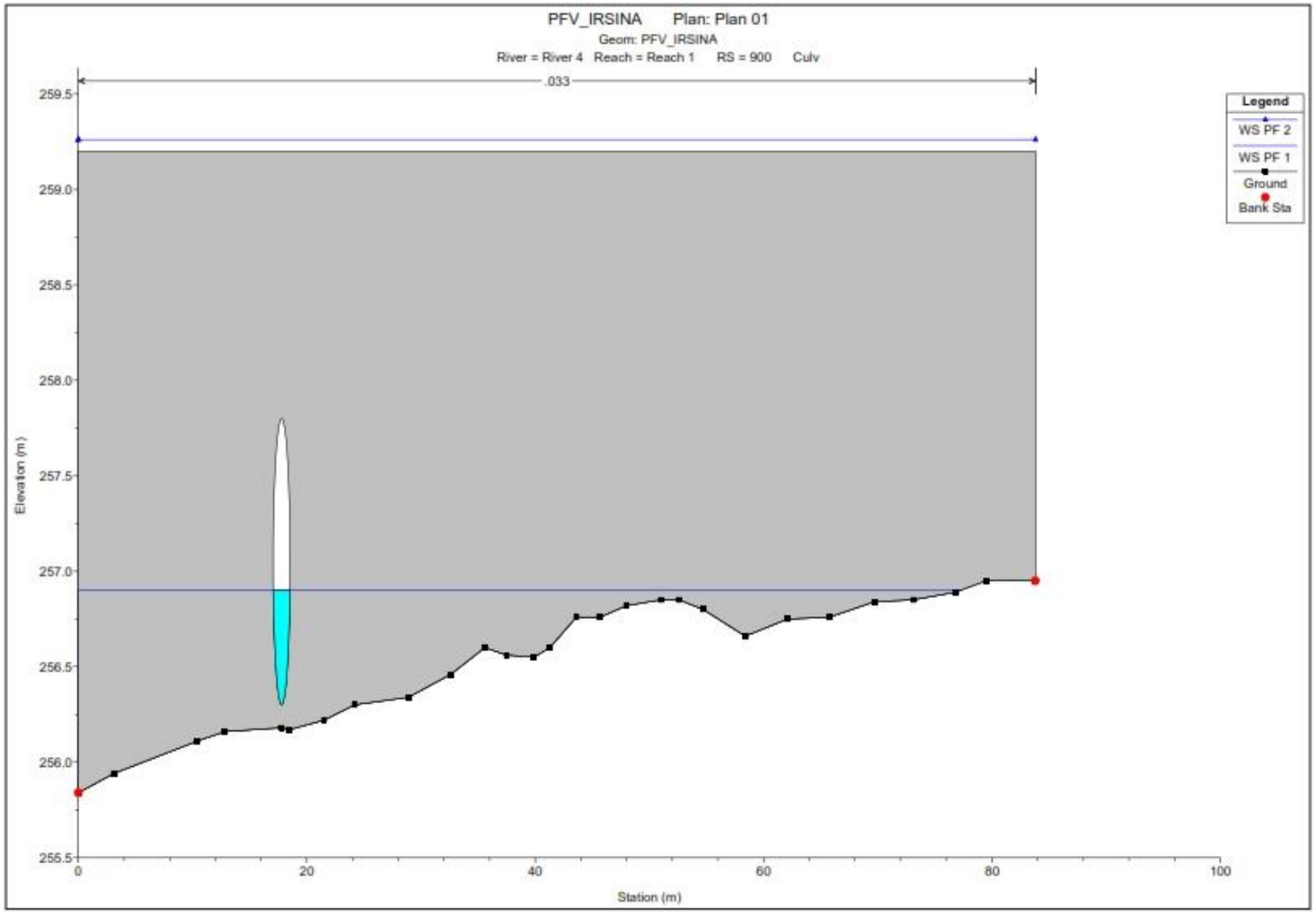

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 4 Reach = Reach 1 RS = 317
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
252.1
252.0
251.9
251.8
251.7
251.6
251.5
251.4
251.3
0
10
20
30
40
50
60

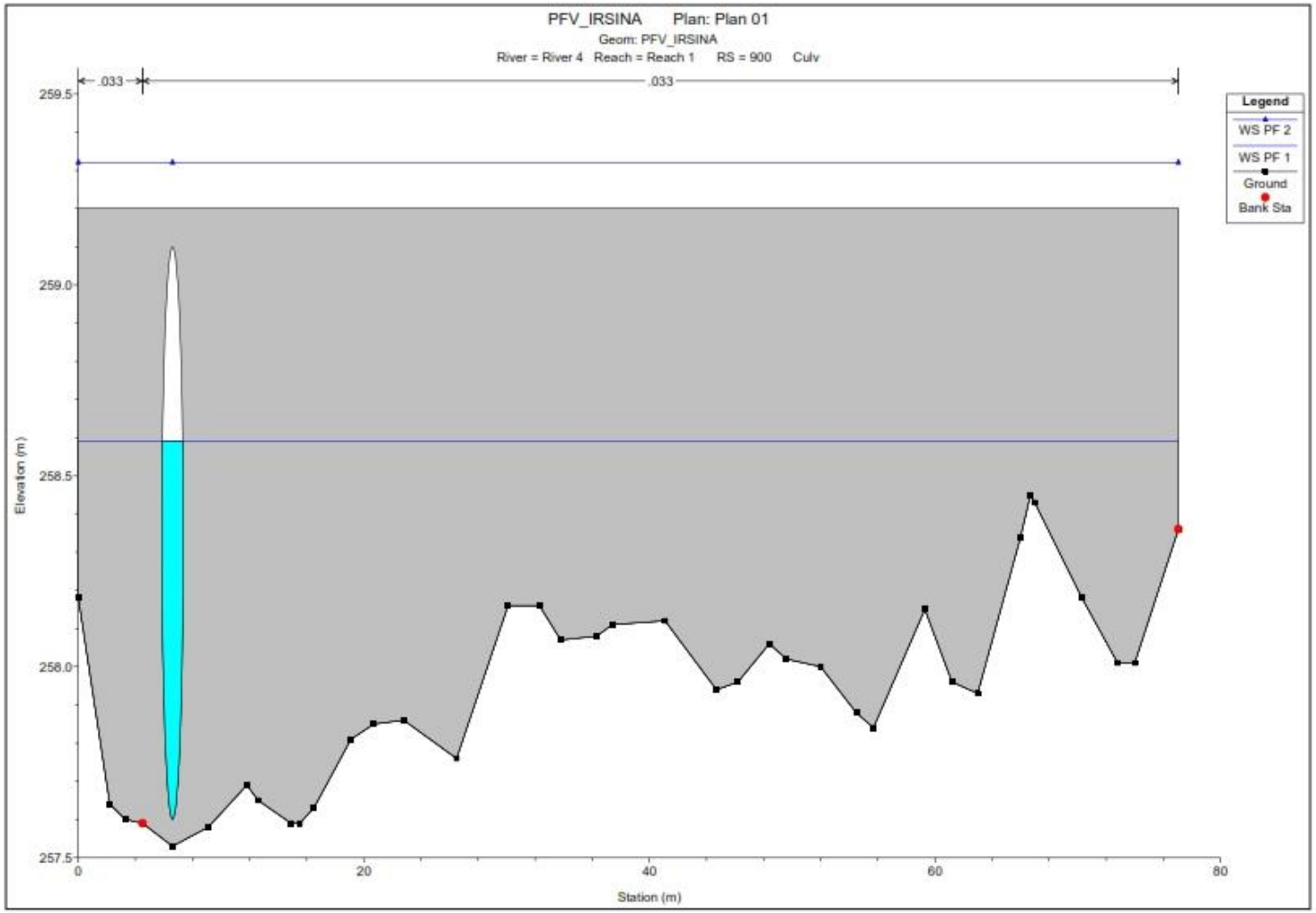

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 4 Reach = Reach 1 RS = 468
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
253.6
253.4
253.2
253.0
252.8
252.6
252.4
0
10
20
30
40
50
60
Station (m)

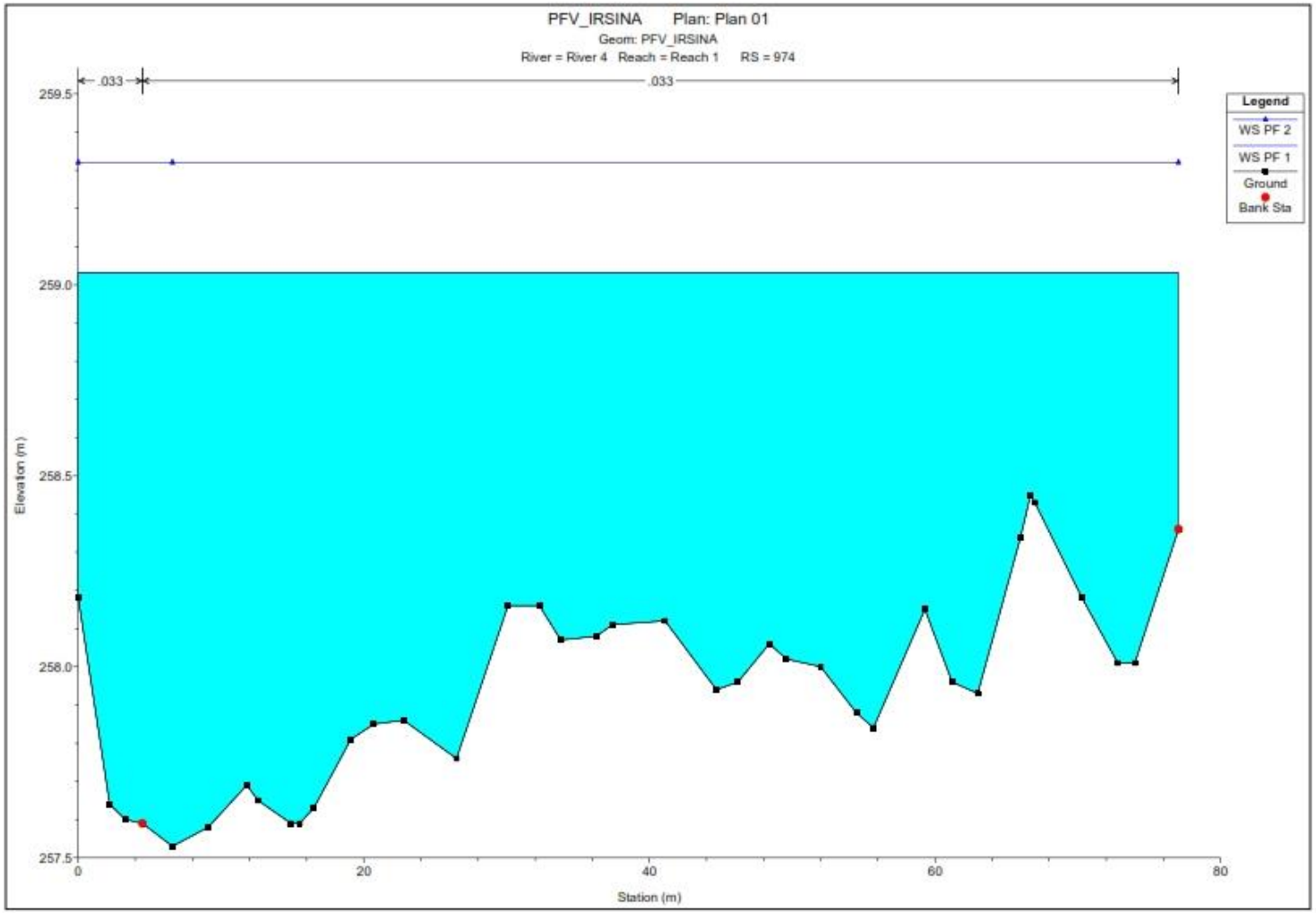

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 4 Reach = Reach 1 RS = 610
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
254.6
254.4
254.2
254.0
253.8
253.6
0
10
20
30
40
50
60
70
Station (m)

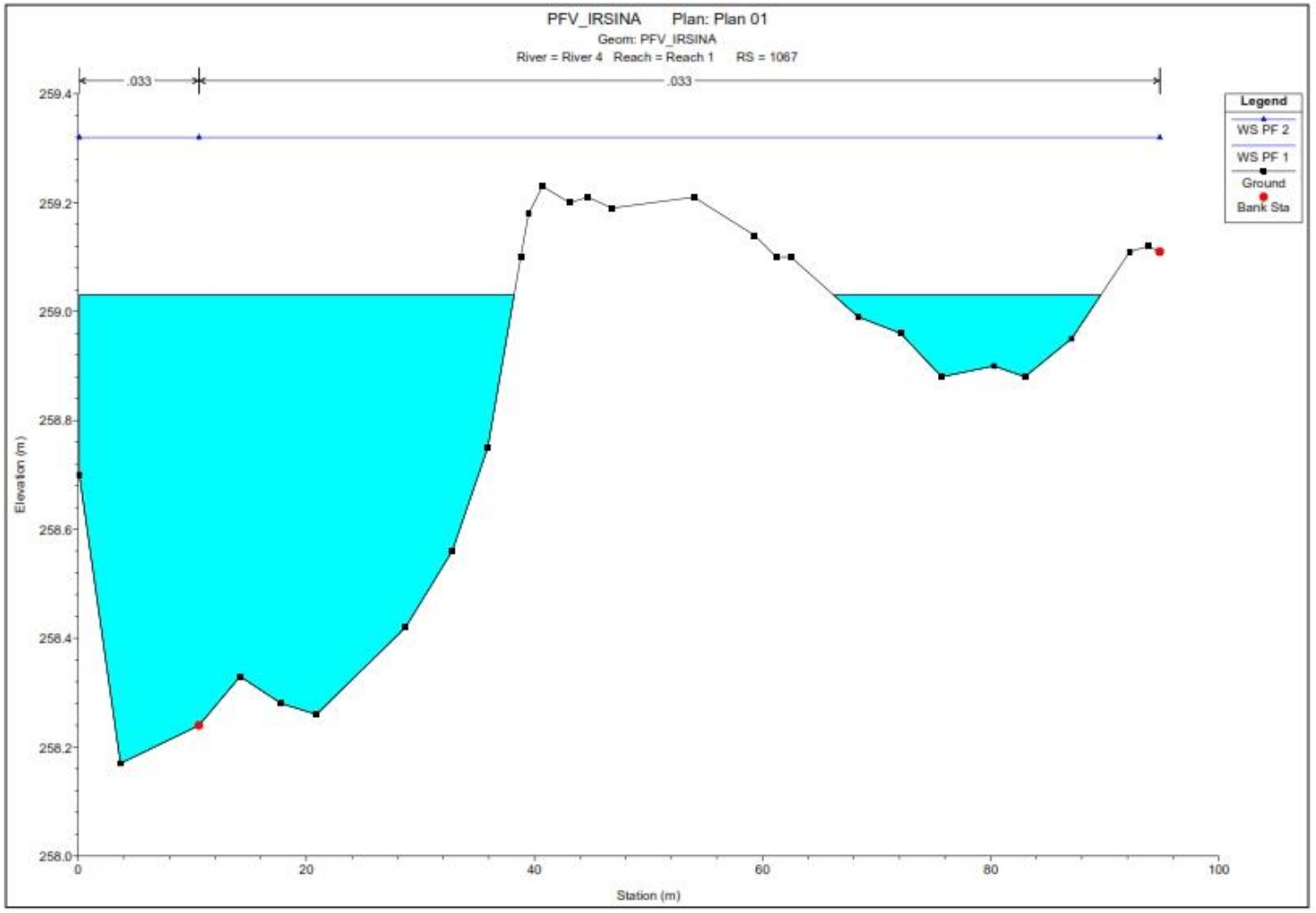

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 4 Reach = Reach 1 RS = 748
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
255.8
255.6
255.4
255.2
255.0
254.8
0
10
20
30
40
50
60
70
Station (m)

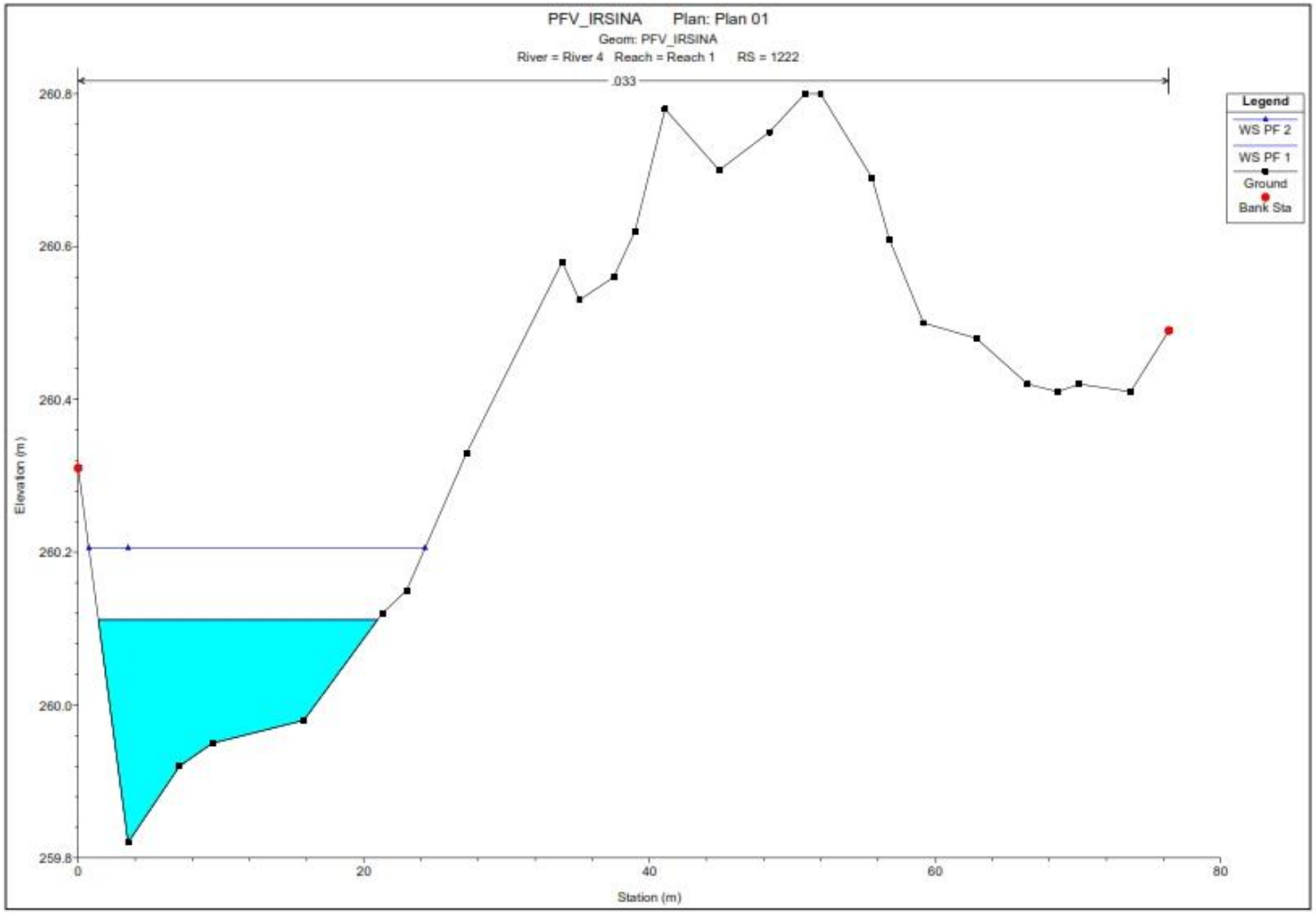

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 4 Reach = Reach 1 RS = 889
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
257.0
256.8
256.6
256.4
256.2
256.0
255.8
0
20
40
60
80
100
Station (m)

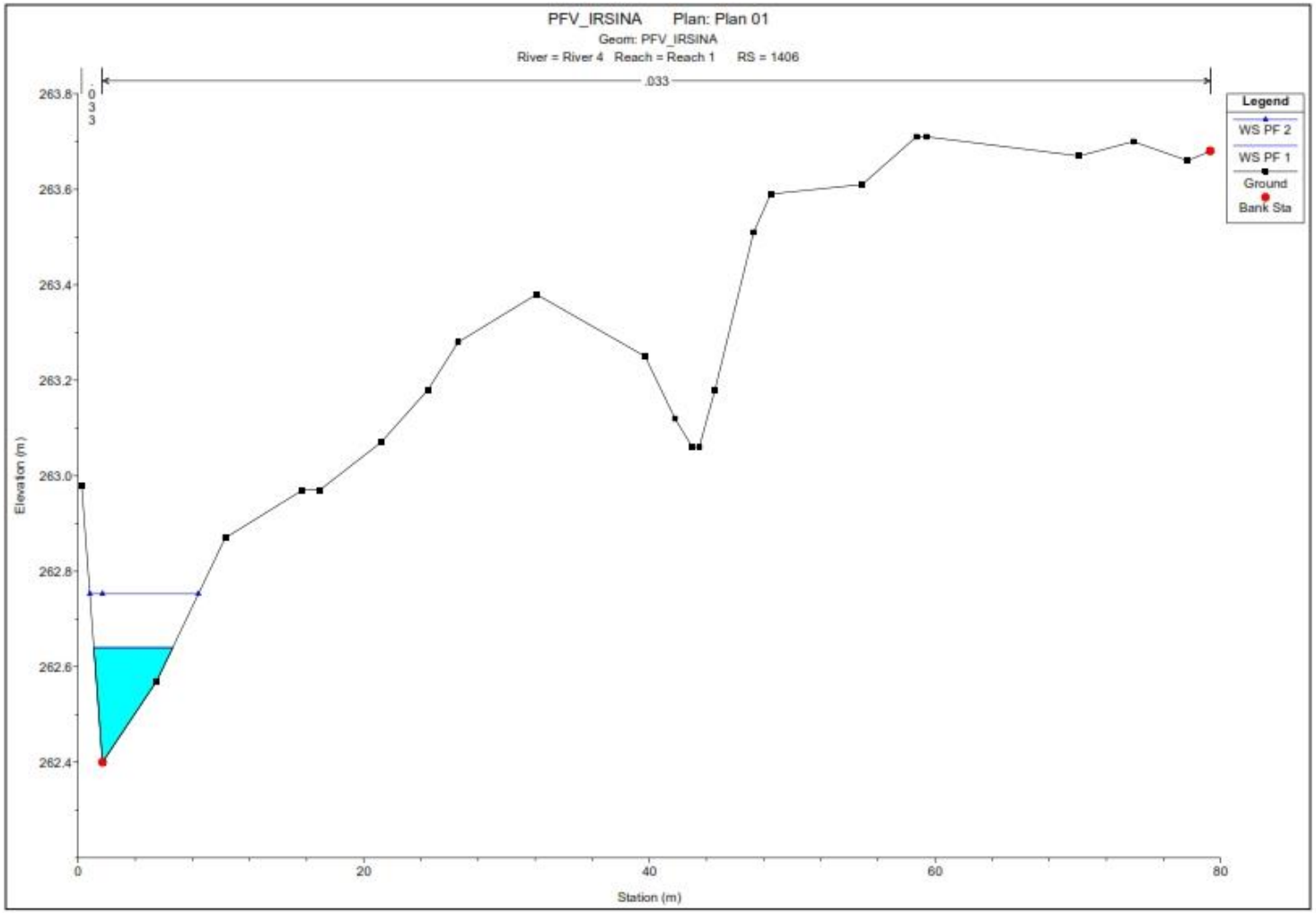

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 4 Reach = Reach 1 RS = 900 Culv
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
259.5
259.0
258.5
258.0
257.5
257.0
256.5
256.0
255.5
0
20
40
60
80
100

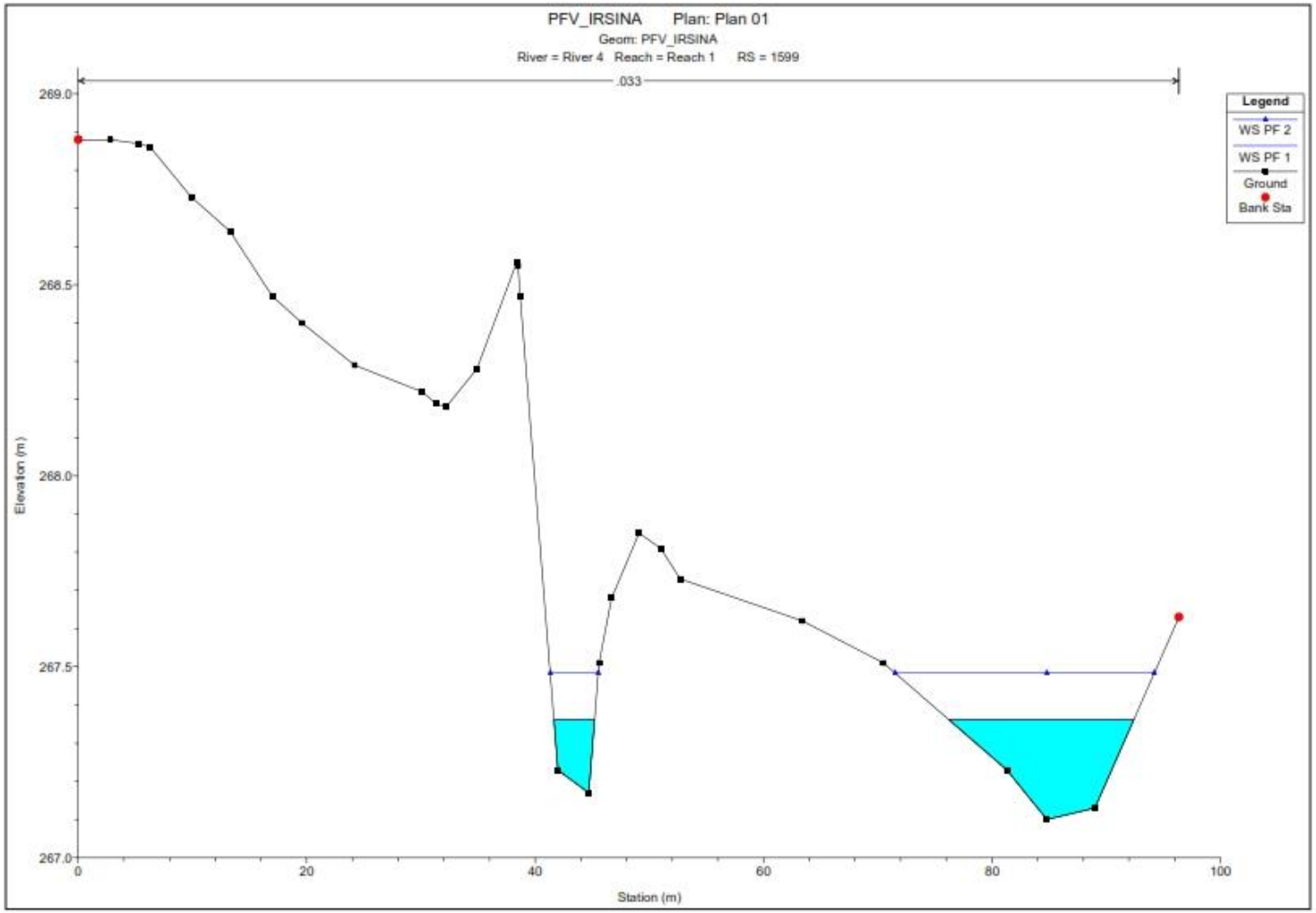

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 4 Reach = Reach 1 RS = 900 Culv
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
259.5
259.0
258.5
258.0
257.5
0
20
40
60
80
Station (m)

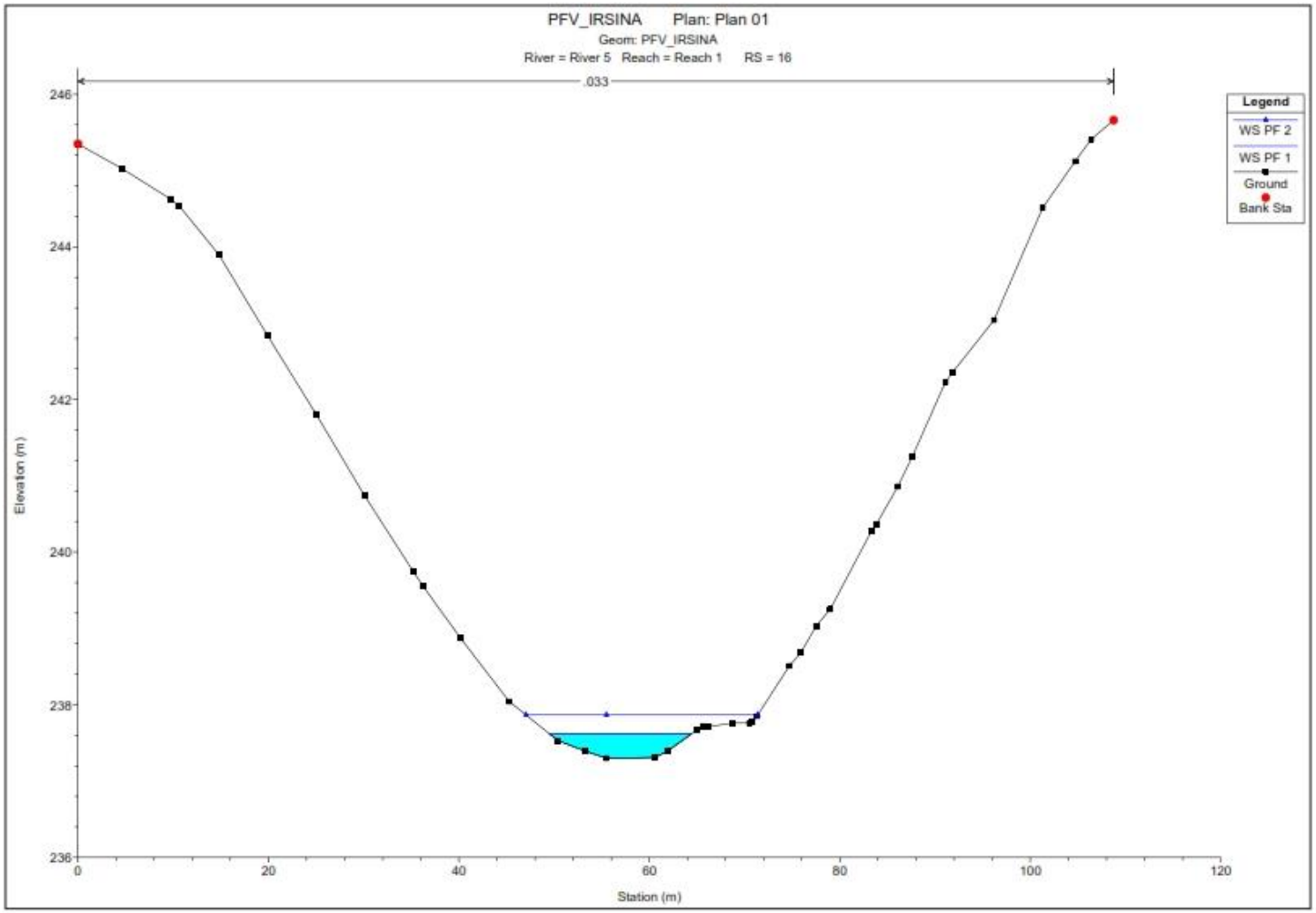

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 4 Reach = Reach 1 RS = 974
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
259.5
259.0
258.5
258.0
257.5
Elevation (m)
0
20
40
60
80
Station (m)

