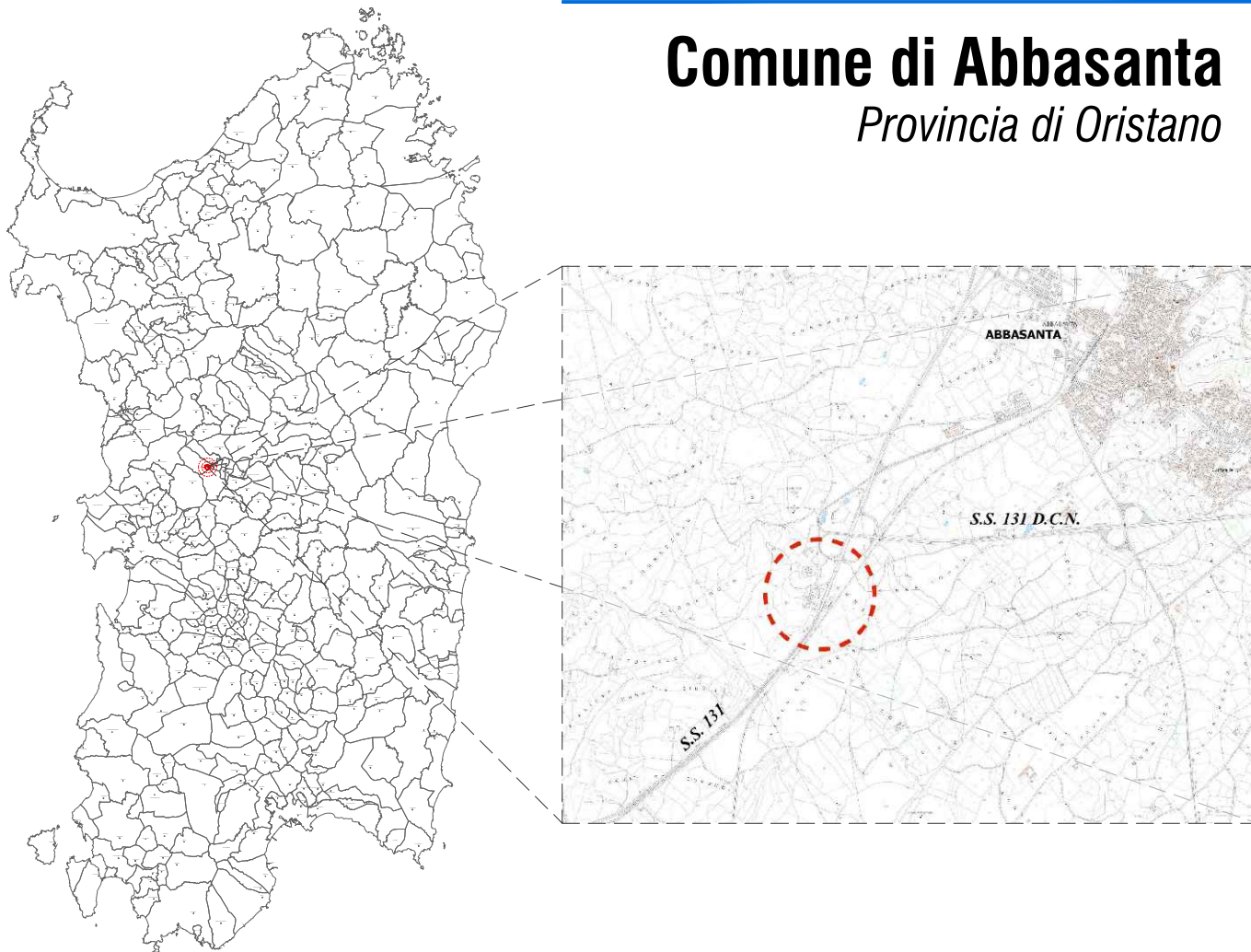


Comune di Abbasanta

Provincia di Oristano



**Comune di Abbasanta - Variante puntuale al PAI,
ai sensi degli artt. 8 e 37 delle Norme di Attuazione concernente la
pericolosità idraulica associata all'elemento idrico denominato
"FIUME 72751" nei pressi della stazione di servizio "Losa" lato Est**

Report di calcolo **Allegato B**

I PROFESSIONISTI

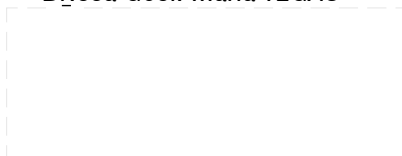
(ingegnere capogruppo)
Ing. Giorgio PILIA



(ingegnere esperto nel settore idraulico)
Ing. Gian Lorenzo CUGUSI



(geologa)
Dr.ssa Geol. Maria TEGAS



Data

Marzo 2025
revisione 00

COMMITTENTE E PROPONENTE

RETE TURISMO E SPETTACOLO S.p.A.

