COMUNE DI MURAVERA

COMMITTENTE

BRUNO CABRAS - ANTONELLA MELIS

VARIANTE AL PAI
ART. 37 - c.3 lettera B

Parte Idraulica

PROGETTISTI INCARICATI

Ing. Alessandro Salis
Via Palomba 53
09128 Cagliari

ORDINE INGEGNERI PROVINCIA CAGLIARI
N. 3349 Dr. Ing. ALESSANDRO SALIS

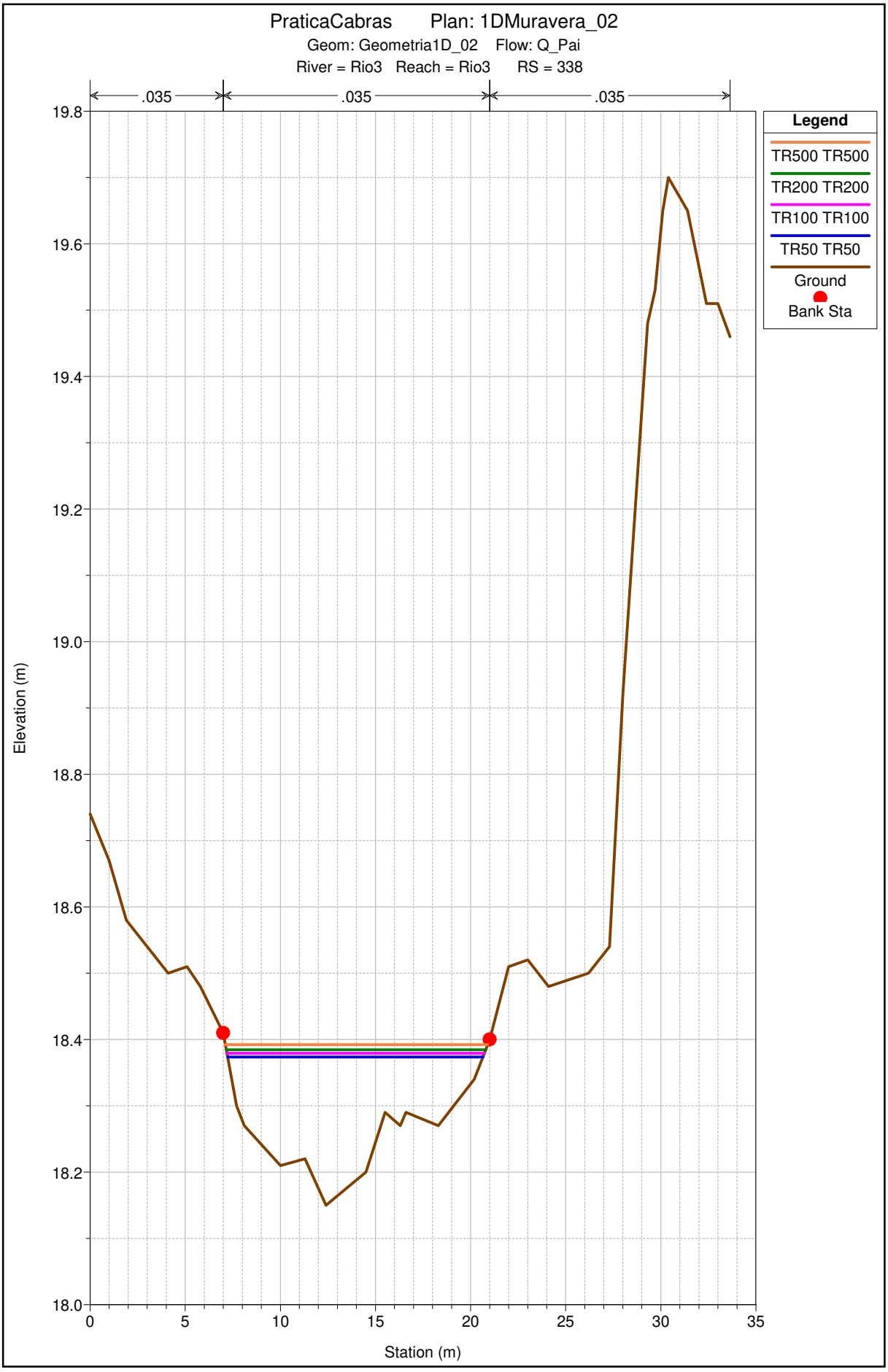
Geol Fausto Alessandro Pani
Via Castelli A, 2,
09122 Cagliari CA

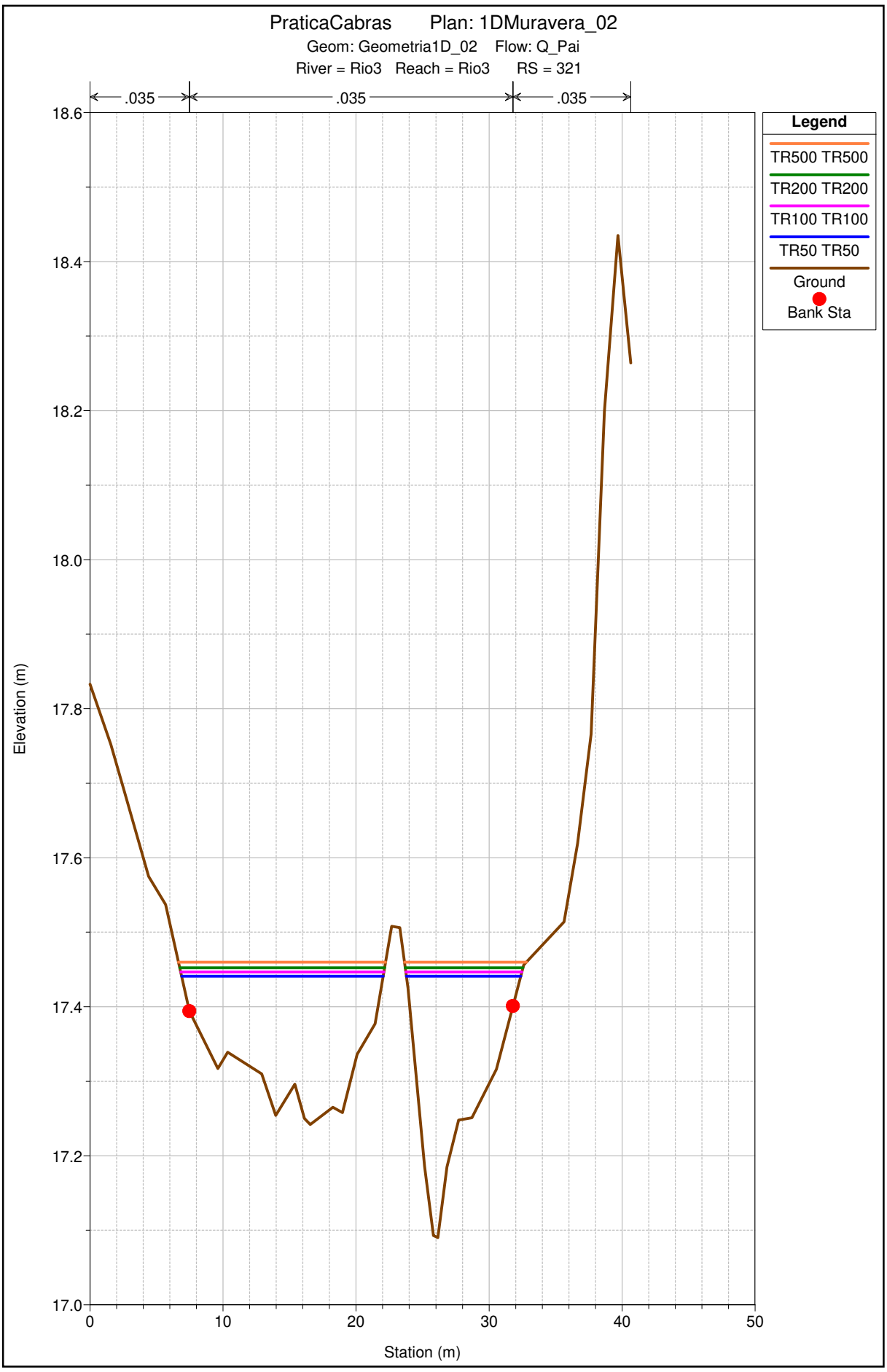
ORDINE DEI GEOLOGI REGIONE SARDEGNA
N. 89 Dott. Geol. FAUSTO ALESSANDRO PANI

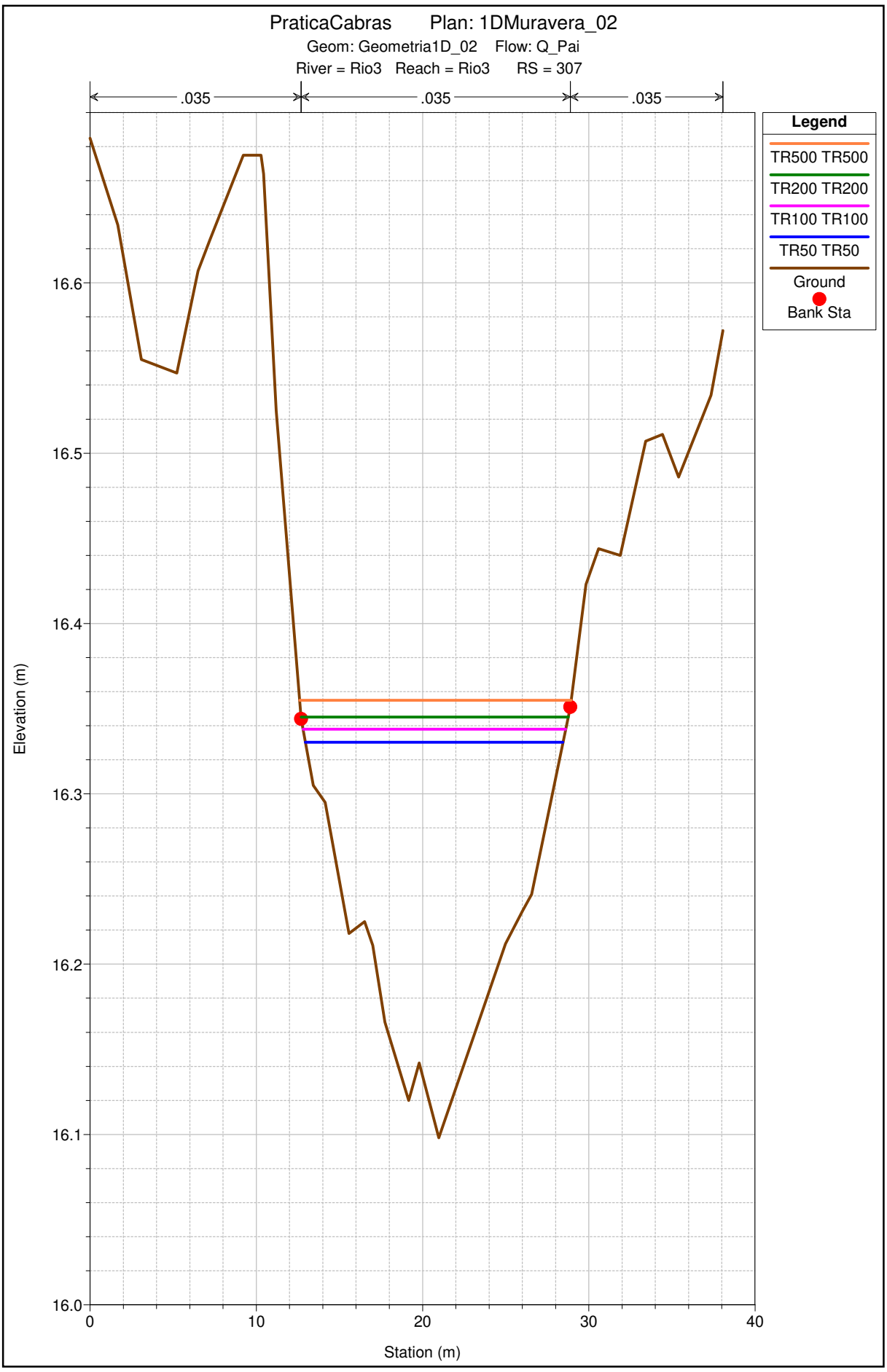
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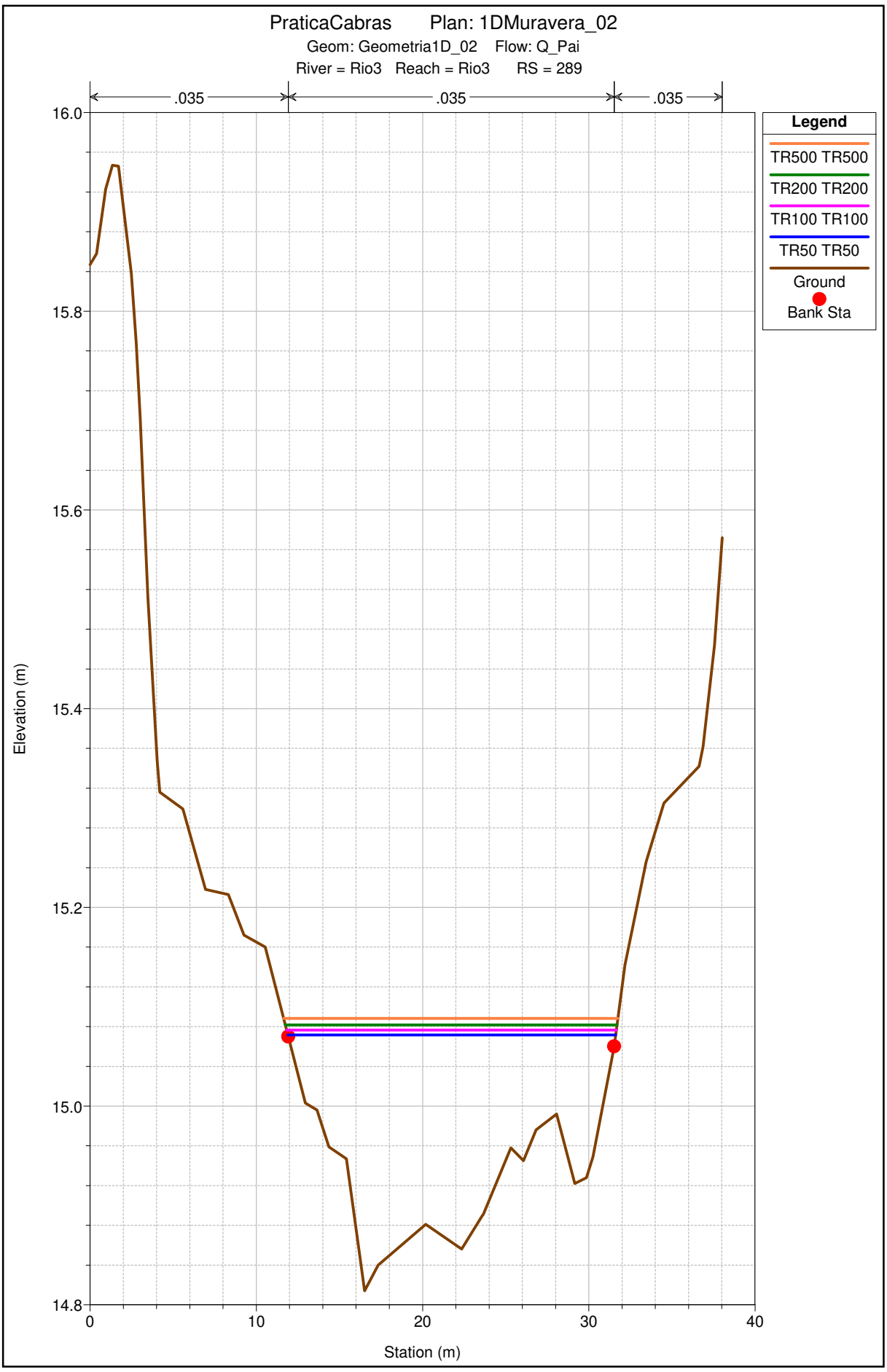
ALLEGATI ALLA RELAZIONE IDRAULICA
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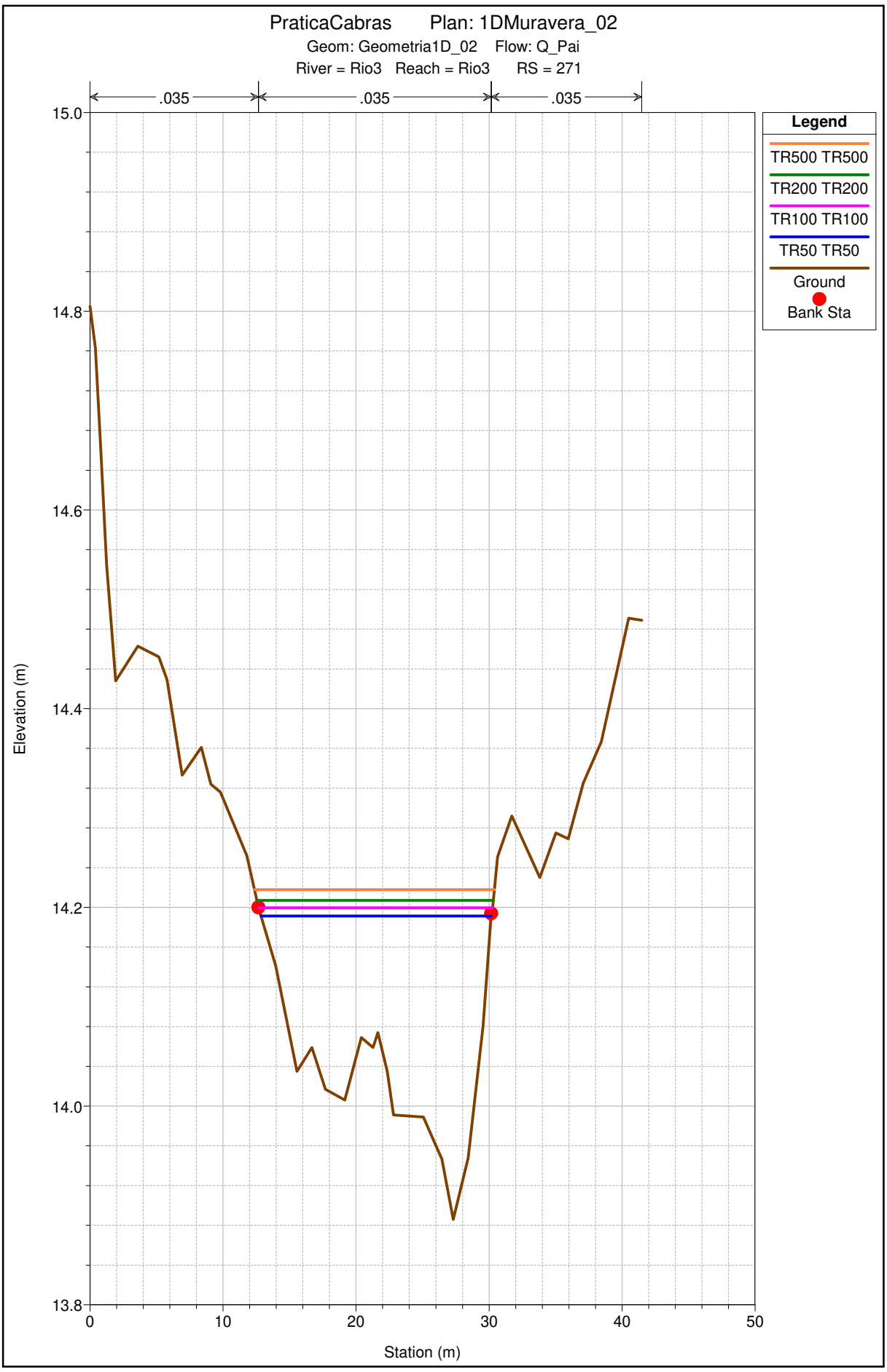
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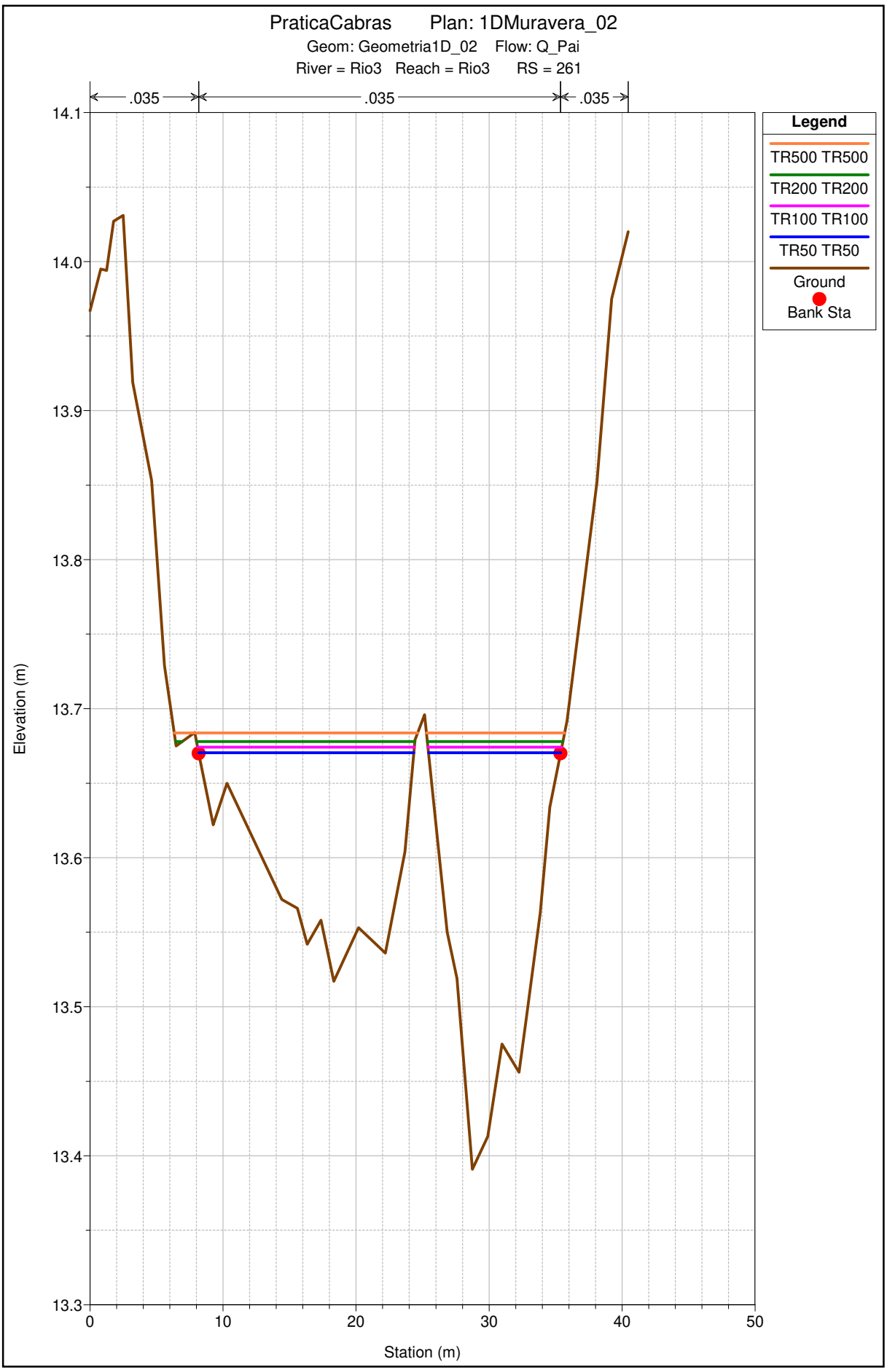