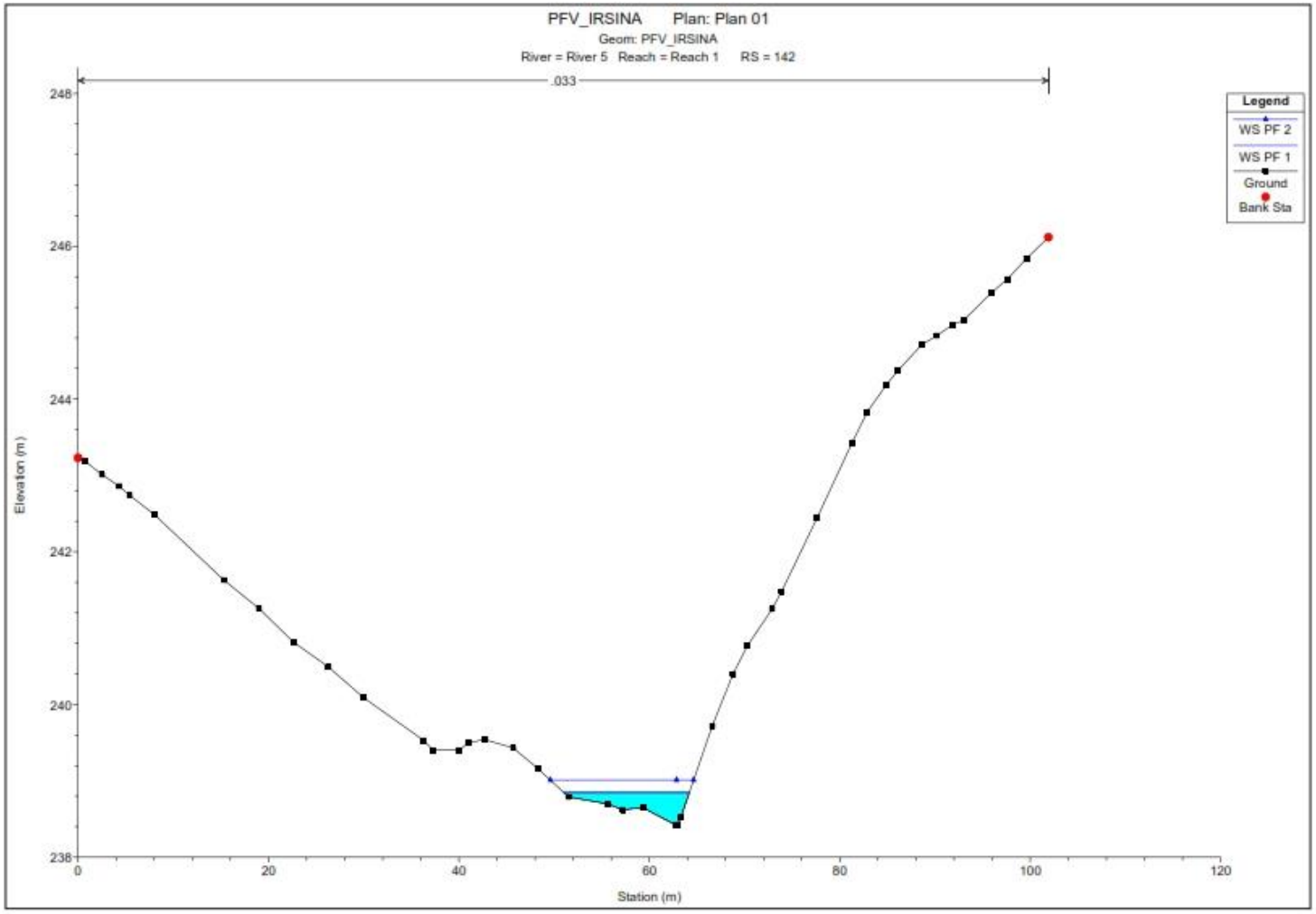

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 4 Reach = Reach 1 RS = 1067
.033
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
259.4
259.2
259.0
258.8
258.6
258.4
258.2
258.0
0
20
40
60
80
100

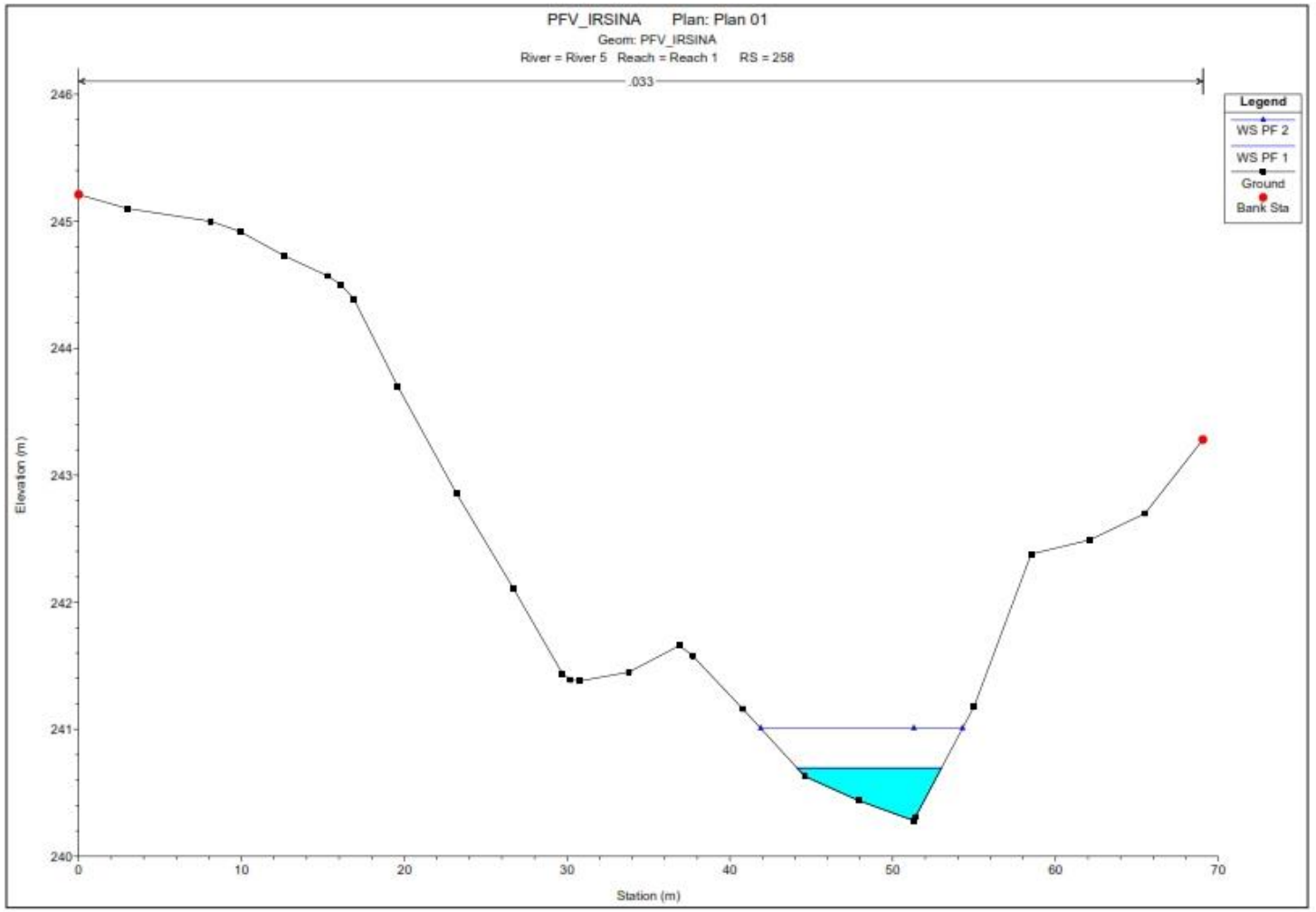

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 4 Reach = Reach 1 RS = 1222
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
260.8
260.6
260.4
260.2
260.0
259.8
0
20
40
60
80
Station (m)

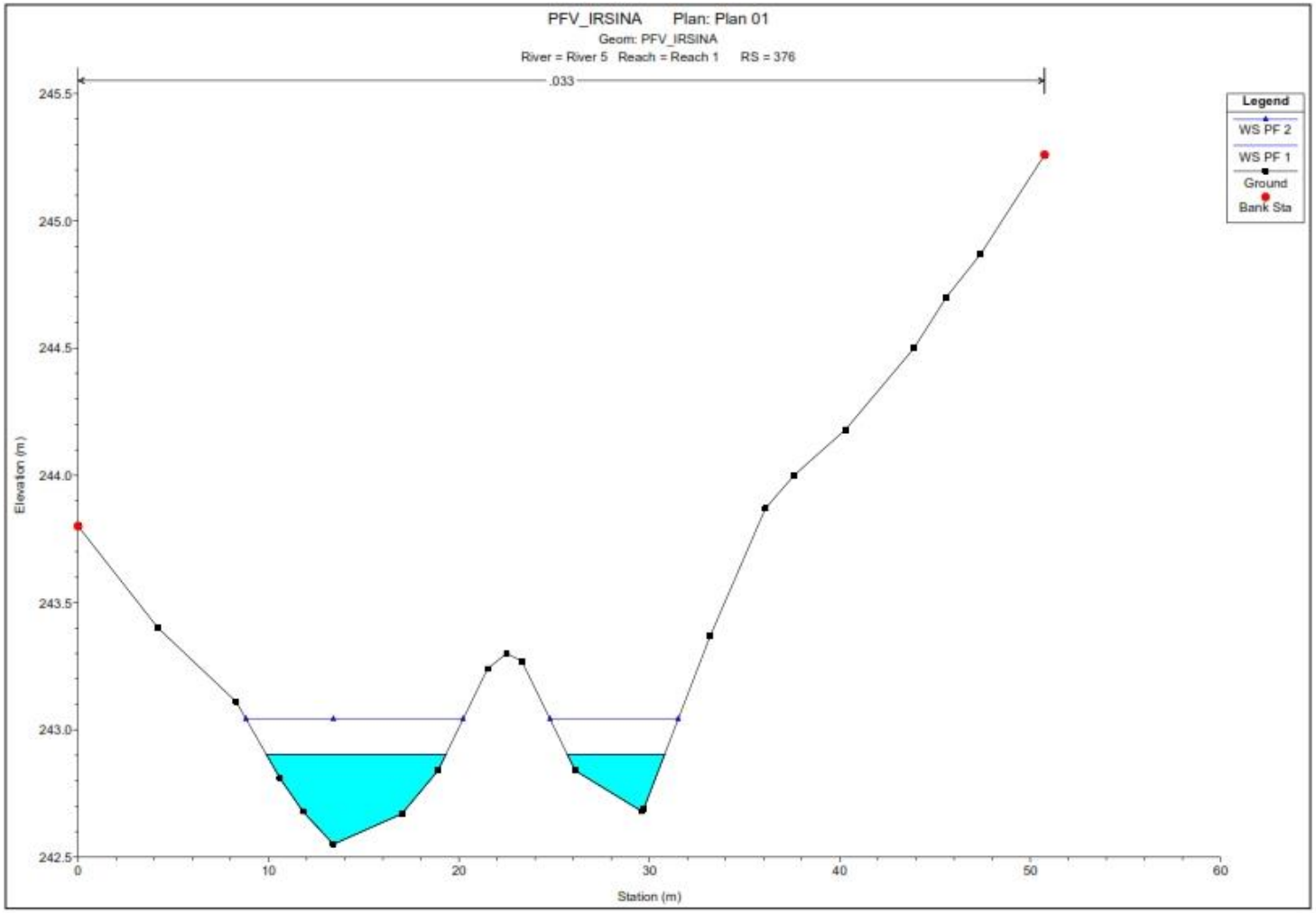

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 4 Reach = Reach 1 RS = 1406
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
263.8
263.6
263.4
263.2
263.0
262.8
262.6
262.4
0
20
40
60
80

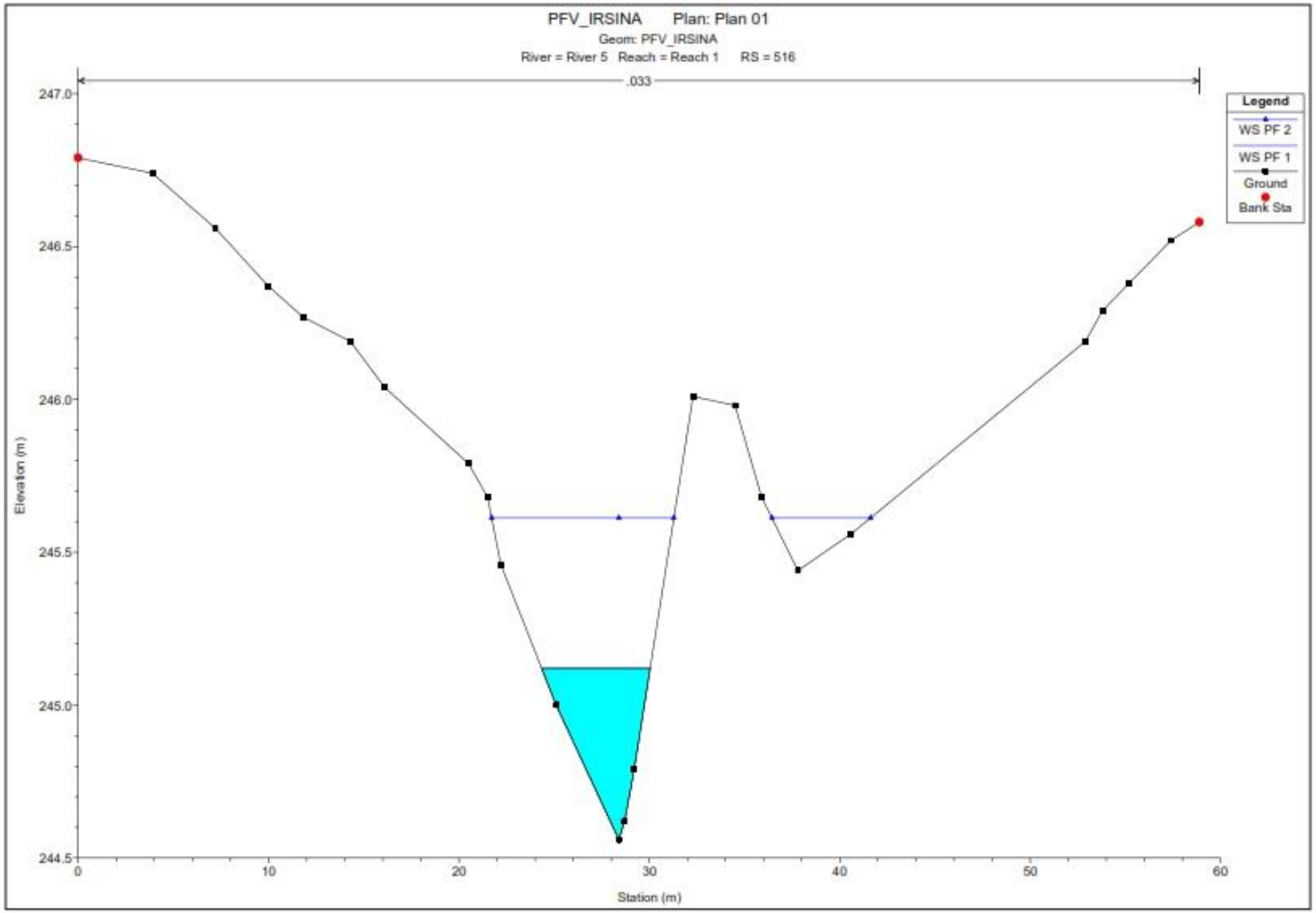

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 4 Reach = Reach 1 RS = 1599
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
269.0
268.5
268.0
267.5
267.0
0
20
40
60
80
100
Station (m)

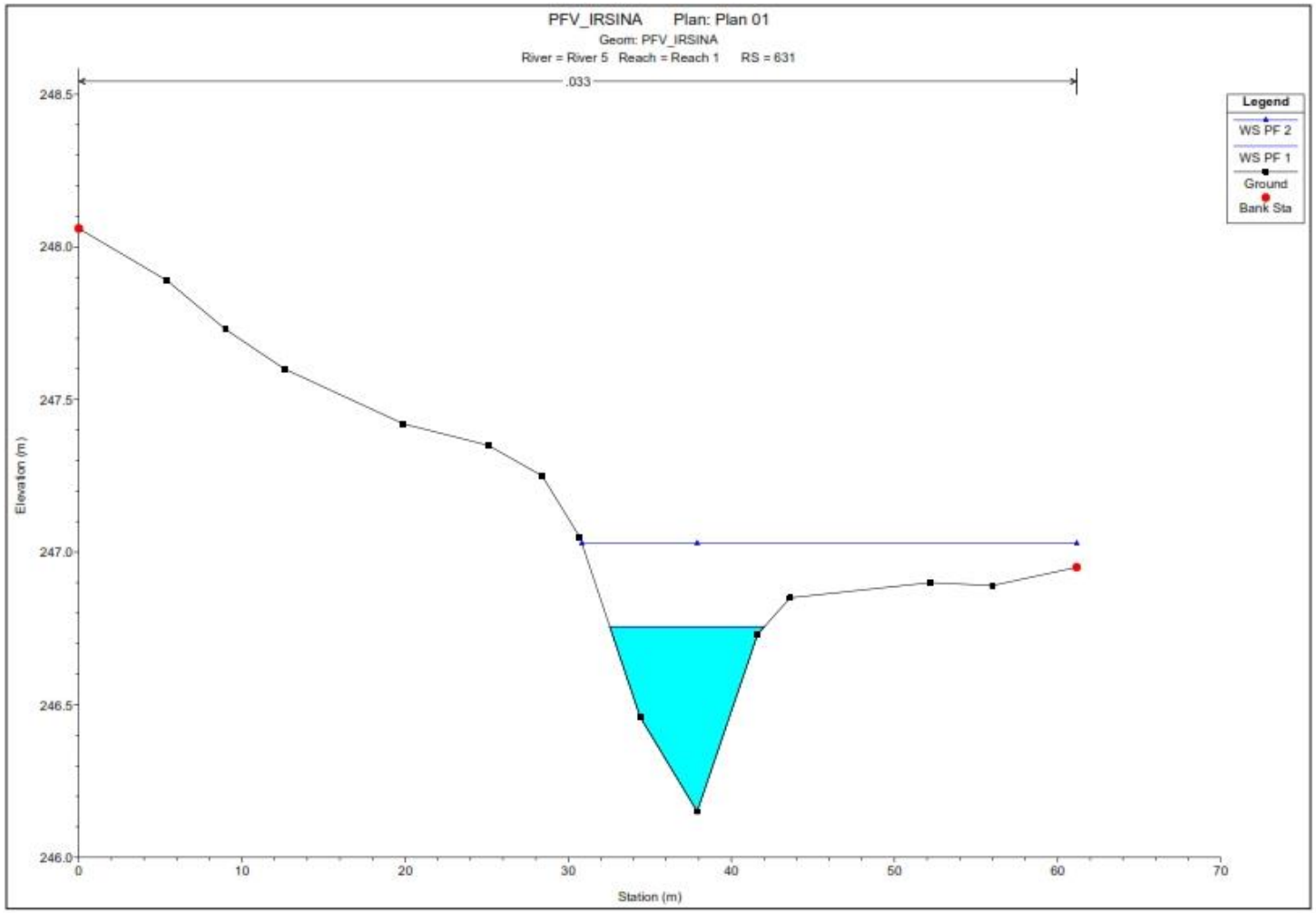

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 16
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
246
244
242
240
238
236
0
20
40
60
80
100
120

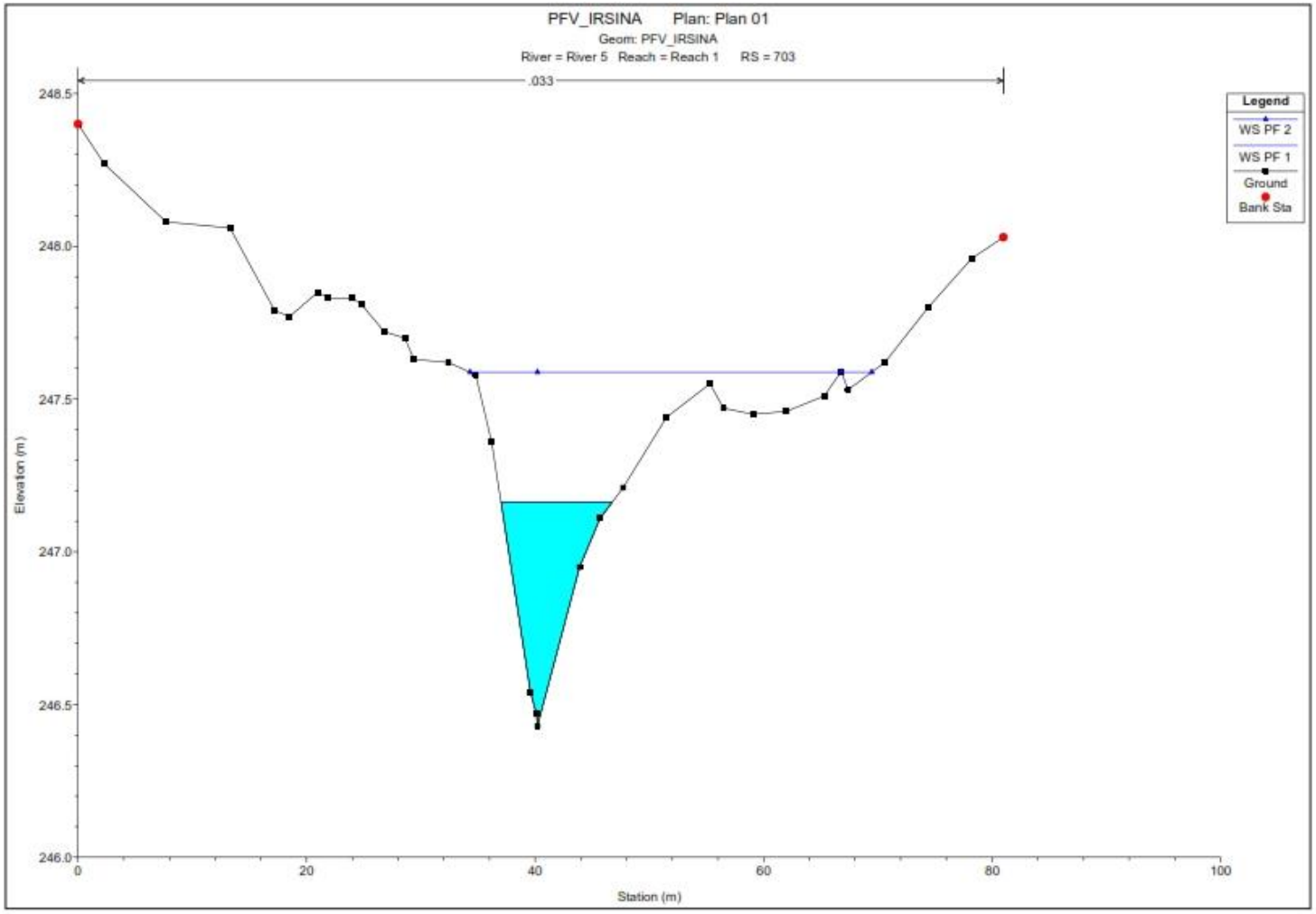

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 142
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
248
246
244
242
240
238
0
20
40
60
80
100
120

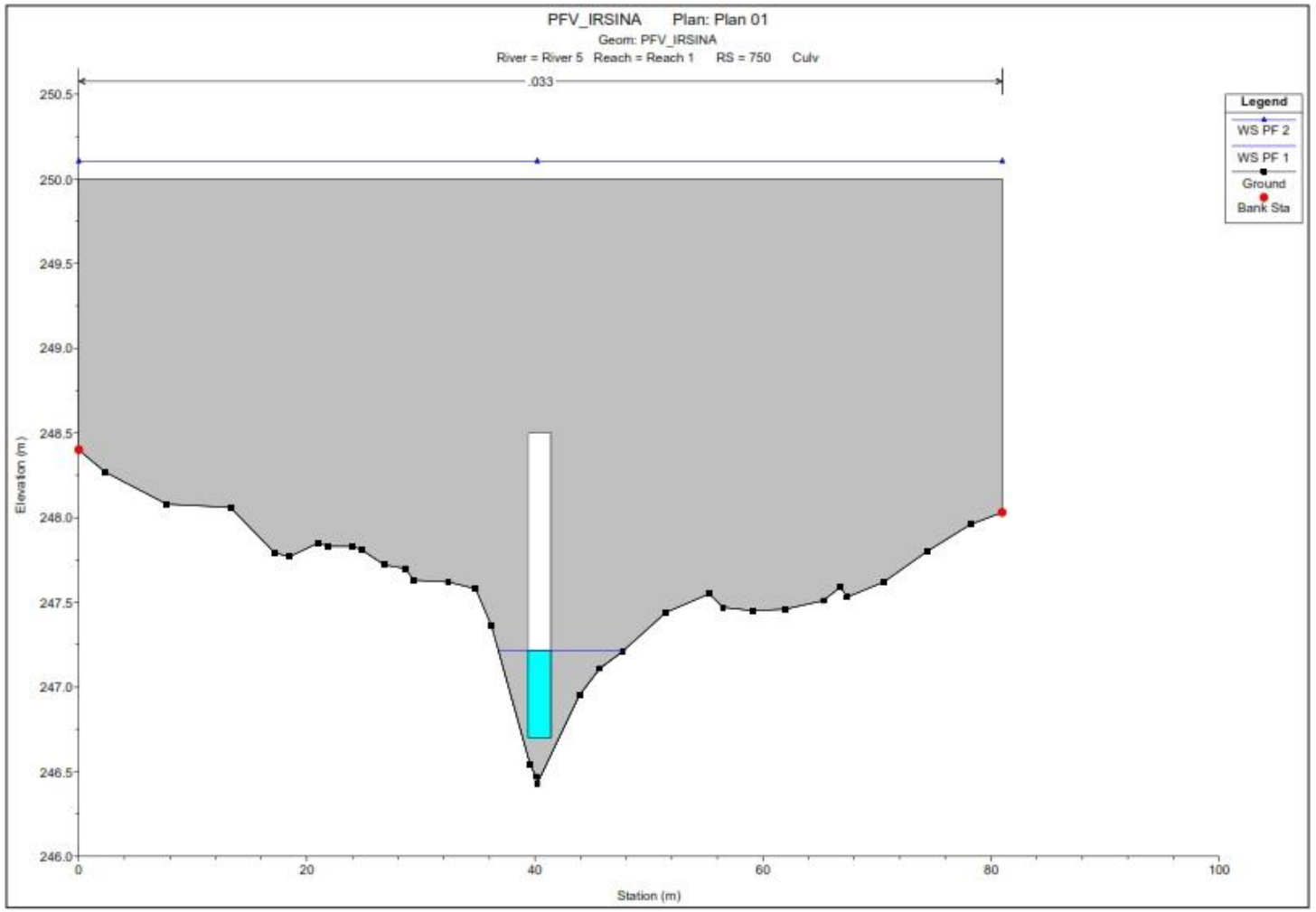

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 258
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
240
241
242
243
244
245
246
0
10
20
30
40
50
60
70

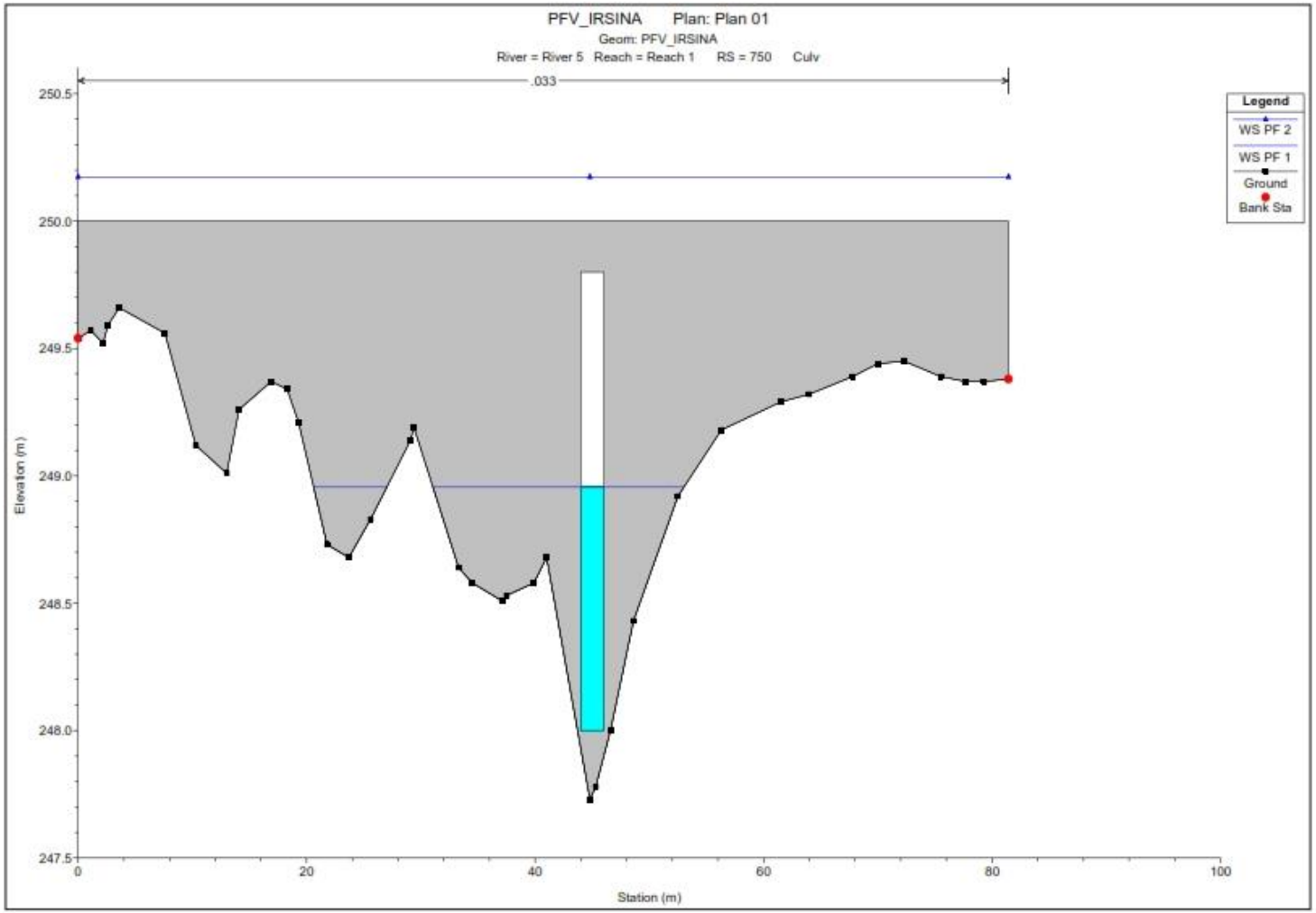

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 376
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
245.5
245.0
244.5
244.0
243.5
243.0
242.5
0
10
20
30
40
50
60

