AUTORITA' DI BACINO DEL FIUME PO

REGIONE LIGURIA

Città Metropolitana di Genova

VARIANTE PTC VBP BACINI PADANI

Accordo di Pianificazione ai sensi dell'art. 57 della L.R. 36/1997
tra Autorità di bacino del fiume Po Regione Liguria e Provincia di Genova

V2 – Verifiche idrauliche (T. STURA) Risultati modelli idraulici

Aggiornamento aree inondabili Campo Ligure a seguito degli interventi realizzati sui torrenti Ponzema e Stura.

Approvazione con Deliberazione del Consiglio Metropolitano n.14 del 24/04/2024

PROGETTO **Codice : 1.2/17/04**	VARIANTE AL PIANO TERRITORIALE DI COORDINAMENTO DELLA PROVINCIA DI GENOVA CON VALORE ED EFFETTI DEL PIANO DI BACINO PER LA PARTE DEL TERRITORIO PROVINCIALE COMPRESA NEL BACINO DEL FIUME PO

N. /Titolo elaborato :	**V2 – Verifiche idrauliche (T. STURA) Risultati modelli idraulici**
Nome file :	**V2_VerificheIdrauliche_Stura.pdf**

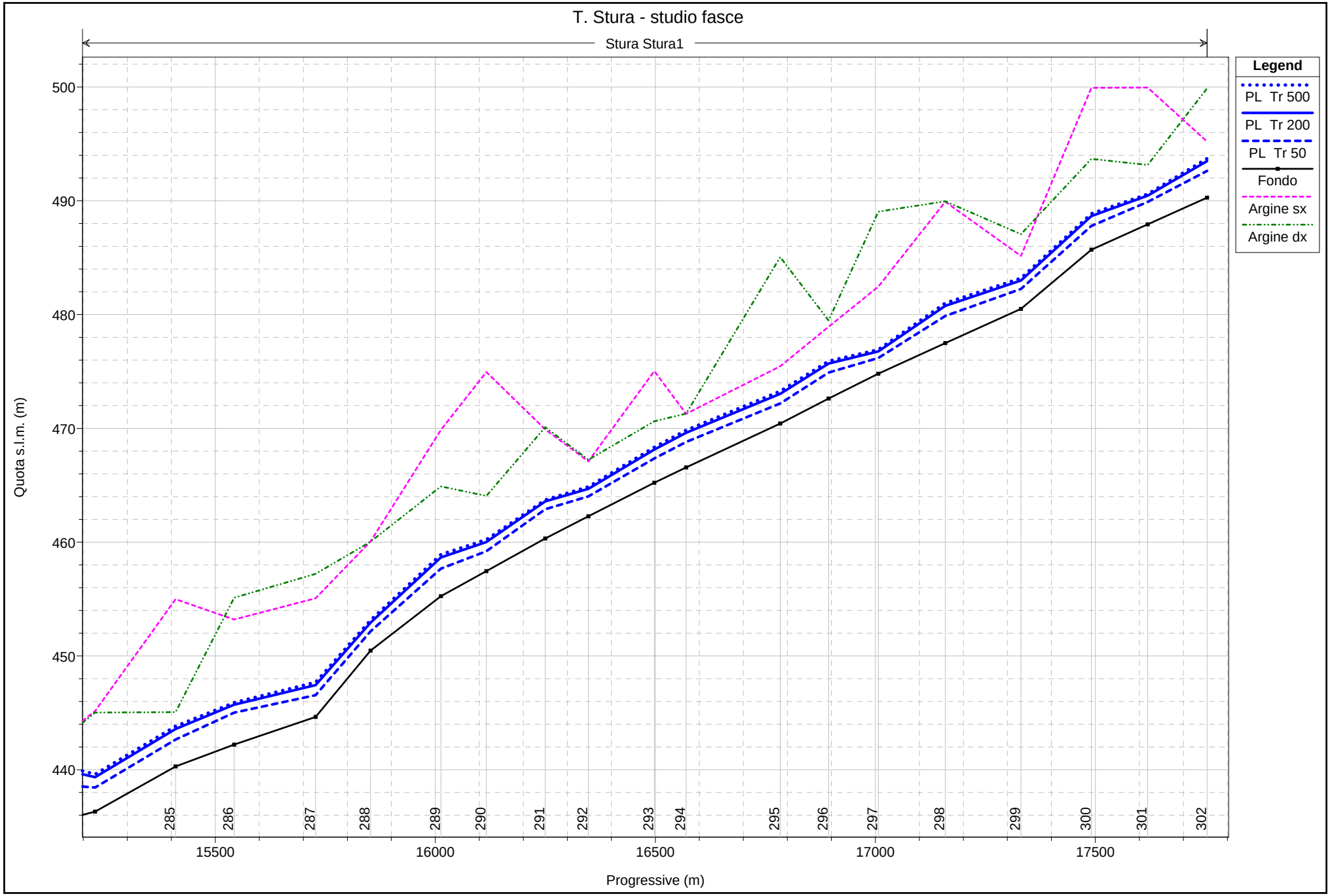
REV	DATA	OGGETTO	REDATTO	VERIFICATO	APPROVATO
01	06/2010	emissione	R.L. – U.O. Assetto del territorio C.M. – Ufficio Pianificazione strategica	Il Direttore	Il Direttore
02	08/2016	Fasce Masone			
03	02/2022	Fasce Mongrosso			
04	03/2024	Fasce Campo Ligure			

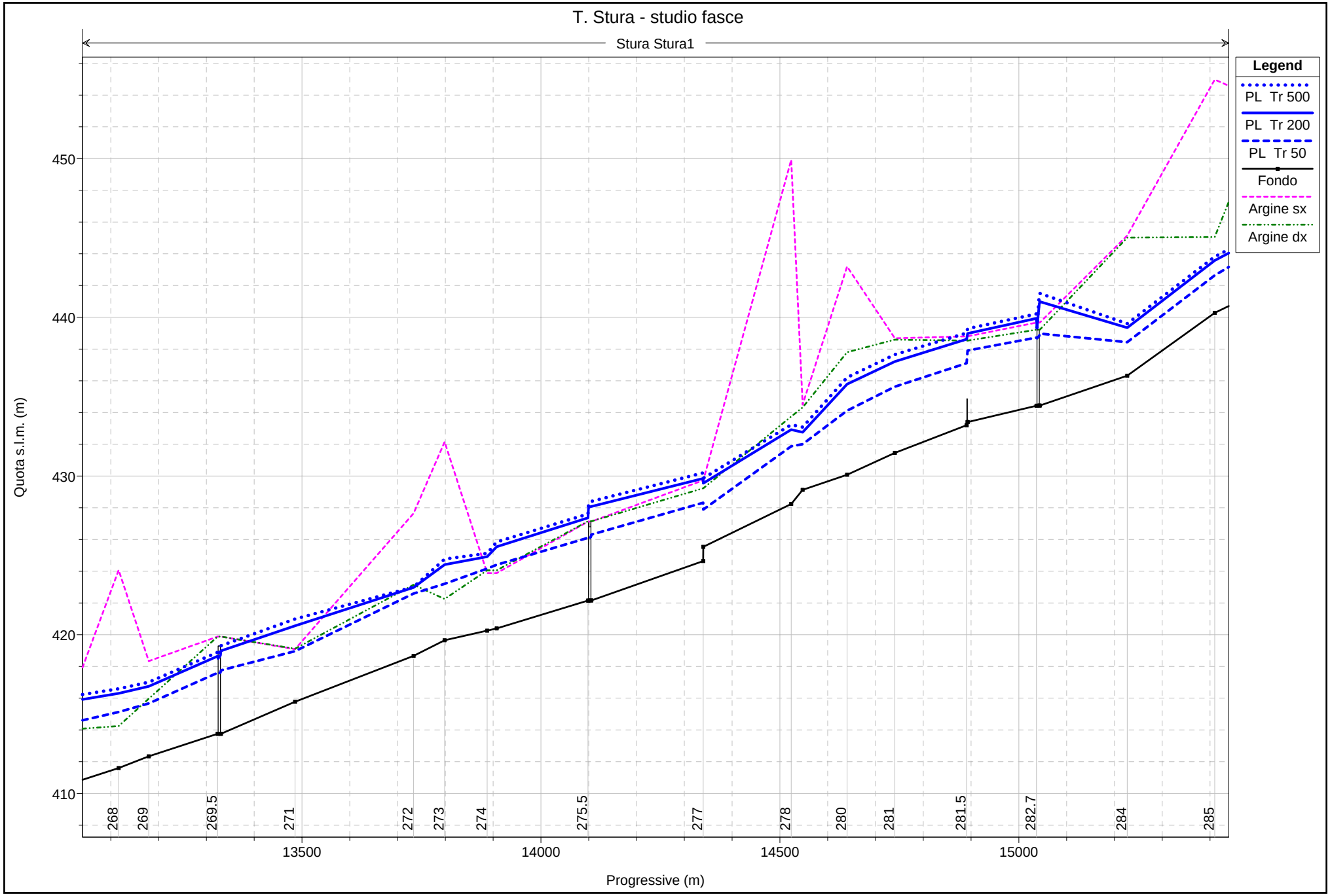
Indice

1. Torrente Stura
2. Torrente Vezzulla
3. Torrente Ponzema
4. Rio Angassino
5. Rio Mongrosso
6. Torrente Berlino
7. Torrente Gargassa

Torrente Stura

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati


T. Stura - studio fasce
Stura Stura1
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine sx
Argine dx
Quota s.l.m. (m)
500
490
480
470
460
450
440
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
15500
16000
16500
17000
17500
Progressive (m)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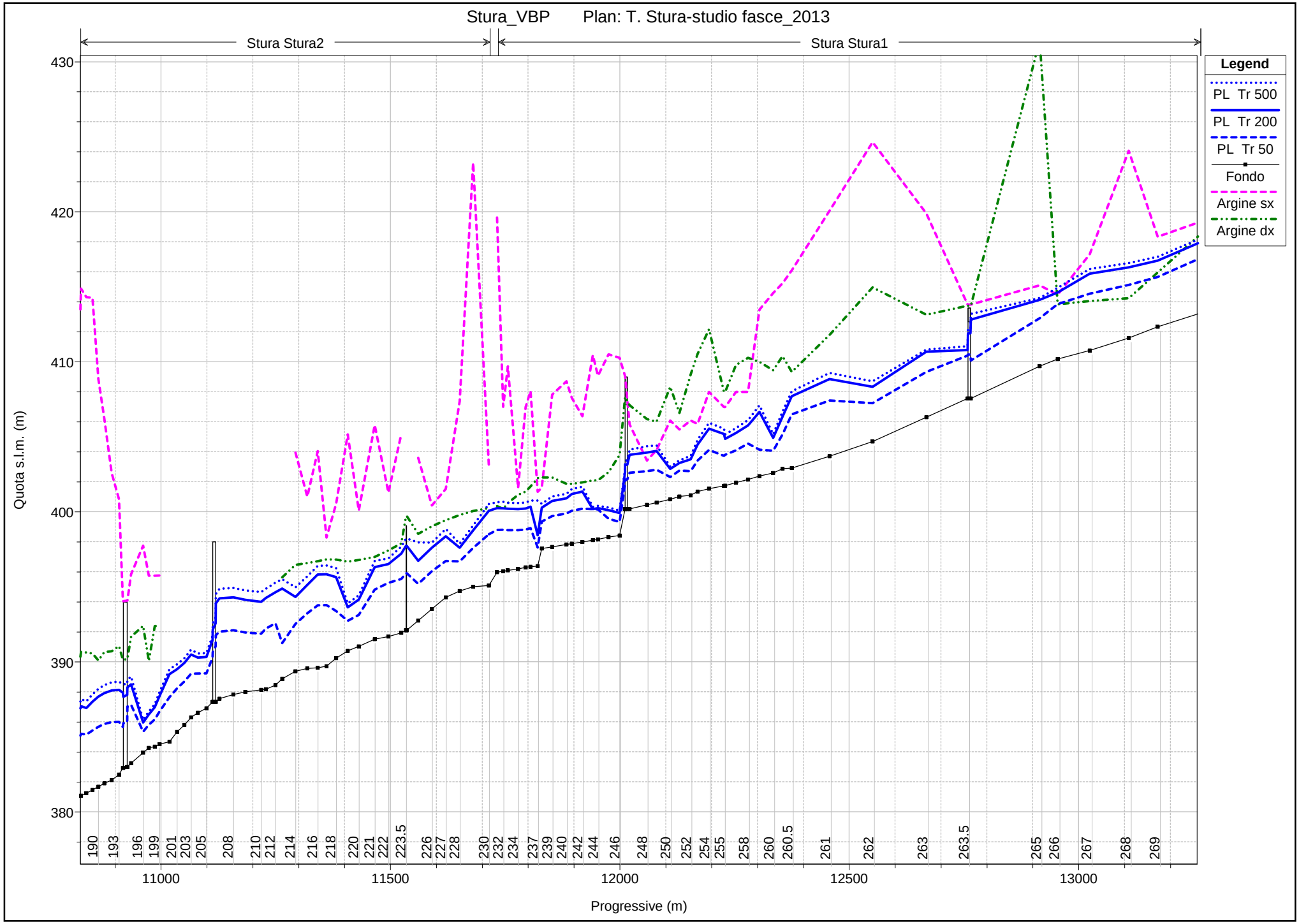
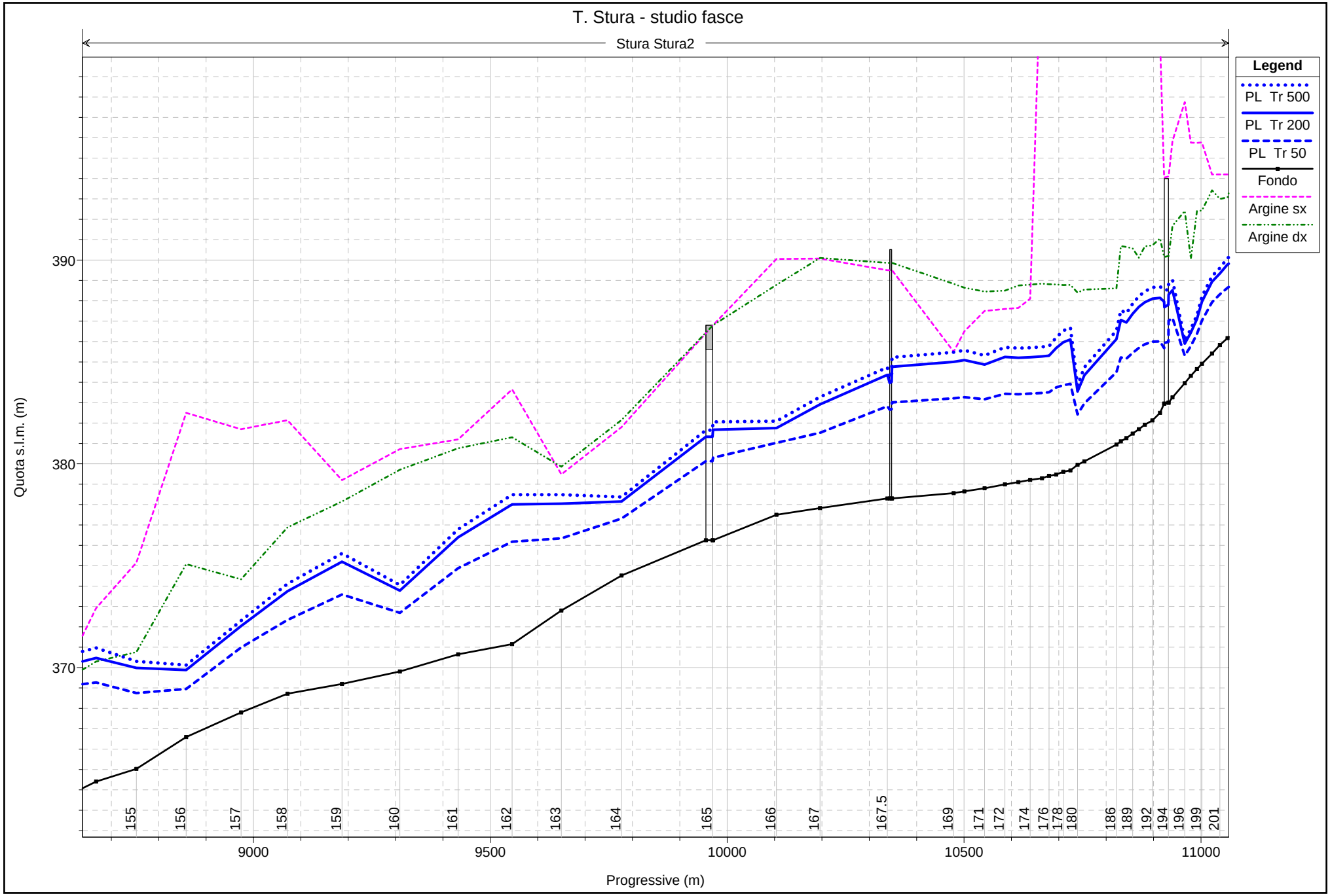
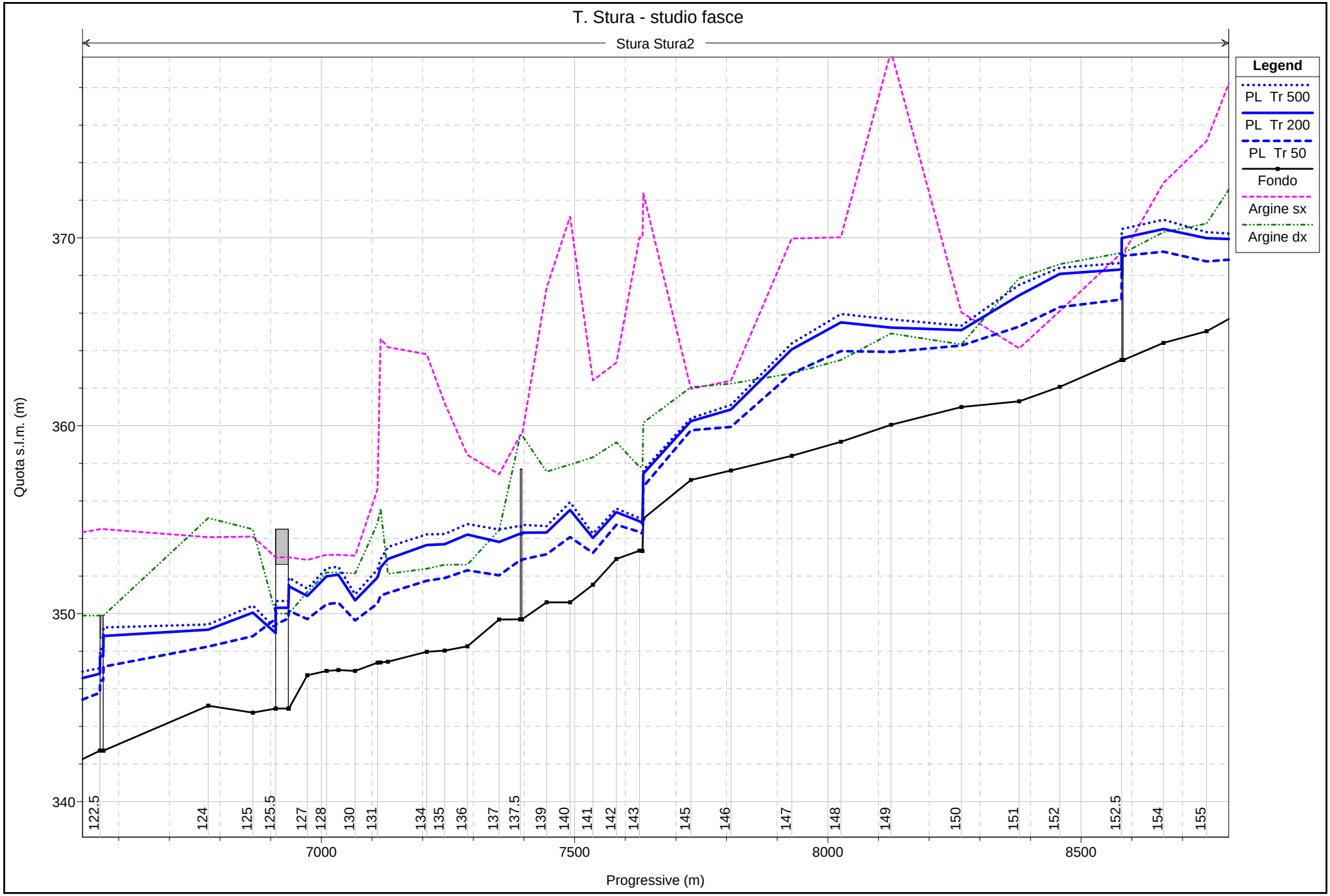
Stura Stura1
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine sx
Argine dx
Quota s.l.m. (m)
450
440
430
420
410
268
269
269.5
271
272
273
274
275.5
277
278
280
281
281.5
282.7
284
285
13500
14000
14500
15000
Progressive (m)


Stura_VBP Plan: T. Stura-studio fasce_2013
Stura Stura2
Stura Stura1
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine sx
Argine dx
Quota s.l.m. (m)
430
420
410
400
390
380
190 193 196 199 201 203 205 208 210 212 214 216 218 220 221 222 223.5 226 227 228 230 232 234 237 239 240 242 244 246 248 250 252 254 255 258 260 260.5 261 262 263 263.5 265 266 267 268 269
11000
11500
12000
12500
13000
Progressive (m)


T. Stura - studio fasce
Stura Stura2
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine sx
Argine dx
Quota s.l.m. (m)
390
380
370
155
156
157
158
159
160
161
162
163
164
165
166
167
167.5
169
171
172
174
176
178
180
186
189
192
194
196
199
201
9000
9500
10000
10500
11000
Progressive (m)


T. Stura - studio fasce
Stura Stura2
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine sx
Argine dx
Quota s.l.m. (m)
370
360
350
340
122.5
124
125
125.5
127
128
130
131
134
135
136
137
137.5
139
140
141
142
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149
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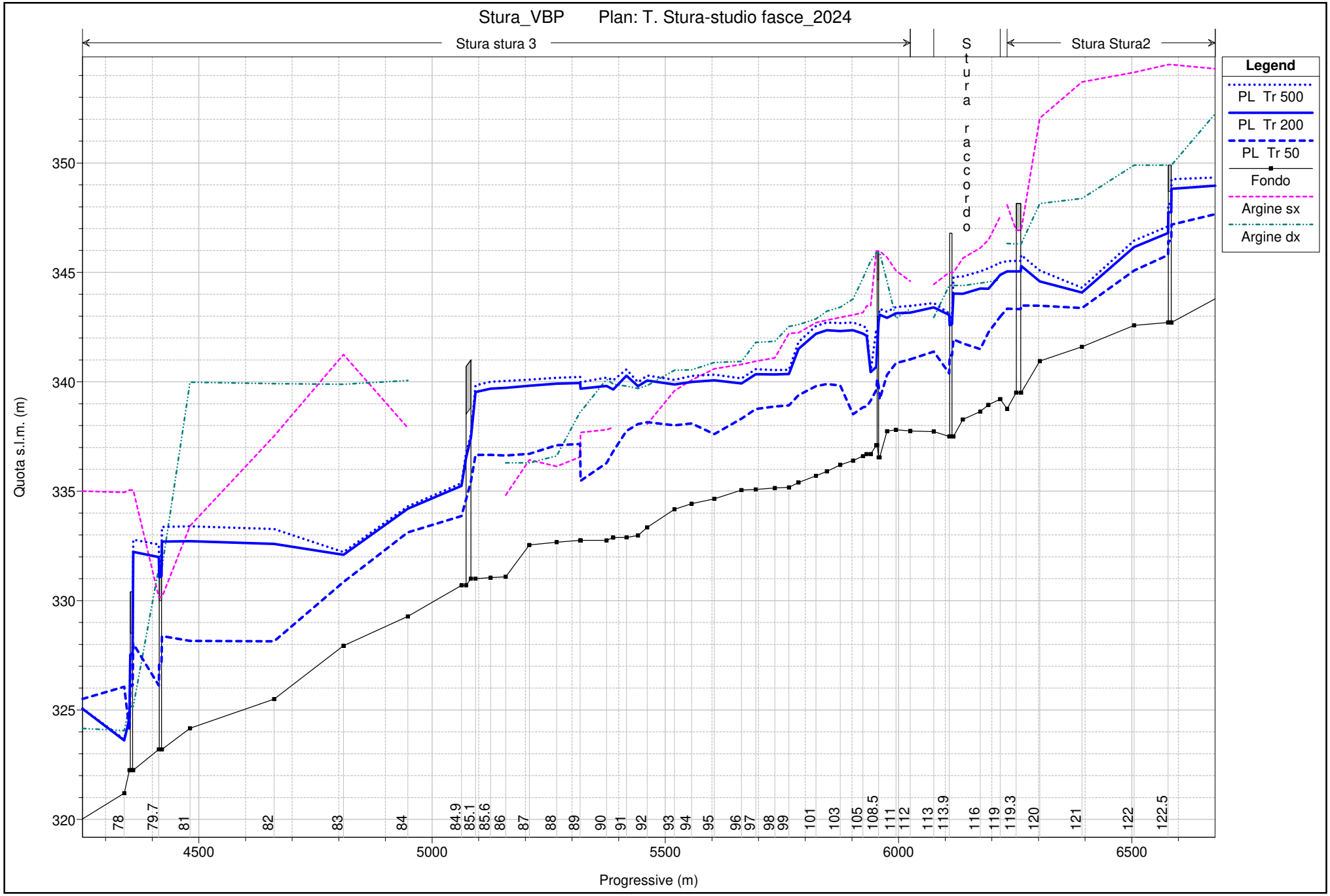
151
152
152.5
154
155
7000
7500
8000
8500
Progressive (m)


Stura_VBP Plan: T. Stura-studio fasce_2024
Stura stura 3
Stura racordo
Stura Stura2
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine sx
Argine dx
Quota s.l.m. (m)
Progressive (m)
320
325
330
335
340
345
350
4500
5000
5500
6000
6500
78
79.7
81
82
83
84
84.9
85.1
85.6
86
87
88
89
90
91
92
93
94
95
96
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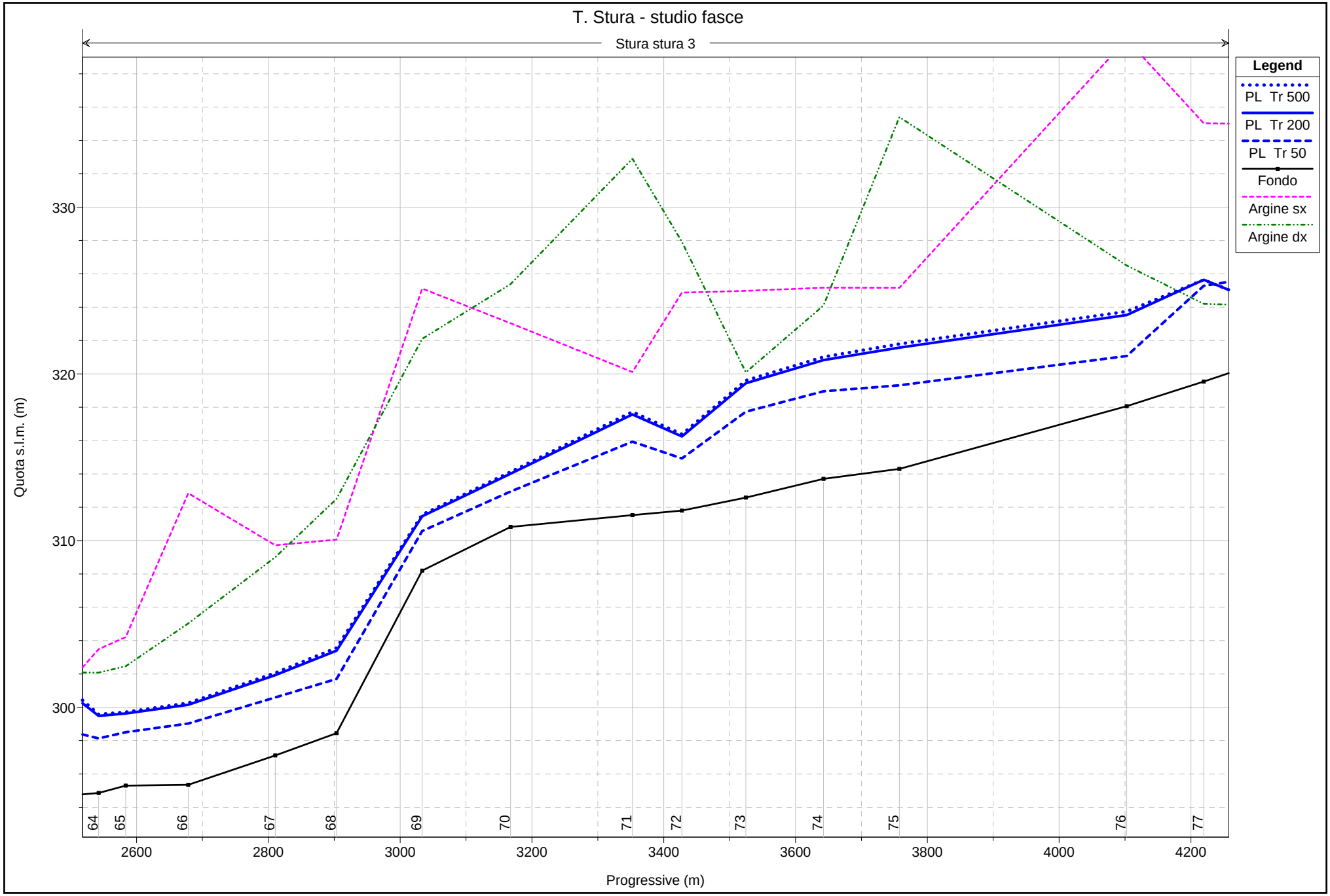
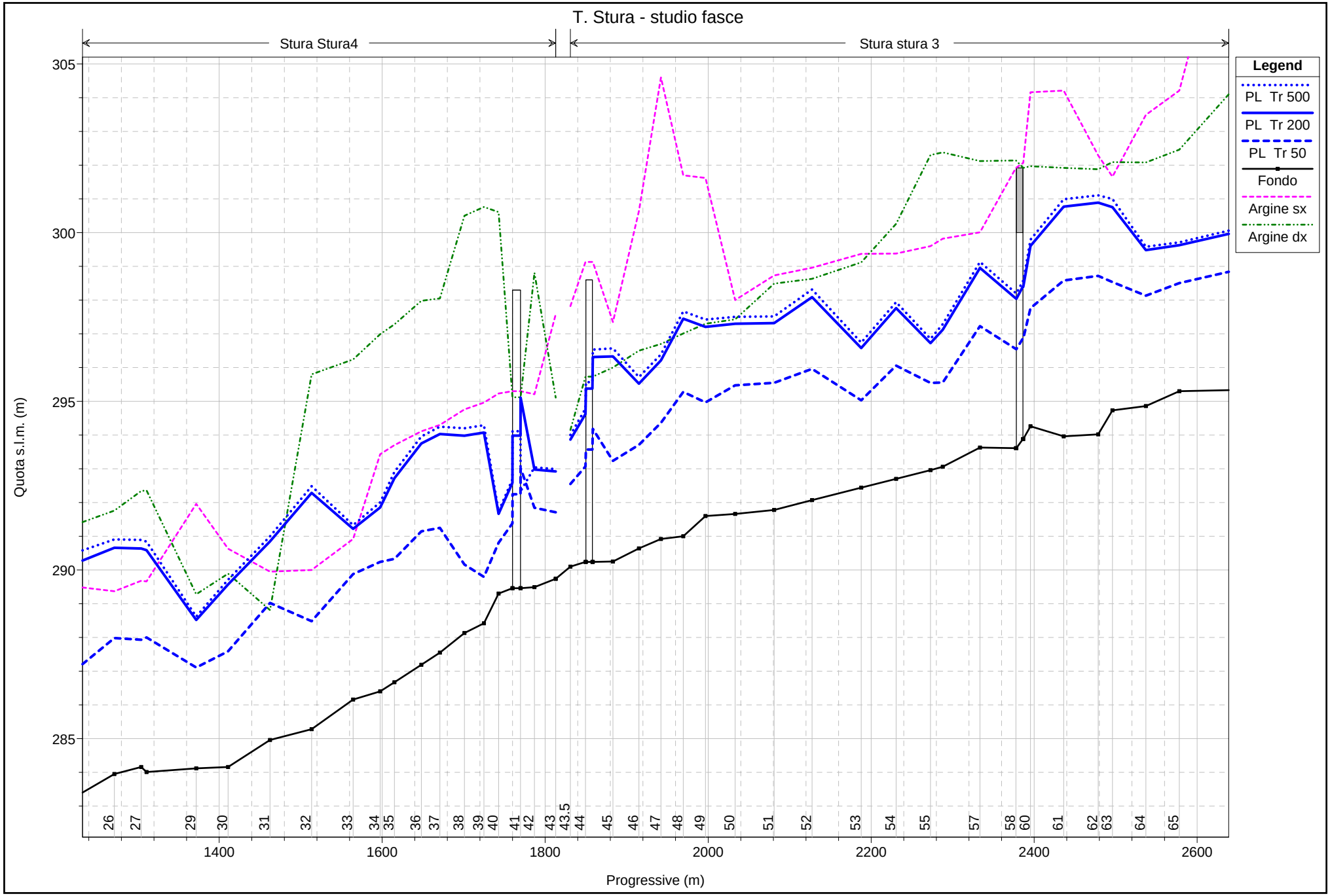
121
122
122.5


T. Stura - studio fasce
Stura stura 3
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine sx
Argine dx
Quota s.l.m. (m)
330
320
310
300
64
65
66
67
68
69
70
71
72
73
74
75
76
77
2600
2800
3000
3200
3400
3600
3800
4000
4200
Progressive (m)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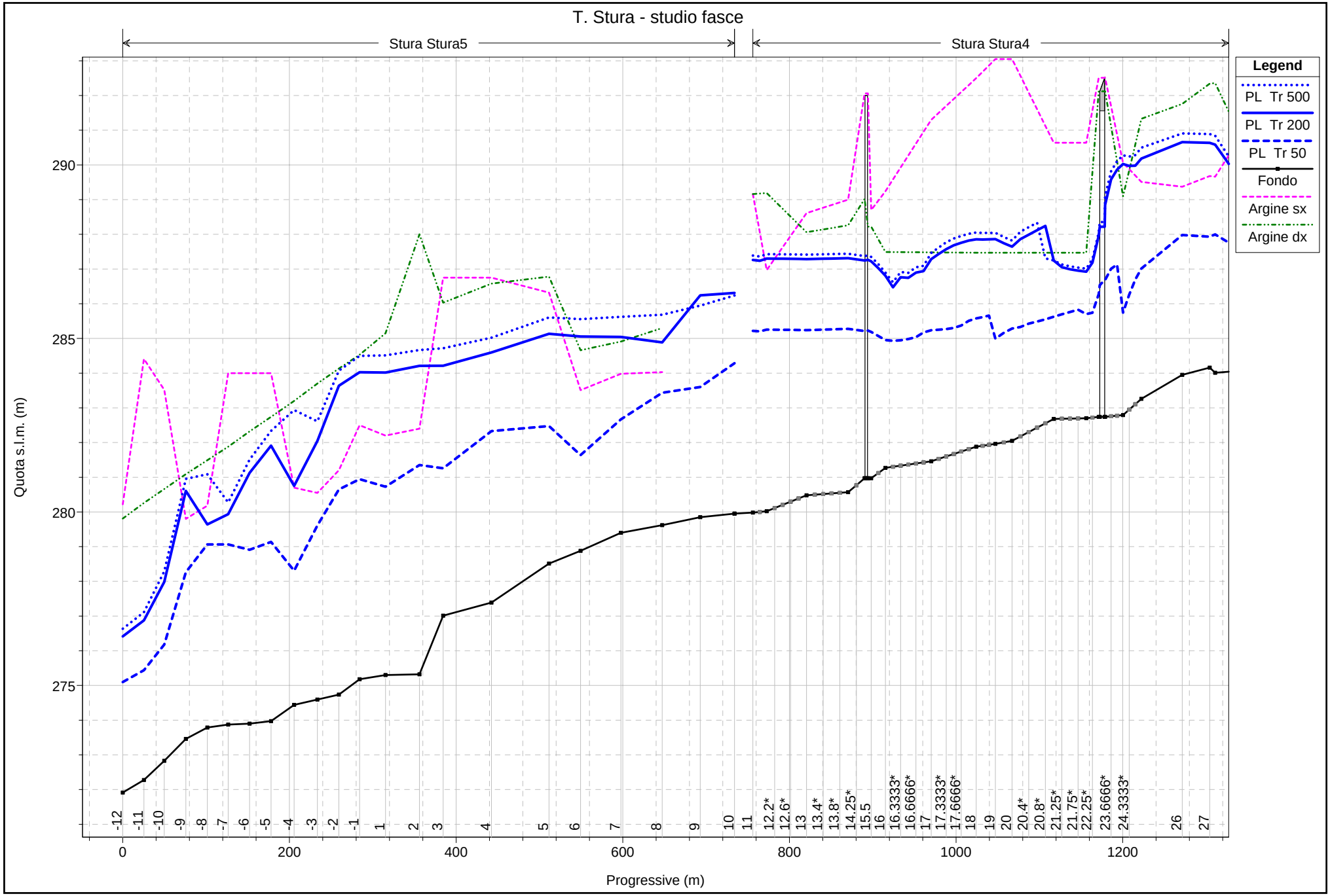
Stura Stura4
Stura stura 3
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine sx
Argine dx
Quota s.l.m. (m)
305
300
295
290
285
26
27
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
43.5
44
45
46
47
48
49
50
51
52
53
54
55
57
58
60
61
62
63
64
65
1400
1600
1800
2000
2200
2400
2600
Progressive (m)


T. Stura - studio fasce
Stura Stura5
Stura Stura4
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine sx
Argine dx
Quota s.l.m. (m)
290
285
280
275
0
200
400
600
800
1000
1200
Progressive (m)
-12
-11
-10
-9
-8
-7
-6
-5
-4
-3
-2
-1
1
2
3
4
5
6
7
8
9
10
11
12.2*
12.6*
13
13.4*
13.8*
14.25*
15.5
16
16.3333*
16.6666*
17
17.3333*
17.6666*
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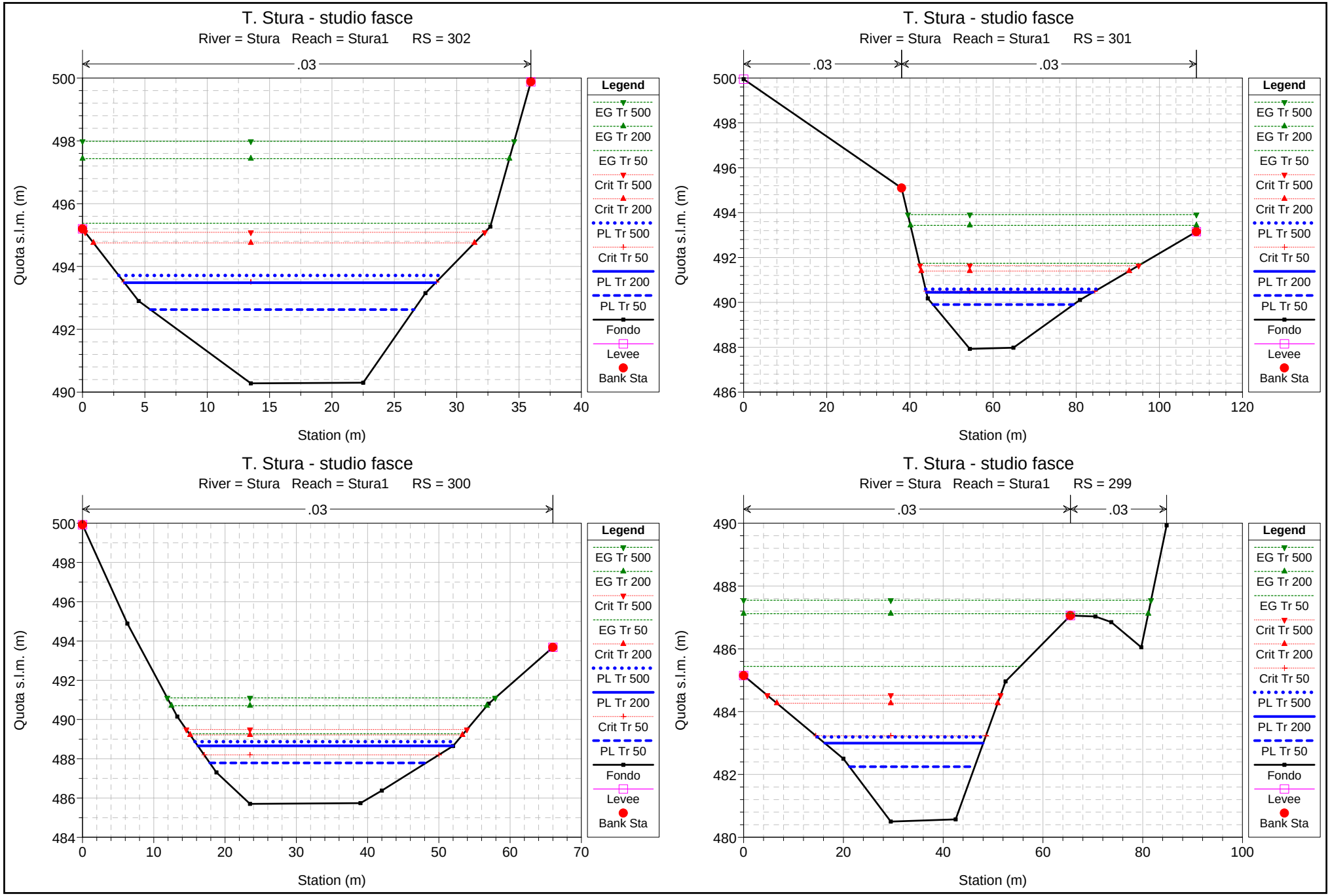
20.4*
20.8*
21.25*
21.75*
22.25*
23.6666*
24.3333*
26
27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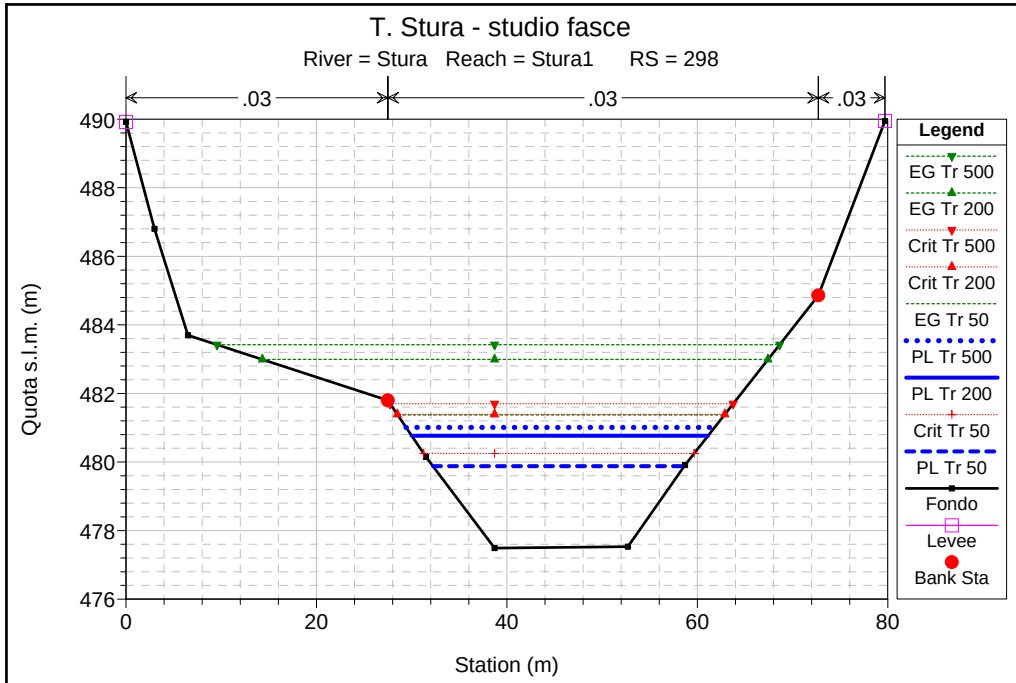
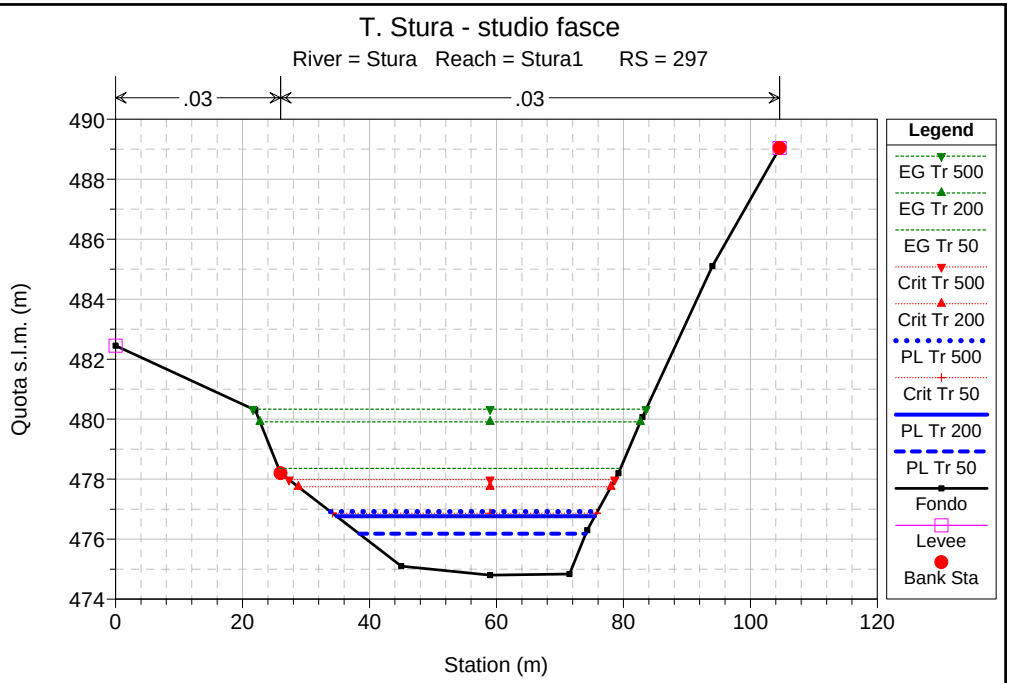
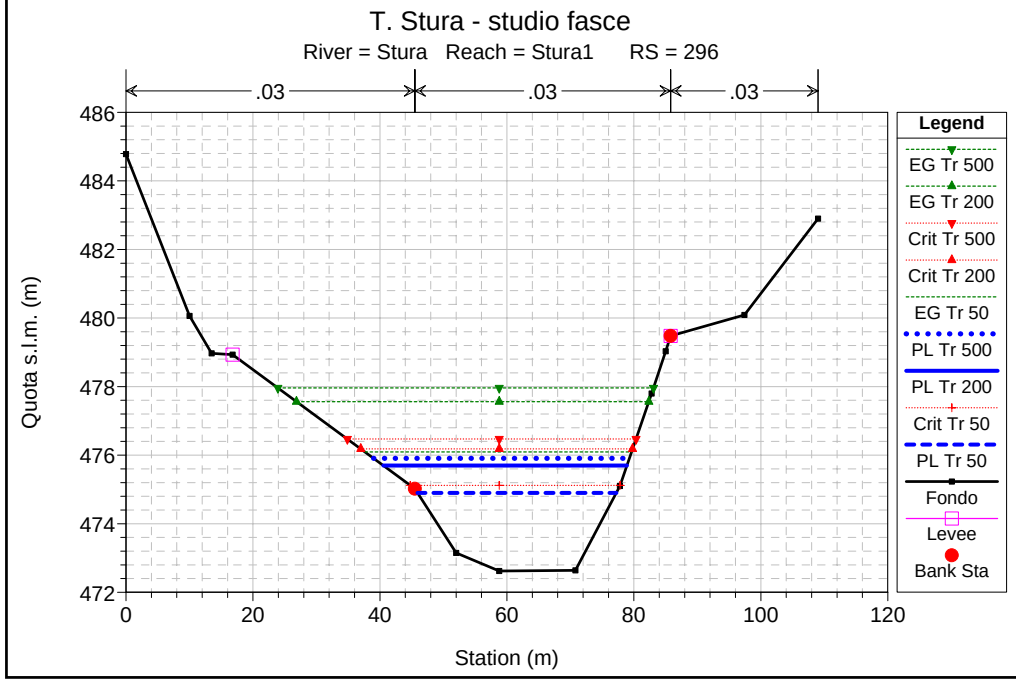
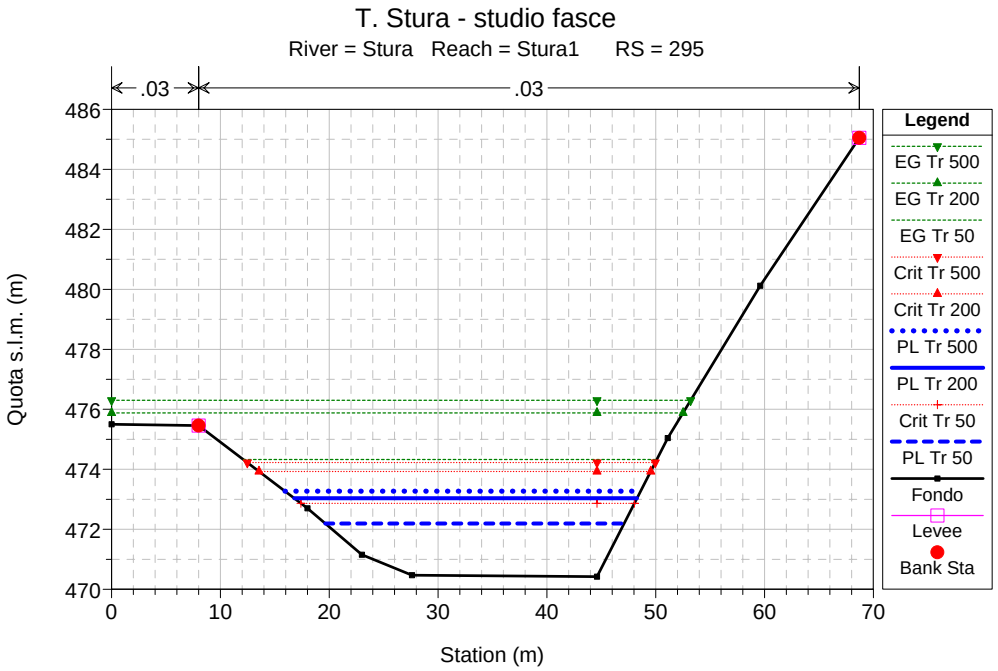
River = Stura Reach = Stura1 RS = 302
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 301
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 300
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 299
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 298
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 297
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 296
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta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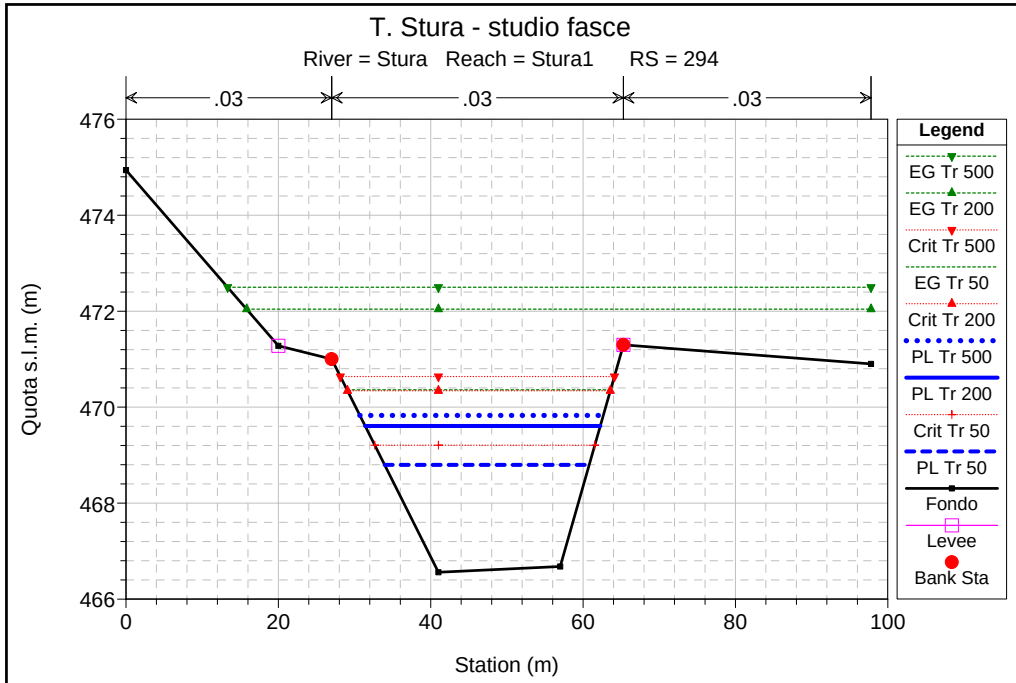
River = Stura Reach = Stura1 RS = 295
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta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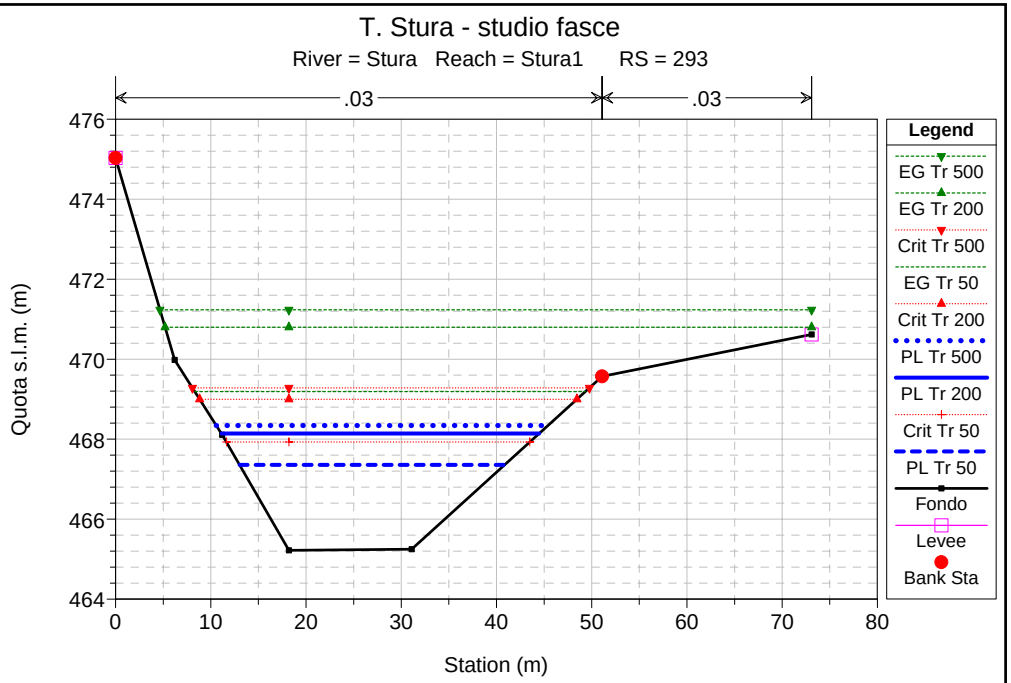
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta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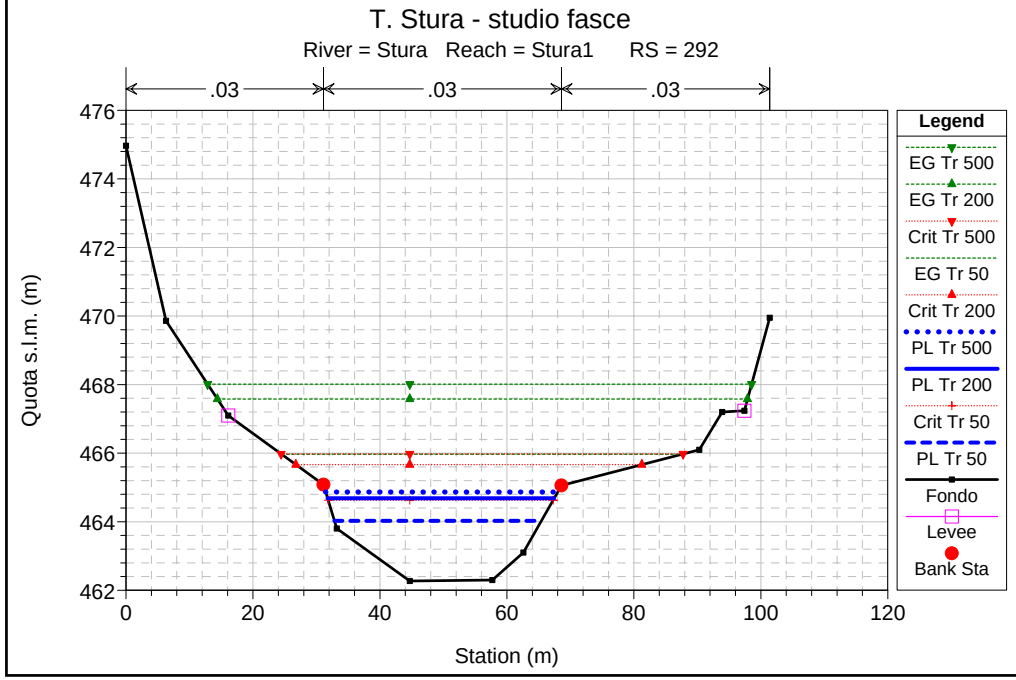
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta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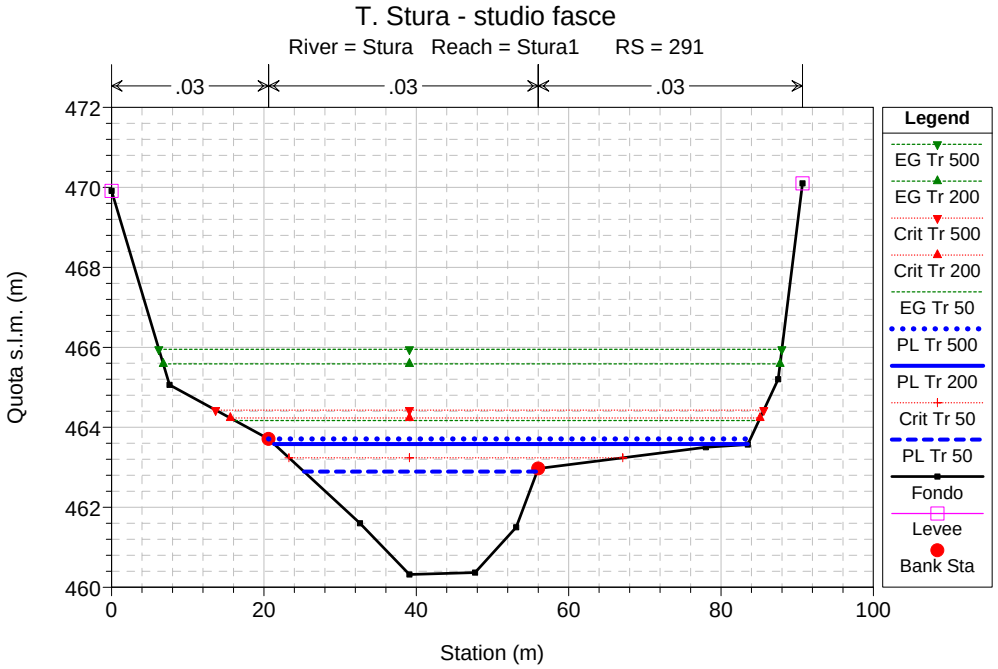
River = Stura Reach = Stura1 RS = 292
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta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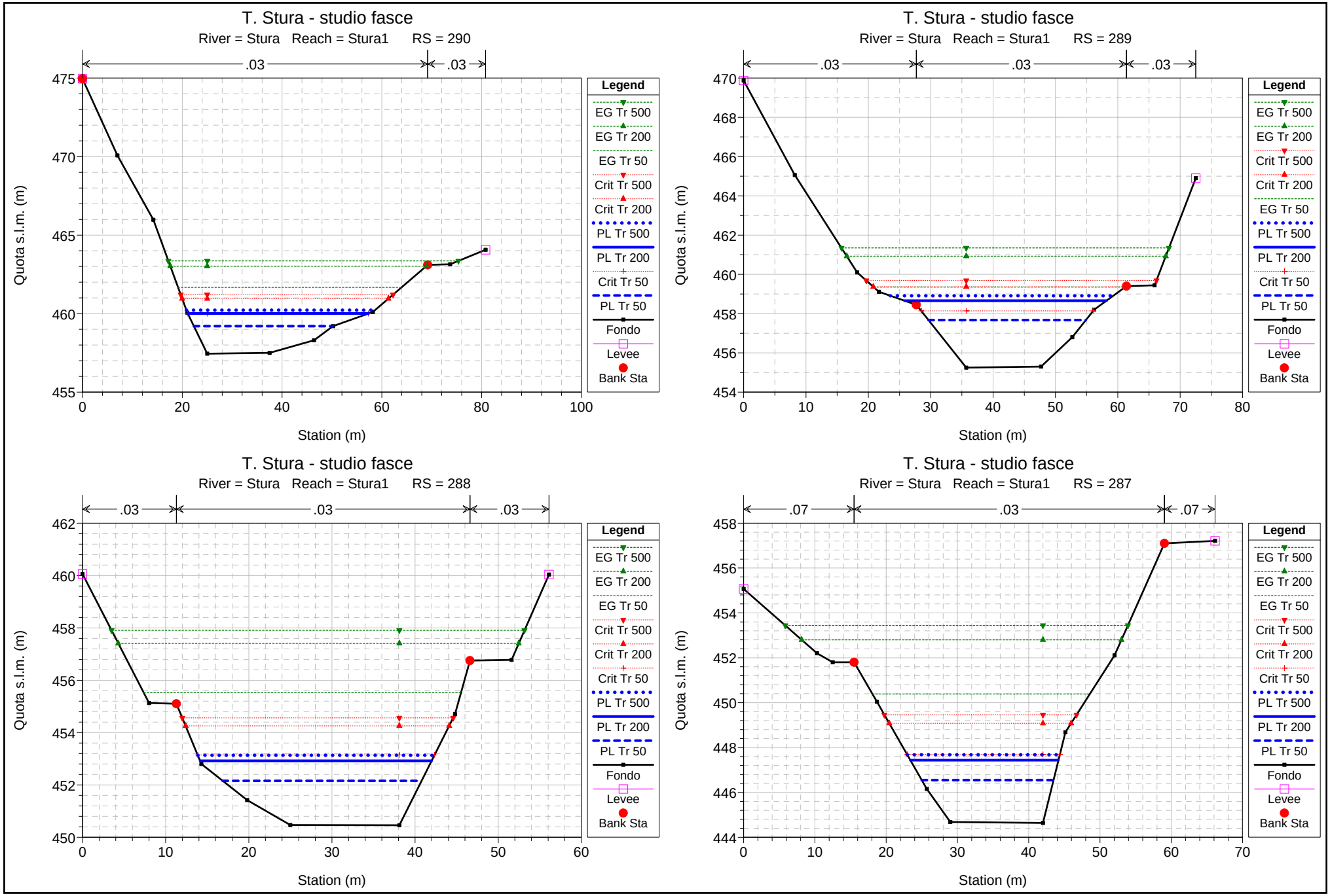
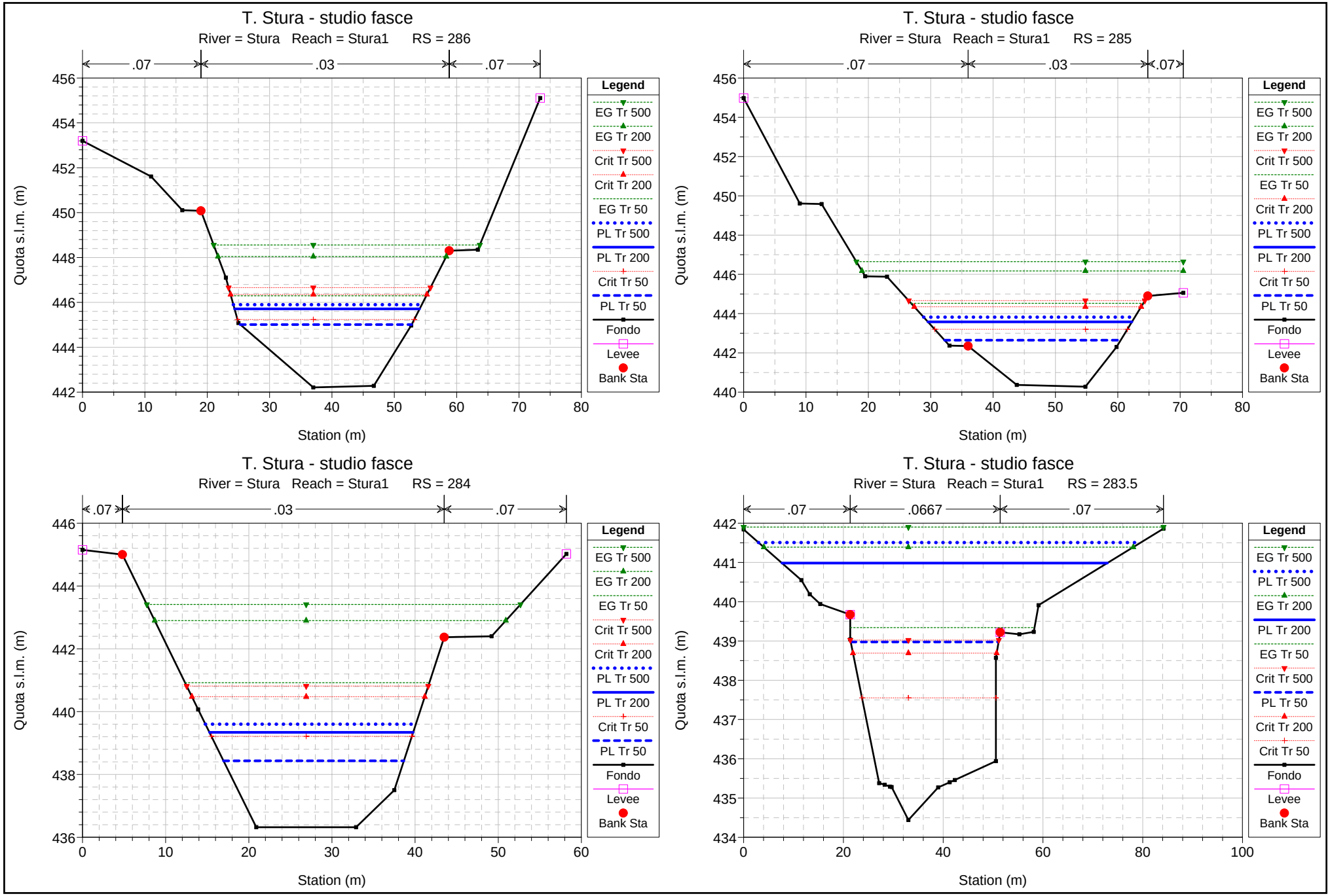
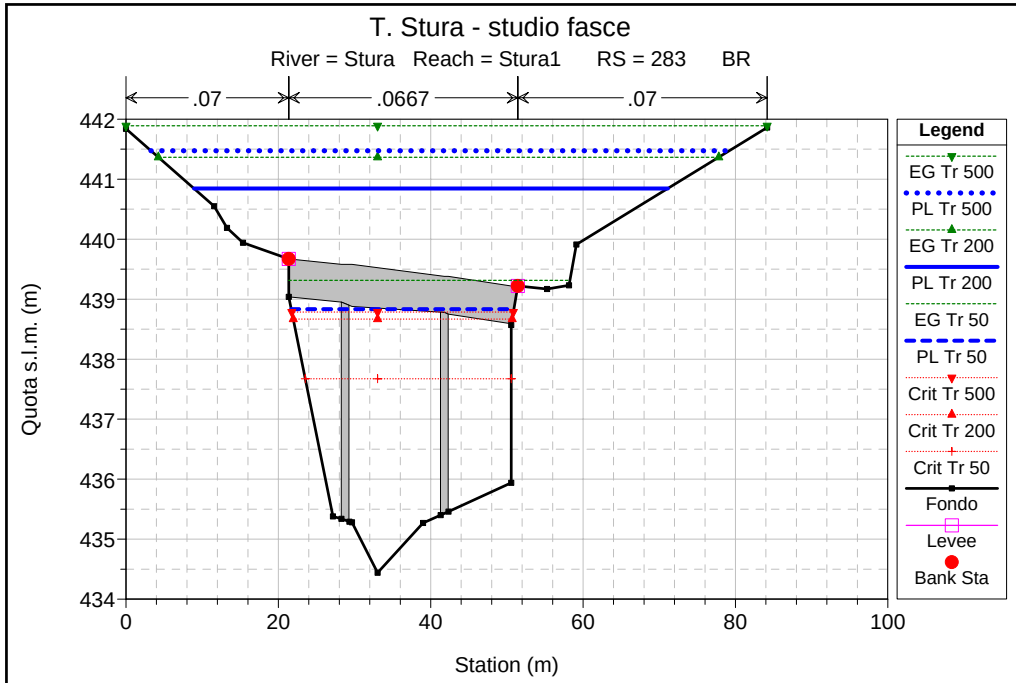
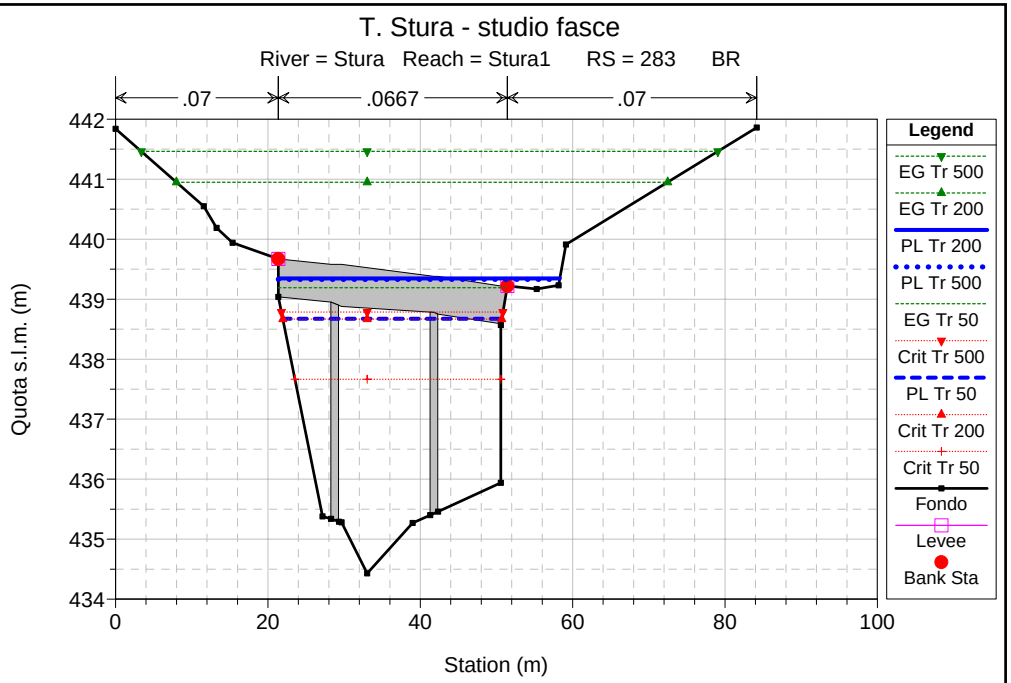
River = Stura Reach = Stura1 RS = 291
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 290
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 289
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 288
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 287
.07
.03
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 286
.07
.03
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 285
.07
.03
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 284
.07
.03
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 283.5
.07
.0667
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 283 BR
.07
.0667
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta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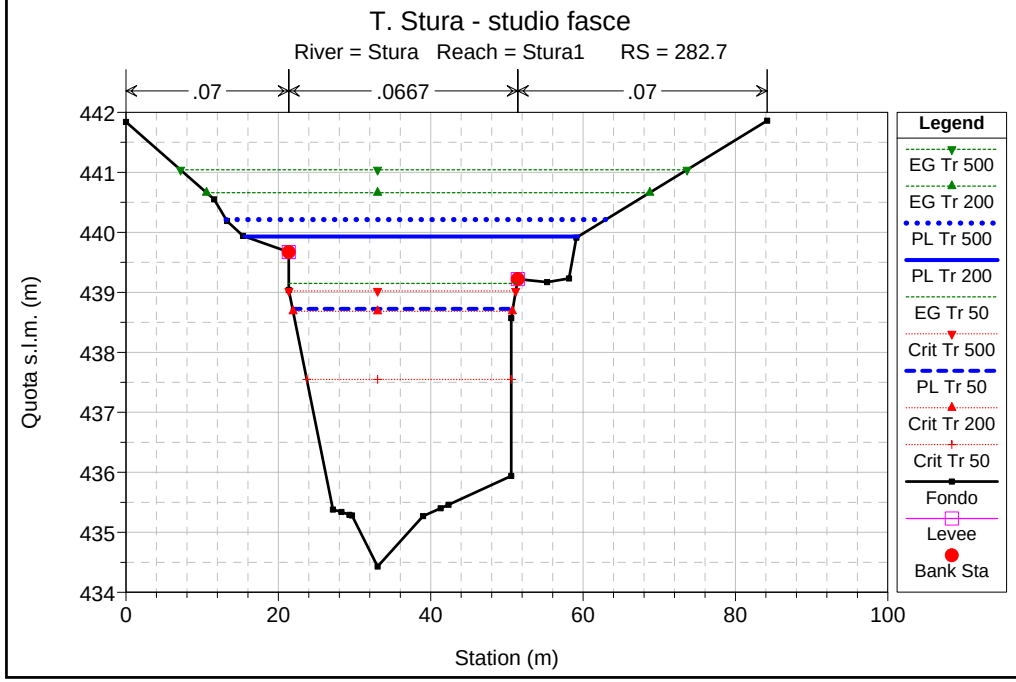
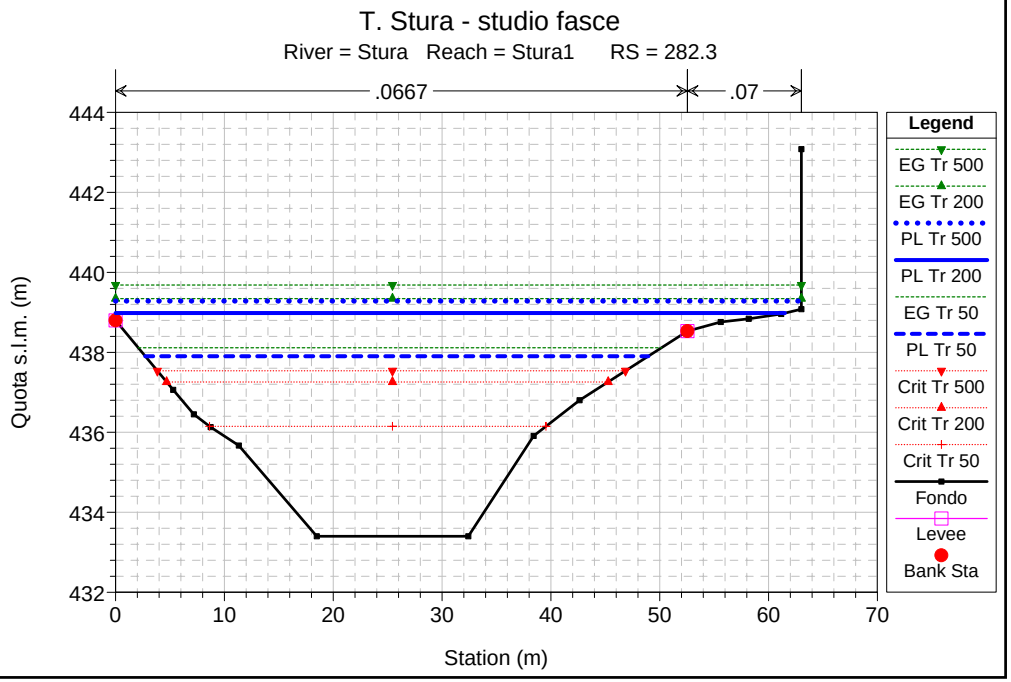
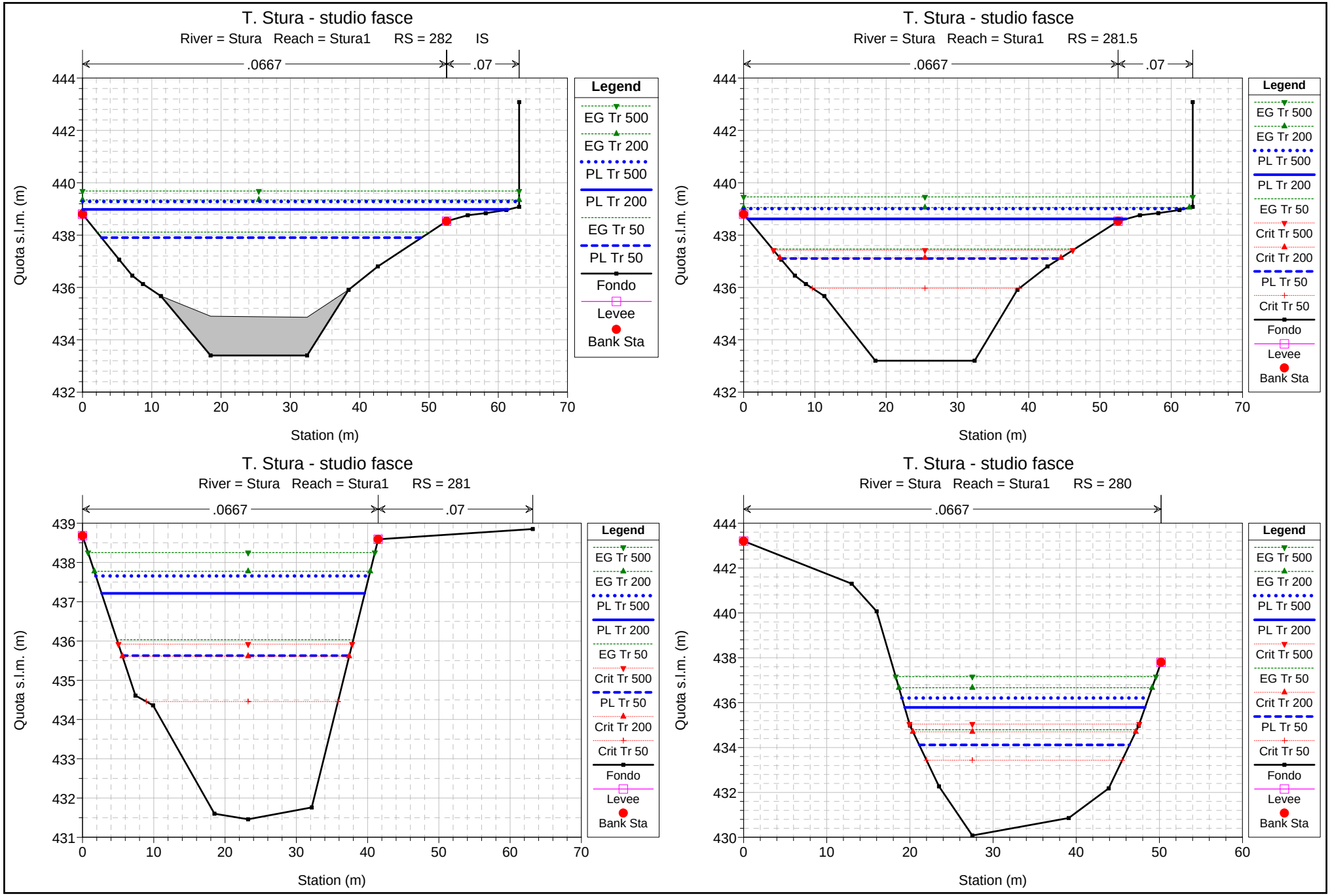
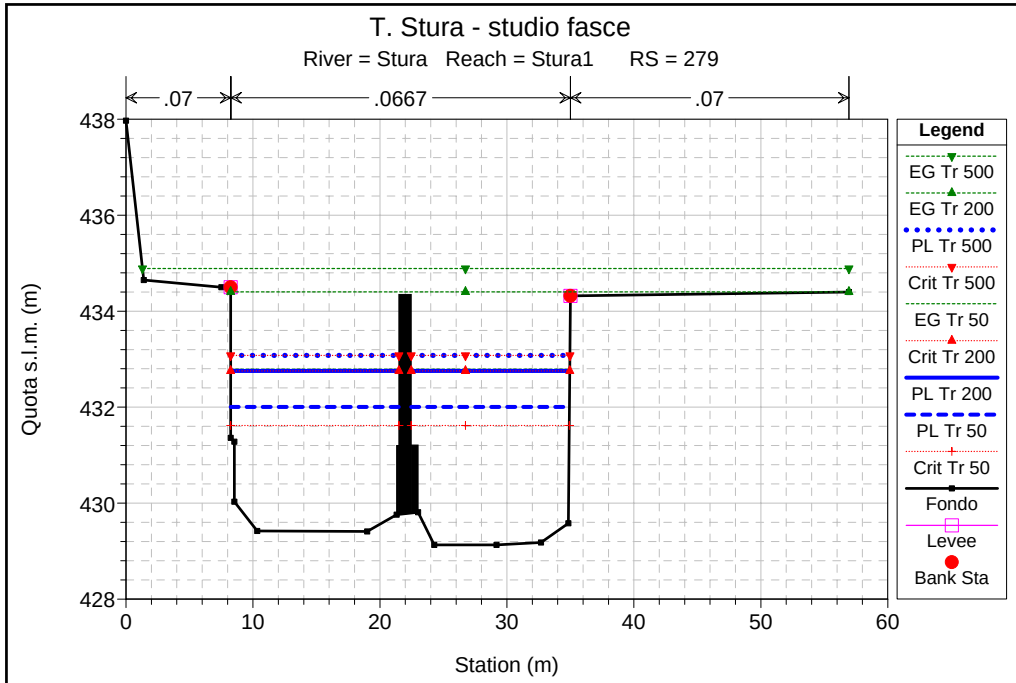
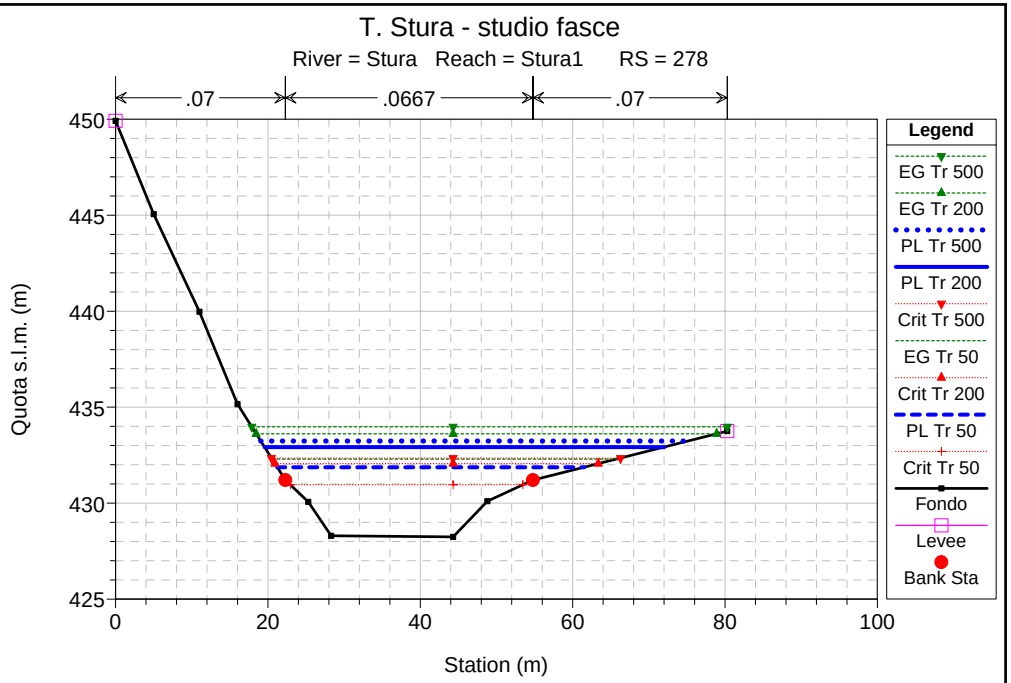
River = Stura Reach = Stura1 RS = 283 BR
.07
.0667
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 200
PL Tr 500
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta

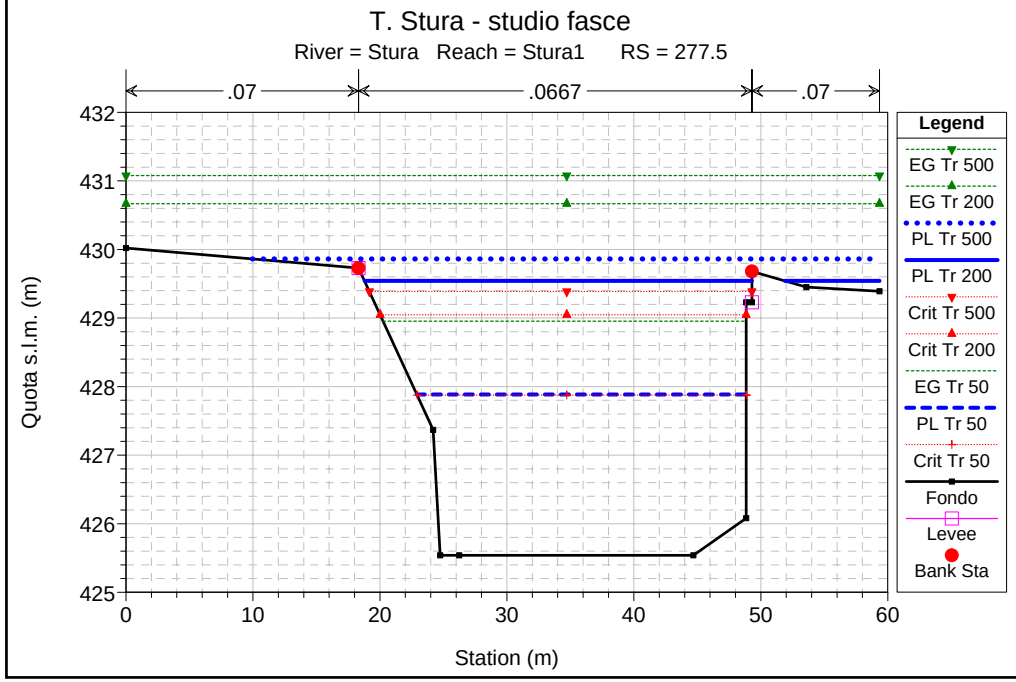

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 282.7
.07
.0667
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta

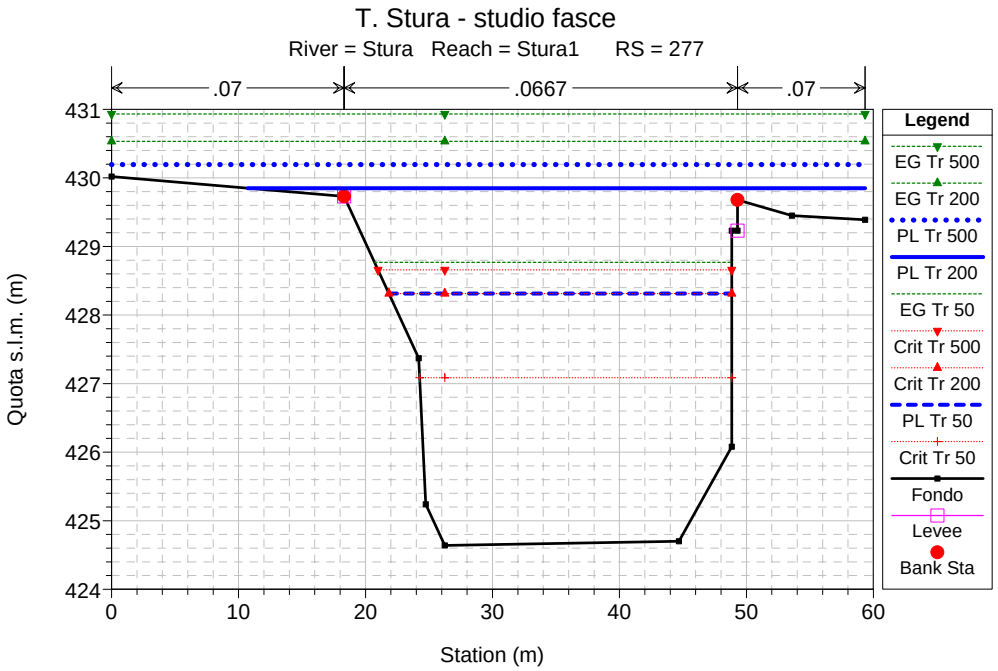

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 282.3
.0667
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta

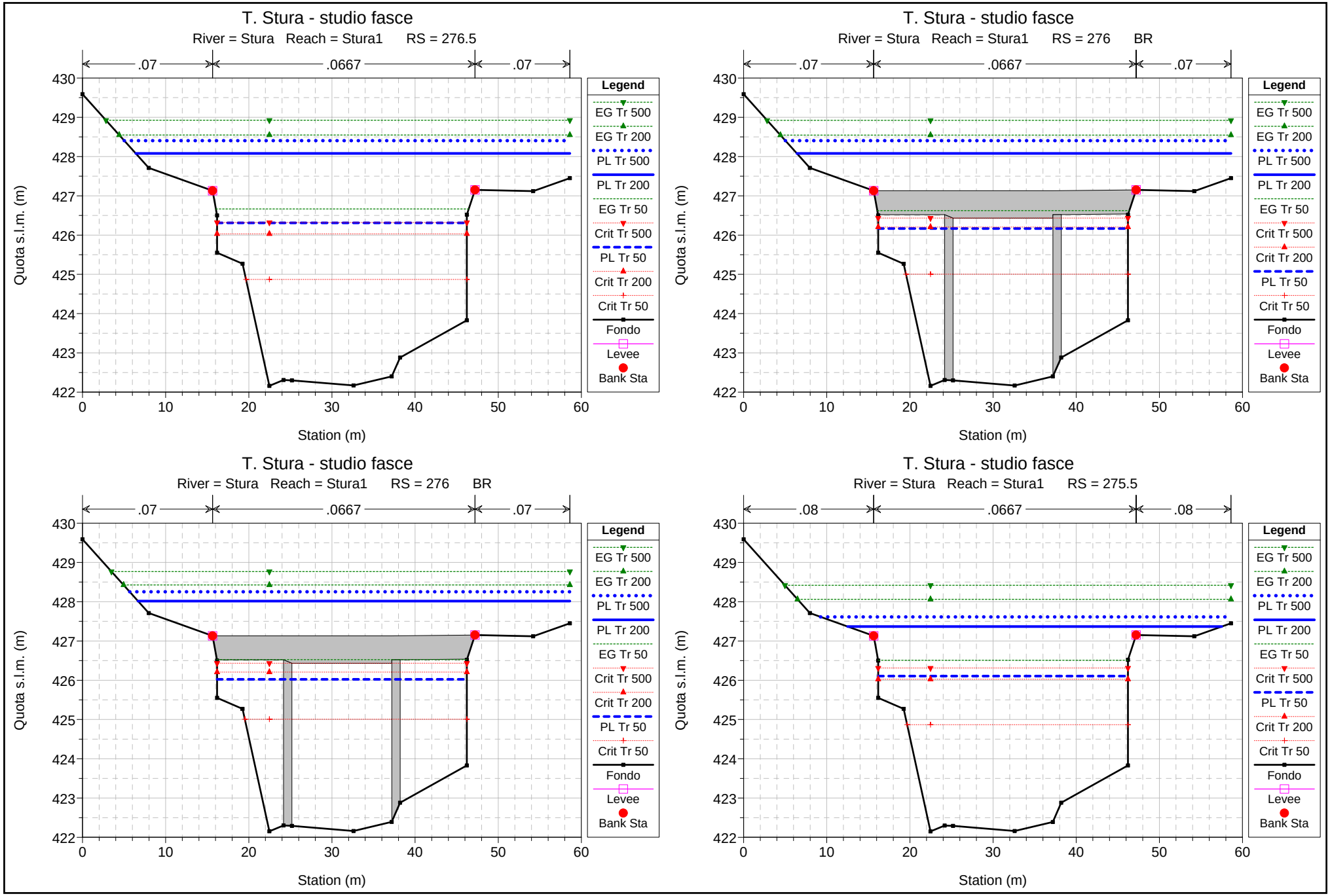

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 282 IS
.0667
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 281.5
.0667
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 281
.0667
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 280
.0667
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

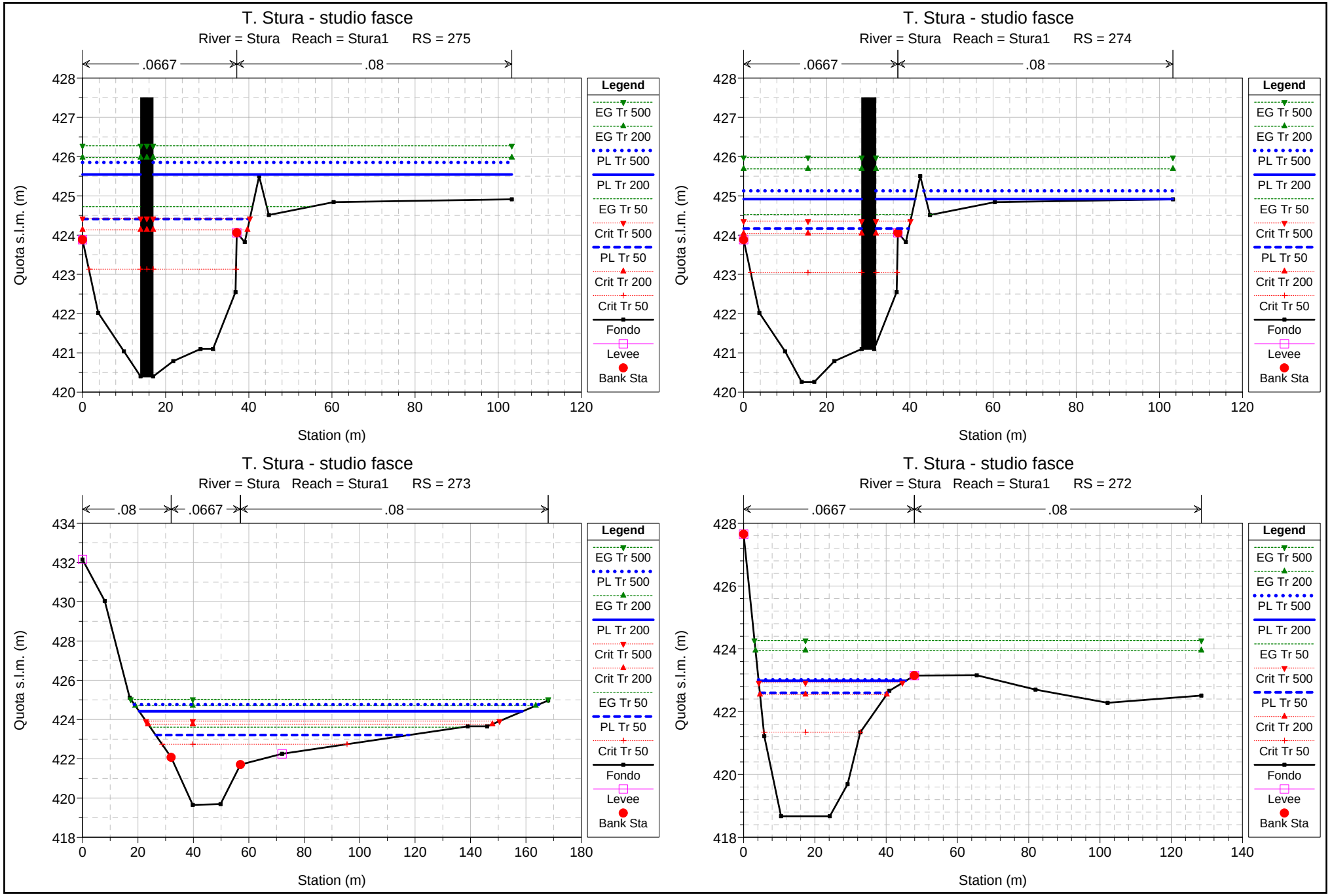

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 279
.07
.0667
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

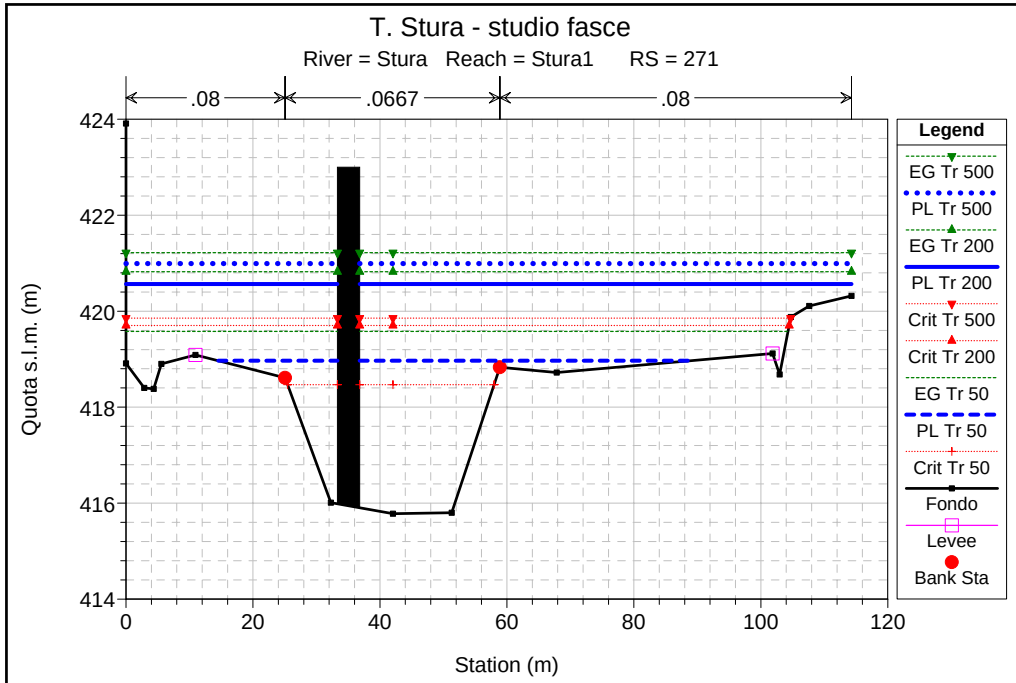

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 278
.07
.0667
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

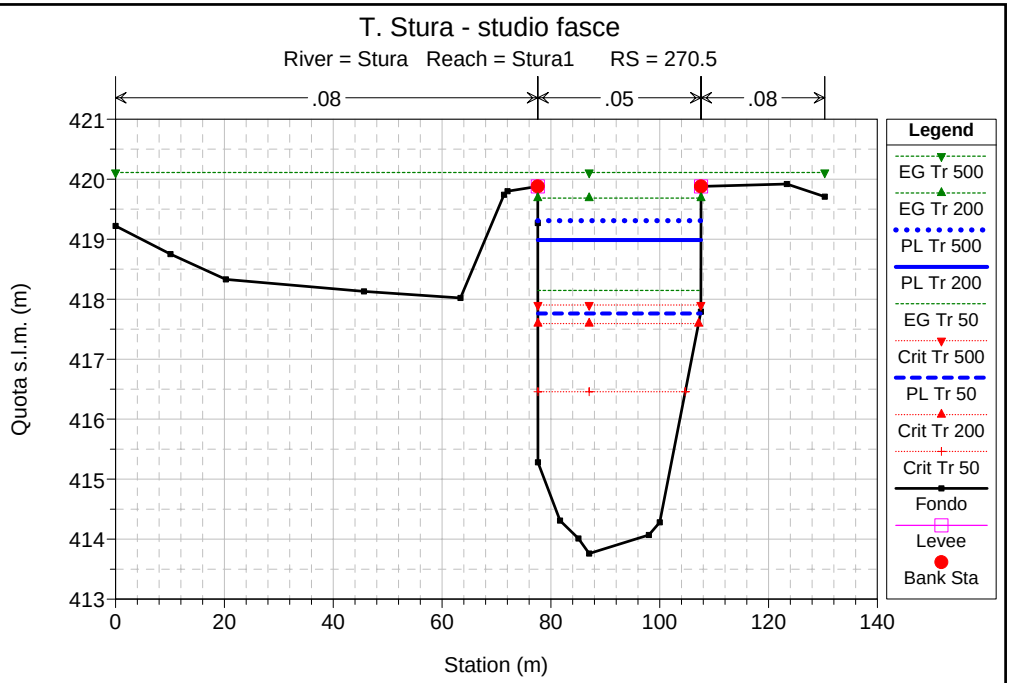

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 277.5
.07
.0667
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

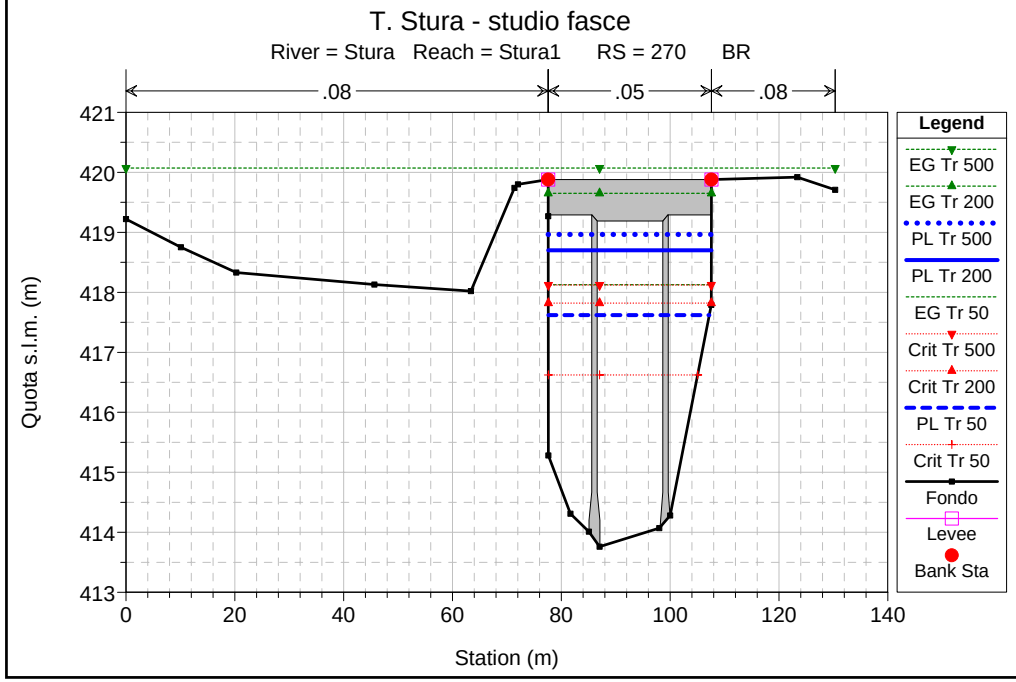

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 277
.07
.0667
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

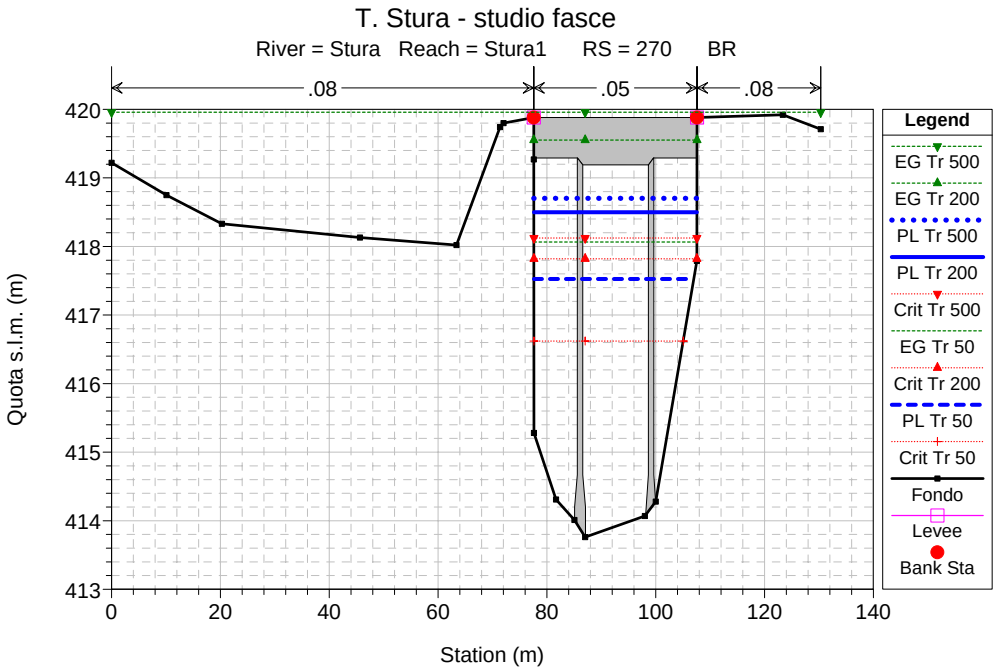

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 276.5
.07
.0667
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 276 BR
.07
.0667
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 276 BR
.07
.0667
.07
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 275.5
.08
.0667
.08
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

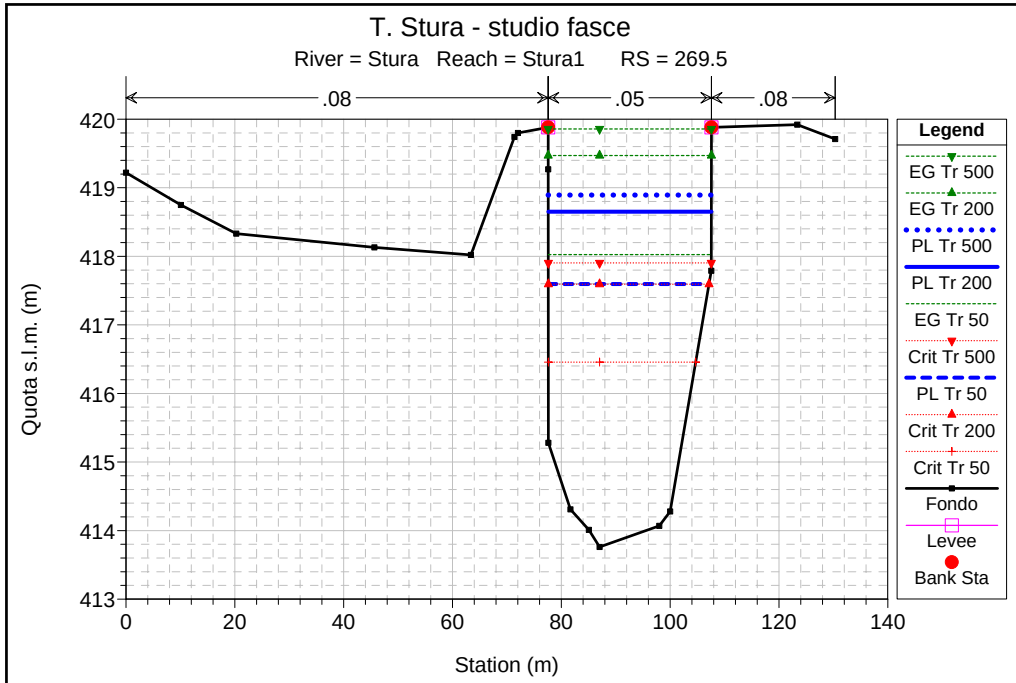

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 275
.0667
.08
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 274
.0667
.08
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 273
.08
.0667
.08
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 272
.0667
.08
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta

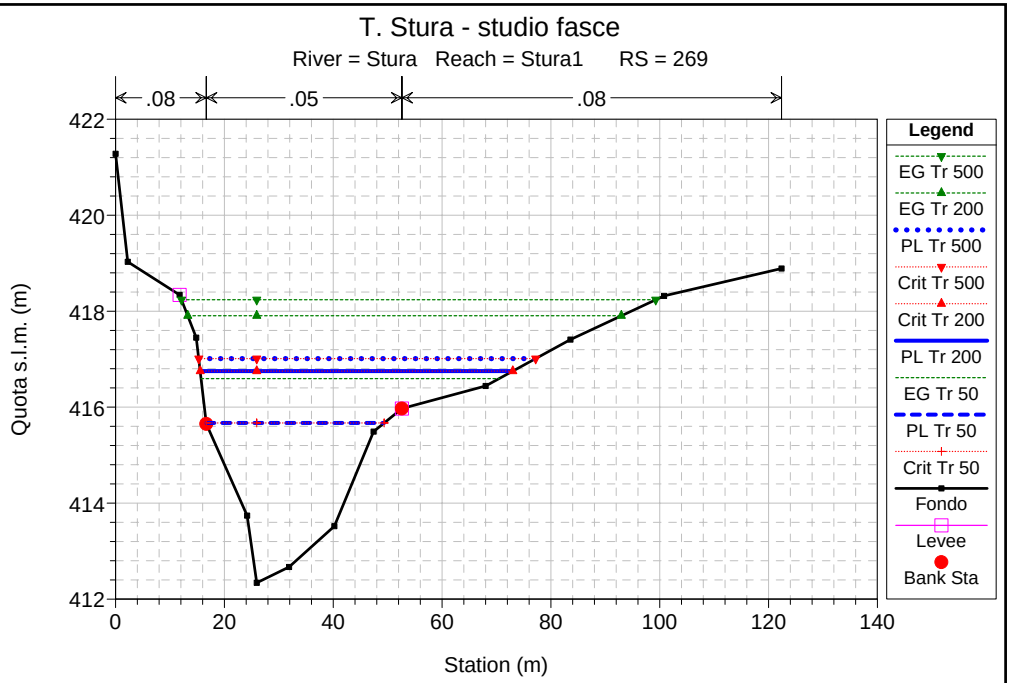

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 271
.08
.0667
.08
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

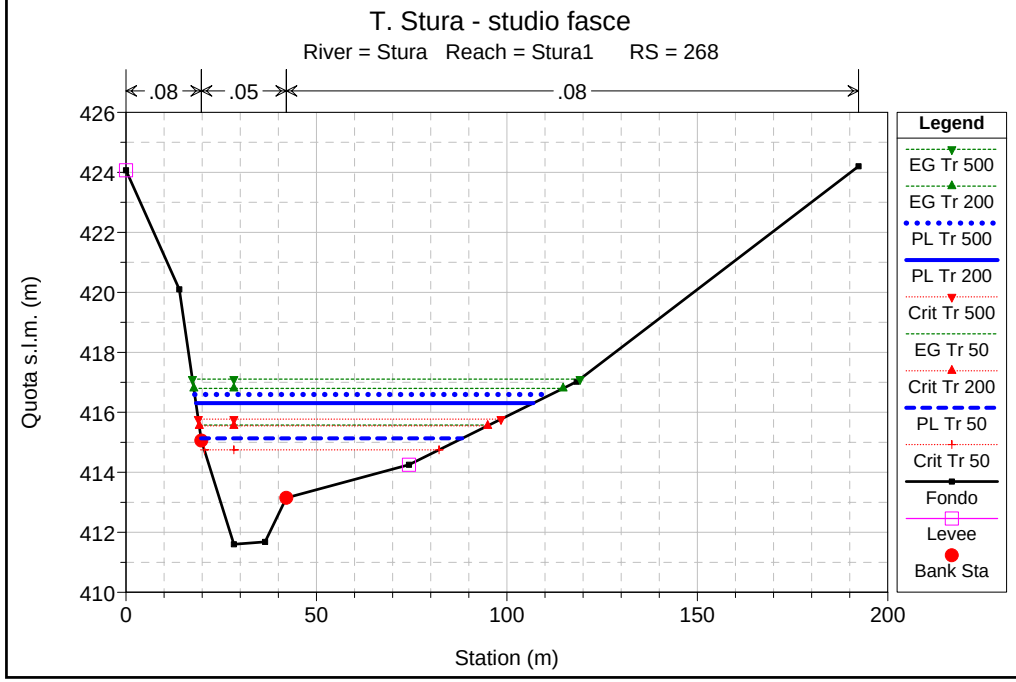

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 270.5
.08
.05
.08
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta

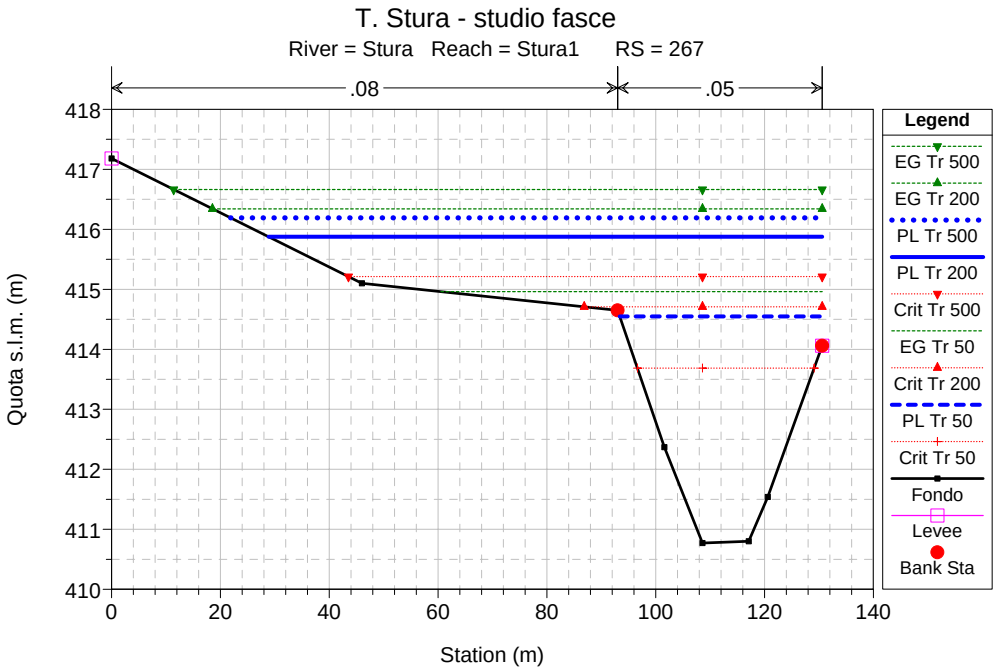

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 270 BR
.08
.05
.08
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

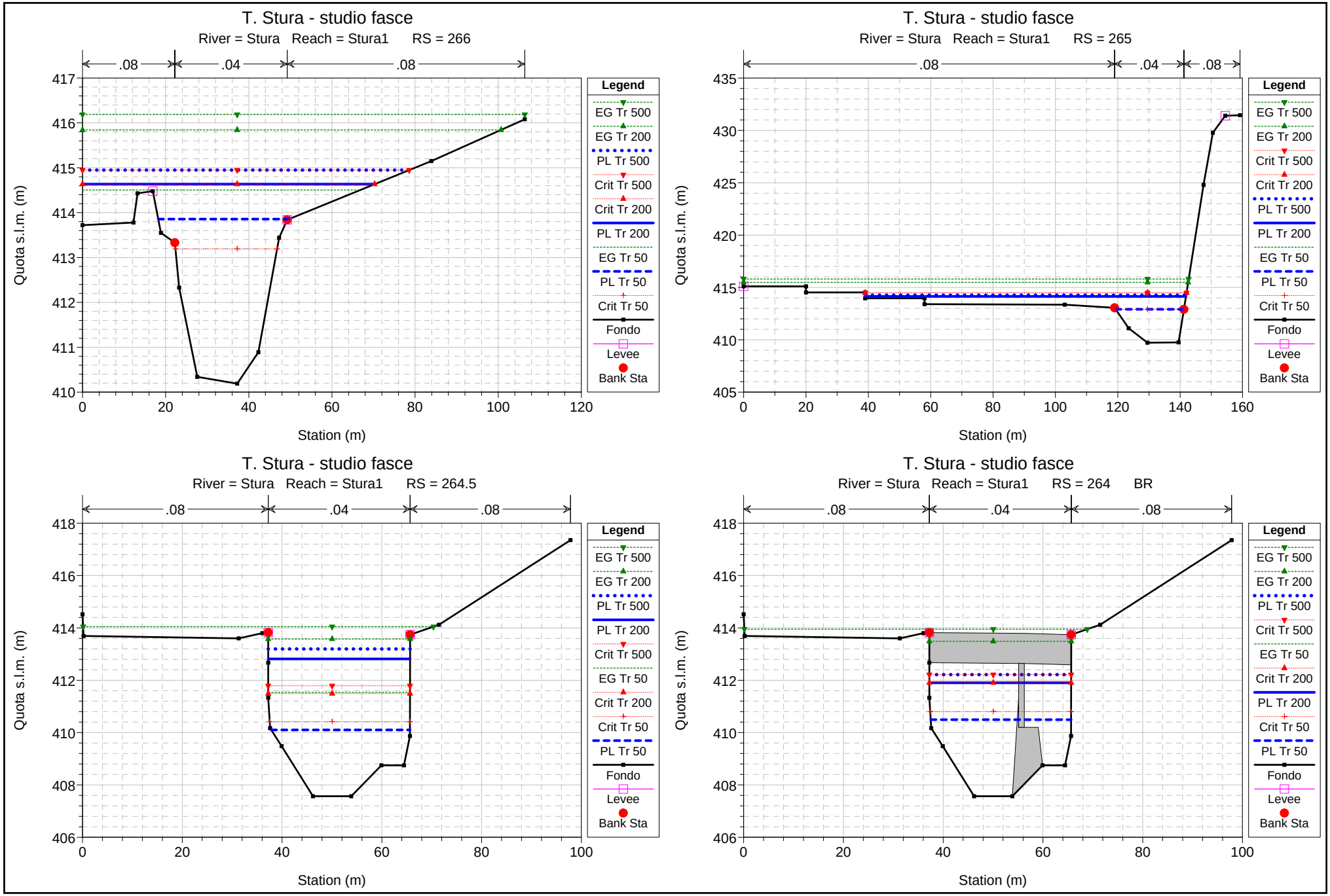

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 270 BR
.08
.05
.08
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

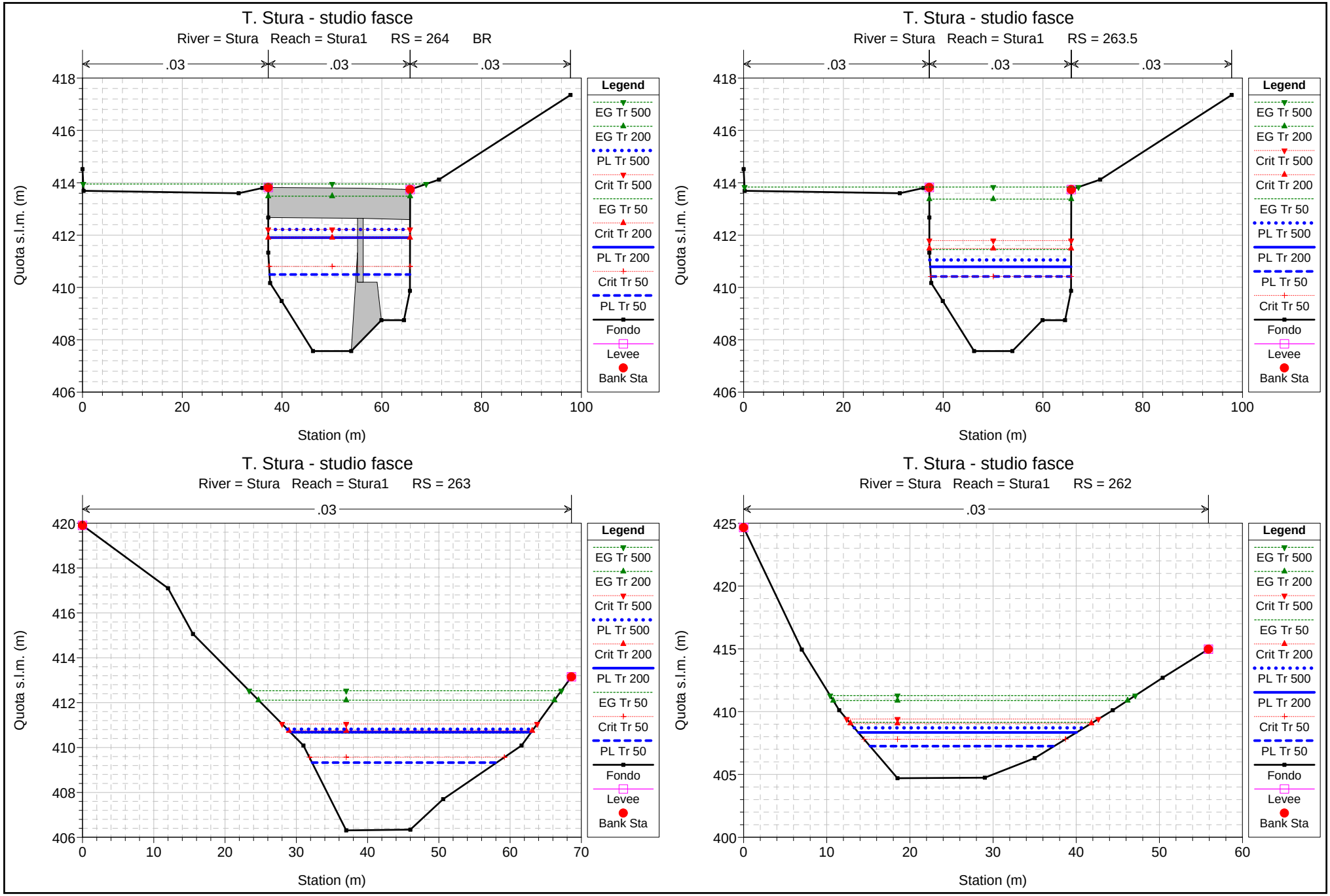

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 269.5
.08
.05
.08
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta

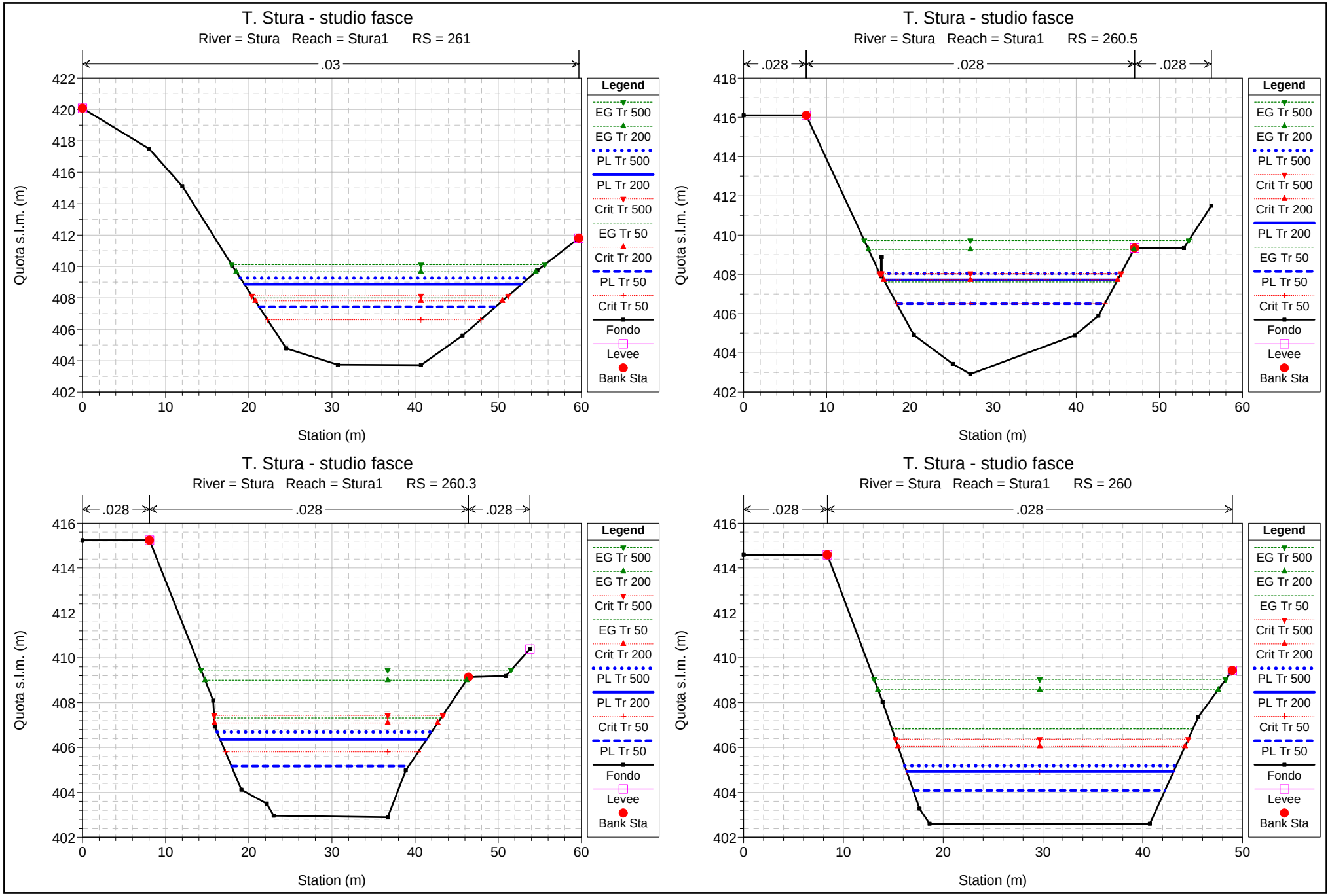

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 269
.08
.05
.08
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

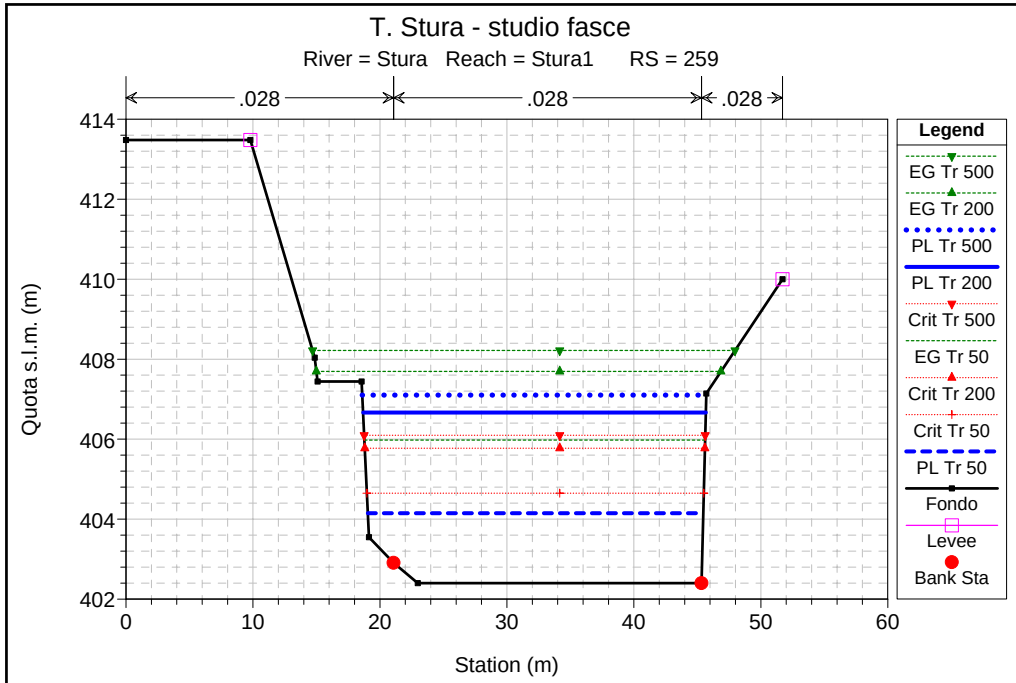

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 268
.08
.05
.08
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

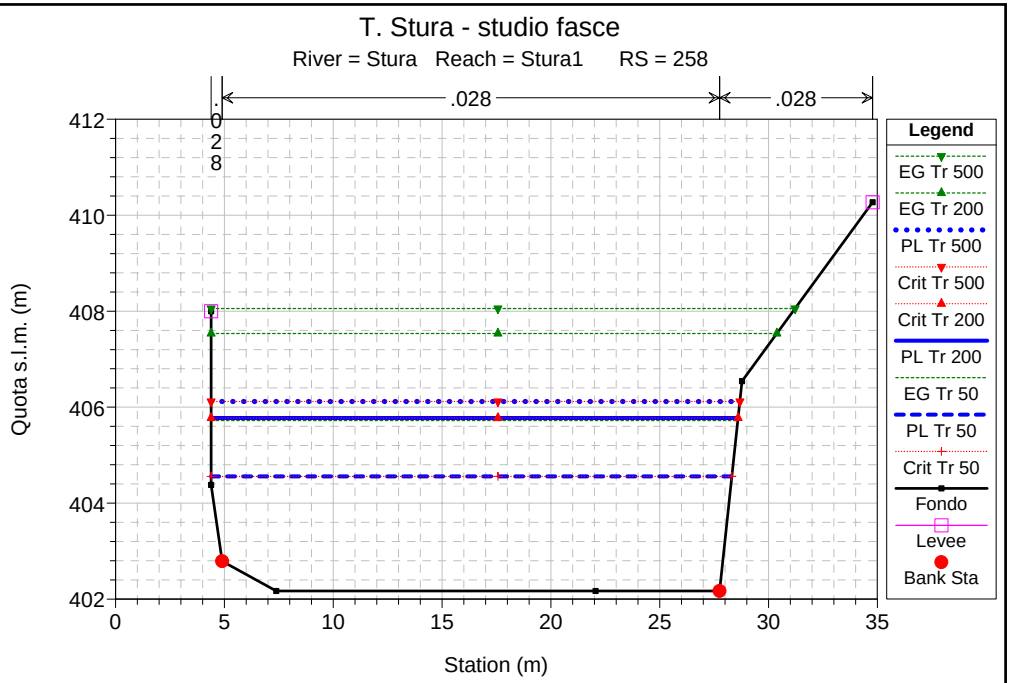

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 267
.08
.05
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

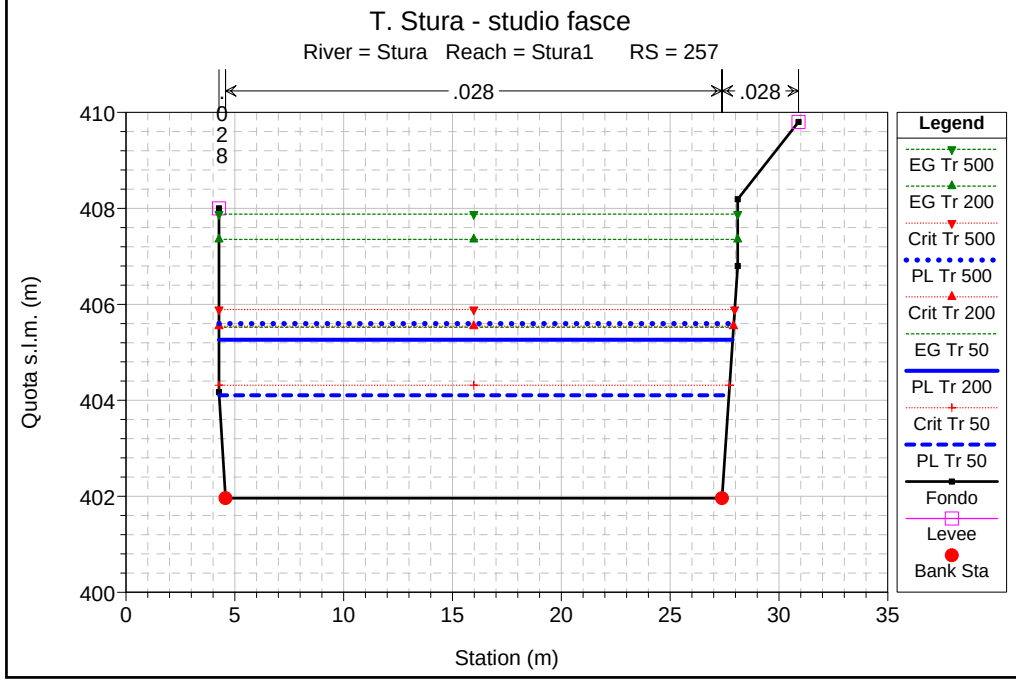

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 266
.08
.04
.08
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 265
.08
.04
.08
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 264.5
.08
.04
.08
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 264 BR
.08
.04
.08
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

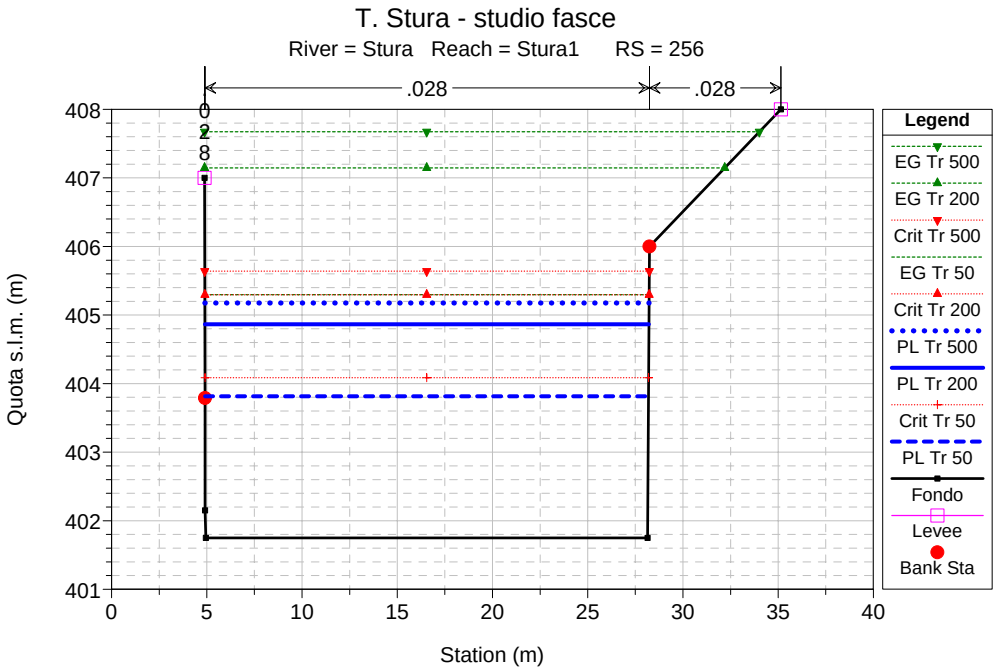

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 264 BR
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 263.5
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 263
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
PL Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 262
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

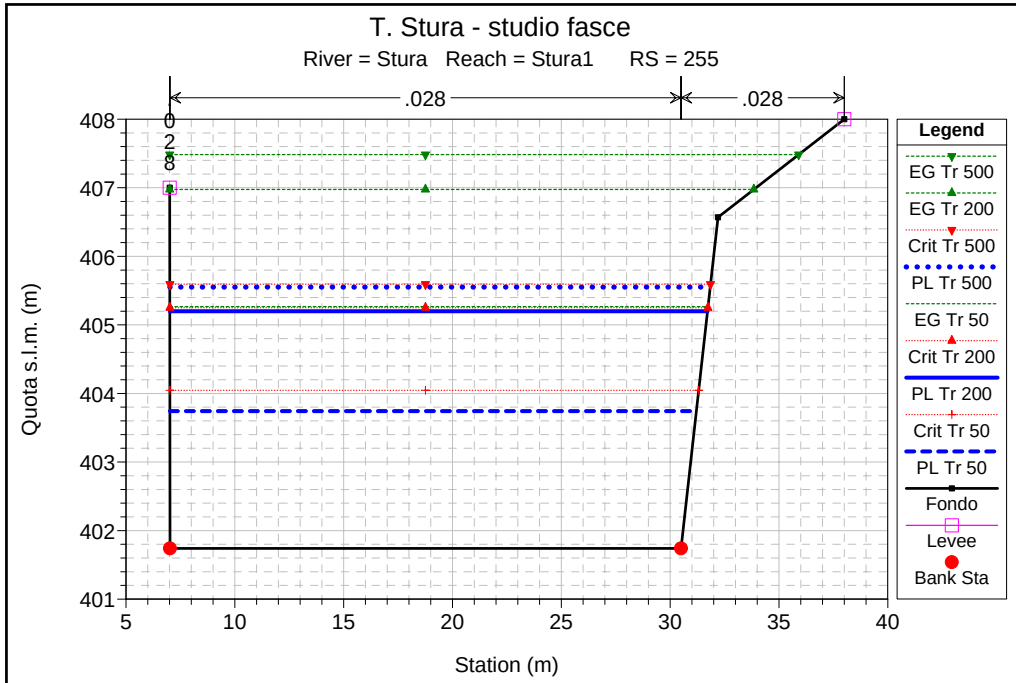

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 261
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 260.5
.028
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 260.3
.028
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 260
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

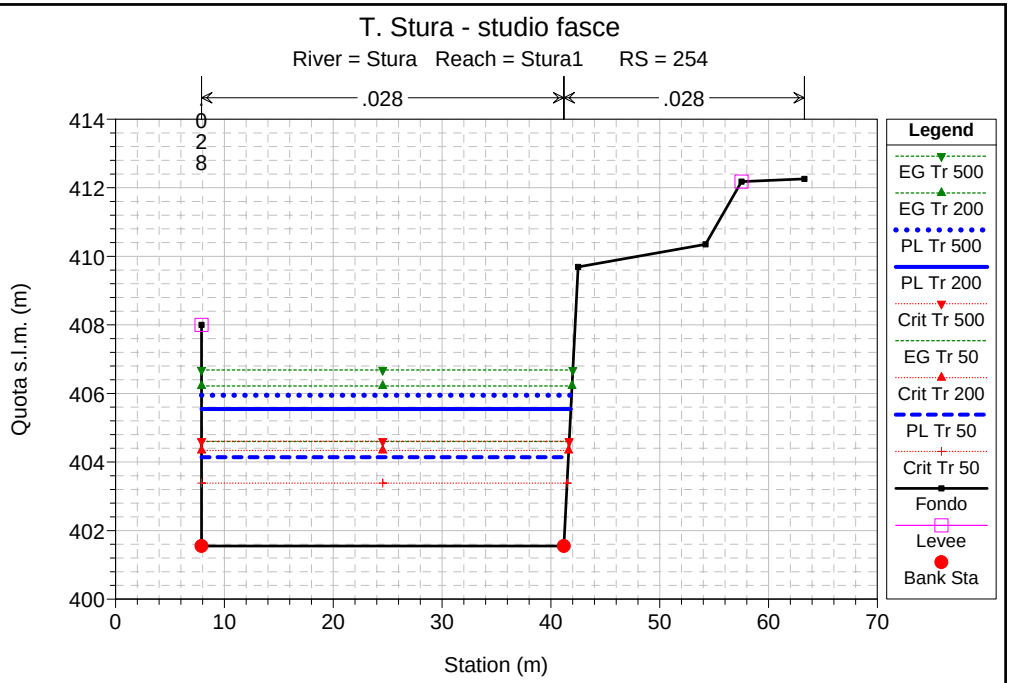

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 259
.028
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

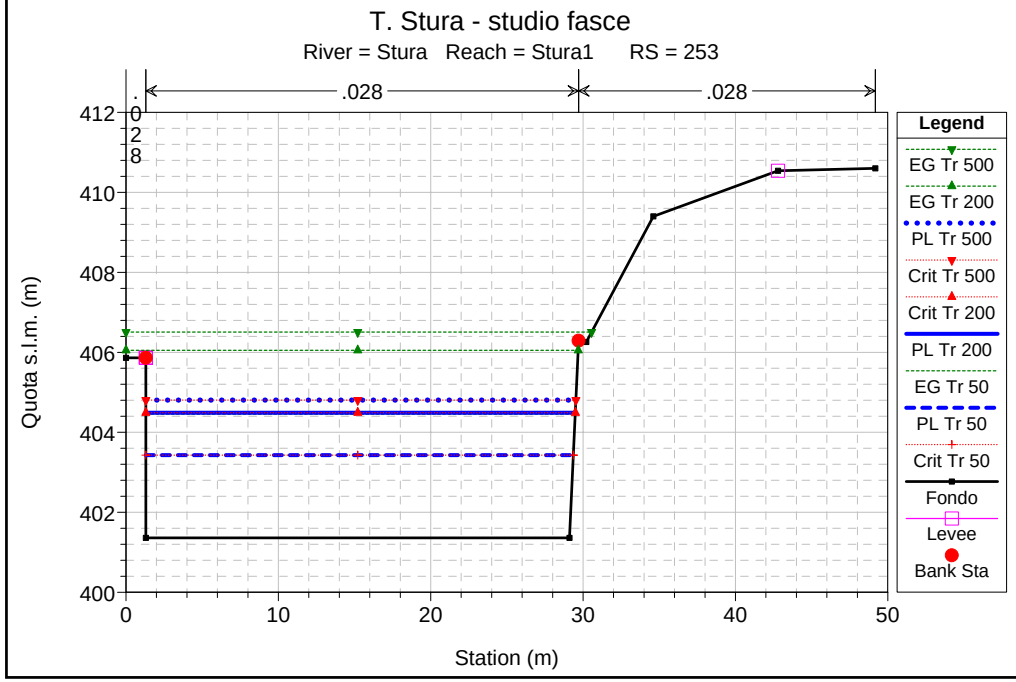

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 258
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

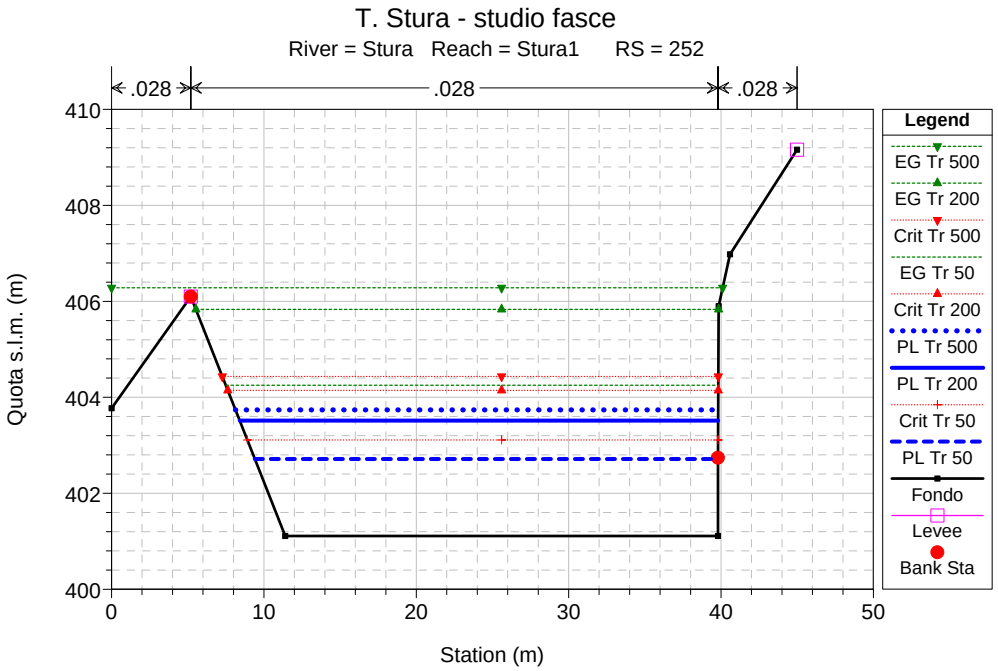

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 257
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
PL Tr 500
Crit Tr 200
EG Tr 50
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

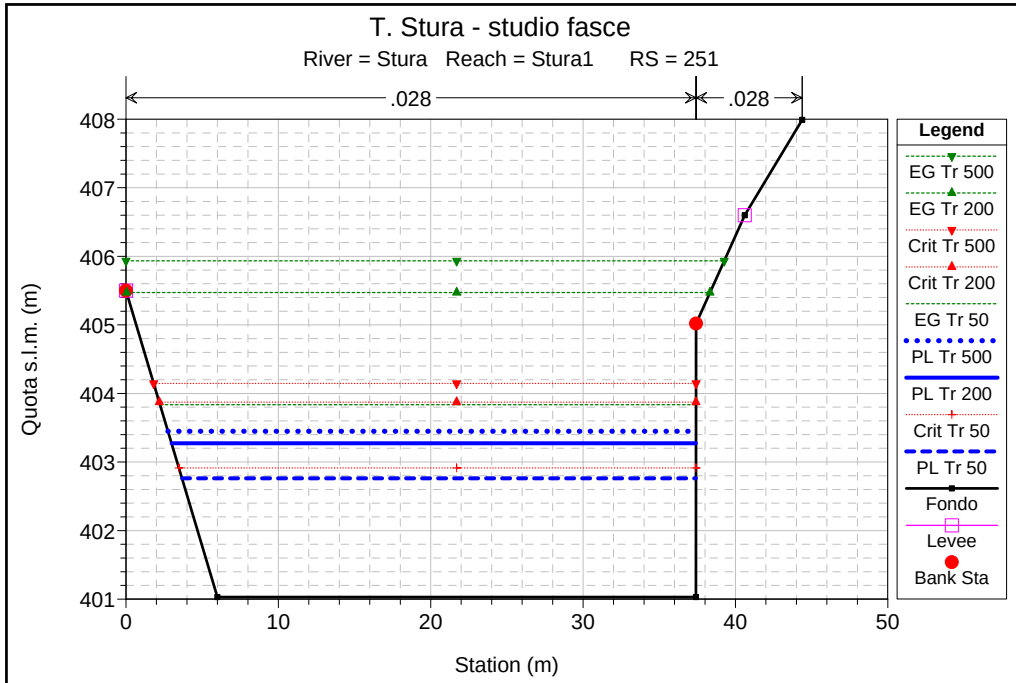

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 256
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

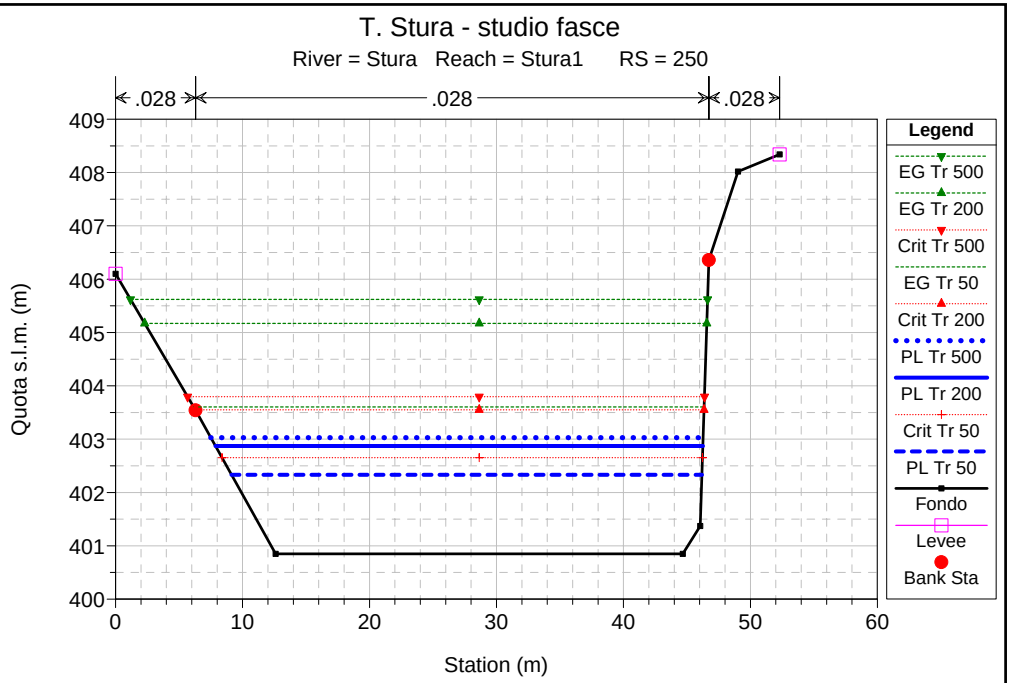

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 255
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
PL Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

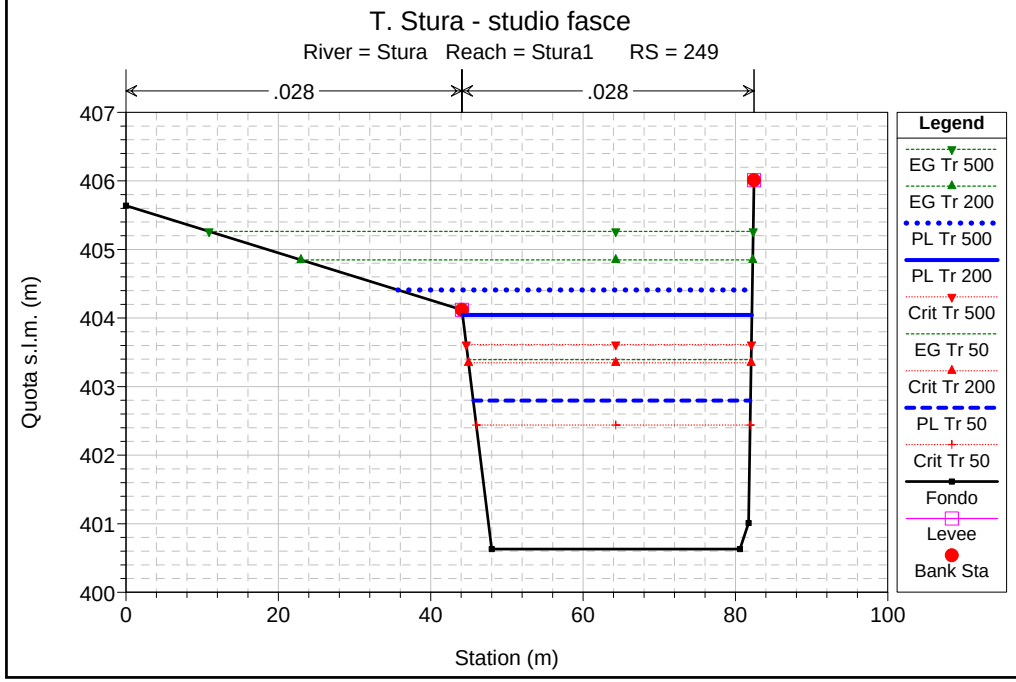

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 254
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

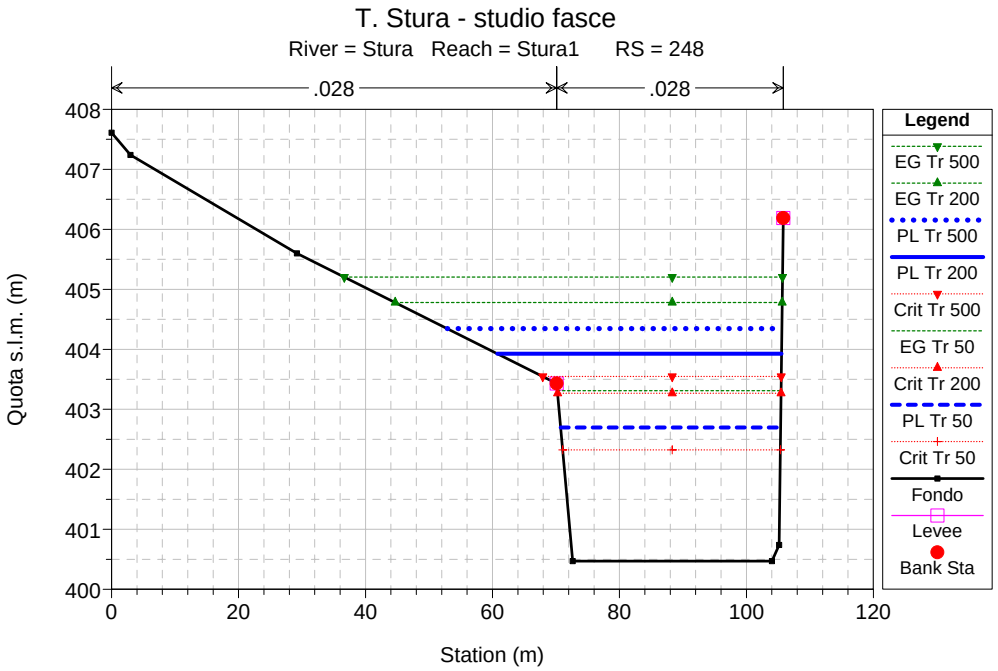

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 253
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

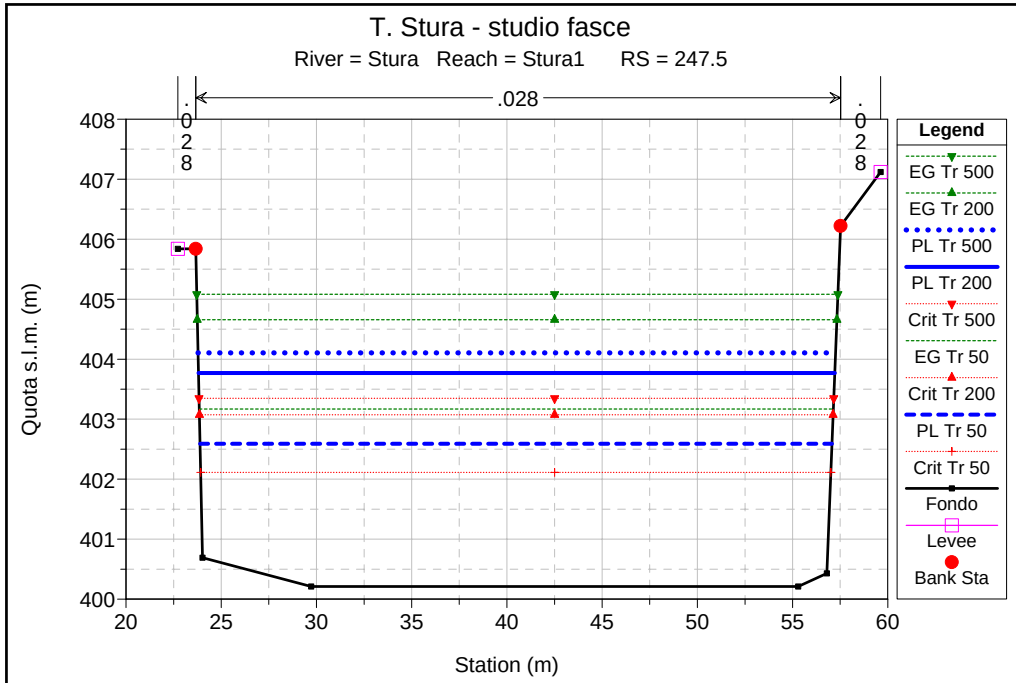

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 252
.028
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

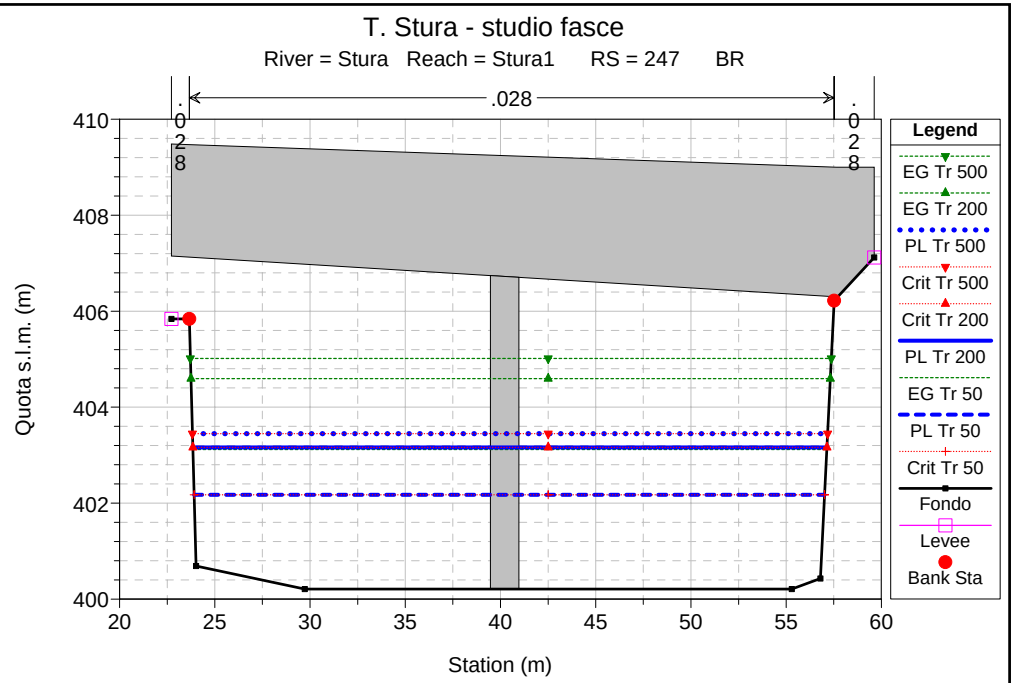

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 251
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

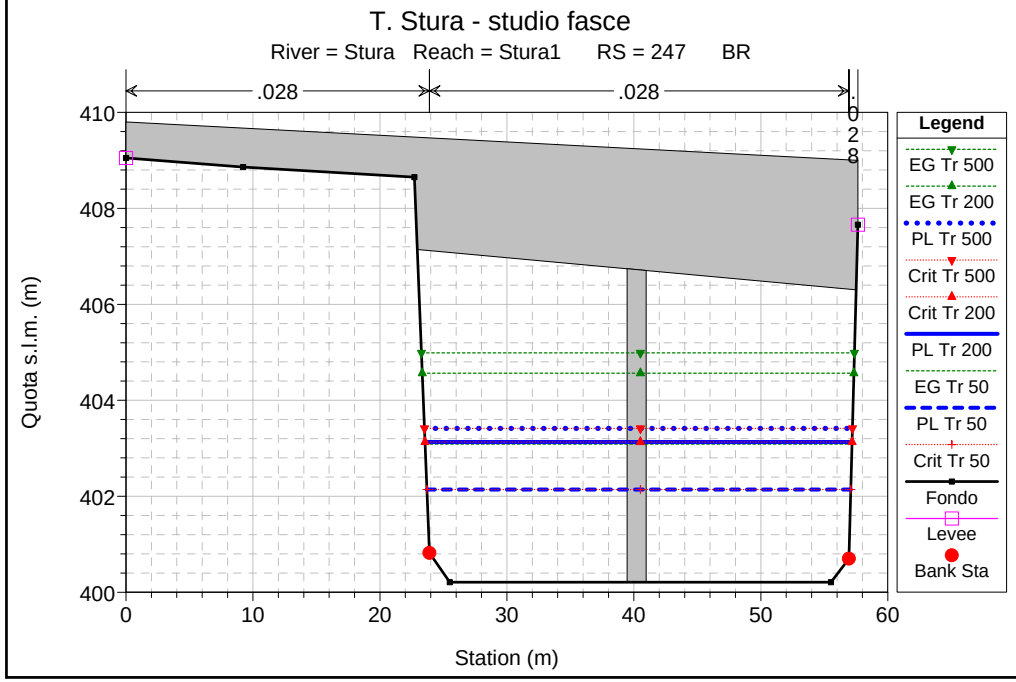

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 250
.028
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

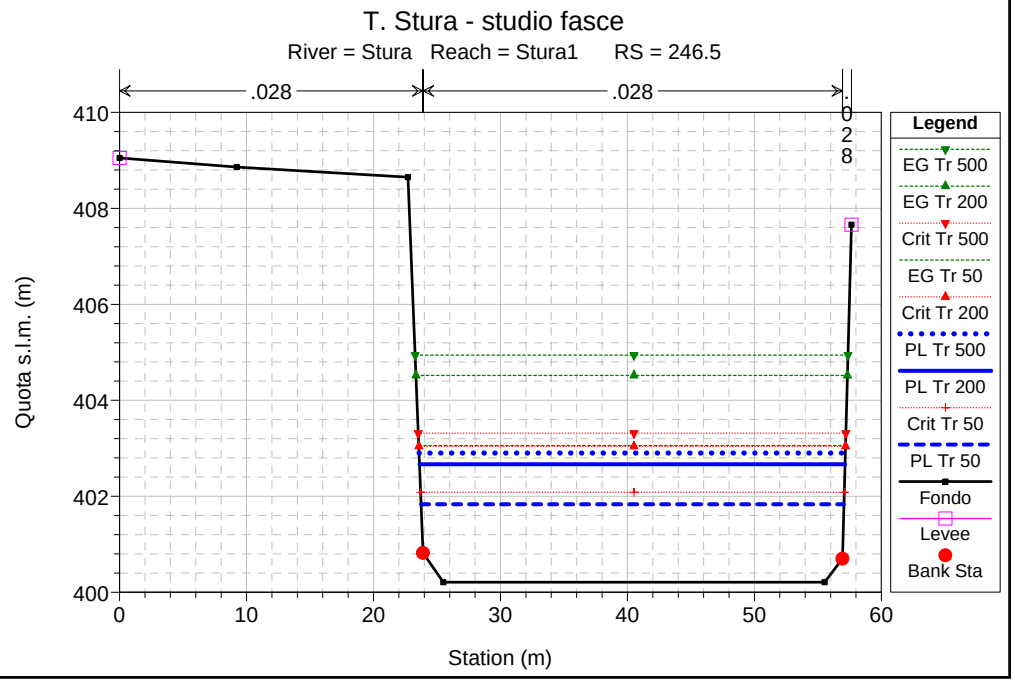

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 249
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

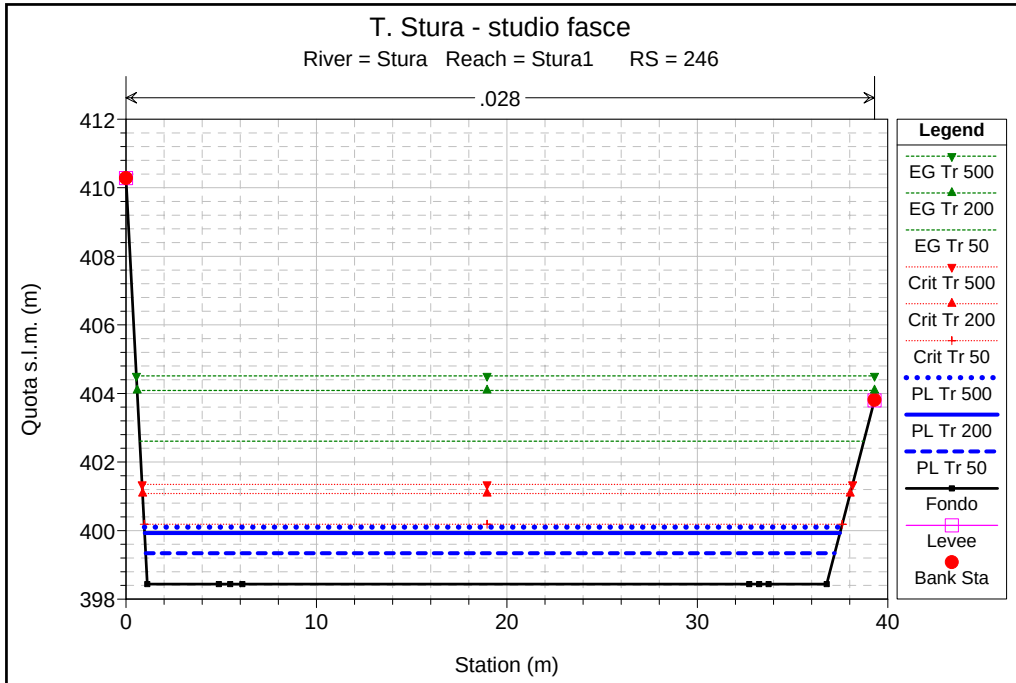

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 248
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

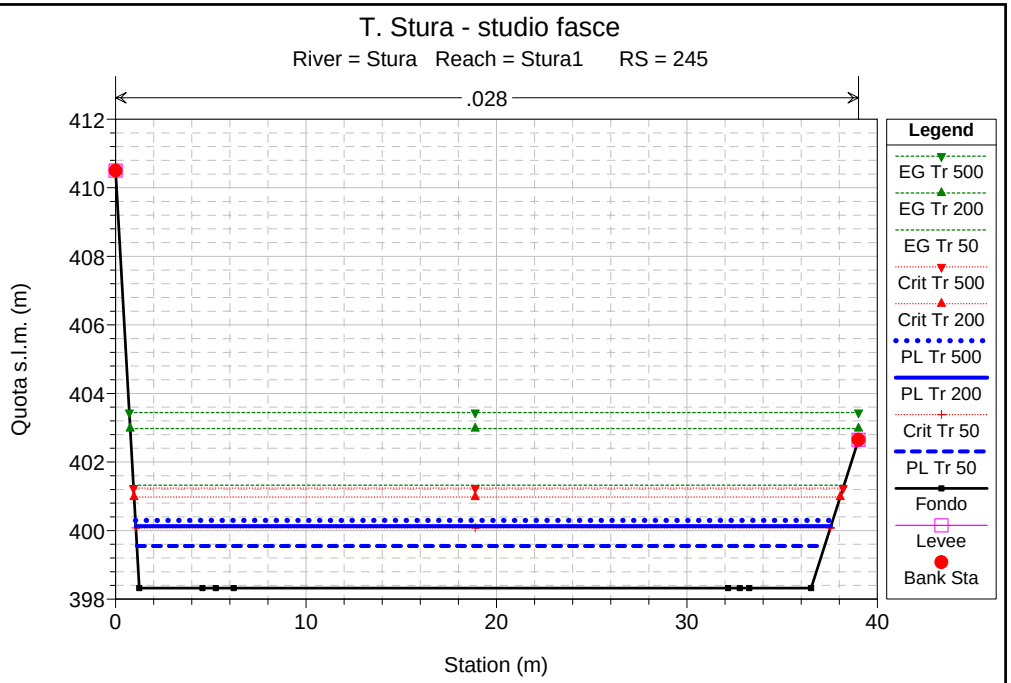

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 247.5
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

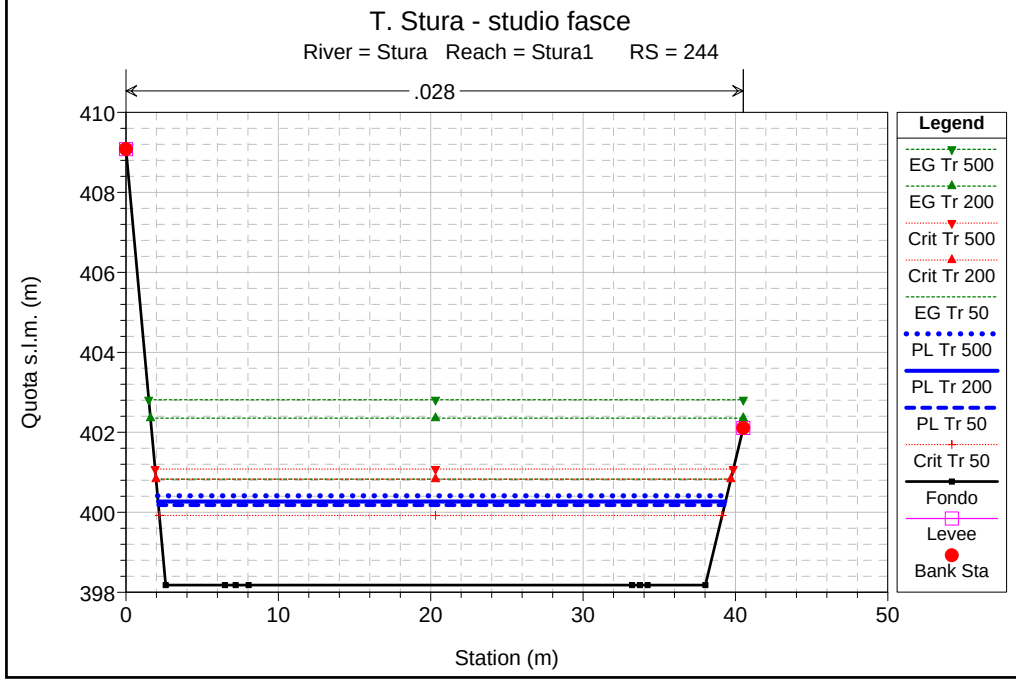

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 247 BR
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

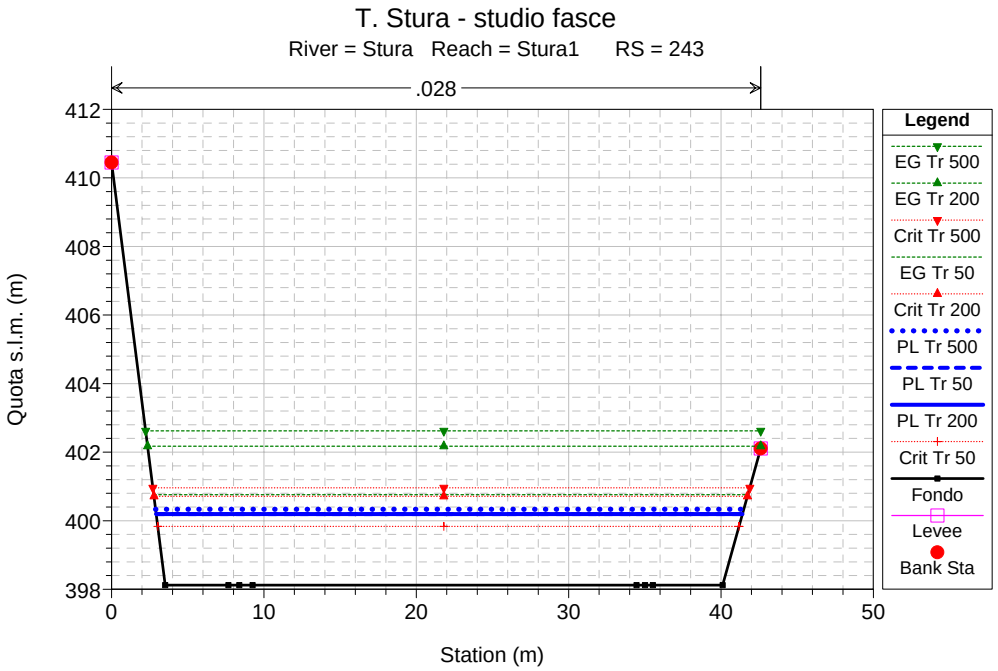

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 247 BR
.028
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

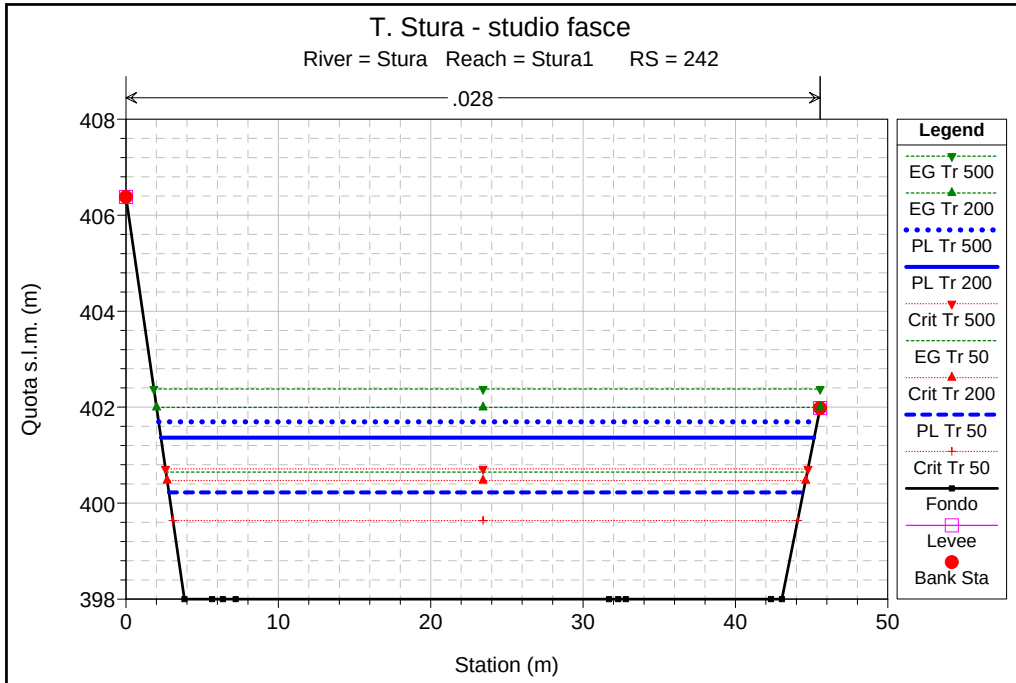

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 246.5
.028
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

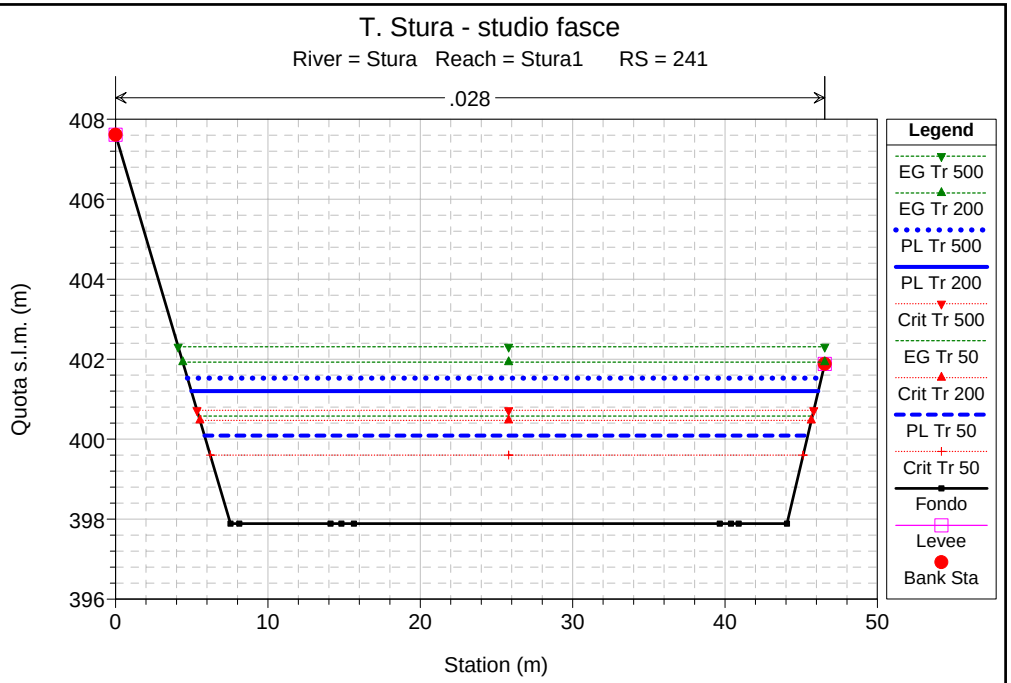

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 246
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

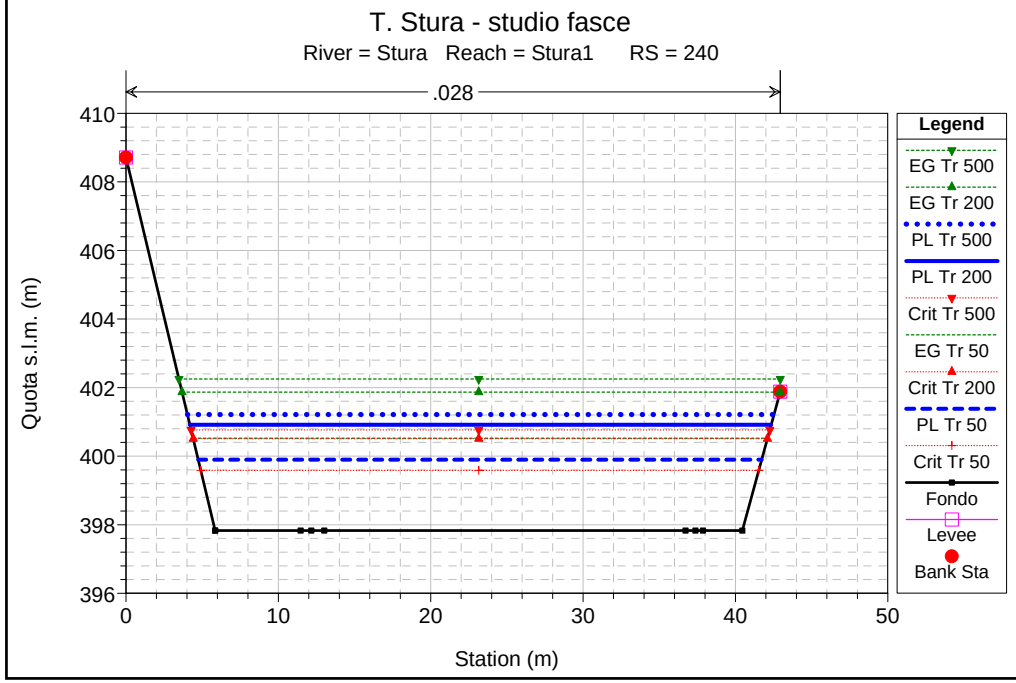

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 245
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

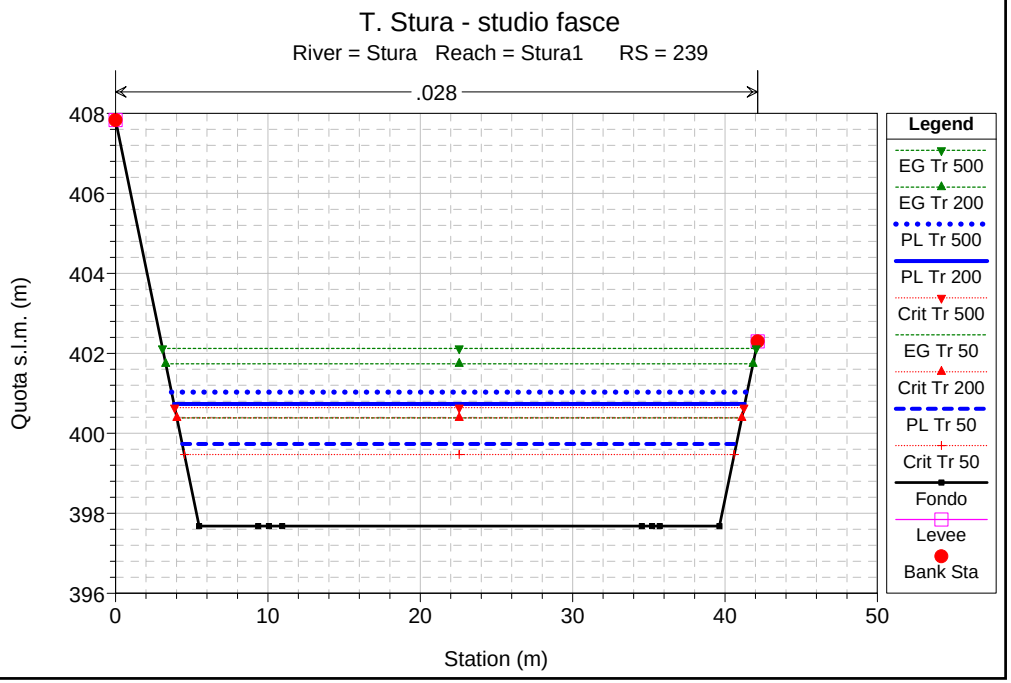

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 244
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

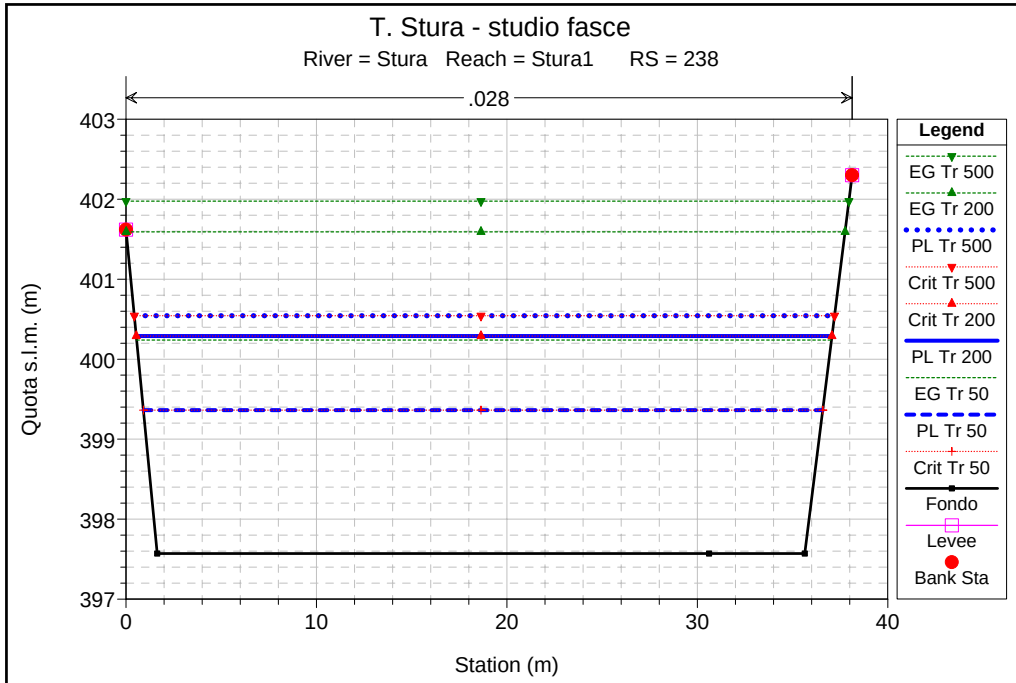

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 243
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 50
PL Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta

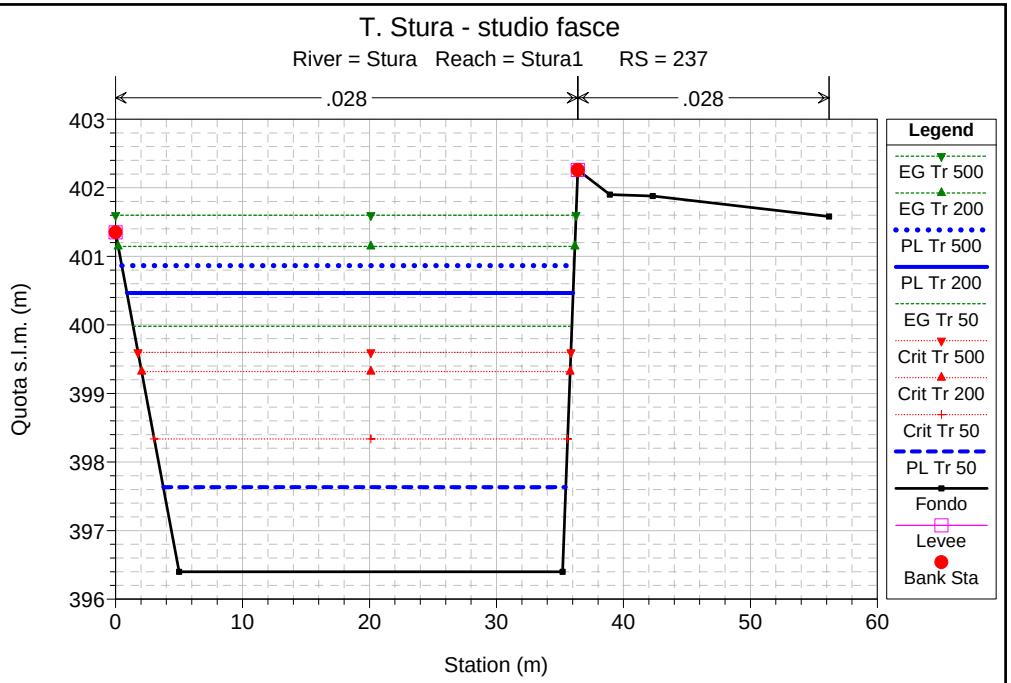

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 242
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

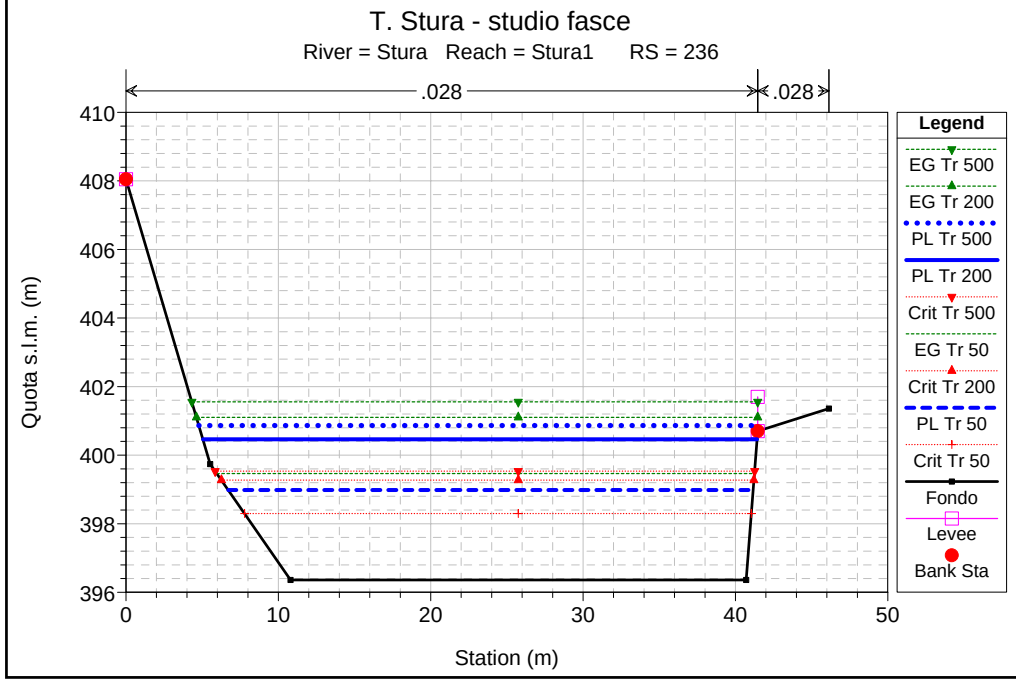

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 241
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

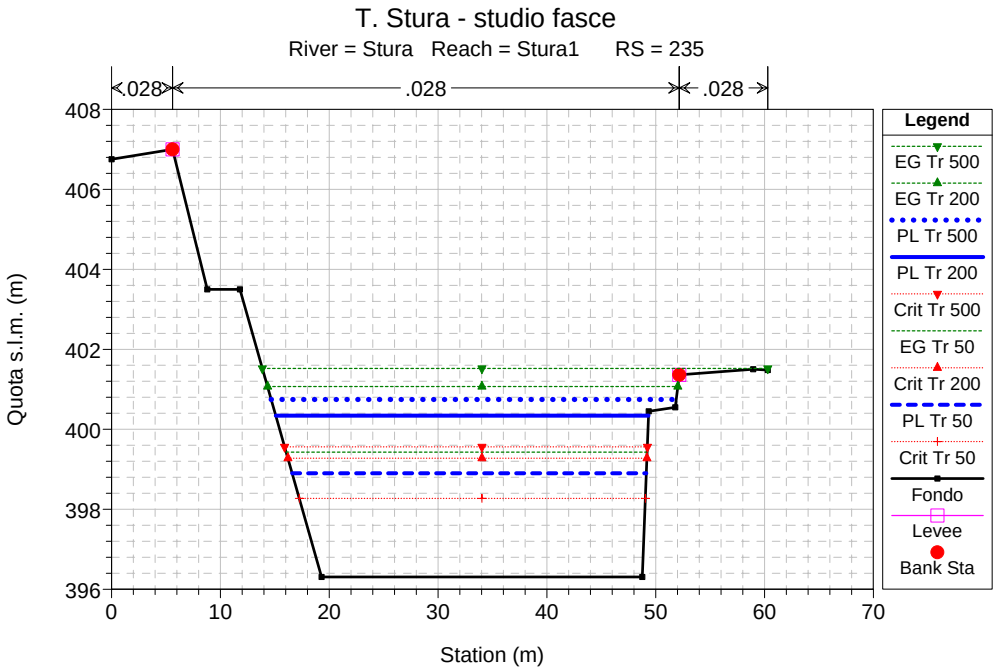

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 240
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

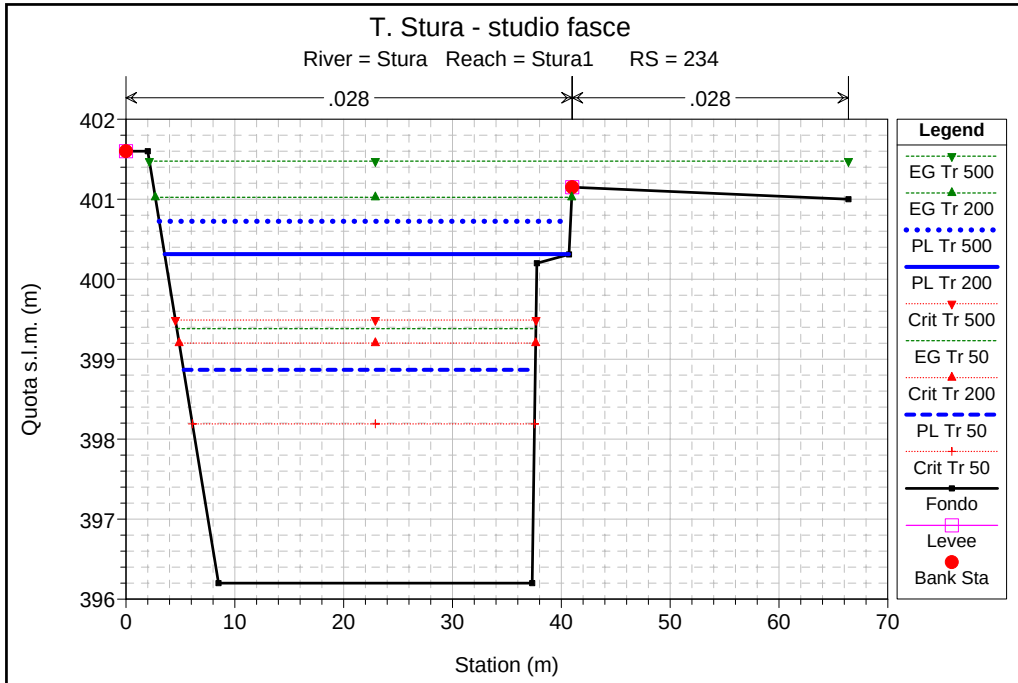

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 239
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

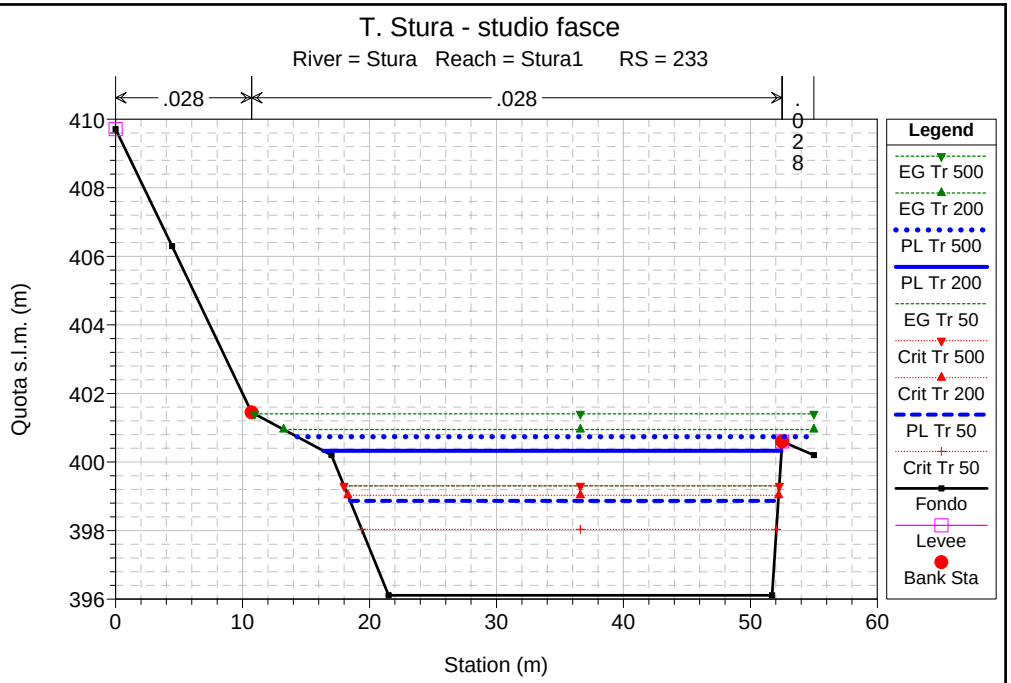

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 238
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

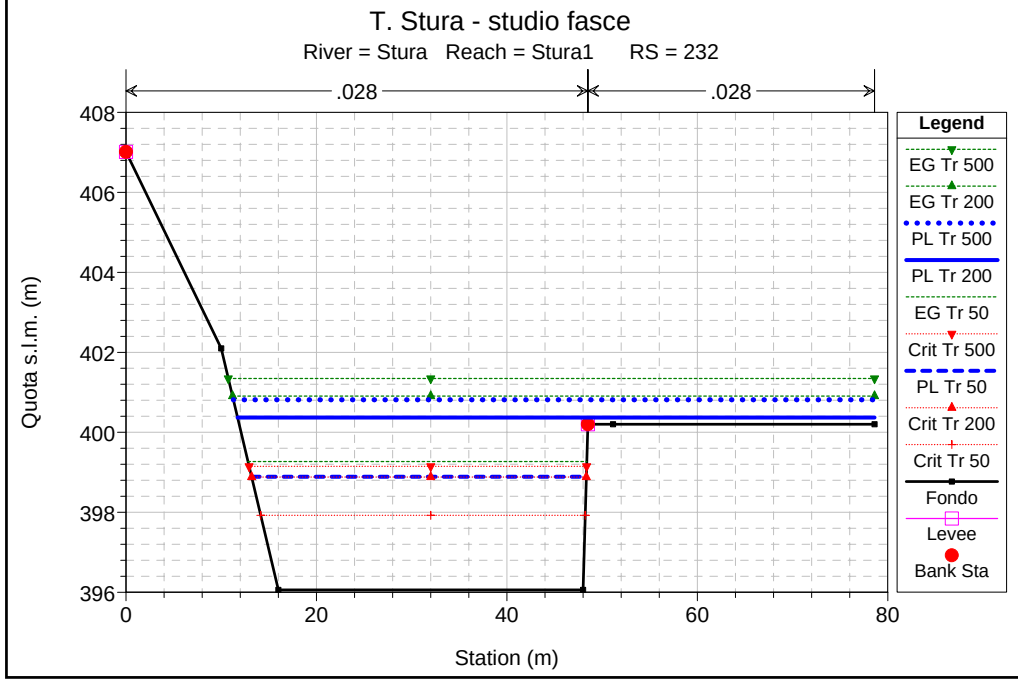

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 237
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

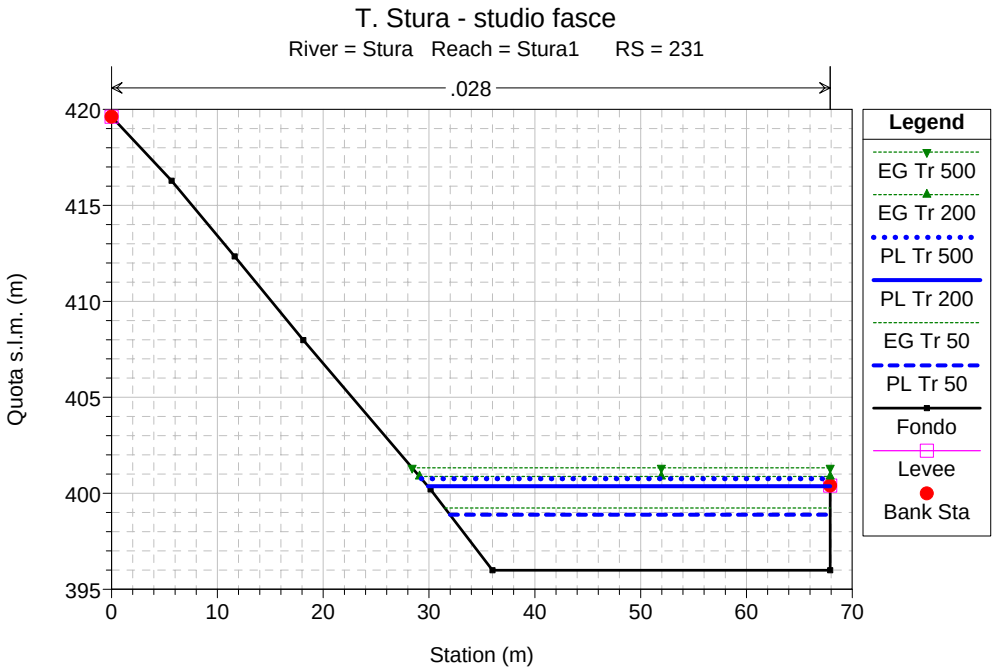

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 236
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

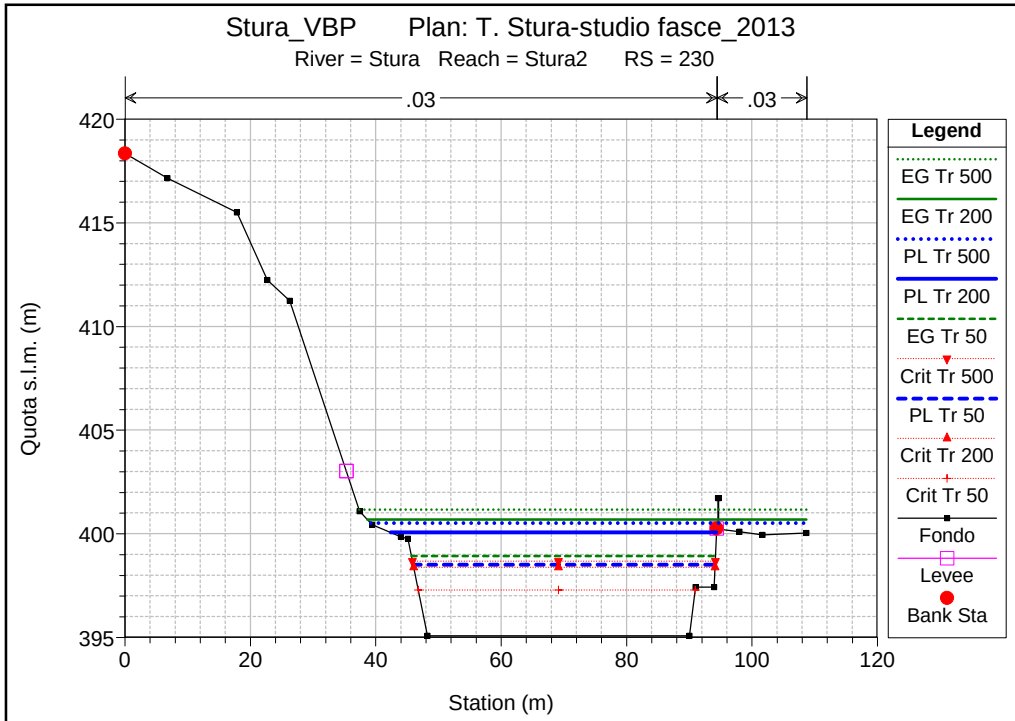

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 235
.028
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

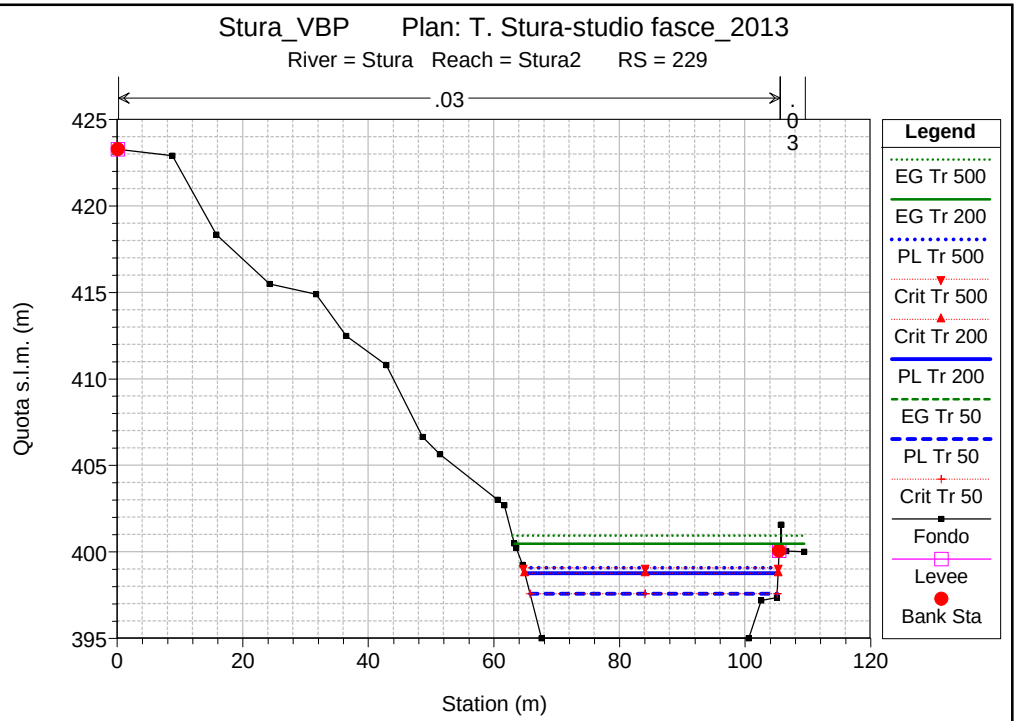

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 234
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

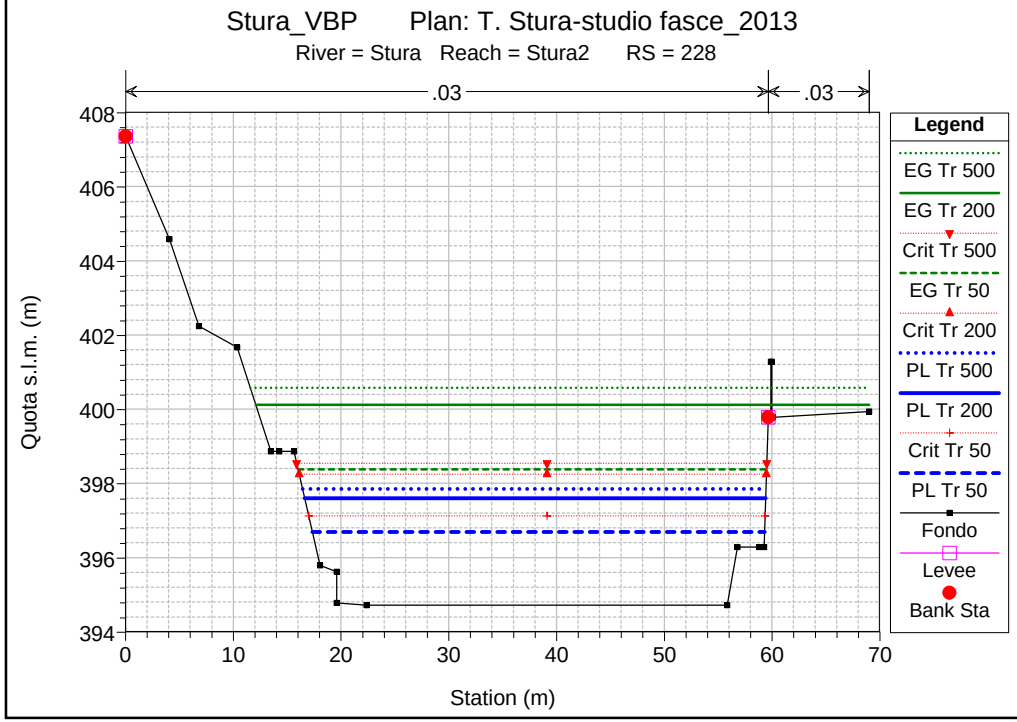

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 233
.028
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

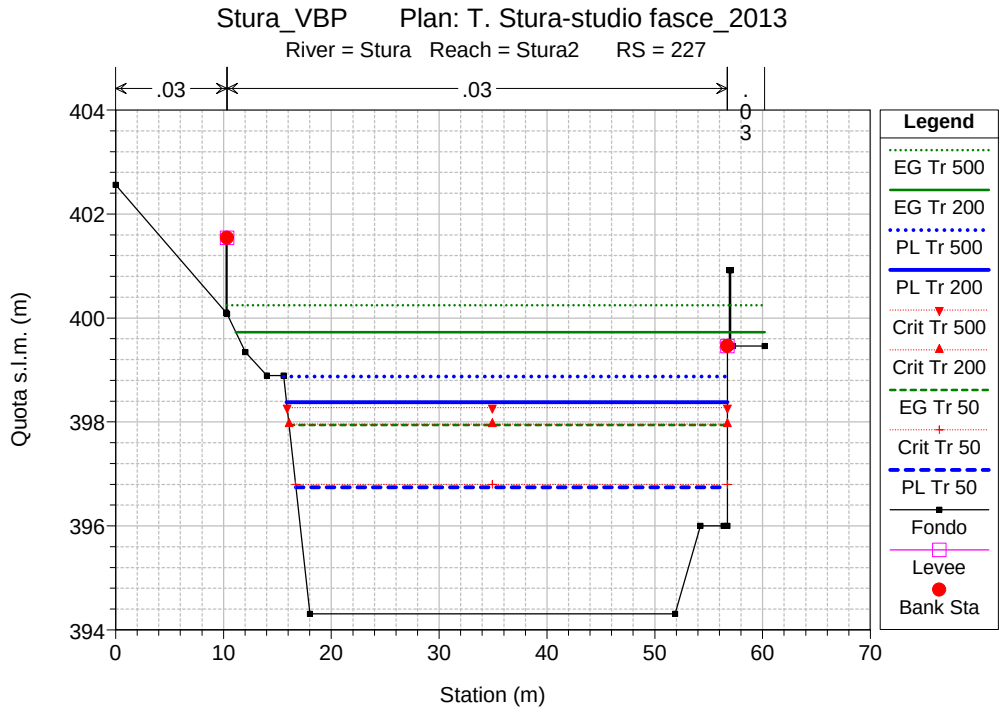

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 232
.028
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta

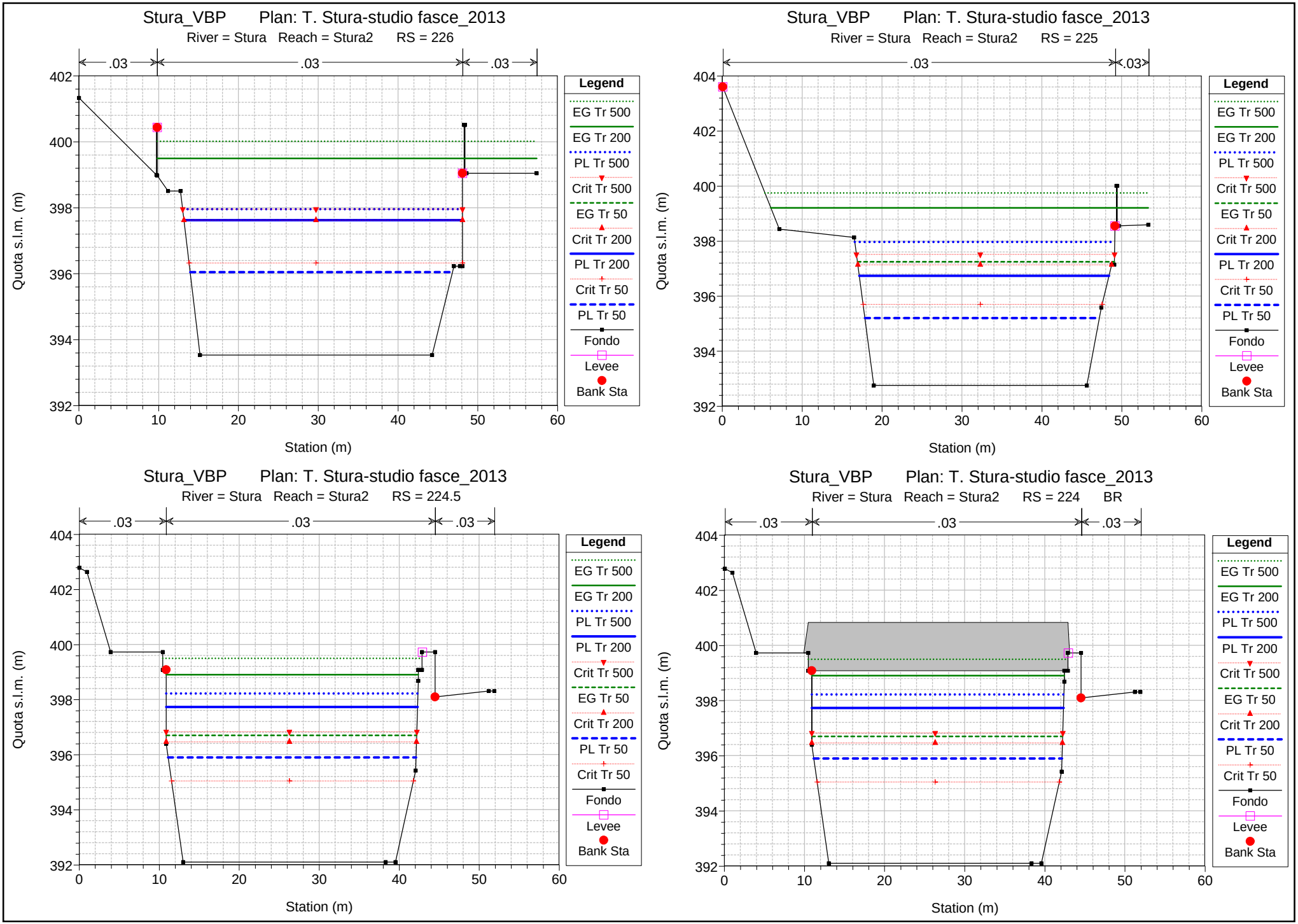

T. Stura - studio fasce
River = Stura Reach = Stura1 RS = 231
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Fondo
Levee
Bank Sta


Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 230
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta


Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 229
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

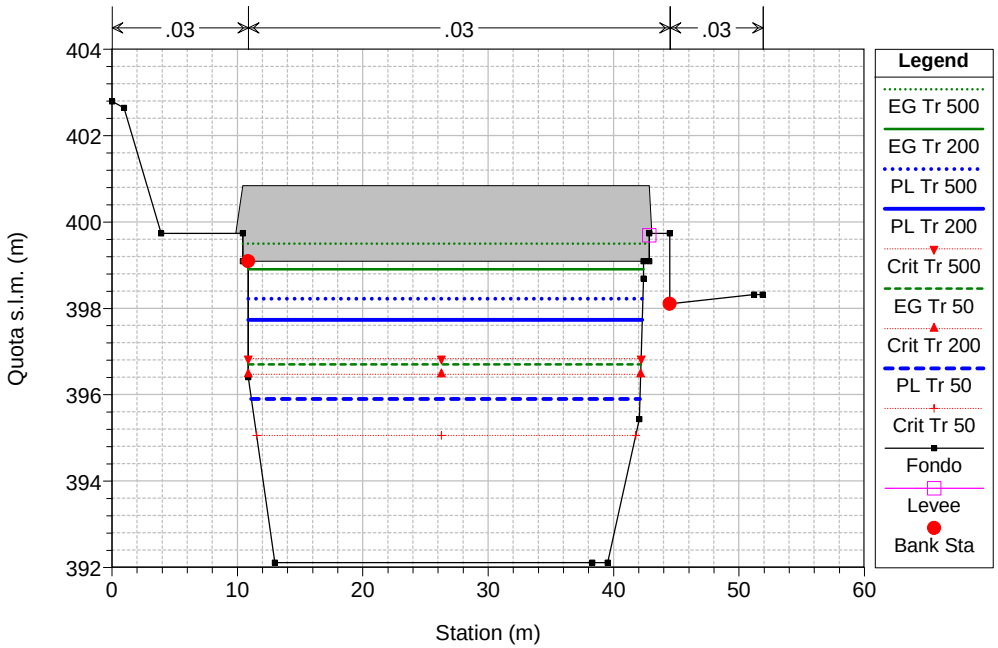

Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 228
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta


Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 227
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta


Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 226
Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 225
Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 224.5
Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 224 BR
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

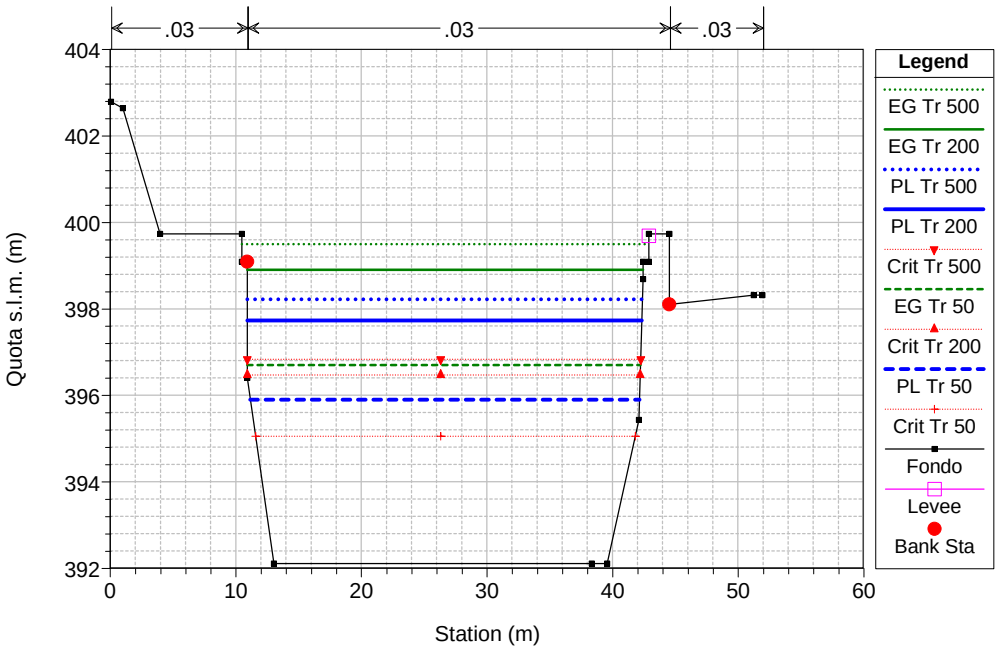
Stura_VBP Plan: T. Stura-studio fasce_2013

River = Stura Reach = Stura2 RS = 224 BR



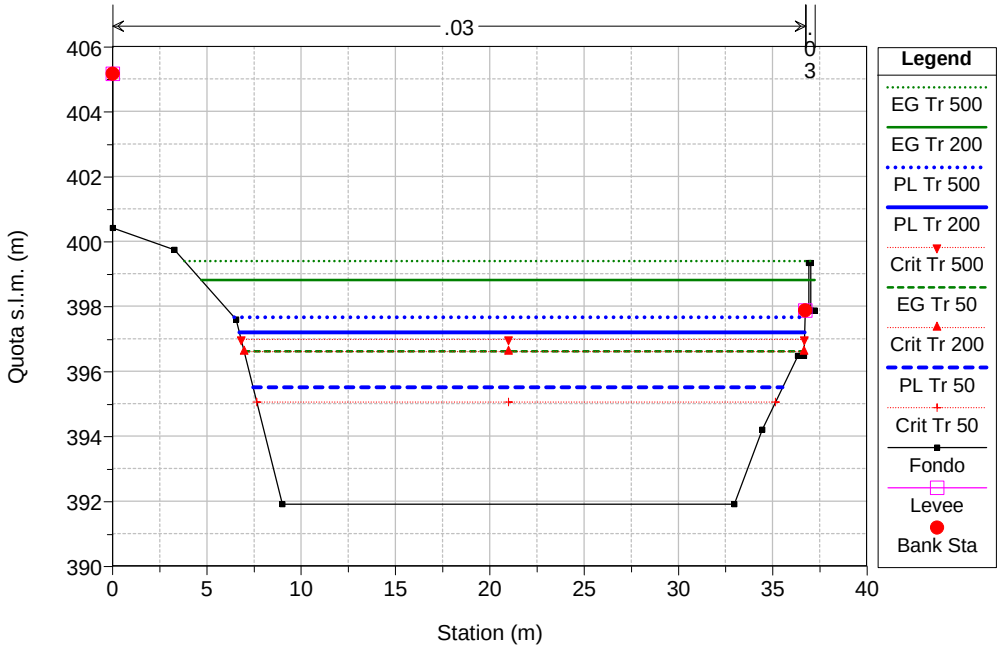
Stura_VBP Plan: T. Stura-studio fasce_2013

River = Stura Reach = Stura2 RS = 223.5



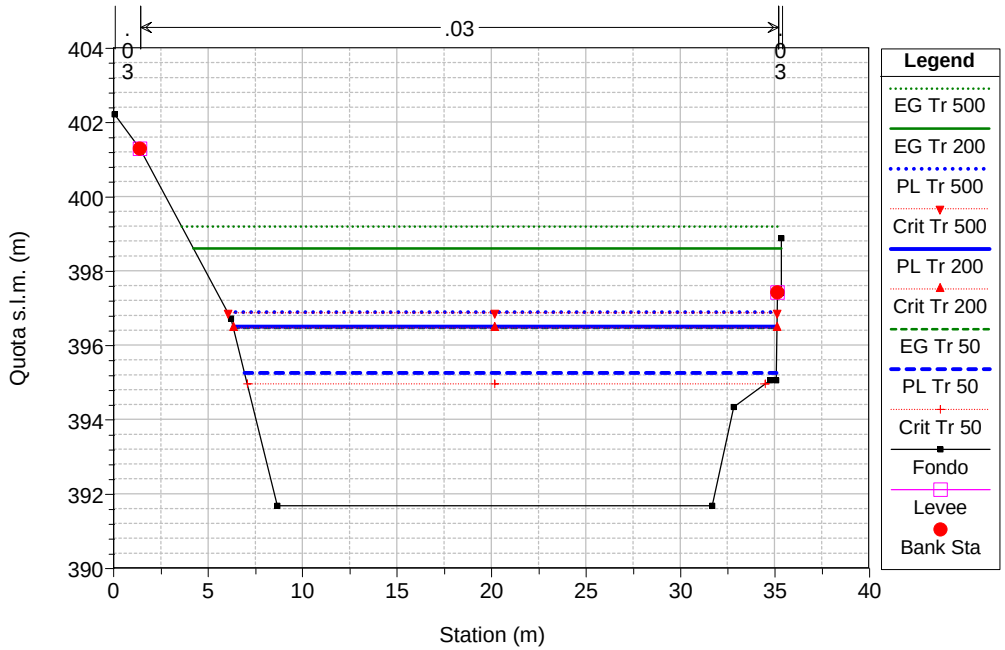
Stura_VBP Plan: T. Stura-studio fasce_2013

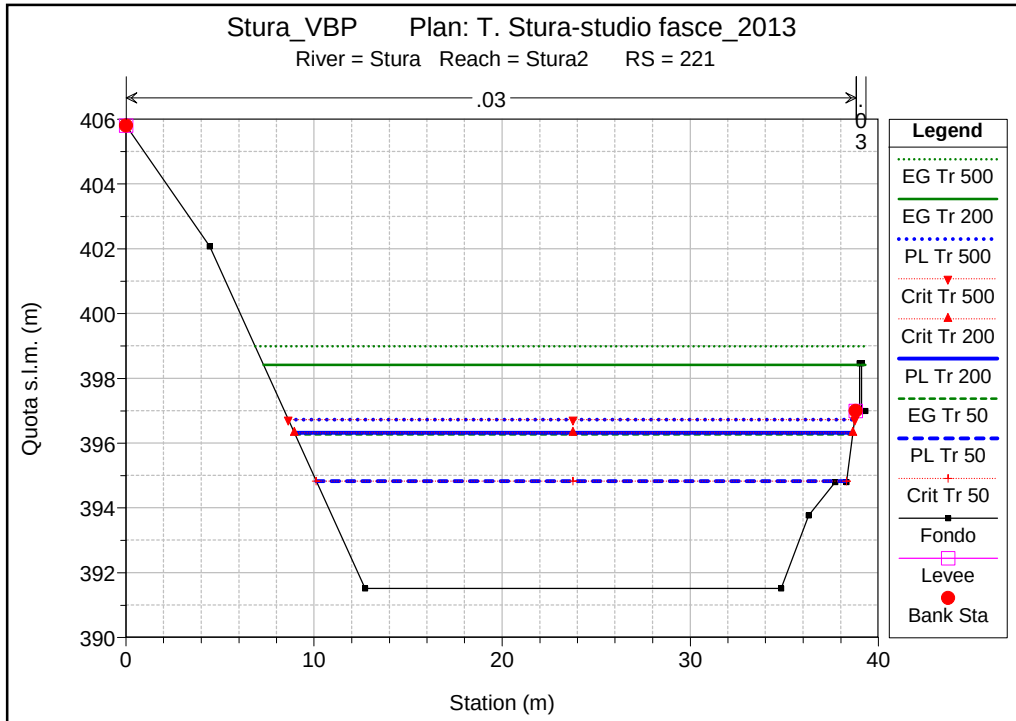
River = Stura Reach = Stura2 RS = 223

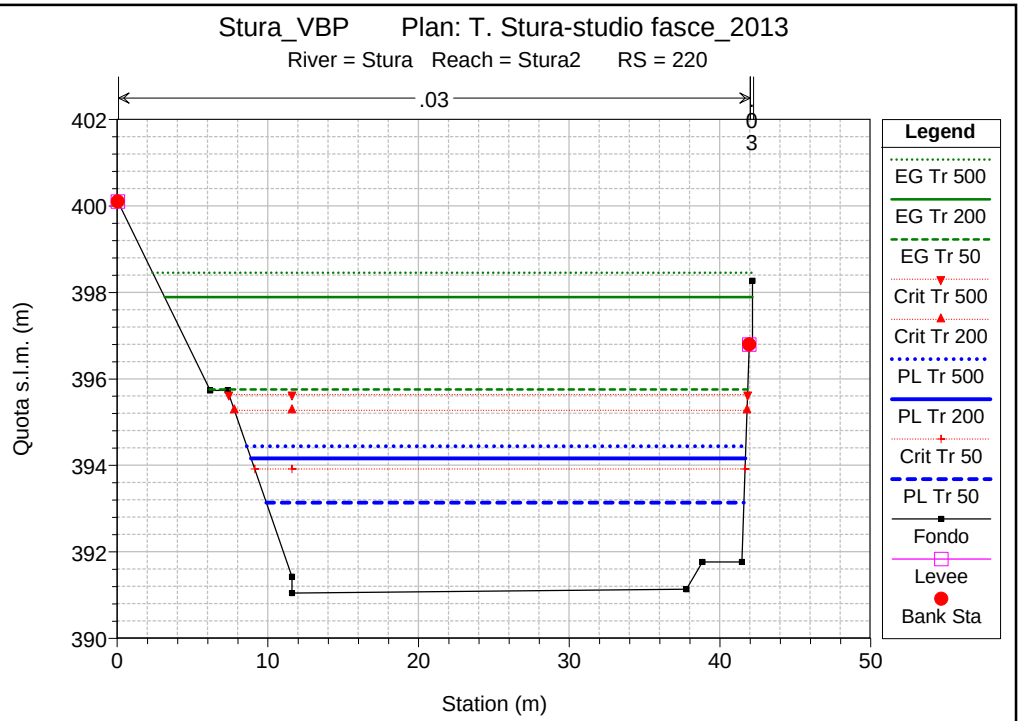


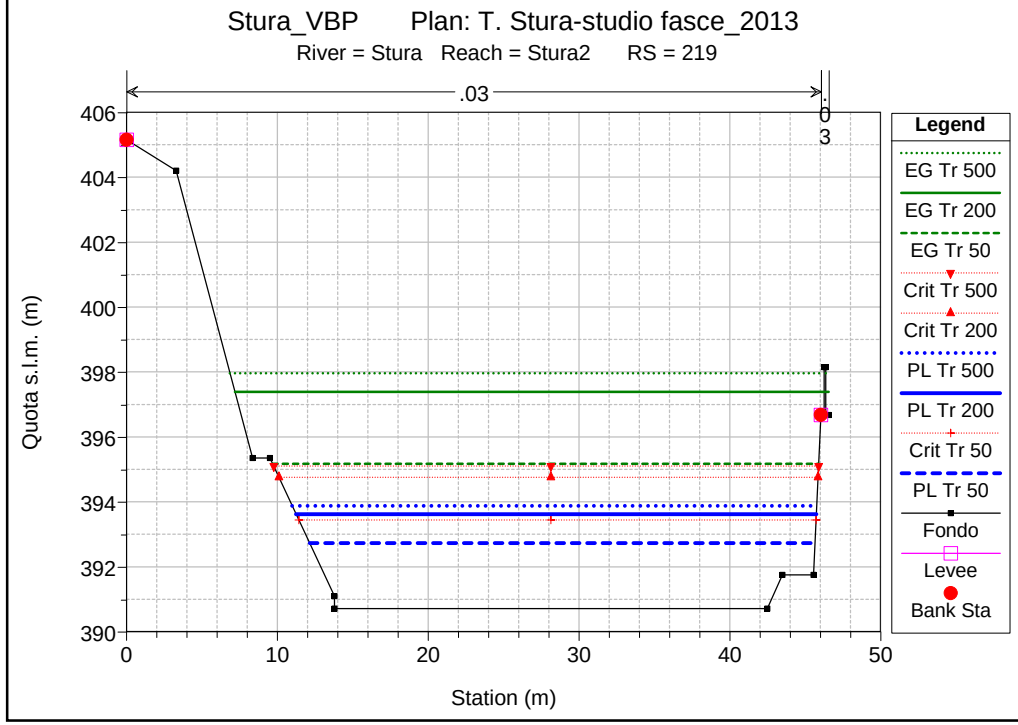
Stura_VBP Plan: T. Stura-studio fasce_2013

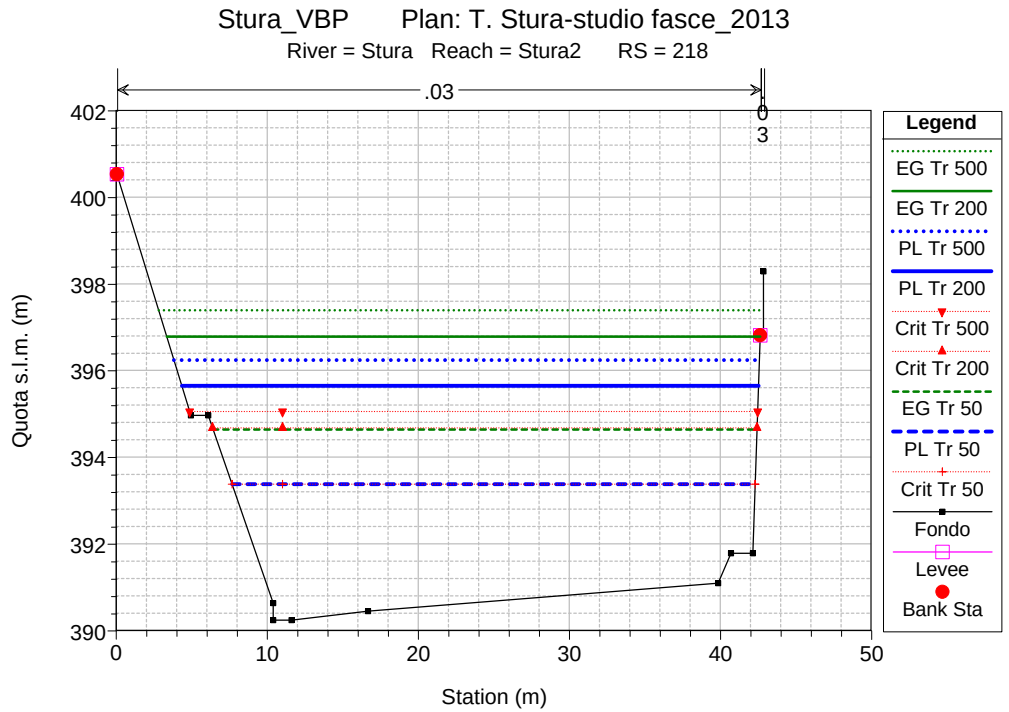
River = Stura Reach = Stura2 RS = 222




Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 221
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

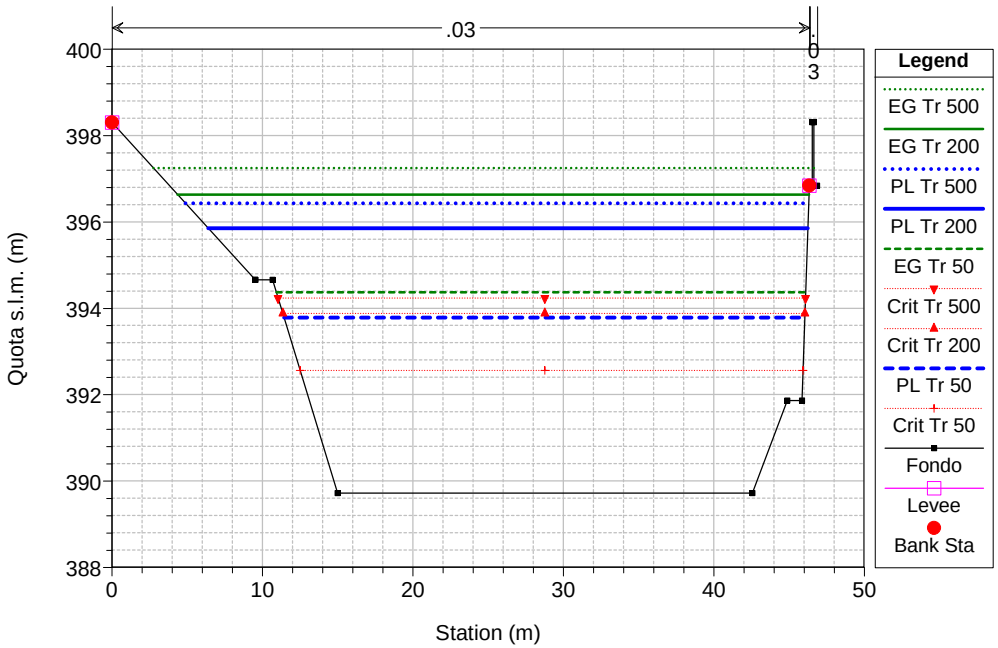

Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 220
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta


Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 219
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta


Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 218
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

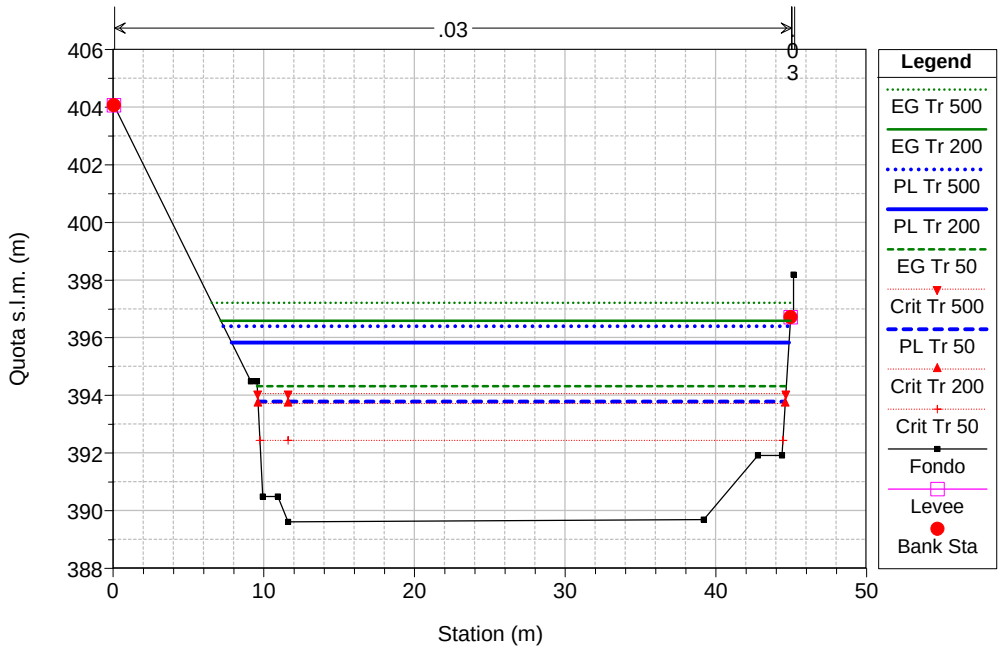
Stura_VBP Plan: T. Stura-studio fasce_2013

River = Stura Reach = Stura2 RS = 217



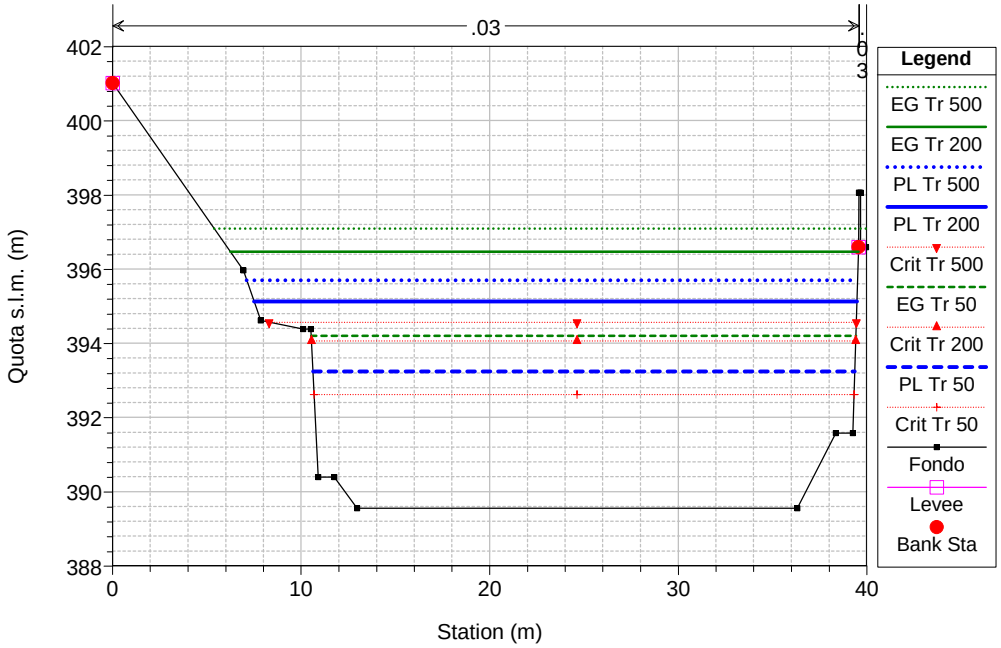
Stura_VBP Plan: T. Stura-studio fasce_2013

River = Stura Reach = Stura2 RS = 216



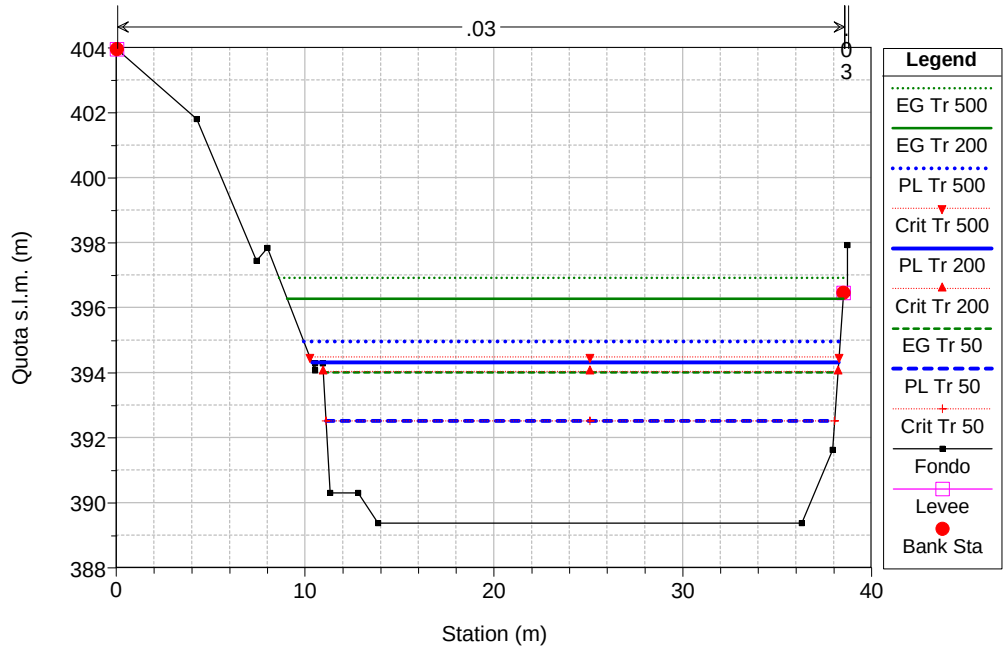
Stura_VBP Plan: T. Stura-studio fasce_2013

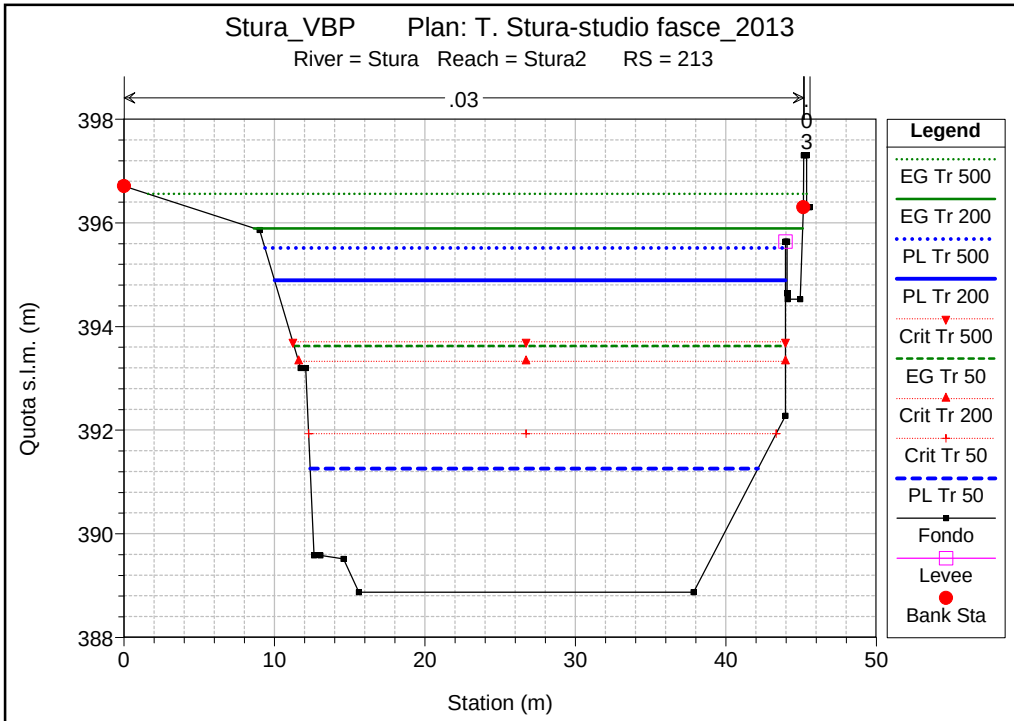
River = Stura Reach = Stura2 RS = 215

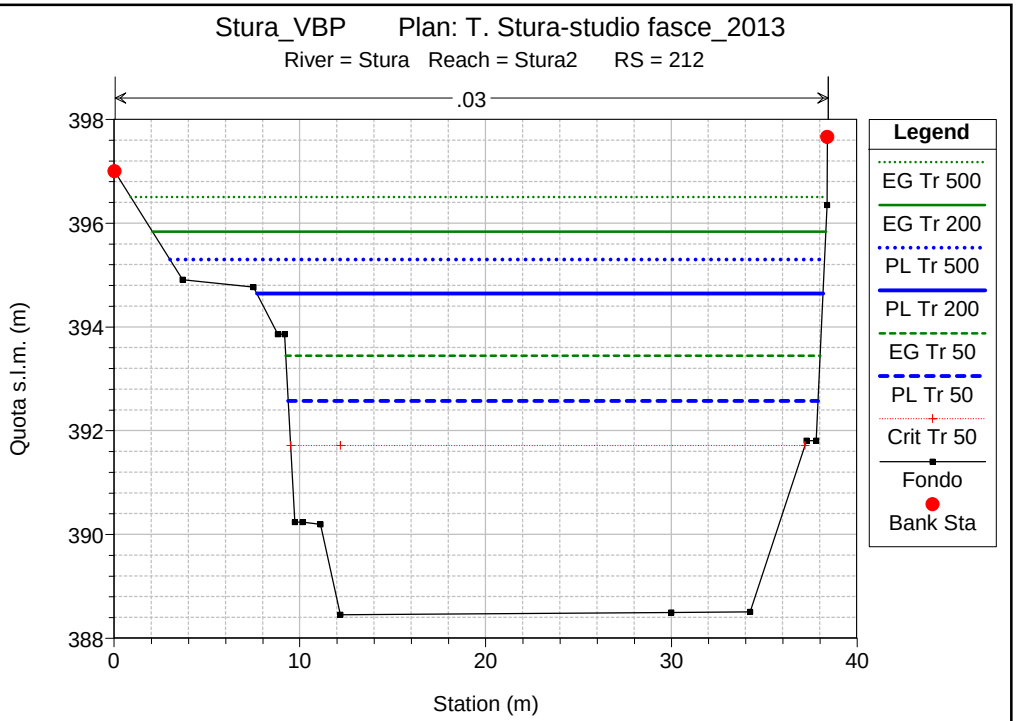


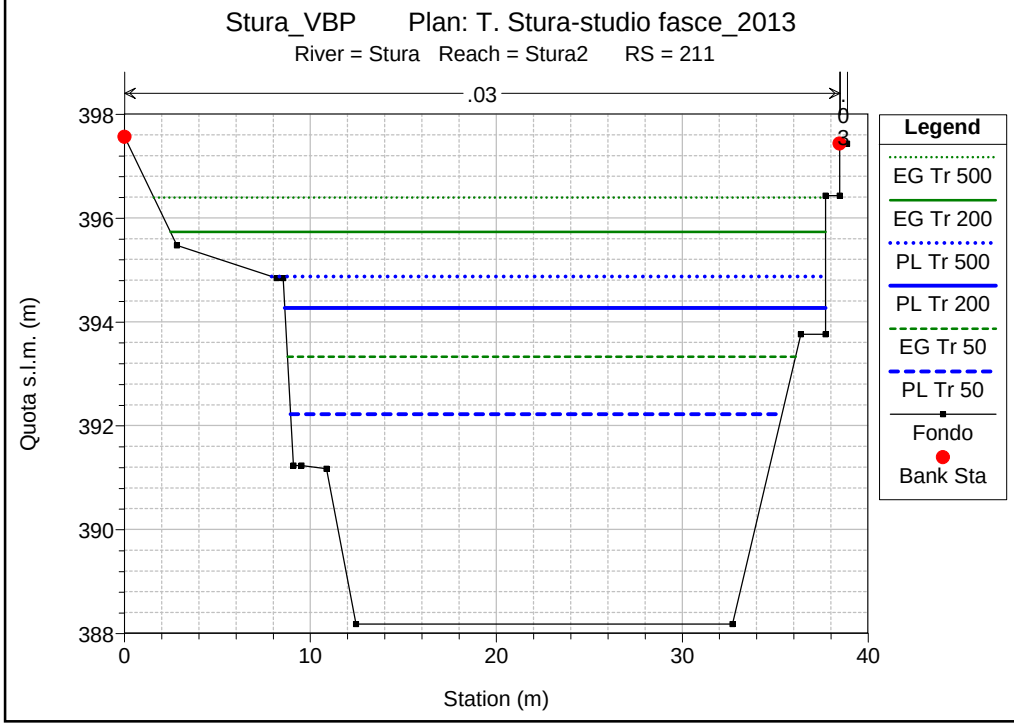
Stura_VBP Plan: T. Stura-studio fasce_2013

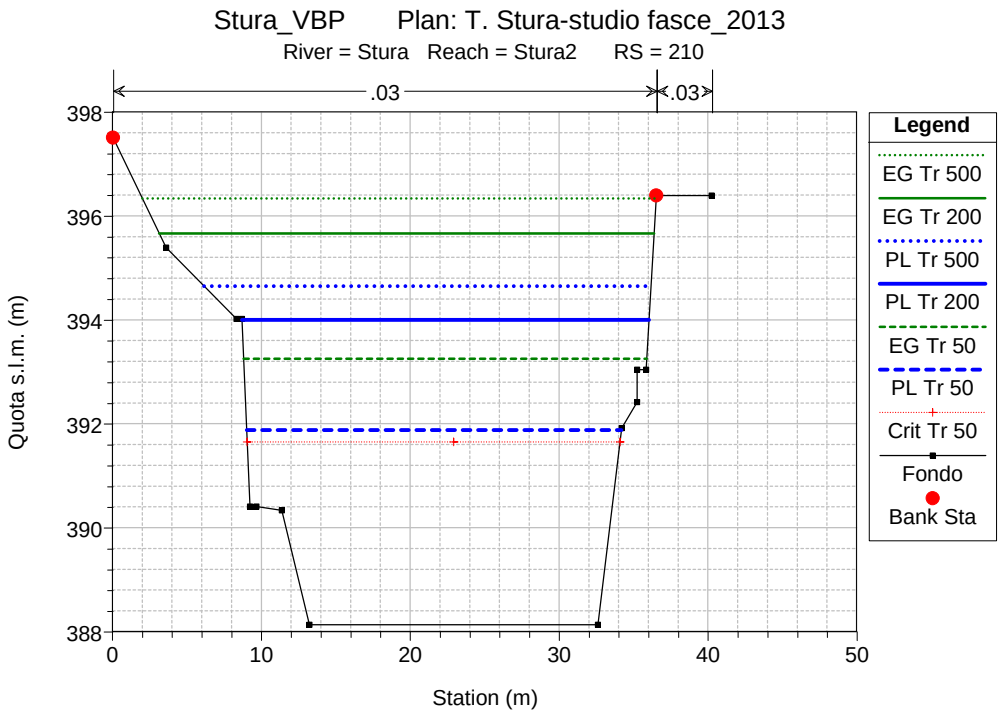
River = Stura Reach = Stura2 RS = 214




Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 213
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

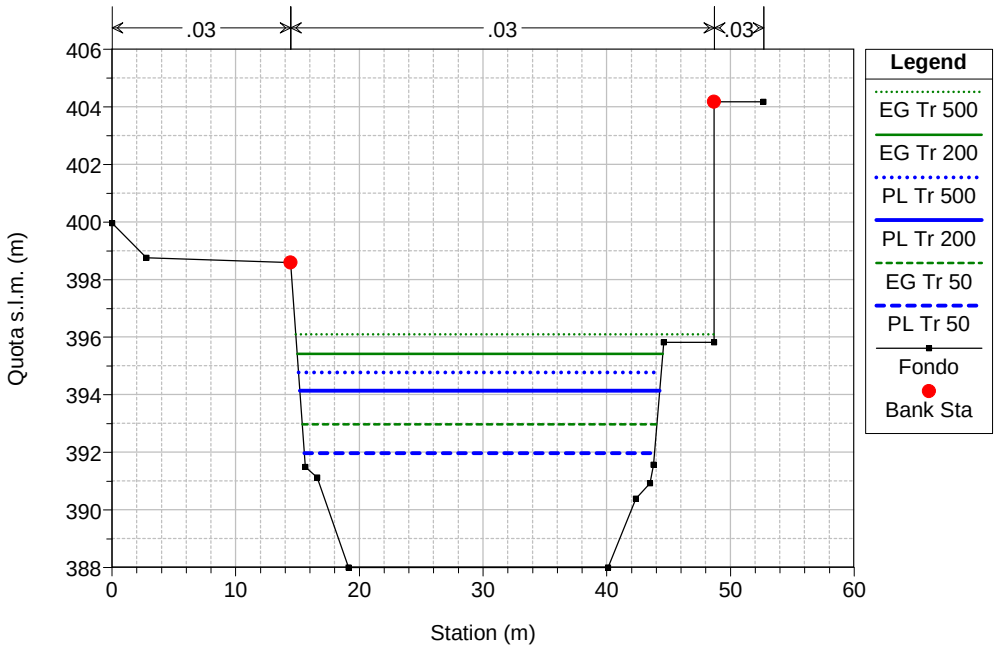

Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 212
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Bank Sta


Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 211
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Fondo
Bank Sta


Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 210
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Bank Sta

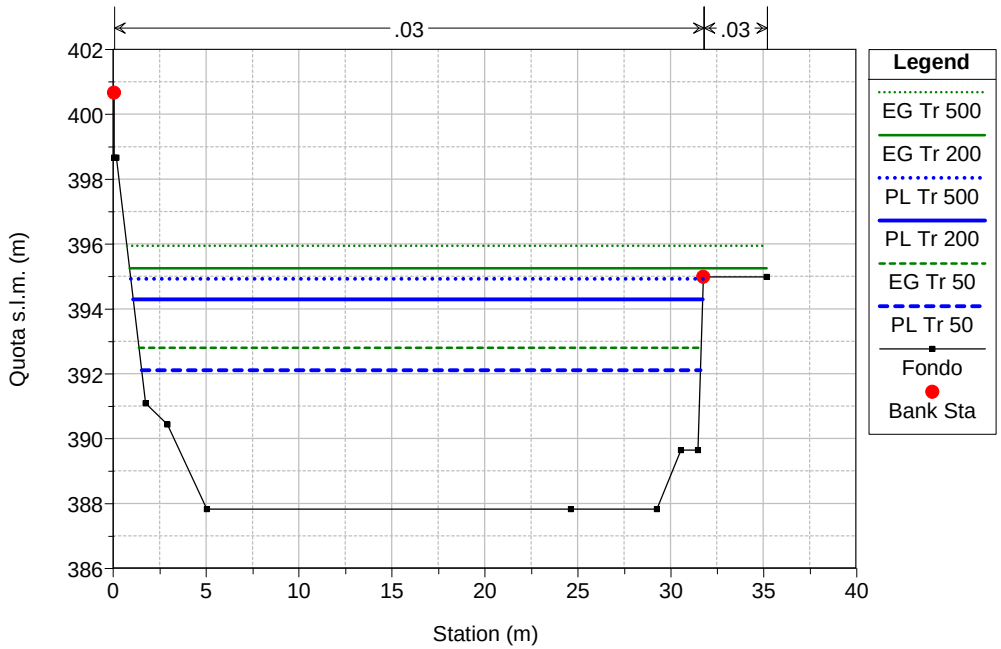
Stura_VBP Plan: T. Stura-studio fasce_2013

River = Stura Reach = Stura2 RS = 209



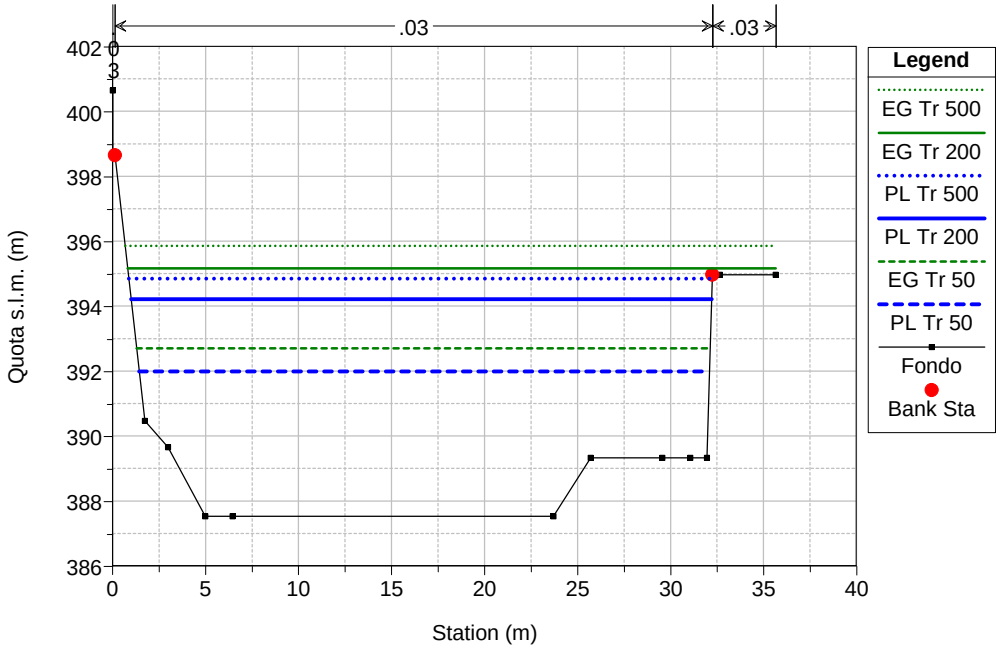
Stura_VBP Plan: T. Stura-studio fasce_2013

River = Stura Reach = Stura2 RS = 208



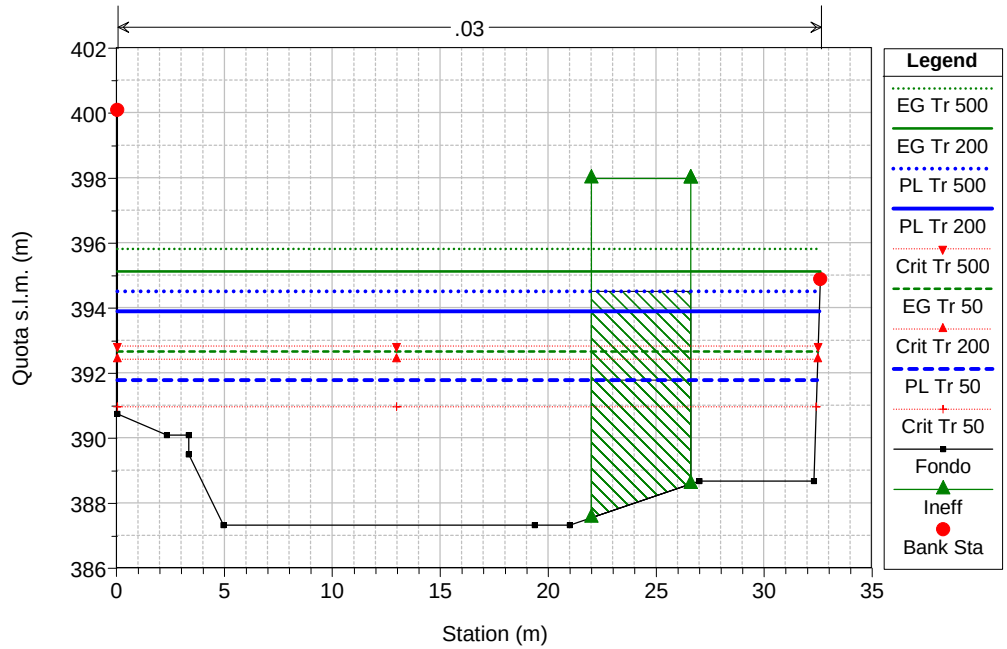
Stura_VBP Plan: T. Stura-studio fasce_2013

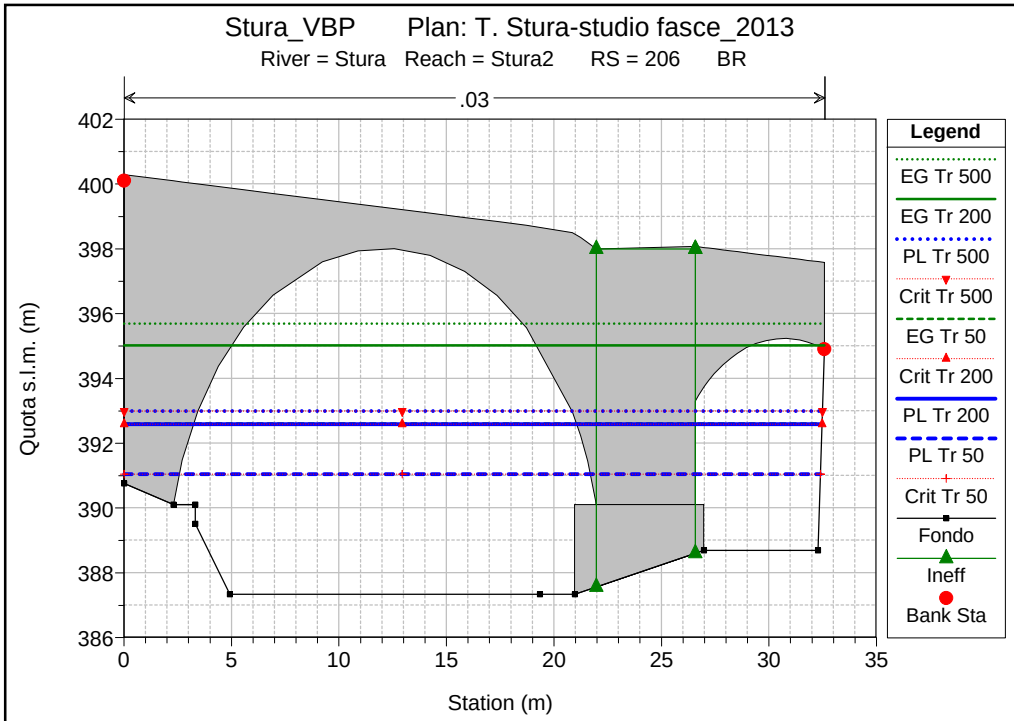
River = Stura Reach = Stura2 RS = 207

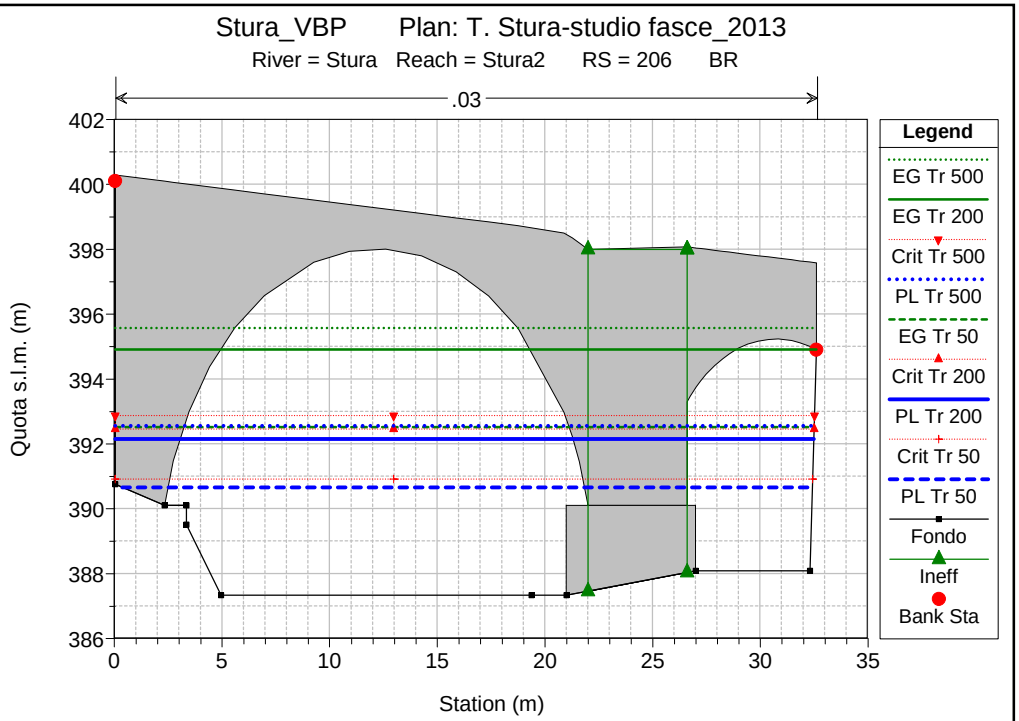


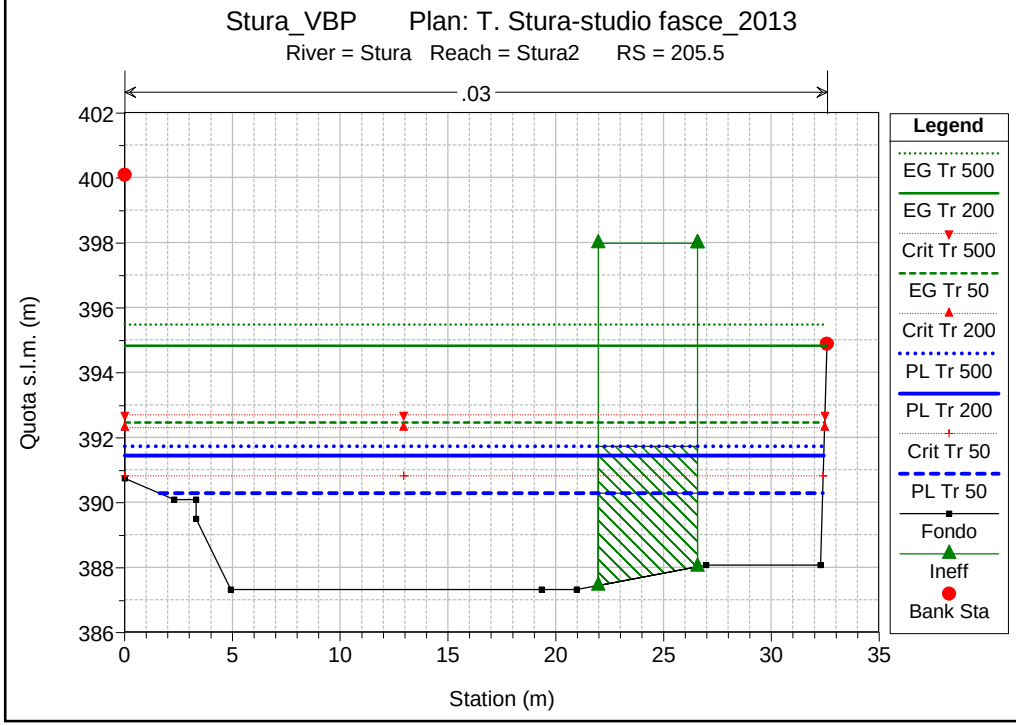
Stura_VBP Plan: T. Stura-studio fasce_2013

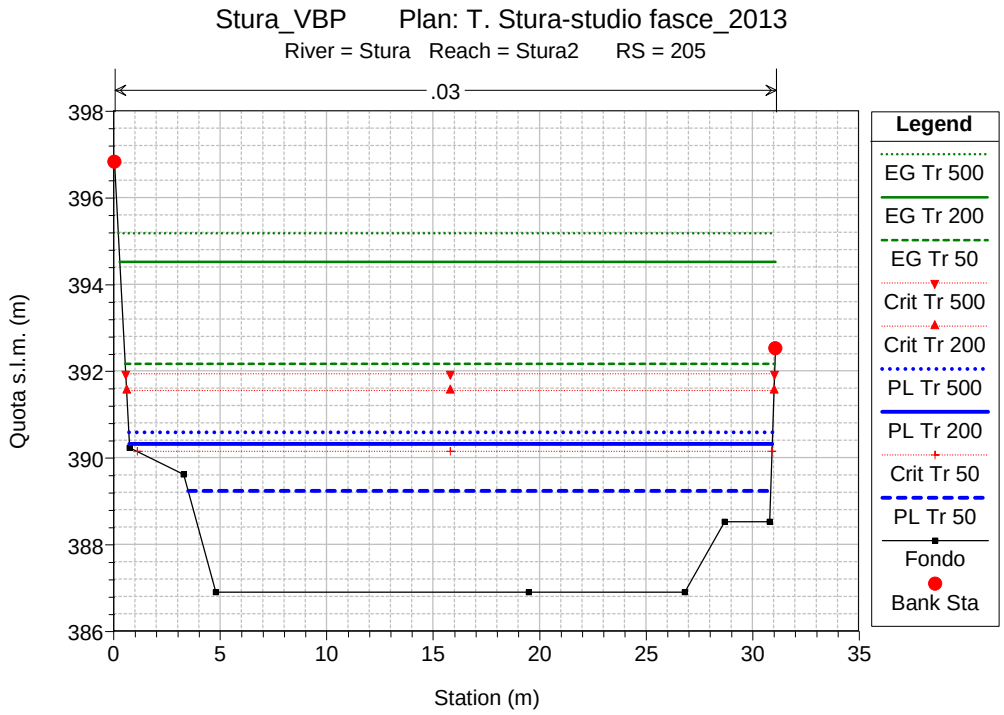
River = Stura Reach = Stura2 RS = 206.5

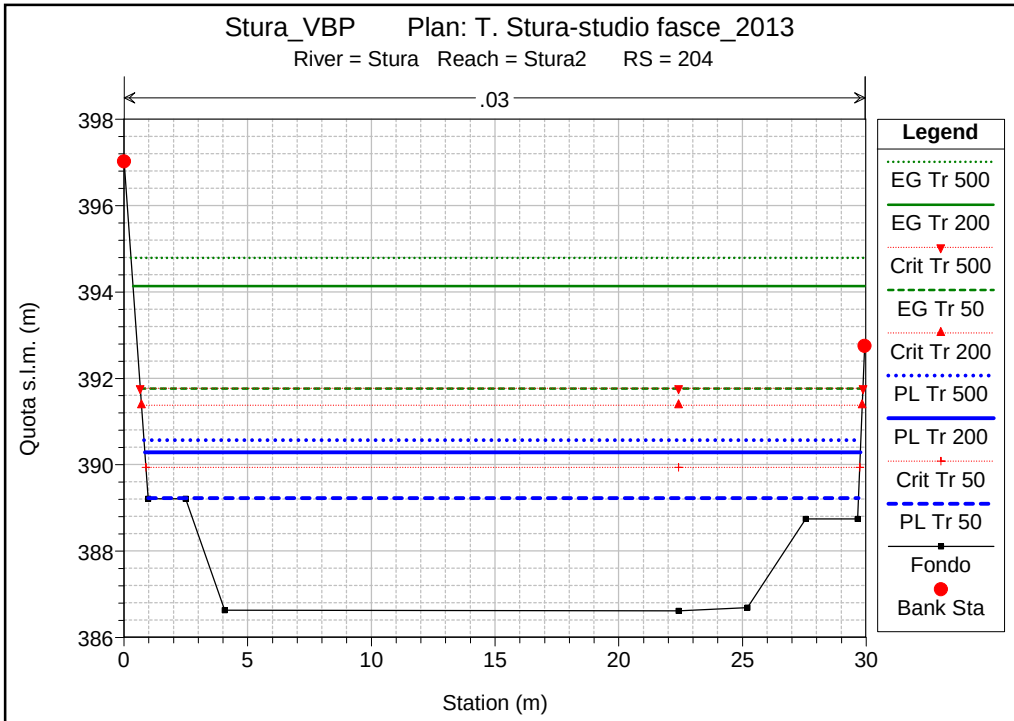


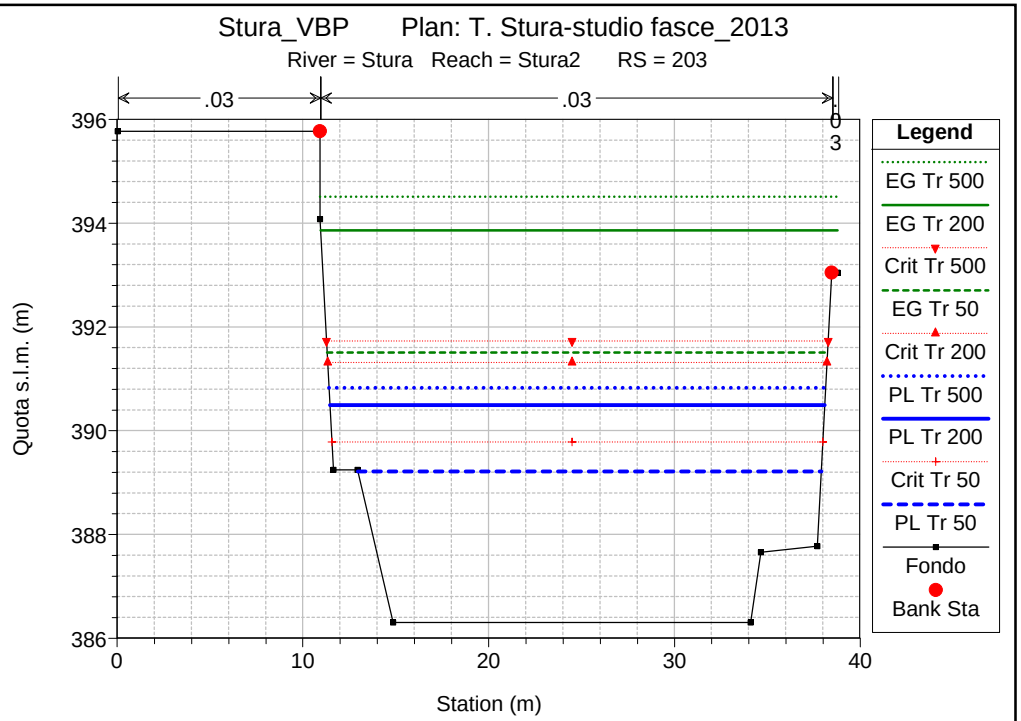

Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 206 BR
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Ineff
Bank Sta

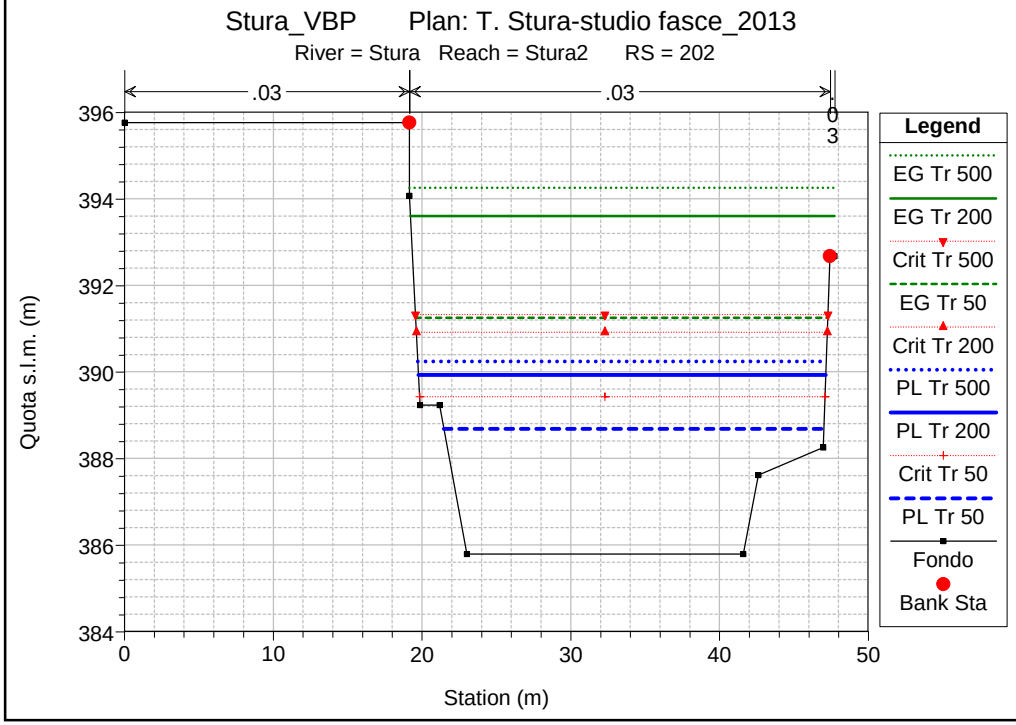

Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 206 BR
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
PL Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Ineff
Bank Sta

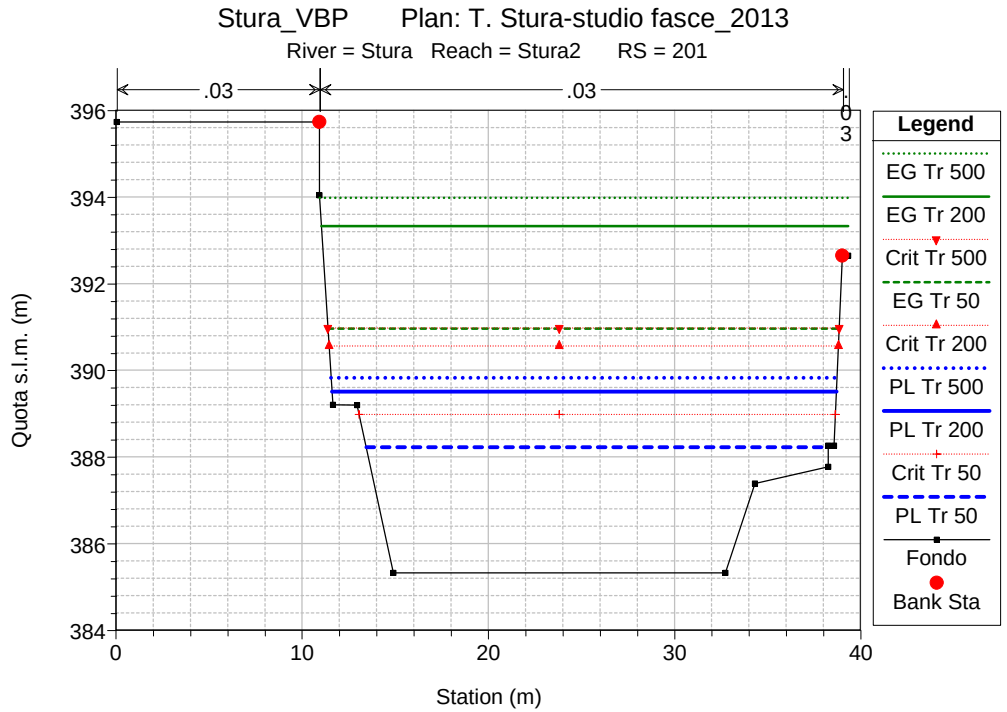

Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 205.5
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Ineff
Bank Sta

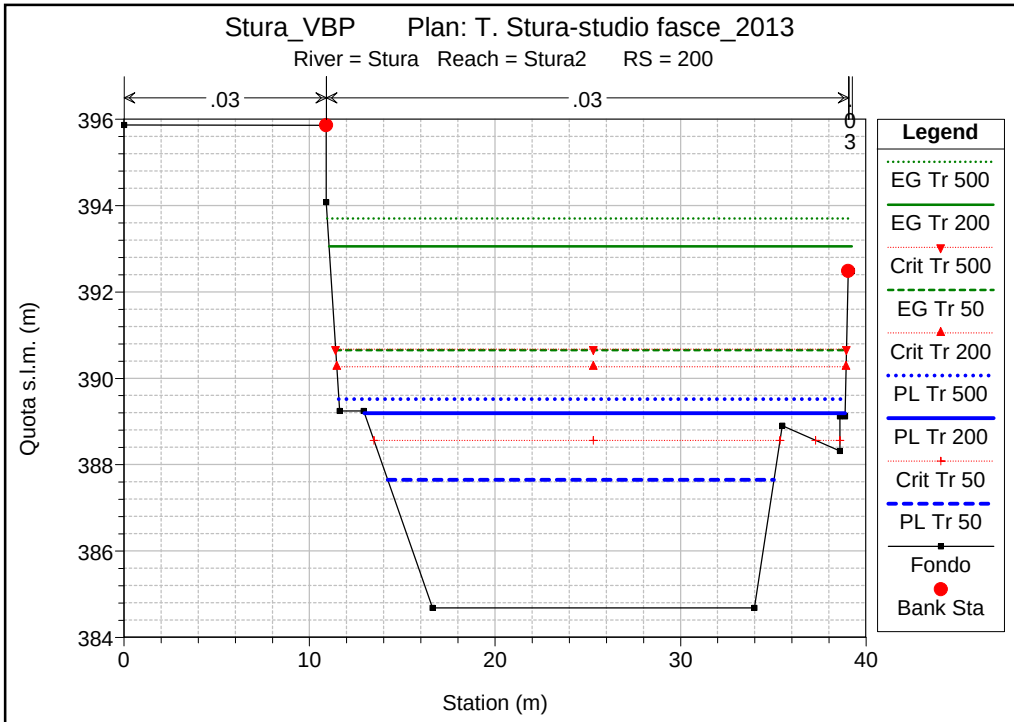

Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 205
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Bank Sta

