



PROVINCIA DI SAVONA

**DIFESA DEL SUOLO E TUTELA AMBIENTALE
SERVIZIO PIANI DI BACINO**

VERIFICHE IDRAULICHE

Bacino: SEGNO

RIO TERRUSO



PROFILI DI RIGURGITO

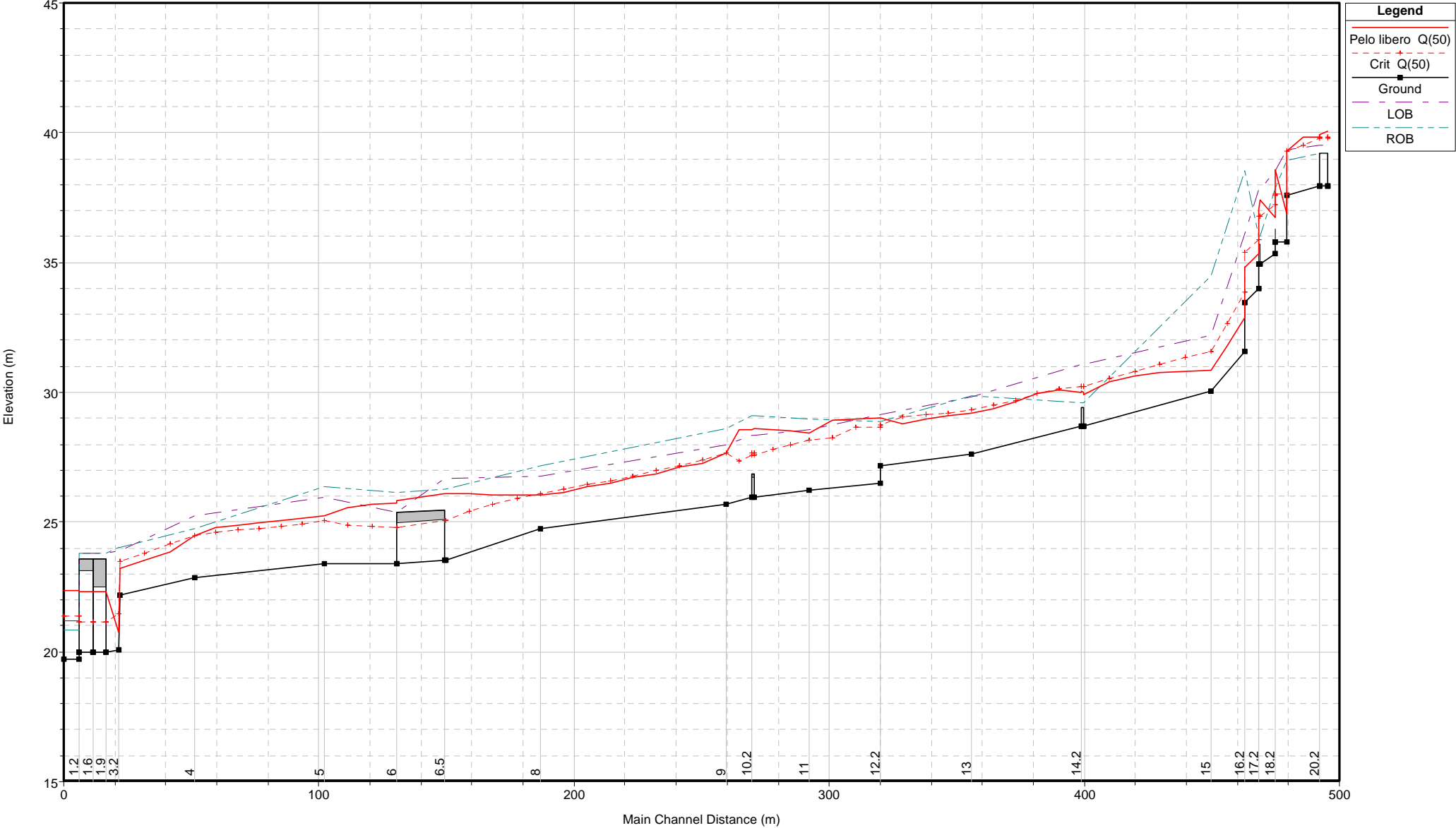
PER LE PORTATE

T=50, 200, 500 ANNI

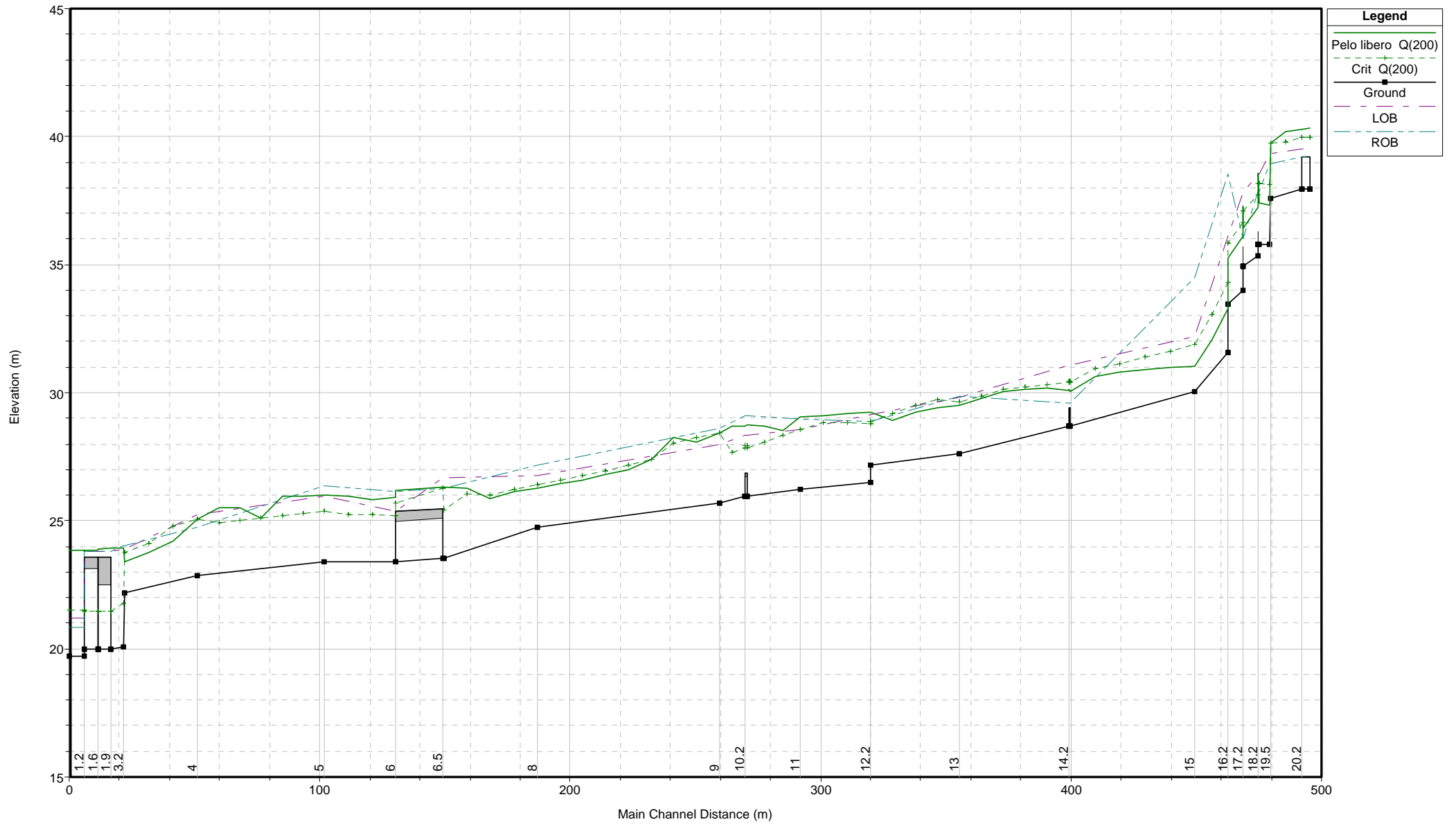
RIO TERRUSO

Dalla sez. 1 alla sez. 20.5

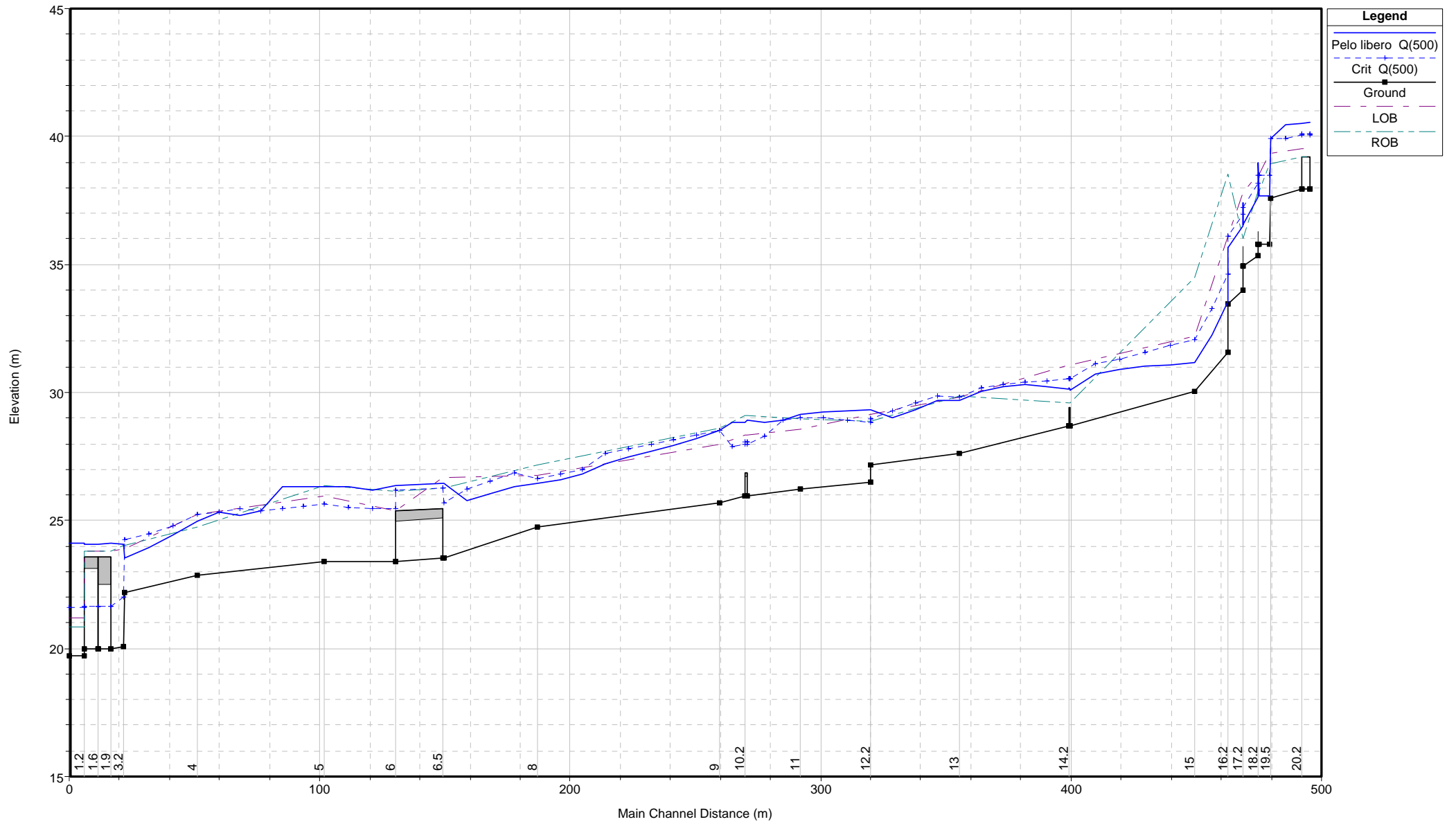
Rio Terruso – Profilo longitudinale di moto permanente per T=50 anni



