



PROVINCIA DI OLBIA TEMPIO
COMUNE SAN TEODORO

ADEGUAMENTO DEL PIANO URBANISTICO COMUNALE
AL P.A.I.

PERIMETRAZIONE DELLE AREE A PERICOLOSITA'
IDRAULICA IN APPLICAZIONE DELL'ART.8 COMMA 2
DELLE NORME DI ATTUAZIONE DEL P.A.I.

CALA GINEPRO
VERIFICHE IDRAULICHE

TAVOLA N°

SCALA

DATA

2.2

Ottobre 2012

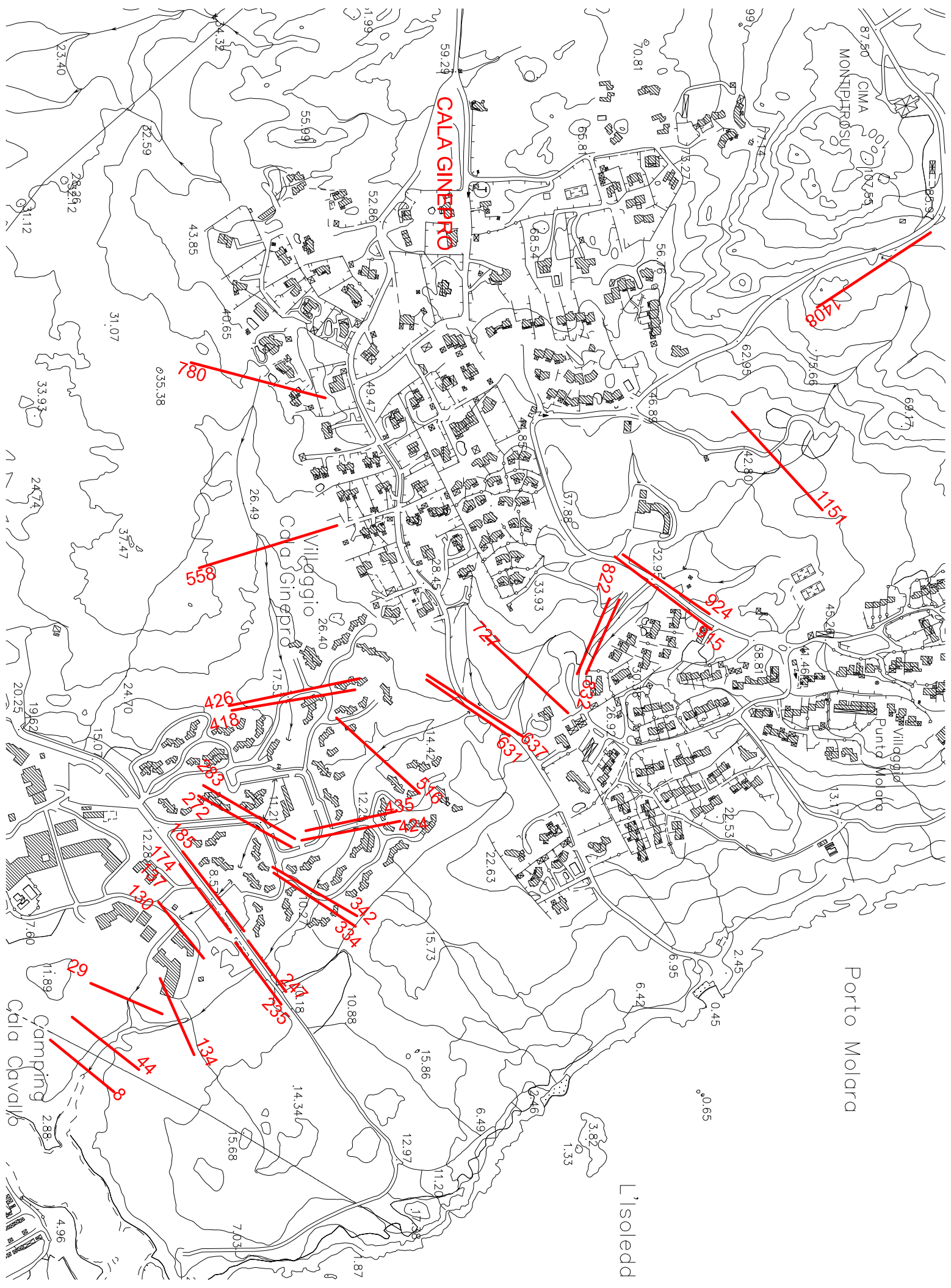
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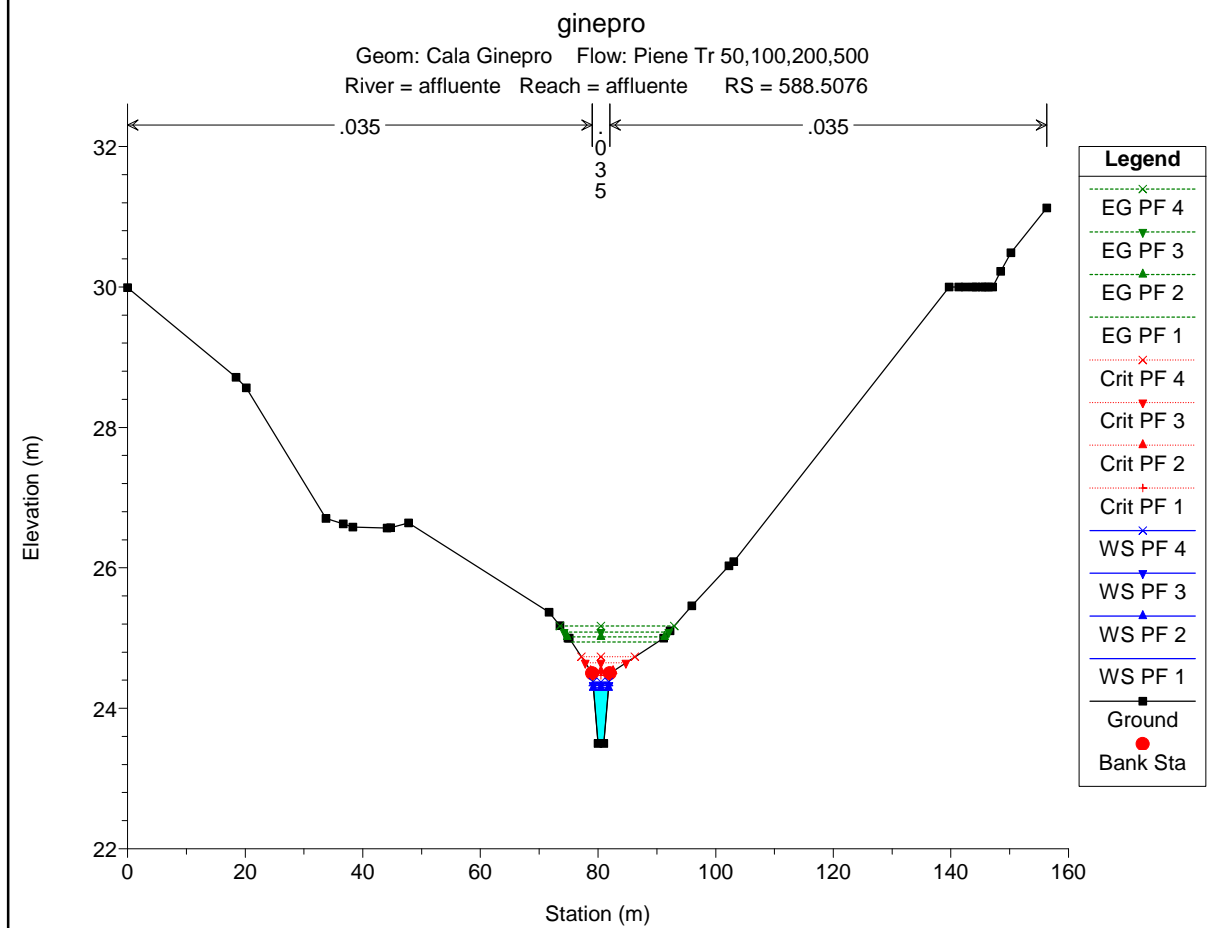
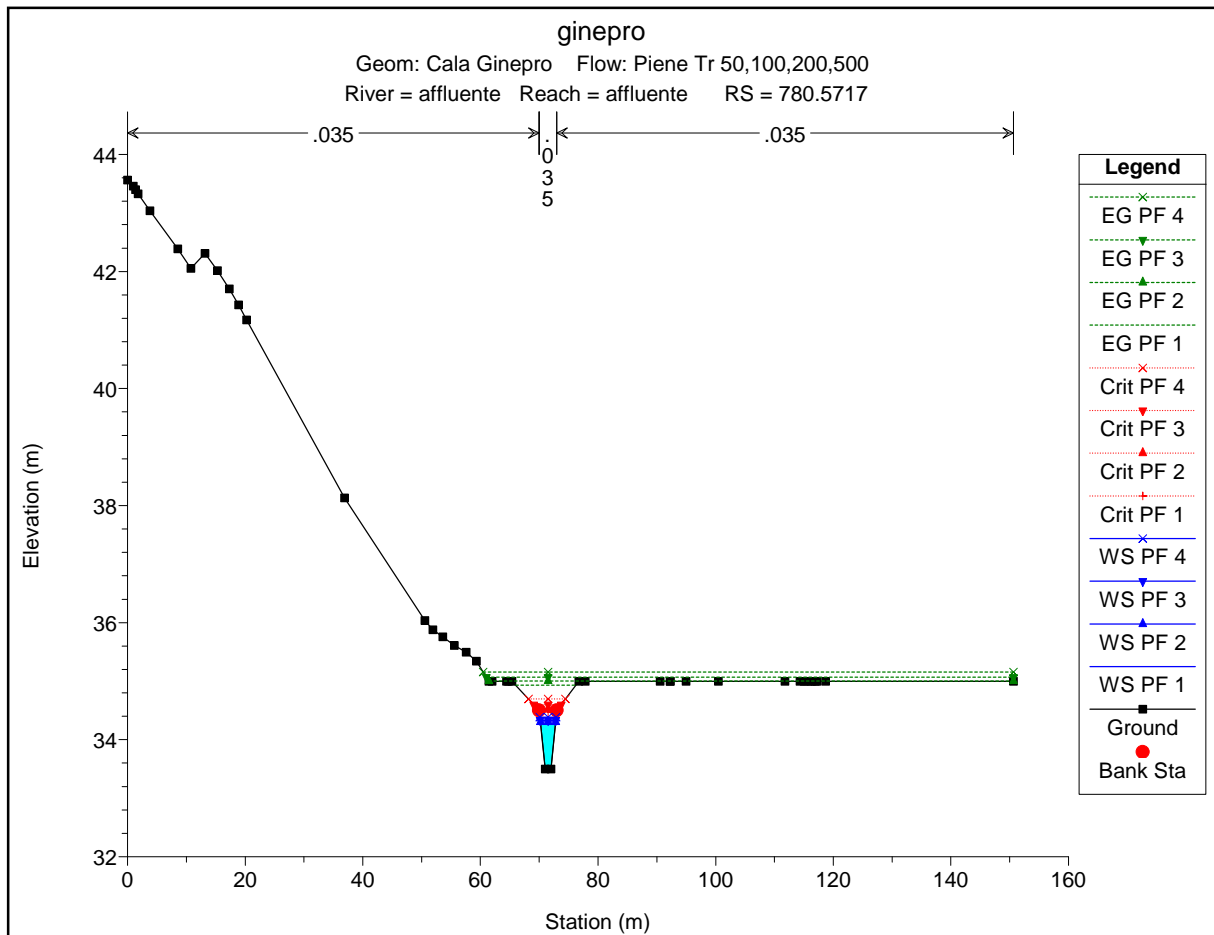
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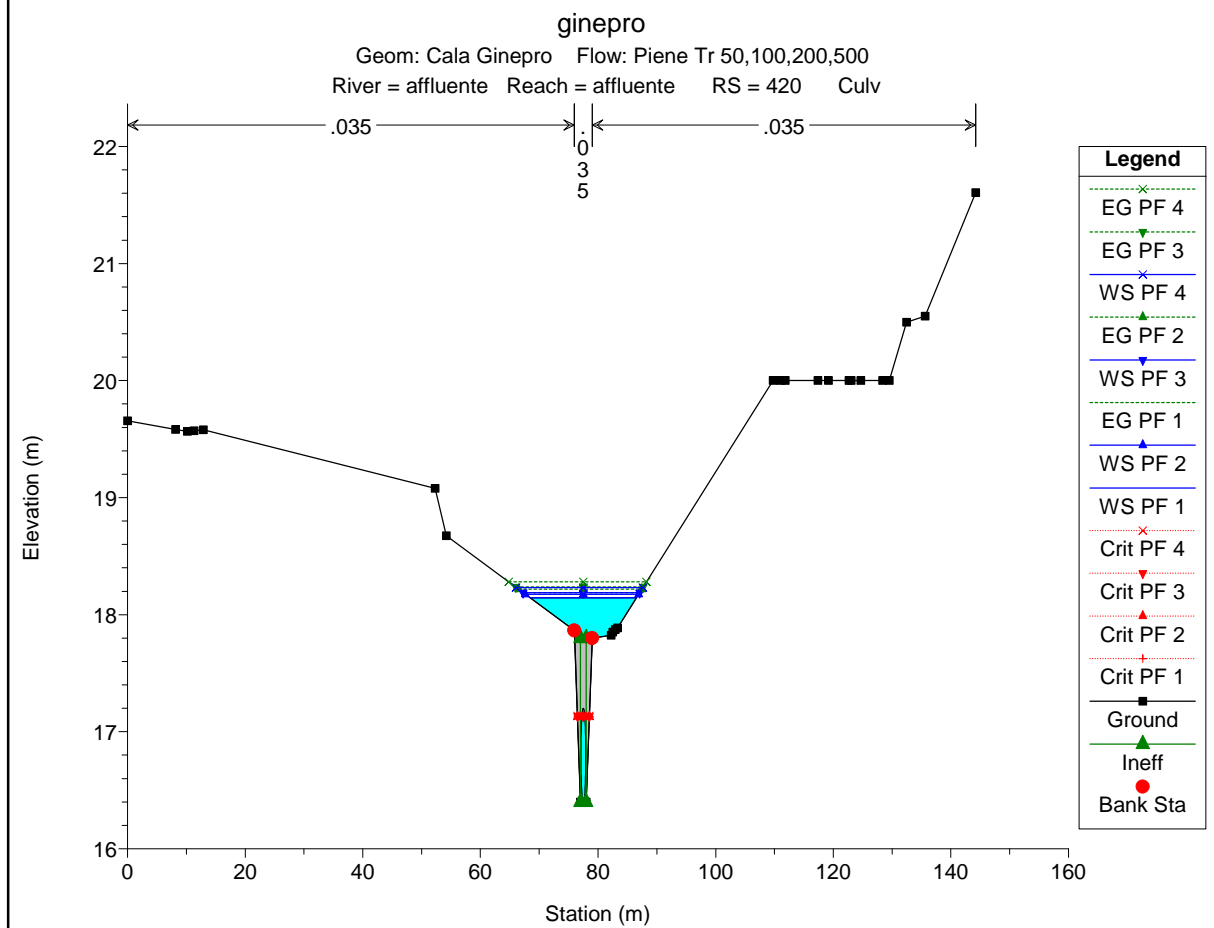
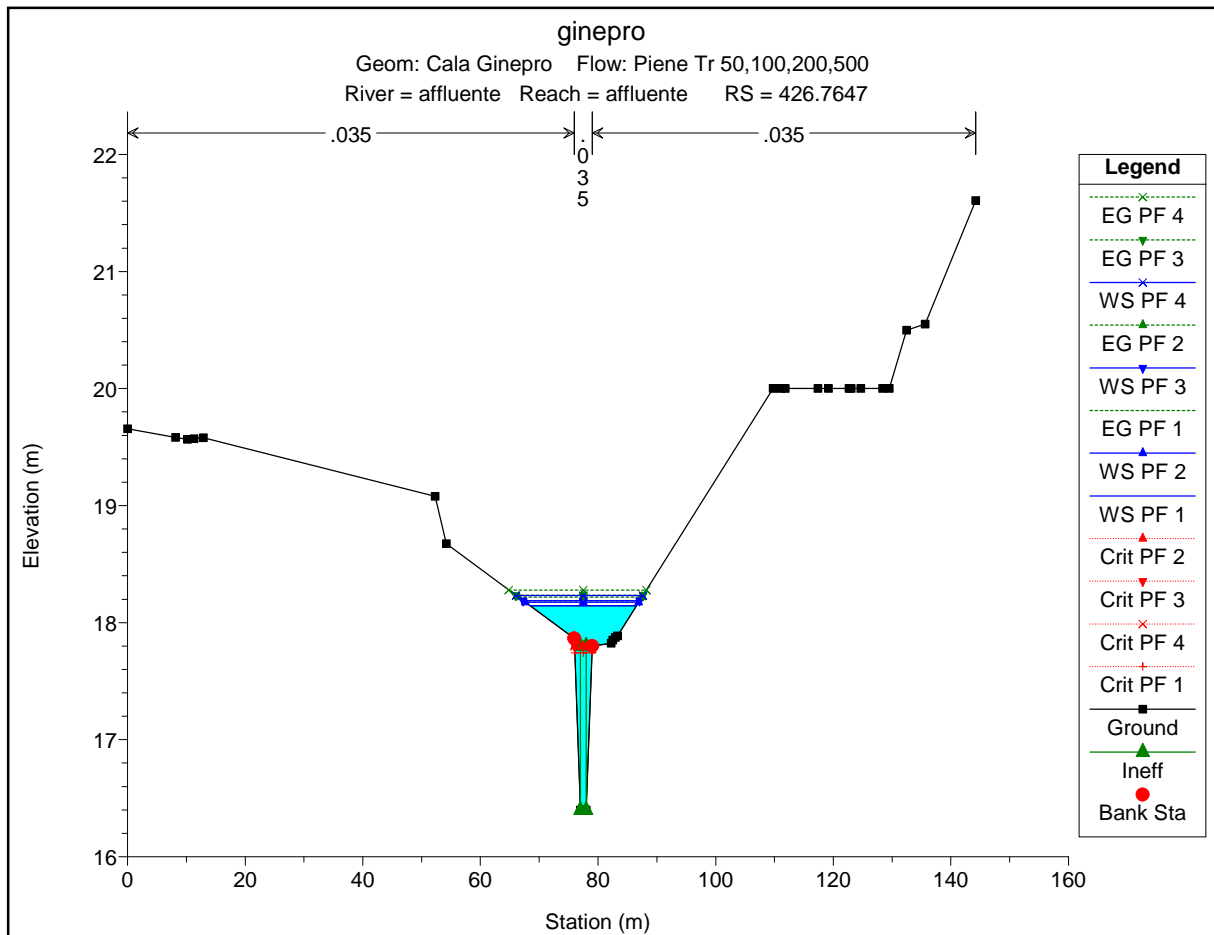
Geol. Andrea Selis

