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Oggetto del lavoro

Studio di variante al PAI, esteso all'intero territorio comunale, ai sensi dell'art. 37, comma 3 delle Norme Tecniche di Attuazione - parte idraulica -

Timbri e firme:

Committente:
Comune di Usellus

Codice Lavoro
2025_12

Visti Amministrativi
Responsabile del Procedimento:
Arch. Ilaria Suozzi

Ediz.	Data	Descrizione	Disegnato	Verificato	Approvato
1P	09/25	Report di calcolo	M.P.	M.P.	M.P.

Ediz. Elaborato	Data	Scala	File	Plot Style
1	09/25	–		Usellus PAI

Allegato

B

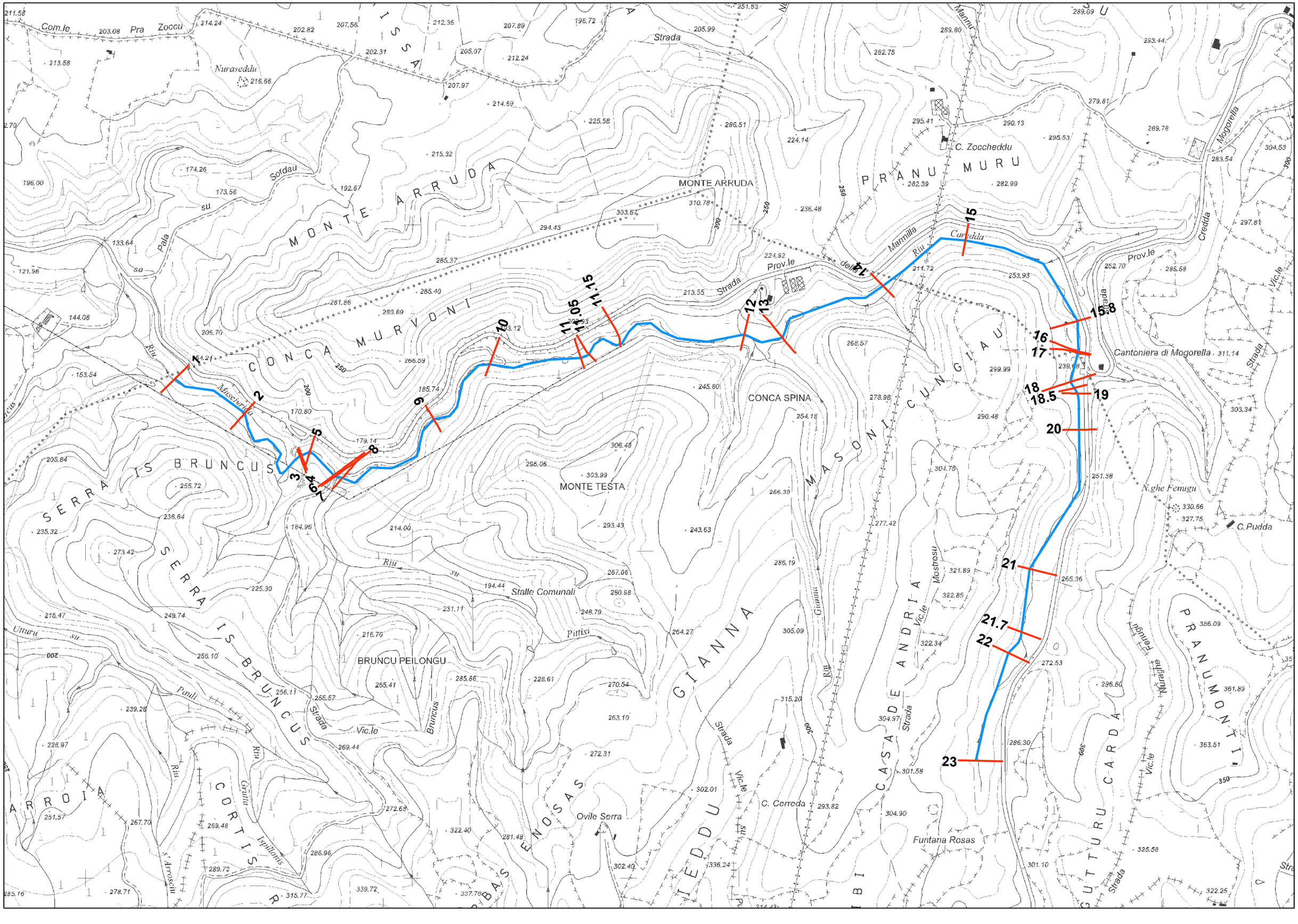
Report di calcolo (profili, sezioni e tabelle analitiche)

Sommario

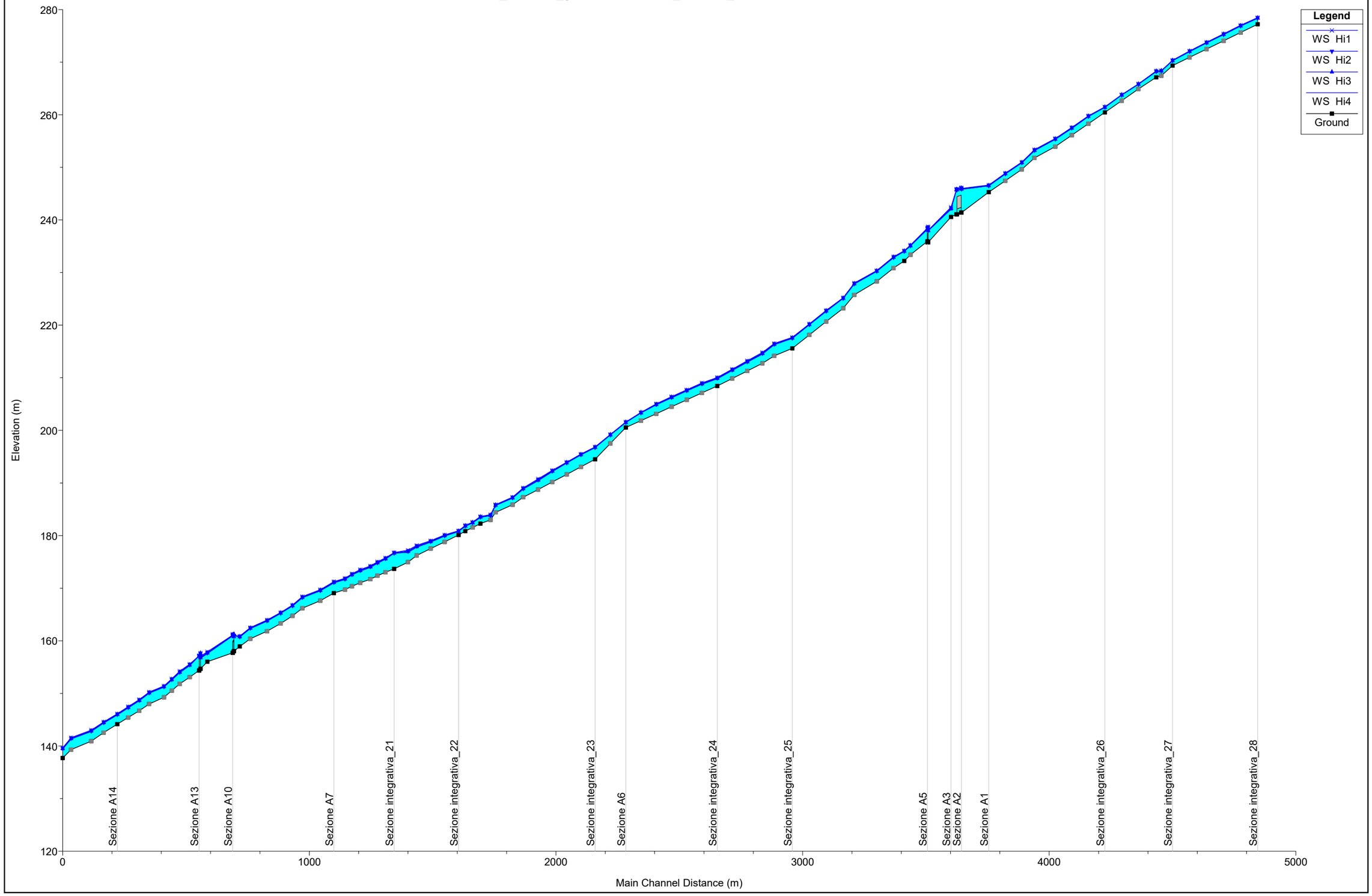
Rio Caredda	1
Rio Bias Arrubias	24
Rio domus de funtanas	36
Rio Sa Grutta	47
Riu Spironcia	63
Riu Funtanedda	129
Riu Cungiaus Frissa	158

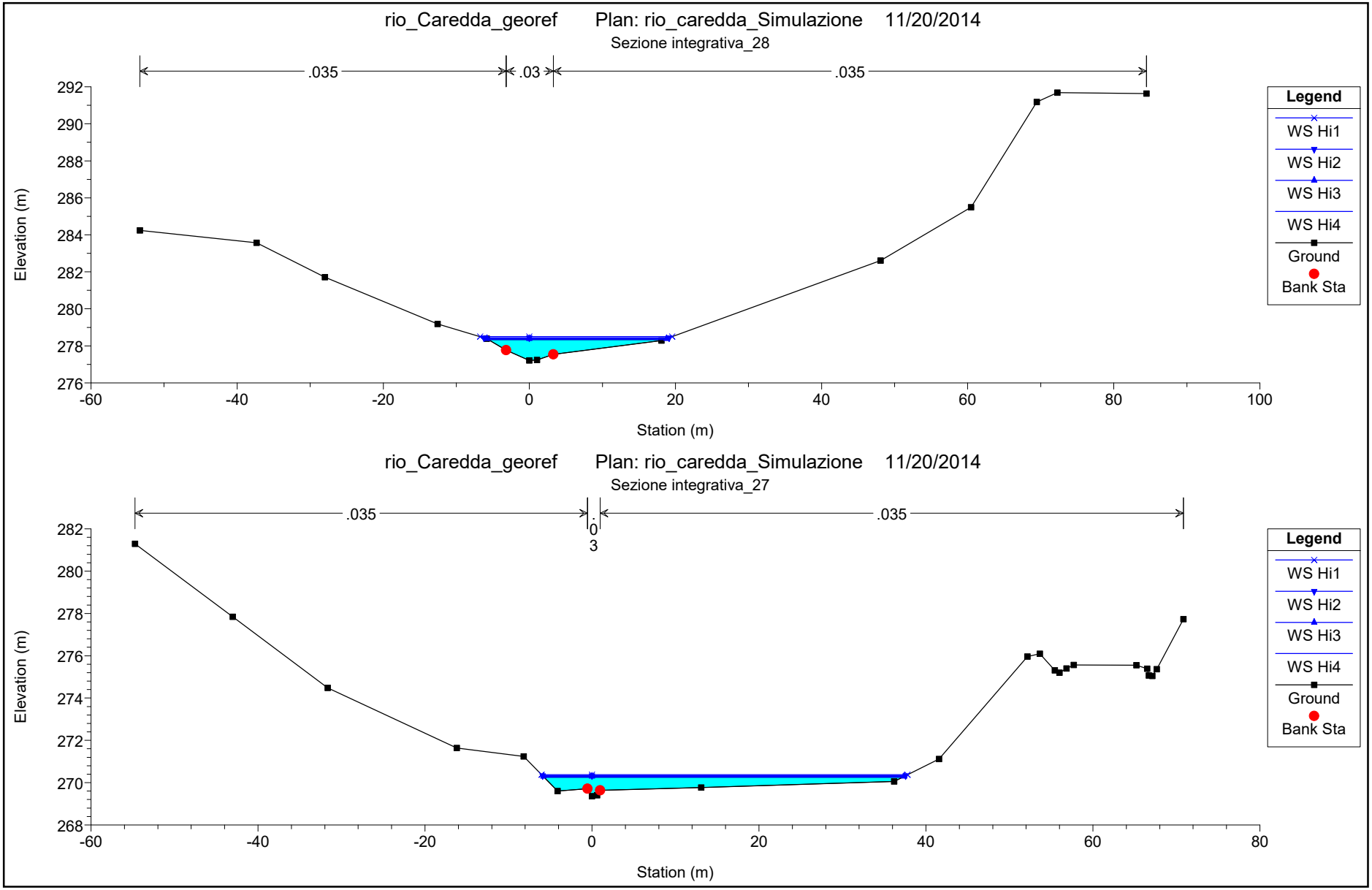
Rio Caredda

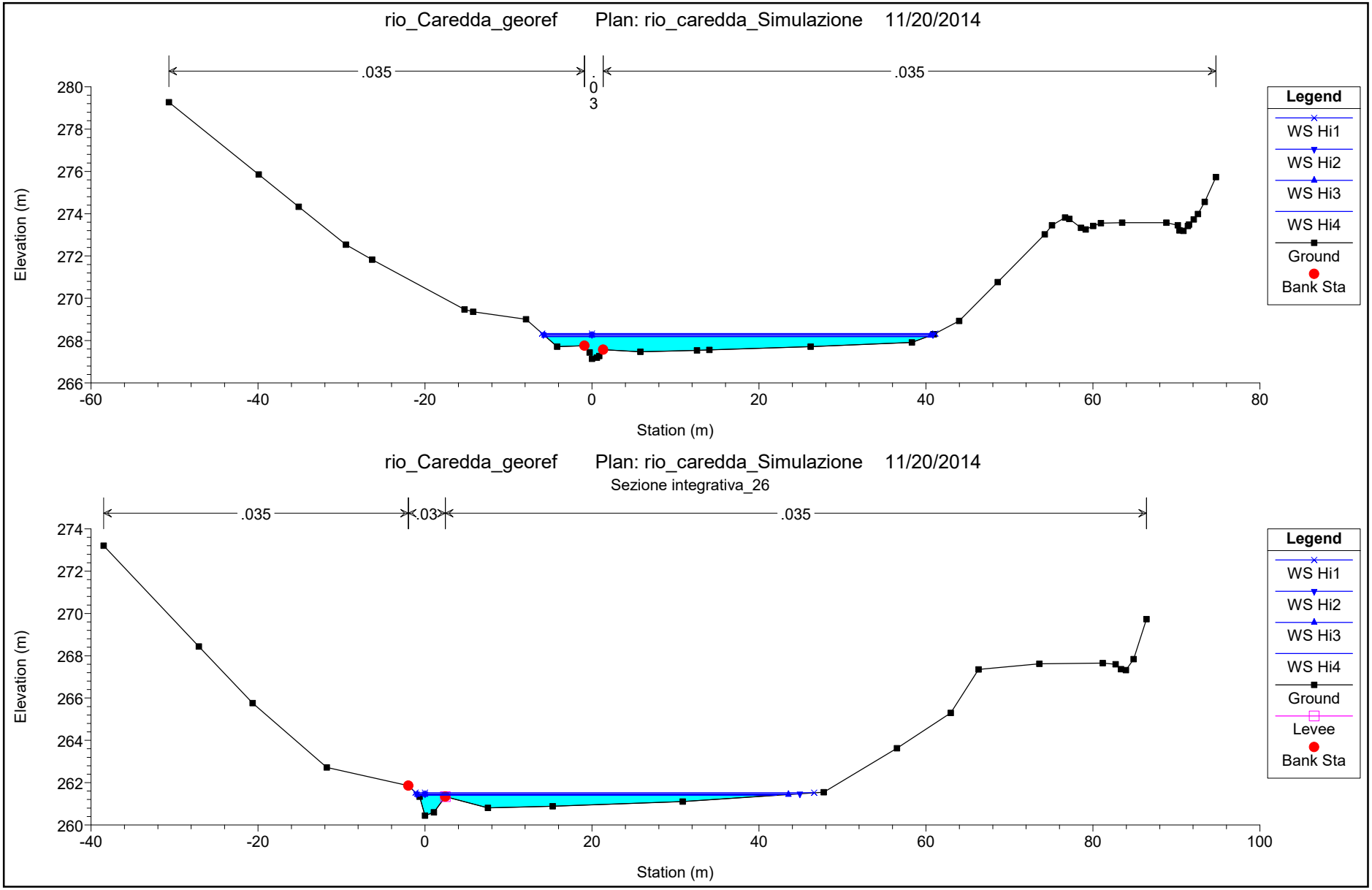
Profilo – Sezioni – Tabelle

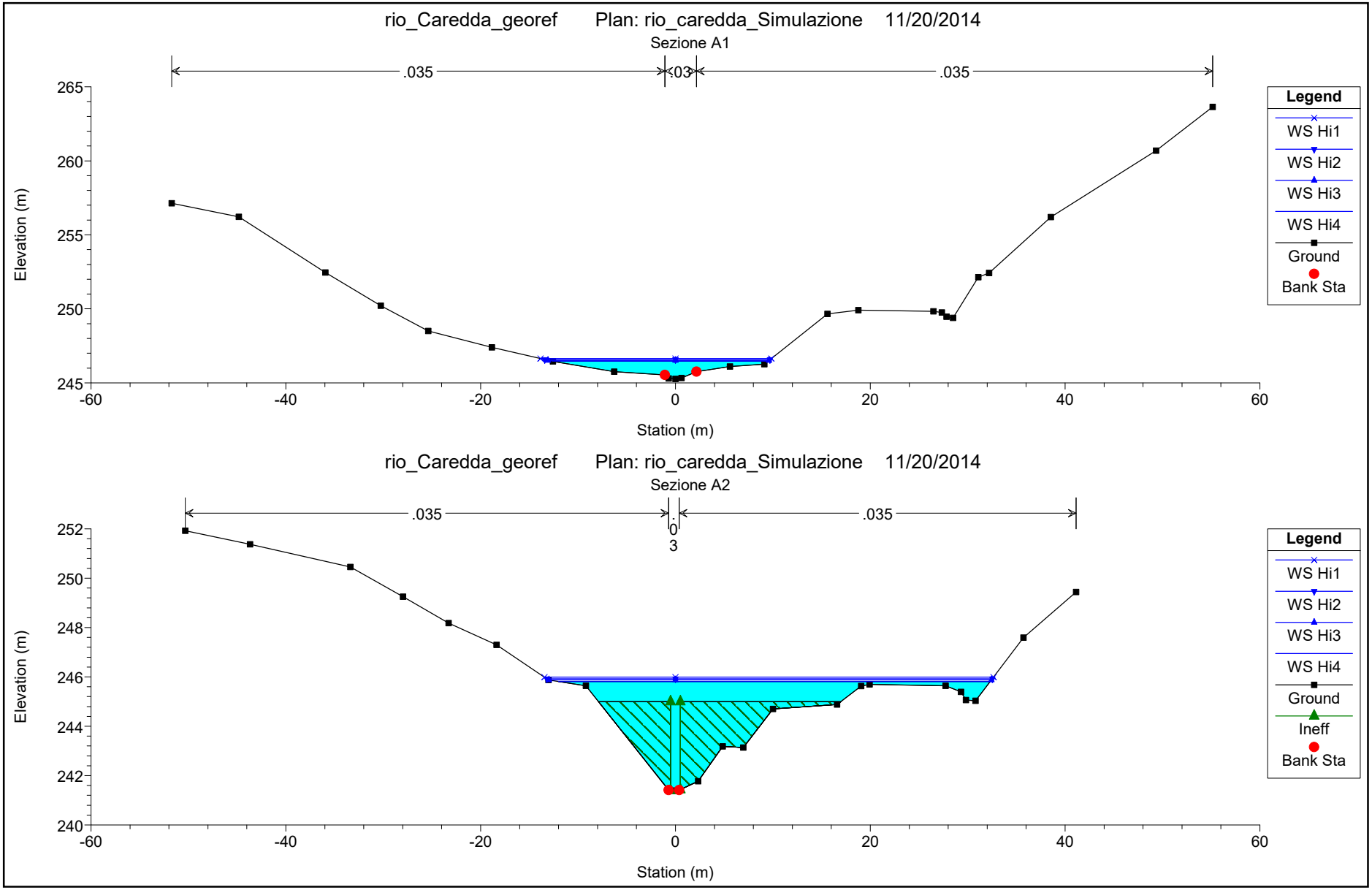

Com.le
Pra Zoccu
Nuraseddu
Sordau
su Pala sa
MONTE ARRUDA
MONTE ARRUDA
CONCA MURVONI
Riu Muschiarta
CONCA SPINA
MONTE TESTA
SERRA IS BRUNCUS
SERRA IS BRUNCUS
BRUNCU PEILONGU
Stalle Comunali
Pittixi
Bruncus
Penuli
Utturu su
Ovile Serra
GIANNA MASONI
PRANU MURU
C. Zoccheddu
Mamilla
Riu Cardda
Prov.le
Strada
Cantoniera di Mogorella
Mogorella
Cardda
Vic.le
CASA DE ANDRIA
Mostrosu
Funtana Rosas
SUTTURU CARDA
PRANUMONTI
N.ghe Fenugu
C.Pudda
Fenugu
Nuraghe
C. Cerroda
1
2
3
4
5
6
7
8
9
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11
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18
18.5
19
20
21
21.7
22
23

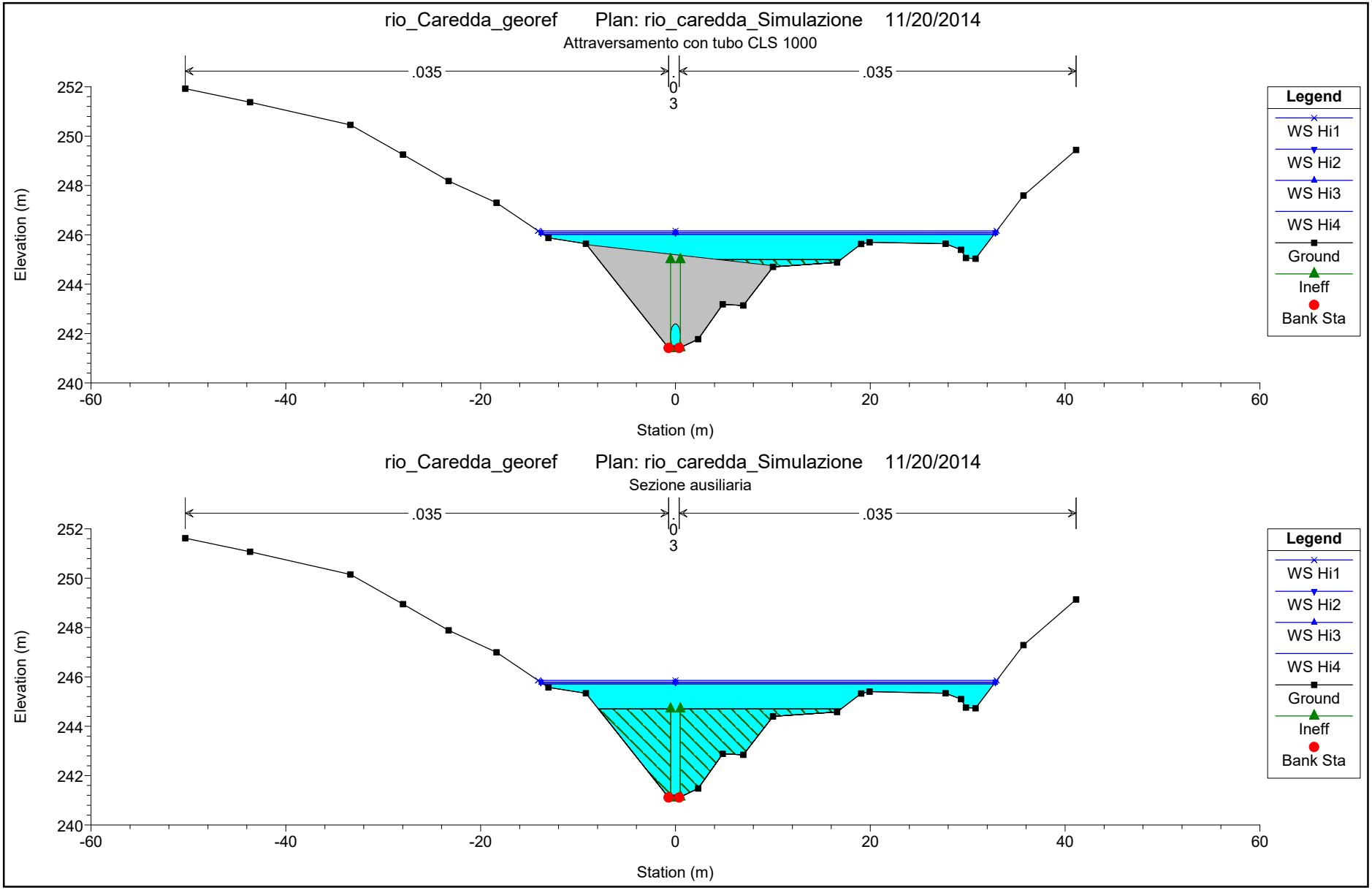
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014

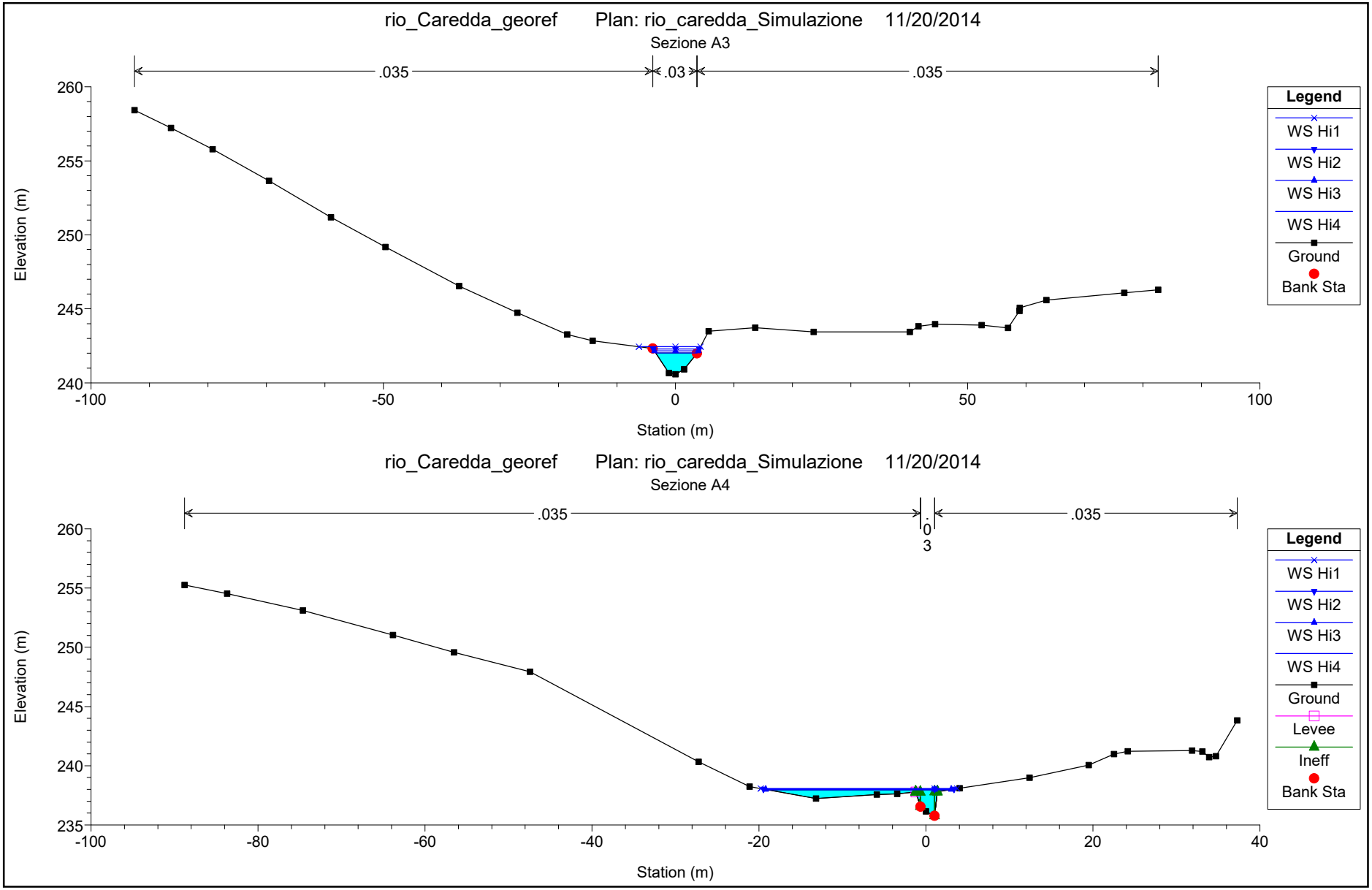


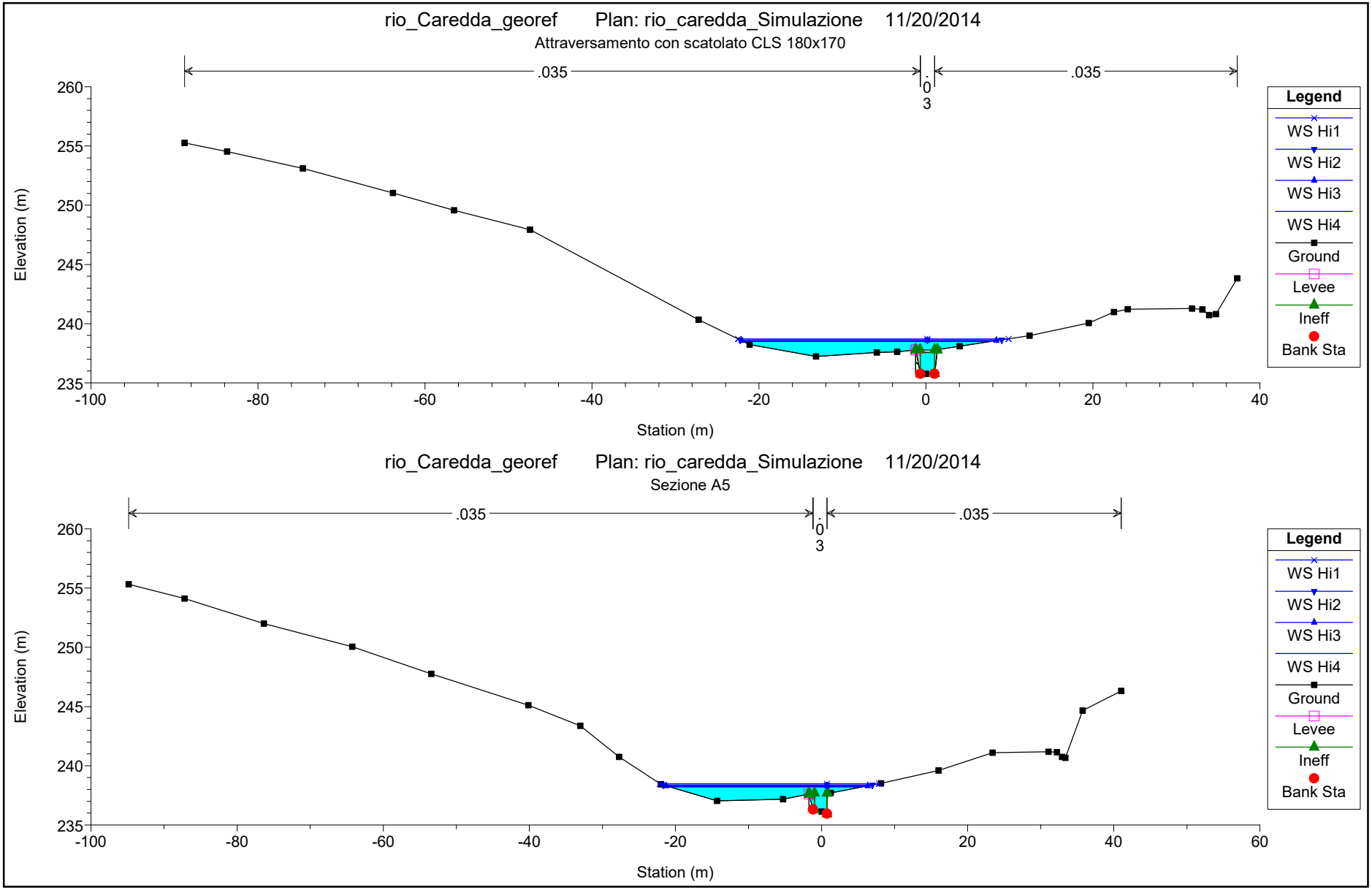

rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione integrativa_28
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione integrativa_27
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta

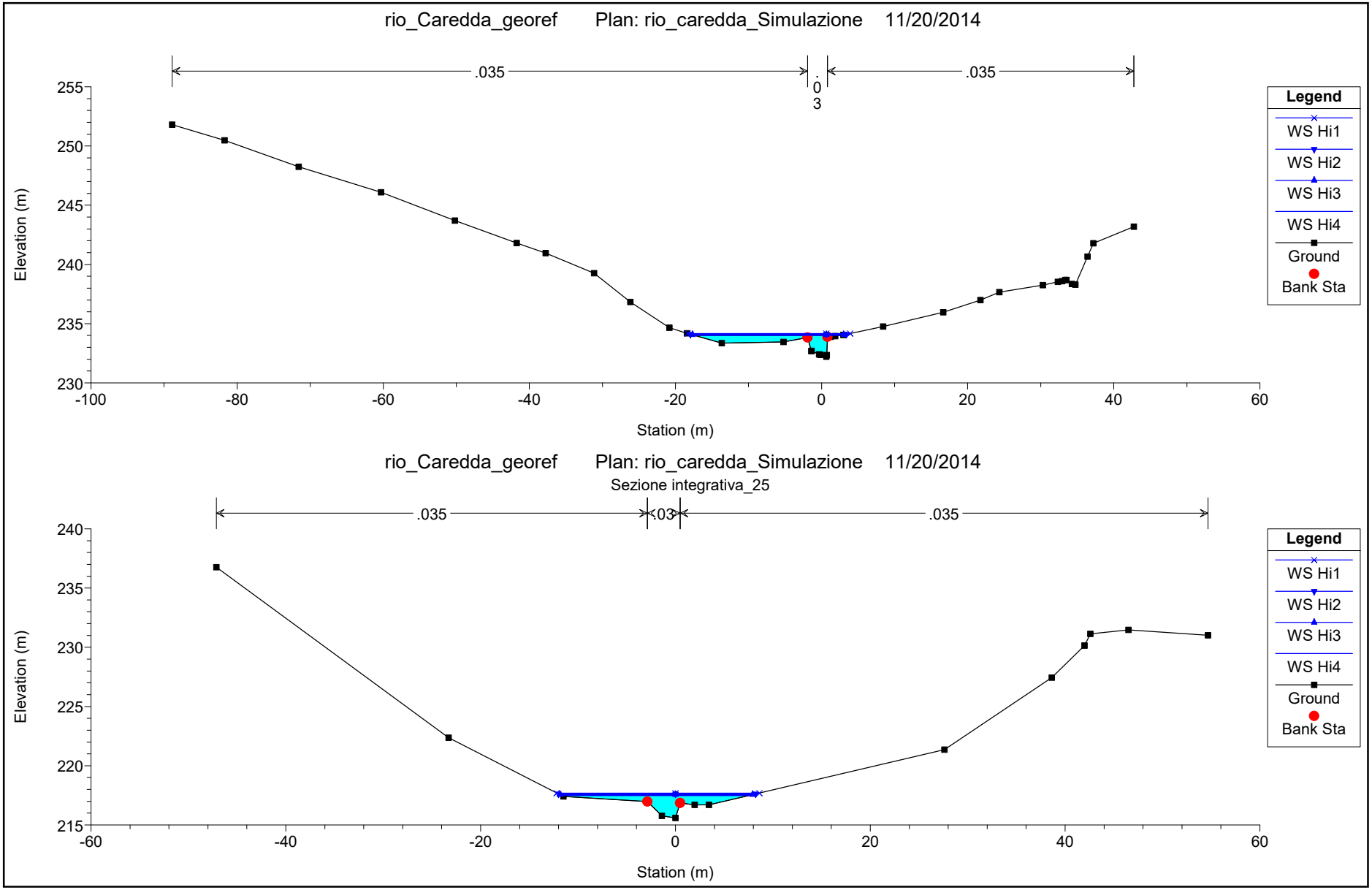

rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione integrativa_26
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta

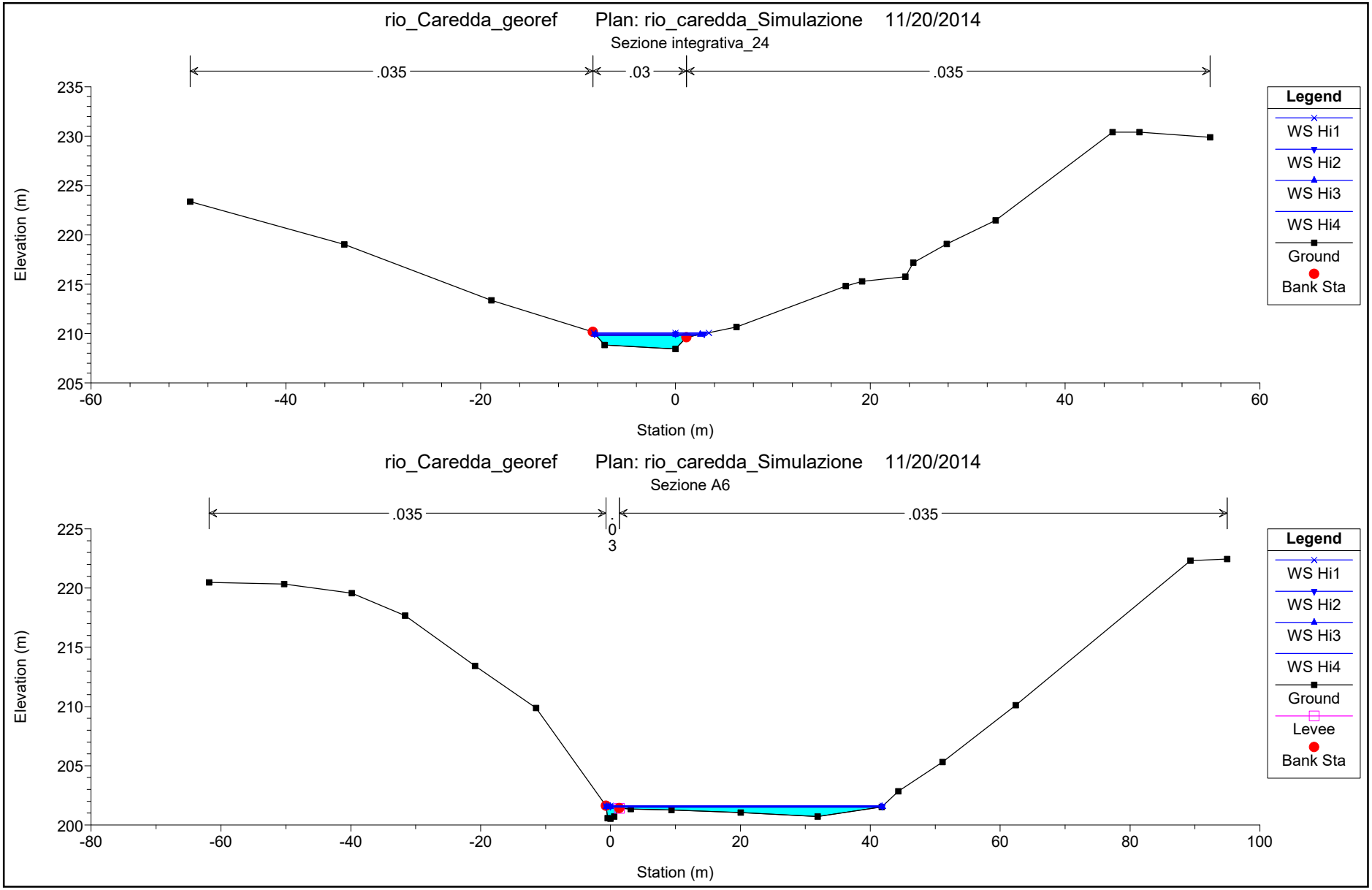

rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione A1
.035
.03
.035
Elevation (m)
265
260
255
250
245
-60
-40
-20
0
20
40
60
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione A2
.035
.035
Elevation (m)
252
250
248
246
244
242
240
-60
-40
-20
0
20
40
60
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Ineff
Bank Sta

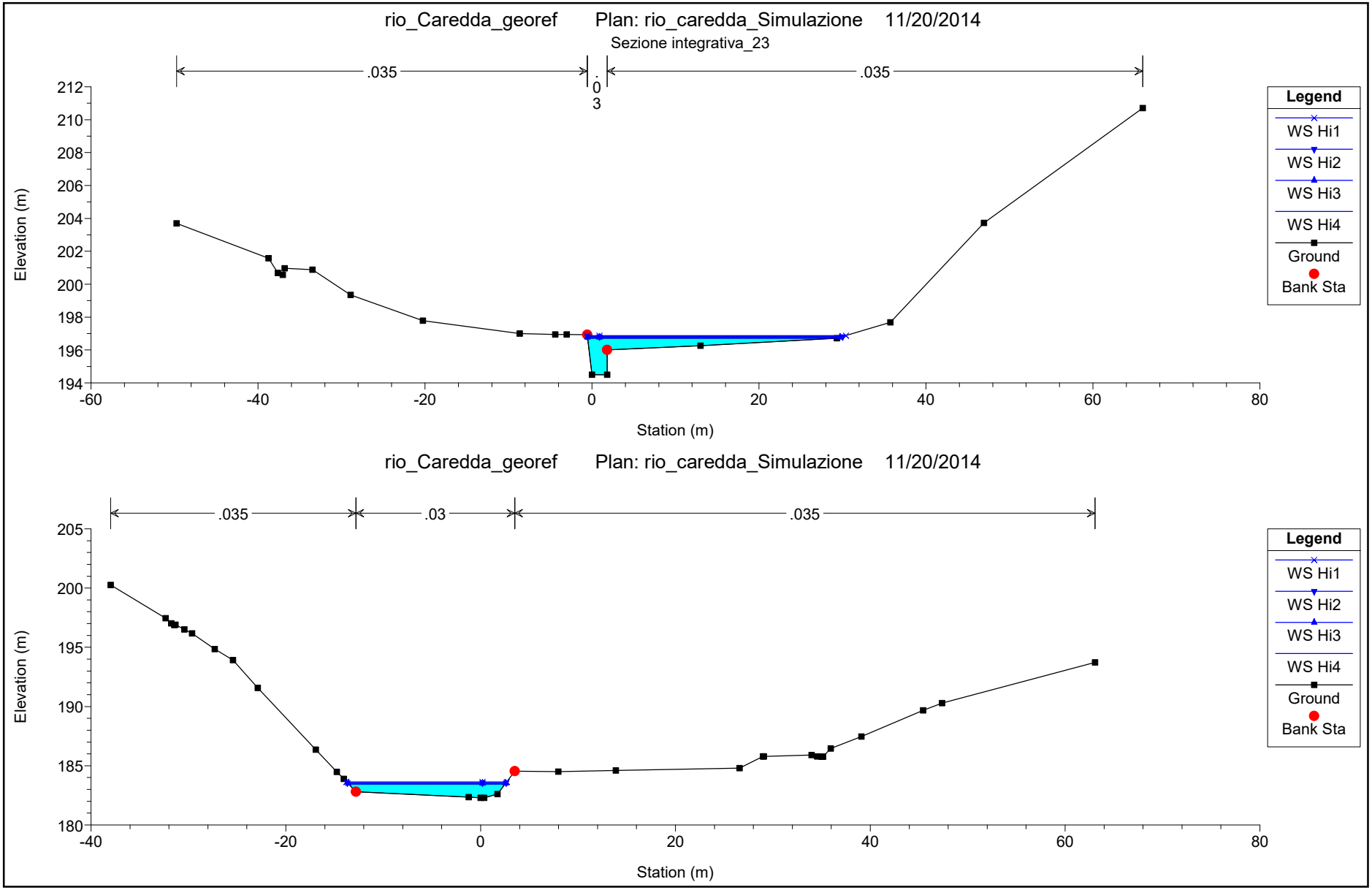

rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Attraversamento con tubo CLS 1000
.035
.035
0
3
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Ineff
Bank Sta
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione ausiliaria
.035
.035
0
3
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Ineff
Bank Sta

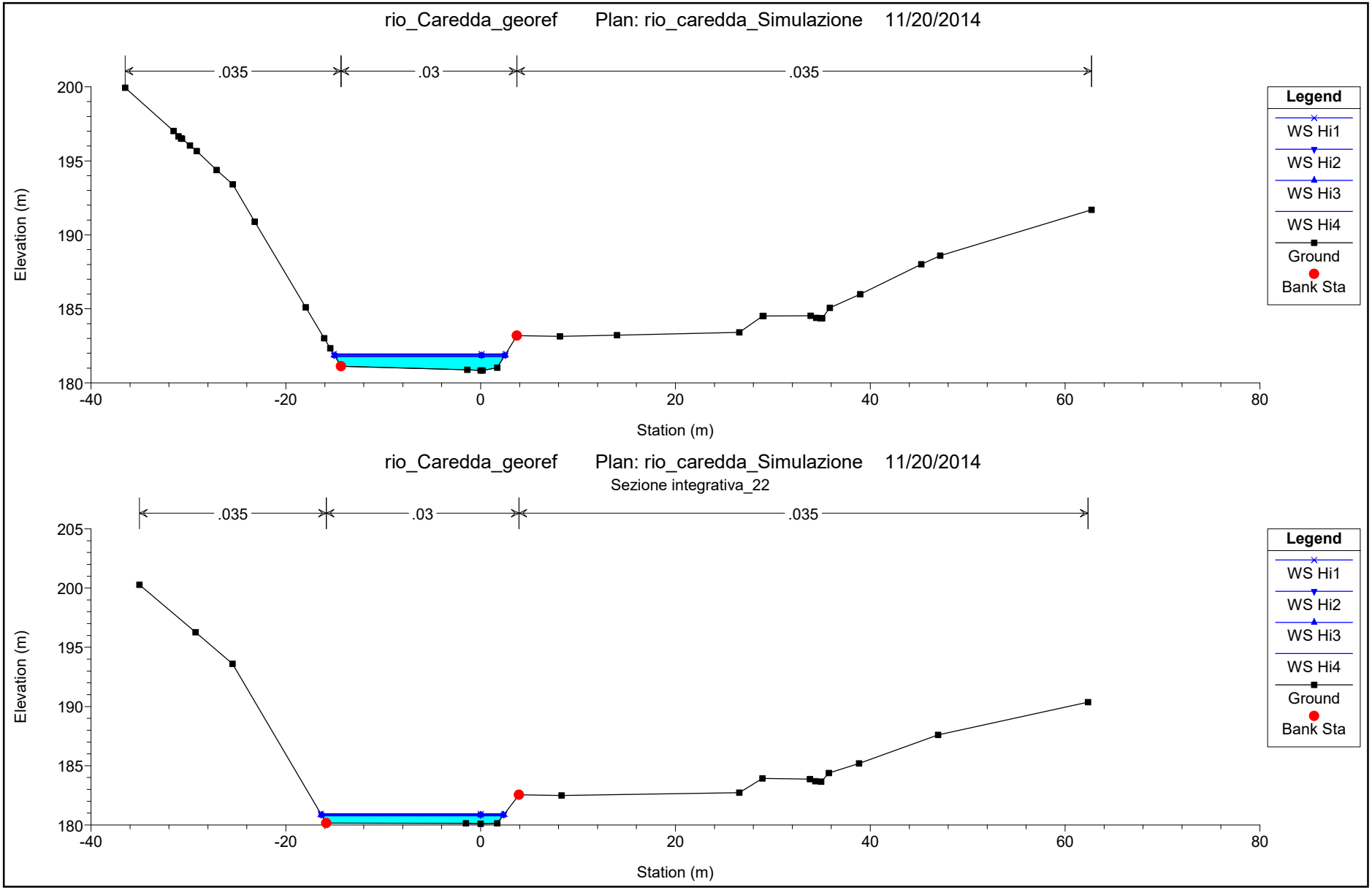

rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione A3
.035
.03
.035
Elevation (m)
260
255
250
245
240
-100
-50
0
50
100
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione A4
.035
.03
.035
Elevation (m)
260
255
250
245
240
235
-100
-80
-60
-40
-20
0
20
40
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta

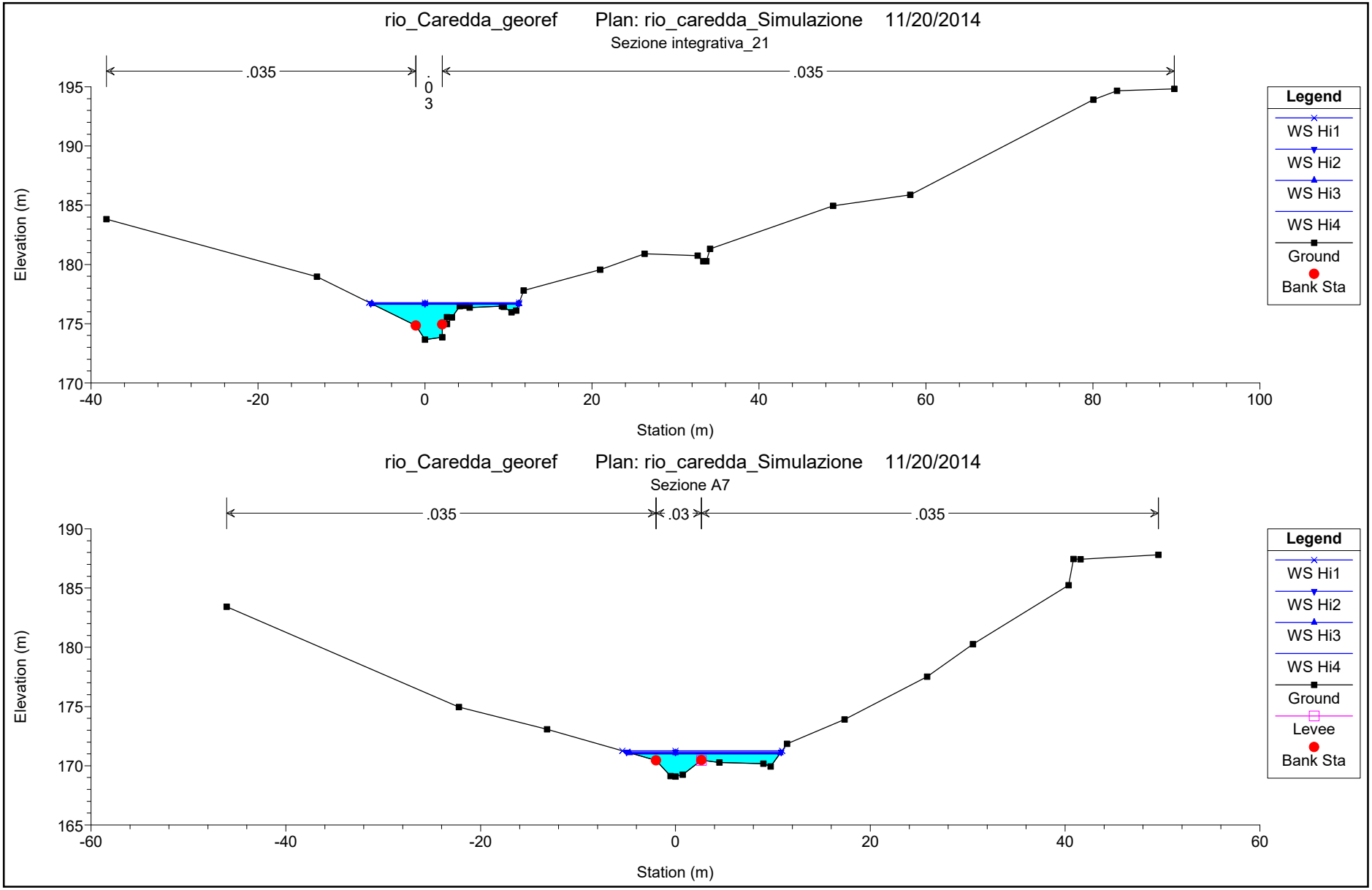

rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Attraversamento con scatolato CLS 180x170
.035
.035
0.3
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione A5
.035
.035
0.3
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta

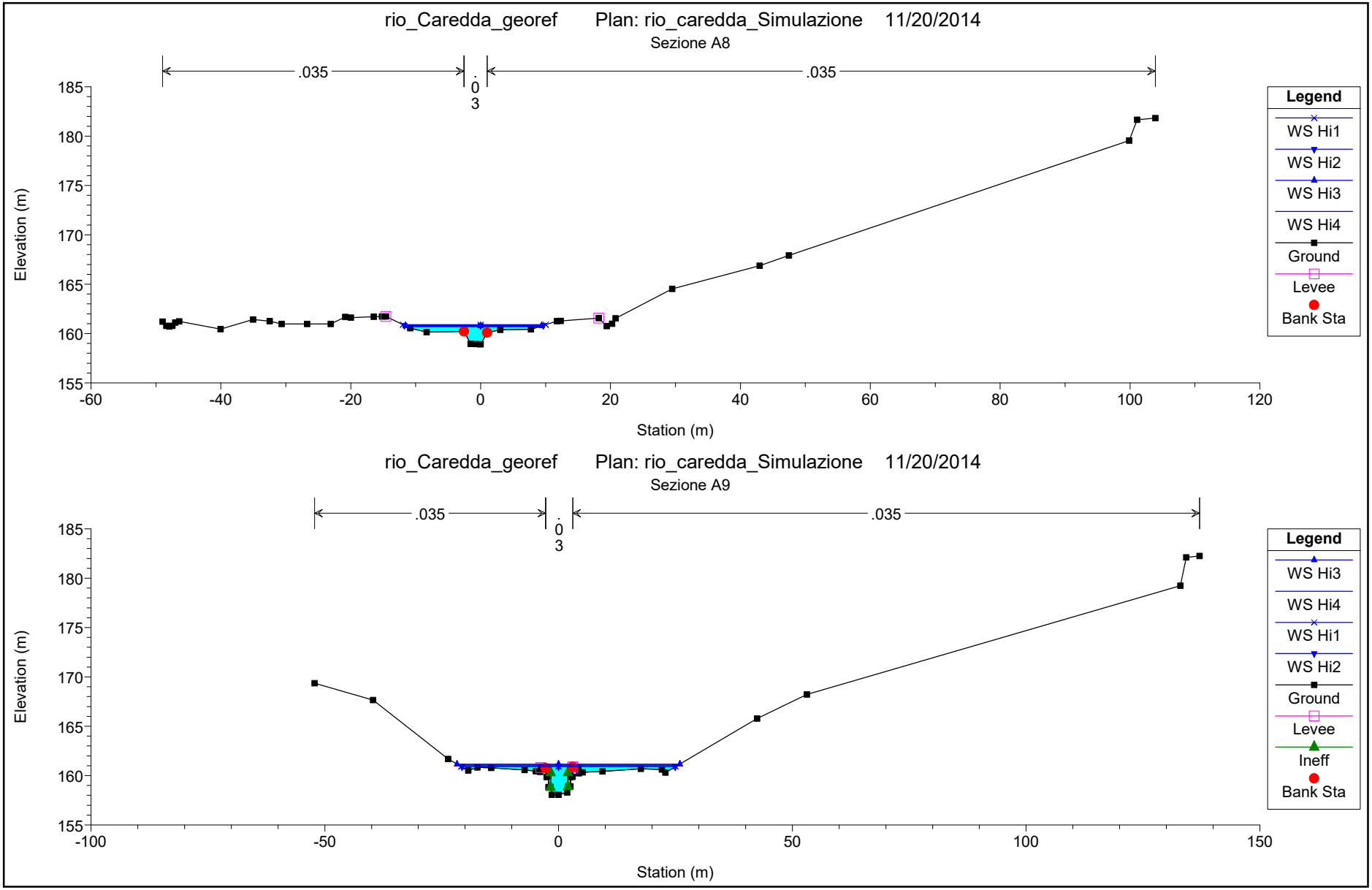

rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione integrativa_25
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta

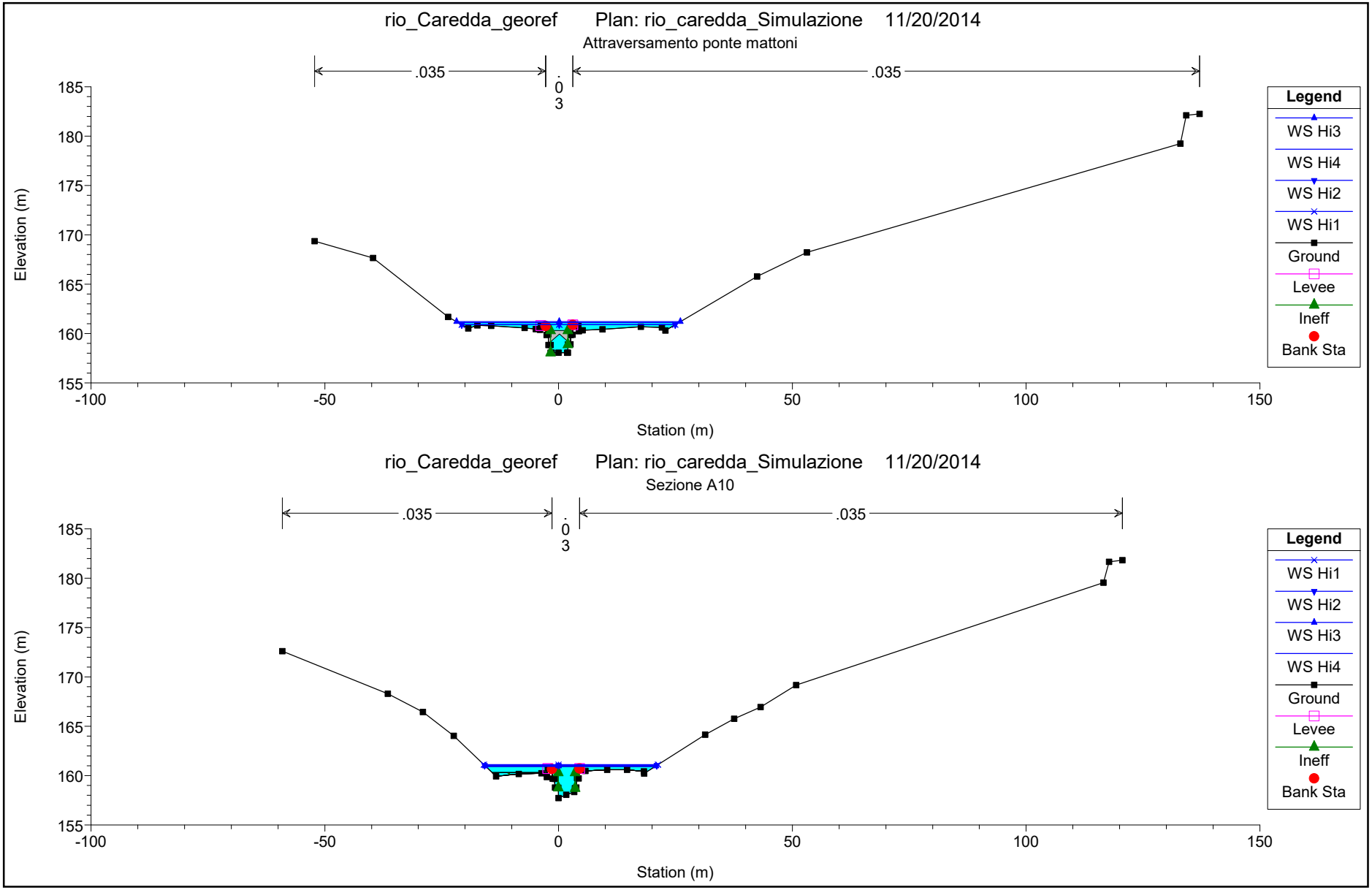

rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione integrativa_24
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione A6
.035
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta

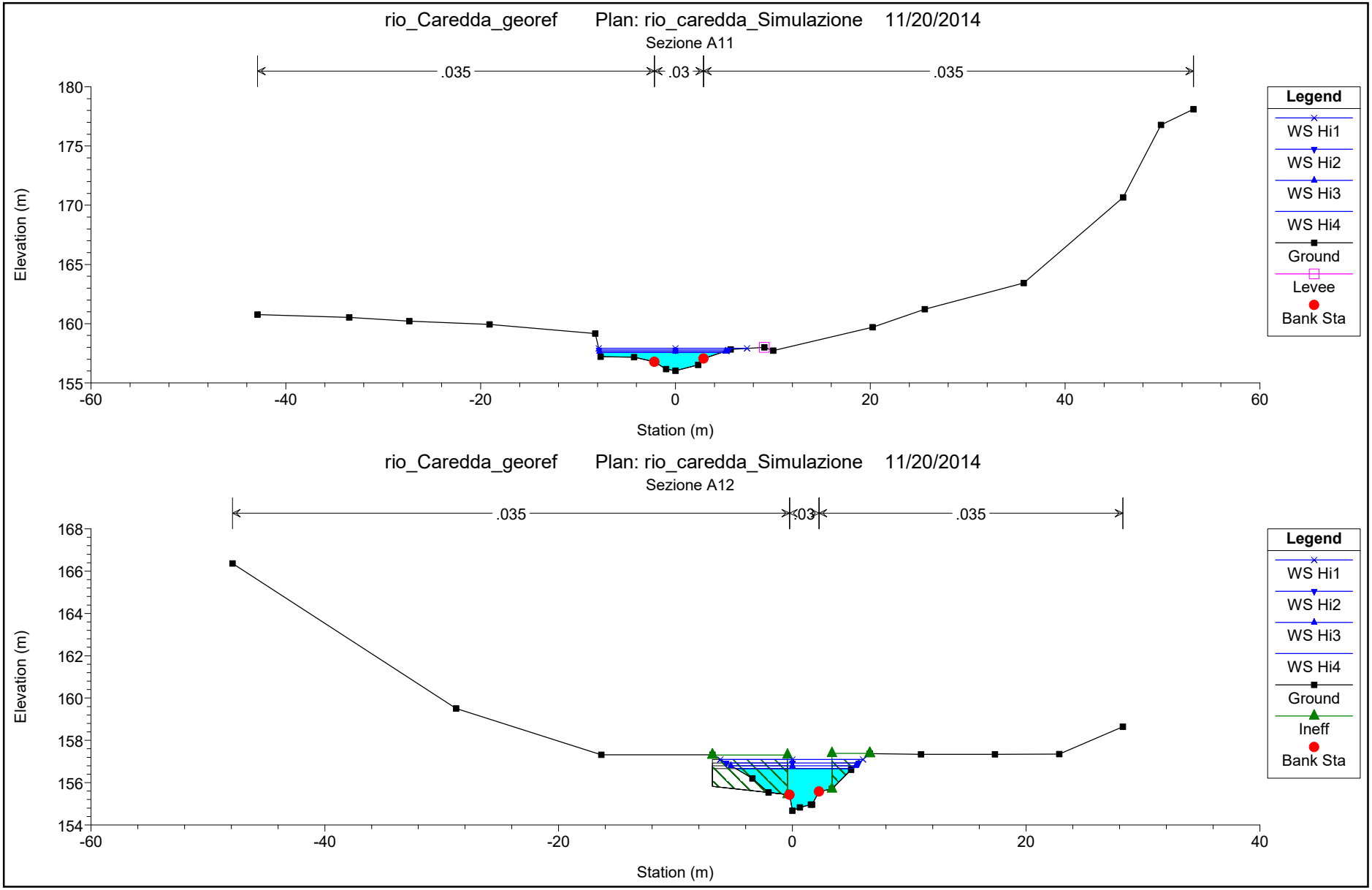

rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione integrativa_23
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta

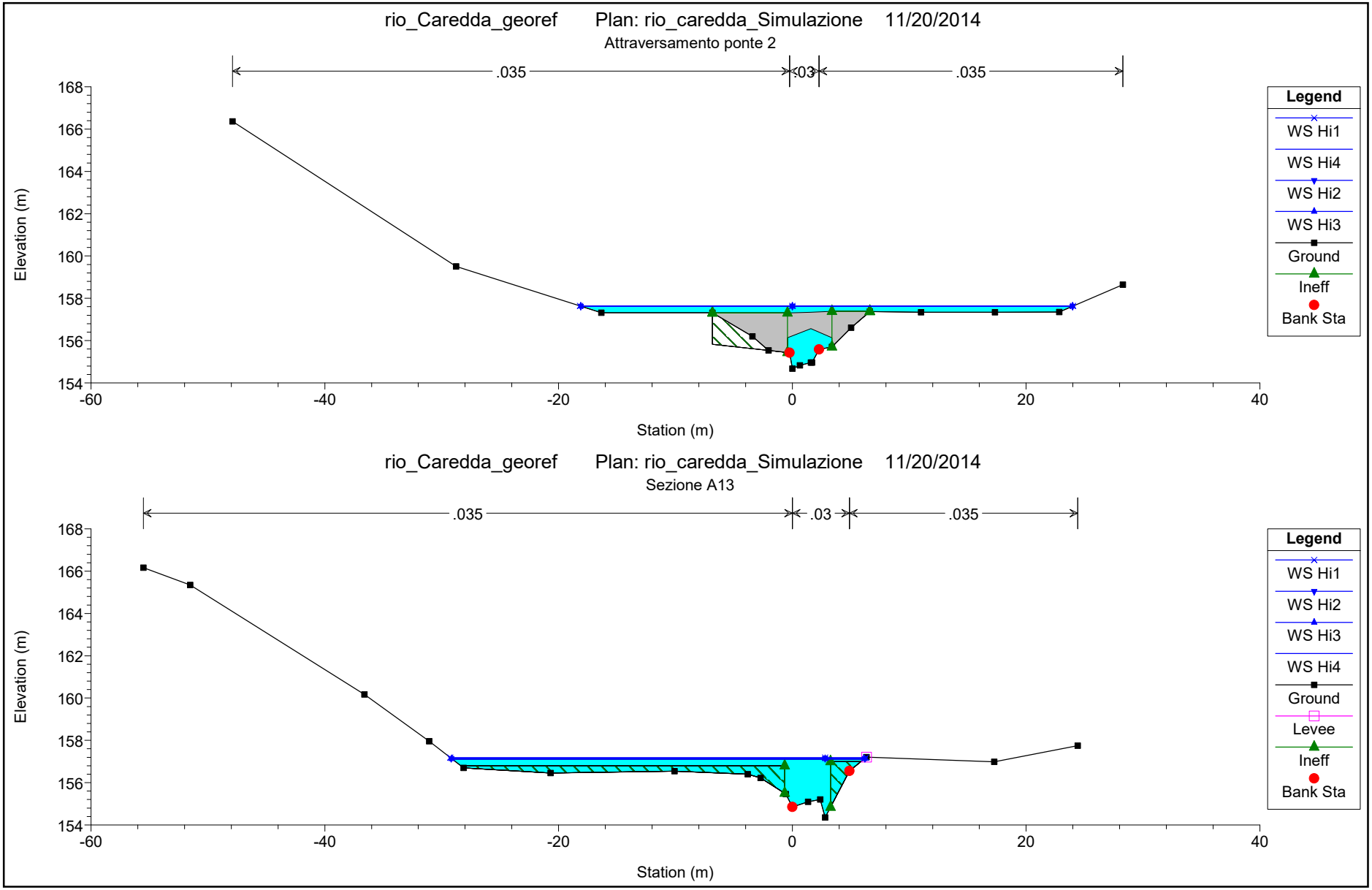

rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione integrativa_22
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta

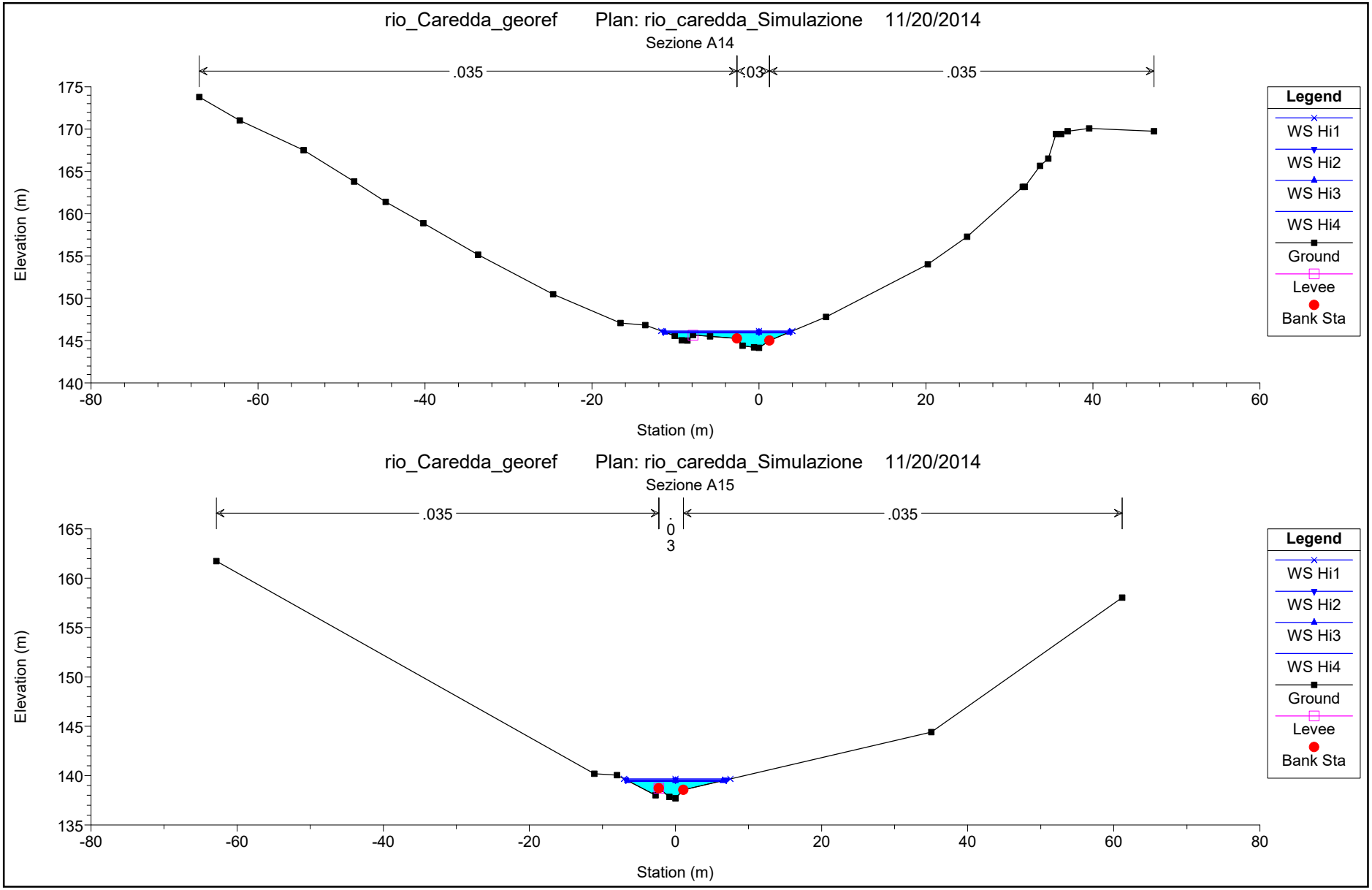

rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione integrativa_21
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione A7
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta


rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione A8
.035
.03
.035
Elevation (m)
185
180
175
170
165
160
155
-60
-40
-20
0
20
40
60
80
100
120
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione A9
.035
.03
.035
Elevation (m)
185
180
175
170
165
160
155
-100
-50
0
50
100
150
Station (m)
Legend
WS Hi3
WS Hi4
WS Hi1
WS Hi2
Ground
Levee
Ineff
Bank Sta


rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Attraversamento ponte mattoni
.035
.03
.035
Elevation (m)
185
180
175
170
165
160
155
-100
-50
0
50
100
150
Station (m)
Legend
WS Hi3
WS Hi4
WS Hi2
WS Hi1
Ground
Levee
Ineff
Bank Sta
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione A10
.035
.03
.035
Elevation (m)
185
180
175
170
165
160
155
-100
-50
0
50
100
150
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta


rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione A11
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione A12
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Ineff
Bank Sta


rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Attraversamento ponte 2
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi4
WS Hi2
WS Hi3
Ground
Ineff
Bank Sta
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione A13
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta


rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione A14
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta
rio_Caredda_georef Plan: rio_caredda_Simulazione 11/20/2014
Sezione A15
.035
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta

HEC-RAS Plan: 01 River: Rio Caredda Reach: asta principale

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
asta principale	23	Hi4	52.29	277.21	278.33	278.69	279.50	0.032015	5.61	12.83	24.02	1.86
asta principale	23	Hi3	59.53	277.21	278.39	278.76	279.62	0.032046	5.82	14.10	24.61	1.88
asta principale	23	Hi2	66.76	277.21	278.44	278.83	279.74	0.032036	6.02	15.35	25.36	1.90
asta principale	23	Hi1	76.27	277.21	278.50	278.92	279.88	0.032025	6.25	16.94	26.30	1.92
asta principale	22	Hi4	52.29	269.36	270.26	270.37	270.69	0.027892	4.41	18.69	42.96	1.59
asta principale	22	Hi3	59.53	269.36	270.30	270.42	270.77	0.028077	4.56	20.25	43.23	1.60
asta principale	22	Hi2	66.76	269.36	270.33	270.47	270.84	0.028186	4.69	21.75	43.49	1.62
asta principale	22	Hi1	76.27	269.36	270.37	270.53	270.93	0.028317	4.86	23.63	43.81	1.63
asta principale	21.7	Hi4	52.29	267.13	268.19	268.19	268.45	0.013216	3.11	24.02	45.77	1.09
asta principale	21.7	Hi3	59.53	267.13	268.24	268.24	268.52	0.012960	3.20	26.24	46.24	1.09
asta principale	21.7	Hi2	66.76	267.13	268.28	268.28	268.58	0.012874	3.30	28.29	46.66	1.09
asta principale	21.7	Hi1	76.27	267.13	268.34	268.34	268.66	0.012851	3.42	30.80	47.10	1.10
asta principale	21	Hi4	52.29	260.44	261.40	261.58	261.98	0.048049	4.46	15.90	42.91	1.88
asta principale	21	Hi3	59.53	260.44	261.44	261.63	262.05	0.047101	4.53	17.56	44.44	1.87
asta principale	21	Hi2	66.76	260.44	261.48	261.67	262.12	0.045989	4.58	19.21	45.91	1.87
asta principale	21	Hi1	76.27	260.44	261.52	261.72	262.20	0.044857	4.65	21.31	47.73	1.86
asta principale	20	Hi4	52.29	245.28	246.46	246.81	247.60	0.034627	6.18	12.73	22.20	1.94
asta principale	20	Hi3	59.53	245.28	246.52	246.88	247.72	0.034436	6.39	13.99	22.68	1.95
asta principale	20	Hi2	66.76	245.28	246.57	246.95	247.83	0.034261	6.58	15.20	23.13	1.96
asta principale	20	Hi1	76.27	245.28	246.64	247.04	247.97	0.034070	6.81	16.73	23.68	1.98
asta principale	19	Hi4	52.29	241.39	245.81	246.01	246.43	0.004168	5.23	29.10	44.31	0.86
asta principale	19	Hi3	59.53	241.39	245.87	246.07	246.49	0.004367	5.41	31.90	45.43	0.88
asta principale	19	Hi2	66.76	241.39	245.93	246.09	246.55	0.004580	5.59	34.29	45.75	0.90
asta principale	19	Hi1	76.27	241.39	245.99	246.16	246.63	0.004850	5.82	37.18	46.10	0.93
asta principale	18.6		Culvert									
asta principale	18.5	Hi4	52.29	241.09	245.71	245.71	245.99	0.002106	3.85	38.32	46.24	0.61
asta principale	18.5	Hi3	59.53	241.09	245.77	245.77	246.07	0.002291	4.05	40.93	46.56	0.64
asta principale	18.5	Hi2	66.76	241.09	245.79	245.79	246.14	0.002707	4.42	41.89	46.68	0.70

HEC-RAS Plan: 01 River: Rio Caredda Reach: asta principale (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
asta principale	18.5	Hi1	76.27	241.09	245.86	245.86	246.22	0.002908	4.63	45.01	47.06	0.73
asta principale	18	Hi4	52.29	240.58	242.03	243.03	245.53	0.081072	8.29	6.31	7.12	2.80
asta principale	18	Hi3	59.53	240.58	242.16	243.14	245.60	0.069400	8.23	7.25	7.51	2.63
asta principale	18	Hi2	66.76	240.58	242.29	243.26	245.67	0.060319	8.15	8.24	7.89	2.49
asta principale	18	Hi1	76.27	240.58	242.44	243.38	245.76	0.050065	8.09	9.66	10.52	2.32
asta principale	17	Hi4	52.29	235.76	237.96	238.49	240.36	0.036500	8.97	11.22	21.50	2.11
asta principale	17	Hi3	59.53	235.76	238.00	238.57	240.59	0.039557	9.48	12.14	22.21	2.20
asta principale	17	Hi2	66.76	235.76	238.04	238.63	240.83	0.042679	9.97	12.98	22.84	2.29
asta principale	17	Hi1	76.27	235.76	238.07	238.72	241.18	0.047484	10.66	13.91	23.51	2.43
asta principale	16.5		Culvert									
asta principale	16	Hi4	52.29	235.95	238.22	238.22	238.62	0.005862	4.09	23.05	26.42	0.91
asta principale	16	Hi3	59.53	235.95	238.31	238.31	238.73	0.005963	4.23	25.33	27.61	0.92
asta principale	16	Hi2	66.76	235.95	238.38	238.38	238.83	0.006093	4.38	27.47	28.67	0.94
asta principale	16	Hi1	76.27	235.95	238.48	238.48	238.95	0.006033	4.49	30.51	29.97	0.94
asta principale	15.8	Hi4	52.29	232.20	234.00	234.38	235.29	0.050723	6.16	11.26	19.76	1.67
asta principale	15.8	Hi3	59.53	232.20	234.06	234.46	235.42	0.050489	6.32	12.42	20.67	1.68
asta principale	15.8	Hi2	66.76	232.20	234.11	234.54	235.54	0.050500	6.47	13.51	21.37	1.69
asta principale	15.8	Hi1	76.27	232.20	234.17	234.62	235.69	0.050727	6.66	14.88	22.22	1.70
asta principale	15	Hi4	52.29	215.59	217.50	217.93	219.03	0.036817	6.53	11.39	19.31	1.74
asta principale	15	Hi3	59.53	215.59	217.56	218.01	219.14	0.036785	6.72	12.66	19.80	1.75
asta principale	15	Hi2	66.76	215.59	217.62	218.09	219.24	0.036755	6.90	13.86	20.25	1.76
asta principale	15	Hi1	76.27	215.59	217.69	218.18	219.38	0.036745	7.11	15.36	20.81	1.78
asta principale	14	Hi4	52.29	208.44	209.81	210.27	211.25	0.026754	5.31	9.92	10.24	1.65
asta principale	14	Hi3	59.53	208.44	209.90	210.41	211.47	0.026815	5.57	10.85	10.76	1.67
asta principale	14	Hi2	66.76	208.44	209.98	210.54	211.68	0.026802	5.79	11.77	11.24	1.68
asta principale	14	Hi1	76.27	208.44	210.08	210.71	211.95	0.027086	6.09	12.91	11.82	1.70
asta principale	13	Hi4	52.29	200.54	201.50	201.63	201.96	0.035511	3.65	17.49	42.11	1.42

HEC-RAS Plan: 01 River: Rio Caredda Reach: asta principale (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
asta principale	13	Hi3	59.53	200.54	201.54	201.68	202.04	0.034744	3.71	19.11	42.46	1.41
asta principale	13	Hi2	66.76	200.54	201.57	201.72	202.11	0.034169	3.77	20.61	42.54	1.40
asta principale	13	Hi1	76.27	200.54	201.62	201.78	202.20	0.033618	3.86	22.47	42.64	1.40
asta principale	12	Hi4	52.29	194.50	196.72	196.97	197.58	0.032409	5.27	15.03	29.92	1.20
asta principale	12	Hi3	59.53	194.50	196.77	197.04	197.64	0.032676	5.35	16.52	30.26	1.20
asta principale	12	Hi2	66.76	194.50	196.82	197.10	197.70	0.032915	5.42	17.91	30.58	1.21
asta principale	12	Hi1	76.27	194.50	196.87	197.15	197.79	0.033172	5.50	19.65	30.96	1.21
asta principale	11.15	Hi4	52.29	182.28	183.45	183.62	184.19	0.015748	3.81	13.89	16.06	1.29
asta principale	11.15	Hi3	59.53	182.28	183.51	183.71	184.35	0.016473	4.05	14.87	16.19	1.33
asta principale	11.15	Hi2	66.76	182.28	183.57	183.80	184.50	0.017204	4.29	15.77	16.30	1.37
asta principale	11.15	Hi1	76.27	182.28	183.64	183.92	184.70	0.018019	4.57	16.92	16.45	1.41
asta principale	11.05	Hi4	52.29	180.84	181.78	182.00	182.60	0.021089	4.02	13.12	17.33	1.46
asta principale	11.05	Hi3	59.53	180.84	181.83	182.09	182.75	0.021699	4.26	14.11	17.43	1.50
asta principale	11.05	Hi2	66.76	180.84	181.89	182.18	182.90	0.022091	4.48	15.07	17.54	1.52
asta principale	11.05	Hi1	76.27	180.84	181.96	182.29	183.09	0.022501	4.74	16.29	17.66	1.56
asta principale	11	Hi4	52.29	180.10	180.77	181.09	181.84	0.036183	4.59	11.48	18.58	1.85
asta principale	11	Hi3	59.53	180.10	180.83	181.17	181.99	0.035338	4.79	12.53	18.68	1.85
asta principale	11	Hi2	66.76	180.10	180.88	181.25	182.14	0.034829	4.98	13.51	18.76	1.86
asta principale	11	Hi1	76.27	180.10	180.95	181.36	182.33	0.034287	5.22	14.75	18.87	1.87
asta principale	10	Hi4	52.29	173.66	176.64	176.78	177.34	0.007396	4.24	17.45	17.48	0.82
asta principale	10	Hi3	59.53	173.66	176.68	176.88	177.52	0.008906	4.69	18.04	17.59	0.90
asta principale	10	Hi2	66.76	173.66	176.72	176.99	177.69	0.010150	5.06	18.84	17.75	0.97
asta principale	10	Hi1	76.27	173.66	176.78	177.12	177.91	0.011716	5.52	19.88	17.95	1.04
asta principale	9	Hi4	52.29	169.08	171.00	171.31	172.02	0.019725	5.12	12.93	15.03	1.40
asta principale	9	Hi3	59.53	169.08	171.09	171.42	172.17	0.019544	5.31	14.23	15.47	1.41
asta principale	9	Hi2	66.76	169.08	171.17	171.51	172.31	0.019368	5.48	15.50	15.88	1.42
asta principale	9	Hi1	76.27	169.08	171.27	171.64	172.49	0.019216	5.69	17.09	16.39	1.43
asta principale	8	Hi4	52.29	158.92	160.71	161.14	162.22	0.033784	6.47	11.81	20.45	1.73