Rio Terruso – Profilo longitudinale di moto permanente per T=200 anni



Rio Terruso – Profilo longitudinale di moto permanente per T=500 anni



GEOMETRIA DELLE SEZIONI

E LIVELLI IDRICI

PER LE PORTATE

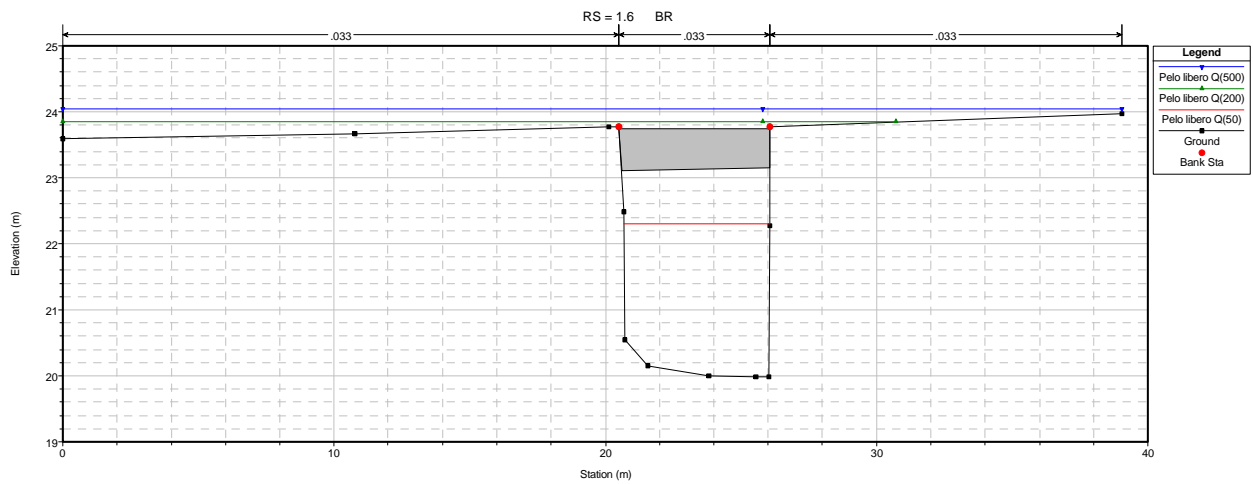
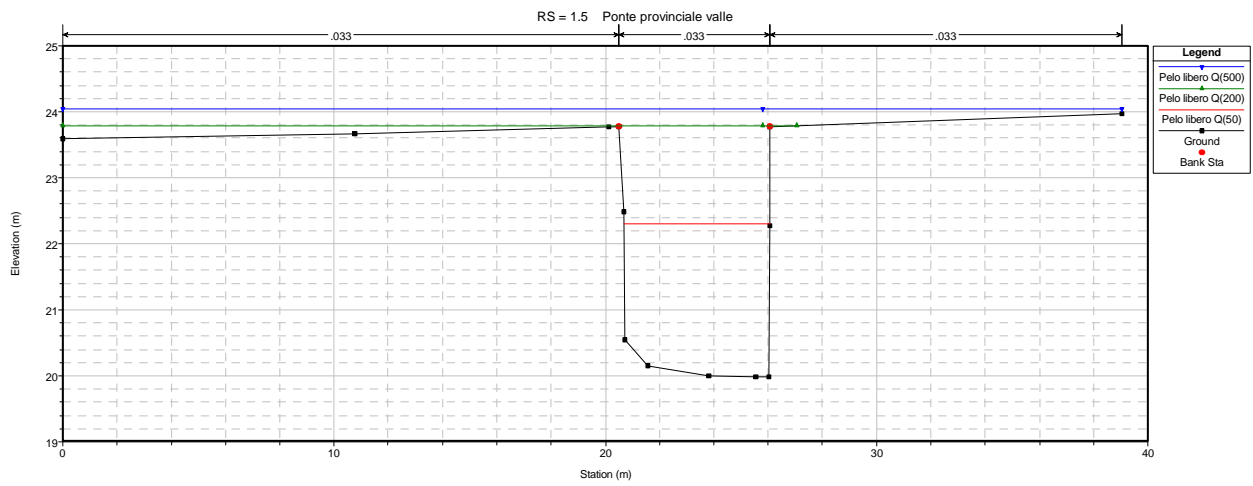
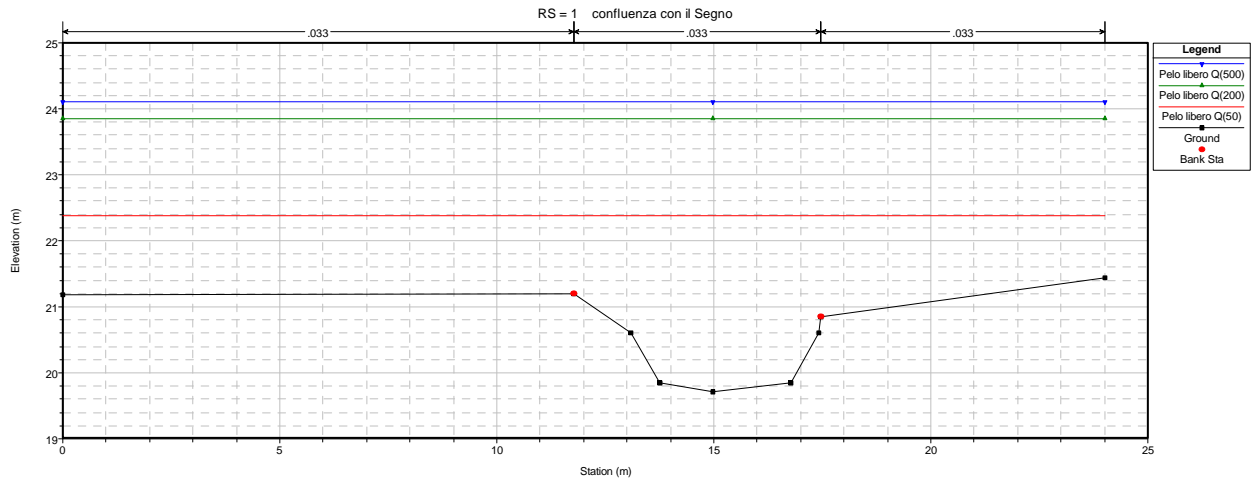
T=50. 200. 500 ANNI

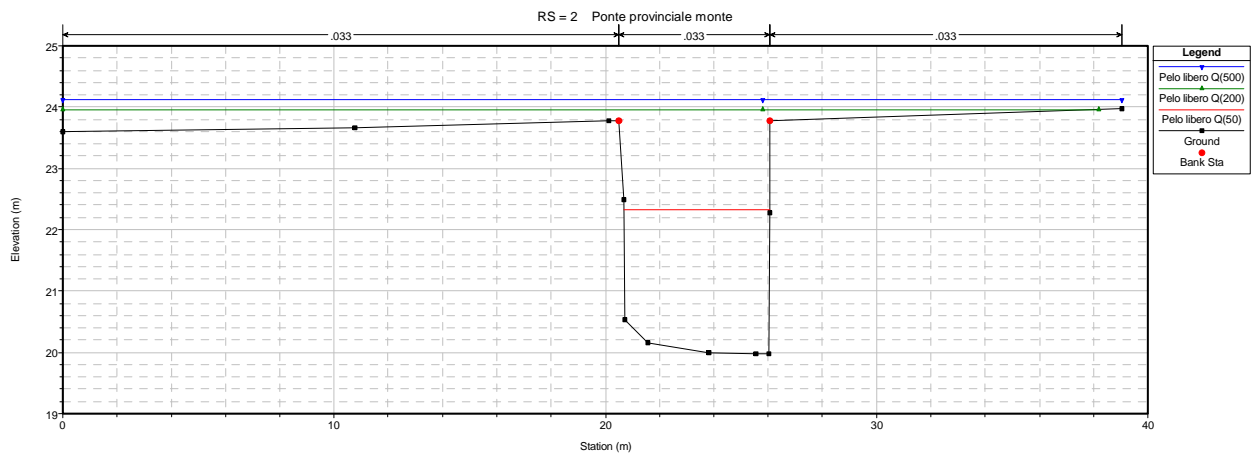
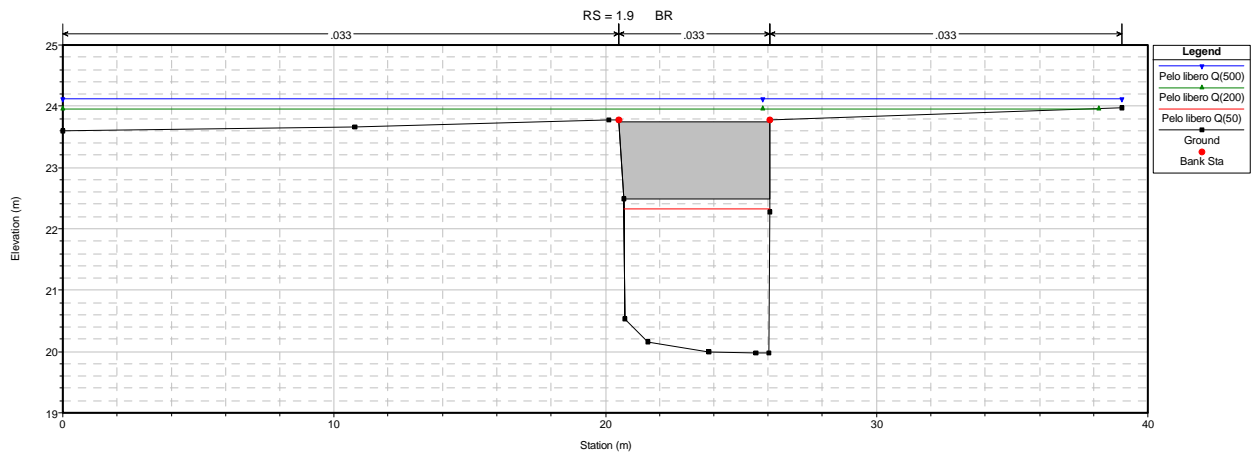
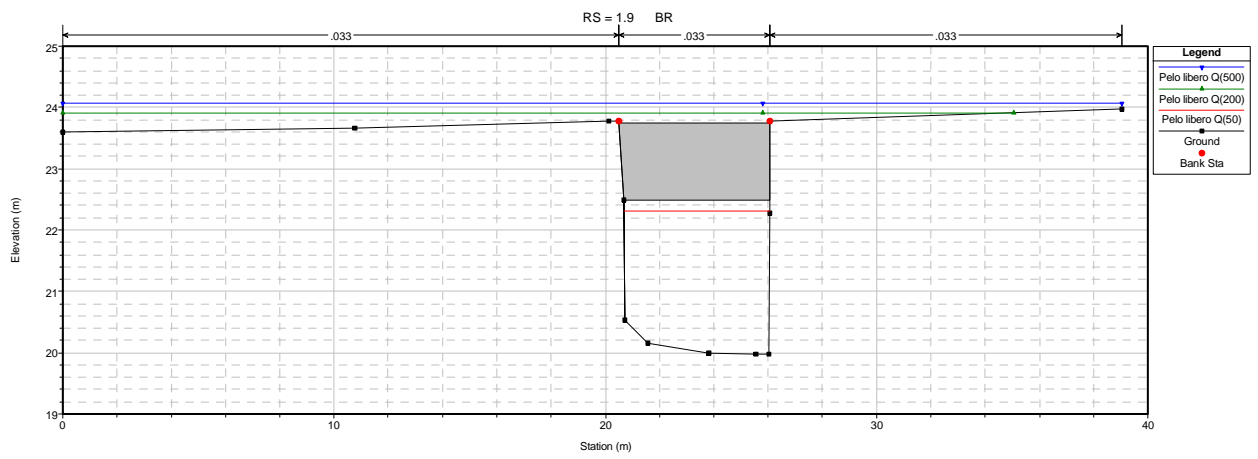
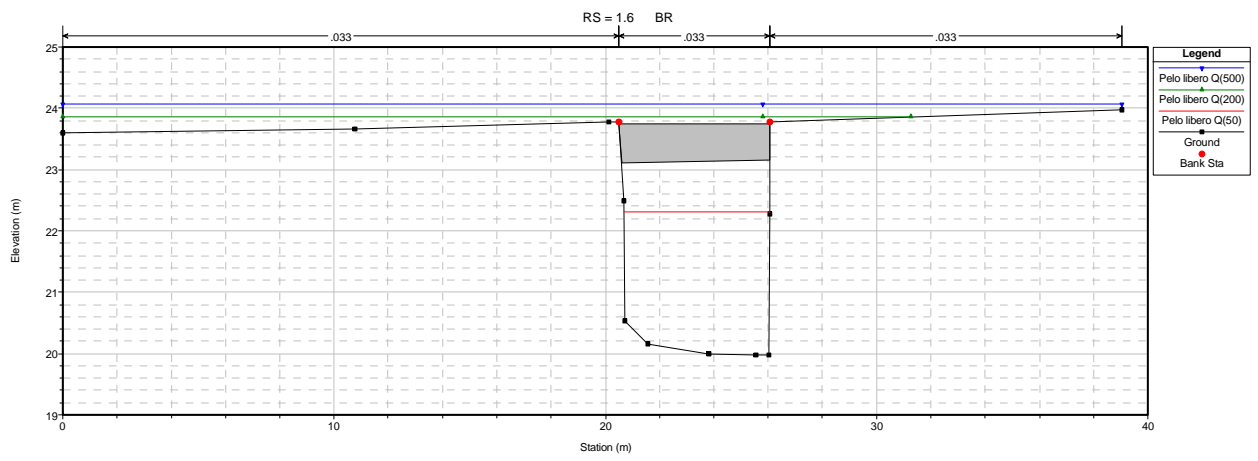
RIO TERRUSO