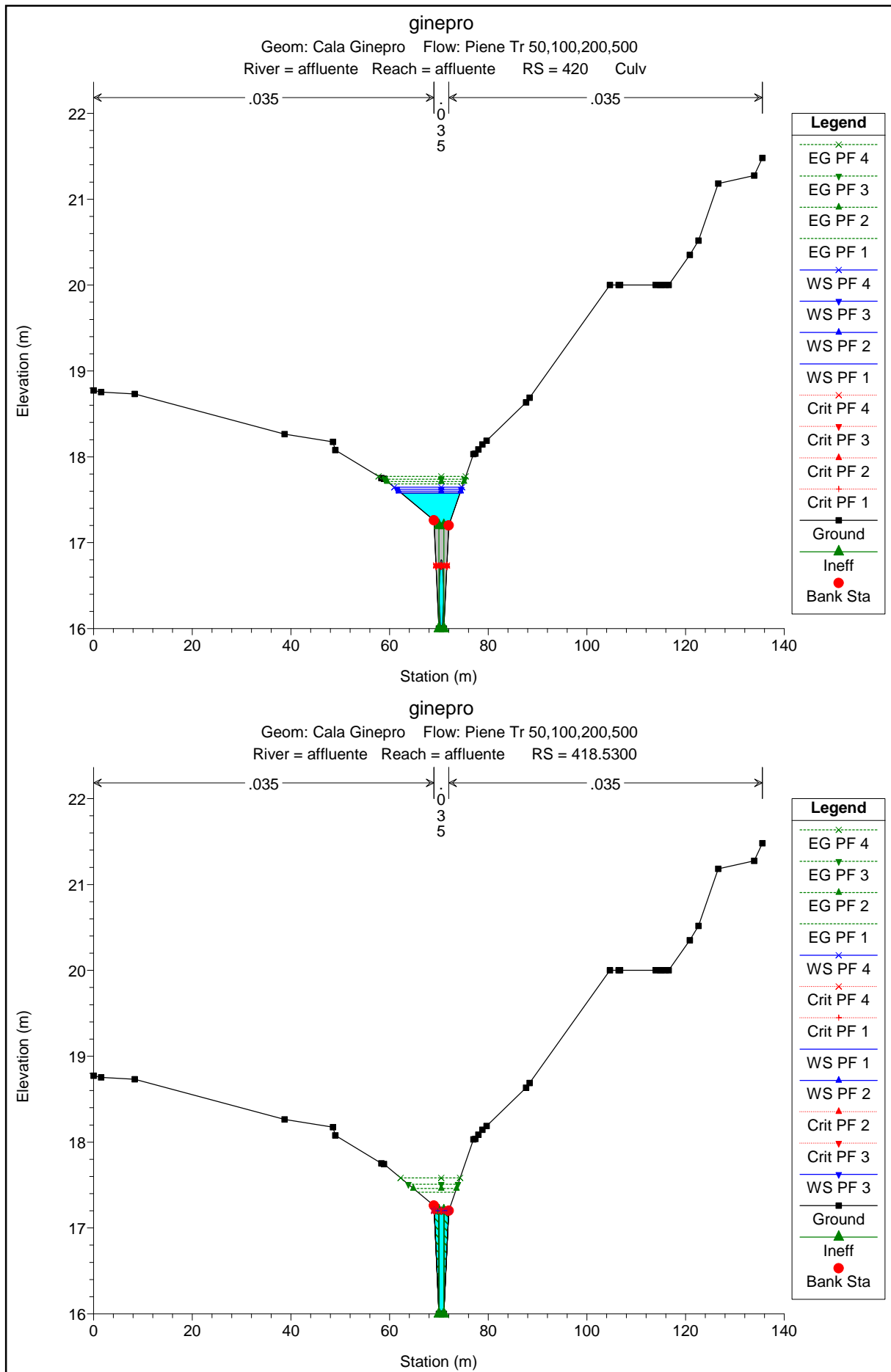
IL RESPONSABILE DEL PROCEDIMENTO

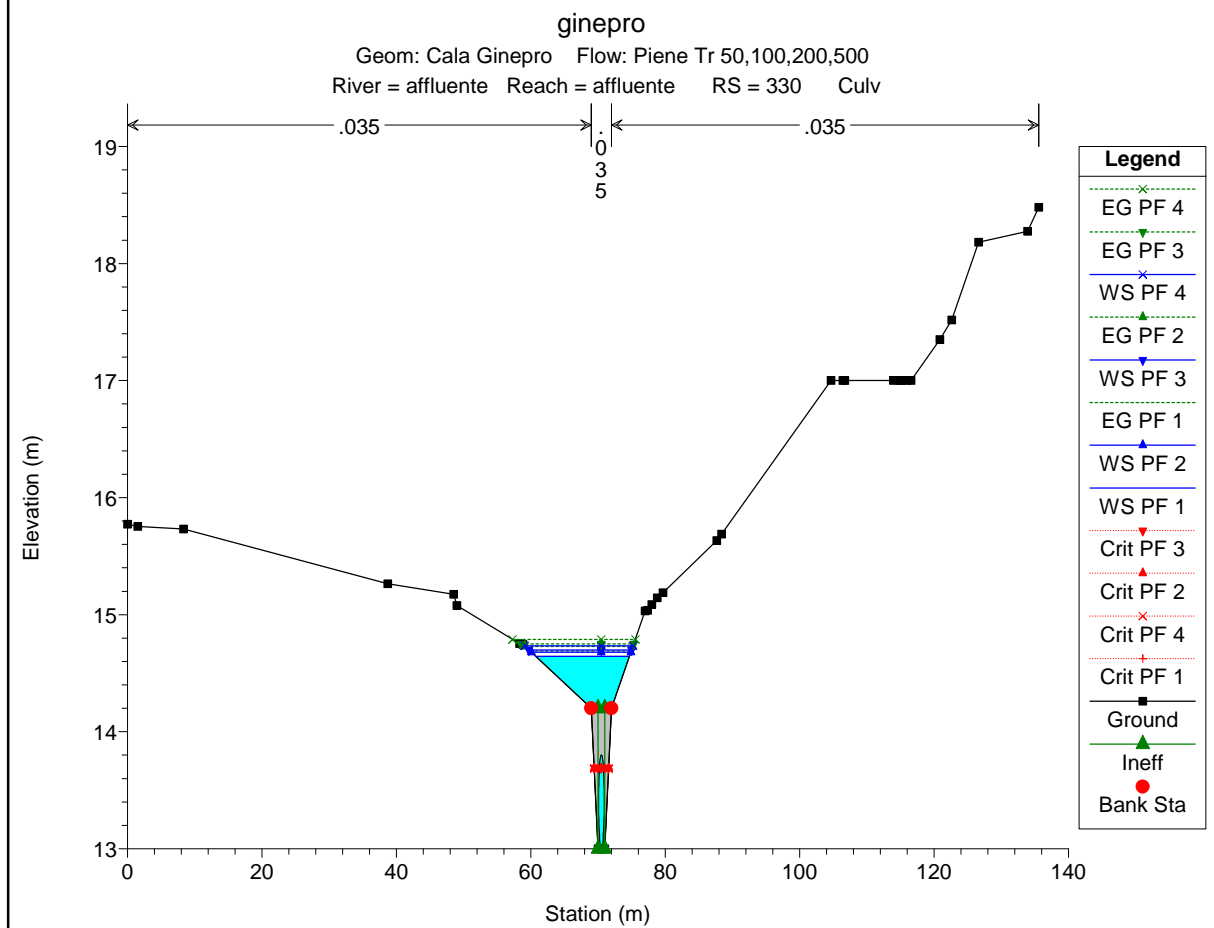
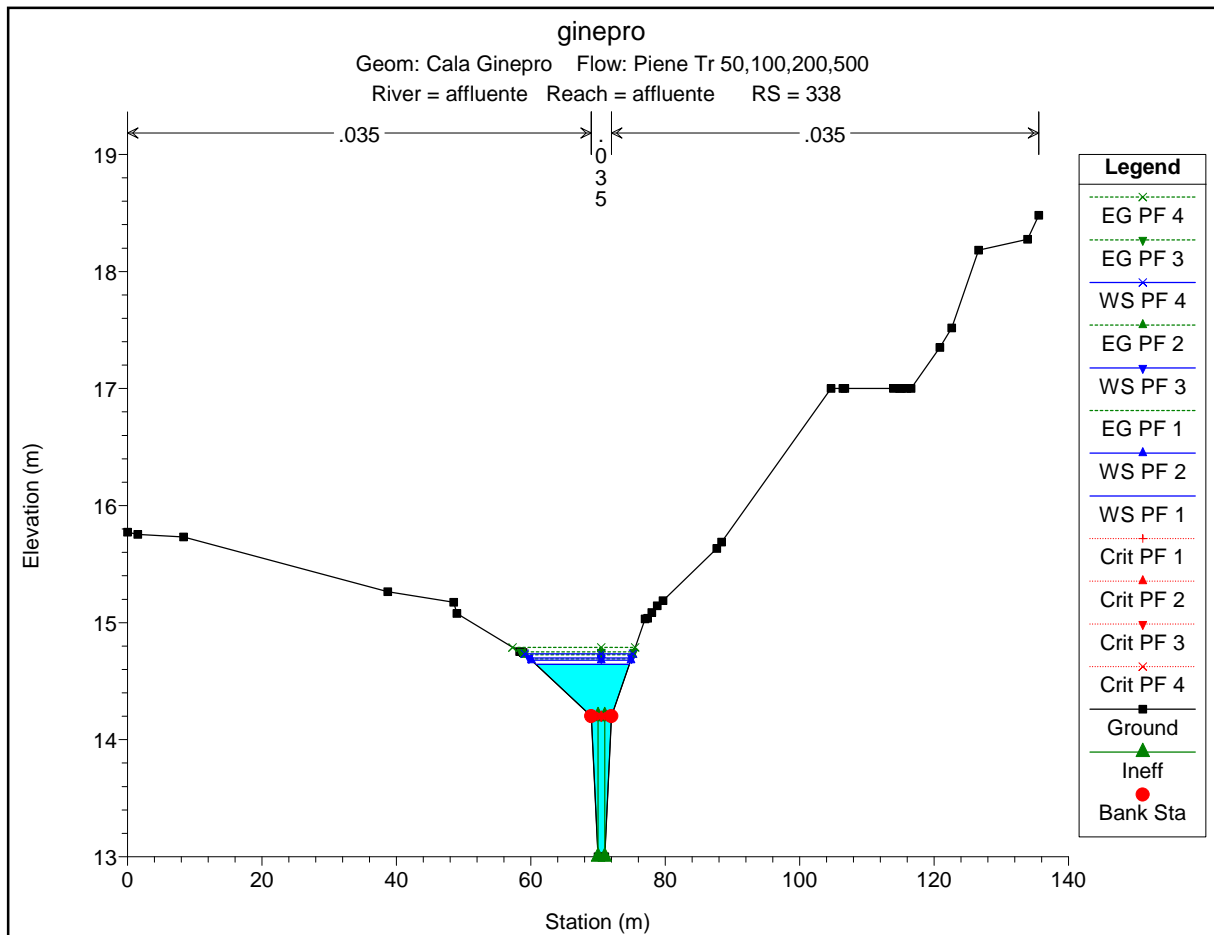
Geom. Riccardo Inzaina