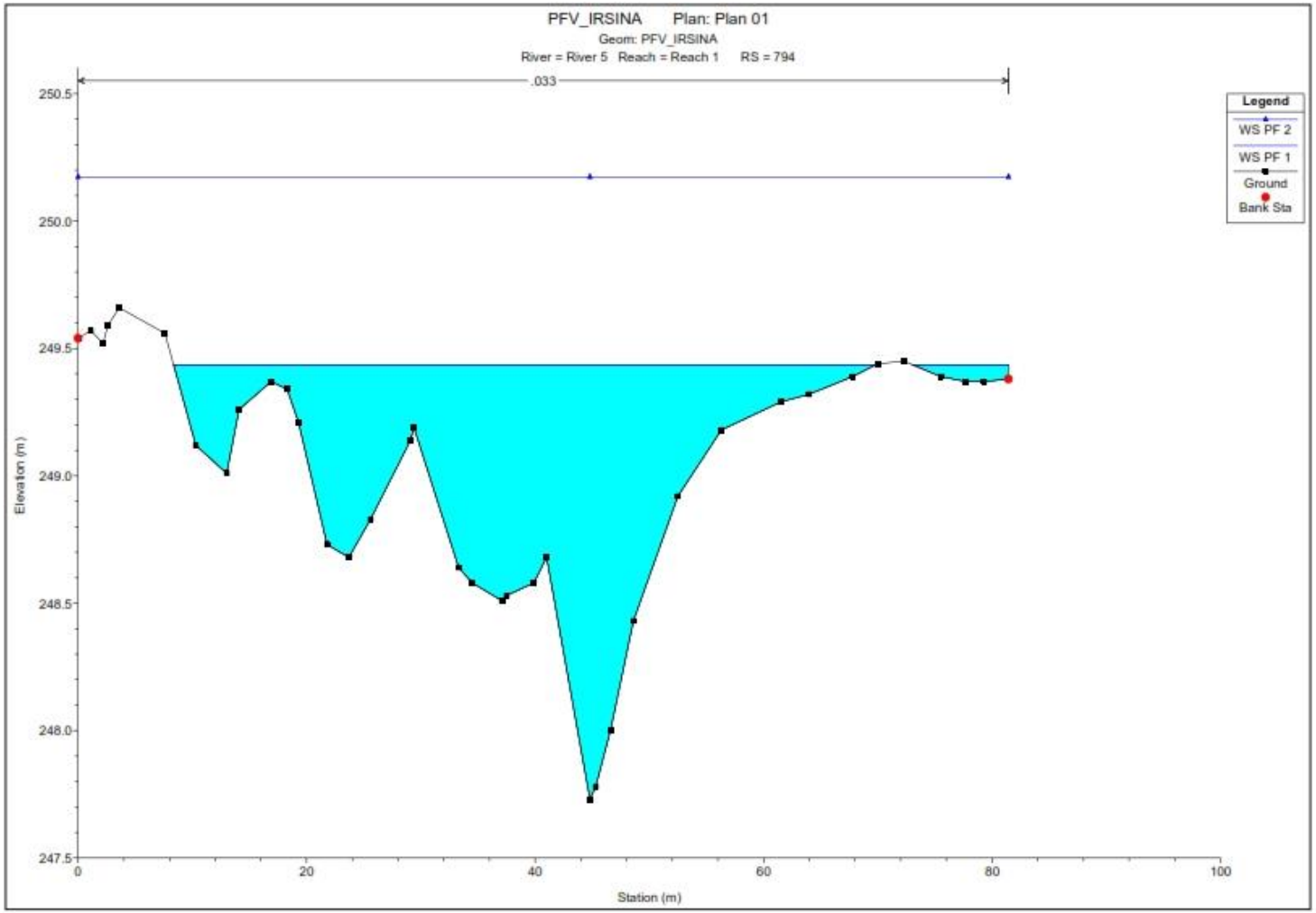

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 516
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
247.0
246.5
246.0
245.5
245.0
244.5
0
10
20
30
40
50
60

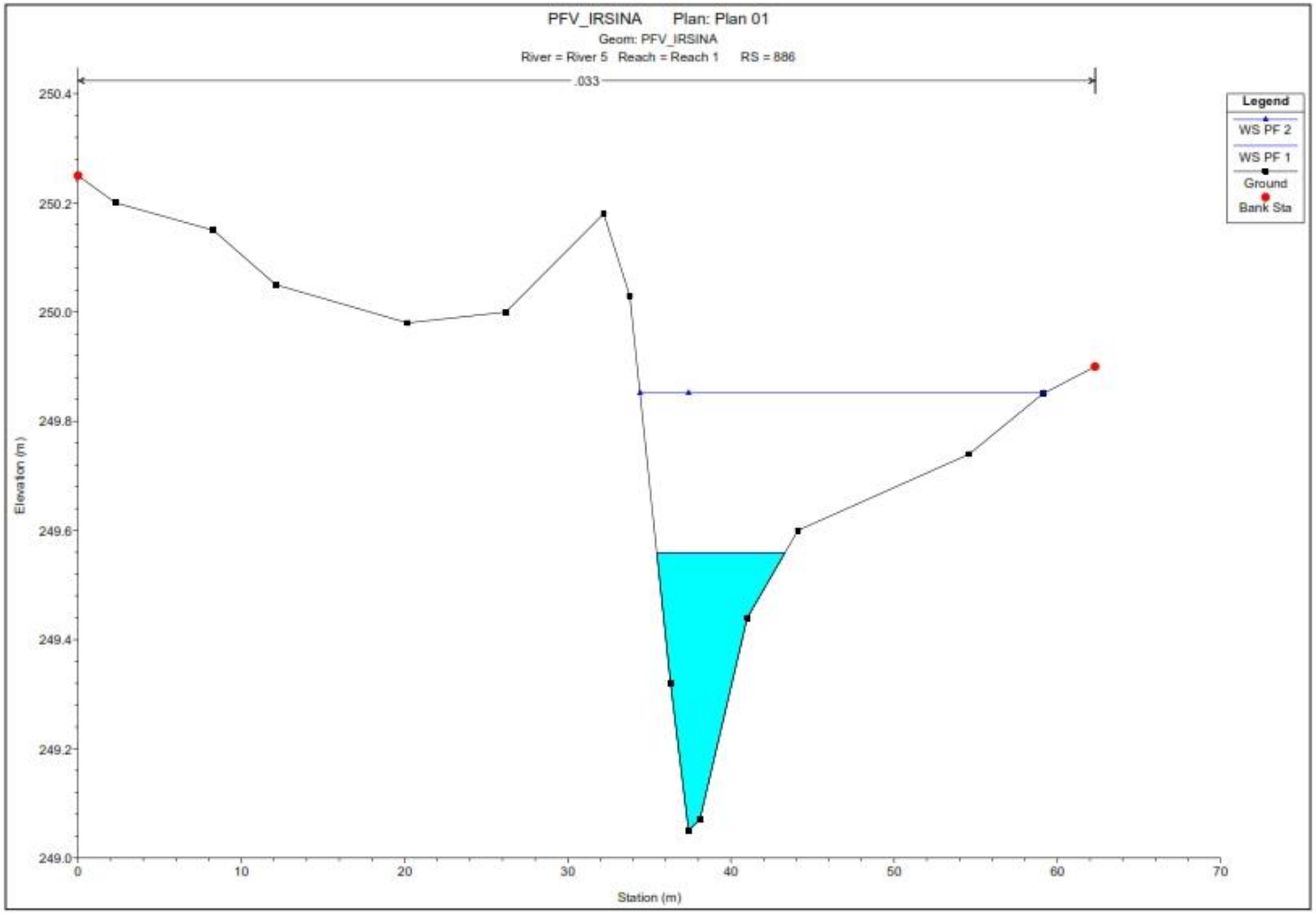

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 631
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
248.5
248.0
247.5
247.0
246.5
246.0
0
10
20
30
40
50
60
70

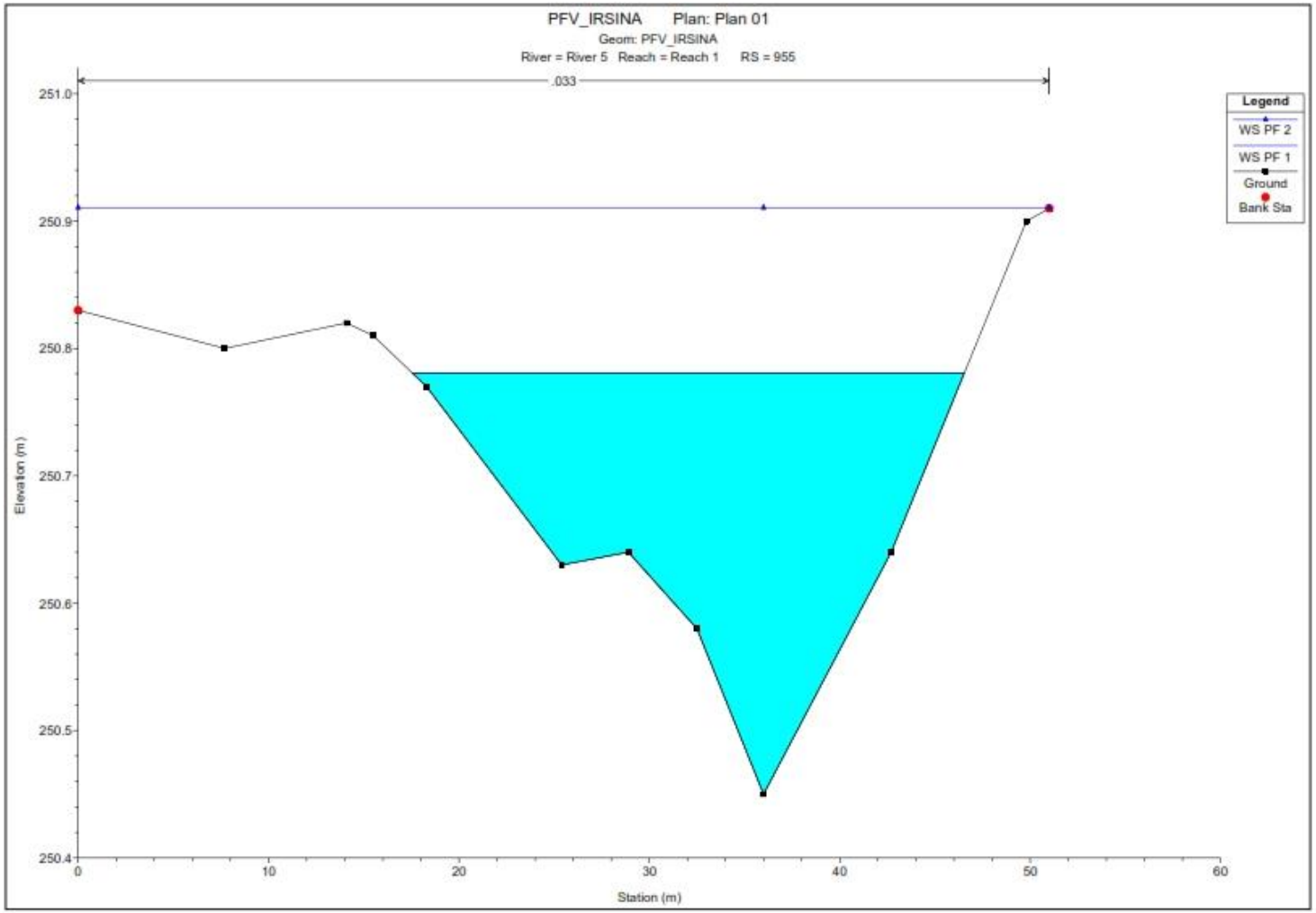

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 703
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
248.5
248.0
247.5
247.0
246.5
246.0
0
20
40
60
80
100

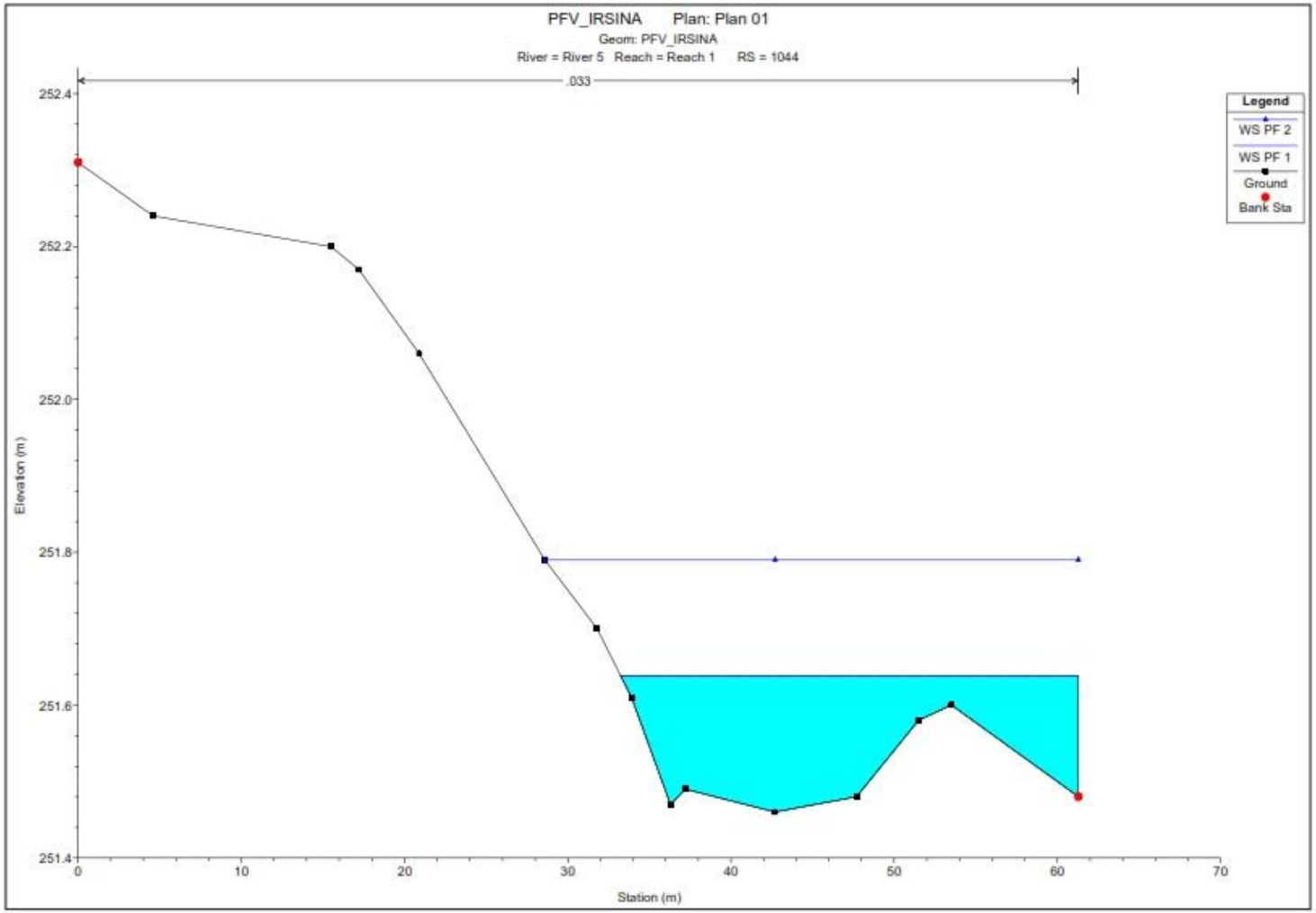

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 750 Culv
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
250.5
250.0
249.5
249.0
248.5
248.0
247.5
247.0
246.5
246.0
0
20
40
60
80
100

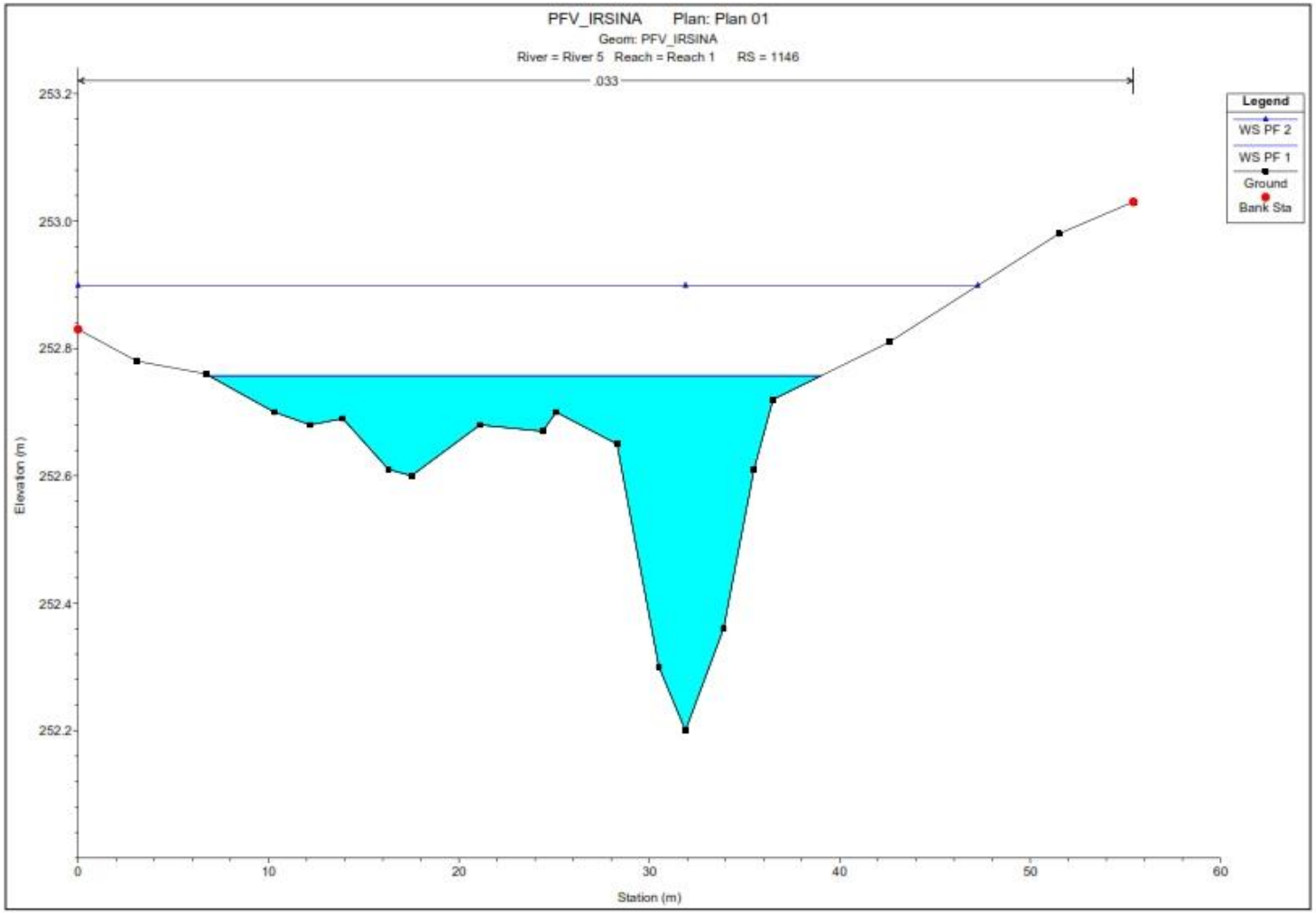

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 750 Culv
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
250.5
250.0
249.5
249.0
248.5
248.0
247.5
0
20
40
60
80
100

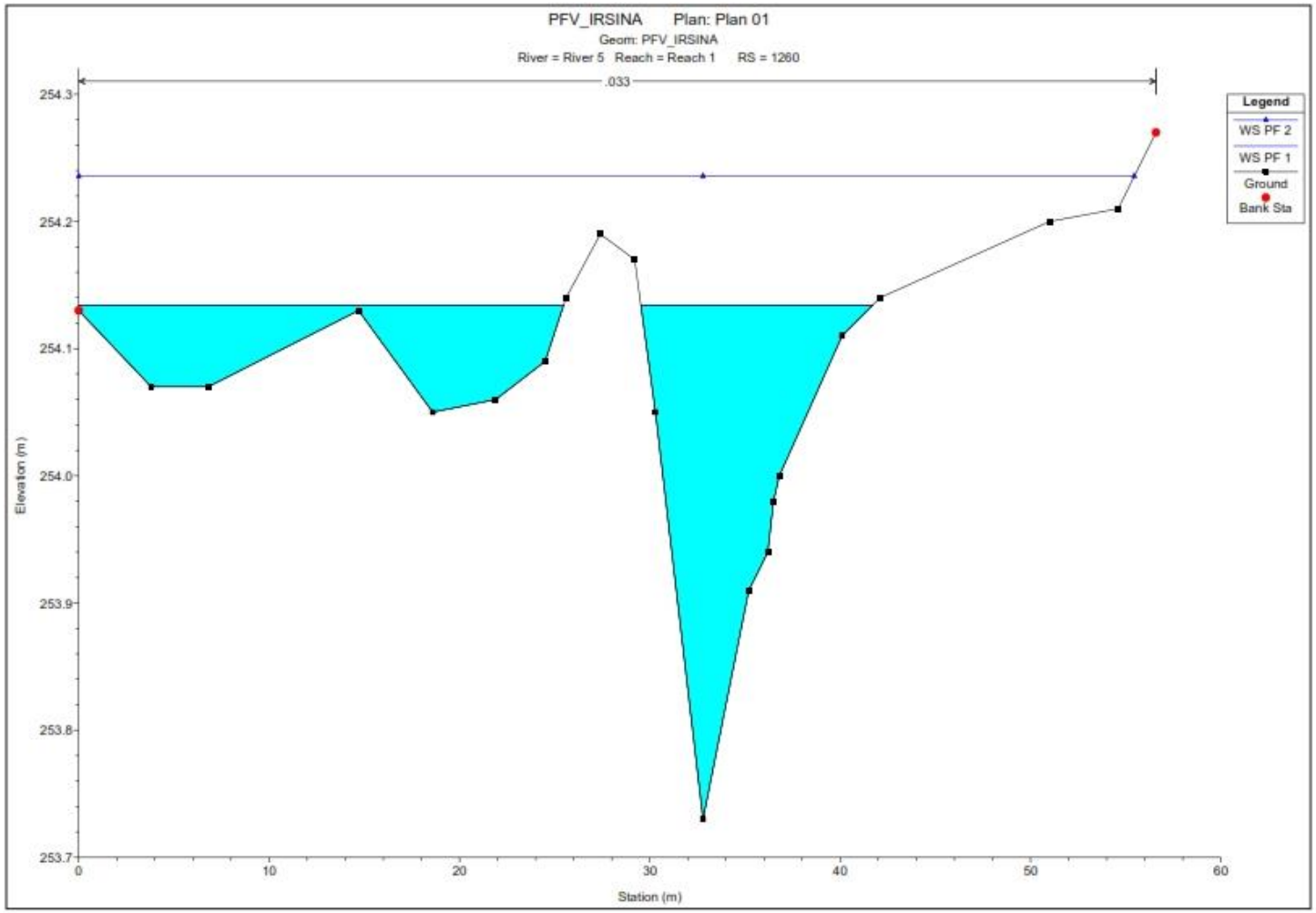

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 794
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
250.5
250.0
249.5
249.0
248.5
248.0
247.5
0
20
40
60
80
100

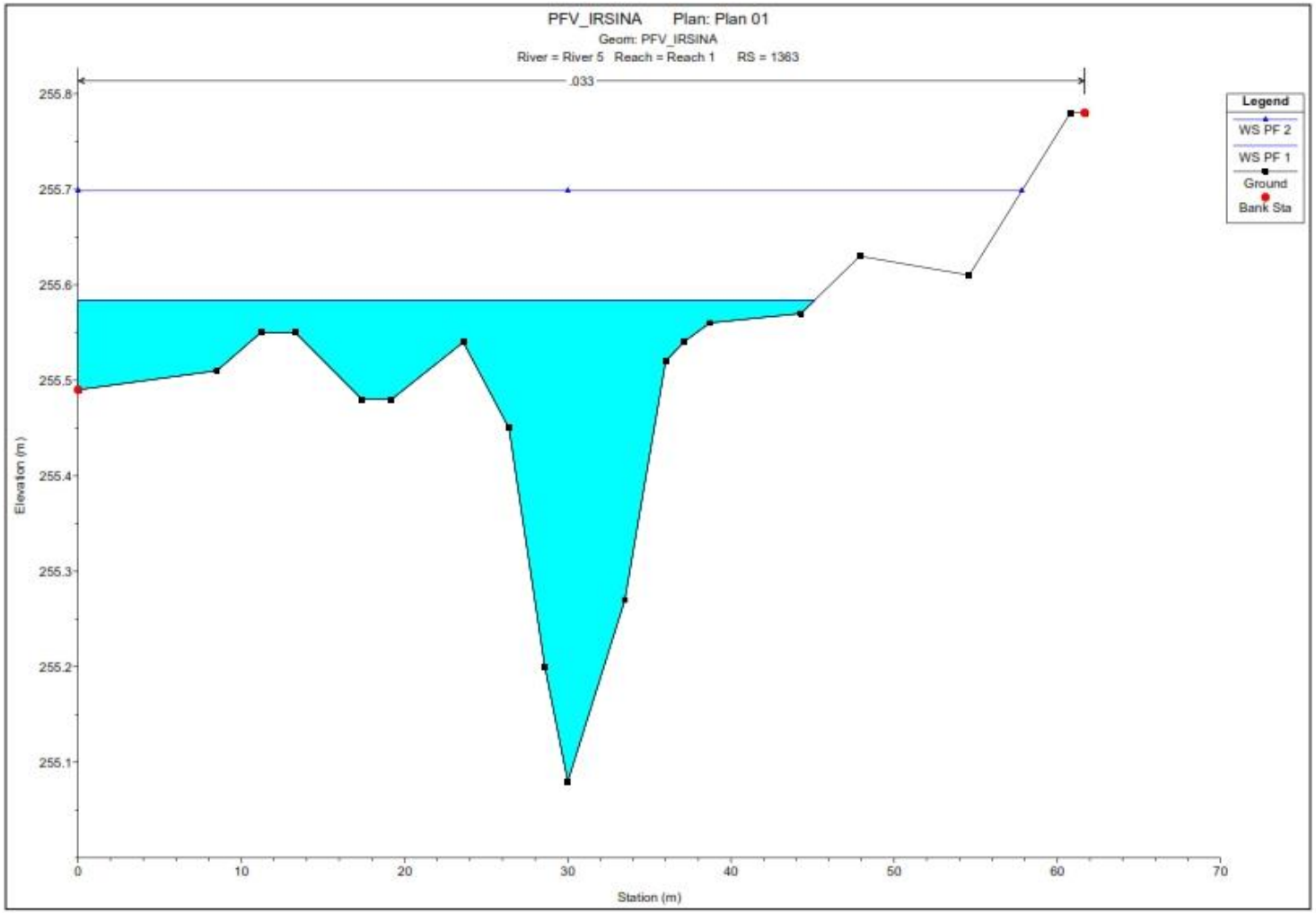

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 886
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
250.4
250.2
250.0
249.8
249.6
249.4
249.2
249.0
0
10
20
30
40
50
60
70

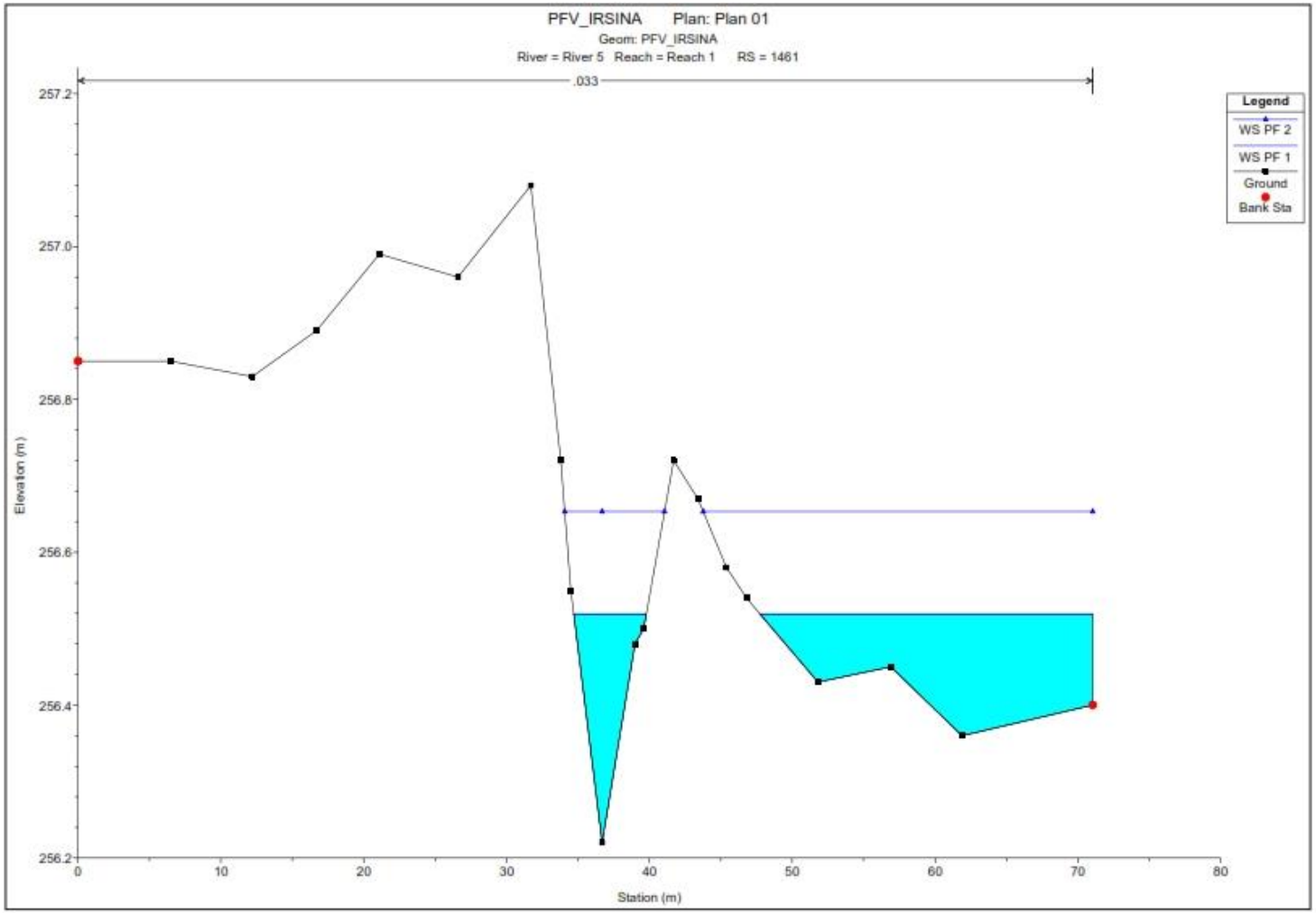

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 955
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
251.0
250.9
250.8
250.7
250.6
250.5
250.4
0
10
20
30
40
50
60