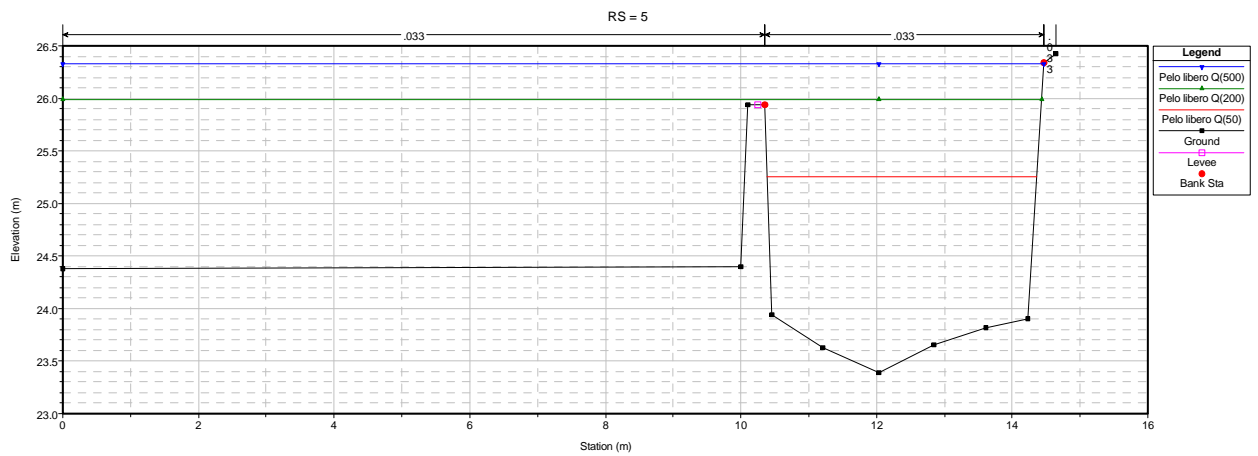
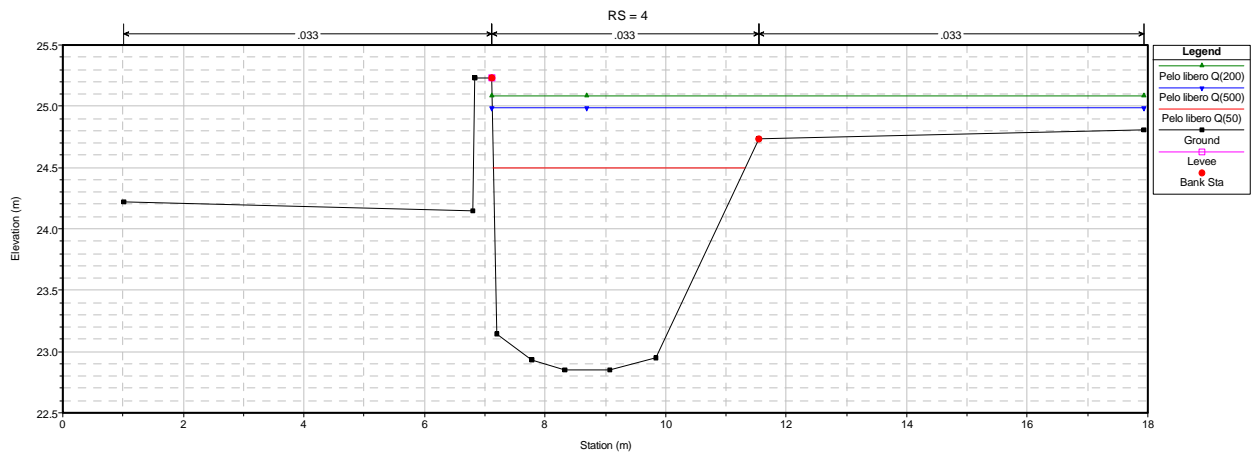
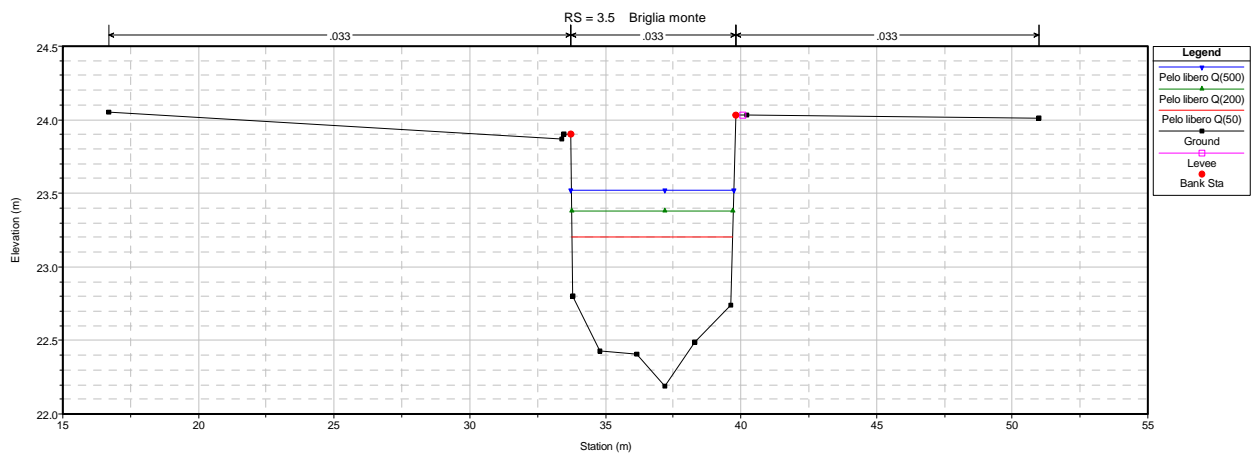
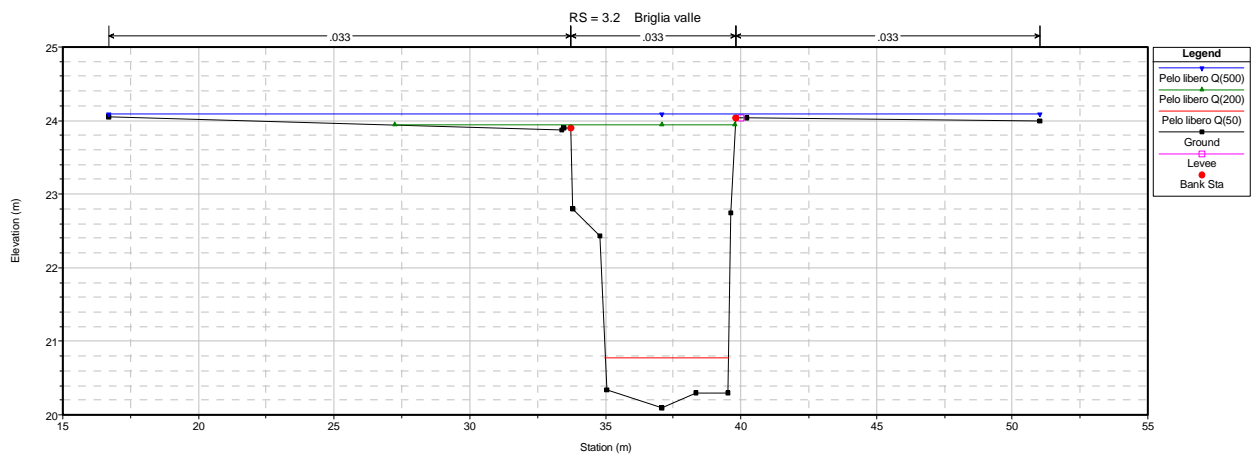
Dalla sez. 1 alla sez. 20.5

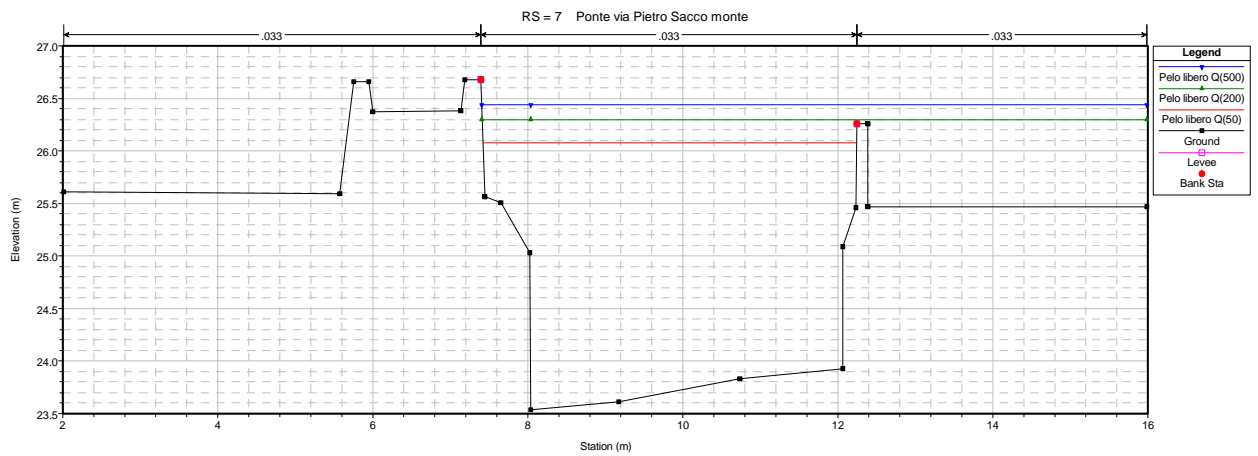
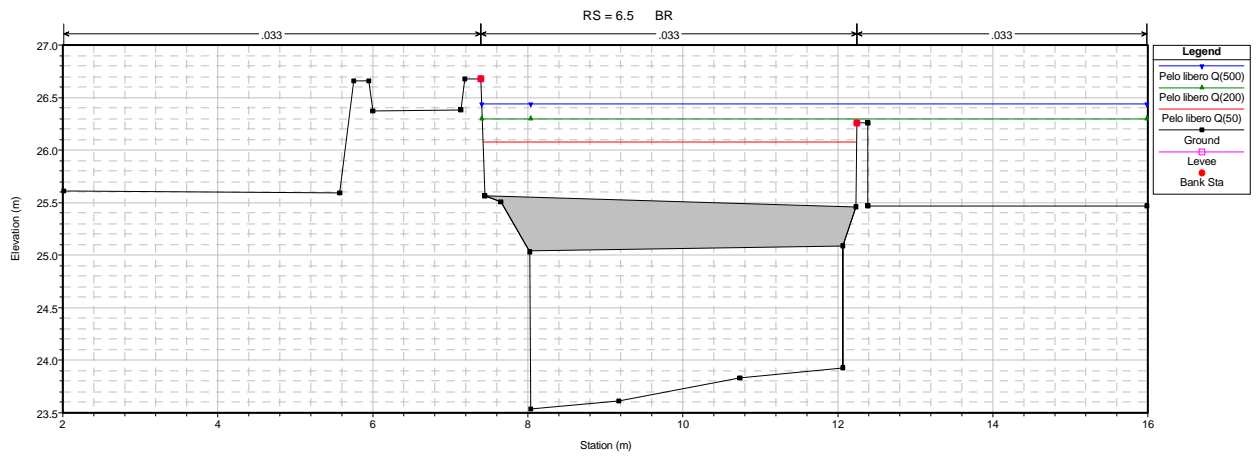
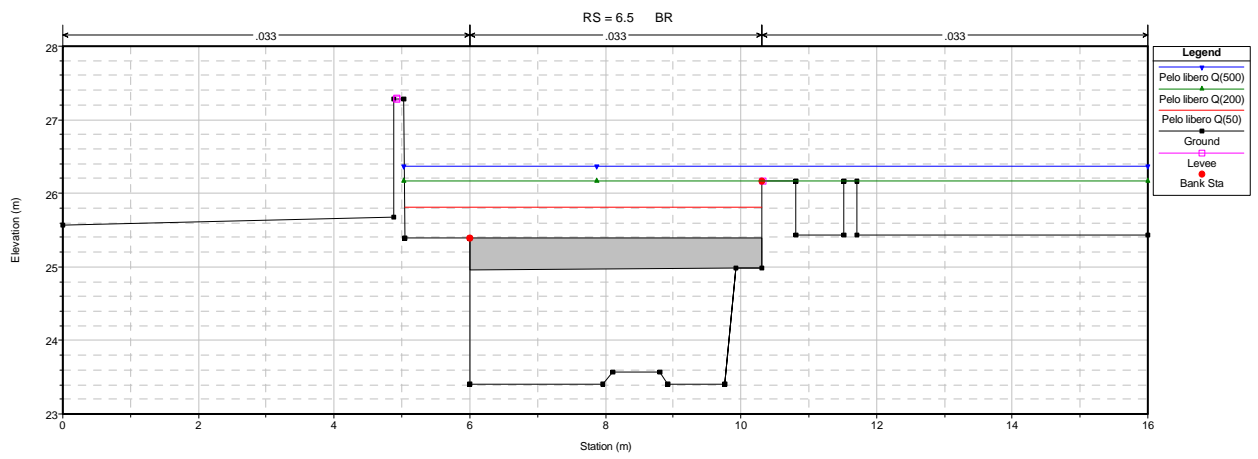
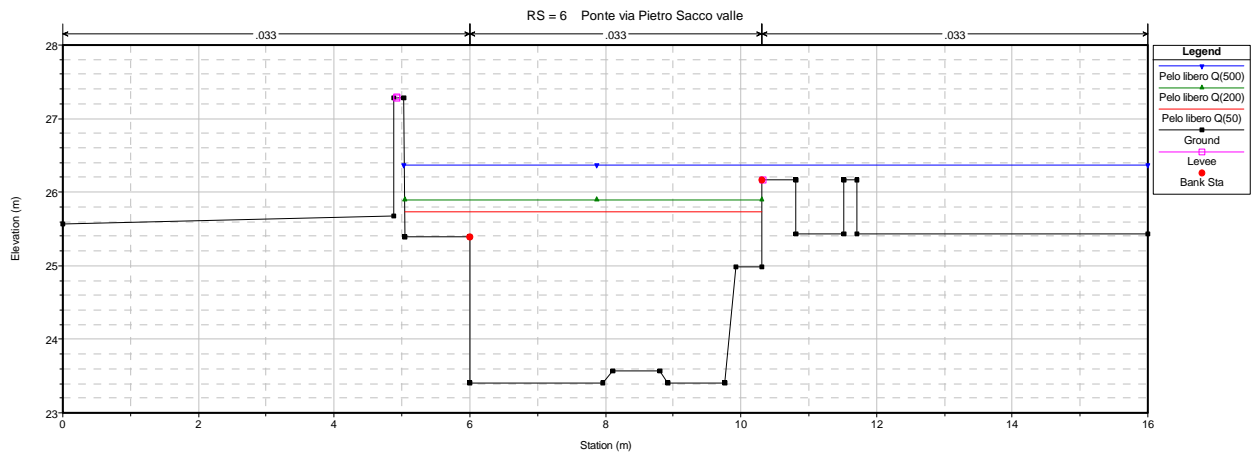
RIO TERRUSO