HEC-RAS Plan: 01 River: Rio Caredda Reach: asta principale (Continued)

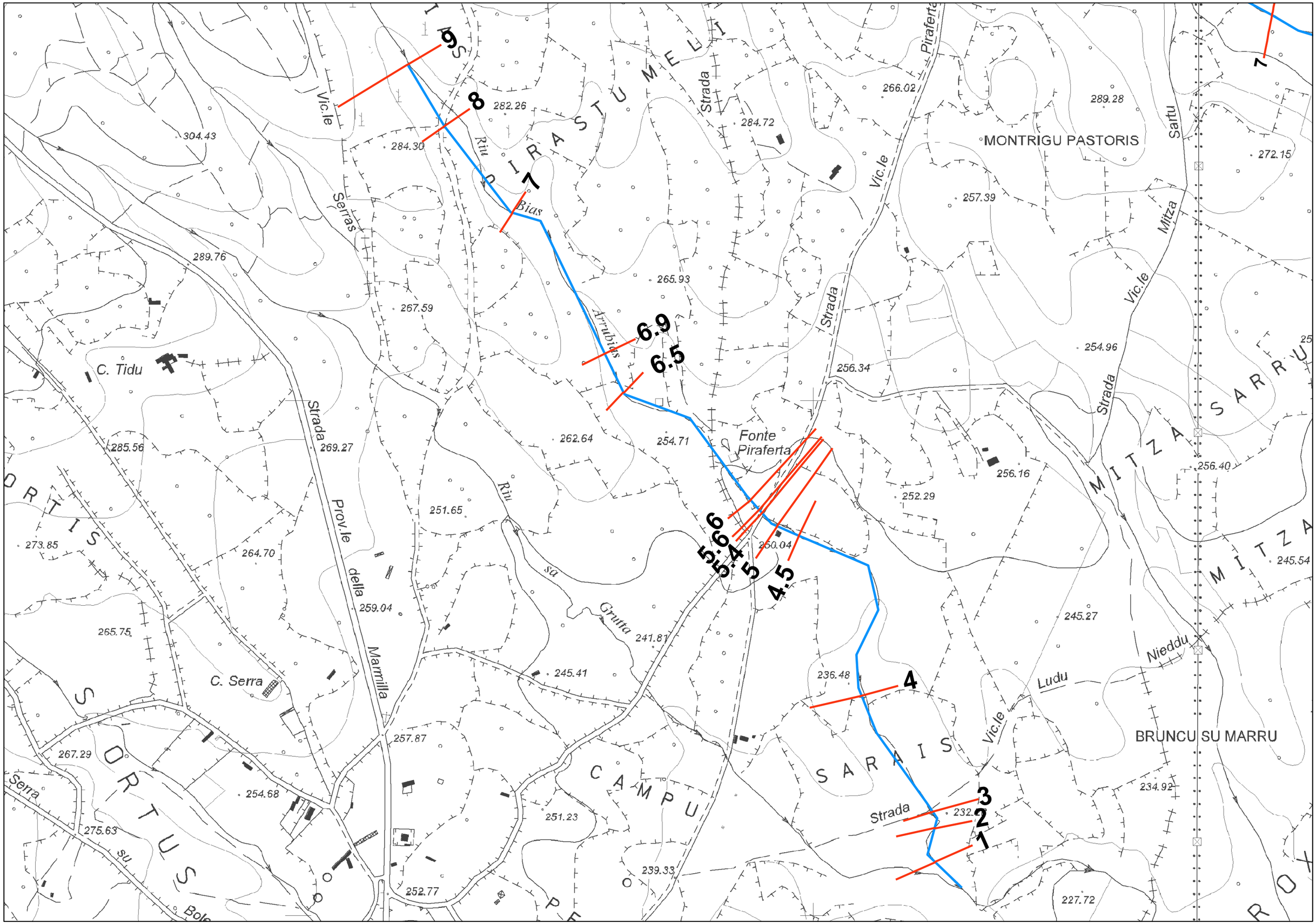
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
asta principale	8	Hi3	59.53	158.92	160.78	161.22	162.33	0.033817	6.66	13.09	20.95	1.74
asta principale	8	Hi2	66.76	158.92	160.83	161.26	162.43	0.033905	6.84	14.30	21.41	1.75
asta principale	8	Hi1	76.27	158.92	160.90	161.38	162.56	0.033832	7.04	15.86	21.99	1.77
asta principale	7	Hi4	52.29	158.05	161.08	161.02	161.29	0.004372	2.47	31.59	46.99	0.54
asta principale	7	Hi3	59.53	158.05	161.17	161.08	161.37	0.004045	2.45	35.99	47.66	0.52
asta principale	7	Hi2	66.76	158.05	160.89	161.13	161.62	0.014992	4.31	22.94	45.63	0.98
asta principale	7	Hi1	76.27	158.05	160.92	161.18	161.75	0.017265	4.67	24.32	45.84	1.06
asta principale	6.5		Bridge									
asta principale	6	Hi4	52.29	157.72	160.92	160.92	161.22	0.006449	2.86	25.66	36.22	0.65
asta principale	6	Hi3	59.53	157.72	160.98	160.98	161.30	0.006838	3.00	27.76	36.53	0.67
asta principale	6	Hi2	66.76	157.72	161.03	161.03	161.38	0.007209	3.13	29.68	36.82	0.69
asta principale	6	Hi1	76.27	157.72	161.10	161.10	161.47	0.007546	3.27	32.22	37.20	0.71
asta principale	5	Hi4	52.29	156.03	157.57	158.23	159.71	0.037443	7.00	9.21	12.53	2.02
asta principale	5	Hi3	59.53	156.03	157.67	158.34	159.79	0.033880	7.04	10.55	12.94	1.95
asta principale	5	Hi2	66.76	156.03	157.78	158.43	159.86	0.030880	7.06	11.90	13.34	1.88
asta principale	5	Hi1	76.27	156.03	157.91	158.54	159.97	0.027524	7.08	13.84	15.24	1.80
asta principale	4	Hi4	52.29	154.67	156.67	157.22	158.69	0.034178	7.23	8.97	9.98	1.77
asta principale	4	Hi3	59.53	154.67	156.80	157.22	158.86	0.031815	7.34	10.11	10.68	1.73
asta principale	4	Hi2	66.76	154.67	156.93	157.26	159.02	0.029697	7.43	11.26	11.35	1.69
asta principale	4	Hi1	76.27	154.67	157.10	157.31	159.21	0.027231	7.51	12.80	12.20	1.64
asta principale	3.5		Bridge									
asta principale	3	Hi4	52.29	154.35	157.11	157.37	157.92	0.017305	4.76	17.17	35.20	1.25
asta principale	3	Hi3	59.53	154.35	157.13	157.42	158.08	0.020125	5.18	17.96	35.31	1.35
asta principale	3	Hi2	66.76	154.35	157.15	157.46	158.23	0.022769	5.57	18.75	35.41	1.44
asta principale	3	Hi1	76.27	154.35	157.18	157.52	158.42	0.026011	6.03	19.78	35.54	1.54
asta principale	2	Hi4	52.29	144.15	145.90	146.43	147.67	0.030645	6.69	10.64	14.49	1.78
asta principale	2	Hi3	59.53	144.15	145.98	146.53	147.83	0.030694	6.93	11.77	14.89	1.79

HEC-RAS Plan: 01 River: Rio Caredda Reach: asta principale (Continued)

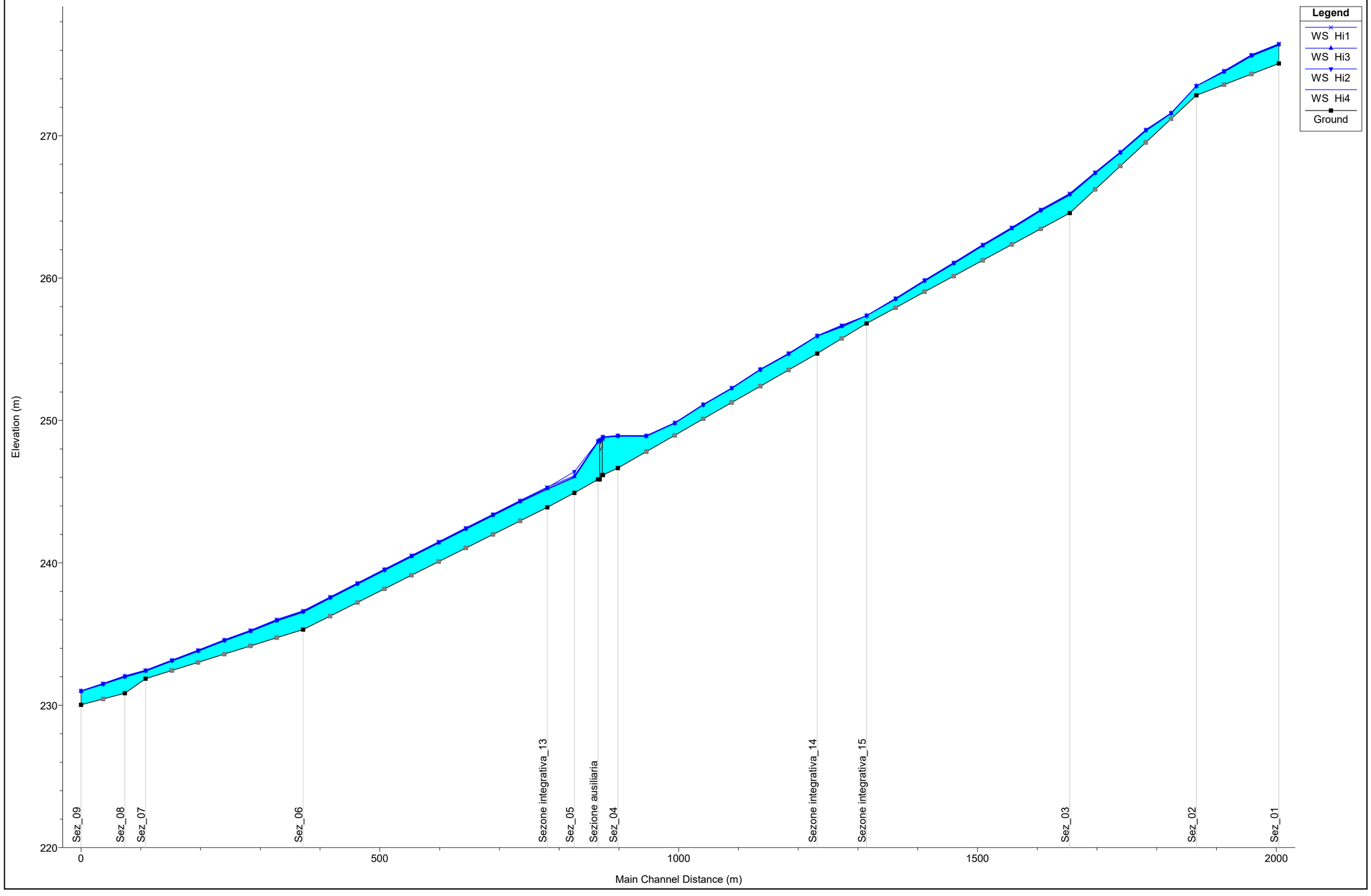
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
asta principale	2	Hi2	66.76	144.15	146.05	146.63	147.98	0.030708	7.15	12.86	15.26	1.81
asta principale	2	Hi1	76.27	144.15	146.14	146.75	148.17	0.030813	7.42	14.21	15.71	1.83
asta principale	1	Hi4	52.29	137.71	139.40	140.02	141.46	0.043306	7.44	9.39	12.30	2.09
asta principale	1	Hi3	59.53	137.71	139.49	140.04	141.63	0.041895	7.65	10.52	13.05	2.08
asta principale	1	Hi2	66.76	137.71	139.57	140.33	141.78	0.040747	7.85	11.64	13.74	2.07
asta principale	1	Hi1	76.27	137.71	139.67	140.44	141.96	0.039498	8.08	13.07	14.59	2.06

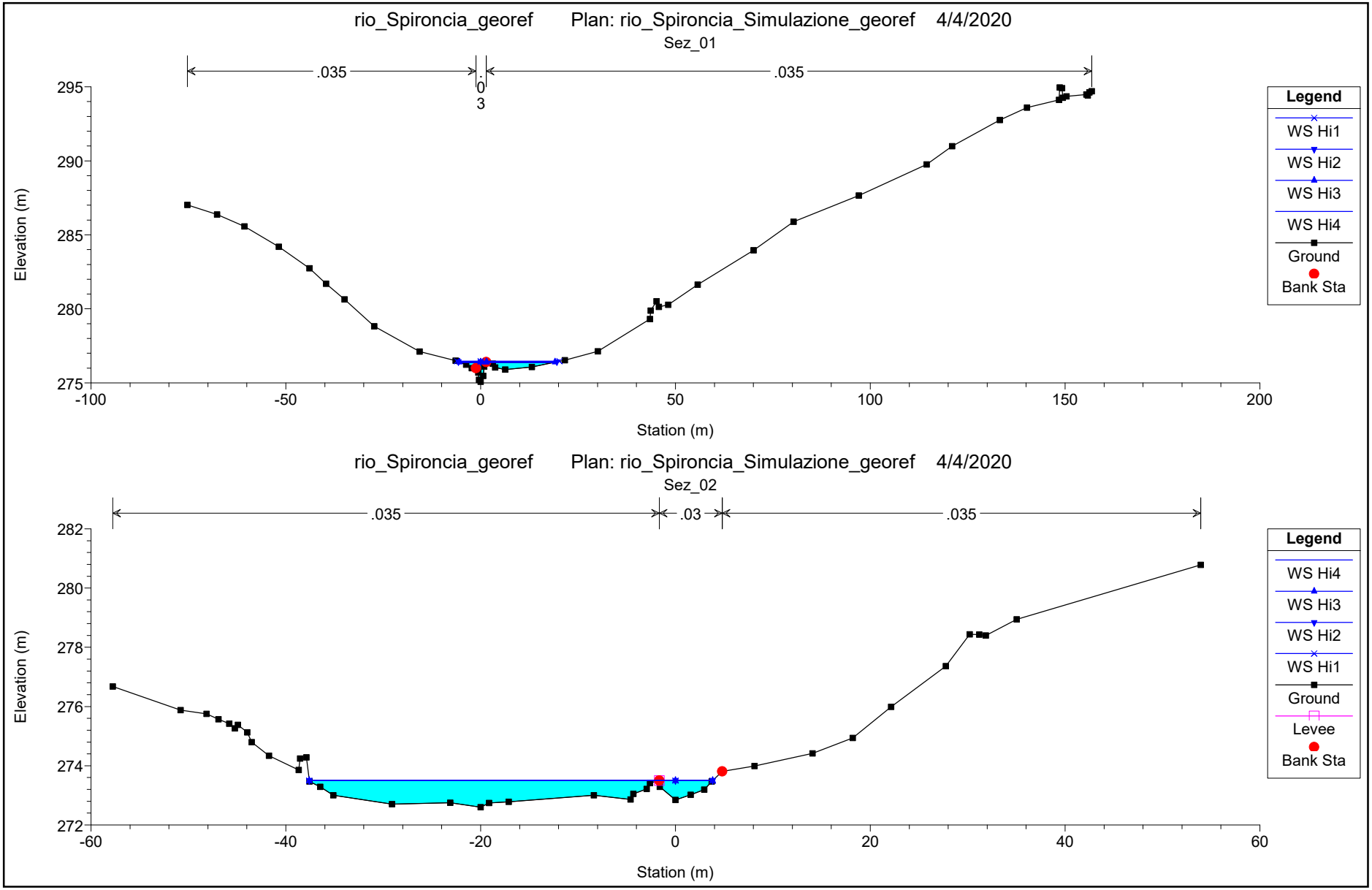
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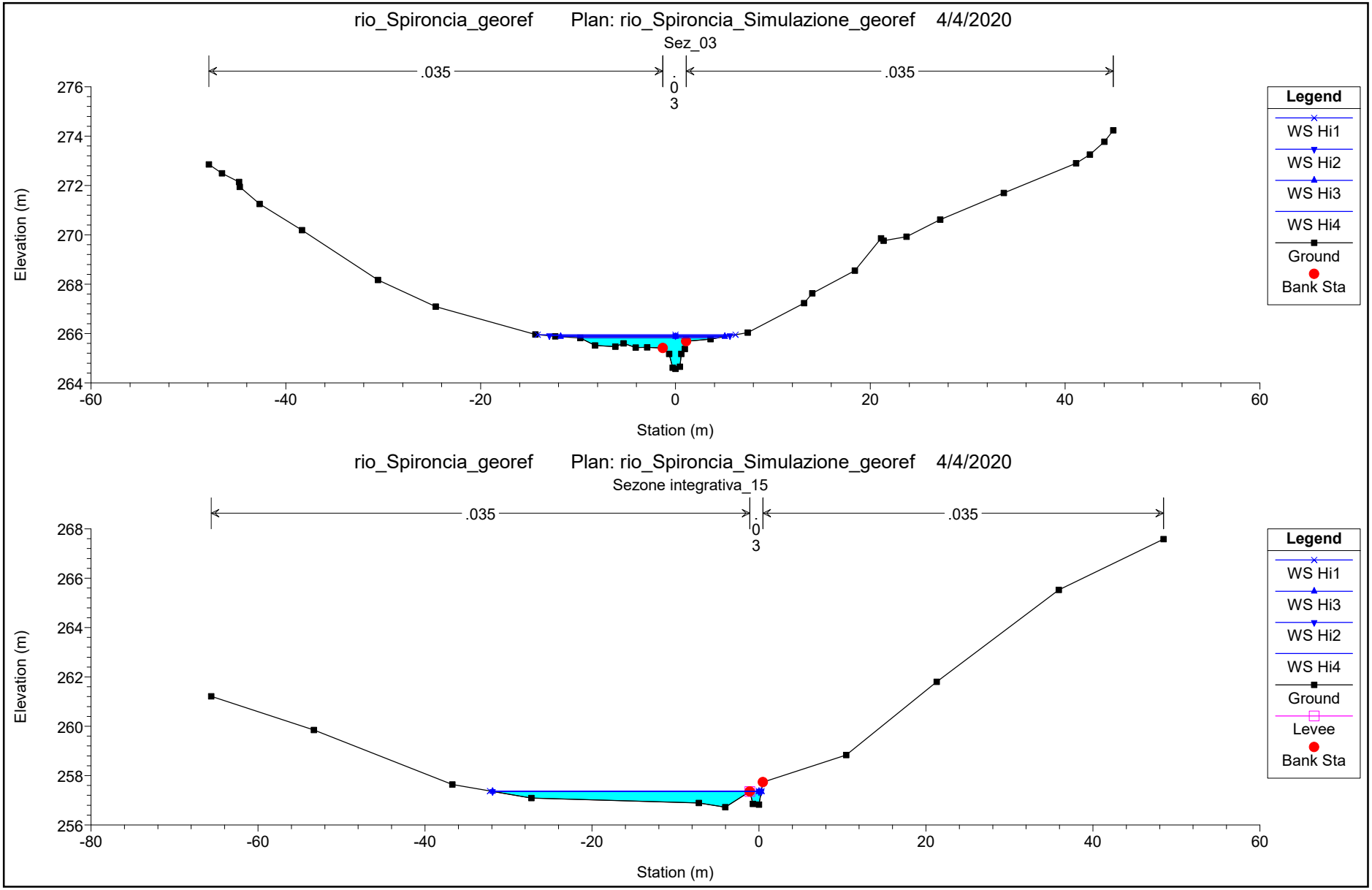
Profilo – Sezioni – Tabelle

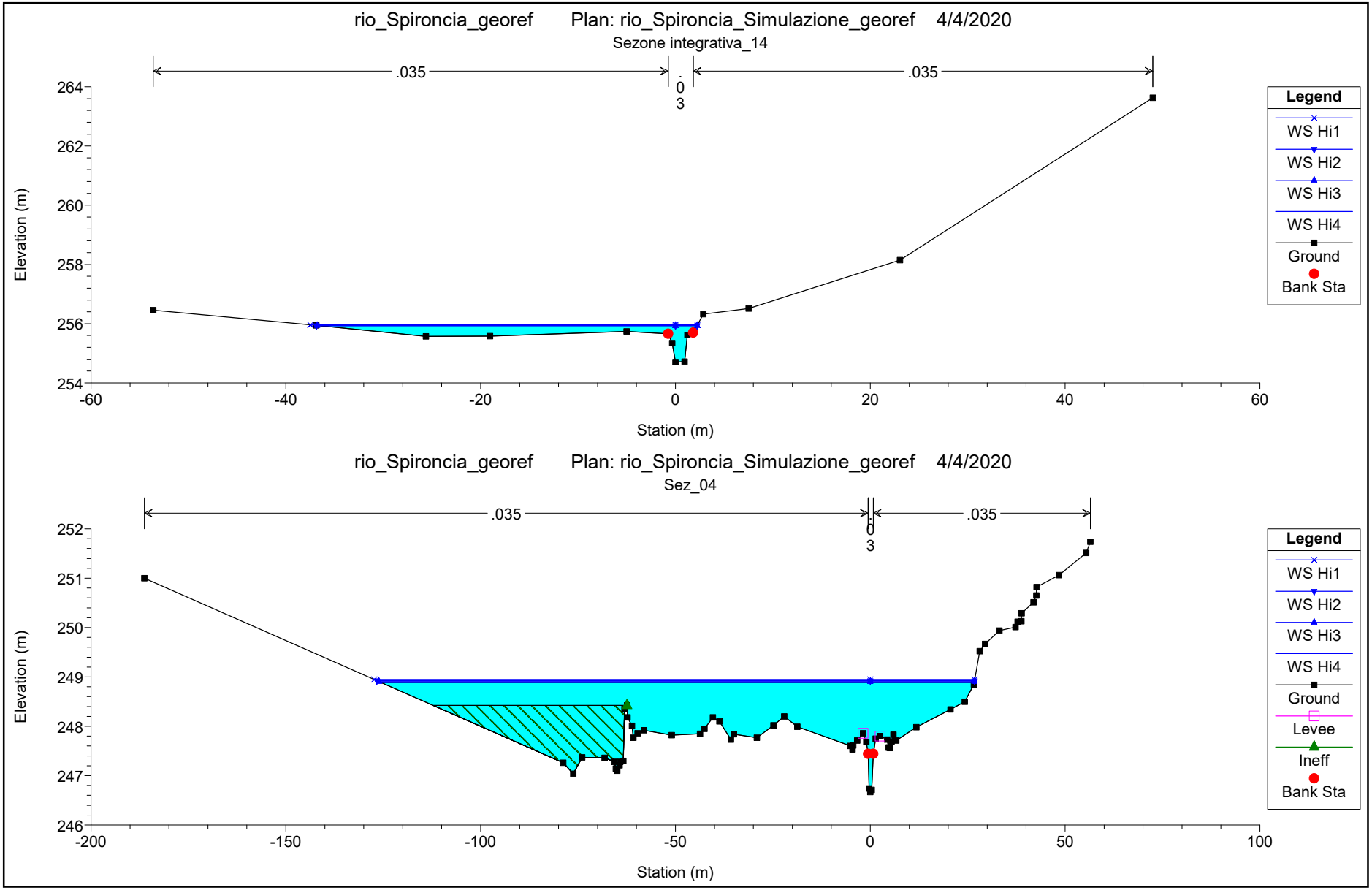

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Strada
Piraferta
Sartu
Mitza
Vic.le
Strada
Vic.le
Strada
Nieddu
Ludu
Vic.le
Strada
Serras
Bias
Arrubius
Fonte Piraferta
Riu
Riu
sa Grutta
Prov.le della Marmilla
Strada
su
Boe
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BRUNCU SU MARRU
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C. Serra
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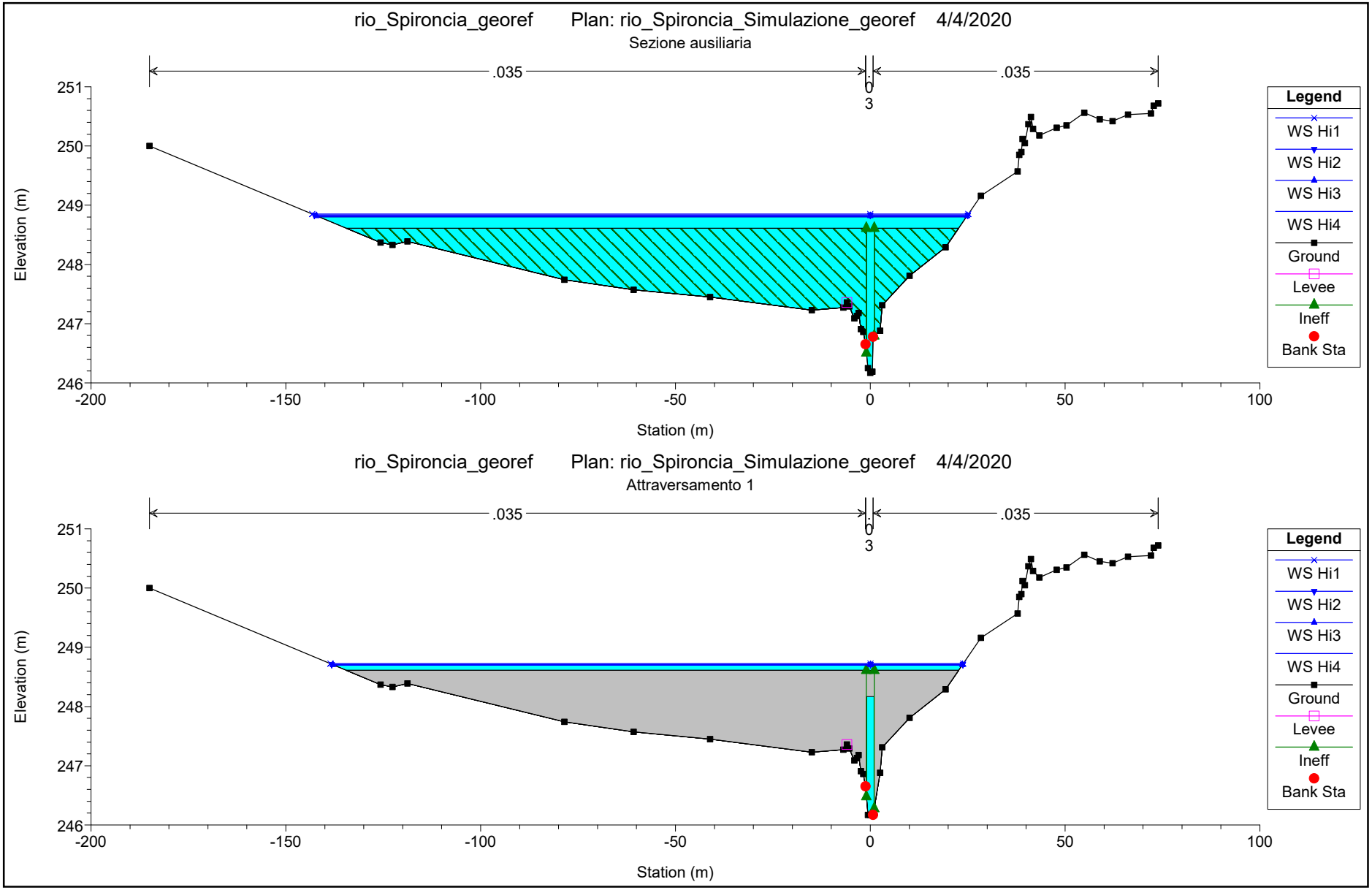
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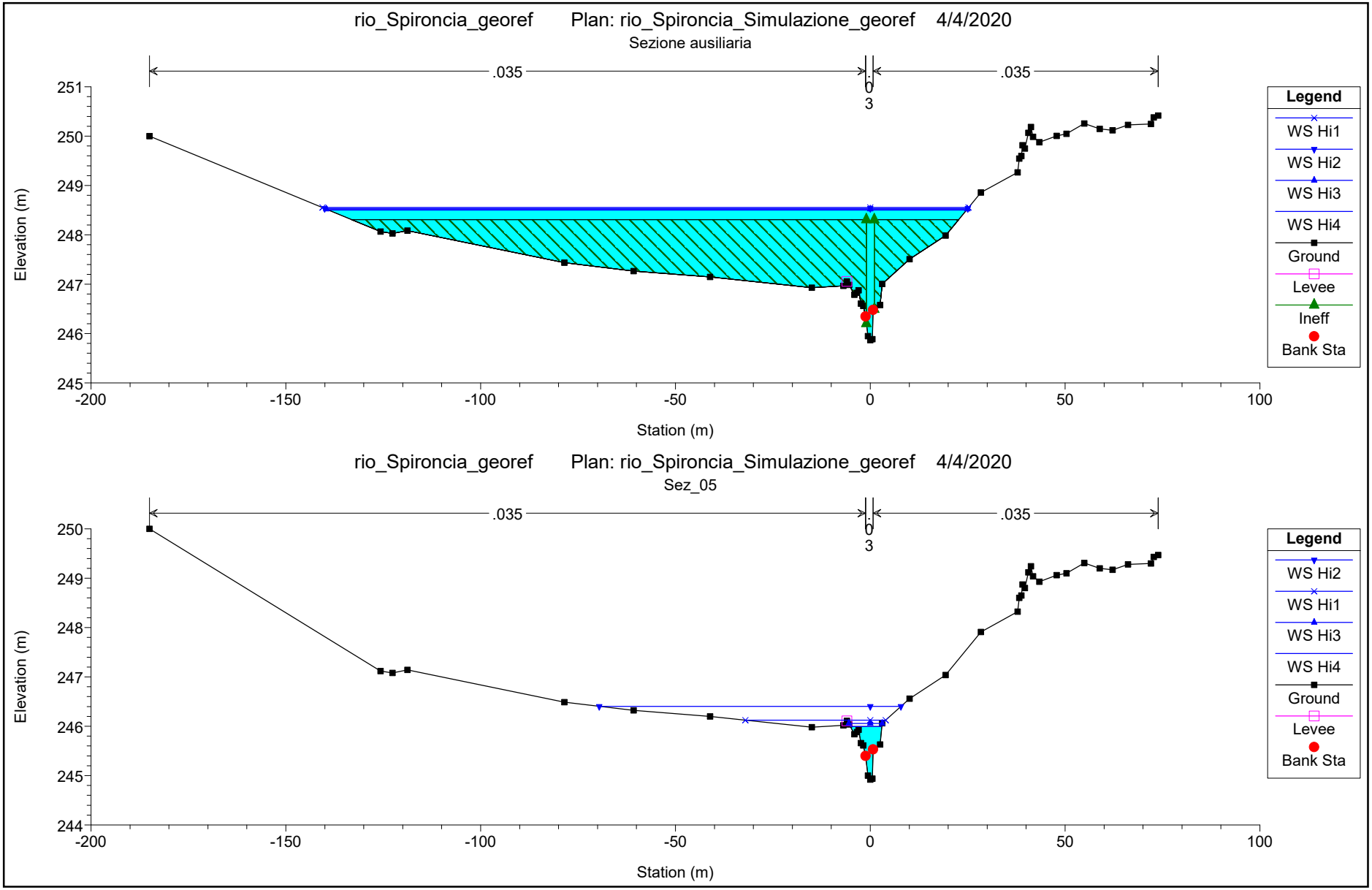


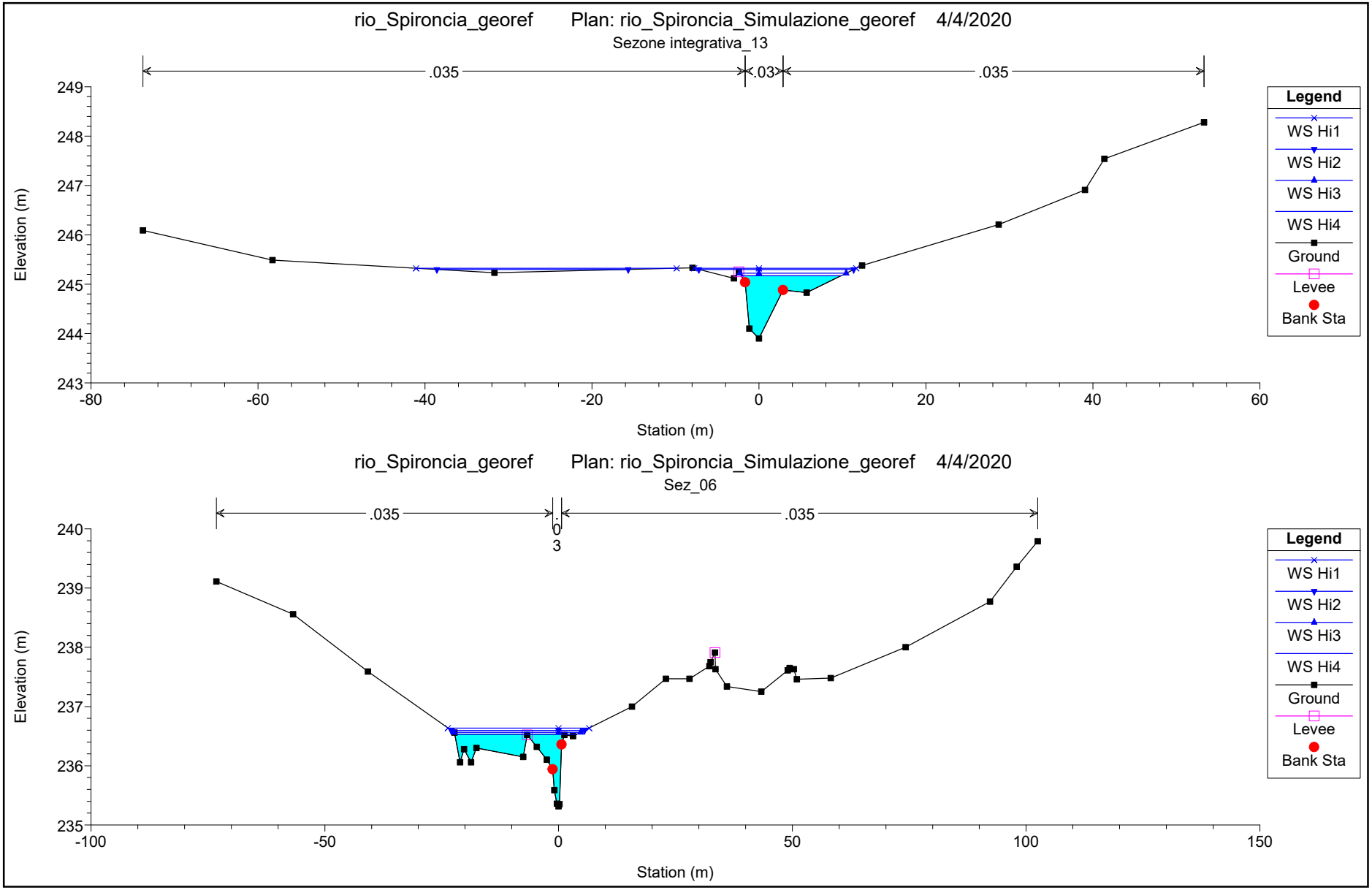

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.03
.035
Elevation (m)
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285
280
275
-100
-50
0
50
100
150
200
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
Sez_02
.035
.03
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Elevation (m)
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280
278
276
274
272
-60
-40
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20
40
60
Station (m)
Legend
WS Hi4
WS Hi3
WS Hi2
WS Hi1
Ground
Levee
Bank Sta

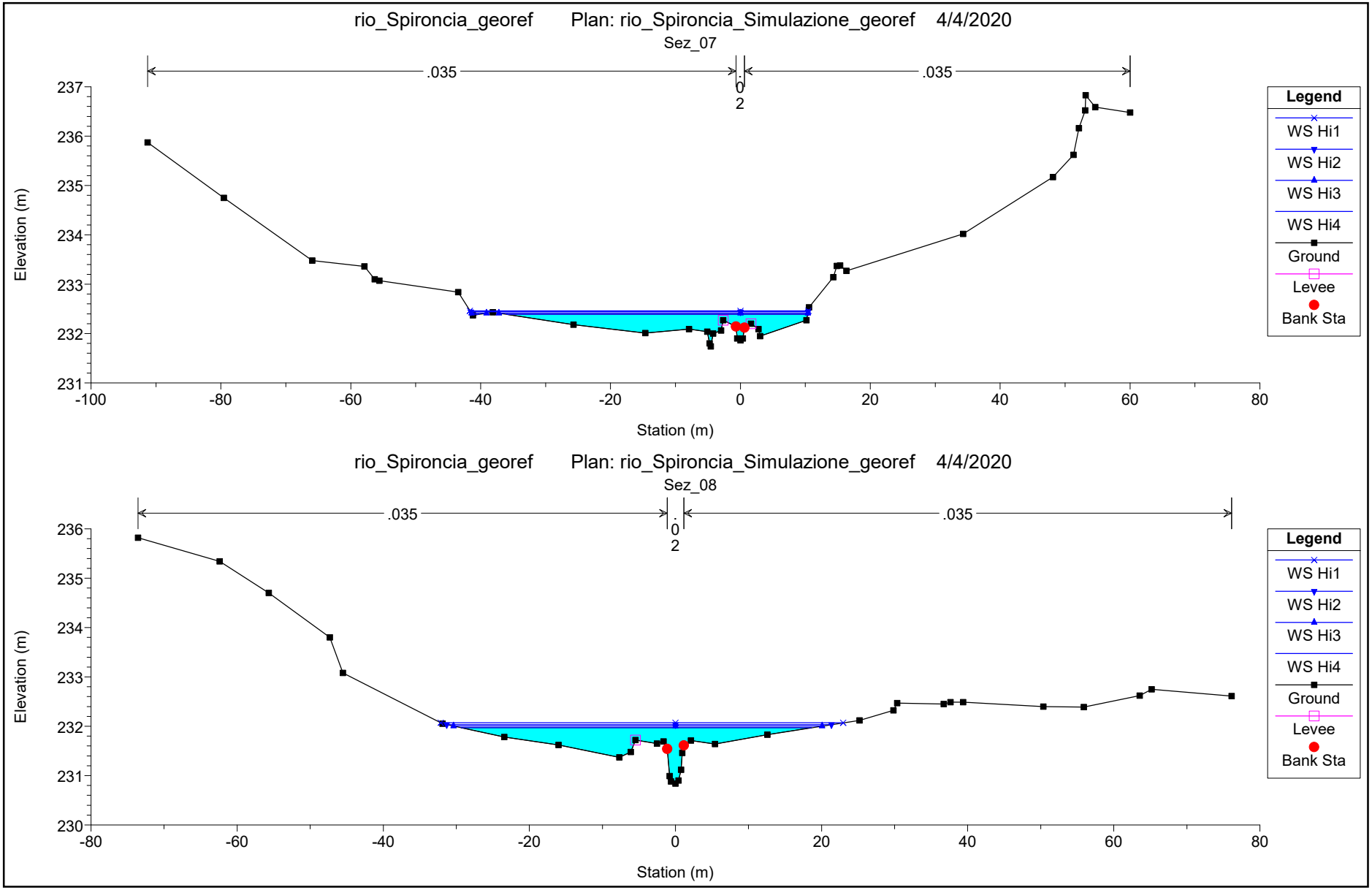

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.03
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
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Sezone integrativa_15
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.035
.03
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi3
WS Hi2
WS Hi4
Ground
Levee
Bank Sta

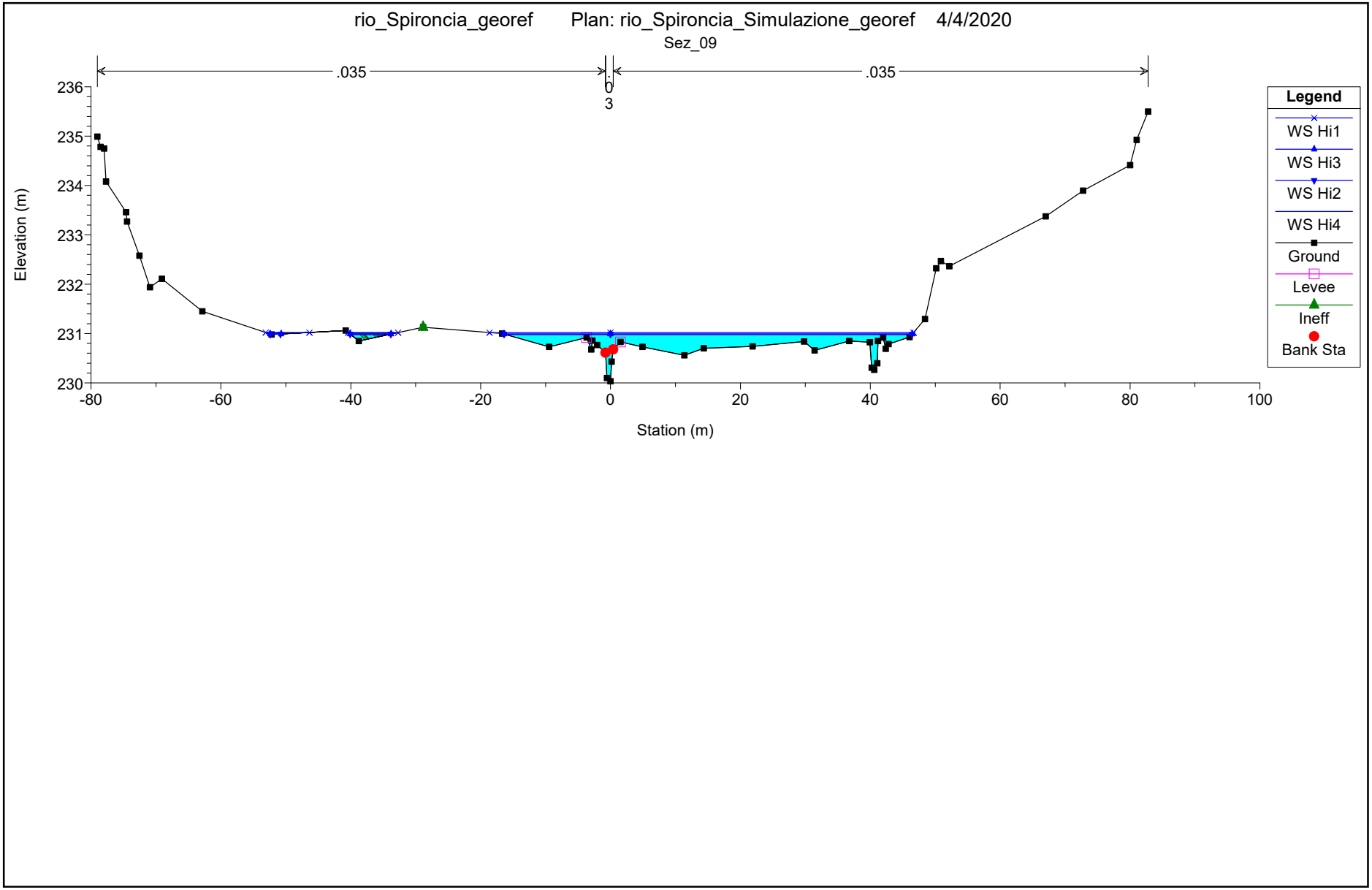

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Sezone integrativa_14
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.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
Sez_04
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta


rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
Sezione ausiliaria
.035
.035
0
3
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
Attraversamento 1
.035
.035
0
3
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta


rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
Sezione ausiliaria
.035
.035
0
3
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
Sez_05
.035
.035
0
3
Elevation (m)
Station (m)
Legend
WS Hi2
WS Hi1
WS Hi3
WS Hi4
Ground
Levee
Bank Sta


rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
Sezone integrativa_13
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.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
Sez_06
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.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta


rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
Sez_07
.035
.035
.02
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
Sez_08
.035
.035
.02
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta


rio_Spironcia_georef
Plan: rio_Spironcia_Simulazione_georef
4/4/2020
Sez_09
.035
.035
0.03
Elevation (m)
236
235
234
233
232
231
230
-80
-60
-40
-20
0
20
40
60
80
100
Station (m)
Legend
WS Hi1
WS Hi3
WS Hi2
WS Hi4
Ground
Levee
Ineff
Bank Sta

HEC-RAS Plan: 01 Locations: User Defined

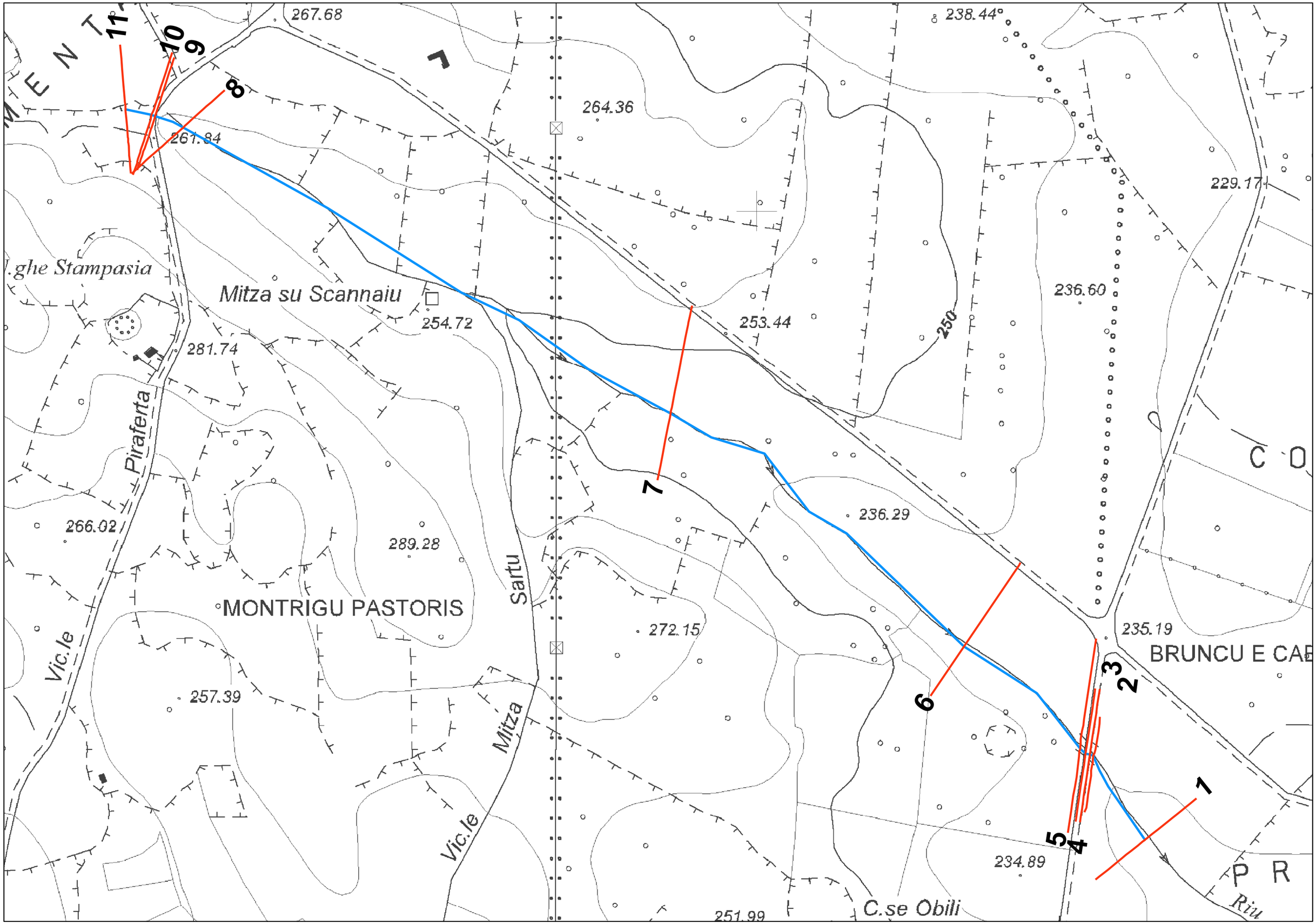
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Rio Arrubias	Arrubias	9	Hi4	15.56	275.08	276.37	276.45	276.67	0.022006	3.19	7.32	22.91	1.19
Rio Arrubias	Arrubias	9	Hi3	17.54	275.08	276.40	276.48	276.71	0.022014	3.24	8.10	24.40	1.19
Rio Arrubias	Arrubias	9	Hi2	19.51	275.08	276.43	276.51	276.74	0.022016	3.31	8.79	25.31	1.20
Rio Arrubias	Arrubias	9	Hi1	22.13	275.08	276.46	276.55	276.79	0.022011	3.41	9.65	26.25	1.21
Rio Arrubias	Arrubias	8	Hi4	15.56	272.84	273.50	273.50	273.52	0.000974	0.56	24.46	41.42	0.28
Rio Arrubias	Arrubias	8	Hi3	17.54	272.84	273.50	273.50	273.53	0.001237	0.63	24.46	41.42	0.31
Rio Arrubias	Arrubias	8	Hi2	19.51	272.84	273.50	273.50	273.53	0.001531	0.70	24.46	41.42	0.35
Rio Arrubias	Arrubias	8	Hi1	22.13	272.84	273.50	273.50	273.54	0.001970	0.79	24.46	41.42	0.39
Rio Arrubias	Arrubias	7	Hi4	15.56	264.57	265.83	266.07	266.51	0.036194	4.40	4.93	14.52	1.55
Rio Arrubias	Arrubias	7	Hi3	17.54	264.57	265.87	266.09	266.57	0.035766	4.54	5.66	16.85	1.56
Rio Arrubias	Arrubias	7	Hi2	19.51	264.57	265.91	266.12	266.62	0.035742	4.66	6.29	18.52	1.57
Rio Arrubias	Arrubias	7	Hi1	22.13	264.57	265.95	266.16	266.68	0.035702	4.79	7.09	20.31	1.58
Rio Arrubias	Arrubias	6.9	Hi4	15.56	256.82	257.36	257.36	257.46	0.009451	1.40	11.31	32.20	0.70
Rio Arrubias	Arrubias	6.9	Hi3	17.54	256.82	257.36	257.36	257.48	0.012009	1.57	11.31	32.20	0.79
Rio Arrubias	Arrubias	6.9	Hi2	19.51	256.82	257.36	257.36	257.51	0.014858	1.75	11.31	32.20	0.88
Rio Arrubias	Arrubias	6.9	Hi1	22.13	256.82	257.38	257.37	257.55	0.016482	1.88	11.87	32.51	0.93
Rio Arrubias	Arrubias	6.5	Hi4	15.56	254.70	255.93	255.94	256.06	0.010625	2.28	11.27	38.91	0.82
Rio Arrubias	Arrubias	6.5	Hi3	17.54	254.70	255.94	255.96	256.10	0.013145	2.54	11.37	39.00	0.92
Rio Arrubias	Arrubias	6.5	Hi2	19.51	254.70	255.94	255.98	256.13	0.015856	2.80	11.48	39.08	1.01
Rio Arrubias	Arrubias	6.5	Hi1	22.13	254.70	255.96	256.00	256.17	0.016982	2.95	12.26	39.75	1.05
Rio Arrubias	Arrubias	6	Hi4	19.14	246.67	248.89	248.06	248.89	0.000053	0.27	112.43	152.23	0.06
Rio Arrubias	Arrubias	6	Hi3	21.75	246.67	248.91	248.08	248.91	0.000063	0.30	115.42	152.84	0.07
Rio Arrubias	Arrubias	6	Hi2	24.37	246.67	248.92	248.10	248.93	0.000074	0.32	118.21	153.40	0.07
Rio Arrubias	Arrubias	6	Hi1	27.82	246.67	248.95	248.12	248.95	0.000088	0.36	121.66	154.10	0.08
Rio Arrubias	Arrubias	5.6	Hi4	19.14	246.17	248.81	248.81	248.88	0.001369	1.80	36.12	166.23	0.38
Rio Arrubias	Arrubias	5.6	Hi3	21.75	246.17	248.82	248.82	248.90	0.001498	1.89	38.79	166.98	0.40
Rio Arrubias	Arrubias	5.6	Hi2	24.37	246.17	248.84	248.84	248.91	0.001623	1.98	41.25	167.67	0.42
Rio Arrubias	Arrubias	5.6	Hi1	27.82	246.17	248.85	248.85	248.94	0.001821	2.10	43.86	168.40	0.44
Rio Arrubias	Arrubias	5.5		Bridge									
Rio Arrubias	Arrubias	5.4	Hi4	19.14	245.87	248.50	248.50	248.58	0.001400	1.82	35.55	163.81	0.39

HEC-RAS Plan: 01 Locations: User Defined (Continued)

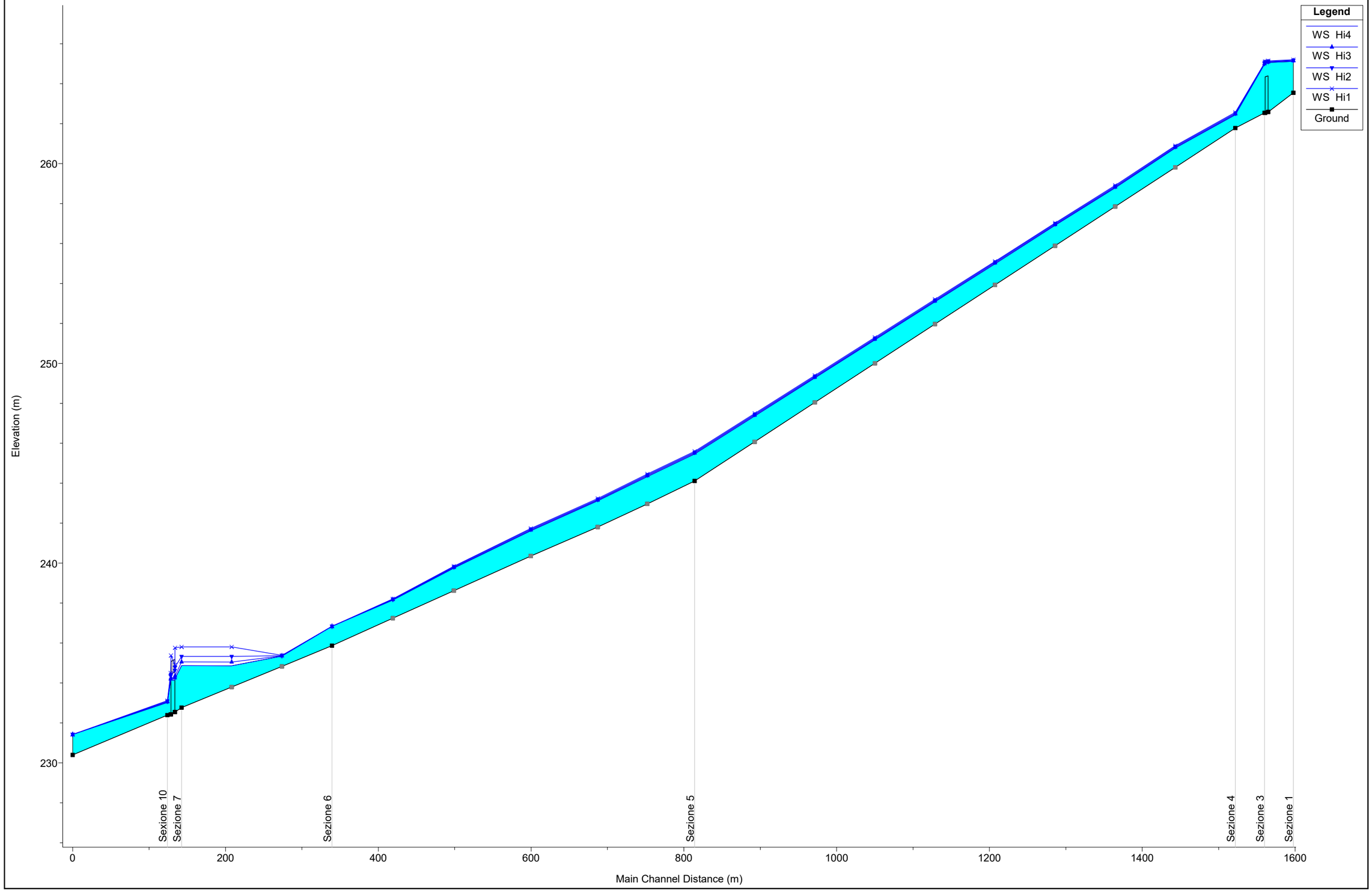
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Rio Arrubias	Arrubias	5.4	Hi3	21.75	245.87	248.52	248.52	248.60	0.001508	1.90	38.45	164.53	0.40
Rio Arrubias	Arrubias	5.4	Hi2	24.37	245.87	248.53	248.53	248.62	0.001663	2.00	40.60	165.07	0.42
Rio Arrubias	Arrubias	5.4	Hi1	27.82	245.87	248.55	248.55	248.64	0.001823	2.11	43.57	165.80	0.44
Rio Arrubias	Arrubias	5	Hi4	19.14	244.92	245.99	246.36	248.19	0.075926	7.45	3.48	8.05	2.46
Rio Arrubias	Arrubias	5	Hi3	21.75	244.92	246.06	246.38	248.21	0.070680	7.50	3.99	8.56	2.40
Rio Arrubias	Arrubias	5	Hi2	24.37	244.92	246.40	246.40	246.52	0.005310	2.51	22.99	77.47	0.69
Rio Arrubias	Arrubias	5	Hi1	27.82	244.92	246.12	246.43	248.22	0.073066	7.97	6.90	36.00	2.46
Rio Arrubias	Arrubias	4.5	Hi4	19.14	243.90	245.17	245.47	245.98	0.024199	4.23	5.51	11.93	1.46
Rio Arrubias	Arrubias	4.5	Hi3	21.75	243.90	245.22	245.51	246.07	0.024057	4.39	6.16	12.75	1.47
Rio Arrubias	Arrubias	4.5	Hi2	24.37	243.90	245.30	245.53	246.03	0.020021	4.22	8.37	41.51	1.36
Rio Arrubias	Arrubias	4.5	Hi1	27.82	243.90	245.32	245.56	246.15	0.022422	4.54	9.50	50.68	1.44
Rio Arrubias	Arrubias	4	Hi4	19.14	235.32	236.53	236.66	236.92	0.022571	3.80	8.27	26.14	1.24
Rio Arrubias	Arrubias	4	Hi3	21.75	235.32	236.56	236.70	236.96	0.022467	3.87	9.13	27.11	1.25
Rio Arrubias	Arrubias	4	Hi2	24.37	235.32	236.60	236.73	237.00	0.022373	3.95	10.03	28.50	1.25
Rio Arrubias	Arrubias	4	Hi1	27.82	235.32	236.64	236.77	237.06	0.022258	4.04	11.18	30.19	1.26
Rio Arrubias	Arrubias	3	Hi4	19.14	231.86	232.39	232.42	232.56	0.017208	3.54	12.01	47.32	1.66
Rio Arrubias	Arrubias	3	Hi3	21.75	231.86	232.41	232.46	232.59	0.017204	3.66	13.16	49.84	1.68
Rio Arrubias	Arrubias	3	Hi2	24.37	231.86	232.44	232.48	232.63	0.016992	3.78	14.59	51.95	1.68
Rio Arrubias	Arrubias	3	Hi1	27.82	231.86	232.46	232.50	232.67	0.017268	3.92	15.77	52.09	1.71
Rio Arrubias	Arrubias	2	Hi4	19.14	230.84	231.97	232.03	232.20	0.006726	3.27	14.37	48.00	1.09
Rio Arrubias	Arrubias	2	Hi3	21.75	230.84	232.00	232.07	232.23	0.006758	3.36	15.99	50.46	1.09
Rio Arrubias	Arrubias	2	Hi2	24.37	230.84	232.03	232.10	232.27	0.006829	3.44	17.51	52.68	1.11
Rio Arrubias	Arrubias	2	Hi1	27.82	230.84	232.07	232.13	232.31	0.006833	3.53	19.49	55.08	1.11
Rio Arrubias	Arrubias	1	Hi4	19.14	230.03	230.98	230.99	231.09	0.014575	2.41	14.36	68.68	0.89
Rio Arrubias	Arrubias	1	Hi3	21.75	230.03	230.99	231.00	231.12	0.016716	2.60	14.93	70.88	0.96
Rio Arrubias	Arrubias	1	Hi2	24.37	230.03	230.99	231.02	231.15	0.021178	2.92	14.89	70.71	1.08
Rio Arrubias	Arrubias	1	Hi1	27.82	230.03	231.02	231.04	231.18	0.019037	2.85	16.89	79.72	1.03

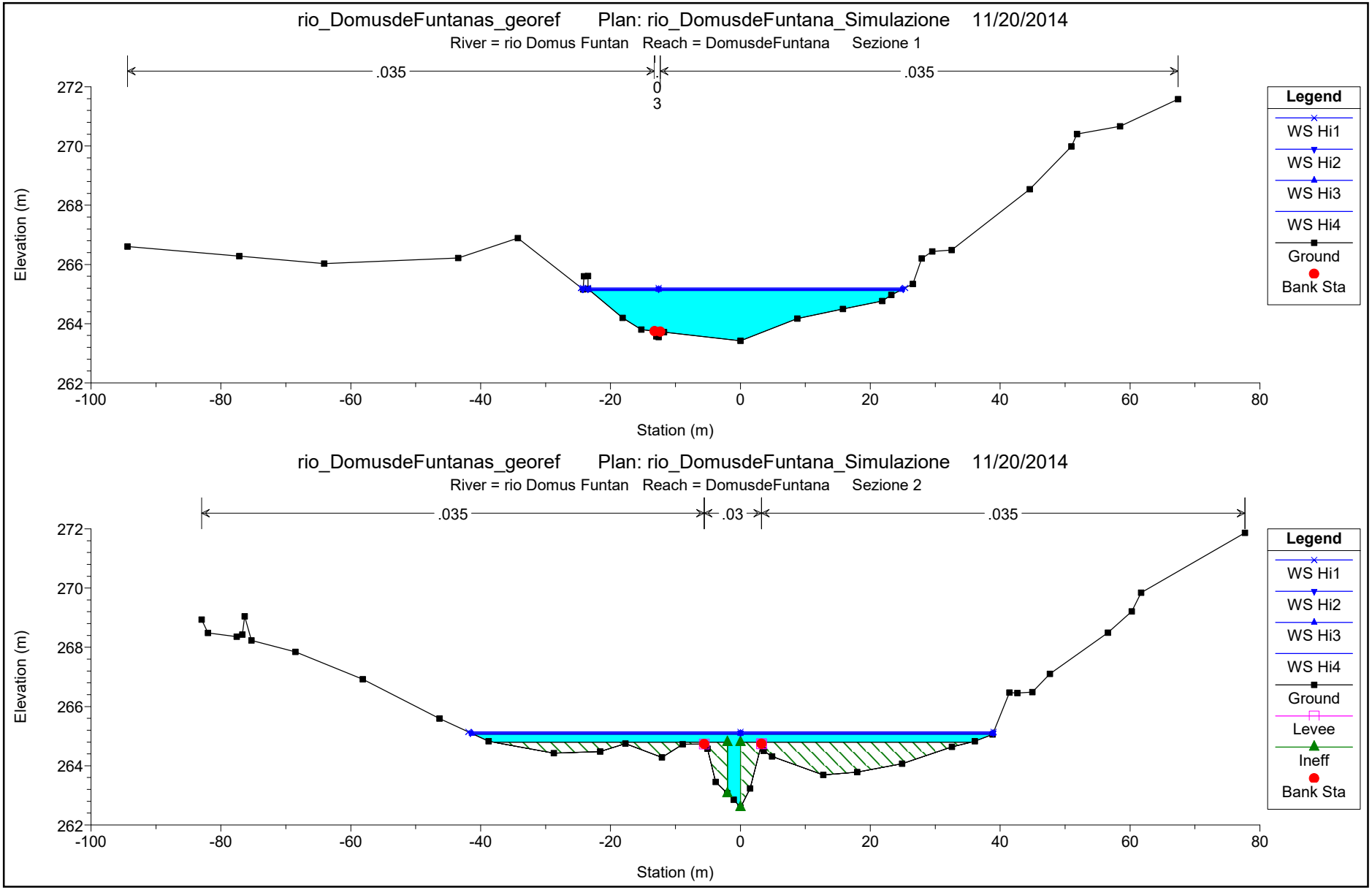
Rio Domus de funtanas

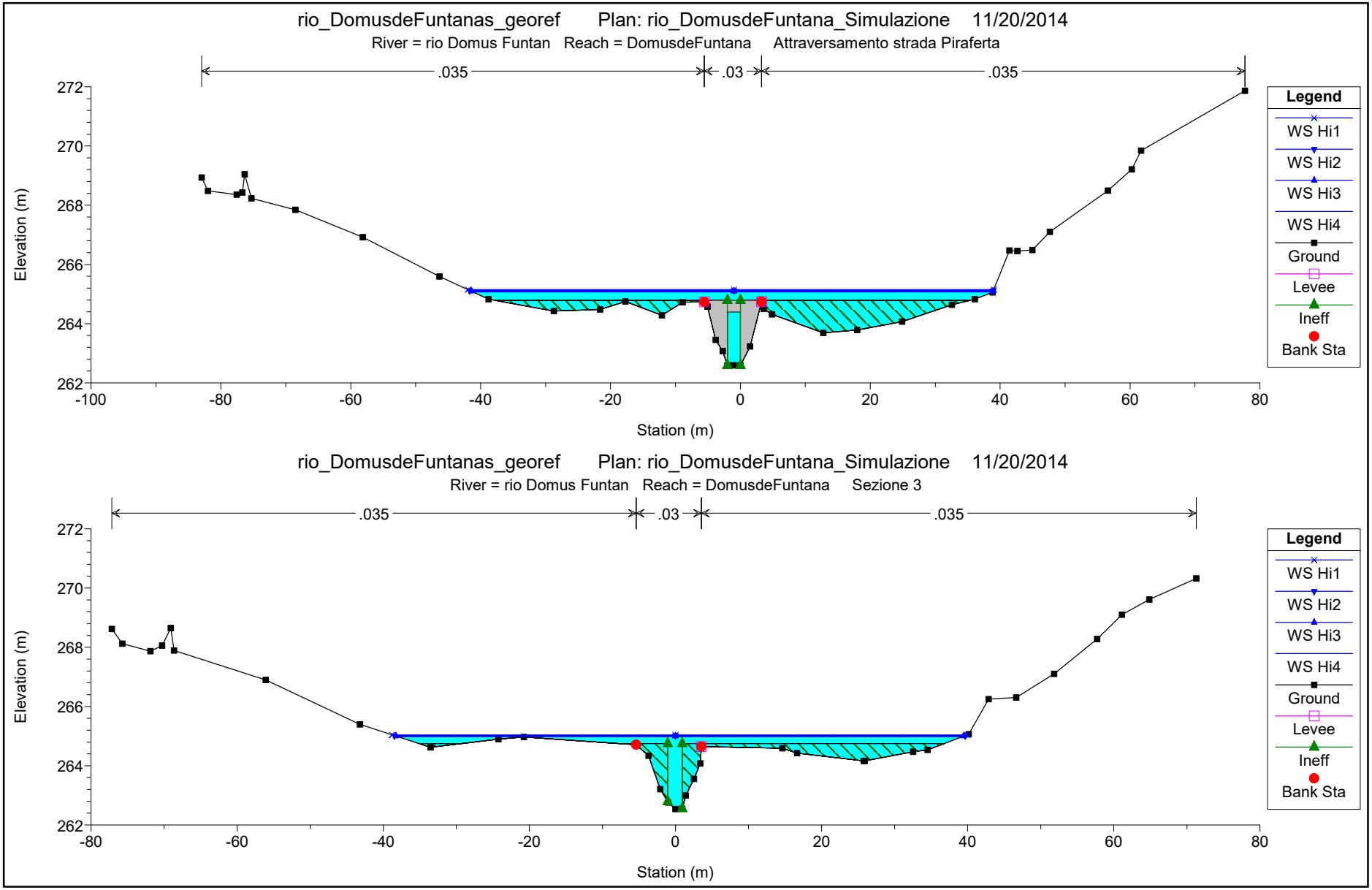
Profilo – Sezioni – Tabelle

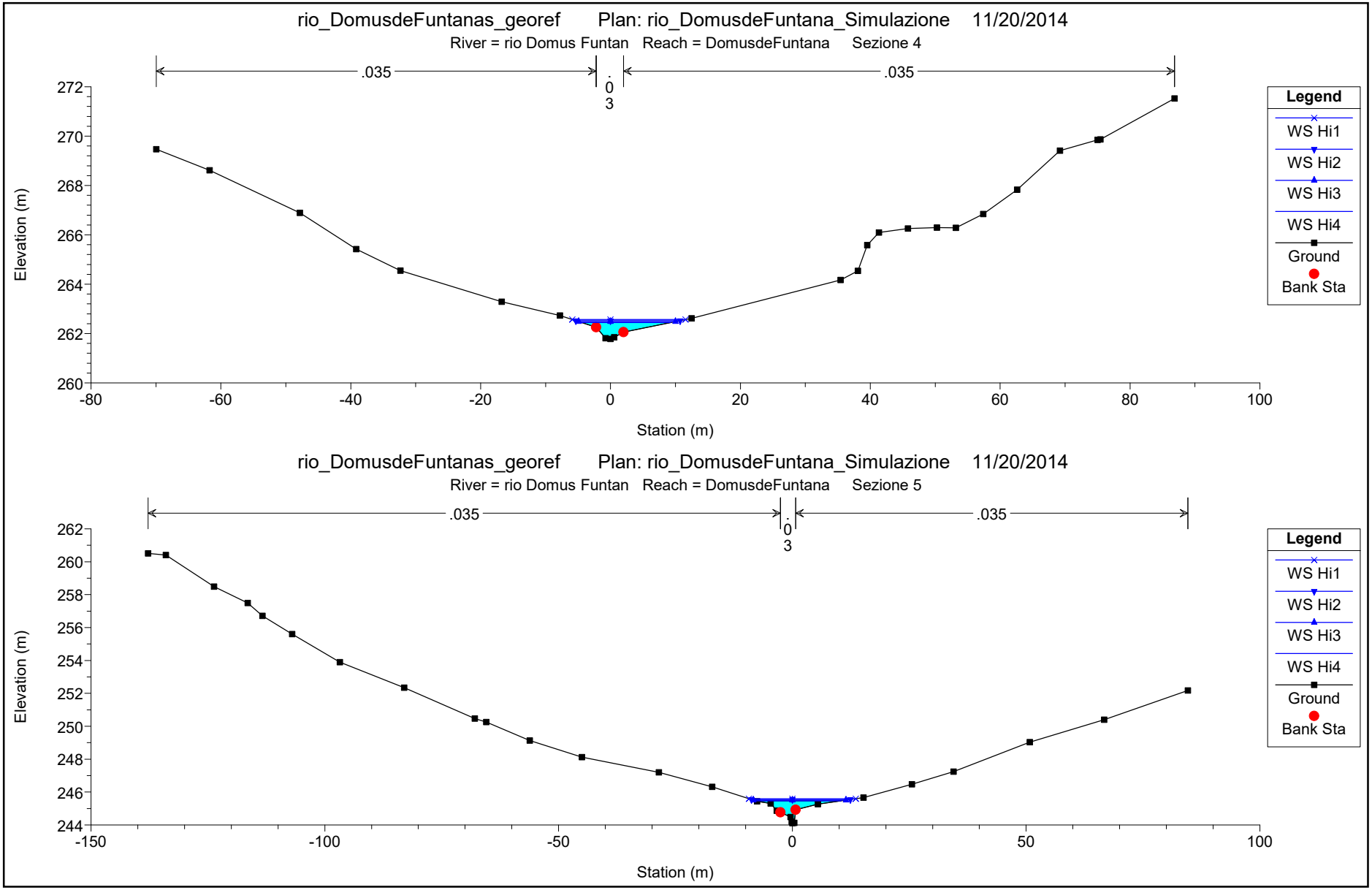

267.68
238.44°
264.36
261.84
229.17
Mitza su Scannaiu
254.72
253.44
250
236.60
281.74
236.29
266.02
289.28
MONTRIGU PASTORIS
Sartu
272.15
235.19
BRUNCU E CAE
257.39
Vic.le
Mitza
234.89
C.se Obili
251.99
Riu
11
10
9
8
7
6
5
4
3
2
1

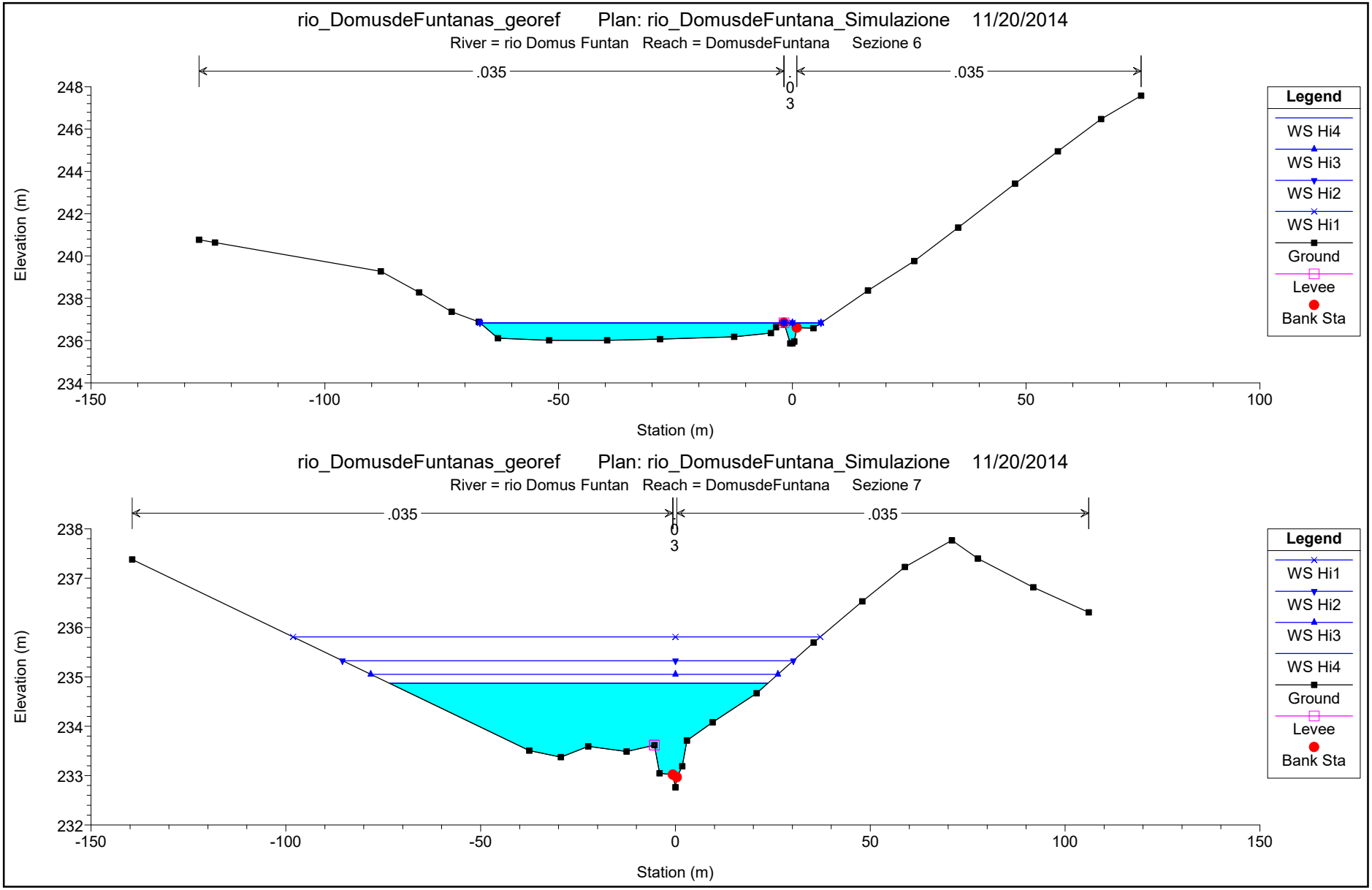
rio_DomusdeFuntanas_georef Plan: rio_DomusdeFuntana_Simulazione 11/20/2014

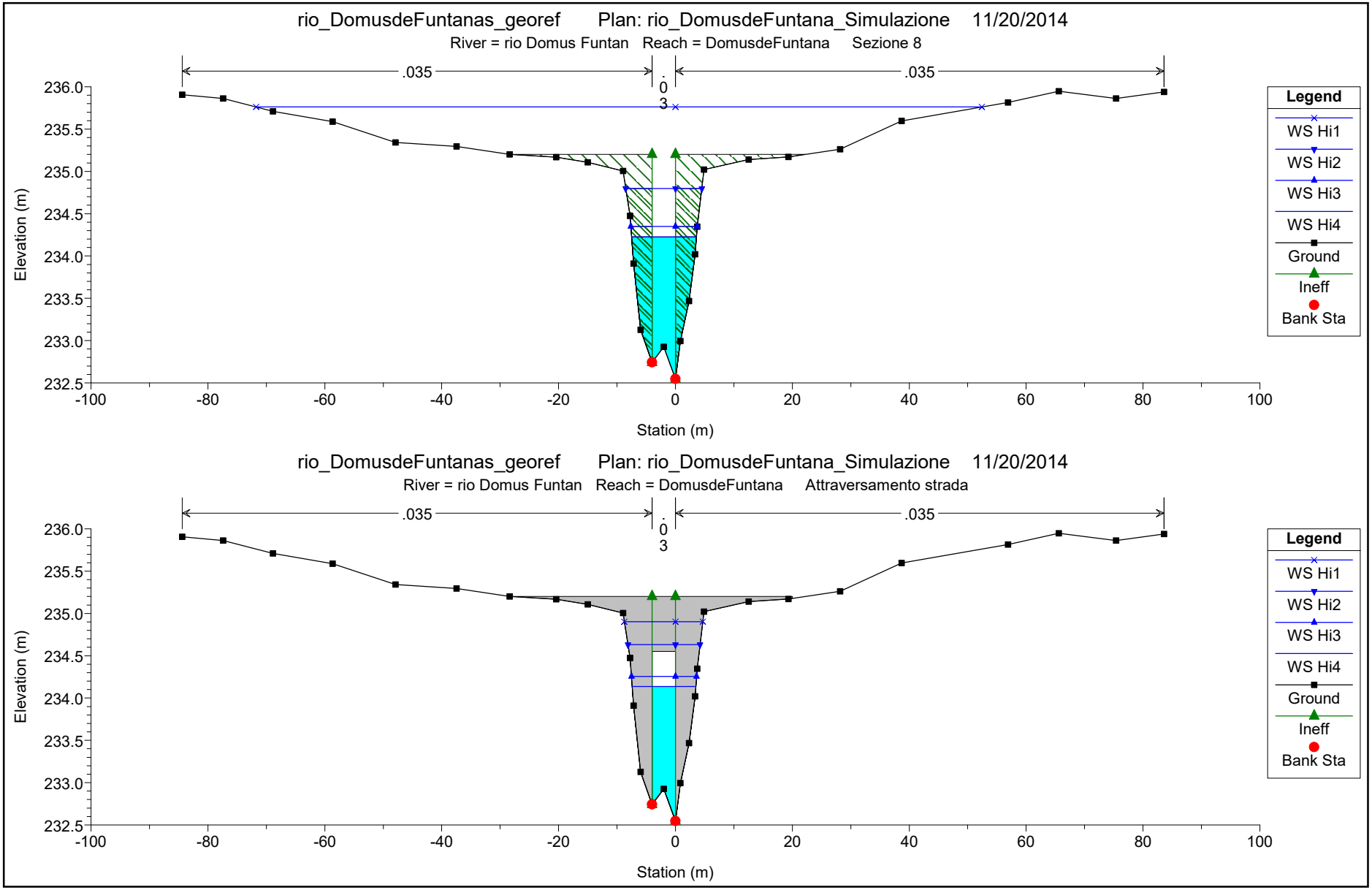


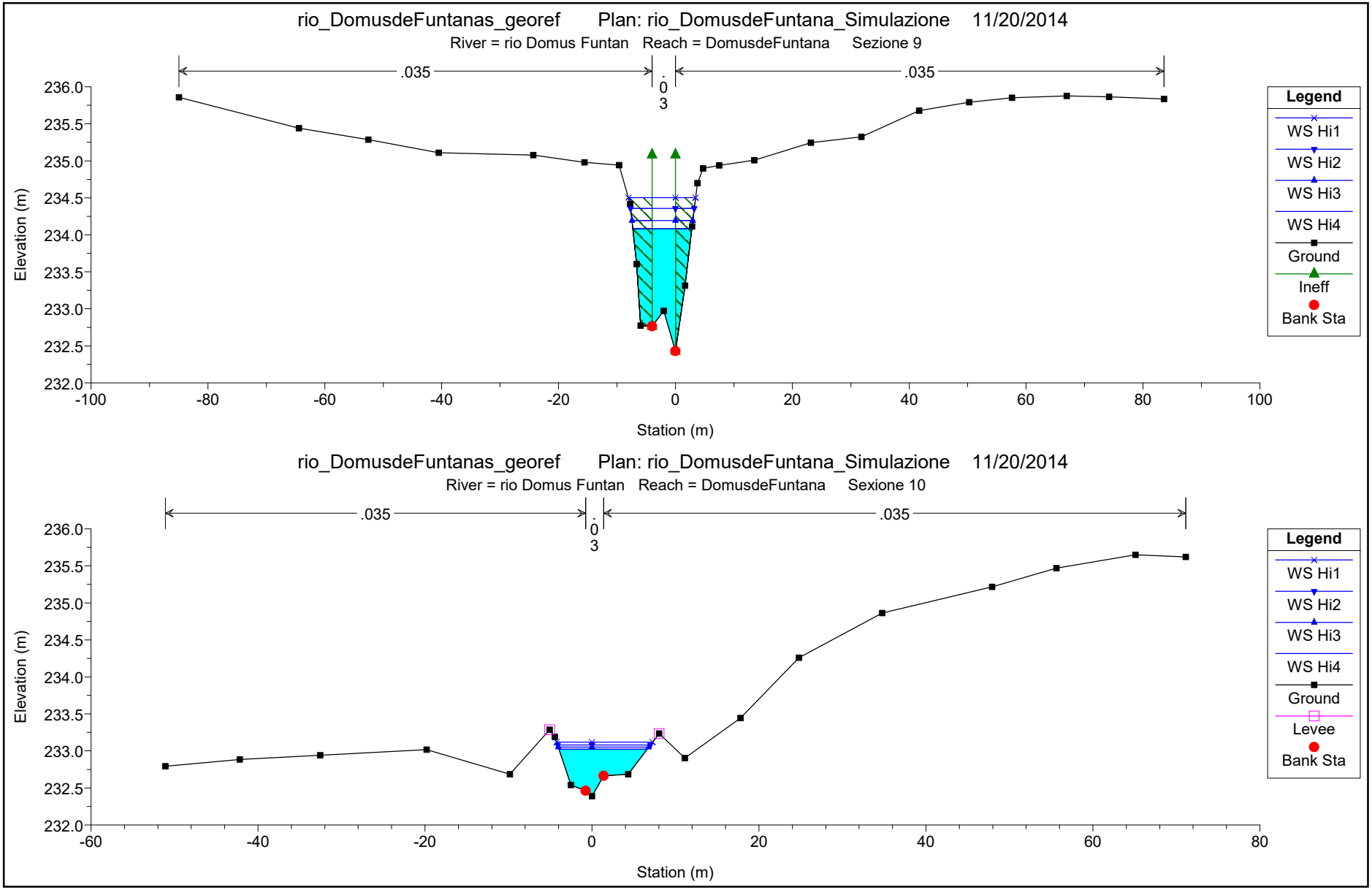

rio_DomusdeFuntanas_georef Plan: rio_DomusdeFuntana_Simulazione 11/20/2014
River = rio Domus Funtan Reach = DomusdeFuntana Sezione 1
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_DomusdeFuntanas_georef Plan: rio_DomusdeFuntana_Simulazione 11/20/2014
River = rio Domus Funtan Reach = DomusdeFuntana Sezione 2
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta