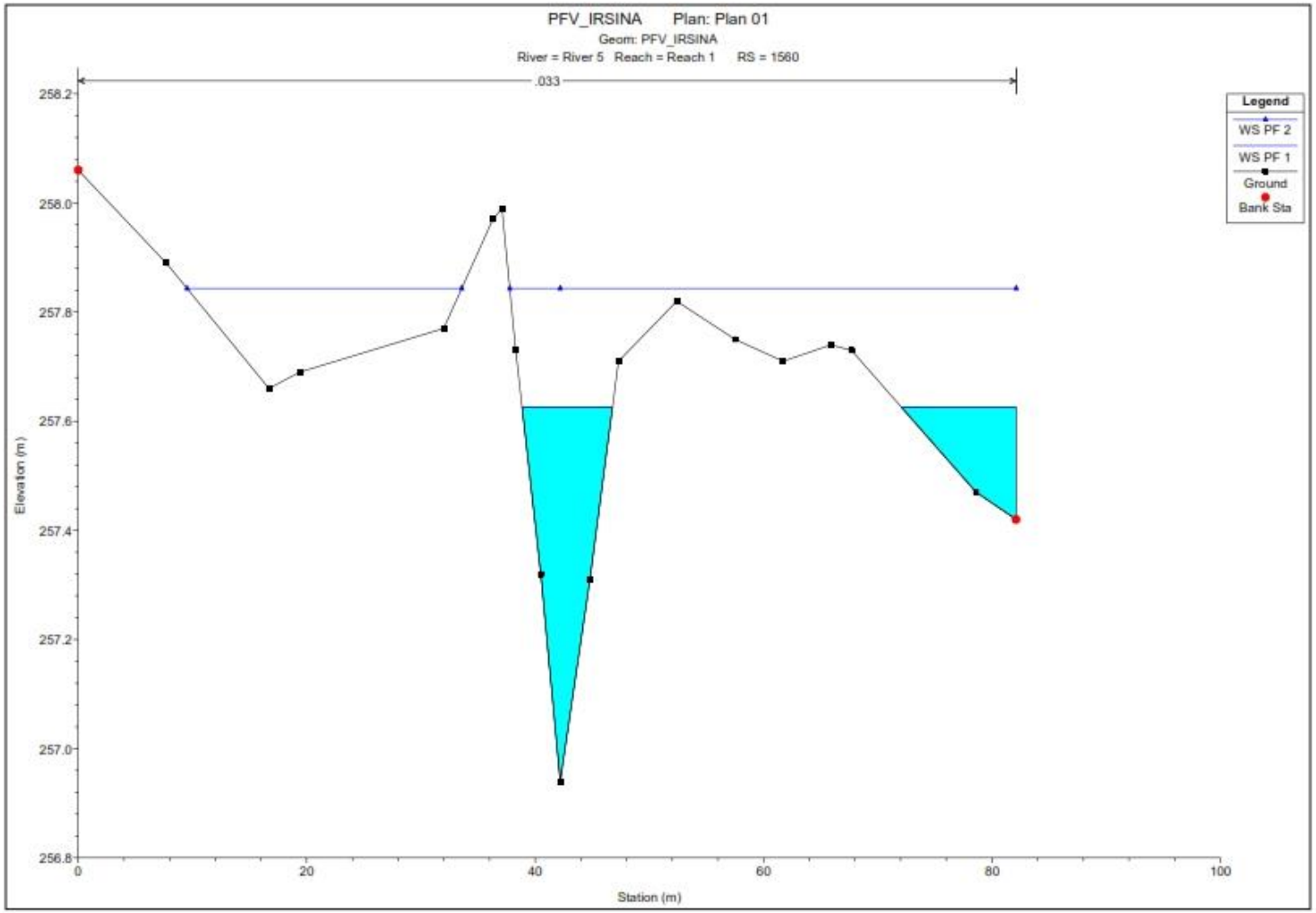

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 1044
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
252.4
252.2
252.0
251.8
251.6
251.4
0
10
20
30
40
50
60
70

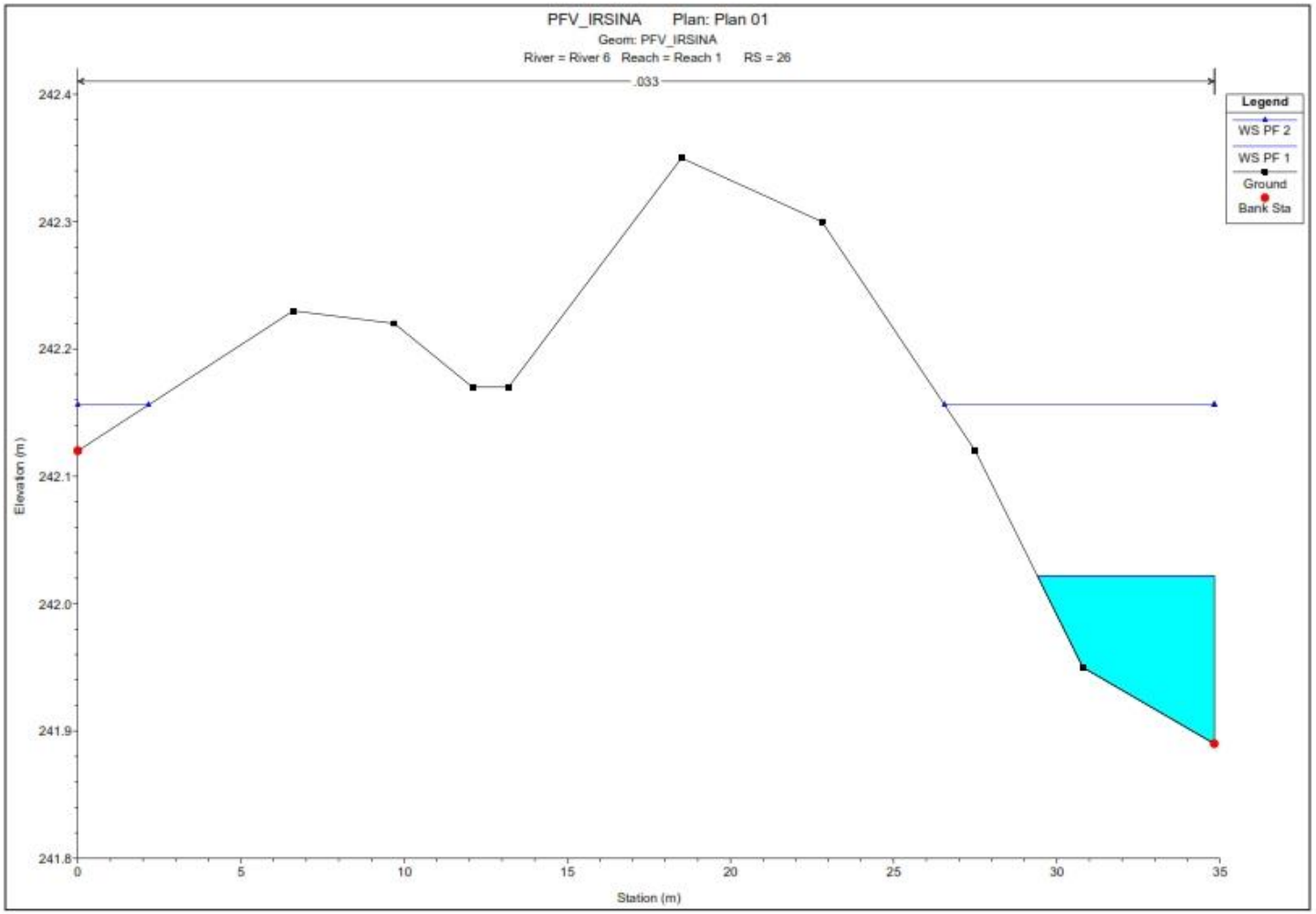

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 1146
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
253.2
253.0
252.8
252.6
252.4
252.2
Elevation (m)
0
10
20
30
40
50
60
Station (m)

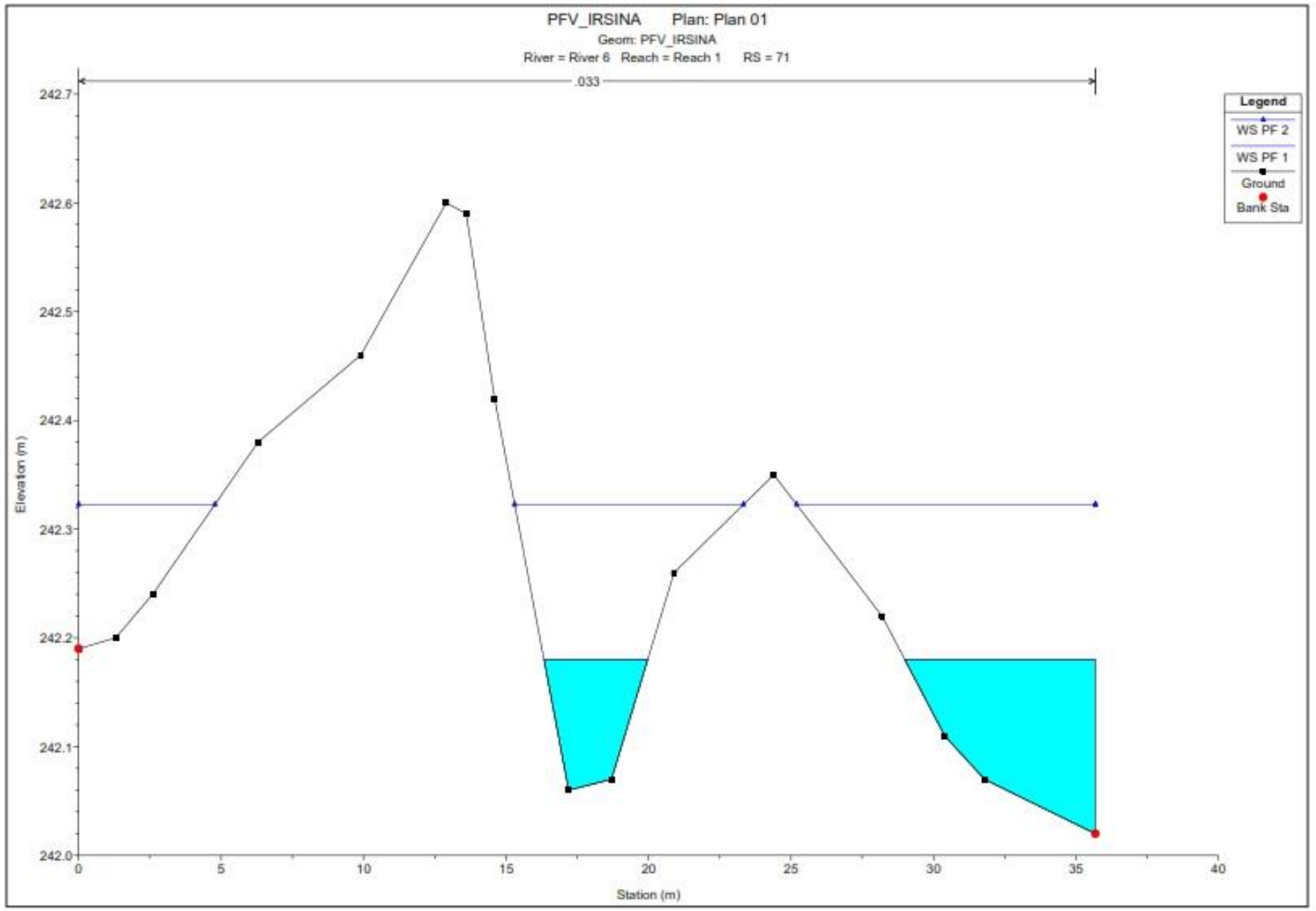

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 1260
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
254.3
254.2
254.1
254.0
253.9
253.8
253.7
0
10
20
30
40
50
60

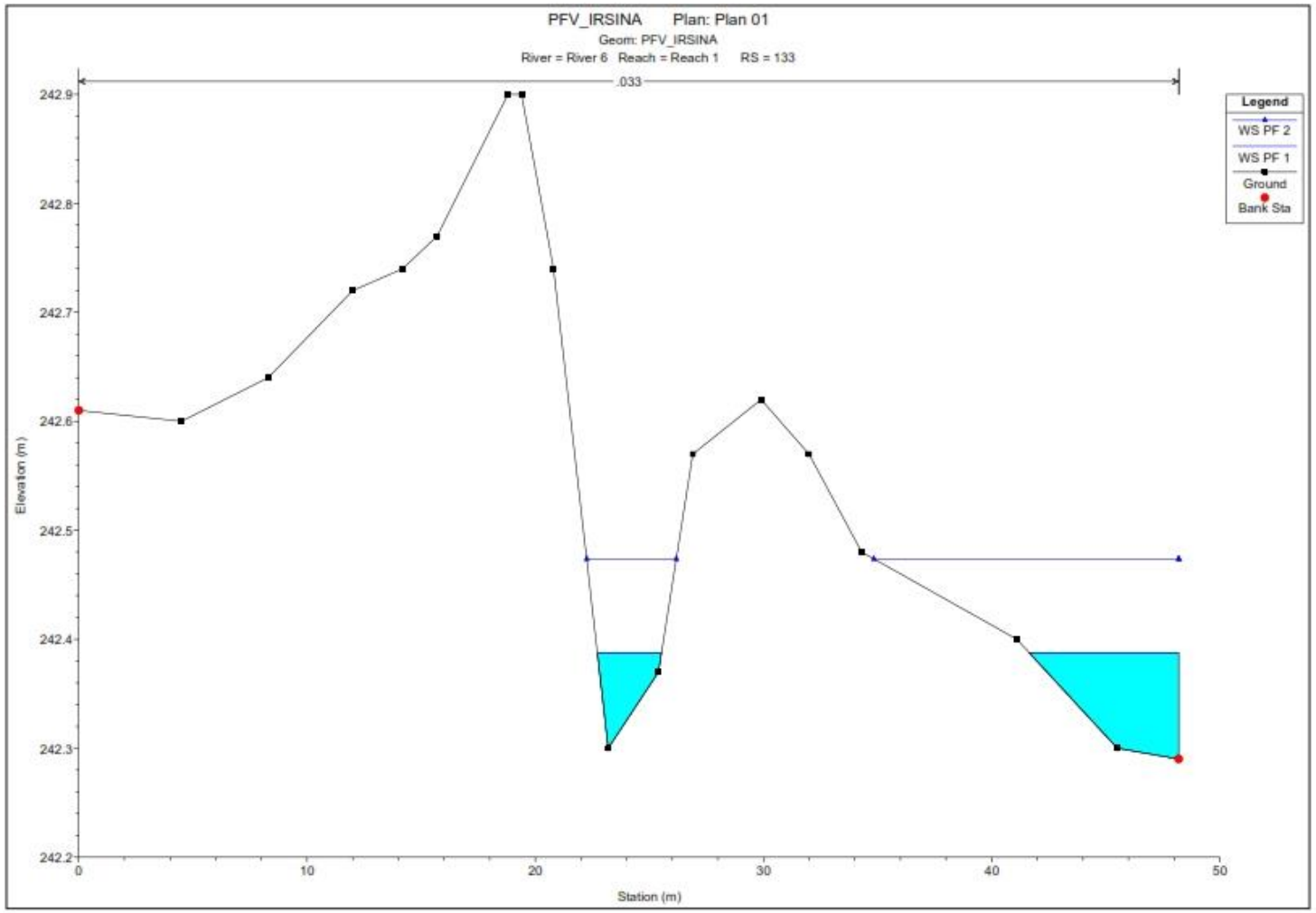

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 1383
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
255.8
255.7
255.6
255.5
255.4
255.3
255.2
255.1
0
10
20
30
40
50
60
70
Station (m)

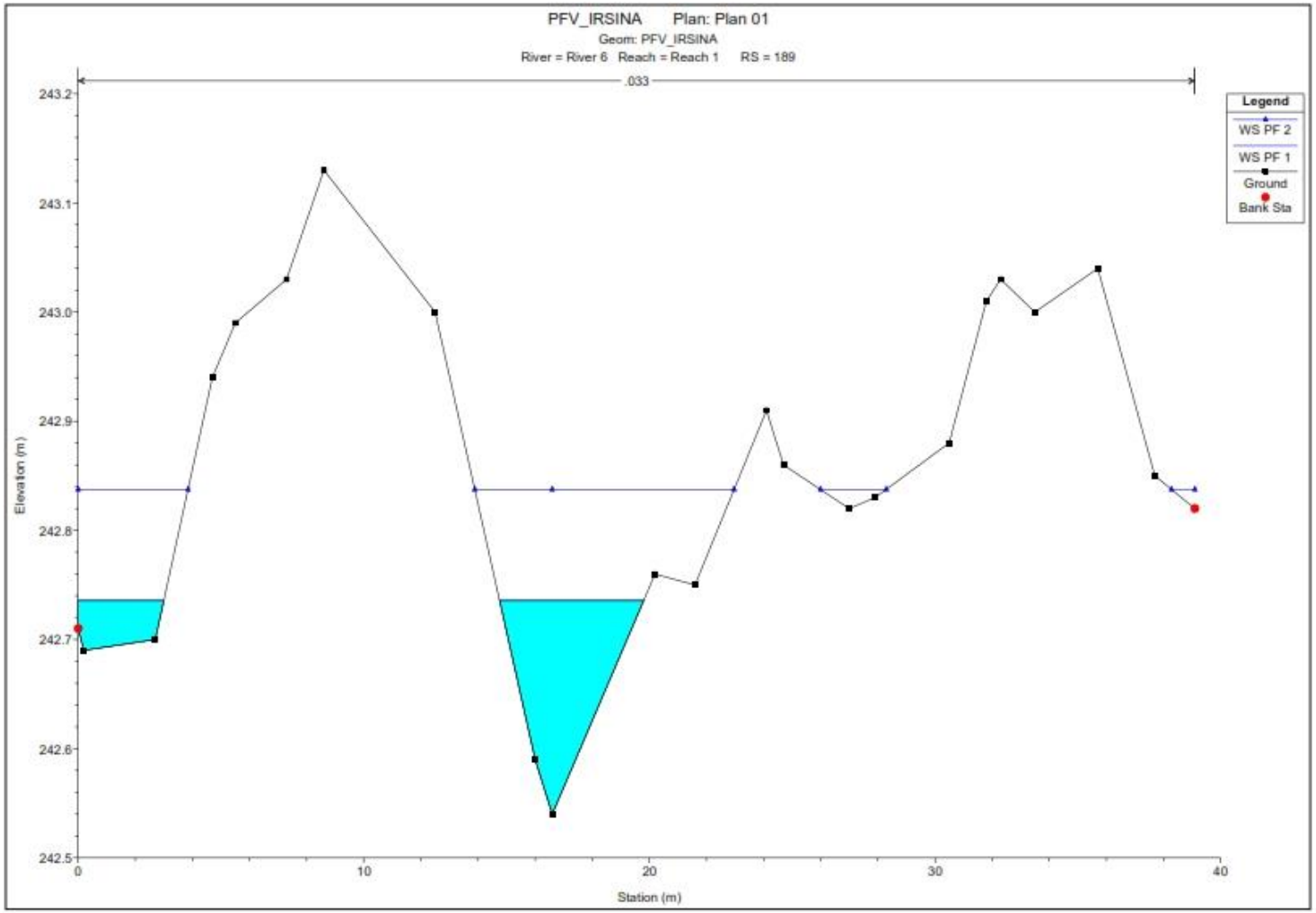

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 1461
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
257.2
257.0
256.8
256.6
256.4
256.2
0
10
20
30
40
50
60
70
80

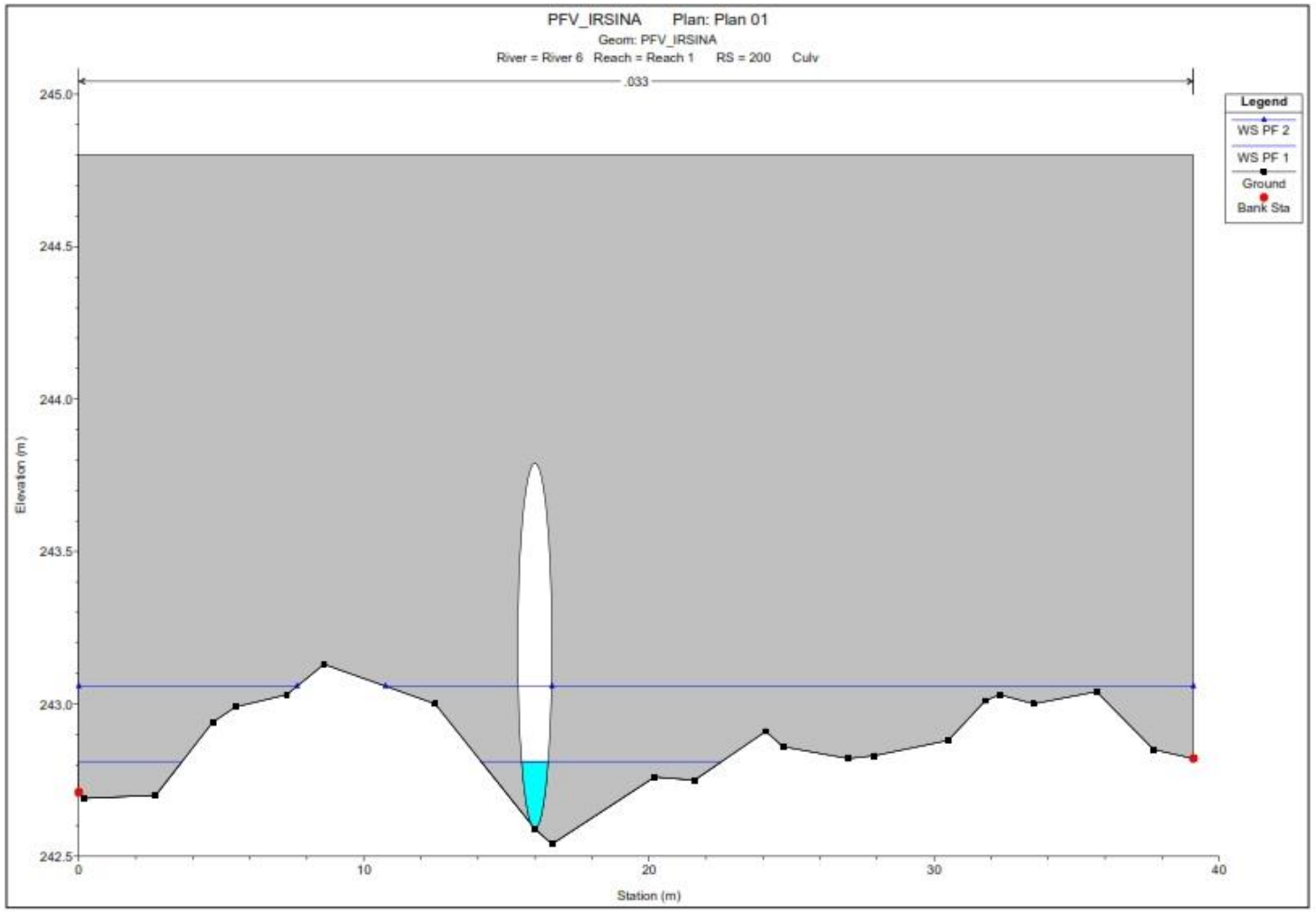

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 5 Reach = Reach 1 RS = 1560
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
258.2
258.0
257.8
257.6
257.4
257.2
257.0
256.8
0
20
40
60
80
100

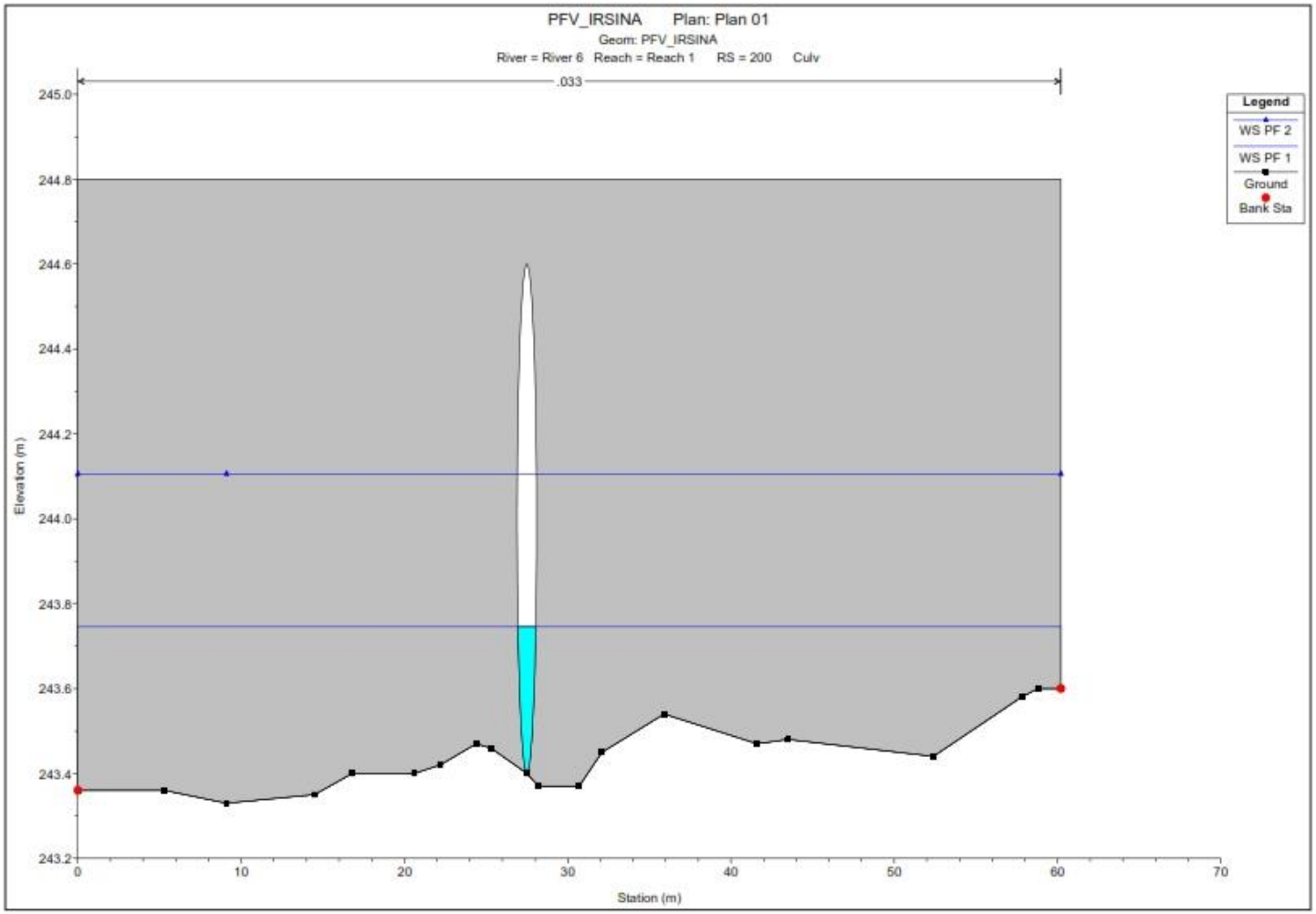

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 26
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
242.4
242.3
242.2
242.1
242.0
241.9
241.8
0
5
10
15
20
25
30
35

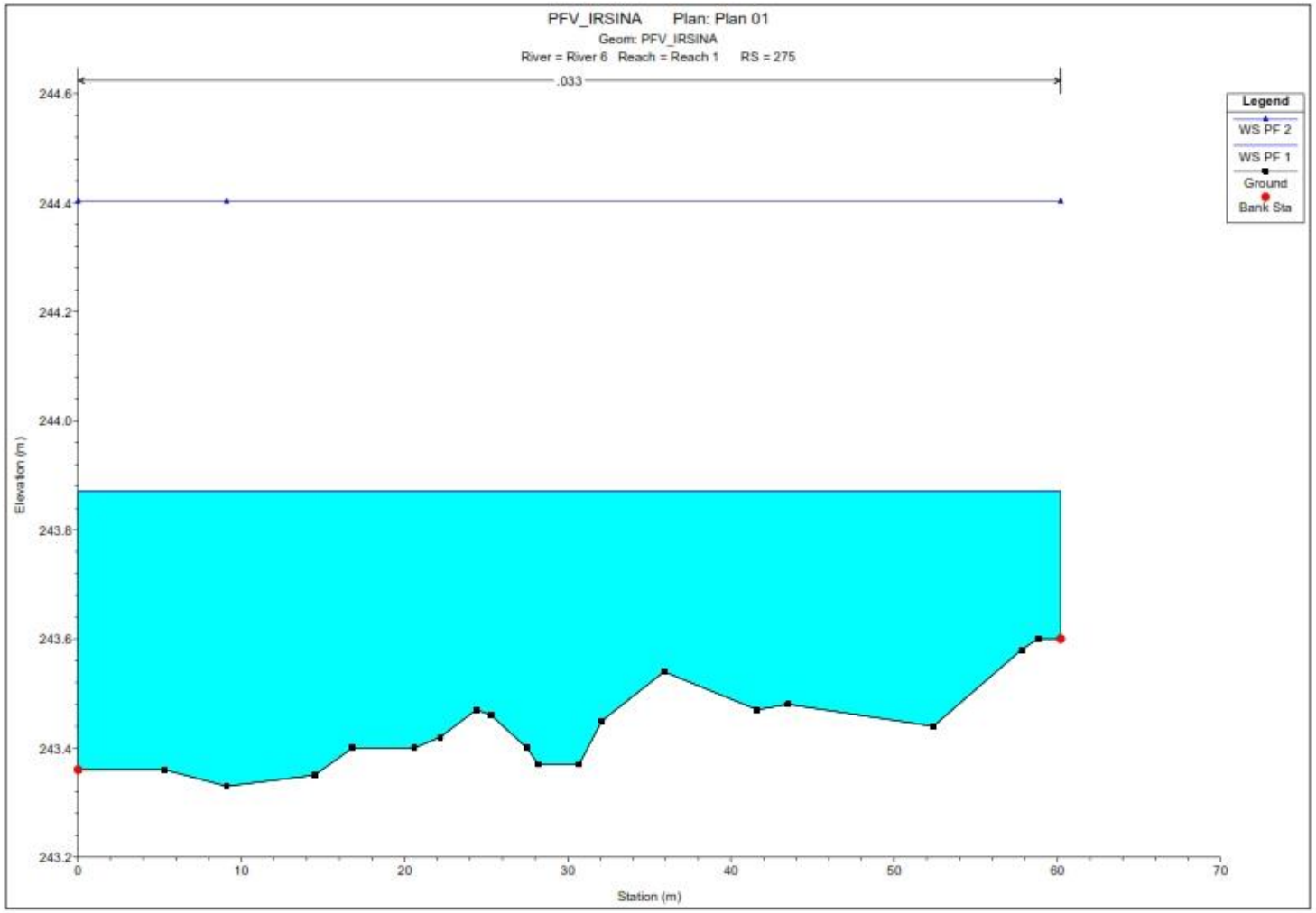

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 71
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
242.7
242.6
242.5
242.4
242.3
242.2
242.1
242.0
0
5
10
15
20
25
30
35
40