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 338
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
Station (m)
19.8
19.6
19.4
19.2
19.0
18.8
18.6
18.4
18.2
18.0
0
5
10
15
20
25
30
35

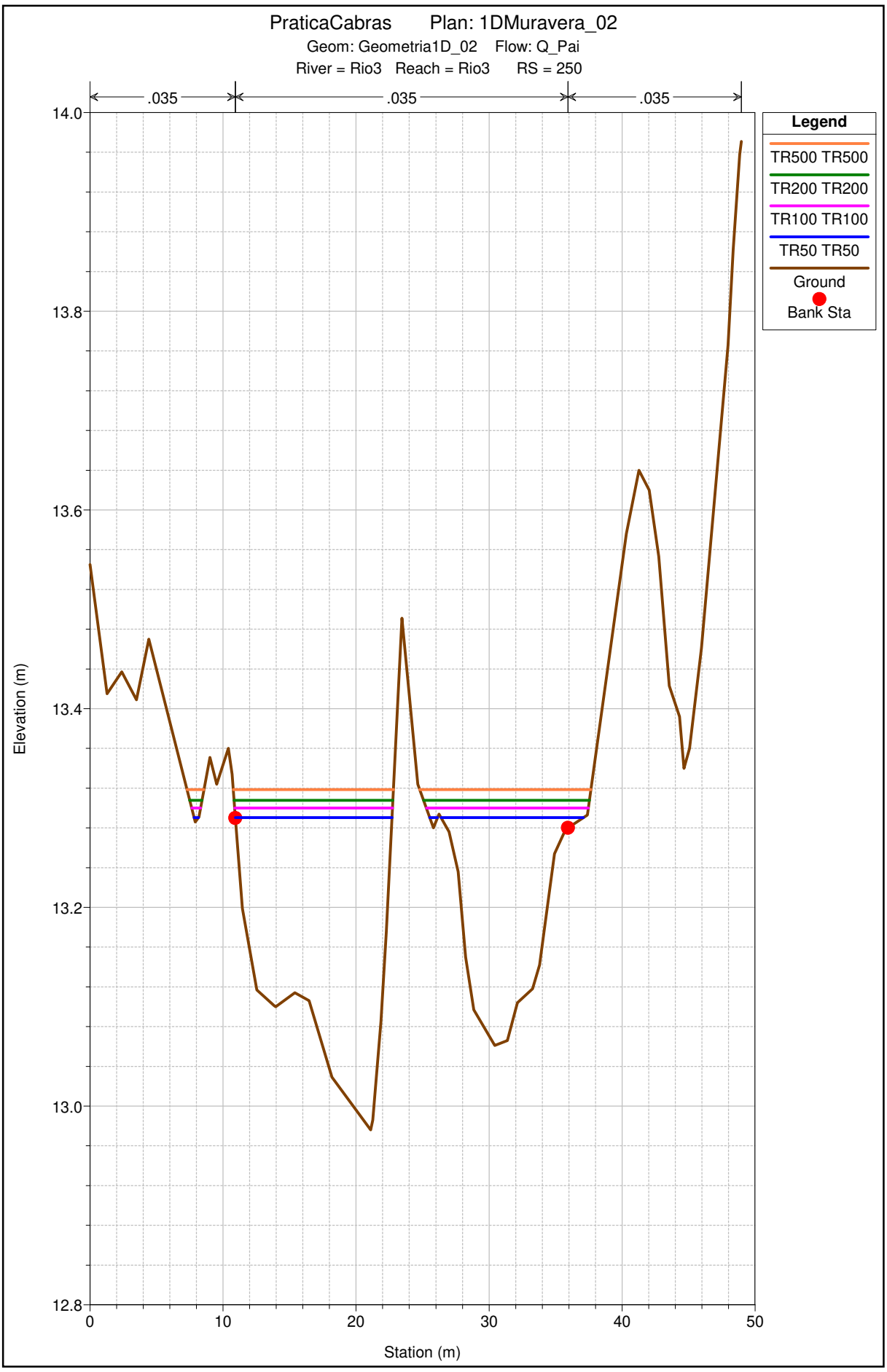

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 321
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
Station (m)
18.6
18.4
18.2
18.0
17.8
17.6
17.4
17.2
17.0
0
10
20
30
40
50

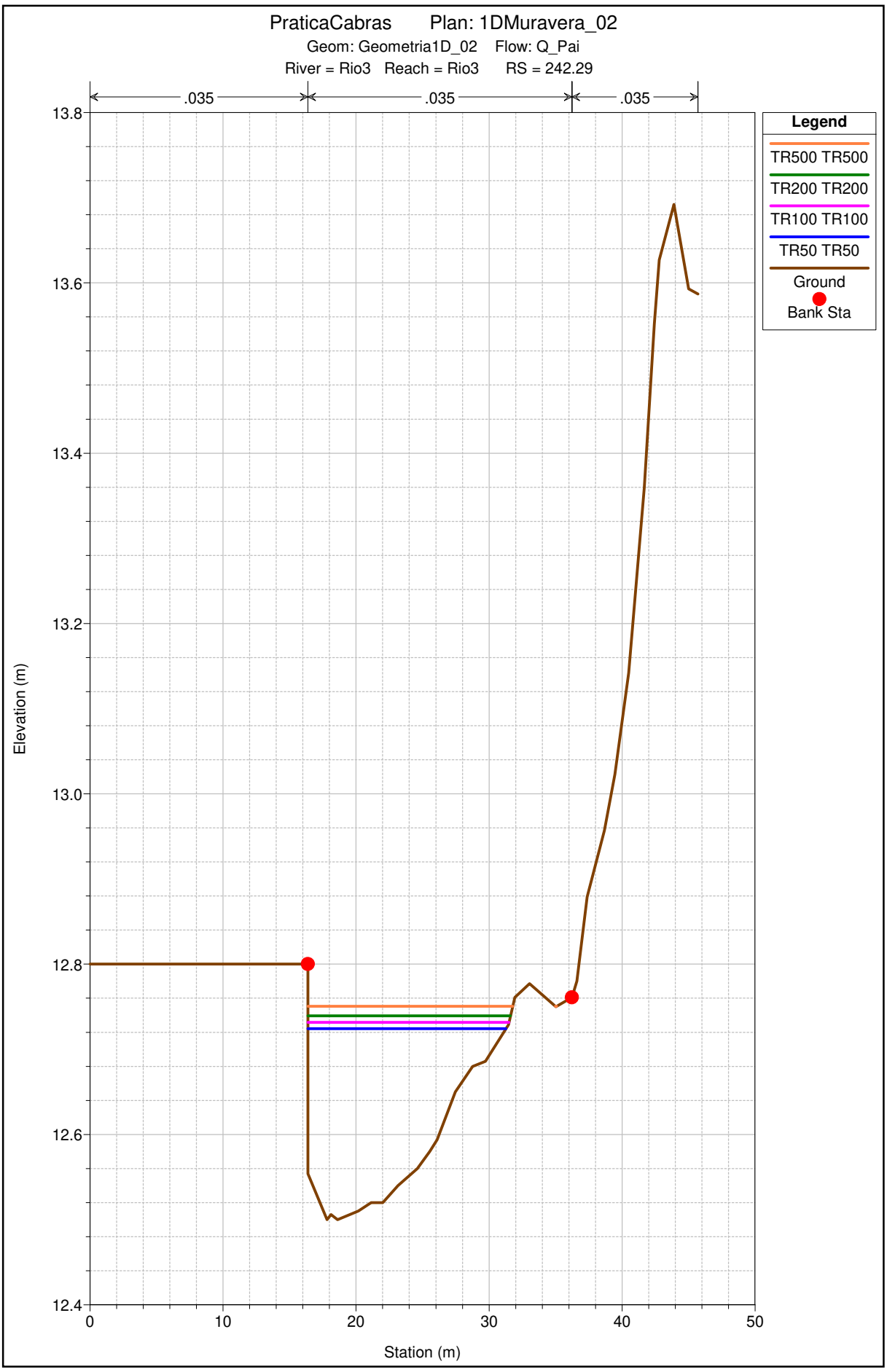

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 307
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
16.6
16.5
16.4
16.3
16.2
16.1
16.0
0
10
20
30
40
Station (m)