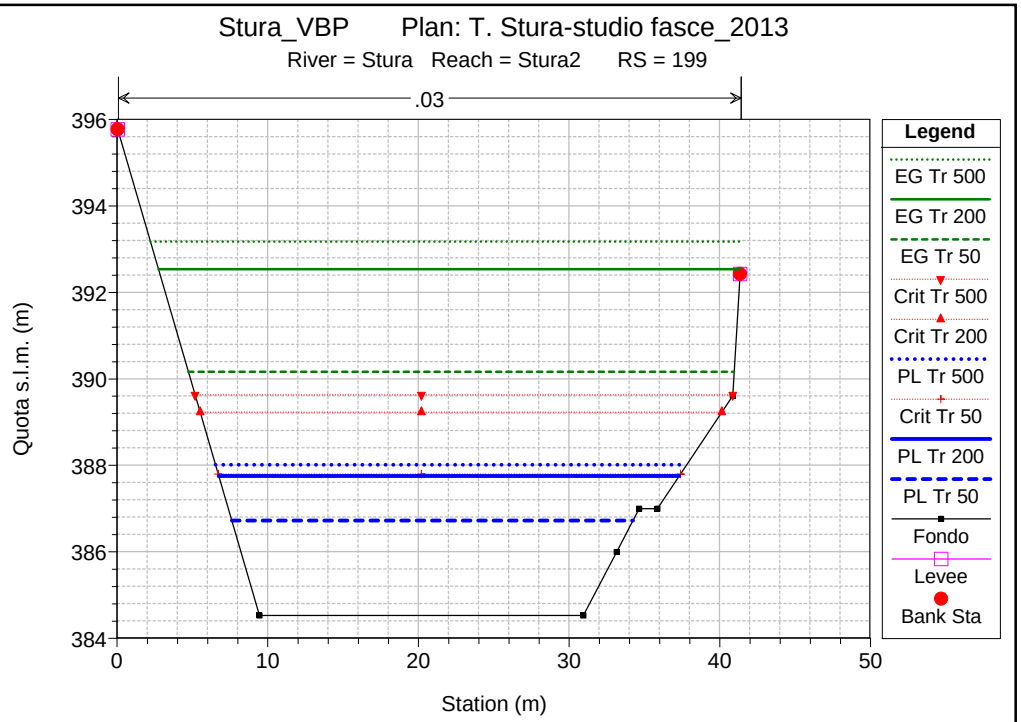

Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 204
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Bank Sta

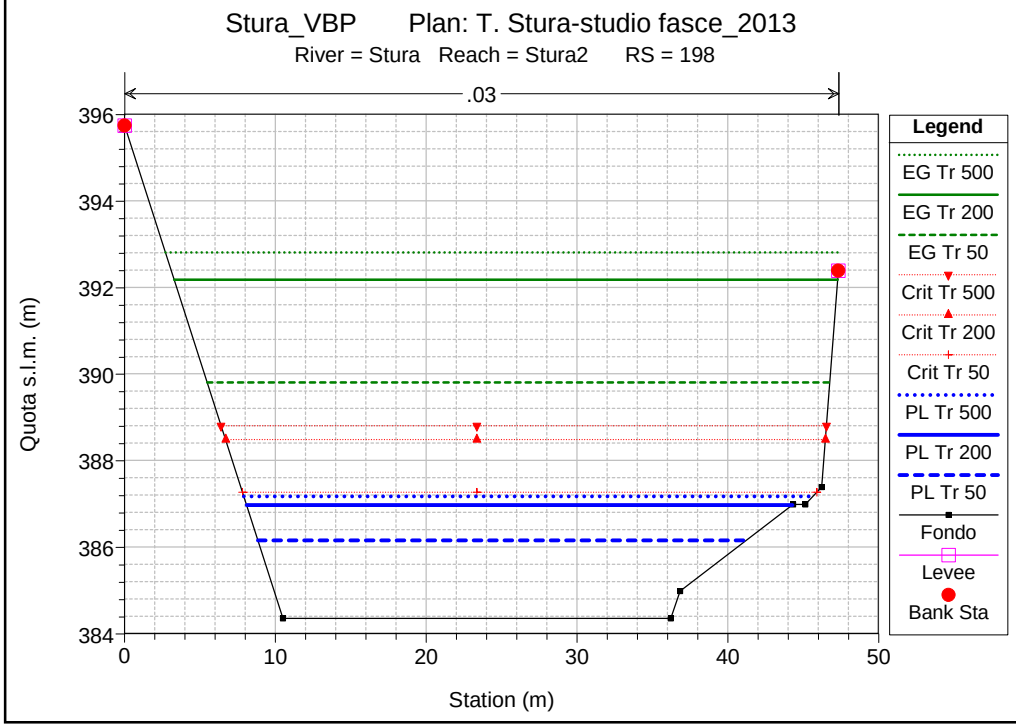

Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 203
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Bank Sta

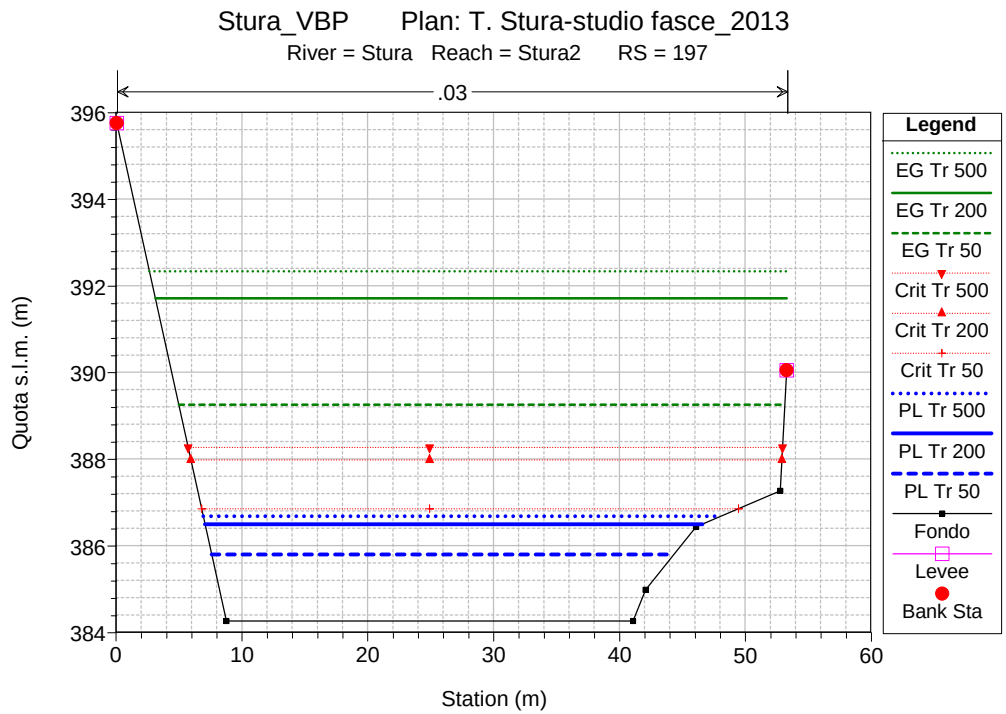

Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 202
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Bank Sta

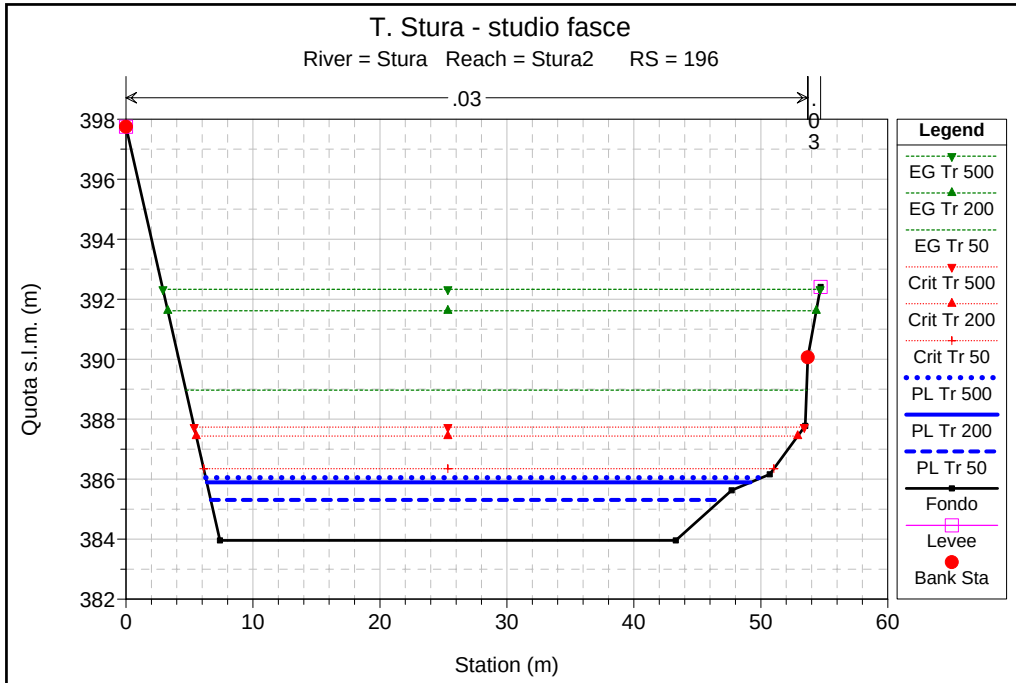

Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 201
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Bank Sta

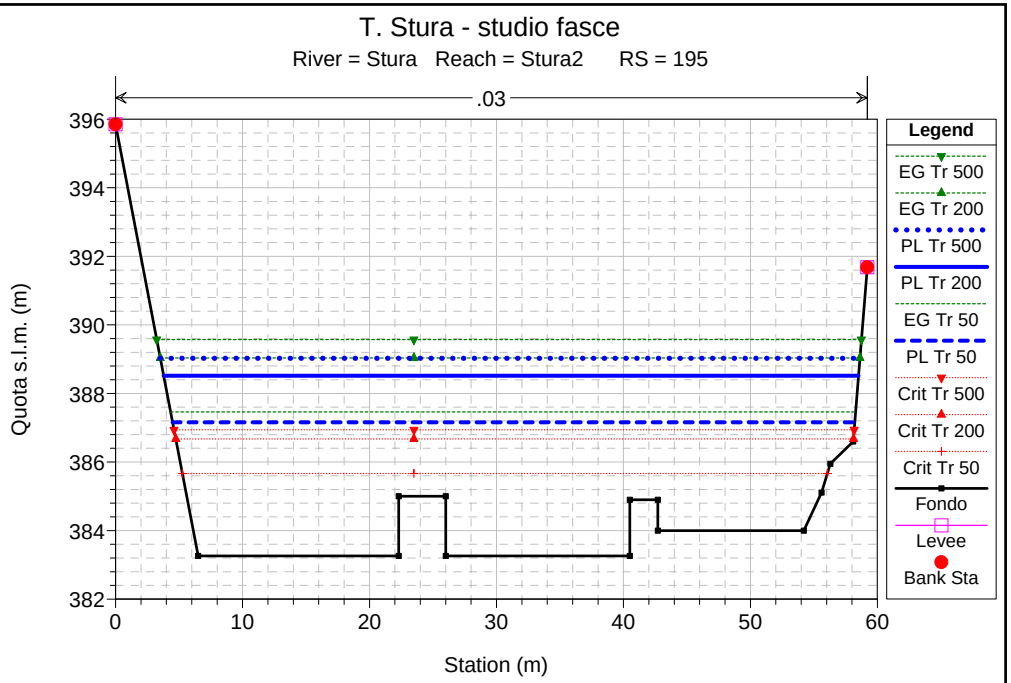

Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 200
.03
.03
0
3
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Bank Sta

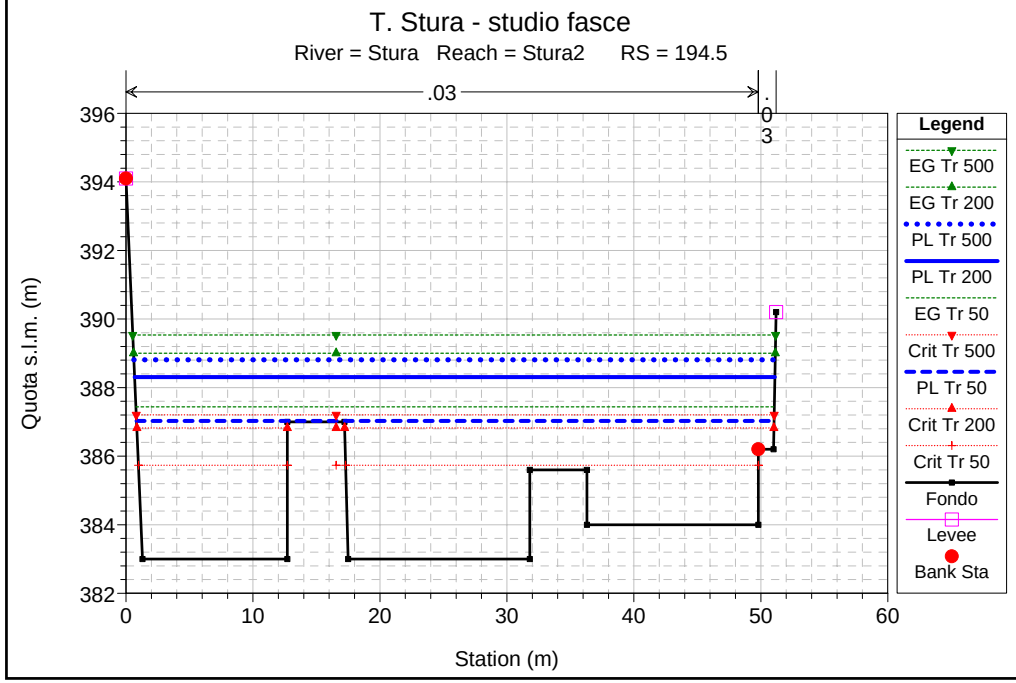

Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 199
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

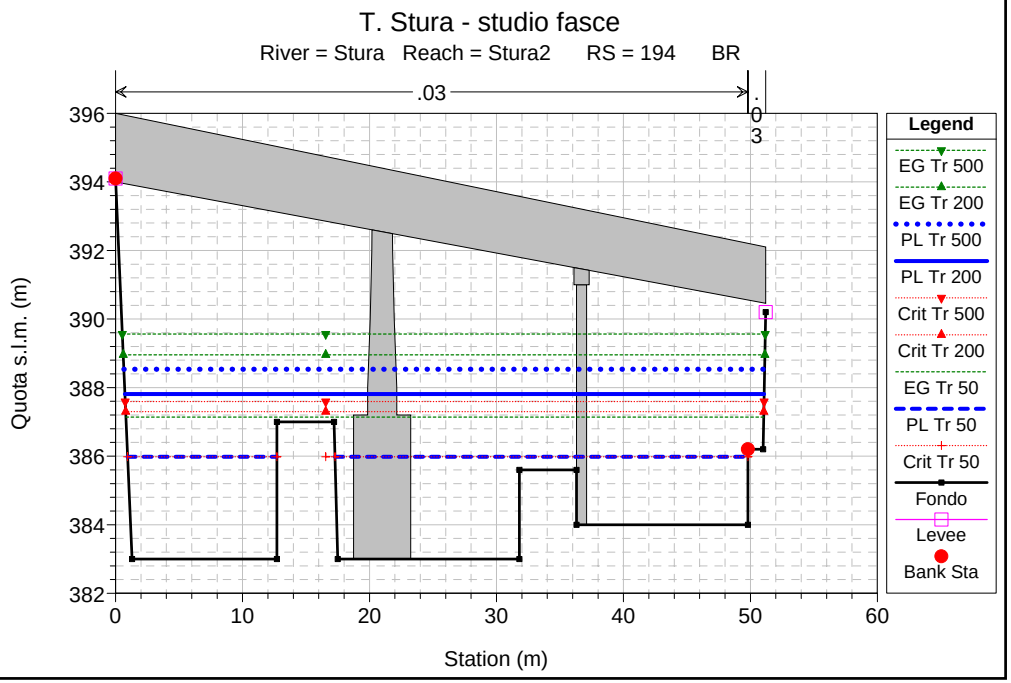

Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 198
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta


Stura_VBP Plan: T. Stura-studio fasce_2013
River = Stura Reach = Stura2 RS = 197
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 196
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

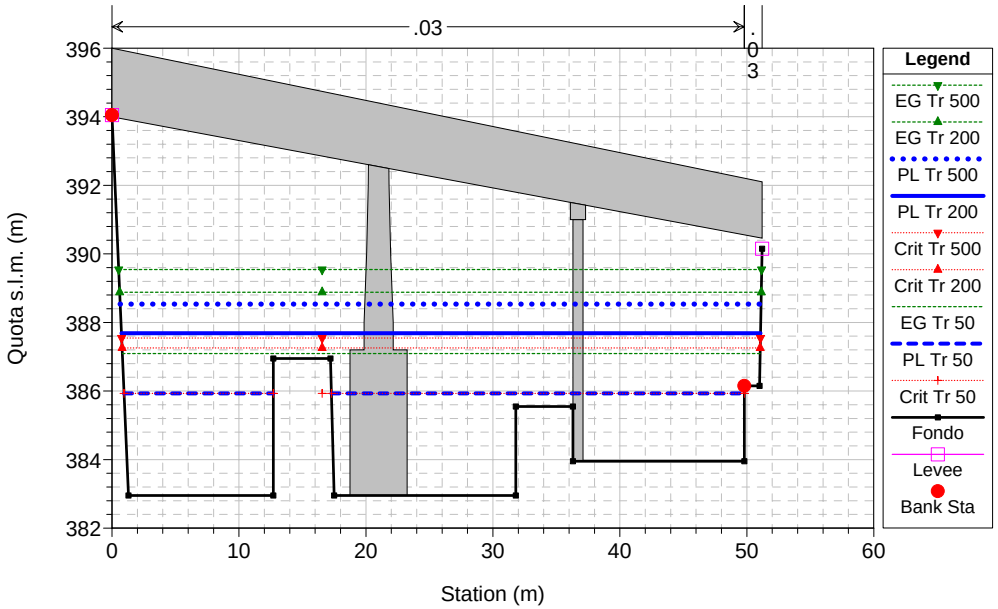

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 195
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 194.5
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 194 BR
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

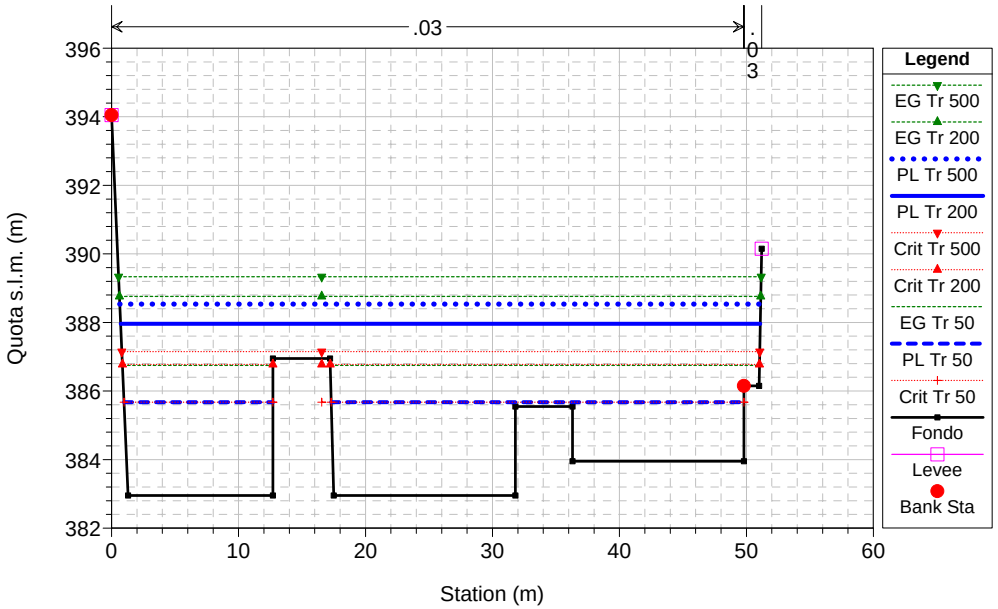
T. Stura - studio fasce

River = Stura Reach = Stura2 RS = 194 BR



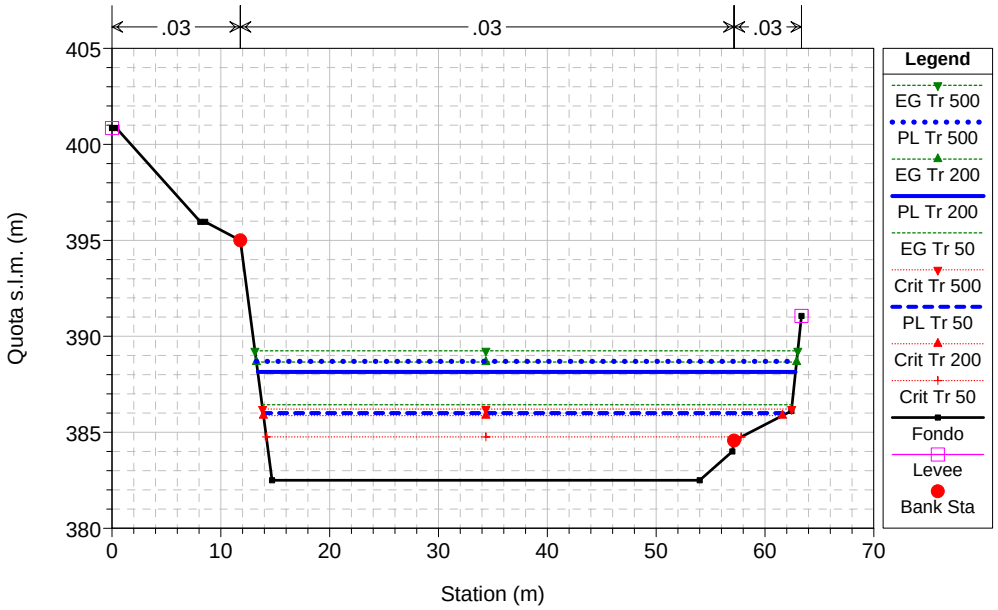
T. Stura - studio fasce

River = Stura Reach = Stura2 RS = 193.5



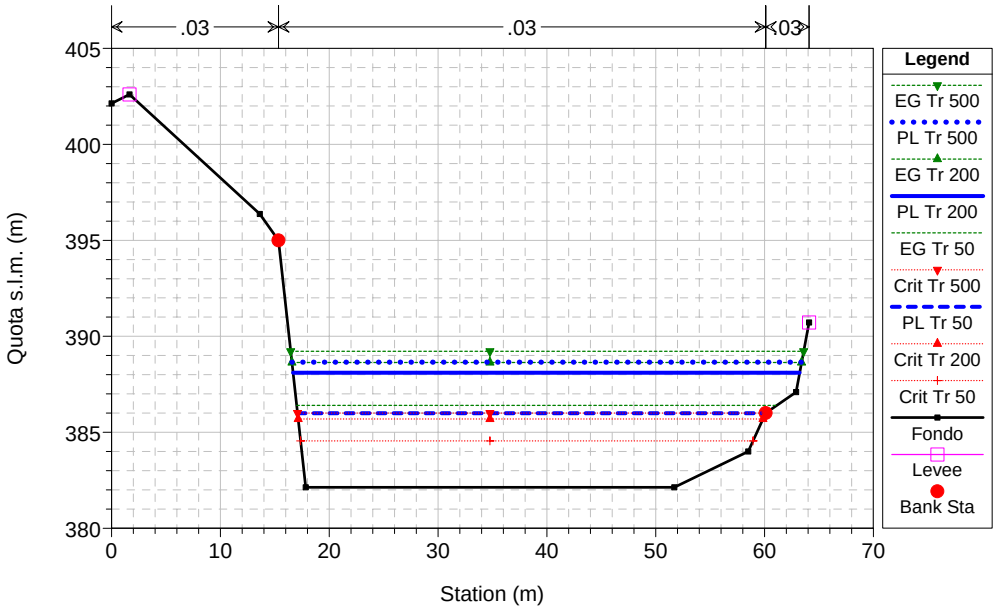
T. Stura - studio fasce

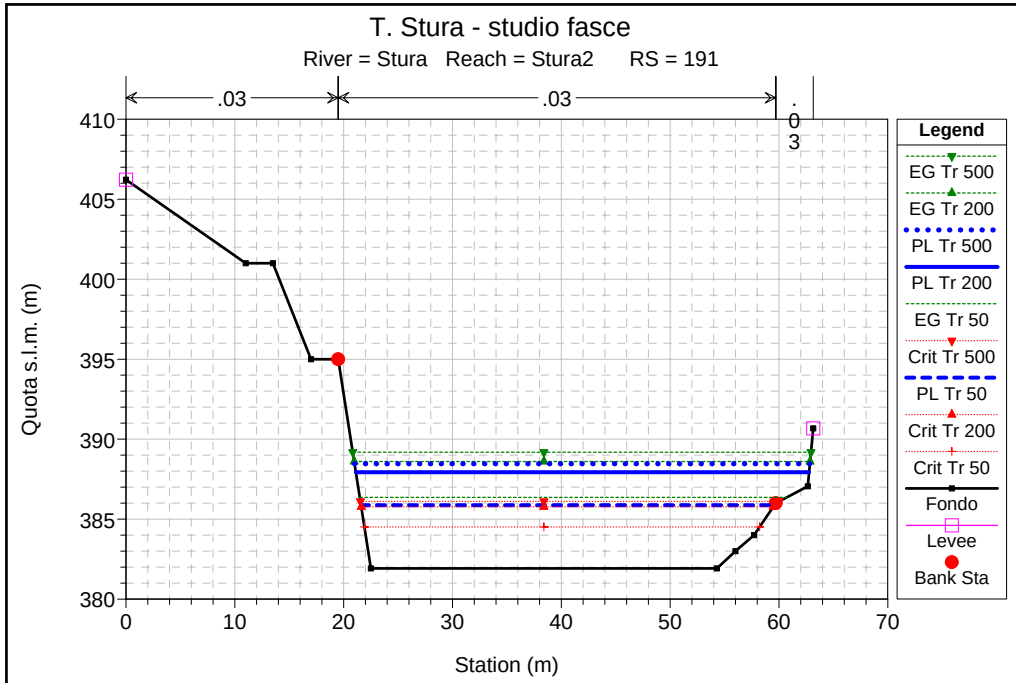
River = Stura Reach = Stura2 RS = 193

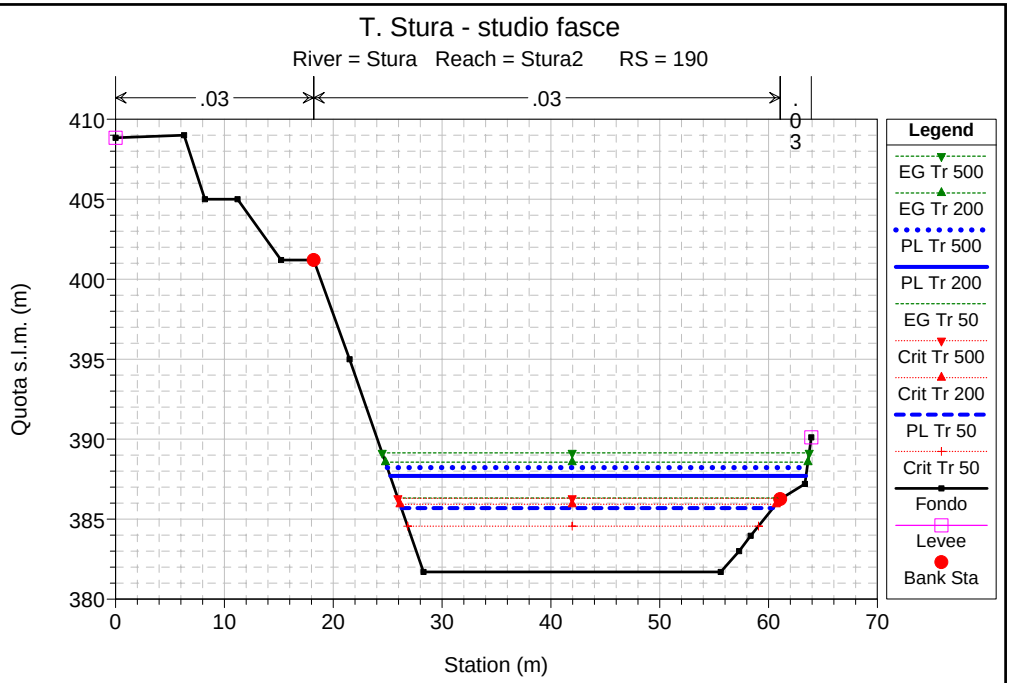


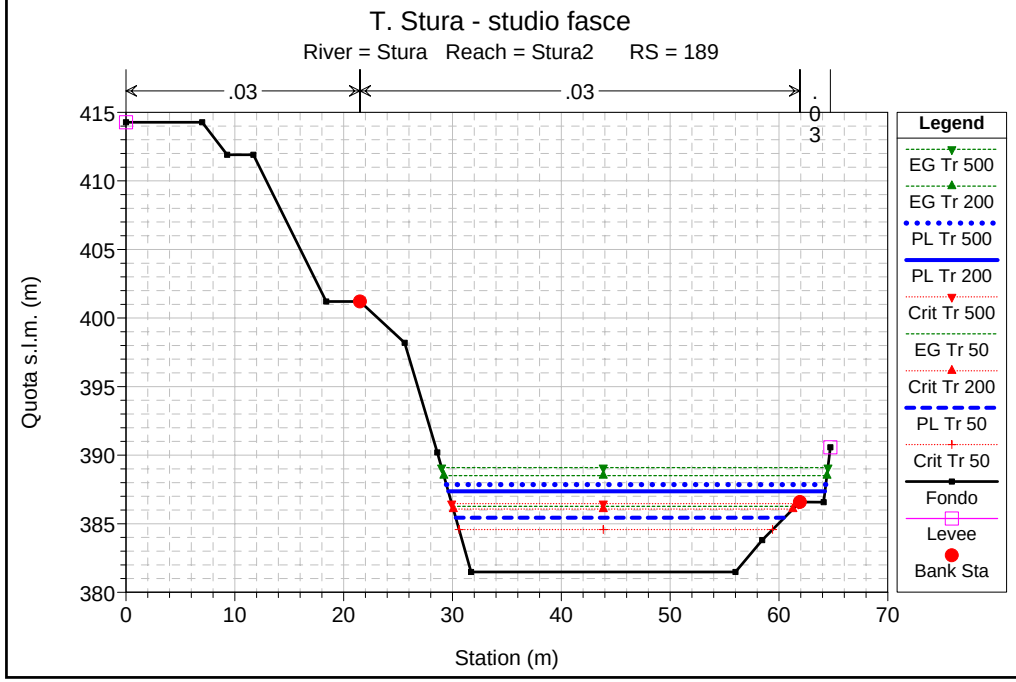
T. Stura - studio fasce

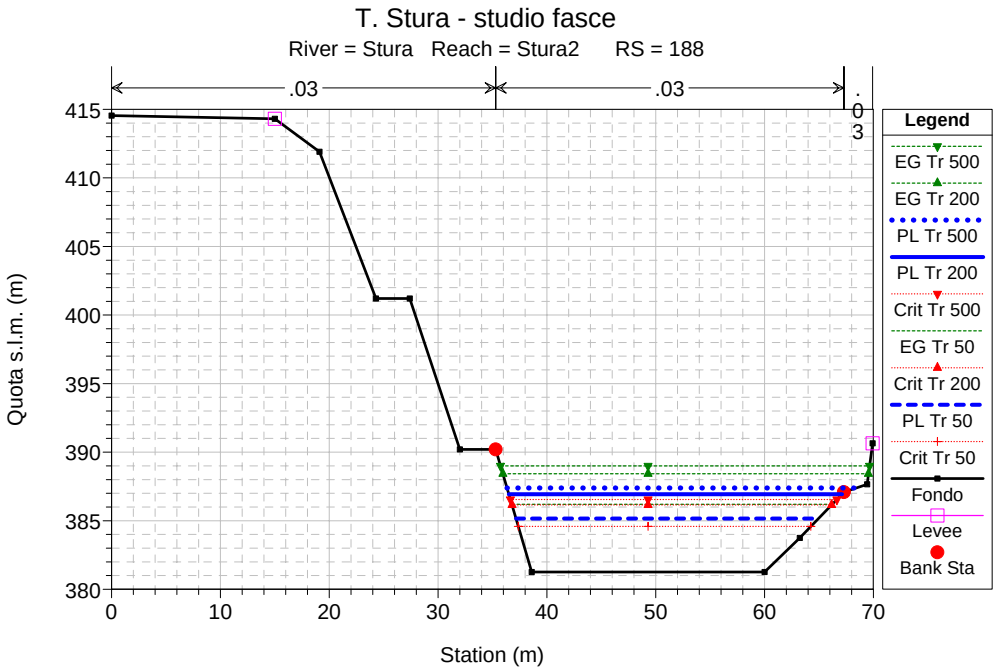
River = Stura Reach = Stura2 RS = 192

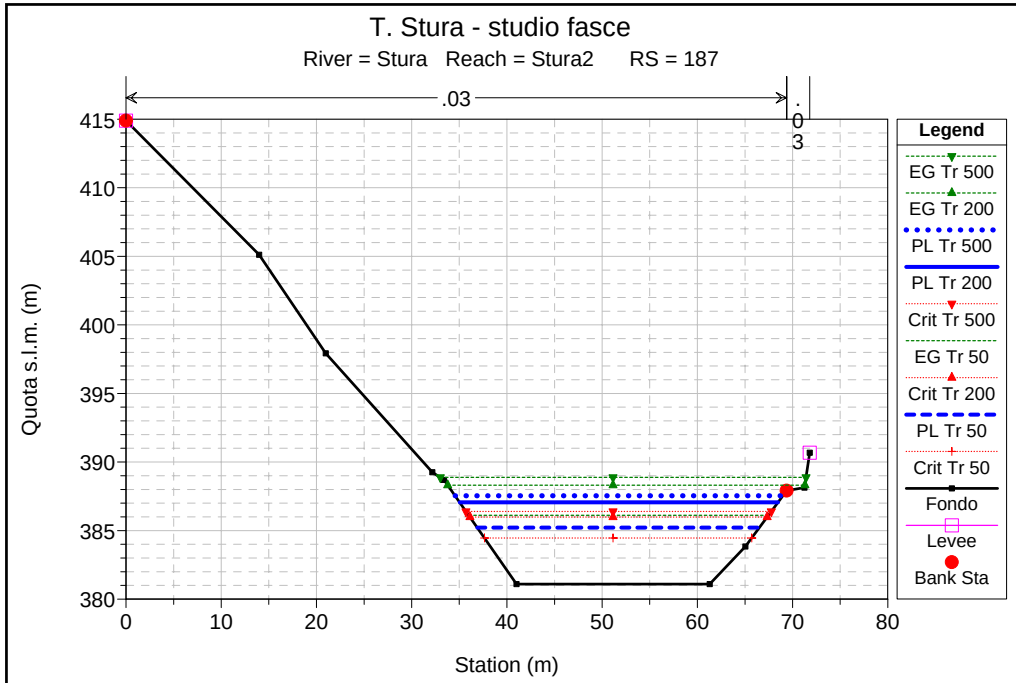


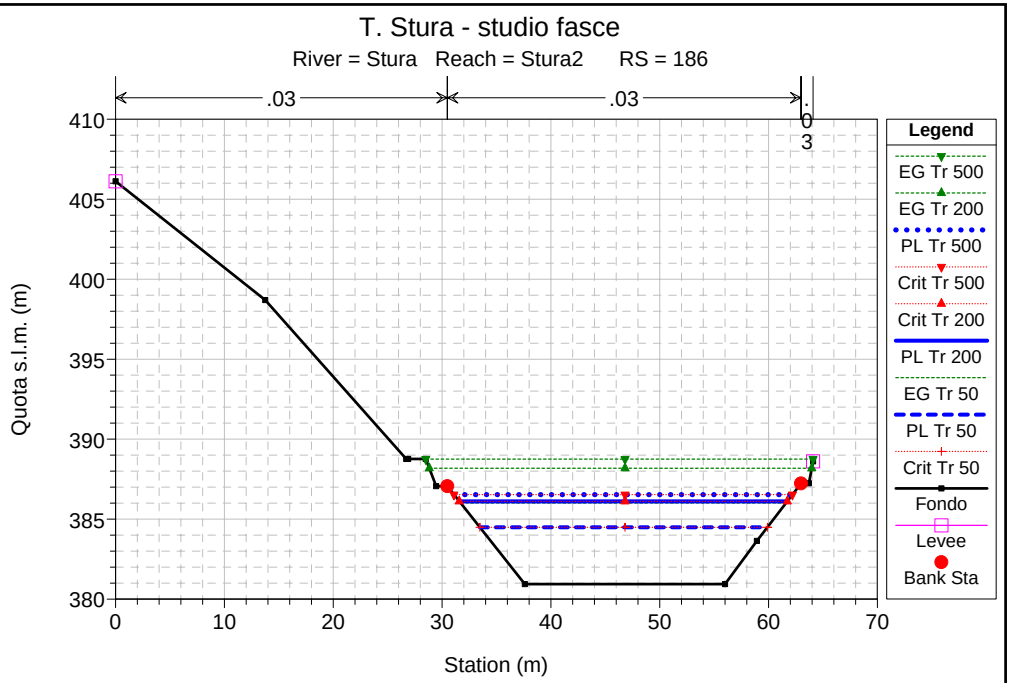

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 191
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta

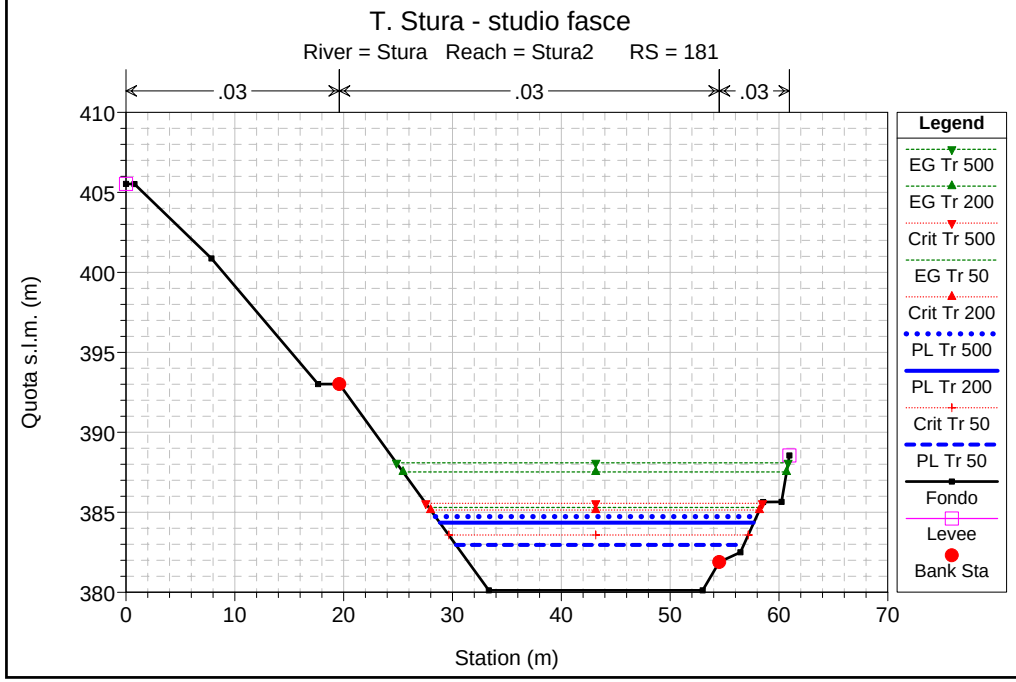

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 190
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

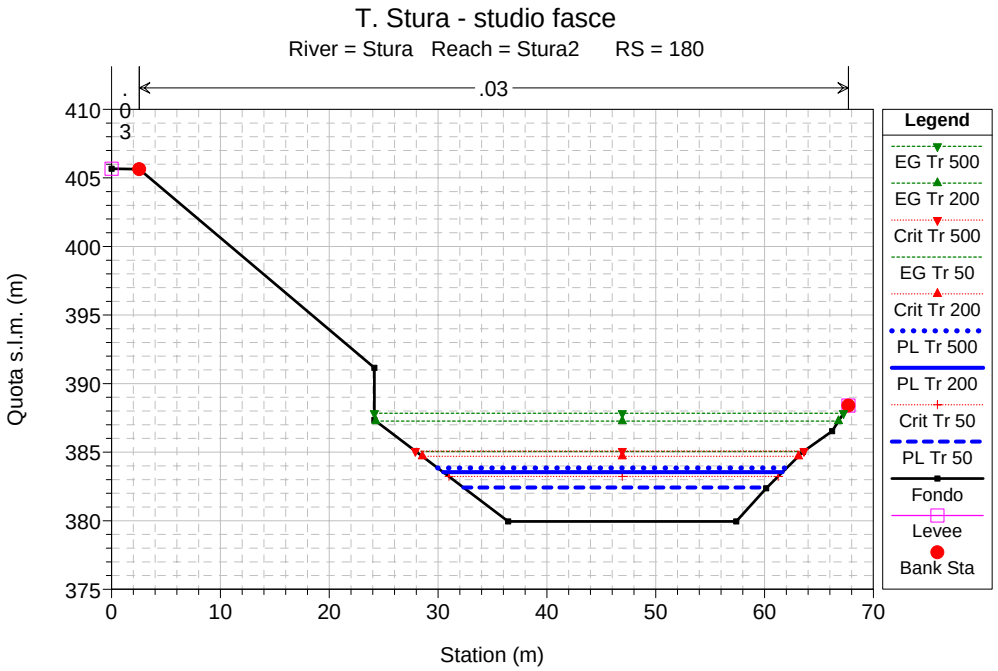

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 189
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

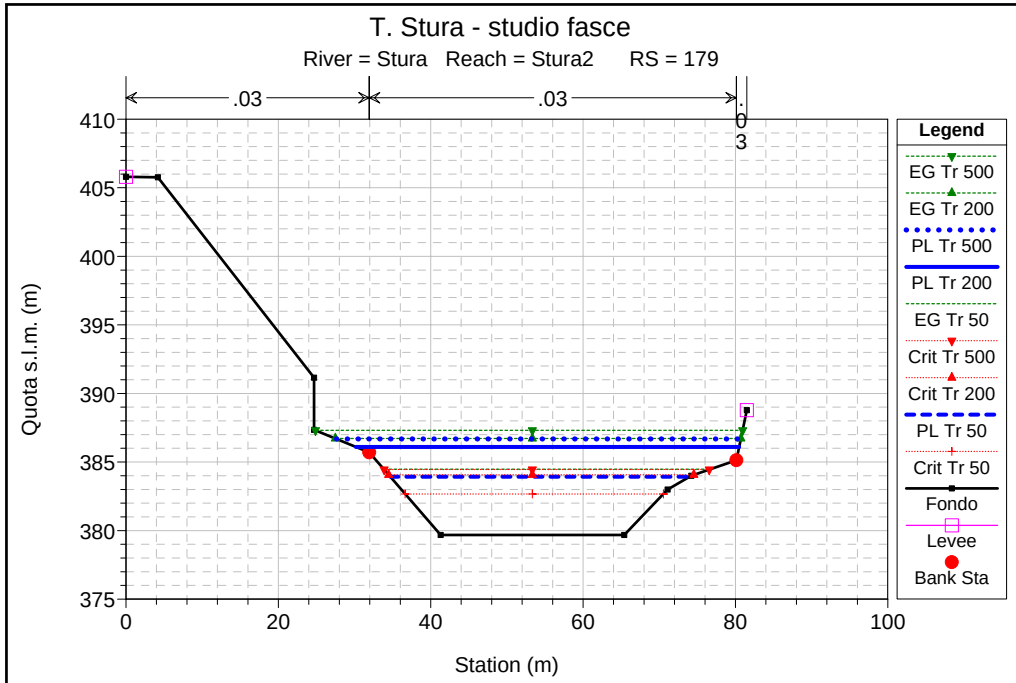

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 188
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

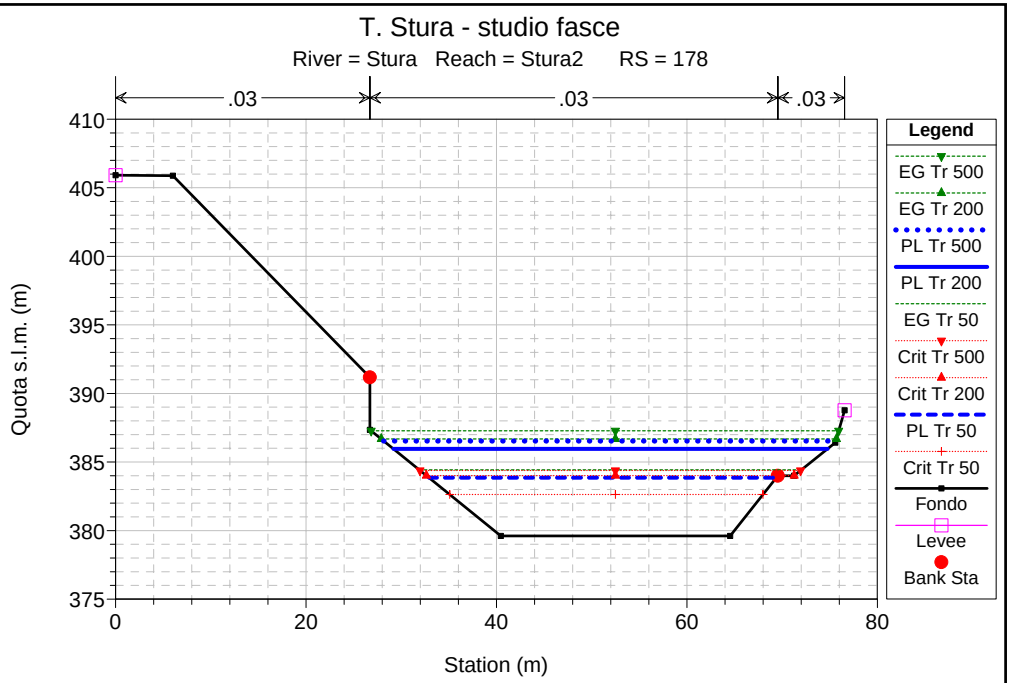

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 187
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

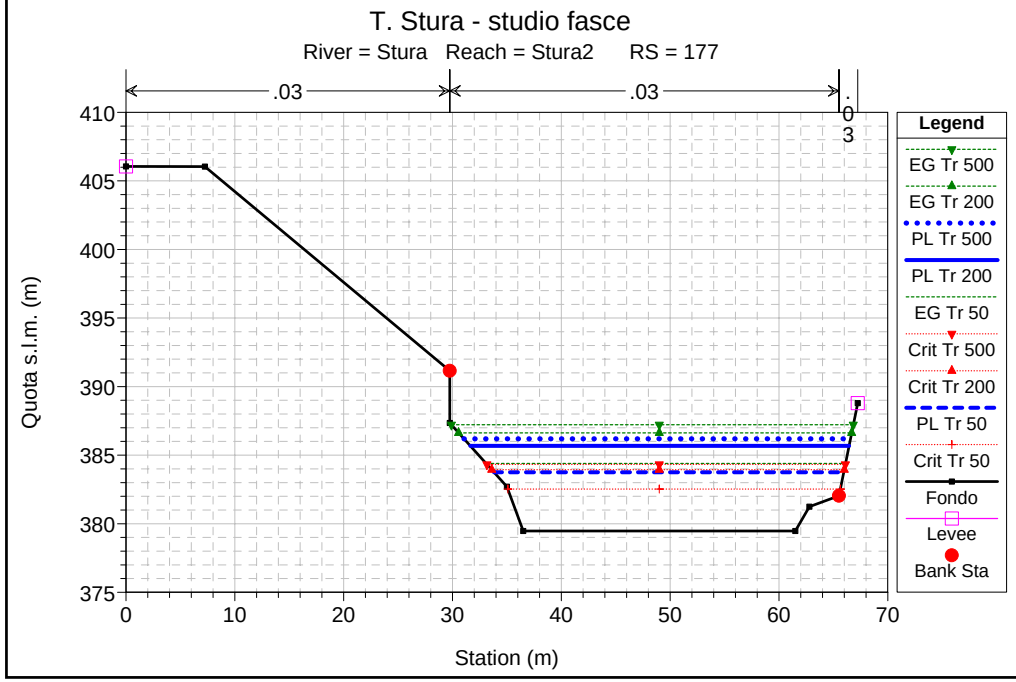

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 186
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

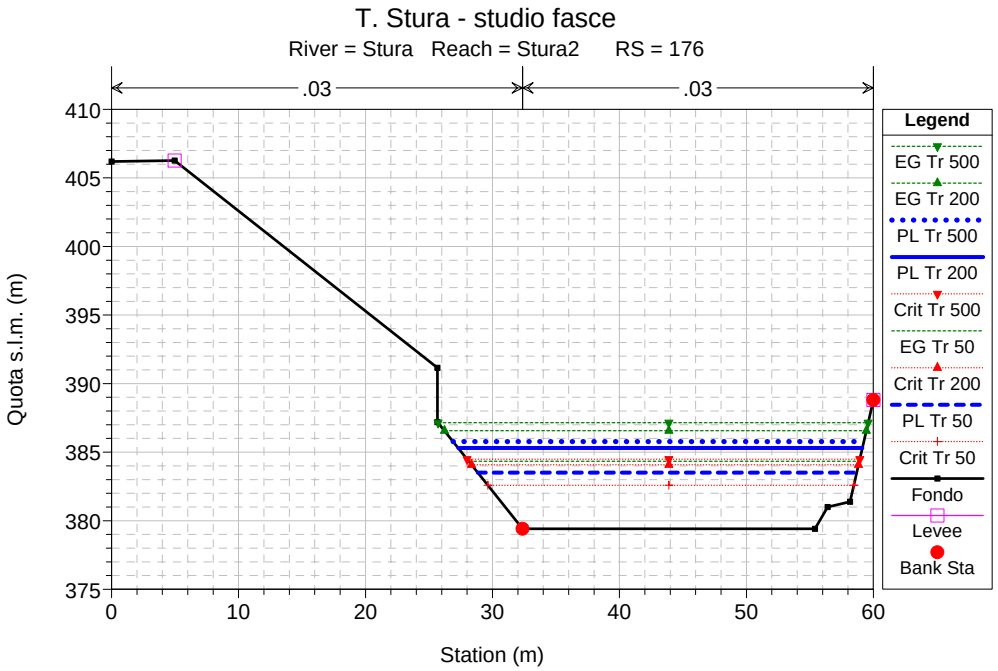

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 181
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

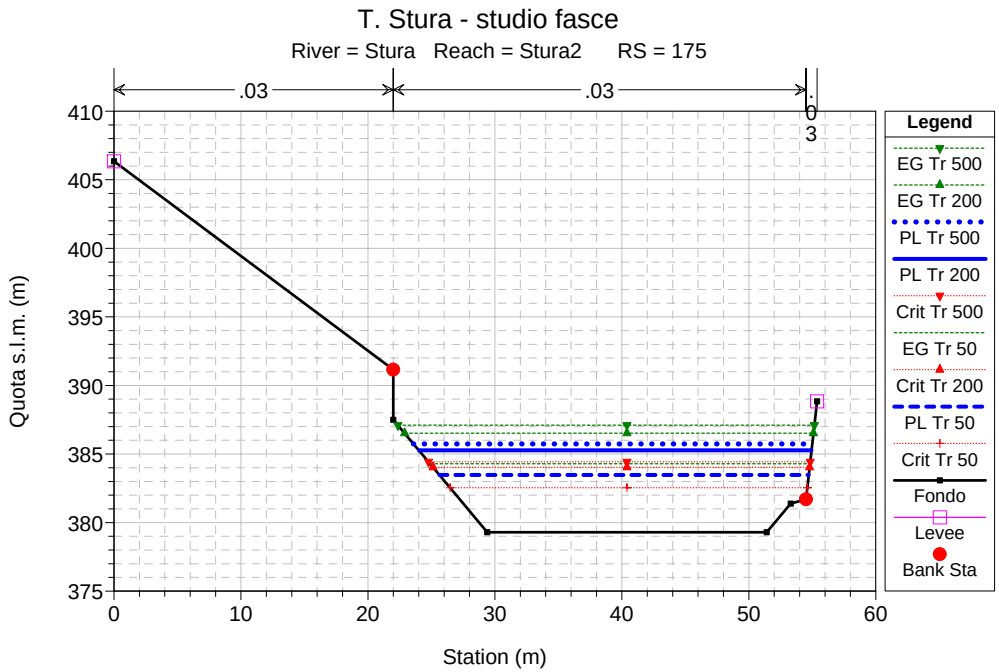

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 180
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

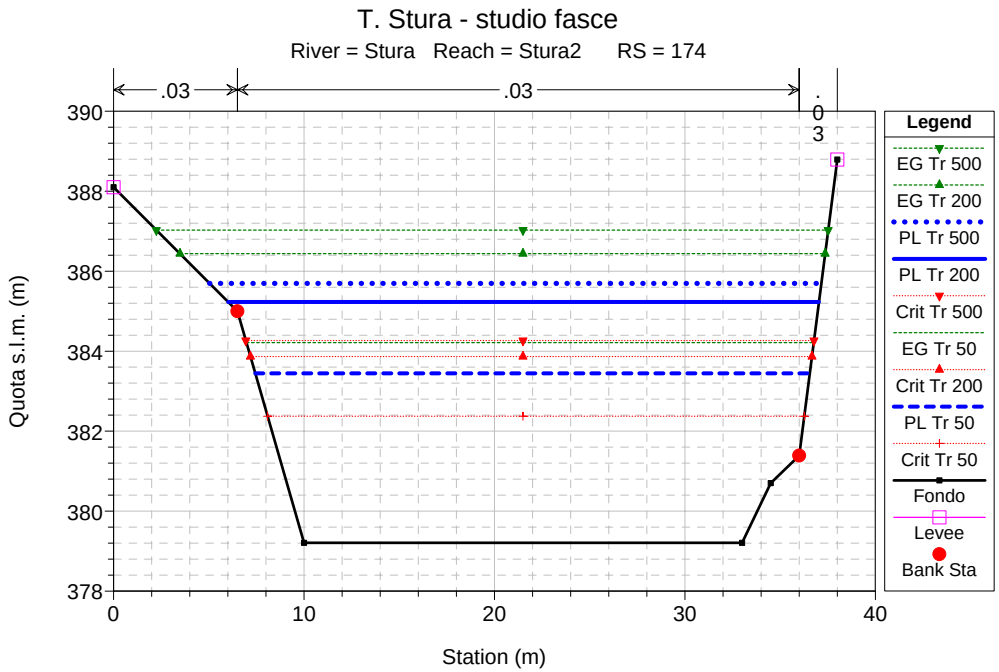

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 179
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

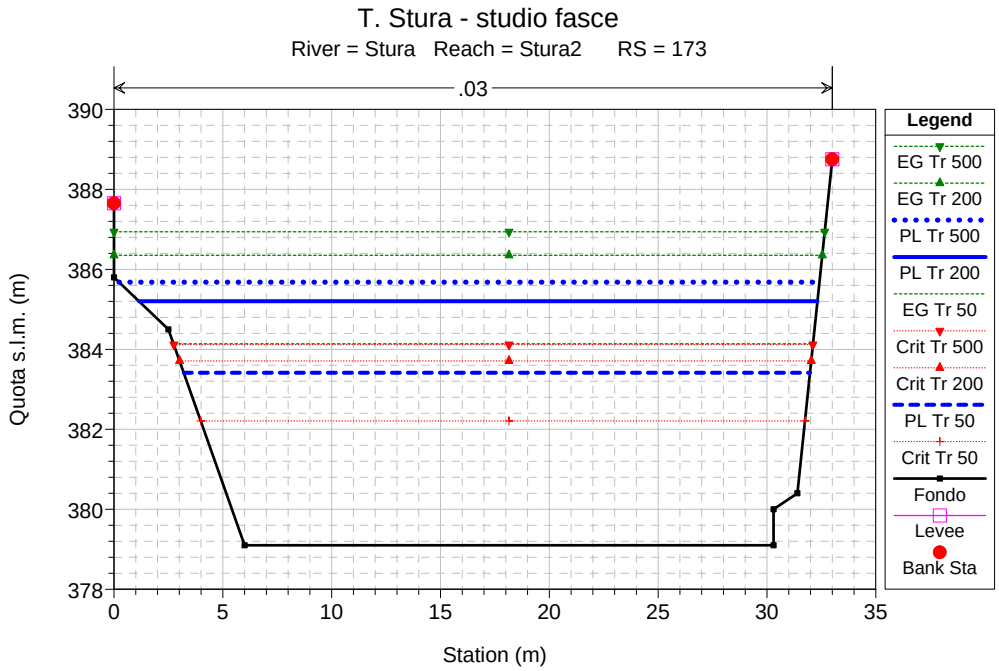

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 178
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

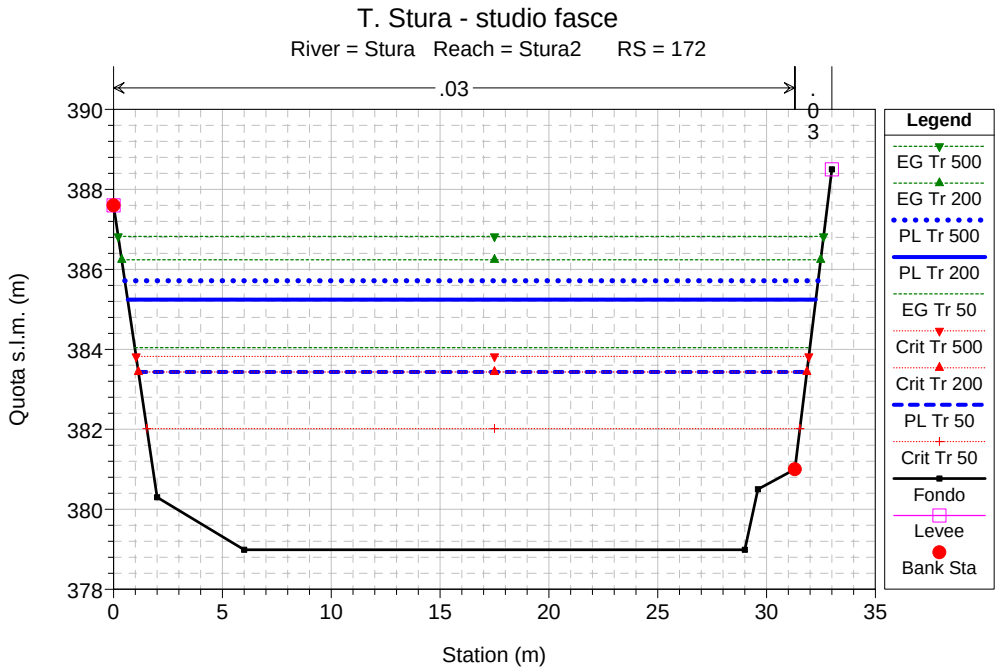

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 177
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 176
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 175
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

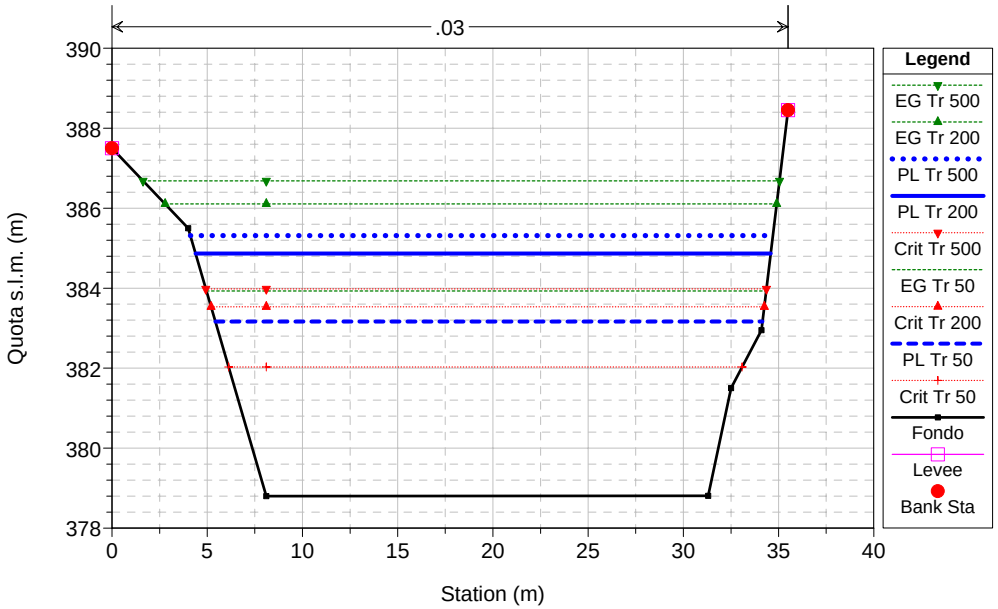

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 174
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 173
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 172
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

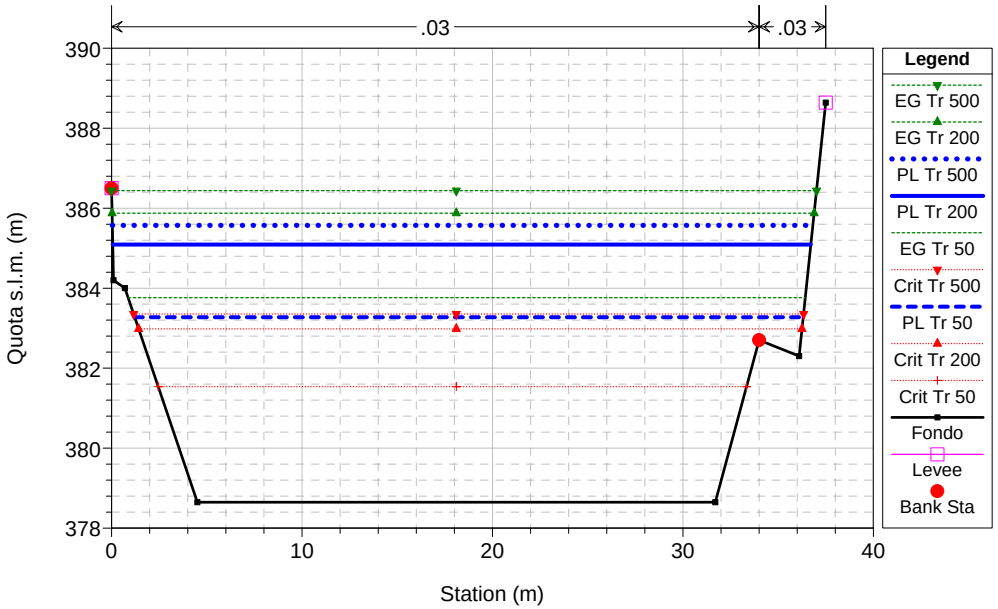
T. Stura - studio fasce

River = Stura Reach = Stura2 RS = 171



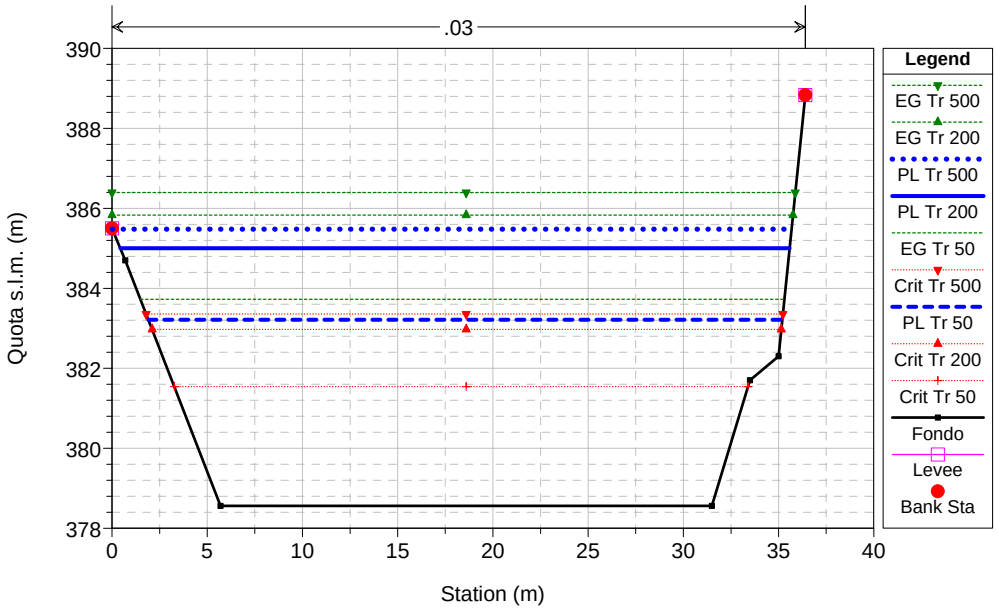
T. Stura - studio fasce

River = Stura Reach = Stura2 RS = 170



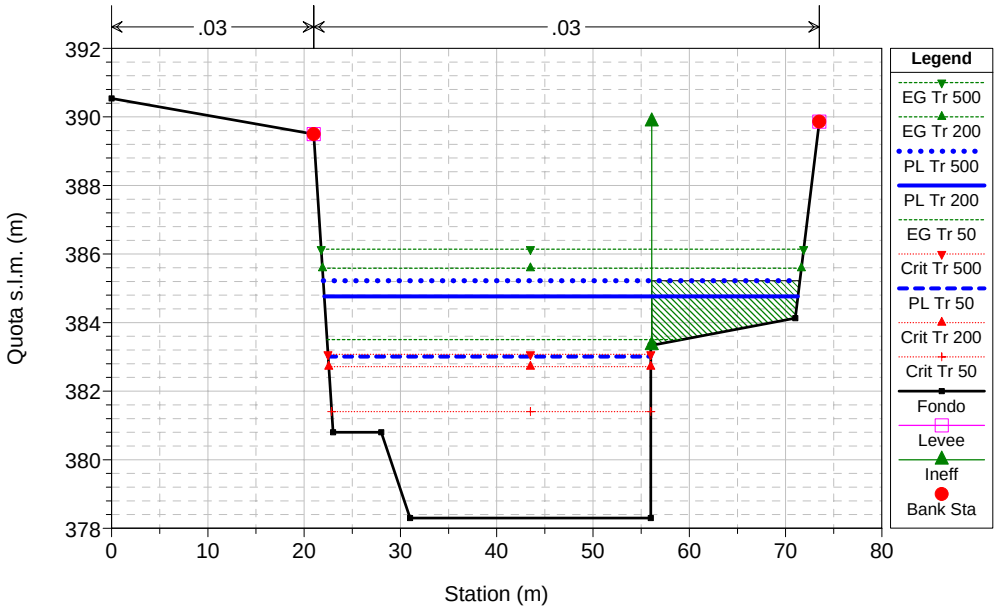
T. Stura - studio fasce

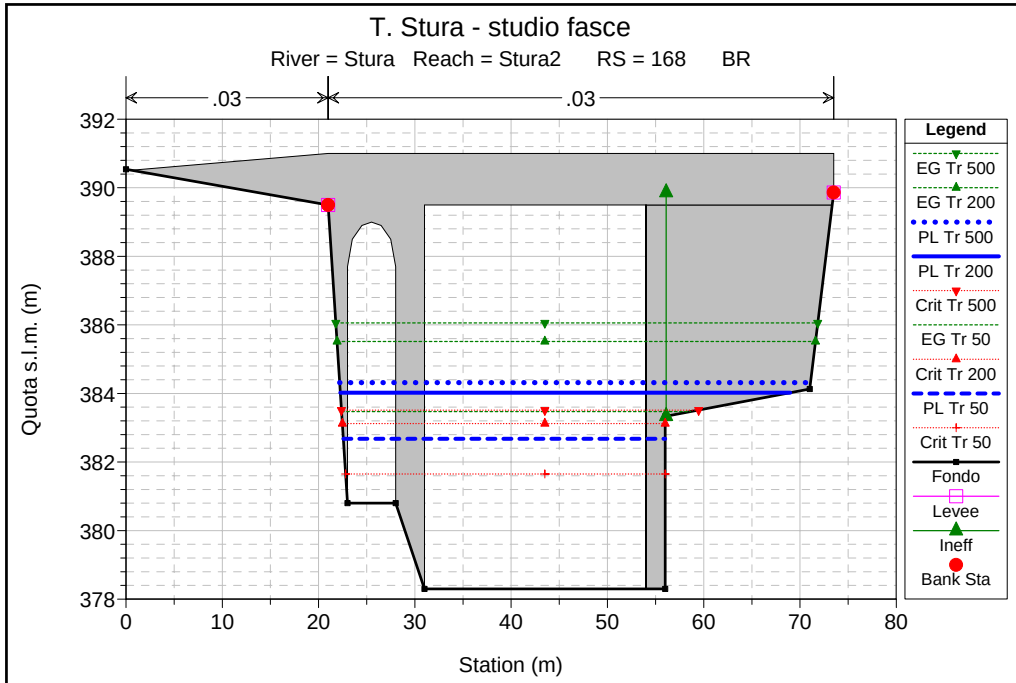
River = Stura Reach = Stura2 RS = 169

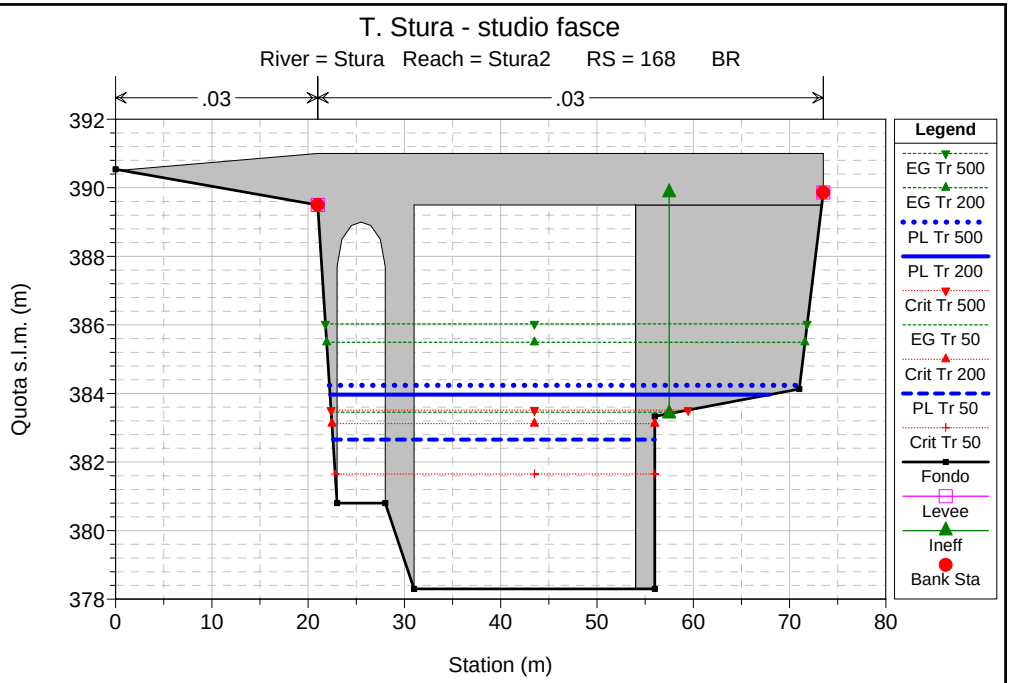


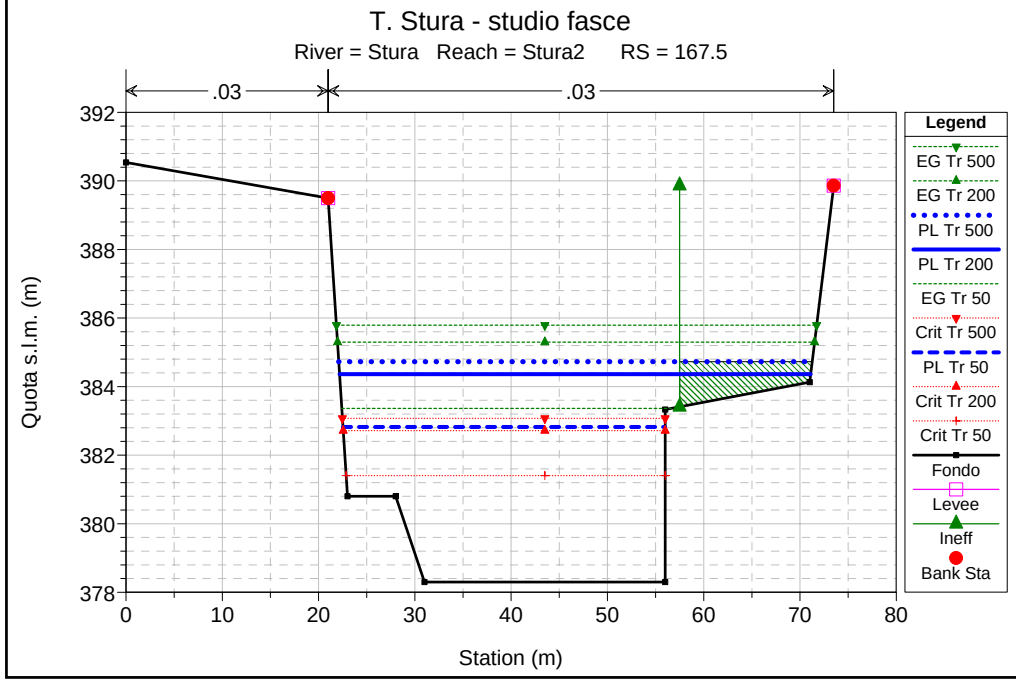
T. Stura - studio fasce

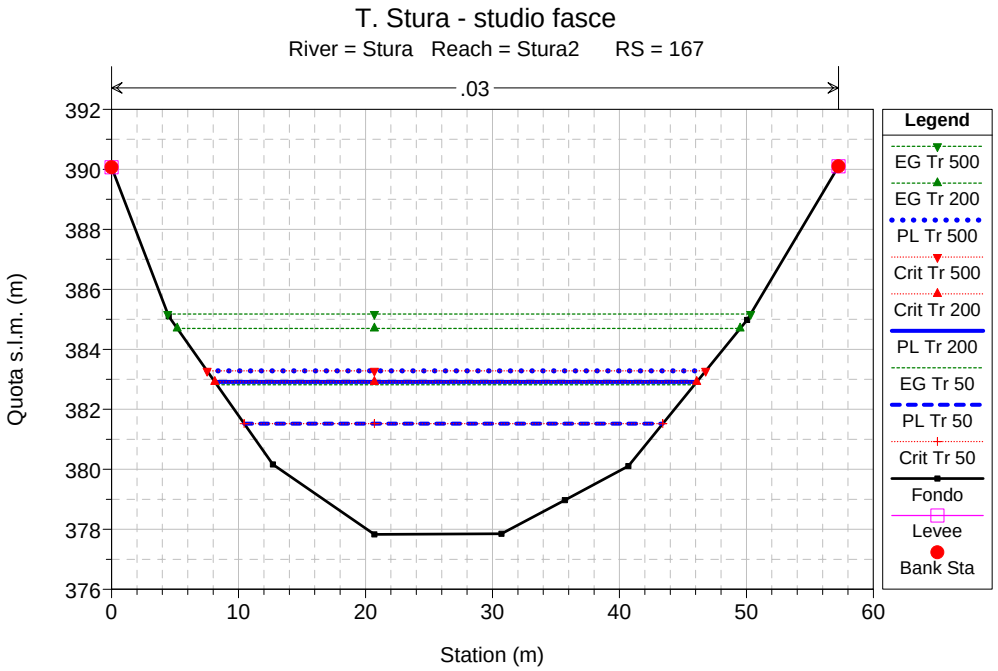
River = Stura Reach = Stura2 RS = 168.5

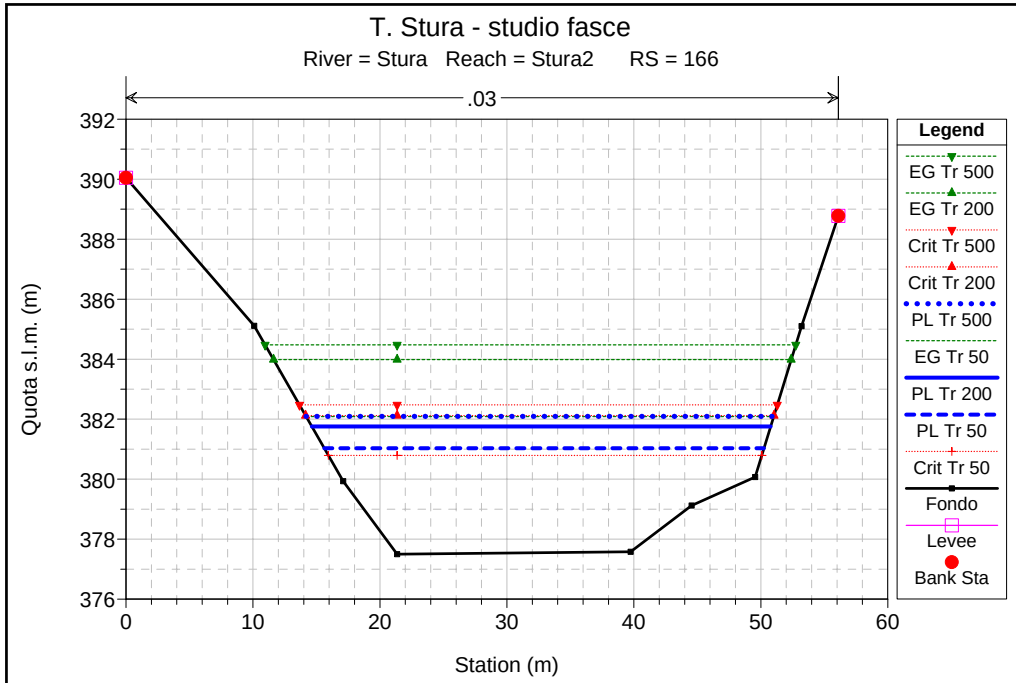


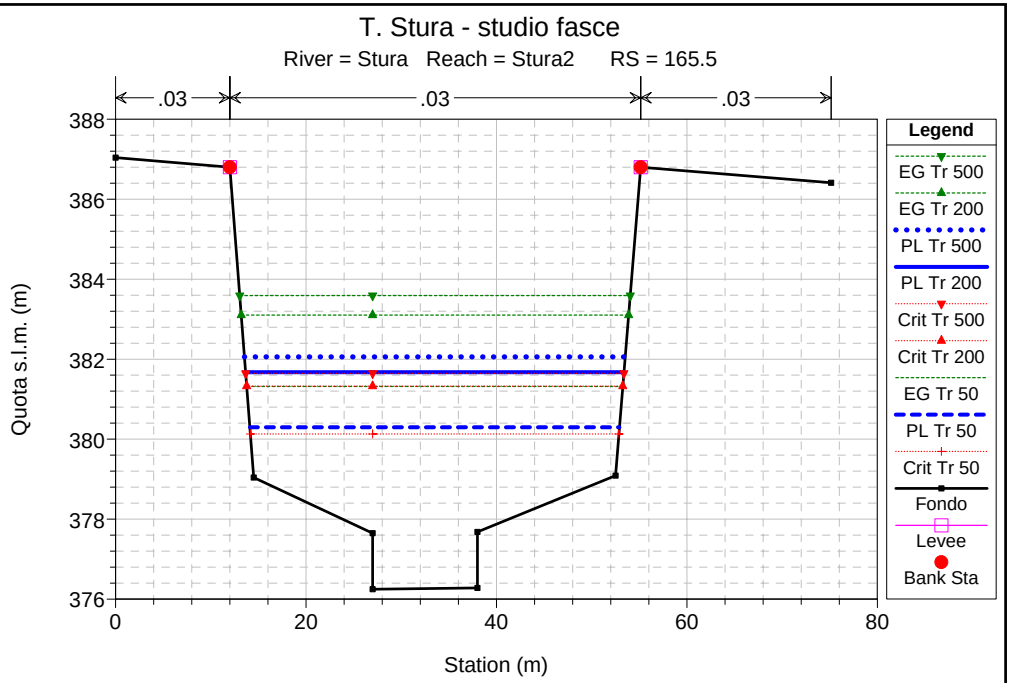

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 168 BR
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Ineff
Bank Sta

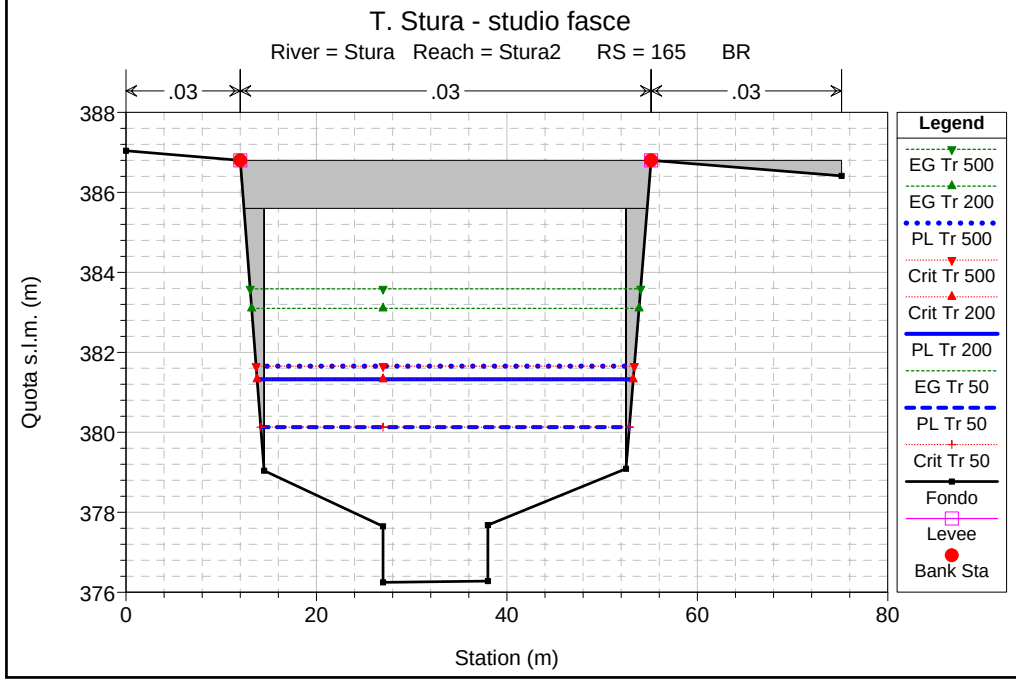

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 168 BR
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Ineff
Bank Sta

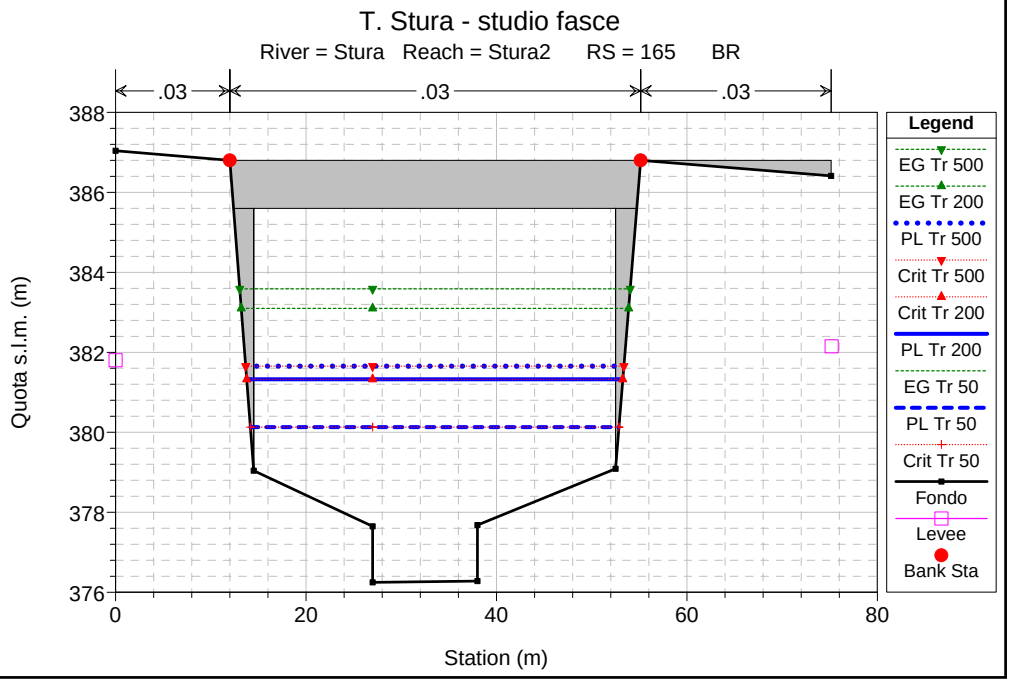

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 167.5
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Ineff
Bank Sta

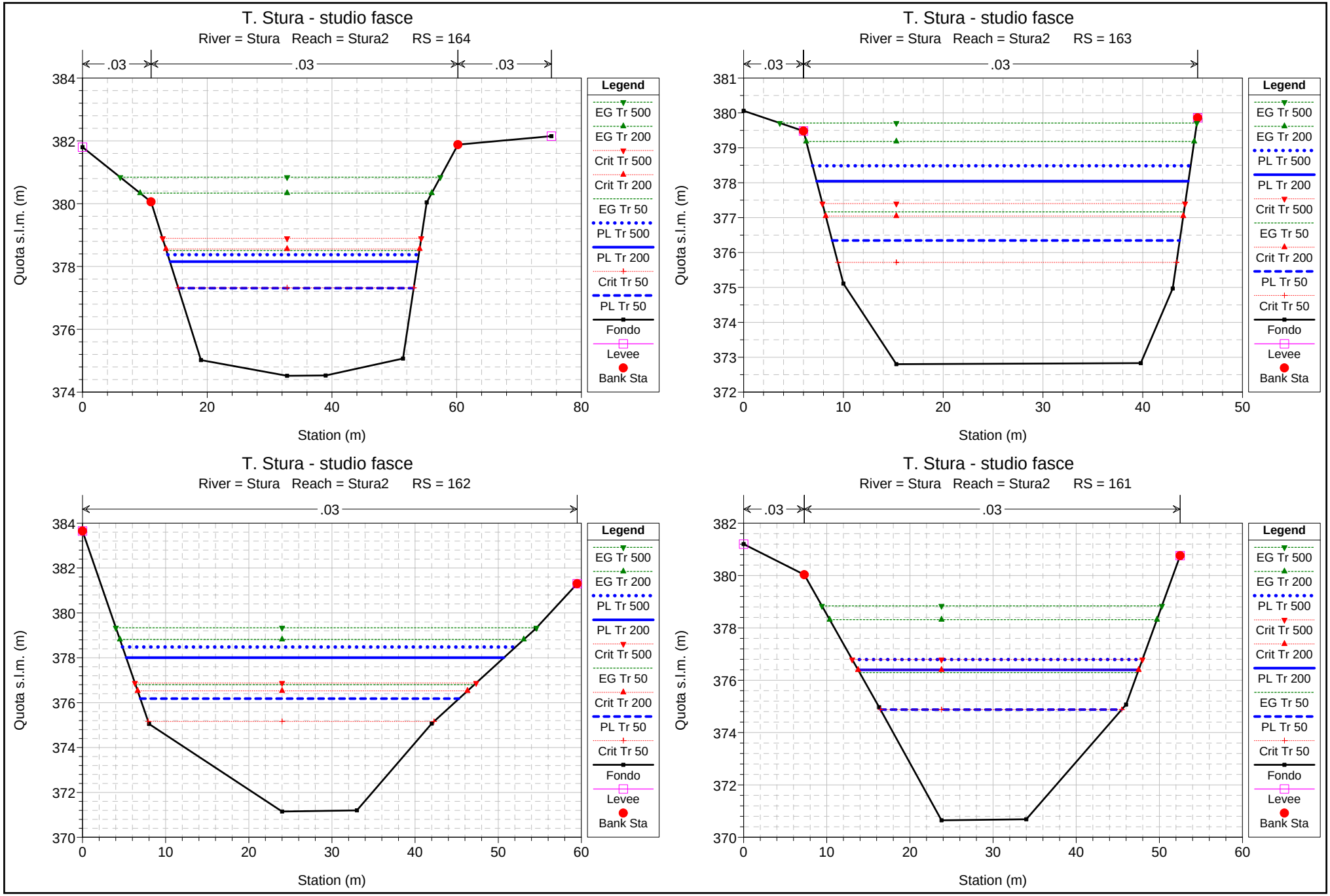

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 167
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

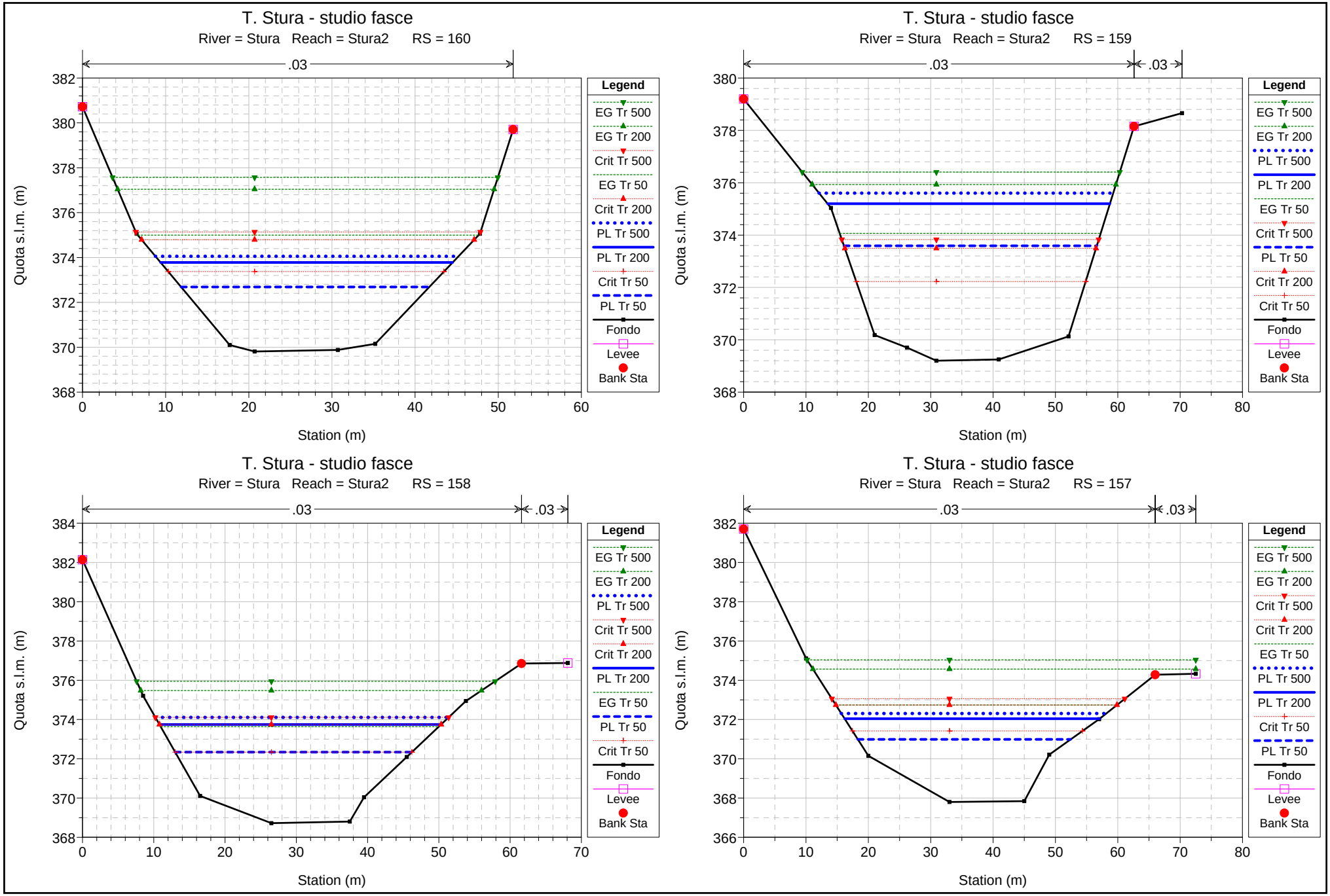

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 166
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
PL Tr 500
EG Tr 50
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

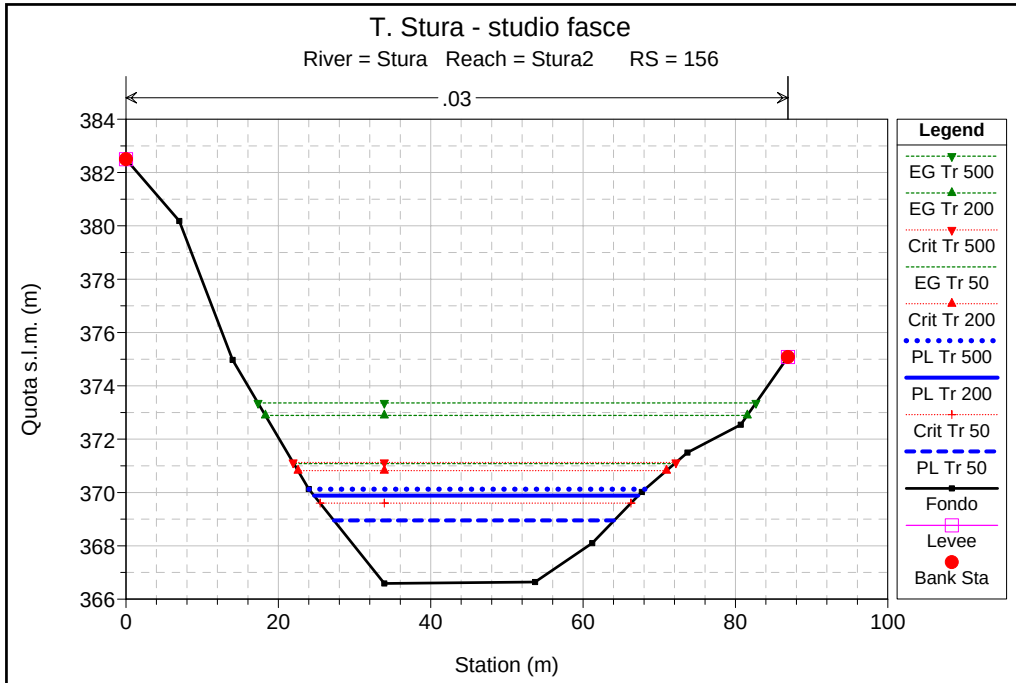

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 165.5
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

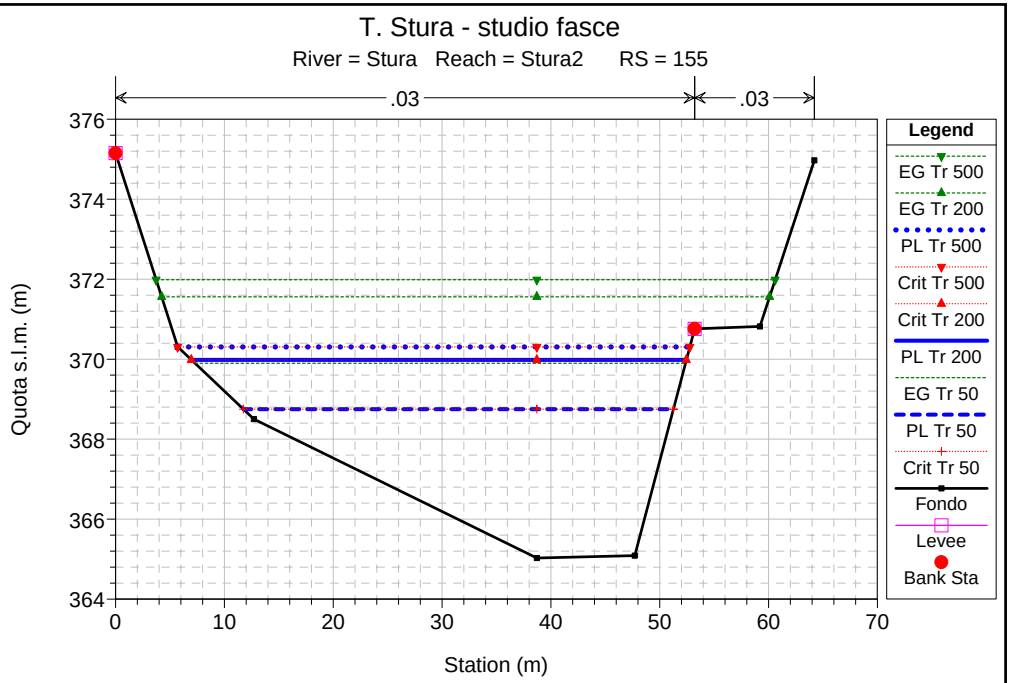

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 165 BR
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

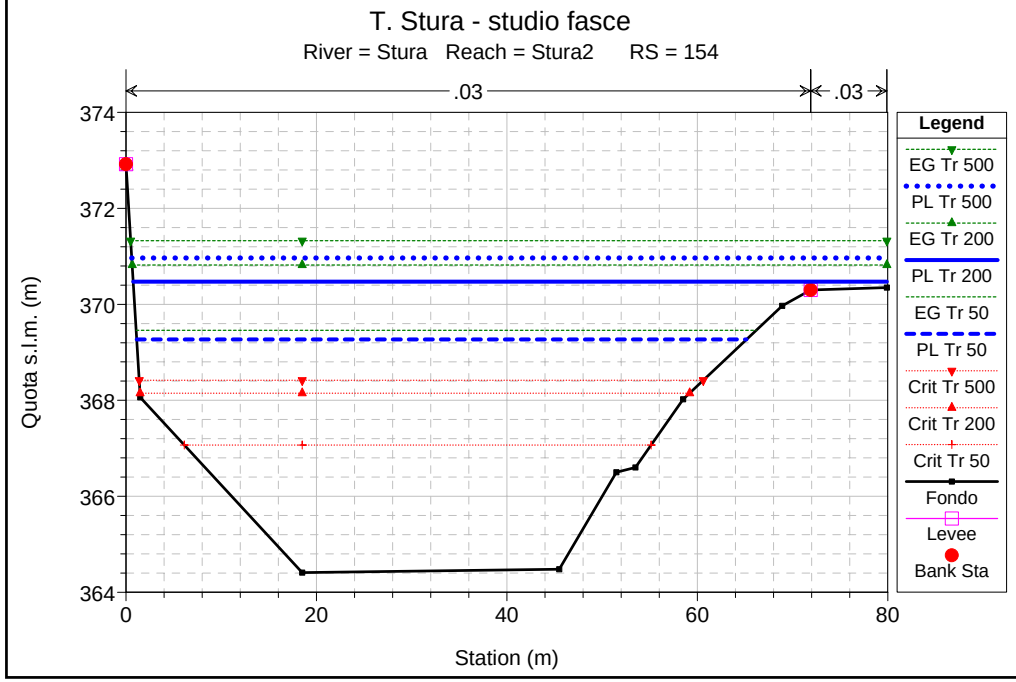

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 165 BR
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

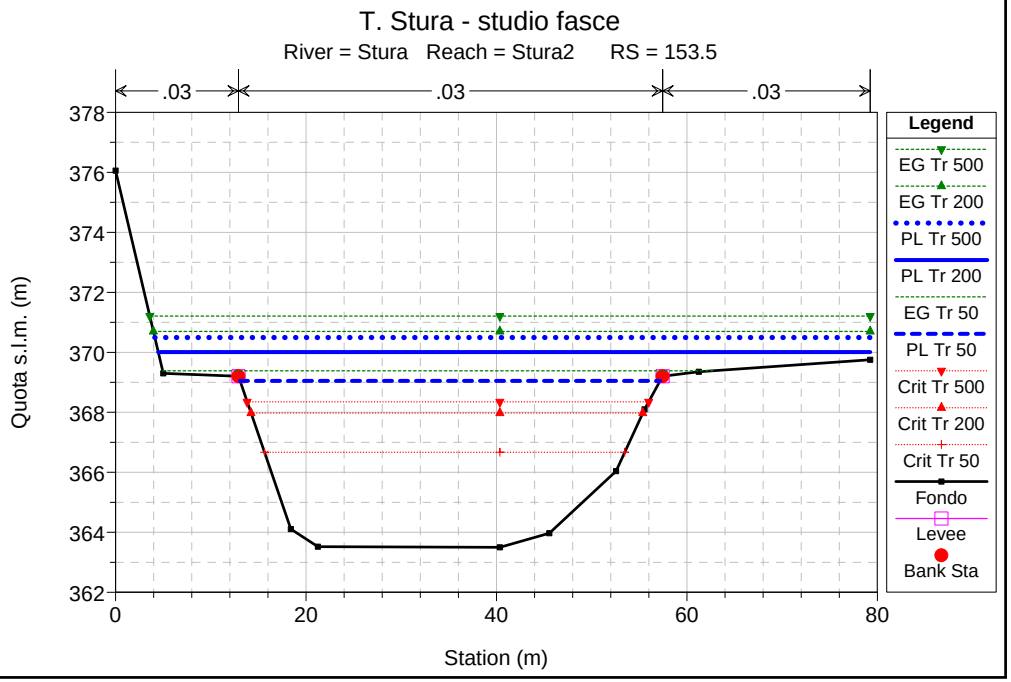

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 164
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 163
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 162
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 161
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

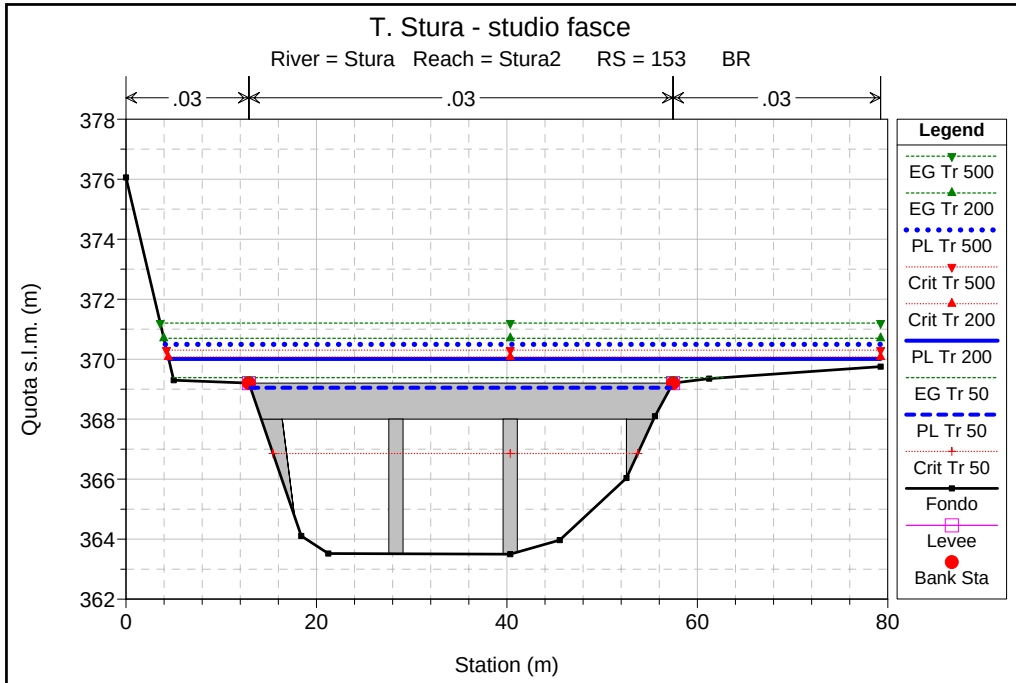

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 160
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 159
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 158
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 157
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

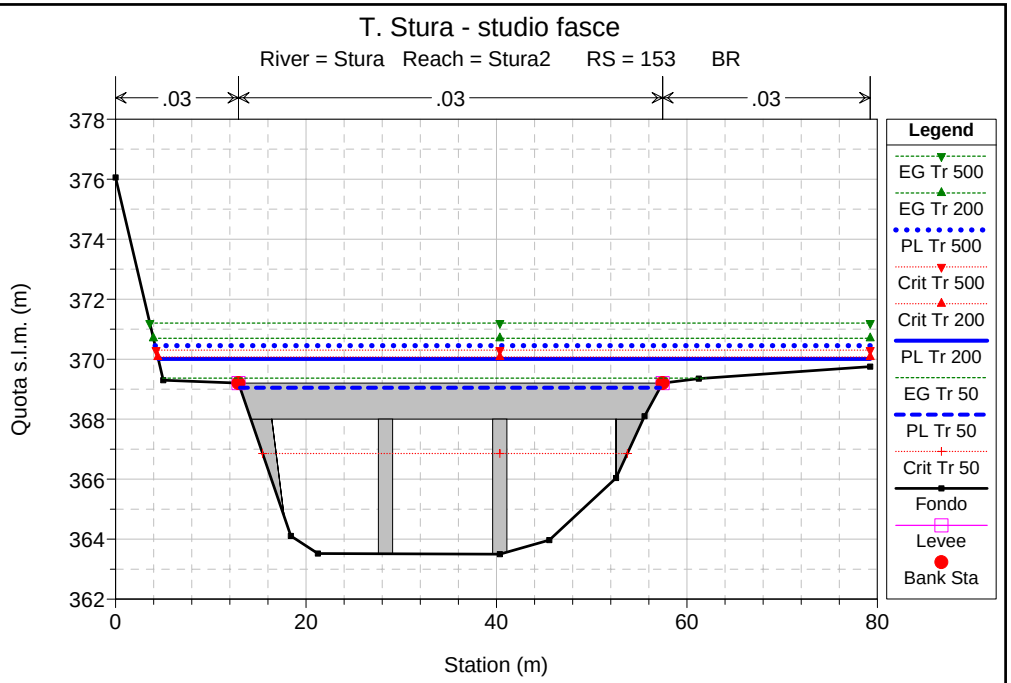

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 156
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

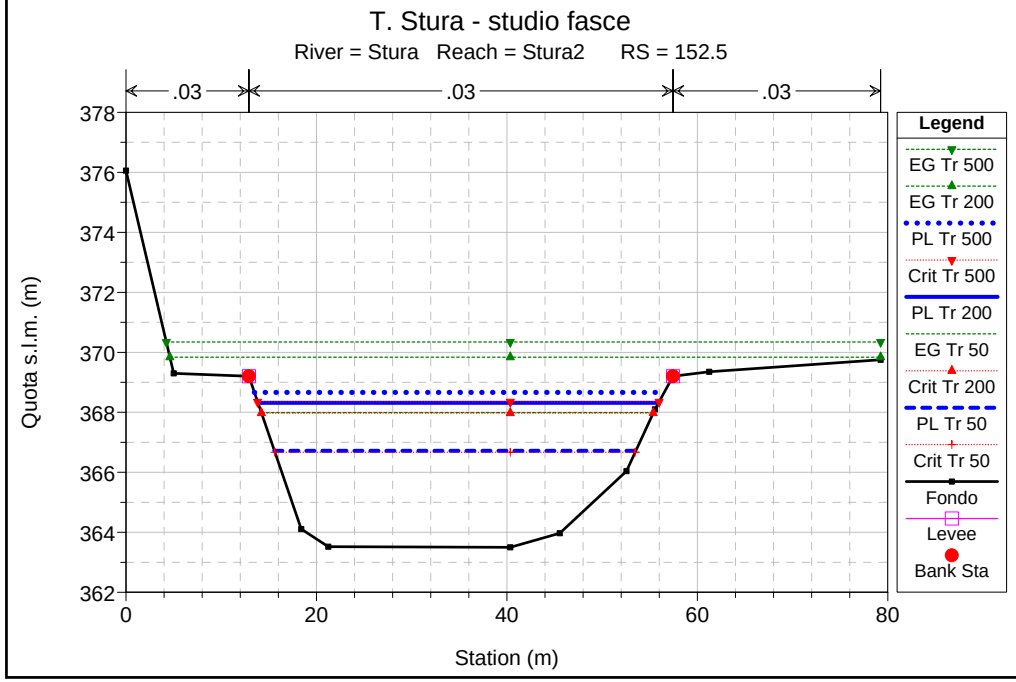

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 155
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

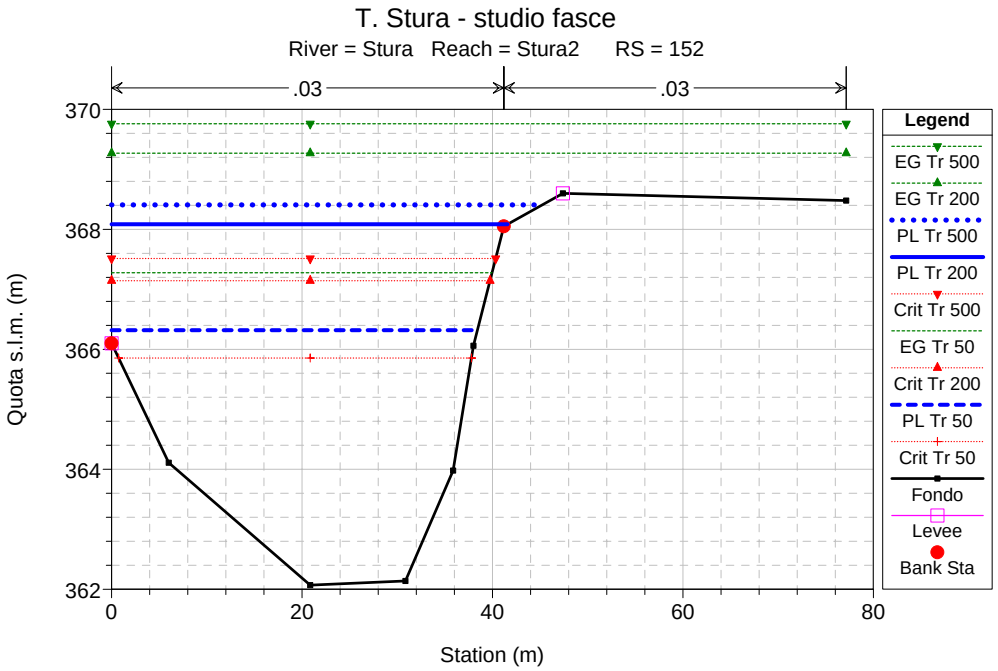

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 154
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta

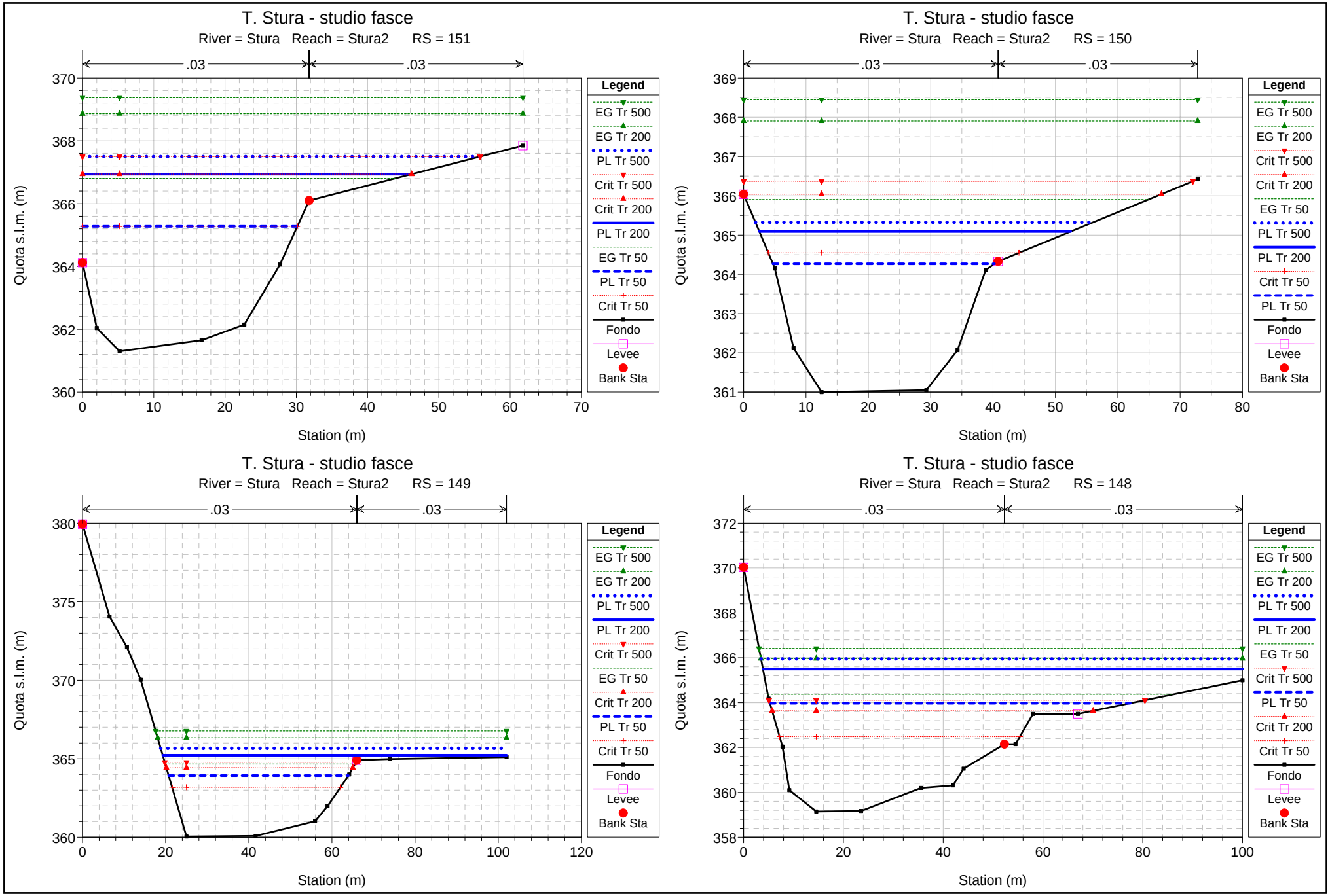

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 153.5
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta

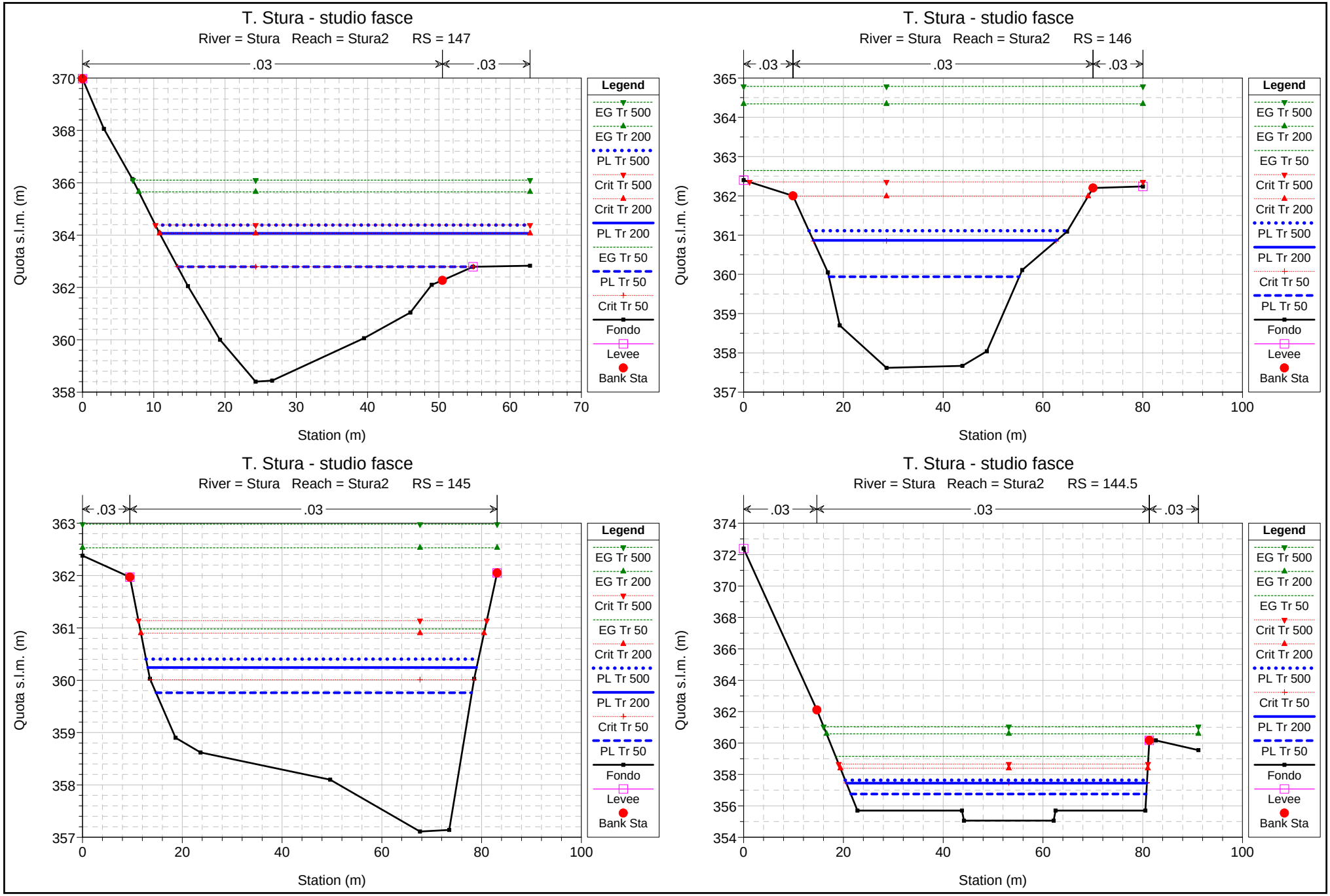

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 153 BR
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

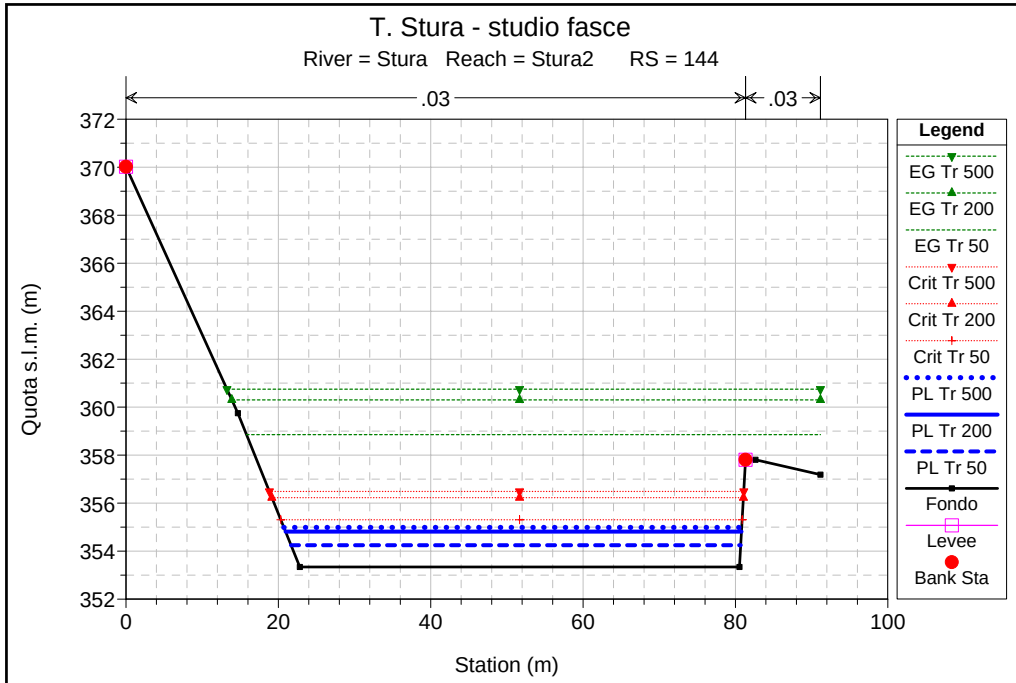

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 153 BR
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

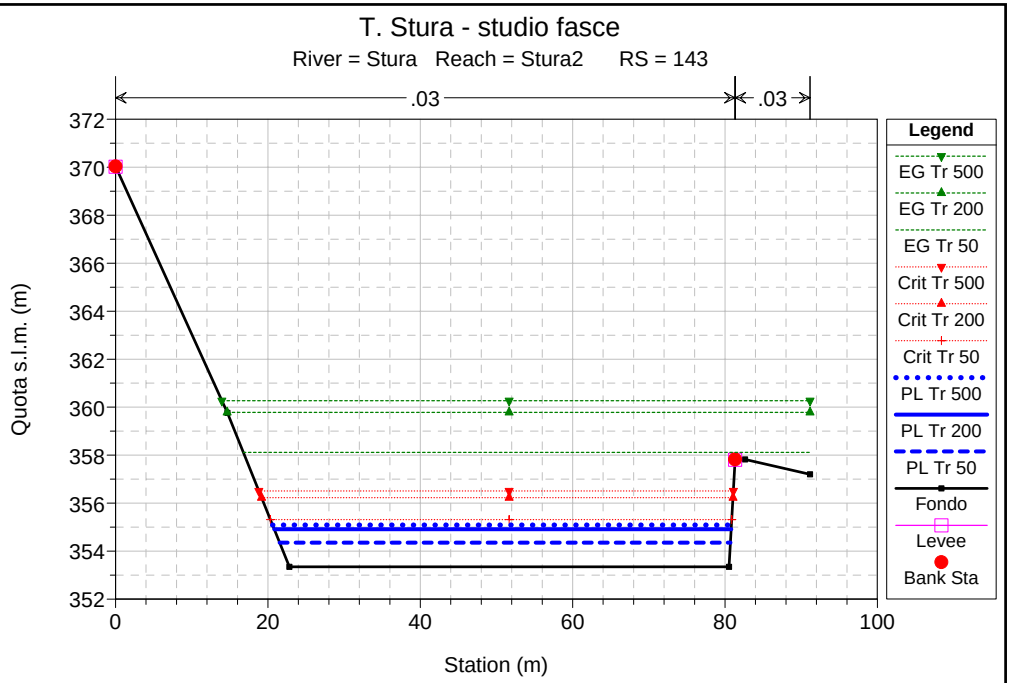

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 152.5
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
PL Tr 200
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

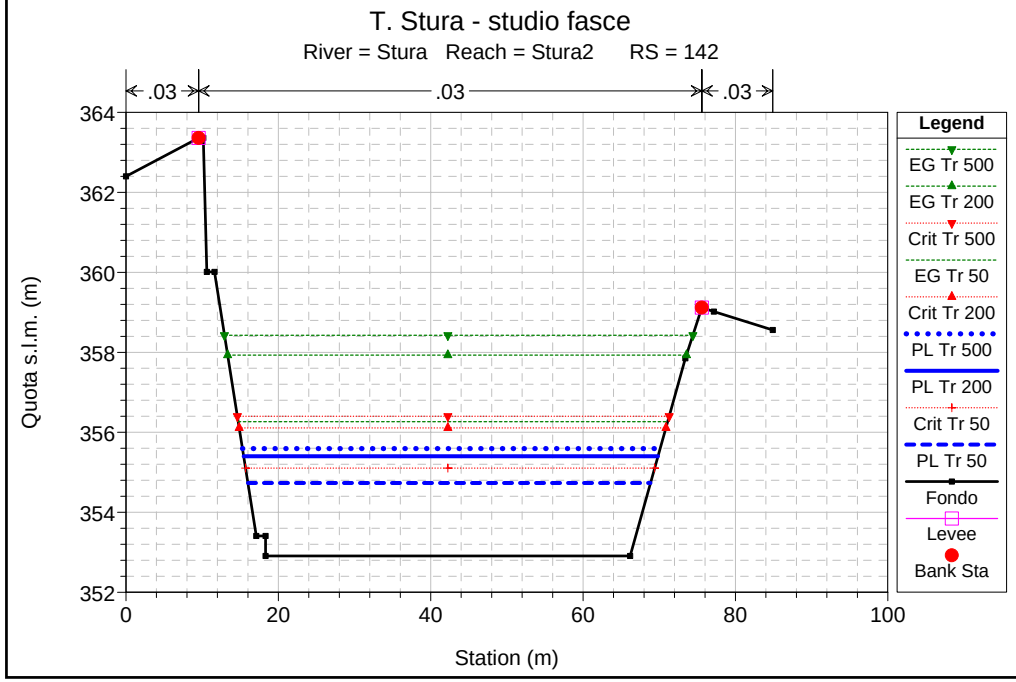

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 152
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

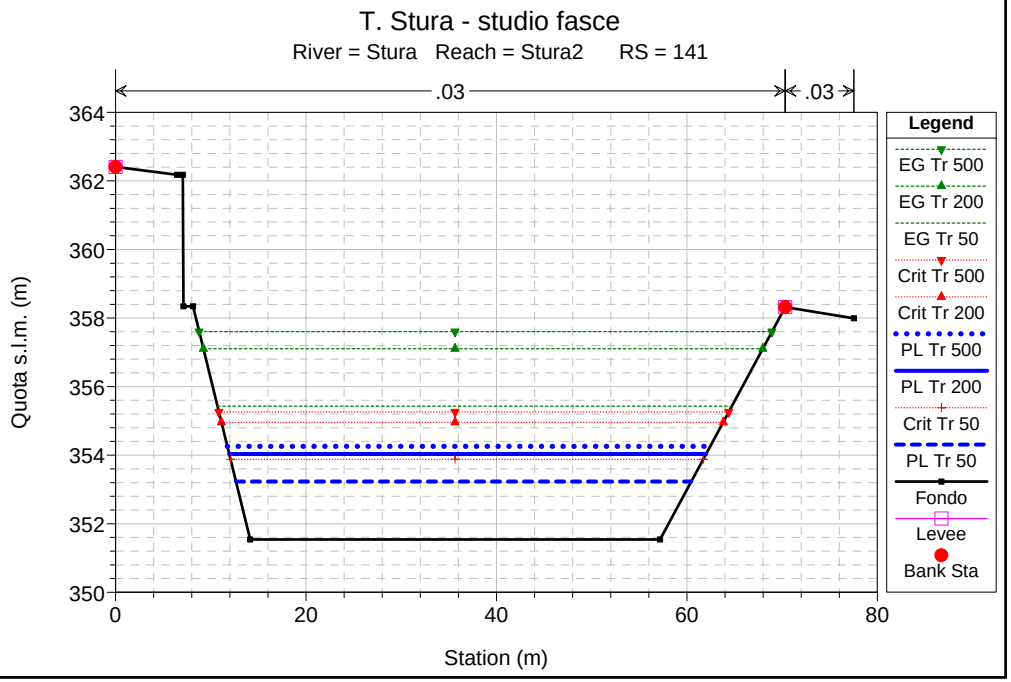

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 151
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 150
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 149
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 148
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta

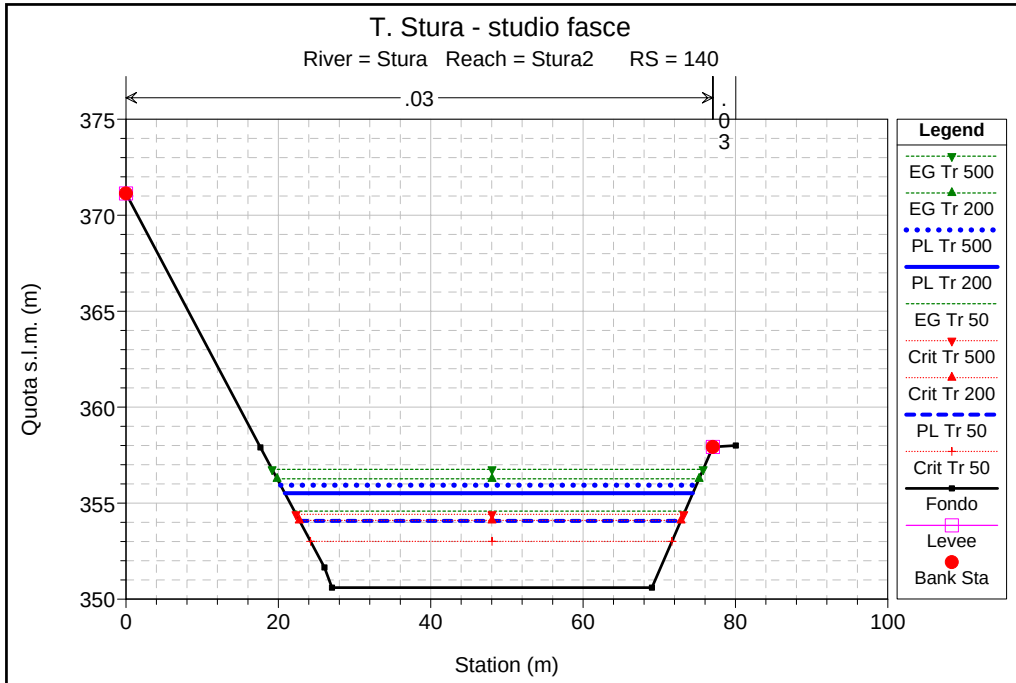

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 147
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 146
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 145
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 144.5
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

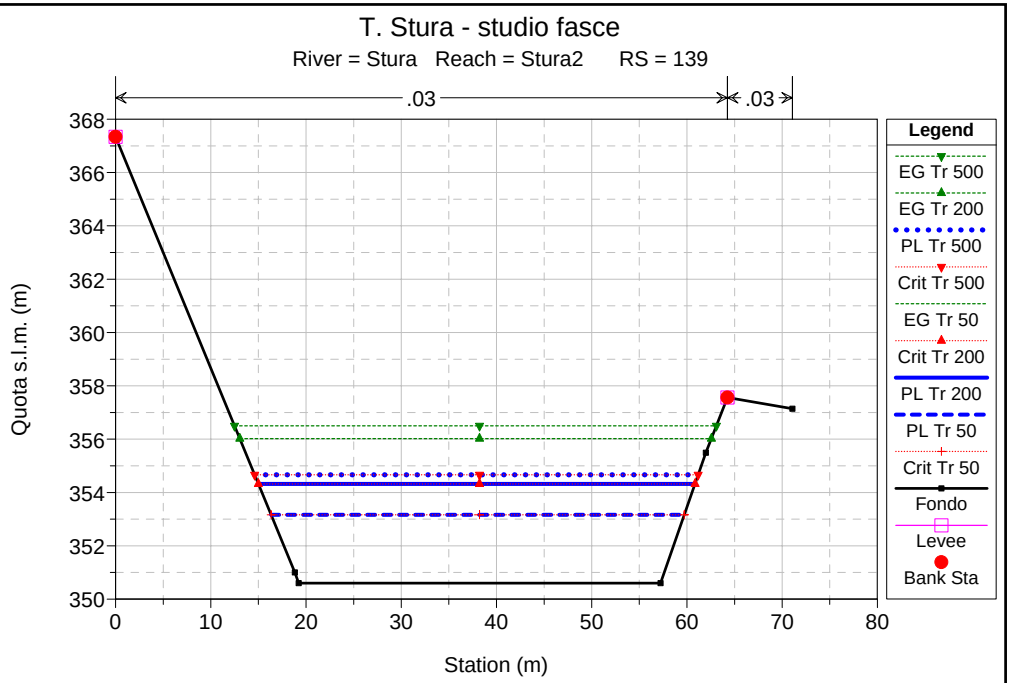

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 144
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

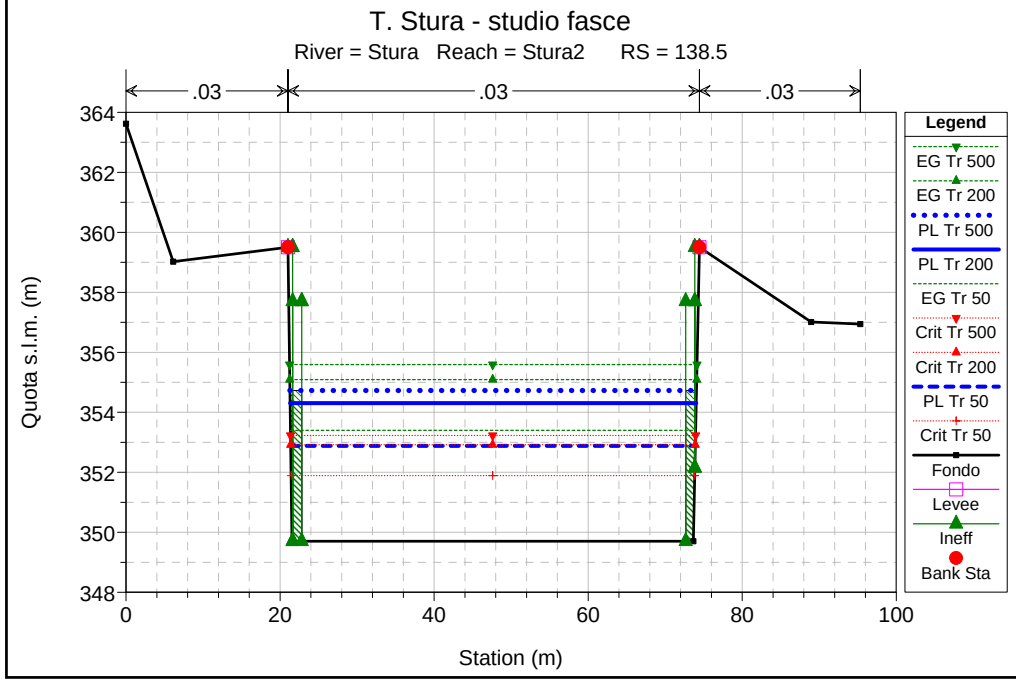

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 143
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

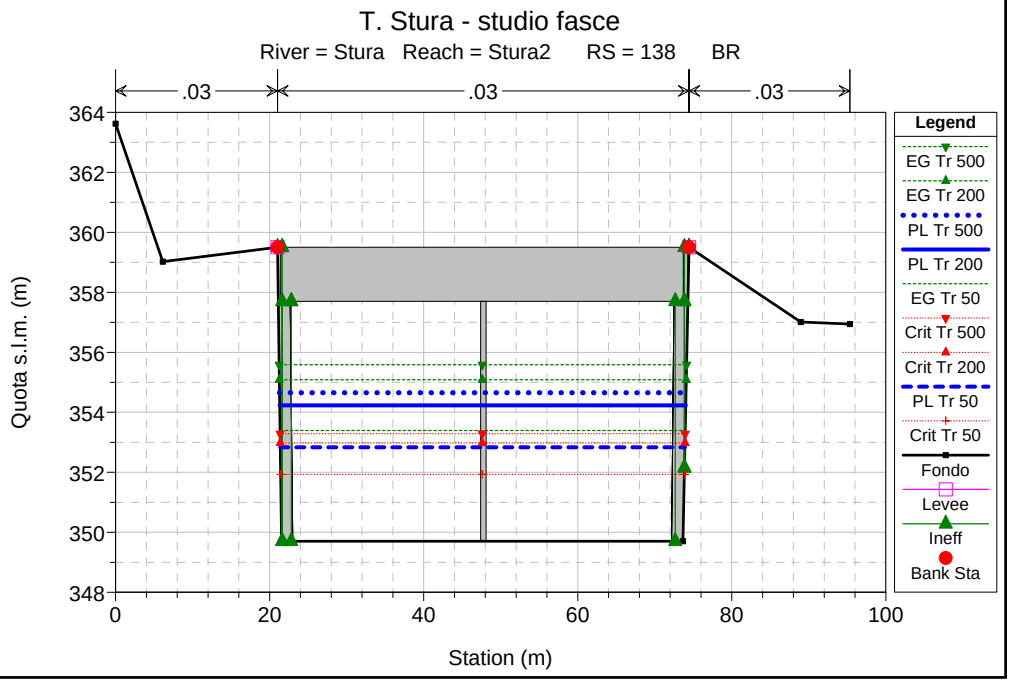

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 142
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

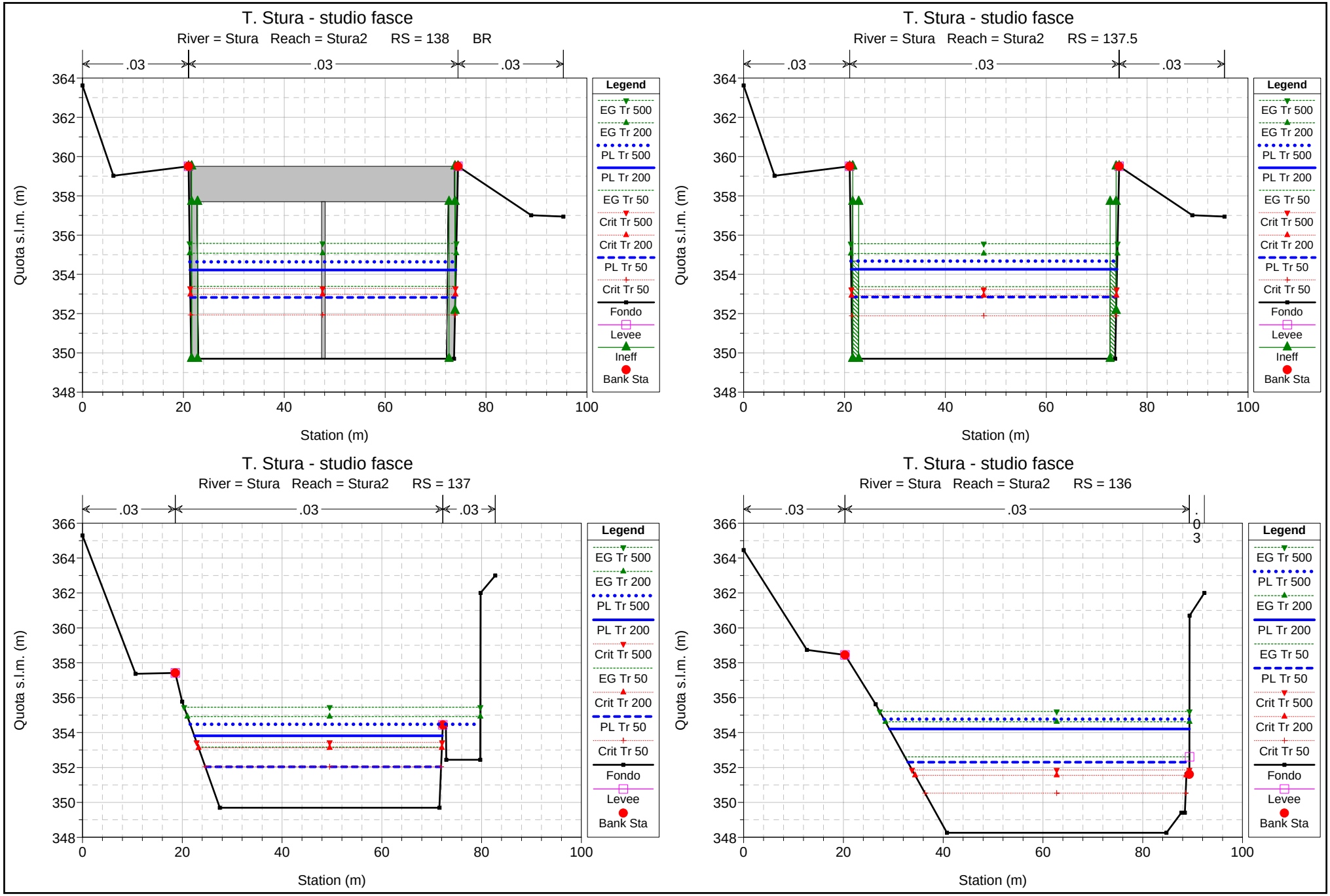

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 141
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

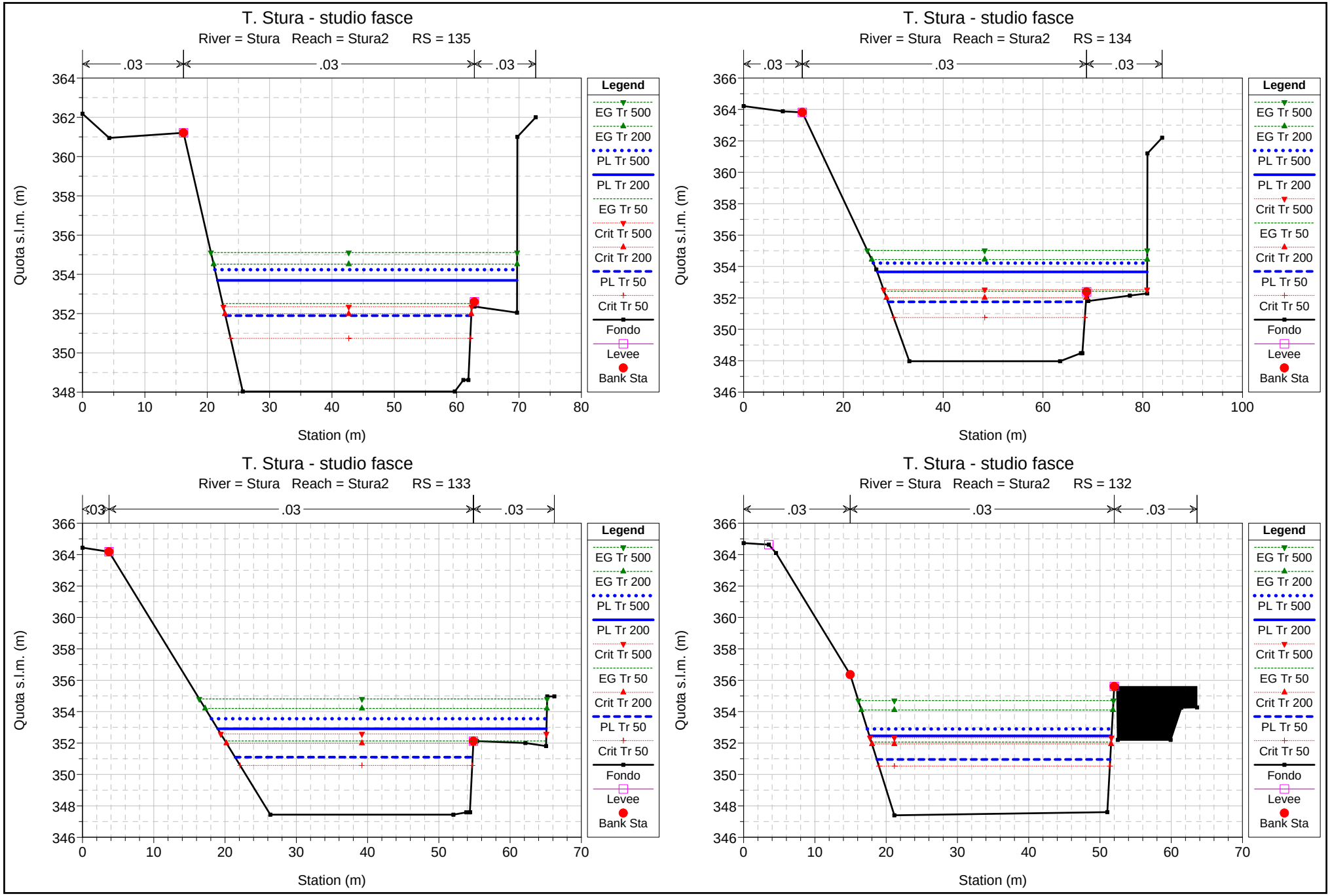

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 140
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

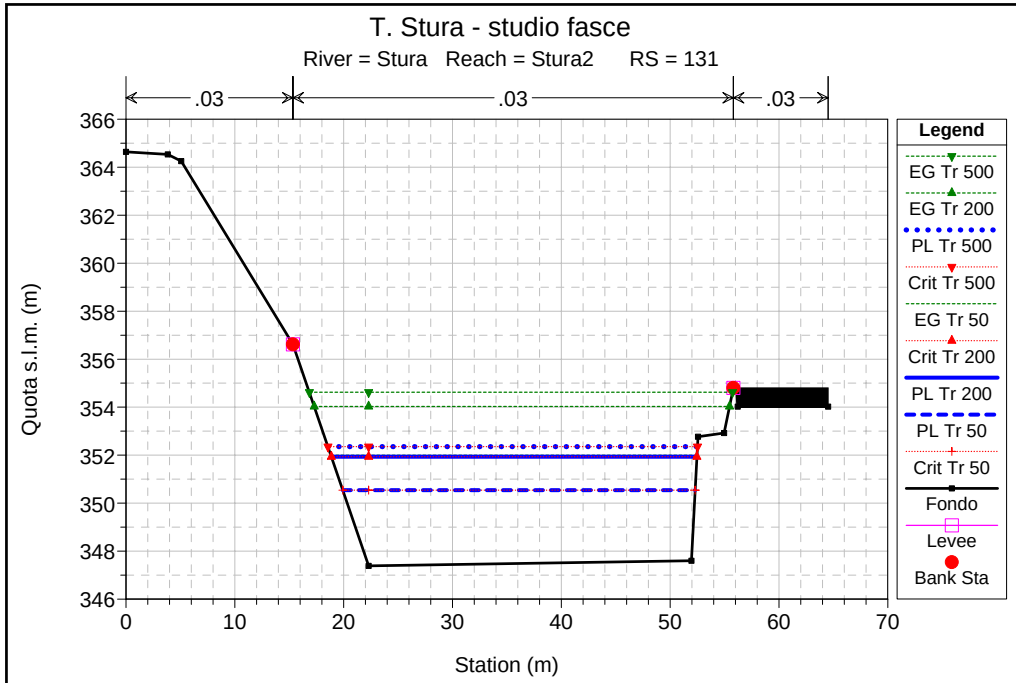

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 139
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

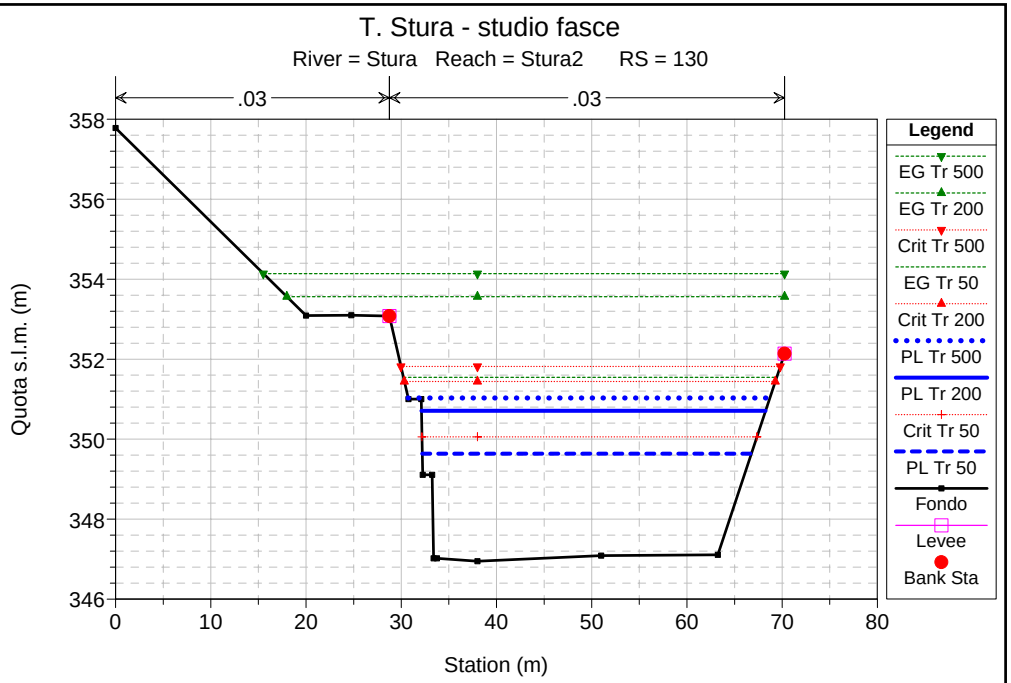

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 138.5
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Ineff
Bank Sta

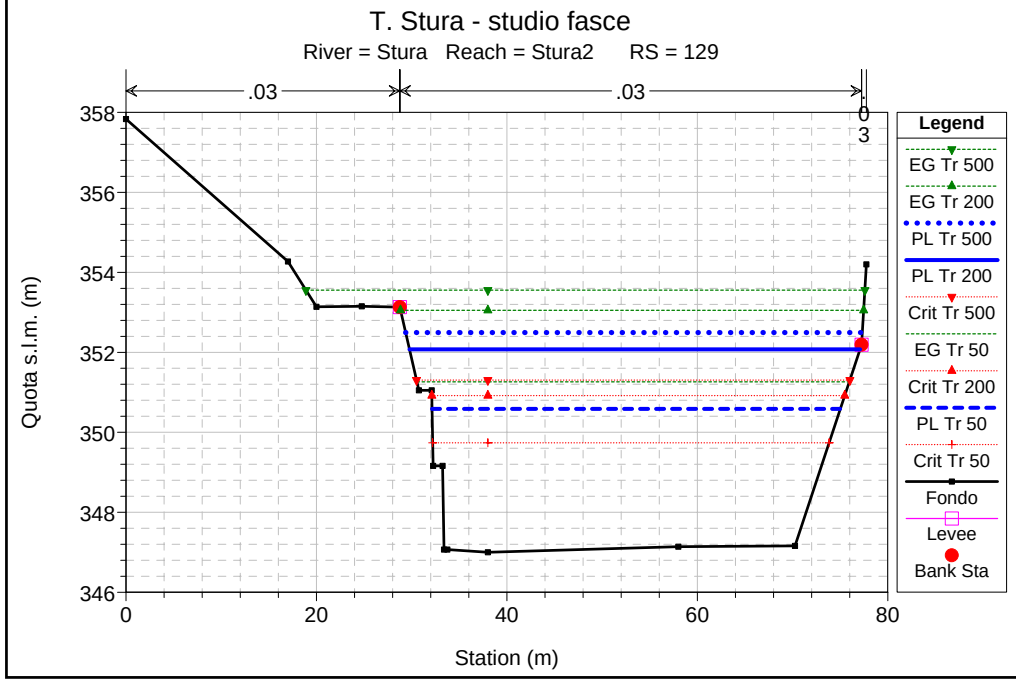

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 138 BR
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Ineff
Bank Sta

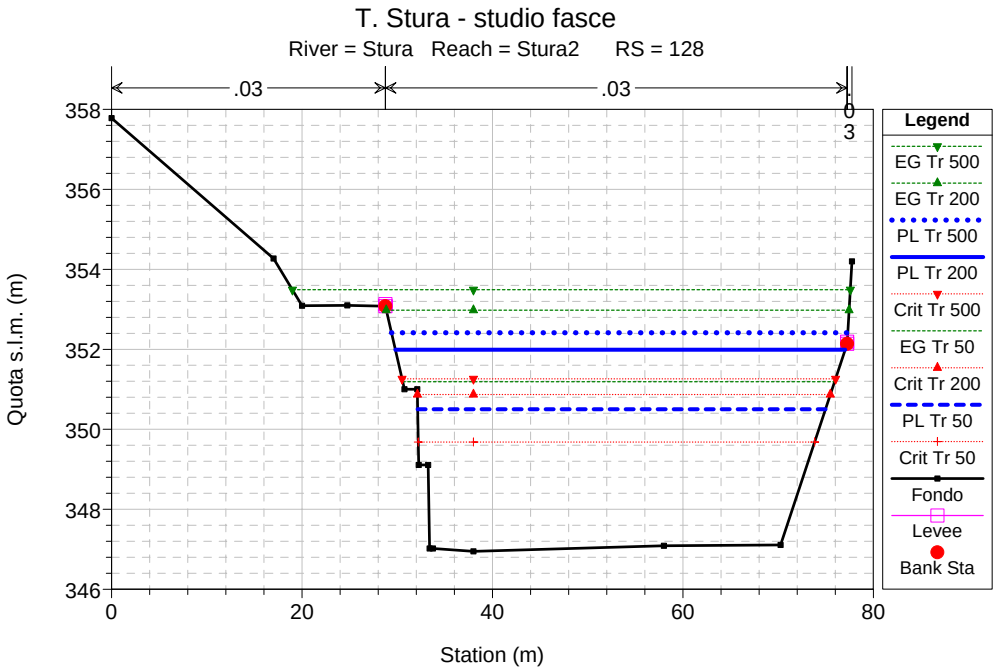

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 138 BR
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Ineff
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 137.5
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 137
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 136

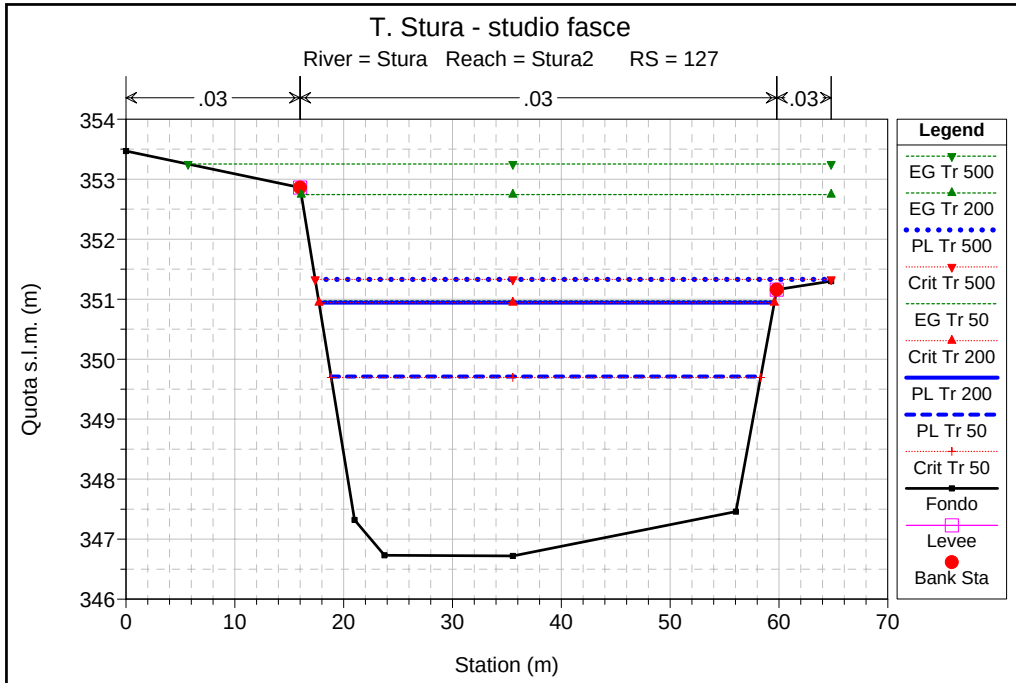

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 135
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 134
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 133
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 132
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

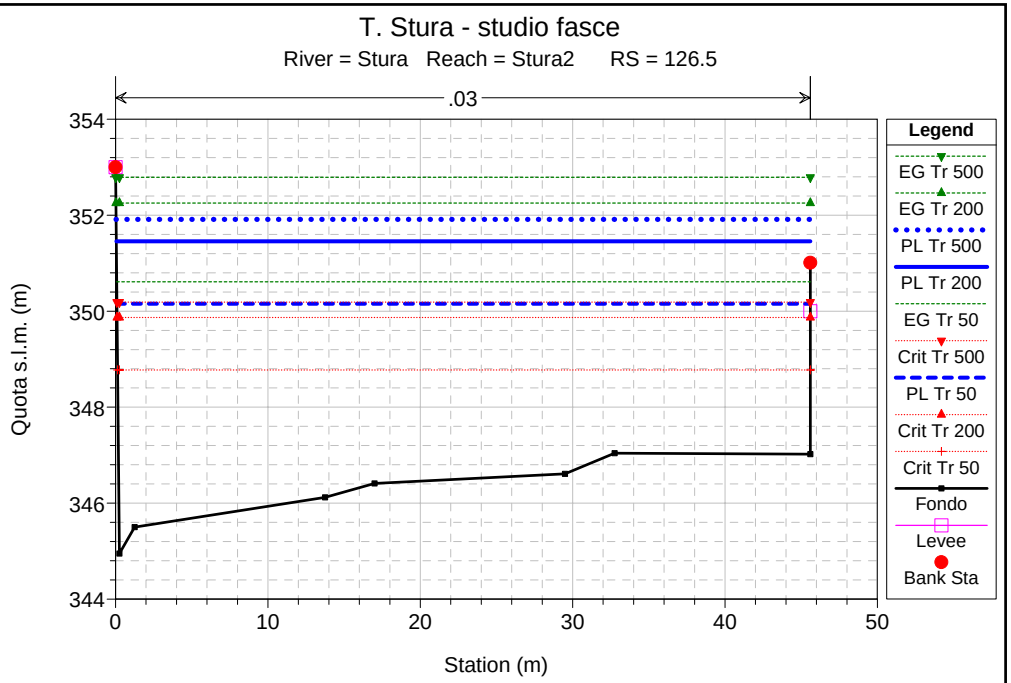

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 131
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

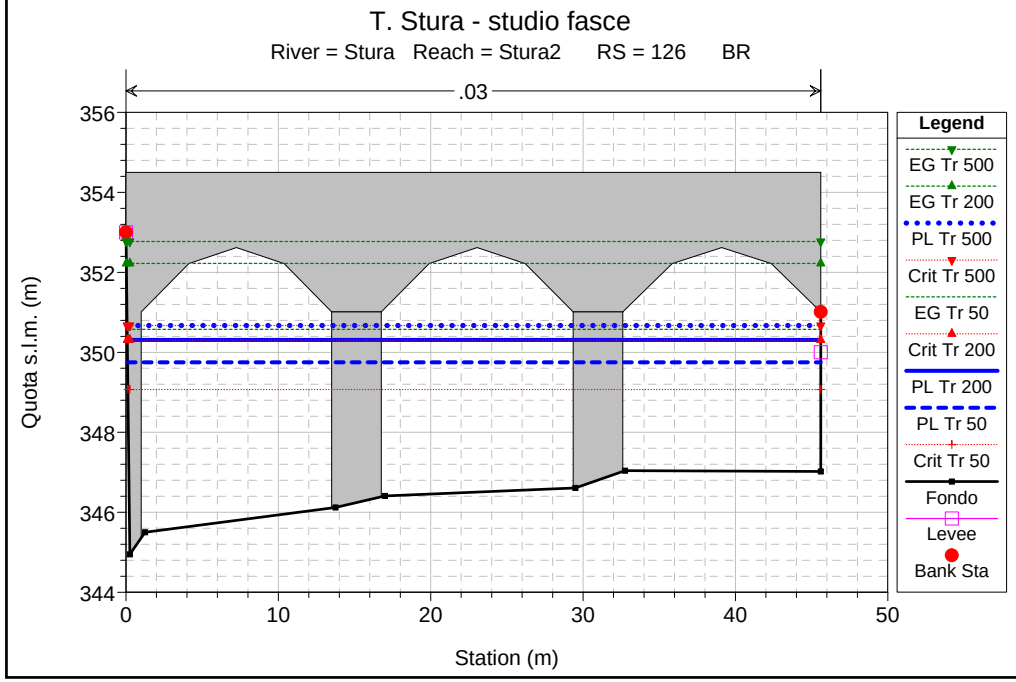

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 130
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

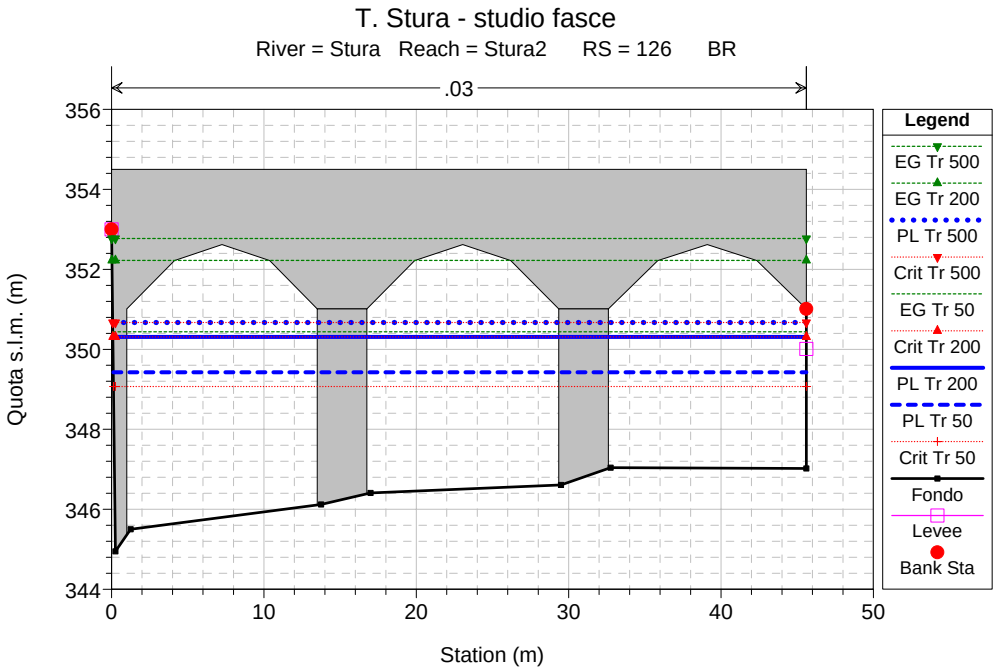

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 129
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

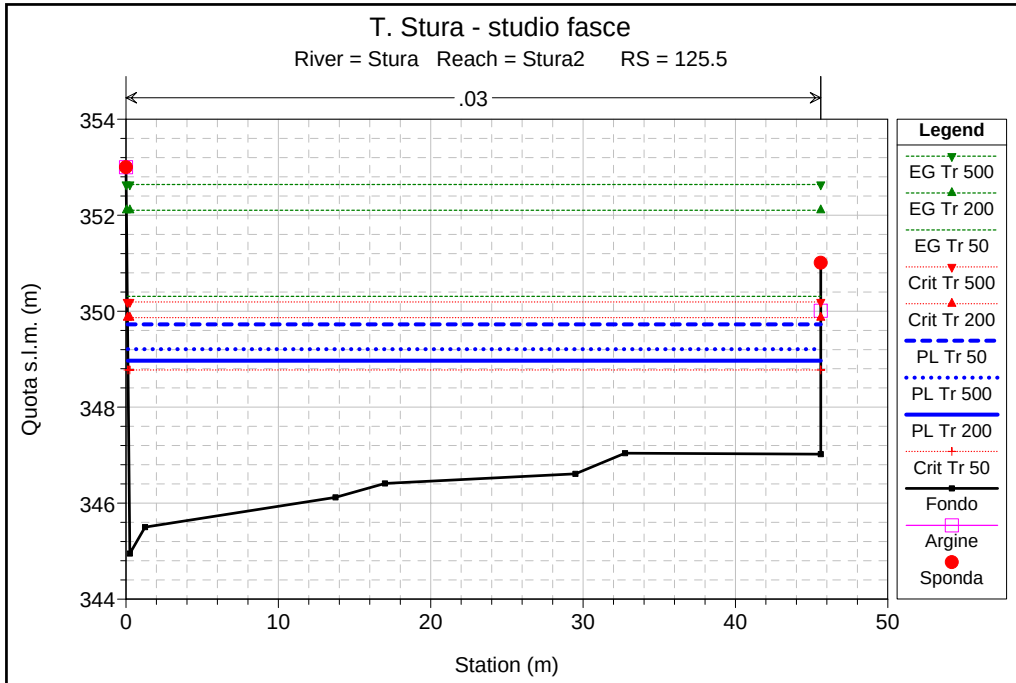

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 128
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

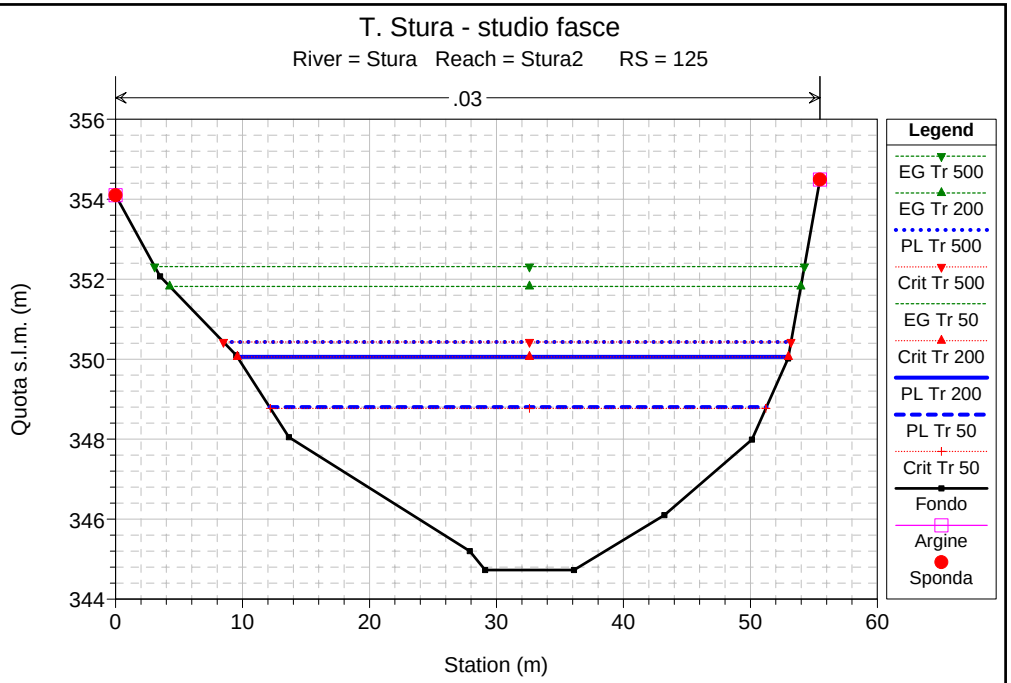

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 127
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

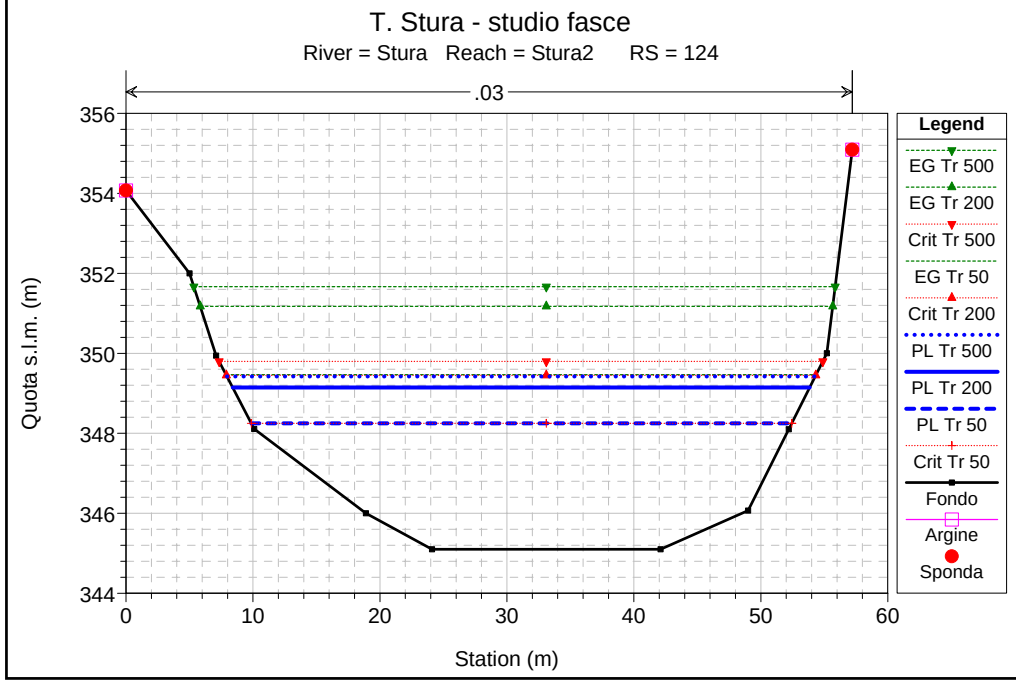

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 126.5
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta

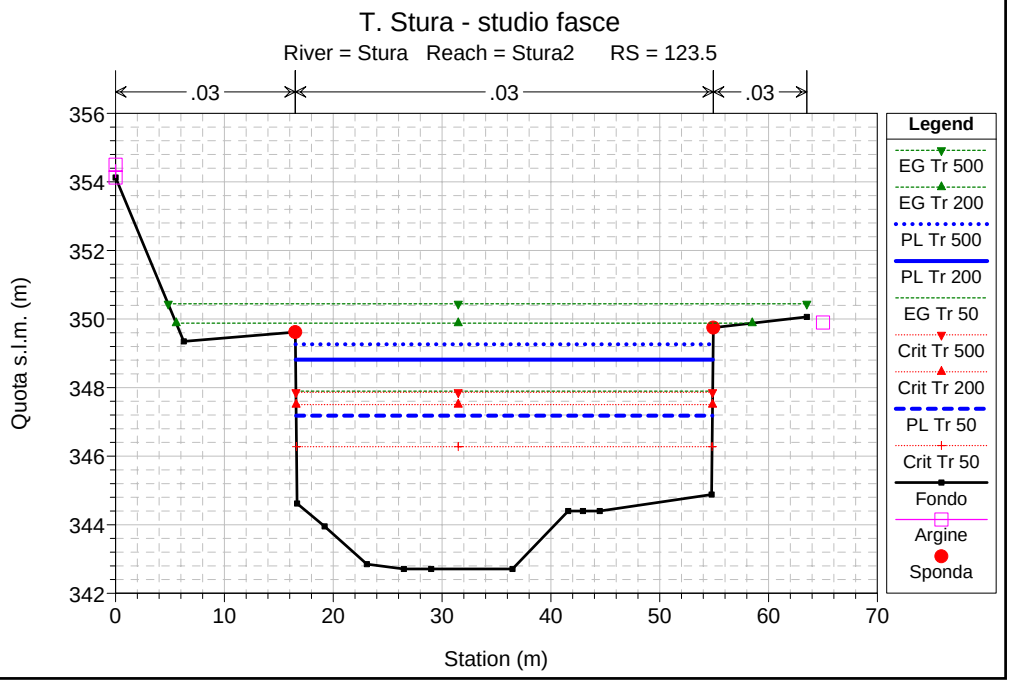

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 126 BR
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

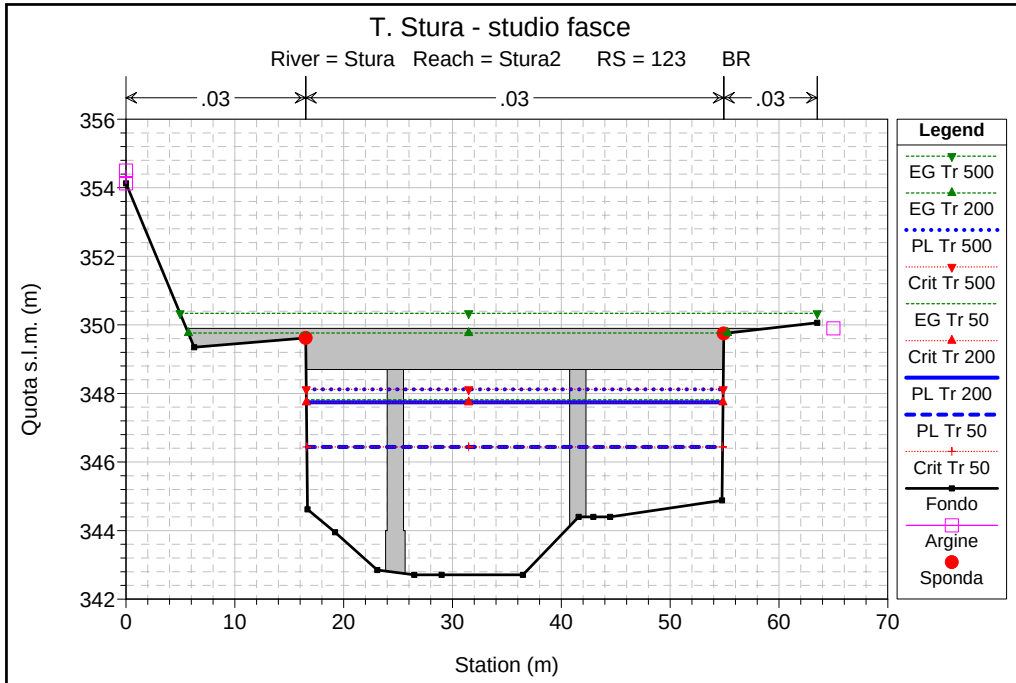

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 126 BR
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

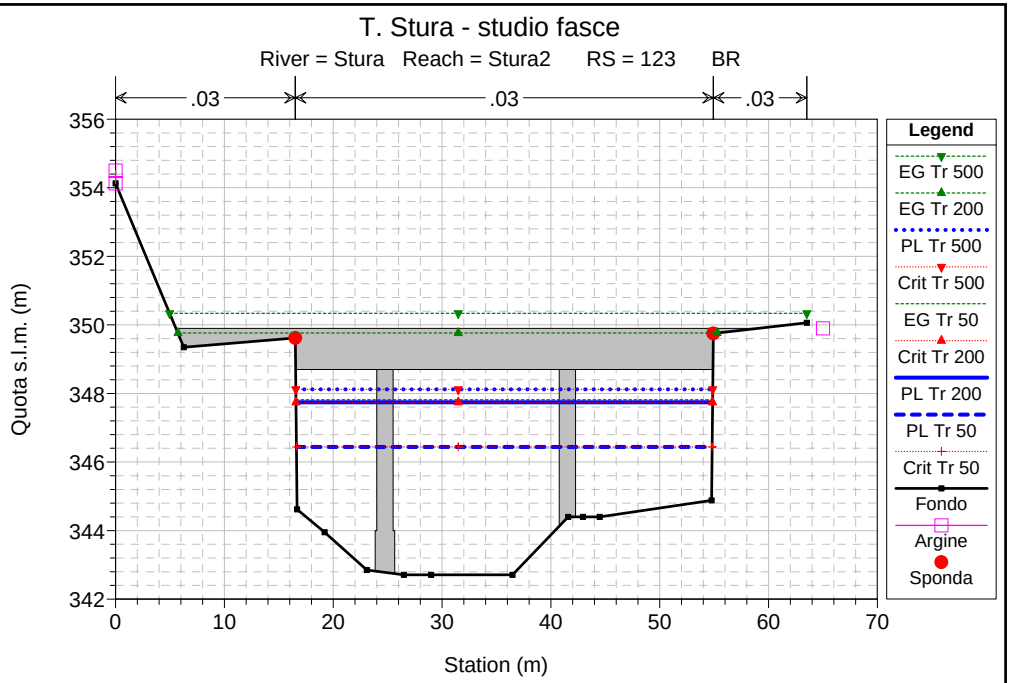

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 125.5
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
Fondo
Argine
Sponda

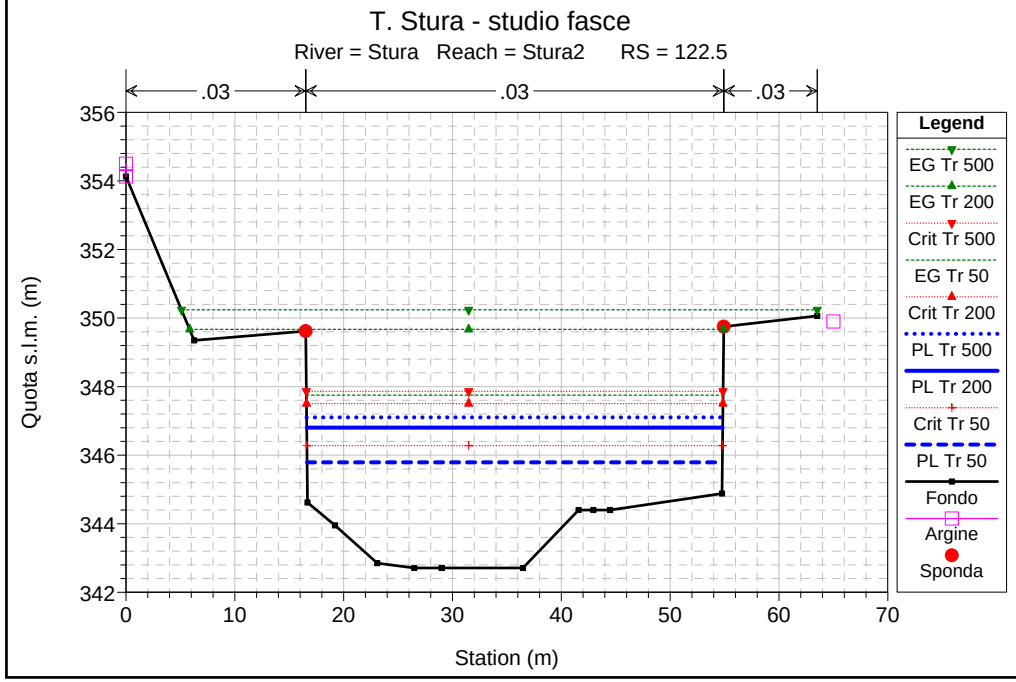

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 125
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

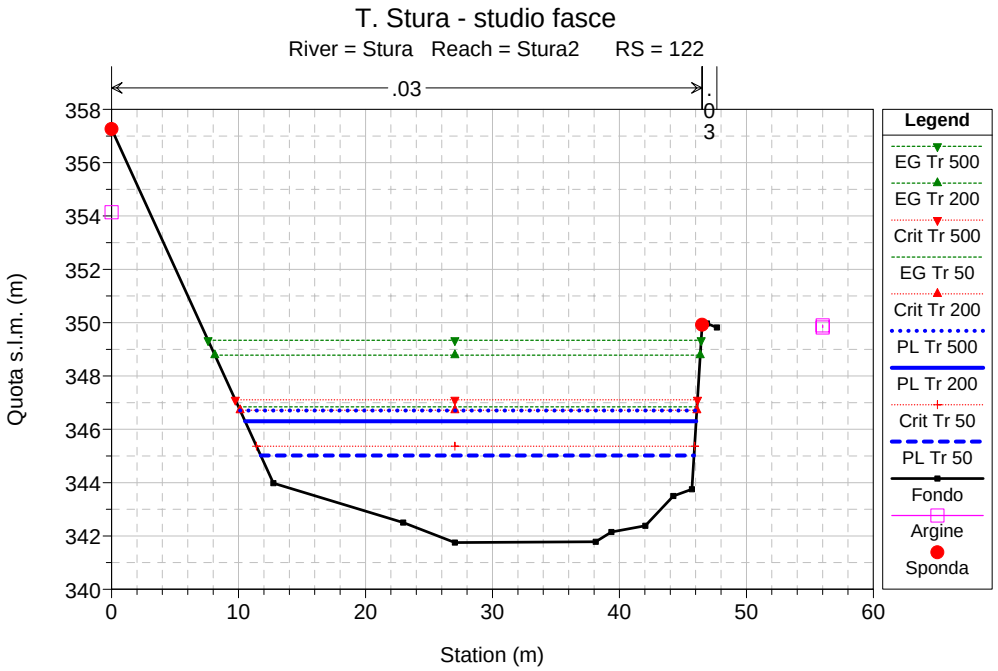

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 124
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

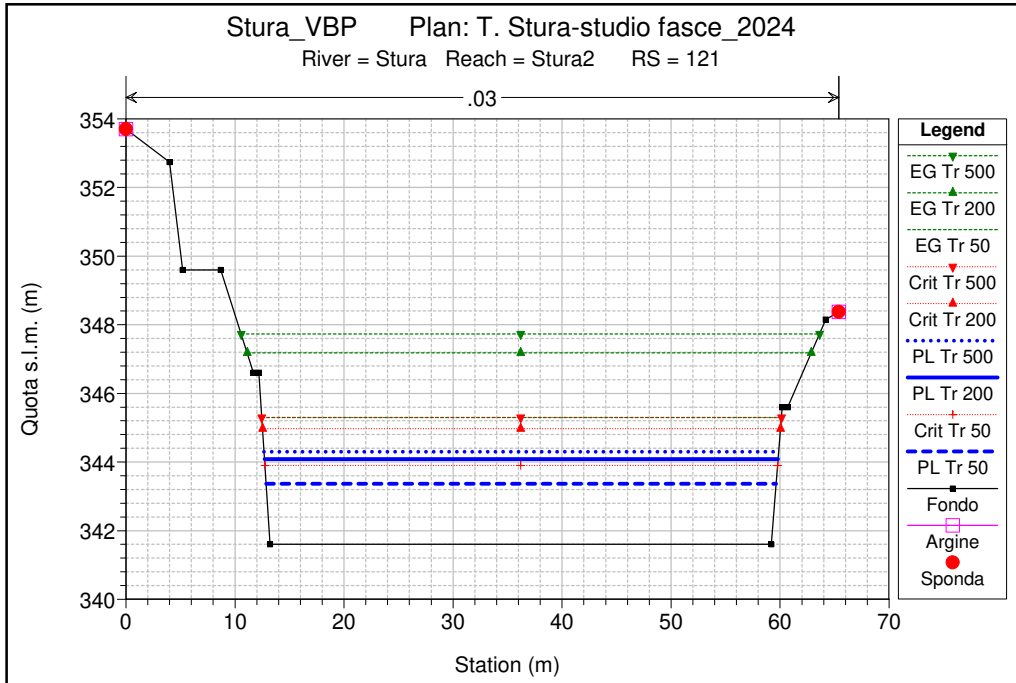

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 123.5
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

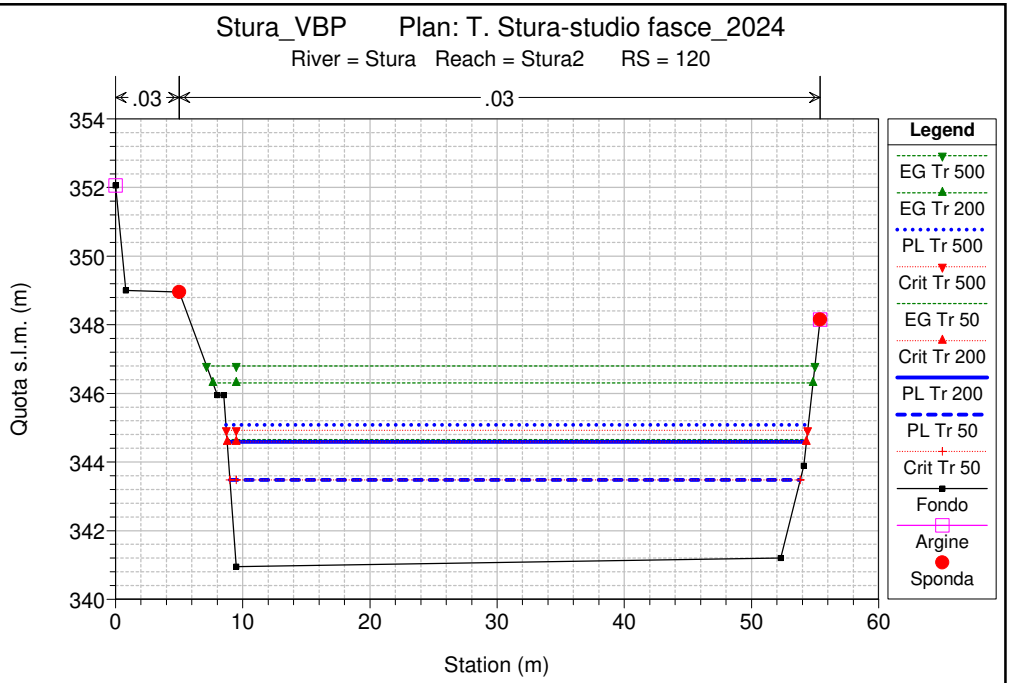

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 123 BR
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

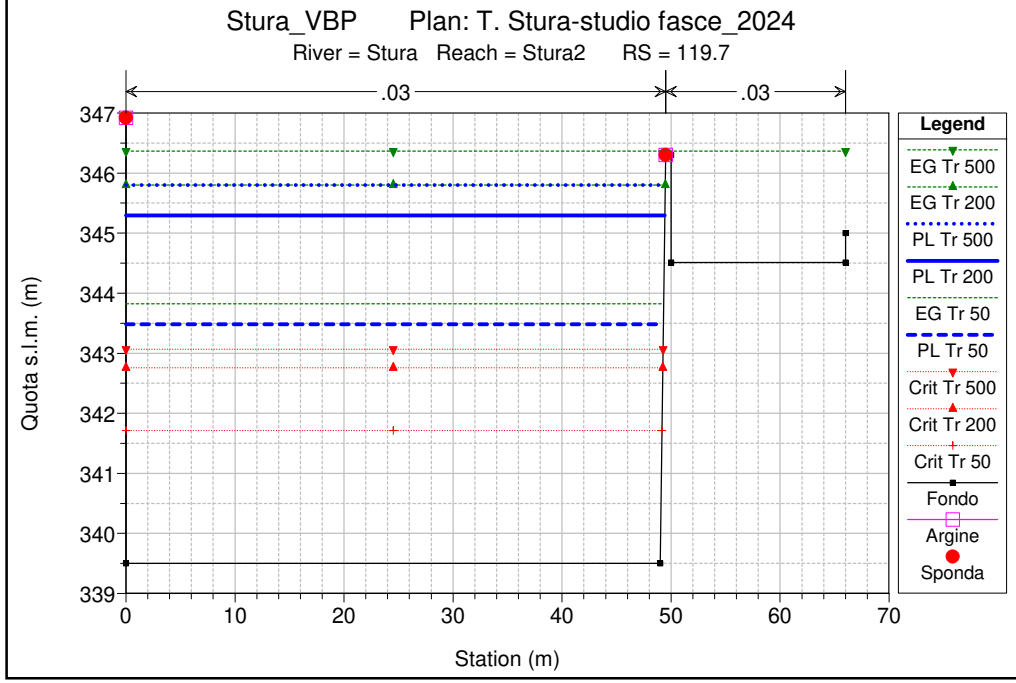

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 123 BR
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

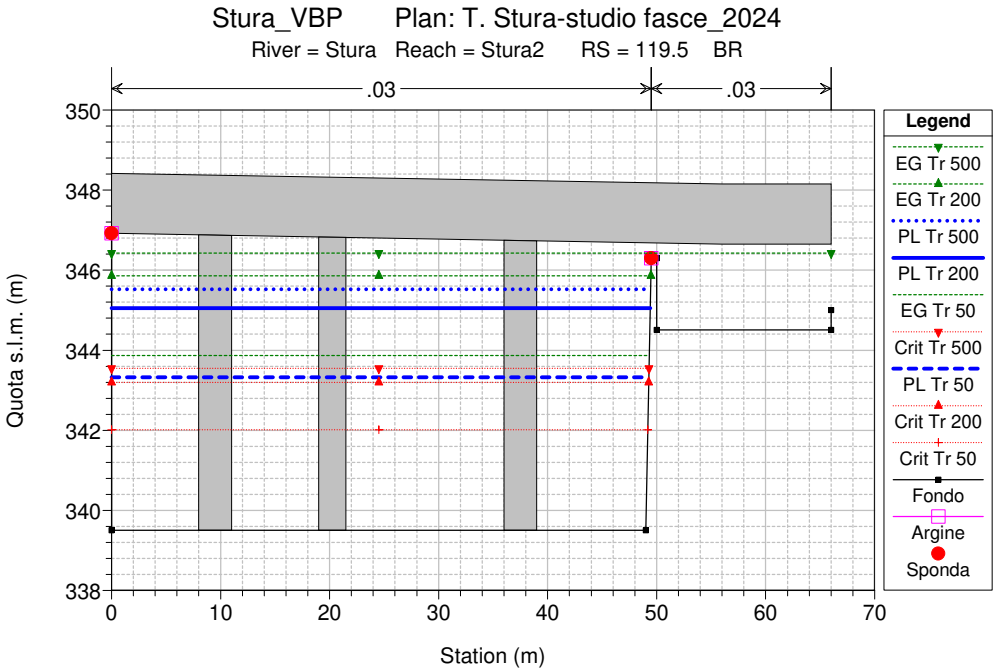

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 122.5
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

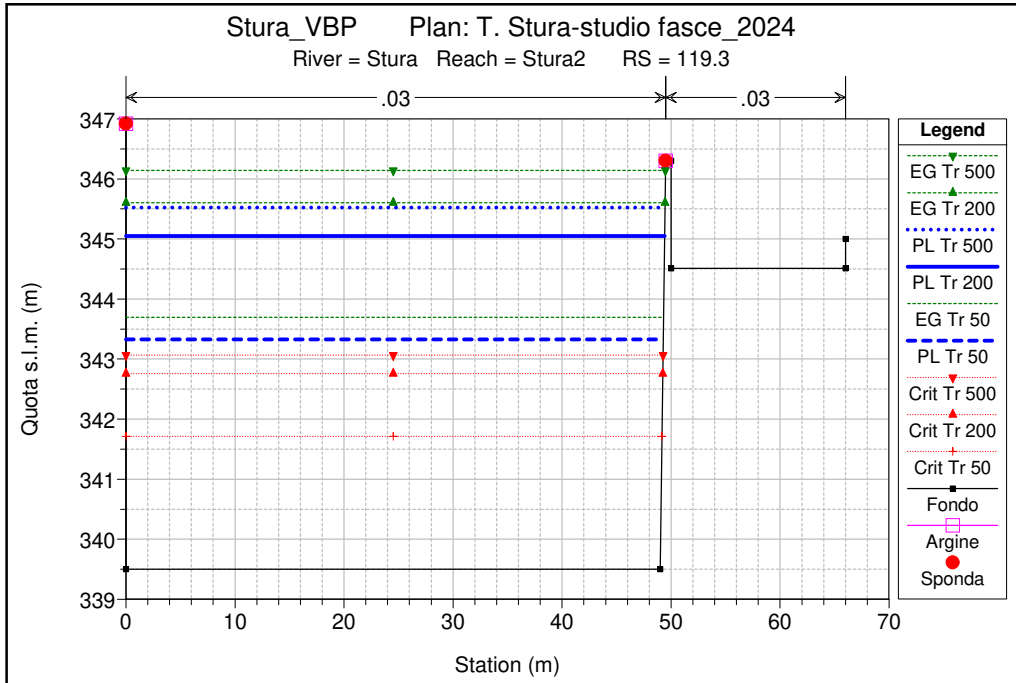

T. Stura - studio fasce
River = Stura Reach = Stura2 RS = 122
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

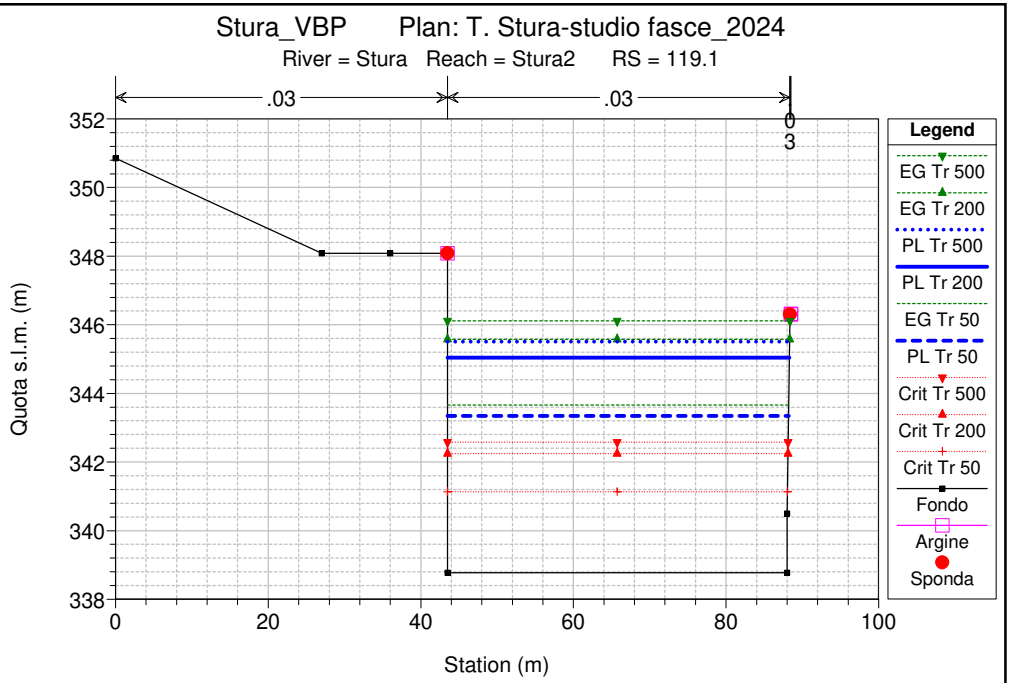

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = Stura2 RS = 121
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

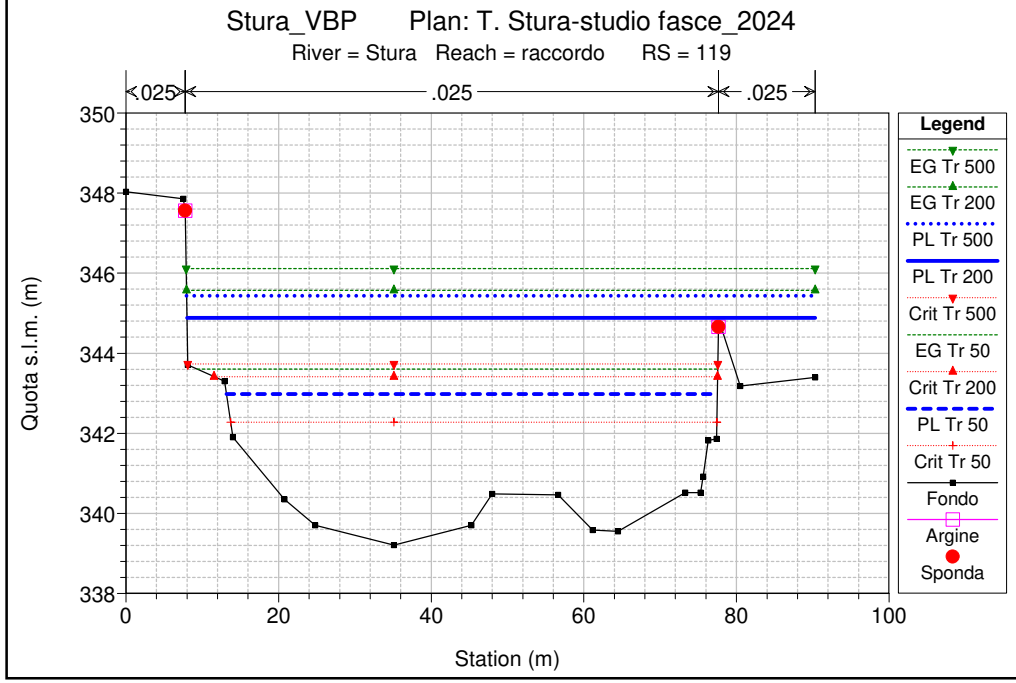

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = Stura2 RS = 120
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

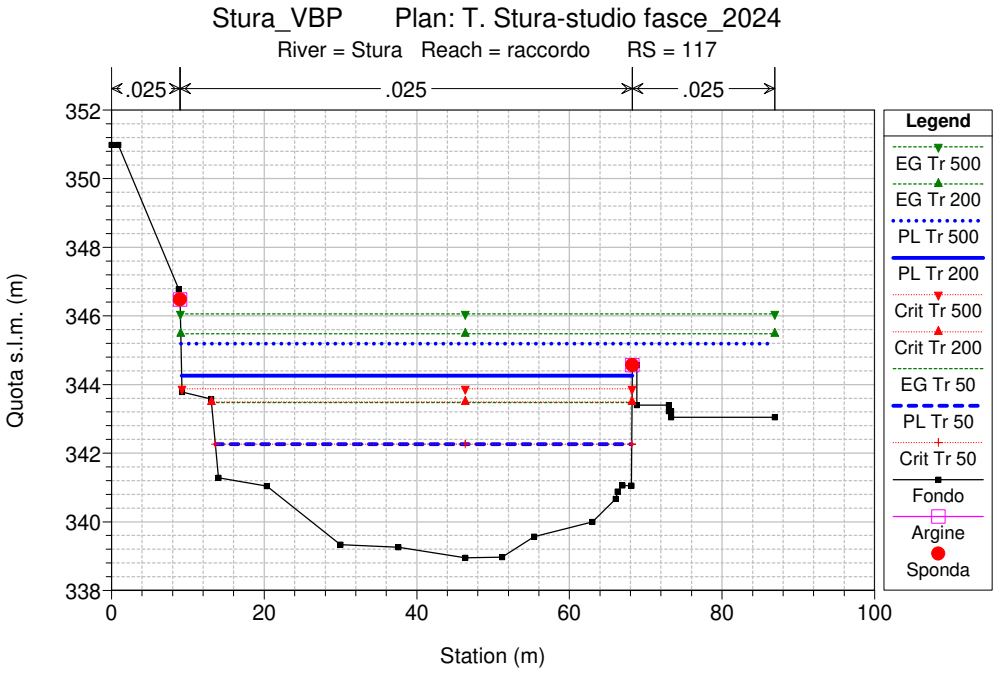

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = Stura2 RS = 119.7
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Argine
Sponda

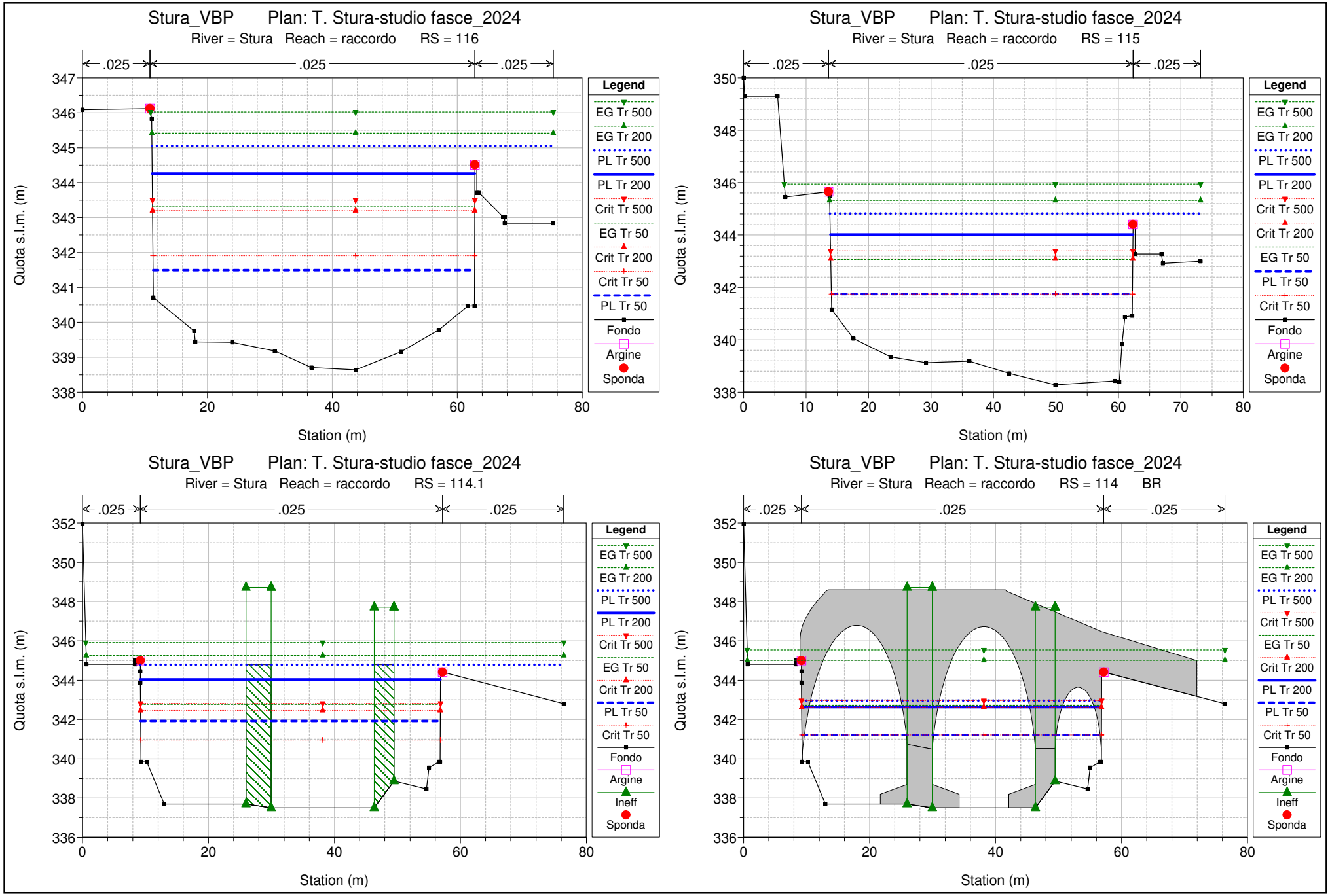

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = Stura2 RS = 119.5 BR
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Argine
Sponda

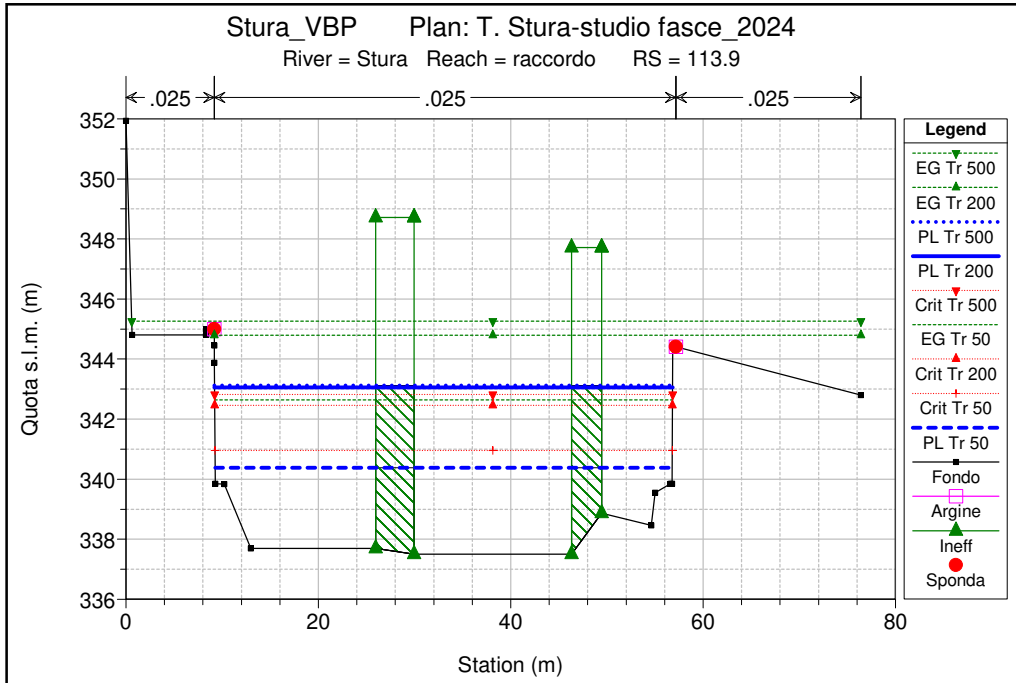

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = Stura2 RS = 119.3
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Argine
Sponda

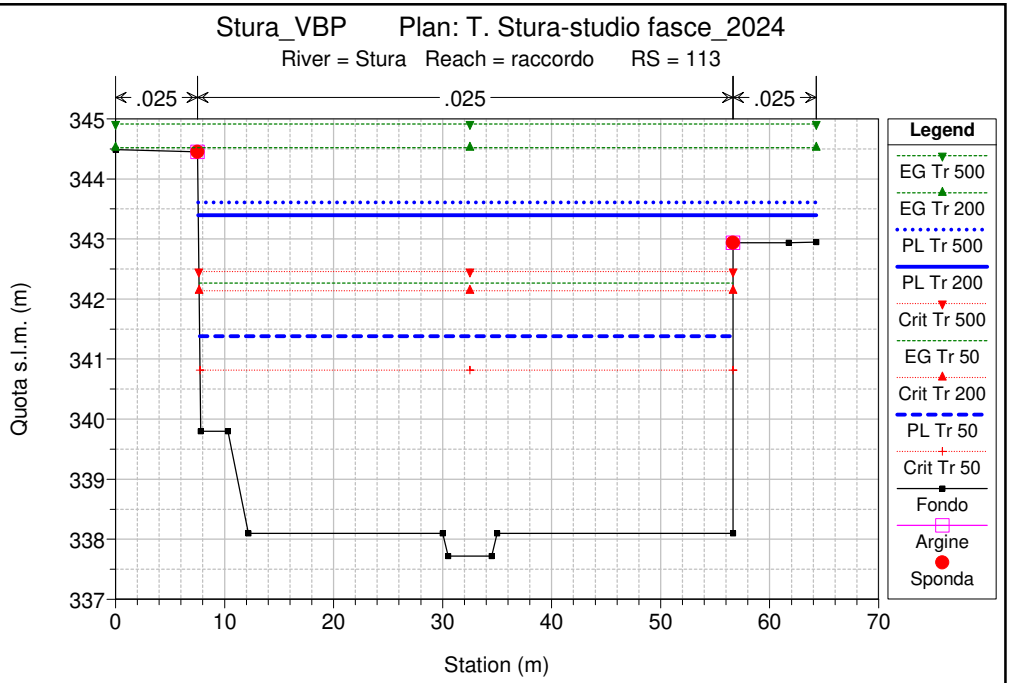

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = Stura2 RS = 119.1
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Argine
Sponda

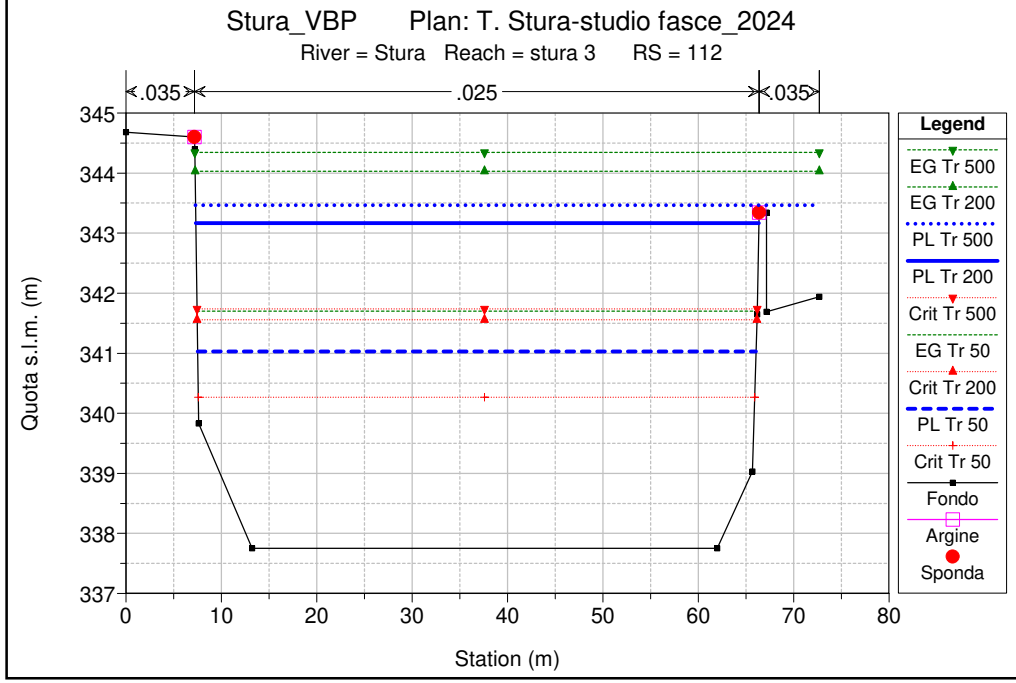

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = raccordo RS = 119
.025
.025
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

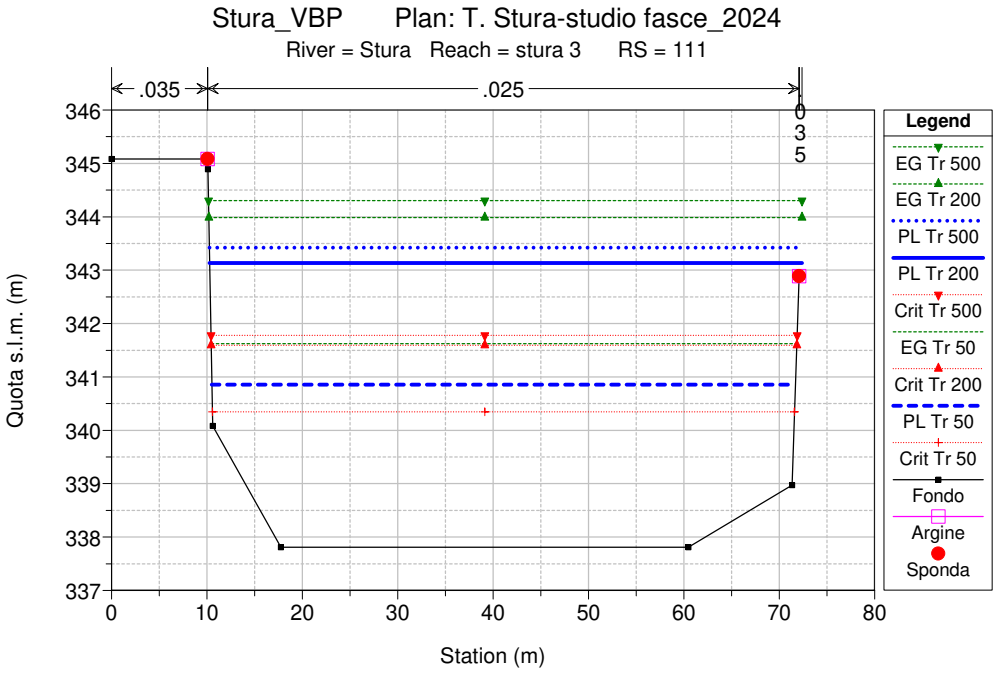

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = raccordo RS = 117
.025
.025
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

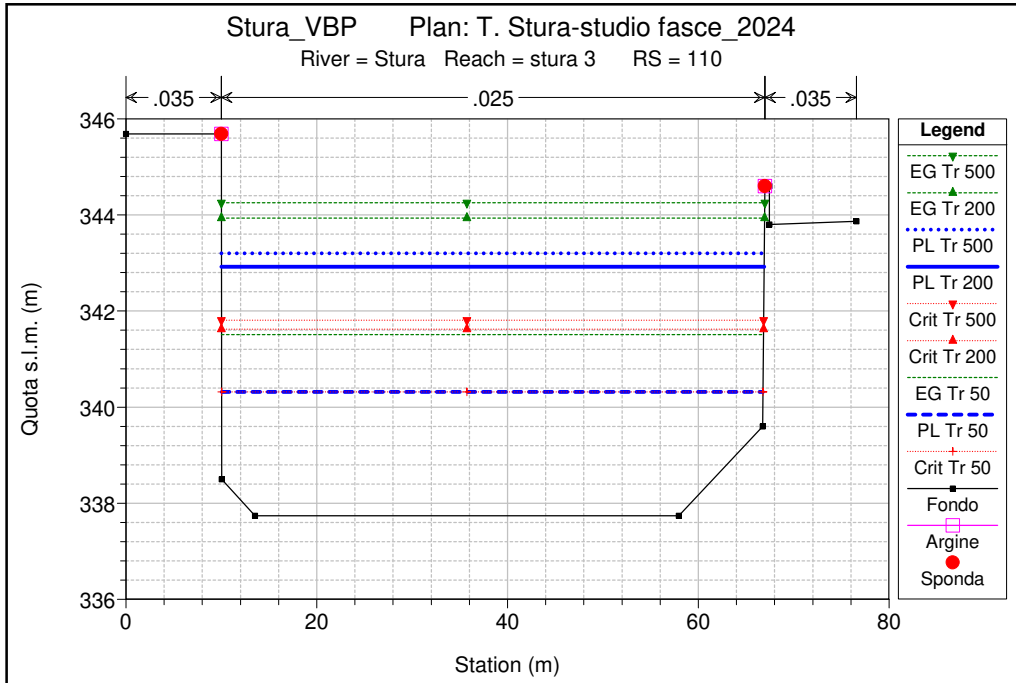

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = raccordo RS = 116
.025
.025
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda
Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = raccordo RS = 115
Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = raccordo RS = 114.1
Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = raccordo RS = 114 BR
Ineff

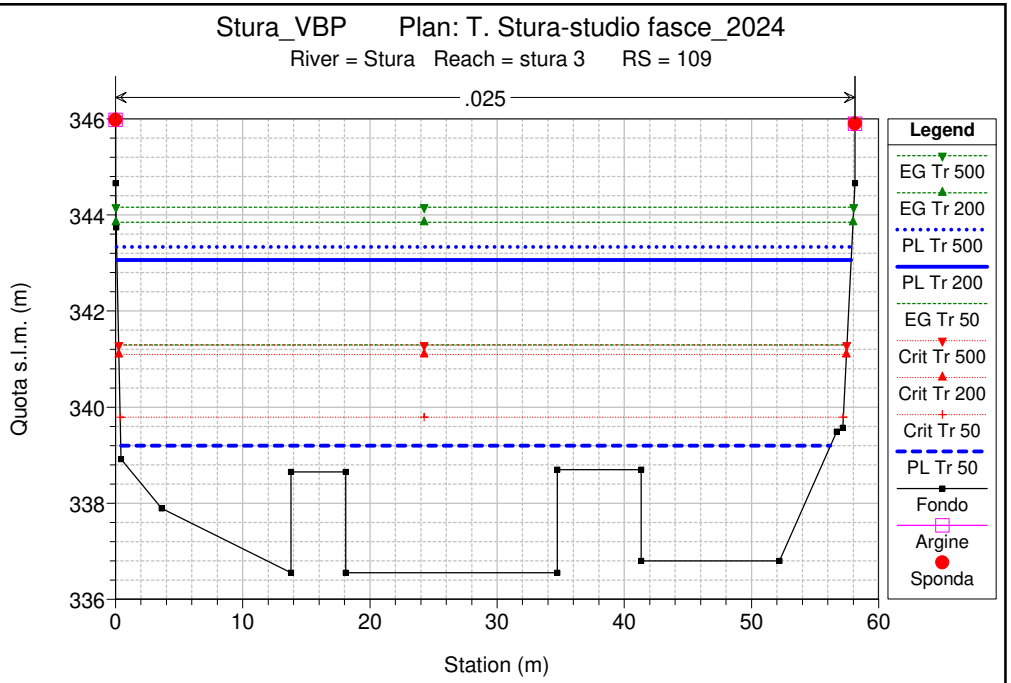

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = raccordo RS = 113.9
.025
.025
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Ineff
Sponda

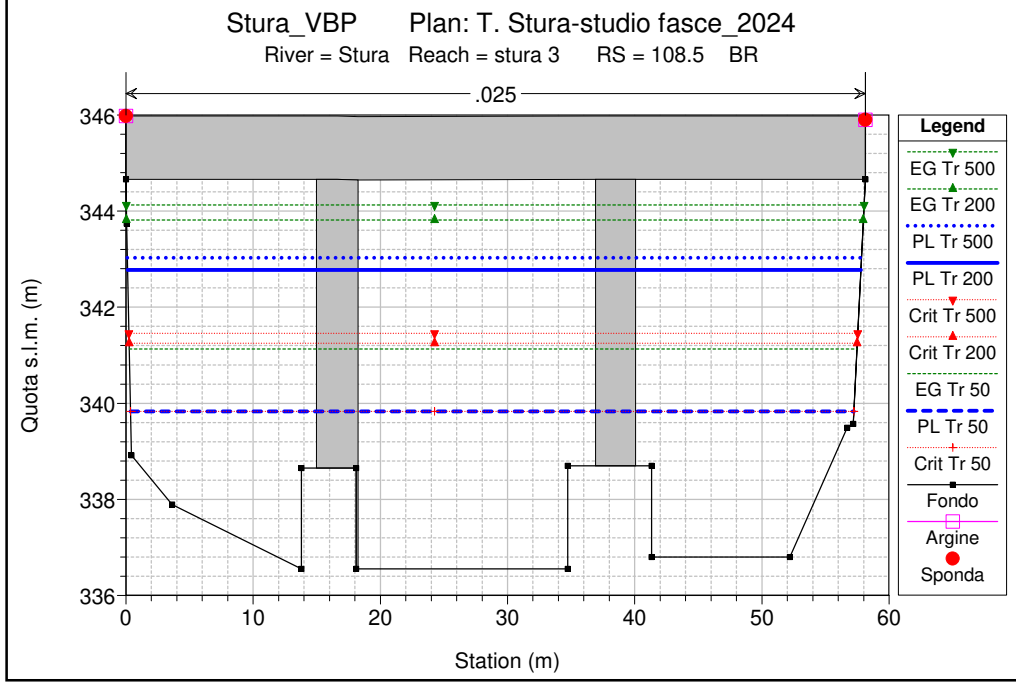

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = raccordo RS = 113
.025
.025
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

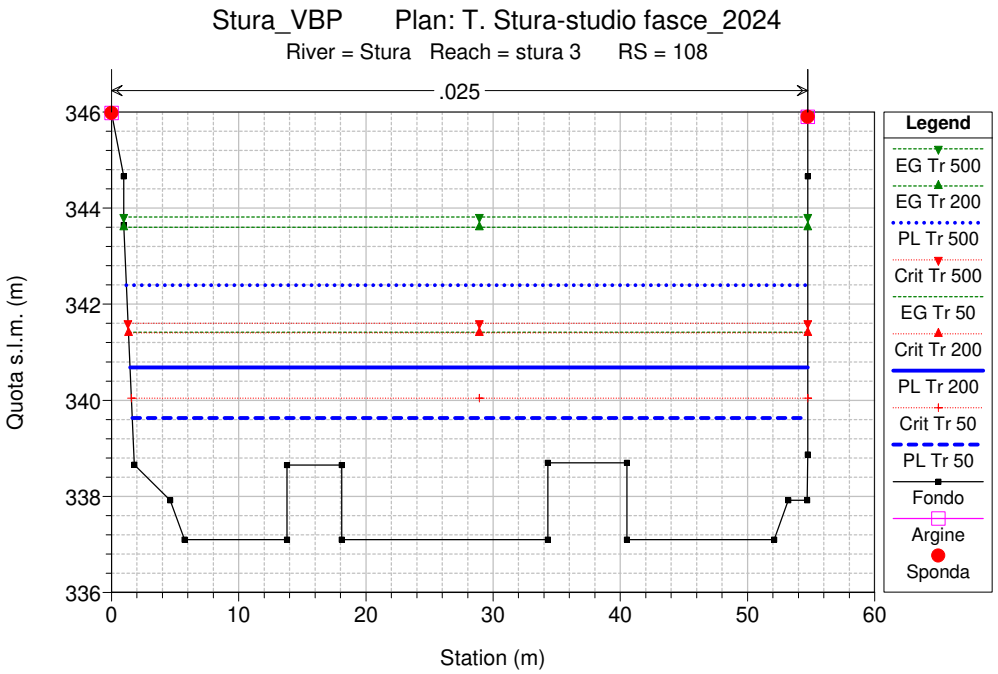

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = stura 3 RS = 112
.035
.025
.035
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

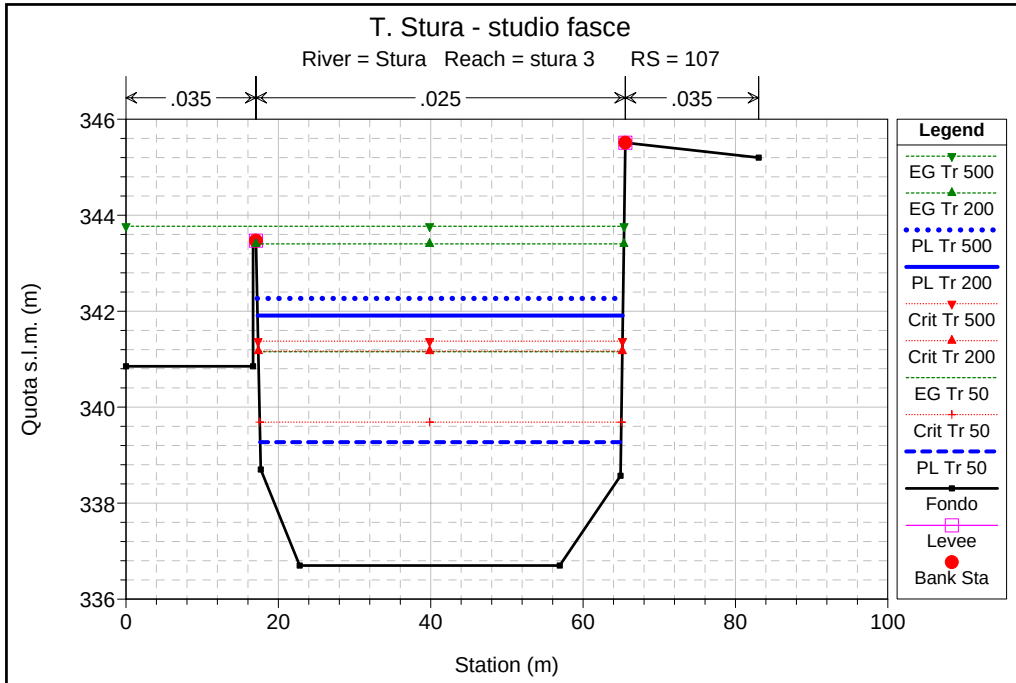

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = stura 3 RS = 111
.035
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

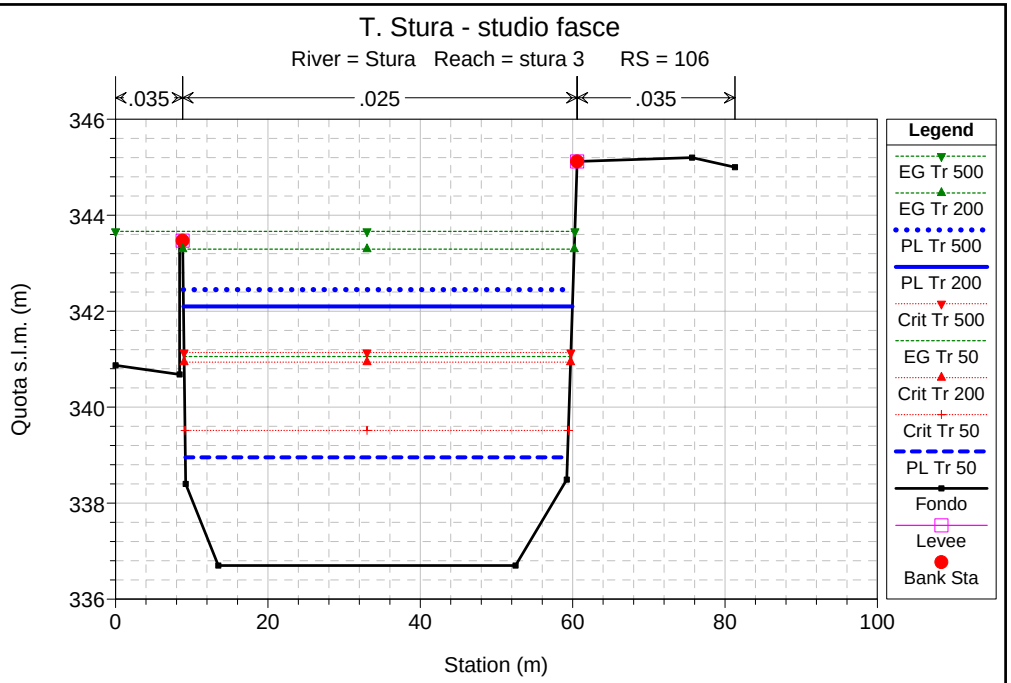

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = stura 3 RS = 110
.035
.025
.035
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

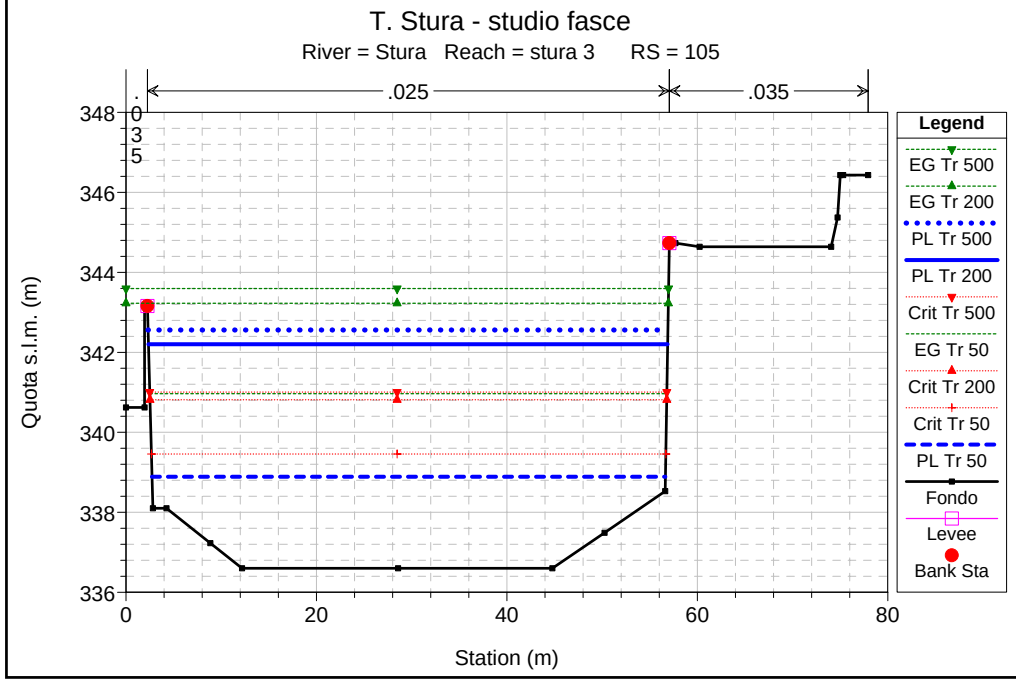

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = stura 3 RS = 109
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

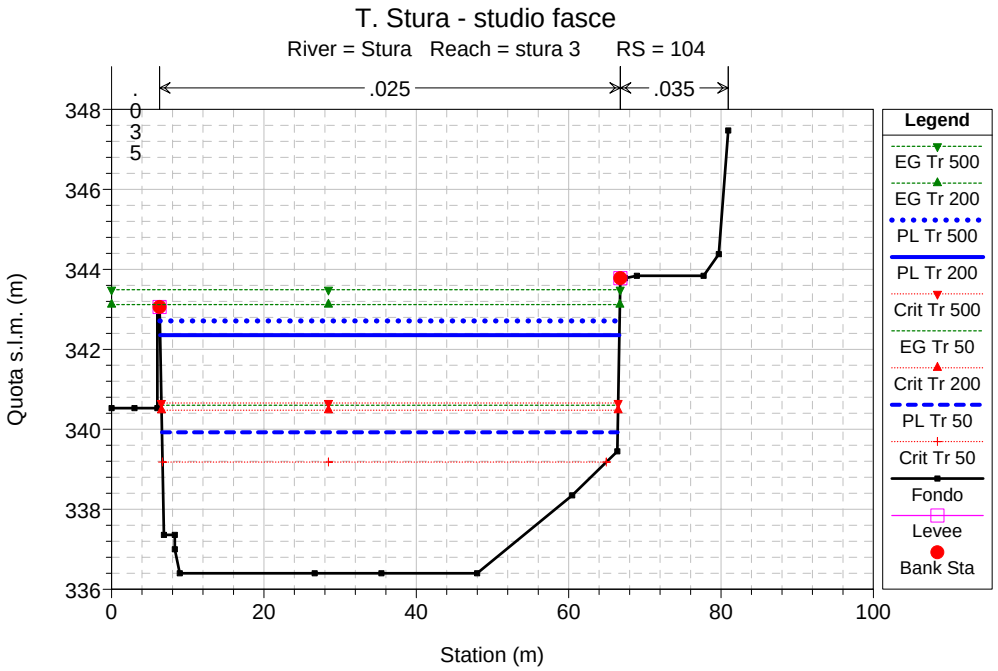

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = stura 3 RS = 108.5 BR
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

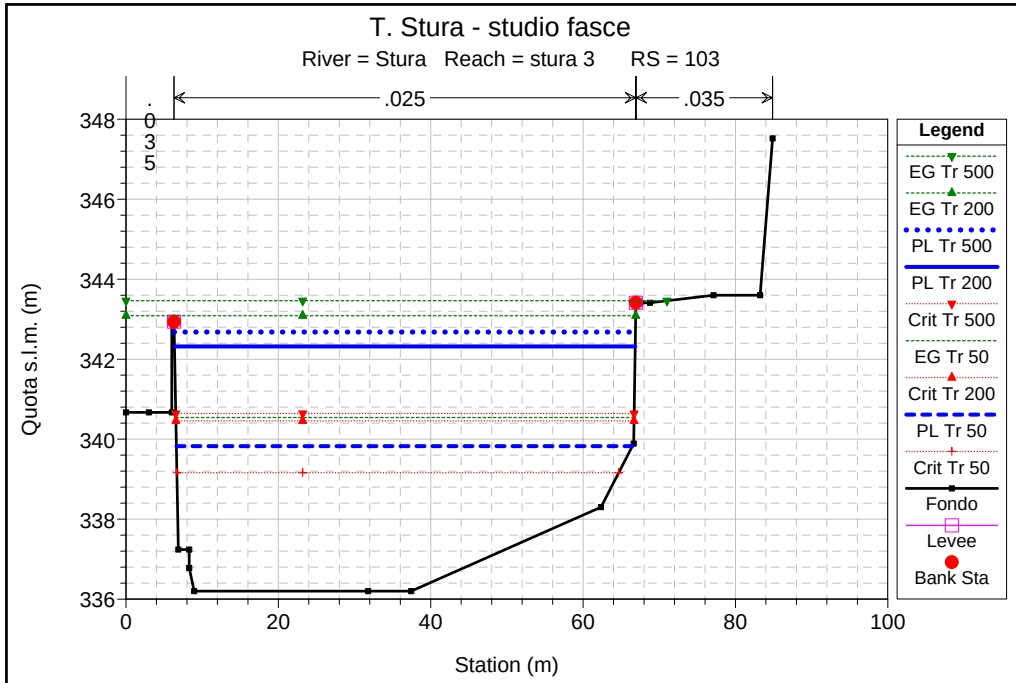

Stura_VBP Plan: T. Stura-studio fasce_2024
River = Stura Reach = stura 3 RS = 108
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

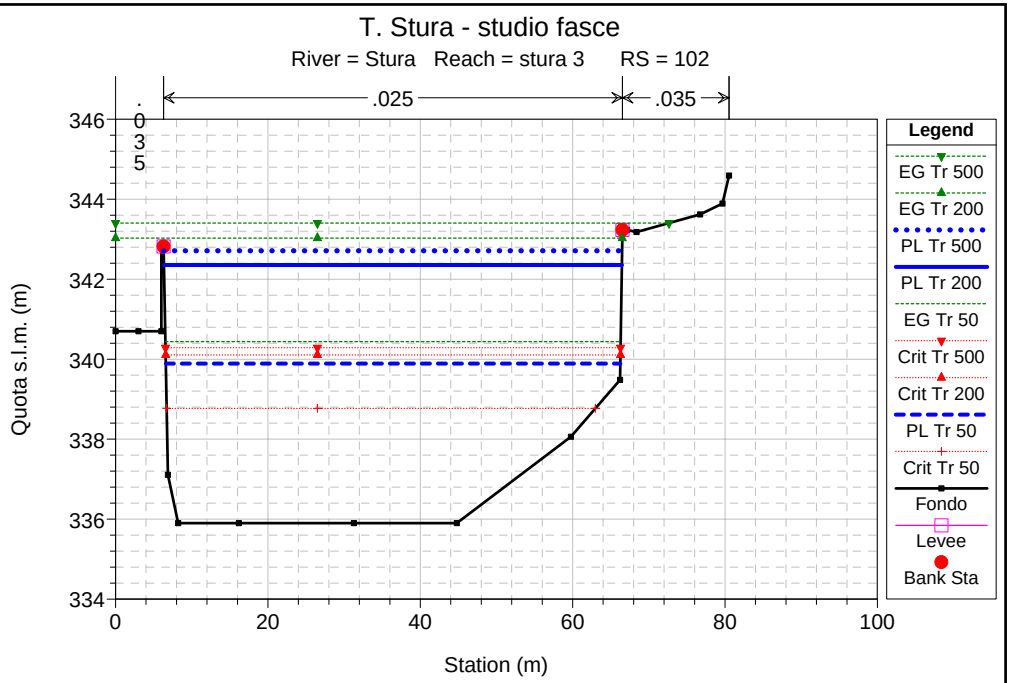

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 107
.035
.025
.035
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

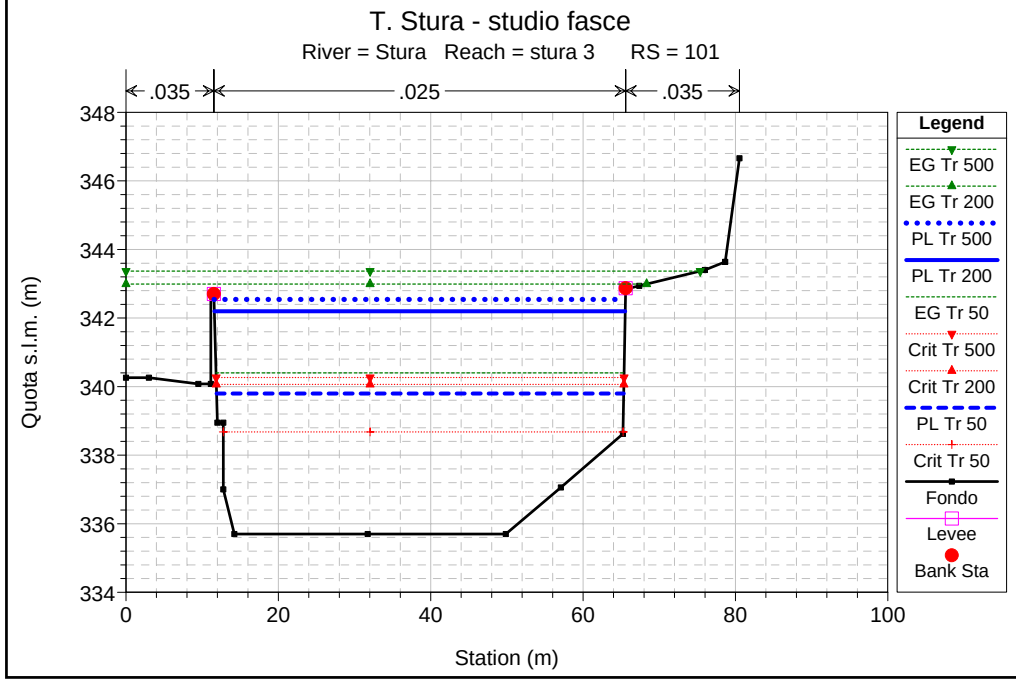

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 106
.035
.025
.035
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

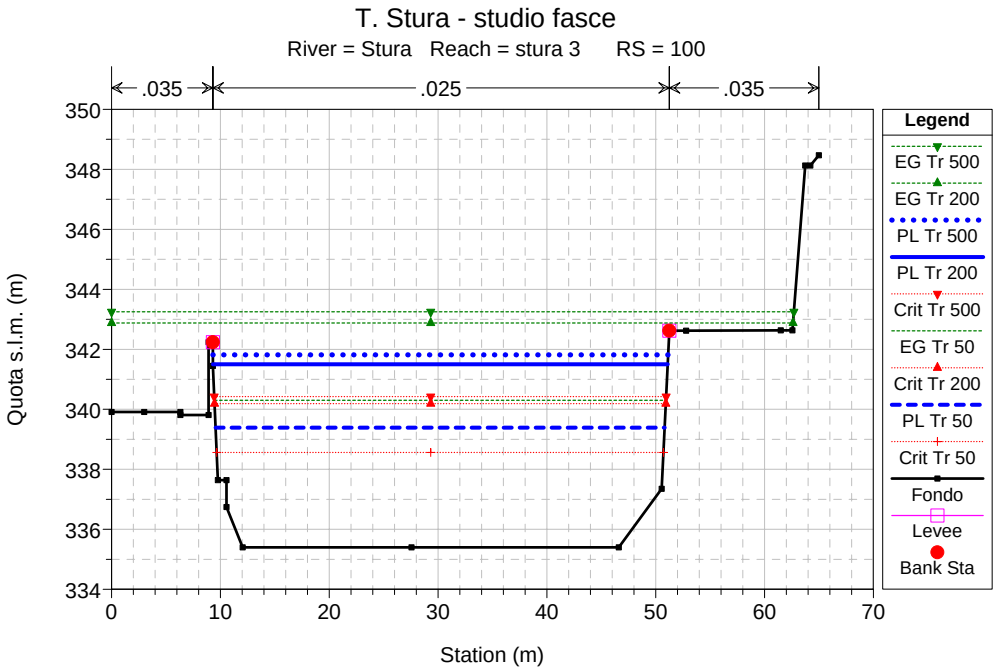

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 105
.025
.035
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

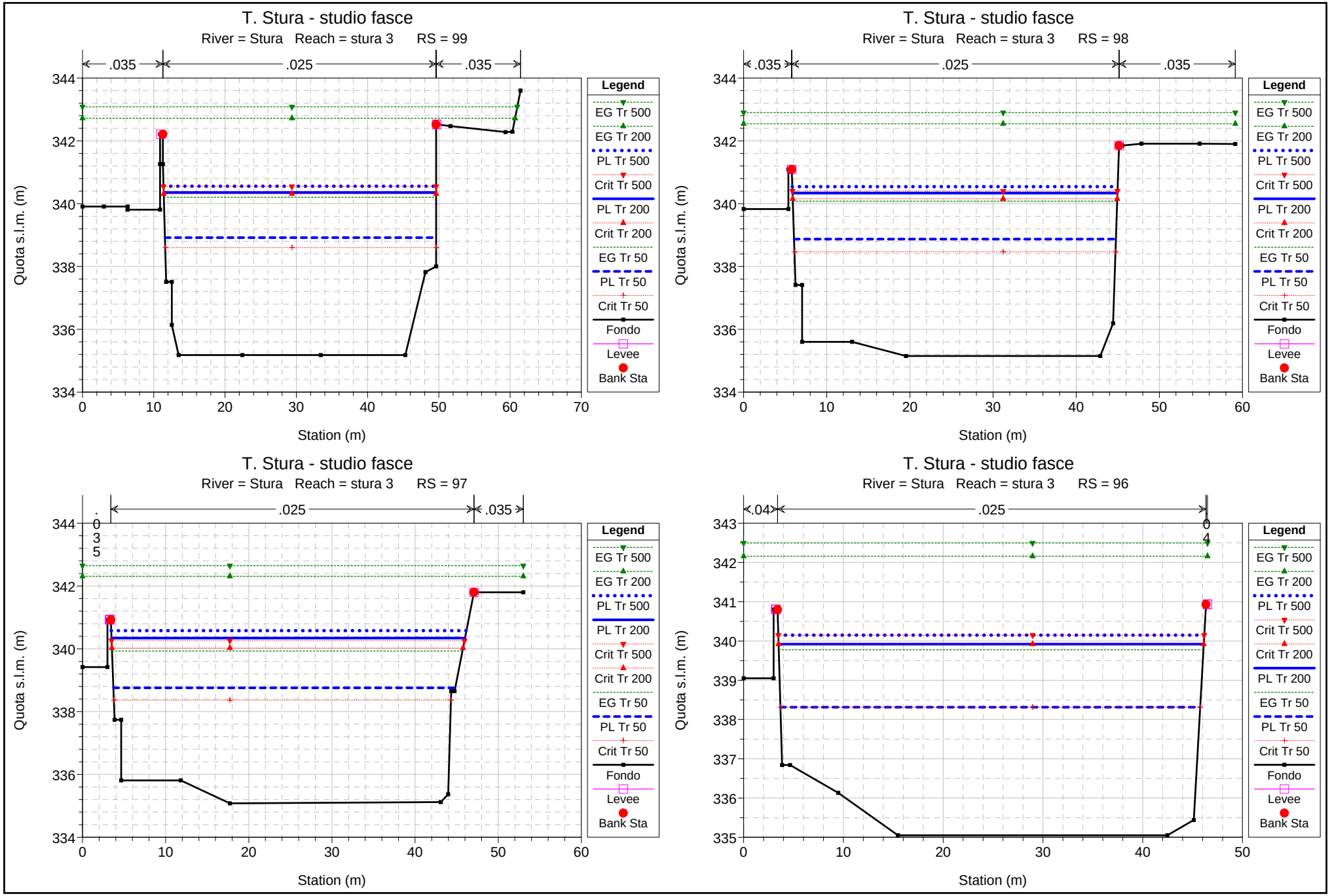

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 104
.025
.035
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

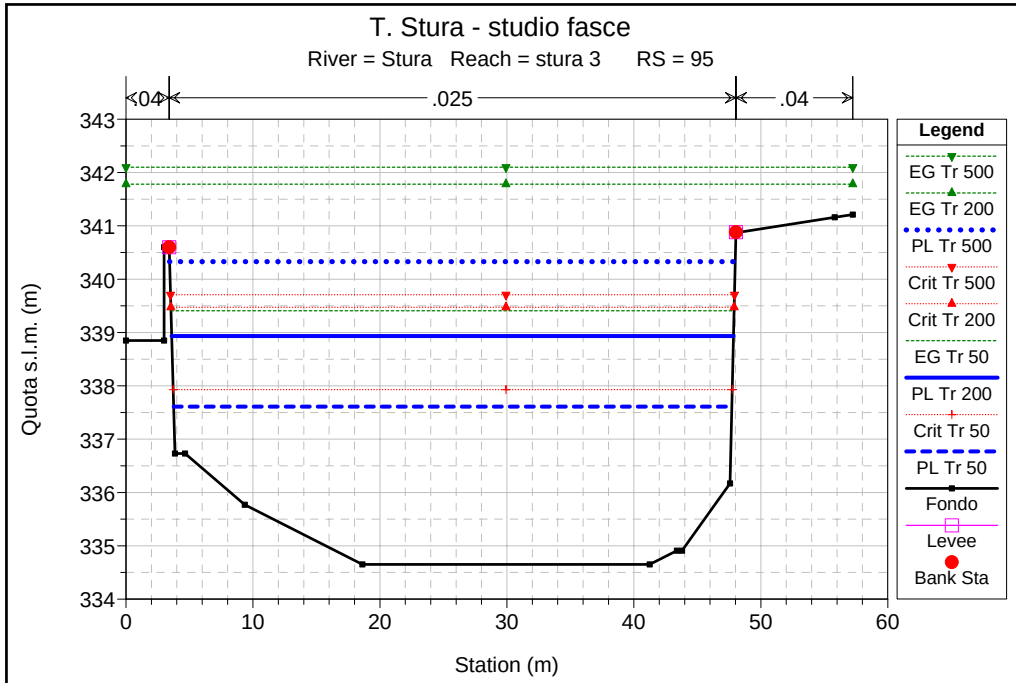

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 103
.035
.025
.035
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

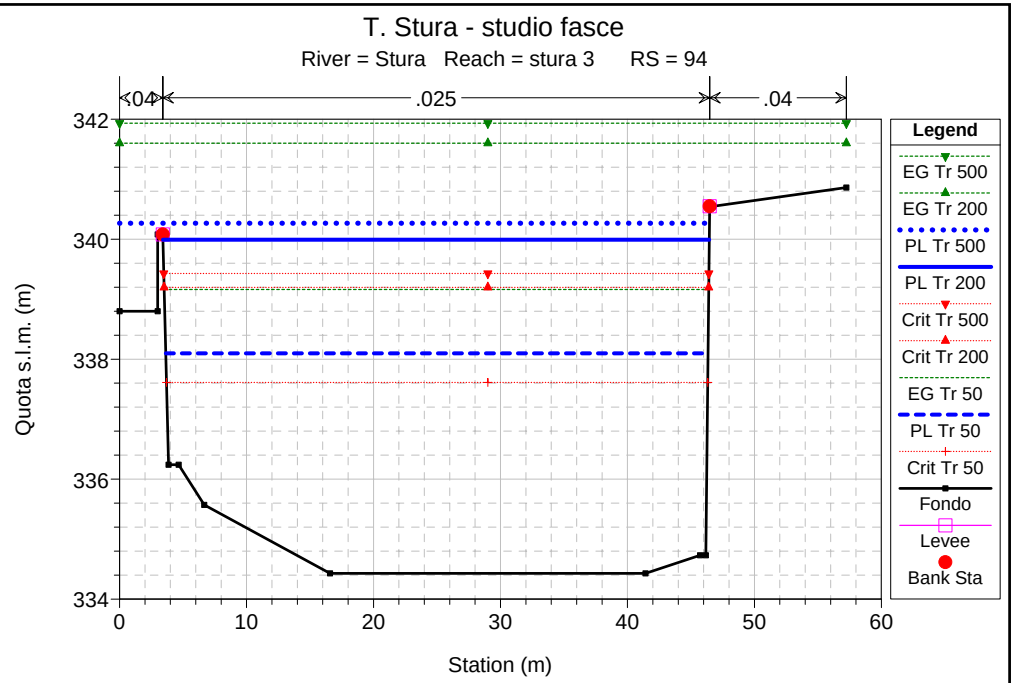

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 102
.035
.025
.035
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

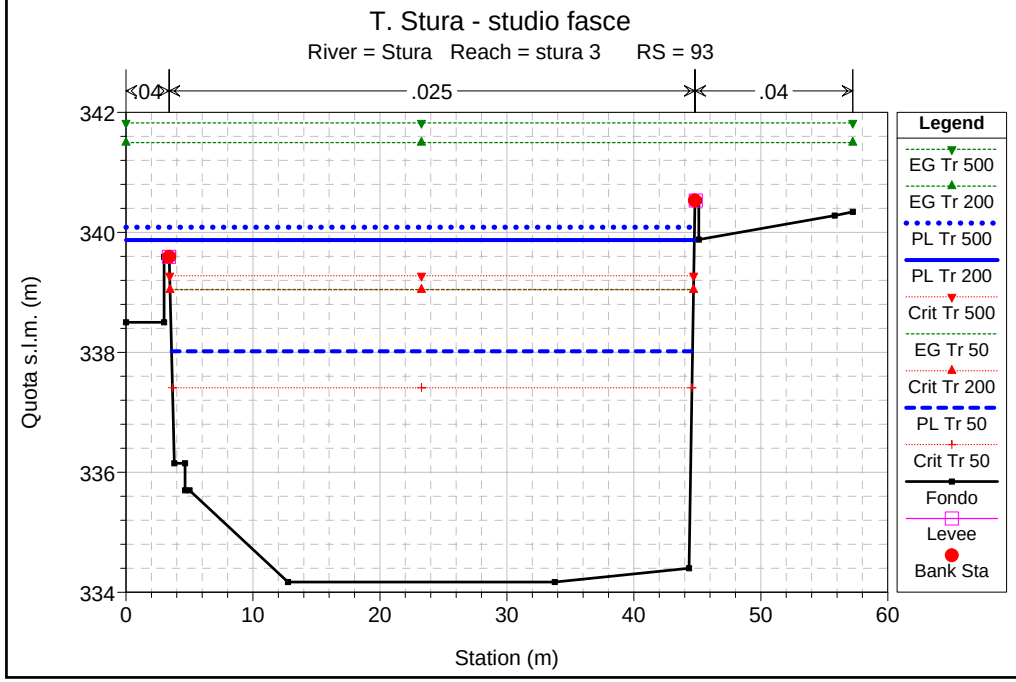

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 101
.035
.025
.035
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

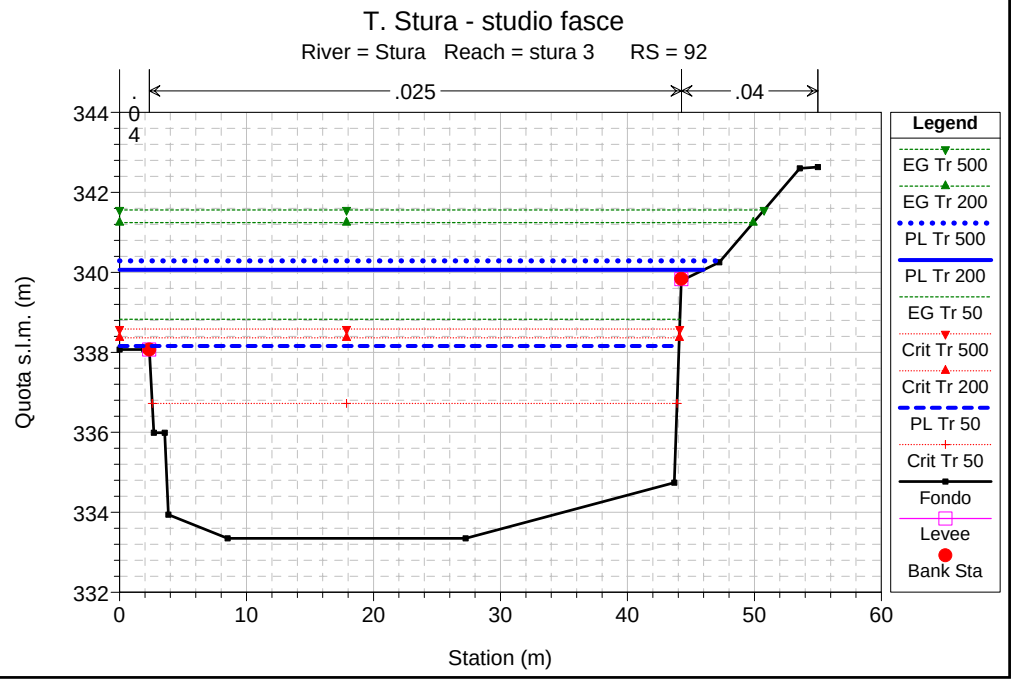

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 100
.035
.025
.035
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

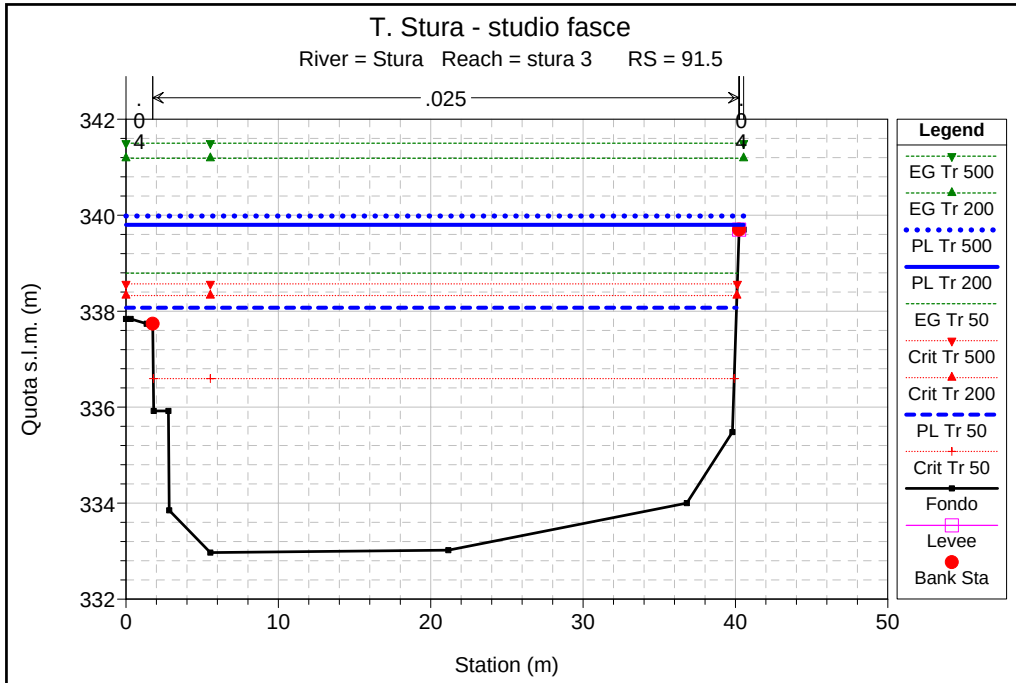

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 99
.035
.025
.035
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
PL Tr 200
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 98
.035
.025
.035
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
PL Tr 200
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 97
.025
.035
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 96
.04
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

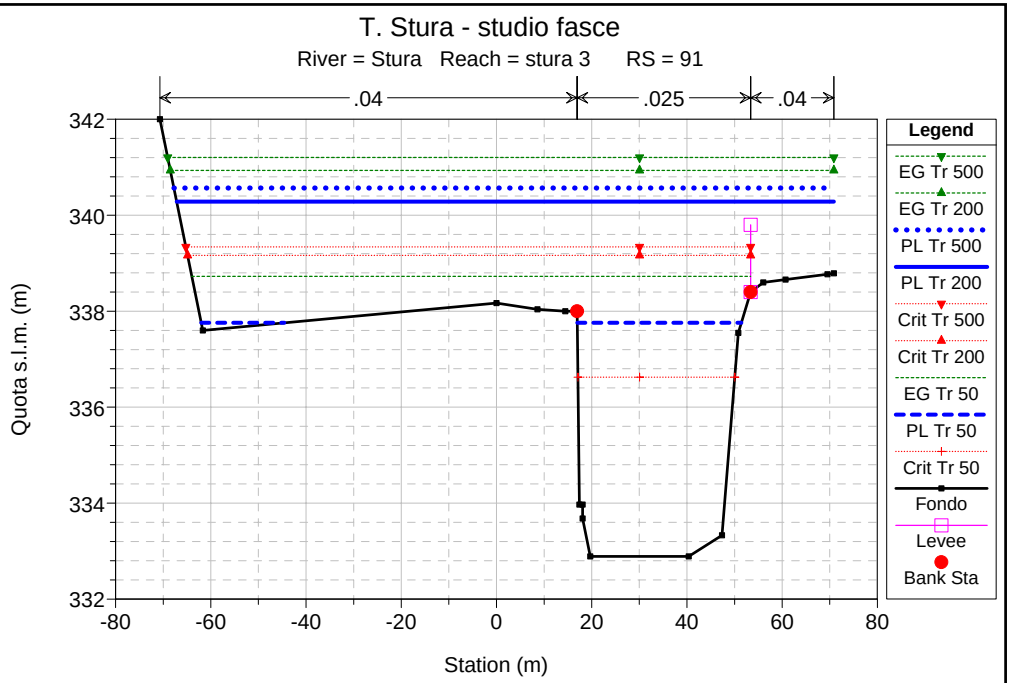

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 95
.04
.025
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

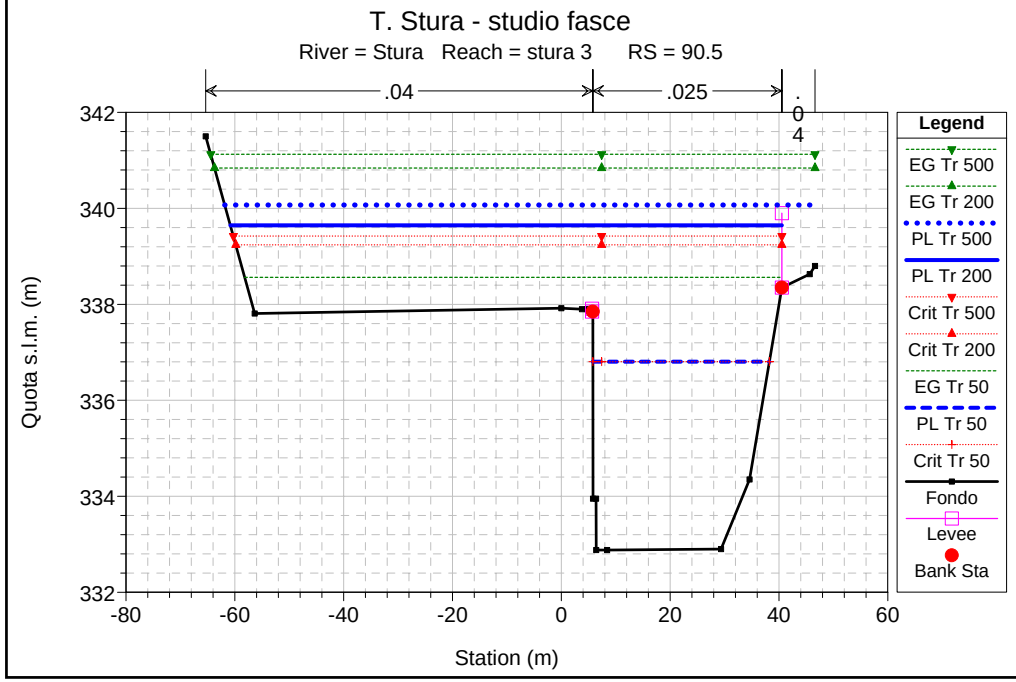

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 94
.04
.025
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

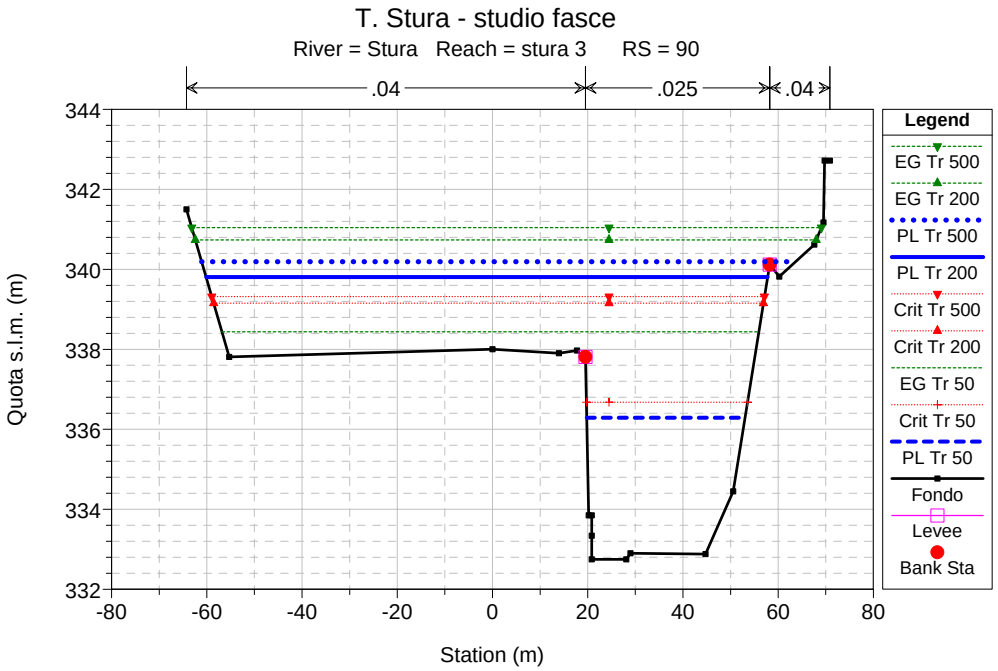

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 93
.04
.025
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

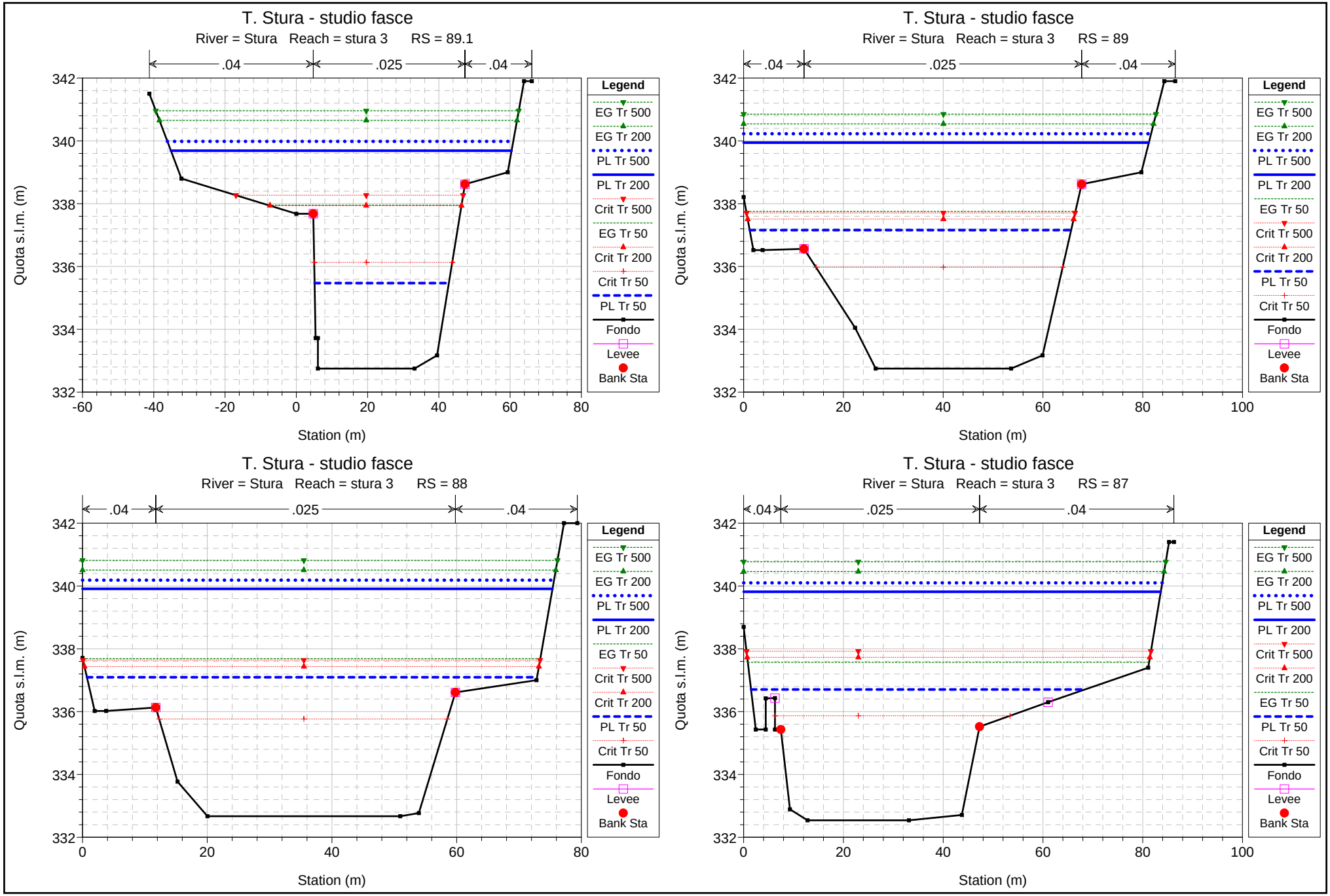

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 92
.04
.025
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

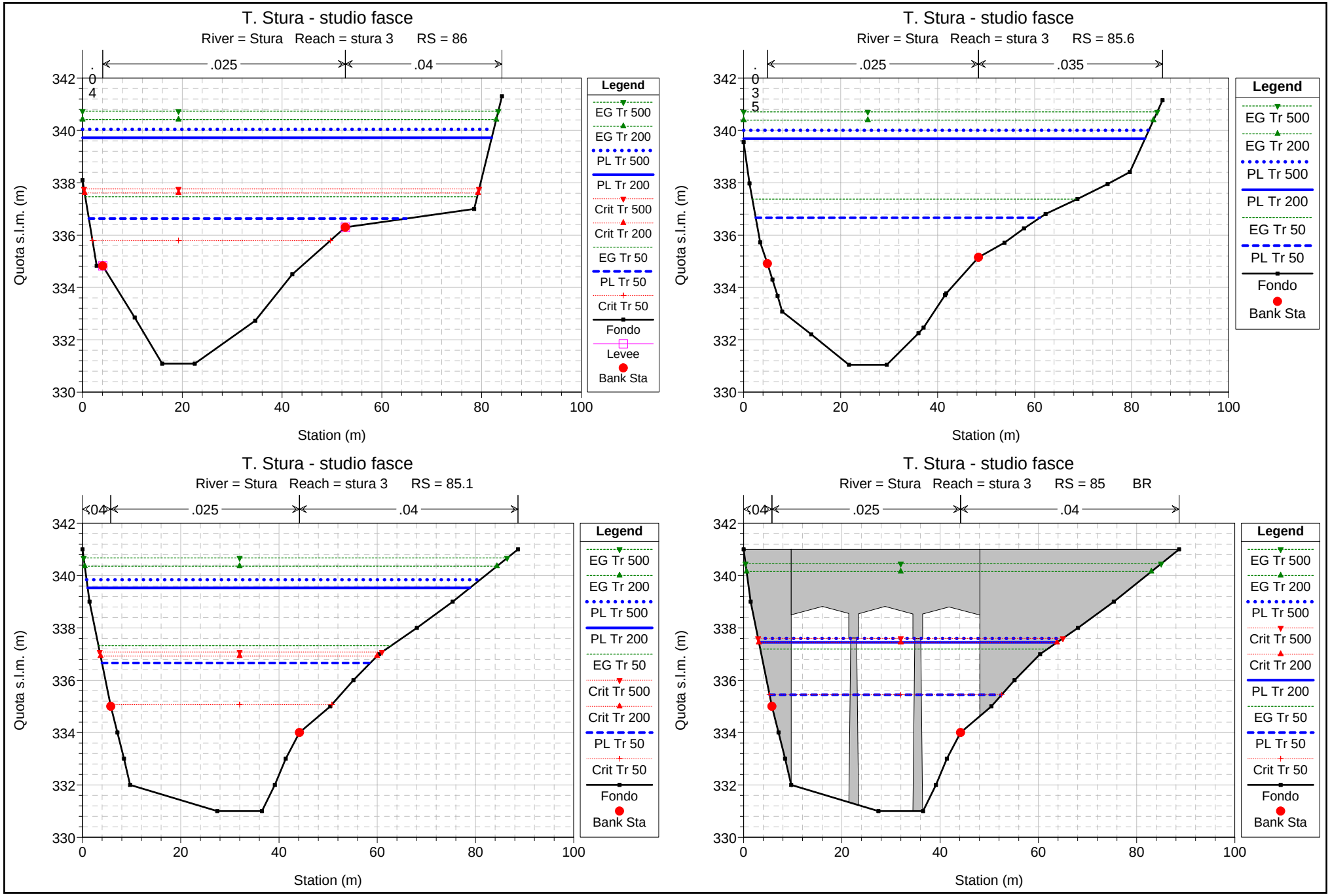

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 91.5
.025
.04
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

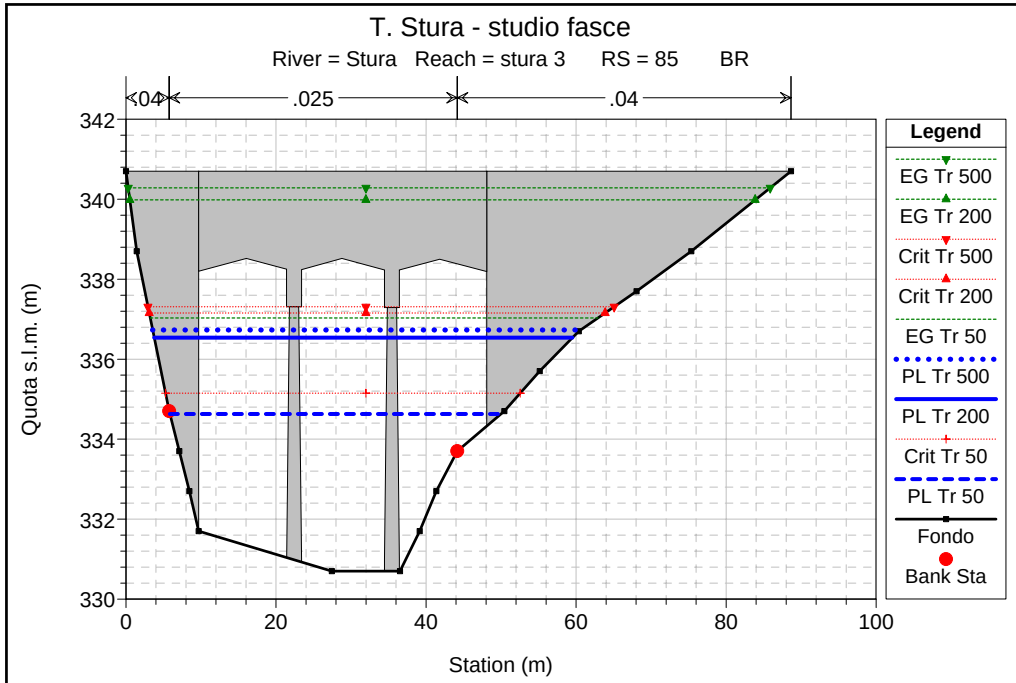

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 91
.04
.025
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

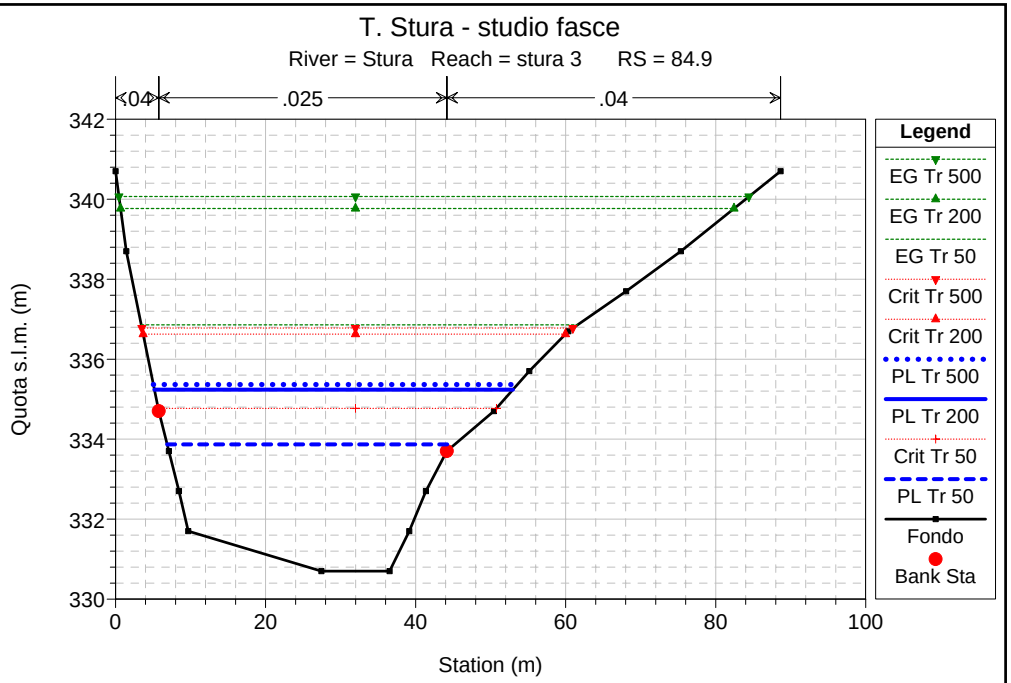

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 90.5
.04
.025
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

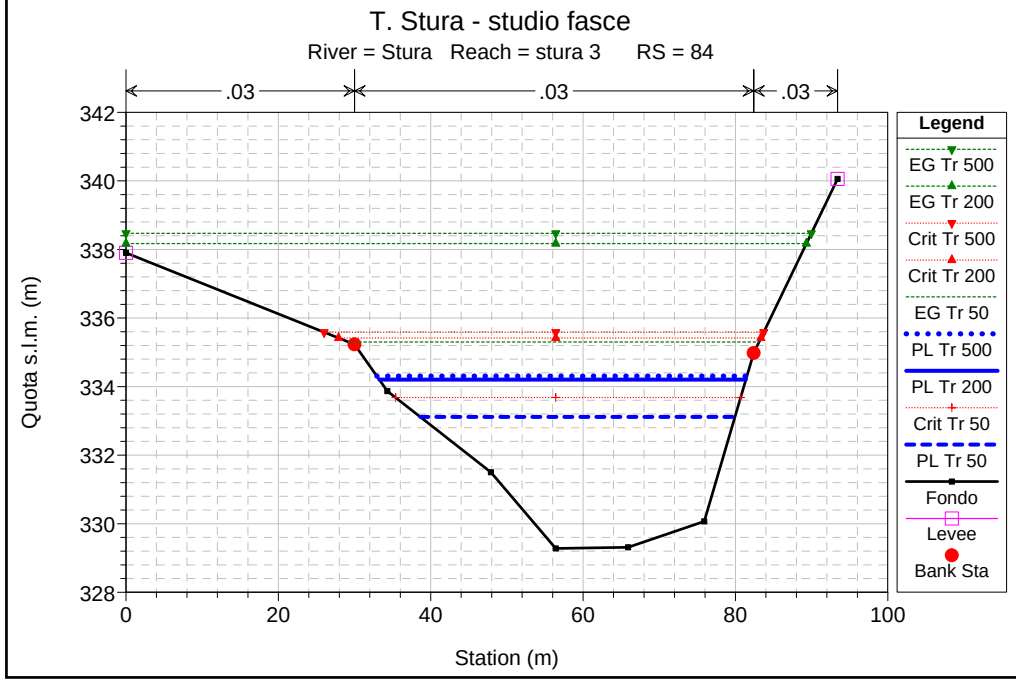

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 90
.04
.025
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

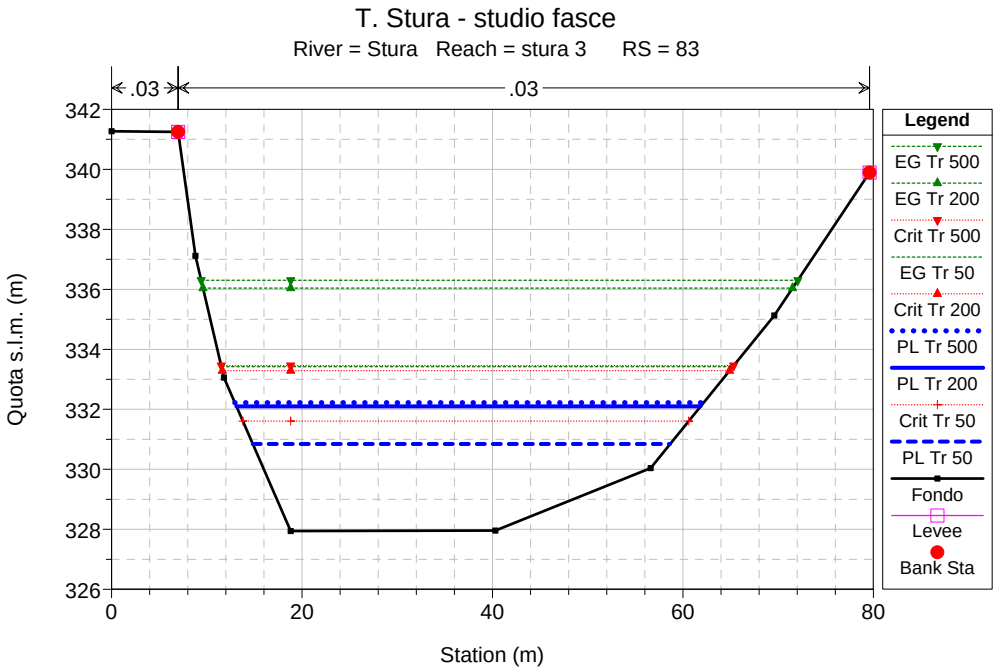

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 89.1
.04
.025
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 89
.04
.025
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 88
.04
.025
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 87
.04
.025
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