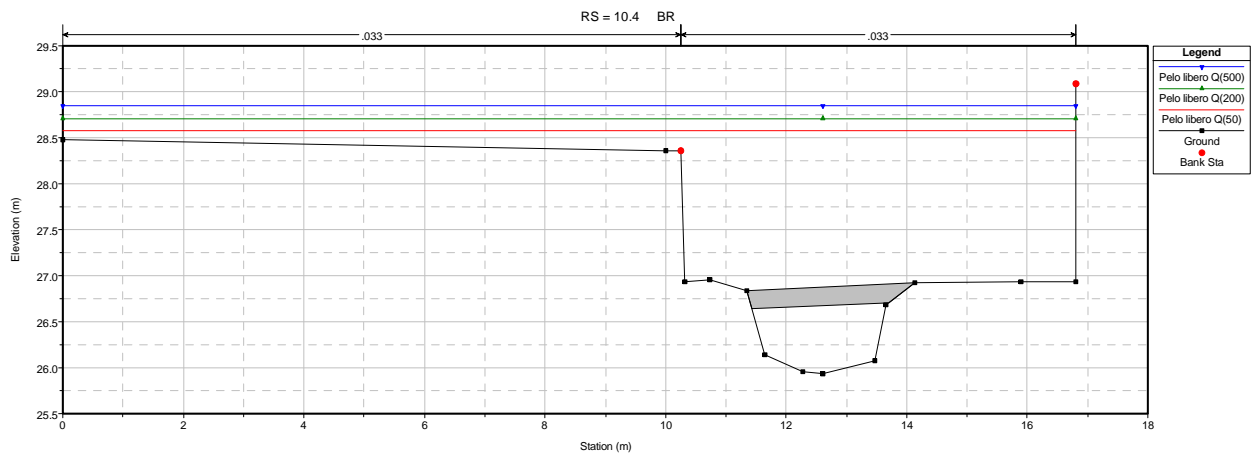
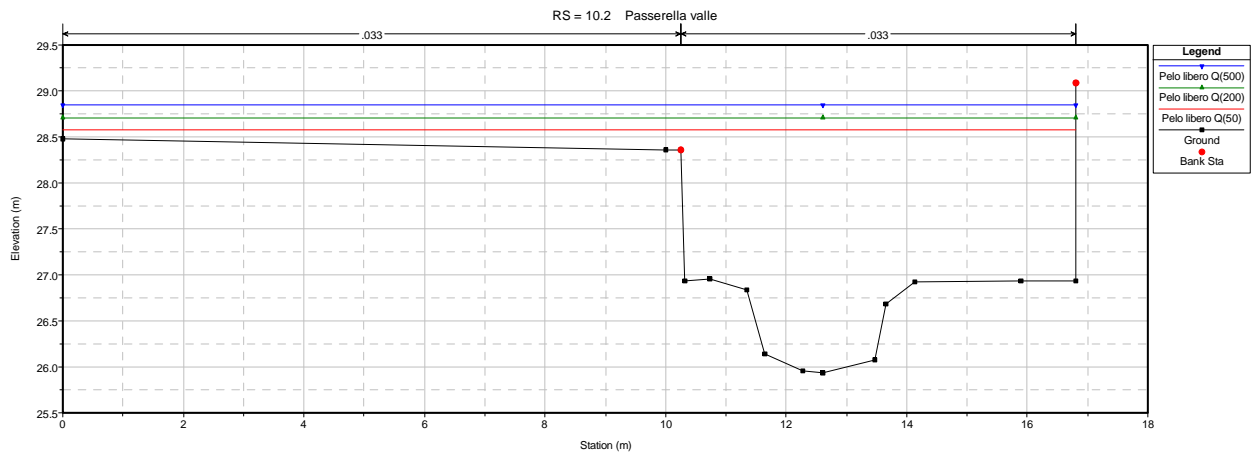
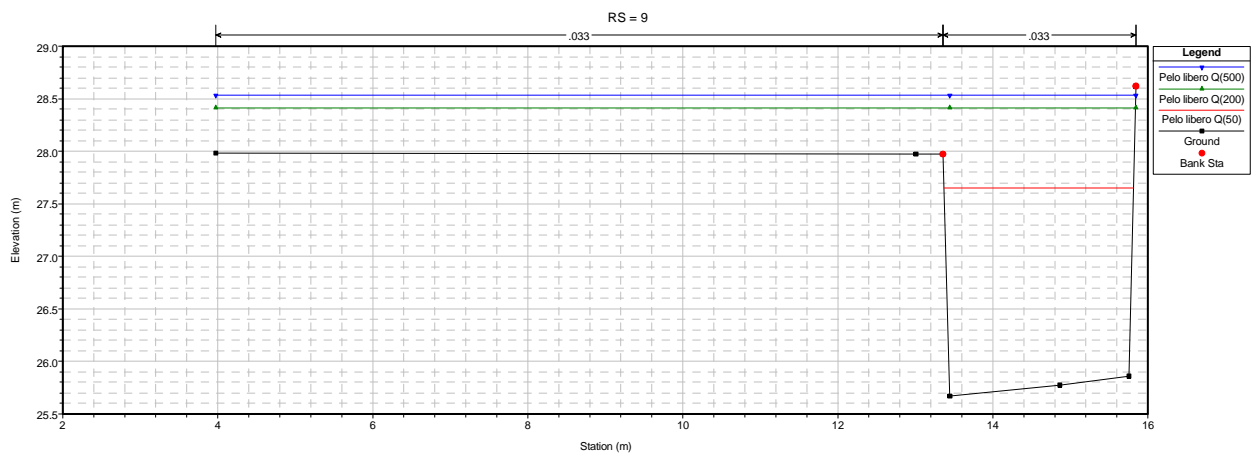
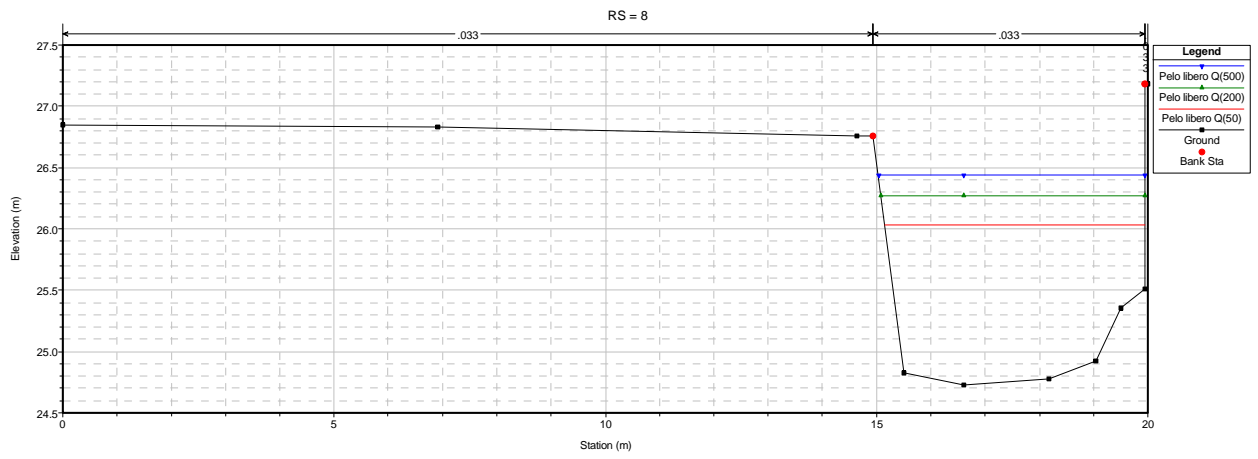
Sezioni trasversali

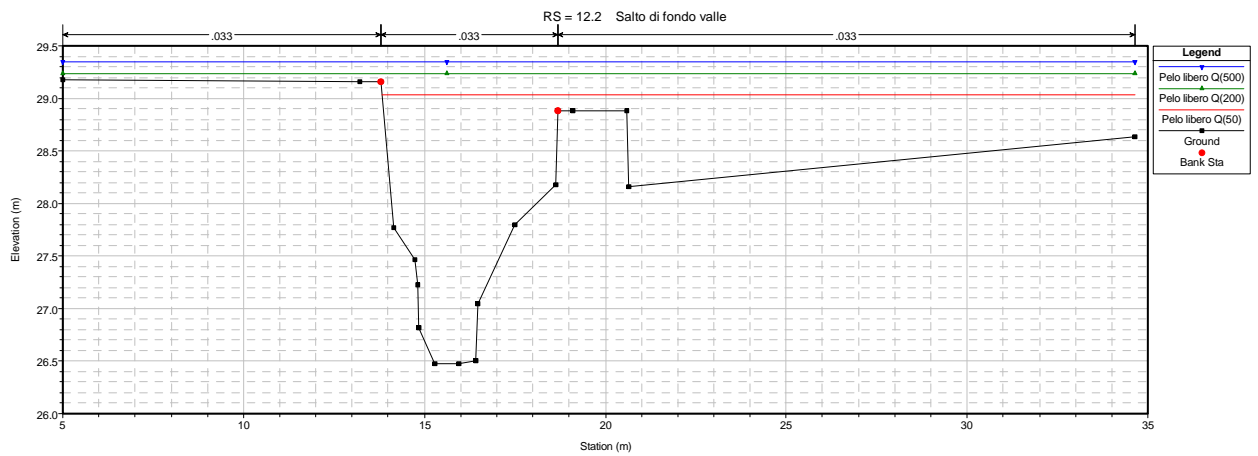
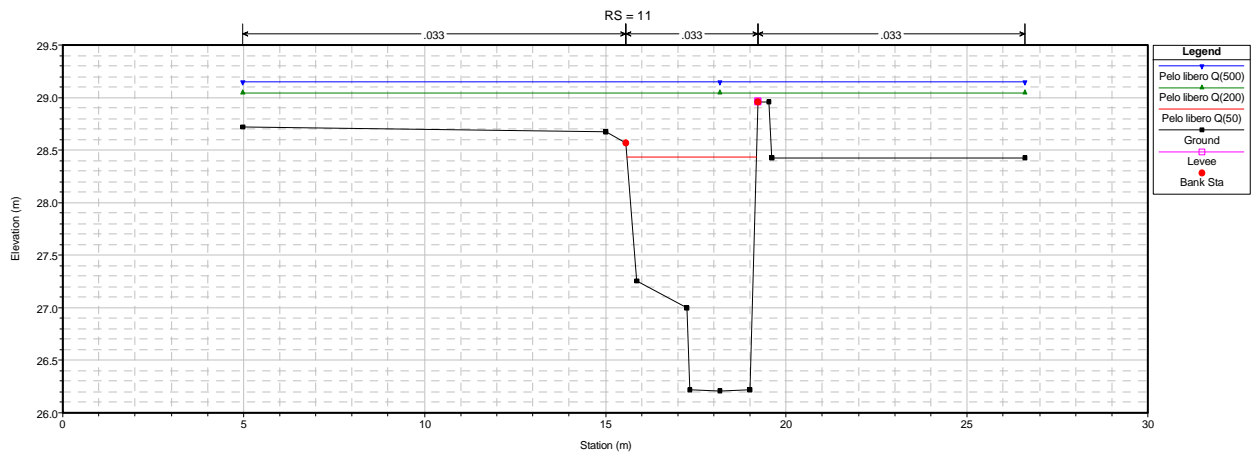
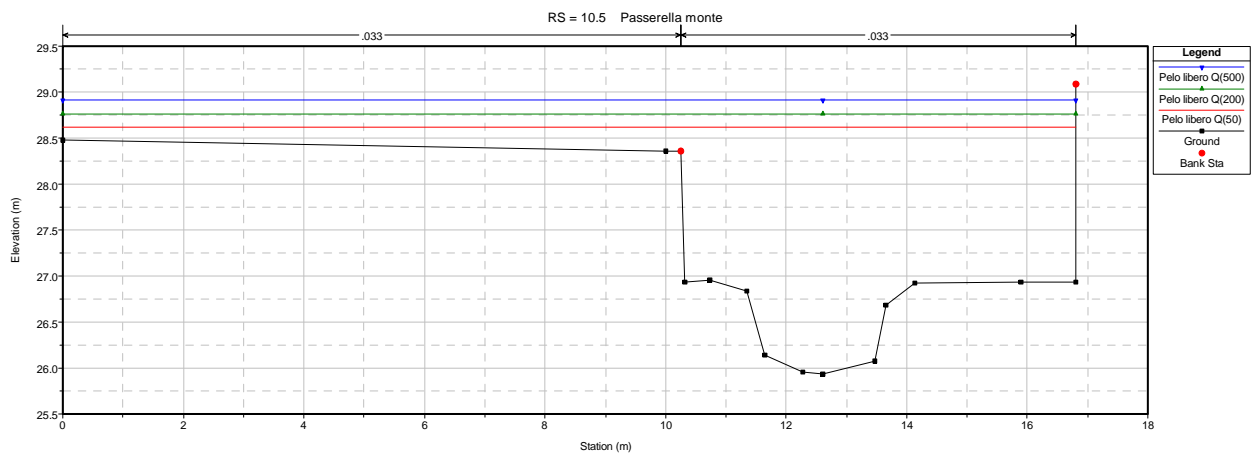
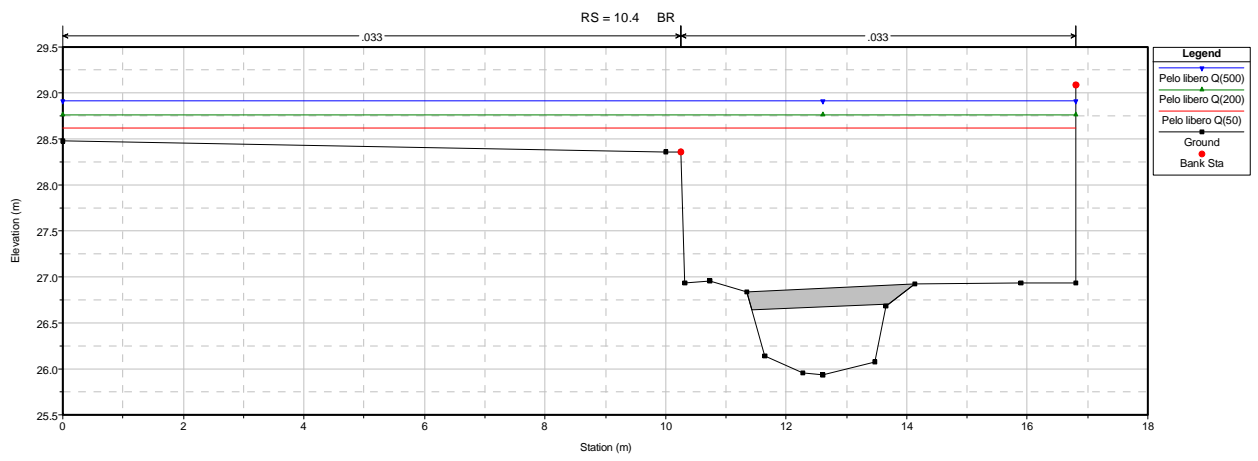