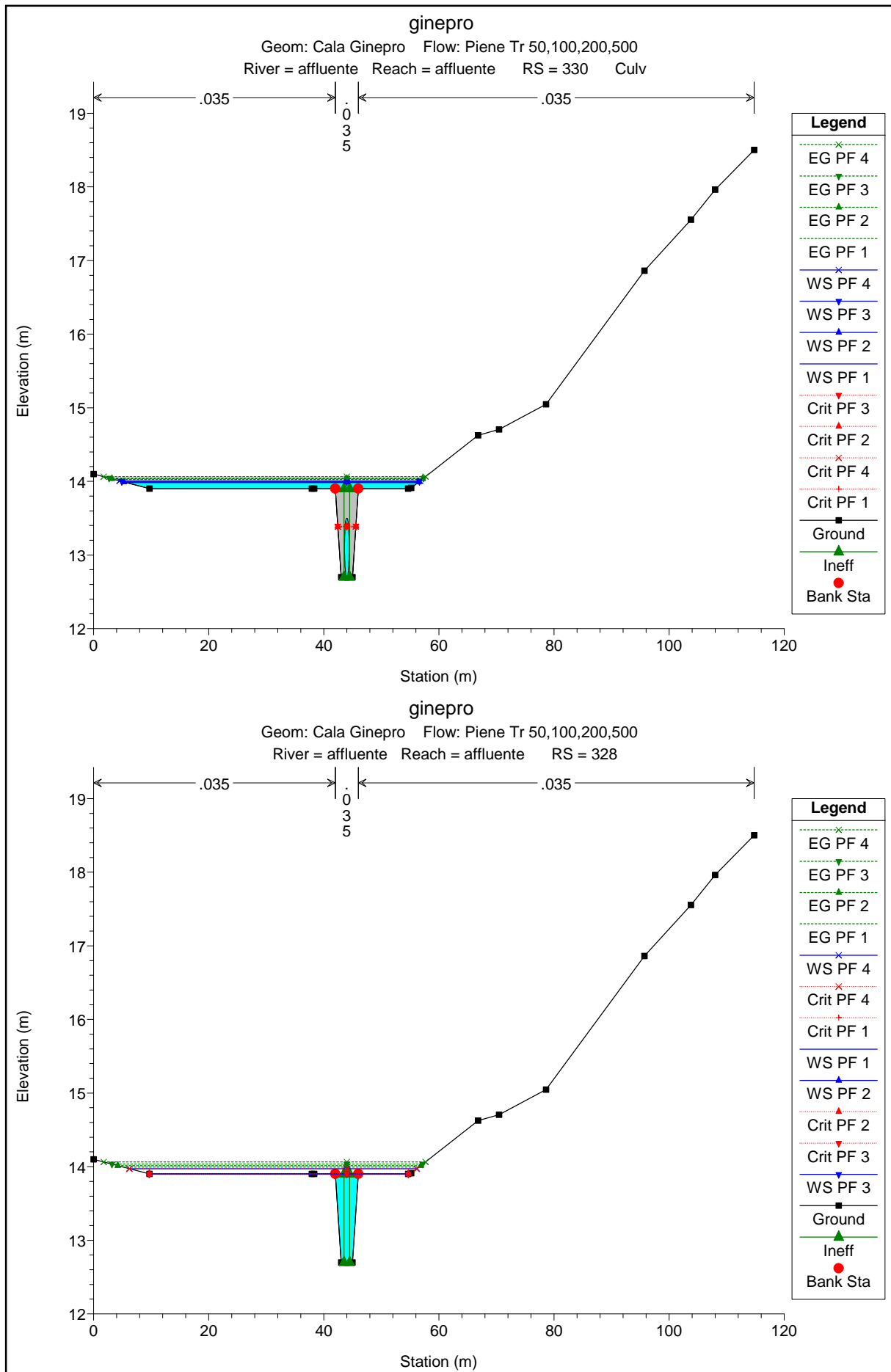


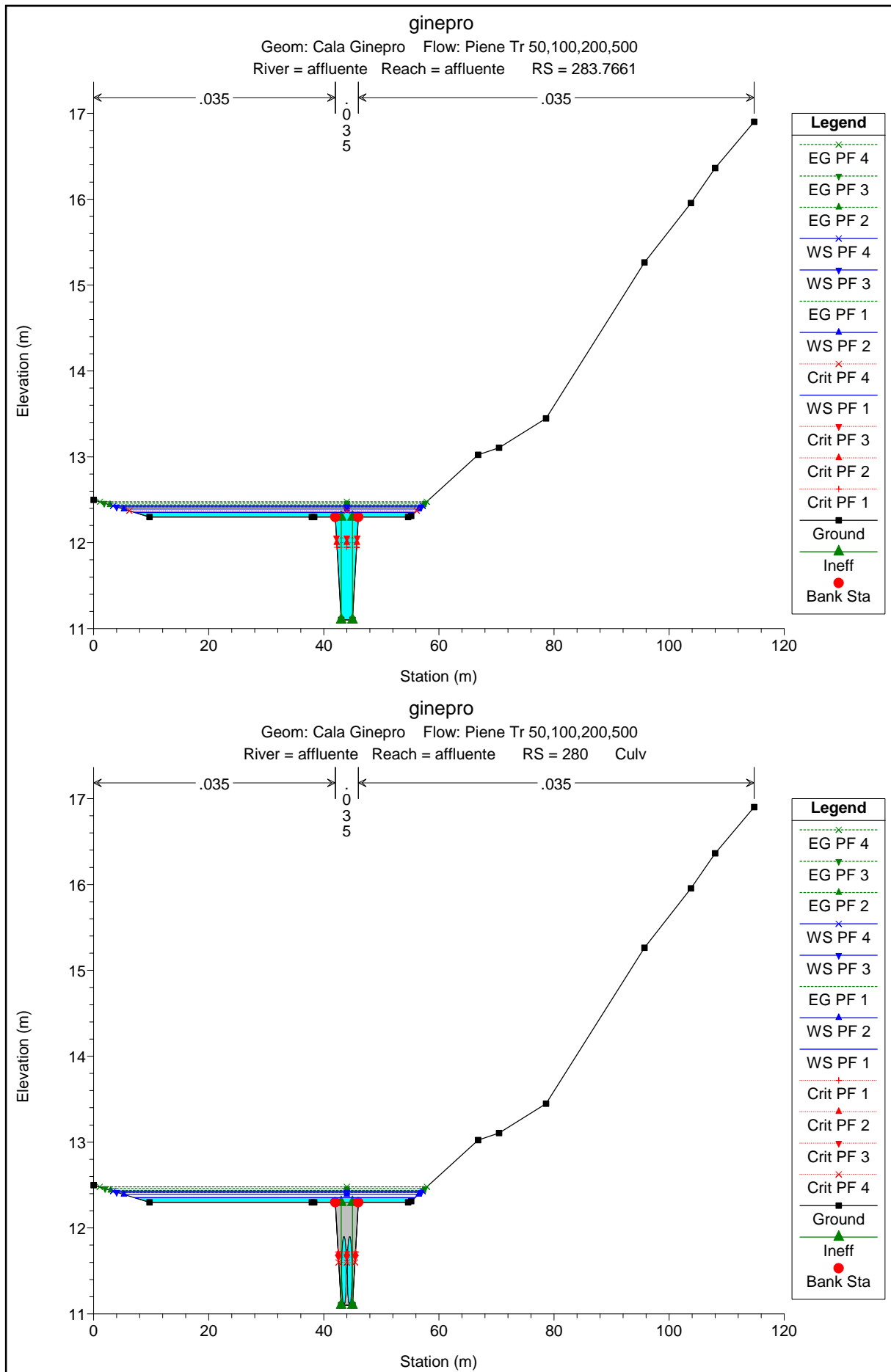


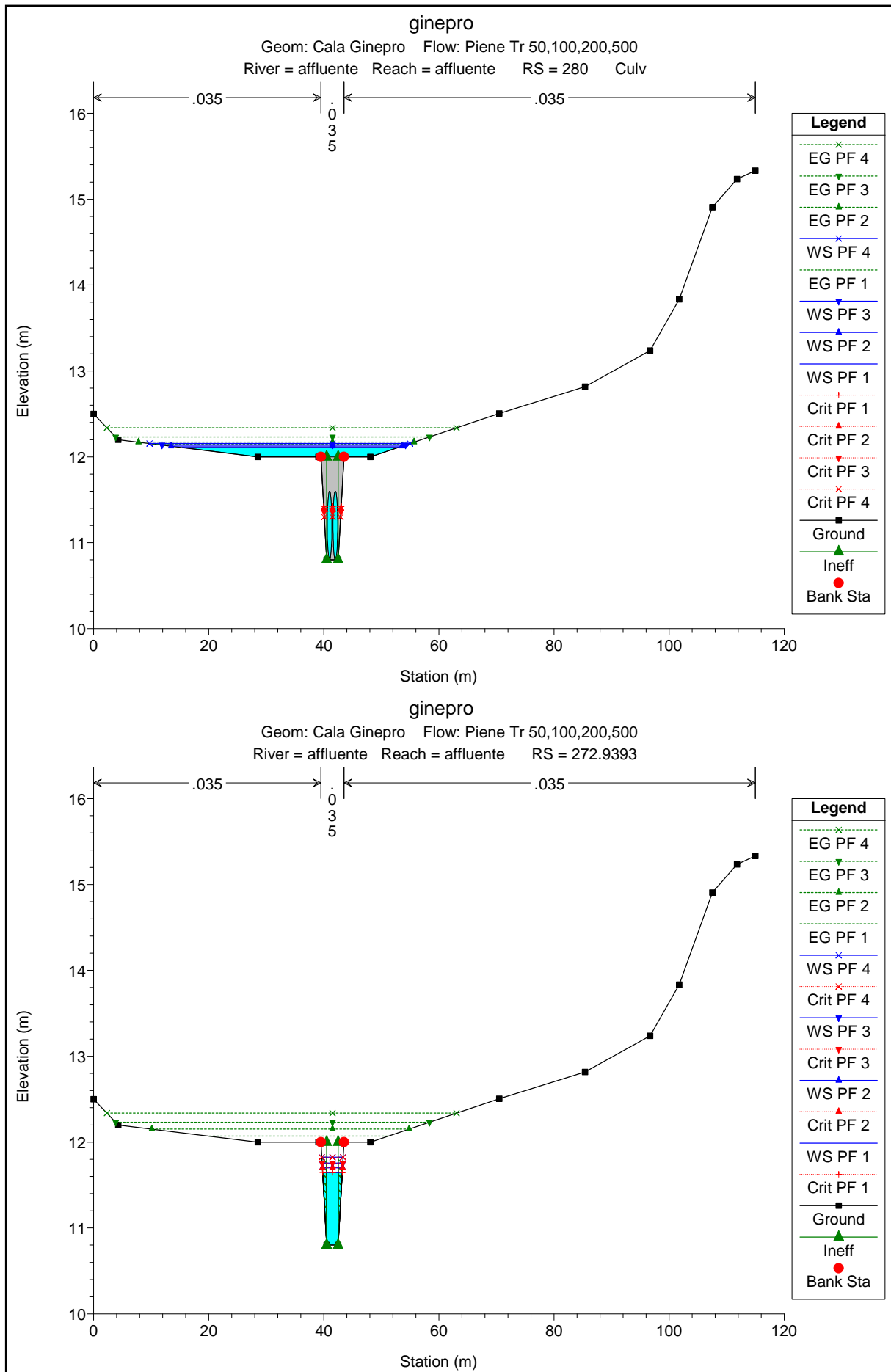


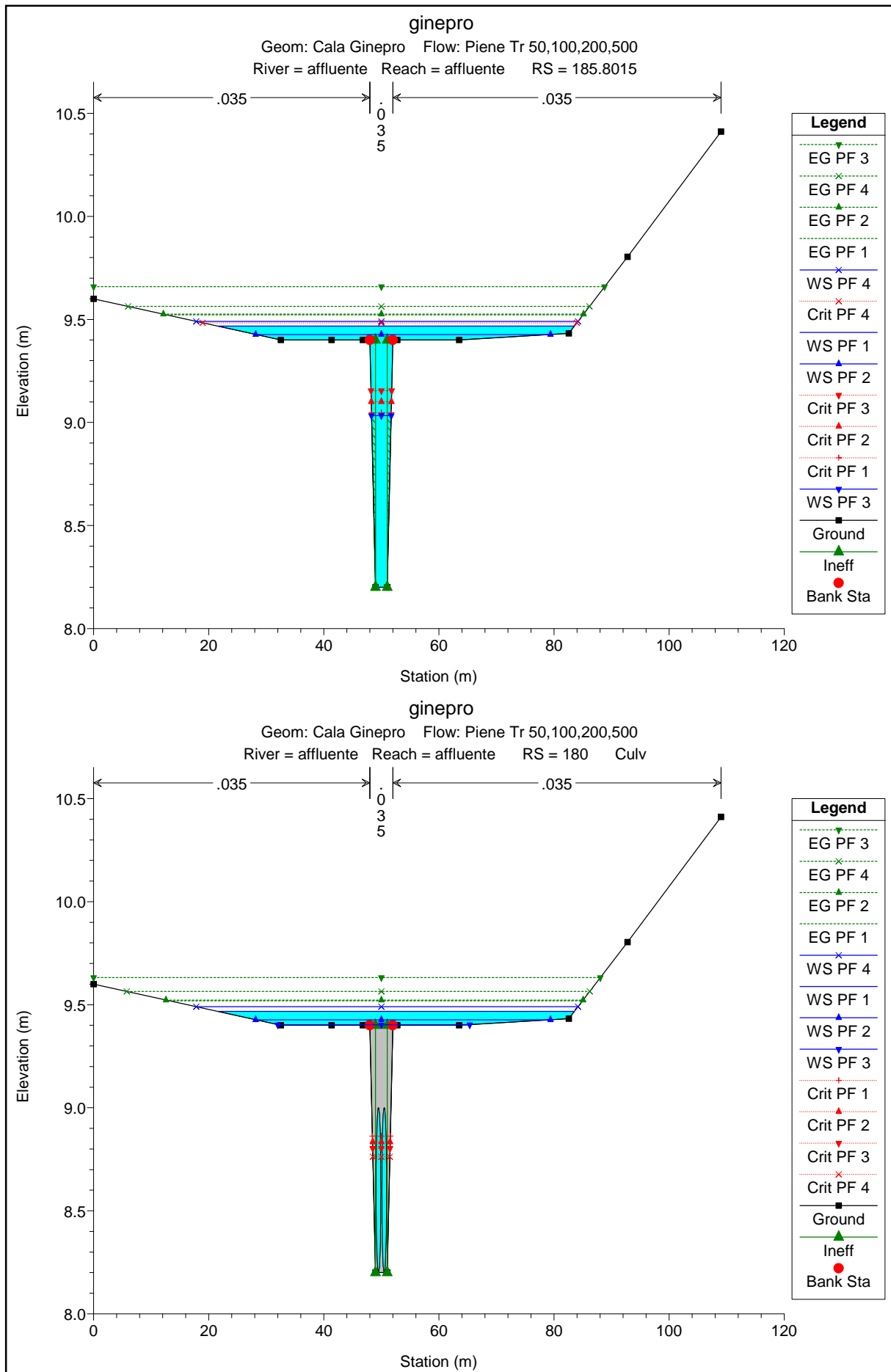


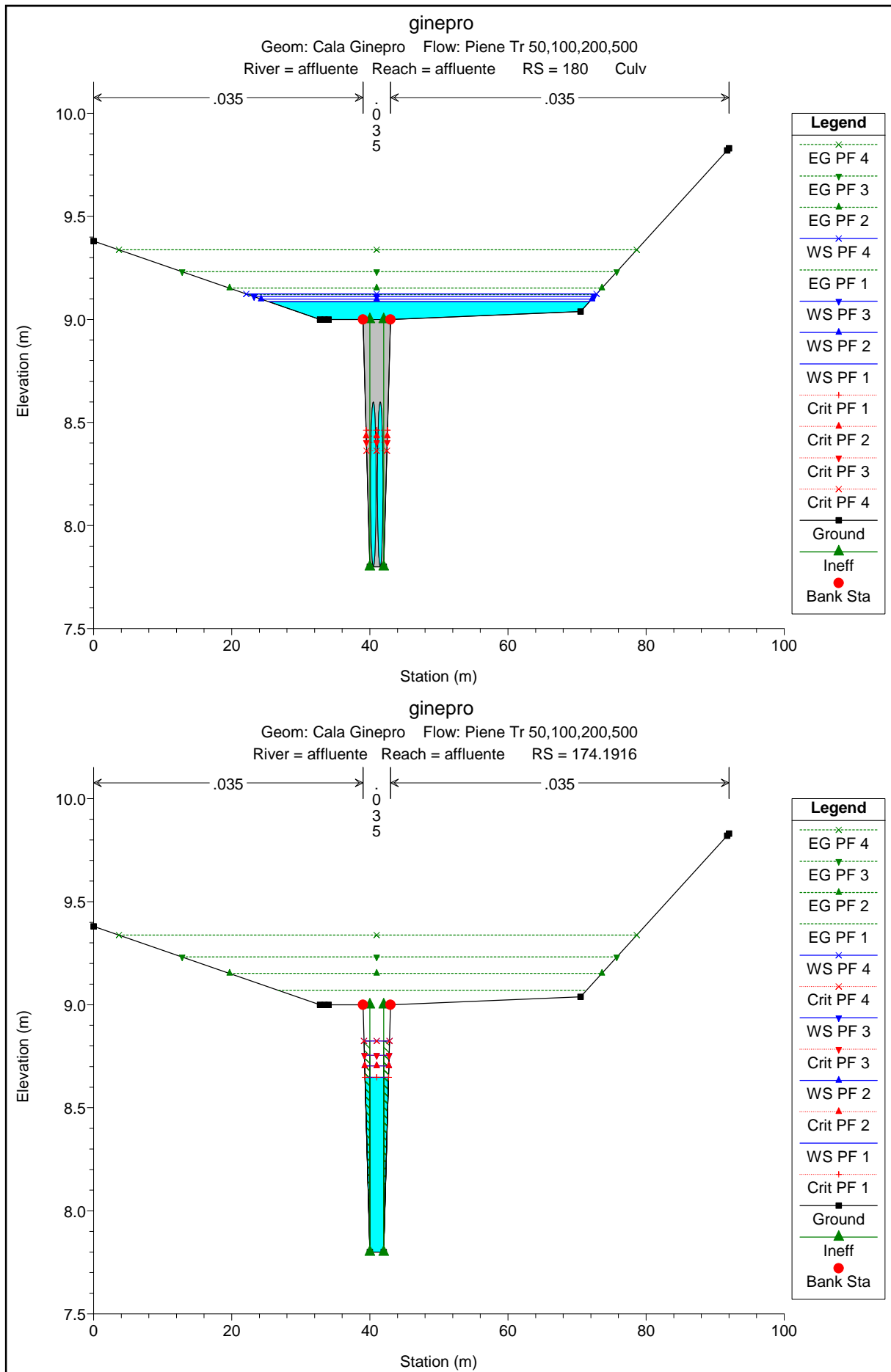


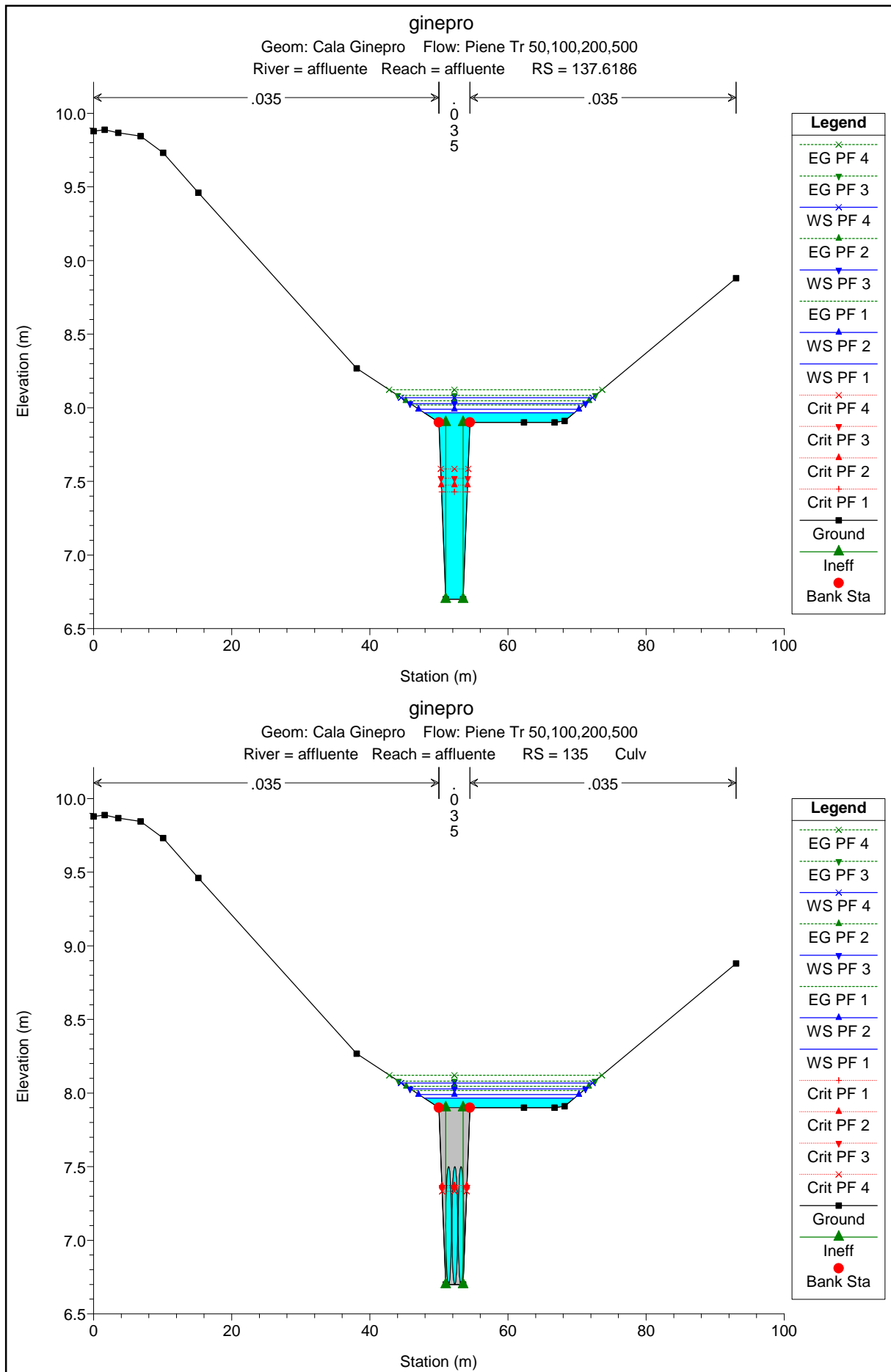


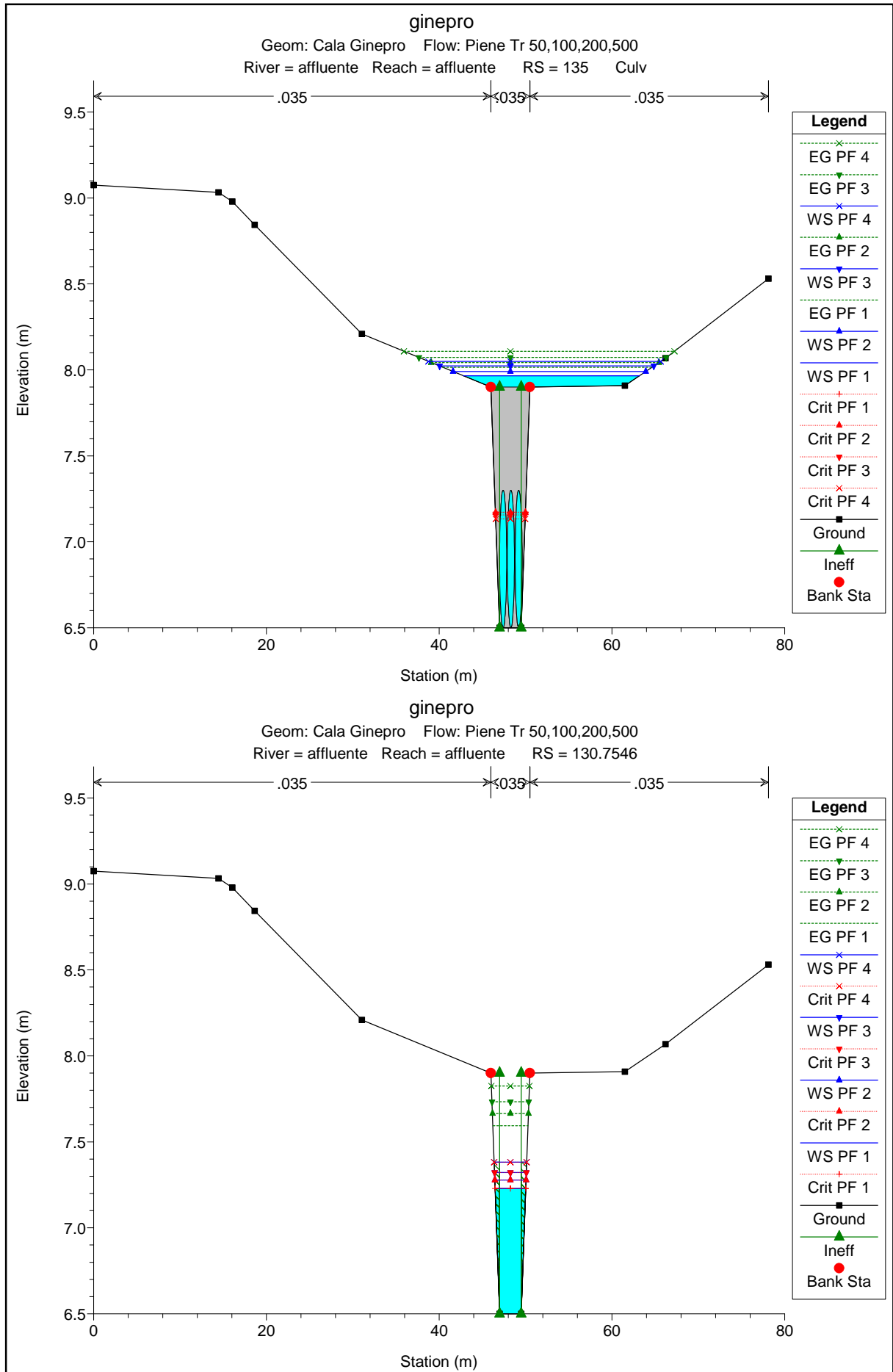


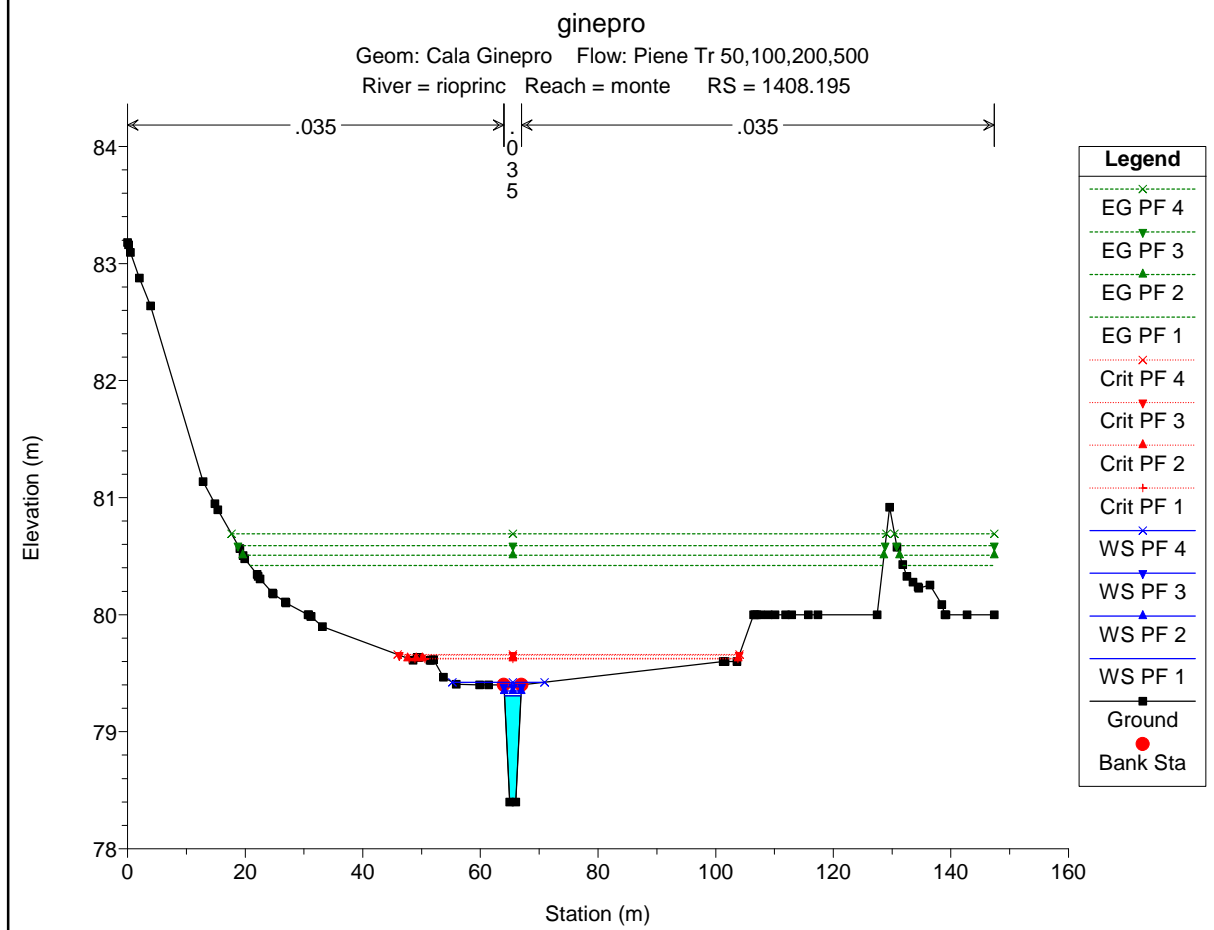
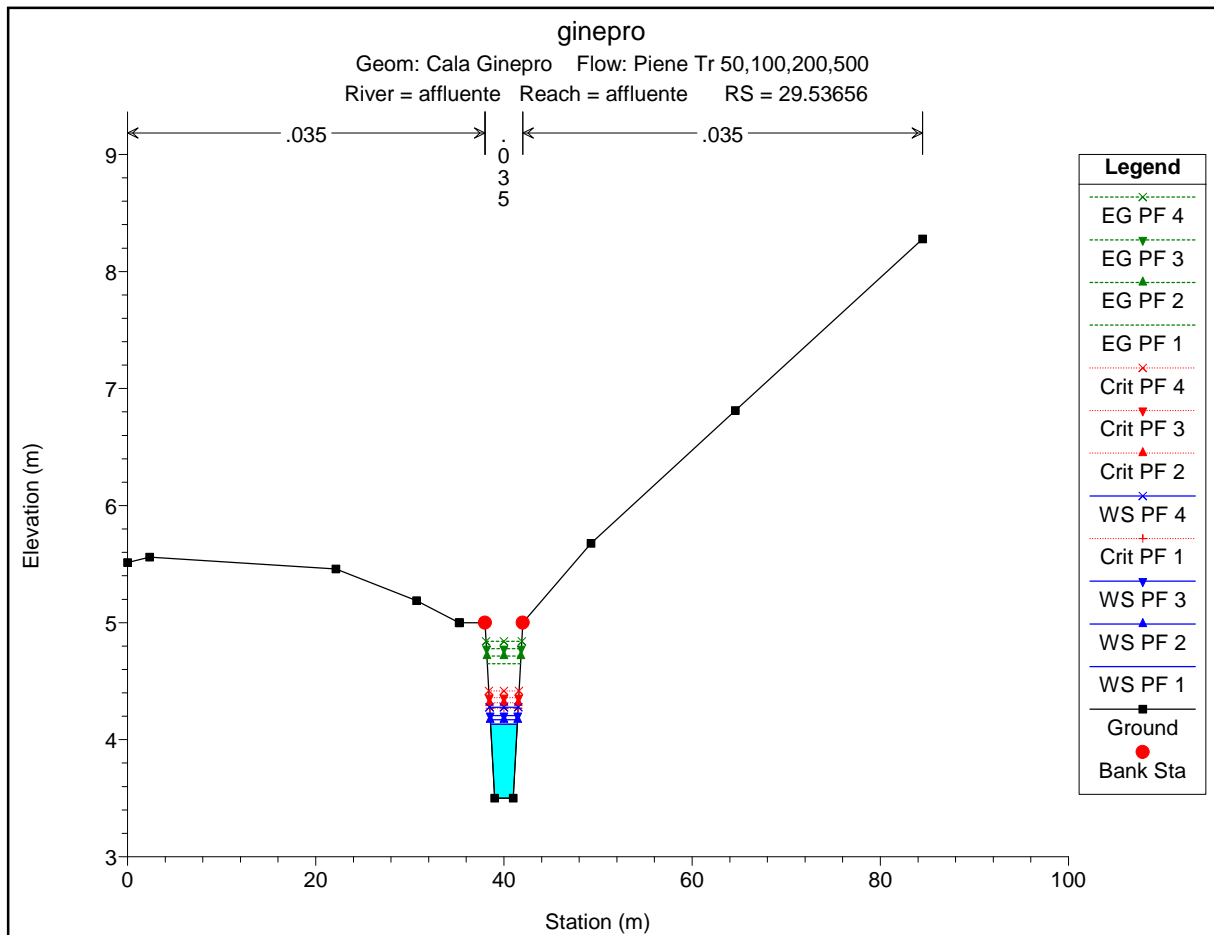