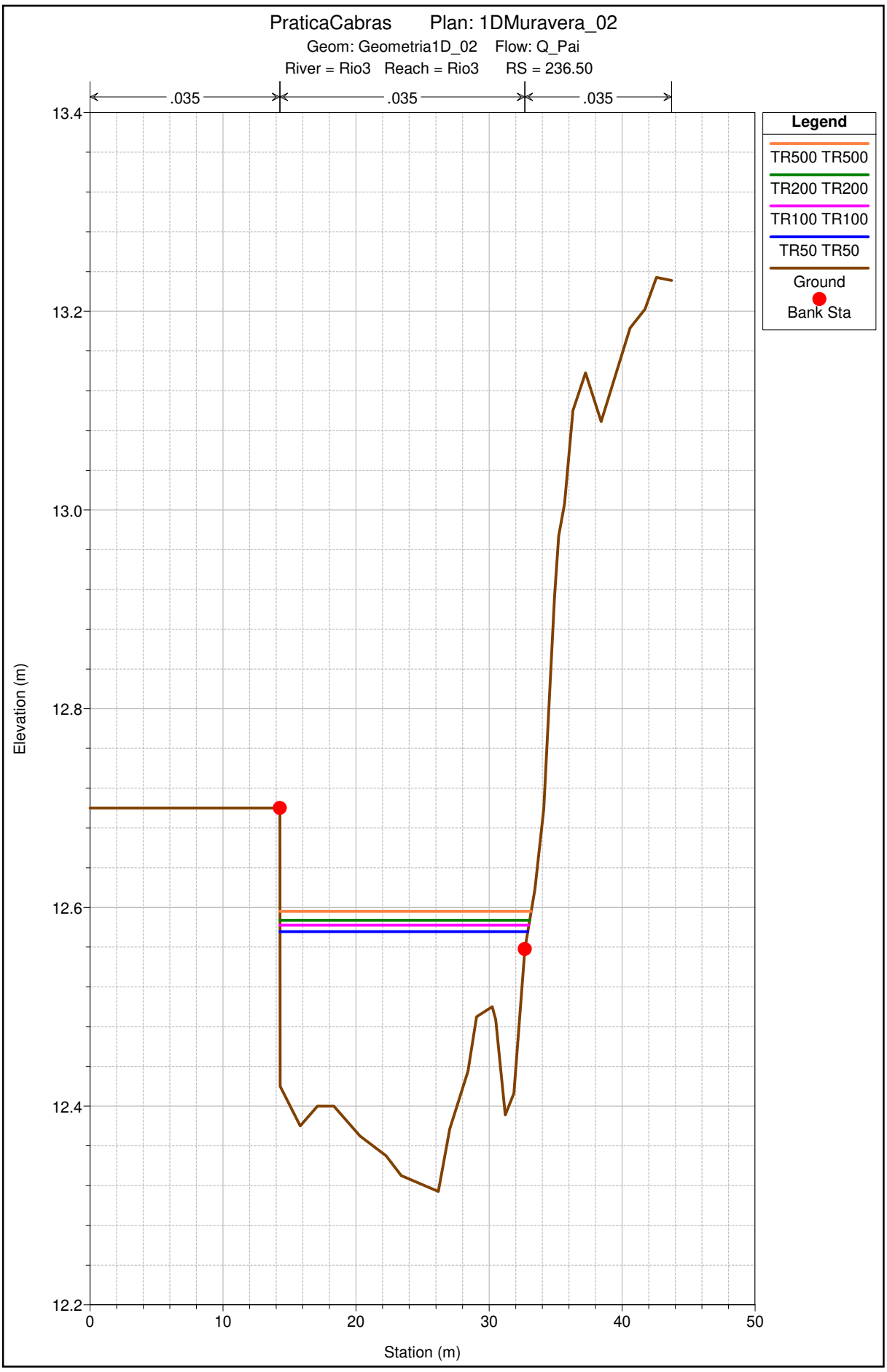

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 289
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
16.0
15.8
15.6
15.4
15.2
15.0
14.8
0
10
20
30
40
Station (m)

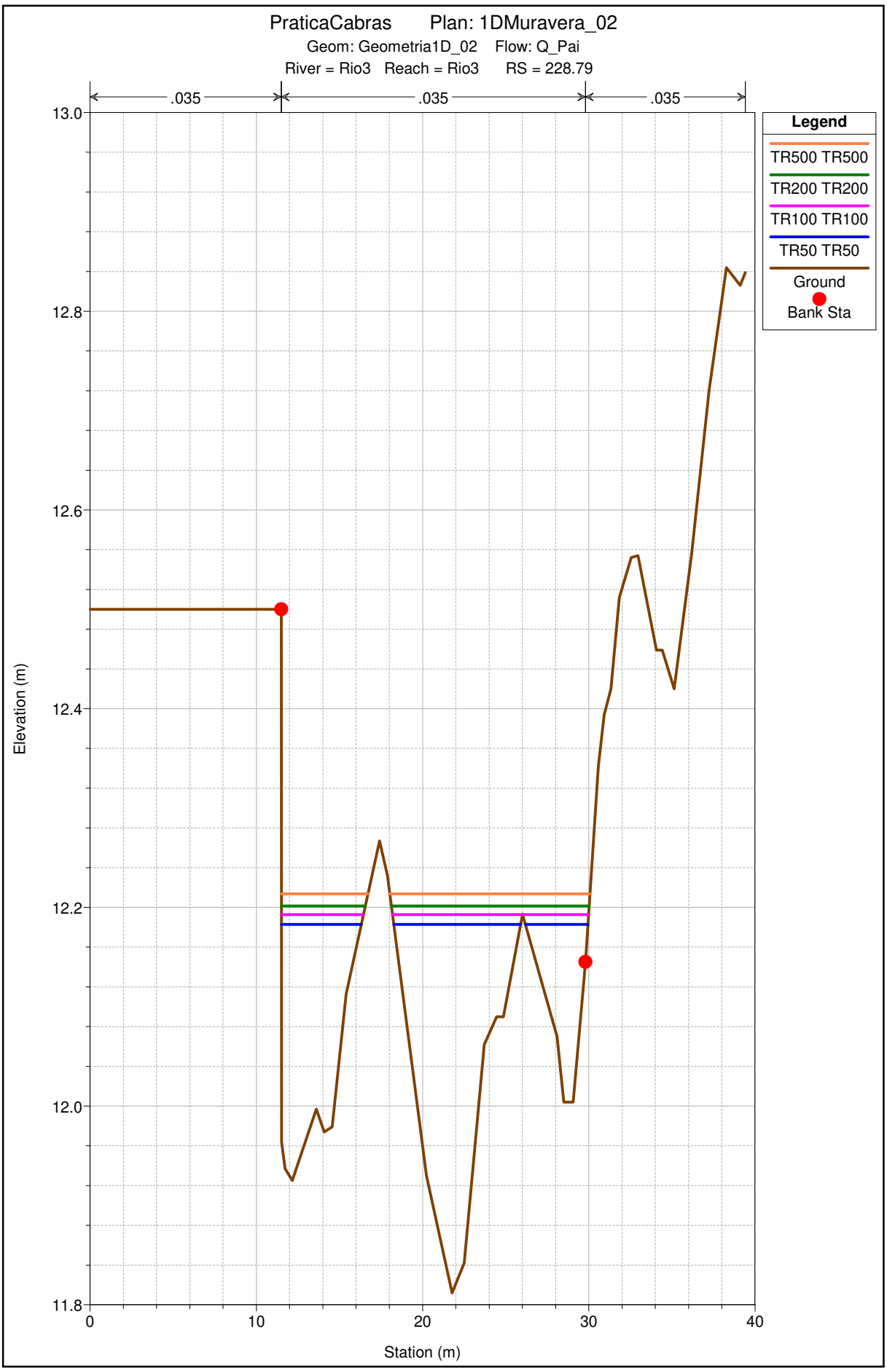

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 271
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
15.0
14.8
14.6
14.4
14.2
14.0
13.8
0
10
20
30
40
50
Station (m)

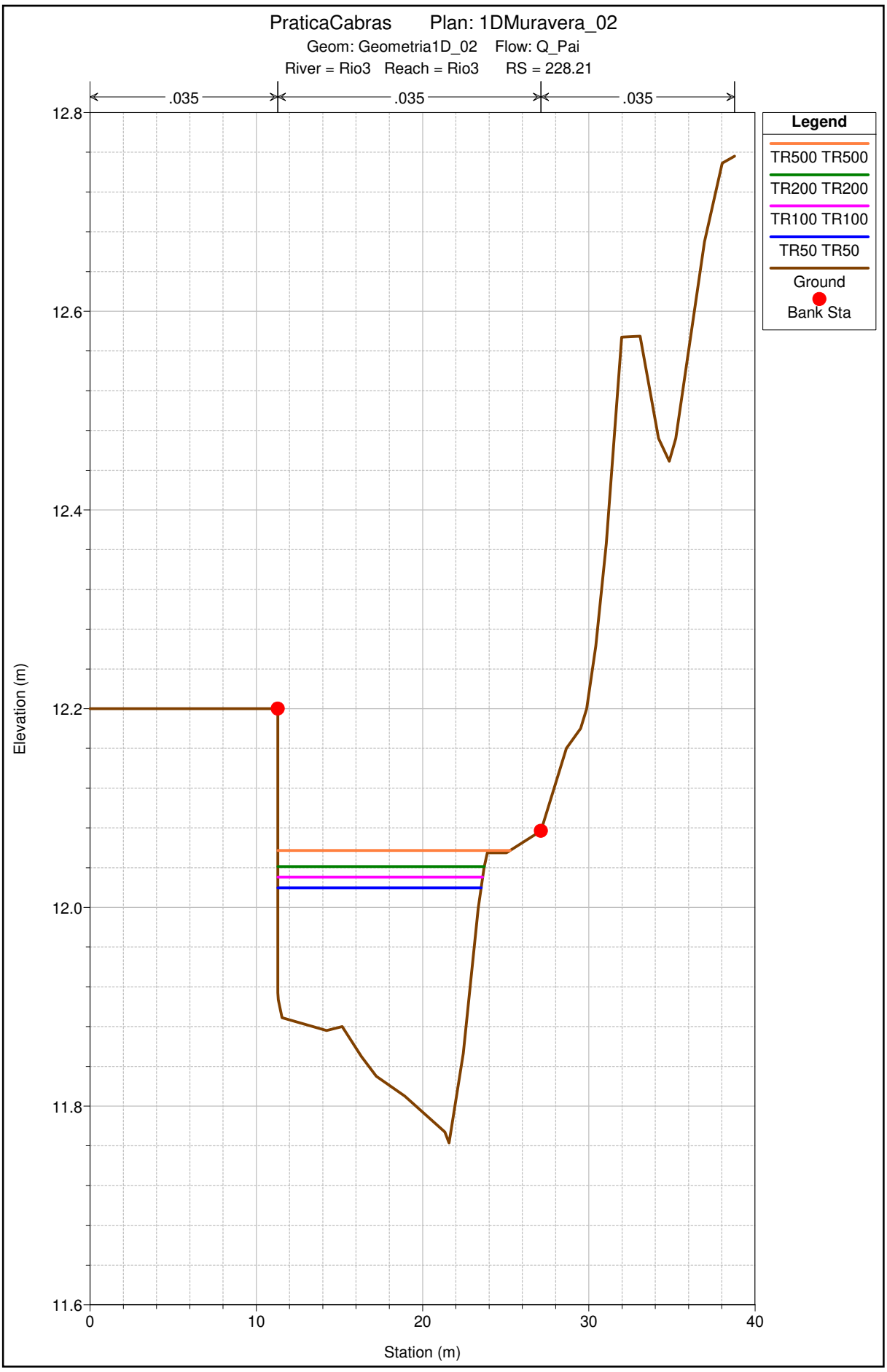

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 261
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
14.1
14.0
13.9
13.8
13.7
13.6
13.5
13.4
13.3
0
10
20
30
40
50
Station (m)

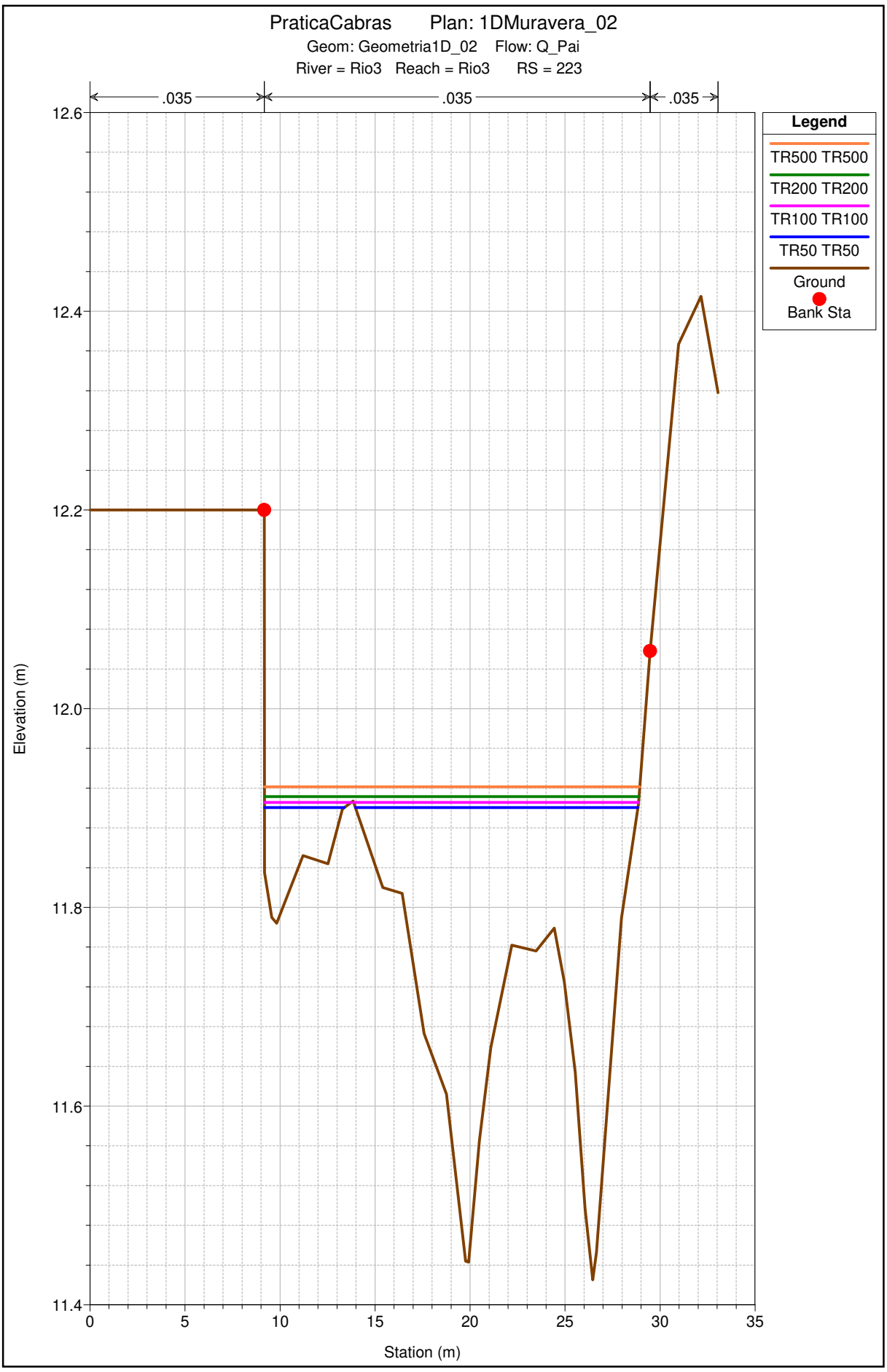

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 250
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
14.0
13.8
13.6
13.4
13.2
13.0
12.8
0
10
20
30
40
50
Station (m)

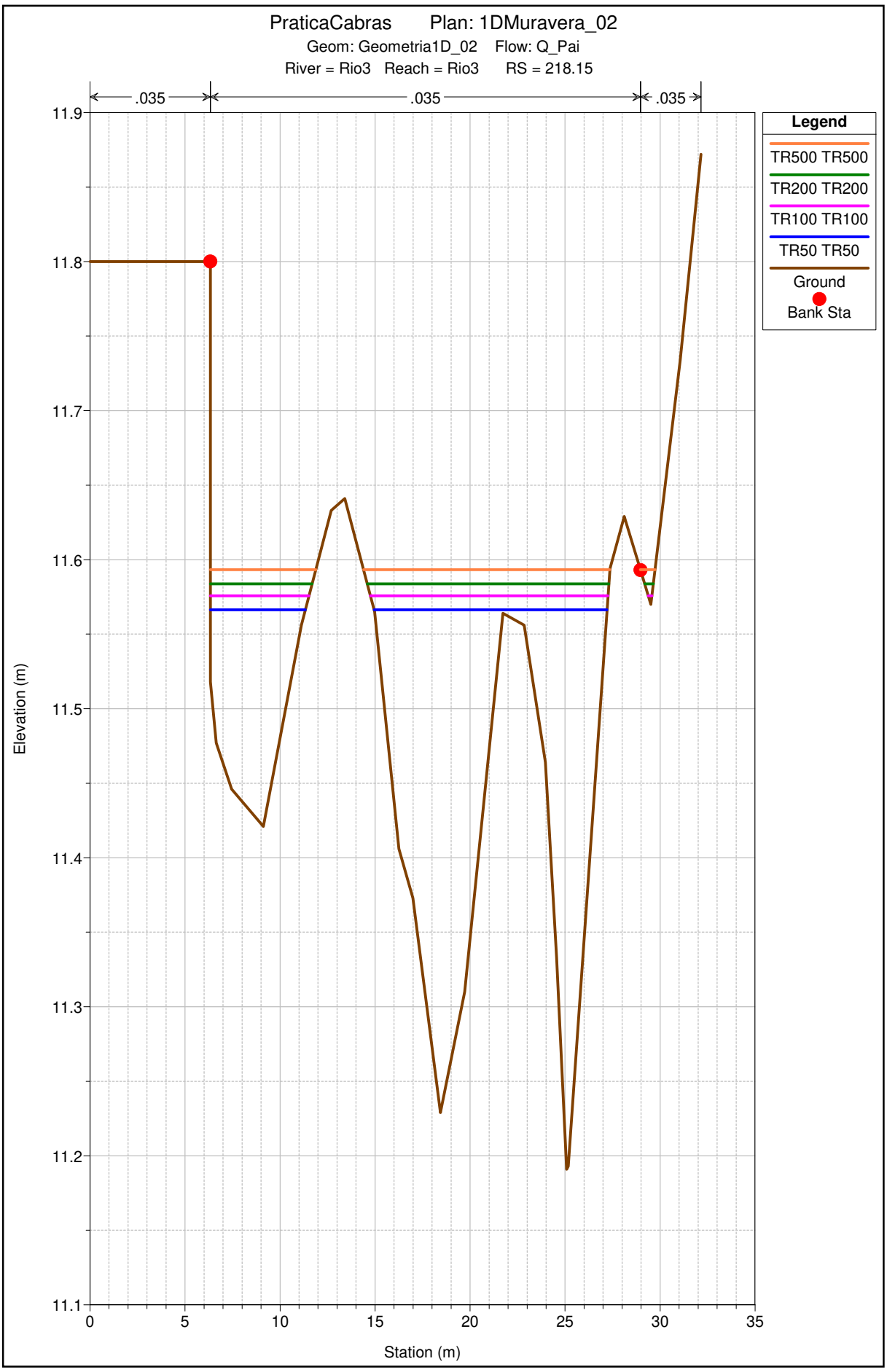

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 242.29
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
13.8
13.6
13.4
13.2
13.0
12.8
12.6
12.4
0
10
20
30
40
50
Station (m)