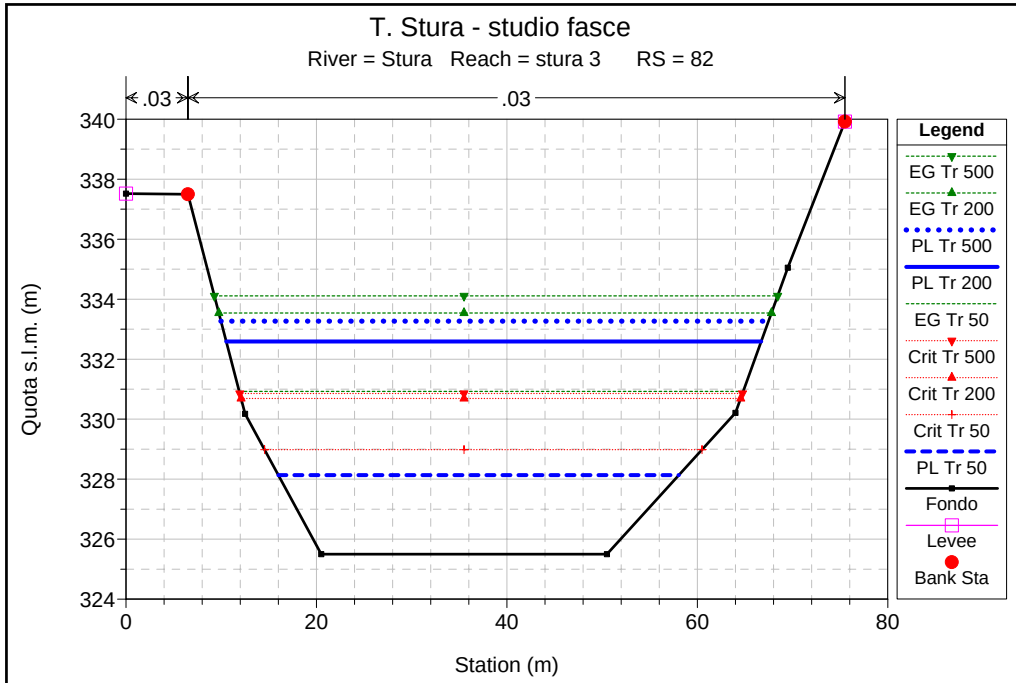

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 86
.04
.025
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 85.6
.035
.025
.035
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Fondo
Bank Sta
T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 85.1
.04
.025
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Bank Sta
T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 85 BR
.04
.025
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Bank Sta

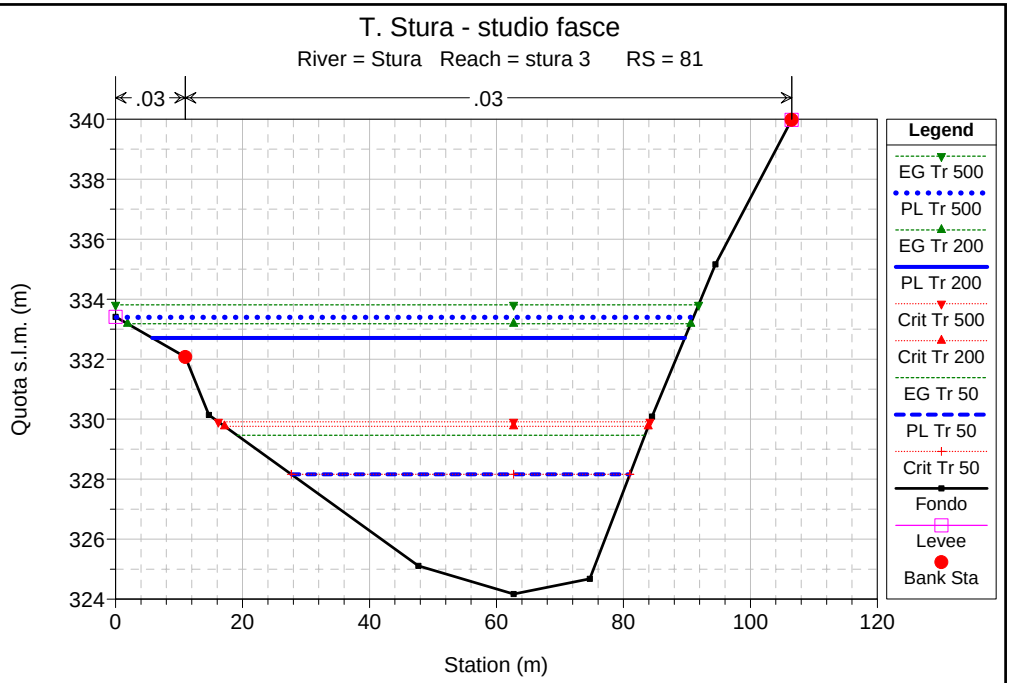

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 85 BR
.04
.025
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Bank Sta

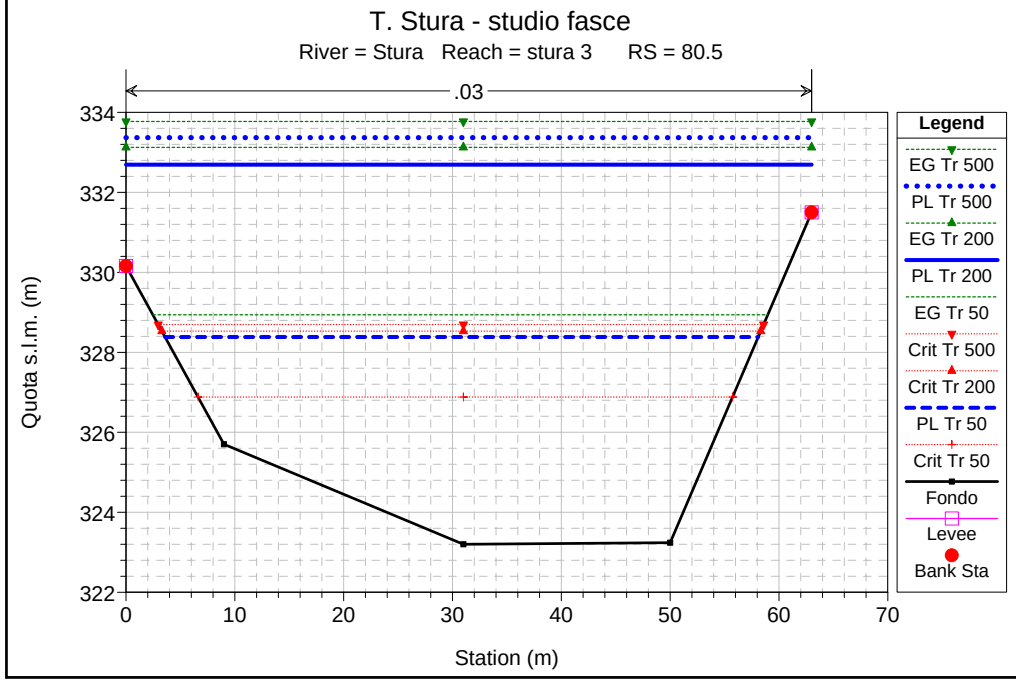

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 84.9
.04
.025
.04
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Bank Sta

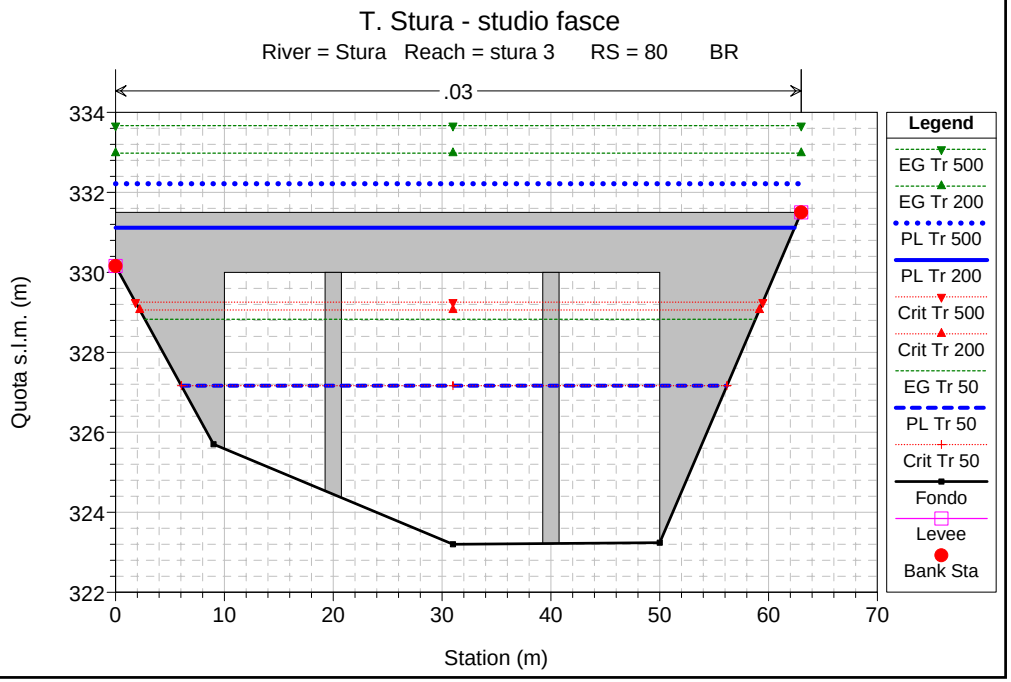

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 84
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

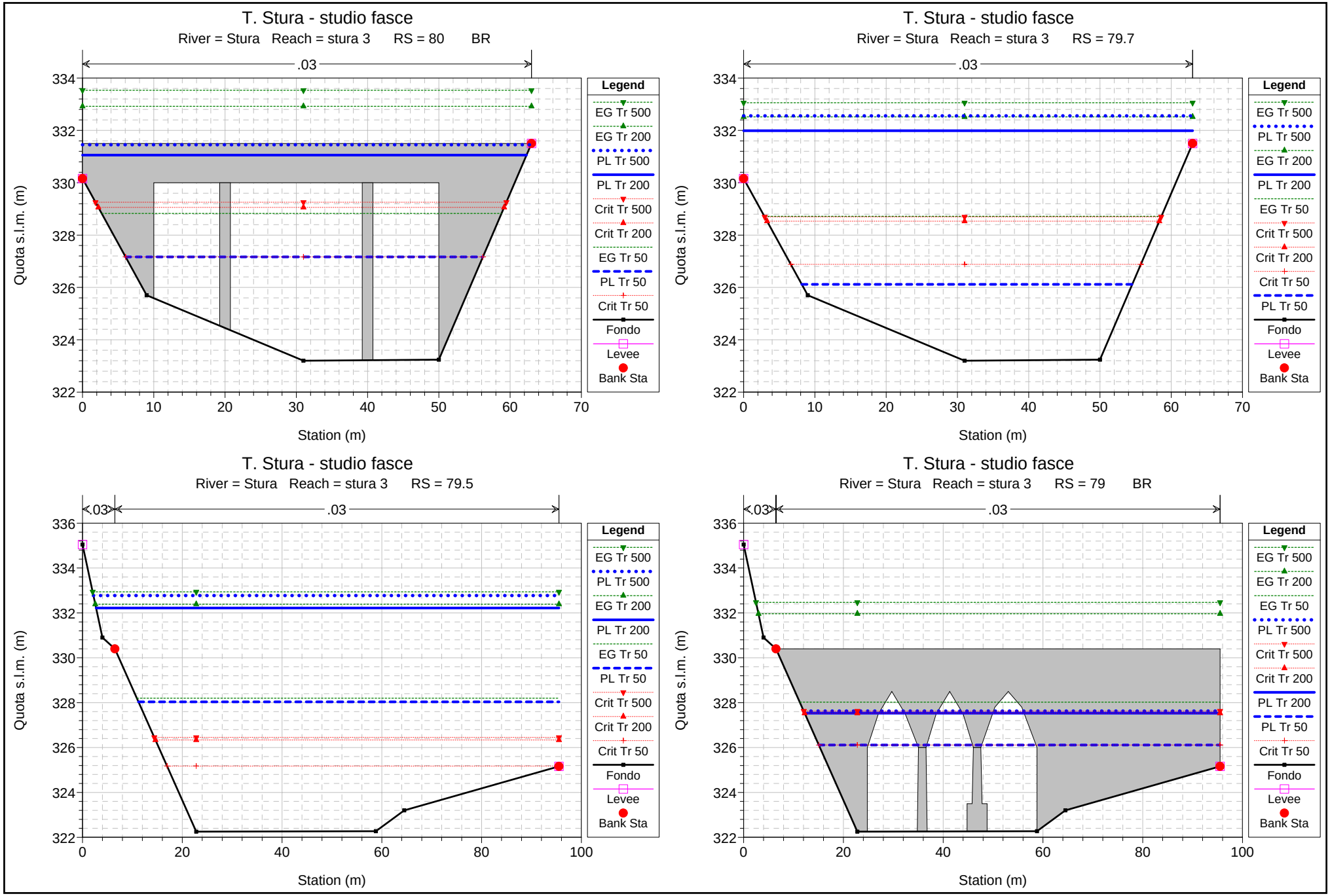

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 83
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

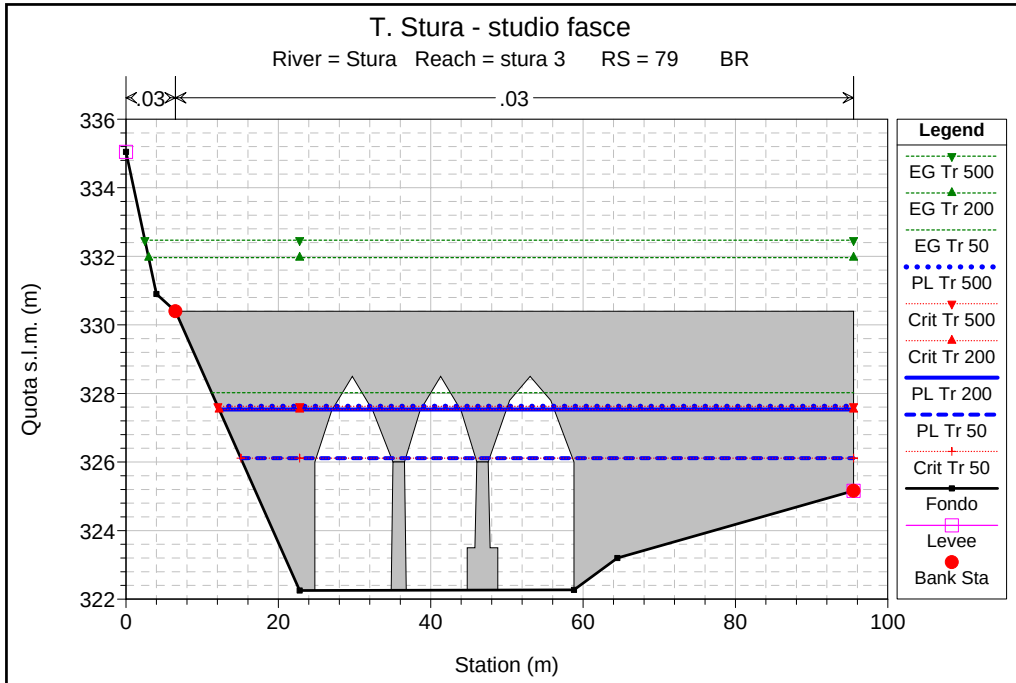

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 82
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

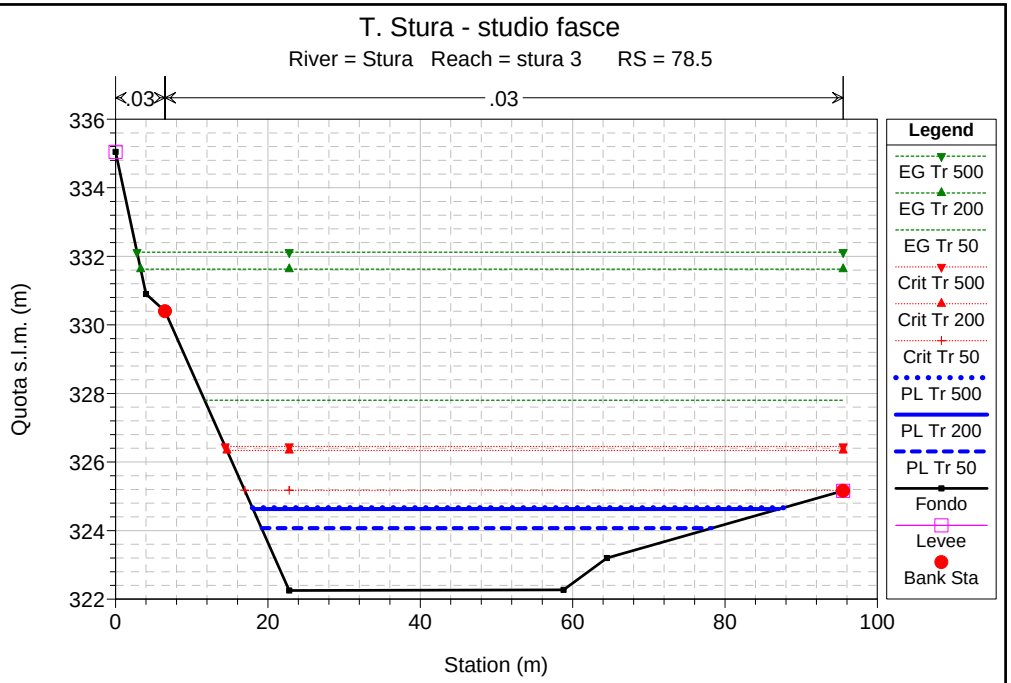

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 81
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

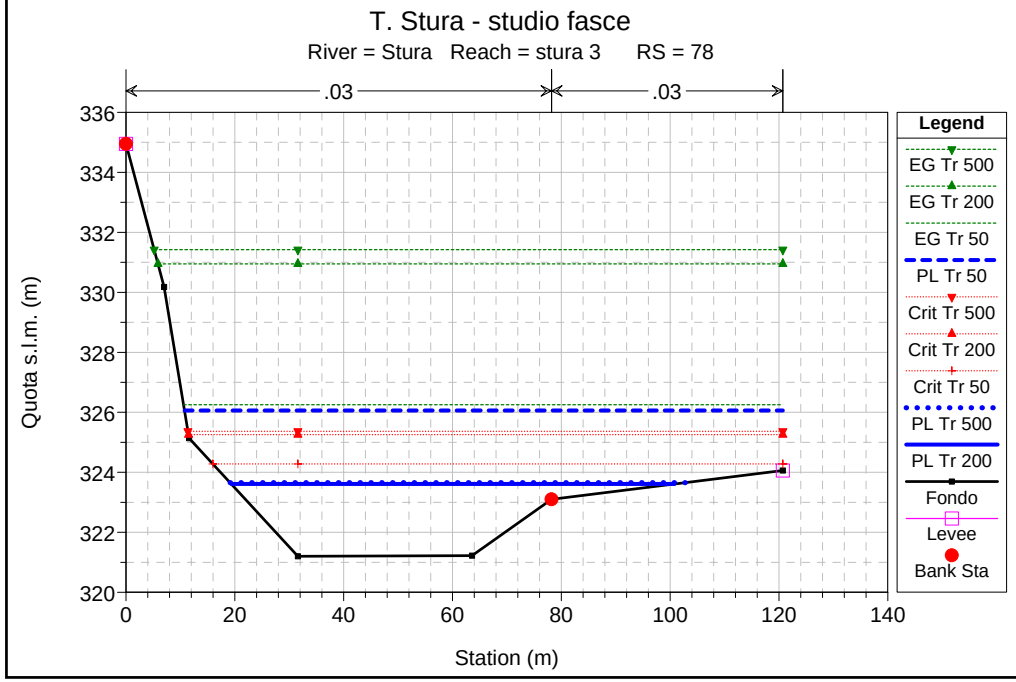

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 80.5
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

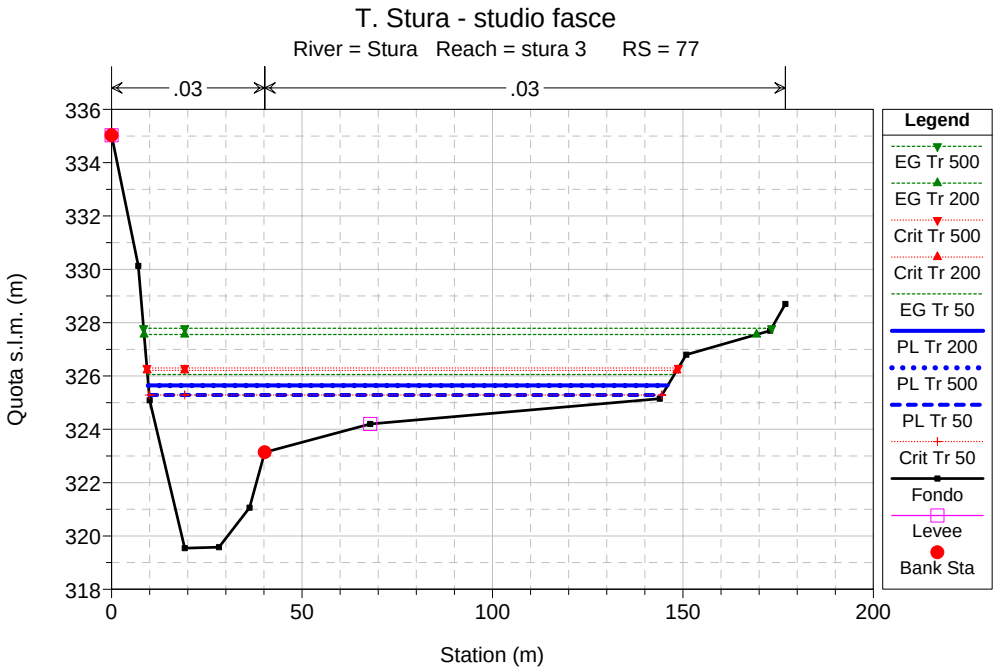

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 80 BR
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

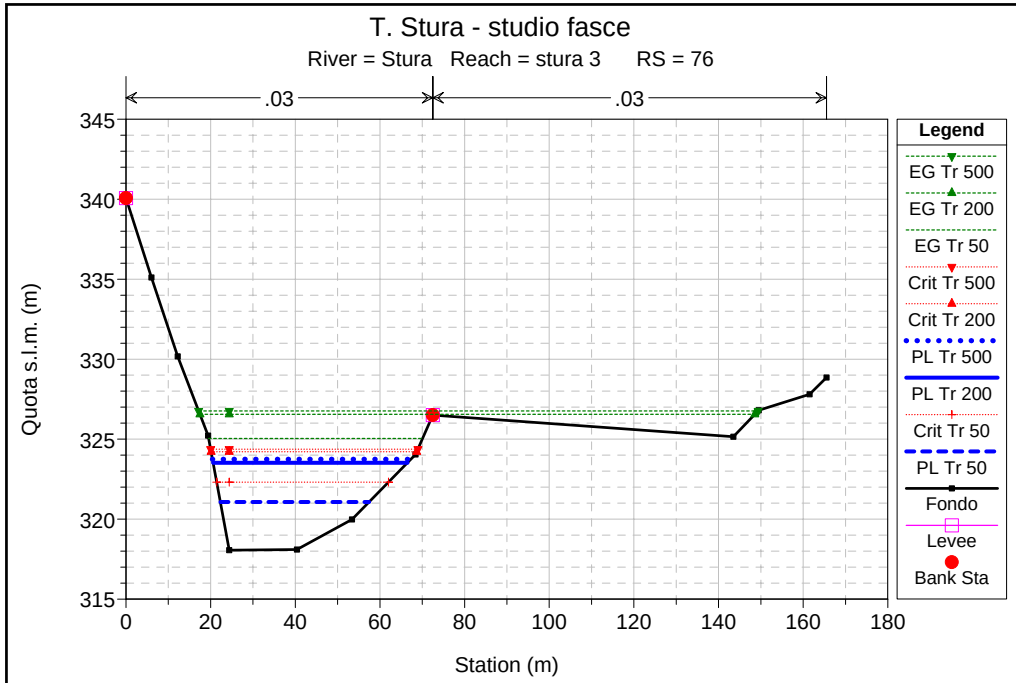

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 80 BR
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 79.7
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 79.5
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 79 BR
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

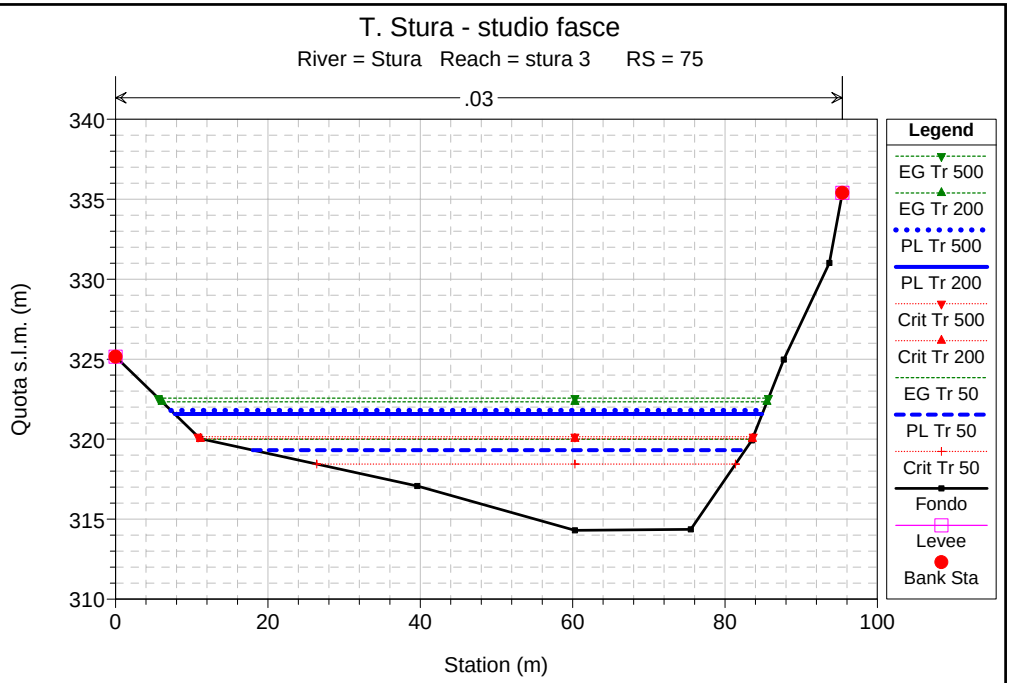

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 79 BR
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

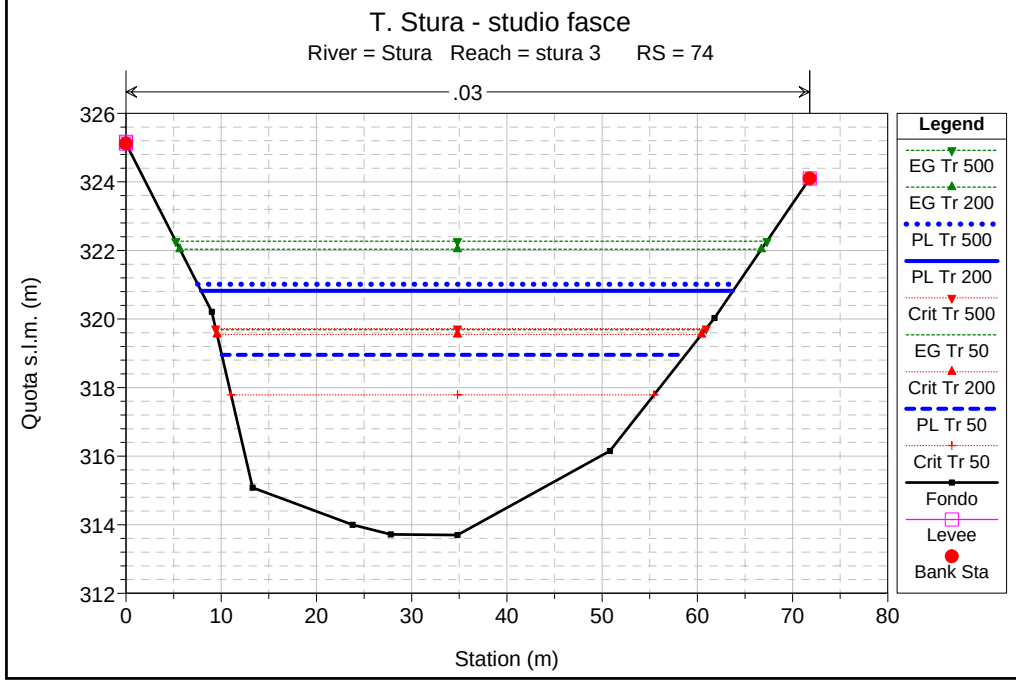

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 78.5
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

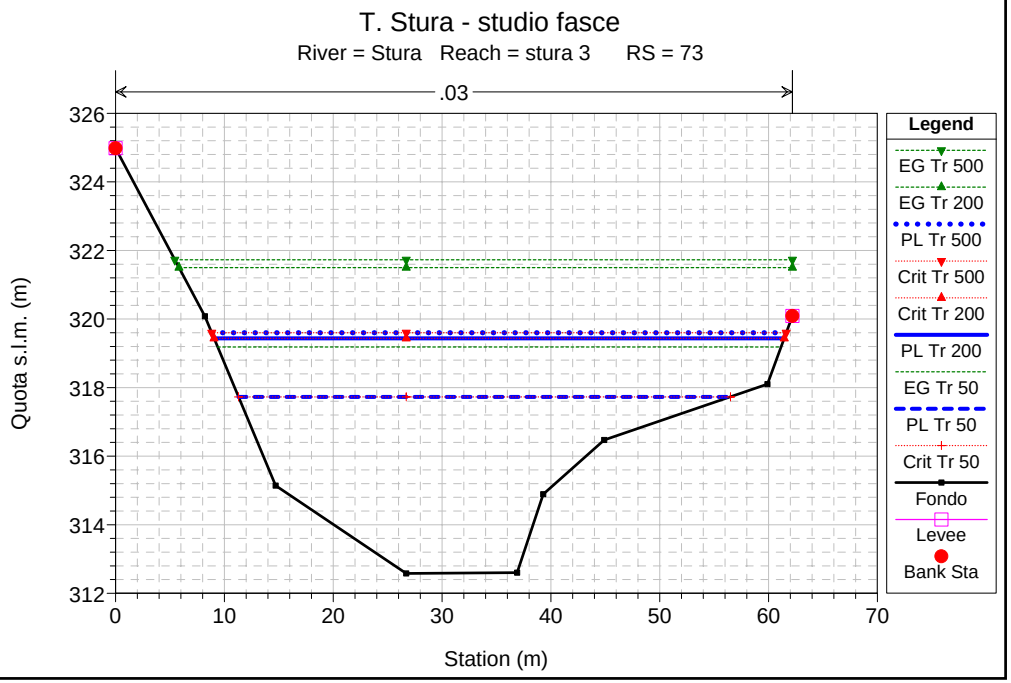

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 78
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
Fondo
Levee
Bank Sta

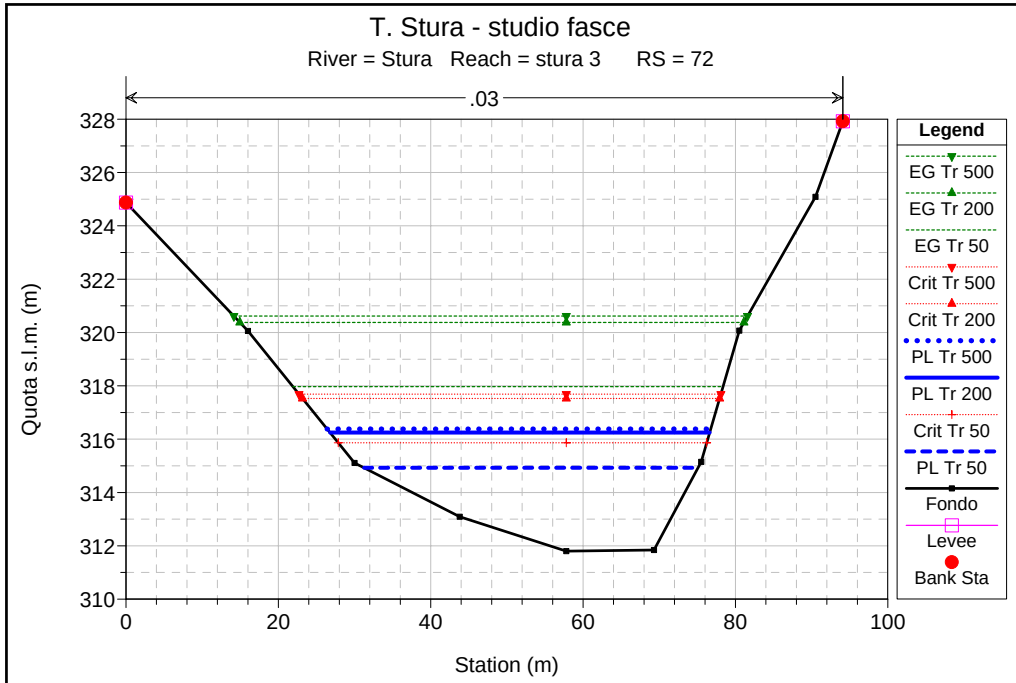

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 77
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 200
PL Tr 500
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

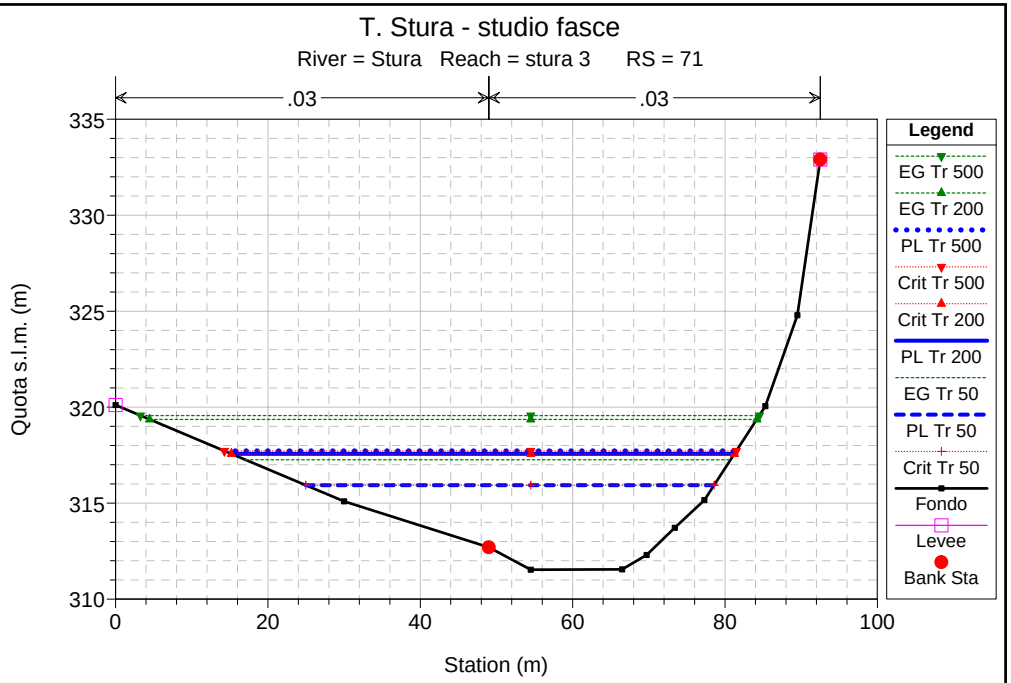

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 76
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

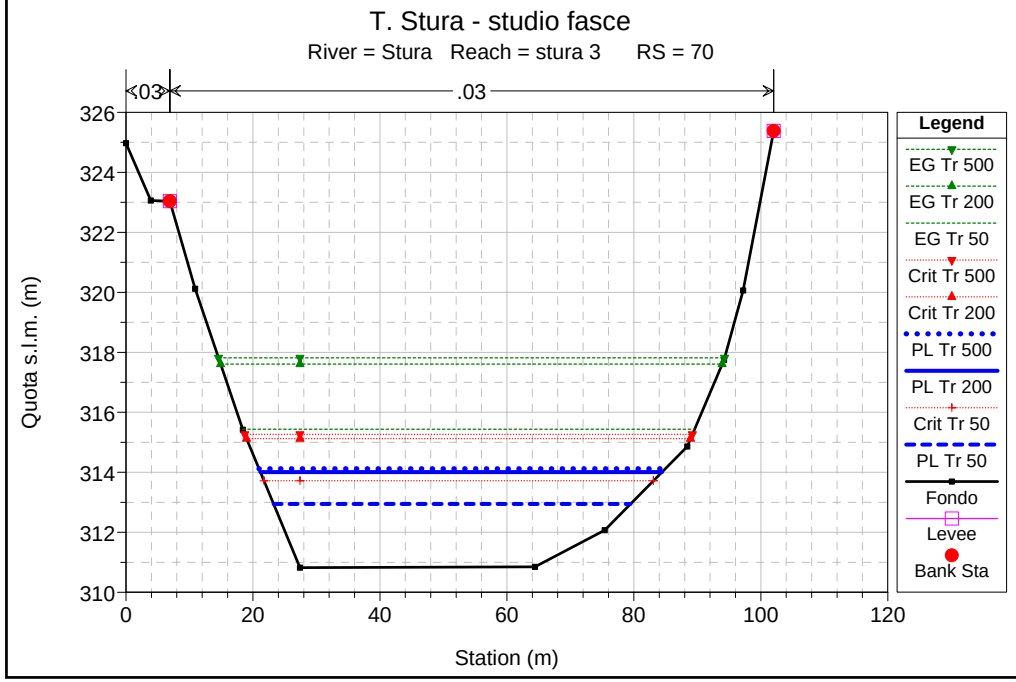

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 75
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

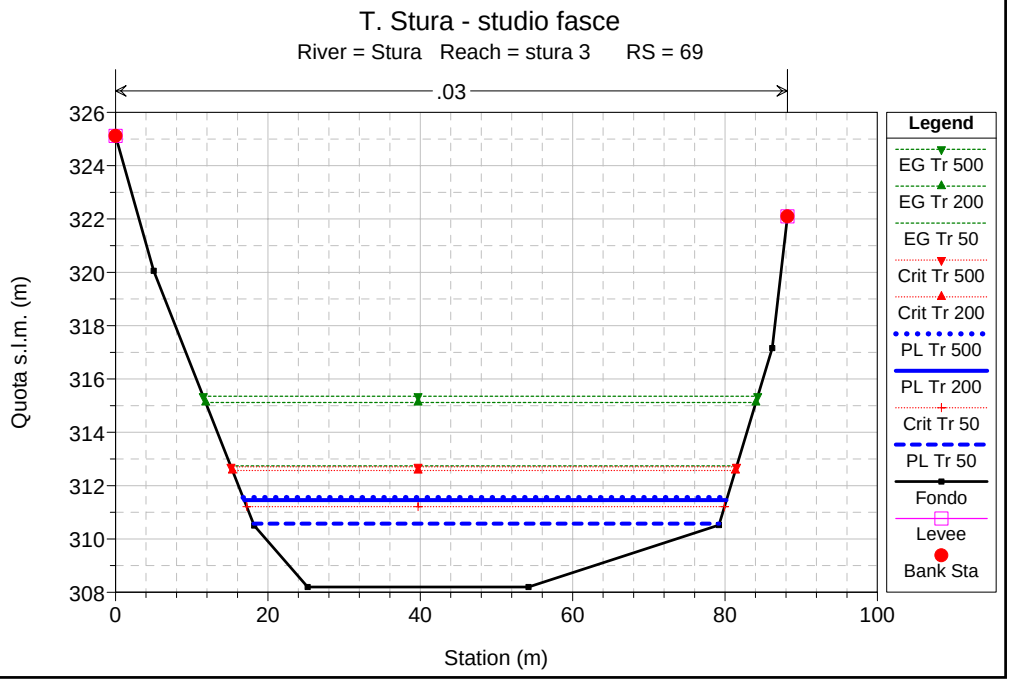

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 74
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

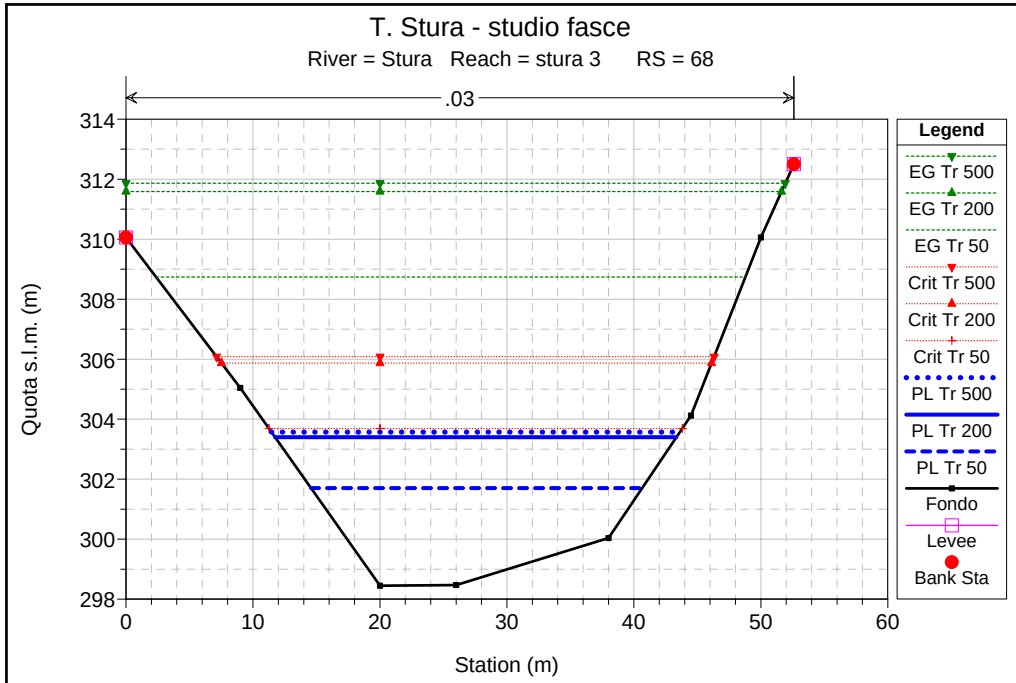

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 73
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

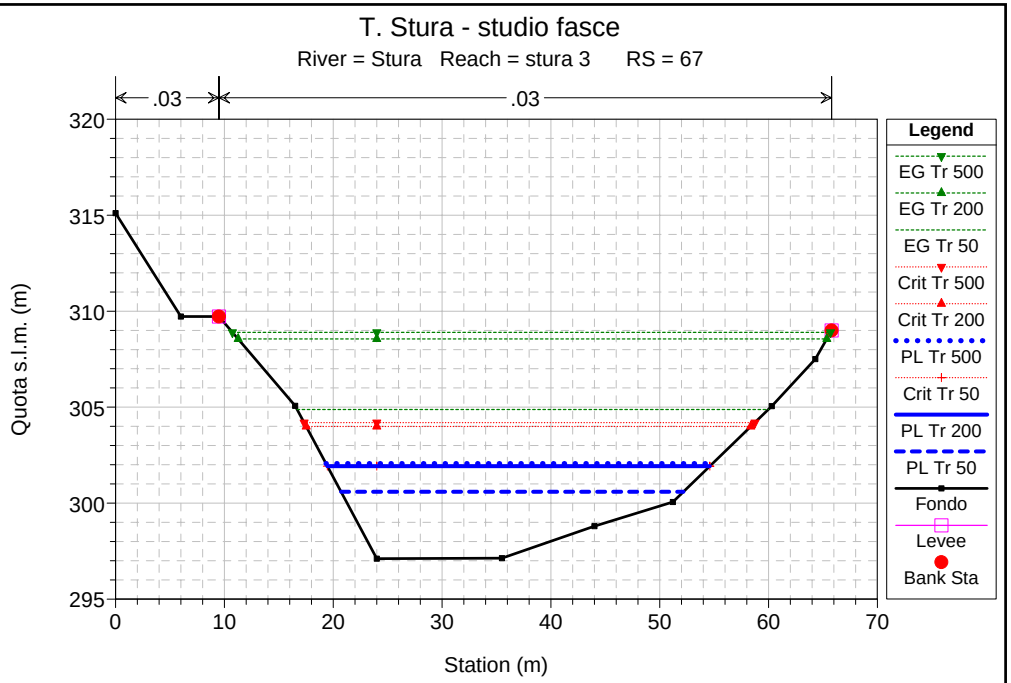

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 72
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

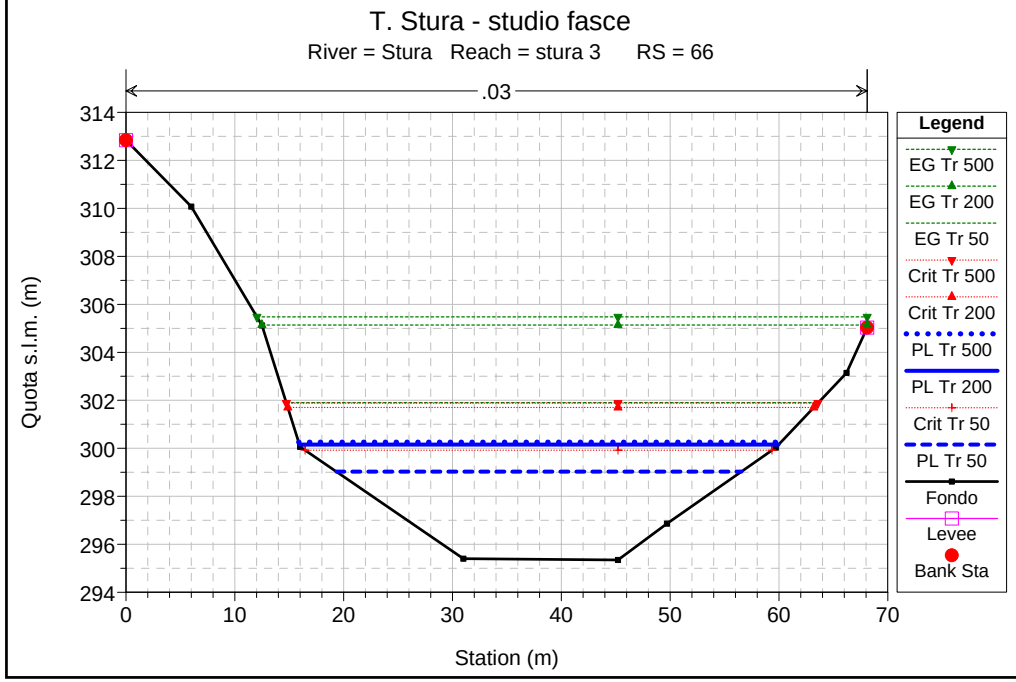

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 71
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

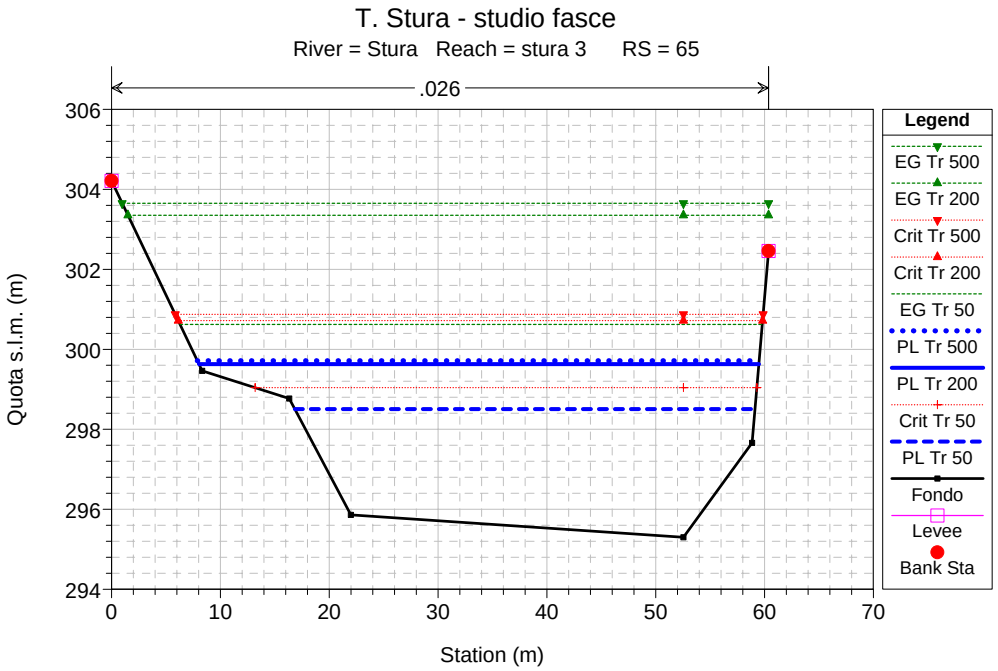

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 70
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

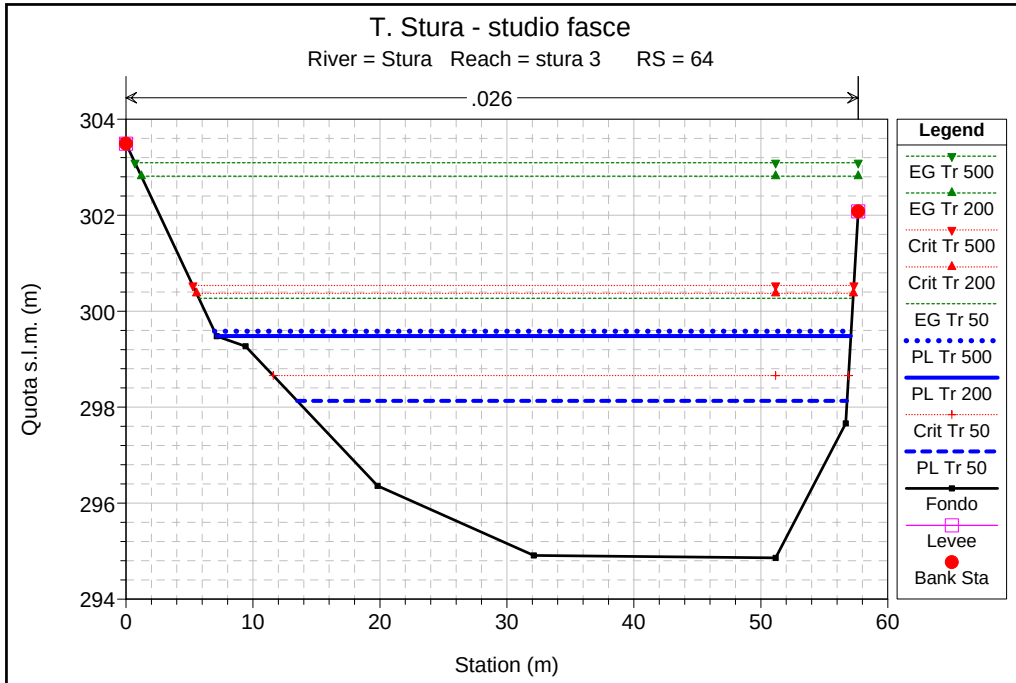

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 69
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

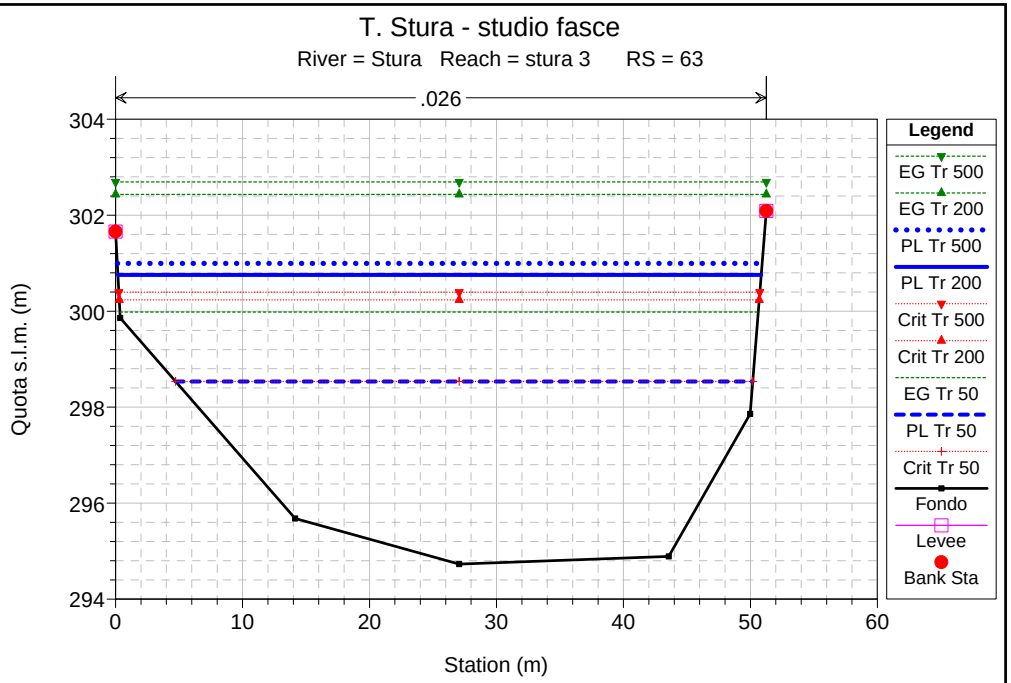

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 68
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

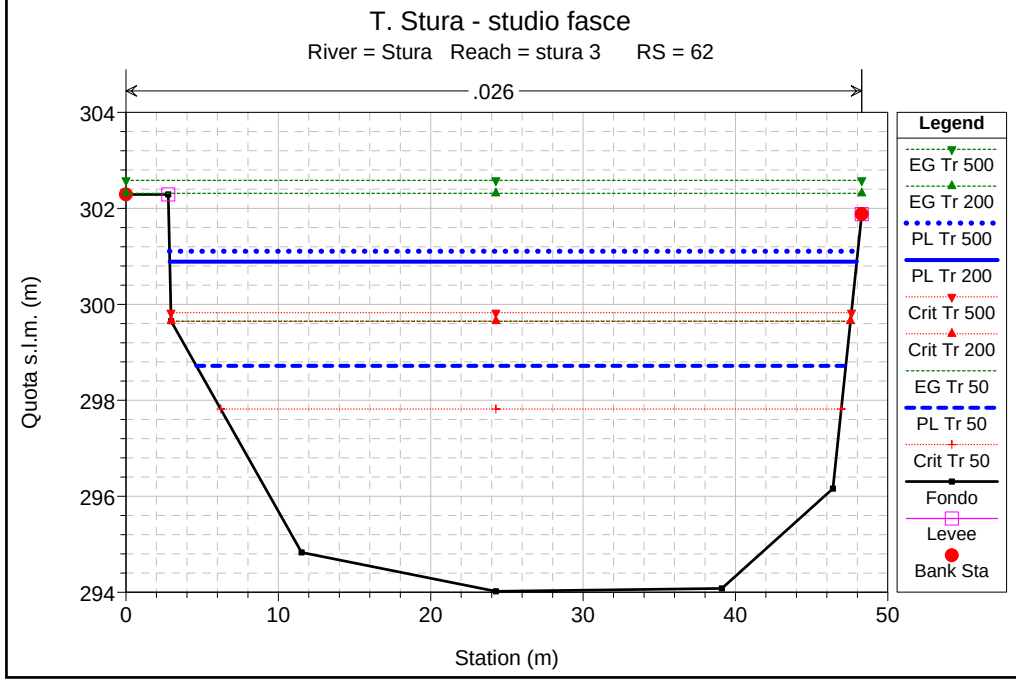

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 67
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

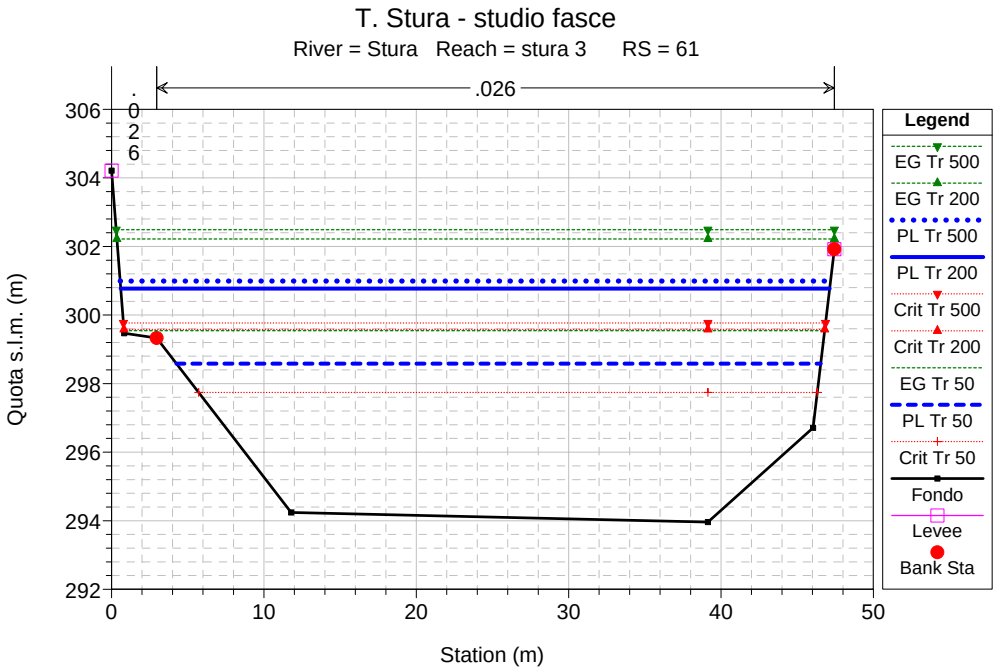

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 66
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

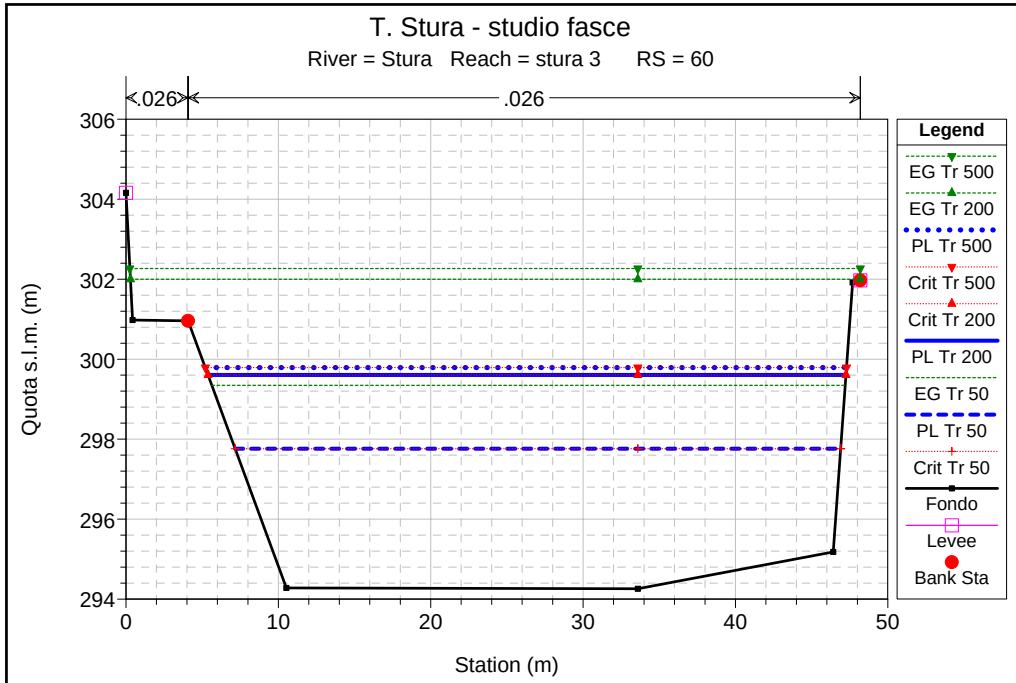

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 65
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

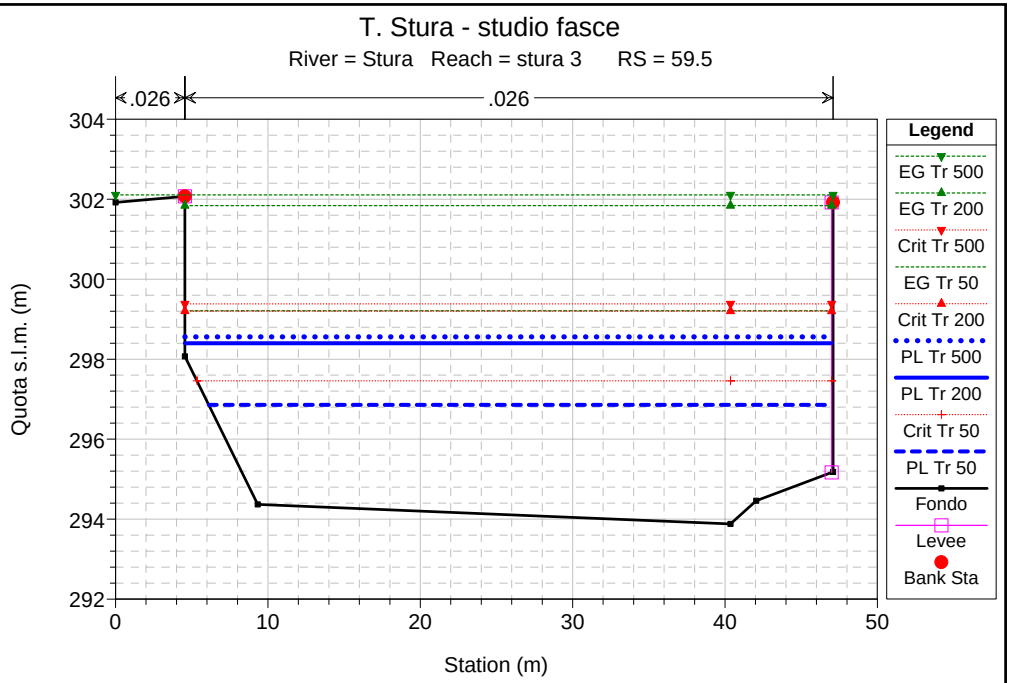

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 64
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

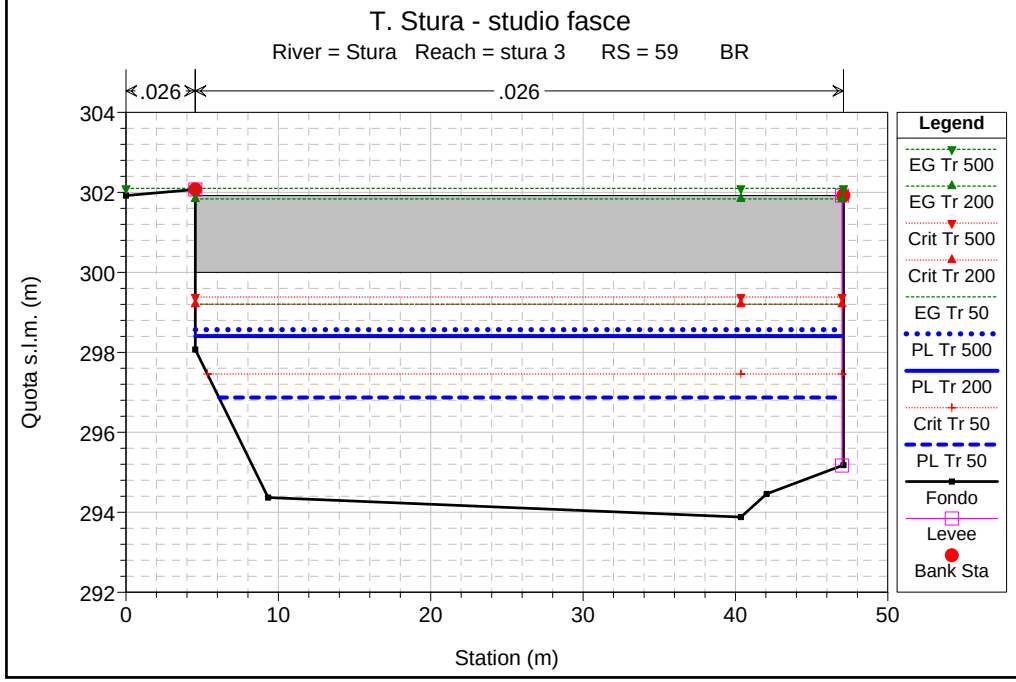

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 63
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

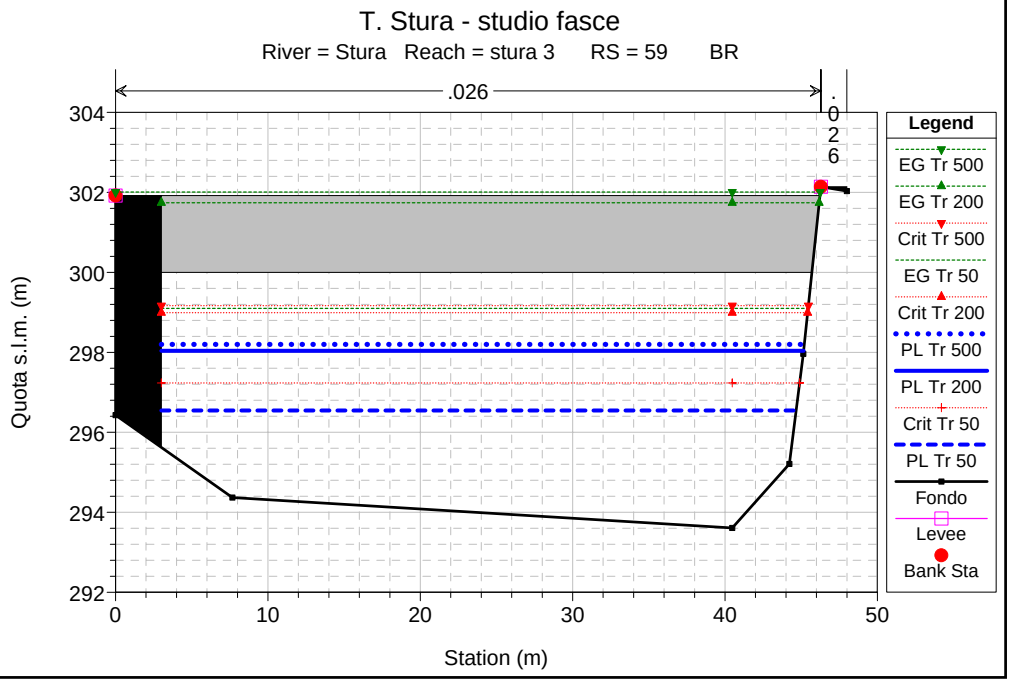

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 62
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

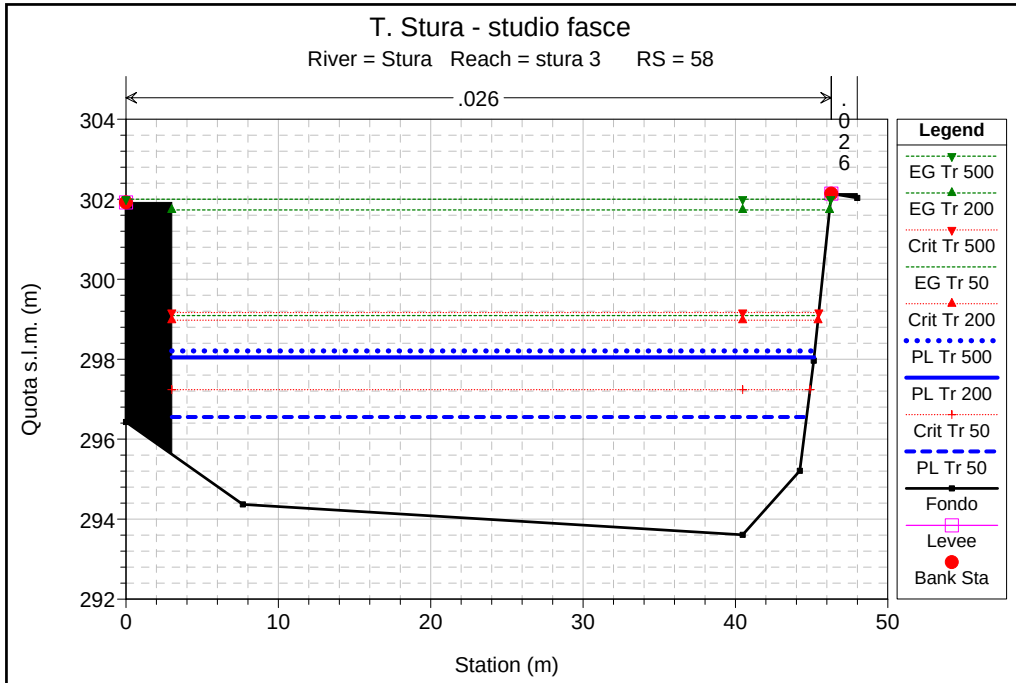

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 61
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

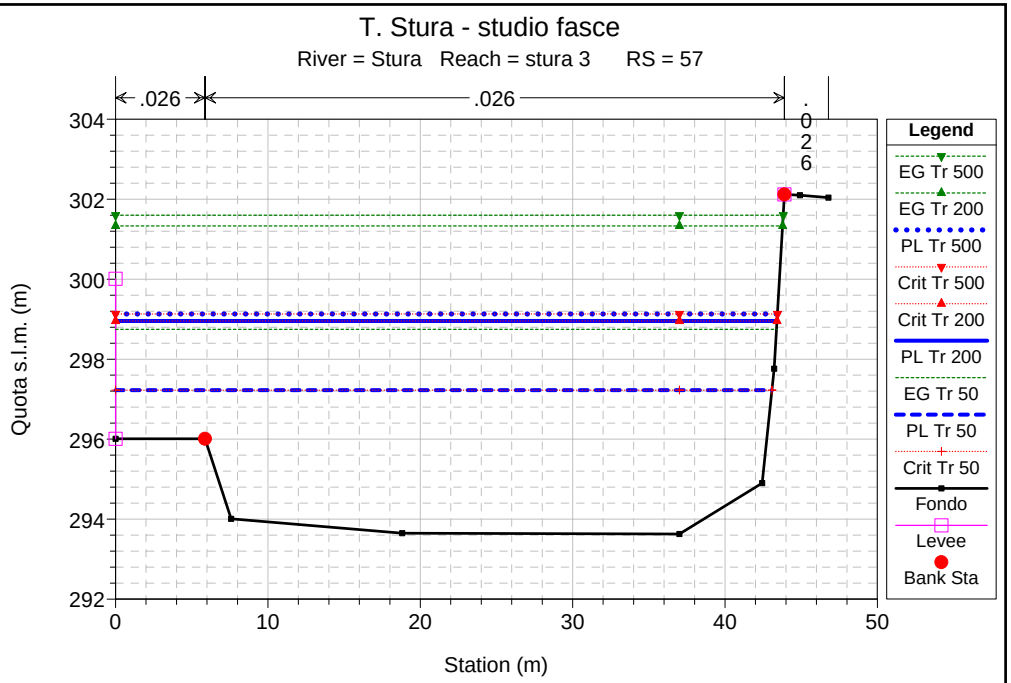

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 60
.026
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

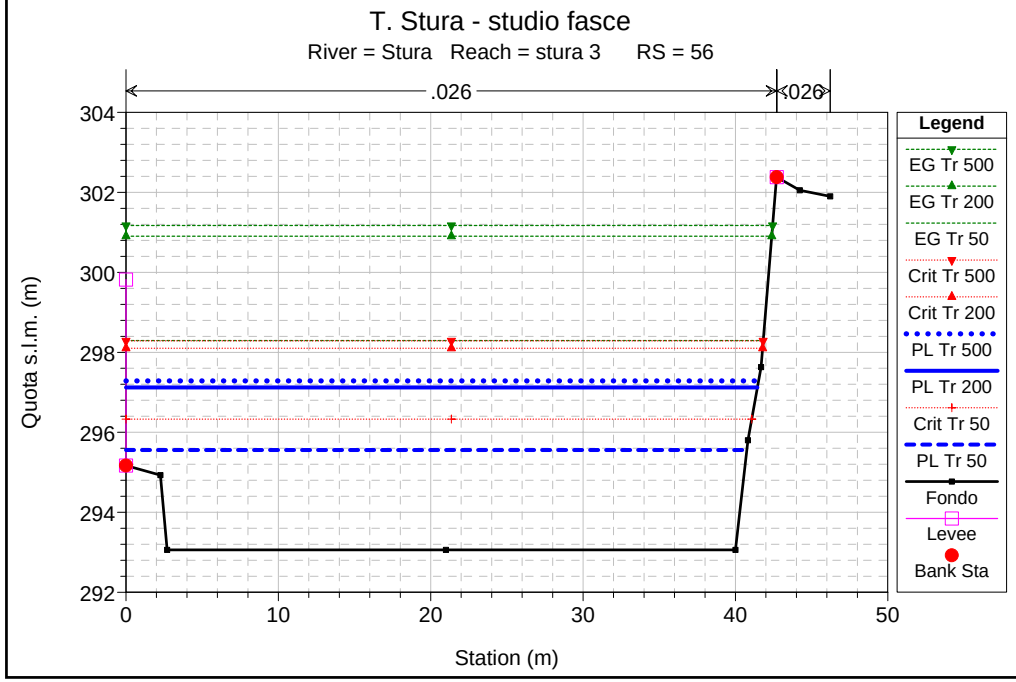

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 59.5
.026
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

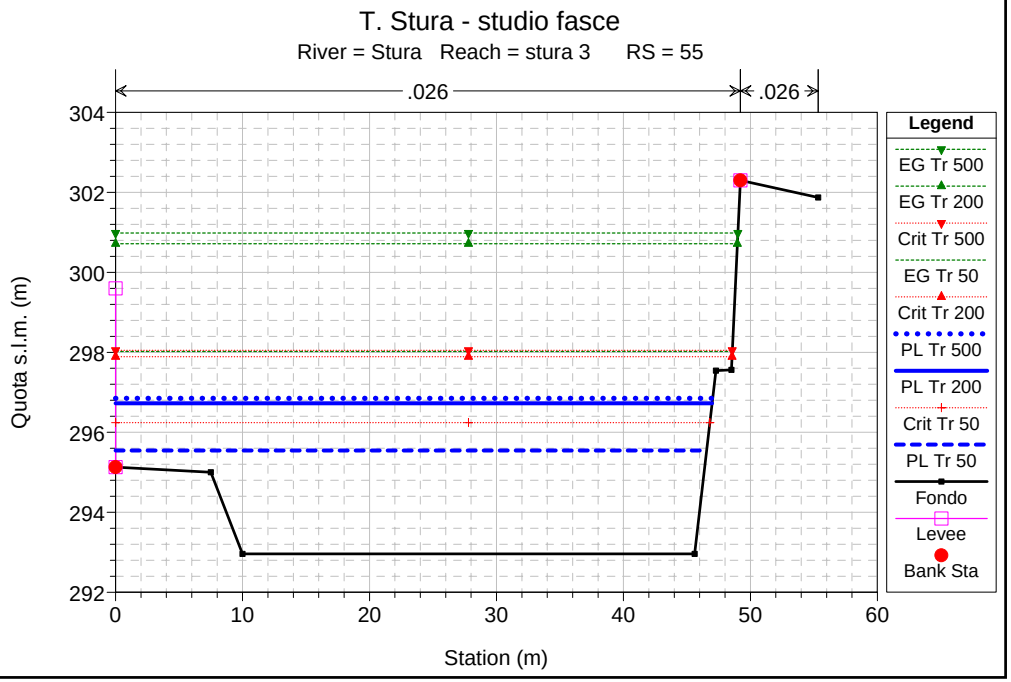

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 59 BR
.026
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

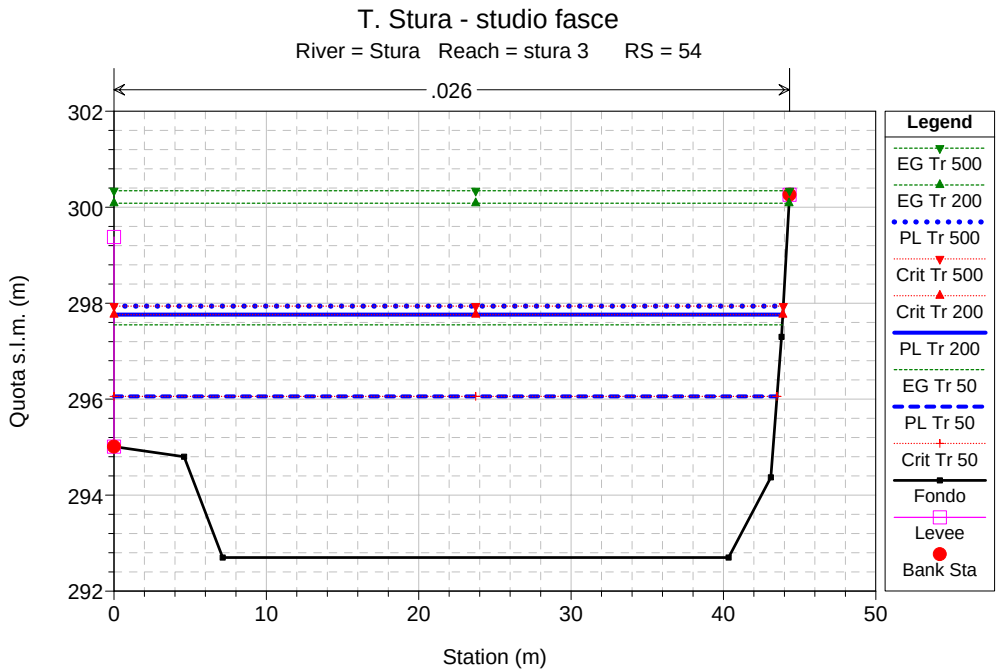

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 59 BR
.026
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

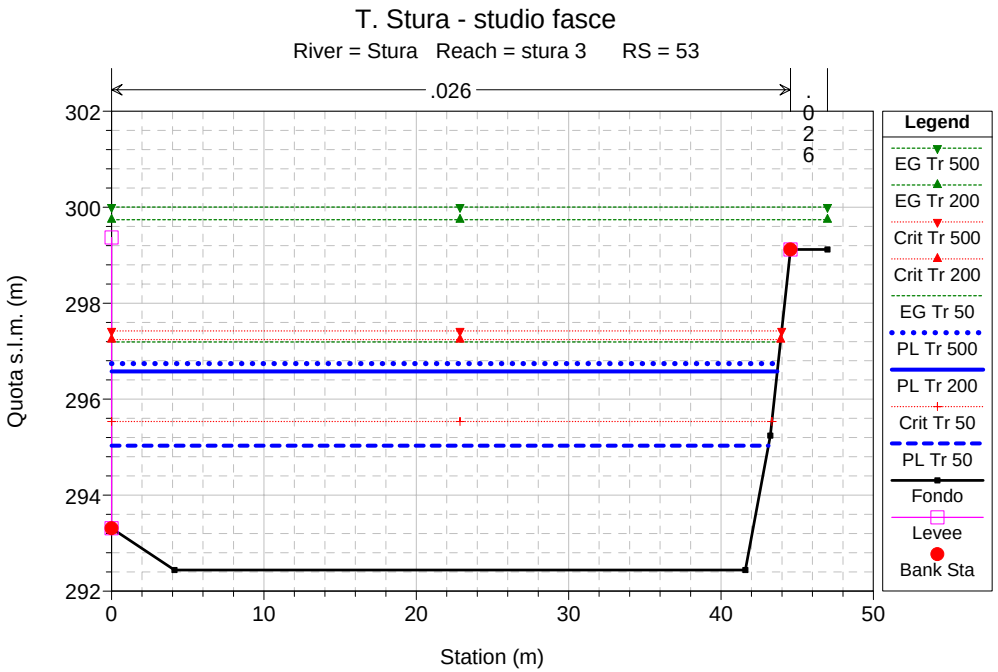

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 58
.026
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

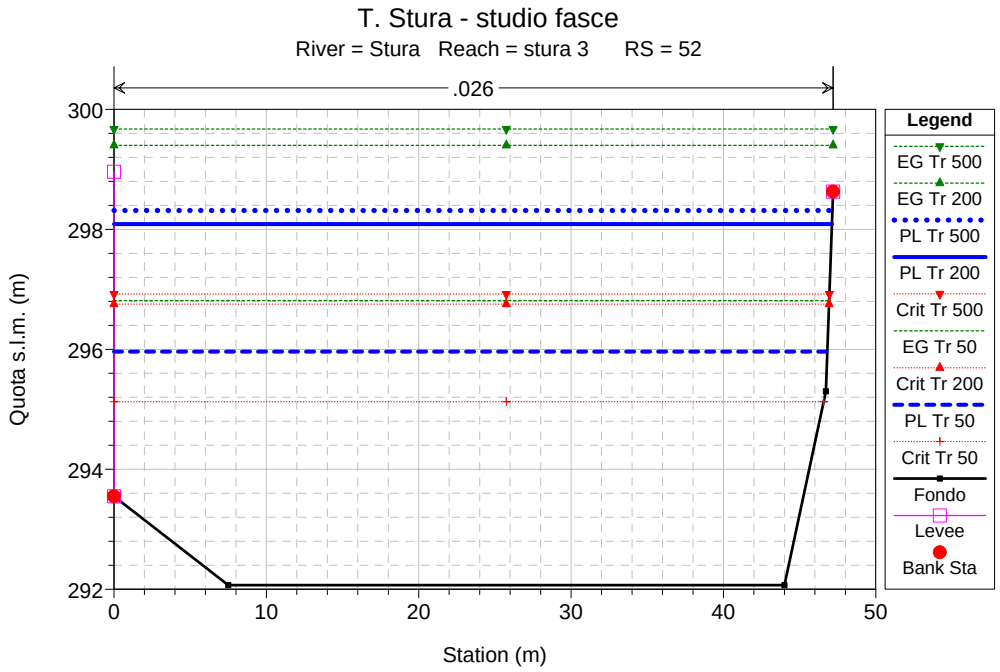

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 57
.026
.026
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

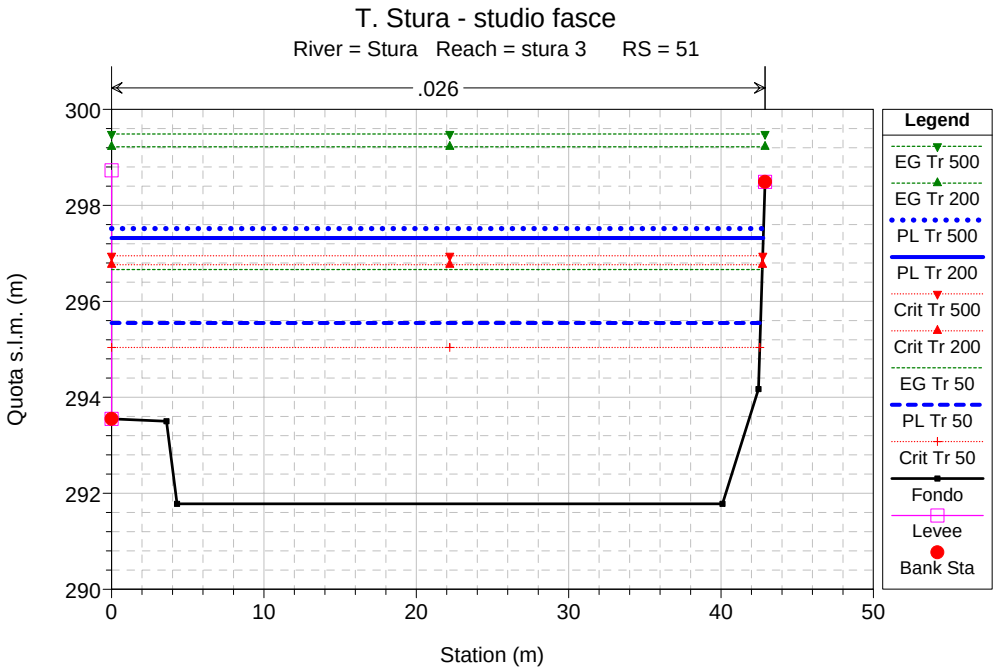

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 56
.026
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

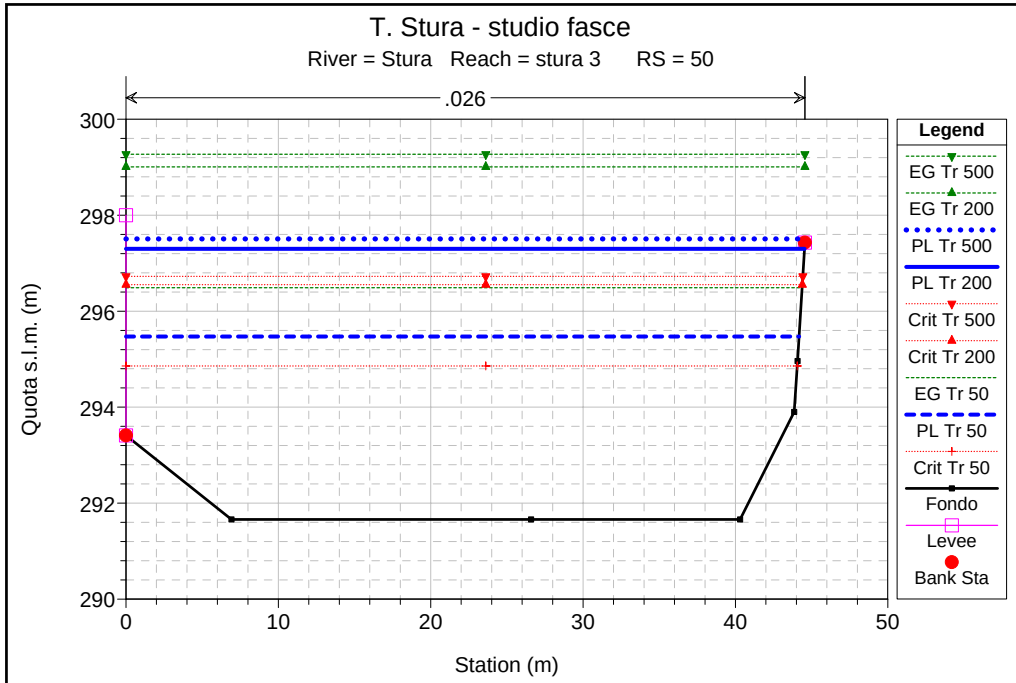

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 55
.026
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

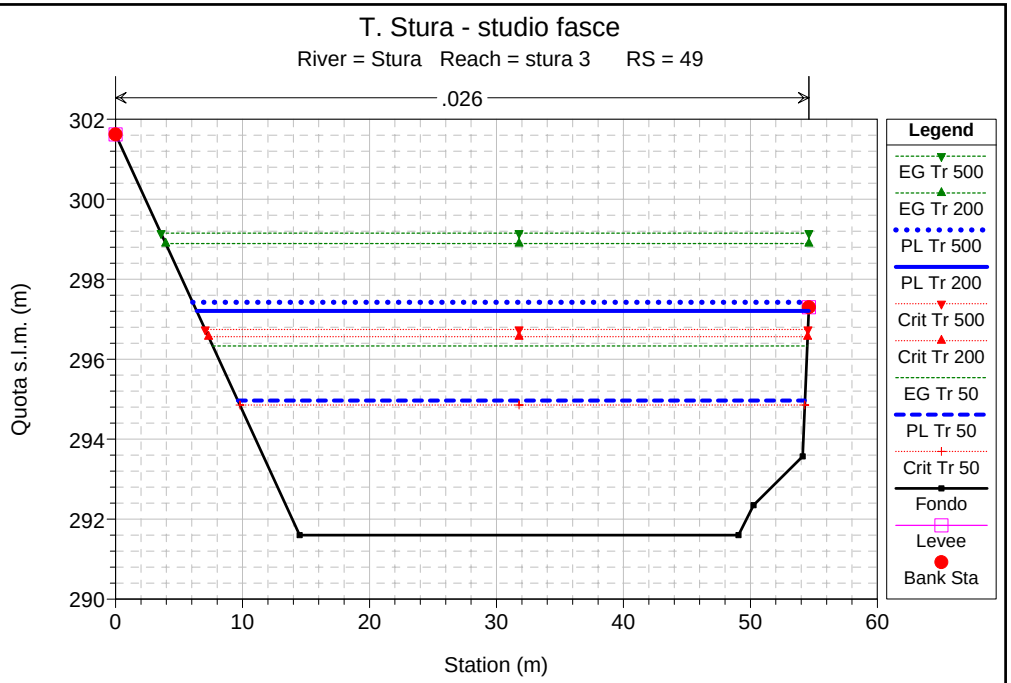

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 54
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

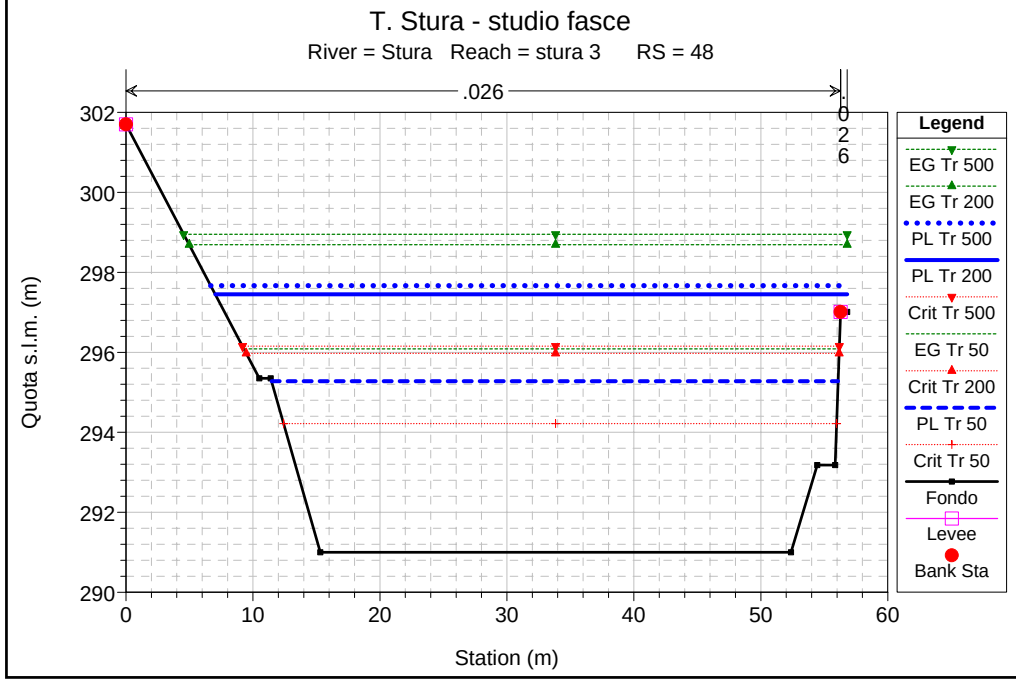

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 53
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

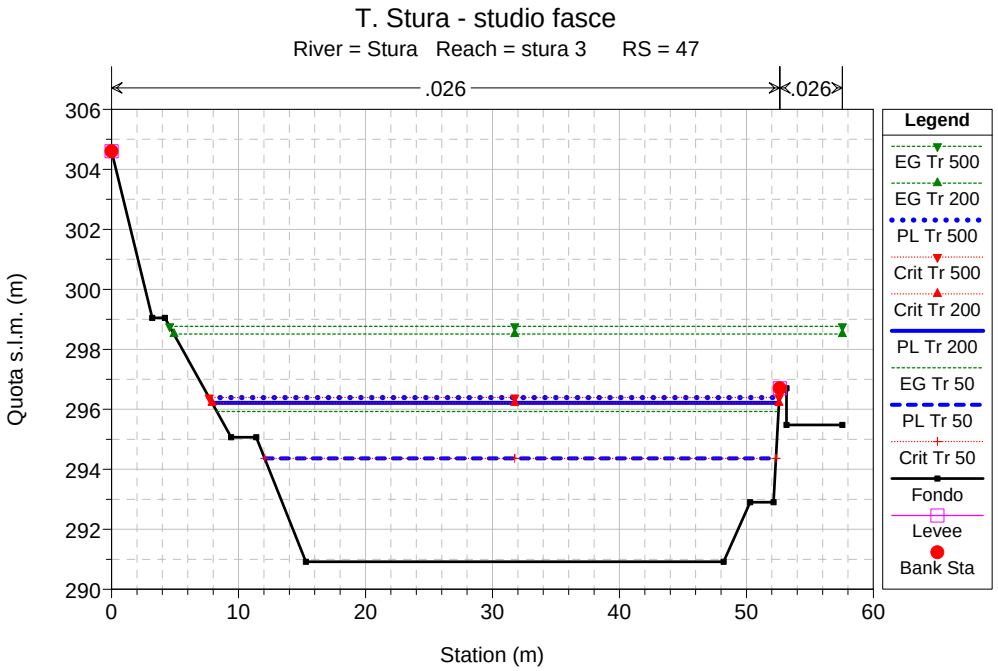

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 52
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

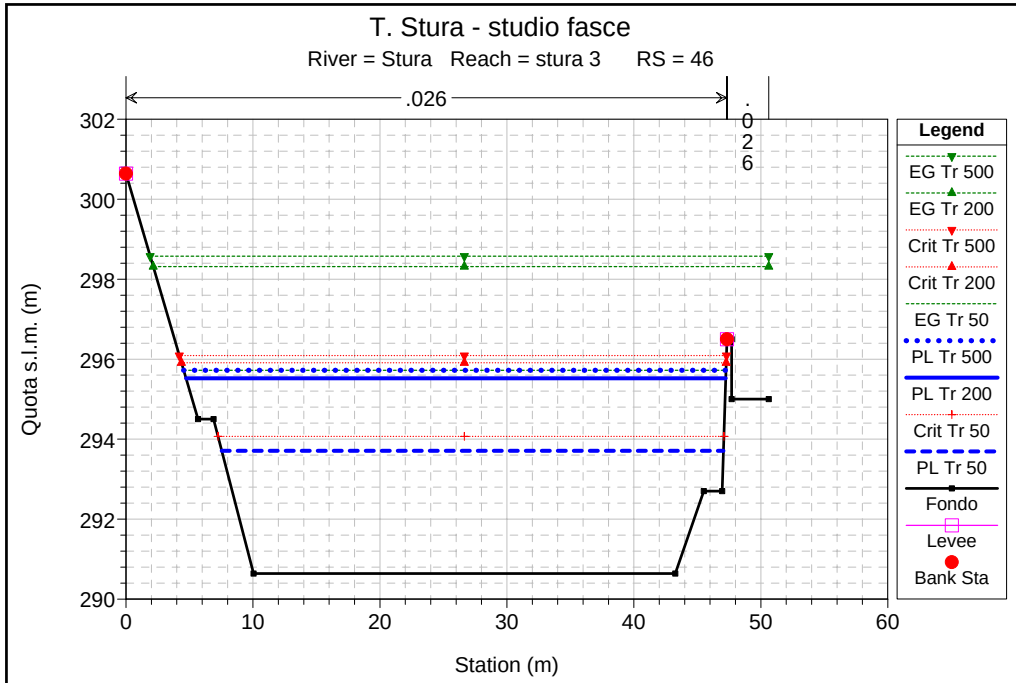

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 51
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

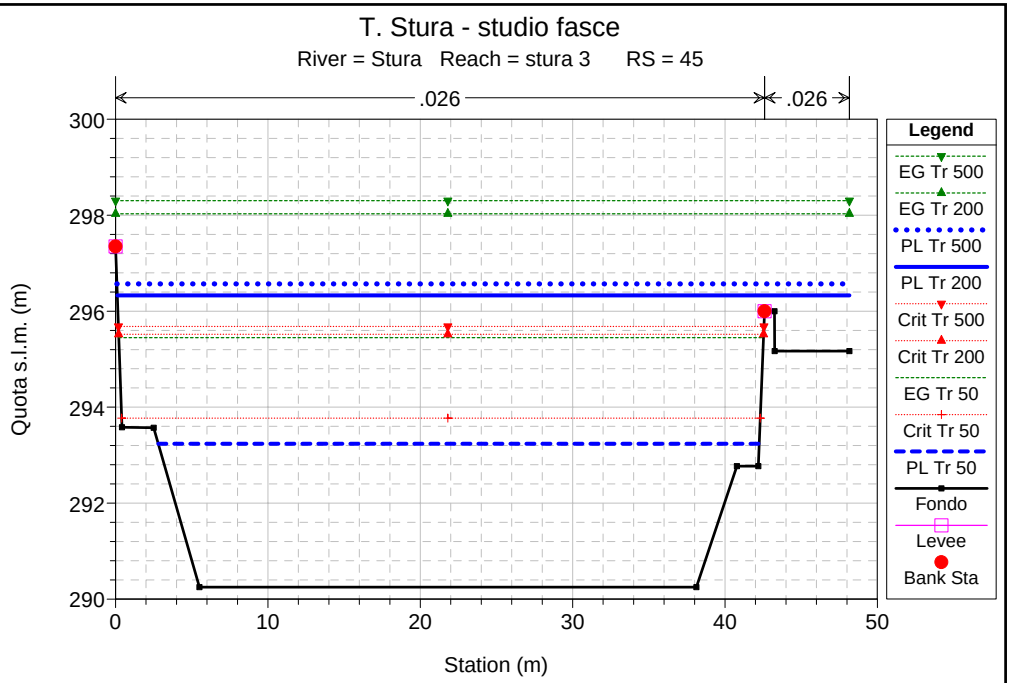

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 50
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

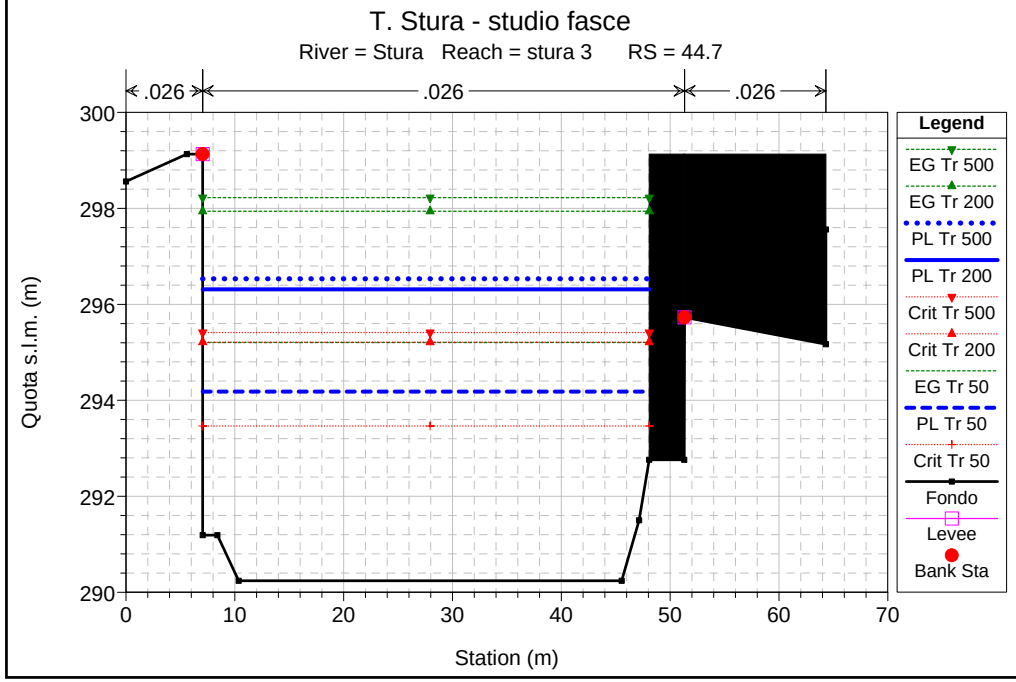

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 49
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

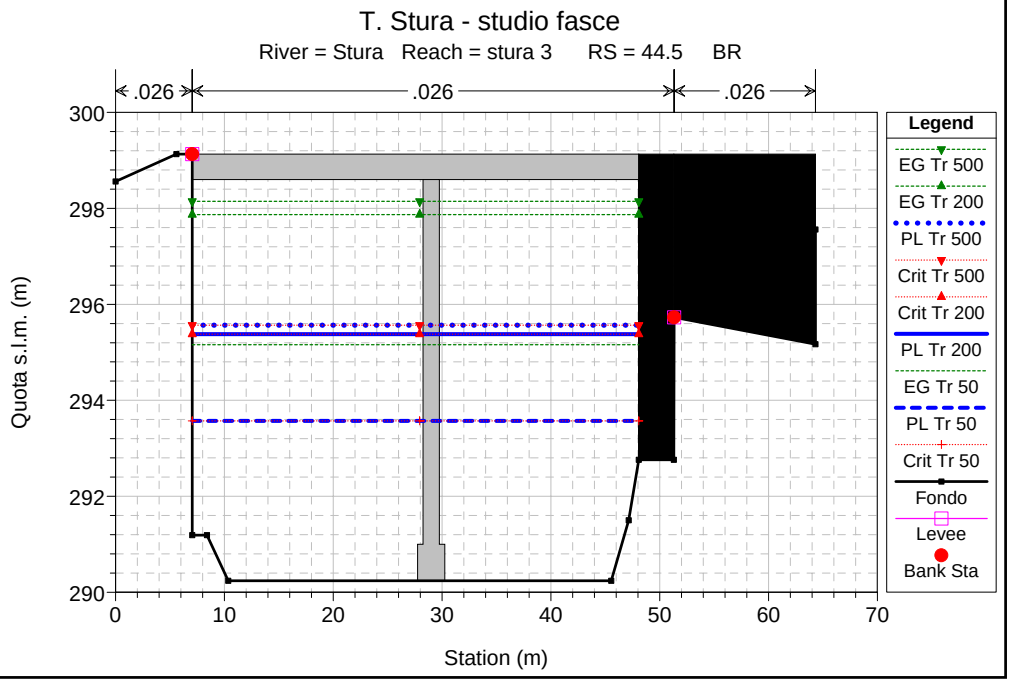

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 48
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

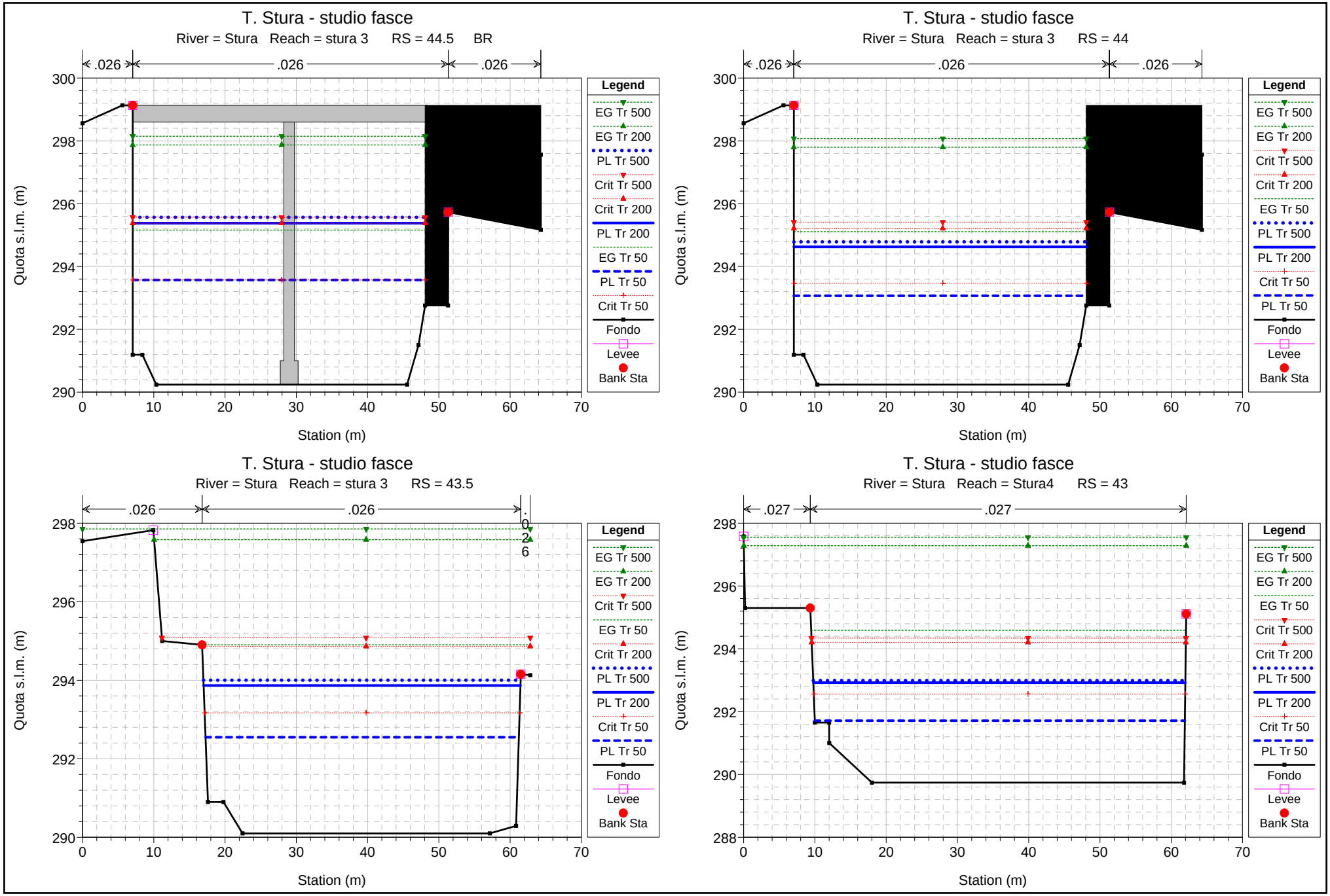

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 47
.026
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

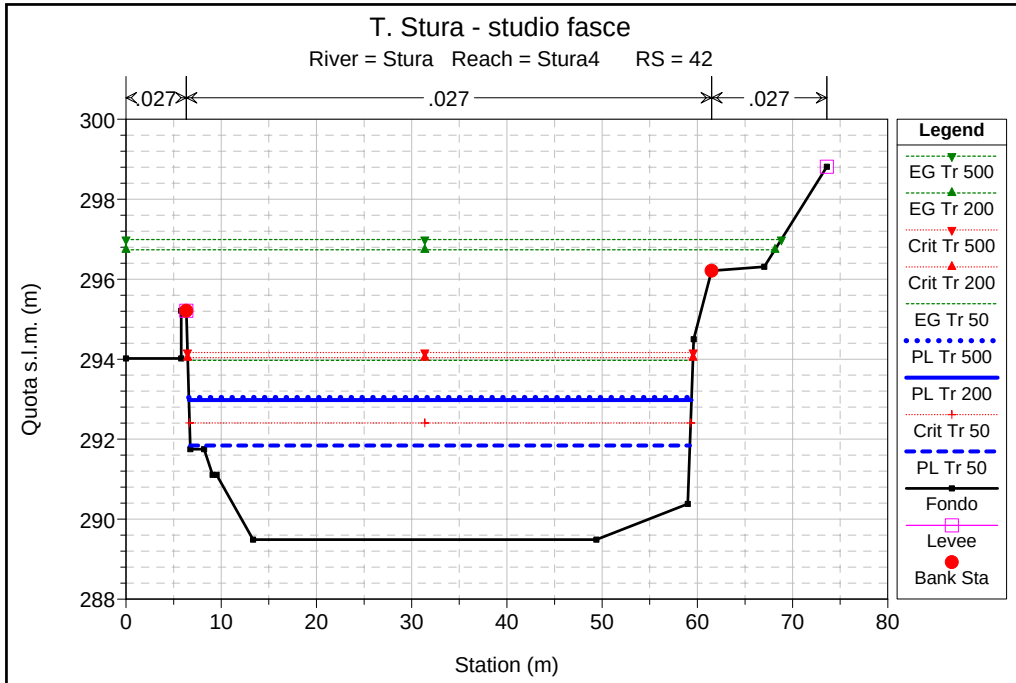

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 46
.026
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

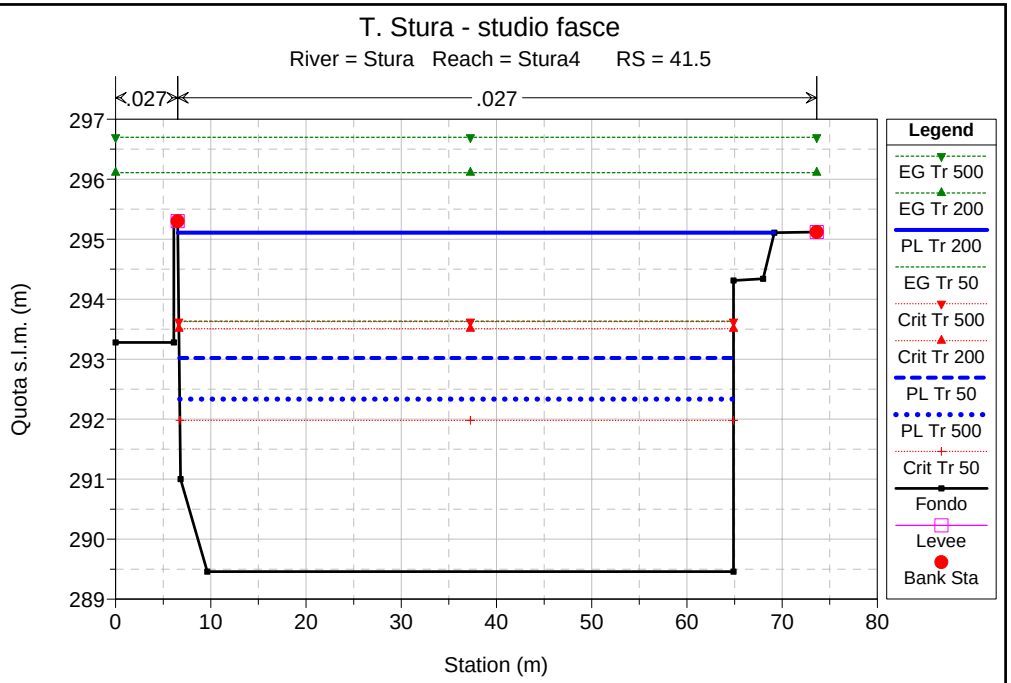

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 45
.026
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

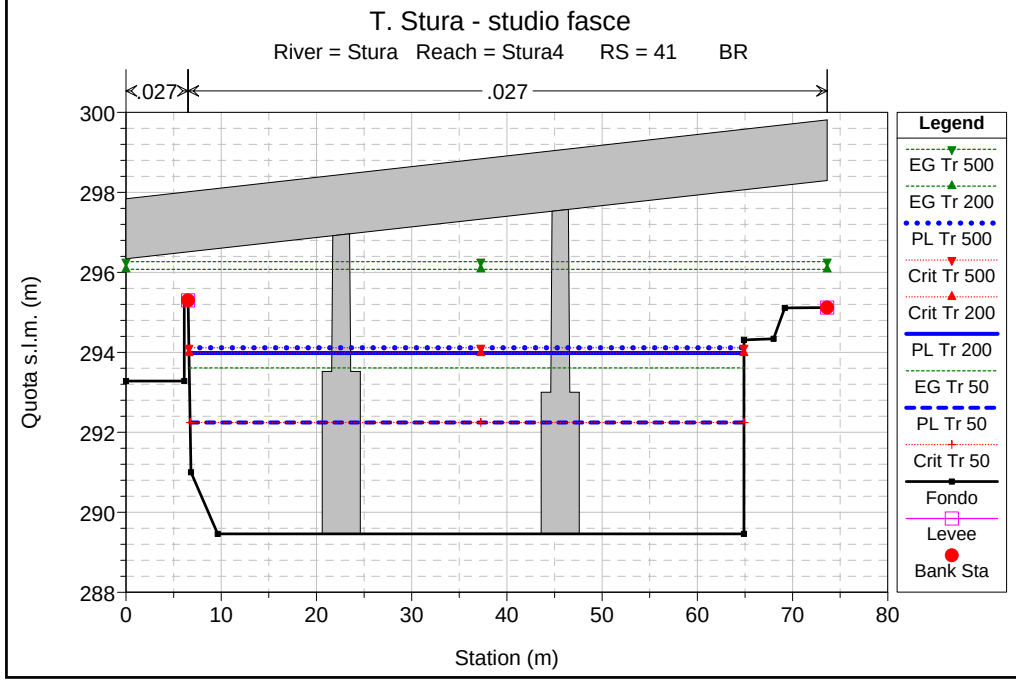

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 44.7
.026
.026
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

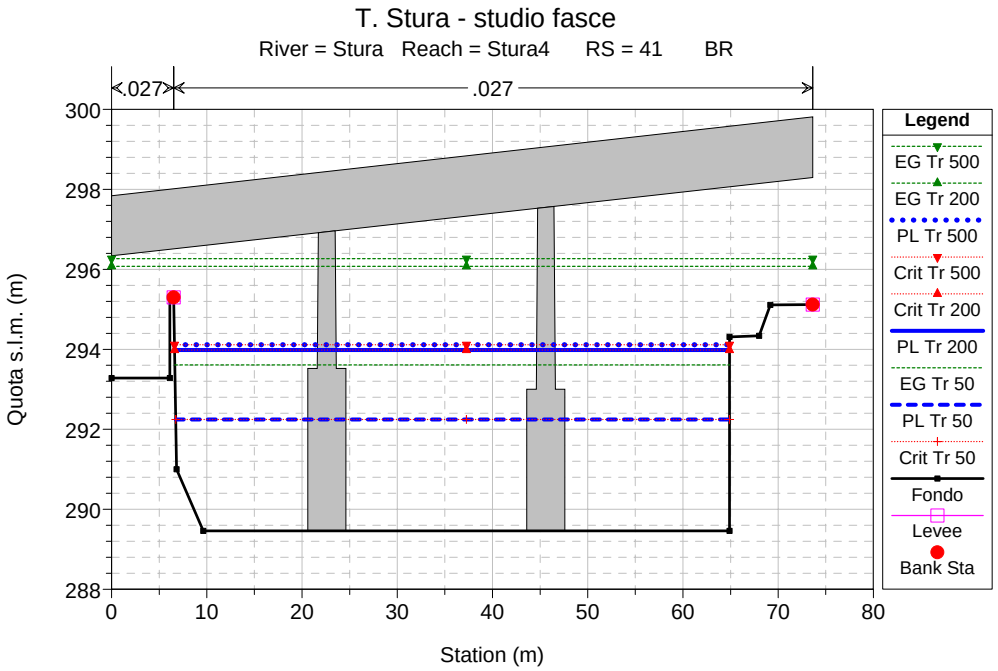

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 44.5 BR
.026
.026
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

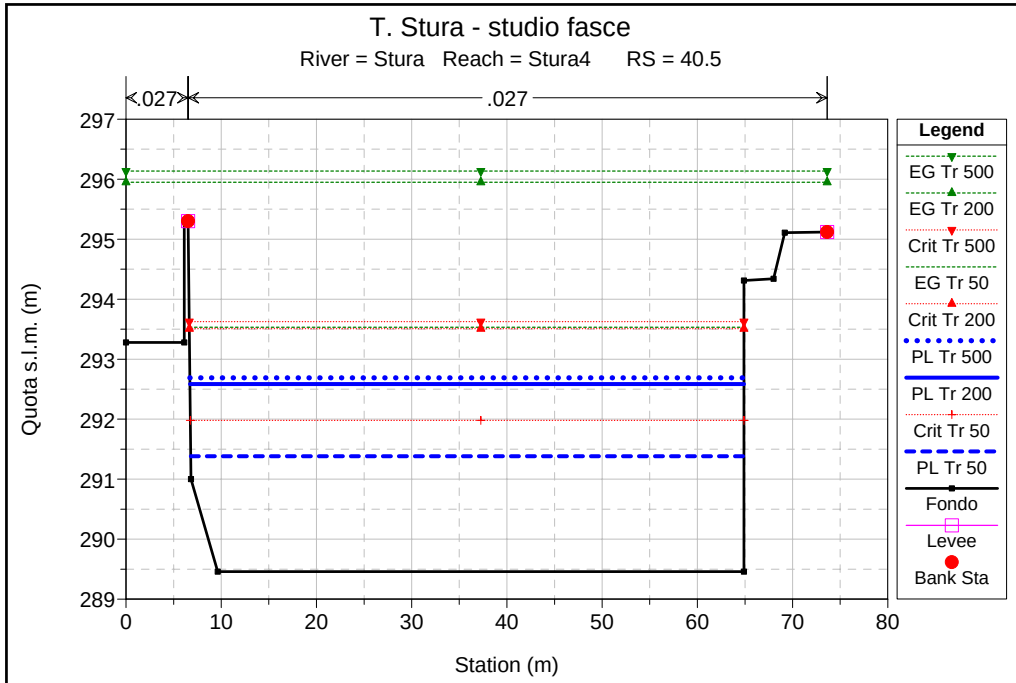

T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 44.5 BR
.026
.026
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 44
.026
.026
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = stura 3 RS = 43.5
.026
.026
.026
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 43
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

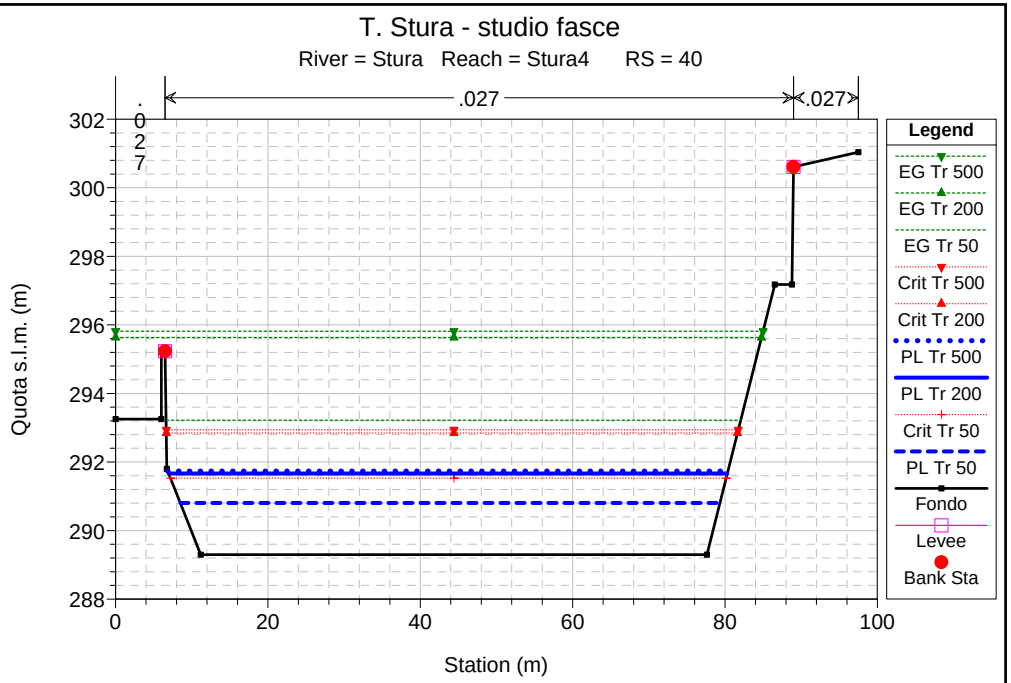

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 42
.027
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

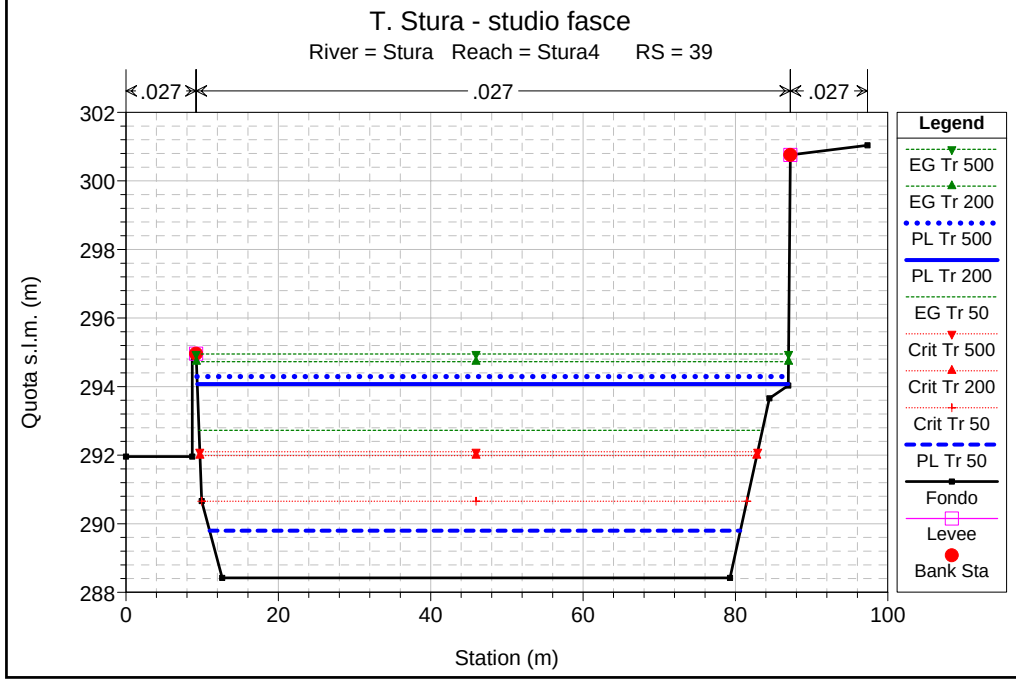

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 41.5
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
PL Tr 500
Crit Tr 50
Fondo
Levee
Bank Sta

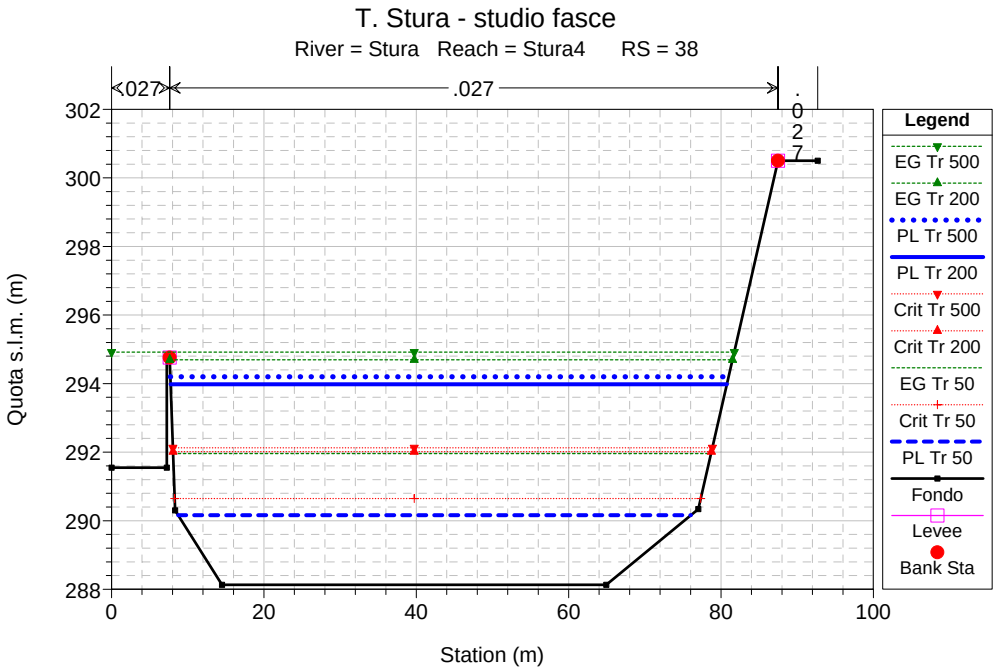

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 41 BR
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

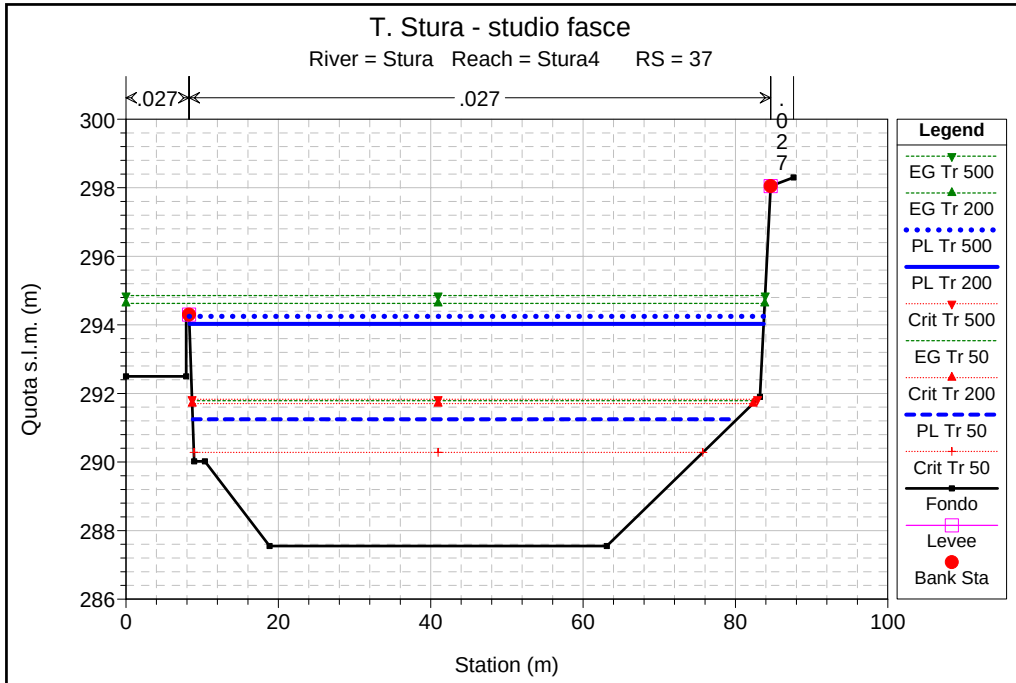

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 41 BR
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

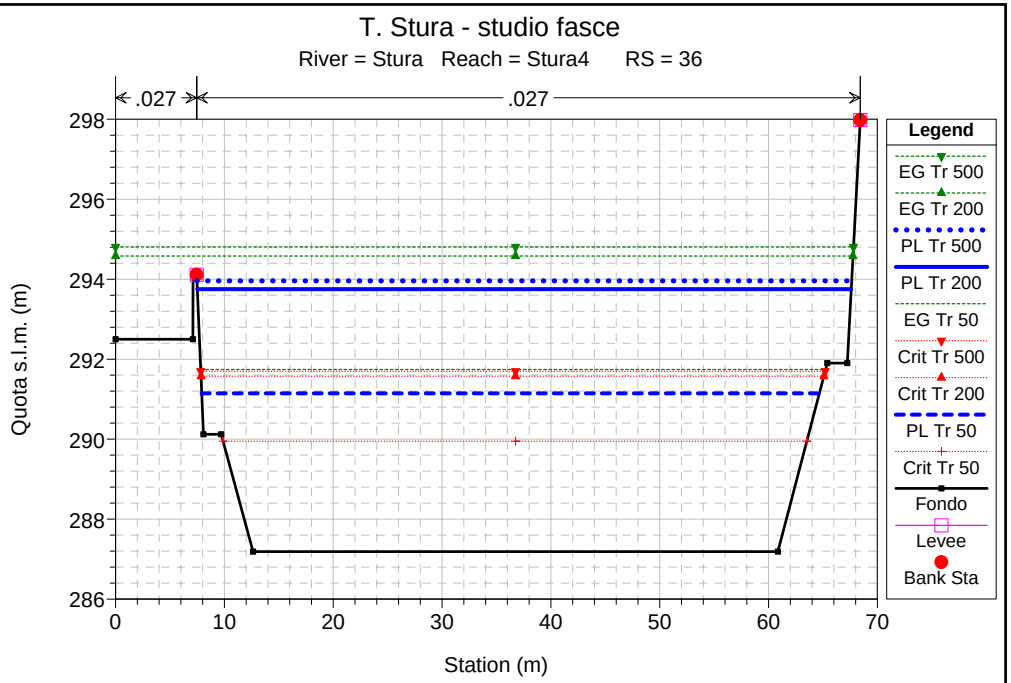

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 40.5
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

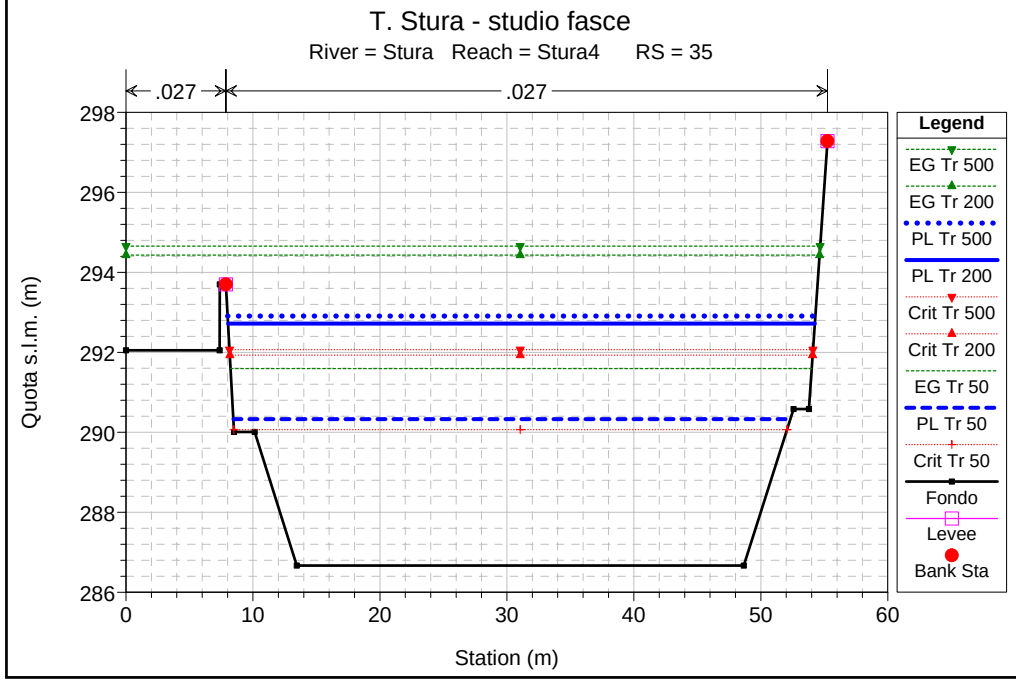

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 40
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

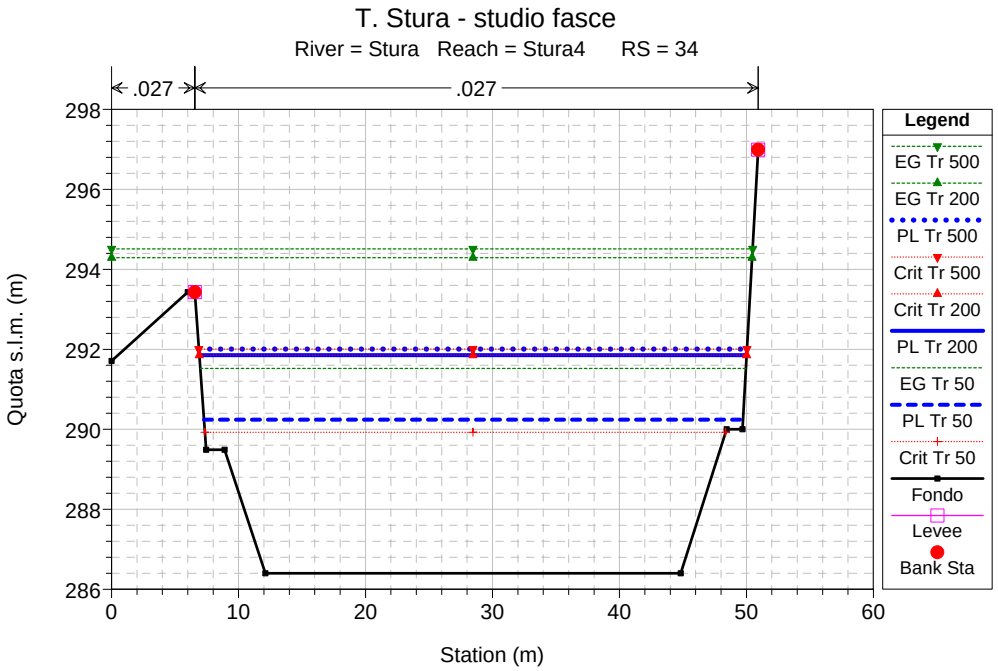

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 39
.027
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

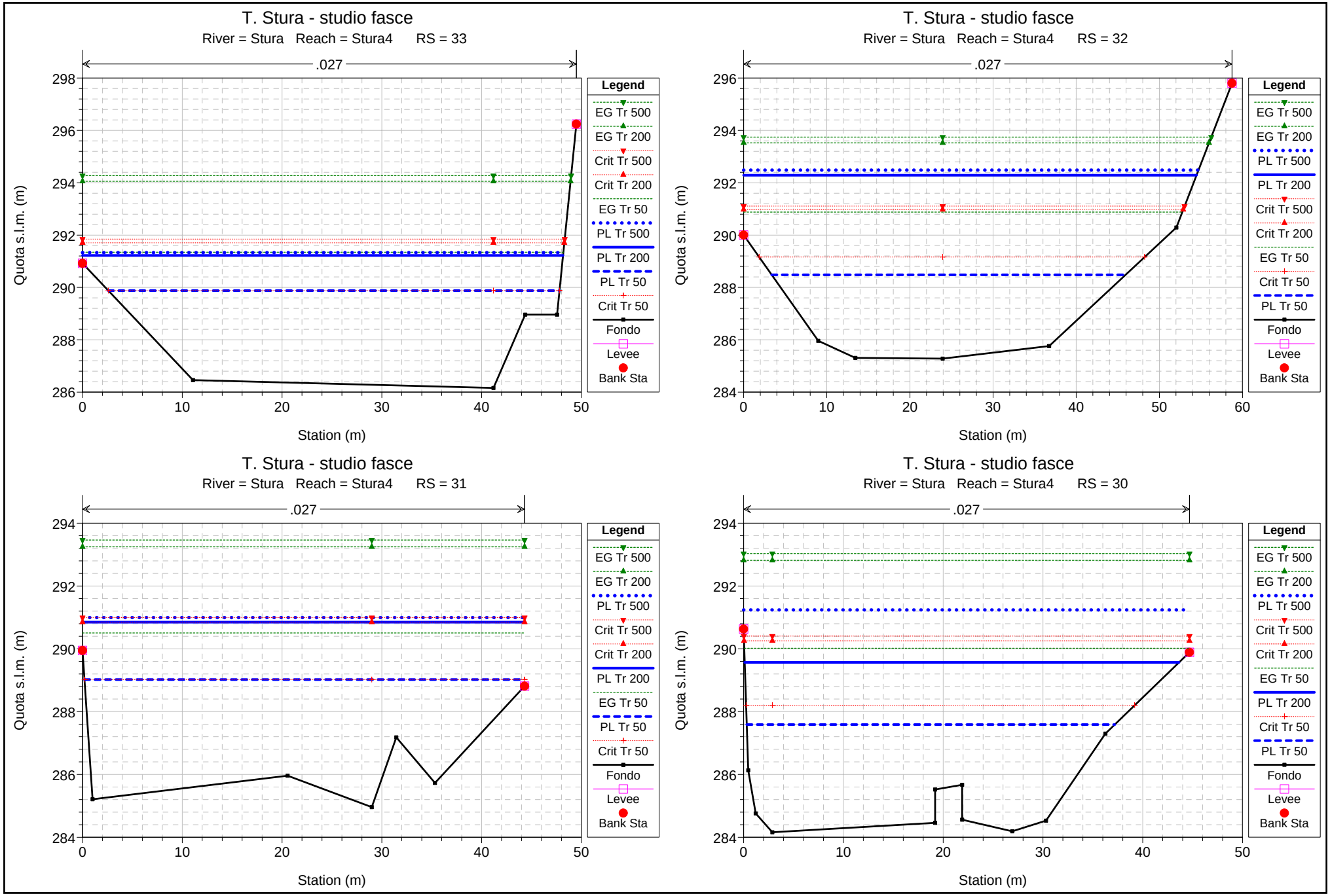

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 38
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

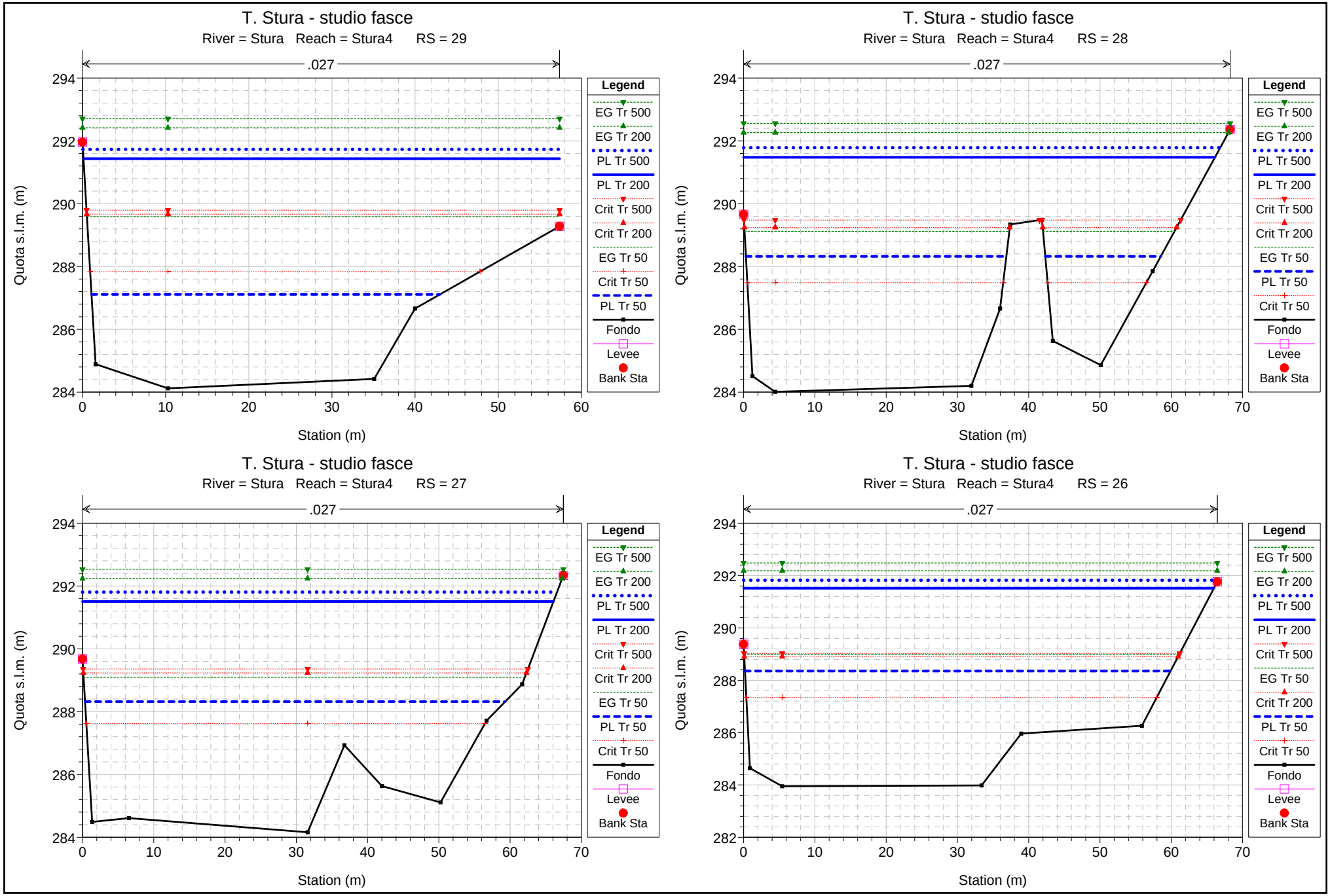

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 37
.027
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

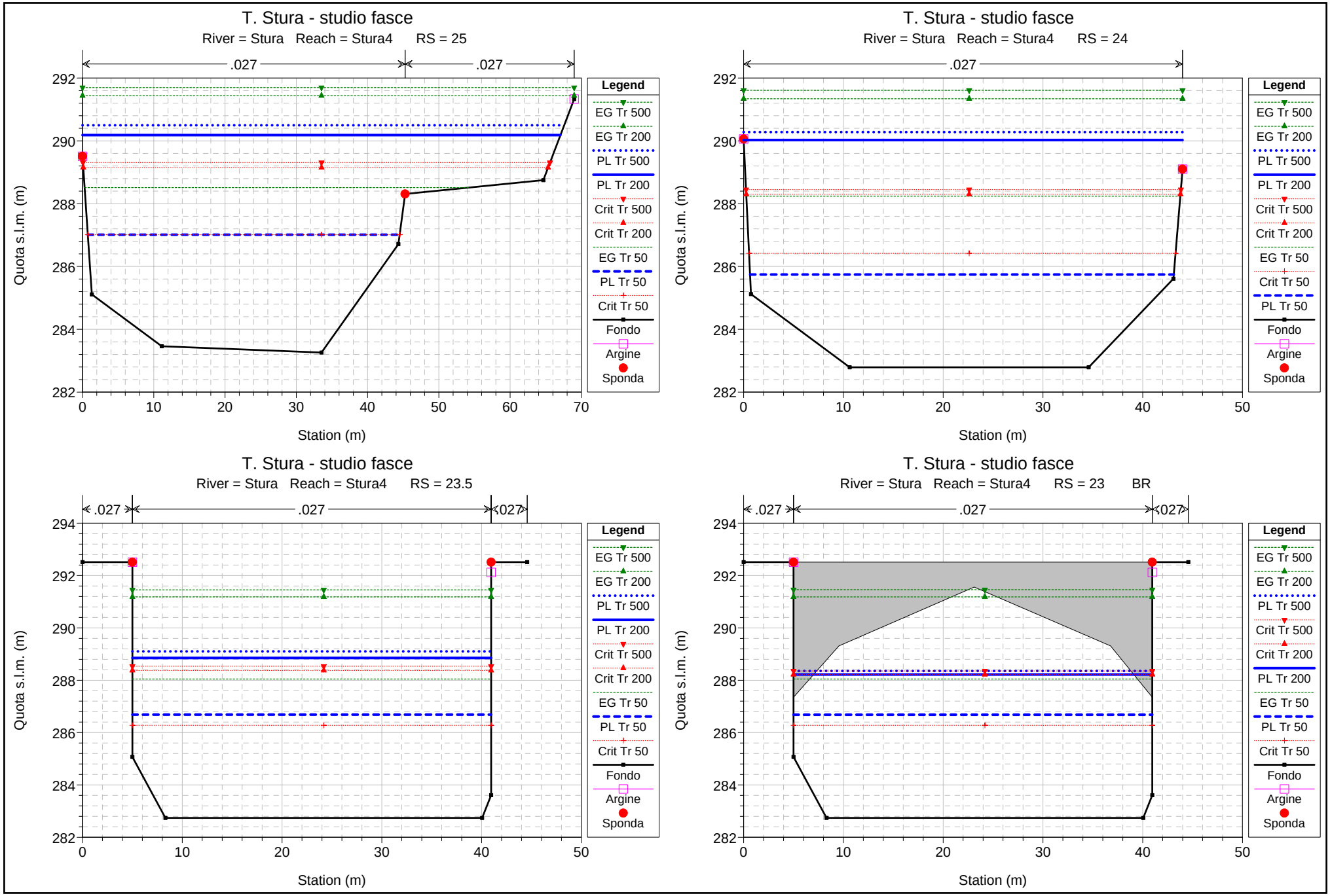

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 36
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

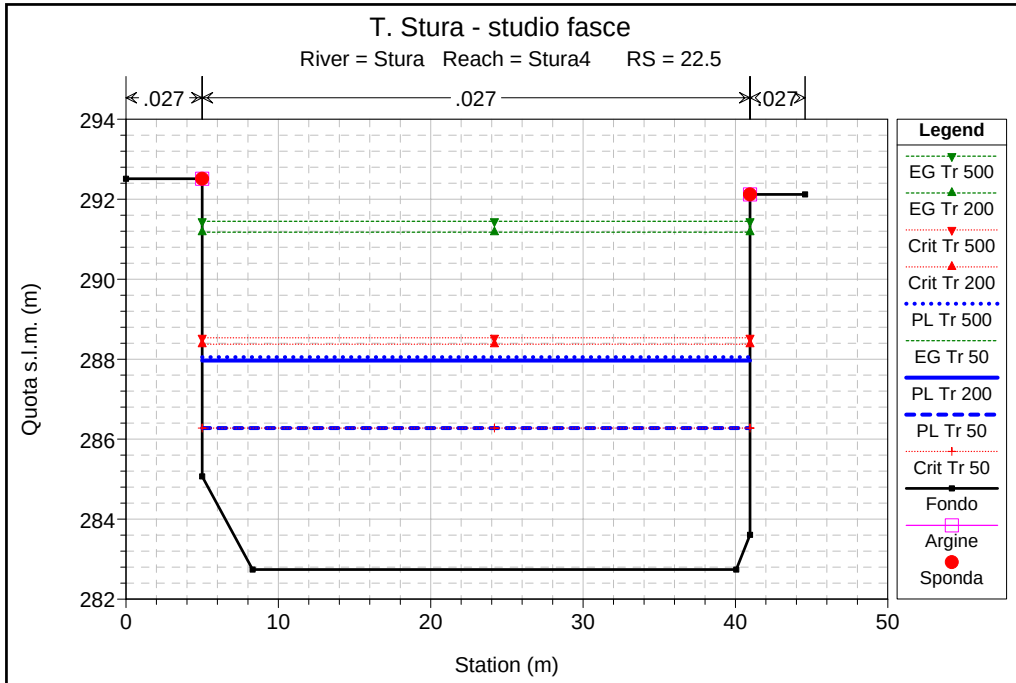

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 35
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

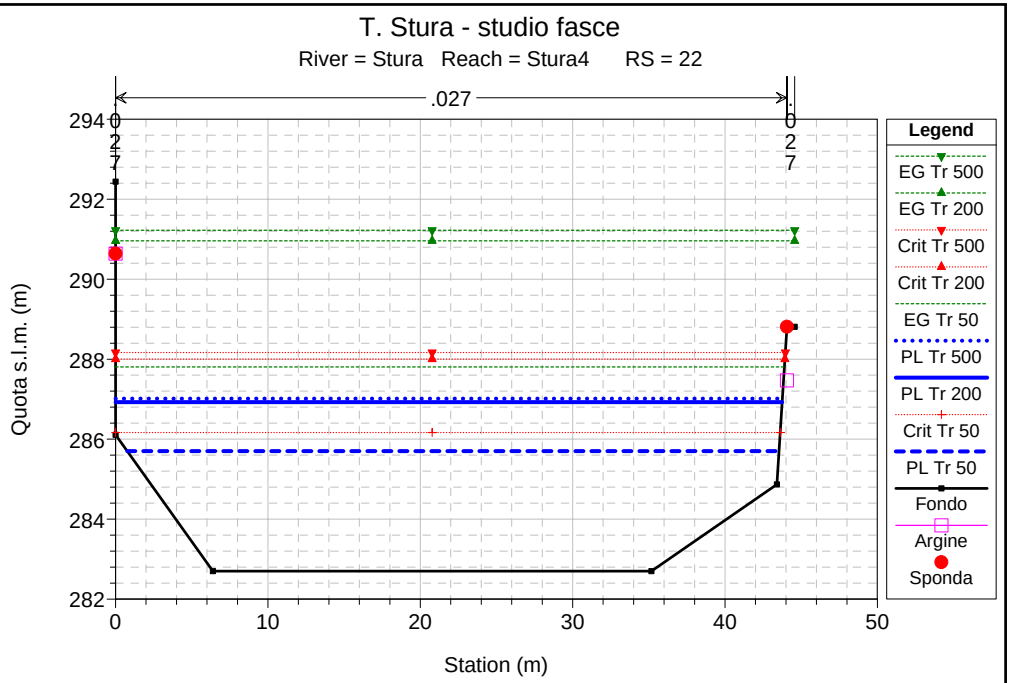

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 34
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

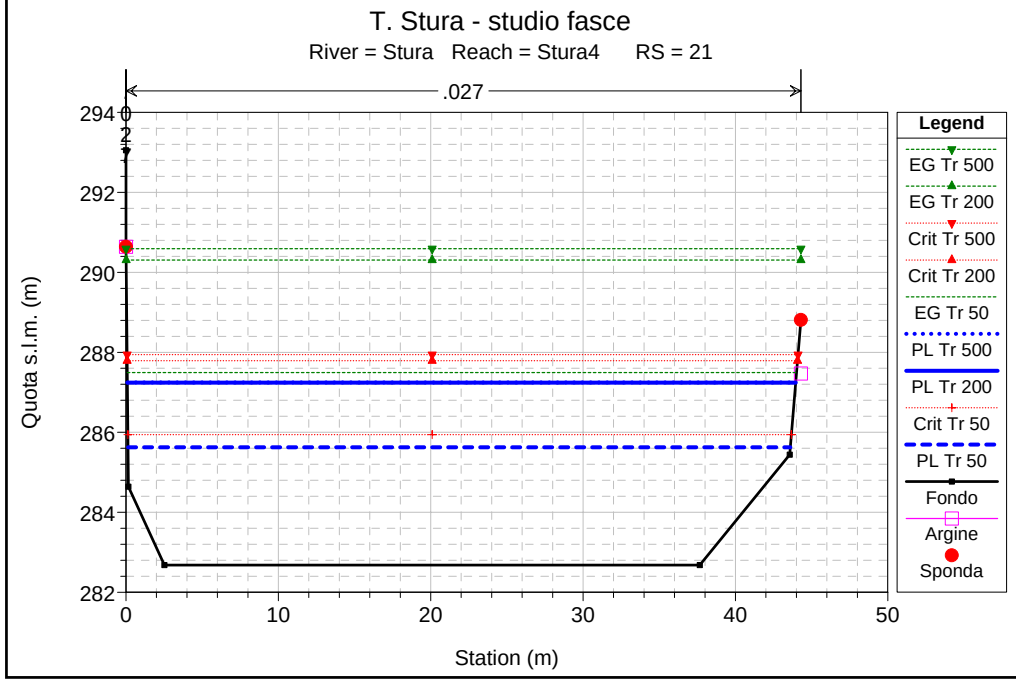

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 33
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 32
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 31
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 30
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

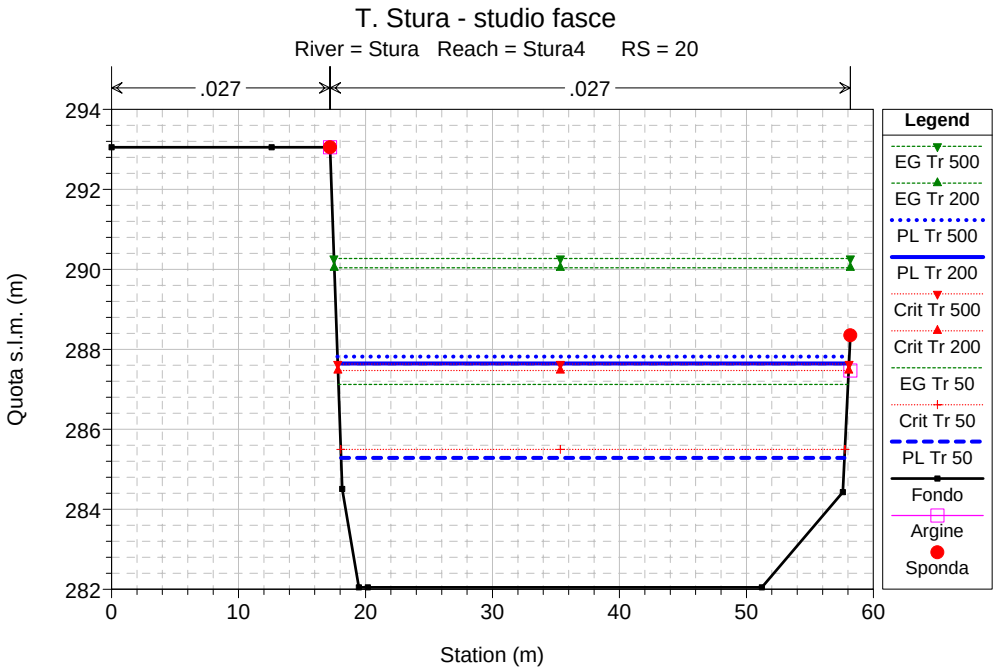

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 29
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 28
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 27
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 26
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

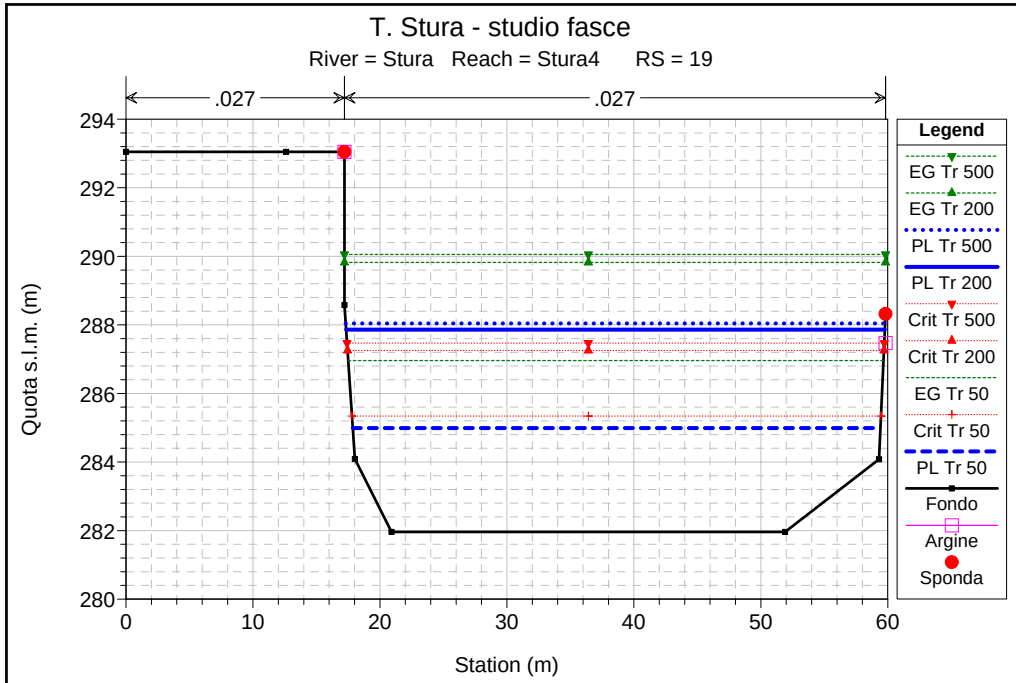

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 25
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda
T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 24
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda
T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 23.5
.027
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda
T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 23 BR
.027
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

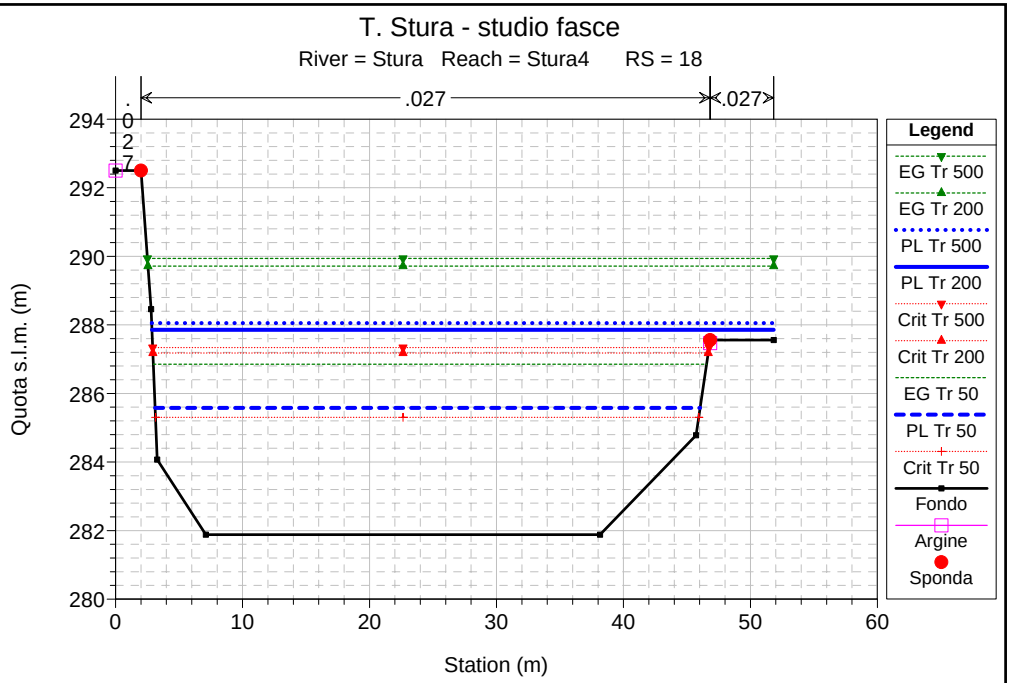

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 22.5
.027
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
PL Tr 500
EG Tr 50
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

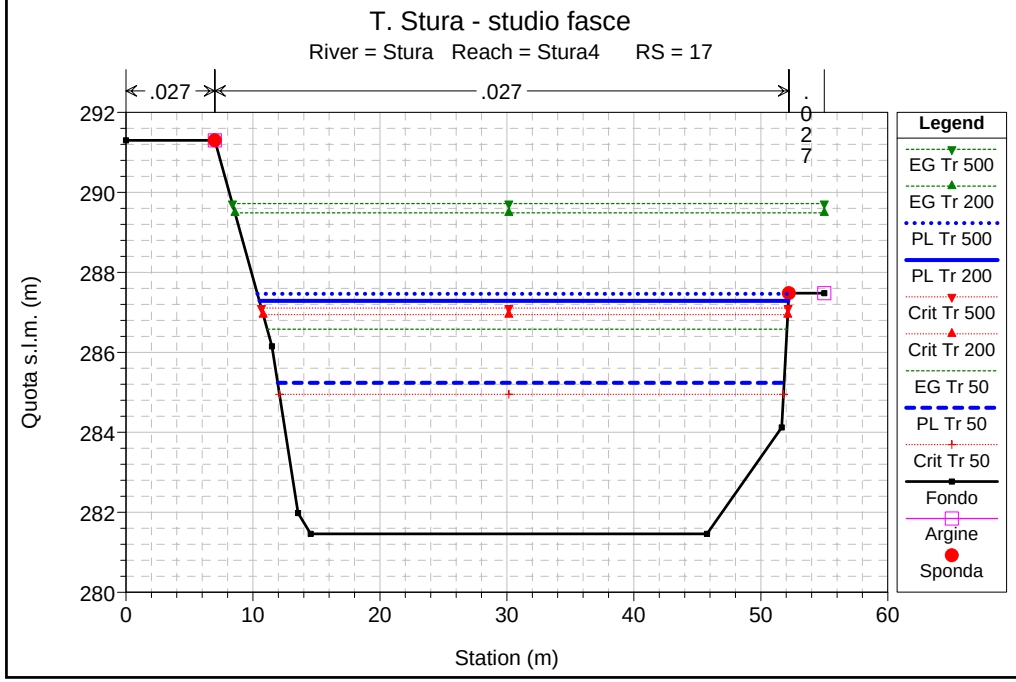

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 22
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

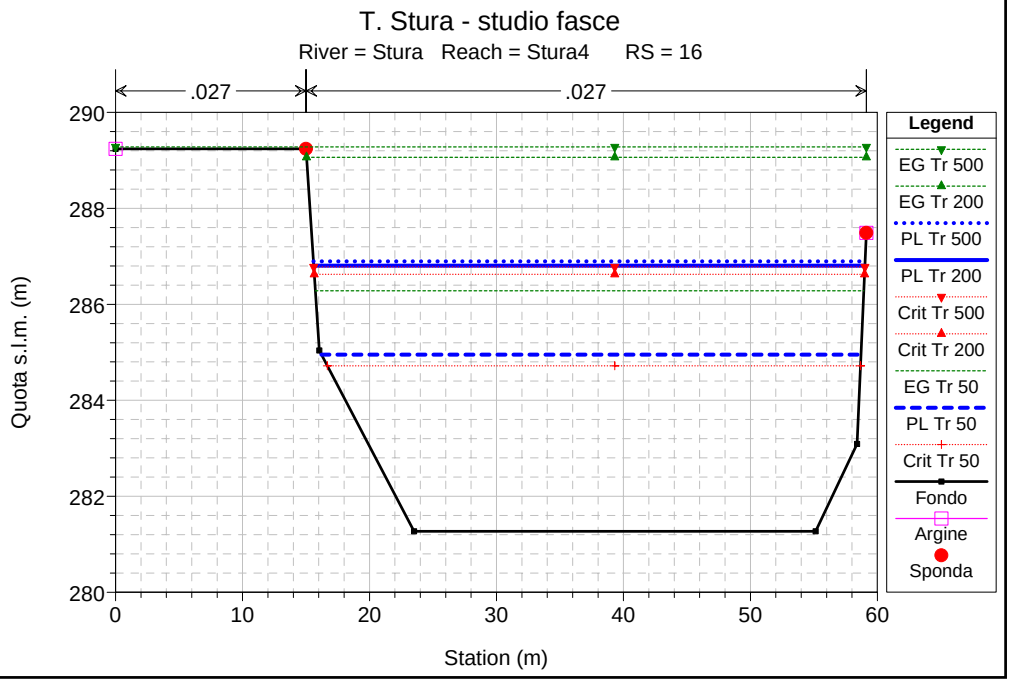

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 21
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

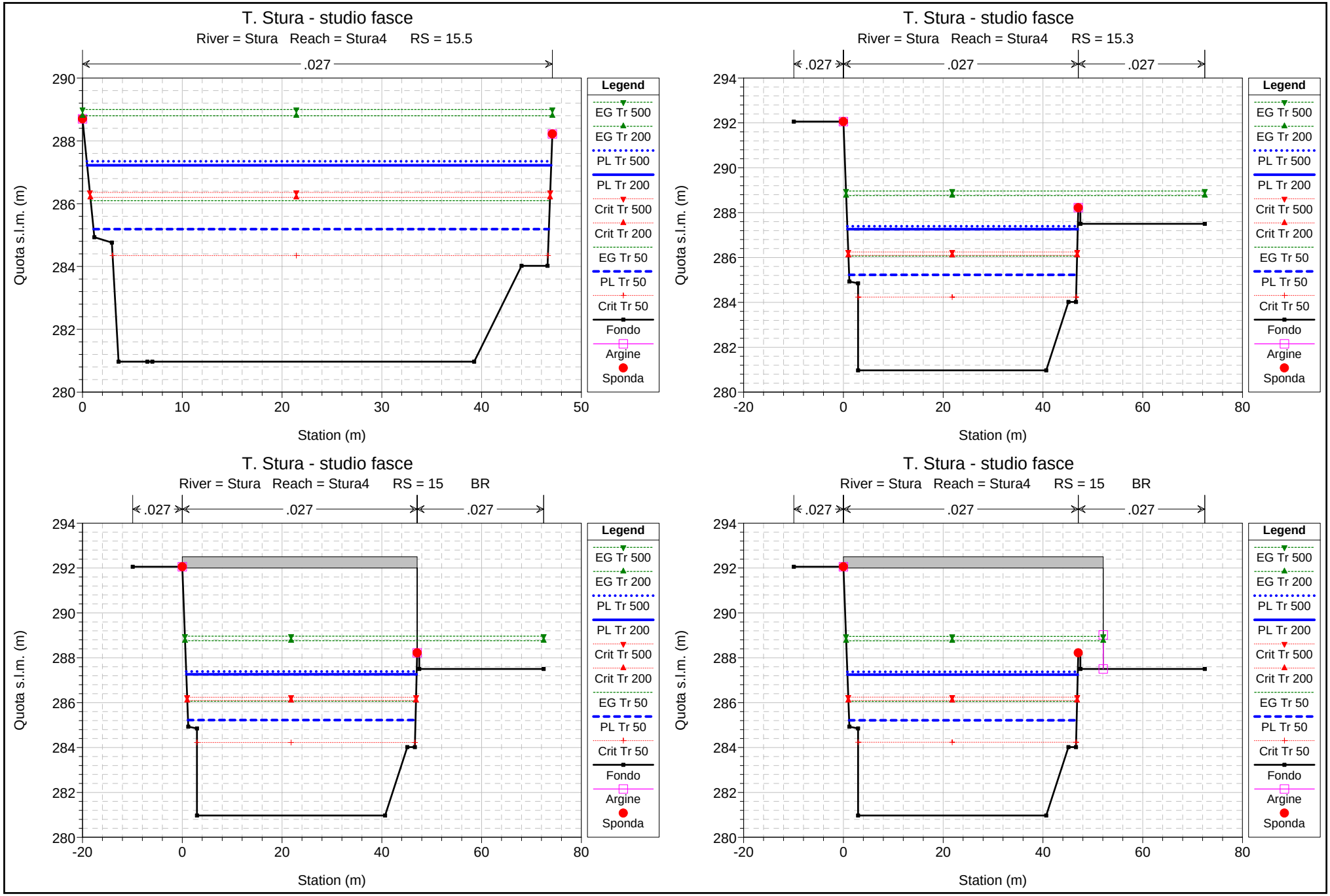

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 20
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

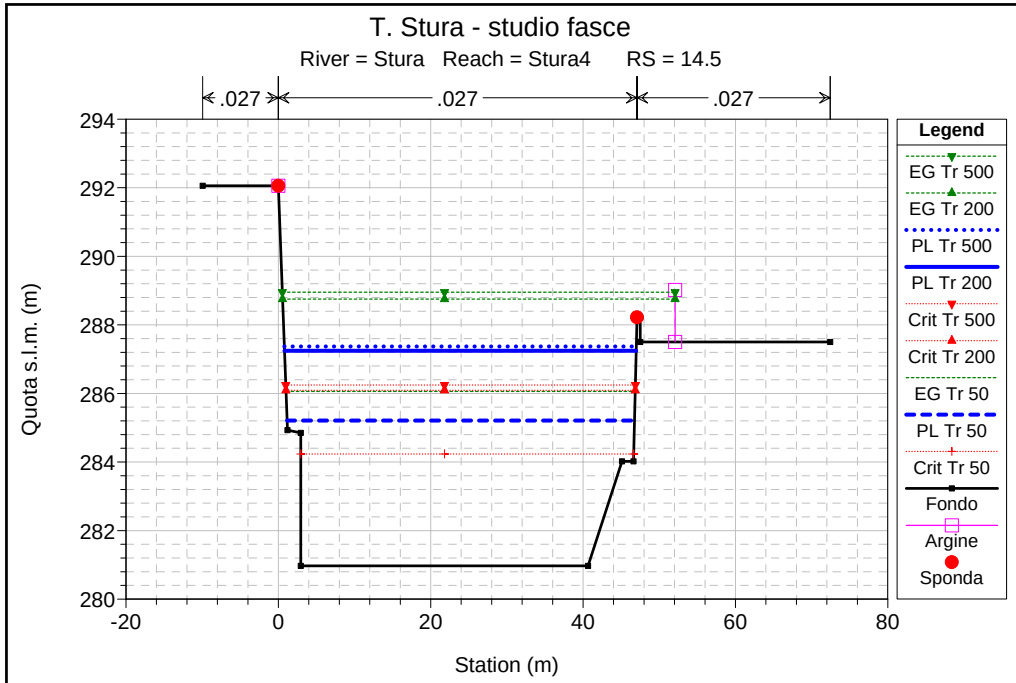

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 19
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

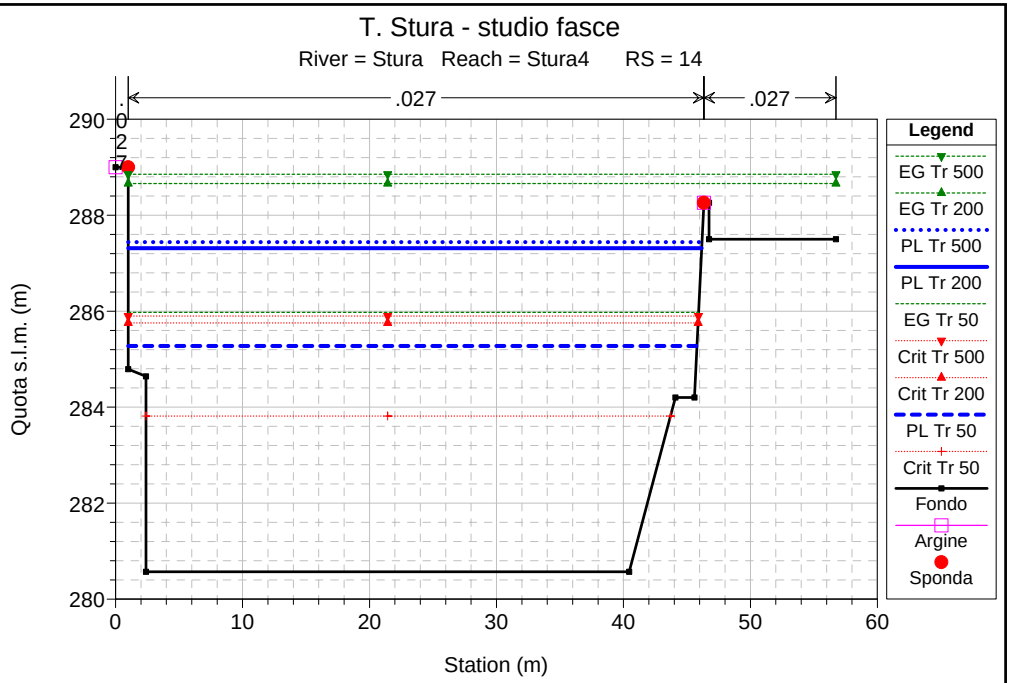

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 18
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

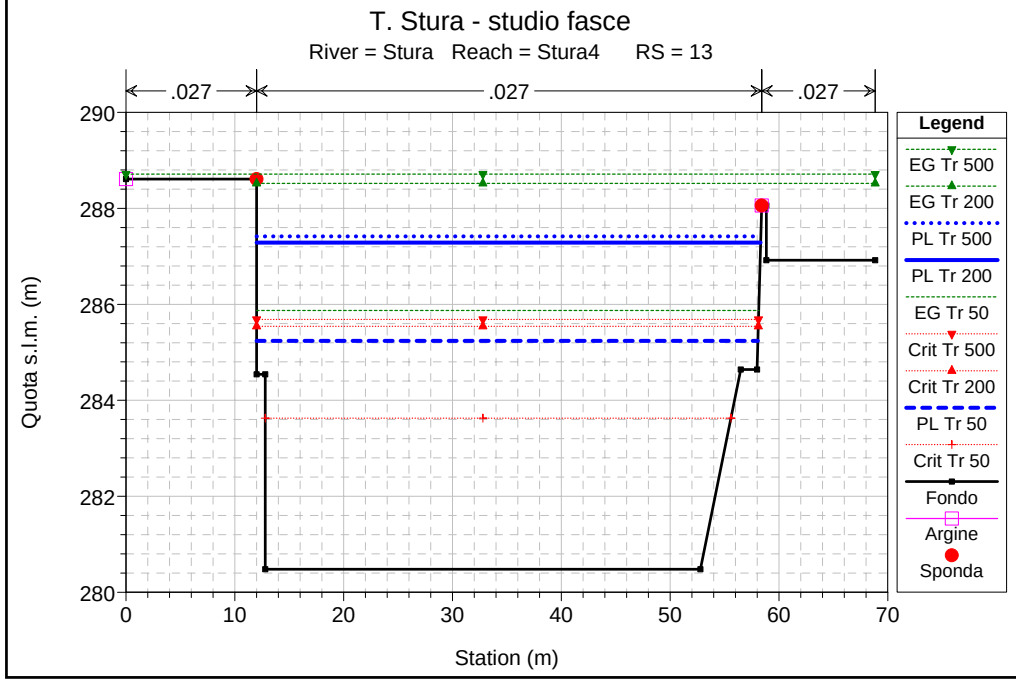

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 17
.027
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

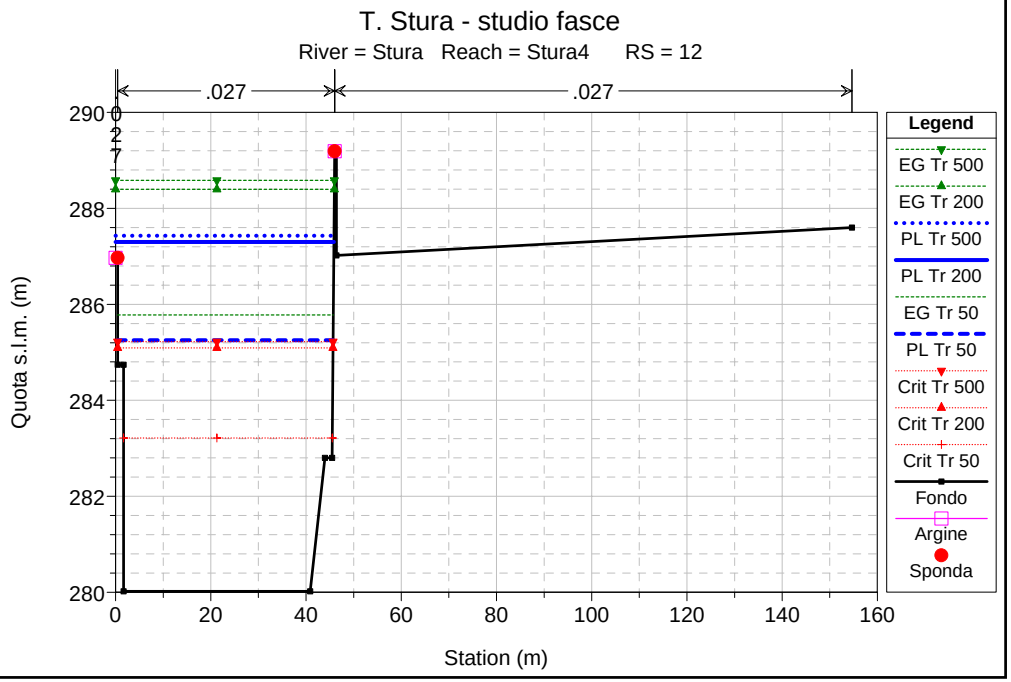

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 16
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

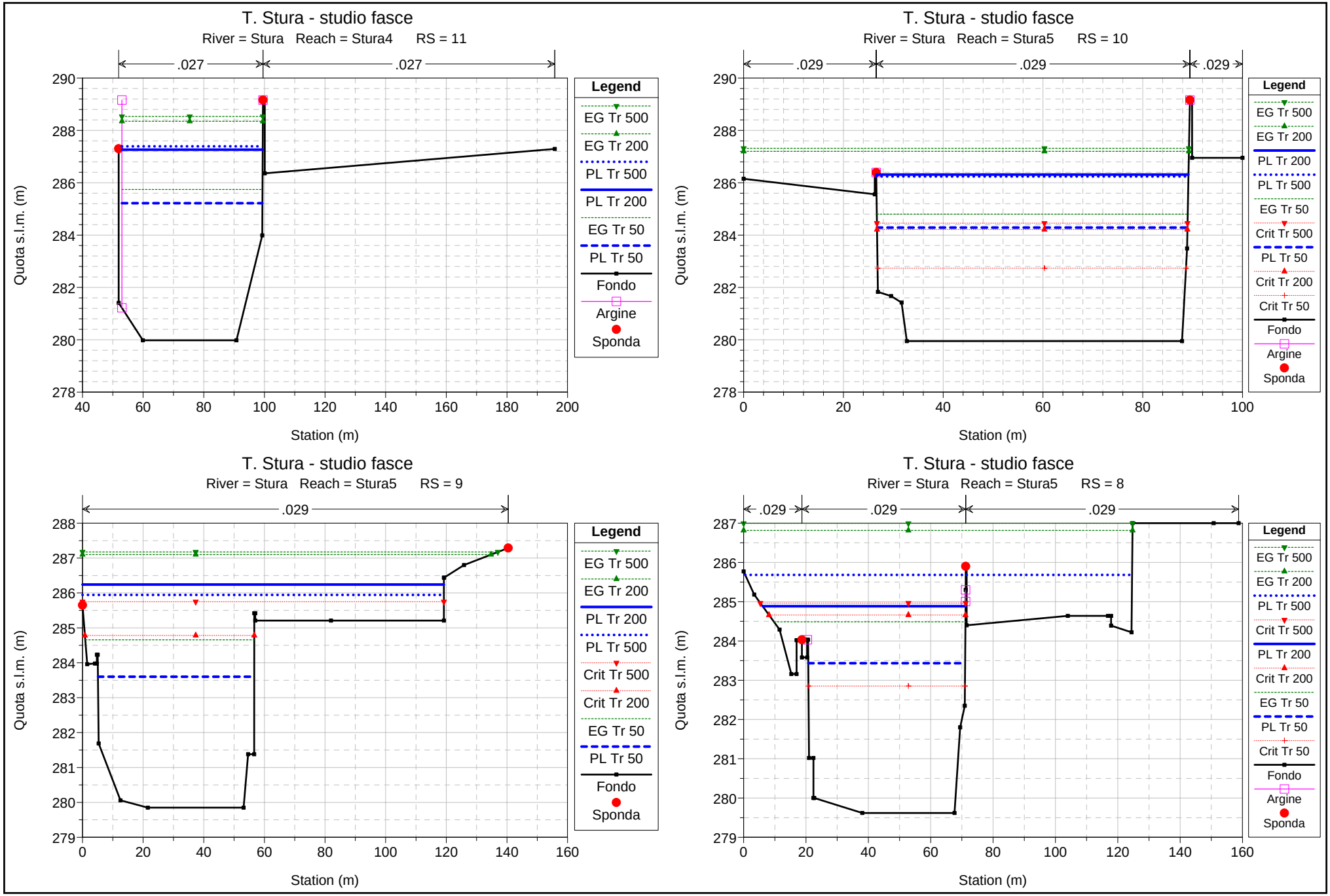

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 15.5
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda
T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 15.3
.027
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda
T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 15 BR
.027
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda
T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 15 BR
.027
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

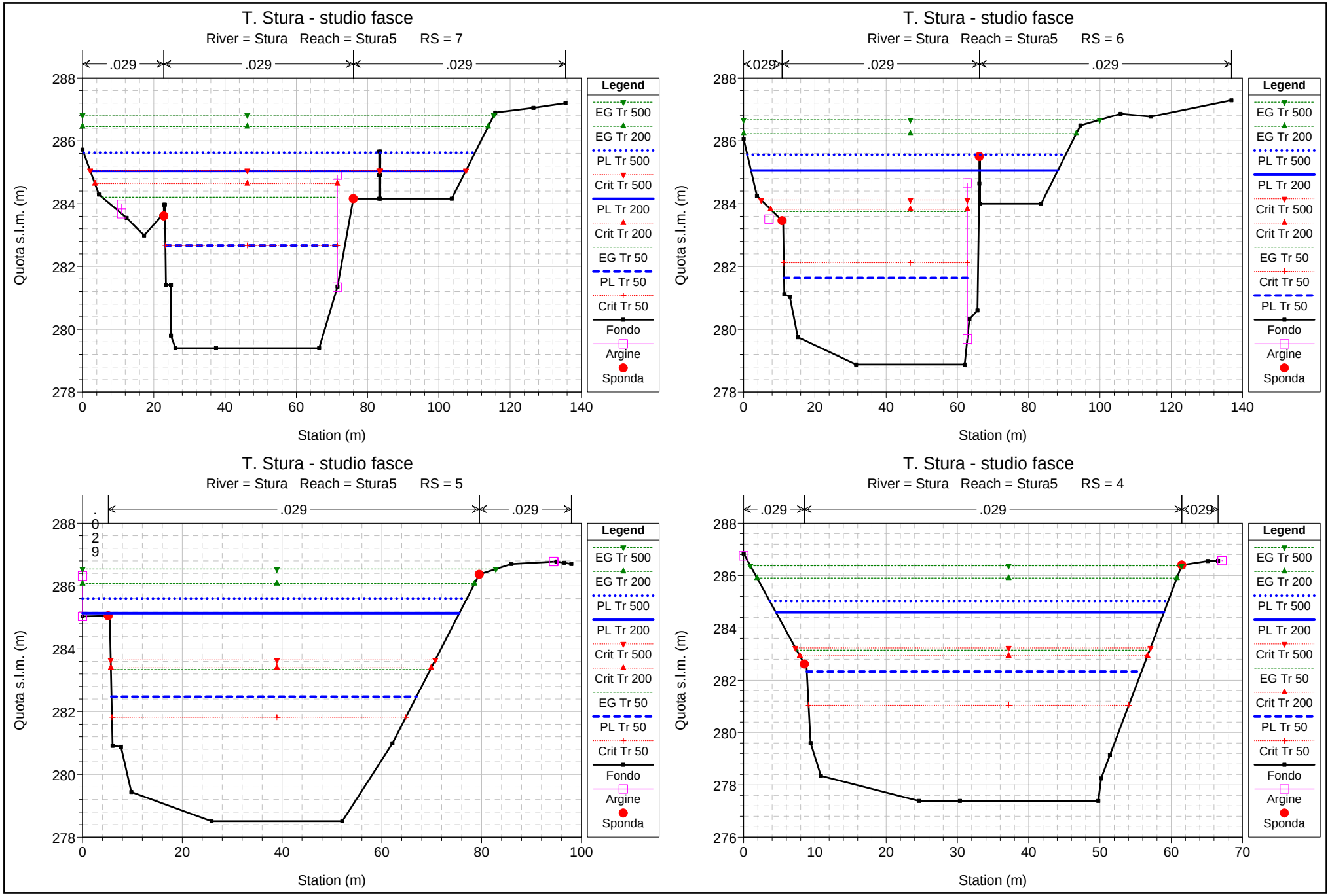

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 14.5
.027
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

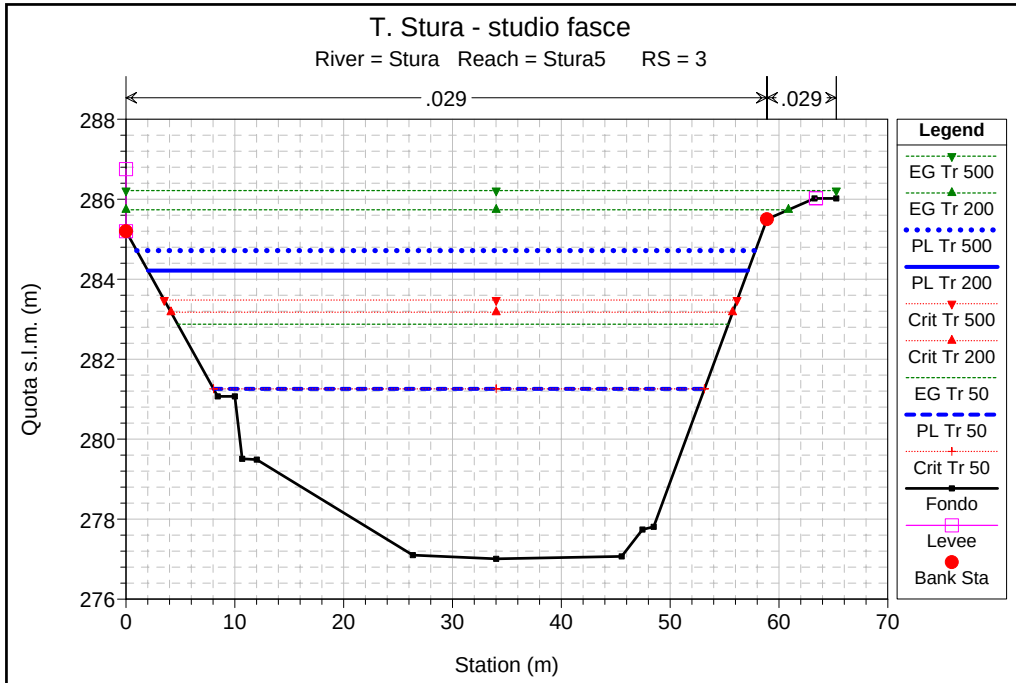

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 14
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

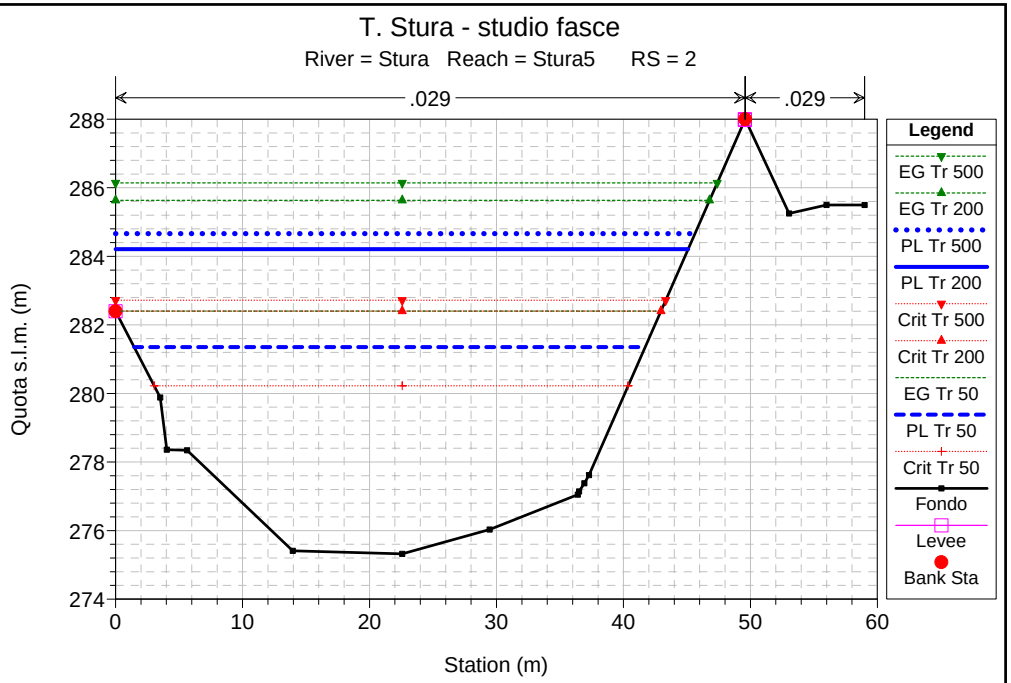

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 13
.027
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

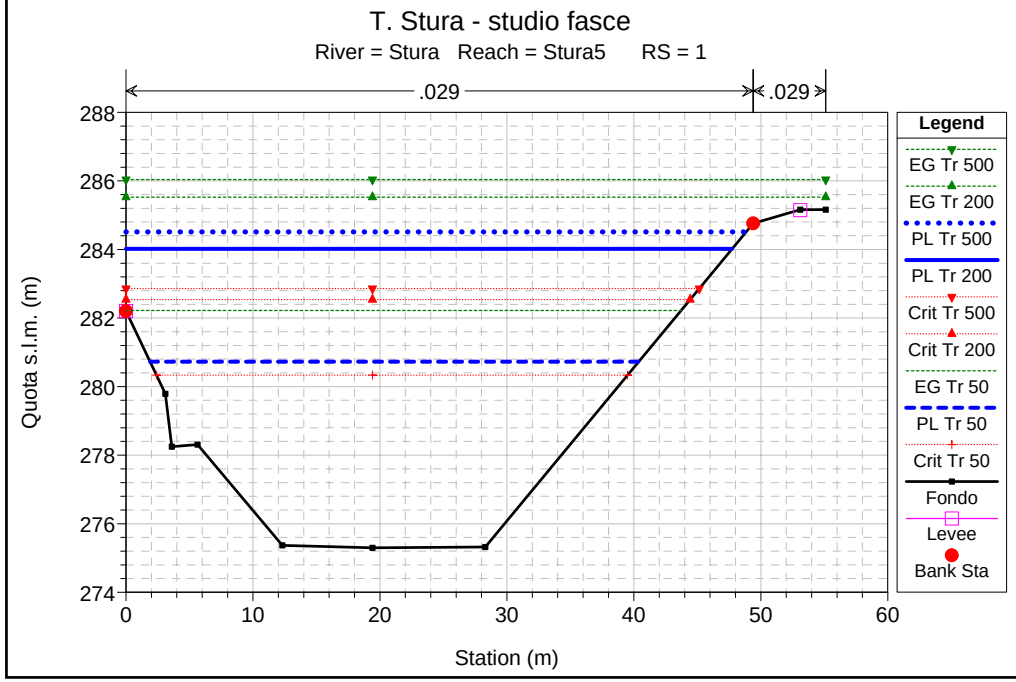

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 12
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Argine
Sponda

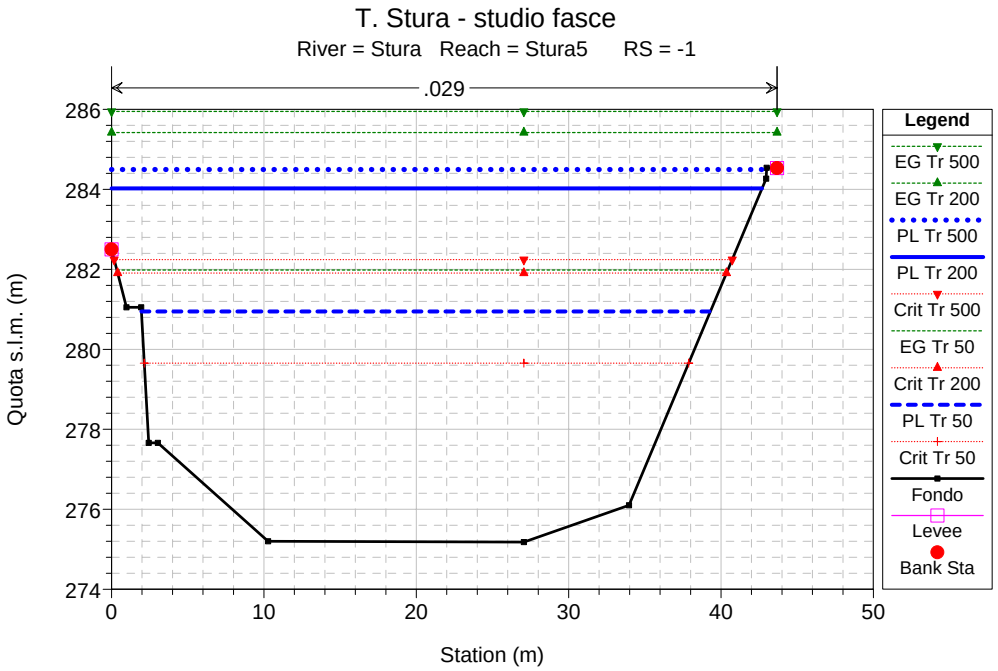

T. Stura - studio fasce
River = Stura Reach = Stura4 RS = 11
.027
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Fondo
Argine
Sponda
T. Stura - studio fasce
River = Stura Reach = Stura5 RS = 10
.029
.029
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 200
PL Tr 500
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Argine
Sponda
T. Stura - studio fasce
River = Stura Reach = Stura5 RS = 9
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Fondo
Sponda
T. Stura - studio fasce
River = Stura Reach = Stura5 RS = 8
.029
.029
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
PL Tr 200
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

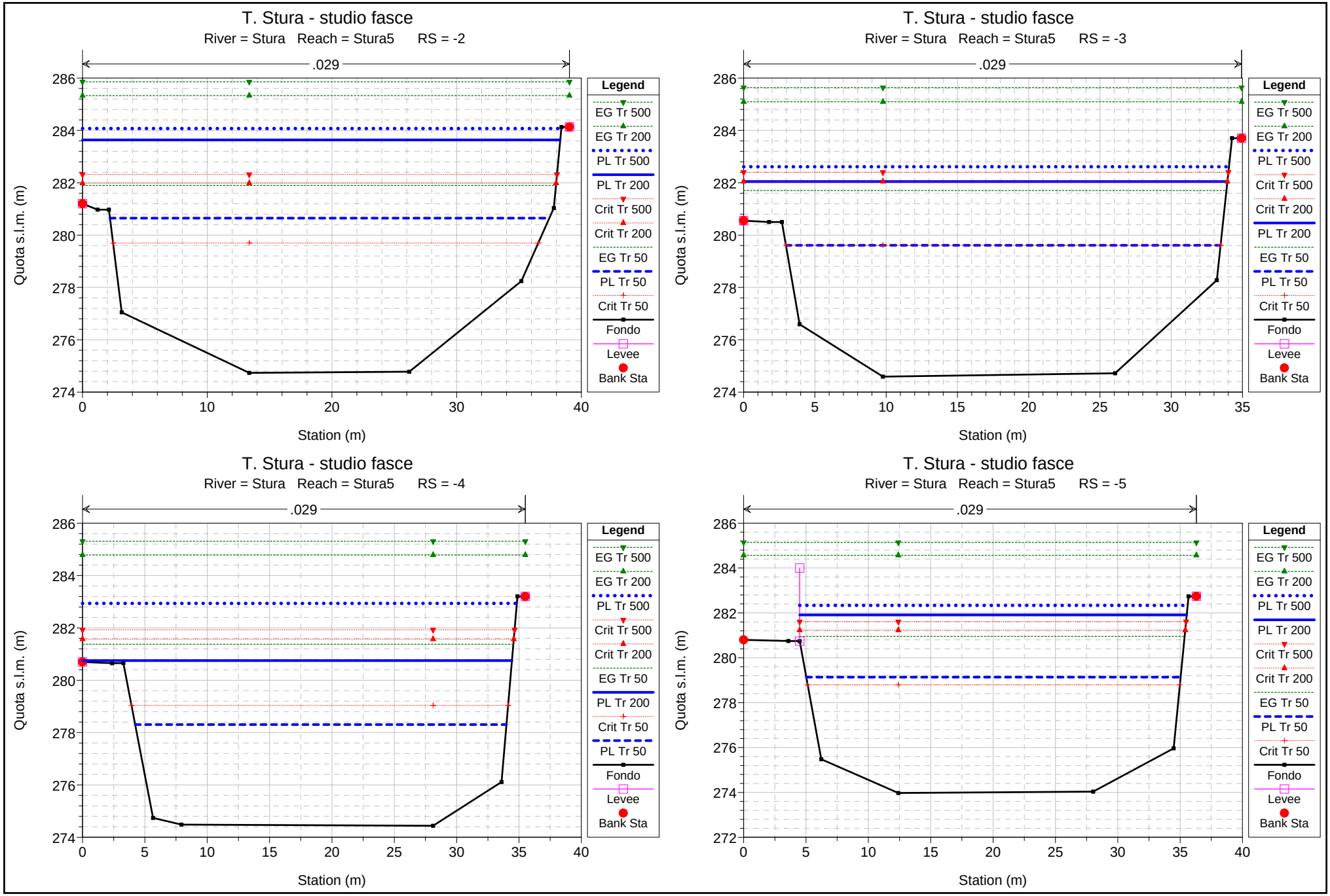

T. Stura - studio fasce
River = Stura Reach = Stura5 RS = 7
.029
.029
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
PL Tr 200
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda
T. Stura - studio fasce
River = Stura Reach = Stura5 RS = 6
.029
.029
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda
T. Stura - studio fasce
River = Stura Reach = Stura5 RS = 5
.029
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda
T. Stura - studio fasce
River = Stura Reach = Stura5 RS = 4
.029
.029
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

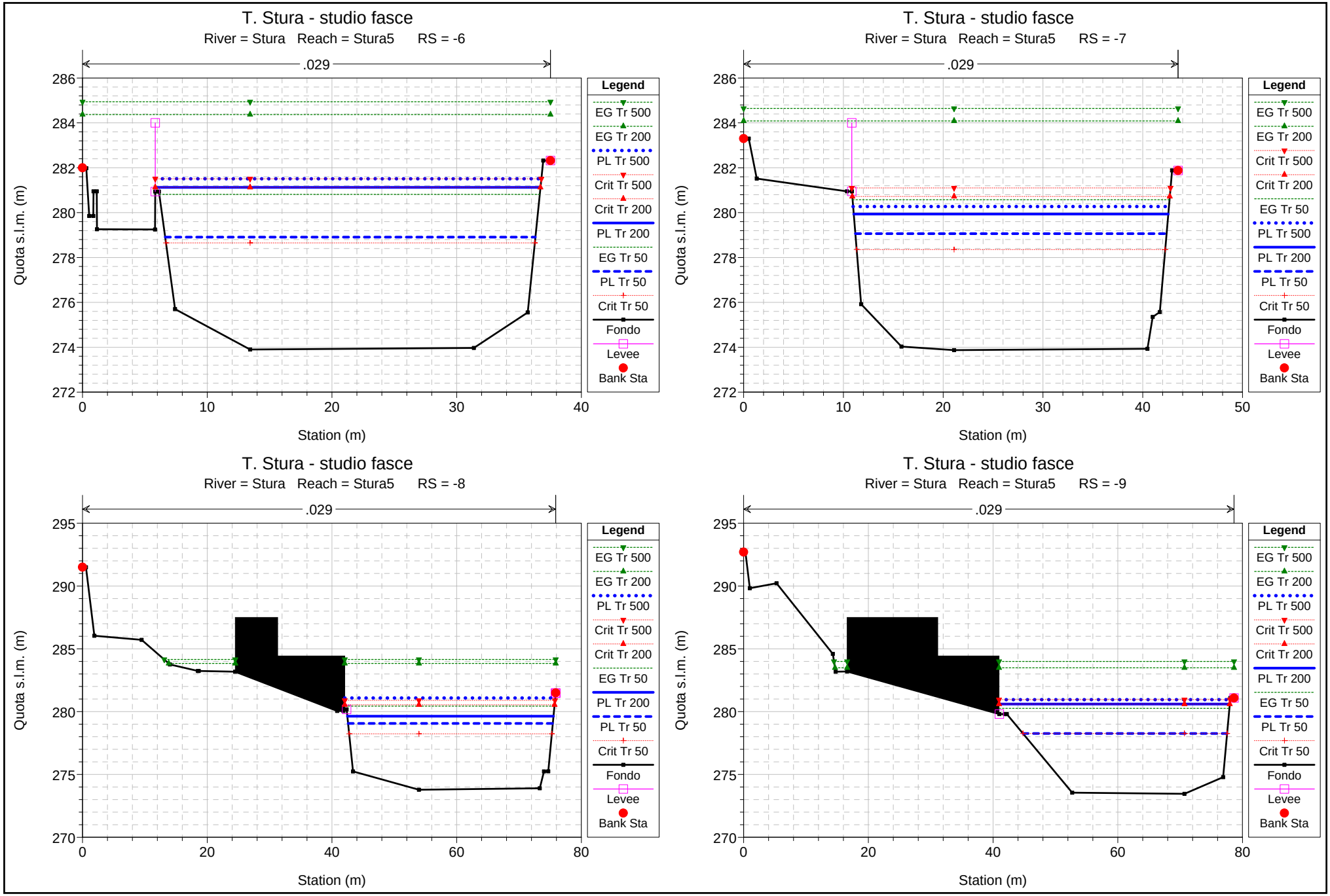

T. Stura - studio fasce
River = Stura Reach = Stura5 RS = 3
.029
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

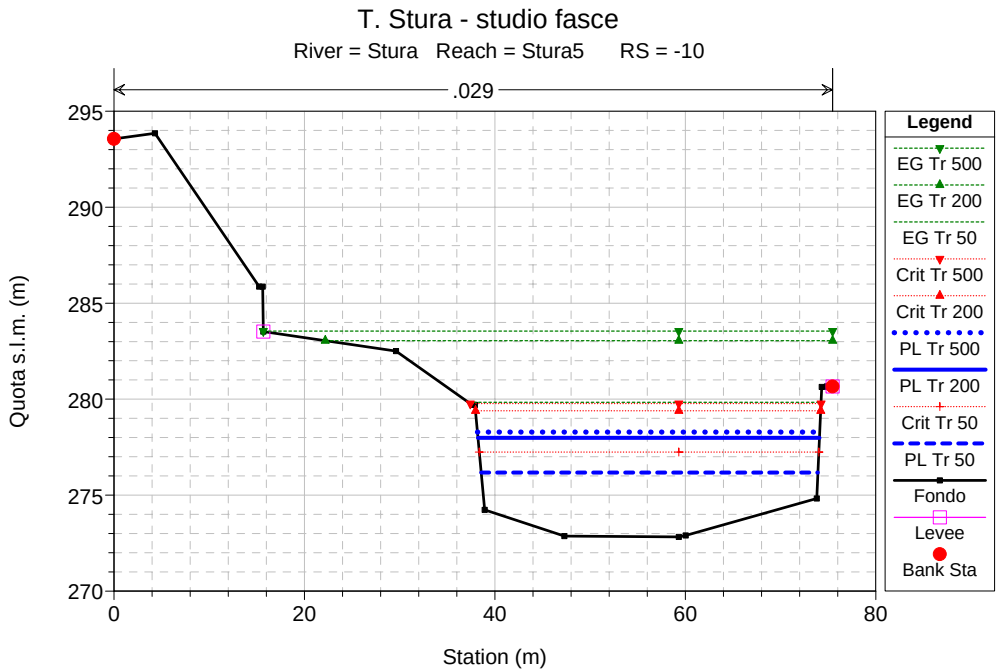

T. Stura - studio fasce
River = Stura Reach = Stura5 RS = 2
.029
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

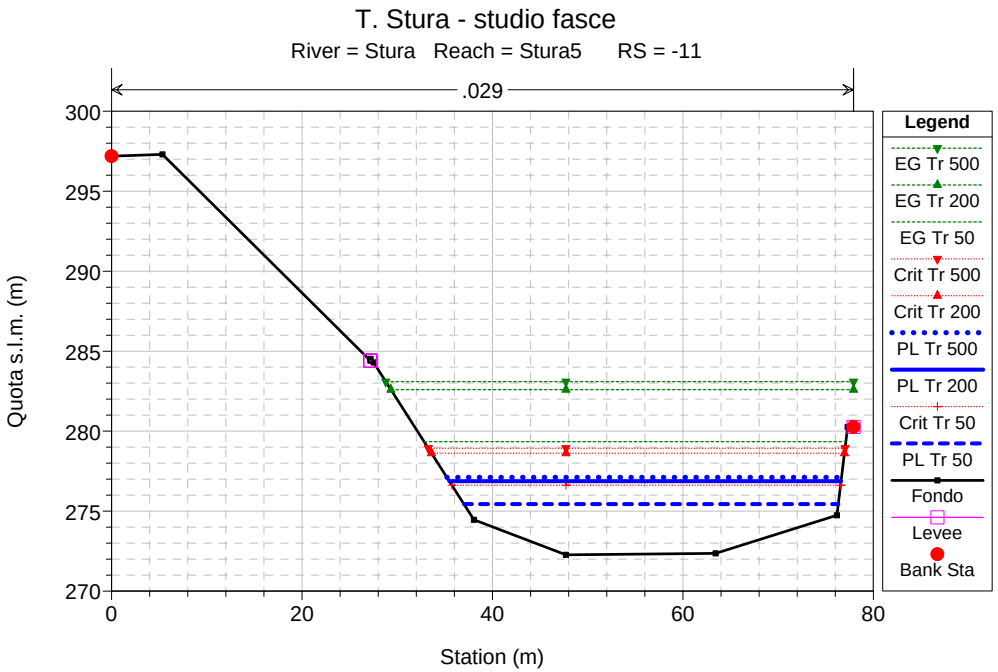

T. Stura - studio fasce
River = Stura Reach = Stura5 RS = 1
.029
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

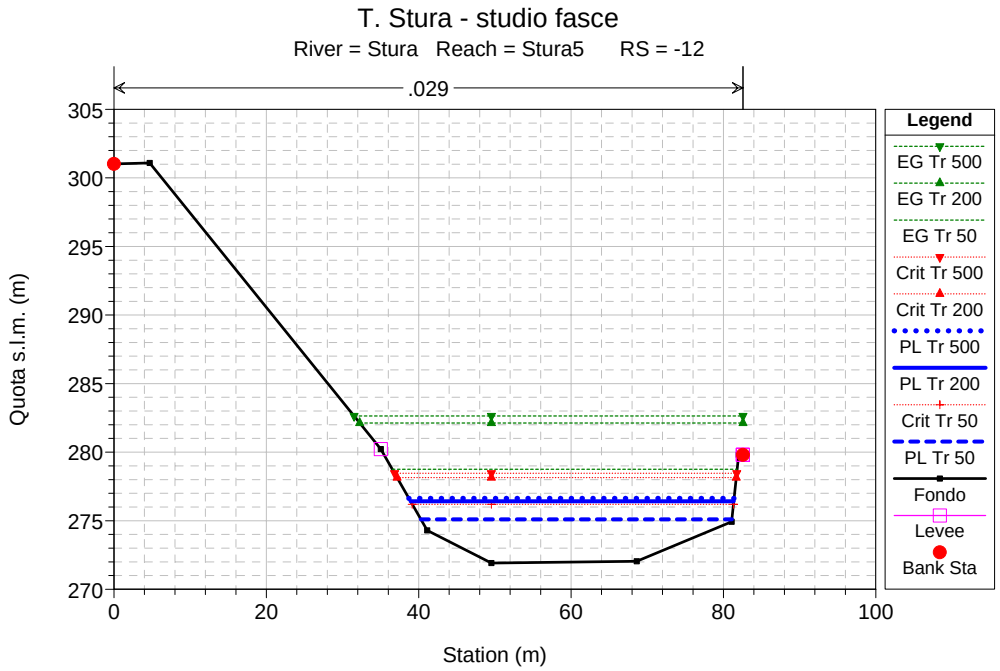

T. Stura - studio fasce
River = Stura Reach = Stura5 RS = -1
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura5 RS = -2
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura5 RS = -3
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura5 RS = -4
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura5 RS = -5
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura5 RS = -6
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura5 RS = -7
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura5 RS = -8
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
T. Stura - studio fasce
River = Stura Reach = Stura5 RS = -9
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura5 RS = -10
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura5 RS = -11
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Stura Reach = Stura5 RS = -12
.029
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

HEC-RAS Plan: 2_VBP2024

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura1	302	Tr 50	259.0	490.28	492.63	495.20	2.57	499.88	7.25	493.51	495.38	0.026010	7.34	35.28	21.15	1.82
Stura1	302	Tr 200	485.0	490.28	493.49	495.20	1.71	499.88	6.39	494.75	497.44	0.026022	8.80	55.10	24.97	1.89
Stura1	302	Tr 500	558.0	490.28	493.71	495.20	1.49	499.88	6.17	495.09	497.99	0.026026	9.16	60.93	25.98	1.91
Stura1	301	Tr 50	259.0	487.93	489.90	495.10	5.20	493.15	3.25	490.50	491.74	0.023835	6.01	43.10	33.81	1.70
Stura1	301	Tr 200	485.0	487.93	490.45	495.10	4.65	493.15	2.70	491.40	493.44	0.029079	7.65	63.39	40.09	1.94
Stura1	301	Tr 500	558.0	487.93	490.59	495.10	4.51	493.15	2.56	491.65	493.92	0.030358	8.08	69.07	41.55	2.00
Stura1	300	Tr 50	259.0	485.70	487.79	499.92	12.13	493.68	5.89	488.20	489.28	0.014673	5.40	47.93	30.35	1.37
Stura1	300	Tr 200	485.0	485.70	488.65	499.92	11.27	493.68	5.03	489.22	490.70	0.013578	6.34	76.55	35.82	1.38
Stura1	300	Tr 500	558.0	485.70	488.87	499.92	11.05	493.68	4.81	489.48	491.10	0.013502	6.62	84.31	36.73	1.40
Stura1	299	Tr 50	259.0	480.50	482.25	485.15	2.90	487.06	4.81	483.23	485.44	0.040708	7.91	32.74	25.13	2.21
Stura1	299	Tr 200	485.0	480.50	483.00	485.15	2.15	487.06	4.06	484.27	487.12	0.037082	8.99	53.96	31.81	2.20
Stura1	299	Tr 500	558.0	480.50	483.20	485.15	1.95	487.06	3.86	484.53	487.55	0.036469	9.24	60.40	33.74	2.20
Stura1	298	Tr 50	259.0	477.49	479.88	481.80	1.92	484.86	4.98	480.25	481.37	0.012482	5.42	47.81	26.38	1.28
Stura1	298	Tr 200	485.0	477.49	480.77	481.80	1.03	484.86	4.09	481.36	482.99	0.013174	6.61	73.38	31.12	1.37
Stura1	298	Tr 500	558.0	477.49	481.01	481.80	0.79	484.86	3.85	481.70	483.42	0.013217	6.88	81.07	32.39	1.39
Stura1	297	Tr 50	259.0	474.80	476.18	478.20	2.02	489.04	12.86	476.86	478.36	0.034031	6.54	39.61	35.71	1.98
Stura1	297	Tr 200	485.0	474.80	476.76	478.20	1.44	489.04	12.28	477.75	479.91	0.032508	7.86	61.70	40.67	2.04
Stura1	297	Tr 500	558.0	474.80	476.92	478.20	1.28	489.04	12.12	477.98	480.34	0.032300	8.19	68.15	42.03	2.05
Stura1	296	Tr 50	259.0	472.62	474.90	475.02	0.12	479.48	4.58	475.12	476.09	0.010609	4.84	53.51	31.31	1.18
Stura1	296	Tr 200	485.0	472.62	475.69	475.02	-0.68	479.48	3.78	476.18	477.56	0.010797	6.07	81.13	38.36	1.26
Stura1	296	Tr 500	558.0	472.62	475.91	475.02	-0.89	479.48	3.57	476.47	477.96	0.010837	6.38	89.42	40.29	1.27
Stura1	295	Tr 50	259.0	470.42	472.19	475.46	3.27	485.05	12.86	472.86	474.33	0.023633	6.47	40.04	27.46	1.71
Stura1	295	Tr 200	485.0	470.42	473.04	475.46	2.42	485.05	12.01	473.94	475.88	0.020111	7.47	64.92	31.51	1.66
Stura1	295	Tr 500	558.0	470.42	473.27	475.46	2.19	485.05	11.78	474.23	476.30	0.019498	7.71	72.37	32.68	1.65
Stura1	294	Tr 50	259.0	466.56	468.80	471.00	2.20	471.30	2.50	469.21	470.36	0.013777	5.54	46.76	26.86	1.34
Stura1	294	Tr 200	485.0	466.56	469.61	471.00	1.39	471.30	1.69	470.34	472.04	0.015164	6.91	70.16	30.87	1.46
Stura1	294	Tr 500	558.0	466.56	469.83	471.00	1.17	471.30	1.47	470.64	472.50	0.015383	7.24	77.10	31.96	1.49
Stura1	293	Tr 50	259.0	465.22	467.36	475.03	7.67	469.57	2.21	467.93	469.19	0.018553	5.99	43.21	27.84	1.54
Stura1	293	Tr 200	485.0	465.22	468.14	475.03	6.89	469.57	1.43	469.00	470.80	0.019127	7.22	67.16	33.37	1.63
Stura1	293	Tr 500	558.0	465.22	468.34	475.03	6.69	469.57	1.23	469.28	471.24	0.019381	7.54	74.05	34.84	1.65
Stura1	292	Tr 50	259.0	462.27	464.03	465.08	1.05	465.06	1.03	464.63	465.97	0.024915	6.17	41.95	32.62	1.74
Stura1	292	Tr 200	485.0	462.27	464.68	465.08	0.40	465.06	0.38	465.67	467.58	0.023885	7.54	64.35	35.70	1.79
Stura1	292	Tr 500	558.0	462.27	464.87	465.08	0.21	465.06	0.19	465.98	468.02	0.023556	7.86	71.02	36.57	1.80
Stura1	291	Tr 50	259.0	460.32	462.89	463.71	0.82	462.97	0.08	463.24	464.17	0.011517	5.00	51.77	30.62	1.23
Stura1	291	Tr 200	485.0	460.32	463.58	463.71	0.13	462.97	-0.61	464.23	465.58	0.013515	6.35	82.24	62.21	1.38
Stura1	291	Tr 500	558.0	460.32	463.71	463.71	0.00	462.97	-0.74	464.43	465.95	0.014634	6.77	90.08	63.23	1.45
Stura1	290	Tr 50	259.0	457.45	459.20	474.95	15.75	463.10	3.90	460.00	461.67	0.030711	6.97	37.17	27.88	1.93
Stura1	290	Tr 200	485.0	457.45	460.01	474.95	14.94	463.10	3.09	460.95	463.02	0.026371	7.69	63.06	36.29	1.86

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura1	290	Tr 500	558.0	457.45	460.23	474.95	14.72	463.10	2.87	461.21	463.36	0.024681	7.84	71.20	37.85	1.82
Stura1	289	Tr 50	259.0	455.25	457.67	458.45	0.78	459.40	1.73	458.13	459.35	0.014345	5.75	45.05	25.21	1.37
Stura1	289	Tr 200	485.0	455.25	458.66	458.45	-0.21	459.40	0.74	459.37	460.93	0.013246	6.68	72.83	32.39	1.38
Stura1	289	Tr 500	558.0	455.25	458.91	458.45	-0.46	459.40	0.49	459.68	461.35	0.013037	6.92	81.34	35.74	1.39
Stura1	288	Tr 50	259.0	450.46	452.16	455.10	2.94	456.75	4.59	453.15	455.53	0.042070	8.13	31.87	23.93	2.25
Stura1	288	Tr 200	485.0	450.46	452.92	455.10	2.18	456.75	3.83	454.25	457.41	0.036430	9.38	51.69	27.84	2.20
Stura1	288	Tr 500	558.0	450.46	453.13	455.10	1.97	456.75	3.62	454.57	457.91	0.034682	9.68	57.64	28.46	2.17
Stura1	287	Tr 50	259.0	444.64	446.55	451.80	5.25	457.10	10.55	447.70	450.39	0.039398	8.68	29.83	18.50	2.18
Stura1	287	Tr 200	485.0	444.64	447.43	451.80	4.37	457.10	9.67	449.08	452.80	0.035861	10.26	47.26	20.79	2.17
Stura1	287	Tr 500	558.0	444.64	447.68	451.80	4.12	457.10	9.42	449.46	453.45	0.035126	10.64	52.47	21.43	2.17
Stura1	286	Tr 50	259.0	442.21	445.01	450.08	5.07	448.30	3.29	445.22	446.30	0.010232	5.02	51.60	27.50	1.17
Stura1	286	Tr 200	485.0	442.21	445.71	450.08	4.37	448.30	2.59	446.35	448.05	0.013548	6.77	71.61	29.68	1.39
Stura1	286	Tr 500	558.0	442.21	445.90	450.08	4.18	448.30	2.40	446.66	448.56	0.014373	7.23	77.16	30.20	1.44
Stura1	285	Tr 50	259.0	440.28	442.65	442.35	-0.30	444.90	2.25	443.20	444.53	0.016603	6.08	43.43	28.25	1.47
Stura1	285	Tr 200	485.0	440.28	443.58	442.35	-1.23	444.90	1.32	444.35	446.18	0.014264	7.20	71.90	32.71	1.45
Stura1	285	Tr 500	558.0	440.28	443.82	442.35	-1.47	444.90	1.08	444.66	446.65	0.014187	7.53	79.79	33.84	1.46
Stura1	284	Tr 50	259.0	436.32	438.43	445.00	6.57	442.37	3.94	439.21	440.92	0.022876	6.99	37.06	21.69	1.71
Stura1	284	Tr 200	485.0	436.32	439.34	445.00	5.66	442.37	3.03	440.47	442.90	0.021605	8.35	58.05	24.51	1.73
Stura1	284	Tr 500	558.0	436.32	439.60	445.00	5.40	442.37	2.77	440.81	443.41	0.021089	8.65	64.53	25.32	1.73
Stura1	283.5	Tr 50	259.0	434.44	438.98	439.67	0.69	439.22	0.24	437.55	439.34	0.007747	2.67	96.88	29.63	0.47
Stura1	283.5	Tr 200	485.0	434.44	440.99	439.67	-1.32	439.22	-1.77	438.69	441.39	0.004975	2.89	189.09	65.29	0.40
Stura1	283.5	Tr 500	558.0	434.44	441.51	439.67	-1.84	439.22	-2.29	439.02	441.90	0.004430	2.91	226.06	76.65	0.39
Stura1	283		Bridge													
Stura1	282.7	Tr 50	259.0	434.43	438.72	439.67	0.95	439.22	0.50	437.55	439.15	0.009714	2.89	89.56	28.90	0.52
Stura1	282.7	Tr 200	485.0	434.43	439.93	439.67	-0.26	439.22	-0.71	438.69	440.66	0.011654	3.81	131.62	43.80	0.60
Stura1	282.7	Tr 500	558.0	434.43	440.21	439.67	-0.54	439.22	-0.99	439.02	441.04	0.012190	4.07	144.92	49.86	0.62
Stura1	282.3	Tr 50	259.0	433.40	437.90	438.80	0.90	438.53	0.63	436.15	438.11	0.004953	2.03	127.29	46.22	0.39
Stura1	282.3	Tr 200	485.0	433.40	438.98	438.80	-0.18	438.53	-0.45	437.25	439.34	0.006314	2.67	183.36	61.50	0.46
Stura1	282.3	Tr 500	558.0	433.40	439.28	438.80	-0.48	438.53	-0.75	437.54	439.68	0.006319	2.81	202.25	63.01	0.46
Stura1	282		Inl Struct													
Stura1	281.5	Tr 50	259.0	433.20	437.10	438.80	1.69	438.53	1.43	435.97	437.47	0.009798	2.66	97.28	39.22	0.54
Stura1	281.5	Tr 200	485.0	433.20	438.62	438.80	0.18	438.53	-0.09	437.13	439.05	0.008304	2.91	166.71	53.16	0.52
Stura1	281.5	Tr 500	558.0	433.20	439.01	438.80	-0.21	438.53	-0.48	437.42	439.46	0.007584	2.98	189.20	61.93	0.50
Stura1	281	Tr 50	259.0	431.46	435.63	438.68	3.05	438.59	2.96	434.46	436.03	0.009295	2.82	91.96	31.86	0.53
Stura1	281	Tr 200	485.0	431.46	437.21	438.68	1.47	438.59	1.38	435.61	437.77	0.008564	3.31	146.58	36.93	0.53
Stura1	281	Tr 500	558.0	431.46	437.66	438.68	1.02	438.59	0.93	435.92	438.25	0.008372	3.42	163.18	38.33	0.53

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura1	280	Tr 50	259.0	430.08	434.12	443.20	9.08	437.80	3.68	433.44	434.79	0.016414	3.64	71.22	25.30	0.69
Stura1	280	Tr 200	485.0	430.08	435.79	443.20	7.41	437.80	2.01	434.70	436.67	0.013831	4.15	116.75	28.92	0.66
Stura1	280	Tr 500	558.0	430.08	436.21	443.20	6.99	437.80	1.59	435.05	437.16	0.013722	4.32	129.03	29.65	0.66
Stura1	279	Tr 50	259.0	429.13	432.01	434.50	2.49	434.32	2.31	431.62	432.79	0.029063	3.92	66.01	25.71	0.78
Stura1	279	Tr 200	485.0	429.13	432.76	434.50	1.74	434.32	1.56	432.76	434.40	0.048406	5.69	85.31	25.73	1.00
Stura1	279	Tr 500	558.0	429.13	433.08	434.50	1.42	434.32	1.24	433.08	434.89	0.049028	5.95	93.71	25.75	1.00
Stura1	278	Tr 50	259.0	428.24	431.87	431.20	-0.67	431.20	-0.67	430.96	432.30	0.010179	2.89	91.55	40.30	0.56
Stura1	278	Tr 200	485.0	428.24	432.92	431.20	-1.72	431.20	-1.72	432.06	433.61	0.011119	3.75	140.27	52.48	0.62
Stura1	278	Tr 500	558.0	428.24	433.23	431.20	-2.03	431.20	-2.03	432.36	433.98	0.010933	3.92	157.14	56.08	0.62
Stura1	277.5	Tr 50	259.0	425.54	427.89	429.73	1.84	429.68	1.79	427.87	428.96	0.038730	4.58	56.53	25.94	0.99
Stura1	277.5	Tr 200	485.0	425.54	429.54	429.73	0.19	429.68	0.14	429.06	430.67	0.024046	4.71	103.73	37.94	0.82
Stura1	277.5	Tr 500	558.0	425.54	429.86	429.73	-0.13	429.68	-0.18	429.40	431.08	0.023632	4.90	117.27	49.35	0.82
Stura1	277	Tr 50	259.0	424.64	428.31	429.73	1.42	429.68	1.37	427.09	428.77	0.010262	2.99	86.65	27.00	0.53
Stura1	277	Tr 200	485.0	424.64	429.85	429.73	-0.12	429.68	-0.17	428.32	430.53	0.011077	3.67	135.45	48.57	0.57
Stura1	277	Tr 500	558.0	424.64	430.19	429.73	-0.46	429.68	-0.51	428.66	430.93	0.010932	3.84	155.03	59.35	0.57
Stura1	276.5	Tr 50	259.0	422.16	426.31	427.13	0.82	427.15	0.84	424.87	426.67	0.007723	2.64	98.24	30.04	0.47
Stura1	276.5	Tr 200	485.0	422.16	428.08	427.13	-0.95	427.15	-0.93	426.03	428.55	0.006320	3.07	168.79	52.21	0.44
Stura1	276.5	Tr 500	558.0	422.16	428.40	427.13	-1.27	427.15	-1.25	426.33	428.92	0.006522	3.26	185.93	53.59	0.46
Stura1	276		Bridge													
Stura1	275.5	Tr 50	259.0	422.15	426.11	427.13	1.02	427.15	1.04	424.87	426.51	0.009387	2.81	92.22	30.04	0.51
Stura1	275.5	Tr 200	485.0	422.15	427.37	427.13	-0.24	427.15	-0.22	426.02	428.06	0.011309	3.70	133.36	45.00	0.58
Stura1	275.5	Tr 500	558.0	422.15	427.61	427.13	-0.48	427.15	-0.46	426.32	428.42	0.012217	3.99	145.02	49.35	0.61
Stura1	275	Tr 50	259.0	420.40	424.41	423.88	-0.53	424.06	-0.35	423.13	424.72	0.009020	2.50	104.74	37.22	0.46
Stura1	275	Tr 200	485.0	420.40	425.54	423.88	-1.66	424.06	-1.48	424.13	425.98	0.009794	3.06	191.77	100.25	0.48
Stura1	275	Tr 500	558.0	420.40	425.85	423.88	-1.97	424.06	-1.79	424.42	426.27	0.009322	3.09	222.58	100.25	0.47
Stura1	274	Tr 50	259.0	420.26	424.17	423.88	-0.29	424.06	-0.11	423.05	424.53	0.010306	2.66	97.72	36.31	0.50
Stura1	274	Tr 200	485.0	420.26	424.92	423.88	-1.04	424.06	-0.86	424.04	425.69	0.017515	3.91	131.32	97.27	0.66
Stura1	274	Tr 500	558.0	420.26	425.13	423.88	-1.25	424.06	-1.07	424.35	425.98	0.018686	4.15	151.75	98.19	0.68
Stura1	273	Tr 50	259.0	419.65	423.21	422.07	-1.14	421.70	-1.51	422.74	423.61	0.010311	3.03	115.41	91.45	0.57
Stura1	273	Tr 200	485.0	419.65	424.42	422.07	-2.35	421.70	-2.72	423.76	424.70	0.005881	2.89	260.68	138.35	0.46
Stura1	273	Tr 500	558.0	419.65	424.77	422.07	-2.70	421.70	-3.07	423.92	425.03	0.004982	2.81	310.71	145.95	0.43
Stura1	272	Tr 50	259.0	418.67	422.60	427.65	5.05	423.15	0.55	421.35	422.97	0.009174	2.68	96.49	35.96	0.52
Stura1	272	Tr 200	485.0	418.67	422.98	427.65	4.67	423.15	0.17	422.55	423.95	0.024089	4.37	111.11	41.26	0.85
Stura1	272	Tr 500	558.0	418.67	423.01	427.65	4.64	423.15	0.14	422.93	424.27	0.031067	4.96	112.54	41.79	0.96
Stura1	271	Tr 50	259.0	415.78	418.97	418.61	-0.36	418.83	-0.14	418.47	419.58	0.022025	3.49	79.52	70.79	0.72
Stura1	271	Tr 200	485.0	415.78	420.57	418.61	-1.96	418.83	-1.74	419.71	420.82	0.006933	2.60	245.60	110.78	0.41
Stura1	271	Tr 500	558.0	415.78	420.99	418.61	-2.38	418.83	-2.16	419.86	421.22	0.005611	2.47	292.72	110.78	0.37

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura1	270.5	Tr 50	259.0	413.76	417.76	419.88	2.12	419.88	2.12	416.45	418.15	0.004707	2.75	94.30	29.90	0.49
Stura1	270.5	Tr 200	485.0	413.76	418.99	419.88	0.89	419.88	0.89	417.59	419.69	0.006060	3.70	131.10	29.97	0.56
Stura1	270.5	Tr 500	558.0	413.76	419.31	419.88	0.57	419.88	0.57	417.90	420.11	0.006507	3.97	140.57	29.98	0.59
Stura1	270		Bridge													
Stura1	269.5	Tr 50	259.0	413.76	417.60	419.88	2.28	419.88	2.28	416.45	418.03	0.005490	2.90	89.44	29.55	0.53
Stura1	269.5	Tr 200	485.0	413.76	418.66	419.88	1.22	419.88	1.22	417.59	419.47	0.007698	4.00	121.10	29.97	0.64
Stura1	269.5	Tr 500	558.0	413.76	418.88	419.88	1.00	419.88	1.00	417.90	419.85	0.008639	4.36	127.90	29.97	0.67
Stura1	269	Tr 50	259.0	412.34	415.67	415.65	-0.02	415.97	0.30	415.67	416.60	0.020792	4.27	60.68	32.67	1.00
Stura1	269	Tr 200	485.0	412.34	416.74	415.65	-1.09	415.97	-0.77	416.74	417.91	0.015678	4.82	108.43	57.30	0.93
Stura1	269	Tr 500	558.0	412.34	417.02	415.65	-1.37	415.97	-1.05	417.02	418.24	0.014580	4.96	125.23	62.12	0.91
Stura1	268	Tr 50	259.0	411.60	415.13	415.06	-0.07	413.15	-1.98	414.74	415.57	0.007882	3.32	111.37	68.57	0.65
Stura1	268	Tr 200	485.0	411.60	416.31	415.06	-1.25	413.15	-3.16	415.55	416.80	0.006000	3.70	203.79	88.60	0.60
Stura1	268	Tr 500	558.0	411.60	416.59	415.06	-1.53	413.15	-3.44	415.76	417.11	0.005850	3.83	230.02	93.51	0.60
Stura1	267	Tr 50	259.0	410.77	414.55	414.65	0.10	414.06	-0.49	413.69	414.96	0.006414	2.84	91.14	37.22	0.58
Stura1	267	Tr 200	485.0	410.77	415.87	414.65	-1.22	414.06	-1.81	414.70	416.34	0.004681	3.15	194.49	101.71	0.52
Stura1	267	Tr 500	558.0	410.77	416.19	414.65	-1.54	414.06	-2.13	415.22	416.67	0.004444	3.23	227.90	108.74	0.51
Stura1	266	Tr 50	259.0	410.19	413.86	413.33	-0.53	413.84	-0.02	413.19	414.51	0.005930	3.57	73.74	31.44	0.70
Stura1	266	Tr 200	485.0	410.19	414.64	413.33	-1.31	413.84	-0.80	414.64	415.84	0.008112	4.96	119.32	70.43	0.85
Stura1	266	Tr 500	558.0	410.19	414.95	413.33	-1.62	413.84	-1.11	414.95	416.19	0.007651	5.10	142.26	78.58	0.84
Stura1	265	Tr 50	259.0	409.72	412.91	413.05	0.14	412.90	-0.01	412.91	414.12	0.013322	4.87	53.21	21.88	1.00
Stura1	265	Tr 200	485.0	409.72	414.14	413.05	-1.09	412.90	-1.24	414.48	415.49	0.009674	5.41	133.76	102.86	0.91
Stura1	265	Tr 500	558.0	409.72	414.27	413.05	-1.22	412.90	-1.37	414.49	415.81	0.010818	5.86	146.90	102.92	0.97
Stura1	264.5	Tr 50	259.0	407.57	410.10	413.82	3.72	413.74	3.64	410.43	411.54	0.022525	5.31	48.77	27.80	1.28
Stura1	264.5	Tr 200	485.0	407.57	412.82	413.82	1.00	413.74	0.92	411.49	413.58	0.004270	3.86	125.70	28.44	0.59
Stura1	264.5	Tr 500	558.0	407.57	413.20	413.82	0.62	413.74	0.54	411.80	414.05	0.004418	4.09	136.51	28.45	0.60
Stura1	264		Bridge													
Stura1	263.5	Tr 50	259.0	407.57	410.43	413.82	3.39	413.74	3.31	410.43	411.45	0.007441	4.48	57.87	28.12	1.00
Stura1	263.5	Tr 200	485.0	407.57	410.79	413.82	3.03	413.74	2.95	411.49	413.37	0.015647	7.12	68.13	28.25	1.46
Stura1	263.5	Tr 500	558.0	407.57	411.05	413.82	2.77	413.74	2.69	411.80	413.84	0.015068	7.39	75.48	28.33	1.45
Stura1	263	Tr 50	259.0	406.31	409.33	419.90	10.57	413.15	3.82	409.56	410.64	0.010035	5.08	50.95	25.88	1.16
Stura1	263	Tr 200	485.0	406.31	410.69	419.90	9.21	413.15	2.46	410.74	412.11	0.007133	5.29	91.67	33.82	1.03
Stura1	263	Tr 500	558.0	406.31	410.81	419.90	9.09	413.15	2.34	411.05	412.53	0.008303	5.81	96.06	34.51	1.11
Stura1	262	Tr 50	259.0	404.70	407.26	424.65	17.39	414.97	7.71	407.80	409.16	0.015193	6.10	42.43	22.17	1.41
Stura1	262	Tr 200	485.0	404.70	408.35	424.65	16.30	414.97	6.62	409.07	410.88	0.013570	7.05	68.78	26.26	1.39
Stura1	262	Tr 500	558.0	404.70	408.71	424.65	15.94	414.97	6.26	409.39	411.28	0.012323	7.09	78.72	27.65	1.34
Stura1	261	Tr 50	259.0	403.72	407.44	420.07	12.63	411.80	4.36	406.60	407.99	0.002735	3.30	78.58	28.46	0.63
Stura1	261	Tr 200	485.0	403.72	408.86	420.07	11.21	411.80	2.94	407.81	409.66	0.002736	3.95	122.63	33.31	0.66

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura1	261	Tr 500	558.0	403.72	409.26	420.07	10.81	411.80	2.54	408.13	410.12	0.002707	4.10	136.16	34.66	0.66
Stura1	260.5	Tr 50	259.0	402.92	406.51	416.10	9.59	409.34	2.83	406.51	407.61	0.006290	4.66	55.64	25.04	1.00
Stura1	260.5	Tr 200	485.0	402.92	407.72	416.10	8.38	409.34	1.62	407.72	409.27	0.005785	5.52	87.88	28.13	1.00
Stura1	260.5	Tr 500	558.0	402.92	408.05	416.10	8.05	409.34	1.29	408.05	409.72	0.005749	5.72	97.48	28.96	1.00
Stura1	260.3	Tr 50	259.0	402.89	405.17	415.24	10.07	409.14	3.97	405.82	407.32	0.015636	6.49	39.94	21.31	1.51
Stura1	260.3	Tr 200	485.0	402.89	406.36	415.24	8.88	409.14	2.78	407.10	409.00	0.012020	7.19	67.45	24.83	1.39
Stura1	260.3	Tr 500	558.0	402.89	406.69	415.24	8.55	409.14	2.45	407.44	409.46	0.011426	7.36	75.77	25.80	1.37
Stura1	260	Tr 50	259.0	402.60	404.08	414.59	10.51	409.44	5.36	404.91	406.83	0.028751	7.34	35.28	25.22	1.98
Stura1	260	Tr 200	485.0	402.60	404.94	414.59	9.65	409.44	4.50	406.06	408.57	0.022233	8.45	57.40	26.75	1.84
Stura1	260	Tr 500	558.0	402.60	405.19	414.59	9.40	409.44	4.25	406.38	409.04	0.020923	8.69	64.19	27.21	1.81
Stura1	259	Tr 50	259.0	402.40	404.15	402.91	-1.24	402.40	-1.75	404.65	405.98	0.013852	6.04	43.82	26.42	1.47
Stura1	259	Tr 200	485.0	402.40	406.67	402.91	-3.76	402.40	-4.27	405.77	407.69	0.002366	4.55	111.10	26.99	0.70
Stura1	259	Tr 500	558.0	402.40	407.10	402.91	-4.19	402.40	-4.70	406.10	408.22	0.002261	4.74	122.86	27.09	0.70
Stura1	258	Tr 50	259.0	402.17	404.56	402.79	-1.77	402.17	-2.39	404.56	405.72	0.005734	4.78	55.06	23.92	0.99
Stura1	258	Tr 200	485.0	402.17	405.77	402.79	-2.98	402.17	-3.60	405.77	407.54	0.005027	5.90	84.22	24.21	1.00
Stura1	258	Tr 500	558.0	402.17	406.12	402.79	-3.33	402.17	-3.95	406.12	408.06	0.004882	6.19	92.62	24.29	1.00
Stura1	257	Tr 50	259.0	401.96	404.11	401.96	-2.15	401.96	-2.15	404.32	405.52	0.007869	5.27	49.65	23.42	1.15
Stura1	257	Tr 200	485.0	401.96	405.26	401.96	-3.30	401.96	-3.30	405.54	407.36	0.006559	6.42	76.82	23.60	1.13
Stura1	257	Tr 500	558.0	401.96	405.60	401.96	-3.64	401.96	-3.64	405.89	407.88	0.006281	6.70	84.77	23.65	1.12
Stura1	256	Tr 50	259.0	401.75	403.81	403.79	-0.02	406.00	2.19	404.09	405.30	0.010848	5.41	47.87	23.28	1.20
Stura1	256	Tr 200	485.0	401.75	404.87	403.79	-1.08	406.00	1.13	405.30	407.15	0.010022	6.69	72.53	23.31	1.21
Stura1	256	Tr 500	558.0	401.75	405.18	403.79	-1.39	406.00	0.82	405.64	407.67	0.009812	7.00	79.75	23.32	1.21
Stura1	255	Tr 50	259.0	401.74	403.74	401.74	-2.00	401.74	-2.00	404.06	405.27	0.009399	5.49	47.64	24.19	1.24
Stura1	255	Tr 200	485.0	401.74	405.21	401.74	-3.47	401.74	-3.47	405.24	406.98	0.005218	5.91	83.55	24.71	1.01
Stura1	255	Tr 500	558.0	401.74	405.56	401.74	-3.82	401.74	-3.82	405.59	407.48	0.004991	6.17	92.29	24.83	1.01
Stura1	254	Tr 50	259.0	401.55	404.14	408.00	3.86	401.55	-2.59	403.39	404.60	0.002183	3.00	86.87	33.71	0.59
Stura1	254	Tr 200	485.0	401.55	405.55	408.00	2.45	401.55	-4.00	404.34	406.22	0.001903	3.64	134.33	33.93	0.58
Stura1	254	Tr 500	558.0	401.55	405.95	408.00	2.05	401.55	-4.40	404.61	406.68	0.001855	3.80	148.02	34.00	0.58
Stura1	253	Tr 50	259.0	401.36	403.43	405.86	2.43	406.29	2.86	403.43	404.45	0.007161	4.48	57.76	28.06	1.00
Stura1	253	Tr 200	485.0	401.36	404.50	405.86	1.36	406.29	1.79	404.50	406.05	0.006740	5.51	87.97	28.19	1.00
Stura1	253	Tr 500	558.0	401.36	404.81	405.86	1.05	406.29	1.48	404.81	406.51	0.006682	5.77	96.63	28.23	1.00
Stura1	252	Tr 50	259.0	401.11	402.72	406.10	3.38	402.74	0.02	403.11	404.25	0.014385	5.49	47.21	30.40	1.41
Stura1	252	Tr 200	485.0	401.11	403.52	406.10	2.58	402.74	-0.78	404.15	405.83	0.013053	6.74	71.94	31.40	1.42
Stura1	252	Tr 500	558.0	401.11	403.74	406.10	2.36	402.74	-1.00	404.43	406.29	0.012867	7.07	78.92	31.68	1.43
Stura1	251	Tr 50	259.0	401.03	402.76	405.50	2.74	405.02	2.26	402.92	403.84	0.009118	4.60	56.36	33.73	1.14
Stura1	251	Tr 200	485.0	401.03	403.27	405.50	2.23	405.02	1.75	403.87	405.47	0.013676	6.57	73.81	34.42	1.43
Stura1	251	Tr 500	558.0	401.03	403.45	405.50	2.05	405.02	1.57	404.14	405.94	0.014161	6.99	79.85	34.66	1.47

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura1	250	Tr 50	259.0	400.85	402.33	403.54	1.21	406.36	4.03	402.65	403.61	0.013132	5.00	51.76	37.05	1.35
Stura1	250	Tr 200	485.0	400.85	402.87	403.54	0.67	406.36	3.49	403.55	405.17	0.016205	6.72	72.21	38.39	1.56
Stura1	250	Tr 500	558.0	400.85	403.03	403.54	0.51	406.36	3.33	403.79	405.62	0.016764	7.14	78.17	38.77	1.61
Stura1	249	Tr 50	259.0	400.63	402.80	404.12	1.32	406.01	3.21	402.44	403.39	0.003772	3.42	75.69	36.40	0.76
Stura1	249	Tr 200	485.0	400.63	404.05	404.12	0.07	406.01	1.96	403.36	404.85	0.002975	3.97	122.16	37.98	0.71
Stura1	249	Tr 500	558.0	400.63	404.41	404.12	-0.29	406.01	1.60	403.61	405.27	0.002785	4.10	137.28	46.54	0.69
Stura1	248	Tr 50	259.0	400.47	402.70	403.43	0.73	406.19	3.49	402.32	403.31	0.003762	3.47	74.65	34.65	0.75
Stura1	248	Tr 200	485.0	400.47	403.93	403.43	-0.50	406.19	2.26	403.27	404.78	0.003086	4.10	120.14	44.77	0.72
Stura1	248	Tr 500	558.0	400.47	404.35	403.43	-0.92	406.19	1.84	403.55	405.21	0.002723	4.14	140.57	52.72	0.68
Stura1	247.5	Tr 50	259.0	400.21	402.59	405.84	3.25	406.22	3.63	402.11	403.17	0.003344	3.37	76.88	33.18	0.71
Stura1	247.5	Tr 200	485.0	400.21	403.77	405.84	2.07	406.22	2.45	403.07	404.66	0.003222	4.18	116.12	33.41	0.72
Stura1	247.5	Tr 500	558.0	400.21	404.11	405.84	1.73	406.22	2.11	403.35	405.08	0.003201	4.38	127.43	33.48	0.72
Stura1	247		Bridge													
Stura1	246.5	Tr 50	259.0	400.21	401.84	400.82	-1.02	400.70	-1.14	402.08	403.06	0.010085	4.89	53.08	33.31	1.23
Stura1	246.5	Tr 200	485.0	400.21	402.67	400.82	-1.85	400.70	-1.97	403.04	404.52	0.008783	6.03	80.82	33.52	1.23
Stura1	246.5	Tr 500	558.0	400.21	402.90	400.82	-2.08	400.70	-2.20	403.31	404.94	0.008553	6.33	88.68	33.58	1.24
Stura1	246	Tr 50	259.0	398.44	399.34	410.28	10.94	403.81	4.47	400.18	402.61	0.061305	8.00	32.36	36.18	2.70
Stura1	246	Tr 200	485.0	398.44	399.93	410.28	10.35	403.81	3.88	401.09	404.09	0.041552	9.04	53.67	36.51	2.38
Stura1	246	Tr 500	558.0	398.44	400.10	410.28	10.18	403.81	3.71	401.34	404.51	0.038470	9.31	59.97	36.60	2.32
Stura1	245	Tr 50	259.0	398.32	399.55	410.50	10.95	402.65	3.10	400.07	401.32	0.022413	5.90	43.93	36.11	1.71
Stura1	245	Tr 200	485.0	398.32	400.13	410.50	10.37	402.65	2.52	400.98	402.98	0.022449	7.48	64.80	36.50	1.79
Stura1	245	Tr 500	558.0	398.32	400.29	410.50	10.21	402.65	2.36	401.24	403.45	0.022207	7.86	70.98	36.62	1.80
Stura1	244	Tr 50	259.0	398.18	400.18	409.08	8.90	402.11	1.93	399.92	400.83	0.004471	3.56	72.66	37.17	0.81
Stura1	244	Tr 200	485.0	398.18	400.26	409.08	8.82	402.11	1.84	400.82	402.36	0.013737	6.40	75.74	37.24	1.43
Stura1	244	Tr 500	558.0	398.18	400.41	409.08	8.67	402.11	1.70	401.09	402.82	0.014529	6.87	81.28	37.37	1.49
Stura1	243	Tr 50	259.0	398.12	400.20	410.45	10.25	402.11	1.91	399.83	400.76	0.003708	3.33	77.88	38.48	0.75
Stura1	243	Tr 200	485.0	398.12	400.19	410.45	10.26	402.11	1.92	400.71	402.17	0.013051	6.23	77.79	38.48	1.40
Stura1	243	Tr 500	558.0	398.12	400.34	410.45	10.11	402.11	1.77	400.96	402.62	0.013903	6.70	83.29	38.61	1.46
Stura1	242	Tr 50	259.0	398.00	400.22	406.38	6.16	401.98	1.76	399.64	400.65	0.002534	2.88	89.88	41.64	0.63
Stura1	242	Tr 200	485.0	398.00	401.37	406.38	5.01	401.98	0.61	400.47	401.99	0.002286	3.51	138.20	42.88	0.62
Stura1	242	Tr 500	558.0	398.00	401.70	406.38	4.68	401.98	0.28	400.71	402.38	0.002232	3.66	152.36	43.24	0.62
Stura1	241	Tr 50	259.0	397.89	400.09	407.61	7.52	401.88	1.79	399.60	400.58	0.002987	3.10	83.67	39.59	0.68
Stura1	241	Tr 200	485.0	397.89	401.20	407.61	6.41	401.88	0.68	400.47	401.93	0.002713	3.77	128.67	41.15	0.68
Stura1	241	Tr 500	558.0	397.89	401.53	407.61	6.08	401.88	0.35	400.72	402.31	0.002644	3.93	142.04	41.60	0.68
Stura1	240	Tr 50	259.0	397.83	399.90	408.71	8.81	401.88	1.98	399.60	400.52	0.004125	3.50	74.09	36.99	0.79
Stura1	240	Tr 200	485.0	397.83	400.92	408.71	7.79	401.88	0.96	400.51	401.87	0.003909	4.32	112.28	38.16	0.80
Stura1	240	Tr 500	558.0	397.83	401.21	408.71	7.50	401.88	0.67	400.76	402.25	0.003829	4.51	123.70	38.50	0.80

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura1	239	Tr 50	259.0	397.68	399.73	407.83	8.10	402.30	2.57	399.47	400.39	0.004368	3.58	72.41	36.37	0.81
Stura1	239	Tr 200	485.0	397.68	400.74	407.83	7.09	402.30	1.56	400.38	401.74	0.004169	4.43	109.47	37.46	0.83
Stura1	239	Tr 500	558.0	397.68	401.03	407.83	6.80	402.30	1.27	400.65	402.12	0.004091	4.63	120.53	37.78	0.83
Stura1	238	Tr 50	259.0	397.57	399.36	401.62	2.26	402.30	2.94	399.36	400.24	0.006963	4.15	62.40	35.67	1.00
Stura1	238	Tr 200	485.0	397.57	400.29	401.62	1.33	402.30	2.01	400.29	401.59	0.006272	5.06	95.79	36.53	1.00
Stura1	238	Tr 500	558.0	397.57	400.54	401.62	1.08	402.30	1.76	400.54	401.98	0.006187	5.30	105.22	36.77	1.00
Stura1	237	Tr 50	259.0	396.40	397.63	401.35	3.72	402.26	4.63	398.33	399.98	0.029985	6.79	38.17	31.70	1.97
Stura1	237	Tr 200	485.0	396.40	398.45	401.35	2.90	402.26	3.81	399.32	401.34	0.019911	7.54	64.36	32.69	1.71
Stura1	237	Tr 500	558.0	396.40	400.71	401.35	0.64	402.26	1.55	399.60	401.50	0.002322	3.95	141.39	35.43	0.63
Stura1	236	Tr 50	259.0	396.36	398.88	408.05	9.17	400.70	1.82	398.30	399.40	0.002850	3.20	80.85	34.27	0.67
Stura1	236	Tr 200	485.0	396.36	400.31	408.05	7.74	400.70	0.39	399.27	401.00	0.002252	3.69	131.35	36.24	0.62
Stura1	236	Tr 500	558.0	396.36	400.71	408.05	7.34	400.70	-0.01	399.55	401.45	0.002158	3.82	145.98	36.57	0.61
Stura1	235	Tr 50	259.0	396.31	398.78	407.00	8.22	401.36	2.58	398.27	399.36	0.003264	3.40	76.27	32.40	0.71
Stura1	235	Tr 200	485.0	396.31	400.16	407.00	6.84	401.36	1.20	399.27	400.96	0.002676	3.96	122.34	34.04	0.67
Stura1	235	Tr 500	558.0	396.31	400.56	407.00	6.44	401.36	0.80	399.56	401.42	0.002776	4.10	135.98	36.93	0.68
Stura1	234	Tr 50	259.0	396.20	398.73	401.60	2.87	401.15	2.42	398.19	399.31	0.003112	3.35	77.21	32.14	0.69
Stura1	234	Tr 200	485.0	396.20	400.13	401.60	1.47	401.15	1.02	399.20	400.92	0.002606	3.93	123.33	33.97	0.66
Stura1	234	Tr 500	558.0	396.20	400.53	401.60	1.07	401.15	0.62	399.49	401.36	0.002705	4.05	137.80	37.49	0.67
Stura1	233	Tr 50	259.0	396.11	398.73	401.45	2.72	400.60	1.87	398.04	399.22	0.002527	3.10	83.48	33.55	0.63
Stura1	233	Tr 200	485.0	396.11	400.15	401.45	1.30	400.60	0.45	399.00	400.83	0.002154	3.66	132.41	35.36	0.60
Stura1	233	Tr 500	558.0	396.11	400.54	401.45	0.91	400.60	0.06	399.31	401.28	0.002180	3.81	146.63	37.21	0.61
Stura1	232	Tr 50	259.0	396.06	398.75	407.01	8.26	400.20	1.45	397.93	399.17	0.002072	2.87	90.28	35.00	0.57
Stura1	232	Tr 200	485.0	396.06	400.19	407.01	6.82	400.20	0.01	398.87	400.79	0.001818	3.43	141.60	36.60	0.56
Stura1	232	Tr 500	558.0	396.06	400.61	407.01	6.40	400.20	-0.41	399.15	401.22	0.001670	3.49	169.61	67.13	0.54
Stura1	231	Tr 50	259.0	395.99	398.75	419.62	20.87	400.40	1.65	397.85	399.14	0.001914	2.78	93.30	35.75	0.55
Stura1	231	Tr 200	485.0	395.99	400.19	419.62	19.43	400.40	0.21	398.80	400.75	0.001696	3.31	146.41	37.76	0.54
Stura1	231	Tr 500	558.0	395.99	400.59	419.62	19.03	400.40	-0.19	399.07	401.20	0.001900	3.45	161.53	38.37	0.54
Stura2	230	Tr 50	434.0	395.10	398.52	418.35	19.83	400.26	1.74	397.30	398.94	0.001765	2.85	152.35	48.15	0.51
Stura2	230	Tr 200	800.0	395.10	400.08	418.35	18.27	400.26	0.18	398.40	400.70	0.001783	3.50	228.65	51.93	0.53
Stura2	230	Tr 500	912.0	395.10	400.53	418.35	17.82	400.26	-0.27	398.69	401.18	0.001766	3.59	259.59	69.35	0.53
Stura2	229	Tr 50	434.0	395.02	397.60	423.27	25.67	400.07	2.47	397.60	398.75	0.007204	4.76	91.25	39.36	1.00
Stura2	229	Tr 200	800.0	395.02	398.78	423.27	24.49	400.07	1.29	398.78	400.49	0.006657	5.79	138.19	40.35	1.00
Stura2	229	Tr 500	912.0	395.02	399.10	423.27	24.17	400.07	0.97	399.10	400.96	0.006532	6.03	151.32	40.62	1.00
Stura2	228	Tr 50	434.0	394.74	396.71	407.37	10.66	399.80	3.09	397.15	398.41	0.014815	5.76	75.31	41.95	1.37
Stura2	228	Tr 200	800.0	394.74	397.63	407.37	9.74	399.80	2.17	398.27	400.14	0.013422	7.02	114.03	42.77	1.37
Stura2	228	Tr 500	912.0	394.74	397.88	407.37	9.49	399.80	1.92	398.57	400.60	0.013144	7.31	124.74	42.99	1.37
Stura2	227	Tr 50	434.0	394.31	396.74	401.54	4.80	399.46	2.72	396.80	397.94	0.007923	4.85	89.43	40.00	1.04
Stura2	227	Tr 200	800.0	394.31	398.38	401.54	3.16	399.46	1.08	397.95	399.72	0.004707	5.14	155.71	40.88	0.84

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura2	227	Tr 500	912.0	394.31	398.87	401.54	2.67	399.46	0.59	398.27	400.24	0.004202	5.19	175.85	41.14	0.80
Stura2	226	Tr 50	434.0	393.54	396.05	400.44	4.39	399.05	3.00	396.32	397.64	0.009831	5.58	77.77	32.86	1.16
Stura2	226	Tr 200	800.0	393.54	397.62	400.44	2.82	399.05	1.43	397.62	399.50	0.006744	6.07	131.82	34.89	1.00
Stura2	226	Tr 500	912.0	393.54	397.97	400.44	2.47	399.05	1.08	397.97	400.02	0.006679	6.33	144.07	35.07	1.00
Stura2	225	Tr 50	434.0	392.76	395.21	403.61	8.40	398.55	3.34	395.70	397.25	0.013242	6.34	68.48	29.33	1.32
Stura2	225	Tr 200	800.0	392.76	396.75	403.61	6.86	398.55	1.80	397.12	399.21	0.009195	6.95	115.11	31.24	1.16
Stura2	225	Tr 500	912.0	392.76	397.98	403.61	5.63	398.55	0.57	397.53	399.75	0.004989	5.90	154.54	32.51	0.86
Stura2	224.5	Tr 50	434.0	392.12	395.91	399.09	3.18	398.11	2.20	395.06	396.71	0.003127	3.96	109.61	30.98	0.67
Stura2	224.5	Tr 200	800.0	392.12	397.75	399.09	1.34	398.11	0.36	396.48	398.92	0.002988	4.79	166.95	31.43	0.66
Stura2	224.5	Tr 500	912.0	392.12	398.23	399.09	0.86	398.11	-0.12	396.84	399.51	0.002994	5.00	182.29	31.48	0.66
Stura2	224		Bridge													
Stura2	223.5	Tr 50	434.0	392.12	395.90	399.09	3.19	398.11	2.21	395.06	396.71	0.003153	3.97	109.32	30.98	0.67
Stura2	223.5	Tr 200	800.0	392.12	397.74	399.09	1.35	398.11	0.37	396.48	398.91	0.003003	4.80	166.66	31.43	0.67
Stura2	223.5	Tr 500	912.0	392.12	398.22	399.09	0.87	398.11	-0.11	396.85	399.50	0.003007	5.01	182.00	31.48	0.67
Stura2	223	Tr 50	434.0	391.94	395.53	405.18	9.65	397.90	2.37	395.09	396.64	0.004762	4.66	93.11	28.05	0.82
Stura2	223	Tr 200	800.0	391.94	397.22	405.18	7.96	397.90	0.68	396.63	398.83	0.004620	5.62	142.34	29.95	0.82
Stura2	223	Tr 500	912.0	391.94	397.69	405.18	7.49	397.90	0.21	397.02	399.42	0.004544	5.83	156.50	30.25	0.82
Stura2	222	Tr 50	434.0	391.70	395.28	401.30	6.02	397.44	2.16	394.98	396.49	0.005533	4.86	89.21	28.15	0.87
Stura2	222	Tr 200	800.0	391.70	396.53	401.30	4.77	397.44	0.91	396.48	398.63	0.006829	6.41	124.71	28.78	0.98
Stura2	222	Tr 500	912.0	391.70	396.91	401.30	4.39	397.44	0.53	396.89	399.21	0.006920	6.72	135.69	29.07	0.99
Stura2	221	Tr 50	434.0	391.52	394.83	405.80	10.97	397.00	2.17	394.83	396.28	0.007134	5.32	81.56	28.19	1.00
Stura2	221	Tr 200	800.0	391.52	396.33	405.80	9.47	397.00	0.67	396.33	398.42	0.006717	6.40	124.95	29.70	1.00
Stura2	221	Tr 500	912.0	391.52	396.73	405.80	9.07	397.00	0.27	396.73	398.99	0.006671	6.66	136.85	30.10	1.00
Stura2	220	Tr 50	434.0	391.05	393.14	400.10	6.96	396.80	3.66	393.91	395.76	0.021554	7.16	60.57	31.68	1.65
Stura2	220	Tr 200	800.0	391.05	394.17	400.10	5.93	396.80	2.63	395.28	397.89	0.018863	8.55	93.57	32.80	1.62
Stura2	220	Tr 500	912.0	391.05	394.45	400.10	5.65	396.80	2.35	395.65	398.46	0.018340	8.87	102.84	33.11	1.61
Stura2	219	Tr 50	434.0	390.74	392.75	405.17	12.42	396.70	3.95	393.48	395.20	0.020526	6.93	62.66	33.49	1.62
Stura2	219	Tr 200	800.0	390.74	393.65	405.17	11.52	396.70	3.05	394.78	397.42	0.020184	8.60	93.06	34.48	1.67
Stura2	219	Tr 500	912.0	390.74	393.90	405.17	11.27	396.70	2.80	395.13	397.99	0.019803	8.95	101.90	34.77	1.67
Stura2	218	Tr 50	434.0	390.26	393.40	400.54	7.14	396.83	3.43	393.40	394.66	0.007250	4.96	87.49	34.63	1.00
Stura2	218	Tr 200	800.0	390.26	395.66	400.54	4.88	396.83	1.17	394.69	396.80	0.003374	4.72	169.33	38.17	0.72
Stura2	218	Tr 500	912.0	390.26	396.26	400.54	4.28	396.83	0.57	395.08	397.40	0.002994	4.74	192.23	38.76	0.68
Stura2	217	Tr 50	434.0	389.73	393.79	398.30	4.51	396.84	3.05	392.57	394.38	0.002116	3.39	128.12	34.60	0.56
Stura2	217	Tr 200	800.0	389.73	395.86	398.30	2.44	396.84	0.98	393.88	396.64	0.001931	3.92	204.32	39.84	0.55
Stura2	217	Tr 500	912.0	389.73	396.44	398.30	1.86	396.84	0.40	394.25	397.26	0.001853	4.00	227.97	41.42	0.54
Stura2	216	Tr 50	434.0	389.62	393.79	404.06	10.27	396.72	2.93	392.45	394.32	0.001926	3.24	133.99	34.98	0.53
Stura2	216	Tr 200	800.0	389.62	395.84	404.06	8.22	396.72	0.88	393.73	396.60	0.001778	3.85	207.55	36.98	0.52

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura2	216	Tr 500	912.0	389.62	396.41	404.06	7.65	396.72	0.31	394.06	397.22	0.001736	3.99	228.84	37.59	0.52
Stura2	215	Tr 50	434.0	389.57	393.25	401.02	7.77	396.60	3.35	392.64	394.22	0.004052	4.35	99.73	28.72	0.75
Stura2	215	Tr 200	800.0	389.57	395.14	401.02	5.88	396.60	1.46	394.08	396.48	0.003892	5.13	156.01	31.96	0.74
Stura2	215	Tr 500	912.0	389.57	395.71	401.02	5.31	396.60	0.89	394.58	397.11	0.003634	5.23	174.42	32.38	0.72
Stura2	214	Tr 50	434.0	389.39	392.54	403.96	11.42	396.47	3.93	392.54	394.03	0.007416	5.39	80.46	26.93	1.00
Stura2	214	Tr 200	800.0	389.39	394.34	403.96	9.62	396.47	2.13	394.05	396.29	0.006232	6.20	129.12	27.89	0.92
Stura2	214	Tr 500	912.0	389.39	394.98	403.96	8.98	396.47	1.49	394.49	396.94	0.005513	6.20	147.19	28.40	0.87
Stura2	213	Tr 50	434.0	388.88	391.26	396.71	5.45	396.30	5.04	391.94	393.63	0.016639	6.81	63.74	29.75	1.49
Stura2	213	Tr 200	800.0	388.88	394.89	396.71	1.82	396.30	1.41	393.33	395.90	0.002492	4.44	180.32	33.95	0.61
Stura2	213	Tr 500	912.0	388.88	395.52	396.71	1.19	396.30	0.78	393.71	396.56	0.002339	4.52	201.71	34.58	0.60
Stura2	212	Tr 50	434.0	388.46	392.58	397.00	4.42	397.66	5.08	391.73	393.44	0.003349	4.13	105.19	28.52	0.69
Stura2	212	Tr 200	800.0	388.46	394.65	397.00	2.35	397.66	3.01	393.21	395.84	0.003030	4.83	165.58	30.47	0.66
Stura2	212	Tr 500	912.0	388.46	395.30	397.00	1.70	397.66	2.36	393.60	396.51	0.003109	4.87	187.38	35.23	0.67
Stura2	211	Tr 50	434.0	388.19	392.23	397.57	5.34	397.44	5.21	391.70	393.34	0.004574	4.67	93.00	26.41	0.79
Stura2	211	Tr 200	800.0	388.19	394.28	397.57	3.29	397.44	3.16	393.28	395.74	0.004008	5.35	149.42	29.06	0.75
Stura2	211	Tr 500	912.0	388.19	394.88	397.57	2.69	397.44	2.56	393.69	396.40	0.003829	5.46	167.03	29.77	0.74
Stura2	210	Tr 50	434.0	388.15	391.80	397.51	5.71	396.40	4.60	391.69	393.25	0.006685	5.33	81.39	25.11	0.95
Stura2	210	Tr 200	800.0	388.15	394.01	397.51	3.50	396.40	2.39	393.32	395.68	0.004718	5.72	139.94	27.34	0.81
Stura2	210	Tr 500	912.0	388.15	394.66	397.51	2.85	396.40	1.74	393.71	396.34	0.004544	5.75	158.64	30.00	0.80
Stura2	209	Tr 50	434.0	388.01	391.89	398.59	6.70	404.18	12.29	391.38	392.94	0.004334	4.55	95.40	28.26	0.79
Stura2	209	Tr 200	800.0	388.01	394.15	398.59	4.44	404.18	10.03	392.87	395.42	0.003122	4.99	160.33	29.08	0.68
Stura2	209	Tr 500	912.0	388.01	394.78	398.59	3.81	404.18	9.40	393.27	396.11	0.002963	5.11	178.62	29.31	0.66
Stura2	208	Tr 50	434.0	387.84	392.05	400.67	8.62	394.99	2.94	390.93	392.76	0.002578	3.74	116.16	30.04	0.61
Stura2	208	Tr 200	800.0	387.84	394.31	400.67	6.36	394.99	0.68	392.35	395.26	0.002192	4.33	184.78	30.64	0.56
Stura2	208	Tr 500	912.0	387.84	394.93	400.67	5.74	394.99	0.06	392.74	395.95	0.002134	4.47	204.03	30.80	0.55
Stura2	207	Tr 50	434.0	387.56	391.94	398.67	6.73	394.99	3.05	390.94	392.67	0.002798	3.80	114.21	30.62	0.63
Stura2	207	Tr 200	800.0	387.56	394.25	398.67	4.42	394.99	0.74	392.33	395.19	0.002215	4.31	185.62	31.19	0.56
Stura2	207	Tr 500	912.0	387.56	394.88	398.67	3.79	394.99	0.11	392.71	395.88	0.002141	4.44	205.37	31.35	0.55
Stura2	206.5	Tr 50	434.0	387.34	391.68	400.10	8.42	394.90	3.22	390.97	392.63	0.003833	4.31	100.71	32.40	0.72
Stura2	206.5	Tr 200	800.0	387.34	393.92	400.10	6.18	394.90	0.98	392.45	395.14	0.003088	4.90	163.11	32.51	0.65
Stura2	206.5	Tr 500	912.0	387.34	394.53	400.10	5.57	394.90	0.38	392.85	395.83	0.003011	5.07	180.05	32.54	0.64
Stura2	206		Bridge													
Stura2	205.5	Tr 50	434.0	387.34	390.38	400.10	9.72	394.90	4.52	390.85	392.43	0.012229	6.34	68.45	31.02	1.26
Stura2	205.5	Tr 200	800.0	387.34	391.46	400.10	8.64	394.90	3.44	392.32	394.84	0.014241	8.15	98.21	32.41	1.38
Stura2	205.5	Tr 500	912.0	387.34	391.76	400.10	8.34	394.90	3.14	392.72	395.50	0.014499	8.57	106.42	32.42	1.40
Stura2	205	Tr 50	434.0	386.92	389.28	396.84	7.56	392.54	3.26	390.18	392.14	0.021041	7.49	57.93	27.36	1.64
Stura2	205	Tr 200	800.0	386.92	390.34	396.84	6.50	392.54	2.20	391.58	394.53	0.020949	9.07	88.19	30.18	1.69

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura2	205	Tr 500	912.0	386.92	390.60	396.84	6.24	392.54	1.94	391.96	395.19	0.020807	9.48	96.19	30.22	1.70
Stura2	204	Tr 50	434.0	386.62	389.25	397.02	7.77	392.75	3.50	389.95	391.74	0.017669	6.98	62.16	28.71	1.52
Stura2	204	Tr 200	800.0	386.62	390.30	397.02	6.72	392.75	2.46	391.40	394.14	0.017624	8.68	92.13	28.91	1.55
Stura2	204	Tr 500	912.0	386.62	390.58	397.02	6.44	392.75	2.17	391.79	394.79	0.017630	9.09	100.33	28.97	1.56
Stura2	203	Tr 50	434.0	386.31	389.25	395.77	6.52	393.05	3.80	389.79	391.49	0.013229	6.63	65.42	24.97	1.31
Stura2	203	Tr 200	800.0	386.31	390.50	395.77	5.27	393.05	2.55	391.33	393.87	0.013596	8.13	98.43	26.63	1.35
Stura2	203	Tr 500	912.0	386.31	390.83	395.77	4.94	393.05	2.22	391.75	394.51	0.013600	8.50	107.35	26.73	1.35
Stura2	202	Tr 50	434.0	385.81	388.71	395.77	7.06	392.69	3.98	389.45	391.25	0.016273	7.05	61.54	25.55	1.45
Stura2	202	Tr 200	800.0	385.81	389.94	395.77	5.83	392.69	2.75	390.95	393.62	0.015819	8.50	94.17	27.36	1.46
Stura2	202	Tr 500	912.0	385.81	390.26	395.77	5.51	392.69	2.43	391.36	394.26	0.015705	8.86	102.89	27.44	1.46
Stura2	201	Tr 50	434.0	385.34	388.25	395.74	7.49	392.66	4.41	389.02	390.96	0.017619	7.30	59.48	24.80	1.50
Stura2	201	Tr 200	800.0	385.34	389.52	395.74	6.22	392.66	3.14	390.59	393.34	0.016658	8.66	92.41	27.08	1.50
Stura2	201	Tr 500	912.0	385.34	389.84	395.74	5.90	392.66	2.82	391.00	393.99	0.016465	9.02	101.11	27.16	1.49
Stura2	200	Tr 50	434.0	384.69	387.66	395.86	8.20	392.49	4.83	388.58	390.65	0.017036	7.65	56.74	20.82	1.48
Stura2	200	Tr 200	800.0	384.69	389.20	395.86	6.66	392.49	3.29	390.29	393.06	0.016681	8.71	91.89	25.90	1.48
Stura2	200	Tr 500	912.0	384.69	389.52	395.86	6.34	392.49	2.97	390.70	393.71	0.017301	9.06	100.69	27.29	1.51
Stura2	199	Tr 50	434.0	384.53	386.73	395.77	9.04	392.43	5.70	387.80	390.16	0.026318	8.20	52.91	26.63	1.86
Stura2	199	Tr 200	800.0	384.53	387.76	395.77	8.01	392.43	4.67	389.26	392.54	0.024859	9.69	82.58	30.55	1.88
Stura2	199	Tr 500	912.0	384.53	388.02	395.77	7.75	392.43	4.41	389.64	393.18	0.024506	10.06	90.69	31.27	1.89
Stura2	198	Tr 50	434.0	384.37	386.17	395.75	9.58	392.40	6.23	387.28	389.81	0.036452	8.45	51.37	32.37	2.14
Stura2	198	Tr 200	800.0	384.37	386.99	395.75	8.76	392.40	5.41	388.49	392.19	0.034373	10.11	79.14	36.16	2.18
Stura2	198	Tr 500	912.0	384.37	387.19	395.75	8.56	392.40	5.21	388.82	392.82	0.034840	10.51	86.78	37.72	2.21
Stura2	197	Tr 50	434.0	384.28	385.82	395.76	9.94	390.06	4.24	386.87	389.27	0.039152	8.23	52.75	36.73	2.19
Stura2	197	Tr 200	800.0	384.28	386.51	395.76	9.25	390.06	3.55	388.00	391.73	0.038446	10.11	79.12	39.51	2.28
Stura2	197	Tr 500	912.0	384.28	386.70	395.76	9.06	390.06	3.36	388.28	392.35	0.038967	10.52	86.69	41.17	2.32
Stura2	196	Tr 50	434.0	383.96	385.36	397.75	12.39	392.41	7.05	386.35	388.72	0.042258	8.12	53.45	40.35	2.25
Stura2	196	Tr 200	800.0	383.96	385.98	397.75	11.77	392.41	6.43	387.44	391.21	0.043450	10.13	78.99	43.34	2.40
Stura2	196	Tr 500	912.0	383.96	386.15	397.75	11.60	392.41	6.26	387.74	391.82	0.043240	10.55	86.46	44.39	2.41
Stura2	195	Tr 50	434.0	383.26	387.17	395.85	8.68	391.68	4.51	385.67	387.47	0.001351	2.44	178.11	53.74	0.43
Stura2	195	Tr 200	800.0	383.26	388.52	395.85	7.33	391.68	3.16	386.68	389.04	0.001541	3.18	251.57	54.73	0.47
Stura2	195	Tr 500	912.0	383.26	389.03	395.85	6.82	391.68	2.65	386.94	389.57	0.001441	3.26	279.47	55.10	0.46
Stura2	194.5	Tr 50	434.0	383.00	387.03	394.10	7.07	386.20	-0.83	385.72	387.44	0.002389	2.83	153.86	50.21	0.51
Stura2	194.5	Tr 200	800.0	383.00	388.31	394.10	5.79	386.20	-2.11	386.82	389.00	0.002648	3.70	217.85	50.43	0.56
Stura2	194.5	Tr 500	912.0	383.00	388.81	394.10	5.29	386.20	-2.61	387.21	389.54	0.002410	3.78	243.45	50.51	0.55
Stura2	194		Bridge													
Stura2	193.5	Tr 50	434.0	382.95	385.67	394.05	8.38	386.15	0.48	385.67	386.75	0.009851	4.59	94.53	44.22	1.00
Stura2	193.5	Tr 200	800.0	382.95	387.96	394.05	6.09	386.15	-1.81	386.77	388.76	0.003326	3.97	202.94	50.38	0.63

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura2	193.5	Tr 500	912.0	382.95	388.54	394.05	5.51	386.15	-2.39	387.16	389.33	0.002813	3.96	231.96	50.47	0.59
Stura2	193	Tr 50	434.0	382.50	386.00	395.00	9.00	384.57	-1.43	384.76	386.43	0.001653	2.91	151.20	48.18	0.50
Stura2	193	Tr 200	800.0	382.50	388.15	395.00	6.85	384.57	-3.58	385.90	388.66	0.001110	3.21	256.08	49.42	0.44
Stura2	193	Tr 500	912.0	382.50	388.70	395.00	6.30	384.57	-4.13	386.21	389.24	0.001056	3.31	283.46	49.65	0.43
Stura2	192	Tr 50	434.0	382.13	386.00	395.00	9.00	386.00	0.00	384.56	386.40	0.001490	2.82	153.87	43.01	0.48
Stura2	192	Tr 200	800.0	382.13	388.11	395.00	6.89	386.00	-2.11	385.69	388.64	0.001123	3.24	249.58	46.55	0.44
Stura2	192	Tr 500	912.0	382.13	388.65	395.00	6.35	386.00	-2.65	385.99	389.22	0.001083	3.36	275.06	46.83	0.43
Stura2	191	Tr 50	434.0	381.92	385.87	395.00	9.13	386.00	0.13	384.52	386.37	0.001811	3.12	138.90	37.97	0.52
Stura2	191	Tr 200	800.0	381.92	387.93	395.00	7.07	386.00	-1.93	385.77	388.60	0.001449	3.64	222.18	41.65	0.49
Stura2	191	Tr 500	912.0	381.92	388.46	395.00	6.54	386.00	-2.46	386.11	389.19	0.001410	3.79	244.38	41.84	0.49
Stura2	190	Tr 50	434.0	381.70	385.69	401.20	15.51	386.25	0.56	384.56	386.33	0.002360	3.54	122.73	34.15	0.60
Stura2	190	Tr 200	800.0	381.70	387.70	401.20	13.50	386.25	-1.45	385.94	388.56	0.001931	4.11	196.03	38.21	0.57
Stura2	190	Tr 500	912.0	381.70	388.22	401.20	12.98	386.25	-1.97	386.30	389.15	0.001875	4.27	215.92	38.58	0.56
Stura2	189	Tr 50	434.0	381.48	385.44	401.20	15.76	386.58	1.14	384.56	386.27	0.003215	4.03	107.59	30.21	0.68
Stura2	189	Tr 200	800.0	381.48	387.36	401.20	13.84	386.58	-0.78	386.07	388.51	0.002823	4.74	169.95	34.62	0.66
Stura2	189	Tr 500	912.0	381.48	387.85	401.20	13.35	386.58	-1.27	386.47	389.09	0.002749	4.93	187.07	34.87	0.66
Stura2	188	Tr 50	434.0	381.26	385.16	390.20	5.04	387.08	1.92	384.59	386.20	0.004217	4.52	96.07	27.79	0.78
Stura2	188	Tr 200	800.0	381.26	386.94	390.20	3.26	387.08	0.14	386.15	388.43	0.004084	5.41	147.90	30.62	0.79
Stura2	188	Tr 500	912.0	381.26	387.39	390.20	2.82	387.08	-0.30	386.56	389.00	0.004038	5.64	161.95	32.08	0.79
Stura2	187	Tr 50	434.0	381.10	385.21	414.89	29.68	387.91	2.70	384.45	386.11	0.003439	4.20	103.28	29.62	0.72
Stura2	187	Tr 200	800.0	381.10	387.06	414.89	27.83	387.91	0.85	385.99	388.31	0.003215	4.95	161.52	33.43	0.72
Stura2	187	Tr 500	912.0	381.10	387.54	414.89	27.35	387.91	0.37	386.40	388.88	0.003190	5.13	177.61	34.41	0.72
Stura2	186	Tr 50	434.0	380.94	384.51	387.06	2.55	387.23	2.72	384.51	386.01	0.006916	5.43	79.93	26.45	1.00
Stura2	186	Tr 200	800.0	380.94	386.12	387.06	0.94	387.23	1.11	386.12	388.19	0.006421	6.37	125.53	30.15	1.00
Stura2	186	Tr 500	912.0	380.94	386.54	387.06	0.52	387.23	0.69	386.54	388.75	0.006327	6.59	138.43	31.11	1.00
Stura2	181	Tr 50	434.0	380.12	382.96	393.01	10.05	381.89	-1.07	383.58	385.30	0.012849	6.80	64.73	26.46	1.35
Stura2	181	Tr 200	800.0	380.12	384.35	393.01	8.66	381.89	-2.46	385.15	387.52	0.010886	7.97	103.00	28.85	1.30
Stura2	181	Tr 500	912.0	380.12	384.73	393.01	8.28	381.89	-2.84	385.57	388.09	0.010437	8.21	114.19	29.51	1.29
Stura2	180	Tr 50	434.0	379.95	382.42	405.64	23.22	388.40	5.98	383.22	385.06	0.017904	7.19	60.38	27.90	1.56
Stura2	180	Tr 200	800.0	379.95	383.55	405.64	22.09	388.40	4.85	384.69	387.27	0.016723	8.55	93.58	31.19	1.58
Stura2	180	Tr 500	912.0	379.95	383.84	405.64	21.80	388.40	4.56	385.08	387.84	0.016469	8.86	102.97	32.06	1.58
Stura2	179	Tr 50	434.0	379.68	383.92	385.70	1.78	385.13	1.21	382.67	384.47	0.002065	3.28	132.35	39.26	0.57
Stura2	179	Tr 200	800.0	379.68	386.11	385.70	-0.41	385.13	-0.98	384.06	386.72	0.001440	3.46	231.76	50.34	0.50
Stura2	179	Tr 500	912.0	379.68	386.68	385.70	-0.98	385.13	-1.55	384.43	387.31	0.001278	3.51	261.53	53.09	0.48
Stura2	178	Tr 50	434.0	379.61	383.86	391.18	7.32	384.00	0.14	382.63	384.44	0.002103	3.38	128.57	36.46	0.57
Stura2	178	Tr 200	800.0	379.61	385.97	391.18	5.21	384.00	-1.97	384.02	386.68	0.001574	3.76	216.68	45.62	0.53
Stura2	178	Tr 500	912.0	379.61	386.54	391.18	4.64	384.00	-2.54	384.39	387.28	0.001474	3.84	243.26	47.48	0.52

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura2	177	Tr 50	434.0	379.47	383.75	391.15	7.40	382.04	-1.71	382.53	384.40	0.002175	3.56	122.25	32.14	0.58
Stura2	177	Tr 200	800.0	379.47	385.69	391.15	5.46	382.04	-3.65	383.95	386.63	0.002027	4.31	187.00	34.82	0.59
Stura2	177	Tr 500	912.0	379.47	386.20	391.15	4.95	382.04	-4.16	384.33	387.22	0.002001	4.49	205.03	35.52	0.59
Stura2	176	Tr 50	434.0	379.41	383.52	379.41	-4.11	388.81	5.29	382.60	384.34	0.002775	4.08	109.75	29.85	0.66
Stura2	176	Tr 200	800.0	379.41	385.31	379.41	-5.90	388.81	3.50	384.09	386.57	0.002782	5.06	165.07	31.84	0.68
Stura2	176	Tr 500	912.0	379.41	385.78	379.41	-6.37	388.81	3.03	384.50	387.15	0.002798	5.30	180.14	32.36	0.69
Stura2	175	Tr 50	434.0	379.29	383.48	391.15	7.67	381.70	-1.78	382.54	384.30	0.002798	4.00	108.62	29.09	0.66
Stura2	175	Tr 200	800.0	379.29	385.27	391.15	5.88	381.70	-3.57	384.03	386.52	0.002766	4.95	162.44	30.93	0.69
Stura2	175	Tr 500	912.0	379.29	385.74	391.15	5.41	381.70	-4.04	384.42	387.11	0.002772	5.18	177.06	31.41	0.69
Stura2	174	Tr 50	434.0	379.21	383.45	385.00	1.55	381.39	-2.06	382.36	384.22	0.002523	3.88	112.38	29.12	0.63
Stura2	174	Tr 200	800.0	379.21	385.23	385.00	-0.23	381.39	-3.84	383.87	386.44	0.002580	4.87	165.79	31.03	0.66
Stura2	174	Tr 500	912.0	379.21	385.70	385.00	-0.70	381.39	-4.31	384.26	387.03	0.002560	5.12	180.46	32.13	0.67
Stura2	173	Tr 50	434.0	379.10	383.42	387.65	4.23	388.75	5.33	382.21	384.14	0.002555	3.76	115.38	28.78	0.60
Stura2	173	Tr 200	800.0	379.10	385.21	387.65	2.44	388.75	3.54	383.71	386.36	0.002903	4.75	168.55	31.18	0.65
Stura2	173	Tr 500	912.0	379.10	385.68	387.65	1.97	388.75	3.07	384.12	386.94	0.002984	4.97	183.60	32.19	0.66
Stura2	172	Tr 50	434.0	378.99	383.44	387.60	4.16	381.00	-2.44	382.01	384.04	0.001870	3.45	126.22	30.71	0.54
Stura2	172	Tr 200	800.0	378.99	385.25	387.60	2.35	381.00	-4.25	383.43	386.24	0.002025	4.42	182.71	31.62	0.58
Stura2	172	Tr 500	912.0	378.99	385.72	387.60	1.88	381.00	-4.72	383.82	386.82	0.002070	4.66	197.68	31.85	0.59
Stura2	171	Tr 50	434.0	378.80	383.17	387.50	4.33	388.45	5.28	382.03	383.93	0.002700	3.87	112.25	28.73	0.62
Stura2	171	Tr 200	800.0	378.80	384.87	387.50	2.63	388.45	3.58	383.57	386.11	0.003080	4.92	162.46	30.21	0.68
Stura2	171	Tr 500	912.0	378.80	385.32	387.50	2.18	388.45	3.13	383.98	386.69	0.003173	5.18	176.01	30.59	0.69
Stura2	170	Tr 50	434.0	378.65	383.28	386.50	3.22	382.70	-0.58	381.55	383.77	0.001505	3.10	141.16	35.10	0.48
Stura2	170	Tr 200	800.0	378.65	385.10	386.50	1.40	382.70	-2.40	382.98	385.88	0.001626	3.94	206.82	36.66	0.52
Stura2	170	Tr 500	912.0	378.65	385.58	386.50	0.92	382.70	-2.88	383.36	386.44	0.001651	4.15	224.38	36.78	0.52
Stura2	169	Tr 50	434.0	378.56	383.22	385.50	2.28	388.83	5.61	381.54	383.73	0.001636	3.17	137.06	33.29	0.50
Stura2	169	Tr 200	800.0	378.56	385.01	385.50	0.49	388.83	3.82	382.99	385.84	0.001862	4.03	198.34	35.15	0.54
Stura2	169	Tr 500	912.0	378.56	385.48	385.50	0.02	388.83	3.35	383.36	386.40	0.001911	4.24	215.13	35.67	0.55
Stura2	168.5	Tr 50	434.0	378.30	383.02	389.50	6.48	389.86	6.84	381.40	383.51	0.001679	3.10	139.94	33.51	0.48
Stura2	168.5	Tr 200	800.0	378.30	384.77	389.50	4.73	389.86	5.09	382.72	385.59	0.001886	4.02	199.20	49.19	0.53
Stura2	168.5	Tr 500	912.0	378.30	385.23	389.50	4.27	389.86	4.63	383.07	386.15	0.001932	4.24	214.88	49.50	0.54
Stura2	168		Bridge													
Stura2	167.5	Tr 50	434.0	378.30	382.83	389.50	6.67	389.86	7.03	381.40	383.37	0.001933	3.25	133.63	33.47	0.52
Stura2	167.5	Tr 200	800.0	378.30	384.37	389.50	5.13	389.86	5.49	382.72	385.30	0.002401	4.28	186.98	48.92	0.59
Stura2	167.5	Tr 500	912.0	378.30	384.73	389.50	4.77	389.86	5.13	383.07	385.79	0.002531	4.57	199.77	49.17	0.61
Stura2	167	Tr 50	434.0	377.83	381.52	390.07	8.55	390.10	8.59	381.52	382.82	0.006787	5.06	85.73	32.95	1.00
Stura2	167	Tr 200	800.0	377.83	382.90	390.07	7.17	390.10	7.20	382.90	384.70	0.006258	5.93	134.82	37.91	1.00
Stura2	167	Tr 500	912.0	377.83	383.28	390.07	6.79	390.10	6.82	383.28	385.18	0.006076	6.10	149.40	39.26	1.00