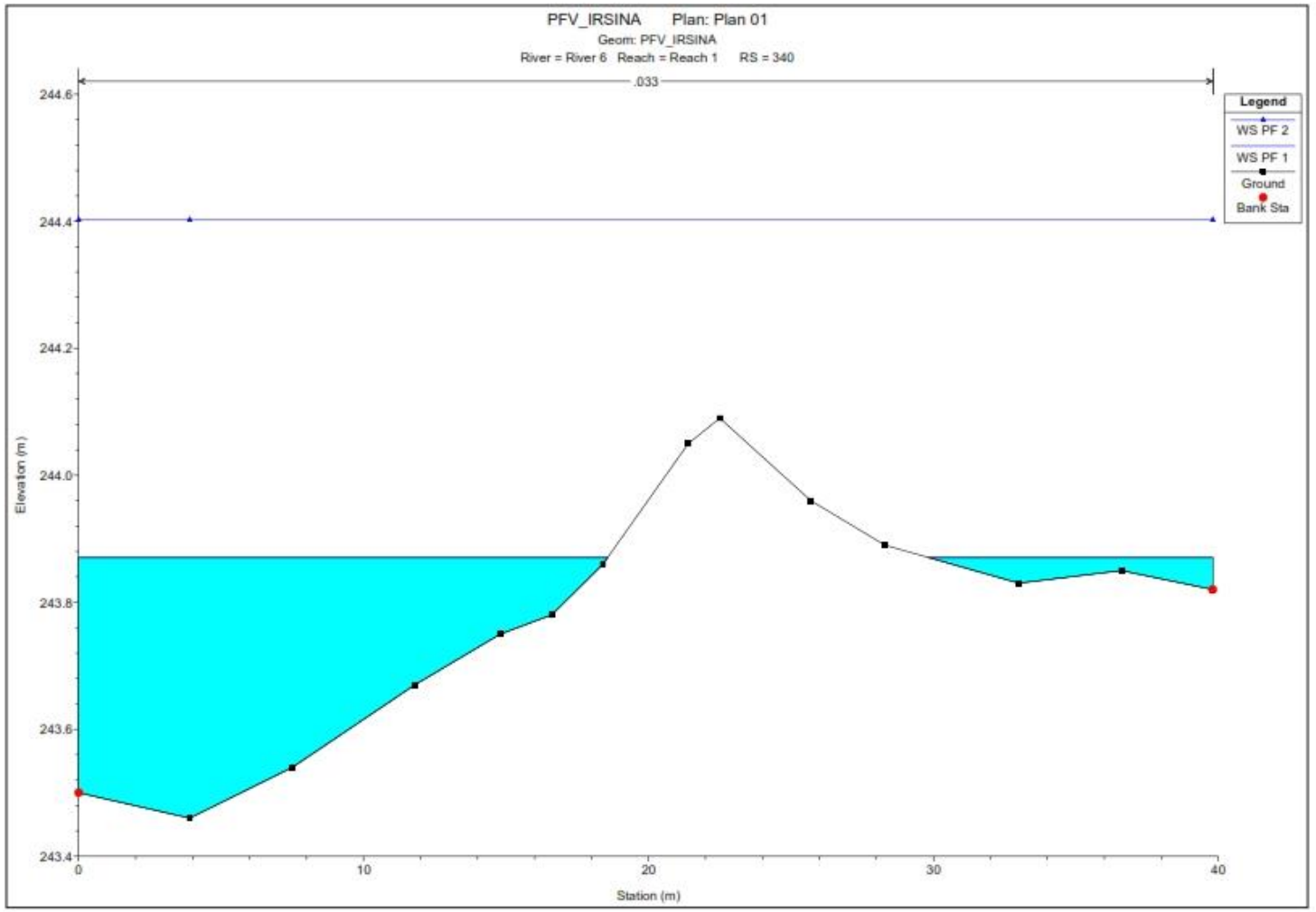

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 133
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
242.9
242.8
242.7
242.6
242.5
242.4
242.3
242.2
0
10
20
30
40
50

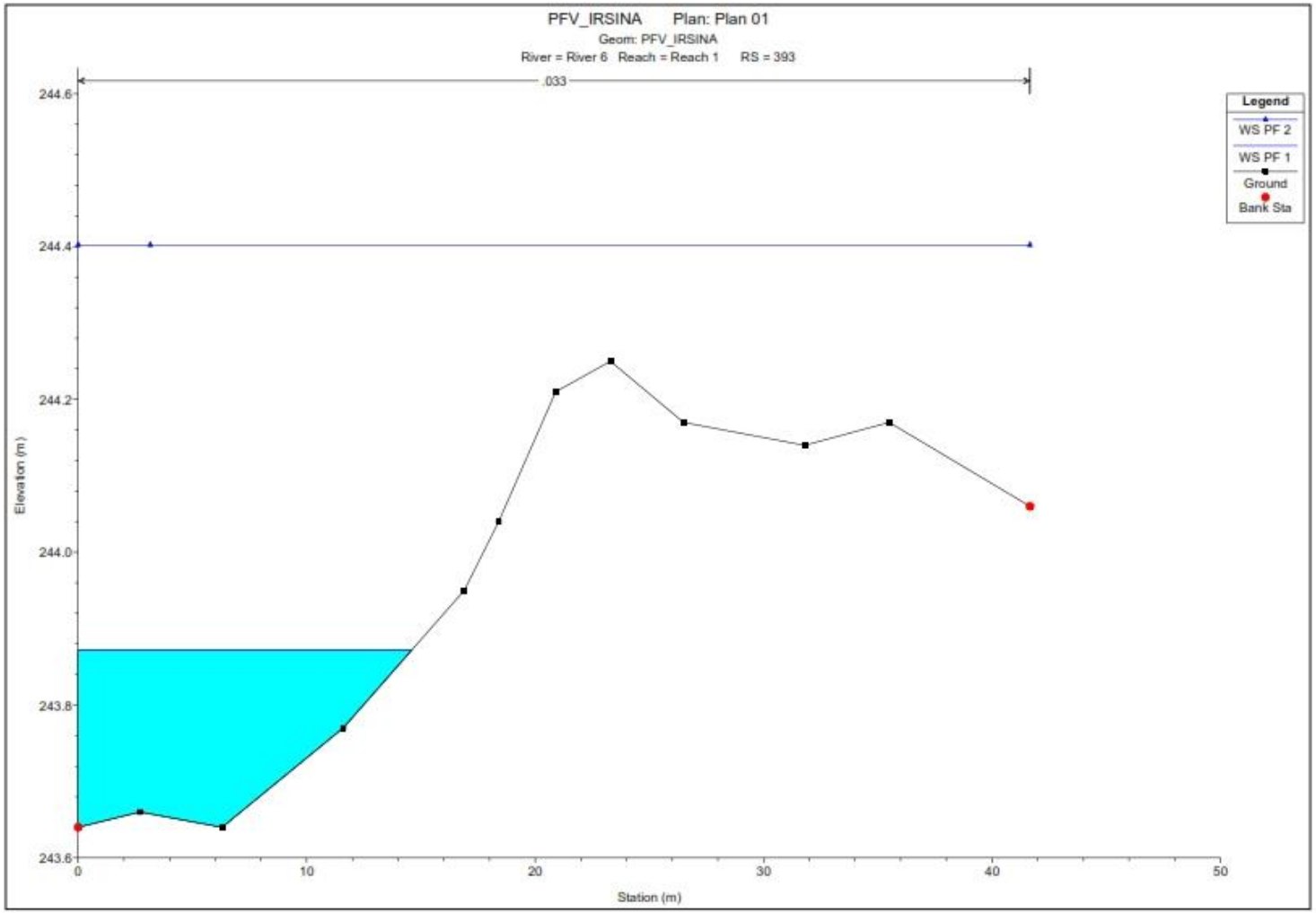

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 189
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
243.2
243.1
243.0
242.9
242.8
242.7
242.6
242.5
0
10
20
30
40

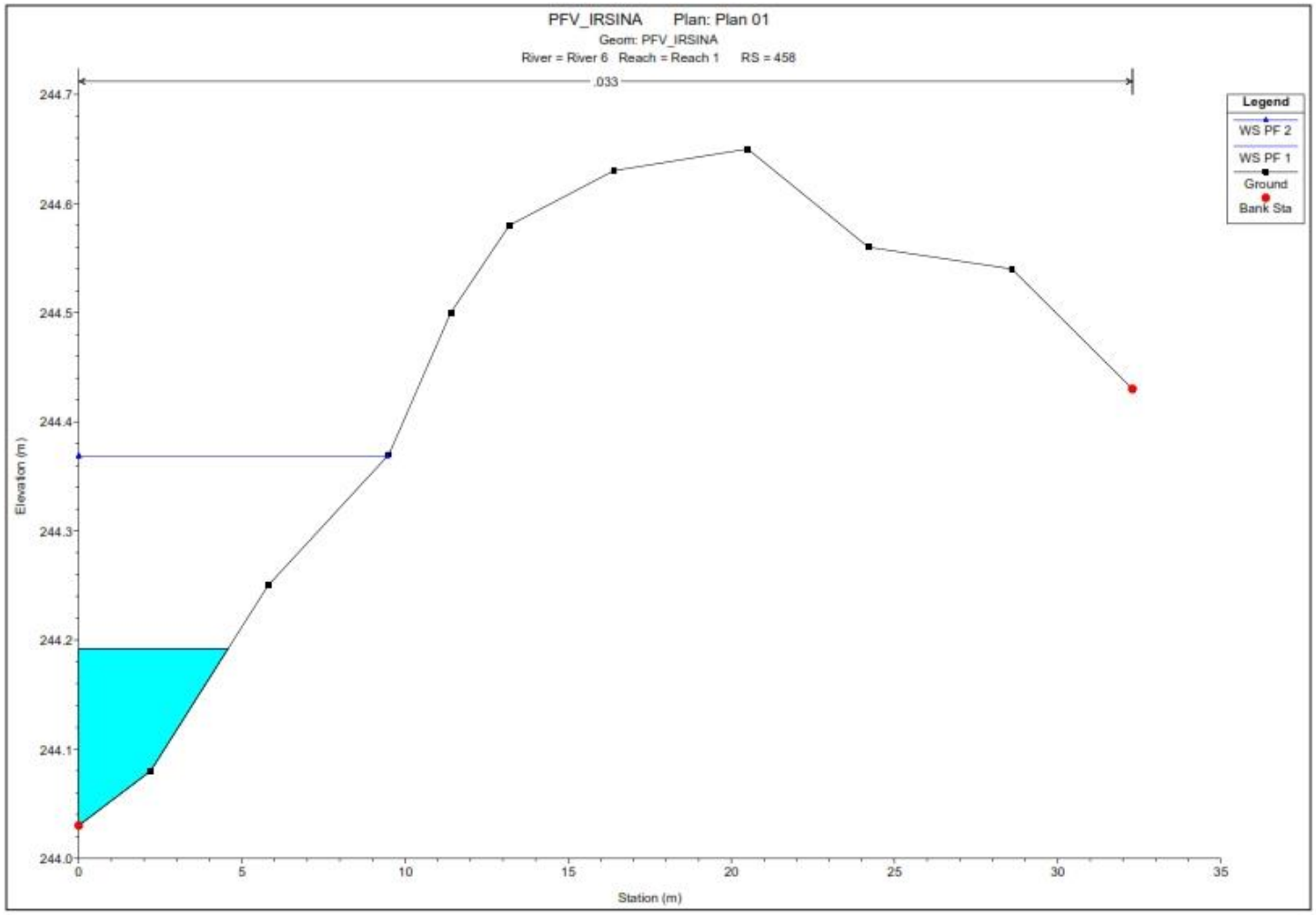

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 200 Culv
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
245.0
244.5
244.0
243.5
243.0
242.5
Elevation (m)
0
10
20
30
40
Station (m)

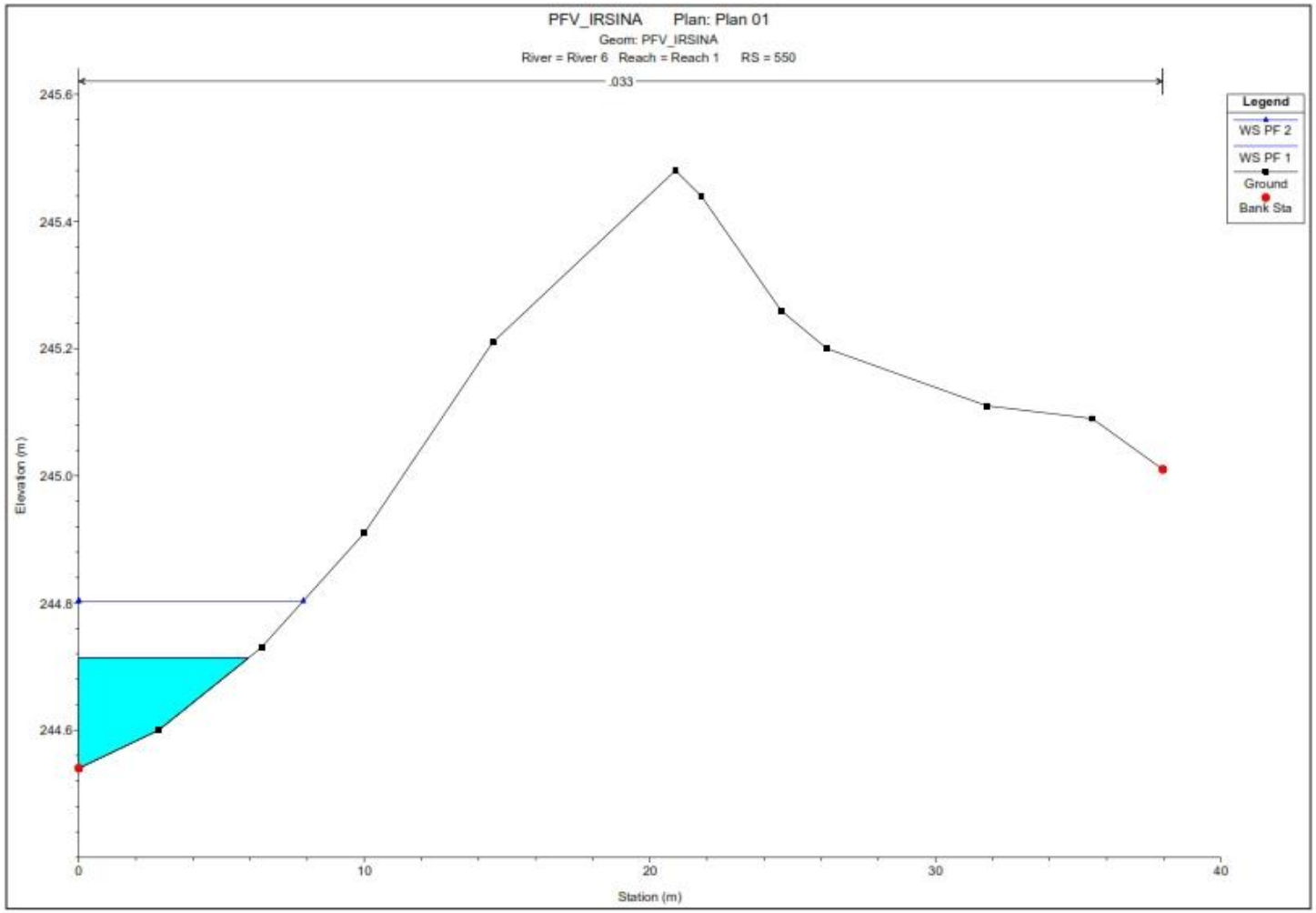

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 200 Culv
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
245.0
244.8
244.6
244.4
244.2
244.0
243.8
243.6
243.4
243.2
0
10
20
30
40
50
60
70
Station (m)

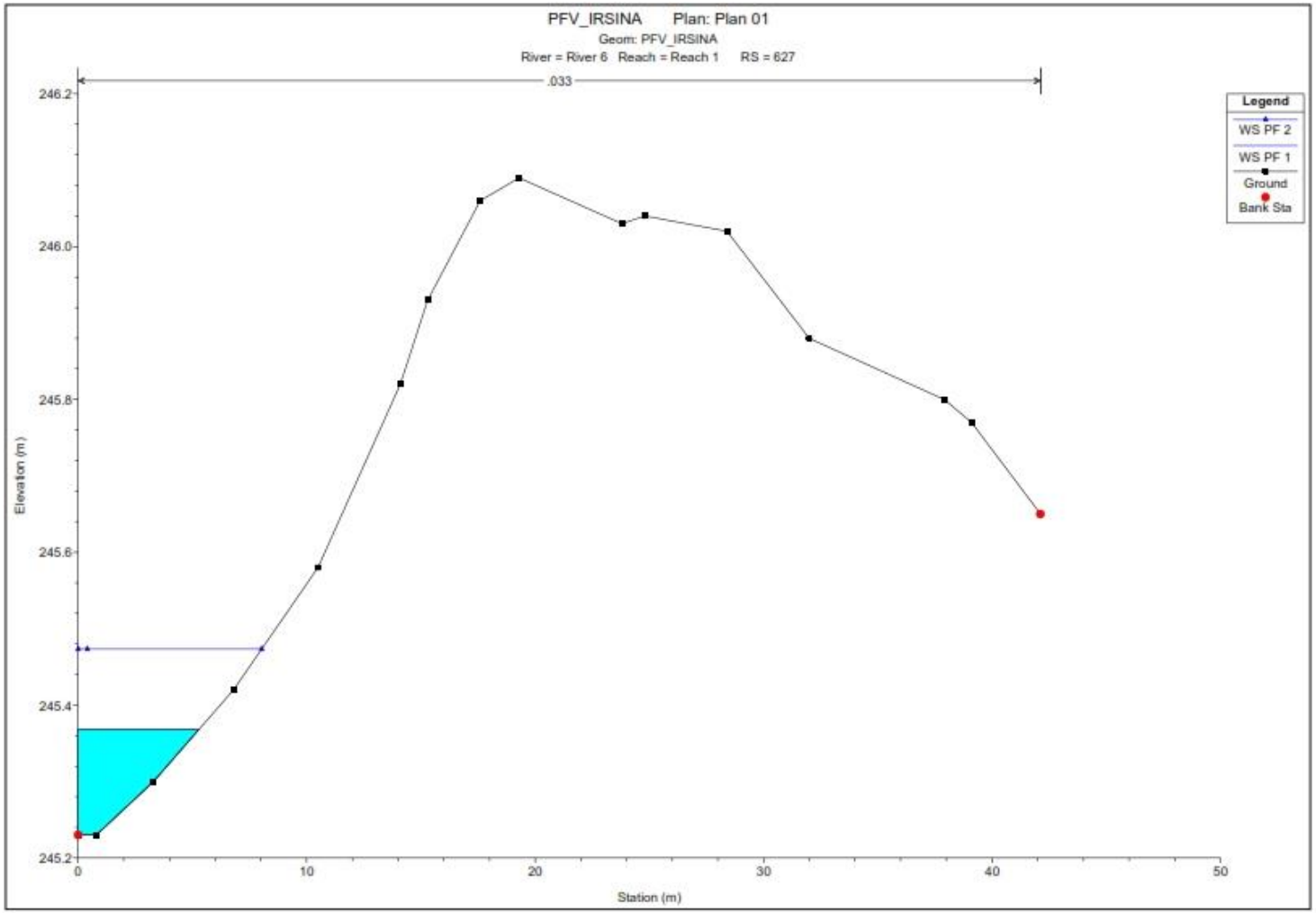

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 275
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
244.6
244.4
244.2
244.0
243.8
243.6
243.4
243.2
0
10
20
30
40
50
60
70
Station (m)

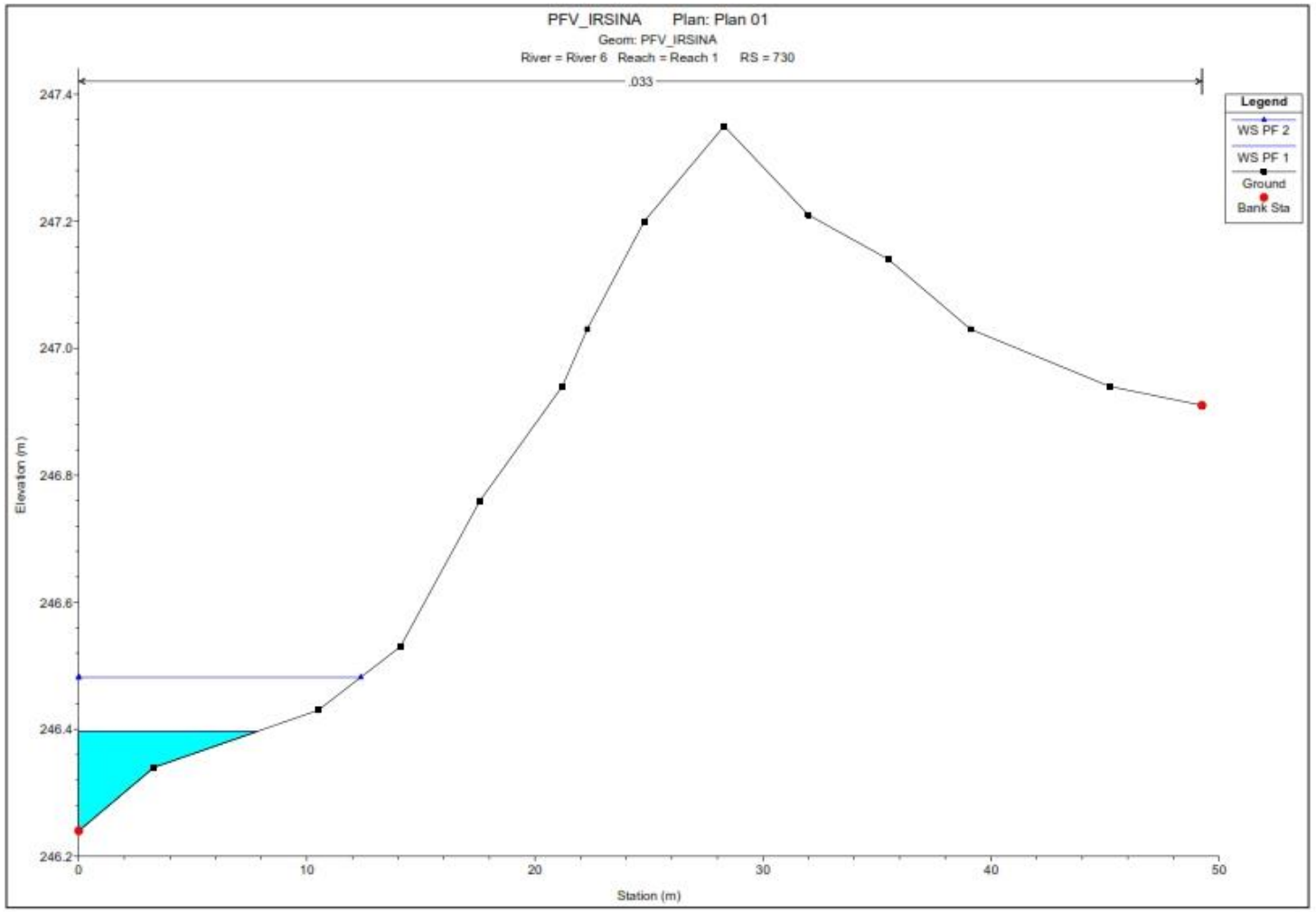

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 340
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
244.6
244.4
244.2
244.0
243.8
243.6
243.4
0
10
20
30
40
Station (m)

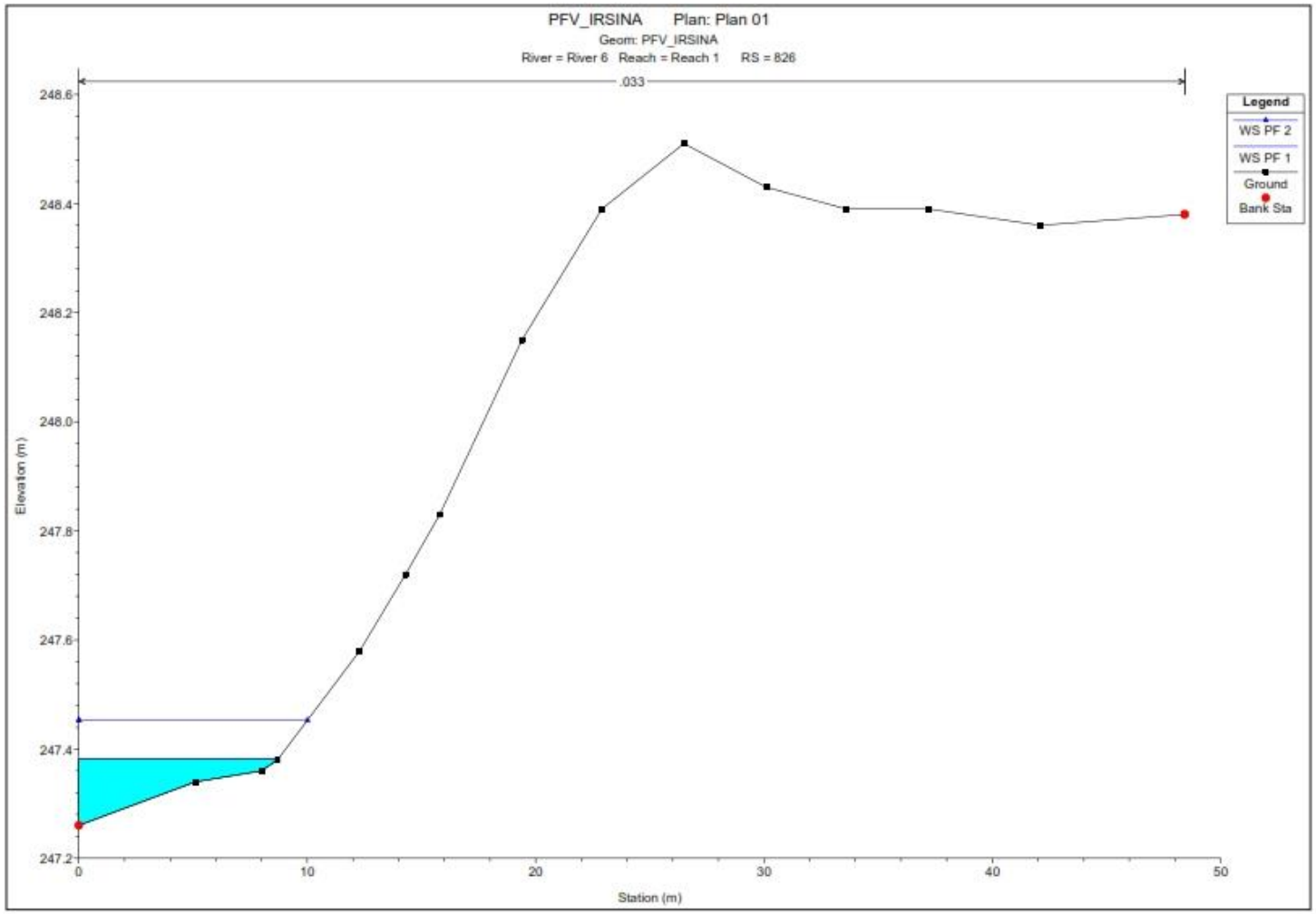

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 393
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
244.6
244.4
244.2
244.0
243.8
243.6
0
10
20
30
40
50
Station (m)

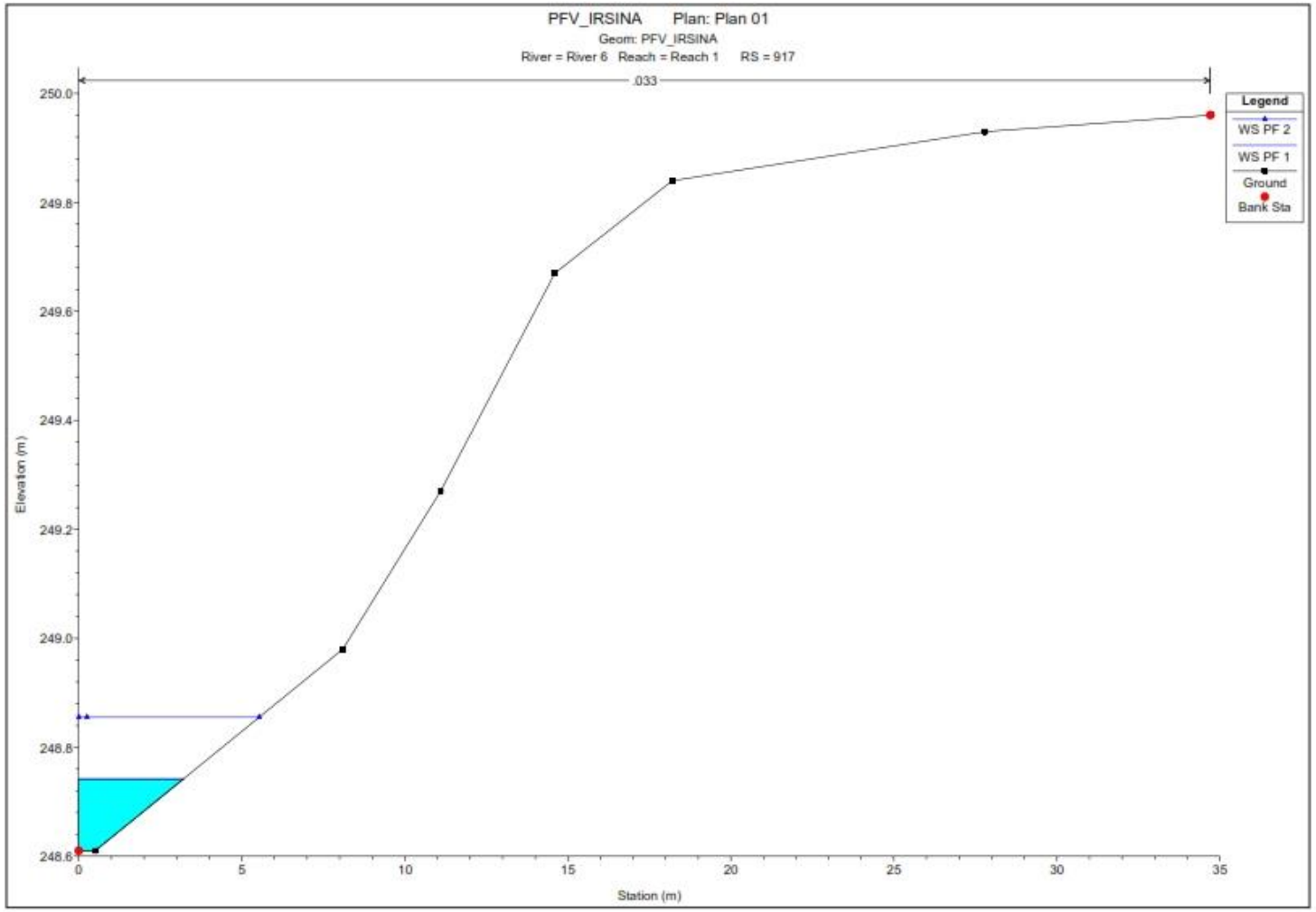

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 458
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
244.7
244.6
244.5
244.4
244.3
244.2
244.1
244.0
0
5
10
15
20
25
30
35