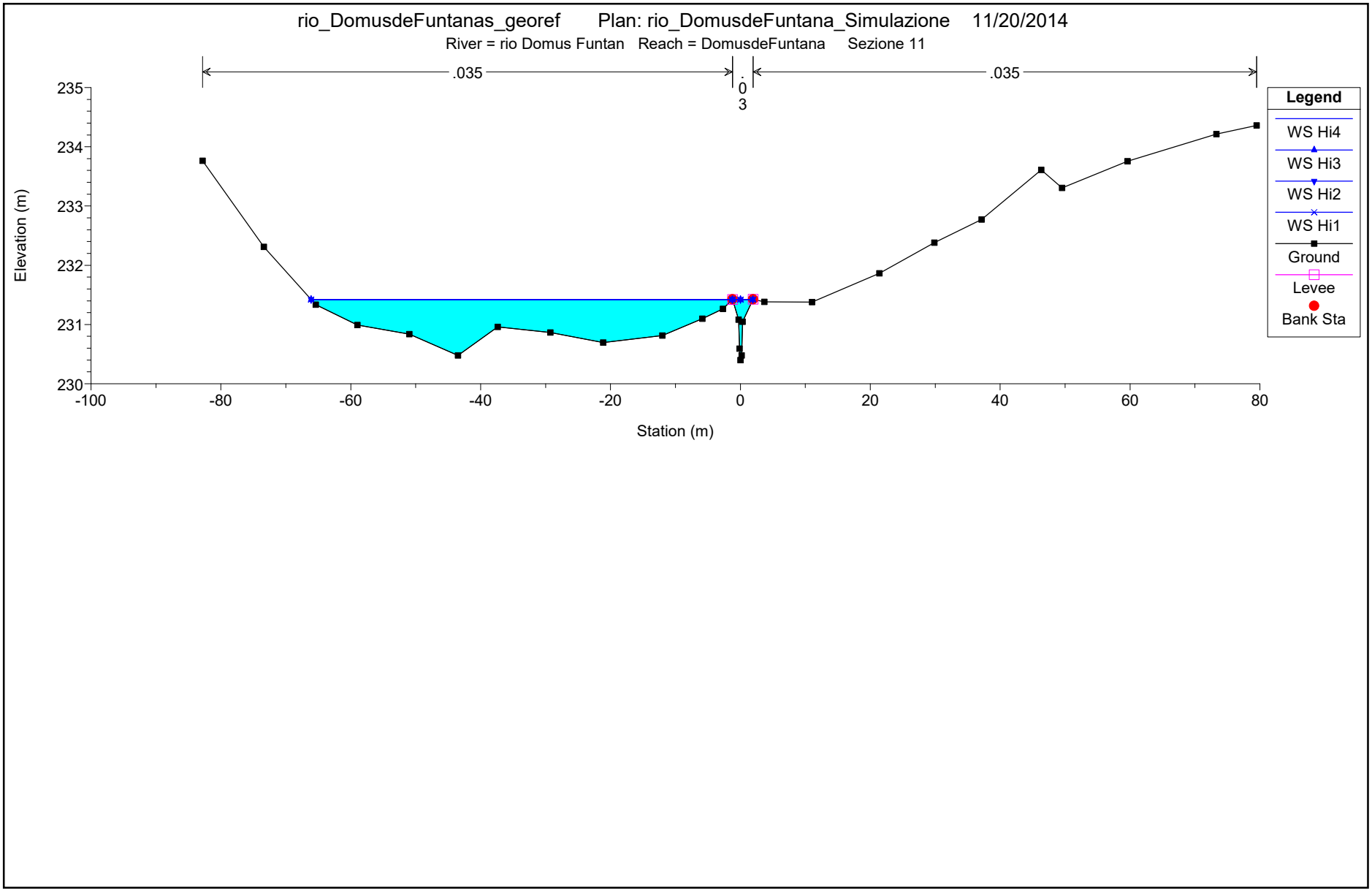

rio_DomusdeFuntanas_georef Plan: rio_DomusdeFuntana_Simulazione 11/20/2014
River = rio Domus Funtan Reach = DomusdeFuntana Attraversamento strada Piraferta
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta
rio_DomusdeFuntanas_georef Plan: rio_DomusdeFuntana_Simulazione 11/20/2014
River = rio Domus Funtan Reach = DomusdeFuntana Sezione 3
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta


rio_DomusdeFuntanas_georef Plan: rio_DomusdeFuntana_Simulazione 11/20/2014
River = rio Domus Funtan Reach = DomusdeFuntana Sezione 4
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_DomusdeFuntanas_georef Plan: rio_DomusdeFuntana_Simulazione 11/20/2014
River = rio Domus Funtan Reach = DomusdeFuntana Sezione 5
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta


rio_DomusdeFuntanas_georef Plan: rio_DomusdeFuntana_Simulazione 11/20/2014
River = rio Domus Funtan Reach = DomusdeFuntana Sezione 6
.035
.035
0
3
Elevation (m)
Station (m)
Legend
WS Hi4
WS Hi3
WS Hi2
WS Hi1
Ground
Levee
Bank Sta
rio_DomusdeFuntanas_georef Plan: rio_DomusdeFuntana_Simulazione 11/20/2014
River = rio Domus Funtan Reach = DomusdeFuntana Sezione 7
.035
.035
0
3
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta


rio_DomusdeFuntanas_georef Plan: rio_DomusdeFuntana_Simulazione 11/20/2014
River = rio Domus Funtan Reach = DomusdeFuntana Sezione 8
.035
.035
.03
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Ineff
Bank Sta
rio_DomusdeFuntanas_georef Plan: rio_DomusdeFuntana_Simulazione 11/20/2014
River = rio Domus Funtan Reach = DomusdeFuntana Attraversamento strada
.035
.035
.03
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Ineff
Bank Sta


rio_DomusdeFuntanas_georef Plan: rio_DomusdeFuntana_Simulazione 11/20/2014
River = rio Domus Funtan Reach = DomusdeFuntana Sezione 9
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Ineff
Bank Sta
rio_DomusdeFuntanas_georef Plan: rio_DomusdeFuntana_Simulazione 11/20/2014
River = rio Domus Funtan Reach = DomusdeFuntana Sexione 10
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta


rio_DomusdeFuntanas_georef Plan: rio_DomusdeFuntana_Simulazione 11/20/2014
River = rio Domus Funtan Reach = DomusdeFuntana Sezione 11
.035
.03
.035
Elevation (m)
235
234
233
232
231
230
-100
-80
-60
-40
-20
0
20
40
60
80
Station (m)
Legend
WS Hi4
WS Hi3
WS Hi2
WS Hi1
Ground
Levee
Bank Sta

HEC-RAS Plan: 01 River: rio Domus Funtan Reach: DomusdeFuntana

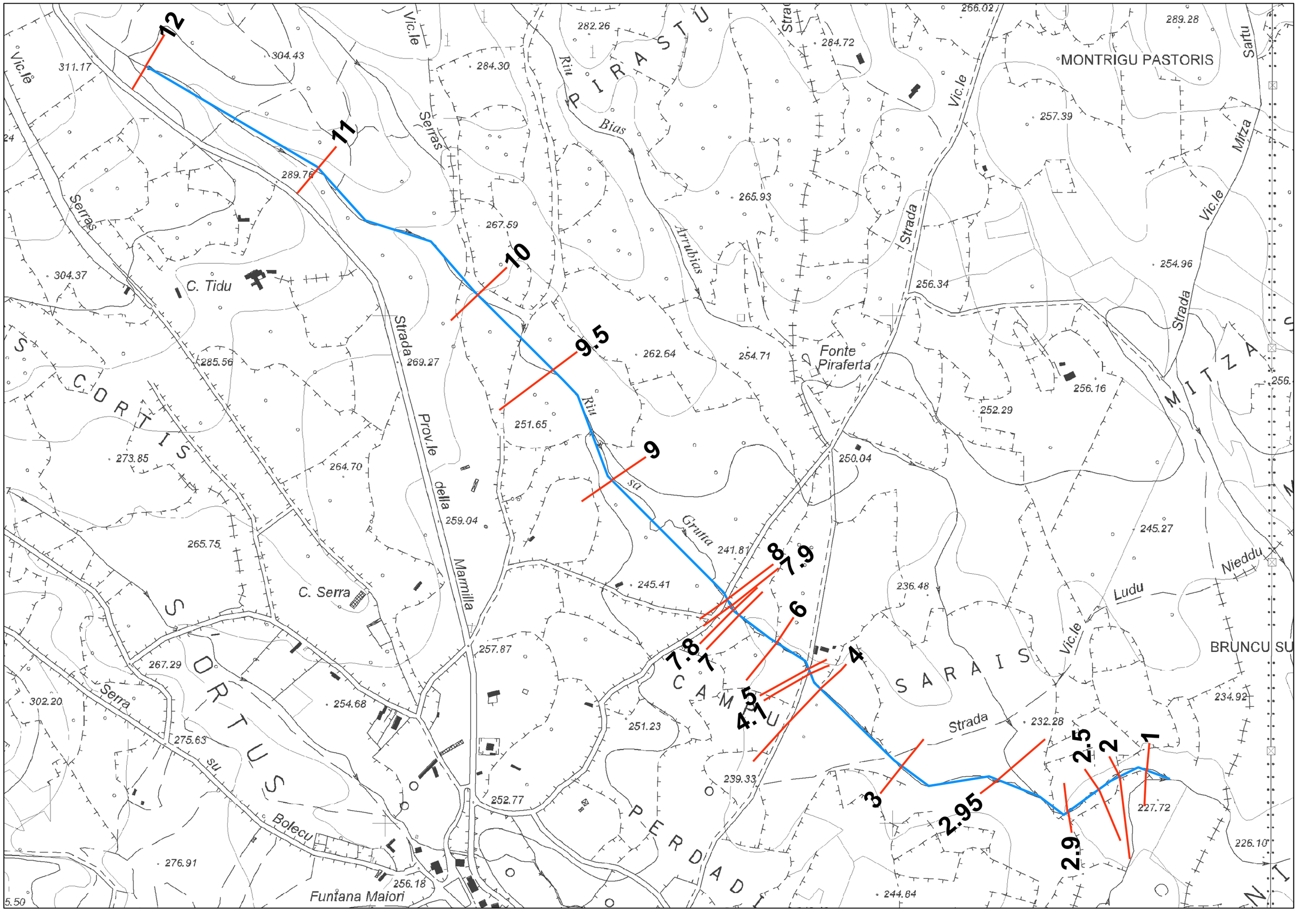
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
DomusdeFuntana	11	Hi4	19.55	263.55	265.12	264.08	265.13	0.000182	0.55	49.29	47.78	0.14
DomusdeFuntana	11	Hi3	22.16	263.55	265.15	264.11	265.16	0.000217	0.60	50.62	48.18	0.16
DomusdeFuntana	11	Hi2	24.77	263.55	265.18	264.15	265.19	0.000252	0.66	51.88	48.64	0.17
DomusdeFuntana	11	Hi1	28.23	263.55	265.21	264.20	265.22	0.000299	0.73	53.45	49.14	0.18
DomusdeFuntana	10	Hi4	19.55	262.59	265.07	264.98	265.11	0.002651	1.26	25.31	80.00	0.48
DomusdeFuntana	10	Hi3	22.16	262.59	265.09	265.00	265.14	0.002758	1.32	27.21	80.28	0.49
DomusdeFuntana	10	Hi2	24.77	262.59	265.11	265.02	265.17	0.002860	1.37	28.99	80.53	0.50
DomusdeFuntana	10	Hi1	28.23	262.59	265.14	265.04	265.20	0.002998	1.43	31.15	80.85	0.51
DomusdeFuntana	9.5		Bridge									
DomusdeFuntana	9	Hi4	19.55	262.54	264.98	264.98	265.08	0.005252	1.75	18.65	77.30	0.66
DomusdeFuntana	9	Hi3	22.16	262.54	265.00	265.00	265.11	0.005585	1.84	20.13	77.75	0.69
DomusdeFuntana	9	Hi2	24.77	262.54	265.02	265.02	265.13	0.005906	1.92	21.49	78.15	0.71
DomusdeFuntana	9	Hi1	28.23	262.54	265.04	265.04	265.16	0.006121	2.00	23.43	78.72	0.72
DomusdeFuntana	8	Hi4	19.55	261.78	262.45	262.83	264.36	0.105558	6.84	3.78	13.71	3.05
DomusdeFuntana	8	Hi3	22.16	261.78	262.49	262.88	264.38	0.096920	6.90	4.36	14.94	2.96
DomusdeFuntana	8	Hi2	24.77	261.78	262.52	262.92	264.39	0.089936	6.94	4.94	16.08	2.88
DomusdeFuntana	8	Hi1	28.23	261.78	262.57	262.98	264.41	0.083283	7.01	5.69	17.45	2.81
DomusdeFuntana	7	Hi4	19.55	244.11	245.47	245.71	246.19	0.024321	4.39	6.65	18.28	1.44
DomusdeFuntana	7	Hi3	22.16	244.11	245.51	245.75	246.25	0.024320	4.52	7.47	19.80	1.45
DomusdeFuntana	7	Hi2	24.77	244.11	245.55	245.78	246.30	0.024346	4.64	8.28	21.18	1.46
DomusdeFuntana	7	Hi1	28.23	244.11	245.60	245.84	246.37	0.024356	4.78	9.32	22.84	1.47
DomusdeFuntana	6	Hi4	19.55	235.86	236.84	236.84	236.85	0.000331	0.39	48.40	72.93	0.16
DomusdeFuntana	6	Hi3	22.16	235.86	236.84	236.84	236.85	0.000425	0.45	48.40	72.93	0.18
DomusdeFuntana	6	Hi2	24.77	235.86	236.84	236.84	236.85	0.000531	0.50	48.40	72.93	0.20
DomusdeFuntana	6	Hi1	28.23	235.86	236.84	236.84	236.86	0.000689	0.57	48.40	72.93	0.23
DomusdeFuntana	5	Hi4	19.55	232.76	234.87	233.77	234.87	0.000051	0.35	95.06	97.11	0.08
DomusdeFuntana	5	Hi3	22.16	232.76	235.05	233.79	235.05	0.000041	0.33	113.36	104.48	0.07
DomusdeFuntana	5	Hi2	24.77	232.76	235.33	233.81	235.33	0.000026	0.29	143.79	115.69	0.06
DomusdeFuntana	5	Hi1	28.23	232.76	235.81	233.84	235.81	0.000013	0.23	204.11	135.28	0.04

HEC-RAS Plan: 01 River: rio Domus Funtan Reach: DomusdeFuntana (Continued)

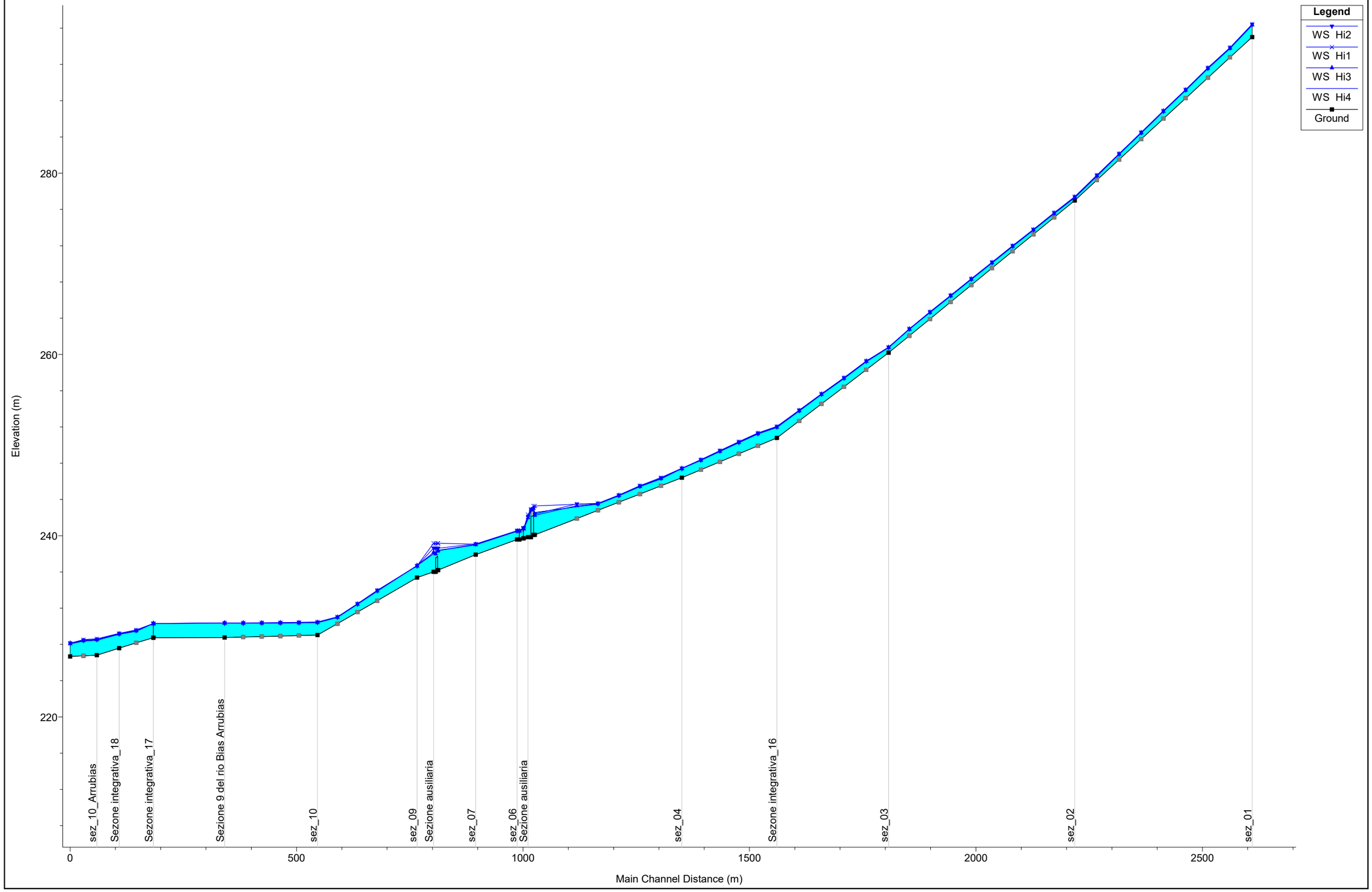
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
DomusdeFuntana	4	Hi4	19.55	232.55	234.22	234.13	234.81	0.006485	3.40	5.76	11.09	0.90
DomusdeFuntana	4	Hi3	22.16	232.55	234.35	234.24	234.99	0.006322	3.54	6.25	11.36	0.90
DomusdeFuntana	4	Hi2	24.77	232.55	234.80	234.35	235.28	0.003400	3.08	8.05	13.02	0.69
DomusdeFuntana	4	Hi1	28.23	232.55	235.76	234.50	235.81	0.000335	1.25	59.50	124.18	0.23
DomusdeFuntana	3.5		Bridge									
DomusdeFuntana	3	Hi4	19.55	232.43	234.08	234.13	234.81	0.009267	3.77	5.19	10.10	1.06
DomusdeFuntana	3	Hi3	22.16	232.43	234.19	234.25	234.98	0.009088	3.94	5.63	10.41	1.06
DomusdeFuntana	3	Hi2	24.77	232.43	234.36	234.36	235.15	0.007890	3.95	6.28	10.88	1.01
DomusdeFuntana	3	Hi1	28.23	232.43	234.50	234.50	235.36	0.007618	4.11	6.86	11.50	1.00
DomusdeFuntana	2	Hi4	19.55	232.39	233.02	233.29	234.62	0.103194	6.97	3.82	10.56	3.05
DomusdeFuntana	2	Hi3	22.16	232.39	233.05	233.29	234.79	0.105307	7.31	4.15	10.85	3.11
DomusdeFuntana	2	Hi2	24.77	232.39	233.08	233.29	234.96	0.107091	7.62	4.47	11.13	3.16
DomusdeFuntana	2	Hi1	28.23	232.39	233.12	233.29	235.16	0.109326	8.01	4.87	11.48	3.23
DomusdeFuntana	1	Hi4	19.55	230.40	231.42	231.42	231.44	0.000846	0.36	35.90	68.01	0.21
DomusdeFuntana	1	Hi3	22.16	230.40	231.42	231.42	231.44	0.001086	0.41	35.90	68.01	0.24
DomusdeFuntana	1	Hi2	24.77	230.40	231.42	231.42	231.45	0.001357	0.46	35.90	68.01	0.27
DomusdeFuntana	1	Hi1	28.23	230.40	231.42	231.42	231.45	0.001763	0.53	35.90	68.01	0.30

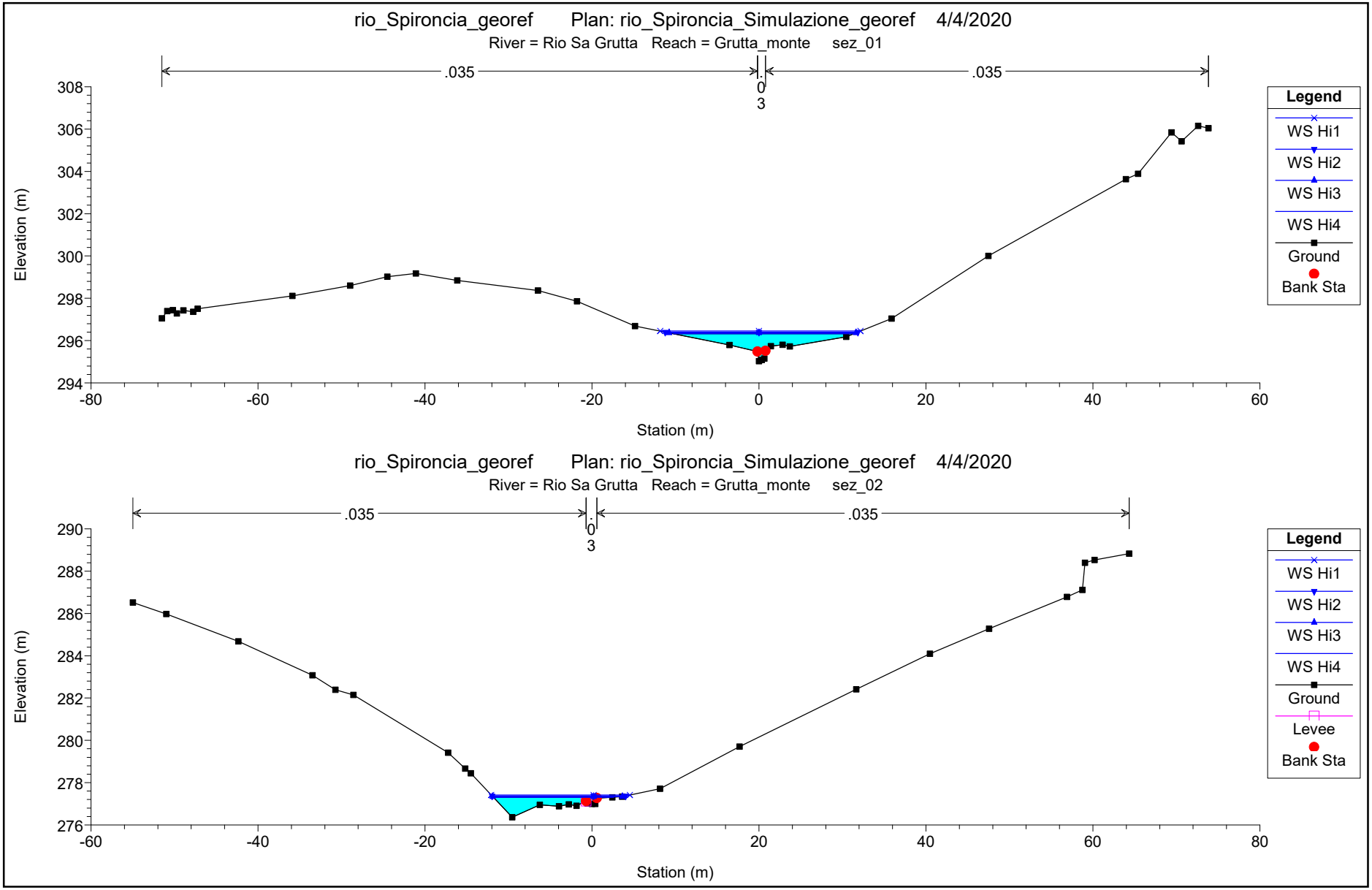
Rio Sa Grutta

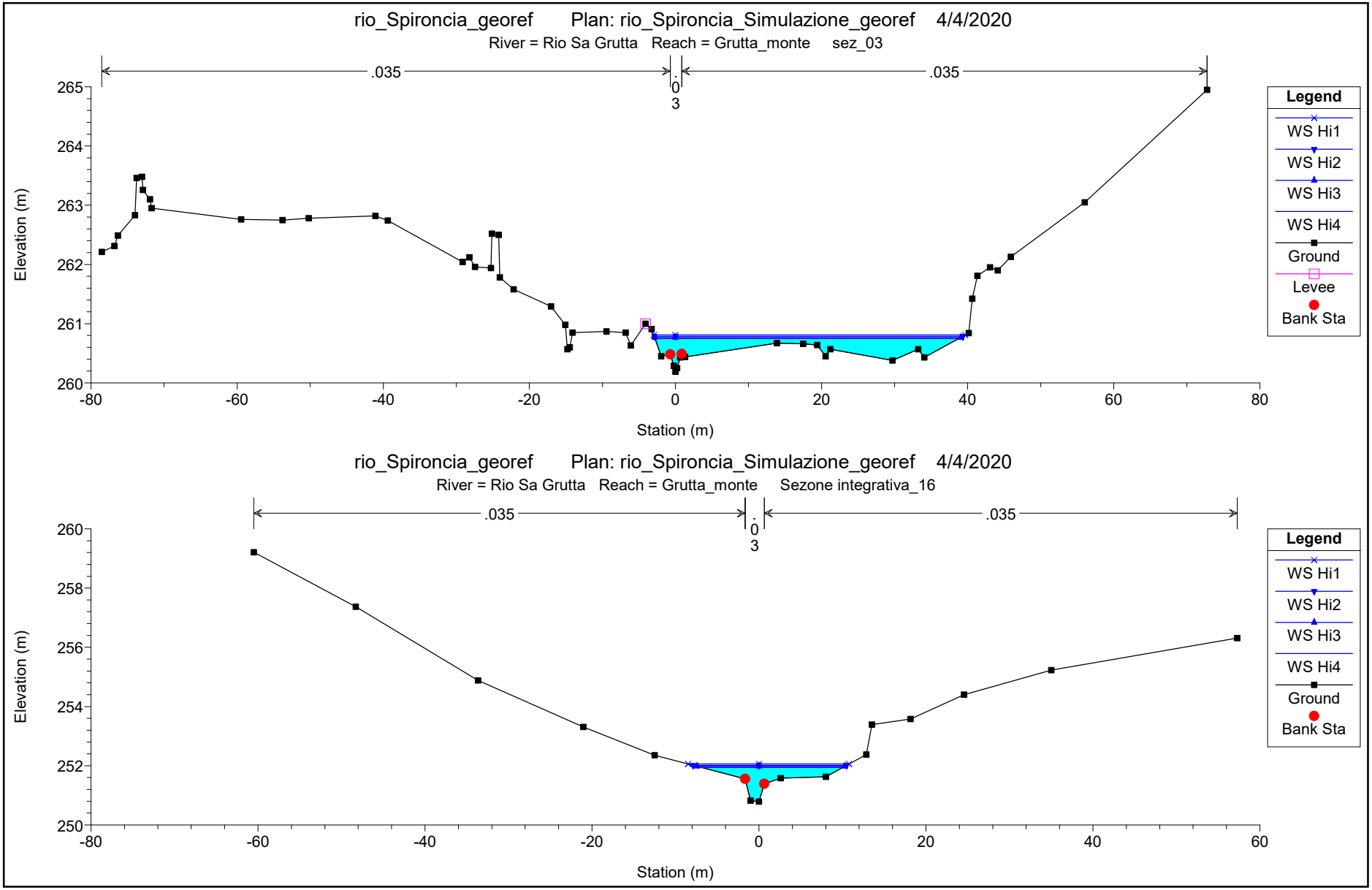
Profilo – Sezioni – Tabelle

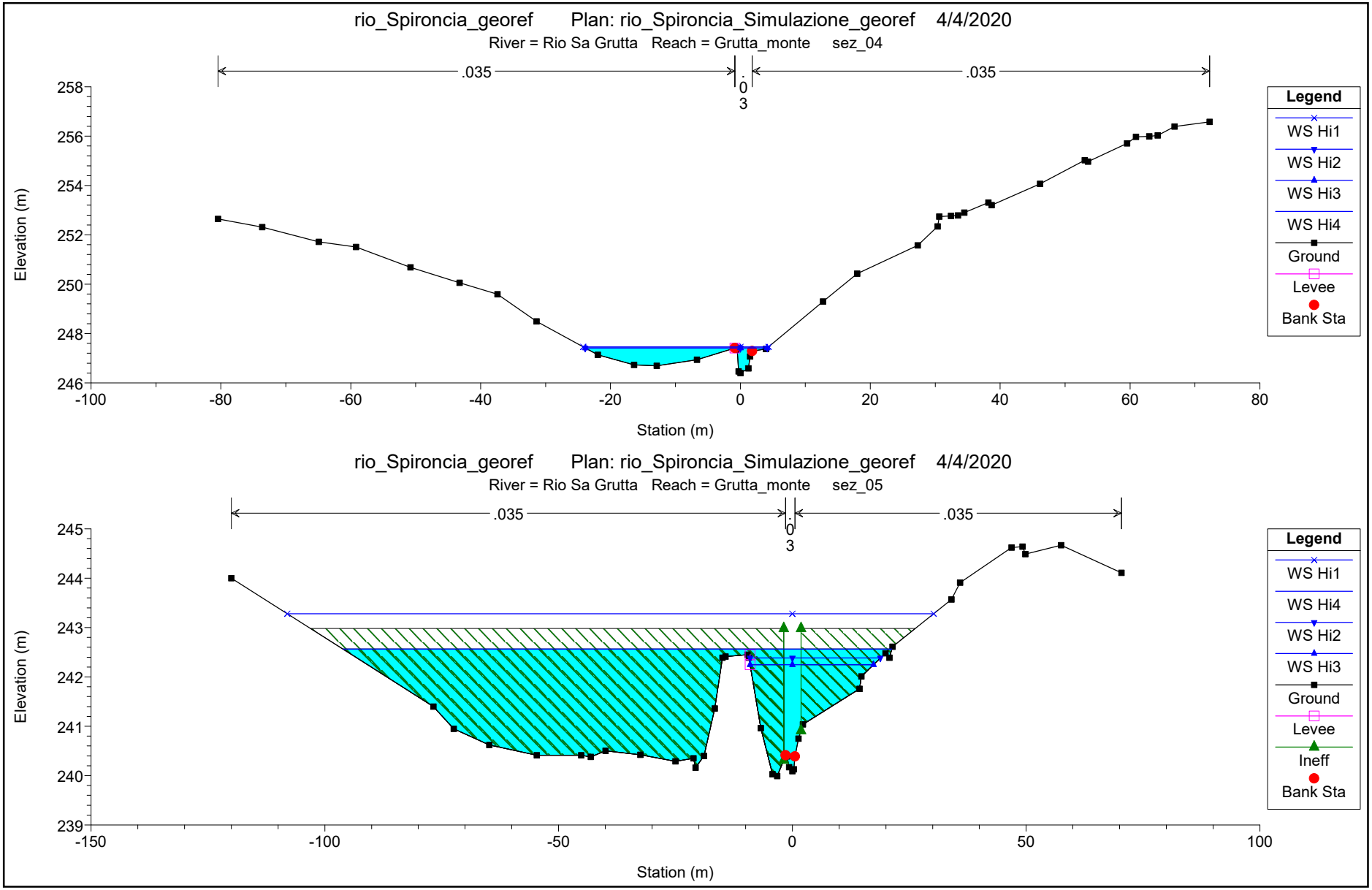

12
11
10
9.5
9
8
7.9
7.8
6
5
4.1
4
3
2.95
2.9
2.5
2
1
Vic.le
Serras
Rin
Bias
Arrubias
Strada
Prov.le
della
Marmilla
Gruta
sa
su
Bolecu
Ludu
Nieddu
Mitza
Sartu
MONTRIGU PASTORIS
C. Tidu
C. Serra
Fonte
Piraferta
Funtana Maiori
S O R T U S
P E R D A D I
C A M P U
S A R A I S
M I T Z A
311.17
304.43
284.30
282.26
284.72
266.02
289.28
289.76
267.59
265.93
257.39
254.96
304.37
285.56
269.27
262.64
254.71
256.34
256.16
252.29
251.65
250.04
273.85
264.70
259.04
265.75
241.81
245.27
245.41
236.48
257.87
267.29
254.68
302.20
275.63
251.23
234.92
232.28
239.33
252.77
227.72
276.91
256.18
244.64
226.10

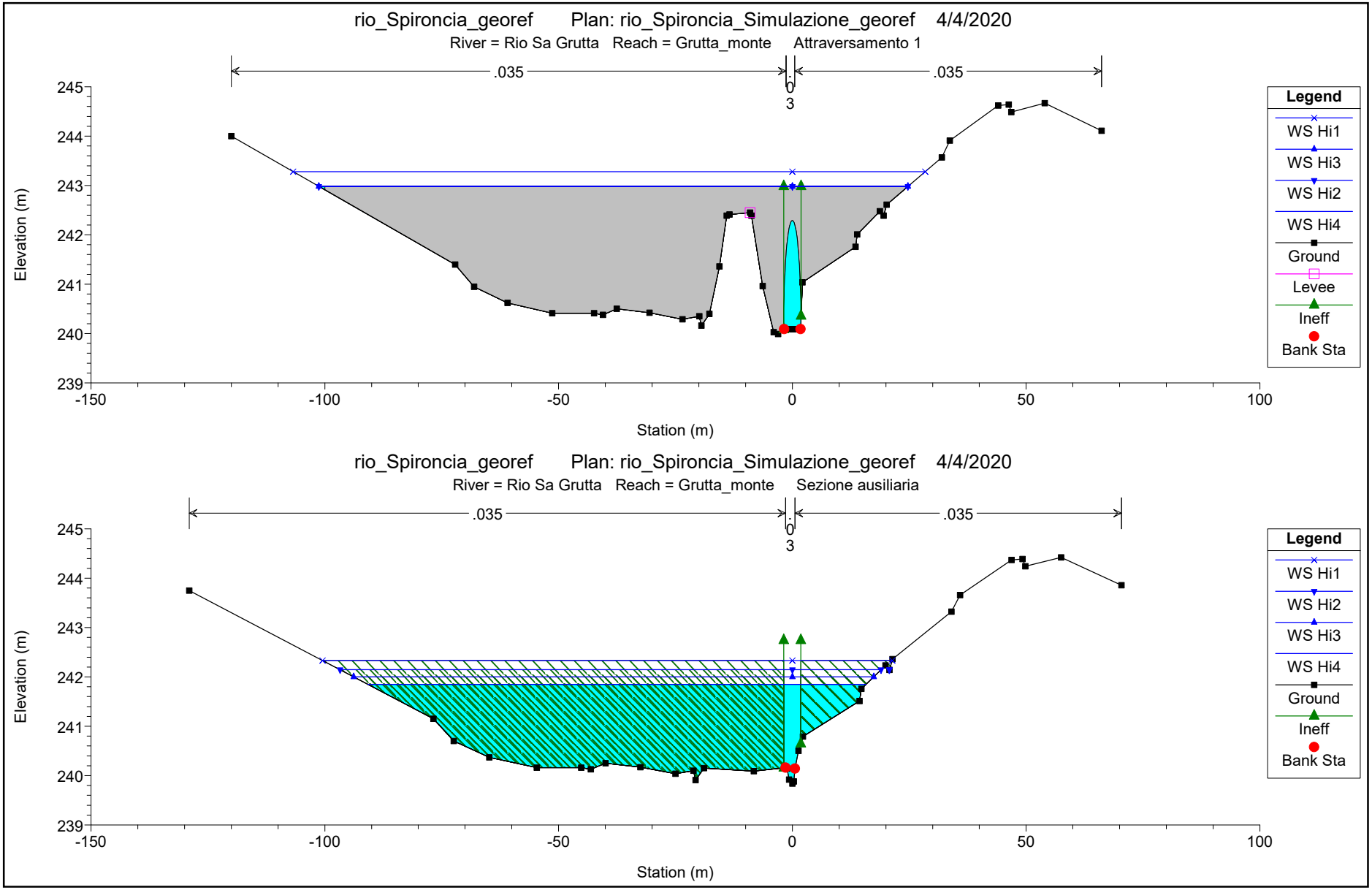
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020

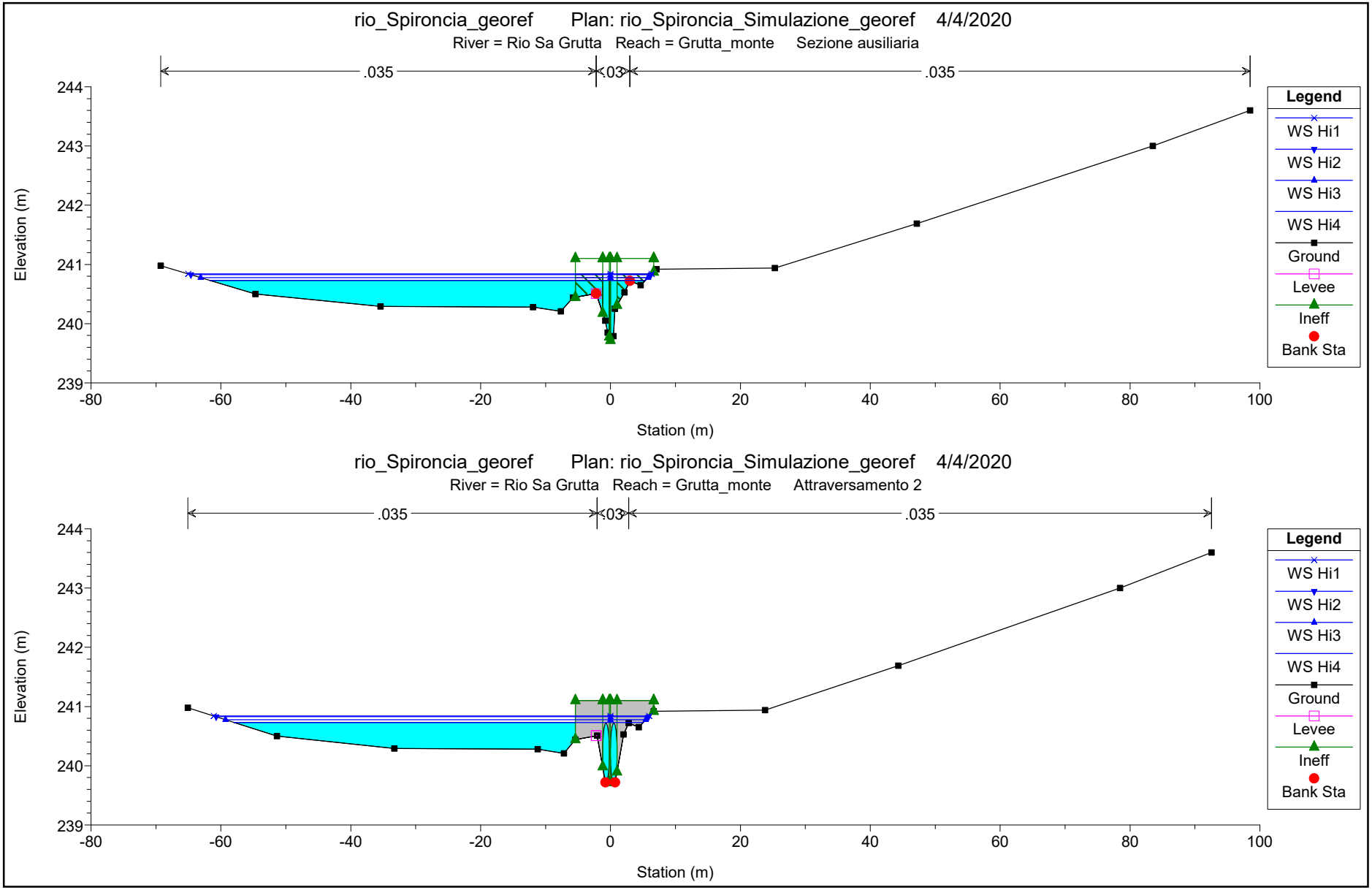


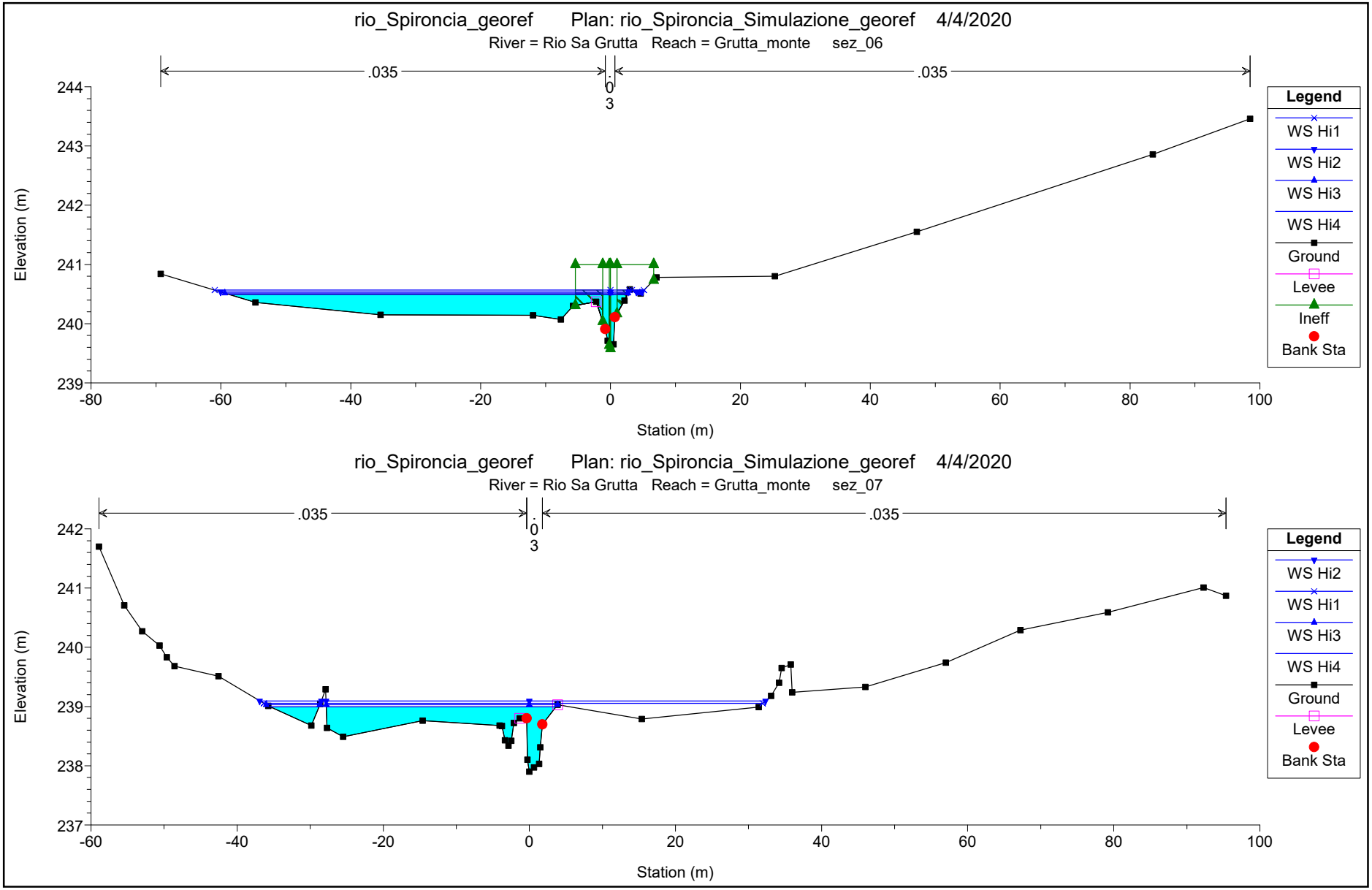

rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte sez_01
.035
.035
0
3
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte sez_02
.035
.035
0
3
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta

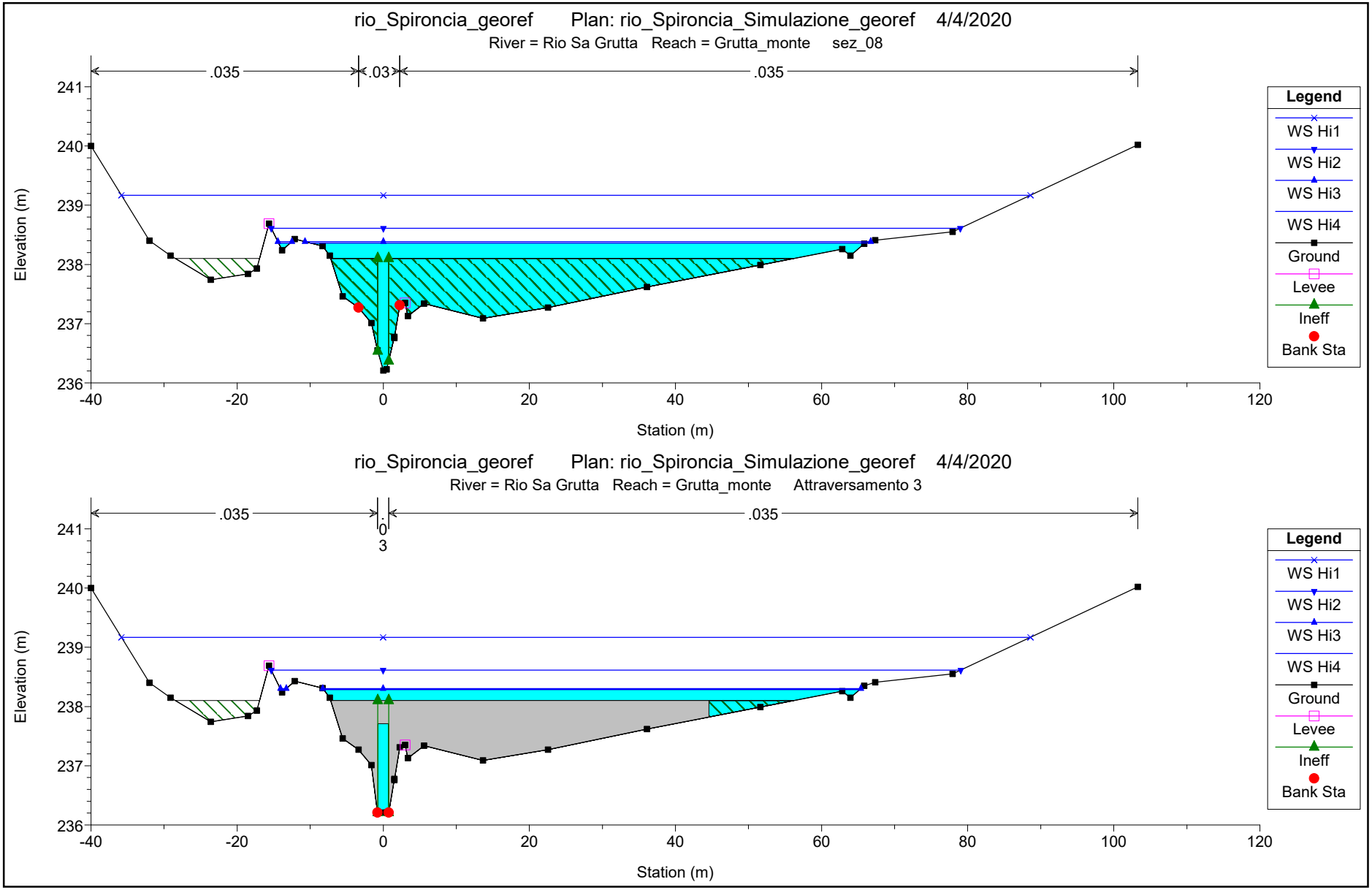

rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte sez_03
.035
.035
0
3
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte Sezone integrativa_16
.035
.035
0
3
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta

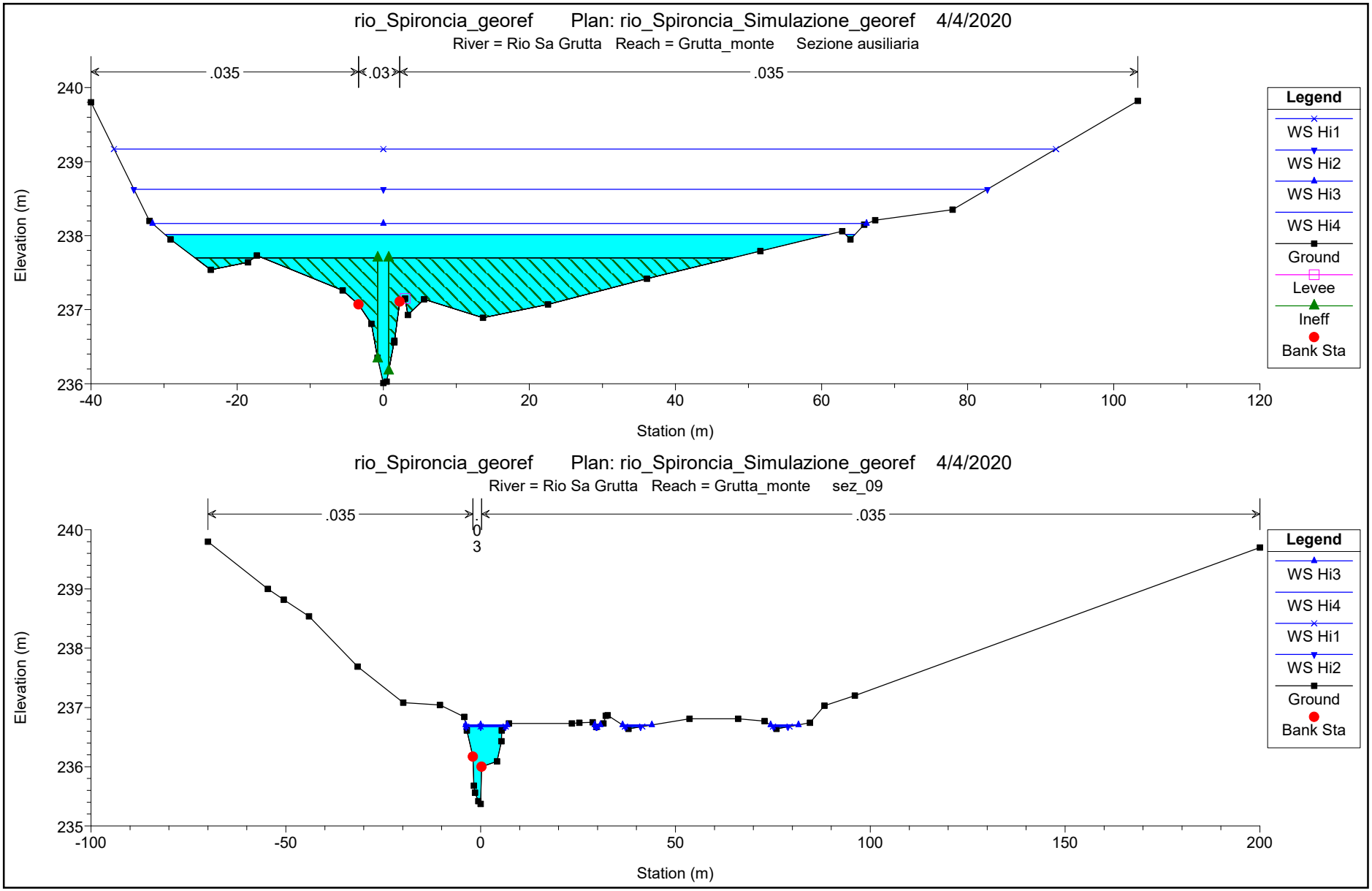

rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte sez_04
.035
.035
0
3
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte sez_05
.035
.035
0
3
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi4
WS Hi2
WS Hi3
Ground
Levee
Ineff
Bank Sta

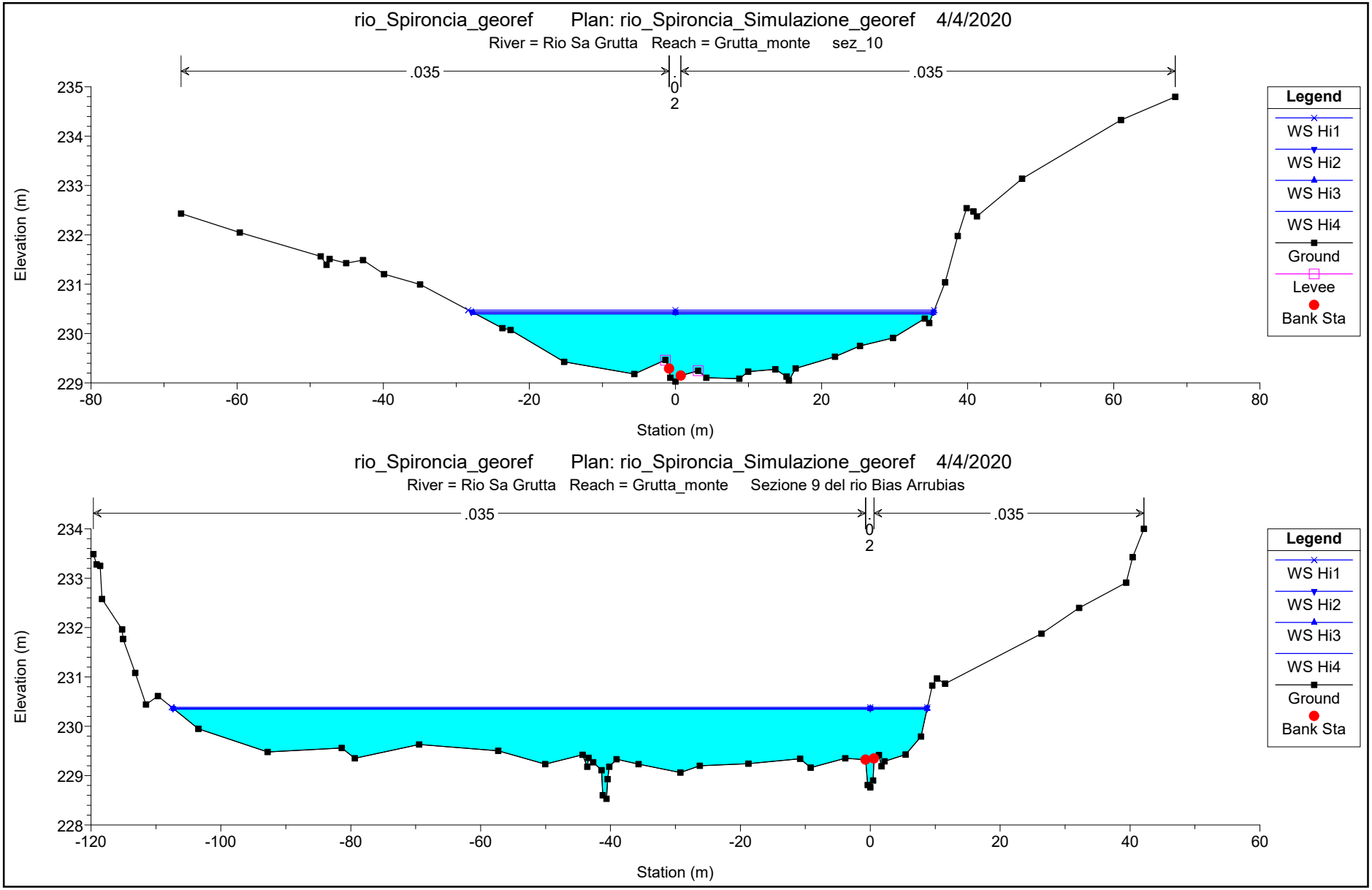

rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte Attraversamento 1
.035
.035
0
3
Elevation (m)
245
244
243
242
241
240
239
-150
-100
-50
0
50
100
Station (m)
Legend
WS Hi1
WS Hi3
WS Hi2
WS Hi4
Ground
Levee
Ineff
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte Sezione ausiliaria
.035
.035
0
3
Elevation (m)
245
244
243
242
241
240
239
-150
-100
-50
0
50
100
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Ineff
Bank Sta

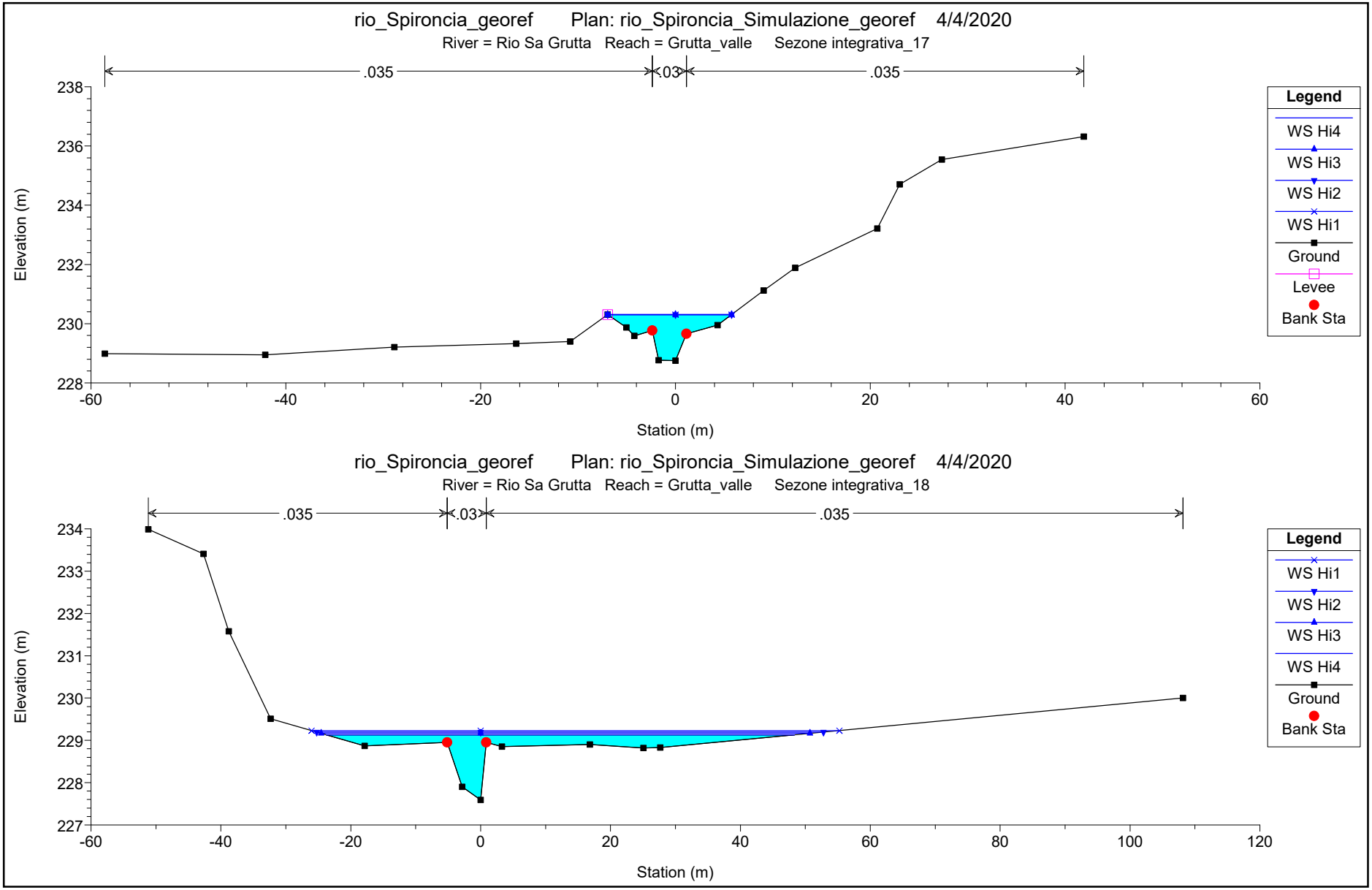

rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte Sezione ausiliaria
.035
03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte Attraversamento 2
.035
03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta

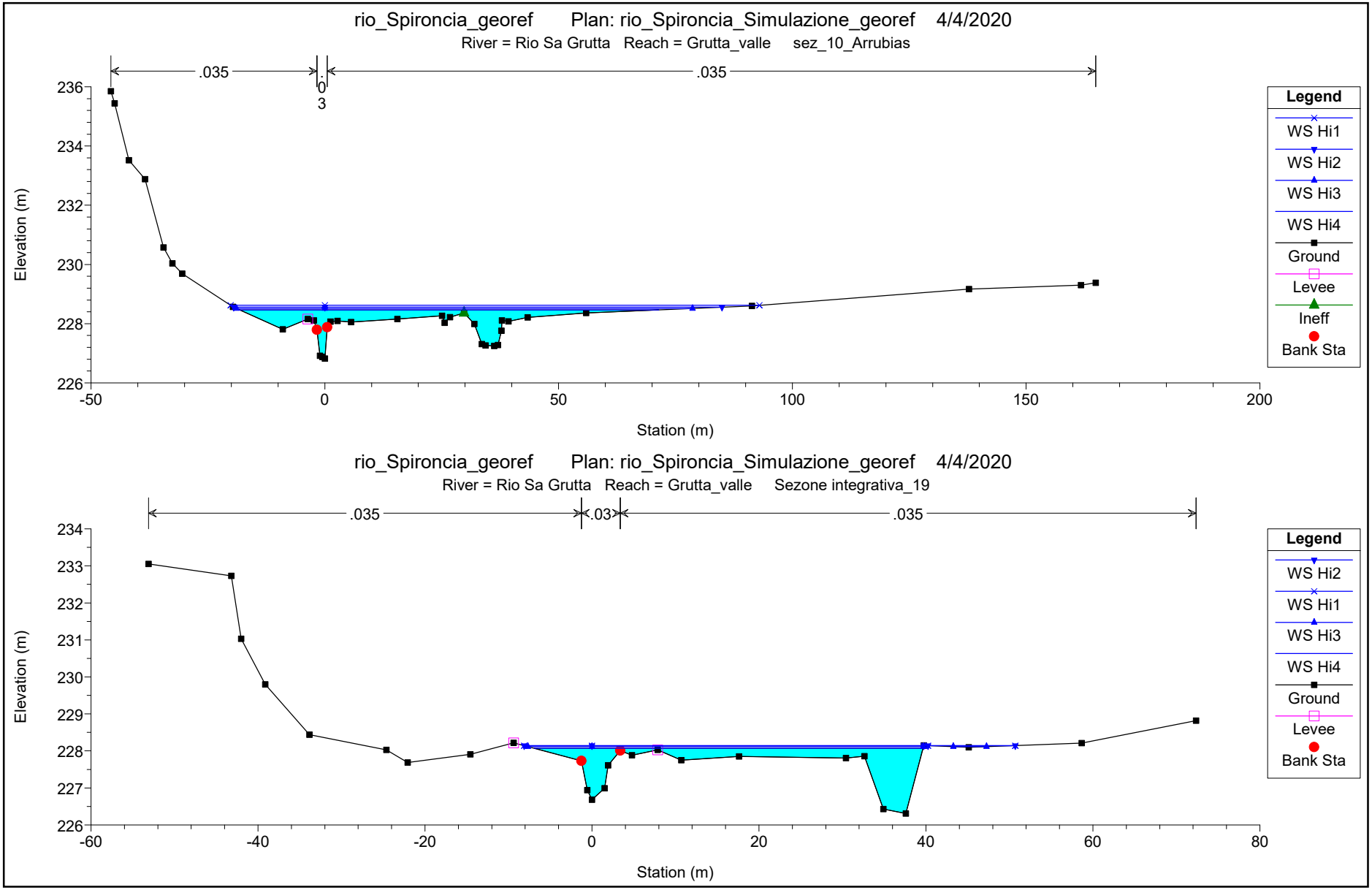

rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte sez_06
.035
.035
.03
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte sez_07
.035
.035
.03
Elevation (m)
Station (m)
Legend
WS Hi2
WS Hi1
WS Hi3
WS Hi4
Ground
Levee
Bank Sta


rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte sez_08
.035
.03
.035
Elevation (m)
241
240
239
238
237
236
-40
-20
0
20
40
60
80
100
120
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte Attraversamento 3
.035
.035
Elevation (m)
241
240
239
238
237
236
-40
-20
0
20
40
60
80
100
120
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta


rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte Sezione ausiliaria
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte sez_09
.035
.035
Elevation (m)
Station (m)
Legend
WS Hi3
WS Hi4
WS Hi1
WS Hi2
Ground
Bank Sta


rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte sez_10
.035
.035
0
2
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_monte Sezione 9 del rio Bias Arrubias
.035
.035
0
2
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta


rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_valle Sezone integrativa_17
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi4
WS Hi3
WS Hi2
WS Hi1
Ground
Levee
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_valle Sezone integrativa_18
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta


rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_valle sez_10_Arrubias
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta
rio_Spironcia_georef Plan: rio_Spironcia_Simulazione_georef 4/4/2020
River = Rio Sa Grutta Reach = Grutta_valle Sezone integrativa_19
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi2
WS Hi1
WS Hi3
WS Hi4
Ground
Levee
Bank Sta

HEC-RAS Plan: 01

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Grutta_monte	12	Hi4	20.40	295.03	296.32	296.36	296.60	0.016016	3.45	9.49	21.59	1.02
Grutta_monte	12	Hi3	23.10	295.03	296.36	296.41	296.66	0.016018	3.53	10.40	22.37	1.02
Grutta_monte	12	Hi2	25.79	295.03	296.40	296.45	296.71	0.016016	3.60	11.27	23.09	1.03
Grutta_monte	12	Hi1	29.35	295.03	296.45	296.50	296.77	0.016016	3.69	12.39	23.99	1.03
Grutta_monte	11	Hi4	20.40	276.99	277.31	277.53	277.99	0.047383	2.83	5.63	14.42	1.71
Grutta_monte	11	Hi3	23.10	276.99	277.34	277.58	278.09	0.047337	3.07	6.16	15.53	1.75
Grutta_monte	11	Hi2	25.79	276.99	277.38	277.63	278.17	0.047302	3.28	6.68	16.01	1.78
Grutta_monte	11	Hi1	29.35	276.99	277.42	277.69	278.28	0.047220	3.53	7.35	16.61	1.81
Grutta_monte	10	Hi4	20.40	260.19	260.75	260.84	261.06	0.048813	3.88	8.83	41.59	1.94
Grutta_monte	10	Hi3	23.10	260.19	260.77	260.87	261.10	0.048060	3.96	9.61	41.92	1.94
Grutta_monte	10	Hi2	25.79	260.19	260.79	260.89	261.13	0.047411	4.04	10.35	42.23	1.94
Grutta_monte	10	Hi1	29.35	260.19	260.81	260.92	261.18	0.046655	4.15	11.30	42.63	1.94
Grutta_monte	9.5	Hi4	20.40	250.79	251.94	252.20	252.80	0.034253	5.13	6.19	16.90	1.68
Grutta_monte	9.5	Hi3	23.10	250.79	251.98	252.24	252.86	0.034241	5.27	6.86	17.68	1.69
Grutta_monte	9.5	Hi2	25.79	250.79	252.02	252.29	252.92	0.034214	5.39	7.51	18.41	1.70
Grutta_monte	9.5	Hi1	29.35	250.79	252.06	252.35	252.99	0.034177	5.54	8.34	19.30	1.71
Grutta_monte	9	Hi4	20.40	246.40	247.41	247.41	247.55	0.009362	1.94	12.33	27.99	0.77
Grutta_monte	9	Hi3	23.10	246.40	247.41	247.41	247.59	0.012004	2.20	12.33	27.99	0.87
Grutta_monte	9	Hi2	25.79	246.40	247.42	247.42	247.64	0.014446	2.42	12.47	28.05	0.95
Grutta_monte	9	Hi1	29.35	246.40	247.46	247.46	247.70	0.014349	2.51	13.63	28.52	0.96
Grutta_monte	8	Hi4	24.51	240.09	242.56	242.09	243.06	0.003691	3.38	8.02	117.37	0.70
Grutta_monte	8	Hi3	27.94	240.09	242.25	242.24	243.14	0.008053	4.53	6.85	26.37	1.02
Grutta_monte	8	Hi2	31.37	240.09	242.38	242.38	243.36	0.008044	4.73	7.35	27.86	1.03
Grutta_monte	8	Hi1	35.91	240.09	243.28	243.28	243.41	0.001313	2.41	49.95	138.30	0.44
Grutta_monte	7.95		Culvert									
Grutta_monte	7.9	Hi4	24.51	239.84	241.85	241.85	242.68	0.008252	4.36	6.24	106.54	1.02
Grutta_monte	7.9	Hi3	27.94	239.84	242.00	242.00	242.91	0.008115	4.55	6.79	111.23	1.02
Grutta_monte	7.9	Hi2	31.37	239.84	242.14	242.14	243.13	0.007993	4.73	7.32	115.78	1.02

HEC-RAS Plan: 01 (Continued)

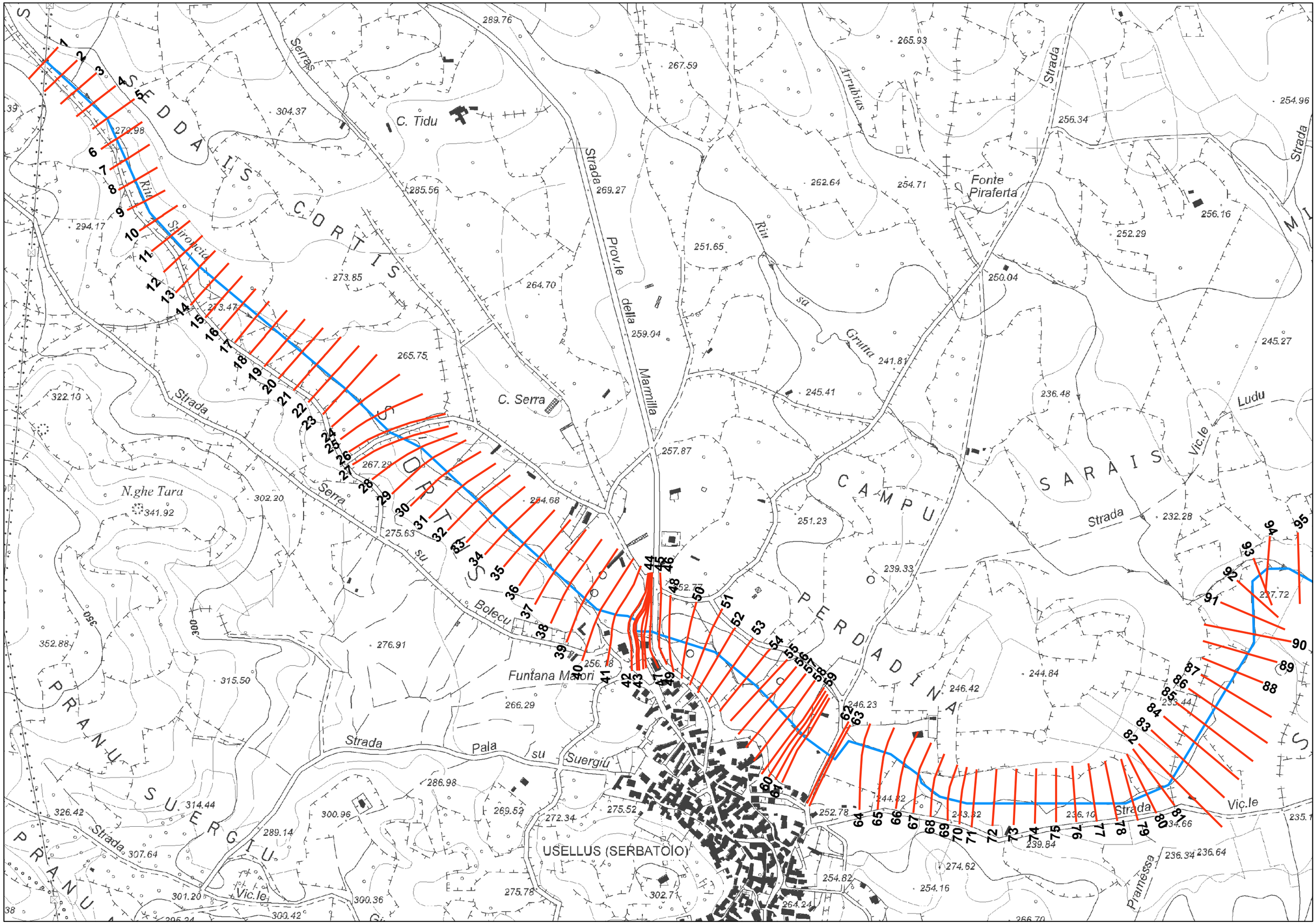
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Grutta_monte	7.9	Hi1	35.91	239.84	242.33	242.33	243.40	0.007821	4.94	8.00	121.82	1.03
Grutta_monte	7.8	Hi4	24.51	239.72	240.73	240.63	240.80	0.005174	1.77	22.21	67.07	0.65
Grutta_monte	7.8	Hi3	27.94	239.72	240.78	240.65	240.85	0.004767	1.76	24.90	68.87	0.63
Grutta_monte	7.8	Hi2	31.37	239.72	240.83	240.68	240.90	0.004258	1.74	27.93	70.85	0.60
Grutta_monte	7.8	Hi1	35.91	239.72	240.84	240.71	240.92	0.005138	1.93	28.71	71.35	0.66
Grutta_monte	7.5		Culvert									
Grutta_monte	7	Hi4	24.51	239.58	240.49	240.49	240.62	0.012686	2.68	16.55	61.27	0.98
Grutta_monte	7	Hi3	27.94	239.58	240.52	240.52	240.66	0.013022	2.77	17.89	62.29	1.00
Grutta_monte	7	Hi2	31.37	239.58	240.54	240.54	240.69	0.013477	2.87	19.10	63.74	1.02
Grutta_monte	7	Hi1	35.91	239.58	240.57	240.57	240.73	0.013738	2.97	20.75	65.69	1.04
Grutta_monte	6	Hi4	24.51	237.90	238.99	239.05	239.24	0.017822	3.21	12.49	38.10	1.07
Grutta_monte	6	Hi3	27.94	237.90	239.03	239.07	239.28	0.017287	3.24	13.83	38.99	1.06
Grutta_monte	6	Hi2	31.37	237.90	239.10	239.10	239.23	0.009278	2.49	21.90	68.59	0.79
Grutta_monte	6	Hi1	35.91	237.90	239.05	239.12	239.30	0.017923	3.36	19.02	67.49	1.09
Grutta_monte	5	Hi4	24.51	236.21	238.36	238.36	238.47	0.006946	2.12	21.22	77.79	0.79
Grutta_monte	5	Hi3	27.94	236.21	238.39	238.39	238.50	0.007258	2.21	22.98	79.35	0.81
Grutta_monte	5	Hi2	31.37	236.21	238.61	238.41	238.65	0.001645	1.26	42.94	94.32	0.40
Grutta_monte	5	Hi1	35.91	236.21	239.17	238.43	239.17	0.000124	0.46	116.25	124.46	0.12
Grutta_monte	4.5		Bridge									
Grutta_monte	4.1	Hi4	24.51	236.01	238.02	237.94	238.07	0.003787	1.57	28.10	92.10	0.59
Grutta_monte	4.1	Hi3	27.94	236.01	238.16	237.97	238.19	0.001482	1.11	42.27	97.75	0.38
Grutta_monte	4.1	Hi2	31.37	236.01	238.63	237.98	238.63	0.000181	0.51	92.93	116.83	0.14
Grutta_monte	4.1	Hi1	35.91	236.01	239.17	238.01	239.17	0.000045	0.32	159.78	128.93	0.07
Grutta_monte	4	Hi4	24.51	235.37	236.70	236.70	237.67	0.031597	5.32	6.57	24.32	1.59
Grutta_monte	4	Hi3	27.94	235.37	236.71	236.71	237.92	0.039526	5.98	6.80	26.84	1.78
Grutta_monte	4	Hi2	31.37	235.37	236.67	236.67	238.43	0.056659	7.03	6.09	17.86	2.12
Grutta_monte	4	Hi1	35.91	235.37	236.68	236.68	238.94	0.072899	8.00	6.18	19.22	2.40

HEC-RAS Plan: 01 (Continued)

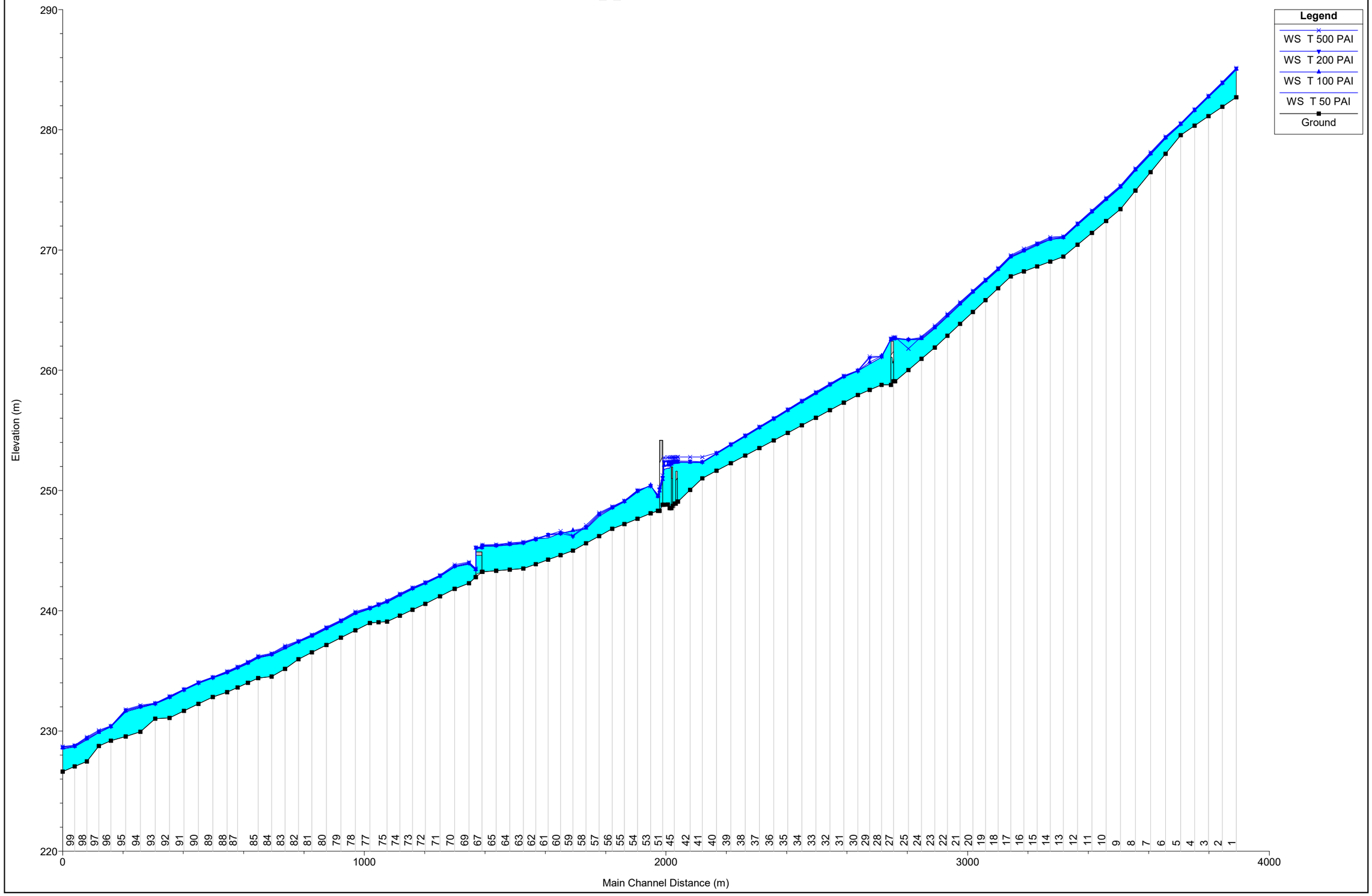
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Grutta_monte	3	Hi4	24.51	229.03	230.40	229.66	230.41	0.000278	0.96	54.45	62.59	0.27
Grutta_monte	3	Hi3	27.94	229.03	230.42	229.69	230.43	0.000335	1.06	55.85	62.93	0.29
Grutta_monte	3	Hi2	31.37	229.03	230.44	229.72	230.46	0.000390	1.16	57.33	63.29	0.32
Grutta_monte	3	Hi1	35.91	229.03	230.48	229.76	230.50	0.000459	1.28	59.38	63.79	0.35
Grutta_monte	2.95	Hi4	24.51	228.76	230.35		230.35	0.000071	0.41	107.22	115.94	0.11
Grutta_monte	2.95	Hi3	27.94	228.76	230.36		230.36	0.000089	0.46	108.38	116.05	0.12
Grutta_monte	2.95	Hi2	31.37	228.76	230.37		230.37	0.000108	0.51	109.67	116.18	0.13
Grutta_monte	2.95	Hi1	35.91	228.76	230.38		230.39	0.000134	0.57	111.55	116.36	0.15
Grutta_valle	2.9	Hi4	34.69	228.75	230.31	230.31	230.32	0.000311	0.61	66.89	64.36	0.17
Grutta_valle	2.9	Hi3	39.52	228.75	230.31	230.31	230.33	0.000404	0.69	66.89	64.36	0.19
Grutta_valle	2.9	Hi2	44.34	228.75	230.31	230.31	230.33	0.000508	0.78	66.89	64.36	0.22
Grutta_valle	2.9	Hi1	50.70	228.75	230.31	230.31	230.34	0.000664	0.89	66.89	64.36	0.25
Grutta_valle	2.5	Hi4	34.69	227.59	229.13	229.23	229.47	0.010768	3.23	20.04	72.09	1.01
Grutta_valle	2.5	Hi3	39.52	227.59	229.17	229.27	229.50	0.010747	3.30	22.60	75.27	1.01
Grutta_valle	2.5	Hi2	44.34	227.59	229.20	229.29	229.53	0.010857	3.38	24.92	78.04	1.02
Grutta_valle	2.5	Hi1	50.70	227.59	229.23	229.33	229.57	0.011088	3.48	27.74	81.27	1.04
Grutta_valle	2	Hi4	34.69	226.82	228.47	228.42	228.57	0.006039	2.39	30.10	89.61	0.66
Grutta_valle	2	Hi3	39.52	226.82	228.51	228.45	228.61	0.005566	2.35	34.68	97.52	0.64
Grutta_valle	2	Hi2	44.34	226.82	228.56	228.48	228.65	0.005257	2.33	38.99	104.43	0.62
Grutta_valle	2	Hi1	50.70	226.82	228.62	228.52	228.70	0.004534	2.22	45.86	113.08	0.58
Grutta_valle	1	Hi4	34.69	226.68	228.07	228.07	228.26	0.010245	2.65	19.83	46.57	0.93
Grutta_valle	1	Hi3	39.52	226.68	228.12	228.12	228.32	0.009792	2.68	21.99	51.30	0.92
Grutta_valle	1	Hi2	44.34	226.68	228.15	228.15	228.36	0.010300	2.81	23.52	58.27	0.95
Grutta_valle	1	Hi1	50.70	226.68	228.15	228.15	228.43	0.013466	3.22	23.52	58.27	1.09