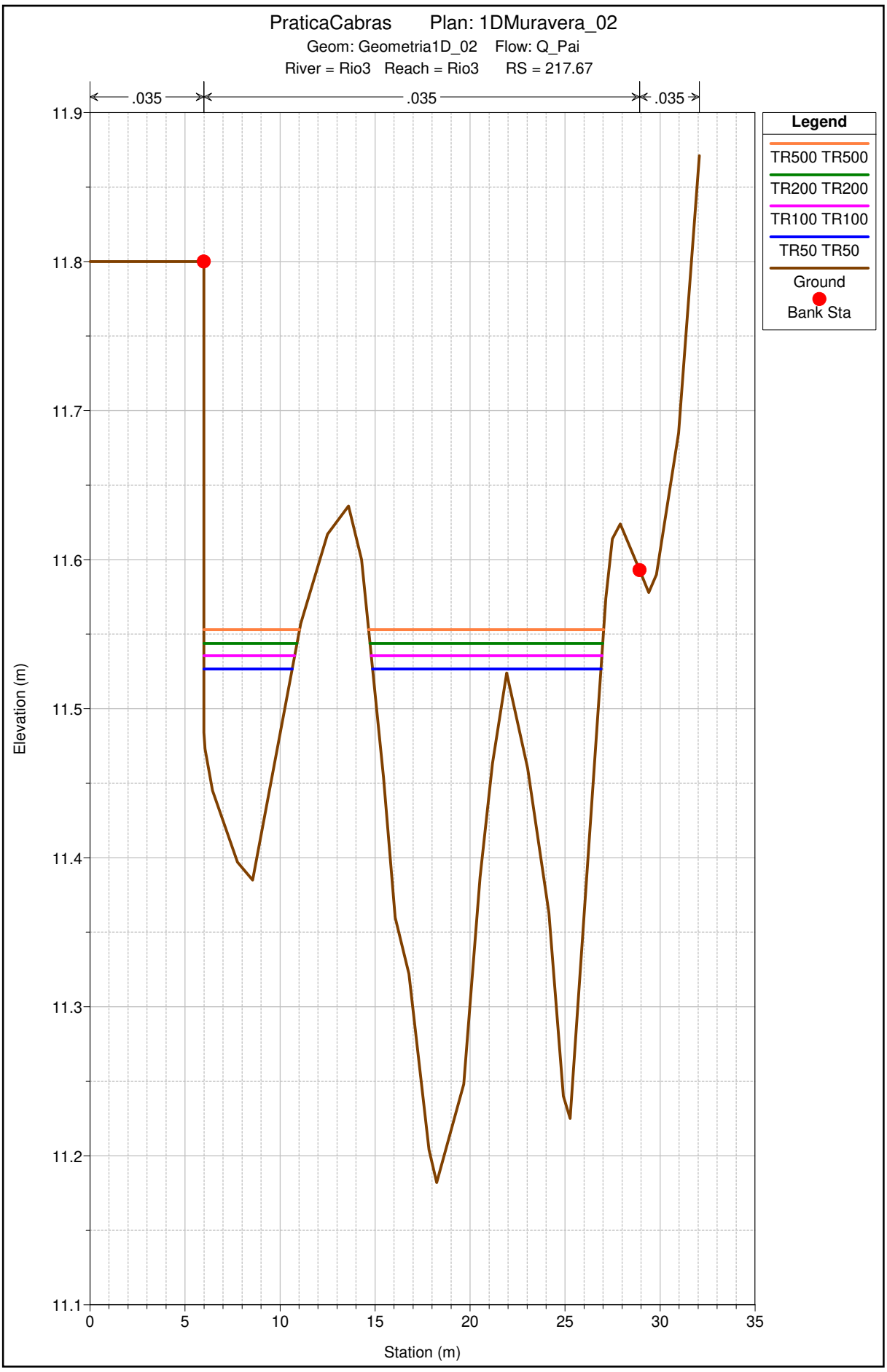

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 236.50
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
13.4
13.2
13.0
12.8
12.6
12.4
12.2
0
10
20
30
40
50
Station (m)

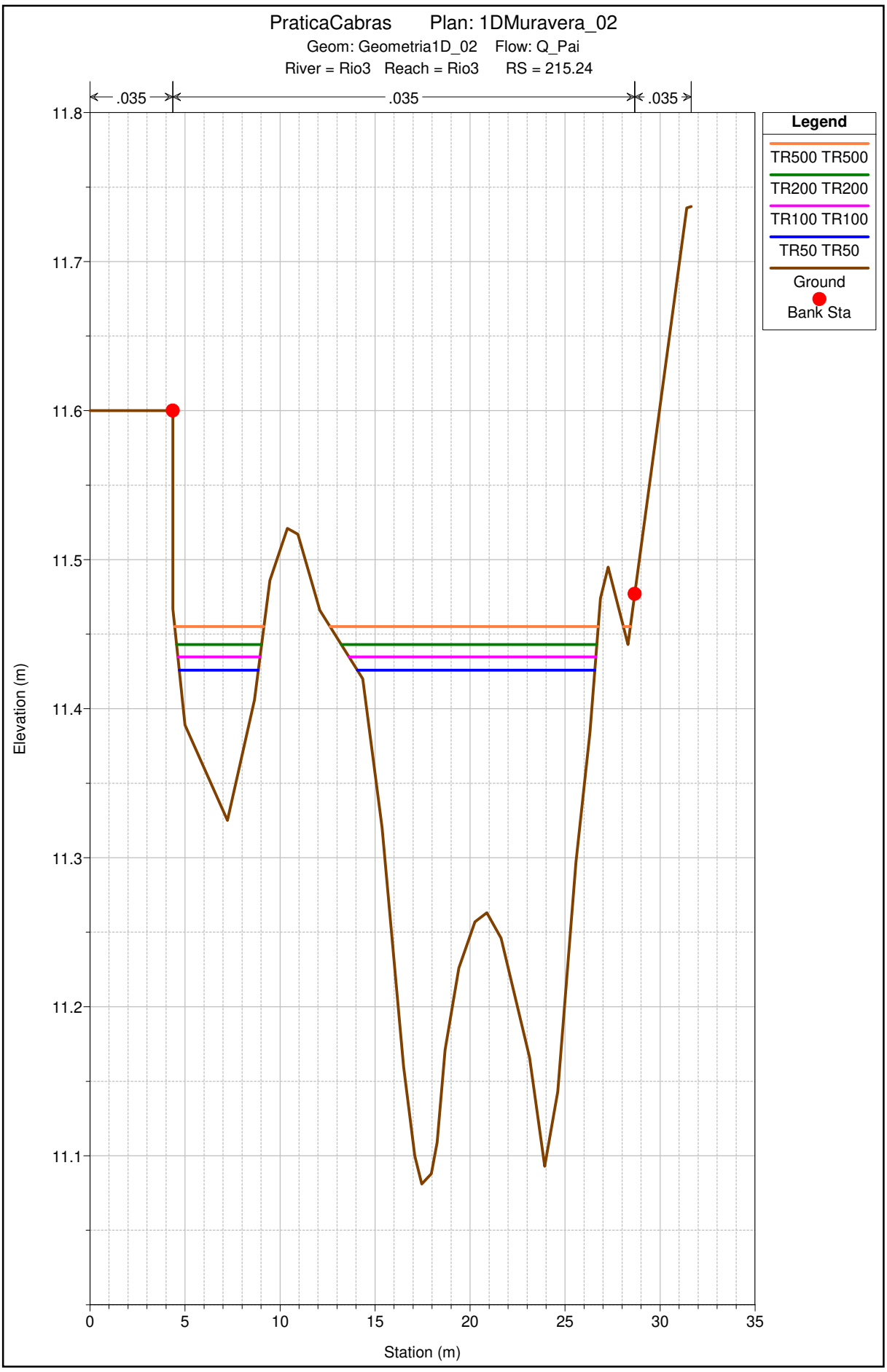

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 228.79
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
13.0
12.8
12.6
12.4
12.2
12.0
11.8
0
10
20
30
40
Station (m)

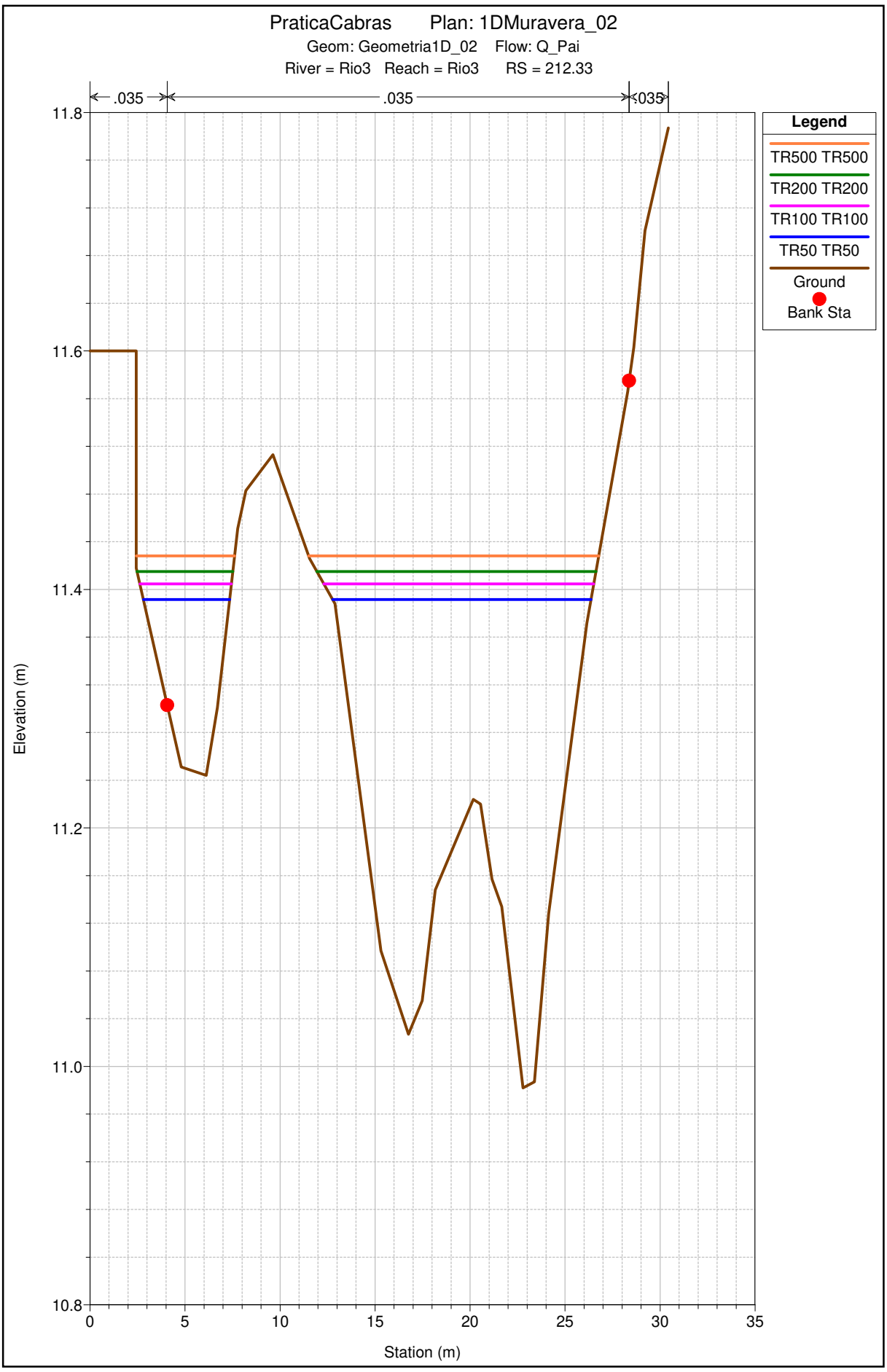

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 228.21
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
12.8
12.6
12.4
12.2
12.0
11.8
11.6
0
10
20
30
40
Station (m)

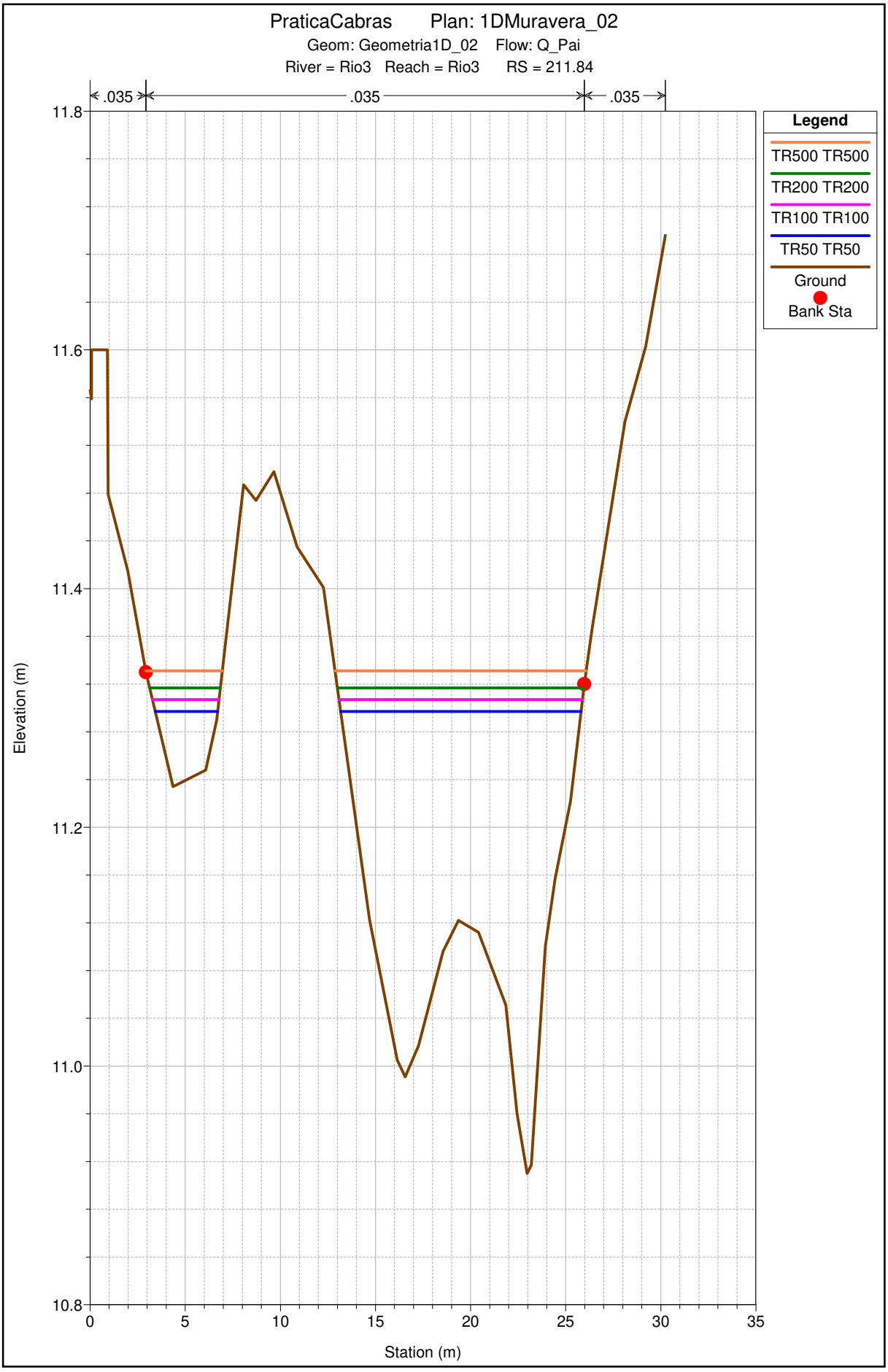

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 223
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
12.6
12.4
12.2
12.0
11.8
11.6
11.4
0
5
10
15
20
25
30
35
Station (m)