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura2	166	Tr 50	434.0	377.50	381.03	390.05	9.02	388.78	7.75	380.79	382.09	0.005198	4.56	95.22	34.63	0.88
Stura2	166	Tr 200	800.0	377.50	381.76	390.05	8.29	388.78	7.02	382.12	383.99	0.008547	6.61	121.11	36.15	1.15
Stura2	166	Tr 500	912.0	377.50	382.10	390.05	7.95	388.78	6.68	382.47	384.48	0.008334	6.84	133.34	36.85	1.15
Stura2	165.5	Tr 50	434.0	376.25	380.30	386.80	6.50	386.80	6.50	380.14	381.32	0.006174	4.47	97.09	38.82	0.90
Stura2	165.5	Tr 200	800.0	376.25	381.68	386.80	5.12	386.80	5.12	381.33	383.10	0.005228	5.29	151.15	39.74	0.87
Stura2	165.5	Tr 500	912.0	376.25	382.06	386.80	4.74	386.80	4.74	381.65	383.59	0.005038	5.48	166.49	39.99	0.86
Stura2	165		Bridge													
Stura2	164	Tr 50	434.0	374.52	377.31	380.06	2.75	381.88	4.57	377.32	378.51	0.007105	4.85	89.56	37.75	1.00
Stura2	164	Tr 200	800.0	374.52	378.15	380.06	1.91	381.88	3.73	378.56	380.34	0.009346	6.55	122.17	39.73	1.19
Stura2	164	Tr 500	912.0	374.52	378.37	380.06	1.69	381.88	3.51	378.89	380.84	0.009827	6.96	131.04	40.25	1.23
Stura2	163	Tr 50	434.0	372.80	376.34	379.48	3.14	379.86	3.52	375.73	377.17	0.003511	4.01	108.15	34.83	0.73
Stura2	163	Tr 200	800.0	372.80	378.05	379.48	1.43	379.86	1.81	377.04	379.18	0.003081	4.72	169.44	37.26	0.71
Stura2	163	Tr 500	912.0	372.80	378.48	379.48	1.00	379.86	1.38	377.40	379.71	0.003040	4.90	185.94	37.88	0.71
Stura2	162	Tr 50	434.0	371.15	376.18	383.65	7.47	381.30	5.12	375.16	376.80	0.002450	3.50	124.17	38.33	0.62
Stura2	162	Tr 200	800.0	371.15	378.01	383.65	5.64	381.30	3.29	376.52	378.82	0.002150	3.99	200.71	45.43	0.61
Stura2	162	Tr 500	912.0	371.15	378.48	383.65	5.17	381.30	2.82	376.88	379.34	0.002090	4.09	222.81	47.29	0.60
Stura2	161	Tr 50	434.0	370.65	374.88	380.03	5.15	380.76	5.88	374.88	376.29	0.006731	5.26	82.46	29.01	1.00
Stura2	161	Tr 200	800.0	370.65	376.40	380.03	3.63	380.76	4.36	376.40	378.32	0.006233	6.14	130.28	33.75	1.00
Stura2	161	Tr 500	912.0	370.65	376.79	380.03	3.24	380.76	3.97	376.79	378.84	0.006120	6.34	143.87	34.91	1.00
Stura2	160	Tr 50	434.0	369.81	372.69	380.72	8.03	379.71	7.02	373.37	375.00	0.015327	6.74	64.43	29.85	1.46
Stura2	160	Tr 200	800.0	369.81	373.78	380.72	6.94	379.71	5.93	374.79	377.05	0.015104	8.00	99.96	35.12	1.51
Stura2	160	Tr 500	912.0	369.81	374.06	380.72	6.66	379.71	5.65	375.14	377.57	0.015078	8.30	109.88	36.46	1.53
Stura2	159	Tr 50	434.0	369.20	373.59	379.20	5.61	378.15	4.56	372.23	374.06	0.001708	3.06	141.85	40.53	0.52
Stura2	159	Tr 200	800.0	369.20	375.20	379.20	4.00	378.15	2.95	373.50	375.93	0.001836	3.80	210.69	45.26	0.56
Stura2	159	Tr 500	912.0	369.20	375.60	379.20	3.59	378.15	2.55	373.83	376.41	0.001897	3.97	229.56	47.17	0.58
Stura2	158	Tr 50	434.0	368.72	372.35	382.14	9.79	376.85	4.50	372.35	373.64	0.006752	5.03	86.36	33.26	1.00
Stura2	158	Tr 200	800.0	368.72	373.75	382.14	8.39	376.85	3.10	373.75	375.48	0.006217	5.82	137.40	39.54	1.00
Stura2	158	Tr 500	912.0	368.72	374.11	382.14	8.03	376.85	2.74	374.11	375.95	0.006109	6.00	151.94	41.16	1.00
Stura2	157	Tr 50	434.0	367.80	370.99	381.70	10.71	374.28	3.29	371.39	372.74	0.011504	5.86	74.03	34.12	1.27
Stura2	157	Tr 200	800.0	367.80	372.04	381.70	9.66	374.28	2.24	372.73	374.57	0.012020	7.05	113.52	40.88	1.35
Stura2	157	Tr 500	912.0	367.80	372.30	381.70	9.40	374.28	1.98	373.07	375.04	0.012090	7.33	124.50	42.46	1.37
Stura2	156	Tr 50	434.0	366.59	368.95	382.50	13.55	375.08	6.13	369.60	371.08	0.017283	6.47	67.13	36.78	1.53
Stura2	156	Tr 200	800.0	366.59	369.88	382.50	12.62	375.08	5.20	370.82	372.89	0.016619	7.69	104.09	42.54	1.57
Stura2	156	Tr 500	912.0	366.59	370.12	382.50	12.38	375.08	4.96	371.13	373.36	0.016523	7.97	114.46	44.09	1.58
Stura2	155	Tr 50	434.0	365.03	368.75	375.15	6.40	370.76	2.01	368.75	369.90	0.007031	4.75	91.45	39.52	1.00
Stura2	155	Tr 200	800.0	365.03	369.98	375.15	5.17	370.76	0.78	369.98	371.56	0.006445	5.56	143.79	45.48	1.00
Stura2	155	Tr 500	912.0	365.03	370.30	375.15	4.85	370.76	0.46	370.30	371.99	0.006325	5.75	158.67	47.03	1.00

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura2	154	Tr 50	434.0	364.41	369.27	372.92	3.65	370.30	1.03	367.07	369.46	0.000662	1.94	224.02	64.03	0.33
Stura2	154	Tr 200	800.0	364.41	370.47	372.92	2.45	370.30	-0.17	368.15	370.82	0.000931	2.62	306.74	79.14	0.40
Stura2	154	Tr 500	912.0	364.41	370.96	372.92	1.96	370.30	-0.66	368.42	371.33	0.000844	2.67	345.76	79.30	0.39
Stura2	153.5	Tr 50	505.0	363.50	369.05	369.20	0.15	369.20	0.15	366.67	369.38	0.000892	2.57	196.43	44.12	0.39
Stura2	153.5	Tr 200	901.0	363.50	370.01	369.20	-0.81	369.20	-0.81	367.98	370.70	0.001446	3.70	256.31	74.77	0.51
Stura2	153.5	Tr 500	1032.0	363.50	370.49	369.20	-1.29	369.20	-1.29	368.35	371.21	0.001359	3.81	292.77	75.13	0.50
Stura2	153		Bridge													
Stura2	152.5	Tr 50	505.0	363.50	366.72	369.20	2.48	369.20	2.48	366.67	367.99	0.006440	5.00	101.04	37.95	0.98
Stura2	152.5	Tr 200	901.0	363.50	368.32	369.20	0.88	369.20	0.88	367.98	369.84	0.004717	5.46	165.01	42.07	0.88
Stura2	152.5	Tr 500	1032.0	363.50	368.66	369.20	0.54	369.20	0.54	368.35	370.34	0.004822	5.74	179.72	43.04	0.90
Stura2	152	Tr 50	505.0	362.07	366.32	366.10	-0.22	368.05	1.73	365.86	367.28	0.004110	4.33	116.52	38.42	0.79
Stura2	152	Tr 200	901.0	362.07	368.08	366.10	-1.98	368.05	-0.03	367.15	369.27	0.003171	4.82	186.87	41.59	0.72
Stura2	152	Tr 500	1032.0	362.07	368.41	366.10	-2.31	368.05	-0.36	367.52	369.76	0.003338	5.15	200.85	45.22	0.75
Stura2	151	Tr 50	505.0	361.30	365.28	364.12	-1.16	366.10	0.82	365.28	366.80	0.006808	5.47	92.36	30.15	1.00
Stura2	151	Tr 200	901.0	361.30	366.94	364.12	-2.82	366.10	-0.84	366.94	368.87	0.005477	6.18	150.52	46.20	0.93
Stura2	151	Tr 500	1032.0	361.30	367.50	364.12	-3.38	366.10	-1.40	367.50	369.39	0.004769	6.17	179.20	55.84	0.87
Stura2	150	Tr 50	505.0	361.00	364.27	366.04	1.77	364.33	0.06	364.55	365.91	0.008937	5.67	89.05	35.55	1.14
Stura2	150	Tr 200	901.0	361.00	365.09	366.04	0.95	364.33	-0.76	366.03	367.90	0.011534	7.46	124.10	49.95	1.35
Stura2	150	Tr 500	1032.0	361.00	365.32	366.04	0.72	364.33	-0.99	366.37	368.45	0.011979	7.89	136.16	54.11	1.39
Stura2	149	Tr 50	505.0	360.05	363.93	379.94	16.00	364.91	0.98	363.19	364.67	0.003070	3.79	133.22	43.26	0.69
Stura2	149	Tr 200	901.0	360.05	365.22	379.94	14.72	364.91	-0.31	364.42	366.33	0.003242	4.68	198.86	82.70	0.74
Stura2	149	Tr 500	1032.0	360.05	365.66	379.94	14.28	364.91	-0.75	364.79	366.77	0.002927	4.72	235.33	83.19	0.71
Stura2	148	Tr 50	505.0	359.15	363.98	370.03	6.05	362.15	-1.83	362.49	364.38	0.001296	2.81	190.44	72.39	0.46
Stura2	148	Tr 200	901.0	359.15	365.50	370.03	4.53	362.15	-3.35	363.50	365.97	0.001105	3.18	323.99	96.13	0.45
Stura2	148	Tr 500	1032.0	359.15	365.95	370.03	4.08	362.15	-3.80	363.50	366.42	0.001029	3.22	367.03	96.51	0.44
Stura2	147	Tr 50	505.0	358.40	362.76	369.97	7.21	362.27	-0.49	362.76	364.05	0.006344	5.04	101.08	41.13	0.98
Stura2	147	Tr 200	901.0	358.40	364.06	369.97	5.91	362.27	-1.79	364.06	365.65	0.005201	5.69	166.83	51.97	0.93
Stura2	147	Tr 500	1032.0	358.40	364.39	369.97	5.58	362.27	-2.12	364.39	366.10	0.005152	5.93	183.96	52.57	0.94
Stura2	146	Tr 50	505.0	357.62	359.95	362.00	2.05	362.20	2.25	360.85	362.63	0.021716	7.25	69.69	38.21	1.71
Stura2	146	Tr 200	901.0	357.62	360.87	362.00	1.13	362.20	1.33	361.99	364.34	0.021509	8.26	109.10	48.80	1.76
Stura2	146	Tr 500	1032.0	357.62	361.11	362.00	0.89	362.20	1.09	362.36	364.79	0.021382	8.50	121.46	51.85	1.77
Stura2	145	Tr 50	505.0	357.11	359.76	361.97	2.21	362.05	2.29	360.00	360.98	0.011376	4.89	103.36	63.32	1.22
Stura2	145	Tr 200	901.0	357.11	360.24	361.97	1.73	362.05	1.81	360.90	362.53	0.015934	6.70	134.50	65.92	1.50
Stura2	145	Tr 500	1032.0	357.11	360.40	361.97	1.57	362.05	1.65	361.16	362.98	0.016509	7.12	145.02	66.61	1.54
Stura2	144.5	Tr 50	505.0	355.06	356.76	362.11	5.35	360.17	3.41	357.46	359.16	0.033186	6.86	73.58	59.25	1.97
Stura2	144.5	Tr 200	901.0	355.06	357.44	362.11	4.67	360.17	2.73	358.39	360.59	0.025015	7.86	114.68	60.25	1.82
Stura2	144.5	Tr 500	1032.0	355.06	357.64	362.11	4.47	360.17	2.53	358.66	361.04	0.024074	8.17	126.25	60.52	1.81

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura2	144	Tr 50	505.0	353.34	354.25	370.02	15.77	357.81	3.56	355.31	358.86	0.095960	9.51	53.11	59.04	3.20
Stura2	144	Tr 200	901.0	353.34	354.82	370.02	15.20	357.81	2.99	356.23	360.30	0.061222	10.37	86.87	59.86	2.75
Stura2	144	Tr 500	1032.0	353.34	354.99	370.02	15.03	357.81	2.82	356.49	360.75	0.056091	10.64	97.03	60.10	2.67
Stura2	143	Tr 50	505.0	353.35	354.36	370.03	15.67	357.82	3.46	355.31	358.12	0.068944	8.60	58.75	59.17	2.75
Stura2	143	Tr 200	901.0	353.35	354.92	370.03	15.11	357.82	2.90	356.23	359.78	0.050442	9.77	92.21	59.99	2.52
Stura2	143	Tr 500	1032.0	353.35	355.08	370.03	14.95	357.82	2.74	356.50	360.27	0.047245	10.09	102.31	60.23	2.47
Stura2	142	Tr 50	505.0	352.91	354.73	363.36	8.63	359.12	4.39	355.10	356.27	0.013479	5.49	92.04	52.84	1.33
Stura2	142	Tr 200	901.0	352.91	355.40	363.36	7.96	359.12	3.72	356.11	357.93	0.015076	7.05	127.85	54.38	1.47
Stura2	142	Tr 500	1032.0	352.91	355.60	363.36	7.76	359.12	3.52	356.41	358.43	0.015344	7.45	138.55	54.83	1.50
Stura2	141	Tr 50	505.0	351.54	353.23	362.41	9.18	358.32	5.09	353.89	355.43	0.021236	6.56	76.95	47.83	1.65
Stura2	141	Tr 200	901.0	351.54	354.03	362.41	8.38	358.32	4.29	354.96	357.11	0.018535	7.77	116.00	50.08	1.63
Stura2	141	Tr 500	1032.0	351.54	354.26	362.41	8.15	358.32	4.06	355.26	357.60	0.018164	8.10	127.38	50.71	1.63
Stura2	140	Tr 50	505.0	350.60	354.08	371.13	17.05	357.93	3.85	353.01	354.59	0.002055	3.16	159.58	50.06	0.57
Stura2	140	Tr 200	901.0	350.60	355.52	371.13	15.61	357.93	2.41	354.11	356.27	0.002036	3.85	234.12	53.56	0.59
Stura2	140	Tr 500	1032.0	350.60	355.93	371.13	15.20	357.93	2.00	354.41	356.76	0.002026	4.02	256.70	54.58	0.59
Stura2	139	Tr 50	505.0	350.60	353.16	367.34	14.18	357.56	4.40	353.16	354.36	0.006983	4.84	104.24	43.39	1.00
Stura2	139	Tr 200	901.0	350.60	354.33	367.34	13.01	357.56	3.23	354.33	356.02	0.006361	5.77	156.17	45.87	1.00
Stura2	139	Tr 500	1032.0	350.60	354.66	367.34	12.68	357.56	2.90	354.66	356.50	0.006240	6.01	171.76	46.58	1.00
Stura2	138.5	Tr 50	505.0	349.70	352.88	359.50	6.62	359.50	6.62	351.88	353.40	0.001948	3.18	158.62	52.53	0.57
Stura2	138.5	Tr 200	901.0	349.70	354.31	359.50	5.19	359.50	5.19	352.93	355.09	0.001809	3.93	229.54	52.73	0.58
Stura2	138.5	Tr 500	1032.0	349.70	354.73	359.50	4.77	359.50	4.77	353.23	355.60	0.001769	4.12	250.69	52.78	0.59
Stura2	138		Bridge													
Stura2	137.5	Tr 50	505.0	349.70	352.85	359.50	6.65	359.50	6.65	351.88	353.38	0.002025	3.22	156.79	52.53	0.58
Stura2	137.5	Tr 200	901.0	349.70	354.26	359.50	5.24	359.50	5.24	352.93	355.06	0.001875	3.97	227.11	52.72	0.59
Stura2	137.5	Tr 500	1032.0	349.70	354.68	359.50	4.82	359.50	4.82	353.23	355.56	0.001833	4.16	248.04	52.78	0.60
Stura2	137	Tr 50	505.0	349.69	352.04	357.42	5.38	354.44	2.40	352.04	353.17	0.007226	4.71	107.30	47.27	1.00
Stura2	137	Tr 200	901.0	349.69	353.82	357.42	3.60	354.44	0.62	353.13	354.92	0.003626	4.66	193.49	49.74	0.75
Stura2	137	Tr 500	1032.0	349.69	354.48	357.42	2.94	354.44	-0.04	353.45	355.46	0.002768	4.43	240.59	58.16	0.67
Stura2	136	Tr 50	505.0	348.26	352.31	358.45	6.14	351.61	-0.70	350.53	352.61	0.001013	2.44	207.31	56.45	0.41
Stura2	136	Tr 200	901.0	348.26	354.21	358.45	4.24	351.61	-2.60	351.55	354.62	0.000845	2.83	318.29	60.15	0.39
Stura2	136	Tr 500	1032.0	348.26	354.77	358.45	3.68	351.61	-3.16	351.86	355.21	0.000810	2.93	352.39	61.24	0.39
Stura2	135	Tr 50	505.0	348.03	351.89	361.21	9.32	352.60	0.71	350.73	352.51	0.002246	3.48	145.11	39.43	0.58
Stura2	135	Tr 200	901.0	348.03	353.69	361.21	7.52	352.60	-1.09	351.99	354.52	0.001959	4.06	227.98	48.08	0.56
Stura2	135	Tr 500	1032.0	348.03	354.24	361.21	6.97	352.60	-1.64	352.34	355.11	0.001860	4.19	254.22	48.47	0.56
Stura2	134	Tr 50	505.0	347.97	351.75	363.81	12.06	352.39	0.64	350.75	352.42	0.002535	3.63	139.16	39.68	0.62
Stura2	134	Tr 200	901.0	347.97	353.65	363.81	10.16	352.39	-1.26	352.01	354.44	0.001884	3.99	236.32	54.12	0.56
Stura2	134	Tr 500	1032.0	347.97	354.22	363.81	9.59	352.39	-1.83	352.54	355.03	0.001738	4.06	267.27	54.91	0.55

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura2	133	Tr 50	505.0	347.44	351.10	364.18	13.08	352.12	1.02	350.58	352.14	0.004270	4.50	112.11	33.34	0.78
Stura2	133	Tr 200	901.0	347.44	352.91	364.18	11.27	352.12	-0.79	351.99	354.20	0.003428	5.07	183.88	46.15	0.73
Stura2	133	Tr 500	1032.0	347.44	353.55	364.18	10.63	352.12	-1.43	352.59	354.81	0.002966	5.04	213.76	47.05	0.69
Stura2	132	Tr 50	505.0	347.40	350.96	356.36	5.40	355.60	4.64	350.54	352.06	0.004772	4.66	108.30	32.74	0.82
Stura2	132	Tr 200	901.0	347.40	352.46	356.36	3.90	355.60	3.14	351.93	354.11	0.004798	5.69	158.33	33.96	0.84
Stura2	132	Tr 500	1032.0	347.40	352.90	356.36	3.46	355.60	2.70	352.35	354.70	0.004796	5.95	173.42	34.32	0.85
Stura2	131	Tr 50	505.0	347.39	350.54	356.62	6.08	354.80	4.26	350.54	352.00	0.007199	5.33	94.69	32.38	1.00
Stura2	131	Tr 200	901.0	347.39	351.94	356.62	4.68	354.80	2.86	351.94	354.03	0.006810	6.40	140.87	33.60	1.00
Stura2	131	Tr 500	1032.0	347.39	352.35	356.62	4.27	354.80	2.45	352.35	354.62	0.006782	6.68	154.39	33.95	1.00
Stura2	130	Tr 50	505.0	346.95	349.64	353.08	3.44	352.14	2.50	350.06	351.55	0.011893	6.12	82.55	34.56	1.26
Stura2	130	Tr 200	901.0	346.95	350.71	353.08	2.37	352.14	1.43	351.44	353.56	0.011873	7.48	120.41	36.14	1.31
Stura2	130	Tr 500	1032.0	346.95	351.03	353.08	2.05	352.14	1.11	351.83	354.14	0.012319	7.82	131.96	37.97	1.34
Stura2	129	Tr 50	505.0	347.00	350.59	353.13	2.54	352.19	1.60	349.74	351.26	0.002834	3.64	138.76	42.88	0.65
Stura2	129	Tr 200	901.0	347.00	352.08	353.13	1.05	352.19	0.11	350.92	353.05	0.002812	4.37	206.18	47.33	0.67
Stura2	129	Tr 500	1032.0	347.00	352.50	353.13	0.63	352.19	-0.31	351.31	353.56	0.002751	4.56	226.49	47.97	0.67
Stura2	128	Tr 50	505.0	346.95	350.50	353.08	2.58	352.14	1.64	349.69	351.19	0.002922	3.68	137.40	42.83	0.66
Stura2	128	Tr 200	901.0	346.95	351.99	353.08	1.09	352.14	0.15	350.88	352.98	0.002881	4.41	204.53	47.25	0.68
Stura2	128	Tr 500	1032.0	346.95	352.42	353.08	0.66	352.14	-0.28	351.26	353.49	0.002815	4.59	224.95	47.93	0.68
Stura2	127	Tr 50	505.0	346.72	349.71	352.86	3.15	351.16	1.45	349.69	350.97	0.006780	4.98	101.46	39.49	0.99
Stura2	127	Tr 200	901.0	346.72	350.94	352.86	1.92	351.16	0.22	350.94	352.74	0.006291	5.94	151.58	41.85	1.00
Stura2	127	Tr 500	1032.0	346.72	351.31	352.86	1.55	351.16	-0.15	351.31	353.25	0.006112	6.18	167.43	47.40	0.99
Stura2	126.5	Tr 50	505.0	344.95	350.16	353.00	2.84	351.01	0.85	348.77	350.61	0.001883	2.99	168.96	45.51	0.50
Stura2	126.5	Tr 200	901.0	344.95	351.46	353.00	1.54	351.01	-0.45	349.87	352.25	0.002339	3.95	228.12	45.55	0.56
Stura2	126.5	Tr 500	1032.0	344.95	351.91	353.00	1.09	351.01	-0.90	350.19	352.79	0.002341	4.15	248.93	45.57	0.57
Stura2	126		Bridge													
Stura2	125.5	Tr 50	505.0	344.95	349.73	353.00	3.27	351.01	1.28	348.77	350.31	0.002586	3.38	149.37	45.50	0.60
Stura2	125.5	Tr 200	901.0	344.95	351.20	353.00	1.80	351.01	-0.19	349.87	352.08	0.002753	4.16	216.50	45.54	0.61
Stura2	125.5	Tr 500	1032.0	344.95	349.21	353.00	3.79	351.01	1.80	350.19	352.64	0.018639	8.20	125.82	45.48	1.57
Stura2	125	Tr 50	505.0	344.73	348.80	354.10	5.30	354.49	5.69	348.77	350.07	0.006519	4.98	101.45	39.14	0.99
Stura2	125	Tr 200	901.0	344.73	350.06	354.10	4.04	354.49	4.43	350.06	351.82	0.006099	5.87	153.47	43.42	1.00
Stura2	125	Tr 500	1032.0	344.73	350.43	354.10	3.67	354.49	4.06	350.43	352.32	0.005996	6.08	169.64	44.70	1.00
Stura2	124	Tr 50	505.0	345.10	348.25	354.07	5.82	355.09	6.84	348.25	349.47	0.006819	4.89	103.28	42.56	1.00
Stura2	124	Tr 200	901.0	345.10	349.14	354.07	4.93	355.09	5.95	349.44	351.18	0.008185	6.32	142.58	45.43	1.14
Stura2	124	Tr 500	1032.0	345.10	349.42	354.07	4.65	355.09	5.67	349.80	351.67	0.008270	6.63	155.61	46.35	1.16
Stura2	123.5	Tr 50	505.0	342.71	347.18	349.62	2.44	349.75	2.57	346.28	347.90	0.002816	3.76	134.48	38.24	0.64
Stura2	123.5	Tr 200	901.0	342.71	348.81	349.62	0.81	349.75	0.94	347.51	349.88	0.002762	4.57	197.09	38.35	0.64
Stura2	123.5	Tr 500	1032.0	342.71	349.26	349.62	0.36	349.75	0.49	347.88	350.45	0.002812	4.82	214.28	38.37	0.65

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura2	123		Bridge													
Stura2	122.5	Tr 50	505.0	342.71	345.79	349.62	3.83	349.75	3.96	346.28	347.75	0.013718	6.20	81.45	38.16	1.36
Stura2	122.5	Tr 200	901.0	342.71	346.80	349.62	2.82	349.75	2.95	347.51	349.67	0.012774	7.50	120.08	38.22	1.35
Stura2	122.5	Tr 500	1032.0	342.71	347.10	349.62	2.52	349.75	2.65	347.88	350.24	0.012603	7.85	131.53	38.24	1.35
Stura2	122	Tr 50	505.0	342.58	345.09	354.14	9.05	349.90	4.81	345.40	346.81	0.010465	5.81	86.86	36.26	1.20
Stura2	122	Tr 200	901.0	342.58	346.16	354.14	7.98	349.90	3.74	346.71	348.75	0.010378	7.13	126.43	37.65	1.24
Stura2	122	Tr 500	1032.0	342.58	346.45	354.14	7.69	349.90	3.45	347.09	349.32	0.010509	7.50	137.56	38.04	1.26
Stura2	121	Tr 50	505.0	341.60	343.37	353.70	10.33	348.38	5.01	343.90	345.30	0.017468	6.16	82.01	46.80	1.49
Stura2	121	Tr 200	901.0	341.60	344.08	353.70	9.62	348.38	4.30	344.97	347.18	0.018432	7.80	115.55	47.12	1.59
Stura2	121	Tr 500	1032.0	341.60	344.30	353.70	9.40	348.38	4.08	345.30	347.73	0.018473	8.21	125.70	47.21	1.61
Stura2	120	Tr 50	505.0	340.95	343.48	348.95	5.47	348.15	4.67	343.48	344.65	0.007320	4.80	105.15	44.83	1.00
Stura2	120	Tr 200	901.0	340.95	344.59	348.95	4.36	348.15	3.56	344.59	346.30	0.006724	5.79	155.63	45.54	1.00
Stura2	120	Tr 500	1032.0	340.95	345.08	348.95	3.87	348.15	3.07	344.93	346.80	0.005783	5.80	178.06	45.79	0.94
Stura2	119.7	Tr 50	505.0	339.50	343.48	346.92	3.44	346.30	2.82	341.71	343.82	0.001155	2.58	195.76	49.29	0.41
Stura2	119.7	Tr 200	901.0	339.50	345.29	346.92	1.63	346.30	1.01	342.76	345.80	0.001141	3.16	285.03	49.42	0.42
Stura2	119.7	Tr 500	1032.0	339.50	345.80	346.92	1.12	346.30	0.50	343.07	346.36	0.001156	3.33	310.05	49.46	0.42
Stura2	119.5		Bridge													
Stura2	119.3	Tr 50	505.0	339.50	343.33	346.92	3.59	346.30	2.97	341.71	343.70	0.001310	2.69	188.08	49.28	0.44
Stura2	119.3	Tr 200	901.0	339.50	345.05	346.92	1.87	346.30	1.25	342.76	345.60	0.001303	3.30	273.04	49.41	0.45
Stura2	119.3	Tr 500	1032.0	339.50	345.52	346.92	1.40	346.30	0.78	343.07	346.14	0.001327	3.48	296.43	49.44	0.45
Stura2	119.1	Tr 50	505.0	338.77	343.35	348.08	4.73	346.30	2.95	341.14	343.66	0.000931	2.48	203.89	44.70	0.37
Stura2	119.1	Tr 200	901.0	338.77	345.05	348.08	3.03	346.30	1.25	342.25	345.57	0.001118	3.22	280.00	44.81	0.41
Stura2	119.1	Tr 500	1032.0	338.77	345.51	348.08	2.57	346.30	0.79	342.58	346.11	0.001179	3.43	300.87	44.85	0.42
raccordo	119	Tr 50	650.0	339.21	342.98	347.56	4.58	344.66	1.68	342.28	343.61	0.001986	3.51	185.18	64.32	0.66
raccordo	119	Tr 200	1200.0	339.21	344.89	347.56	2.67	344.66	-0.23	343.42	345.57	0.001272	3.71	333.41	82.32	0.56
raccordo	119	Tr 500	1350.0	339.21	345.44	347.56	2.12	344.66	-0.78	343.73	346.11	0.001087	3.69	378.78	82.37	0.52
raccordo	117	Tr 50	650.0	338.95	342.26	346.48	4.22	344.57	2.31	342.26	343.47	0.004782	4.88	133.13	54.56	1.00
raccordo	117	Tr 200	1200.0	338.95	344.26	346.48	2.22	344.57	0.31	343.49	345.48	0.002526	4.90	245.13	59.06	0.77
raccordo	117	Tr 500	1350.0	338.95	345.19	346.48	1.29	344.57	-0.62	343.87	346.06	0.001469	4.22	338.08	77.80	0.60
raccordo	116	Tr 50	650.0	338.64	341.49	346.12	4.63	344.51	3.02	341.91	343.30	0.008606	5.96	109.06	51.46	1.31
raccordo	116	Tr 200	1200.0	338.64	344.26	346.12	1.86	344.51	0.25	343.20	345.42	0.002058	4.77	251.71	51.67	0.69
raccordo	116	Tr 500	1350.0	338.64	345.05	346.12	1.07	344.51	-0.54	343.50	346.02	0.001493	4.44	317.44	64.26	0.60
raccordo	115	Tr 50	650.0	338.28	341.75	345.65	3.90	344.40	2.65	341.75	343.07	0.004822	5.09	127.73	48.18	1.00
raccordo	115	Tr 200	1200.0	338.28	344.02	345.65	1.63	344.40	0.38	343.09	345.32	0.002330	5.05	237.43	48.47	0.73
raccordo	115	Tr 500	1350.0	338.28	344.82	345.65	0.83	344.40	-0.42	343.40	345.95	0.001731	4.75	294.60	59.33	0.64
raccordo	114.1	Tr 50	650.0	337.50	341.93	345.00	3.07	344.41	2.48	340.95	342.77	0.001956	4.06	160.13	47.58	0.65
raccordo	114.1	Tr 200	1200.0	337.50	344.04	345.00	0.96	344.41	0.37	342.46	345.26	0.001805	4.89	245.41	47.67	0.63

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
raccordo	114.1	Tr 500	1350.0	337.50	344.79	345.00	0.21	344.41	-0.38	342.82	345.91	0.001517	4.76	298.77	67.24	0.58
raccordo	114 Sez. 14 - ponte		Bridge													
raccordo	113.9	Tr 50	650.0	337.50	340.38	345.00	4.62	344.41	4.03	340.95	342.64	0.009273	6.66	97.64	47.51	1.37
raccordo	113.9	Tr 200	1200.0	337.50	343.05	345.00	1.95	344.41	1.36	342.46	344.79	0.003091	5.84	205.53	47.63	0.83
raccordo	113.9	Tr 500	1350.0	337.50	343.12	345.00	1.88	344.41	1.29	342.82	345.26	0.003752	6.48	208.35	47.63	0.91
raccordo	113	Tr 50	650.0	337.72	341.38	344.45	3.07	342.94	1.56	340.81	342.27	0.002666	4.16	156.18	48.92	0.74
raccordo	113	Tr 200	1200.0	337.72	343.40	344.45	1.05	342.94	-0.46	342.14	344.52	0.002139	4.70	258.41	56.68	0.66
raccordo	113	Tr 500	1350.0	337.72	343.61	344.45	0.84	342.94	-0.67	342.46	344.91	0.002378	5.07	270.21	56.70	0.70
stura 3	112	Tr 50	662.0	337.75	341.03	344.60	3.57	343.34	2.31	340.27	341.70	0.001942	3.63	182.55	58.54	0.66
stura 3	112	Tr 200	1270.0	337.75	343.17	344.60	1.43	343.34	0.17	341.56	344.03	0.001364	4.12	308.23	59.05	0.58
stura 3	112	Tr 500	1367.0	337.75	343.46	344.60	1.14	343.34	-0.12	341.74	344.34	0.001308	4.17	335.03	65.41	0.57
stura 3	111	Tr 50	662.0	337.81	340.86	345.08	4.22	342.89	2.03	340.35	341.62	0.002515	3.87	171.06	61.17	0.74
stura 3	111	Tr 200	1270.0	337.81	343.13	345.08	1.95	342.89	-0.24	341.59	343.98	0.001377	4.08	311.15	62.10	0.58
stura 3	111	Tr 500	1367.0	337.81	343.42	345.08	1.66	342.89	-0.53	341.78	344.30	0.001335	4.16	328.84	62.13	0.58
stura 3	110	Tr 50	662.0	337.74	340.31	345.69	5.38	344.60	4.29	340.31	341.51	0.004859	4.85	136.54	56.77	1.00
stura 3	110	Tr 200	1270.0	337.74	342.93	345.69	2.77	344.60	1.67	341.62	343.94	0.001723	4.46	284.92	56.89	0.64
stura 3	110	Tr 500	1367.0	337.74	343.20	345.69	2.49	344.60	1.40	341.81	344.25	0.001689	4.55	300.57	56.91	0.63
stura 3	109	Tr 50	662.0	336.55	339.20	345.98	6.78	345.90	6.70	339.79	341.30	0.013992	6.42	103.10	55.79	1.51
stura 3	109	Tr 200	1270.0	336.55	343.06	345.98	2.92	345.90	2.84	341.10	343.84	0.001333	3.92	324.01	57.73	0.53
stura 3	109	Tr 500	1367.0	336.55	343.34	345.98	2.64	345.90	2.56	341.29	344.16	0.001329	4.02	339.94	57.81	0.53
stura 3	108.5		Bridge													
stura 3	108	Tr 50	662.0	337.10	339.63	345.98	6.35	345.90	6.27	340.04	341.41	0.010049	5.91	111.97	53.12	1.30
stura 3	108	Tr 200	1270.0	337.10	340.68	345.98	5.30	345.90	5.22	341.40	343.60	0.010030	7.57	167.84	53.30	1.36
stura 3	108	Tr 500	1367.0	337.10	342.40	345.98	3.58	345.90	3.50	341.61	343.81	0.002911	5.27	259.60	53.59	0.76
stura 3	107	Tr 50	662.0	336.70	339.14	343.47	4.33	345.51	6.37	339.69	341.26	0.009675	6.45	102.58	47.33	1.40
stura 3	107	Tr 200	1270.0	336.70	340.44	343.47	3.03	345.51	5.07	341.17	343.48	0.007922	7.72	164.41	47.62	1.33
stura 3	107	Tr 500	1367.0	336.70	340.46	343.47	3.01	345.51	5.05	341.38	343.94	0.009002	8.26	165.43	47.62	1.42
stura 3	106	Tr 50	662.0	336.70	338.87	343.47	4.60	345.12	6.25	339.51	341.15	0.011712	6.69	98.91	50.14	1.52
stura 3	106	Tr 200	1270.0	336.70	342.10	343.47	1.37	345.12	3.02	340.93	343.29	0.001958	4.84	262.31	51.06	0.68
stura 3	106	Tr 500	1367.0	336.70	342.45	343.47	1.02	345.12	2.67	341.14	343.66	0.001847	4.88	280.38	51.16	0.67
stura 3	105	Tr 50	662.0	336.60	338.84	343.16	4.32	344.73	5.89	339.46	341.03	0.012056	6.57	100.81	53.90	1.53
stura 3	105	Tr 200	1270.0	336.60	342.20	343.16	0.96	344.73	2.53	340.81	343.23	0.001651	4.48	283.39	54.52	0.63
stura 3	105	Tr 500	1367.0	336.60	342.56	343.16	0.60	344.73	2.17	341.01	343.60	0.001558	4.51	302.79	54.59	0.61
stura 3	104	Tr 50	662.0	336.40	338.51	343.06	4.55	343.78	5.27	339.19	340.76	0.012900	6.64	99.68	54.60	1.57
stura 3	104	Tr 200	1270.0	336.40	342.35	343.06	0.71	343.78	1.43	340.48	343.12	0.001162	3.88	327.51	60.29	0.53
stura 3	104	Tr 500	1367.0	336.40	342.71	343.06	0.35	343.78	1.07	340.66	343.49	0.001104	3.92	349.05	60.36	0.52

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
stura 3	103	Tr 50	662.0	336.20	339.83	342.94	3.11	343.41	3.58	339.16	340.54	0.002220	3.74	176.93	59.86	0.69
stura 3	103	Tr 200	1270.0	336.20	342.32	342.94	0.62	343.41	1.09	340.44	343.09	0.001168	3.88	327.15	60.48	0.53
stura 3	103	Tr 500	1367.0	336.20	342.68	342.94	0.26	343.41	0.73	340.64	343.46	0.001107	3.92	348.94	60.54	0.52
stura 3	102	Tr 50	662.0	335.90	339.89	342.82	2.93	343.23	3.34	338.77	340.44	0.001434	3.28	201.83	59.66	0.57
stura 3	102	Tr 200	1270.0	335.90	342.36	342.82	0.46	343.23	0.87	340.11	343.03	0.000936	3.63	349.44	60.12	0.48
stura 3	102	Tr 500	1367.0	335.90	342.72	342.82	0.10	343.23	0.51	340.29	343.41	0.000901	3.68	370.98	60.19	0.47
stura 3	101	Tr 50	662.0	335.70	339.80	342.70	2.90	342.87	3.07	338.68	340.40	0.001497	3.44	192.36	53.45	0.58
stura 3	101	Tr 200	1270.0	335.70	342.20	342.70	0.50	342.87	0.67	340.07	342.99	0.001109	3.95	321.27	53.94	0.52
stura 3	101	Tr 500	1367.0	335.70	342.55	342.70	0.15	342.87	0.32	340.26	343.37	0.001077	4.02	340.19	54.01	0.51
stura 3	100	Tr 50	662.0	335.40	339.39	342.24	2.85	342.62	3.23	338.57	340.30	0.002211	4.23	156.60	41.26	0.69
stura 3	100	Tr 200	1270.0	335.40	341.50	342.24	0.74	342.62	1.12	340.20	342.88	0.002077	5.20	244.30	41.79	0.69
stura 3	100	Tr 500	1367.0	335.40	341.82	342.24	0.42	342.62	0.80	340.43	343.26	0.002052	5.31	257.52	41.83	0.68
stura 3	99	Tr 50	662.0	335.18	338.92	342.21	3.29	342.52	3.60	338.60	340.21	0.003568	5.03	131.55	38.05	0.86
stura 3	99	Tr 200	1270.0	335.18	340.36	342.21	1.85	342.52	2.16	340.31	342.72	0.004470	6.81	186.56	38.23	0.98
stura 3	99	Tr 500	1367.0	335.18	340.55	342.21	1.66	342.52	1.97	340.55	343.09	0.004603	7.05	193.92	38.25	1.00
stura 3	98	Tr 50	662.0	335.15	338.87	341.09	2.22	341.85	2.98	338.46	340.08	0.003345	4.87	135.93	38.71	0.83
stura 3	98	Tr 200	1270.0	335.15	340.34	341.09	0.75	341.85	1.51	340.16	342.55	0.004170	6.58	193.00	39.08	0.95
stura 3	98	Tr 500	1367.0	335.15	340.54	341.09	0.55	341.85	1.31	340.40	342.90	0.004271	6.80	200.96	39.13	0.96
stura 3	97	Tr 50	662.0	335.08	338.76	340.92	2.16	341.80	3.04	338.36	339.93	0.003399	4.79	138.27	41.12	0.83
stura 3	97	Tr 200	1270.0	335.08	340.34	340.92	0.58	341.80	1.46	340.03	342.31	0.003739	6.21	204.53	42.52	0.90
stura 3	97	Tr 500	1367.0	335.08	340.58	340.92	0.34	341.80	1.22	340.26	342.65	0.003748	6.37	214.50	42.73	0.91
stura 3	96	Tr 50	662.0	335.05	338.31	340.80	2.49	340.93	2.62	338.31	339.78	0.004777	5.35	123.63	42.07	1.00
stura 3	96	Tr 200	1270.0	335.05	339.92	340.80	0.88	340.93	1.01	339.92	342.16	0.004468	6.63	191.67	42.61	1.00
stura 3	96	Tr 500	1367.0	335.05	340.15	340.80	0.65	340.93	0.78	340.15	342.50	0.004439	6.79	201.47	42.69	1.00
stura 3	95	Tr 50	662.0	334.65	337.61	340.60	2.99	340.88	3.27	337.93	339.41	0.006873	5.94	111.39	43.96	1.19
stura 3	95	Tr 200	1270.0	334.65	340.07	340.60	0.53	340.88	0.81	339.48	341.76	0.002989	5.77	220.13	44.50	0.83
stura 3	95	Tr 500	1367.0	334.65	340.33	340.60	0.27	340.88	0.55	339.71	342.10	0.002959	5.90	231.69	44.55	0.83
stura 3	94	Tr 50	662.0	334.43	338.10	340.08	1.98	340.55	2.45	337.61	339.16	0.002978	4.57	144.75	42.71	0.79
stura 3	94	Tr 200	1270.0	334.43	339.99	340.08	0.09	340.55	0.56	339.19	341.60	0.002747	5.62	226.08	43.03	0.78
stura 3	94	Tr 500	1367.0	334.43	340.27	340.08	-0.19	340.55	0.28	339.43	341.93	0.002694	5.73	242.33	46.46	0.78
stura 3	93	Tr 50	662.0	334.17	338.01	339.59	1.58	340.53	2.52	337.41	339.05	0.002731	4.50	147.20	41.03	0.76
stura 3	93	Tr 200	1270.0	334.17	339.87	339.59	-0.28	340.53	0.66	339.04	341.50	0.002717	5.66	228.01	44.76	0.78
stura 3	93	Tr 500	1367.0	334.17	340.08	339.59	-0.49	340.53	0.45	339.28	341.82	0.002782	5.85	237.49	44.78	0.79
stura 3	92	Tr 50	662.0	333.35	338.15	338.07	-0.08	339.84	1.69	336.72	338.83	0.001403	3.63	182.64	44.06	0.55
stura 3	92	Tr 200	1270.0	333.35	340.06	338.07	-1.99	339.84	-0.22	338.36	341.24	0.001601	4.82	267.13	46.00	0.62
stura 3	92	Tr 500	1367.0	333.35	340.29	338.07	-2.22	339.84	-0.45	338.59	341.56	0.001648	5.01	277.62	47.33	0.63
stura 3	91.5	Tr 50	662.0	332.97	338.07	337.74	-0.33	339.70	1.63	336.59	338.79	0.001435	3.76	176.38	40.07	0.56
stura 3	91.5	Tr 200	1270.0	332.97	339.80	337.74	-2.06	339.70	-0.10	338.33	341.19	0.001893	5.23	245.88	40.54	0.67

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
stura 3	91.5	Tr 500	1367.0	332.97	339.98	337.74	-2.24	339.70	-0.28	338.57	341.50	0.001994	5.47	253.23	40.54	0.69
stura 3	91	Tr 50	662.0	332.89	337.75	338.00	0.25	338.40	0.65	336.63	338.73	0.002037	4.36	152.94	51.48	0.66
stura 3	91	Tr 200	1270.0	332.89	340.28	338.00	-2.28	338.40	-1.88	339.16	340.93	0.001028	4.01	464.48	138.04	0.50
stura 3	91	Tr 500	1367.0	332.89	340.57	338.00	-2.57	338.40	-2.17	339.34	341.20	0.000975	4.01	503.47	138.62	0.49
stura 3	90.5	Tr 50	662.0	332.88	336.83	337.85	1.02	338.35	1.52	336.83	338.56	0.004844	5.84	113.37	32.47	1.00
stura 3	90.5	Tr 200	1270.0	332.88	339.65	337.85	-1.80	338.35	-1.30	339.24	340.84	0.001989	5.18	324.54	101.35	0.67
stura 3	90.5	Tr 500	1367.0	332.88	340.07	337.85	-2.22	338.35	-1.72	339.43	341.13	0.001693	4.98	376.46	108.46	0.63
stura 3	90	Tr 50	662.0	332.75	336.29	337.81	1.52	340.12	3.83	336.68	338.44	0.006901	6.50	101.85	33.24	1.19
stura 3	90	Tr 200	1270.0	332.75	339.81	337.81	-2.00	340.12	0.31	339.15	340.74	0.001527	4.63	374.59	117.94	0.61
stura 3	90	Tr 500	1367.0	332.75	340.19	337.81	-2.38	340.12	-0.07	339.33	341.04	0.001349	4.50	420.93	124.74	0.57
stura 3	89.1	Tr 50	662.0	332.75	335.47	337.68	2.21	338.62	3.15	336.14	337.96	0.009927	6.98	94.80	37.68	1.41
stura 3	89.1	Tr 200	1270.0	332.75	339.69	337.68	-2.01	338.62	-1.07	337.94	340.66	0.001295	4.48	335.35	95.60	0.57
stura 3	89.1	Tr 500	1367.0	332.75	339.98	337.68	-2.30	338.62	-1.36	338.27	340.96	0.001249	4.53	363.44	97.04	0.57
stura 3	89	Tr 50	662.0	332.75	337.16	336.56	-0.60	338.62	1.46	335.98	337.75	0.001391	3.42	198.77	64.44	0.58
stura 3	89	Tr 200	1270.0	332.75	339.95	336.56	-3.39	338.62	-1.33	337.50	340.54	0.000705	3.50	399.58	81.23	0.45
stura 3	89	Tr 500	1367.0	332.75	340.22	336.56	-3.66	338.62	-1.60	337.70	340.85	0.000699	3.59	422.33	81.67	0.45
stura 3	88	Tr 50	662.0	332.67	337.10	336.13	-0.97	336.61	-0.49	335.77	337.69	0.001238	3.43	204.68	72.19	0.55
stura 3	88	Tr 200	1270.0	332.67	339.91	336.13	-3.78	336.61	-3.30	337.43	340.51	0.000654	3.56	413.06	75.37	0.44
stura 3	88	Tr 500	1367.0	332.67	340.18	336.13	-4.05	336.61	-3.57	337.63	340.81	0.000657	3.67	433.73	75.61	0.44
stura 3	87	Tr 50	662.0	332.54	336.71	335.43	-1.28	335.52	-1.19	335.87	337.57	0.001892	4.16	173.44	66.93	0.67
stura 3	87	Tr 200	1270.0	332.54	339.82	335.43	-4.39	335.52	-4.30	337.73	340.46	0.000734	3.83	422.90	83.62	0.46
stura 3	87	Tr 500	1367.0	332.54	340.10	335.43	-4.67	335.52	-4.58	337.93	340.77	0.000731	3.92	446.41	83.91	0.46
stura 3	86	Tr 50	703.0	331.09	336.63	334.82	-1.81	336.30	-0.33	335.79	337.46	0.001944	4.05	178.27	63.70	0.69
stura 3	86	Tr 200	1380.0	331.09	339.72	334.82	-4.90	336.30	-3.42	337.60	340.42	0.000769	3.86	422.18	82.03	0.48
stura 3	86	Tr 500	1458.0	331.09	340.04	334.82	-5.22	336.30	-3.74	337.76	340.73	0.000724	3.87	448.06	82.44	0.47
stura 3	85.6	Tr 50	703.0	331.05	336.66	334.91	-1.75	335.15	-1.51	335.45	337.38	0.001346	3.77	196.08	58.59	0.59
stura 3	85.6	Tr 200	1380.0	331.05	339.68	334.91	-4.77	335.15	-4.53	337.24	340.39	0.000708	3.92	419.16	82.76	0.46
stura 3	85.6	Tr 500	1458.0	331.05	340.00	334.91	-5.09	335.15	-4.85	337.43	340.71	0.000669	3.92	445.69	83.54	0.46
stura 3	85.1	Tr 50	703.0	331.00	336.66	335.00	-1.66	334.00	-2.66	335.08	337.32	0.001063	3.65	208.72	54.65	0.53
stura 3	85.1	Tr 200	1380.0	331.00	339.53	335.00	-4.53	334.00	-5.53	336.94	340.36	0.000766	4.21	398.61	77.83	0.48
stura 3	85.1	Tr 500	1458.0	331.00	339.84	335.00	-4.84	334.00	-5.84	337.10	340.67	0.000737	4.24	422.95	80.09	0.48
stura 3	85		Bridge													
stura 3	84.9	Tr 50	703.0	330.70	333.87	334.70	0.83	333.70	-0.17	334.78	336.86	0.011578	7.66	91.84	38.35	1.56
stura 3	84.9	Tr 200	1380.0	330.70	335.24	334.70	-0.54	333.70	-1.54	336.64	339.77	0.010186	9.48	151.32	47.82	1.56
stura 3	84.9	Tr 500	1458.0	330.70	335.37	334.70	-0.67	333.70	-1.67	336.80	340.06	0.010104	9.66	157.62	48.57	1.57
stura 3	84	Tr 50	703.0	329.28	333.11	335.23	2.12	334.98	1.87	333.68	335.30	0.011347	6.55	107.25	41.29	1.30
stura 3	84	Tr 200	1380.0	329.28	334.20	335.23	1.03	334.98	0.78	335.41	338.18	0.015381	8.83	156.30	48.12	1.56

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
stura 3	84	Tr 500	1458.0	329.28	334.30	335.23	0.93	334.98	0.68	335.59	338.47	0.015695	9.04	161.22	48.58	1.59
stura 3	83	Tr 50	703.0	327.94	330.84	341.25	10.41	339.89	9.05	331.61	333.42	0.015959	7.11	98.87	43.82	1.51
stura 3	83	Tr 200	1380.0	327.94	332.10	341.25	9.15	339.89	7.79	333.30	336.04	0.015424	8.80	156.84	48.74	1.57
stura 3	83	Tr 500	1458.0	327.94	332.22	341.25	9.03	339.89	7.67	333.47	336.30	0.015389	8.95	162.91	49.22	1.57
stura 3	82	Tr 50	703.0	325.50	328.14	337.50	9.36	339.92	11.78	328.99	330.93	0.017251	7.40	94.99	42.06	1.57
stura 3	82	Tr 200	1380.0	325.50	332.59	337.50	4.91	339.92	7.33	330.69	333.54	0.001799	4.31	320.50	56.19	0.58
stura 3	82	Tr 500	1458.0	325.50	333.27	337.50	4.23	339.92	6.65	330.85	334.11	0.001437	4.06	358.73	57.50	0.52
stura 3	81	Tr 50	703.0	324.17	328.16	332.07	3.91	339.98	11.82	328.16	329.46	0.006580	5.05	139.16	53.32	1.00
stura 3	81	Tr 200	1380.0	324.17	332.71	332.07	-0.64	339.98	7.27	329.75	333.18	0.000847	3.04	455.00	83.94	0.40
stura 3	81	Tr 500	1458.0	324.17	333.40	332.07	-1.33	339.98	6.58	329.90	333.81	0.000661	2.86	514.84	90.91	0.36
stura 3	80.5	Tr 50	703.0	323.20	328.38	330.16	1.78	331.50	3.12	326.88	328.94	0.001690	3.31	212.67	54.51	0.53
stura 3	80.5	Tr 200	1380.0	323.20	332.70	330.16	-2.54	331.50	-1.20	328.51	333.13	0.000601	2.91	473.61	63.00	0.34
stura 3	80.5	Tr 500	1458.0	323.20	333.37	330.16	-3.21	331.50	-1.87	328.69	333.78	0.000517	2.83	515.91	63.00	0.32
stura 3	80		Bridge													
stura 3	79.7	Tr 50	703.0	323.20	326.12	330.16	4.04	331.50	5.38	326.88	328.72	0.017341	7.14	98.45	46.37	1.56
stura 3	79.7	Tr 200	1380.0	323.20	331.99	330.16	-1.83	331.50	-0.49	328.51	332.52	0.000812	3.22	429.17	63.00	0.39
stura 3	79.7	Tr 500	1458.0	323.20	332.56	330.16	-2.40	331.50	-1.06	328.69	333.06	0.000709	3.14	465.02	63.00	0.37
stura 3	79.5	Tr 50	703.0	322.25	328.04	330.40	2.36	325.16	-2.88	325.18	328.20	0.000401	1.80	391.22	84.27	0.27
stura 3	79.5	Tr 200	1380.0	322.25	332.22	330.40	-1.82	325.16	-7.06	326.33	332.39	0.000194	1.82	763.00	92.78	0.20
stura 3	79.5	Tr 500	1458.0	322.25	332.78	330.40	-2.38	325.16	-7.62	326.45	332.94	0.000177	1.80	814.64	93.31	0.19
stura 3	79		Bridge													
stura 3	78.5	Tr 50	703.0	322.25	324.07	330.40	6.33	325.16	1.09	325.18	327.80	0.042959	8.55	82.19	59.14	2.32
stura 3	78.5	Tr 200	1380.0	322.25	324.63	330.40	5.77	325.16	0.53	326.33	331.63	0.061396	11.72	117.78	69.03	2.86
stura 3	78.5	Tr 500	1458.0	322.25	324.67	330.40	5.73	325.16	0.49	326.45	332.13	0.064307	12.09	120.55	69.74	2.94
stura 3	78	Tr 50	703.0	321.20	326.06	334.95	8.89	323.10	-2.96	324.28	326.25	0.000595	2.03	376.06	109.94	0.32
stura 3	78	Tr 200	1380.0	321.20	323.61	334.95	11.34	323.10	-0.51	325.27	330.95	0.055502	12.07	118.60	81.49	2.78
stura 3	78	Tr 500	1458.0	321.20	323.65	334.95	11.29	323.10	-0.56	325.37	331.43	0.057485	12.44	122.18	83.63	2.84
stura 3	77	Tr 50	703.0	319.54	325.29	335.03	9.74	323.14	-2.15	325.29	326.06	0.002572	4.28	222.55	134.59	0.66
stura 3	77	Tr 200	1380.0	319.54	325.65	335.03	9.38	323.14	-2.51	326.21	327.56	0.006235	6.97	271.49	136.34	1.03
stura 3	77	Tr 500	1458.0	319.54	325.64	335.03	9.39	323.14	-2.50	326.30	327.79	0.007037	7.40	270.27	136.30	1.09
stura 3	76	Tr 50	703.0	318.06	321.07	340.07	19.00	326.50	5.43	322.33	325.04	0.025198	8.82	79.67	35.14	1.87
stura 3	76	Tr 200	1380.0	318.06	323.53	340.07	16.54	326.50	2.97	324.21	326.55	0.009567	7.70	179.23	45.93	1.24
stura 3	76	Tr 500	1458.0	318.06	323.75	340.07	16.32	326.50	2.75	324.39	326.77	0.009163	7.70	189.31	46.88	1.22
stura 3	75	Tr 50	703.0	314.30	319.31	325.16	5.85	335.40	16.09	318.44	319.99	0.002896	3.65	192.74	64.63	0.67
stura 3	75	Tr 200	1380.0	314.30	321.58	325.16	3.58	335.40	13.82	320.03	322.34	0.001830	3.86	357.57	77.12	0.57
stura 3	75	Tr 500	1458.0	314.30	321.80	325.16	3.36	335.40	13.60	320.16	322.57	0.001773	3.89	374.64	77.78	0.57

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
stura 3	74	Tr 50	703.0	313.70	318.96	325.12	6.16	324.10	5.14	317.79	319.69	0.002330	3.79	185.39	48.70	0.62
stura 3	74	Tr 200	1380.0	313.70	320.83	325.12	4.29	324.10	3.27	319.54	322.04	0.002677	4.88	282.94	55.88	0.69
stura 3	74	Tr 500	1458.0	313.70	321.01	325.12	4.11	324.10	3.09	319.72	322.27	0.002697	4.97	293.56	56.69	0.70
stura 3	73	Tr 50	703.0	312.58	317.73	324.98	7.25	320.09	2.36	317.73	319.18	0.006582	5.33	131.81	45.25	1.00
stura 3	73	Tr 200	1380.0	312.58	319.44	324.98	5.54	320.09	0.65	319.44	321.50	0.005951	6.36	217.08	52.40	1.00
stura 3	73	Tr 500	1458.0	312.58	319.61	324.98	5.37	320.09	0.48	319.61	321.73	0.005899	6.46	225.80	52.81	1.00
stura 3	72	Tr 50	703.0	311.80	314.93	324.87	9.94	327.92	12.99	315.87	317.98	0.020951	7.73	90.90	43.83	1.71
stura 3	72	Tr 200	1380.0	311.80	316.25	324.87	8.62	327.92	11.67	317.53	320.38	0.017057	9.01	153.24	49.83	1.64
stura 3	72	Tr 500	1458.0	311.80	316.38	324.87	8.49	327.92	11.54	317.68	320.62	0.016779	9.12	159.89	50.34	1.63
stura 3	71	Tr 50	703.0	311.53	315.93	312.70	-3.23	332.90	16.97	315.93	317.26	0.005207	5.44	144.58	53.61	0.93
stura 3	71	Tr 200	1380.0	311.53	317.55	312.70	-4.85	332.90	15.35	317.55	319.37	0.004966	6.47	241.20	65.92	0.95
stura 3	71	Tr 500	1458.0	311.53	317.72	312.70	-5.02	332.90	15.18	317.72	319.57	0.004895	6.53	252.53	67.21	0.94
stura 3	70	Tr 50	703.0	310.82	312.94	323.04	10.10	325.38	12.44	313.72	315.44	0.020603	6.99	100.53	56.23	1.67
stura 3	70	Tr 200	1380.0	310.82	314.01	323.04	9.03	325.38	11.37	315.12	317.60	0.018152	8.39	164.40	63.30	1.66
stura 3	70	Tr 500	1458.0	310.82	314.12	323.04	8.92	325.38	11.26	315.26	317.82	0.017992	8.52	171.15	64.00	1.66
stura 3	69	Tr 50	703.0	308.20	310.57	325.12	14.55	322.10	11.53	311.20	312.75	0.018233	6.53	107.71	61.16	1.57
stura 3	69	Tr 200	1380.0	308.20	311.46	325.12	13.66	322.10	10.64	312.56	315.12	0.018811	8.48	162.79	63.31	1.69
stura 3	69	Tr 500	1458.0	308.20	311.55	325.12	13.57	322.10	10.55	312.71	315.35	0.018677	8.63	168.93	63.55	1.69
stura 3	68	Tr 50	703.0	298.45	301.70	310.06	8.36	312.50	10.80	303.69	308.74	0.044211	11.75	59.82	26.07	2.48
stura 3	68	Tr 200	1380.0	298.45	303.40	310.06	6.66	312.50	9.10	305.87	311.59	0.030698	12.67	108.89	31.62	2.18
stura 3	68	Tr 500	1458.0	298.45	303.57	310.06	6.49	312.50	8.93	306.09	311.87	0.029917	12.76	114.27	32.17	2.16
stura 3	67	Tr 50	703.0	297.11	300.59	309.72	9.13	309.00	8.41	301.93	304.89	0.025028	9.18	76.60	31.45	1.88
stura 3	67	Tr 200	1380.0	297.11	301.93	309.72	7.79	309.00	7.07	303.99	308.56	0.024955	11.40	121.01	35.14	1.96
stura 3	67	Tr 500	1458.0	297.11	302.06	309.72	7.66	309.00	6.94	304.19	308.90	0.024831	11.58	125.88	35.52	1.96
stura 3	66	Tr 50	703.0	295.35	299.03	312.84	13.81	305.03	6.00	299.92	301.90	0.015455	7.51	93.58	37.21	1.51
stura 3	66	Tr 200	1380.0	295.35	300.15	312.84	12.69	305.03	4.88	301.71	305.14	0.019785	9.89	139.53	44.02	1.77
stura 3	66	Tr 500	1458.0	295.35	300.26	312.84	12.58	305.03	4.77	301.88	305.48	0.020071	10.12	144.05	44.31	1.79
stura 3	65	Tr 50	703.0	295.30	298.50	304.21	5.71	302.46	3.96	299.04	300.62	0.008365	6.45	109.07	42.28	1.28
stura 3	65	Tr 200	1380.0	295.30	299.63	304.21	4.58	302.46	2.83	300.71	303.36	0.011509	8.55	161.39	51.44	1.54
stura 3	65	Tr 500	1458.0	295.30	299.71	304.21	4.50	302.46	2.75	300.88	303.66	0.011828	8.80	165.75	51.62	1.57
stura 3	64	Tr 50	703.0	294.86	298.13	303.49	5.36	302.08	3.95	298.66	300.27	0.008694	6.48	108.50	43.31	1.31
stura 3	64	Tr 200	1380.0	294.86	299.48	303.49	4.01	302.08	2.60	300.37	302.82	0.009202	8.09	170.62	49.94	1.40
stura 3	64	Tr 500	1458.0	294.86	299.58	303.49	3.91	302.08	2.50	300.54	303.10	0.009418	8.31	175.52	50.14	1.42
stura 3	63	Tr 50	703.0	294.73	298.54	301.66	3.12	302.09	3.55	298.54	299.98	0.004850	5.33	132.01	45.47	1.00
stura 3	63	Tr 200	1380.0	294.73	300.76	301.66	0.90	302.09	1.33	300.24	302.44	0.003102	5.74	240.53	50.67	0.84
stura 3	63	Tr 500	1458.0	294.73	301.00	301.66	0.66	302.09	1.09	300.39	302.70	0.002969	5.77	252.80	50.79	0.83
stura 3	62	Tr 50	703.0	294.02	298.72	302.29	3.57	301.88	3.16	297.82	299.65	0.002233	4.27	164.78	42.63	0.69
stura 3	62	Tr 200	1380.0	294.02	300.89	302.29	1.40	301.88	0.99	299.65	302.32	0.002156	5.29	261.02	45.09	0.70

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
stura 3	62	Tr 500	1458.0	294.02	301.11	302.29	1.18	301.88	0.77	299.83	302.59	0.002152	5.38	270.87	45.18	0.70
stura 3	61	Tr 50	703.0	293.96	298.58	299.33	0.75	301.92	3.34	297.74	299.55	0.002340	4.34	161.92	42.29	0.71
stura 3	61	Tr 200	1380.0	293.96	300.77	299.33	-1.44	301.92	1.15	299.59	302.22	0.002123	5.34	260.47	46.53	0.71
stura 3	61	Tr 500	1458.0	293.96	300.99	299.33	-1.66	301.92	0.93	299.77	302.49	0.002101	5.43	270.83	46.63	0.71
stura 3	60	Tr 50	703.0	294.26	297.76	300.96	3.20	301.97	4.21	297.76	299.35	0.005075	5.58	126.04	39.74	1.00
stura 3	60	Tr 200	1380.0	294.26	299.60	300.96	1.36	301.97	2.37	299.60	302.00	0.004679	6.86	201.26	41.87	1.00
stura 3	60	Tr 500	1458.0	294.26	299.79	300.96	1.17	301.97	2.18	299.79	302.27	0.004663	6.98	208.99	42.08	1.00
stura 3	59.5	Tr 50	703.0	293.88	296.86	302.07	5.21	301.92	5.06	297.46	299.21	0.009846	6.79	103.49	40.88	1.36
stura 3	59.5	Tr 200	1380.0	293.88	298.40	302.07	3.67	301.92	3.52	299.20	301.84	0.008466	8.22	167.89	42.45	1.32
stura 3	59.5	Tr 500	1458.0	293.88	298.56	302.07	3.51	301.92	3.36	299.38	302.11	0.008350	8.35	174.70	42.45	1.31
stura 3	59		Bridge													
stura 3	58	Tr 50	703.0	293.61	296.55	301.92	5.37	302.14	5.59	297.24	299.09	0.011335	7.05	99.65	41.67	1.46
stura 3	58	Tr 200	1380.0	293.61	298.05	301.92	3.87	302.14	4.09	298.98	301.73	0.009396	8.50	162.32	42.16	1.38
stura 3	58	Tr 500	1458.0	293.61	298.21	301.92	3.71	302.14	3.93	299.17	302.00	0.009251	8.63	169.00	42.21	1.38
stura 3	57	Tr 50	703.0	293.63	297.23	296.01	-1.22	302.12	4.89	297.23	298.75	0.004564	5.52	131.14	43.08	0.97
stura 3	57	Tr 200	1380.0	293.63	298.96	296.01	-2.95	302.12	3.16	298.96	301.33	0.004363	6.94	206.19	43.41	0.99
stura 3	57	Tr 500	1458.0	293.63	299.14	296.01	-3.13	302.12	2.98	299.14	301.60	0.004350	7.07	213.91	43.44	0.99
stura 3	56	Tr 50	703.0	293.06	295.56	295.17	-0.39	302.38	6.82	296.33	298.30	0.013030	7.33	95.93	40.75	1.53
stura 3	56	Tr 200	1380.0	293.06	297.12	295.17	-1.95	302.38	5.26	298.11	300.90	0.009980	8.61	160.26	41.44	1.40
stura 3	56	Tr 500	1458.0	293.06	297.29	295.17	-2.12	302.38	5.09	298.28	301.17	0.009802	8.73	167.01	41.52	1.39
stura 3	55	Tr 50	703.0	292.96	295.55	295.13	-0.42	302.30	6.75	296.24	298.03	0.012730	6.97	100.82	46.55	1.51
stura 3	55	Tr 200	1380.0	292.96	296.73	295.13	-1.60	302.30	5.57	297.89	300.72	0.012219	8.85	155.95	46.98	1.55
stura 3	55	Tr 500	1458.0	292.96	296.85	295.13	-1.72	302.30	5.45	298.06	300.99	0.012112	9.00	161.93	47.03	1.55
stura 3	54	Tr 50	703.0	292.70	296.06	295.01	-1.05	300.26	4.20	296.06	297.55	0.005105	5.41	130.04	43.51	1.00
stura 3	54	Tr 200	1380.0	292.70	297.76	295.01	-2.75	300.26	2.50	297.76	300.08	0.004782	6.75	204.45	43.89	1.00
stura 3	54	Tr 500	1458.0	292.70	297.93	295.01	-2.92	300.26	2.33	297.93	300.34	0.004769	6.88	212.07	43.92	1.00
stura 3	53	Tr 50	703.0	292.44	295.03	293.31	-1.72	299.12	4.09	295.54	297.19	0.009307	6.51	107.94	43.12	1.31
stura 3	53	Tr 200	1380.0	292.44	296.58	293.31	-3.27	299.12	2.54	297.24	299.74	0.007795	7.88	175.24	43.70	1.26
stura 3	53	Tr 500	1458.0	292.44	296.74	293.31	-3.43	299.12	2.38	297.42	300.00	0.007699	8.00	182.28	43.75	1.25
stura 3	52	Tr 50	703.0	292.07	295.96	293.55	-2.41	298.63	2.67	295.13	296.81	0.002262	4.09	171.92	46.82	0.68
stura 3	52	Tr 200	1380.0	292.07	298.09	293.55	-4.54	298.63	0.54	296.76	299.40	0.002107	5.08	271.80	47.12	0.68
stura 3	52	Tr 500	1458.0	292.07	298.31	293.55	-4.76	298.63	0.32	296.92	299.67	0.002091	5.16	282.46	47.15	0.67
stura 3	51	Tr 50	703.0	291.78	295.55	293.55	-2.00	298.49	2.94	295.04	296.66	0.003220	4.67	150.41	42.60	0.79
stura 3	51	Tr 200	1380.0	291.78	297.32	293.55	-3.77	298.49	1.17	296.78	299.22	0.003514	6.11	225.97	42.77	0.85
stura 3	51	Tr 500	1458.0	291.78	297.52	293.55	-3.97	298.49	0.97	296.95	299.49	0.003506	6.22	234.44	42.79	0.85
stura 3	50	Tr 50	703.0	291.66	295.47	293.41	-2.06	297.43	1.96	294.86	296.49	0.002793	4.46	157.48	44.18	0.76
stura 3	50	Tr 200	1380.0	291.66	297.30	293.41	-3.89	297.43	0.13	296.55	299.01	0.002976	5.79	238.50	44.53	0.80

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
stura 3	50	Tr 500	1458.0	291.66	297.51	293.41	-4.10	297.43	-0.08	296.73	299.27	0.002960	5.89	247.68	44.56	0.80
stura 3	49	Tr 50	703.0	291.60	294.97	301.62	6.65	297.30	2.33	294.85	296.33	0.004408	5.16	136.16	44.67	0.94
stura 3	49	Tr 200	1380.0	291.60	297.21	301.62	4.41	297.30	0.09	296.57	298.89	0.003025	5.75	239.99	48.20	0.82
stura 3	49	Tr 500	1458.0	291.60	297.43	301.62	4.19	297.30	-0.13	296.74	299.15	0.002969	5.82	250.56	48.53	0.82
stura 3	48	Tr 50	703.0	291.00	295.28	301.70	6.42	297.01	1.73	294.22	296.09	0.001953	3.98	176.70	44.62	0.64
stura 3	48	Tr 200	1380.0	291.00	297.45	301.70	4.25	297.01	-0.44	295.98	298.69	0.001938	4.94	279.72	49.77	0.66
stura 3	48	Tr 500	1458.0	291.00	297.67	301.70	4.03	297.01	-0.66	296.15	298.95	0.001927	5.02	290.58	50.13	0.66
stura 3	47	Tr 50	703.0	290.92	294.36	304.60	10.24	296.70	2.34	294.36	295.93	0.005076	5.56	126.50	40.25	1.00
stura 3	47	Tr 200	1380.0	290.92	296.21	304.60	8.39	296.70	0.49	296.21	298.51	0.004682	6.71	205.68	44.65	1.00
stura 3	47	Tr 500	1458.0	290.92	296.39	304.60	8.21	296.70	0.31	296.39	298.77	0.004671	6.83	213.52	44.90	1.00
stura 3	46	Tr 50	703.0	290.64	293.71	300.64	6.93	296.50	2.79	294.07	295.72	0.007393	6.28	111.85	39.51	1.19
stura 3	46	Tr 200	1380.0	290.64	295.53	300.64	5.12	296.50	0.97	295.91	298.32	0.006091	7.40	186.46	42.51	1.13
stura 3	46	Tr 500	1458.0	290.64	295.71	300.64	4.93	296.50	0.79	296.09	298.58	0.005977	7.50	194.53	42.71	1.12
stura 3	45	Tr 50	703.0	290.25	293.24	297.35	4.11	296.00	2.76	293.77	295.45	0.008502	6.59	106.75	39.44	1.28
stura 3	45	Tr 200	1380.0	290.25	296.33	297.35	1.02	296.00	-0.33	295.52	298.03	0.002881	5.79	242.29	48.05	0.78
stura 3	45	Tr 500	1458.0	290.25	296.57	297.35	0.78	296.00	-0.57	295.69	298.30	0.002799	5.86	253.82	48.07	0.78
stura 3	44.7	Tr 50	703.0	290.24	294.18	299.13	4.95	299.13	4.95	293.47	295.21	0.002709	4.49	156.73	41.03	0.73
stura 3	44.7	Tr 200	1380.0	290.24	296.31	299.13	2.82	299.13	2.82	295.23	297.94	0.002674	5.65	244.23	41.04	0.74
stura 3	44.7	Tr 500	1458.0	290.24	296.53	299.13	2.60	299.13	2.60	295.42	298.22	0.002674	5.76	253.27	41.04	0.74
stura 3	44.5		Bridge													
stura 3	44	Tr 50	703.0	290.24	293.07	299.13	6.06	299.13	6.06	293.47	295.11	0.007978	6.32	111.17	41.03	1.23
stura 3	44	Tr 200	1380.0	290.24	294.63	299.13	4.50	299.13	4.50	295.23	297.80	0.007418	7.89	174.96	41.03	1.22
stura 3	44	Tr 500	1458.0	290.24	294.79	299.13	4.34	299.13	4.34	295.42	298.07	0.007384	8.03	181.57	41.03	1.22
stura 3	43.5	Tr 50	703.0	290.10	292.55	294.90	2.35	294.15	1.60	293.17	294.90	0.011009	6.80	103.45	43.96	1.41
stura 3	43.5	Tr 200	1380.0	290.10	293.87	294.90	1.03	294.15	0.28	294.87	297.58	0.010305	8.54	161.68	44.46	1.43
stura 3	43.5	Tr 500	1458.0	290.10	294.00	294.90	0.90	294.15	0.15	295.08	297.86	0.010260	8.69	167.69	44.51	1.43
Stura4	43	Tr 50	711.0	289.74	291.71	295.30	3.59	295.11	3.40	292.56	294.59	0.019773	7.51	94.62	51.91	1.78
Stura4	43	Tr 200	1458.0	289.74	292.92	295.30	2.38	295.11	2.19	294.20	297.29	0.016086	9.25	157.61	52.20	1.70
Stura4	43	Tr 500	1525.0	289.74	292.99	295.30	2.31	295.11	2.12	294.34	297.55	0.016373	9.46	161.22	52.22	1.72
Stura4	42	Tr 50	711.0	289.49	291.84	295.21	3.37	296.21	4.37	292.40	293.97	0.011914	6.46	109.99	52.48	1.43
Stura4	42	Tr 200	1458.0	289.49	292.98	295.21	2.23	296.21	3.23	294.03	296.74	0.012449	8.59	169.80	52.79	1.53
Stura4	42	Tr 500	1525.0	289.49	293.04	295.21	2.17	296.21	3.17	294.16	297.00	0.012787	8.80	173.20	52.81	1.55
Stura4	41.5	Tr 50	711.0	289.46	293.02	295.30	2.28	295.12	2.10	291.98	293.64	0.001868	3.47	204.69	58.21	0.59
Stura4	41.5	Tr 200	1458.0	289.46	295.11	295.30	0.19	295.12	0.01	293.51	296.11	0.001898	4.43	329.48	63.26	0.62
Stura4	41.5	Tr 500	1525.0	289.46	292.33	295.30	2.97	295.12	2.79	293.63	296.70	0.017220	9.26	164.73	58.16	1.76
Stura4	41		Bridge													

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura4	40.5	Tr 50	711.0	289.46	291.38	295.30	3.92	295.12	3.74	291.98	293.53	0.014020	6.49	109.49	58.09	1.51
Stura4	40.5	Tr 200	1458.0	289.46	292.59	295.30	2.71	295.12	2.53	293.51	295.95	0.011943	8.12	179.54	58.17	1.48
Stura4	40.5	Tr 500	1525.0	289.46	292.69	295.30	2.61	295.12	2.43	293.63	296.14	0.011797	8.23	185.36	58.18	1.47
Stura4	40	Tr 50	711.0	289.30	290.81	295.23	4.42	300.61	9.80	291.53	293.22	0.021192	6.88	103.40	70.83	1.82
Stura4	40	Tr 200	1458.0	289.30	291.66	295.23	3.57	300.61	8.95	292.86	295.64	0.019756	8.83	165.20	73.33	1.88
Stura4	40	Tr 500	1525.0	289.30	291.73	295.23	3.50	300.61	8.88	292.96	295.82	0.019636	8.96	170.25	73.53	1.88
Stura4	39	Tr 50	711.0	288.42	289.80	294.96	5.16	300.76	10.96	290.66	292.73	0.028752	7.58	93.80	69.67	2.09
Stura4	39	Tr 200	1458.0	288.42	294.07	294.96	0.89	300.76	6.69	292.00	294.73	0.001139	3.59	406.33	77.59	0.50
Stura4	39	Tr 500	1525.0	288.42	294.29	294.96	0.67	300.76	6.47	292.10	294.96	0.001094	3.60	423.38	77.64	0.49
Stura4	38	Tr 50	711.0	288.13	290.16	294.76	4.60	300.50	10.34	290.64	291.96	0.012058	5.94	119.73	67.33	1.42
Stura4	38	Tr 200	1458.0	288.13	293.98	294.76	0.78	300.50	6.52	292.01	294.70	0.001197	3.74	389.88	73.02	0.52
Stura4	38	Tr 500	1525.0	288.13	294.20	294.76	0.56	300.50	6.30	292.12	294.92	0.001156	3.76	405.90	73.28	0.51
Stura4	37	Tr 50	711.0	287.55	291.25	294.30	3.05	298.05	6.80	290.28	291.79	0.001812	3.26	217.97	71.44	0.60
Stura4	37	Tr 200	1458.0	287.55	294.03	294.30	0.27	298.05	4.02	291.71	294.63	0.000943	3.43	425.44	75.39	0.46
Stura4	37	Tr 500	1525.0	287.55	294.25	294.30	0.05	298.05	3.80	291.83	294.86	0.000915	3.45	441.95	75.47	0.46
Stura4	36	Tr 50	711.0	287.19	291.14	294.11	2.97	297.98	6.84	289.95	291.74	0.001661	3.43	207.31	56.75	0.57
Stura4	36	Tr 200	1458.0	287.19	293.75	294.11	0.36	297.98	4.23	291.57	294.58	0.001281	4.04	361.13	60.09	0.53
Stura4	36	Tr 500	1525.0	287.19	293.96	294.11	0.15	297.98	4.02	291.70	294.81	0.001261	4.08	373.67	60.16	0.52
Stura4	35	Tr 50	711.0	286.67	290.33	293.70	3.38	297.28	6.95	290.06	291.59	0.004143	4.99	142.47	43.87	0.88
Stura4	35	Tr 200	1458.0	286.67	292.72	293.70	0.98	297.28	4.56	291.93	294.43	0.003078	5.79	251.78	46.21	0.79
Stura4	35	Tr 500	1525.0	286.67	292.91	293.70	0.79	297.28	4.37	292.07	294.66	0.003038	5.86	260.43	46.28	0.79
Stura4	34	Tr 50	711.0	286.40	290.23	293.43	3.20	296.99	6.76	289.92	291.52	0.004103	5.02	141.59	42.45	0.88
Stura4	34	Tr 200	1458.0	286.40	291.85	293.43	1.58	296.99	5.14	291.85	294.29	0.005019	6.92	210.84	43.11	1.00
Stura4	34	Tr 500	1525.0	286.40	292.00	293.43	1.43	296.99	4.99	292.00	294.51	0.005006	7.02	217.30	43.17	1.00
Stura4	33	Tr 50	711.0	286.16	289.89	290.92	1.03	296.24	6.35	289.89	291.35	0.005339	5.36	132.75	45.24	1.00
Stura4	33	Tr 200	1458.0	286.16	291.22	290.92	-0.30	296.24	5.02	291.71	294.06	0.006944	7.45	195.63	48.16	1.18
Stura4	33	Tr 500	1525.0	286.16	291.33	290.92	-0.41	296.24	4.91	291.85	294.27	0.007018	7.60	200.66	48.19	1.19
Stura4	32	Tr 50	711.0	285.28	288.48	290.00	1.52	295.80	7.32	289.16	290.88	0.010808	6.86	103.61	42.55	1.40
Stura4	32	Tr 200	1458.0	285.28	292.29	290.00	-2.29	295.80	3.51	290.98	293.52	0.002061	4.93	296.04	54.47	0.67
Stura4	32	Tr 500	1525.0	285.28	292.49	290.00	-2.49	295.80	3.31	291.11	293.74	0.002024	4.97	306.84	54.71	0.67
Stura4	31	Tr 50	711.0	284.96	289.02	289.95	0.93	288.81	-0.21	289.02	290.51	0.005712	5.40	131.63	44.11	1.00
Stura4	31	Tr 200	1458.0	284.96	290.85	289.95	-0.90	288.81	-2.04	290.85	293.25	0.005362	6.86	212.45	44.31	1.00
Stura4	31	Tr 500	1525.0	284.96	291.00	289.95	-1.05	288.81	-2.19	291.00	293.47	0.005318	6.95	219.31	44.31	1.00
Stura4	30	Tr 50	711.0	284.16	287.59	290.63	3.04	289.89	2.30	288.20	290.02	0.010519	6.91	102.94	36.88	1.32
Stura4	30	Tr 200	1458.0	284.16	289.57	290.63	1.06	289.89	0.32	290.26	292.82	0.008424	7.99	182.58	43.53	1.25
Stura4	30	Tr 500	1525.0	284.16	289.71	290.63	0.92	289.89	0.18	290.40	293.04	0.008399	8.08	188.63	43.99	1.25
Stura4	29	Tr 50	711.0	284.12	287.11	291.96	4.85	289.28	2.17	287.84	289.59	0.011611	6.97	102.04	41.90	1.43
Stura4	29	Tr 200	1458.0	284.12	288.52	291.96	3.44	289.28	0.76	289.67	292.36	0.012459	8.69	167.88	51.56	1.54

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura4	29	Tr 500	1525.0	284.12	288.62	291.96	3.34	289.28	0.66	289.80	292.58	0.012560	8.82	172.99	52.24	1.55
Stura4	28	Tr 50	711.0	284.01	288.00	289.66	1.66	292.36	4.36	287.49	288.97	0.003506	4.36	163.08	51.60	0.78
Stura4	28	Tr 200	1458.0	284.01	290.59	289.66	-0.93	292.36	1.77	289.25	291.69	0.002359	4.66	313.08	64.00	0.67
Stura4	28	Tr 500	1525.0	284.01	290.84	289.66	-1.18	292.36	1.52	289.48	291.94	0.002211	4.63	329.53	64.61	0.65
Stura4	27	Tr 50	711.0	284.16	287.93	289.68	1.75	292.34	4.41	287.62	288.94	0.004008	4.45	159.92	57.19	0.85
Stura4	27	Tr 200	1458.0	284.16	290.64	289.68	-0.96	292.34	1.70	289.23	291.65	0.001908	4.46	327.24	64.64	0.63
Stura4	27	Tr 500	1525.0	284.16	290.89	289.68	-1.21	292.34	1.45	289.36	291.90	0.001799	4.44	343.62	65.06	0.62
Stura4	26	Tr 50	711.0	283.95	287.98	289.37	1.39	291.76	3.78	287.34	288.76	0.002710	3.92	181.32	58.93	0.71
Stura4	26	Tr 200	1458.0	283.95	290.66	289.37	-1.29	291.76	1.10	288.90	291.56	0.001559	4.21	346.54	64.33	0.58
Stura4	26	Tr 500	1525.0	283.95	290.91	289.37	-1.54	291.76	0.85	289.02	291.81	0.001487	4.20	362.75	64.82	0.57
Stura4	25	Tr 50	711.0	283.26	287.02	289.51	2.49	288.31	1.29	287.02	288.51	0.005297	5.42	131.21	43.76	1.00
Stura4	25	Tr 200	1458.0	283.26	290.18	289.51	-0.67	288.31	-1.87	289.15	291.44	0.001987	5.07	306.99	67.06	0.66
Stura4	25	Tr 500	1525.0	283.26	290.50	289.51	-0.99	288.31	-2.19	289.31	291.70	0.001807	4.98	328.13	67.59	0.63
Stura4	24	Tr 50	711.0	282.79	285.75	290.06	4.31	289.10	3.35	286.42	288.24	0.011622	6.99	101.65	42.47	1.44
Stura4	24	Tr 200	1458.0	282.79	290.03	290.06	0.03	289.10	-0.93	288.30	291.34	0.001952	5.08	287.22	43.99	0.63
Stura4	24	Tr 500	1525.0	282.79	290.28	290.06	-0.22	289.10	-1.18	288.45	291.61	0.001907	5.11	298.28	43.99	0.63
Stura4	23.5	Tr 50	711.0	282.74	286.69	292.51	5.82	292.51	5.82	286.28	288.05	0.003962	5.17	137.65	35.96	0.84
Stura4	23.5	Tr 200	1458.0	282.74	288.85	292.51	3.66	292.51	3.66	288.37	291.19	0.004264	6.77	215.52	35.96	0.88
Stura4	23.5	Tr 500	1525.0	282.74	289.11	292.51	3.40	292.51	3.40	288.55	291.46	0.004121	6.79	224.67	35.96	0.87
Stura4	23		Bridge													
Stura4	22.5	Tr 50	711.0	282.74	286.28	292.51	6.23	292.12	5.84	286.28	287.98	0.005619	5.78	122.98	35.96	1.00
Stura4	22.5	Tr 200	1458.0	282.74	287.97	292.51	4.54	292.12	4.15	288.37	291.18	0.006895	7.94	183.69	35.96	1.12
Stura4	22.5	Tr 500	1525.0	282.74	288.05	292.51	4.46	292.12	4.07	288.55	291.45	0.007173	8.17	186.77	35.96	1.14
Stura4	22	Tr 50	711.0	282.70	285.70	290.64	4.94	288.81	3.11	286.18	287.81	0.008967	6.43	110.53	42.77	1.28
Stura4	22	Tr 200	1458.0	282.70	286.92	290.64	3.72	288.81	1.89	288.02	290.96	0.011048	8.90	163.87	43.75	1.47
Stura4	22	Tr 500	1525.0	282.70	287.01	290.64	3.63	288.81	1.80	288.17	291.23	0.011241	9.09	167.73	43.76	1.48
Stura4	21	Tr 50	711.0	282.68	285.62	290.64	5.02	288.81	3.19	285.94	287.50	0.007679	6.07	117.23	43.47	1.18
Stura4	21	Tr 200	1458.0	282.68	287.24	290.64	3.40	288.81	1.57	287.80	290.31	0.007362	7.77	187.76	43.86	1.20
Stura4	21	Tr 500	1525.0	282.68	287.25	290.64	3.39	288.81	1.56	287.94	290.60	0.008005	8.11	188.14	43.87	1.25
Stura4	20	Tr 50	711.0	282.05	285.34	293.05	7.71	288.35	3.01	285.50	287.11	0.006421	5.89	120.62	39.66	1.08
Stura4	20	Tr 200	1458.0	282.05	287.64	293.05	5.41	288.35	0.71	287.47	290.04	0.004681	6.86	212.56	40.27	0.95
Stura4	20	Tr 500	1525.0	282.05	287.82	293.05	5.23	288.35	0.53	287.64	290.27	0.004626	6.94	219.81	40.32	0.95
Stura4	19	Tr 50	711.0	281.96	285.69	293.05	7.36	288.32	2.63	285.34	286.94	0.003872	4.95	143.52	41.78	0.85
Stura4	19	Tr 200	1458.0	281.96	287.86	293.05	5.19	288.32	0.46	287.26	289.82	0.003570	6.21	234.74	42.43	0.84
Stura4	19	Tr 500	1525.0	281.96	288.04	293.05	5.01	288.32	0.28	287.41	290.06	0.003531	6.28	242.68	42.49	0.84
Stura4	18	Tr 50	711.0	281.88	285.58	292.50	6.92	287.56	1.98	285.30	286.86	0.004057	5.01	142.02	42.92	0.88
Stura4	18	Tr 200	1458.0	281.88	287.85	292.50	4.65	287.56	-0.29	287.18	289.71	0.003305	6.05	242.39	48.96	0.82

HEC-RAS Plan: 2_VBP2024 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura4	18	Tr 500	1525.0	281.88	288.05	292.50	4.45	287.56	-0.49	287.34	289.94	0.003215	6.09	252.30	48.99	0.82
Stura4	17	Tr 50	711.0	281.46	285.24	291.30	6.06	287.48	2.24	284.95	286.58	0.004110	5.13	138.48	39.88	0.88
Stura4	17	Tr 200	1458.0	281.46	287.31	291.30	3.99	287.48	0.17	286.95	289.49	0.004050	6.54	222.89	41.70	0.90
Stura4	17	Tr 500	1525.0	281.46	287.46	291.30	3.84	287.48	0.02	287.11	289.72	0.004073	6.65	229.29	41.86	0.91
Stura4	16	Tr 50	711.0	281.27	284.95	289.24	4.29	287.49	2.54	284.72	286.28	0.004274	5.11	139.18	42.49	0.90
Stura4	16	Tr 200	1458.0	281.27	286.87	289.24	2.37	287.49	0.62	286.63	289.07	0.004273	6.58	221.55	43.44	0.93
Stura4	16	Tr 500	1525.0	281.27	286.90	289.24	2.34	287.49	0.59	286.78	289.28	0.004589	6.84	222.89	43.45	0.96
Stura4	15.5	Tr 50	711.0	280.97	285.19	288.70	3.51	288.22	3.03	284.35	286.10	0.002635	4.22	168.49	45.64	0.70
Stura4	15.5	Tr 200	1458.0	280.97	287.26	288.70	1.44	288.22	0.96	286.20	288.82	0.002758	5.52	264.08	46.53	0.74
Stura4	15.5	Tr 500	1525.0	280.97	287.35	288.70	1.35	288.22	0.87	286.36	289.00	0.002884	5.69	268.01	46.56	0.76
Stura4	15.3	Tr 50	711.0	280.97	285.23	292.06	6.83	288.22	2.99	284.23	286.07	0.002360	4.06	175.25	45.61	0.66
Stura4	15.3	Tr 200	1458.0	280.97	287.31	292.06	4.75	288.22	0.91	286.10	288.79	0.002588	5.39	270.60	46.19	0.71
Stura4	15.3	Tr 500	1525.0	280.97	287.39	292.06	4.67	288.22	0.83	286.25	288.96	0.002707	5.55	274.63	46.22	0.73
Stura4	15		Bridge													
Stura4	14.5	Tr 50	711.0	280.97	285.21	292.06	6.85	288.22	3.01	284.23	286.06	0.002390	4.07	174.56	45.60	0.66
Stura4	14.5	Tr 200	1458.0	280.97	287.29	292.06	4.77	288.22	0.93	286.10	288.78	0.002614	5.41	269.72	46.19	0.71
Stura4	14.5	Tr 500	1525.0	280.97	287.37	292.06	4.69	288.22	0.85	286.25	288.95	0.002735	5.57	273.68	46.21	0.73
Stura4	14	Tr 50	711.0	280.57	285.28	289.00	3.72	288.26	2.98	283.82	285.97	0.001737	3.70	192.11	44.79	0.57
Stura4	14	Tr 200	1458.0	280.57	287.35	289.00	1.65	288.26	0.91	285.76	288.68	0.002165	5.11	285.44	45.17	0.65
Stura4	14	Tr 500	1525.0	280.57	287.44	289.00	1.56	288.26	0.82	285.90	288.86	0.002270	5.27	289.48	45.19	0.66
Stura4	13	Tr 50	711.0	280.48	285.24	288.61	3.37	288.06	2.82	283.63	285.87	0.001532	3.52	201.76	46.06	0.54
Stura4	13	Tr 200	1458.0	280.48	287.33	288.61	1.28	288.06	0.73	285.54	288.55	0.001939	4.89	298.10	46.32	0.62
Stura4	13	Tr 500	1525.0	280.48	287.42	288.61	1.19	288.06	0.64	285.68	288.71	0.002035	5.05	302.22	46.33	0.63
Stura4	12	Tr 50	711.0	280.02	285.25	286.97	1.72	289.19	3.94	283.21	285.78	0.001136	3.21	221.65	45.24	0.46
Stura4	12	Tr 200	1458.0	280.02	287.34	286.97	-0.37	289.19	1.85	285.09	288.42	0.001601	4.61	316.33	45.85	0.56
Stura4	12	Tr 500	1525.0	280.02	287.43	286.97	-0.46	289.19	1.76	285.24	288.59	0.001682	4.76	320.44	45.86	0.57
Stura4	11	Tr 50	711.0	279.98	285.22	287.30	2.08	289.16	3.94	283.29	285.75	0.001108	3.21	221.19	46.35	0.47
Stura4	11	Tr 200	1458.0	279.98	287.30	287.30	0.00	289.16	1.86	285.11	288.38	0.001539	4.59	317.90	46.45	0.56
Stura4	11	Tr 500	1525.0	279.98	287.39	287.30	-0.09	289.16	1.77	285.25	288.53	0.001621	4.74	321.95	46.45	0.57
Stura5	10	Tr 50	820.0	279.95	284.29	286.39	2.10	289.16	4.87	282.73	284.80	0.001448	3.17	258.34	62.23	0.50
Stura5	10	Tr 200	1605.0	279.95	286.36	286.39	0.03	289.16	2.80	284.22	287.23	0.001552	4.14	387.58	62.60	0.53
Stura5	10	Tr 500	1747.0	279.95	286.24	286.39	0.15	289.16	2.92	284.45	287.31	0.001955	4.60	380.02	62.58	0.60
Stura5	9	Tr 50	820.0	279.85	283.60	285.65	2.05	287.29	3.69	283.05	284.66	0.003692	4.55	180.18	51.55	0.78
Stura5	9	Tr 200	1605.0	279.85	285.21	285.65	0.44	287.29	2.08	284.79	287.04	0.004460	5.99	268.07	56.25	0.88
Stura5	9	Tr 500	1747.0	279.85	285.95	285.65	-0.30	287.29	1.34	285.05	287.18	0.005221	4.91	355.71	119.19	0.91
Stura5	8	Tr 50	820.0	279.62	283.43	284.03	0.60	285.90	2.47	282.85	284.49	0.003626	4.55	180.32	50.32	0.77
Stura5	8	Tr 200	1605.0	279.62	284.89	284.03	-0.86	285.90	1.01	284.67	286.82	0.004715	6.19	266.38	65.13	0.90

HEC-RAS Plan: 2_VBP2024 (Continued)

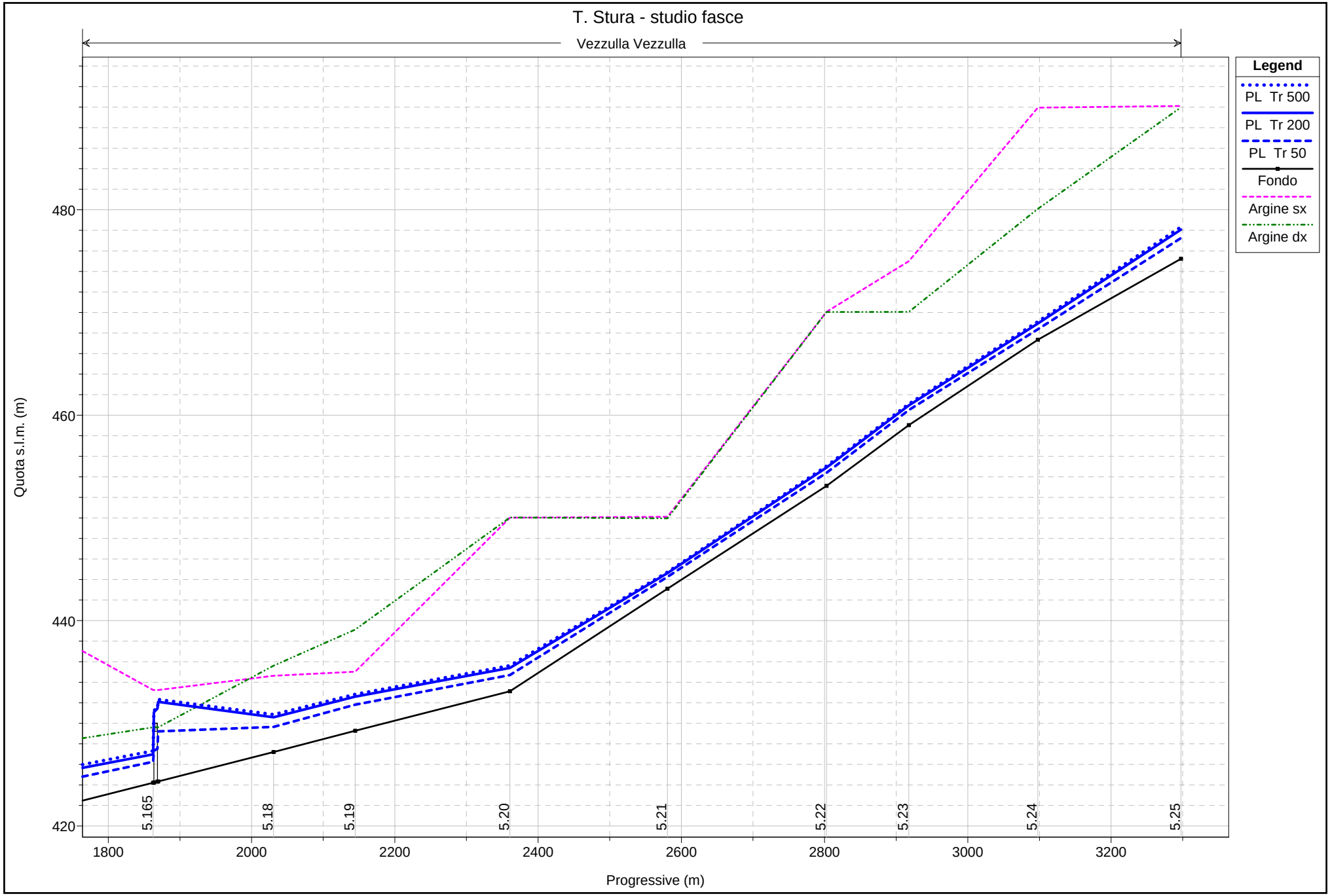
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura5	8	Tr 500	1747.0	279.62	285.68	284.03	-1.65	285.90	0.22	284.96	287.00	0.002907	5.30	382.24	123.80	0.71
Stura5	7	Tr 50	820.0	279.40	282.67	283.61	0.94	284.16	1.49	282.67	284.21	0.006337	5.49	149.25	48.24	1.00
Stura5	7	Tr 200	1605.0	279.40	285.04	283.61	-1.43	284.16	-0.88	284.63	286.46	0.003656	5.43	328.46	105.08	0.76
Stura5	7	Tr 500	1747.0	279.40	285.62	283.61	-2.01	284.16	-1.46	285.06	286.82	0.002774	5.07	390.63	109.53	0.68
Stura5	6	Tr 50	820.0	278.88	281.64	283.46	1.82	285.50	3.86	282.12	283.75	0.011238	6.44	127.43	51.44	1.31
Stura5	6	Tr 200	1605.0	278.88	285.06	283.46	-1.60	285.50	0.44	283.82	286.23	0.002754	4.87	348.89	85.91	0.65
Stura5	6	Tr 500	1747.0	278.88	285.56	283.46	-2.10	285.50	-0.06	284.10	286.67	0.002392	4.78	392.64	89.35	0.61
Stura5	5	Tr 50	820.0	278.51	282.47	285.05	2.58	286.37	3.90	281.82	283.34	0.003129	4.13	198.68	61.12	0.73
Stura5	5	Tr 200	1605.0	278.51	285.14	285.05	-0.09	286.37	1.23	283.40	286.08	0.001839	4.30	373.97	75.54	0.60
Stura5	5	Tr 500	1747.0	278.51	285.61	285.05	-0.56	286.37	0.76	283.65	286.54	0.001679	4.29	409.79	77.06	0.58
Stura5	4	Tr 50	820.0	277.39	282.33	282.62	0.29	286.40	4.07	281.04	283.15	0.002152	4.01	204.58	46.96	0.61
Stura5	4	Tr 200	1605.0	277.39	284.60	282.62	-1.98	286.40	1.80	282.94	285.90	0.002162	5.07	319.28	54.45	0.65
Stura5	4	Tr 500	1747.0	277.39	285.02	282.62	-2.40	286.40	1.38	283.24	286.37	0.002081	5.16	342.79	55.90	0.64
Stura5	3	Tr 50	820.0	277.01	281.27	285.20	3.93	285.50	4.23	281.27	282.87	0.005969	5.62	145.94	45.13	1.00
Stura5	3	Tr 200	1605.0	277.01	284.22	285.20	0.98	285.50	1.28	283.18	285.74	0.002970	5.46	293.88	55.14	0.76
Stura5	3	Tr 500	1747.0	277.01	284.72	285.20	0.48	285.50	0.78	283.48	286.22	0.002711	5.43	322.03	56.85	0.73
Stura5	2	Tr 50	820.0	275.32	281.35	282.40	1.05	288.00	6.65	280.23	282.40	0.002633	4.54	180.64	40.24	0.68
Stura5	2	Tr 200	1605.0	275.32	284.21	282.40	-1.81	288.00	3.79	282.40	285.63	0.002225	5.28	304.04	45.10	0.65
Stura5	2	Tr 500	1747.0	275.32	284.67	282.40	-2.27	288.00	3.33	282.73	286.14	0.002184	5.38	324.57	45.64	0.64
Stura5	1	Tr 50	820.0	275.30	280.73	282.20	1.47	284.76	4.03	280.33	282.22	0.004411	5.41	151.51	38.50	0.87
Stura5	1	Tr 200	1605.0	275.30	284.02	282.20	-1.82	284.76	0.74	282.54	285.53	0.002582	5.44	295.15	47.75	0.70
Stura5	1	Tr 500	1747.0	275.30	284.52	282.20	-2.32	284.76	0.24	282.86	286.04	0.002460	5.48	319.05	48.85	0.68
Stura5	-1	Tr 50	820.0	275.18	280.95	282.50	1.55	284.53	3.58	279.65	281.99	0.002472	4.51	181.67	37.35	0.65
Stura5	-1	Tr 200	1605.0	275.18	284.03	282.50	-1.53	284.53	0.50	281.91	285.42	0.002122	5.23	307.08	42.70	0.62
Stura5	-1	Tr 500	1747.0	275.18	284.50	282.50	-2.00	284.53	0.03	282.25	285.95	0.002090	5.34	327.22	42.99	0.62
Stura5	-2	Tr 50	820.0	274.73	280.65	281.20	0.55	284.13	3.48	279.70	281.90	0.003082	4.94	165.86	35.23	0.73
Stura5	-2	Tr 200	1605.0	274.73	283.64	281.20	-2.44	284.13	0.49	281.98	285.33	0.002680	5.76	278.57	38.31	0.68
Stura5	-2	Tr 500	1747.0	274.73	284.07	281.20	-2.87	284.13	0.06	282.31	285.86	0.002680	5.92	295.23	38.39	0.68
Stura5	-3	Tr 50	820.0	274.59	279.61	280.55	0.94	283.70	4.09	279.61	281.70	0.006135	6.41	127.87	30.49	1.00
Stura5	-3	Tr 200	1605.0	274.59	282.04	280.55	-1.49	283.70	1.66	282.04	285.10	0.006089	7.74	207.46	33.94	1.00
Stura5	-3	Tr 500	1747.0	274.59	282.61	280.55	-2.06	283.70	1.09	282.41	285.64	0.005554	7.70	226.80	34.05	0.95
Stura5	-4	Tr 50	820.0	274.44	278.31	280.70	2.39	283.20	4.89	279.04	281.38	0.011298	7.76	105.65	29.78	1.32
Stura5	-4	Tr 200	1605.0	274.44	280.75	280.70	-0.05	283.20	2.45	281.58	284.78	0.009711	8.89	180.47	34.44	1.24
Stura5	-4	Tr 500	1747.0	274.44	282.94	280.70	-2.24	283.20	0.26	281.93	285.31	0.004081	6.82	256.17	34.83	0.80
Stura5	-5	Tr 50	820.0	273.97	279.14	280.80	1.66	282.74	3.60	278.79	280.96	0.005003	5.98	137.23	30.02	0.89
Stura5	-5	Tr 200	1605.0	273.97	281.91	280.80	-1.11	282.74	0.83	281.23	284.57	0.004676	7.22	222.25	31.04	0.86
Stura5	-5	Tr 500	1747.0	273.97	282.34	280.80	-1.54	282.74	0.40	281.61	285.14	0.004693	7.42	235.53	31.11	0.86

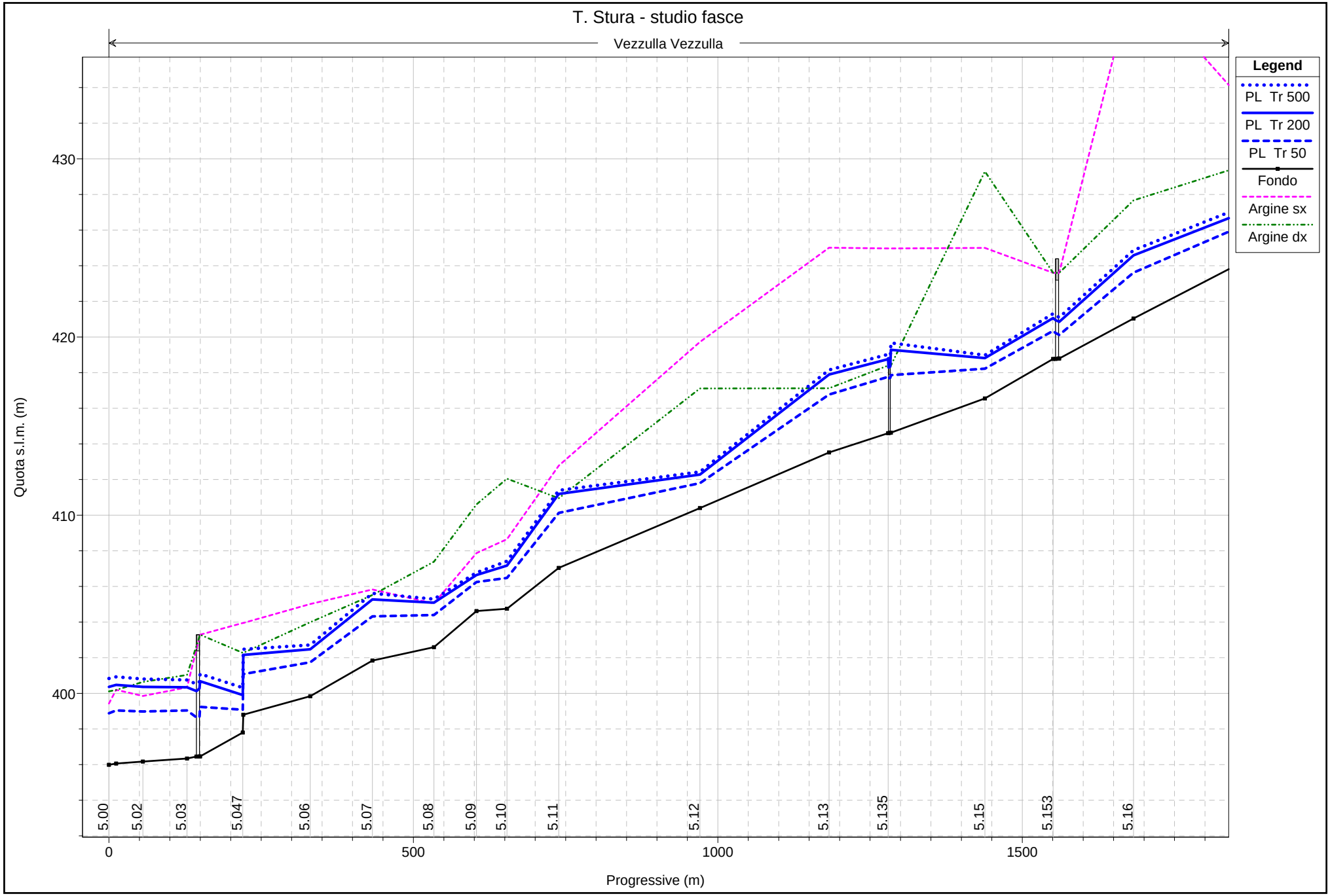
HEC-RAS Plan: 2_VBP2024 (Continued)

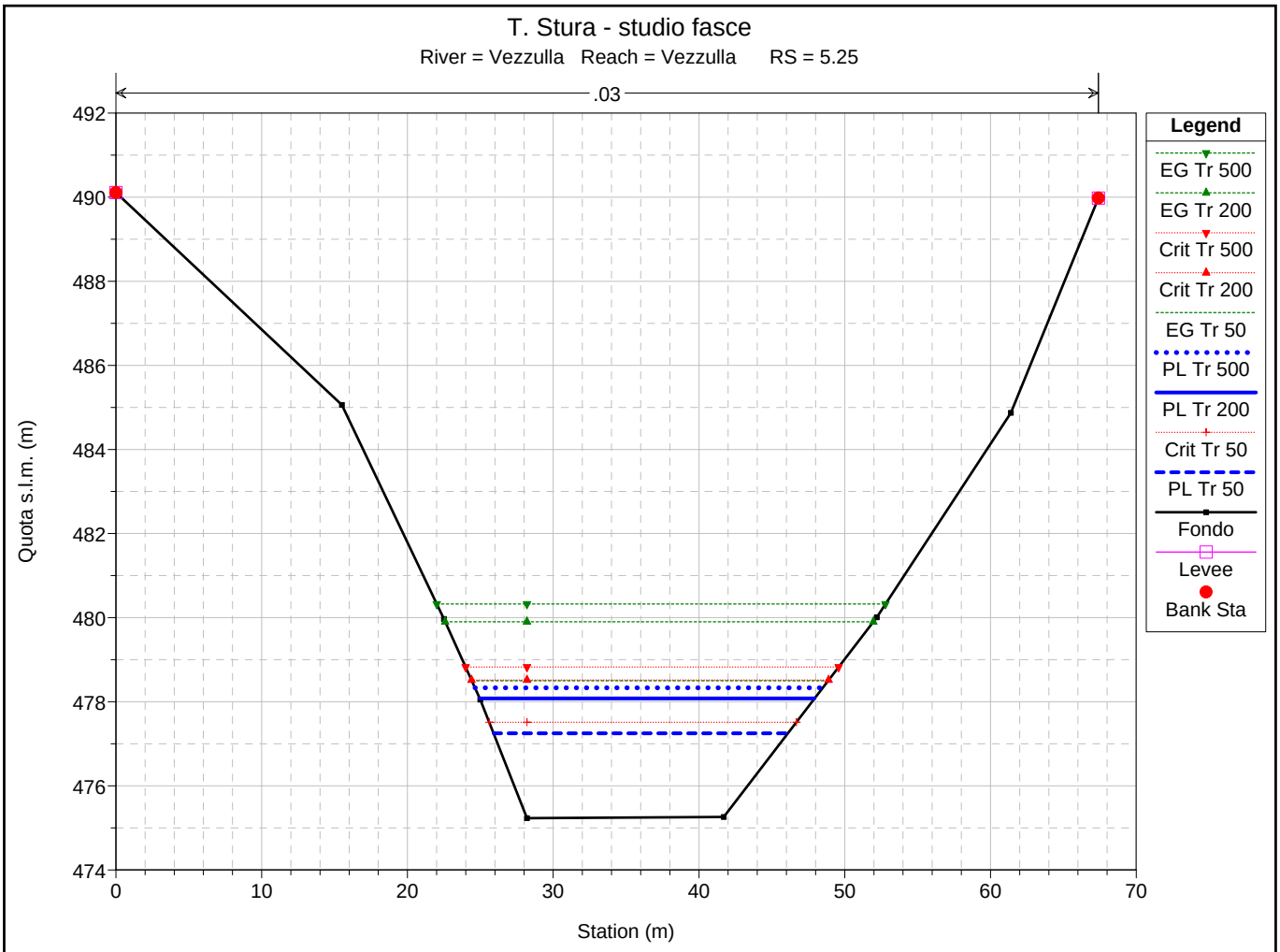
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Stura5	-6	Tr 50	820.0	273.90	278.91	282.00	3.09	282.32	3.41	278.66	280.81	0.005338	6.11	134.22	29.68	0.92
Stura5	-6	Tr 200	1605.0	273.90	281.13	282.00	0.87	282.32	1.19	281.13	284.37	0.006298	7.98	201.08	30.89	1.00
Stura5	-6	Tr 500	1747.0	273.90	281.51	282.00	0.49	282.32	0.81	281.51	284.94	0.006320	8.20	212.96	30.96	1.00
Stura5	-7	Tr 50	820.0	273.87	279.07	283.30	4.23	281.88	2.81	278.35	280.58	0.003997	5.45	150.57	31.20	0.79
Stura5	-7	Tr 200	1605.0	273.87	279.94	283.30	3.36	281.88	1.94	280.71	284.09	0.009335	9.02	177.88	31.53	1.21
Stura5	-7	Tr 500	1747.0	273.87	280.28	283.30	3.02	281.88	1.60	281.12	284.65	0.009308	9.26	188.62	31.66	1.21
Stura5	-8	Tr 50	820.0	273.79	279.07	291.50	12.43	281.50	2.43	278.24	280.44	0.003643	5.19	157.86	32.84	0.76
Stura5	-8	Tr 200	1605.0	273.79	279.64	291.50	11.86	281.50	1.86	280.54	283.84	0.009937	9.08	176.83	33.07	1.25
Stura5	-8	Tr 500	1747.0	273.79	281.08	291.50	10.42	281.50	0.41	280.90	284.15	0.005831	7.76	225.17	33.76	0.96
Stura5	-9	Tr 50	820.0	273.46	278.26	292.70	14.44	281.09	2.83	278.26	280.26	0.006121	6.26	131.02	32.75	1.00
Stura5	-9	Tr 200	1605.0	273.46	280.61	292.70	12.09	281.09	0.48	280.61	283.49	0.005866	7.51	213.63	37.00	1.00
Stura5	-9	Tr 500	1747.0	273.46	280.95	292.70	11.75	281.09	0.14	280.95	284.00	0.005873	7.73	226.07	37.06	1.00
Stura5	-10	Tr 50	820.0	272.83	276.18	293.56	17.38	280.66	4.48	277.25	279.84	0.017653	8.47	96.76	35.36	1.64
Stura5	-10	Tr 200	1605.0	272.83	277.98	293.56	15.58	280.66	2.68	279.40	283.05	0.013977	9.97	161.02	35.86	1.50
Stura5	-10	Tr 500	1747.0	272.83	278.29	293.56	15.27	280.66	2.37	279.77	283.55	0.013566	10.16	171.94	35.95	1.48
Stura5	-11	Tr 50	820.0	272.27	275.44	297.19	21.75	280.26	4.82	276.62	279.35	0.021234	8.75	93.67	39.31	1.81
Stura5	-11	Tr 200	1605.0	272.27	276.88	297.19	20.31	280.26	3.38	278.62	282.60	0.018313	10.59	151.53	41.15	1.76
Stura5	-11	Tr 500	1747.0	272.27	277.11	297.19	20.08	280.26	3.15	278.94	283.10	0.017973	10.84	161.17	41.45	1.76
Stura5	-12	Tr 50	820.0	271.91	275.10	301.02	25.92	279.81	4.71	276.20	278.75	0.019759	8.47	96.85	40.82	1.76
Stura5	-12	Tr 200	1605.0	271.91	276.41	301.02	24.61	279.81	3.39	278.15	282.12	0.018741	10.58	151.66	42.42	1.79
Stura5	-12	Tr 500	1747.0	271.91	276.63	301.02	24.39	279.81	3.17	278.46	282.64	0.018481	10.85	161.01	42.69	1.78

Torrente Vezzulla

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati


T. Stura - studio fasce
Vezzulla Vezzulla
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine sx
Argine dx
Quota s.l.m. (m)
480
460
440
420
5.165
5.18
5.19
5.20
5.21
5.22
5.23
5.24
5.25
1800
2000
2200
2400
2600
2800
3000
3200
Progressive (m)


T. Stura - studio fasce
Vezzulla Vezzulla
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine sx
Argine dx
Quota s.l.m. (m)
430
420
410
400
0
500
1000
1500
Progressive (m)
5.00
5.02
5.03
5.047
5.06
5.07
5.08
5.09
5.10
5.11
5.12
5.13
5.135
5.15
5.153
5.16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River = Vezzulla Reach = Vezzulla RS = 5.25
.03
Quota s.l.m. (m)
Station (m)
Legend
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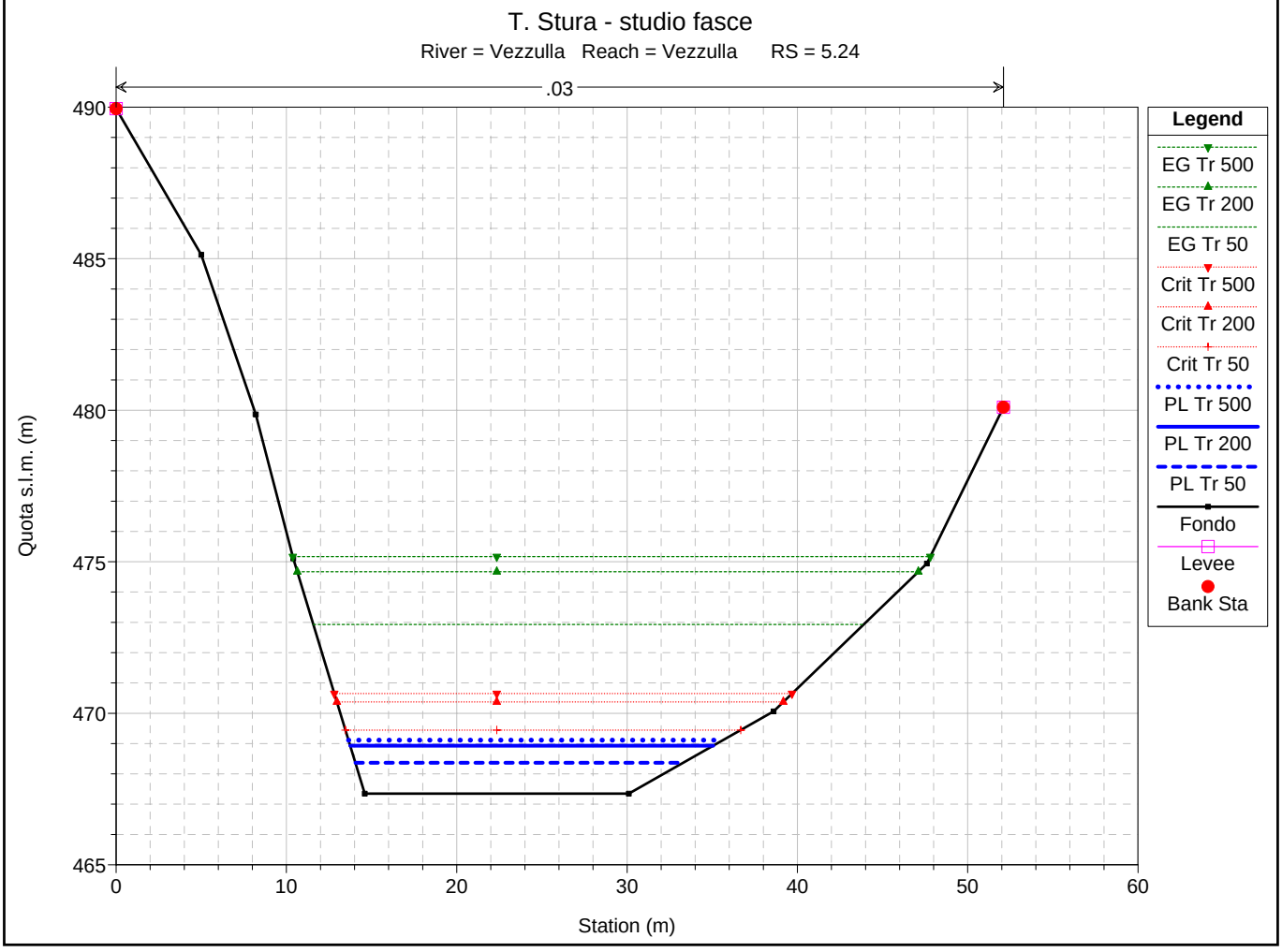
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta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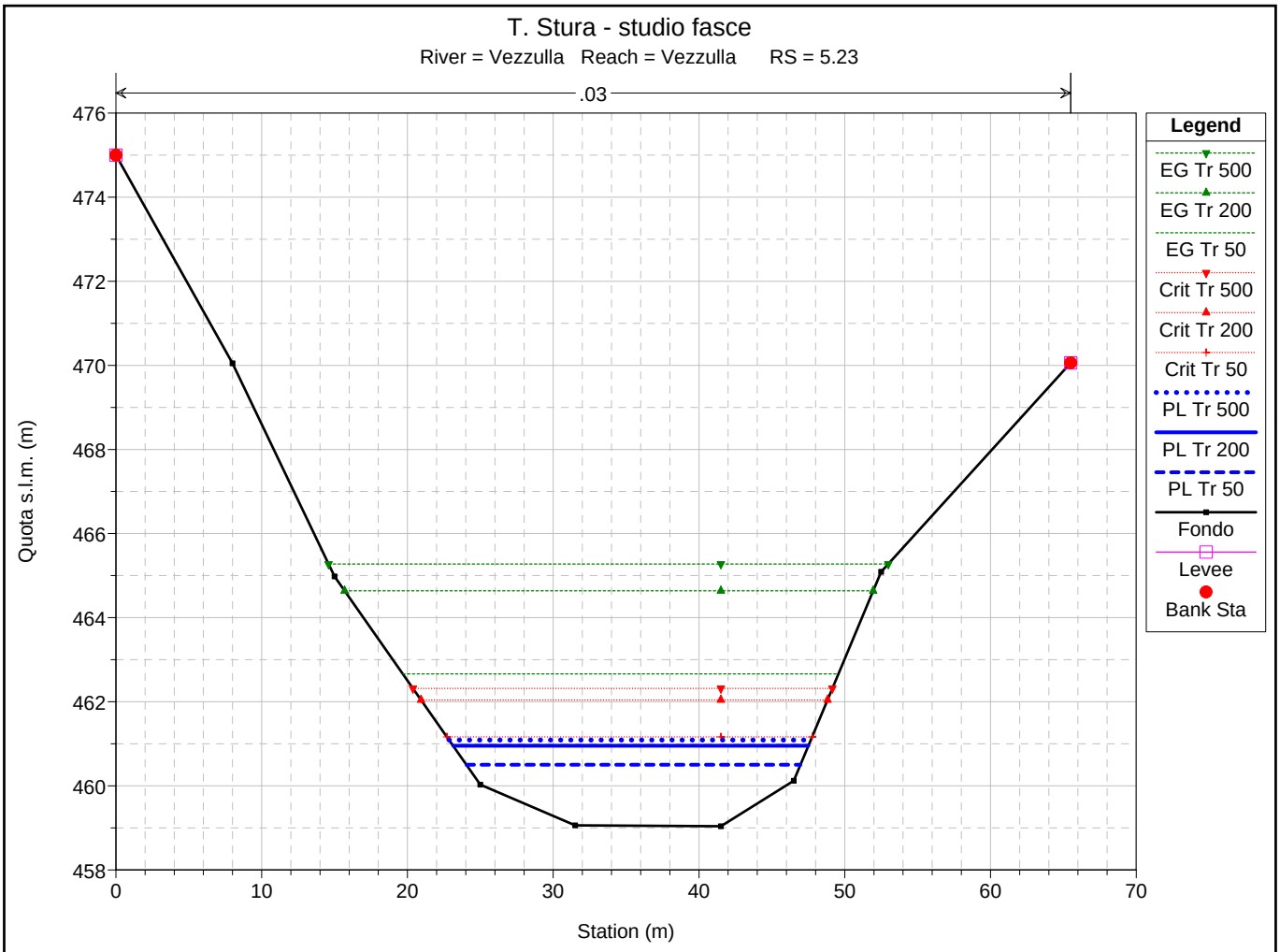
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta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.03
Quota s.l.m. (m)
Station (m)
Legend
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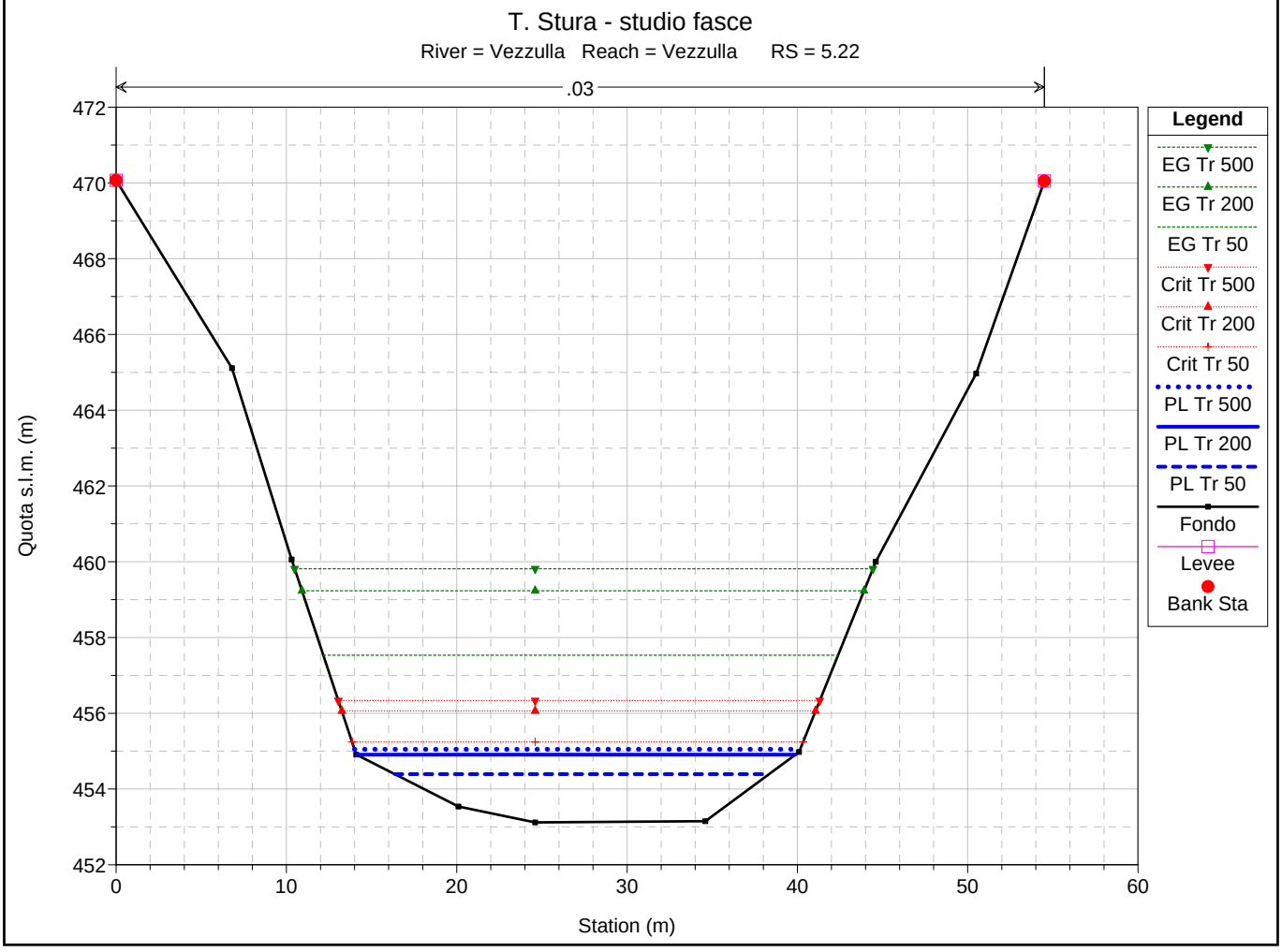
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta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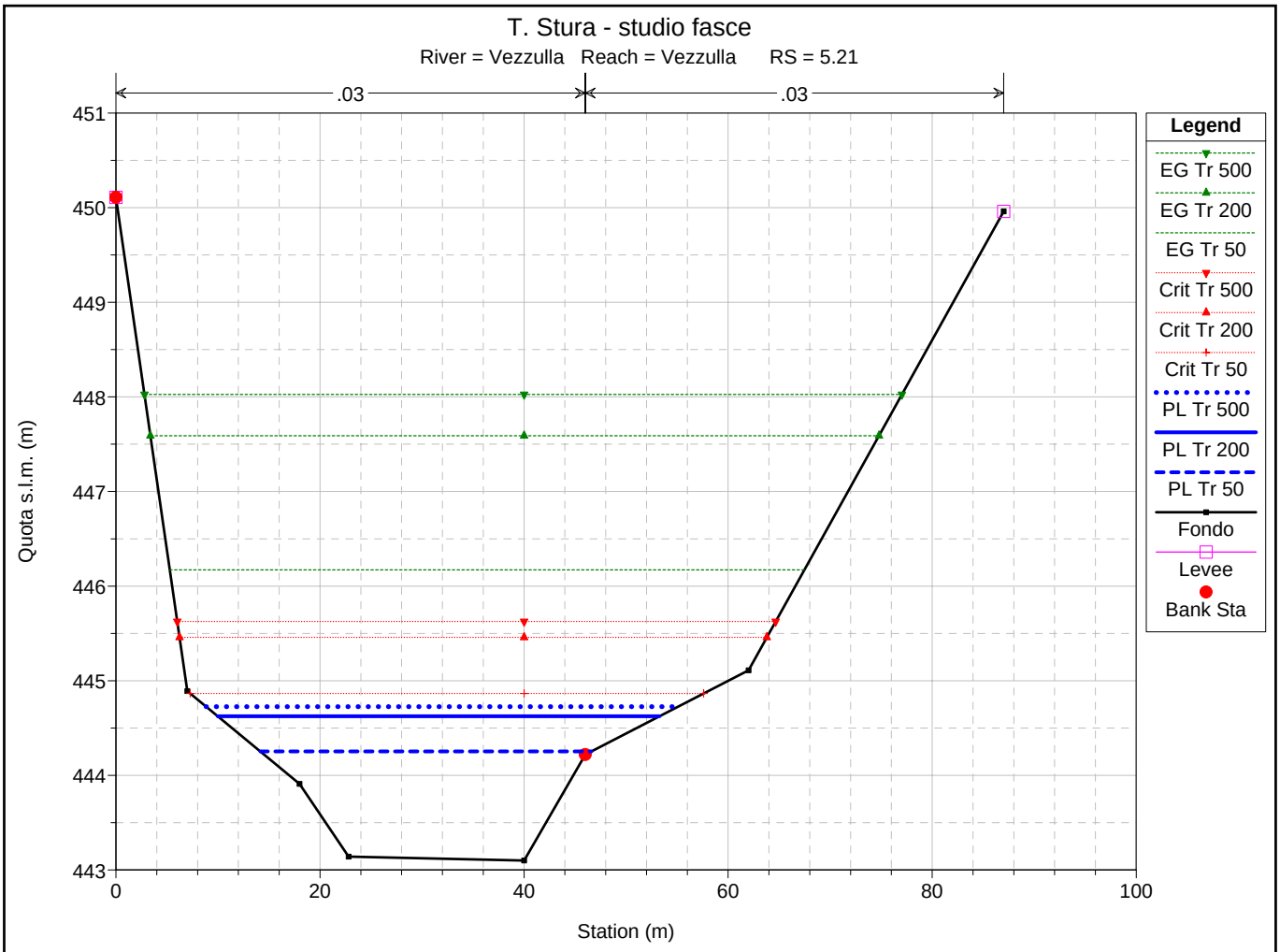
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta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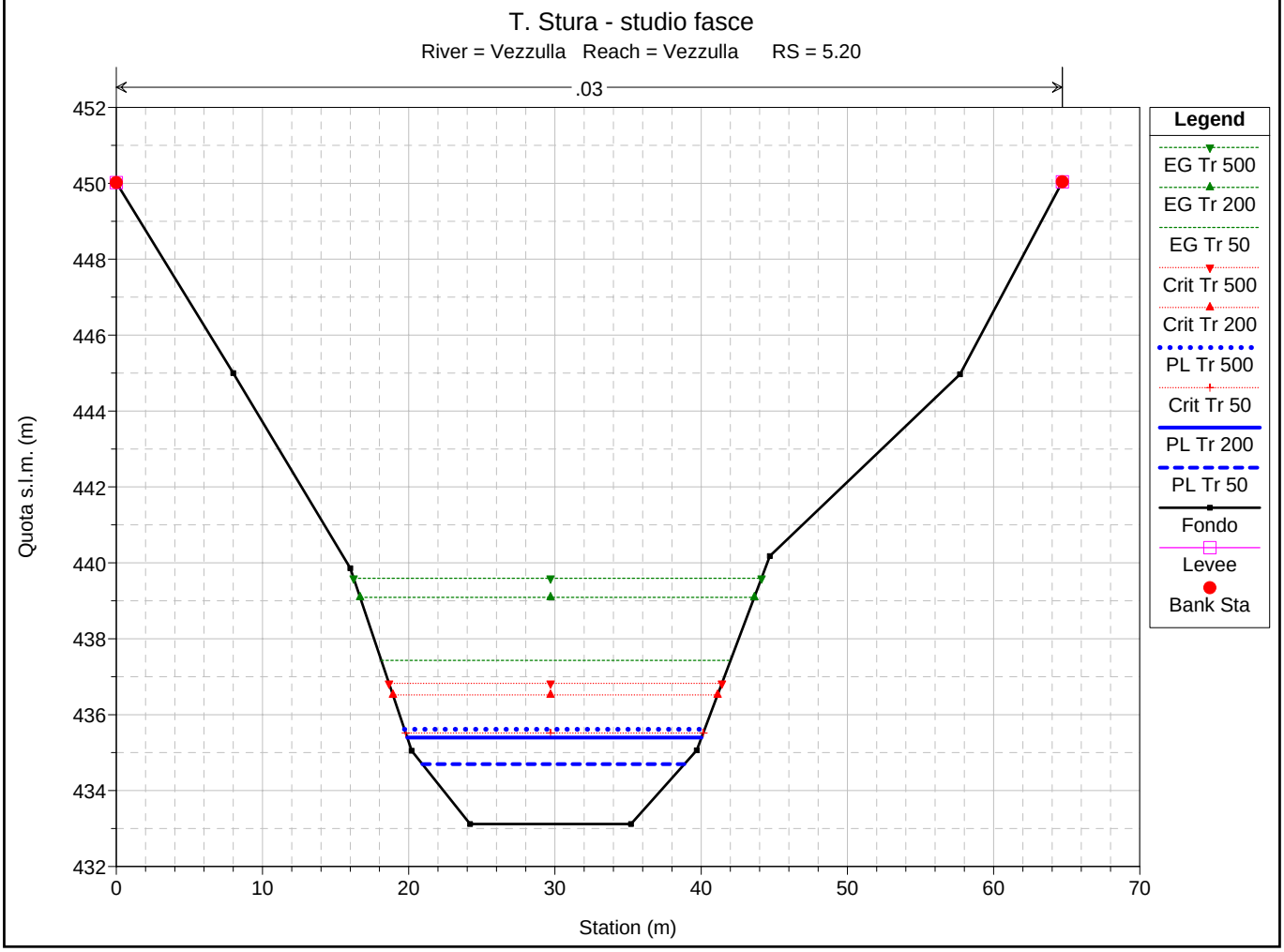
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta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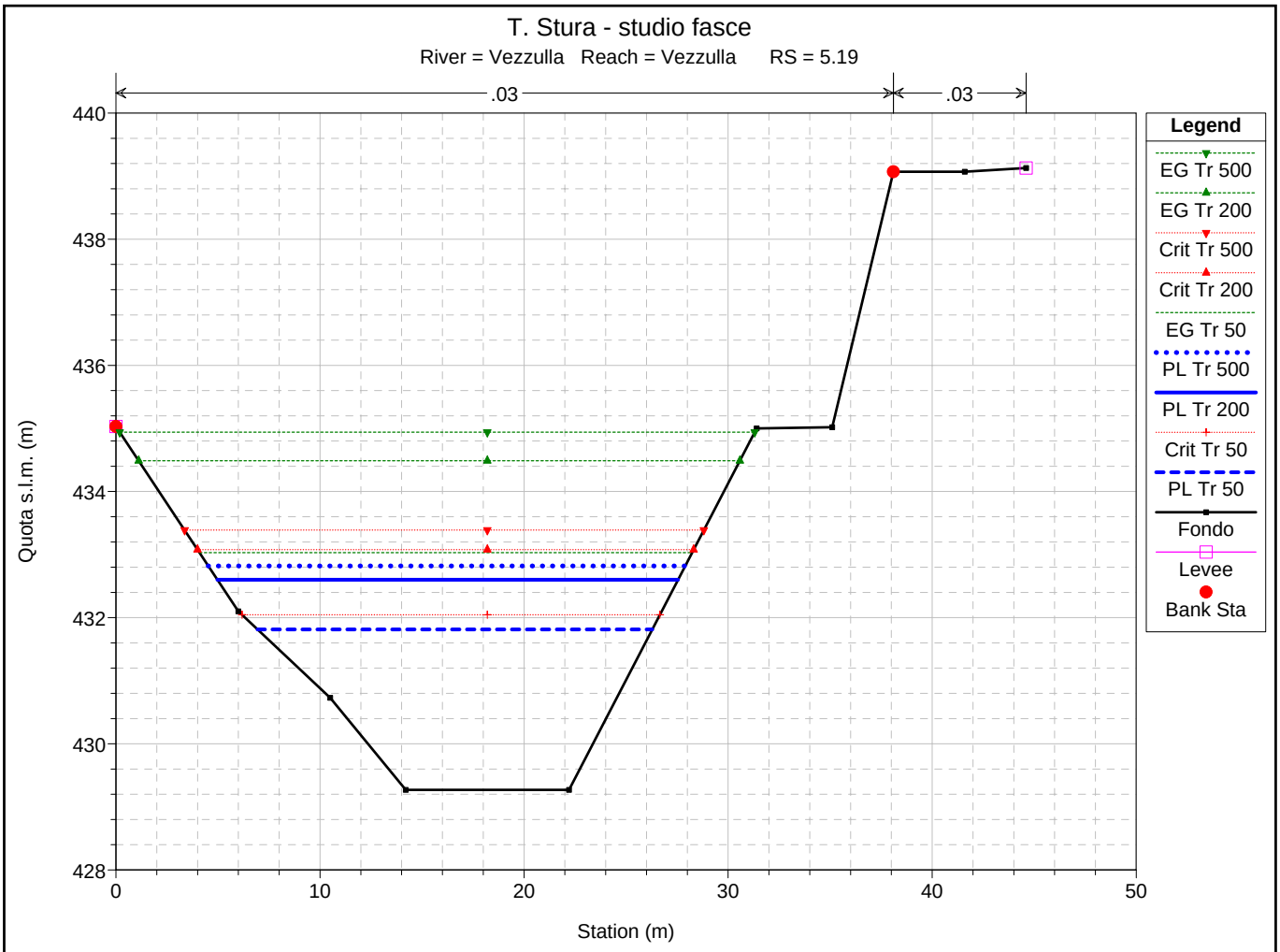
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta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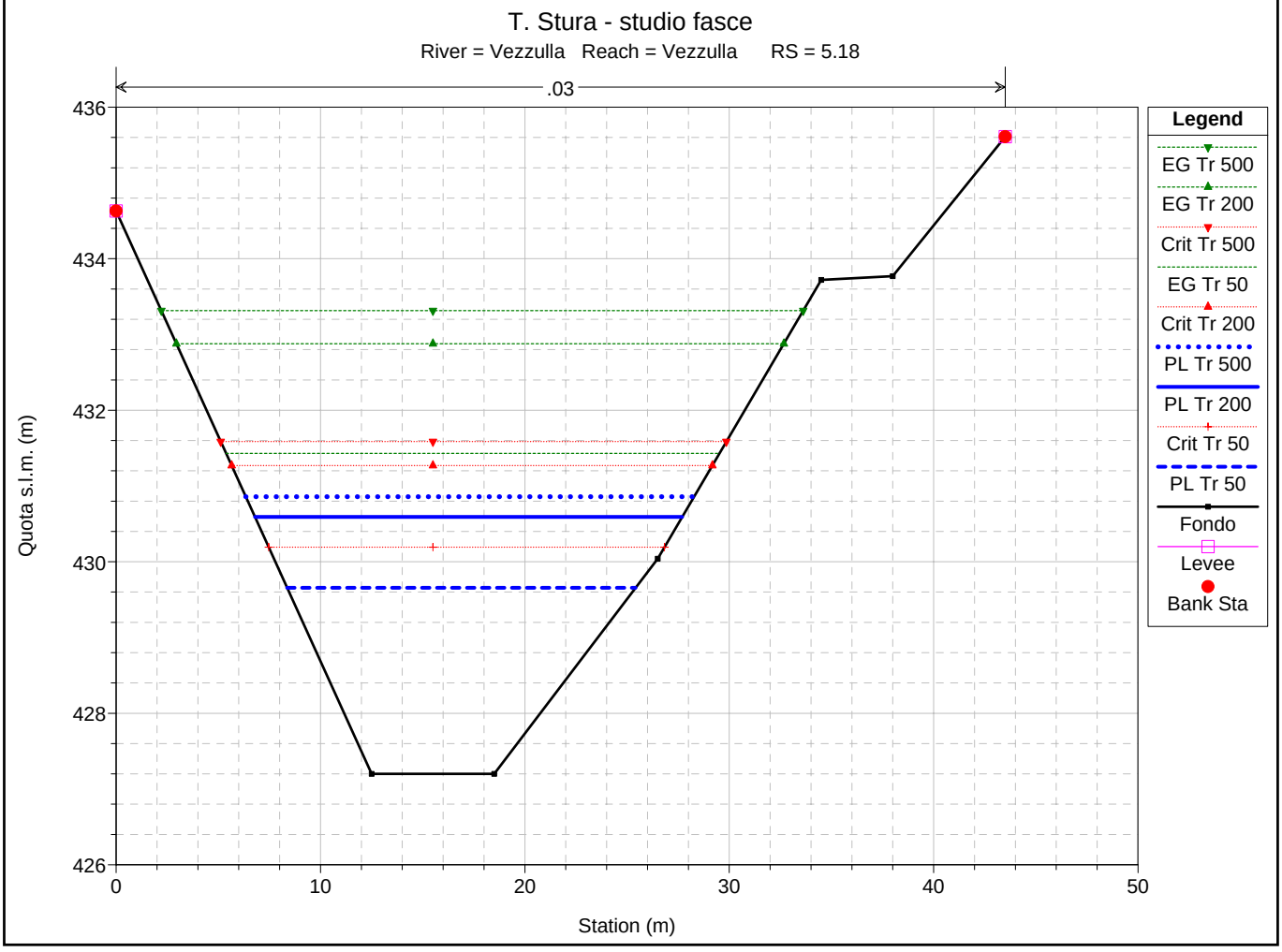
River = Vezzulla Reach = Vezzulla RS = 5.19
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta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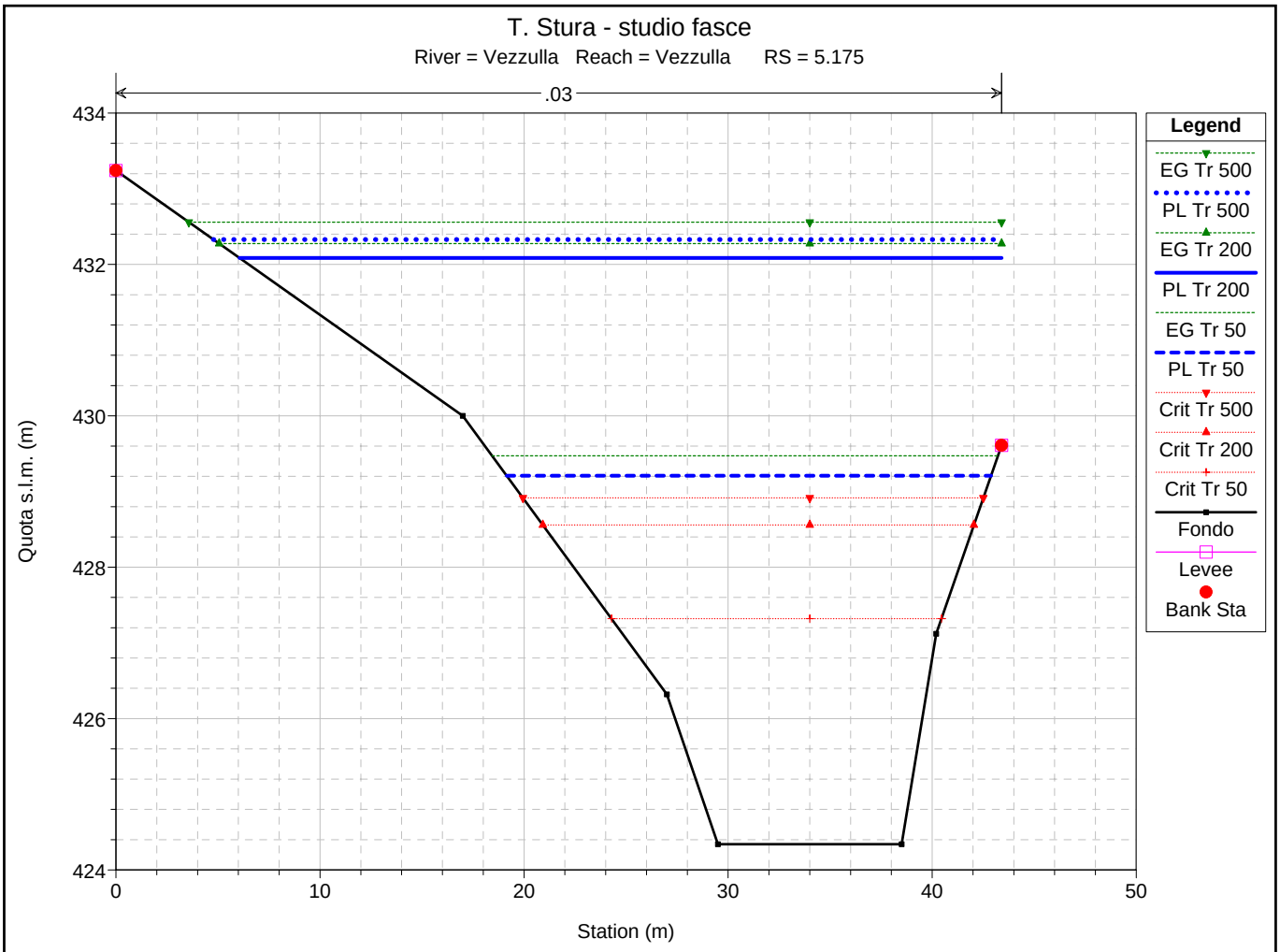
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta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River = Vezzulla Reach = Vezzulla RS = 5.175
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Quota s.l.m. (m)
Station (m)
Legend
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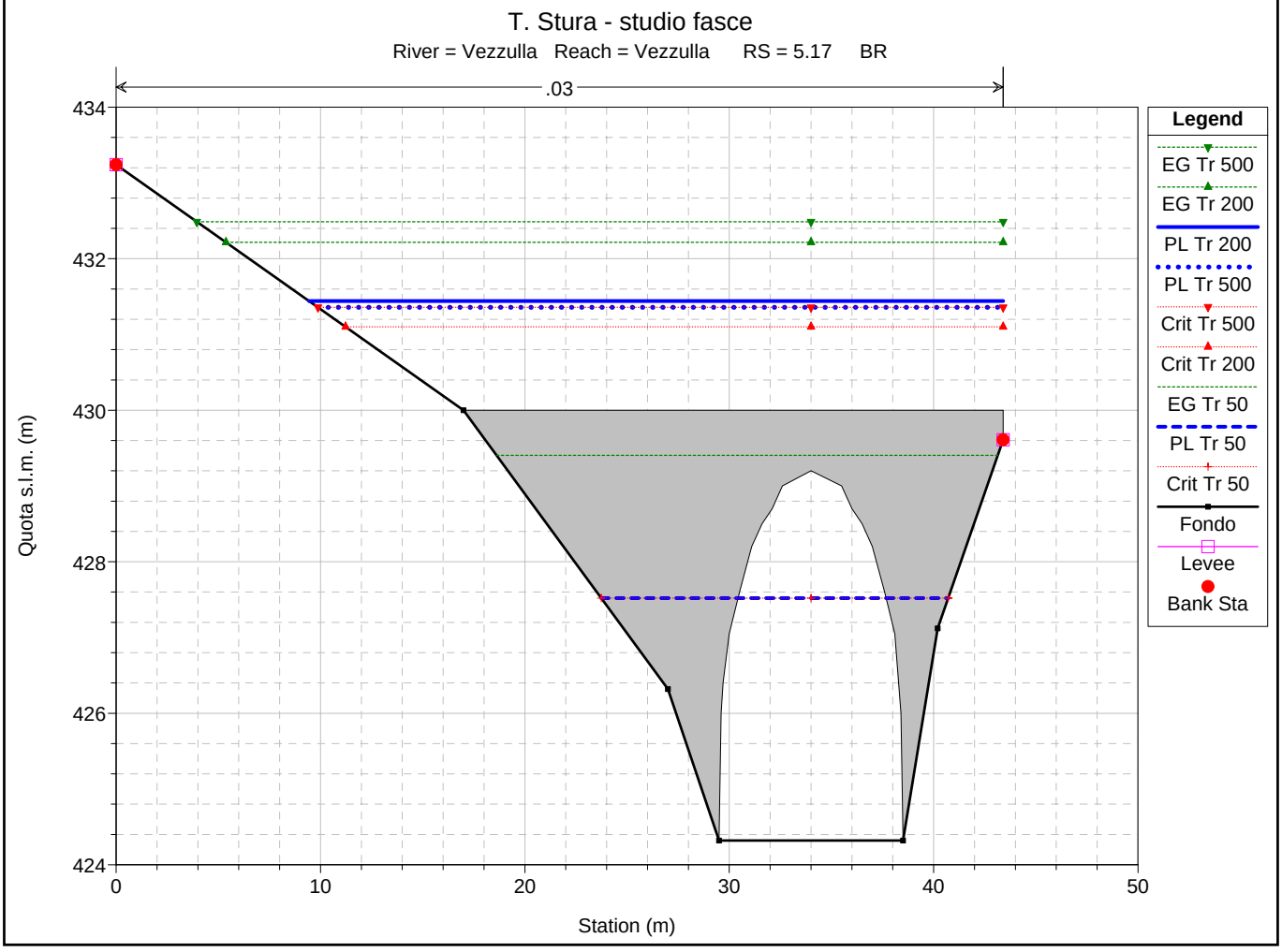
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta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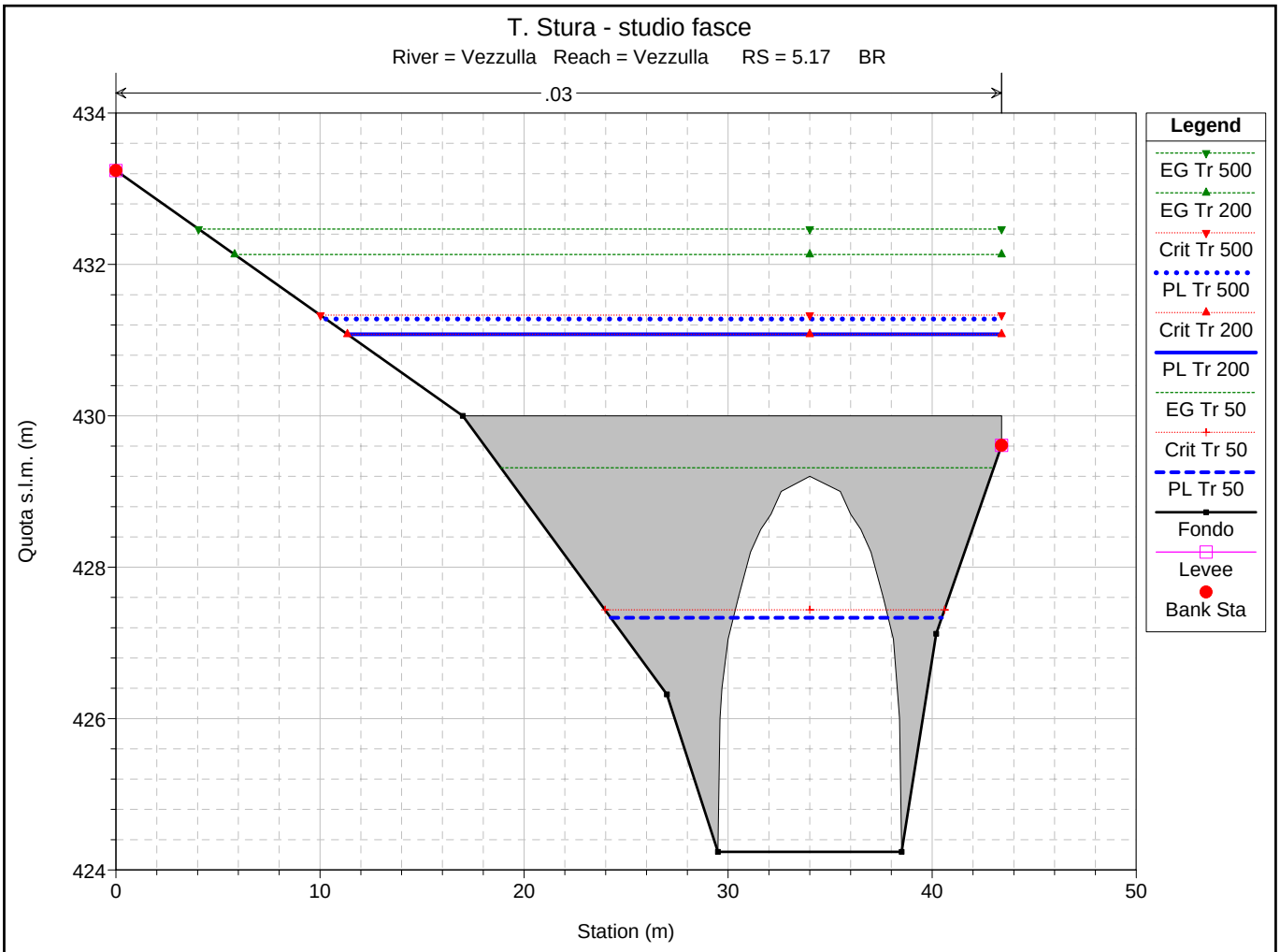
River = Vezzulla Reach = Vezzulla RS = 5.17 BR
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta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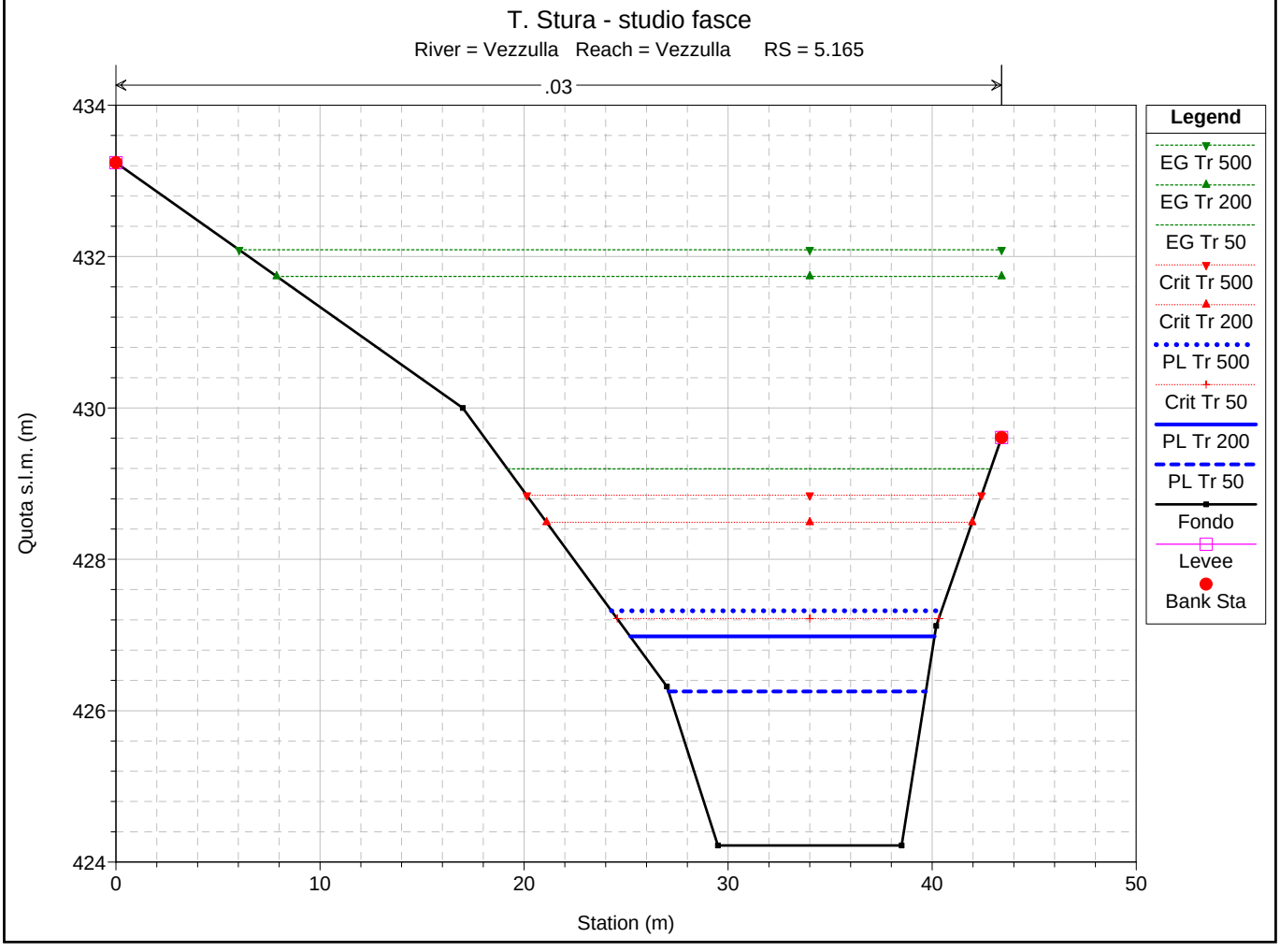
River = Vezzulla Reach = Vezzulla RS = 5.17 BR
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
PL Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta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.03
Quota s.l.m. (m)
Station (m)
Legend
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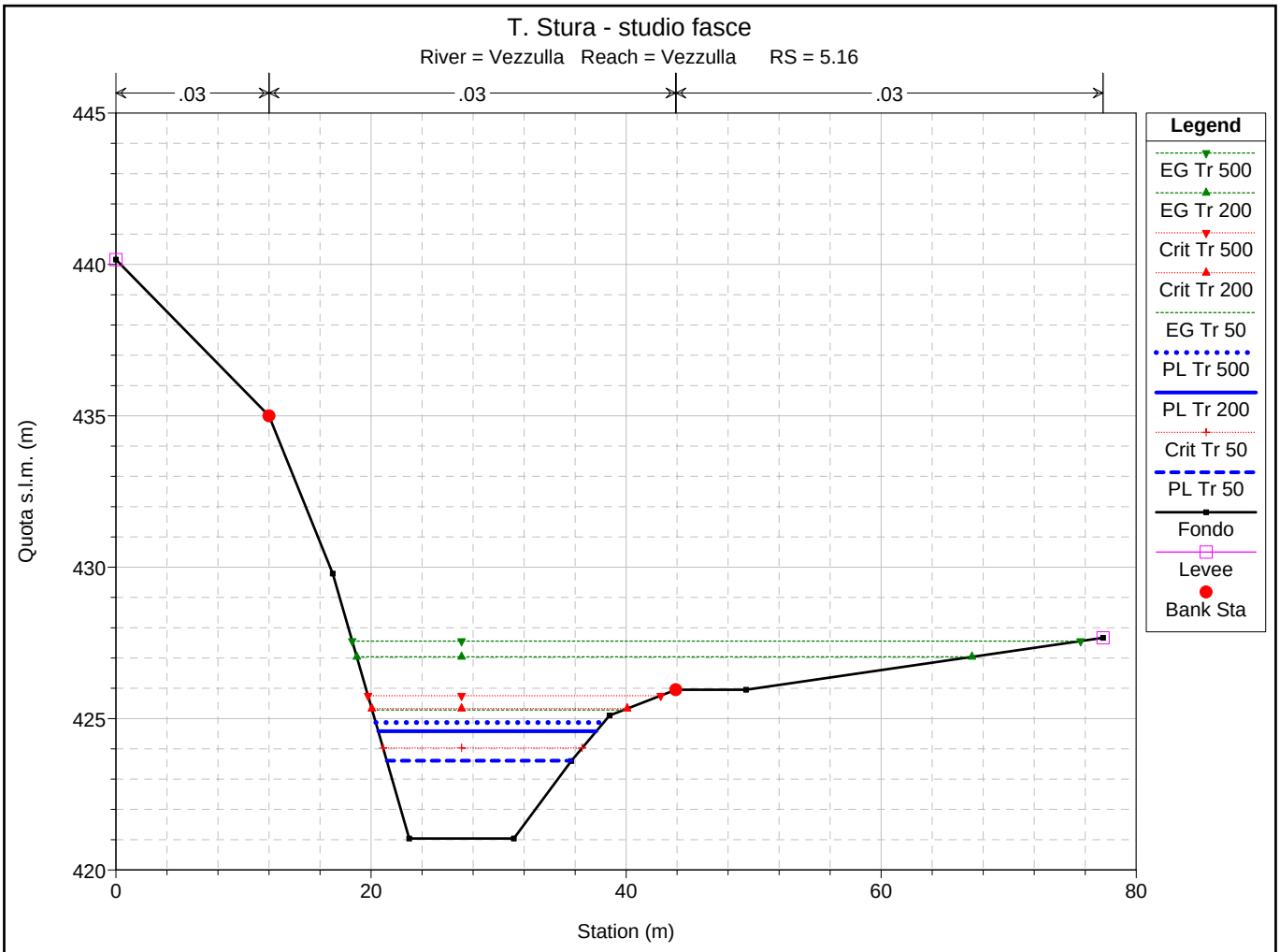
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta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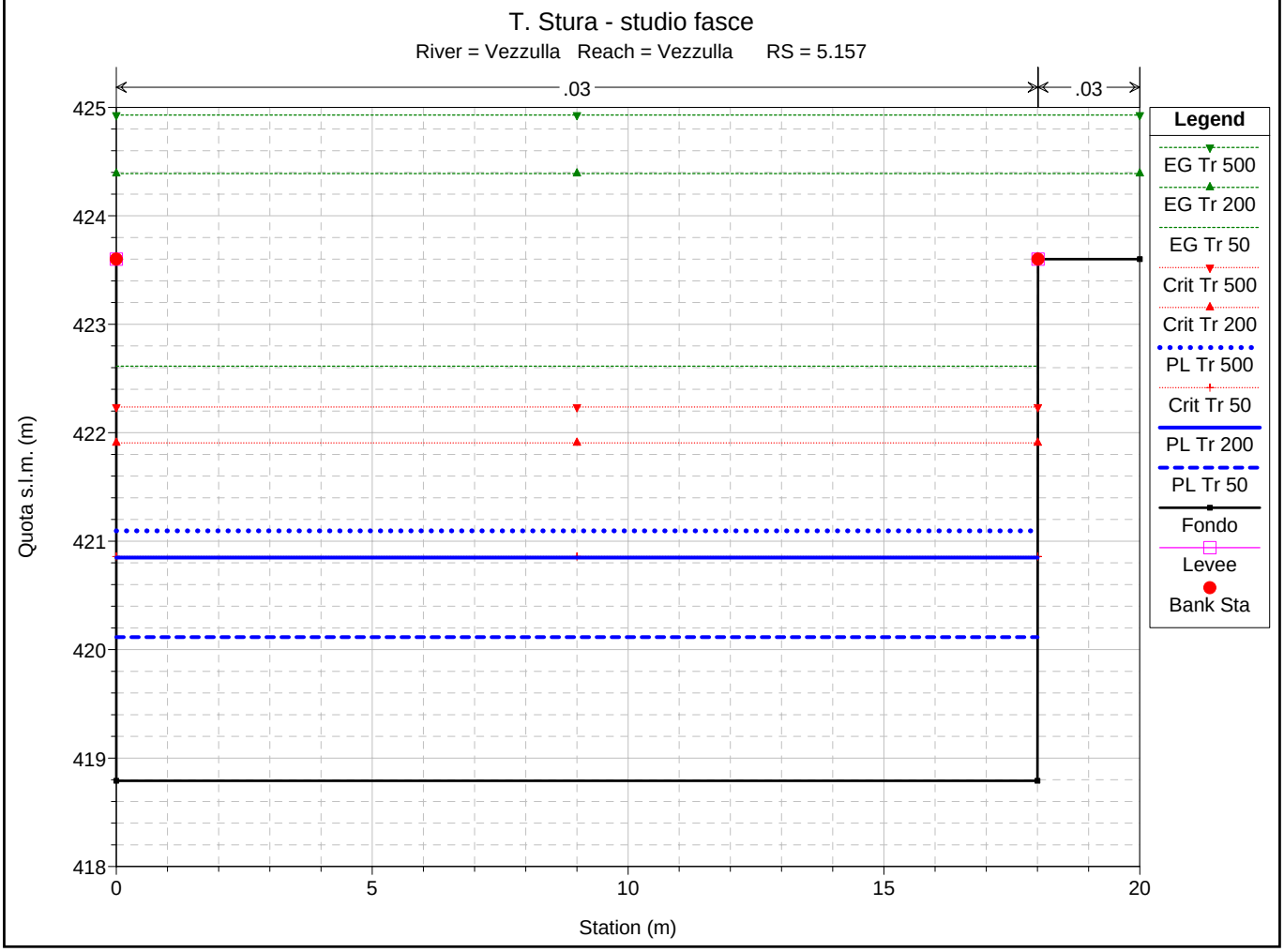
River = Vezzulla Reach = Vezzulla RS = 5.16
.03
.03
.03
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)
445
440
435
430
425
420
0
20
40
60
80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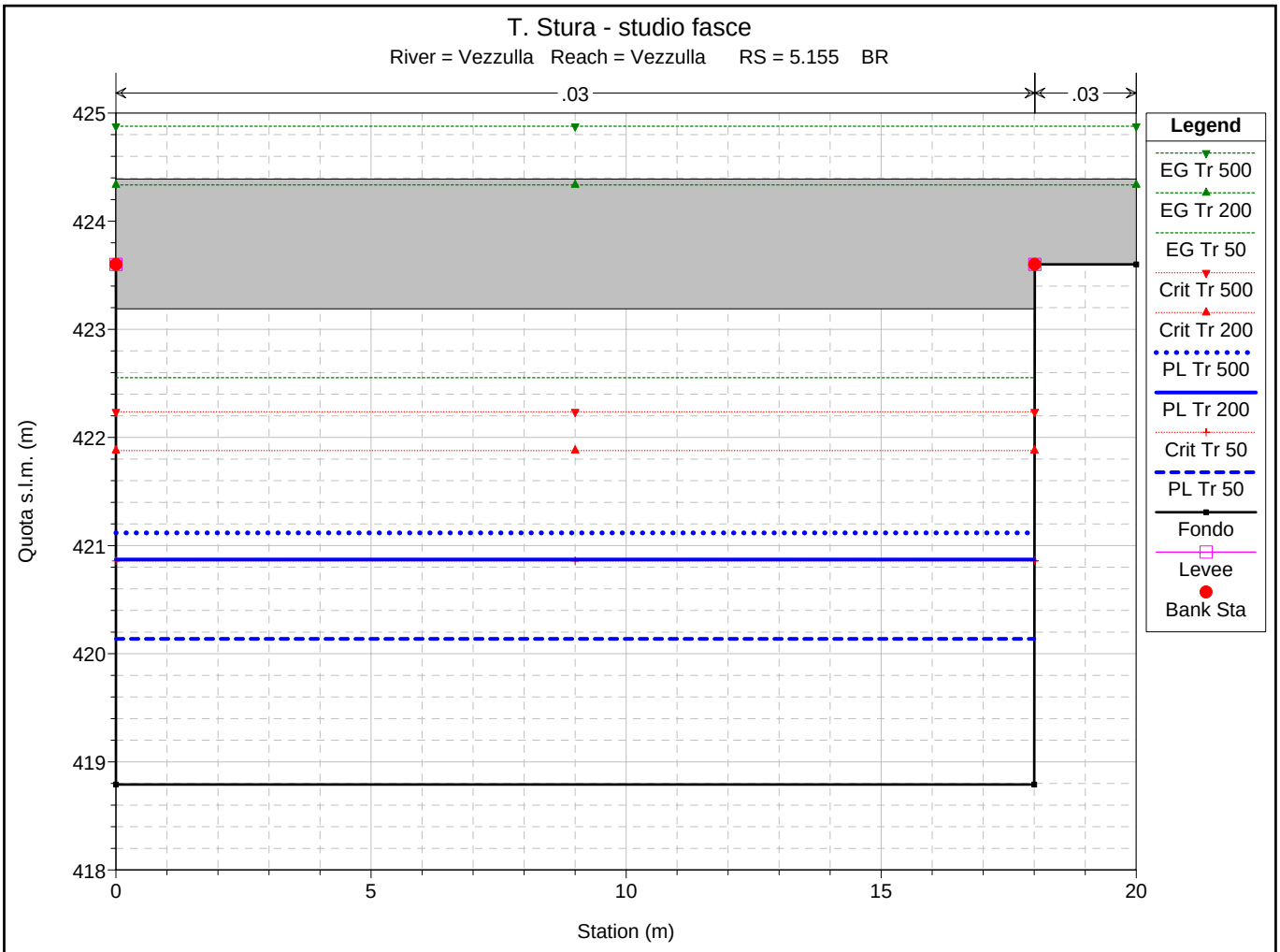
.03
.03
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)
425
424
423
422
421
420
419
418
0
5
10
15
20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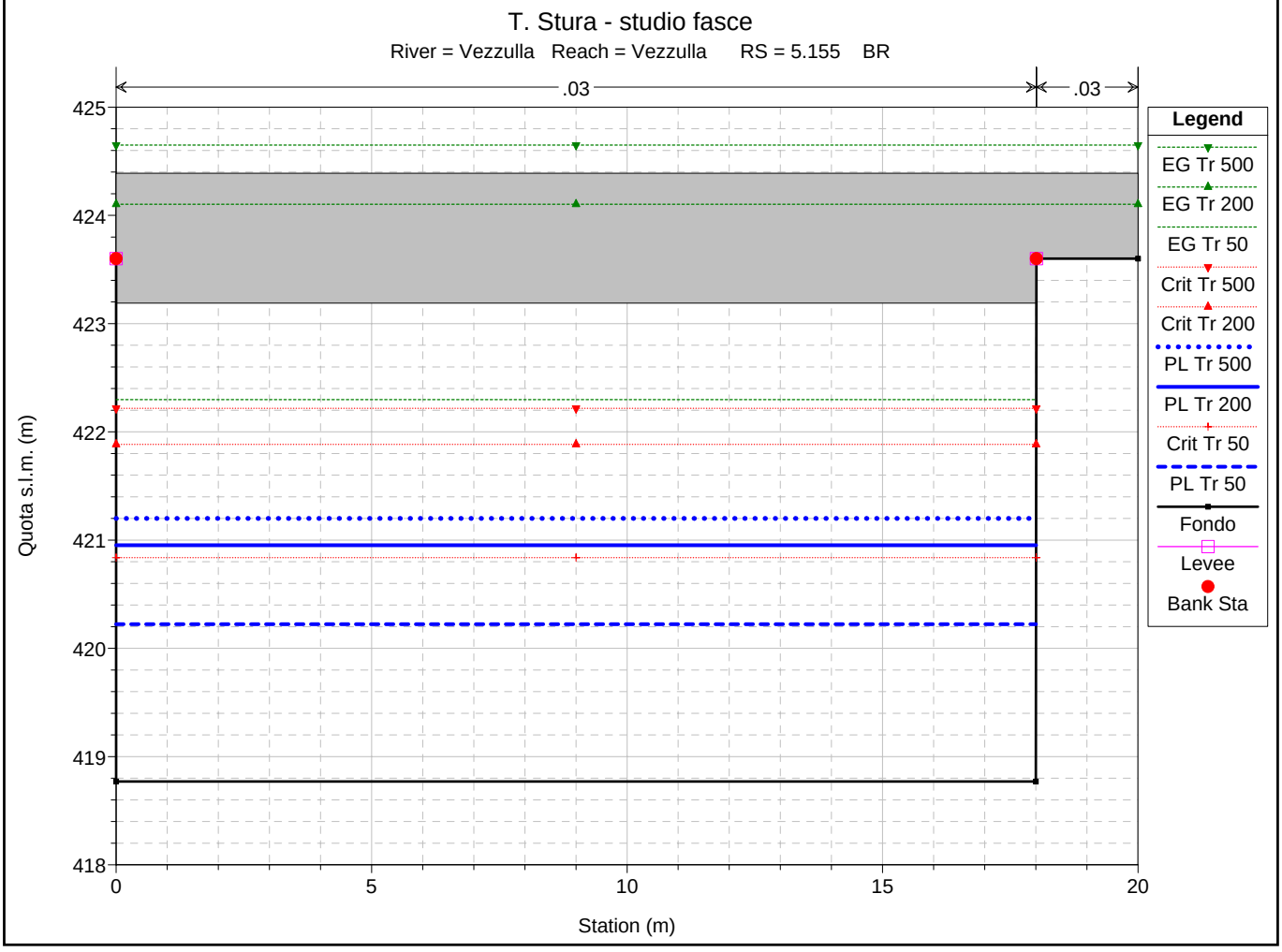
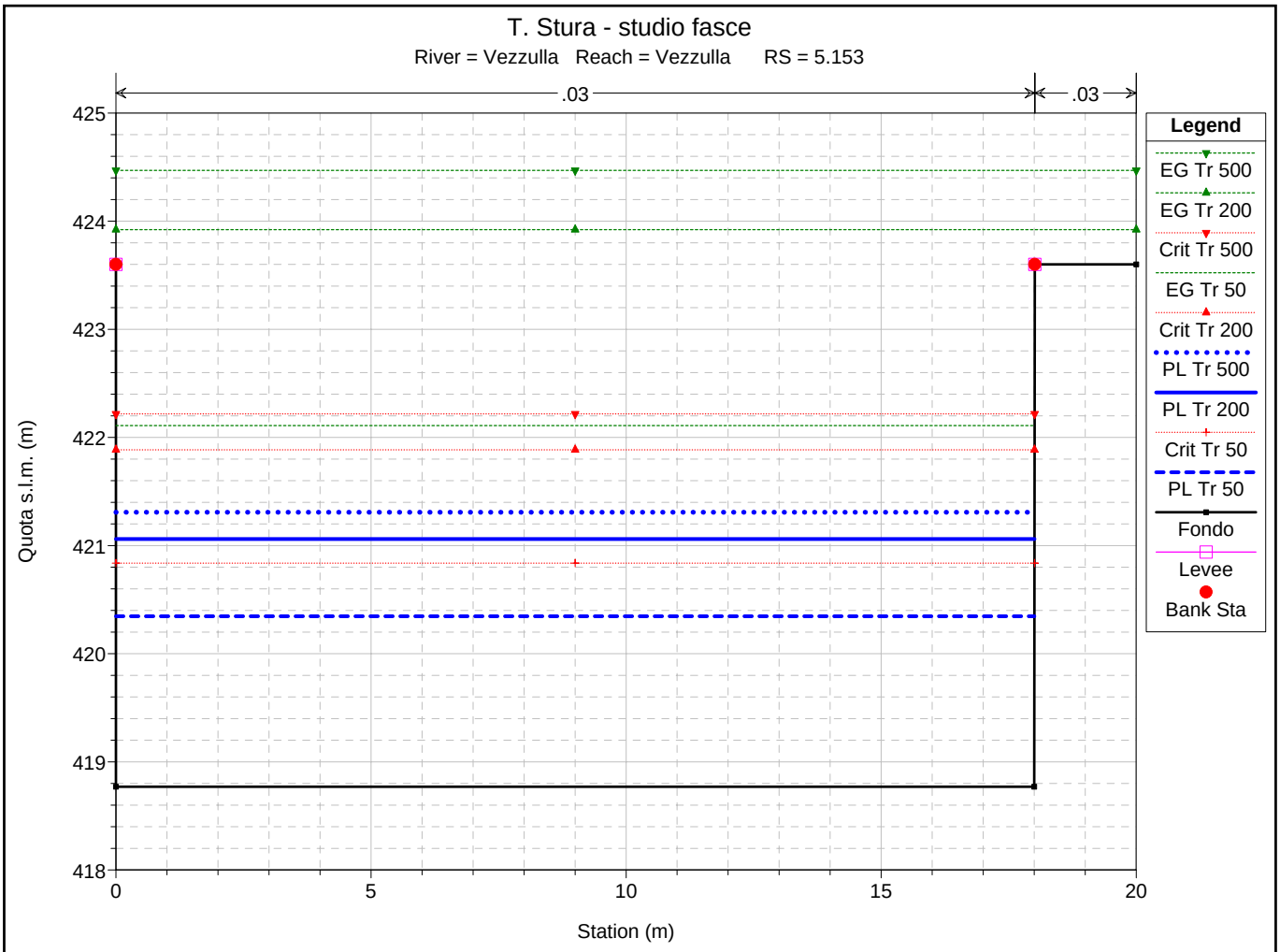
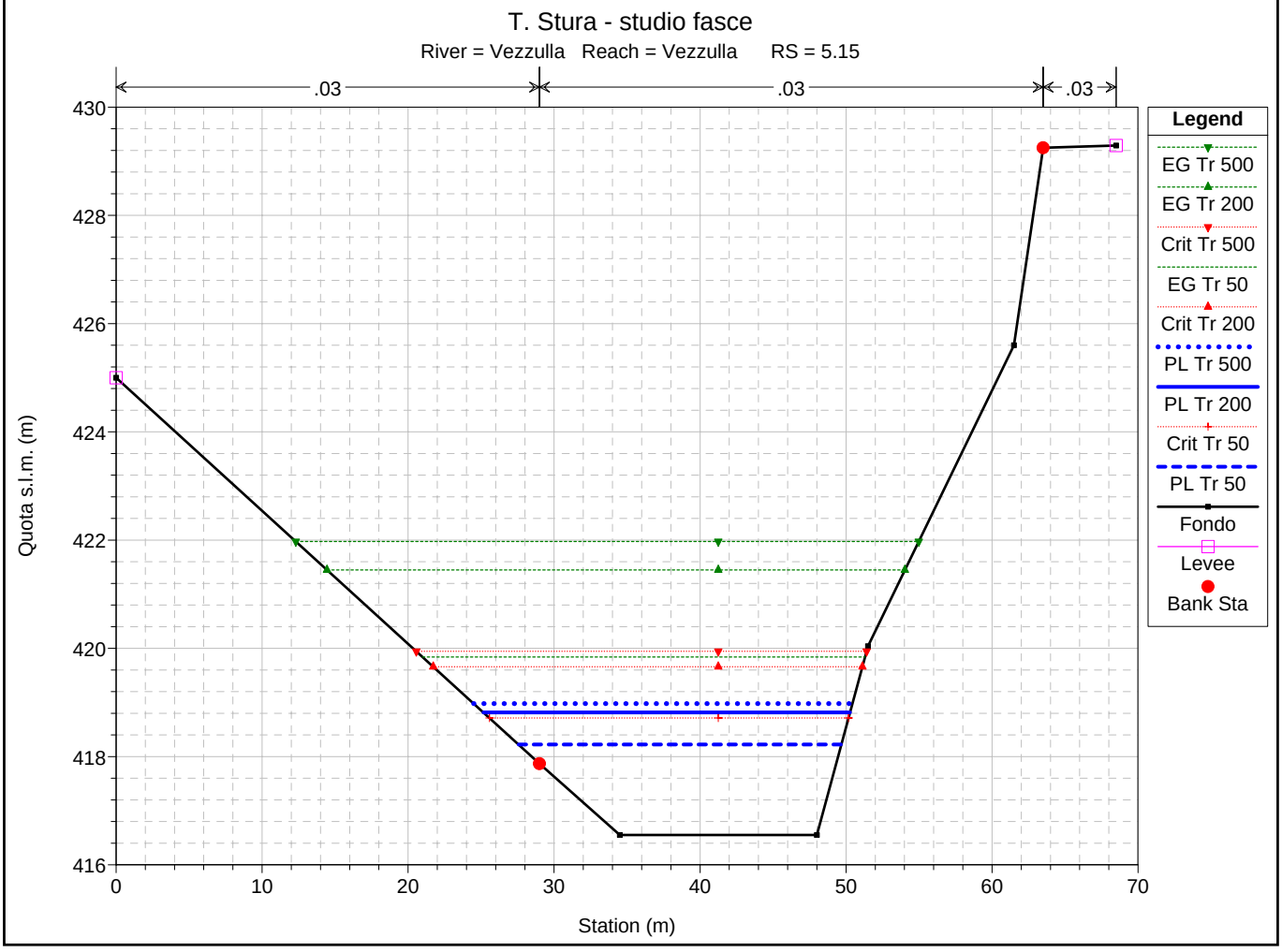
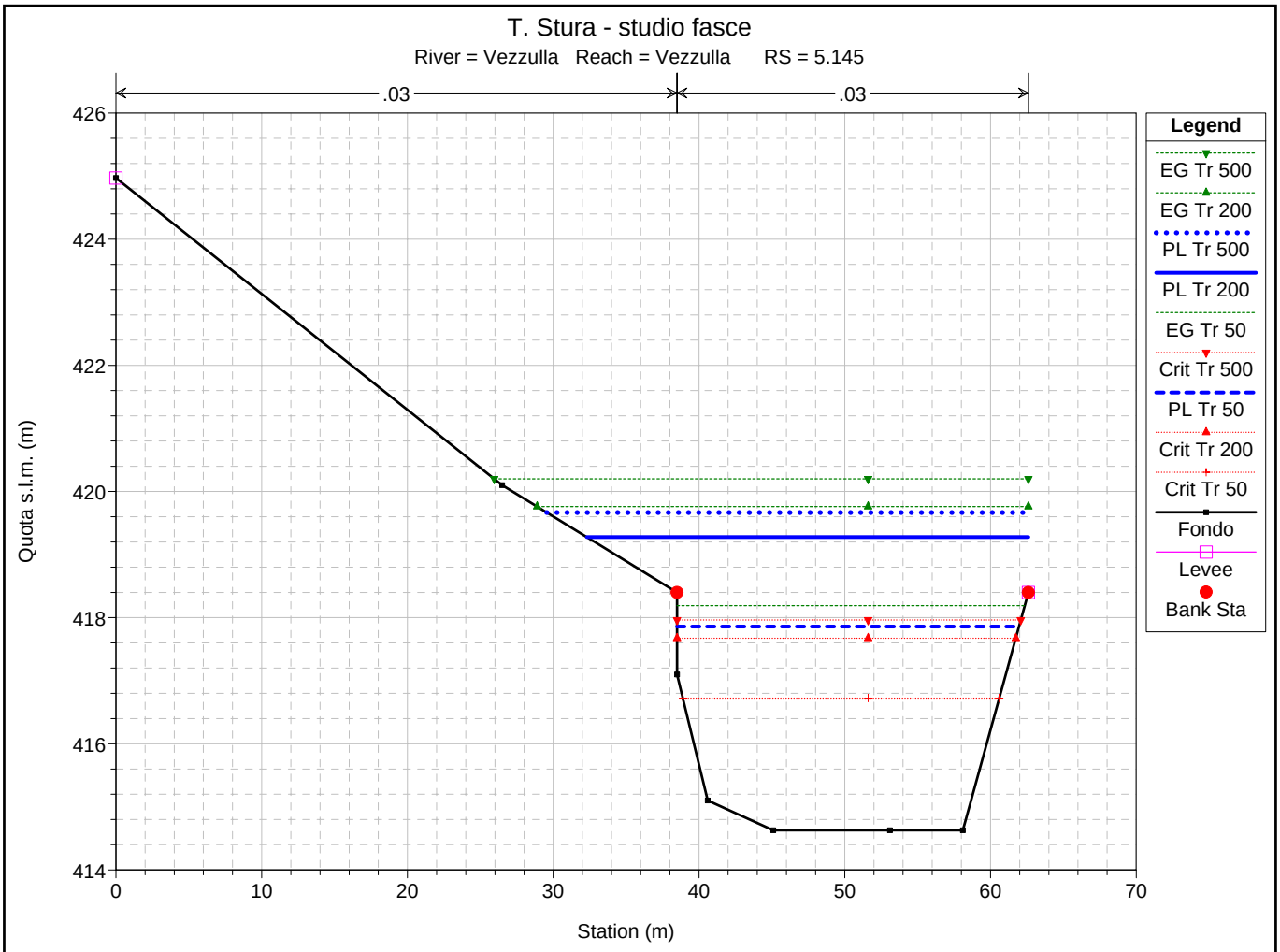
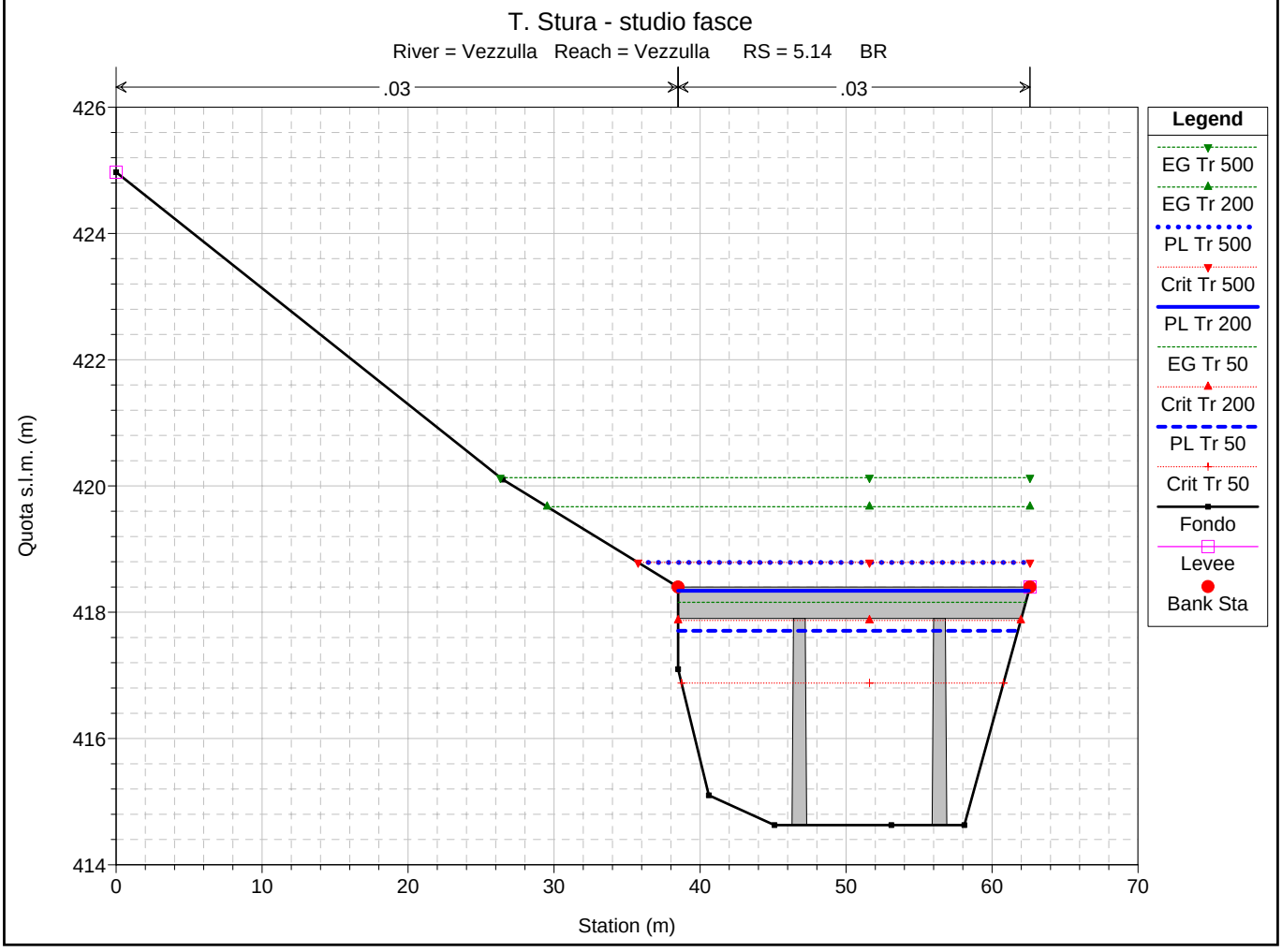
.03
.03
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
425
424
423
422
421
420
419
418
0
5
10
15
20
Station (m)

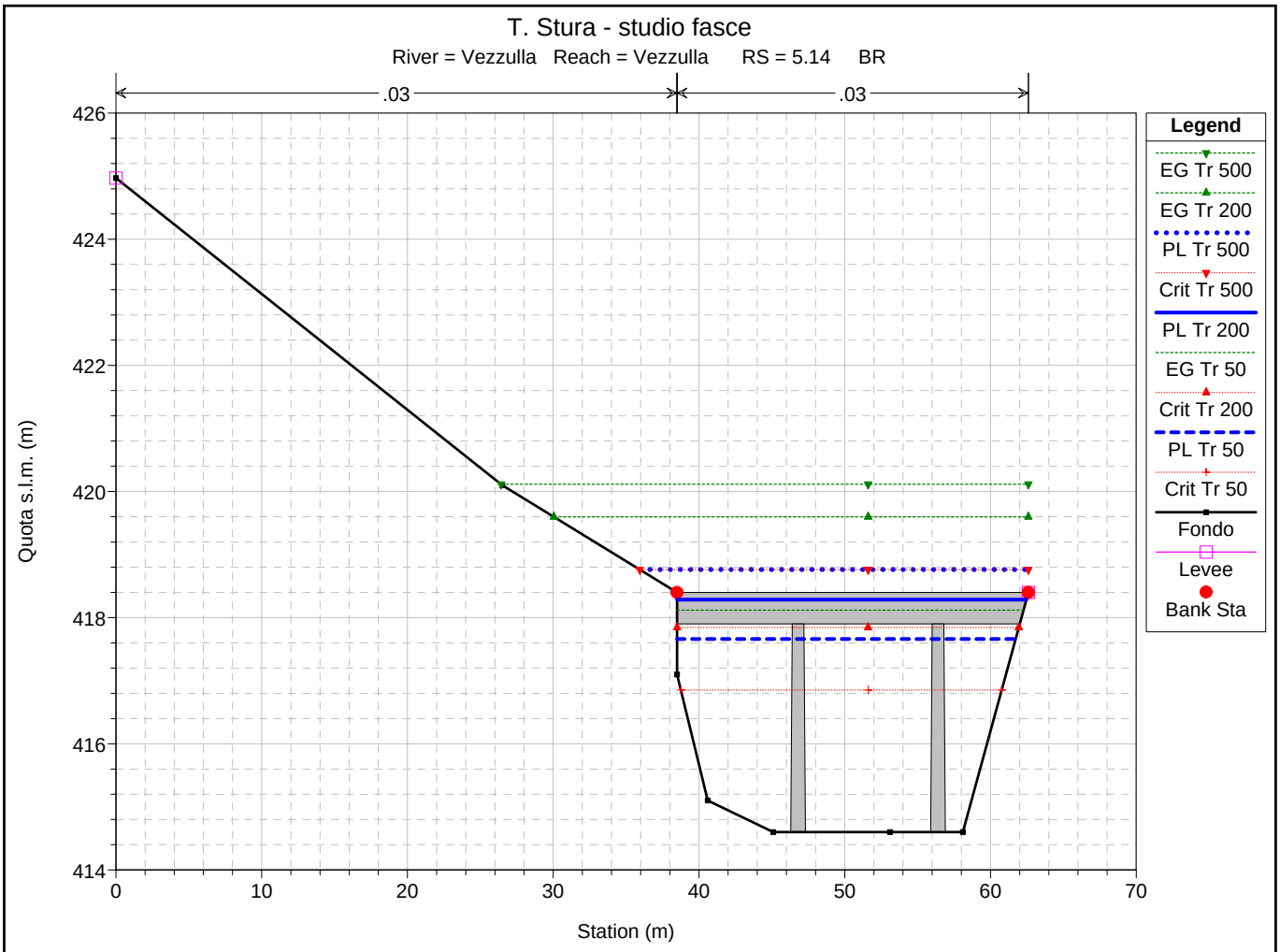

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.155 BR
.03
.03
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
425
424
423
422
421
420
419
418
0
5
10
15
20
Station (m)

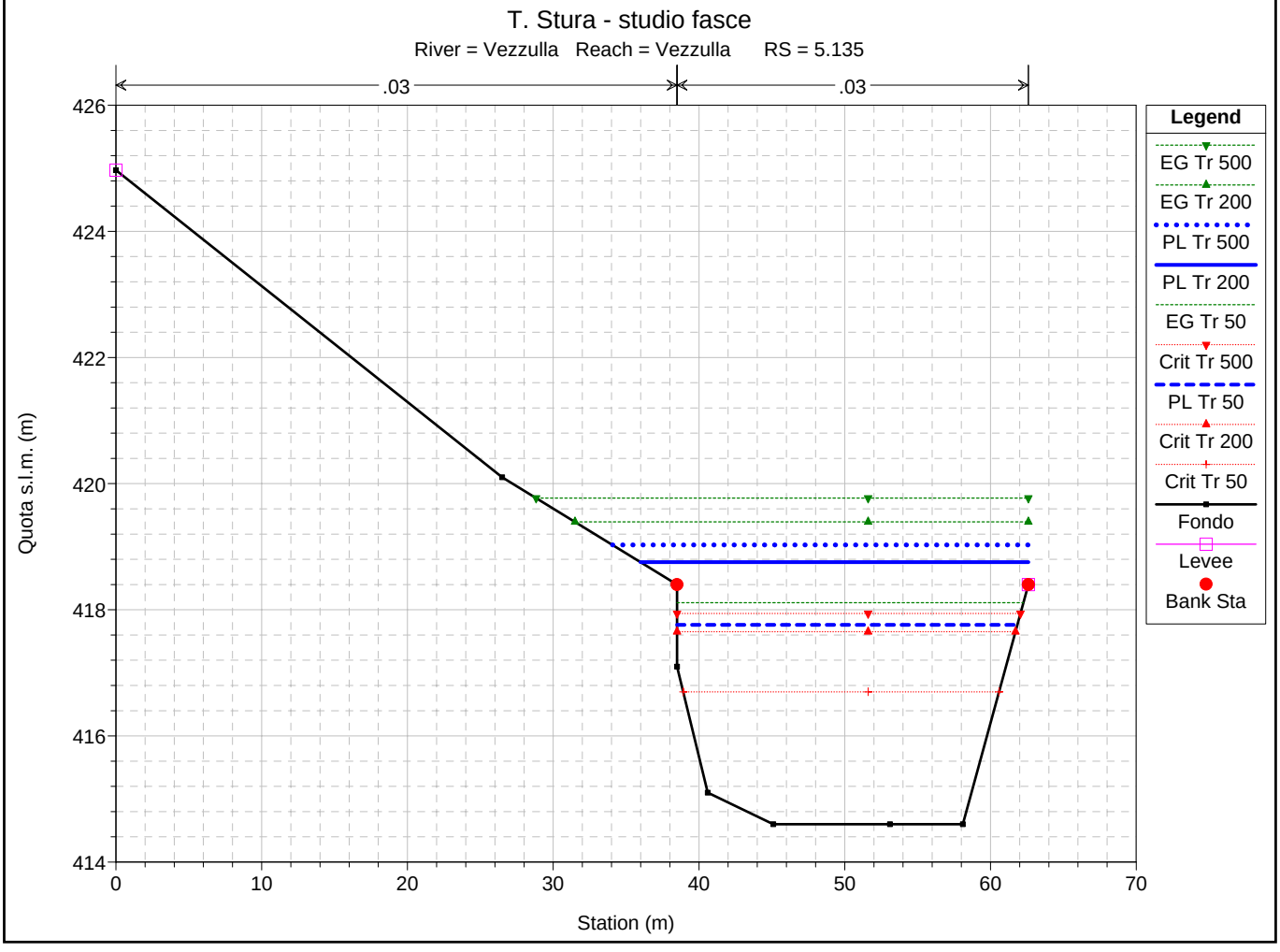

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.153
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

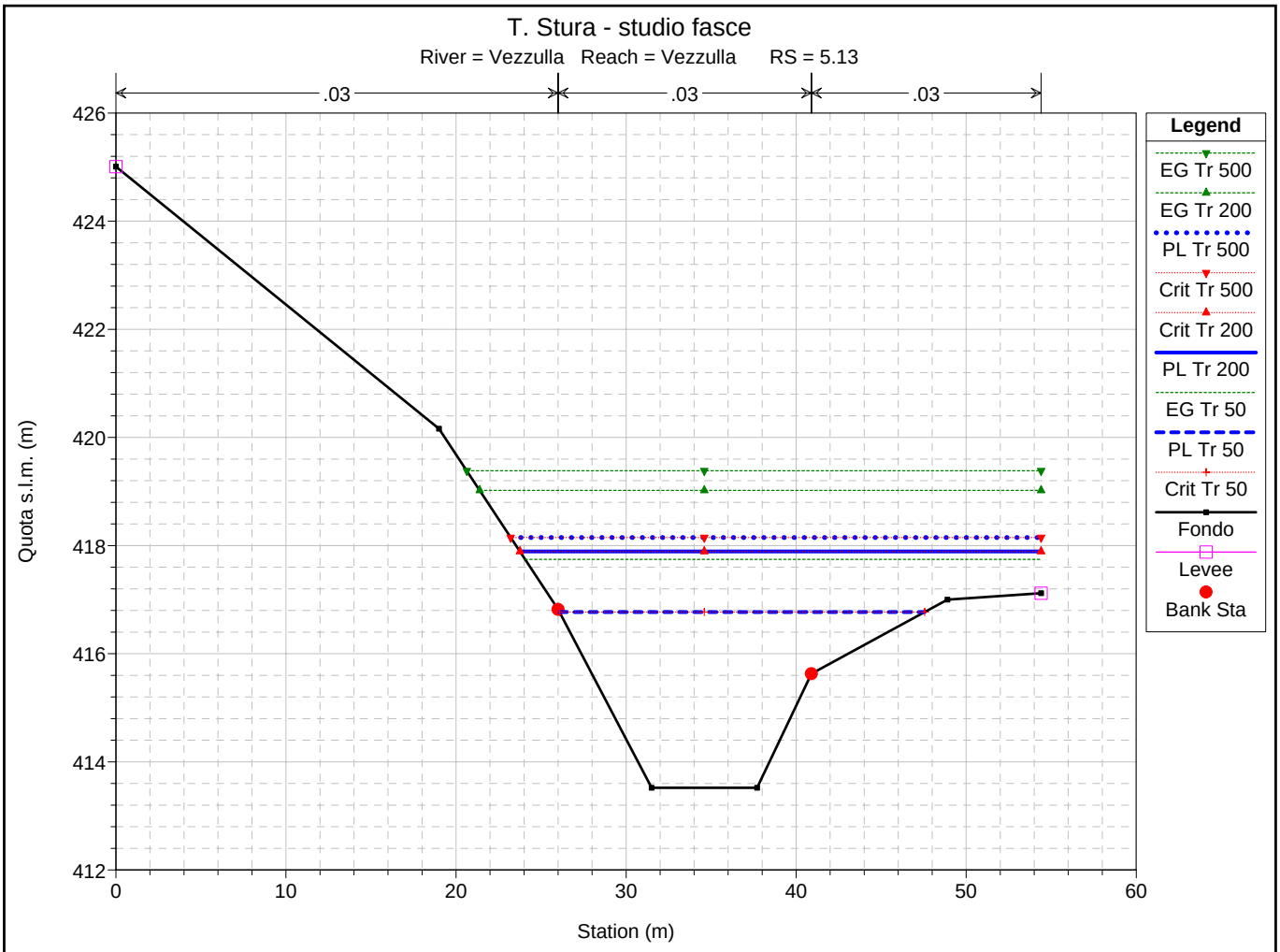

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.15
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

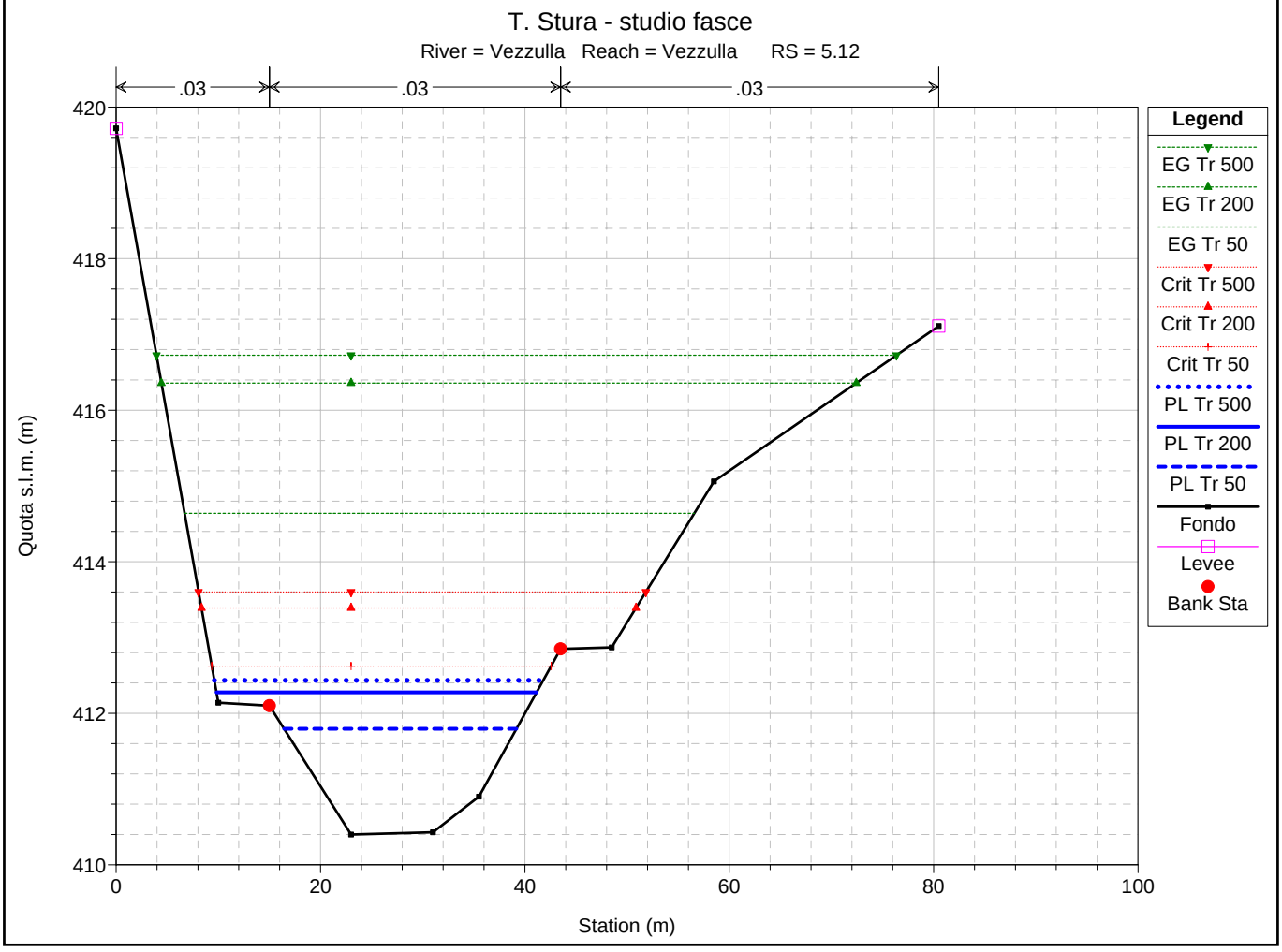

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.145
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta

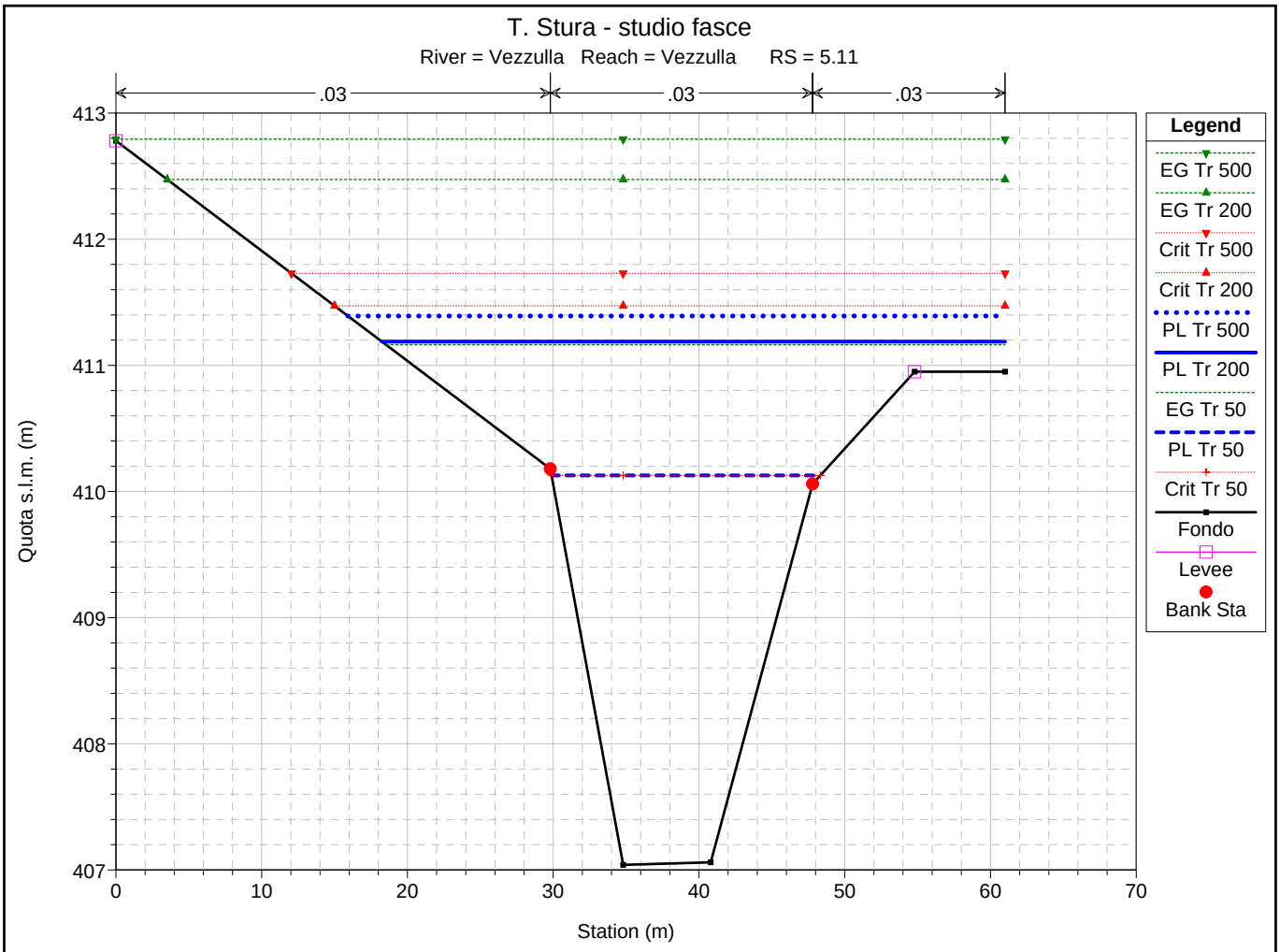

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.14 BR
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
PL Tr 200
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

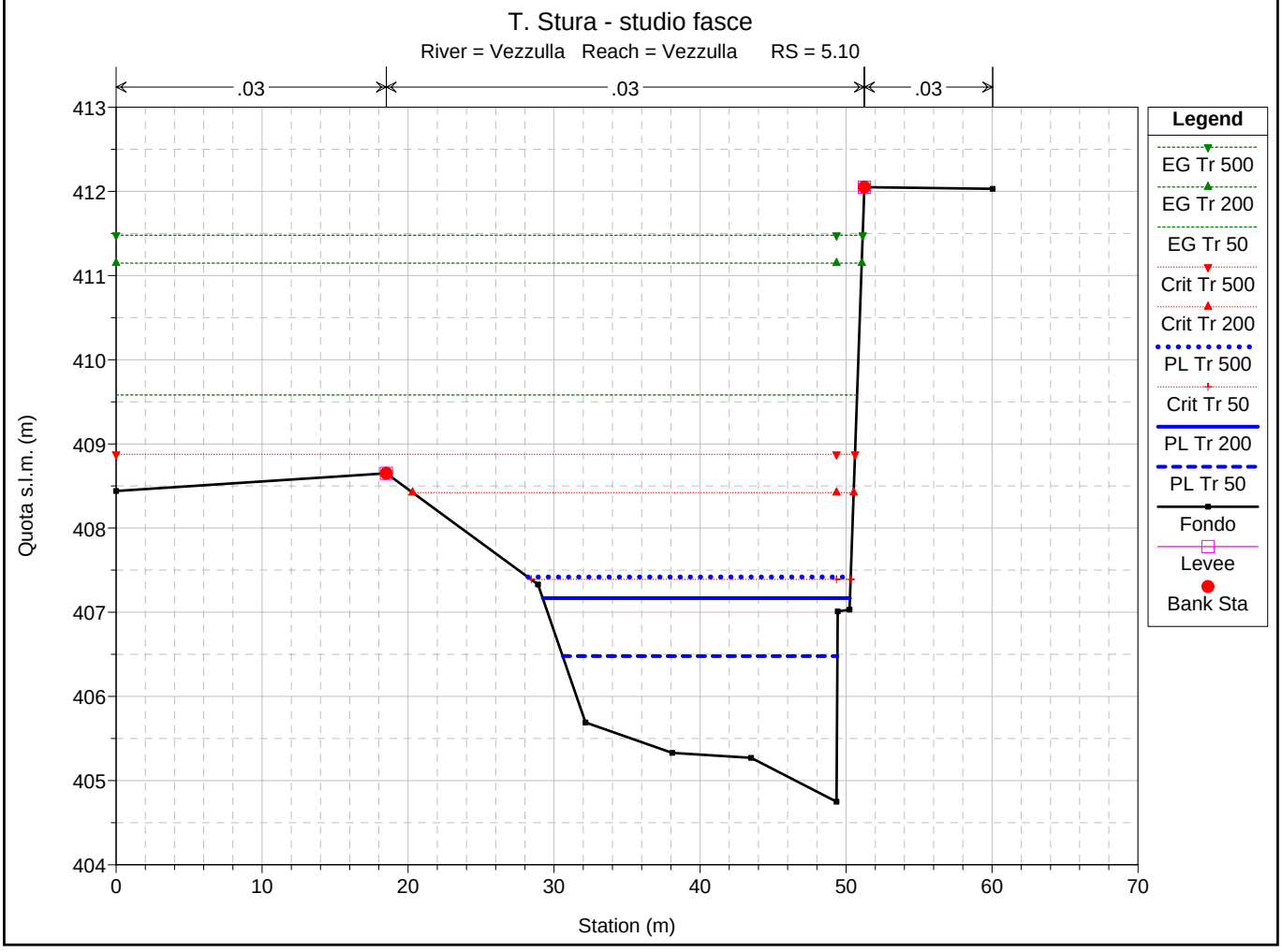

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.14 BR
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
PL Tr 200
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

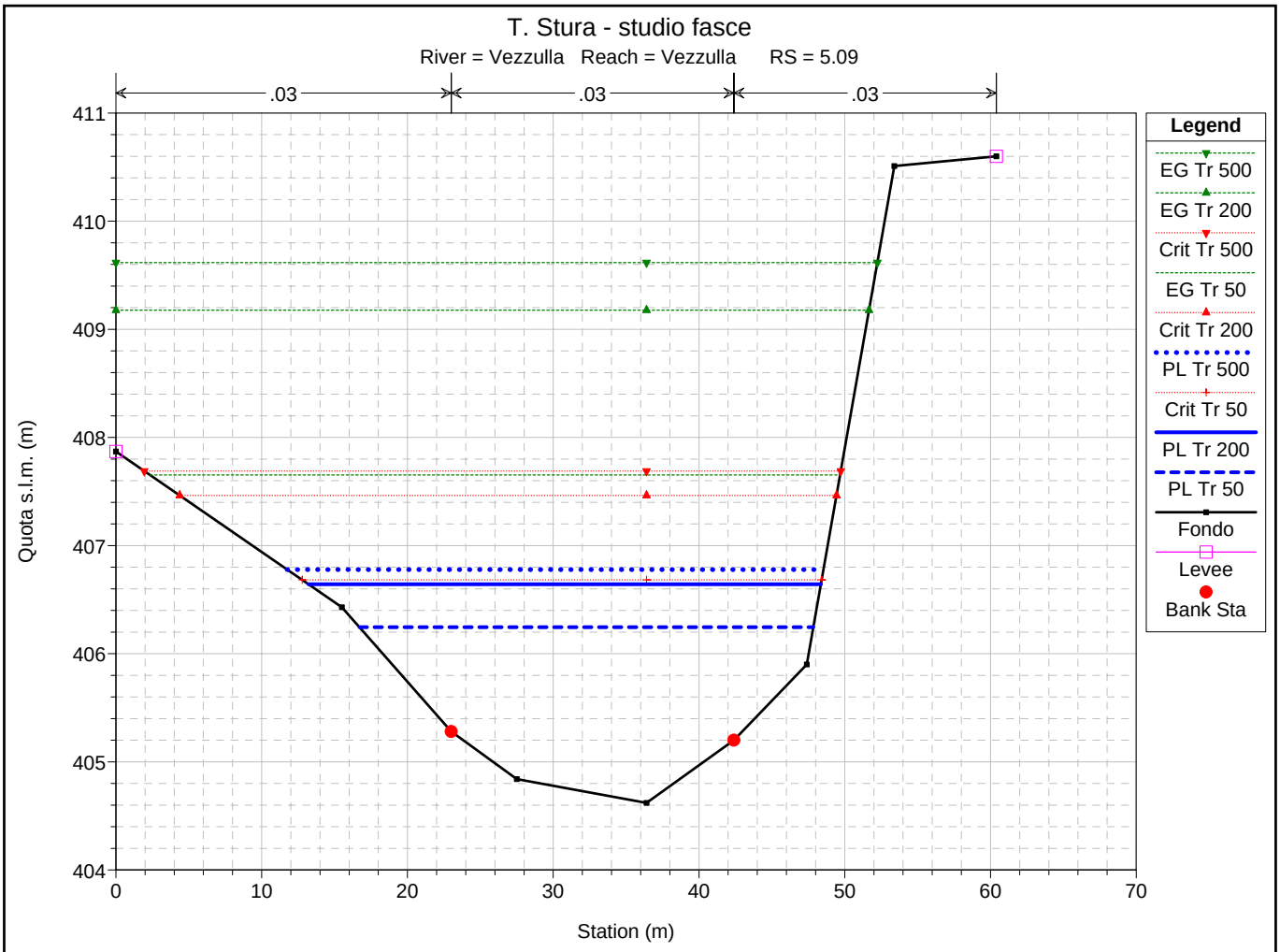

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.135
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta

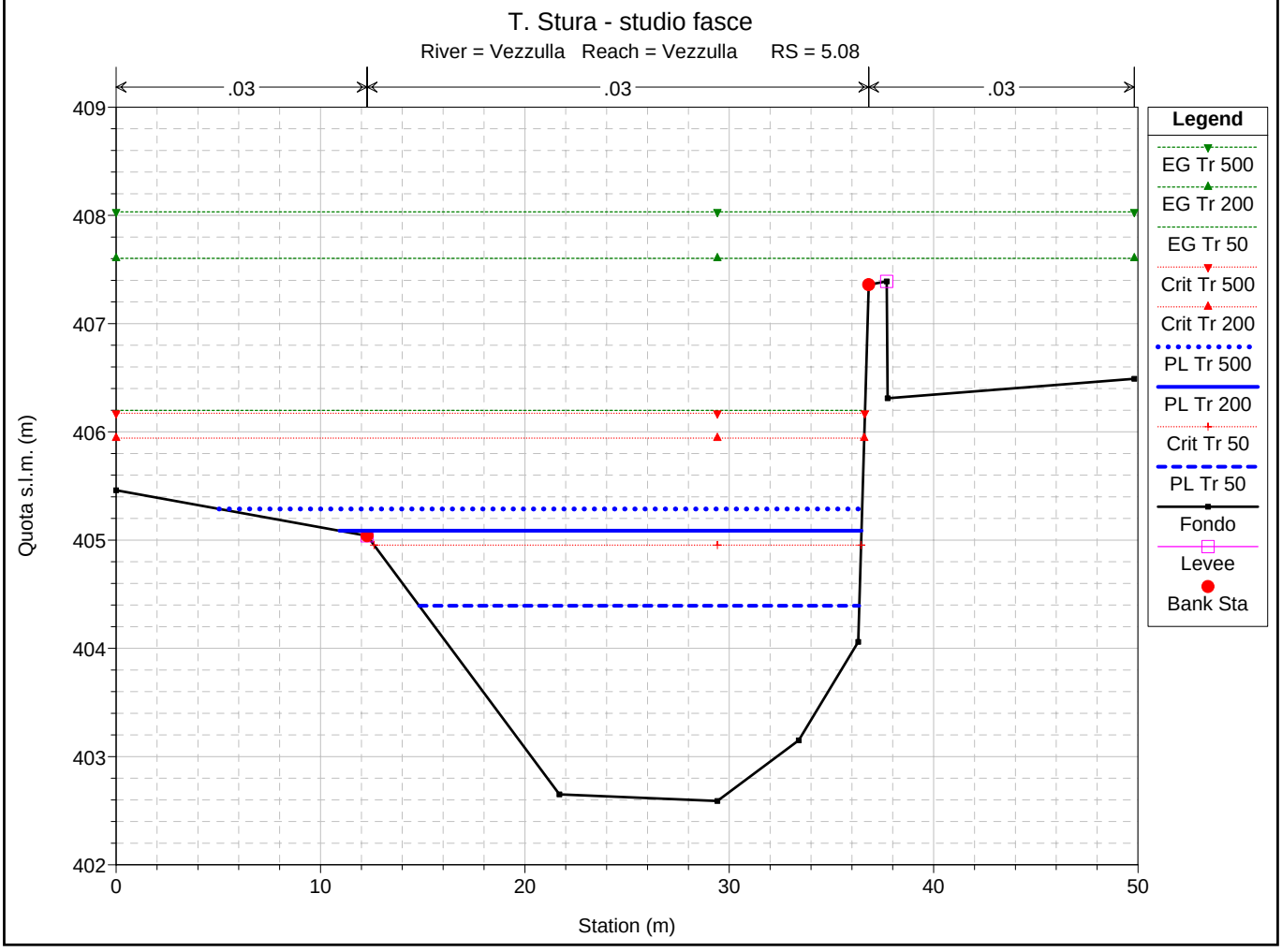

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.13
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

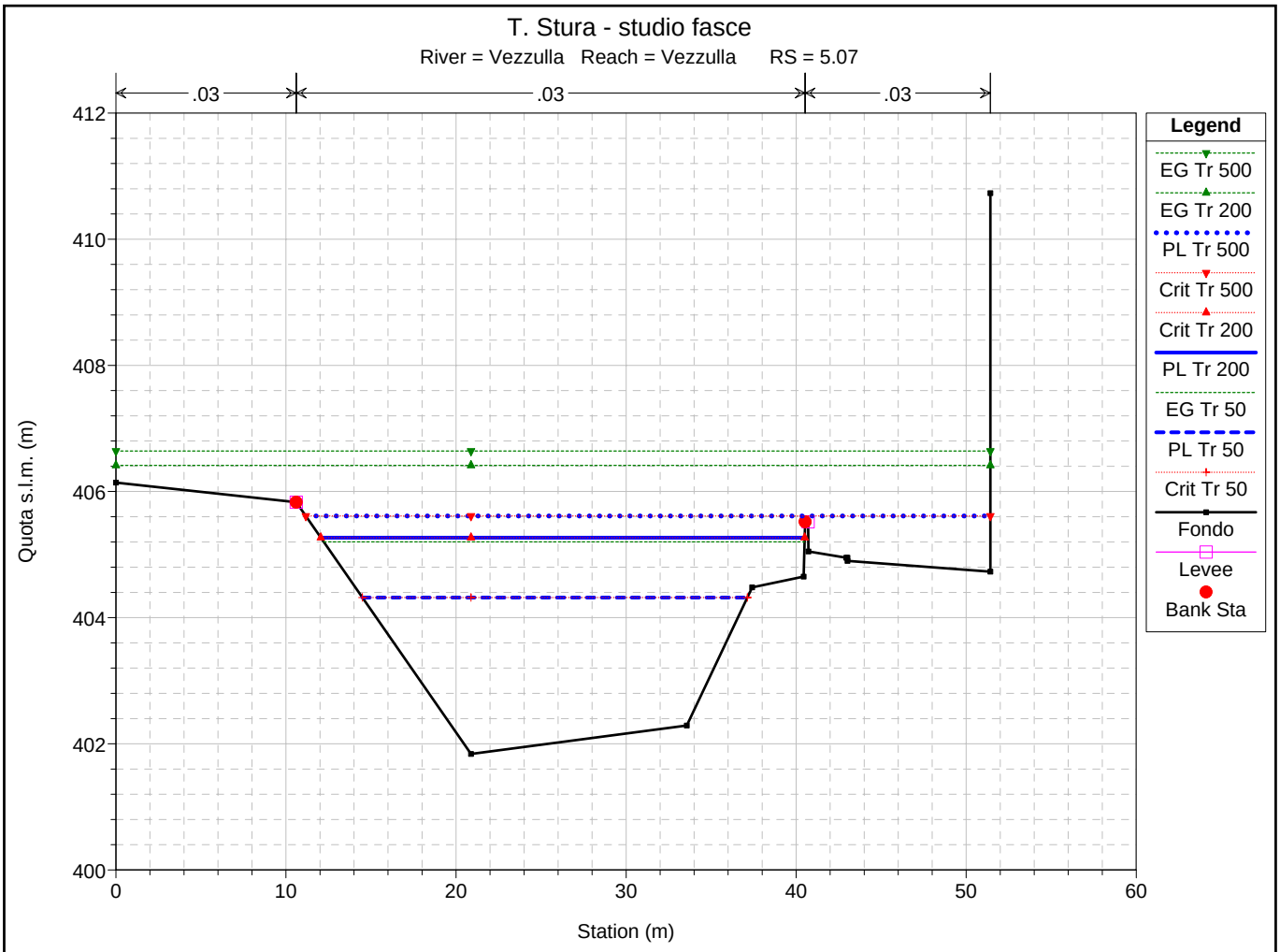

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.12
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

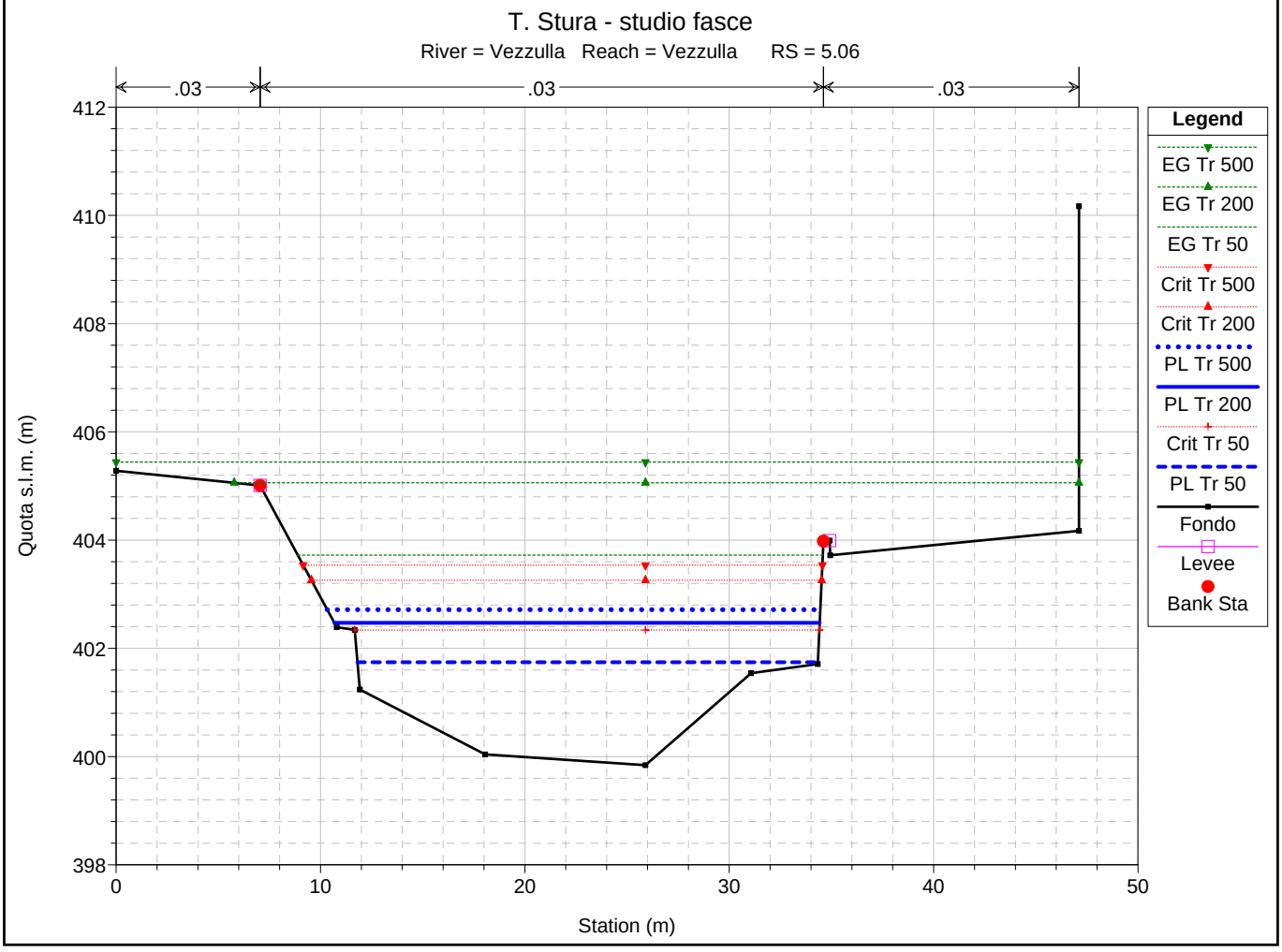

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.11
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

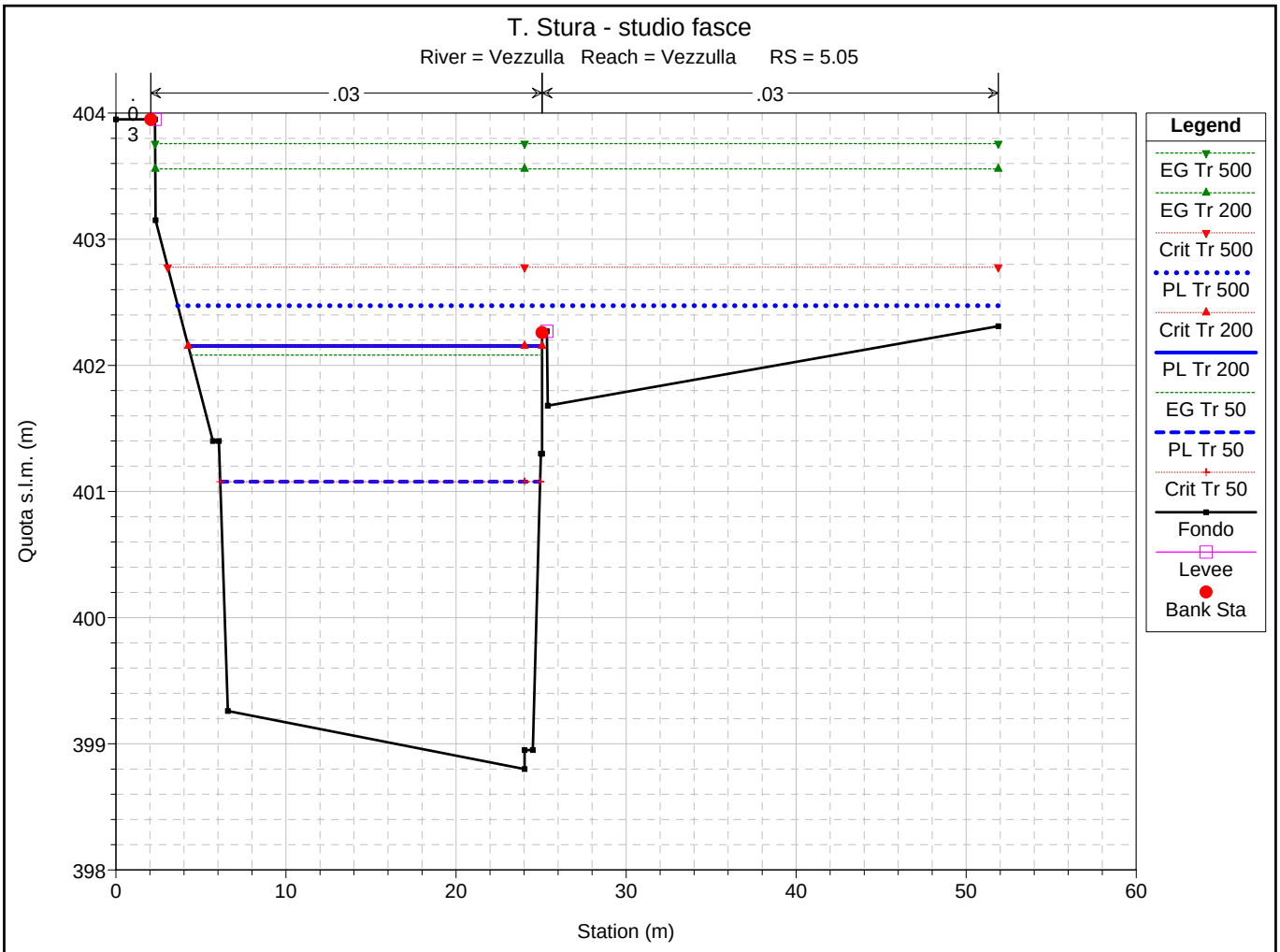

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.10
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

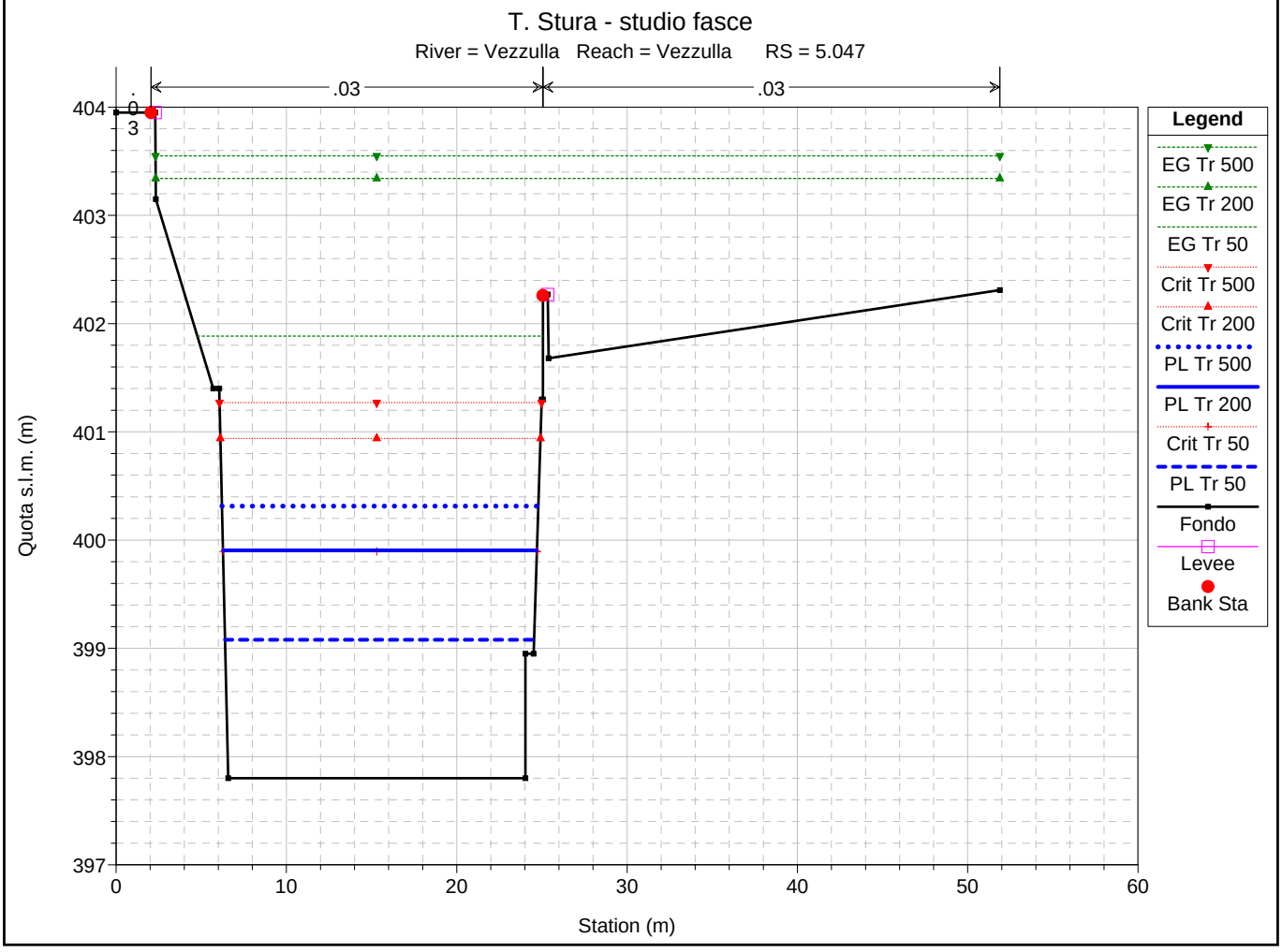

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.09
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

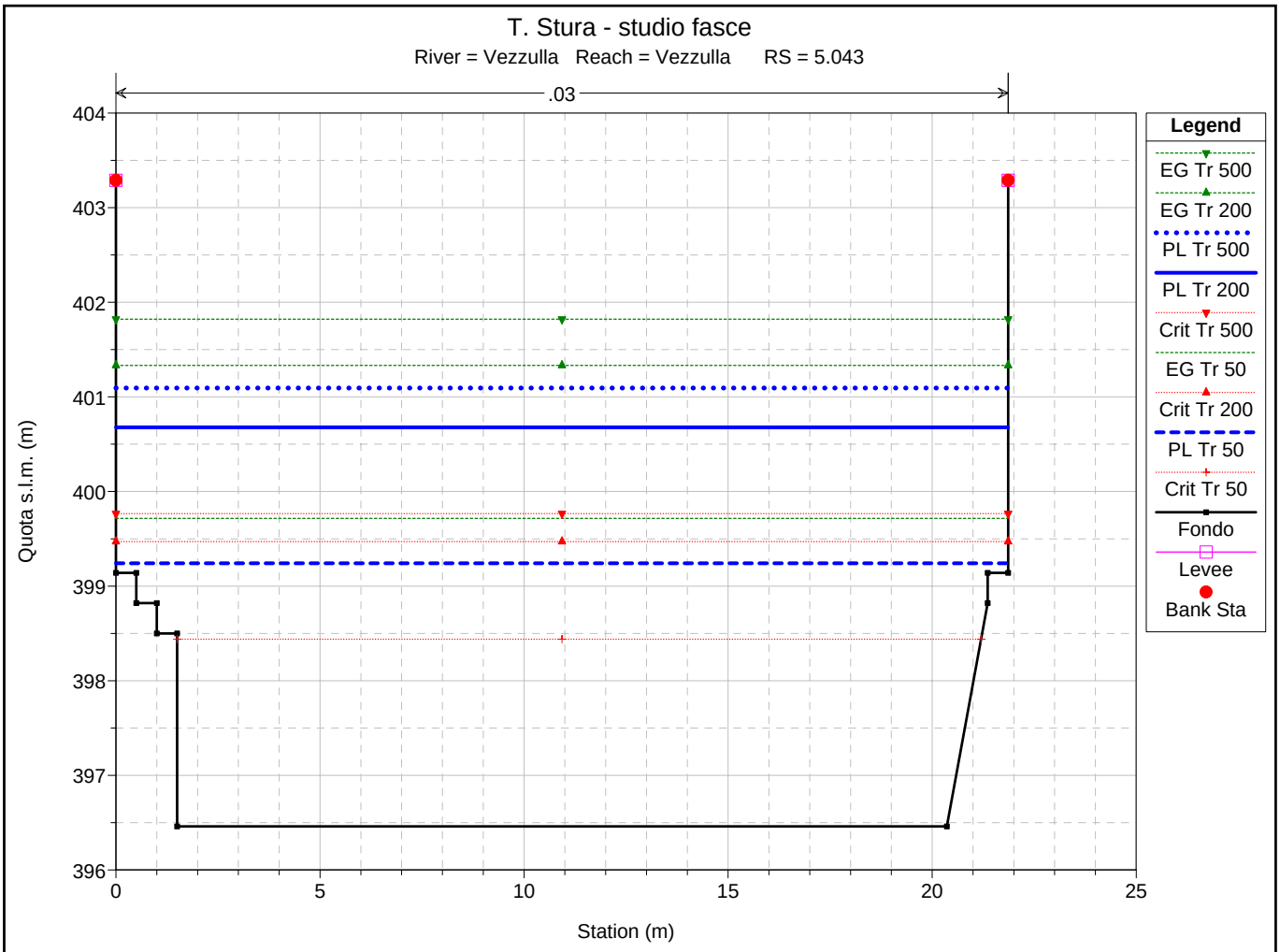

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.08
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

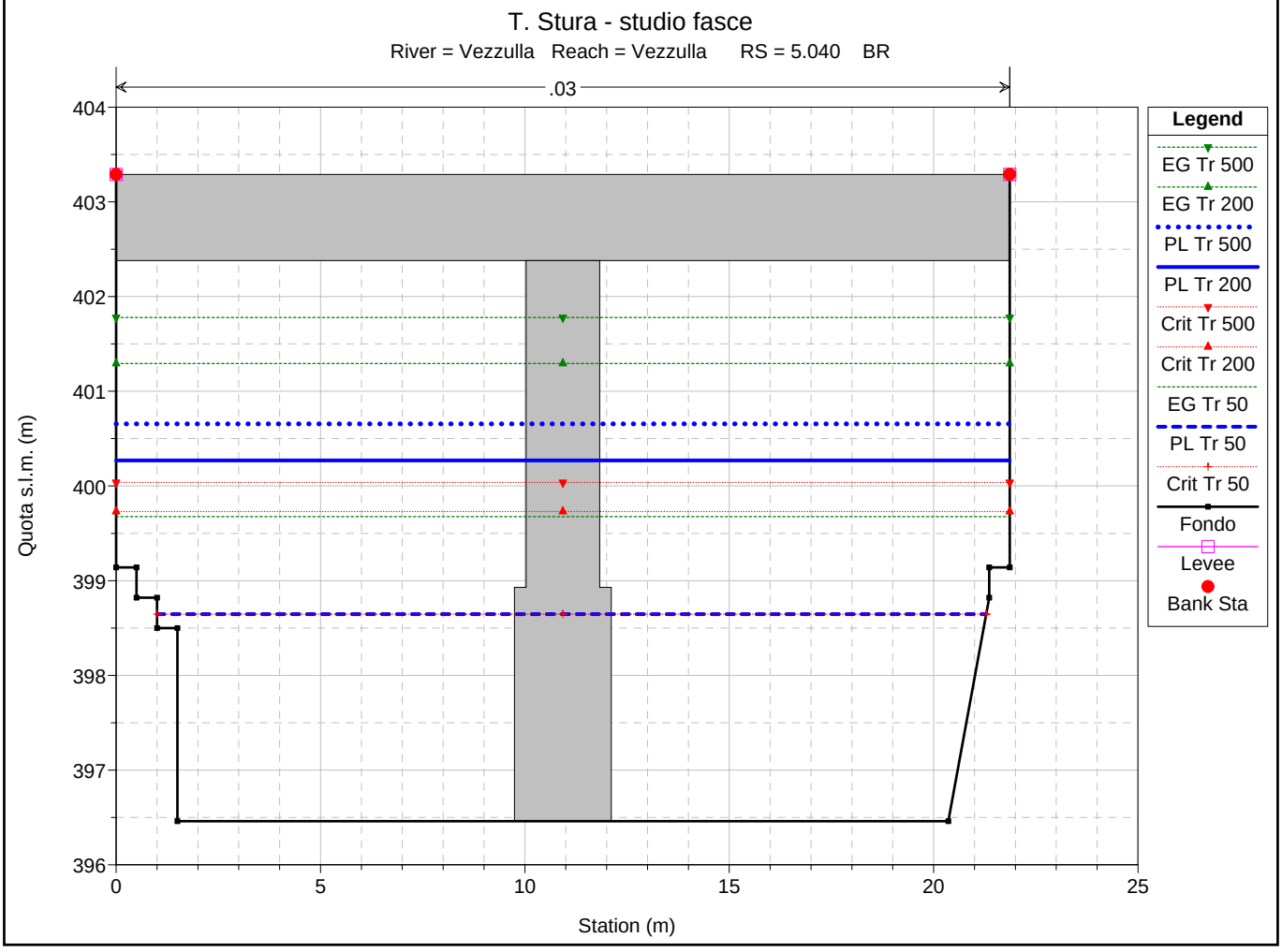

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.07
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

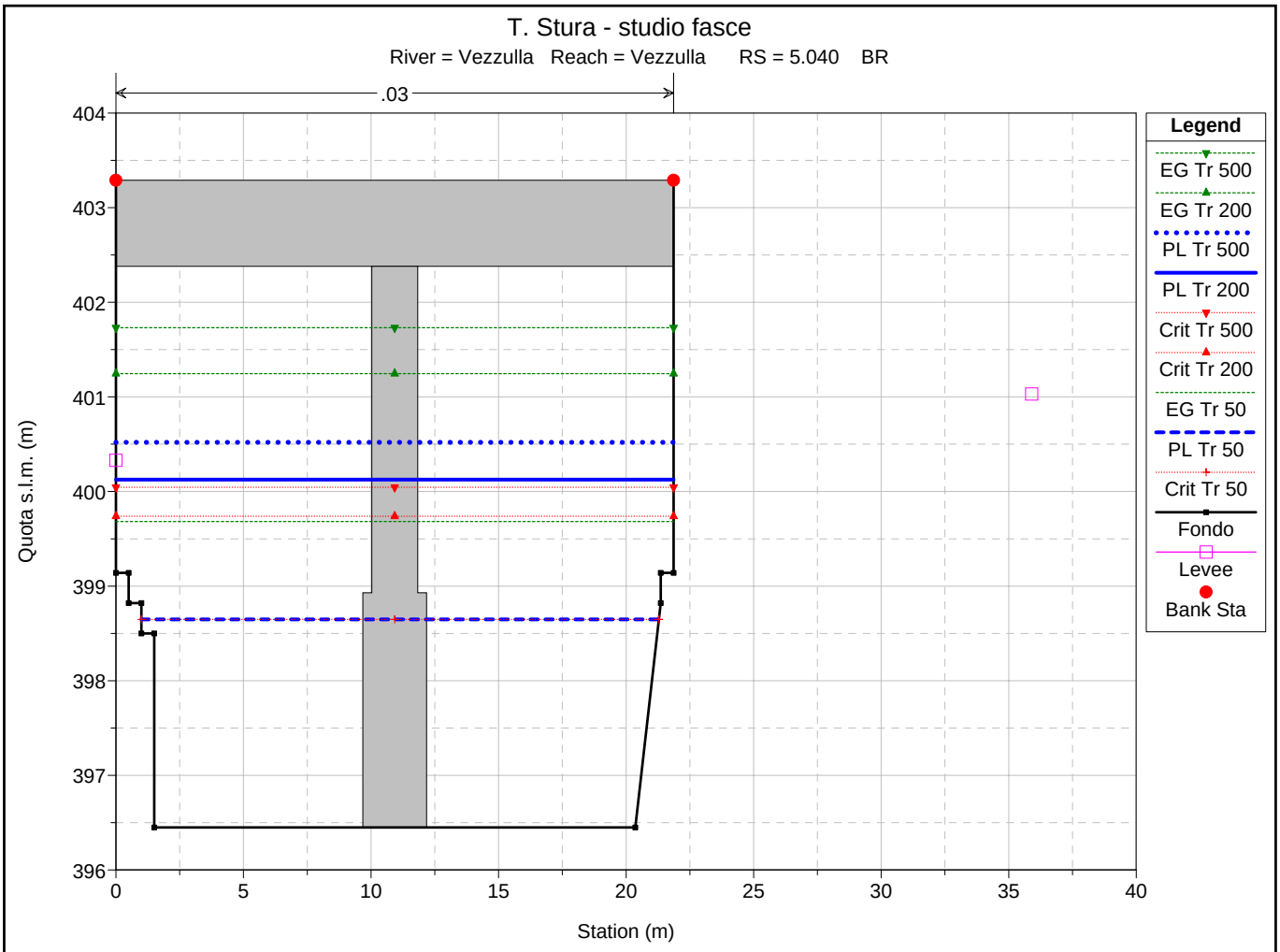

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.06
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

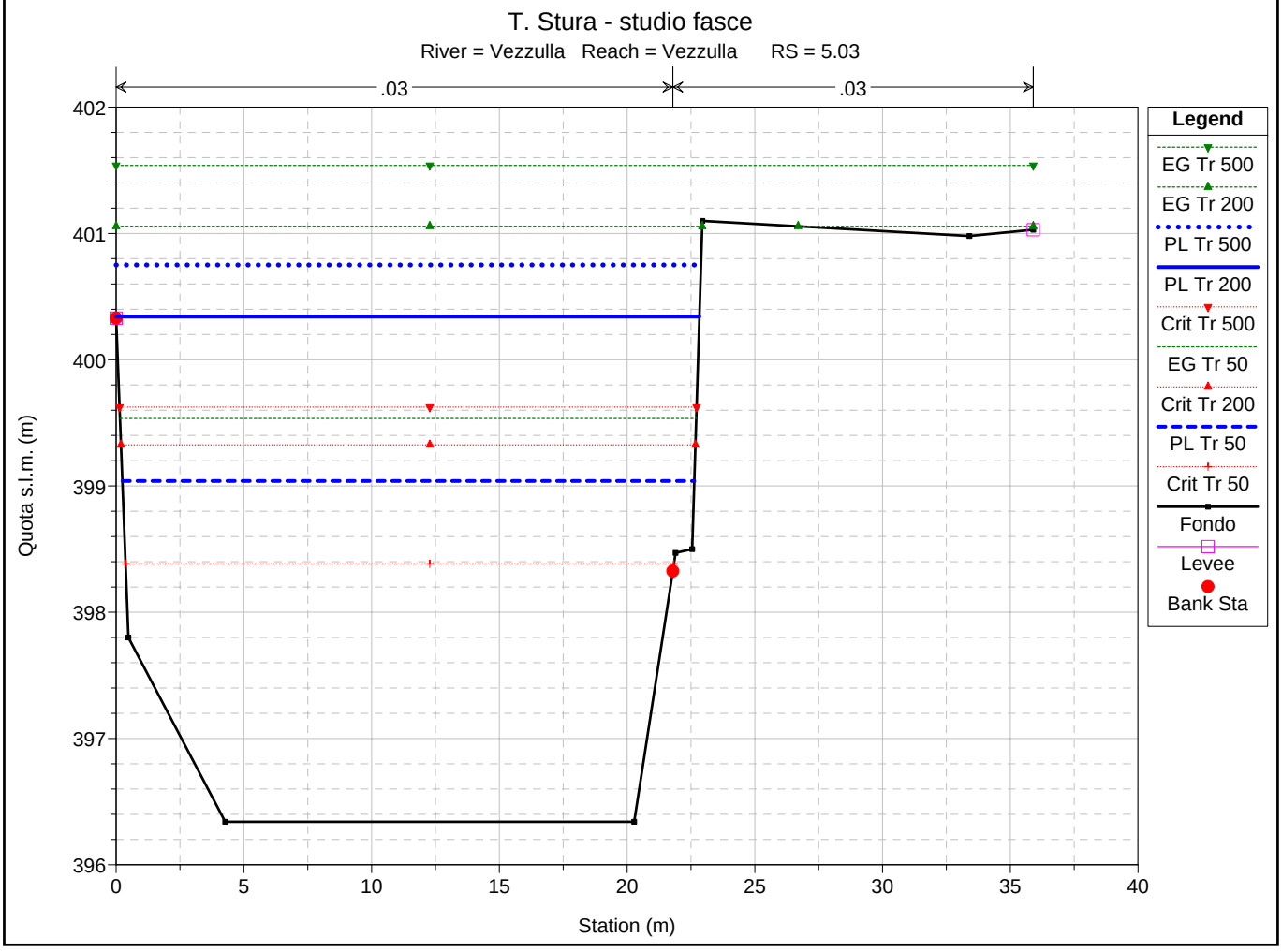

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.05
.03
.03
.03
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
PL Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)
404
403
402
401
400
399
398
0
10
20
30
40
50
60

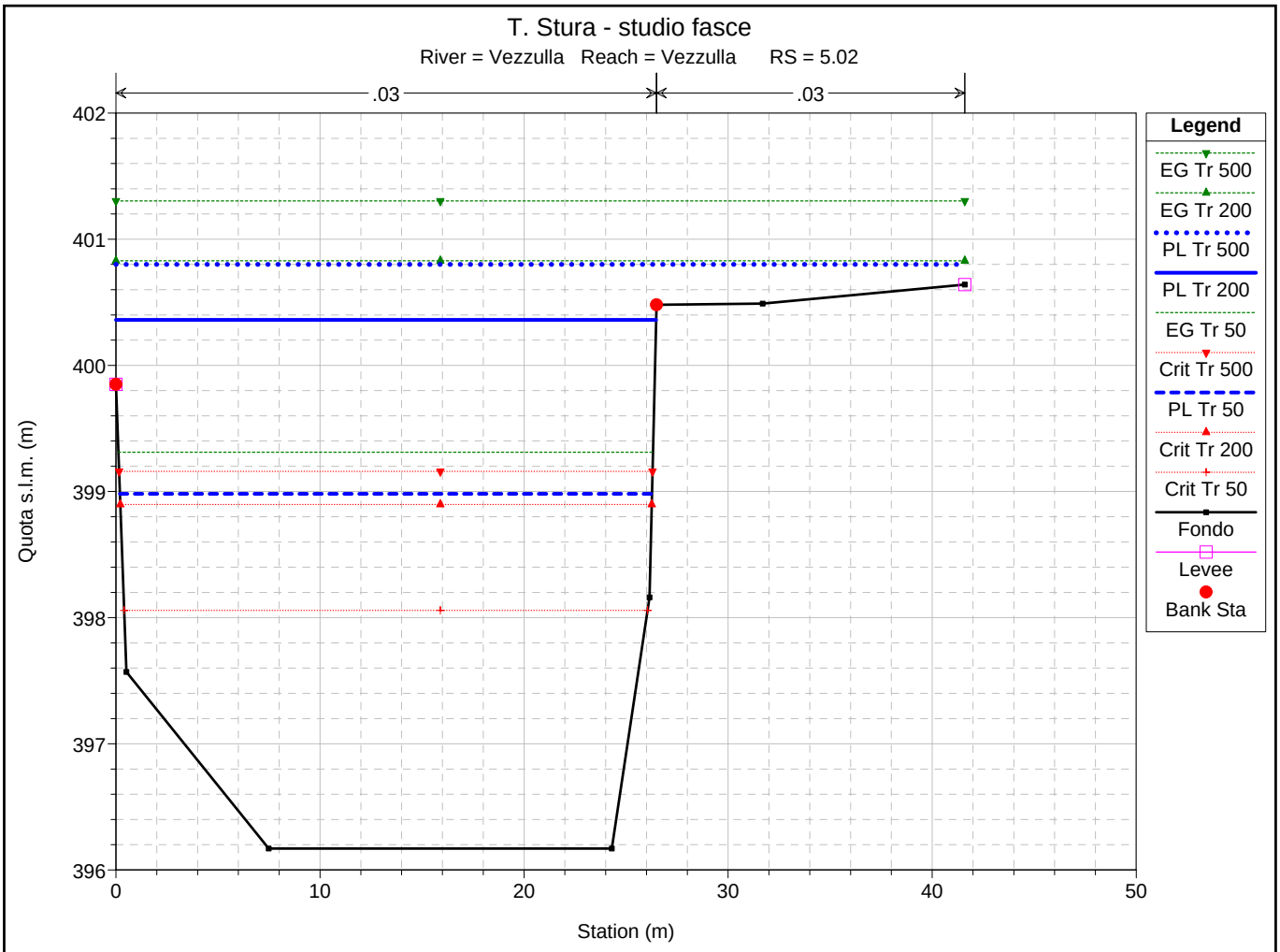

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.047
.03
.03
.03
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)
404
403
402
401
400
399
398
397
0
10
20
30
40
50
60

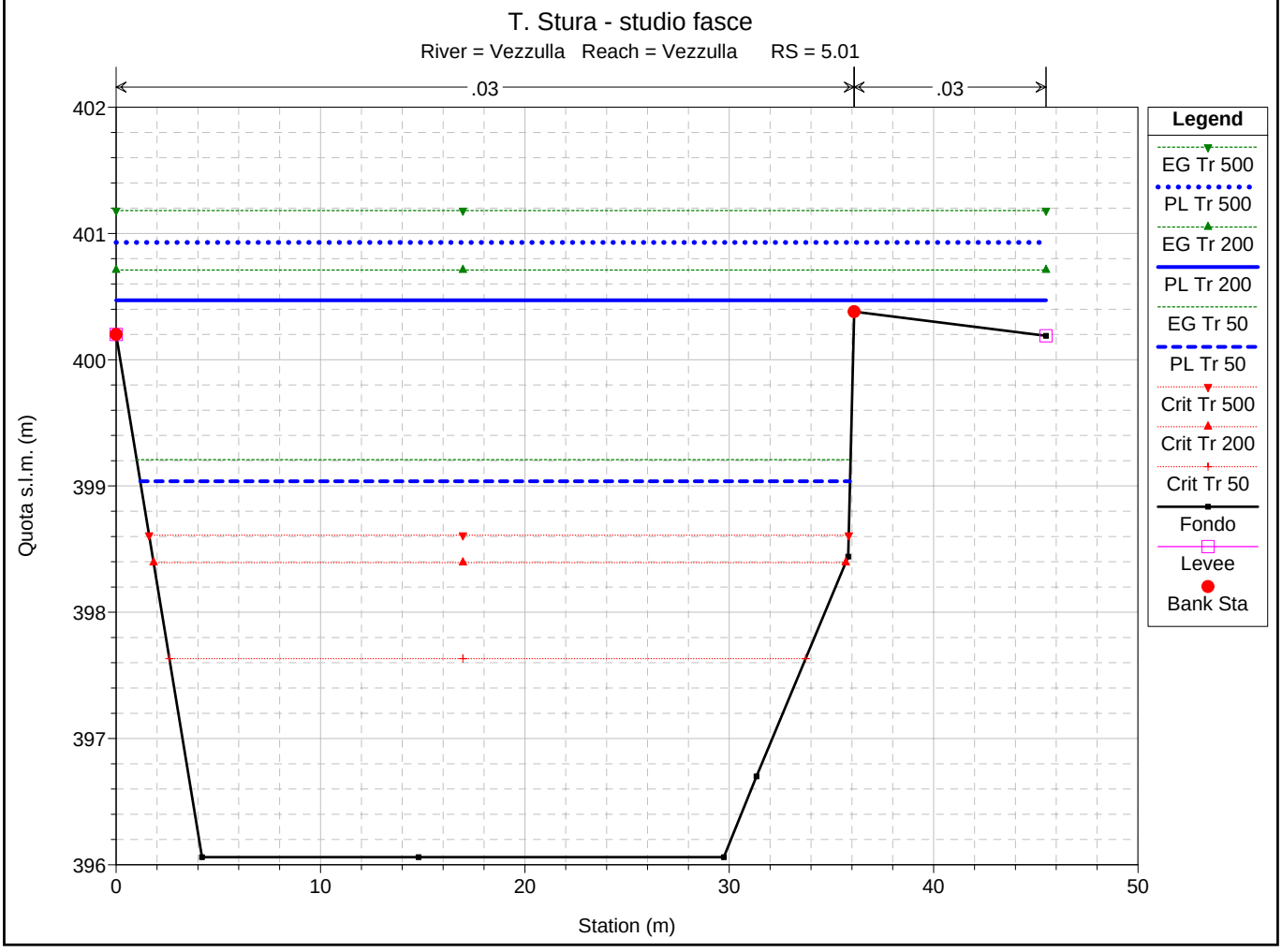

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.043
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

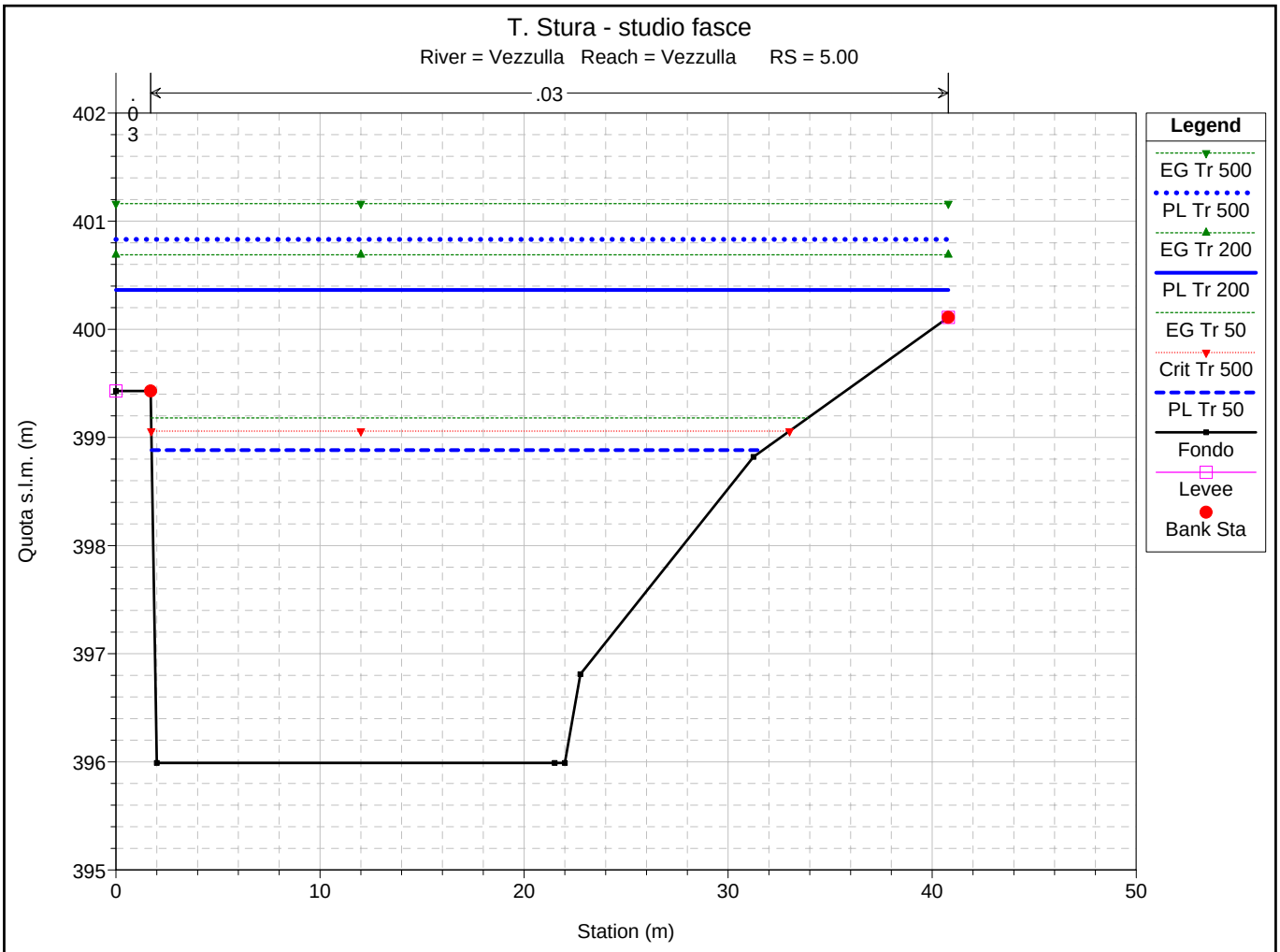

T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.040 BR
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.040 BR
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.02
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.01
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Vezzulla Reach = Vezzulla RS = 5.00
.03
.03
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)
402
401
400
399
398
397
396
395
0
10
20
30
40
50

HEC-RAS Plan: vezz-PROVA River: Vezzulla Reach: Vezzulla

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Vezzulla	5.25	Tr 50	167.00	475.23	477.25	490.11	12.86	489.98	12.73	477.51	478.50	0.012018	4.95	33.72	20.19	1.22
Vezzulla	5.25	Tr 200	309.00	475.23	478.08	490.11	12.03	489.98	11.90	478.52	479.90	0.012002	5.98	51.67	22.97	1.27
Vezzulla	5.25	Tr 500	360.00	475.23	478.33	490.11	11.78	489.98	11.65	478.83	480.32	0.012002	6.25	57.56	23.86	1.29
Vezzulla	5.24	Tr 50	167.00	467.35	468.37	489.95	21.58	480.10	11.73	469.44	472.93	0.095308	9.47	17.64	19.24	3.15
Vezzulla	5.24	Tr 200	309.00	467.35	468.93	489.95	21.02	480.10	11.17	470.37	474.67	0.071923	10.61	29.11	21.32	2.90
Vezzulla	5.24	Tr 500	360.00	467.35	469.11	489.95	20.84	480.10	10.99	470.65	475.17	0.067292	10.91	33.01	21.98	2.84
Vezzulla	5.23	Tr 50	167.00	459.04	460.50	475.00	14.50	470.06	9.56	461.16	462.66	0.033729	6.52	25.63	22.91	1.97
Vezzulla	5.23	Tr 200	309.00	459.04	460.95	475.00	14.05	470.06	9.11	462.05	464.64	0.039741	8.51	36.32	24.37	2.22
Vezzulla	5.23	Tr 500	360.00	459.04	461.09	475.00	13.91	470.06	8.97	462.32	465.28	0.041172	9.06	39.72	24.82	2.29
Vezzulla	5.22	Tr 50	167.00	453.12	454.39	470.07	15.68	470.05	15.66	455.24	457.53	0.059069	7.85	21.27	21.97	2.55
Vezzulla	5.22	Tr 200	309.00	453.12	454.91	470.07	15.16	470.05	15.14	456.06	459.23	0.055056	9.21	33.53	25.76	2.58
Vezzulla	5.22	Tr 500	360.00	453.12	455.05	470.07	15.02	470.05	15.00	456.33	459.81	0.054155	9.67	37.22	26.16	2.59
Vezzulla	5.21	Tr 50	167.00	443.10	444.25	450.11	5.86	444.22	-0.03	444.87	446.17	0.042129	6.14	27.22	32.45	2.12
Vezzulla	5.21	Tr 200	309.00	443.10	444.62	450.11	5.49	444.22	-0.40	445.46	447.59	0.046672	7.67	41.28	43.29	2.33
Vezzulla	5.21	Tr 500	360.00	443.10	444.73	450.11	5.38	444.22	-0.51	445.63	448.03	0.048336	8.11	45.84	46.26	2.39
Vezzulla	5.20	Tr 50	167.00	433.12	434.70	450.02	15.32	450.04	15.34	435.52	437.43	0.036865	7.33	22.79	17.92	2.07
Vezzulla	5.20	Tr 200	309.00	433.12	435.40	450.02	14.62	450.04	14.64	436.52	439.09	0.031999	8.51	36.30	20.13	2.02
Vezzulla	5.20	Tr 500	360.00	433.12	435.62	450.02	14.40	450.04	14.42	436.83	439.60	0.030677	8.84	40.73	20.54	2.00
Vezzulla	5.19	Tr 50	167.00	429.27	431.81	435.03	3.22	439.07	7.26	432.05	433.03	0.010867	4.88	34.19	19.34	1.17
Vezzulla	5.19	Tr 200	309.00	429.27	432.60	435.03	2.43	439.07	6.47	433.08	434.49	0.012351	6.08	50.78	22.58	1.29
Vezzulla	5.19	Tr 500	360.00	429.27	432.82	435.03	2.21	439.07	6.25	433.39	434.94	0.012876	6.45	55.79	23.37	1.33
Vezzulla	5.18	Tr 50	167.00	427.20	429.66	434.63	4.97	435.61	5.95	430.19	431.43	0.017334	5.90	28.30	17.05	1.46
Vezzulla	5.18	Tr 200	309.00	427.20	430.59	434.63	4.04	435.61	5.02	431.27	432.88	0.015469	6.70	46.12	20.90	1.44
Vezzulla	5.18	Tr 500	360.00	427.20	430.86	434.63	3.77	435.61	4.75	431.59	433.31	0.015205	6.94	51.84	21.93	1.44
Vezzulla	5.175	Tr 50	167.00	424.34	429.21	433.24	4.03	429.61	0.40	427.32	429.47	0.001231	2.27	73.57	23.73	0.41
Vezzulla	5.175	Tr 200	309.00	424.34	432.09	433.24	1.15	429.61	-2.48	428.56	432.28	0.000596	1.93	159.99	37.35	0.30
Vezzulla	5.175	Tr 500	360.00	424.34	432.33	433.24	0.91	429.61	-2.72	428.92	432.56	0.000703	2.13	169.21	38.62	0.32
Vezzulla	5.17		Bridge													
Vezzulla	5.165	Tr 50	167.00	424.22	426.25	433.24	6.99	429.61	3.36	427.22	429.19	0.029877	7.60	21.98	12.61	1.84
Vezzulla	5.165	Tr 200	309.00	424.22	426.98	433.24	6.26	429.61	2.63	428.49	431.74	0.037279	9.66	31.98	14.92	2.11
Vezzulla	5.165	Tr 500	360.00	424.22	427.32	433.24	5.92	429.61	2.29	428.85	432.09	0.034020	9.68	37.21	16.17	2.04
Vezzulla	5.16	Tr 50	167.00	421.04	423.61	435.00	11.39	425.95	2.34	424.03	425.28	0.013861	5.73	29.14	14.48	1.29
Vezzulla	5.16	Tr 200	309.00	421.04	424.58	435.00	10.42	425.95	1.37	425.33	427.04	0.014796	6.94	44.52	17.10	1.37
Vezzulla	5.16	Tr 500	360.00	421.04	424.87	435.00	10.13	425.95	1.08	425.76	427.56	0.015005	7.27	49.54	17.87	1.39
Vezzulla	5.157	Tr 50	167.00	418.79	420.11	423.60	3.49	423.60	3.49	420.86	422.61	0.036424	7.00	23.85	18.00	1.94
Vezzulla	5.157	Tr 200	309.00	418.79	420.85	423.60	2.75	423.60	2.75	421.91	424.39	0.031430	8.34	37.06	18.00	1.85

HEC-RAS Plan: vezz-PROVA River: Vezzulla Reach: Vezzulla (Continued)

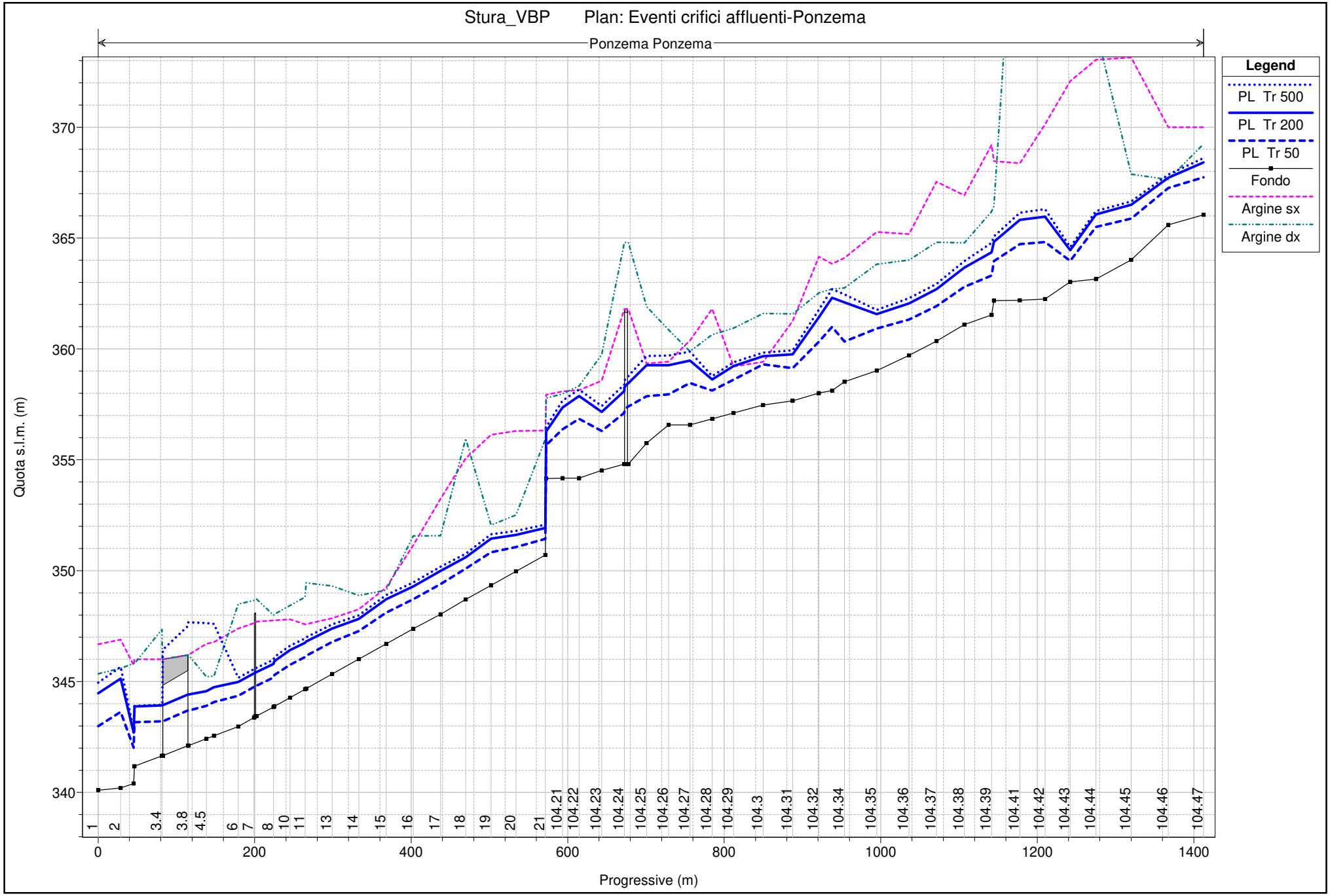
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Vezzulla	5.157	Tr 500	360.00	418.79	421.10	423.60	2.51	423.60	2.51	422.24	424.93	0.030149	8.68	41.49	18.00	1.82
Vezzulla	5.155		Bridge													
Vezzulla	5.153	Tr 50	167.00	418.77	420.35	423.60	3.25	423.60	3.25	420.84	422.11	0.021055	5.88	28.38	18.00	1.50
Vezzulla	5.153	Tr 200	309.00	418.77	421.06	423.60	2.54	423.60	2.54	421.88	423.92	0.022658	7.50	41.23	18.00	1.58
Vezzulla	5.153	Tr 500	360.00	418.77	421.31	423.60	2.29	423.60	2.29	422.22	424.47	0.022458	7.88	45.70	18.01	1.58
Vezzulla	5.15	Tr 50	167.00	416.55	418.22	417.87	-0.35	429.25	11.03	418.71	419.84	0.018793	5.64	29.79	22.11	1.51
Vezzulla	5.15	Tr 200	309.00	416.55	418.81	417.87	-0.94	429.25	10.44	419.66	421.45	0.020383	7.24	43.78	25.11	1.65
Vezzulla	5.15	Tr 500	360.00	416.55	418.98	417.87	-1.11	429.25	10.27	419.95	421.97	0.021226	7.74	47.97	25.94	1.70
Vezzulla	5.145	Tr 50	167.00	414.63	417.86	418.40	0.54	418.40	0.54	416.72	418.19	0.001740	2.56	65.33	23.45	0.49
Vezzulla	5.145	Tr 200	309.00	414.63	419.28	418.40	-0.88	418.40	-0.88	417.67	419.76	0.001620	3.09	102.12	30.30	0.49
Vezzulla	5.145	Tr 500	360.00	414.63	419.67	418.40	-1.27	418.40	-1.27	417.96	420.20	0.001630	3.26	114.43	33.04	0.49
Vezzulla	5.14		Bridge													
Vezzulla	5.135	Tr 50	167.00	414.60	417.76	418.40	0.64	418.40	0.64	416.70	418.11	0.001882	2.63	63.60	23.34	0.51
Vezzulla	5.135	Tr 200	309.00	414.60	418.76	418.40	-0.36	418.40	-0.36	417.65	419.39	0.002464	3.53	87.80	26.62	0.59
Vezzulla	5.135	Tr 500	360.00	414.60	419.03	418.40	-0.63	418.40	-0.63	417.94	419.77	0.002652	3.82	95.27	28.53	0.62
Vezzulla	5.13	Tr 50	167.00	413.52	416.77	416.82	0.05	415.63	-1.14	416.77	417.75	0.006233	4.45	39.78	21.48	0.91
Vezzulla	5.13	Tr 200	309.00	413.52	417.89	416.82	-1.07	415.63	-2.26	417.89	419.02	0.004744	4.99	71.08	30.65	0.85
Vezzulla	5.13	Tr 500	360.00	413.52	418.15	416.82	-1.33	415.63	-2.52	418.15	419.38	0.004792	5.25	79.03	31.19	0.86
Vezzulla	5.12	Tr 50	167.00	410.40	411.80	412.10	0.30	412.85	1.05	412.62	414.64	0.052240	7.47	22.35	22.74	2.41
Vezzulla	5.12	Tr 200	309.00	410.40	412.28	412.10	-0.18	412.85	0.57	413.39	416.36	0.051554	8.97	35.03	31.33	2.50
Vezzulla	5.12	Tr 500	360.00	410.40	412.43	412.10	-0.33	412.85	0.42	413.60	416.72	0.048442	9.24	40.02	32.18	2.46
Vezzulla	5.11	Tr 50	167.00	407.04	410.13	410.18	0.05	410.06	-0.07	410.13	411.16	0.007750	4.51	37.03	18.44	1.00
Vezzulla	5.11	Tr 200	309.00	407.04	411.19	410.18	-1.01	410.06	-1.13	411.47	412.47	0.005876	5.17	68.22	42.76	0.93
Vezzulla	5.11	Tr 500	360.00	407.04	411.39	410.18	-1.21	410.06	-1.33	411.73	412.79	0.006053	5.47	77.14	45.09	0.96
Vezzulla	5.10	Tr 50	167.00	404.75	406.48	408.65	2.17	412.05	5.57	407.39	409.58	0.052499	7.80	21.40	18.82	2.34
Vezzulla	5.10	Tr 200	309.00	404.75	407.17	408.65	1.48	412.05	4.88	408.42	411.15	0.041929	8.84	34.96	21.05	2.19
Vezzulla	5.10	Tr 500	360.00	404.75	407.42	408.65	1.23	412.05	4.63	408.88	411.48	0.037988	8.93	40.33	22.11	2.11
Vezzulla	5.09	Tr 50	167.00	404.62	406.24	405.28	-0.96	405.20	-1.04	406.68	407.65	0.017663	5.49	33.41	31.14	1.49
Vezzulla	5.09	Tr 200	309.00	404.62	406.64	405.28	-1.36	405.20	-1.44	407.46	409.18	0.023357	7.47	46.50	35.15	1.79
Vezzulla	5.09	Tr 500	360.00	404.62	406.78	405.28	-1.50	405.20	-1.58	407.69	409.62	0.023947	7.94	51.40	36.79	1.83
Vezzulla	5.08	Tr 50	167.00	402.59	404.39	405.04	0.65	407.36	2.97	404.95	406.20	0.023367	5.95	28.05	21.54	1.66
Vezzulla	5.08	Tr 200	309.00	402.59	405.09	405.04	-0.05	407.36	2.27	405.94	407.60	0.021559	7.03	43.99	25.55	1.66
Vezzulla	5.08	Tr 500	360.00	402.59	405.29	405.04	-0.25	407.36	2.07	406.17	408.03	0.020710	7.35	49.73	31.47	1.65
Vezzulla	5.07	Tr 50	167.00	401.84	404.32	405.83	1.51	405.52	1.20	404.32	405.20	0.007700	4.16	40.13	22.63	1.00
Vezzulla	5.07	Tr 200	309.00	401.84	405.27	405.83	0.56	405.52	0.25	405.27	406.41	0.007264	4.74	65.19	28.46	1.00