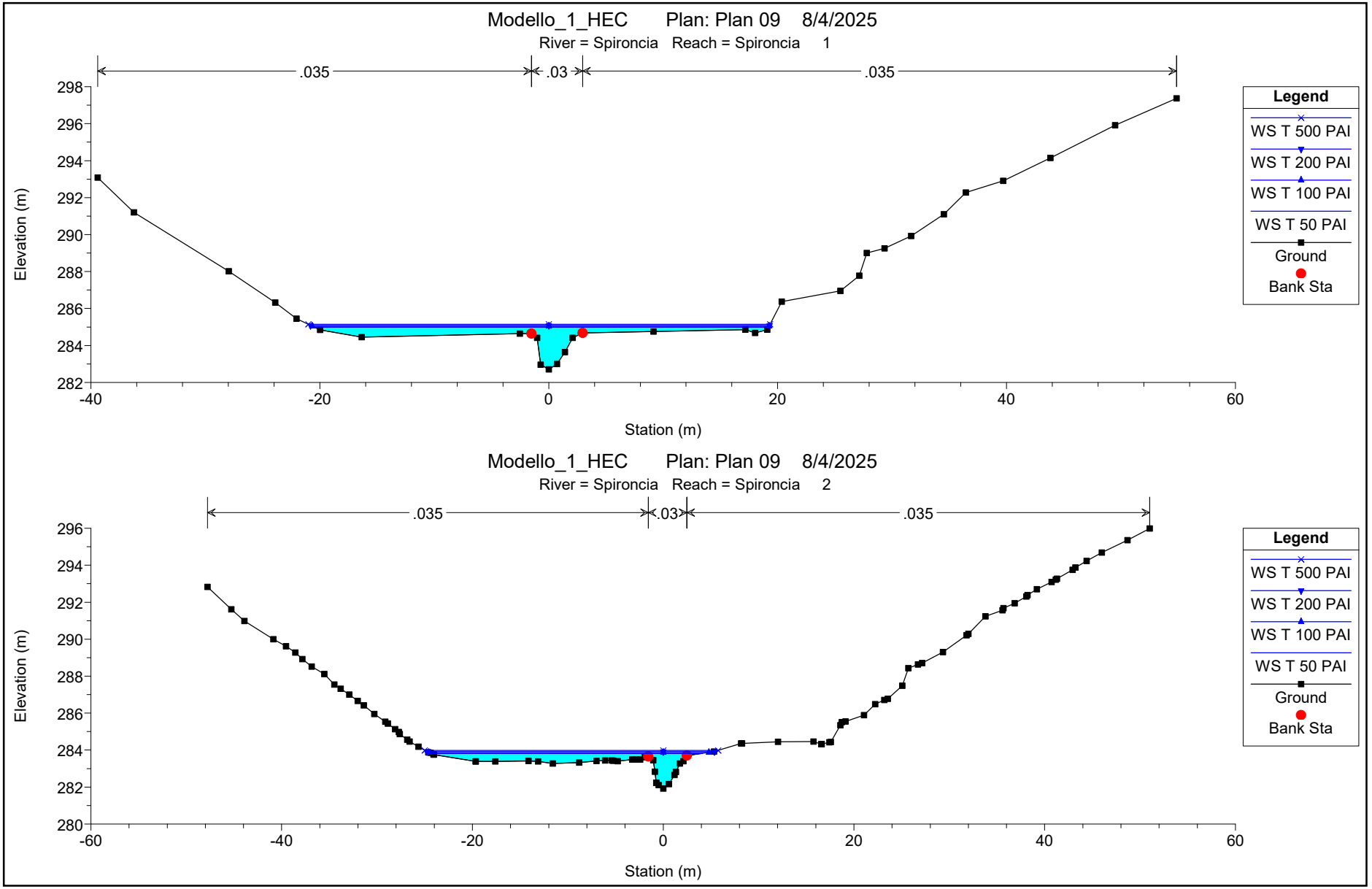
Rio Spironcia

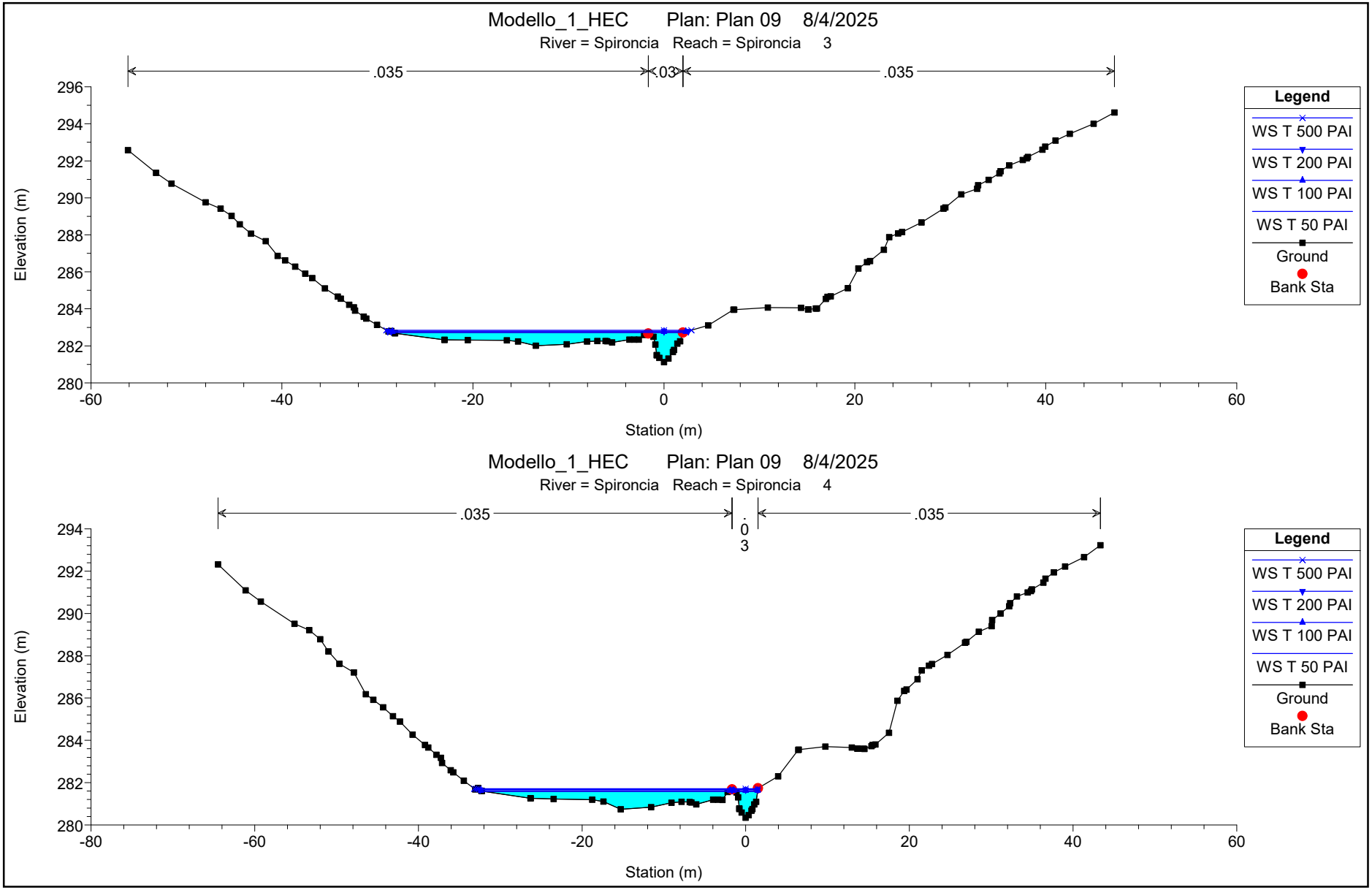
Profilo – Sezioni – Tabelle

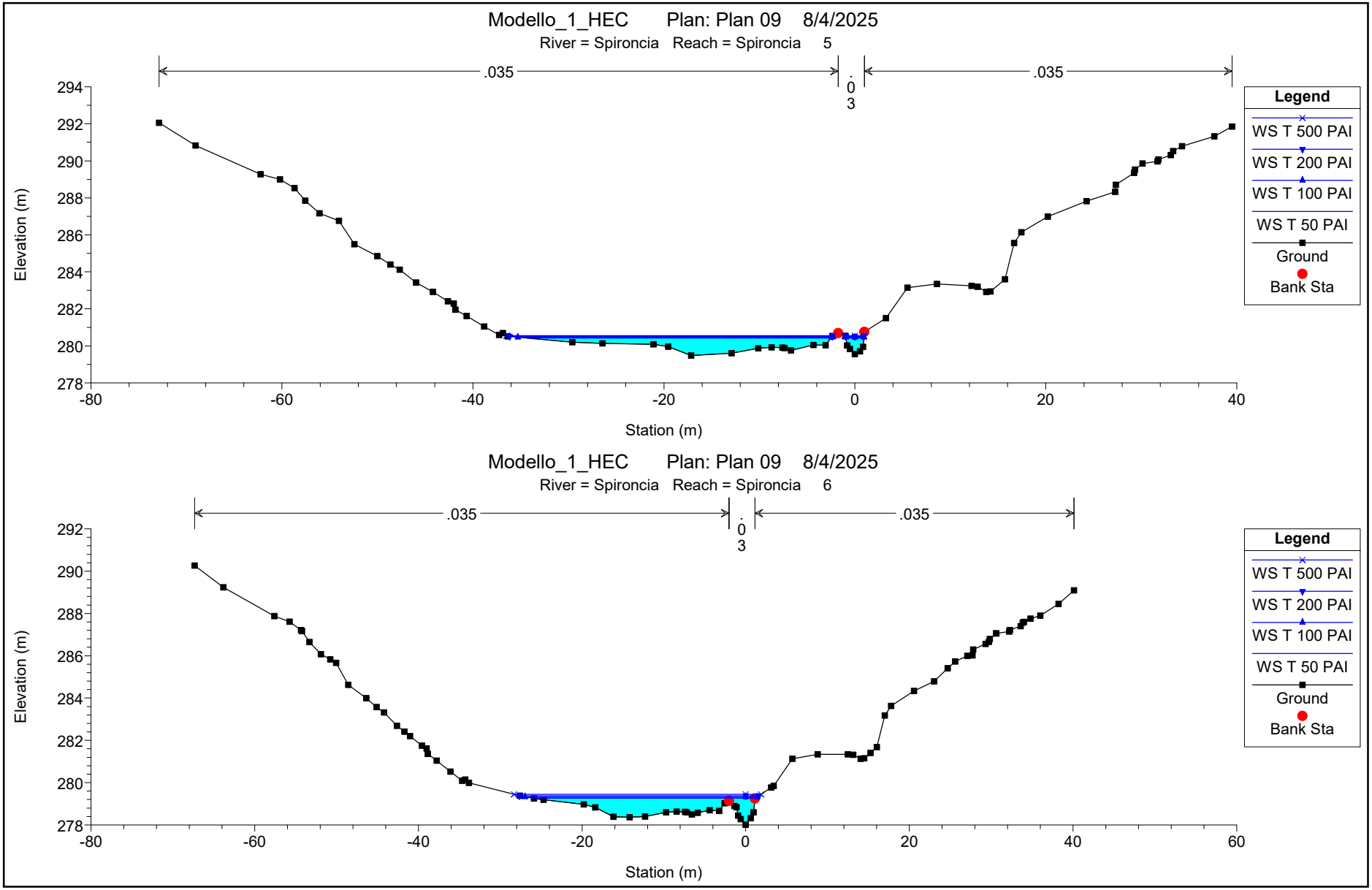

SEDDA IS CORTIS
SOTTO
PRANU SUERGIU
CAMPU PERDADINA
SARAIS
Strada
Prov.le della Marmilla
Rio
Serras
C. Tidu
C. Serra
Fonte Piraferta
Funtana Maori
Bolecu
Pala su Suergiu
Arrubias
Gruttu
Ludu
Pramessa
N.ghe Tura
USELLUS (SERBATOIO)
Vic.le
289.76
267.59
265.93
254.96
256.34
304.37
279.98
285.56
269.27
262.64
254.71
256.16
252.29
294.17
273.85
264.70
251.65
250.04
273.47
259.04
265.75
241.81
245.27
322.10
245.41
236.48
267.29
257.87
254.68
275.63
251.23
239.33
232.28
341.92
302.20
352.88
276.91
315.50
256.18
252.78
244.84
246.42
246.23
244.82
243.32
236.10
234.66
239.84
227.72
314.44
326.42
307.64
289.14
286.98
300.96
269.53
272.34
275.52
275.78
302.71
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254.16
274.62
236.34
236.64
301.20
300.36
309.42
264.24
266.70

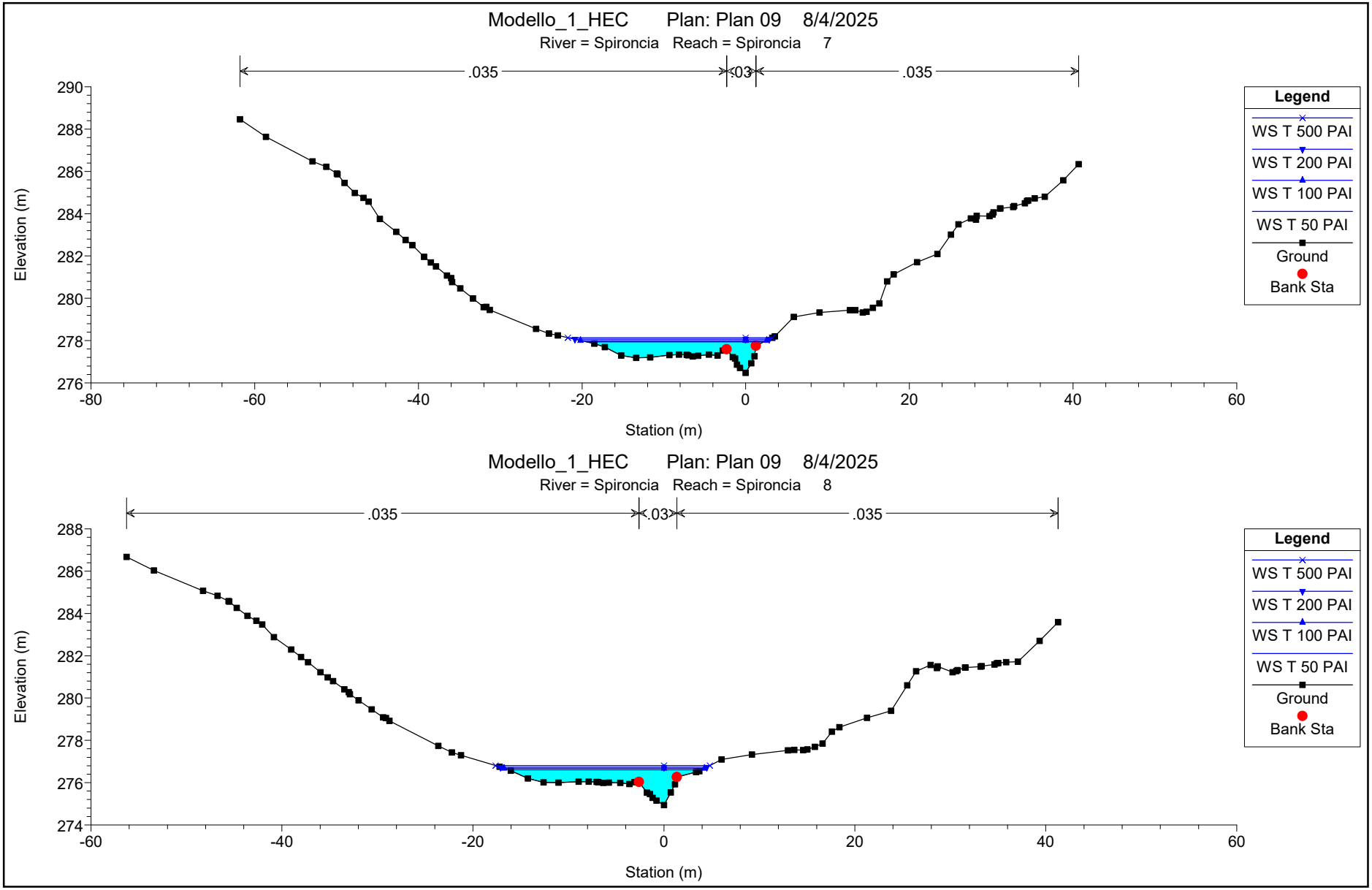
Modello_1_HEC Plan: Plan 09 8/4/2025

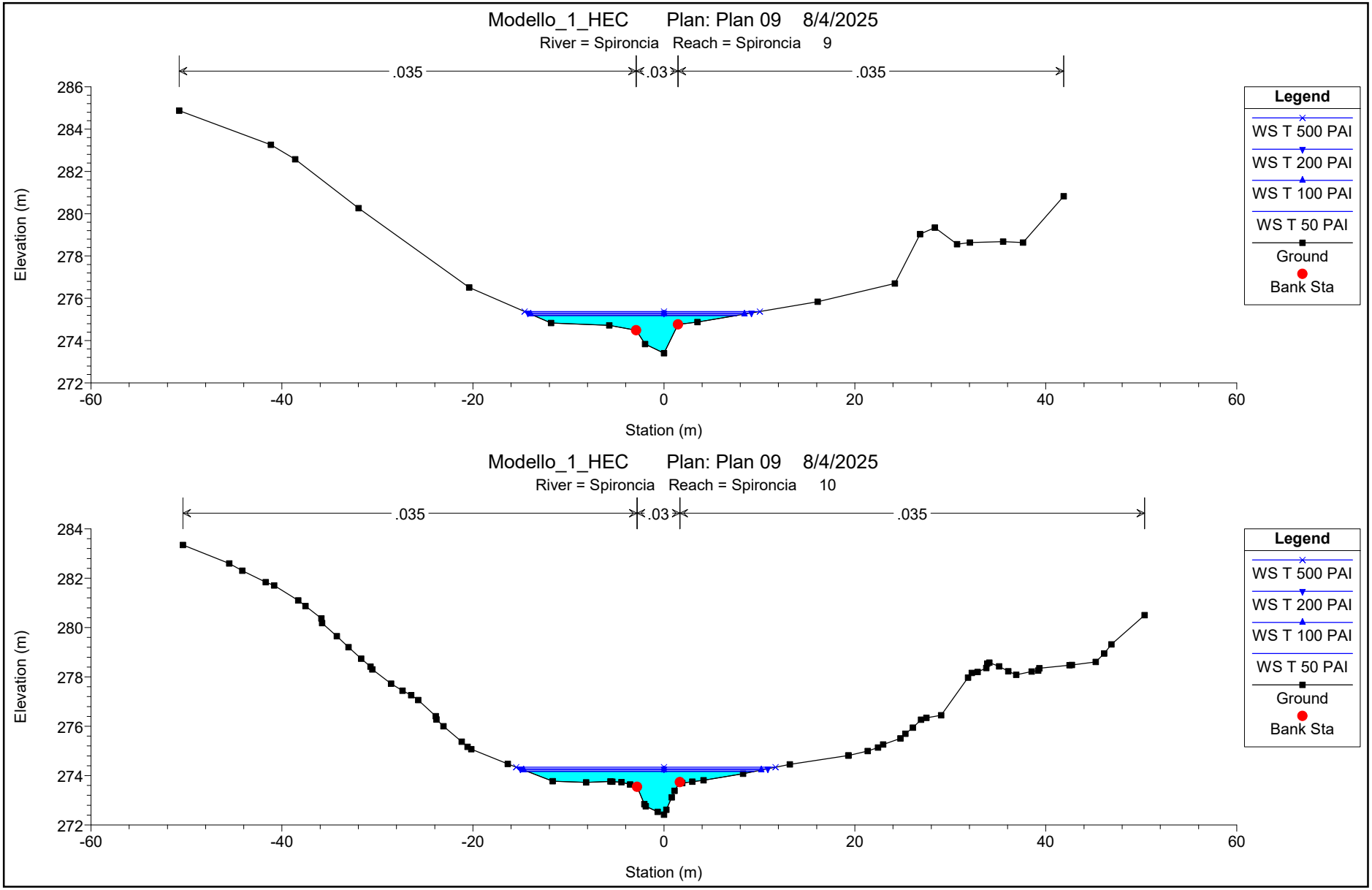


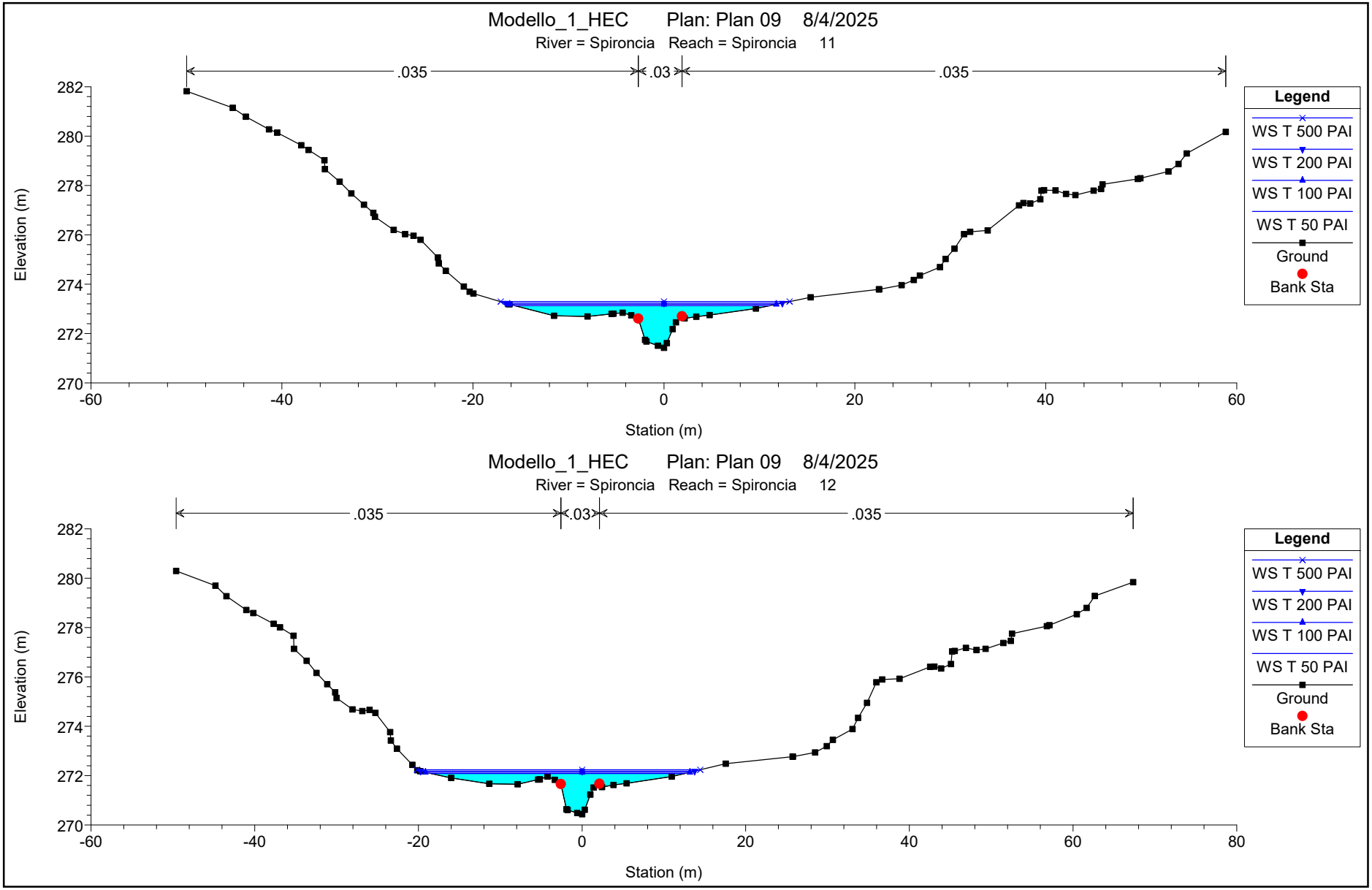

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 1
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 2
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

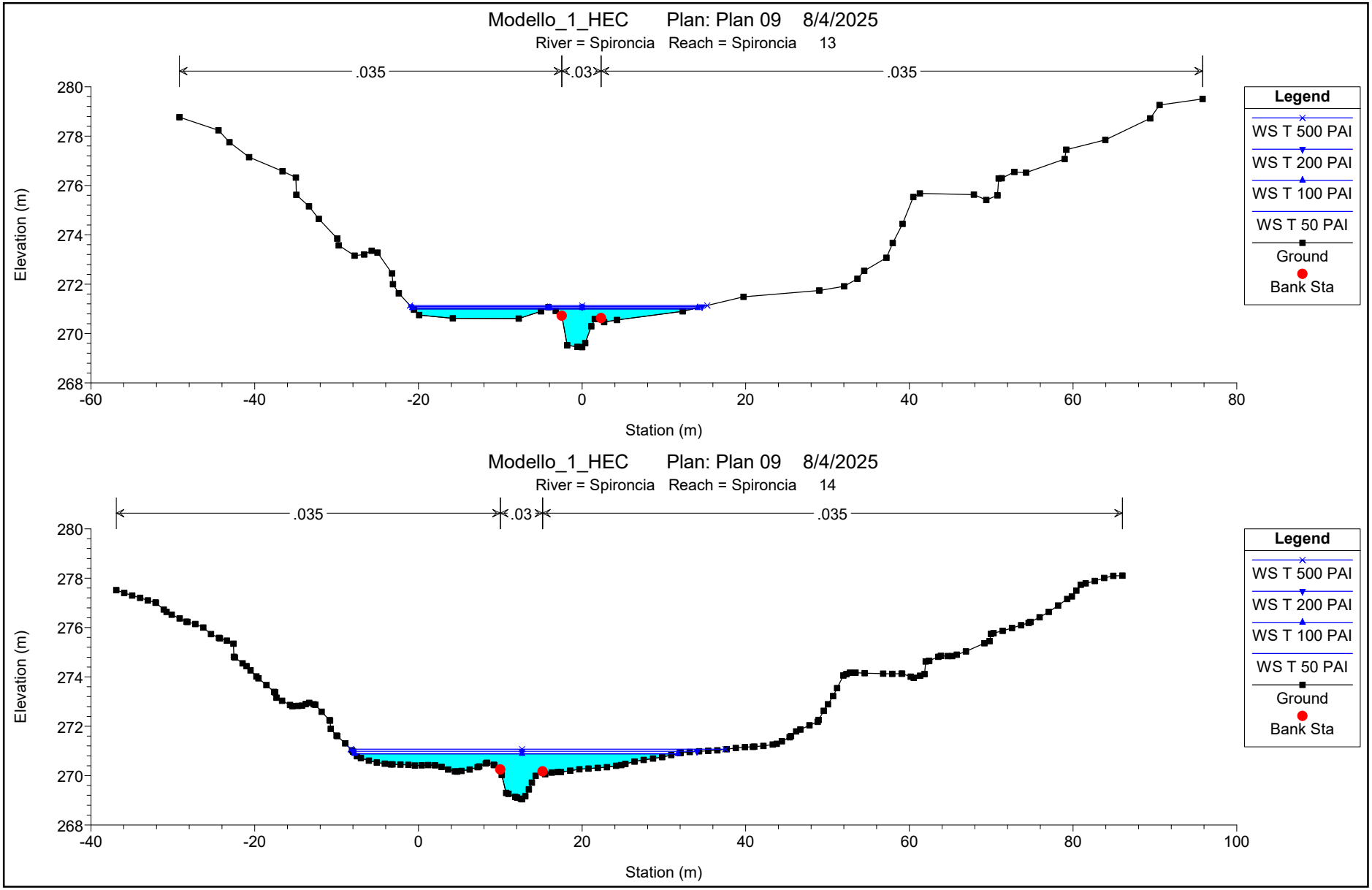

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 3
.035
.03
.035
Elevation (m)
296
294
292
290
288
286
284
282
280
-60
-40
-20
0
20
40
60
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 4
.035
.03
.035
Elevation (m)
294
292
290
288
286
284
282
280
-80
-60
-40
-20
0
20
40
60
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

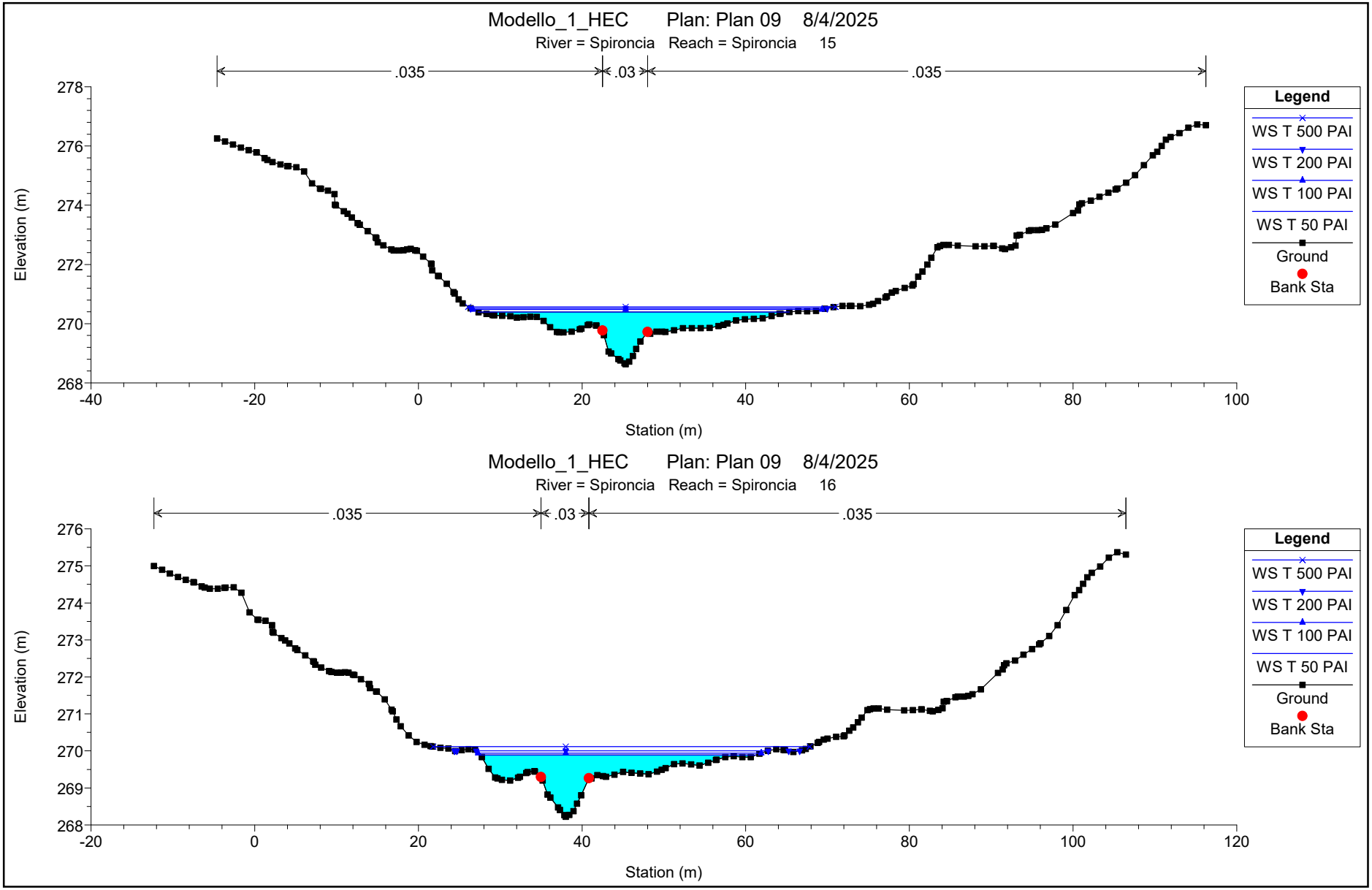

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 5
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 6
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

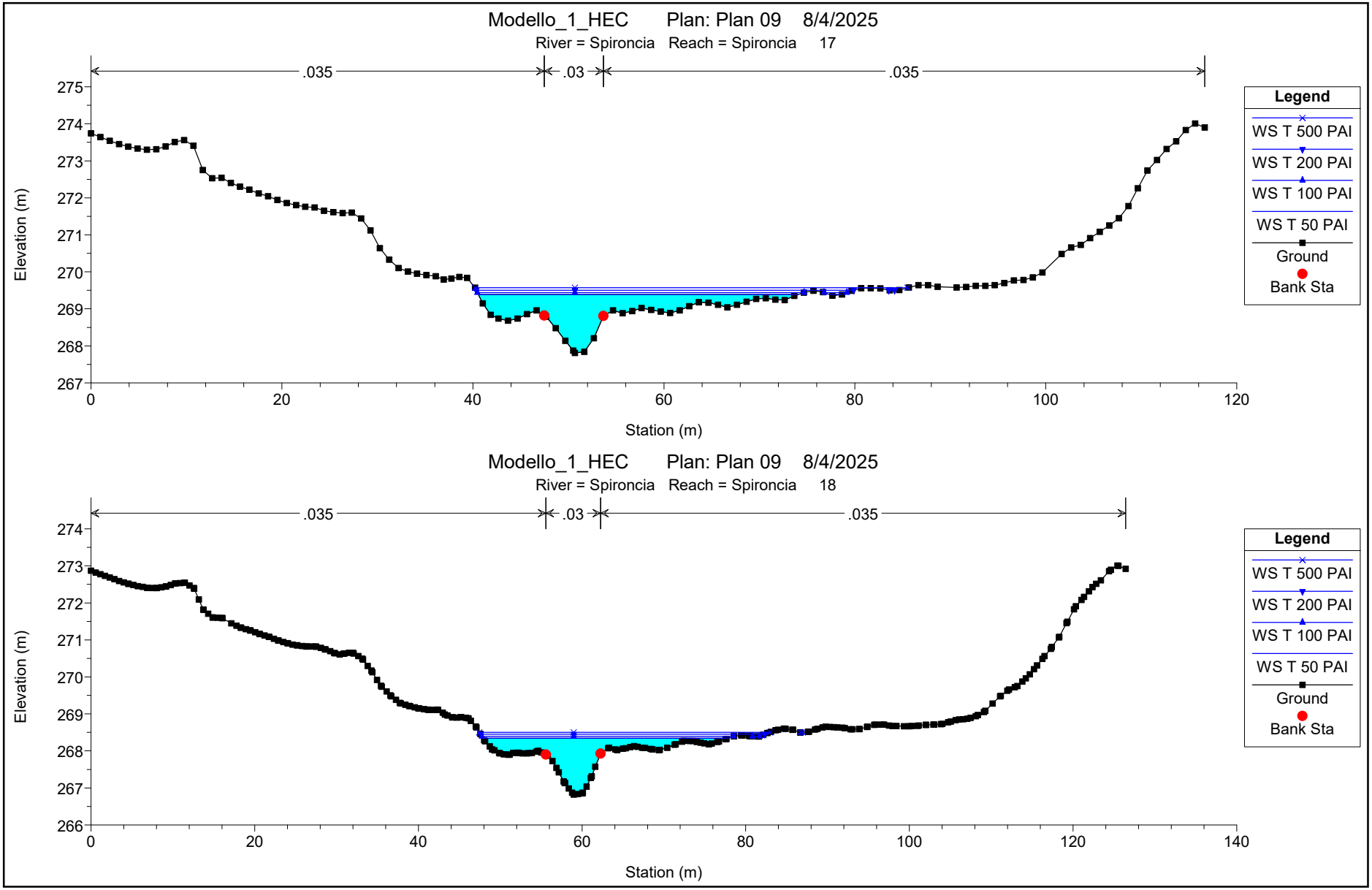

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 7
.035
.03
.035
Elevation (m)
290
288
286
284
282
280
278
276
-80
-60
-40
-20
0
20
40
60
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 8
.035
.03
.035
Elevation (m)
288
286
284
282
280
278
276
274
-60
-40
-20
0
20
40
60
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

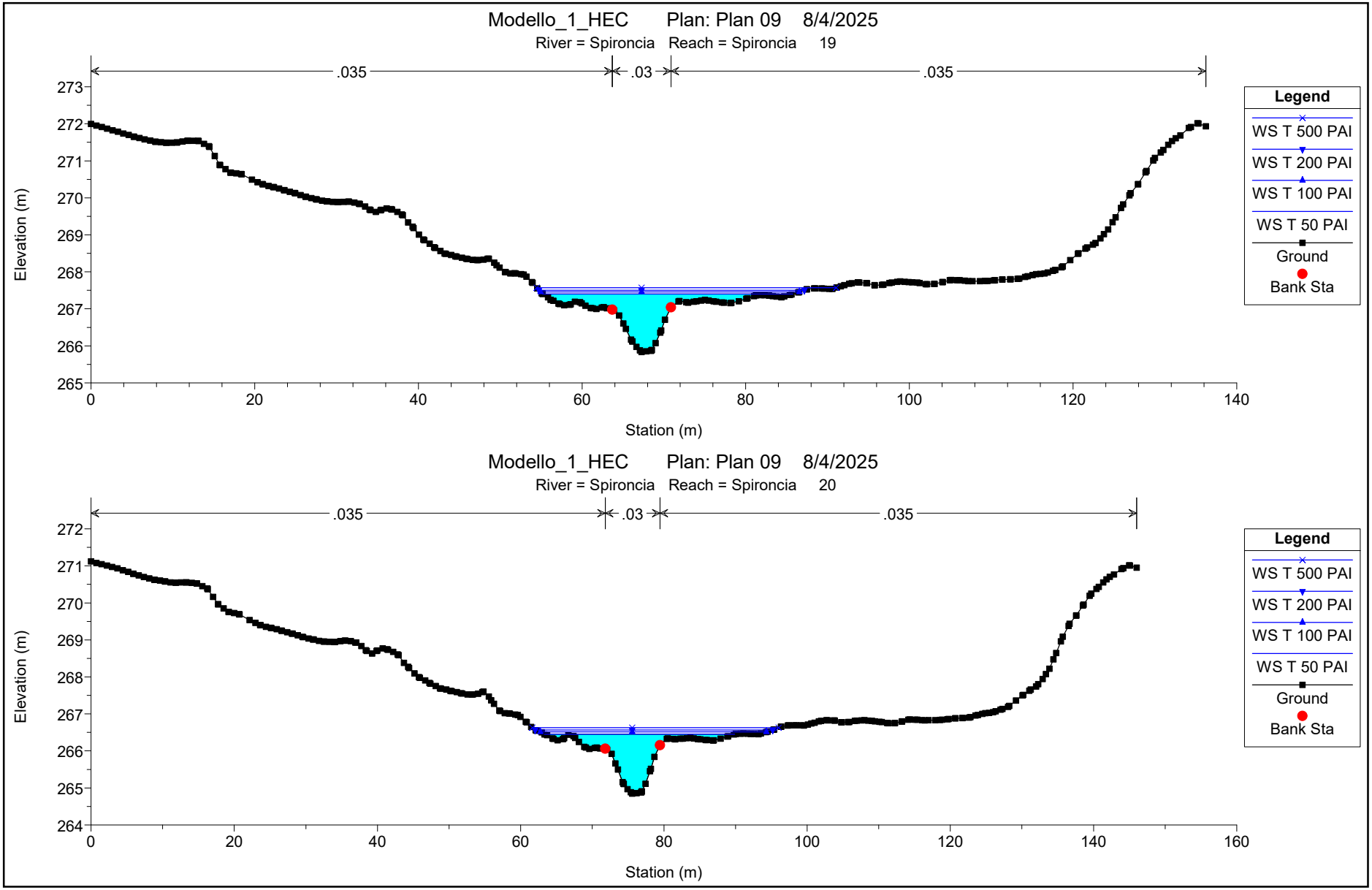

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 9
.035
.03
.035
Elevation (m)
286
284
282
280
278
276
274
272
-60
-40
-20
0
20
40
60
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 10
.035
.03
.035
Elevation (m)
284
282
280
278
276
274
272
-60
-40
-20
0
20
40
60
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

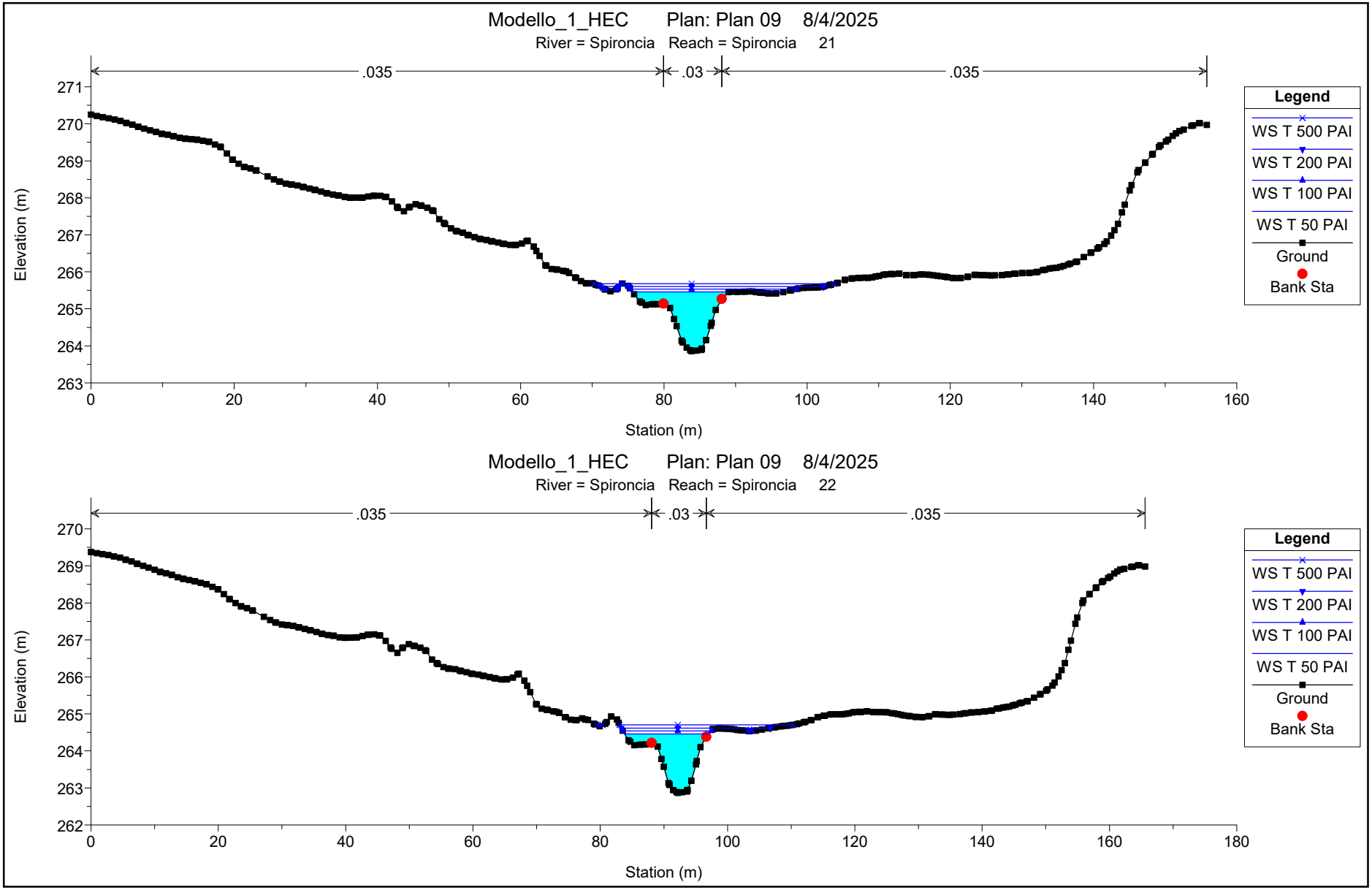

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 11
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 12
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

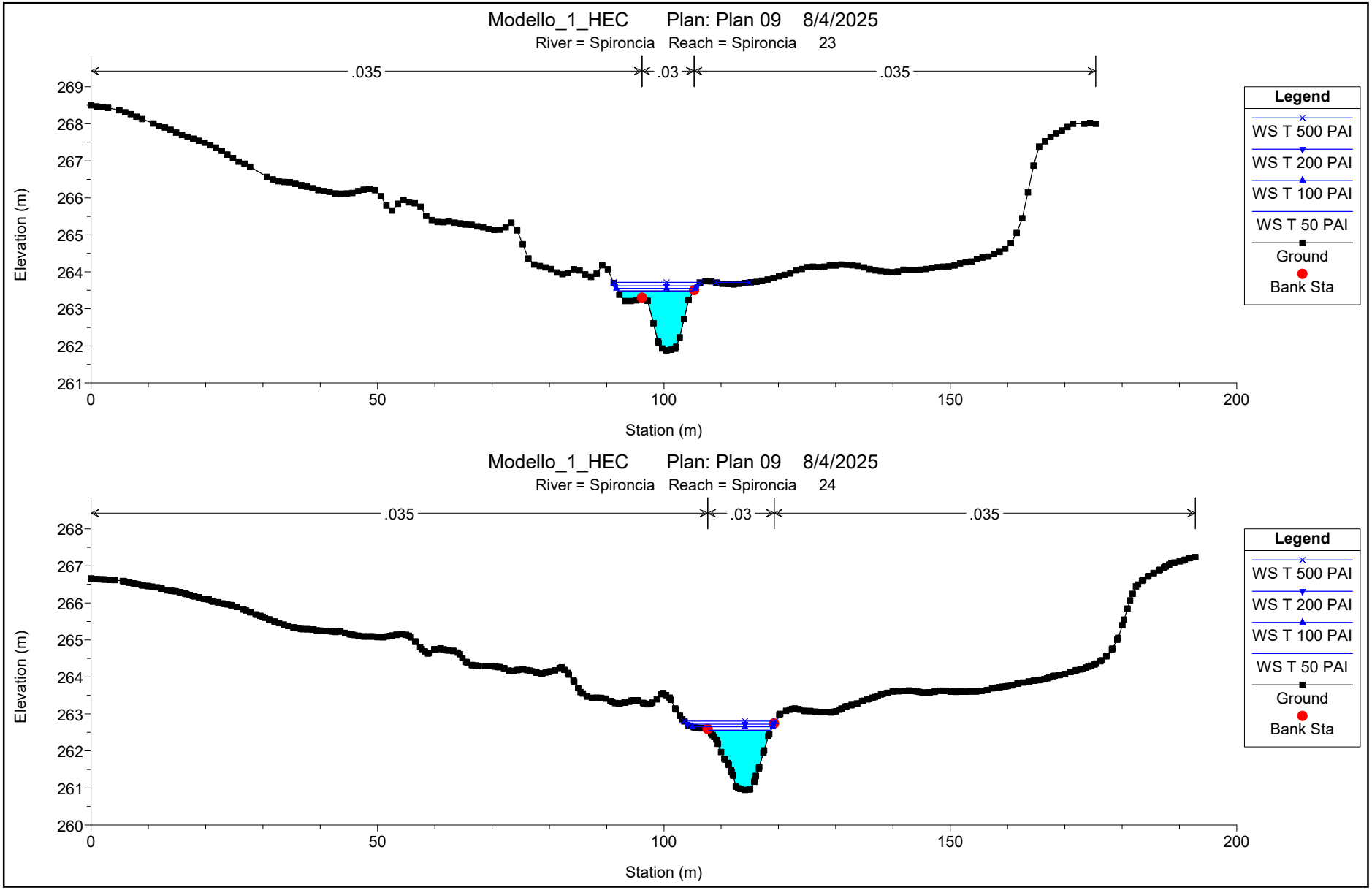

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 13
.035
.03
.035
Elevation (m)
280
278
276
274
272
270
268
-60
-40
-20
0
20
40
60
80
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 14
.035
.03
.035
Elevation (m)
280
278
276
274
272
270
268
-40
-20
0
20
40
60
80
100
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

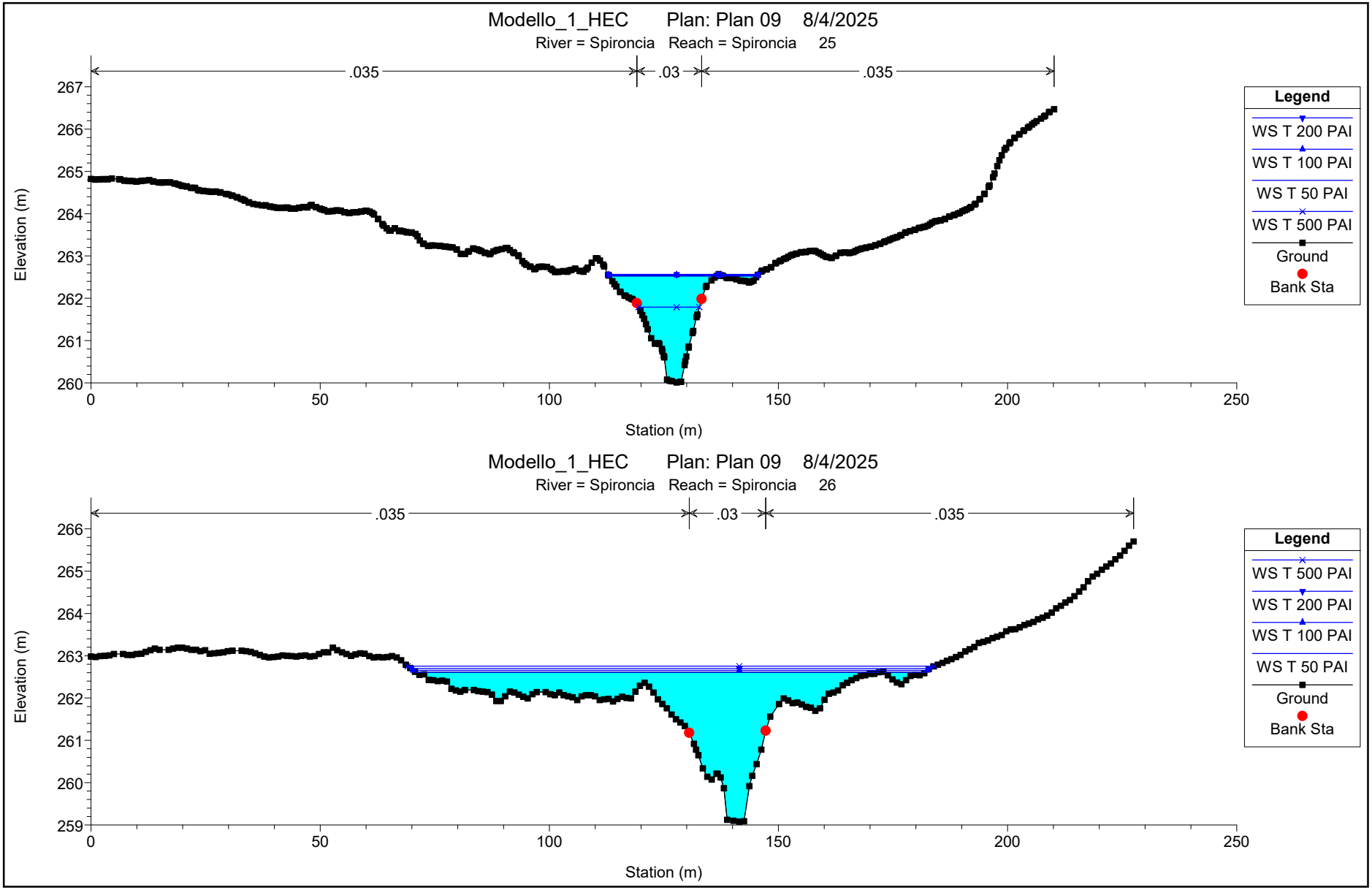

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 15
.035
.03
.035
Elevation (m)
278
276
274
272
270
268
-40
-20
0
20
40
60
80
100
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 16
.035
.03
.035
Elevation (m)
276
275
274
273
272
271
270
269
268
-20
0
20
40
60
80
100
120
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

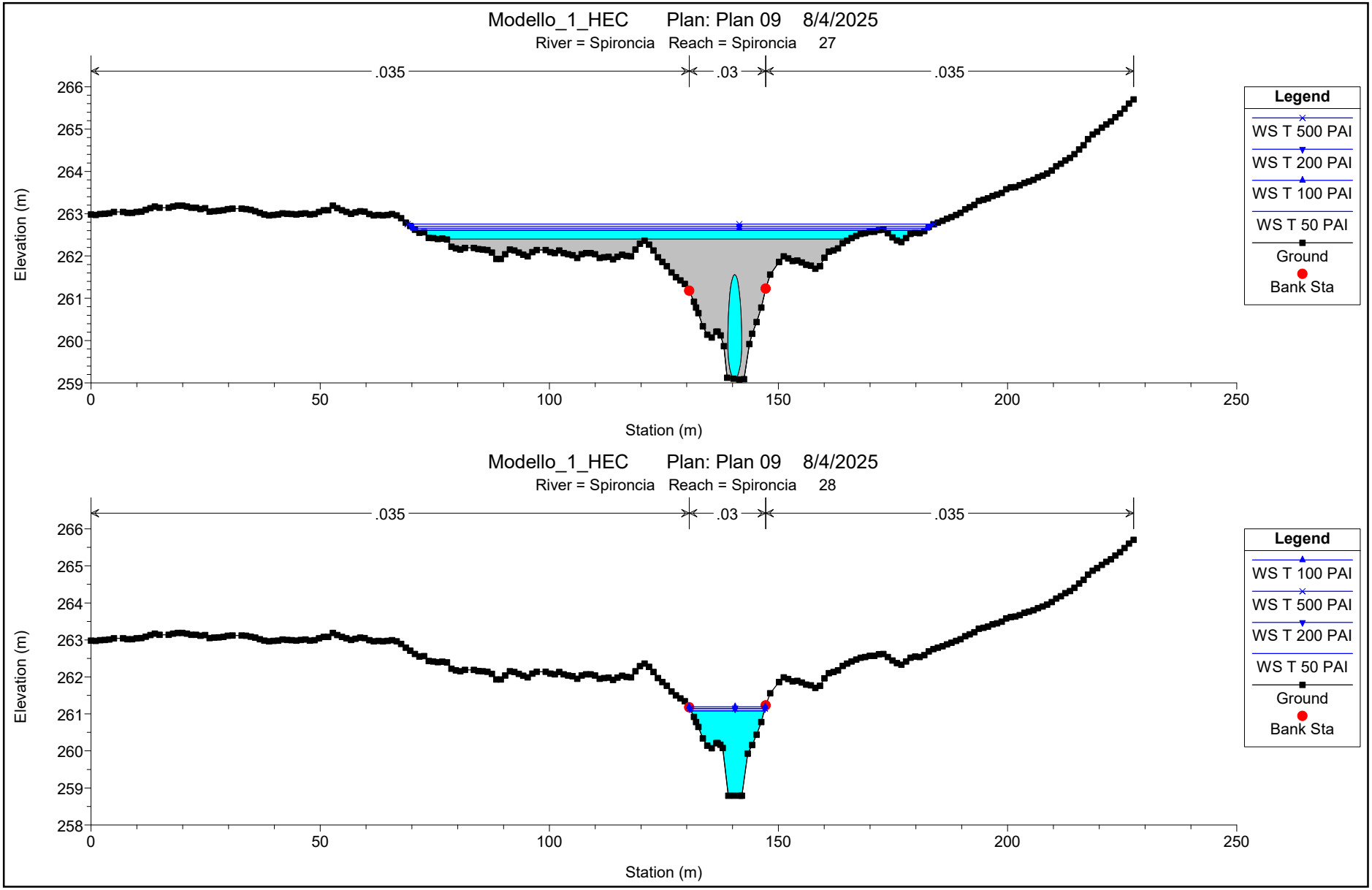

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 17
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 18
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

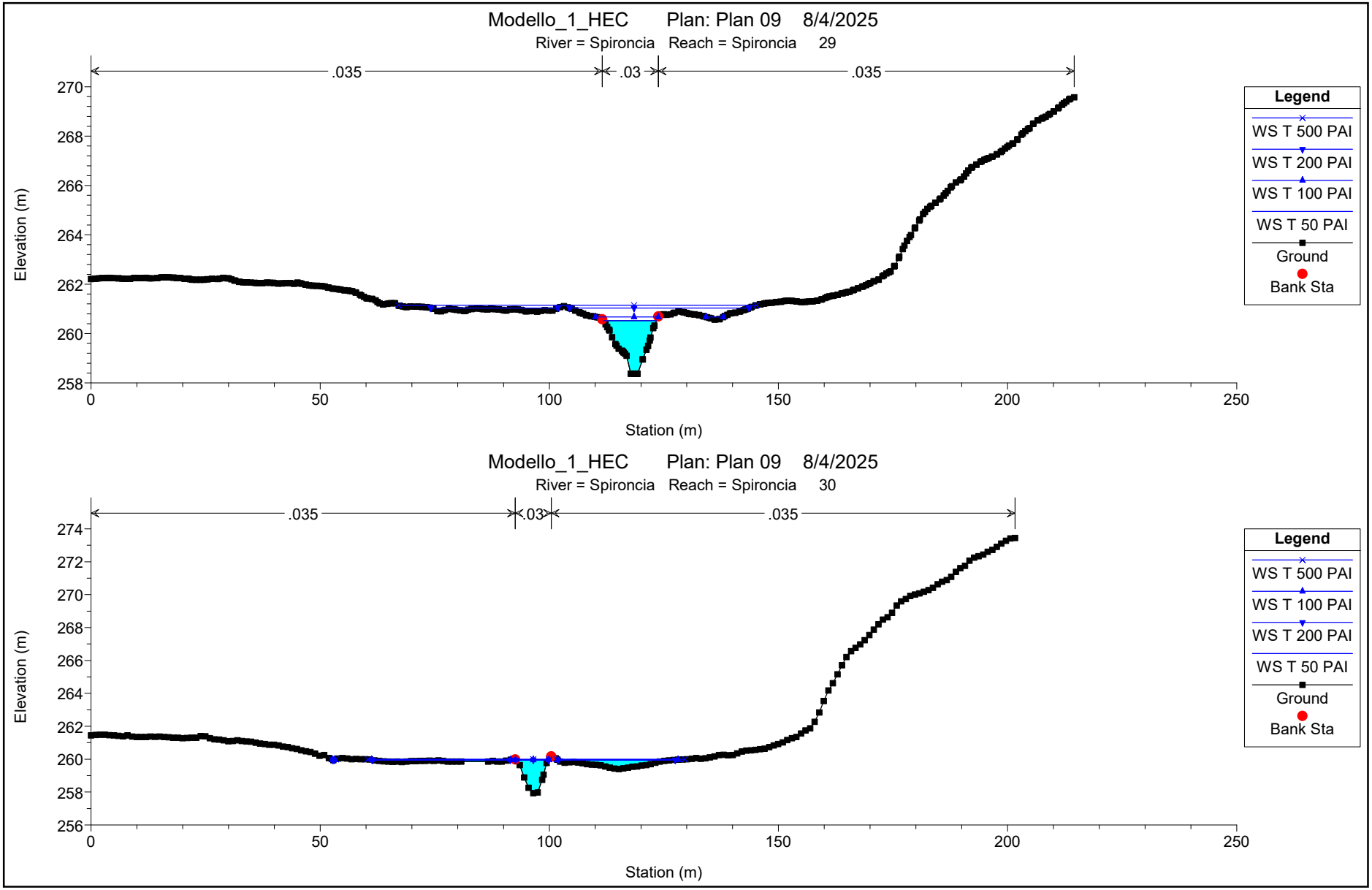

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 19
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 20
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

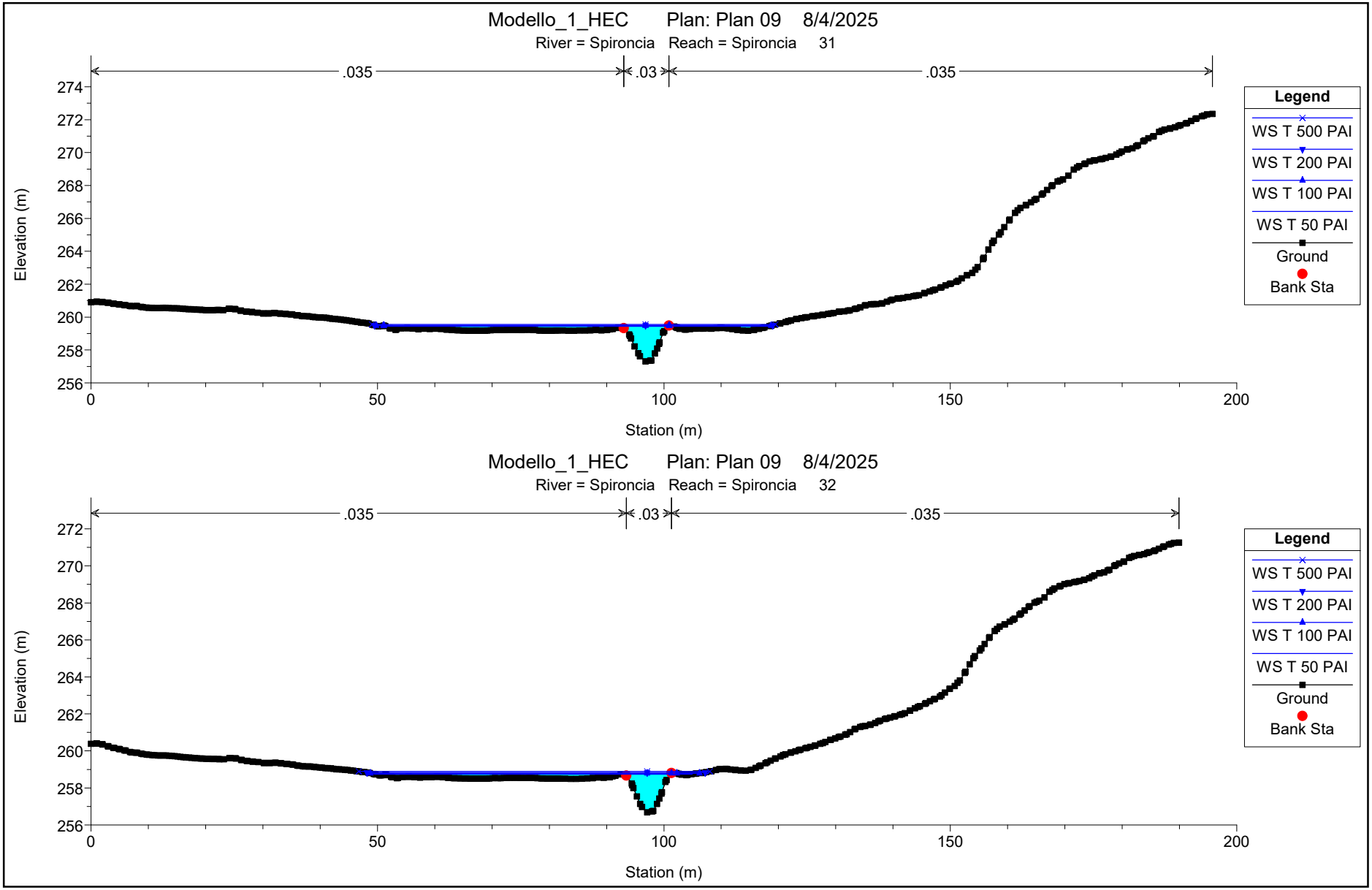

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 21
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 22
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

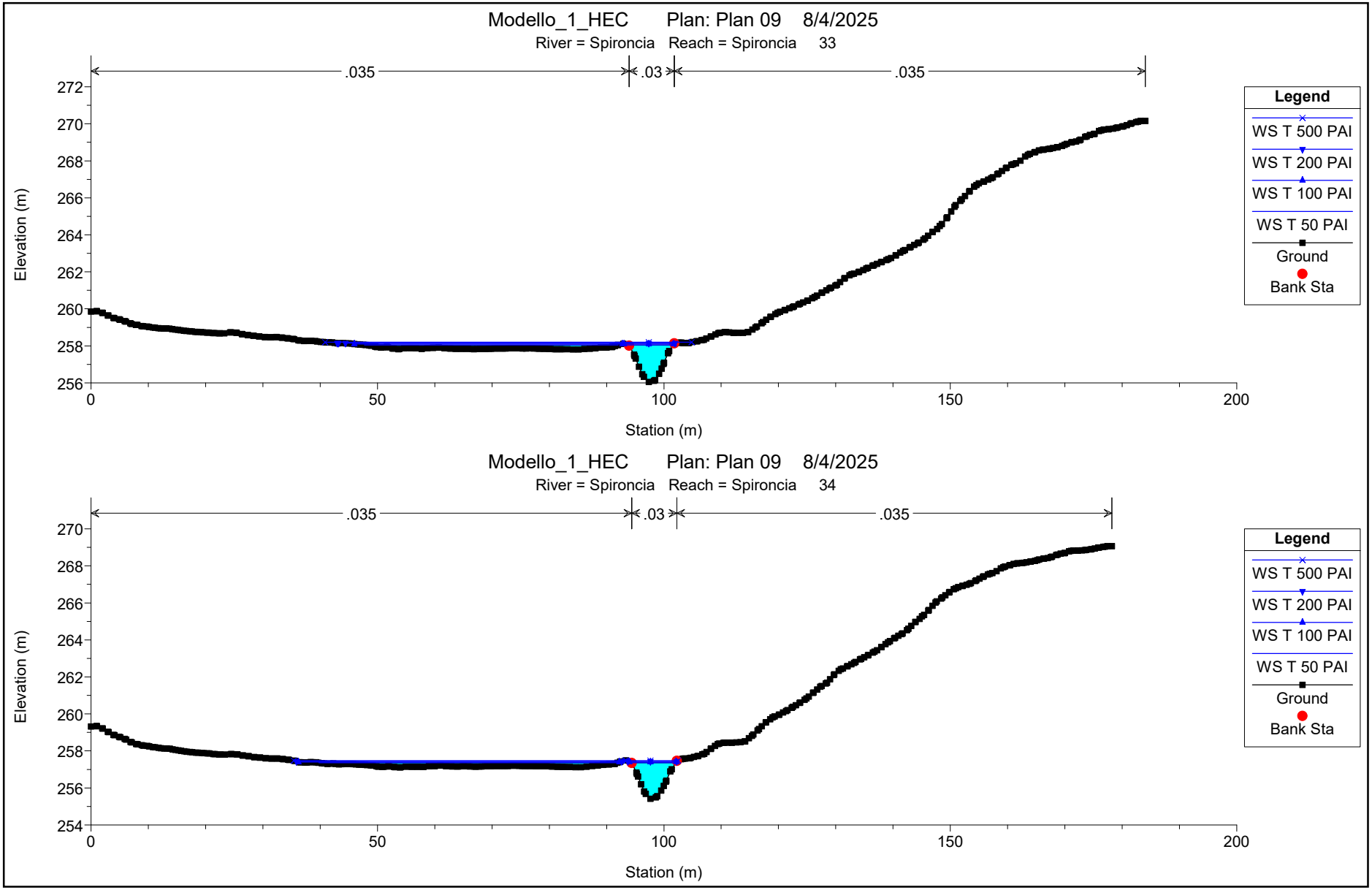

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 23
.035
.03
.035
Elevation (m)
269
268
267
266
265
264
263
262
261
0
50
100
150
200
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 24
.035
.03
.035
Elevation (m)
268
267
266
265
264
263
262
261
260
0
50
100
150
200
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

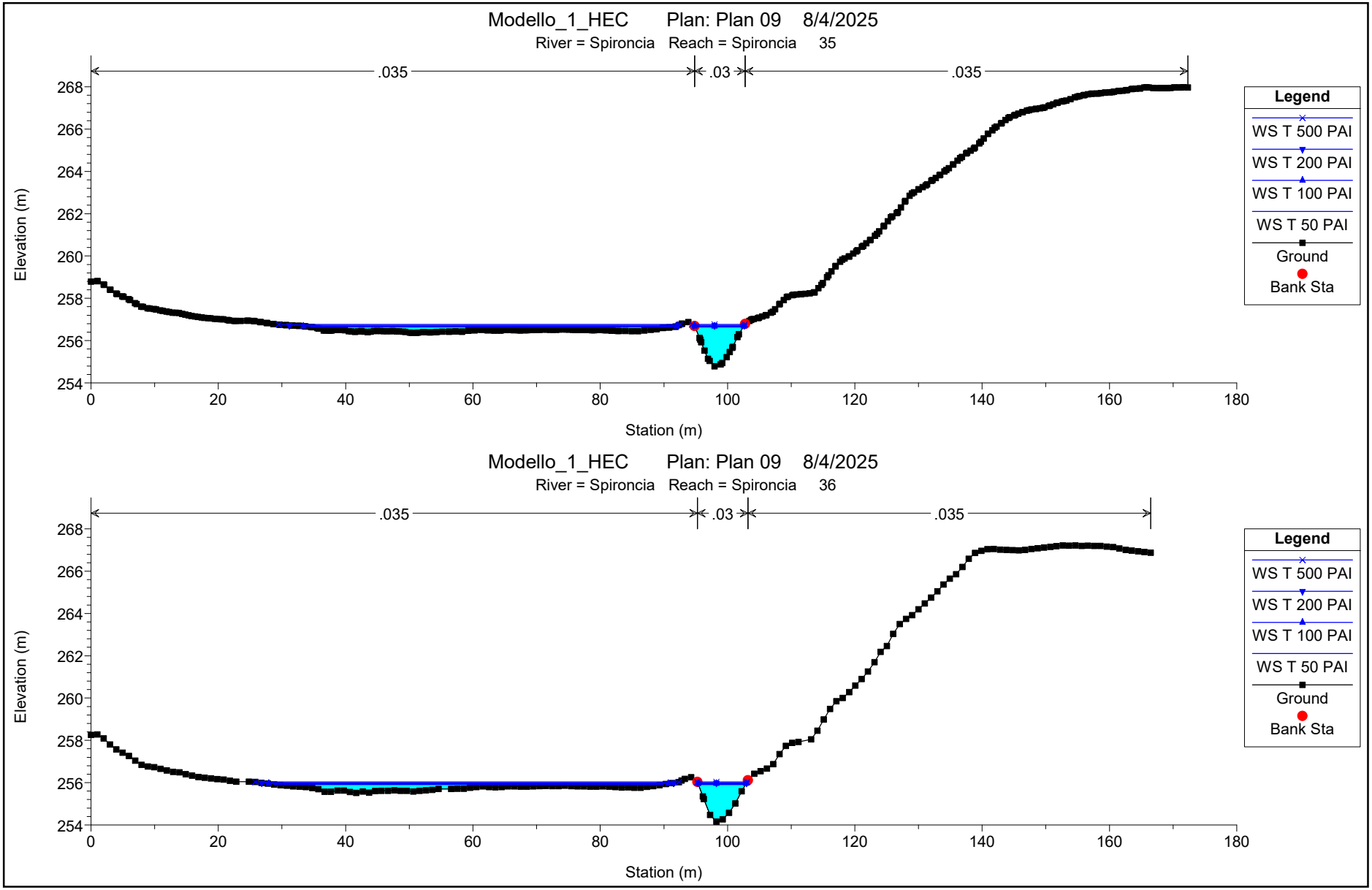

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 25
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
WS T 500 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 26
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

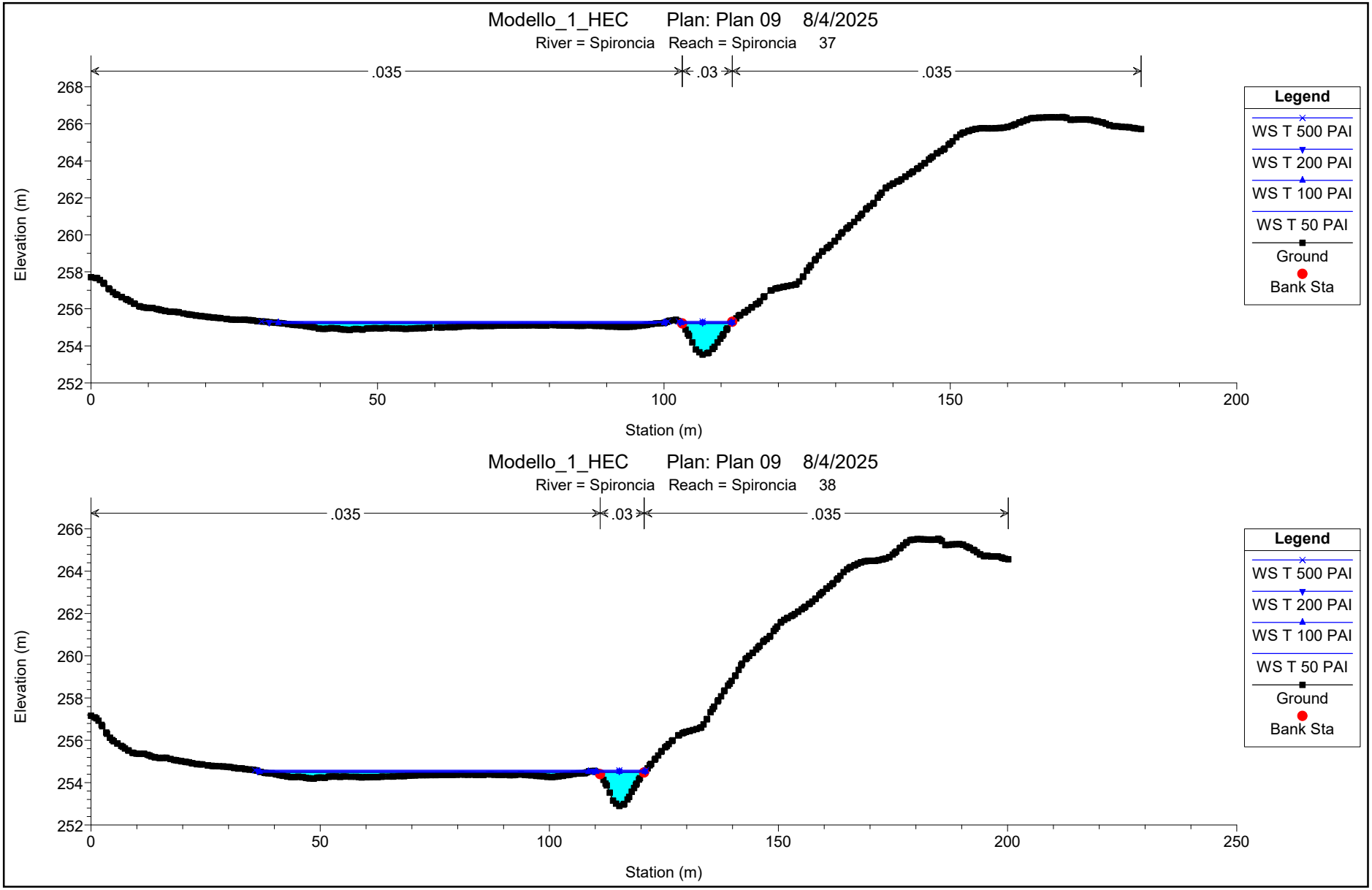

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 27
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 28
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 100 PAI
WS T 500 PAI
WS T 200 PAI
WS T 50 PAI
Ground
Bank Sta

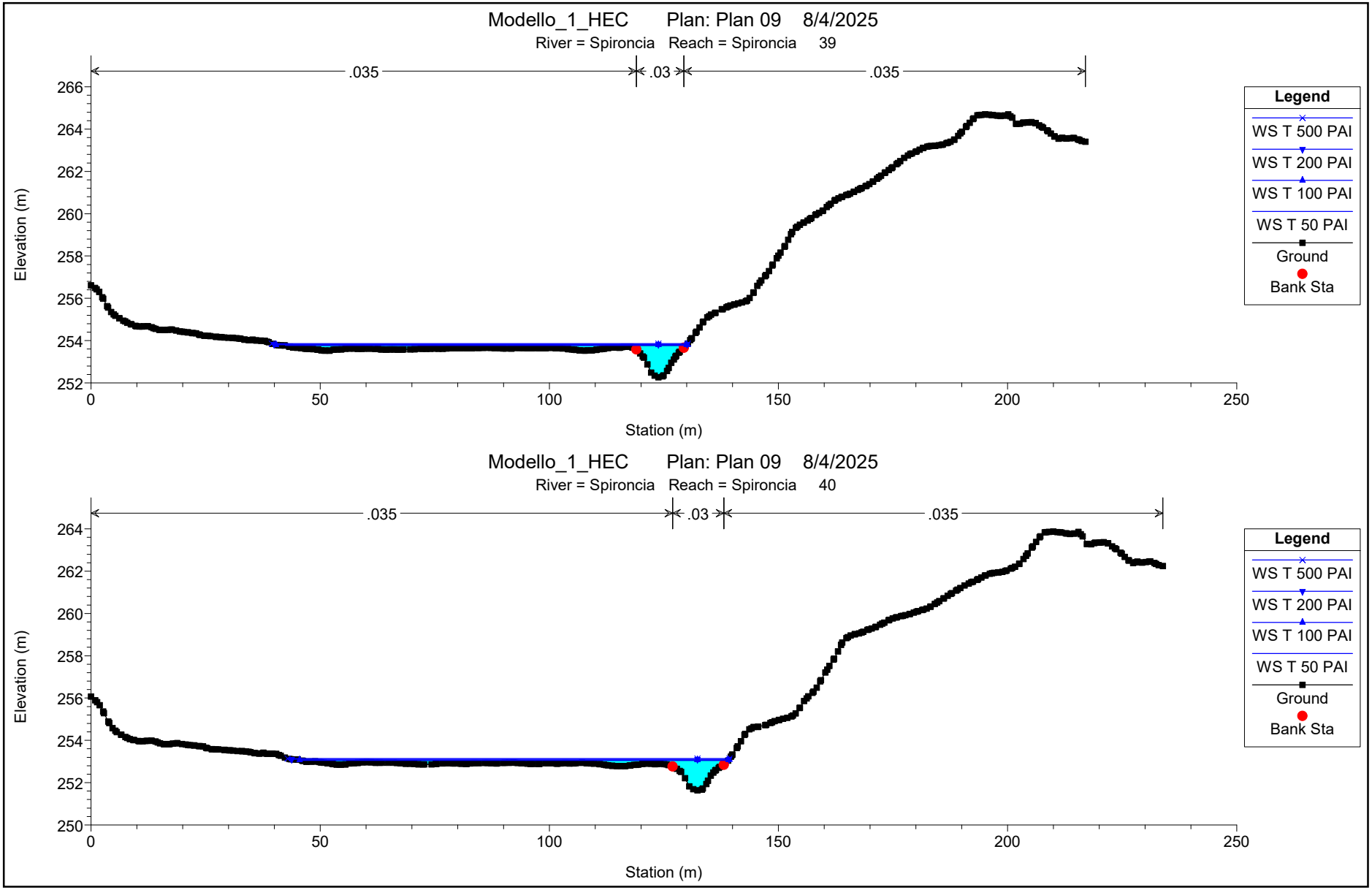

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 29
.035
.03
.035
Elevation (m)
270
268
266
264
262
260
258
0
50
100
150
200
250
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 30
.035
.03
.035
Elevation (m)
274
272
270
268
266
264
262
260
258
256
0
50
100
150
200
250
Station (m)
Legend
WS T 500 PAI
WS T 100 PAI
WS T 200 PAI
WS T 50 PAI
Ground
Bank Sta