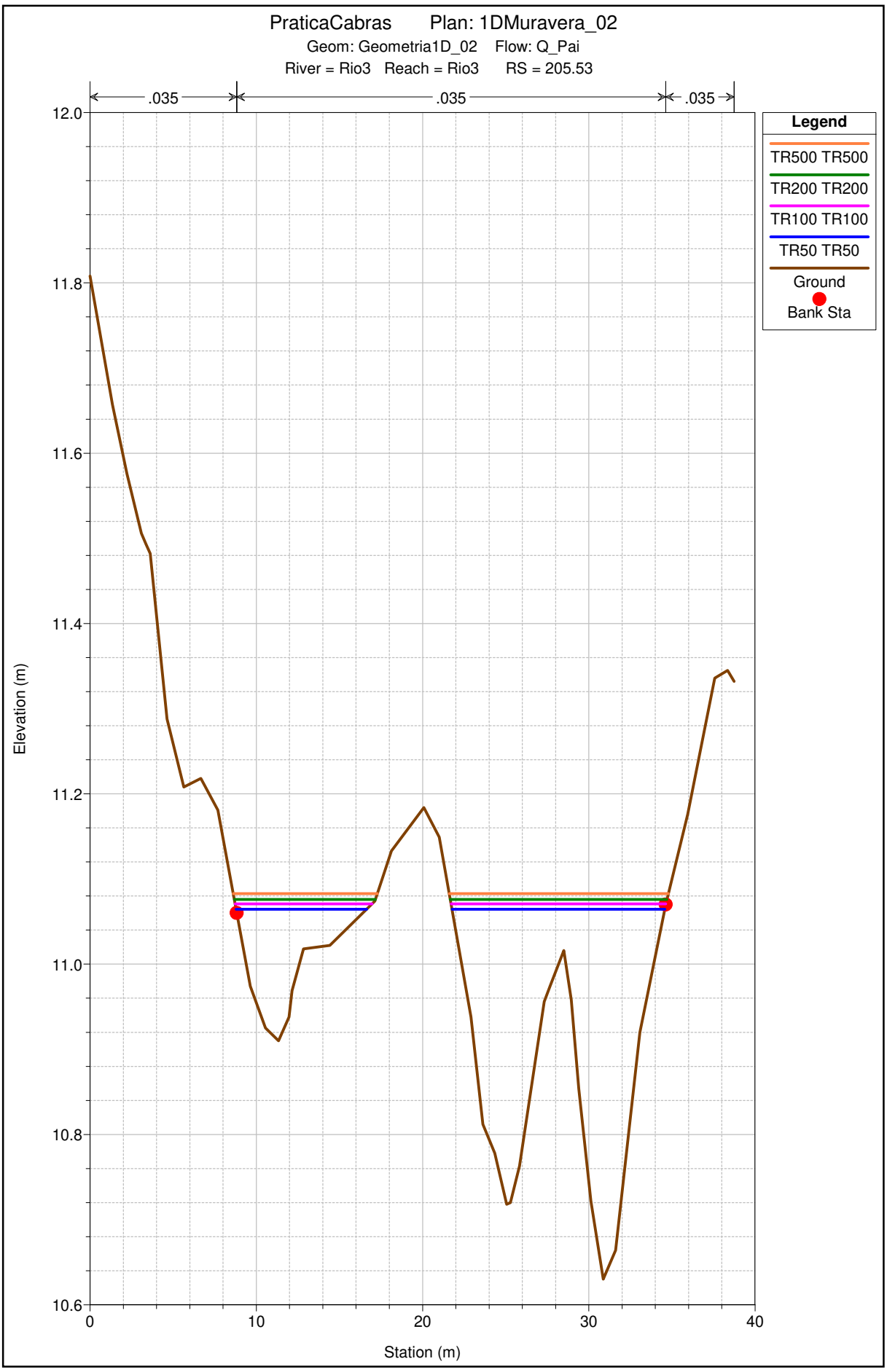

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 218.15
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
Station (m)
11.9
11.8
11.7
11.6
11.5
11.4
11.3
11.2
11.1
0
5
10
15
20
25
30
35

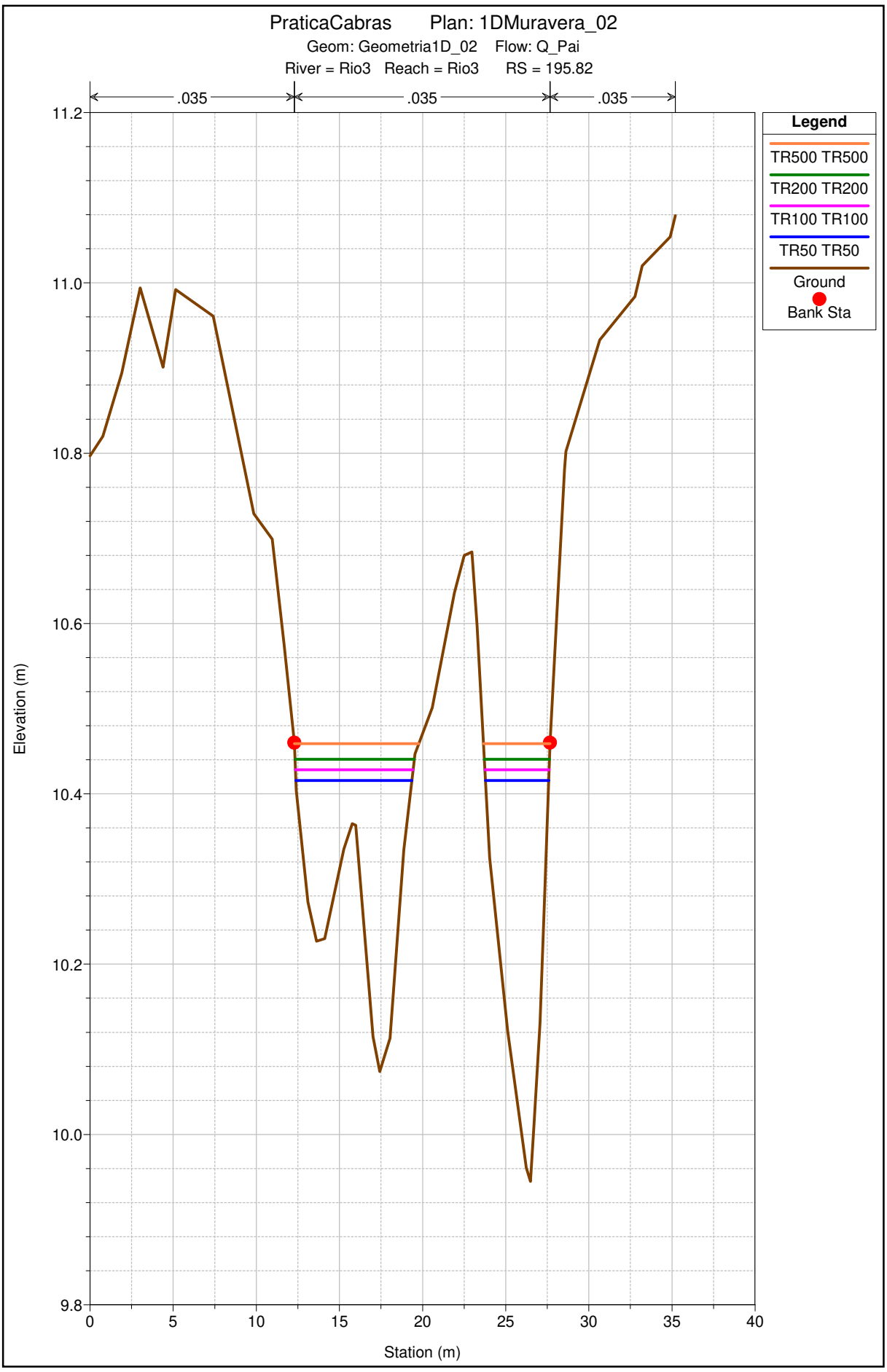

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 217.67
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
11.9
11.8
11.7
11.6
11.5
11.4
11.3
11.2
11.1
0
5
10
15
20
25
30
35
Station (m)

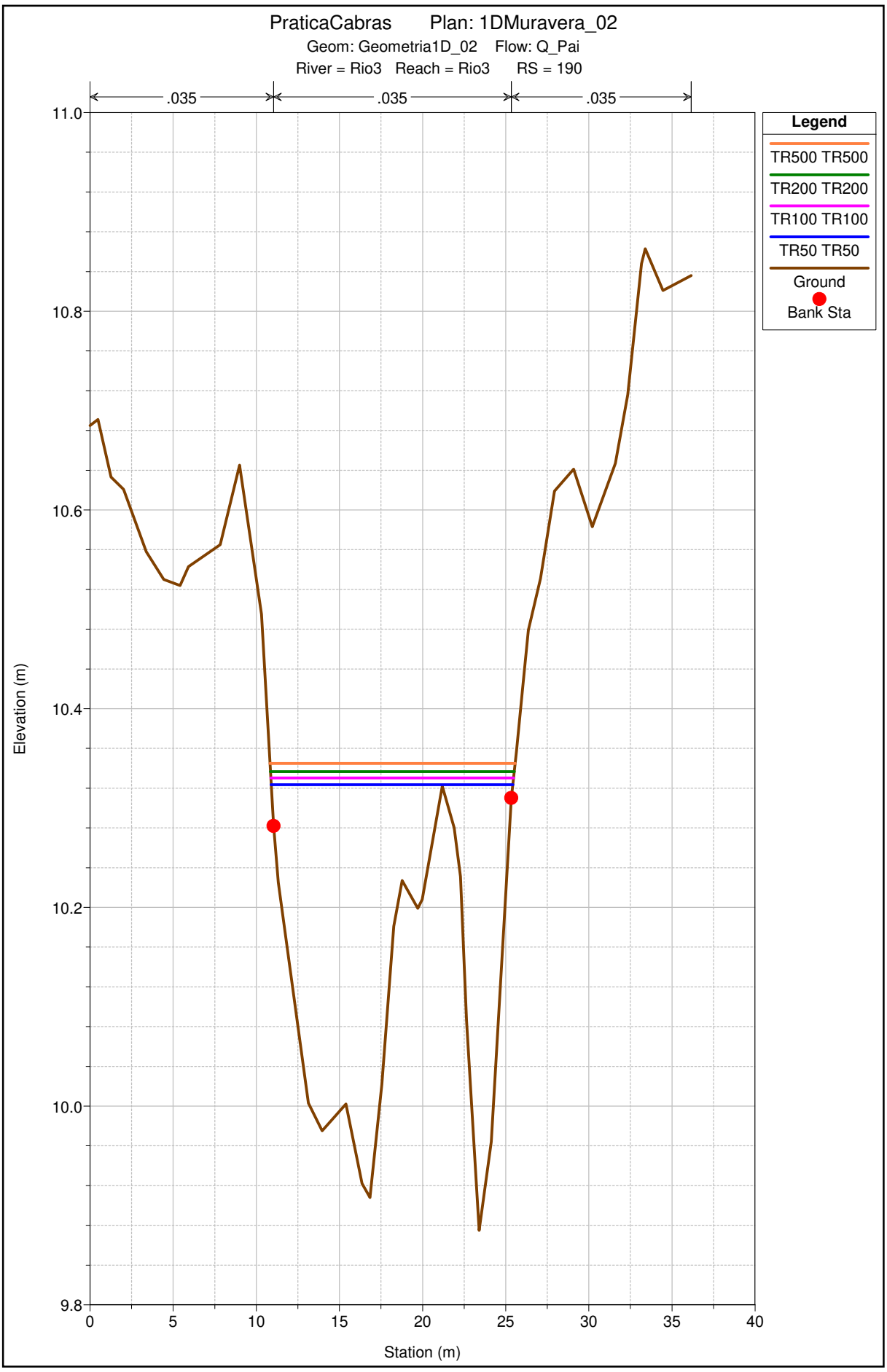

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 215.24
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
11.8
11.7
11.6
11.5
11.4
11.3
11.2
11.1
0
5
10
15
20
25
30
35
Station (m)

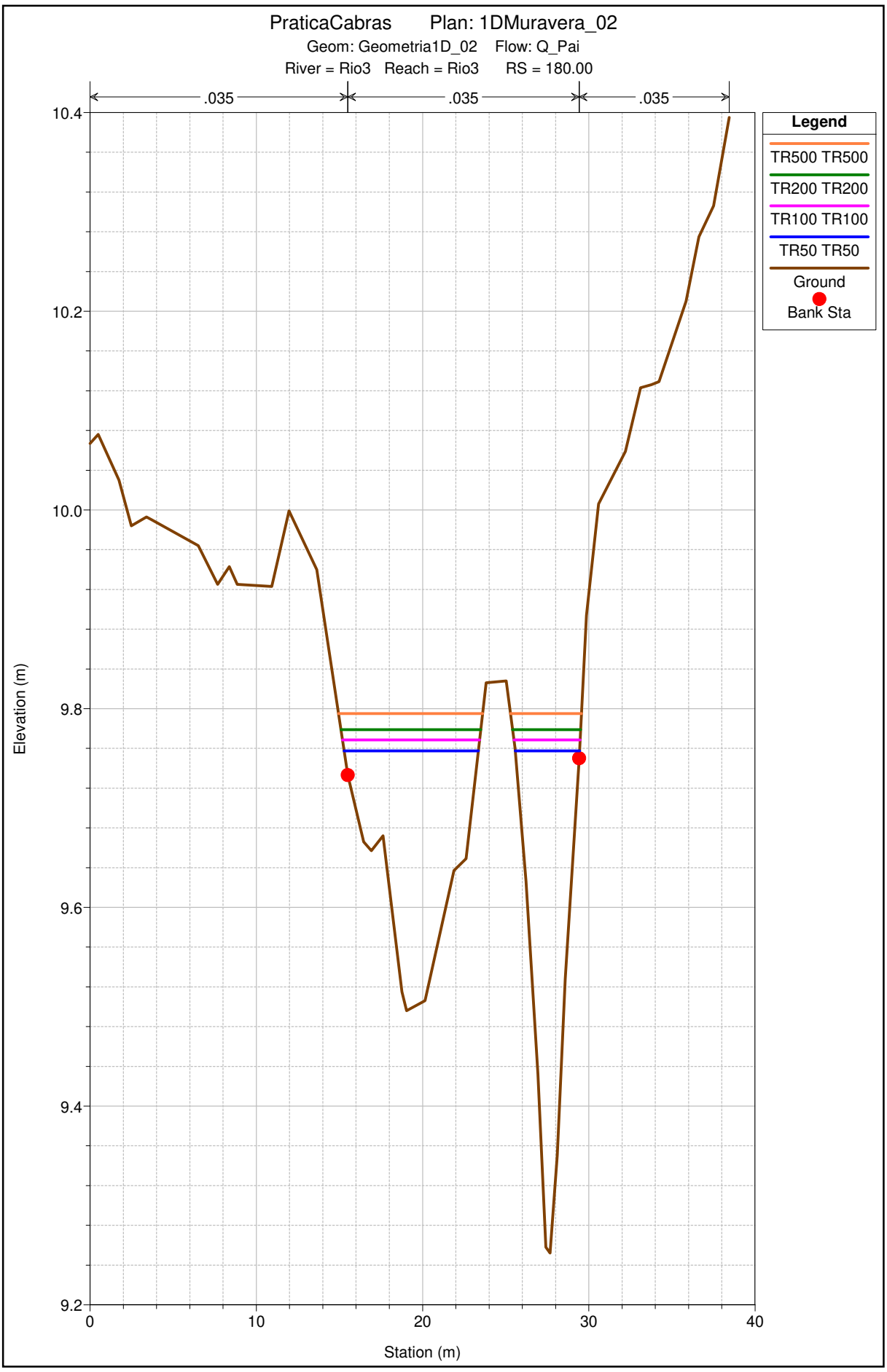

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 212.33
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
11.8
11.6
11.4
11.2
11.0
10.8
0
5
10
15
20
25
30
35
Station (m)