HEC-RAS Plan: vezz-PROVA River: Vezzulla Reach: Vezzulla (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Vezzulla	5.07	Tr 500	360.00	401.84	405.61	405.83	0.22	405.52	-0.09	405.61	406.64	0.005926	4.58	83.21	40.26	0.91
Vezzulla	5.06	Tr 50	167.00	399.84	401.74	405.01	3.27	403.98	2.24	402.34	403.72	0.029082	6.23	26.80	22.53	1.82
Vezzulla	5.06	Tr 200	309.00	399.84	402.47	405.01	2.54	403.98	1.51	403.26	405.06	0.022795	7.13	43.35	23.75	1.68
Vezzulla	5.06	Tr 500	360.00	399.84	402.72	405.01	2.29	403.98	1.26	403.54	405.44	0.020990	7.32	49.21	24.13	1.64
Vezzulla	5.05	Tr 50	167.00	398.80	401.08	403.95	2.87	402.26	1.18	401.08	402.08	0.008745	4.44	37.61	18.81	1.00
Vezzulla	5.05	Tr 200	309.00	398.80	402.15	403.95	1.80	402.26	0.11	402.15	403.56	0.008177	5.25	58.85	20.81	1.00
Vezzulla	5.05	Tr 500	360.00	398.80	402.47	403.95	1.48	402.26	-0.21	402.78	403.76	0.007120	5.16	78.35	48.26	0.94
Vezzulla	5.047	Tr 50	167.00	397.80	399.08	403.95	4.87	402.26	3.18	399.89	401.88	0.043780	7.42	22.50	18.14	2.13
Vezzulla	5.047	Tr 200	309.00	397.80	399.91	403.95	4.04	402.26	2.35	400.94	403.34	0.029995	8.21	37.63	18.44	1.83
Vezzulla	5.047	Tr 500	360.00	397.80	400.31	403.95	3.64	402.26	1.95	401.27	403.55	0.023261	7.97	45.17	18.58	1.63
Vezzulla	5.043	Tr 50	167.00	396.46	399.24	403.29	4.05	403.29	4.05	398.44	399.72	0.003205	3.05	54.74	21.86	0.62
Vezzulla	5.043	Tr 200	309.00	396.46	400.68	403.29	2.61	403.29	2.61	399.47	401.33	0.002775	3.59	86.14	21.86	0.58
Vezzulla	5.043	Tr 500	360.00	396.46	401.09	403.29	2.20	403.29	2.20	399.77	401.82	0.002798	3.78	95.22	21.86	0.58
Vezzulla	5.040		Bridge													
Vezzulla	5.03	Tr 50	167.00	396.34	399.04	400.33	1.29	398.33	-0.71	398.38	399.53	0.002986	3.12	53.86	22.39	0.63
Vezzulla	5.03	Tr 200	309.00	396.34	400.34	400.33	-0.01	398.33	-2.02	399.33	401.06	0.002650	3.76	83.29	22.83	0.62
Vezzulla	5.03	Tr 500	360.00	396.34	400.75	400.33	-0.42	398.33	-2.42	399.62	401.54	0.002596	3.95	92.65	22.90	0.62
Vezzulla	5.02	Tr 50	167.00	396.17	398.98	399.85	0.87	400.48	1.50	398.06	399.31	0.001953	2.54	65.65	26.08	0.51
Vezzulla	5.02	Tr 200	309.00	396.17	400.36	399.85	-0.51	400.48	0.12	398.90	400.83	0.001745	3.03	101.90	26.47	0.49
Vezzulla	5.02	Tr 500	360.00	396.17	400.80	399.85	-0.95	400.48	-0.32	399.16	401.30	0.001669	3.15	117.56	41.60	0.49
Vezzulla	5.01	Tr 50	167.00	396.06	399.04	400.20	1.16	400.38	1.34	397.63	399.21	0.000898	1.83	91.38	34.73	0.36
Vezzulla	5.01	Tr 200	309.00	396.06	400.47	400.20	-0.27	400.38	-0.09	398.39	400.71	0.000783	2.17	144.08	45.50	0.35
Vezzulla	5.01	Tr 500	360.00	396.06	400.93	400.20	-0.73	400.38	-0.55	398.61	401.18	0.000735	2.24	164.88	45.50	0.34
Vezzulla	5.00	Tr 50	167.00	395.99	398.88	399.43	0.55	400.11	1.23		399.18	0.001971	2.41	69.18	29.96	0.51
Vezzulla	5.00	Tr 200	309.00	395.99	400.36	399.43	-0.93	400.11	-0.25		400.69	0.001452	2.53	123.07	40.79	0.46
Vezzulla	5.00	Tr 500	360.00	395.99	400.83	399.43	-1.40	400.11	-0.72	399.06	401.16	0.001249	2.56	142.13	40.79	0.44

Torrente Ponzema

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati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PL Tr 200
PL Tr 50
Fondo
Argine sx
Argine dx
Quota s.l.m. (m)
Progressive (m)
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350
355
360
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370
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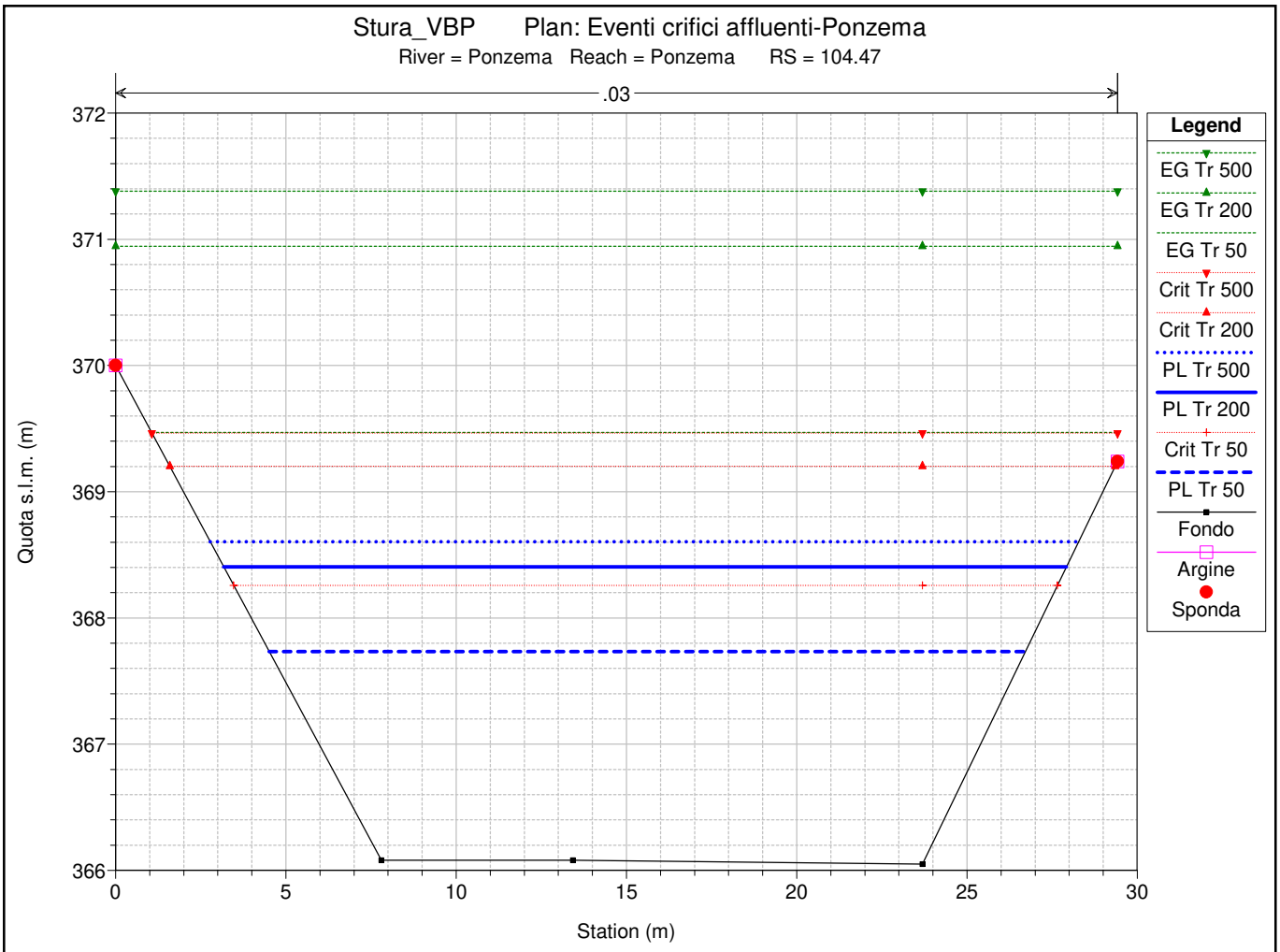
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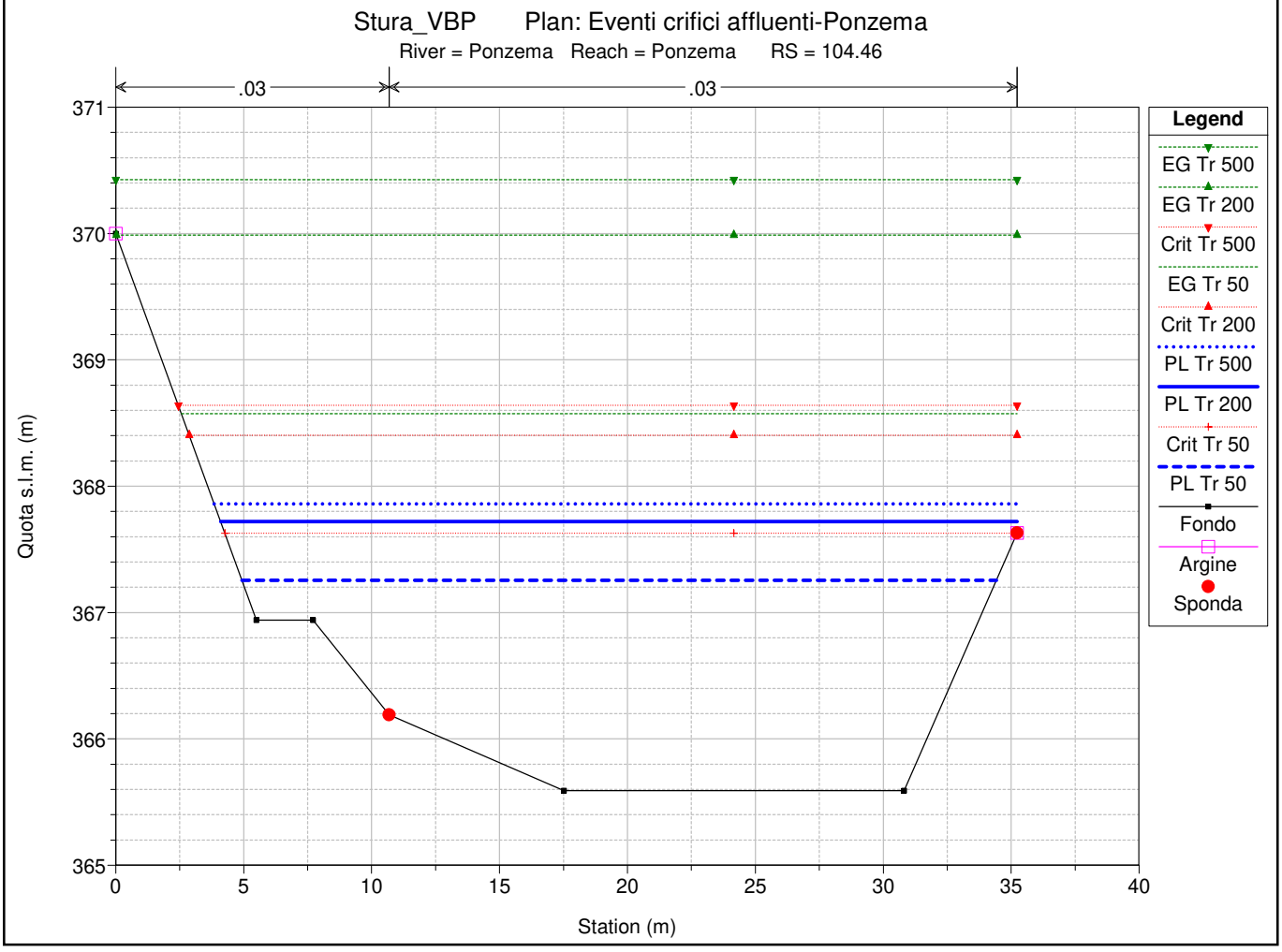
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda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.03
.03
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Station (m)
Legend
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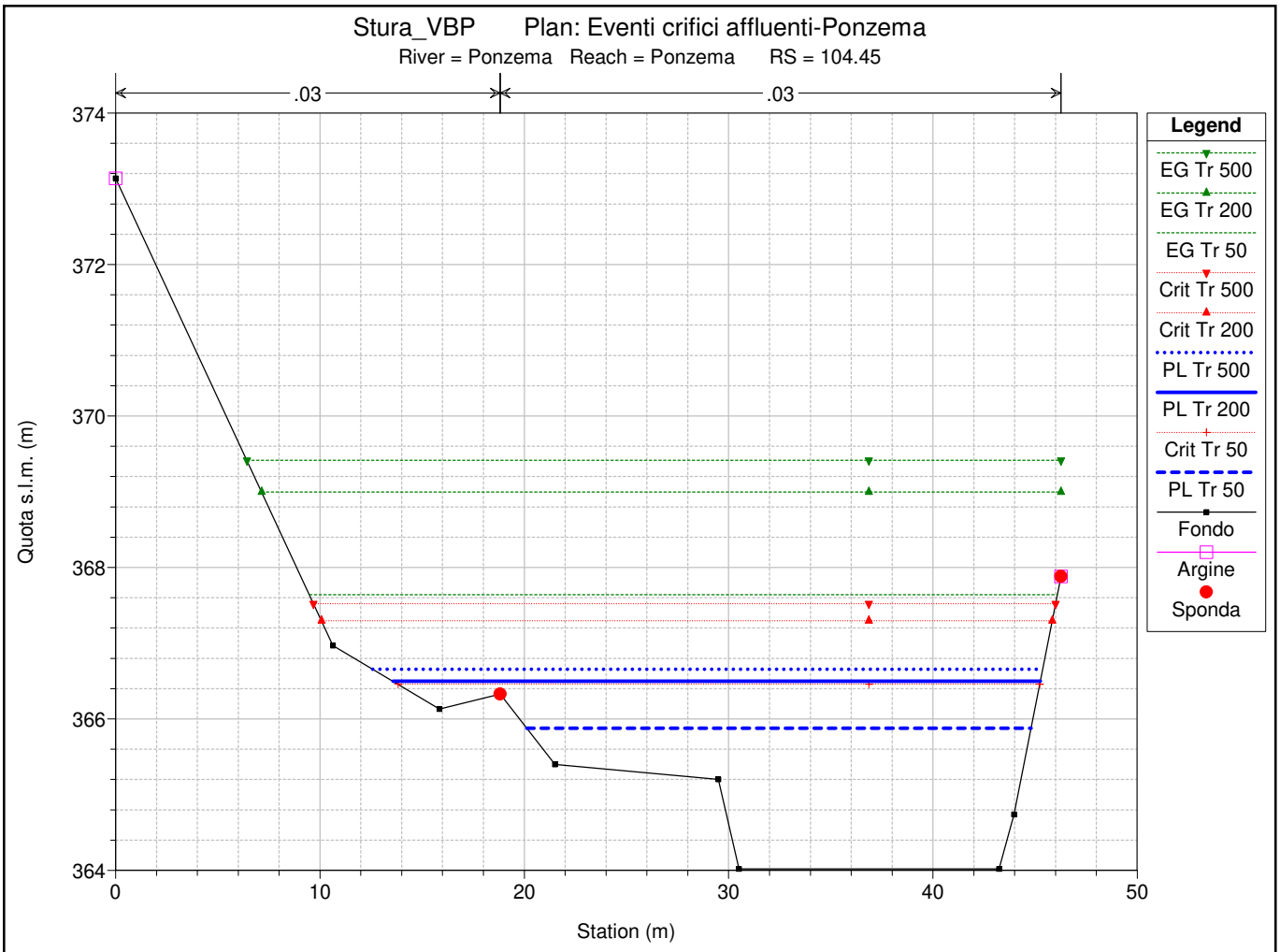
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda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.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
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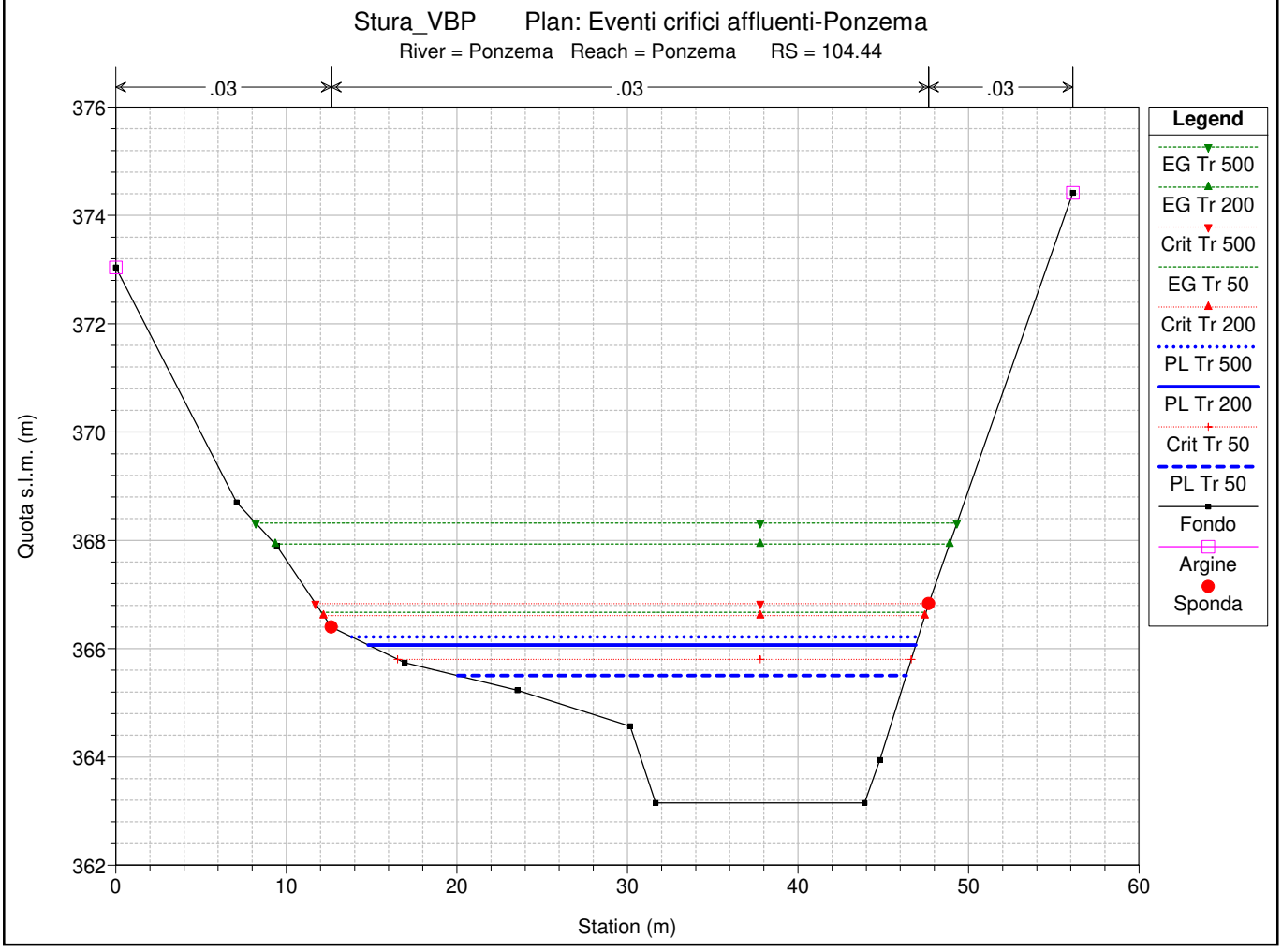
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda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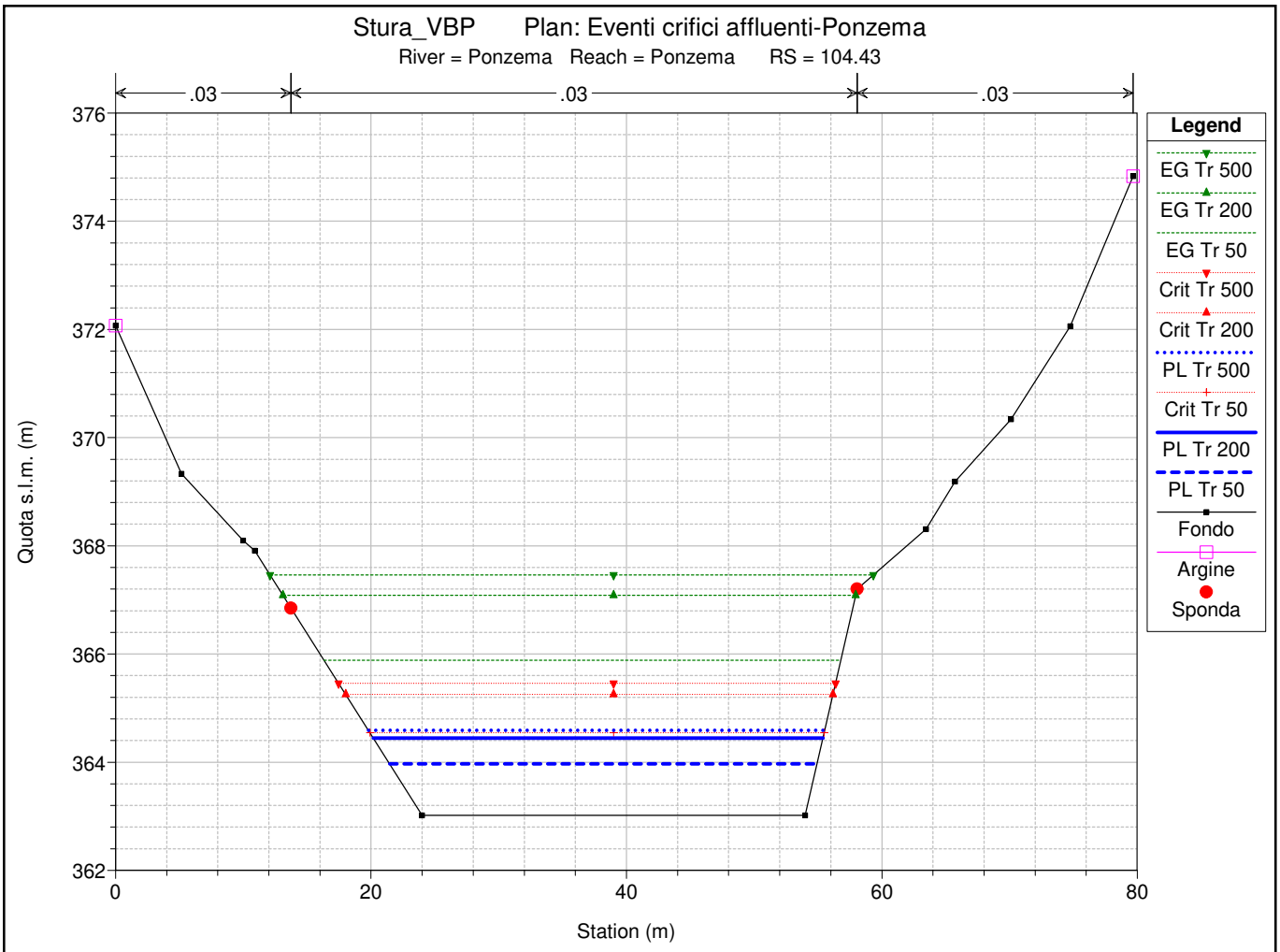
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda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.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
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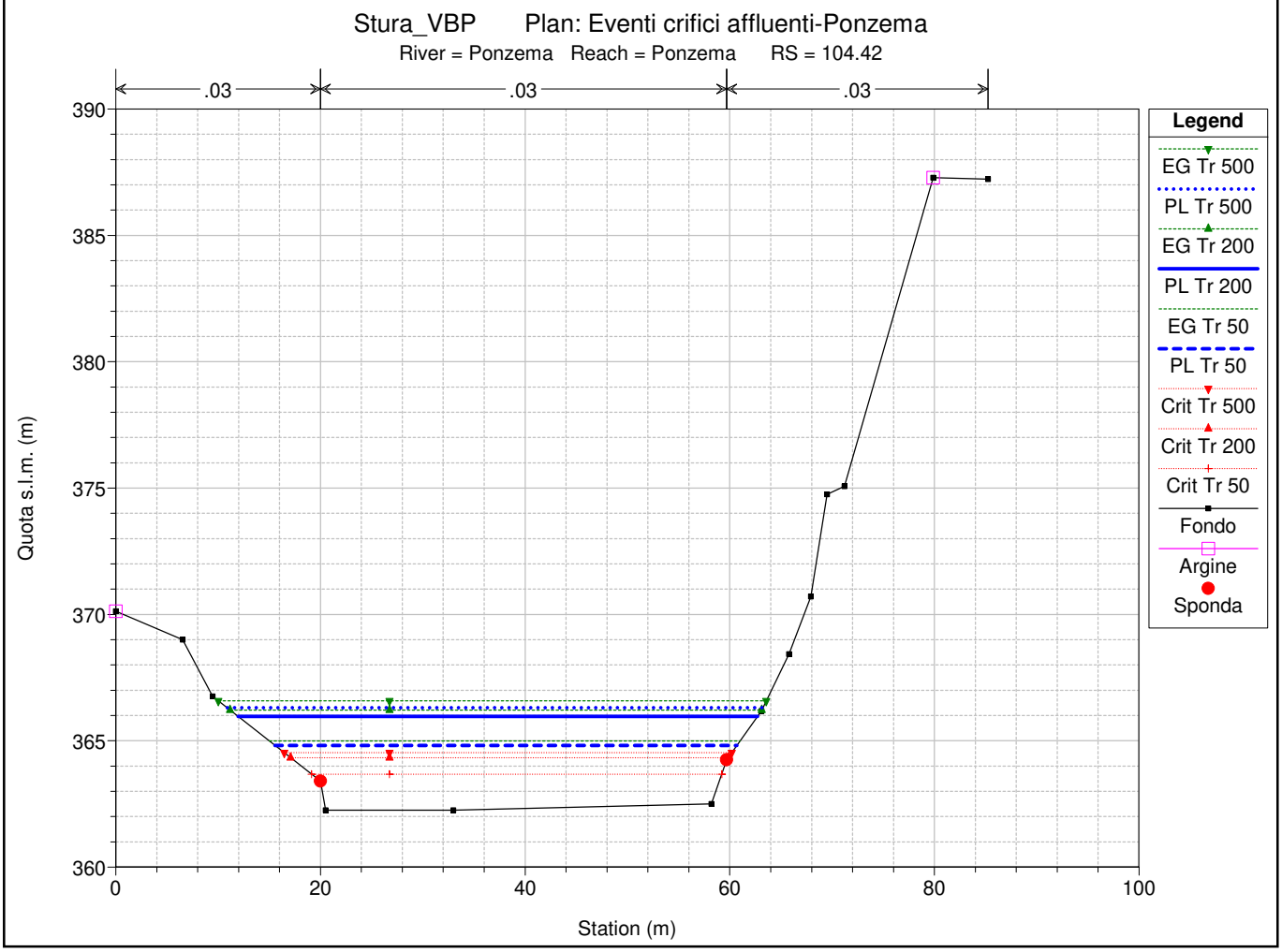
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda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.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
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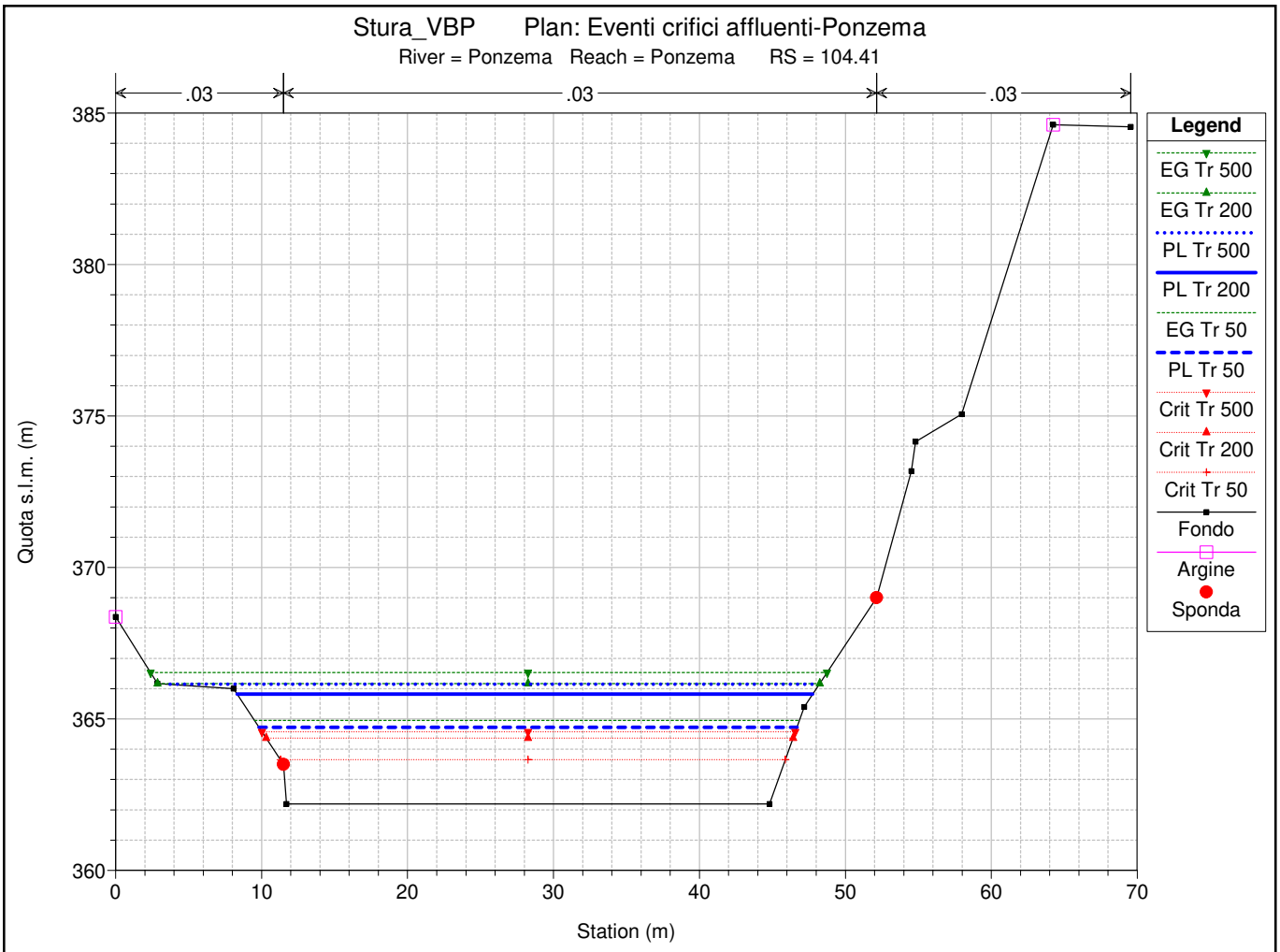
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Argine
Sponda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.03
.03
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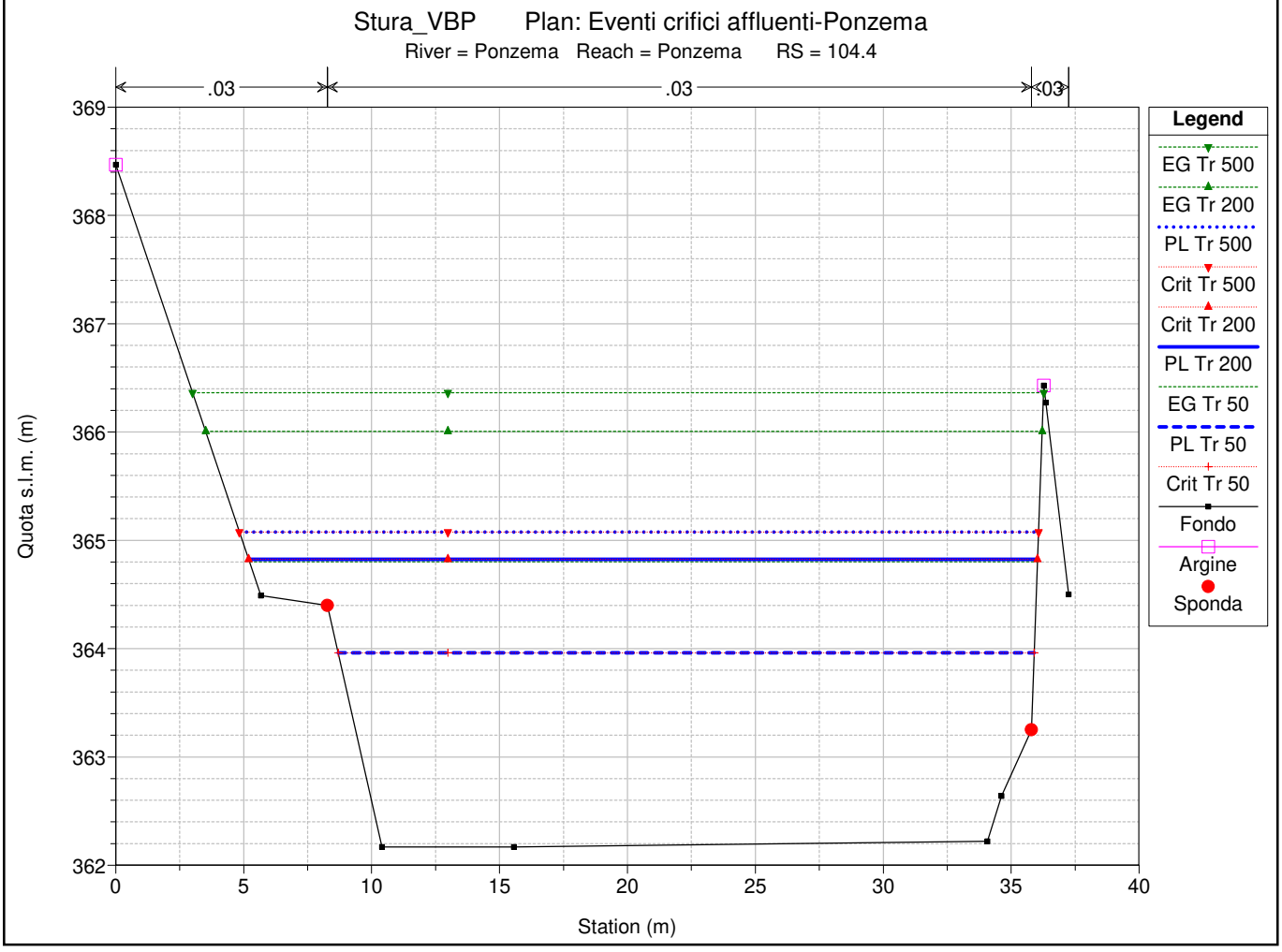
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Argine
Sponda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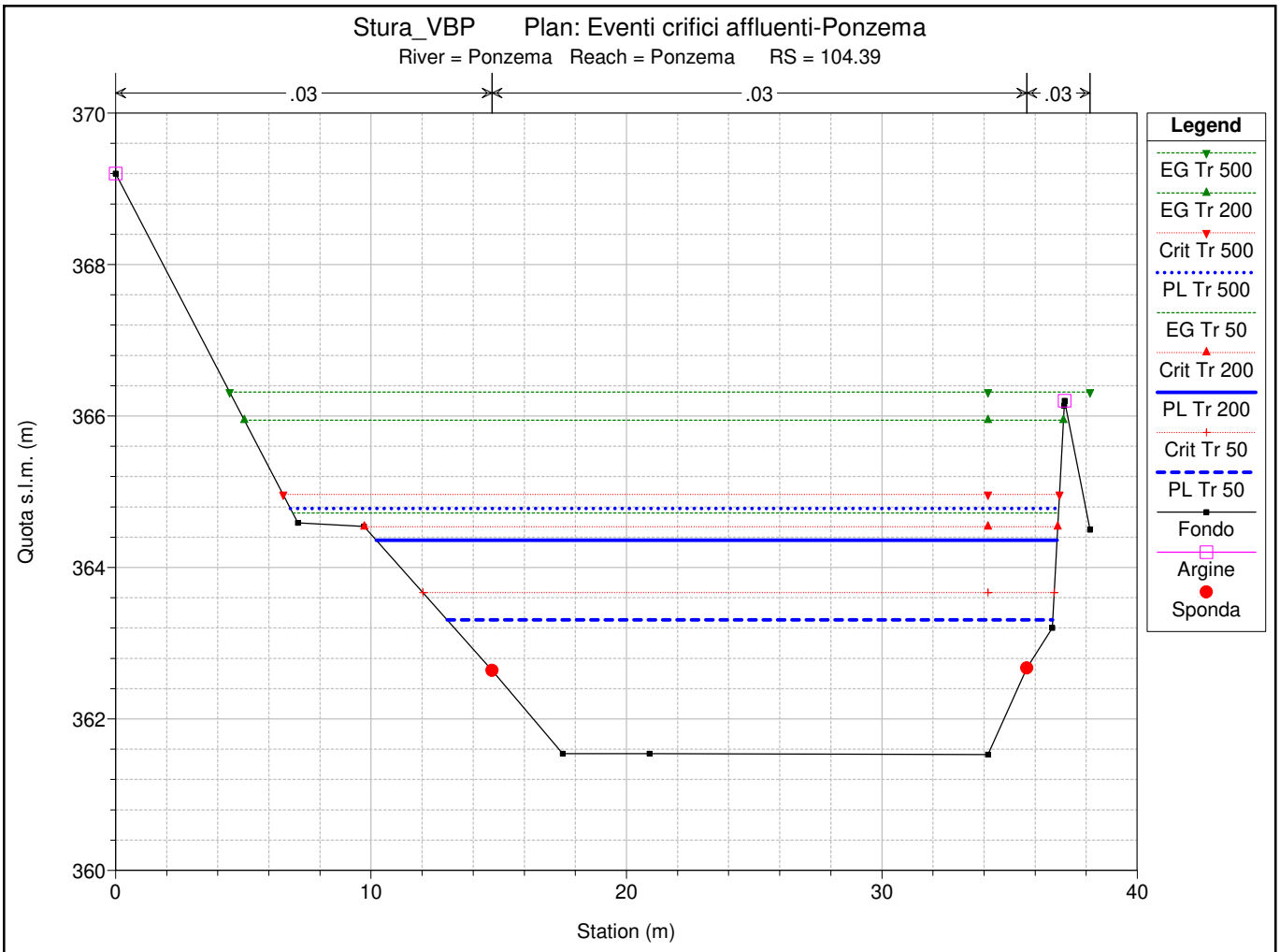
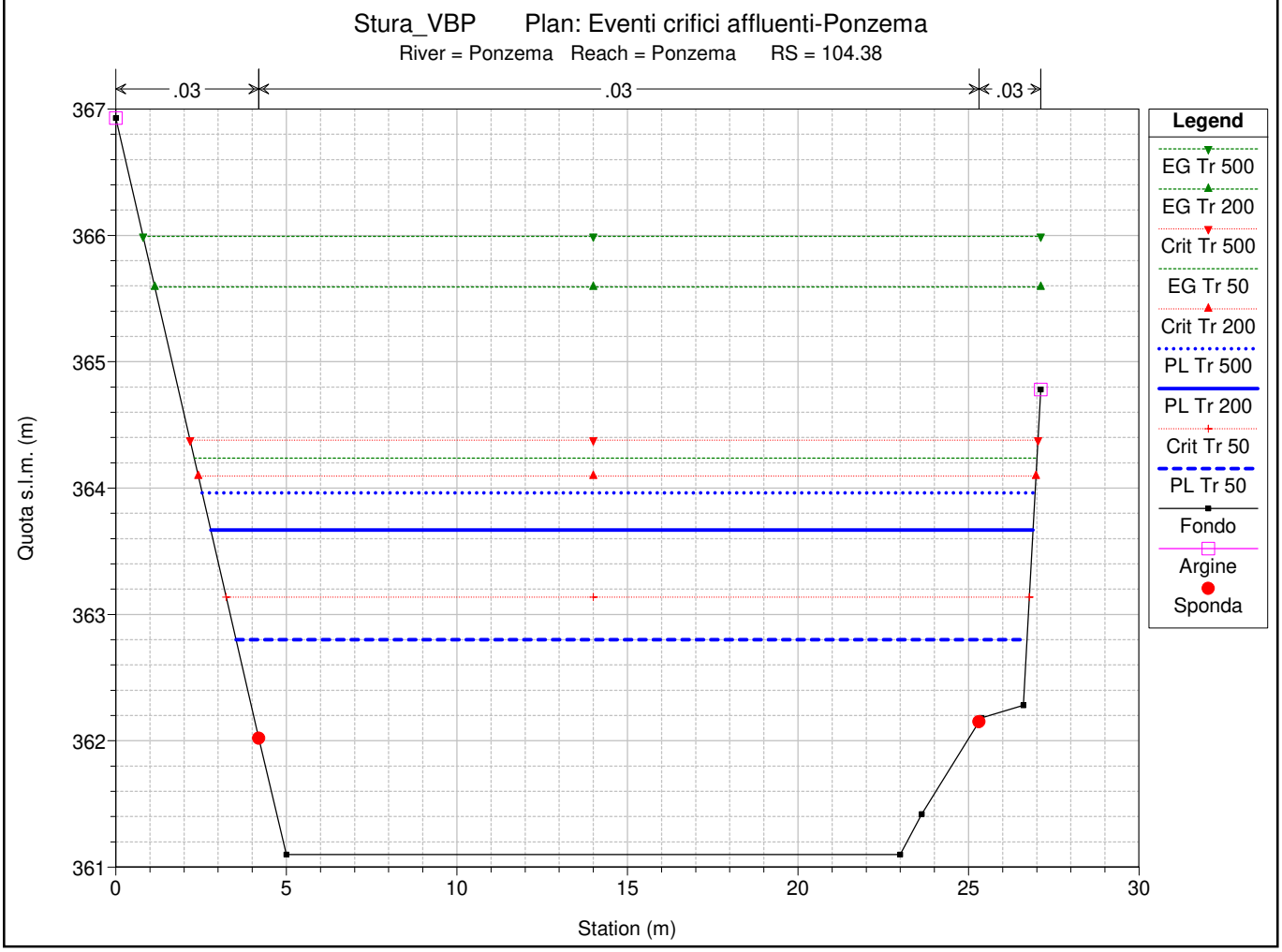
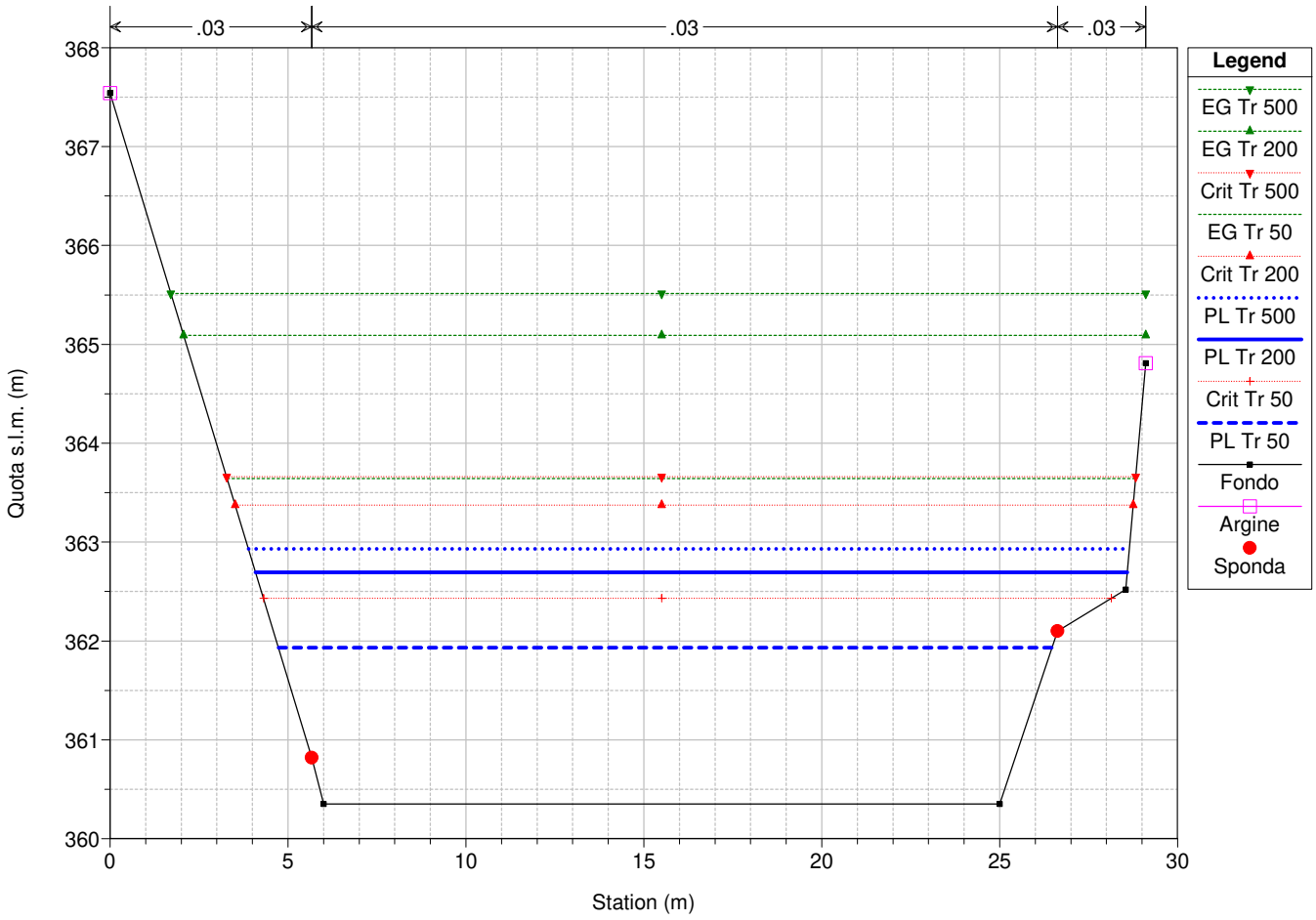
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda


Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.39
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
PL Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda


Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.38
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

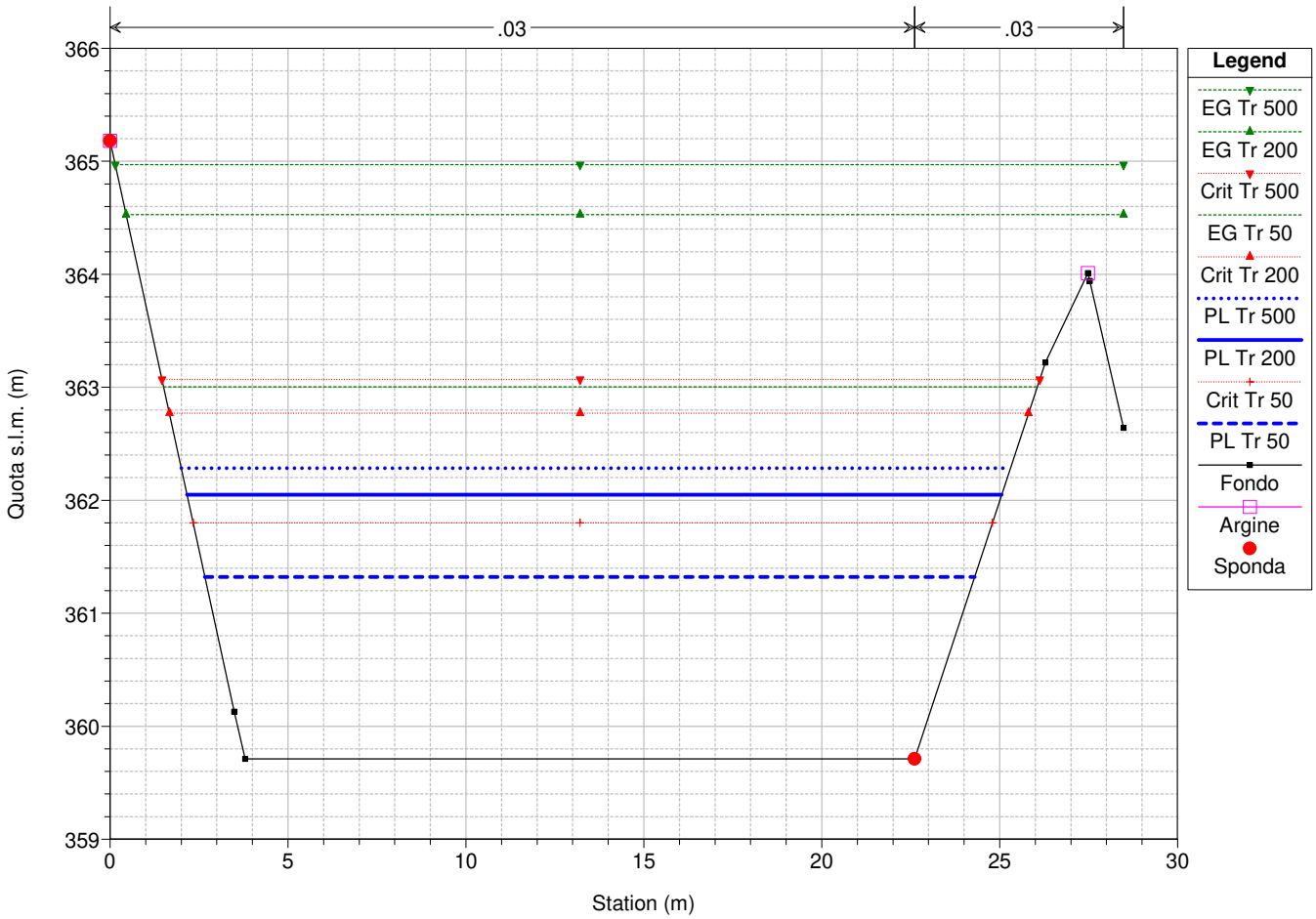
Stura_VBP Plan: Eventi crifici affluenti-Ponzema

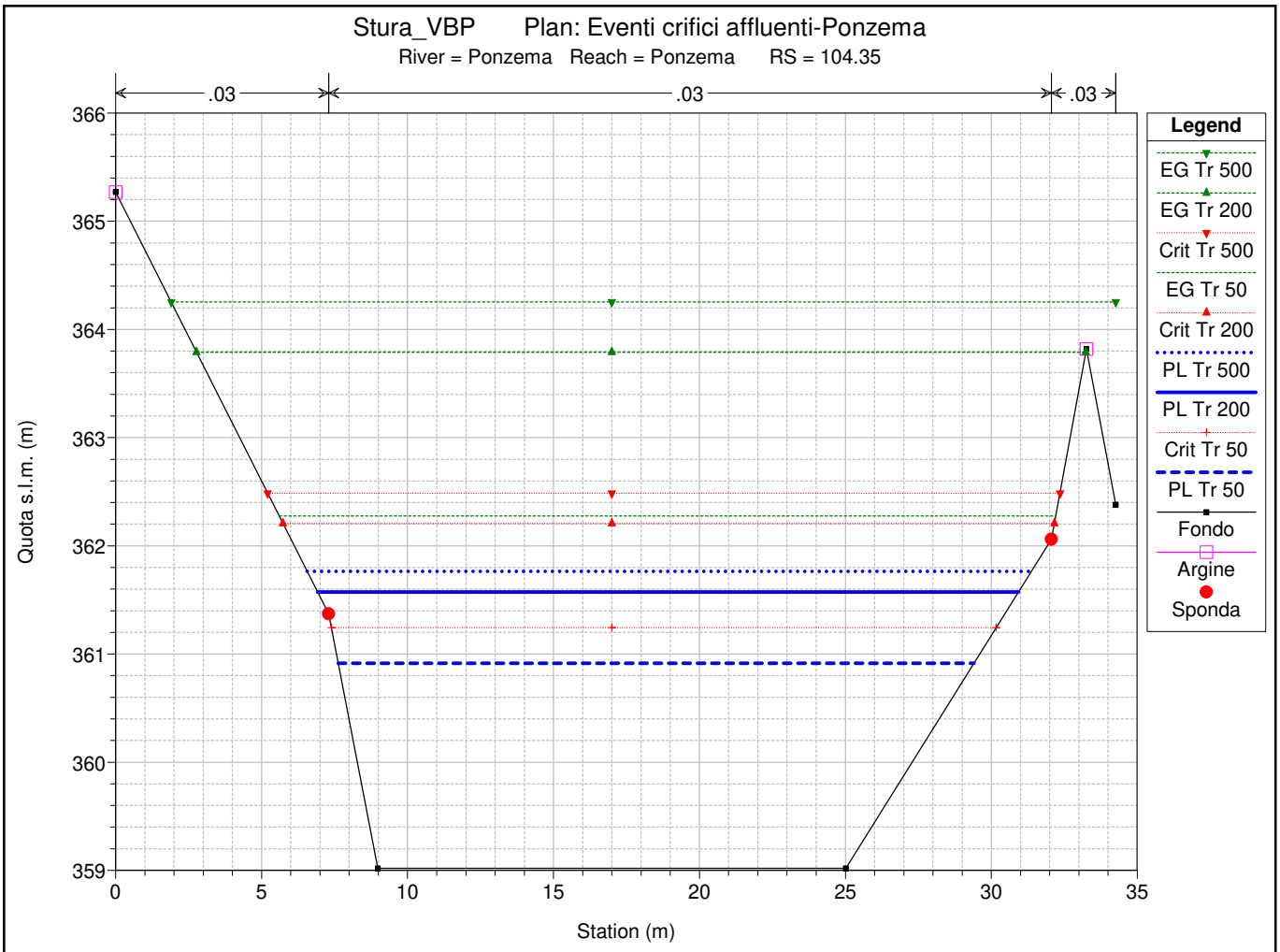
River = Ponzema Reach = Ponzema RS = 104.37

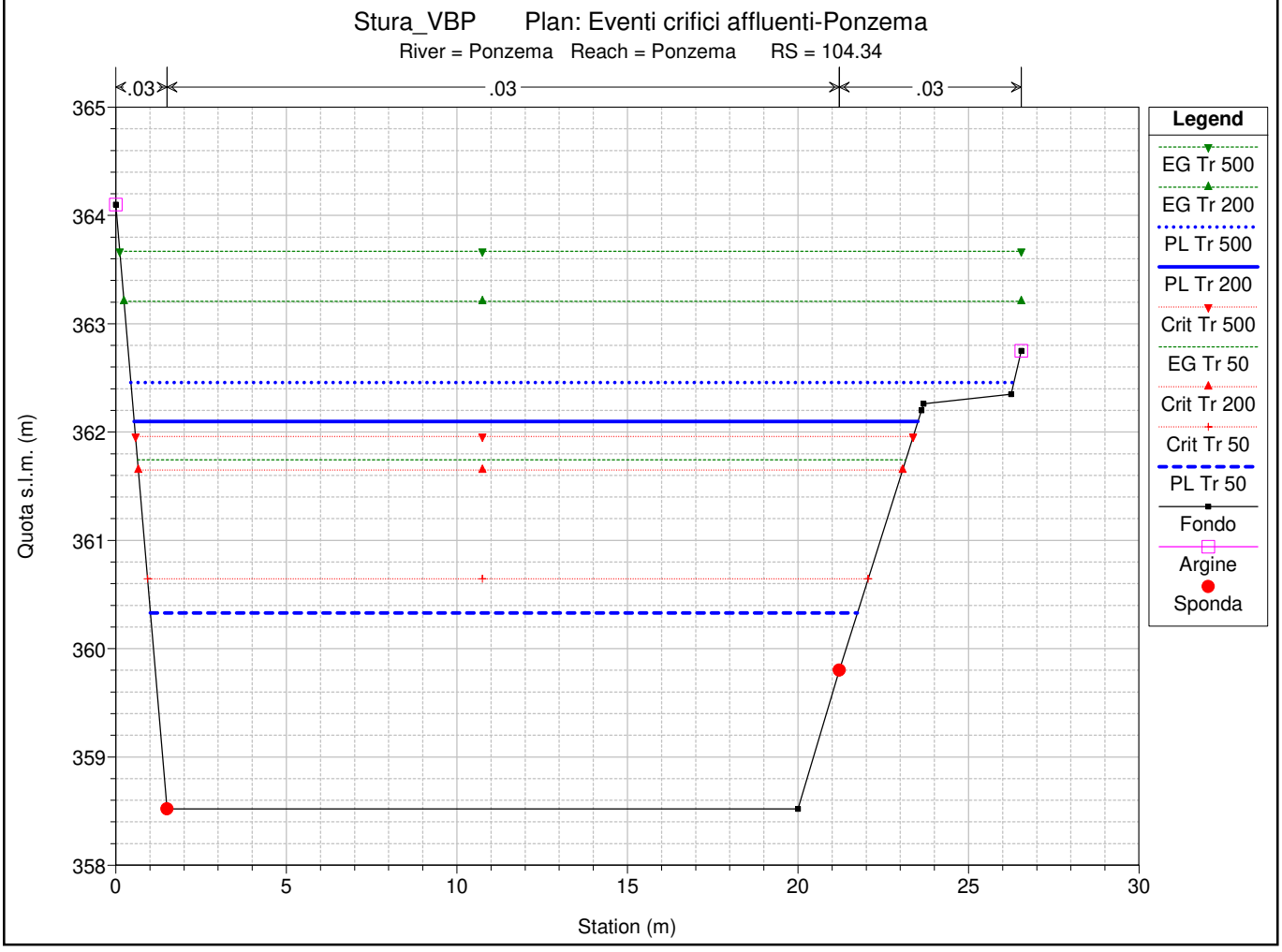


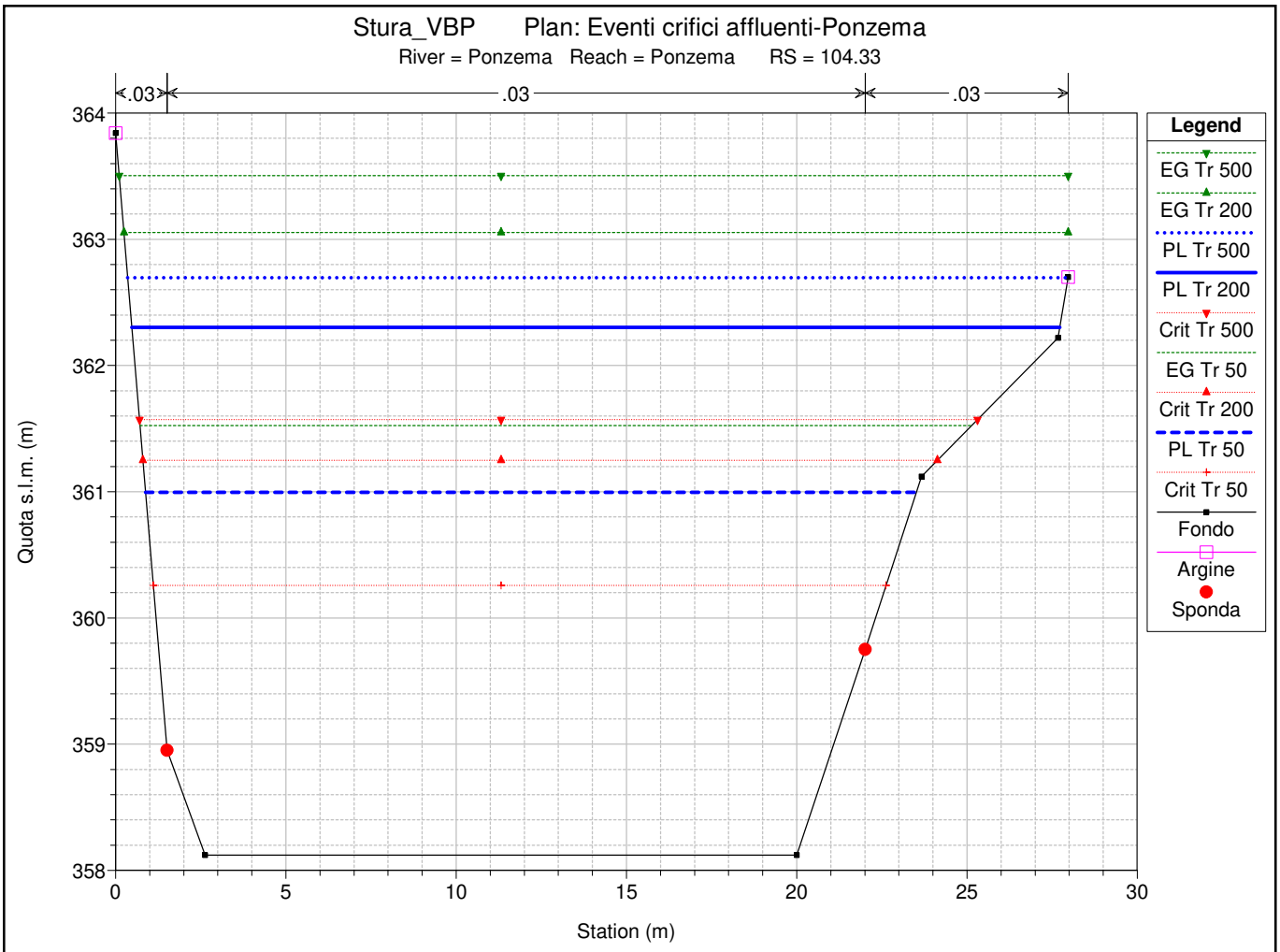
Stura_VBP Plan: Eventi crifici affluenti-Ponzema

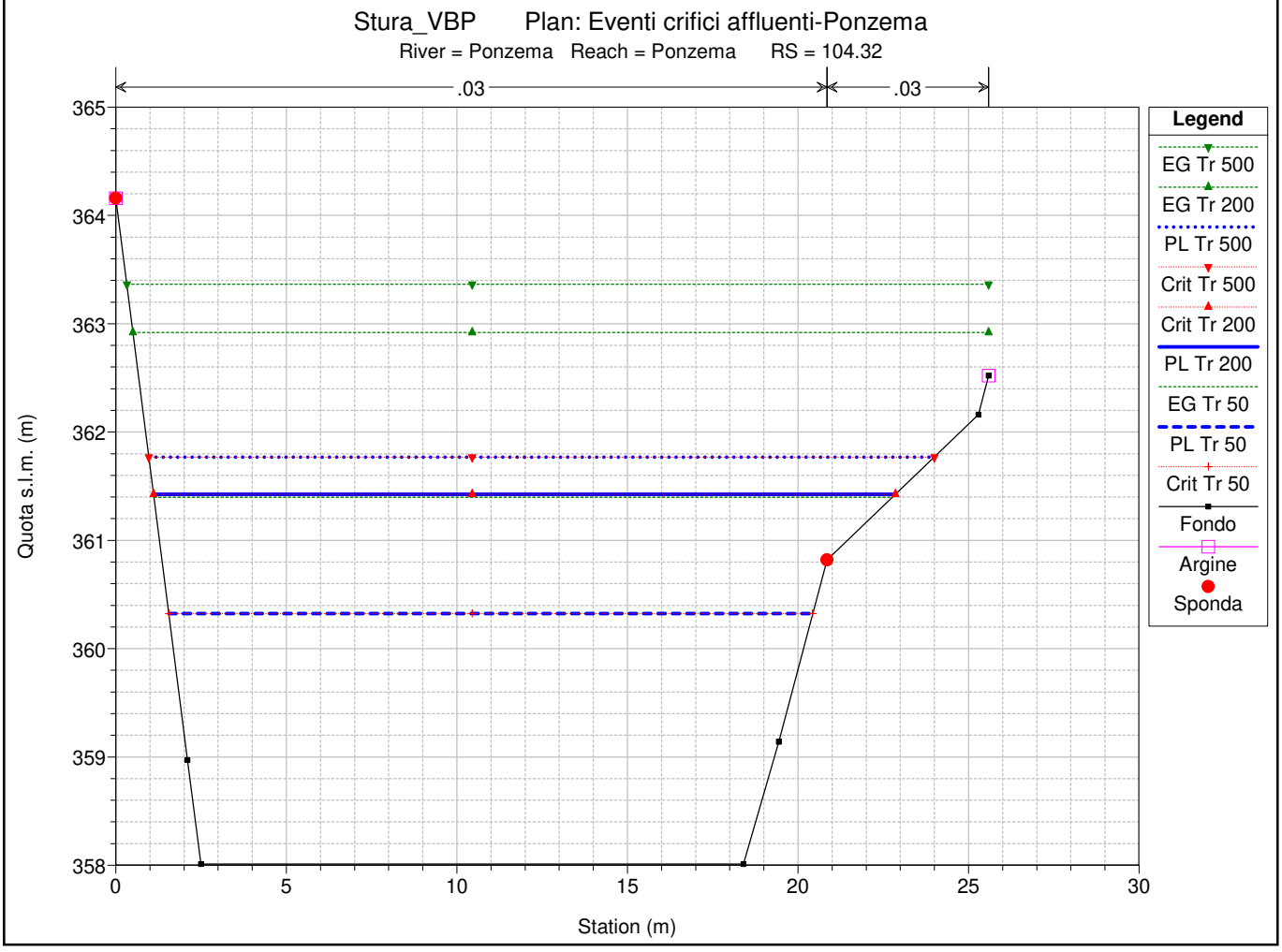
River = Ponzema Reach = Ponzema RS = 104.36

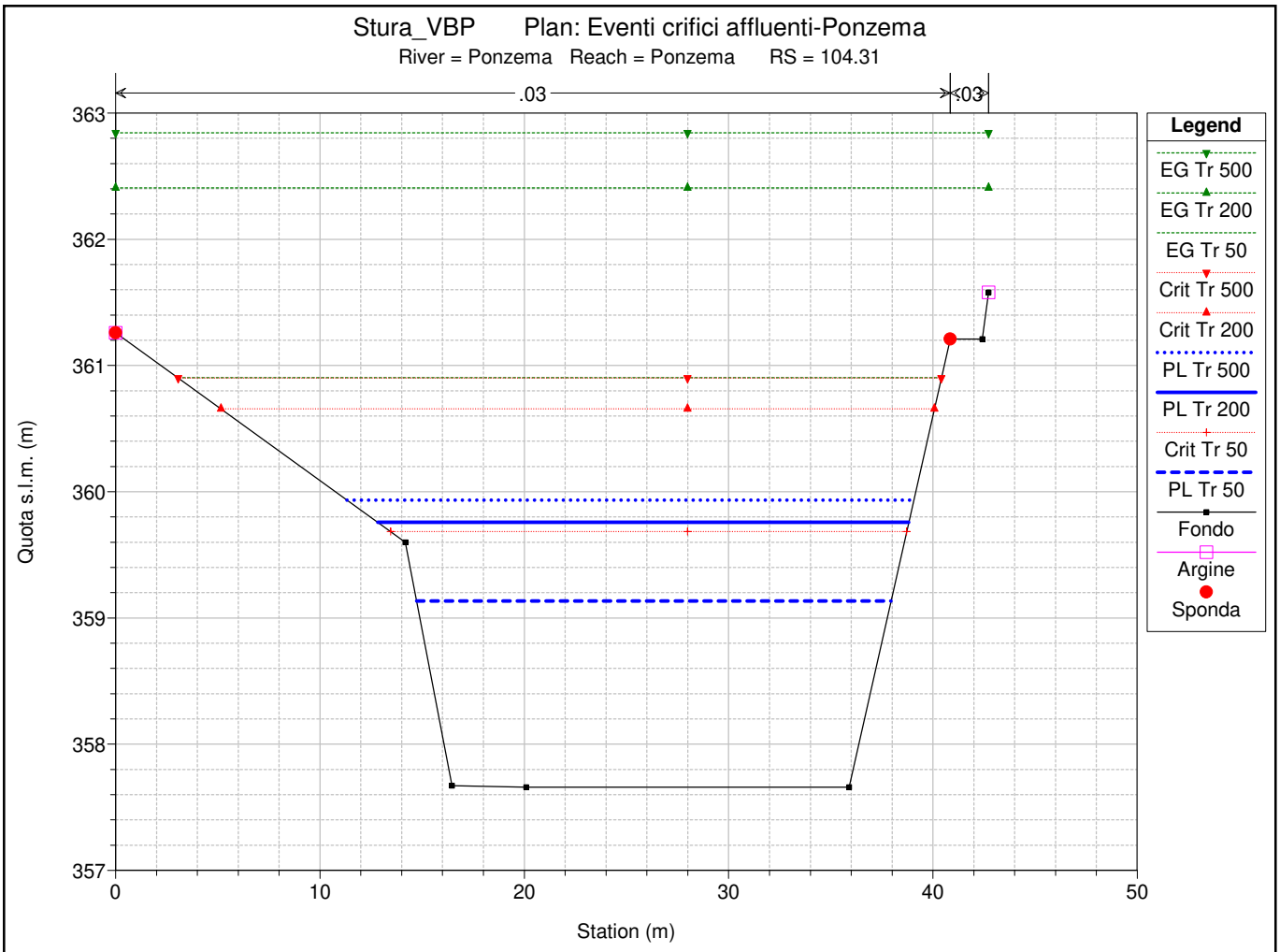


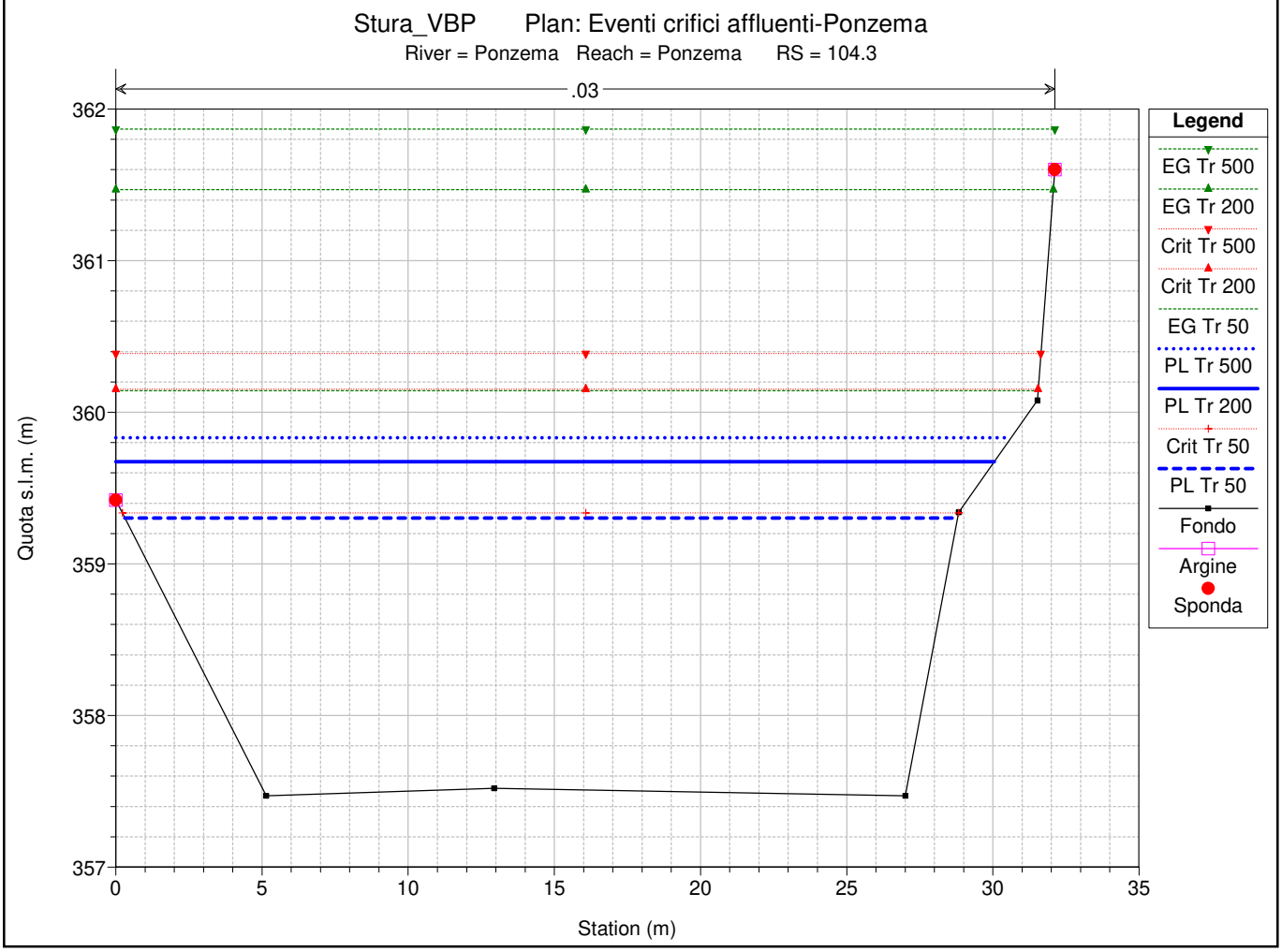

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.35
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

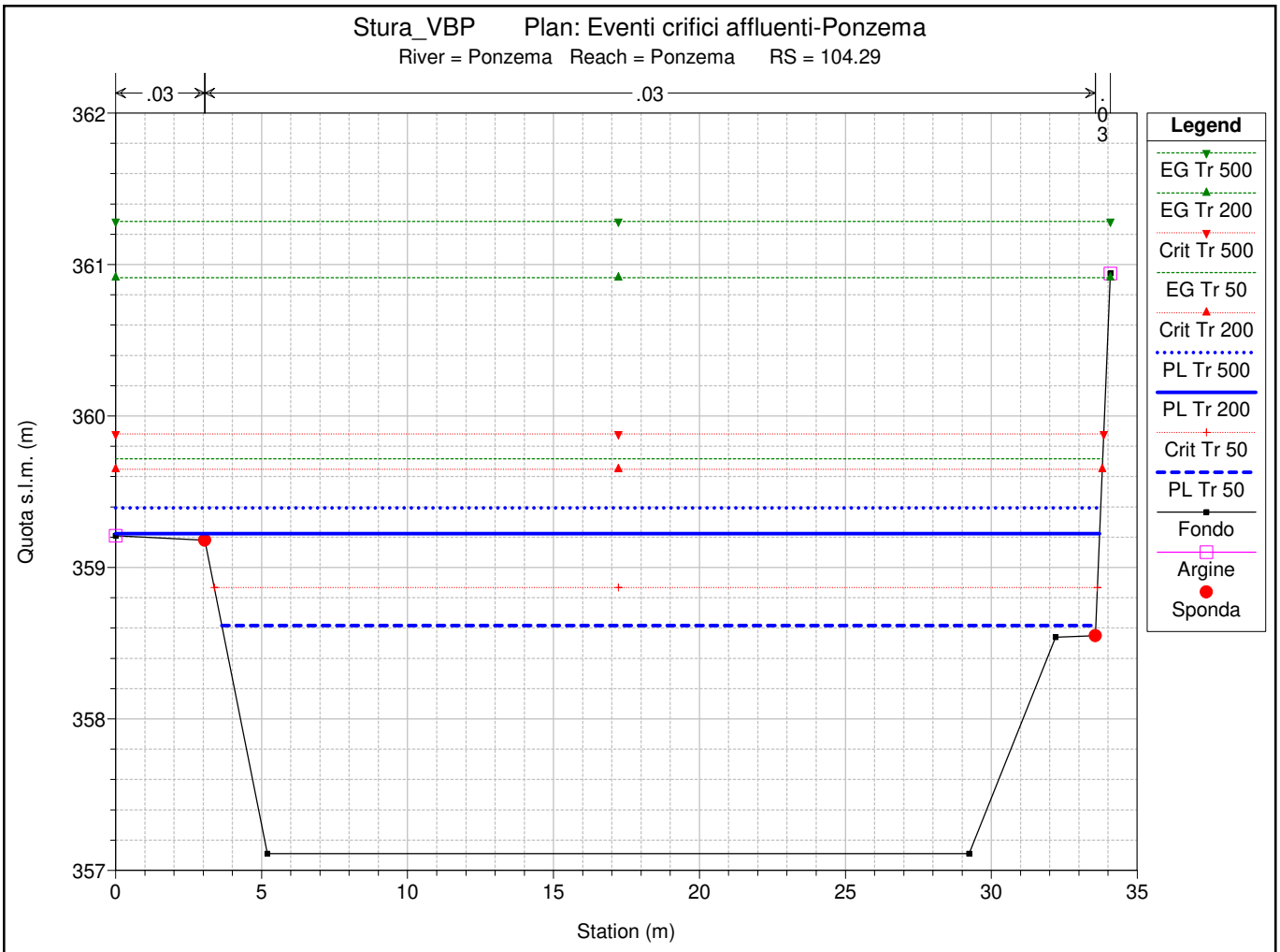

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.34
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

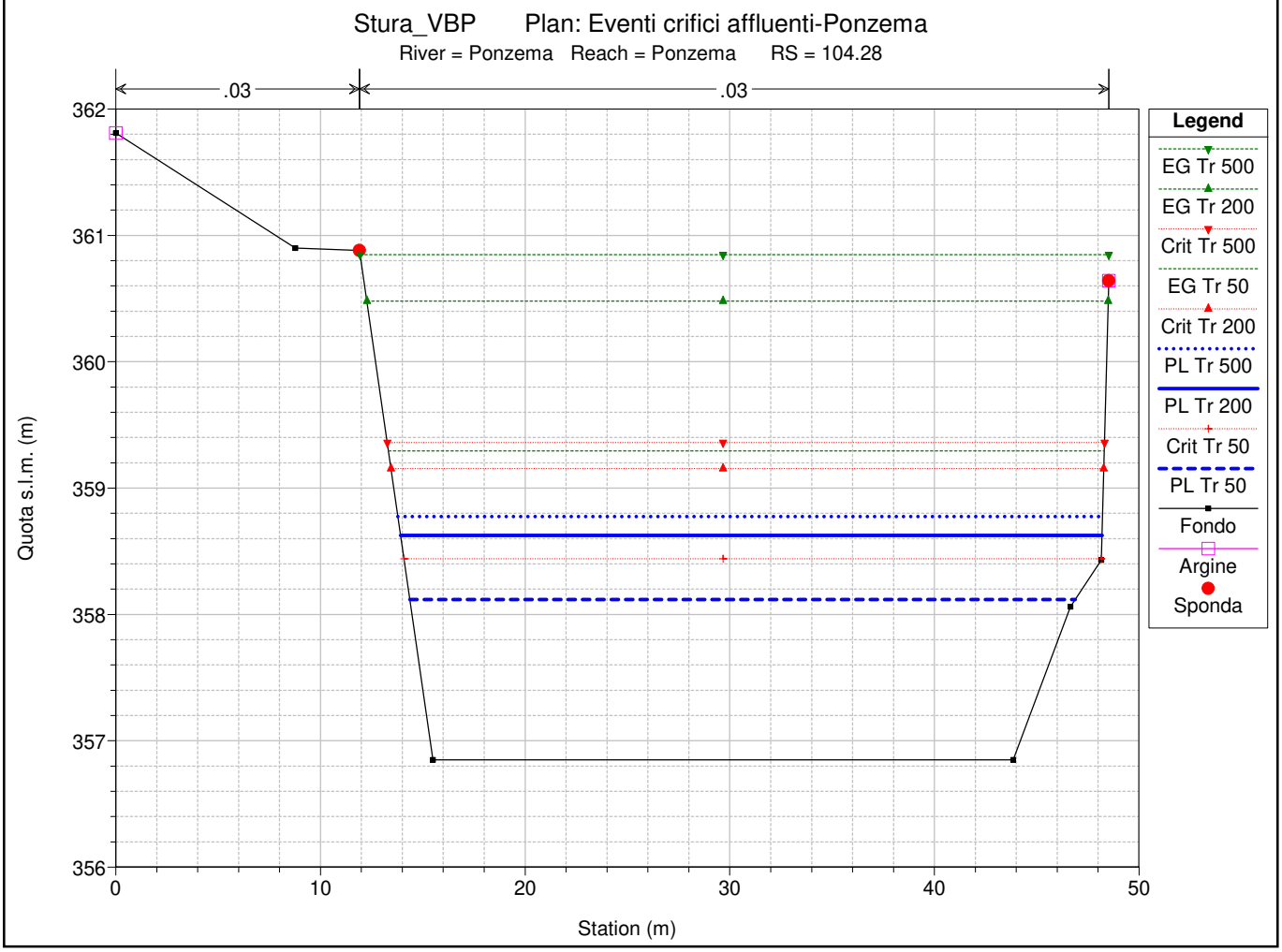

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.33
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

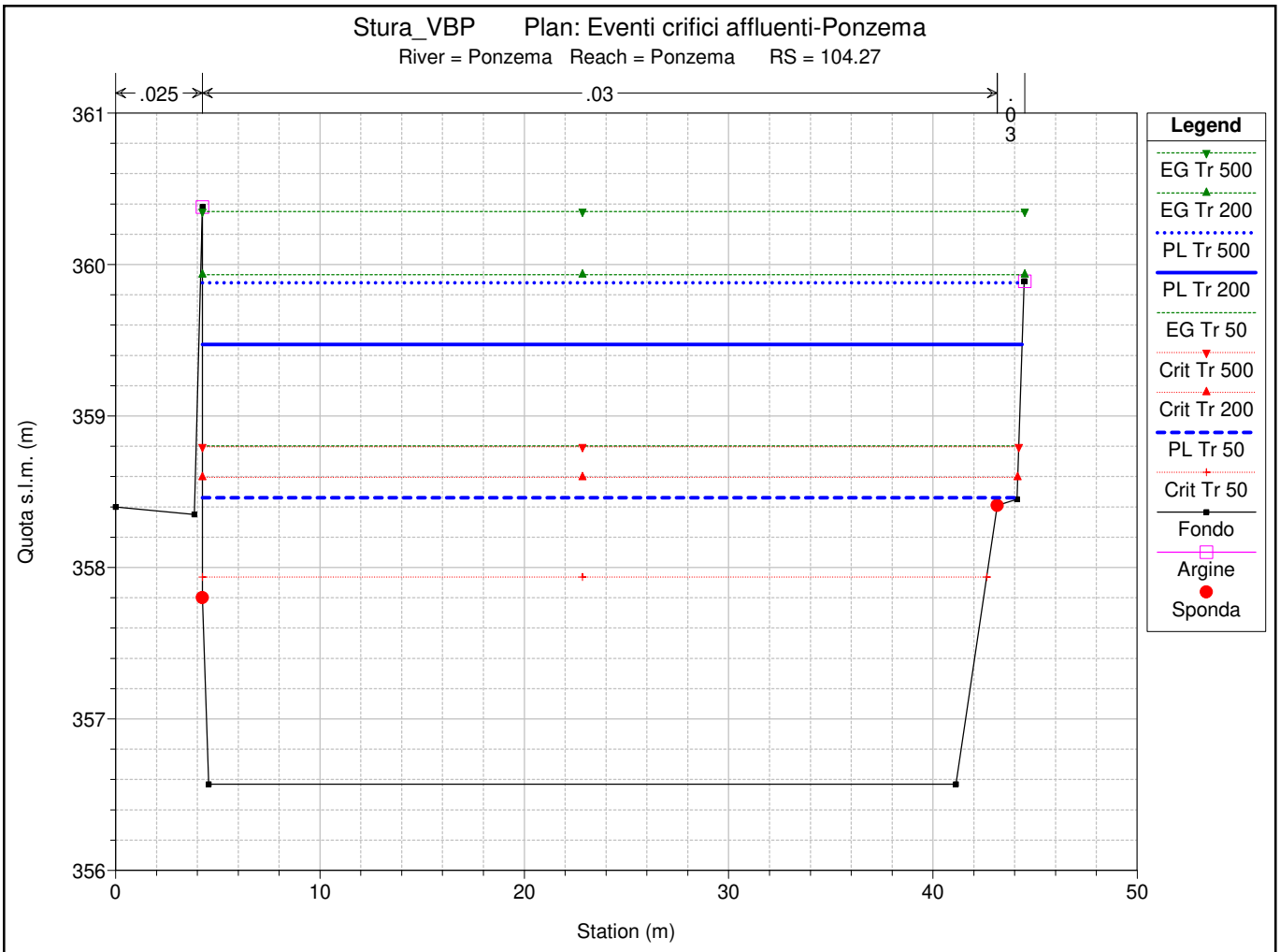

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.32
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

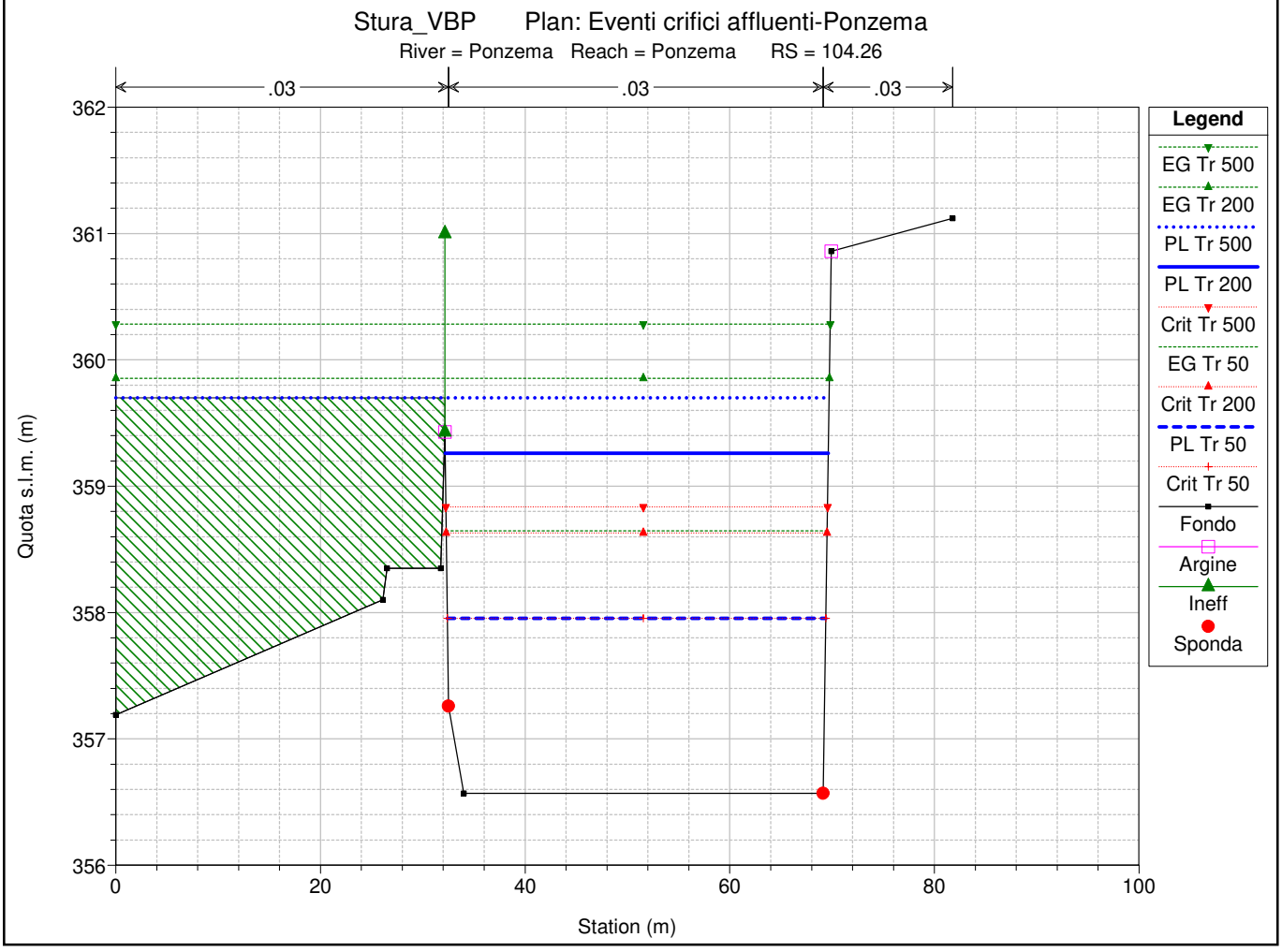

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.31
.03
.03
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda
Quota s.l.m. (m)
Station (m)
363
362
361
360
359
358
357
0
10
20
30
40
50

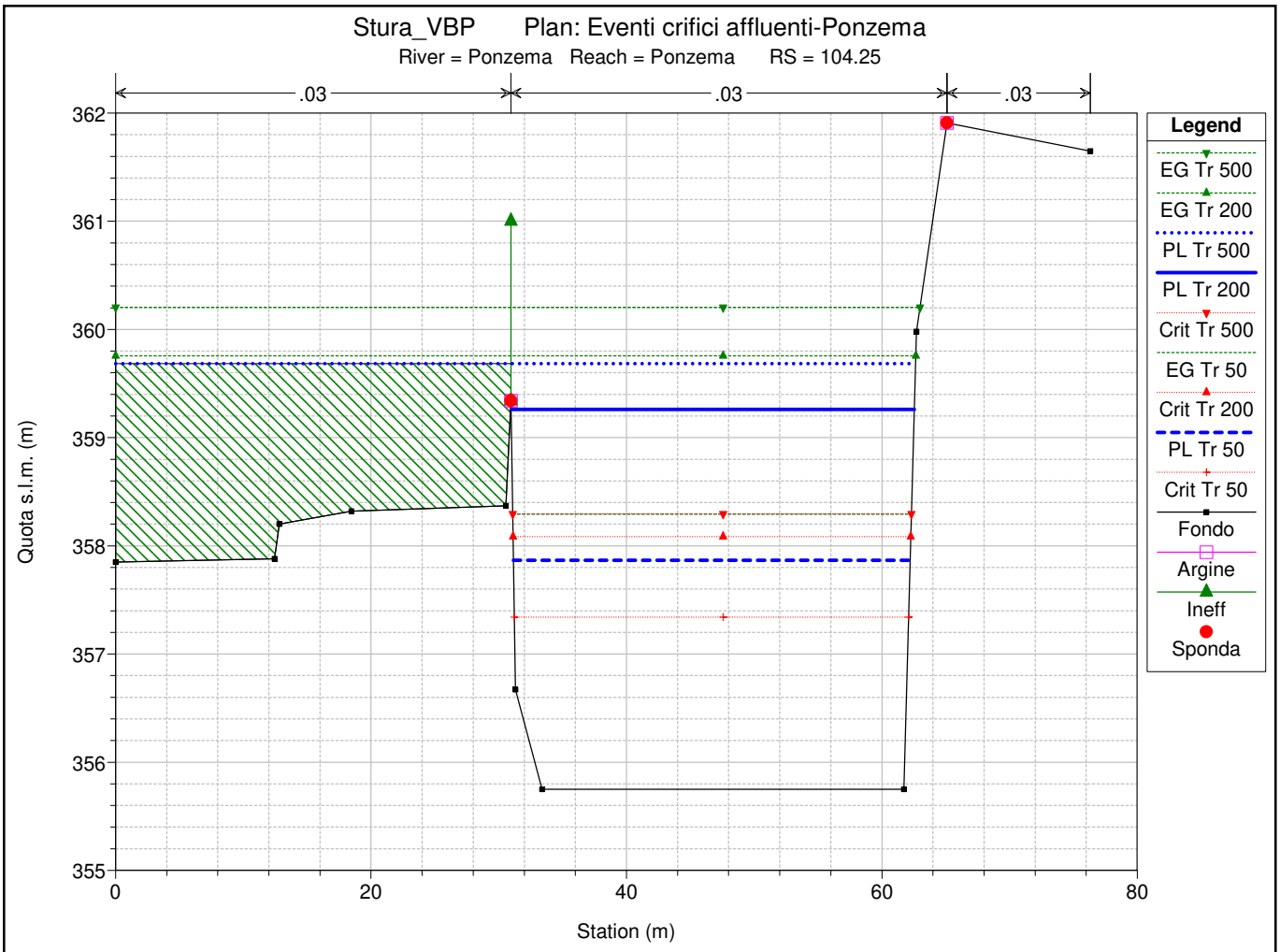

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.3
.03
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda
Quota s.l.m. (m)
Station (m)
362
361
360
359
358
357
0
5
10
15
20
25
30
35

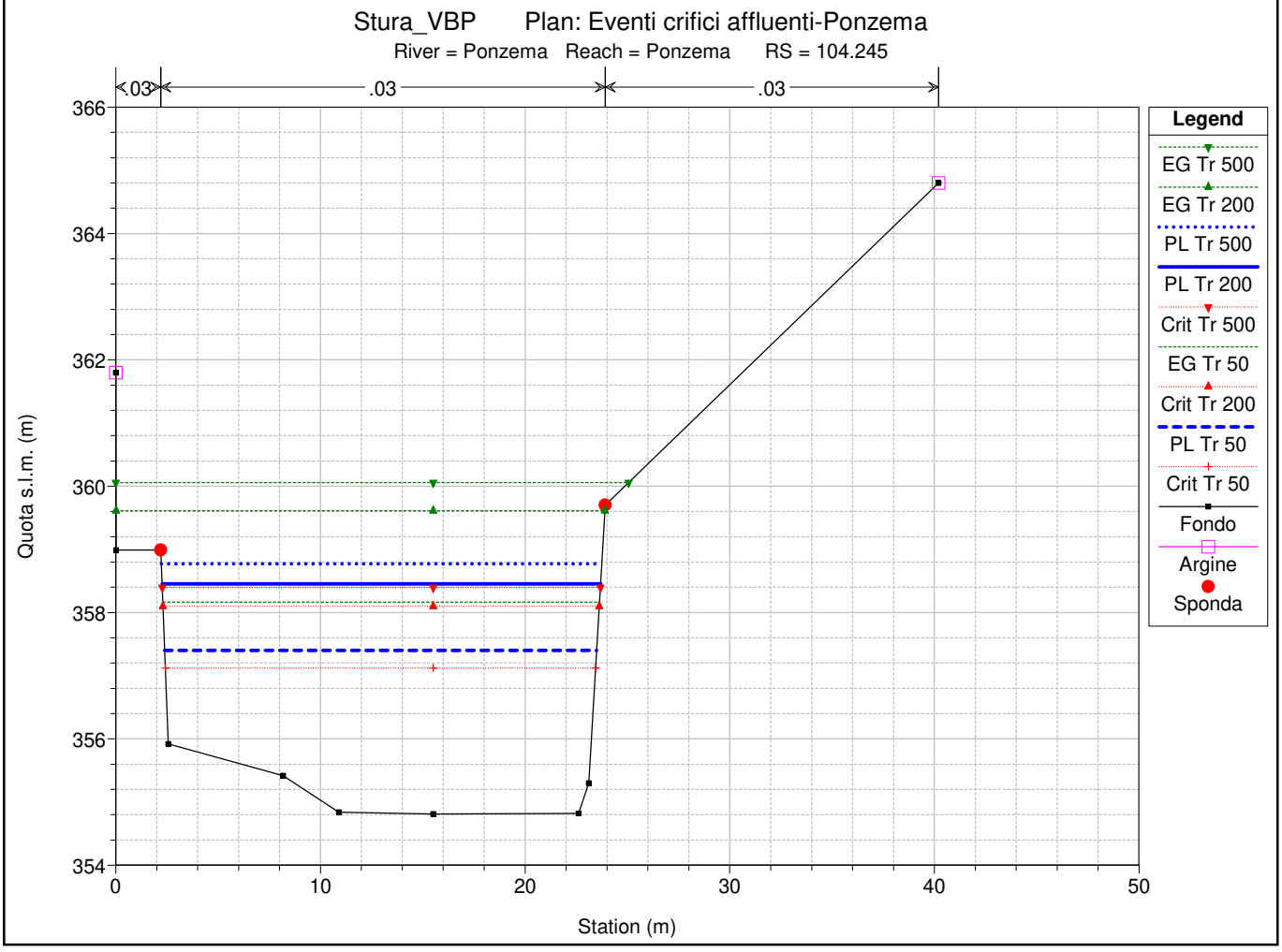

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.29
.03
.03
.03
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda
Quota s.l.m. (m)
Station (m)
362
361
360
359
358
357
0
5
10
15
20
25
30
35

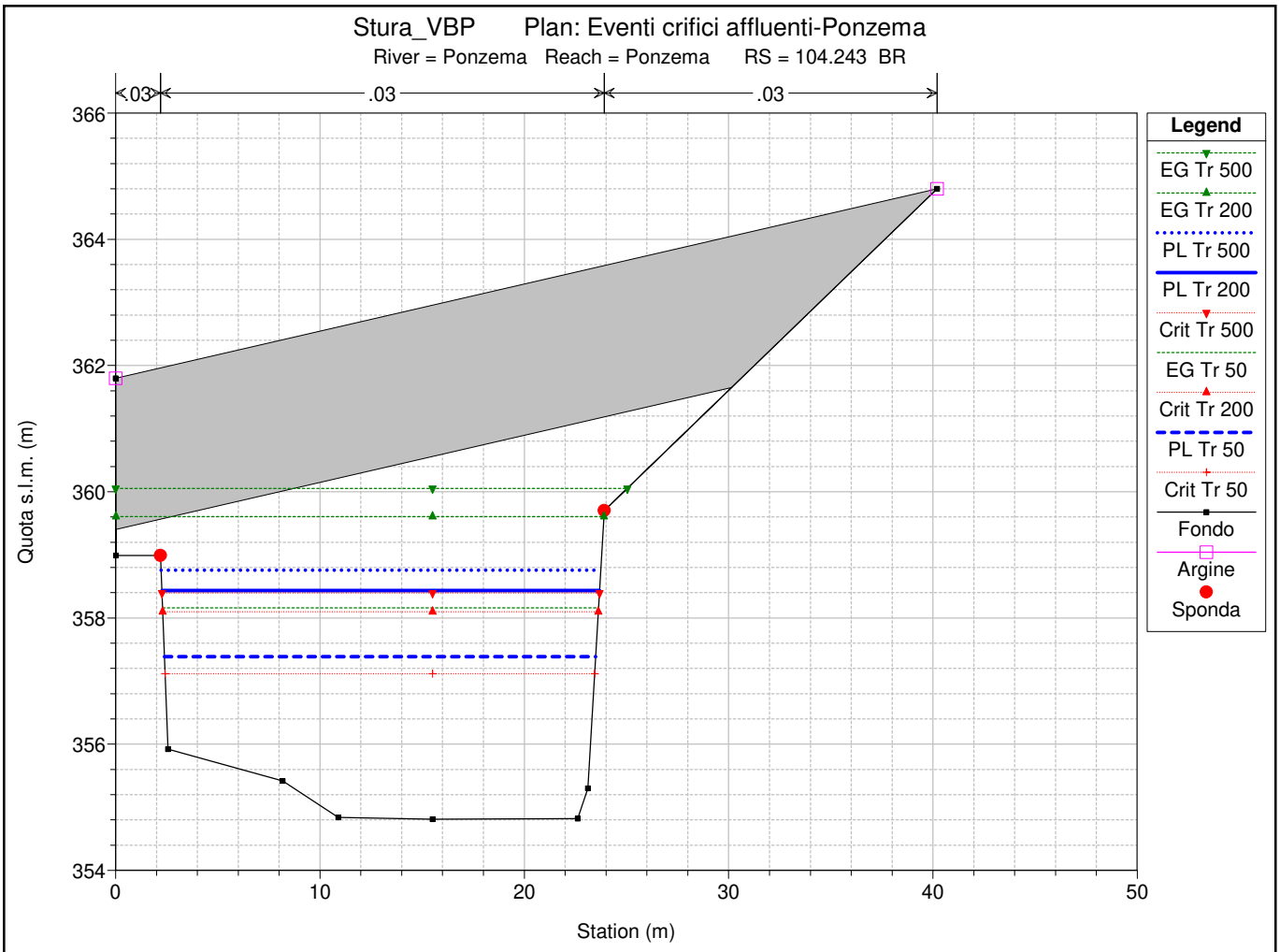

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.28
.03
.03
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda
Quota s.l.m. (m)
Station (m)
362
361
360
359
358
357
356
0
10
20
30
40
50

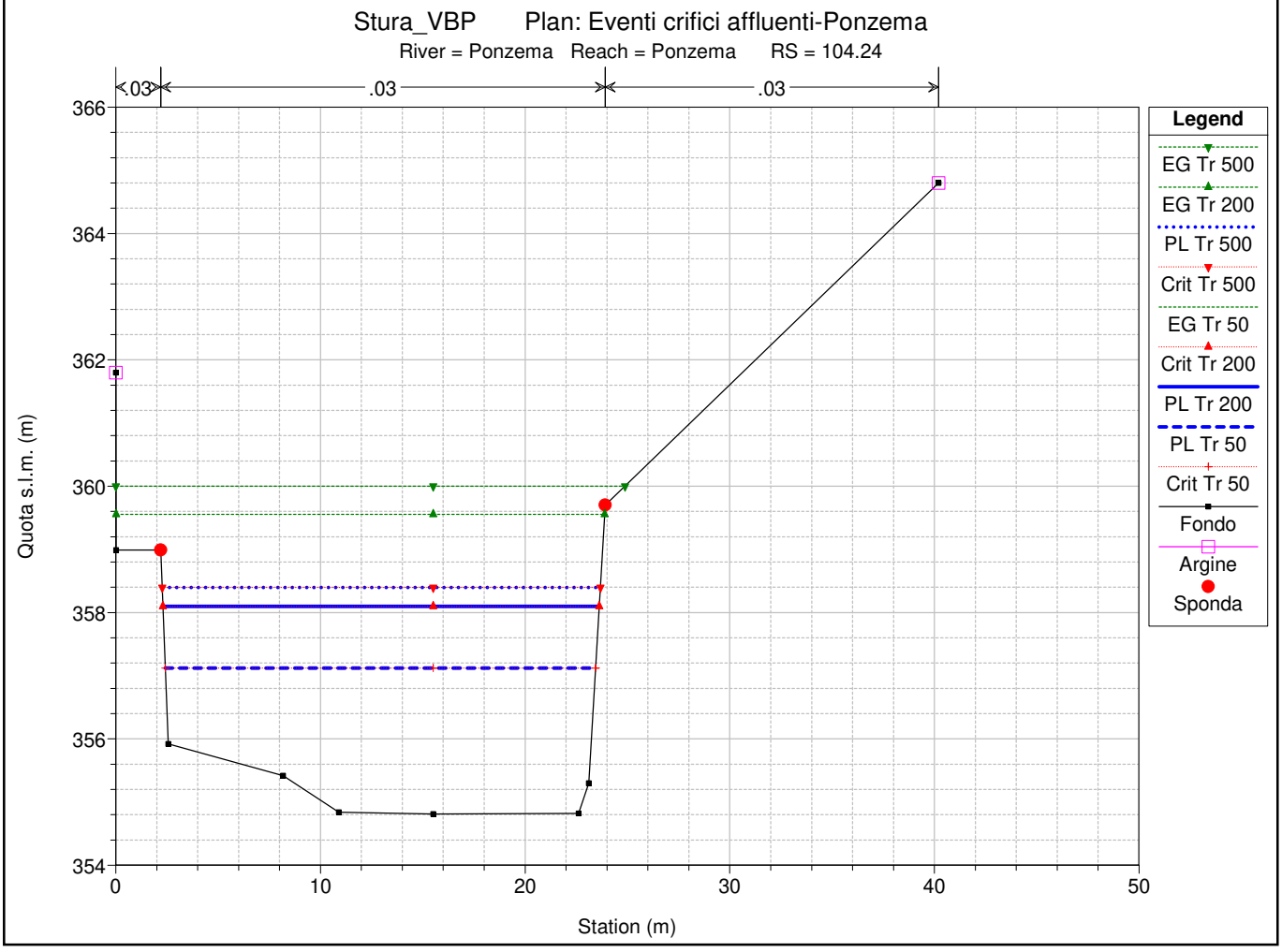

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.27
.025
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda


Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.26
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Ineff
Sponda


Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.25
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Ineff
Sponda

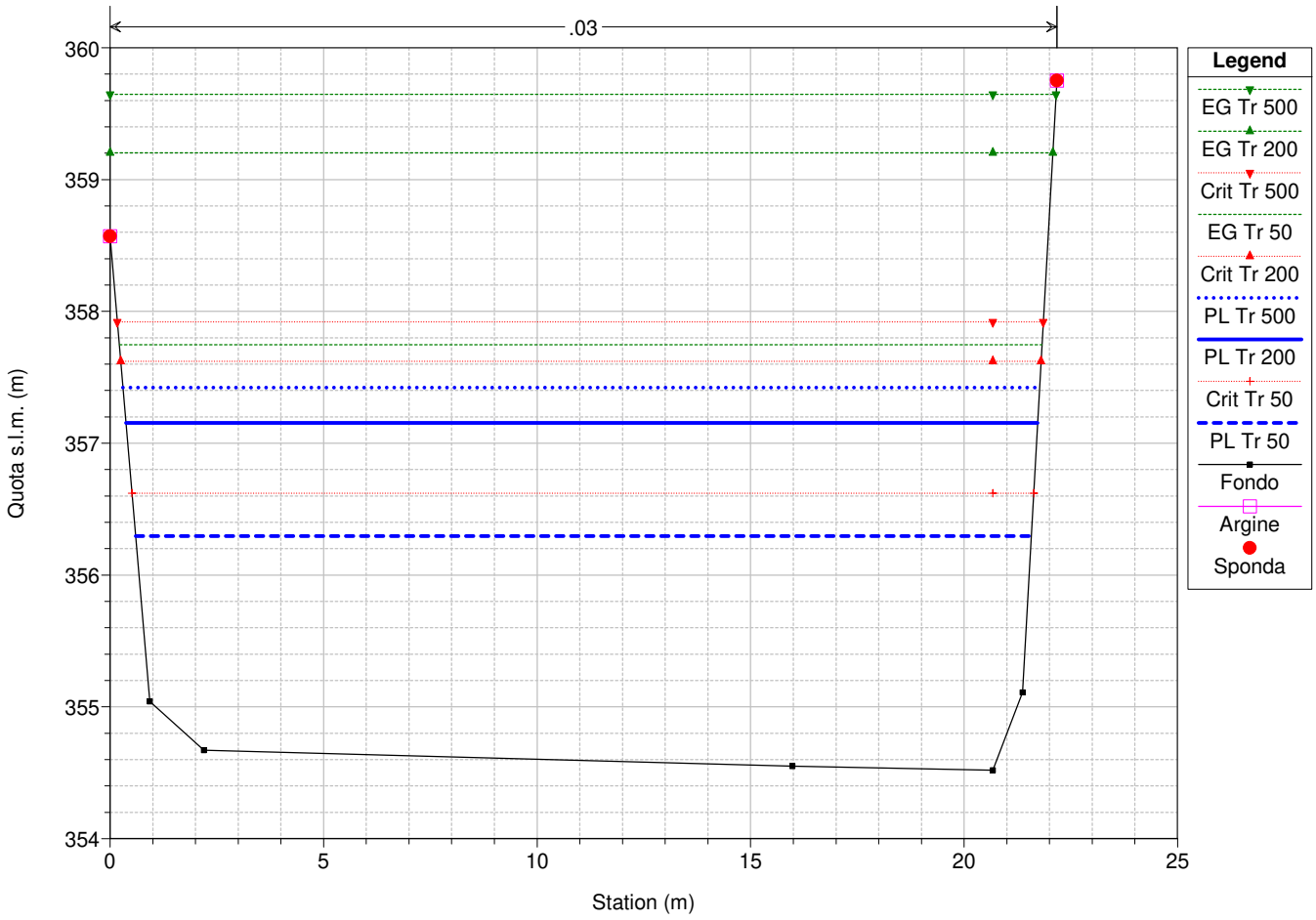

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.245
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda


Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.243 BR
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda


Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.24
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

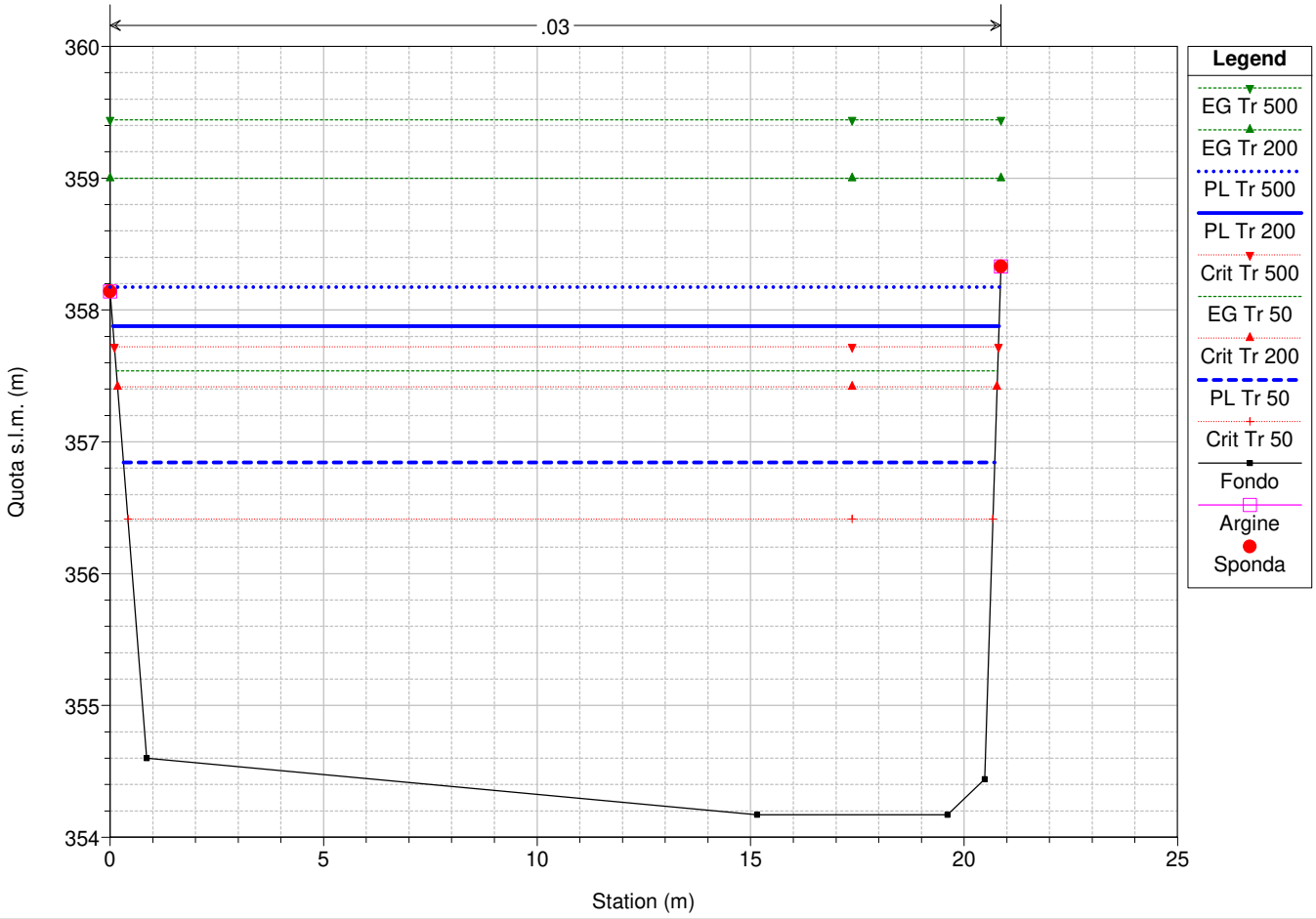
Stura_VBP Plan: Eventi crifici affluenti-Ponzema

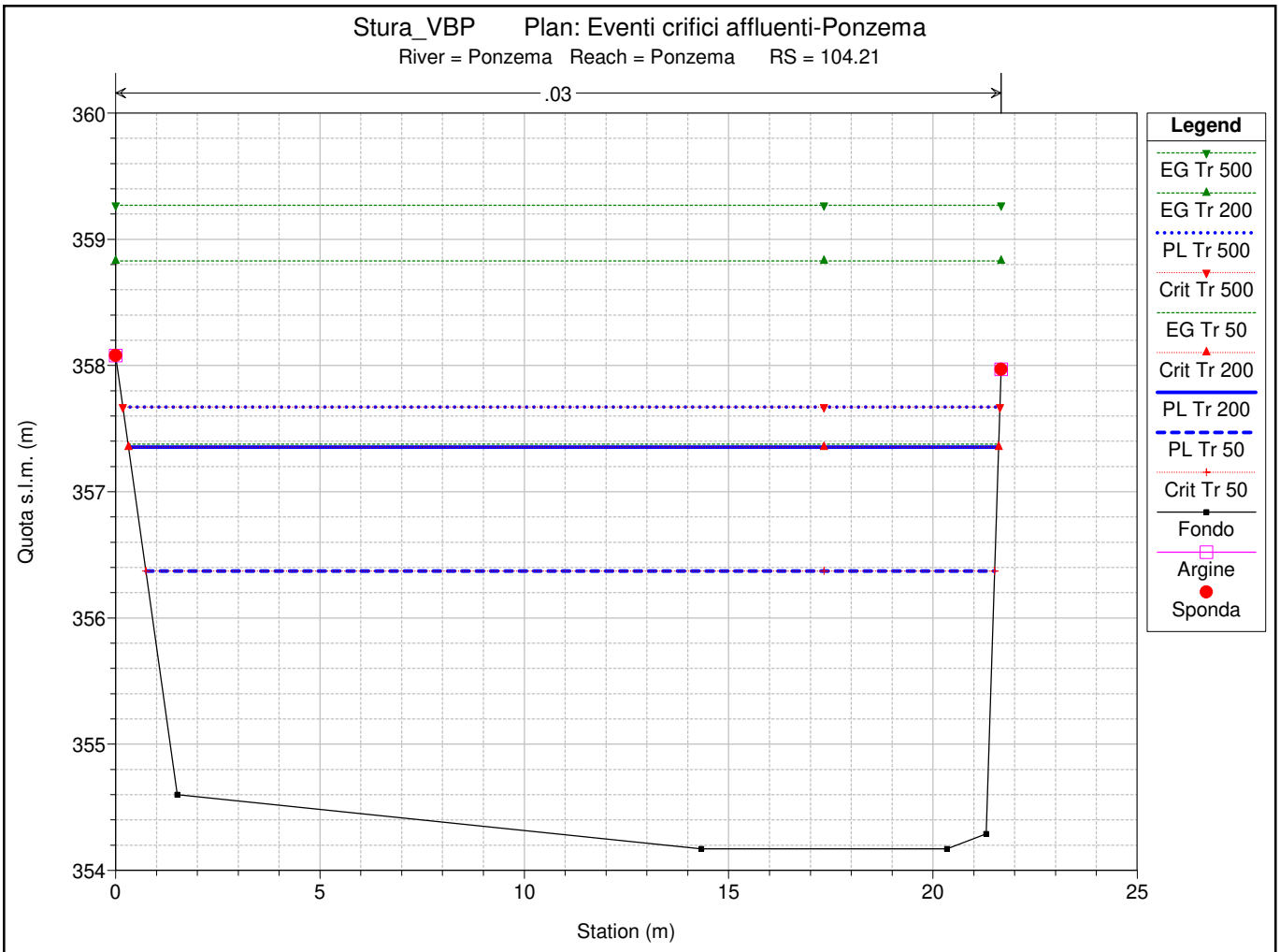
River = Ponzema Reach = Ponzema RS = 104.23

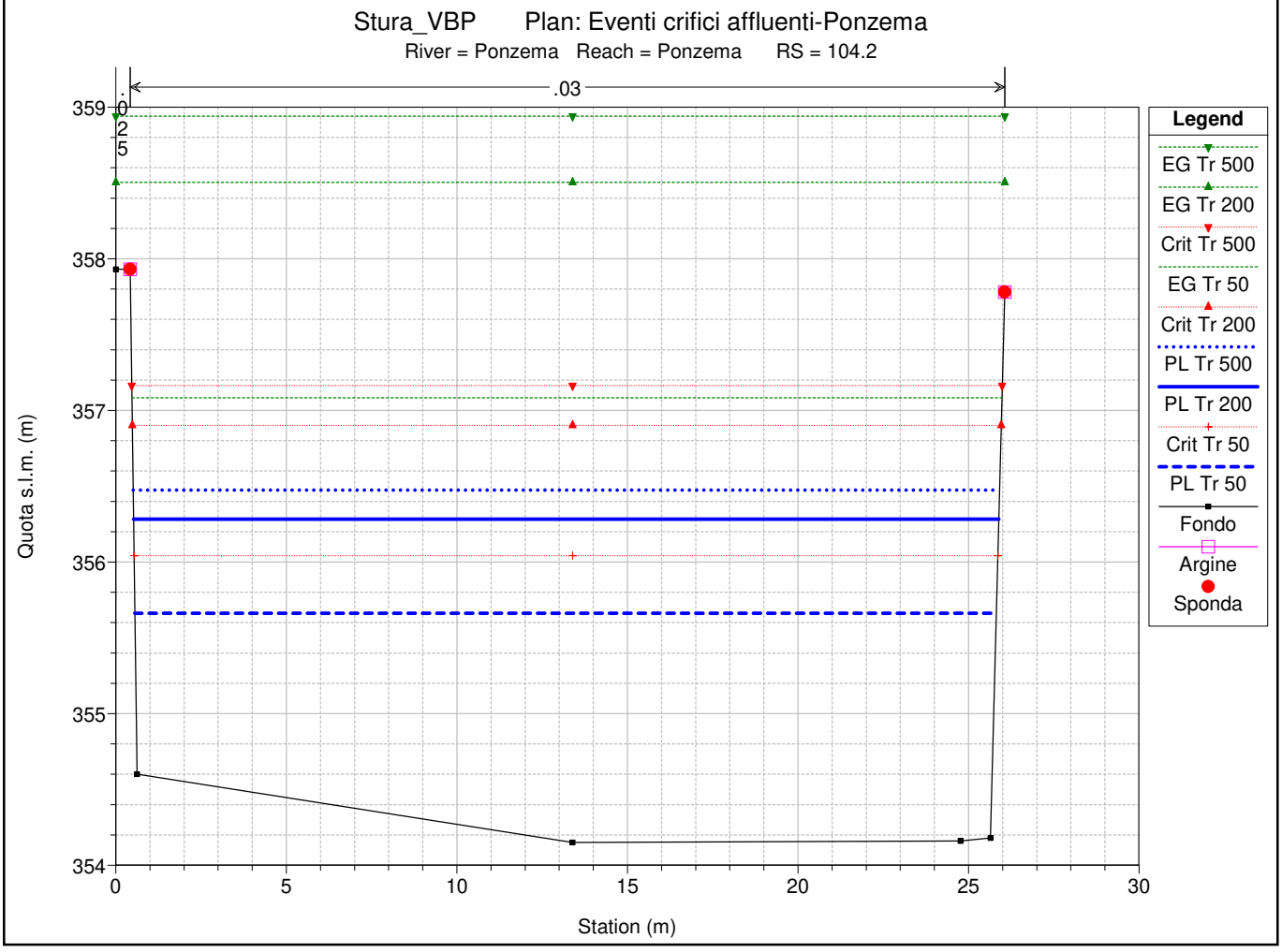


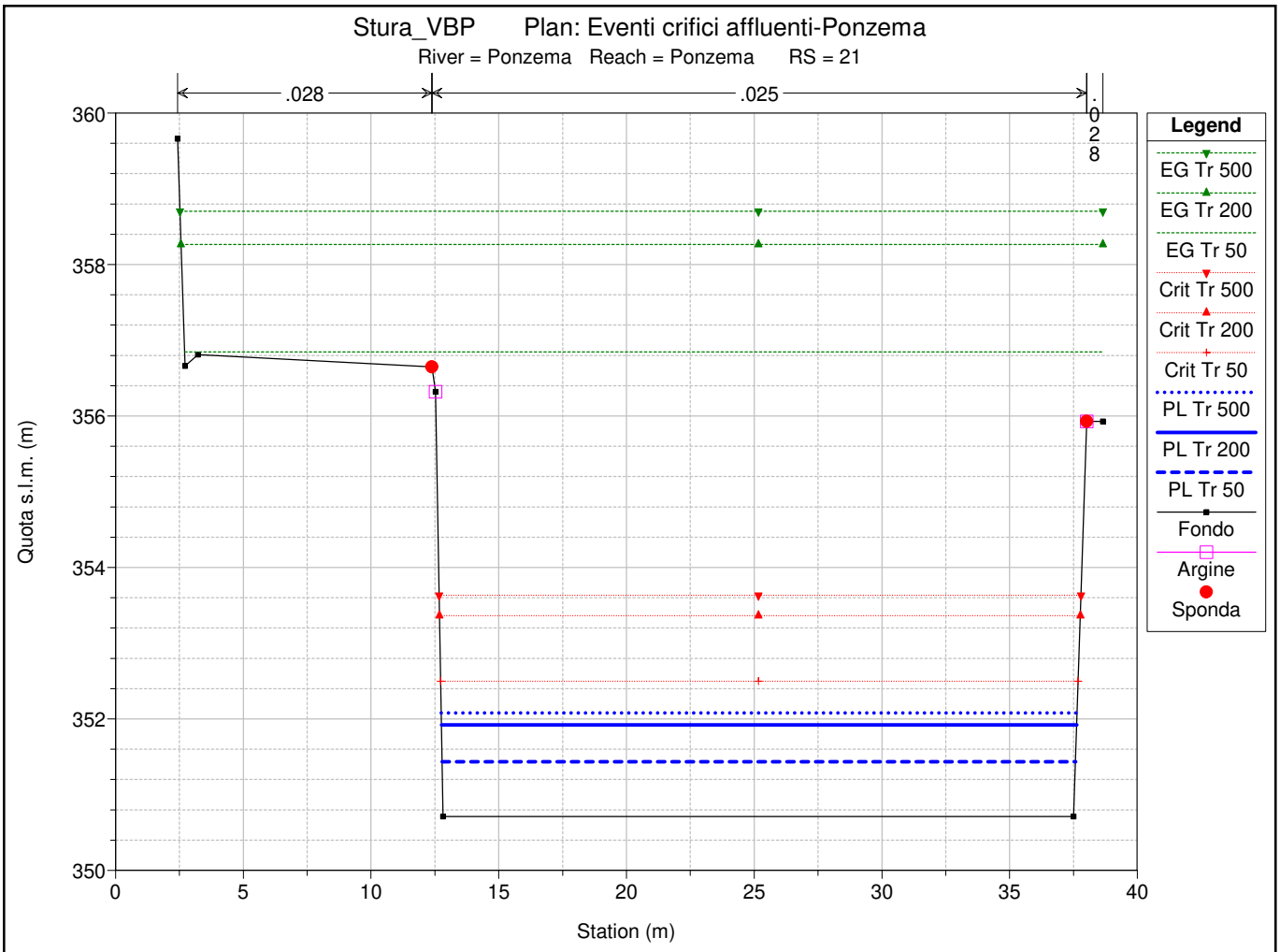
Stura_VBP Plan: Eventi crifici affluenti-Ponzema

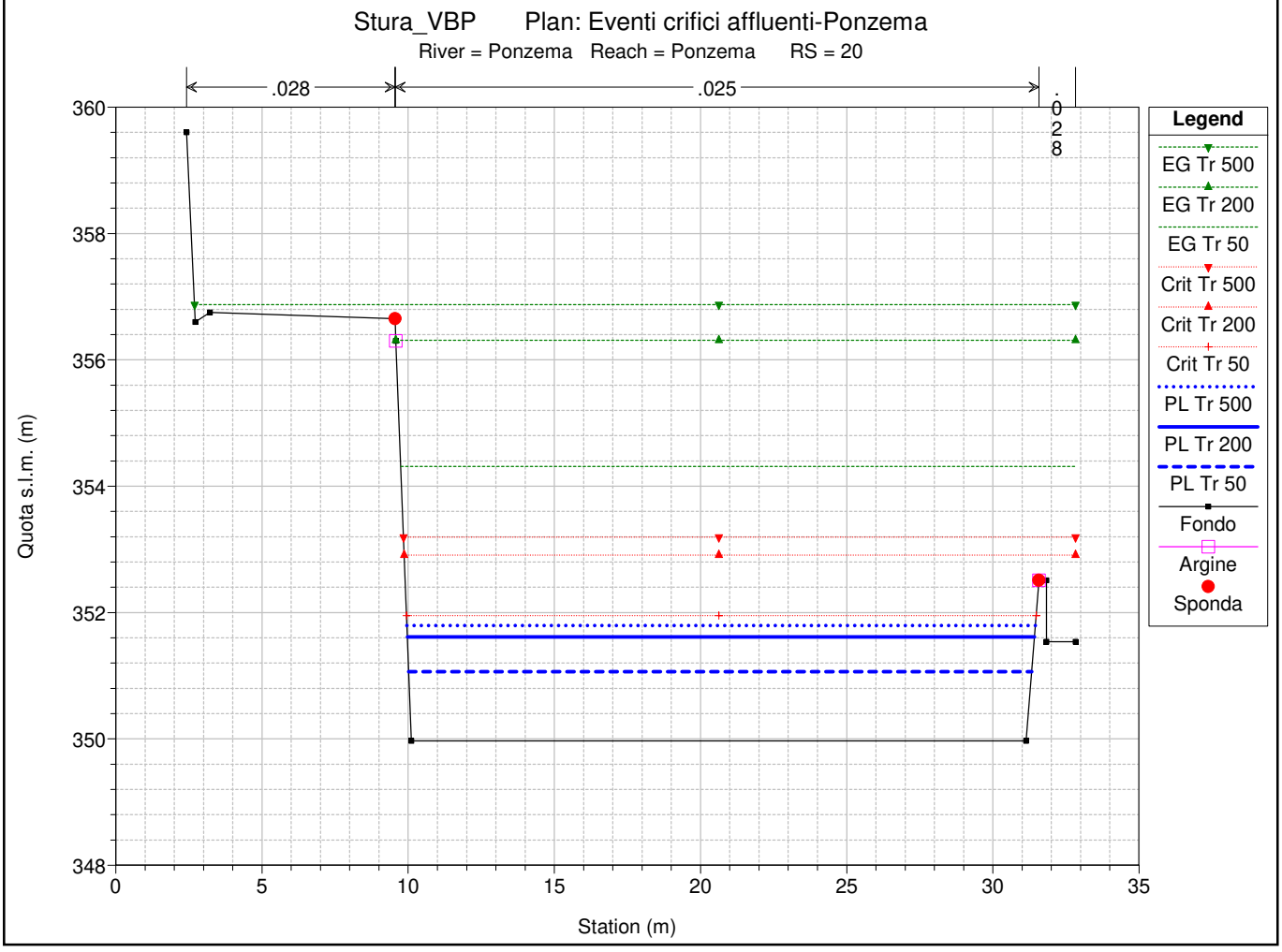
River = Ponzema Reach = Ponzema RS = 104.22

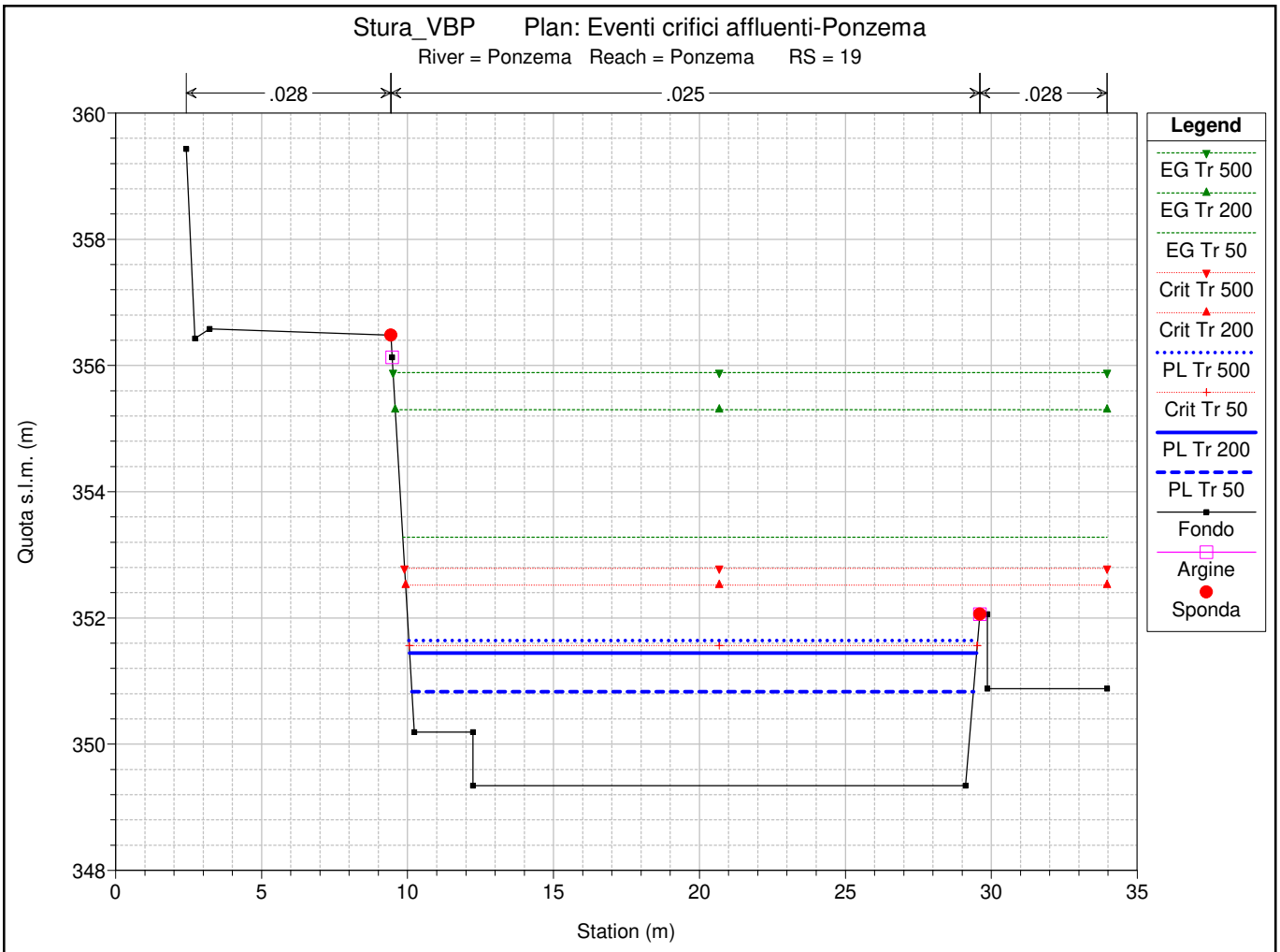


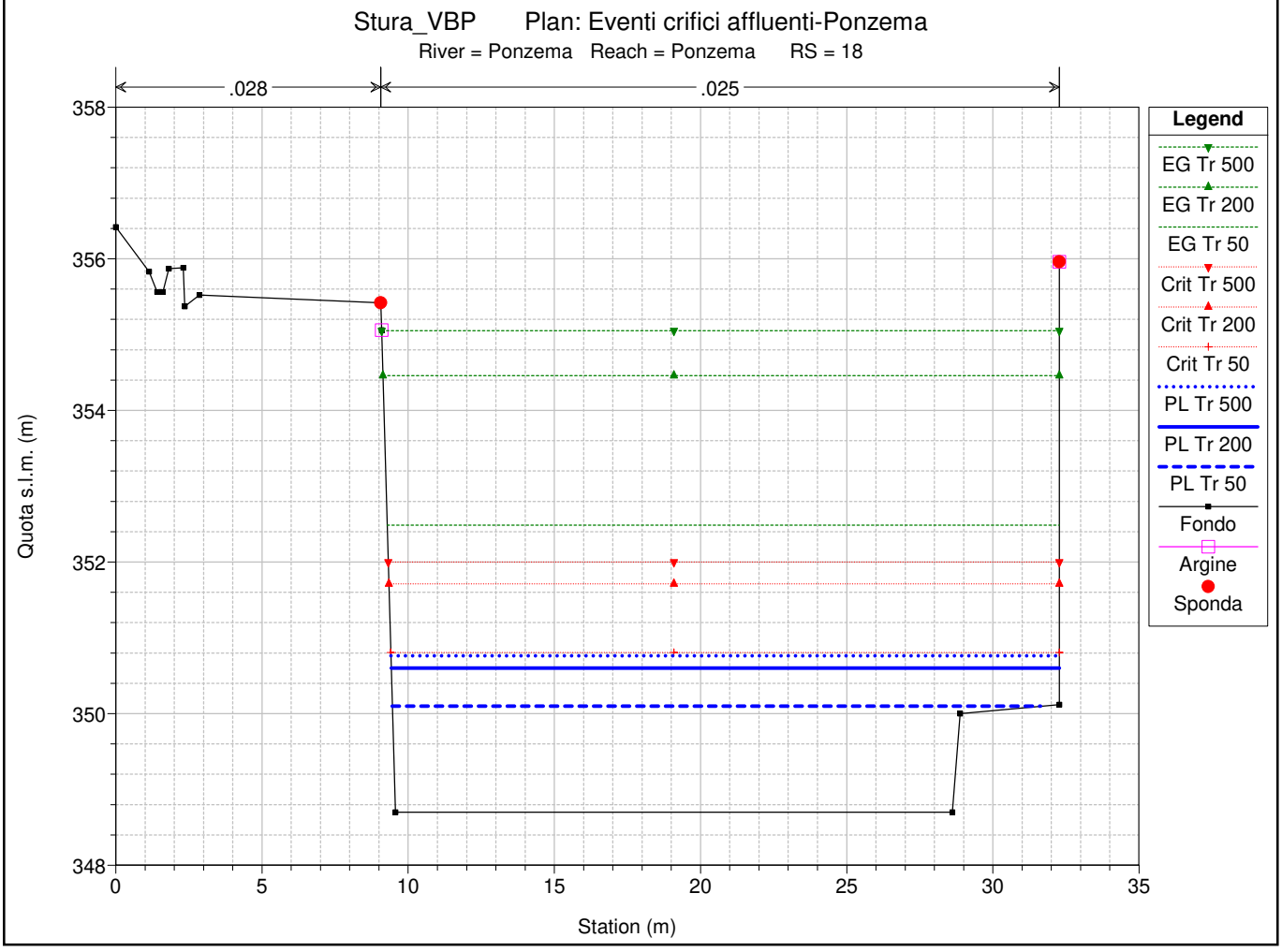

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.21
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

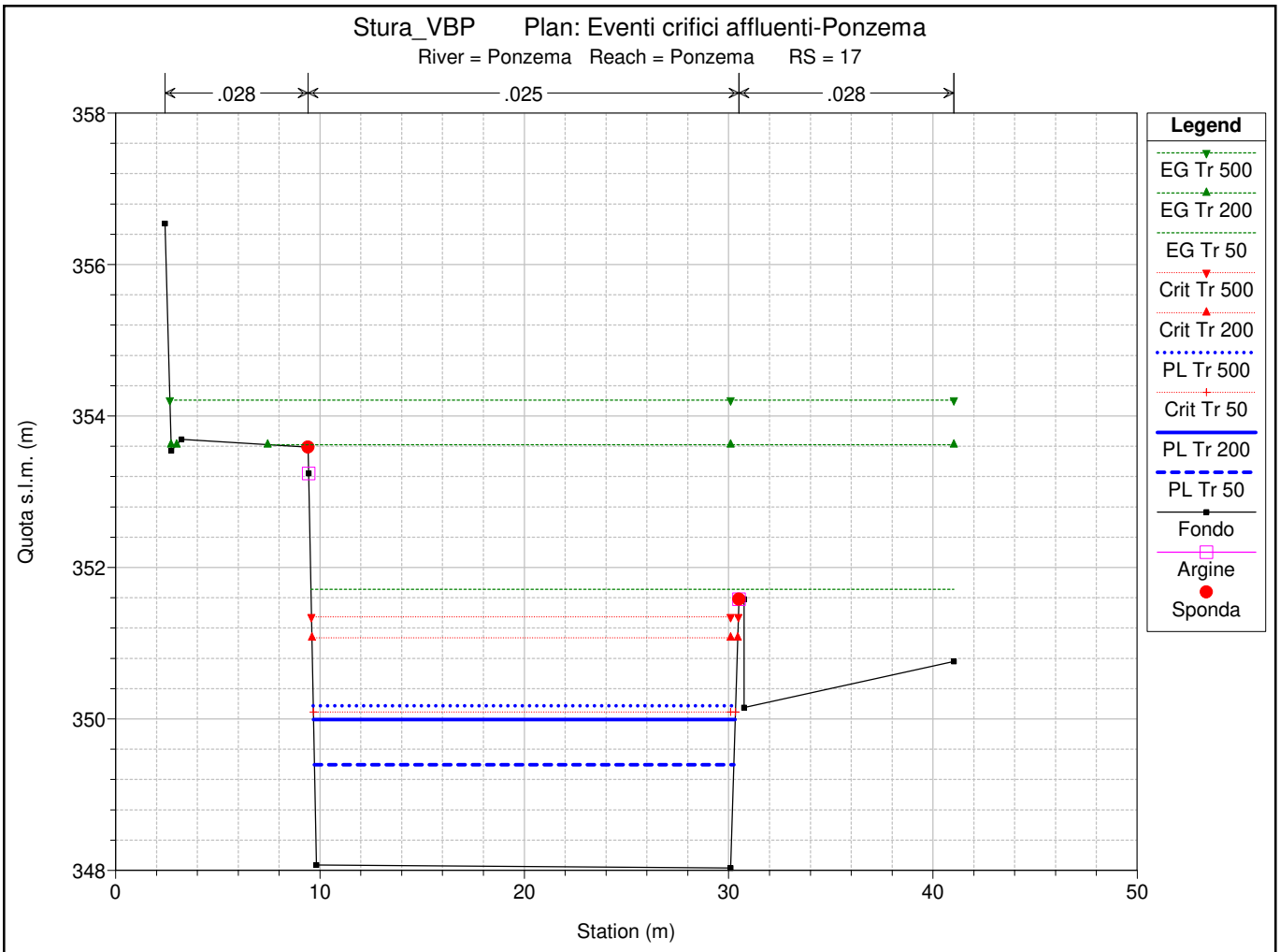

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 104.2
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

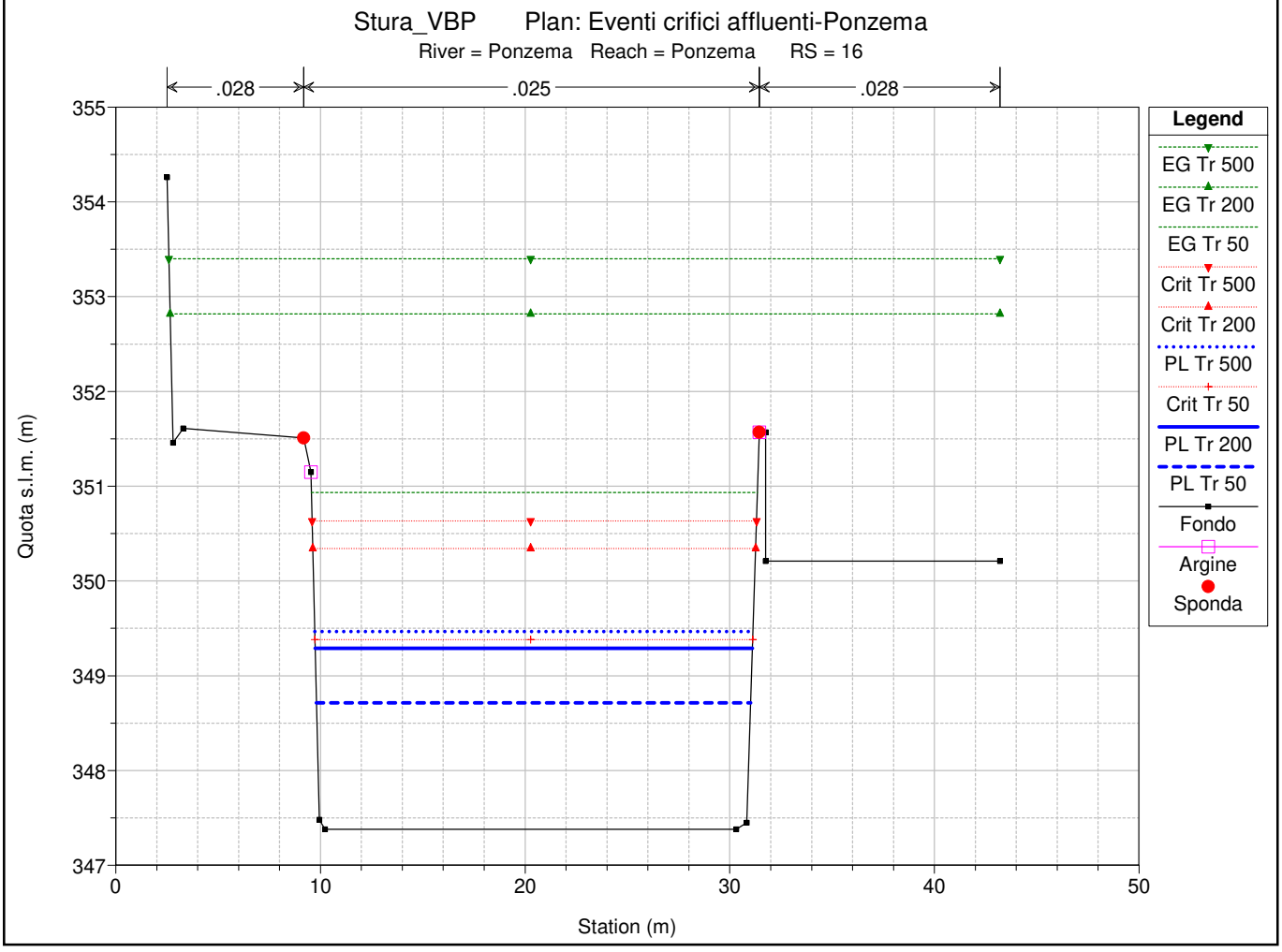

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 21
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

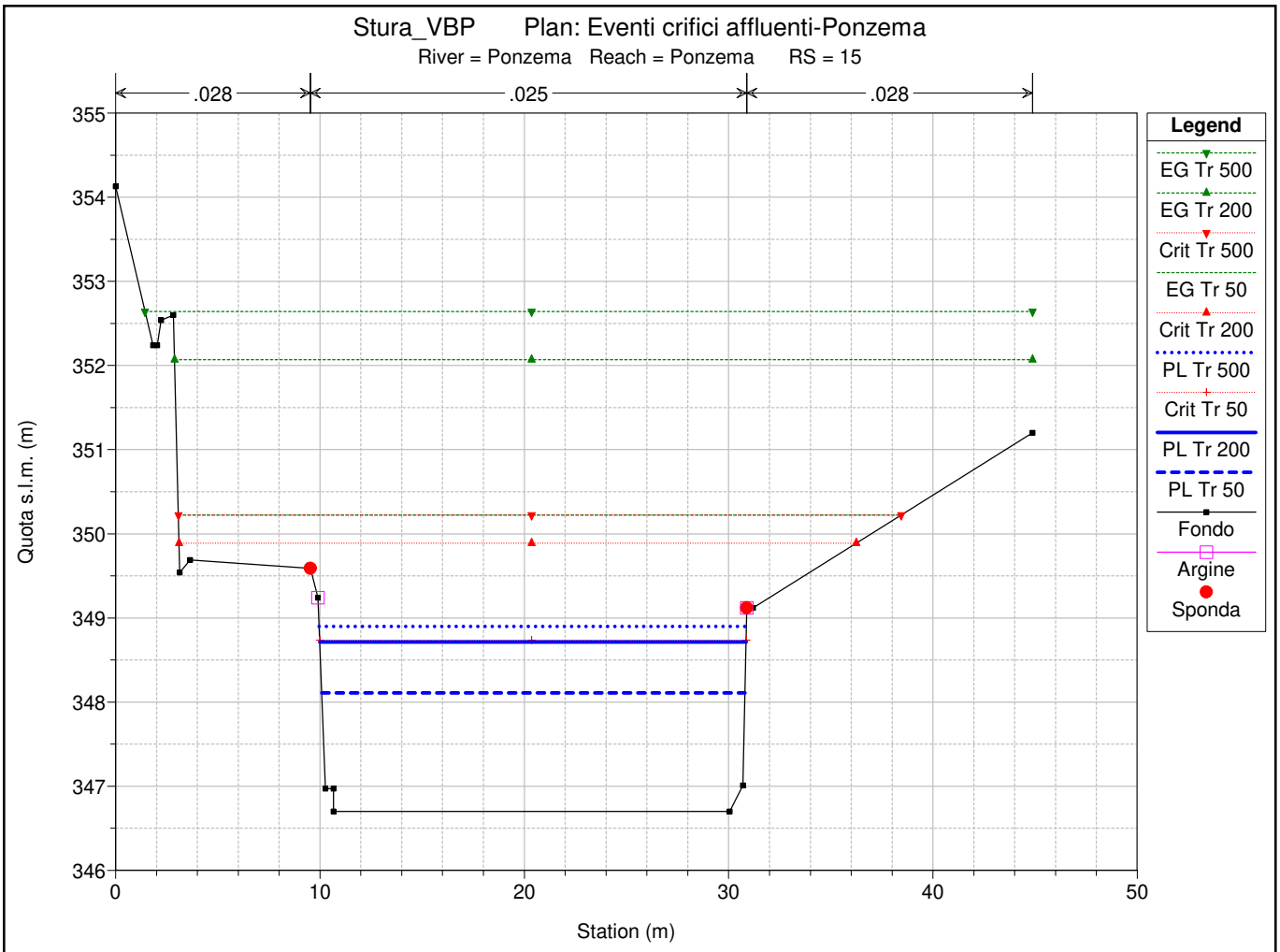

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 20
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

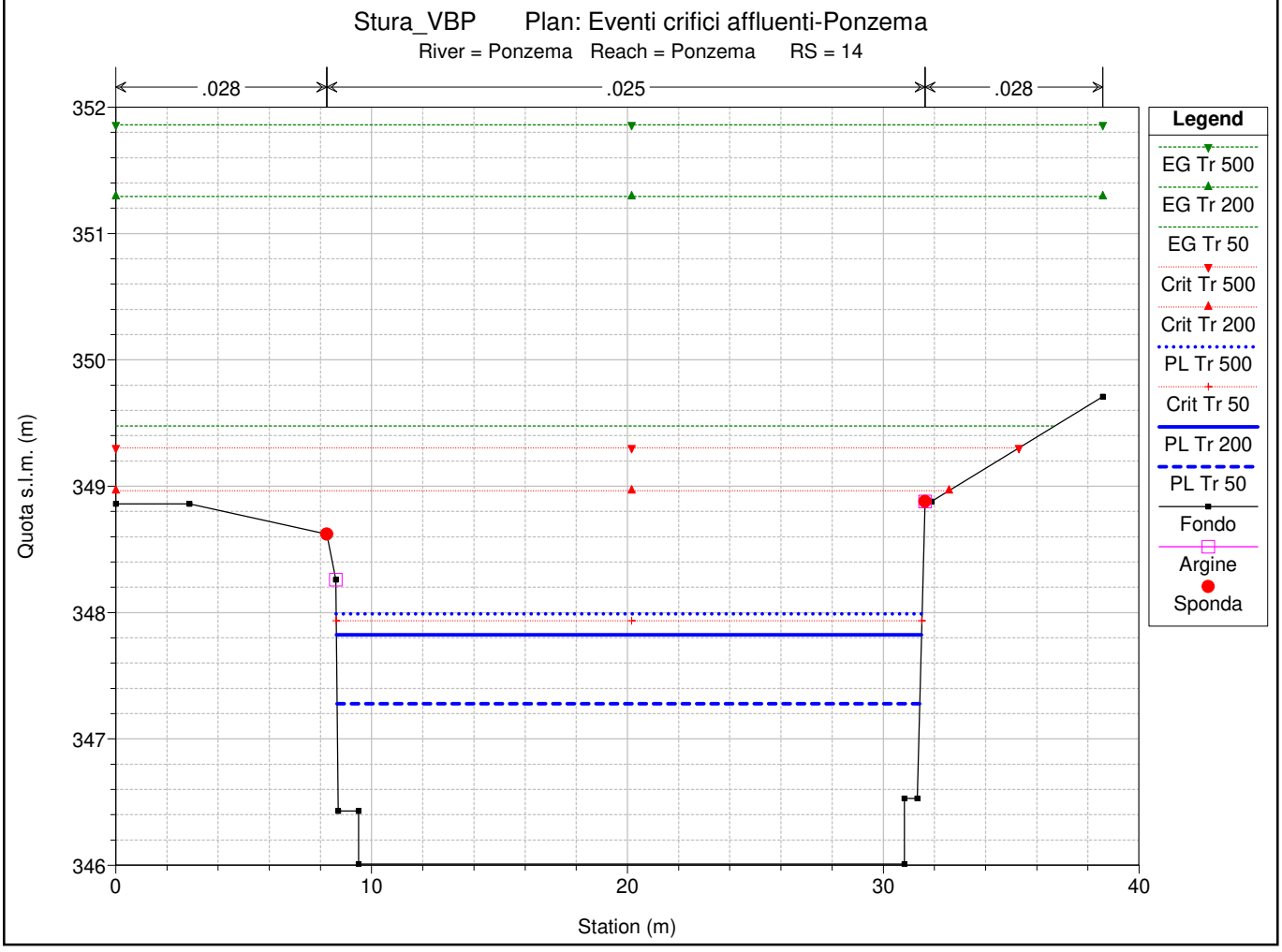

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 19
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

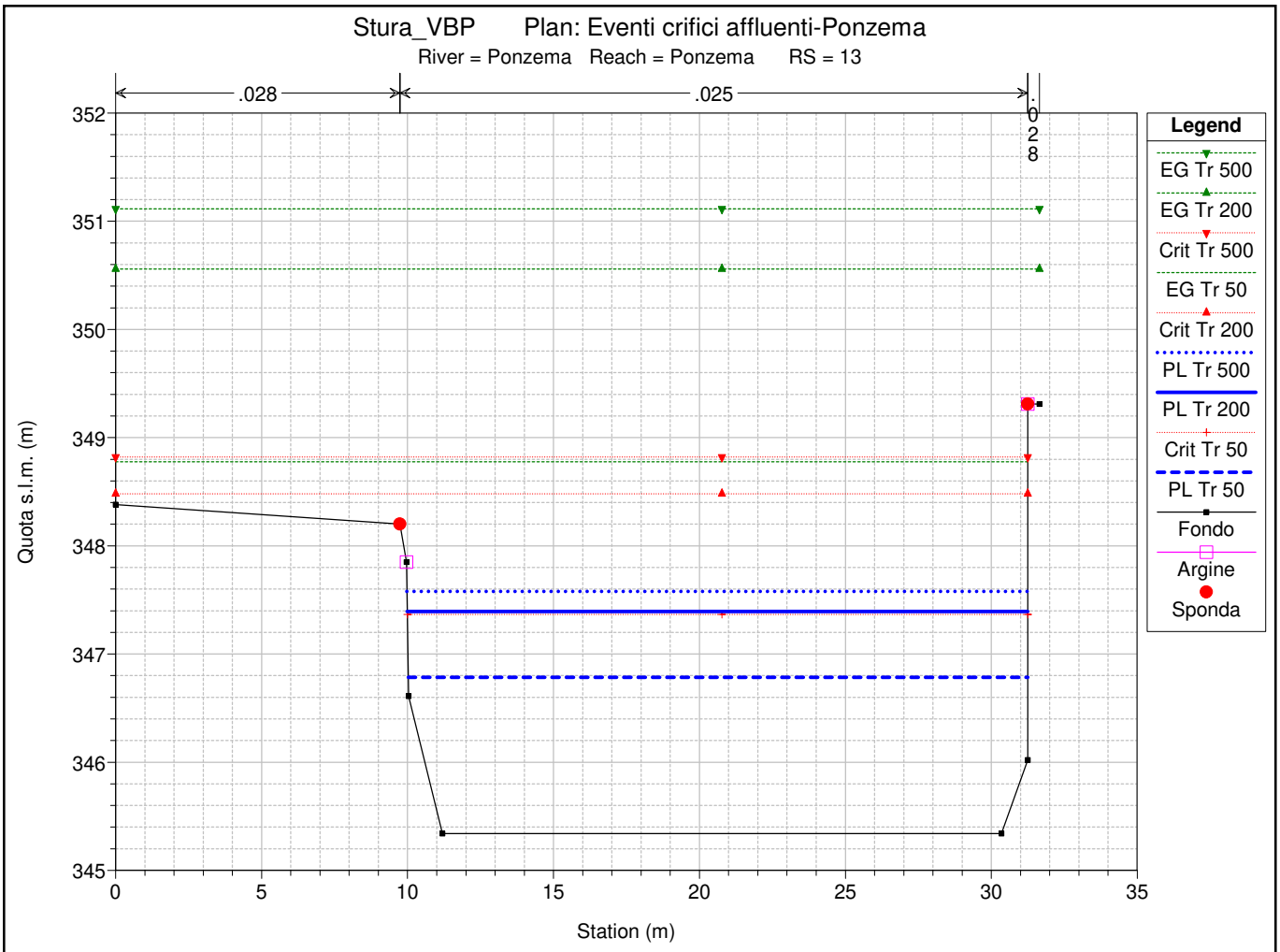

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 18
.028
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

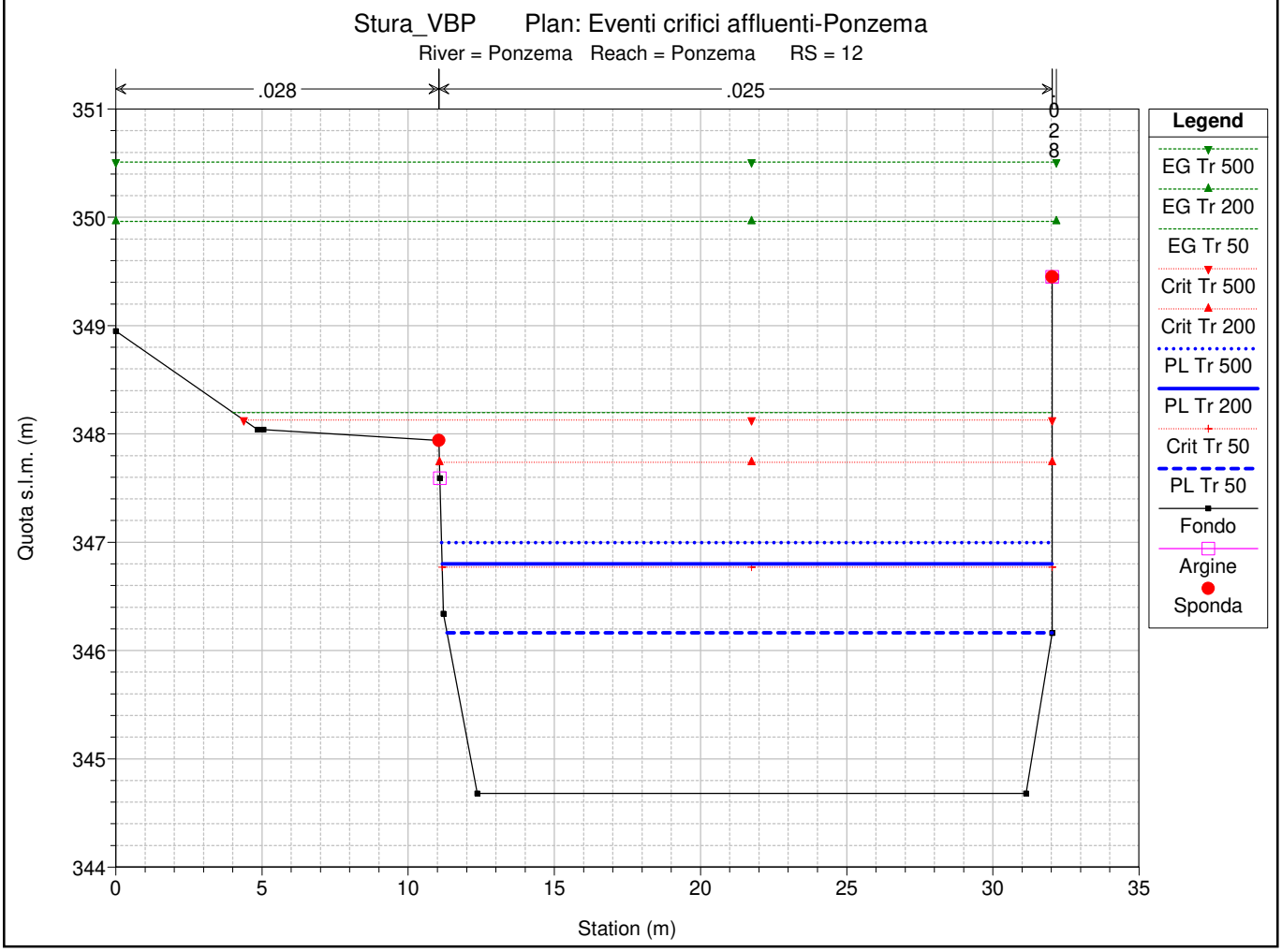

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 17
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

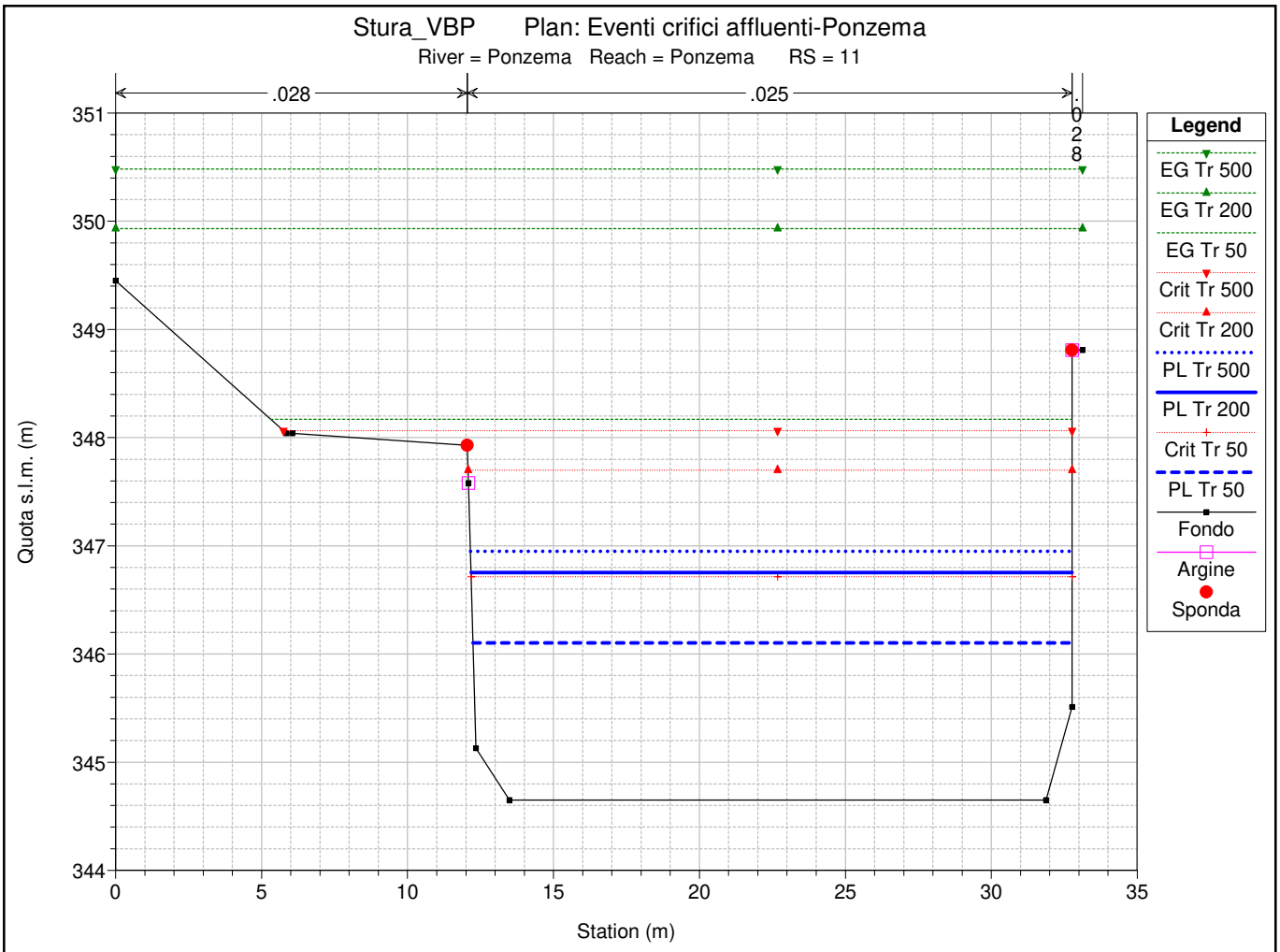

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 16
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

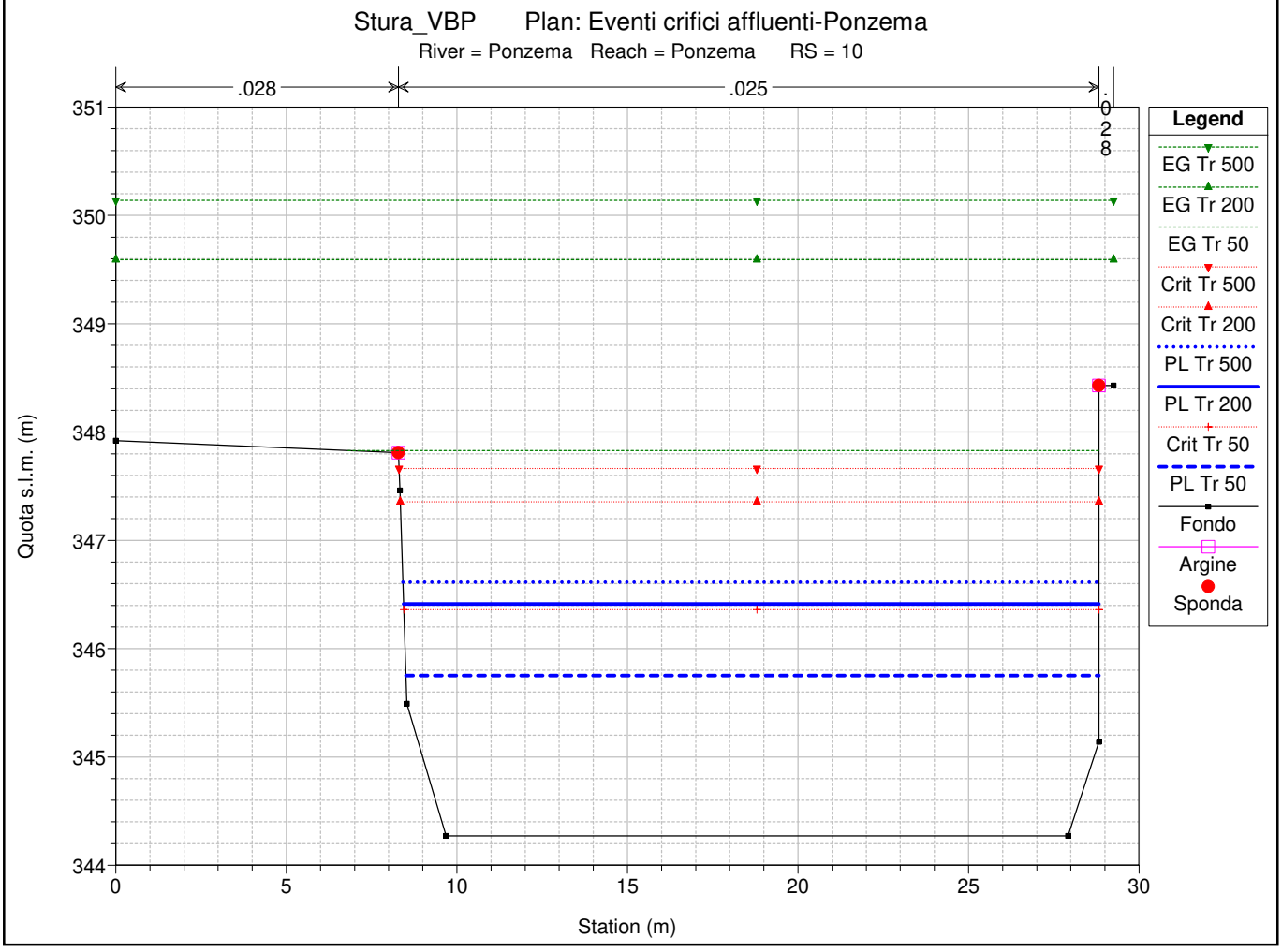

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 15
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

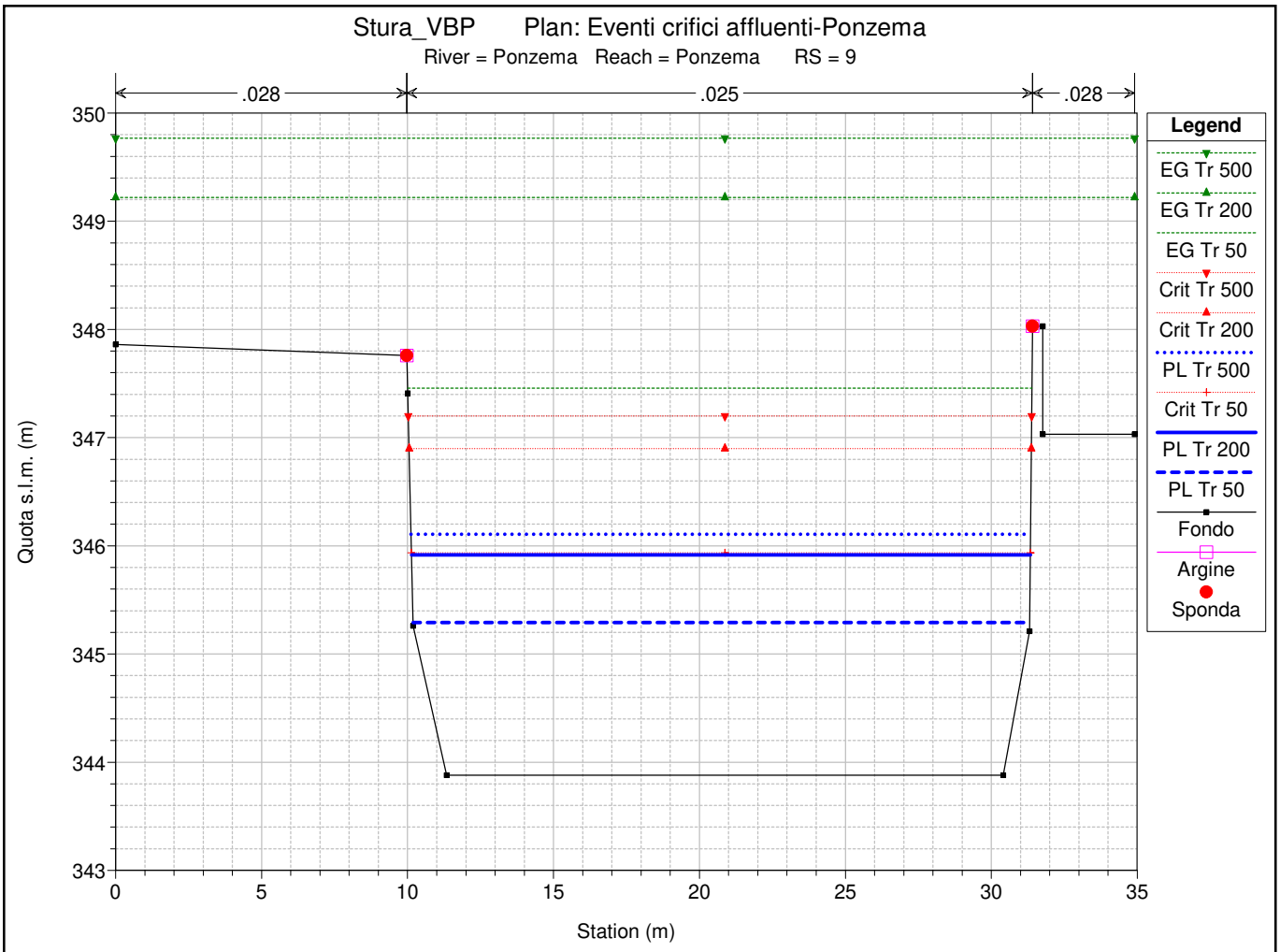

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 14
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

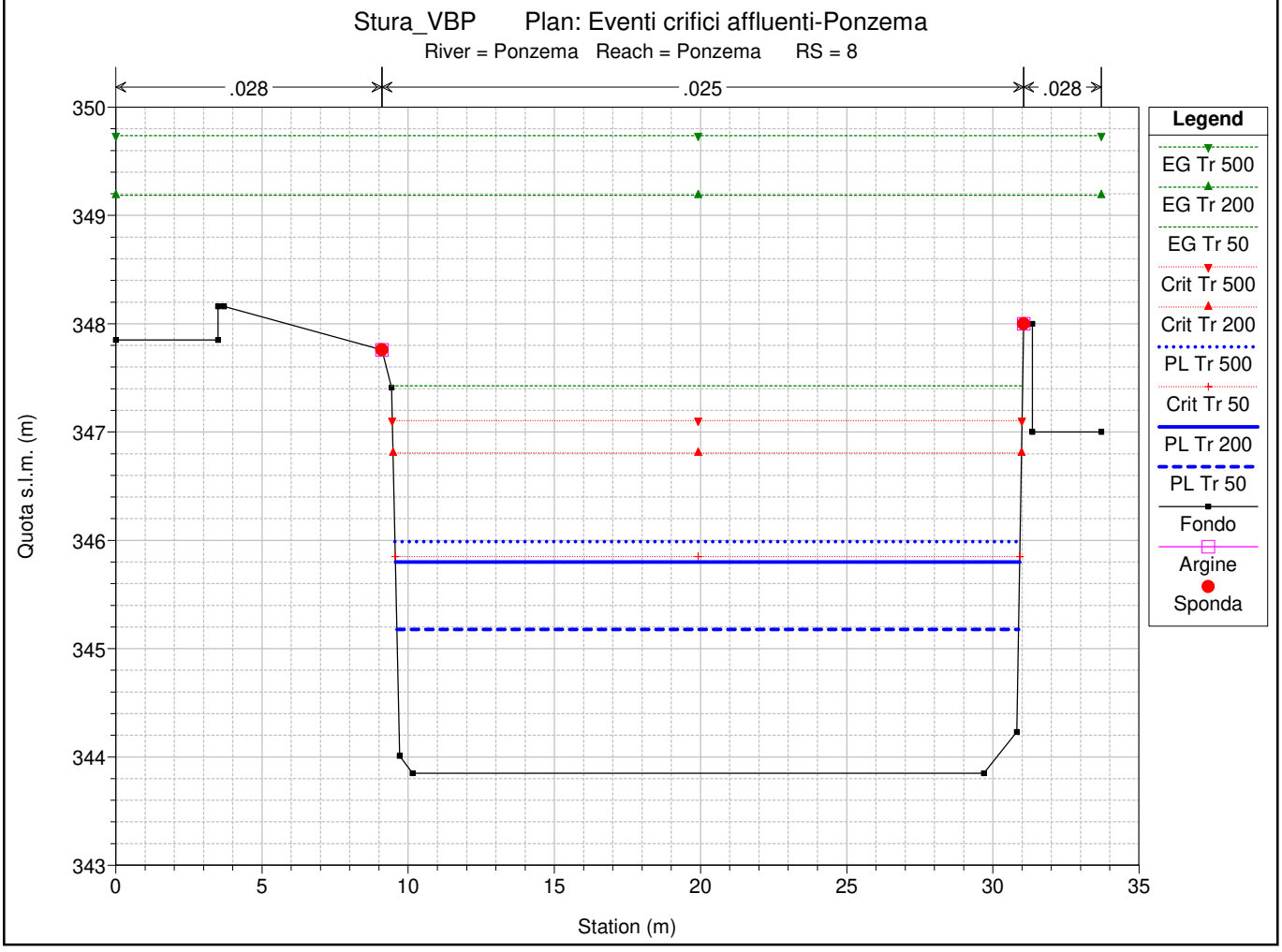

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 13
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

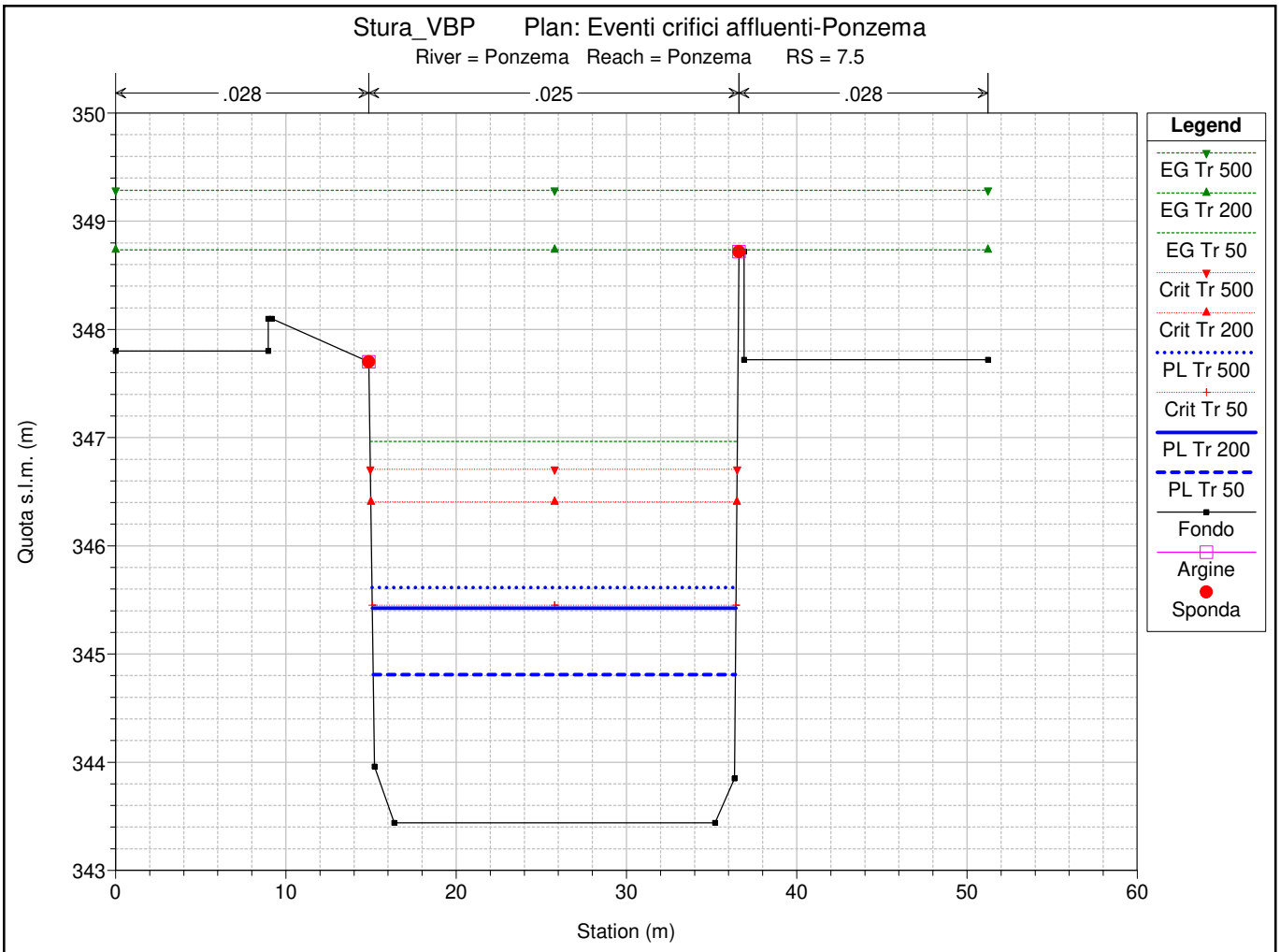

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 12
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

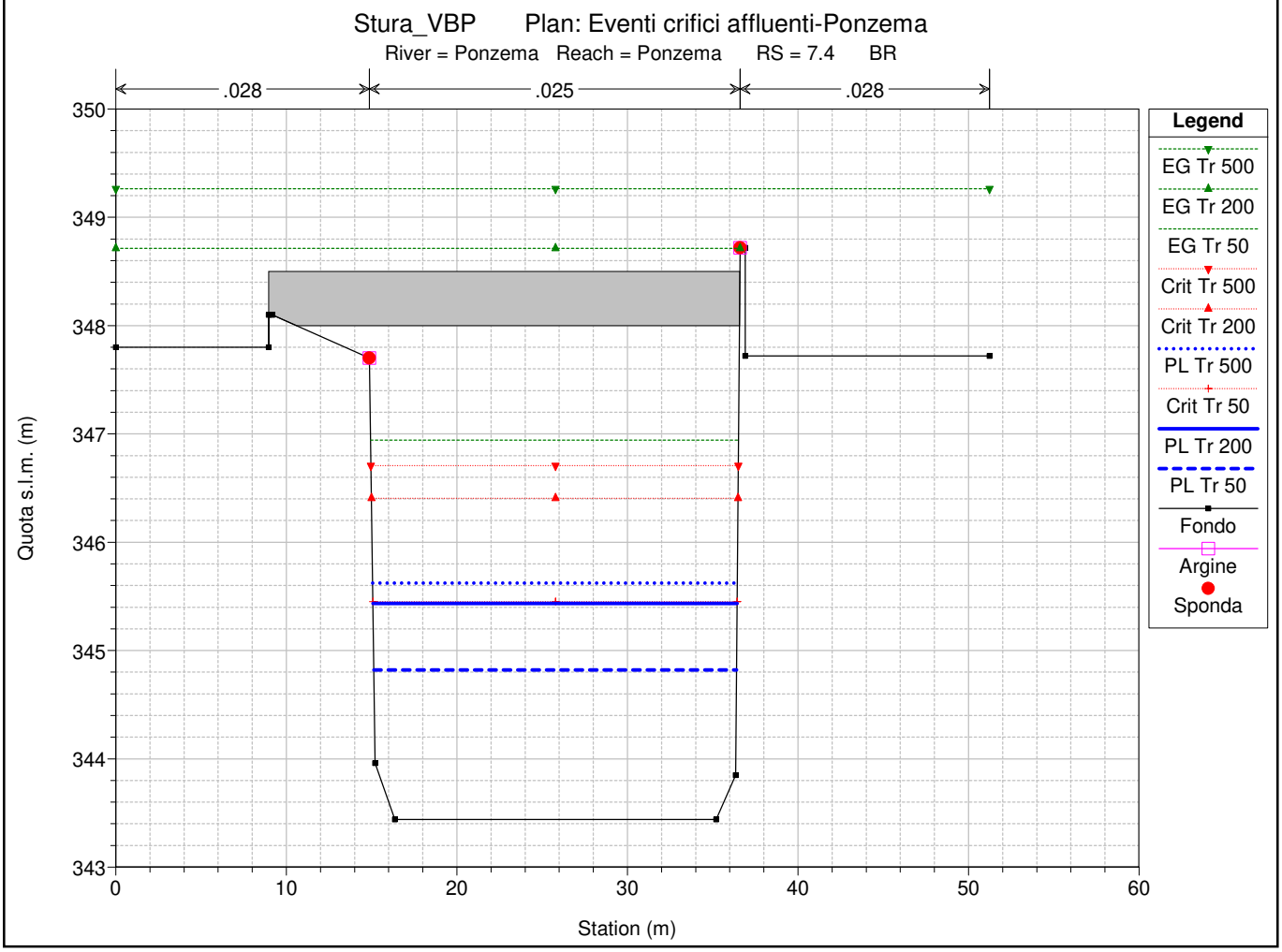

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 11
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

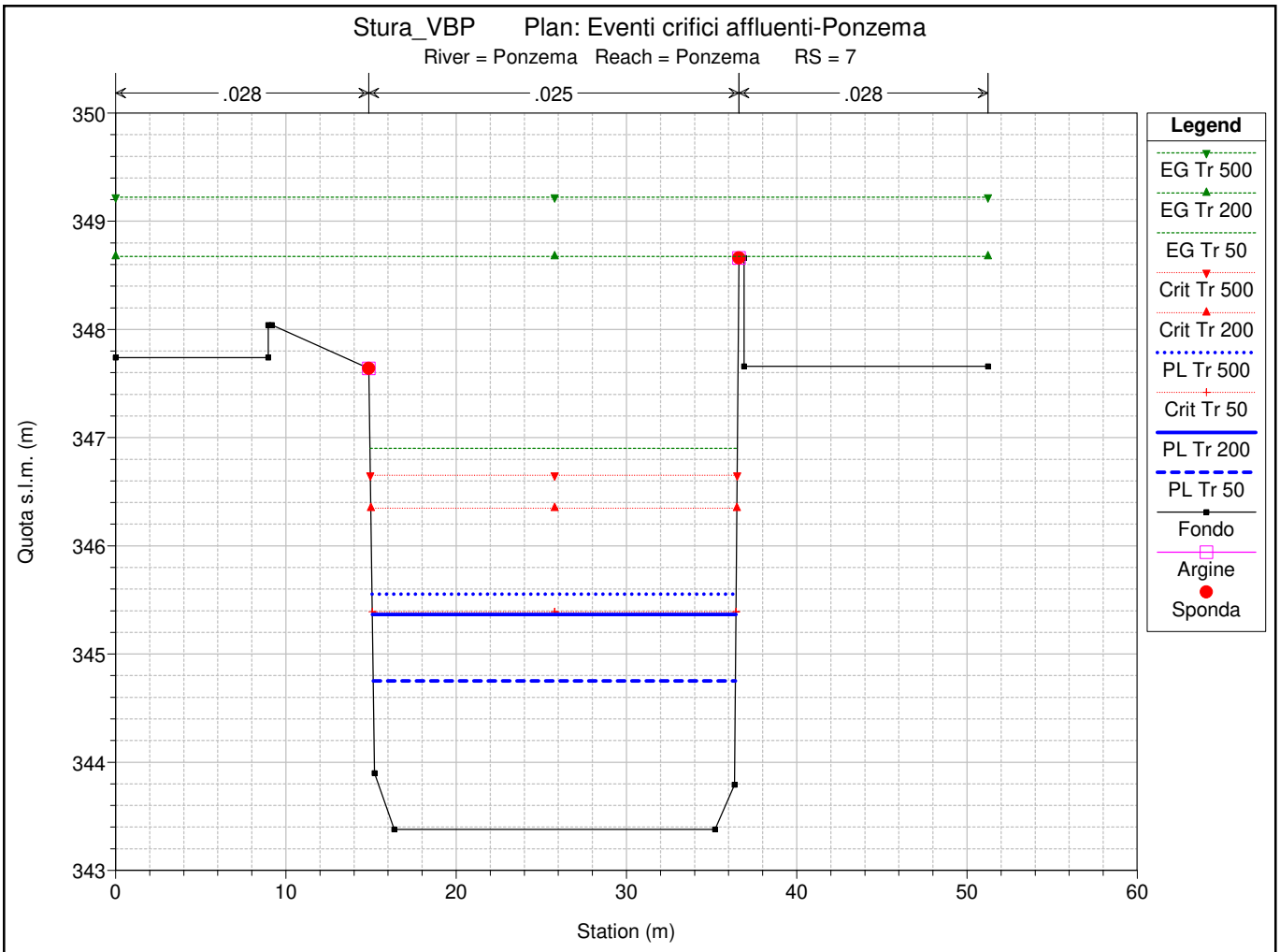

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 10
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

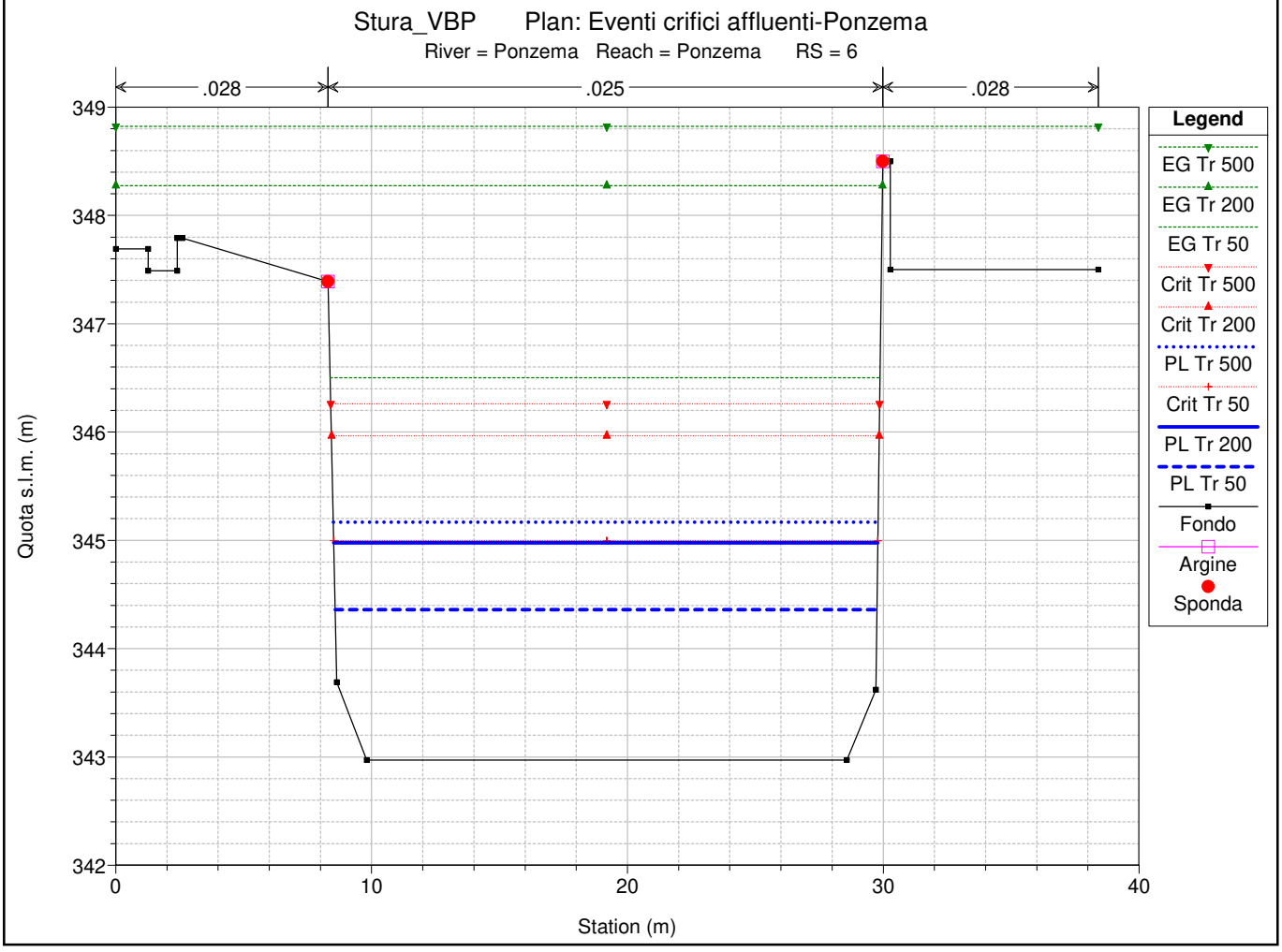

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 9
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

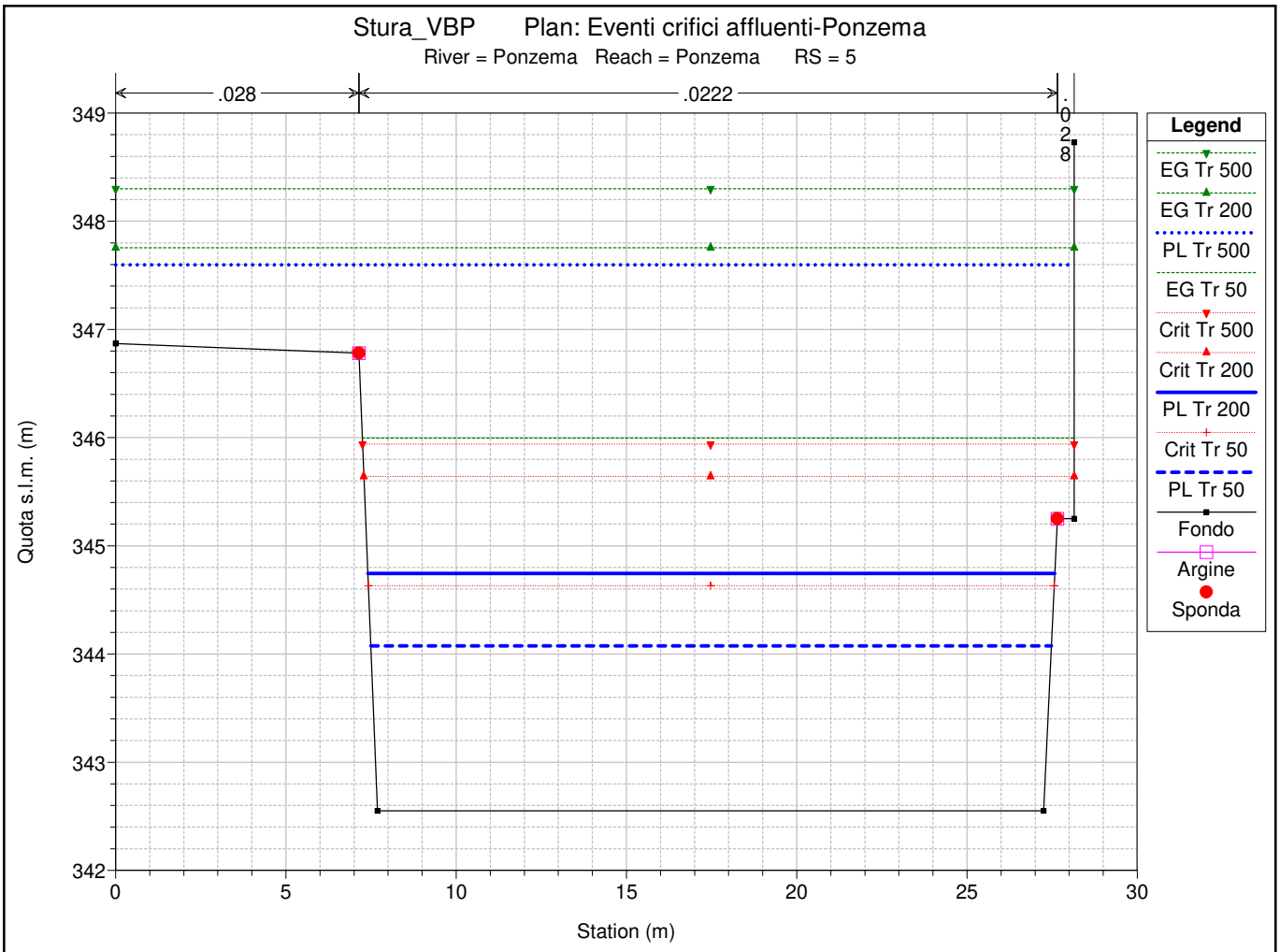

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 8
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

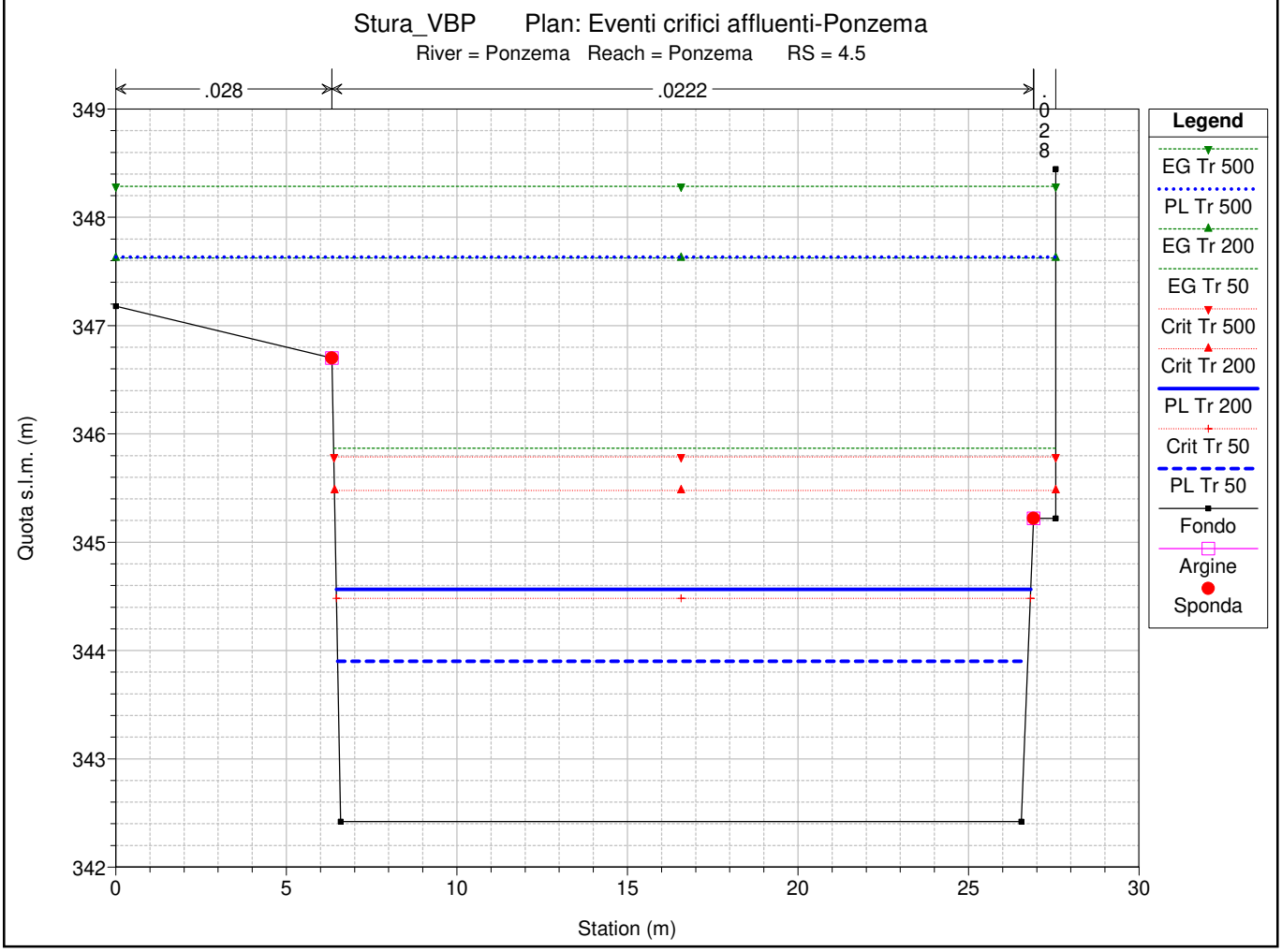

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 7.5
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda


Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 7.4 BR
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda


Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 7
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

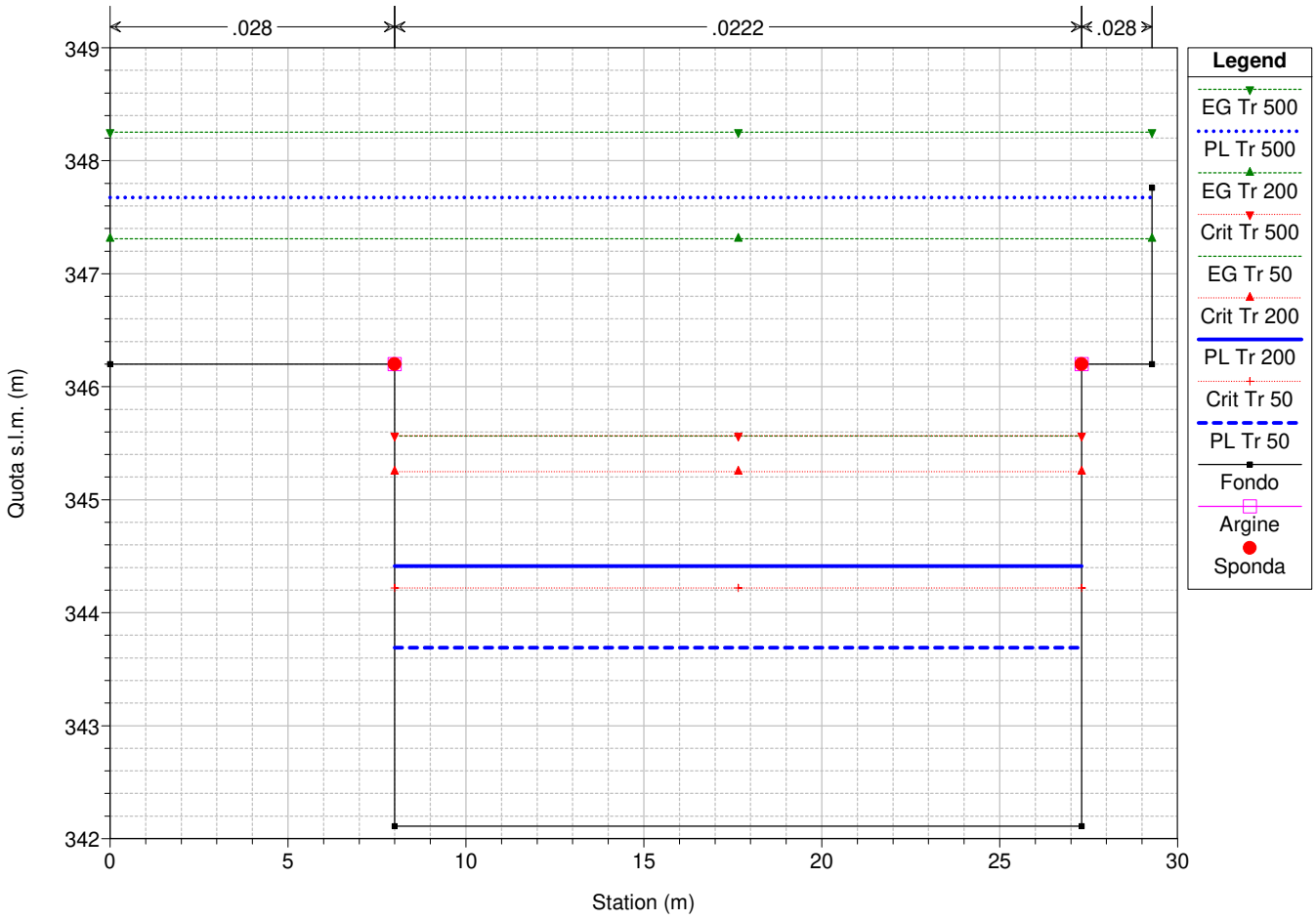

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 6
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda


Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 5
.028
.0222
.028
Legend
EG Tr 500
EG Tr 200
PL Tr 500
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda
Quota s.l.m. (m)
Station (m)
342
343
344
345
346
347
348
349
0
5
10
15
20
25
30


Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 4.5
.028
.0222
.028
Legend
EG Tr 500
PL Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda
Quota s.l.m. (m)
Station (m)
342
343
344
345
346
347
348
349
0
5
10
15
20
25
30

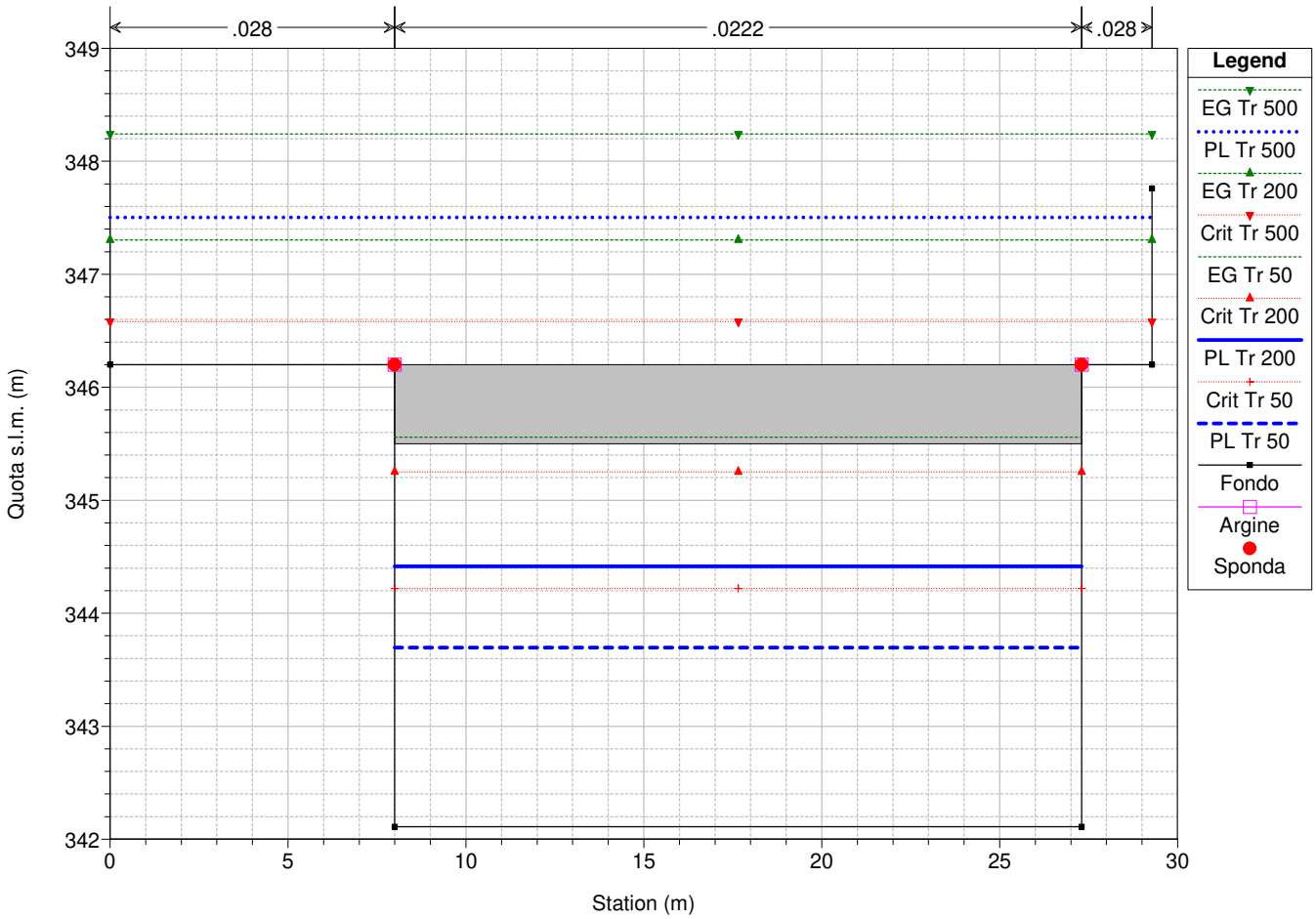
Stura_VBP Plan: Eventi crifici affluenti-Ponzema

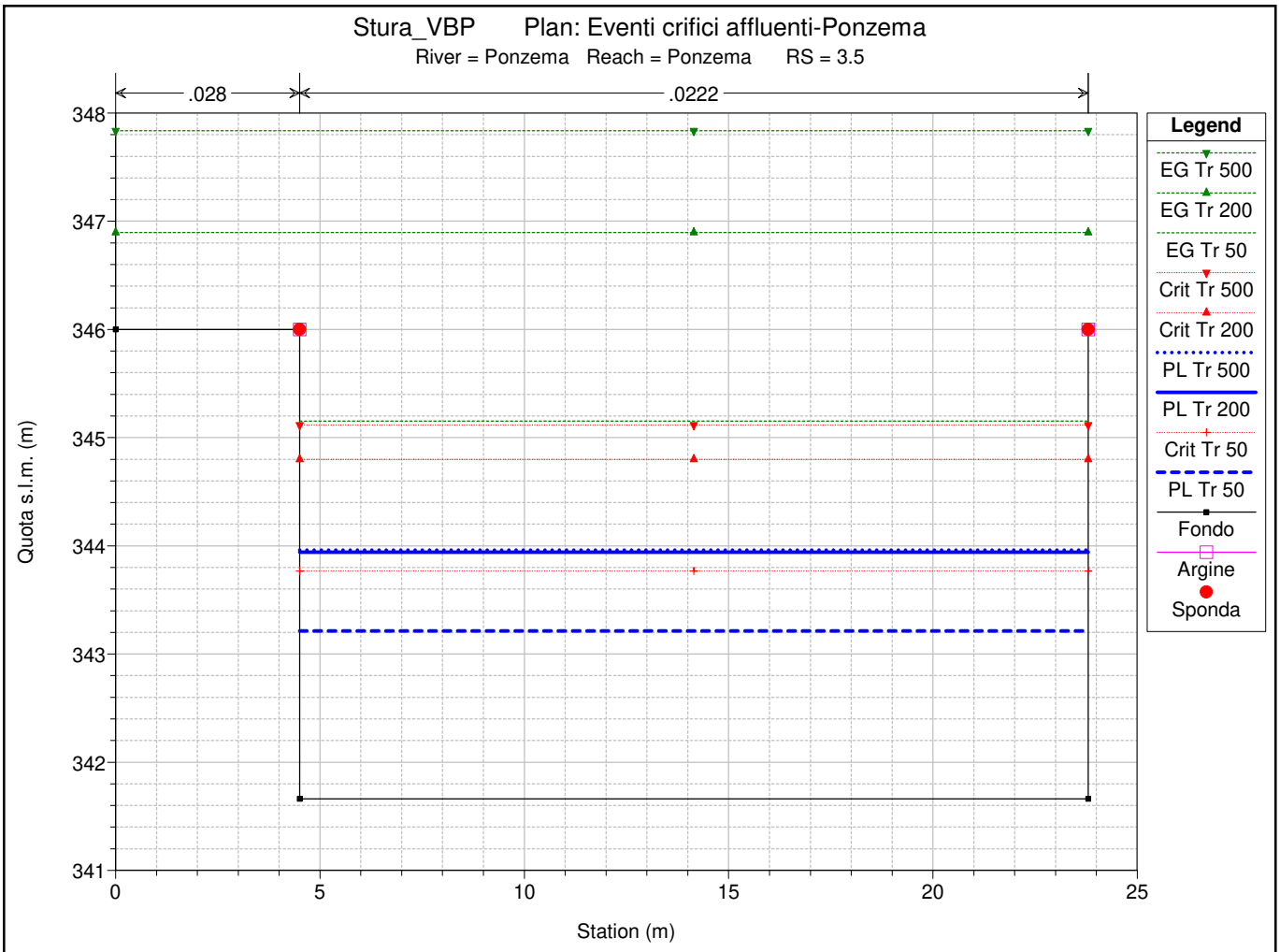
River = Ponzema Reach = Ponzema RS = 4

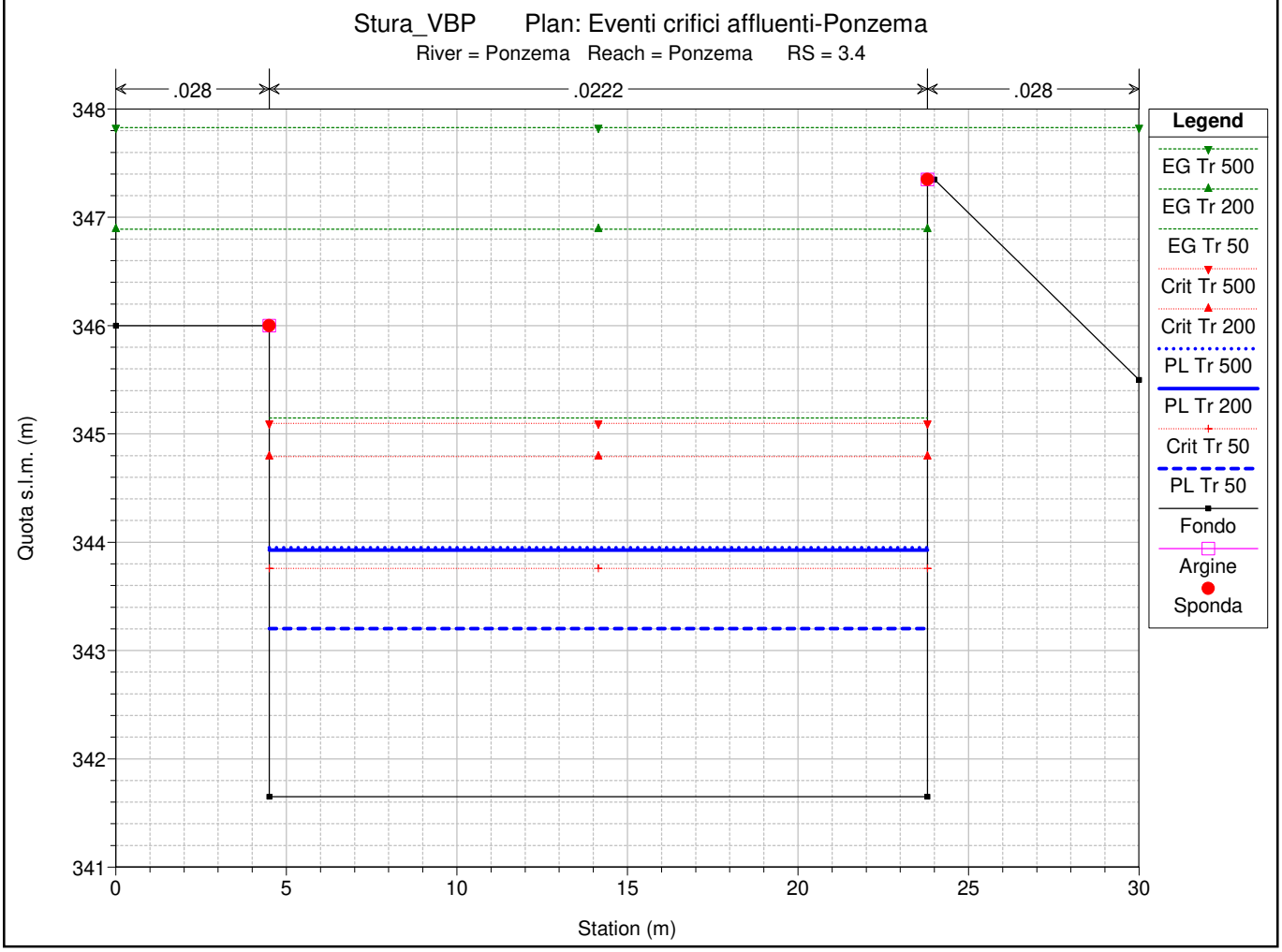


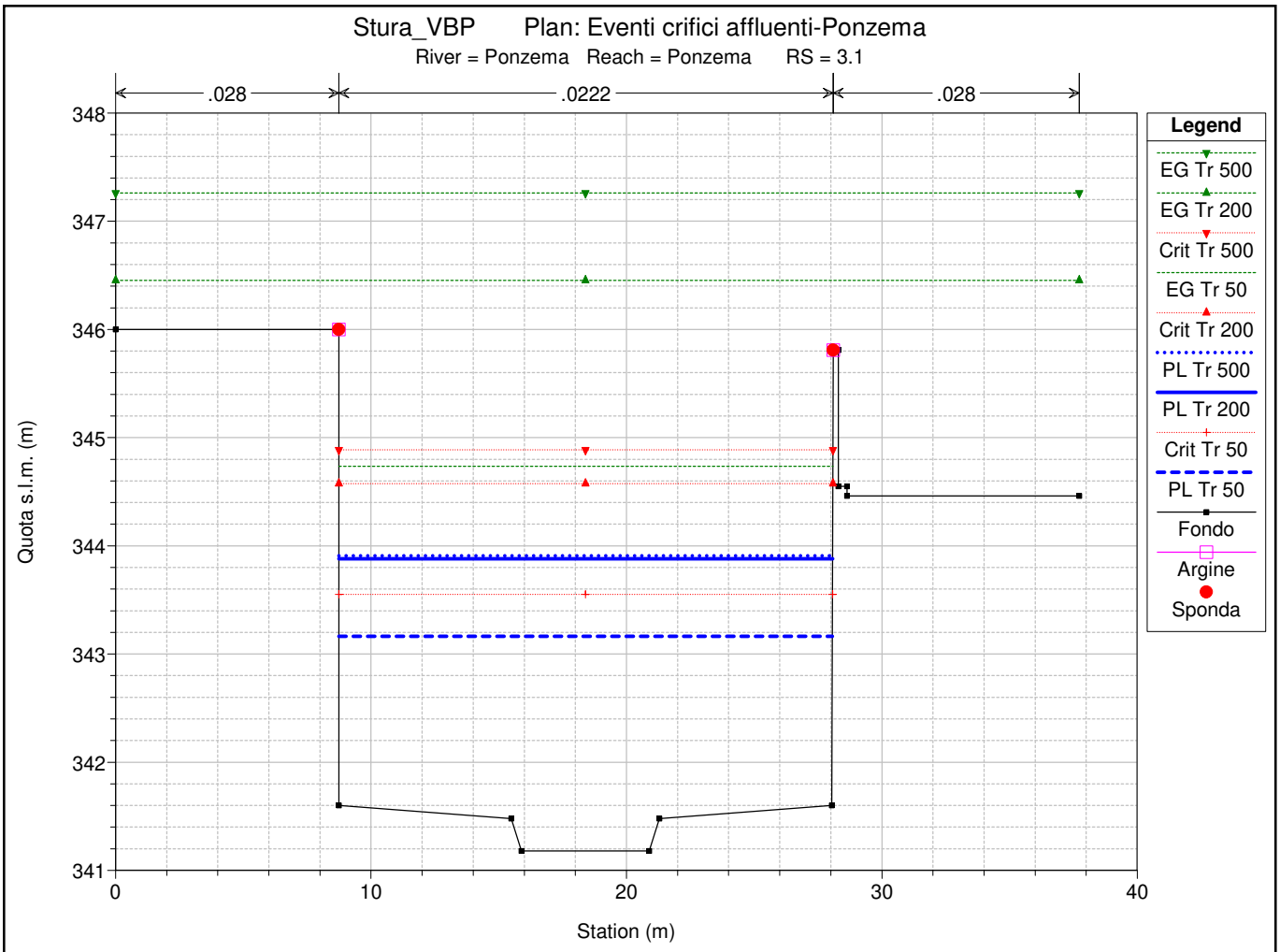
Stura_VBP Plan: Eventi crifici affluenti-Ponzema

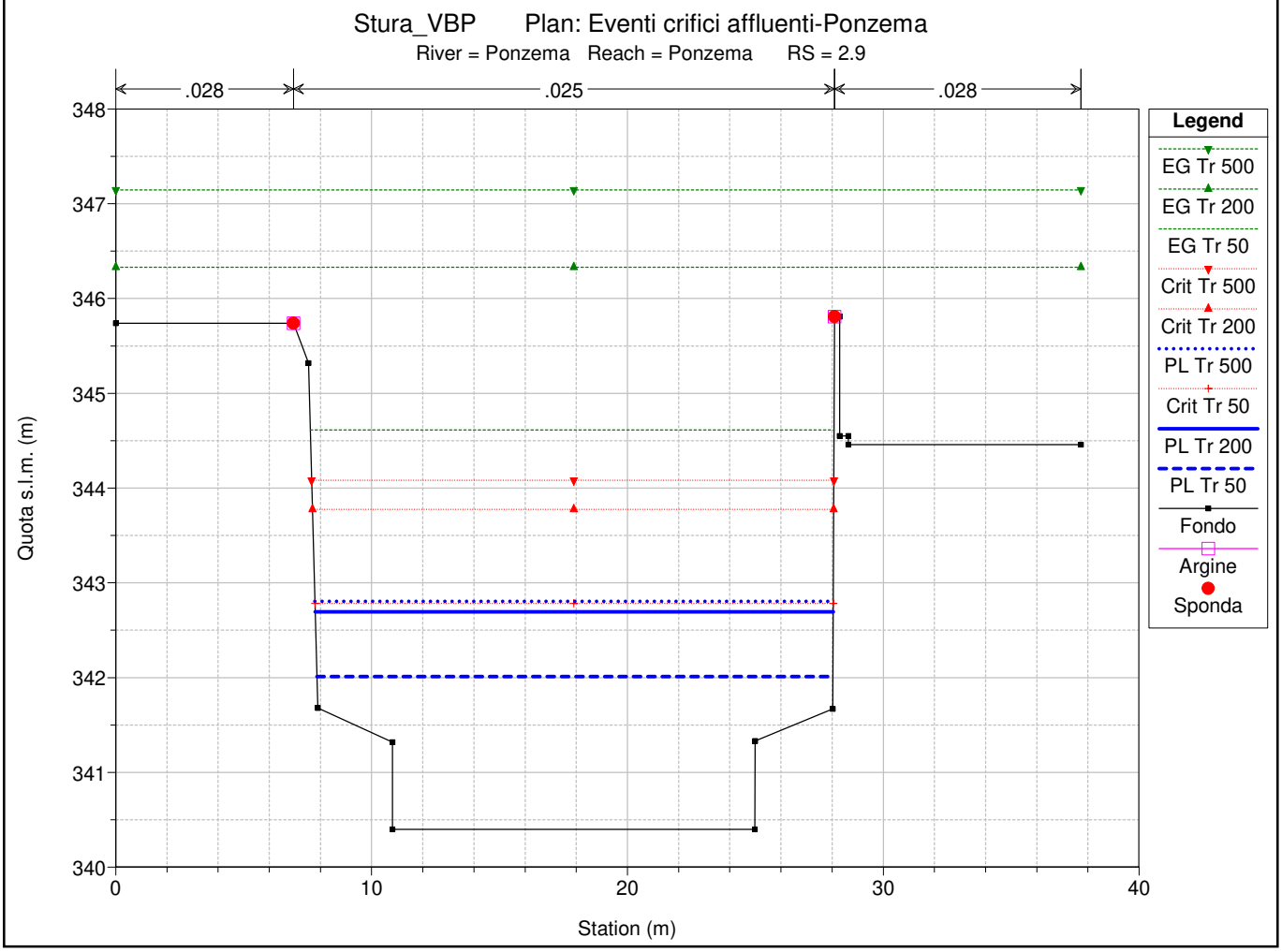
River = Ponzema Reach = Ponzema RS = 3.8 BR

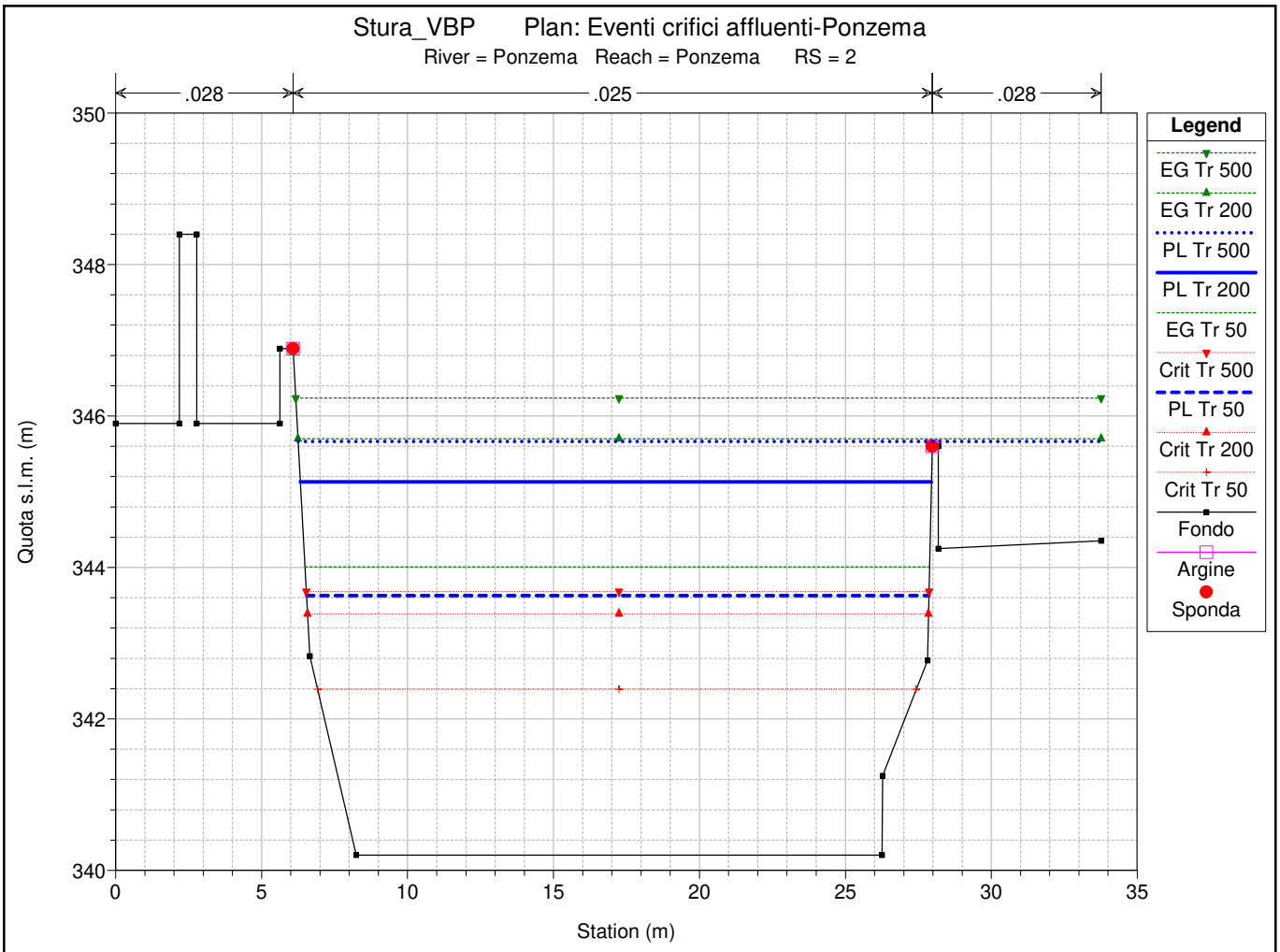


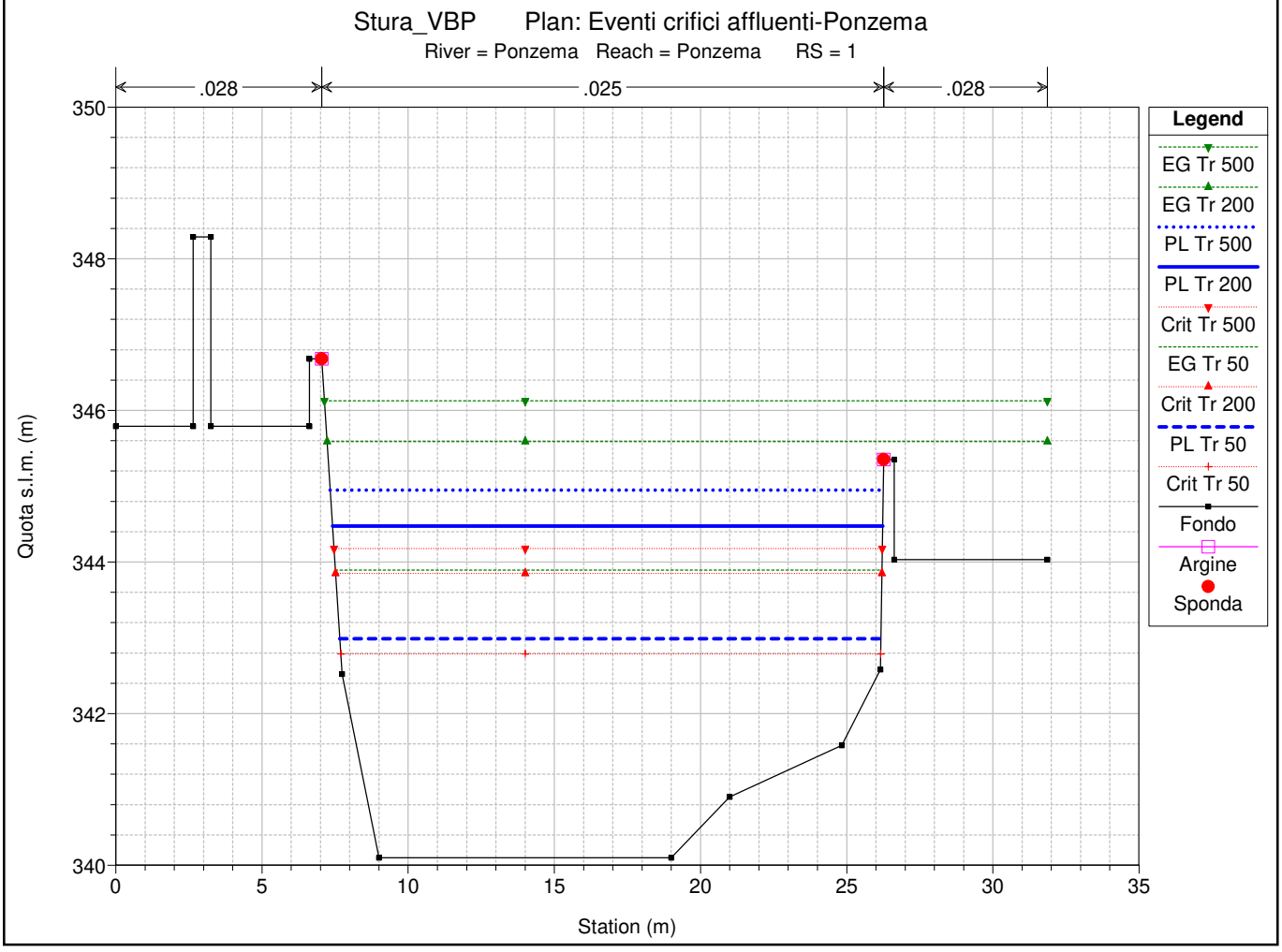

Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 3.5
.028
.0222
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda


Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 3.4
.028
.0222
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda


Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 3.1
.028
.0222
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda


Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 2.9
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda


Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 2
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Argine
Sponda


Stura_VBP Plan: Eventi crifici affluenti-Ponzema
River = Ponzema Reach = Ponzema RS = 1
.028
.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

HEC-RAS Plan: T. Ponzema River: Ponzema Reach: Ponzema

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ponzema	104.47	Tr 50	185.0	366.05	367.73	370.00	2.27	369.24	1.51	368.26	369.47	0.020013	5.83	31.71	22.21	1.56
Ponzema	104.47	Tr 200	335.0	366.05	368.41	370.00	1.59	369.24	0.83	369.20	370.95	0.020000	7.06	47.47	24.75	1.63
Ponzema	104.47	Tr 500	387.0	366.05	368.60	370.00	1.40	369.24	0.64	369.47	371.38	0.020000	7.38	52.43	25.50	1.64
Ponzema	104.46	Tr 50	185.0	365.59	367.26	366.19	-1.07	367.63	0.37	367.63	368.57	0.014873	5.16	37.33	29.49	1.37
Ponzema	104.46	Tr 200	335.0	365.59	367.72	366.19	-1.53	367.63	-0.09	368.40	369.99	0.018852	6.82	51.42	31.13	1.60
Ponzema	104.46	Tr 500	387.0	365.59	367.86	366.19	-1.67	367.63	-0.23	368.64	370.43	0.019549	7.27	55.84	31.39	1.64
Ponzema	104.45	Tr 50	185.0	364.02	365.88	366.33	0.45	367.88	2.00	366.46	367.64	0.024339	5.88	31.47	24.68	1.66
Ponzema	104.45	Tr 200	335.0	364.02	366.50	366.33	-0.17	367.88	1.38	367.30	368.99	0.022329	7.02	48.61	31.68	1.67
Ponzema	104.45	Tr 500	387.0	364.02	366.66	366.33	-0.33	367.88	1.22	367.52	369.42	0.022366	7.40	53.72	32.78	1.70
Ponzema	104.44	Tr 50	185.0	363.15	365.50	366.40	0.90	366.83	1.33	365.80	366.67	0.013356	4.79	38.62	26.29	1.26
Ponzema	104.44	Tr 200	335.0	363.15	366.07	366.40	0.33	366.83	0.76	366.61	367.93	0.017091	6.04	55.42	32.10	1.47
Ponzema	104.44	Tr 500	387.0	363.15	366.22	366.40	0.18	366.83	0.61	366.83	368.32	0.018055	6.42	60.28	33.22	1.52
Ponzema	104.43	Tr 50	185.0	363.02	363.97	366.85	2.88	367.20	3.23	364.55	365.89	0.039722	6.13	30.18	33.47	2.06
Ponzema	104.43	Tr 200	335.0	363.02	364.45	366.85	2.40	367.20	2.75	365.25	367.09	0.033122	7.19	46.58	35.22	2.00
Ponzema	104.43	Tr 500	387.0	363.02	364.59	366.85	2.26	367.20	2.61	365.46	367.46	0.032152	7.50	51.58	35.73	1.99
Ponzema	104.42	Tr 50	185.0	362.25	364.82	363.40	-1.42	364.25	-0.57	363.68	365.00	0.001024	1.88	100.22	45.14	0.39
Ponzema	104.42	Tr 200	335.0	362.25	365.96	363.40	-2.56	364.25	-1.71	364.33	366.21	0.000881	2.26	155.12	50.74	0.38
Ponzema	104.42	Tr 500	387.0	362.25	366.31	363.40	-2.91	364.25	-2.06	364.53	366.58	0.000851	2.36	172.84	52.36	0.38
Ponzema	104.41	Tr 50	185.0	362.19	364.72	363.50	-1.22	369.00	4.28	363.65	364.95	0.001335	2.13	87.68	36.86	0.43
Ponzema	104.41	Tr 200	335.0	362.19	365.82	363.50	-2.32	369.00	3.18	364.36	366.17	0.001313	2.63	129.44	39.44	0.45
Ponzema	104.41	Tr 500	387.0	362.19	366.14	363.50	-2.64	369.00	2.86	364.58	366.53	0.001331	2.78	142.53	44.48	0.46
Ponzema	104.4	Tr 50	185.0	362.17	363.96	364.40	0.44	363.25	-0.71	363.96	364.80	0.007836	4.06	45.56	27.21	1.00
Ponzema	104.4	Tr 200	335.0	362.17	364.82	364.40	-0.42	363.25	-1.57	364.82	366.01	0.006495	4.82	70.42	30.84	0.97
Ponzema	104.4	Tr 500	387.0	362.17	365.08	364.40	-0.68	363.25	-1.83	365.08	366.36	0.006239	5.04	78.29	31.24	0.97
Ponzema	104.39	Tr 50	185.0	361.53	363.31	362.64	-0.67	362.67	-0.64	363.67	364.72	0.013275	5.28	35.67	23.71	1.31
Ponzema	104.39	Tr 200	335.0	361.53	364.36	362.64	-1.72	362.67	-1.69	364.54	365.95	0.007963	5.67	62.10	26.64	1.10
Ponzema	104.39	Tr 500	387.0	361.53	364.78	362.64	-2.14	362.67	-2.11	364.96	366.32	0.006423	5.61	74.09	30.08	1.01
Ponzema	104.38	Tr 50	185.0	361.10	362.80	362.02	-0.78	362.15	-0.65	363.14	364.24	0.013992	5.34	35.30	23.19	1.34
Ponzema	104.38	Tr 200	335.0	361.10	363.67	362.02	-1.65	362.15	-1.52	364.10	365.59	0.010683	6.21	55.83	24.11	1.26
Ponzema	104.38	Tr 500	387.0	361.10	363.96	362.02	-1.94	362.15	-1.81	364.38	365.99	0.009743	6.38	62.99	24.42	1.22
Ponzema	104.37	Tr 50	185.0	360.35	361.93	360.82	-1.11	362.10	0.17	362.43	363.64	0.018421	5.81	32.15	21.74	1.50
Ponzema	104.37	Tr 200	335.0	360.35	362.70	360.82	-1.87	362.10	-0.60	363.37	365.09	0.015294	6.91	49.87	24.49	1.46
Ponzema	104.37	Tr 500	387.0	360.35	362.93	360.82	-2.11	362.10	-0.83	363.66	365.52	0.014524	7.19	55.67	24.75	1.45
Ponzema	104.36	Tr 50	185.0	359.71	361.32	365.18	3.86	359.71	-1.61	361.80	363.00	0.017521	5.79	32.59	21.63	1.48
Ponzema	104.36	Tr 200	335.0	359.71	362.05	365.18	3.13	359.71	-2.34	362.77	364.53	0.016430	7.05	48.81	22.89	1.50
Ponzema	104.36	Tr 500	387.0	359.71	362.28	365.18	2.90	359.71	-2.57	363.07	364.97	0.015906	7.35	54.22	23.30	1.50

HEC-RAS Plan: T. Ponzema River: Ponzema Reach: Ponzema (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ponzema	104.35	Tr 50	185.0	359.02	360.91	361.37	0.46	362.06	1.15	361.24	362.27	0.013414	5.17	35.82	21.78	1.29
Ponzema	104.35	Tr 200	335.0	359.02	361.57	361.37	-0.20	362.06	0.49	362.21	363.79	0.015493	6.59	50.85	24.01	1.44
Ponzema	104.35	Tr 500	387.0	359.02	361.76	361.37	-0.39	362.06	0.30	362.49	364.25	0.015947	6.99	55.47	24.81	1.47
Ponzema	104.34	Tr 50	185.0	358.52	360.33	358.52	-1.81	359.80	-0.53	360.65	361.74	0.012137	5.28	35.49	20.73	1.27
Ponzema	104.34	Tr 200	335.0	358.52	362.10	358.52	-3.58	359.80	-2.30	361.65	363.21	0.003830	4.70	74.13	22.98	0.80
Ponzema	104.34	Tr 500	387.0	358.52	362.46	358.52	-3.94	359.80	-2.66	361.96	363.67	0.003696	4.93	82.81	25.89	0.80
Ponzema	104.33	Tr 50	185.0	358.12	361.00	358.95	-2.05	359.75	-1.25	360.26	361.52	0.002543	3.23	58.42	22.63	0.62
Ponzema	104.33	Tr 200	335.0	358.12	362.30	358.95	-3.35	359.75	-2.55	361.25	363.05	0.002203	3.89	91.01	27.25	0.61
Ponzema	104.33	Tr 500	387.0	358.12	362.70	358.95	-3.75	359.75	-2.95	361.57	363.50	0.002115	4.05	101.78	27.61	0.61
Ponzema	104.32	Tr 50	185.0	358.01	360.33	364.16	3.83	360.82	0.49	360.33	361.40	0.008178	4.59	40.33	18.88	1.00
Ponzema	104.32	Tr 200	335.0	358.01	361.43	364.16	2.73	360.82	-0.61	361.43	362.92	0.007214	5.42	62.32	21.75	0.98
Ponzema	104.32	Tr 500	387.0	358.01	361.77	364.16	2.39	360.82	-0.95	361.77	363.37	0.006881	5.61	70.01	23.03	0.97
Ponzema	104.31	Tr 50	185.0	357.66	359.13	361.26	2.13	361.21	2.08	359.68	360.90	0.022118	5.89	31.39	23.21	1.62
Ponzema	104.31	Tr 200	335.0	357.66	359.76	361.26	1.50	361.21	1.45	360.66	362.41	0.023088	7.21	46.47	25.98	1.72
Ponzema	104.31	Tr 500	387.0	357.66	359.93	361.26	1.33	361.21	1.28	360.90	362.84	0.024271	7.55	51.23	27.74	1.78
Ponzema	104.3	Tr 50	185.0	357.47	359.30	359.42	0.12	361.60	2.30	359.34	360.14	0.008345	4.06	45.56	28.48	1.03
Ponzema	104.3	Tr 200	335.0	357.47	359.67	359.42	-0.25	361.60	1.93	360.15	361.47	0.014533	5.93	56.47	30.05	1.38
Ponzema	104.3	Tr 500	387.0	357.47	359.83	359.42	-0.41	361.60	1.77	360.39	361.87	0.015282	6.32	61.23	30.62	1.43
Ponzema	104.29	Tr 50	185.0	357.11	358.62	359.18	0.56	358.55	-0.07	358.87	359.72	0.013846	4.65	39.80	29.93	1.29
Ponzema	104.29	Tr 200	335.0	357.11	359.22	359.18	-0.04	358.55	-0.67	359.65	360.91	0.013265	5.76	58.30	33.71	1.33
Ponzema	104.29	Tr 500	387.0	357.11	359.39	359.18	-0.21	358.55	-0.84	359.88	361.28	0.013284	6.10	64.01	33.74	1.35
Ponzema	104.28	Tr 50	185.0	356.85	358.12	360.88	2.76	360.64	2.52	358.44	359.29	0.017105	4.80	38.53	32.51	1.41
Ponzema	104.28	Tr 200	335.0	356.85	358.62	360.88	2.26	360.64	2.02	359.15	360.48	0.018045	6.03	55.54	34.27	1.51
Ponzema	104.28	Tr 500	387.0	356.85	358.77	360.88	2.11	360.64	1.87	359.36	360.85	0.018161	6.38	60.69	34.43	1.53
Ponzema	104.27	Tr 50	185.0	356.57	358.46	357.80	-0.66	358.41	-0.05	357.94	358.80	0.002828	2.59	71.54	39.86	0.61
Ponzema	104.27	Tr 200	335.0	356.57	359.47	357.80	-1.67	358.41	-1.06	358.59	359.93	0.002136	3.01	111.99	40.12	0.57
Ponzema	104.27	Tr 500	387.0	356.57	359.88	357.80	-2.08	358.41	-1.47	358.80	360.35	0.001822	3.04	128.36	40.22	0.54
Ponzema	104.26	Tr 50	185.0	356.57	357.96	357.26	-0.70	356.57	-1.39	357.96	358.65	0.008055	3.68	50.42	36.98	1.00
Ponzema	104.26	Tr 200	335.0	356.57	359.26	357.26	-2.00	356.57	-2.69	358.63	359.85	0.002836	3.41	98.98	37.44	0.67
Ponzema	104.26	Tr 500	387.0	356.57	359.70	357.26	-2.44	356.57	-3.13	358.84	360.28	0.002279	3.38	115.46	69.71	0.61
Ponzema	104.25	Tr 50	185.0	355.75	357.87	359.34	1.47	361.91	4.04	357.34	358.29	0.003224	2.89	64.06	31.06	0.64
Ponzema	104.25	Tr 200	335.0	355.75	359.26	359.34	0.08	361.91	2.65	358.08	359.75	0.002081	3.11	107.71	31.57	0.54
Ponzema	104.25	Tr 500	387.0	355.75	359.68	359.34	-0.34	361.91	2.23	358.30	360.21	0.001916	3.20	121.07	62.63	0.52
Ponzema	104.245	Tr 50	185.0	354.81	357.40	358.99	1.59	359.70	2.30	357.12	358.16	0.005506	3.87	47.82	21.11	0.82
Ponzema	104.245	Tr 200	335.0	354.81	358.45	358.99	0.54	359.70	1.25	358.10	359.61	0.005604	4.77	70.24	21.43	0.84
Ponzema	104.245	Tr 500	387.0	354.81	358.77	358.99	0.22	359.70	0.93	358.40	360.06	0.005660	5.02	77.10	21.52	0.85

HEC-RAS Plan: T. Ponzema River: Ponzema Reach: Ponzema (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ponzema	104.243		Bridge													
Ponzema	104.24	Tr 50	185.0	354.81	357.12	358.99	1.87	359.70	2.58	357.12	358.11	0.008276	4.41	41.93	21.03	1.00
Ponzema	104.24	Tr 200	335.0	354.81	358.10	358.99	0.89	359.70	1.60	358.10	359.56	0.007913	5.35	62.64	21.32	1.00
Ponzema	104.24	Tr 500	387.0	354.81	358.40	358.99	0.59	359.70	1.30	358.40	360.00	0.007871	5.60	69.06	21.41	1.00
Ponzema	104.23	Tr 50	185.0	354.52	356.29	358.57	2.28	359.75	3.46	356.62	357.75	0.015024	5.34	34.66	20.97	1.33
Ponzema	104.23	Tr 200	335.0	354.52	357.15	358.57	1.42	359.75	2.60	357.62	359.20	0.013317	6.34	52.84	21.35	1.29
Ponzema	104.23	Tr 500	387.0	354.52	357.42	358.57	1.15	359.75	2.33	357.92	359.65	0.012979	6.61	58.57	21.47	1.28
Ponzema	104.22	Tr 50	185.0	354.17	356.84	358.14	1.30	358.33	1.49	356.41	357.54	0.004678	3.69	50.17	20.40	0.75
Ponzema	104.22	Tr 200	335.0	354.17	357.88	358.14	0.26	358.33	0.45	357.42	359.00	0.005275	4.69	71.43	20.75	0.81
Ponzema	104.22	Tr 500	387.0	354.17	358.17	358.14	-0.03	358.33	0.16	357.72	359.44	0.005507	4.99	77.59	20.84	0.83
Ponzema	104.21	Tr 50	185.0	354.17	356.37	358.08	1.71	357.97	1.60	356.37	357.38	0.008421	4.44	41.67	20.77	1.00
Ponzema	104.21	Tr 200	335.0	354.17	357.35	358.08	0.73	357.97	0.62	357.35	358.83	0.008060	5.38	62.32	21.29	1.00
Ponzema	104.21	Tr 500	387.0	354.17	357.67	358.08	0.41	357.97	0.30	357.67	359.27	0.007889	5.60	69.09	21.46	1.00
Ponzema	104.2	Tr 50	185.0	354.15	355.66	357.93	2.27	357.78	2.12	356.04	357.08	0.018223	5.28	35.05	25.26	1.43
Ponzema	104.2	Tr 200	335.0	354.15	356.28	357.93	1.65	357.78	1.50	356.90	358.50	0.018448	6.60	50.75	25.37	1.49
Ponzema	104.2	Tr 500	387.0	354.15	356.48	357.93	1.45	357.78	1.30	357.16	358.94	0.018440	6.95	55.65	25.40	1.50
Ponzema	21	Tr 50	185.0	350.71	351.44	356.65	5.21	355.93	4.49	352.50	356.85	0.109466	10.30	17.96	24.80	3.87
Ponzema	21	Tr 200	335.0	350.71	351.92	356.65	4.73	355.93	4.01	353.36	358.27	0.067879	11.15	30.03	24.87	3.24
Ponzema	21	Tr 500	387.0	350.71	352.08	356.65	4.57	355.93	3.85	353.63	358.70	0.061109	11.40	33.95	24.89	3.12
Ponzema	20	Tr 50	185.0	349.97	351.06	356.65	5.59	352.51	1.45	351.95	354.31	0.039963	7.98	23.18	21.31	2.44
Ponzema	20	Tr 200	335.0	349.97	351.61	356.65	5.04	352.51	0.90	352.91	356.31	0.035621	9.60	34.90	21.45	2.40
Ponzema	20	Tr 500	387.0	349.97	351.79	356.65	4.86	352.51	0.72	353.19	356.88	0.034194	9.99	38.76	21.50	2.37
Ponzema	19	Tr 50	185.0	349.34	350.83	356.48	5.65	352.06	1.23	351.56	353.28	0.023048	6.93	26.70	19.24	1.88
Ponzema	19	Tr 200	335.0	349.34	351.44	356.48	5.04	352.06	0.62	352.52	355.30	0.023964	8.70	38.52	19.43	1.97
Ponzema	19	Tr 500	387.0	349.34	351.64	356.48	4.84	352.06	0.42	352.79	355.89	0.023734	9.12	42.42	19.49	1.97
Ponzema	18	Tr 50	185.0	348.70	350.10	355.42	5.32	355.96	5.86	350.81	352.49	0.025741	6.85	27.02	22.16	1.98
Ponzema	18	Tr 200	335.0	348.70	350.60	355.42	4.82	355.96	5.36	351.71	354.46	0.028224	8.70	38.52	22.85	2.14
Ponzema	18	Tr 500	387.0	348.70	350.76	355.42	4.66	355.96	5.20	352.00	355.05	0.028233	9.17	42.20	22.86	2.16
Ponzema	17	Tr 50	185.0	348.03	349.40	353.59	4.19	351.58	2.18	350.09	351.71	0.022355	6.74	27.46	20.52	1.86
Ponzema	17	Tr 200	335.0	348.03	349.99	353.59	3.60	351.58	1.59	351.07	353.62	0.022968	8.44	39.70	20.64	1.94
Ponzema	17	Tr 500	387.0	348.03	350.18	353.59	3.41	351.58	1.40	351.35	354.21	0.023046	8.90	43.51	20.67	1.96
Ponzema	16	Tr 50	185.0	347.38	348.71	351.51	2.80	351.57	2.86	349.38	350.93	0.021403	6.60	28.04	21.22	1.83
Ponzema	16	Tr 200	335.0	347.38	349.29	351.51	2.22	351.57	2.28	350.34	352.82	0.022416	8.32	40.27	21.37	1.94
Ponzema	16	Tr 500	387.0	347.38	349.47	351.51	2.05	351.57	2.11	350.63	353.40	0.022605	8.79	44.05	21.41	1.96
Ponzema	15	Tr 50	185.0	346.70	348.11	349.59	1.48	349.12	1.01	348.74	350.22	0.019273	6.44	28.74	20.71	1.75
Ponzema	15	Tr 200	335.0	346.70	348.71	349.59	0.88	349.12	0.41	349.89	352.07	0.020208	8.11	41.30	20.87	1.84

HEC-RAS Plan: T. Ponzema River: Ponzema Reach: Ponzema (Continued)

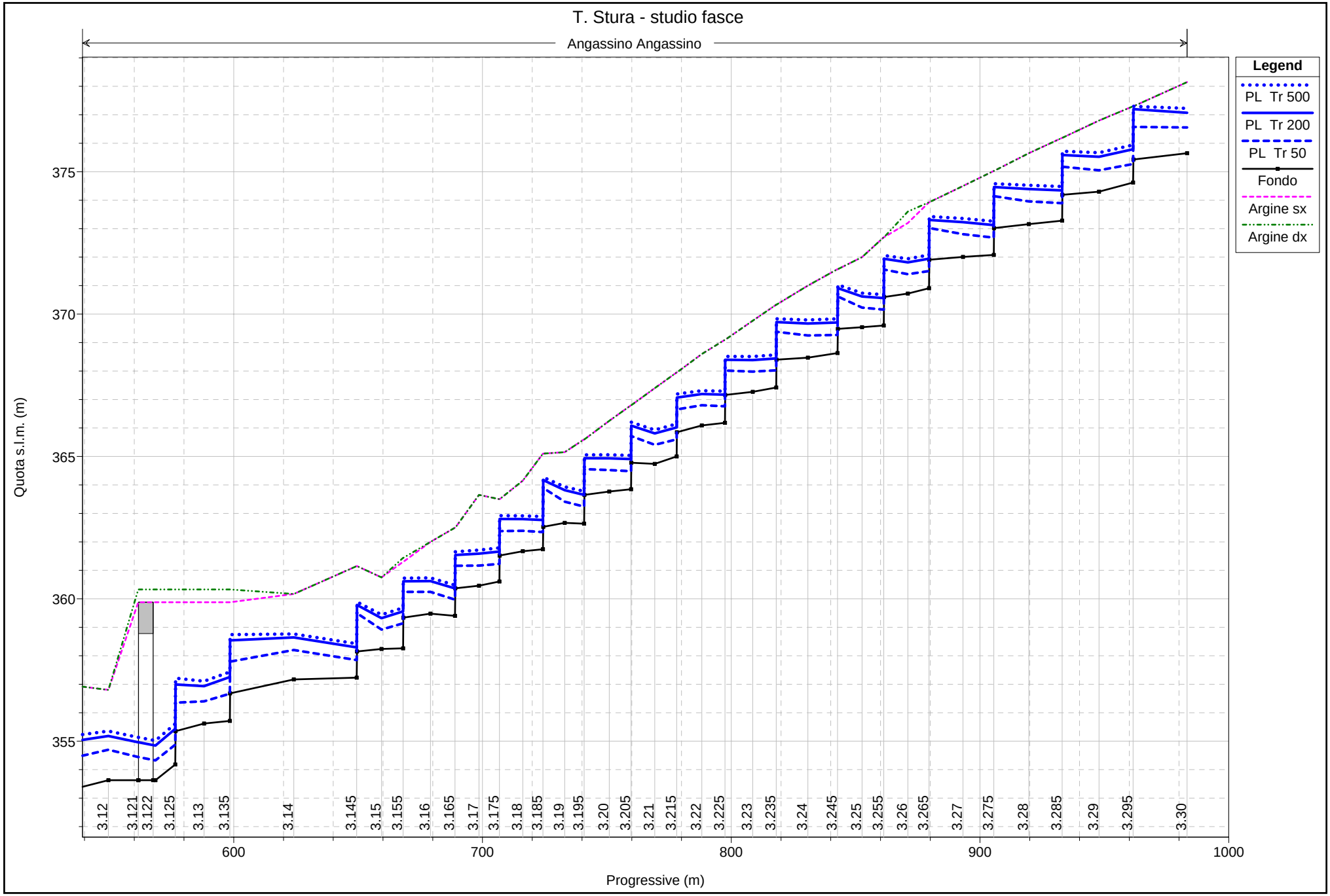
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ponzema	15	Tr 500	387.0	346.70	348.90	349.59	0.69	349.12	0.22	350.22	352.64	0.020435	8.57	45.16	20.91	1.86
Ponzema	14	Tr 50	185.0	346.01	347.28	348.62	1.34	348.88	1.60	347.94	349.48	0.023231	6.57	28.16	22.78	1.89
Ponzema	14	Tr 200	335.0	346.01	347.82	348.62	0.80	348.88	1.06	348.97	351.29	0.023824	8.25	40.60	22.87	1.98
Ponzema	14	Tr 500	387.0	346.01	347.99	348.62	0.63	348.88	0.89	349.30	351.86	0.023979	8.71	44.41	22.90	2.00
Ponzema	13	Tr 50	185.0	345.34	346.78	348.20	1.42	349.31	2.53	347.37	348.78	0.017416	6.25	29.58	21.22	1.69
Ponzema	13	Tr 200	335.0	345.34	347.39	348.20	0.81	349.31	1.92	348.48	350.56	0.018268	7.88	42.51	21.26	1.78
Ponzema	13	Tr 500	387.0	345.34	347.58	348.20	0.62	349.31	1.73	348.82	351.12	0.018504	8.33	46.46	21.27	1.80
Ponzema	12	Tr 50	185.0	344.68	346.16	347.94	1.78	349.45	3.29	346.77	348.20	0.017341	6.32	29.29	20.70	1.70
Ponzema	12	Tr 200	335.0	344.68	346.80	347.94	1.14	349.45	2.65	347.74	349.96	0.017680	7.87	42.55	20.87	1.76
Ponzema	12	Tr 500	387.0	344.68	347.00	347.94	0.94	349.45	2.46	348.13	350.51	0.017808	8.30	46.60	20.89	1.78
Ponzema	11	Tr 50	185.0	344.65	346.10	347.93	1.83	348.81	2.71	346.71	348.17	0.017972	6.37	29.05	20.53	1.71
Ponzema	11	Tr 200	335.0	344.65	346.75	347.93	1.18	348.81	2.06	347.70	349.93	0.017980	7.90	42.42	20.60	1.76
Ponzema	11	Tr 500	387.0	344.65	346.95	347.93	0.98	348.81	1.86	348.06	350.48	0.018072	8.32	46.49	20.62	1.77
Ponzema	10	Tr 50	185.0	344.27	345.75	347.81	2.06	348.43	2.68	346.36	347.83	0.017680	6.38	28.98	20.32	1.71
Ponzema	10	Tr 200	335.0	344.27	346.41	347.81	1.40	348.43	2.02	347.36	349.59	0.017584	7.89	42.43	20.38	1.75
Ponzema	10	Tr 500	387.0	344.27	346.61	347.81	1.20	348.43	1.82	347.66	350.14	0.017653	8.32	46.53	20.40	1.76
Ponzema	9	Tr 50	185.0	343.88	345.29	347.76	2.47	348.03	2.74	345.94	347.46	0.019582	6.52	28.38	21.13	1.80
Ponzema	9	Tr 200	335.0	343.88	345.91	347.76	1.85	348.03	2.12	346.90	349.22	0.019266	8.05	41.61	21.20	1.83
Ponzema	9	Tr 500	387.0	343.88	346.11	347.76	1.65	348.03	1.92	347.20	349.77	0.019266	8.47	45.67	21.22	1.84
Ponzema	8	Tr 50	185.0	343.85	345.18	347.76	2.58	348.00	2.82	345.85	347.43	0.021743	6.64	27.86	21.26	1.85
Ponzema	8	Tr 200	335.0	343.85	345.80	347.76	1.96	348.00	2.20	346.81	349.19	0.020918	8.15	41.09	21.35	1.88
Ponzema	8	Tr 500	387.0	343.85	345.99	347.76	1.77	348.00	2.01	347.11	349.74	0.020835	8.57	45.14	21.38	1.88
Ponzema	7.5	Tr 50	185.0	343.44	344.81	347.70	2.89	348.72	3.91	345.45	346.96	0.020030	6.50	28.46	21.26	1.79
Ponzema	7.5	Tr 200	335.0	343.44	345.42	347.70	2.28	348.72	3.30	346.41	348.74	0.019915	8.06	41.56	21.35	1.84
Ponzema	7.5	Tr 500	387.0	343.44	345.61	347.70	2.09	348.72	3.11	346.71	349.29	0.019925	8.49	45.60	21.38	1.86
Ponzema	7.4		Bridge													
Ponzema	7	Tr 50	185.0	343.38	344.75	347.64	2.89	348.66	3.91	345.39	346.90	0.019958	6.49	28.49	21.26	1.79
Ponzema	7	Tr 200	335.0	343.38	345.37	347.64	2.27	348.66	3.29	346.35	348.67	0.019872	8.05	41.59	21.35	1.84
Ponzema	7	Tr 500	387.0	343.38	345.55	347.64	2.09	348.66	3.11	346.65	349.22	0.019887	8.48	45.62	21.38	1.85
Ponzema	6	Tr 50	185.0	342.97	344.36	347.39	3.03	348.50	4.14	345.00	346.50	0.019493	6.48	28.56	21.17	1.78
Ponzema	6	Tr 200	335.0	342.97	344.98	347.39	2.41	348.50	3.52	345.96	348.28	0.019491	8.04	41.65	21.26	1.83
Ponzema	6	Tr 500	387.0	342.97	345.17	347.39	2.22	348.50	3.33	346.26	348.82	0.019480	8.47	45.72	21.29	1.84
Ponzema	5	Tr 50	185.0	342.55	344.07	346.78	2.71	345.25	1.18	344.63	346.00	0.012707	6.14	30.13	19.98	1.60
Ponzema	5	Tr 200	335.0	342.55	344.74	346.78	2.04	345.25	0.51	345.64	347.76	0.013148	7.68	43.60	20.17	1.67
Ponzema	5	Tr 500	387.0	342.55	347.60	346.78	-0.82	345.25	-2.35	345.94	348.30	0.001151	3.74	108.53	28.15	0.54

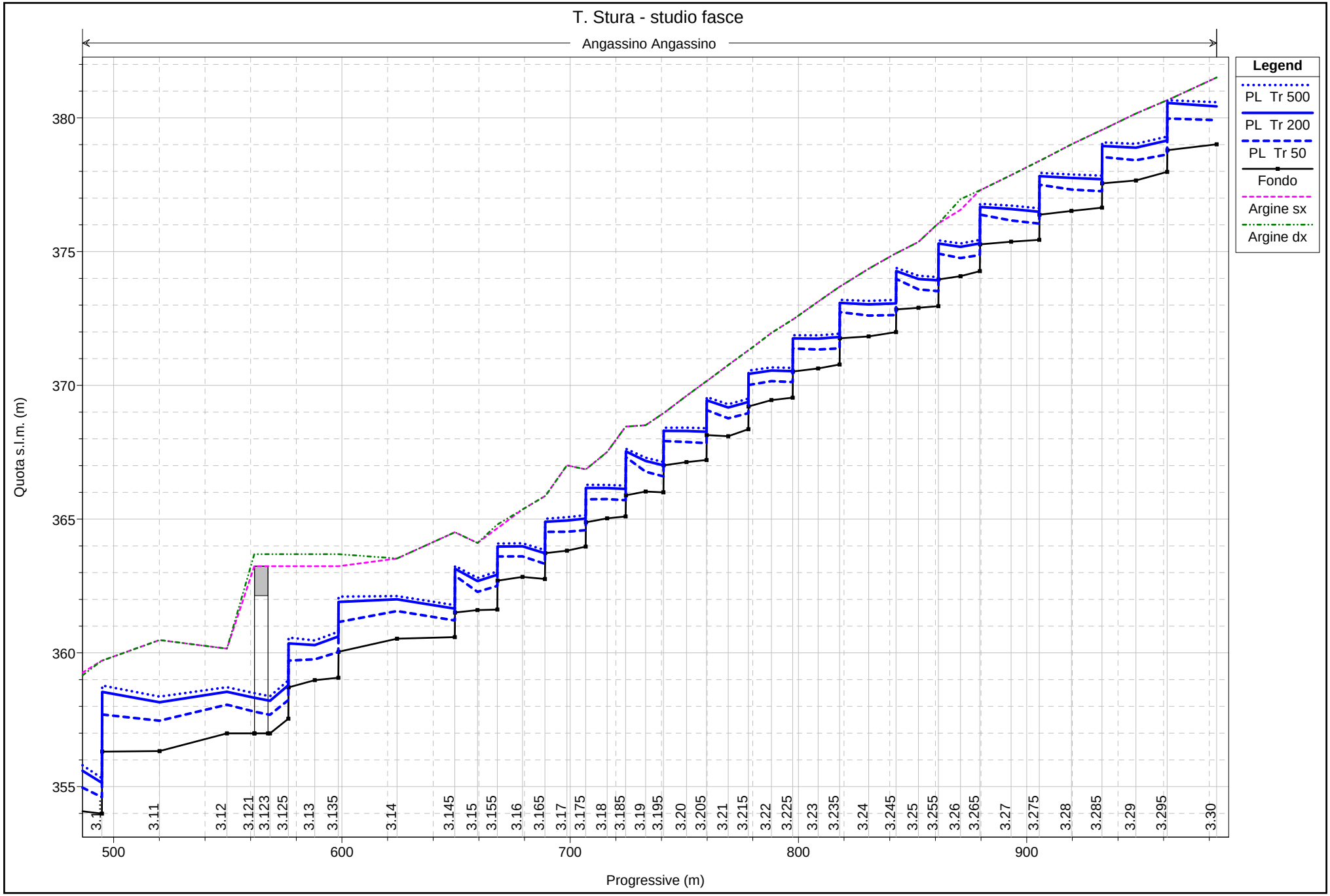
HEC-RAS Plan: T. Ponzema River: Ponzema Reach: Ponzema (Continued)

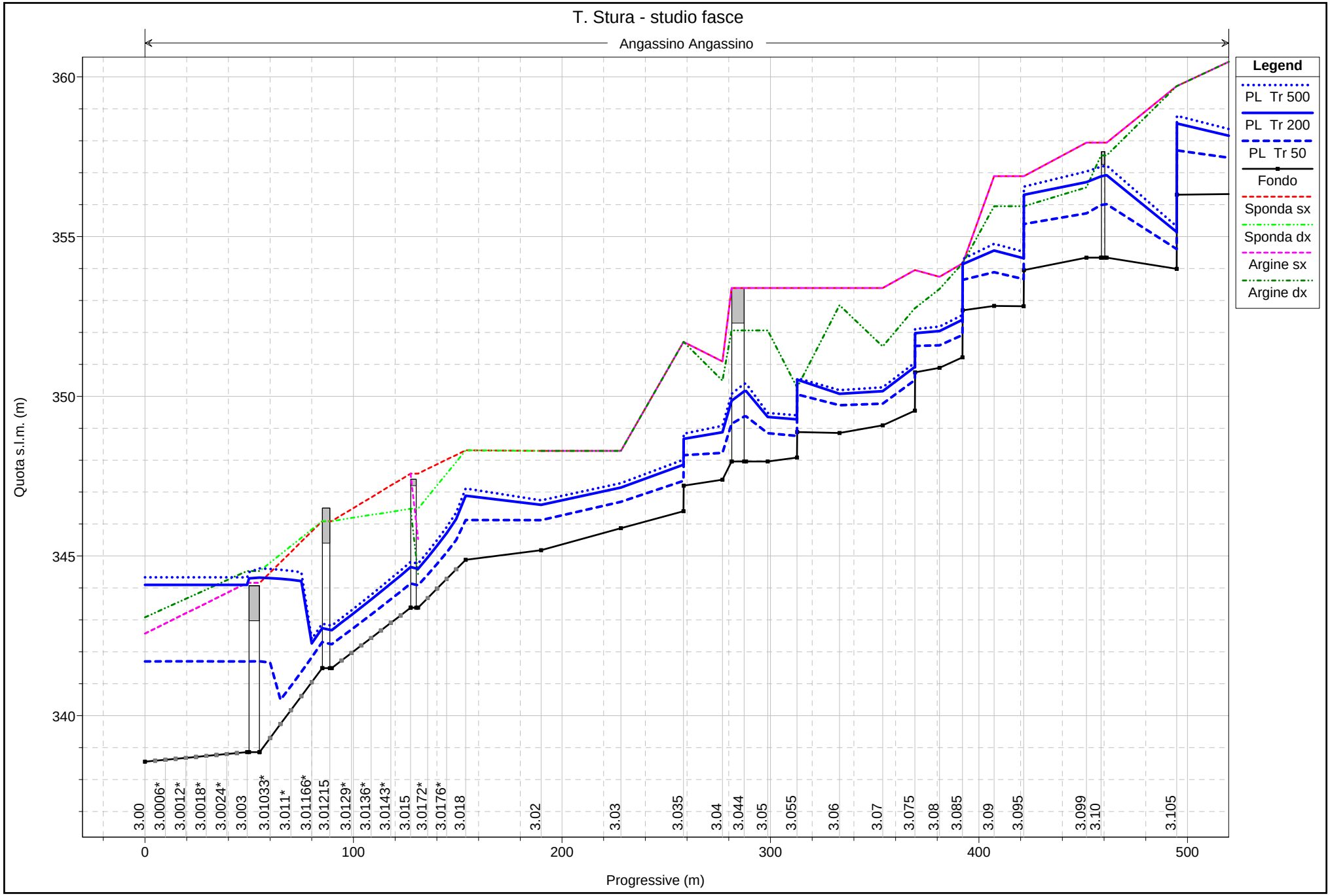
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ponzema	4.5	Tr 50	185.0	342.42	343.90	346.70	2.80	345.22	1.32	344.48	345.87	0.013449	6.21	29.78	20.24	1.64
Ponzema	4.5	Tr 200	335.0	342.42	344.56	346.70	2.14	345.22	0.66	345.48	347.63	0.013722	7.75	43.24	20.36	1.70
Ponzema	4.5	Tr 500	387.0	342.42	347.63	346.70	-0.93	345.22	-2.41	345.79	348.29	0.001033	3.60	112.17	27.56	0.51
Ponzema	4	Tr 50	185.0	342.11	343.69	346.20	2.51	346.20	2.51	344.22	345.56	0.012058	6.06	30.52	19.30	1.54
Ponzema	4	Tr 200	335.0	342.11	344.41	346.20	1.79	346.20	1.79	345.25	347.31	0.012273	7.54	44.44	19.30	1.59
Ponzema	4	Tr 500	387.0	342.11	347.68	346.20	-1.48	346.20	-1.48	345.57	348.25	0.001136	3.43	122.15	29.28	0.46
Ponzema	3.8		Bridge													
Ponzema	3.5	Tr 50	185.0	341.66	343.21	346.00	2.79	346.00	2.79	343.77	345.15	0.012720	6.17	30.00	19.30	1.58
Ponzema	3.5	Tr 200	335.0	341.66	343.94	346.00	2.06	346.00	2.06	344.80	346.90	0.012652	7.61	44.00	19.30	1.61
Ponzema	3.5	Tr 500	387.0	341.66	343.96	346.00	2.04	346.00	2.04	345.12	347.84	0.016454	8.72	44.38	19.30	1.84
Ponzema	3.4	Tr 50	185.0	341.65	343.20	346.00	2.80	347.35	4.15	343.76	345.15	0.012800	6.18	29.94	19.30	1.58
Ponzema	3.4	Tr 200	335.0	341.65	343.93	346.00	2.07	347.35	3.42	344.79	346.89	0.012702	7.62	43.95	19.30	1.61
Ponzema	3.4	Tr 500	387.0	341.65	343.95	346.00	2.05	347.35	3.40	345.10	347.83	0.016474	8.72	44.36	19.30	1.84
Ponzema	3.1	Tr 50	185.0	341.18	343.16	346.00	2.84	345.81	2.65	343.55	344.74	0.009079	5.55	33.33	19.32	1.35
Ponzema	3.1	Tr 200	335.0	341.18	343.88	346.00	2.12	345.81	1.93	344.57	346.45	0.010160	7.10	47.16	19.33	1.45
Ponzema	3.1	Tr 500	387.0	341.18	343.91	346.00	2.09	345.81	1.90	344.89	347.26	0.013078	8.11	47.72	19.33	1.65
Ponzema	2.9	Tr 50	185.0	340.40	342.01	345.74	3.73	345.81	3.80	342.78	344.61	0.026737	7.15	25.89	20.17	2.01
Ponzema	2.9	Tr 200	335.0	340.40	342.69	345.74	3.05	345.81	3.12	343.78	346.33	0.022887	8.45	39.65	20.25	1.93
Ponzema	2.9	Tr 500	387.0	340.40	342.81	345.74	2.93	345.81	3.00	344.08	347.15	0.025643	9.23	41.95	20.26	2.05
Ponzema	2	Tr 50	185.0	340.20	343.63	346.89	3.26	345.60	1.97	342.39	344.01	0.001298	2.73	67.73	21.32	0.49
Ponzema	2	Tr 200	335.0	340.20	345.13	346.89	1.76	345.60	0.47	343.39	345.70	0.001347	3.35	99.95	21.62	0.50
Ponzema	2	Tr 500	387.0	340.20	345.67	346.89	1.22	345.60	-0.07	343.68	346.24	0.001244	3.39	119.23	27.51	0.48
Ponzema	1	Tr 50	185.0	340.10	342.99	346.68	3.69	345.35	2.36	342.79	343.89	0.004234	4.21	43.90	18.51	0.87
Ponzema	1	Tr 200	335.0	340.10	344.48	346.68	2.21	345.35	0.87	343.85	345.59	0.003234	4.68	71.64	18.82	0.77
Ponzema	1	Tr 500	387.0	340.10	344.95	346.68	1.73	345.35	0.40	344.18	346.13	0.003068	4.80	80.60	18.92	0.74

Rio Angassino

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati


T. Stura - studio fasce
Angassino Angassino
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine sx
Argine dx
Quota s.l.m. (m)
375
370
365
360
355
3.12
3.121
3.122
3.125
3.13
3.135
3.14
3.145
3.15
3.155
3.16
3.165
3.17
3.175
3.18
3.185
3.19
3.195
3.20
3.205
3.21
3.215
3.22
3.225
3.23
3.235
3.24
3.245
3.25
3.255
3.26
3.265
3.27
3.275
3.28
3.285
3.29
3.295
3.30
600
700
800
900
1000
Progressive (m)


T. Stura - studio fasce
Angassino Angassino
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine sx
Argine dx
Quota s.l.m. (m)
380
375
370
365
360
355
3.1
3.11
3.12
3.121
3.123
3.125
3.13
3.135
3.14
3.145
3.15
3.155
3.16
3.165
3.17
3.175
3.18
3.185
3.19
3.195
3.20
3.205
3.21
3.215
3.22
3.225
3.23
3.235
3.24
3.245
3.25
3.255
3.26
3.265
3.27
3.275
3.28
3.285
3.29
3.295
3.30
500
600
700
800
900
Progressive (m)