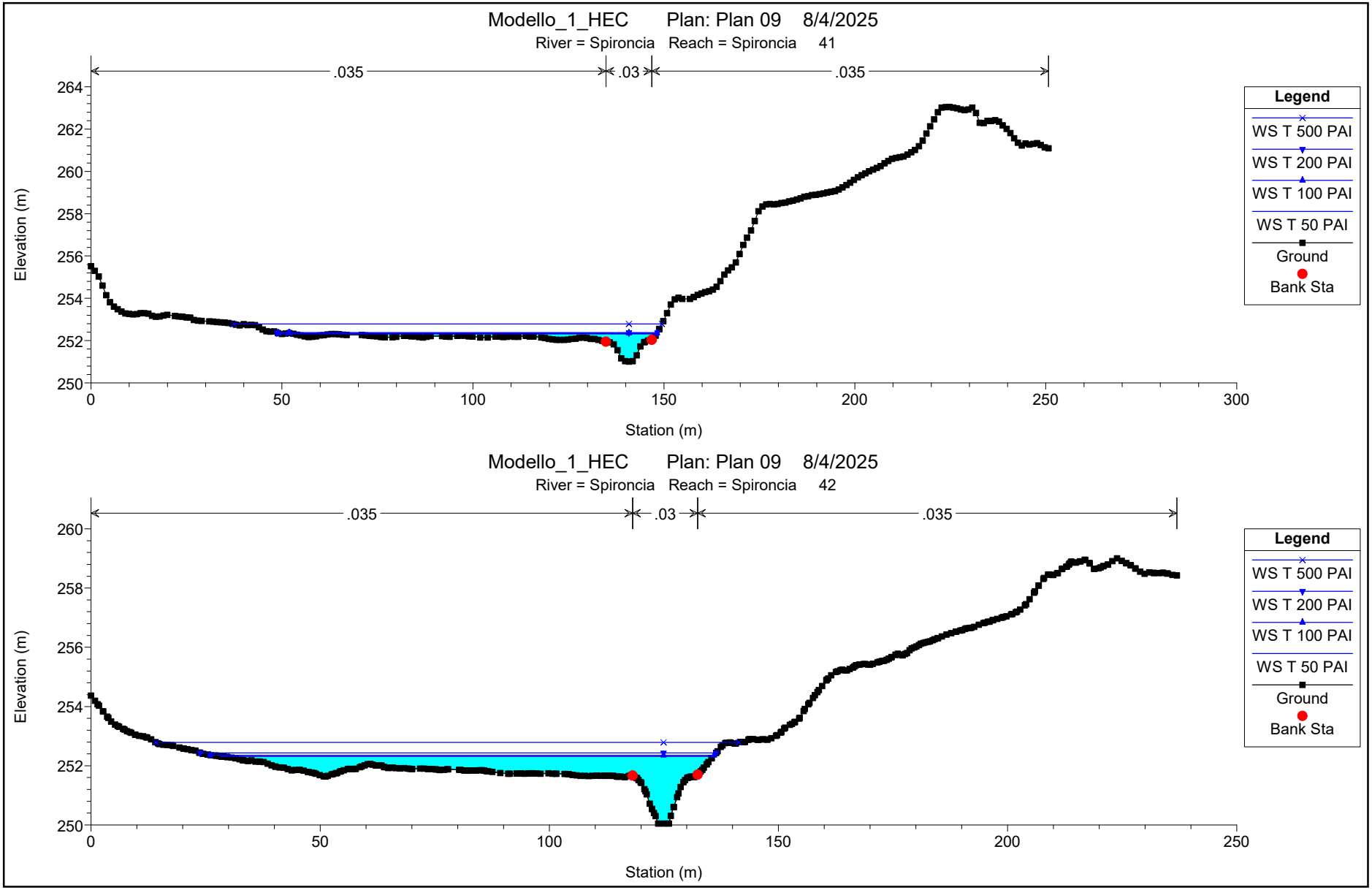

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 31
.035
.03
.035
Elevation (m)
274
272
270
268
266
264
262
260
258
256
0
50
100
150
200
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 32
.035
.03
.035
Elevation (m)
272
270
268
266
264
262
260
258
256
0
50
100
150
200
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

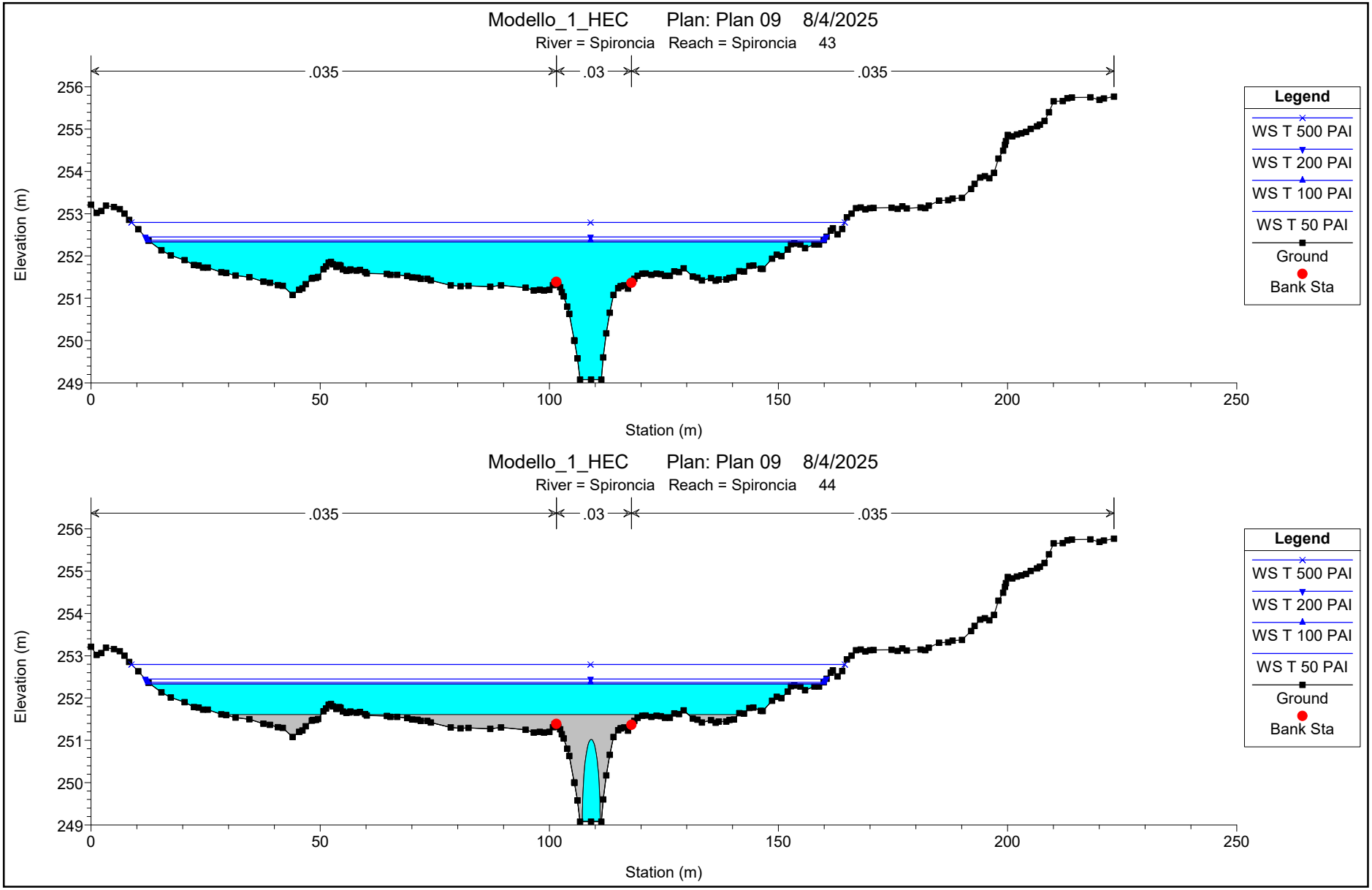

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 33
.035
.03
.035
Elevation (m)
272
270
268
266
264
262
260
258
256
0
50
100
150
200
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 34
.035
.03
.035
Elevation (m)
270
268
266
264
262
260
258
256
254
0
50
100
150
200
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

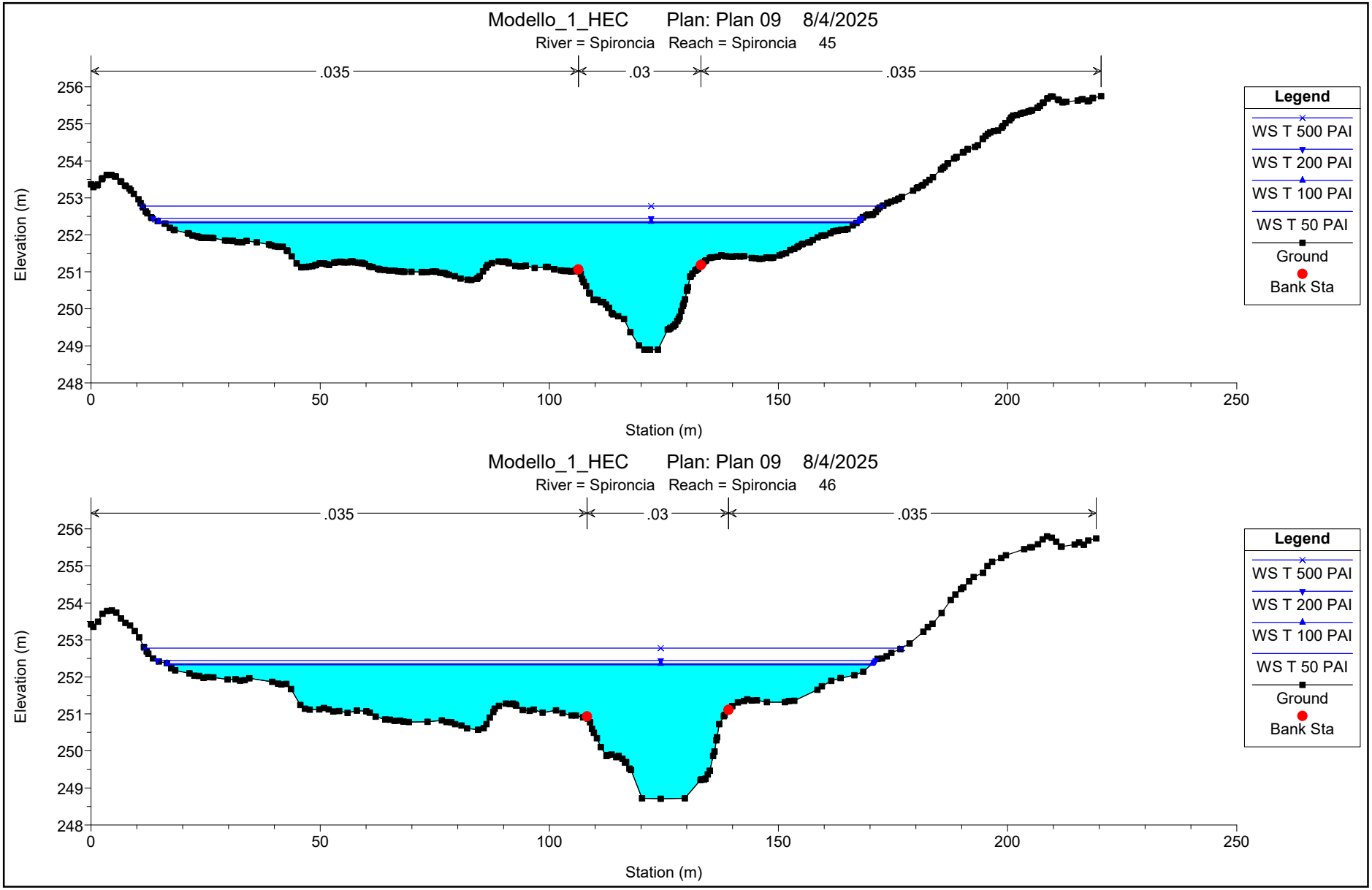

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 35
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 36
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

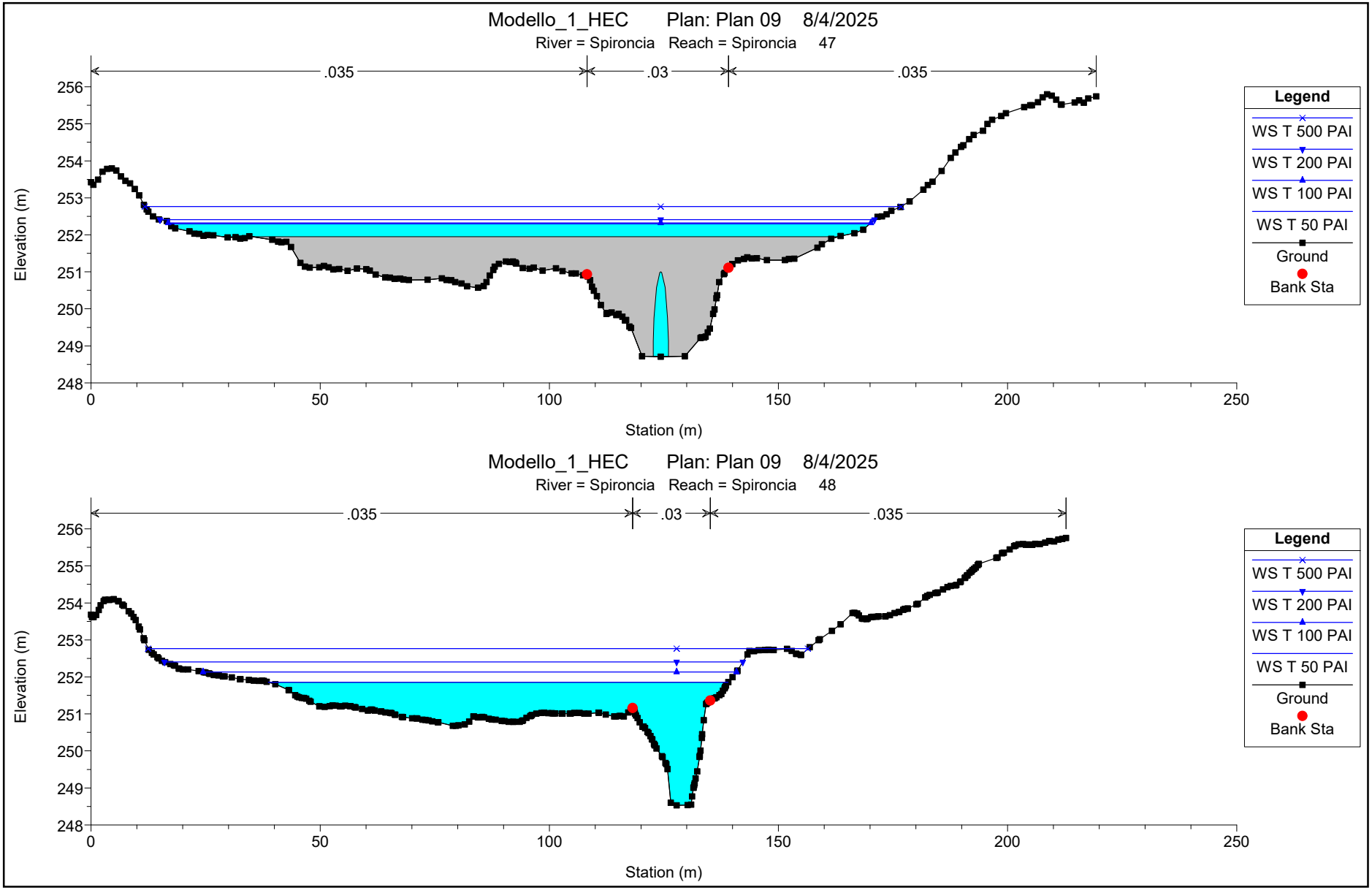

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 37
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 38
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

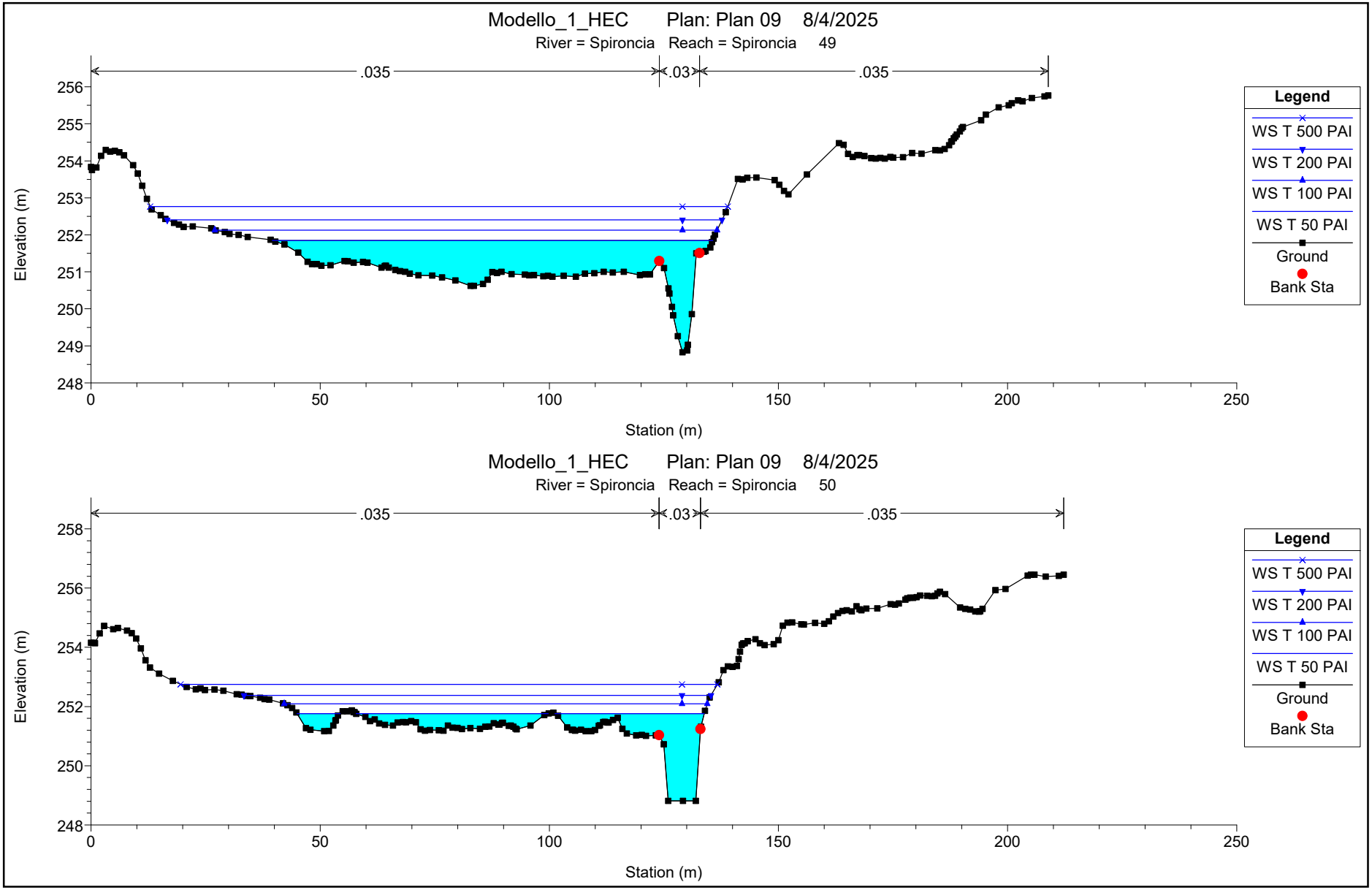

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 39
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 40
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

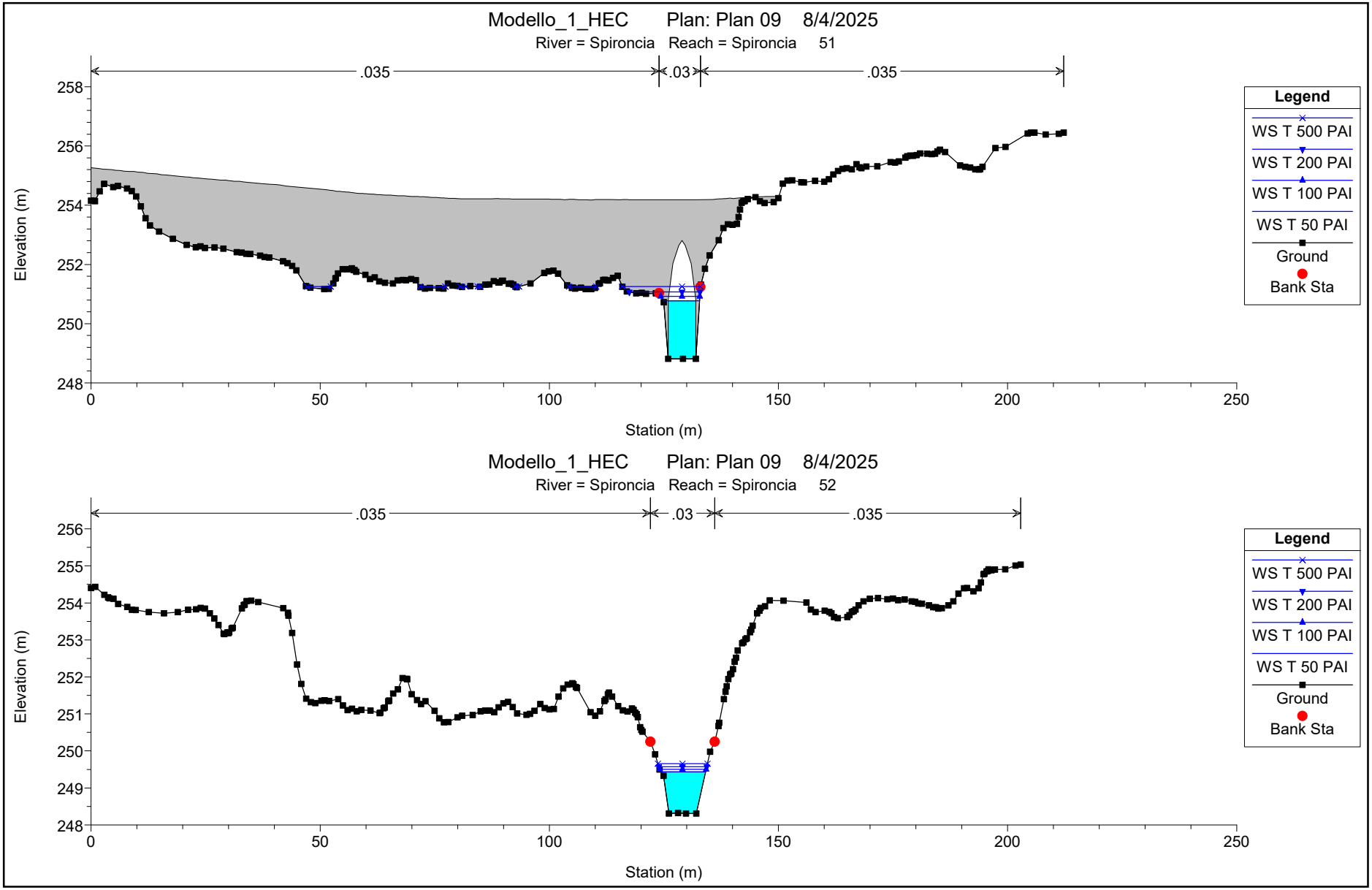

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 41
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 42
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

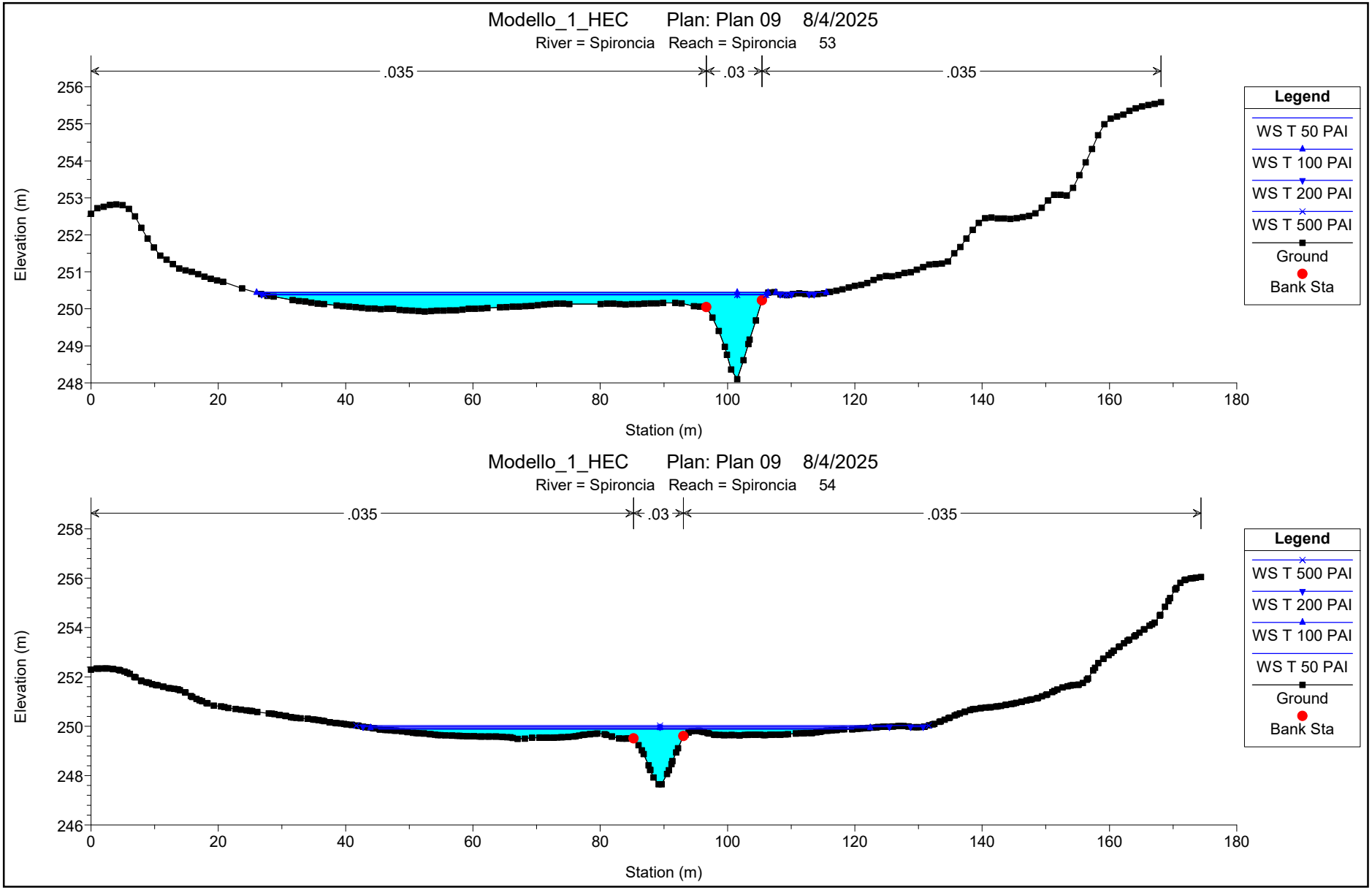

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 43
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 44
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

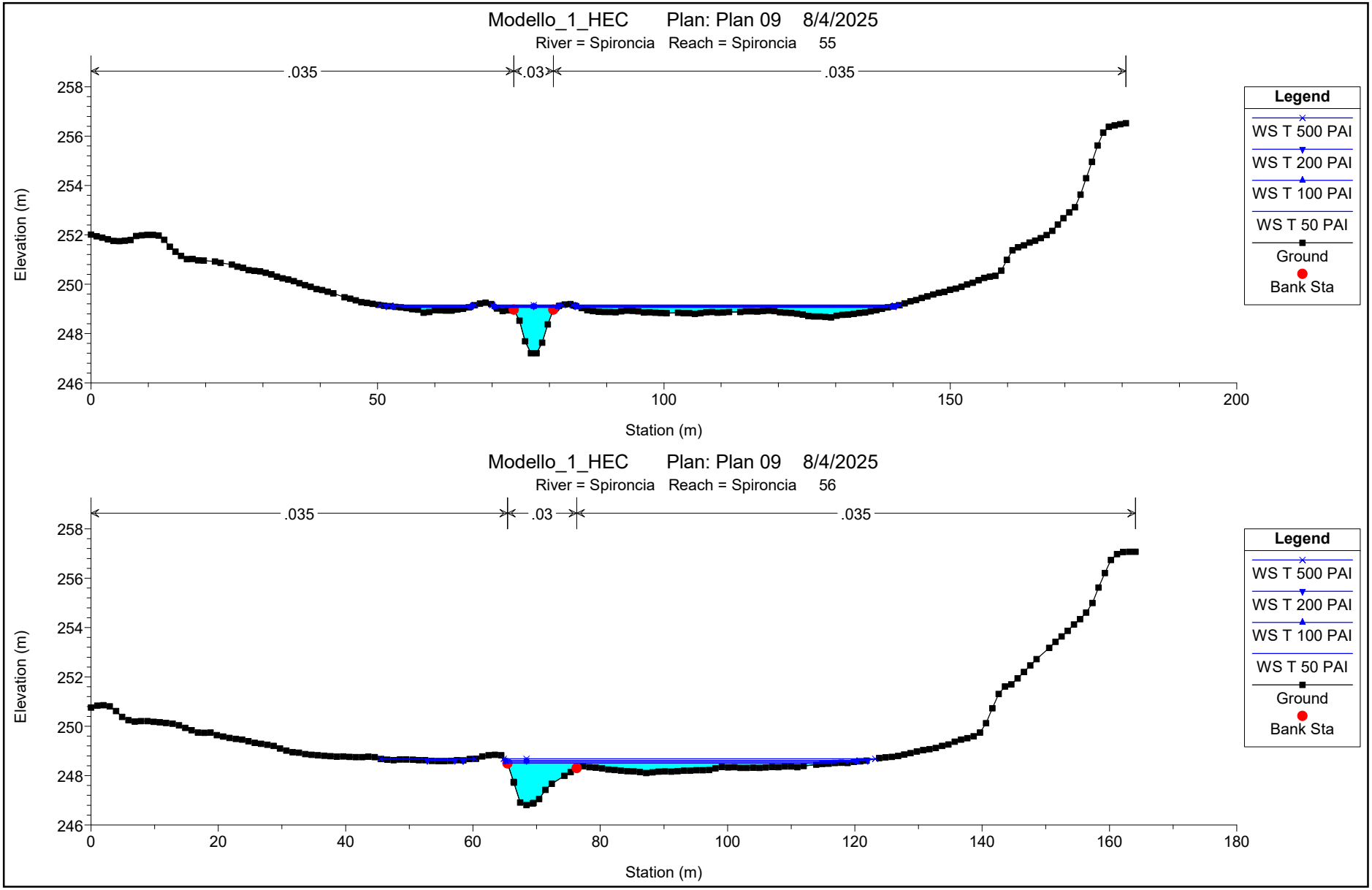

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 45
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 46
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

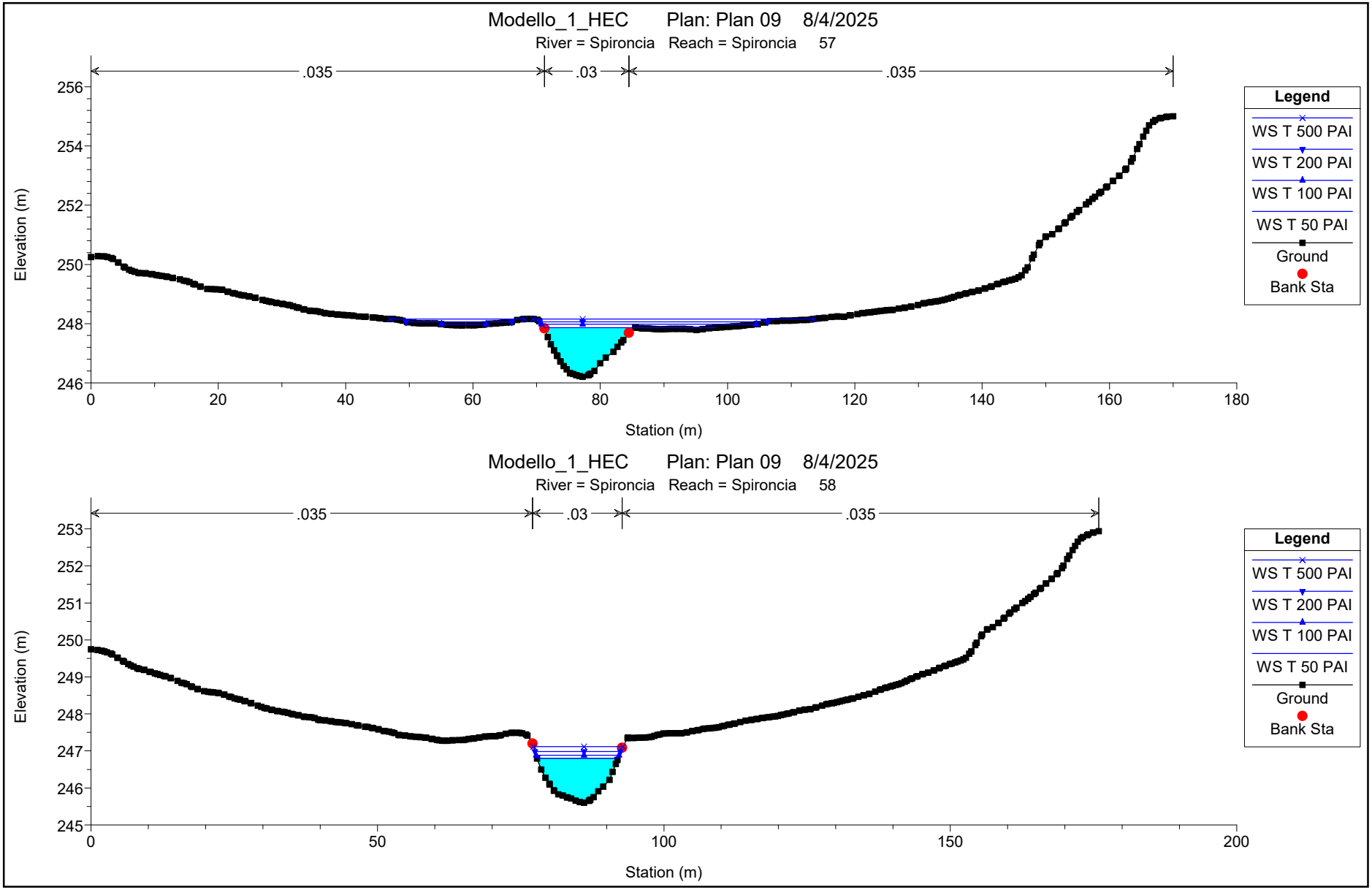

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 47
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 48
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

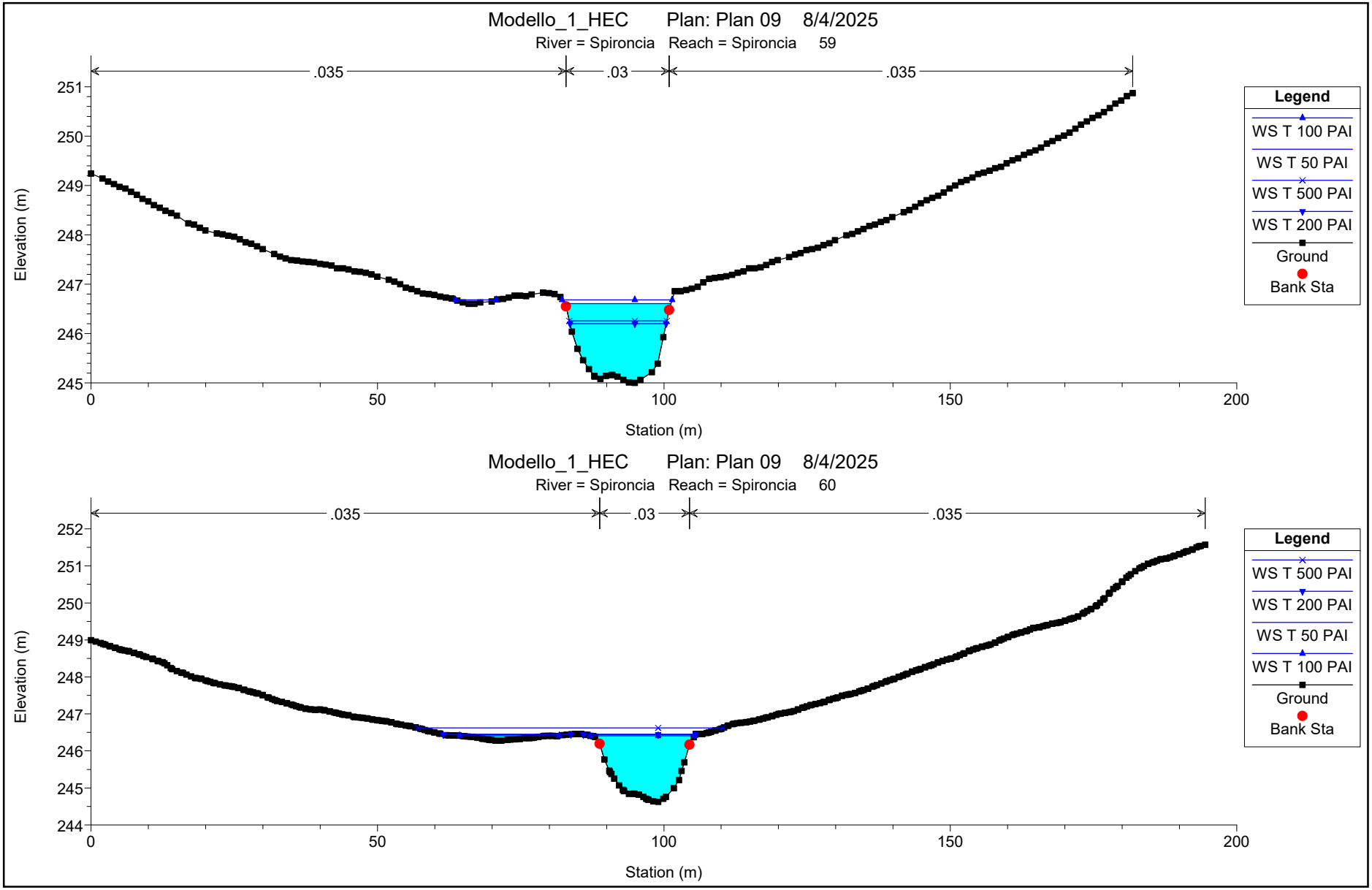

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 49
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 50
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

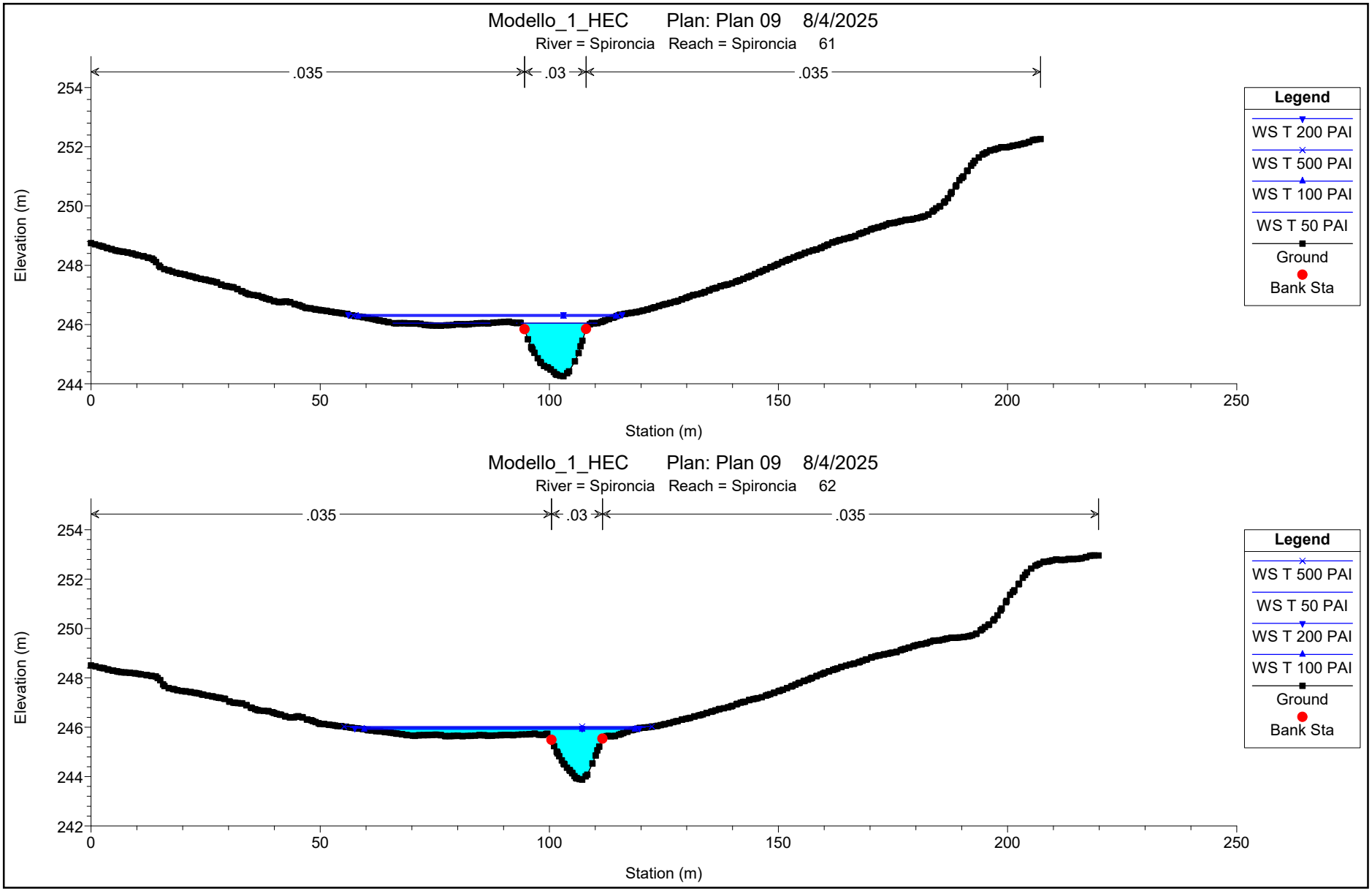

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 51
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 52
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

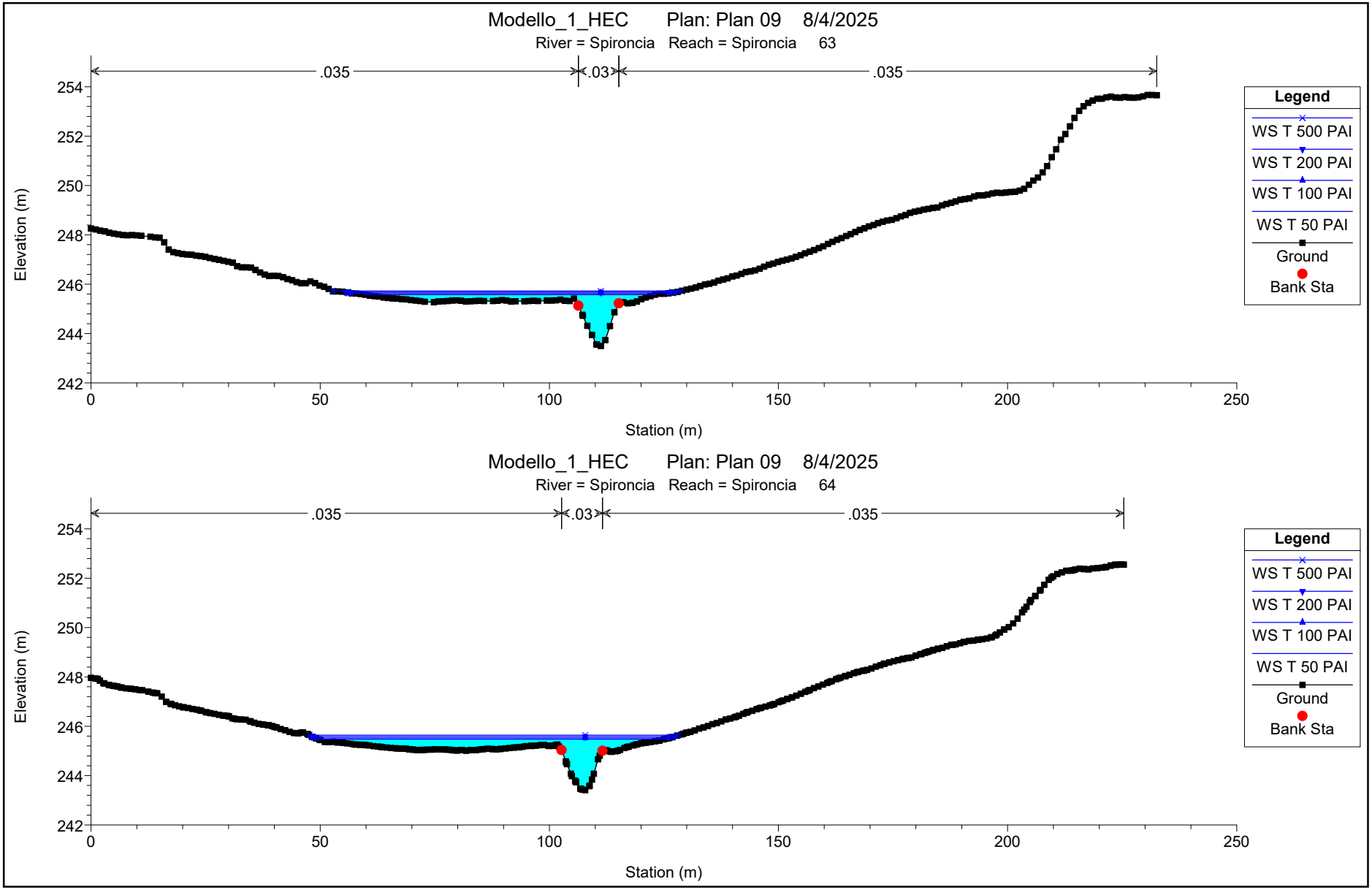

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 53
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 50 PAI
WS T 100 PAI
WS T 200 PAI
WS T 500 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 54
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

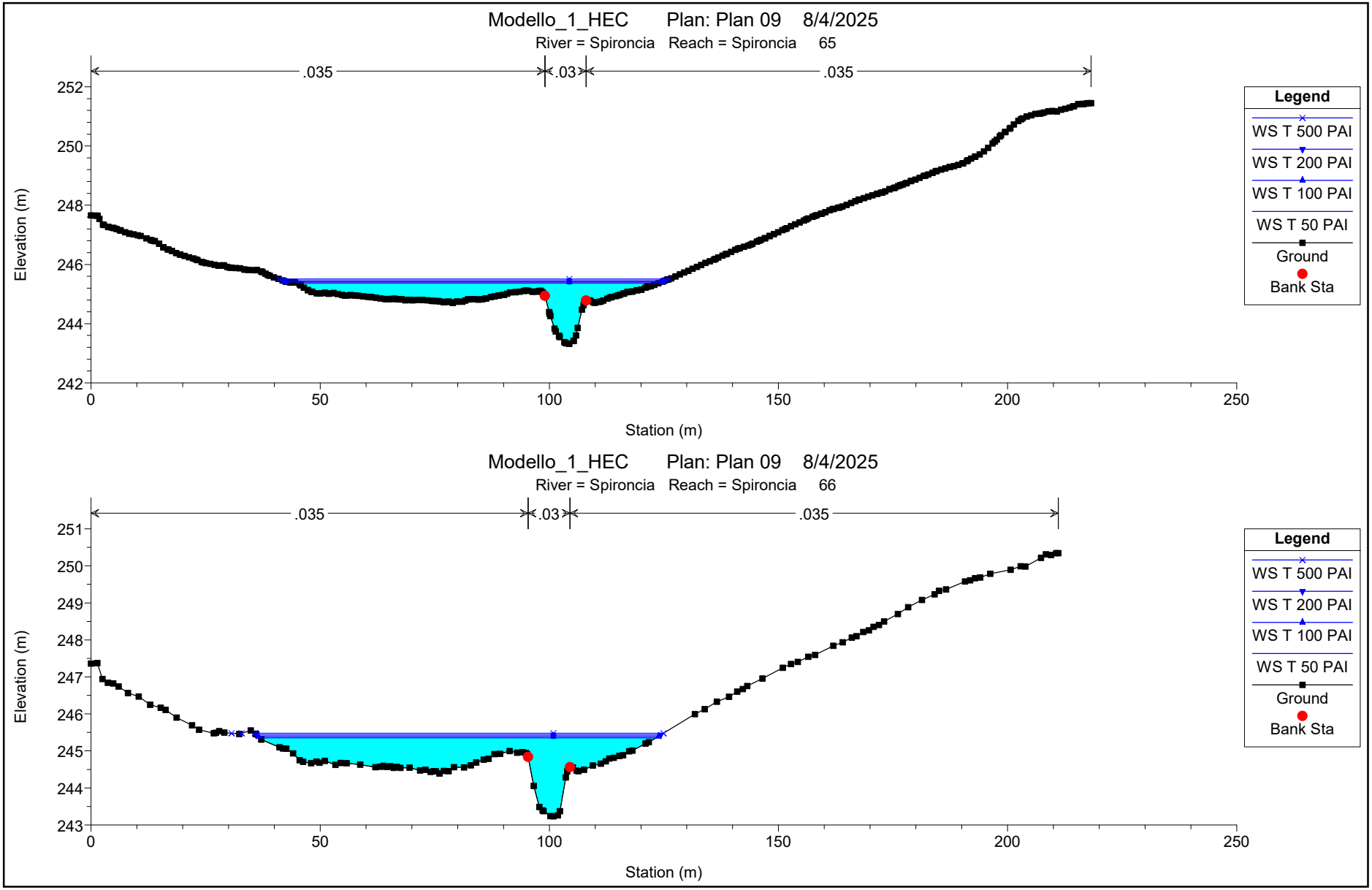

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 55
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 56
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

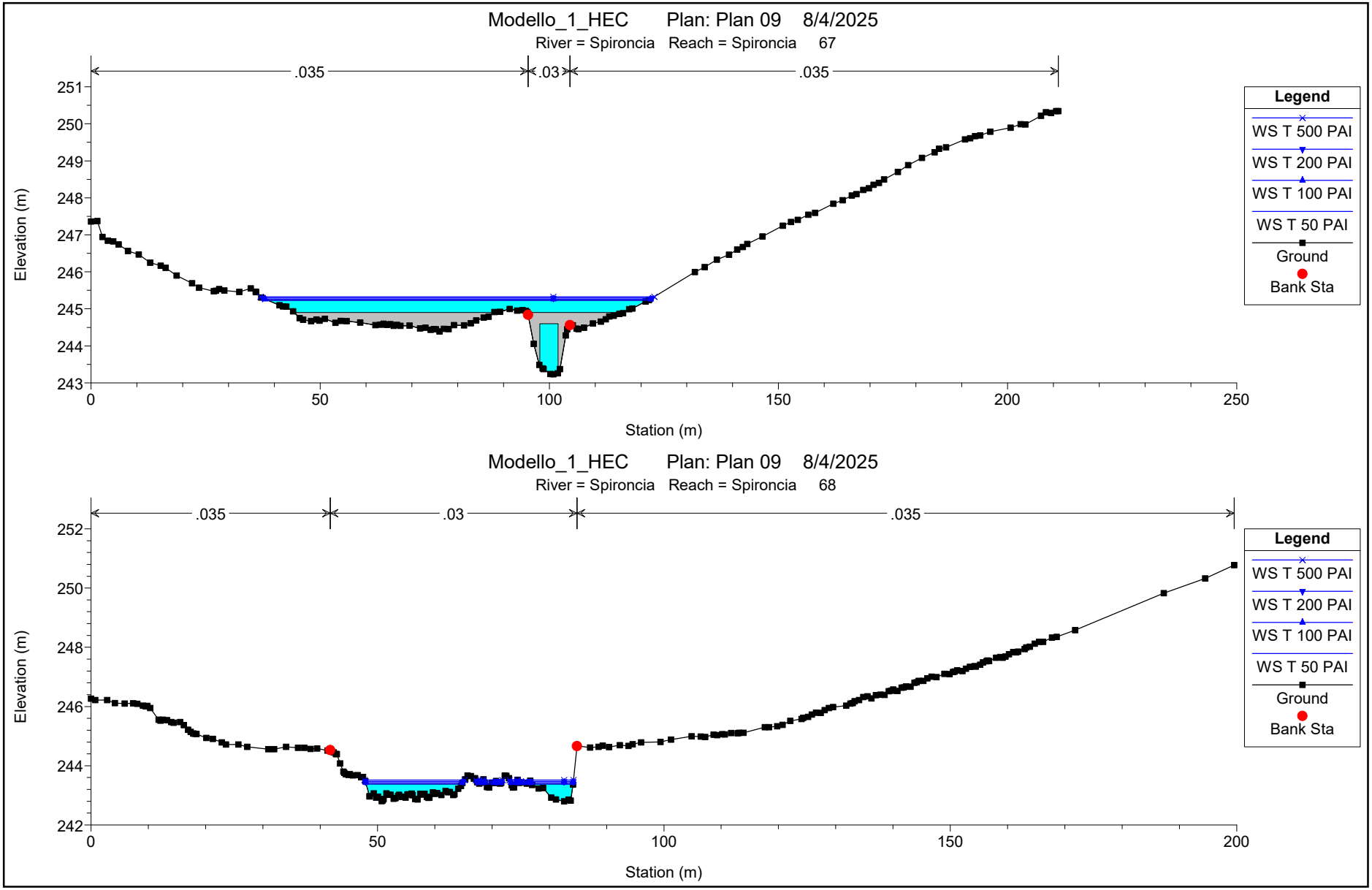

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 57
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 58
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

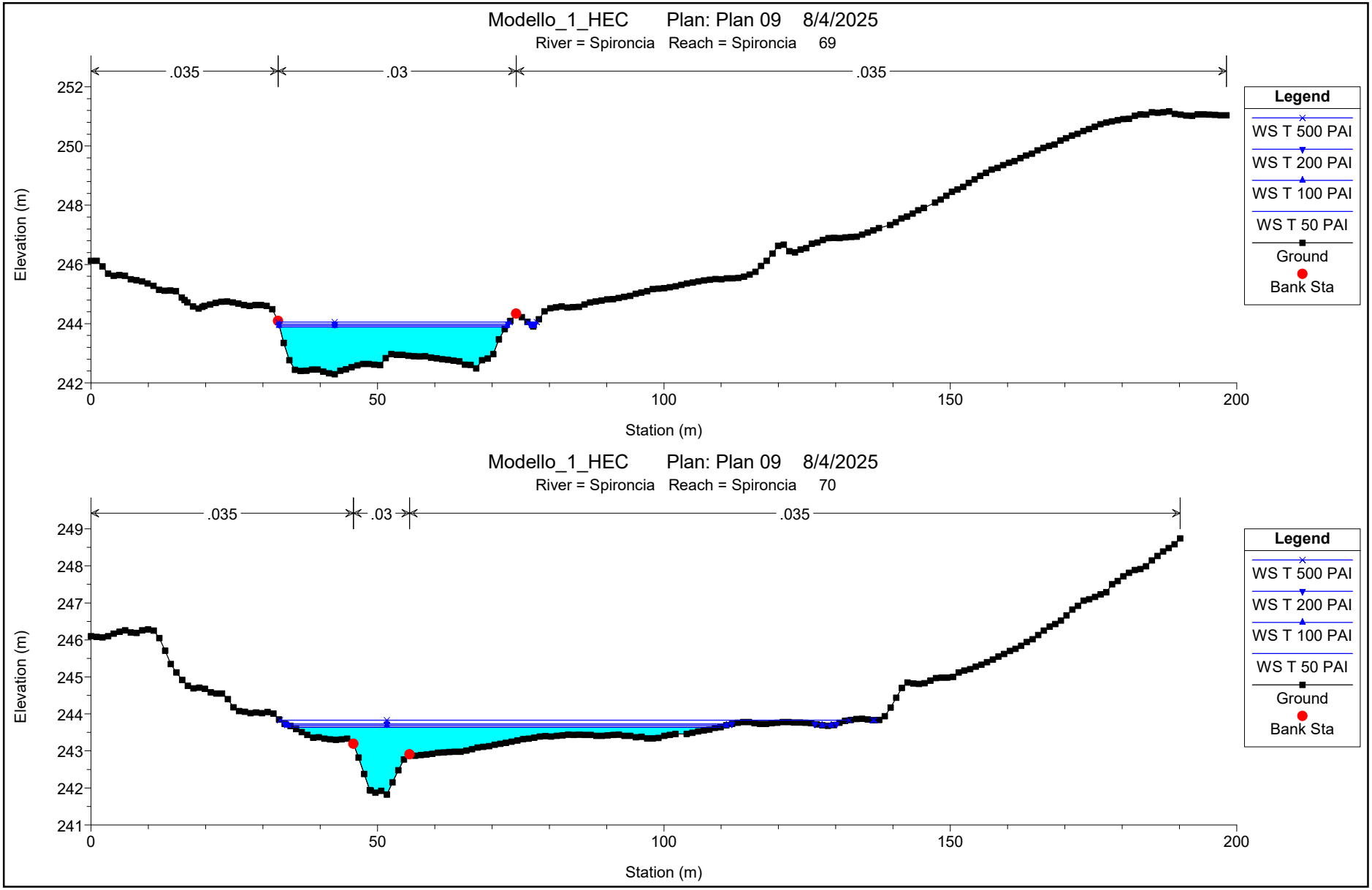

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 59
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 100 PAI
WS T 50 PAI
WS T 500 PAI
WS T 200 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 60
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 50 PAI
WS T 100 PAI
Ground
Bank Sta

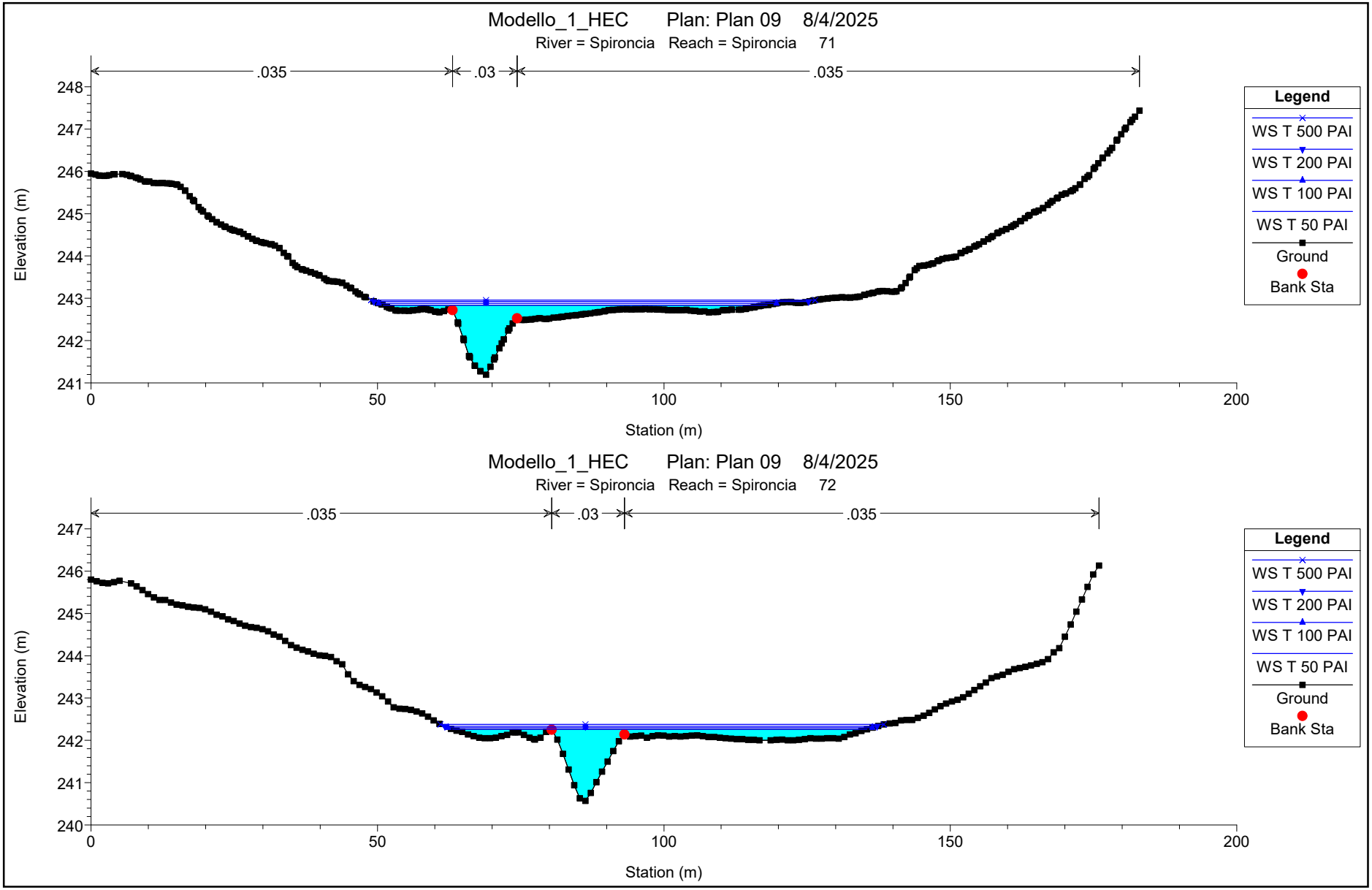

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 61
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 200 PAI
WS T 500 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 62
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 50 PAI
WS T 200 PAI
WS T 100 PAI
Ground
Bank Sta

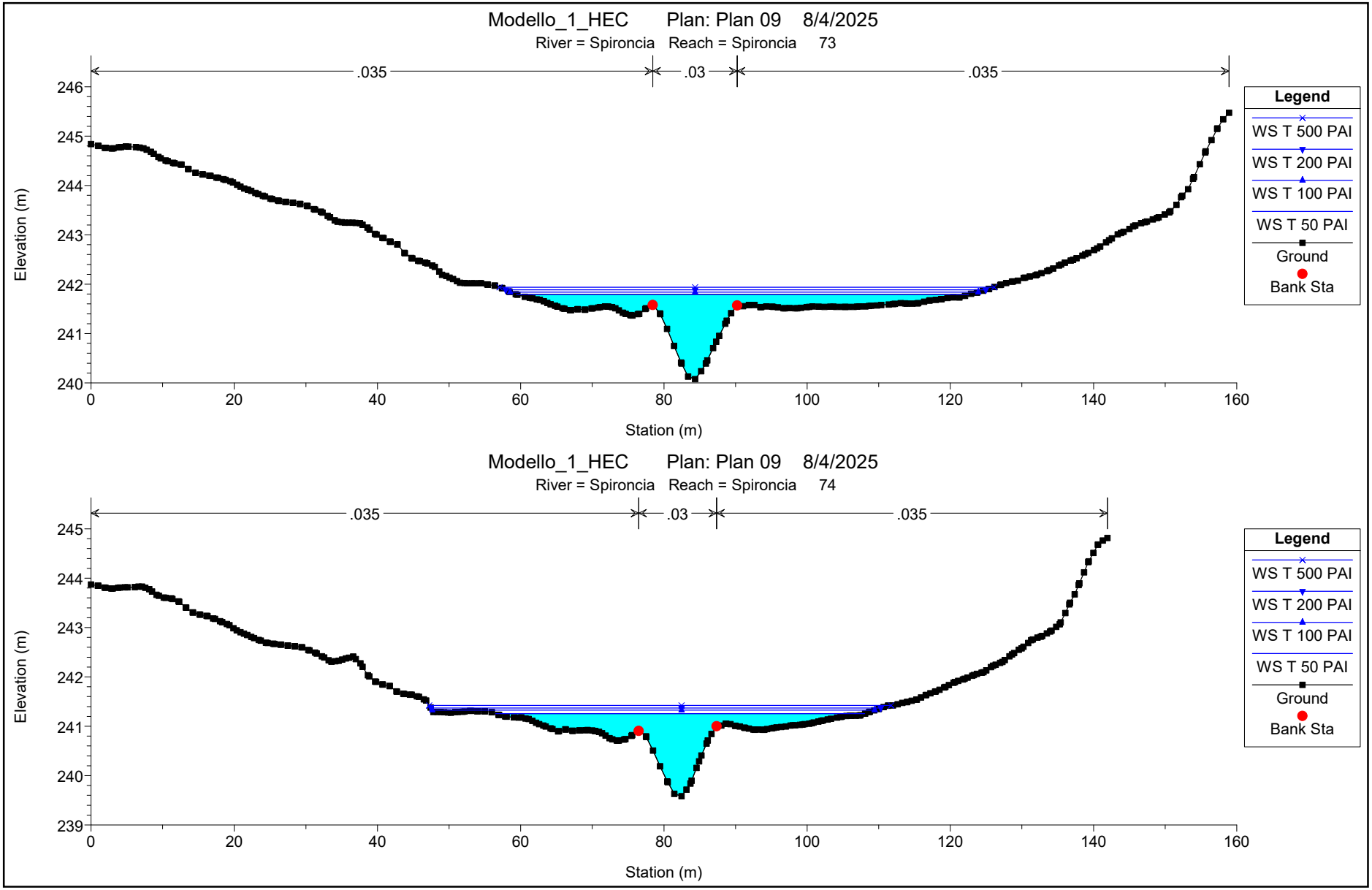

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 63
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 64
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

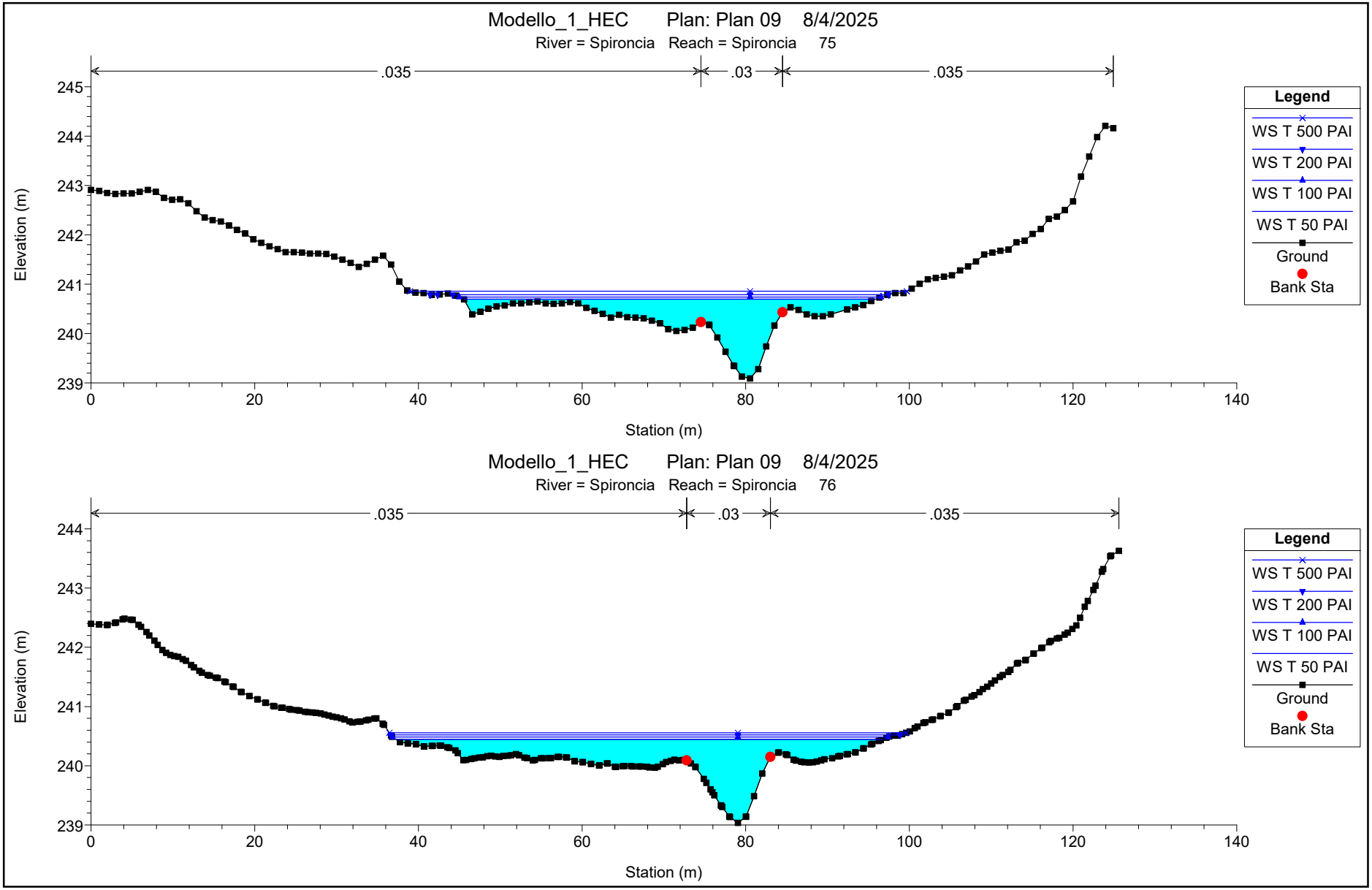

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 65
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 66
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

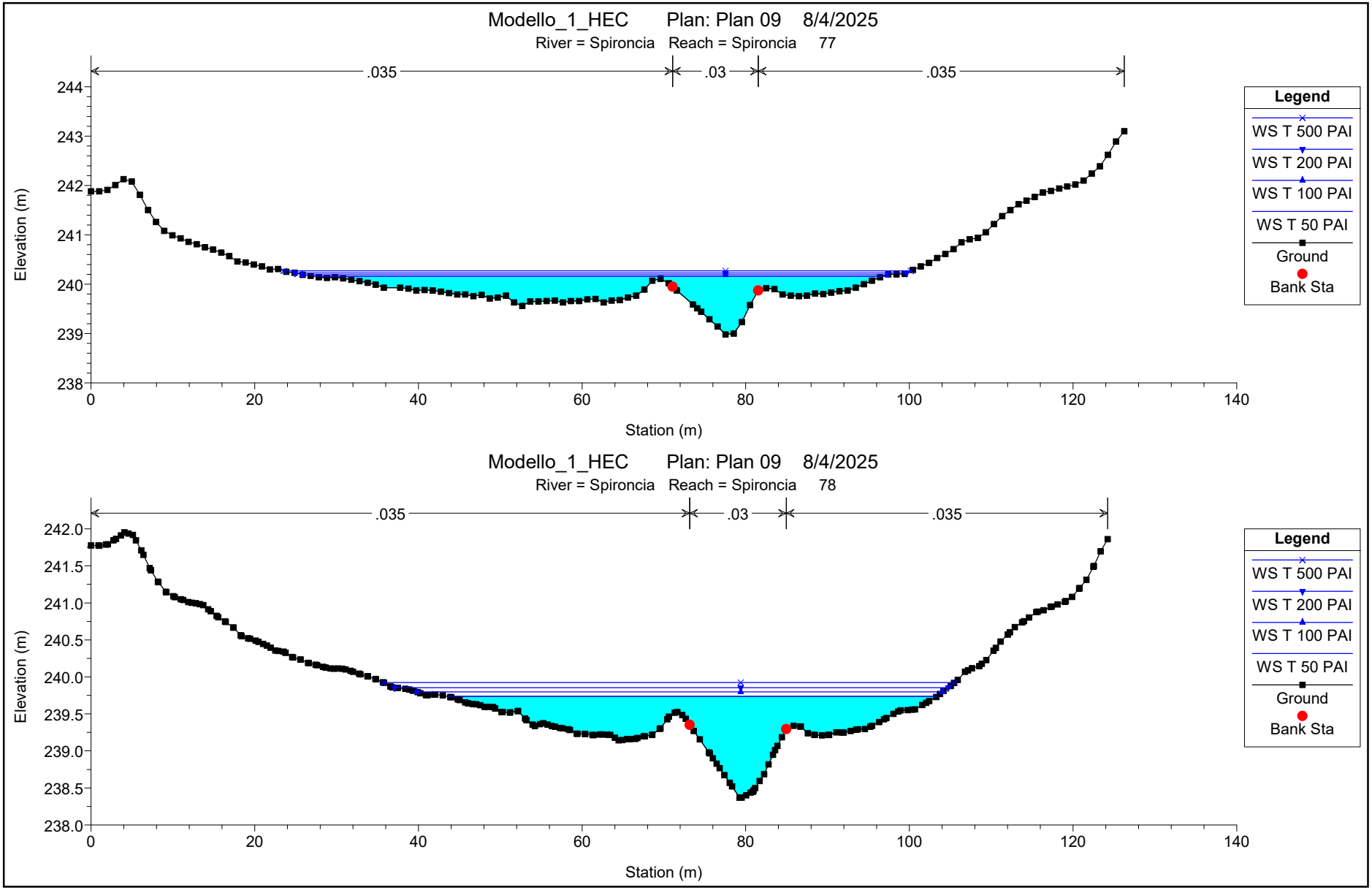

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 67
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 68
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

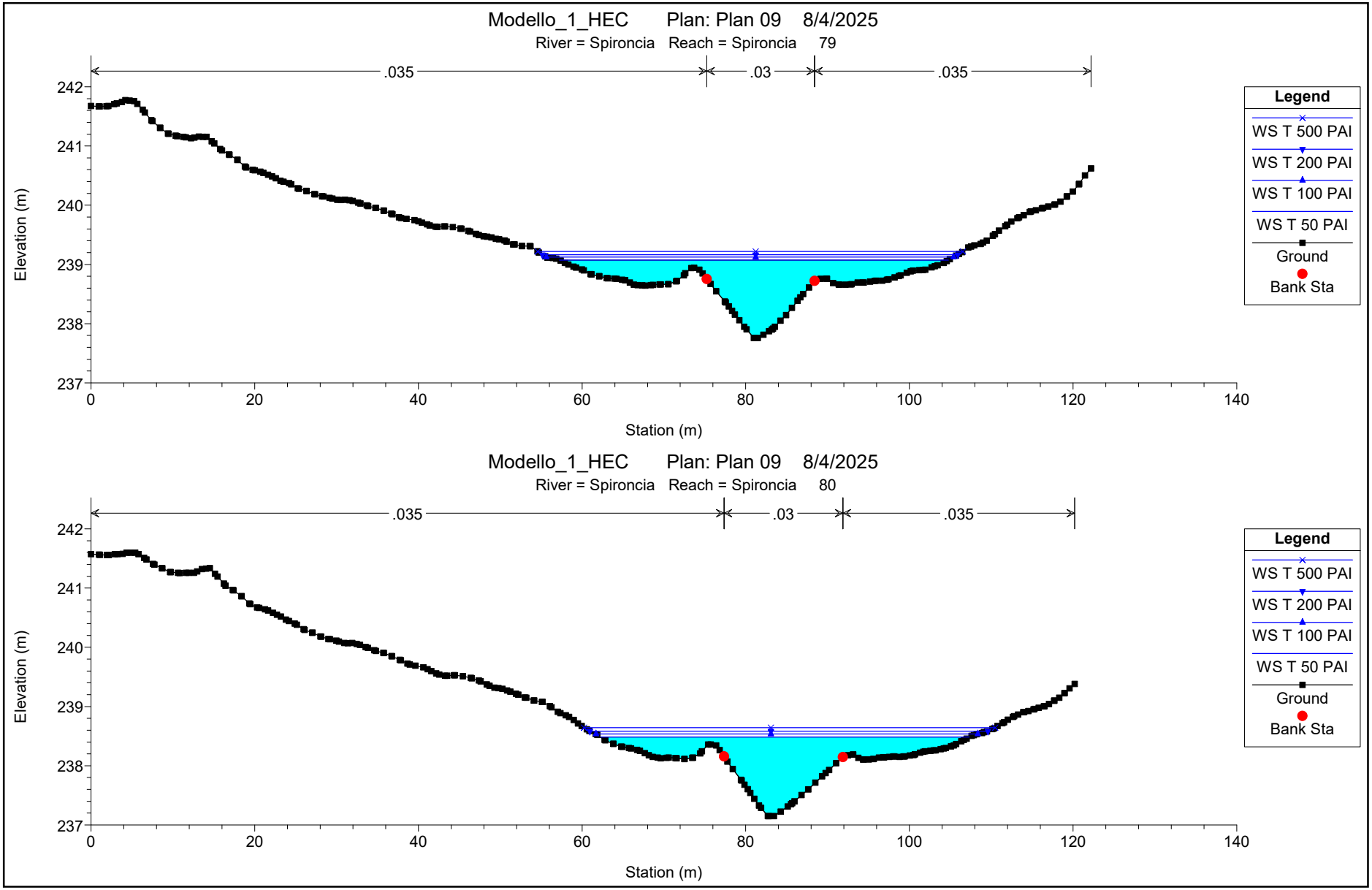

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 69
.035
.03
.035
Elevation (m)
252
250
248
246
244
242
0
50
100
150
200
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 70
.035
.03
.035
Elevation (m)
249
248
247
246
245
244
243
242
241
0
50
100
150
200
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

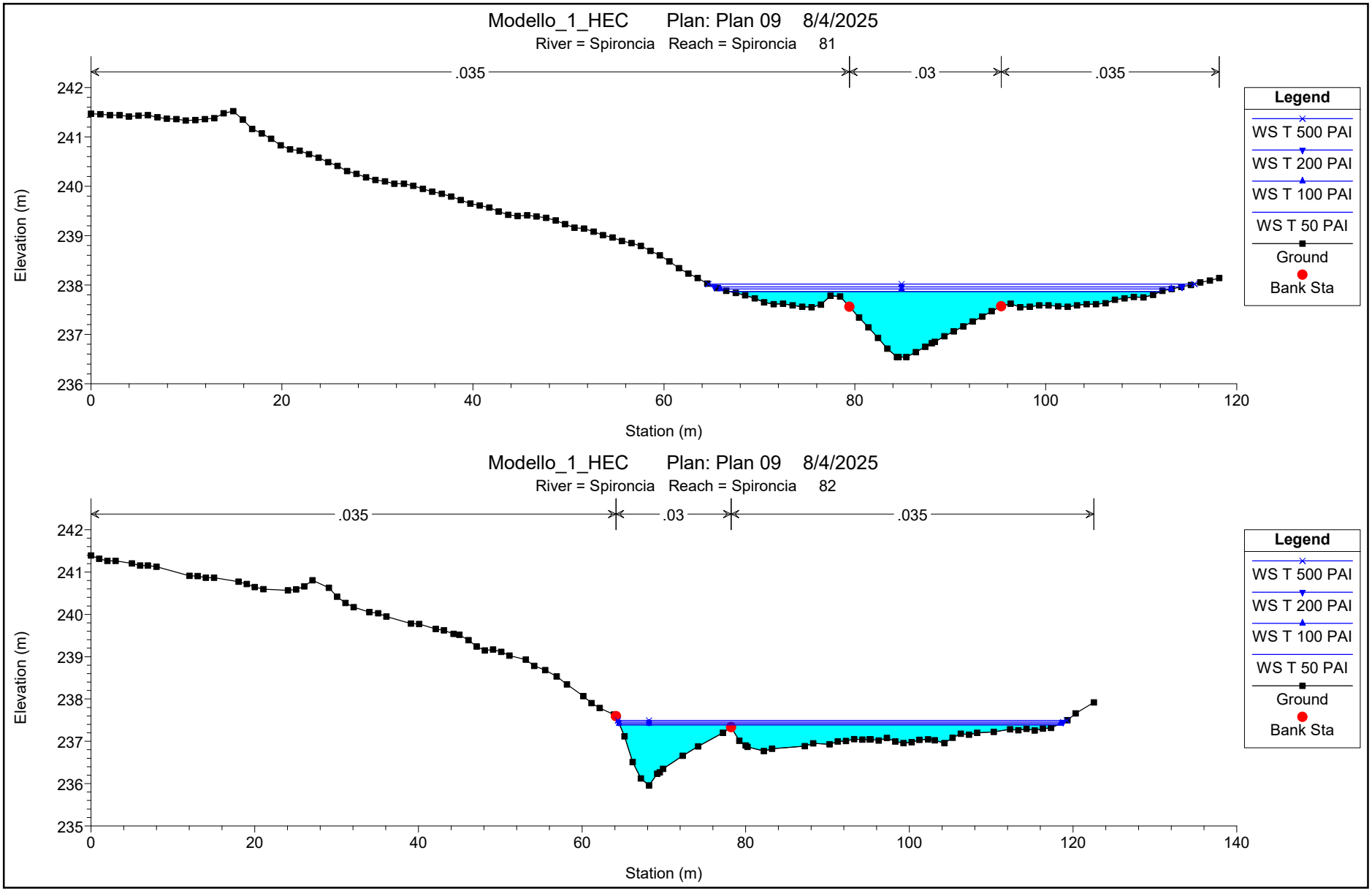

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 71
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 72
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

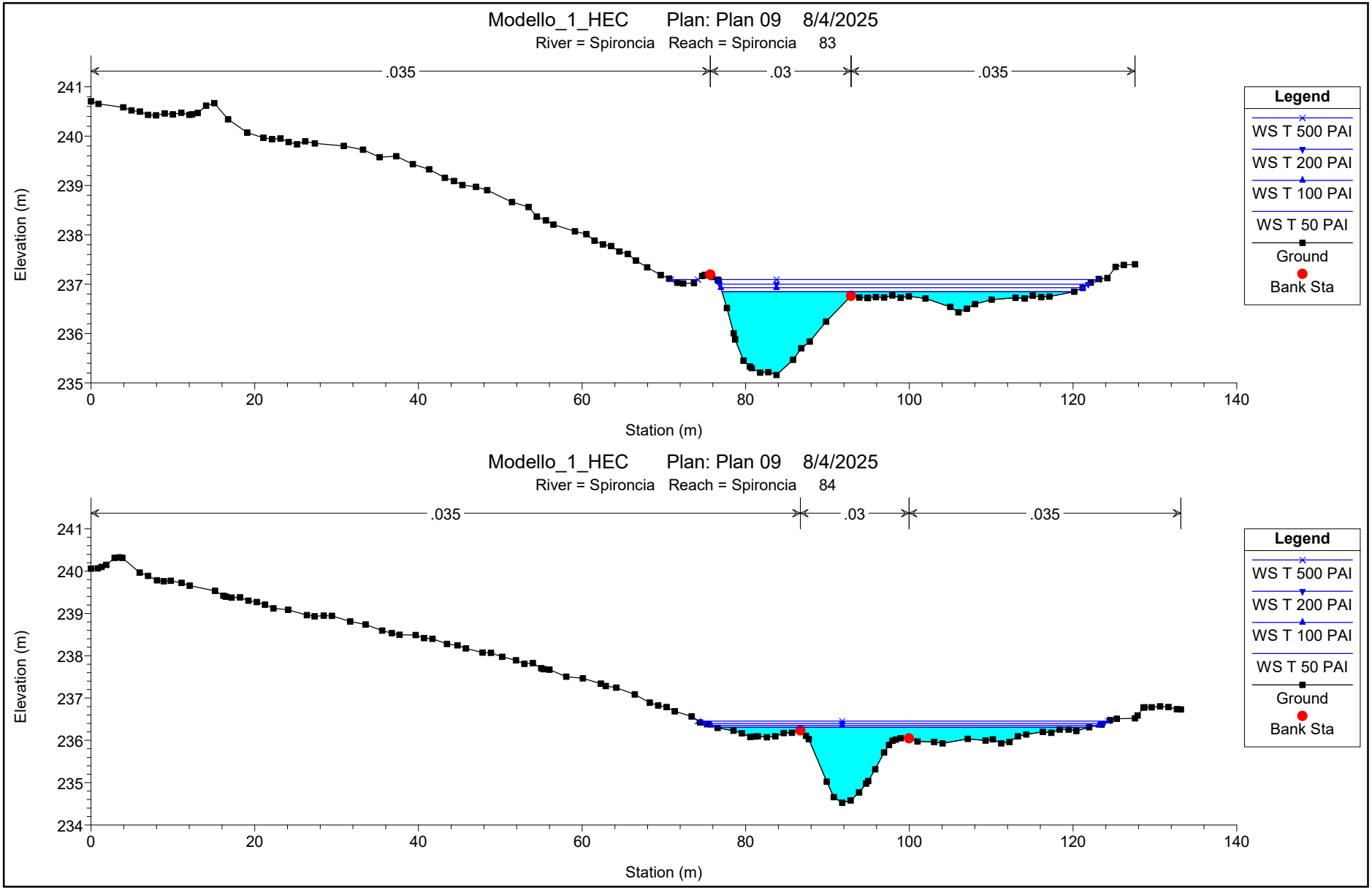

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 73
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 74
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