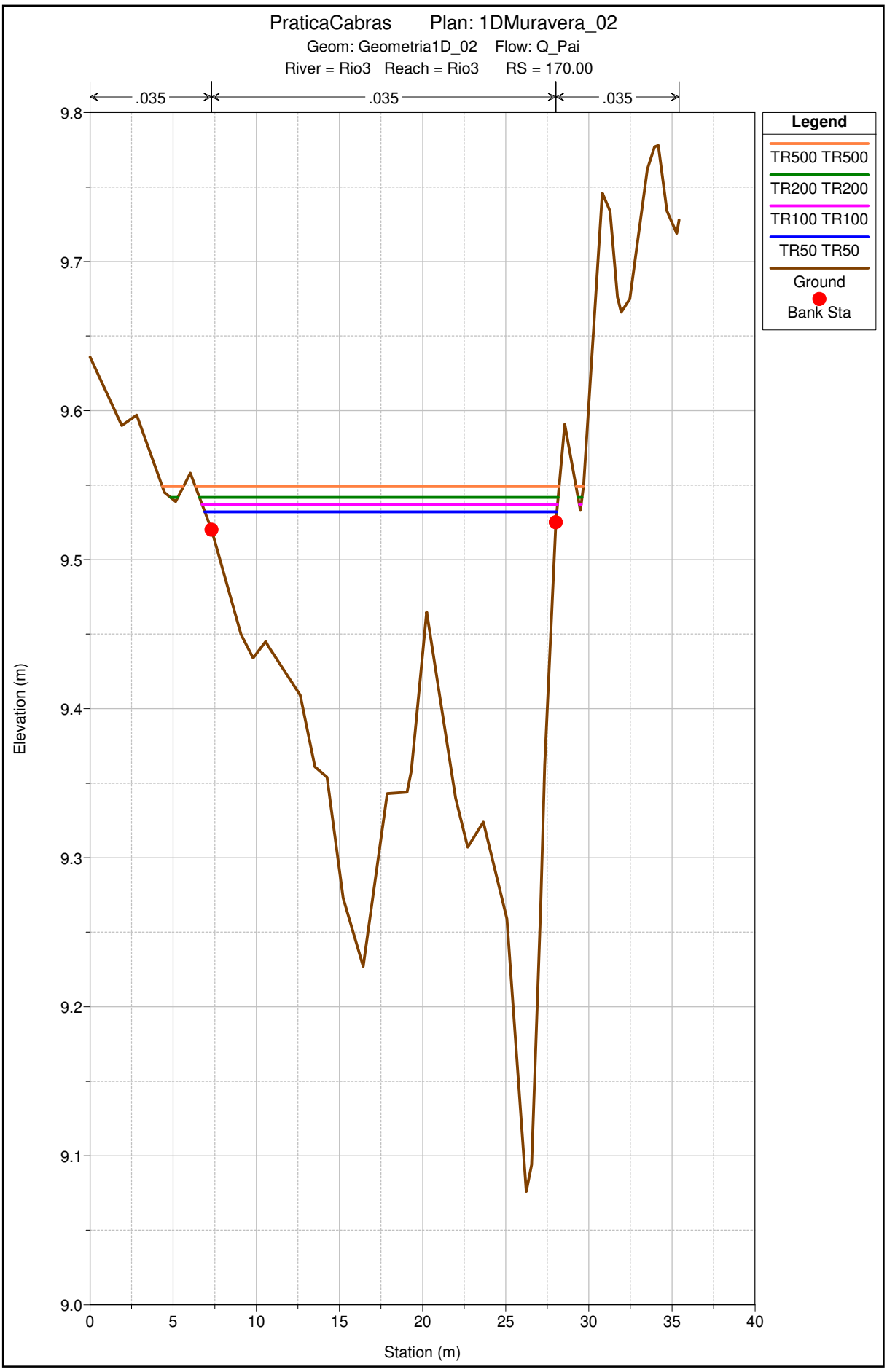

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 211.84
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
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11.6
11.4
11.2
11.0
10.8
0
5
10
15
20
25
30
35
Station (m)

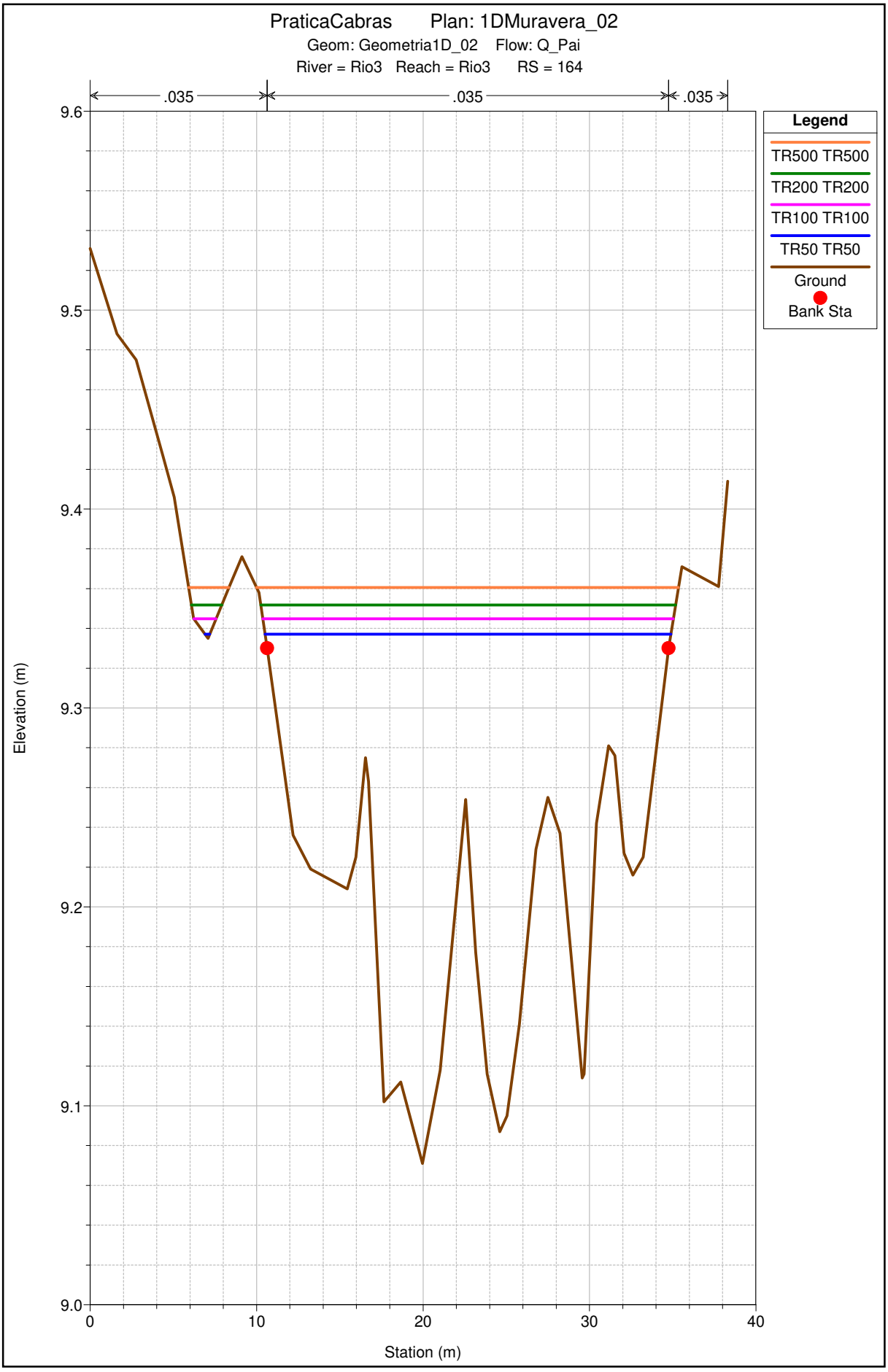

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 205.53
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
Station (m)
12.0
11.8
11.6
11.4
11.2
11.0
10.8
10.6
0
10
20
30
40

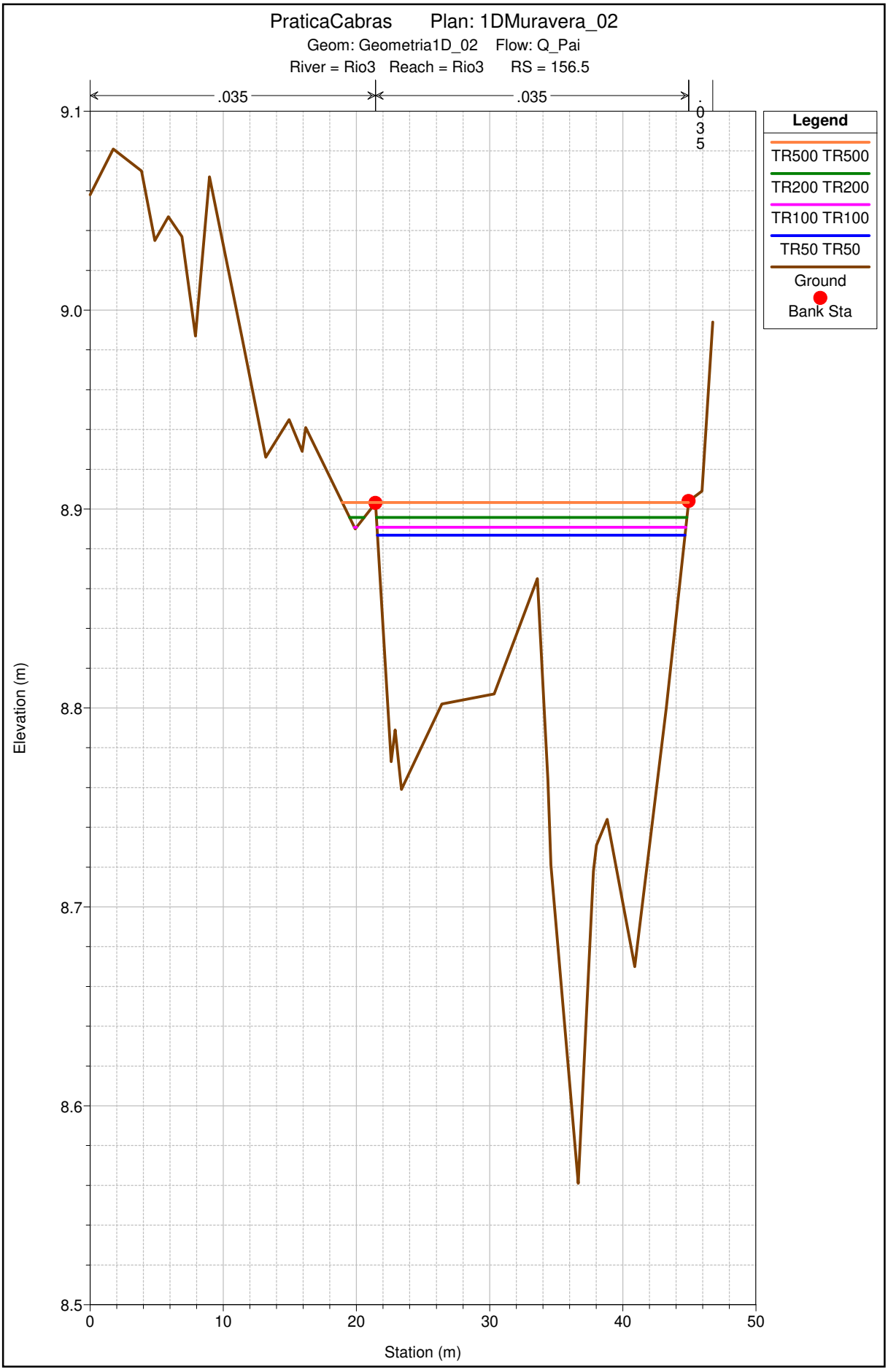

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 195.82
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
Station (m)
11.2
11.0
10.8
10.6
10.4
10.2
10.0
9.8
0
5
10
15
20
25
30
35
40

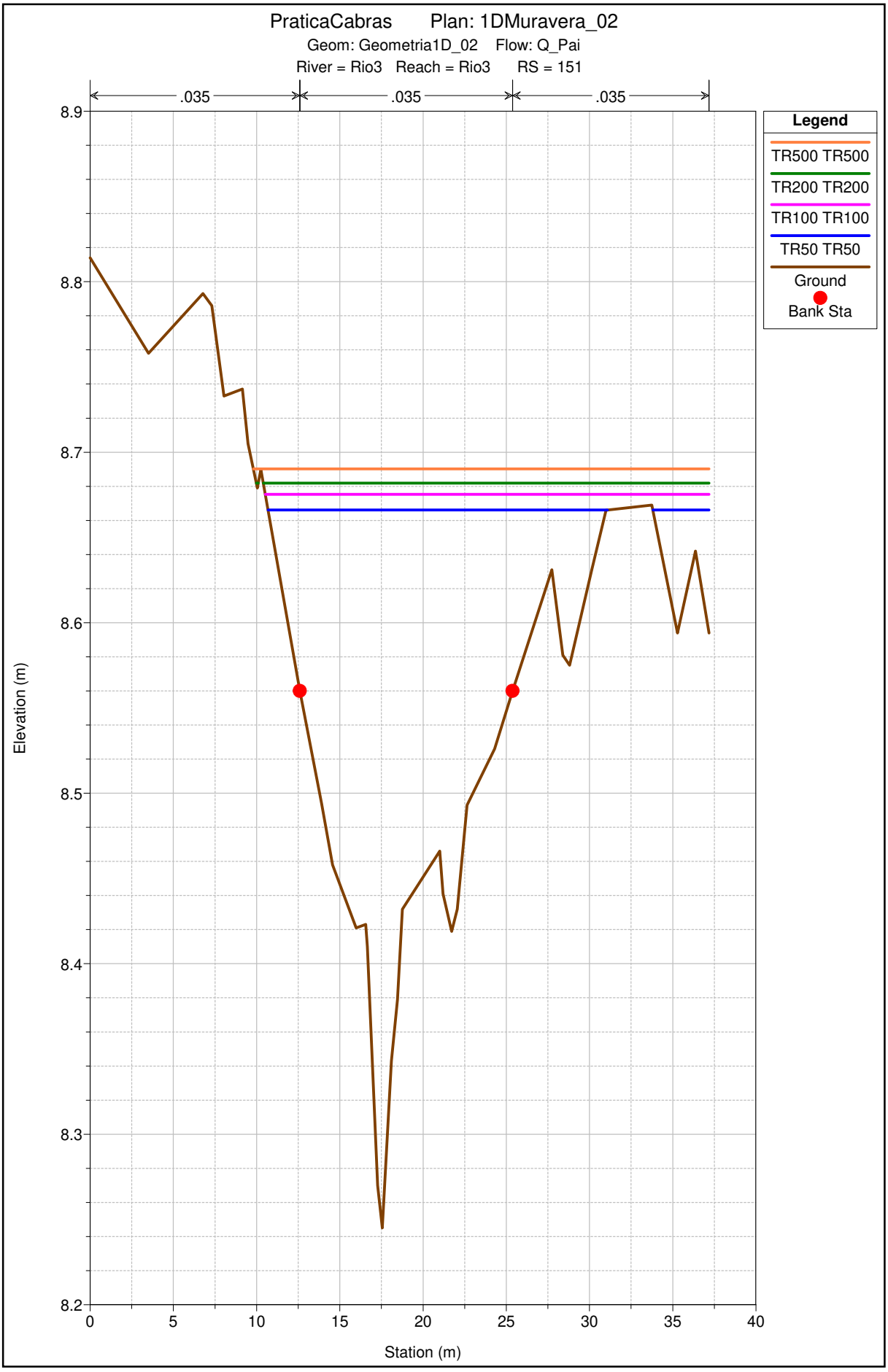

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 190
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
Station (m)
11.0
10.8
10.6
10.4
10.2
10.0
9.8
0
5
10
15
20
25
30
35
40