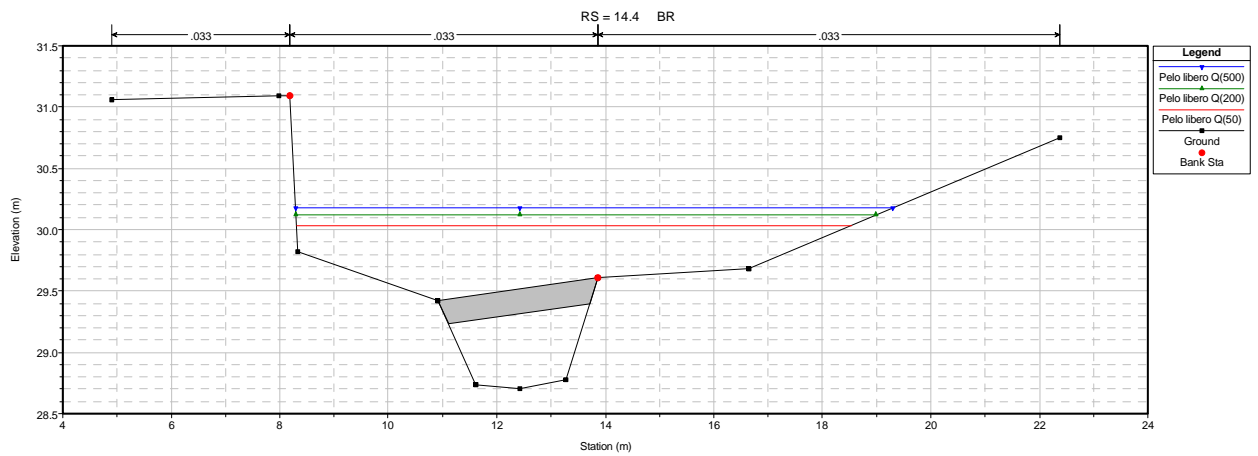
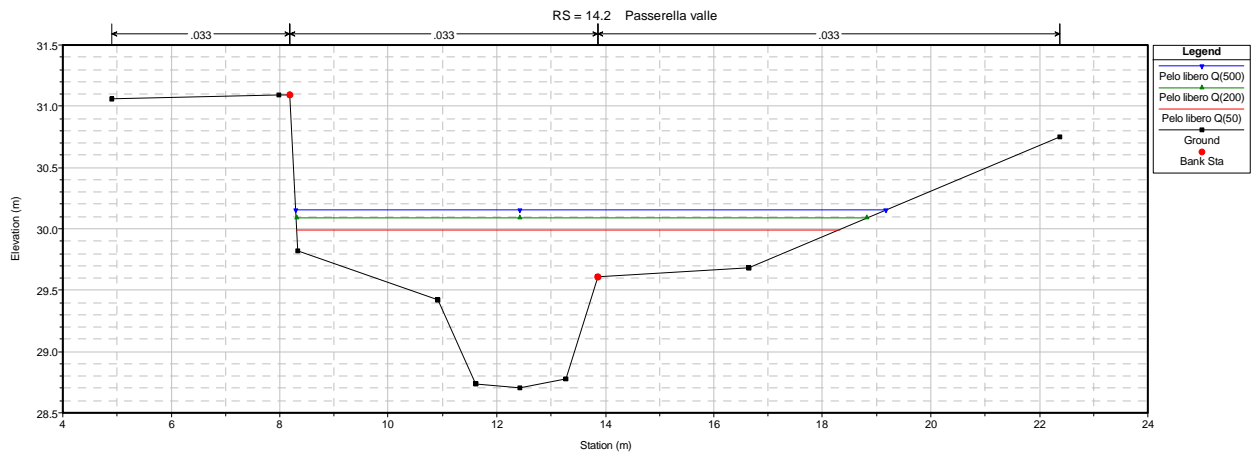
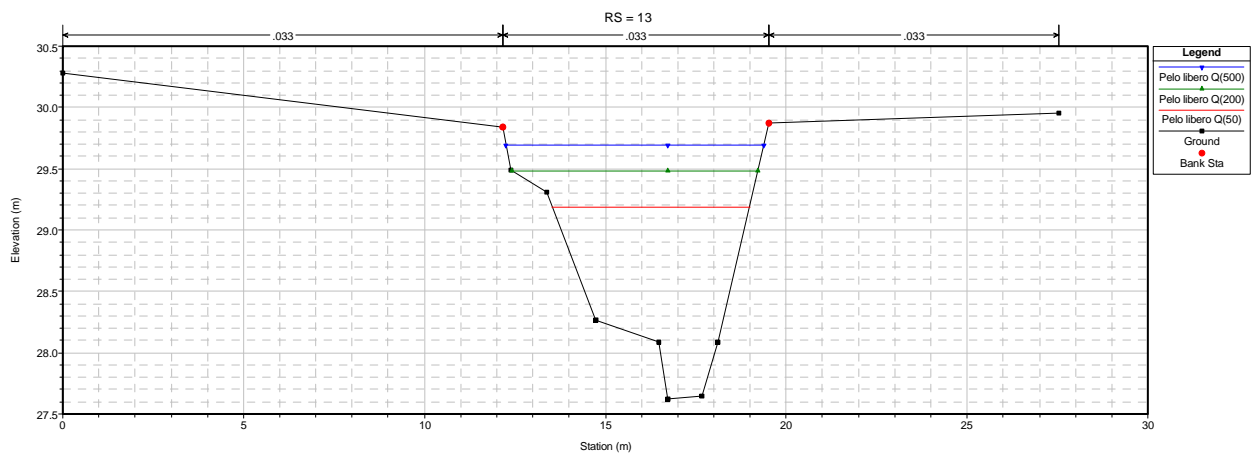
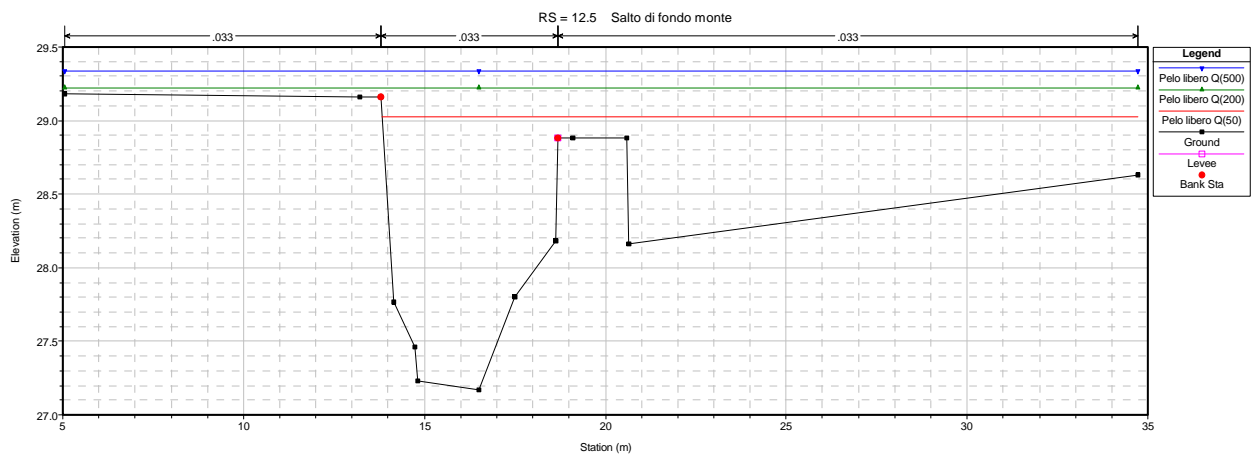


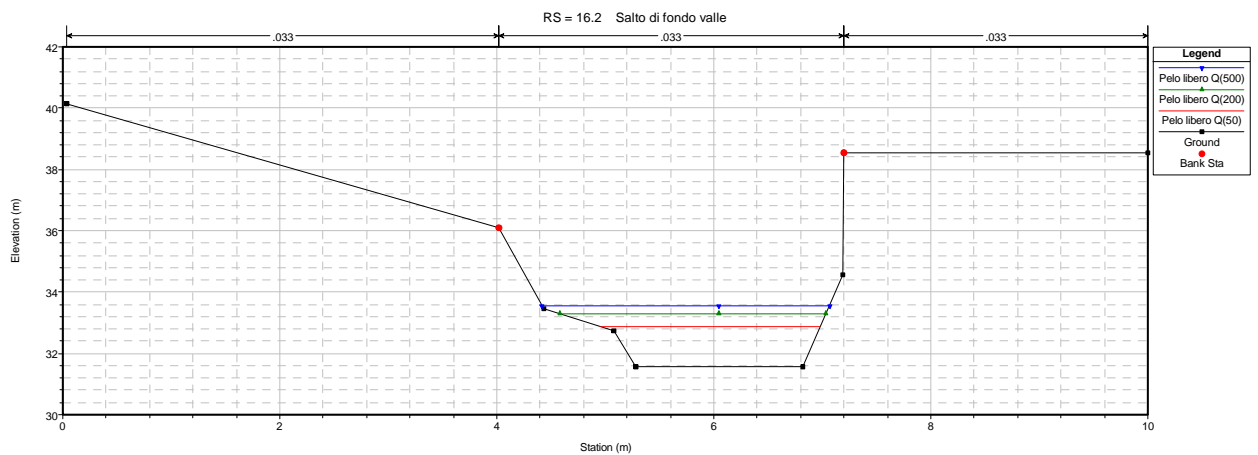
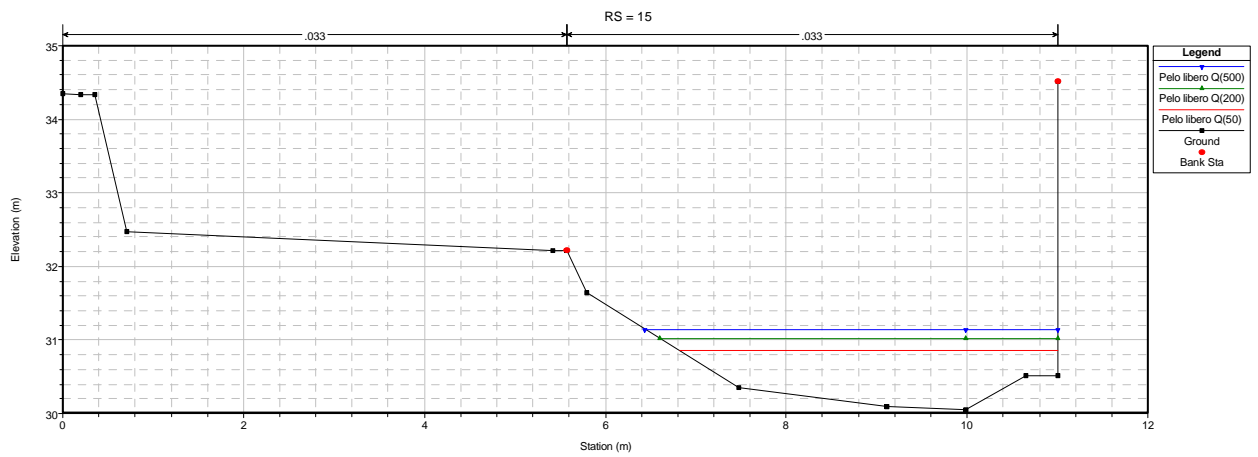
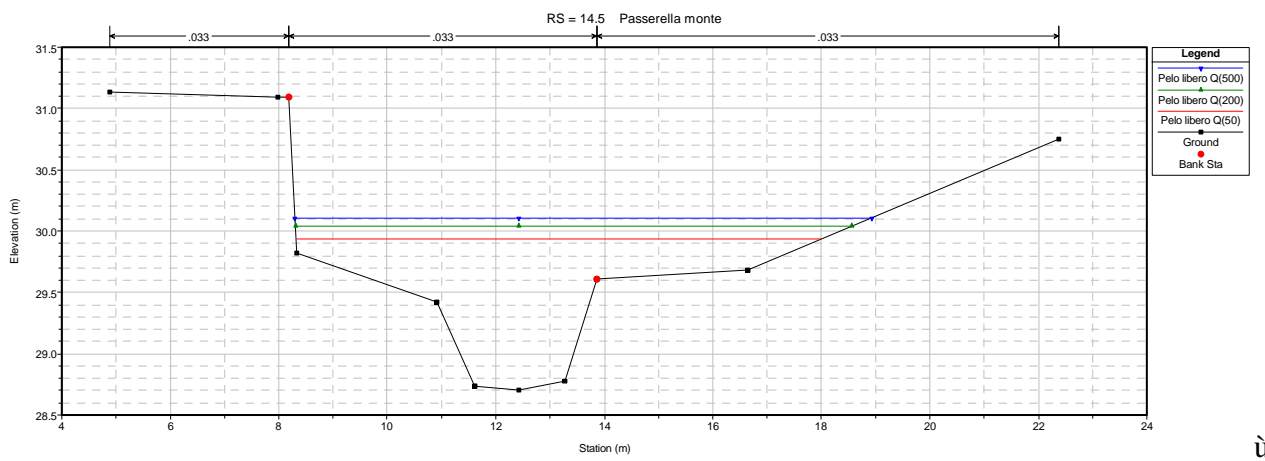
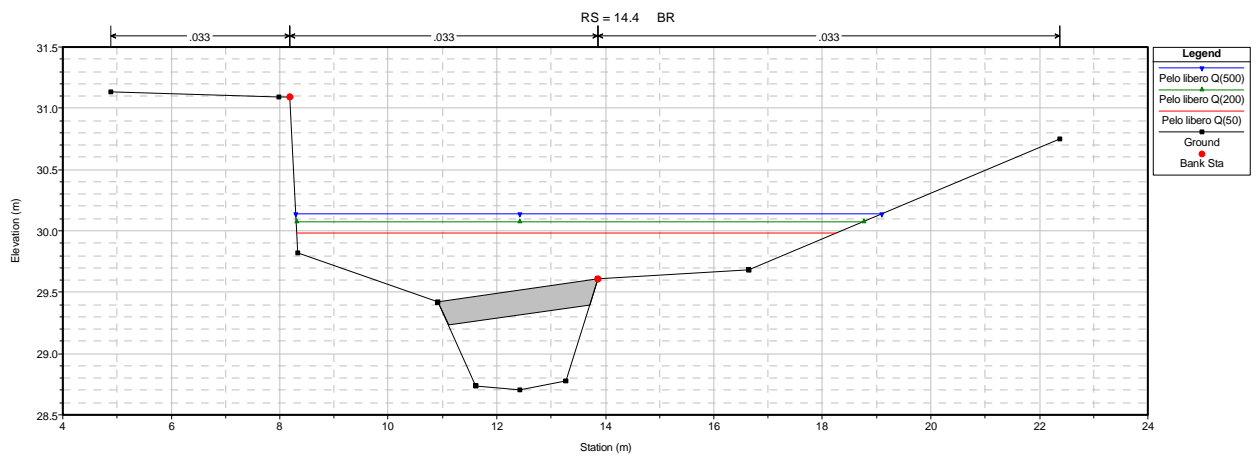