T. Stura - studio fasce
Angassino Angassino
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Sponda sx
Sponda dx
Argine sx
Argine dx
Quota s.l.m. (m)
360
355
350
345
340
0
100
200
300
400
500
Progressive (m)
3.00
3.0006*
3.0012*
3.0018*
3.0024*
3.003
3.01033*
3.011*
3.01166*
3.01215
3.0129*
3.0136*
3.0143*
3.015
3.0172*
3.0176*
3.018
3.02
3.03
3.035
3.04
3.044
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3.085
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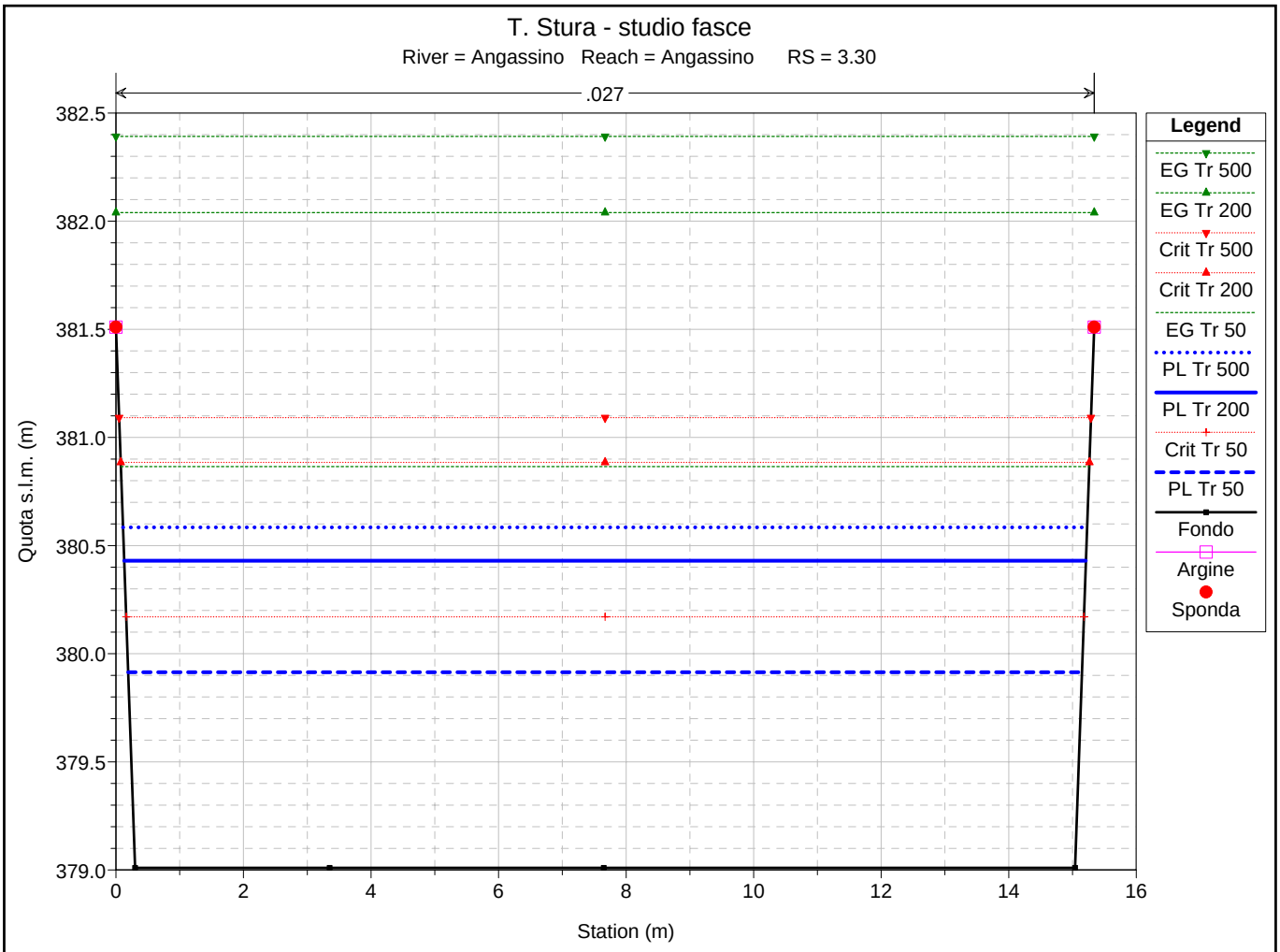
3.105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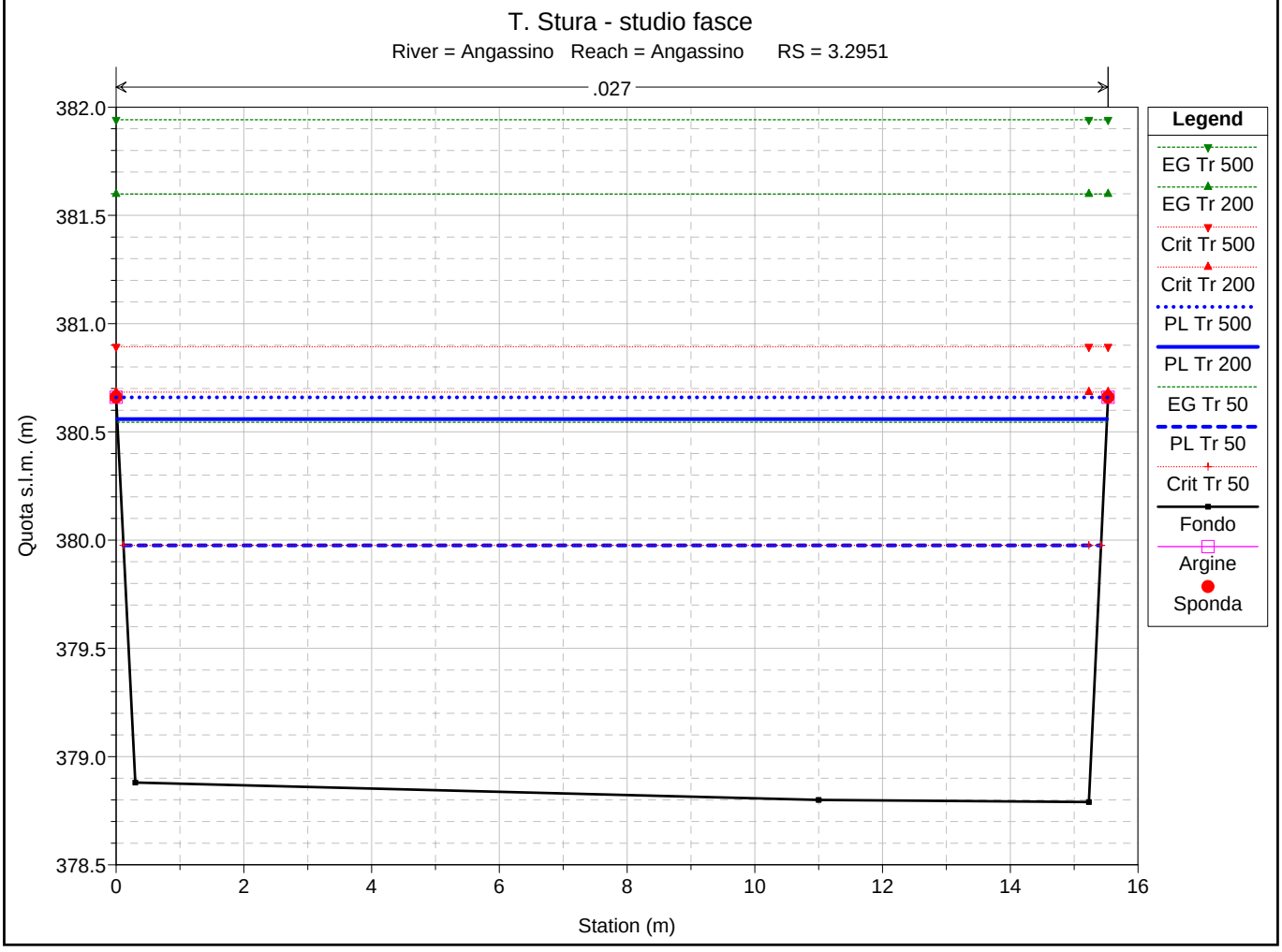
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda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.027
Quota s.l.m. (m)
Station (m)
Legend
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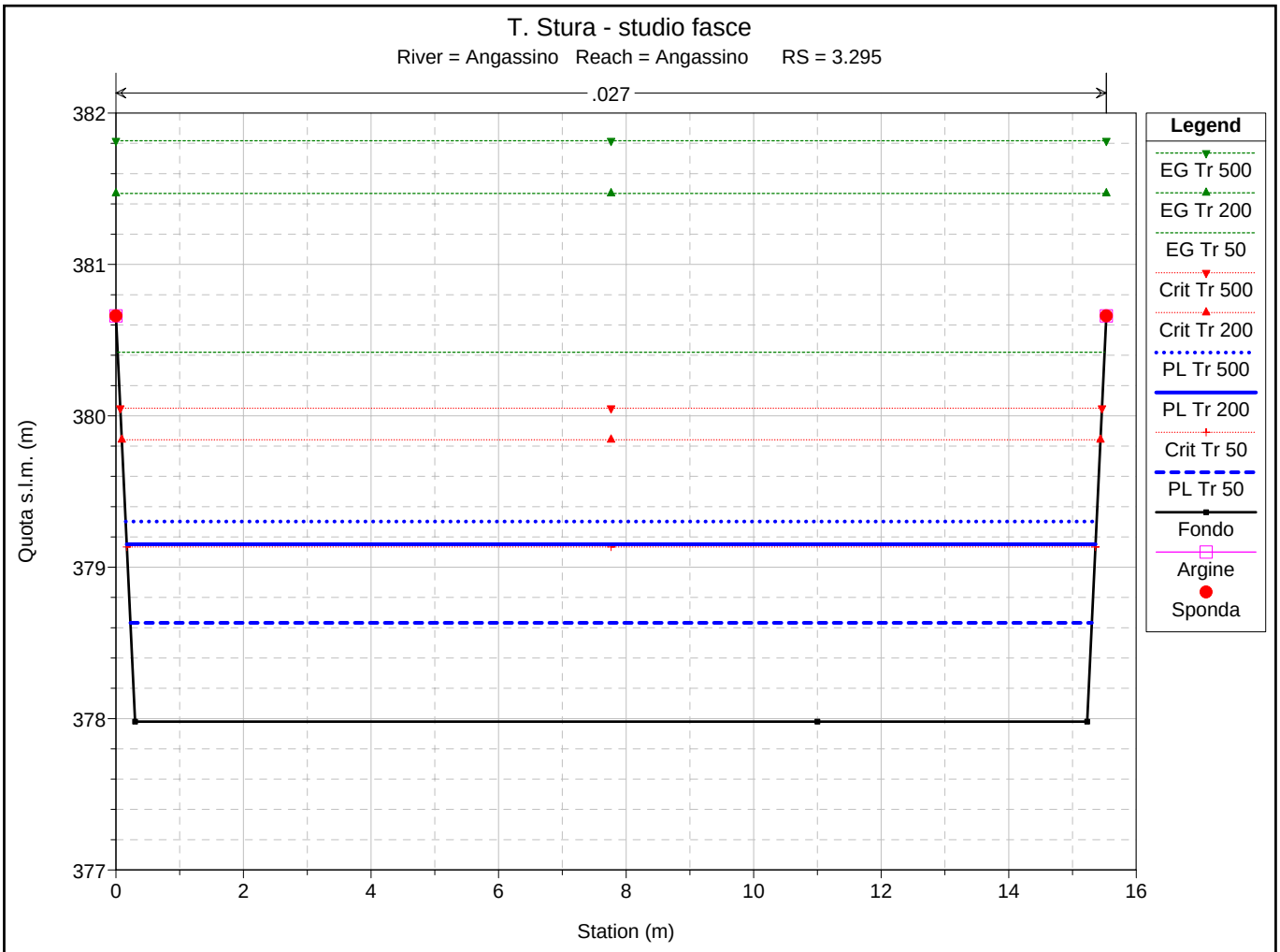
EG Tr 200
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda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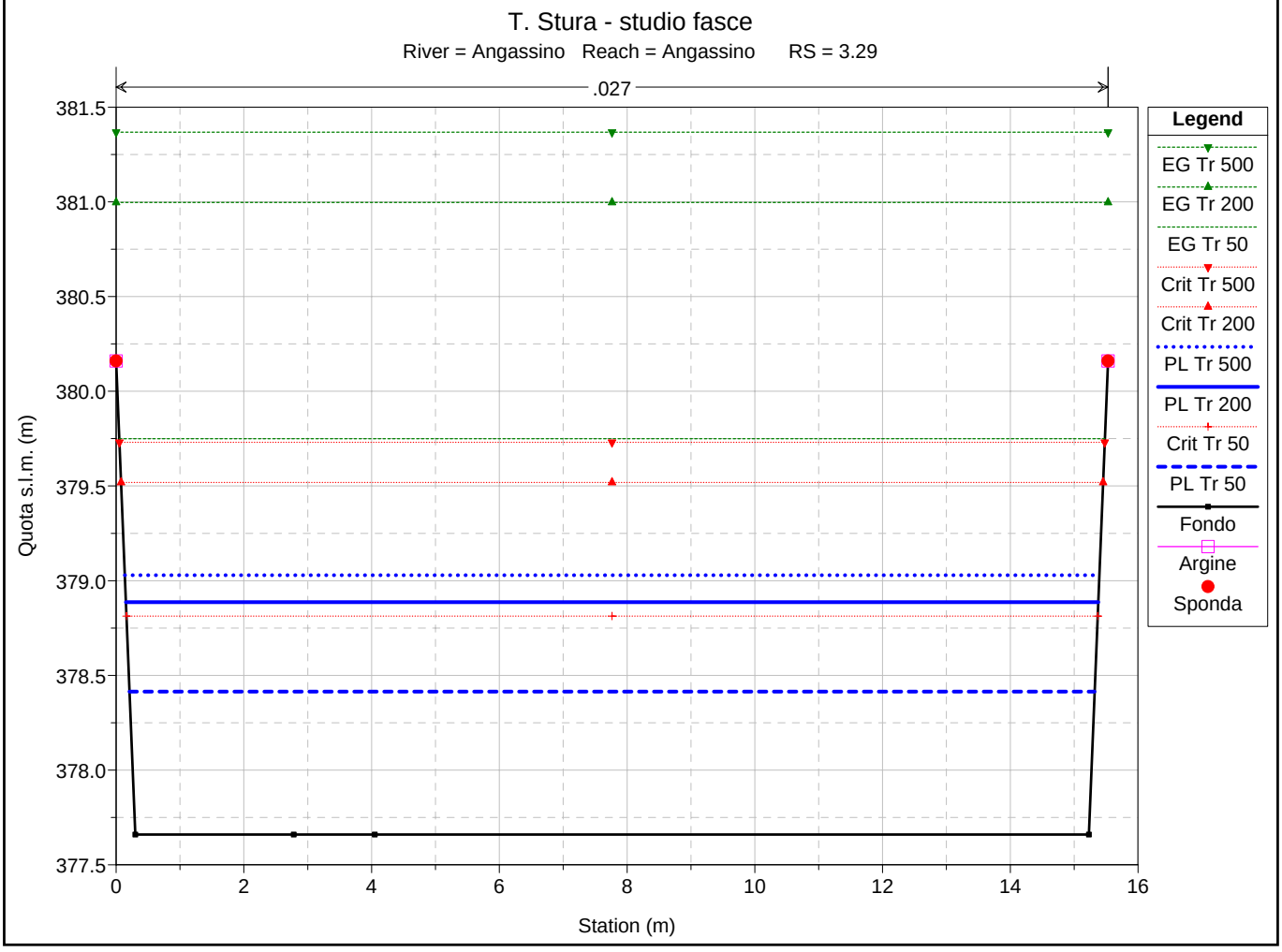
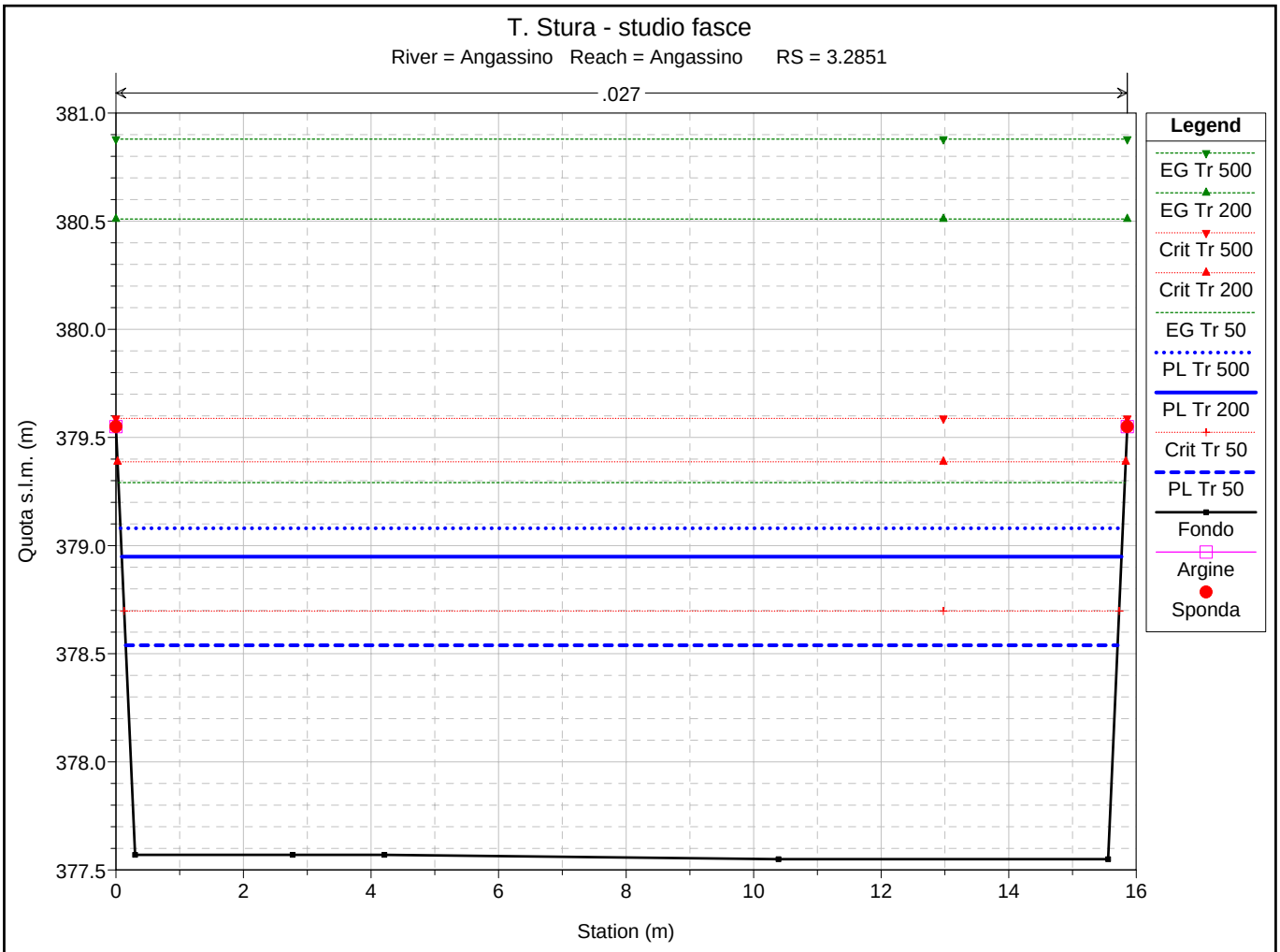
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda


T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.29
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda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.027
Quota s.l.m. (m)
Station (m)
Legend
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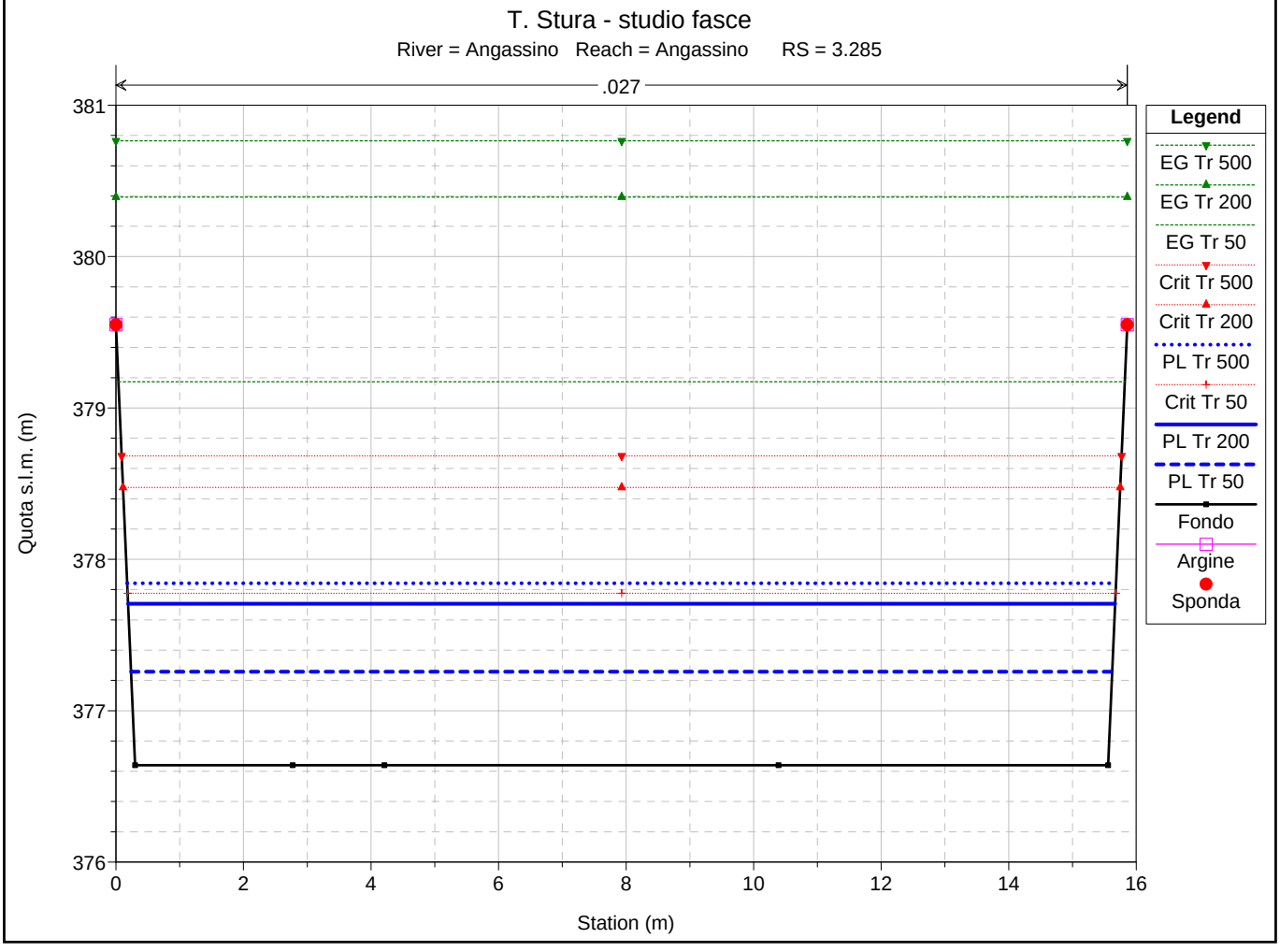
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda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.027
Quota s.l.m. (m)
Station (m)
Legend
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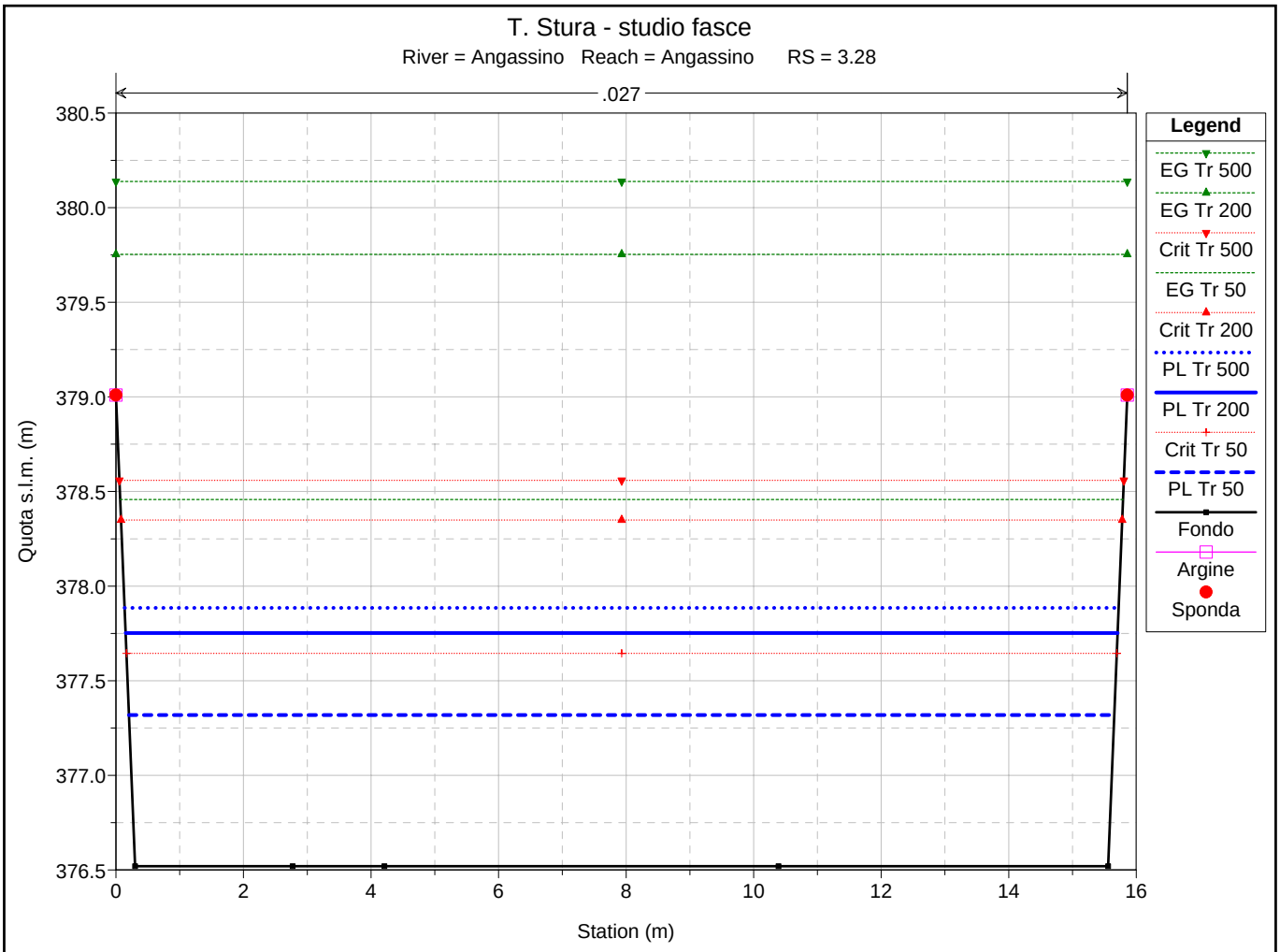
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda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.027
Quota s.l.m. (m)
Station (m)
Legend
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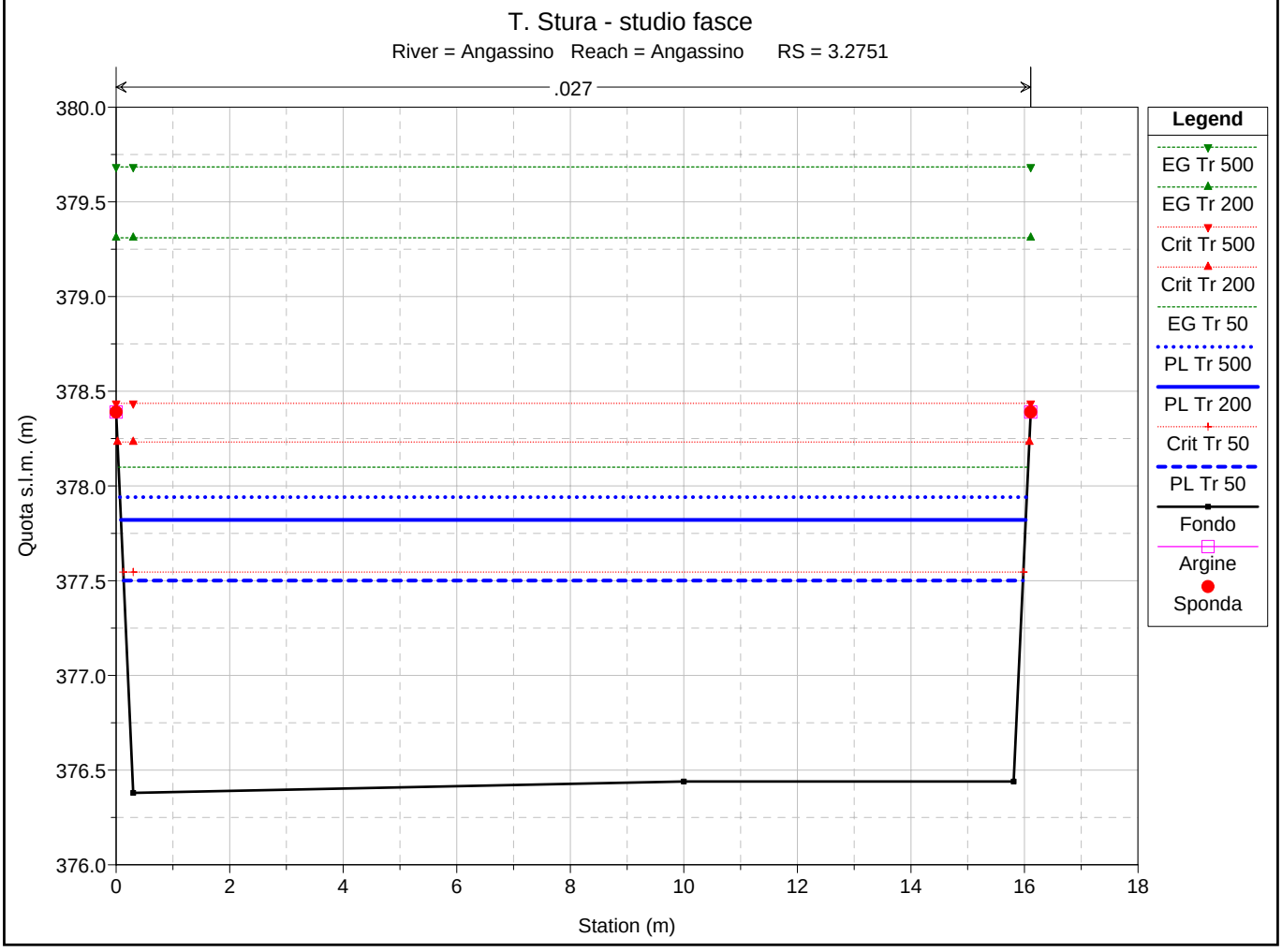
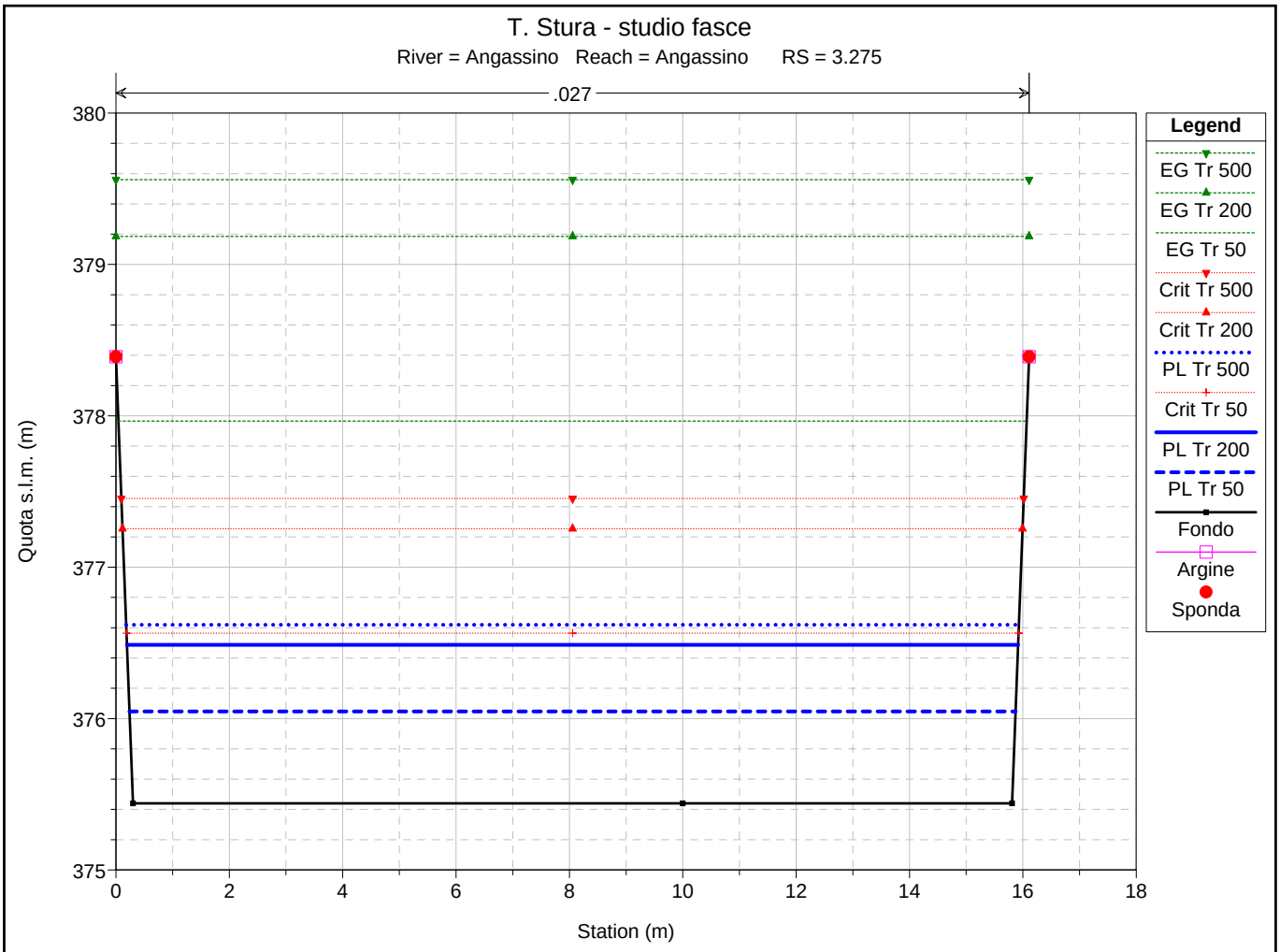
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda


T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.2751
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda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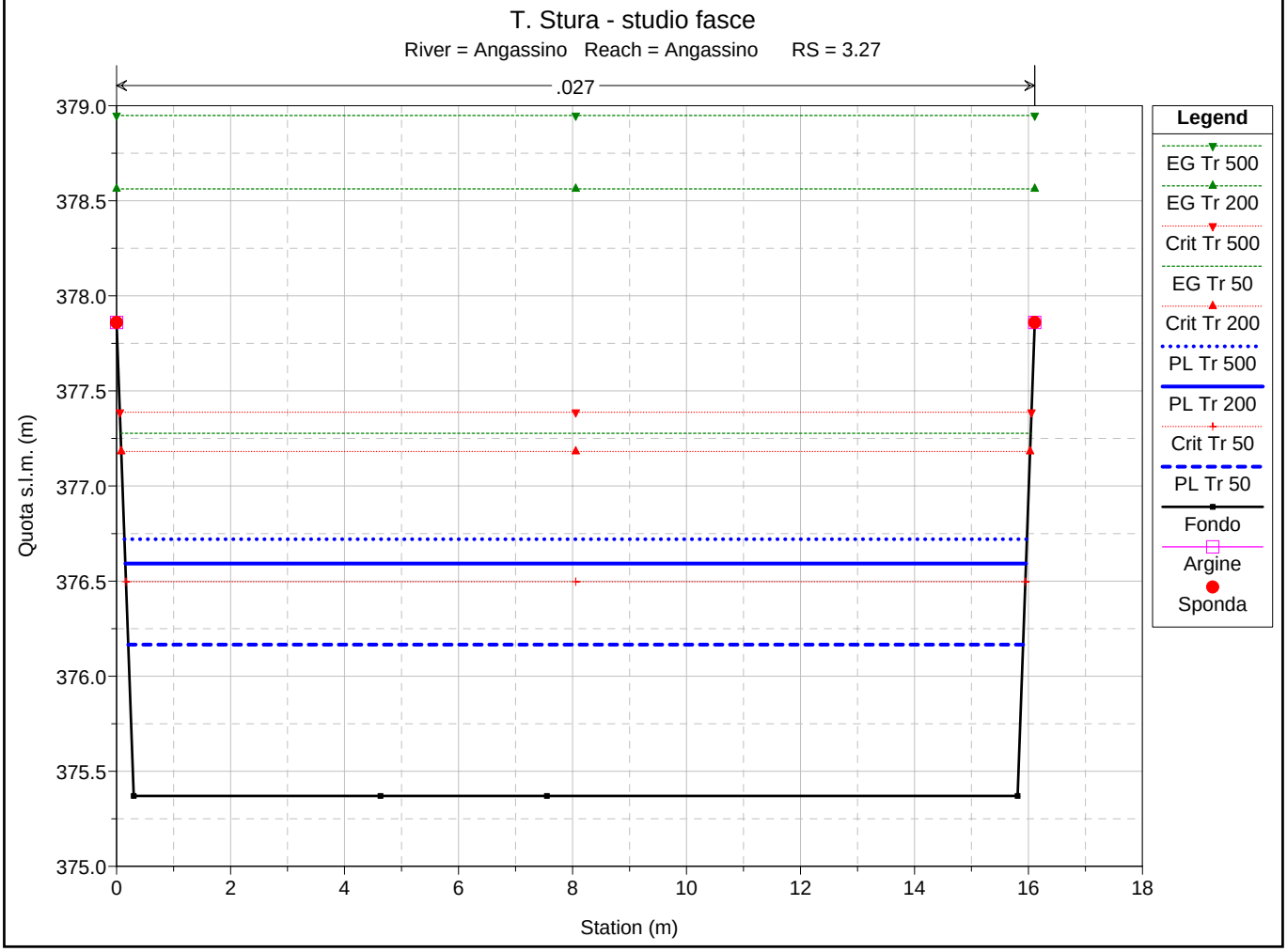
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda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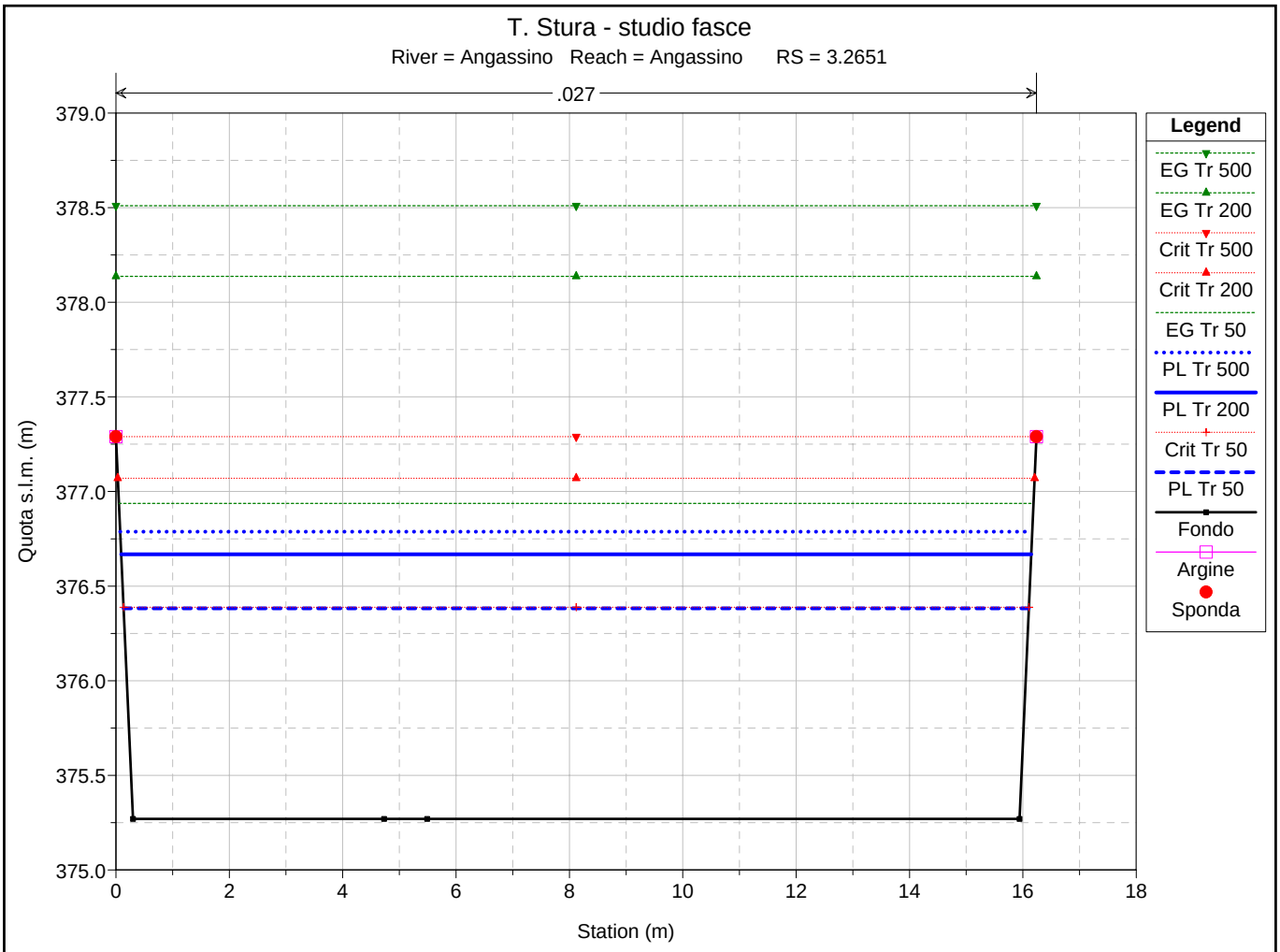
River = Angassino Reach = Angassino RS = 3.27
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda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Quota s.l.m. (m)
Station (m)
Legend
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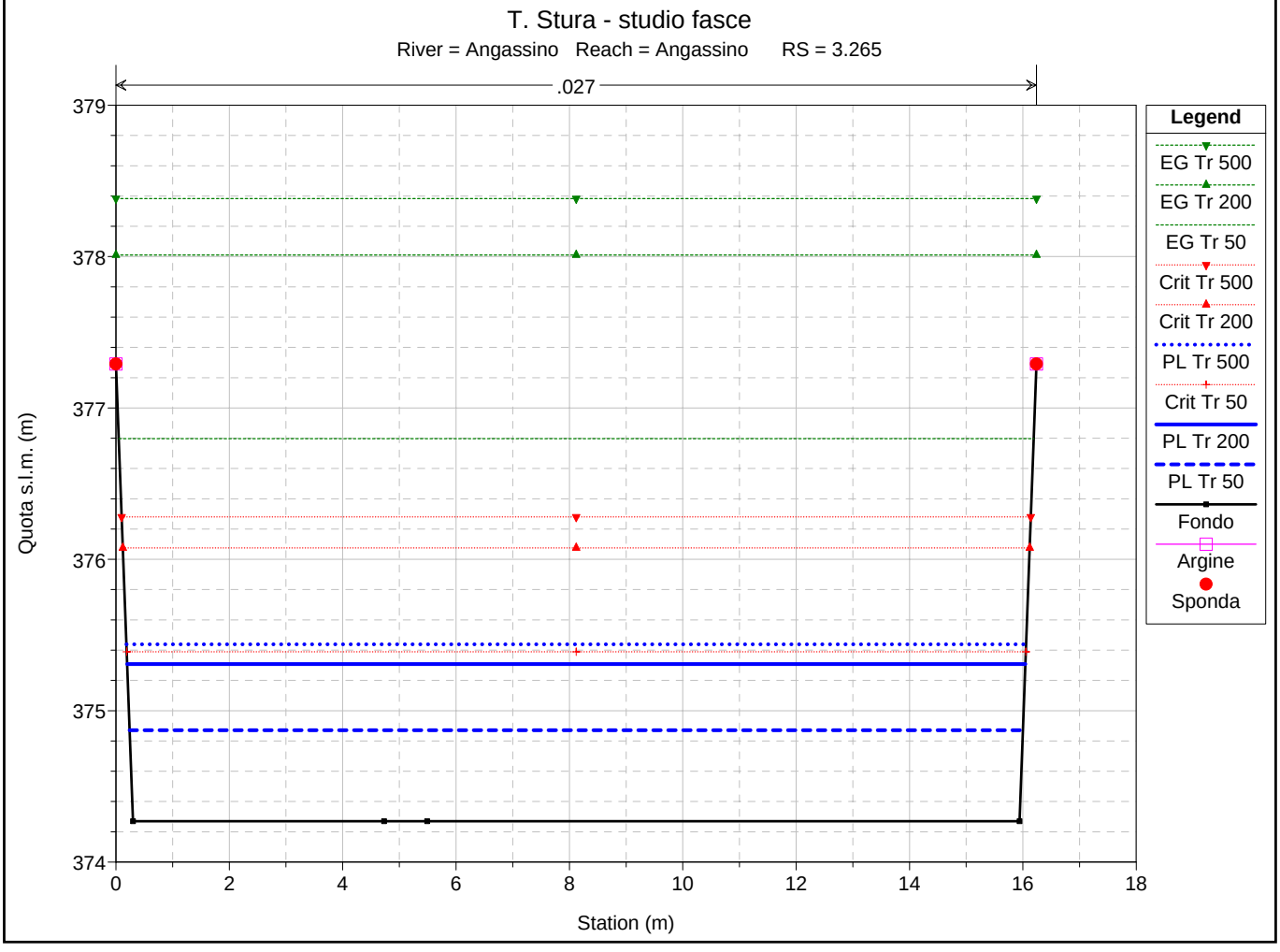
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda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.027
Quota s.l.m. (m)
Station (m)
Legend
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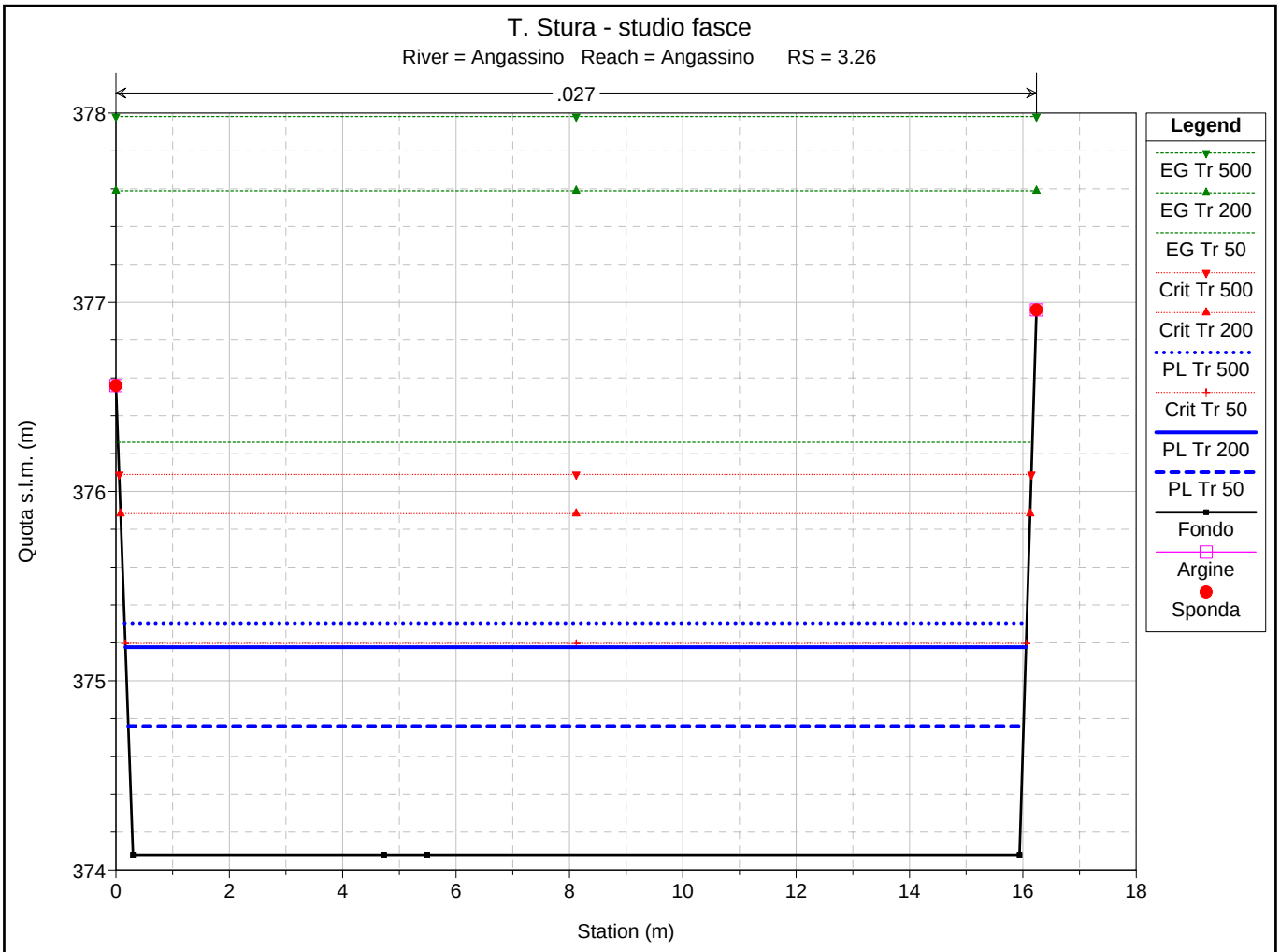
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda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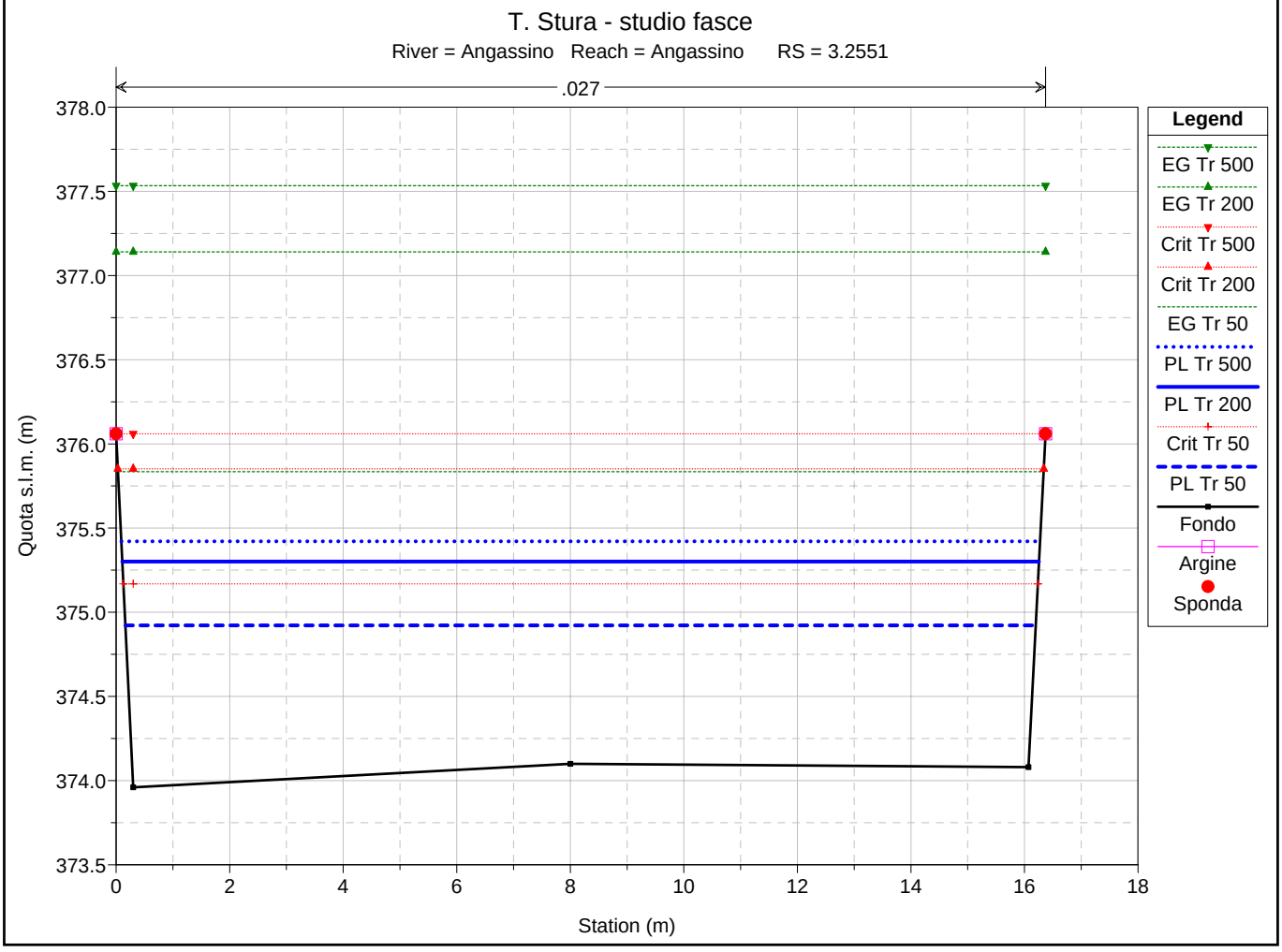
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda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.027
Quota s.l.m. (m)
Station (m)
Legend
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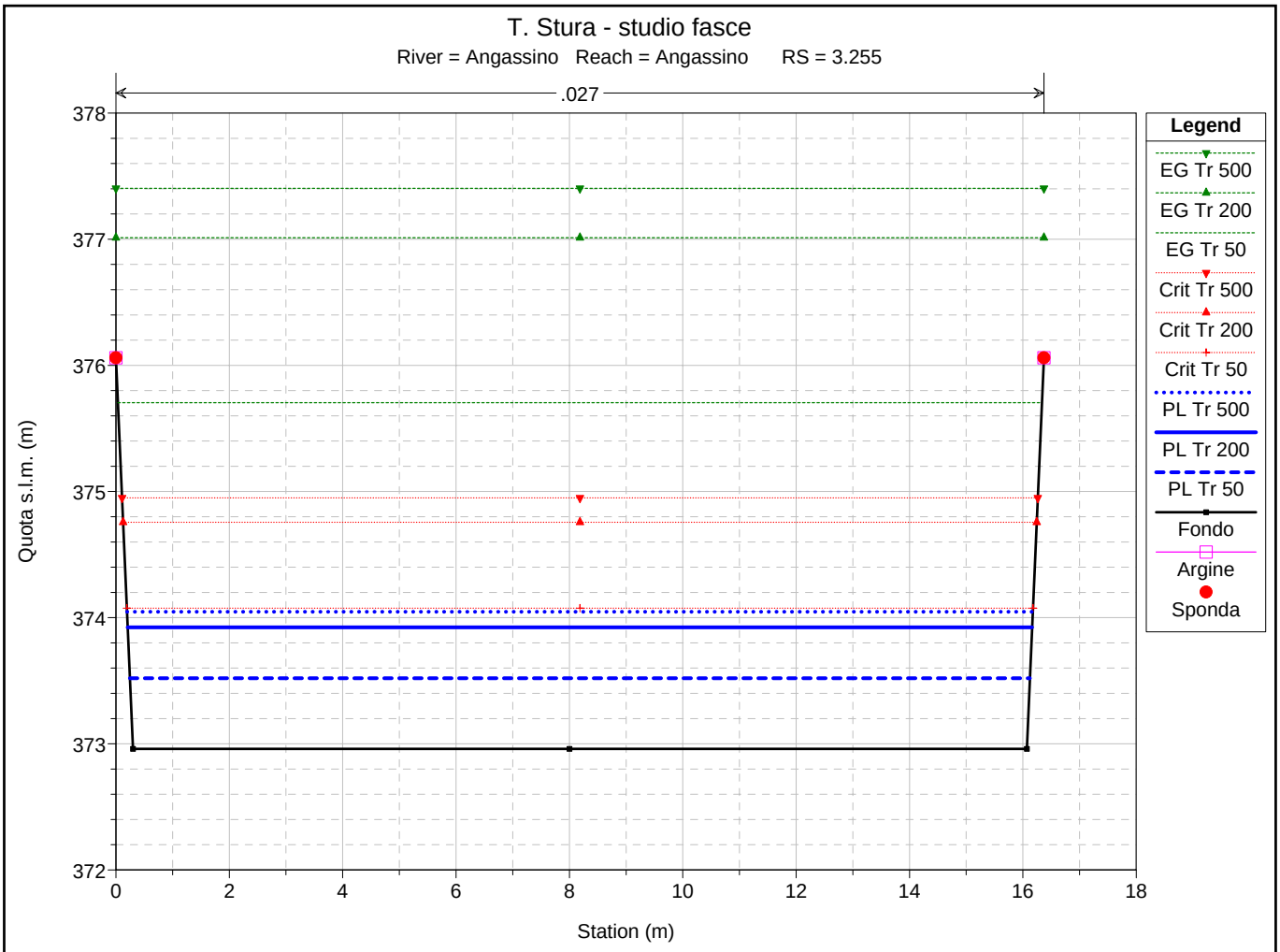
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda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Quota s.l.m. (m)
Station (m)
Legend
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EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
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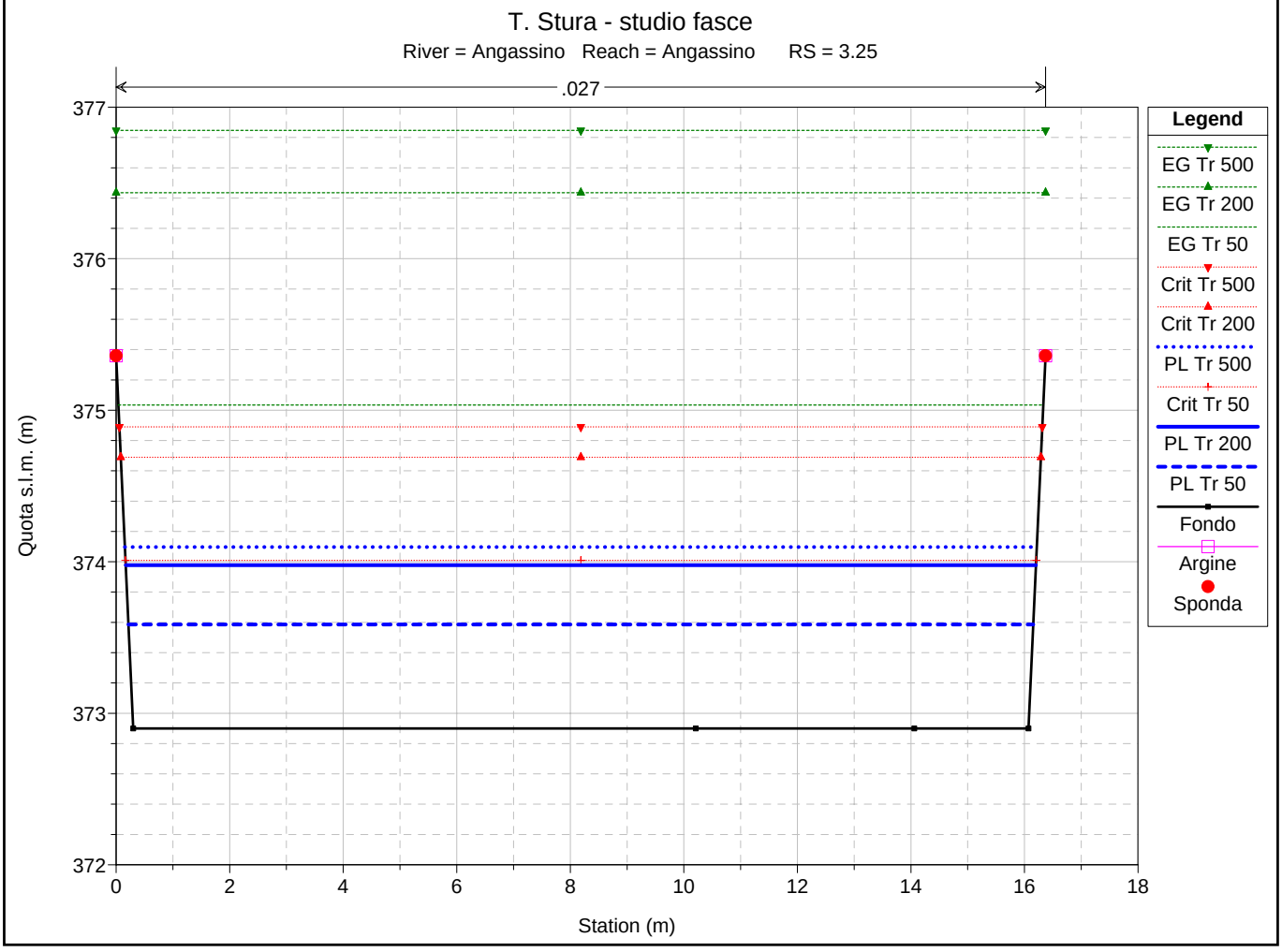
Argine
Sponda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.027
Quota s.l.m. (m)
Station (m)
Legend
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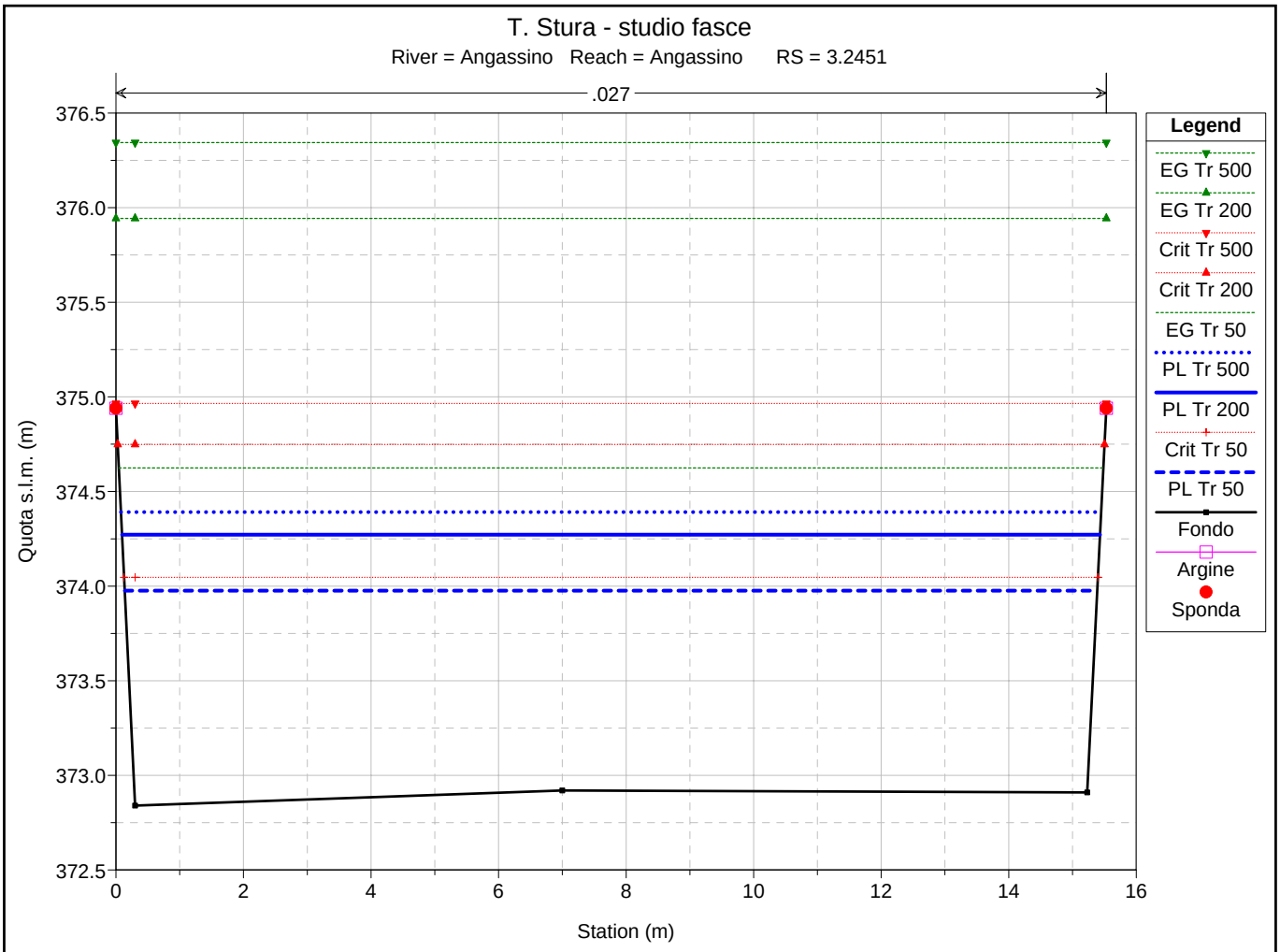
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda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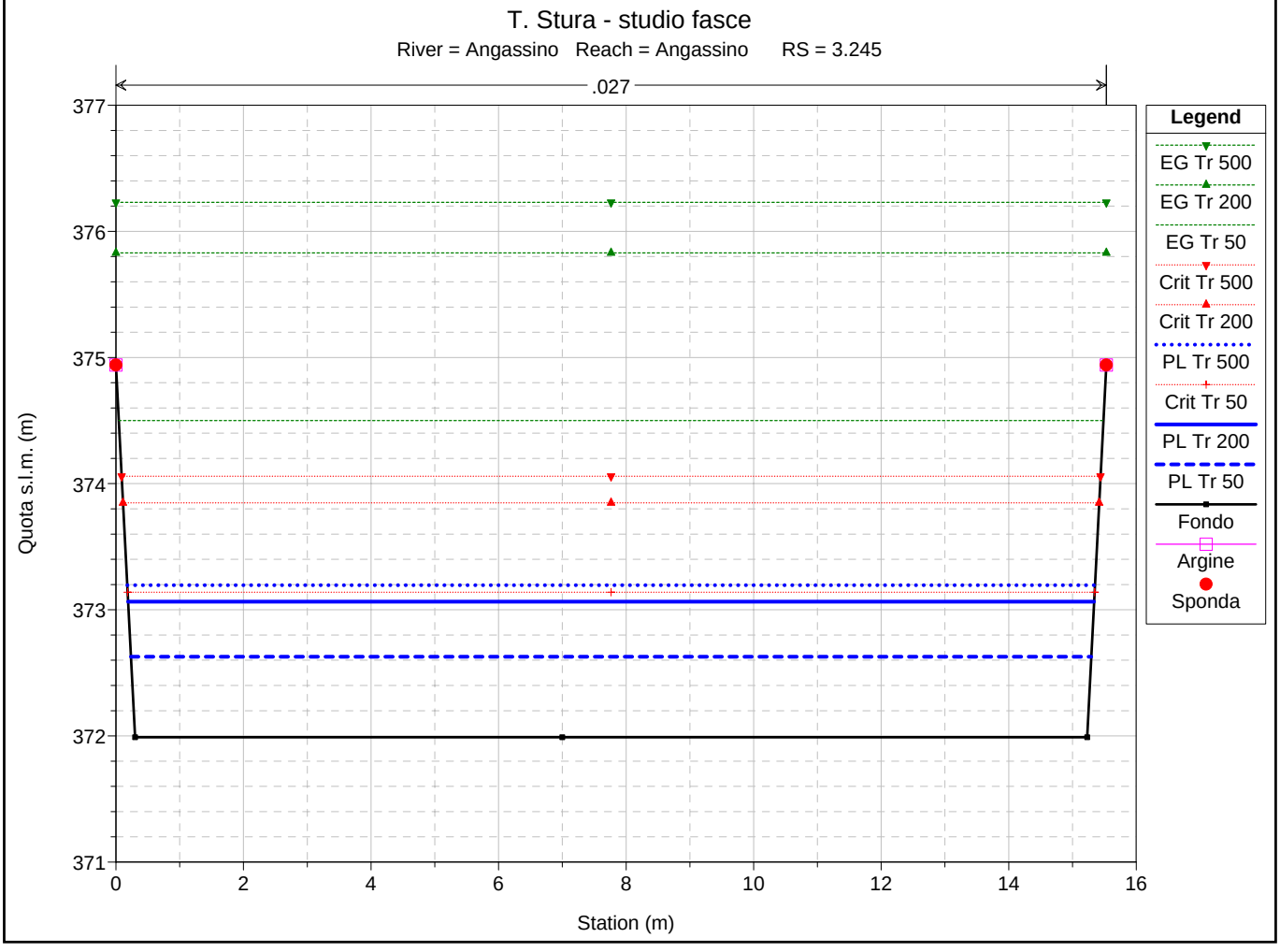
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda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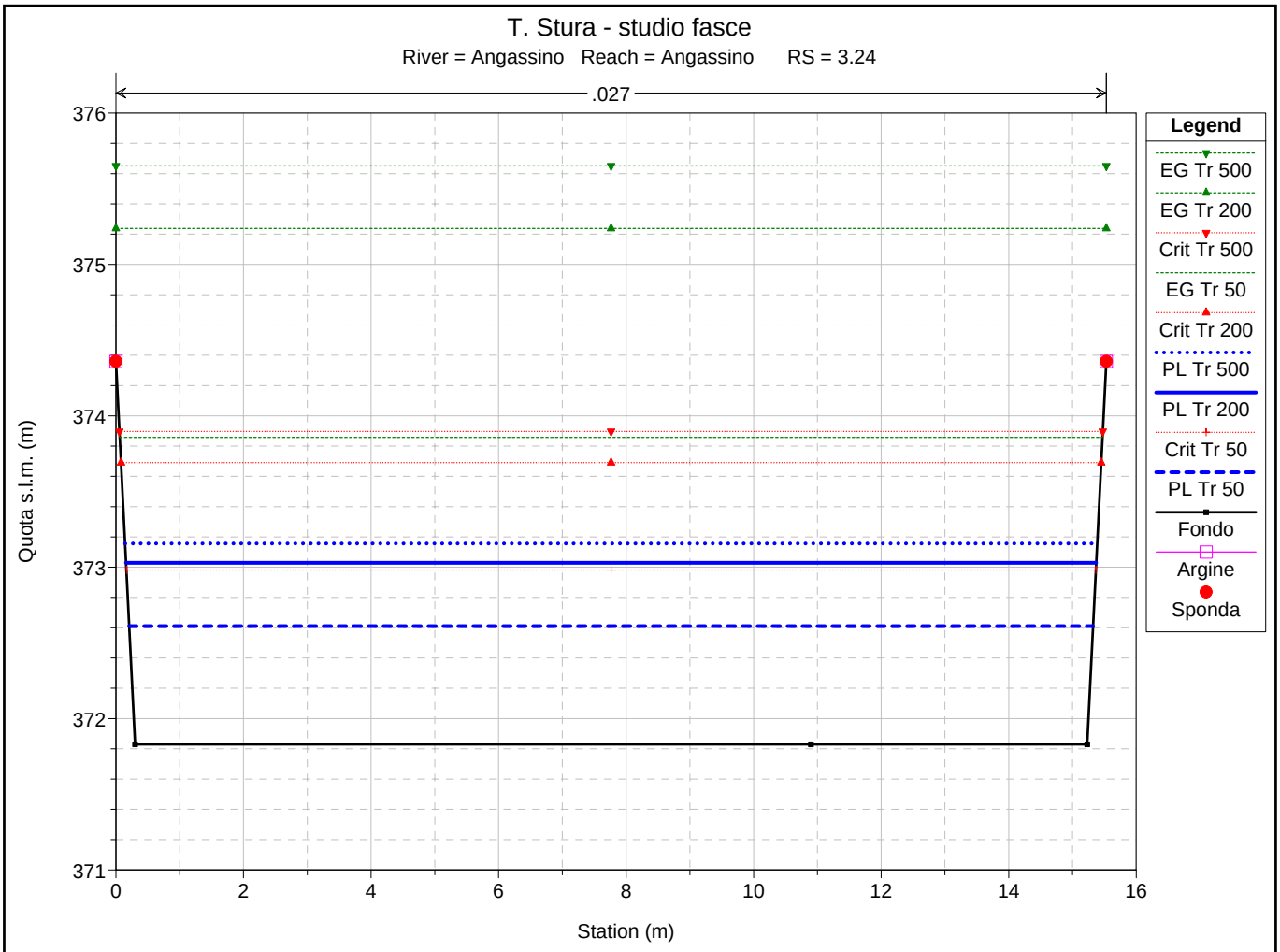
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda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Quota s.l.m. (m)
Station (m)
Legend
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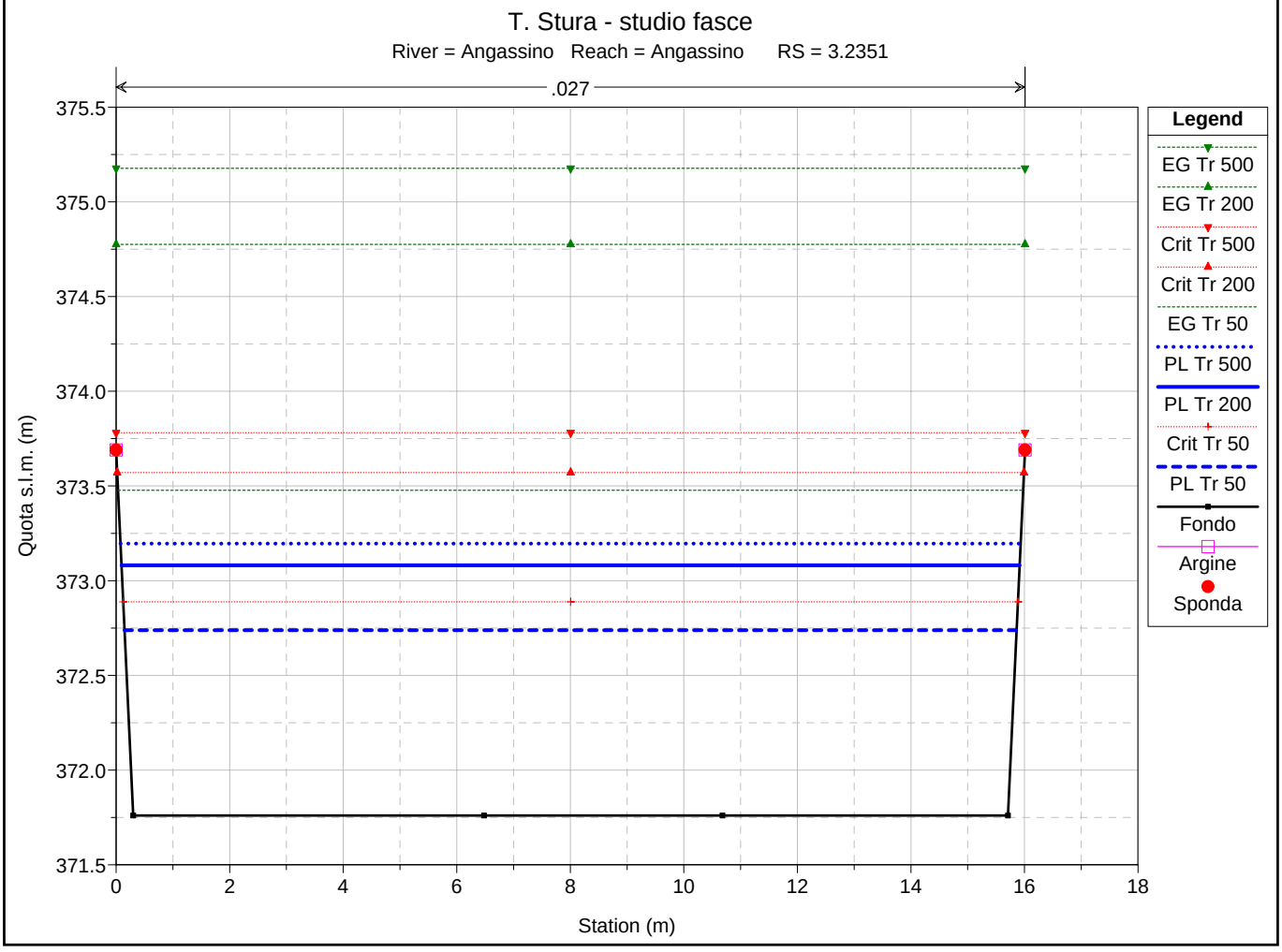
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda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Quota s.l.m. (m)
Station (m)
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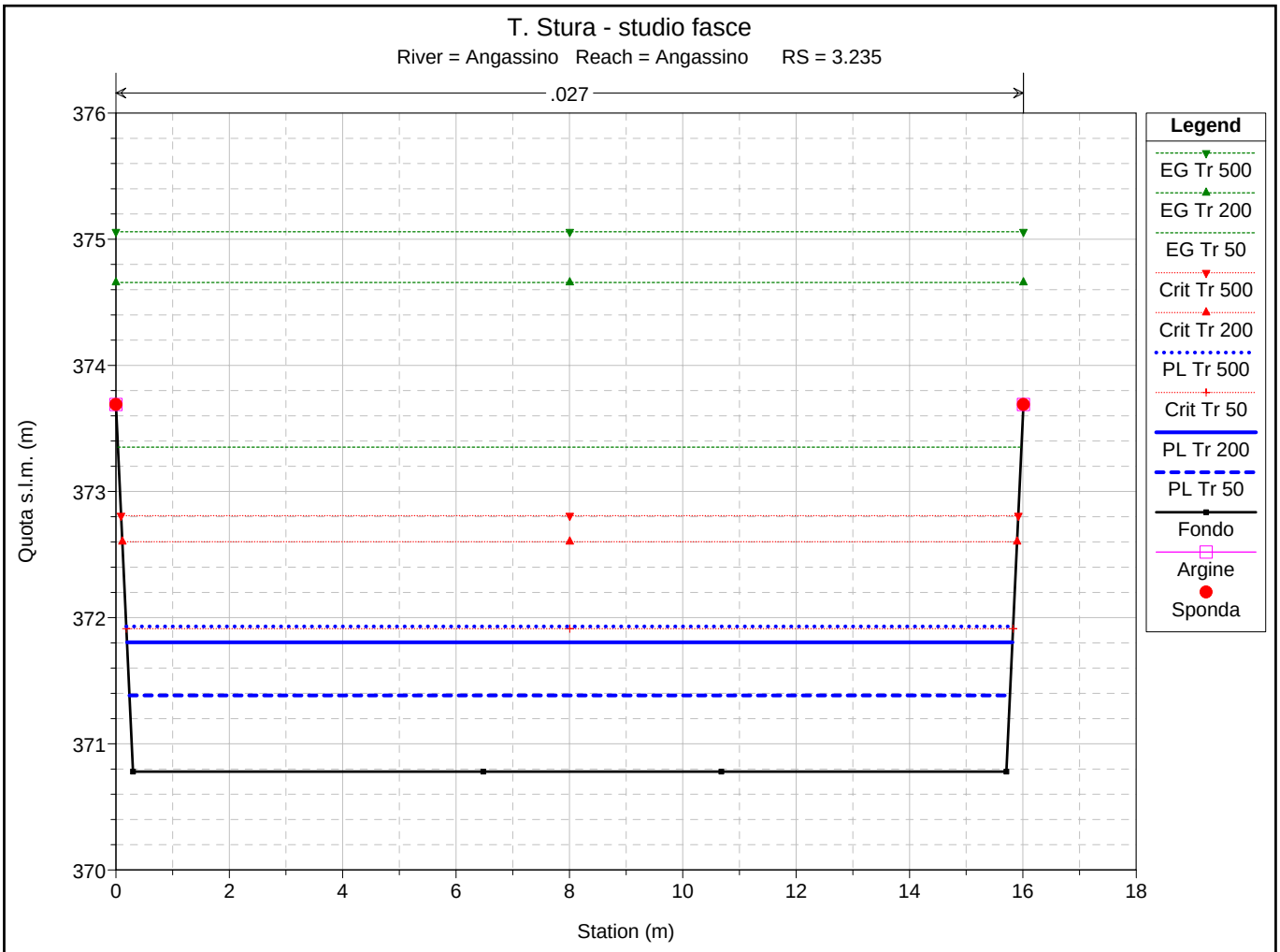
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda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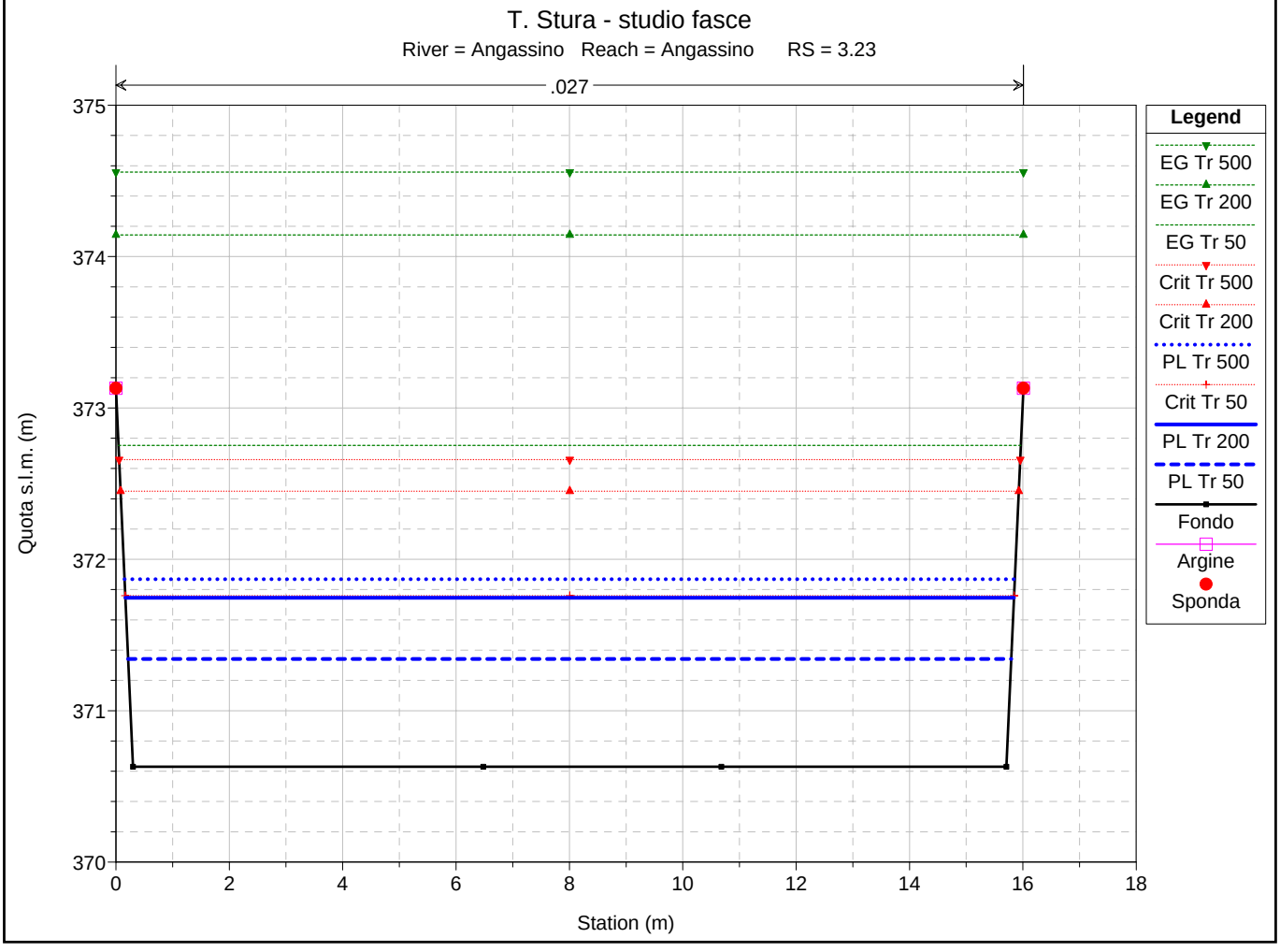
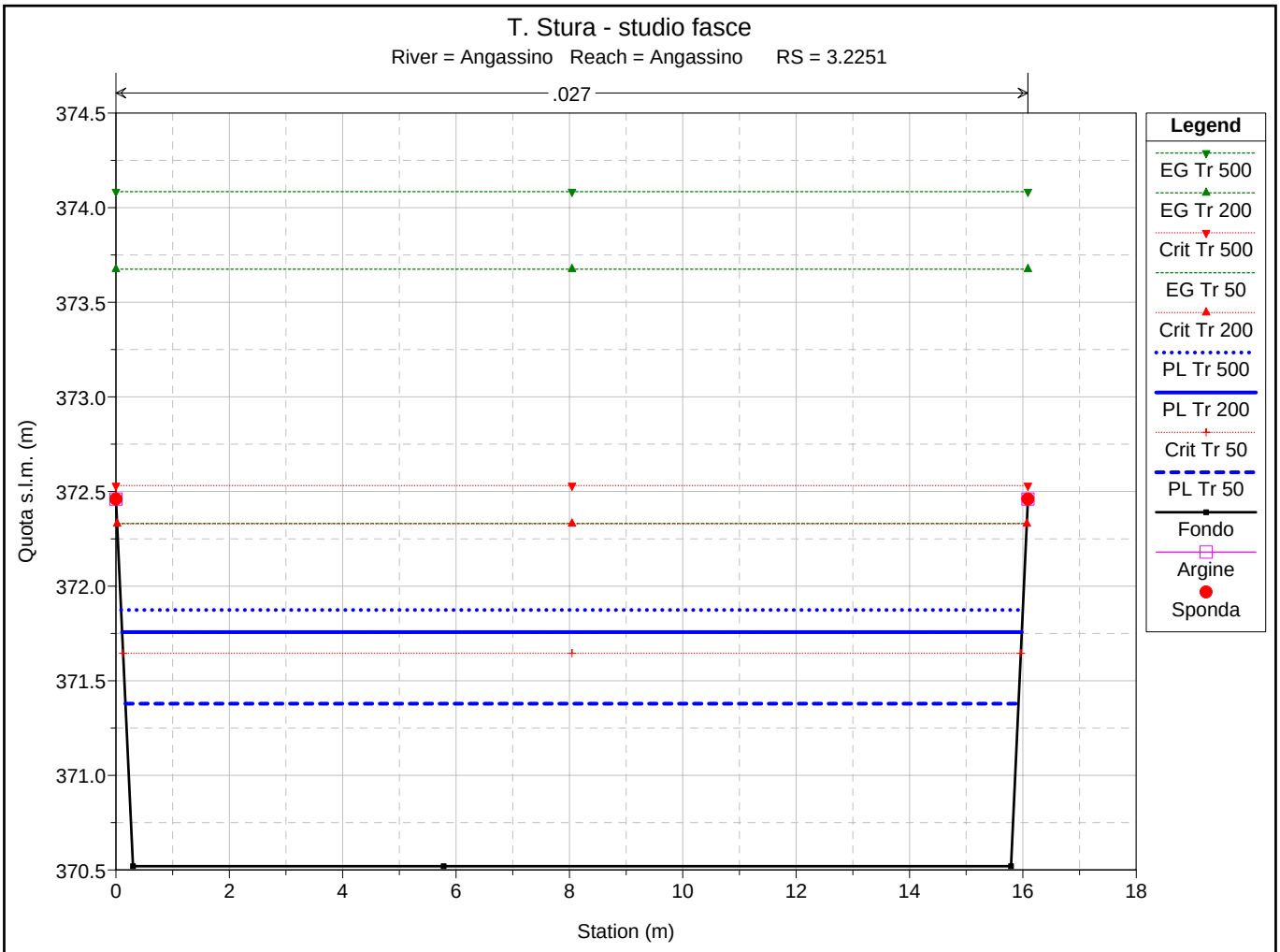
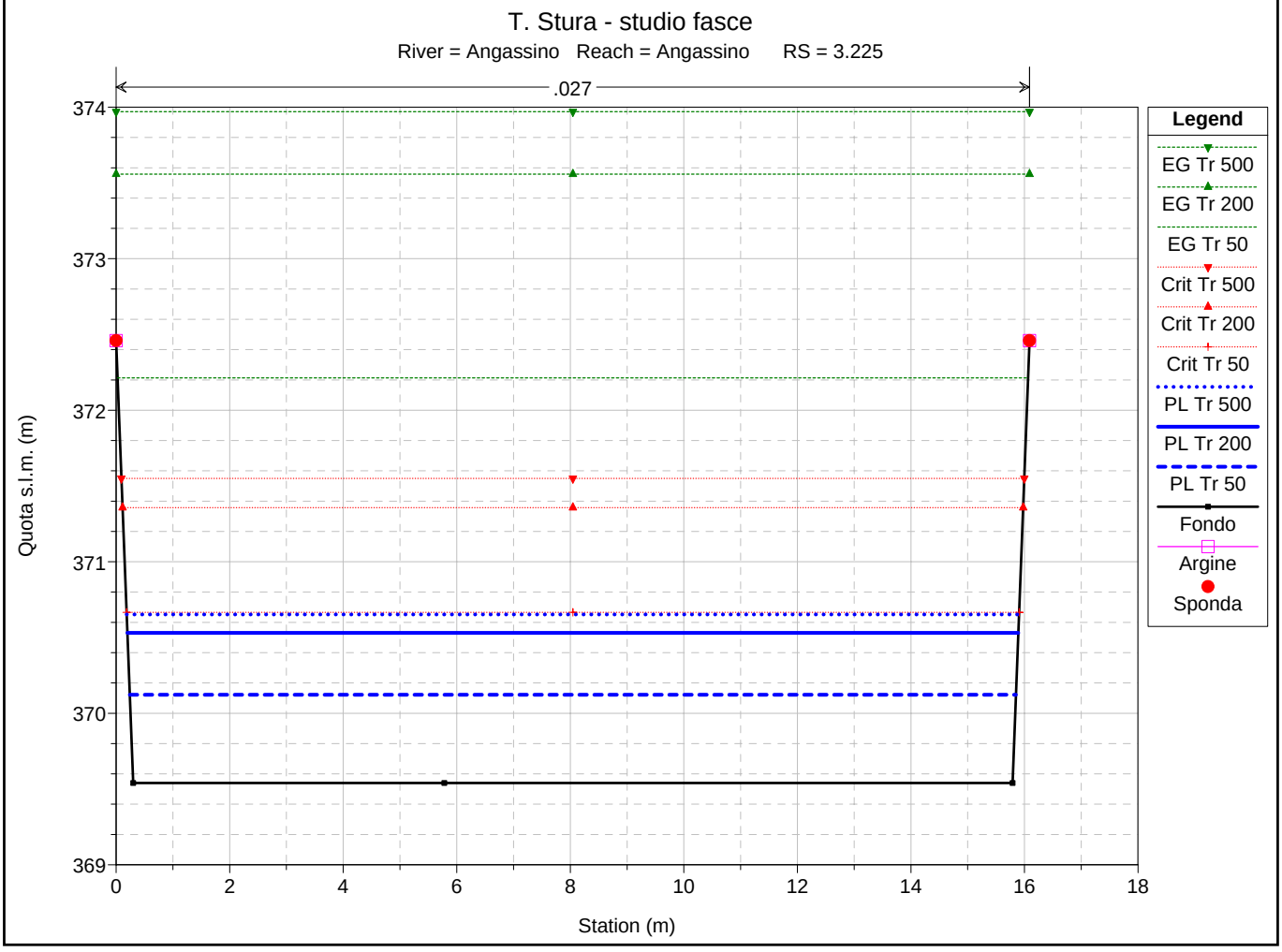
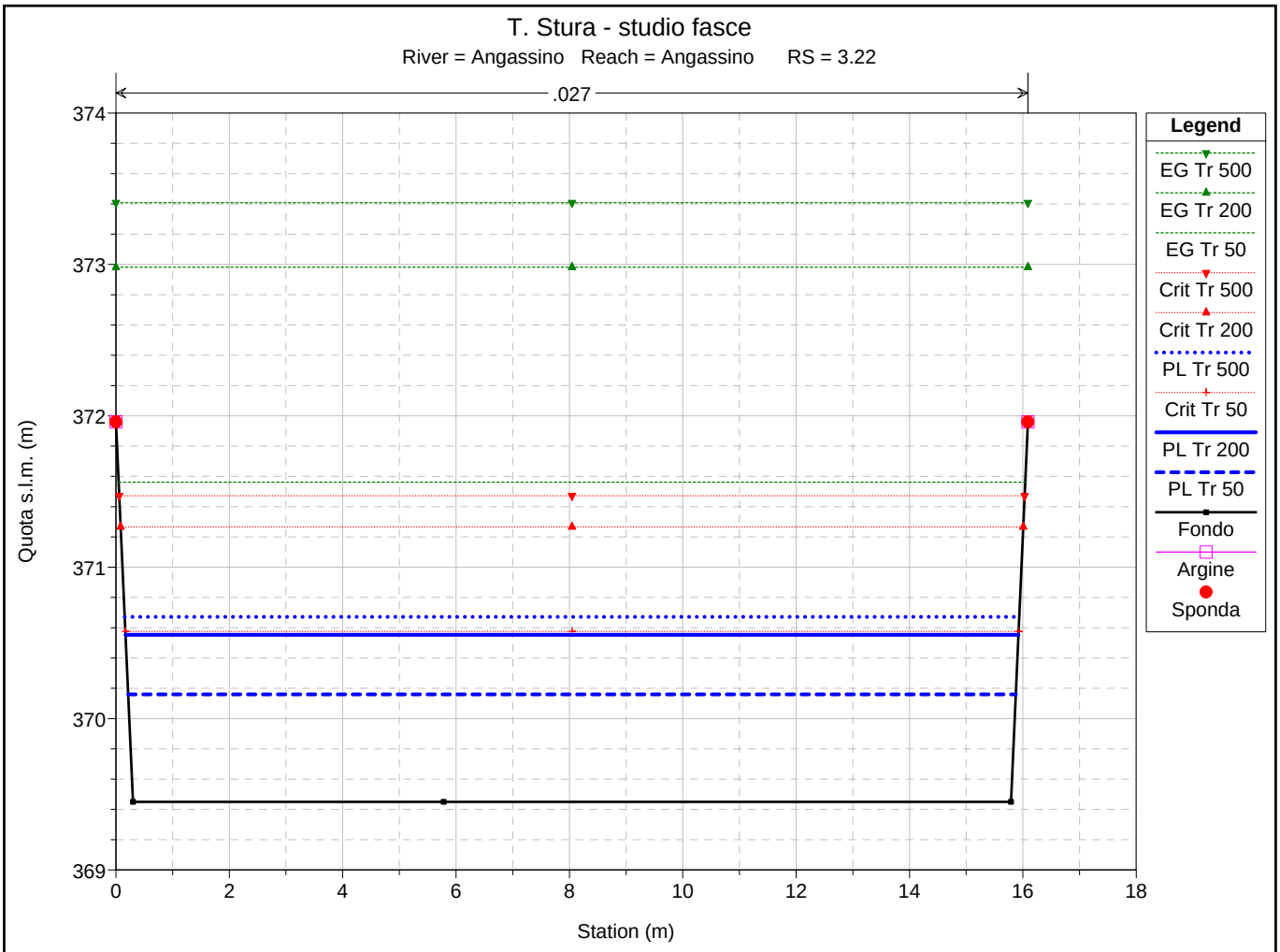
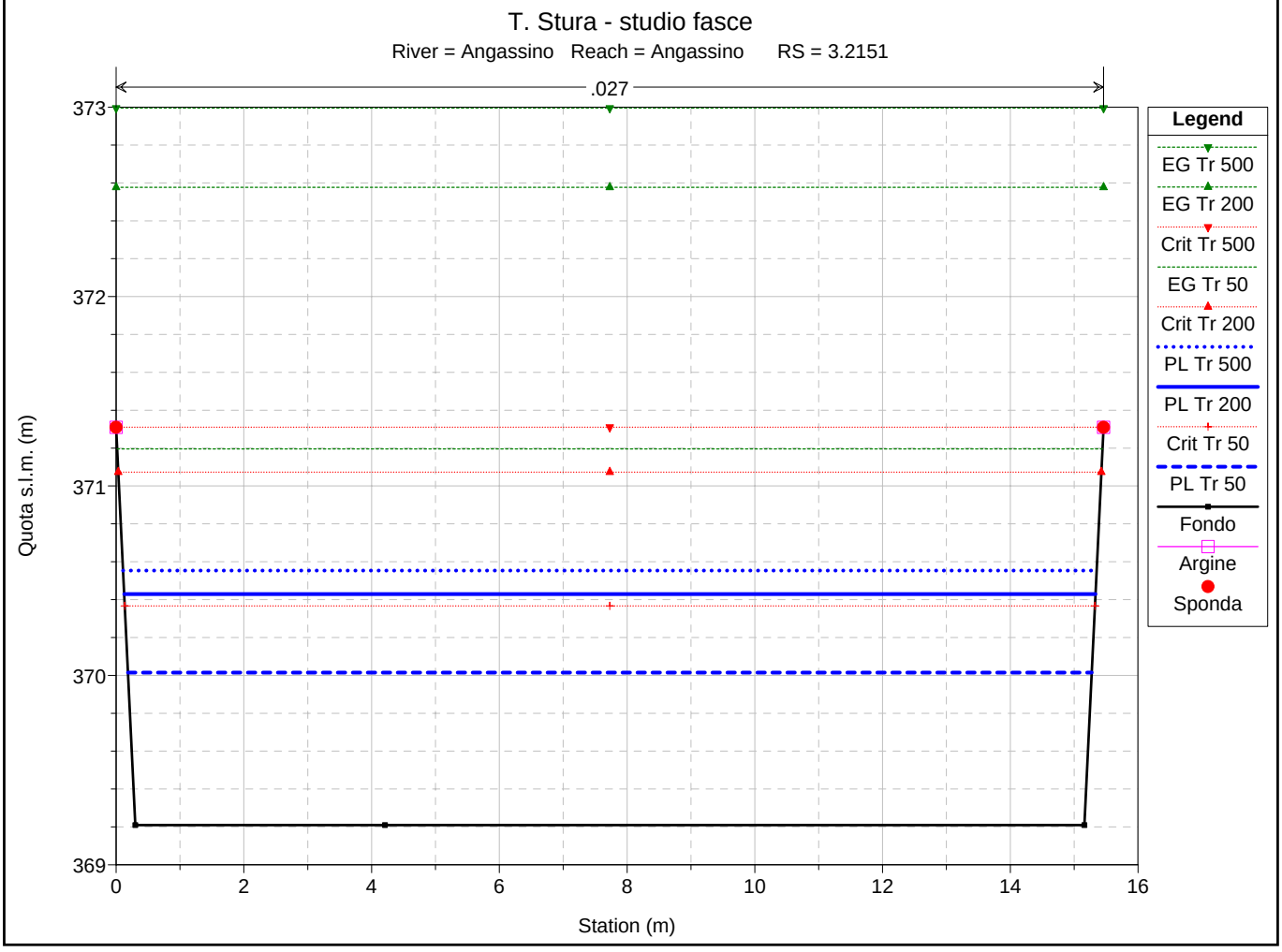
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

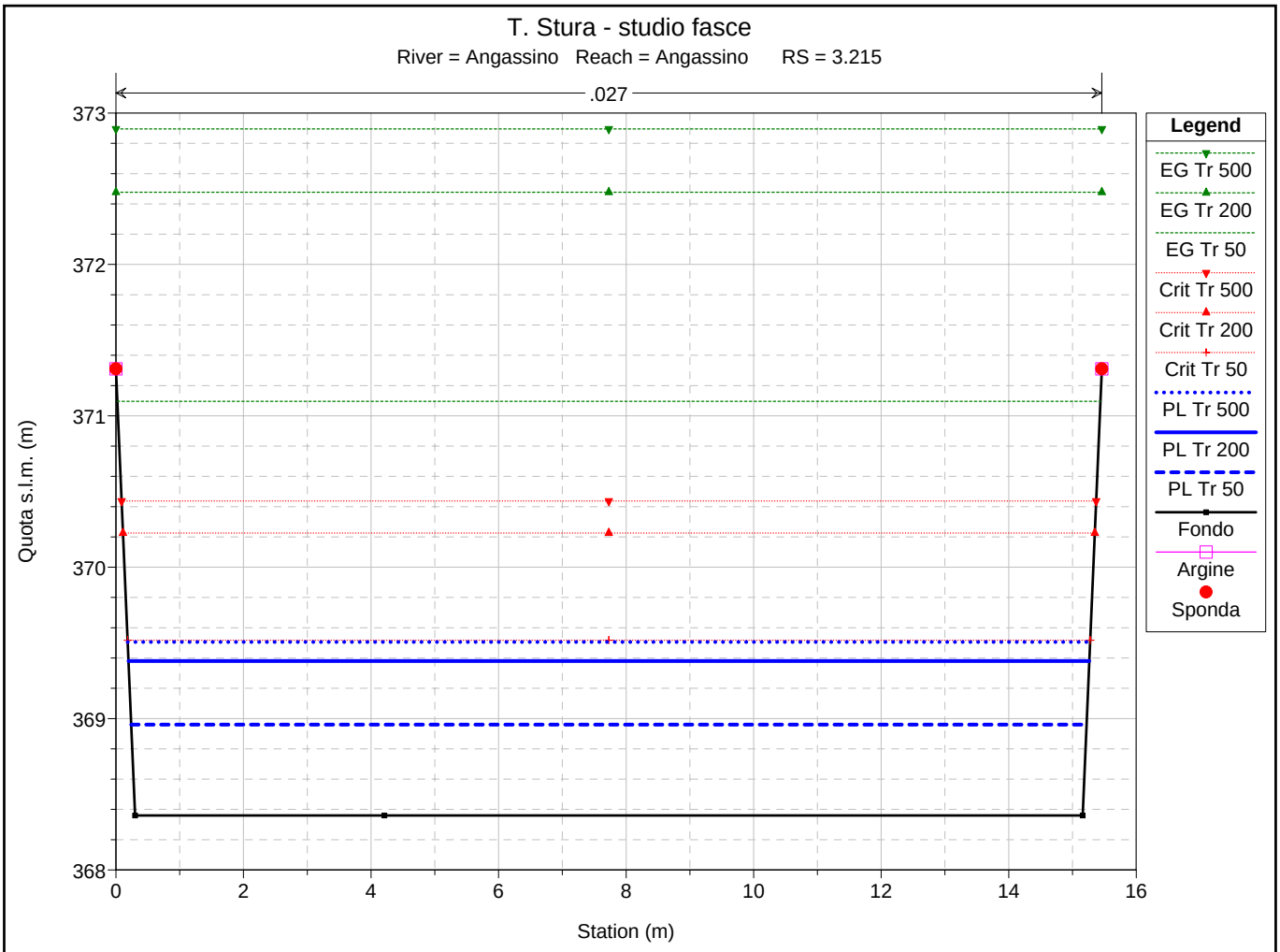

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.23
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

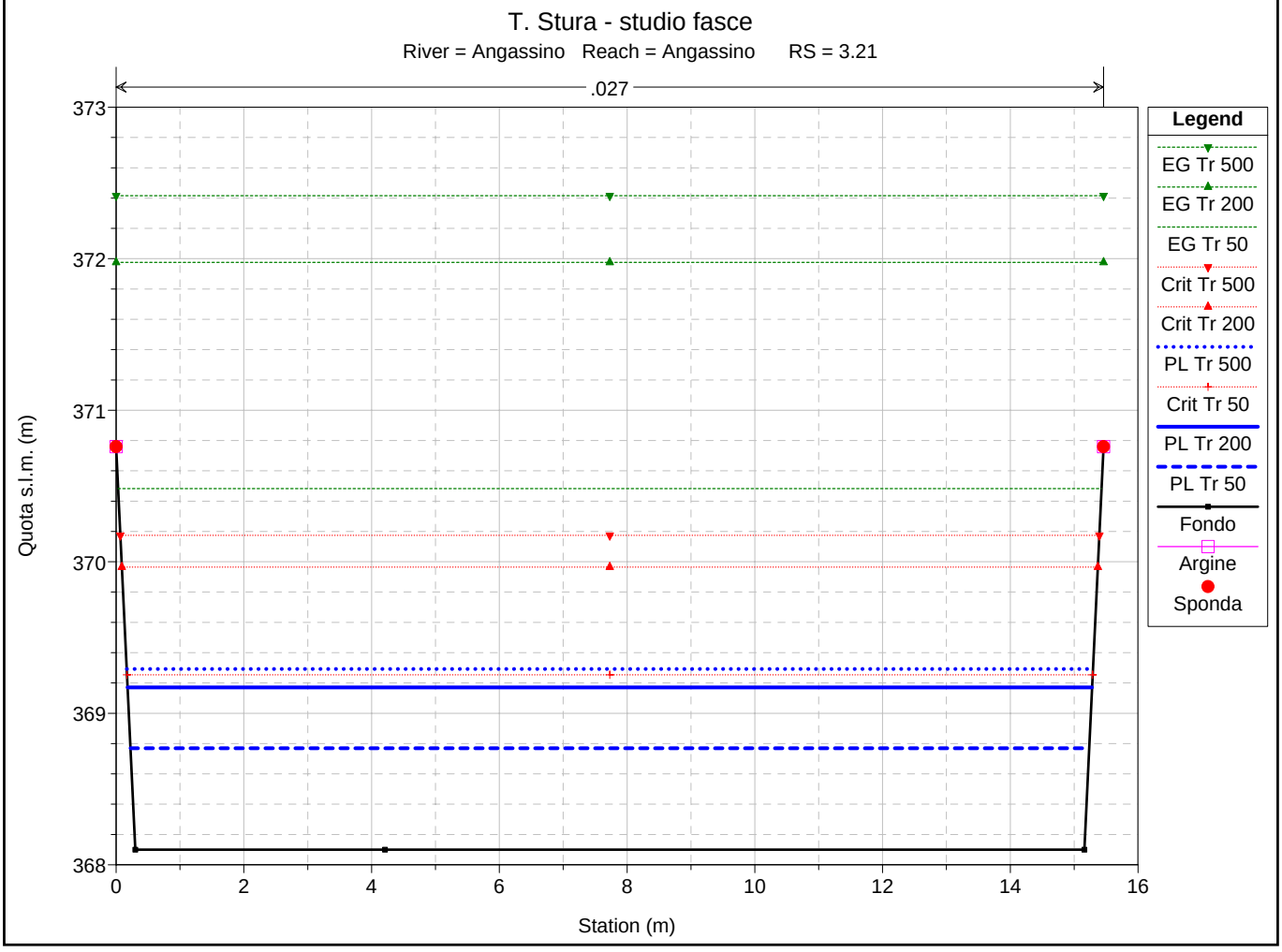

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.2251
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

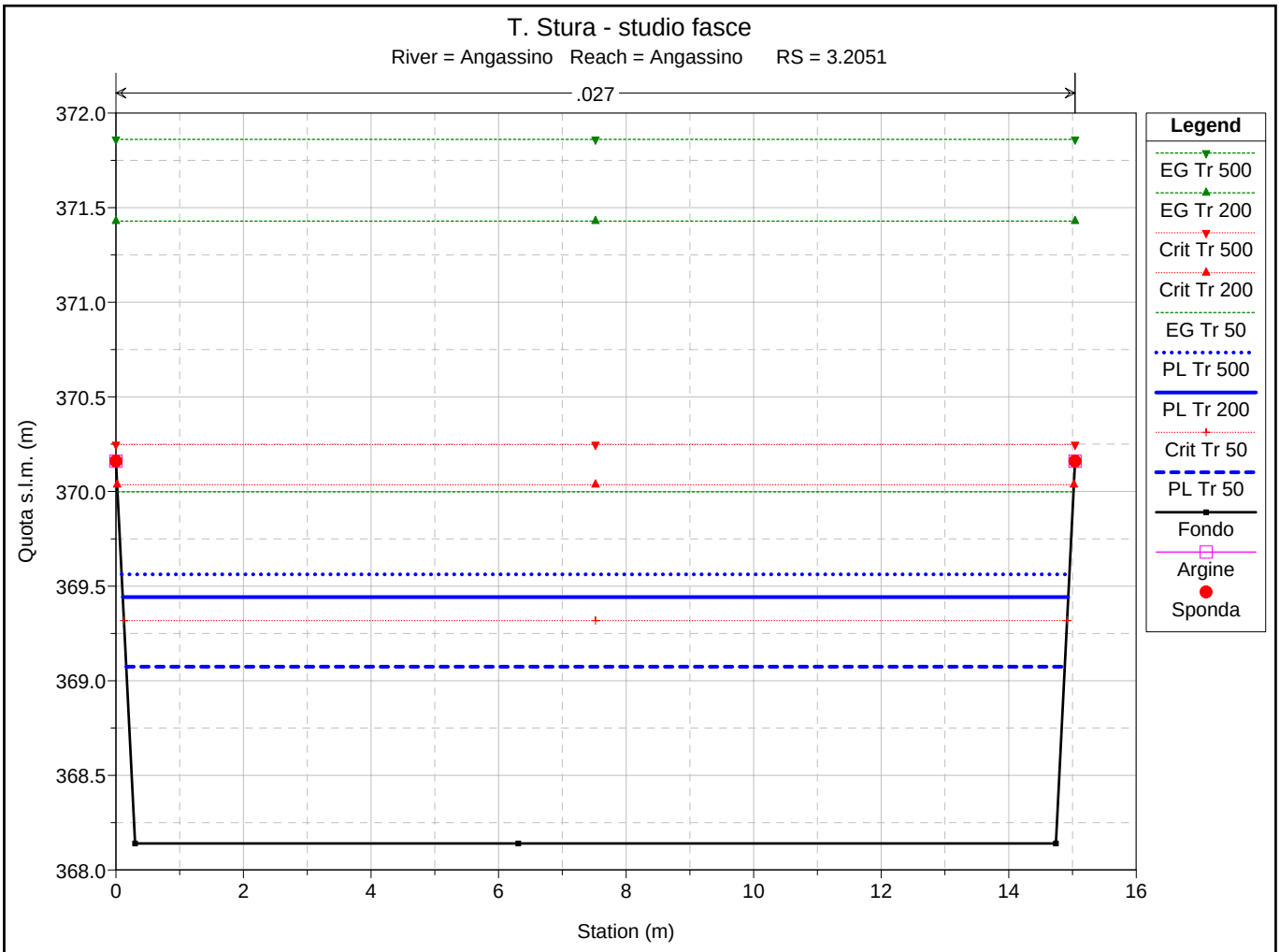

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.225
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

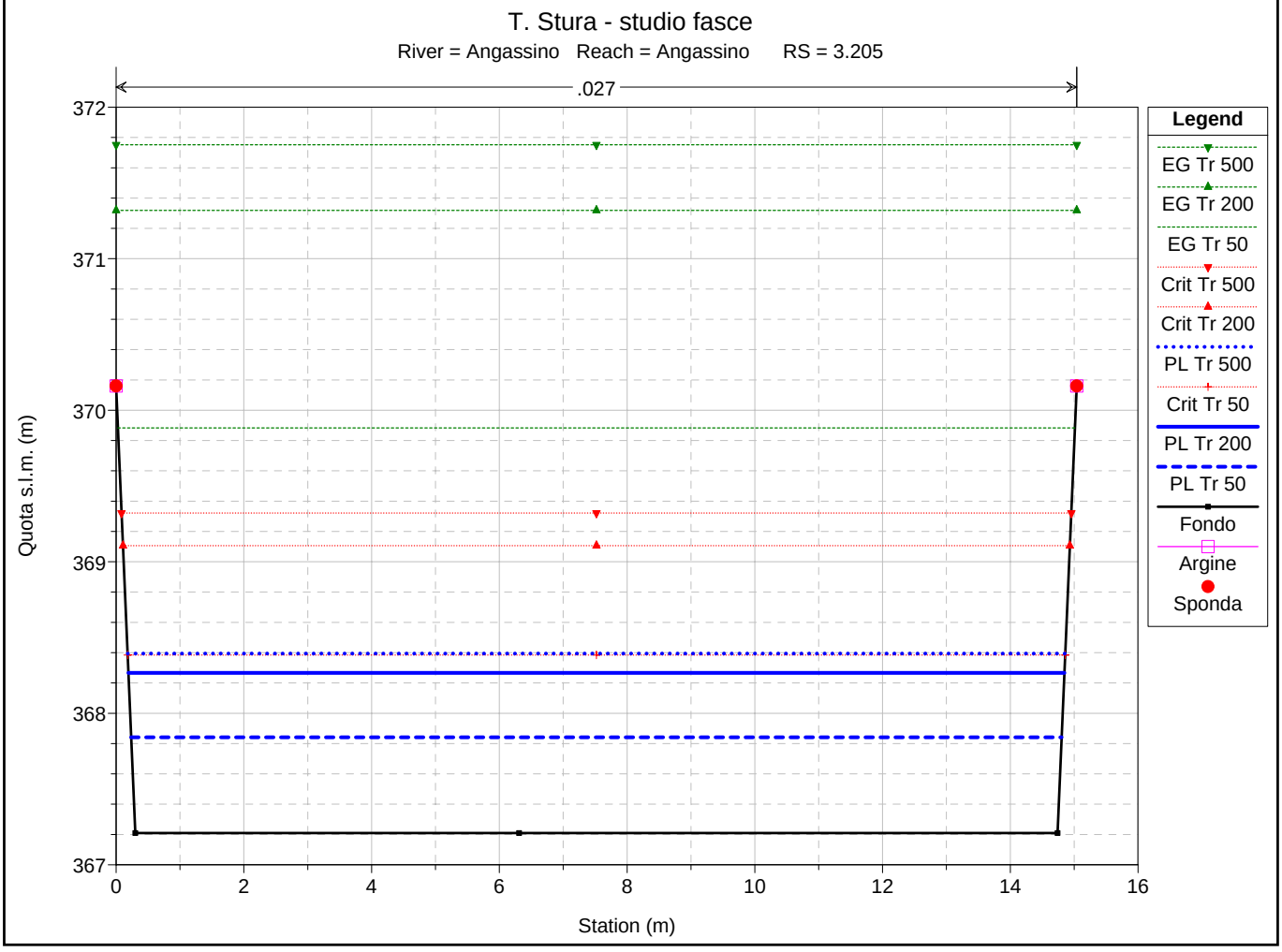

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.22
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

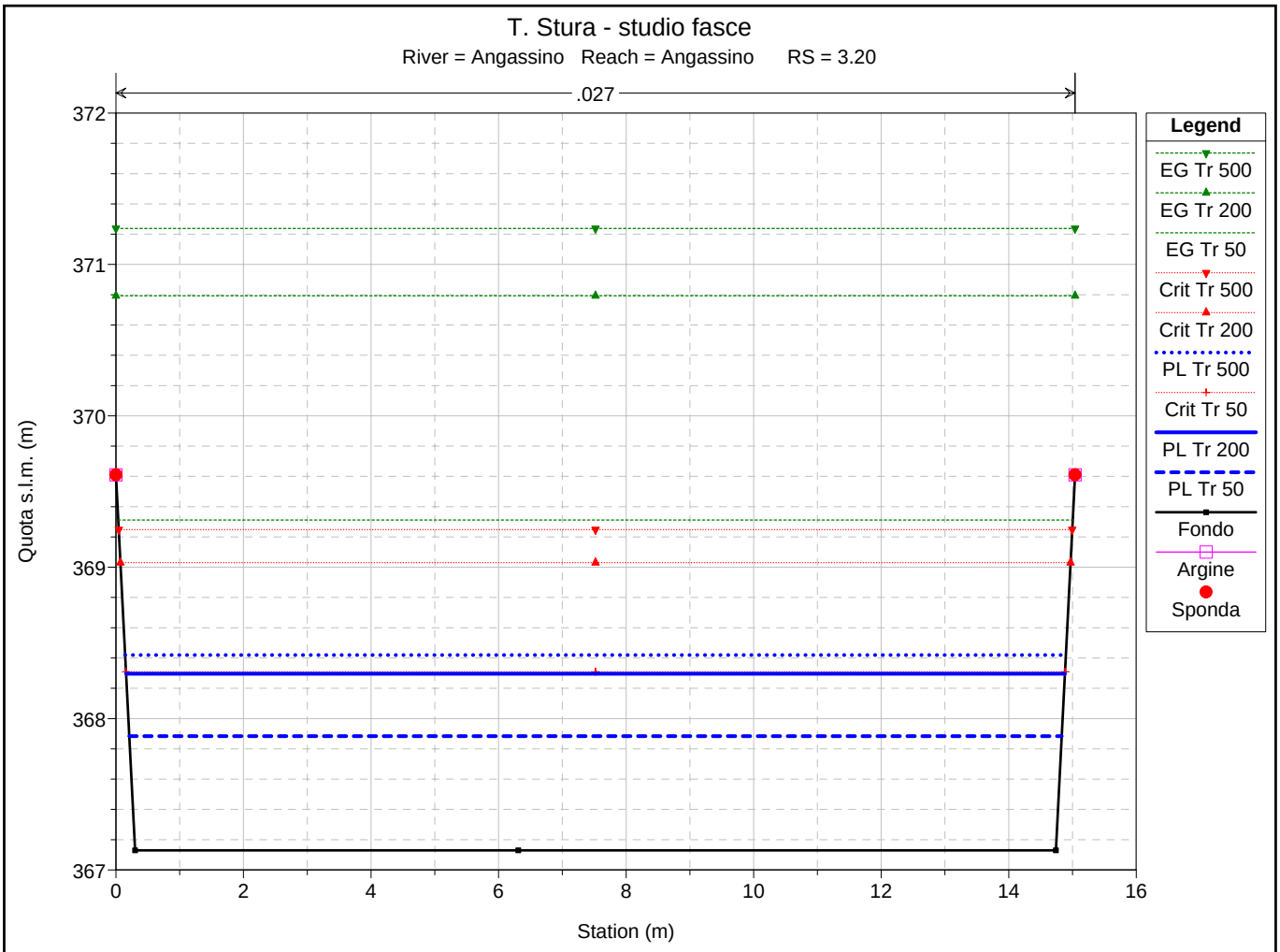

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.2151
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

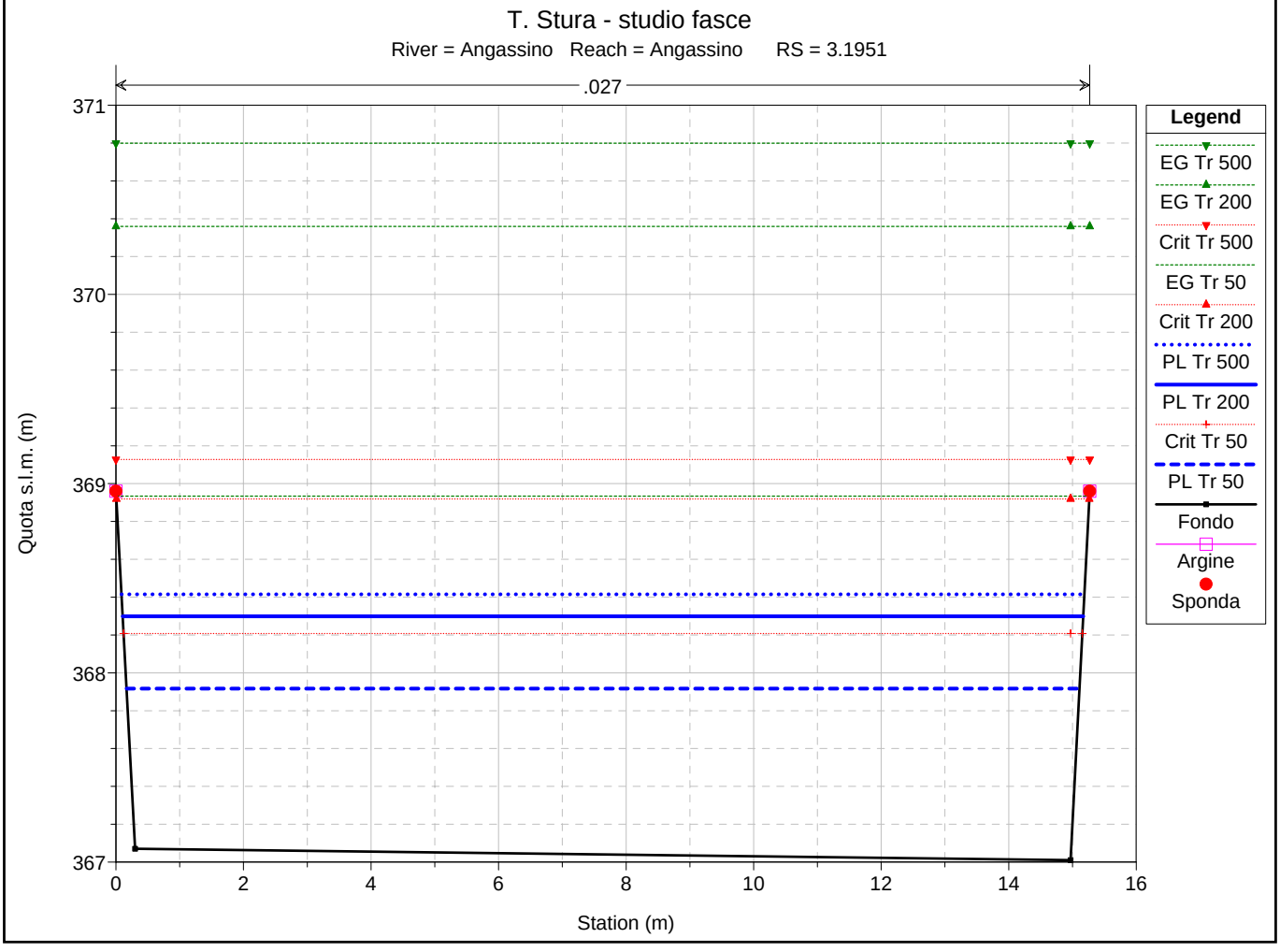

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.215
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

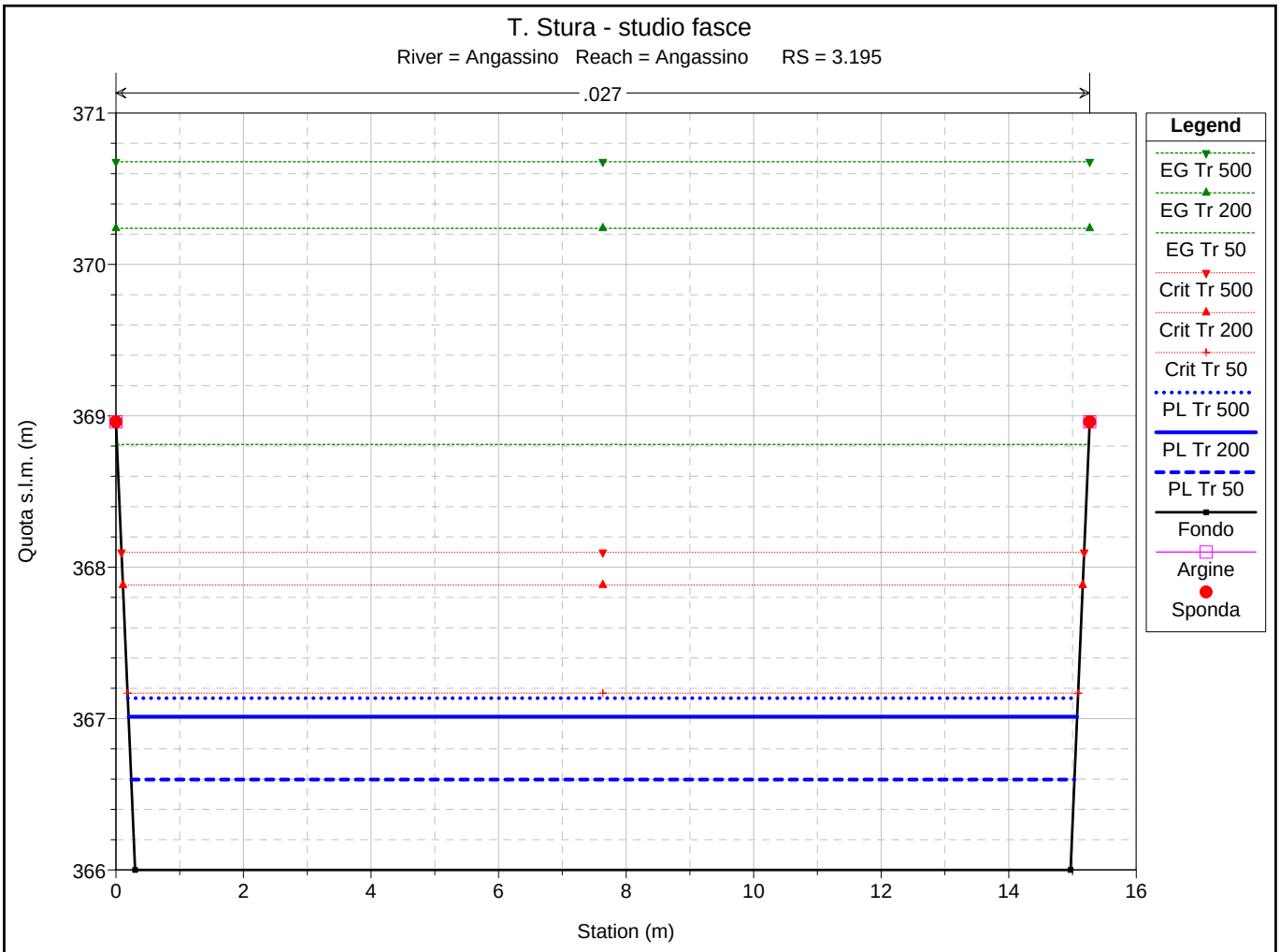

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.21
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

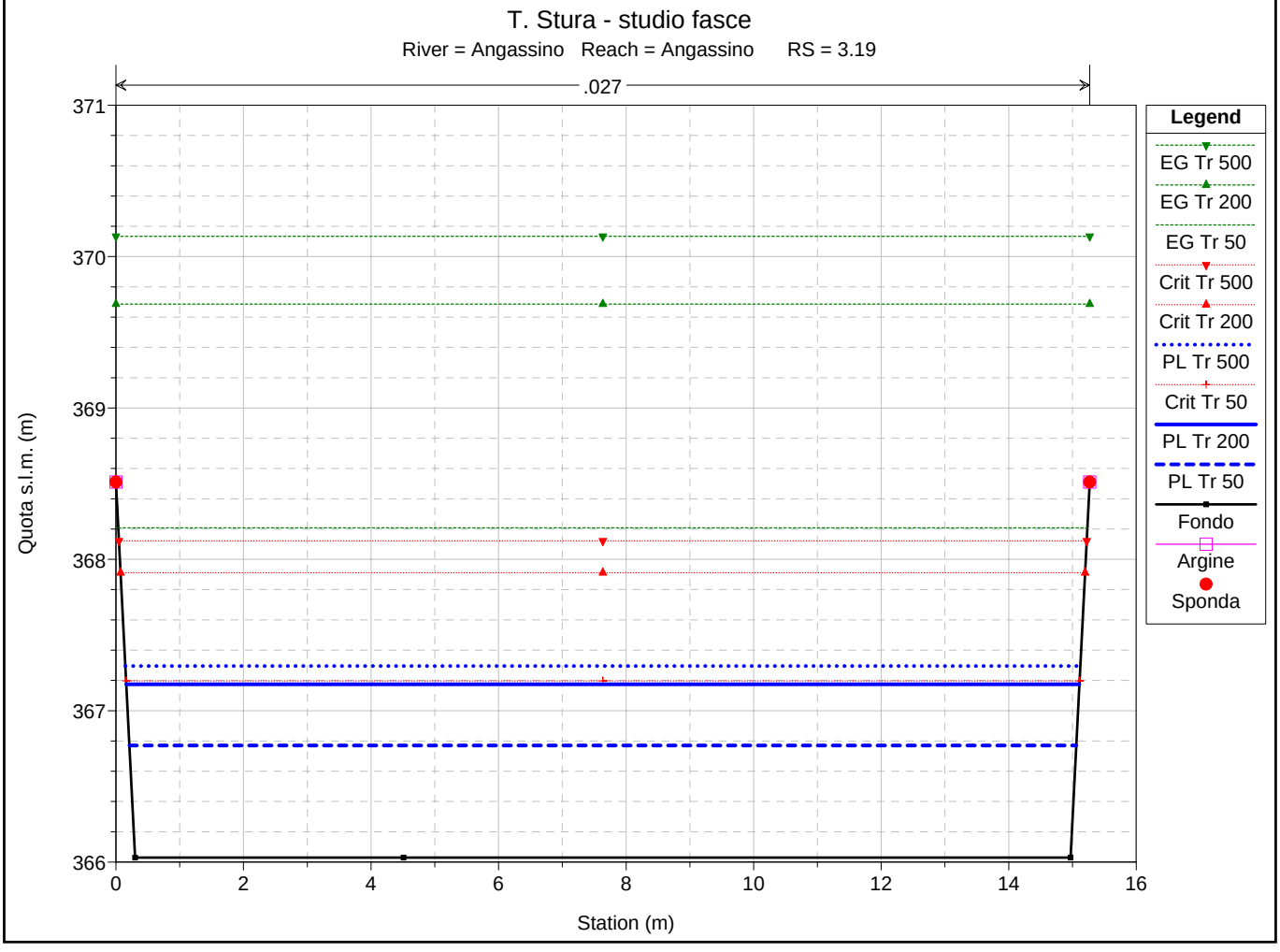

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.2051
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

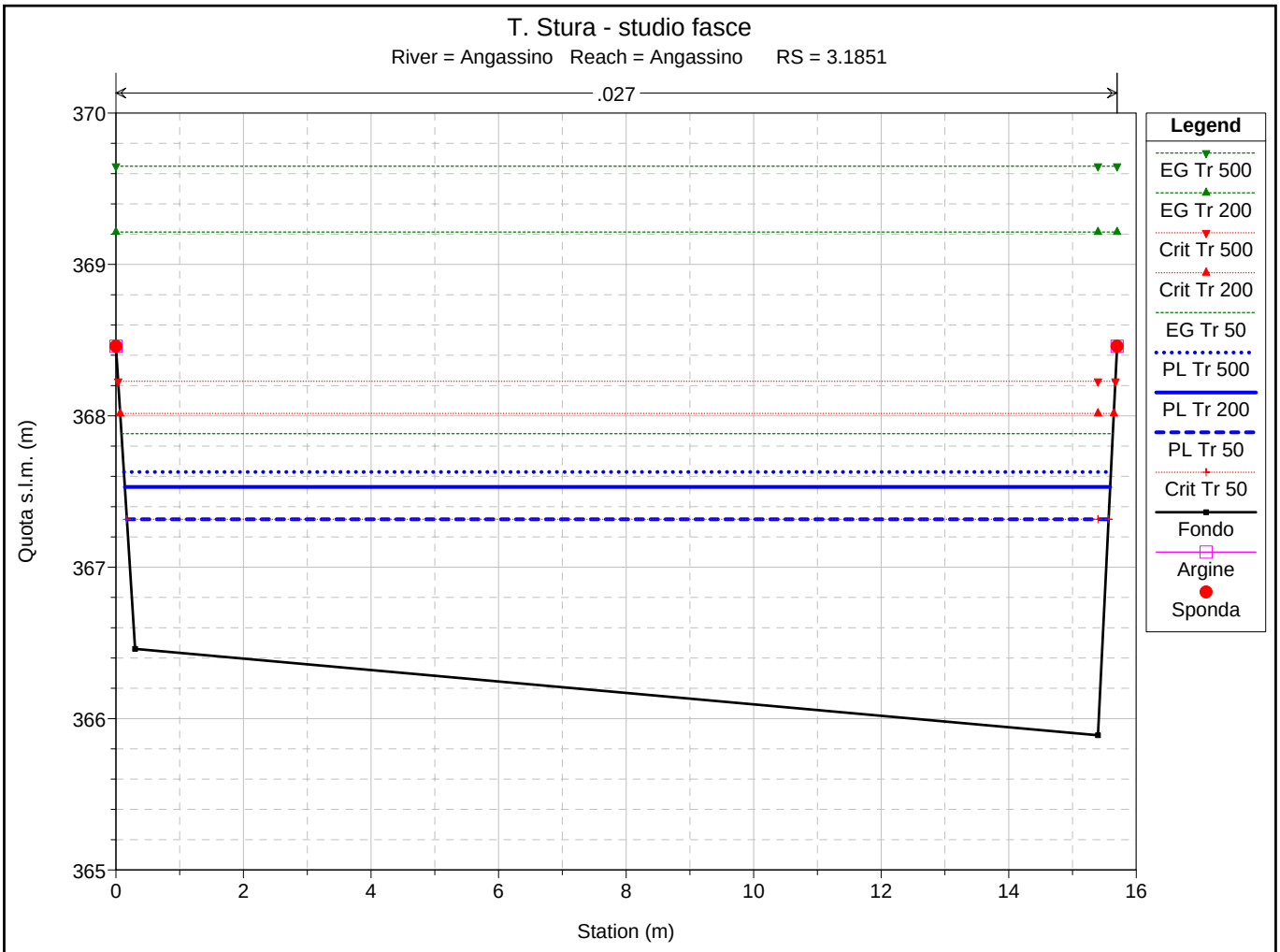

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.205
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

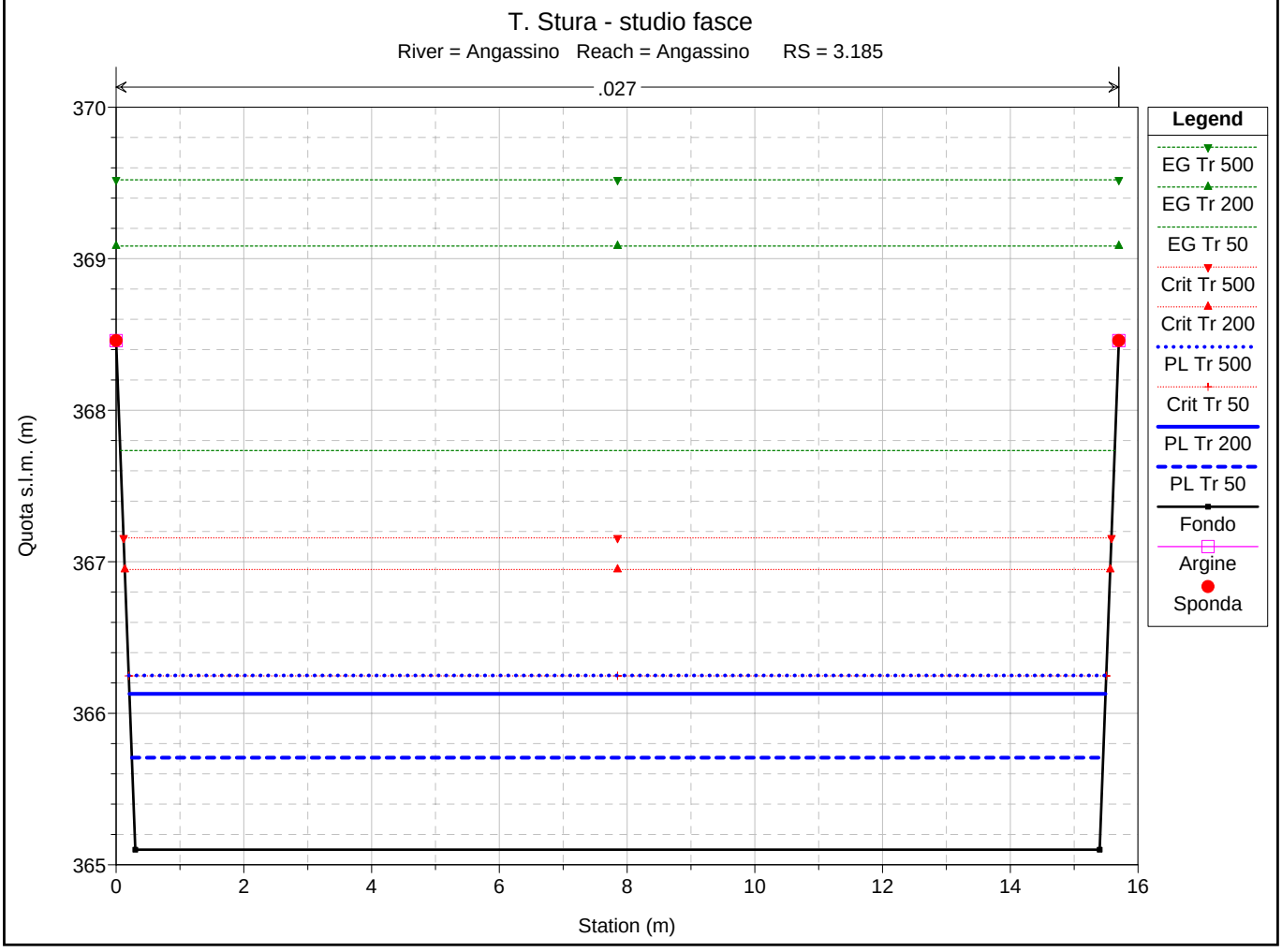

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.20
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

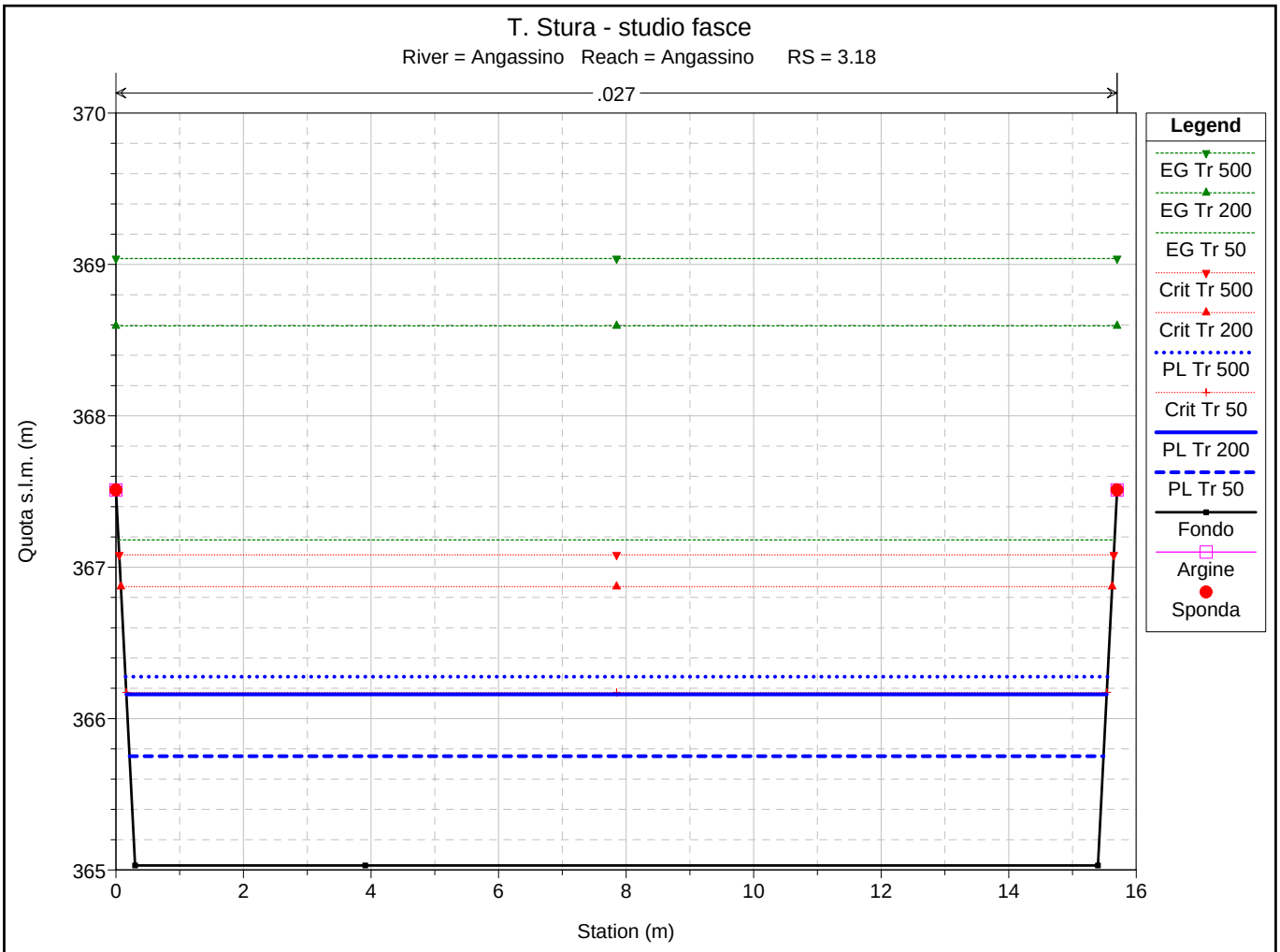

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.1951
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

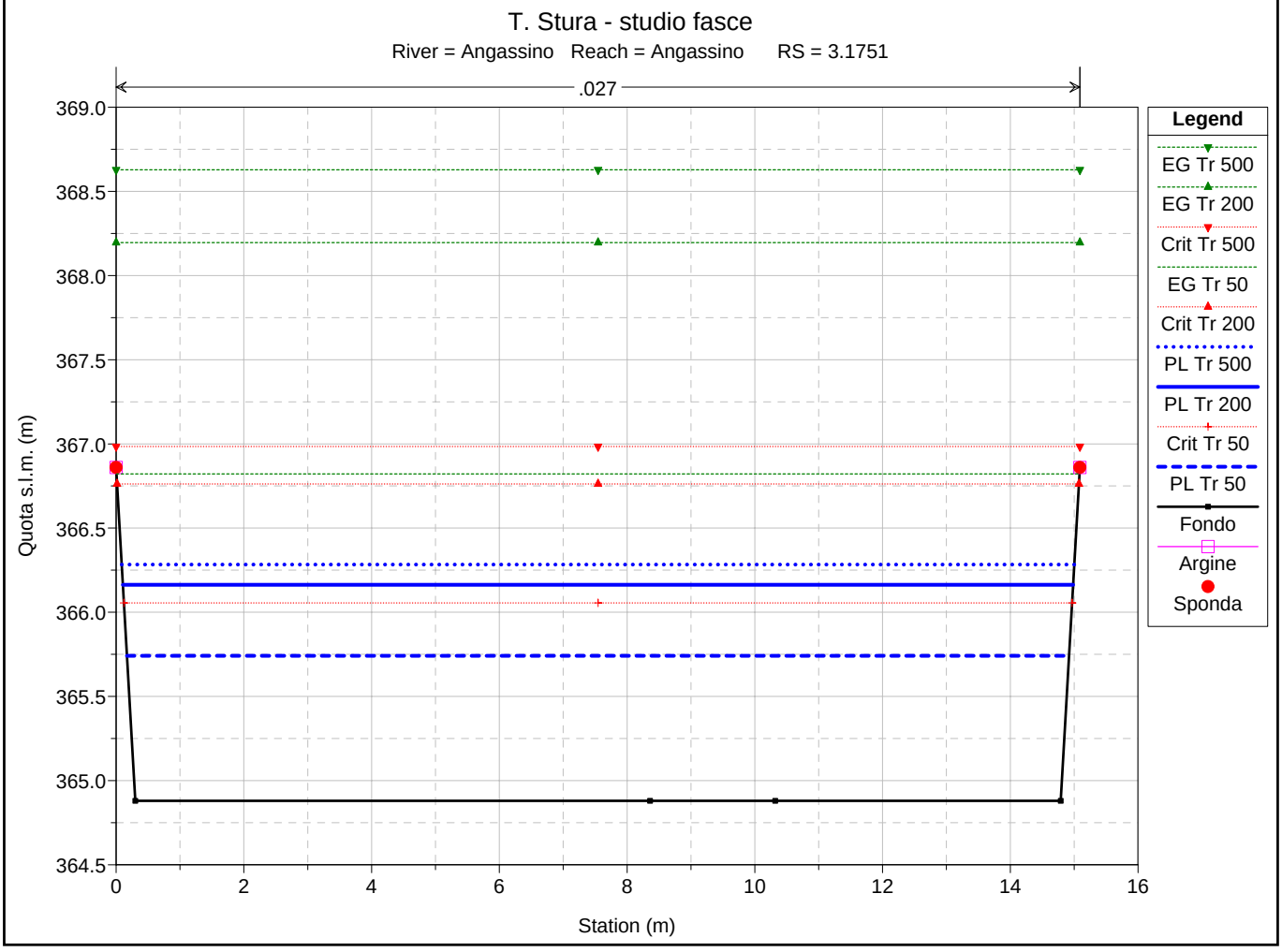

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.195
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

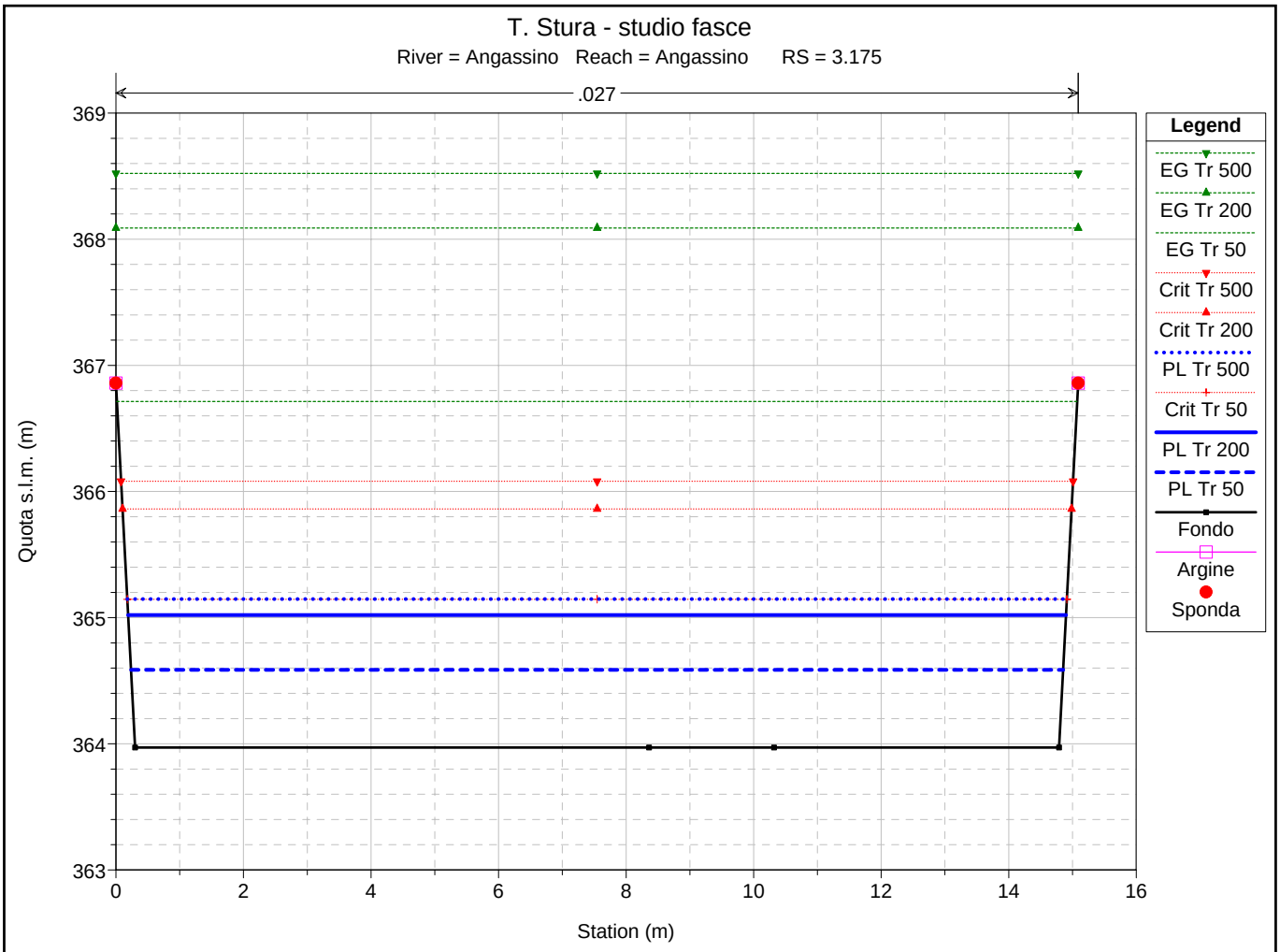

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.19
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

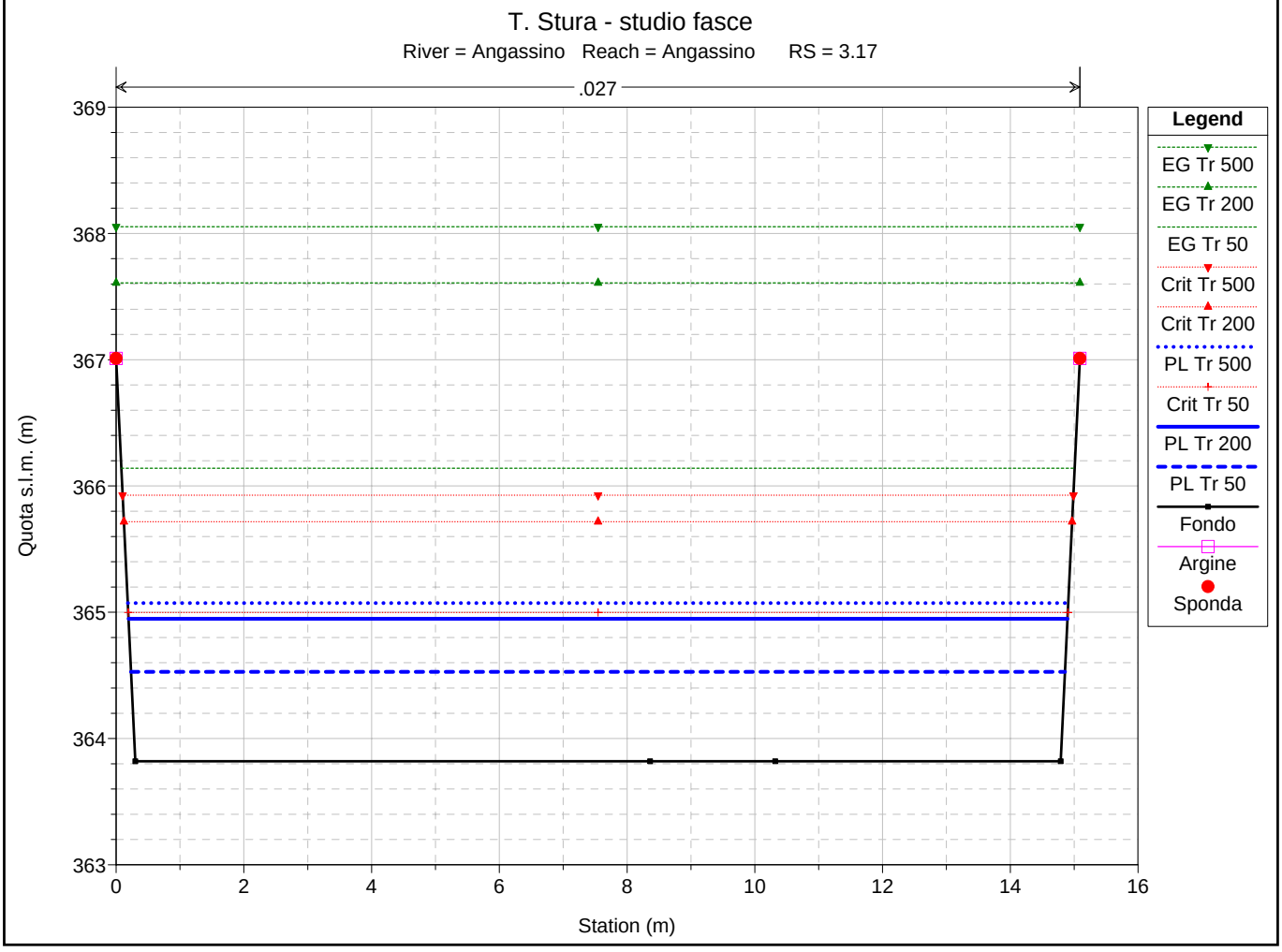

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.1851
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

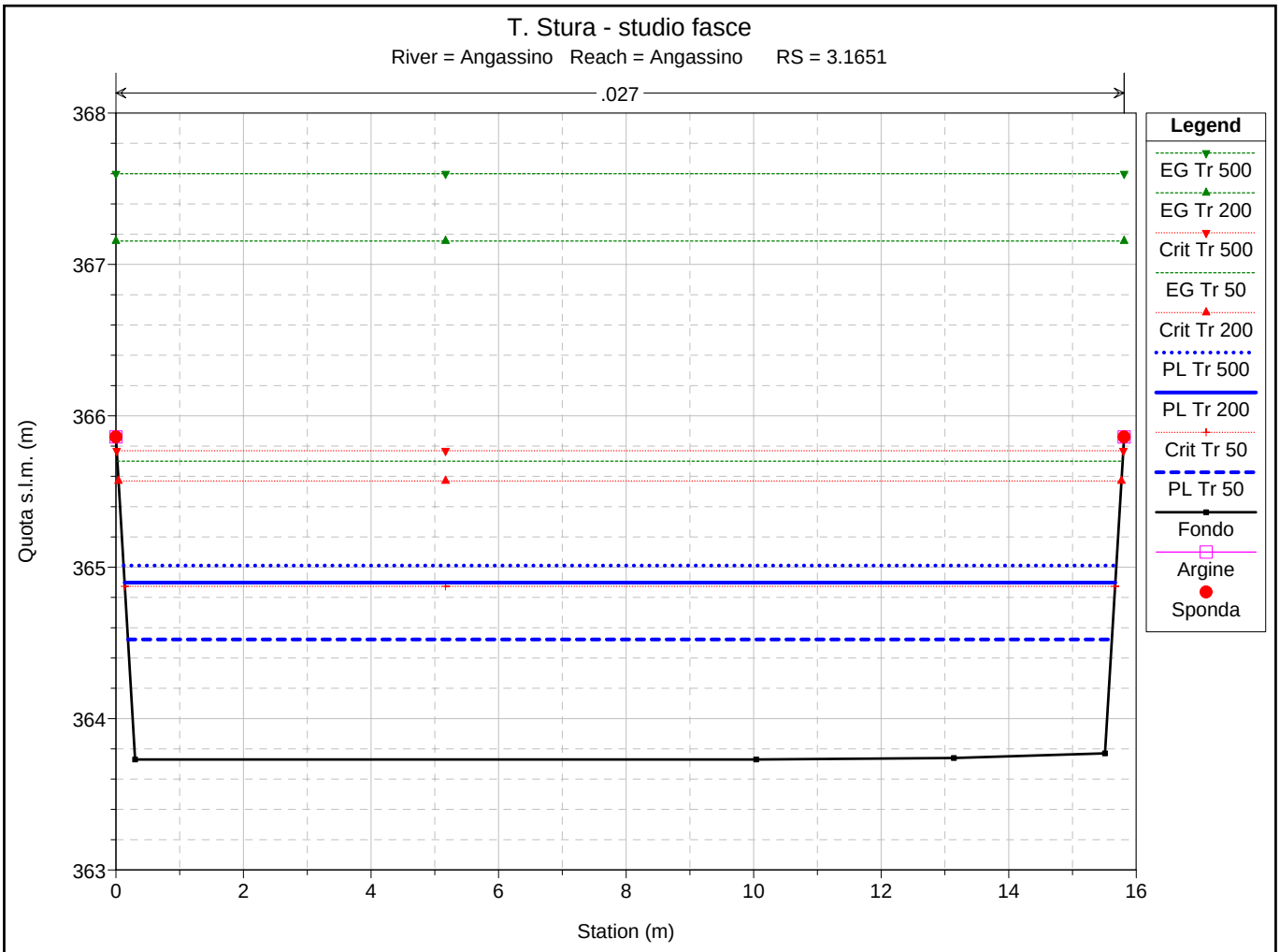

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.185
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

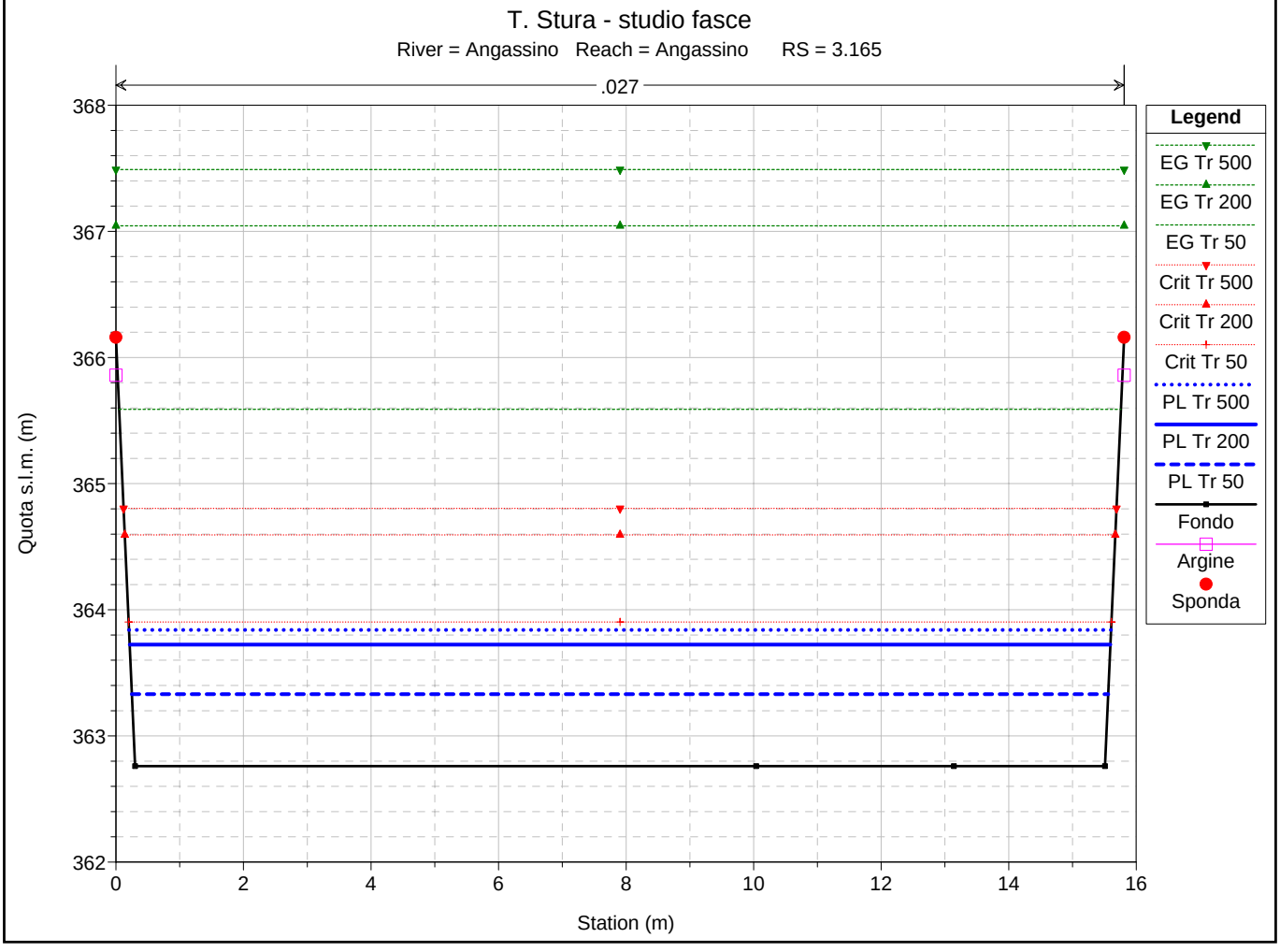

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.18
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

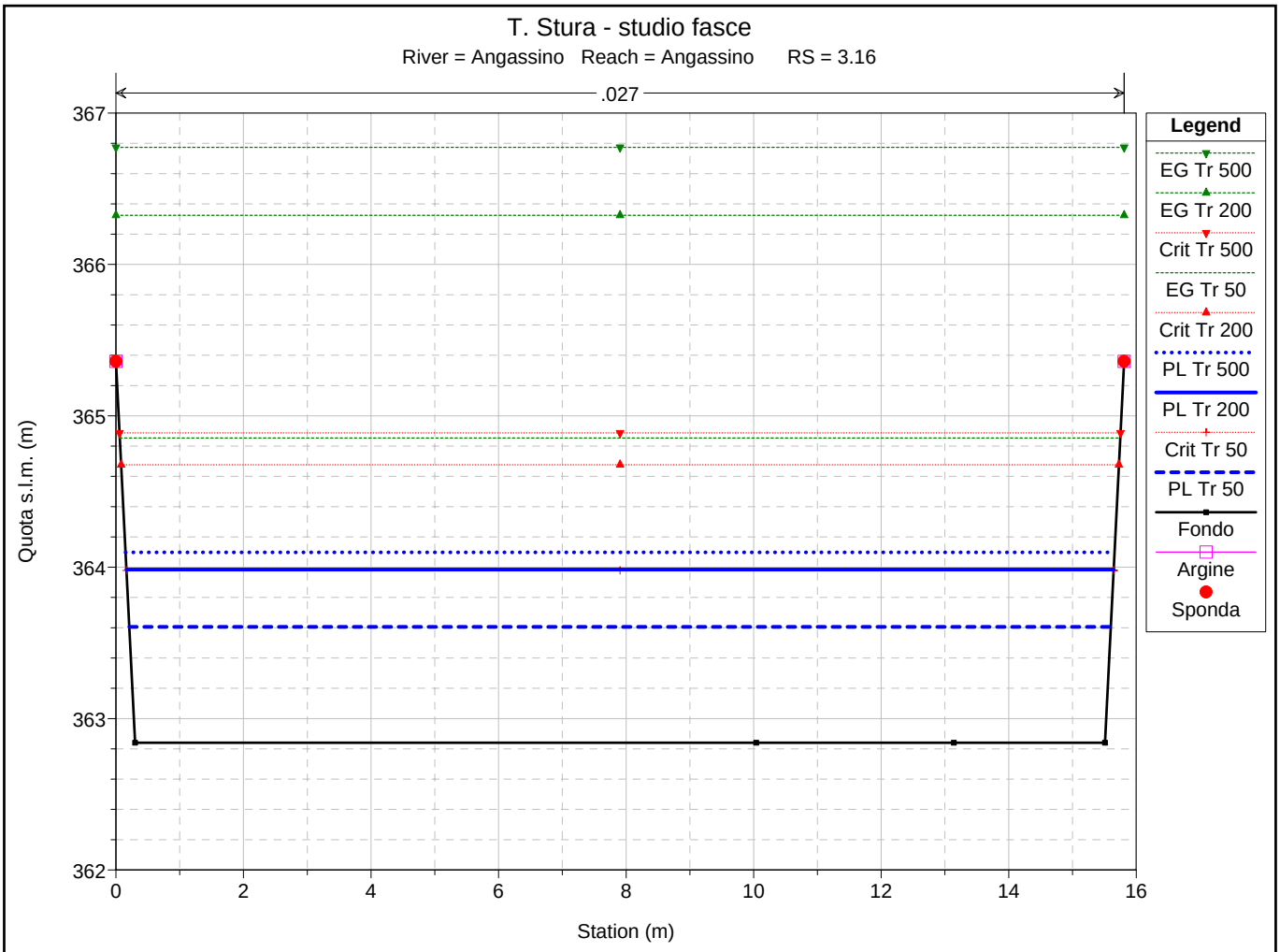

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.1751
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

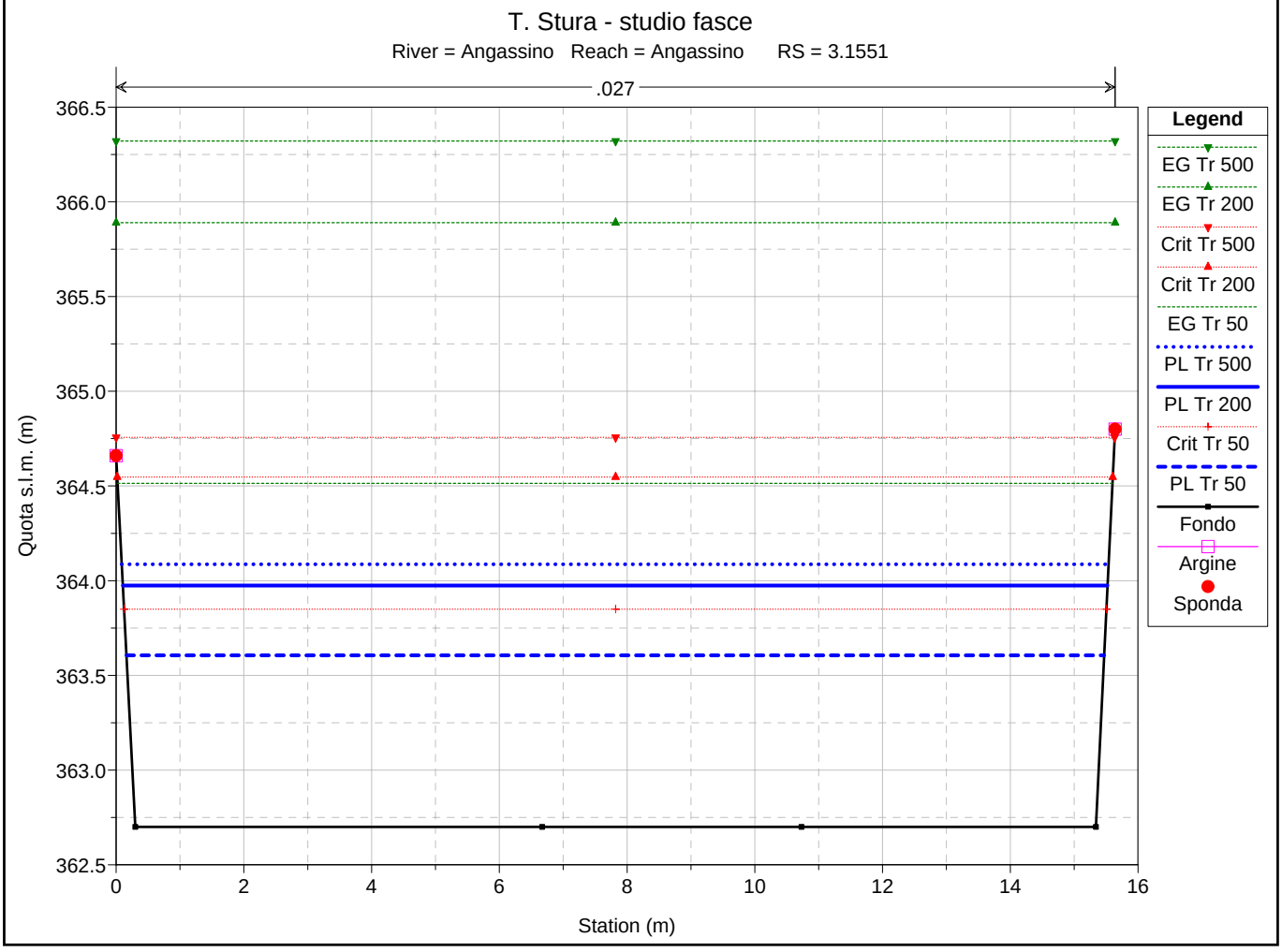

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.175
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

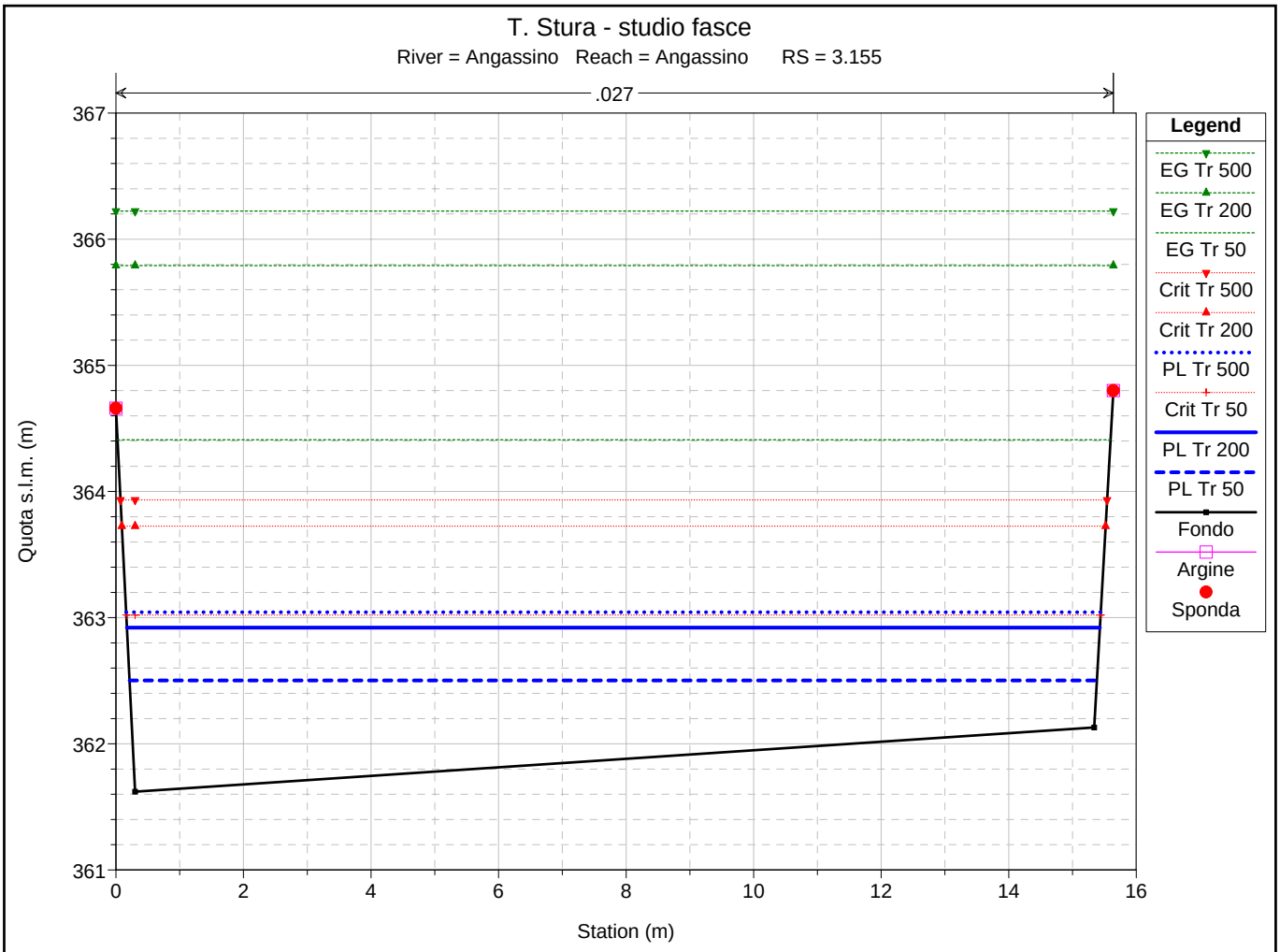

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.17
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

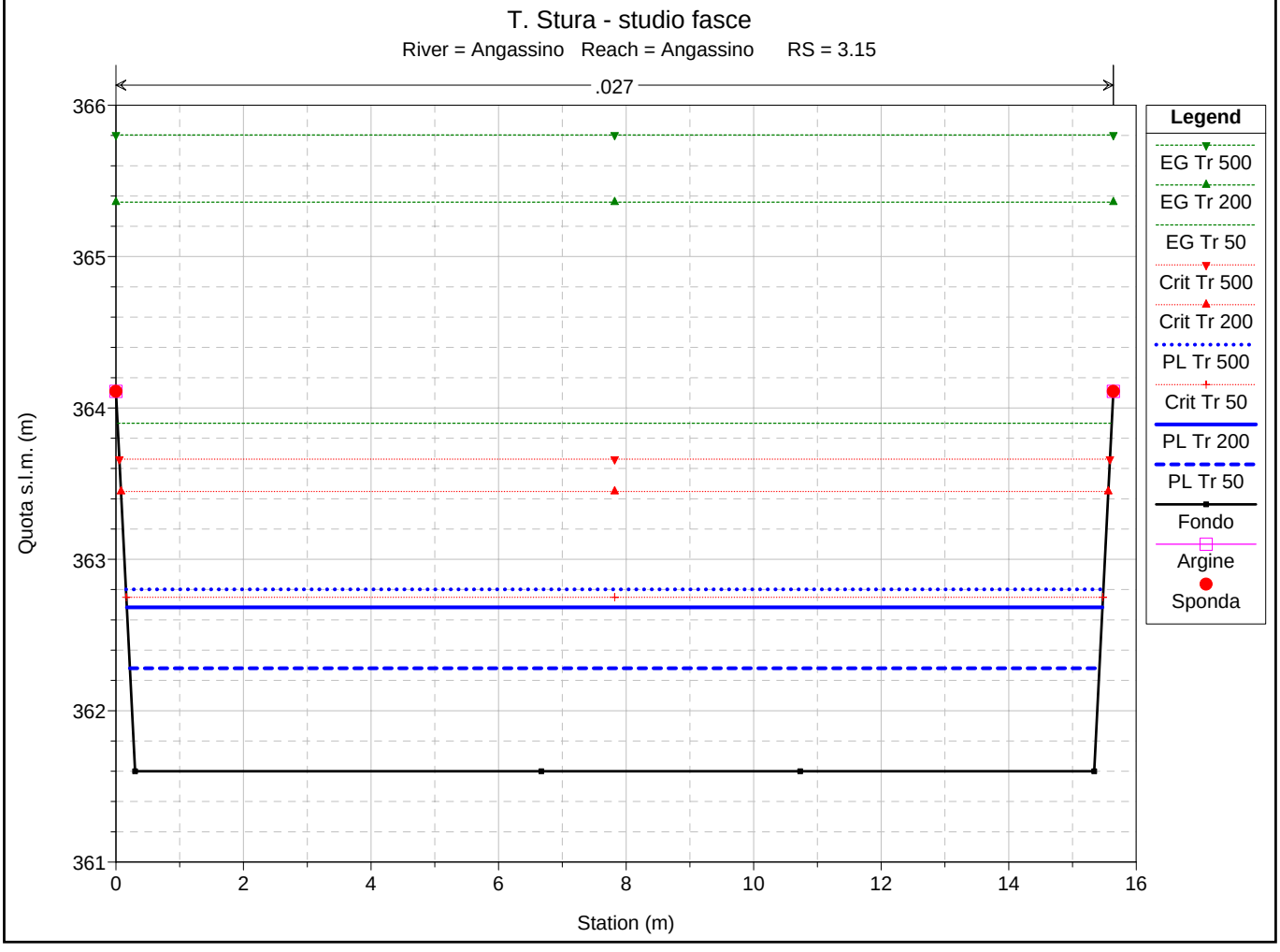

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.1651
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

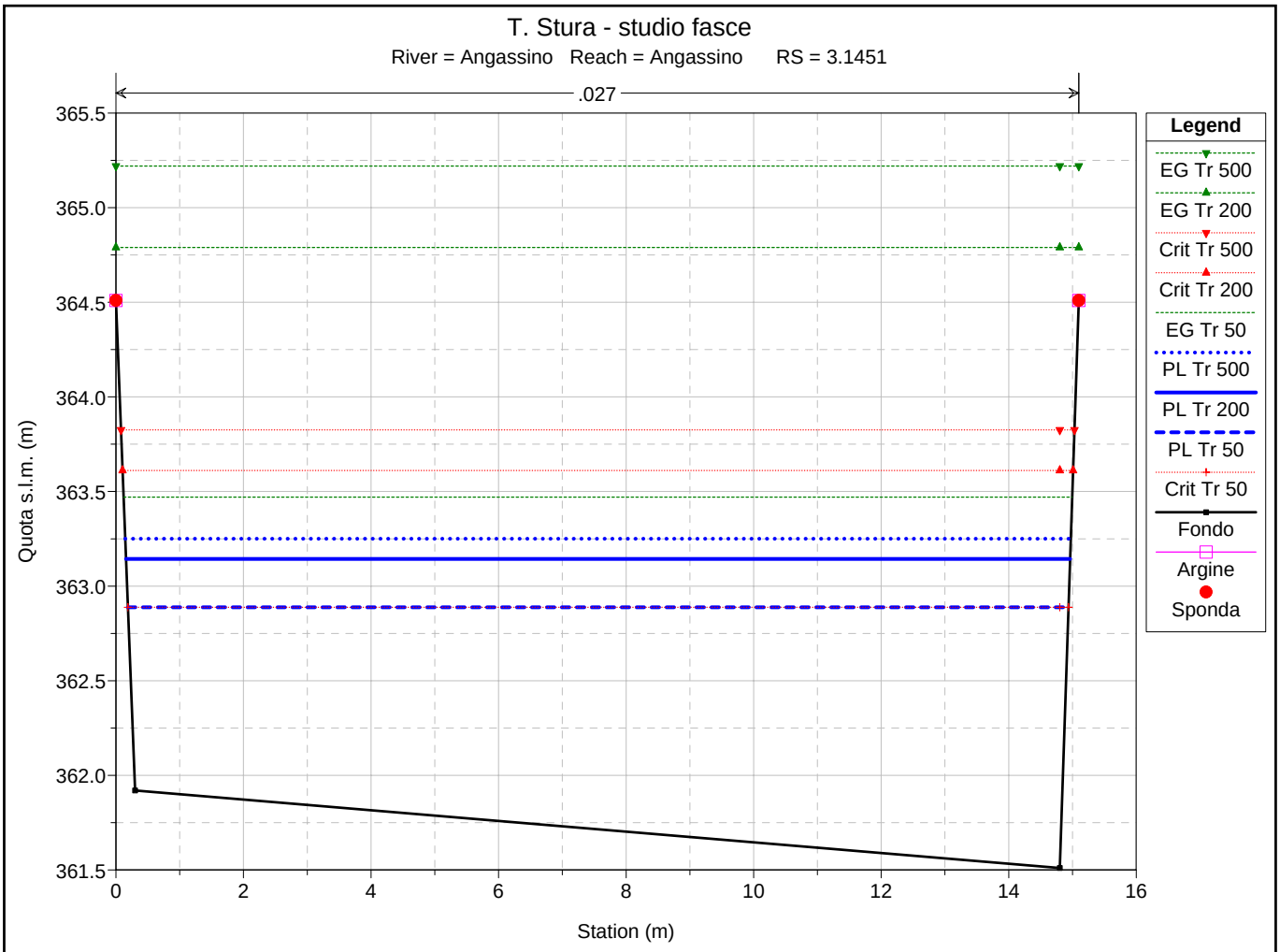

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.165
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

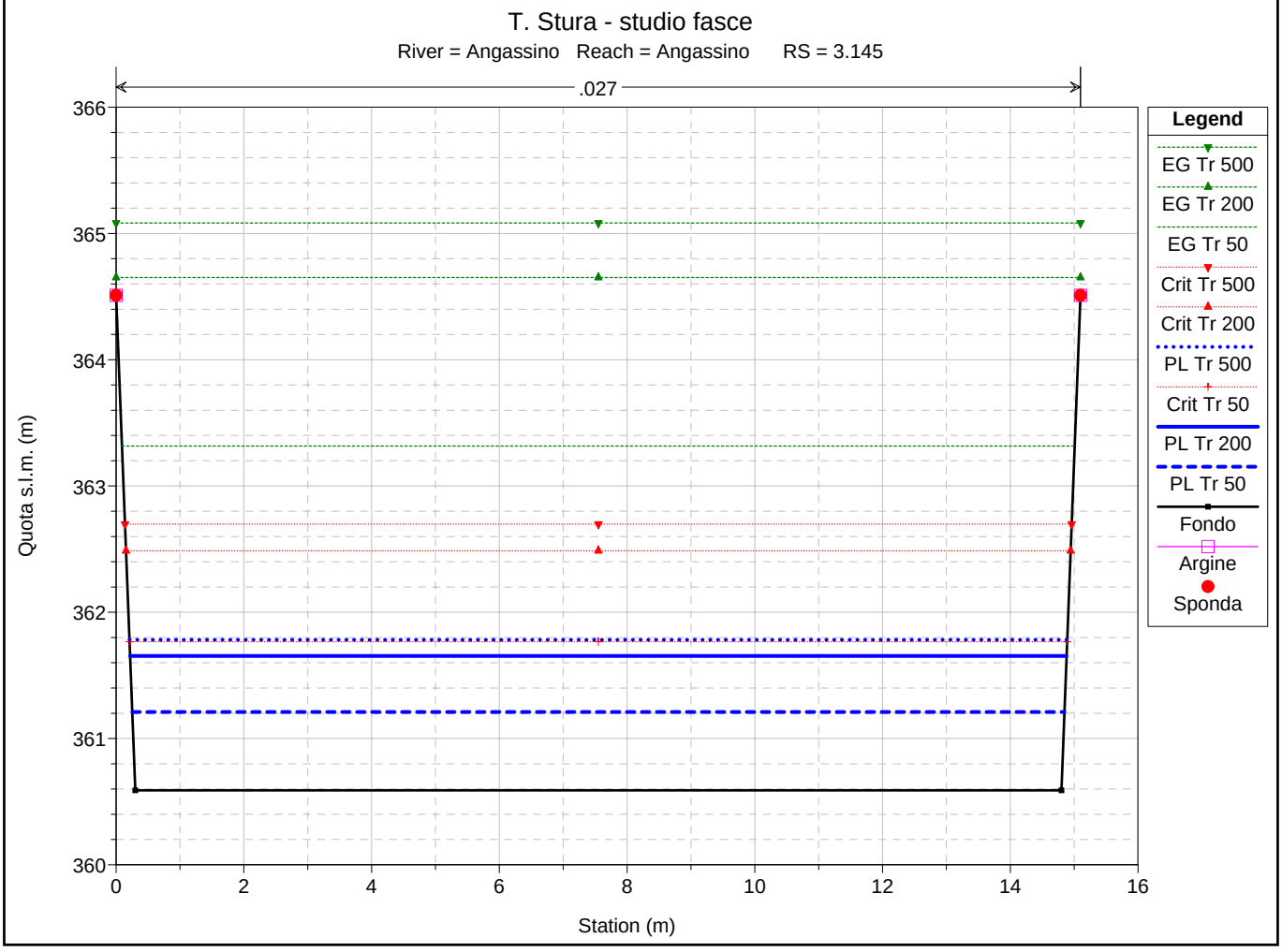

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.16
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

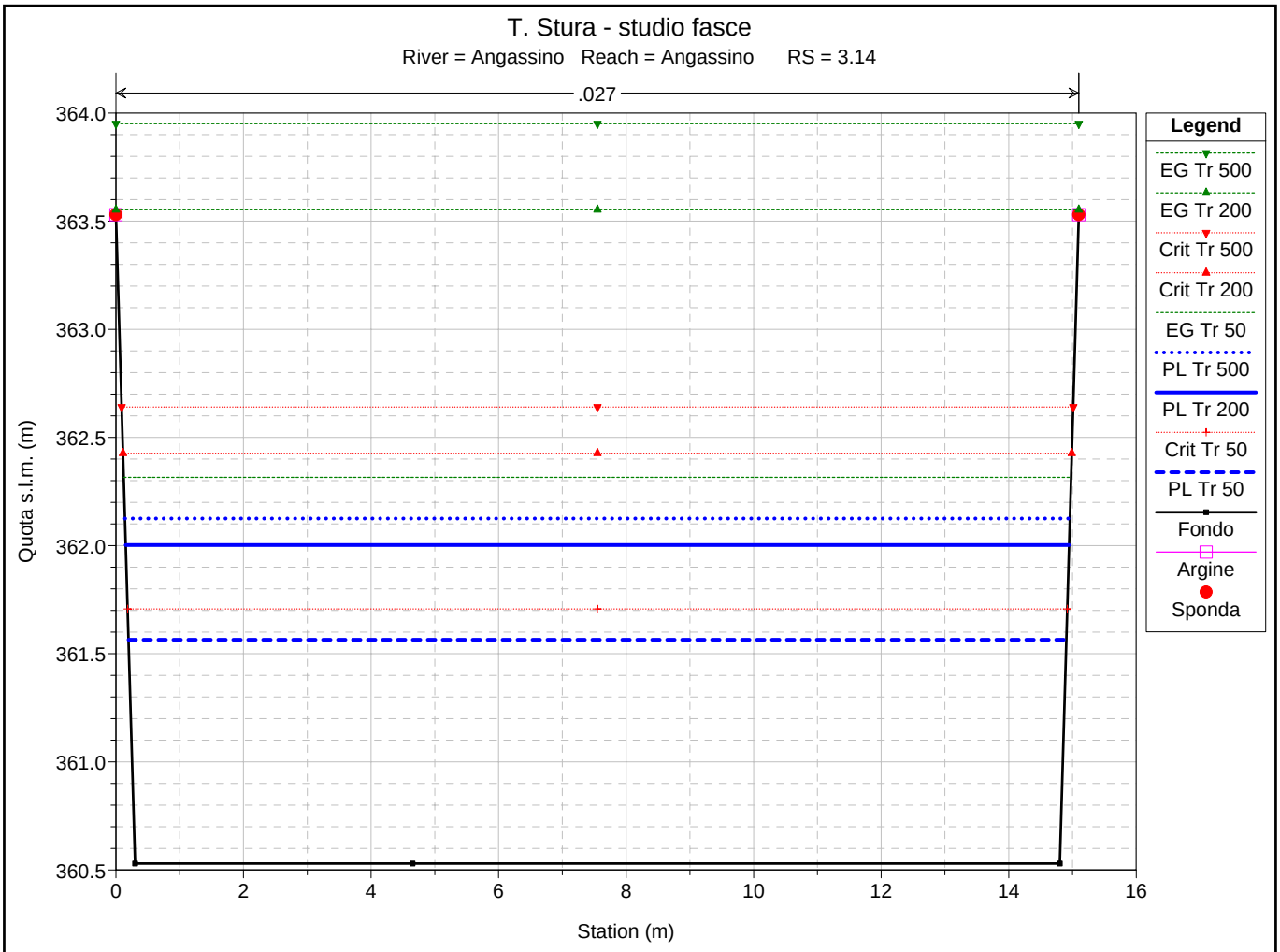

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.1551
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

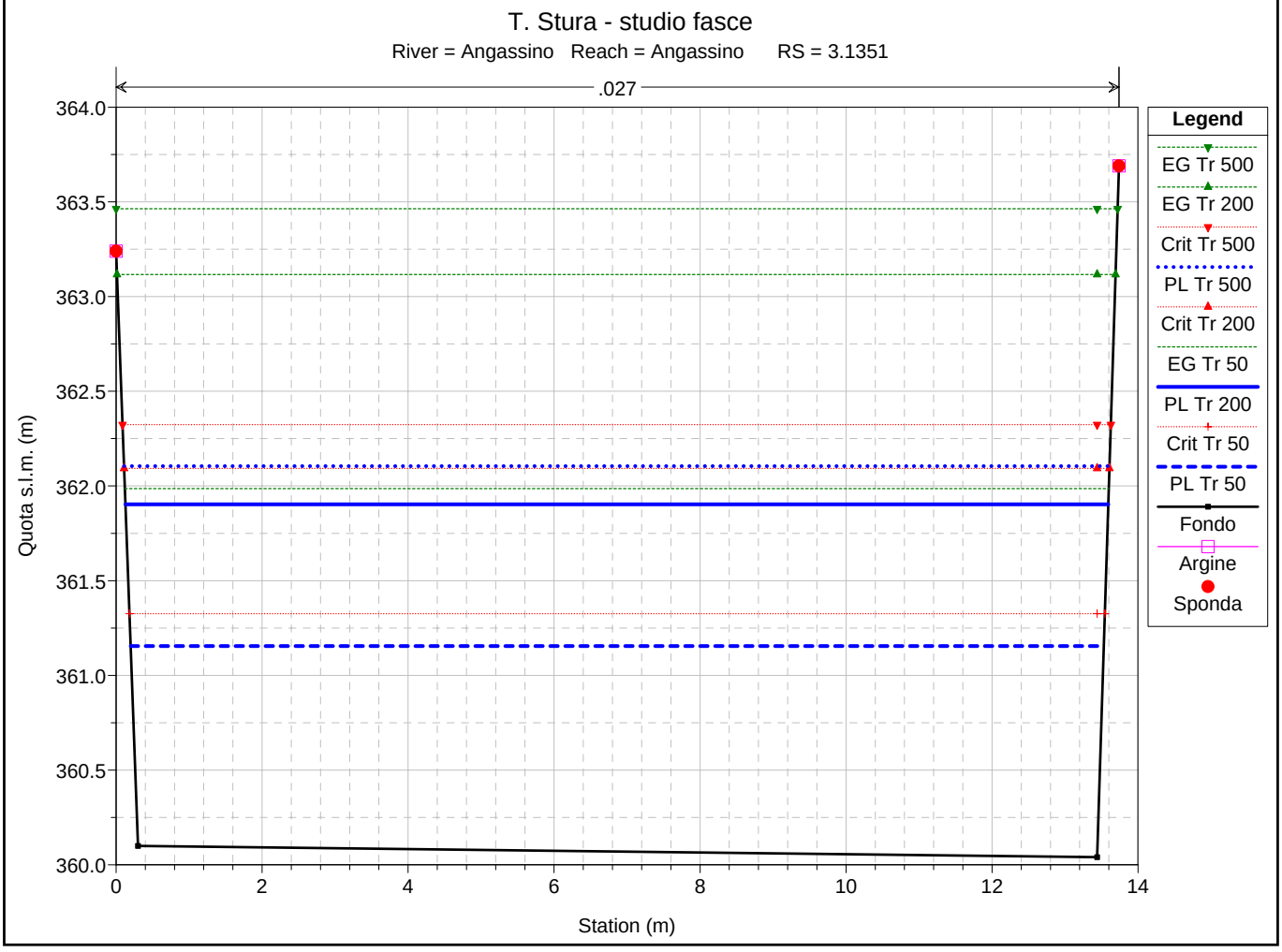

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.155
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

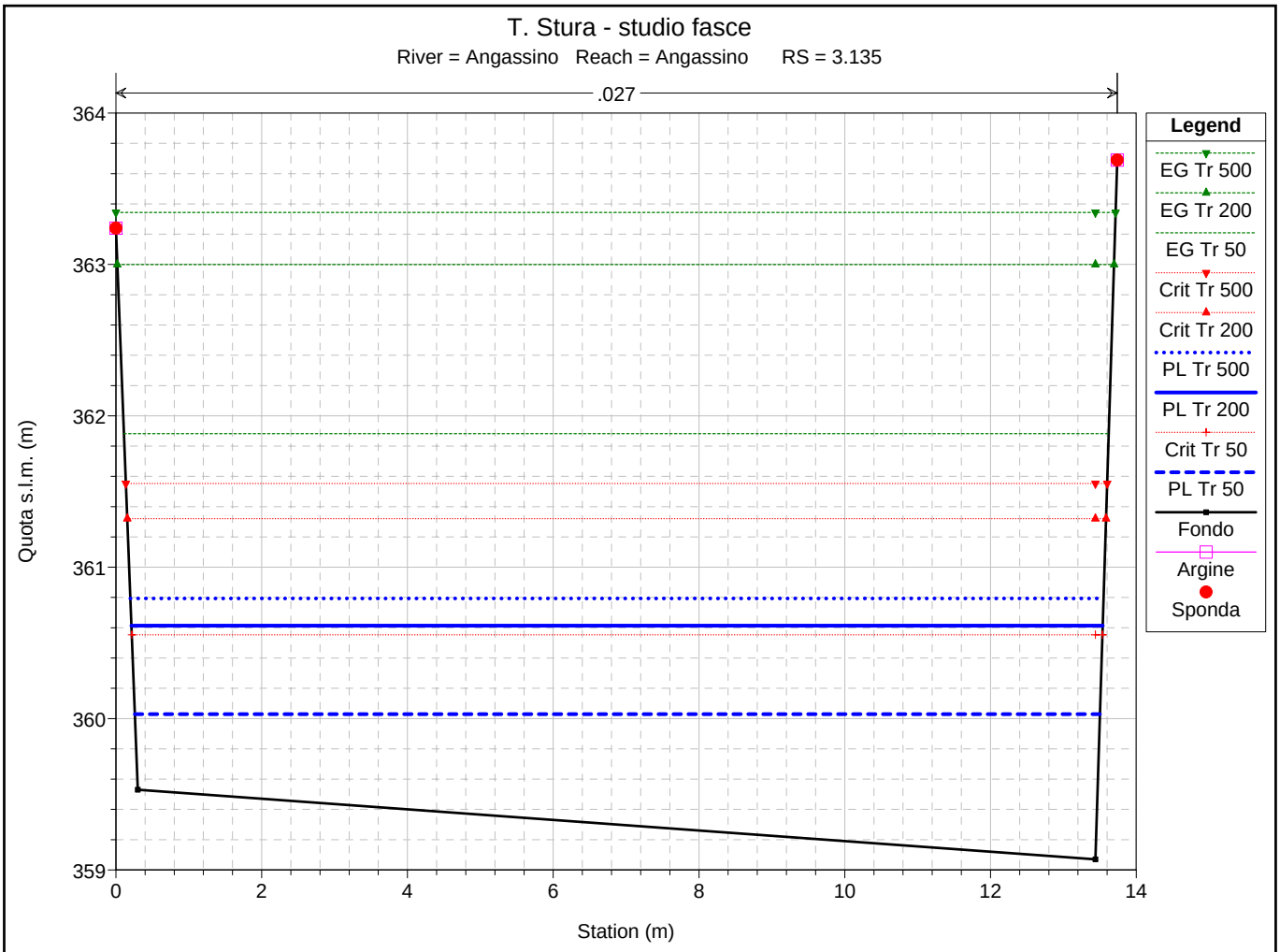

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.15
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

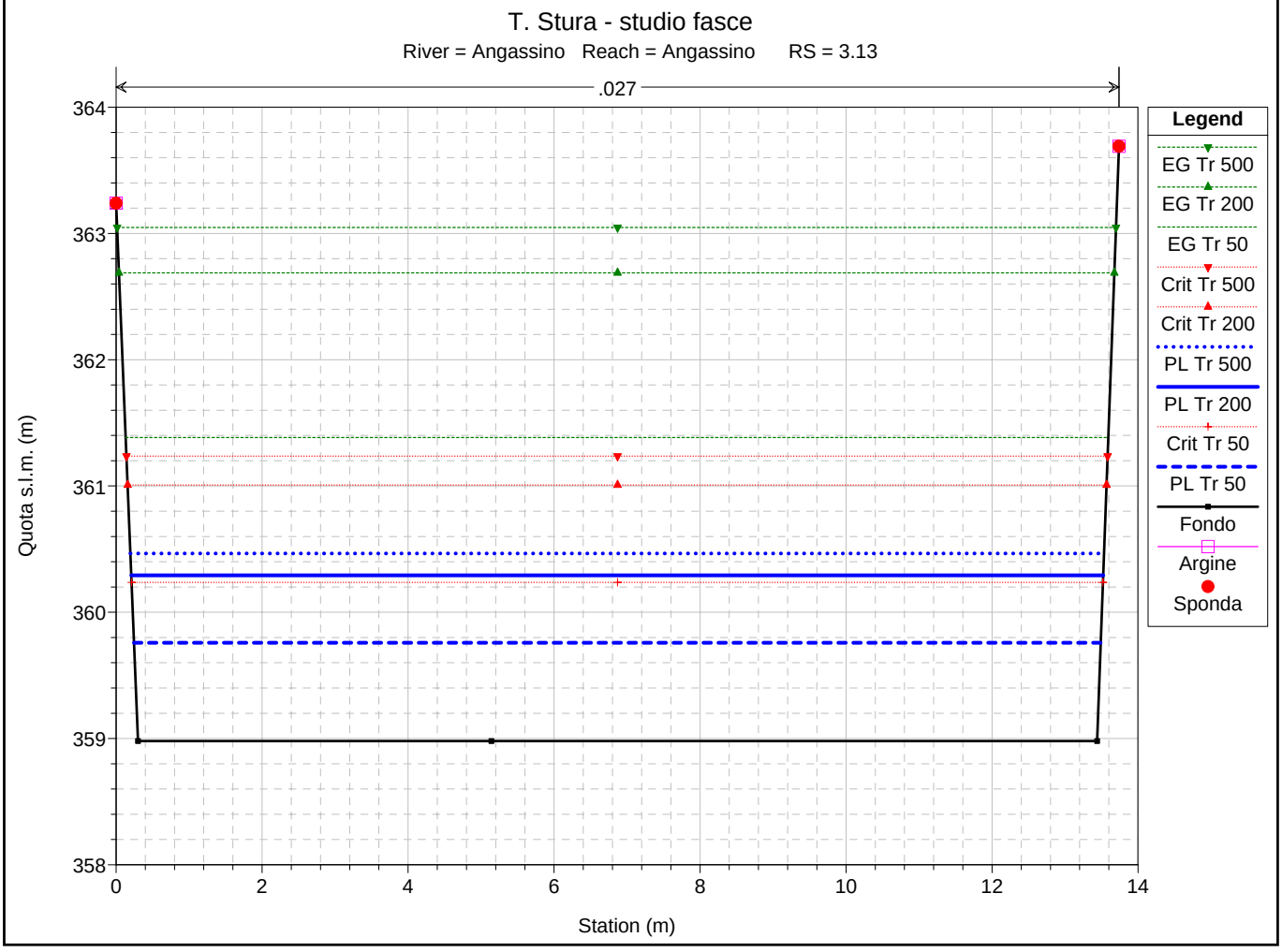

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.1451
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

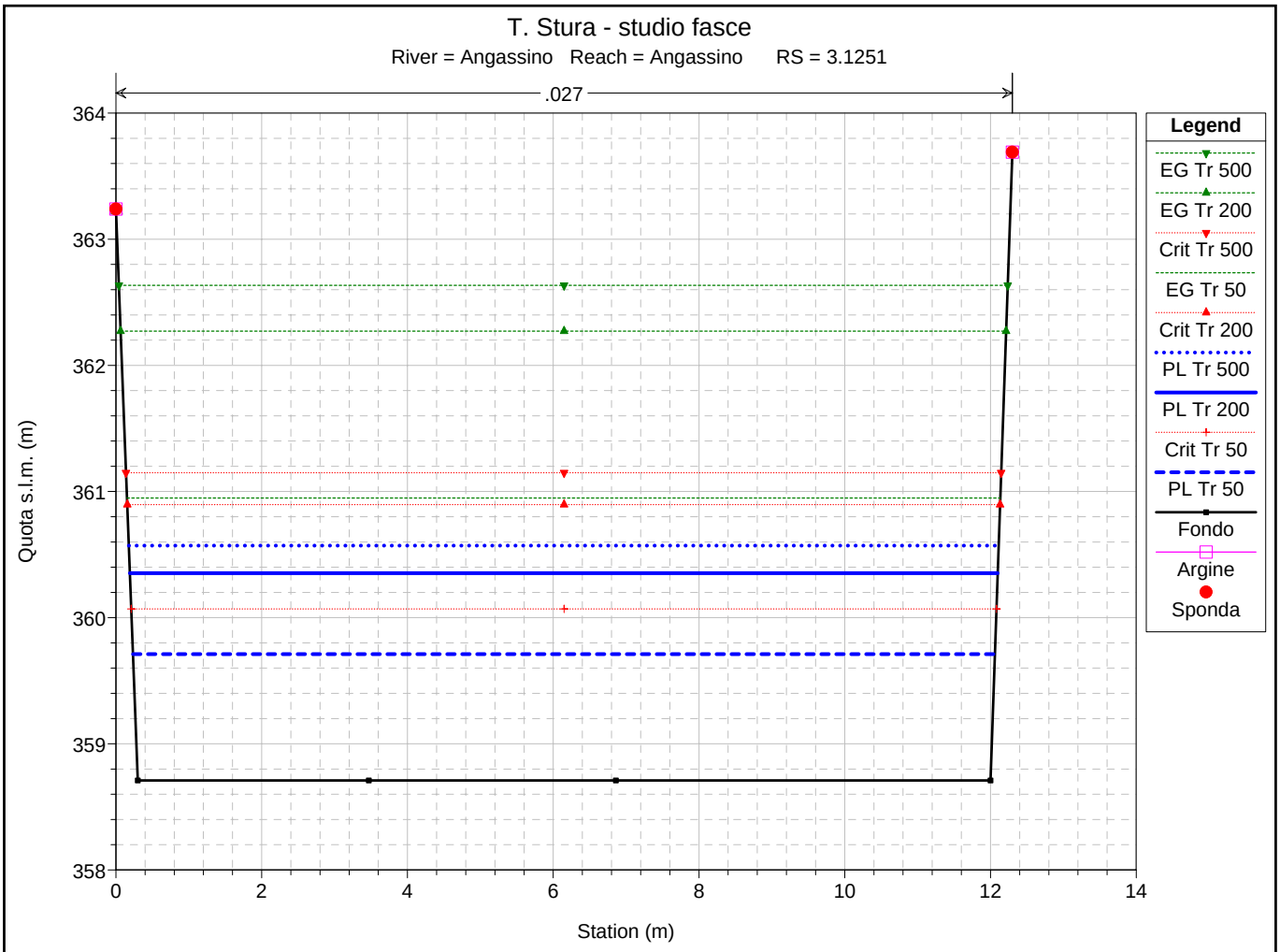

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.145
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

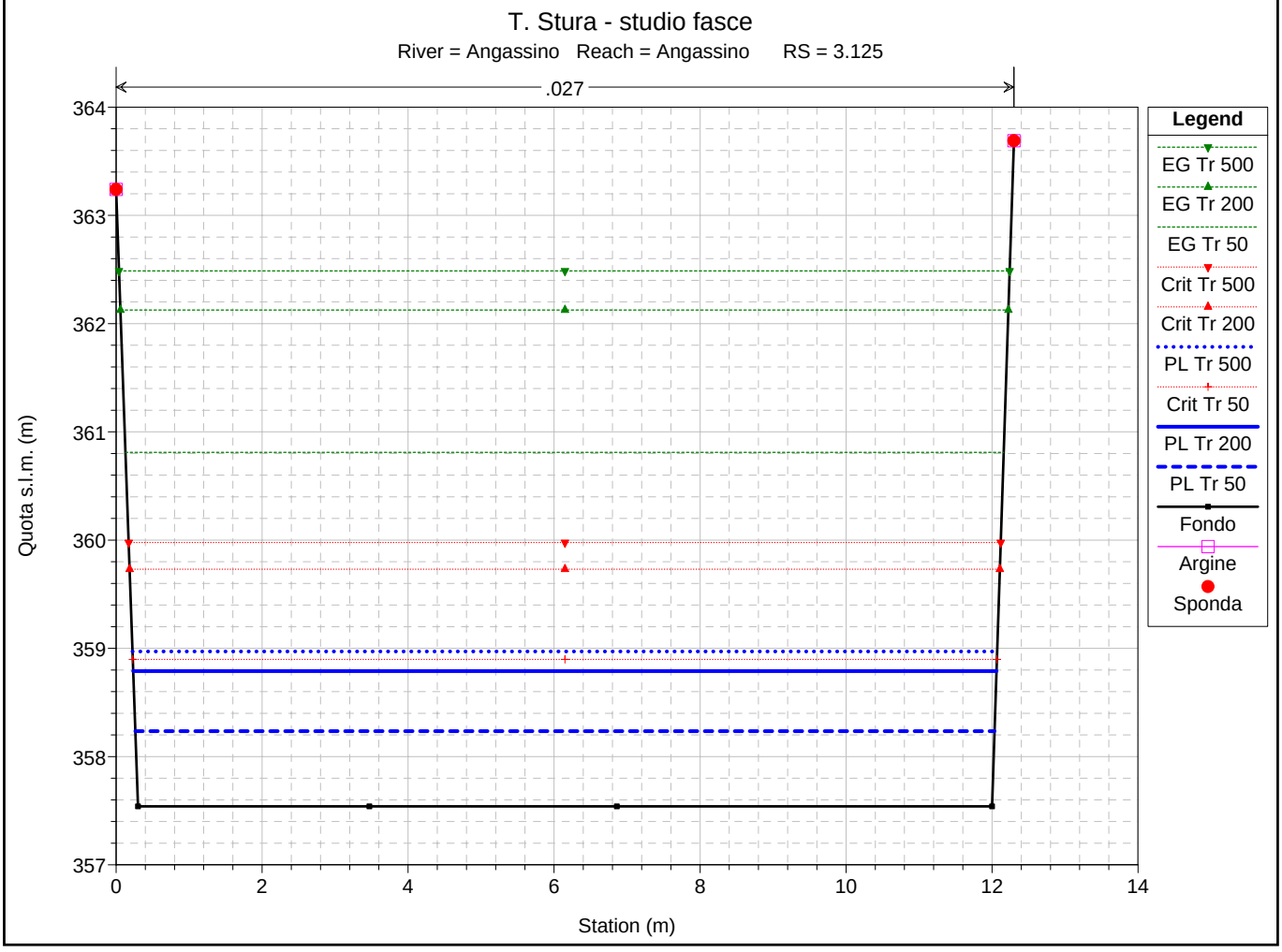

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.14
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

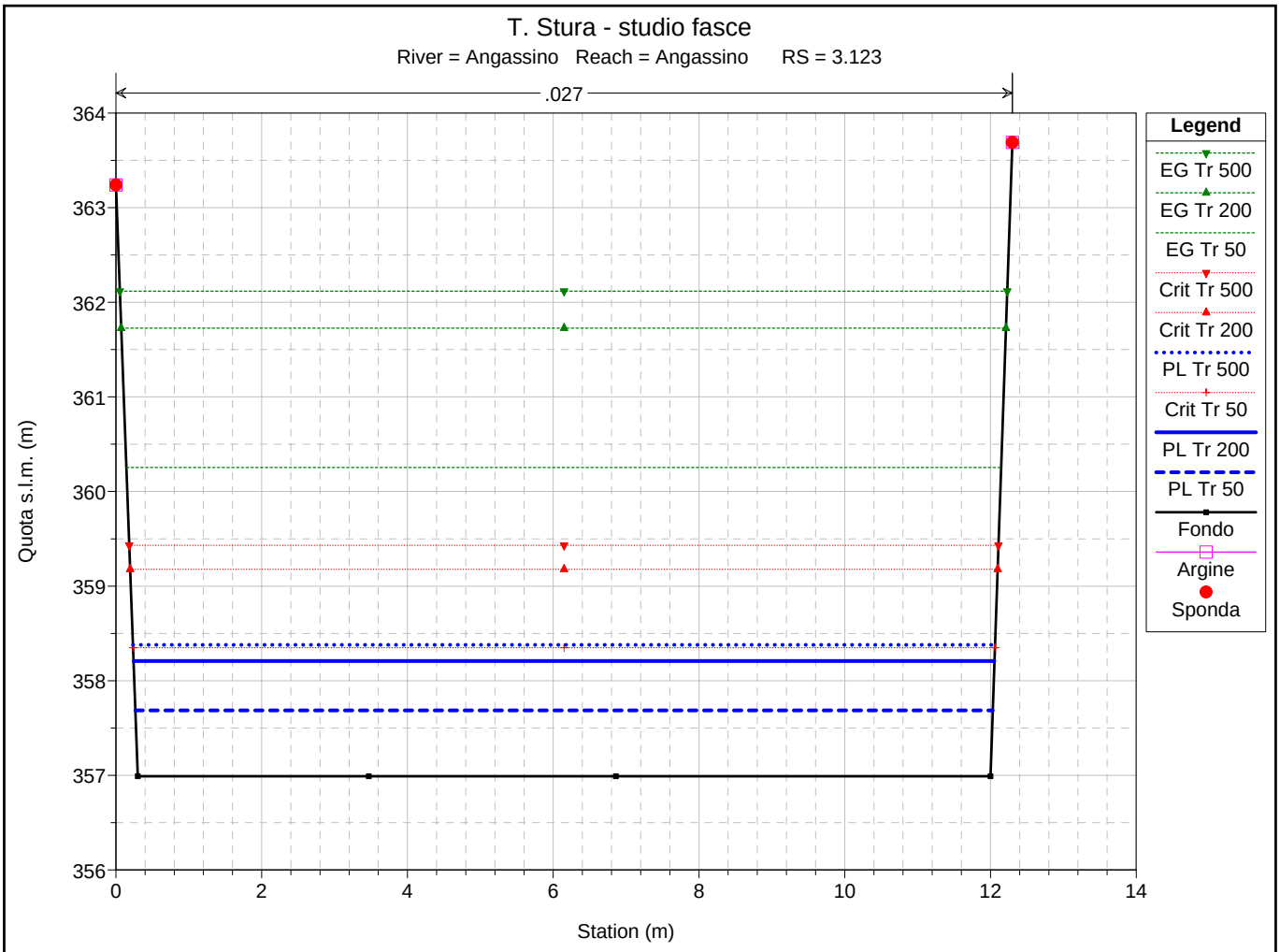

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.1351
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
PL Tr 500
Crit Tr 200
EG Tr 50
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

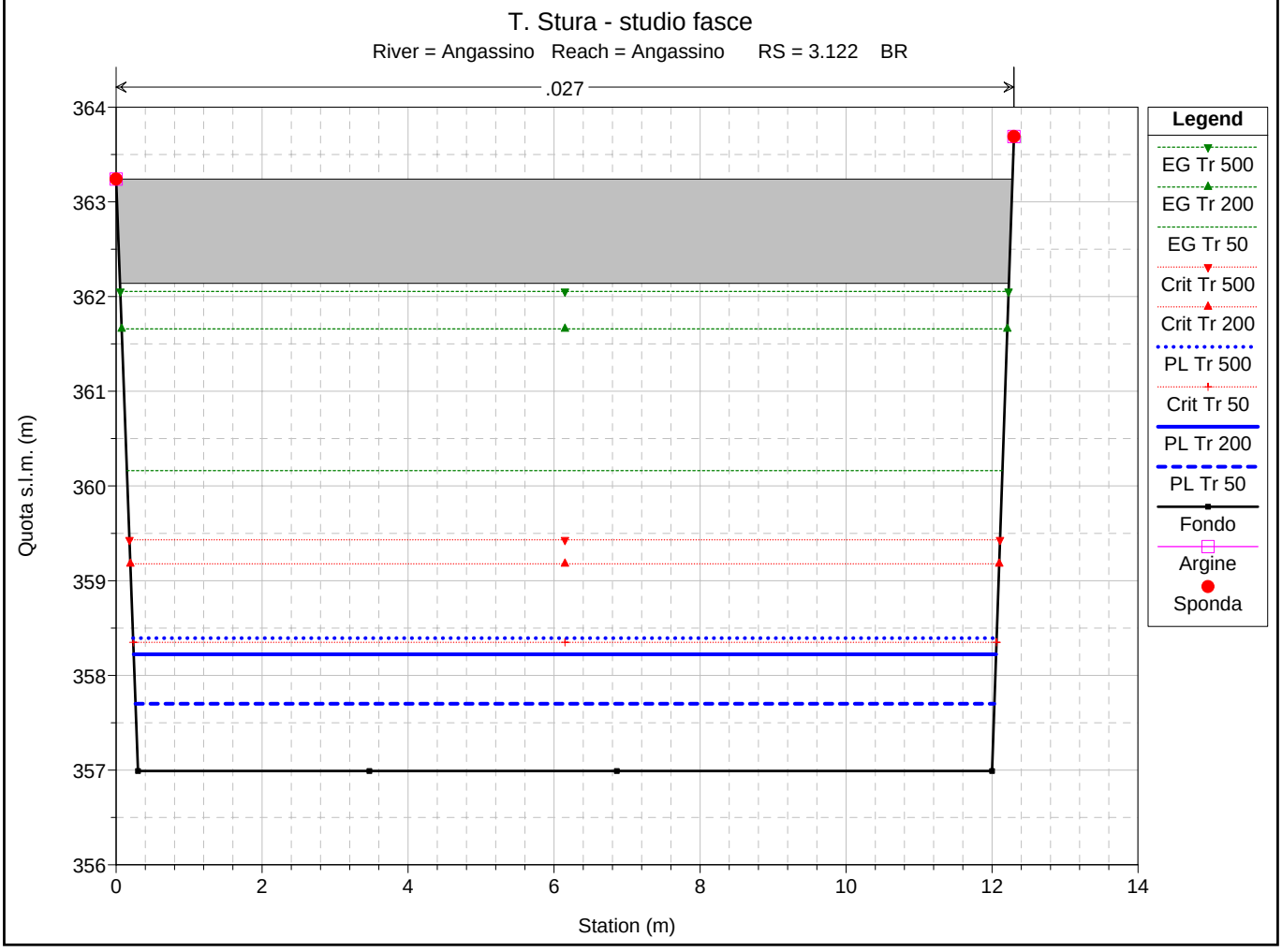

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.135
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

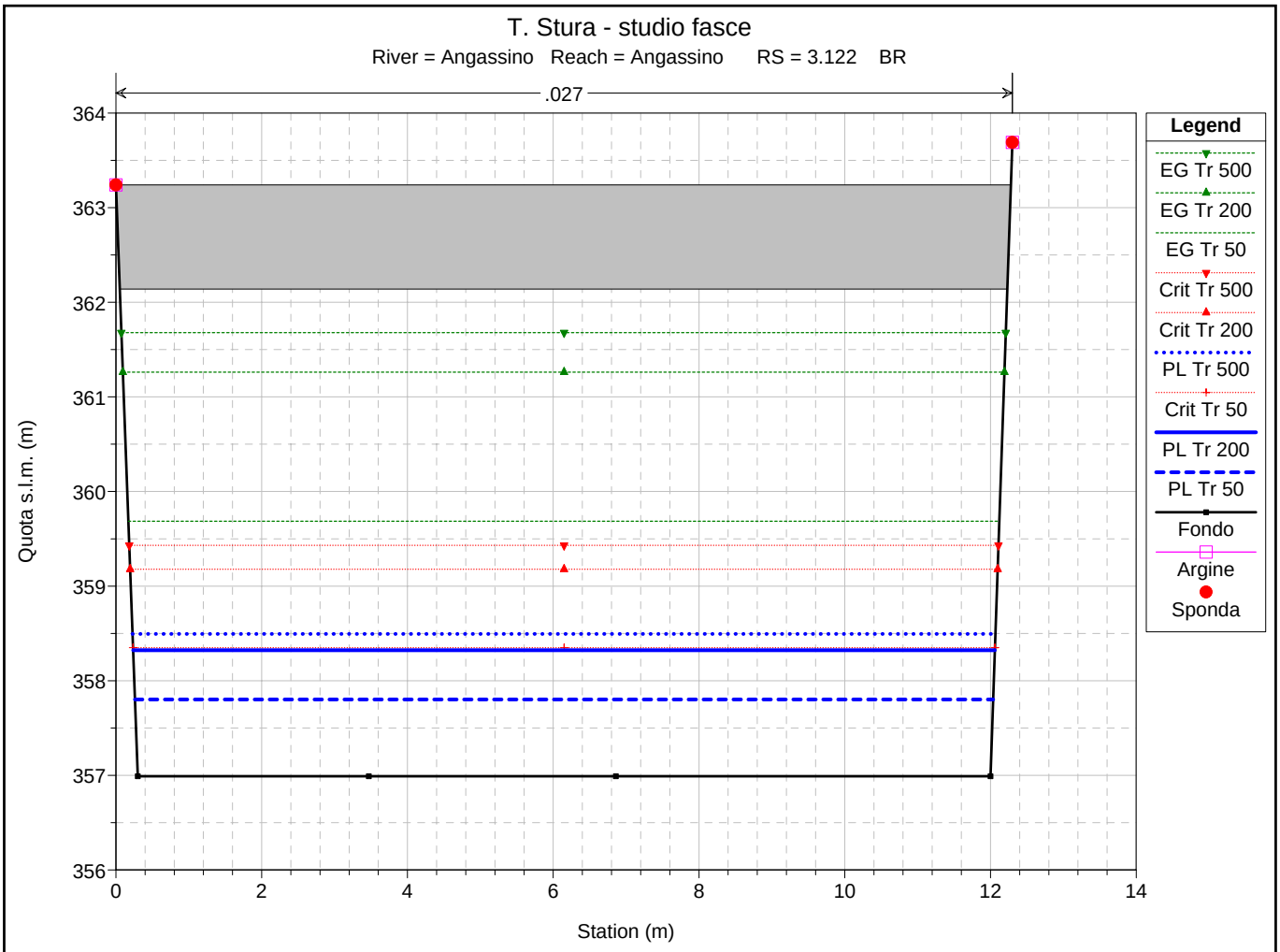

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.13
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

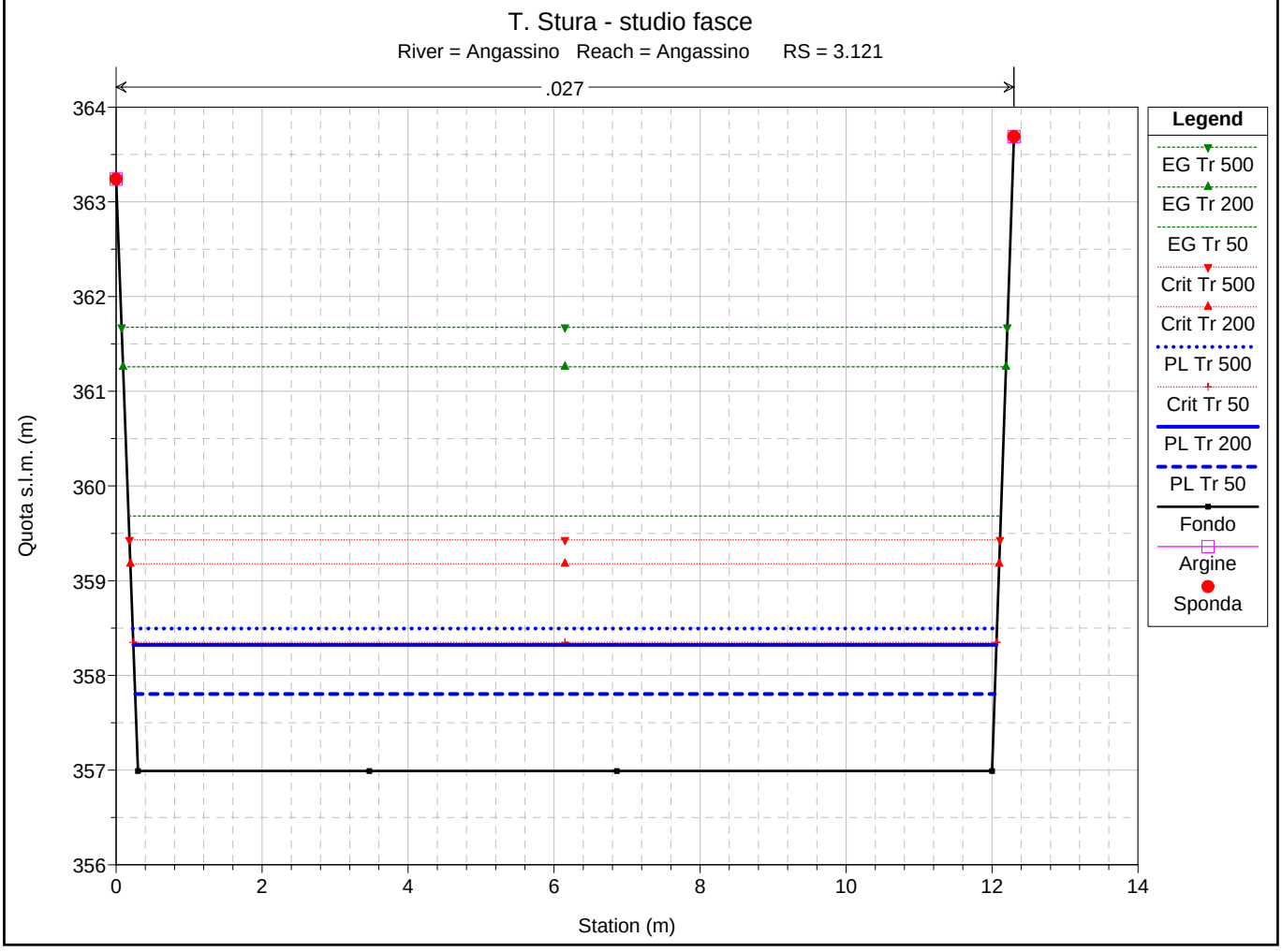

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.1251
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

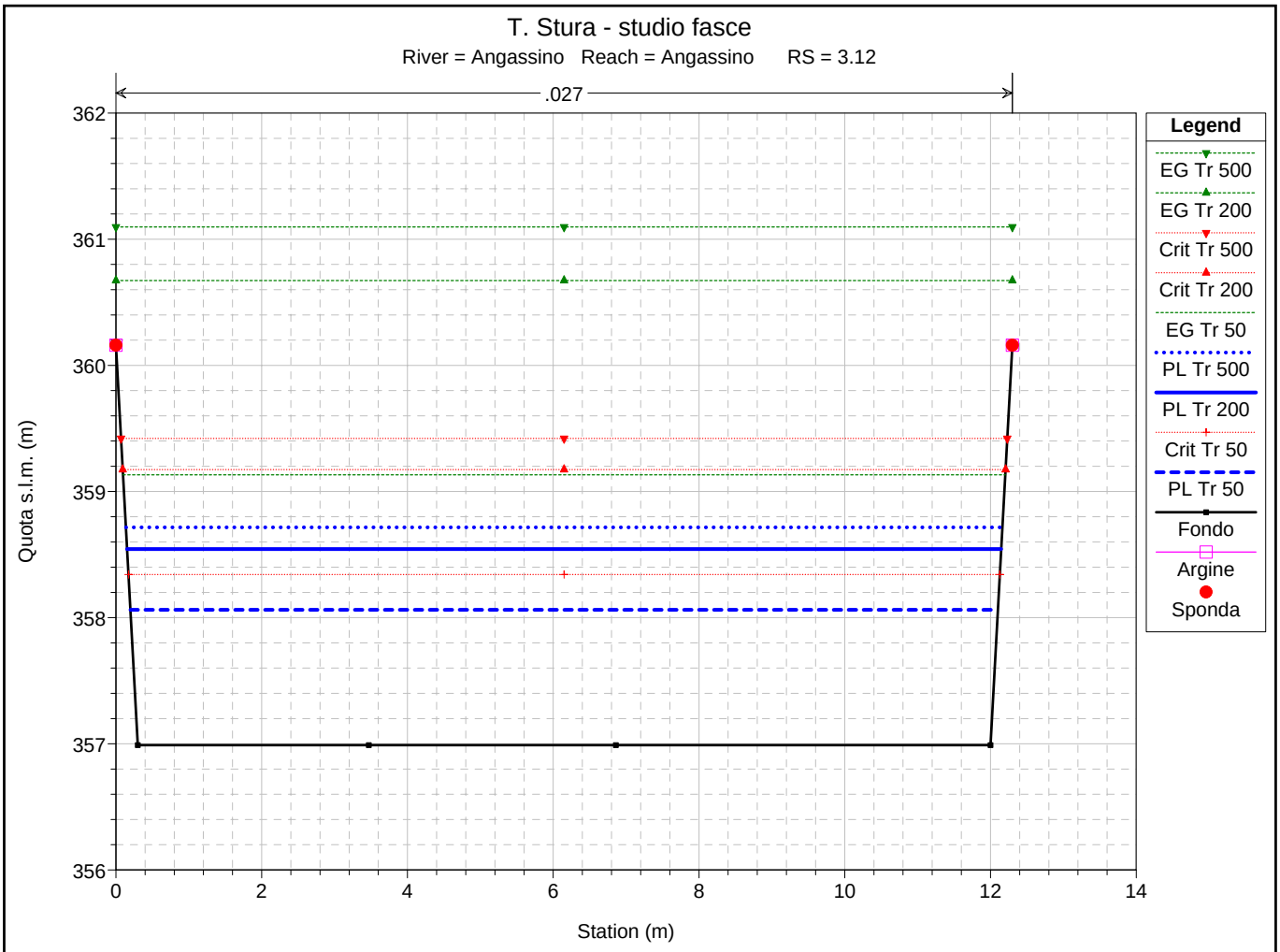

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.125
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

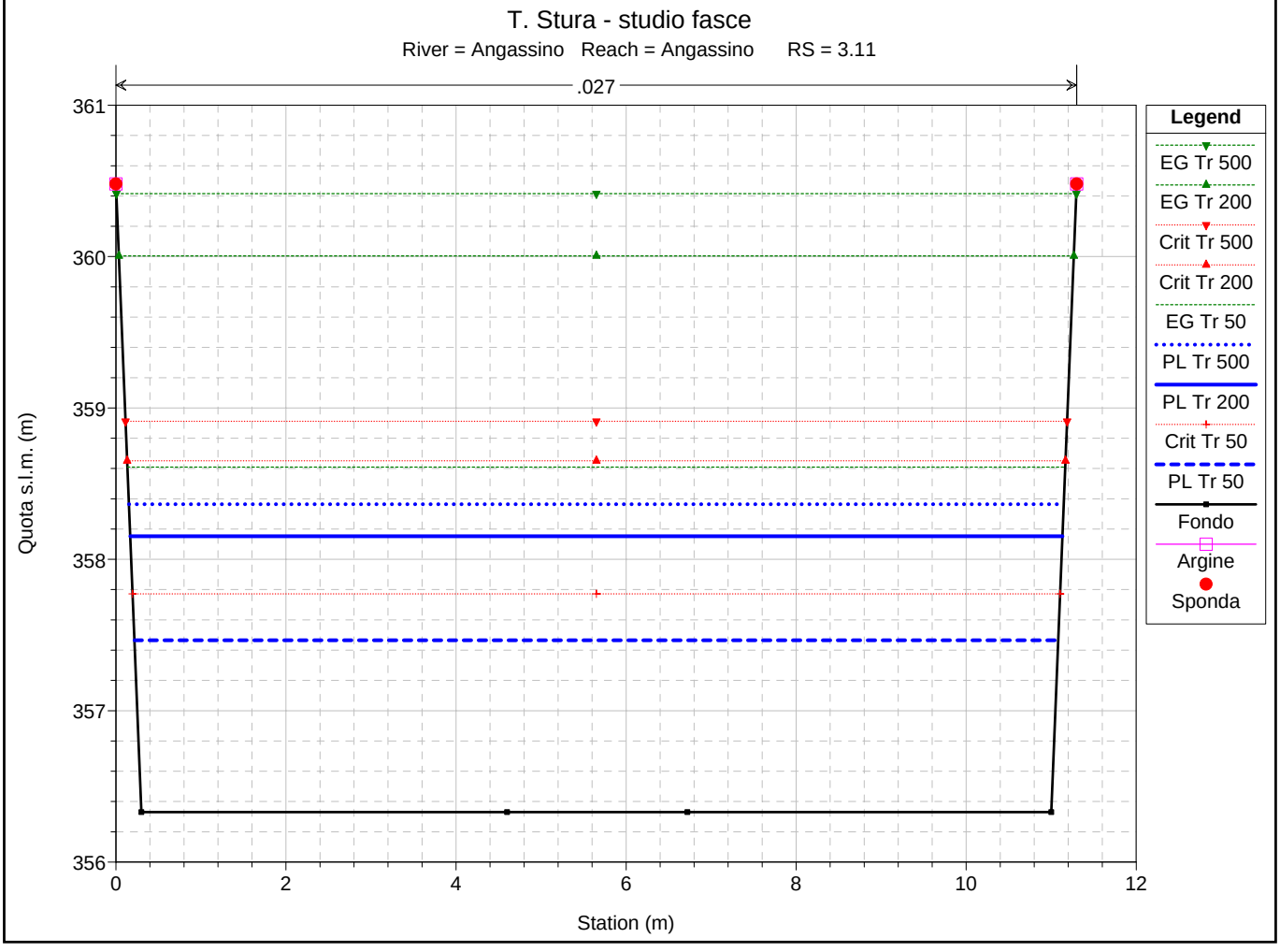

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.123
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

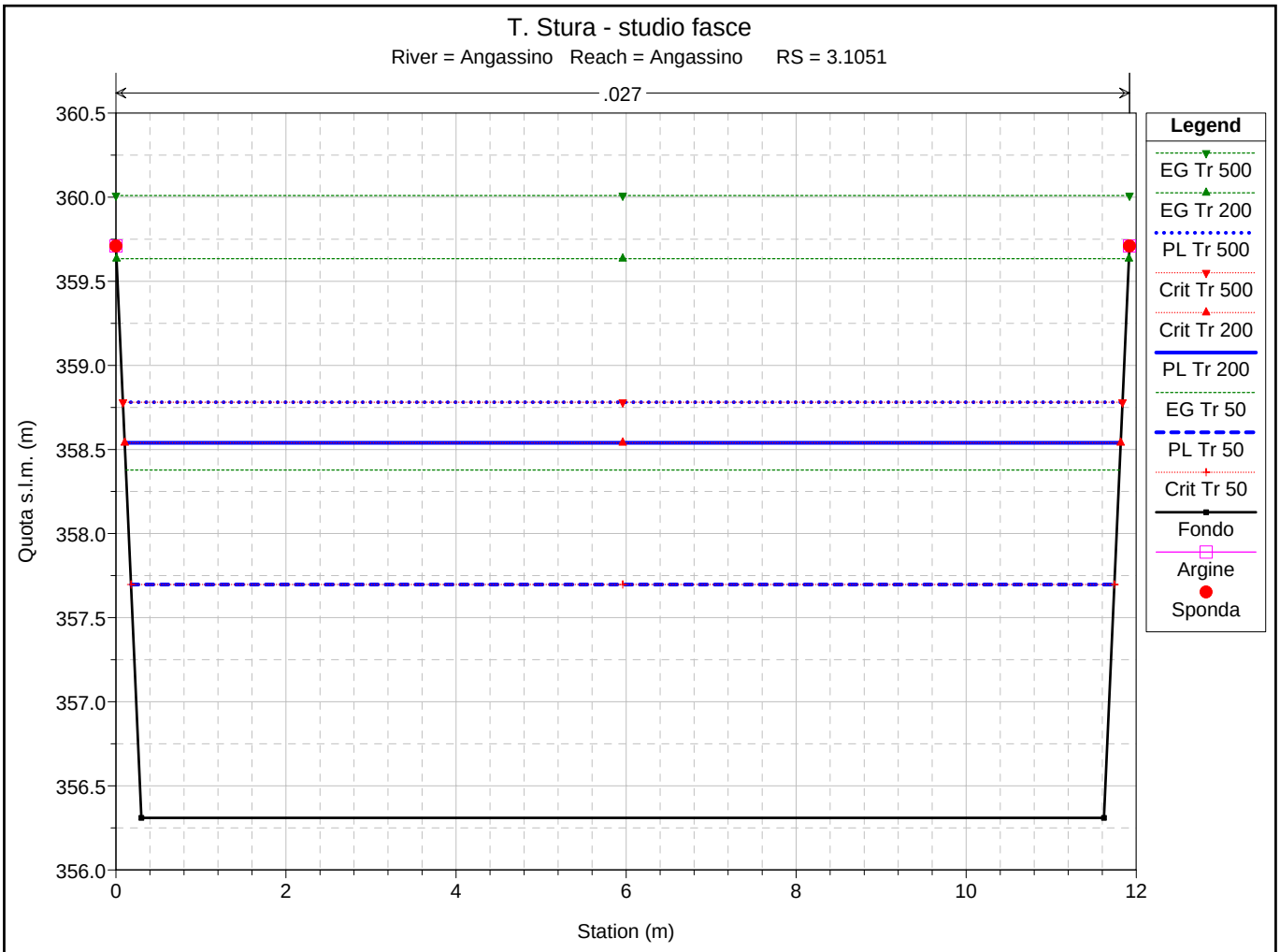

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.122 BR
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

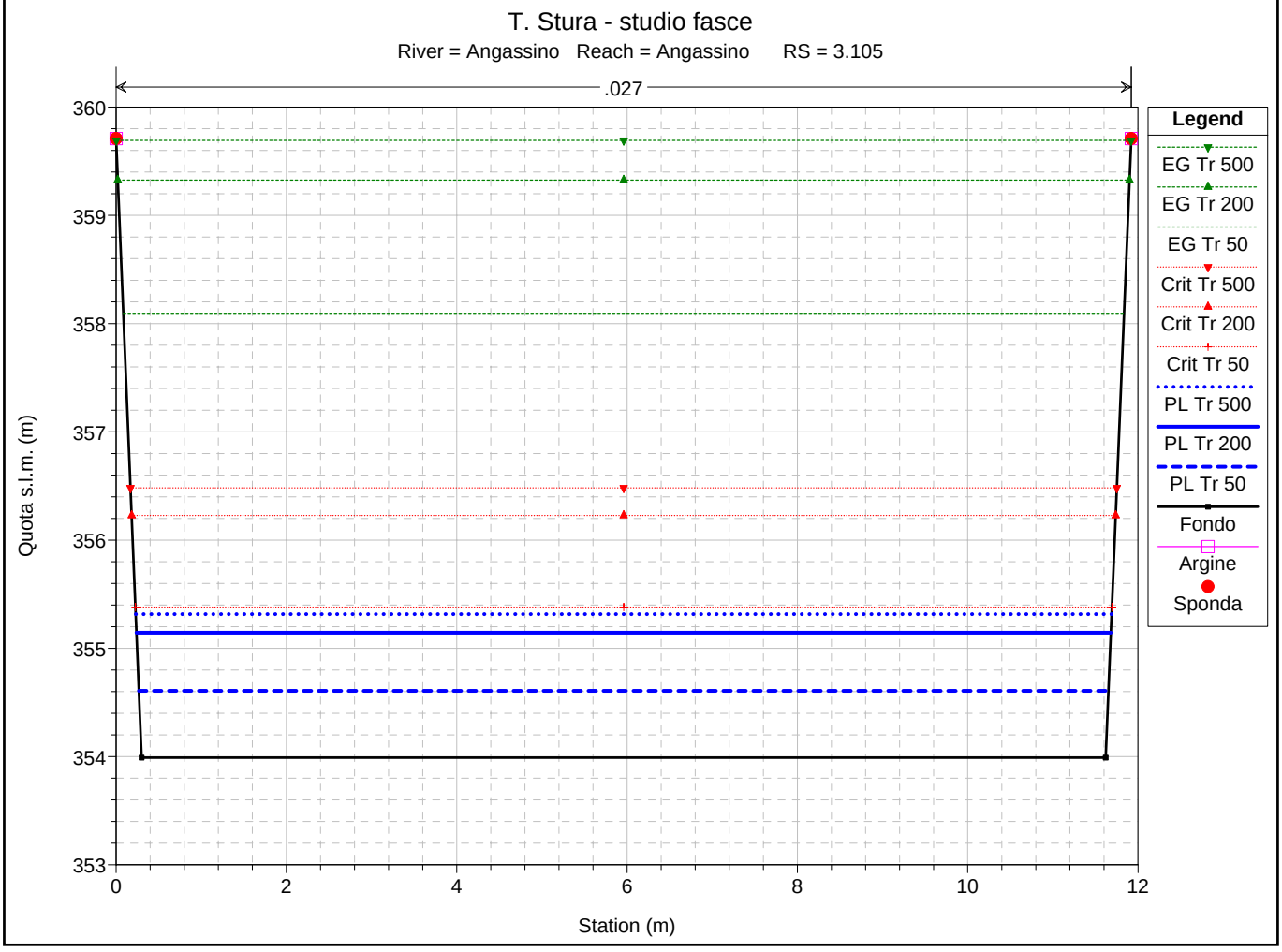

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.122 BR
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

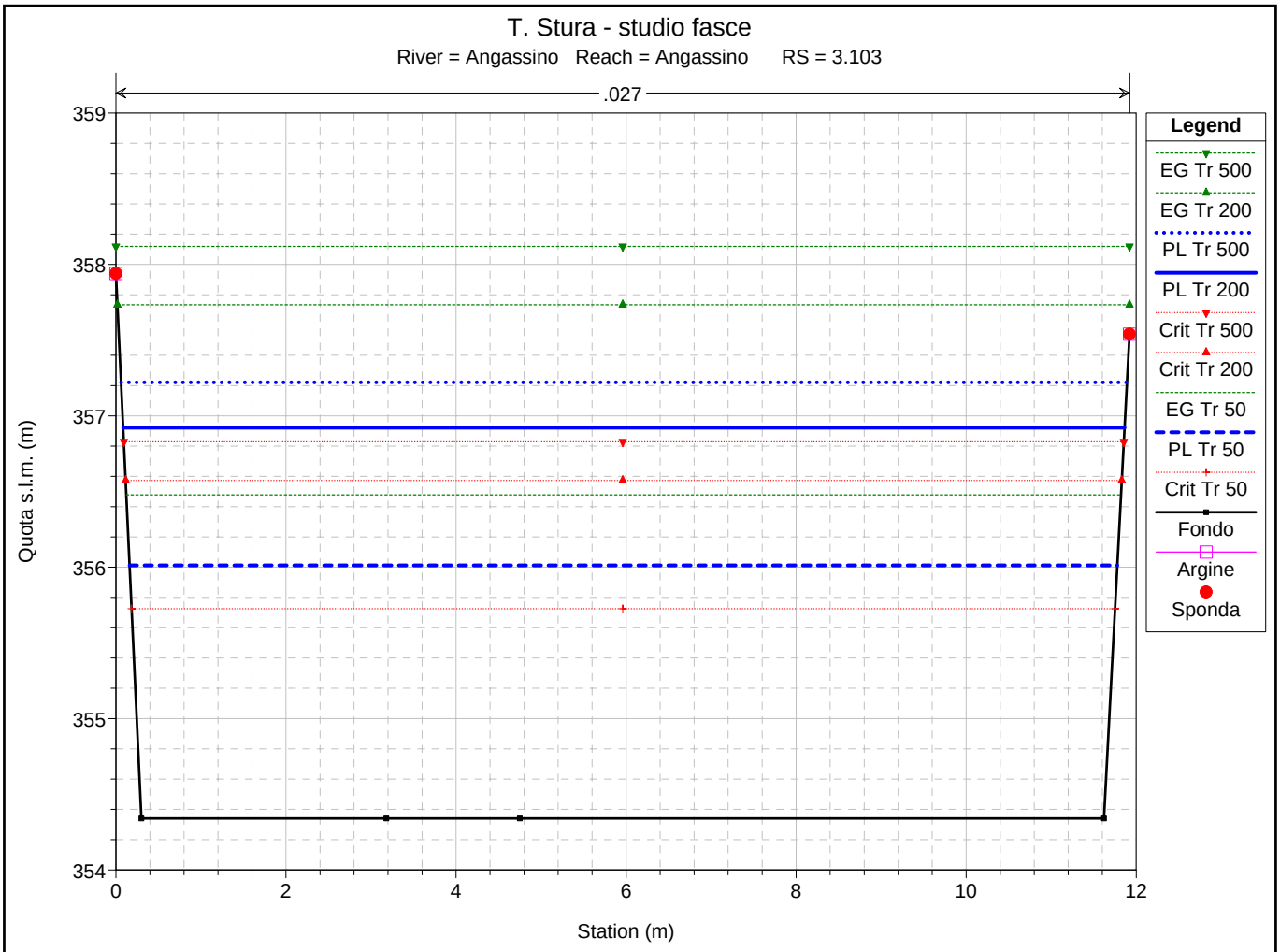

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.121
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

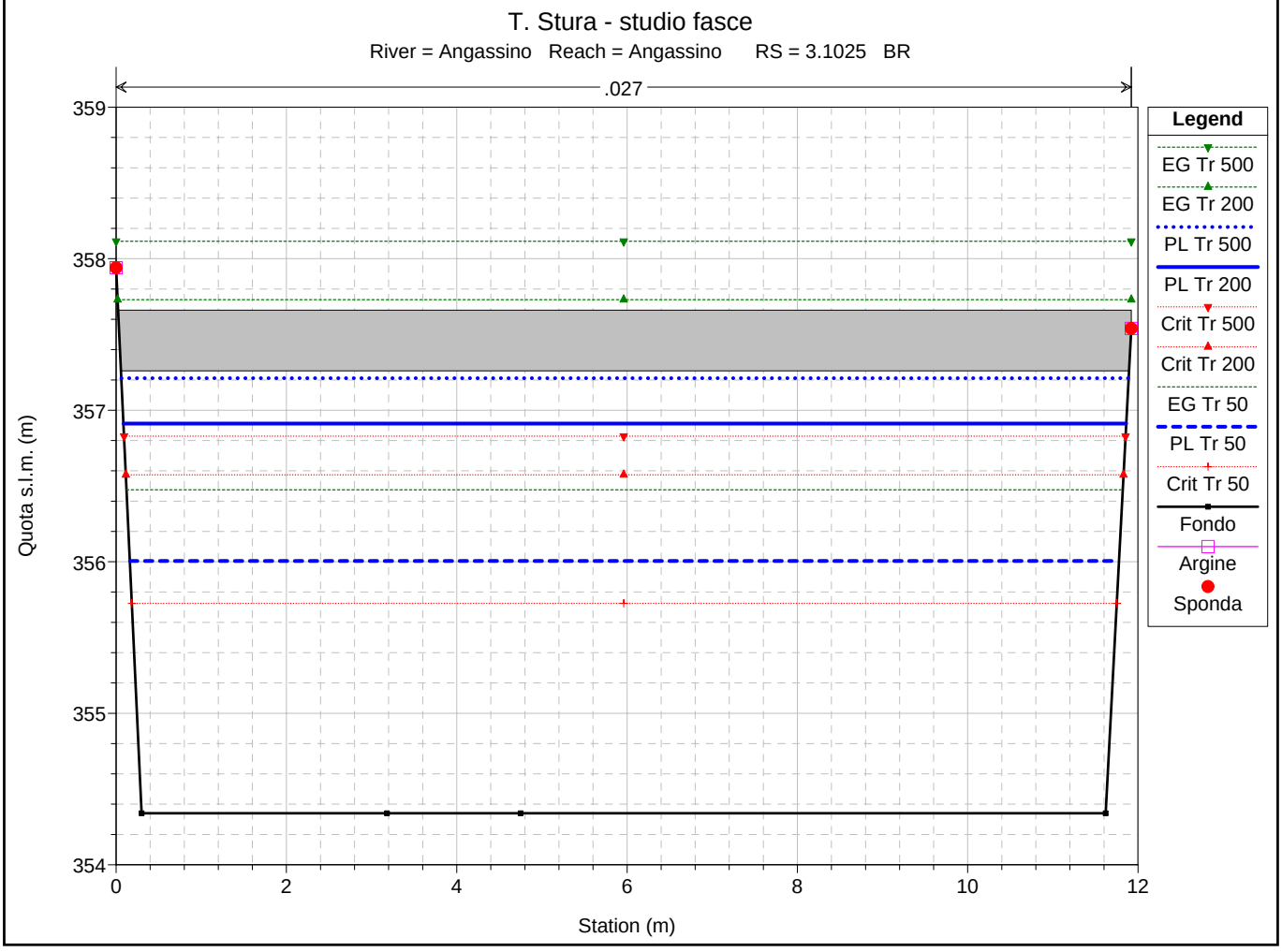

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.12
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

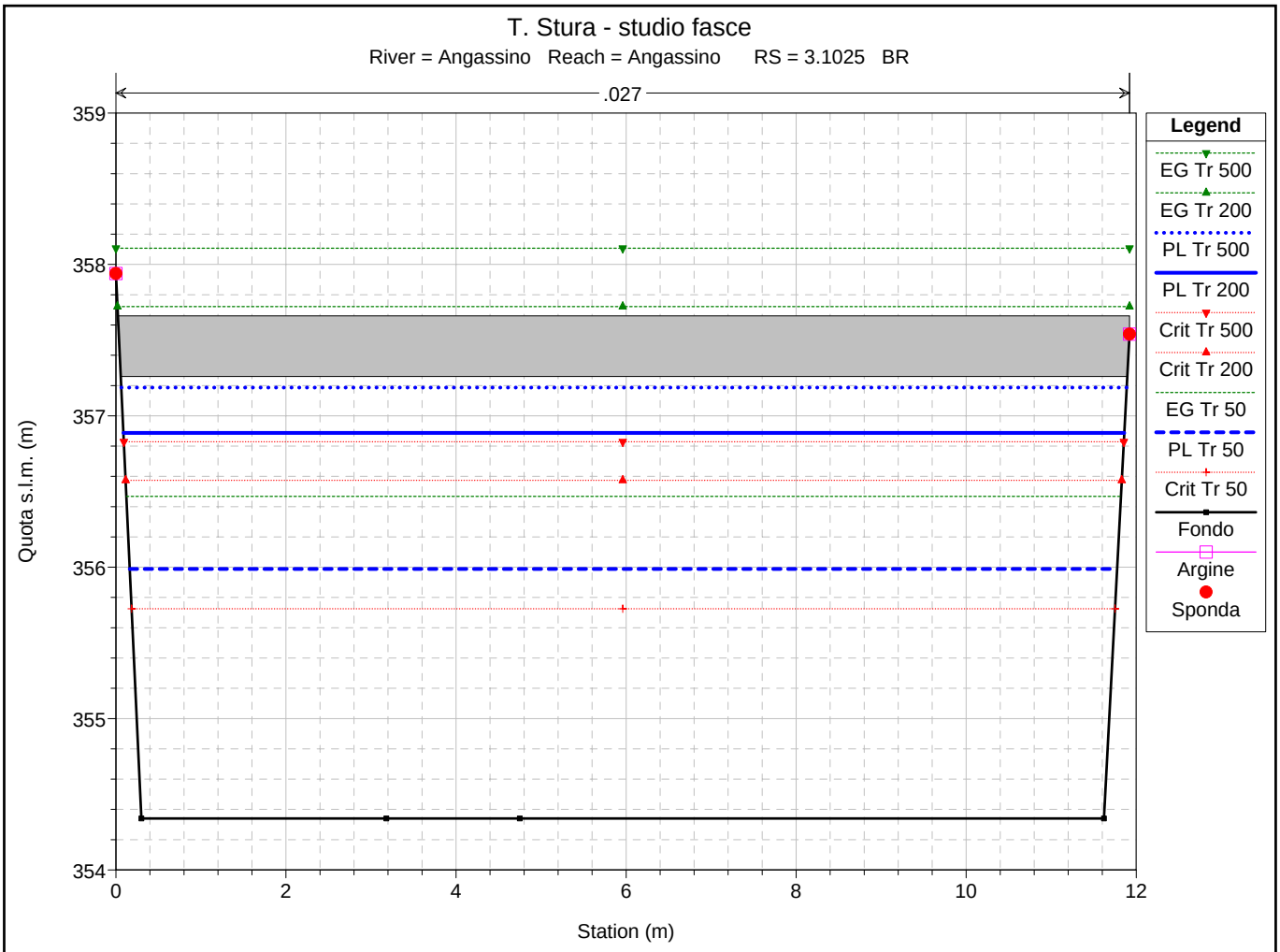

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.11
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

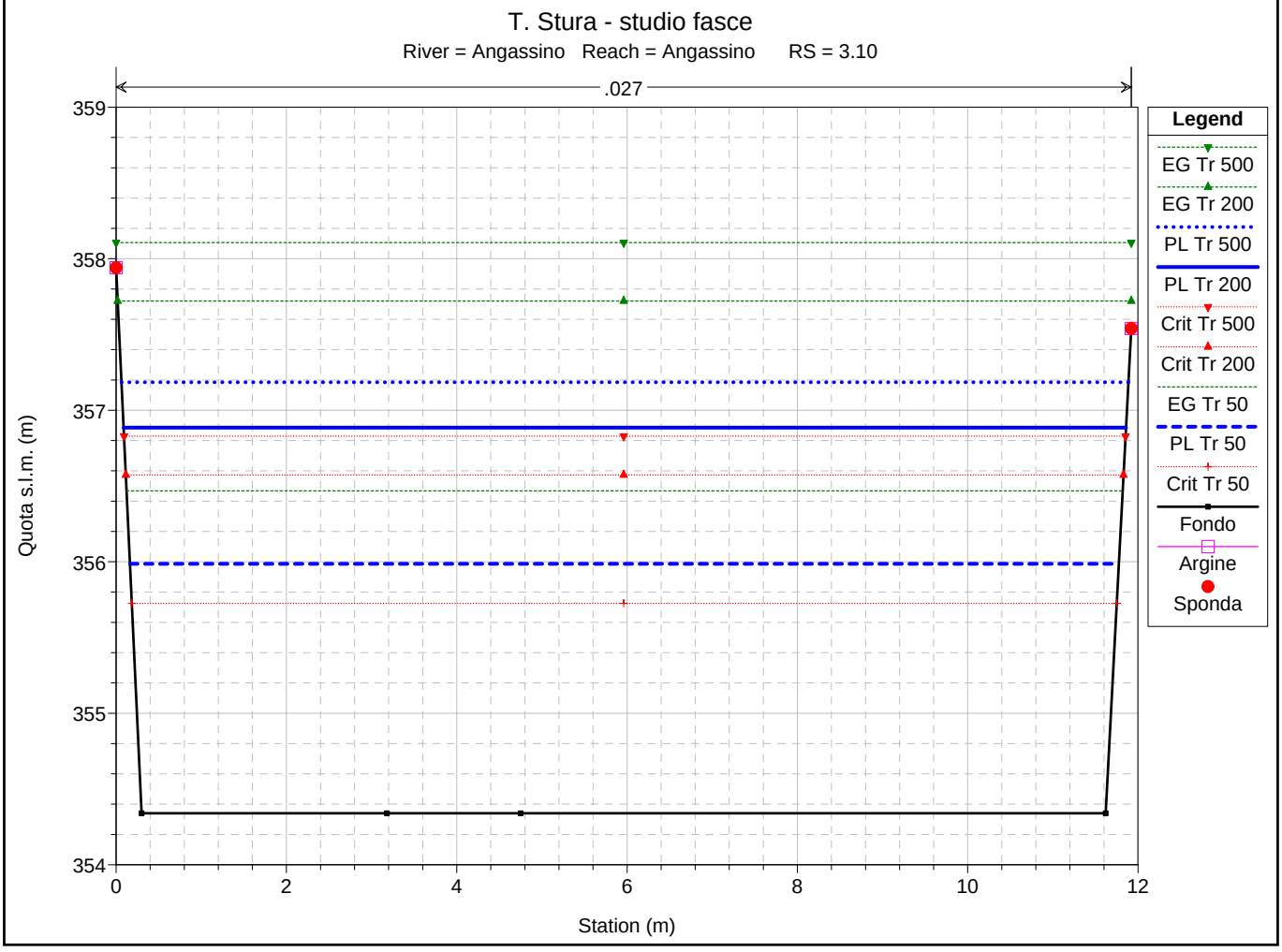

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.1051
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

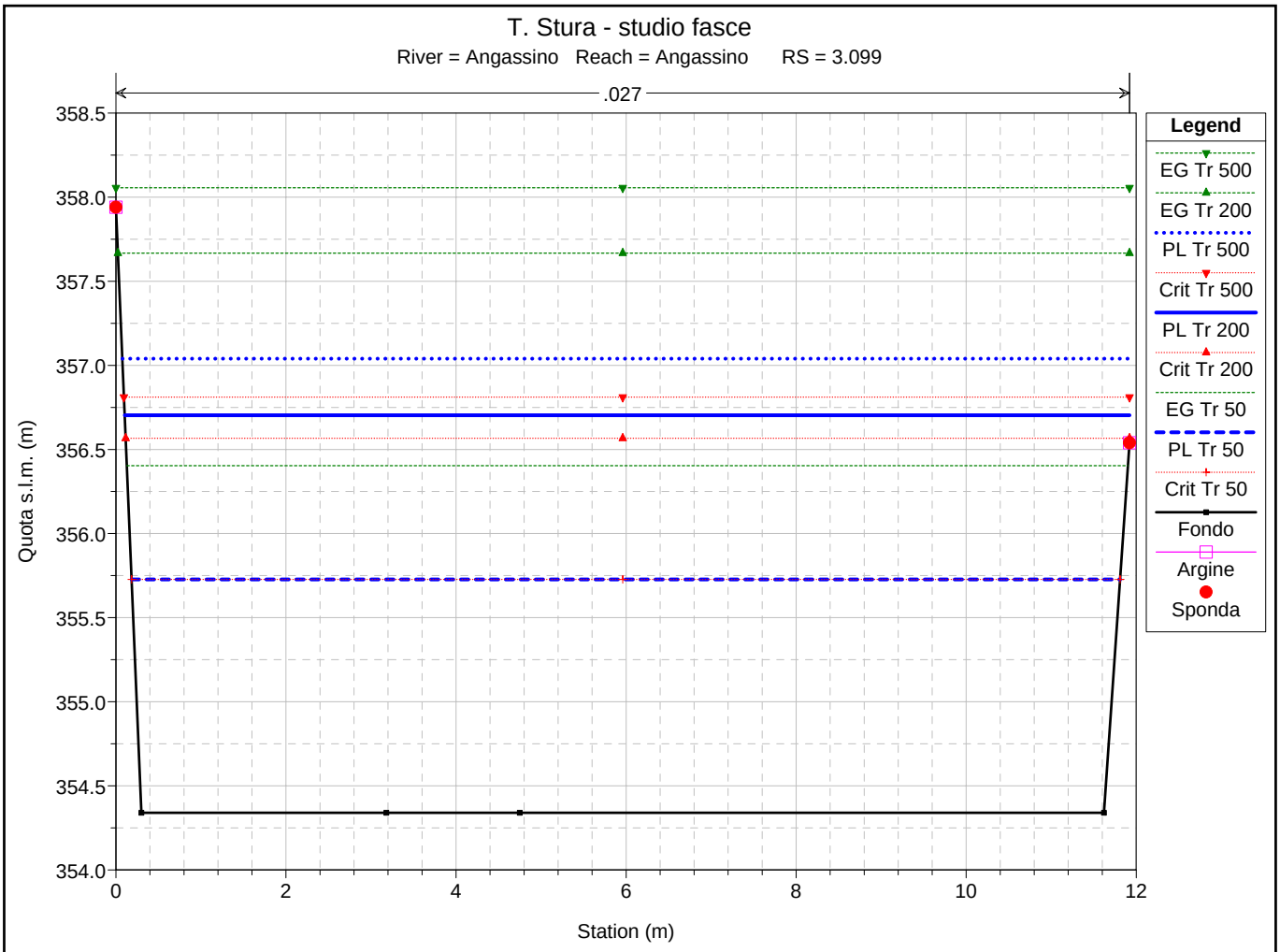

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.105
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

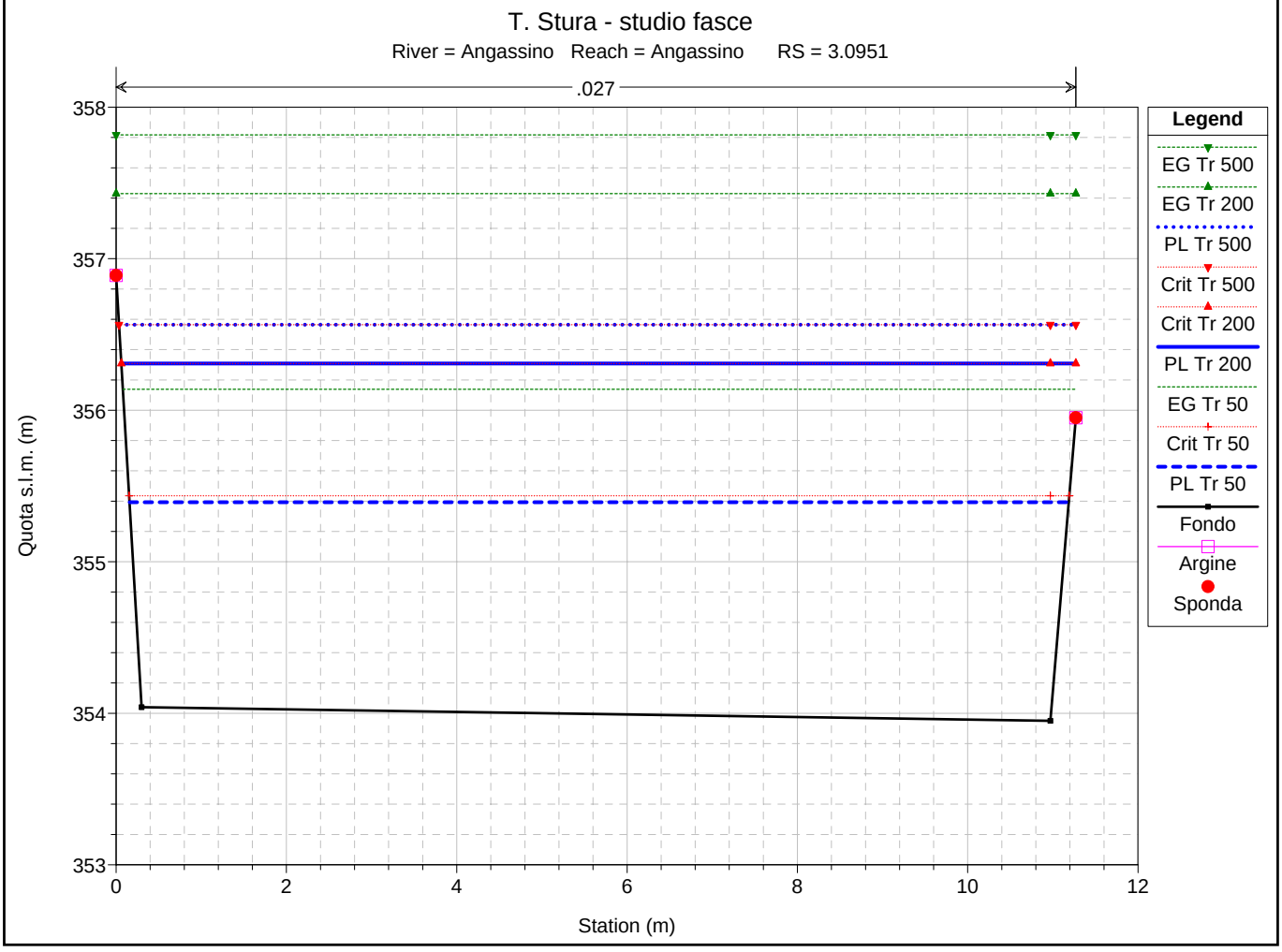

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.103
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

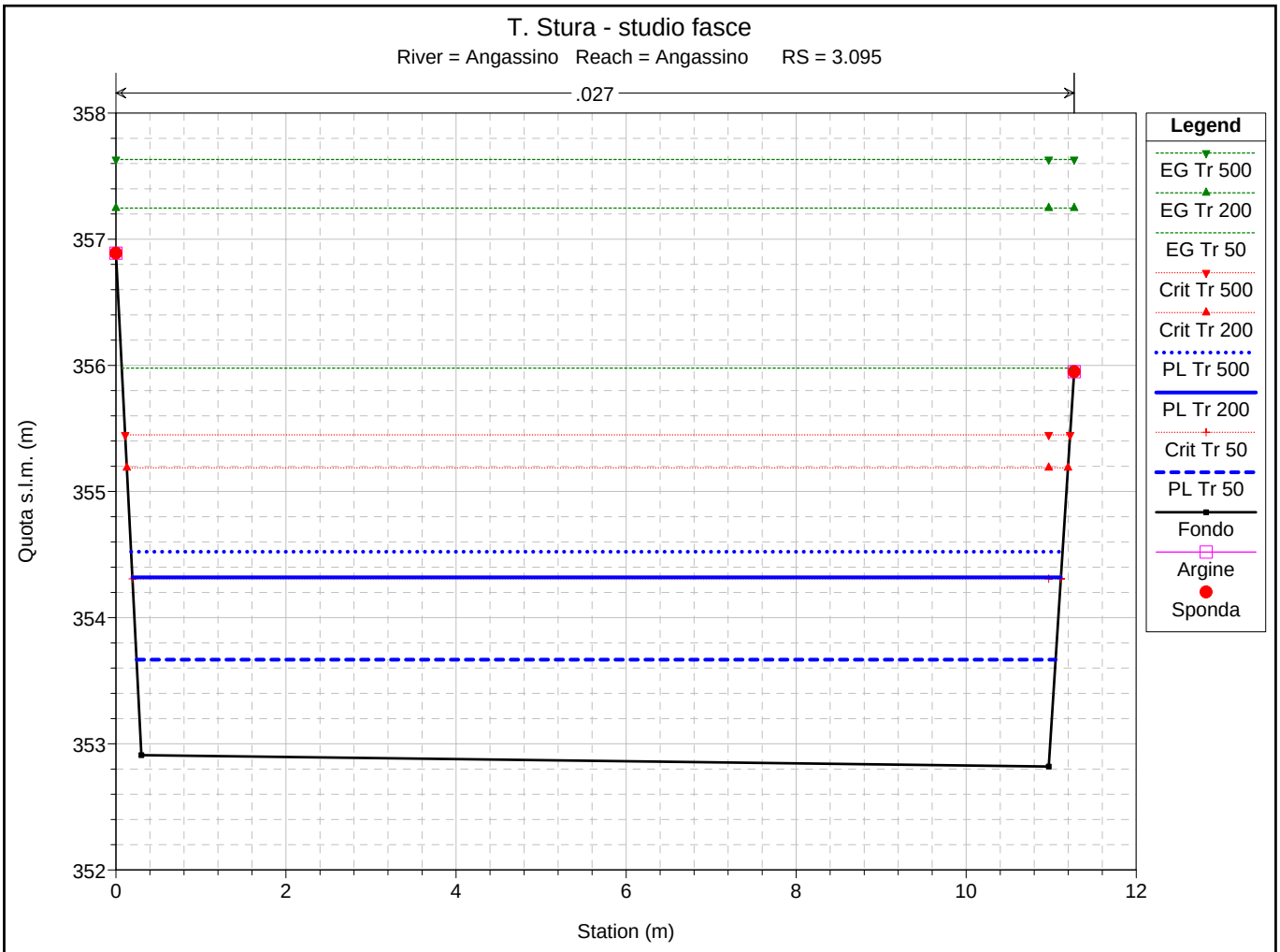

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.1025 BR
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

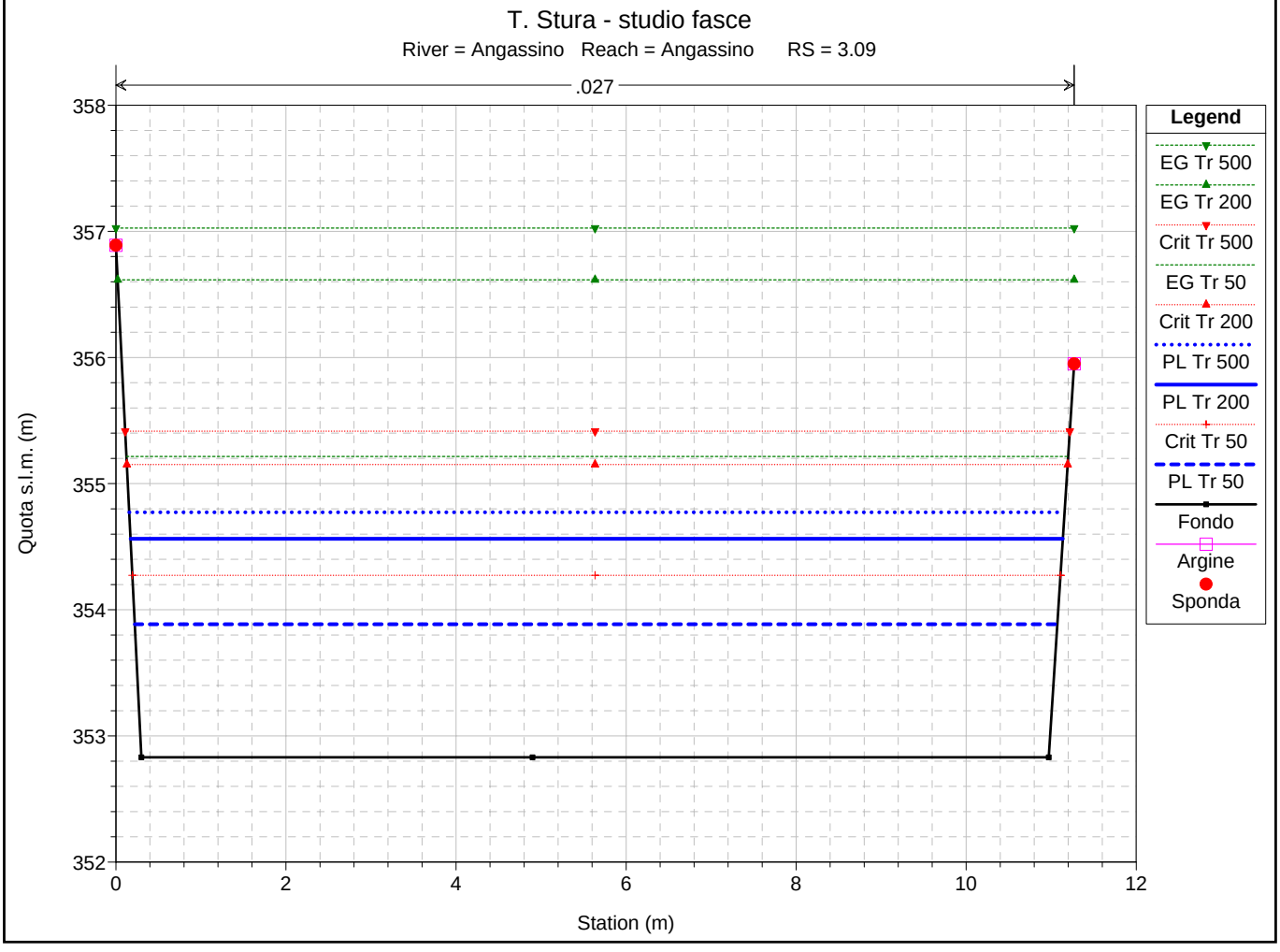

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.1025 BR
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

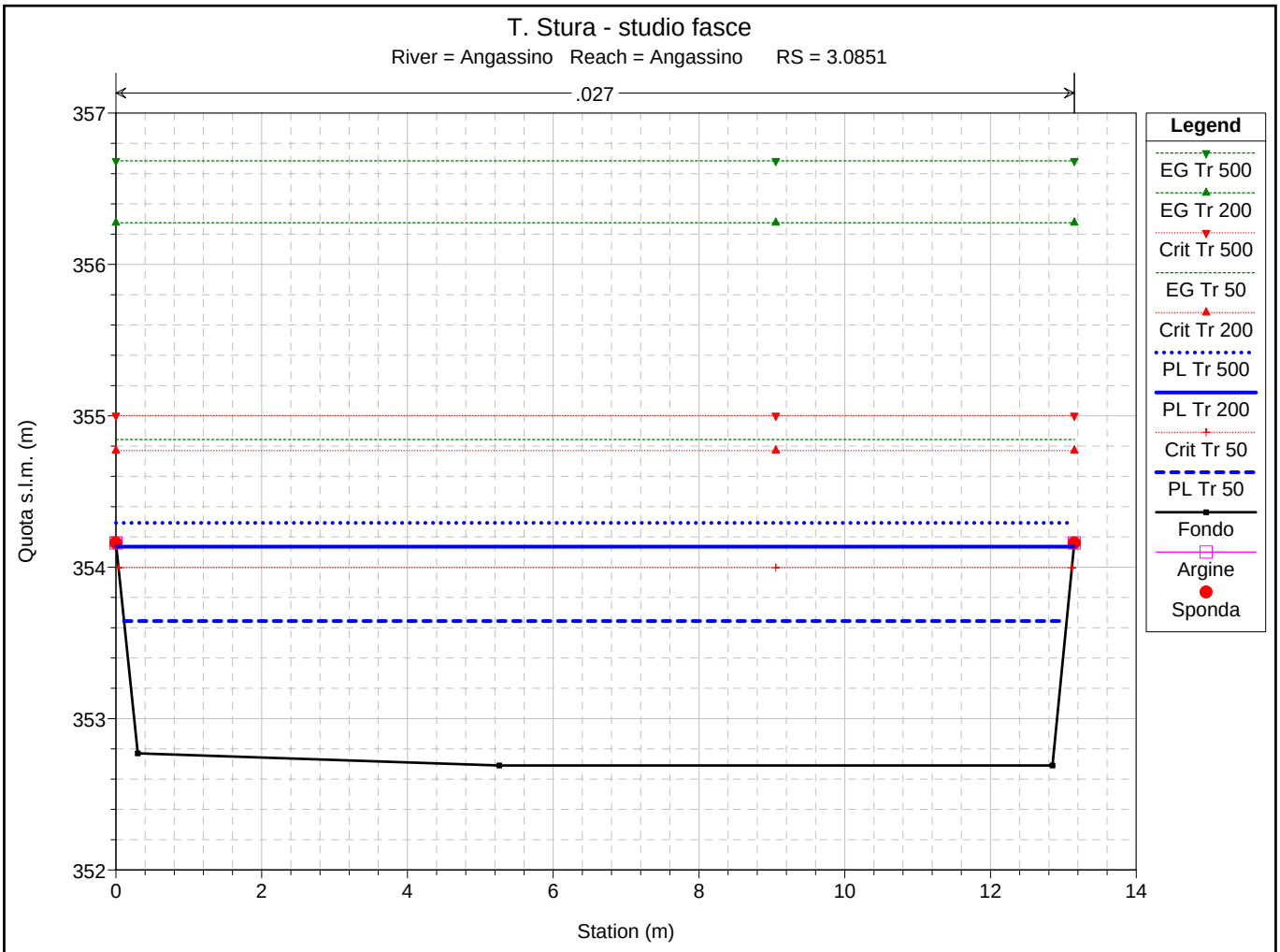

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.10
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

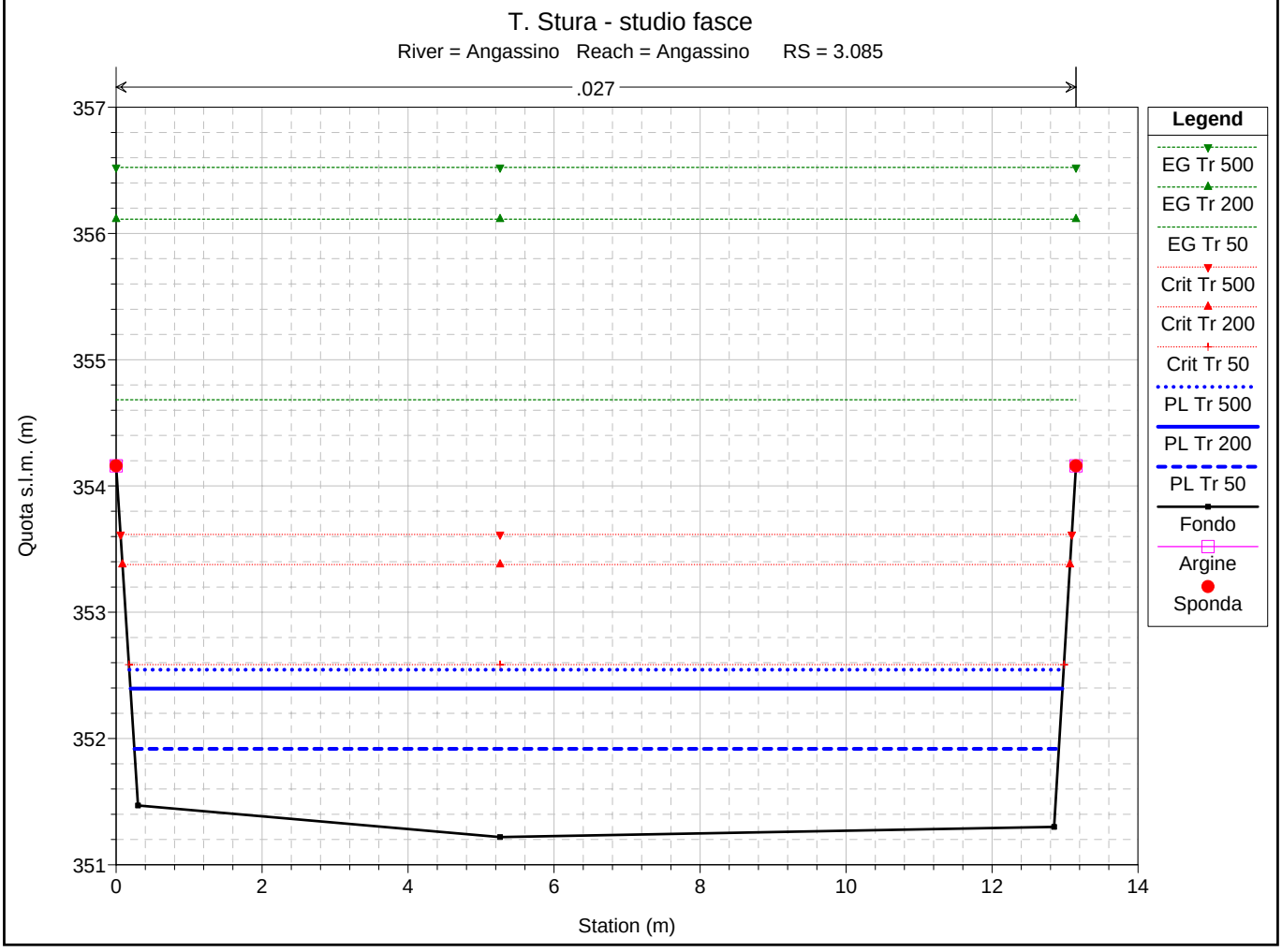

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.099
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
PL Tr 200
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

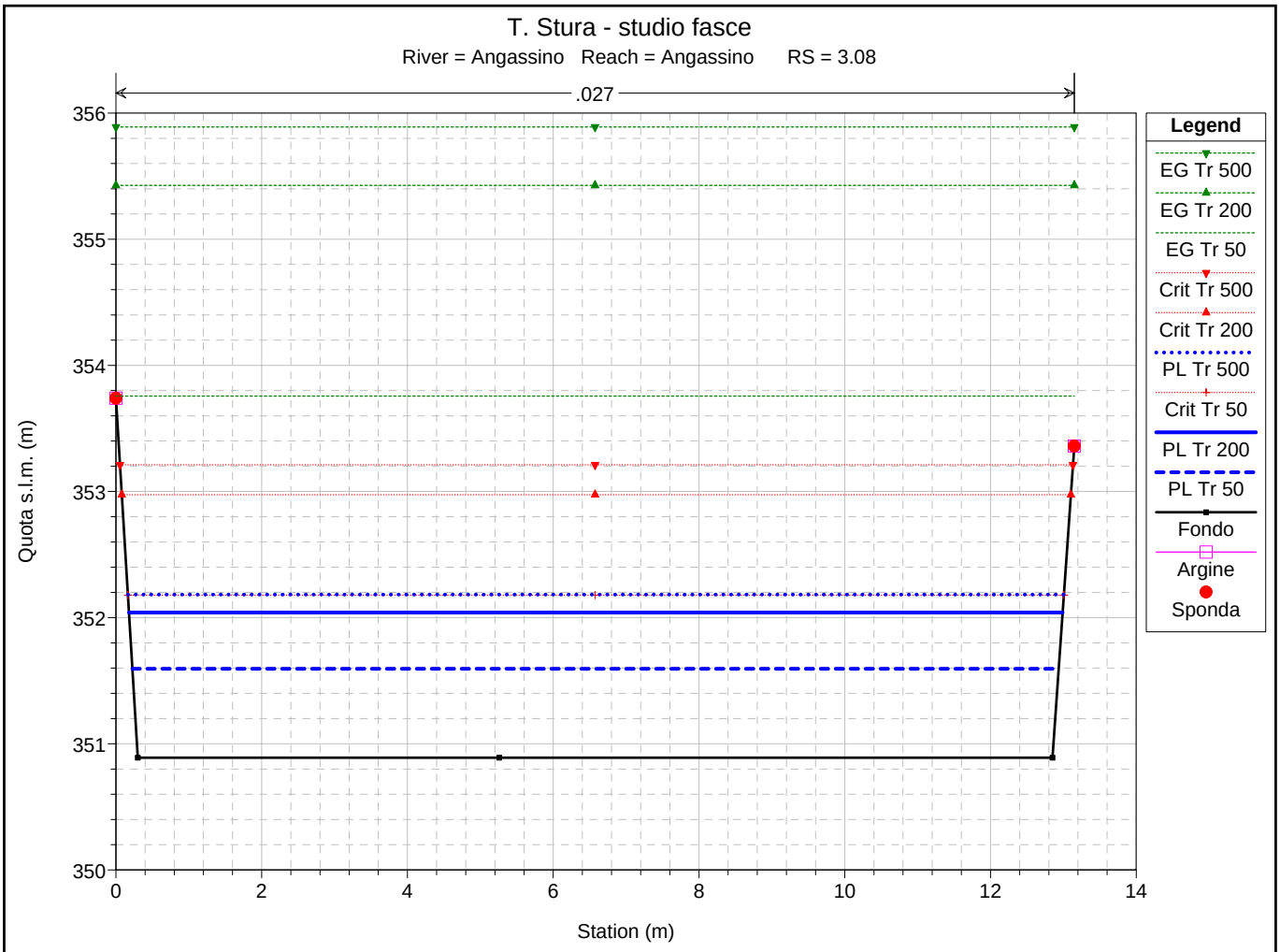

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.0951
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

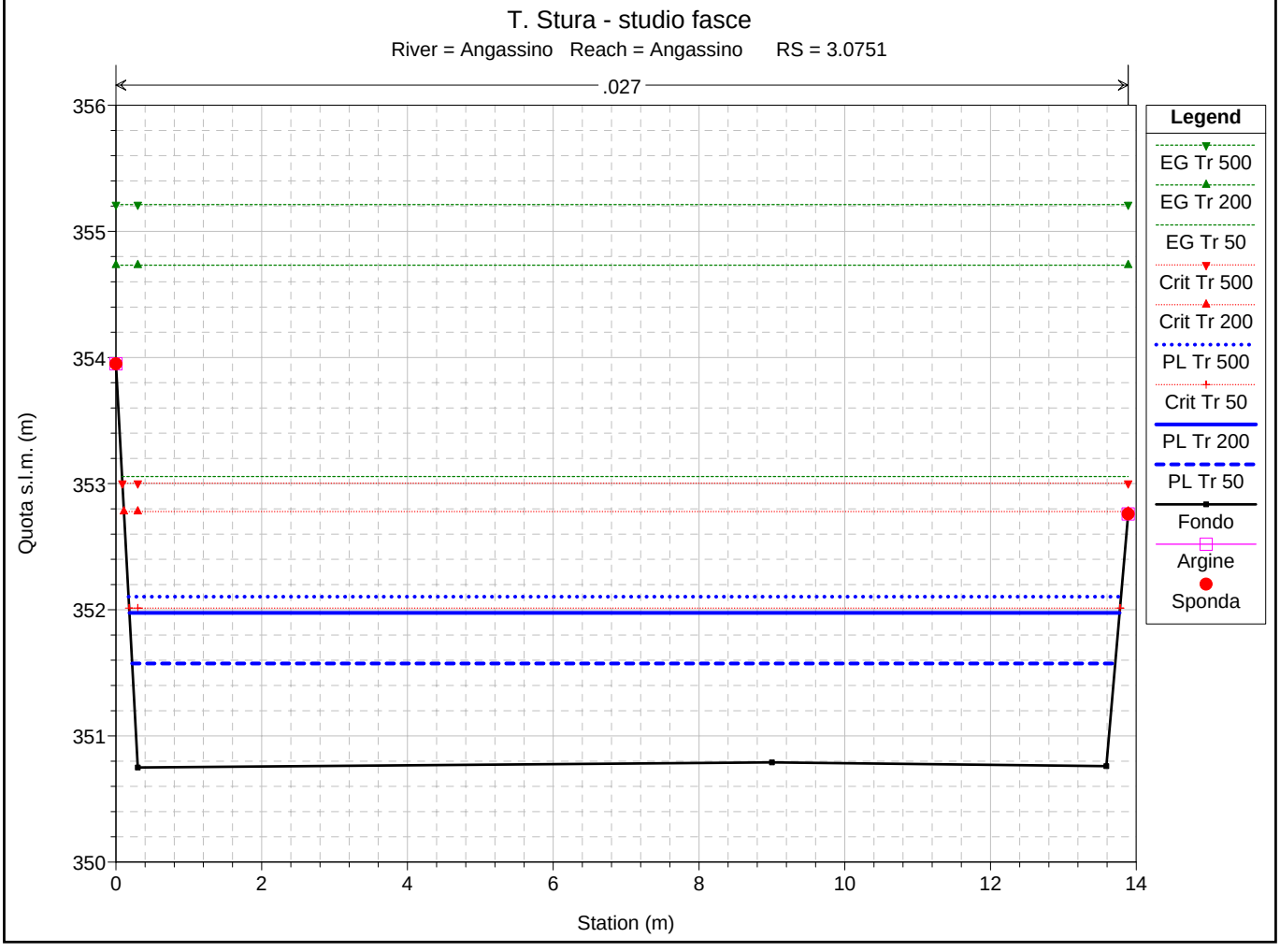

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.095
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