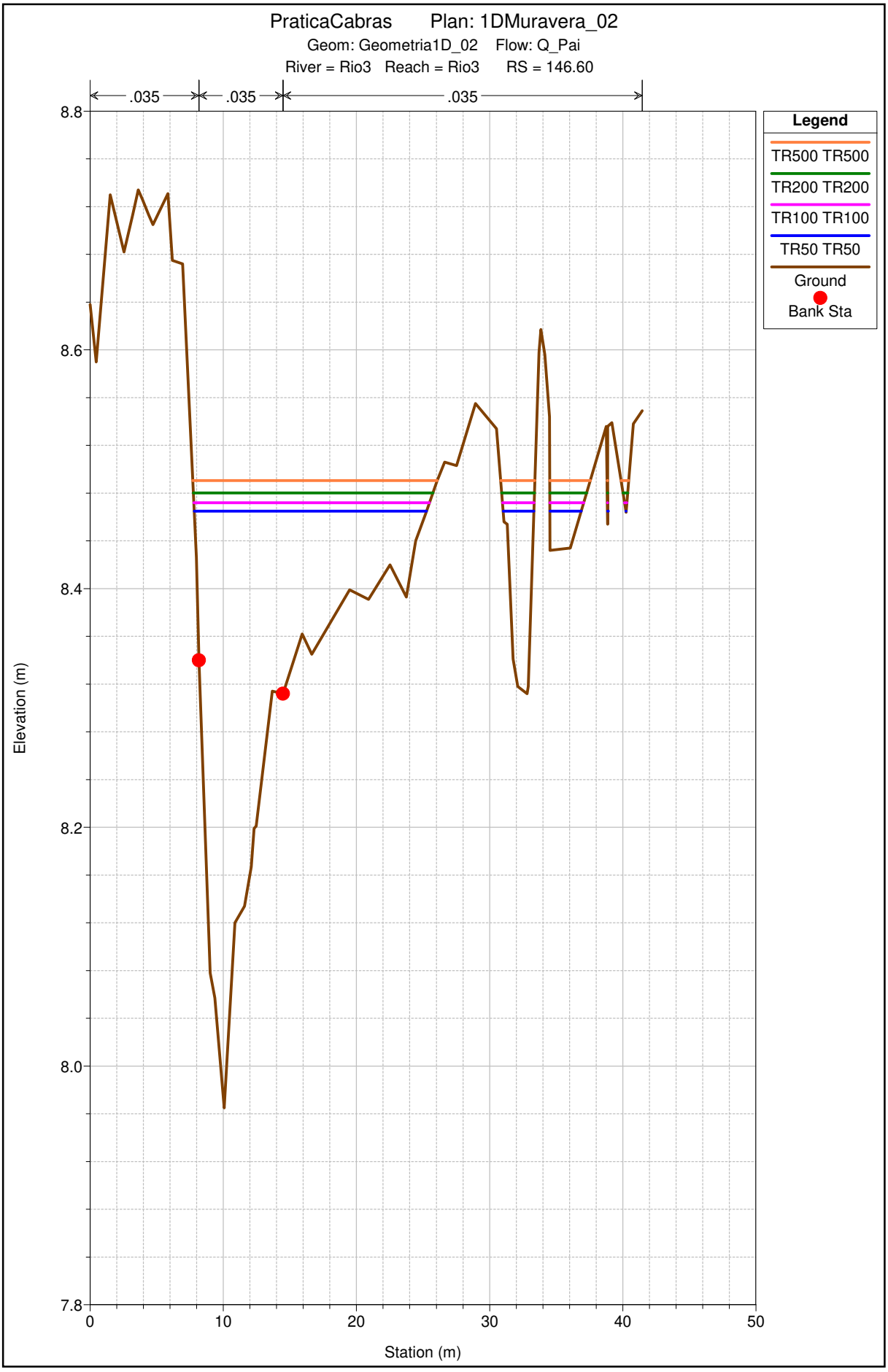

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 180.00
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
Station (m)
10.4
10.2
10.0
9.8
9.6
9.4
9.2
0
10
20
30
40

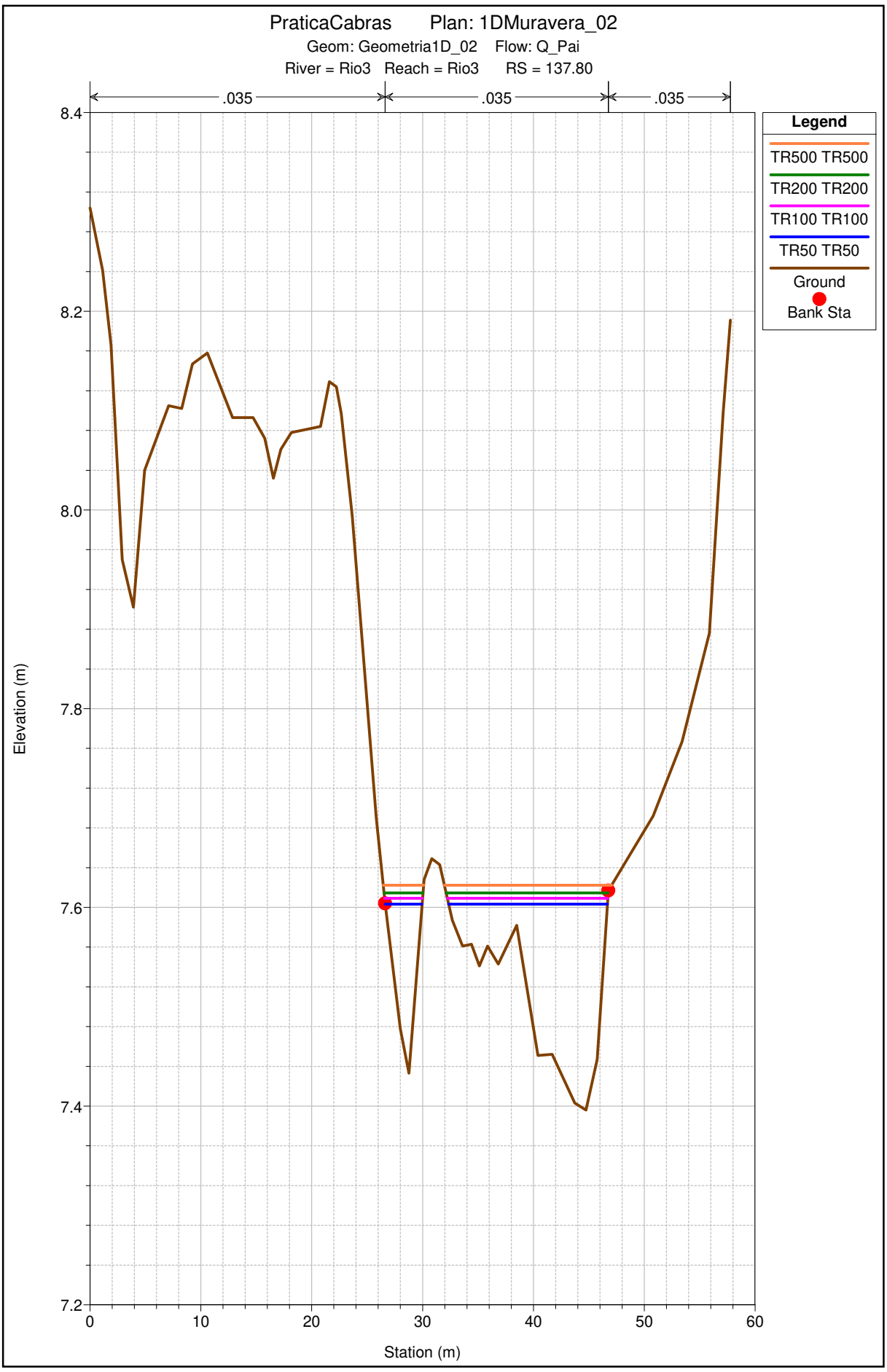

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 170.00
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
Station (m)
9.8
9.7
9.6
9.5
9.4
9.3
9.2
9.1
9.0
0
5
10
15
20
25
30
35
40

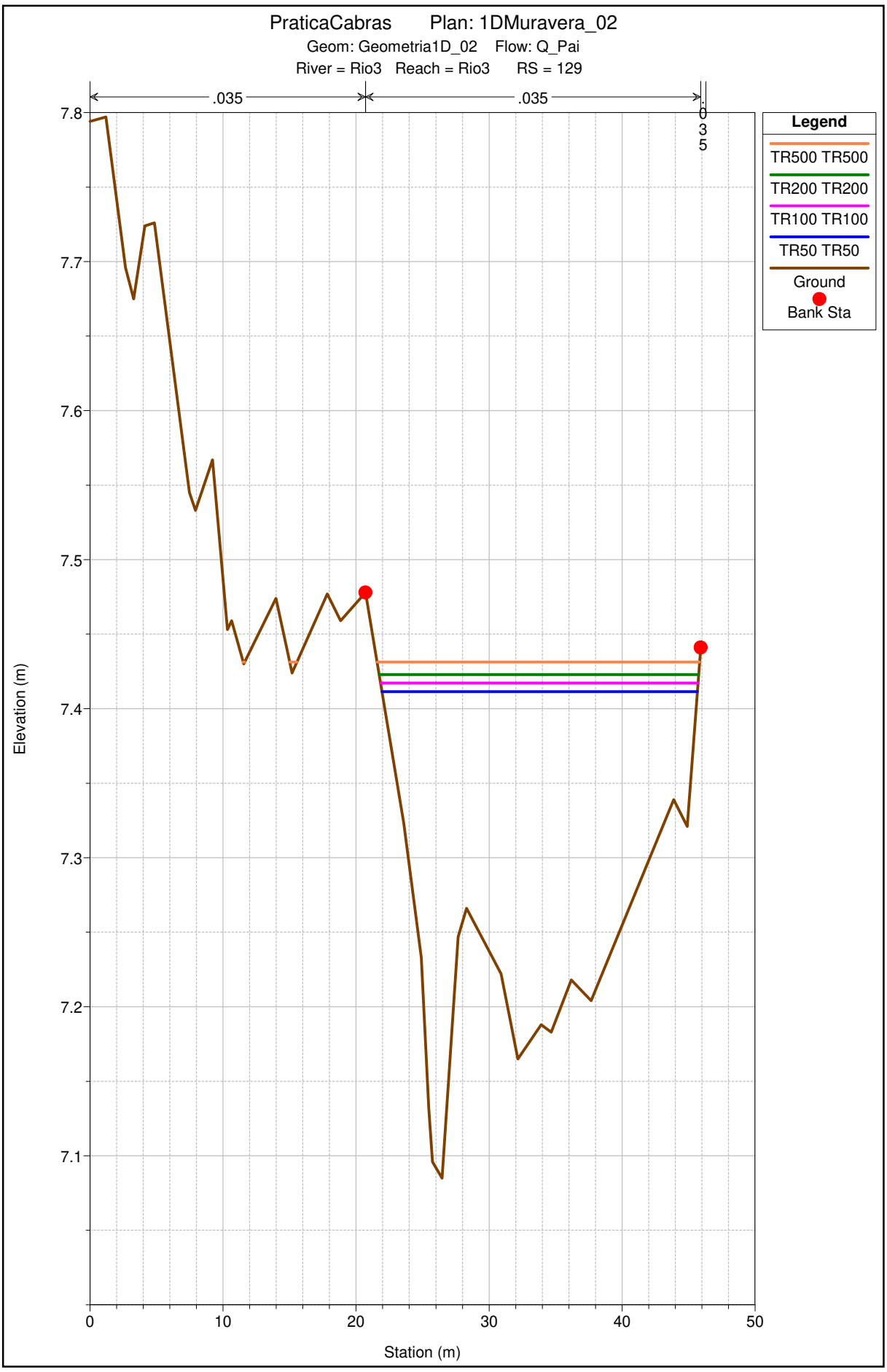

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 164
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
Station (m)
9.6
9.5
9.4
9.3
9.2
9.1
9.0
0
10
20
30
40

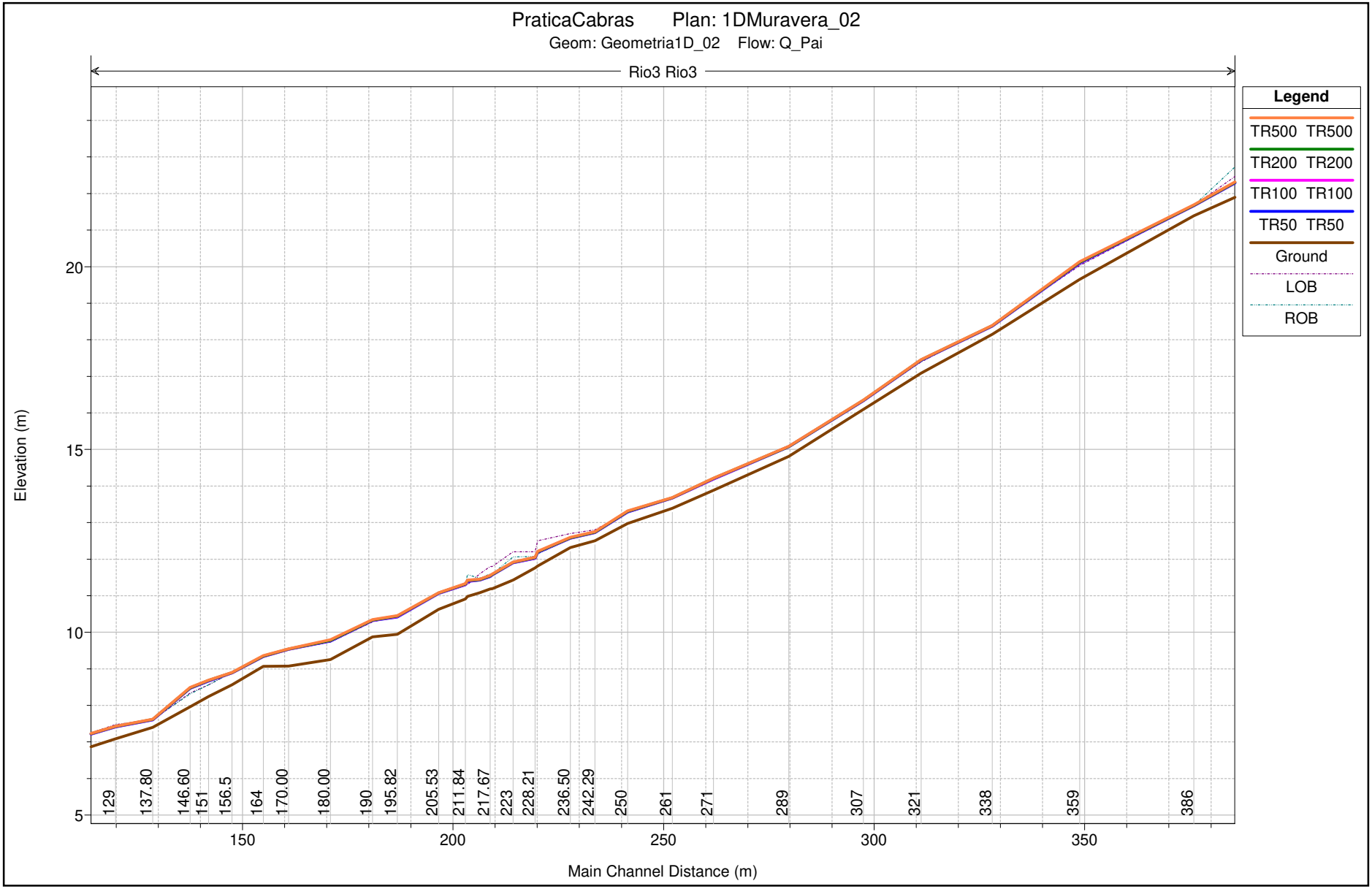

PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 156.5
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
Station (m)
9.1
9.0
8.9
8.8
8.7
8.6
8.5
0
10
20
30
40
50


PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 151
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
Station (m)
8.9
8.8
8.7
8.6
8.5
8.4
8.3
8.2
0
5
10
15
20
25
30
35
40


PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 146.60
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
Station (m)
8.8
8.6
8.4
8.2
8.0
7.8
0
10
20
30
40
50


PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 137.80
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
Station (m)
8.4
8.2
8.0
7.8
7.6
7.4
7.2
0
10
20
30
40
50
60


PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
River = Rio3 Reach = Rio3 RS = 129
.035
.035
.035
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
Bank Sta
Elevation (m)
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
0
10
20
30
40
50
Station (m)