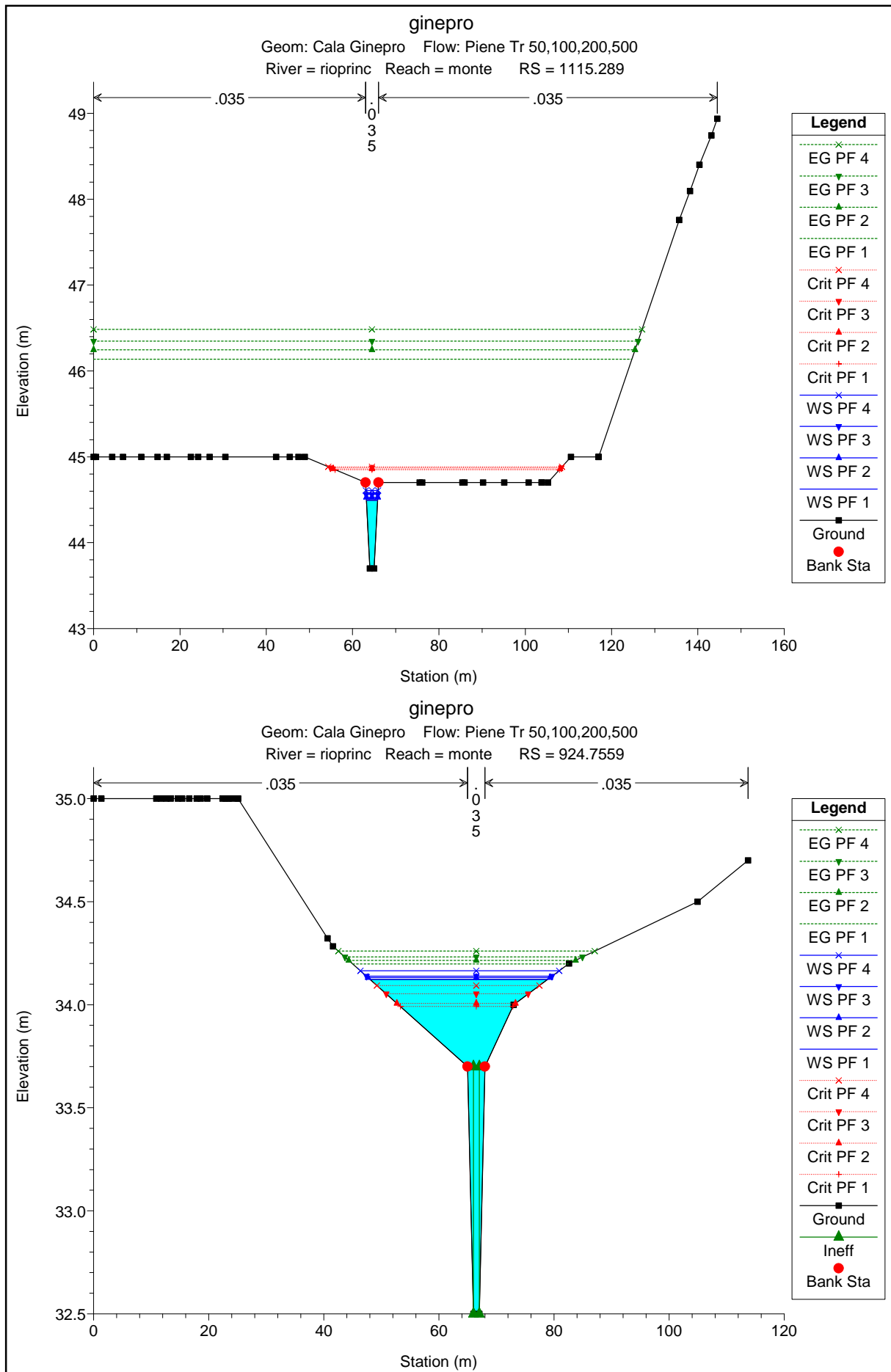


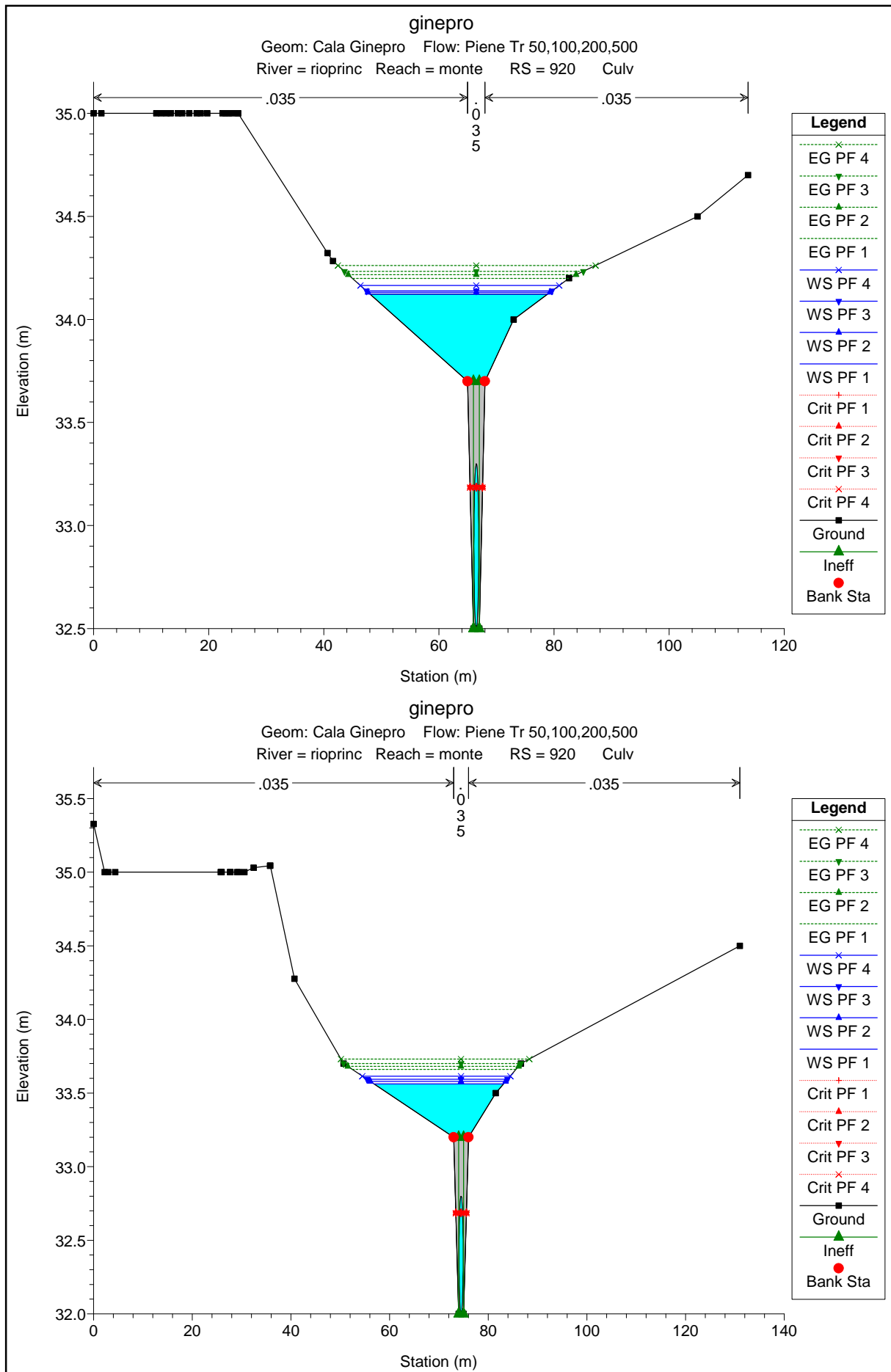


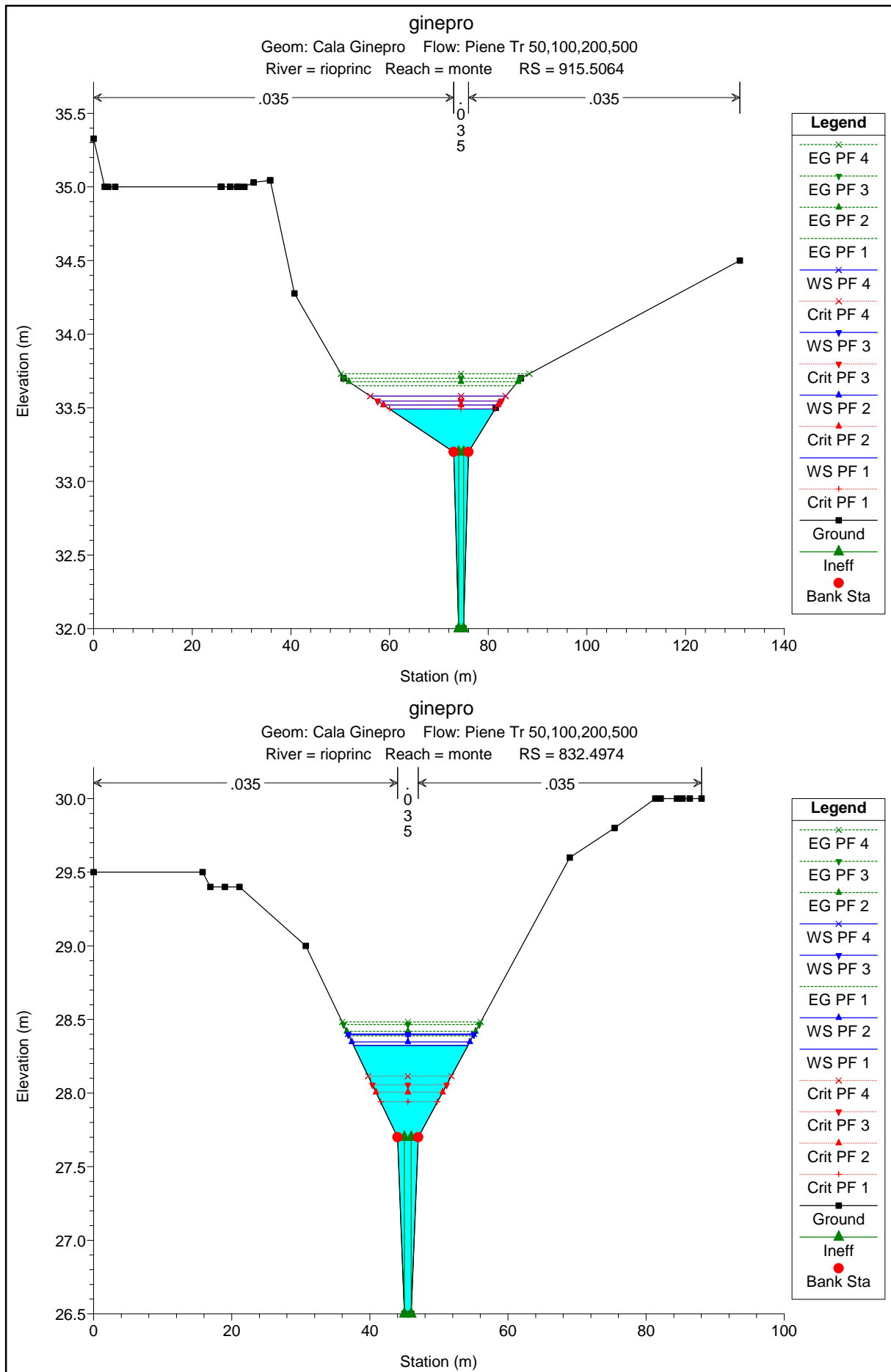


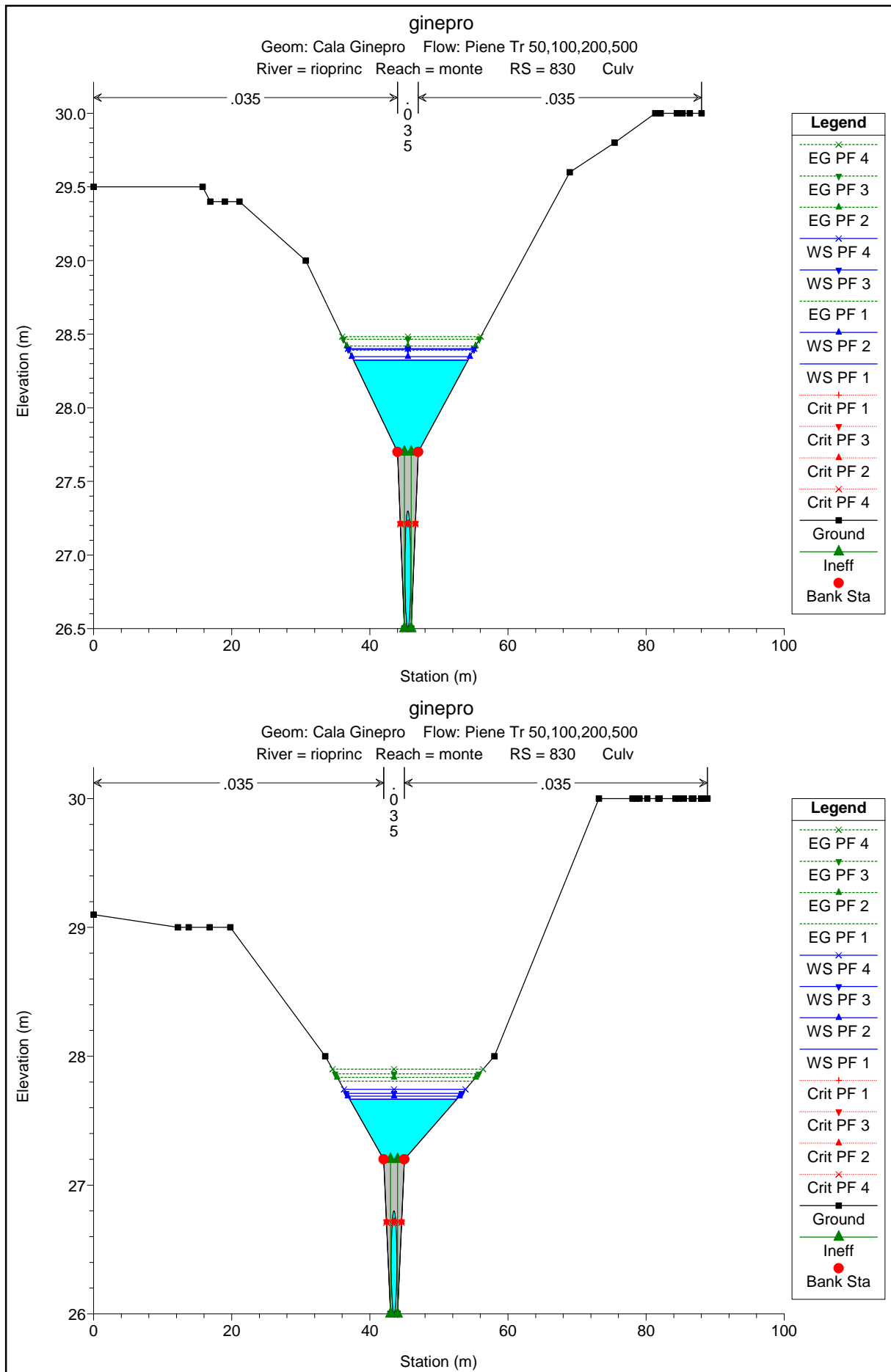