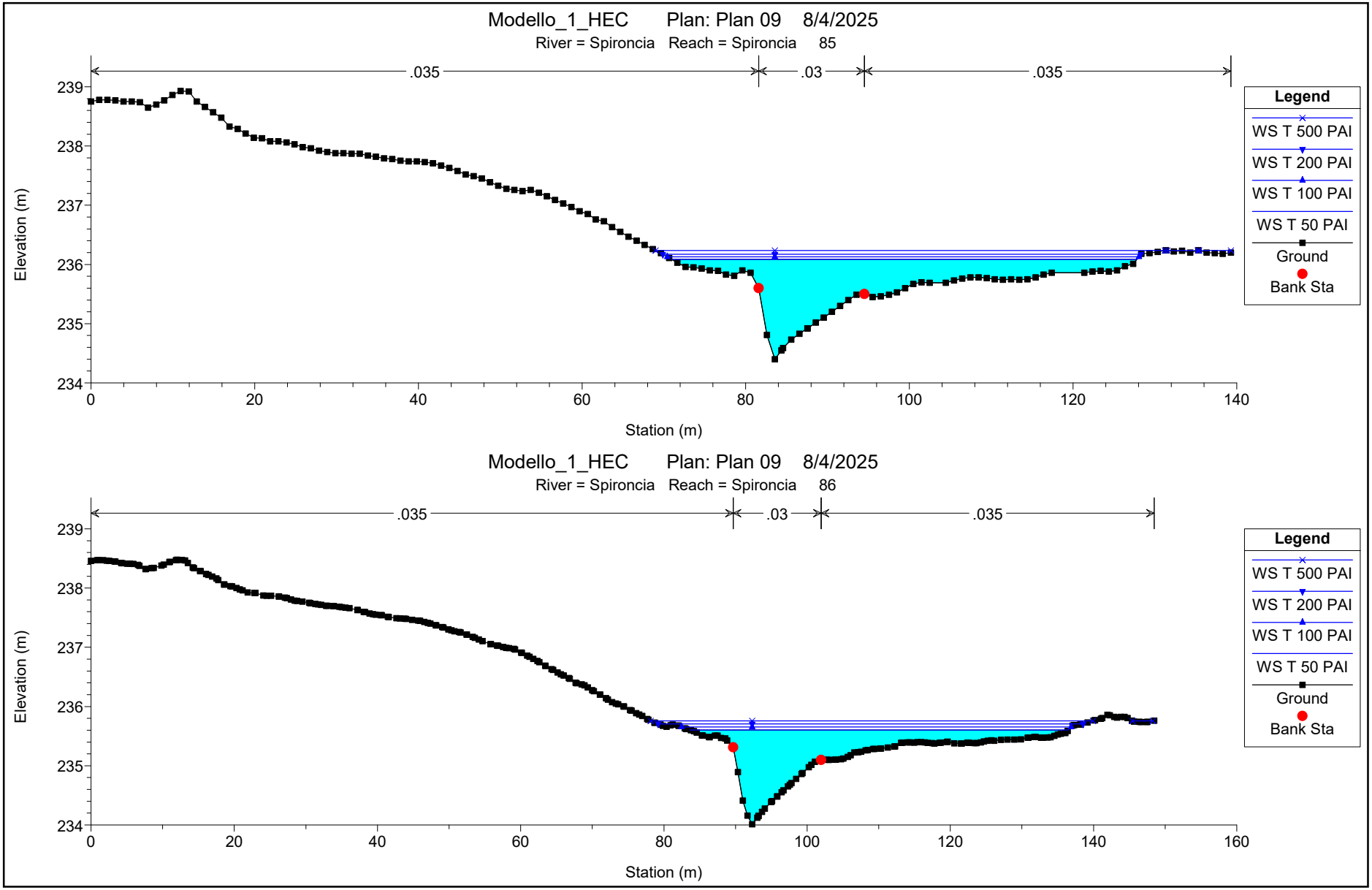

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 75
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 76
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

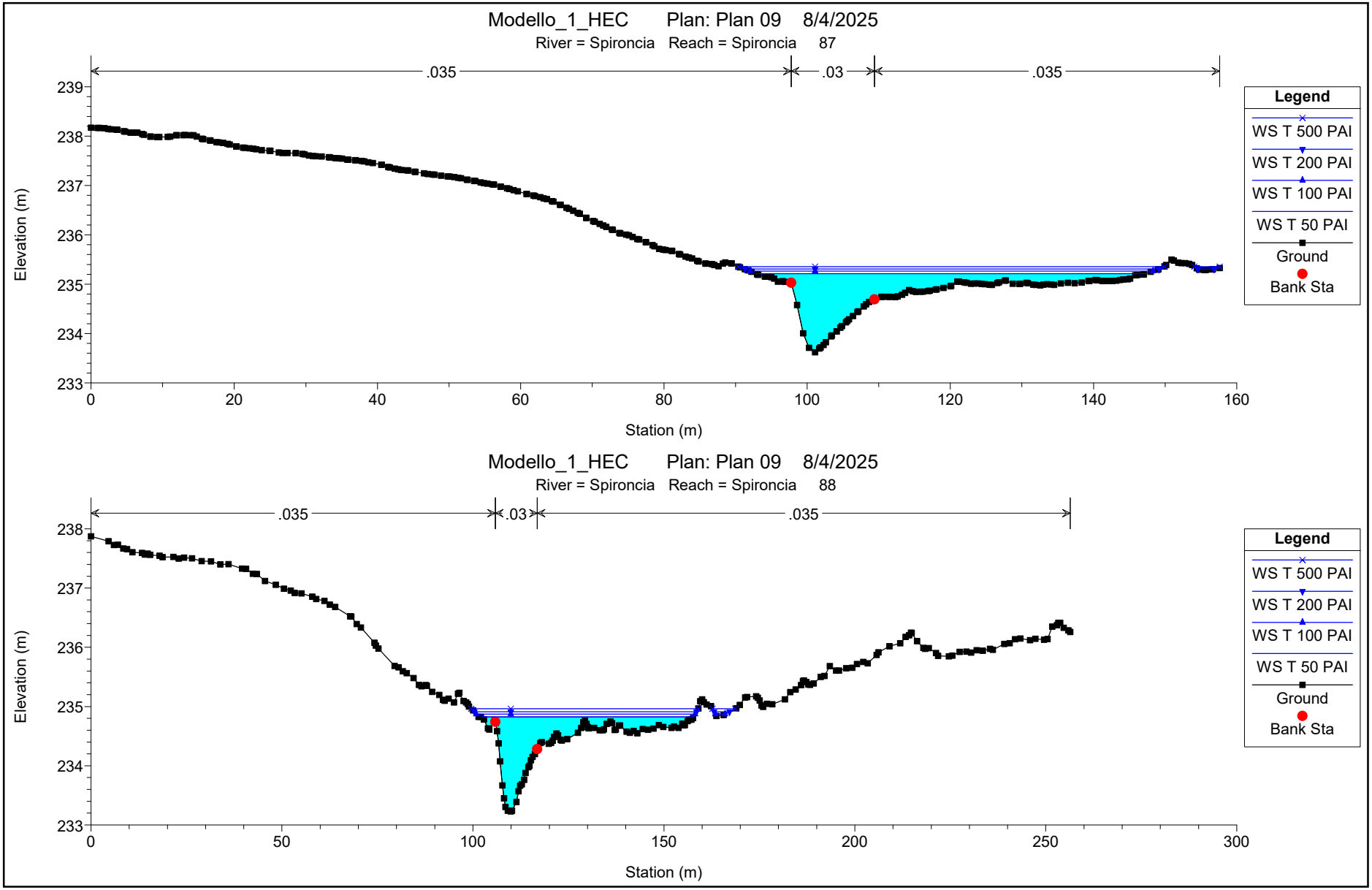

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 77
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 78
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

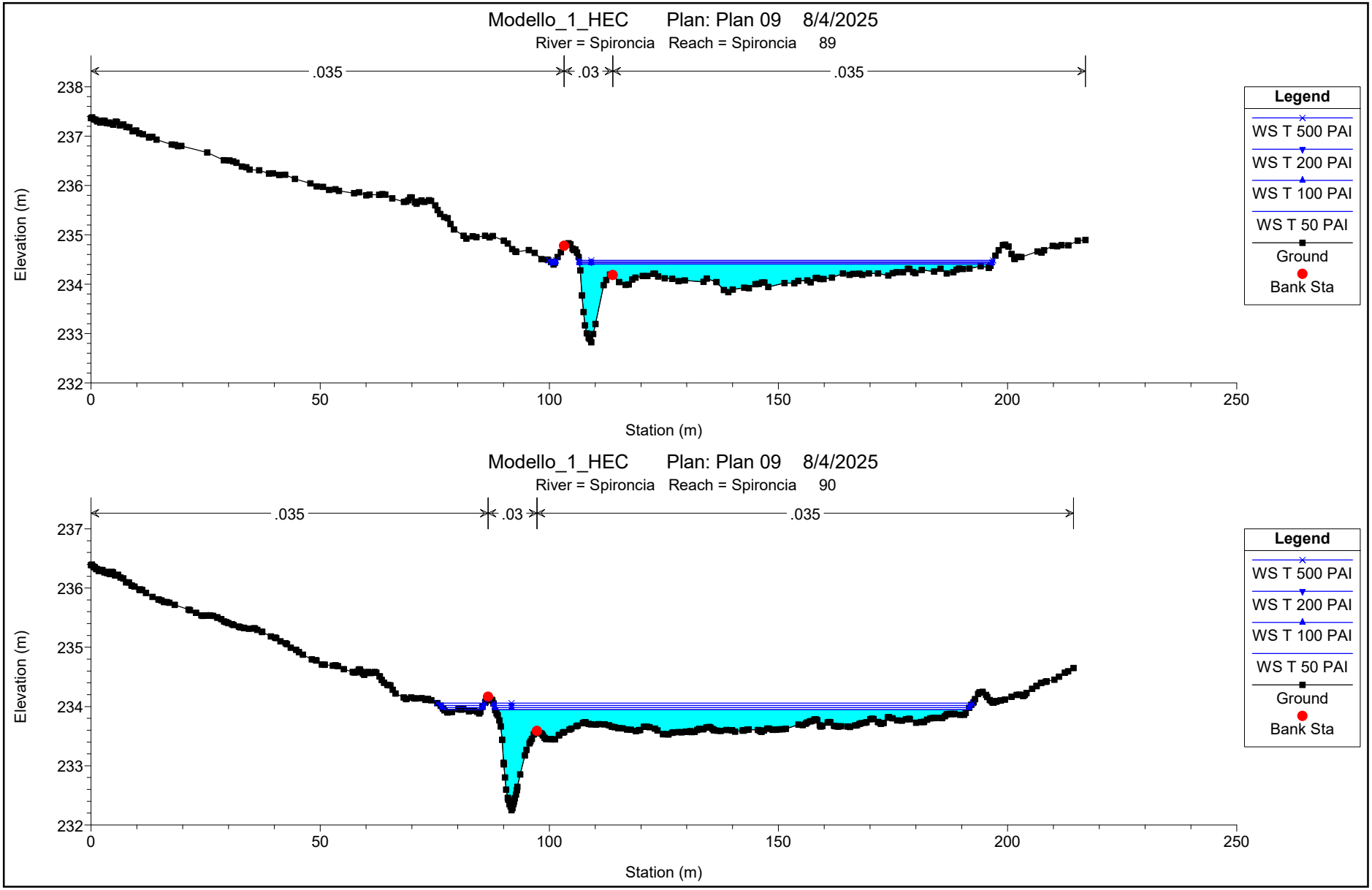

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 79
.035
.03
.035
Elevation (m)
242
241
240
239
238
237
0
20
40
60
80
100
120
140
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 80
.035
.03
.035
Elevation (m)
242
241
240
239
238
237
0
20
40
60
80
100
120
140
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

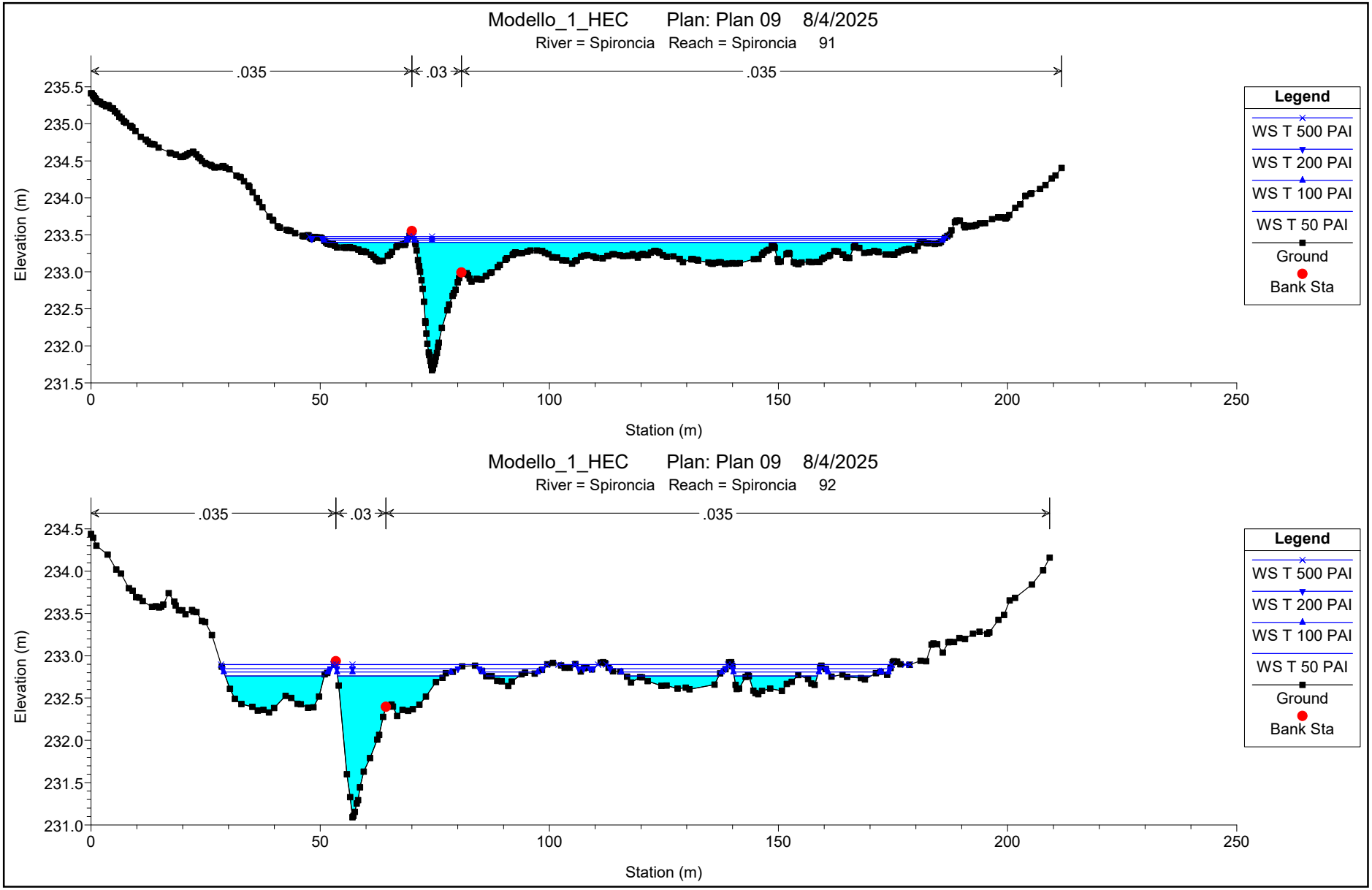

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 81
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 82
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

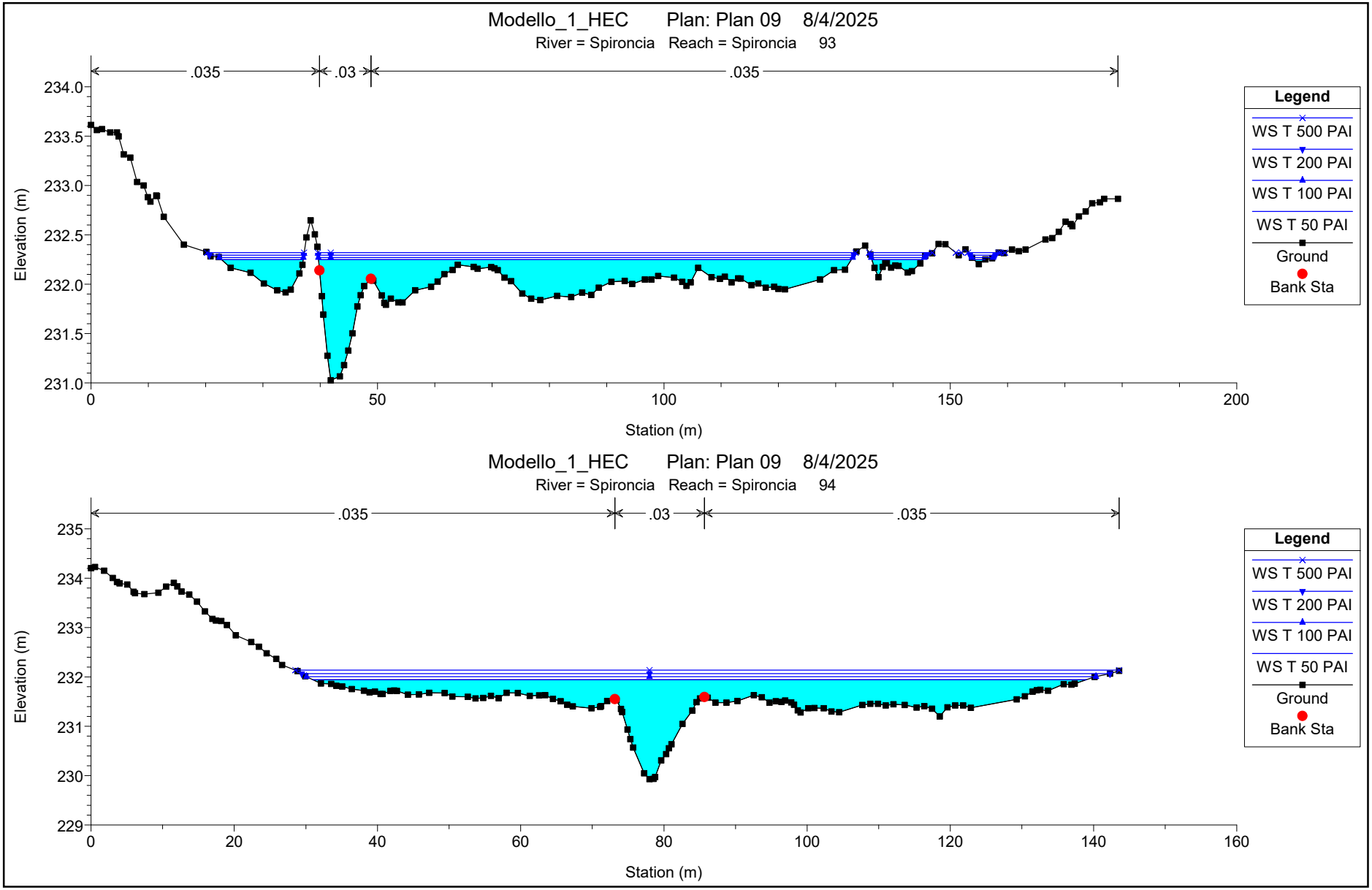

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 83
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 84
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

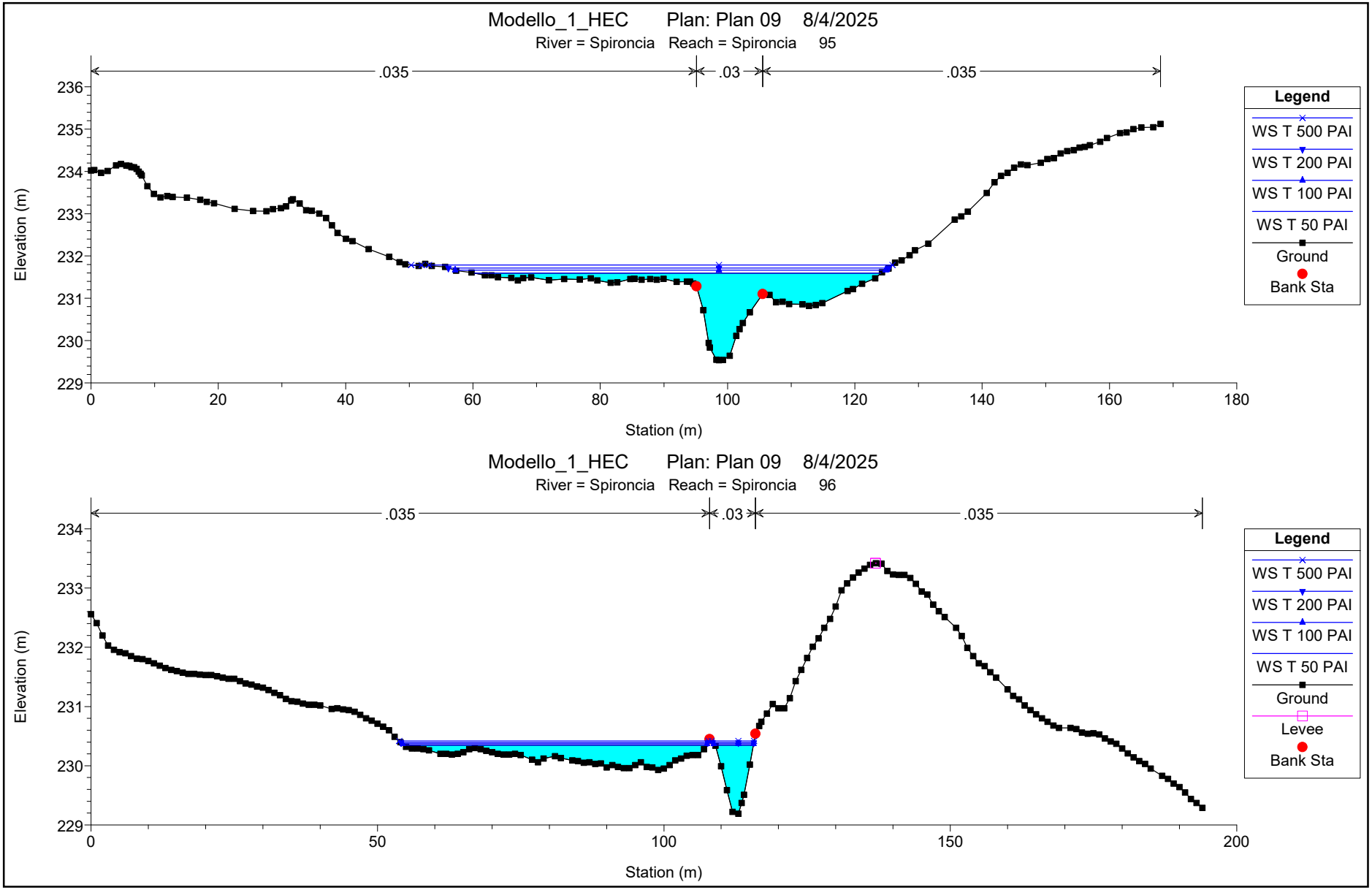

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 85
.035
.03
.035
Elevation (m)
239
238
237
236
235
234
0
20
40
60
80
100
120
140
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 86
.035
.03
.035
Elevation (m)
239
238
237
236
235
234
0
20
40
60
80
100
120
140
160
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

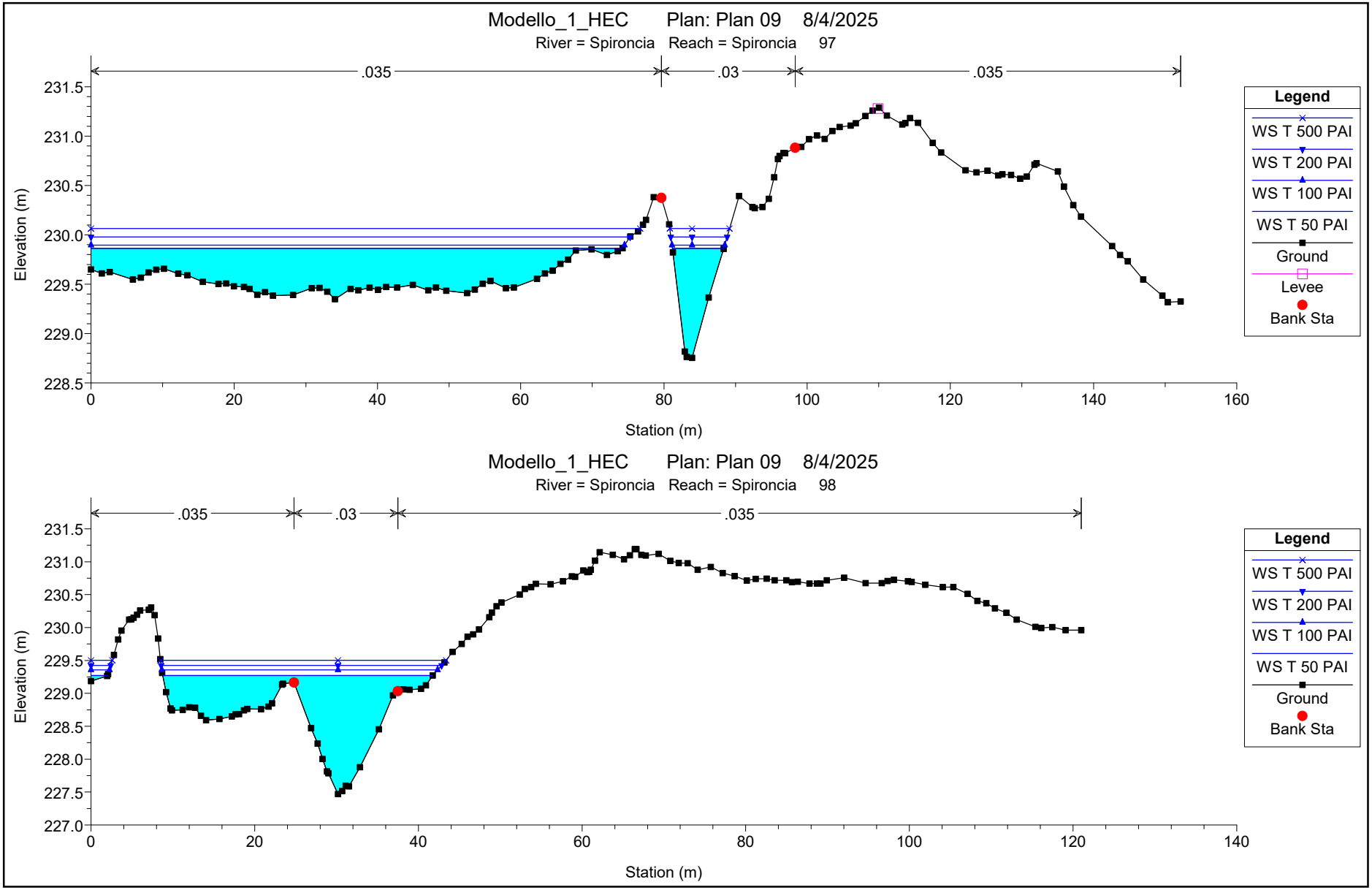

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 87
.035
.03
.035
Elevation (m)
239
238
237
236
235
234
233
0
20
40
60
80
100
120
140
160
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 88
.035
.03
.035
Elevation (m)
238
237
236
235
234
233
0
50
100
150
200
250
300
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

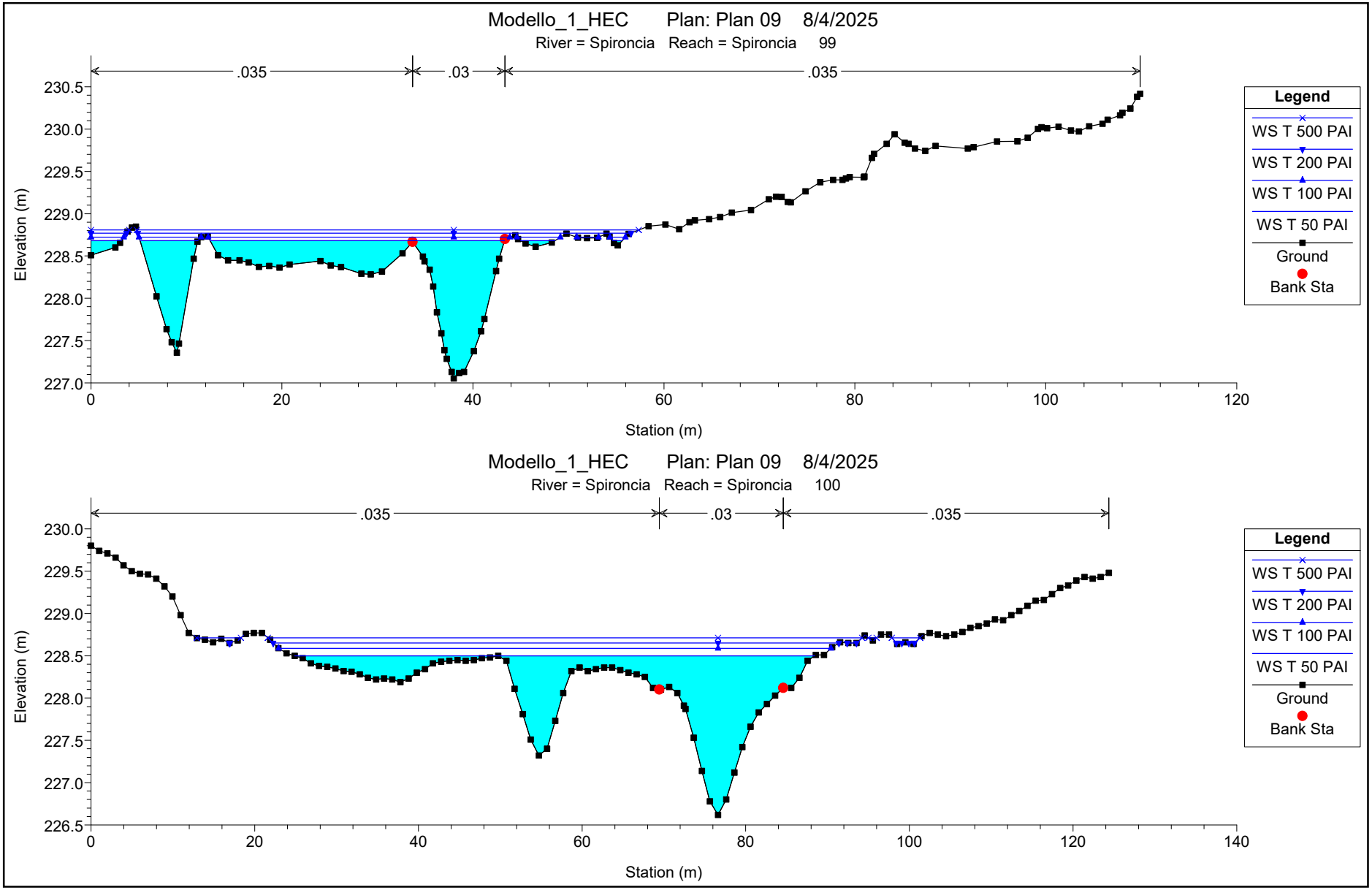

Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 89
.035
.03
.035
Elevation (m)
238
237
236
235
234
233
232
0
50
100
150
200
250
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 90
.035
.03
.035
Elevation (m)
237
236
235
234
233
232
0
50
100
150
200
250
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta


Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 91
.035
.03
.035
Elevation (m)
235.5
235.0
234.5
234.0
233.5
233.0
232.5
232.0
231.5
0
50
100
150
200
250
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 92
.035
.03
.035
Elevation (m)
234.5
234.0
233.5
233.0
232.5
232.0
231.5
231.0
0
50
100
150
200
250
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta


Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 93
.035
.03
.035
234.0
233.5
233.0
232.5
232.0
231.5
231.0
Elevation (m)
0
50
100
150
200
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 94
.035
.03
.035
235
234
233
232
231
230
229
Elevation (m)
0
20
40
60
80
100
120
140
160
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta


Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 95
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 96
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Levee
Bank Sta


Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 97
.035
.03
.035
Elevation (m)
231.5
231.0
230.5
230.0
229.5
229.0
228.5
0
20
40
60
80
100
120
140
160
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Levee
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 98
.035
.03
.035
Elevation (m)
231.5
231.0
230.5
230.0
229.5
229.0
228.5
228.0
227.5
227.0
0
20
40
60
80
100
120
140
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta


Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 99
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta
Modello_1_HEC Plan: Plan 09 8/4/2025
River = Spironcia Reach = Spironcia 100
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS T 500 PAI
WS T 200 PAI
WS T 100 PAI
WS T 50 PAI
Ground
Bank Sta

HEC-RAS Plan: 09 River: Spironcia Reach: Spironcia

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spironcia	3936.569 1	T 50 PAI	43.18	282.71	285.00	285.13	285.48	0.015017	3.86	17.56	39.73	1.07
Spironcia	3936.569 1	T 100 PAI	49.21	282.71	285.05	285.19	285.53	0.015013	3.95	19.43	39.93	1.08
Spironcia	3936.569 1	T 200 PAI	55.24	282.71	285.09	285.24	285.59	0.015011	4.04	21.18	40.11	1.08
Spironcia	3936.569 1	T 500 PAI	63.19	282.71	285.14	285.28	285.66	0.015007	4.14	23.35	40.34	1.09
Spironcia	3890.48 2	T 50 PAI	43.18	281.92	283.82	284.04	284.53	0.028373	4.70	13.29	28.37	1.44
Spironcia	3890.48 2	T 100 PAI	49.21	281.92	283.87	284.08	284.60	0.027447	4.77	14.80	29.38	1.43
Spironcia	3890.48 2	T 200 PAI	55.24	281.92	283.92	284.14	284.66	0.026699	4.84	16.24	30.17	1.42
Spironcia	3890.48 2	T 500 PAI	63.19	281.92	283.98	284.21	284.74	0.025819	4.92	18.07	30.76	1.41
Spironcia	3844.4 3	T 50 PAI	43.18	281.13	282.72	282.86	283.21	0.025946	4.01	14.76	30.33	1.34
Spironcia	3844.4 3	T 100 PAI	49.21	281.13	282.76	282.91	283.30	0.026335	4.16	15.98	30.72	1.36
Spironcia	3844.4 3	T 200 PAI	55.24	281.13	282.80	282.96	283.38	0.026717	4.30	17.14	31.42	1.38
Spironcia	3844.4 3	T 500 PAI	63.19	281.13	282.85	283.02	283.48	0.027189	4.47	18.67	31.95	1.41
Spironcia	3798.31 4	T 50 PAI	43.18	280.34	281.58	281.68	282.00	0.025787	3.55	15.48	32.65	1.29
Spironcia	3798.31 4	T 100 PAI	49.21	280.34	281.63	281.73	282.07	0.025655	3.55	16.96	33.40	1.29
Spironcia	3798.31 4	T 200 PAI	55.24	280.34	281.67	281.78	282.14	0.025572	3.55	18.32	33.88	1.30
Spironcia	3798.31 4	T 500 PAI	63.19	280.34	281.72	281.84	282.23	0.025388	3.64	19.99	34.41	1.30
Spironcia	3752.228 5	T 50 PAI	43.18	279.55	280.43	280.52	280.80	0.025390	3.00	15.86	33.75	1.20
Spironcia	3752.228 5	T 100 PAI	49.21	279.55	280.47	280.57	280.88	0.025458	3.08	17.35	34.76	1.20
Spironcia	3752.228 5	T 200 PAI	55.24	279.55	280.51	280.61	280.95	0.025452	3.14	18.81	35.71	1.19
Spironcia	3752.228 5	T 500 PAI	63.19	279.55	280.56	280.67	281.04	0.025774	3.18	20.45	36.25	1.20
Spironcia	3702.33 6	T 50 PAI	43.18	278.01	279.28	279.35	279.68	0.020216	3.25	15.55	27.41	1.19
Spironcia	3702.33 6	T 100 PAI	49.21	278.01	279.33	279.41	279.76	0.019840	3.37	17.10	28.37	1.19
Spironcia	3702.33 6	T 200 PAI	55.24	278.01	279.38	279.47	279.84	0.019522	3.49	18.61	29.27	1.19
Spironcia	3702.33 6	T 500 PAI	63.19	278.01	279.45	279.54	279.94	0.019121	3.62	20.52	30.17	1.19
Spironcia	3652.44 7	T 50 PAI	43.18	276.47	277.94	278.12	278.56	0.023750	4.31	13.06	21.67	1.40
Spironcia	3652.44 7	T 100 PAI	49.21	276.47	278.01	278.20	278.66	0.023404	4.46	14.45	22.74	1.40
Spironcia	3652.44 7	T 200 PAI	55.24	276.47	278.06	278.27	278.76	0.023172	4.60	15.79	23.73	1.41
Spironcia	3652.44 7	T 500 PAI	63.19	276.47	278.13	278.36	278.87	0.022882	4.77	17.53	24.96	1.41
Spironcia	3602.54 8	T 50 PAI	43.18	274.94	276.61	276.86	277.41	0.021636	4.83	12.45	20.35	1.42

HEC-RAS Plan: 09 River: Spironcia Reach: Spironcia (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spironcia	3602.54 8	T 100 PAI	49.21	274.94	276.68	276.94	277.52	0.021685	5.00	13.72	21.00	1.43
Spironcia	3602.54 8	T 200 PAI	55.24	274.94	276.73	277.01	277.62	0.021682	5.15	14.95	21.61	1.44
Spironcia	3602.54 8	T 500 PAI	63.19	274.94	276.81	277.09	277.74	0.021680	5.34	16.54	22.43	1.46
Spironcia	3552.65 9	T 50 PAI	43.18	273.40	275.19	275.52	276.28	0.022587	5.33	11.56	21.29	1.49
Spironcia	3552.65 9	T 100 PAI	49.21	273.40	275.25	275.61	276.38	0.022725	5.51	12.91	22.40	1.51
Spironcia	3552.65 9	T 200 PAI	55.24	273.40	275.31	275.67	276.48	0.022888	5.68	14.19	23.41	1.53
Spironcia	3552.65 9	T 500 PAI	63.19	273.40	275.37	275.76	276.60	0.023120	5.89	15.82	24.63	1.55
Spironcia	3505.37 10	T 50 PAI	43.18	272.41	274.17	274.49	275.21	0.022200	5.24	12.11	23.74	1.48
Spironcia	3505.37 10	T 100 PAI	49.21	272.41	274.22	274.56	275.30	0.022382	5.42	13.51	24.87	1.50
Spironcia	3505.37 10	T 200 PAI	55.24	272.41	274.28	274.62	275.38	0.022543	5.58	14.86	25.92	1.51
Spironcia	3505.37 10	T 500 PAI	63.19	272.41	274.34	274.71	275.49	0.022729	5.77	16.58	27.18	1.53
Spironcia	3458.08 11	T 50 PAI	43.18	271.43	273.13	273.44	274.13	0.022830	5.18	12.59	26.70	1.49
Spironcia	3458.08 11	T 100 PAI	49.21	271.43	273.19	273.49	274.21	0.023017	5.35	14.06	27.93	1.50
Spironcia	3458.08 11	T 200 PAI	55.24	271.43	273.24	273.55	274.29	0.023202	5.51	15.46	28.98	1.52
Spironcia	3458.08 11	T 500 PAI	63.19	271.43	273.30	273.65	274.39	0.023418	5.70	17.22	30.26	1.54
Spironcia	3410.8 12	T 50 PAI	43.18	270.44	272.09	272.36	273.01	0.023629	5.07	13.30	31.06	1.49
Spironcia	3410.8 12	T 100 PAI	49.21	270.44	272.14	272.42	273.08	0.023849	5.23	14.83	32.33	1.51
Spironcia	3410.8 12	T 200 PAI	55.24	270.44	272.18	272.46	273.15	0.024033	5.38	16.31	33.51	1.52
Spironcia	3410.8 12	T 500 PAI	63.19	270.44	272.23	272.51	273.23	0.024267	5.55	18.12	34.60	1.54
Spironcia	3363.51 13	T 50 PAI	43.18	269.45	271.00	271.24	271.82	0.025574	4.91	13.75	33.37	1.51
Spironcia	3363.51 13	T 100 PAI	49.21	269.45	271.05	271.29	271.88	0.025547	5.04	15.31	34.60	1.52
Spironcia	3363.51 13	T 200 PAI	55.24	269.45	271.09	271.34	271.94	0.025579	5.18	16.84	35.55	1.53
Spironcia	3363.51 13	T 500 PAI	63.19	269.45	271.14	271.40	272.02	0.025588	5.32	18.65	36.32	1.54
Spironcia	3319.93 14	T 50 PAI	43.18	269.04	270.88	270.89	271.16	0.006368	3.01	23.01	39.31	0.82
Spironcia	3319.93 14	T 100 PAI	49.21	269.04	270.89	270.93	271.24	0.007846	3.36	23.47	39.49	0.91
Spironcia	3319.93 14	T 200 PAI	55.24	269.04	270.98	270.98	271.30	0.006910	3.29	27.08	42.06	0.86
Spironcia	3319.93 14	T 500 PAI	63.19	269.04	271.07	271.07	271.39	0.006606	3.34	30.88	45.80	0.85
Spironcia	3276.35 15	T 50 PAI	43.18	268.63	270.40	270.51	270.82	0.008843	3.54	19.60	38.06	0.98
Spironcia	3276.35 15	T 100 PAI	49.21	268.63	270.48	270.58	270.89	0.008222	3.56	22.95	42.67	0.96

HEC-RAS Plan: 09 River: Spironcia Reach: Spironcia (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spironcia	3276.35 15	T 200 PAI	55.24	268.63	270.52	270.65	270.95	0.008714	3.73	24.63	43.60	0.99
Spironcia	3276.35 15	T 500 PAI	63.19	268.63	270.57	270.72	271.04	0.009151	3.91	26.91	44.88	1.02
Spironcia	3232.77 16	T 50 PAI	43.18	268.22	269.89	270.00	270.39	0.010621	3.77	17.50	33.69	1.08
Spironcia	3232.77 16	T 100 PAI	49.21	268.22	269.94	270.02	270.47	0.010715	3.90	19.41	34.60	1.10
Spironcia	3232.77 16	T 200 PAI	55.24	268.22	270.00	270.20	270.53	0.010447	3.97	21.54	37.30	1.09
Spironcia	3232.77 16	T 500 PAI	63.19	268.22	270.11	270.26	270.62	0.009628	4.02	26.31	46.00	1.06
Spironcia	3189.187 17	T 50 PAI	43.18	267.81	269.39	269.54	269.91	0.011652	3.80	17.05	34.70	1.13
Spironcia	3189.187 17	T 100 PAI	49.21	267.81	269.44	269.61	269.98	0.011699	3.93	18.98	36.63	1.14
Spironcia	3189.187 17	T 200 PAI	55.24	267.81	269.51	269.73	270.05	0.011443	4.02	21.43	40.17	1.14
Spironcia	3189.187 17	T 500 PAI	63.19	267.81	269.57	269.76	270.15	0.011798	4.22	24.14	45.29	1.16
Spironcia	3147.21 18	T 50 PAI	43.18	266.82	268.34	268.60	269.24	0.019804	4.69	13.00	29.97	1.45
Spironcia	3147.21 18	T 100 PAI	49.21	266.82	268.40	268.77	269.31	0.019662	4.83	14.64	31.63	1.46
Spironcia	3147.21 18	T 200 PAI	55.24	266.82	268.45	268.81	269.39	0.019555	4.97	16.46	34.71	1.47
Spironcia	3147.21 18	T 500 PAI	63.19	266.82	268.50	268.85	269.48	0.019808	5.15	18.35	35.80	1.49
Spironcia	3105.24 19	T 50 PAI	43.18	265.83	267.40	267.71	268.39	0.020097	4.75	12.31	30.57	1.46
Spironcia	3105.24 19	T 100 PAI	49.21	265.83	267.46	267.85	268.47	0.020078	4.90	13.99	31.64	1.47
Spironcia	3105.24 19	T 200 PAI	55.24	265.83	267.50	267.89	268.55	0.020267	5.06	15.50	32.42	1.49
Spironcia	3105.24 19	T 500 PAI	63.19	265.83	267.57	267.92	268.64	0.019943	5.21	17.81	36.59	1.49
Spironcia	3063.27 20	T 50 PAI	43.18	264.85	266.45	266.77	267.53	0.020612	4.80	11.24	26.58	1.48
Spironcia	3063.27 20	T 100 PAI	49.21	264.85	266.51	266.82	267.62	0.020219	4.94	13.18	31.57	1.48
Spironcia	3063.27 20	T 200 PAI	55.24	264.85	266.57	266.97	267.69	0.020159	5.09	14.90	33.19	1.49
Spironcia	3063.27 20	T 500 PAI	63.19	264.85	266.63	267.04	267.79	0.020275	5.27	16.91	34.38	1.50
Spironcia	3021.3 21	T 50 PAI	43.18	263.86	265.46	265.89	266.61	0.022612	4.88	9.77	17.36	1.53
Spironcia	3021.3 21	T 100 PAI	49.21	263.86	265.53	265.92	266.73	0.021641	5.02	11.55	24.84	1.52
Spironcia	3021.3 21	T 200 PAI	55.24	263.86	265.60	266.06	266.82	0.020994	5.14	13.39	29.85	1.51
Spironcia	3021.3 21	T 500 PAI	63.19	263.86	265.68	266.13	266.92	0.020507	5.29	15.77	33.39	1.51
Spironcia	2979.32 22	T 50 PAI	43.18	262.87	264.46	264.90	265.63	0.024161	4.88	9.52	13.20	1.57
Spironcia	2979.32 22	T 100 PAI	49.21	262.87	264.54	265.04	265.78	0.023316	5.06	10.63	14.43	1.56
Spironcia	2979.32 22	T 200 PAI	55.24	262.87	264.62	265.17	265.91	0.022315	5.19	12.12	23.43	1.55

HEC-RAS Plan: 09 River: Spironcia Reach: Spironcia (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spironcia	2979.32 22	T 500 PAI	63.19	262.87	264.70	265.23	266.03	0.021523	5.34	14.28	28.11	1.54
Spironcia	2937.351 23	T 50 PAI	43.18	261.88	263.48	263.94	264.61	0.023855	4.78	9.67	13.31	1.55
Spironcia	2937.351 23	T 100 PAI	49.21	261.88	263.55	264.04	264.78	0.024215	5.01	10.60	13.83	1.58
Spironcia	2937.351 23	T 200 PAI	55.24	261.88	263.62	264.08	264.93	0.023941	5.21	11.57	14.37	1.59
Spironcia	2937.351 23	T 500 PAI	63.19	261.88	263.72	264.14	265.10	0.022860	5.38	13.16	21.05	1.57
Spironcia	2893.56 24	T 50 PAI	45.04	260.95	262.56	262.90	263.58	0.021687	4.48	10.05	10.89	1.49
Spironcia	2893.56 24	T 100 PAI	51.32	260.95	262.65	262.99	263.74	0.021421	4.63	11.17	14.03	1.50
Spironcia	2893.56 24	T 200 PAI	57.59	260.95	262.73	263.17	263.90	0.021508	4.81	12.25	15.15	1.51
Spironcia	2893.56 24	T 500 PAI	65.85	260.95	262.81	263.33	264.10	0.021573	5.05	13.53	15.96	1.53
Spironcia	2849.76 25	T 50 PAI	45.04	260.01	262.53	261.86	262.70	0.001670	1.84	27.07	30.95	0.46
Spironcia	2849.76 25	T 100 PAI	51.32	260.01	262.55	261.97	262.76	0.002070	2.07	27.69	31.89	0.51
Spironcia	2849.76 25	T 200 PAI	57.59	260.01	262.56	262.08	262.82	0.002515	2.29	28.18	32.61	0.56
Spironcia	2849.76 25	T 500 PAI	65.85	260.01	261.79	262.21	263.08	0.024876	5.03	13.08	13.22	1.62
Spironcia	2805.967 26	T 50 PAI	45.04	259.08	262.61	260.89	262.64	0.000171	0.79	89.47	110.19	0.16
Spironcia	2805.967 26	T 100 PAI	51.32	259.08	262.65	260.98	262.68	0.000202	0.87	94.31	112.14	0.17
Spironcia	2805.967 26	T 200 PAI	57.59	259.08	262.70	261.09	262.73	0.000229	0.93	99.11	113.09	0.18
Spironcia	2805.967 26	T 500 PAI	65.85	259.08	262.76	261.19	262.79	0.000259	1.01	105.88	114.84	0.19
Spironcia	2780 27		Culvert									
Spironcia	2760.741 28	T 50 PAI	45.04	258.79	261.08		261.39	0.005121	2.47	18.22	15.95	0.74
Spironcia	2760.741 28	T 100 PAI	51.32	258.79	261.19		261.53	0.005074	2.56	20.06	16.65	0.74
Spironcia	2760.741 28	T 200 PAI	57.59	258.79	261.14		261.60	0.007238	3.00	19.20	16.31	0.88
Spironcia	2760.741 28	T 500 PAI	65.85	258.79	261.15	261.14	261.74	0.009329	3.41	19.30	16.35	1.00
Spironcia	2721.61 29	T 50 PAI	45.04	258.36	260.52	260.52	261.10	0.009482	3.37	13.38	11.65	1.00
Spironcia	2721.61 29	T 100 PAI	51.32	258.36	260.68	260.68	261.25	0.008476	3.36	15.52	17.54	0.96
Spironcia	2721.61 29	T 200 PAI	57.59	258.36	261.03	261.03	261.36	0.003797	2.66	28.51	66.88	0.67
Spironcia	2721.61 29	T 500 PAI	65.85	258.36	261.15	261.15	261.45	0.003387	2.63	36.81	78.13	0.64
Spironcia	2682.478 30	T 50 PAI	45.04	257.94	259.94	260.15	260.61	0.016003	4.12	16.94	61.63	1.23
Spironcia	2682.478 30	T 100 PAI	51.32	257.94	259.96	260.19	260.75	0.019128	4.51	18.05	64.22	1.35

HEC-RAS Plan: 09 River: Spironcia Reach: Spironcia (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spironcia	2682.478 30	T 200 PAI	57.59	257.94	259.95	260.23	260.98	0.024743	5.13	17.67	63.22	1.53
Spironcia	2682.478 30	T 500 PAI	65.85	257.94	259.99	260.25	261.08	0.026896	5.38	20.03	68.39	1.60
Spironcia	2635.96 31	T 50 PAI	45.04	257.31	259.44	259.59	259.95	0.011113	3.62	20.43	66.00	1.05
Spironcia	2635.96 31	T 100 PAI	51.32	257.31	259.48	259.62	259.99	0.011389	3.72	23.14	68.66	1.07
Spironcia	2635.96 31	T 200 PAI	57.59	257.31	259.50	259.68	260.05	0.012254	3.90	25.05	69.53	1.11
Spironcia	2635.96 31	T 500 PAI	65.85	257.31	259.55	259.71	260.10	0.012355	4.01	28.11	70.41	1.12
Spironcia	2589.44 32	T 50 PAI	45.04	256.68	258.75	258.95	259.38	0.013079	3.90	17.65	53.94	1.14
Spironcia	2589.44 32	T 100 PAI	51.32	256.68	258.80	258.99	259.41	0.013038	3.97	20.35	56.49	1.15
Spironcia	2589.44 32	T 200 PAI	57.59	256.68	258.84	259.05	259.46	0.013179	4.07	22.69	59.02	1.16
Spironcia	2589.44 32	T 500 PAI	65.85	256.68	258.89	259.09	259.50	0.012996	4.15	25.88	61.27	1.16
Spironcia	2542.92 33	T 50 PAI	45.04	256.05	258.05	258.27	258.74	0.014399	4.05	16.93	52.42	1.20
Spironcia	2542.92 33	T 100 PAI	51.32	256.05	258.10	258.32	258.77	0.014372	4.13	19.61	55.52	1.20
Spironcia	2542.92 33	T 200 PAI	57.59	256.05	258.14	258.37	258.81	0.014447	4.21	22.03	57.73	1.21
Spironcia	2542.92 33	T 500 PAI	65.85	256.05	258.19	258.39	258.86	0.014386	4.32	25.22	63.99	1.22
Spironcia	2496.41 34	T 50 PAI	45.04	255.42	257.36	257.57	258.05	0.014995	4.09	17.40	59.89	1.22
Spironcia	2496.41 34	T 100 PAI	51.32	255.42	257.40	257.61	258.09	0.015137	4.19	20.15	64.20	1.24
Spironcia	2496.41 34	T 200 PAI	57.59	255.42	257.44	257.64	258.12	0.015344	4.28	22.49	65.26	1.25
Spironcia	2496.41 34	T 500 PAI	65.85	255.42	257.48	257.69	258.16	0.015656	4.40	25.25	66.81	1.27
Spironcia	2449.89 35	T 50 PAI	45.04	254.79	256.64	256.85	257.33	0.015919	4.15	17.79	64.40	1.26
Spironcia	2449.89 35	T 100 PAI	51.32	254.79	256.68	256.89	257.36	0.016177	4.23	20.39	66.33	1.27
Spironcia	2449.89 35	T 200 PAI	57.59	254.79	256.72	256.92	257.38	0.016173	4.30	22.96	69.05	1.28
Spironcia	2449.89 35	T 500 PAI	65.85	254.79	256.76	256.95	257.41	0.016189	4.37	26.05	71.36	1.28
Spironcia	2403.37 36	T 50 PAI	45.04	254.16	255.92	256.11	256.57	0.016451	4.13	18.62	68.67	1.28
Spironcia	2403.37 36	T 100 PAI	51.32	254.16	255.95	256.13	256.58	0.016502	4.19	21.29	70.30	1.28
Spironcia	2403.37 36	T 200 PAI	57.59	254.16	255.99	256.17	256.60	0.016582	4.25	23.79	72.37	1.29
Spironcia	2403.37 36	T 500 PAI	65.85	254.16	256.03	256.21	256.63	0.016716	4.32	26.81	74.37	1.30
Spironcia	2355.99 37	T 50 PAI	45.04	253.53	255.21	255.37	255.79	0.015554	3.90	19.55	73.57	1.25
Spironcia	2355.99 37	T 100 PAI	51.32	253.53	255.24	255.40	255.81	0.015458	3.96	22.41	76.16	1.26
Spironcia	2355.99 37	T 200 PAI	57.59	253.53	255.28	255.46	255.83	0.015398	4.01	25.05	78.29	1.26

HEC-RAS Plan: 09 River: Spironcia Reach: Spironcia (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spironcia	2355.99 37	T 500 PAI	65.85	253.53	255.32	255.49	255.86	0.015212	4.08	28.31	80.35	1.26
Spironcia	2308.61 38	T 50 PAI	45.04	252.90	254.49	254.66	255.04	0.015507	3.78	20.12	81.05	1.26
Spironcia	2308.61 38	T 100 PAI	51.32	252.90	254.52	254.70	255.07	0.015523	3.87	22.81	82.38	1.27
Spironcia	2308.61 38	T 200 PAI	57.59	252.90	254.55	254.72	255.09	0.015473	3.95	25.40	84.15	1.27
Spironcia	2308.61 38	T 500 PAI	65.85	252.90	254.59	254.74	255.13	0.015526	4.05	28.50	85.32	1.28
Spironcia	2261.23 39	T 50 PAI	45.04	252.27	253.77	253.93	254.30	0.015533	3.70	20.53	87.46	1.26
Spironcia	2261.23 39	T 100 PAI	51.32	252.27	253.80	253.96	254.33	0.015510	3.79	23.39	89.59	1.27
Spironcia	2261.23 39	T 200 PAI	57.59	252.27	253.83	253.98	254.36	0.015591	3.88	25.90	90.17	1.28
Spironcia	2261.23 39	T 500 PAI	65.85	252.27	253.86	254.02	254.39	0.015654	3.98	28.99	90.78	1.29
Spironcia	2213.85 40	T 50 PAI	45.04	251.64	253.05	253.19	253.55	0.015583	3.61	21.04	93.08	1.26
Spironcia	2213.85 40	T 100 PAI	51.32	251.64	253.08	253.23	253.58	0.015711	3.71	23.76	93.62	1.28
Spironcia	2213.85 40	T 200 PAI	57.59	251.64	253.10	253.25	253.61	0.015661	3.79	26.47	95.44	1.28
Spironcia	2213.85 40	T 500 PAI	65.85	251.64	253.14	253.29	253.64	0.015642	3.88	29.71	96.40	1.29
Spironcia	2166.472 41	T 50 PAI	45.04	251.01	252.33	252.46	252.80	0.015759	3.52	21.45	96.35	1.27
Spironcia	2166.472 41	T 100 PAI	51.32	251.01	252.35	252.50	252.83	0.015737	3.60	24.32	98.82	1.27
Spironcia	2166.472 41	T 200 PAI	57.59	251.01	252.38	252.52	252.86	0.015732	3.68	27.08	99.67	1.28
Spironcia	2166.472 41	T 500 PAI	65.85	251.01	252.78	252.56	252.85	0.001699	1.57	69.18	112.18	0.45
Spironcia	2126.24 42	T 50 PAI	45.04	250.05	252.32	252.02	252.36	0.000893	1.20	62.27	107.59	0.33
Spironcia	2126.24 42	T 100 PAI	51.32	250.05	252.36	252.07	252.41	0.000988	1.28	66.35	109.93	0.34
Spironcia	2126.24 42	T 200 PAI	57.59	250.05	252.43	252.11	252.48	0.000890	1.26	75.16	112.57	0.33
Spironcia	2126.24 42	T 500 PAI	65.85	250.05	252.79		252.81	0.000345	0.91	116.88	127.22	0.21
Spironcia	2086.011 43	T 50 PAI	45.04	249.08	252.33	250.92	252.34	0.000121	0.57	131.81	146.53	0.13
Spironcia	2086.011 43	T 100 PAI	51.32	249.08	252.37	251.06	252.38	0.000140	0.62	137.52	147.36	0.14
Spironcia	2086.011 43	T 200 PAI	57.59	249.08	252.45	251.51	252.46	0.000141	0.63	148.92	148.59	0.14
Spironcia	2086.011 43	T 500 PAI	65.85	249.08	252.79	251.62	252.80	0.000077	0.52	201.41	155.61	0.10
Spironcia	2080 44		Culvert									
Spironcia	2074.01 45	T 50 PAI	45.04	248.90	252.33		252.33	0.000040	0.38	180.08	151.56	0.08
Spironcia	2074.01 45	T 100 PAI	51.32	248.90	252.36		252.37	0.000049	0.42	185.11	152.66	0.09

HEC-RAS Plan: 09 River: Spironcia Reach: Spironcia (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spironcia	2074.01 45	T 200 PAI	57.59	248.90	252.44		252.45	0.000052	0.45	197.08	154.60	0.09
Spironcia	2074.01 45	T 500 PAI	65.85	248.90	252.78		252.78	0.000035	0.40	250.29	161.48	0.07
Spironcia	2069.235 46	T 50 PAI	45.04	248.71	252.33	249.79	252.33	0.000023	0.32	208.75	153.37	0.06
Spironcia	2069.235 46	T 100 PAI	51.32	248.71	252.36	249.91	252.37	0.000029	0.36	213.85	153.92	0.07
Spironcia	2069.235 46	T 200 PAI	57.59	248.71	252.44	249.98	252.45	0.000031	0.38	225.95	156.78	0.07
Spironcia	2069.235 46	T 500 PAI	65.85	248.71	252.78	250.06	252.78	0.000023	0.35	280.07	165.21	0.06
Spironcia	2060 47		Bridge									
Spironcia	2058.58 48	T 50 PAI	45.04	248.53	251.85		251.87	0.000175	0.67	100.86	100.37	0.15
Spironcia	2058.58 48	T 100 PAI	51.32	248.53	252.13		252.14	0.000120	0.61	130.96	116.40	0.13
Spironcia	2058.58 48	T 200 PAI	57.59	248.53	252.40		252.41	0.000083	0.54	164.46	126.18	0.11
Spironcia	2058.58 48	T 500 PAI	65.85	248.53	252.76		252.77	0.000054	0.47	211.70	143.96	0.09
Spironcia	2052.346 49	T 50 PAI	45.04	248.83	251.85		251.87	0.000359	0.81	84.88	96.14	0.19
Spironcia	2052.346 49	T 100 PAI	51.32	248.83	252.13		252.14	0.000215	0.69	113.60	109.60	0.15
Spironcia	2052.346 49	T 200 PAI	57.59	248.83	252.40		252.41	0.000138	0.60	145.57	121.05	0.13
Spironcia	2052.346 49	T 500 PAI	65.85	248.83	252.76		252.77	0.000080	0.50	190.26	126.04	0.10
Spironcia	2040.013 50	T 50 PAI	51.71	248.81	251.76	250.67	251.85	0.000988	1.60	53.85	83.86	0.32
Spironcia	2040.013 50	T 100 PAI	58.88	248.81	252.09	250.86	252.13	0.000476	1.21	83.35	92.35	0.23
Spironcia	2040.013 50	T 200 PAI	66.02	248.81	252.38	251.53	252.41	0.000292	1.01	111.39	101.91	0.18
Spironcia	2040.013 50	T 500 PAI	75.43	248.81	252.75	251.61	252.77	0.000174	0.84	152.13	117.14	0.14
Spironcia	2030 51		Bridge									
Spironcia	2019.711 52	T 50 PAI	51.71	248.31	249.43	250.01	251.29	0.042189	6.03	8.58	9.69	2.05
Spironcia	2019.711 52	T 100 PAI	58.88	248.31	249.51	250.15	251.54	0.044216	6.32	9.32	10.19	2.11
Spironcia	2019.711 52	T 200 PAI	66.02	248.31	249.57	250.26	251.79	0.045468	6.59	10.02	10.47	2.15
Spironcia	2019.711 52	T 500 PAI	75.43	248.31	249.65	250.39	252.11	0.047290	6.94	10.87	10.81	2.21
Spironcia	1995.116 53	T 50 PAI	51.71	248.10	250.44	250.44	250.63	0.004411	2.47	36.62	89.07	0.69
Spironcia	1995.116 53	T 100 PAI	58.88	248.10	250.44	250.49	250.69	0.005952	2.86	35.99	88.32	0.80
Spironcia	1995.116 53	T 200 PAI	66.02	248.10	250.39	250.52	250.81	0.009535	3.55	32.39	81.98	1.01
Spironcia	1995.116 53	T 500 PAI	75.43	248.10	250.38	250.56	250.98	0.013934	4.24	30.87	79.31	1.22

HEC-RAS Plan: 09 River: Spironcia Reach: Spironcia (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spironcia	1951.73 54	T 50 PAI	51.71	247.65	249.88	250.05	250.35	0.008731	3.51	25.31	74.67	0.97
Spironcia	1951.73 54	T 100 PAI	58.88	247.65	249.94	250.09	250.37	0.008321	3.52	29.56	78.52	0.95
Spironcia	1951.73 54	T 200 PAI	66.02	247.65	249.98	250.12	250.42	0.008411	3.61	32.94	84.65	0.96
Spironcia	1951.73 54	T 500 PAI	75.43	247.65	250.03	250.17	250.47	0.008418	3.70	37.52	89.93	0.97
Spironcia	1908.343 55	T 50 PAI	51.71	247.20	249.06	249.27	249.78	0.018882	4.50	20.56	76.18	1.36
Spironcia	1908.343 55	T 100 PAI	58.88	247.20	249.09	249.30	249.82	0.019204	4.63	23.20	79.66	1.38
Spironcia	1908.343 55	T 200 PAI	66.02	247.20	249.12	249.33	249.85	0.019551	4.75	25.65	82.59	1.40
Spironcia	1908.343 55	T 500 PAI	75.43	247.20	249.16	249.37	249.90	0.020033	4.91	28.65	85.97	1.42
Spironcia	1868.147 56	T 50 PAI	51.71	246.81	248.51	248.71	249.09	0.014052	3.75	19.90	52.04	1.21
Spironcia	1868.147 56	T 100 PAI	58.88	246.81	248.57	248.75	249.13	0.013339	3.79	23.00	55.13	1.19
Spironcia	1868.147 56	T 200 PAI	66.02	246.81	248.62	248.81	249.17	0.012775	3.83	25.96	61.42	1.17
Spironcia	1868.147 56	T 500 PAI	75.43	246.81	248.68	248.87	249.22	0.012305	3.89	29.90	73.14	1.16
Spironcia	1824.72 57	T 50 PAI	51.71	246.21	247.86	248.15	248.53	0.011315	3.63	14.77	26.73	1.12
Spironcia	1824.72 57	T 100 PAI	58.88	246.21	247.98	248.25	248.63	0.009833	3.62	18.51	40.78	1.06
Spironcia	1824.72 57	T 200 PAI	66.02	246.21	248.06	248.32	248.70	0.009129	3.65	22.43	52.43	1.03
Spironcia	1824.72 57	T 500 PAI	75.43	246.21	248.16	248.37	248.78	0.008502	3.69	27.83	65.11	1.01
Spironcia	1781.29 58	T 50 PAI	51.71	245.60	246.80	247.10	247.81	0.023822	4.45	11.63	14.16	1.57
Spironcia	1781.29 58	T 100 PAI	58.88	245.60	246.88	247.21	247.96	0.023143	4.59	12.82	14.52	1.56
Spironcia	1781.29 58	T 200 PAI	66.02	245.60	246.98	247.32	248.07	0.021168	4.62	14.28	14.96	1.51
Spironcia	1781.29 58	T 500 PAI	75.43	245.60	247.12	247.64	248.20	0.018495	4.62	16.34	15.59	1.43
Spironcia	1737.854 59	T 50 PAI	51.71	245.00	246.61	246.28	246.88	0.003688	2.30	22.50	20.07	0.66
Spironcia	1737.854 59	T 100 PAI	58.88	245.00	246.68	246.37	246.99	0.003908	2.47	24.29	26.38	0.68
Spironcia	1737.854 59	T 200 PAI	66.02	245.00	246.20	246.46	247.15	0.019485	4.31	15.31	16.78	1.44
Spironcia	1737.854 59	T 500 PAI	75.43	245.00	246.26	246.57	247.35	0.021046	4.63	16.30	17.00	1.51
Spironcia	1696.72 60	T 50 PAI	51.71	244.62	246.45	246.10	246.73	0.003450	2.37	23.69	41.81	0.65
Spironcia	1696.72 60	T 100 PAI	58.88	244.62	246.41	246.19	246.80	0.004955	2.79	22.26	35.66	0.77
Spironcia	1696.72 60	T 200 PAI	66.02	244.62	246.45	246.30	246.91	0.005613	3.02	23.71	41.91	0.82
Spironcia	1696.72 60	T 500 PAI	75.43	244.62	246.62	246.62	247.02	0.004374	2.89	32.22	53.23	0.74

HEC-RAS Plan: 09 River: Spironcia Reach: Spironcia (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spironcia	1655.58 61	T 50 PAI	51.71	244.25	246.05	245.94	246.52	0.006487	3.05	17.83	37.86	0.87
Spironcia	1655.58 61	T 100 PAI	58.88	244.25	246.27	246.27	246.60	0.004009	2.67	28.90	56.27	0.70
Spironcia	1655.58 61	T 200 PAI	66.02	244.25	246.34	246.34	246.68	0.003997	2.75	32.83	59.74	0.71
Spironcia	1655.58 61	T 500 PAI	75.43	244.25	246.30	246.42	246.80	0.005999	3.31	30.44	57.79	0.86
Spironcia	1614.44 62	T 50 PAI	51.71	243.88	245.99	245.99	246.26	0.003700	2.55	30.26	64.32	0.67
Spironcia	1614.44 62	T 100 PAI	58.88	243.88	245.92	246.07	246.38	0.006411	3.24	25.76	59.11	0.87
Spironcia	1614.44 62	T 200 PAI	66.02	243.88	245.96	246.12	246.45	0.006654	3.38	28.67	62.11	0.89
Spironcia	1614.44 62	T 500 PAI	75.43	243.88	246.03	246.19	246.53	0.006843	3.52	32.62	67.16	0.91
Spironcia	1573.298 63	T 50 PAI	51.71	243.50	245.58	245.75	246.03	0.007460	3.35	24.64	63.98	0.92
Spironcia	1573.298 63	T 100 PAI	58.88	243.50	245.64	245.79	246.09	0.007508	3.45	28.27	69.62	0.93
Spironcia	1573.298 63	T 200 PAI	66.02	243.50	245.68	245.83	246.15	0.007835	3.58	31.00	71.92	0.95
Spironcia	1573.298 63	T 500 PAI	75.43	243.50	245.73	245.88	246.22	0.008210	3.75	34.59	76.15	0.98
Spironcia	1528.18 64	T 50 PAI	51.71	243.41	245.48	245.50	245.72	0.004252	2.62	33.87	75.60	0.70
Spironcia	1528.18 64	T 100 PAI	58.88	243.41	245.52	245.55	245.78	0.004489	2.75	37.06	77.04	0.72
Spironcia	1528.18 64	T 200 PAI	66.02	243.41	245.58	245.59	245.82	0.004280	2.75	41.65	79.09	0.71
Spironcia	1528.18 64	T 500 PAI	75.43	243.41	245.64	245.64	245.89	0.004359	2.84	46.03	80.55	0.72
Spironcia	1483.06 65	T 50 PAI	51.71	243.32	245.37	245.26	245.50	0.002391	2.03	43.87	79.10	0.53
Spironcia	1483.06 65	T 100 PAI	58.88	243.32	245.41	245.32	245.55	0.002631	2.16	47.09	81.90	0.56
Spironcia	1483.06 65	T 200 PAI	66.02	243.32	245.45	245.35	245.60	0.002784	2.26	50.39	83.27	0.58
Spironcia	1483.06 65	T 500 PAI	75.43	243.32	245.50	245.38	245.67	0.002950	2.38	54.65	85.10	0.60
Spironcia	1437.946 66	T 50 PAI	51.71	243.23	245.36	244.99	245.41	0.000989	1.39	62.47	86.62	0.35
Spironcia	1437.946 66	T 100 PAI	58.88	243.23	245.40	245.06	245.46	0.001116	1.50	65.66	87.40	0.37
Spironcia	1437.946 66	T 200 PAI	66.02	243.23	245.43	245.11	245.50	0.001234	1.60	68.74	88.14	0.39
Spironcia	1437.946 66	T 500 PAI	75.43	243.23	245.48	245.14	245.55	0.001378	1.72	72.68	91.36	0.41
Spironcia	1430 67		Bridge									
Spironcia	1415.566 68	T 50 PAI	51.71	242.80	243.38	243.77	245.16	0.137765	5.91	8.76	25.66	3.23
Spironcia	1415.566 68	T 100 PAI	58.88	242.80	243.43	243.82	245.21	0.133291	5.91	9.97	28.50	3.19
Spironcia	1415.566 68	T 200 PAI	66.02	242.80	243.47	243.87	245.24	0.128416	5.90	11.18	31.08	3.14
Spironcia	1415.566 68	T 500 PAI	75.43	242.80	243.52	243.93	245.30	0.116617	5.91	12.77	32.95	3.03

HEC-RAS Plan: 09 River: Spironcia Reach: Spironcia (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spironcia	1392.985 69	T 50 PAI	51.71	242.29	243.89	243.26	243.95	0.000981	1.13	45.59	39.56	0.34
Spironcia	1392.985 69	T 100 PAI	58.88	242.29	243.94	243.31	244.02	0.001114	1.24	47.57	40.20	0.36
Spironcia	1392.985 69	T 200 PAI	66.02	242.29	243.99	243.36	244.08	0.001241	1.33	49.49	40.92	0.38
Spironcia	1392.985 69	T 500 PAI	75.43	242.29	244.06	243.43	244.16	0.001364	1.44	52.38	41.97	0.41
Spironcia	1345.519 70	T 50 PAI	51.71	241.82	243.64	243.64	243.86	0.004053	2.49	34.81	74.79	0.69
Spironcia	1345.519 70	T 100 PAI	58.88	241.82	243.69	243.69	243.91	0.004128	2.58	38.55	78.04	0.70
Spironcia	1345.519 70	T 200 PAI	66.02	241.82	243.73	243.73	243.96	0.004334	2.69	41.65	81.84	0.72
Spironcia	1345.519 70	T 500 PAI	75.43	241.82	243.83	243.83	244.05	0.003913	2.68	51.21	99.69	0.69
Spironcia	1296.92 71	T 50 PAI	51.71	241.20	242.84	243.05	243.48	0.014101	3.86	19.75	67.02	1.23
Spironcia	1296.92 71	T 100 PAI	58.88	241.20	242.88	243.11	243.53	0.014082	3.97	22.72	69.46	1.24
Spironcia	1296.92 71	T 200 PAI	66.02	241.20	242.93	243.14	243.57	0.013905	4.06	25.93	75.89	1.24
Spironcia	1296.92 71	T 500 PAI	75.43	241.20	242.96	243.17	243.66	0.015162	4.32	28.28	77.47	1.30
Spironcia	1248.317 72	T 50 PAI	51.71	240.57	242.26	242.43	242.77	0.013459	3.54	22.01	72.39	1.19
Spironcia	1248.317 72	T 100 PAI	58.88	240.57	242.30	242.46	242.82	0.013487	3.64	24.88	74.09	1.20
Spironcia	1248.317 72	T 200 PAI	66.02	240.57	242.33	242.50	242.87	0.013755	3.76	27.34	75.45	1.22
Spironcia	1248.317 72	T 500 PAI	75.43	240.57	242.38	242.55	242.92	0.013535	3.85	30.90	77.38	1.21
Spironcia	1206.08 73	T 50 PAI	51.71	240.08	241.79	241.92	242.25	0.010848	3.38	22.96	63.18	1.08
Spironcia	1206.08 73	T 100 PAI	58.88	240.08	241.84	241.97	242.30	0.010609	3.45	26.12	65.39	1.08
Spironcia	1206.08 73	T 200 PAI	66.02	240.08	241.88	242.01	242.34	0.010409	3.51	29.09	67.05	1.08
Spironcia	1206.08 73	T 500 PAI	75.43	240.08	241.94	242.09	242.40	0.010226	3.60	32.78	69.06	1.08
Spironcia	1163.85 74	T 50 PAI	51.71	239.58	241.26	241.43	241.77	0.011744	3.56	21.03	51.54	1.13
Spironcia	1163.85 74	T 100 PAI	58.88	239.58	241.33	241.48	241.83	0.011094	3.62	25.00	61.79	1.11
Spironcia	1163.85 74	T 200 PAI	66.02	239.58	241.37	241.52	241.88	0.011035	3.71	27.67	62.83	1.11
Spironcia	1163.85 74	T 500 PAI	75.43	239.58	241.42	241.57	241.94	0.011006	3.82	30.99	64.49	1.12
Spironcia	1121.617 75	T 50 PAI	51.71	239.09	240.70	240.90	241.24	0.012930	3.74	20.60	50.37	1.18
Spironcia	1121.617 75	T 100 PAI	58.88	239.09	240.74	240.94	241.31	0.013280	3.89	22.76	51.55	1.21
Spironcia	1121.617 75	T 200 PAI	66.02	239.09	240.79	240.98	241.37	0.013088	3.98	25.24	54.24	1.21
Spironcia	1121.617 75	T 500 PAI	75.43	239.09	240.86	241.04	241.44	0.012626	4.07	29.25	60.69	1.20

HEC-RAS Plan: 09 River: Spironcia Reach: Spironcia (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spironcia	1093.29 76	T 50 PAI	51.71	239.04	240.45	240.56	240.84	0.012323	3.39	23.74	59.46	1.14
Spironcia	1093.29 76	T 100 PAI	58.88	239.04	240.48	240.60	240.90	0.012621	3.53	26.01	60.56	1.16
Spironcia	1093.29 76	T 200 PAI	66.02	239.04	240.52	240.64	240.96	0.012755	3.64	28.31	62.23	1.18
Spironcia	1093.29 76	T 500 PAI	75.43	239.04	240.56	240.70	241.03	0.013696	3.86	30.45	63.13	1.23
Spironcia	1064.955 77	T 50 PAI	51.71	238.98	240.16	240.23	240.45	0.013258	3.11	26.02	69.35	1.15
Spironcia	1064.955 77	T 100 PAI	58.88	238.98	240.19	240.28	240.50	0.013362	3.23	28.59	71.48	1.17
Spironcia	1064.955 77	T 200 PAI	66.02	238.98	240.23	240.30	240.55	0.013377	3.33	31.23	74.73	1.18
Spironcia	1064.955 77	T 500 PAI	75.43	238.98	240.27	240.35	240.61	0.013413	3.44	34.37	76.61	1.19
Spironcia	1016.75 78	T 50 PAI	51.71	238.37	239.74	239.76	240.00	0.007689	2.78	27.92	59.84	0.91
Spironcia	1016.75 78	T 100 PAI	58.88	238.37	239.80	239.82	240.06	0.007314	2.82	31.74	64.26	0.90
Spironcia	1016.75 78	T 200 PAI	66.02	238.37	239.85	239.87	240.12	0.006975	2.86	35.46	67.70	0.89
Spironcia	1016.75 78	T 500 PAI	75.43	238.37	239.92	239.92	240.19	0.006482	2.88	40.24	69.80	0.87
Spironcia	968.55 79	T 50 PAI	51.71	237.76	239.07	239.21	239.53	0.012230	3.35	21.19	47.54	1.14
Spironcia	968.55 79	T 100 PAI	58.88	237.76	239.12	239.26	239.60	0.012250	3.48	23.57	49.73	1.15
Spironcia	968.55 79	T 200 PAI	66.02	237.76	239.17	239.29	239.66	0.012347	3.60	25.70	50.75	1.17
Spironcia	968.55 79	T 500 PAI	75.43	237.76	239.22	239.37	239.74	0.012410	3.73	28.41	51.95	1.18
Spironcia	920.34 80	T 50 PAI	51.71	237.15	238.48	238.62	238.95	0.011735	3.29	20.56	45.04	1.12
Spironcia	920.34 80	T 100 PAI	58.88	237.15	238.53	238.67	239.02	0.011690	3.41	22.92	46.66	1.13
Spironcia	920.34 80	T 200 PAI	66.02	237.15	238.59	238.72	239.09	0.011525	3.51	25.33	48.63	1.13
Spironcia	920.34 80	T 500 PAI	75.43	237.15	238.64	238.79	239.17	0.011415	3.63	28.25	50.24	1.14
Spironcia	872.1357 81	T 50 PAI	51.71	236.54	237.87	238.01	238.36	0.012442	3.31	19.69	45.18	1.15
Spironcia	872.1357 81	T 100 PAI	58.88	236.54	237.92	238.07	238.43	0.012396	3.44	22.05	47.23	1.16
Spironcia	872.1357 81	T 200 PAI	66.02	236.54	237.96	238.13	238.50	0.012464	3.56	24.23	48.98	1.17
Spironcia	872.1357 81	T 500 PAI	75.43	236.54	238.02	238.20	238.59	0.012437	3.70	27.07	50.91	1.18
Spironcia	827.76 82	T 50 PAI	51.71	235.96	237.39	237.47	237.73	0.014189	3.09	23.01	53.49	1.17
Spironcia	827.76 82	T 100 PAI	58.88	235.96	237.42	237.51	237.79	0.014791	3.24	24.82	53.93	1.21
Spironcia	827.76 82	T 200 PAI	66.02	235.96	237.45	237.55	237.85	0.015288	3.38	26.56	54.35	1.23
Spironcia	827.76 82	T 500 PAI	75.43	235.96	237.49	237.60	237.93	0.015788	3.54	28.78	54.88	1.26
Spironcia	783.39 83	T 50 PAI	51.71	235.16	236.85	236.95	237.27	0.007644	2.94	20.75	43.07	0.92

HEC-RAS Plan: 09 River: Spironcia Reach: Spironcia (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spironcia	783.39 83	T 100 PAI	58.88	235.16	236.93	237.01	237.34	0.007219	2.98	24.21	44.25	0.90
Spironcia	783.39 83	T 200 PAI	66.02	235.16	237.00	237.08	237.41	0.006934	3.03	27.33	45.03	0.89
Spironcia	783.39 83	T 500 PAI	75.43	235.16	237.09	237.16	237.49	0.006442	3.04	31.87	49.83	0.87
Spironcia	739.02 84	T 50 PAI	51.71	234.53	236.31	236.47	236.84	0.011806	3.45	19.54	45.61	1.12
Spironcia	739.02 84	T 100 PAI	58.88	234.53	236.36	236.51	236.92	0.012119	3.61	21.75	47.34	1.14
Spironcia	739.02 84	T 200 PAI	66.02	234.53	236.40	236.59	236.99	0.012378	3.75	23.84	48.77	1.16
Spironcia	739.02 84	T 500 PAI	75.43	234.53	236.45	236.66	237.08	0.012683	3.92	26.42	50.08	1.19
Spironcia	694.6521 85	T 50 PAI	51.71	234.40	236.08	236.14	236.39	0.006647	2.76	26.75	56.83	0.86
Spironcia	694.6521 85	T 100 PAI	58.88	234.40	236.13	236.17	236.45	0.006910	2.90	29.28	57.64	0.88
Spironcia	694.6521 85	T 200 PAI	66.02	234.40	236.17	236.27	236.51	0.007070	3.00	31.78	58.43	0.90
Spironcia	694.6521 85	T 500 PAI	75.43	234.40	236.24	236.32	236.59	0.007046	3.11	35.90	69.85	0.90
Spironcia	660.27 86	T 50 PAI	51.71	234.01	235.60	235.76	236.08	0.010619	3.37	21.42	52.90	1.07
Spironcia	660.27 86	T 100 PAI	58.88	234.01	235.65	235.81	236.14	0.010568	3.47	24.11	54.44	1.08
Spironcia	660.27 86	T 200 PAI	66.02	234.01	235.71	235.86	236.20	0.010365	3.55	27.05	59.34	1.08
Spironcia	660.27 86	T 500 PAI	75.43	234.01	235.76	235.93	236.28	0.010550	3.70	30.24	64.61	1.10
Spironcia	625.89 87	T 50 PAI	51.71	233.62	235.21	235.38	235.71	0.010751	3.45	21.34	54.55	1.08
Spironcia	625.89 87	T 100 PAI	58.88	233.62	235.26	235.42	235.77	0.010725	3.56	24.09	56.26	1.09
Spironcia	625.89 87	T 200 PAI	66.02	233.62	235.31	235.46	235.83	0.010880	3.68	26.54	60.08	1.11
Spironcia	625.89 87	T 500 PAI	75.43	233.62	235.36	235.55	235.90	0.011010	3.81	29.72	63.07	1.12
Spironcia	591.5115 88	T 50 PAI	51.71	233.23	234.82	235.00	235.34	0.011017	3.52	21.42	55.69	1.10
Spironcia	591.5115 88	T 100 PAI	58.88	233.23	234.87	235.05	235.40	0.011073	3.64	24.13	59.90	1.11
Spironcia	591.5115 88	T 200 PAI	66.02	233.23	234.91	235.08	235.45	0.011281	3.76	26.55	62.25	1.12
Spironcia	591.5115 88	T 500 PAI	75.43	233.23	234.96	235.11	235.52	0.011345	3.88	29.82	65.39	1.13
Spironcia	543.8 89	T 50 PAI	51.71	232.83	234.41	234.48	234.67	0.013786	3.24	28.73	90.03	1.13
Spironcia	543.8 89	T 100 PAI	58.88	232.83	234.43	234.50	234.72	0.014625	3.38	30.82	90.61	1.17
Spironcia	543.8 89	T 200 PAI	66.02	232.83	234.46	234.54	234.76	0.015107	3.49	32.99	91.17	1.19
Spironcia	543.8 89	T 500 PAI	75.43	232.83	234.48	234.57	234.81	0.015983	3.65	35.45	91.92	1.23
Spironcia	496.08 90	T 50 PAI	51.71	232.25	233.95	233.98	234.14	0.008574	2.68	34.72	110.33	0.92
Spironcia	496.08 90	T 100 PAI	58.88	232.25	233.98	234.01	234.17	0.008380	2.70	38.64	112.37	0.91