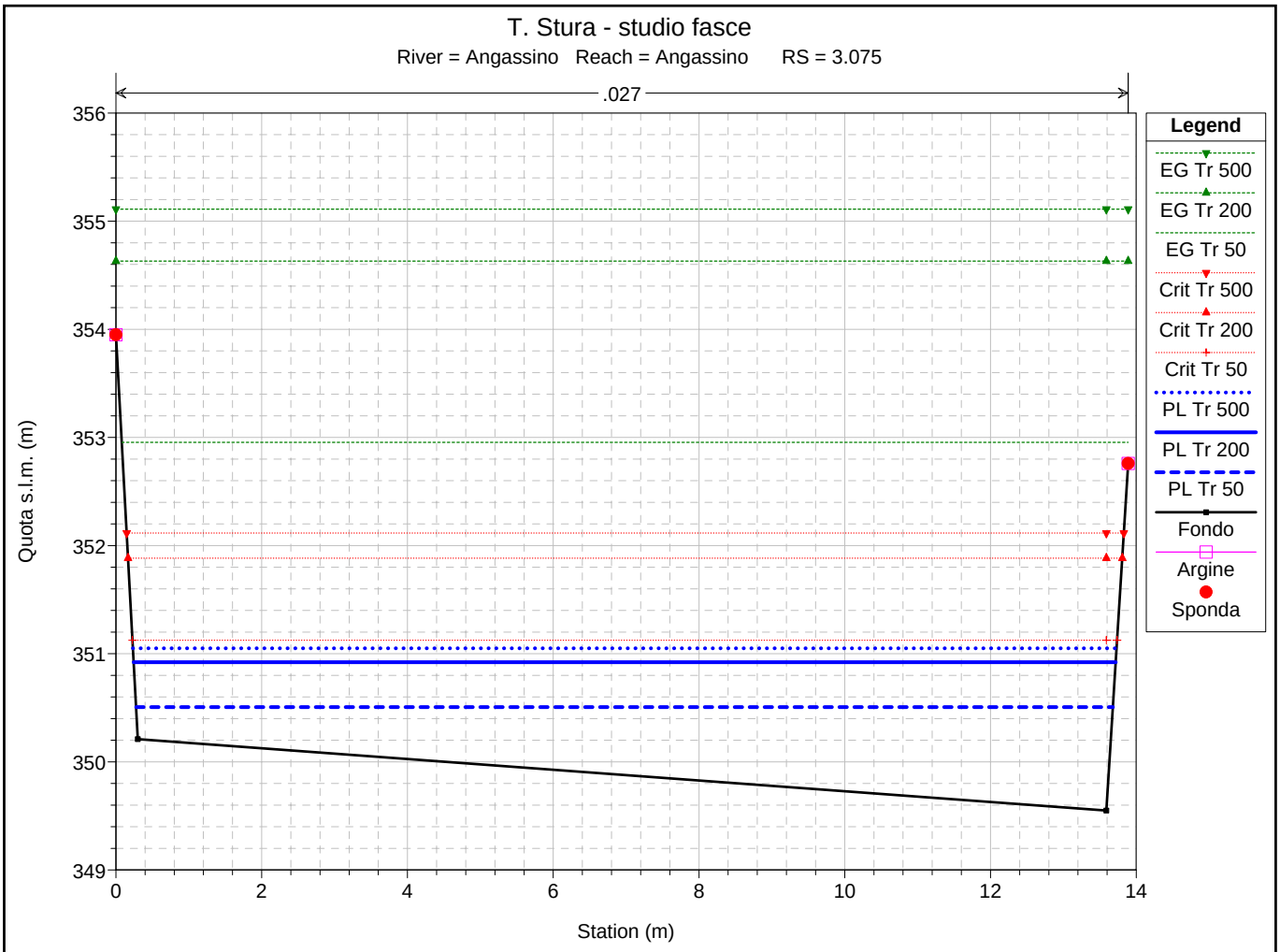

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.09
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

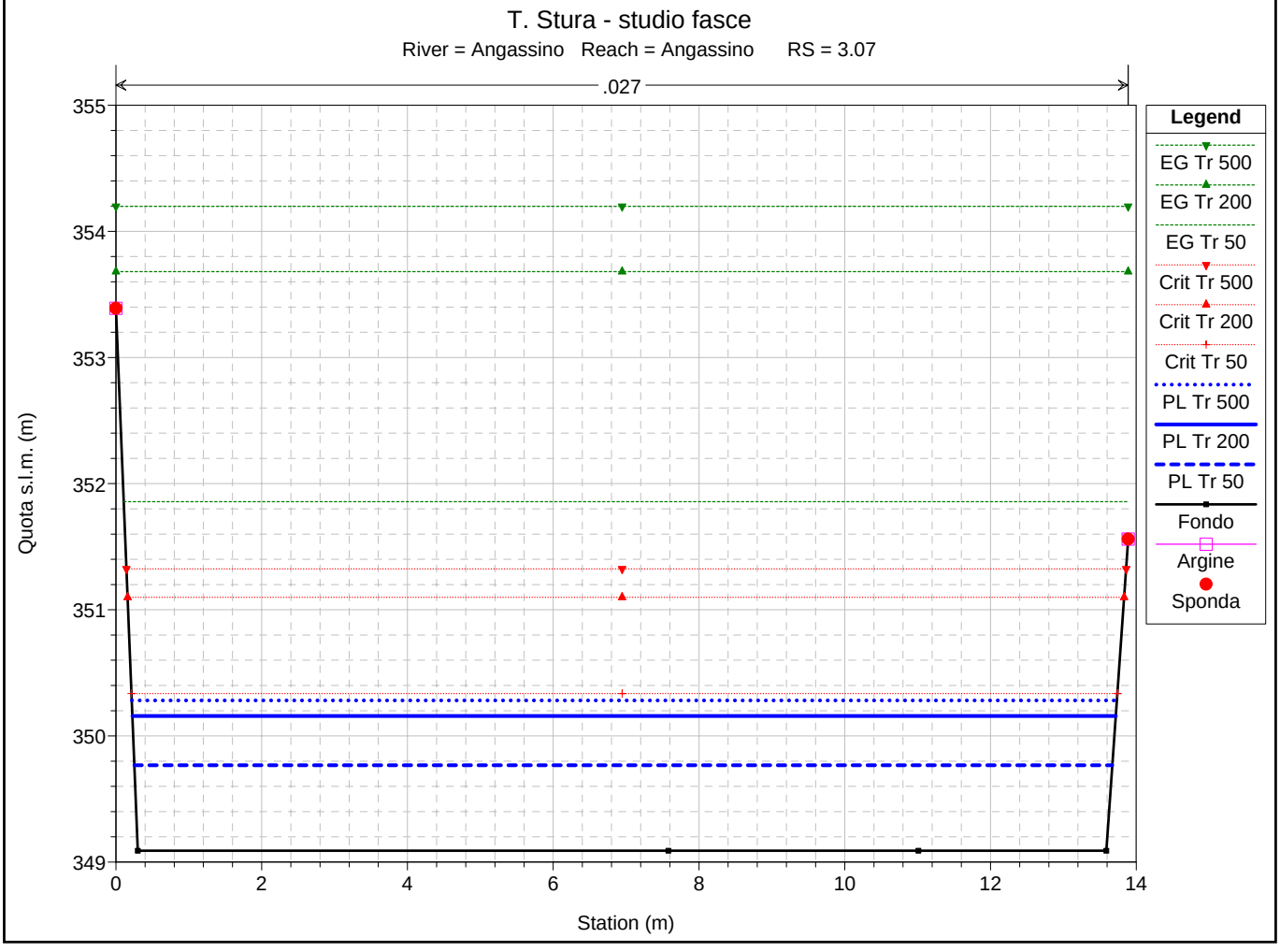

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.0851
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

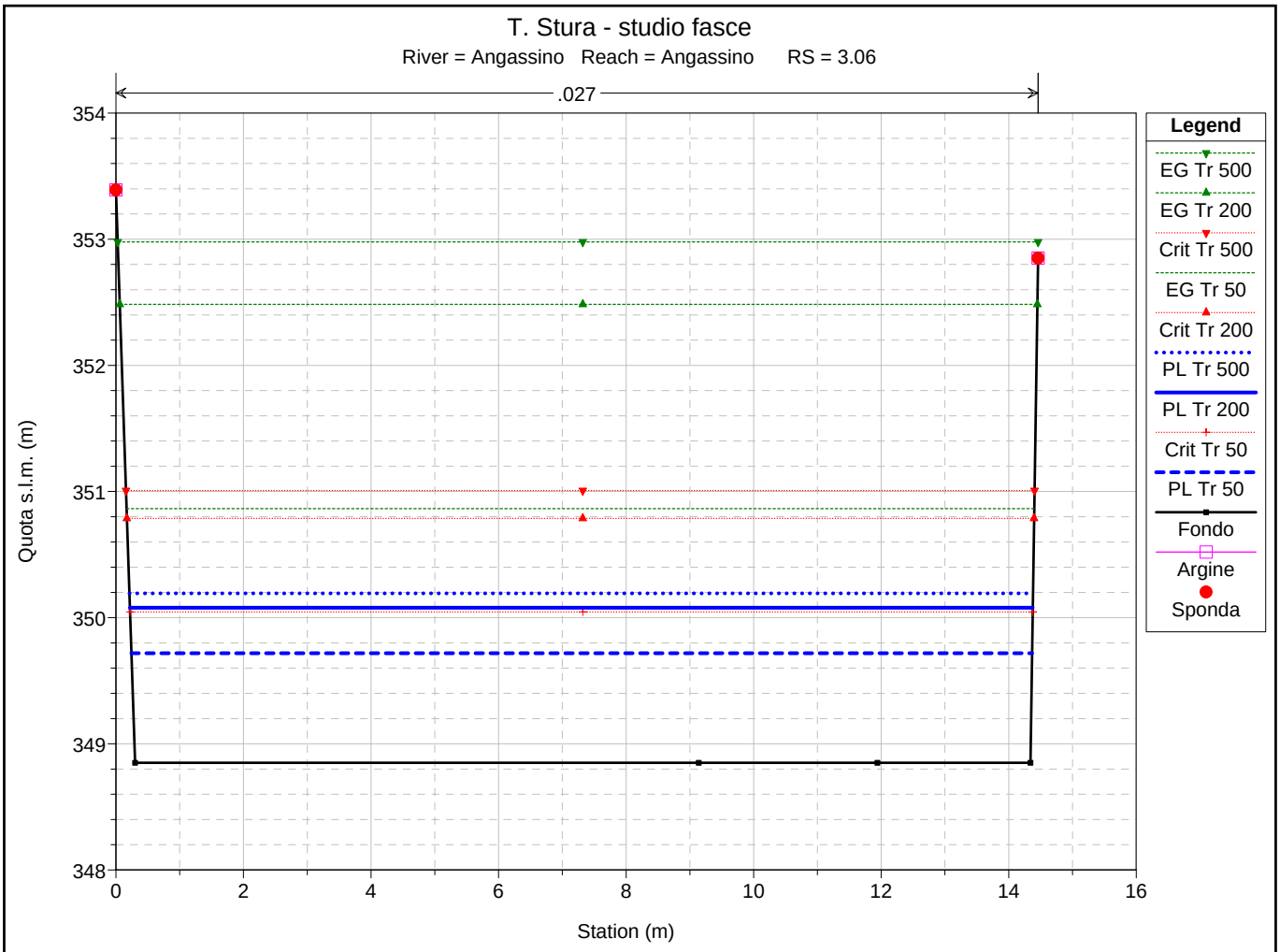

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.085
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

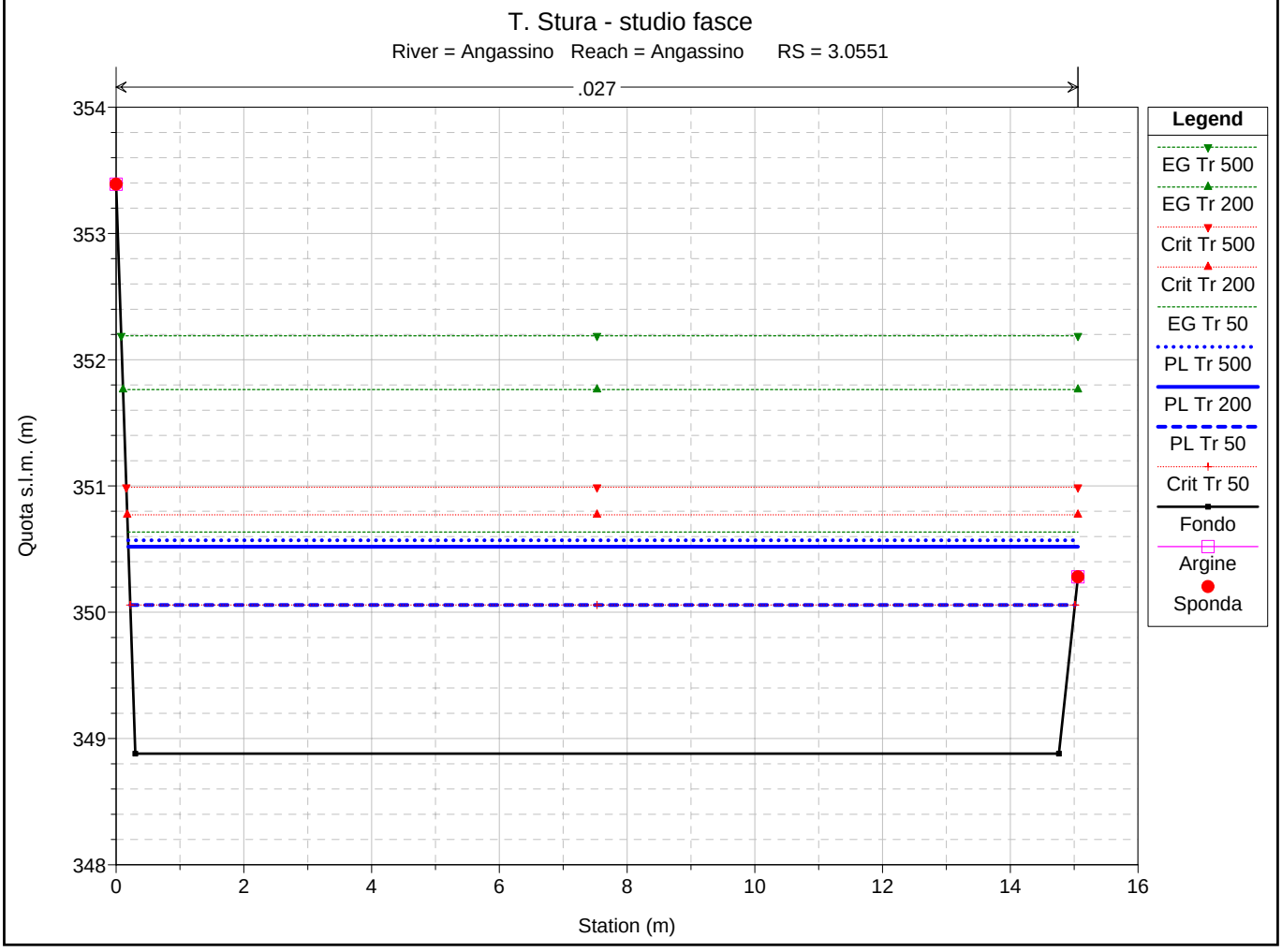

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.08
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

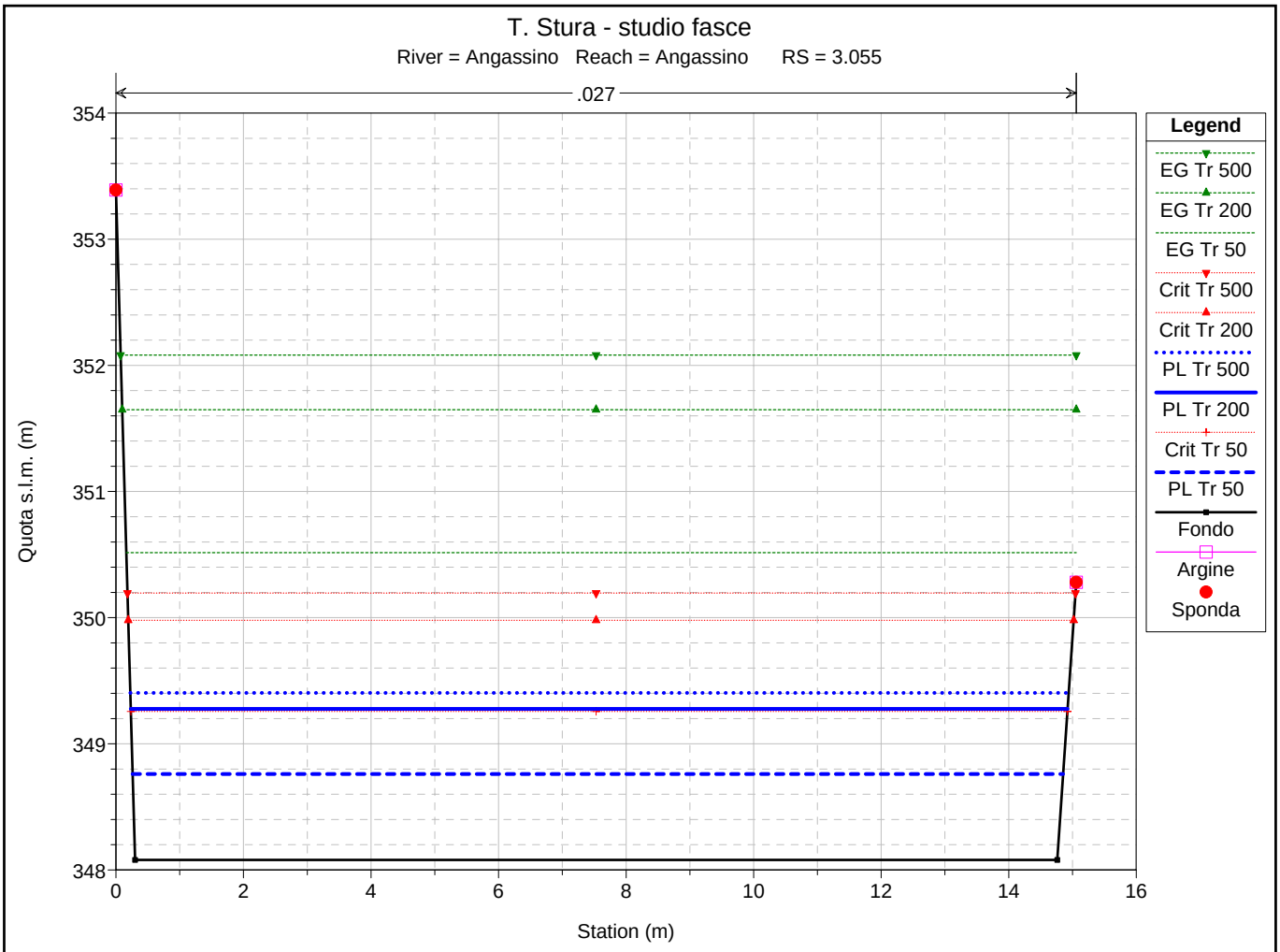

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.0751
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

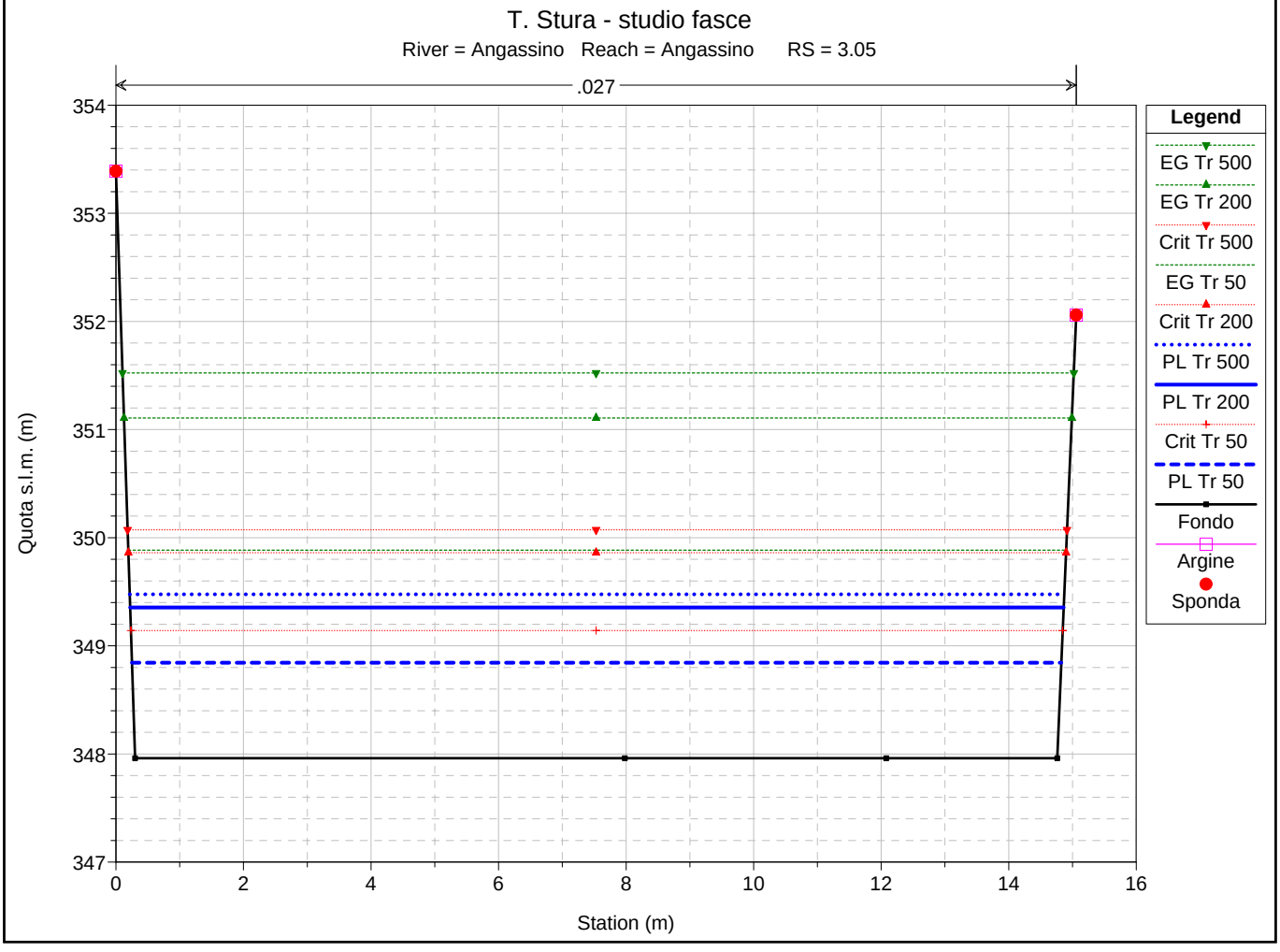

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.075
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

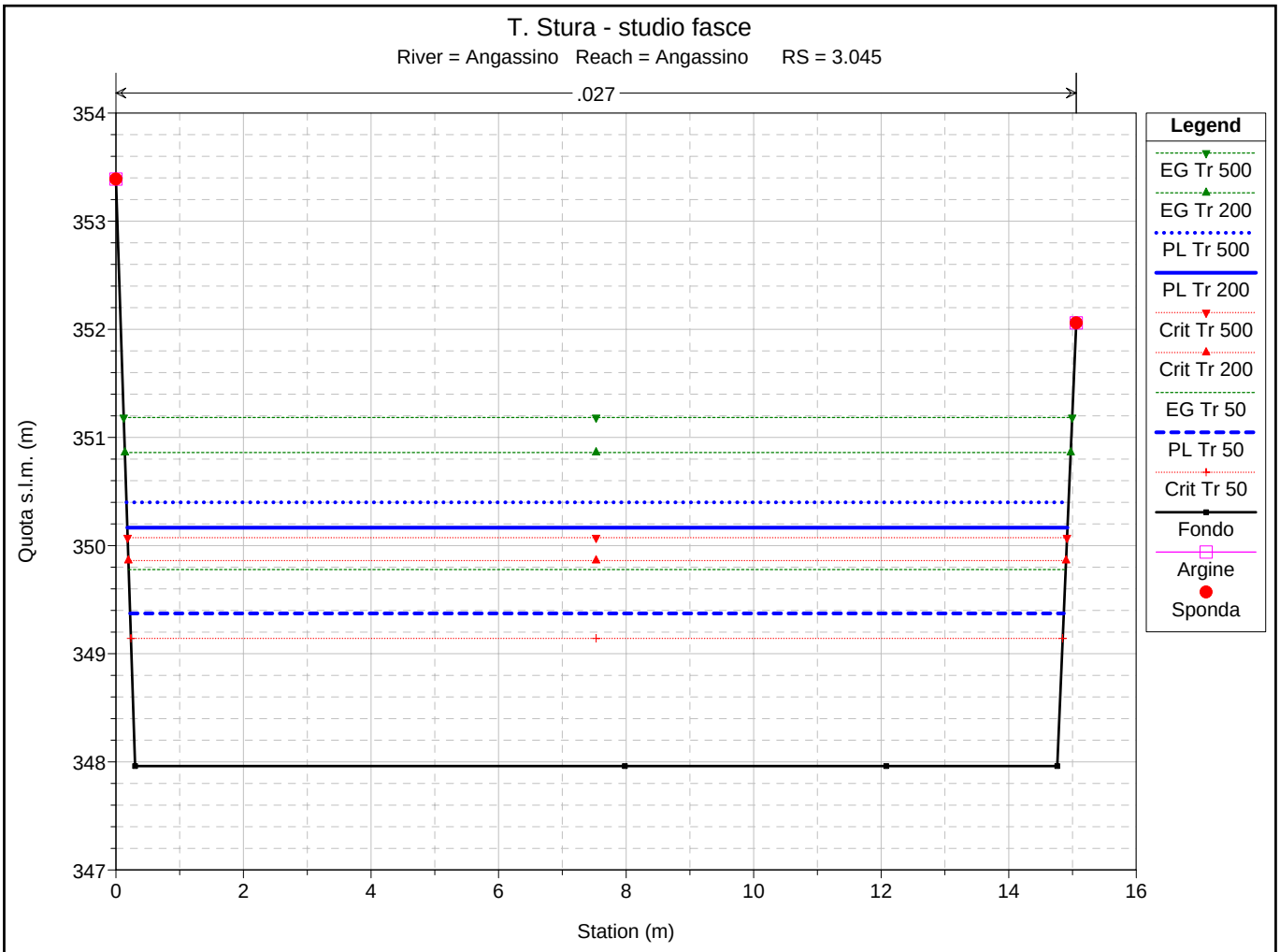

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.07
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda

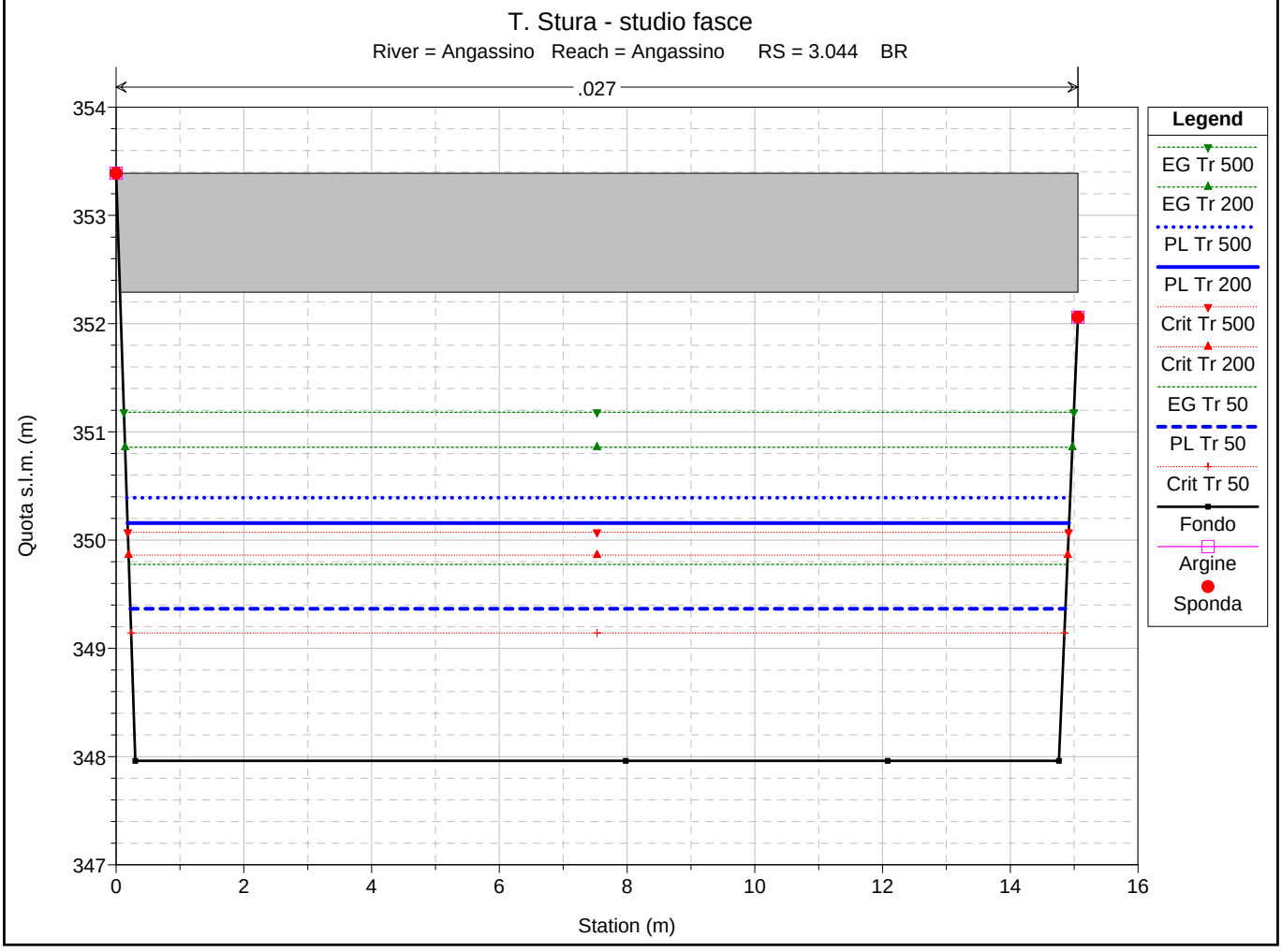

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.06
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

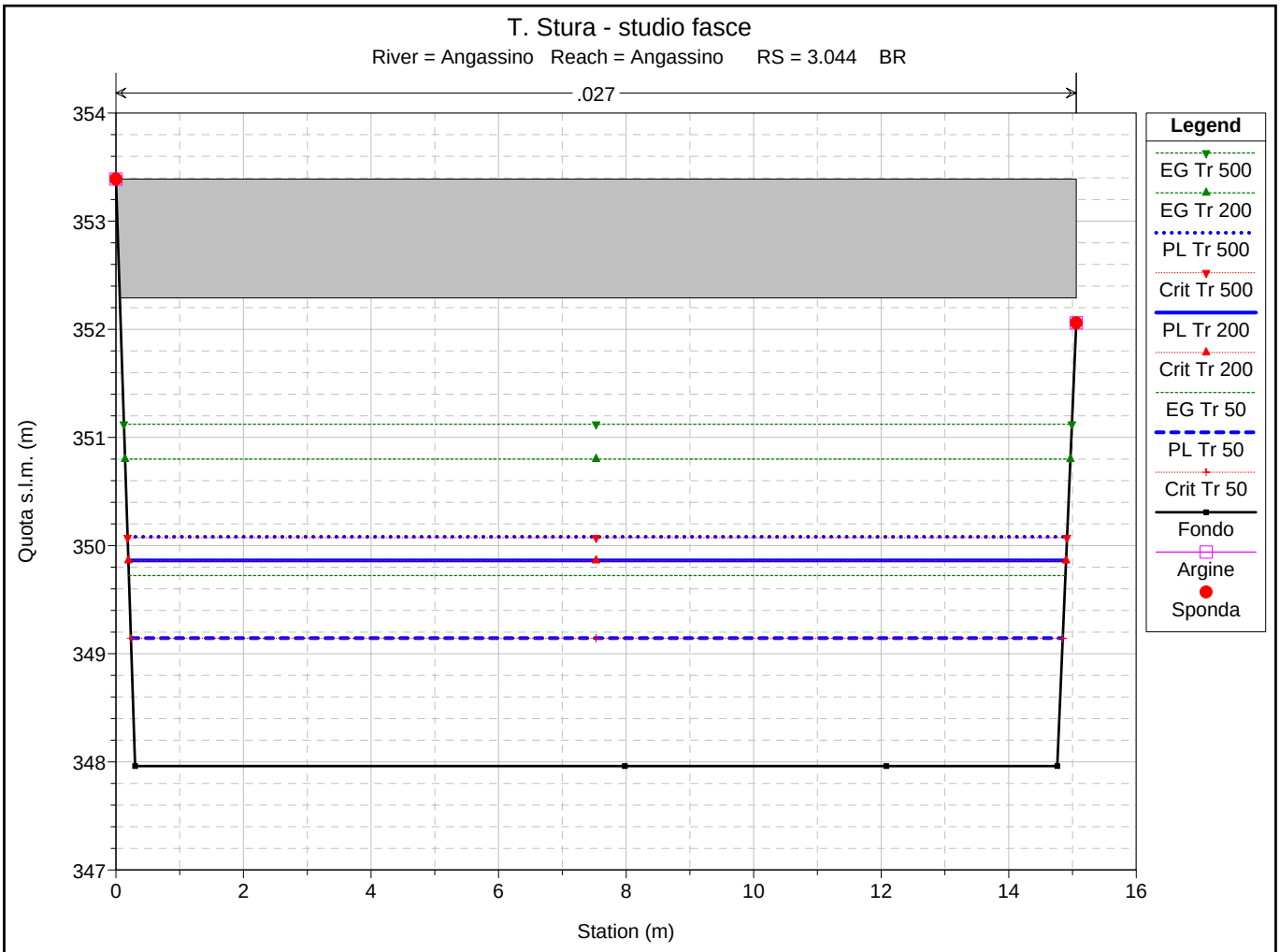

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.0551
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

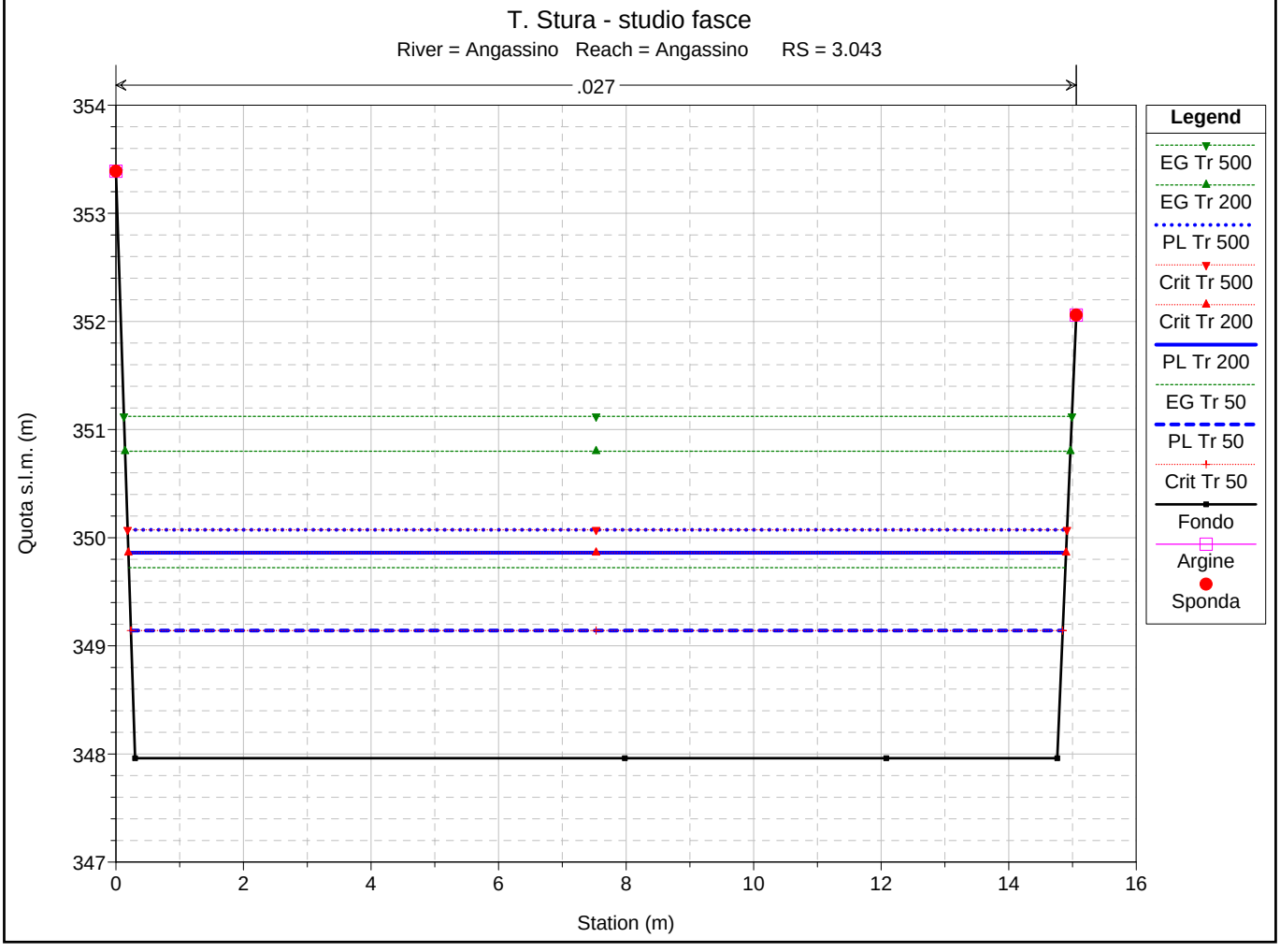

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.055
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

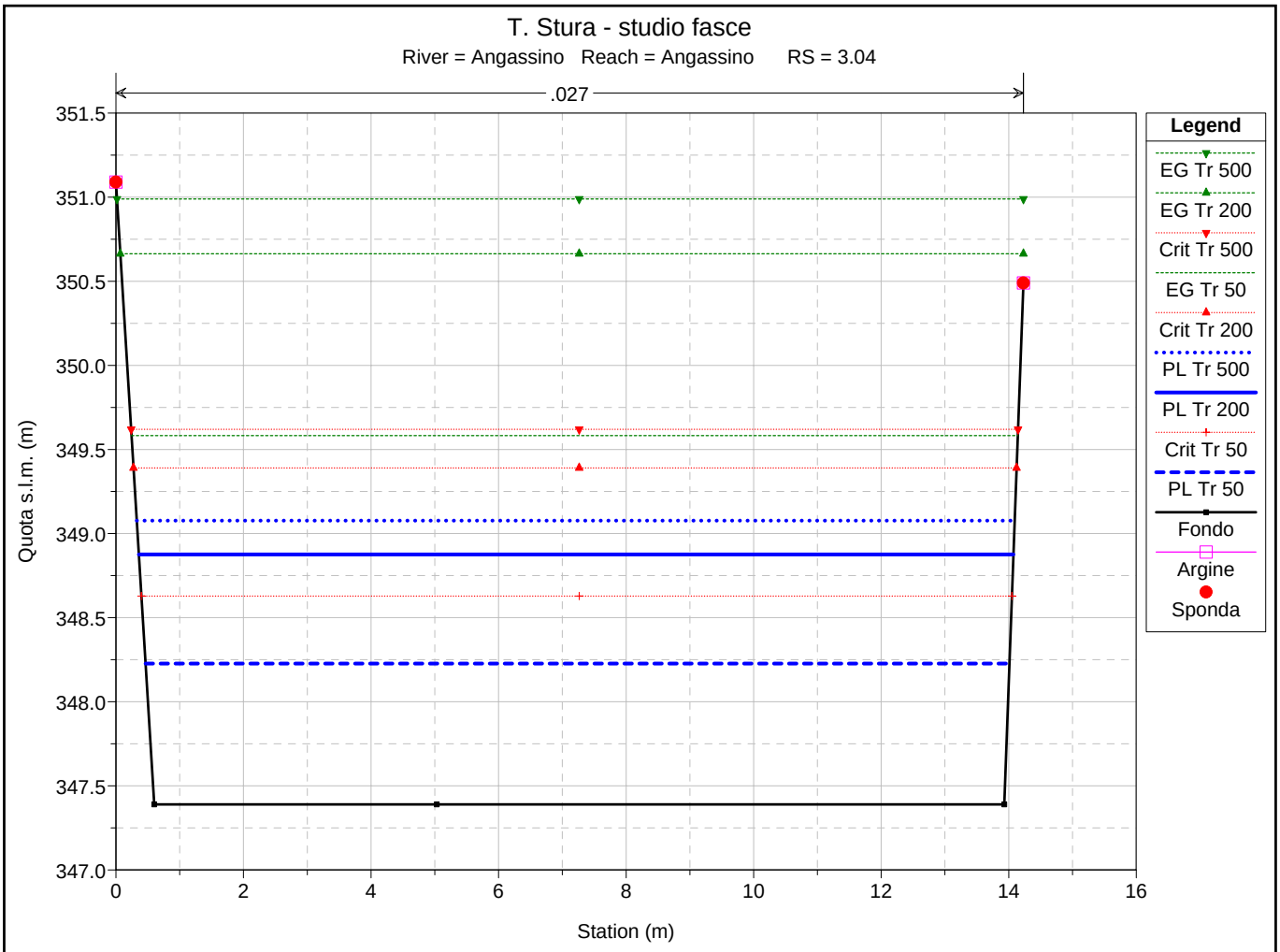

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.05
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

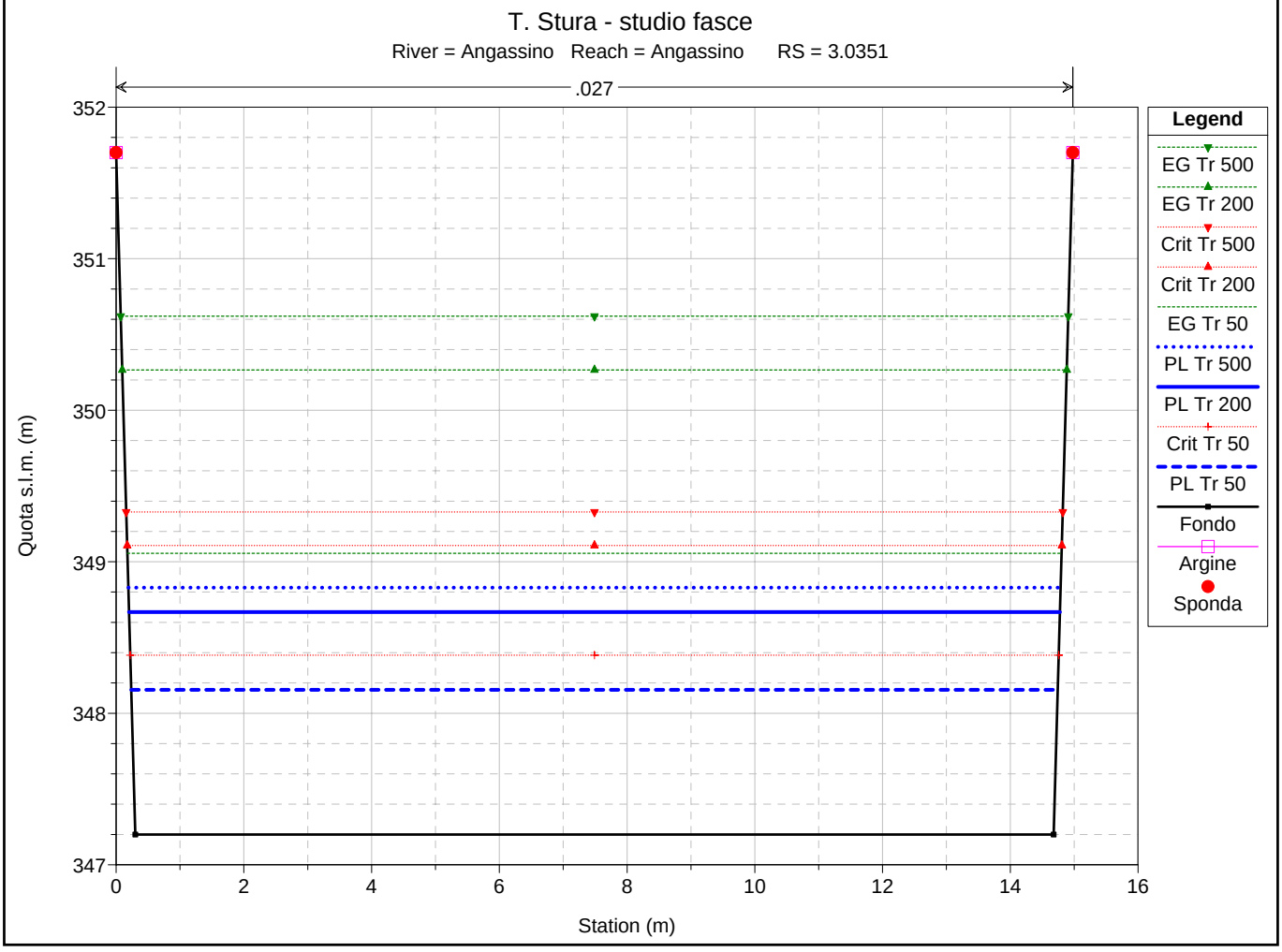

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.045
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

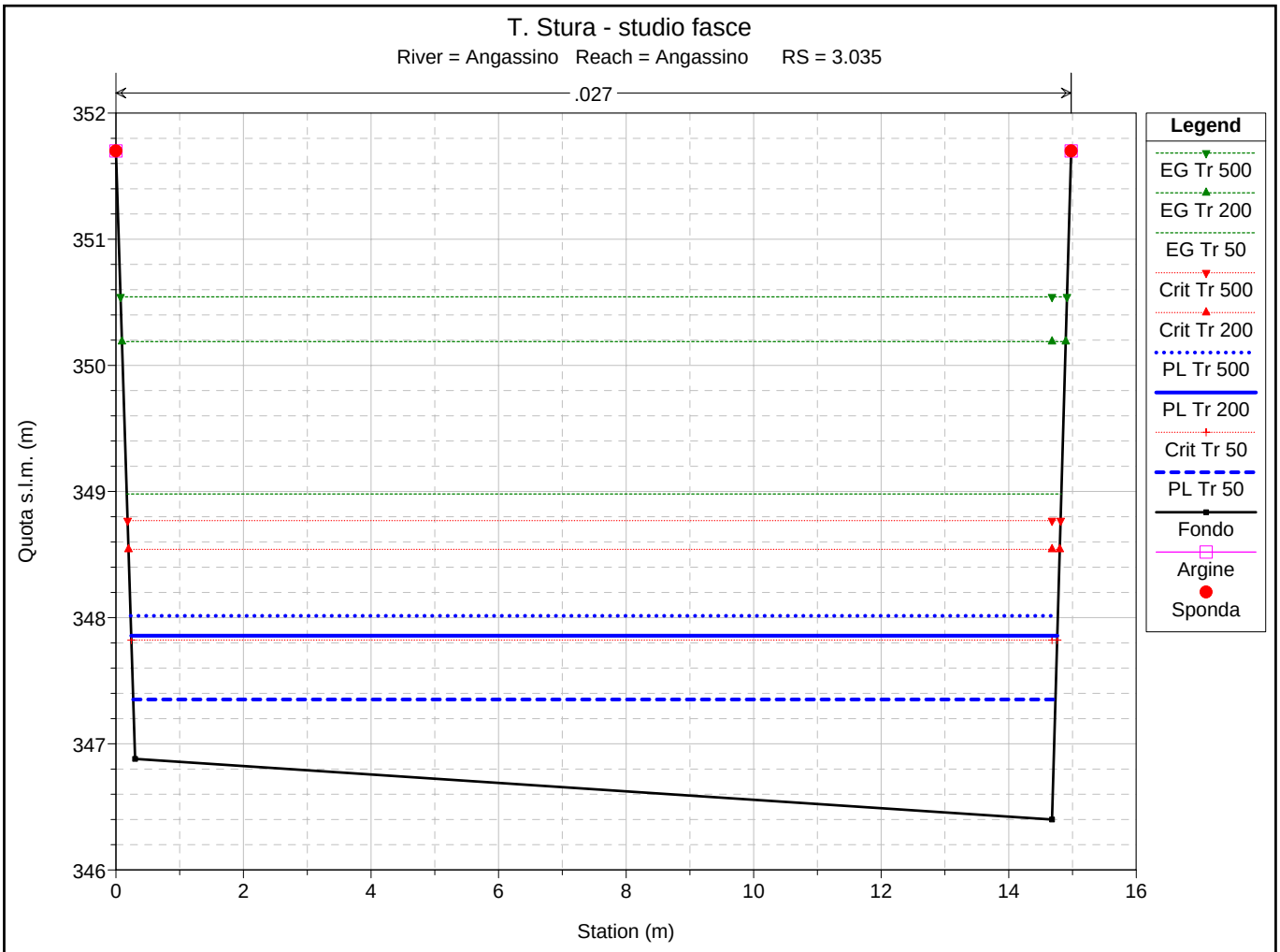

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.044 BR
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

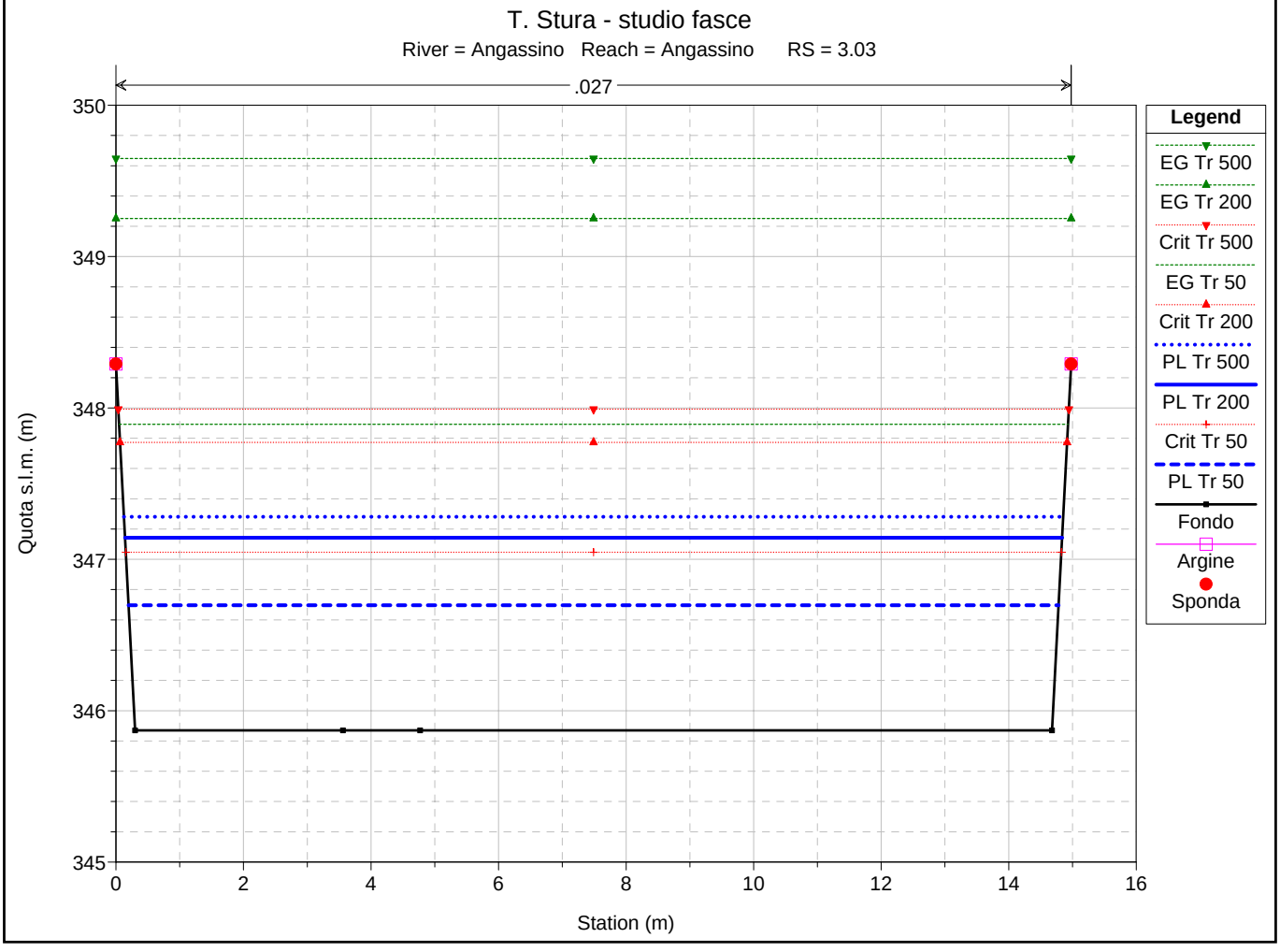

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.044 BR
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
PL Tr 200
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

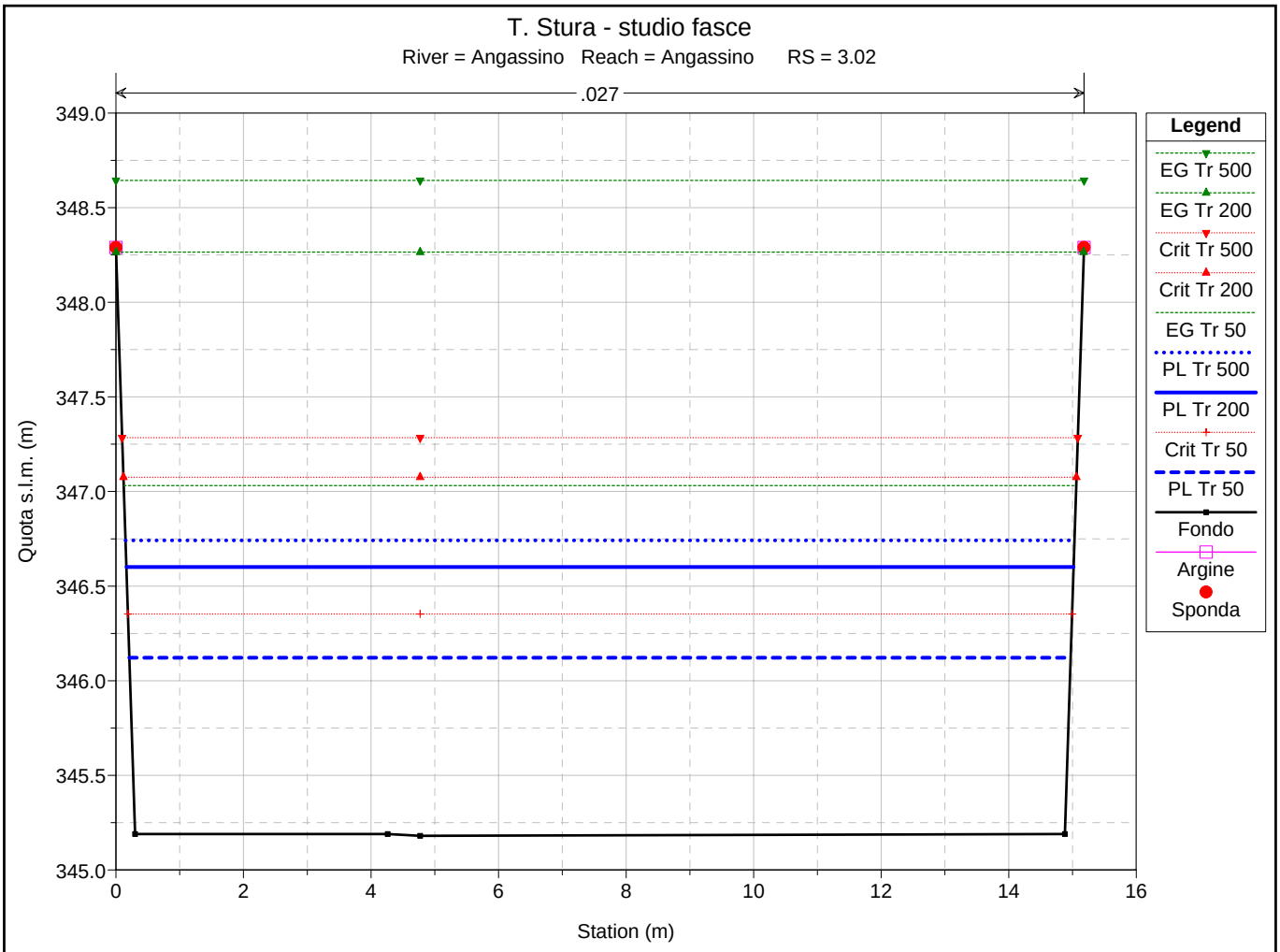

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.043
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Argine
Sponda

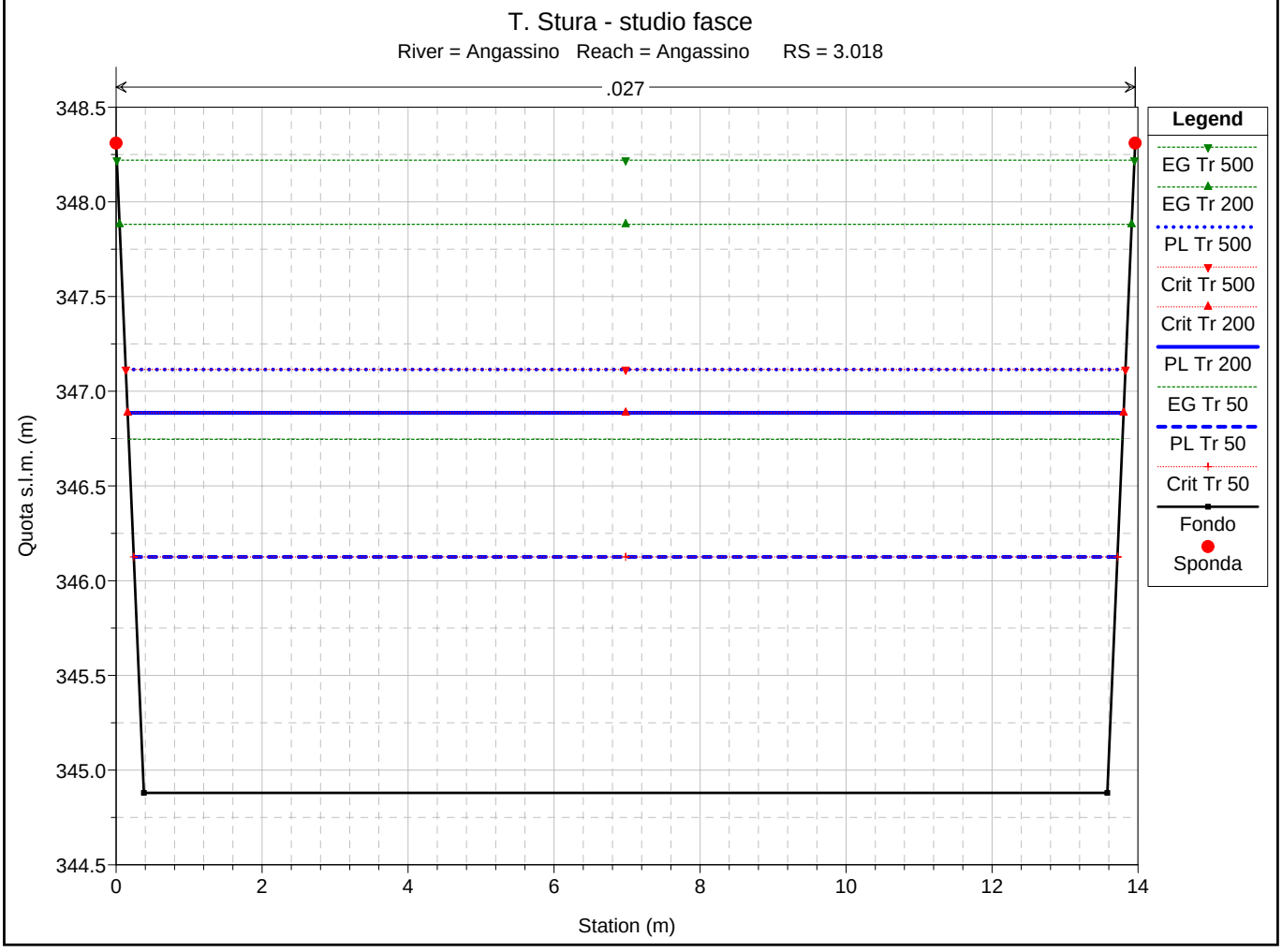

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.04
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

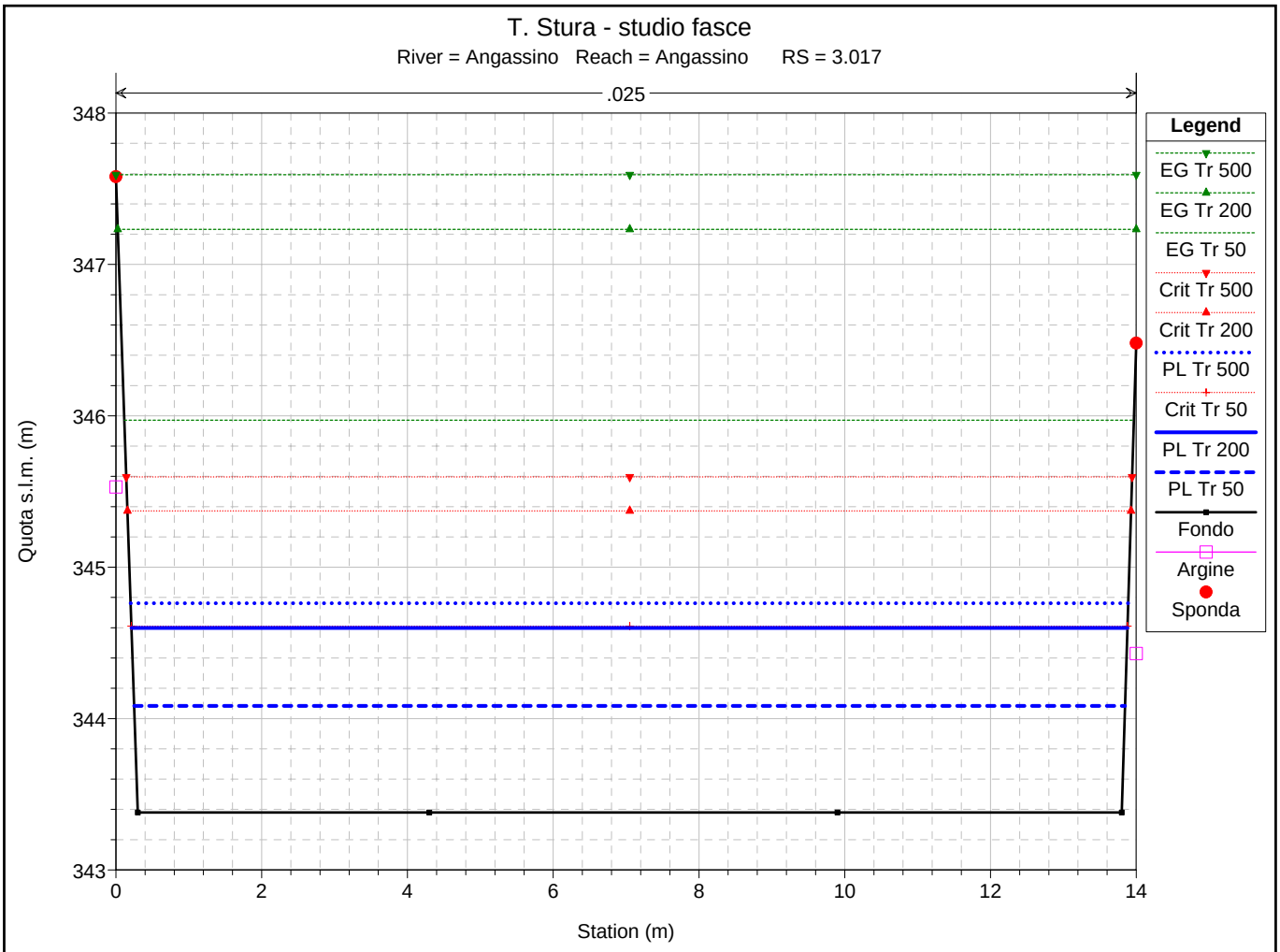

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.0351
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

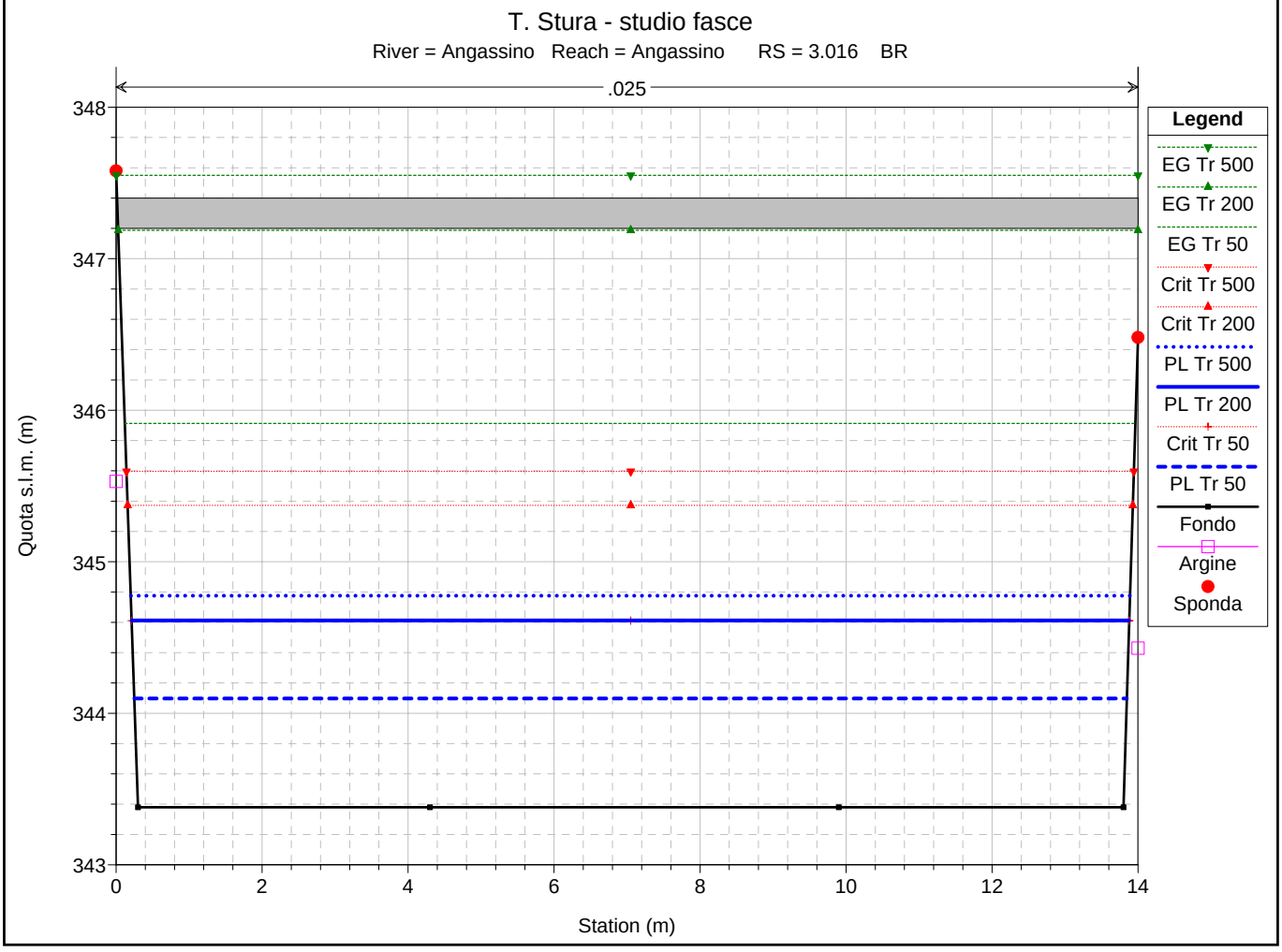

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.035
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

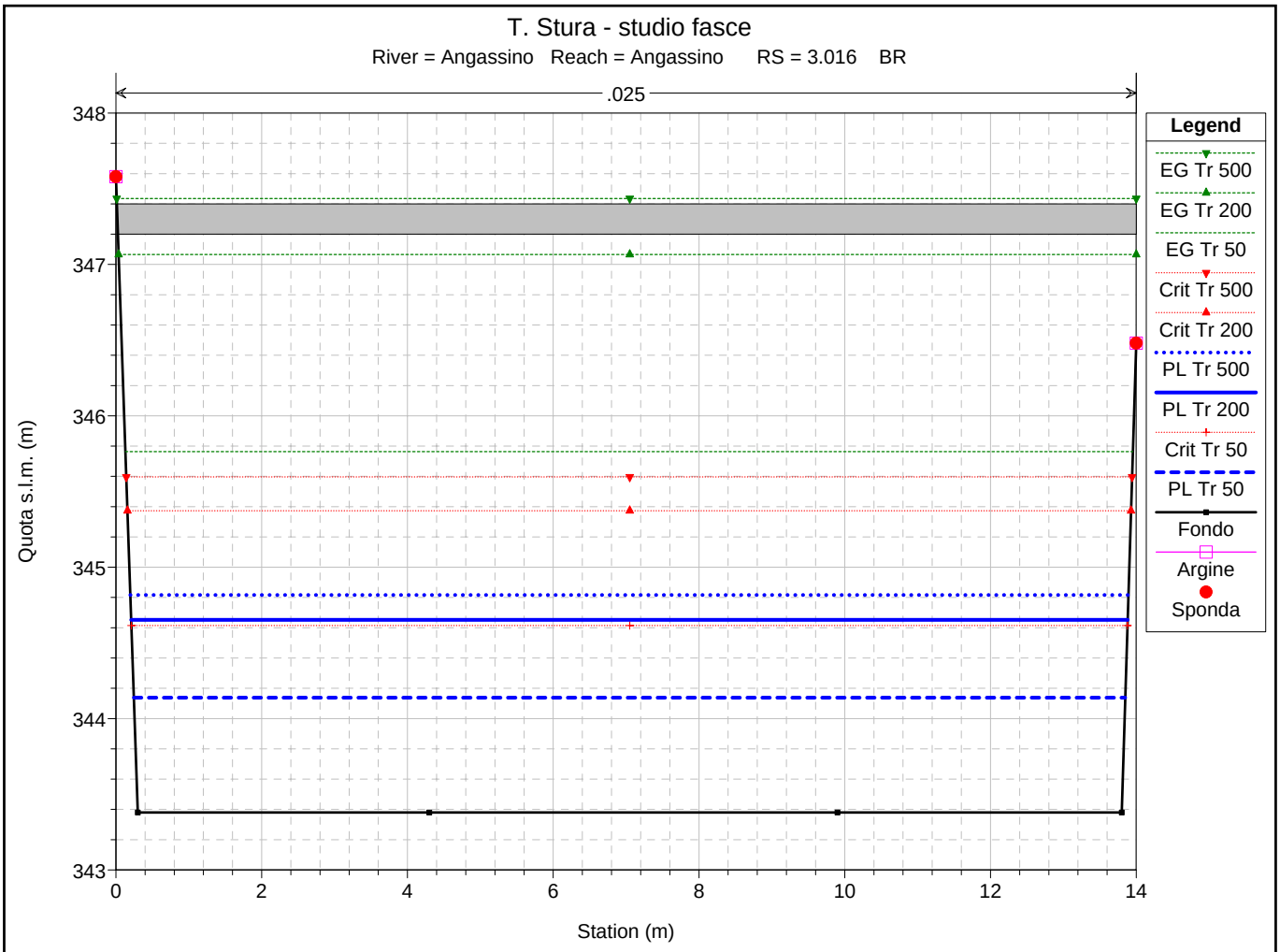

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.03
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

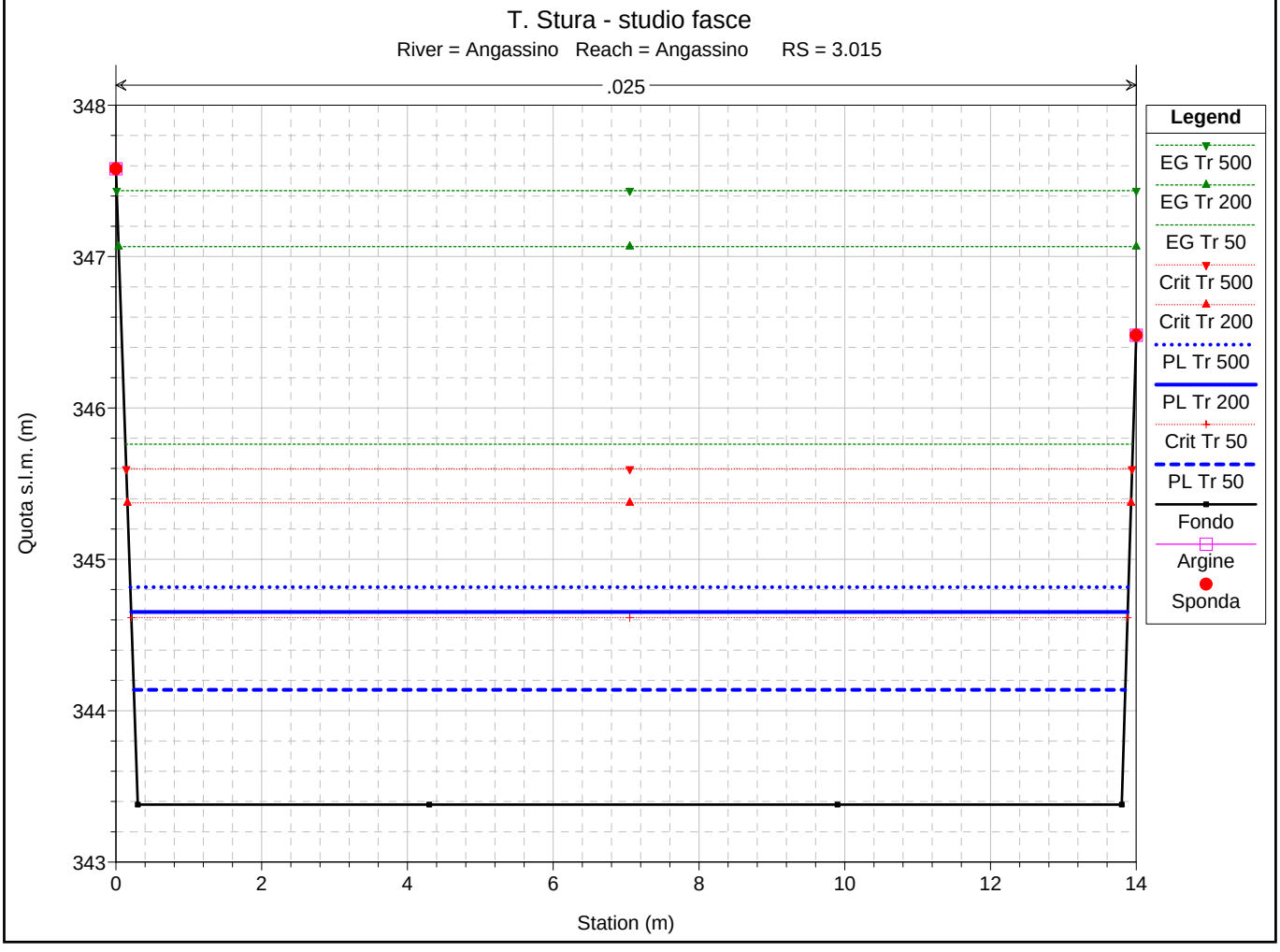

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.02
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda

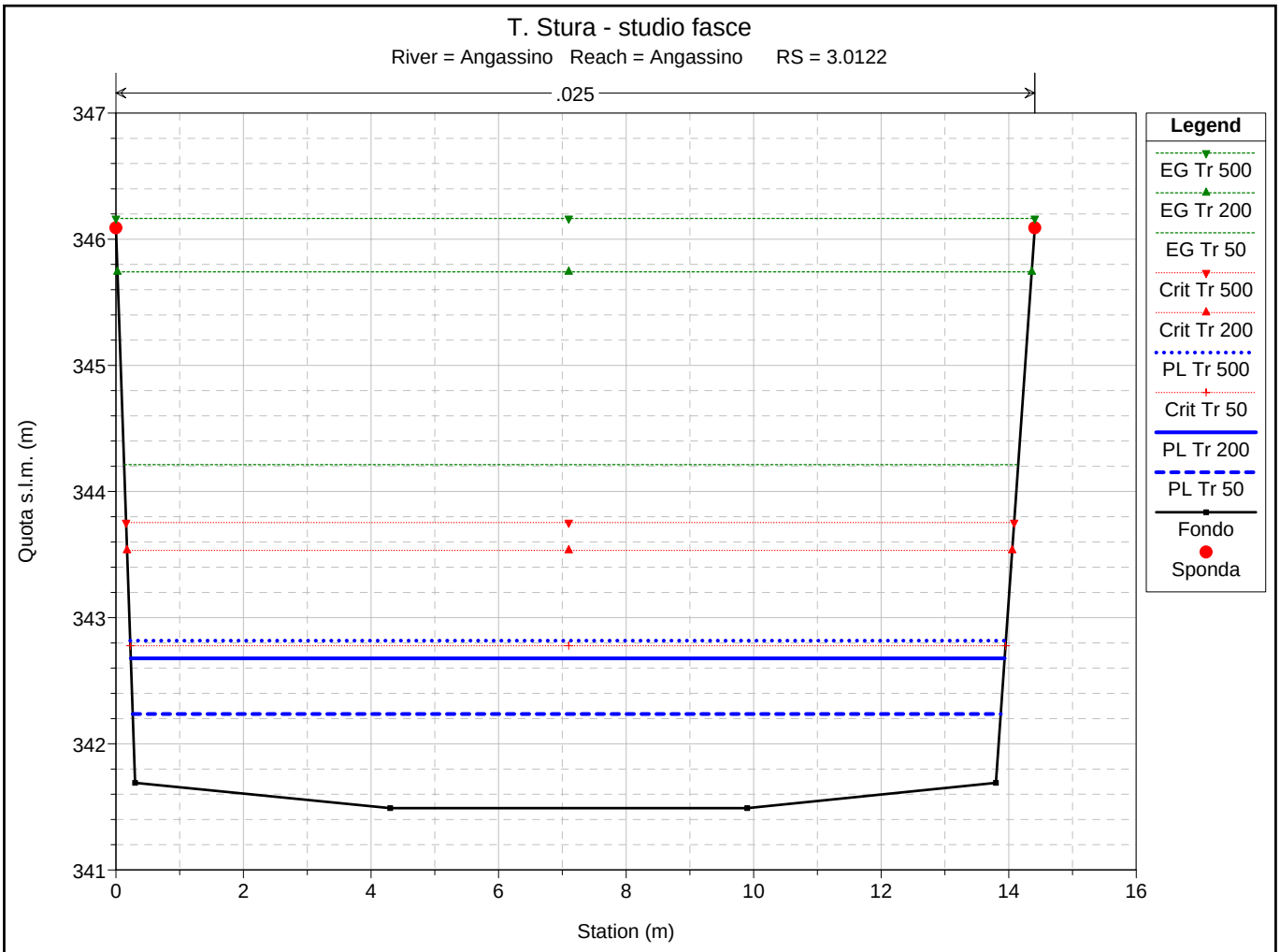

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.018
.027
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Sponda

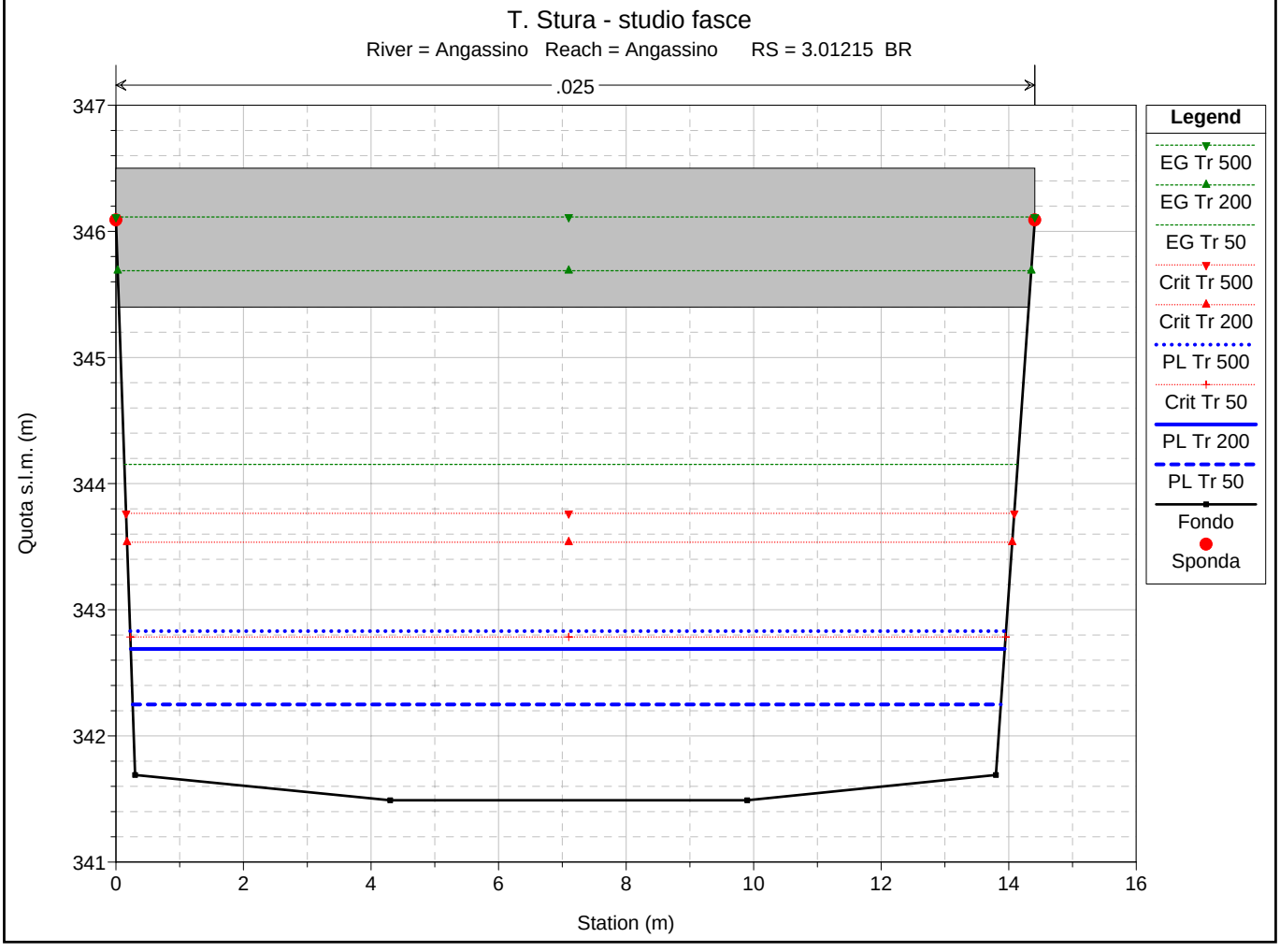

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.017
.025
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Argine
Sponda
Quota s.l.m. (m)
Station (m)
348
347
346
345
344
343
0
2
4
6
8
10
12
14

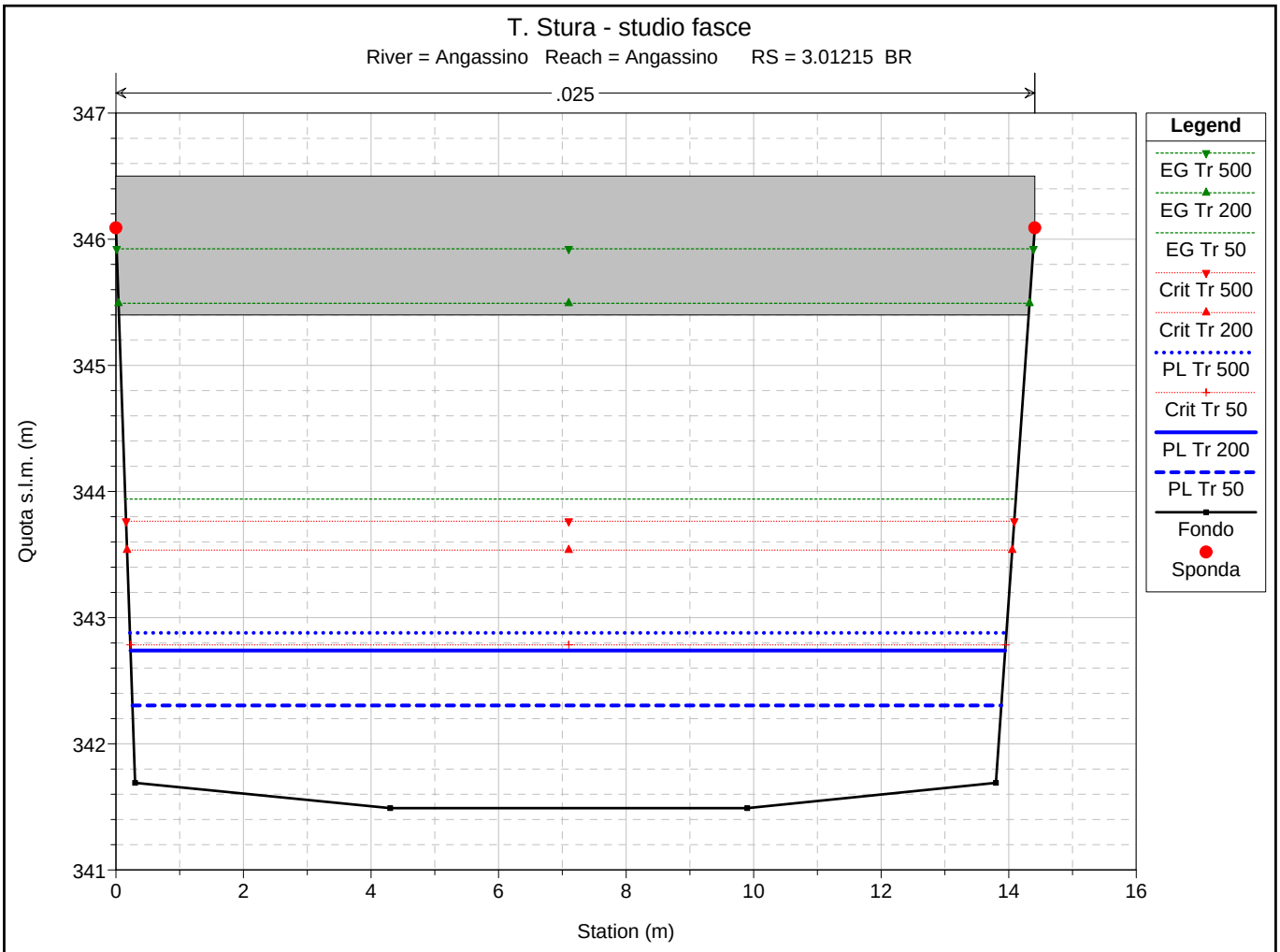

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.016 BR
.025
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda
Quota s.l.m. (m)
Station (m)
348
347
346
345
344
343
0
2
4
6
8
10
12
14

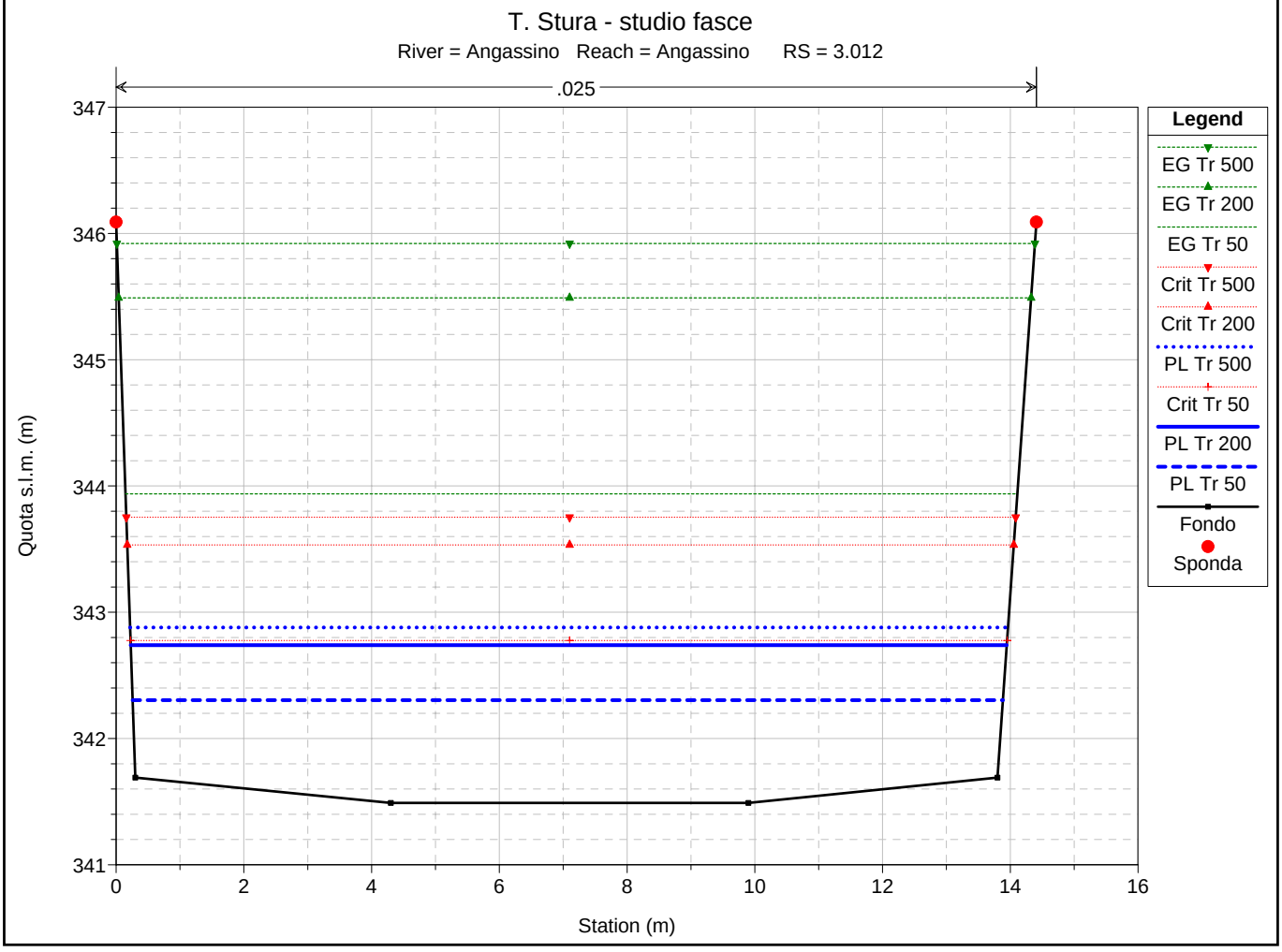

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.016 BR
.025
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda
Quota s.l.m. (m)
Station (m)

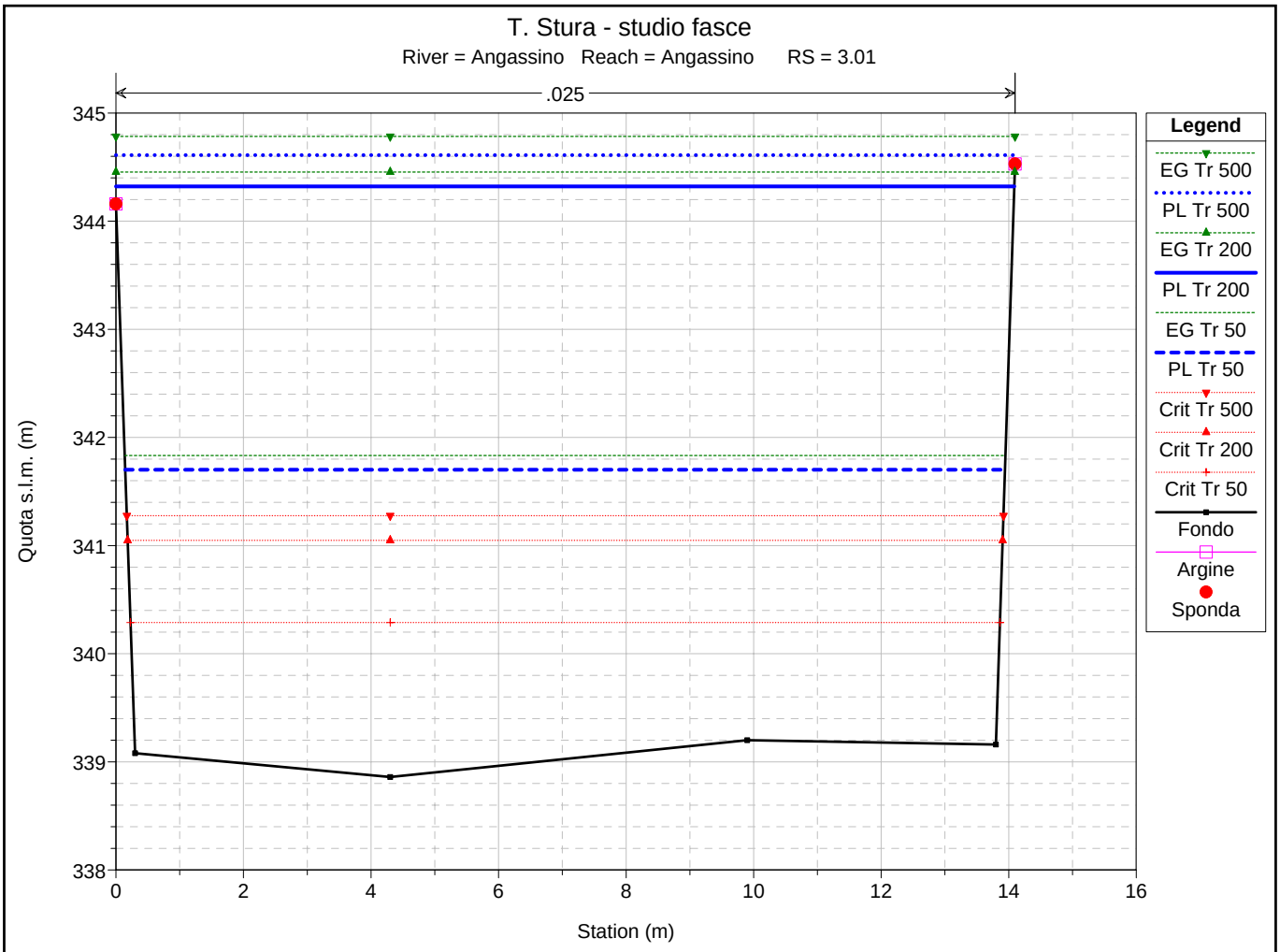

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.015
.025
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Argine
Sponda
Quota s.l.m. (m)
Station (m)

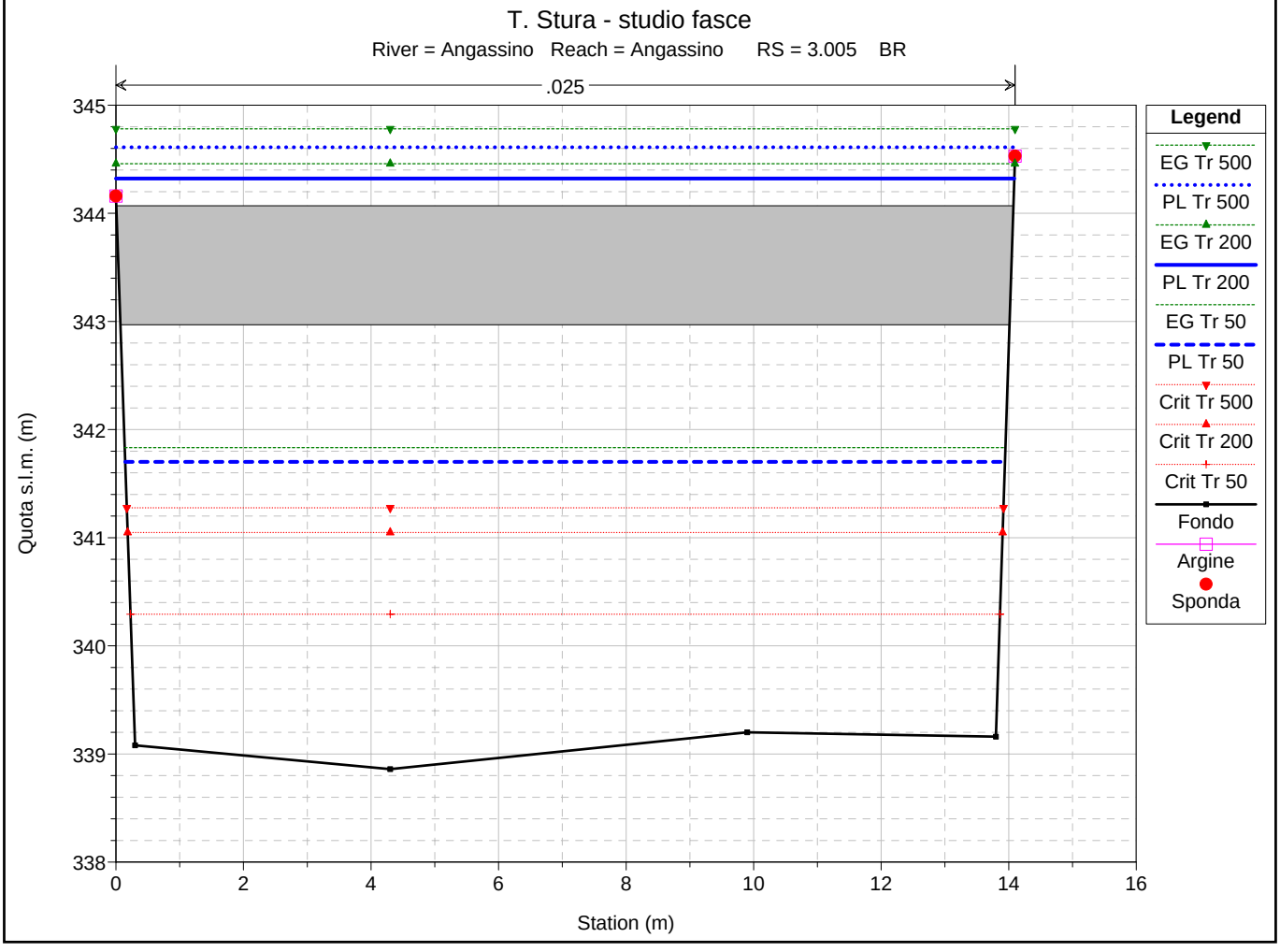

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.0122
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Sponda

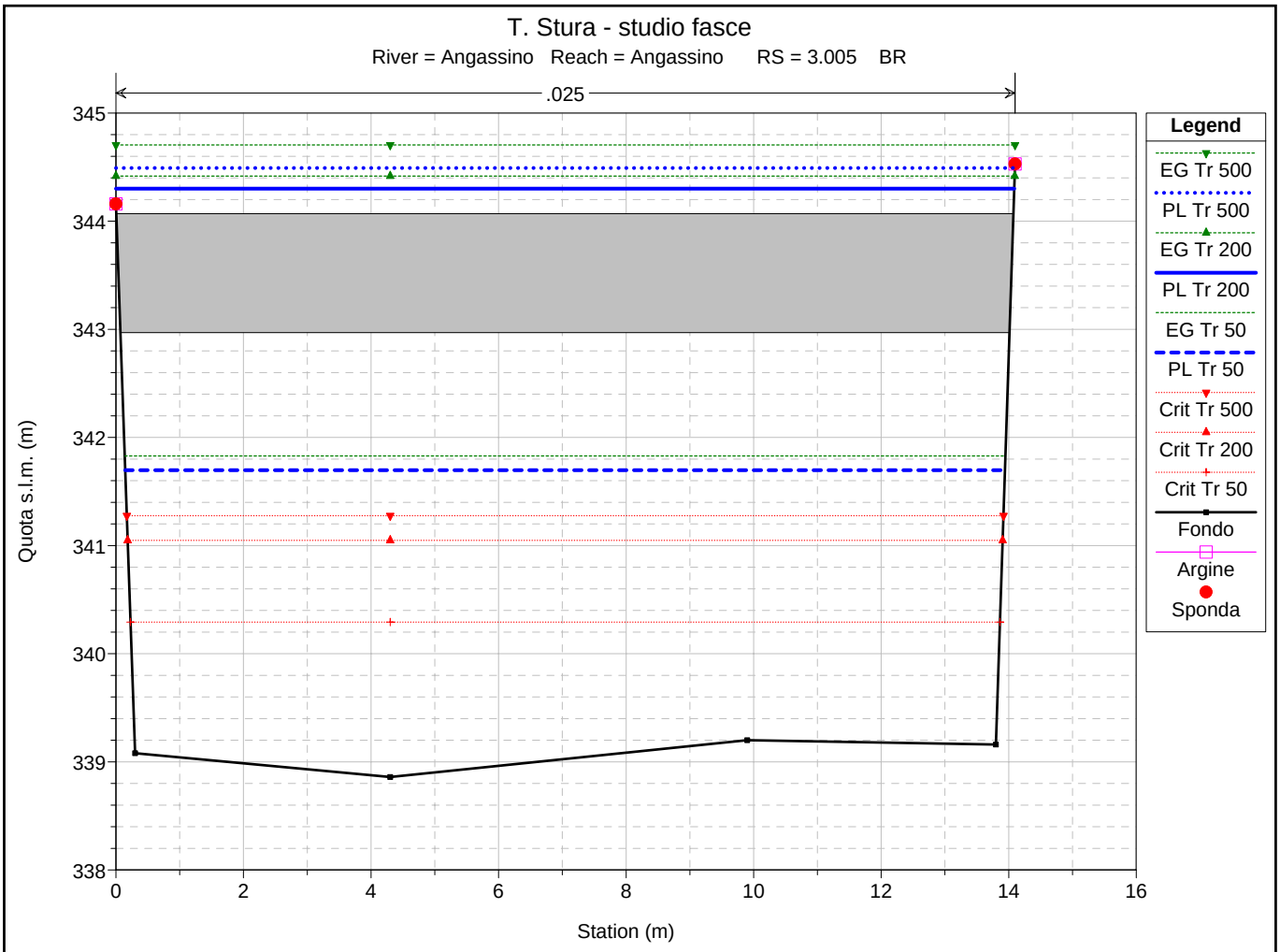

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.01215 BR
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Sponda

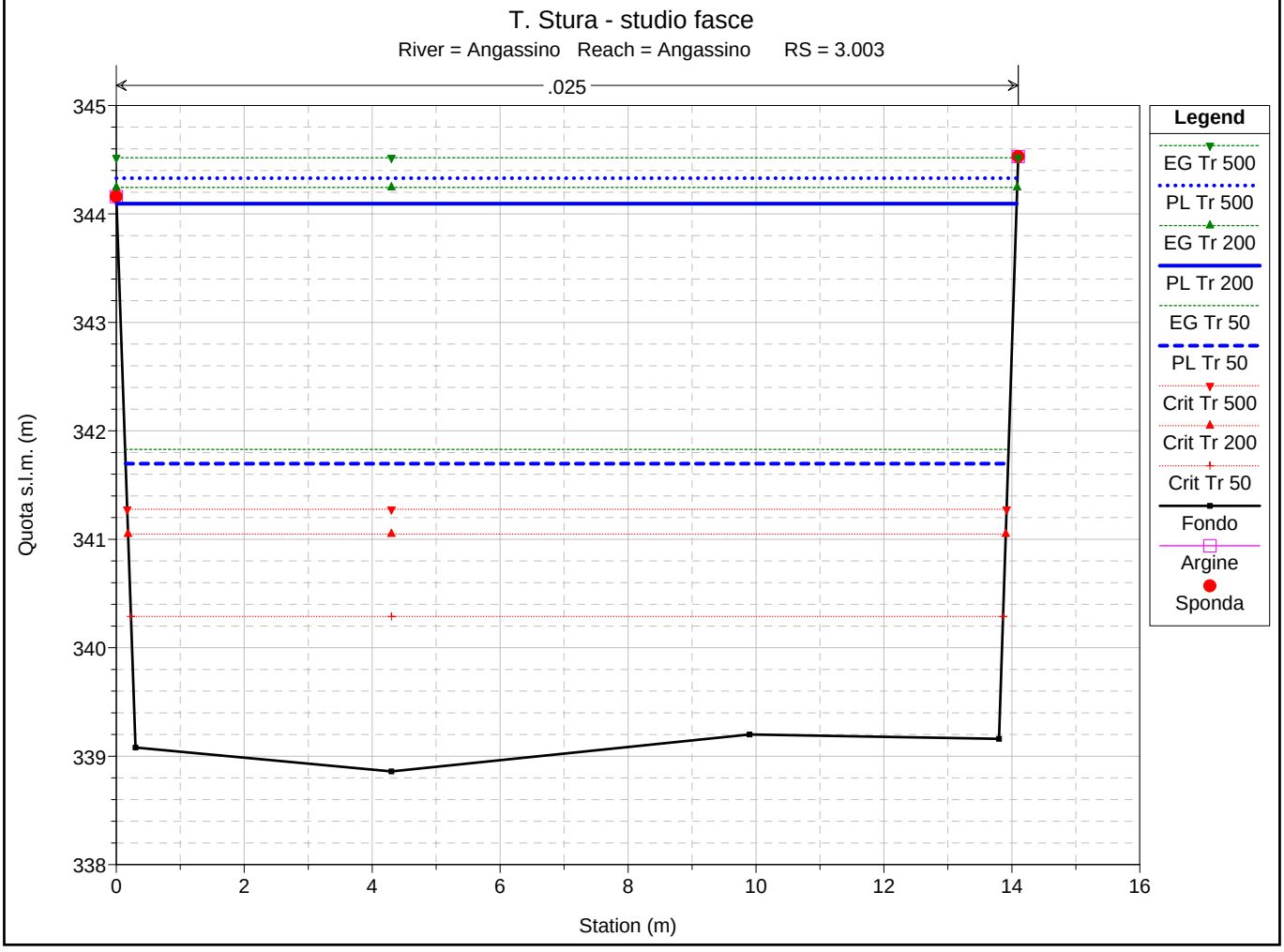

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.01215 BR
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Sponda


T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.012
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Sponda


T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.01
.025
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Argine
Sponda
Quota s.l.m. (m)
Station (m)

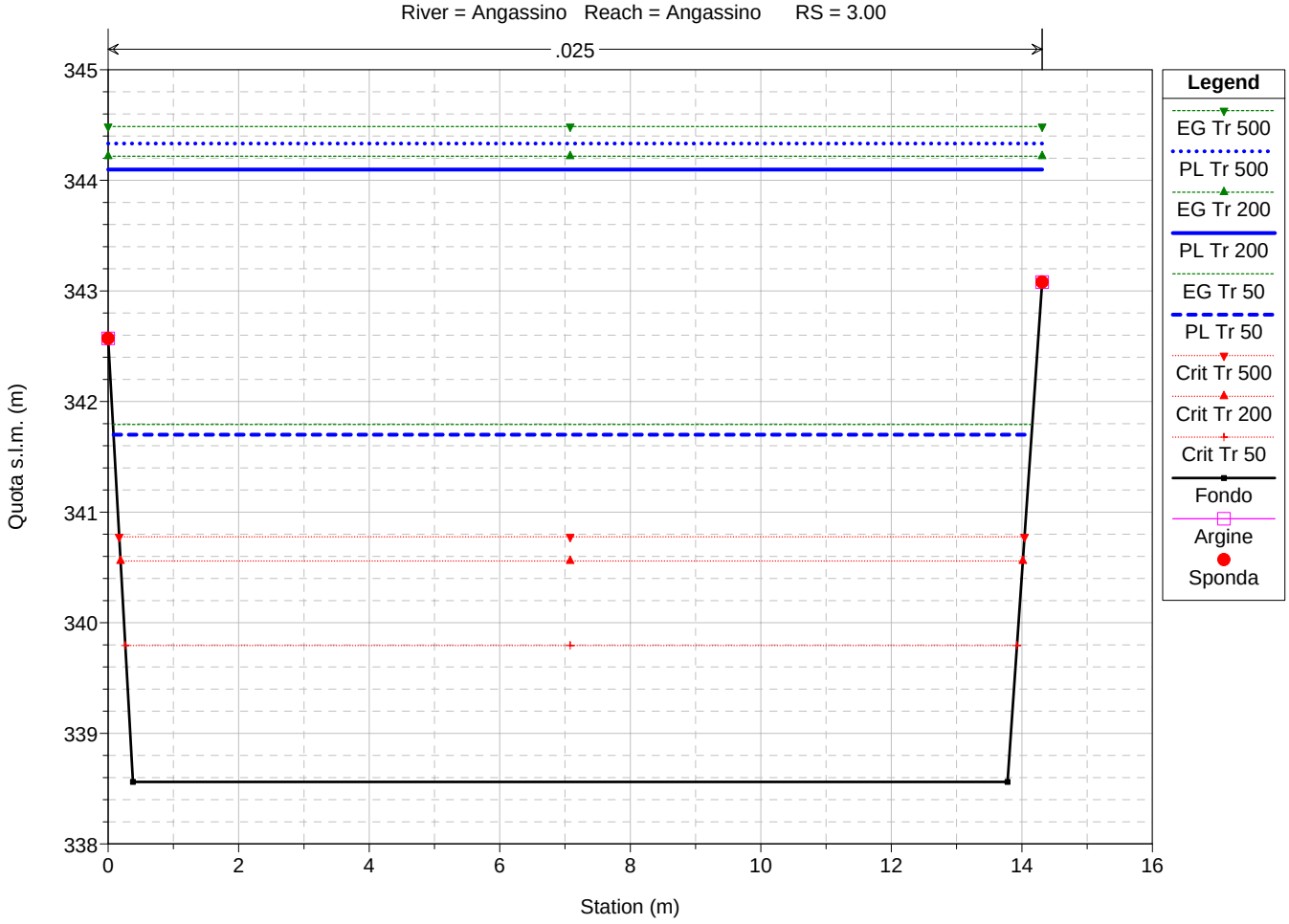

T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.005 BR
.025
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Argine
Sponda
Quota s.l.m. (m)
Station (m)


T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.005 BR
.025
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Argine
Sponda
Quota s.l.m. (m)
Station (m)


T. Stura - studio fasce
River = Angassino Reach = Angassino RS = 3.003
.025
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Argine
Sponda
Quota s.l.m. (m)
Station (m)

T. Stura - studio fasce

River = Angassino Reach = Angassino RS = 3.00



HEC-RAS Plan: Angass09 River: Angassino Reach: Angassino

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Angassino	3.30	Tr 50	58.00	379.01	379.91	381.51	1.60	381.51	1.60	380.17	380.87	0.018012	4.32	13.42	14.96	1.46
Angassino	3.30	Tr 200	119.00	379.01	380.43	381.51	1.08	381.51	1.08	380.88	382.04	0.018009	5.62	21.17	15.08	1.51
Angassino	3.30	Tr 500	140.00	379.01	380.58	381.51	0.93	381.51	0.93	381.09	382.39	0.018009	5.96	23.50	15.12	1.53
Angassino	3.2951	Tr 50	58.00	378.79	379.98	380.66	0.68	380.66	0.68	379.98	380.54	0.008067	3.34	17.36	15.30	1.00
Angassino	3.2951	Tr 200	119.00	378.79	380.56	380.66	0.10	380.66	0.10	380.68	381.60	0.009232	4.52	26.35	15.50	1.11
Angassino	3.2951	Tr 500	140.00	378.79	380.66	380.66	0.00	380.66	0.00	380.89	381.94	0.010710	5.02	27.90	15.53	1.19
Angassino	3.295	Tr 50	58.00	377.98	378.63	380.66	2.03	380.66	2.03	379.13	380.42	0.050229	5.92	9.79	15.08	2.35
Angassino	3.295	Tr 200	119.00	377.98	379.15	380.66	1.51	380.66	1.51	379.84	381.47	0.032270	6.74	17.64	15.19	2.00
Angassino	3.295	Tr 500	140.00	377.98	379.30	380.66	1.36	380.66	1.36	380.05	381.82	0.030483	7.03	19.92	15.23	1.96
Angassino	3.29	Tr 50	58.00	377.66	378.41	380.16	1.75	380.16	1.75	378.81	379.75	0.031397	5.12	11.33	15.11	1.89
Angassino	3.29	Tr 200	119.00	377.66	378.89	380.16	1.27	380.16	1.27	379.52	381.00	0.027856	6.44	18.49	15.22	1.86
Angassino	3.29	Tr 500	140.00	377.66	379.03	380.16	1.13	380.16	1.13	379.73	381.37	0.027205	6.78	20.66	15.26	1.86
Angassino	3.2851	Tr 50	58.00	377.55	378.54	379.55	1.01	379.55	1.01	378.70	379.29	0.012860	3.84	15.09	15.56	1.25
Angassino	3.2851	Tr 200	119.00	377.55	378.95	379.55	0.60	379.55	0.60	379.39	380.51	0.017731	5.54	21.49	15.68	1.51
Angassino	3.2851	Tr 500	140.00	377.55	379.08	379.55	0.47	379.55	0.47	379.59	380.88	0.018440	5.94	23.55	15.72	1.55
Angassino	3.285	Tr 50	58.00	376.64	377.26	379.55	2.29	379.55	2.29	377.78	379.17	0.057541	6.13	9.46	15.39	2.50
Angassino	3.285	Tr 200	119.00	376.64	377.71	379.55	1.84	379.55	1.84	378.47	380.39	0.041666	7.26	16.39	15.48	2.25
Angassino	3.285	Tr 500	140.00	376.64	377.84	379.55	1.71	379.55	1.71	378.68	380.76	0.039411	7.57	18.48	15.51	2.21
Angassino	3.28	Tr 50	58.00	376.52	377.32	379.01	1.69	379.01	1.69	377.64	378.46	0.024906	4.73	12.27	15.45	1.69
Angassino	3.28	Tr 200	119.00	376.52	377.75	379.01	1.26	379.01	1.26	378.35	379.75	0.026147	6.27	18.99	15.56	1.81
Angassino	3.28	Tr 500	140.00	376.52	377.88	379.01	1.13	379.01	1.13	378.56	380.14	0.026190	6.65	21.05	15.59	1.83
Angassino	3.2751	Tr 50	58.00	376.38	377.50	378.39	0.89	378.39	0.89	377.55	378.10	0.009109	3.43	16.92	15.84	1.06
Angassino	3.2751	Tr 200	119.00	376.38	377.82	378.39	0.57	378.39	0.57	378.23	379.31	0.016744	5.41	22.01	15.94	1.47
Angassino	3.2751	Tr 500	140.00	376.38	377.94	378.39	0.45	378.39	0.45	378.44	379.68	0.017837	5.85	23.93	15.97	1.53
Angassino	3.275	Tr 50	58.00	375.44	376.05	378.39	2.34	378.39	2.34	376.56	377.96	0.058738	6.14	9.45	15.63	2.52
Angassino	3.275	Tr 200	119.00	375.44	376.49	378.39	1.90	378.39	1.90	377.25	379.19	0.042632	7.28	16.35	15.72	2.28
Angassino	3.275	Tr 500	140.00	375.44	376.62	378.39	1.77	378.39	1.77	377.45	379.56	0.040421	7.60	18.43	15.75	2.24
Angassino	3.27	Tr 50	58.00	375.37	376.17	377.86	1.69	377.86	1.69	376.50	377.28	0.024382	4.67	12.42	15.70	1.68
Angassino	3.27	Tr 200	119.00	375.37	376.59	377.86	1.27	377.86	1.27	377.18	378.56	0.025942	6.22	19.13	15.80	1.80
Angassino	3.27	Tr 500	140.00	375.37	376.72	377.86	1.14	377.86	1.14	377.39	378.95	0.026125	6.61	21.17	15.84	1.83
Angassino	3.2651	Tr 50	58.00	375.27	376.38	377.29	0.91	377.29	0.91	376.39	376.94	0.008118	3.30	17.58	15.97	1.00
Angassino	3.2651	Tr 200	119.00	375.27	376.67	377.29	0.62	377.29	0.62	377.07	378.14	0.016483	5.37	22.16	16.06	1.46
Angassino	3.2651	Tr 500	140.00	375.27	376.79	377.29	0.50	377.29	0.50	377.29	378.51	0.017617	5.82	24.07	16.09	1.52
Angassino	3.265	Tr 50	58.00	374.27	374.87	377.29	2.42	377.29	2.42	375.39	376.80	0.059763	6.15	9.43	15.76	2.54
Angassino	3.265	Tr 200	119.00	374.27	375.31	377.29	1.98	377.29	1.98	376.08	378.01	0.043106	7.28	16.34	15.85	2.29
Angassino	3.265	Tr 500	140.00	374.27	375.44	377.29	1.85	377.29	1.85	376.28	378.38	0.040844	7.60	18.41	15.87	2.25

HEC-RAS Plan: Angass09 River: Angassino Reach: Angassino (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Angassino	3.26	Tr 50	58.00	374.08	374.76	376.56	1.80	376.96	2.20	375.20	376.26	0.039860	5.43	10.69	15.79	2.10
Angassino	3.26	Tr 200	119.00	374.08	375.18	376.56	1.38	376.96	1.78	375.88	377.59	0.036003	6.88	17.29	15.89	2.11
Angassino	3.26	Tr 500	140.00	374.08	375.30	376.56	1.26	376.96	1.66	376.09	377.98	0.035168	7.25	19.31	15.92	2.10
Angassino	3.2551	Tr 50	58.00	373.96	374.92	376.06	1.14	376.06	1.14	375.17	375.83	0.018224	4.23	13.70	16.03	1.46
Angassino	3.2551	Tr 200	119.00	373.96	375.30	376.06	0.76	376.06	0.76	375.85	377.14	0.023791	6.01	19.81	16.15	1.73
Angassino	3.2551	Tr 500	140.00	373.96	375.42	376.06	0.64	376.06	0.64	376.06	377.53	0.024566	6.44	21.74	16.18	1.77
Angassino	3.255	Tr 50	58.00	372.96	373.52	376.06	2.54	376.06	2.54	374.08	375.70	0.073941	6.55	8.86	15.88	2.80
Angassino	3.255	Tr 200	119.00	372.96	373.92	376.06	2.14	376.06	2.14	374.76	377.01	0.053770	7.79	15.28	15.96	2.54
Angassino	3.255	Tr 500	140.00	372.96	374.05	376.06	2.01	376.06	2.01	374.95	377.40	0.050681	8.12	17.25	15.98	2.49
Angassino	3.25	Tr 50	58.00	372.90	373.59	375.36	1.77	375.36	1.77	374.01	375.03	0.038031	5.33	10.88	15.94	2.06
Angassino	3.25	Tr 200	119.00	372.90	373.98	375.36	1.38	375.36	1.38	374.69	376.44	0.037398	6.95	17.13	16.03	2.14
Angassino	3.25	Tr 500	140.00	372.90	374.10	375.36	1.26	375.36	1.26	374.89	376.85	0.036965	7.35	19.06	16.06	2.15
Angassino	3.2451	Tr 50	58.00	372.84	373.98	374.94	0.96	374.94	0.96	374.05	374.62	0.009970	3.57	16.26	15.25	1.10
Angassino	3.2451	Tr 200	119.00	372.84	374.27	374.94	0.67	374.94	0.67	374.75	375.94	0.019391	5.73	20.78	15.34	1.57
Angassino	3.2451	Tr 500	140.00	372.84	374.39	374.94	0.55	374.94	0.55	374.97	376.34	0.020604	6.19	22.61	15.37	1.63
Angassino	3.245	Tr 50	58.00	371.99	372.63	374.94	2.31	374.94	2.31	373.14	374.50	0.054101	6.06	9.57	15.06	2.43
Angassino	3.245	Tr 200	119.00	371.99	373.06	374.94	1.88	374.94	1.88	373.85	375.83	0.042657	7.37	16.15	15.15	2.28
Angassino	3.245	Tr 500	140.00	371.99	373.20	374.94	1.74	374.94	1.74	374.06	376.23	0.040949	7.72	18.14	15.18	2.25
Angassino	3.24	Tr 50	58.00	371.83	372.61	374.36	1.75	374.36	1.75	372.98	373.86	0.028140	4.95	11.72	15.12	1.79
Angassino	3.24	Tr 200	119.00	371.83	373.03	374.36	1.33	374.36	1.33	373.69	375.24	0.029927	6.58	18.07	15.21	1.93
Angassino	3.24	Tr 500	140.00	371.83	373.16	374.36	1.20	374.36	1.20	373.90	375.65	0.030103	7.00	20.00	15.24	1.95
Angassino	3.2351	Tr 50	58.00	371.76	372.74	373.69	0.95	373.69	0.95	372.89	373.48	0.012620	3.81	15.23	15.71	1.23
Angassino	3.2351	Tr 200	119.00	371.76	373.08	373.69	0.61	373.69	0.61	373.57	374.78	0.020334	5.77	20.63	15.82	1.61
Angassino	3.2351	Tr 500	140.00	371.76	373.20	373.69	0.49	373.69	0.49	373.78	375.18	0.021624	6.24	22.45	15.86	1.67
Angassino	3.235	Tr 50	58.00	370.78	371.38	373.69	2.31	373.69	2.31	371.91	373.35	0.060860	6.22	9.33	15.53	2.56
Angassino	3.235	Tr 200	119.00	370.78	371.81	373.69	1.88	373.69	1.88	372.60	374.66	0.046242	7.48	15.91	15.62	2.37
Angassino	3.235	Tr 500	140.00	370.78	371.93	373.69	1.76	373.69	1.76	372.81	375.06	0.044297	7.84	17.86	15.65	2.34
Angassino	3.23	Tr 50	58.00	370.63	371.34	373.13	1.79	373.13	1.79	371.76	372.75	0.035564	5.26	11.02	15.58	2.00
Angassino	3.23	Tr 200	119.00	370.63	371.75	373.13	1.38	373.13	1.38	372.45	374.14	0.035107	6.86	17.35	15.68	2.08
Angassino	3.23	Tr 500	140.00	370.63	371.87	373.13	1.26	373.13	1.26	372.66	374.56	0.034887	7.27	19.27	15.71	2.09
Angassino	3.2251	Tr 50	58.00	370.52	371.38	372.46	1.08	372.46	1.08	371.65	372.33	0.019029	4.32	13.41	15.76	1.50
Angassino	3.2251	Tr 200	119.00	370.52	371.76	372.46	0.70	372.46	0.70	372.33	373.68	0.024845	6.14	19.39	15.87	1.77
Angassino	3.2251	Tr 500	140.00	370.52	371.87	372.46	0.59	372.46	0.59	372.53	374.08	0.025779	6.59	21.25	15.91	1.82
Angassino	3.225	Tr 50	58.00	369.54	370.12	372.46	2.34	372.46	2.34	370.67	372.21	0.067503	6.41	9.05	15.61	2.69
Angassino	3.225	Tr 200	119.00	369.54	370.53	372.46	1.93	372.46	1.93	371.36	373.56	0.051143	7.71	15.44	15.69	2.48
Angassino	3.225	Tr 500	140.00	369.54	370.65	372.46	1.81	372.46	1.81	371.55	373.97	0.048870	8.07	17.35	15.72	2.45

HEC-RAS Plan: Angass09 River: Angassino Reach: Angassino (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Angassino	3.22	Tr 50	58.00	369.45	370.16	371.96	1.80	371.96	1.80	370.58	371.56	0.035375	5.25	11.06	15.66	1.99
Angassino	3.22	Tr 200	119.00	369.45	370.55	371.96	1.41	371.96	1.41	371.27	372.98	0.036027	6.90	17.24	15.75	2.11
Angassino	3.22	Tr 500	140.00	369.45	370.67	371.96	1.29	371.96	1.29	371.47	373.41	0.036027	7.33	19.10	15.78	2.13
Angassino	3.2151	Tr 50	58.00	369.21	370.01	371.31	1.30	371.31	1.30	370.37	371.20	0.025673	4.81	12.05	15.09	1.72
Angassino	3.2151	Tr 200	119.00	369.21	370.43	371.31	0.88	371.31	0.88	371.07	372.58	0.028516	6.49	18.33	15.21	1.89
Angassino	3.2151	Tr 500	140.00	369.21	370.55	371.31	0.76	371.31	0.76	371.31	373.00	0.028973	6.92	20.22	15.24	1.92
Angassino	3.215	Tr 50	58.00	368.36	368.96	371.31	2.35	371.31	2.35	369.52	371.10	0.066591	6.47	8.96	14.98	2.67
Angassino	3.215	Tr 200	119.00	368.36	369.38	371.31	1.93	371.31	1.93	370.23	372.48	0.050798	7.80	15.26	15.07	2.47
Angassino	3.215	Tr 500	140.00	368.36	369.51	371.31	1.80	371.31	1.80	370.44	372.90	0.048500	8.16	17.16	15.09	2.44
Angassino	3.21	Tr 50	58.00	368.10	368.77	370.76	1.99	370.76	1.99	369.25	370.48	0.046663	5.80	10.00	15.01	2.27
Angassino	3.21	Tr 200	119.00	368.10	369.17	370.76	1.59	370.76	1.59	369.96	371.98	0.043447	7.42	16.04	15.10	2.30
Angassino	3.21	Tr 500	140.00	368.10	369.29	370.76	1.47	370.76	1.47	370.17	372.42	0.042629	7.83	17.88	15.13	2.30
Angassino	3.2051	Tr 50	58.00	368.14	369.07	370.16	1.09	370.16	1.09	369.32	370.00	0.016844	4.26	13.62	14.72	1.41
Angassino	3.2051	Tr 200	119.00	368.14	369.44	370.16	0.72	370.16	0.72	370.04	371.43	0.024553	6.24	19.06	14.83	1.76
Angassino	3.2051	Tr 500	140.00	368.14	369.56	370.16	0.60	370.16	0.60	370.25	371.86	0.025691	6.72	20.84	14.86	1.81
Angassino	3.205	Tr 50	58.00	367.21	367.84	370.16	2.32	370.16	2.32	368.38	369.88	0.059961	6.33	9.16	14.57	2.55
Angassino	3.205	Tr 200	119.00	367.21	368.27	370.16	1.89	370.16	1.89	369.11	371.32	0.048235	7.74	15.37	14.66	2.41
Angassino	3.205	Tr 500	140.00	367.21	368.39	370.16	1.77	370.16	1.77	369.32	371.75	0.046467	8.12	17.25	14.68	2.39
Angassino	3.20	Tr 50	58.00	367.13	367.88	369.61	1.73	369.61	1.73	368.31	369.31	0.033734	5.29	10.96	14.62	1.95
Angassino	3.20	Tr 200	119.00	367.13	368.30	369.61	1.31	369.61	1.31	369.03	370.79	0.035145	7.00	17.00	14.72	2.08
Angassino	3.20	Tr 500	140.00	367.13	368.42	369.61	1.19	369.61	1.19	369.25	371.24	0.035307	7.44	18.82	14.75	2.10
Angassino	3.1951	Tr 50	58.00	367.01	367.92	368.96	1.04	368.96	1.04	368.21	368.93	0.019961	4.47	12.98	14.94	1.53
Angassino	3.1951	Tr 200	119.00	367.01	368.30	368.96	0.66	368.96	0.66	368.92	370.36	0.026401	6.36	18.71	15.06	1.82
Angassino	3.1951	Tr 500	140.00	367.01	368.42	368.96	0.55	368.96	0.55	369.13	370.80	0.027584	6.84	20.47	15.10	1.88
Angassino	3.195	Tr 50	58.00	366.00	366.60	368.96	2.36	368.96	2.36	367.17	368.81	0.069549	6.59	8.80	14.79	2.73
Angassino	3.195	Tr 200	119.00	366.00	367.01	368.96	1.95	368.96	1.95	367.88	370.24	0.053532	7.96	14.95	14.88	2.53
Angassino	3.195	Tr 500	140.00	366.00	367.14	368.96	1.82	368.96	1.82	368.10	370.68	0.051375	8.34	16.79	14.90	2.51
Angassino	3.19	Tr 50	58.00	366.03	366.77	368.51	1.74	368.51	1.74	367.20	368.21	0.034706	5.31	10.92	14.85	1.98
Angassino	3.19	Tr 200	119.00	366.03	367.17	368.51	1.34	368.51	1.34	367.91	369.69	0.036018	7.02	16.95	14.95	2.10
Angassino	3.19	Tr 500	140.00	366.03	367.30	368.51	1.21	368.51	1.21	368.12	370.13	0.036240	7.46	18.76	14.98	2.13
Angassino	3.1851	Tr 50	58.00	365.89	367.32	368.46	1.14	368.46	1.14	367.32	367.88	0.008088	3.33	17.41	15.40	1.00
Angassino	3.1851	Tr 200	119.00	365.89	367.53	368.46	0.93	368.46	0.93	368.02	369.21	0.019774	5.75	20.70	15.45	1.59
Angassino	3.1851	Tr 500	140.00	365.89	367.63	368.46	0.83	368.46	0.83	368.23	369.65	0.021876	6.30	22.23	15.48	1.68
Angassino	3.185	Tr 50	58.00	365.10	365.71	368.46	2.75	368.46	2.75	366.25	367.73	0.062319	6.31	9.20	15.21	2.59
Angassino	3.185	Tr 200	119.00	365.10	366.13	368.46	2.33	368.46	2.33	366.95	369.08	0.047936	7.62	15.62	15.28	2.40
Angassino	3.185	Tr 500	140.00	365.10	366.25	368.46	2.21	368.46	2.21	367.16	369.52	0.046579	8.01	17.47	15.31	2.39

HEC-RAS Plan: Angass09 River: Angassino Reach: Angassino (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Angassino	3.18	Tr 50	58.00	365.03	365.75	367.51	1.76	367.51	1.76	366.17	367.18	0.035471	5.30	10.95	15.27	2.00
Angassino	3.18	Tr 200	119.00	365.03	366.16	367.51	1.35	367.51	1.35	366.87	368.59	0.035256	6.91	17.22	15.37	2.08
Angassino	3.18	Tr 500	140.00	365.03	366.28	367.51	1.23	367.51	1.23	367.08	369.04	0.035702	7.36	19.01	15.40	2.12
Angassino	3.1751	Tr 50	58.00	364.88	365.74	366.86	1.12	366.86	1.12	366.06	366.82	0.021685	4.61	12.59	14.75	1.59
Angassino	3.1751	Tr 200	119.00	364.88	366.16	366.86	0.70	366.86	0.70	366.76	368.20	0.025531	6.32	18.84	14.88	1.79
Angassino	3.1751	Tr 500	140.00	364.88	366.28	366.86	0.58	366.86	0.58	366.98	368.63	0.026582	6.78	20.64	14.92	1.84
Angassino	3.175	Tr 50	58.00	363.97	364.59	366.86	2.27	366.86	2.27	365.14	366.71	0.064294	6.46	8.98	14.62	2.63
Angassino	3.175	Tr 200	119.00	363.97	365.02	366.86	1.84	366.86	1.84	365.86	368.09	0.048814	7.76	15.33	14.71	2.43
Angassino	3.175	Tr 500	140.00	363.97	365.15	366.86	1.71	366.86	1.71	366.08	368.52	0.047004	8.14	17.20	14.73	2.40
Angassino	3.17	Tr 50	58.00	363.82	364.53	367.01	2.48	367.01	2.48	365.00	366.14	0.041164	5.63	10.31	14.62	2.14
Angassino	3.17	Tr 200	119.00	363.82	364.95	367.01	2.06	367.01	2.06	365.72	367.61	0.038967	7.23	16.47	14.70	2.18
Angassino	3.17	Tr 500	140.00	363.82	365.07	367.01	1.94	367.01	1.94	365.93	368.05	0.038655	7.65	18.31	14.73	2.19
Angassino	3.1651	Tr 50	58.00	363.73	364.52	365.86	1.34	365.86	1.34	364.87	365.70	0.026178	4.81	12.06	15.43	1.74
Angassino	3.1651	Tr 200	119.00	363.73	364.90	365.86	0.96	365.86	0.96	365.57	367.16	0.031459	6.66	17.88	15.54	1.98
Angassino	3.1651	Tr 500	140.00	363.73	365.01	365.86	0.85	365.86	0.85	365.77	367.60	0.032385	7.13	19.64	15.57	2.03
Angassino	3.165	Tr 50	58.00	362.76	363.33	366.16	2.83	366.16	2.83	363.90	365.59	0.074827	6.66	8.71	15.31	2.82
Angassino	3.165	Tr 200	119.00	362.76	363.72	366.16	2.44	366.16	2.44	364.59	367.04	0.058124	8.07	14.74	15.38	2.63
Angassino	3.165	Tr 500	140.00	362.76	363.84	366.16	2.32	366.16	2.32	364.80	367.49	0.055761	8.46	16.54	15.40	2.61
Angassino	3.16	Tr 50	58.00	362.84	363.61	365.36	1.75	365.36	1.75	363.98	364.85	0.028749	4.95	11.72	15.39	1.81
Angassino	3.16	Tr 200	119.00	362.84	363.98	365.36	1.38	365.36	1.38	364.68	366.32	0.033383	6.78	17.56	15.48	2.03
Angassino	3.16	Tr 500	140.00	362.84	364.10	365.36	1.26	365.36	1.26	364.89	366.77	0.034183	7.25	19.32	15.51	2.07
Angassino	3.1551	Tr 50	58.00	362.70	363.61	364.66	1.05	364.80	1.19	363.85	364.51	0.017086	4.22	13.74	15.31	1.42
Angassino	3.1551	Tr 200	119.00	362.70	363.97	364.66	0.69	364.80	0.83	364.55	365.89	0.024091	6.13	19.41	15.42	1.74
Angassino	3.1551	Tr 500	140.00	362.70	364.09	364.66	0.57	364.80	0.71	364.76	366.32	0.025506	6.62	21.14	15.45	1.81
Angassino	3.155	Tr 50	58.00	361.62	362.50	364.66	2.16	364.80	2.30	363.02	364.41	0.056327	6.12	9.48	15.17	2.47
Angassino	3.155	Tr 200	119.00	361.62	362.92	364.66	1.74	364.80	1.88	363.73	365.79	0.045610	7.51	15.85	15.26	2.35
Angassino	3.155	Tr 500	140.00	361.62	363.04	364.66	1.62	364.80	1.76	363.93	366.22	0.044401	7.90	17.72	15.28	2.34
Angassino	3.15	Tr 50	58.00	361.60	362.28	364.11	1.83	364.11	1.83	362.75	363.90	0.043120	5.64	10.29	15.20	2.19
Angassino	3.15	Tr 200	119.00	361.60	362.68	364.11	1.43	364.11	1.43	363.45	365.36	0.040817	7.25	16.42	15.30	2.23
Angassino	3.15	Tr 500	140.00	361.60	362.80	364.11	1.31	364.11	1.31	363.66	365.80	0.040518	7.68	18.24	15.33	2.25
Angassino	3.1451	Tr 50	58.00	361.51	362.89	364.51	1.62	364.51	1.62	362.89	363.47	0.008137	3.38	17.16	14.75	1.00
Angassino	3.1451	Tr 200	119.00	361.51	363.14	364.51	1.37	364.51	1.37	363.61	364.79	0.018369	5.68	20.94	14.81	1.53
Angassino	3.1451	Tr 500	140.00	361.51	363.25	364.51	1.26	364.51	1.26	363.83	365.22	0.020278	6.22	22.52	14.83	1.61
Angassino	3.145	Tr 50	58.00	360.59	361.21	364.51	3.30	364.51	3.30	361.77	363.32	0.063314	6.43	9.02	14.59	2.61
Angassino	3.145	Tr 200	119.00	360.59	361.65	364.51	2.86	364.51	2.86	362.49	364.65	0.047068	7.67	15.51	14.66	2.38
Angassino	3.145	Tr 500	140.00	360.59	361.78	364.51	2.73	364.51	2.73	362.70	365.08	0.045430	8.05	17.39	14.68	2.36

HEC-RAS Plan: Angass09 River: Angassino Reach: Angassino (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Angassino	3.14	Tr 50	58.00	360.53	361.56	363.53	1.97	363.53	1.97	361.71	362.32	0.012170	3.84	15.10	14.71	1.21
Angassino	3.14	Tr 200	119.00	360.53	362.00	363.53	1.53	363.53	1.53	362.43	363.55	0.016727	5.52	21.57	14.79	1.46
Angassino	3.14	Tr 500	140.00	360.53	362.13	363.53	1.40	363.53	1.40	362.64	363.95	0.018030	5.99	23.39	14.82	1.52
Angassino	3.1351	Tr 50	58.00	360.04	361.15	363.24	2.09	363.69	2.54	361.33	361.99	0.012972	4.04	14.36	13.33	1.24
Angassino	3.1351	Tr 200	119.00	360.04	361.90	363.24	1.34	363.69	1.79	362.09	363.12	0.010589	4.88	24.38	13.47	1.16
Angassino	3.1351	Tr 500	140.00	360.04	362.10	363.24	1.14	363.69	1.59	362.32	363.46	0.010627	5.17	27.10	13.50	1.16
Angassino	3.135	Tr 50	58.00	359.07	360.03	363.24	3.21	363.69	3.66	360.55	361.88	0.046298	6.03	9.62	13.24	2.26
Angassino	3.135	Tr 200	119.00	359.07	360.61	363.24	2.63	363.69	3.08	361.32	363.00	0.029994	6.84	17.39	13.33	1.91
Angassino	3.135	Tr 500	140.00	359.07	360.79	363.24	2.45	363.69	2.90	361.55	363.34	0.027810	7.07	19.79	13.35	1.86
Angassino	3.13	Tr 50	58.00	358.98	359.76	363.24	3.48	363.69	3.93	360.24	361.38	0.037532	5.65	10.27	13.24	2.05
Angassino	3.13	Tr 200	119.00	358.98	360.29	363.24	2.95	363.69	3.40	361.01	362.69	0.030168	6.86	17.35	13.32	1.92
Angassino	3.13	Tr 500	140.00	358.98	360.47	363.24	2.77	363.69	3.22	361.24	363.05	0.028341	7.12	19.66	13.34	1.87
Angassino	3.1251	Tr 50	58.00	358.71	359.71	363.24	3.53	363.69	3.98	360.07	360.95	0.021698	4.93	11.77	11.83	1.58
Angassino	3.1251	Tr 200	119.00	358.71	360.35	363.24	2.89	363.69	3.34	360.90	362.27	0.019477	6.14	19.39	11.91	1.53
Angassino	3.1251	Tr 500	140.00	358.71	360.57	363.24	2.67	363.69	3.12	361.15	362.63	0.018397	6.36	22.00	11.94	1.50
Angassino	3.125	Tr 50	58.00	357.54	358.24	363.24	5.00	363.69	5.46	358.90	360.81	0.069243	7.11	8.16	11.77	2.73
Angassino	3.125	Tr 200	119.00	357.54	358.79	363.24	4.45	363.69	4.90	359.73	362.13	0.045554	8.09	14.71	11.83	2.32
Angassino	3.125	Tr 500	140.00	357.54	358.97	363.24	4.27	363.69	4.72	359.98	362.49	0.041414	8.31	16.85	11.85	2.22
Angassino	3.123	Tr 50	58.00	356.99	357.69	363.24	5.55	363.69	6.00	358.35	360.25	0.068934	7.10	8.17	11.76	2.72
Angassino	3.123	Tr 200	119.00	356.99	358.21	363.24	5.03	363.69	5.48	359.18	361.73	0.049518	8.31	14.32	11.81	2.41
Angassino	3.123	Tr 500	140.00	356.99	358.38	363.24	4.86	363.69	5.31	359.43	362.12	0.045543	8.57	16.34	11.83	2.33
Angassino	3.122		Bridge													
Angassino	3.121	Tr 50	58.00	356.99	357.80	363.24	5.44	363.69	5.89	358.35	359.68	0.041954	6.07	9.55	11.78	2.15
Angassino	3.121	Tr 200	119.00	356.99	358.32	363.24	4.92	363.69	5.37	359.18	361.26	0.037397	7.59	15.68	11.82	2.10
Angassino	3.121	Tr 500	140.00	356.99	358.50	363.24	4.74	363.69	5.19	359.43	361.68	0.035521	7.90	17.72	11.84	2.06
Angassino	3.12	Tr 50	58.00	356.99	358.06	360.16	2.10	360.16	2.10	358.34	359.13	0.017299	4.58	12.65	11.90	1.42
Angassino	3.12	Tr 200	119.00	356.99	358.54	360.16	1.62	360.16	1.62	359.17	360.67	0.022810	6.46	18.41	11.99	1.67
Angassino	3.12	Tr 500	140.00	356.99	358.72	360.16	1.44	360.16	1.44	359.42	361.10	0.022836	6.84	20.48	12.03	1.67
Angassino	3.11	Tr 50	58.00	356.33	357.47	360.48	3.01	360.48	3.01	357.77	358.61	0.017702	4.74	12.24	10.86	1.43
Angassino	3.11	Tr 200	119.00	356.33	358.15	360.48	2.33	360.48	2.33	358.65	360.00	0.017329	6.03	19.74	10.96	1.43
Angassino	3.11	Tr 500	140.00	356.33	358.36	360.48	2.12	360.48	2.12	358.91	360.42	0.017213	6.35	22.06	10.99	1.43
Angassino	3.1051	Tr 50	58.00	356.31	357.70	359.71	2.01	359.71	2.01	357.70	358.38	0.008317	3.65	15.87	11.56	1.00
Angassino	3.1051	Tr 200	119.00	356.31	358.54	359.71	1.17	359.71	1.17	358.54	359.63	0.008187	4.63	25.68	11.71	1.00
Angassino	3.1051	Tr 500	140.00	356.31	358.78	359.71	0.93	359.71	0.93	358.78	360.01	0.008326	4.91	28.51	11.76	1.01
Angassino	3.105	Tr 50	58.00	353.99	354.61	359.71	5.10	359.71	5.10	355.38	358.09	0.108546	8.27	7.01	11.38	3.37
Angassino	3.105	Tr 200	119.00	353.99	355.14	359.71	4.57	359.71	4.57	356.23	359.33	0.062877	9.06	13.13	11.44	2.70

HEC-RAS Plan: Angass09 River: Angassino Reach: Angassino (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Angassino	3.105	Tr 500	140.00	353.99	355.32	359.71	4.39	359.71	4.39	356.48	359.69	0.056469	9.27	15.10	11.46	2.58
Angassino	3.103	Tr 50	58.00	354.34	356.01	357.94	1.93	357.54	1.53	355.73	356.48	0.004672	3.03	19.17	11.62	0.75
Angassino	3.103	Tr 200	119.00	354.34	356.92	357.94	1.02	357.54	0.62	356.57	357.73	0.005280	3.99	29.81	11.78	0.80
Angassino	3.103	Tr 500	140.00	354.34	357.22	357.94	0.72	357.54	0.32	356.83	358.12	0.005274	4.20	33.35	11.83	0.80
Angassino	3.1025		Bridge													
Angassino	3.10	Tr 50	58.00	354.34	355.99	357.94	1.95	357.54	1.55	355.73	356.47	0.004896	3.07	18.88	11.61	0.77
Angassino	3.10	Tr 200	119.00	354.34	356.88	357.94	1.06	357.54	0.65	356.57	357.72	0.005509	4.05	29.38	11.77	0.82
Angassino	3.10	Tr 500	140.00	354.34	357.19	357.94	0.75	357.54	0.35	356.83	358.11	0.005475	4.25	32.92	11.82	0.81
Angassino	3.099	Tr 50	58.00	354.34	355.73	357.94	2.21	356.54	0.81	355.73	356.40	0.008254	3.65	15.91	11.62	0.99
Angassino	3.099	Tr 200	119.00	354.34	356.70	357.94	1.24	356.54	-0.16	356.57	357.67	0.006780	4.35	27.37	11.82	0.91
Angassino	3.099	Tr 500	140.00	354.34	357.04	357.94	0.90	356.54	-0.50	356.81	358.06	0.006306	4.47	31.34	11.85	0.88
Angassino	3.0951	Tr 50	58.00	353.95	355.39	356.89	1.50	355.95	0.56	355.44	356.14	0.009130	3.83	15.16	11.03	1.04
Angassino	3.0951	Tr 200	119.00	353.95	356.31	356.89	0.58	355.95	-0.36	356.31	357.43	0.008205	4.69	25.36	11.21	1.00
Angassino	3.0951	Tr 500	140.00	353.95	356.56	356.89	0.33	355.95	-0.61	356.56	357.82	0.008293	4.96	28.24	11.24	1.00
Angassino	3.095	Tr 50	58.00	352.82	353.67	356.89	3.22	355.95	2.28	354.31	355.98	0.053106	6.74	8.61	10.81	2.41
Angassino	3.095	Tr 200	119.00	352.82	354.32	356.89	2.57	355.95	1.63	355.19	357.25	0.034570	7.58	15.70	10.92	2.02
Angassino	3.095	Tr 500	140.00	352.82	354.52	356.89	2.37	355.95	1.43	355.45	357.63	0.032009	7.81	17.92	10.95	1.95
Angassino	3.09	Tr 50	58.00	352.83	353.88	356.89	3.01	355.95	2.07	354.27	355.22	0.022325	5.11	11.35	10.85	1.60
Angassino	3.09	Tr 200	119.00	352.83	354.56	356.89	2.33	355.95	1.39	355.15	356.62	0.020183	6.35	18.75	10.96	1.55
Angassino	3.09	Tr 500	140.00	352.83	354.77	356.89	2.12	355.95	1.18	355.42	357.03	0.019747	6.65	21.05	11.00	1.53
Angassino	3.0851	Tr 50	58.00	352.69	353.64	354.16	0.52	354.16	0.52	354.00	354.84	0.022044	4.85	11.95	12.93	1.61
Angassino	3.0851	Tr 200	119.00	352.69	354.14	354.16	0.02	354.16	0.02	354.77	356.27	0.024248	6.48	18.37	13.14	1.75
Angassino	3.0851	Tr 500	140.00	352.69	354.29	354.16	-0.13	354.16	-0.13	355.00	356.68	0.024164	6.85	20.43	13.15	1.75
Angassino	3.085	Tr 50	58.00	351.22	351.92	354.16	2.24	354.16	2.24	352.58	354.68	0.082224	7.37	7.87	12.67	2.98
Angassino	3.085	Tr 200	119.00	351.22	352.39	354.16	1.77	354.16	1.77	353.38	356.11	0.056586	8.54	13.93	12.77	2.61
Angassino	3.085	Tr 500	140.00	351.22	352.54	354.16	1.62	354.16	1.62	353.62	356.52	0.052407	8.84	15.84	12.80	2.54
Angassino	3.08	Tr 50	58.00	350.89	351.60	353.74	2.14	353.36	1.77	352.18	353.76	0.056395	6.51	8.90	12.71	2.48
Angassino	3.08	Tr 200	119.00	350.89	352.04	353.74	1.70	353.36	1.32	352.97	355.43	0.049642	8.15	14.60	12.81	2.44
Angassino	3.08	Tr 500	140.00	350.89	352.18	353.74	1.56	353.36	1.18	353.21	355.89	0.047690	8.53	16.41	12.84	2.41
Angassino	3.0751	Tr 50	58.00	350.75	351.57	353.95	2.38	352.76	1.19	352.01	353.06	0.032866	5.39	10.76	13.49	1.93
Angassino	3.0751	Tr 200	119.00	350.75	351.98	353.95	1.97	352.76	0.78	352.78	354.73	0.038048	7.35	16.18	13.59	2.15
Angassino	3.0751	Tr 500	140.00	350.75	352.10	353.95	1.85	352.76	0.66	353.00	355.21	0.038250	7.81	17.92	13.62	2.17
Angassino	3.075	Tr 50	58.00	349.55	350.51	353.95	3.44	352.76	2.25	351.12	352.95	0.073376	6.93	8.37	13.40	2.80
Angassino	3.075	Tr 200	119.00	349.55	350.92	353.95	3.03	352.76	1.84	351.88	354.63	0.060591	8.53	13.94	13.48	2.68
Angassino	3.075	Tr 500	140.00	349.55	351.05	353.95	2.90	352.76	1.71	352.12	355.11	0.058004	8.93	15.68	13.50	2.64

HEC-RAS Plan: Angass09 River: Angassino Reach: Angassino (Continued)

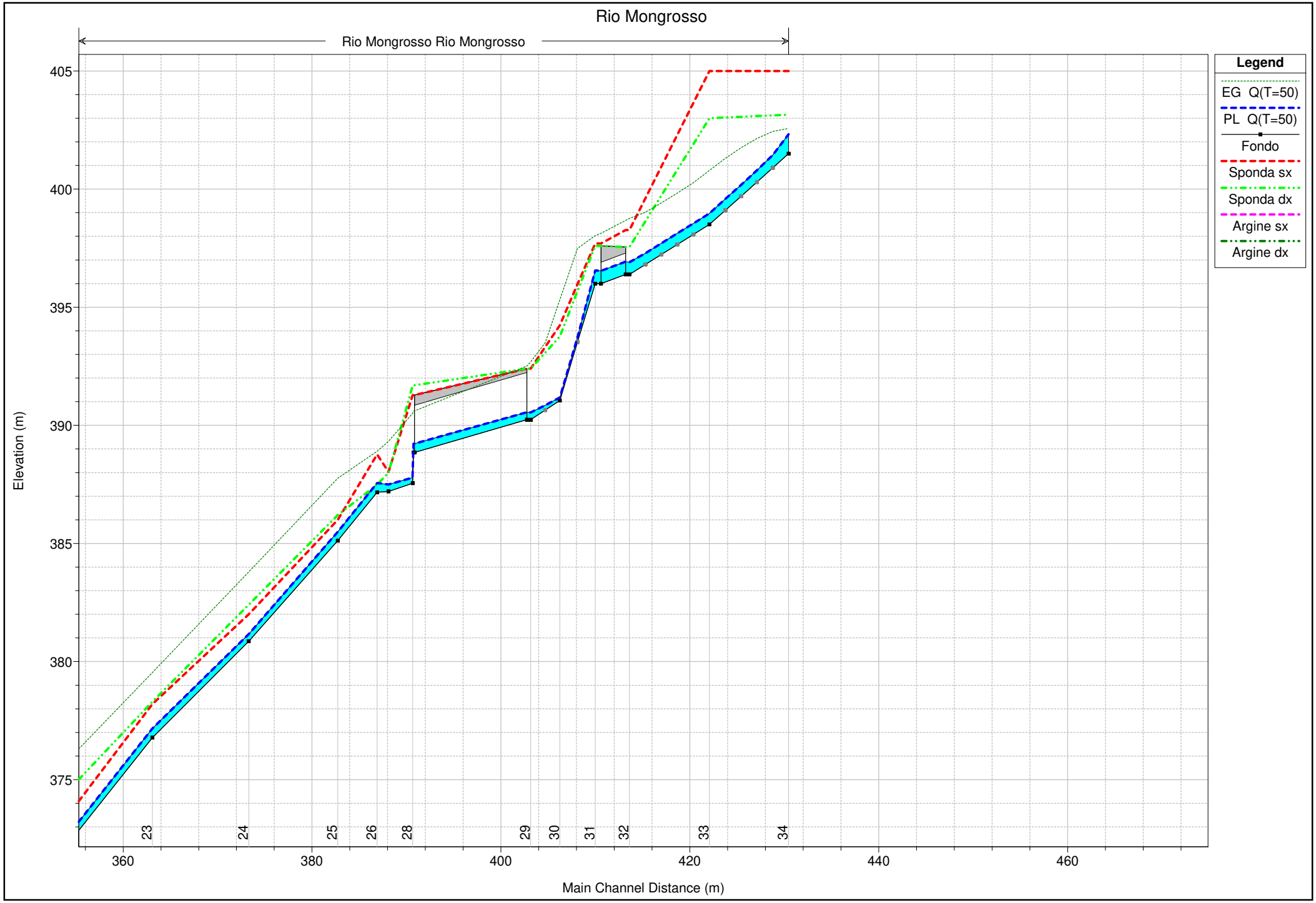
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Angassino	3.07	Tr 50	58.00	349.09	349.77	353.39	3.62	351.56	1.79	350.34	351.86	0.056742	6.40	9.06	13.42	2.49
Angassino	3.07	Tr 200	119.00	349.09	350.16	353.39	3.23	351.56	1.40	351.10	353.68	0.055749	8.31	14.31	13.49	2.58
Angassino	3.07	Tr 500	140.00	349.09	350.28	353.39	3.11	351.56	1.28	351.32	354.20	0.054718	8.77	15.97	13.52	2.58
Angassino	3.06	Tr 50	58.00	348.85	349.72	353.39	3.67	352.85	3.13	350.05	350.86	0.023046	4.74	12.23	14.12	1.63
Angassino	3.06	Tr 200	119.00	348.85	350.08	353.39	3.31	352.85	2.77	350.79	352.48	0.032273	6.87	17.32	14.16	1.98
Angassino	3.06	Tr 500	140.00	348.85	350.19	353.39	3.20	352.85	2.66	351.01	352.98	0.033811	7.40	18.93	14.17	2.04
Angassino	3.0551	Tr 50	58.00	348.88	350.06	353.39	3.33	350.28	0.22	350.06	350.64	0.008036	3.37	17.22	14.79	1.00
Angassino	3.0551	Tr 200	119.00	348.88	350.52	353.39	2.87	350.28	-0.24	350.77	351.76	0.011893	4.94	24.07	14.87	1.24
Angassino	3.0551	Tr 500	140.00	348.88	350.57	353.39	2.82	350.28	-0.29	350.99	352.19	0.014966	5.64	24.82	14.87	1.39
Angassino	3.055	Tr 50	58.00	348.08	348.76	353.39	4.63	350.28	1.52	349.26	350.52	0.047075	5.87	9.88	14.59	2.28
Angassino	3.055	Tr 200	119.00	348.08	349.28	353.39	4.11	350.28	1.00	349.98	351.65	0.032457	6.82	17.44	14.69	2.00
Angassino	3.055	Tr 500	140.00	348.08	349.40	353.39	3.99	350.28	0.88	350.19	352.08	0.032646	7.25	19.31	14.72	2.02
Angassino	3.05	Tr 50	58.00	347.96	348.84	353.39	4.55	352.06	3.22	349.14	349.88	0.020381	4.52	12.83	14.57	1.54
Angassino	3.05	Tr 200	119.00	347.96	349.35	353.39	4.04	352.06	2.71	349.86	351.11	0.020219	5.87	20.29	14.64	1.59
Angassino	3.05	Tr 500	140.00	347.96	349.48	353.39	3.91	352.06	2.58	350.07	351.52	0.021482	6.34	22.08	14.65	1.65
Angassino	3.045	Tr 50	58.00	347.96	349.37	353.39	4.02	352.06	2.69	349.14	349.78	0.004607	2.82	20.56	14.64	0.76
Angassino	3.045	Tr 200	119.00	347.96	350.17	353.39	3.22	352.06	1.89	349.86	350.86	0.004885	3.70	32.20	14.74	0.80
Angassino	3.045	Tr 500	140.00	347.96	350.40	353.39	2.99	352.06	1.66	350.07	351.18	0.004972	3.93	35.66	14.77	0.81
Angassino	3.044		Bridge													
Angassino	3.043	Tr 50	58.00	347.96	349.14	353.39	4.25	352.06	2.92	349.14	349.72	0.008098	3.38	17.17	14.61	0.99
Angassino	3.043	Tr 200	119.00	347.96	349.86	353.39	3.53	352.06	2.20	349.86	350.80	0.007710	4.29	27.72	14.70	1.00
Angassino	3.043	Tr 500	140.00	347.96	350.07	353.39	3.32	352.06	1.99	350.07	351.12	0.007706	4.54	30.84	14.73	1.00
Angassino	3.04	Tr 50	58.00	347.39	348.23	351.09	2.86	350.49	2.26	348.63	349.58	0.028533	5.16	11.24	13.55	1.81
Angassino	3.04	Tr 200	119.00	347.39	348.88	351.09	2.21	350.49	1.61	349.39	350.66	0.019410	5.92	20.09	13.71	1.56
Angassino	3.04	Tr 500	140.00	347.39	349.08	351.09	2.01	350.49	1.41	349.62	350.99	0.018059	6.13	22.85	13.77	1.52
Angassino	3.0351	Tr 50	58.00	347.20	348.16	351.70	3.54	351.70	3.54	348.38	349.06	0.016101	4.21	13.79	14.51	1.38
Angassino	3.0351	Tr 200	119.00	347.20	348.67	351.70	3.03	351.70	3.03	349.11	350.27	0.017414	5.60	21.25	14.58	1.48
Angassino	3.0351	Tr 500	140.00	347.20	348.83	351.70	2.87	351.70	2.87	349.33	350.62	0.017389	5.93	23.61	14.60	1.49
Angassino	3.035	Tr 50	58.00	346.40	347.35	351.70	4.35	351.70	4.35	347.82	348.98	0.041539	5.66	10.26	14.46	2.14
Angassino	3.035	Tr 200	119.00	346.40	347.86	351.70	3.84	351.70	3.84	348.54	350.19	0.031433	6.76	17.59	14.52	1.96
Angassino	3.035	Tr 500	140.00	346.40	348.01	351.70	3.69	351.70	3.69	348.77	350.54	0.029708	7.04	19.87	14.54	1.92
Angassino	3.03	Tr 50	58.00	345.87	346.70	348.29	1.59	348.29	1.59	347.05	347.89	0.025261	4.84	11.98	14.59	1.71
Angassino	3.03	Tr 200	119.00	345.87	347.14	348.29	1.15	348.29	1.15	347.77	349.25	0.026859	6.43	18.49	14.70	1.83
Angassino	3.03	Tr 500	140.00	345.87	347.28	348.29	1.01	348.29	1.01	347.99	349.65	0.026793	6.82	20.54	14.73	1.84
Angassino	3.02	Tr 50	58.00	345.18	346.12	348.29	2.17	348.29	2.17	346.35	347.03	0.016572	4.23	13.73	14.76	1.40
Angassino	3.02	Tr 200	119.00	345.18	346.60	348.29	1.69	348.29	1.69	347.08	348.27	0.018762	5.71	20.82	14.85	1.54

HEC-RAS Plan: Angass09 River: Angassino Reach: Angassino (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Angassino	3.02	Tr 500	140.00	345.18	346.74	348.29	1.55	348.29	1.55	347.28	348.64	0.019292	6.11	22.91	14.88	1.57
Angassino	3.018	Tr 50	58.00	344.88	346.13	348.31	2.18	348.31	2.18	346.13	346.75	0.008253	3.49	16.61	13.48	1.00
Angassino	3.018	Tr 200	119.00	344.88	346.89	348.31	1.42	348.31	1.42	346.89	347.88	0.007851	4.42	26.93	13.64	1.00
Angassino	3.018	Tr 500	140.00	344.88	347.11	348.31	1.20	348.31	1.20	347.11	348.22	0.007810	4.66	30.05	13.70	1.00
Angassino	3.017	Tr 50	58.00	343.38	344.08	347.58	3.50	346.48	2.40	344.61	345.97	0.042060	6.09	9.53	13.60	2.32
Angassino	3.017	Tr 200	119.00	343.38	344.60	347.58	2.98	346.48	1.88	345.37	347.23	0.030719	7.19	16.55	13.67	2.08
Angassino	3.017	Tr 500	140.00	343.38	344.76	347.58	2.82	346.48	1.72	345.60	347.59	0.028681	7.45	18.78	13.69	2.03
Angassino	3.016		Bridge													
Angassino	3.015	Tr 50	58.00	343.38	344.14	347.58	3.44	346.48	2.34	344.61	345.76	0.033013	5.64	10.28	13.60	2.07
Angassino	3.015	Tr 200	119.00	343.38	344.65	347.58	2.93	346.48	1.83	345.37	347.07	0.026813	6.88	17.29	13.67	1.95
Angassino	3.015	Tr 500	140.00	343.38	344.82	347.58	2.76	346.48	1.66	345.60	347.44	0.025422	7.17	19.52	13.70	1.92
Angassino	3.0122	Tr 50	58.00	341.49	342.24	346.09	3.85	346.09	3.85	342.78	344.21	0.044213	6.23	9.31	13.61	2.40
Angassino	3.0122	Tr 200	119.00	341.49	342.68	346.09	3.41	346.09	3.41	343.53	345.74	0.038082	7.75	15.35	13.70	2.34
Angassino	3.0122	Tr 500	140.00	341.49	342.82	346.09	3.27	346.09	3.27	343.75	346.16	0.036397	8.11	17.27	13.73	2.31
Angassino	3.01215		Bridge													
Angassino	3.012	Tr 50	58.00	341.49	342.30	346.09	3.79	346.09	3.79	342.78	343.94	0.032559	5.66	10.24	13.63	2.08
Angassino	3.012	Tr 200	119.00	341.49	342.74	346.09	3.35	346.09	3.35	343.53	345.49	0.032142	7.35	16.20	13.72	2.16
Angassino	3.012	Tr 500	140.00	341.49	342.88	346.09	3.21	346.09	3.21	343.75	345.92	0.031348	7.73	18.12	13.75	2.15
Angassino	3.01	Tr 50	58.00	338.86	341.70	344.16	2.46	344.53	2.83	340.29	341.83	0.000670	1.61	36.10	13.80	0.32
Angassino	3.01	Tr 200	119.00	338.86	344.32	344.16	-0.16	344.53	0.21	341.05	344.46	0.000382	1.64	72.65	14.09	0.23
Angassino	3.01	Tr 500	140.00	338.86	344.61	344.16	-0.45	344.53	-0.08	341.28	344.78	0.000455	1.82	76.73	14.10	0.25
Angassino	3.005		Bridge													
Angassino	3.003	Tr 50	58.00	338.86	341.70	344.16	2.46	344.53	2.83	340.29	341.83	0.000674	1.61	36.04	13.80	0.32
Angassino	3.003	Tr 200	119.00	338.86	344.09	344.16	0.07	344.53	0.44	341.05	344.24	0.000432	1.71	69.45	14.07	0.25
Angassino	3.003	Tr 500	140.00	338.86	344.33	344.16	-0.17	344.53	0.20	341.28	344.52	0.000526	1.92	72.76	14.09	0.27
Angassino	3.00	Tr 50	58.00	338.56	341.70	342.57	0.87	343.08	1.38	339.79	341.79	0.000398	1.34	43.13	14.07	0.30
Angassino	3.00	Tr 200	119.00	338.56	344.10	342.57	-1.53	343.08	-1.02	340.56	344.22	0.000321	1.54	77.28	14.31	0.28
Angassino	3.00	Tr 500	140.00	338.56	344.33	342.57	-1.76	343.08	-1.25	340.78	344.49	0.000395	1.74	80.65	14.31	0.30

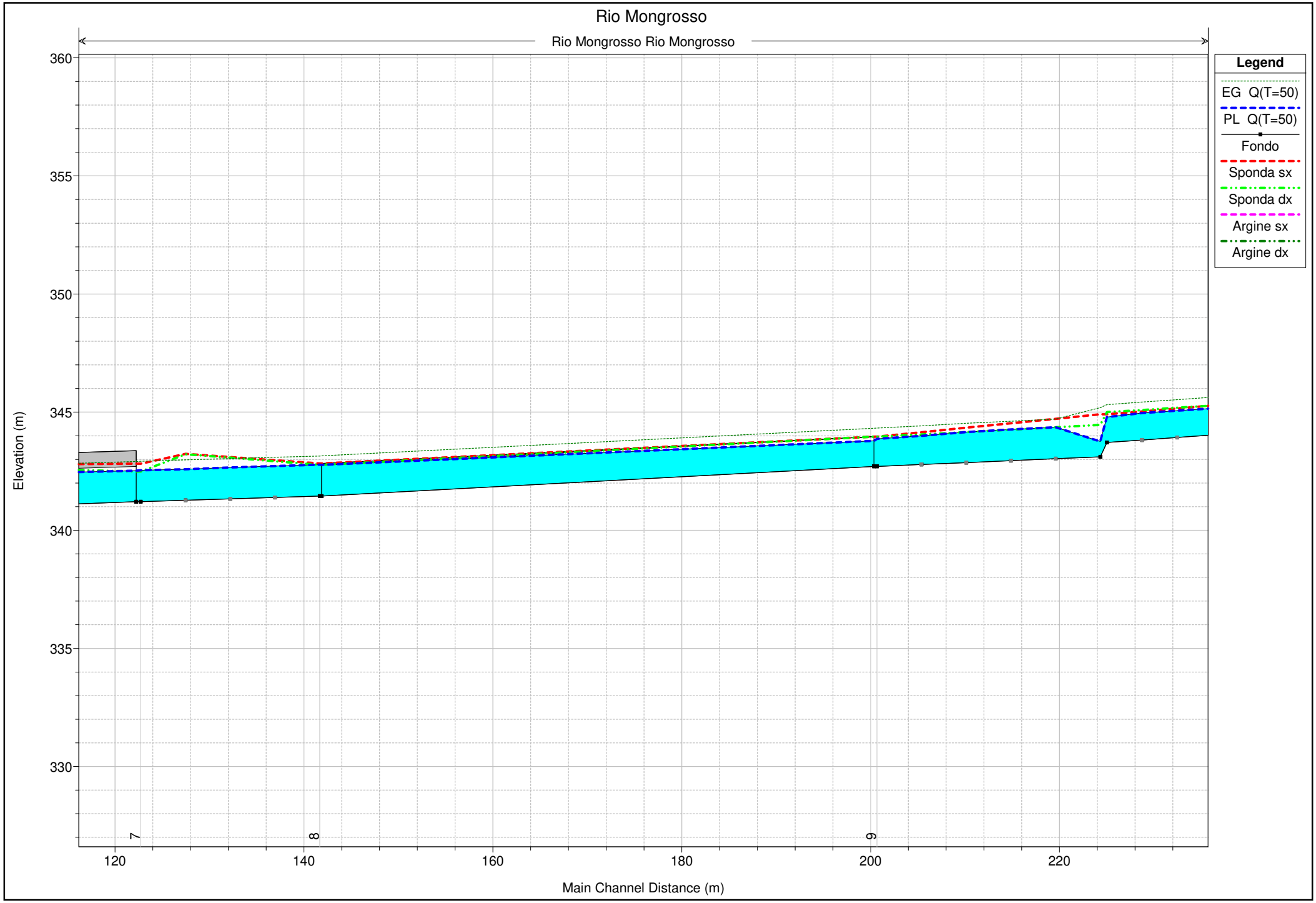
Rio Mongrosso

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati



1 cm Horiz. = 5 m 1 cm Vert. = 2 m

1 cm Horiz. = 5 m 1 cm Vert. = 2 m



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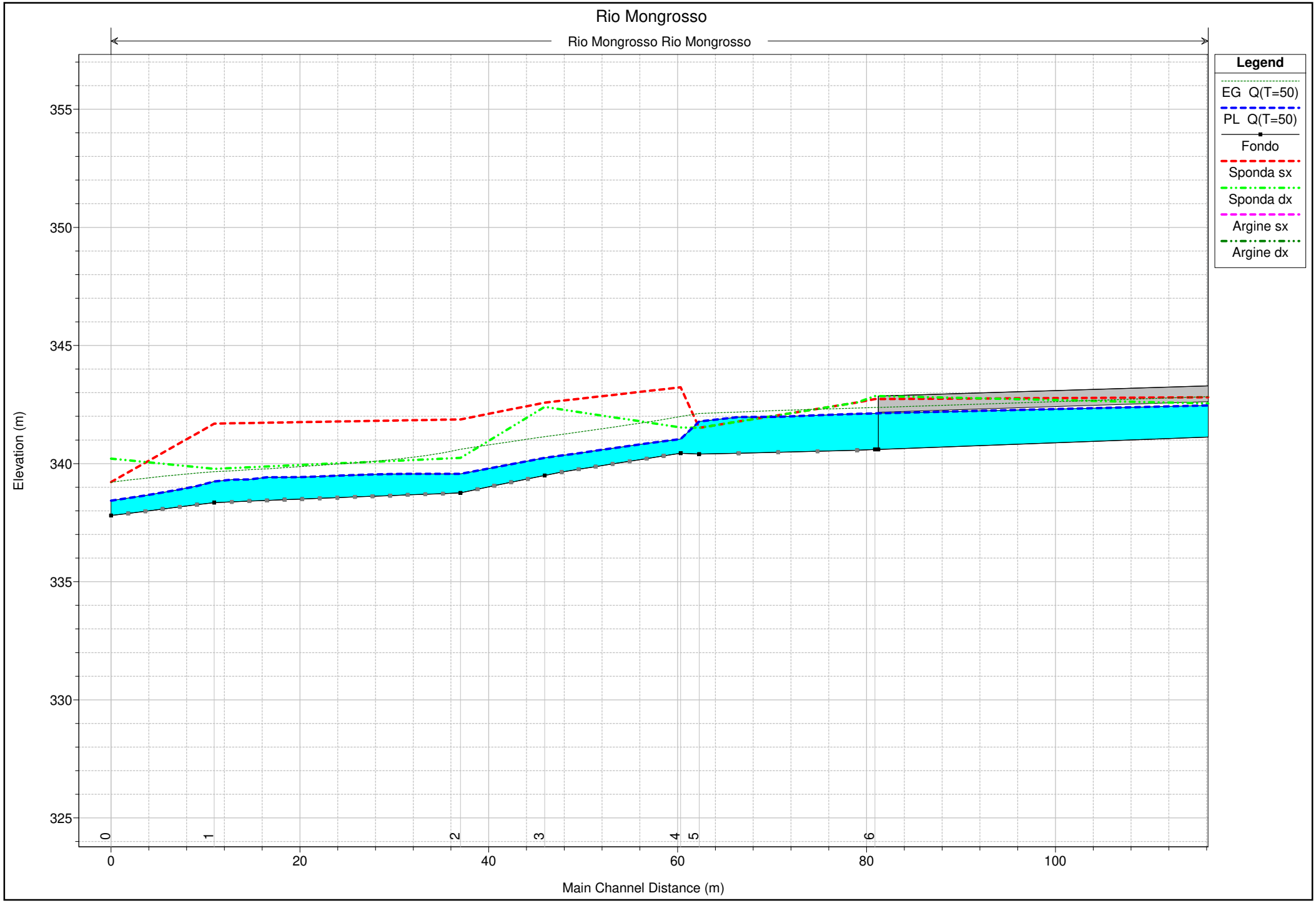

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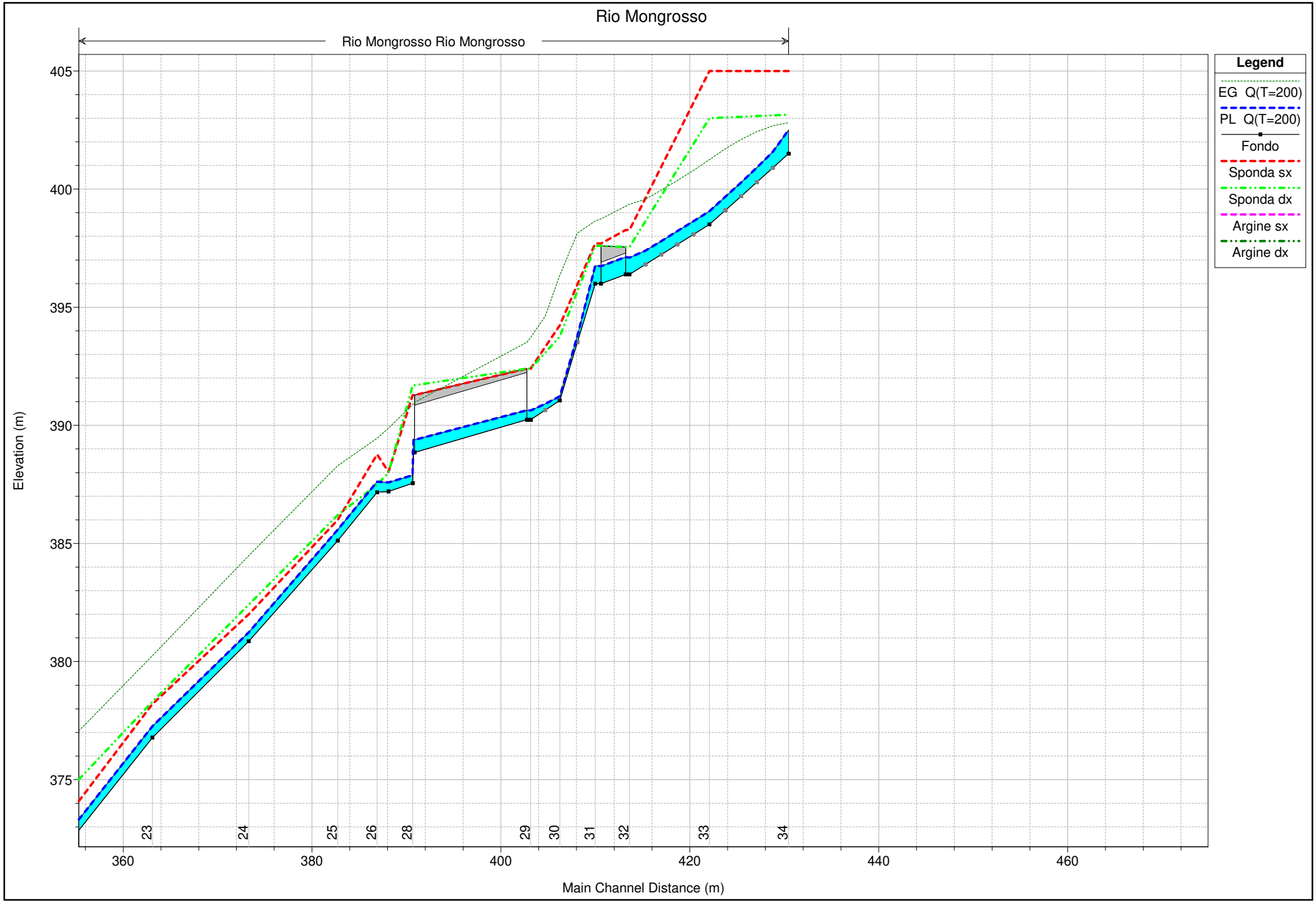

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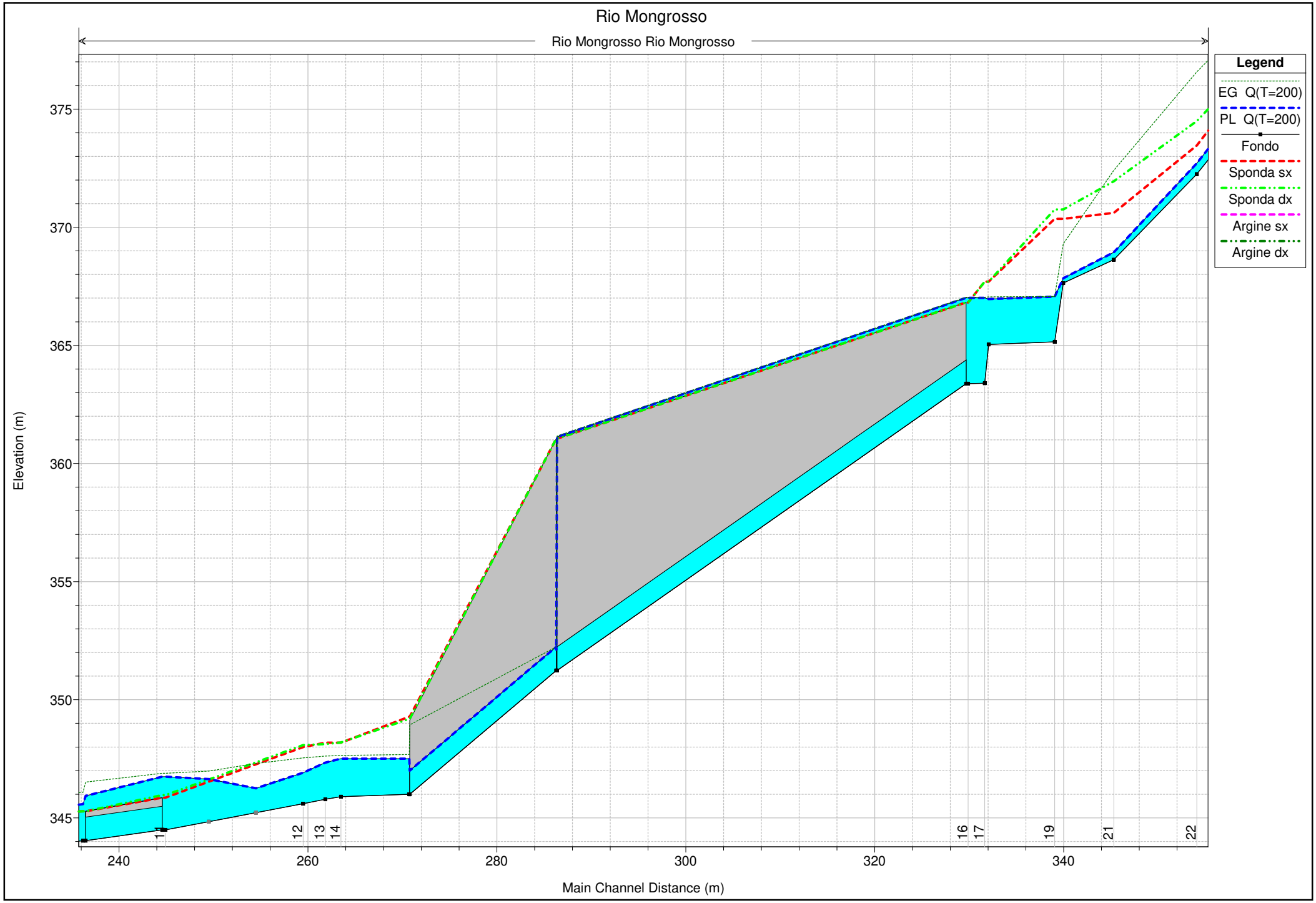

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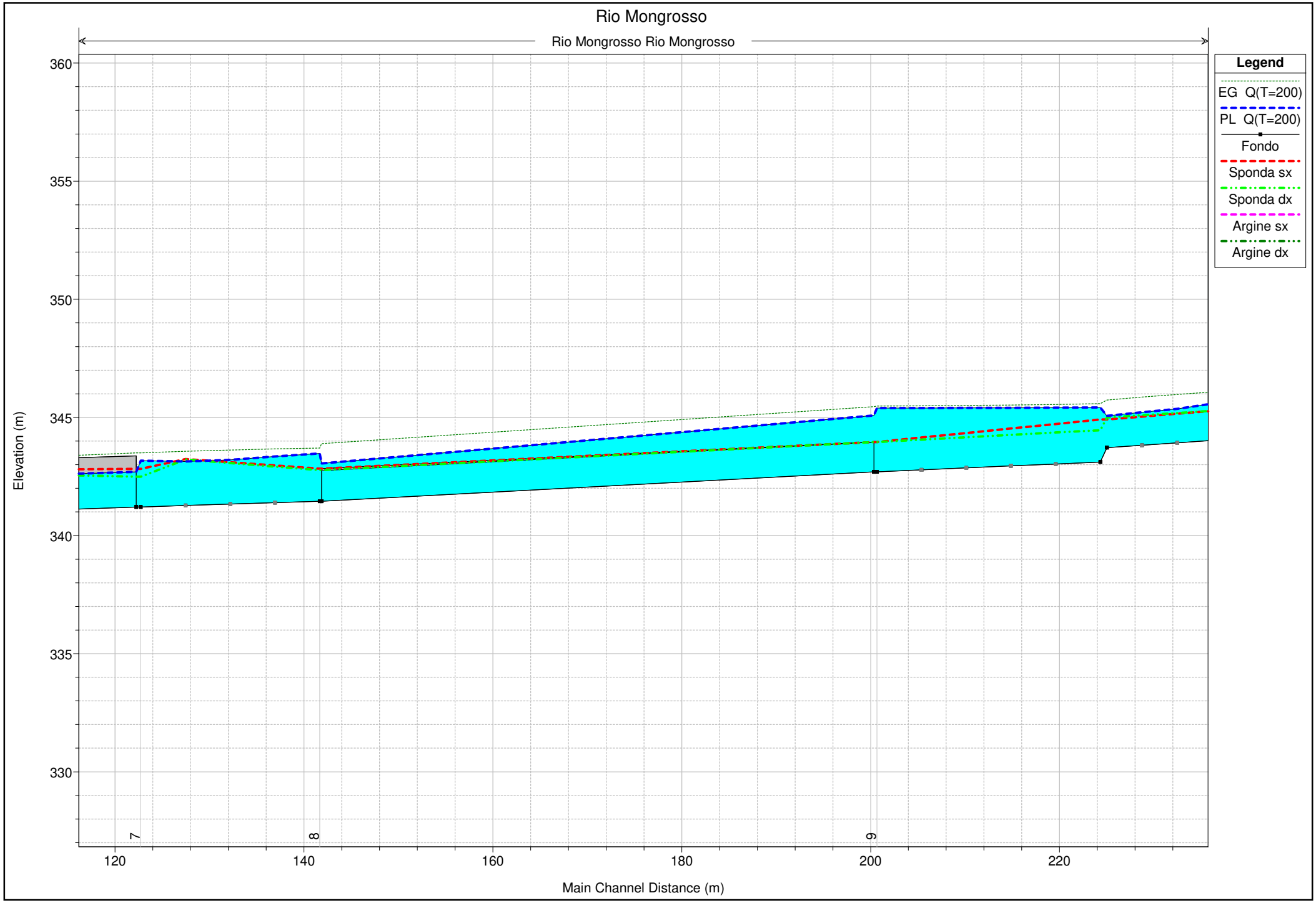

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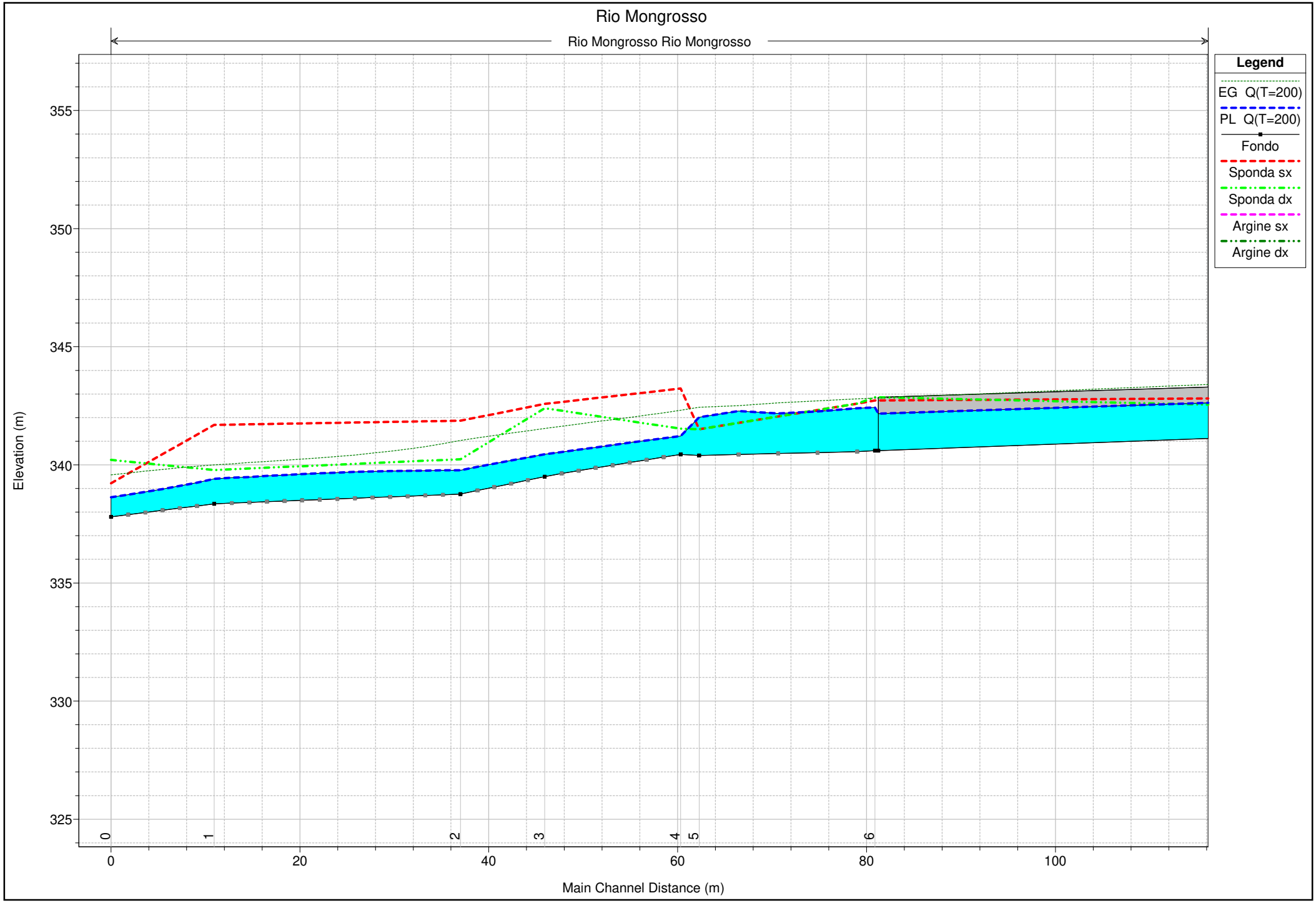
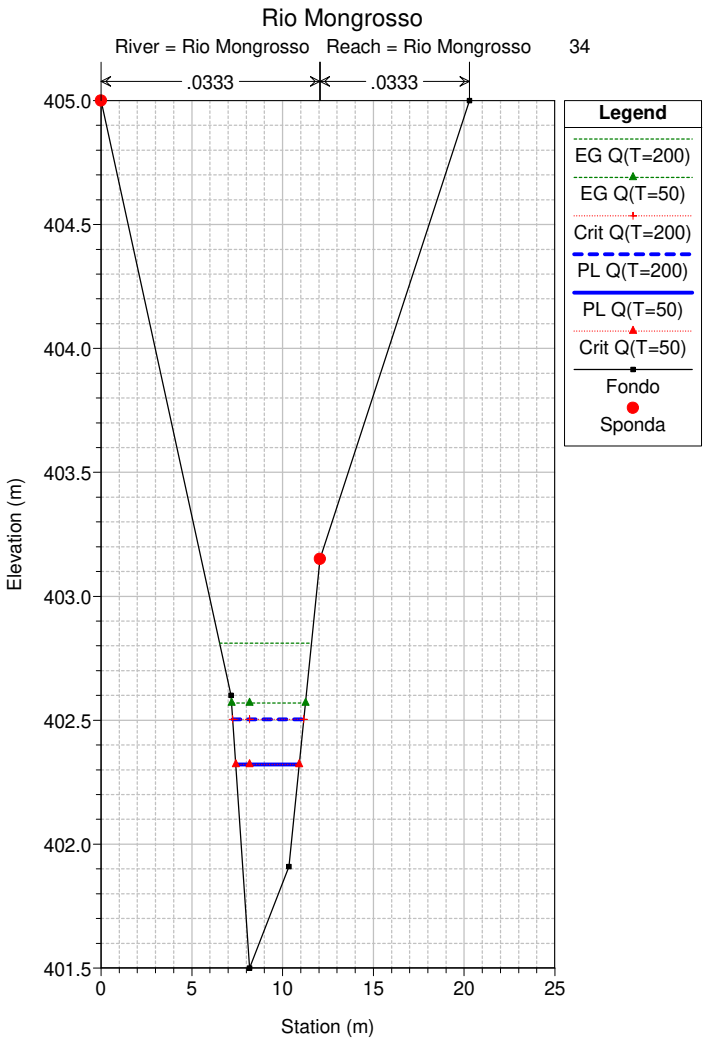
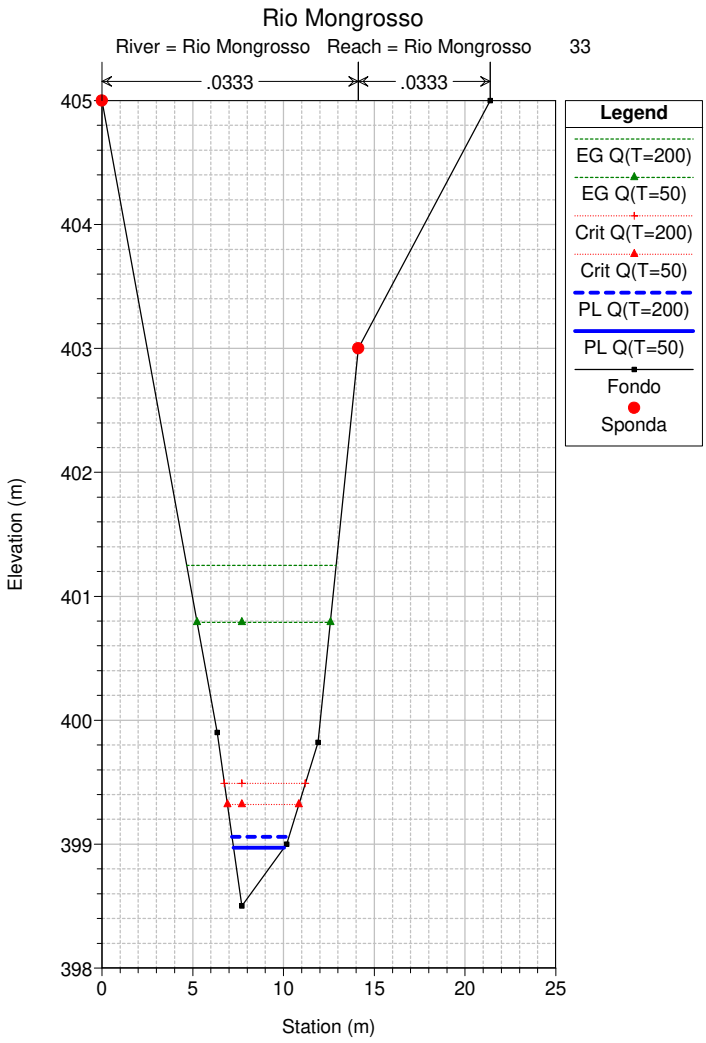
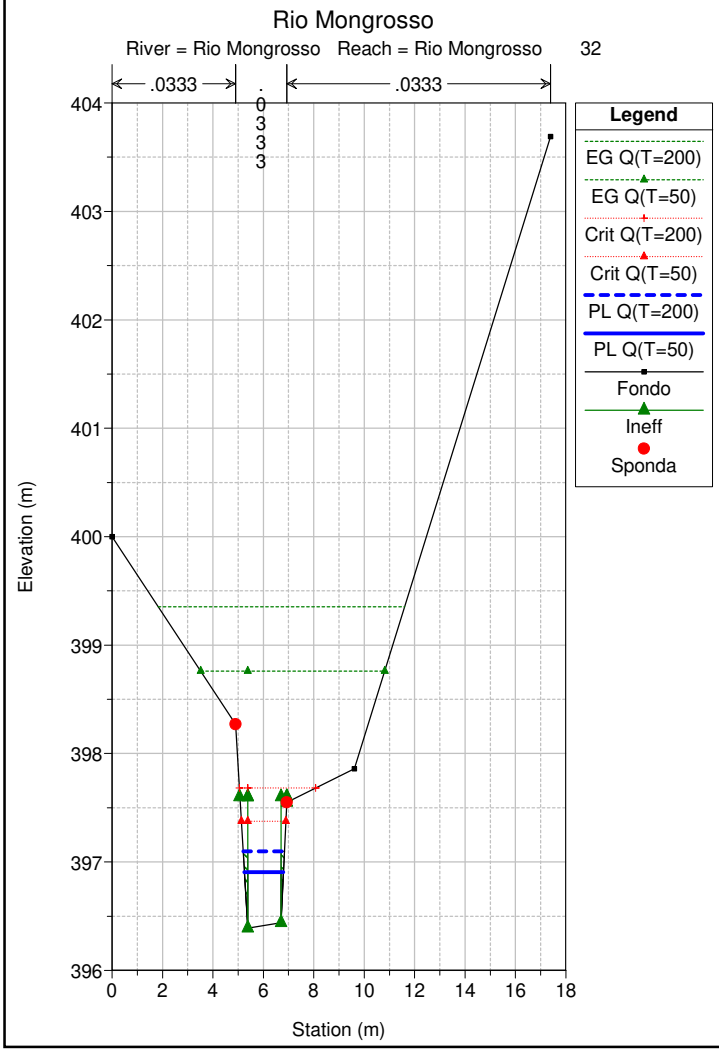


1 cm Horiz. = 5 m 1 cm Vert. = 2 m


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 34
.0333
.0333
Legend
EG Q(T=200)
EG Q(T=50)
Crit Q(T=200)
PL Q(T=200)
PL Q(T=50)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 33
.0333
.0333
Legend
EG Q(T=200)
EG Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
PL Q(T=200)
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 32
.0333
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Legend
EG Q(T=200)
EG Q(T=50)
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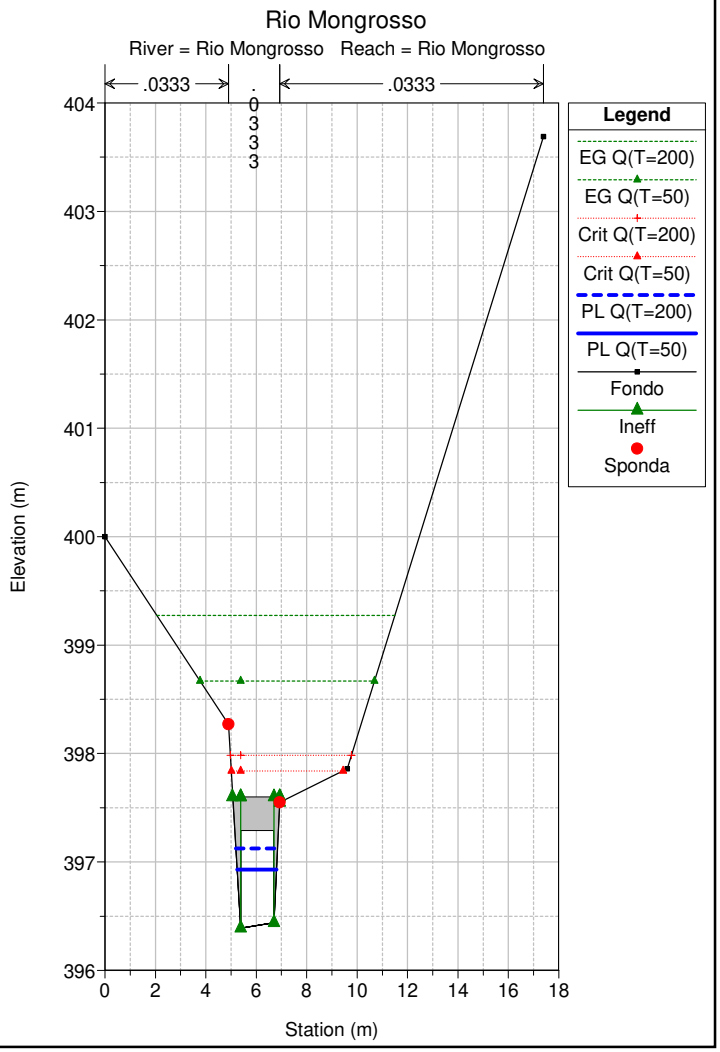
Crit Q(T=50)
PL Q(T=200)
PL Q(T=50)
Fondo
Ineff
Sponda
Elevation (m)
Station (m)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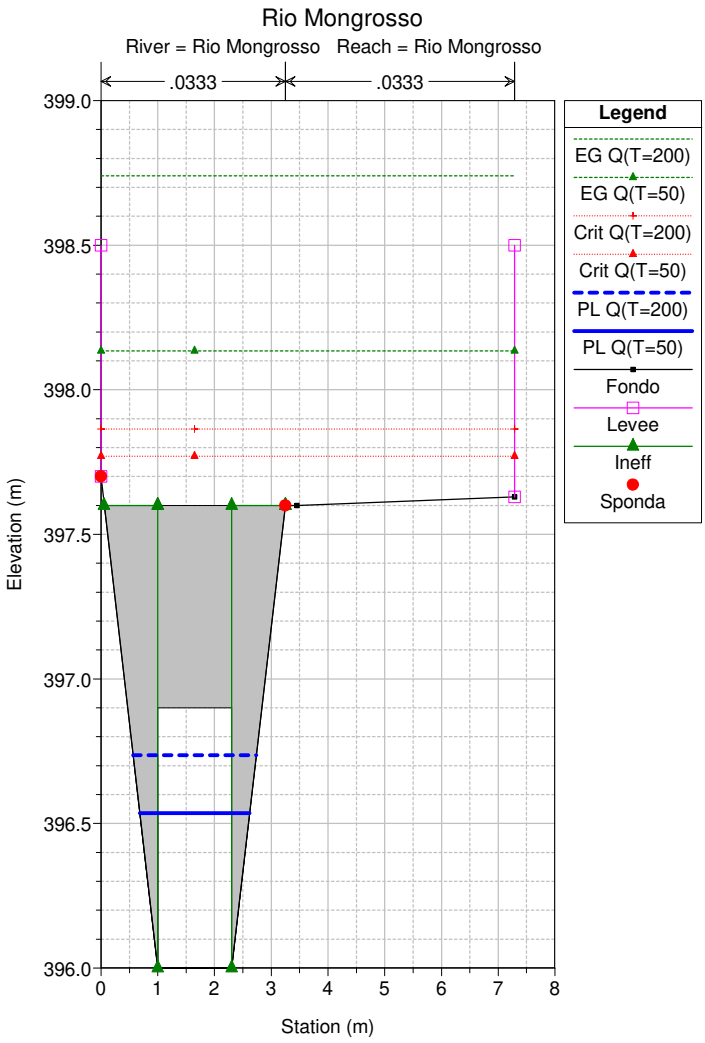
PL Q(T=50)
Fondo
Ineff
Sponda
Elevation (m)
Station (m)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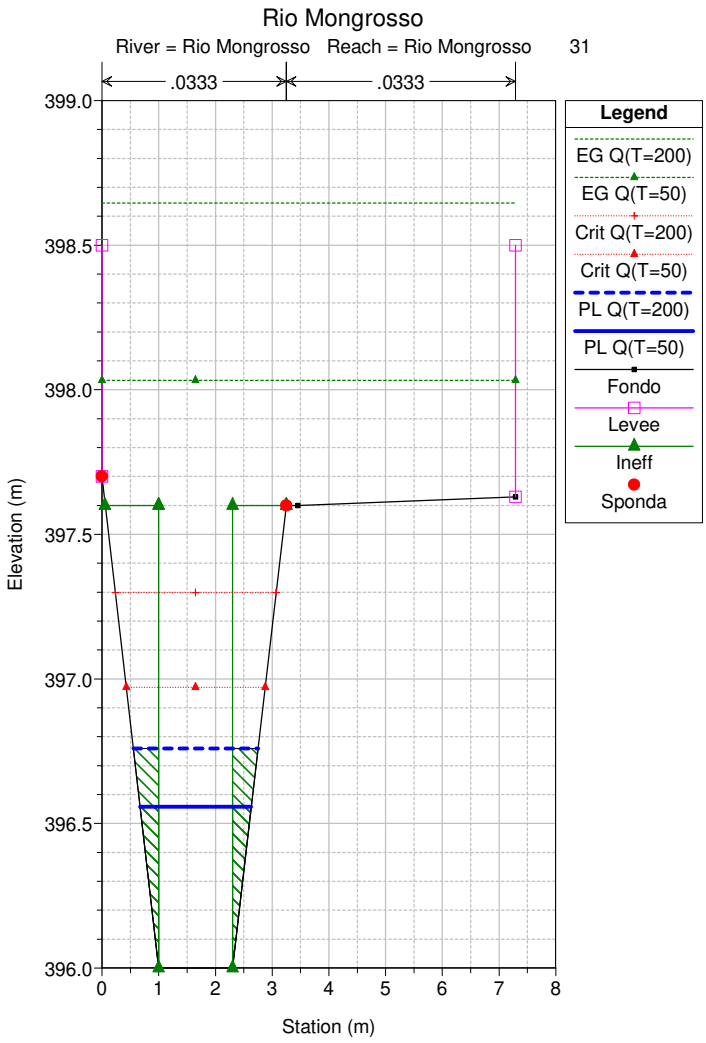
EG Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
PL Q(T=200)
PL Q(T=50)
Fondo
Levee
Ineff
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
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Legend
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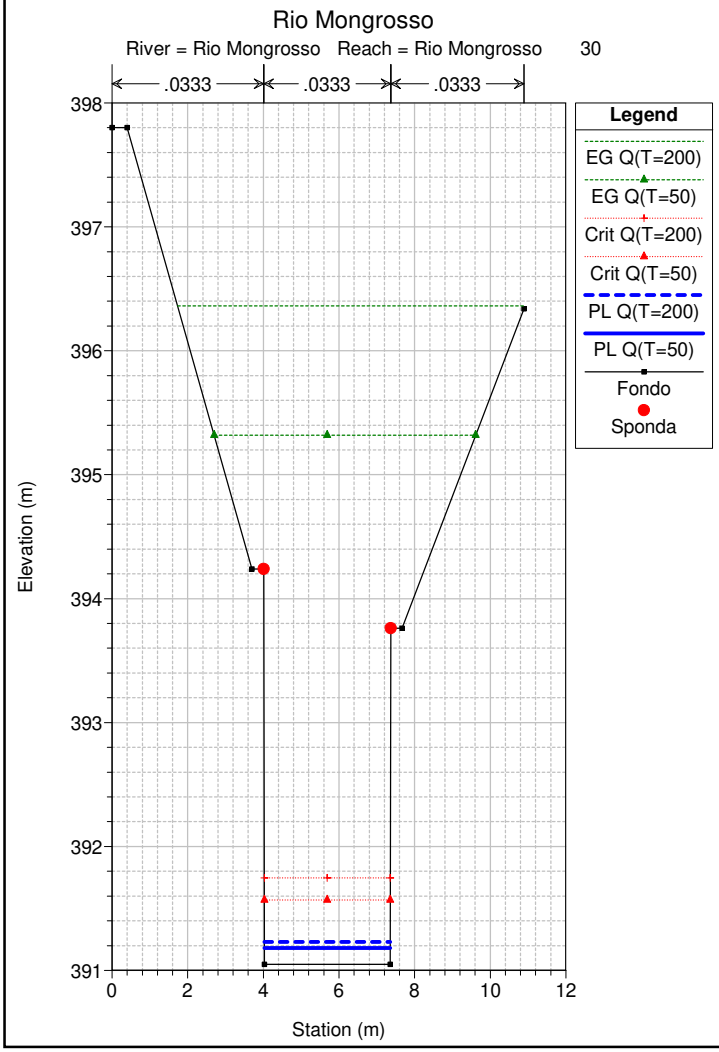
PL Q(T=50)
Fondo
Levee
Ineff
Sponda
Elevation (m)
Station (m)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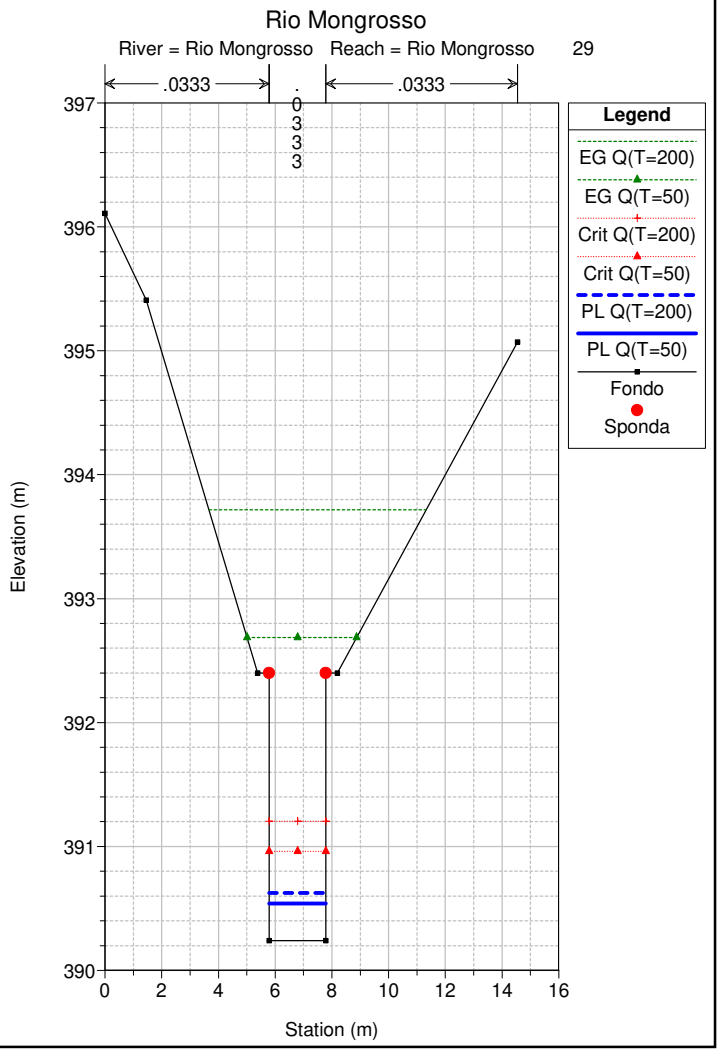
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 29
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Legend
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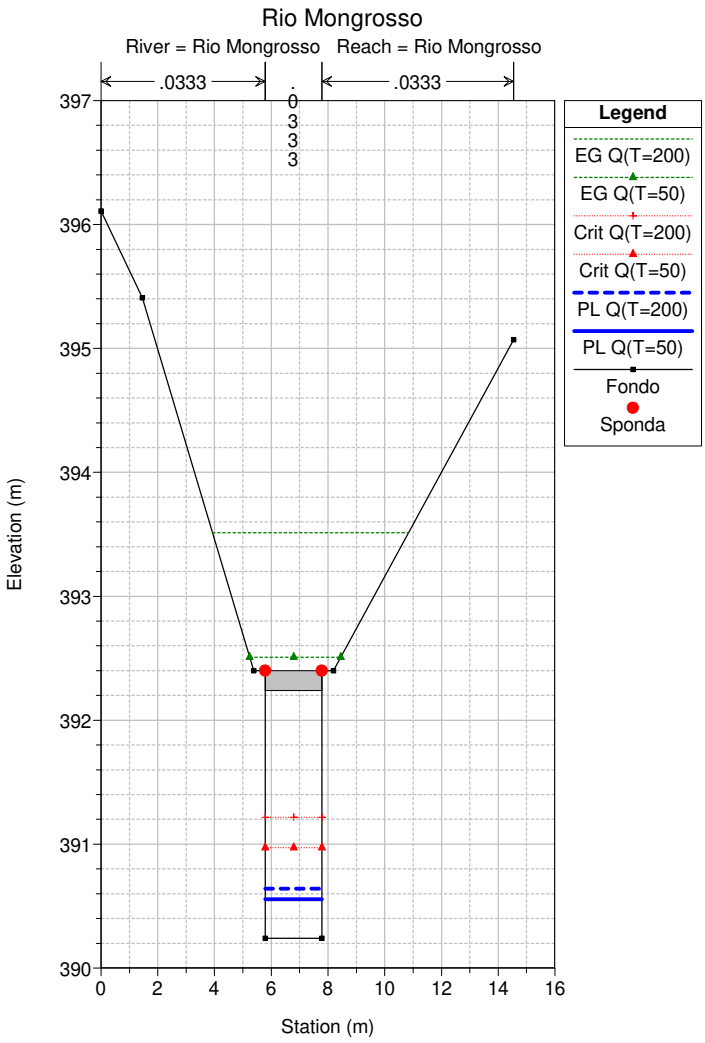
EG Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
PL Q(T=200)
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)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Legend
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EG Q(T=50)
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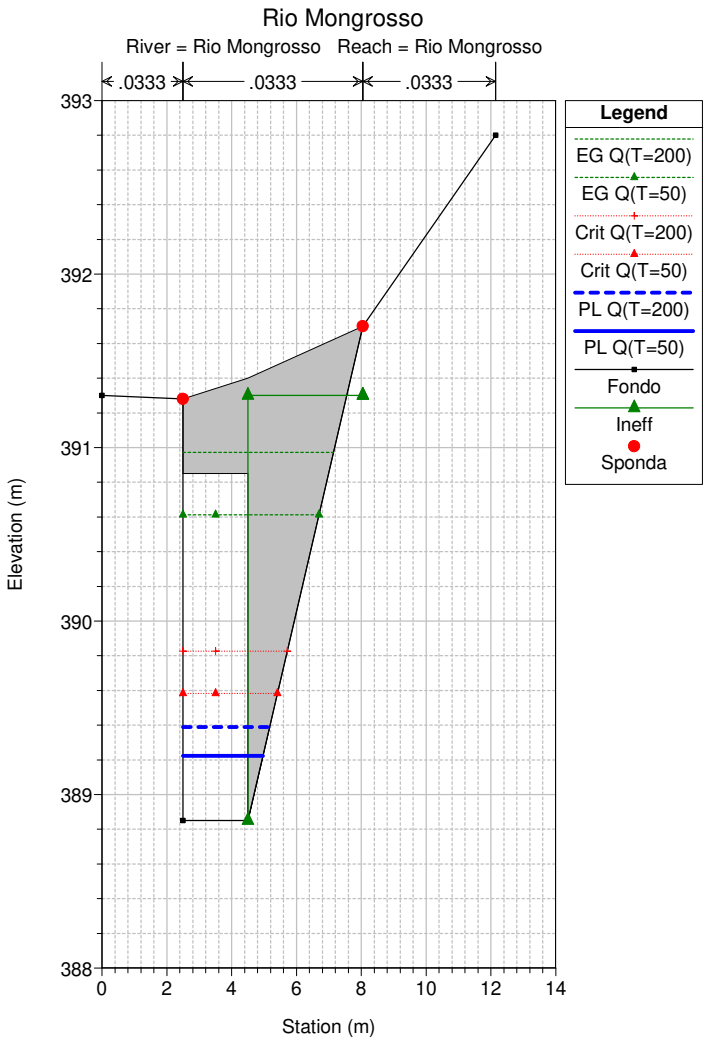
Crit Q(T=50)
PL Q(T=200)
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)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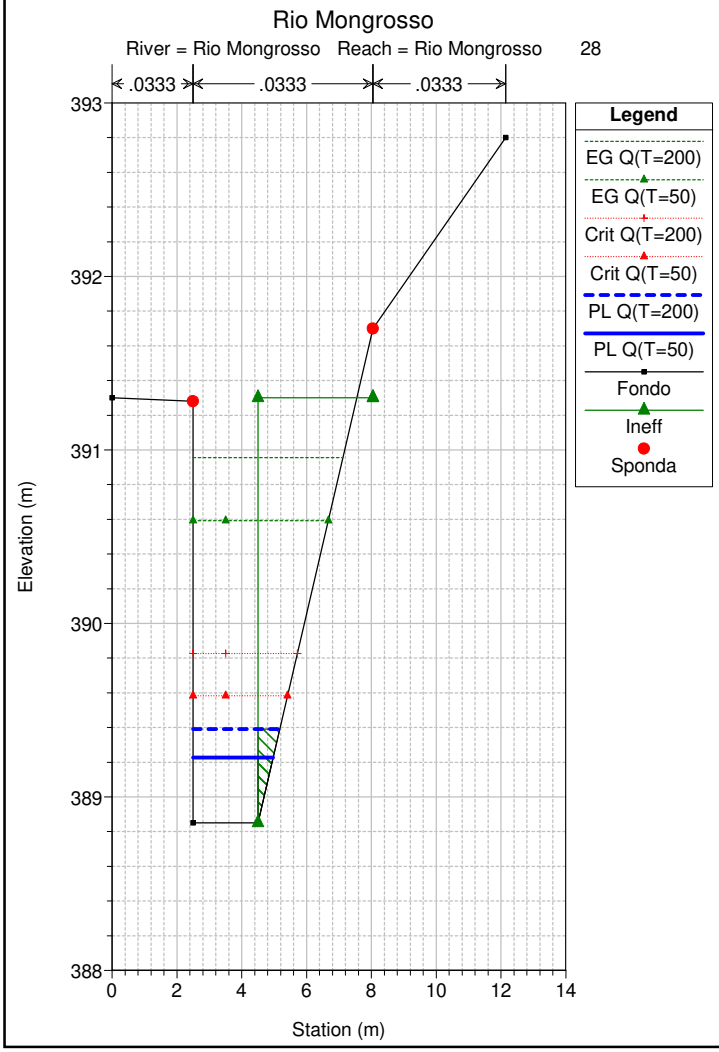
PL Q(T=50)
Fondo
Ineff
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 28
.0333
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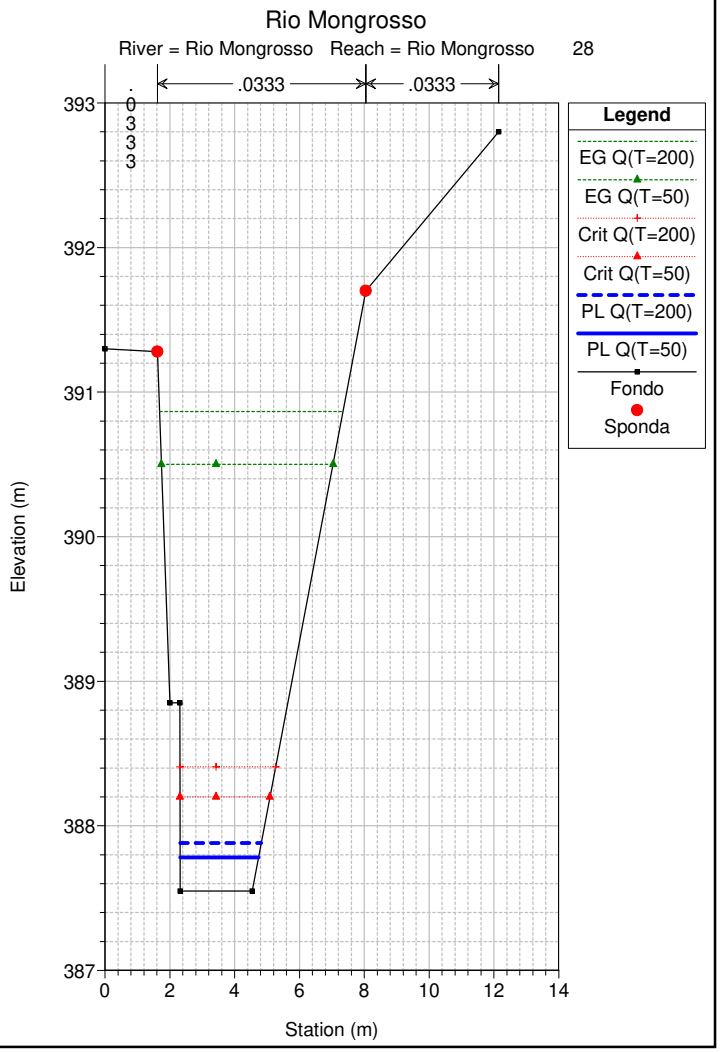
PL Q(T=200)
PL Q(T=50)
Fondo
Ineff
Sponda
Elevation (m)
Station (m)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EG Q(T=50)
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Crit Q(T=50)
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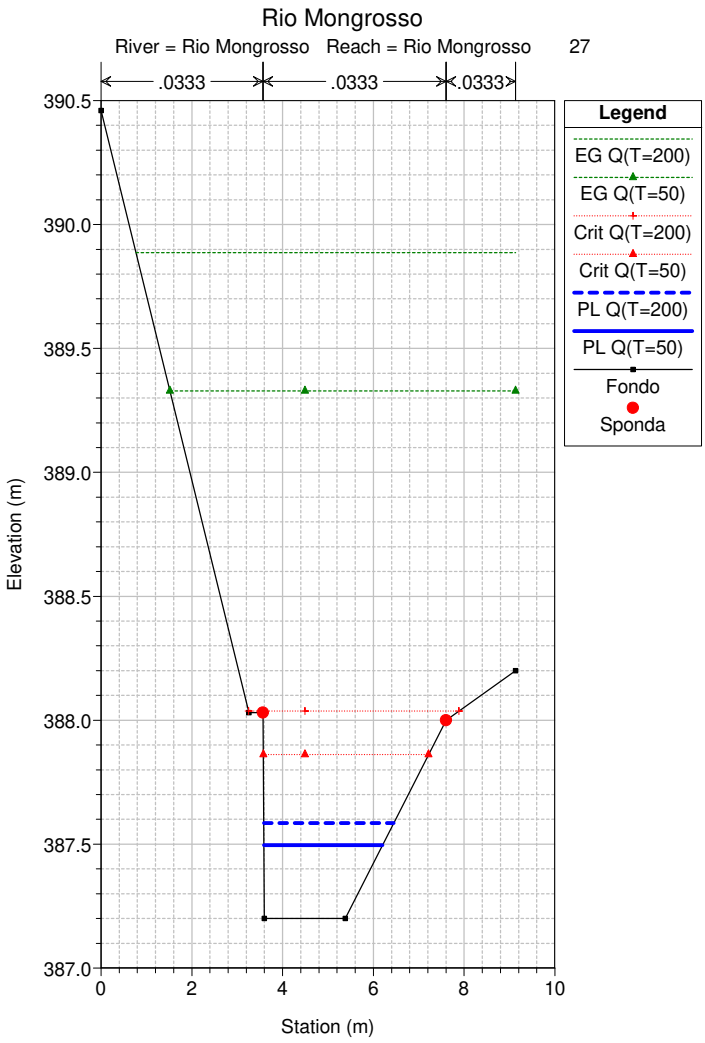
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)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River = Rio Mongrosso Reach = Rio Mongrosso 27
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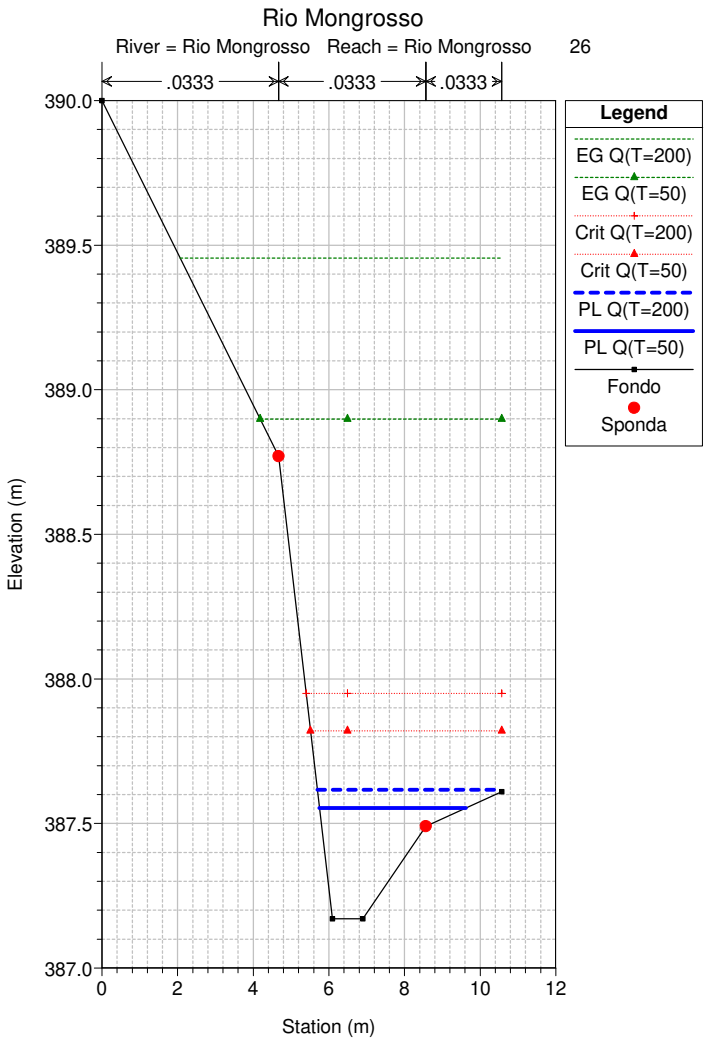
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 26
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Legend
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EG Q(T=50)
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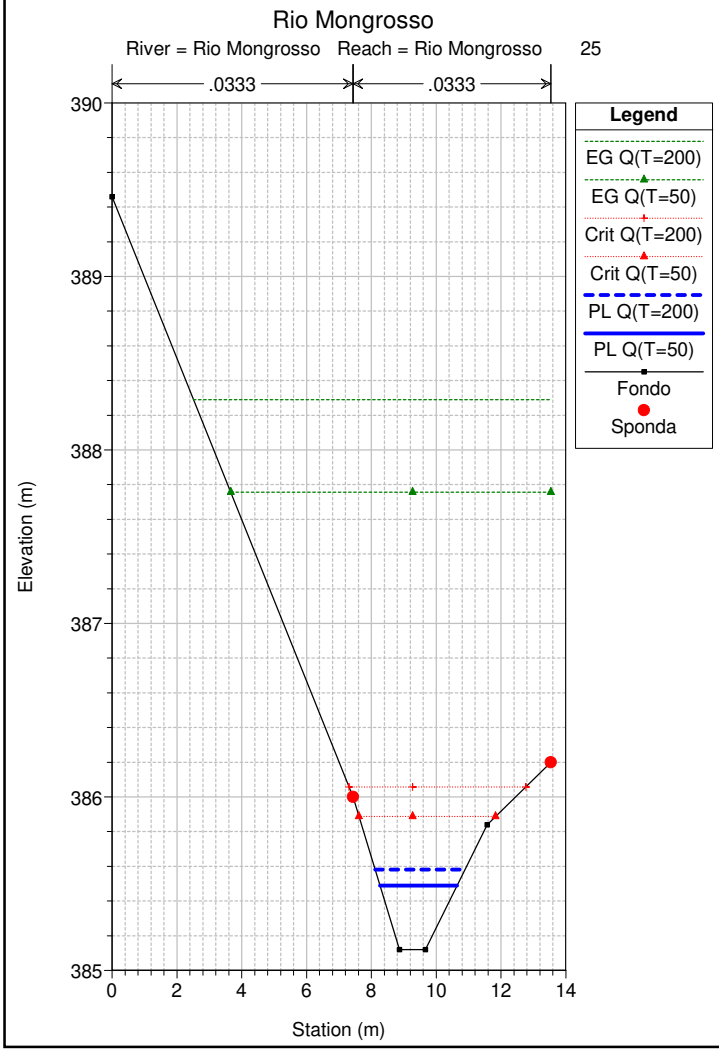
Crit Q(T=50)
PL Q(T=200)
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)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Legend
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EG Q(T=50)
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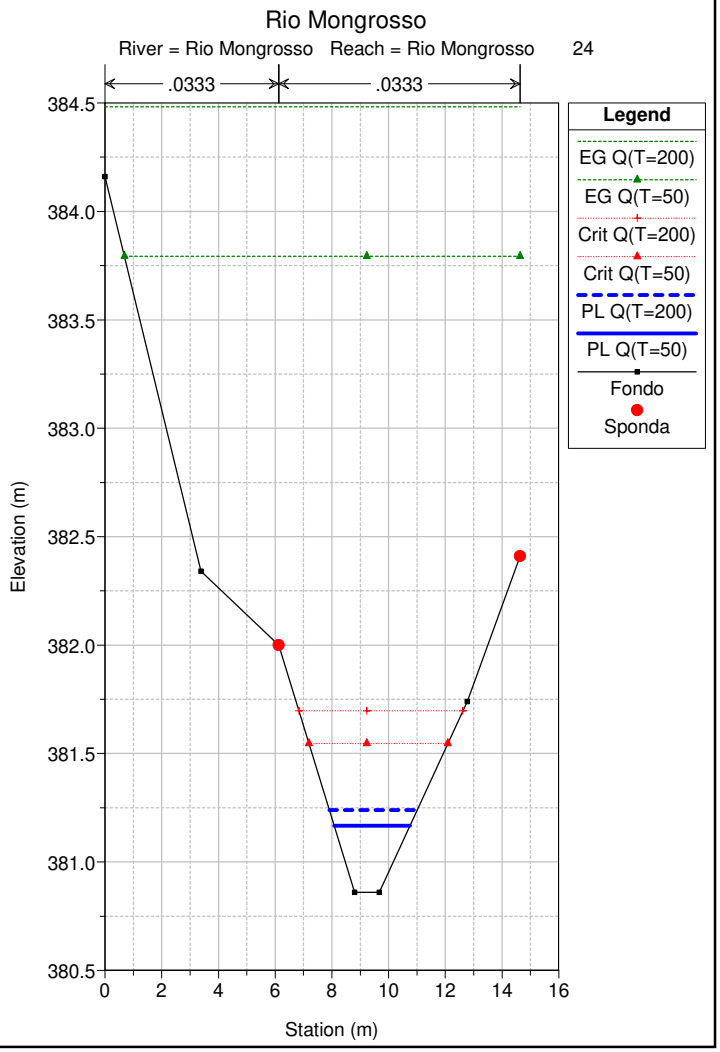
Crit Q(T=50)
PL Q(T=200)
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)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Crit Q(T=50)
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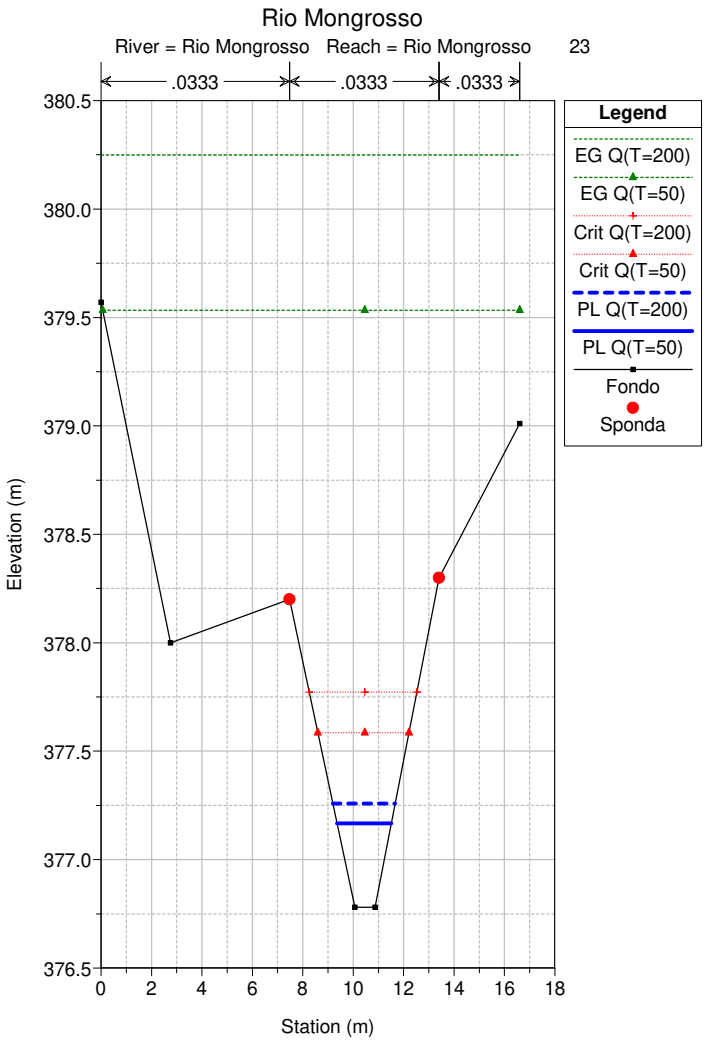
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)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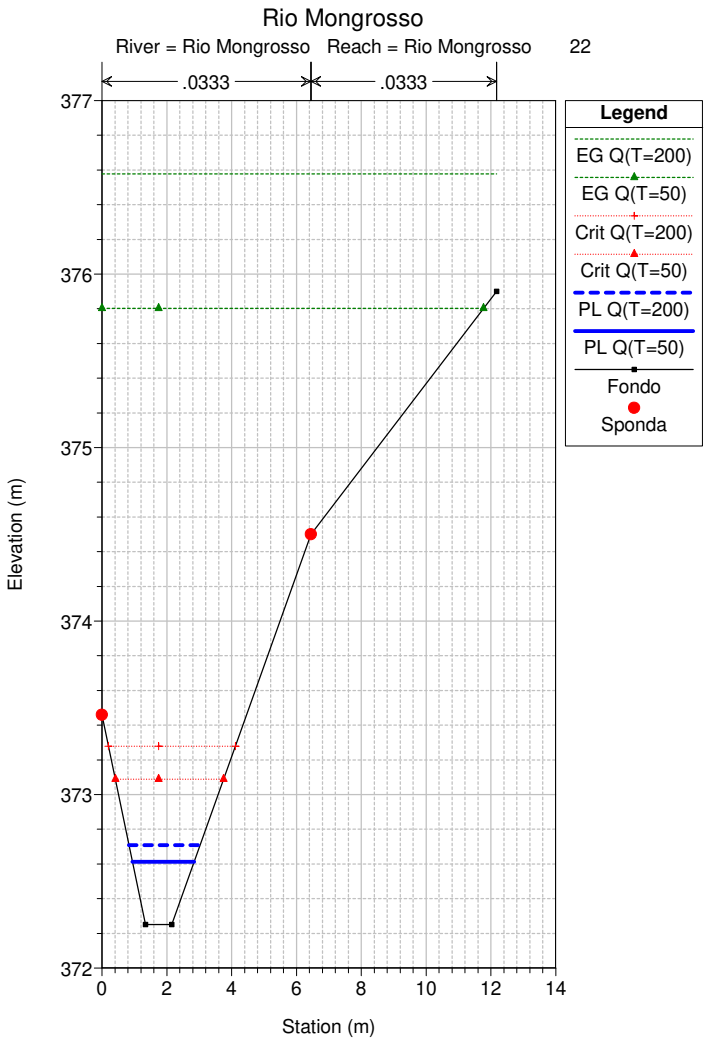
Fondo
Sponda
Elevation (m)
Station (m)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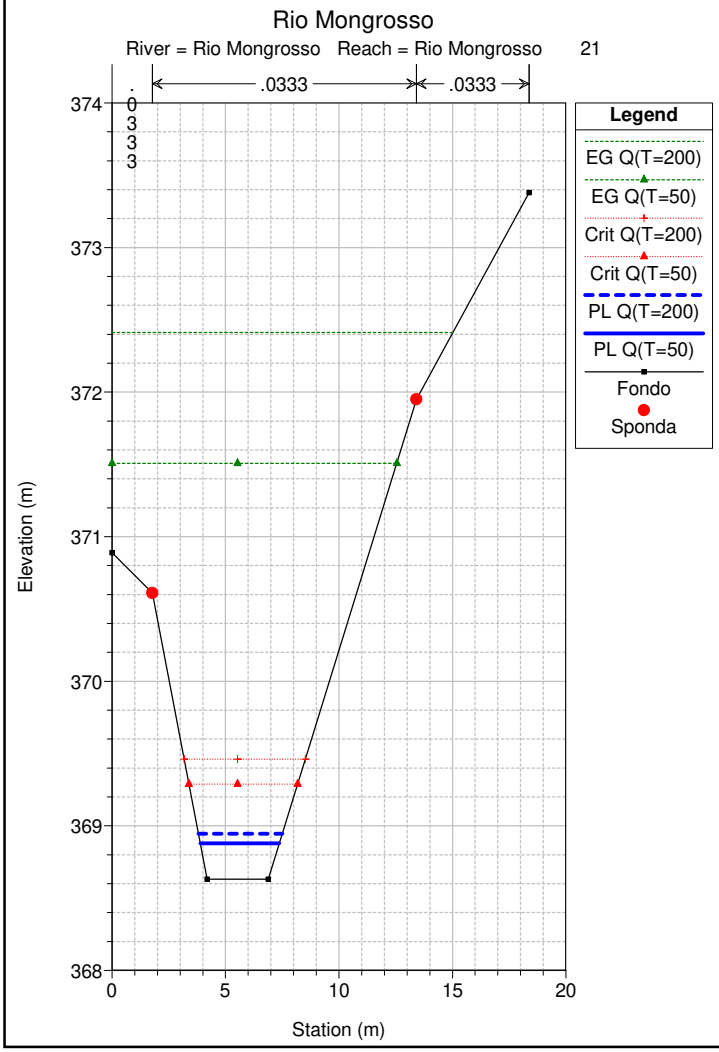
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)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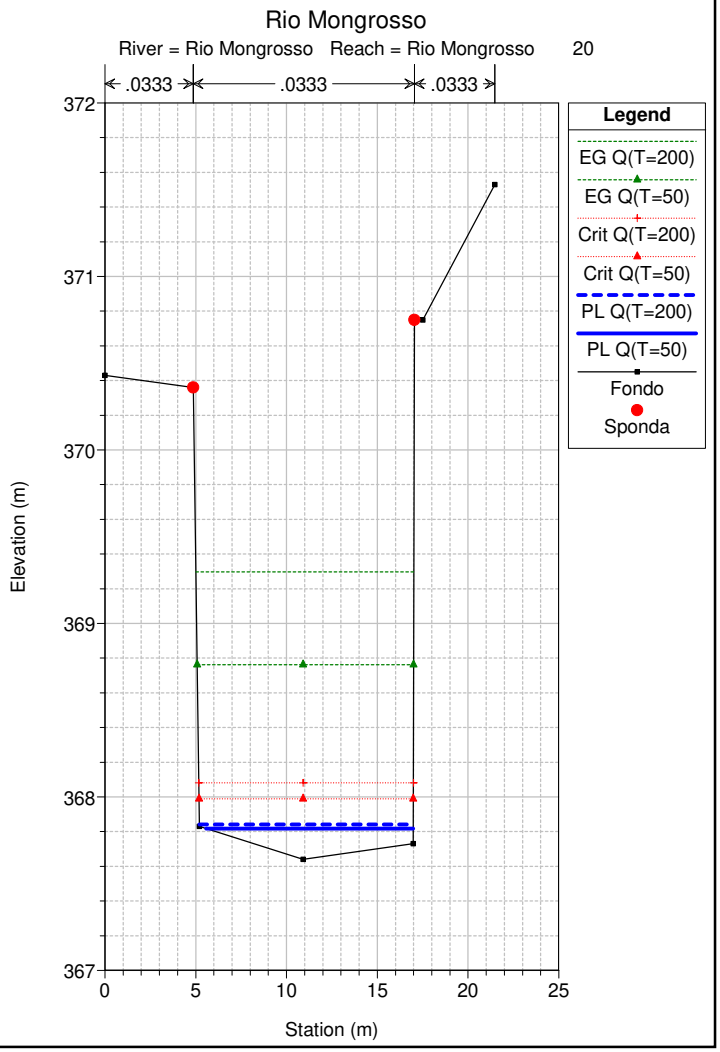
Fondo
Sponda
Elevation (m)
Station (m)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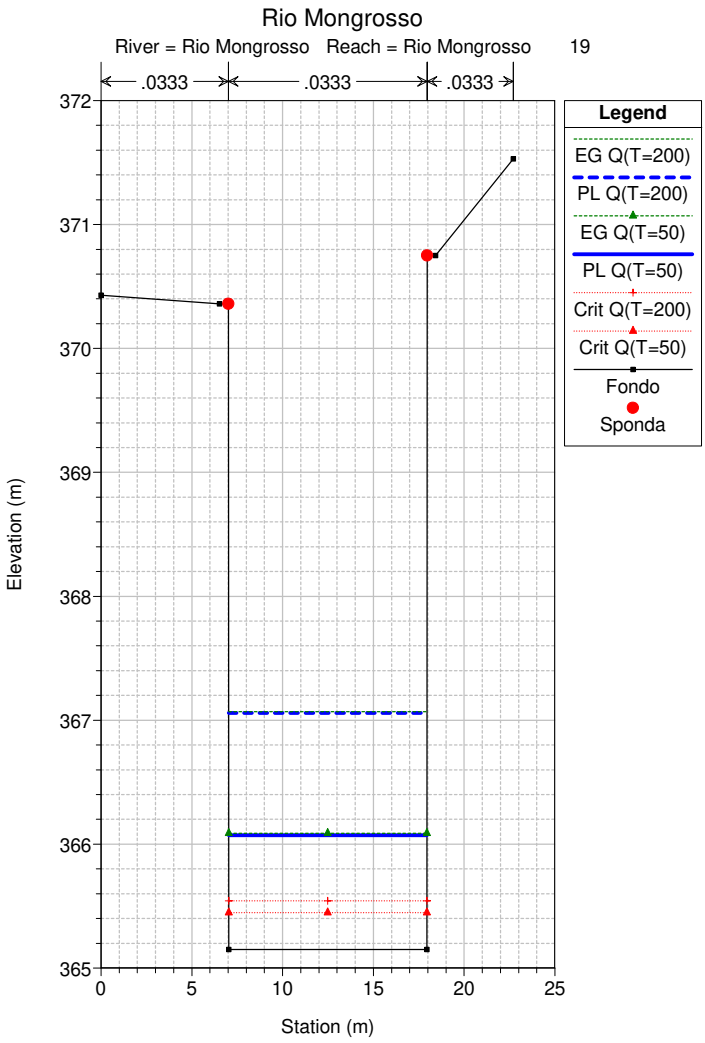
Fondo
Sponda
Elevation (m)
Station (m)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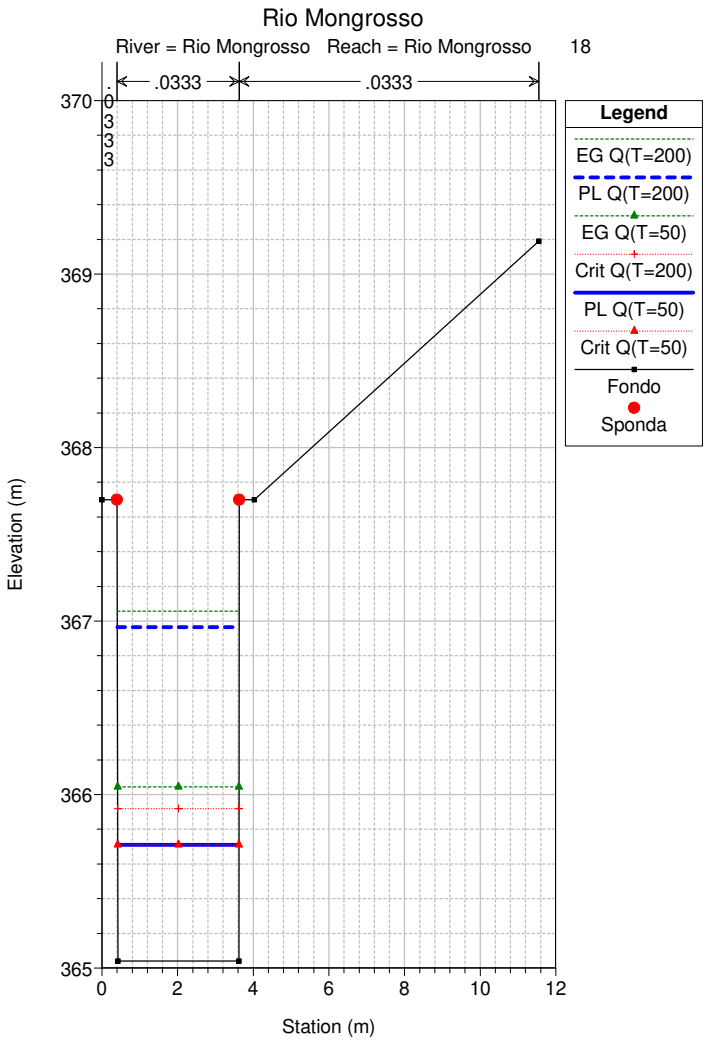
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)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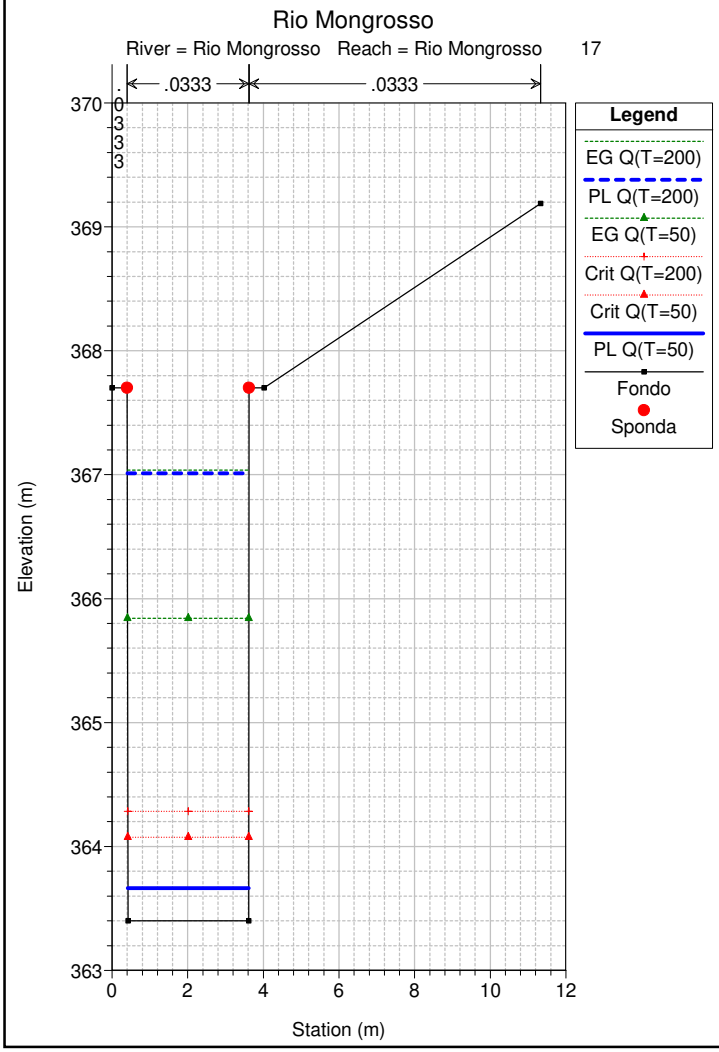
Fondo
Sponda
Elevation (m)
Station (m)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Legend
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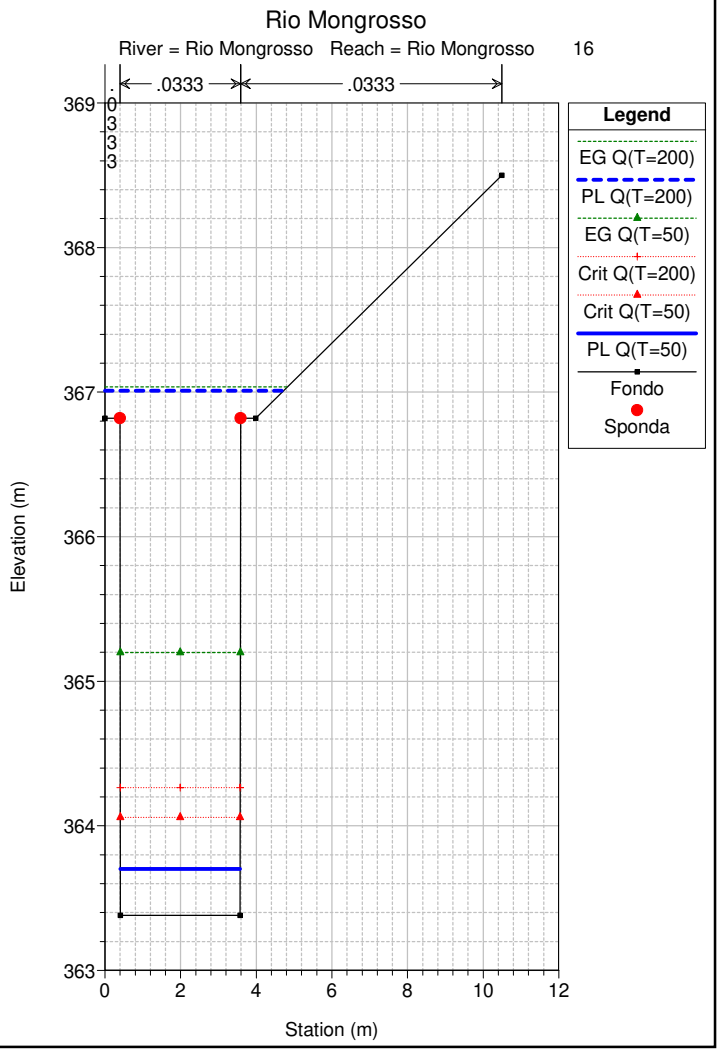
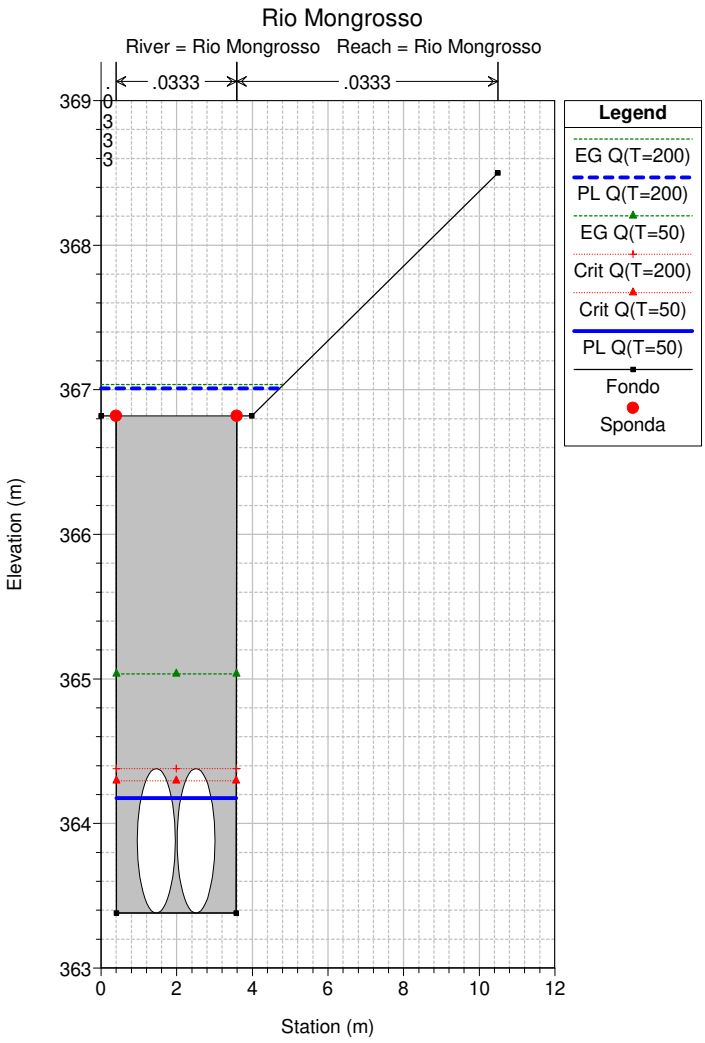
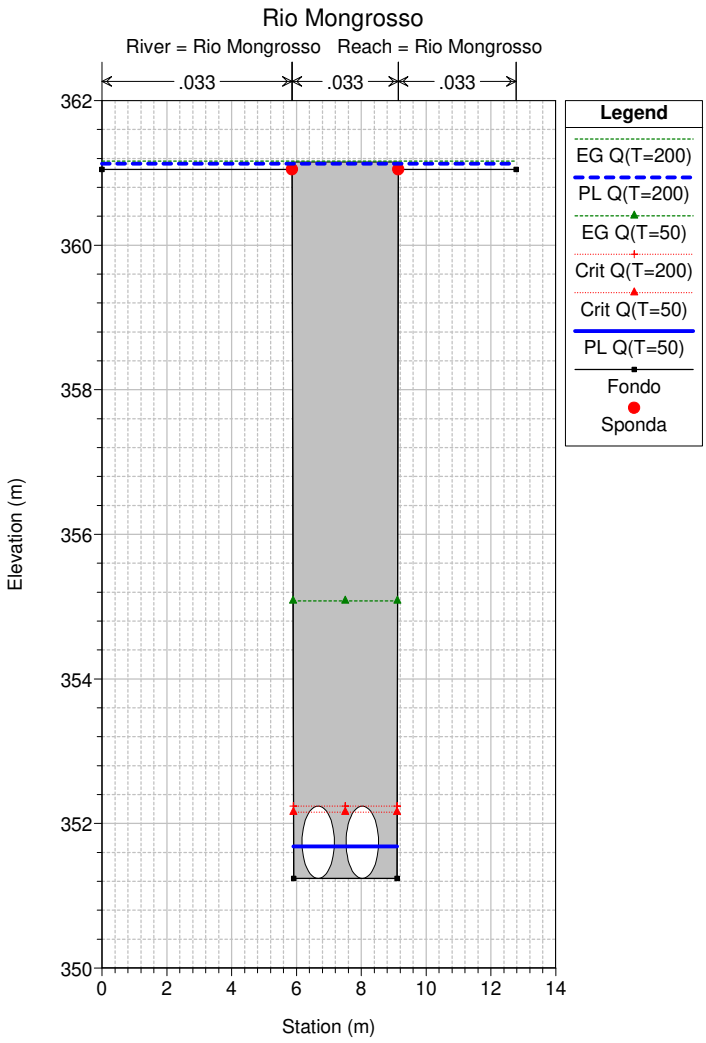
Crit Q(T=200)
Crit Q(T=50)
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 16
.0333
.0333
Legend
EG Q(T=200)
PL Q(T=200)
EG Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso
.0333
.0333
Legend
EG Q(T=200)
PL Q(T=200)
EG Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso
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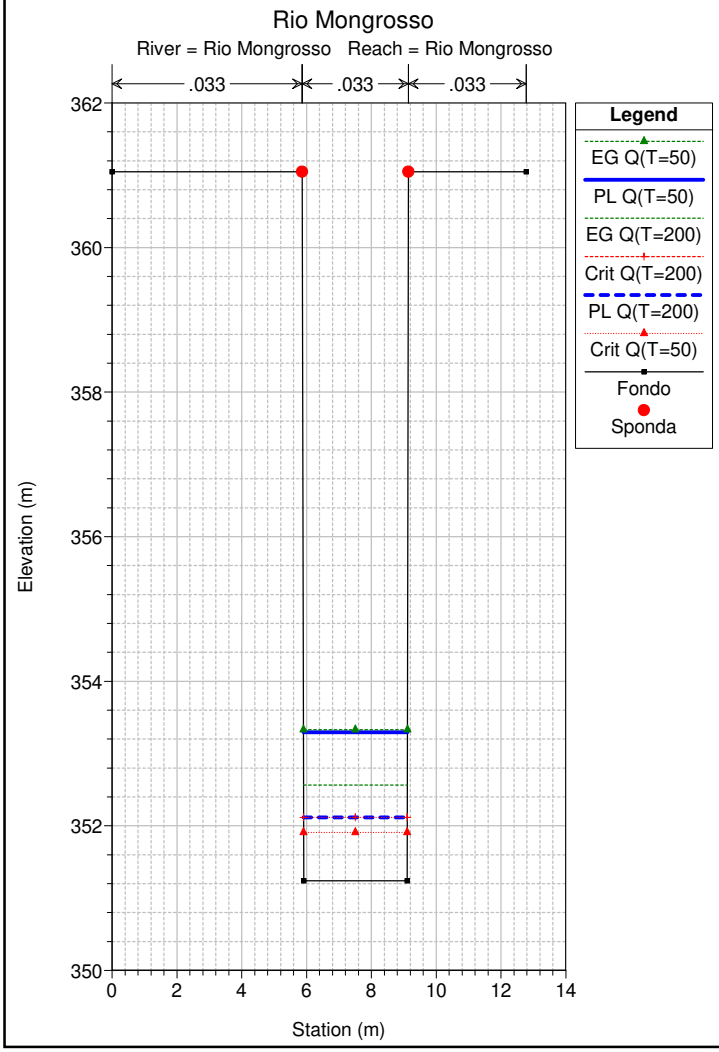
Legend
EG Q(T=200)
PL Q(T=200)
EG Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso
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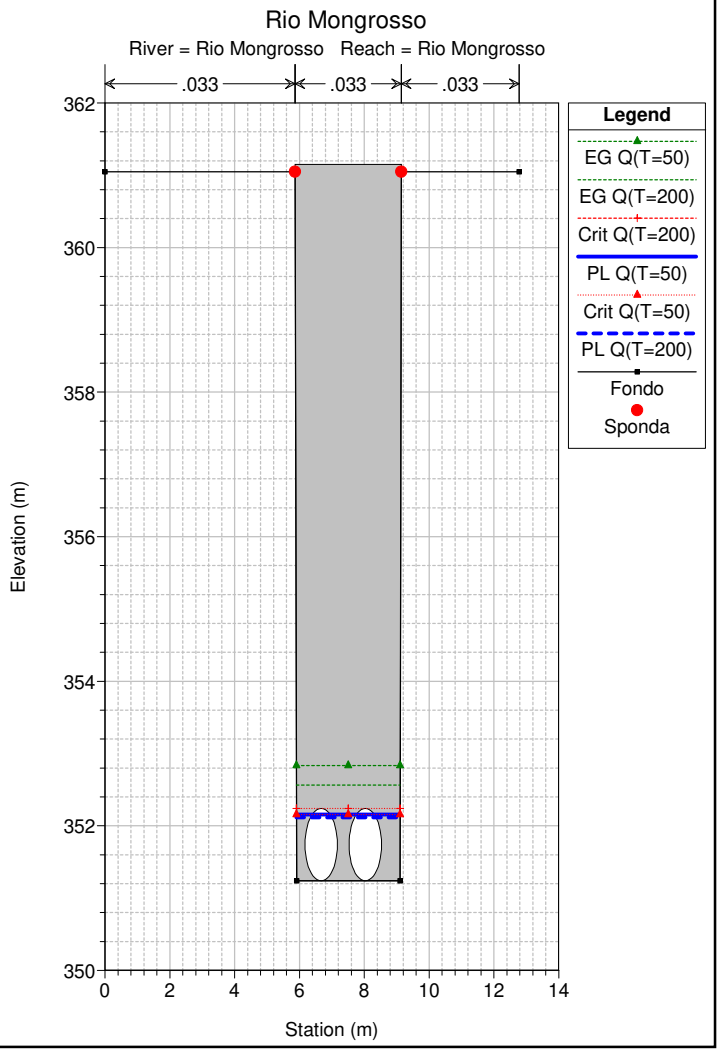
Legend
EG Q(T=50)
PL Q(T=50)
EG Q(T=200)
Crit Q(T=200)
PL Q(T=200)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso
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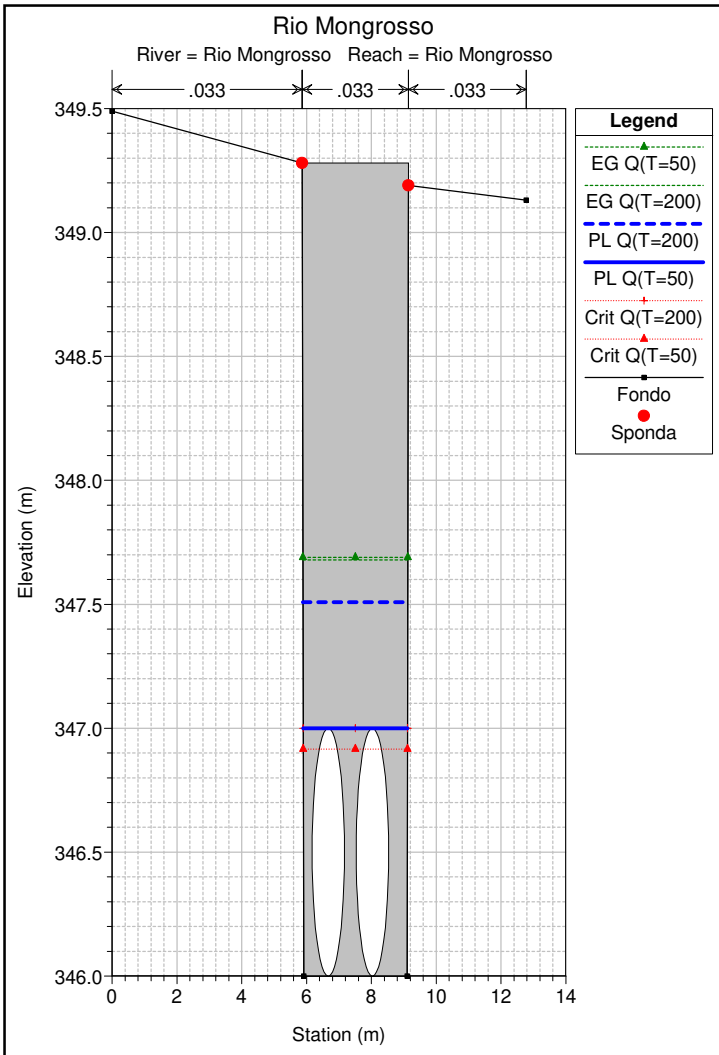
Legend
EG Q(T=50)
EG Q(T=200)
Crit Q(T=200)
PL Q(T=50)
Crit Q(T=50)
PL Q(T=200)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso
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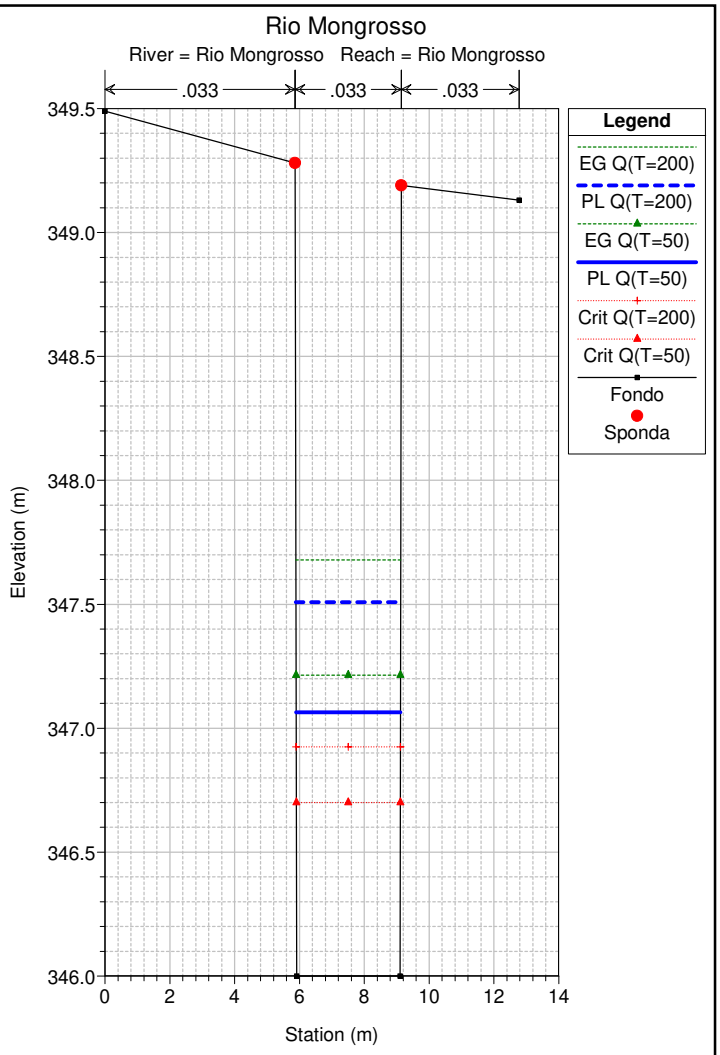
.033
.033
Legend
EG Q(T=50)
EG Q(T=200)
PL Q(T=200)
PL Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso
.033
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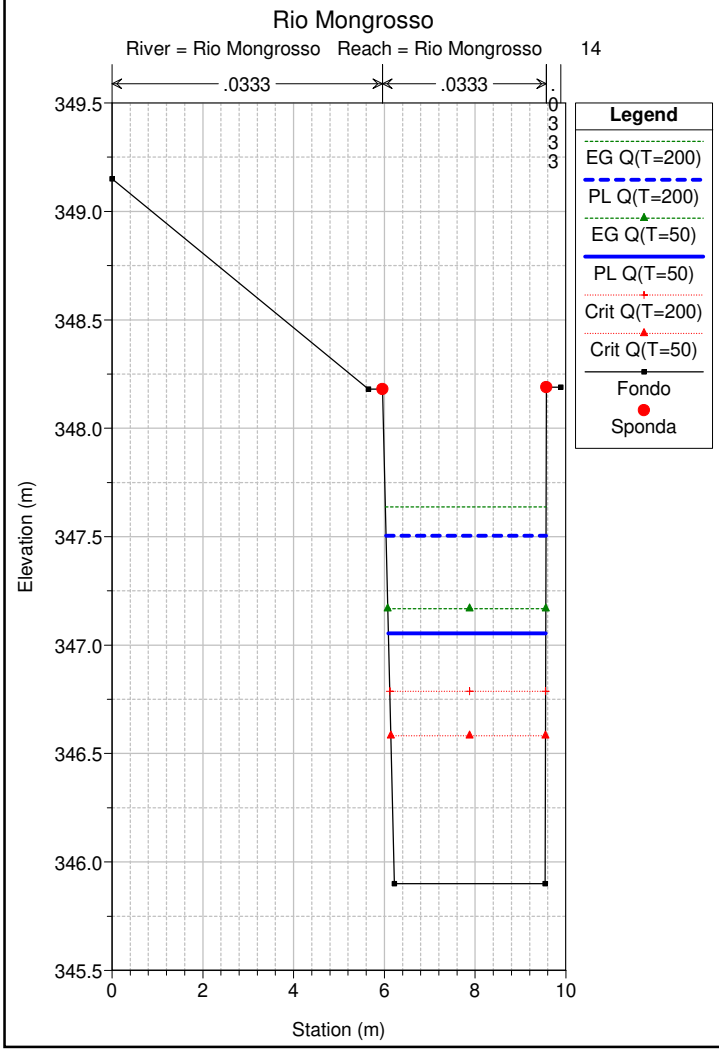
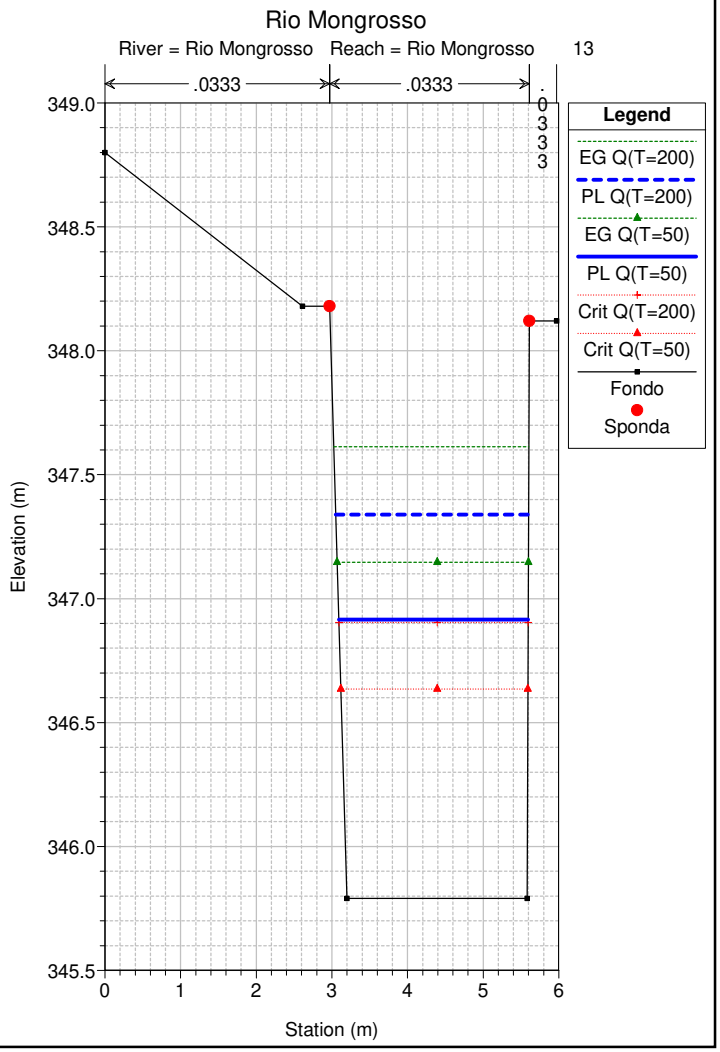
.033
Legend
EG Q(T=200)
PL Q(T=200)
EG Q(T=50)
PL Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 14
.0333
.0333
.0333
Legend
EG Q(T=200)
PL Q(T=200)
EG Q(T=50)
PL Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 13
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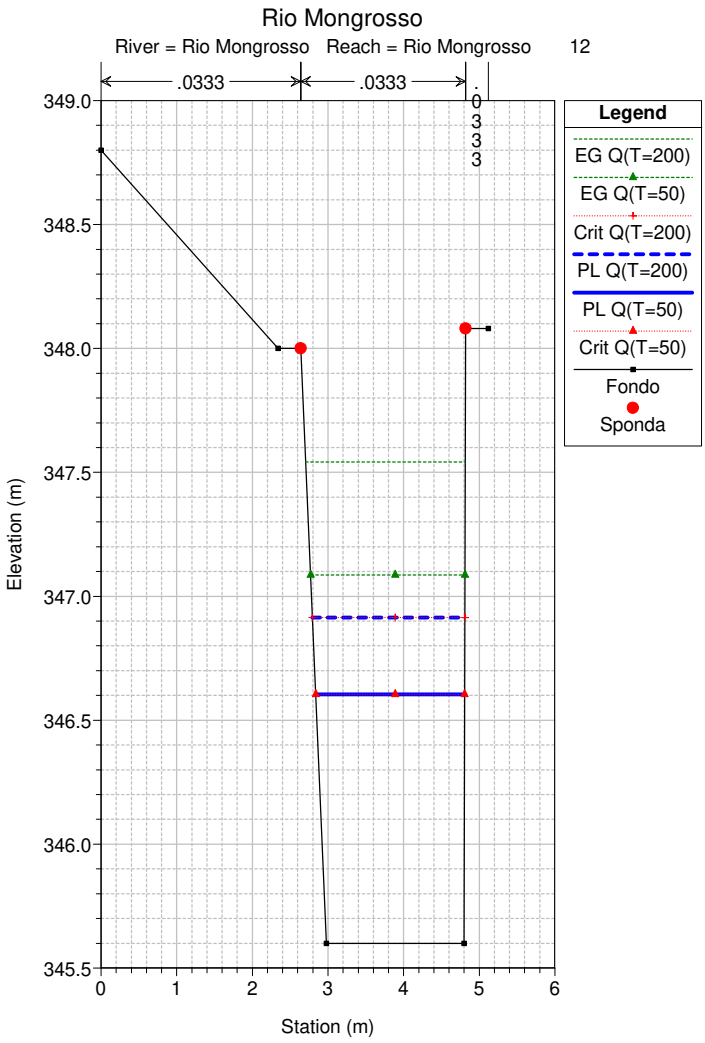
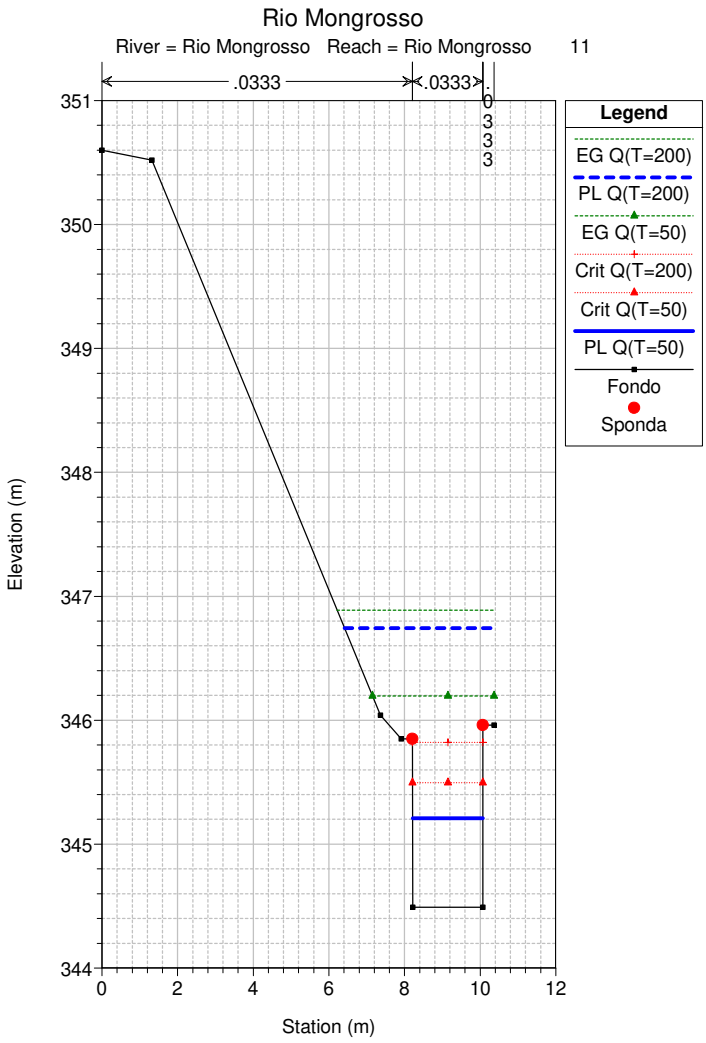
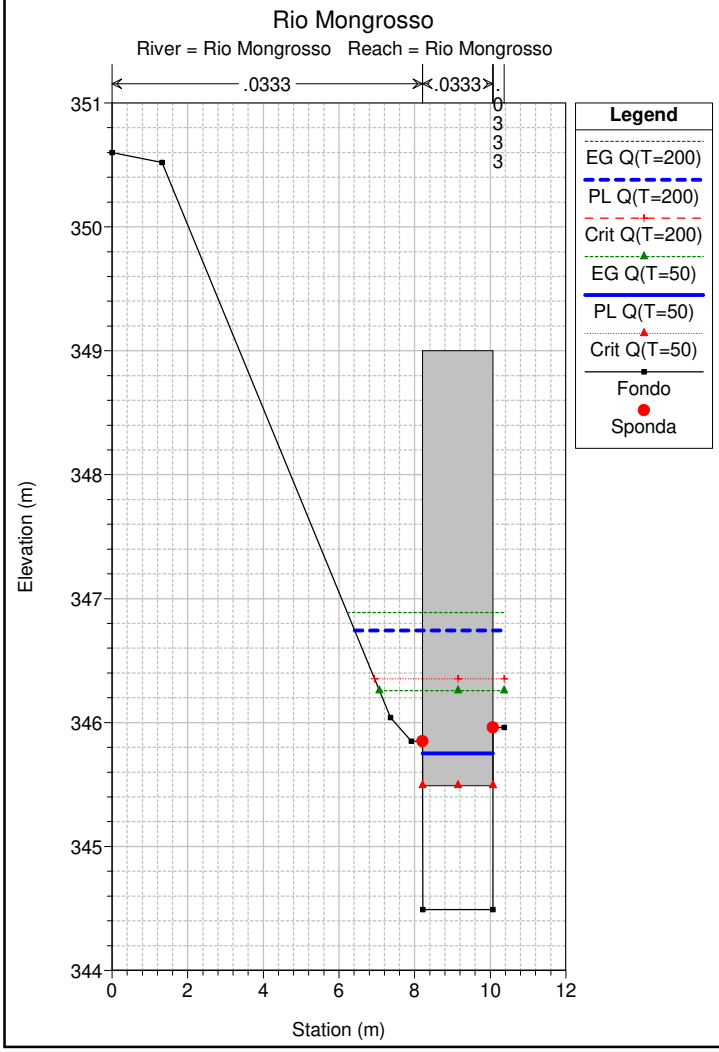
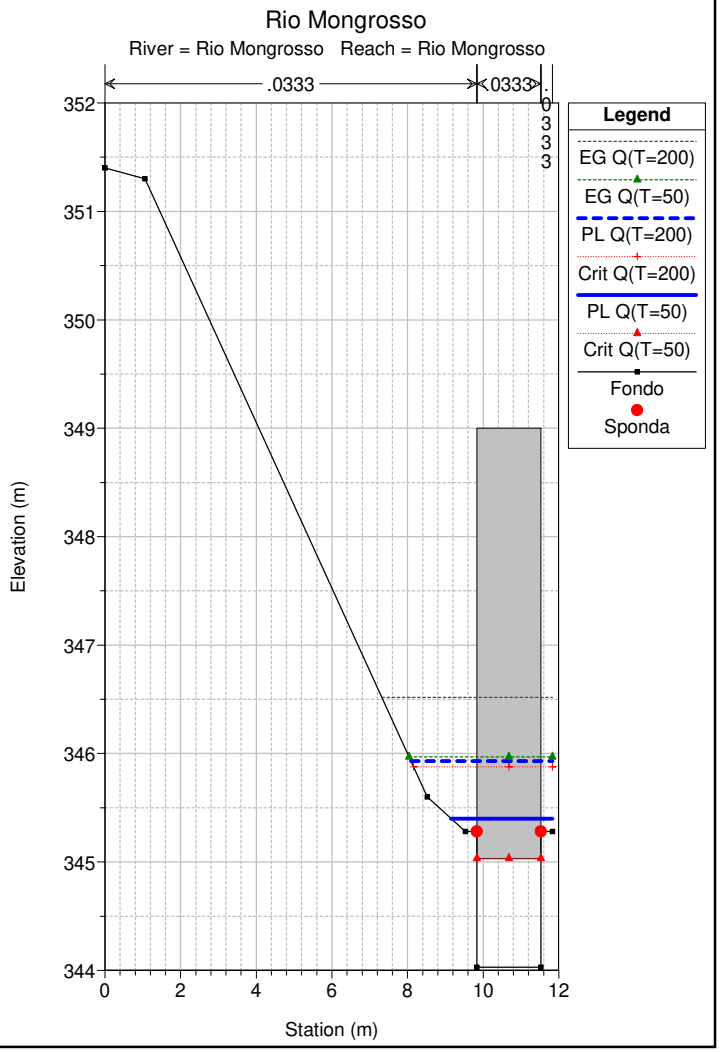
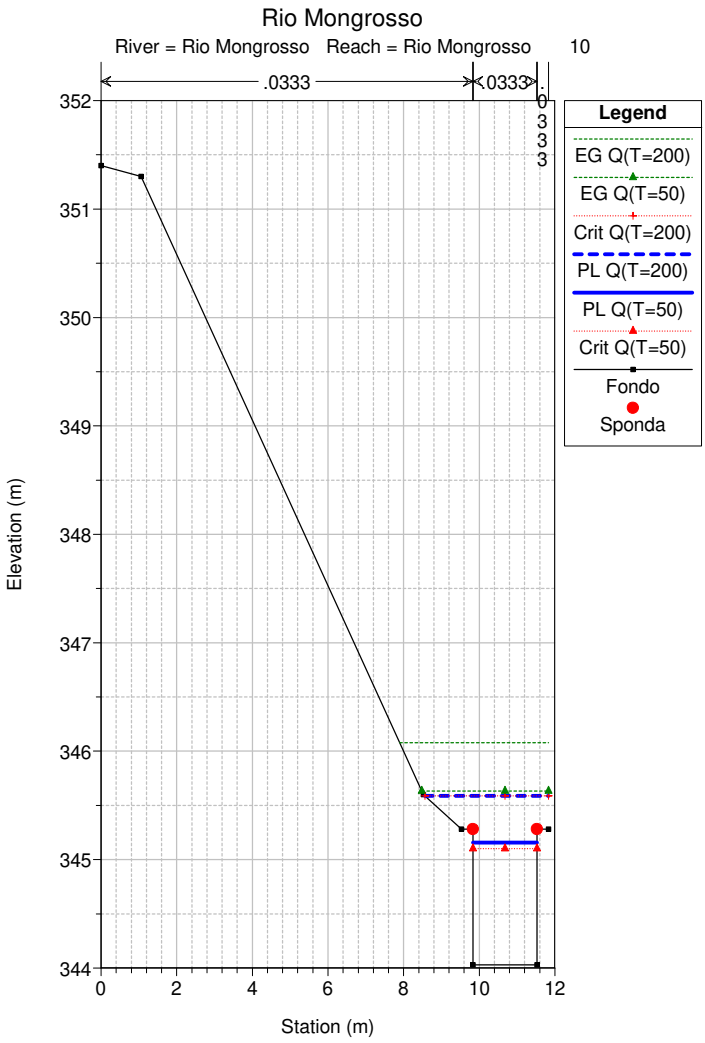
.0333
.0333
Legend
EG Q(T=200)
PL Q(T=200)
EG Q(T=50)
PL Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)