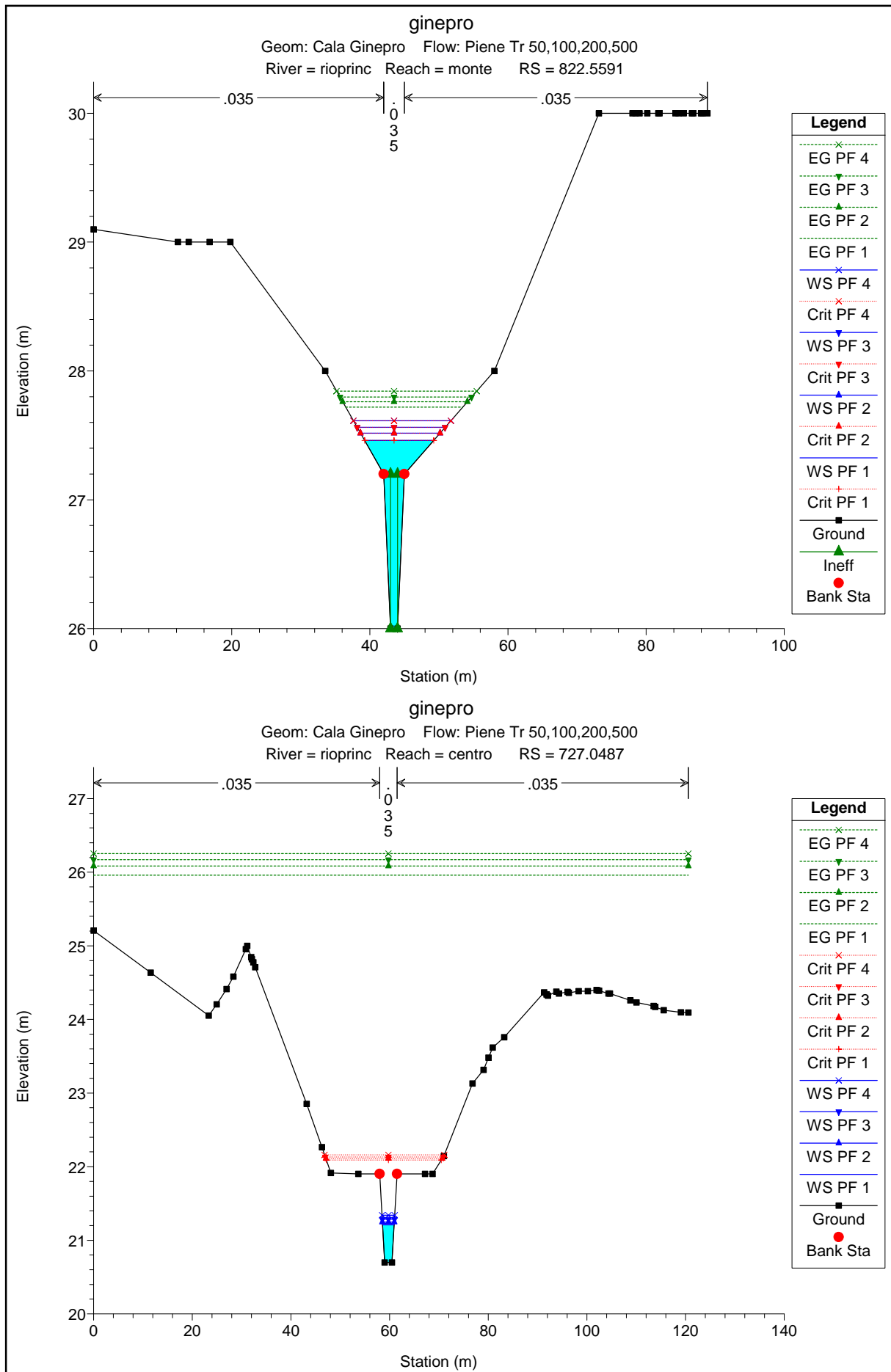


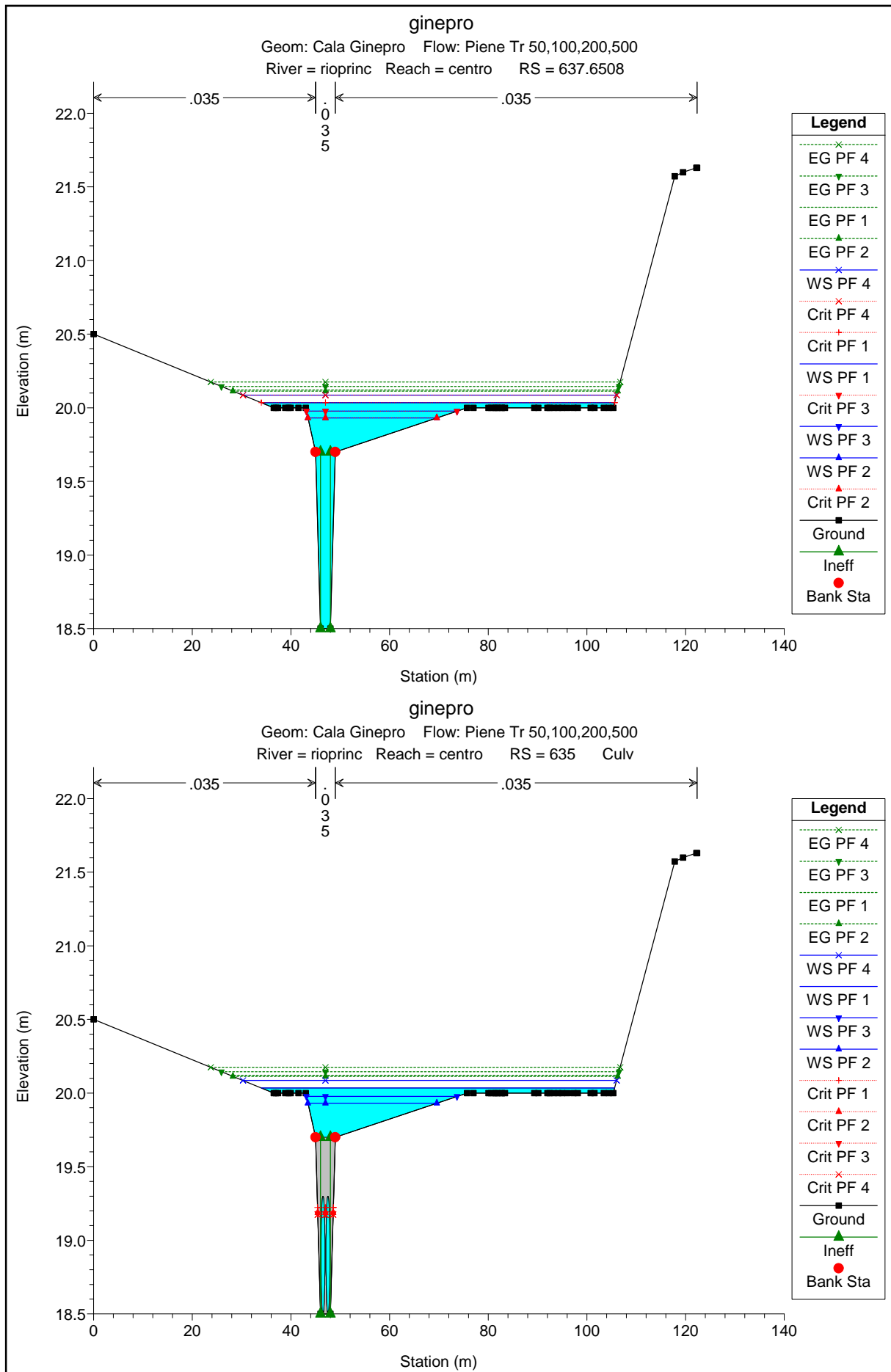


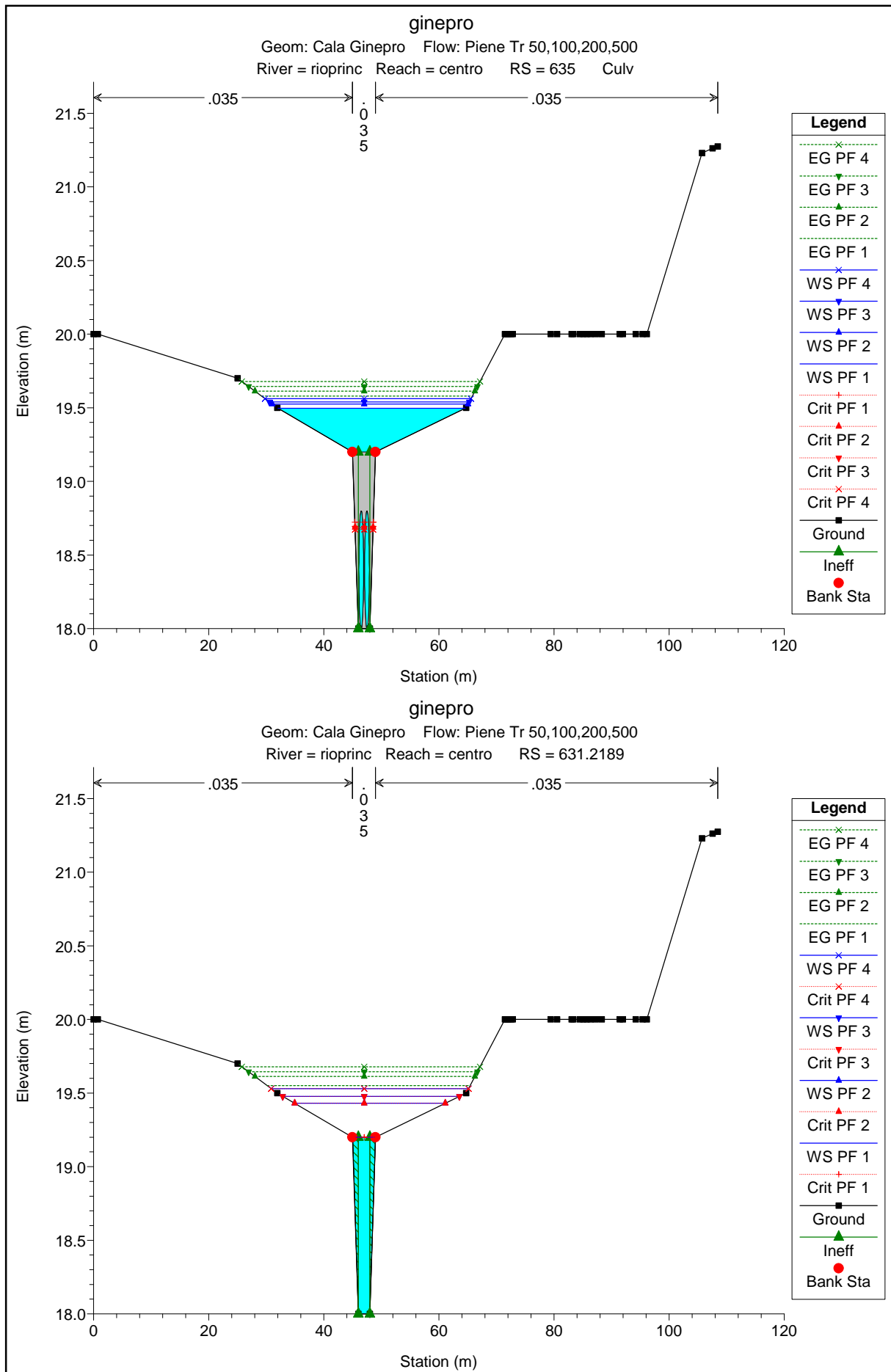


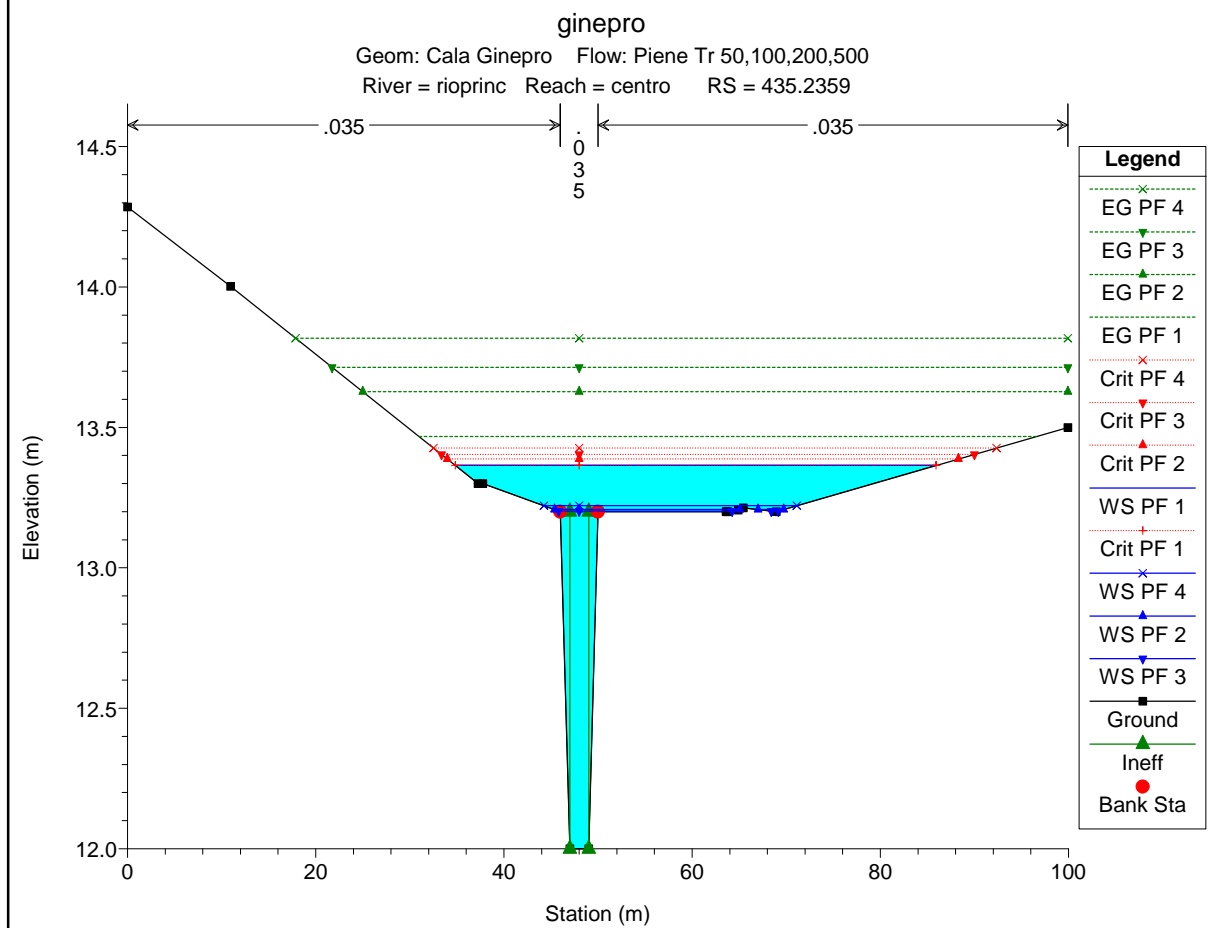
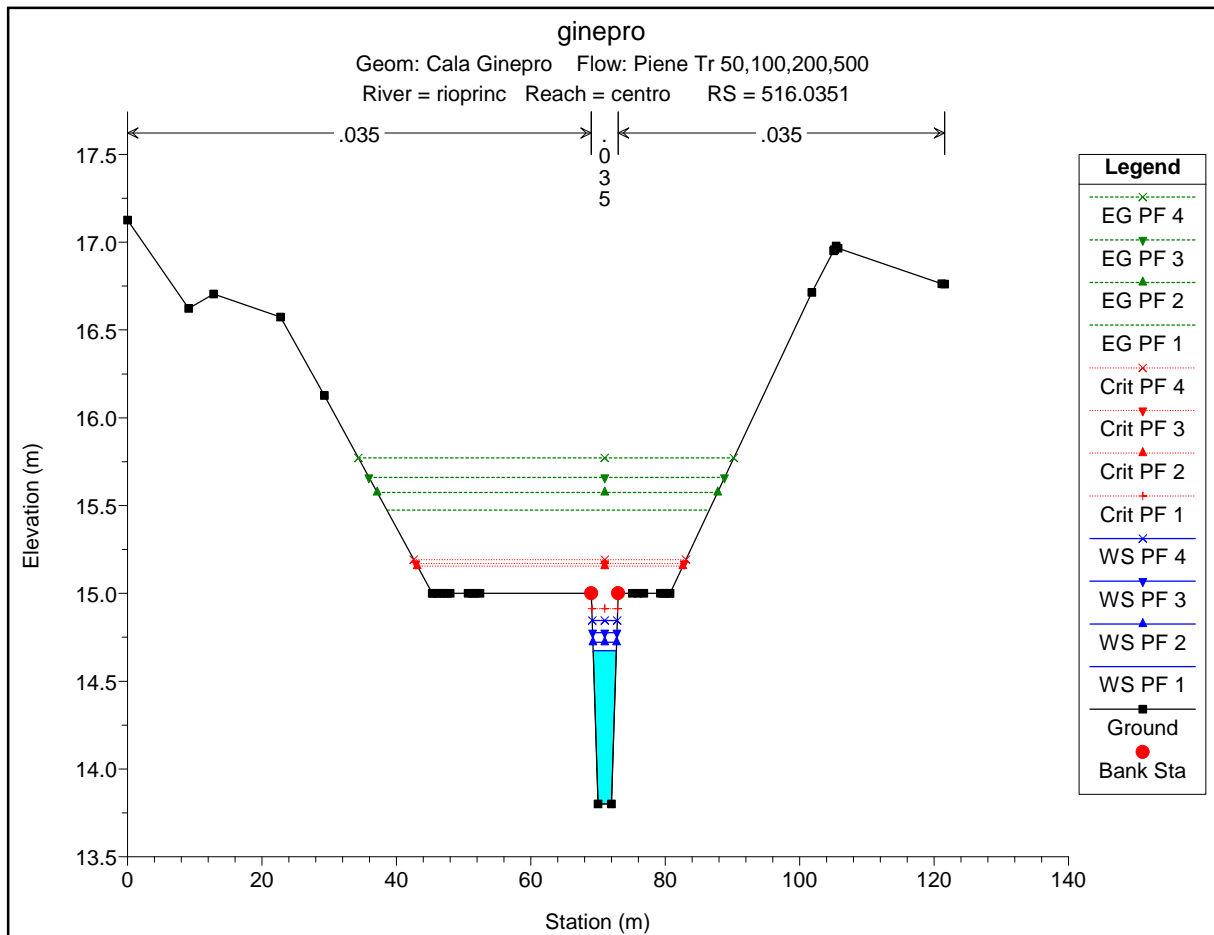