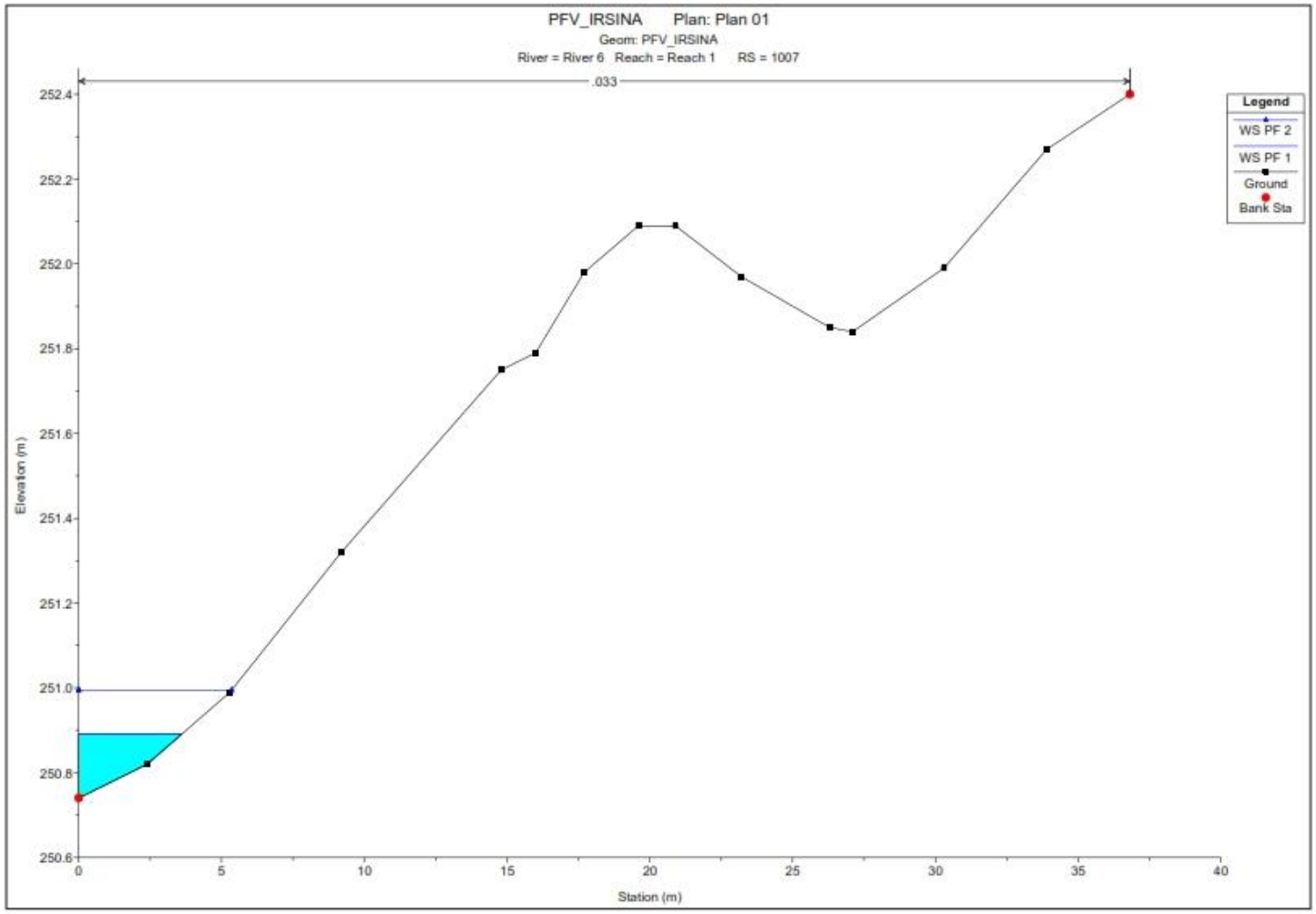

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 550
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
245.6
245.4
245.2
245.0
244.8
244.6
0
10
20
30
40
Station (m)

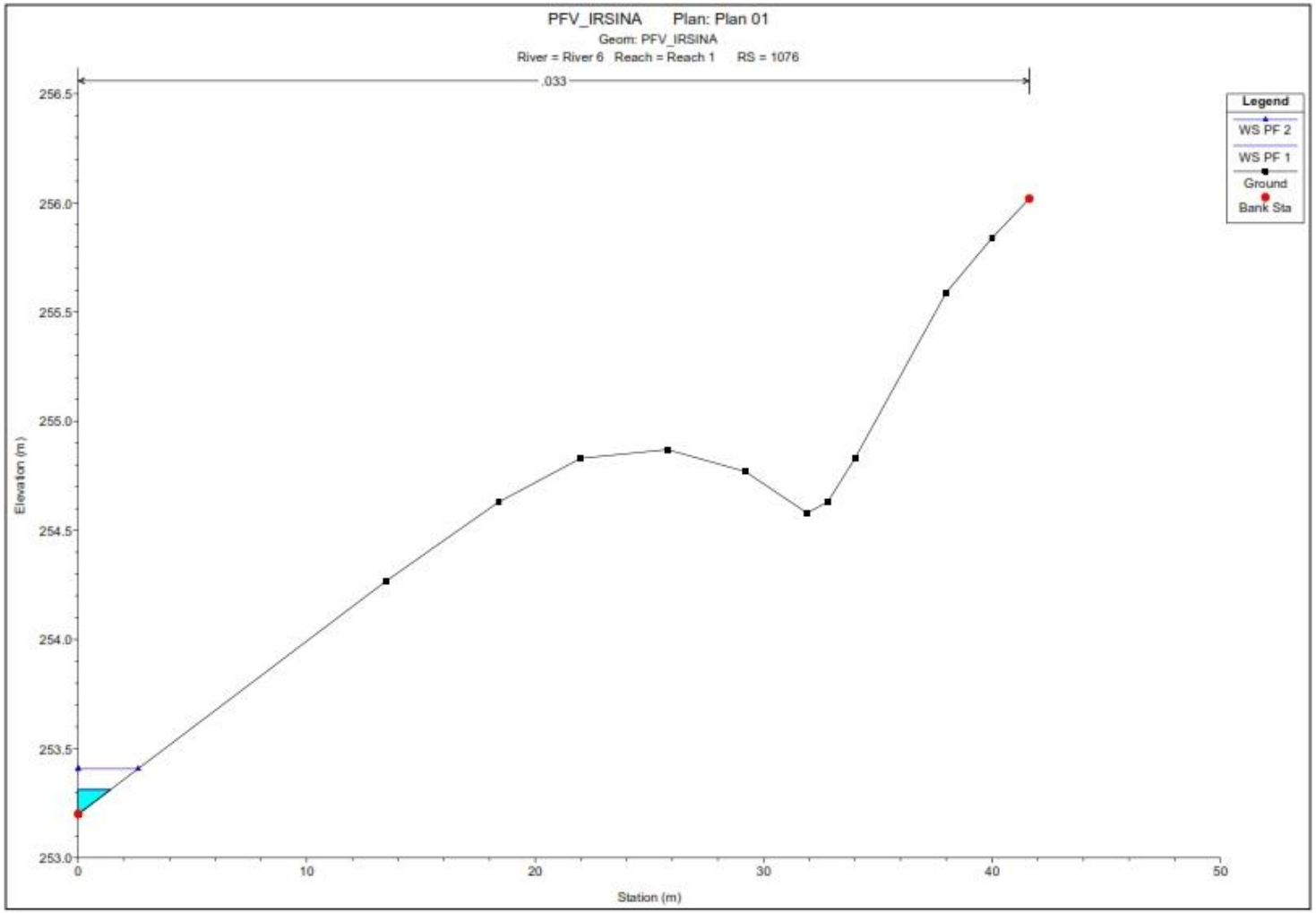

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 627
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
246.2
246.0
245.8
245.6
245.4
245.2
0
10
20
30
40
50
Station (m)

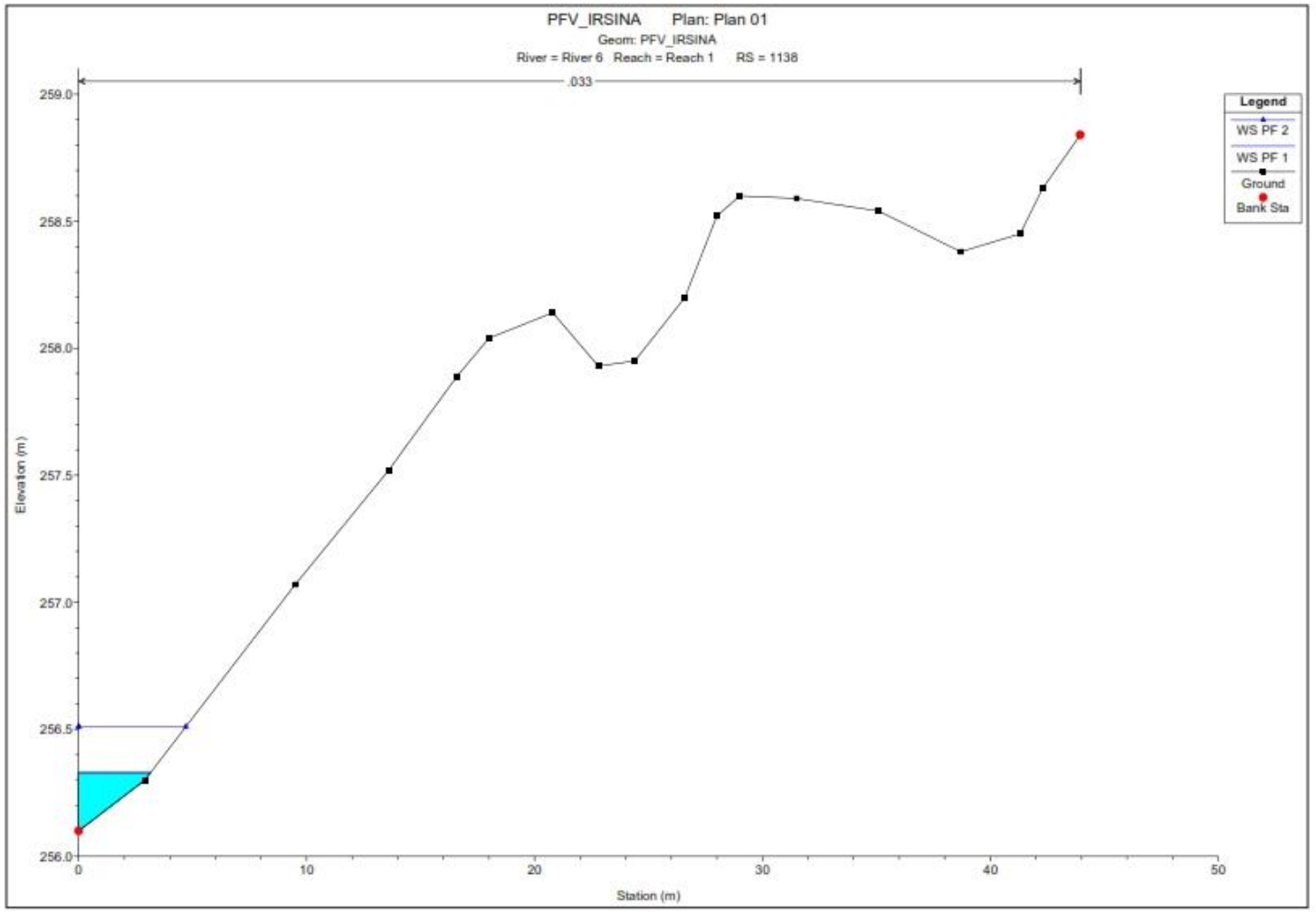

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 730
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
247.4
247.2
247.0
246.8
246.6
246.4
246.2
0
10
20
30
40
50
Station (m)

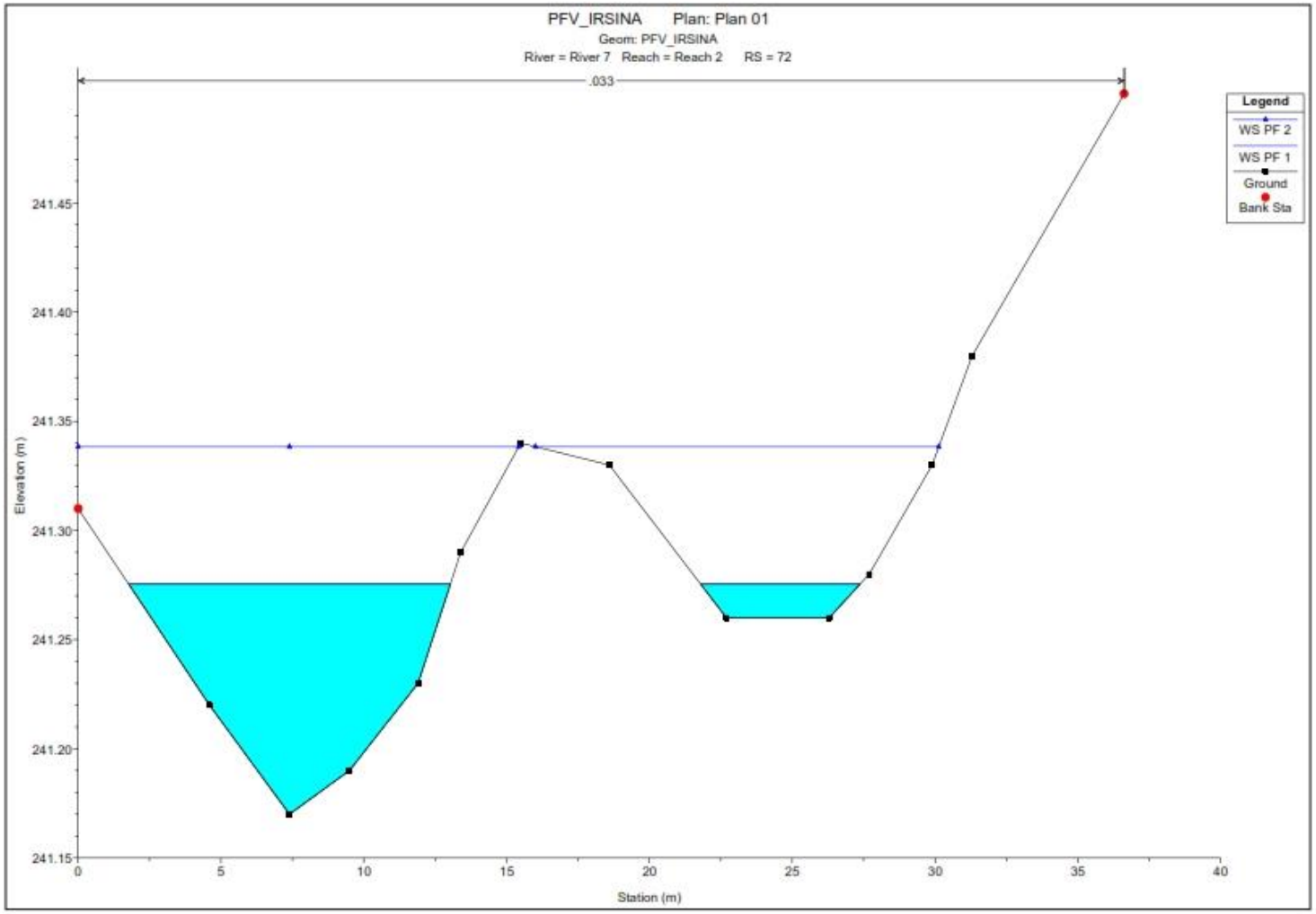

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 826
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
248.6
248.4
248.2
248.0
247.8
247.6
247.4
247.2
0
10
20
30
40
50

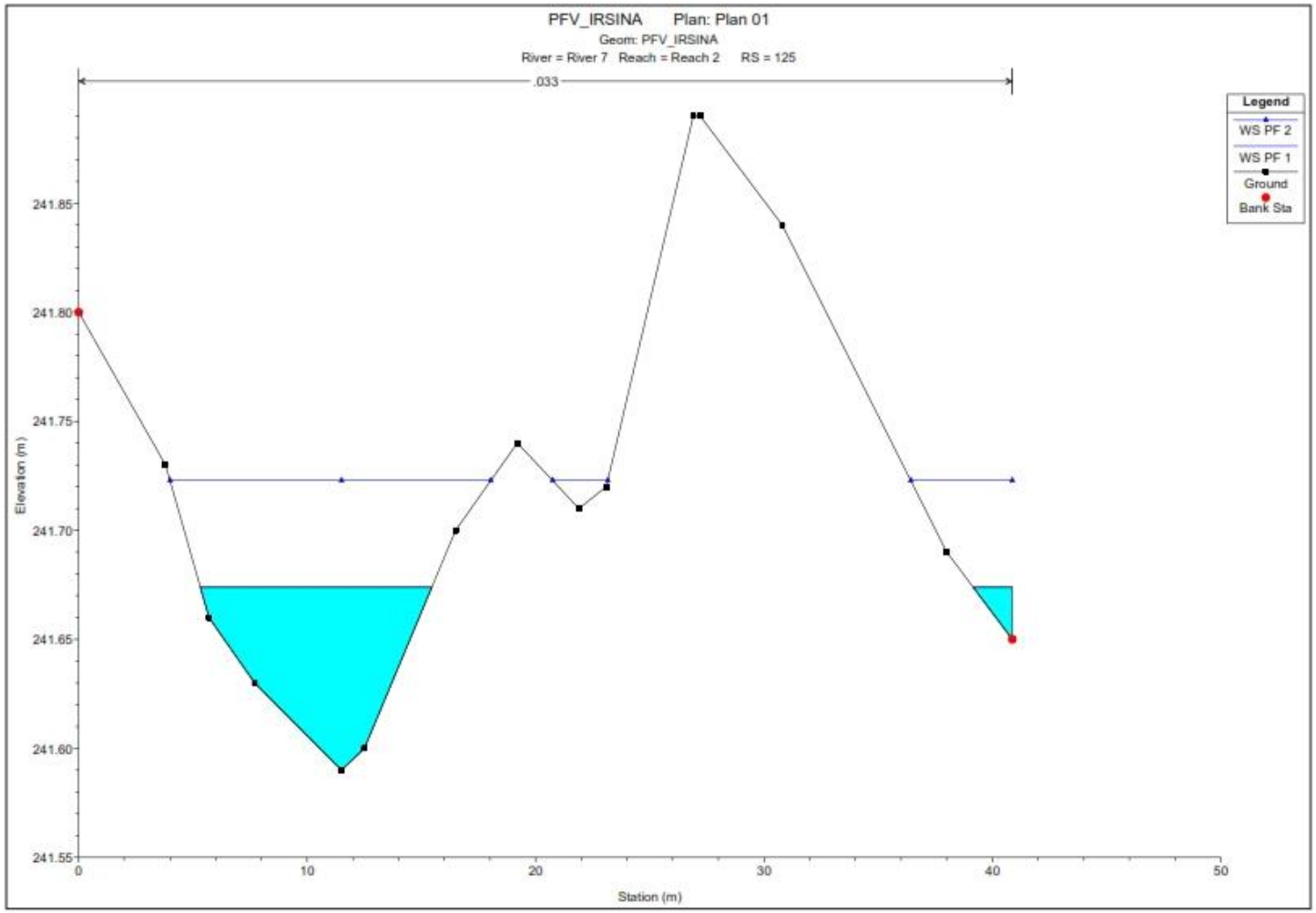

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 917
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
250.0
249.8
249.6
249.4
249.2
249.0
248.8
248.6
0
5
10
15
20
25
30
35

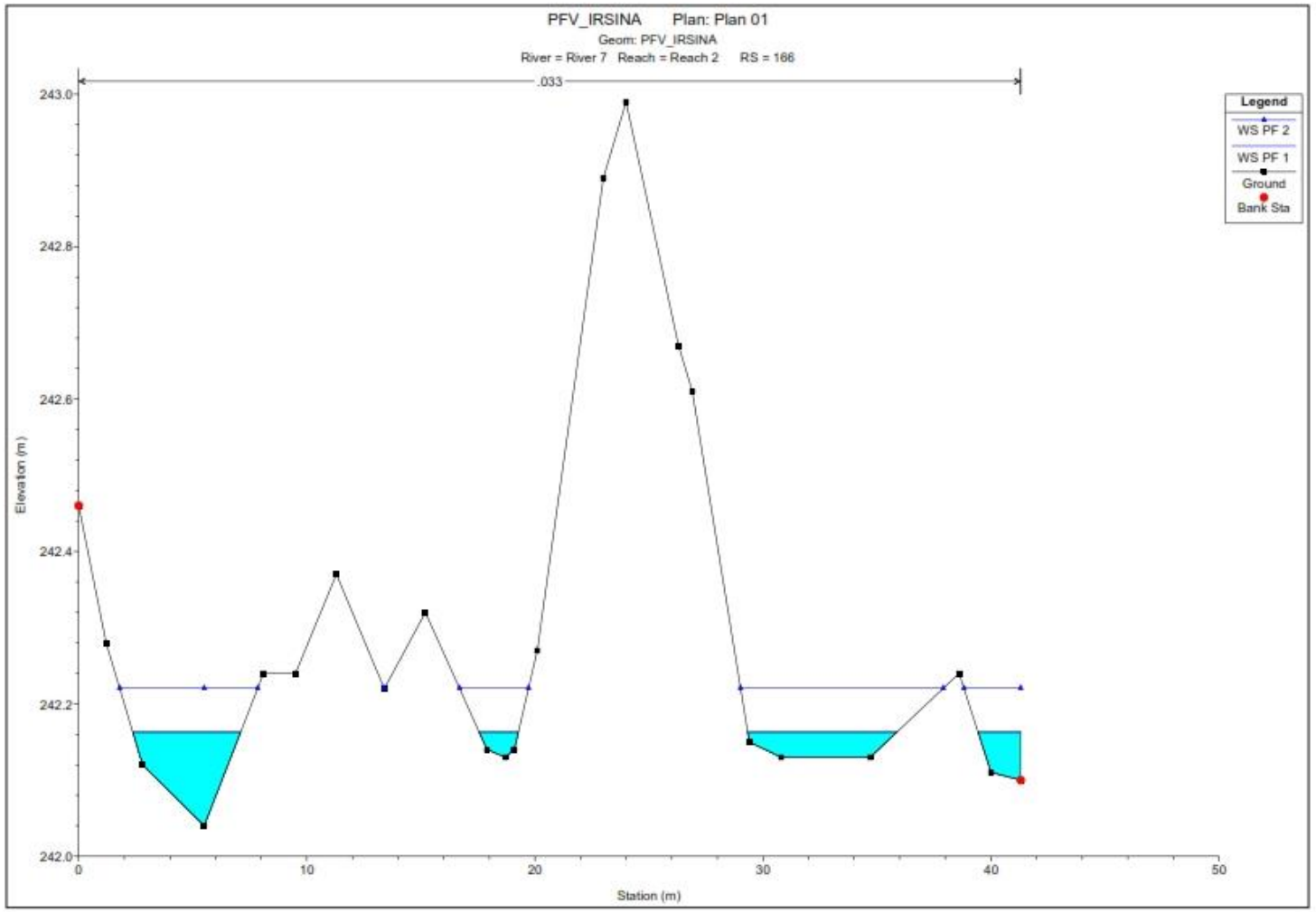

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 1007
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
252.4
252.2
252.0
251.8
251.6
251.4
251.2
251.0
250.8
250.6
0
5
10
15
20
25
30
35
40

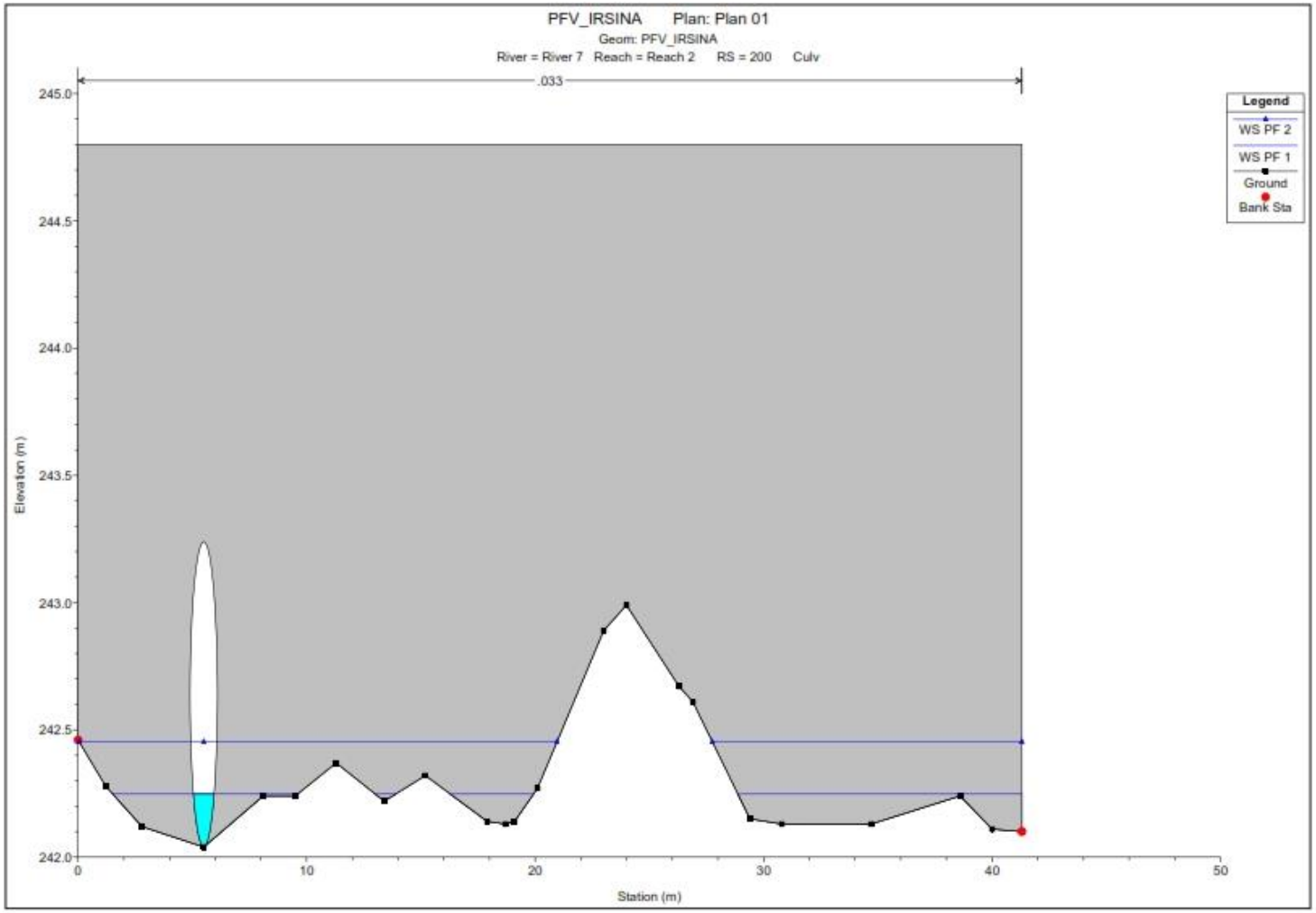

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 1076
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
256.5
256.0
255.5
255.0
254.5
254.0
253.5
253.0
0
10
20
30
40
50

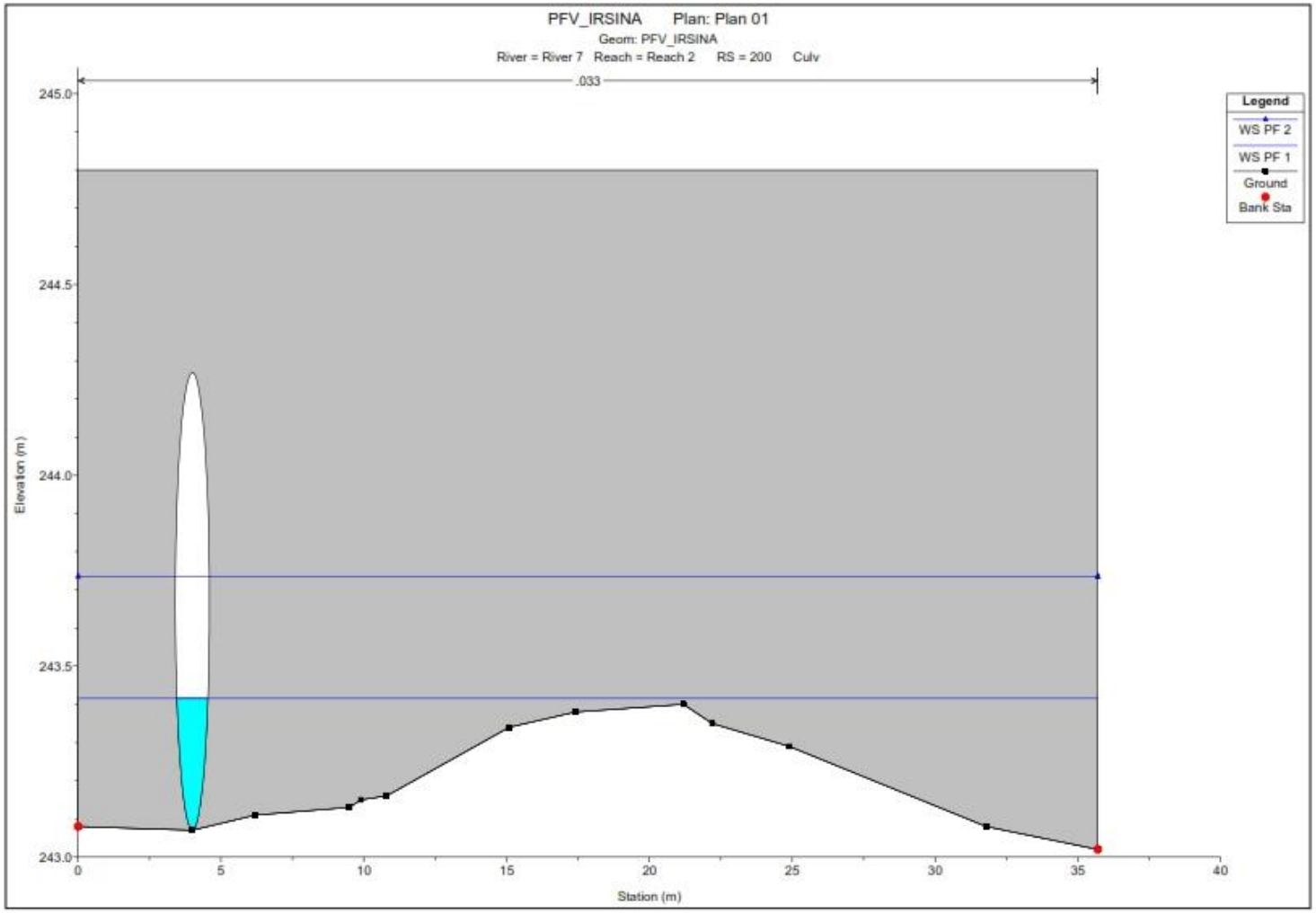

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 6 Reach = Reach 1 RS = 1138
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
259.0
258.5
258.0
257.5
257.0
256.5
256.0
0
10
20
30
40
50