HEC-RAS Plan: 09 River: Spironcia Reach: Spironcia (Continued)

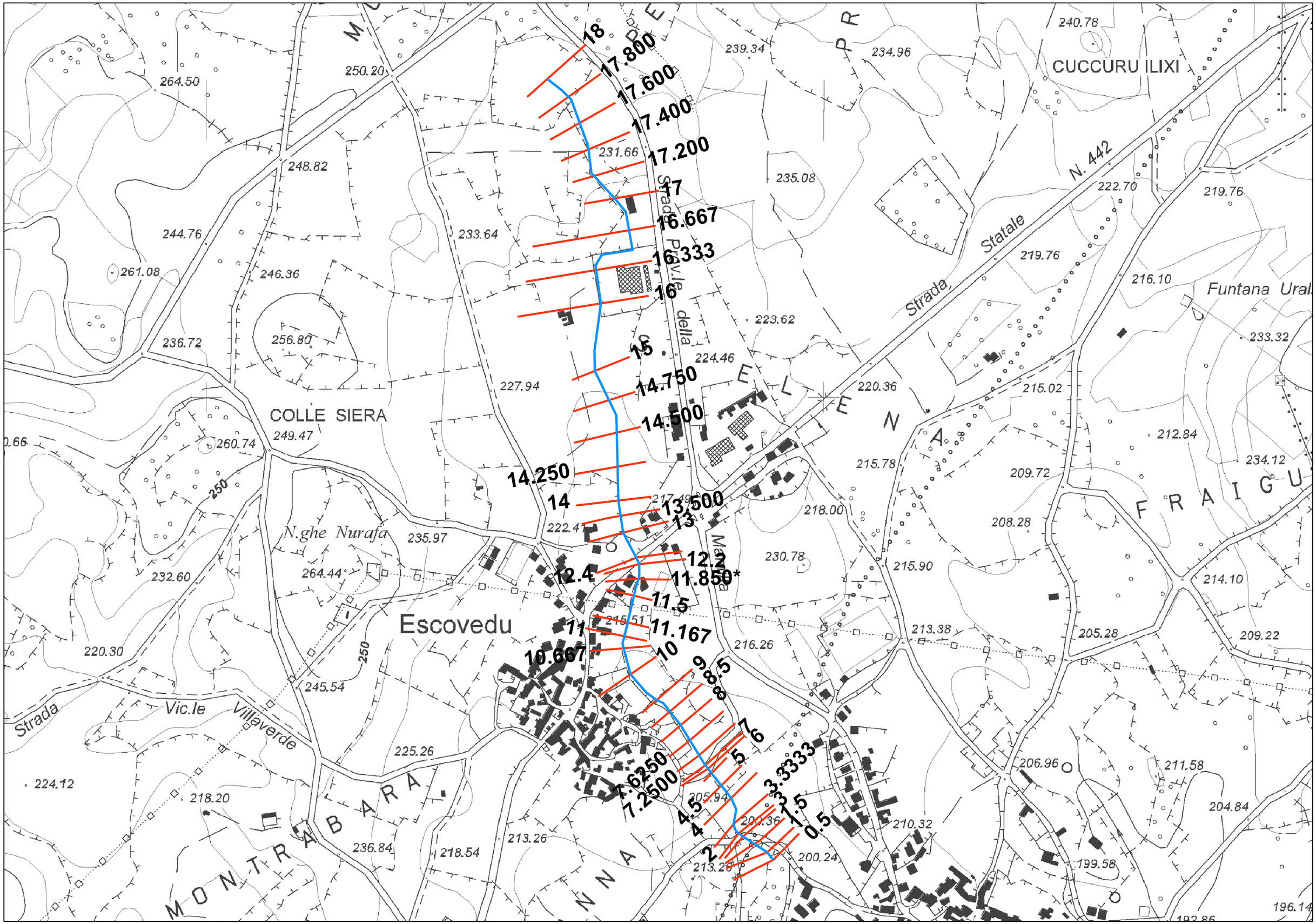
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spironcia	496.08 90	T 200 PAI	66.02	232.25	234.02	234.03	234.20	0.008198	2.72	42.37	113.38	0.91
Spironcia	496.08 90	T 500 PAI	75.43	232.25	234.06	234.07	234.25	0.007987	2.73	47.09	115.01	0.90
Spironcia	448.37 91	T 50 PAI	51.71	231.67	233.40	233.49	233.69	0.009792	3.06	32.72	131.25	1.01
Spironcia	448.37 91	T 100 PAI	58.88	231.67	233.43	233.52	233.72	0.010187	3.15	36.36	133.36	1.03
Spironcia	448.37 91	T 200 PAI	66.02	231.67	233.45	233.54	233.75	0.010594	3.25	39.37	134.52	1.05
Spironcia	448.37 91	T 500 PAI	75.43	231.67	233.48	233.56	233.79	0.011100	3.36	43.17	138.14	1.08
Spironcia	400.65 92	T 50 PAI	51.71	231.09	232.76	232.91	233.17	0.011382	3.37	25.03	96.02	1.09
Spironcia	400.65 92	T 100 PAI	58.88	231.09	232.81	232.96	233.20	0.011116	3.41	29.76	112.84	1.09
Spironcia	400.65 92	T 200 PAI	66.02	231.09	232.85	232.99	233.23	0.010833	3.43	34.41	123.80	1.08
Spironcia	400.65 92	T 500 PAI	75.43	231.09	232.90	233.02	233.26	0.010529	3.47	40.99	141.30	1.07
Spironcia	352.9316 93	T 50 PAI	51.71	231.03	232.25	232.32	232.52	0.014436	3.21	30.30	118.16	1.18
Spironcia	352.9316 93	T 100 PAI	58.88	231.03	232.27	232.36	232.56	0.015212	3.36	32.78	120.94	1.22
Spironcia	352.9316 93	T 200 PAI	66.02	231.03	232.29	232.38	232.59	0.015498	3.45	35.57	124.36	1.24
Spironcia	352.9316 93	T 500 PAI	75.43	231.03	232.32	232.40	232.63	0.016047	3.59	38.80	128.96	1.27
Spironcia	304 94	T 50 PAI	51.71	229.93	231.94	231.82	232.03	0.002171	1.69	51.92	108.02	0.50
Spironcia	304 94	T 100 PAI	58.88	229.93	232.01	231.84	232.09	0.002023	1.69	58.80	110.26	0.48
Spironcia	304 94	T 200 PAI	66.02	229.93	232.06	231.88	232.14	0.001922	1.70	65.35	112.89	0.47
Spironcia	304 94	T 500 PAI	75.43	229.93	232.14	231.92	232.21	0.001814	1.71	73.43	115.02	0.47
Spironcia	255.07 95	T 50 PAI	51.71	229.54	231.59	231.59	231.86	0.004551	2.61	28.93	63.81	0.72
Spironcia	255.07 95	T 100 PAI	58.88	229.54	231.66	231.66	231.93	0.004402	2.66	33.57	67.62	0.71
Spironcia	255.07 95	T 200 PAI	66.02	229.54	231.72	231.72	231.99	0.004452	2.74	37.20	69.23	0.72
Spironcia	255.07 95	T 500 PAI	75.43	229.54	231.79	231.79	232.06	0.004456	2.83	42.02	74.45	0.73
Spironcia	206.1353 96	T 50 PAI	51.71	229.19	230.35	230.55	231.27	0.052162	5.60	15.83	59.45	2.18
Spironcia	206.1353 96	T 100 PAI	58.88	229.19	230.37	230.59	231.34	0.056149	5.80	17.07	60.06	2.26
Spironcia	206.1353 96	T 200 PAI	66.02	229.19	230.39	230.62	231.38	0.058365	5.92	18.39	60.70	2.31
Spironcia	206.1353 96	T 500 PAI	75.43	229.19	230.42	230.67	231.45	0.061313	6.07	19.99	61.45	2.37
Spironcia	166.17 97	T 50 PAI	51.71	228.75	229.86	229.89	230.06	0.014336	2.77	28.74	81.34	1.13
Spironcia	166.17 97	T 100 PAI	58.88	228.75	229.90	229.92	230.10	0.014098	2.80	31.45	81.88	1.13
Spironcia	166.17 97	T 200 PAI	66.02	228.75	229.98	229.95	230.14	0.009626	2.41	38.31	83.14	0.94

HEC-RAS Plan: 09 River: Spironcia Reach: Spironcia (Continued)

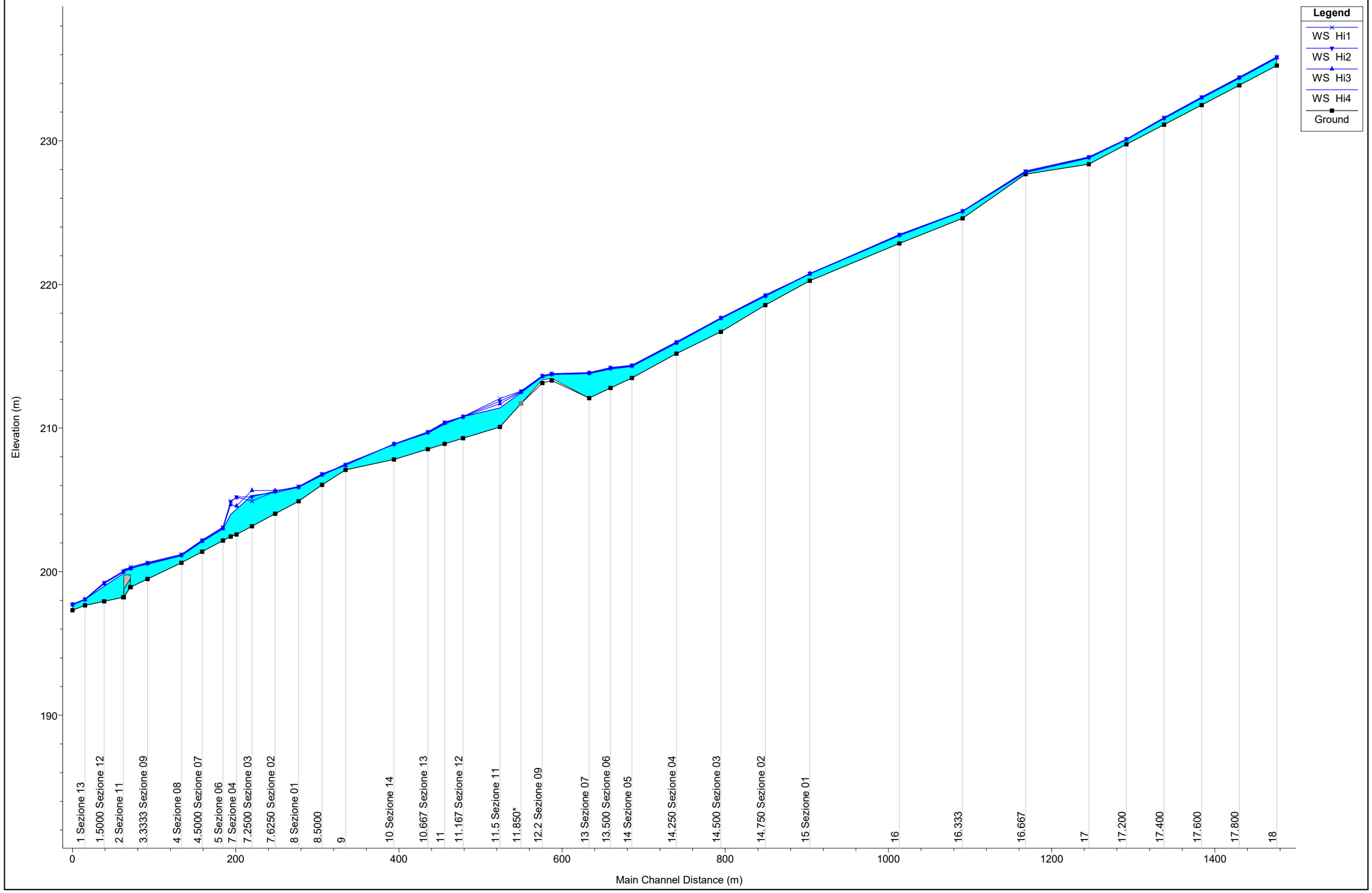
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spironcia	166.17 97	T 500 PAI	75.43	228.75	230.06	229.98	230.21	0.007450	2.21	45.43	85.04	0.83
Spironcia	126.2 98	T 50 PAI	51.71	227.47	229.27	229.30	229.63	0.007583	2.94	22.00	35.00	0.91
Spironcia	126.2 98	T 100 PAI	58.88	227.47	229.36	229.37	229.72	0.006986	2.97	25.02	35.96	0.89
Spironcia	126.2 98	T 200 PAI	66.02	227.47	229.42	229.42	229.80	0.006821	3.05	27.47	36.69	0.89
Spironcia	126.2 98	T 500 PAI	75.43	227.47	229.50	229.50	229.90	0.006796	3.17	30.32	37.48	0.89
Spironcia	86.24 99	T 50 PAI	51.71	227.05	228.68	228.86	229.19	0.016444	3.73	18.88	44.77	1.28
Spironcia	86.24 99	T 100 PAI	58.88	227.05	228.72	228.92	229.28	0.017442	3.94	20.72	50.01	1.32
Spironcia	86.24 99	T 200 PAI	66.02	227.05	228.77	228.97	229.36	0.017664	4.11	23.34	55.36	1.34
Spironcia	86.24 99	T 500 PAI	75.43	227.05	228.81	229.01	229.45	0.018846	4.35	25.36	56.55	1.40
Spironcia	46.27446 100	T 50 PAI	51.71	226.62	228.50	228.50	228.78	0.007003	2.66	26.76	63.52	0.87
Spironcia	46.27446 100	T 100 PAI	58.88	226.62	228.59	228.61	228.85	0.006025	2.62	32.60	67.50	0.82
Spironcia	46.27446 100	T 200 PAI	66.02	226.62	228.65	228.66	228.90	0.005526	2.61	36.93	71.75	0.79
Spironcia	46.27446 100	T 500 PAI	75.43	226.62	228.71	228.71	228.97	0.005445	2.68	41.63	82.43	0.79

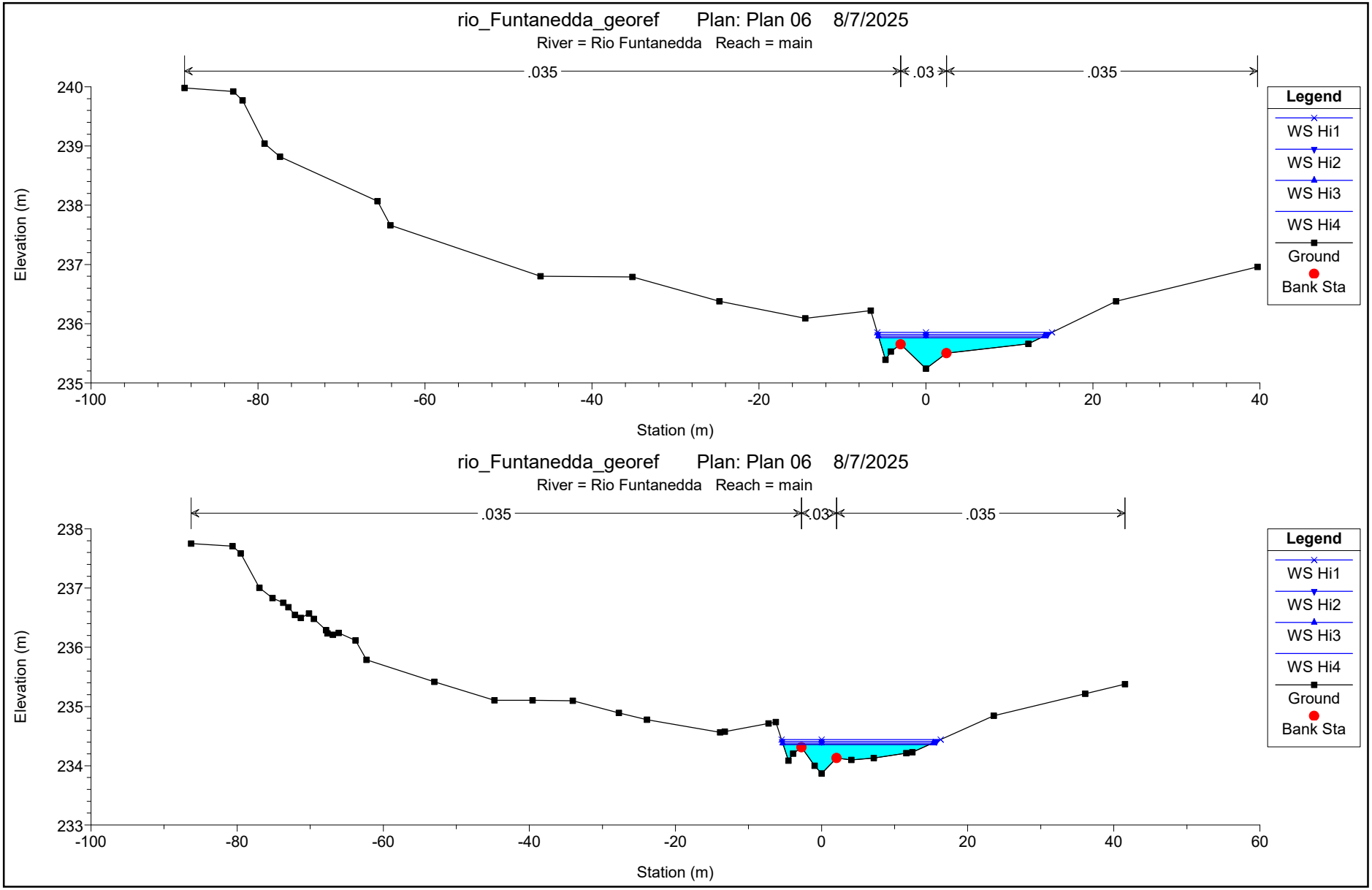
Rio Funtanedda

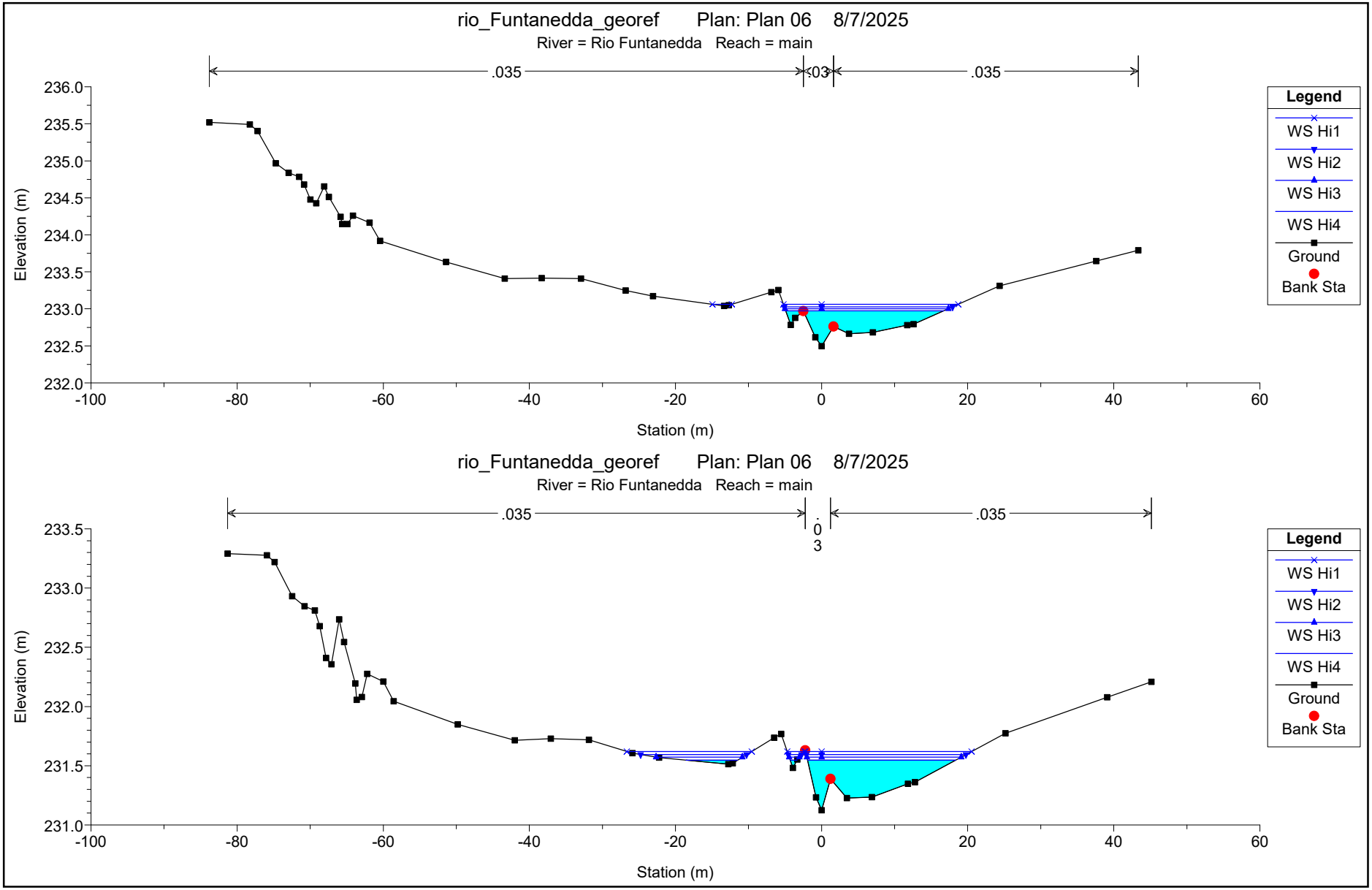
Profilo – Sezioni – Tabelle

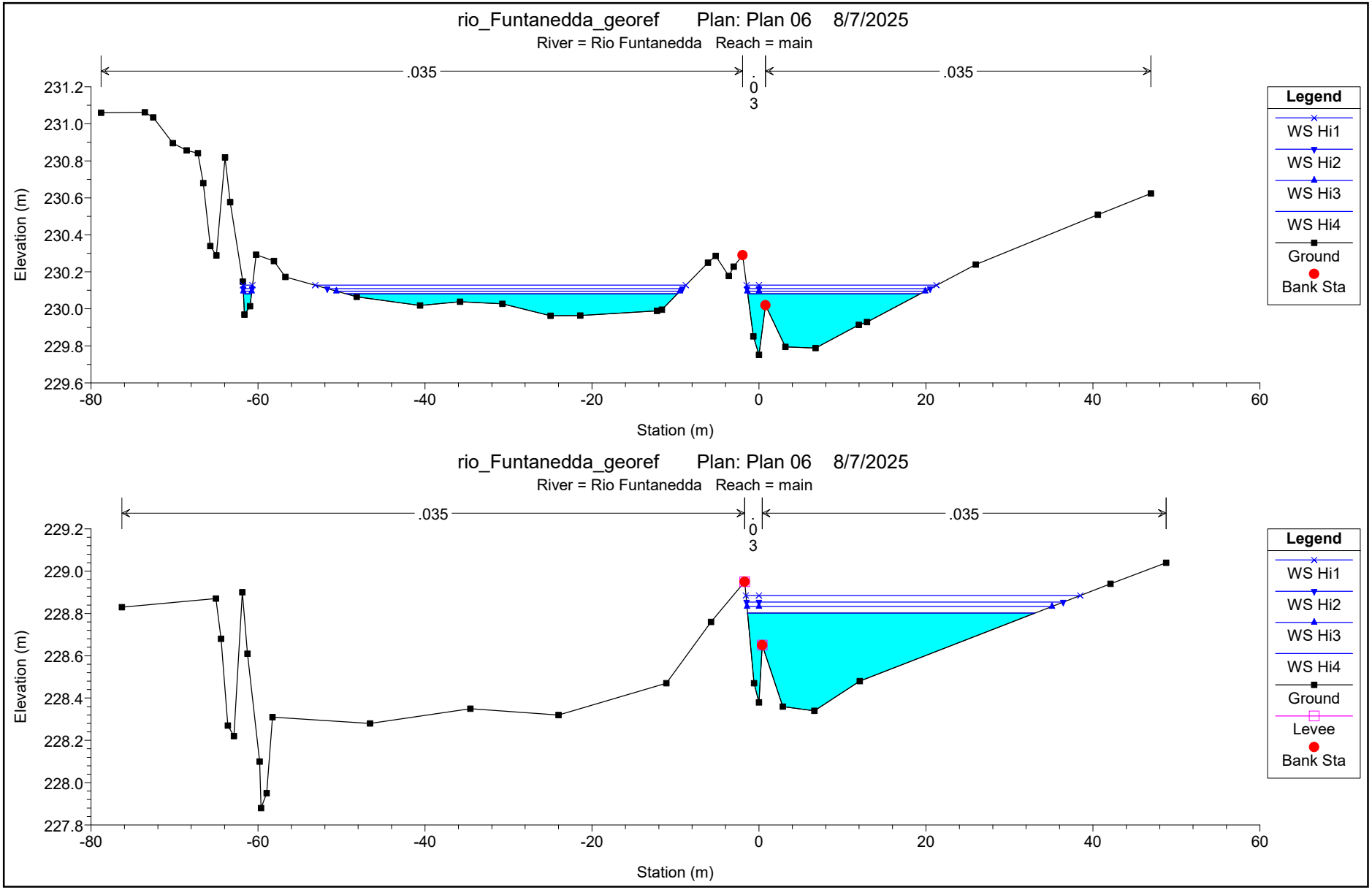

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Strada Statale N. 442
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COLLE SIERA
Escovedu
N.ghe Nurafa
Strada Vic.le Villaverde
Funtana Ural
MONTE ABBARA
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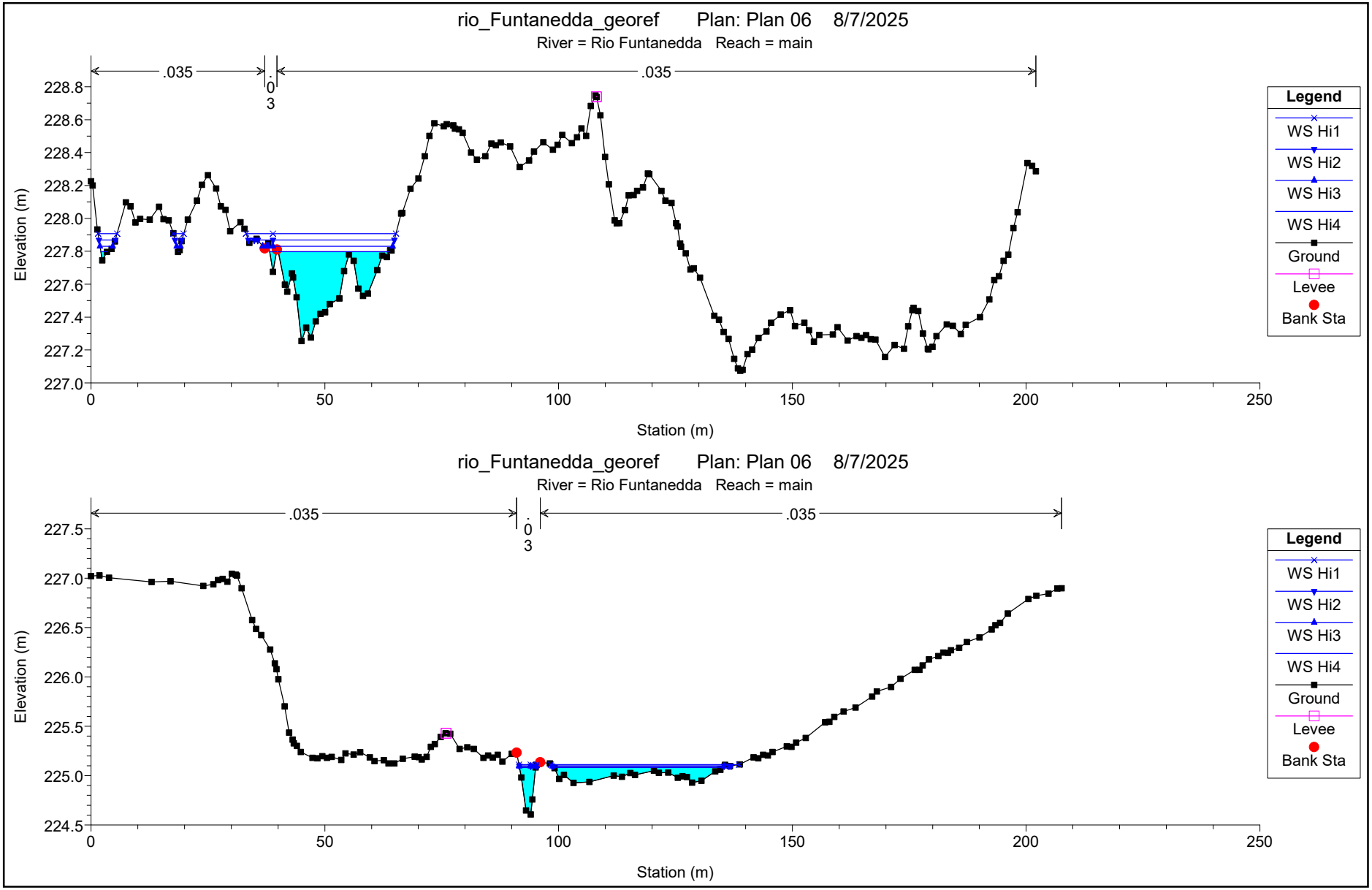
rio_Funtanedda_georef Plan: Plan 06 8/7/2025

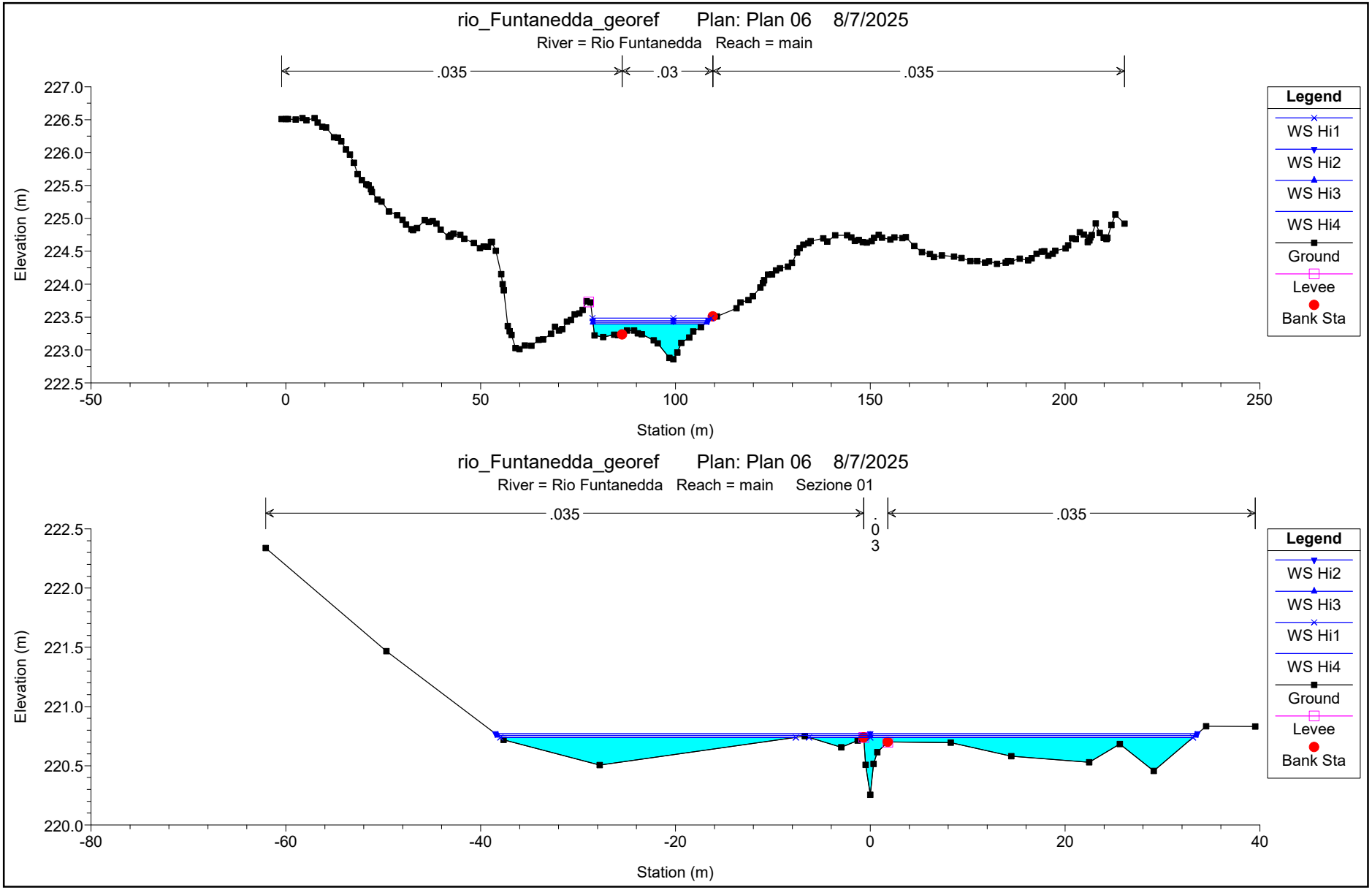


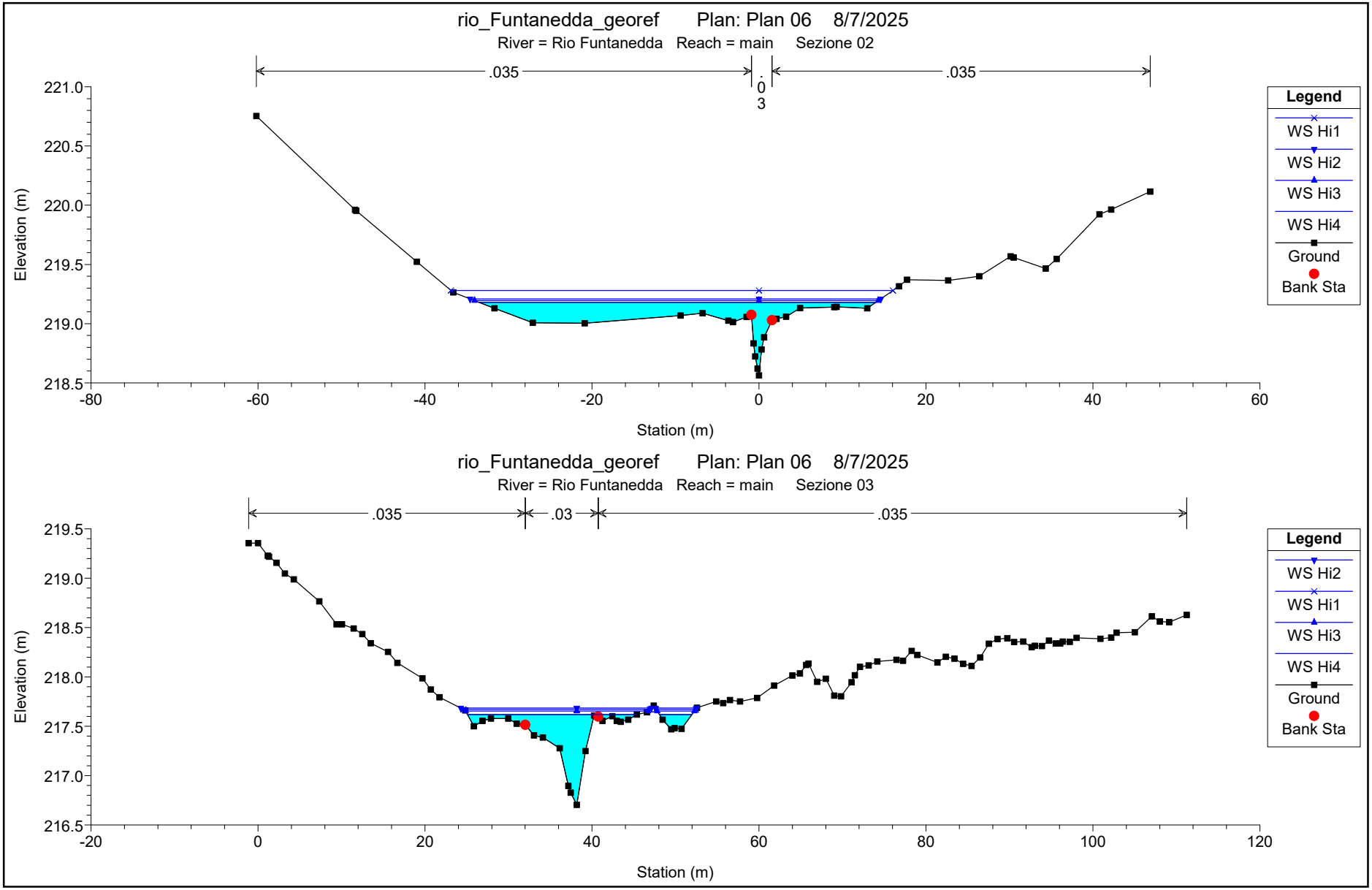

rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main
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Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main
.035
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Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta

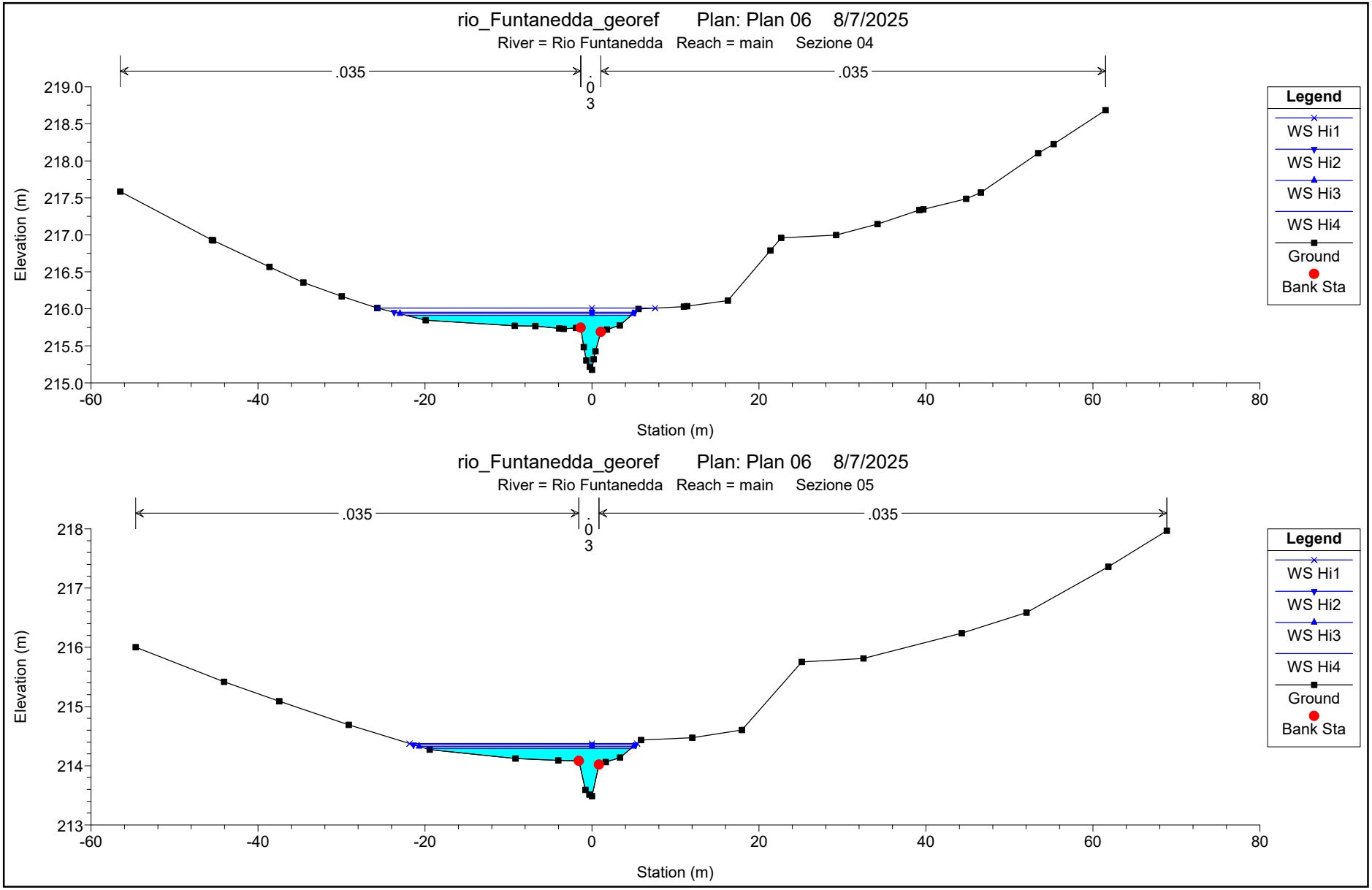

rio_Funtanedda_georef Plan: Plan 06 8/7/2025
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Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main
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Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
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WS Hi4
Ground
Bank Sta

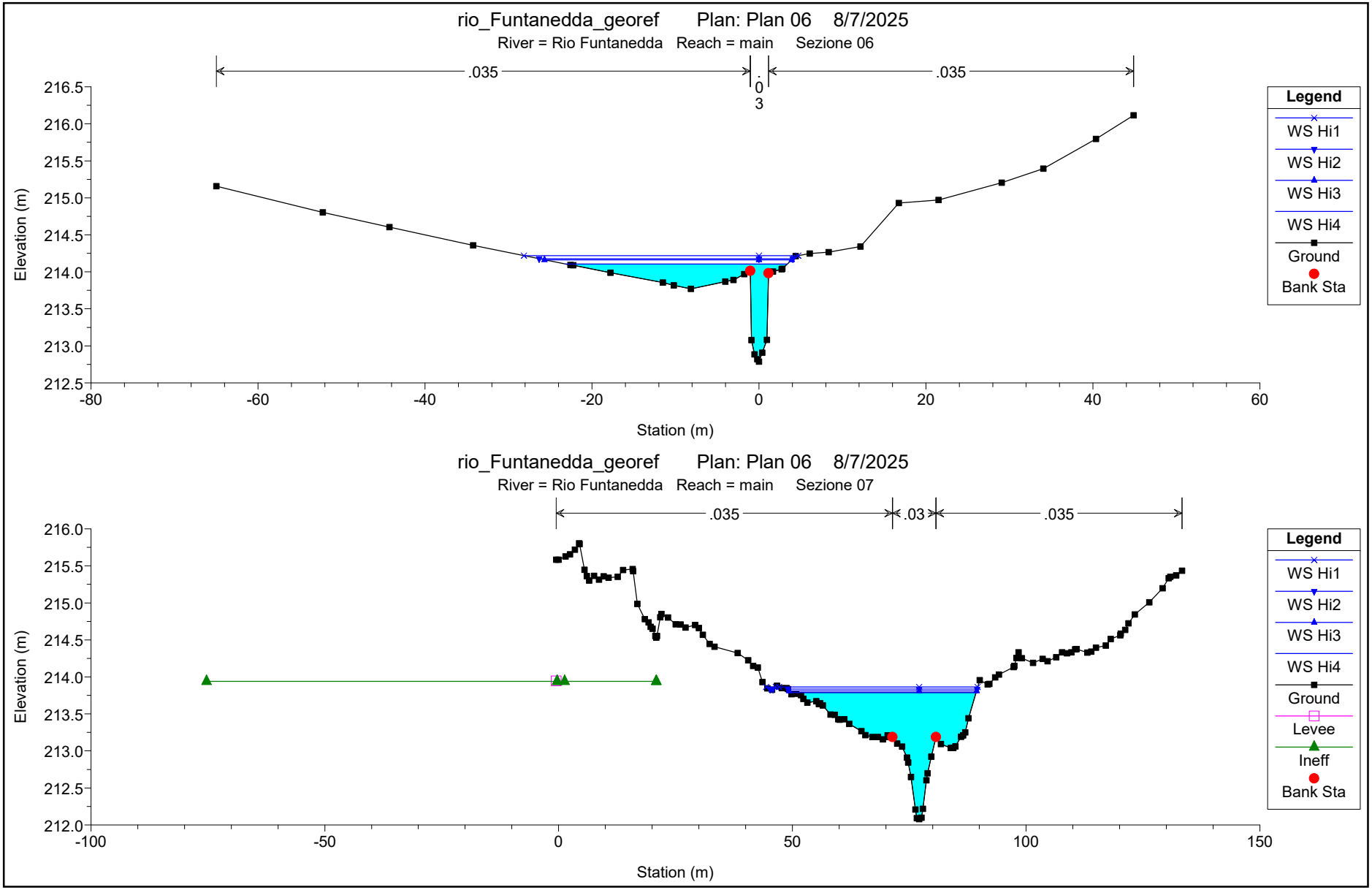

rio_Funtanedda_georef Plan: Plan 06 8/7/2025
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.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main
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Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta

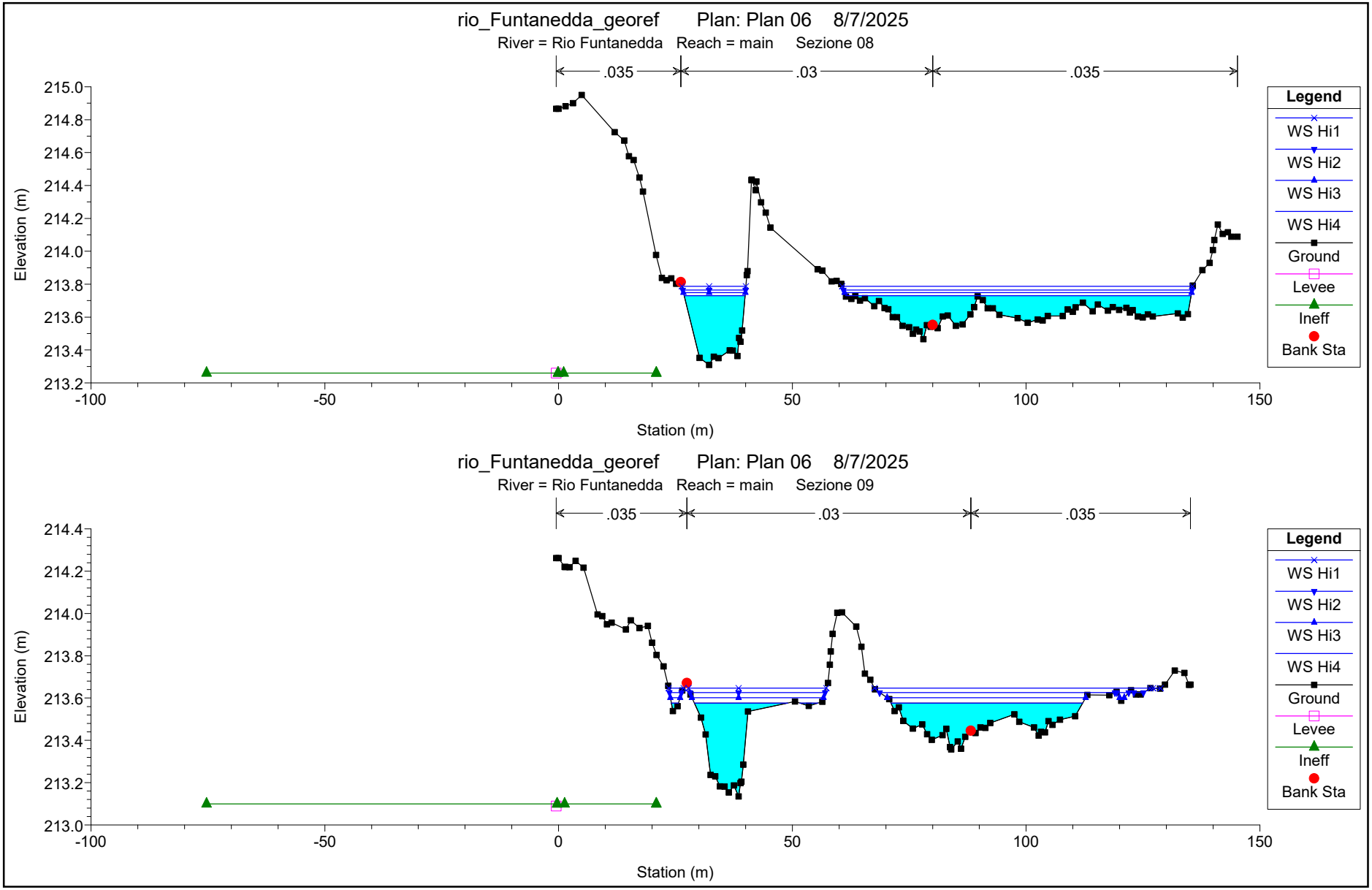

rio_Funtanedda_georef Plan: Plan 06 8/7/2025
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Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main
.035
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Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta

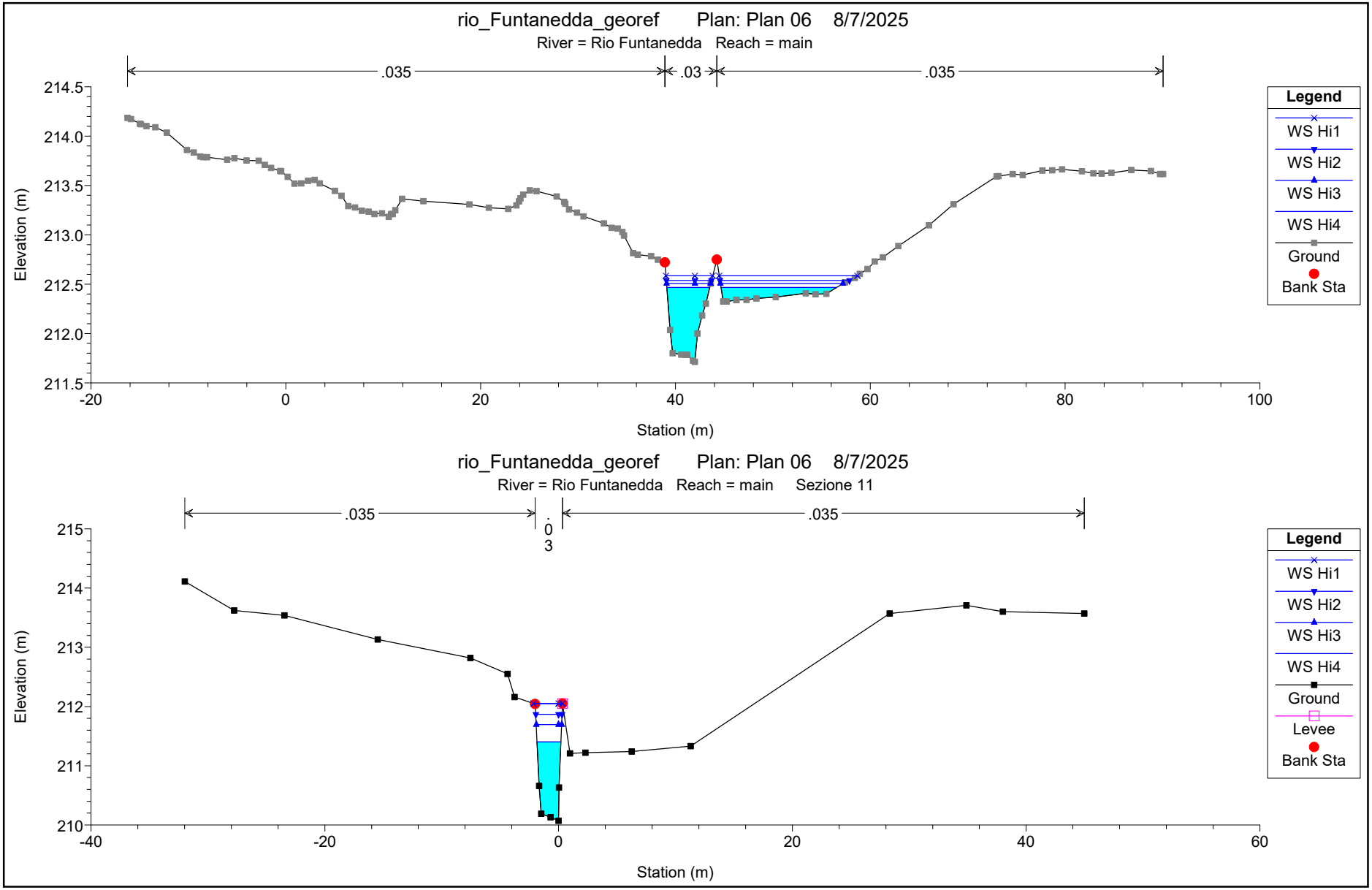

rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main
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.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 01
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.03
.035
Elevation (m)
Station (m)
Legend
WS Hi2
WS Hi3
WS Hi1
WS Hi4
Ground
Levee
Bank Sta

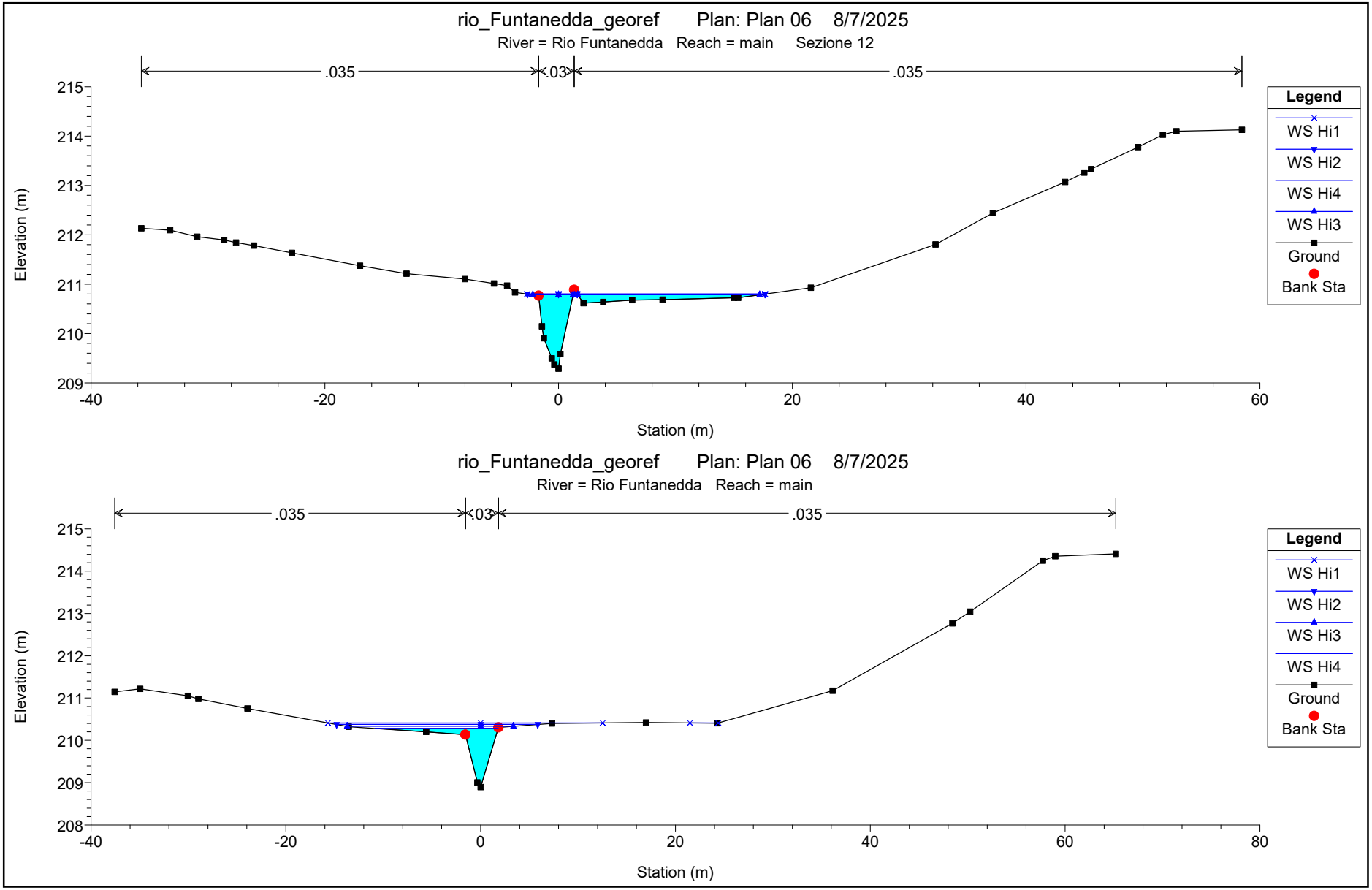

rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 02
.035
.
0
3
.035
Elevation (m)
221.0
220.5
220.0
219.5
219.0
218.5
-80
-60
-40
-20
0
20
40
60
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 03
.035
.03
.035
Elevation (m)
219.5
219.0
218.5
218.0
217.5
217.0
216.5
-20
0
20
40
60
80
100
120
Station (m)
Legend
WS Hi2
WS Hi1
WS Hi3
WS Hi4
Ground
Bank Sta

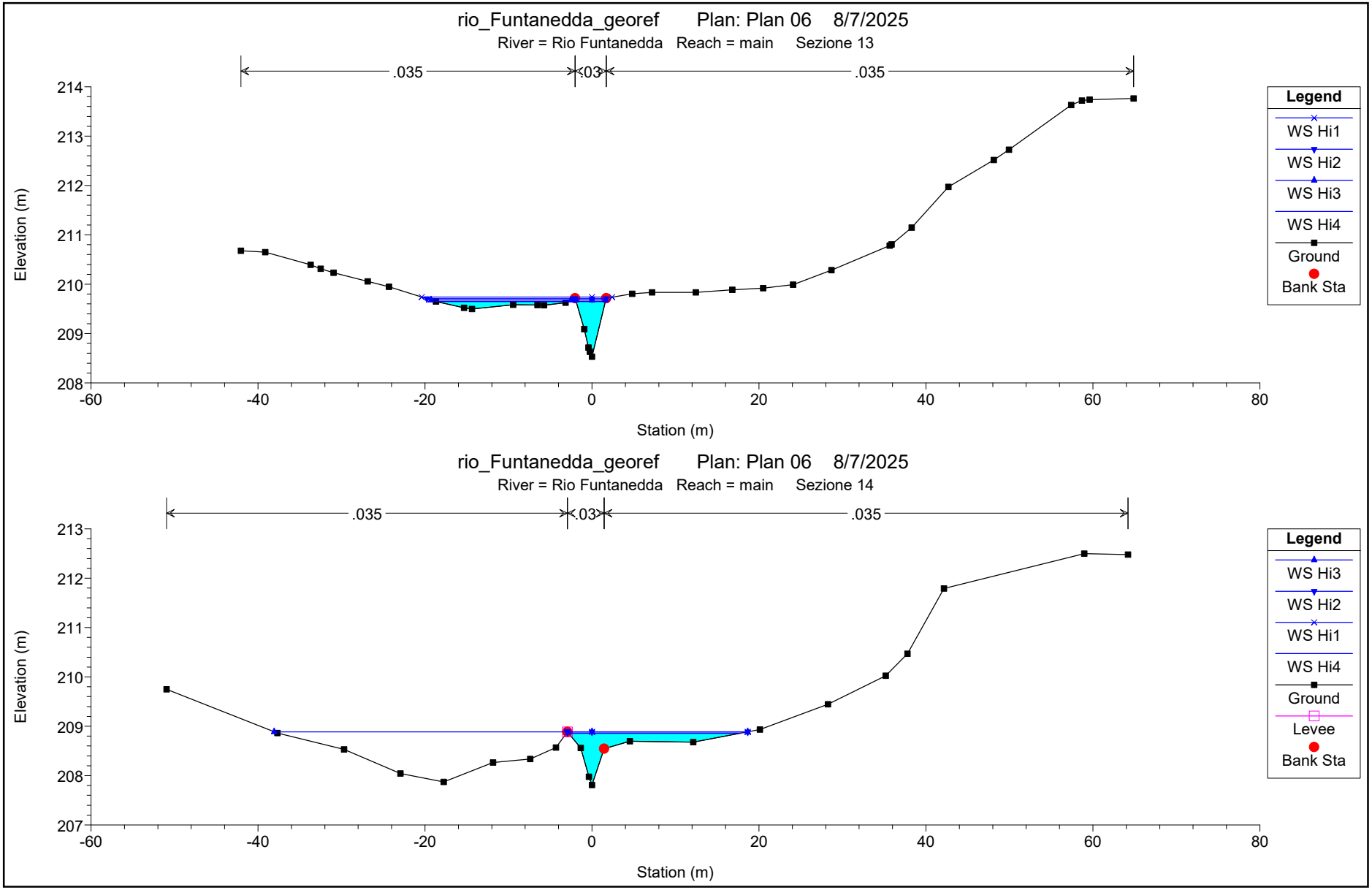

rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 04
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 05
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta

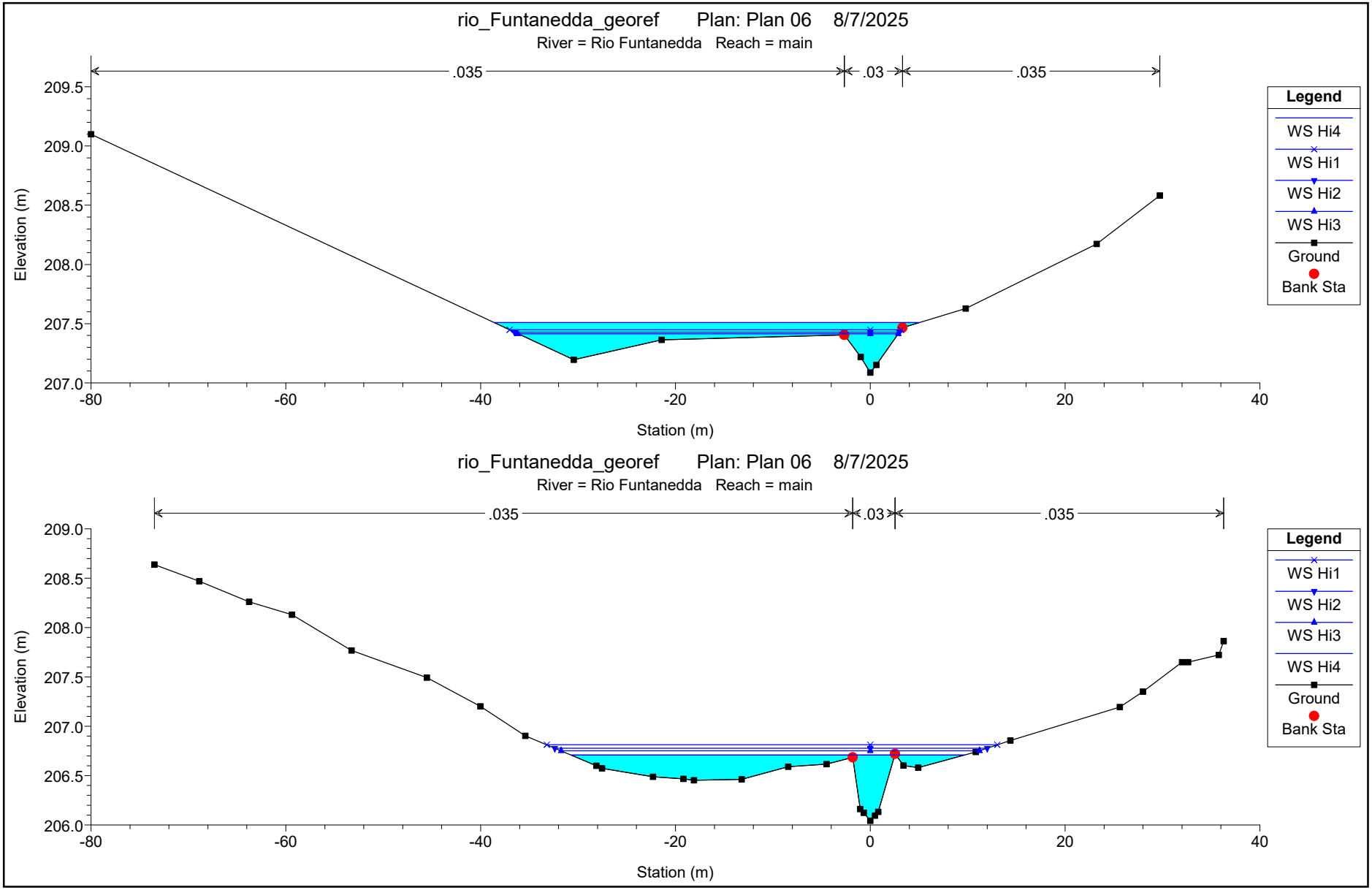

rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 06
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 07
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta

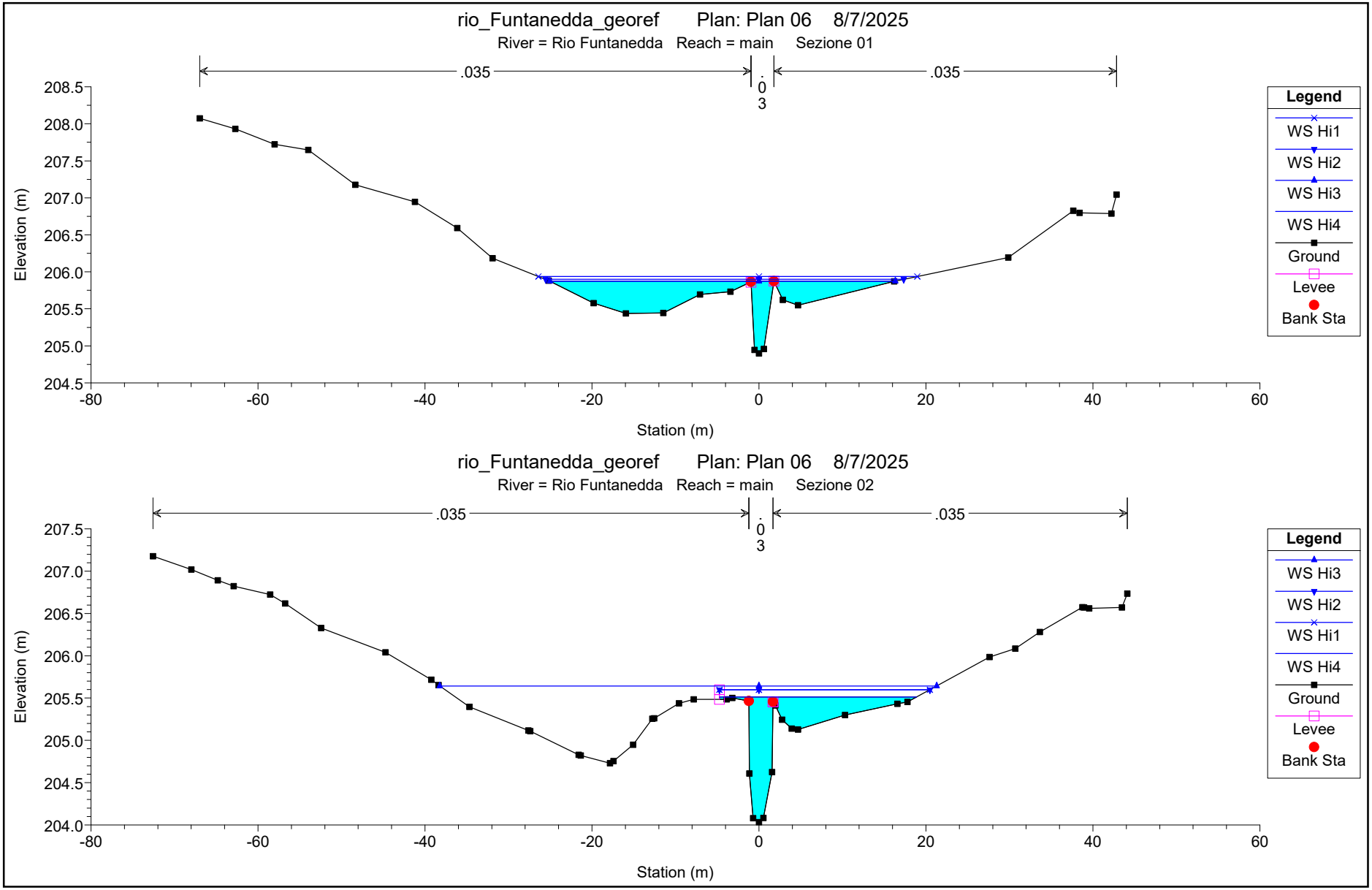

rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 08
.035
.03
.035
Elevation (m)
215.0
214.8
214.6
214.4
214.2
214.0
213.8
213.6
213.4
213.2
-100
-50
0
50
100
150
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 09
.035
.03
.035
Elevation (m)
214.4
214.2
214.0
213.8
213.6
213.4
213.2
213.0
-100
-50
0
50
100
150
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta

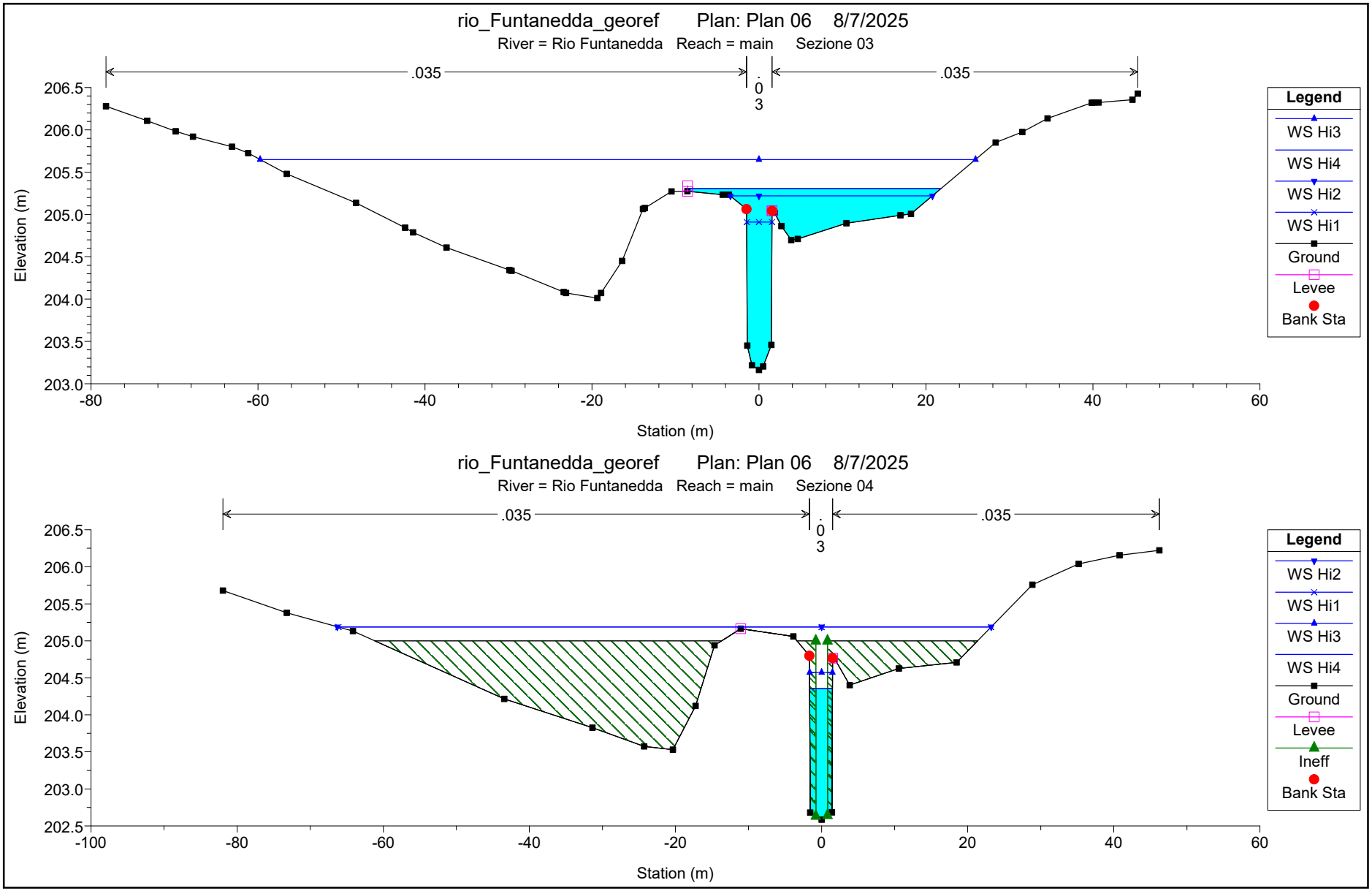

rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main
.035
.03
.035
Elevation (m)
214.5
214.0
213.5
213.0
212.5
212.0
211.5
-20
0
20
40
60
80
100
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 11
.035
.03
.035
Elevation (m)
215
214
213
212
211
210
-40
-20
0
20
40
60
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta

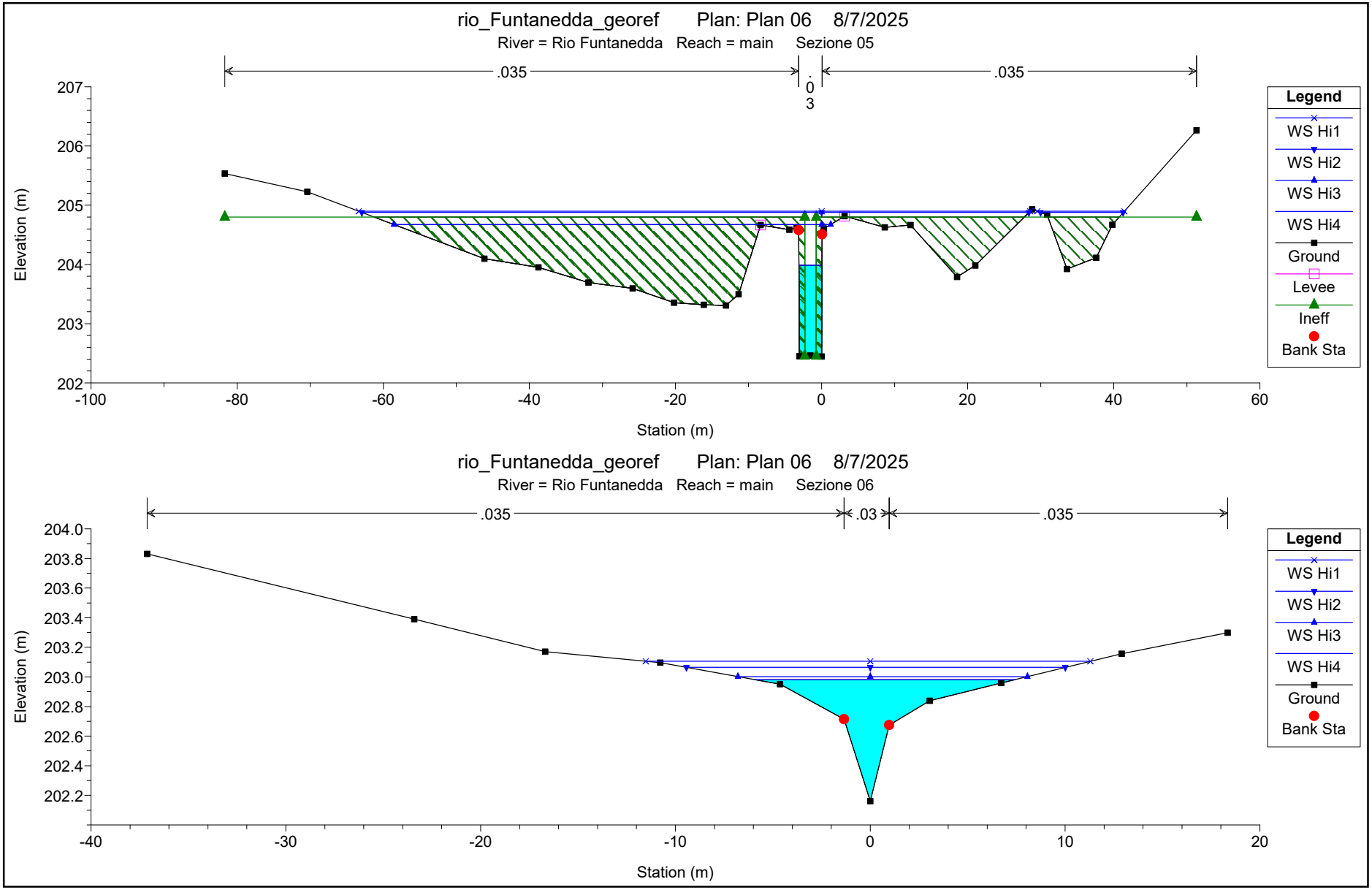

rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 12
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi4
WS Hi3
Ground
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta

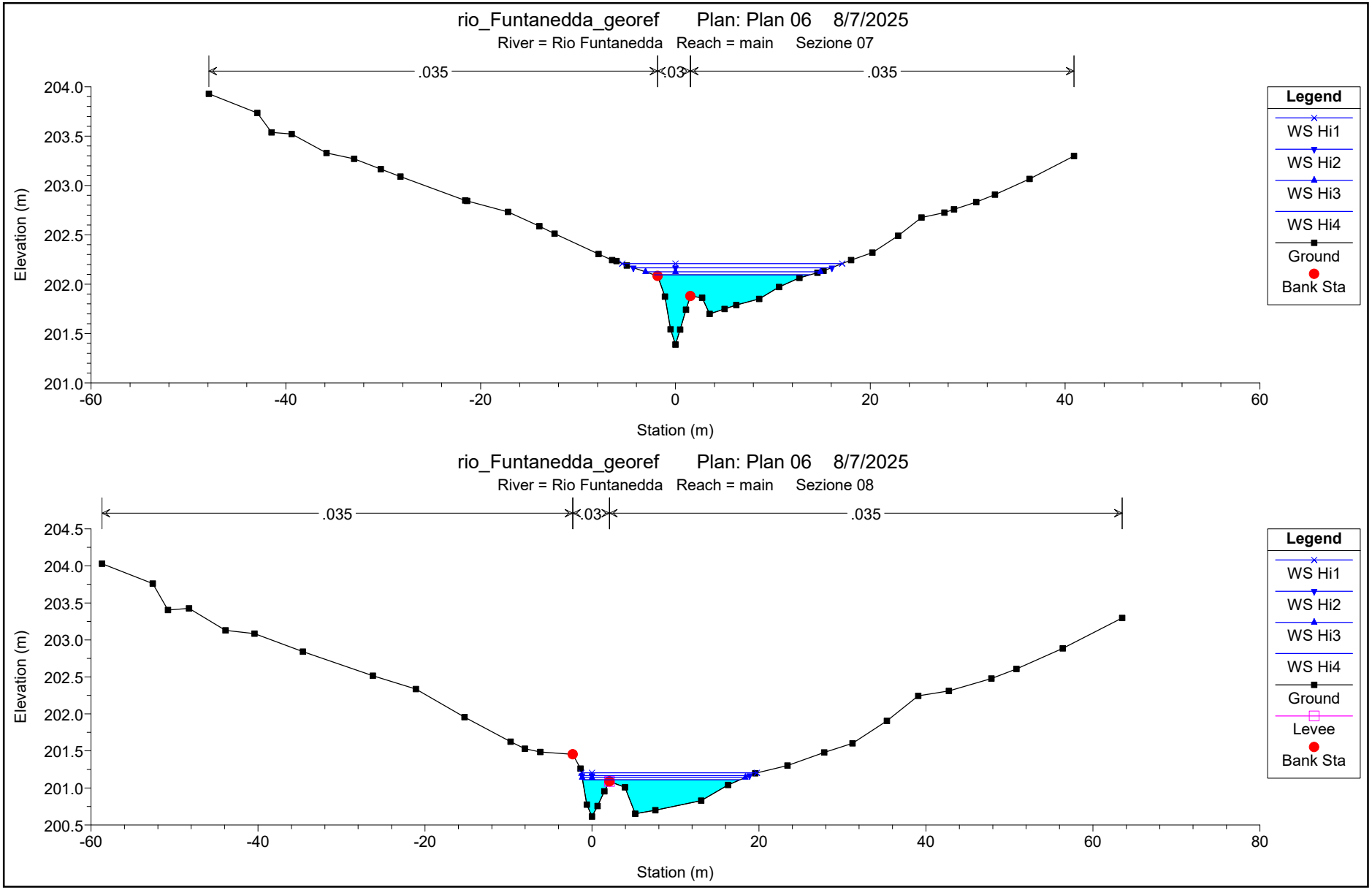

rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 13
.035
.03
.035
Elevation (m)
214
213
212
211
210
209
208
-60
-40
-20
0
20
40
60
80
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 14
.035
.03
.035
Elevation (m)
213
212
211
210
209
208
207
-60
-40
-20
0
20
40
60
80
Station (m)
Legend
WS Hi3
WS Hi2
WS Hi1
WS Hi4
Ground
Levee
Bank Sta