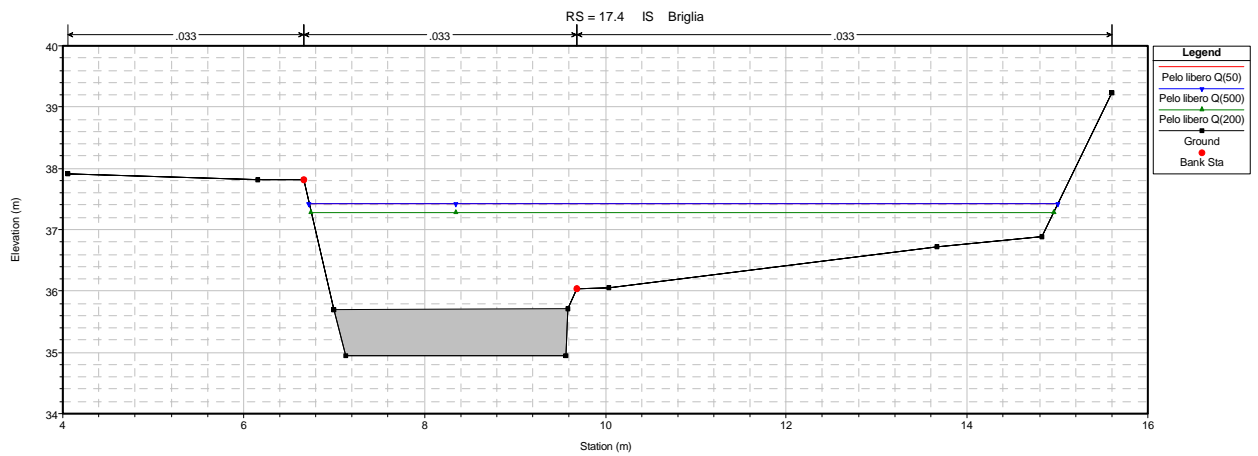
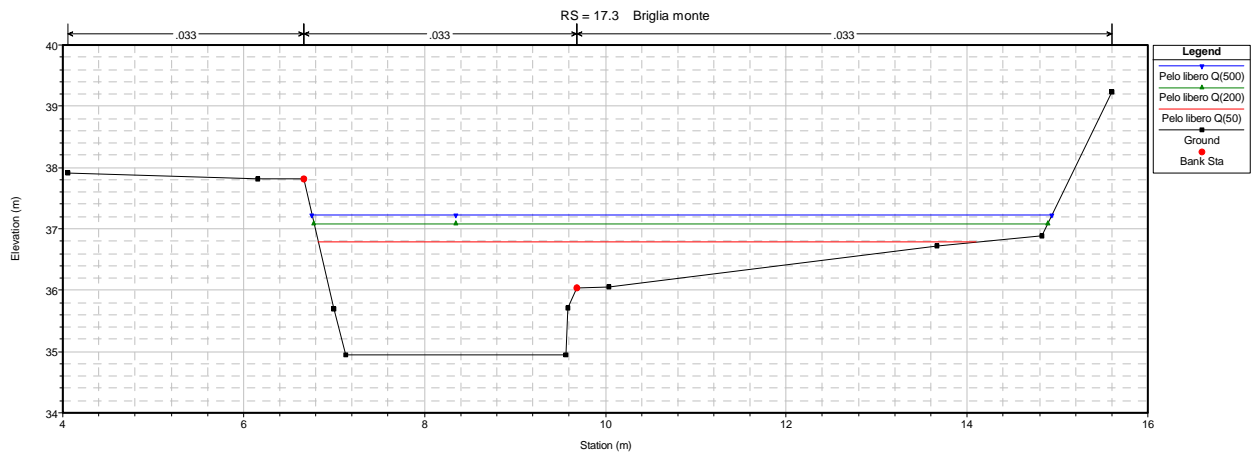
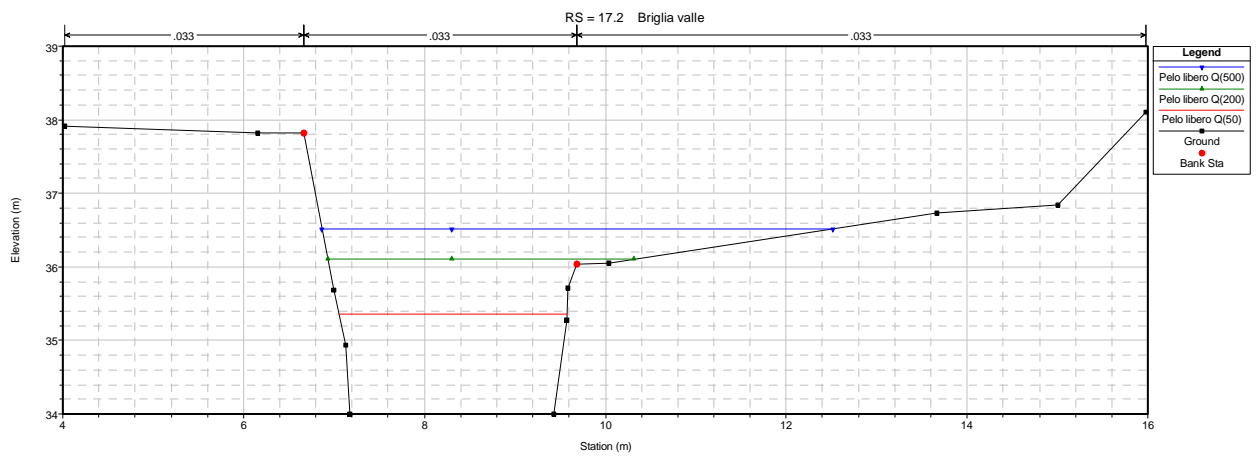
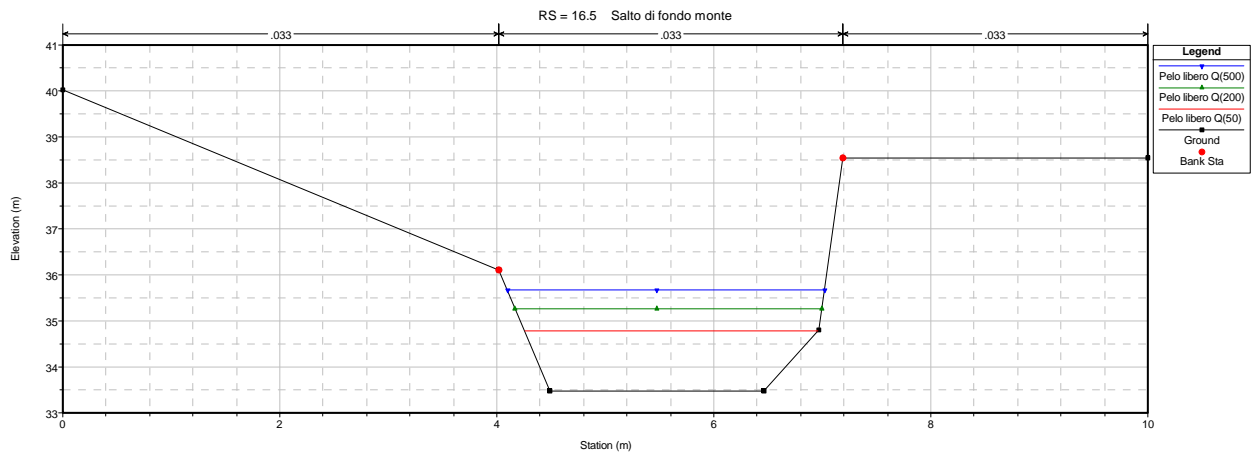


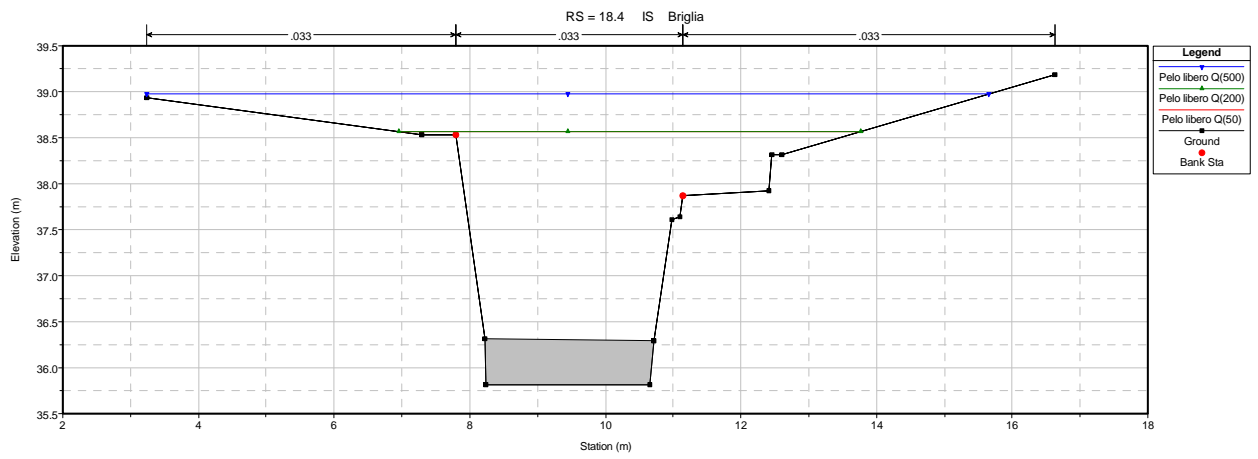
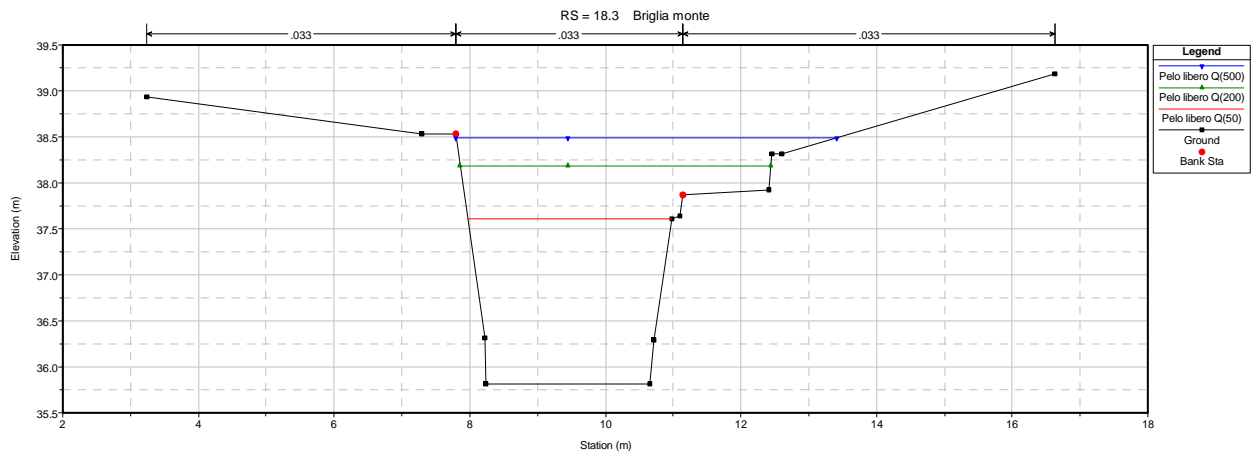
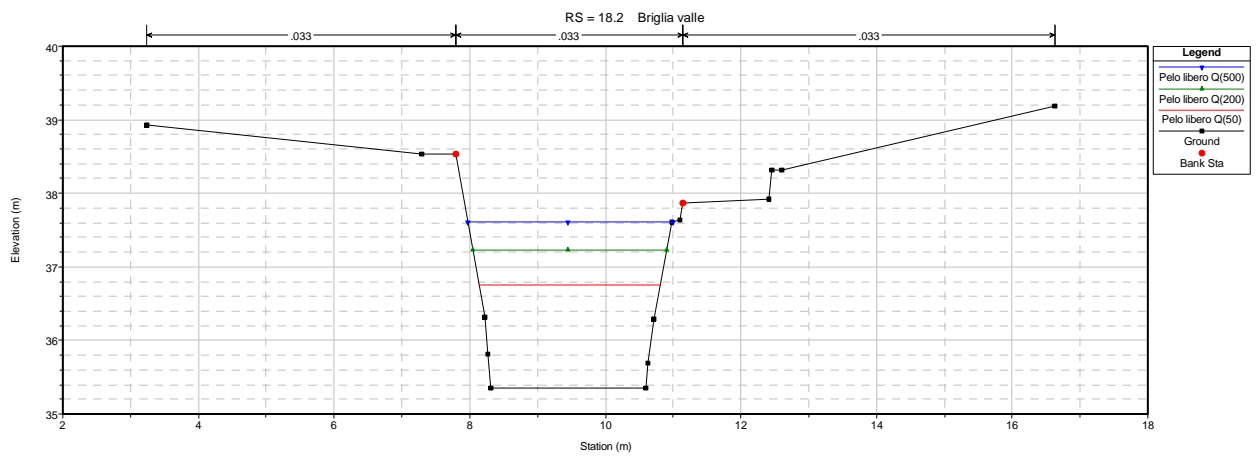
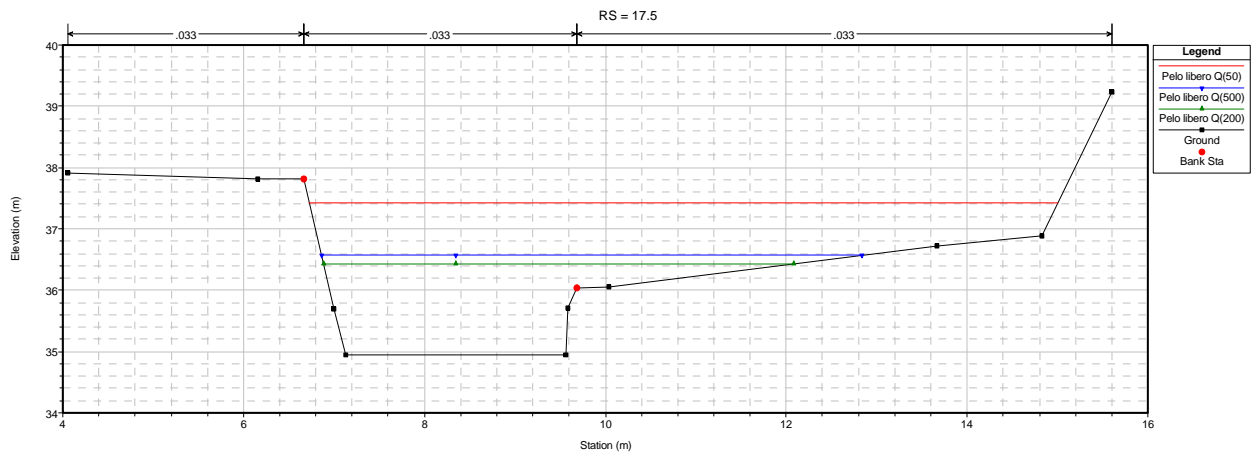