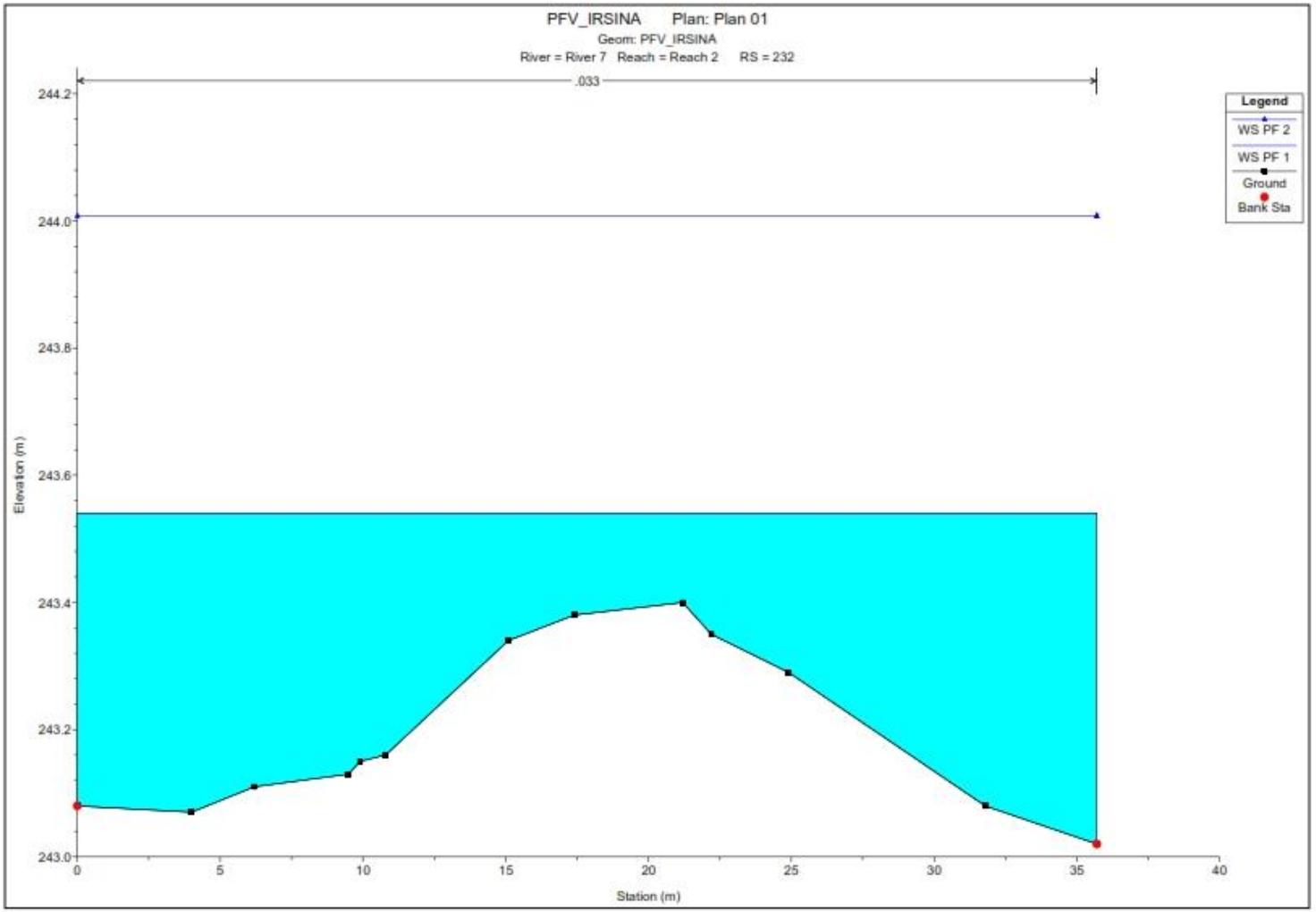

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 7 Reach = Reach 2 RS = 72
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
241.45
241.40
241.35
241.30
241.25
241.20
241.15
0
5
10
15
20
25
30
35
40
Station (m)

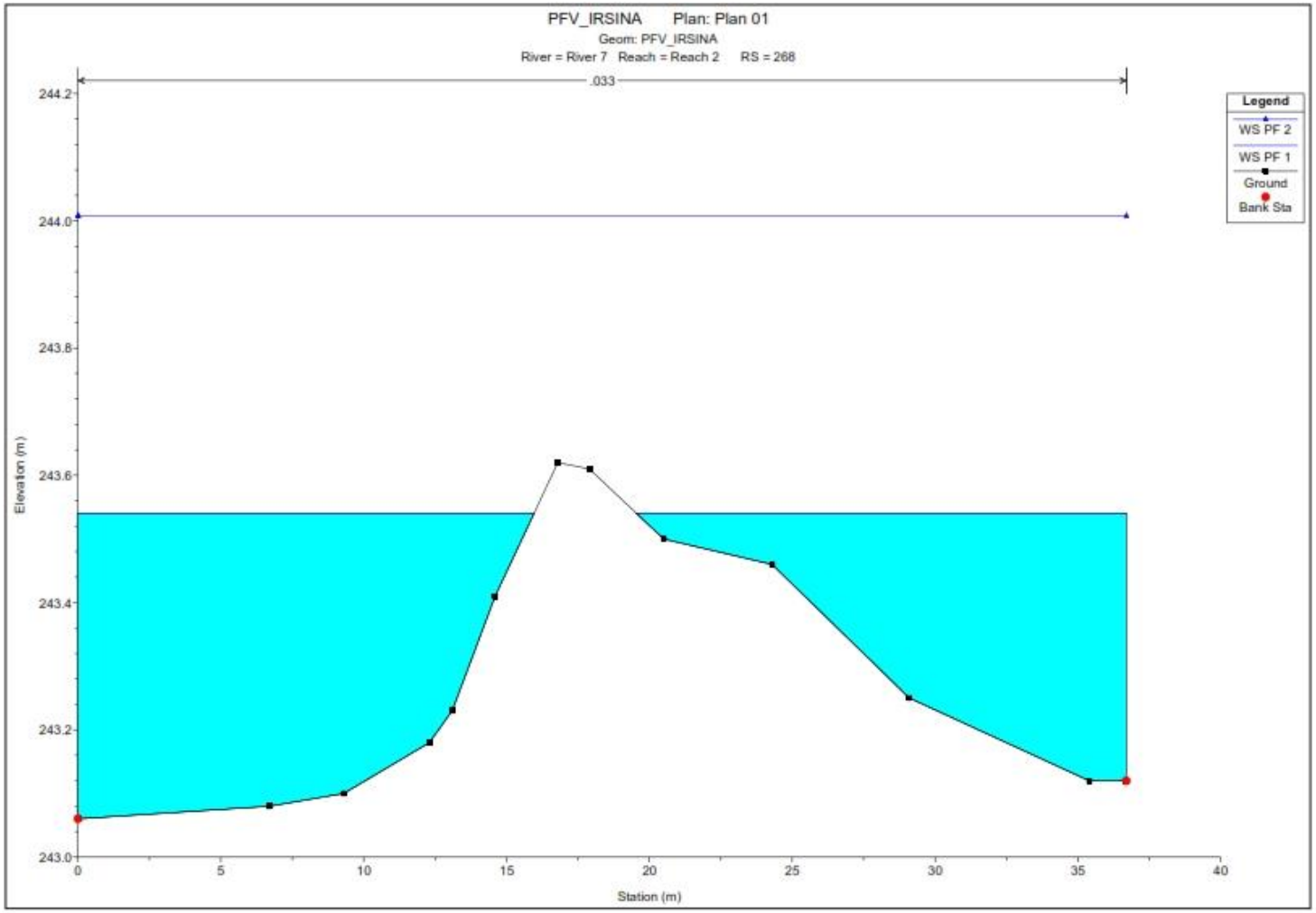

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 7 Reach = Reach 2 RS = 125
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
241.85
241.80
241.75
241.70
241.65
241.60
241.55
Elevation (m)
0
10
20
30
40
50
Station (m)

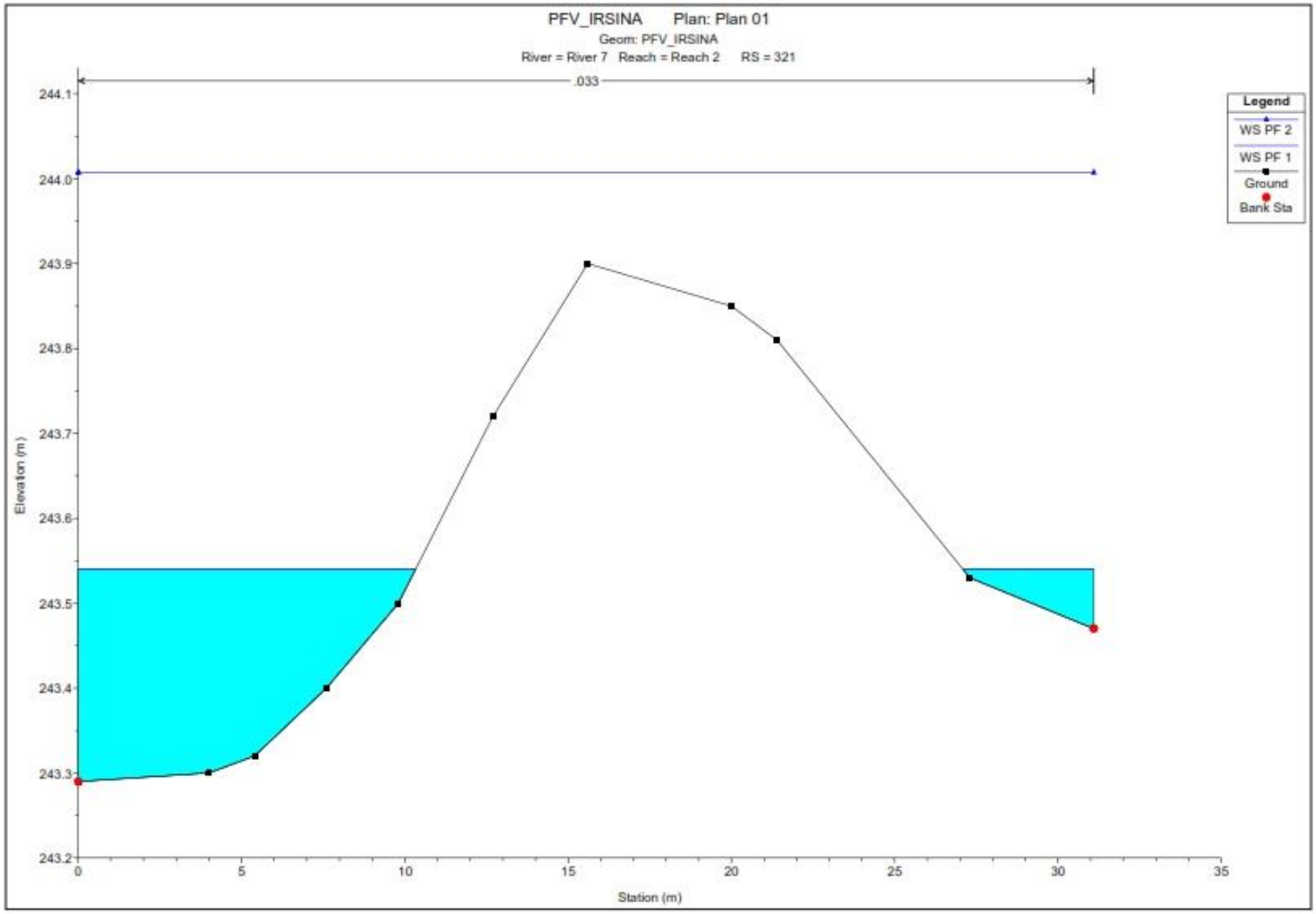

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 7 Reach = Reach 2 RS = 166
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
243.0
242.8
242.6
242.4
242.2
242.0
Elevation (m)
0
10
20
30
40
50
Station (m)

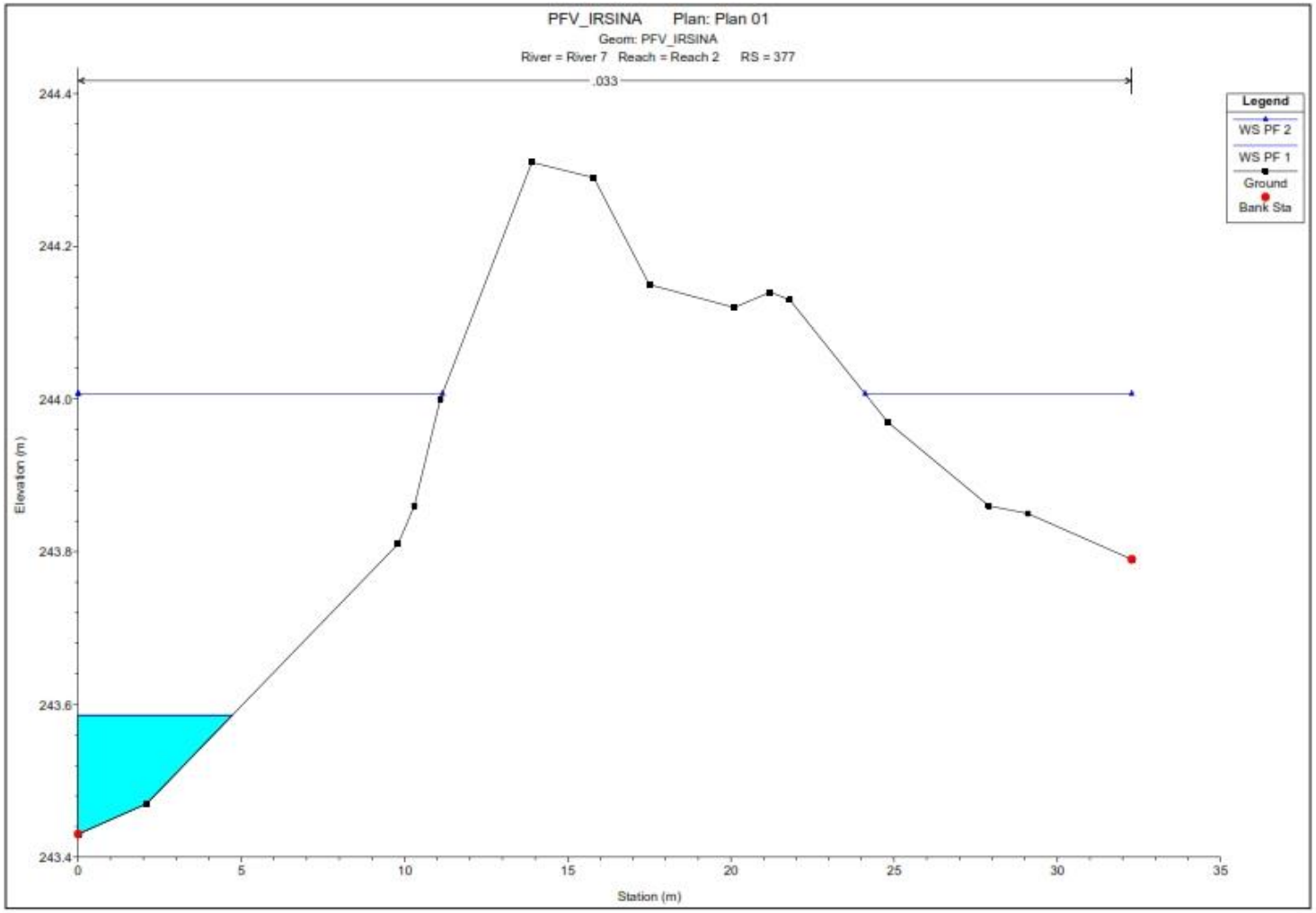

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 7 Reach = Reach 2 RS = 200 Culv
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
245.0
244.5
244.0
243.5
243.0
242.5
242.0
0
10
20
30
40
50
Station (m)

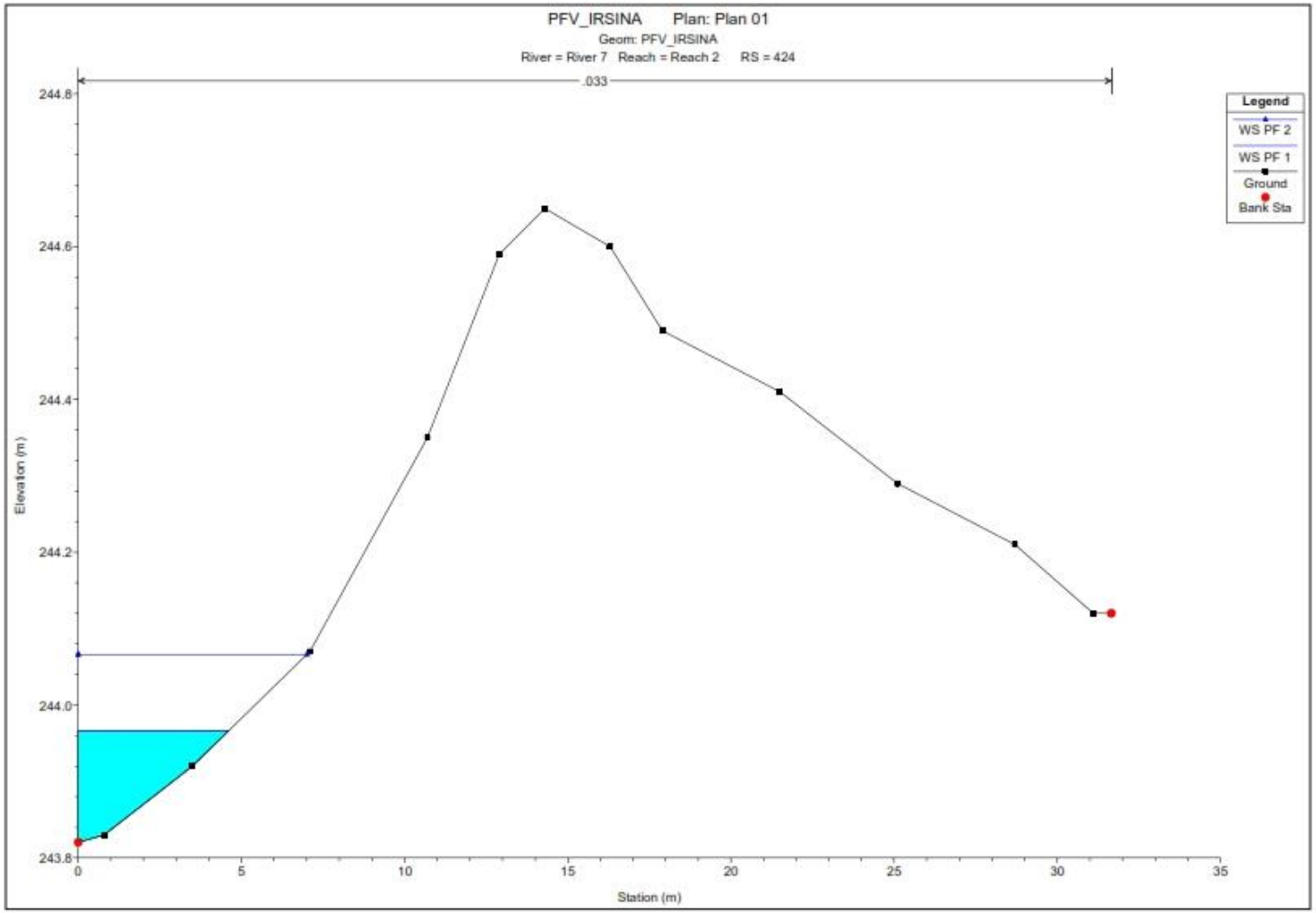

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 7 Reach = Reach 2 RS = 200 Culv
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
245.0
244.5
244.0
243.5
243.0
0
5
10
15
20
25
30
35
40
Station (m)

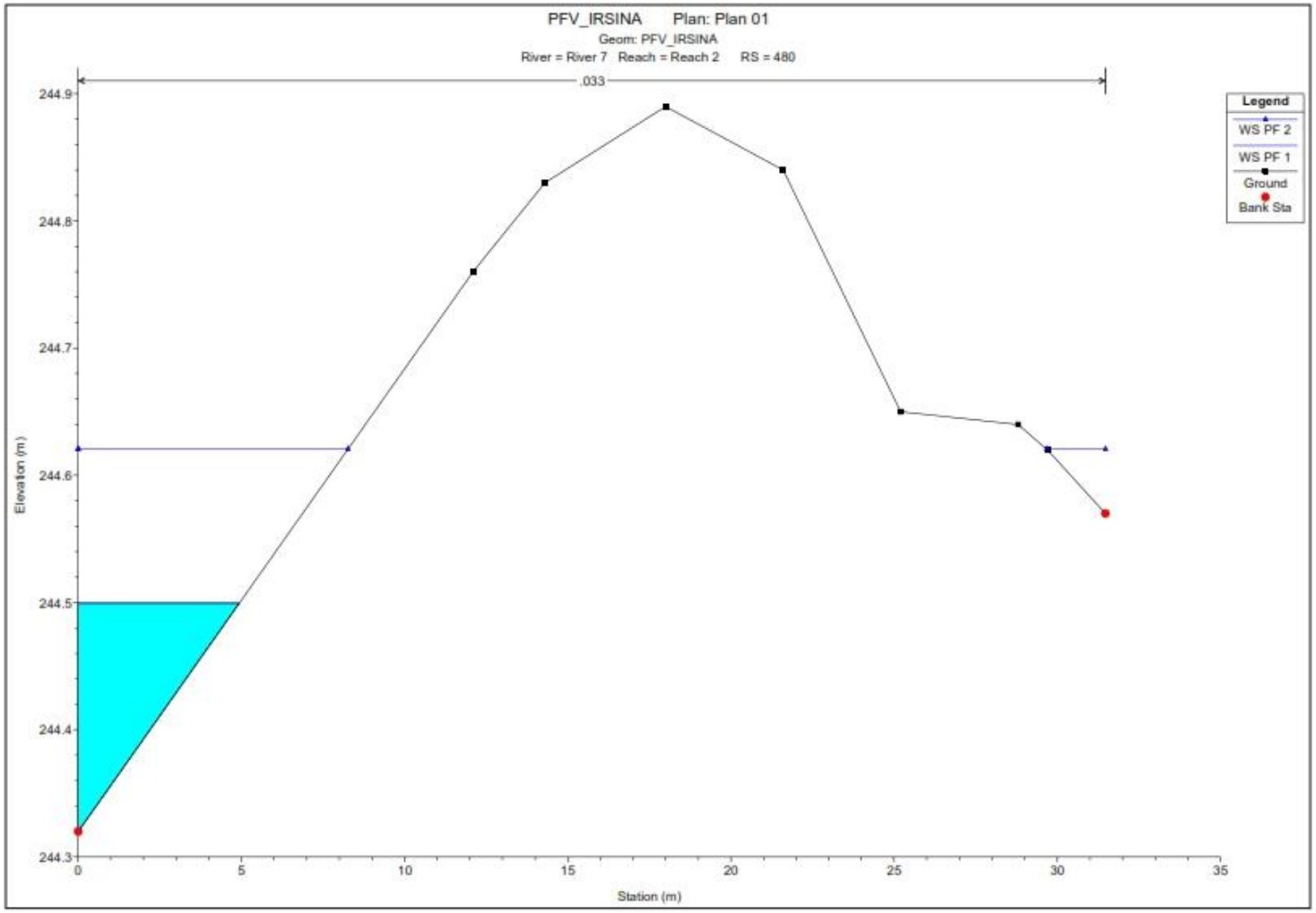

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 7 Reach = Reach 2 RS = 232
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
244.2
244.0
243.8
243.6
243.4
243.2
243.0
0
5
10
15
20
25
30
35
40

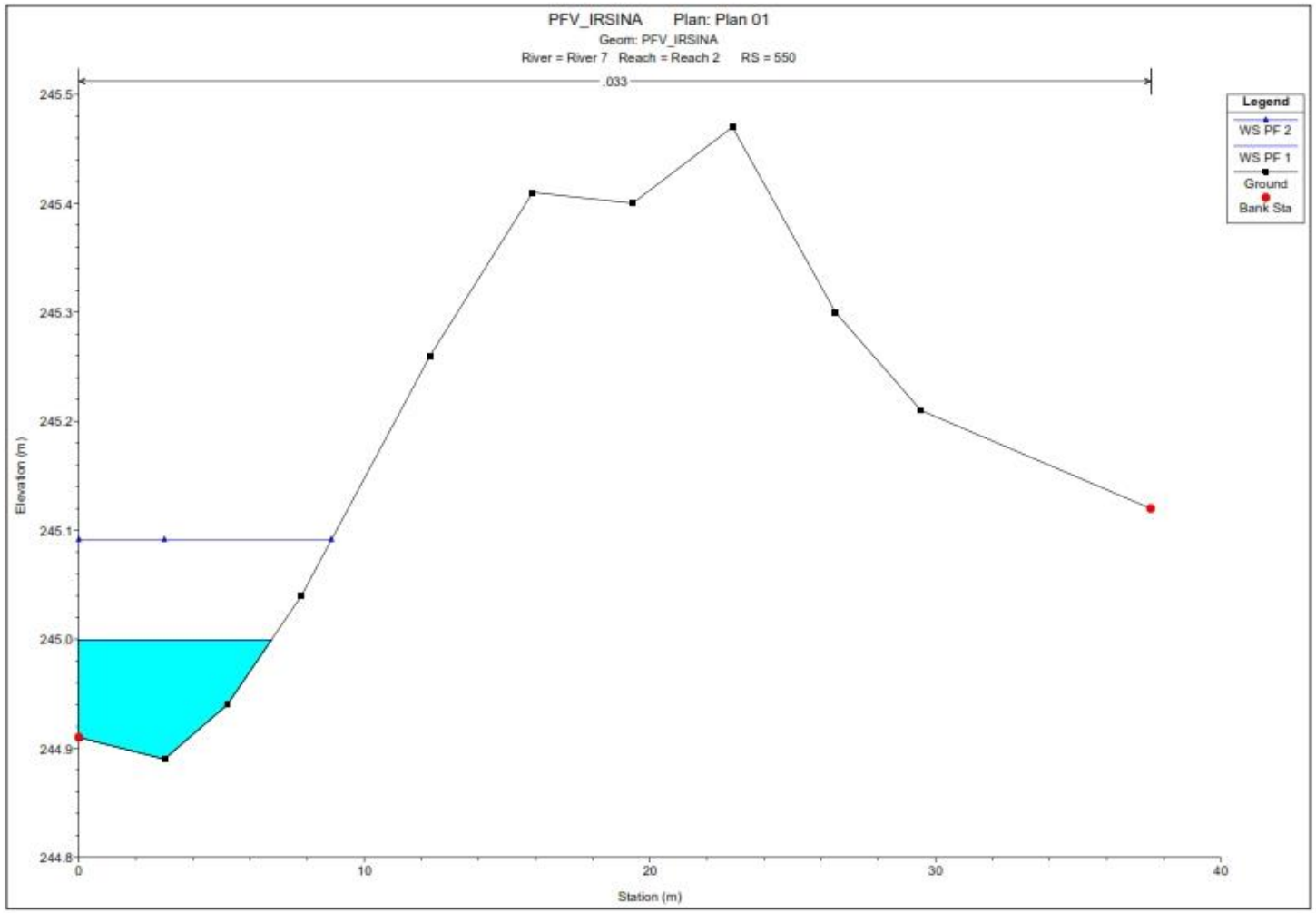

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 7 Reach = Reach 2 RS = 268
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
244.2
244.0
243.8
243.6
243.4
243.2
243.0
0
5
10
15
20
25
30
35
40

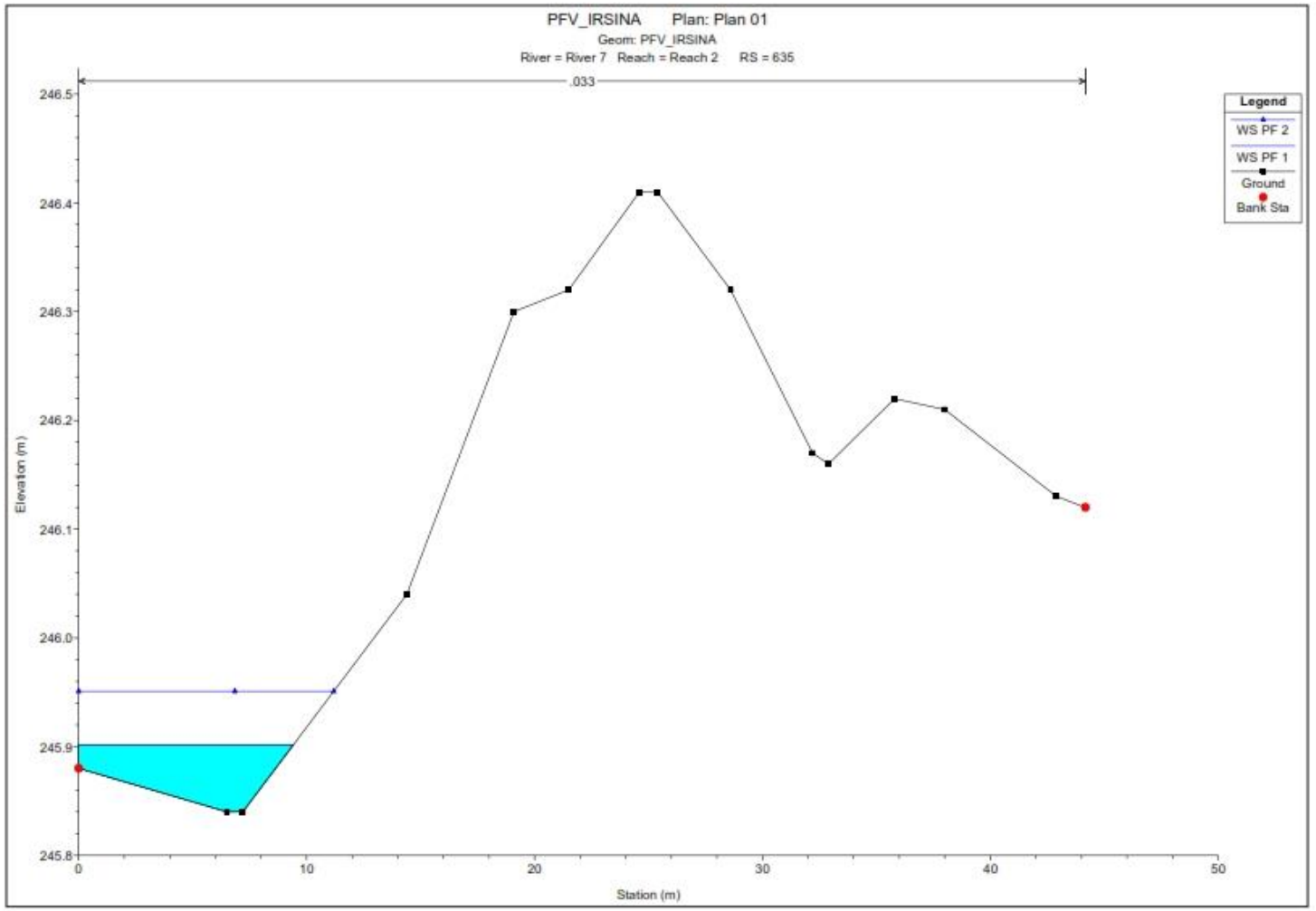

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 7 Reach = Reach 2 RS = 321
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
244.1
244.0
243.9
243.8
243.7
243.6
243.5
243.4
243.3
243.2
0
5
10
15
20
25
30
35