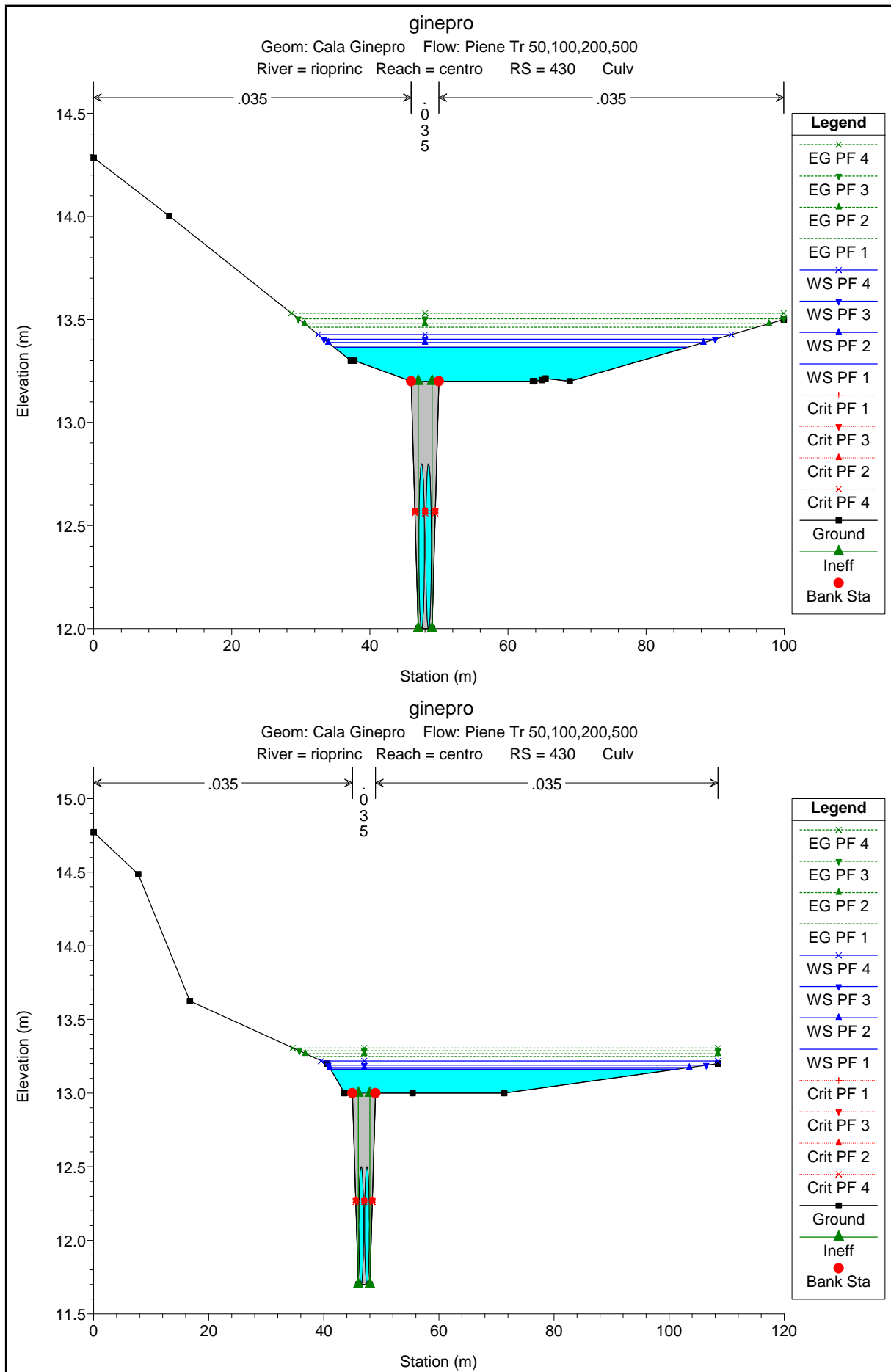


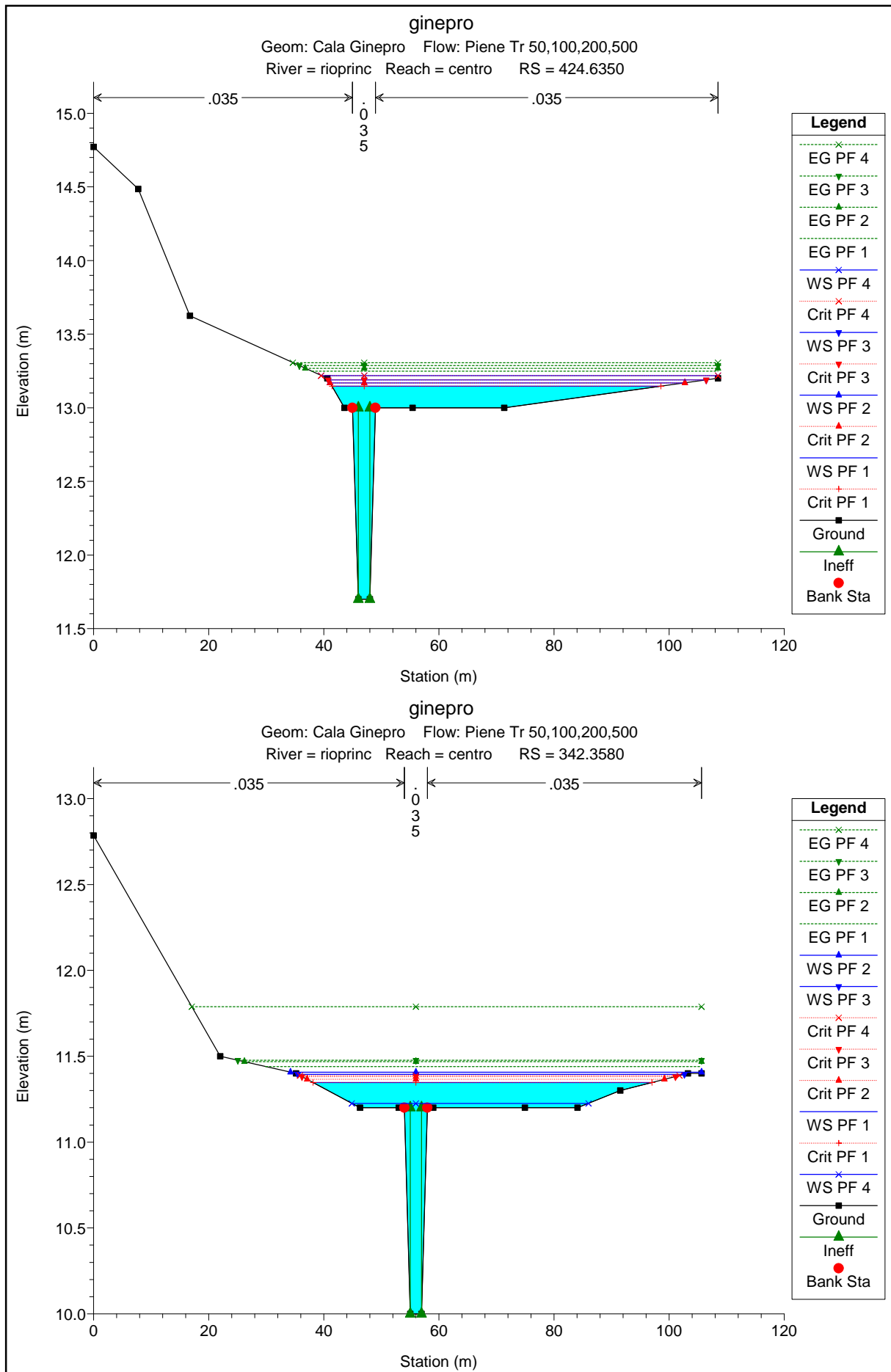


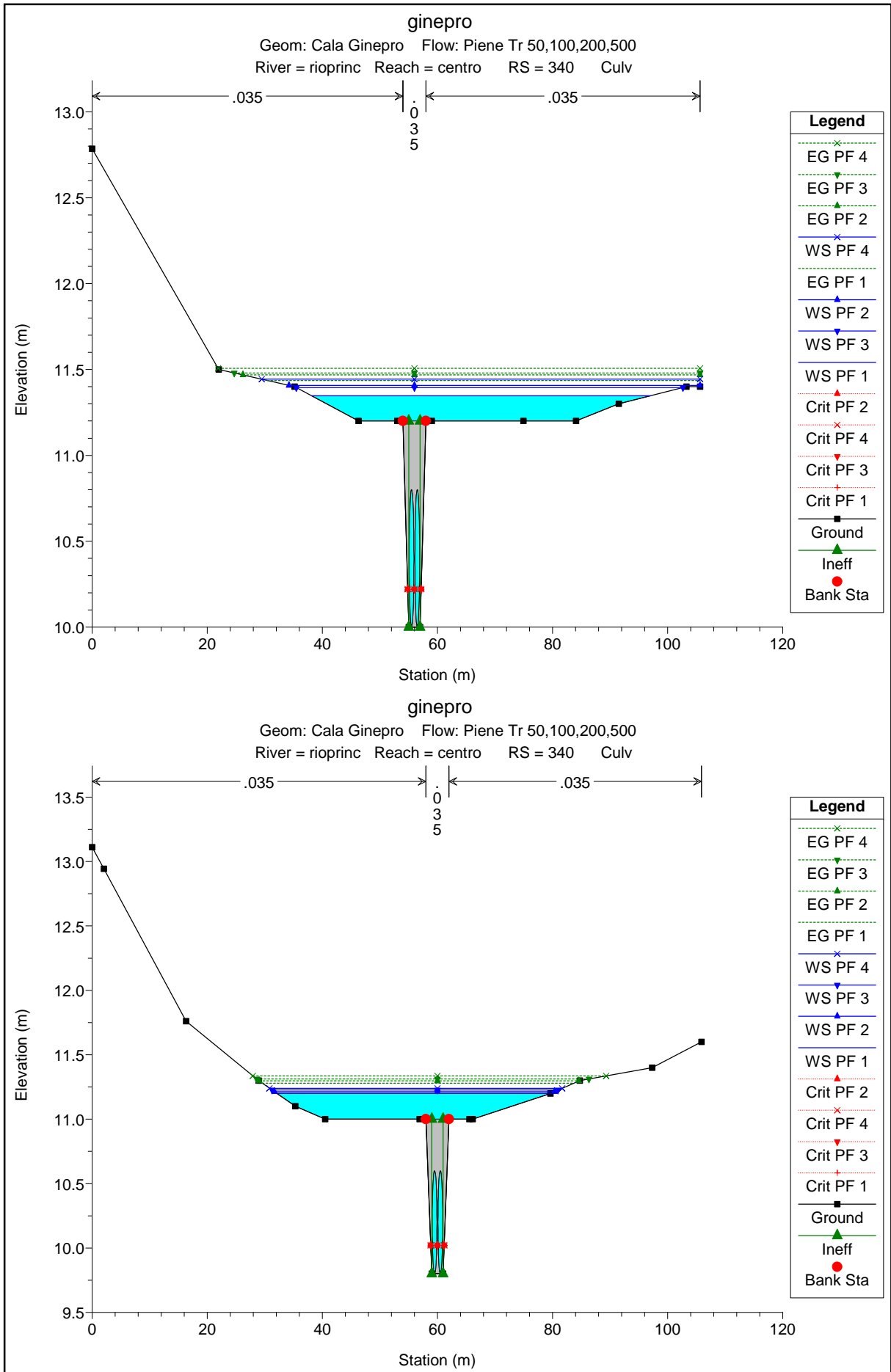


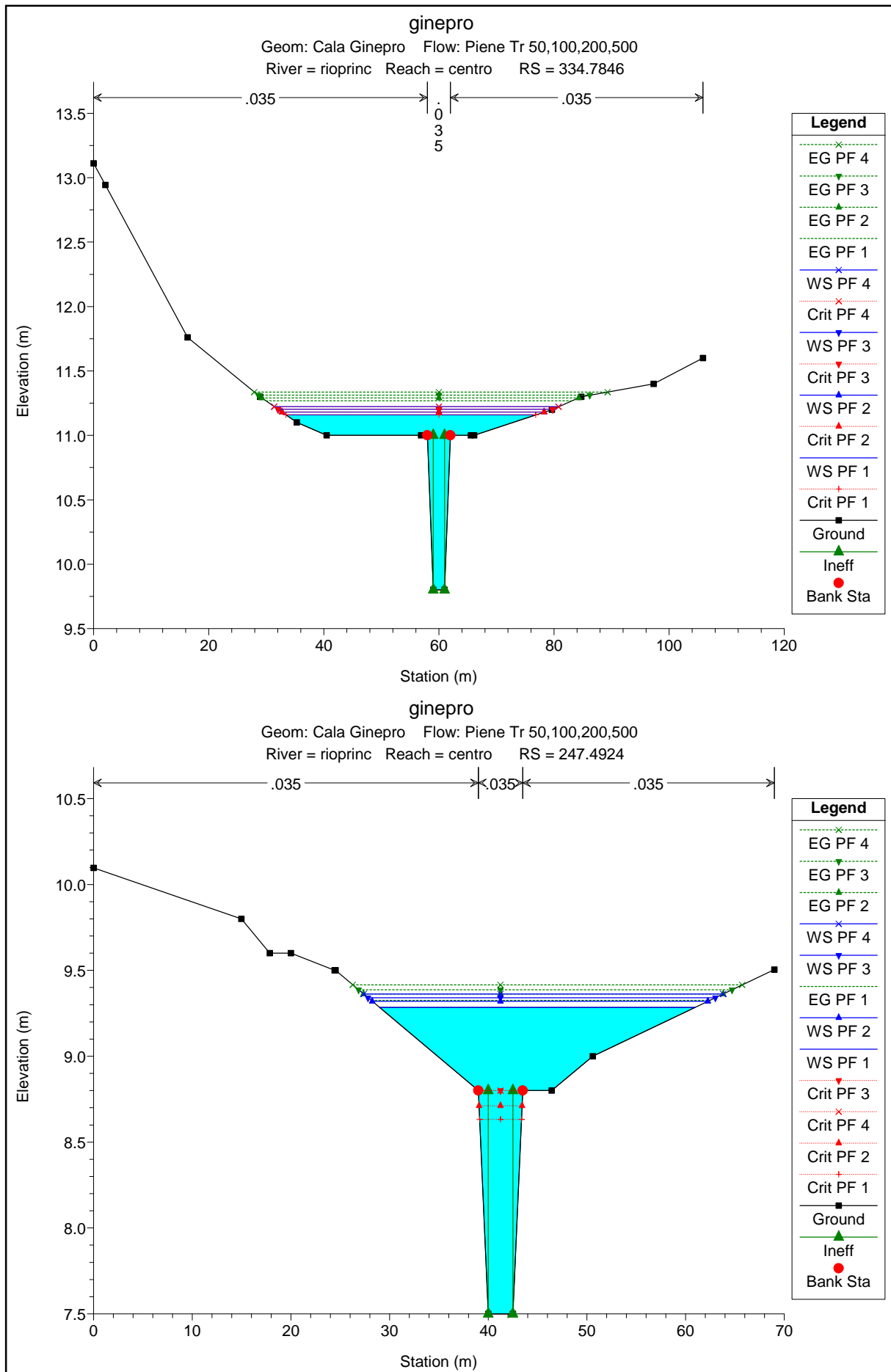


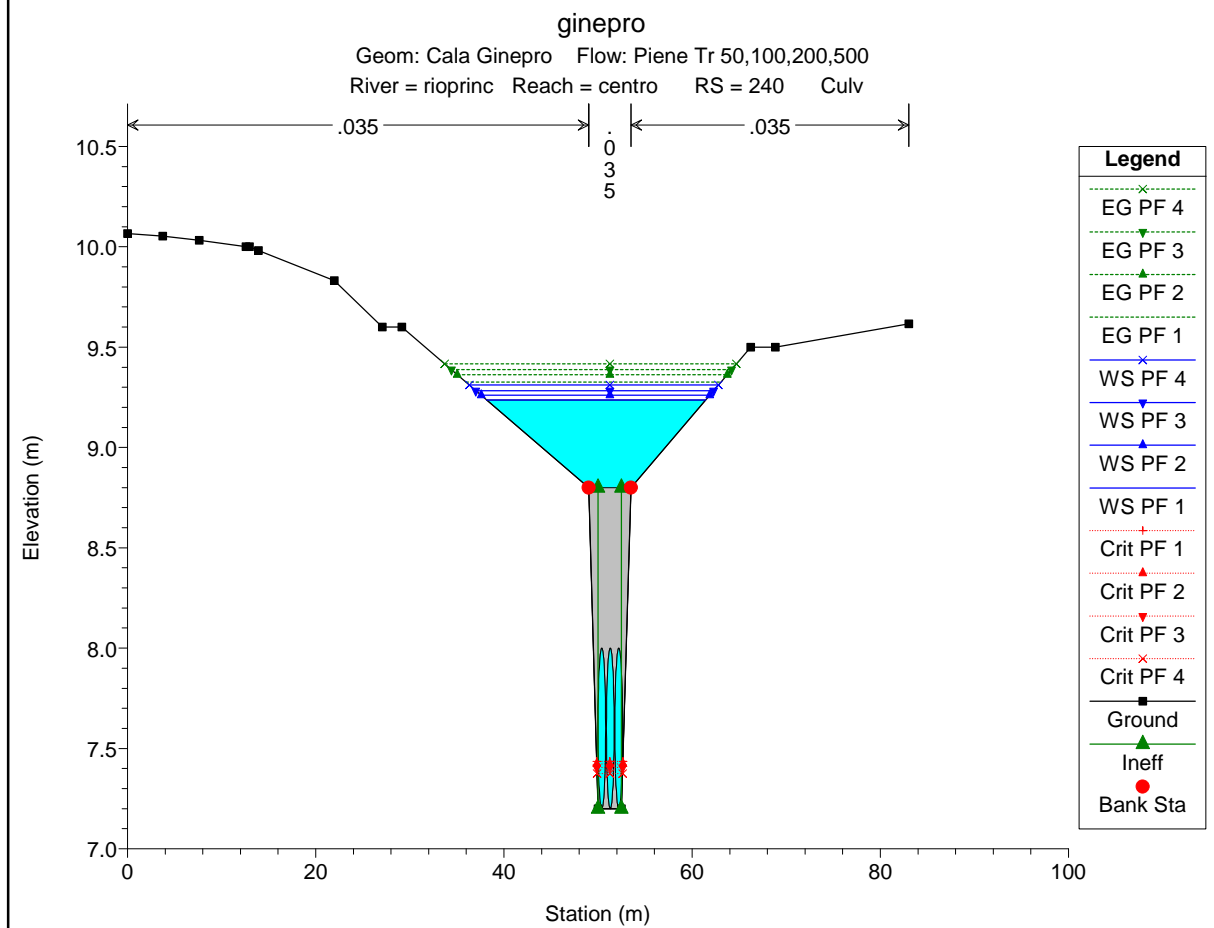
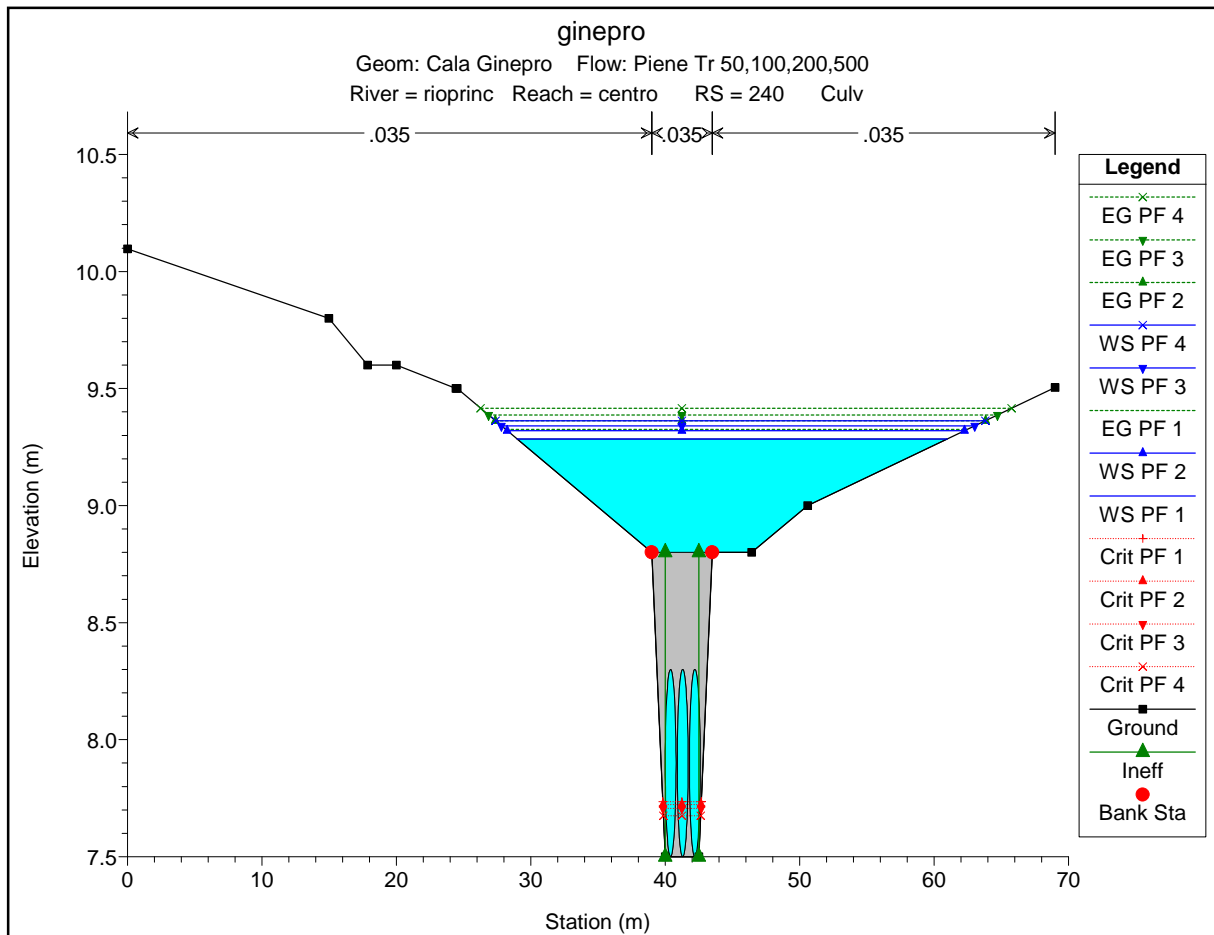


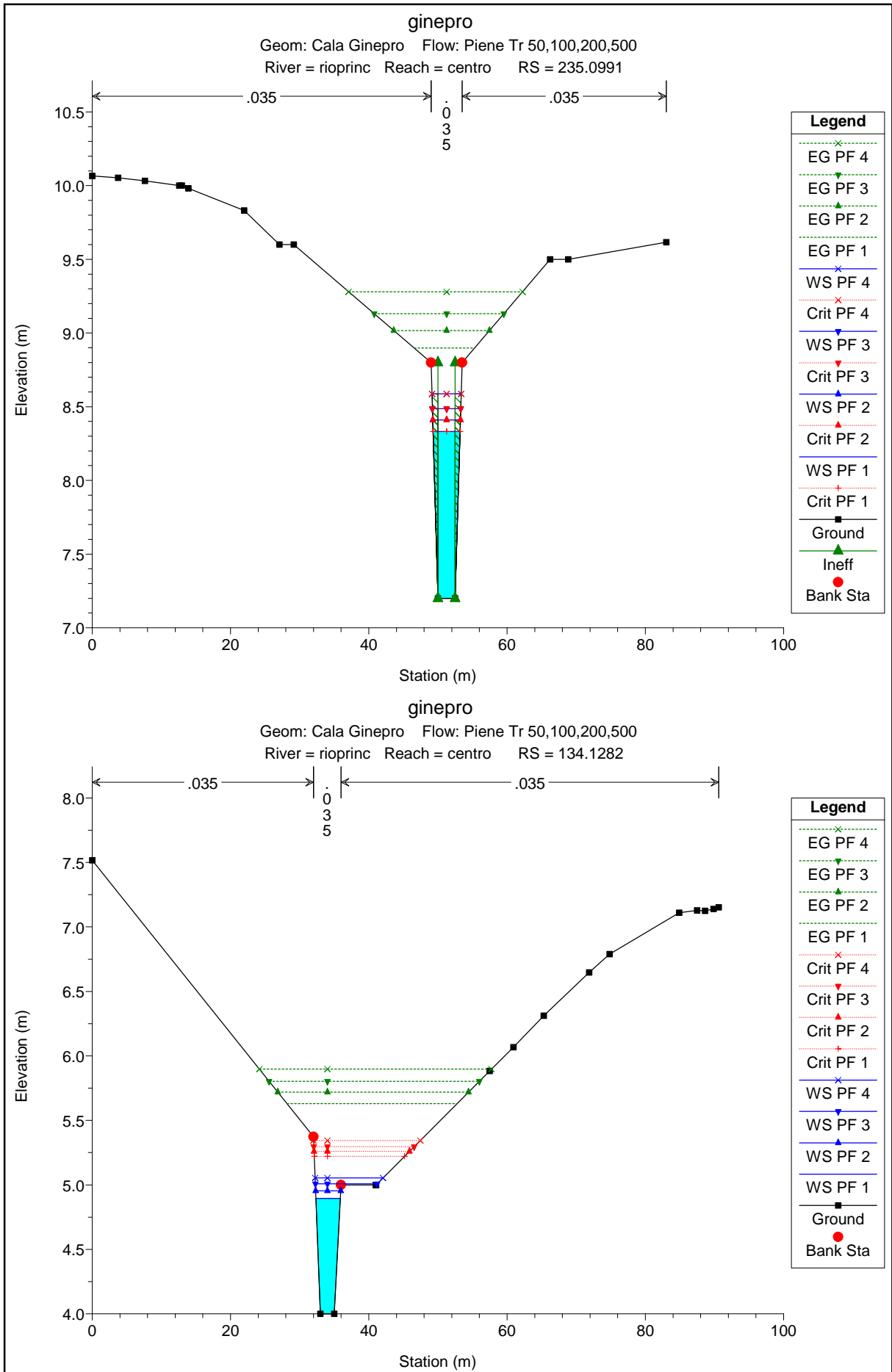


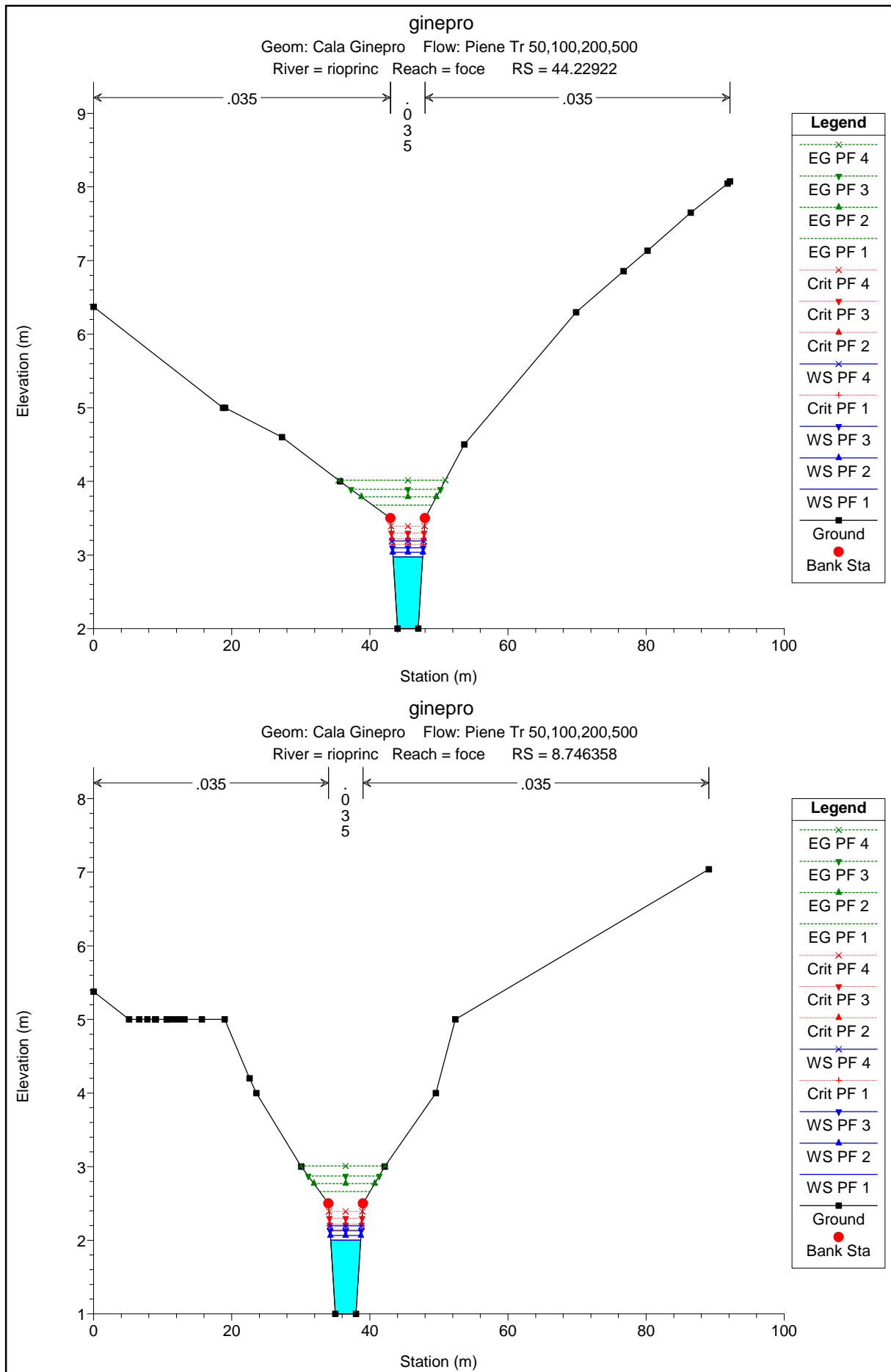


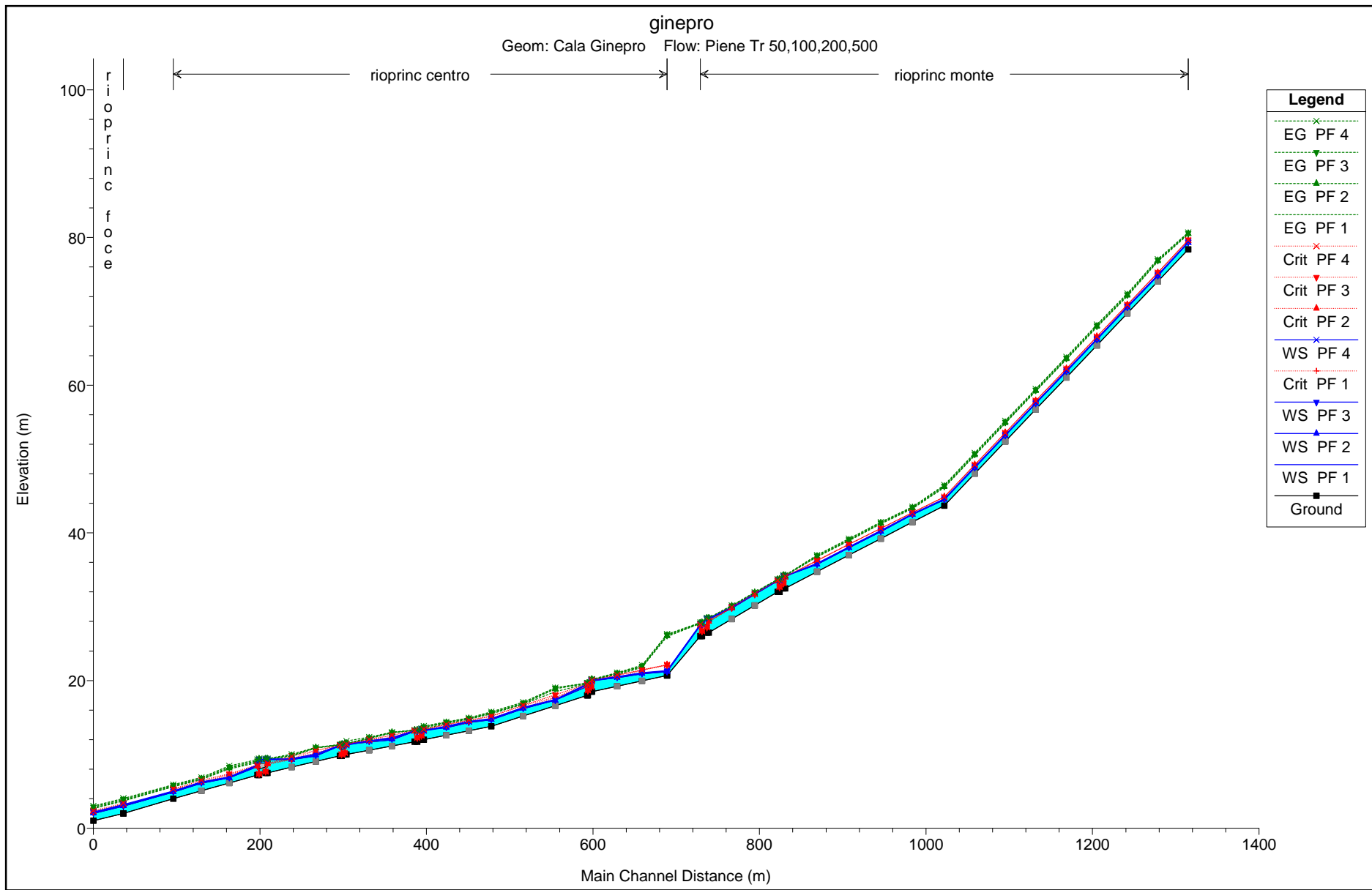








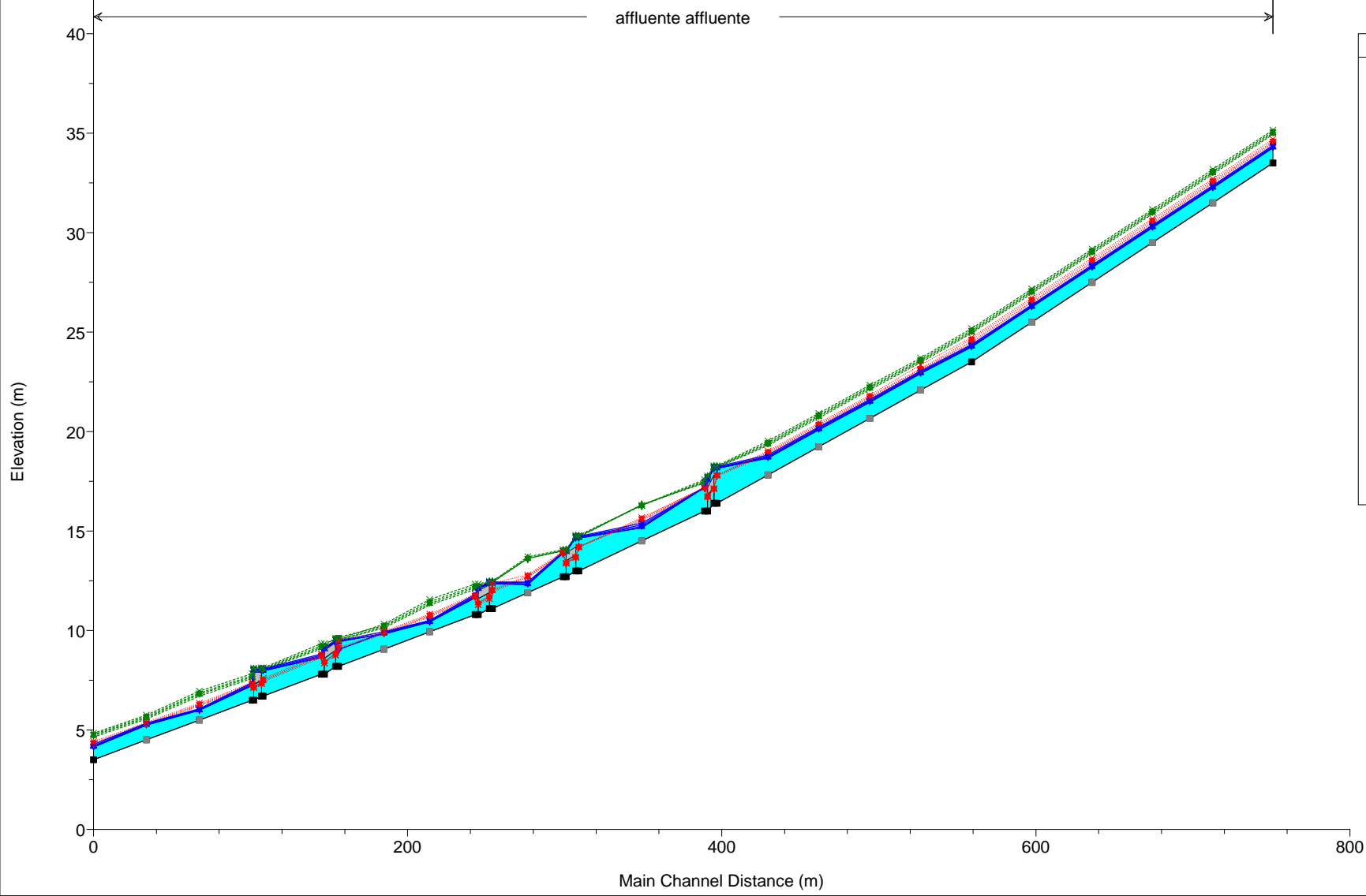




ginepro

Geom: Cala Ginepro Flow: Piene Tr 50,100,200,500

← affluente affluente →



Legend	
EG PF 4	Green dashed line with 'x' markers
EG PF 3	Green dashed line with inverted triangle markers
EG PF 2	Green dashed line with triangle markers
EG PF 1	Green dashed line with square markers
Crit PF 4	Red dotted line with 'x' markers
Crit PF 3	Red dotted line with inverted triangle markers
Crit PF 2	Red dotted line with triangle markers
WS PF 4	Blue solid line with 'x' markers
WS PF 3	Blue solid line with inverted triangle markers
WS PF 2	Blue solid line with triangle markers
WS PF 1	Blue solid line with square markers
Ground	Black solid line with square markers