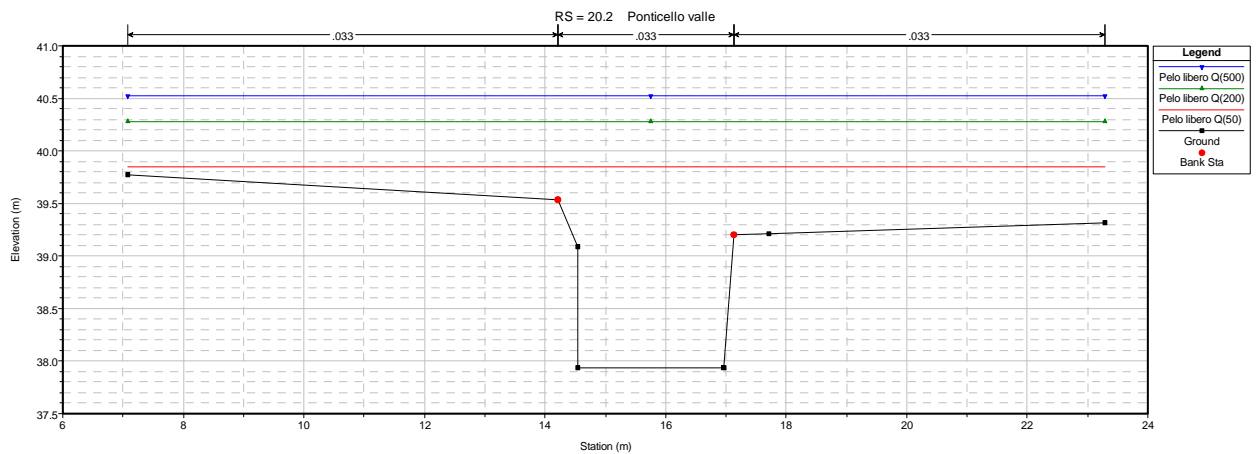
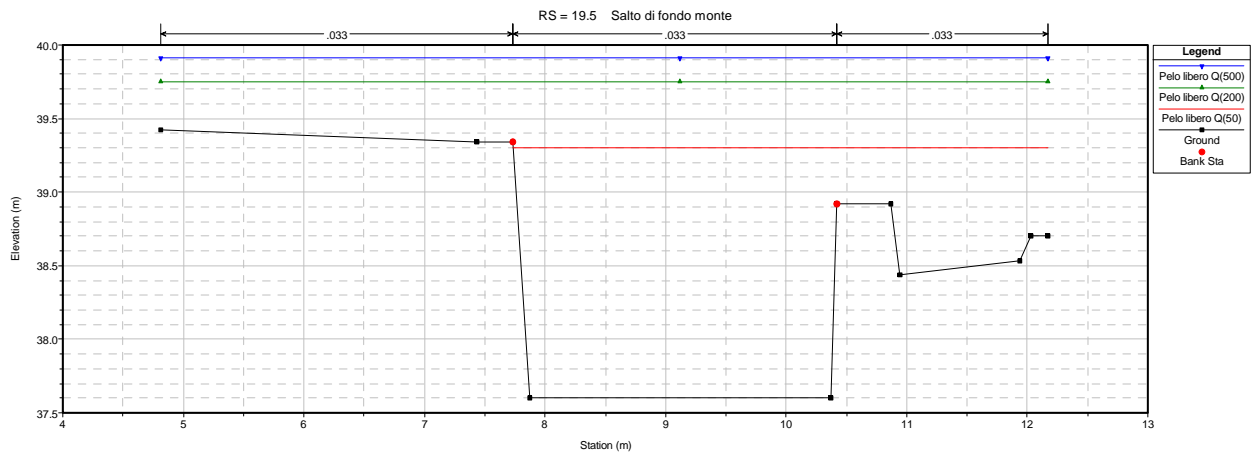
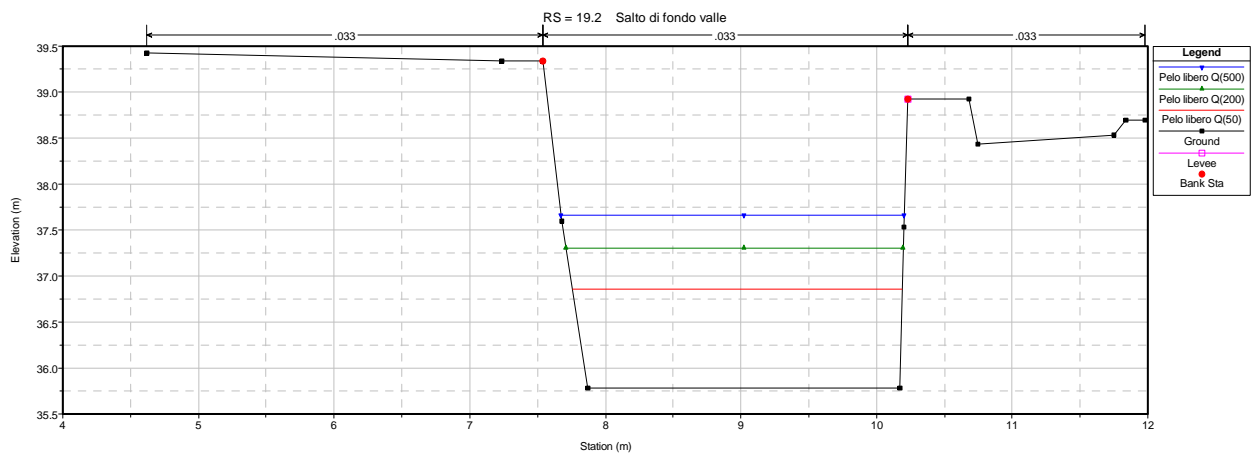
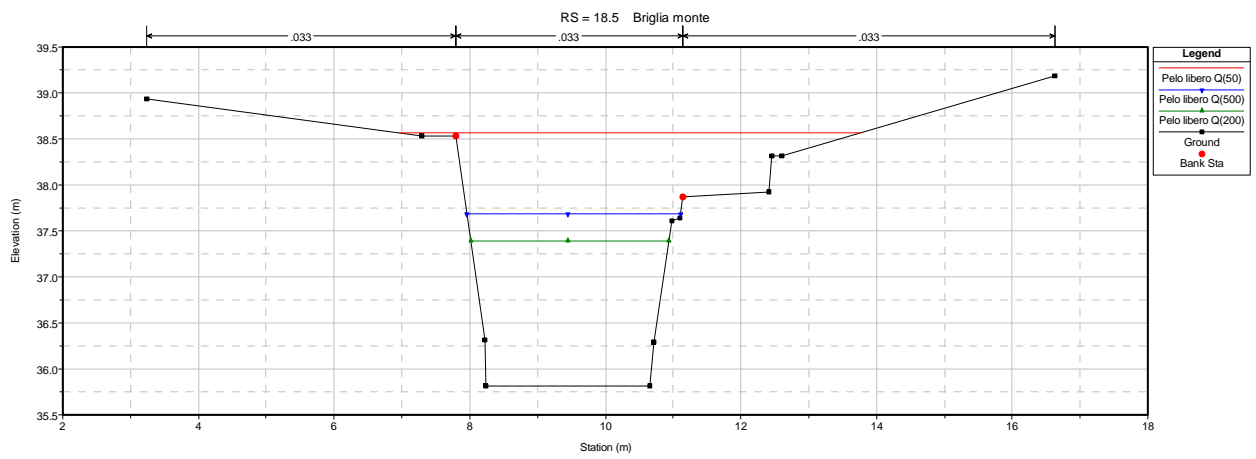
Rio Terruso

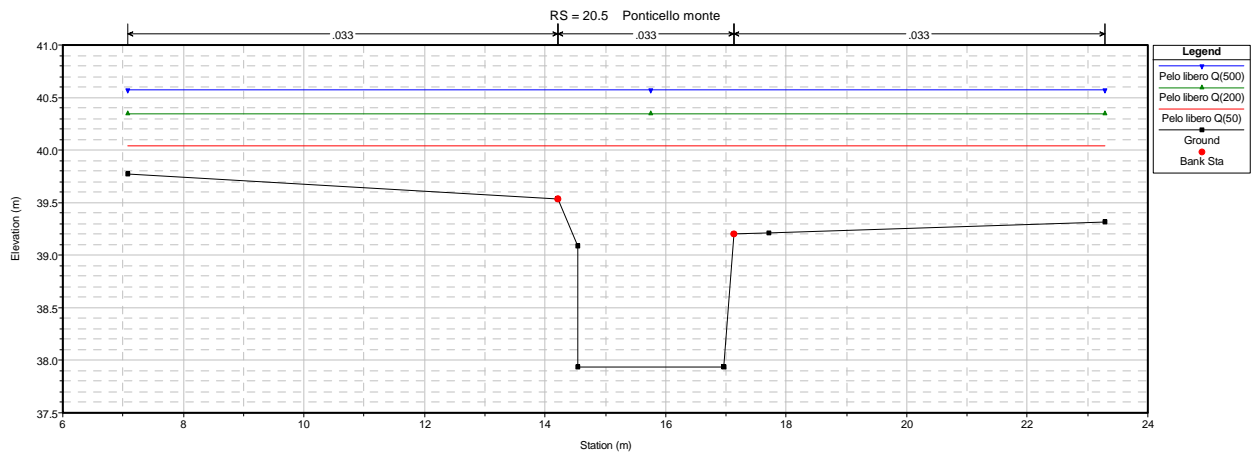
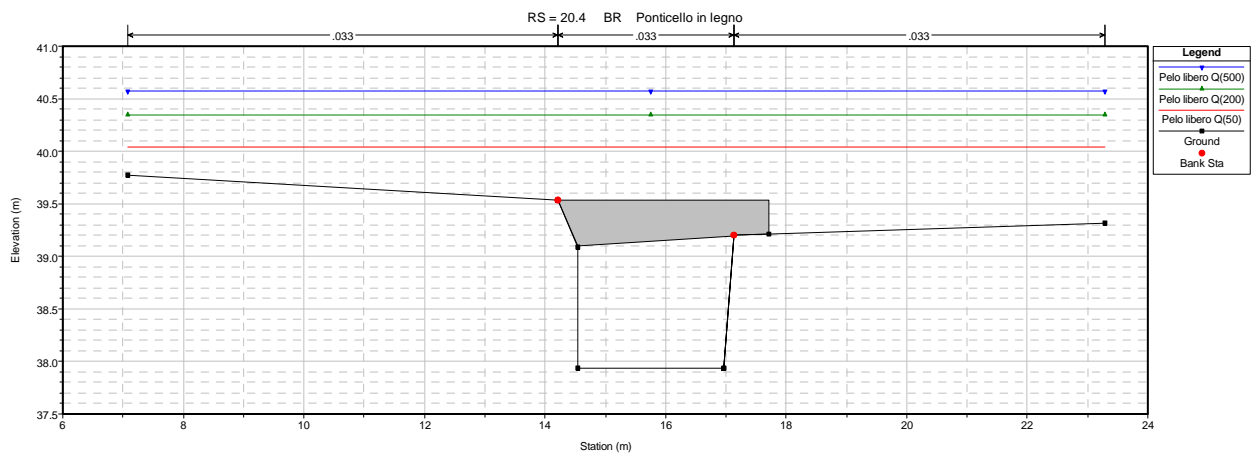
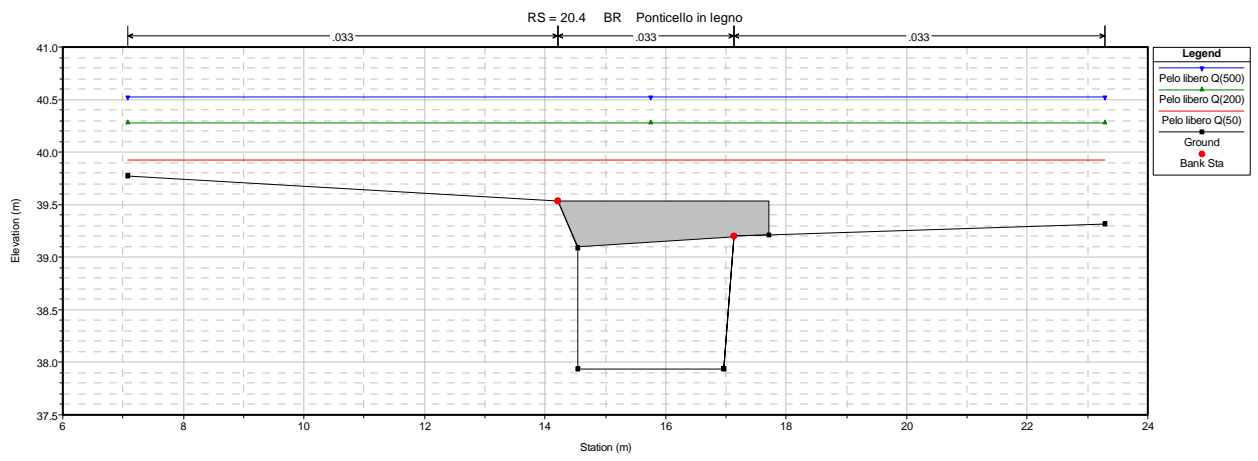
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Rio Terruso