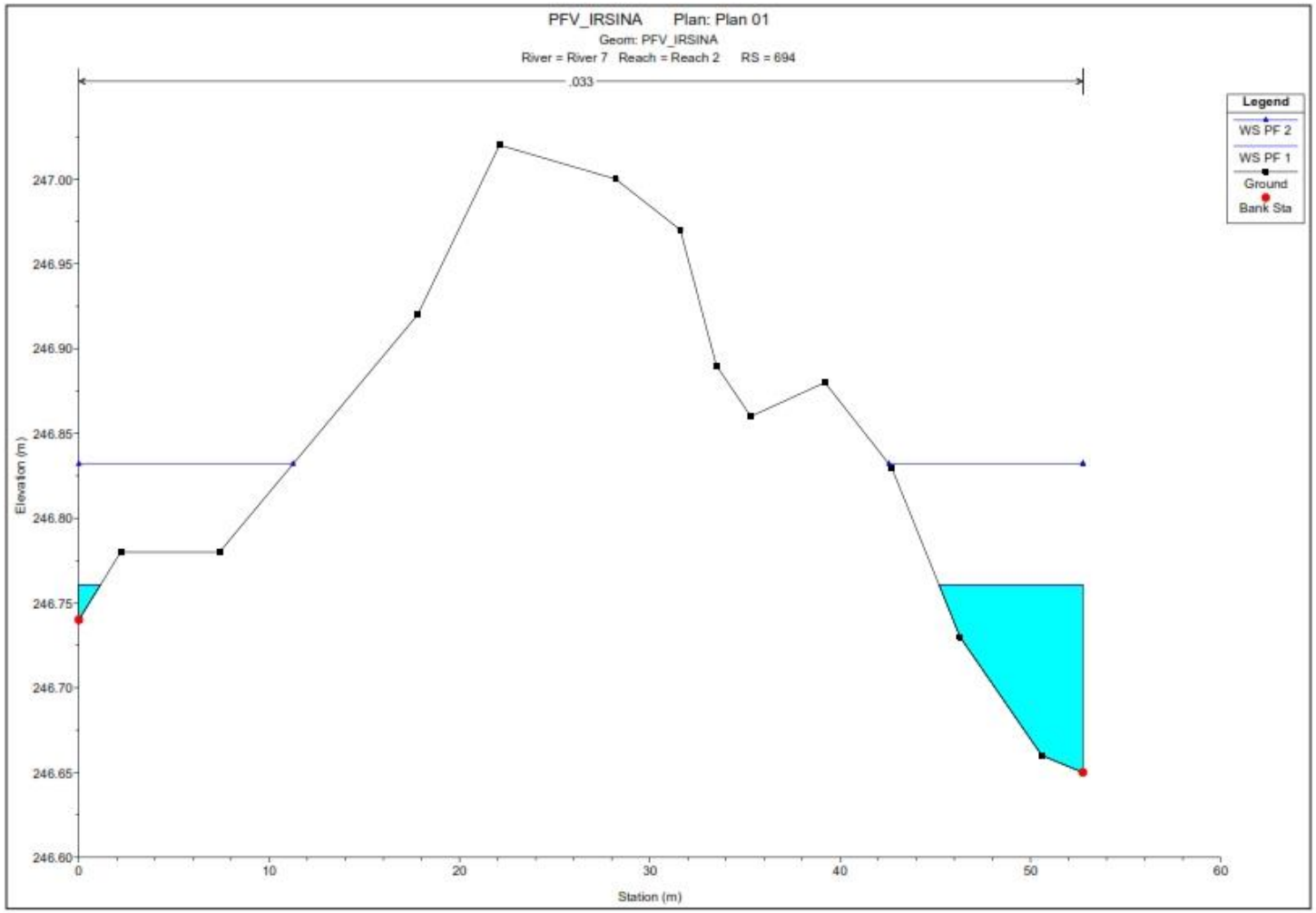

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 7 Reach = Reach 2 RS = 377
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
244.4
244.2
244.0
243.8
243.6
243.4
0
5
10
15
20
25
30
35
Station (m)

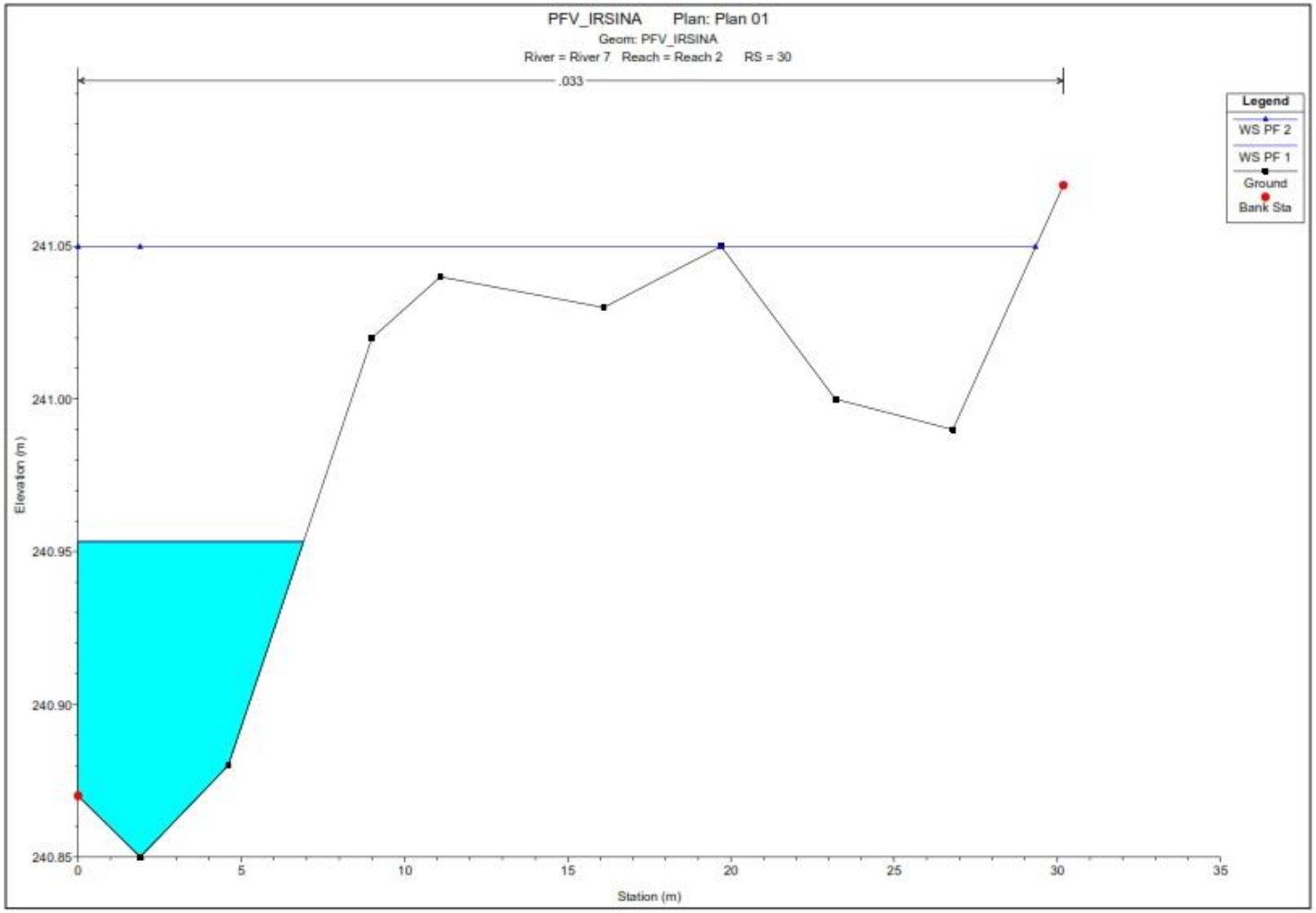

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 7 Reach = Reach 2 RS = 424
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
244.8
244.6
244.4
244.2
244.0
243.8
0
5
10
15
20
25
30
35
Station (m)


PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 7 Reach = Reach 2 RS = 480
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
244.9
244.8
244.7
244.6
244.5
244.4
244.3
0
5
10
15
20
25
30
35
Station (m)

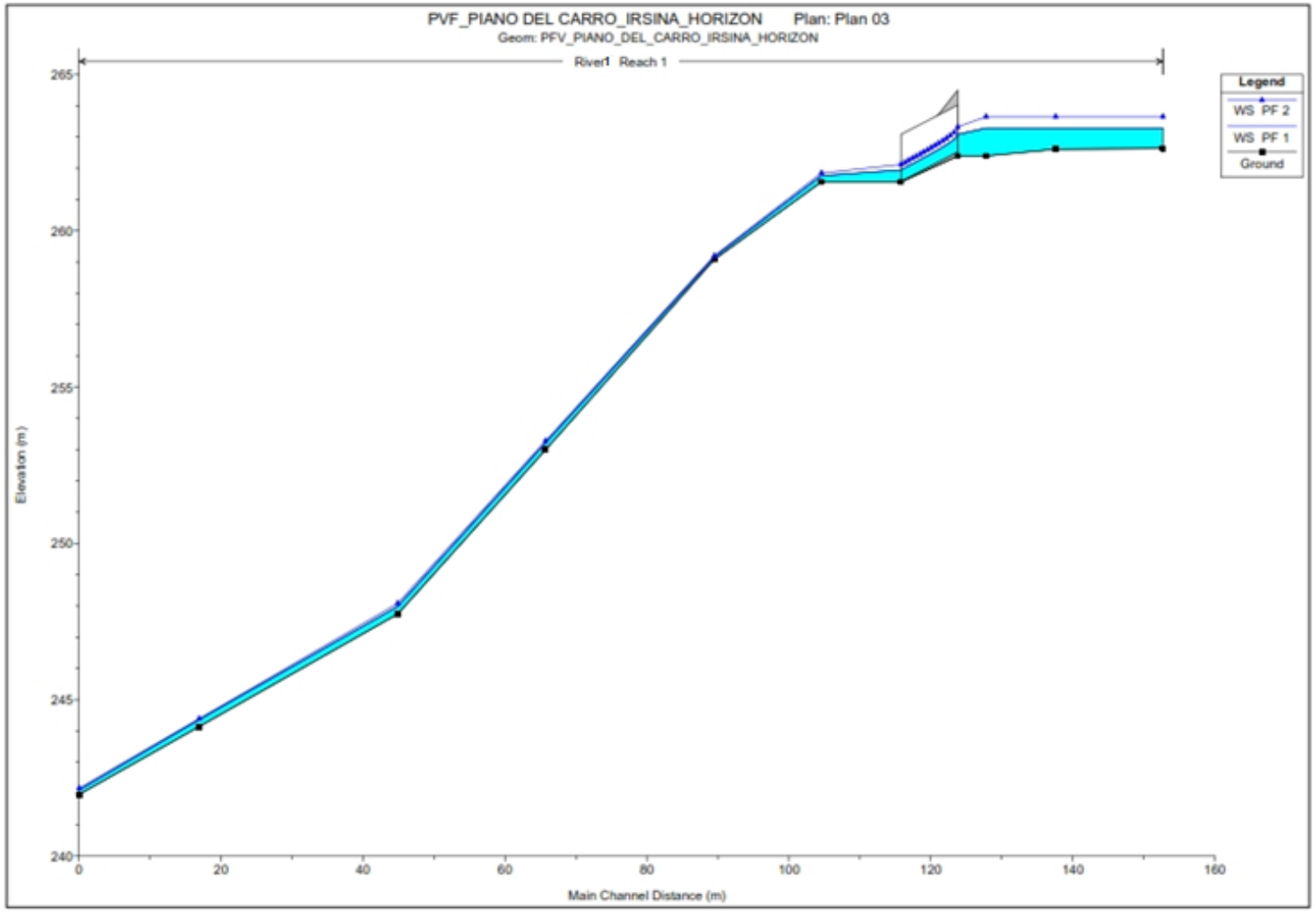

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 7 Reach = Reach 2 RS = 550
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
245.5
245.4
245.3
245.2
245.1
245.0
244.9
244.8
0
10
20
30
40
Station (m)

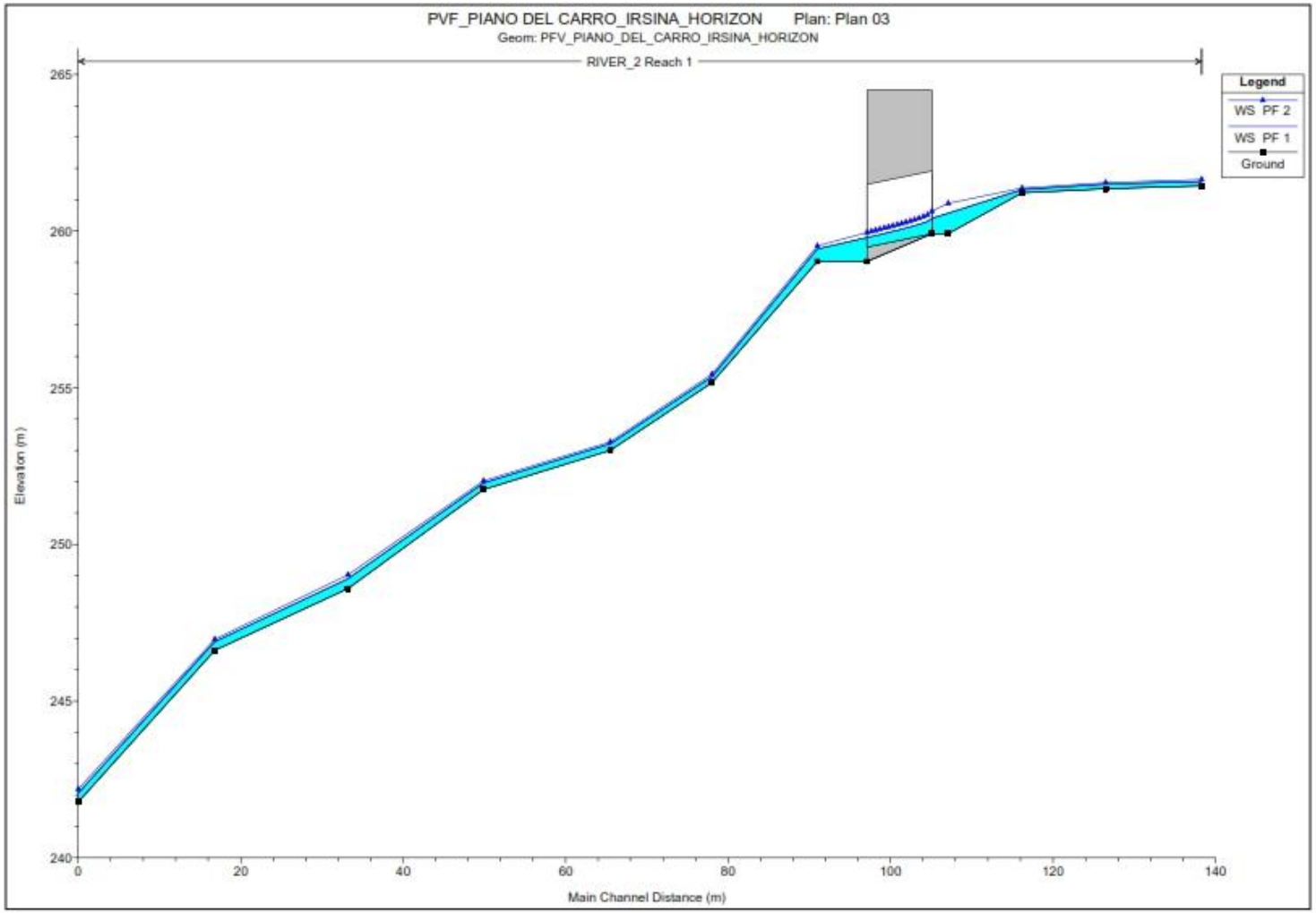

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 7 Reach = Reach 2 RS = 635
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
246.5
246.4
246.3
246.2
246.1
246.0
245.9
245.8
0
10
20
30
40
50

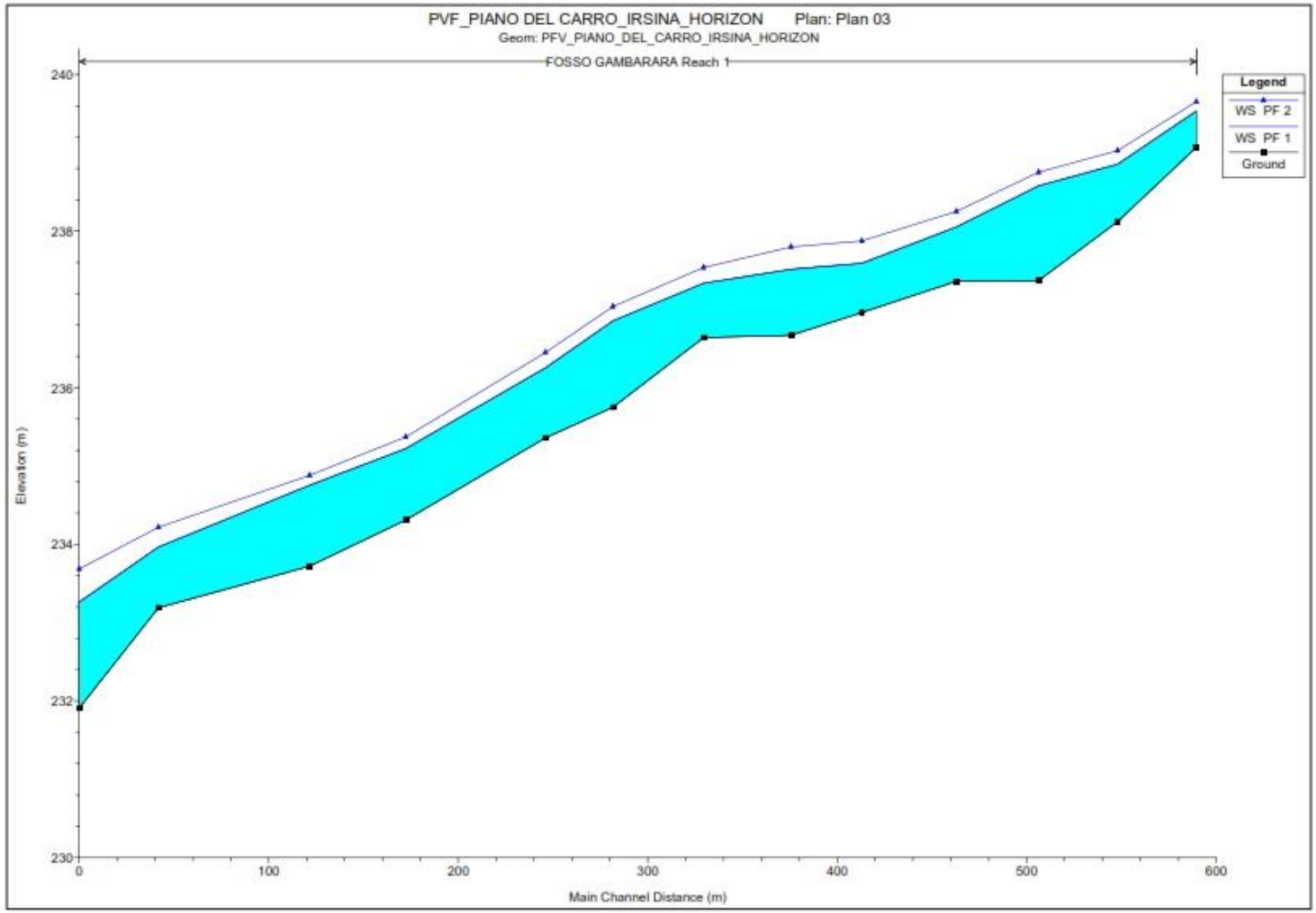

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 7 Reach = Reach 2 RS = 694
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
247.00
246.95
246.90
246.85
246.80
246.75
246.70
246.65
246.60
0
10
20
30
40
50
60
Station (m)

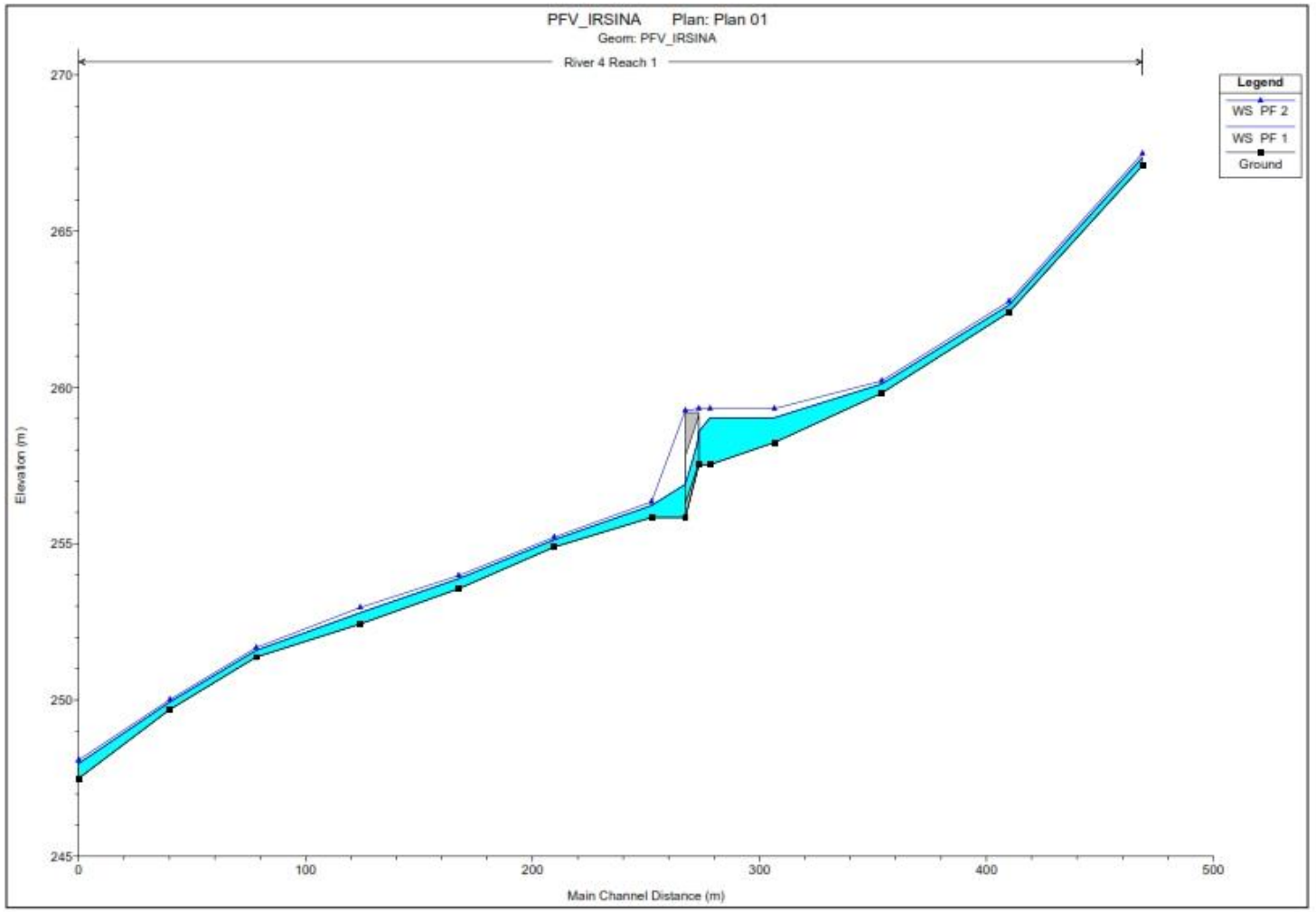

PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River = River 7 Reach = Reach 2 RS = 30
.033
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
241.05
241.00
240.95
240.90
240.85
Elevation (m)
0
5
10
15
20
25
30
35
Station (m)

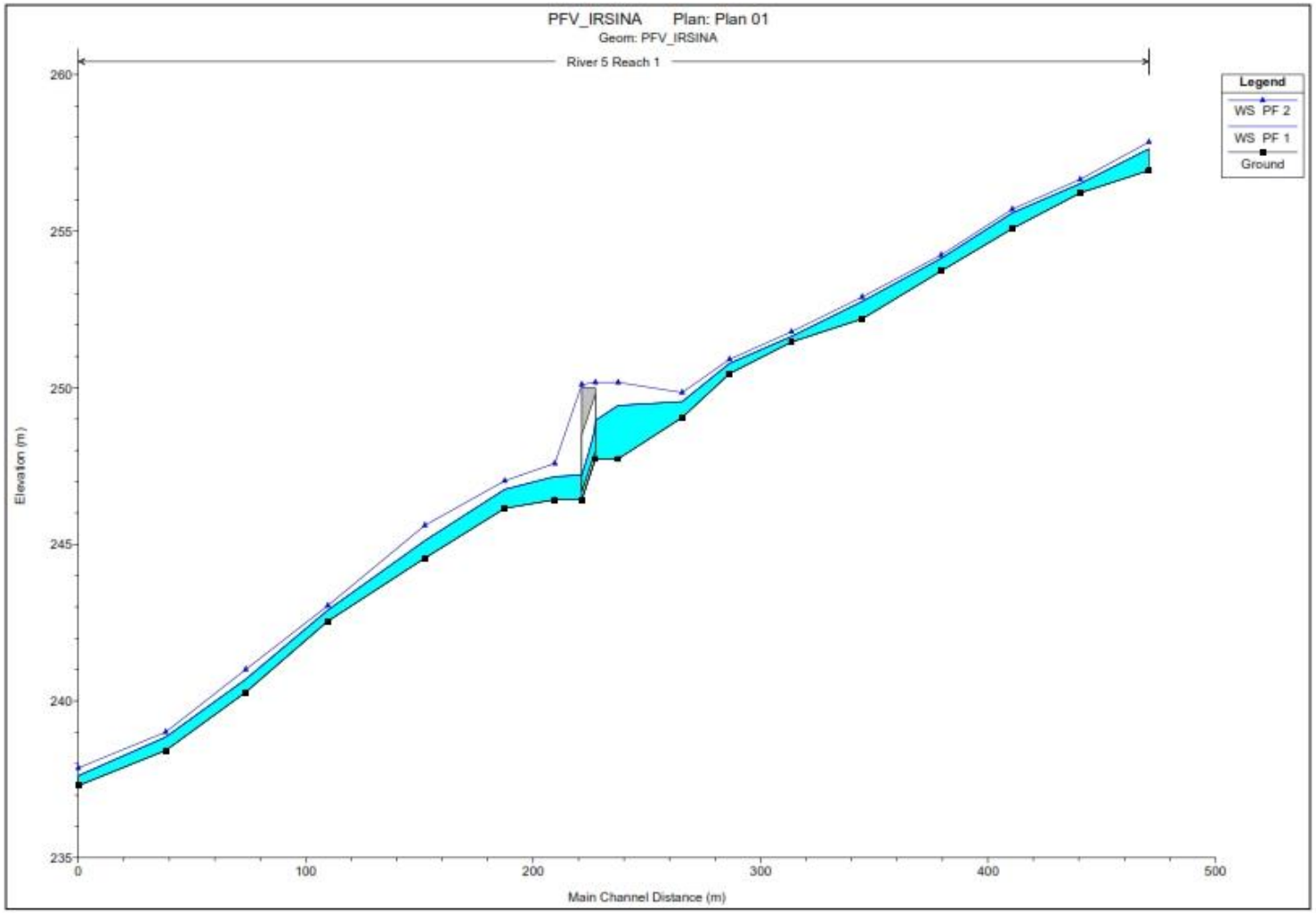
3.1 Profile plot

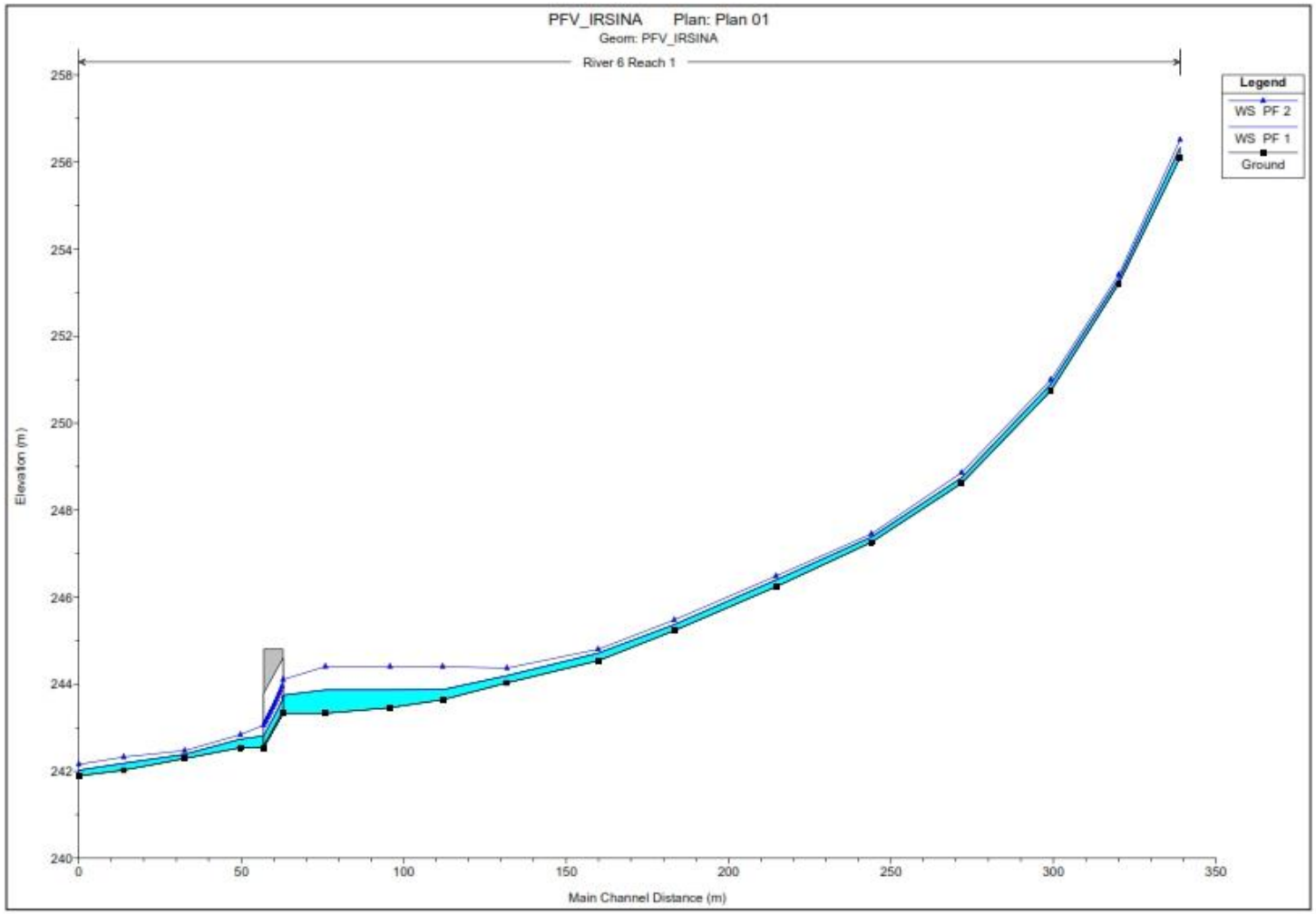

PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
River1 Reach 1
Legend
WS PF 2
WS PF 1
Ground
Elevation (m)
Main Channel Distance (m)
240
245
250
255
260
265
0
20
40
60
80
100
120
140
160


PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
RIVER_2 Reach 1
Legend
WS PF 2
WS PF 1
Ground
Elevation (m)
Main Channel Distance (m)
240
245
250
255
260
265
0
20
40
60
80
100
120
140


PVF_PIANO DEL CARRO_IRSINA_HORIZON Plan: Plan 03
Geom: PFV_PIANO_DEL_CARRO_IRSINA_HORIZON
FOSSO GAMBARARA Reach 1
Legend
WS PF 2
WS PF 1
Ground
Elevation (m)
240
238
236
234
232
230
0
100
200
300
400
500
600
Main Channel Distance (m)


PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River 4 Reach 1
Legend
WS PF 2
WS PF 1
Ground
Elevation (m)
270
265
260
255
250
245
0
100
200
300
400
500
Main Channel Distance (m)


PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River 5 Reach 1
Legend
WS PF 2
WS PF 1
Ground
Elevation (m)
Main Channel Distance (m)
260
255
250
245
240
235
0
100
200
300
400
500


PFV_IRSINA Plan: Plan 01
Geom: PFV_IRSINA
River 6 Reach 1
Legend
WS PF 2
WS PF 1
Ground
Elevation (m)
Main Channel Distance (m)
240
242
244
246
248
250
252
254
256
258
0
50
100
150
200
250
300
350