HEC-RAS Plan: Plan 01

River	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
rioprinc	monte	1408.195	PF 1	8.09	78.40	79.31	79.62	80.42	0.070003	4.67	1.73	2.82	1.90
rioprinc	monte	1408.195	PF 2	8.80	78.40	79.35	79.63	80.51	0.070134	4.77	1.84	2.89	1.91
rioprinc	monte	1408.195	PF 3	9.50	78.40	79.38	79.65	80.59	0.070130	4.87	1.95	2.97	1.92
rioprinc	monte	1408.195	PF 4	10.50	78.40	79.42	79.66	80.69	0.070099	5.02	2.29	15.67	1.93
rioprinc	monte	1115.289	PF 1	8.09	43.70	44.49	44.85	46.14	0.118410	5.68	1.42	2.59	2.44
rioprinc	monte	1115.289	PF 2	8.80	43.70	44.53	44.86	46.24	0.118452	5.80	1.52	2.66	2.45
rioprinc	monte	1115.289	PF 3	9.50	43.70	44.56	44.87	46.35	0.118512	5.92	1.60	2.72	2.46
rioprinc	monte	1115.289	PF 4	10.50	43.70	44.61	44.88	46.49	0.118509	6.07	1.73	2.81	2.47
rioprinc	monte	924.7559	PF 1	8.09	32.50	34.12	33.99	34.20	0.003006	1.45	8.97	30.83	0.42
rioprinc	monte	924.7559	PF 2	8.80	32.50	34.13	34.01	34.22	0.003361	1.54	9.24	31.61	0.44
rioprinc	monte	924.7559	PF 3	9.50	32.50	34.14	34.05	34.23	0.003750	1.63	9.46	32.21	0.47
rioprinc	monte	924.7559	PF 4	10.50	32.50	34.16	34.09	34.26	0.003869	1.68	10.34	34.53	0.48
rioprinc	monte	920		Culvert									
rioprinc	monte	915.5064	PF 1	8.09	32.00	33.49	33.49	33.65	0.006389	1.96	5.94	21.34	0.60
rioprinc	monte	915.5064	PF 2	8.80	32.00	33.52	33.52	33.68	0.006356	1.99	6.56	23.23	0.60
rioprinc	monte	915.5064	PF 3	9.50	32.00	33.55	33.55	33.70	0.006257	2.00	7.21	25.11	0.60
rioprinc	monte	915.5064	PF 4	10.50	32.00	33.58	33.58	33.73	0.006193	2.03	8.08	27.43	0.60
rioprinc	monte	832.4974	PF 1	8.09	26.50	28.32	27.94	28.39	0.002015	1.31	8.50	16.57	0.35
rioprinc	monte	832.4974	PF 2	8.80	26.50	28.35	28.01	28.42	0.002155	1.37	8.90	17.09	0.36
rioprinc	monte	832.4974	PF 3	9.50	26.50	28.40	28.06	28.47	0.002034	1.36	9.79	18.19	0.36
rioprinc	monte	832.4974	PF 4	10.50	26.50	28.40	28.11	28.48	0.002450	1.50	9.85	18.26	0.39
rioprinc	monte	830		Culvert									
rioprinc	monte	822.5591	PF 1	8.09	26.00	27.46	27.46	27.72	0.009477	2.34	4.09	9.99	0.73
rioprinc	monte	822.5591	PF 2	8.80	26.00	27.52	27.52	27.76	0.008644	2.31	4.70	11.52	0.70
rioprinc	monte	822.5591	PF 3	9.50	26.00	27.56	27.56	27.80	0.008171	2.31	5.25	12.72	0.68
rioprinc	monte	822.5591	PF 4	10.50	26.00	27.61	27.61	27.84	0.007852	2.33	5.93	14.10	0.68
rioprinc	centro	727.0487	PF 1	9.44	20.70	21.21	22.09	25.96	0.470042	9.66	0.98	2.35	4.78
rioprinc	centro	727.0487	PF 2	10.44	20.70	21.25	22.11	26.08	0.443979	9.74	1.07	2.41	4.67
rioprinc	centro	727.0487	PF 3	11.44	20.70	21.29	22.13	26.17	0.418019	9.79	1.17	2.48	4.55
rioprinc	centro	727.0487	PF 4	12.79	20.70	21.34	22.16	26.25	0.386423	9.82	1.30	2.57	4.40
rioprinc	centro	637.6508	PF 1	9.44	18.50	20.03	20.03	20.12	0.002807	1.48	11.52	71.61	0.42
rioprinc	centro	637.6508	PF 2	10.44	18.50	19.93	19.93	20.11	0.005882	2.02	7.07	26.10	0.61
rioprinc	centro	637.6508	PF 3	11.44	18.50	19.98	19.98	20.15	0.005441	1.99	8.37	30.52	0.59
rioprinc	centro	637.6508	PF 4	12.79	18.50	20.09	20.09	20.17	0.003165	1.61	15.27	75.73	0.45
rioprinc	centro	635		Culvert									
rioprinc	centro	631.2189	PF 1	9.44	18.00	19.20	19.20	19.55	0.013488	2.62	3.60	4.00	0.88
rioprinc	centro	631.2189	PF 2	10.44	18.00	19.43	19.43	19.61	0.005875	2.01	7.08	26.18	0.60
rioprinc	centro	631.2189	PF 3	11.44	18.00	19.48	19.48	19.64	0.005402	1.99	8.42	30.70	0.58
rioprinc	centro	631.2189	PF 4	12.79	18.00	19.53	19.53	19.68	0.004872	1.94	10.15	34.30	0.56
rioprinc	centro	516.0351	PF 1	9.44	13.80	14.67	14.91	15.47	0.041962	3.96	2.38	3.46	1.52
rioprinc	centro	516.0351	PF 2	10.44	13.80	14.72	15.16	15.57	0.042426	4.09	2.55	3.54	1.54
rioprinc	centro	516.0351	PF 3	11.44	13.80	14.78	15.17	15.66	0.041526	4.16	2.75	3.63	1.53
rioprinc	centro	516.0351	PF 4	12.79	13.80	14.84	15.19	15.77	0.040784	4.26	3.00	3.74	1.52
rioprinc	centro	435.2359	PF 1	9.44	12.00	13.36	13.36	13.47	0.004193	1.64	9.80	51.10	0.51
rioprinc	centro	435.2359	PF 2	10.44	12.00	13.21	13.39	13.63	0.015979	2.87	3.76	22.44	0.96
rioprinc	centro	435.2359	PF 3	11.44	12.00	13.20	13.40	13.71	0.019641	3.17	3.64	19.22	1.07
rioprinc	centro	435.2359	PF 4	12.79	12.00	13.22	13.43	13.82	0.022459	3.44	4.10	26.90	1.14
rioprinc	centro	430		Culvert									
rioprinc	centro	424.6350	PF 1	9.44	11.70	13.15	13.15	13.25	0.003907	1.60	10.12	57.15	0.48
rioprinc	centro	424.6350	PF 2	10.44	11.70	13.17	13.17	13.27	0.003934	1.63	11.45	61.66	0.49
rioprinc	centro	424.6350	PF 3	11.44	11.70	13.19	13.19	13.29	0.003964	1.65	12.72	65.66	0.49
rioprinc	centro	424.6350	PF 4	12.79	11.70	13.22	13.22	13.31	0.003728	1.63	14.75	68.93	0.48
rioprinc	centro	342.3580	PF 1	9.44	10.00	11.35	11.35	11.44	0.004040	1.59	10.61	58.89	0.50
rioprinc	centro	342.3580	PF 2	10.44	10.00	11.41	11.37	11.47	0.002839	1.38	14.50	71.40	0.42
rioprinc	centro	342.3580	PF 3	11.44	10.00	11.40	11.38	11.48	0.003769	1.58	13.84	67.18	0.48
rioprinc	centro	342.3580	PF 4	12.79	10.00	11.23	11.39	11.79	0.021398	3.37	4.62	41.15	1.12
rioprinc	centro	340		Culvert									
rioprinc	centro	334.7846	PF 1	9.44	9.80	11.16	11.16	11.27	0.004438	1.68	9.13	43.39	0.52
rioprinc	centro	334.7846	PF 2	10.44	9.80	11.18	11.18	11.29	0.004540	1.72	10.09	45.55	0.53
rioprinc	centro	334.7846	PF 3	11.44	9.80	11.20	11.20	11.31	0.004543	1.74	11.12	47.71	0.53
rioprinc	centro	334.7846	PF 4	12.79	9.80	11.22	11.22	11.34	0.004791	1.81	12.12	49.42	0.55
rioprinc	centro	247.4924	PF 1	9.44	7.50	9.28	8.63	9.33	0.001046	1.02	13.66	32.00	0.27
rioprinc	centro	247.4924	PF 2	10.44	7.50	9.32	8.71	9.36	0.001092	1.06	14.83	34.02	0.27
rioprinc	centro	247.4924	PF 3	11.44	7.50	9.34	8.80	9.39	0.001196	1.12	15.55	35.21	0.29
rioprinc	centro	247.4924	PF 4	12.79	7.50	9.36	8.80	9.42	0.001359	1.21	16.32	36.43	0.31
rioprinc	centro	240		Culvert									
rioprinc	centro	235.0991	PF 1	9.44	7.20	8.33	8.33	8.90	0.011543	3.33	2.83	3.92	1.00
rioprinc	centro	235.0991	PF 2	10.44	7.20	8.41	8.41	9.02	0.011301	3.45	3.03	4.01	1.00
rioprinc	centro	235.0991	PF 3	11.44	7.20	8.49	8.49	9.13	0.011055	3.55	3.22	4.11	1.00

HEC-RAS Plan: Plan 01 (Continued)

River	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
rioprinc	centro	235.0991	PF 4	12.79	7.20	8.59	8.59	9.28	0.010784	3.69	3.47	4.23	1.00
rioprinc	centro	134.1282	PF 1	9.44	4.00	4.90	5.22	5.63	0.037550	3.80	2.49	3.55	1.45
rioprinc	centro	134.1282	PF 2	10.44	4.00	4.95	5.26	5.72	0.036820	3.88	2.69	3.65	1.44
rioprinc	centro	134.1282	PF 3	11.44	4.00	5.01	5.30	5.80	0.036173	3.95	2.93	8.93	1.43
rioprinc	centro	134.1282	PF 4	12.79	4.00	5.05	5.34	5.90	0.036685	4.10	3.36	9.82	1.45
rioprinc	foce	44.22922	PF 1	13.22	2.00	2.97	3.14	3.68	0.029283	3.72	3.55	4.30	1.31
rioprinc	foce	44.22922	PF 2	14.70	2.00	3.04	3.22	3.79	0.029289	3.84	3.83	4.38	1.31
rioprinc	foce	44.22922	PF 3	16.18	2.00	3.10	3.30	3.89	0.029228	3.95	4.10	4.46	1.32
rioprinc	foce	44.22922	PF 4	18.18	2.00	3.19	3.39	4.02	0.028144	4.03	4.51	4.59	1.30
rioprinc	foce	8.746358	PF 1	13.22	1.00	2.00	2.14	2.66	0.026605	3.60	3.67	4.33	1.25
rioprinc	foce	8.746358	PF 2	14.70	1.00	2.07	2.22	2.77	0.026625	3.71	3.96	4.42	1.25
rioprinc	foce	8.746358	PF 3	16.18	1.00	2.13	2.30	2.87	0.026690	3.82	4.23	4.50	1.26
rioprinc	foce	8.746358	PF 4	18.18	1.00	2.20	2.39	3.01	0.027542	4.00	4.55	4.60	1.28
affluente	affluente	780.5717	PF 1	4.88	33.50	34.26	34.47	34.93	0.050019	3.62	1.35	2.53	1.58
affluente	affluente	780.5717	PF 2	5.36	33.50	34.30	34.53	35.00	0.050032	3.71	1.45	2.60	1.59
affluente	affluente	780.5717	PF 3	5.84	33.50	34.34	34.60	35.07	0.050039	3.79	1.54	2.68	1.60
affluente	affluente	780.5717	PF 4	6.50	33.50	34.39	34.70	35.16	0.050005	3.90	1.67	2.77	1.60
affluente	affluente	588.5076	PF 1	4.88	23.50	24.26	24.47	24.94	0.052187	3.68	1.33	2.51	1.61
affluente	affluente	588.5076	PF 2	5.36	23.50	24.29	24.53	25.02	0.052171	3.77	1.42	2.59	1.62
affluente	affluente	588.5076	PF 3	5.84	23.50	24.33	24.65	25.08	0.052162	3.85	1.52	2.66	1.63
affluente	affluente	588.5076	PF 4	6.50	23.50	24.38	24.73	25.17	0.052154	3.96	1.64	2.75	1.64
affluente	affluente	426.7647	PF 1	4.88	16.40	18.15	17.74	18.19	0.001520	1.00	6.86	18.10	0.28
affluente	affluente	426.7647	PF 2	5.36	16.40	18.18	17.80	18.22	0.001570	1.03	7.23	19.29	0.29
affluente	affluente	426.7647	PF 3	5.84	16.40	18.19	17.80	18.24	0.001745	1.09	7.48	19.80	0.30
affluente	affluente	426.7647	PF 4	6.50	16.40	18.23	17.80	18.28	0.001718	1.11	8.40	21.55	0.30
affluente	affluente	420		Culvert									
affluente	affluente	418.5300	PF 1	4.88	16.00	17.20	17.20	17.42	0.010751	2.06	2.37	2.95	0.73
affluente	affluente	418.5300	PF 2	5.36	16.00	17.20	17.20	17.46	0.012970	2.26	2.37	2.95	0.81
affluente	affluente	418.5300	PF 3	5.84	16.00	17.20	17.20	17.51	0.015397	2.46	2.37	2.95	0.88
affluente	affluente	418.5300	PF 4	6.50	16.00	17.20	17.20	17.58	0.019069	2.74	2.37	2.95	0.98
affluente	affluente	338	PF 1	4.88	13.00	14.64	14.20	14.69	0.001531	1.05	6.14	13.90	0.30
affluente	affluente	338	PF 2	5.36	13.00	14.68	14.20	14.73	0.001563	1.08	6.67	14.80	0.30
affluente	affluente	338	PF 3	5.84	13.00	14.70	14.20	14.75	0.001704	1.13	6.95	15.27	0.32
affluente	affluente	338	PF 4	6.50	13.00	14.73	14.20	14.79	0.001798	1.19	7.50	16.13	0.33
affluente	affluente	330		Culvert									
affluente	affluente	328	PF 1	4.88	12.70	13.90	13.90	13.99	0.003604	1.36	3.60	44.97	0.46
affluente	affluente	328	PF 2	5.36	12.70	13.90	13.90	14.01	0.004347	1.49	3.60	44.97	0.50
affluente	affluente	328	PF 3	5.84	12.70	13.90	13.90	14.03	0.005161	1.62	3.60	44.97	0.55
affluente	affluente	328	PF 4	6.50	12.70	13.97	13.97	14.06	0.003666	1.44	7.02	49.96	0.47
affluente	affluente	283.7661	PF 1	4.88	11.10	12.35	11.95	12.42	0.002438	1.16	6.14	48.80	0.38
affluente	affluente	283.7661	PF 2	5.36	11.10	12.39	12.00	12.44	0.002070	1.10	8.00	51.20	0.35
affluente	affluente	283.7661	PF 3	5.84	11.10	12.42	12.05	12.46	0.001890	1.07	9.38	52.93	0.34
affluente	affluente	283.7661	PF 4	6.50	11.10	12.43	12.37	12.48	0.002067	1.12	10.06	53.75	0.35
affluente	affluente	280		Culvert									
affluente	affluente	272.9393	PF 1	4.88	10.80	11.65	11.65	12.07	0.012657	2.88	1.70	3.41	1.00
affluente	affluente	272.9393	PF 2	5.36	10.80	11.70	11.70	12.15	0.012470	2.98	1.80	3.50	1.00
affluente	affluente	272.9393	PF 3	5.84	10.80	11.75	11.75	12.23	0.012188	3.06	1.91	3.59	1.00
affluente	affluente	272.9393	PF 4	6.50	10.80	11.82	11.82	12.34	0.011926	3.17	2.05	3.71	1.00
affluente	affluente	185.8015	PF 1	4.88	8.20	9.47	9.05	9.52	0.002170	1.10	7.04	61.94	0.36
affluente	affluente	185.8015	PF 2	5.36	8.20	9.43	9.10	9.53	0.003753	1.41	4.69	51.17	0.47
affluente	affluente	185.8015	PF 3	5.84	8.20	9.03	9.15	9.66	0.019154	3.50	1.67	3.39	1.22
affluente	affluente	185.8015	PF 4	6.50	8.20	9.49	9.48	9.56	0.003023	1.32	8.53	66.33	0.42
affluente	affluente	180		Culvert									
affluente	affluente	174.1916	PF 1	4.88	7.80	8.65	8.65	9.07	0.012666	2.88	1.89	3.41	1.00
affluente	affluente	174.1916	PF 2	5.36	7.80	8.70	8.70	9.15	0.012377	2.97	1.81	3.50	1.00
affluente	affluente	174.1916	PF 3	5.84	7.80	8.75	8.75	9.23	0.012216	3.06	1.91	3.59	1.00
affluente	affluente	174.1916	PF 4	6.50	7.80	8.82	8.82	9.34	0.011949	3.17	2.05	3.71	1.00
affluente	affluente	137.6186	PF 1	4.88	6.70	7.97	7.43	8.02	0.001801	1.04	5.50	21.77	0.33
affluente	affluente	137.6186	PF 2	5.36	6.70	7.99	7.48	8.05	0.001900	1.09	6.06	23.22	0.34
affluente	affluente	137.6186	PF 3	5.84	6.70	8.03	7.52	8.08	0.001823	1.09	6.98	25.41	0.34
affluente	affluente	137.6186	PF 4	6.50	6.70	8.07	7.58	8.12	0.001789	1.11	8.04	27.73	0.34
affluente	affluente	135		Culvert									
affluente	affluente	130.7546	PF 1	4.88	6.50	7.23	7.23	7.59	0.013405	2.68	1.82	3.54	1.00
affluente	affluente	130.7546	PF 2	5.36	6.50	7.28	7.28	7.66	0.013007	2.76	1.94	3.61	1.00
affluente	affluente	130.7546	PF 3	5.84	6.50	7.32	7.32	7.73	0.012857	2.84	2.05	3.67	1.00
affluente	affluente	130.7546	PF 4	6.50	6.50	7.38	7.38	7.82	0.012555	2.95	2.21	3.76	1.00
affluente	affluente	29.53656	PF 1	4.88	3.50	4.13	4.27	4.65	0.037853	3.19	1.53	2.84	1.39
affluente	affluente	29.53656	PF 2	5.36	3.50	4.17	4.32	4.71	0.037579	3.27	1.64	2.89	1.39
affluente	affluente	29.53656	PF 3	5.84	3.50	4.21	4.36	4.78	0.037316	3.35	1.75	2.94	1.39

HEC-RAS Plan: Plan 01 (Continued)

River	Reach	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
				(m ³ /s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m ²)	(m)	
affluente	affluente	29.53656	PF 4	6.50	3.50	4.28	4.42	4.84	0.033694	3.33	1.95	3.03	1.32