**TABELLE DELLE GRANDEZZE
IDRAULICHE SIGNIFICATIVE**

PER LE PORTATE

T=50. 200. 500 ANNI

RIO TERRUSO

Dalla sez. 1 alla sez. 20.5

Rio Terruso T=50 anni

Sezioni	Portata totale (m ³ /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m)	Velocità (m/s)	Area bagnata (m ²)	N° Froude
20.5	19	37.94	39.54	39.2	40.04	39.79	40.16	1.79	13.09	0.41
20.4	Bridge									
20.2	19	37.94	39.54	39.2	39.85	39.79	40.07	2.35	10.07	0.57
19.5	19	37.6	39.34	38.92	39.3	39.3	39.93	3.67	5.61	0.91
19.2	19	35.78	39.34	38.92	36.85	37.66	39.7	7.48	2.54	2.33
18.5	19	35.81	38.53	37.87	38.56	37.62	38.81	2.26	8.99	0.47
18.4	Inl Struct									
18.3	19	35.81	38.53	37.87	37.61	37.61	38.4	3.94	4.82	1
18.2	19	35.36	38.53	37.87	36.76	37.22	38.33	5.55	3.42	1.57
17.5	19	34.94	37.82	36.04	37.43	36.79	37.57	1.72	11.83	0.36
17.4	Inl Struct									
17.3	19	34.94	37.82	36.04	36.79	36.79	37.26	3.24	6.61	0.79
17.2	19	34	37.82	36.04	35.36	35.9	37.13	5.9	3.22	1.66
16.5	19	33.47	36.11	38.55	34.79	35.38	36.72	6.16	3.08	1.84
16.2	19	31.58	36.11	38.55	32.87	33.85	36.54	8.49	2.24	2.58
15	19	30.05	32.21	34.51	30.85	31.57	34.12	8	2.37	3.39
14.5	19	28.7	31.09	29.61	29.93	30.21	30.83	4.38	4.79	1.68
14.4	Bridge									
14.2	19	28.7	31.09	29.61	29.99	30.21	30.69	3.9	5.41	1.44
13	19	27.62	29.84	29.87	29.19	29.34	29.88	3.67	5.17	1.2
12.5	19	27.17	29.16	28.88	29.03	28.74	29.11	1.46	16.17	0.39
12.2	19	26.48	29.16	28.88	29.03	28.65	29.1	1.33	17.41	0.33
11	19	26.21	28.57	28.96	28.43	28.17	28.95	3.18	5.98	0.78
10.5	19	25.94	28.36	29.09	28.62	27.58	28.71	1.4	14.98	0.32
10.4	Bridge									
10.2	19	25.94	28.36	29.09	28.58	27.58	28.68	1.45	14.31	0.33
9	19	25.67	27.97	28.62	27.65	27.65	28.56	4.24	4.48	1
8	19	24.73	26.76	27.18	26.03	26.1	26.69	3.59	5.3	1.09
7	19	23.54	26.68	26.26	26.08	25.05	26.26	1.9	10.02	0.42
6.5	Bridge									
6	19	23.41	25.39	26.16	25.73	24.81	25.94	2.06	9.45	0.45
5	19	23.39	25.94	26.34	25.26	25.04	25.75	3.11	6.12	0.8
4	19	22.85	25.23	24.73	24.5	24.5	25.14	3.55	5.36	1
3.5	19	22.19	23.9	24.03	23.2	23.49	24.17	4.36	4.35	1.63
3.2	19	20.09	23.9	24.03	20.77	21.45	23.92	7.86	2.42	3.44
2	19	19.98	23.78	23.78	22.33	21.17	22.45	1.59	11.97	0.34
1.9	Bridge									
1.8	19	19.98	23.78	23.78	22.31	21.17	22.44	1.6	11.91	0.34
1.7	19	19.98	23.78	23.78	22.31	21.17	22.44	1.6	11.91	0.34
1.6	Bridge									
1.5	19	19.98	23.78	23.78	22.3	21.17	22.43	1.6	11.84	0.34
1.2	19	19.71	21.19	20.85	22.38	21.36	22.4	0.68	34.87	0.14
1	19	19.71	21.19	20.85	22.38	21.36	22.4	0.68	34.84	0.15

Rio Terruso T=200 anni

Sezioni	Portata totale (m ³ /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m)	Velocità (m/s)	Area bagnata (m ²)	N° Froude
20.5	27	37.94	39.54	39.2	40.34	39.95	40.47	1.76	18.03	0.38
20.4	Bridge									
20.2	27	37.94	39.54	39.2	40.27	39.95	40.42	1.9	16.89	0.41
19.5	27	37.6	39.34	38.92	39.75	39.75	40.31	3.6	8.65	0.8
19.2	27	35.78	39.34	38.92	37.31	38.14	40.09	7.39	3.66	1.94
18.5	27	35.81	38.53	37.87	37.4	38.18	39.52	6.46	4.18	1.73
18.4	Inl Struct									
18.3	27	35.81	38.53	37.87	38.18	38.18	38.97	3.96	7.03	0.89
18.2	27	35.36	38.53	37.87	37.23	37.71	38.88	5.69	4.74	1.41
17.5	27	34.94	37.82	36.04	36.43	37.08	38.51	6.54	4.43	1.77
17.4	Inl Struct									
17.3	27	34.94	37.82	36.04	37.08	37.08	37.58	3.37	8.97	0.76
17.2	27	34	37.82	36.04	36.1	36.66	37.49	5.22	5.19	1.22
16.5	27	33.47	36.11	38.55	35.27	35.82	37.17	6.11	4.42	1.56
16.2	27	31.58	36.11	38.55	33.28	34.32	36.98	8.52	3.17	2.39
15	27	30.05	32.21	34.51	31.02	31.87	34.91	8.74	3.09	3.33
14.5	27	28.7	31.09	29.61	30.04	30.4	31.24	5.13	5.86	1.83
14.4	Bridge									
14.2	27	28.7	31.09	29.61	30.09	30.4	31.1	4.73	6.37	1.64
13	27	27.62	29.84	29.87	29.48	29.64	30.26	3.89	6.94	1.23
12.5	27	27.17	29.16	28.88	29.22	28.88	29.32	1.57	20.75	0.39
12.2	27	26.48	29.16	28.88	29.23	28.8	29.31	1.46	22.05	0.34
11	27	26.21	28.57	28.96	29.04	28.57	29.22	2.13	16.23	0.45
10.5	27	25.94	28.36	29.09	28.76	27.83	28.91	1.76	17.43	0.39
10.4	Bridge									
10.2	27	25.94	28.36	29.09	28.7	27.83	28.87	1.85	16.45	0.41
9	27	25.67	27.97	28.62	28.41	28.41	28.8	3.04	10.5	0.61
8	27	24.73	26.76	27.18	26.27	26.41	27.16	4.17	6.47	1.16
7	27	23.54	26.68	26.26	26.3	25.43	26.5	2.09	14.07	0.44
6.5	Bridge									
6	27	23.41	25.39	26.16	25.9	25.2	26.26	2.68	10.33	0.57
5	27	23.39	25.94	26.34	25.98	25.39	26.04	1.05	25.1	0.22
4	27	22.85	25.23	24.73	25.08	25.08	25.53	3.09	9.9	0.74
3.5	27	22.19	23.9	24.03	23.38	23.76	24.65	4.99	5.41	1.67
3.2	27	20.09	23.9	24.03	23.94	21.77	24.04	1.42	19.15	0.26
2	27	19.98	23.78	23.78	23.96	21.46	24.02	1.19	27.74	0.2
1.9	Bridge									
1.8	27	19.98	23.78	23.78	23.86	21.46	23.94	1.27	24.22	0.21
1.7	27	19.98	23.78	23.78	23.86	21.46	23.94	1.27	24.22	0.21
1.6	Bridge									
1.5	27	19.98	23.78	23.78	23.79	21.46	23.88	1.32	22.43	0.22
1.2	27	19.71	21.19	20.85	23.85	21.52	23.86	0.46	70.15	0.08
1	27	19.71	21.19	20.85	23.85	21.52	23.86	0.46	70.14	0.08

Rio Terruso T=500 anni

Sezioni	Portata totale (m ³ /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m)	Velocità (m/s)	Area bagnata (m ²)	N° Froude
20.5	33	37.94	39.54	39.2	40.58	40.05	40.7	1.73	21.78	0.35
20.4	Bridge									
20.2	33	37.94	39.54	39.2	40.53	40.05	40.66	1.81	20.96	0.37
19.5	33	37.6	39.34	38.92	39.91	39.91	40.55	3.86	9.89	0.82
19.2	33	35.78	39.34	38.92	37.66	38.47	40.34	7.25	4.55	1.72
18.5	33	35.81	38.53	37.87	37.68	38.49	39.86	6.54	5.05	1.65
18.4	Inl Struct									
18.3	33	35.81	38.53	37.87	38.49	38.49	39.31	4.09	8.53	0.86
18.2	33	35.36	38.53	37.87	37.62	38.17	39.23	5.62	5.87	1.29
17.5	33	34.94	37.82	36.04	36.57	37.22	38.85	6.95	5.22	1.8
17.4	Inl Struct									
17.3	33	34.94	37.82	36.04	37.22	37.22	37.79	3.59	10.11	0.79
17.2	33	34	37.82	36.04	36.51	36.98	37.73	4.98	7.06	1.06
16.5	33	33.47	36.11	38.55	35.67	36.13	37.46	5.93	5.57	1.37
16.2	33	31.58	36.11	38.55	33.56	34.63	37.26	8.53	3.87	2.25
15	33	30.05	32.21	34.51	31.15	32.08	35.32	9.05	3.65	3.23
14.5	33	28.7	31.09	29.61	30.11	30.54	31.52	5.6	6.59	1.92
14.4	Bridge									
14.2	33	28.7	31.09	29.61	30.15	30.54	31.38	5.24	7.06	1.76
13	33	27.62	29.84	29.87	29.69	29.82	30.48	3.94	8.38	1.16
12.5	33	27.17	29.16	28.88	29.34	28.96	29.44	1.66	24.15	0.4
12.2	33	26.48	29.16	28.88	29.35	28.85	29.44	1.55	25.45	0.35
11	33	26.21	28.57	28.96	29.15	29	29.34	2.24	18.55	0.47
10.5	33	25.94	28.36	29.09	28.92	28	29.08	1.89	20.02	0.4
10.4	Bridge									
10.2	33	25.94	28.36	29.09	28.85	28	29.03	2	18.88	0.43
9	33	25.67	27.97	28.62	28.53	28.53	28.96	3.22	11.87	0.63
8	33	24.73	26.76	27.18	26.44	26.62	27.49	4.53	7.28	1.19
7	33	23.54	26.68	26.26	26.44	25.68	26.69	2.35	15.28	0.48
6.5	Bridge									
6	33	23.41	25.39	26.16	26.37	25.48	26.58	2.19	17.68	0.42
5	33	23.39	25.94	26.34	26.33	25.64	26.39	1.03	30.13	0.21
4	33	22.85	25.23	24.73	24.99	25.23	25.82	4.15	8.87	1.02
3.5	33	22.19	23.9	24.03	23.52	24.26	24.94	5.29	6.24	1.65
3.2	33	20.09	23.9	24.03	24.09	21.99	24.22	1.62	22.95	0.29
2	33	19.98	23.78	23.78	24.13	21.66	24.2	1.25	34.34	0.2
1.9	Bridge									
1.8	33	19.98	23.78	23.78	24.07	21.66	24.15	1.31	32.28	0.21
1.7	33	19.98	23.78	23.78	24.07	21.66	24.15	1.31	32.28	0.21
1.6	Bridge									
1.5	33	19.98	23.78	23.78	24.05	21.66	24.13	1.34	31.38	0.22
1.2	33	19.71	21.19	20.85	24.1	21.6	24.11	0.52	76.15	0.08
1	33	19.71	21.19	20.85	24.1	21.6	24.11	0.52	76.14	0.08