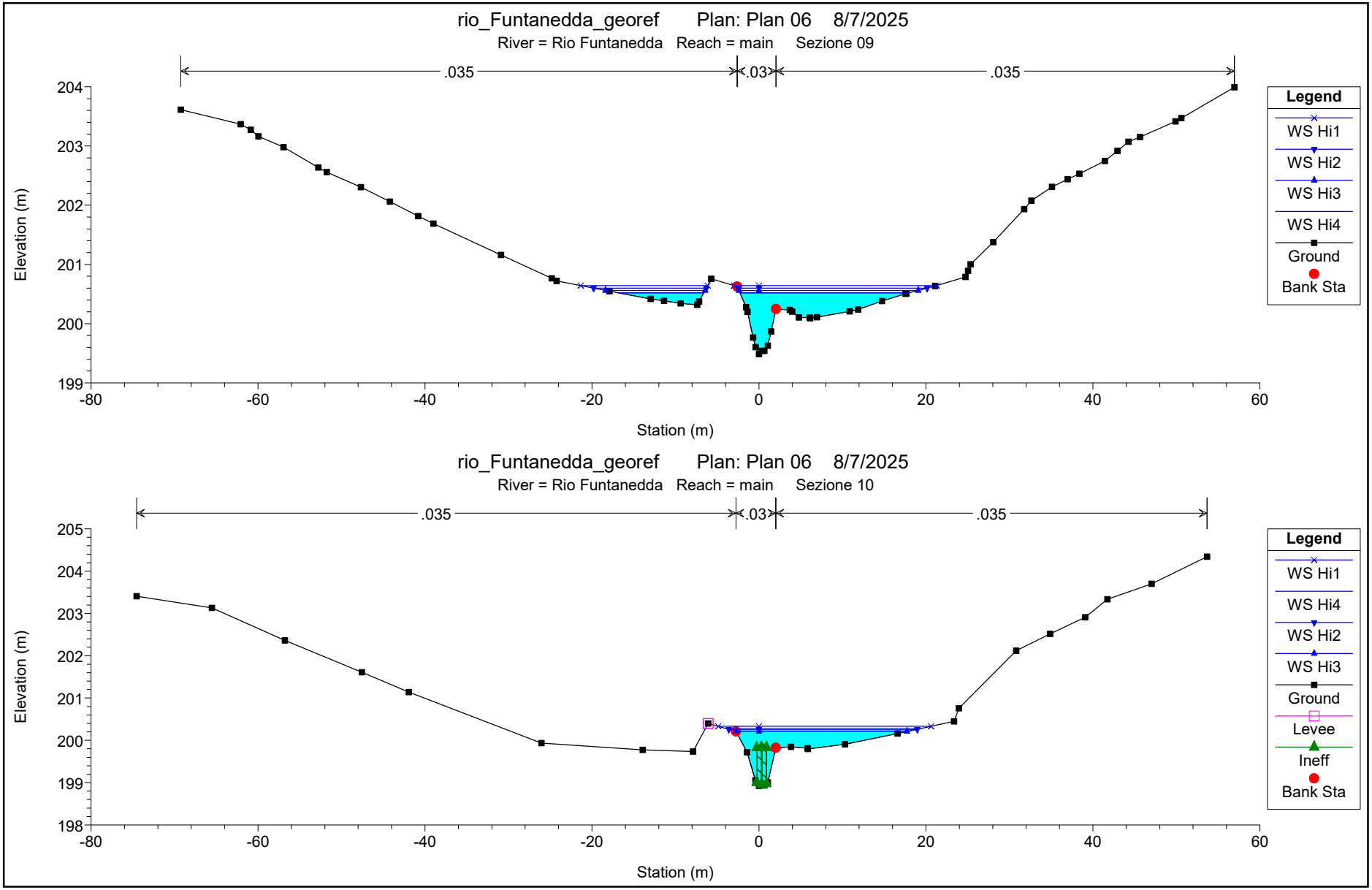

rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main
.035
.03
.035
Elevation (m)
209.5
209.0
208.5
208.0
207.5
207.0
-80
-60
-40
-20
0
20
40
Station (m)
Legend
WS Hi4
WS Hi1
WS Hi2
WS Hi3
Ground
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main
.035
.03
.035
Elevation (m)
209.0
208.5
208.0
207.5
207.0
206.5
206.0
-80
-60
-40
-20
0
20
40
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta

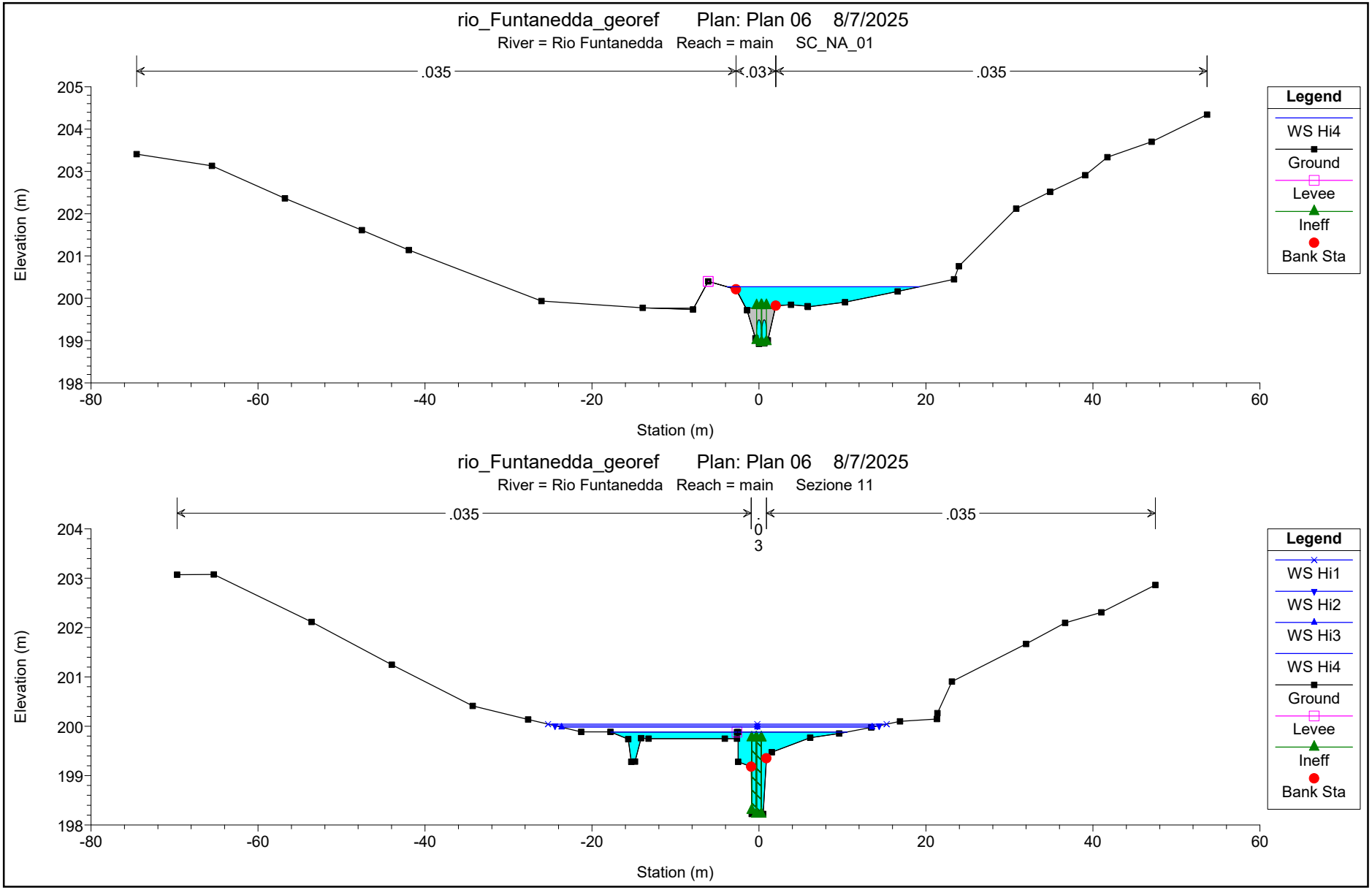

rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 01
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 02
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi3
WS Hi2
WS Hi1
WS Hi4
Ground
Levee
Bank Sta

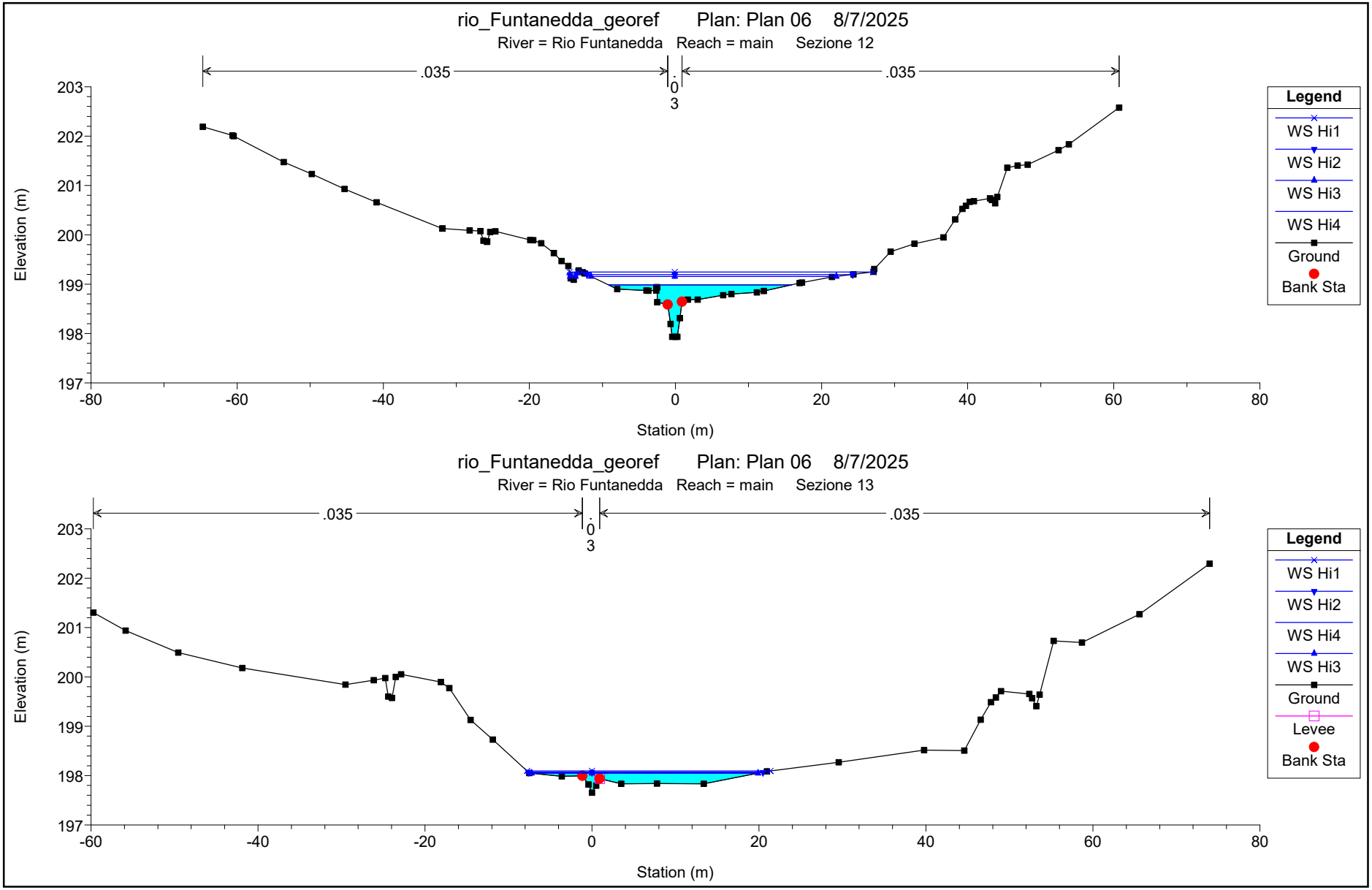

rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 03
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi3
WS Hi4
WS Hi2
WS Hi1
Ground
Levee
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 04
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi2
WS Hi1
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta

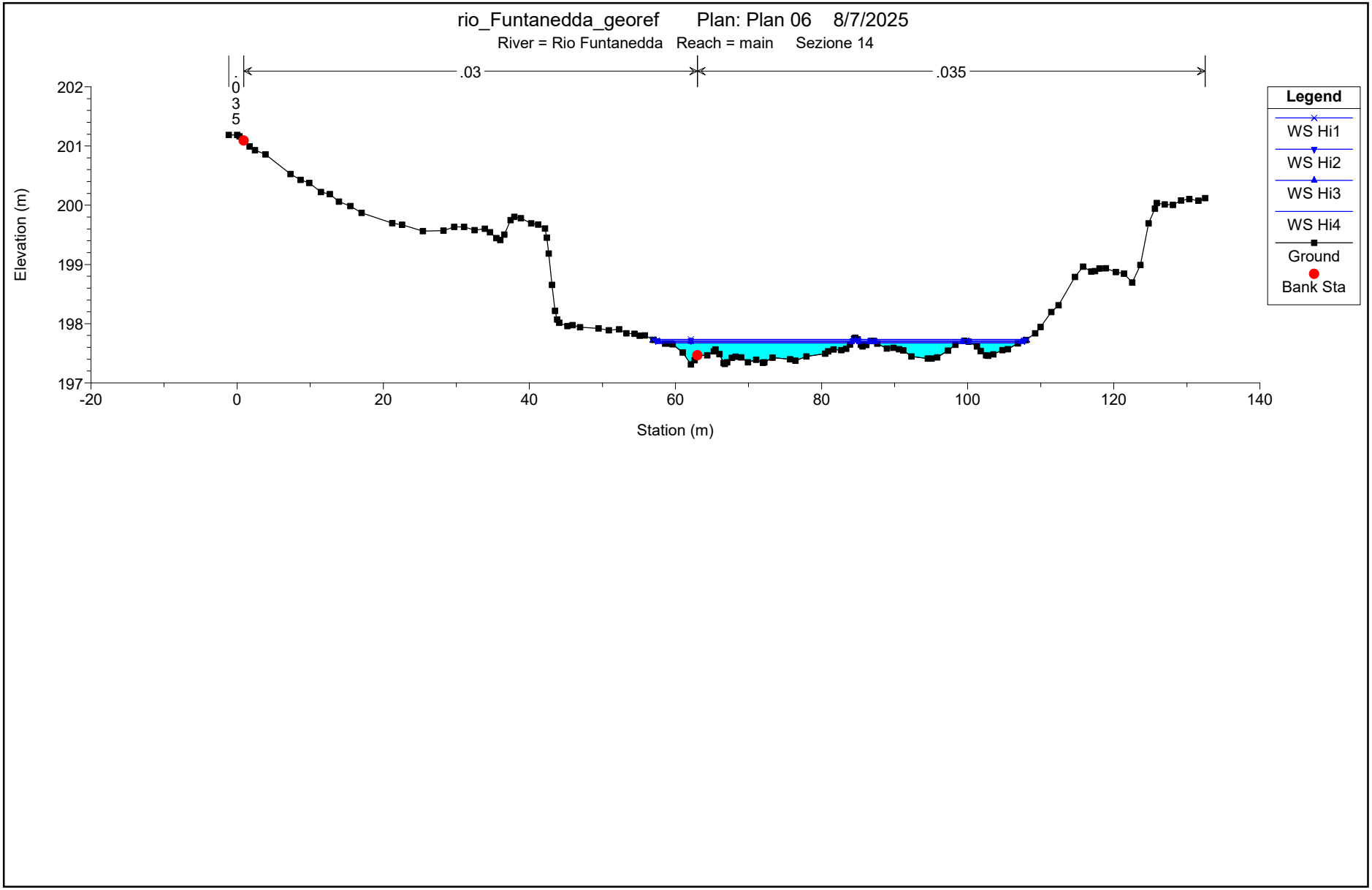

rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 05
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 06
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta


rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 07
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 08
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta


rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 09
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 10
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi4
WS Hi2
WS Hi3
Ground
Levee
Ineff
Bank Sta


rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main SC_NA_01
.035
.03
.035
Elevation (m)
205
204
203
202
201
200
199
198
-80
-60
-40
-20
0
20
40
60
Station (m)
Legend
WS Hi4
Ground
Levee
Ineff
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 11
.035
.035
Elevation (m)
204
203
202
201
200
199
198
-80
-60
-40
-20
0
20
40
60
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Ineff
Bank Sta


rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 12
.035
.035
0.3
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 13
.035
.035
0.3
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi4
WS Hi3
Ground
Levee
Bank Sta


rio_Funtanedda_georef Plan: Plan 06 8/7/2025
River = Rio Funtanedda Reach = main Sezione 14
.035
.03
.035
Elevation (m)
Station (m)
202
201
200
199
198
197
-20
0
20
40
60
80
100
120
140
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta

HEC-RAS Plan: Plan 06 River: Rio Funtanedda Reach: main

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
main	18	PAI_Hi4	15.75	235.24	235.87	235.98	236.24	0.027023	3.25	6.54	21.21	1.53
main	18	PAI_Hi3	17.69	235.24	235.90	236.01	236.29	0.027024	3.37	7.09	21.64	1.54
main	18	PAI_Hi2	19.63	235.24	235.92	236.04	236.34	0.027023	3.48	7.62	22.05	1.56
main	18	PAI_Hi1	22.21	235.24	235.95	236.08	236.40	0.027025	3.62	8.30	22.56	1.57
main	17.800	PAI_Hi4	15.75	233.87	234.46	234.58	234.84	0.034401	3.40	6.29	22.10	1.69
main	17.800	PAI_Hi3	17.69	233.87	234.48	234.62	234.89	0.034285	3.53	6.82	22.60	1.70
main	17.800	PAI_Hi2	19.63	233.87	234.50	234.65	234.94	0.034279	3.64	7.33	23.06	1.72
main	17.800	PAI_Hi1	22.21	233.87	234.53	234.69	235.00	0.034273	3.79	7.99	23.64	1.74
main	17.600	PAI_Hi4	15.75	232.50	233.08	233.17	233.37	0.028720	3.02	7.06	28.54	1.53
main	17.600	PAI_Hi3	17.69	232.50	233.10	233.21	233.41	0.028979	3.14	7.73	31.49	1.55
main	17.600	PAI_Hi2	19.63	232.50	233.12	233.23	233.45	0.029235	3.26	8.41	34.21	1.57
main	17.600	PAI_Hi1	22.21	232.50	233.14	233.28	233.50	0.029615	3.40	9.29	37.48	1.59
main	17.400	PAI_Hi4	15.75	231.12	231.63	231.71	231.89	0.035271	2.86	7.69	43.65	1.62
main	17.400	PAI_Hi3	17.69	231.12	231.65	231.75	231.92	0.035498	2.98	8.46	45.65	1.64
main	17.400	PAI_Hi2	19.63	231.12	231.67	231.77	231.95	0.035560	3.07	9.22	47.53	1.66
main	17.400	PAI_Hi1	22.21	231.12	231.69	231.79	231.99	0.035630	3.19	10.21	49.85	1.67
main	17.200	PAI_Hi4	15.75	229.75	230.14	230.17	230.28	0.033375	2.26	10.19	69.51	1.49
main	17.200	PAI_Hi3	17.69	229.75	230.15	230.19	230.30	0.033530	2.32	11.08	71.40	1.50
main	17.200	PAI_Hi2	19.63	229.75	230.16	230.20	230.32	0.033779	2.38	11.93	73.17	1.51
main	17.200	PAI_Hi1	22.21	229.75	230.17	230.22	230.34	0.034067	2.45	13.01	75.27	1.53
main	17	PAI_Hi4	15.75	228.38	228.90	228.84	228.99	0.010247	1.51	12.20	41.21	0.84
main	17	PAI_Hi3	17.69	228.38	228.93	228.87	229.02	0.010512	1.57	13.17	42.79	0.86
main	17	PAI_Hi2	19.63	228.38	228.95	228.89	229.05	0.010827	1.63	14.08	44.20	0.88
main	17	PAI_Hi1	22.21	228.38	228.89	228.92	229.07	0.022558	2.20	11.74	40.46	1.25
main	16.667	PAI_Hi4	15.75	227.68	227.92	227.92	228.06	0.014093	1.09	10.11	39.21	0.91
main	16.667	PAI_Hi3	17.69	227.68	227.95	227.95	228.09	0.013639	1.20	11.17	42.10	0.92
main	16.667	PAI_Hi2	19.63	227.68	227.97	227.97	228.12	0.013173	1.29	12.27	45.03	0.93
main	16.667	PAI_Hi1	22.21	227.68	228.01	228.01	228.16	0.011743	1.37	14.21	52.49	0.90

HEC-RAS Plan: Plan 06 River: Rio Funtanedda Reach: main (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
main	16.333	PAI_Hi4	15.75	224.61	225.12	225.24	225.65	0.110365	4.60	5.82	44.82	2.78
main	16.333	PAI_Hi3	17.69	224.61	225.13	225.26	225.68	0.120860	4.70	6.20	46.16	2.89
main	16.333	PAI_Hi2	19.63	224.61	225.13	225.27	225.72	0.131796	4.81	6.57	48.01	3.01
main	16.333	PAI_Hi1	22.21	224.61	225.14	225.29	225.85	0.159584	5.29	6.72	48.36	3.31
main	16	PAI_Hi4	15.75	222.86	223.50	223.50	223.65	0.013412	1.78	9.32	30.76	1.01
main	16	PAI_Hi3	17.69	222.86	223.52	223.52	223.68	0.013279	1.85	10.07	32.57	1.02
main	16	PAI_Hi2	19.63	222.86	223.55	223.55	223.72	0.012612	1.90	10.95	33.69	1.01
main	16	PAI_Hi1	22.21	222.86	223.58	223.58	223.76	0.012217	1.97	11.99	34.99	1.01
main	15	PAI_Hi4	15.75	220.25	220.75	220.80	220.92	0.060719	2.59	8.74	70.82	1.87
main	15	PAI_Hi3	17.69	220.25	220.76	220.81	220.94	0.062863	2.72	9.40	71.60	1.91
main	15	PAI_Hi2	19.63	220.25	220.76	220.82	220.98	0.070534	2.92	9.68	71.71	2.03
main	15	PAI_Hi1	22.21	220.25	220.77	220.85	221.02	0.076349	3.10	10.20	71.93	2.13
main	14.750	PAI_Hi4	15.75	218.56	219.29	219.30	219.41	0.015572	2.31	11.57	53.34	1.09
main	14.750	PAI_Hi3	17.69	218.56	219.31	219.32	219.43	0.015275	2.35	12.58	54.04	1.09
main	14.750	PAI_Hi2	19.63	218.56	219.33	219.33	219.45	0.015390	2.41	13.45	54.61	1.10
main	14.750	PAI_Hi1	22.21	218.56	219.34	219.34	219.48	0.016744	2.56	14.19	55.08	1.15
main	14.500	PAI_Hi4	15.75	216.70	217.69	217.85	218.18	0.032368	3.39	6.07	27.96	1.63
main	14.500	PAI_Hi3	17.69	216.70	217.71	217.87	218.23	0.031995	3.49	6.77	29.81	1.64
main	14.500	PAI_Hi2	19.63	216.70	217.74	217.90	218.26	0.031140	3.56	7.49	31.25	1.63
main	14.500	PAI_Hi1	22.21	216.70	217.77	217.92	218.28	0.028332	3.57	8.83	36.88	1.57
main	14.250	PAI_Hi4	15.75	215.18	216.02	216.14	216.41	0.031423	3.97	7.48	36.17	1.62
main	14.250	PAI_Hi3	17.69	215.18	216.04	216.16	216.45	0.032092	4.09	8.17	38.37	1.65
main	14.250	PAI_Hi2	19.63	215.18	216.06	216.19	216.48	0.033012	4.22	8.79	39.79	1.68
main	14.250	PAI_Hi1	22.21	215.18	216.07	216.21	216.54	0.035886	4.46	9.39	41.13	1.75
main	14	PAI_Hi4	15.75	213.49	214.39	214.53	214.81	0.027614	3.96	7.08	27.74	1.53
main	14	PAI_Hi3	17.69	213.49	214.42	214.56	214.84	0.027269	4.03	7.78	28.52	1.53
main	14	PAI_Hi2	19.63	213.49	214.44	214.59	214.87	0.026697	4.10	8.62	31.05	1.53
main	14	PAI_Hi1	22.21	213.49	214.48	214.62	214.90	0.025192	4.12	9.95	36.74	1.49

HEC-RAS Plan: Plan 06 River: Rio Funtanedda Reach: main (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
main	13.500	PAI_Hi4	15.75	212.79	214.25	214.27	214.41	0.008229	2.42	11.34	36.83	0.69
main	13.500	PAI_Hi3	17.69	212.79	214.27	214.30	214.45	0.009439	2.61	11.86	38.88	0.74
main	13.500	PAI_Hi2	19.63	212.79	214.33	214.33	214.48	0.007747	2.43	14.25	44.27	0.68
main	13.500	PAI_Hi1	22.21	212.79	214.34	214.37	214.52	0.008828	2.62	15.00	45.78	0.73
main	13	PAI_Hi4	15.75	212.08	213.88	213.39	213.91	0.000598	0.87	26.21	45.50	0.26
main	13	PAI_Hi3	17.69	212.08	213.90	213.41	213.93	0.000688	0.95	27.15	46.07	0.28
main	13	PAI_Hi2	19.63	212.08	213.92	213.47	213.96	0.000775	1.02	28.12	47.48	0.30
main	13	PAI_Hi1	22.21	212.08	213.95	213.49	213.99	0.000888	1.11	29.36	48.91	0.32
main	12.4	PAI_Hi4	15.75	213.47	213.80		213.84	0.006108	1.09	18.52	89.34	0.67
main	12.4	PAI_Hi3	17.69	213.47	213.81		213.86	0.006803	1.18	19.60	91.77	0.71
main	12.4	PAI_Hi2	19.63	213.47	213.83		213.88	0.006813	1.23	21.13	95.48	0.72
main	12.4	PAI_Hi1	22.21	213.47	213.85		213.90	0.007029	1.30	23.07	97.82	0.74
main	12.2	PAI_Hi4	15.75	213.36	213.65	213.65	213.73	0.018107	1.74	13.51	93.09	1.13
main	12.2	PAI_Hi3	17.69	213.36	213.67	213.67	213.74	0.014866	1.68	15.77	97.56	1.04
main	12.2	PAI_Hi2	19.63	213.36	213.68	213.68	213.76	0.015408	1.75	16.85	98.55	1.07
main	12.2	PAI_Hi1	22.21	213.36	213.70	213.70	213.78	0.015548	1.82	18.24	99.89	1.08
main	11.850*	PAI_Hi4	15.75	211.71	212.62	212.77	213.12	0.027187	3.62	6.01	19.55	1.49
main	11.850*	PAI_Hi3	17.69	211.71	212.64	212.81	213.18	0.028990	3.79	6.45	20.01	1.54
main	11.850*	PAI_Hi2	19.63	211.71	212.67	212.84	213.19	0.027548	3.77	7.17	20.63	1.51
main	11.850*	PAI_Hi1	22.21	211.71	212.72	212.88	213.22	0.026146	3.77	8.06	21.26	1.48
main	11.5	PAI_Hi4	15.75	210.07	212.05	212.05	212.12	0.002581	1.30	14.09	18.91	0.33
main	11.5	PAI_Hi3	17.69	210.07	212.05	212.05	212.13	0.003256	1.46	14.09	18.91	0.37
main	11.5	PAI_Hi2	19.63	210.07	212.05	212.05	212.15	0.004010	1.62	14.09	18.91	0.41
main	11.5	PAI_Hi1	22.21	210.07	212.05	212.05	212.18	0.005133	1.83	14.09	18.91	0.47
main	11.167	PAI_Hi4	15.75	209.29	210.83	211.05	211.74	0.036159	4.64	4.94	21.75	1.54
main	11.167	PAI_Hi3	17.69	209.29	210.87	211.10	211.71	0.034340	4.62	5.83	23.47	1.51
main	11.167	PAI_Hi2	19.63	209.29	210.90	211.11	211.69	0.032391	4.58	6.70	24.83	1.48
main	11.167	PAI_Hi1	22.21	209.29	210.95	211.15	211.66	0.029542	4.50	7.84	26.08	1.42

HEC-RAS Plan: Plan 06 River: Rio Funtanedda Reach: main (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
main	11	PAI_Hi4	15.75	208.90	210.44	210.61	211.03	0.021006	3.86	6.54	40.98	1.29
main	11	PAI_Hi3	17.69	208.90	210.46	210.62	211.04	0.020630	3.91	7.73	42.12	1.29
main	11	PAI_Hi2	19.63	208.90	210.49	210.64	211.05	0.020386	3.95	8.78	43.09	1.28
main	11	PAI_Hi1	22.21	208.90	210.52	210.67	211.06	0.020280	4.02	10.03	44.22	1.29
main	10.667	PAI_Hi4	15.75	208.53	209.76	209.95	210.44	0.039322	4.36	5.53	23.72	1.75
main	10.667	PAI_Hi3	17.69	208.53	209.78	209.98	210.46	0.038131	4.41	6.19	25.19	1.73
main	10.667	PAI_Hi2	19.63	208.53	209.81	210.01	210.48	0.036942	4.46	6.86	26.71	1.71
main	10.667	PAI_Hi1	22.21	208.53	209.84	210.03	210.50	0.035467	4.50	7.84	35.26	1.69
main	10	PAI_Hi4	15.75	207.81	208.89	208.89	208.91	0.001248	0.71	24.69	56.72	0.32
main	10	PAI_Hi3	17.69	207.81	208.89	208.89	208.92	0.001574	0.80	24.69	56.72	0.36
main	10	PAI_Hi2	19.63	207.81	208.89	208.89	208.92	0.001938	0.89	24.70	56.72	0.40
main	10	PAI_Hi1	22.21	207.81	208.89	208.89	208.93	0.002481	1.01	24.70	56.72	0.45
main	9	PAI_Hi4	17.93	207.09	207.44	207.62	208.51	0.320991	6.09	4.40	39.96	4.53
main	9	PAI_Hi3	20.26	207.09	207.46	207.64	208.45	0.275209	5.86	5.03	40.50	4.23
main	9	PAI_Hi2	22.58	207.09	207.47	207.66	208.40	0.229183	5.62	5.73	41.36	3.91
main	9	PAI_Hi1	25.66	207.09	207.50	207.68	208.33	0.173750	5.28	6.82	43.07	3.47
main	8.5000	PAI_Hi4	17.93	206.04	206.80	206.84	206.98	0.016478	2.64	11.11	45.61	1.18
main	8.5000	PAI_Hi3	20.26	206.04	206.82	206.86	207.01	0.016078	2.69	12.25	46.95	1.17
main	8.5000	PAI_Hi2	22.58	206.04	206.85	206.89	207.04	0.015774	2.74	13.34	48.20	1.17
main	8.5000	PAI_Hi1	25.66	206.04	206.88	206.92	207.08	0.015574	2.81	14.71	49.77	1.17
main	8	PAI_Hi4	17.93	204.90	205.92	205.92	206.05	0.011228	2.32	12.69	44.43	0.88
main	8	PAI_Hi3	20.26	204.90	205.86	205.95	206.31	0.037469	4.01	7.75	26.57	1.58
main	8	PAI_Hi2	22.58	204.90	205.97	205.97	206.12	0.011574	2.46	14.91	47.56	0.90
main	8	PAI_Hi1	25.66	204.90	206.00	206.00	206.16	0.011515	2.52	16.44	49.60	0.91
main	7.6250	PAI_Hi4	17.93	204.03	205.60	205.60	205.64	0.002020	1.29	23.60	58.09	0.36
main	7.6250	PAI_Hi3	20.26	204.03	205.60	205.60	205.65	0.002578	1.46	23.60	58.09	0.40
main	7.6250	PAI_Hi2	22.58	204.03	205.60	205.60	205.66	0.003203	1.63	23.60	58.09	0.45
main	7.6250	PAI_Hi1	25.66	204.03	205.60	205.60	205.68	0.004135	1.85	23.61	58.09	0.51

HEC-RAS Plan: Plan 06 River: Rio Funtanedda Reach: main (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
main	7.2500	PAI_Hi4	17.93	203.16	204.84	204.84	205.60	0.017963	3.87	4.63	3.02	1.00
main	7.2500	PAI_Hi3	20.26	203.16	205.11	205.22	205.49	0.009592	3.01	9.32	21.42	0.72
main	7.2500	PAI_Hi2	22.58	203.16	205.22	205.28	205.51	0.007448	2.75	11.81	24.09	0.64
main	7.2500	PAI_Hi1	25.66	203.16	205.36	205.34	205.38	0.000642	0.85	47.19	76.18	0.19
main	7	PAI_Hi4	17.93	202.59	205.20	205.20	205.28	0.005242	1.75	19.92	90.06	0.47
main	7	PAI_Hi3	20.26	202.59	205.22	205.22	205.30	0.005612	1.83	21.37	90.81	0.49
main	7	PAI_Hi2	22.58	202.59	205.23	205.23	205.32	0.005907	1.89	22.80	91.53	0.50
main	7	PAI_Hi1	25.66	202.59	205.25	205.25	205.34	0.006430	1.99	24.33	92.31	0.52
main	6	PAI_Hi4	17.93	202.45	204.89	204.98	205.20	0.017279	2.96	12.41	103.35	0.85
main	6	PAI_Hi3	20.26	202.45	204.90	204.99	205.22	0.018532	3.09	13.63	104.07	0.88
main	6	PAI_Hi2	22.58	202.45	204.91	205.01	205.23	0.019383	3.18	14.85	104.79	0.90
main	6	PAI_Hi1	25.66	202.45	204.93	205.02	205.25	0.020436	3.29	16.34	105.66	0.92
main	5	PAI_Hi4	17.93	202.16	203.09	203.37	204.74	0.088699	7.06	4.44	21.32	2.77
main	5	PAI_Hi3	20.26	202.16	203.12	203.39	204.75	0.086730	7.18	5.11	24.36	2.76
main	5	PAI_Hi2	22.58	202.16	203.14	203.42	204.76	0.085237	7.30	5.77	27.20	2.75
main	5	PAI_Hi1	25.66	202.16	203.17	203.45	204.77	0.084071	7.44	6.61	30.36	2.75
main	4.5000	PAI_Hi4	17.93	201.39	202.19	202.38	202.80	0.048464	4.40	5.87	21.82	2.00
main	4.5000	PAI_Hi3	20.26	201.39	202.22	202.42	202.85	0.047638	4.53	6.53	23.26	2.00
main	4.5000	PAI_Hi2	22.58	201.39	202.25	202.45	202.90	0.046719	4.64	7.19	24.83	2.00
main	4.5000	PAI_Hi1	25.66	201.39	202.28	202.49	202.95	0.045497	4.77	8.07	26.58	1.99
main	4	PAI_Hi4	17.93	200.61	201.19	201.32	201.59	0.042180	3.23	6.47	20.61	1.76
main	4	PAI_Hi3	20.26	200.61	201.22	201.36	201.65	0.042596	3.39	7.07	21.56	1.79
main	4	PAI_Hi2	22.58	200.61	201.24	201.39	201.70	0.043109	3.55	7.65	22.60	1.81
main	4	PAI_Hi1	25.66	200.61	201.28	201.43	201.76	0.043751	3.70	8.42	23.93	1.84
main	3.3333	PAI_Hi4	17.93	199.49	200.63	200.64	200.80	0.009445	2.39	11.88	38.12	0.91
main	3.3333	PAI_Hi3	20.26	199.49	200.66	200.68	200.84	0.009648	2.48	13.03	40.71	0.93
main	3.3333	PAI_Hi2	22.58	199.49	200.68	200.71	200.87	0.009839	2.57	14.15	43.04	0.95
main	3.3333	PAI_Hi1	25.66	199.49	200.72	200.74	200.92	0.010066	2.67	15.59	45.89	0.96

HEC-RAS Plan: Plan 06 River: Rio Funtanedda Reach: main (Continued)

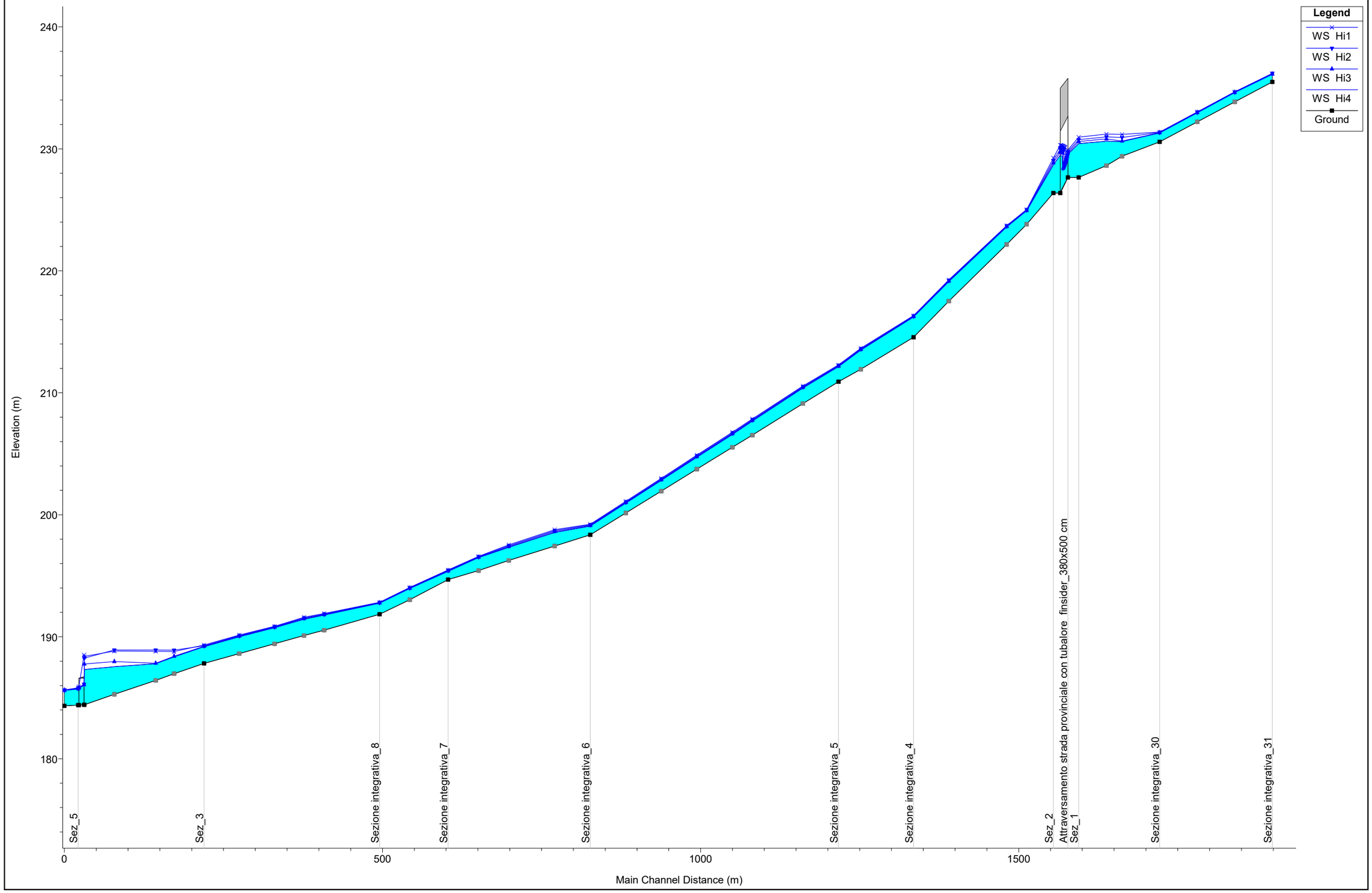
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
main	3	PAI_Hi4	17.93	198.92	200.31	200.35	200.56	0.013325	2.75	9.12	24.42	1.06
main	3	PAI_Hi3	20.26	198.92	200.36	200.40	200.61	0.012286	2.76	10.37	26.45	1.03
main	3	PAI_Hi2	22.58	198.92	200.40	200.40	200.65	0.011864	2.81	11.46	28.09	1.02
main	3	PAI_Hi1	25.66	198.92	200.40	200.40	200.47	0.003760	1.59	24.11	54.36	0.58
main	2.5		Culvert									
main	2	PAI_Hi4	17.93	198.22	200.03	200.03	200.16	0.016206	2.24	11.49	39.90	0.83
main	2	PAI_Hi3	20.26	198.22	200.06	200.06	200.20	0.016336	2.30	12.51	41.22	0.84
main	2	PAI_Hi2	22.58	198.22	200.08	200.08	200.23	0.016509	2.35	13.47	42.44	0.85
main	2	PAI_Hi1	25.66	198.22	200.10	200.10	200.27	0.017491	2.47	14.46	43.69	0.88
main	1.5000	PAI_Hi4	17.93	197.94	199.23	199.23	199.38	0.007893	2.60	13.21	39.78	0.80
main	1.5000	PAI_Hi3	20.26	197.94	199.27	199.27	199.41	0.007739	2.63	14.65	41.44	0.80
main	1.5000	PAI_Hi2	22.58	197.94	199.30	199.30	199.45	0.007433	2.63	16.07	41.77	0.79
main	1.5000	PAI_Hi1	25.66	197.94	199.32	199.32	199.49	0.007955	2.76	17.11	41.91	0.82
main	1	PAI_Hi4	17.93	197.65	198.08	198.27	198.83	0.144357	5.05	4.94	28.69	3.14
main	1	PAI_Hi3	20.26	197.65	198.10	198.30	198.88	0.140207	5.20	5.47	29.67	3.13
main	1	PAI_Hi2	22.58	197.65	198.12	198.32	198.90	0.132350	5.29	6.06	30.70	3.08
main	1	PAI_Hi1	25.66	197.65	198.15	198.35	198.93	0.121540	5.35	6.87	32.08	2.99
main	0.5	PAI_Hi4	17.93	197.31	197.73	197.75	197.87	0.025807	1.60	10.53	50.39	1.26
main	0.5	PAI_Hi3	20.26	197.31	197.74	197.77	197.91	0.026697	1.68	11.29	51.00	1.29
main	0.5	PAI_Hi2	22.58	197.31	197.76	197.79	197.93	0.027313	1.77	12.30	51.97	1.32
main	0.5	PAI_Hi1	25.66	197.31	197.78	197.82	197.97	0.028141	1.86	13.21	52.44	1.35

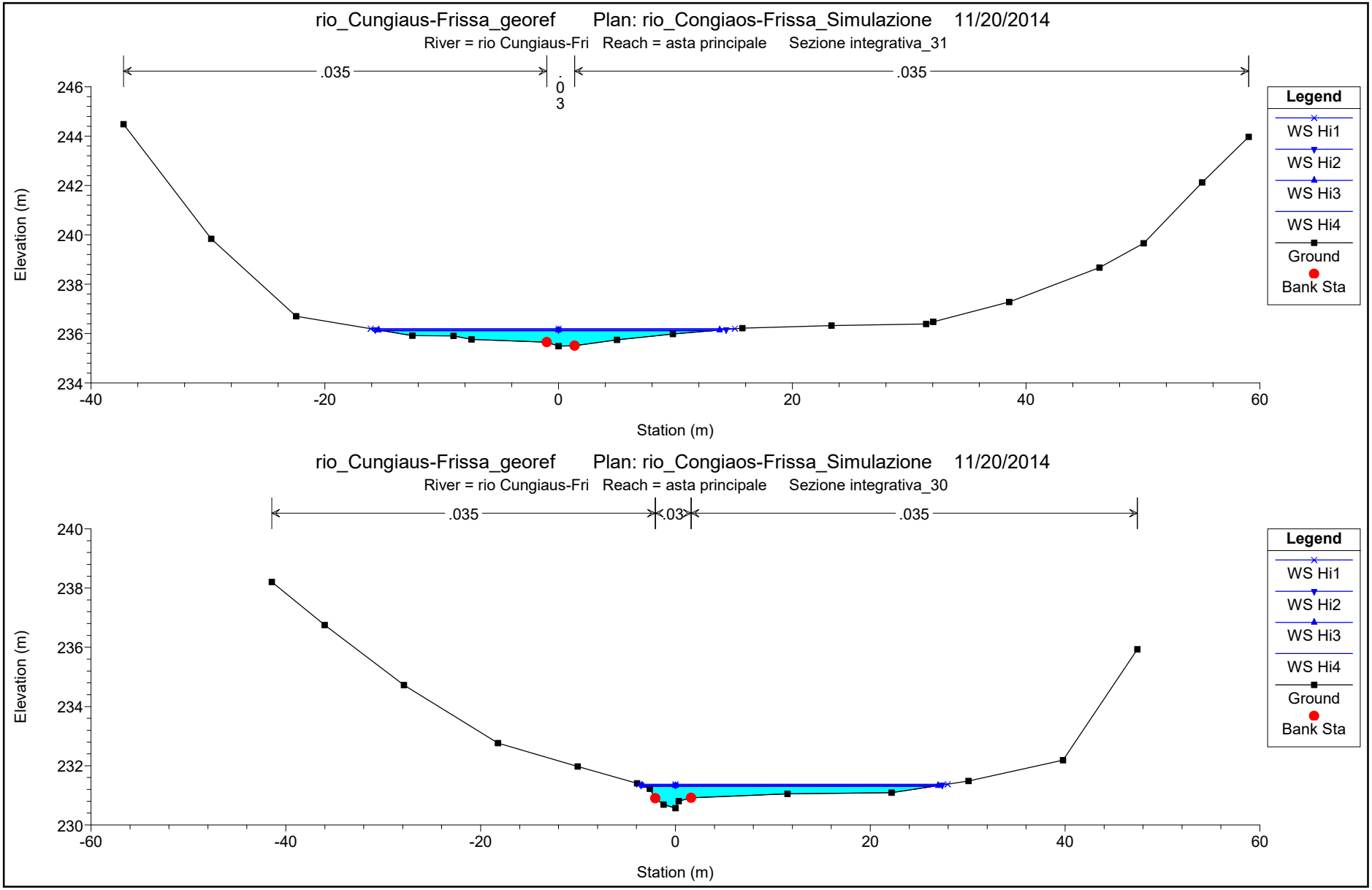
Rio Cungiaus Frissa

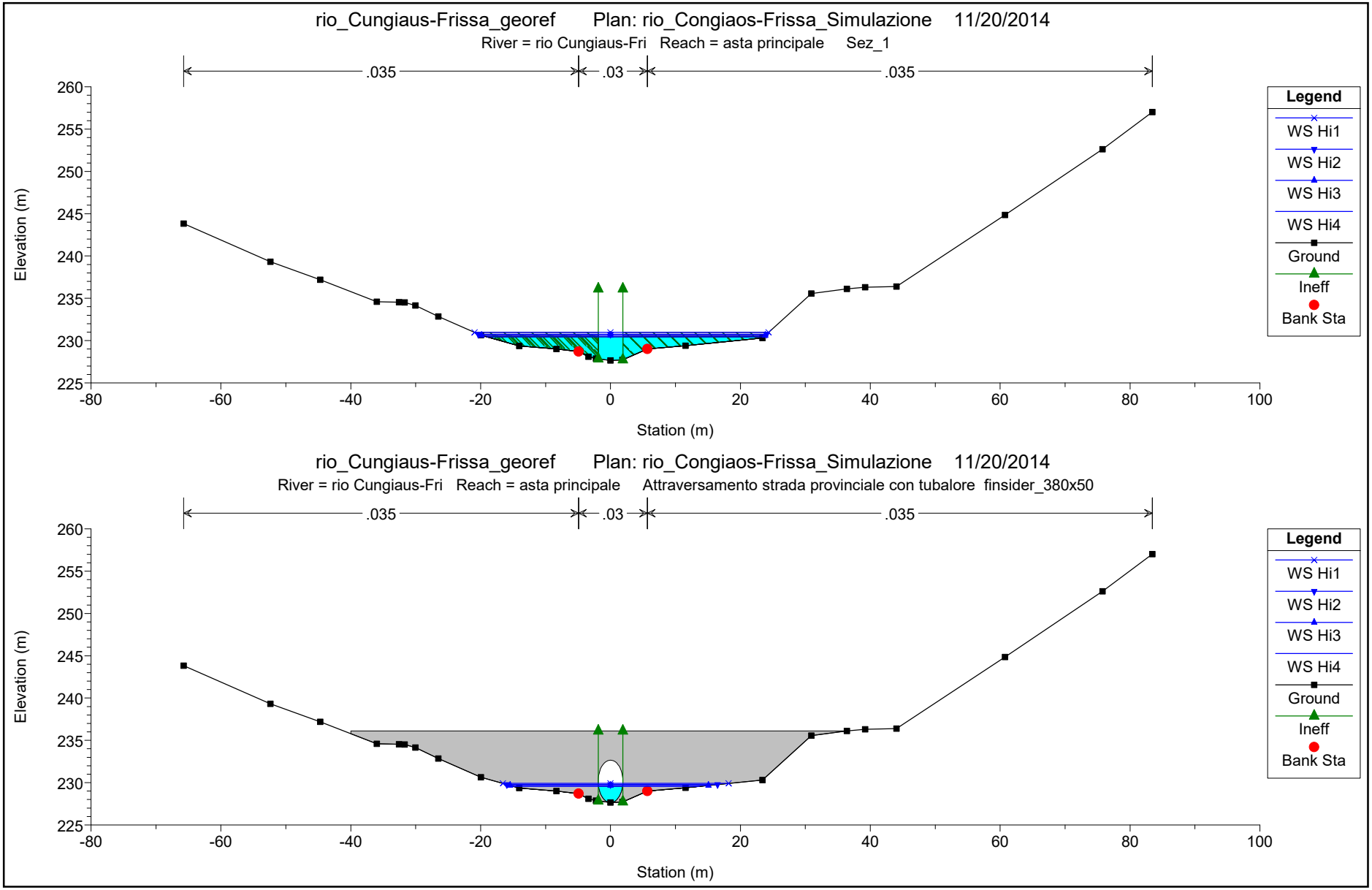
Profilo – Sezioni – Tabelle

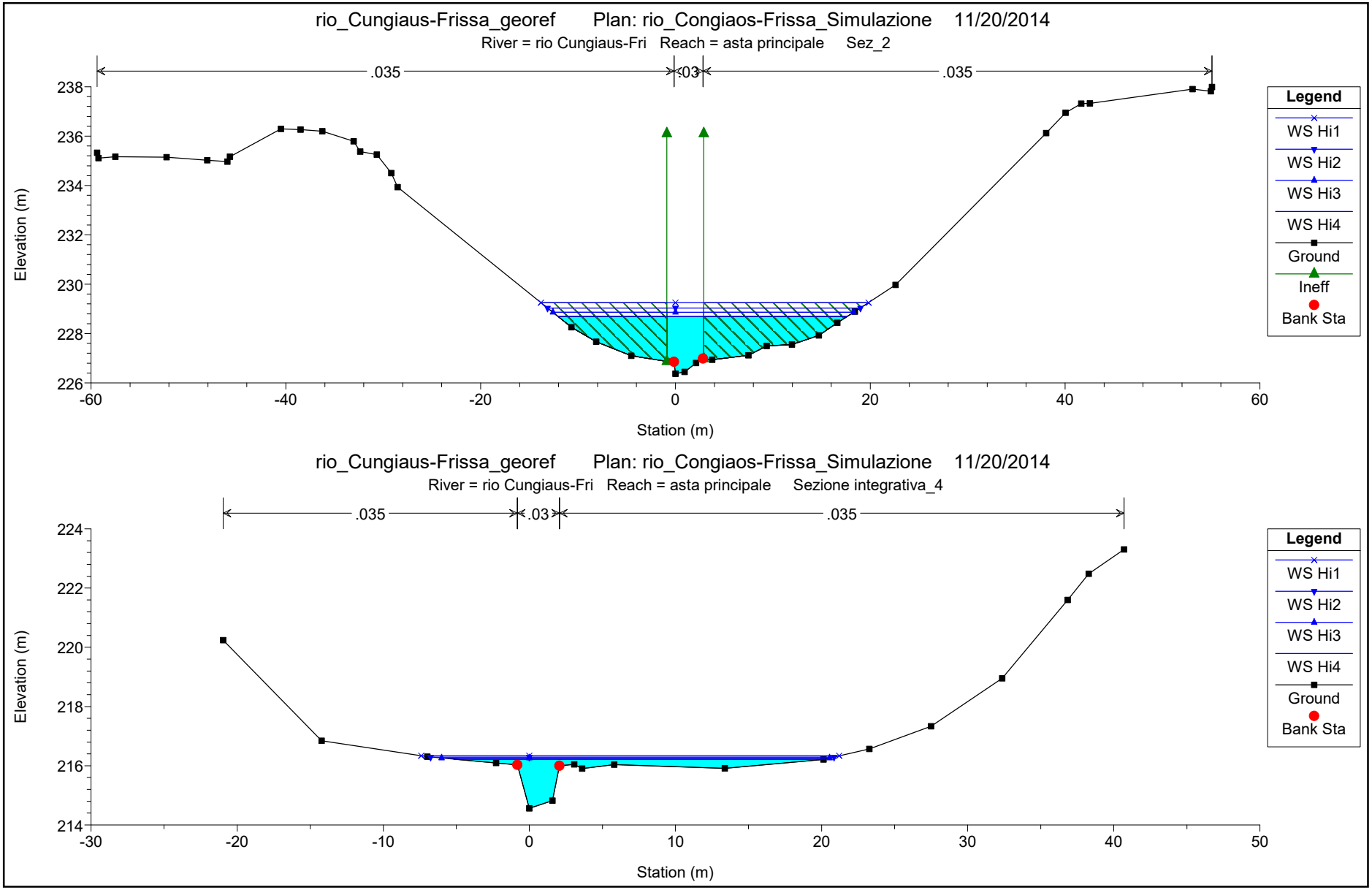
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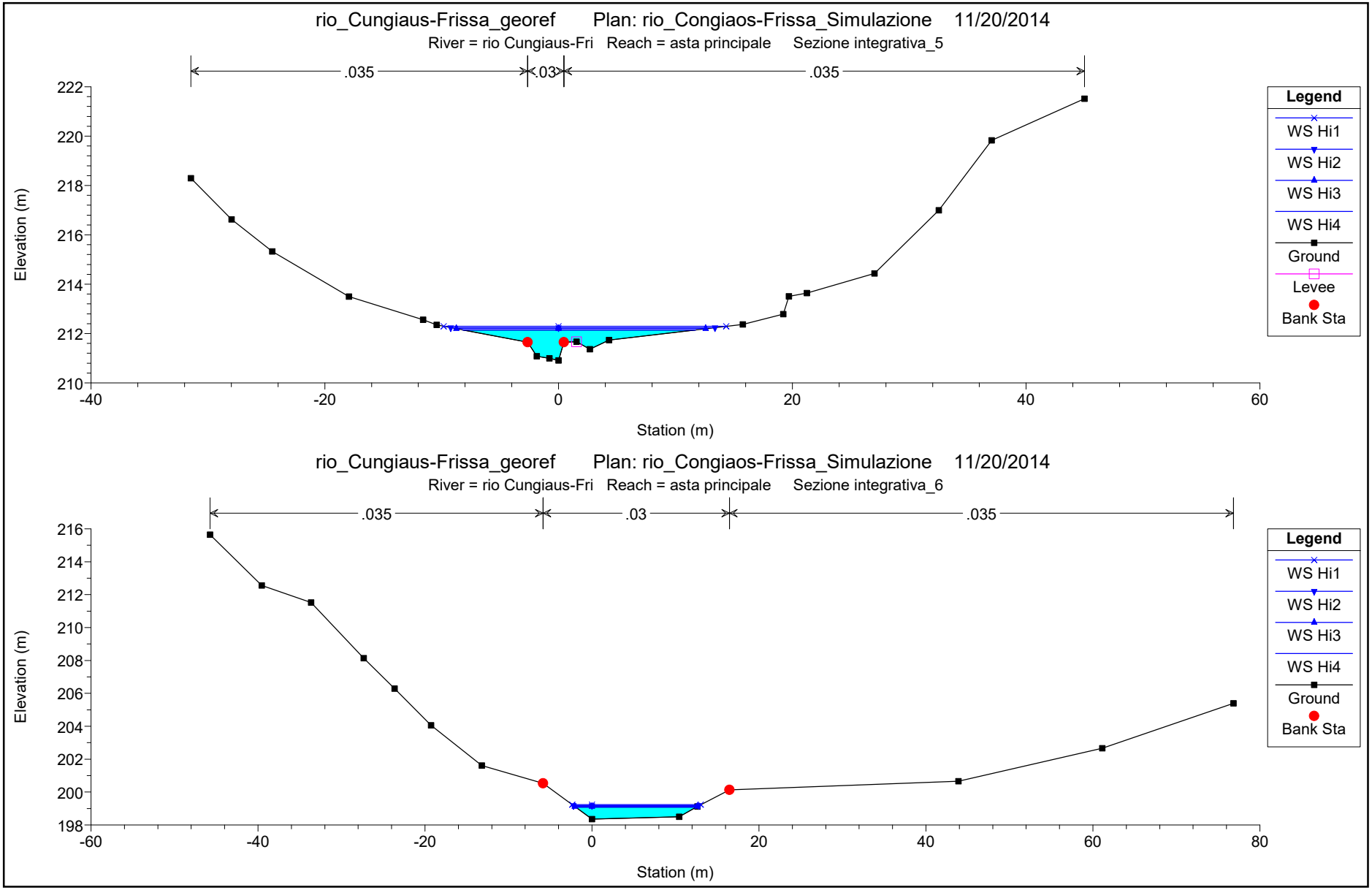
rio_Cungiaus-Frissa_georef Plan: rio_Congiaos-Frissa_Simulazione 11/20/2014

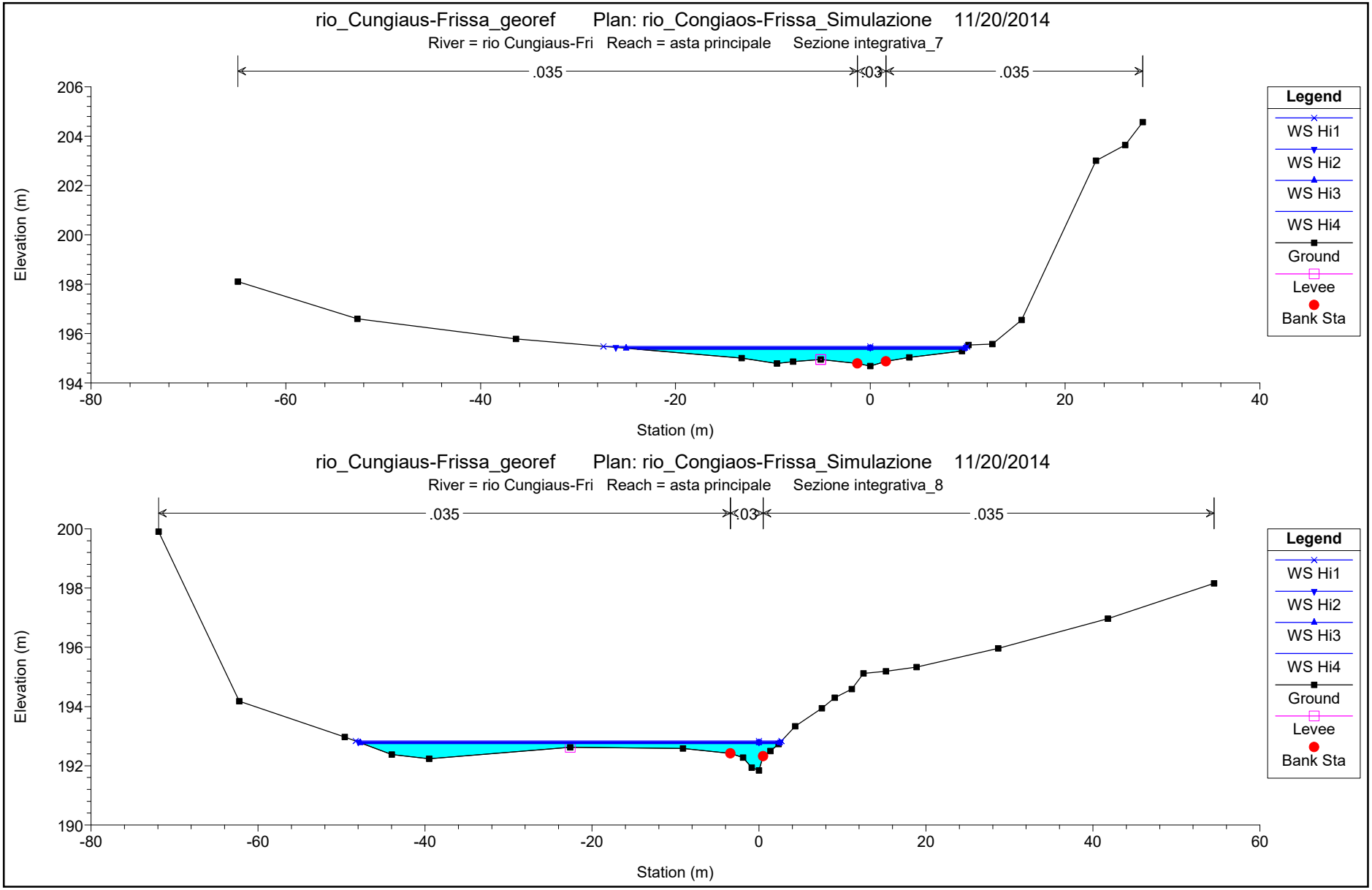


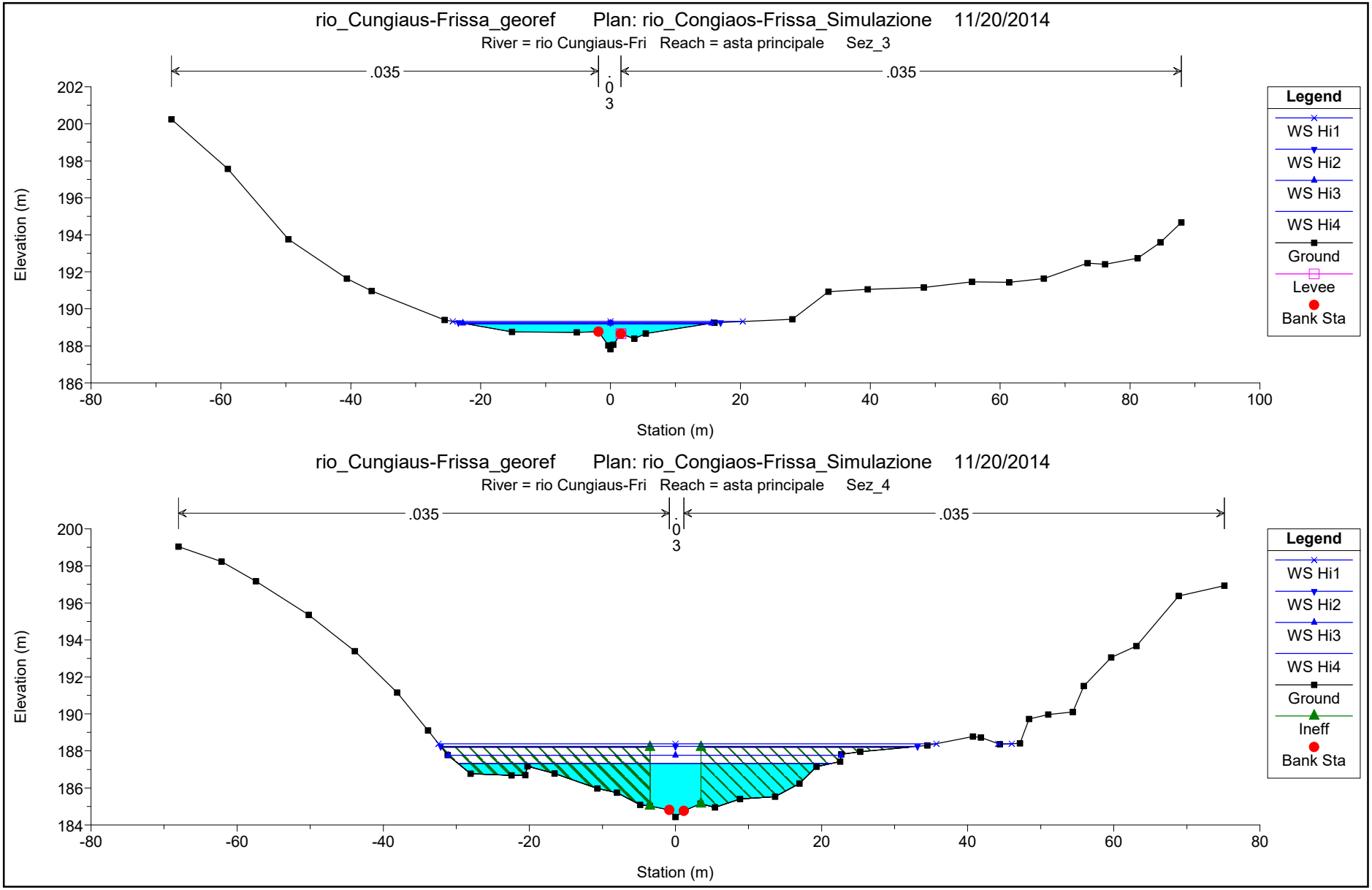

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River = rio Cungiaus-Fri Reach = asta principale Sezione integrativa_31
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.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta
rio_Cungiaus-Frissa_georef Plan: rio_Congiaos-Frissa_Simulazione 11/20/2014
River = rio Cungiaus-Fri Reach = asta principale Sezione integrativa_30
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta

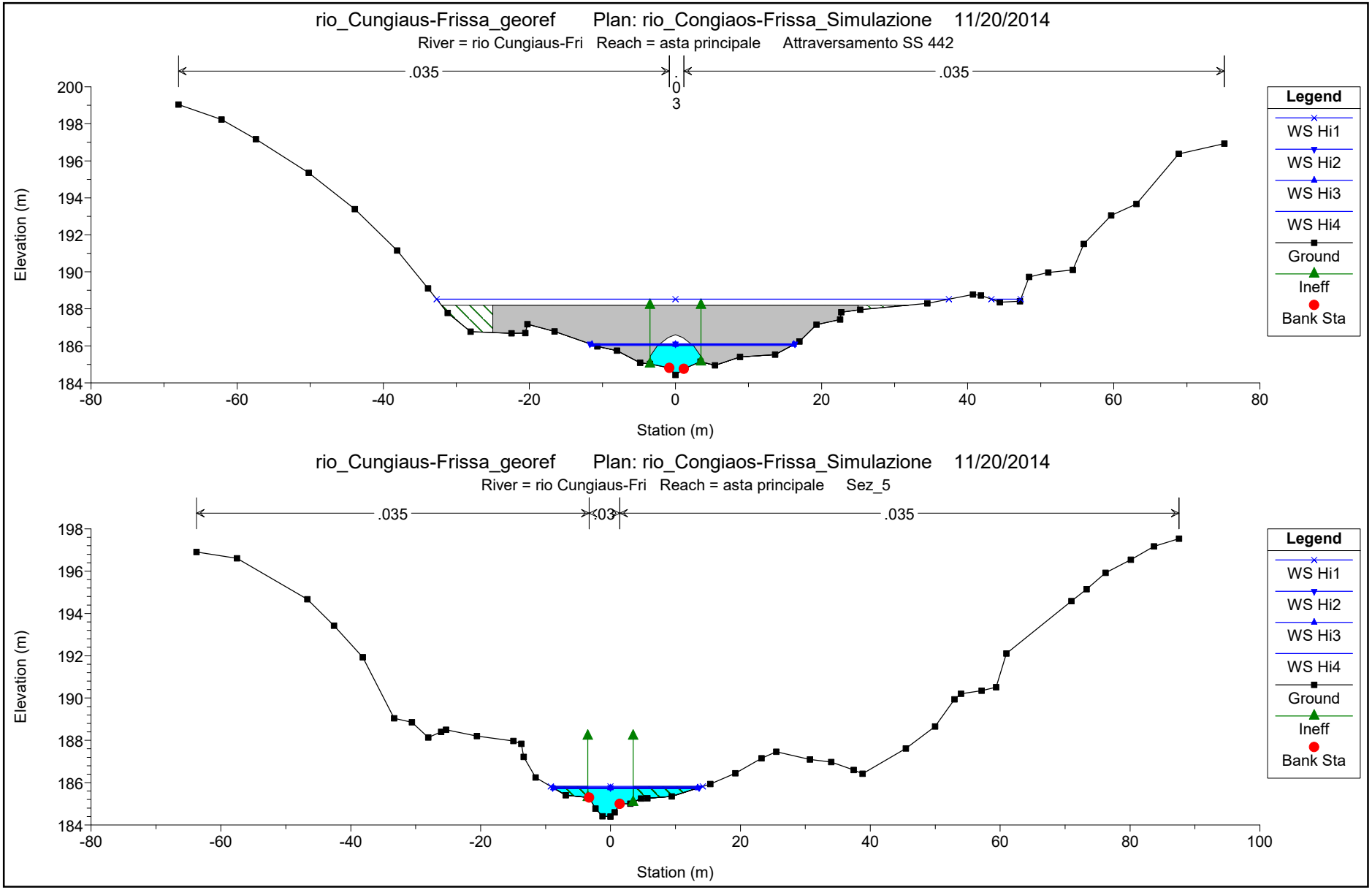

rio_Cungiaus-Frissa_georef Plan: rio_Congiaos-Frissa_Simulazione 11/20/2014
River = rio Cungiaus-Fri Reach = asta principale Sez_1
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Ineff
Bank Sta
rio_Cungiaus-Frissa_georef Plan: rio_Congiaos-Frissa_Simulazione 11/20/2014
River = rio Cungiaus-Fri Reach = asta principale Attraversamento strada provinciale con tubalore finsider_380x50
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Ineff
Bank Sta

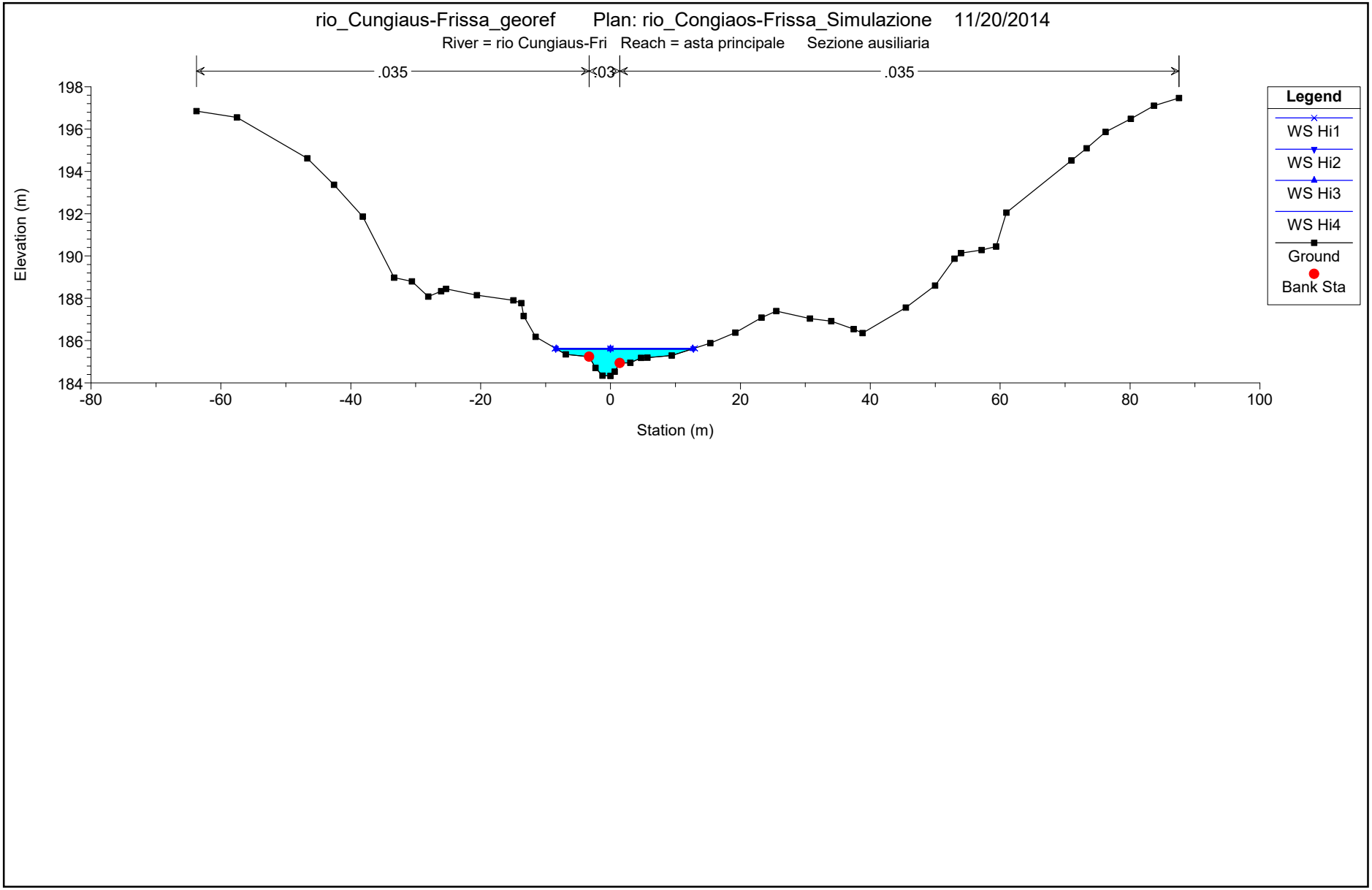

rio_Cungiaus-Frissa_georef Plan: rio_Congiaos-Frissa_Simulazione 11/20/2014
River = rio Cungiaus-Fri Reach = asta principale Sez_2
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Ineff
Bank Sta
rio_Cungiaus-Frissa_georef Plan: rio_Congiaos-Frissa_Simulazione 11/20/2014
River = rio Cungiaus-Fri Reach = asta principale Sezione integrativa_4
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta


rio_Cungiaus-Frissa_georef Plan: rio_Congiaos-Frissa_Simulazione 11/20/2014
River = rio Cungiaus-Fri Reach = asta principale Sezione integrativa_5
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta
rio_Cungiaus-Frissa_georef Plan: rio_Congiaos-Frissa_Simulazione 11/20/2014
River = rio Cungiaus-Fri Reach = asta principale Sezione integrativa_6
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta


rio_Cungiaus-Frissa_georef Plan: rio_Congiaos-Frissa_Simulazione 11/20/2014
River = rio Cungiaus-Fri Reach = asta principale Sezione integrativa_7
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta
rio_Cungiaus-Frissa_georef Plan: rio_Congiaos-Frissa_Simulazione 11/20/2014
River = rio Cungiaus-Fri Reach = asta principale Sezione integrativa_8
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta


rio_Cungiaus-Frissa_georef Plan: rio_Congiaos-Frissa_Simulazione 11/20/2014
River = rio Cungiaus-Fri Reach = asta principale Sez_3
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Levee
Bank Sta
rio_Cungiaus-Frissa_georef Plan: rio_Congiaos-Frissa_Simulazione 11/20/2014
River = rio Cungiaus-Fri Reach = asta principale Sez_4
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Ineff
Bank Sta


rio_Cungiaus-Frissa_georef Plan: rio_Congiaos-Frissa_Simulazione 11/20/2014
River = rio Cungiaus-Fri Reach = asta principale Attraversamento SS 442
.035
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Ineff
Bank Sta
rio_Cungiaus-Frissa_georef Plan: rio_Congiaos-Frissa_Simulazione 11/20/2014
River = rio Cungiaus-Fri Reach = asta principale Sez_5
.035
.035
Elevation (m)
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Ineff
Bank Sta


rio_Cungiaus-Frissa_georef Plan: rio_Congiaos-Frissa_Simulazione 11/20/2014
River = rio Cungiaus-Fri Reach = asta principale Sezione ausiliaria
.035
.03
.035
Elevation (m)
198
196
194
192
190
188
186
184
-80
-60
-40
-20
0
20
40
60
80
100
Station (m)
Legend
WS Hi1
WS Hi2
WS Hi3
WS Hi4
Ground
Bank Sta

HEC-RAS Plan: 01 River: rio Cungiaus-Fri Reach: asta principale

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
asta principale	12	Hi4	19.36	235.49	236.12	236.21	236.44	0.025024	3.69	8.70	28.23	1.53
asta principale	12	Hi3	21.58	235.49	236.14	236.22	236.48	0.025013	3.79	9.43	29.17	1.55
asta principale	12	Hi2	23.78	235.49	236.16	236.27	236.52	0.025040	3.89	10.12	30.04	1.56
asta principale	12	Hi1	26.74	235.49	236.19	236.32	236.57	0.025018	4.01	11.04	31.15	1.57
asta principale	11	Hi4	19.36	230.57	231.31	231.42	231.68	0.027837	3.68	8.39	29.74	1.58
asta principale	11	Hi3	21.58	230.57	231.33	231.45	231.72	0.027869	3.78	9.06	30.36	1.59
asta principale	11	Hi2	23.78	230.57	231.35	231.47	231.76	0.027865	3.87	9.71	30.94	1.60
asta principale	11	Hi1	26.74	230.57	231.38	231.51	231.81	0.027932	3.99	10.55	31.68	1.61
asta principale	10	Hi4	19.36	227.66	230.44	229.09	230.62	0.000833	1.87	10.35	42.65	0.36
asta principale	10	Hi3	21.58	227.66	230.60	229.20	230.80	0.000852	1.97	10.97	43.65	0.37
asta principale	10	Hi2	23.78	227.66	230.76	229.30	230.97	0.000870	2.06	11.55	44.38	0.38
asta principale	10	Hi1	26.74	227.66	230.96	229.43	231.20	0.000888	2.17	12.32	45.26	0.38
asta principale	9.5		Culvert									
asta principale	9	Hi4	33.82	226.37	228.69	228.69	229.69	0.008448	4.54	7.65	29.68	1.01
asta principale	9	Hi3	38.40	226.37	228.86	228.86	229.96	0.008306	4.75	8.30	30.88	1.01
asta principale	9	Hi2	42.98	226.37	229.04	229.04	230.22	0.008056	4.92	8.96	32.11	1.01
asta principale	9	Hi1	49.04	226.37	229.26	229.26	230.54	0.007801	5.13	9.80	33.65	1.01
asta principale	8	Hi4	33.82	214.56	216.22	216.57	217.92	0.055631	6.70	7.86	25.39	1.92
asta principale	8	Hi3	38.40	214.56	216.26	216.62	217.97	0.056290	6.87	8.83	26.56	1.94
asta principale	8	Hi2	42.98	214.56	216.29	216.66	218.01	0.056880	7.03	9.76	27.61	1.96
asta principale	8	Hi1	49.04	214.56	216.33	216.71	218.06	0.057537	7.22	10.91	28.61	1.98
asta principale	7	Hi4	33.82	210.91	212.15	212.52	213.50	0.044667	6.31	8.25	19.91	2.00
asta principale	7	Hi3	38.40	210.91	212.19	212.57	213.57	0.044308	6.48	9.25	21.32	2.01
asta principale	7	Hi2	42.98	210.91	212.24	212.62	213.64	0.043989	6.64	10.23	22.62	2.02
asta principale	7	Hi1	49.04	210.91	212.29	212.68	213.73	0.043850	6.84	11.46	24.16	2.03
asta principale	6	Hi4	33.82	198.36	199.08	199.35	199.96	0.034222	4.17	8.12	14.41	1.77
asta principale	6	Hi3	38.40	198.36	199.13	199.43	200.09	0.034274	4.35	8.83	14.71	1.79
asta principale	6	Hi2	42.98	198.36	199.17	199.50	200.21	0.034338	4.51	9.53	15.01	1.81

HEC-RAS Plan: 01 River: rio Cungiaus-Fri Reach: asta principale (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
asta principale	6	Hi1	49.04	198.36	199.23	199.59	200.36	0.034383	4.71	10.41	15.39	1.83
asta principale	5	Hi4	33.82	194.68	195.37	195.53	195.89	0.037249	4.61	11.62	33.55	1.88
asta principale	5	Hi3	38.40	194.68	195.41	195.56	195.95	0.035730	4.70	12.94	34.81	1.86
asta principale	5	Hi2	42.98	194.68	195.44	195.63	196.00	0.034668	4.80	14.19	35.96	1.85
asta principale	5	Hi1	49.04	194.68	195.48	195.67	196.07	0.033951	4.94	15.72	37.33	1.85
asta principale	4	Hi4	33.82	191.84	192.75	192.87	193.14	0.031491	4.05	14.19	49.88	1.66
asta principale	4	Hi3	38.40	191.84	192.78	192.90	193.18	0.030740	4.12	15.55	50.23	1.66
asta principale	4	Hi2	42.98	191.84	192.80	192.93	193.22	0.030206	4.20	16.85	50.56	1.65
asta principale	4	Hi1	49.04	191.84	192.83	192.96	193.28	0.029730	4.30	18.46	50.97	1.65
asta principale	3	Hi4	33.82	187.82	189.18	189.25	189.52	0.015827	3.62	15.38	36.90	1.21
asta principale	3	Hi3	38.40	187.82	189.22	189.31	189.58	0.015986	3.74	16.86	38.26	1.23
asta principale	3	Hi2	42.98	187.82	189.26	189.37	189.63	0.015921	3.84	18.49	40.36	1.24
asta principale	3	Hi1	49.04	187.82	189.32	189.46	189.70	0.015887	3.98	20.80	44.66	1.25
asta principale	2	Hi4	33.82	184.43	187.32	186.22	187.52	0.001300	2.24	17.29	51.03	0.43
asta principale	2	Hi3	38.40	184.43	187.76	186.34	187.95	0.000971	2.14	20.38	53.81	0.38
asta principale	2	Hi2	42.98	184.43	188.24	186.45	188.85	0.002996	4.14	26.26	65.26	0.69
asta principale	2	Hi1	49.04	184.43	188.39	186.59	188.78	0.002232	3.66	35.97	69.99	0.60
asta principale	1.5		Bridge									
asta principale	1	Hi4	33.82	184.39	185.72	186.14	187.14	0.027520	5.54	6.61	21.85	1.71
asta principale	1	Hi3	38.40	184.39	185.75	186.25	187.49	0.032855	6.14	6.77	22.21	1.87
asta principale	1	Hi2	42.98	184.39	185.77	186.37	187.85	0.038268	6.71	6.93	22.56	2.03
asta principale	1	Hi1	49.04	184.39	185.82	186.52	188.25	0.041874	7.25	7.31	23.42	2.14
asta principale	0.5	Hi4	33.82	184.34	185.60	185.87	186.44	0.022091	4.76	10.15	20.81	1.52
asta principale	0.5	Hi3	38.40	184.34	185.61	185.93	186.64	0.026607	5.27	10.43	21.03	1.67
asta principale	0.5	Hi2	42.98	184.34	185.62	185.99	186.85	0.031431	5.77	10.69	21.21	1.82
asta principale	0.5	Hi1	49.04	184.34	185.64	186.05	187.12	0.037200	6.36	11.10	21.52	1.98