PraticaCabras Plan: 1DMuravera_02
Geom: Geometria1D_02 Flow: Q_Pai
Rio3 Rio3
Legend
TR500 TR500
TR200 TR200
TR100 TR100
TR50 TR50
Ground
LOB
ROB
Elevation (m)
Main Channel Distance (m)
5
10
15
20
150
200
250
300
350
129
137.80
146.60
151
156.5
164
170.00
180.00
190
195.82
205.53
211.84
217.67
223
228.21
236.50
242.29
250
261
271
289
307
321
338
359
386

HEC-RAS Plan: 1DMuravera_02 Locations: User Defined

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
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Rio3	Rio3	338	TR50	5.22	18.15	18.37	18.50	18.88	0.195511	3.14	1.66	13.41	2.85
Rio3	Rio3	338	TR100	5.58	18.15	18.38	18.53	18.90	0.194678	3.21	1.74	13.53	2.86
Rio3	Rio3	338	TR200	5.95	18.15	18.38	18.54	18.93	0.194367	3.28	1.81	13.63	2.87
Rio3	Rio3	338	TR500	6.48	18.15	18.39	18.55	18.97	0.194257	3.38	1.92	13.78	2.89
Rio3	Rio3	321	TR50	5.22	17.09	17.44	17.47	17.56	0.036302	1.54	3.42	23.75	1.27
Rio3	Rio3	321	TR100	5.58	17.09	17.45	17.47	17.57	0.036851	1.58	3.55	24.00	1.28
Rio3	Rio3	321	TR200	5.95	17.09	17.45	17.49	17.59	0.037378	1.63	3.69	24.25	1.30
Rio3	Rio3	321	TR500	6.48	17.09	17.46	17.50	17.60	0.038121	1.69	3.88	24.74	1.32
Rio3	Rio3	307	TR50	5.22	16.10	16.33	16.43	16.68	0.131438	2.63	1.98	15.49	2.35
Rio3	Rio3	307	TR100	5.58	16.10	16.34	16.44	16.70	0.126728	2.65	2.10	15.79	2.32
Rio3	Rio3	307	TR200	5.95	16.10	16.35	16.45	16.71	0.123322	2.68	2.22	16.06	2.30
Rio3	Rio3	307	TR500	6.48	16.10	16.35	16.47	16.73	0.117295	2.72	2.38	16.32	2.27
Rio3	Rio3	289	TR50	5.22	14.81	15.07	15.12	15.24	0.051884	1.81	2.88	19.71	1.51
Rio3	Rio3	289	TR100	5.58	14.81	15.08	15.13	15.26	0.053166	1.88	2.98	19.83	1.54
Rio3	Rio3	289	TR200	5.95	14.81	15.08	15.14	15.27	0.054109	1.93	3.08	19.95	1.56
Rio3	Rio3	289	TR500	6.48	14.81	15.09	15.15	15.30	0.055929	2.02	3.21	20.10	1.59
Rio3	Rio3	271	TR50	5.22	13.89	14.19	14.24	14.36	0.046224	1.84	2.84	17.29	1.45
Rio3	Rio3	271	TR100	5.58	13.89	14.20	14.25	14.38	0.045469	1.87	2.98	17.58	1.45
Rio3	Rio3	271	TR200	5.95	13.89	14.21	14.26	14.39	0.044794	1.91	3.12	17.77	1.45
Rio3	Rio3	271	TR500	6.48	13.89	14.22	14.28	14.41	0.043639	1.96	3.31	18.04	1.44
Rio3	Rio3	261	TR50	5.22	13.39	13.67	13.72	13.82	0.065516	1.73	3.01	26.12	1.63
Rio3	Rio3	261	TR100	5.58	13.39	13.67	13.72	13.84	0.067519	1.79	3.11	26.37	1.66
Rio3	Rio3	261	TR200	5.95	13.39	13.68	13.73	13.85	0.069326	1.85	3.21	27.14	1.69
Rio3	Rio3	261	TR500	6.48	13.39	13.68	13.74	13.87	0.071380	1.93	3.38	28.66	1.73
Rio3	Rio3	250	TR50	5.22	12.98	13.29	13.30	13.39	0.026159	1.41	3.71	23.38	1.10
Rio3	Rio3	250	TR100	5.58	12.98	13.30	13.31	13.40	0.025549	1.42	3.94	24.72	1.09
Rio3	Rio3	250	TR200	5.95	12.98	13.31	13.32	13.41	0.025348	1.45	4.14	25.34	1.09
Rio3	Rio3	250	TR500	6.48	12.98	13.32	13.33	13.43	0.025085	1.49	4.42	26.20	1.09
Rio3	Rio3	242.29	TR50	5.22	12.50	12.72	12.83	13.02	0.094893	2.41	2.16	14.88	2.02

HEC-RAS Plan: 1DMuravera_02 Locations: User Defined (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
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Rio3	Rio3	242.29	TR100	5.58	12.50	12.73	12.84	13.04	0.093629	2.45	2.27	15.11	2.02
Rio3	Rio3	242.29	TR200	5.95	12.50	12.74	12.85	13.06	0.091128	2.49	2.39	15.22	2.01
Rio3	Rio3	242.29	TR500	6.48	12.50	12.75	12.86	13.08	0.087863	2.53	2.56	15.46	1.99
Rio3	Rio3	236.50	TR50	5.22	12.31	12.58	12.59	12.70	0.027805	1.54	3.40	18.64	1.14
Rio3	Rio3	236.50	TR100	5.58	12.31	12.58	12.60	12.71	0.028363	1.59	3.52	18.72	1.16
Rio3	Rio3	236.50	TR200	5.95	12.31	12.59	12.61	12.73	0.029516	1.65	3.62	18.78	1.19
Rio3	Rio3	236.50	TR500	6.48	12.31	12.60	12.62	12.75	0.030288	1.72	3.78	18.89	1.21
Rio3	Rio3	228.79	TR50	5.22	11.81	12.18	12.24	12.39	0.057046	2.00	2.61	16.21	1.59
Rio3	Rio3	228.79	TR100	5.58	11.81	12.19	12.25	12.40	0.055467	2.02	2.77	16.74	1.58
Rio3	Rio3	228.79	TR200	5.95	11.81	12.20	12.26	12.41	0.053942	2.04	2.92	16.95	1.56
Rio3	Rio3	228.79	TR500	6.48	11.81	12.21	12.28	12.43	0.052095	2.08	3.13	17.25	1.55
Rio3	Rio3	228.21	TR50	5.22	11.76	12.02	12.12	12.34	0.081427	2.50	2.09	12.23	1.93
Rio3	Rio3	228.21	TR100	5.58	11.76	12.03	12.13	12.35	0.076646	2.51	2.23	12.32	1.89
Rio3	Rio3	228.21	TR200	5.95	11.76	12.04	12.14	12.37	0.073023	2.53	2.35	12.42	1.85
Rio3	Rio3	228.21	TR500	6.48	11.76	12.06	12.16	12.38	0.076469	2.53	2.56	13.97	1.89
Rio3	Rio3	223	TR50	5.22	11.43	11.90	11.92	12.03	0.031640	1.57	3.32	19.05	1.20
Rio3	Rio3	223	TR100	5.58	11.43	11.91	11.93	12.04	0.033890	1.63	3.42	19.56	1.25
Rio3	Rio3	223	TR200	5.95	11.43	11.91	11.94	12.06	0.034812	1.68	3.54	19.70	1.27
Rio3	Rio3	223	TR500	6.48	11.43	11.92	11.95	12.08	0.034680	1.74	3.73	19.74	1.28
Rio3	Rio3	218.15	TR50	5.22	11.19	11.57	11.64	11.79	0.072381	2.10	2.49	17.25	1.77
Rio3	Rio3	218.15	TR100	5.58	11.19	11.58	11.65	11.80	0.069207	2.11	2.65	17.88	1.74
Rio3	Rio3	218.15	TR200	5.95	11.19	11.58	11.66	11.82	0.067856	2.13	2.80	18.52	1.73
Rio3	Rio3	218.15	TR500	6.48	11.19	11.59	11.67	11.84	0.068050	2.18	2.98	19.27	1.74
Rio3	Rio3	217.67	TR50	5.22	11.18	11.53	11.60	11.75	0.070646	2.11	2.47	16.67	1.75
Rio3	Rio3	217.67	TR100	5.58	11.18	11.54	11.62	11.77	0.067707	2.13	2.62	16.92	1.73
Rio3	Rio3	217.67	TR200	5.95	11.18	11.54	11.63	11.78	0.065793	2.16	2.76	17.16	1.72
Rio3	Rio3	217.67	TR500	6.48	11.18	11.55	11.64	11.80	0.066193	2.22	2.92	17.41	1.73
Rio3	Rio3	215.24	TR50	5.22	11.08	11.43	11.48	11.60	0.046242	1.87	2.80	16.66	1.45
Rio3	Rio3	215.24	TR100	5.58	11.08	11.43	11.49	11.62	0.046656	1.89	2.95	17.32	1.46

HEC-RAS Plan: 1DMuravera_02 Locations: User Defined (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
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Rio3	Rio3	215.24	TR200	5.95	11.08	11.44	11.50	11.63	0.047242	1.92	3.10	17.92	1.48
Rio3	Rio3	215.24	TR500	6.48	11.08	11.46	11.52	11.65	0.048607	1.95	3.32	19.18	1.50
Rio3	Rio3	212.33	TR50	5.22	10.98	11.39	11.40	11.50	0.021253	1.47	3.60	18.14	1.02
Rio3	Rio3	212.33	TR100	5.58	10.98	11.40	11.41	11.51	0.020771	1.47	3.84	19.03	1.01
Rio3	Rio3	212.33	TR200	5.95	10.98	11.42	11.42	11.53	0.020860	1.49	4.05	19.73	1.02
Rio3	Rio3	212.33	TR500	6.48	10.98	11.43	11.44	11.55	0.021217	1.53	4.31	20.44	1.03
Rio3	Rio3	211.84	TR50	5.22	10.91	11.30	11.35	11.48	0.045631	1.89	2.76	15.92	1.45
Rio3	Rio3	211.84	TR100	5.58	10.91	11.31	11.36	11.49	0.044488	1.91	2.92	16.30	1.44
Rio3	Rio3	211.84	TR200	5.95	10.91	11.32	11.37	11.51	0.043502	1.93	3.08	16.67	1.43
Rio3	Rio3	211.84	TR500	6.48	10.91	11.33	11.38	11.52	0.041669	1.95	3.32	17.22	1.41
Rio3	Rio3	205.53	TR50	5.22	10.63	11.06	11.10	11.20	0.038424	1.62	3.22	20.65	1.31
Rio3	Rio3	205.53	TR100	5.58	10.63	11.07	11.10	11.21	0.039654	1.67	3.35	21.14	1.33
Rio3	Rio3	205.53	TR200	5.95	10.63	11.08	11.12	11.23	0.040974	1.72	3.47	21.51	1.36
Rio3	Rio3	205.53	TR500	6.48	10.63	11.08	11.13	11.25	0.042847	1.80	3.61	21.84	1.40
Rio3	Rio3	195.82	TR50	5.22	9.95	10.42	10.51	10.71	0.061950	2.41	2.17	10.79	1.71
Rio3	Rio3	195.82	TR100	5.58	9.95	10.43	10.52	10.73	0.058957	2.42	2.31	10.94	1.68
Rio3	Rio3	195.82	TR200	5.95	9.95	10.44	10.53	10.74	0.056394	2.44	2.44	11.10	1.66
Rio3	Rio3	195.82	TR500	6.48	9.95	10.46	10.55	10.76	0.053539	2.45	2.65	11.48	1.63
Rio3	Rio3	190	TR50	5.22	9.87	10.32	10.33	10.45	0.022839	1.60	3.27	14.54	1.07
Rio3	Rio3	190	TR100	5.58	9.87	10.33	10.34	10.47	0.023654	1.66	3.37	14.61	1.09
Rio3	Rio3	190	TR200	5.95	9.87	10.34	10.35	10.49	0.024613	1.72	3.46	14.67	1.12
Rio3	Rio3	190	TR500	6.48	9.87	10.34	10.37	10.51	0.026110	1.82	3.58	14.75	1.16
Rio3	Rio3	180.00	TR50	5.22	9.25	9.76	9.86	10.06	0.072334	2.45	2.14	11.94	1.83
Rio3	Rio3	180.00	TR100	5.58	9.25	9.77	9.87	10.08	0.069097	2.47	2.27	12.23	1.80
Rio3	Rio3	180.00	TR200	5.95	9.25	9.78	9.88	10.09	0.066702	2.49	2.40	12.51	1.78
Rio3	Rio3	180.00	TR500	6.48	9.25	9.79	9.89	10.11	0.062452	2.51	2.60	12.94	1.74
Rio3	Rio3	170.00	TR50	5.22	9.08	9.53	9.53	9.63	0.022706	1.38	3.78	21.17	1.03
Rio3	Rio3	170.00	TR100	5.58	9.08	9.54	9.54	9.64	0.023663	1.44	3.89	21.50	1.06
Rio3	Rio3	170.00	TR200	5.95	9.08	9.54	9.55	9.66	0.024790	1.49	3.99	22.24	1.09

HEC-RAS Plan: 1DMuravera_02 Locations: User Defined (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
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Rio3	Rio3	170.00	TR500	6.48	9.08	9.55	9.57	9.67	0.026011	1.57	4.16	23.57	1.12
Rio3	Rio3	164	TR50	5.22	9.07	9.34	9.37	9.46	0.038553	1.52	3.43	24.65	1.29
Rio3	Rio3	164	TR100	5.58	9.07	9.34	9.38	9.47	0.036872	1.54	3.62	26.01	1.27
Rio3	Rio3	164	TR200	5.95	9.07	9.35	9.39	9.48	0.035920	1.57	3.81	26.75	1.27
Rio3	Rio3	164	TR500	6.48	9.07	9.36	9.40	9.49	0.035450	1.62	4.05	27.77	1.27
Rio3	Rio3	156.5	TR50	5.22	8.56	8.89	8.95	9.07	0.072894	1.88	2.78	23.10	1.73
Rio3	Rio3	156.5	TR100	5.58	8.56	8.89	8.96	9.08	0.074995	1.94	2.87	23.35	1.76
Rio3	Rio3	156.5	TR200	5.95	8.56	8.90	8.96	9.10	0.075419	1.99	2.99	24.40	1.78
Rio3	Rio3	156.5	TR500	6.48	8.56	8.90	8.97	9.12	0.074559	2.05	3.18	26.00	1.78
Rio3	Rio3	151	TR50	5.22	8.25	8.67	8.71	8.81	0.029376	1.75	3.33	23.69	1.21
Rio3	Rio3	151	TR100	5.58	8.25	8.68	8.72	8.83	0.028806	1.78	3.57	26.66	1.20
Rio3	Rio3	151	TR200	5.95	8.25	8.68	8.72	8.84	0.028978	1.82	3.75	26.89	1.21
Rio3	Rio3	151	TR500	6.48	8.25	8.69	8.74	8.86	0.029571	1.89	3.98	27.37	1.23
Rio3	Rio3	146.60	TR50	5.22	7.97	8.46	8.53	8.67	0.030327	2.21	3.04	22.13	1.29
Rio3	Rio3	146.60	TR100	5.58	7.97	8.47	8.55	8.69	0.030873	2.27	3.20	22.81	1.31
Rio3	Rio3	146.60	TR200	5.95	7.97	8.48	8.56	8.70	0.030659	2.30	3.39	23.61	1.31
Rio3	Rio3	146.60	TR500	6.48	7.97	8.49	8.57	8.72	0.030902	2.36	3.64	24.60	1.32
Rio3	Rio3	137.80	TR50	5.22	7.40	7.60	7.71	8.06	0.242843	3.00	1.74	17.66	3.05
Rio3	Rio3	137.80	TR100	5.58	7.40	7.61	7.72	8.08	0.232191	3.03	1.85	17.91	3.01
Rio3	Rio3	137.80	TR200	5.95	7.40	7.61	7.73	8.09	0.225763	3.07	1.94	18.14	2.98
Rio3	Rio3	137.80	TR500	6.48	7.40	7.62	7.74	8.12	0.214732	3.11	2.09	18.74	2.94
Rio3	Rio3	129	TR50	5.22	7.09	7.41	7.41	7.50	0.021253	1.34	3.98	23.70	1.00
Rio3	Rio3	129	TR100	5.58	7.09	7.42	7.42	7.51	0.021780	1.38	4.12	23.86	1.02
Rio3	Rio3	129	TR200	5.95	7.09	7.42	7.43	7.53	0.022397	1.43	4.25	24.01	1.04
Rio3	Rio3	129	TR500	6.48	7.09	7.43	7.45	7.54	0.022911	1.49	4.46	24.90	1.06