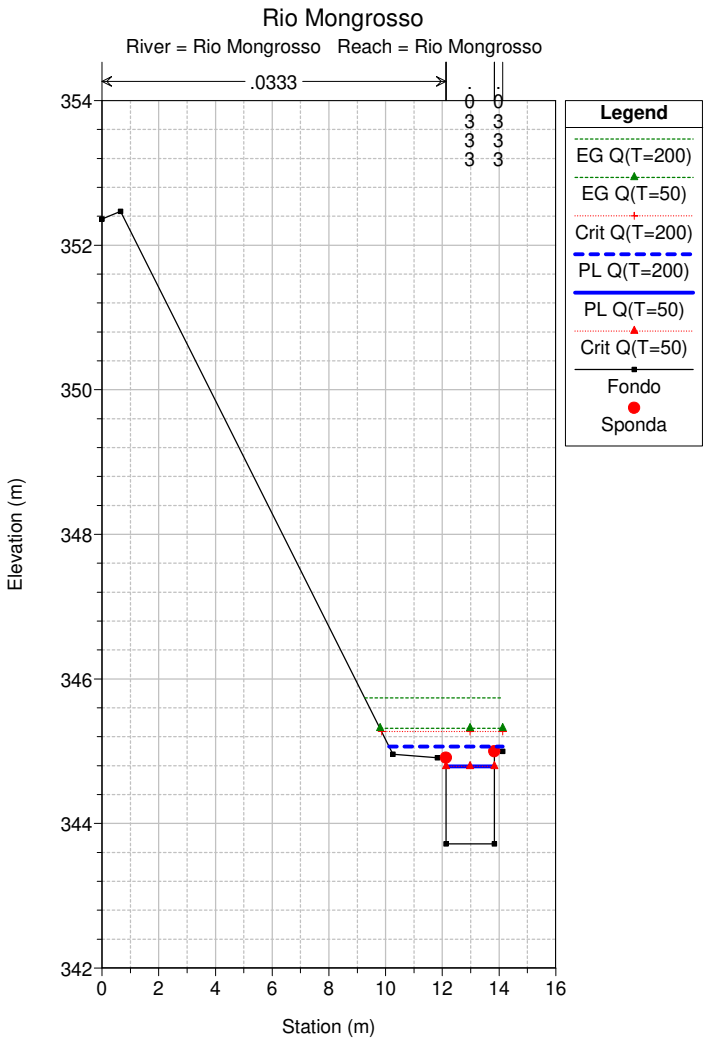

Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 12
.0333
.0333
.0333
Legend
EG Q(T=200)
EG Q(T=50)
Crit Q(T=200)
PL Q(T=200)
PL Q(T=50)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)

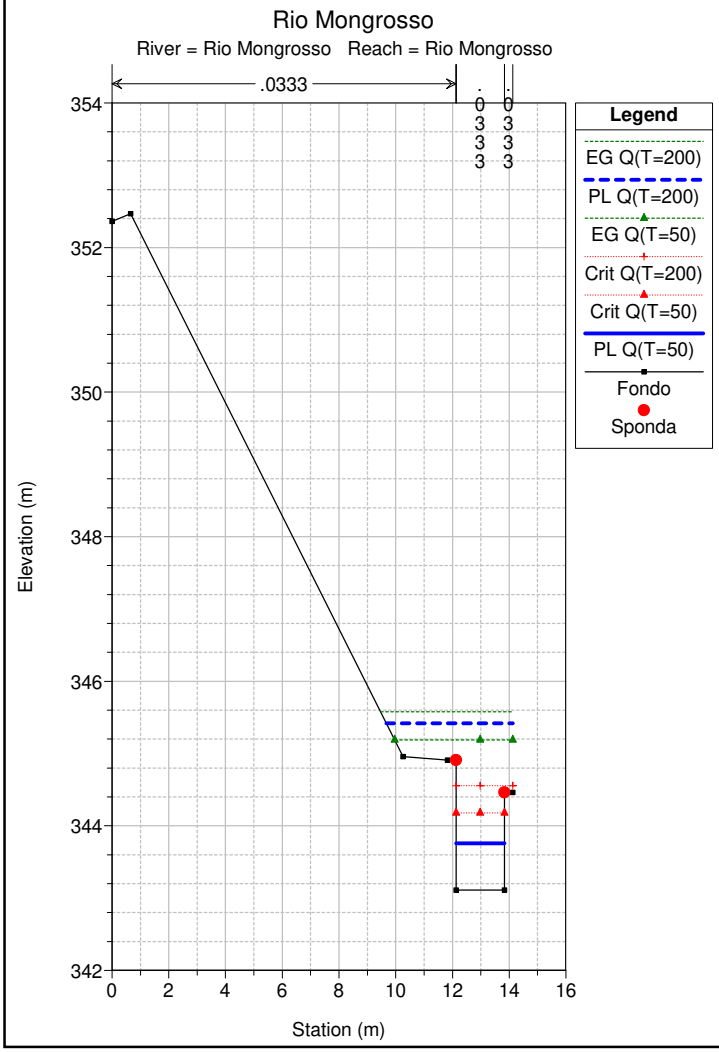

Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 11
.0333
.0333
.0333
Legend
EG Q(T=200)
PL Q(T=200)
EG Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)

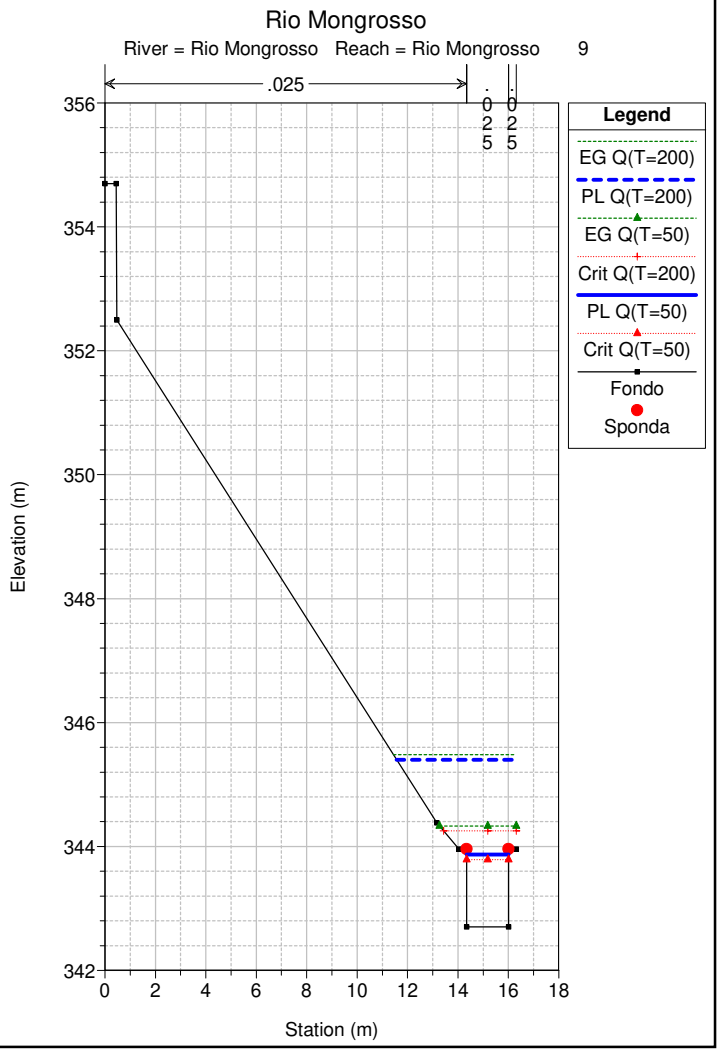

Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso
.0333
.0333
.0333
Legend
EG Q(T=200)
PL Q(T=200)
Crit Q(T=200)
EG Q(T=50)
PL Q(T=50)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)

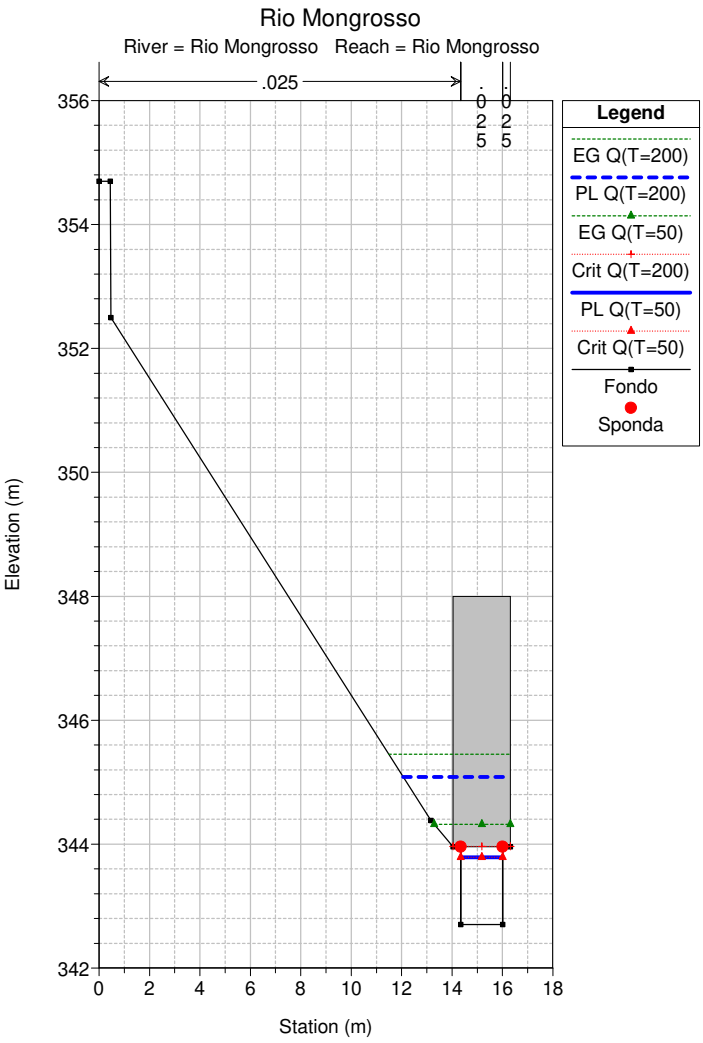

Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso
.0333
.0333
.0333
Legend
EG Q(T=200)
EG Q(T=50)
PL Q(T=200)
Crit Q(T=200)
PL Q(T=50)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)

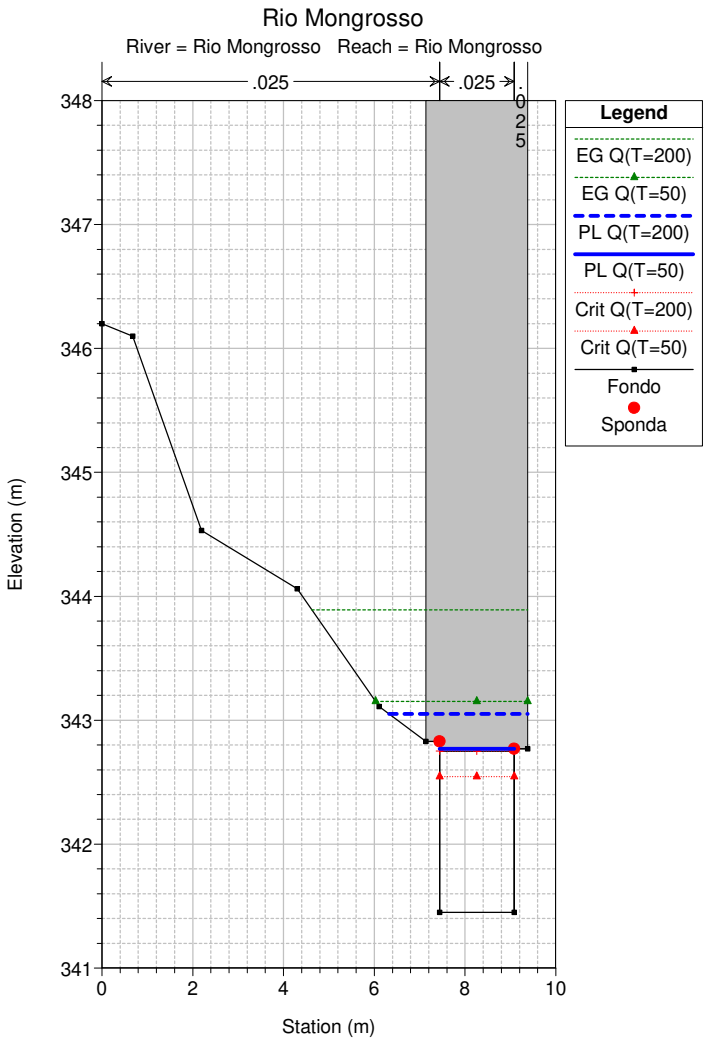

Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 10
.0333
.0333
.0333
Legend
EG Q(T=200)
EG Q(T=50)
Crit Q(T=200)
PL Q(T=200)
PL Q(T=50)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)

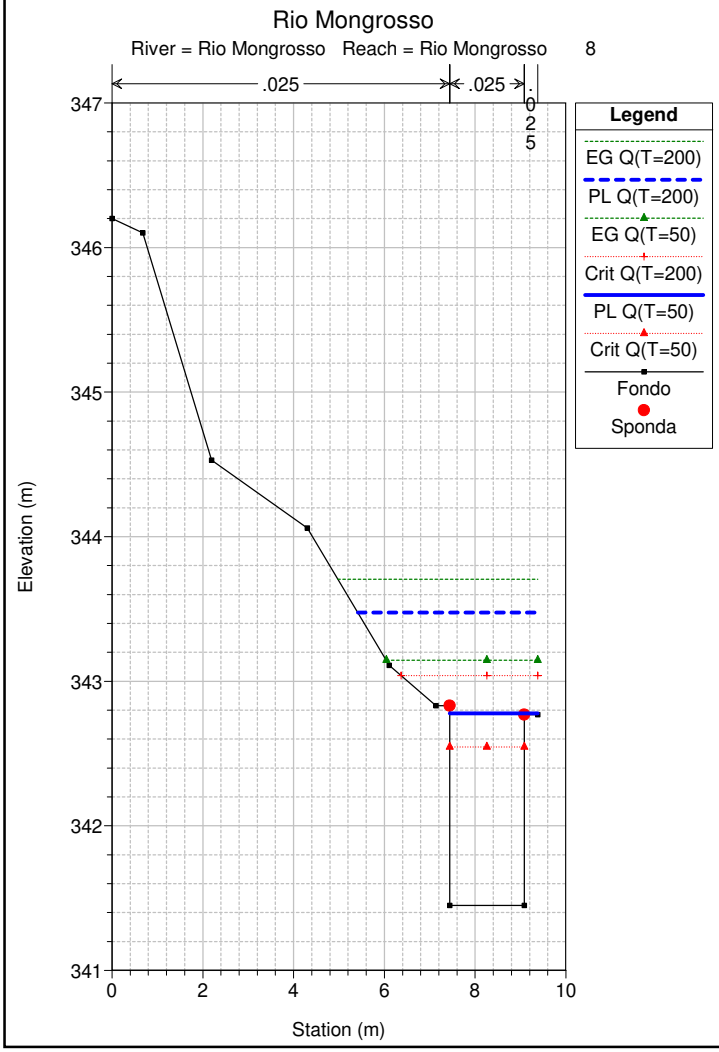

Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso
.0333
.0333
Legend
EG Q(T=200)
EG Q(T=50)
Crit Q(T=200)
PL Q(T=200)
PL Q(T=50)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)

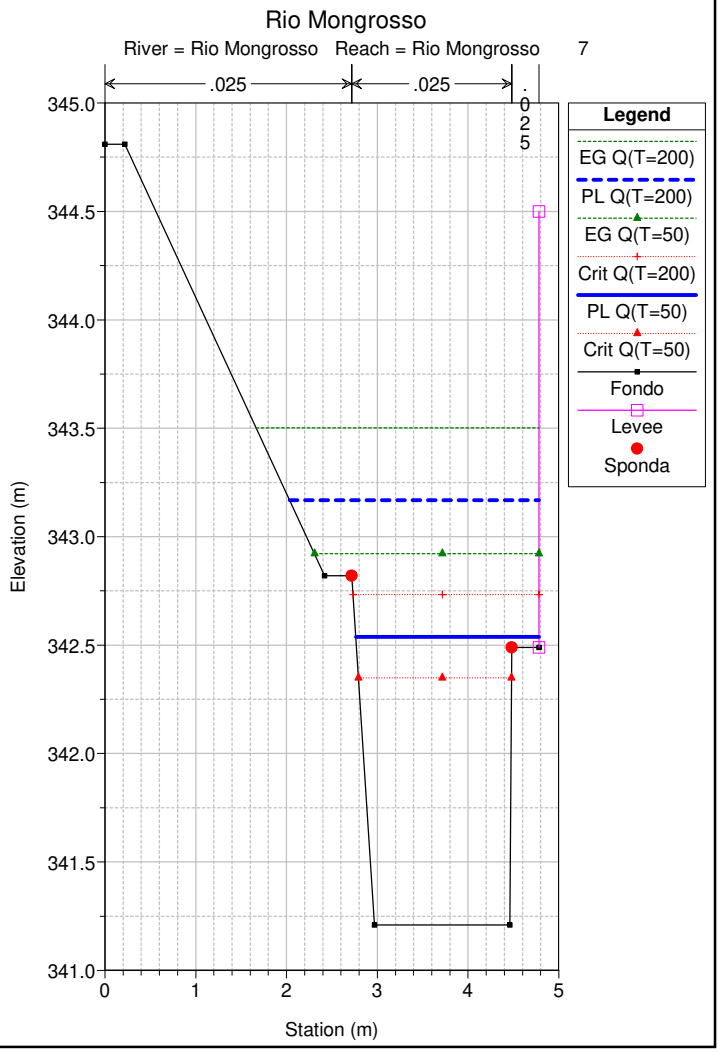

Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso
.0333
.0333
Legend
EG Q(T=200)
PL Q(T=200)
EG Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)

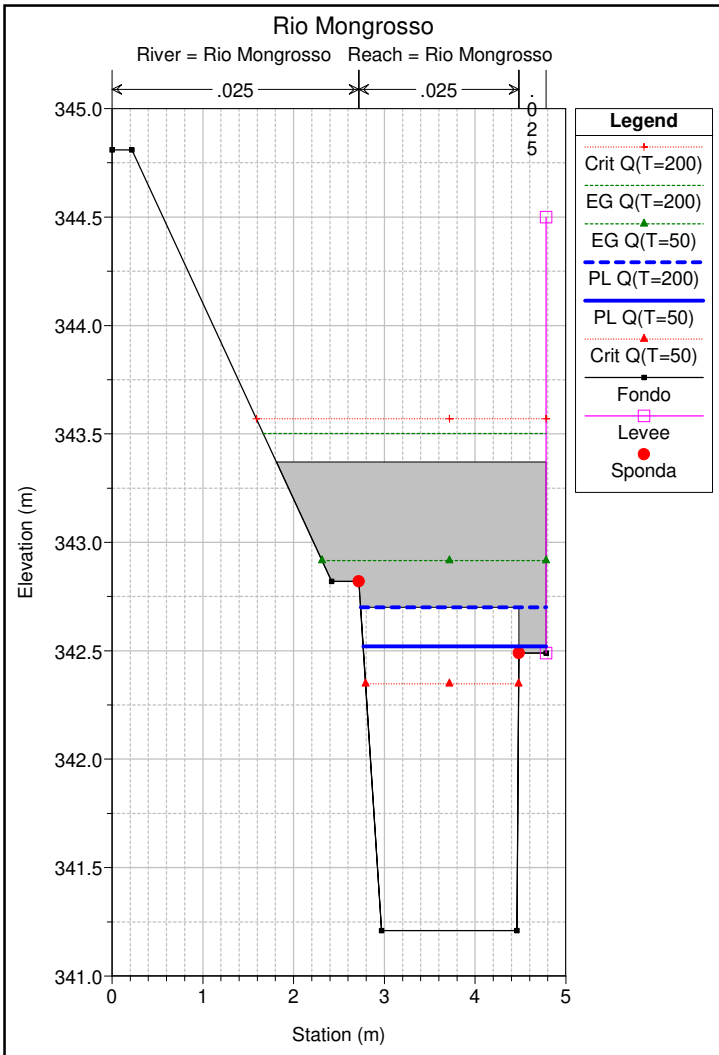

Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 9
.025
.0333
Legend
EG Q(T=200)
PL Q(T=200)
EG Q(T=50)
Crit Q(T=200)
PL Q(T=50)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)

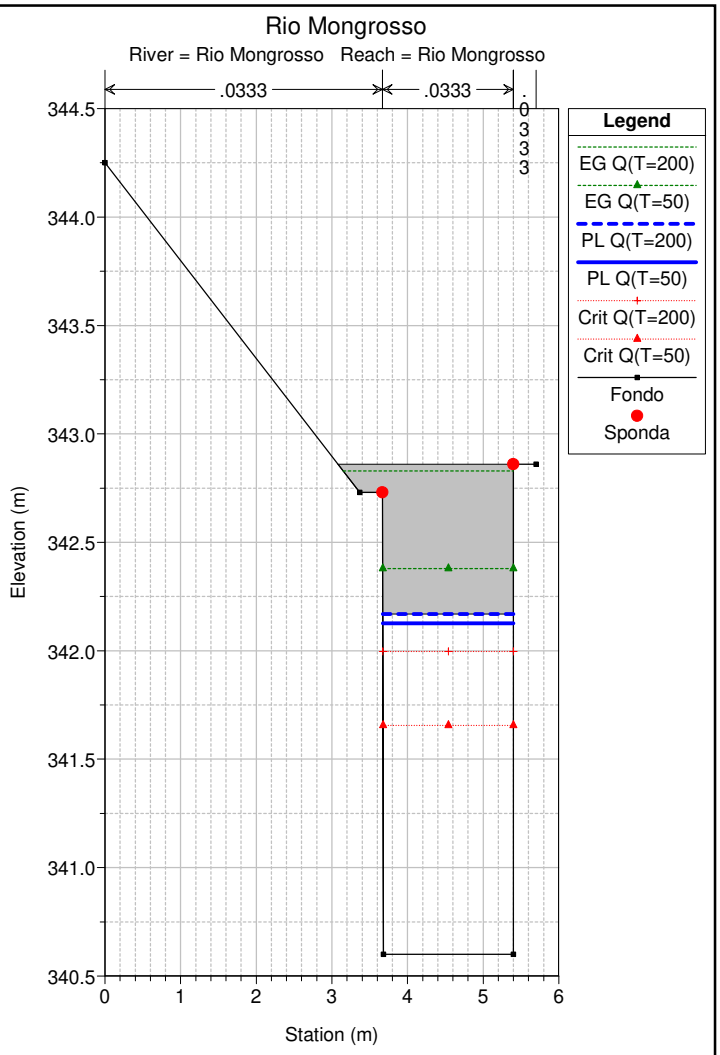

Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso
.025
.025
.025
Legend
EG Q(T=200)
PL Q(T=200)
EG Q(T=50)
Crit Q(T=200)
PL Q(T=50)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)

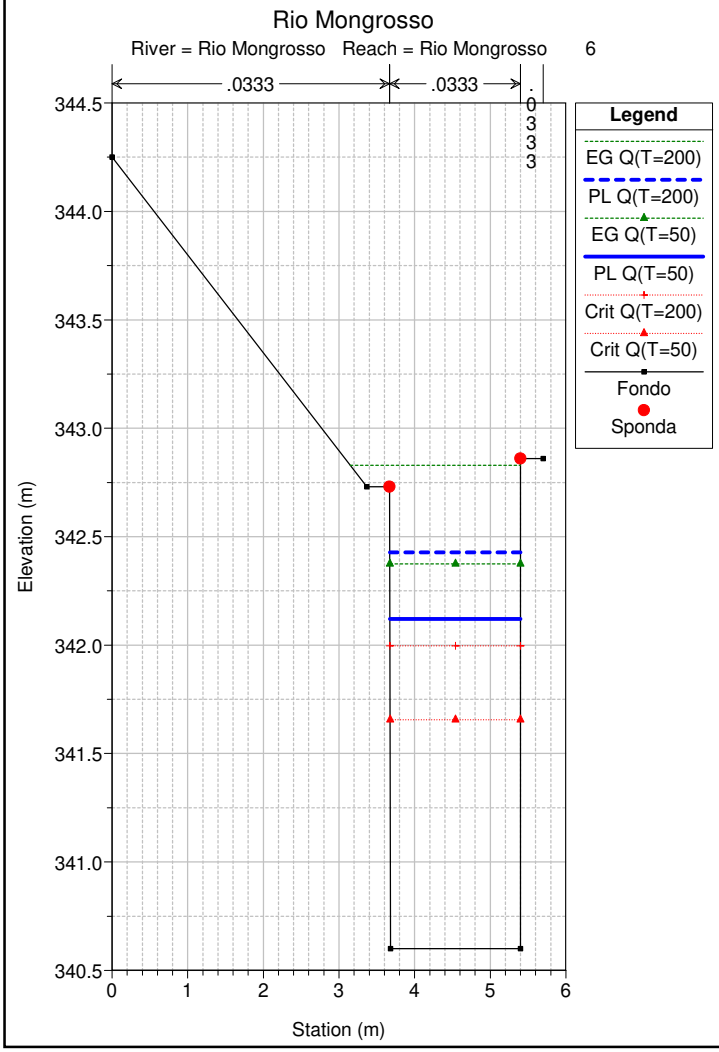

Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso
.025
.025
.025
Legend
EG Q(T=200)
EG Q(T=50)
PL Q(T=200)
PL Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 8
.025
.025
.025
Legend
EG Q(T=200)
PL Q(T=200)
EG Q(T=50)
Crit Q(T=200)
PL Q(T=50)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 7
.025
.025
.025
Legend
EG Q(T=200)
PL Q(T=200)
EG Q(T=50)
Crit Q(T=200)
PL Q(T=50)
Crit Q(T=50)
Fondo
Levee
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso
.025
.025
.025
Legend
Crit Q(T=200)
EG Q(T=200)
EG Q(T=50)
PL Q(T=200)
PL Q(T=50)
Crit Q(T=50)
Fondo
Levee
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso
.0333
.0333
.0333
Legend
EG Q(T=200)
EG Q(T=50)
PL Q(T=200)
PL Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 6
.0333
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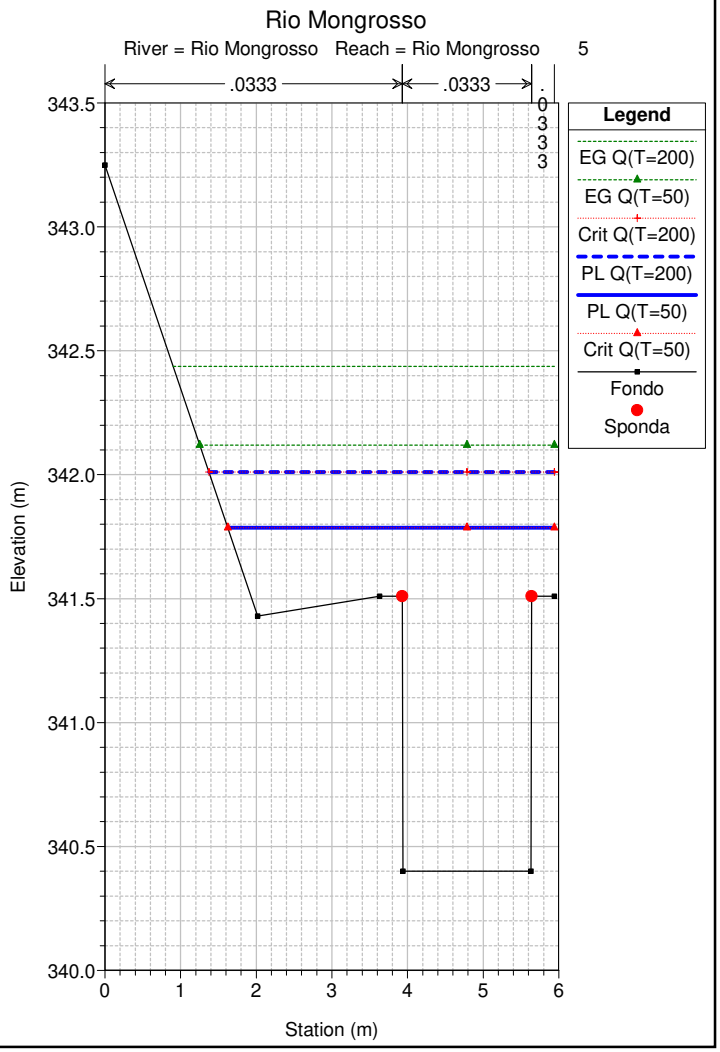
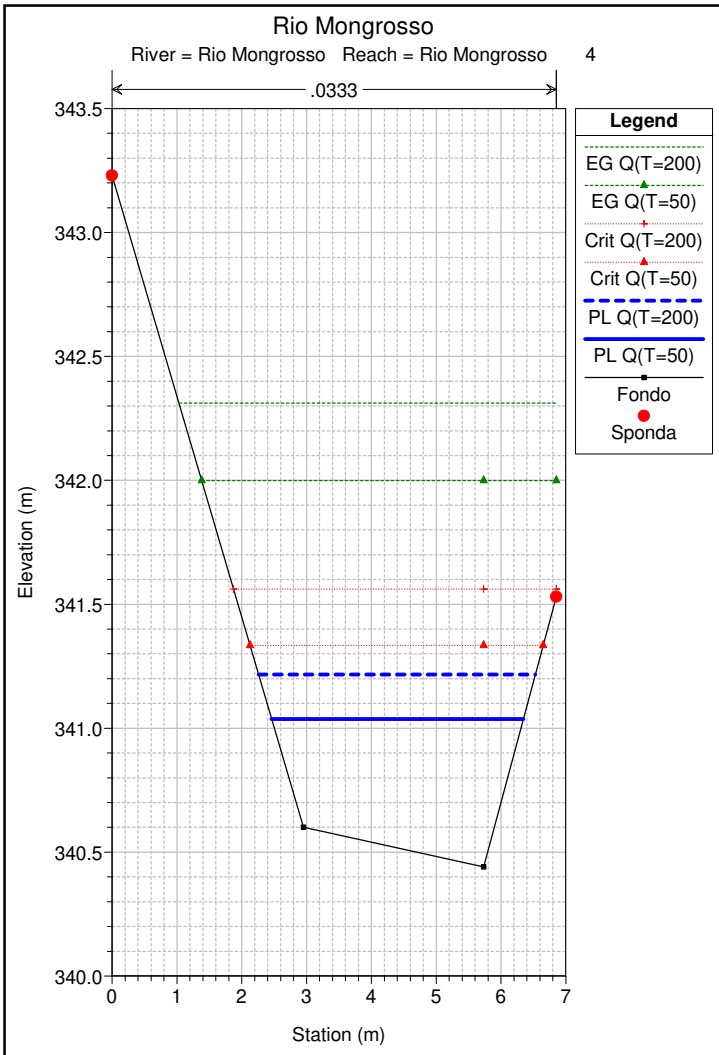
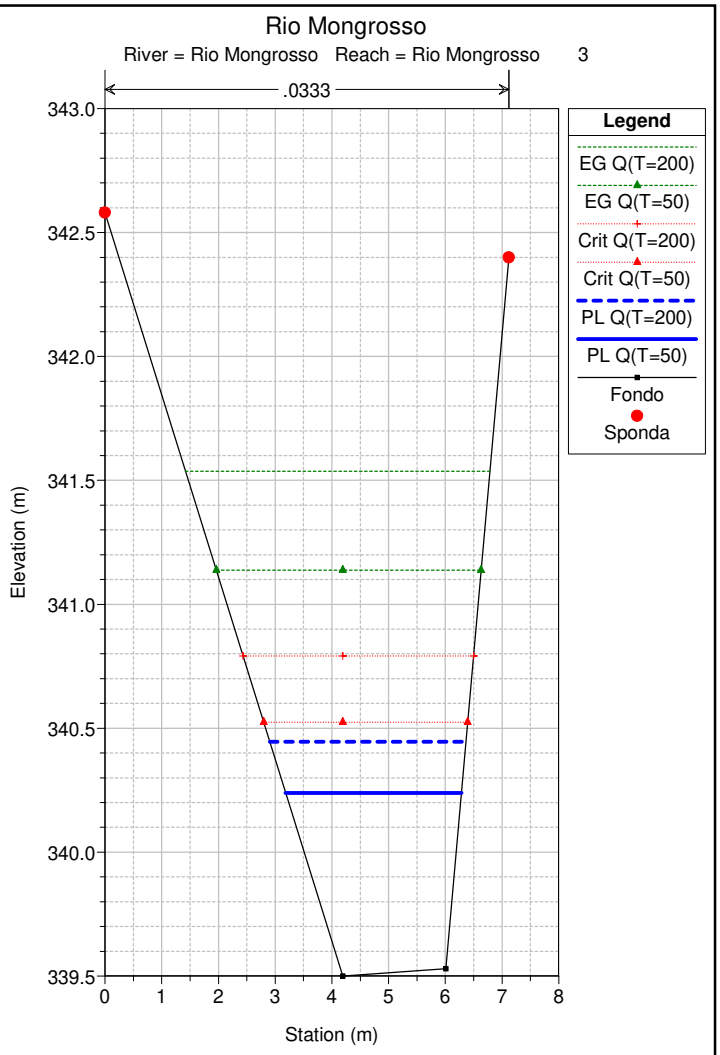
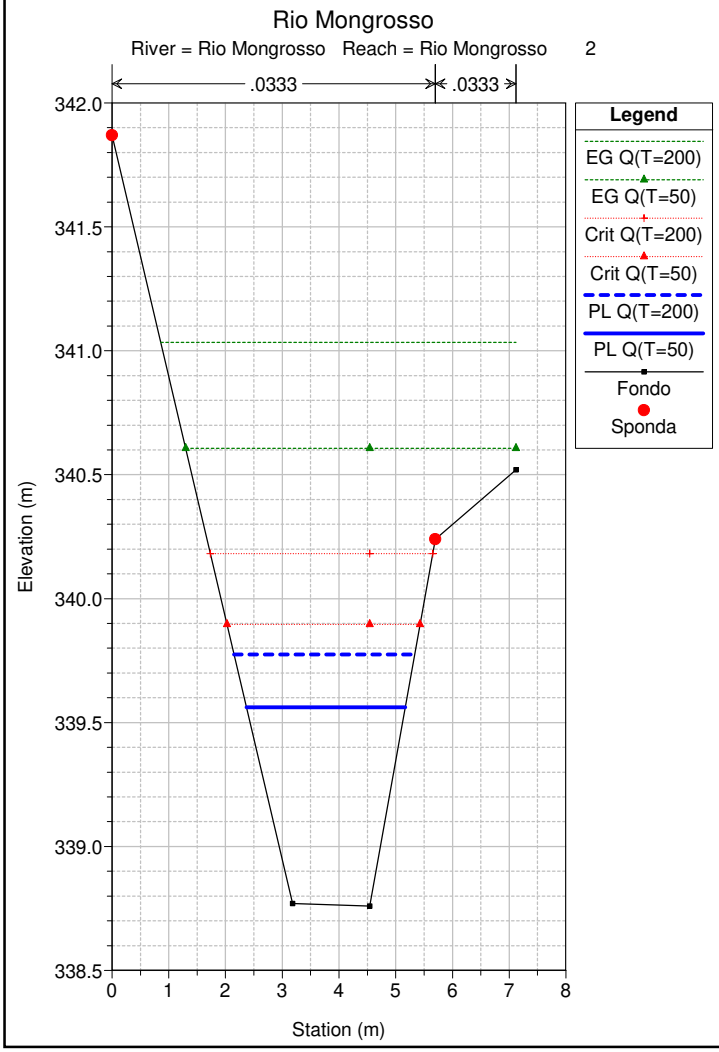
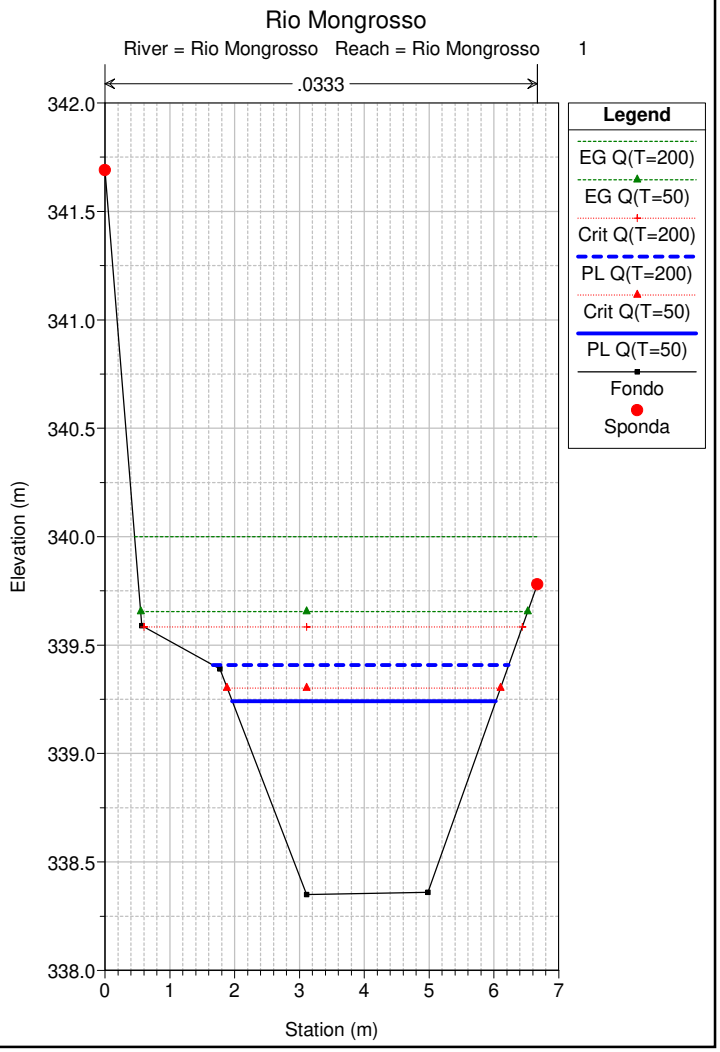
.0333
Legend
EG Q(T=200)
PL Q(T=200)
EG Q(T=50)
PL Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)

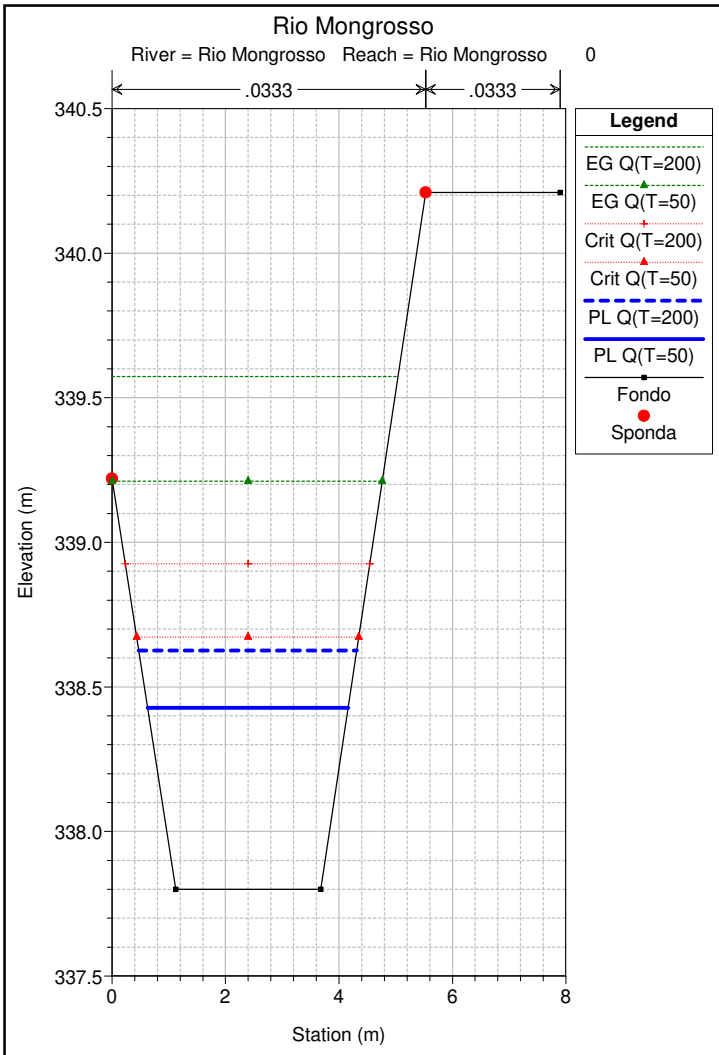

Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 5
.0333
.0333
.0333
Legend
EG Q(T=200)
EG Q(T=50)
Crit Q(T=200)
PL Q(T=200)
PL Q(T=50)
Crit Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 4
.0333
Legend
EG Q(T=200)
EG Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
PL Q(T=200)
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 3
.0333
Legend
EG Q(T=200)
EG Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
PL Q(T=200)
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 2
.0333
.0333
Legend
EG Q(T=200)
EG Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
PL Q(T=200)
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 1
.0333
Legend
EG Q(T=200)
EG Q(T=50)
Crit Q(T=200)
PL Q(T=200)
Crit Q(T=50)
PL Q(T=50)
Fondo
Sponda
Elevation (m)
Station (m)


Rio Mongrosso
River = Rio Mongrosso Reach = Rio Mongrosso 0
.0333
.0333
Legend
EG Q(T=200)
EG Q(T=50)
Crit Q(T=200)
Crit Q(T=50)
PL Q(T=200)
PL Q(T=50)
Fondo
Sponda
Elevation (m)
340.5
340.0
339.5
339.0
338.5
338.0
337.5
0
2
4
6
8
Station (m)

HEC-RAS Plan: SF River: Rio Mongrosso Reach: Rio Mongrosso

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Rio Mongrosso	34	Q(T=200)	6.00	401.50	402.50	405.00	2.50	403.15	0.65	402.50	402.81	0.015532	2.46	2.44	3.92	0.99
Rio Mongrosso	34	Q(T=50)	3.90	401.50	402.32	405.00	2.68	403.15	0.83	402.32	402.57	0.016290	2.21	1.77	3.50	0.99
Rio Mongrosso	33	Q(T=200)	6.00	398.50	399.06	405.00	5.94	403.00	3.94	399.49	401.25	0.277918	6.56	0.92	3.13	3.87
Rio Mongrosso	33	Q(T=50)	3.90	398.50	398.97	405.00	6.03	403.00	4.03	399.32	400.79	0.305689	5.97	0.65	2.78	3.93
Rio Mongrosso	32	Q(T=200)	6.00	396.39	397.10	398.27	1.17	397.55	0.45	397.68	399.36	0.081819	6.65	0.90	1.64	2.57
Rio Mongrosso	32	Q(T=50)	3.90	396.39	396.90	398.27	1.37	397.55	0.65	397.38	398.76	0.104724	6.03	0.65	1.55	2.75
Rio Mongrosso	31.5		Bridge													
Rio Mongrosso	31	Q(T=200)	6.00	396.00	396.76	397.70	0.94	397.60	0.84	397.30	398.65	0.059406	6.08	0.99	2.20	2.23
Rio Mongrosso	31	Q(T=50)	3.90	396.00	396.56	397.70	1.14	397.60	1.04	396.97	398.03	0.069947	5.38	0.73	1.96	2.30
Rio Mongrosso	30	Q(T=200)	6.00	391.05	391.23	394.24	3.01	393.76	2.53	391.75	396.36	1.260881	10.03	0.60	3.32	7.55
Rio Mongrosso	30	Q(T=50)	3.90	391.05	391.18	394.24	3.06	393.76	2.58	391.57	395.32	1.509371	9.01	0.43	3.32	7.97
Rio Mongrosso	29	Q(T=200)	6.00	390.24	390.63	392.40	1.77	392.40	1.77	391.20	393.72	0.371028	7.79	0.77	2.00	4.01
Rio Mongrosso	29	Q(T=50)	3.90	390.24	390.54	392.40	1.86	392.40	1.86	390.96	392.69	0.329992	6.49	0.60	2.00	3.78
Rio Mongrosso	28.5		Bridge													
Rio Mongrosso	28.1	Q(T=200)	6.00	388.85	389.39	391.28	1.89	391.70	2.31	389.83	390.96	0.106244	5.54	1.08	2.67	2.40
Rio Mongrosso	28.1	Q(T=50)	3.90	388.85	389.23	391.28	2.05	391.70	2.47	389.58	390.59	0.137541	5.17	0.75	2.47	2.69
Rio Mongrosso	28	Q(T=200)	6.00	387.55	387.88	391.28	3.40	391.70	3.82	388.41	390.87	0.386720	7.65	0.78	2.50	4.36
Rio Mongrosso	28	Q(T=50)	3.90	387.55	387.78	391.28	3.50	391.70	3.92	388.20	390.50	0.527579	7.30	0.53	2.42	4.96
Rio Mongrosso	27	Q(T=200)	6.00	387.20	387.58	388.03	0.45	388.00	0.42	388.04	389.89	0.286639	6.72	0.89	2.86	3.84
Rio Mongrosso	27	Q(T=50)	3.90	387.20	387.50	388.03	0.53	388.00	0.50	387.86	389.33	0.299717	5.99	0.65	2.61	3.84
Rio Mongrosso	26	Q(T=200)	6.00	387.17	387.62	388.77	1.15	387.49	-0.13	387.95	389.46	0.209256	6.14	1.06	4.88	3.45
Rio Mongrosso	26	Q(T=50)	3.90	387.17	387.55	388.77	1.22	387.49	-0.06	387.82	388.90	0.190255	5.16	0.78	3.87	3.20
Rio Mongrosso	25	Q(T=200)	6.00	385.12	385.58	386.00	0.42	386.20	0.62	386.06	388.29	0.328953	7.29	0.82	2.77	4.27
Rio Mongrosso	25	Q(T=50)	3.90	385.12	385.49	386.00	0.51	386.20	0.71	385.89	387.76	0.351251	6.67	0.58	2.37	4.29
Rio Mongrosso	24	Q(T=200)	6.00	380.86	381.24	382.00	0.76	382.41	1.17	381.70	384.48	0.492217	7.97	0.75	3.10	5.17
Rio Mongrosso	24	Q(T=50)	3.90	380.86	381.17	382.00	0.83	382.41	1.24	381.55	383.79	0.503241	7.18	0.54	2.67	5.08
Rio Mongrosso	23	Q(T=200)	6.00	376.78	377.26	378.20	0.94	378.30	1.04	377.77	380.25	0.343869	7.66	0.78	2.47	4.34
Rio Mongrosso	23	Q(T=50)	3.90	376.78	377.17	378.20	1.03	378.30	1.13	377.59	379.53	0.340958	6.81	0.57	2.15	4.22
Rio Mongrosso	22	Q(T=200)	6.00	372.25	372.71	373.46	0.75	374.50	1.79	373.28	376.58	0.466171	8.71	0.69	2.19	4.97
Rio Mongrosso	22	Q(T=50)	3.90	372.25	372.61	373.46	0.85	374.50	1.89	373.09	375.80	0.490516	7.91	0.49	1.91	4.97
Rio Mongrosso	21	Q(T=200)	8.30	368.63	368.95	370.61	1.66	371.95	3.00	369.46	372.41	0.456988	8.25	1.01	3.69	5.04
Rio Mongrosso	21	Q(T=50)	5.50	368.63	368.88	370.61	1.73	371.95	3.07	369.29	371.51	0.456175	7.18	0.77	3.48	4.89
Rio Mongrosso	20	Q(T=200)	8.30	367.64	367.84	370.36	2.52	370.75	2.91	368.08	369.30	0.480094	5.35	1.55	11.78	4.70
Rio Mongrosso	20	Q(T=50)	5.50	367.64	367.82	370.36	2.54	370.75	2.93	367.99	368.76	0.384771	4.30	1.28	11.41	4.10

HEC-RAS Plan: SF River: Rio Mongrosso Reach: Rio Mongrosso (Continued)

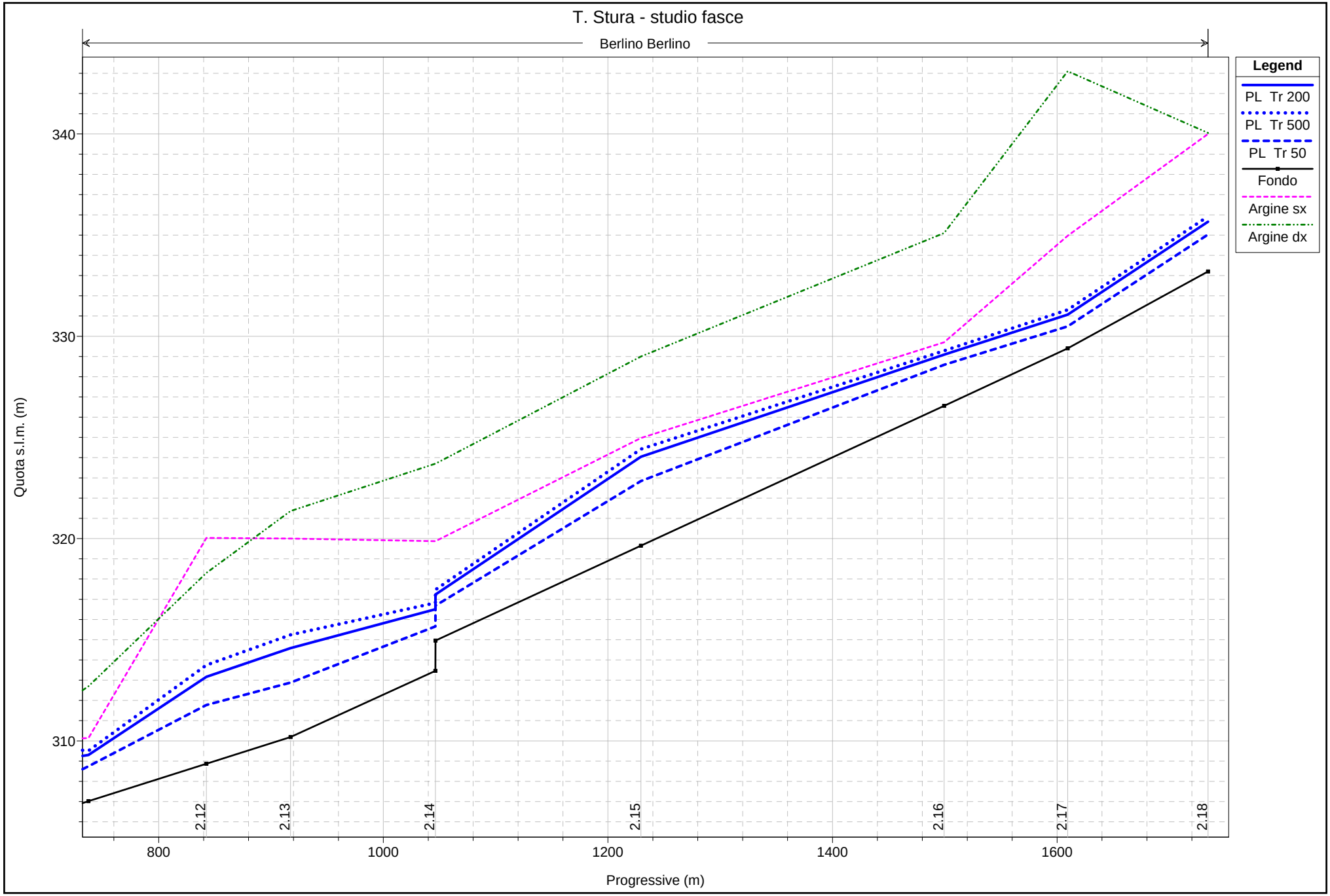
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Rio Mongrosso	19	Q(T=200)	8.30	365.15	367.06	370.36	3.30	370.75	3.69	365.54	367.07	0.000111	0.40	20.83	10.92	0.09
Rio Mongrosso	19	Q(T=50)	5.50	365.15	366.07	370.36	4.29	370.75	4.68	365.45	366.09	0.000458	0.55	10.04	10.91	0.18
Rio Mongrosso	18	Q(T=200)	8.30	365.04	366.97	367.70	0.73	367.70	0.73	365.92	367.06	0.002387	1.34	6.18	3.22	0.31
Rio Mongrosso	18	Q(T=50)	5.50	365.04	365.71	367.70	1.99	367.70	1.99	365.71	366.04	0.019853	2.56	2.14	3.21	1.00
Rio Mongrosso	17	Q(T=200)	8.30	363.40	367.01	367.70	0.69	367.70	0.69	364.28	367.04	0.000498	0.72	11.56	3.22	0.12
Rio Mongrosso	17	Q(T=50)	5.50	363.40	363.66	367.70	4.04	367.70	4.04	364.07	365.84	0.343710	6.53	0.84	3.19	4.06
Rio Mongrosso	16	Q(T=200)	8.30	363.38	367.01	366.82	-0.19	366.82	-0.19	364.26	367.04	0.000475	0.72	11.75	4.73	0.12
Rio Mongrosso	16	Q(T=50)	5.50	363.38	363.70	366.82	3.12	366.82	3.12	364.06	365.20	0.189914	5.42	1.01	3.16	3.06
Rio Mongrosso	15.5		Culvert													
Rio Mongrosso	15.2	Q(T=200)	8.30	351.24	352.12	361.05	8.93	361.05	8.93	352.12	352.56	0.020425	2.96	2.80	3.20	1.01
Rio Mongrosso	15.2	Q(T=50)	5.50	351.24	353.30	361.05	7.75	361.05	7.75	351.91	353.33	0.000876	0.84	6.57	3.21	0.19
Rio Mongrosso	15.1		Culvert													
Rio Mongrosso	15	Q(T=200)	8.85	346.00	347.51	349.28	1.77	349.19	1.68	346.92	347.68	0.005059	1.83	4.84	3.23	0.48
Rio Mongrosso	15	Q(T=50)	5.85	346.00	347.06	349.28	2.22	349.19	2.13	346.70	347.21	0.005795	1.72	3.41	3.22	0.53
Rio Mongrosso	14	Q(T=200)	8.85	345.90	347.50	348.18	0.68	348.19	0.69	346.79	347.64	0.003648	1.61	5.49	3.52	0.41
Rio Mongrosso	14	Q(T=50)	5.85	345.90	347.06	348.18	1.13	348.19	1.14	346.58	347.17	0.004021	1.49	3.92	3.47	0.45
Rio Mongrosso	13	Q(T=200)	8.85	345.79	347.34	348.18	0.84	348.12	0.78	346.90	347.61	0.009680	2.32	3.82	2.55	0.60
Rio Mongrosso	13	Q(T=50)	5.85	345.79	346.92	348.18	1.26	348.12	1.20	346.64	347.15	0.010113	2.13	2.75	2.50	0.65
Rio Mongrosso	12	Q(T=200)	8.85	345.60	346.91	348.00	1.09	348.08	1.17	346.91	347.54	0.029309	3.51	2.52	2.02	1.00
Rio Mongrosso	12	Q(T=50)	5.85	345.60	346.60	348.00	1.40	348.08	1.48	346.60	347.09	0.026786	3.08	1.90	1.97	1.00
Rio Mongrosso	11	Q(T=200)	8.85	344.49	346.74	345.85	-0.89	345.96	-0.78	345.82	346.89	0.004070	1.78	5.46	3.96	0.38
Rio Mongrosso	11	Q(T=50)	5.85	344.49	345.21	345.85	0.64	345.96	0.75	345.50	346.20	0.071906	4.40	1.33	1.86	1.66
Rio Mongrosso	10.5		Bridge													
Rio Mongrosso	10	Q(T=200)	8.85	344.03	345.59	345.28	-0.31	345.28	-0.31	345.59	346.08	0.020728	3.17	2.98	3.27	0.81
Rio Mongrosso	10	Q(T=50)	5.85	344.03	345.16	345.28	0.12	345.28	0.12	345.10	345.63	0.027127	3.05	1.92	1.70	0.92
Rio Mongrosso	9.5	Q(T=200)	8.85	343.72	345.07	344.91	-0.16	345.00	-0.07	345.27	345.74	0.033896	3.70	2.57	4.01	1.02
Rio Mongrosso	9.5	Q(T=50)	5.85	343.72	344.79	344.91	0.12	345.00	0.21	344.79	345.32	0.031128	3.22	1.82	1.70	0.99
Rio Mongrosso	9.4	Q(T=200)	8.85	343.11	345.42	344.91	-0.51	344.46	-0.96	344.56	345.58	0.005222	1.88	5.26	4.46	0.40
Rio Mongrosso	9.4	Q(T=50)	5.85	343.11	343.76	344.91	1.15	344.46	0.70	344.18	345.19	0.118002	5.30	1.10	1.70	2.10
Rio Mongrosso	9	Q(T=200)	8.85	342.70	345.40	343.96	-1.44	343.96	-1.44	344.25	345.48	0.001062	1.37	7.26	4.74	0.27
Rio Mongrosso	9	Q(T=50)	5.85	342.70	343.87	343.96	0.09	343.96	0.09	343.79	344.33	0.014725	3.00	1.95	1.67	0.89
Rio Mongrosso	8.5		Bridge													
Rio Mongrosso	8	Q(T=200)	8.85	341.45	343.48	342.83	-0.65	342.77	-0.71	343.04	343.71	0.004483	2.24	4.38	3.97	0.50
Rio Mongrosso	8	Q(T=50)	5.85	341.45	342.78	342.83	0.05	342.77	-0.01	342.55	343.15	0.011147	2.69	2.18	1.94	0.75

HEC-RAS Plan: SF River: Rio Mongrosso Reach: Rio Mongrosso (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Rio Mongrosso	7	Q(T=200)	8.85	341.21	343.17	342.82	-0.35	342.49	-0.68	342.73	343.50	0.006412	2.61	3.61	2.74	0.61
Rio Mongrosso	7	Q(T=50)	5.85	341.21	342.54	342.82	0.28	342.49	-0.05	342.35	342.92	0.011325	2.74	2.14	2.02	0.79
Rio Mongrosso	6.5		Bridge													
Rio Mongrosso	6	Q(T=200)	8.85	340.60	342.43	342.73	0.30	342.86	0.43	342.00	342.83	0.017842	2.81	3.15	1.73	0.66
Rio Mongrosso	6	Q(T=50)	5.85	340.60	342.12	342.73	0.61	342.86	0.74	341.66	342.38	0.012250	2.23	2.62	1.73	0.58
Rio Mongrosso	5	Q(T=200)	11.40	340.40	342.01	341.51	-0.50	341.51	-0.50	342.01	342.44	0.017063	3.09	4.10	4.56	0.78
Rio Mongrosso	5	Q(T=50)	7.50	340.40	341.79	341.51	-0.28	341.51	-0.28	341.79	342.12	0.015901	2.70	3.10	4.31	0.73
Rio Mongrosso	4	Q(T=200)	11.40	340.44	341.22	343.23	2.01	341.53	0.31	341.56	342.31	0.058632	4.64	2.46	4.27	1.95
Rio Mongrosso	4	Q(T=50)	7.50	340.44	341.04	343.23	2.19	341.53	0.49	341.33	342.00	0.070703	4.34	1.73	3.88	2.08
Rio Mongrosso	3	Q(T=200)	11.40	339.50	340.45	342.58	2.13	342.40	1.95	340.79	341.54	0.051519	4.63	2.46	3.46	1.75
Rio Mongrosso	3	Q(T=50)	7.50	339.50	340.24	342.58	2.34	342.40	2.16	340.52	341.14	0.054051	4.20	1.79	3.10	1.77
Rio Mongrosso	2	Q(T=200)	11.40	338.76	339.77	341.87	2.10	340.24	0.47	340.18	341.03	0.059344	4.97	2.29	3.19	1.87
Rio Mongrosso	2	Q(T=50)	7.50	338.76	339.56	341.87	2.31	340.24	0.68	339.90	340.61	0.061962	4.53	1.66	2.80	1.88
Rio Mongrosso	1	Q(T=200)	11.40	338.35	339.41	341.69	2.28	339.78	0.37	339.58	340.00	0.023876	3.41	3.34	4.57	1.27
Rio Mongrosso	1	Q(T=50)	7.50	338.35	339.24	341.69	2.45	339.78	0.54	339.30	339.66	0.019459	2.85	2.63	4.07	1.13
Rio Mongrosso	0	Q(T=200)	11.40	337.80	338.63	339.22	0.59	340.21	1.58	338.93	339.57	0.043864	4.31	2.64	3.84	1.66
Rio Mongrosso	0	Q(T=50)	7.50	337.80	338.43	339.22	0.79	340.21	1.78	338.67	339.21	0.047934	3.92	1.91	3.54	1.70

Torrente Berlino

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati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Legend
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PL Tr 500
PL Tr 50
Fondo
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Argine dx
Quota s.l.m. (m)
340
330
320
310
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2.15
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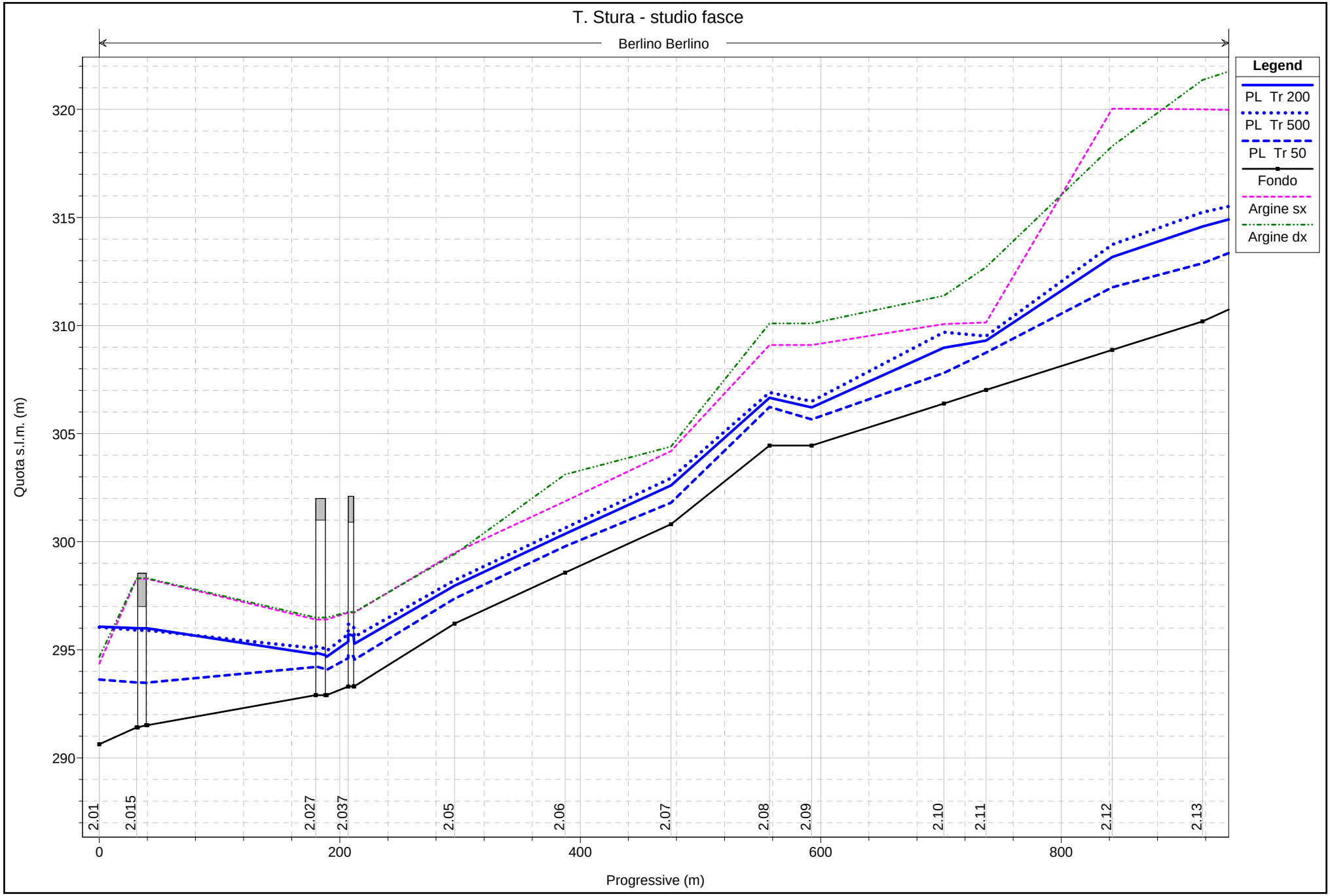
Progressive (m)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Argine dx
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320
315
310
305
300
295
290
2.01
2.015
2.027
2.037
2.05
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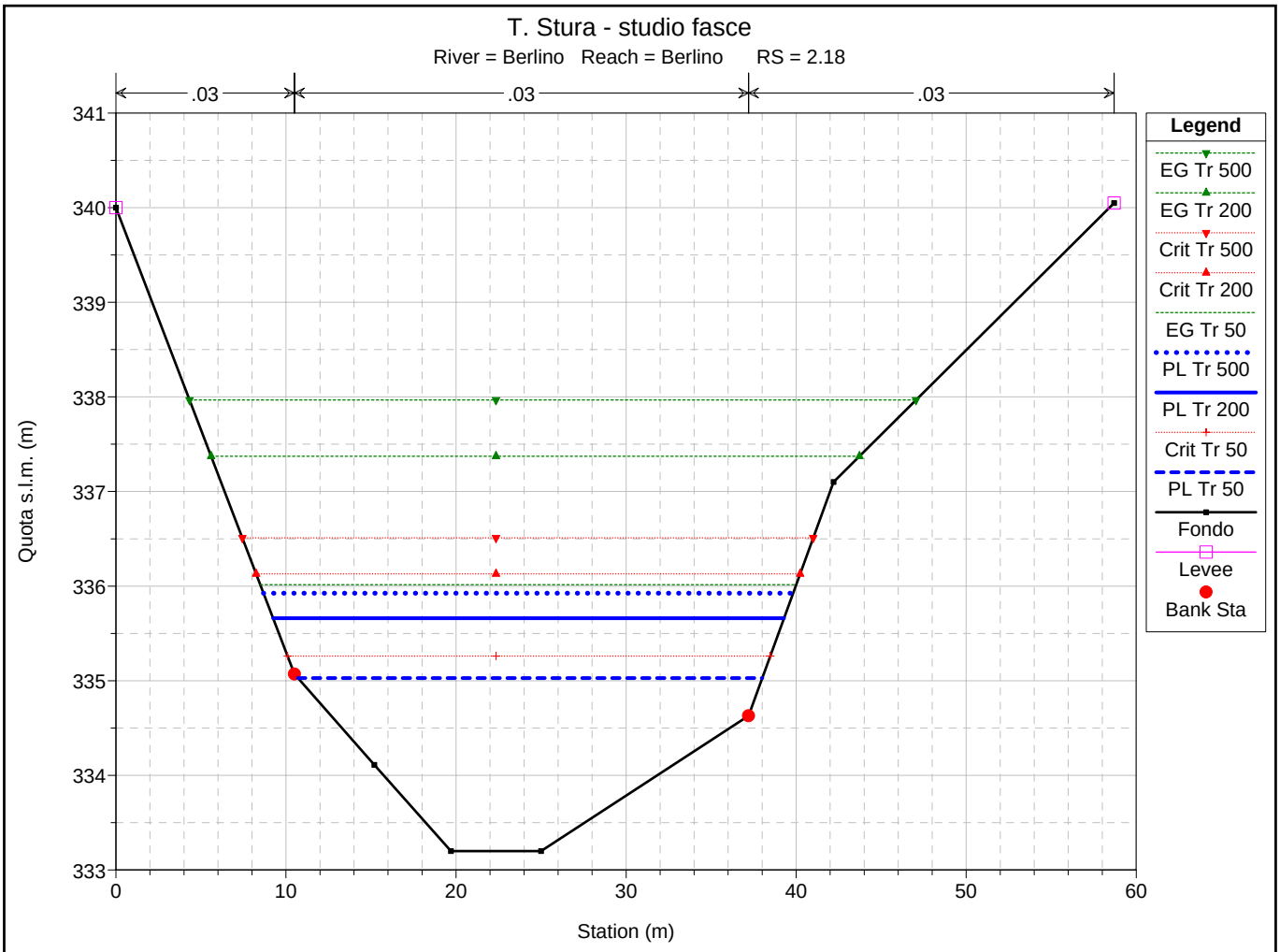
Progressive (m)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.03
.03
.03
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Station (m)
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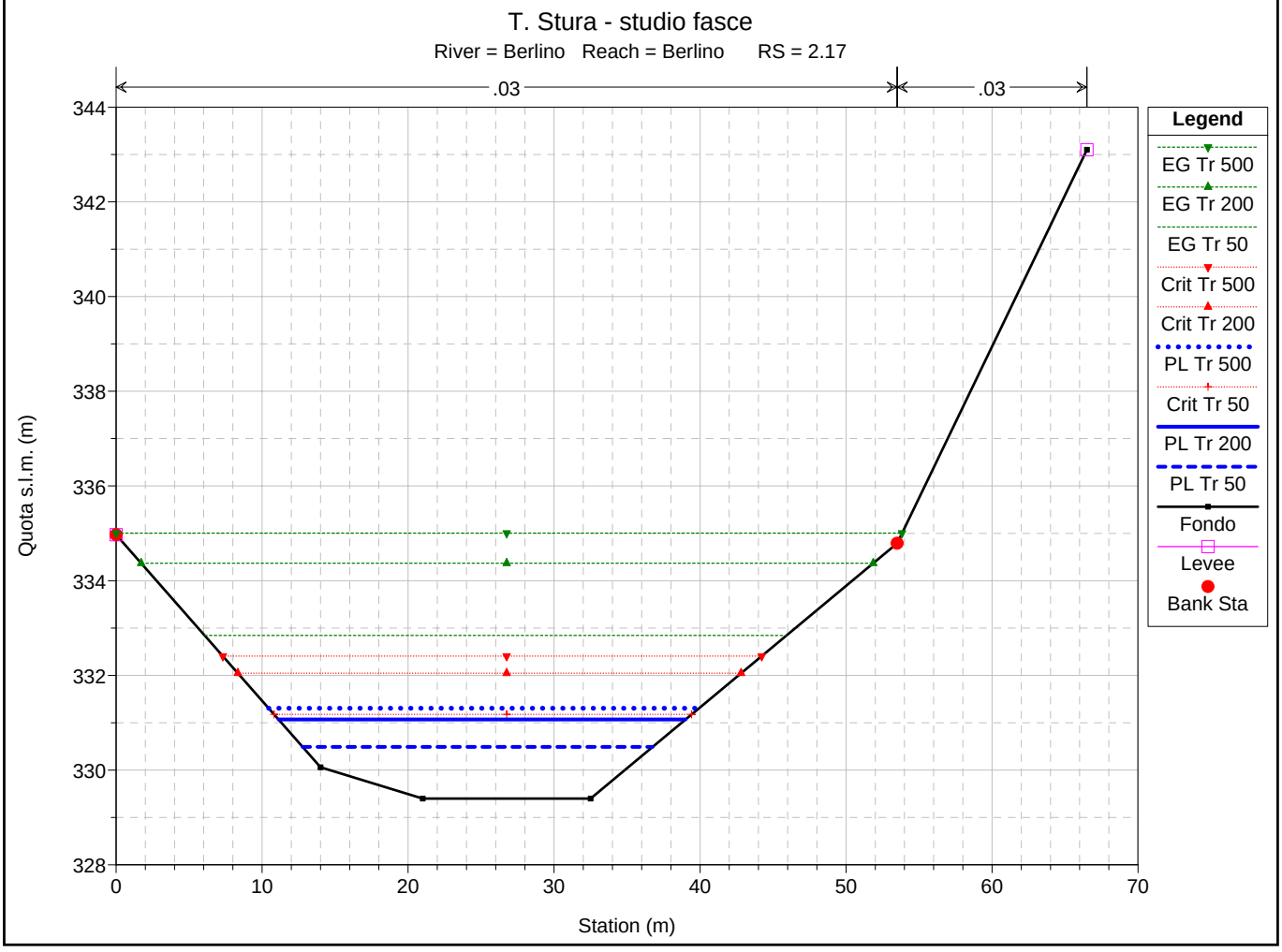
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta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.03
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Station (m)
Legend
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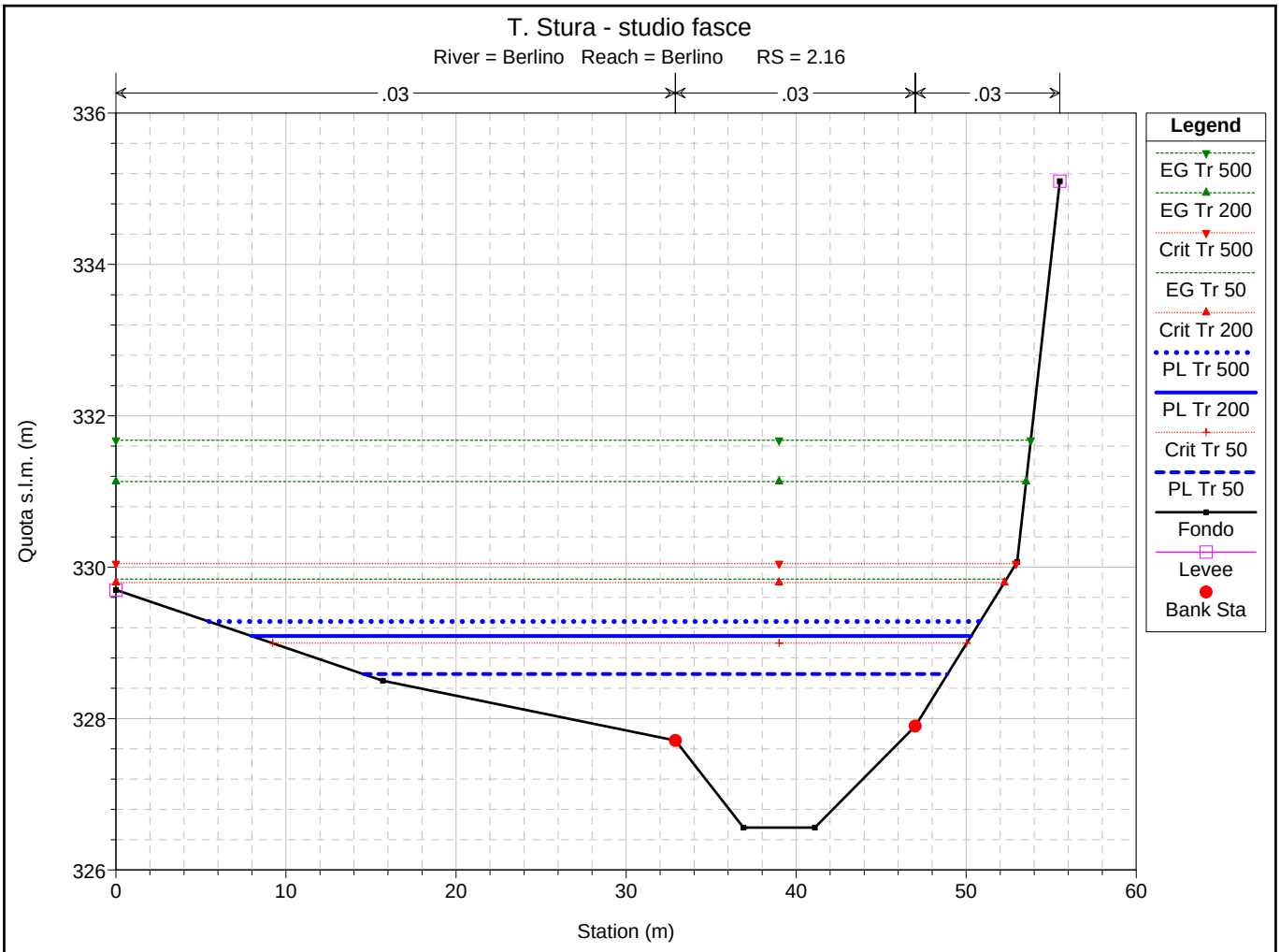
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta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.03
.03
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Station (m)
Legend
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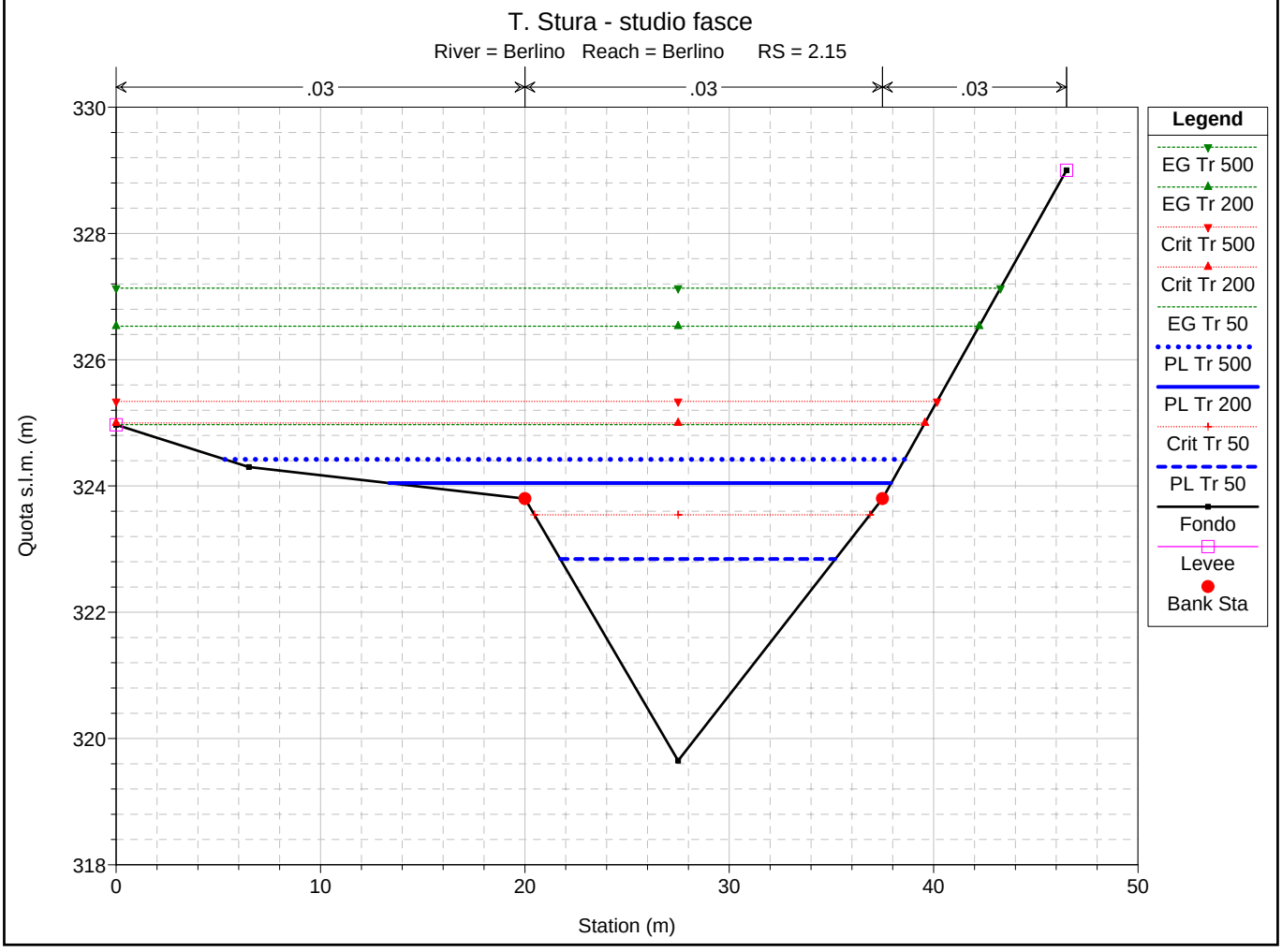
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta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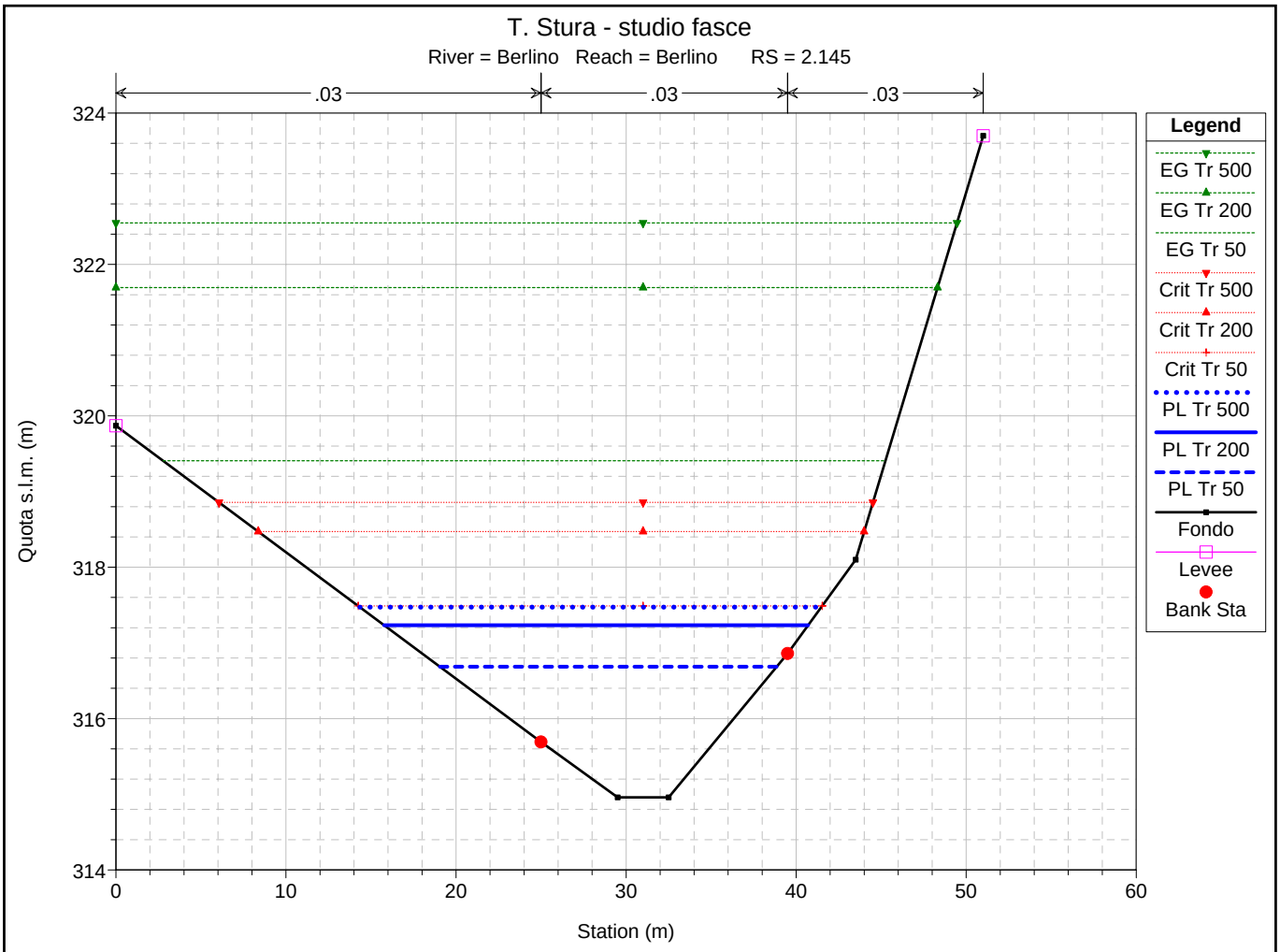
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta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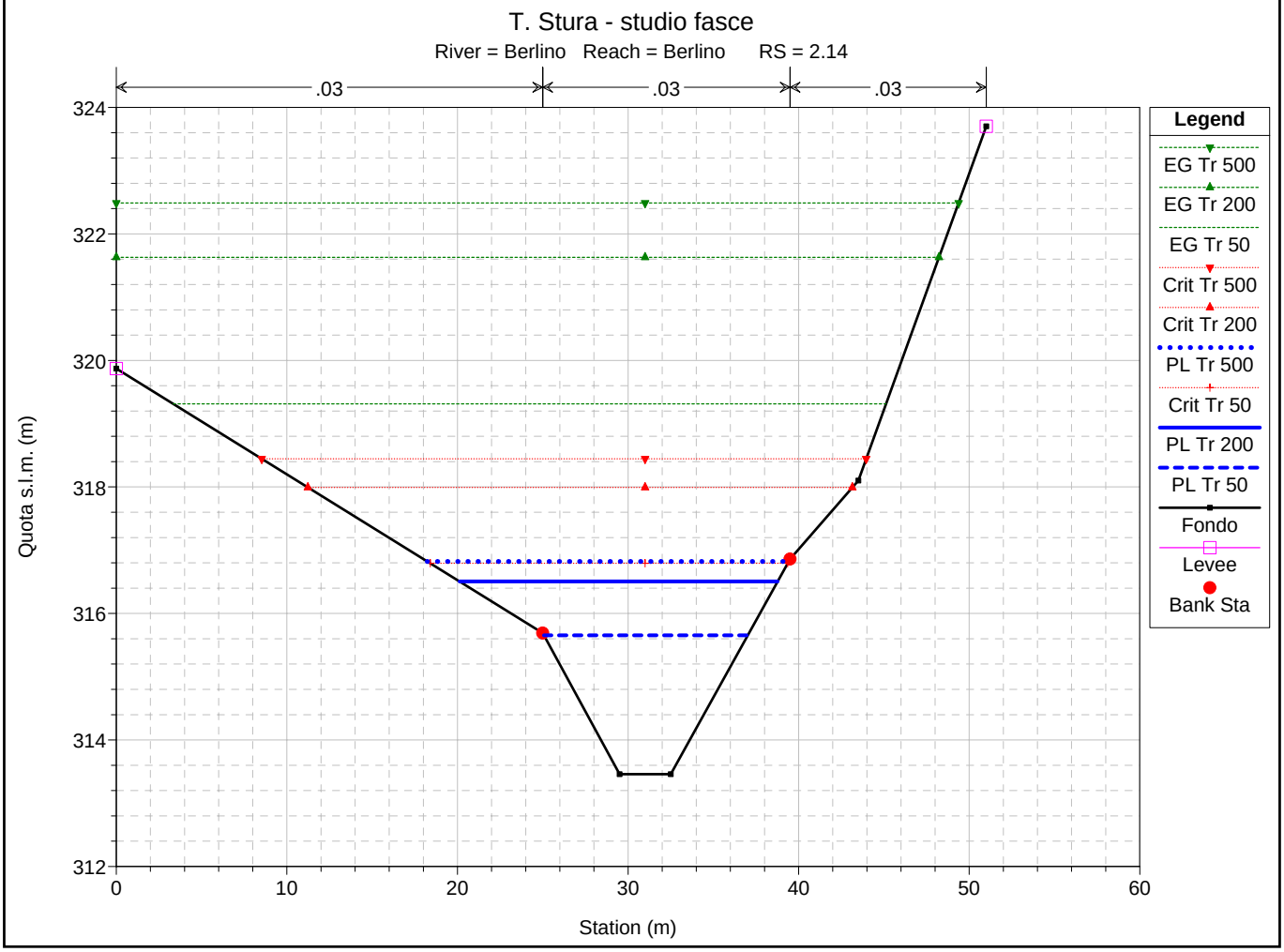
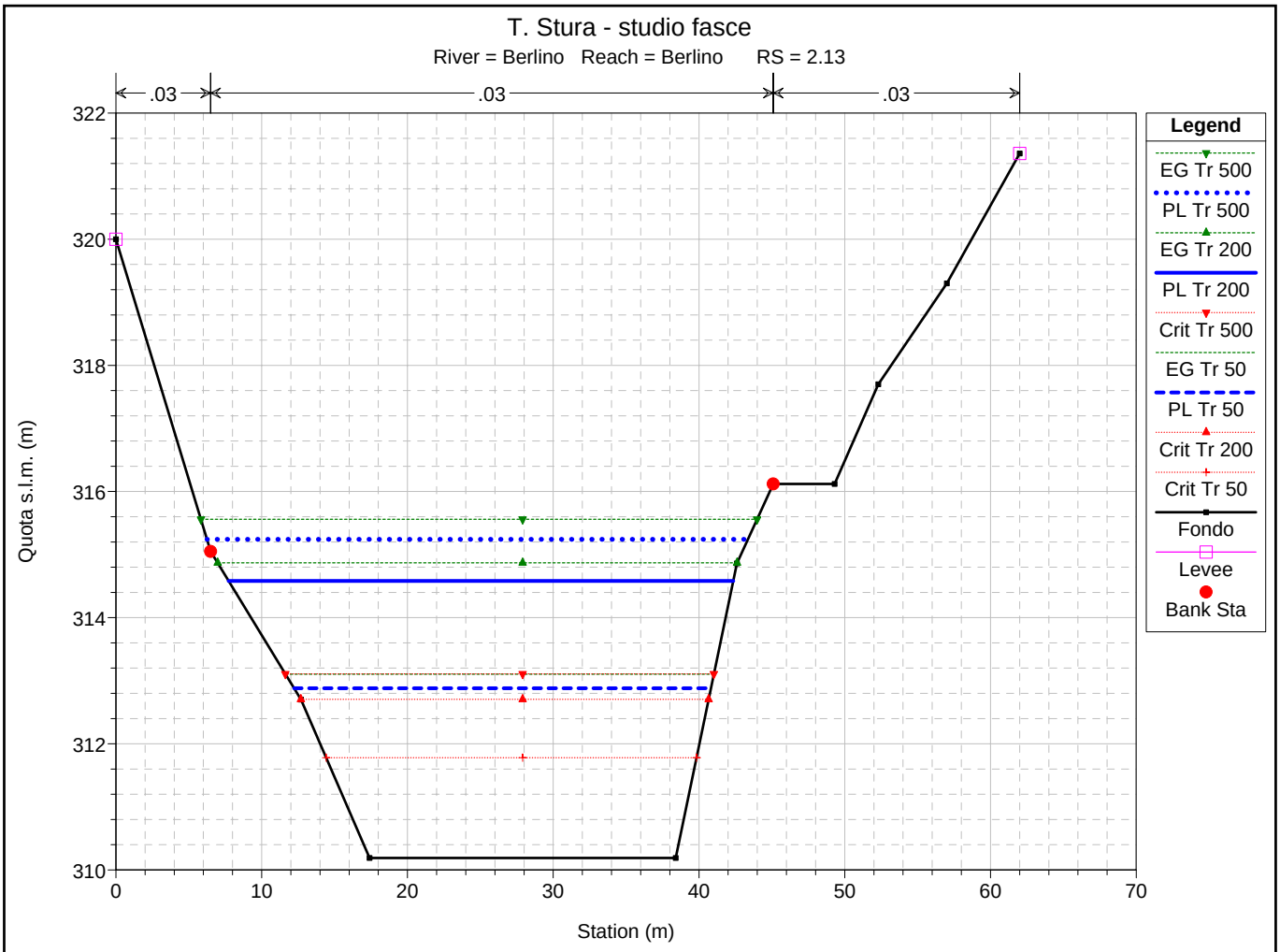
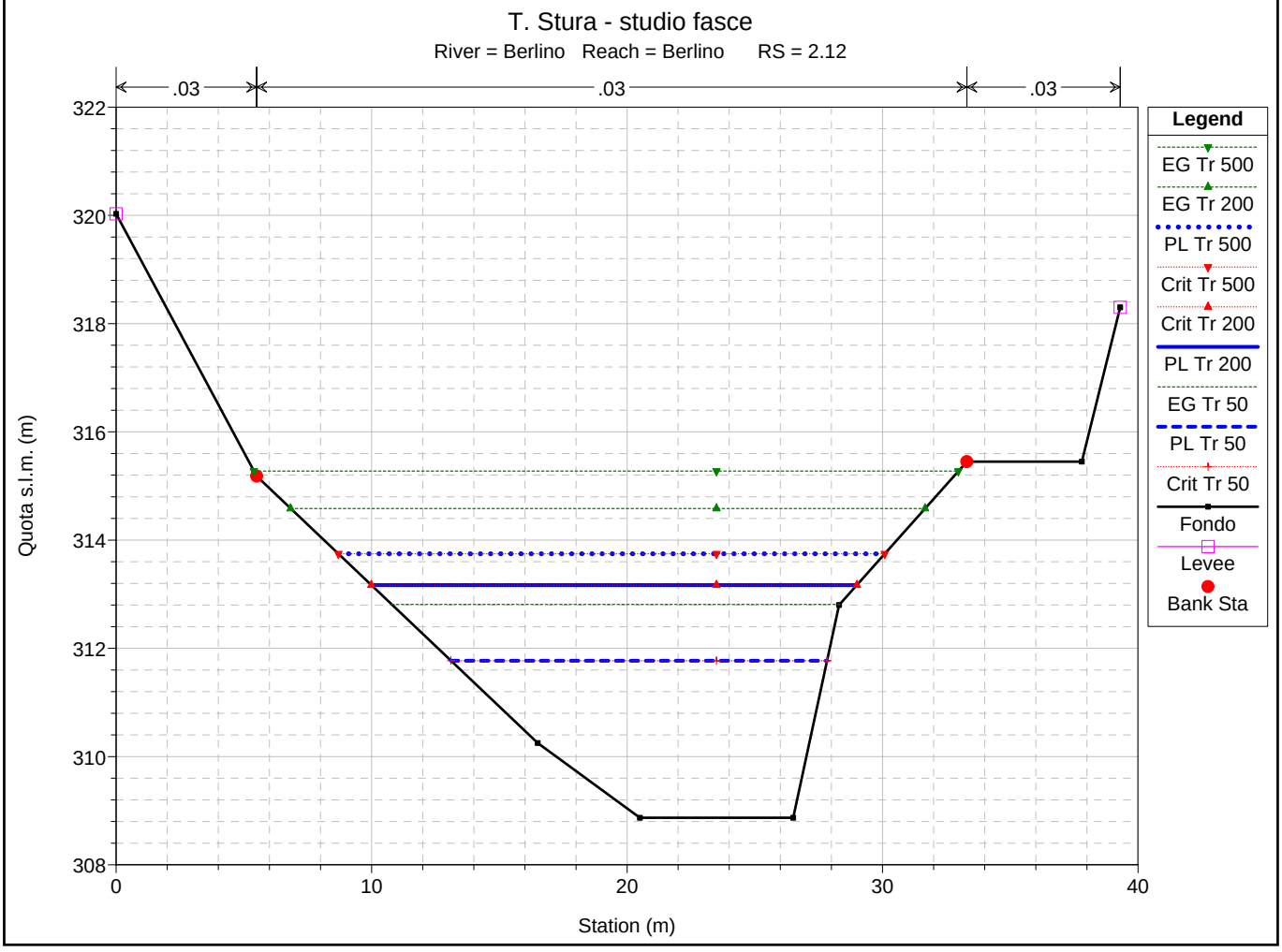
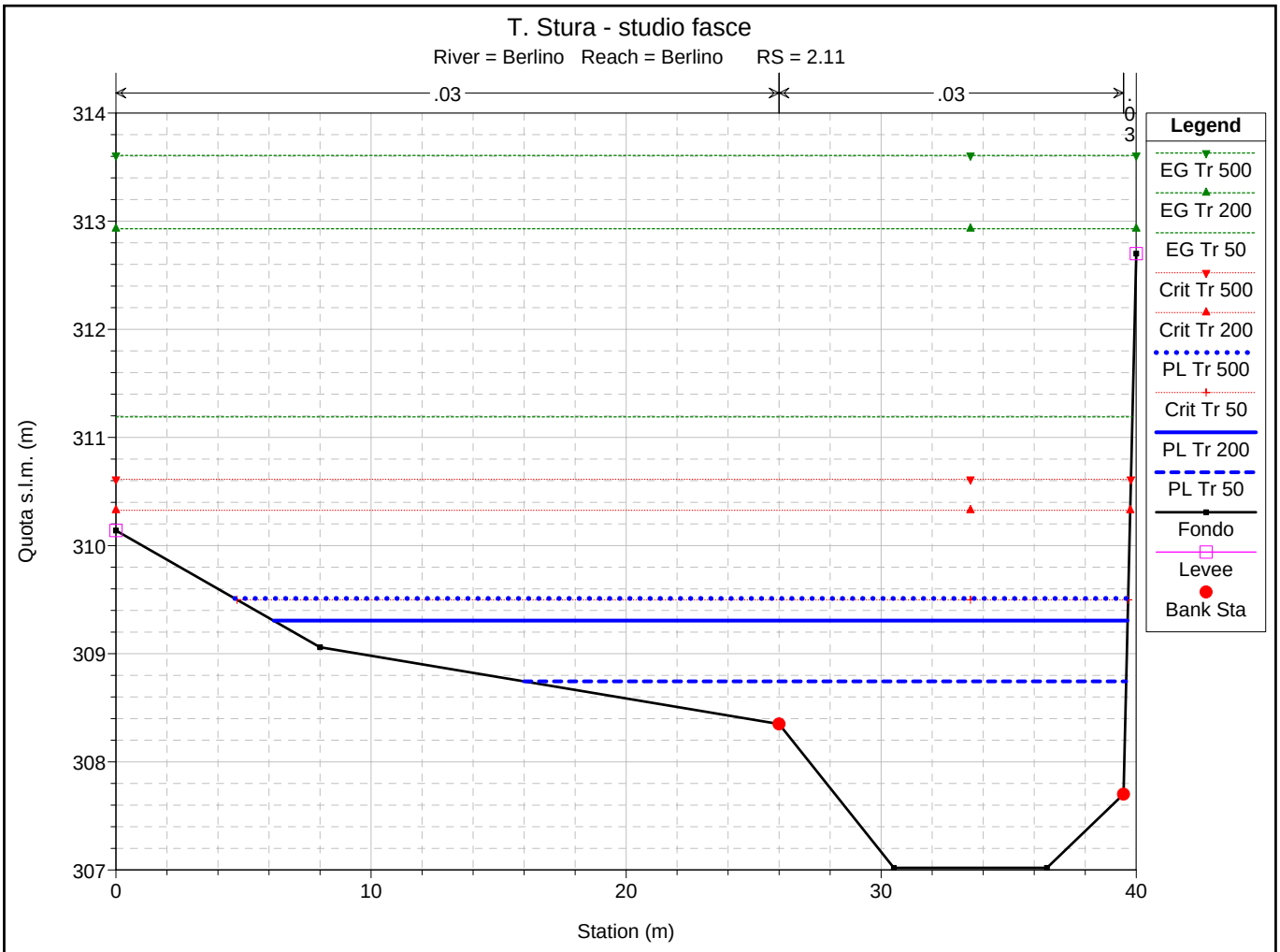
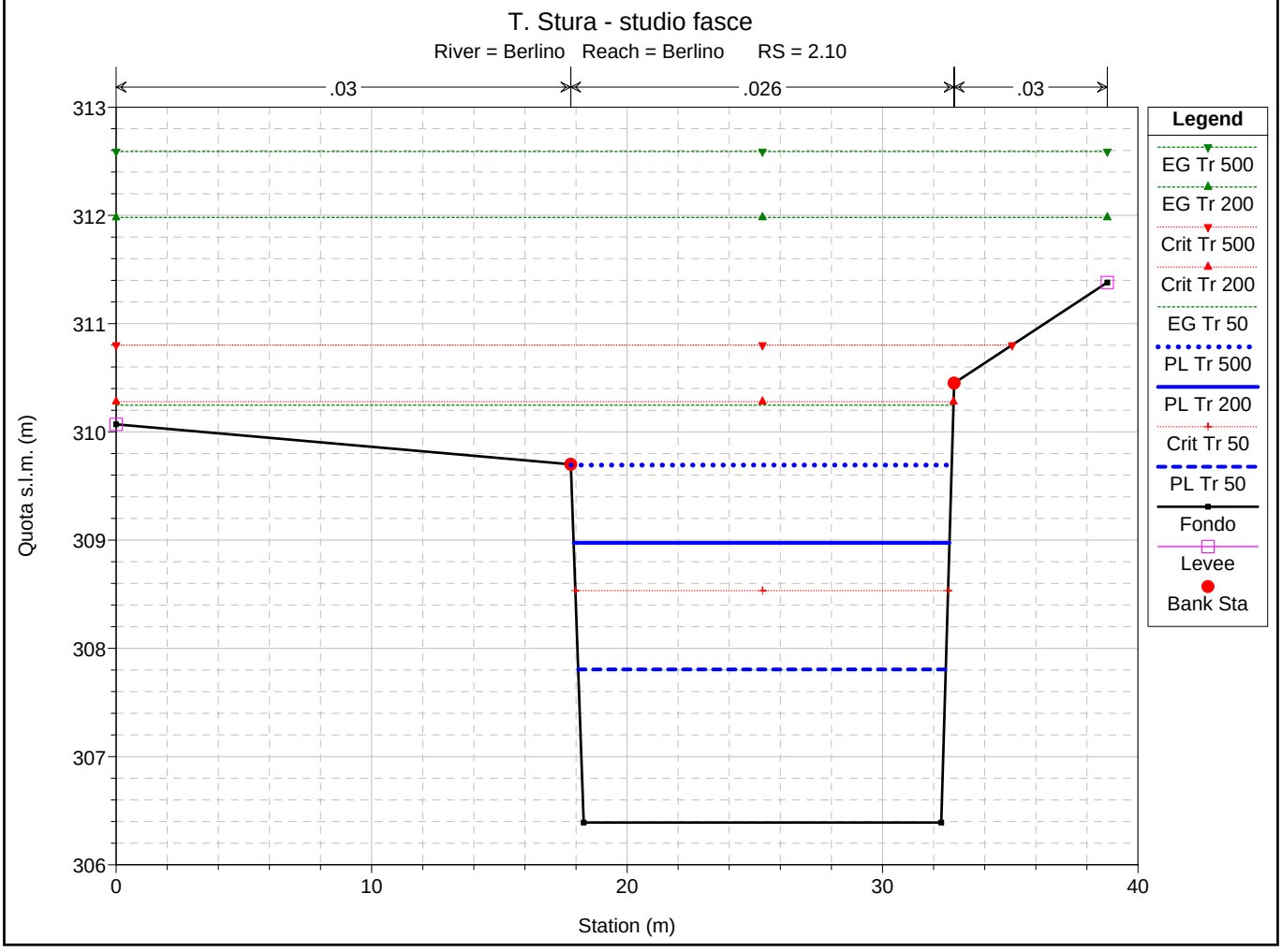
.03
.03
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)
324
322
320
318
316
314
0
10
20
30
40
50
60

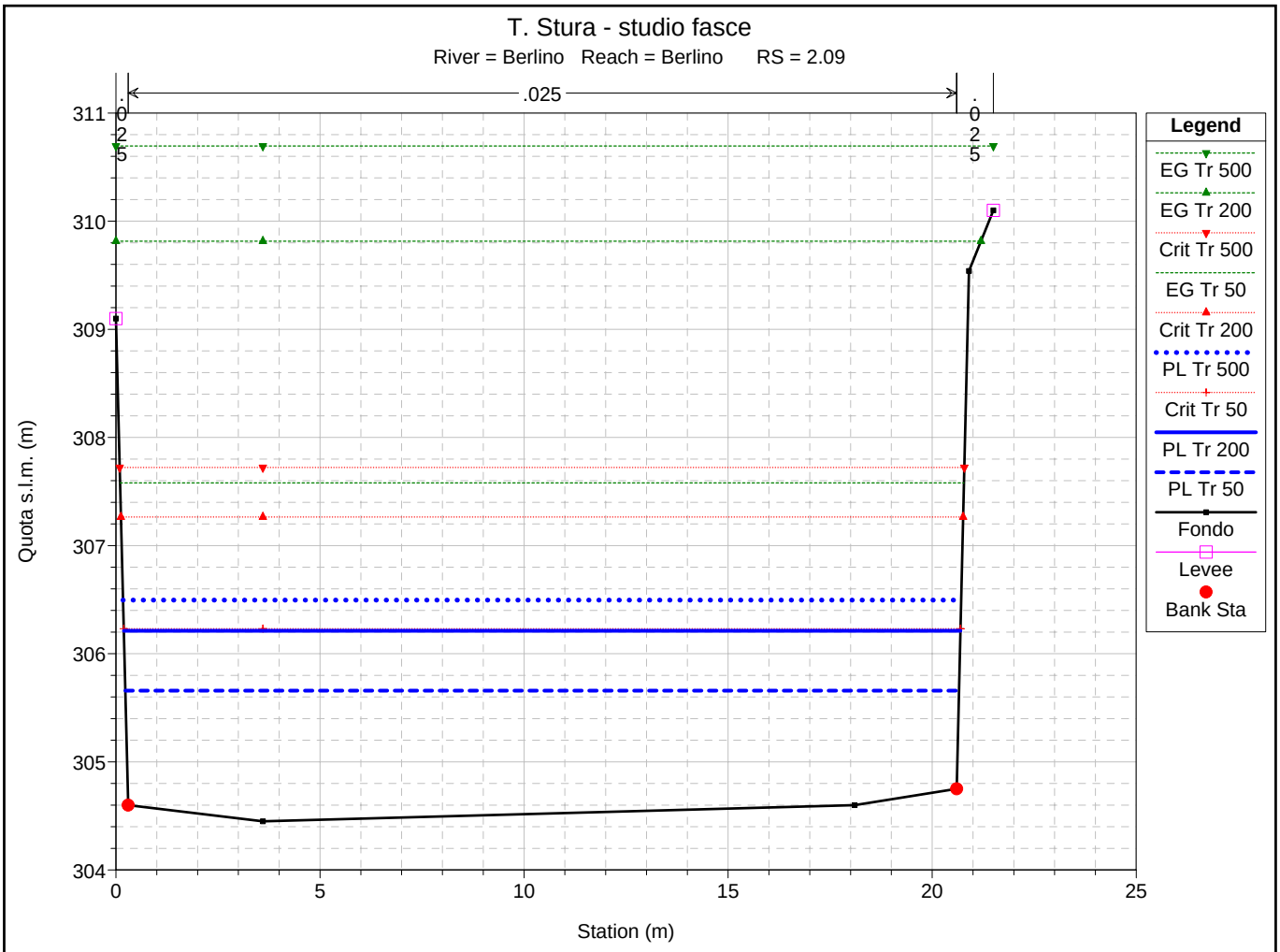

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.14
.03
.03
.03
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)
324
322
320
318
316
314
312
0
10
20
30
40
50
60

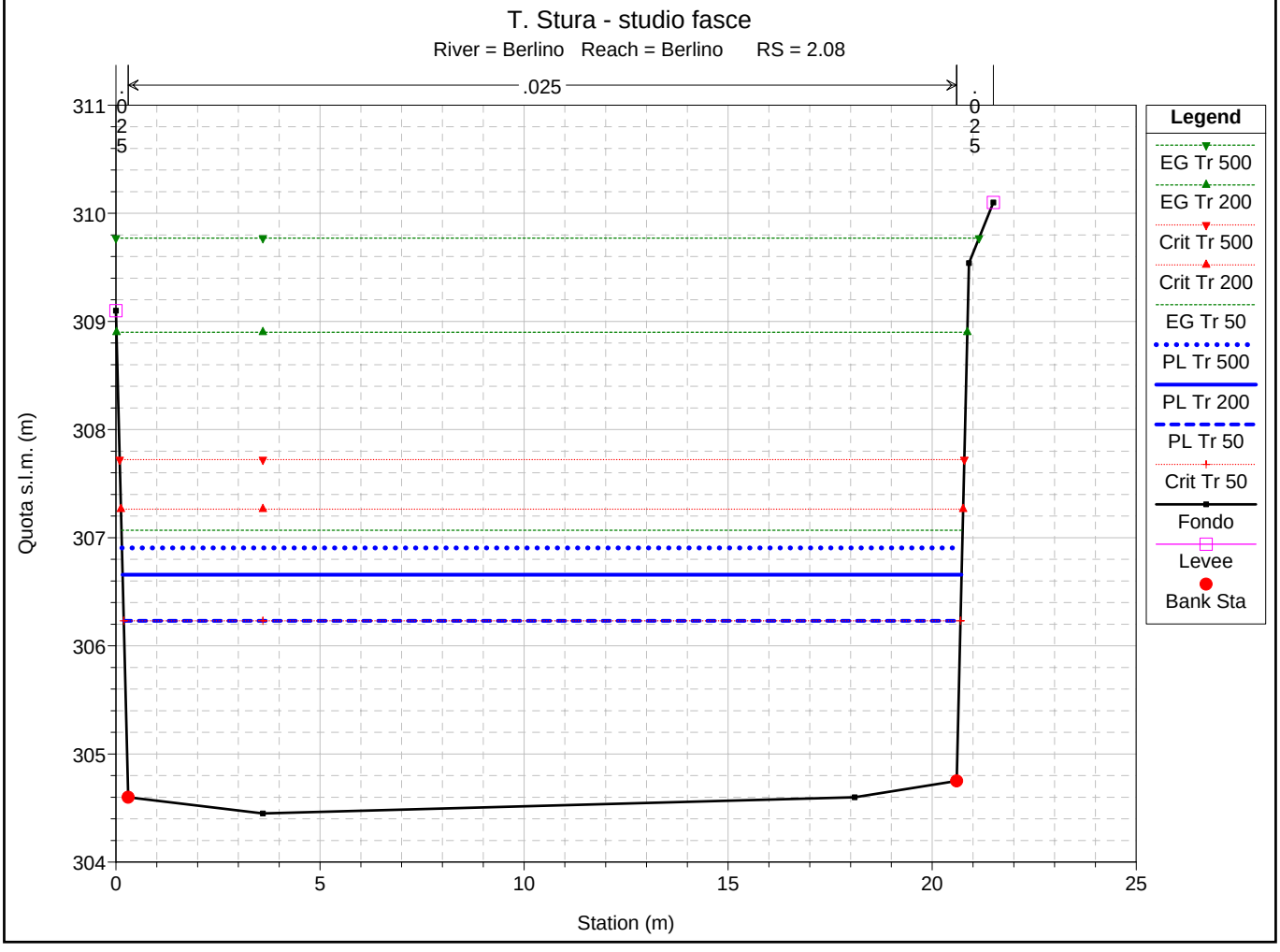

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.13
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
Crit Tr 500
EG Tr 50
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta

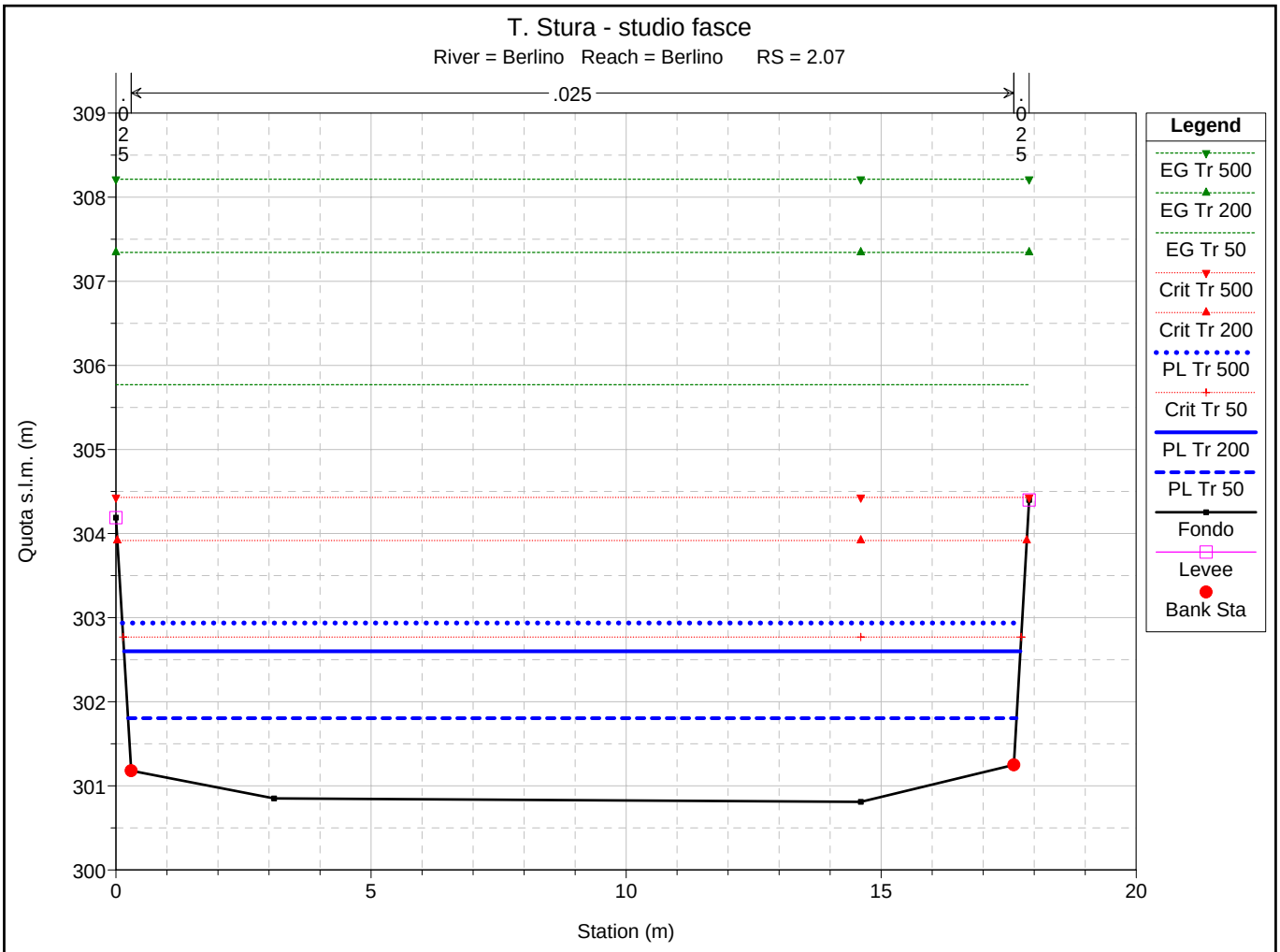

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.12
.03
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

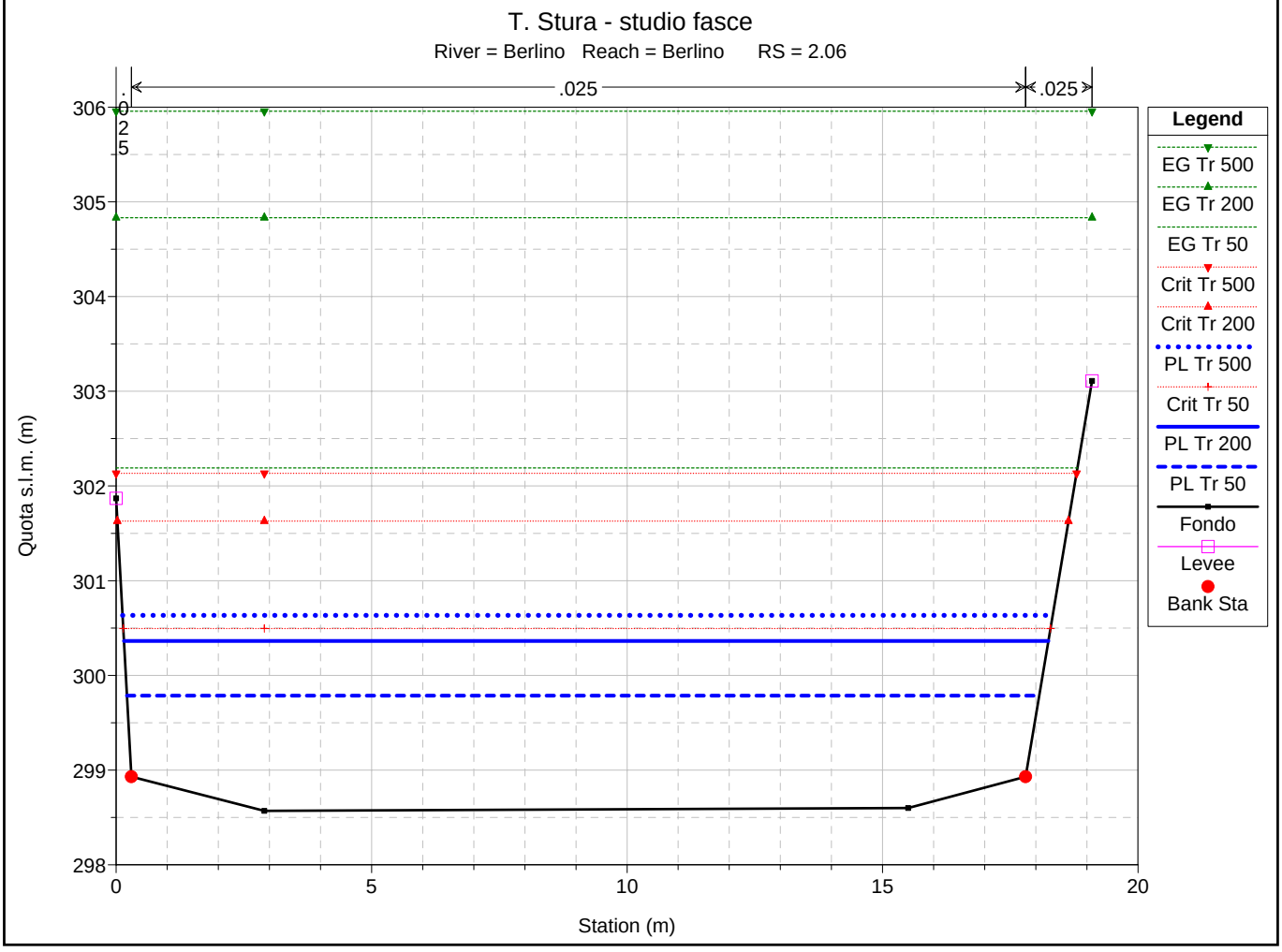

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.11
.03
.03
.03
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)
314
313
312
311
310
309
308
307
0
10
20
30
40

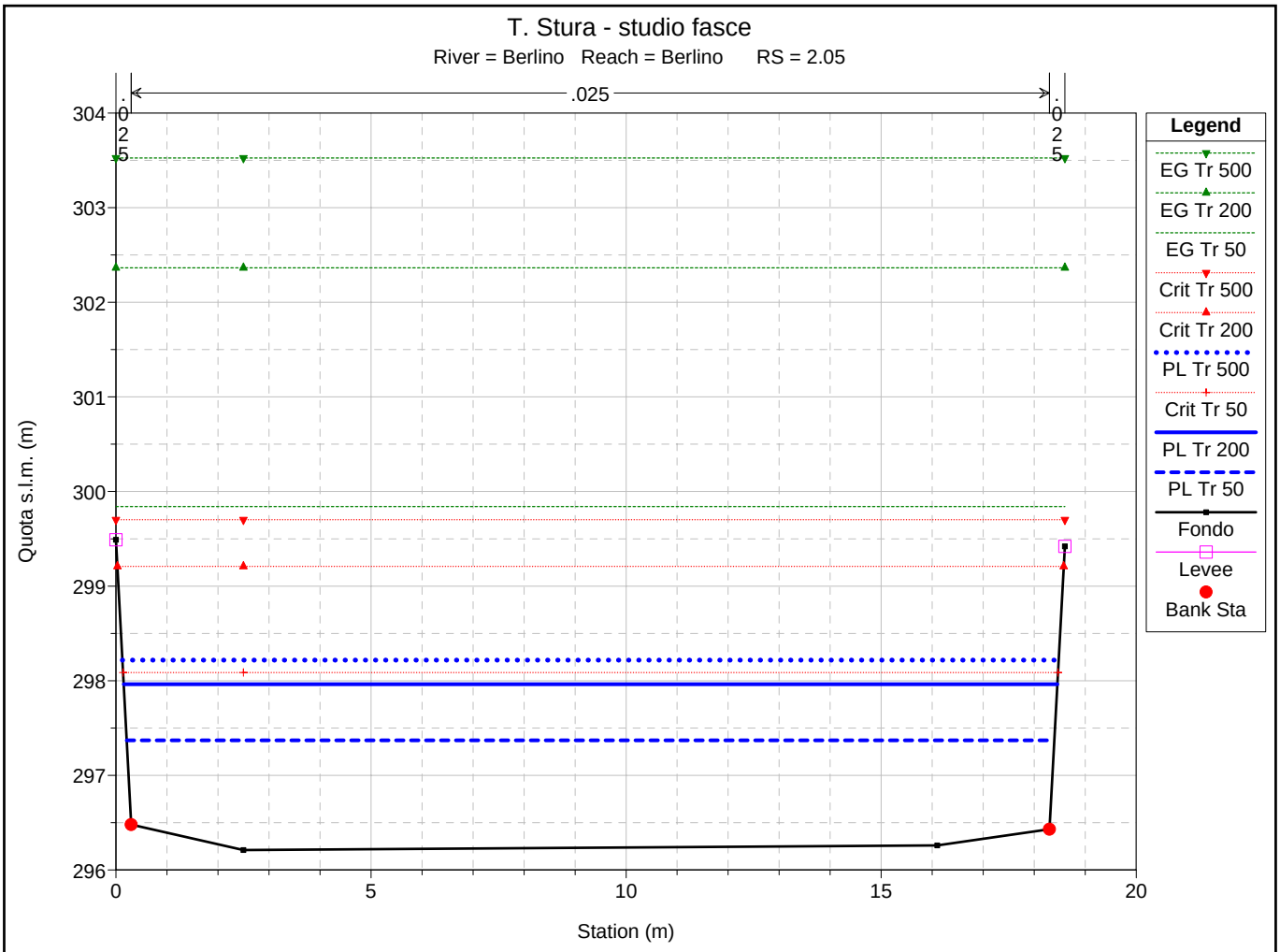

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.10
.03
.026
.03
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)
313
312
311
310
309
308
307
306
0
10
20
30
40

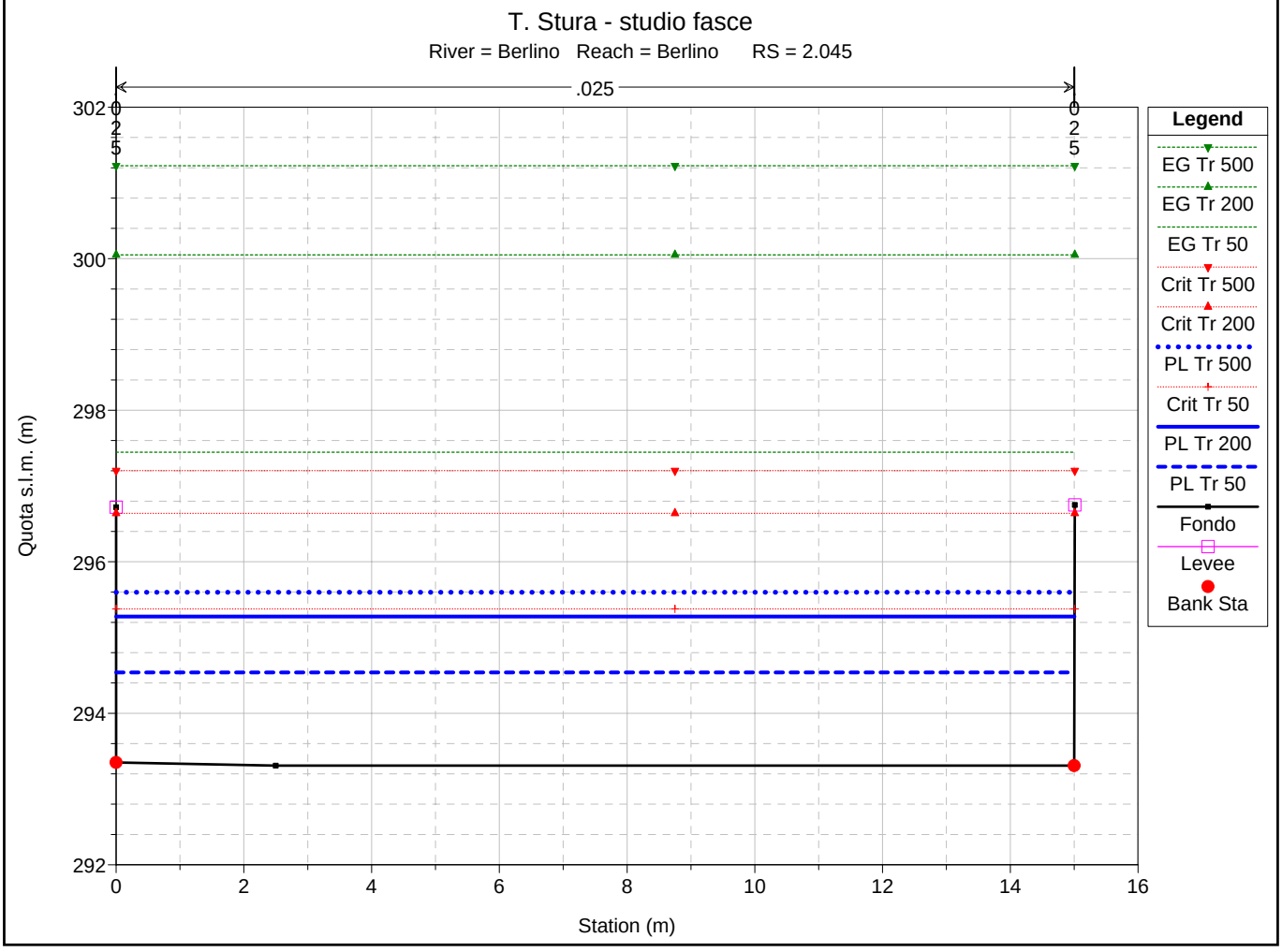

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.09
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

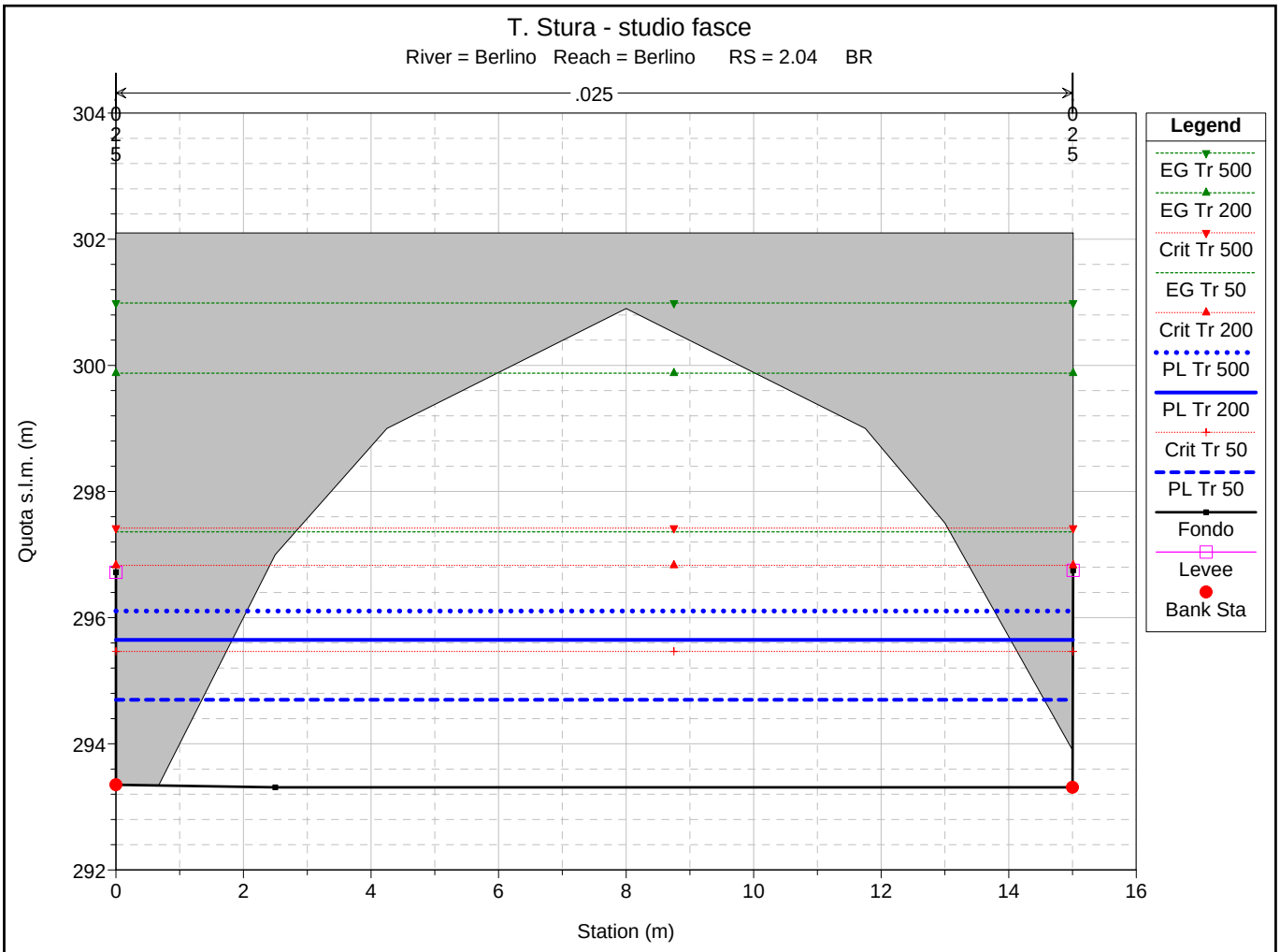

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.08
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta

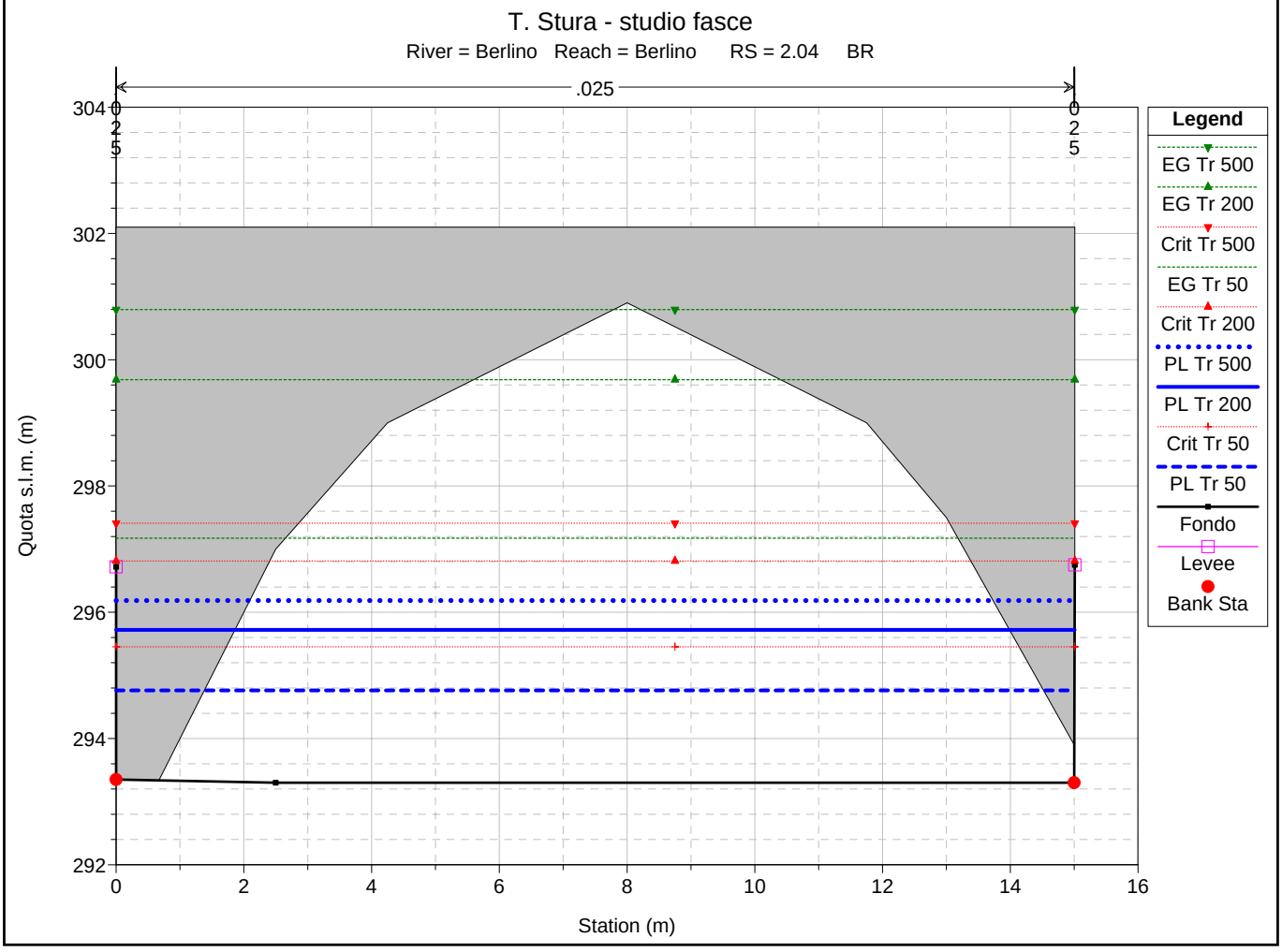

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.07
.025
.025
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)

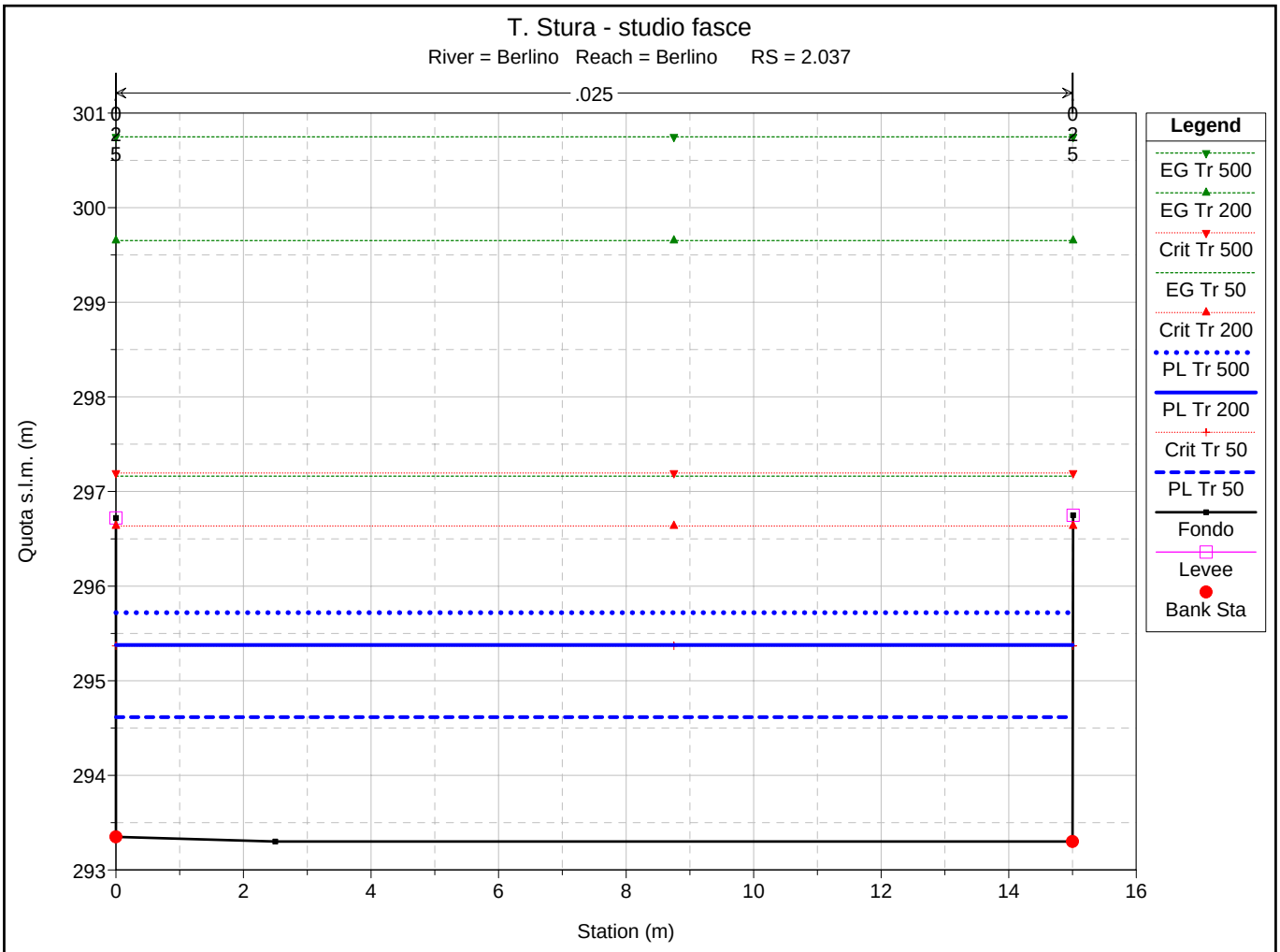

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.06
.025
.025
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)

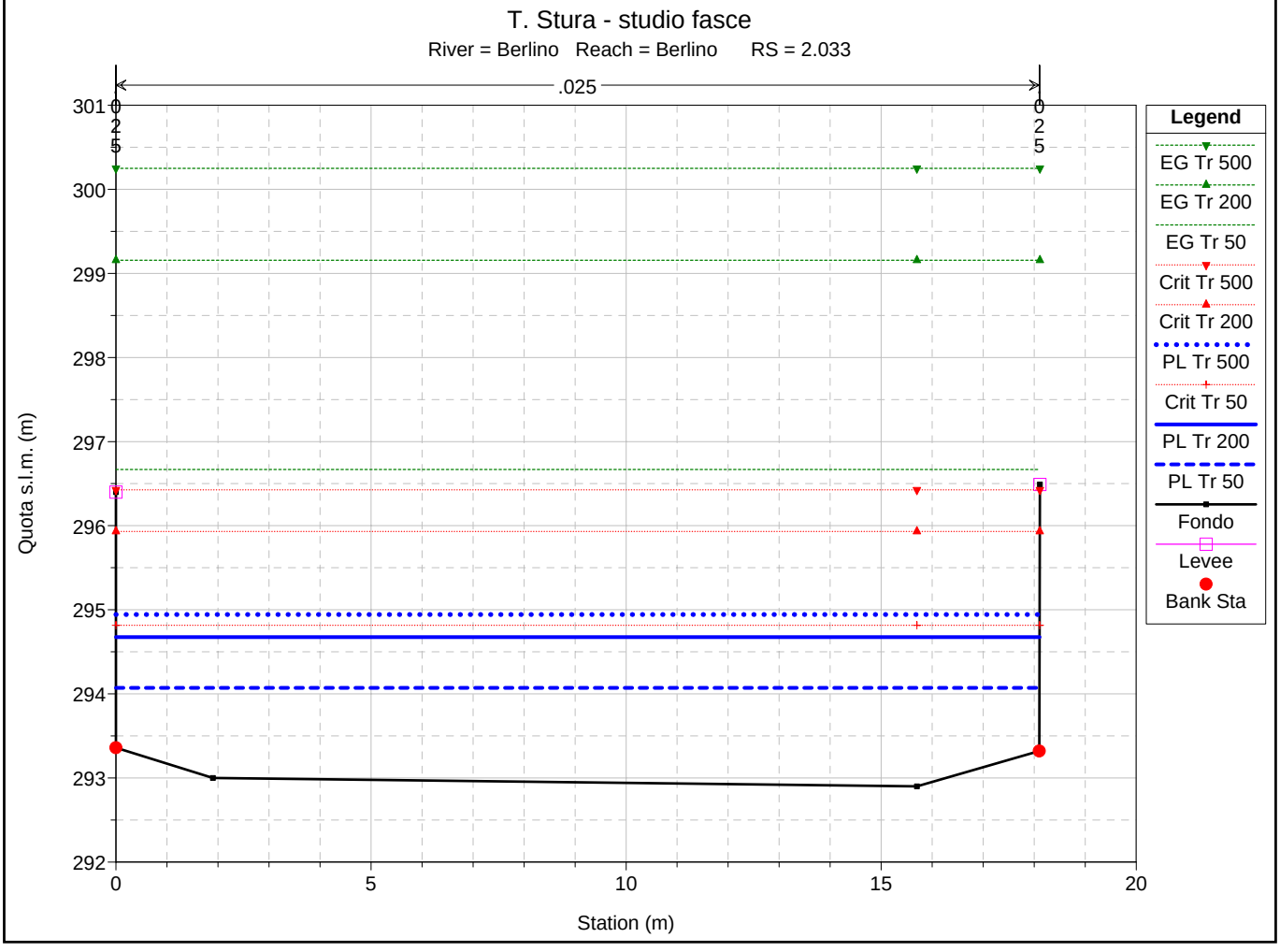

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.05
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

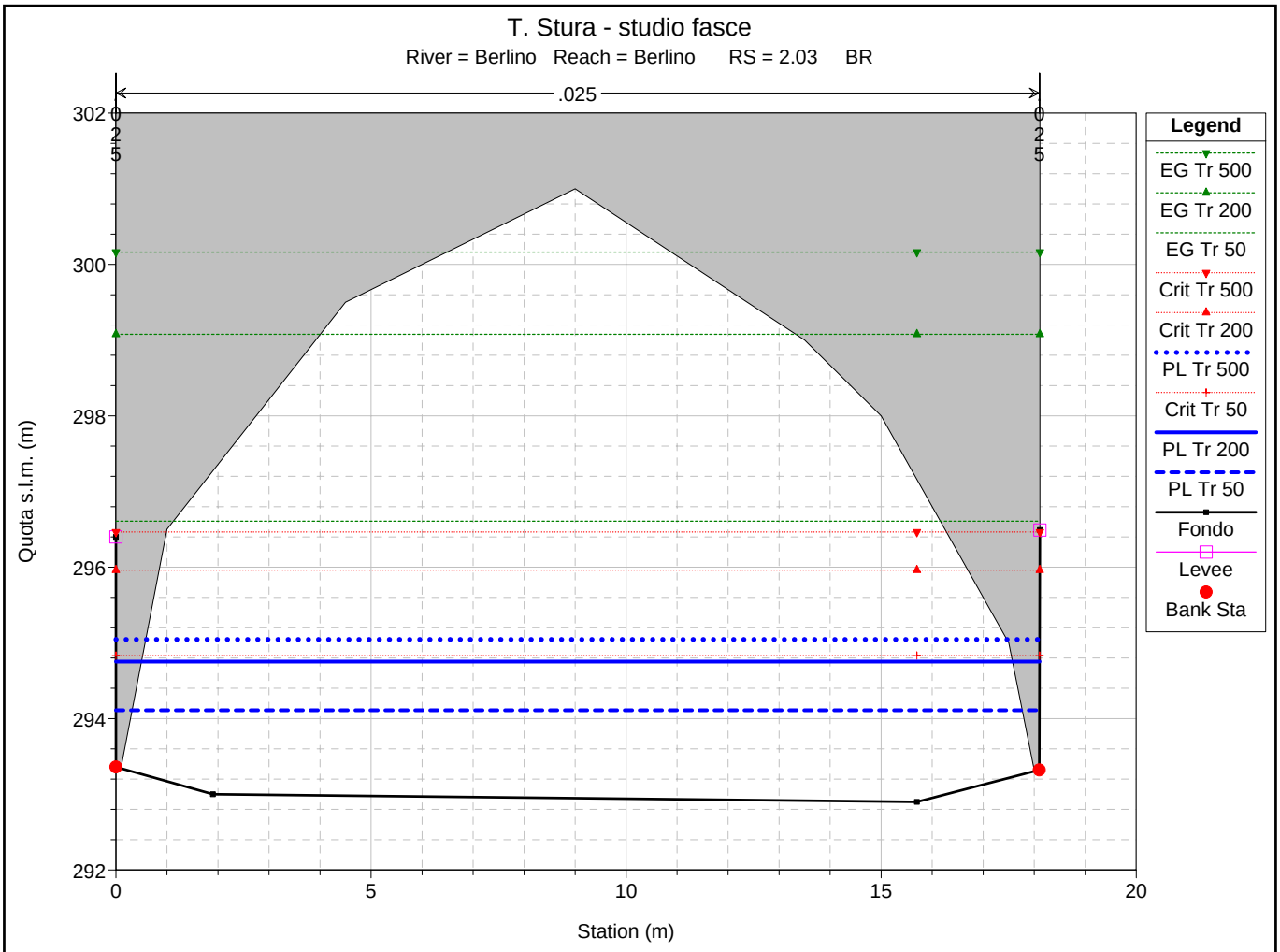

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.045
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

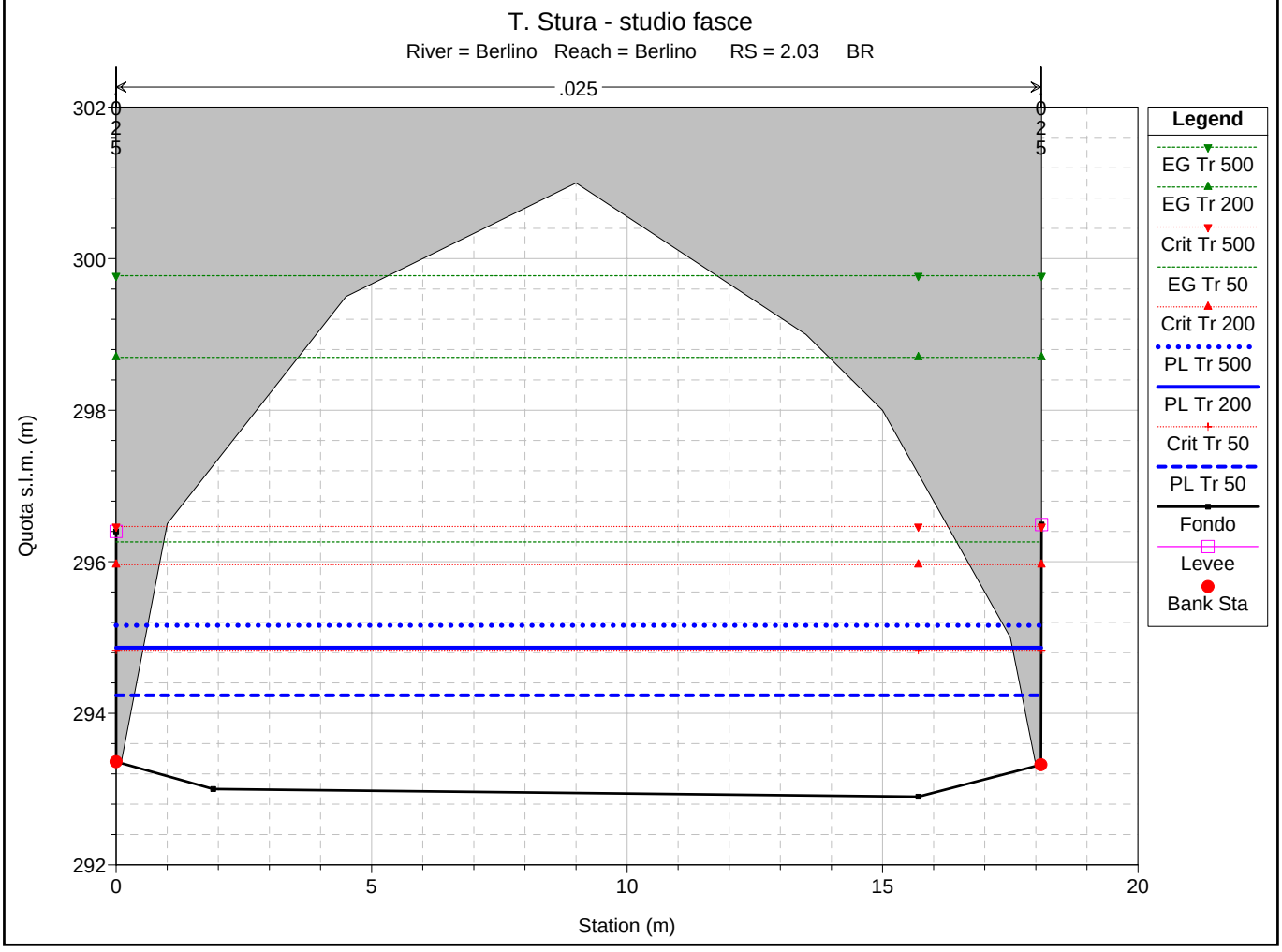

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.04 BR
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

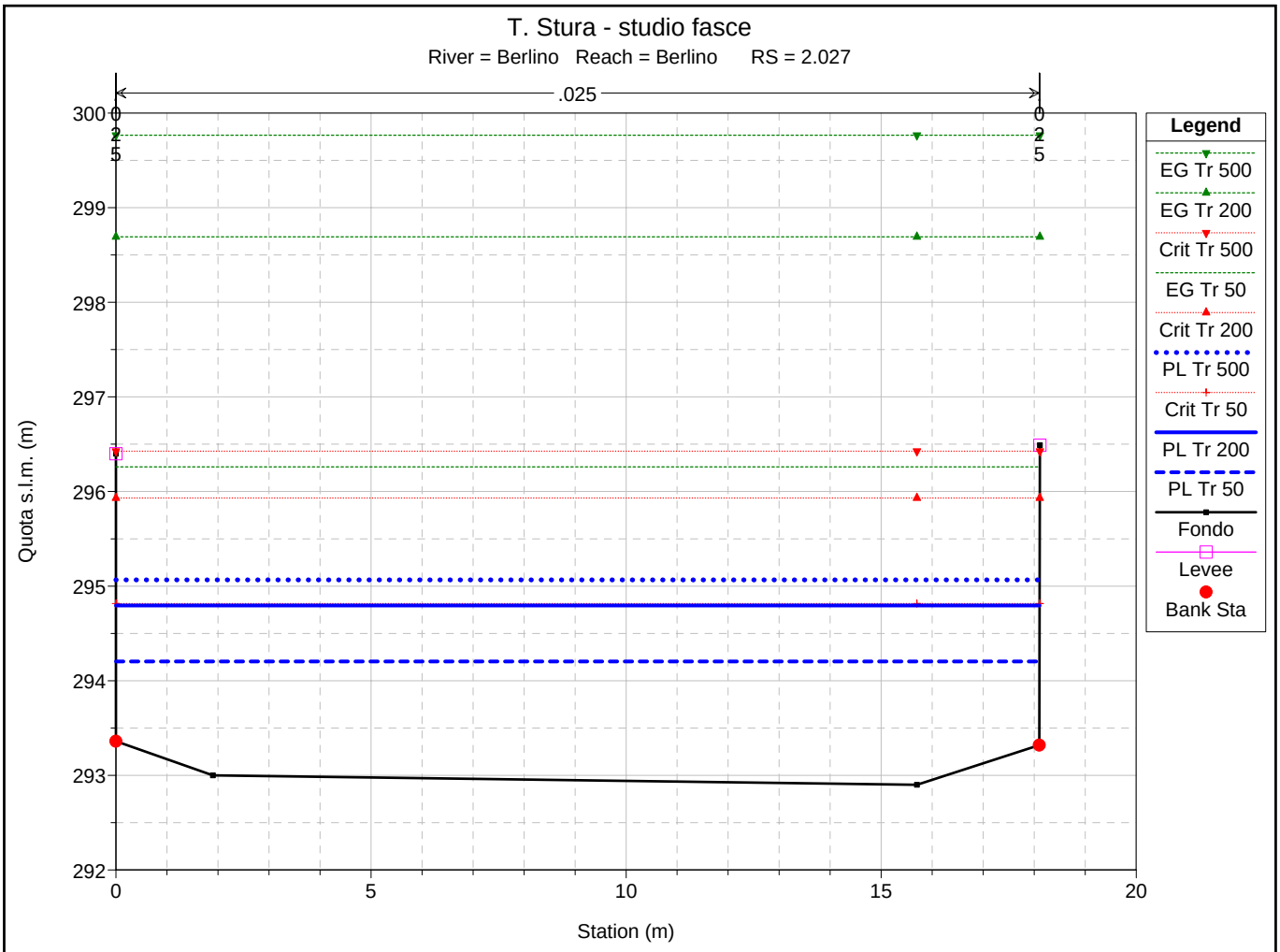

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.04 BR
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

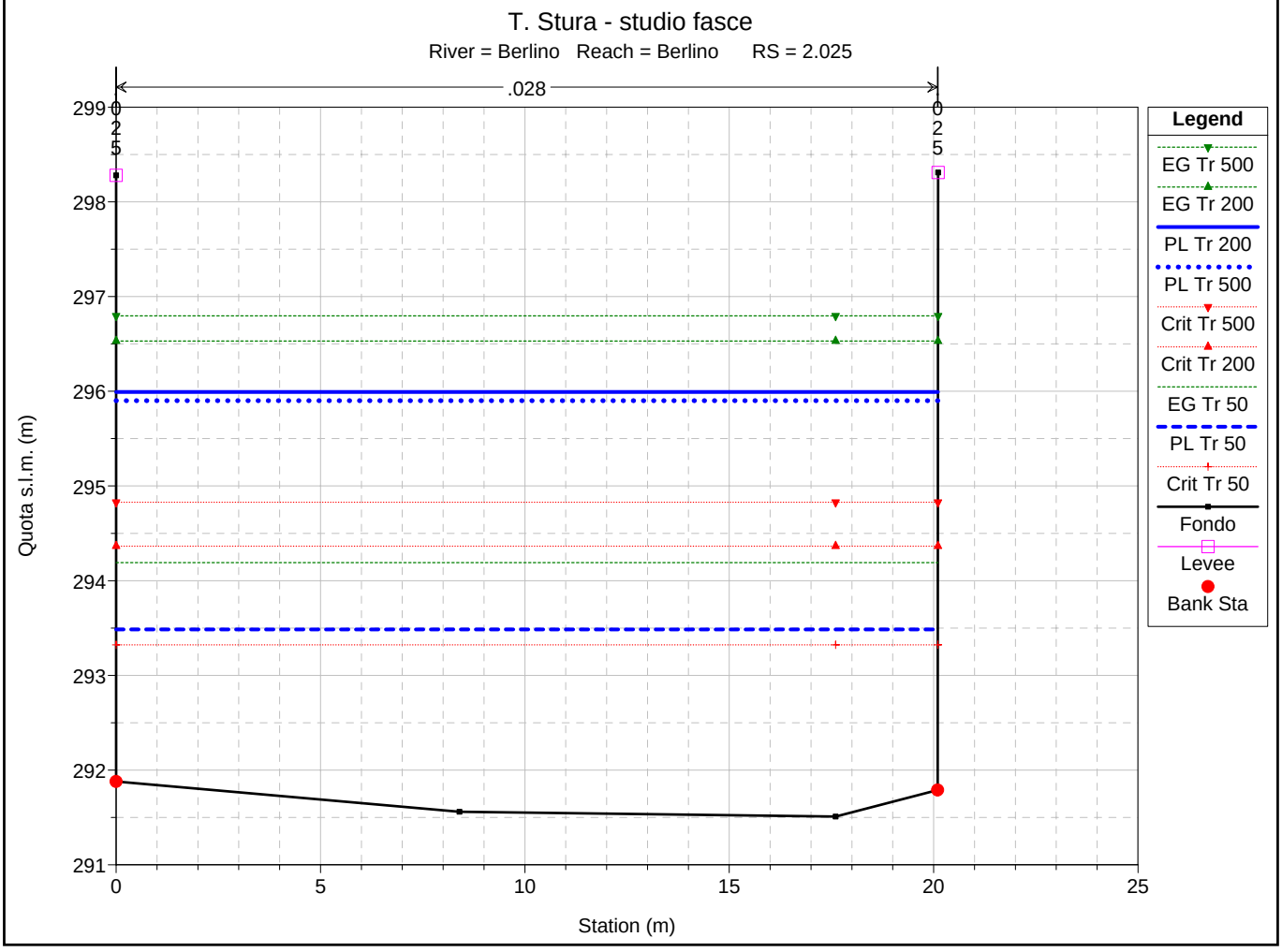

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.037
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

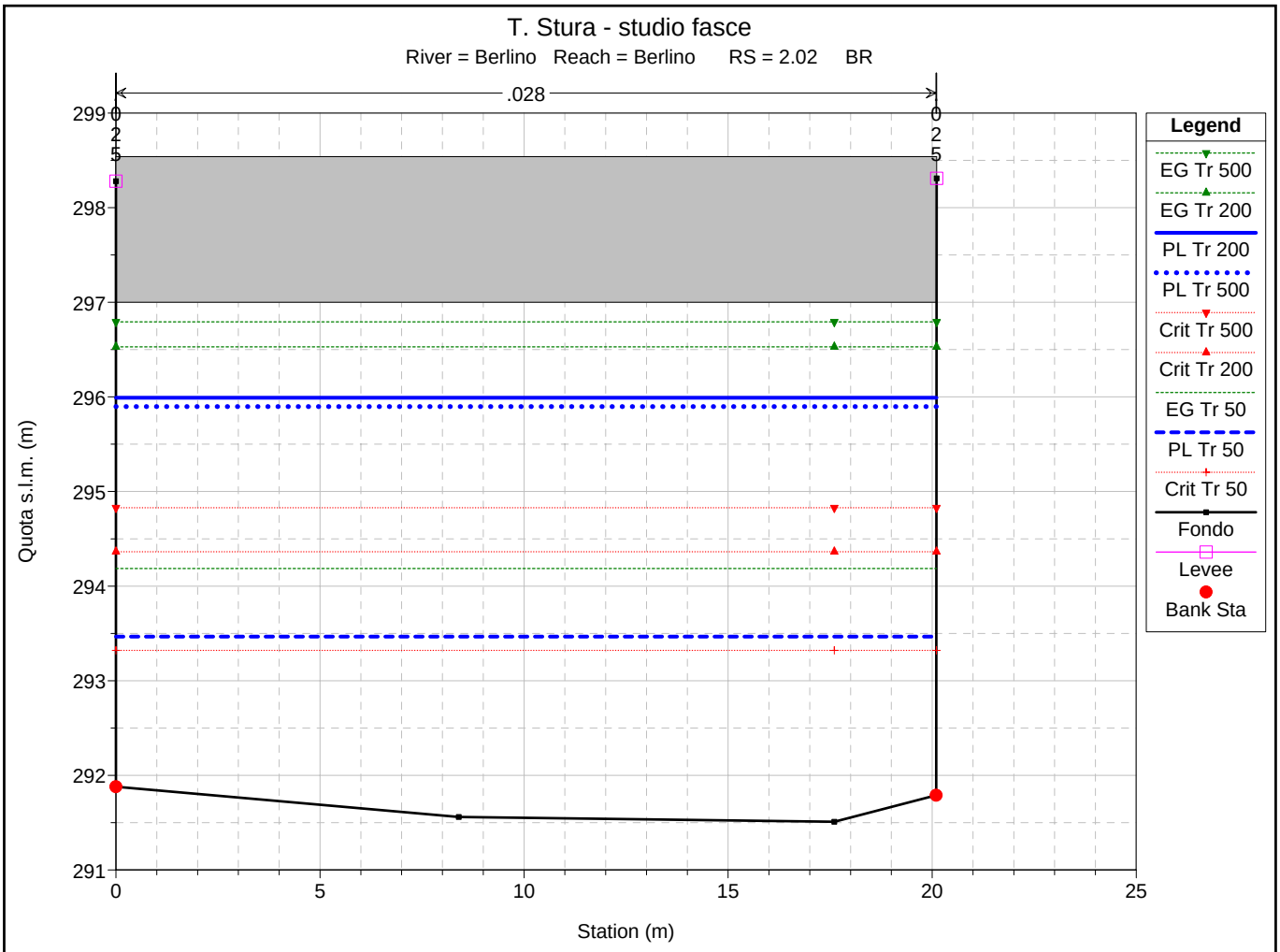

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.033
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

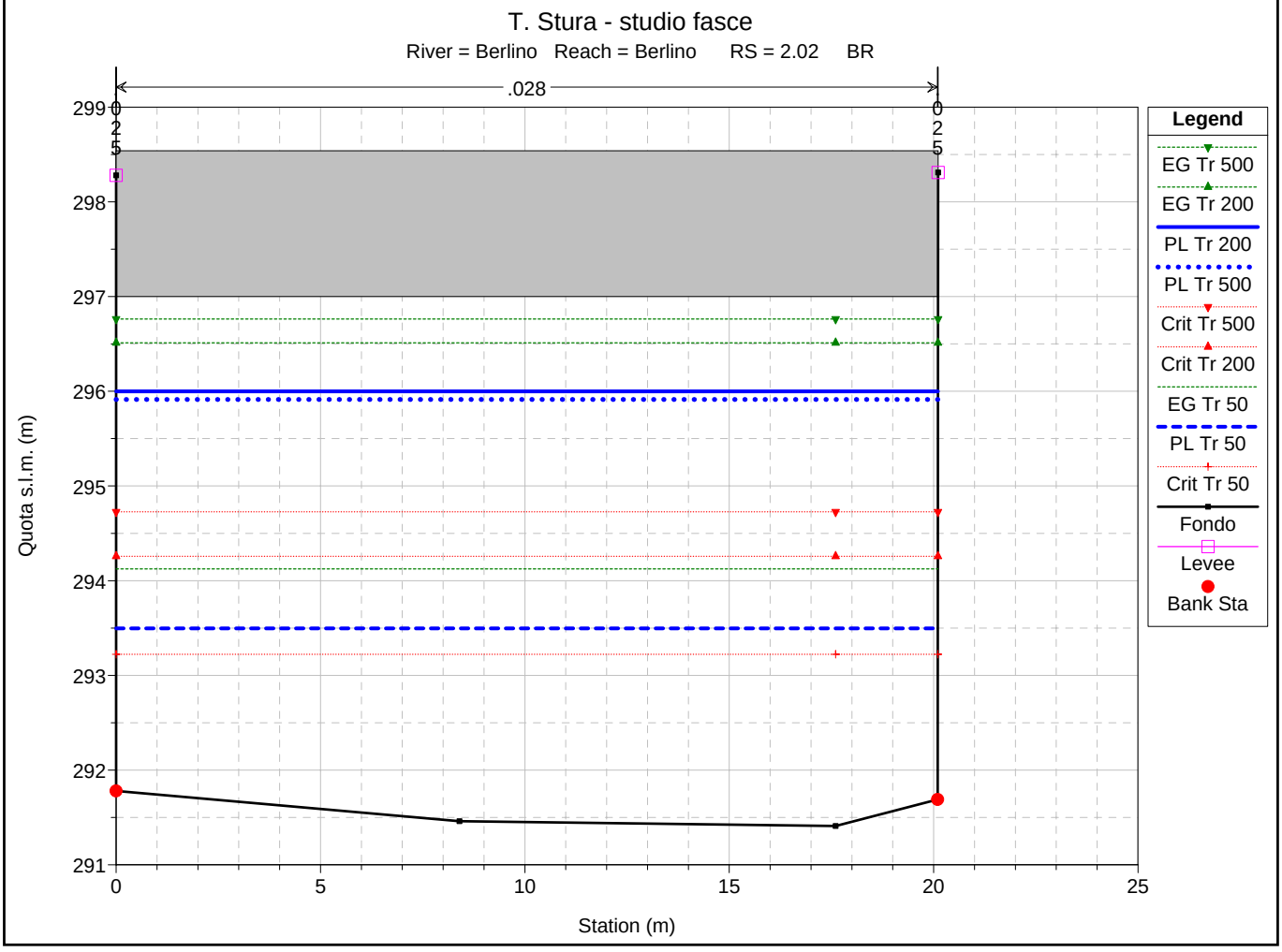

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.03 BR
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

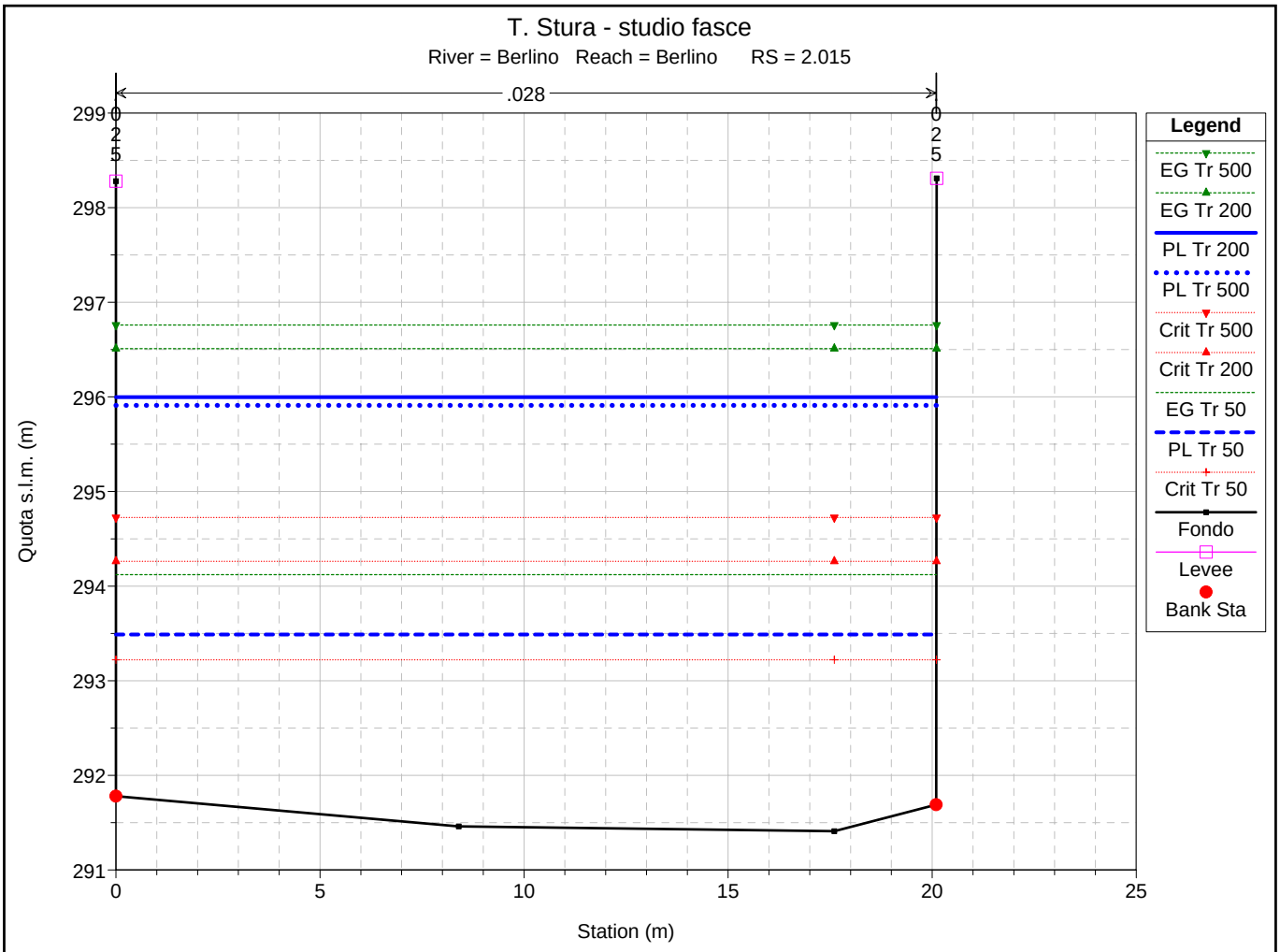

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.03 BR
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta

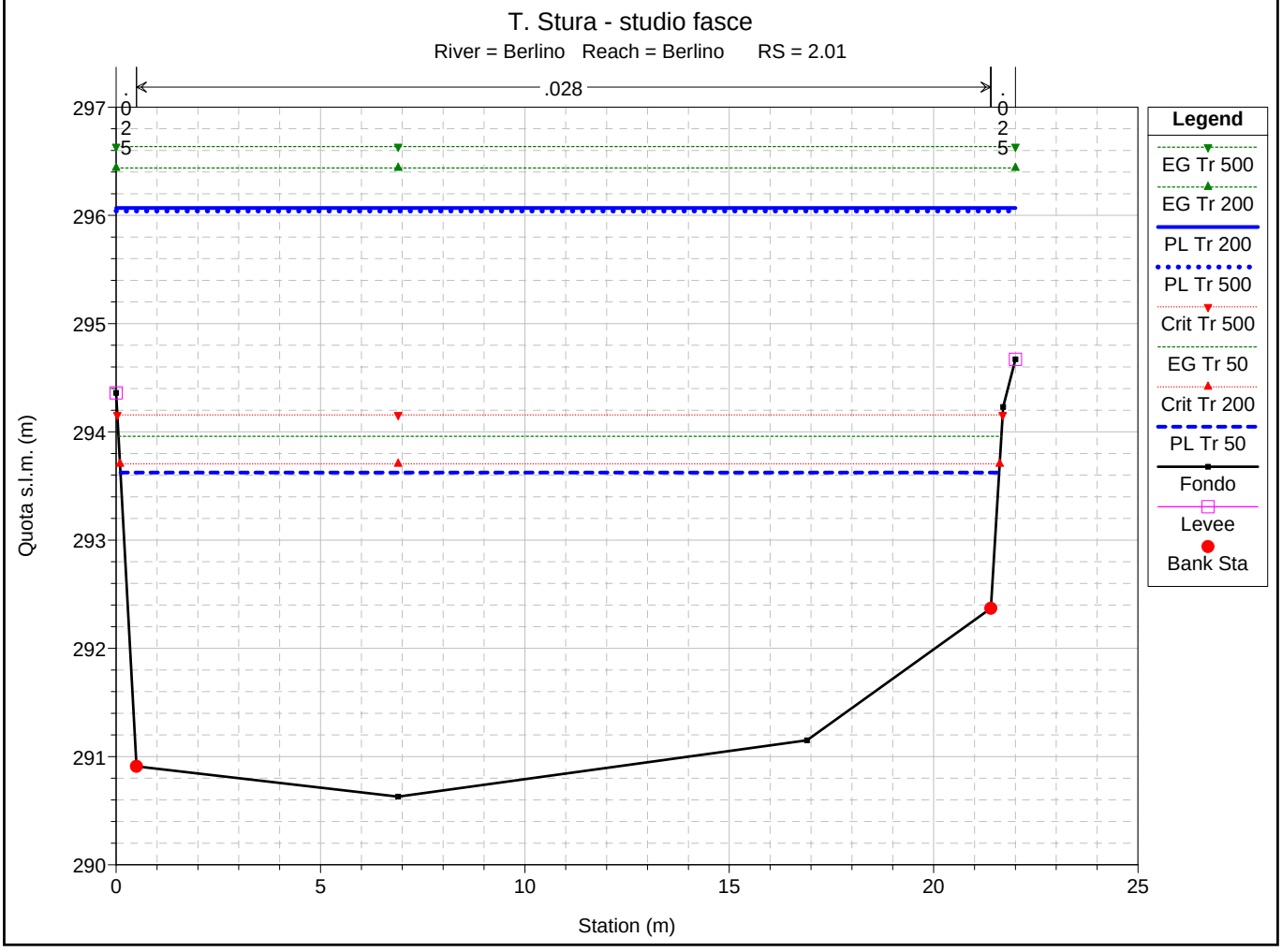

T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.027
.025
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.025
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.02 BR
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.02 BR
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.015
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Berlino Reach = Berlino RS = 2.01
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 200
PL Tr 500
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 50
Fondo
Levee
Bank Sta

HEC-RAS Plan: Berlino River: Berlino Reach: Berlino

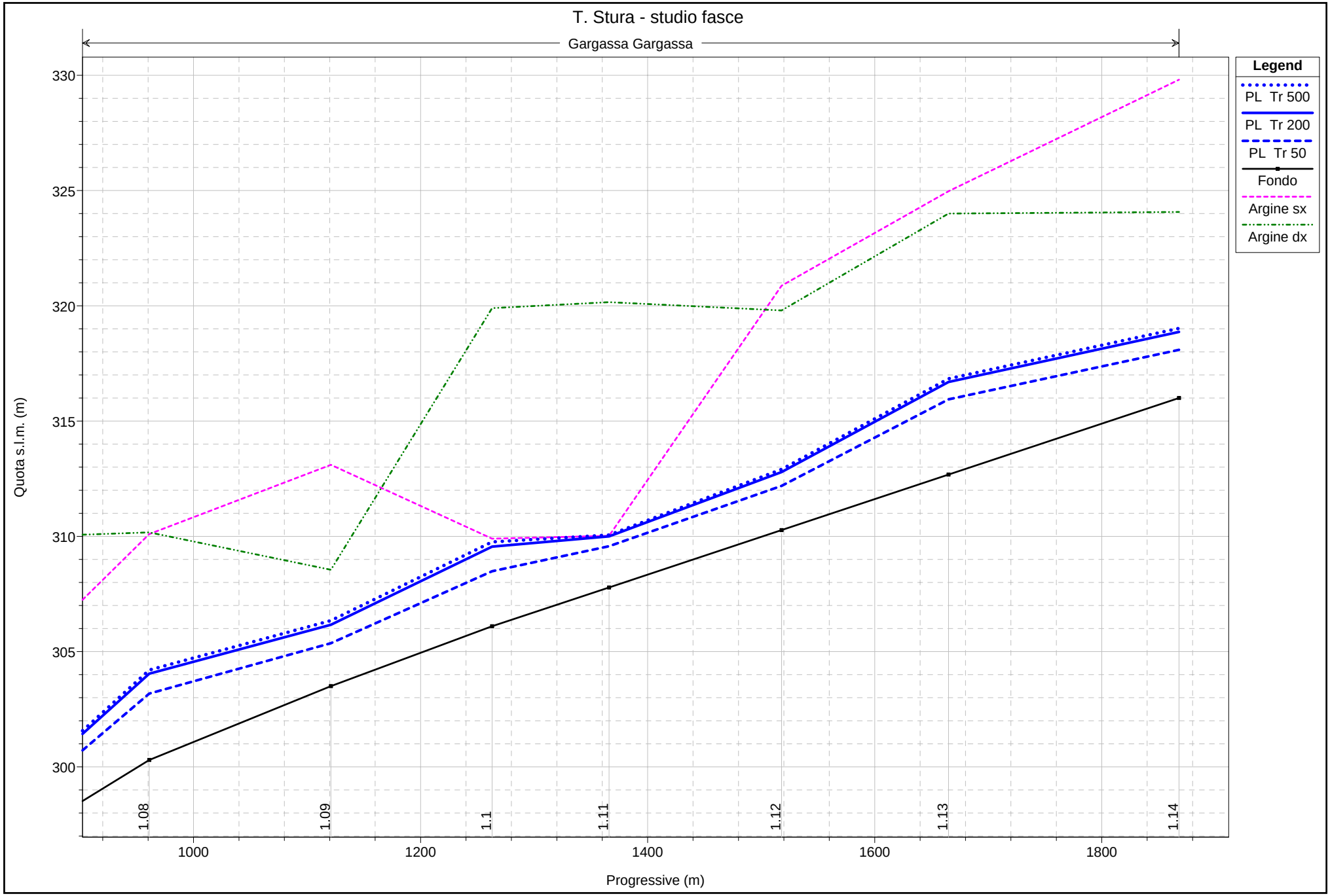
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Berlino	2.18	Tr 50	139.00	333.20	335.03	335.07	0.04	334.63	-0.40	335.26	336.01	0.014019	4.40	31.69	27.31	1.29
Berlino	2.18	Tr 200	285.00	333.20	335.66	335.07	-0.59	334.63	-1.03	336.13	337.37	0.014006	5.82	49.84	30.04	1.38
Berlino	2.18	Tr 500	360.00	333.20	335.93	335.07	-0.85	334.63	-1.30	336.51	337.97	0.014006	6.38	57.93	31.14	1.41
Berlino	2.17	Tr 50	139.00	329.40	330.49	334.97	4.48	334.79	4.30	331.18	332.84	0.052048	6.79	20.46	23.98	2.35
Berlino	2.17	Tr 200	285.00	329.40	331.07	334.97	3.90	334.79	3.72	332.05	334.37	0.043241	8.05	35.40	27.87	2.28
Berlino	2.17	Tr 500	360.00	329.40	331.31	334.97	3.66	334.79	3.48	332.41	335.00	0.041316	8.52	42.25	29.48	2.27
Berlino	2.16	Tr 50	139.00	326.56	328.59	327.71	-0.88	327.90	-0.69	329.00	329.84	0.014028	5.29	31.37	34.36	1.34
Berlino	2.16	Tr 200	285.00	326.56	329.09	327.71	-1.38	327.90	-1.19	329.80	331.13	0.017334	7.07	50.67	42.34	1.56
Berlino	2.16	Tr 500	360.00	326.56	329.28	327.71	-1.57	327.90	-1.38	330.05	331.68	0.018643	7.77	59.01	45.35	1.64
Berlino	2.15	Tr 50	139.00	319.65	322.84	323.80	0.96	323.80	0.96	323.54	324.97	0.023088	6.46	21.51	13.47	1.63
Berlino	2.15	Tr 200	285.00	319.65	324.05	323.80	-0.25	323.80	-0.25	325.00	326.53	0.016430	6.99	41.49	24.57	1.47
Berlino	2.15	Tr 500	360.00	319.65	324.42	323.80	-0.62	323.80	-0.62	325.34	327.13	0.015068	7.40	52.60	33.25	1.44
Berlino	2.145	Tr 50	139.00	314.96	316.69	315.69	-1.00	316.86	0.18	317.49	319.41	0.040809	7.55	19.74	19.81	2.19
Berlino	2.145	Tr 200	285.00	314.96	317.23	315.69	-1.54	316.86	-0.37	318.47	321.69	0.044156	9.84	32.03	24.94	2.41
Berlino	2.145	Tr 500	360.00	314.96	317.47	315.69	-1.78	316.86	-0.61	318.86	322.55	0.042935	10.59	38.23	27.13	2.43
Berlino	2.14	Tr 50	139.00	313.46	315.65	315.69	0.04	316.86	1.21	316.79	319.31	0.047223	8.47	16.40	11.95	2.31
Berlino	2.14	Tr 200	285.00	313.46	316.51	315.69	-0.82	316.86	0.35	317.99	321.63	0.041496	10.14	29.36	18.65	2.30
Berlino	2.14	Tr 500	360.00	313.46	316.82	315.69	-1.13	316.86	0.04	318.45	322.49	0.040687	10.76	35.66	21.19	2.31
Berlino	2.13	Tr 50	139.00	310.19	312.88	315.05	2.17	316.12	3.24	311.78	313.10	0.001384	2.09	66.57	28.60	0.44
Berlino	2.13	Tr 200	285.00	310.19	314.58	315.05	0.47	316.12	1.54	312.71	314.87	0.001068	2.37	120.34	34.62	0.41
Berlino	2.13	Tr 500	360.00	310.19	315.24	315.05	-0.19	316.12	0.88	313.11	315.56	0.001024	2.50	143.94	37.11	0.40
Berlino	2.12	Tr 50	139.00	308.87	311.77	315.18	3.41	315.45	3.68	311.77	312.81	0.008425	4.52	30.76	14.72	1.00
Berlino	2.12	Tr 200	285.00	308.87	313.17	315.18	2.01	315.45	2.28	313.17	314.58	0.007769	5.27	54.04	19.00	1.00
Berlino	2.12	Tr 500	360.00	308.87	313.75	315.18	1.43	315.45	1.70	313.75	315.27	0.007486	5.48	65.74	21.39	1.00
Berlino	2.11	Tr 50	139.00	307.02	308.74	308.35	-0.39	307.70	-1.04	309.50	311.19	0.028307	7.02	21.30	23.61	1.87
Berlino	2.11	Tr 200	285.00	307.02	309.31	308.35	-0.96	307.70	-1.61	310.33	312.93	0.029983	9.01	38.01	33.48	2.04
Berlino	2.11	Tr 500	360.00	307.02	309.51	308.35	-1.16	307.70	-1.81	310.61	313.61	0.030776	9.74	45.04	35.02	2.10
Berlino	2.10	Tr 50	139.00	306.39	307.80	309.70	1.90	310.45	2.65	308.53	310.25	0.025667	6.92	20.08	14.39	1.87
Berlino	2.10	Tr 200	285.00	306.39	308.97	309.70	0.73	310.45	1.48	310.28	311.98	0.016598	7.68	37.10	14.71	1.54
Berlino	2.10	Tr 500	360.00	306.39	309.69	309.70	0.01	310.45	0.76	310.80	312.59	0.012587	7.54	47.74	14.91	1.34
Berlino	2.09	Tr 50	139.00	304.45	305.66	304.60	-1.06	304.75	-0.91	306.23	307.58	0.020430	6.14	22.68	20.43	1.86
Berlino	2.09	Tr 200	285.00	304.45	306.21	304.60	-1.61	304.75	-1.46	307.26	309.81	0.022356	8.41	34.02	20.50	2.08
Berlino	2.09	Tr 500	360.00	304.45	306.50	304.60	-1.90	304.75	-1.75	307.72	310.69	0.021148	9.08	39.83	20.54	2.08
Berlino	2.08	Tr 50	139.00	304.45	306.23	304.60	-1.63	304.75	-1.48	306.23	307.07	0.005118	4.06	34.42	20.50	1.00
Berlino	2.08	Tr 200	285.00	304.45	306.66	304.60	-2.06	304.75	-1.91	307.26	308.90	0.010141	6.63	43.19	20.56	1.46
Berlino	2.08	Tr 500	360.00	304.45	306.91	304.60	-2.31	304.75	-2.16	307.72	309.77	0.011182	7.50	48.28	20.59	1.56

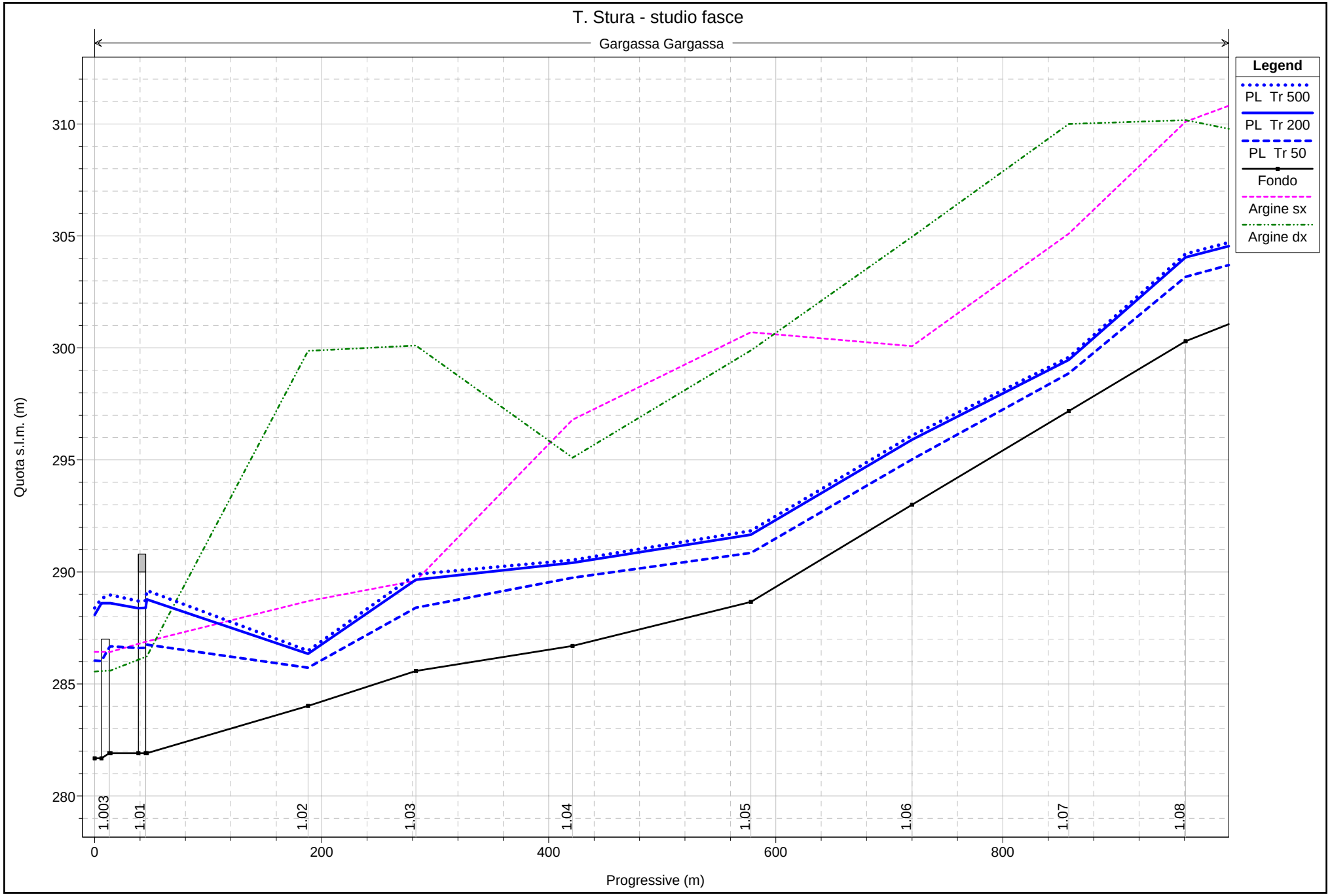
HEC-RAS Plan: Berlino River: Berlino Reach: Berlino (Continued)

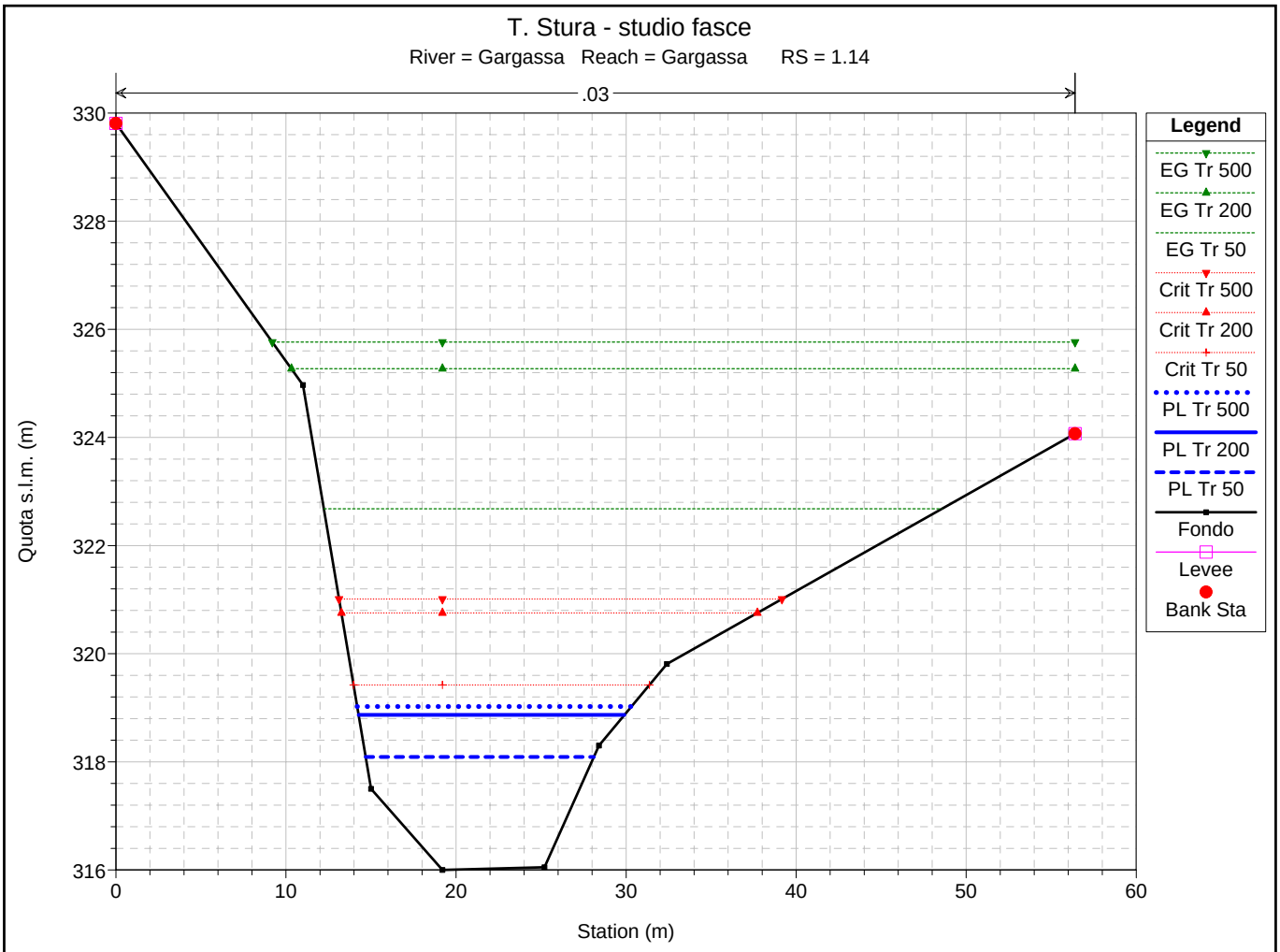
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Berlino	2.07	Tr 50	139.00	300.81	301.81	301.18	-0.63	301.25	-0.55	302.77	305.77	0.055369	8.82	15.78	17.42	2.95
Berlino	2.07	Tr 200	285.00	300.81	302.60	301.18	-1.42	301.25	-1.35	303.92	307.34	0.028688	9.65	29.69	17.57	2.36
Berlino	2.07	Tr 500	360.00	300.81	302.94	301.18	-1.76	301.25	-1.69	304.43	308.21	0.025116	10.18	35.61	17.64	2.27
Berlino	2.06	Tr 50	139.00	298.57	299.79	298.93	-0.86	298.93	-0.86	300.49	302.19	0.024512	6.88	20.34	17.85	2.04
Berlino	2.06	Tr 200	285.00	298.57	300.36	298.93	-1.43	298.93	-1.43	301.63	304.83	0.026552	9.38	30.72	18.09	2.28
Berlino	2.06	Tr 500	360.00	298.57	300.63	298.93	-1.70	298.93	-1.70	302.13	305.96	0.026072	10.24	35.63	18.20	2.31
Berlino	2.05	Tr 50	139.00	296.21	297.37	296.48	-0.89	296.43	-0.94	298.09	299.84	0.026515	6.97	20.02	18.18	2.11
Berlino	2.05	Tr 200	285.00	296.21	297.96	296.48	-1.48	296.43	-1.53	299.21	302.37	0.026668	9.30	30.84	18.30	2.28
Berlino	2.05	Tr 500	360.00	296.21	298.22	296.48	-1.74	296.43	-1.79	299.70	303.53	0.026688	10.21	35.52	18.35	2.33
Berlino	2.045	Tr 50	139.00	293.31	294.54	296.72	2.18	293.31	-1.23	295.38	297.45	0.030067	7.55	18.40	15.00	2.18
Berlino	2.045	Tr 200	285.00	293.31	295.28	296.72	1.44	293.31	-1.97	296.64	300.05	0.027995	9.68	29.45	15.01	2.21
Berlino	2.045	Tr 500	360.00	293.31	295.60	296.72	1.12	293.31	-2.29	297.20	301.23	0.027681	10.51	34.25	15.01	2.22
Berlino	2.04		Bridge													
Berlino	2.037	Tr 50	139.00	293.30	294.61	296.72	2.11	293.30	-1.31	295.37	297.16	0.024280	7.07	19.66	15.00	1.97
Berlino	2.037	Tr 200	285.00	293.30	295.38	296.72	1.34	293.30	-2.08	296.64	299.65	0.023471	9.16	31.12	15.01	2.03
Berlino	2.037	Tr 500	360.00	293.30	295.72	296.72	1.00	293.30	-2.42	297.20	300.75	0.023151	9.94	36.24	15.01	2.04
Berlino	2.033	Tr 50	139.00	292.90	294.07	296.40	2.33	293.32	-0.75	294.82	296.67	0.030586	7.14	19.47	18.10	2.20
Berlino	2.033	Tr 200	285.00	292.90	294.67	296.40	1.73	293.32	-1.35	295.93	299.16	0.030399	9.38	30.39	18.10	2.31
Berlino	2.033	Tr 500	360.00	292.90	294.94	296.40	1.46	293.32	-1.62	296.43	300.25	0.030040	10.20	35.28	18.11	2.33
Berlino	2.03		Bridge													
Berlino	2.027	Tr 50	139.00	292.90	294.20	296.40	2.20	293.32	-0.88	294.82	296.26	0.020908	6.35	21.88	18.10	1.84
Berlino	2.027	Tr 200	285.00	292.90	294.80	296.40	1.60	293.32	-1.48	295.93	298.69	0.024271	8.74	32.60	18.10	2.08
Berlino	2.027	Tr 500	360.00	292.90	295.07	296.40	1.33	293.32	-1.75	296.43	299.77	0.024748	9.60	37.49	18.11	2.13
Berlino	2.025	Tr 50	139.00	291.51	293.49	298.28	4.79	291.79	-1.70	293.32	294.19	0.005268	3.72	37.36	20.10	0.87
Berlino	2.025	Tr 200	285.00	291.51	295.99	298.28	2.29	291.79	-4.20	294.36	296.53	0.001487	3.25	87.78	20.11	0.50
Berlino	2.025	Tr 500	360.00	291.51	295.90	298.28	2.38	291.79	-4.11	294.83	296.80	0.002533	4.19	85.93	20.11	0.65
Berlino	2.02		Bridge													
Berlino	2.015	Tr 50	139.00	291.41	293.49	298.28	4.79	291.69	-1.80	293.22	294.12	0.004426	3.52	39.44	20.10	0.80
Berlino	2.015	Tr 200	285.00	291.41	296.00	298.28	2.28	291.69	-4.31	294.26	296.51	0.001382	3.17	89.87	20.11	0.48
Berlino	2.015	Tr 500	360.00	291.41	295.91	298.28	2.37	291.69	-4.22	294.73	296.76	0.002344	4.09	88.12	20.11	0.62
Berlino	2.01	Tr 50	139.00	290.63	293.62	290.91	-2.71	292.37	-1.25		293.96	0.001477	2.57	54.64	21.50	0.51
Berlino	2.01	Tr 200	285.00	290.63	296.07	290.91	-5.16	292.37	-3.70	293.70	296.44	0.000670	2.70	108.13	22.00	0.45
Berlino	2.01	Tr 500	360.00	290.63	296.04	290.91	-5.13	292.37	-3.67	294.16	296.64	0.001089	3.43	107.51	22.00	0.53

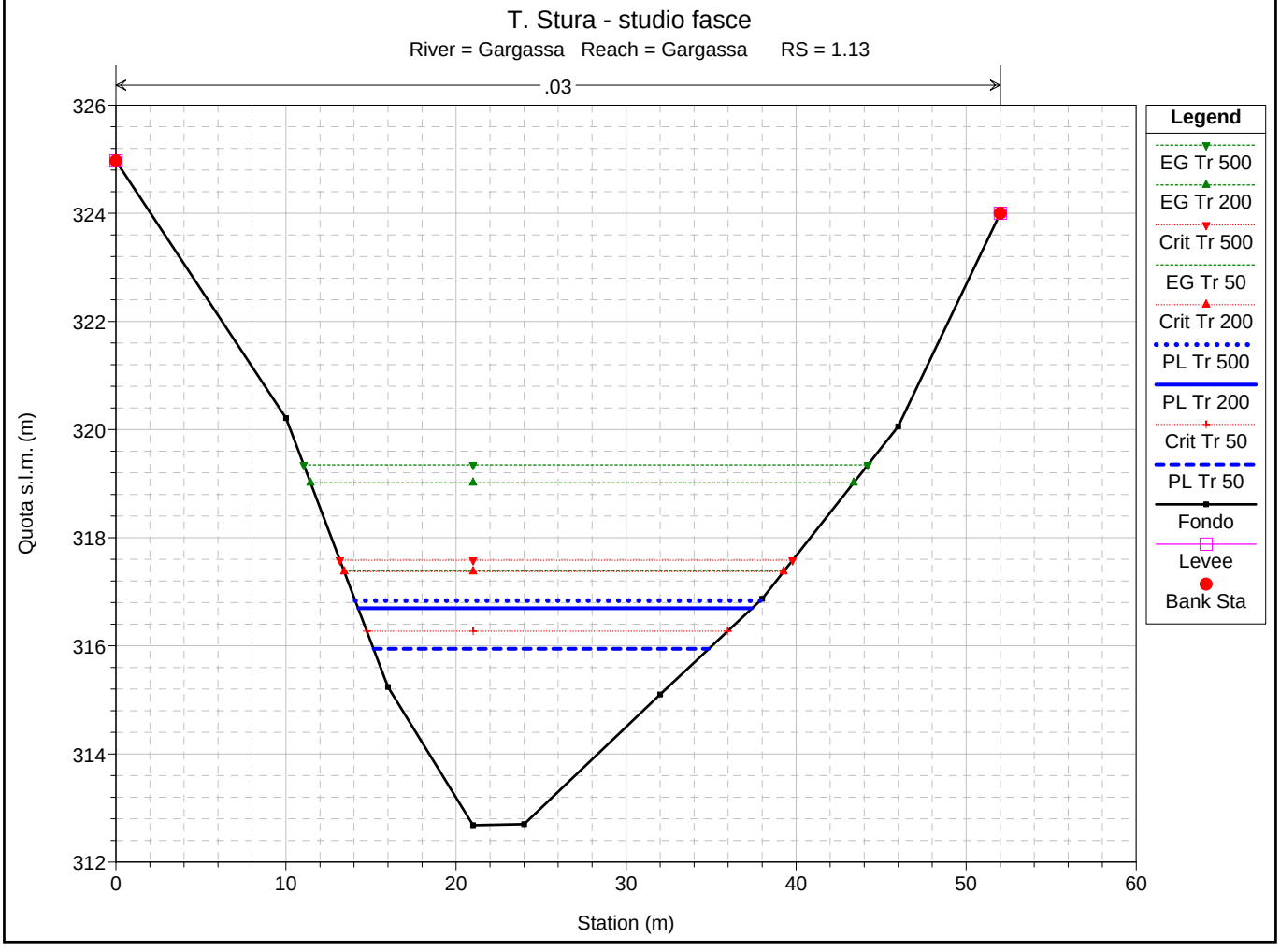
Torrente Gargassa

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati


T. Stura - studio fasce
Gargassa Gargassa
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine sx
Argine dx
Quota s.l.m. (m)
330
325
320
315
310
305
300
1.08
1.09
1.1
1.11
1.12
1.13
1.14
1000
1200
1400
1600
1800
Progressive (m)


T. Stura - studio fasce
Gargassa Gargassa
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Argine sx
Argine dx
Quota s.l.m. (m)
310
305
300
295
290
285
280
1.003
1.01
1.02
1.03
1.04
1.05
1.06
1.07
1.08
0
200
400
600
800
Progressive (m)


T. Stura - studio fasce
River = Gargassa Reach = Gargassa RS = 1.14
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta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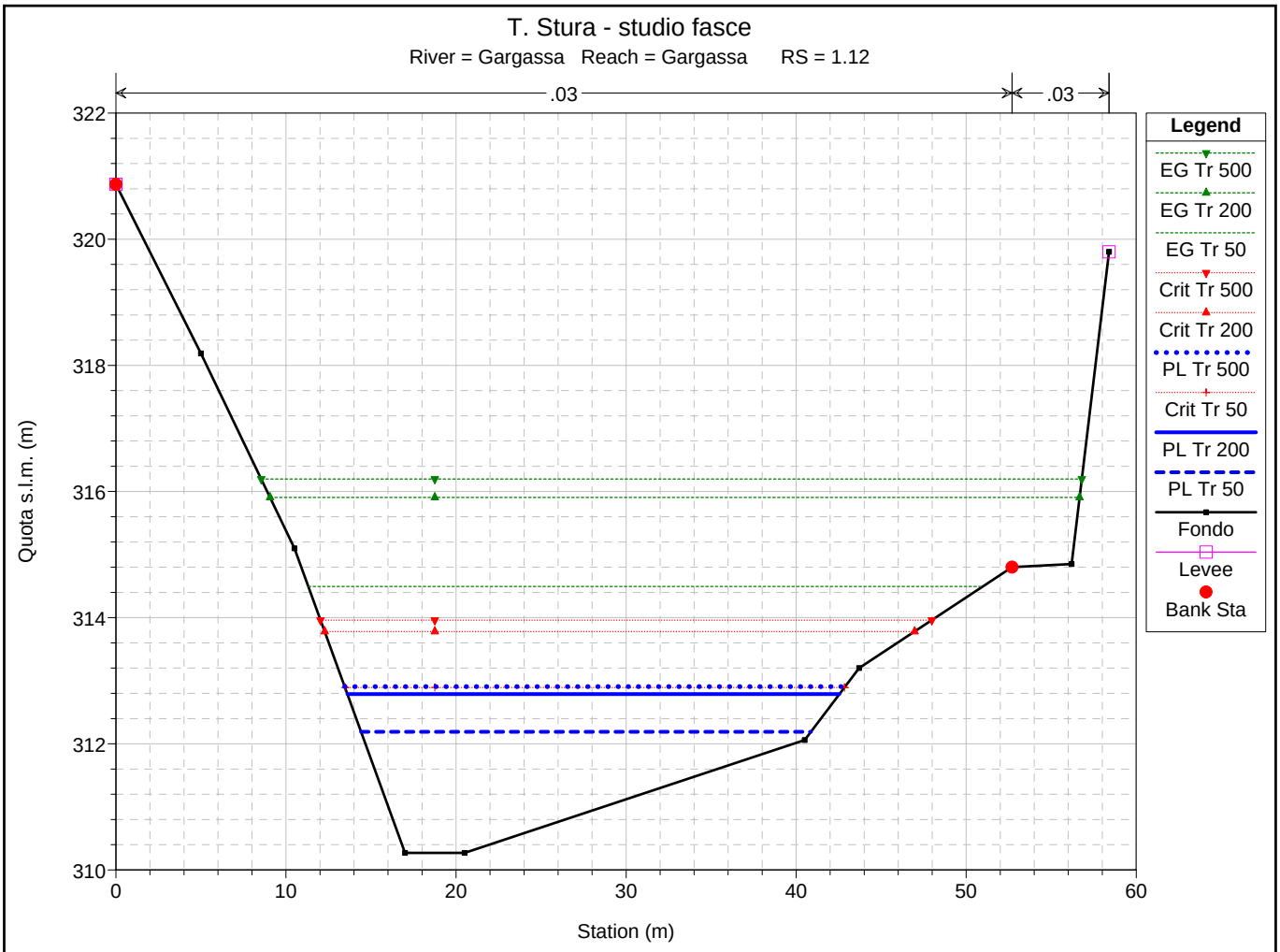
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta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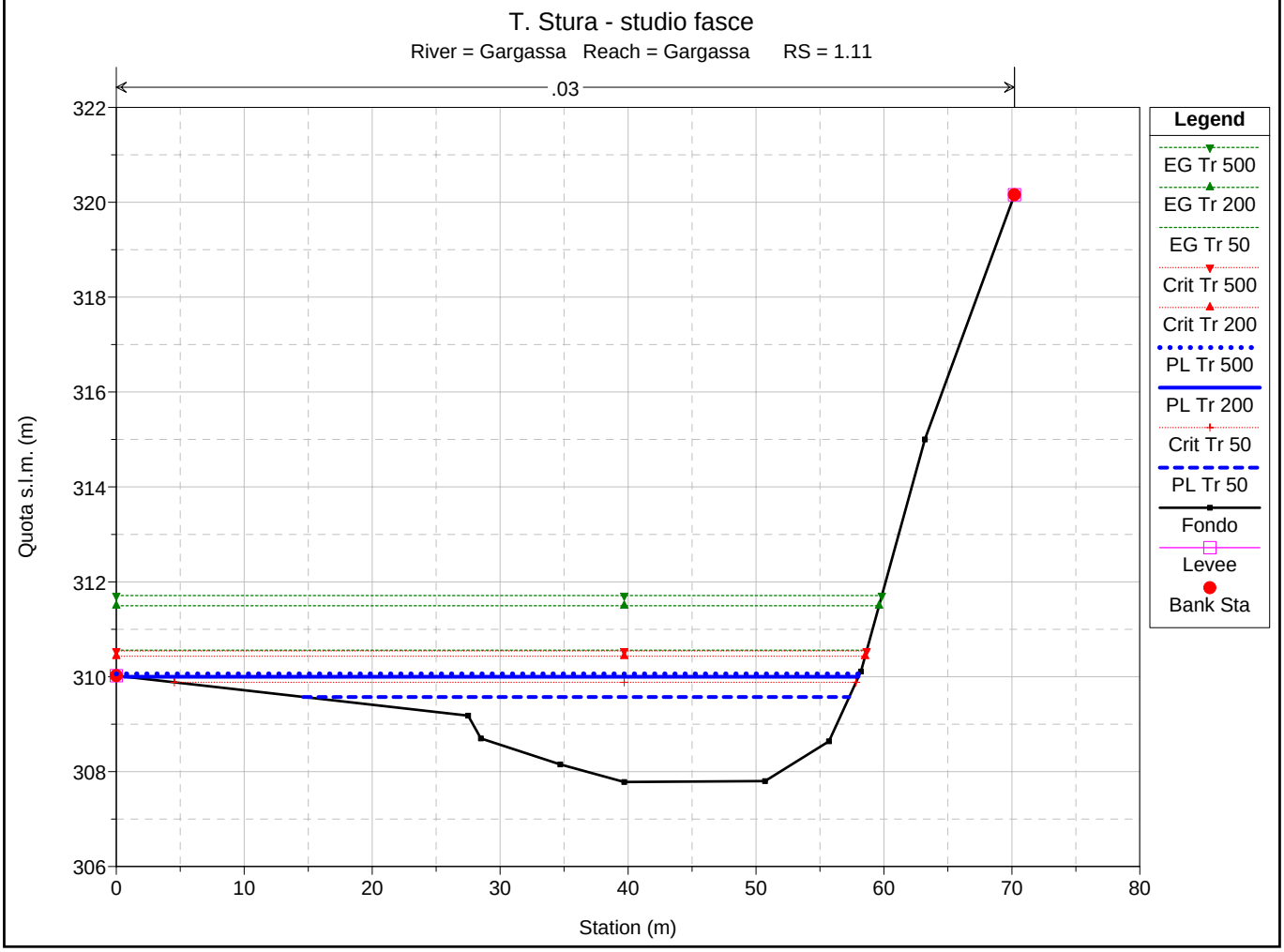
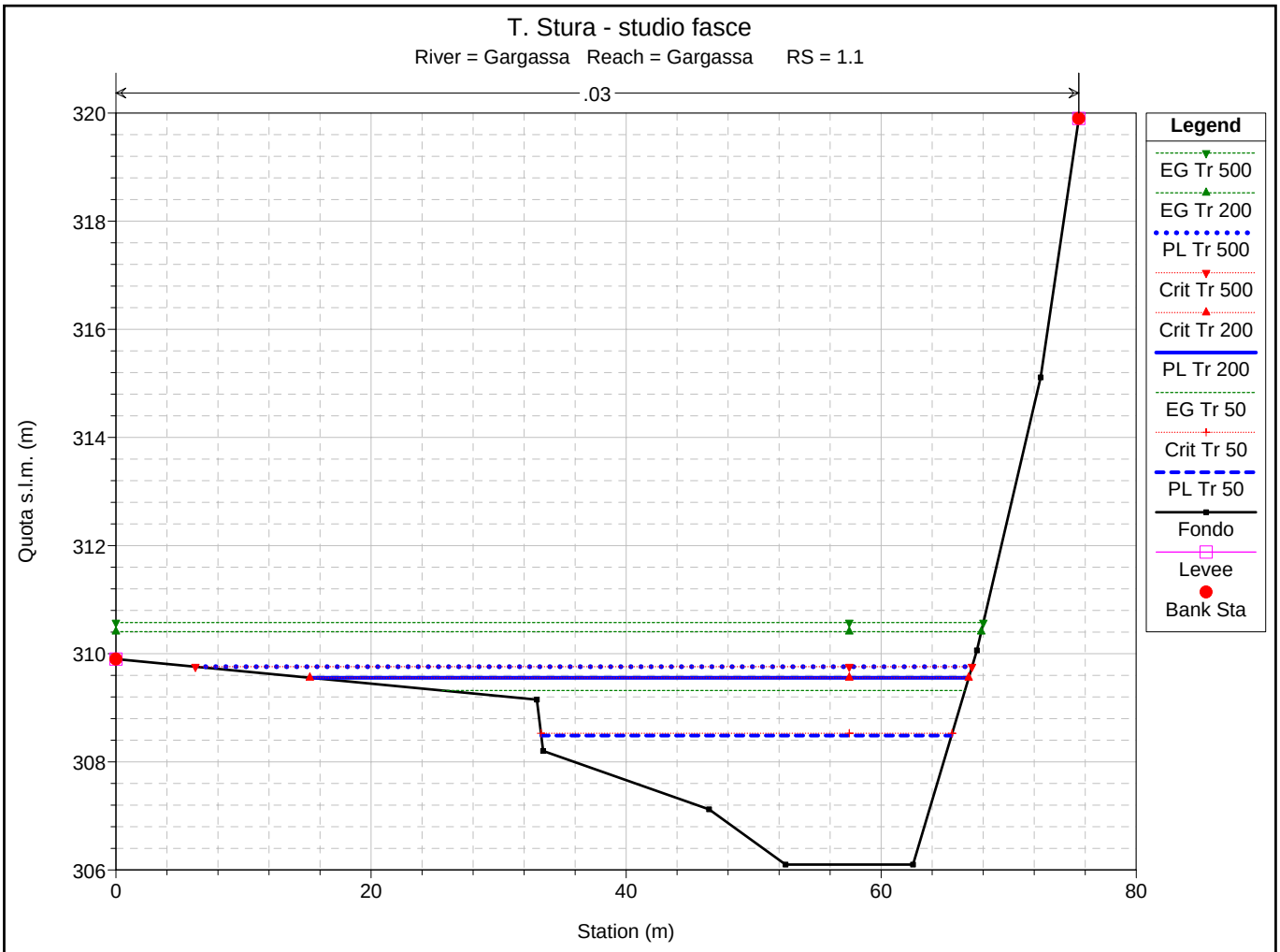
.03
.03
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)
322
320
318
316
314
312
310
0
10
20
30
40
50
60


T. Stura - studio fasce
River = Gargassa Reach = Gargassa RS = 1.11
.03
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)
322
320
318
316
314
312
310
308
306
0
10
20
30
40
50
60
70
80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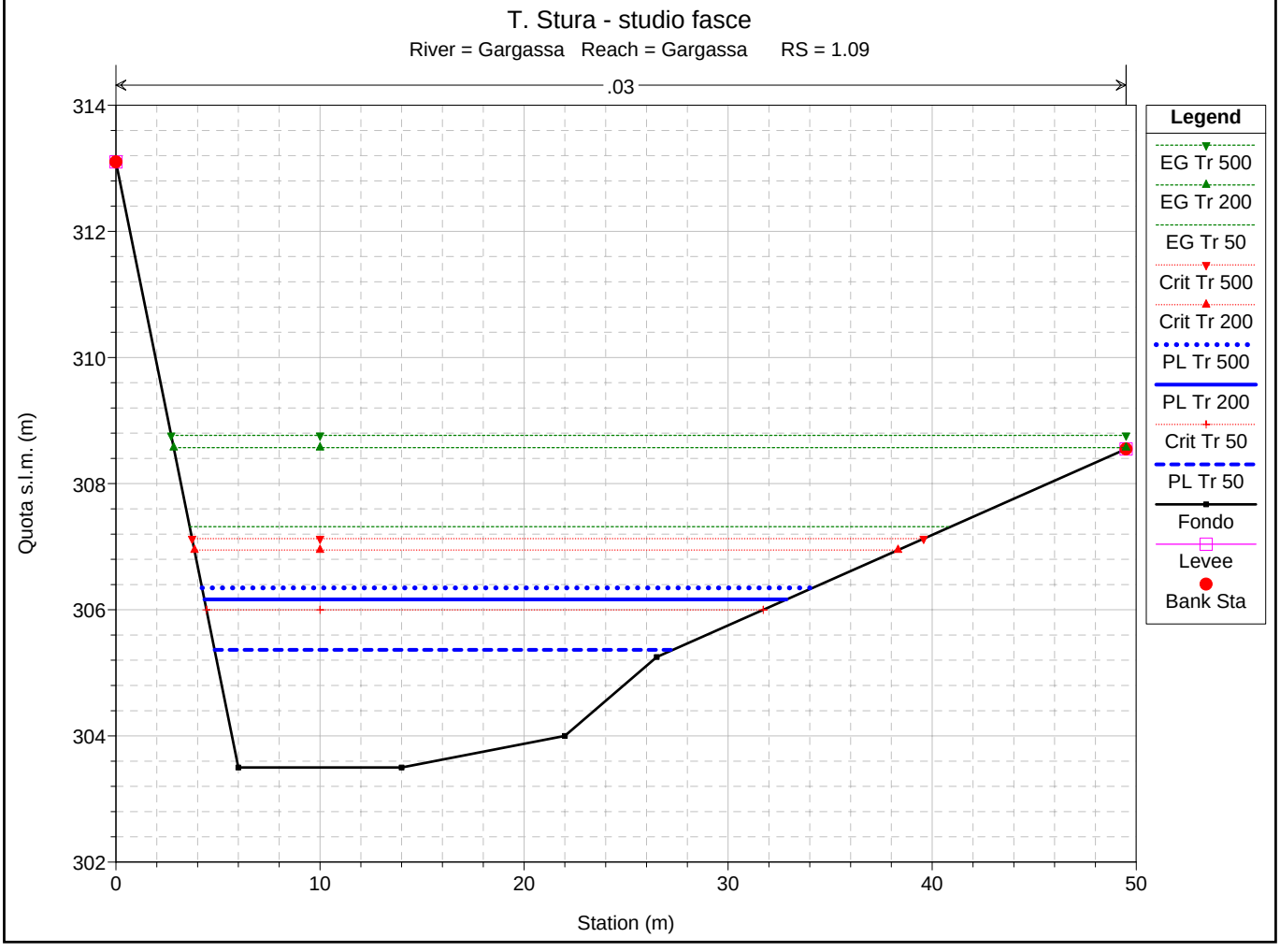
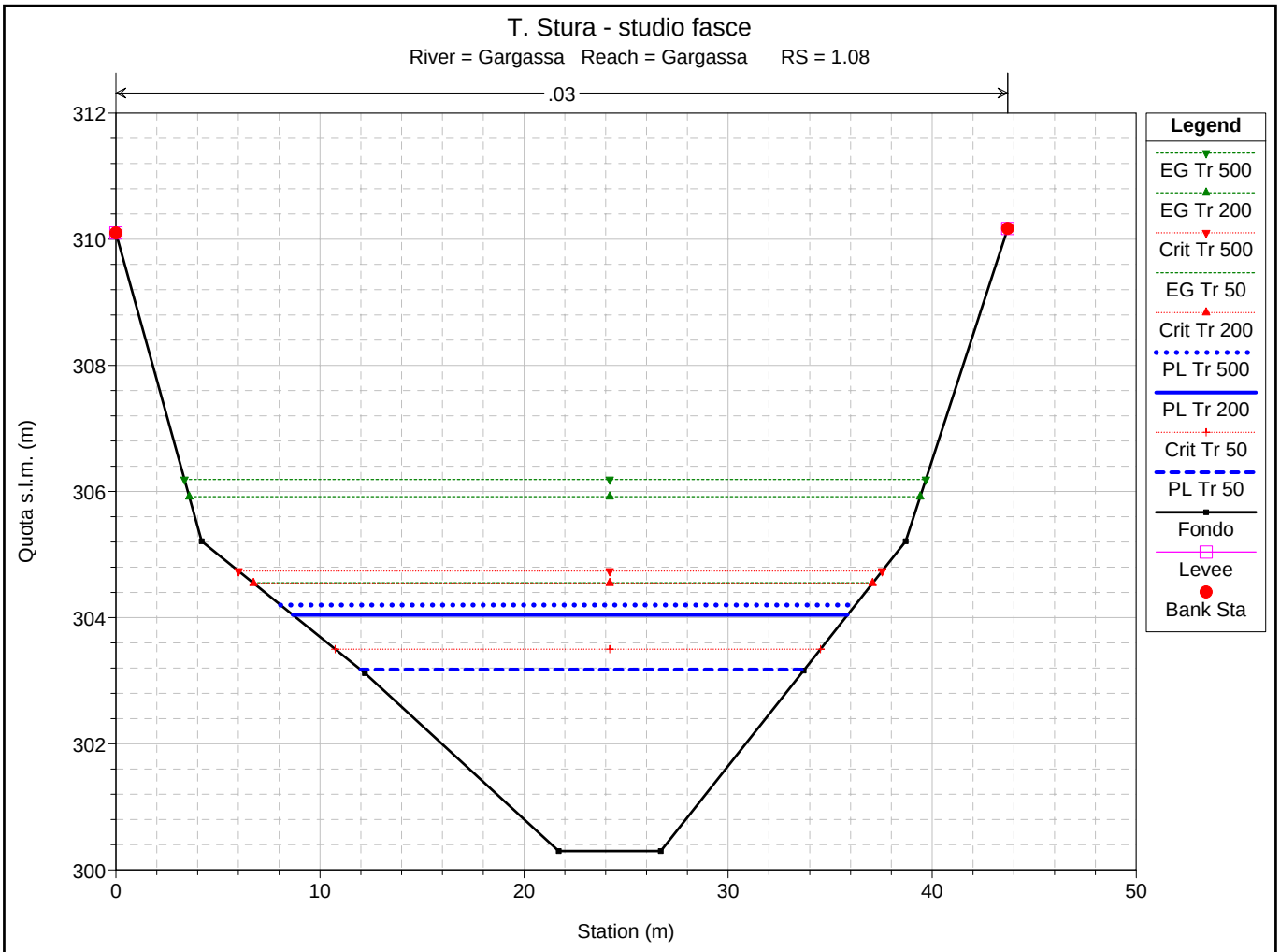
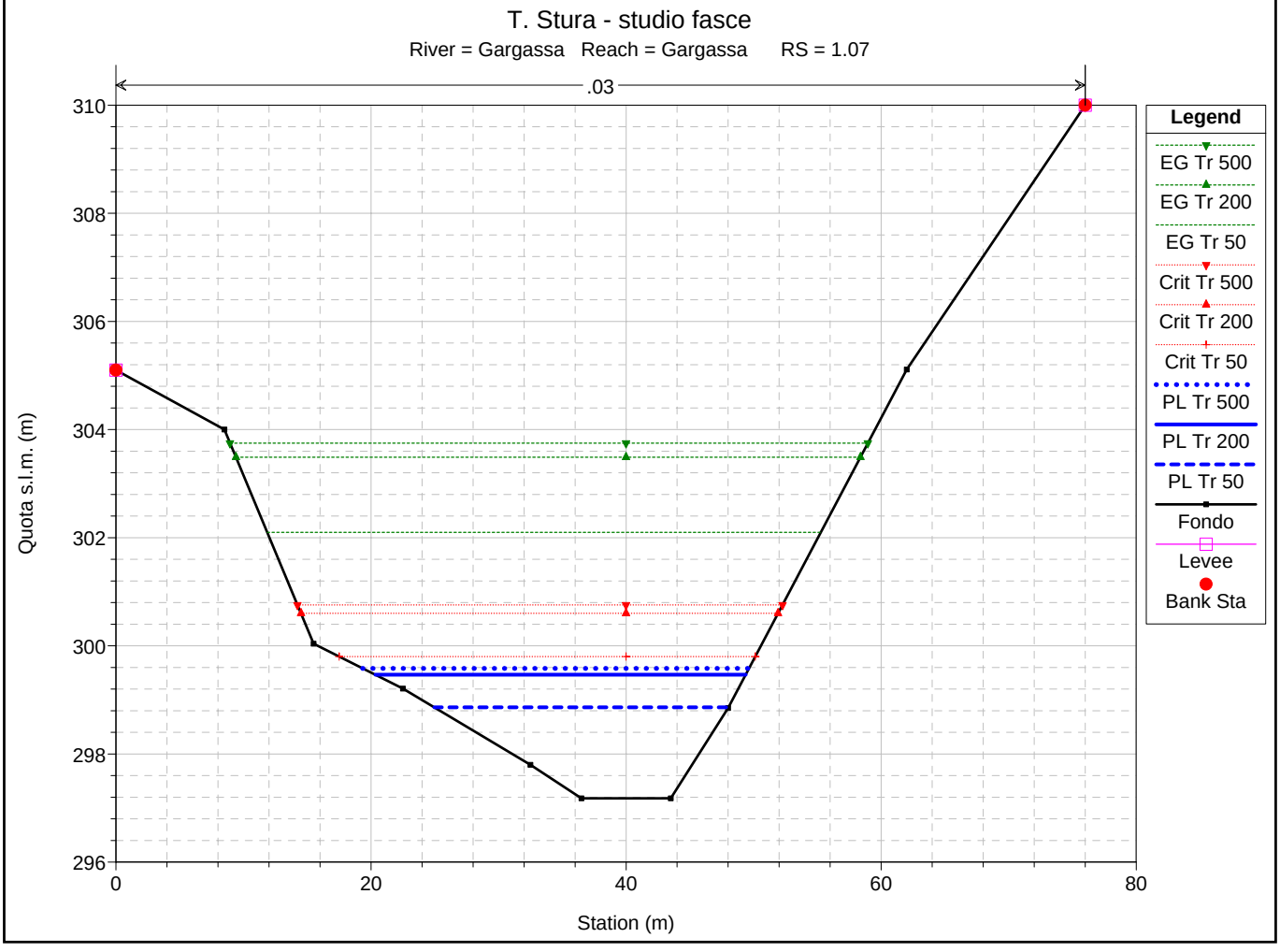
River = Gargassa Reach = Gargassa RS = 1.1
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Gargassa Reach = Gargassa RS = 1.09
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Gargassa Reach = Gargassa RS = 1.08
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
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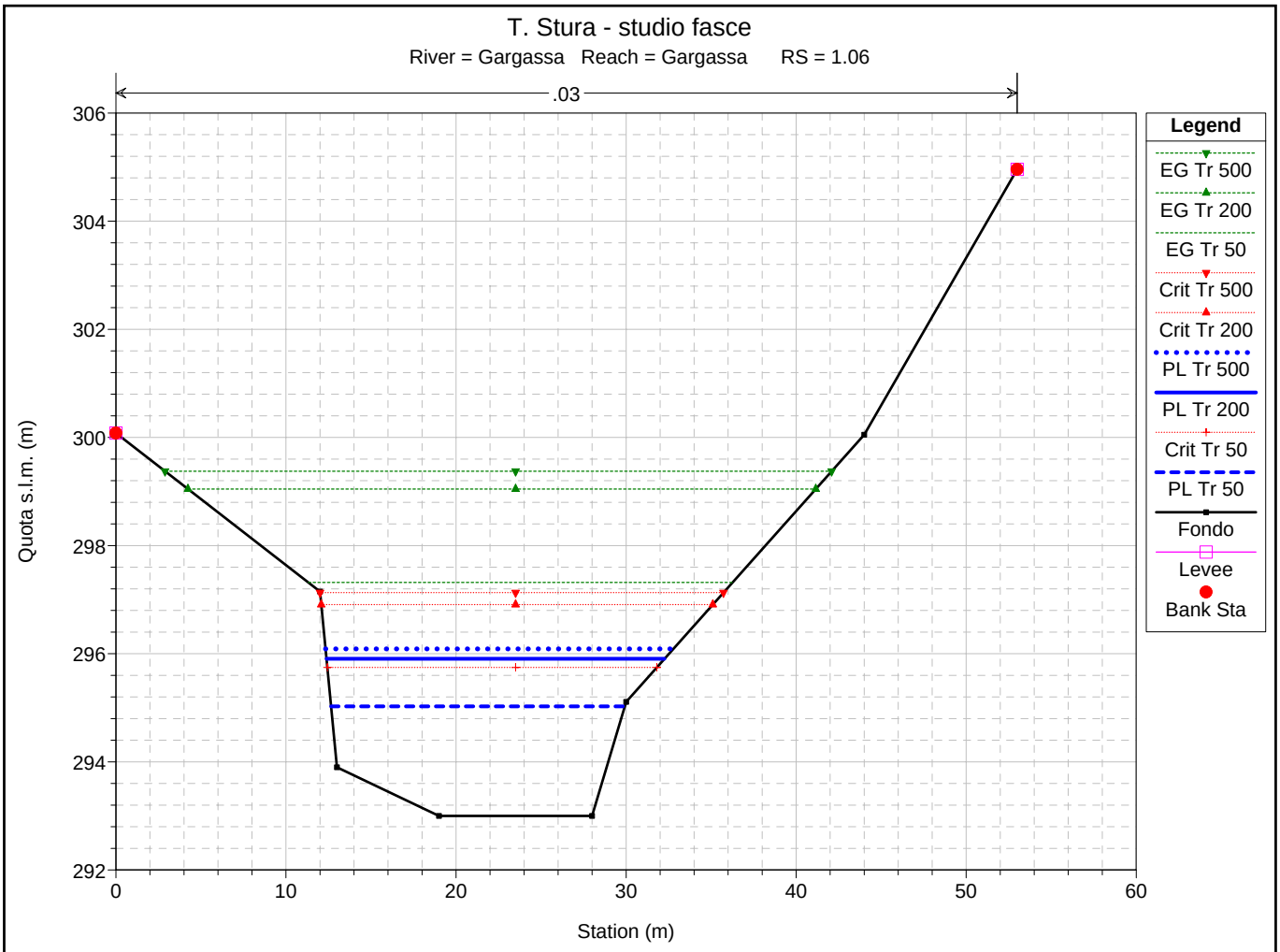
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta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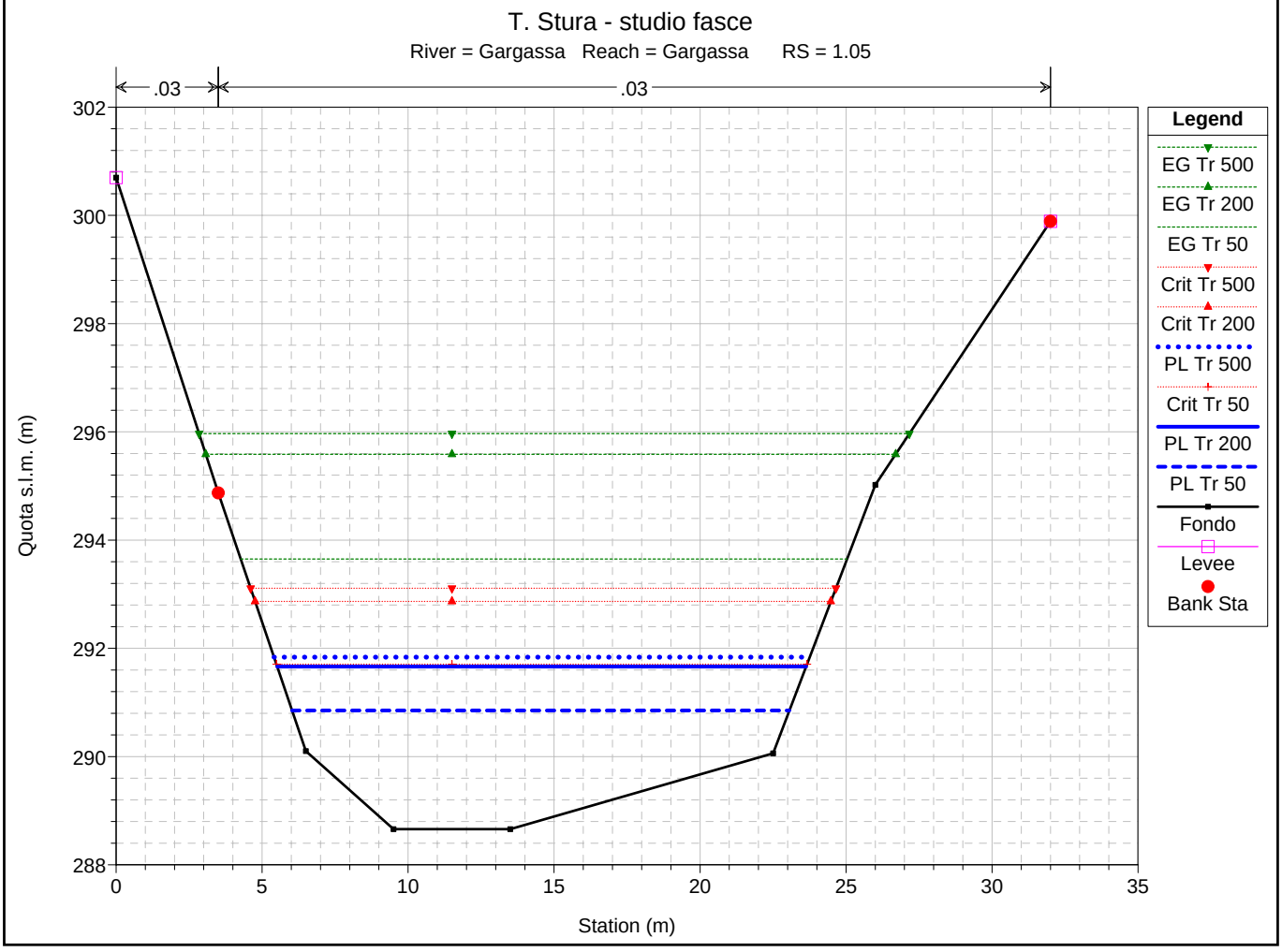
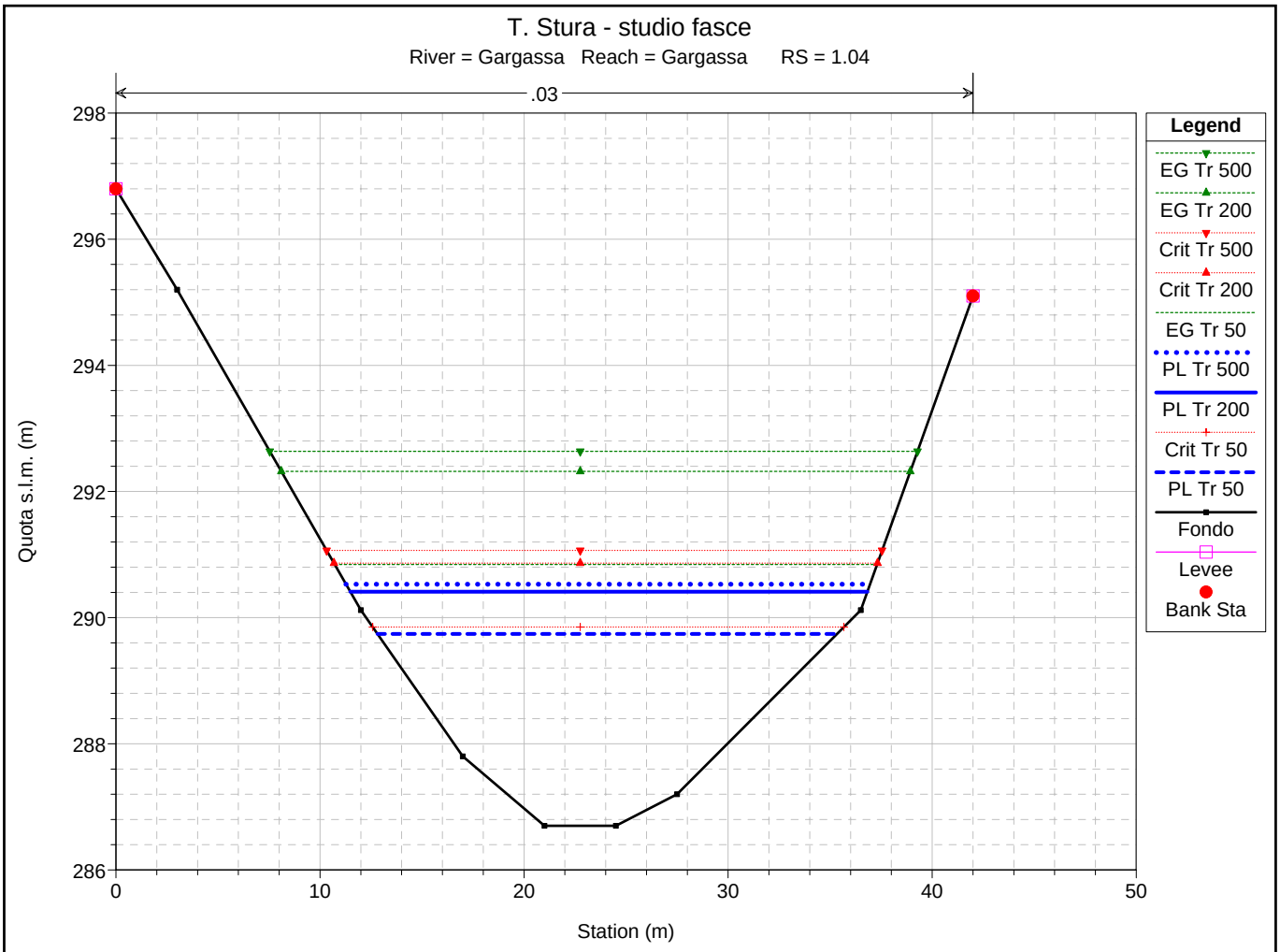
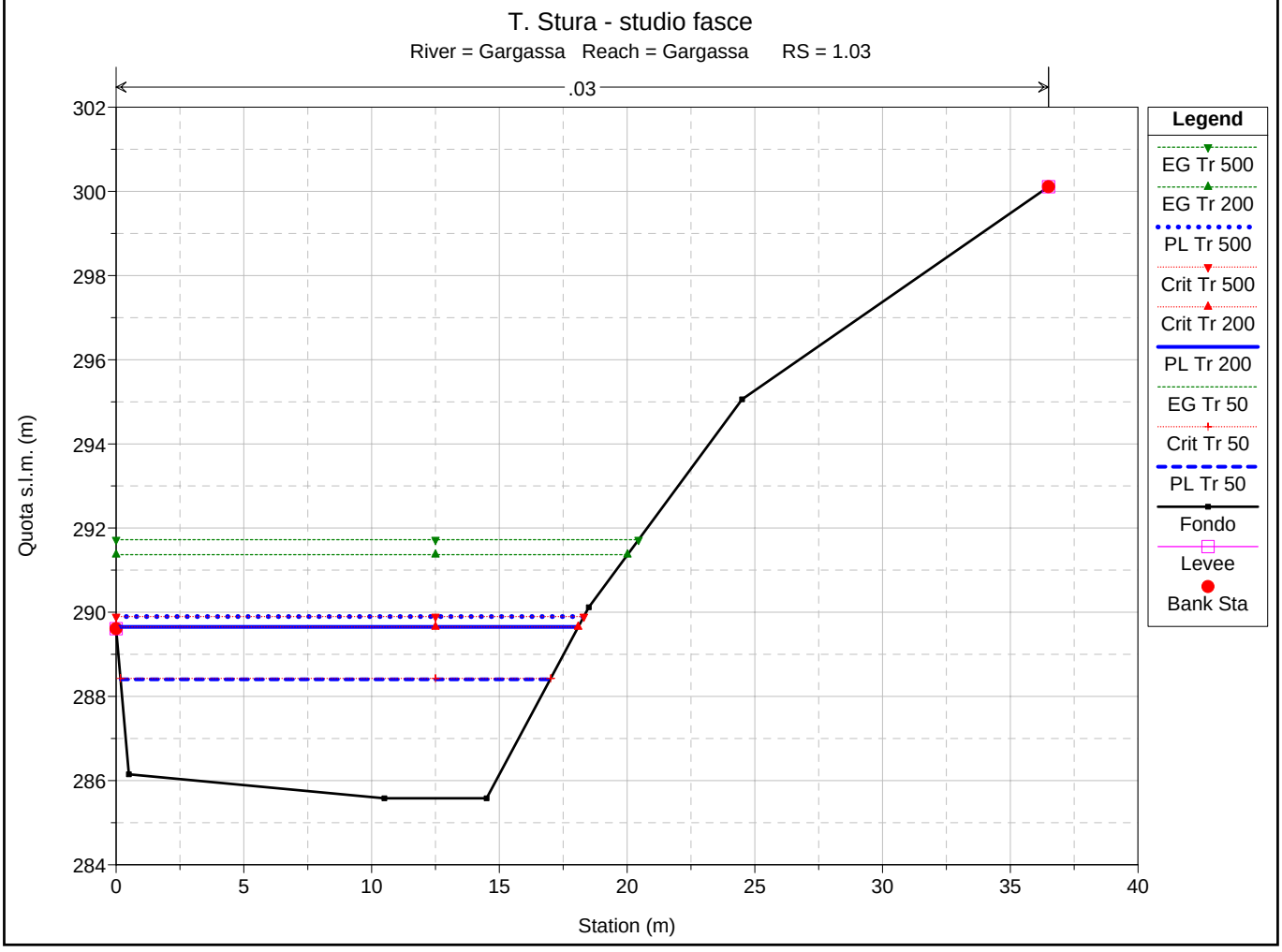
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Gargassa Reach = Gargassa RS = 1.05
.03
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Gargassa Reach = Gargassa RS = 1.04
.03
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
Crit Tr 500
Crit Tr 200
EG Tr 50
PL Tr 500
PL Tr 200
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Gargassa Reach = Gargassa RS = 1.03
.03
Quota s.l.m. (m)
Station (m)
Legend
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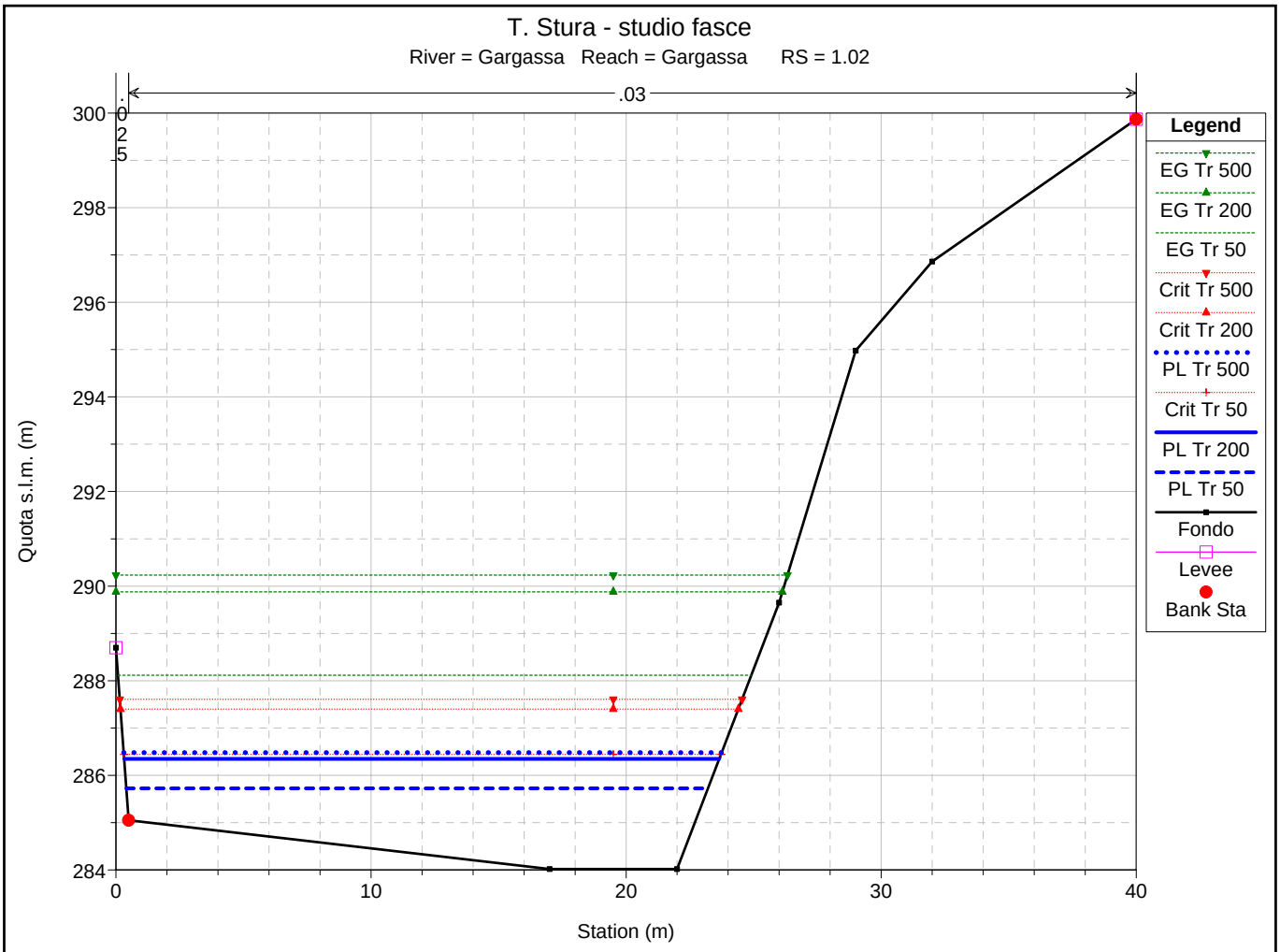
EG Tr 200
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
EG Tr 50
Crit Tr 50
PL Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Gargassa Reach = Gargassa RS = 1.02
.03
.025
Quota s.l.m. (m)
Station (m)
Legend
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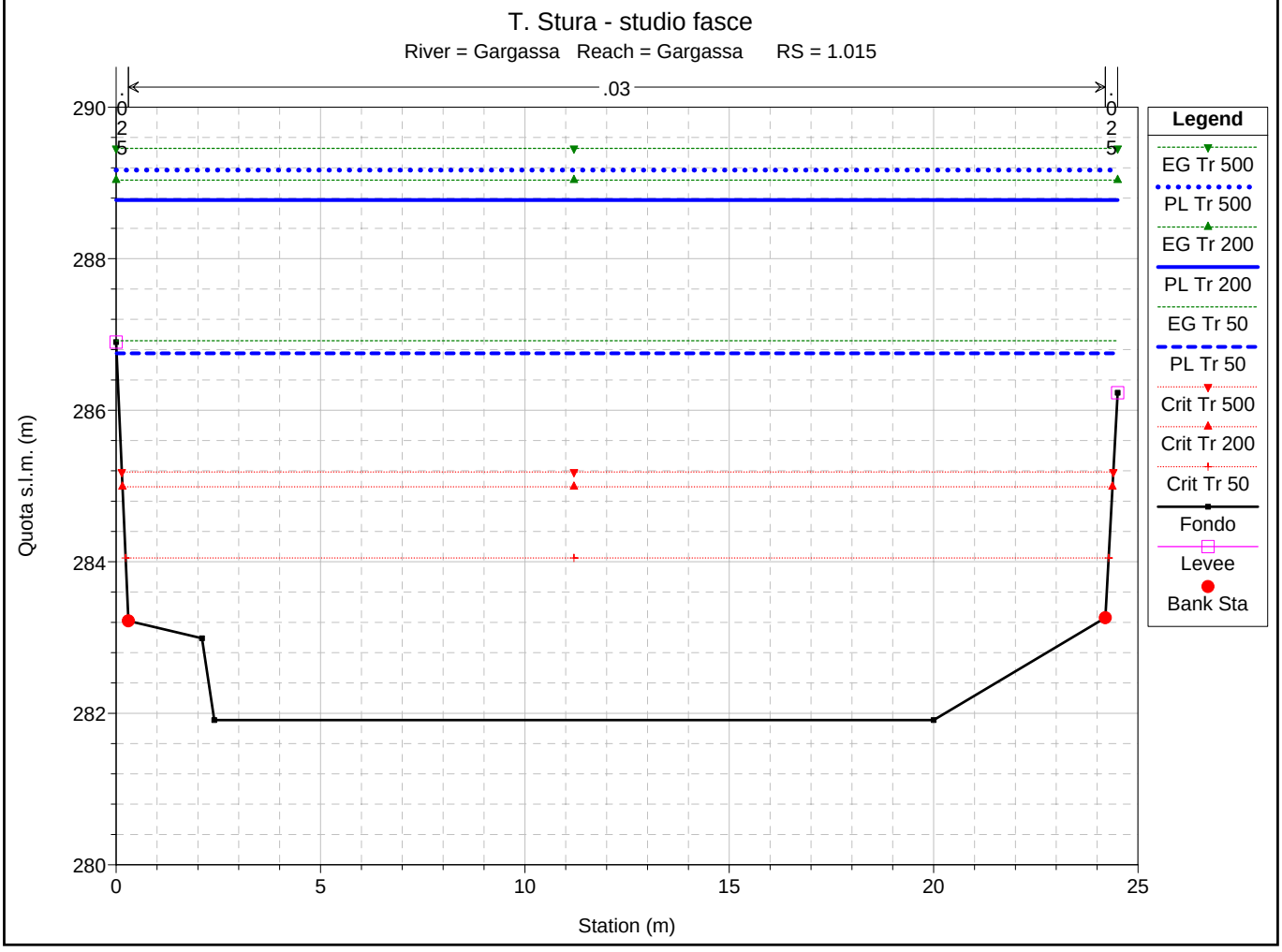
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Levee
Bank Sta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.03
.025
Quota s.l.m. (m)
Station (m)
Legend
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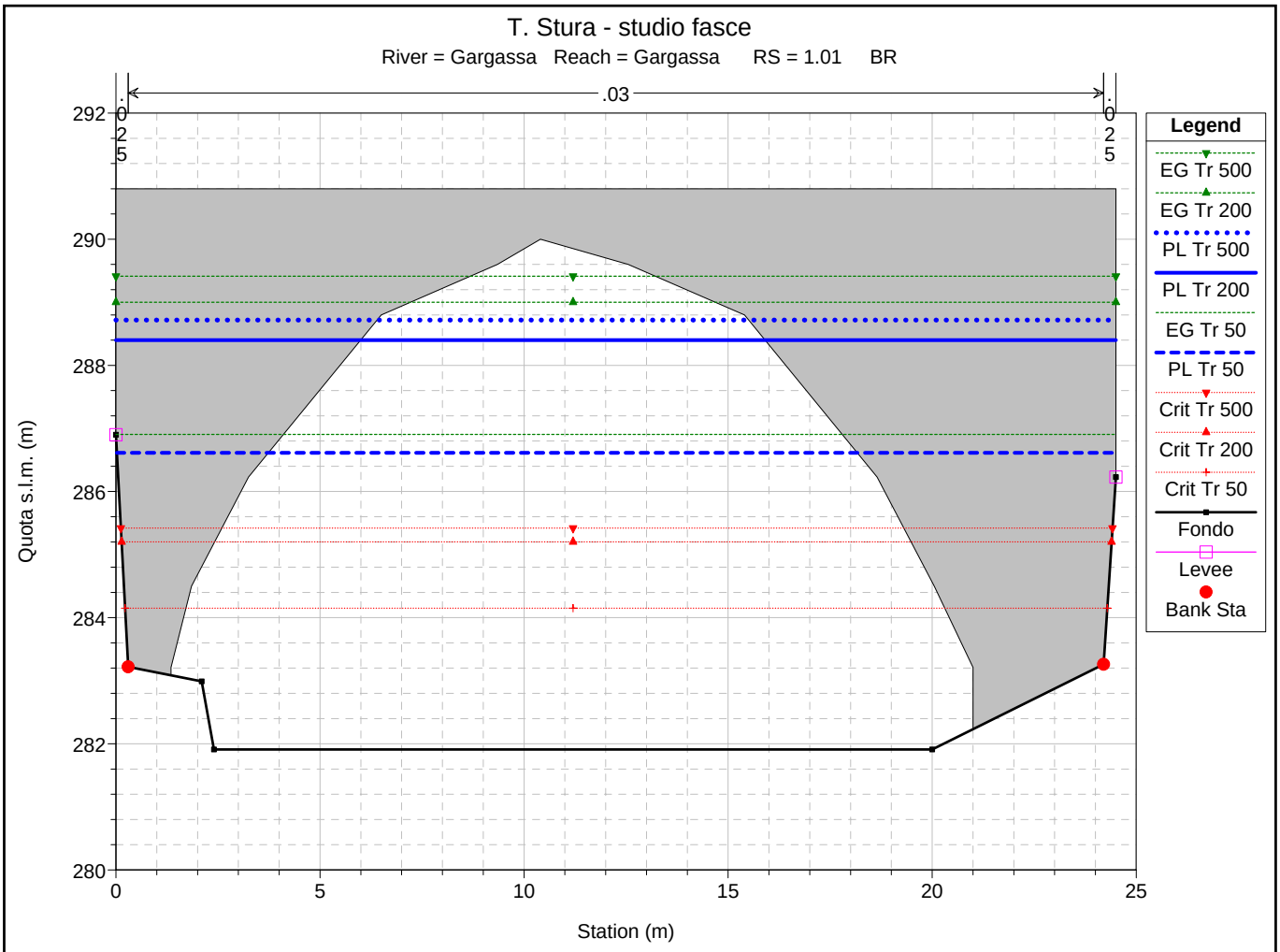
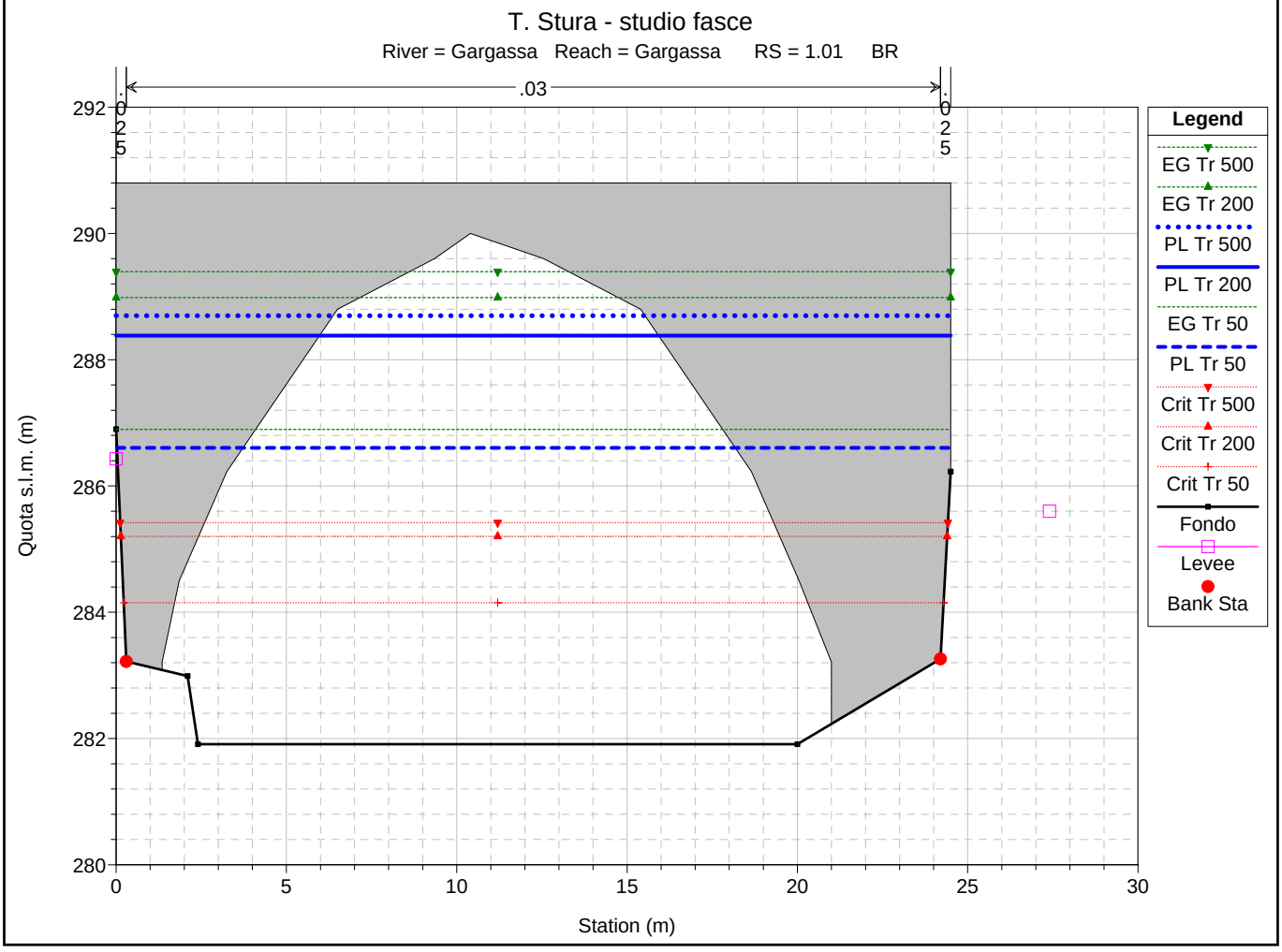
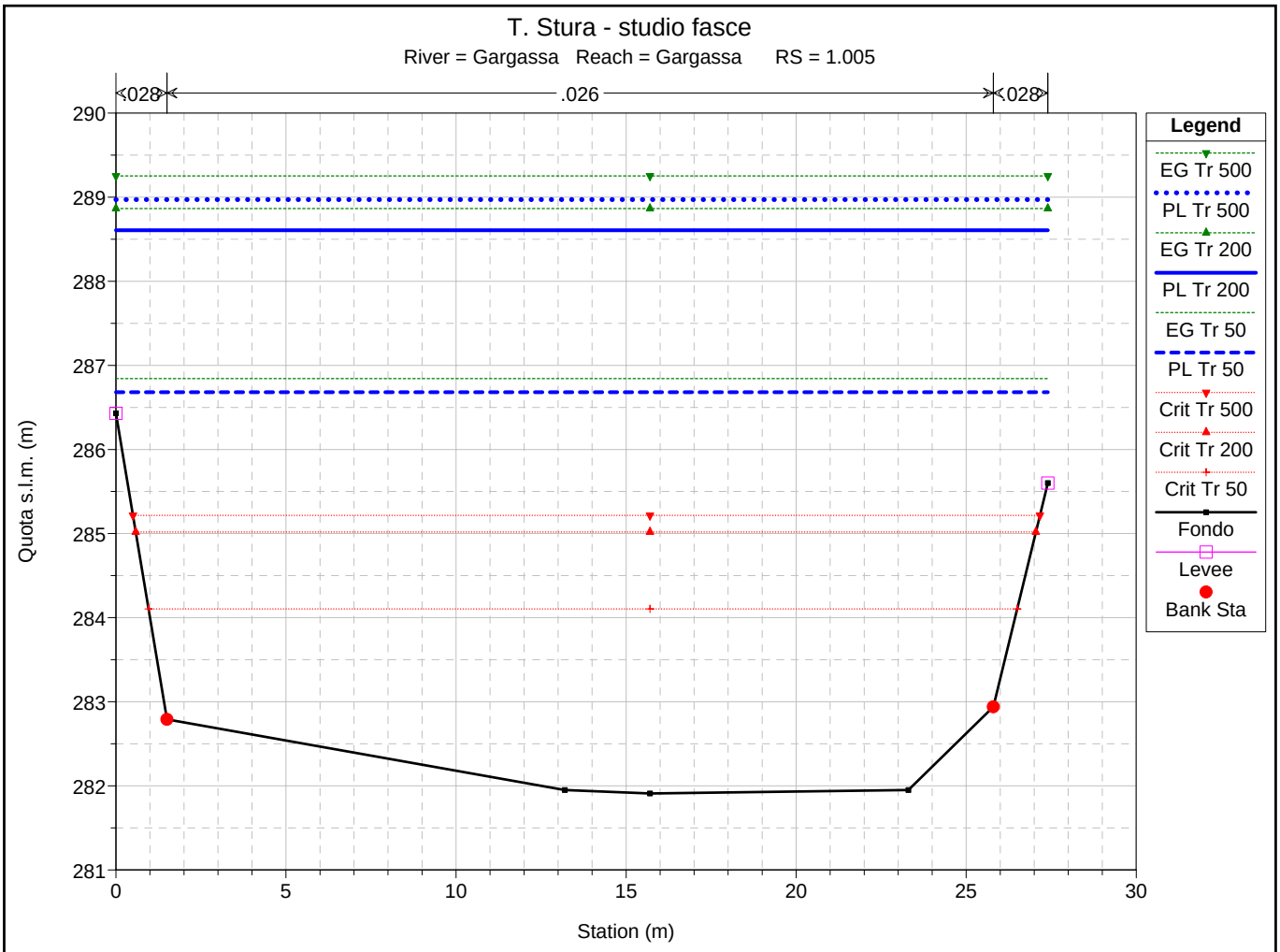
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Gargassa Reach = Gargassa RS = 1.01 BR
.03
.025
.025
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)
280
282
284
286
288
290
292
0
5
10
15
20
25


T. Stura - studio fasce
River = Gargassa Reach = Gargassa RS = 1.01 BR
.03
.025
.025
Legend
EG Tr 500
EG Tr 200
PL Tr 500
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)
280
282
284
286
288
290
292
0
5
10
15
20
25
30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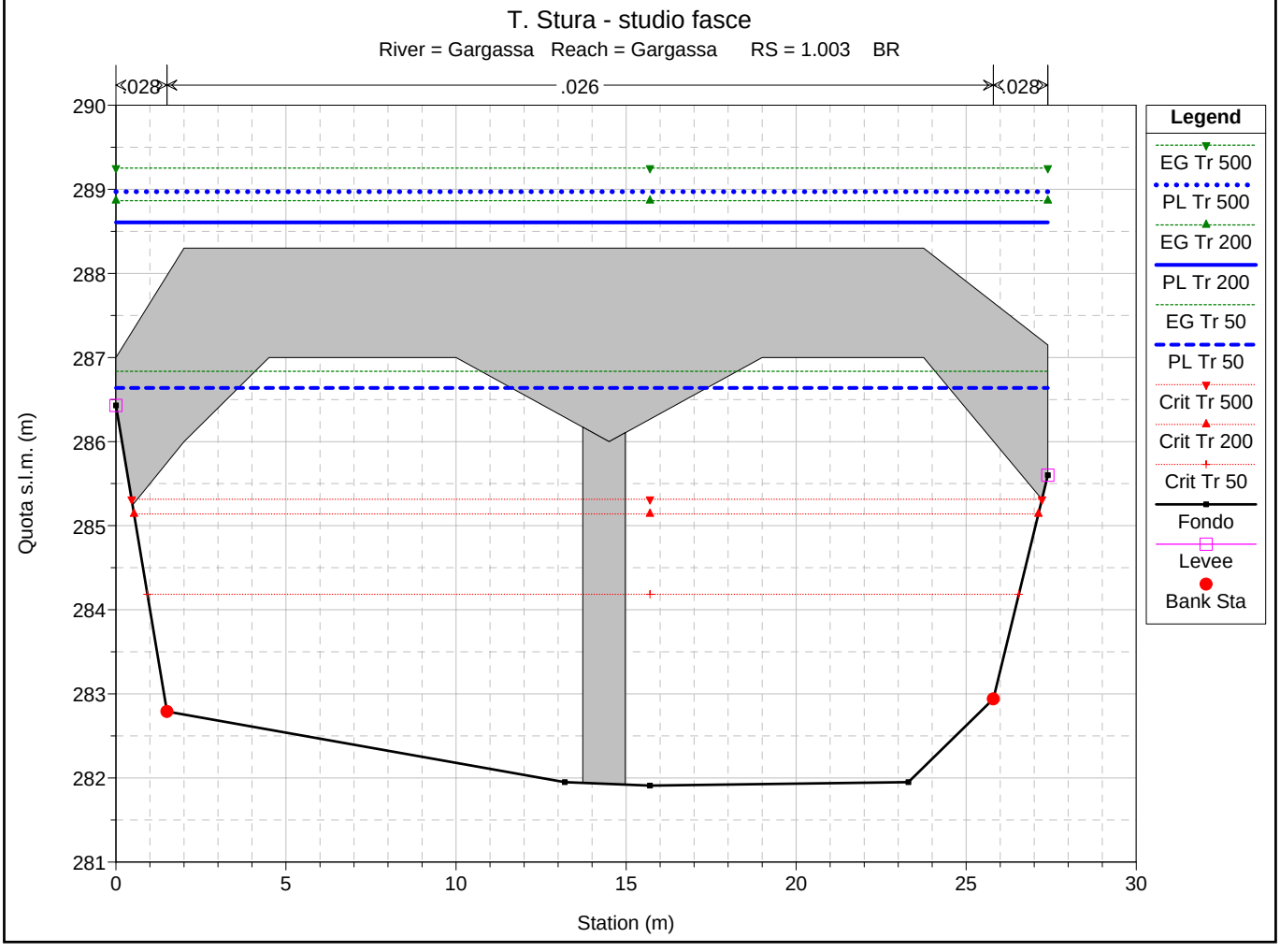
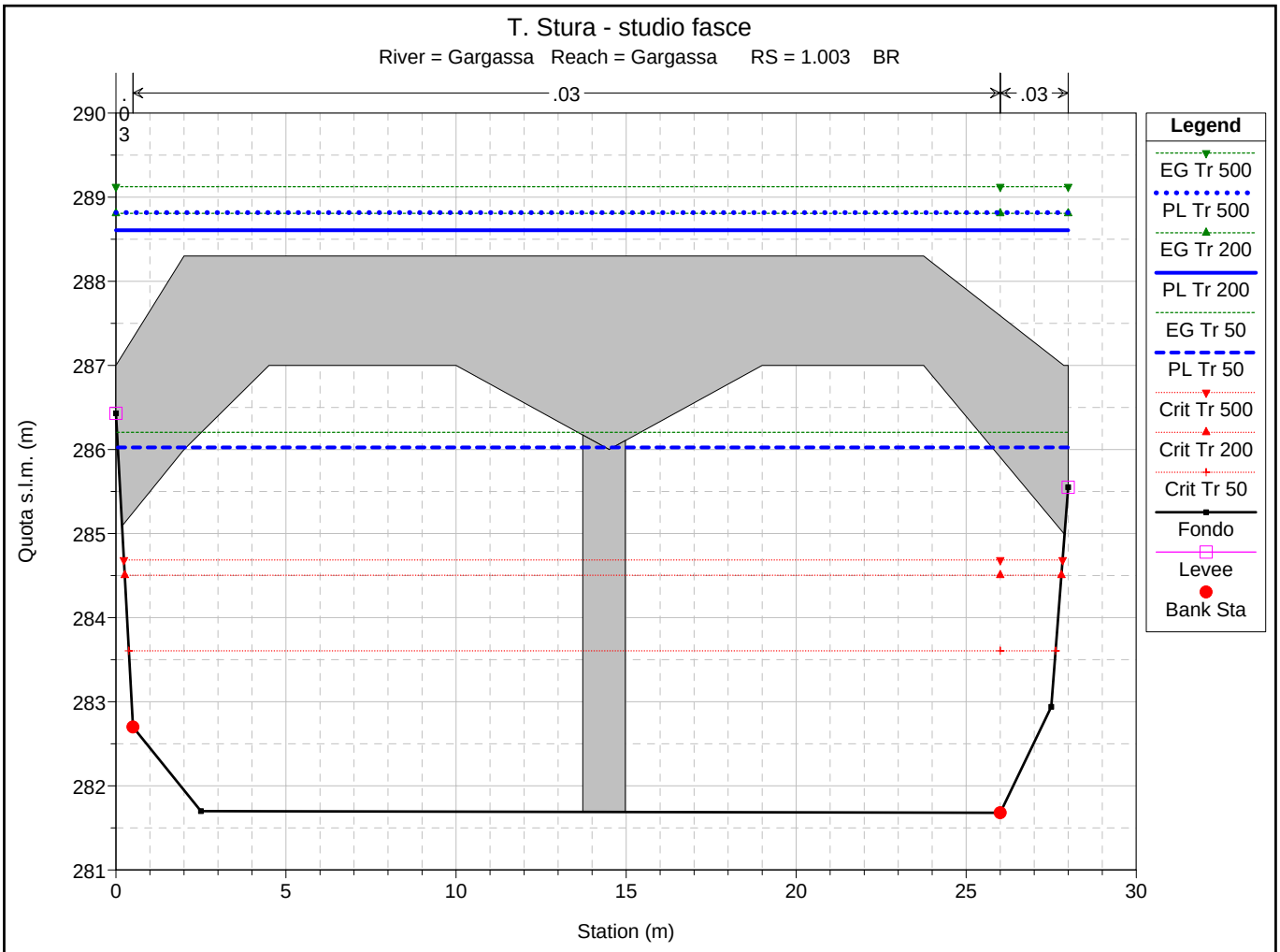
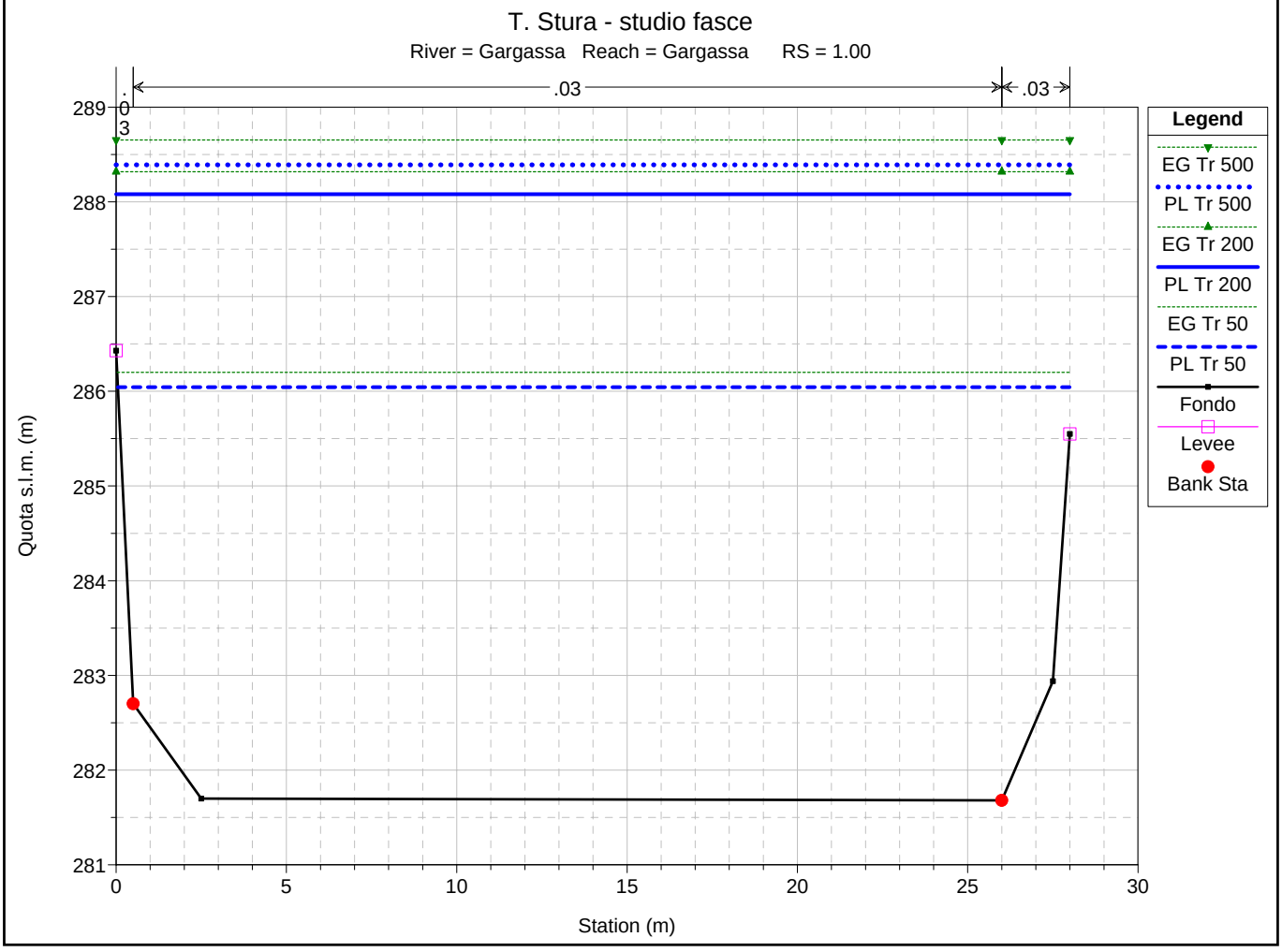
.028
.026
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Gargassa Reach = Gargassa RS = 1.003 BR
.028
.026
.028
Quota s.l.m. (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta


T. Stura - studio fasce
River = Gargassa Reach = Gargassa RS = 1.003 BR
.03
.03
.03
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)
290
289
288
287
286
285
284
283
282
281
0
5
10
15
20
25
30


T. Stura - studio fasce
River = Gargassa Reach = Gargassa RS = 1.00
.03
.03
.03
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Fondo
Levee
Bank Sta
Quota s.l.m. (m)
Station (m)
289
288
287
286
285
284
283
282
281
0
5
10
15
20
25
30

HEC-RAS Plan: Gargassa River: Gargassa Reach: Gargassa

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Gargassa	1.14	Tr 50	200.00	316.00	318.09	329.81	11.72	324.07	5.98	319.42	322.68	0.050052	9.49	21.07	13.42	2.42
Gargassa	1.14	Tr 200	362.00	316.00	318.87	329.81	10.94	324.07	5.20	320.75	325.27	0.050093	11.21	32.29	15.64	2.49
Gargassa	1.14	Tr 500	400.00	316.00	319.02	329.81	10.79	324.07	5.05	321.01	325.76	0.050024	11.50	34.78	16.13	2.50
Gargassa	1.13	Tr 50	200.00	312.68	315.94	324.97	9.03	324.00	8.06	316.27	317.39	0.011818	5.33	37.54	19.71	1.23
Gargassa	1.13	Tr 200	362.00	312.68	316.69	324.97	8.28	324.00	7.31	317.37	319.02	0.014736	6.75	53.62	23.16	1.42
Gargassa	1.13	Tr 500	400.00	312.68	316.84	324.97	8.13	324.00	7.16	317.58	319.35	0.015280	7.02	56.97	23.82	1.45
Gargassa	1.12	Tr 50	200.00	310.27	312.19	320.87	8.68	314.80	2.61	312.89	314.49	0.036096	6.72	29.75	26.45	2.02
Gargassa	1.12	Tr 200	362.00	310.27	312.79	320.87	8.08	314.80	2.01	313.78	315.91	0.030862	7.82	46.27	28.93	1.97
Gargassa	1.12	Tr 500	400.00	310.27	312.91	320.87	7.96	314.80	1.89	313.96	316.20	0.030279	8.04	49.78	29.43	1.97
Gargassa	1.11	Tr 50	200.00	307.78	309.57	310.02	0.45	320.16	10.59	309.88	310.56	0.016252	4.40	45.46	42.67	1.36
Gargassa	1.11	Tr 200	362.00	307.78	310.00	310.02	0.02	320.16	10.16	310.43	311.50	0.021873	5.42	66.80	57.36	1.60
Gargassa	1.11	Tr 500	400.00	307.78	310.06	310.02	-0.04	320.16	10.10	310.54	311.71	0.023015	5.69	70.24	58.11	1.65
Gargassa	1.1	Tr 50	200.00	306.10	308.48	309.90	1.42	319.90	11.42	308.53	309.32	0.008699	4.05	49.43	32.16	1.04
Gargassa	1.1	Tr 200	362.00	306.10	309.55	309.90	0.35	319.90	10.35	309.55	310.41	0.007737	4.09	88.41	51.66	1.00
Gargassa	1.1	Tr 500	400.00	306.10	309.76	309.90	0.14	319.90	10.14	309.76	310.58	0.007786	4.00	99.89	60.89	1.00
Gargassa	1.09	Tr 50	200.00	303.50	305.37	313.10	7.73	308.55	3.18	306.00	307.32	0.022803	6.19	32.31	22.47	1.65
Gargassa	1.09	Tr 200	362.00	303.50	306.16	313.10	6.94	308.55	2.39	306.95	308.57	0.020308	6.87	52.67	28.53	1.61
Gargassa	1.09	Tr 500	400.00	303.50	306.35	313.10	6.75	308.55	2.20	307.13	308.77	0.019120	6.89	58.06	29.93	1.58
Gargassa	1.08	Tr 50	200.00	300.30	303.18	310.10	6.92	310.17	6.99	303.50	304.55	0.012067	5.20	38.47	21.76	1.25
Gargassa	1.08	Tr 200	362.00	300.30	304.04	310.10	6.06	310.17	6.13	304.55	305.92	0.012326	6.06	59.70	27.20	1.31
Gargassa	1.08	Tr 500	400.00	300.30	304.20	310.10	5.90	310.17	5.97	304.74	306.19	0.012517	6.25	63.99	28.17	1.32
Gargassa	1.07	Tr 50	200.00	297.18	298.86	305.10	6.24	310.00	11.14	299.80	302.10	0.052328	7.97	25.10	23.07	2.44
Gargassa	1.07	Tr 200	362.00	297.18	299.47	305.10	5.63	310.00	10.53	300.60	303.49	0.046479	8.89	40.74	29.03	2.39
Gargassa	1.07	Tr 500	400.00	297.18	299.58	305.10	5.52	310.00	10.42	300.76	303.75	0.045654	9.04	44.23	30.29	2.39
Gargassa	1.06	Tr 50	200.00	293.00	295.03	300.08	5.05	304.96	9.93	295.75	297.32	0.022248	6.71	29.82	17.27	1.63
Gargassa	1.06	Tr 200	362.00	293.00	295.91	300.08	4.17	304.96	9.05	296.91	299.05	0.021273	7.85	46.10	19.87	1.65
Gargassa	1.06	Tr 500	400.00	293.00	296.09	300.08	3.99	304.96	8.87	297.13	299.37	0.020959	8.03	49.82	20.45	1.64
Gargassa	1.05	Tr 50	200.00	288.66	290.85	294.87	4.02	299.89	9.04	291.71	293.65	0.029448	7.41	26.98	17.03	1.88
Gargassa	1.05	Tr 200	362.00	288.66	291.66	294.87	3.21	299.89	8.23	292.87	295.59	0.026840	8.78	41.24	18.11	1.86
Gargassa	1.05	Tr 500	400.00	288.66	291.84	294.87	3.03	299.89	8.05	293.11	295.97	0.026297	9.00	44.42	18.35	1.85
Gargassa	1.04	Tr 50	200.00	286.70	289.74	296.80	7.06	295.10	5.36	289.85	290.84	0.008722	4.65	42.99	22.52	1.07
Gargassa	1.04	Tr 200	362.00	286.70	290.41	296.80	6.39	295.10	4.69	290.86	292.32	0.011678	6.12	59.13	25.33	1.28
Gargassa	1.04	Tr 500	400.00	286.70	290.53	296.80	6.27	295.10	4.57	291.07	292.64	0.012299	6.43	62.20	25.68	1.32
Gargassa	1.03	Tr 50	200.00	285.58	288.41	289.61	1.20	300.11	11.70	288.43	289.64	0.008539	4.93	40.59	16.82	1.01
Gargassa	1.03	Tr 200	362.00	285.58	289.65	289.61	-0.04	300.11	10.46	289.65	291.37	0.008017	5.81	62.35	18.09	1.00
Gargassa	1.03	Tr 500	400.00	285.58	289.90	289.61	-0.29	300.11	10.21	289.90	291.72	0.008026	5.98	66.84	18.31	1.00

HEC-RAS Plan: Gargassa River: Gargassa Reach: Gargassa (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Gargassa	1.02	Tr 50	200.00	284.02	285.72	285.05	-0.67	299.87	14.15	286.44	288.12	0.031906	6.85	29.21	22.80	1.93
Gargassa	1.02	Tr 200	362.00	284.02	286.35	285.05	-1.30	299.87	13.52	287.40	289.88	0.028914	8.33	43.56	23.33	1.94
Gargassa	1.02	Tr 500	400.00	284.02	286.48	285.05	-1.43	299.87	13.39	287.61	290.23	0.028219	8.58	46.73	23.45	1.94
Gargassa	1.015	Tr 50	200.00	281.91	286.75	283.22	-3.53	283.26	-3.49	284.05	286.92	0.000403	1.81	111.68	24.49	0.27
Gargassa	1.015	Tr 200	362.00	281.91	288.77	283.22	-5.55	283.26	-5.51	284.99	289.04	0.000394	2.27	161.20	24.50	0.28
Gargassa	1.015	Tr 500	400.00	281.91	289.17	283.22	-5.95	283.26	-5.91	285.19	289.46	0.000397	2.37	170.90	24.50	0.29
Gargassa	1.01		Bridge													
Gargassa	1.005	Tr 50	200.00	281.91	286.68	282.79	-3.89	282.94	-3.74	284.10	286.84	0.000299	1.80	115.98	27.40	0.27
Gargassa	1.005	Tr 200	362.00	281.91	288.61	282.79	-5.82	282.94	-5.67	285.02	288.86	0.000296	2.27	168.76	27.40	0.29
Gargassa	1.005	Tr 500	400.00	281.91	288.97	282.79	-6.18	282.94	-6.03	285.22	289.25	0.000300	2.37	178.73	27.40	0.29
Gargassa	1.003		Bridge													
Gargassa	1.00	Tr 50	200.00	281.68	286.04	282.70	-3.34	281.68	-4.36		286.20	0.000407	1.77	117.24	27.95	0.27
Gargassa	1.00	Tr 200	362.00	281.68	288.08	282.70	-5.38	281.68	-6.40		288.32	0.000367	2.18	174.29	28.00	0.28
Gargassa	1.00	Tr 500	400.00	281.68	288.39	282.70	-5.69	281.68	-6.71		288.65	0.000383	2.30	182.95	28.00	0.28