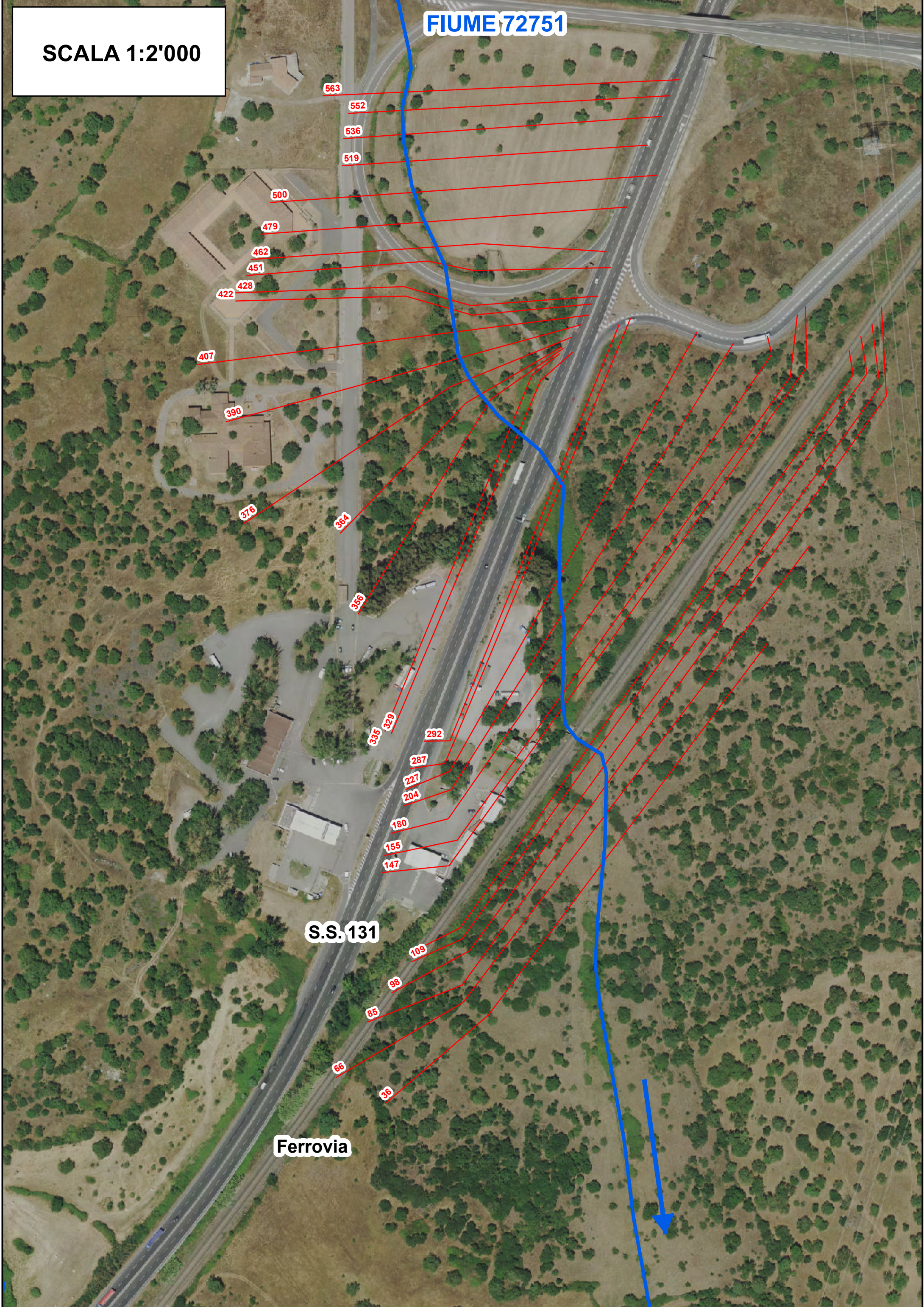
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Codice Fiscale 92004440928



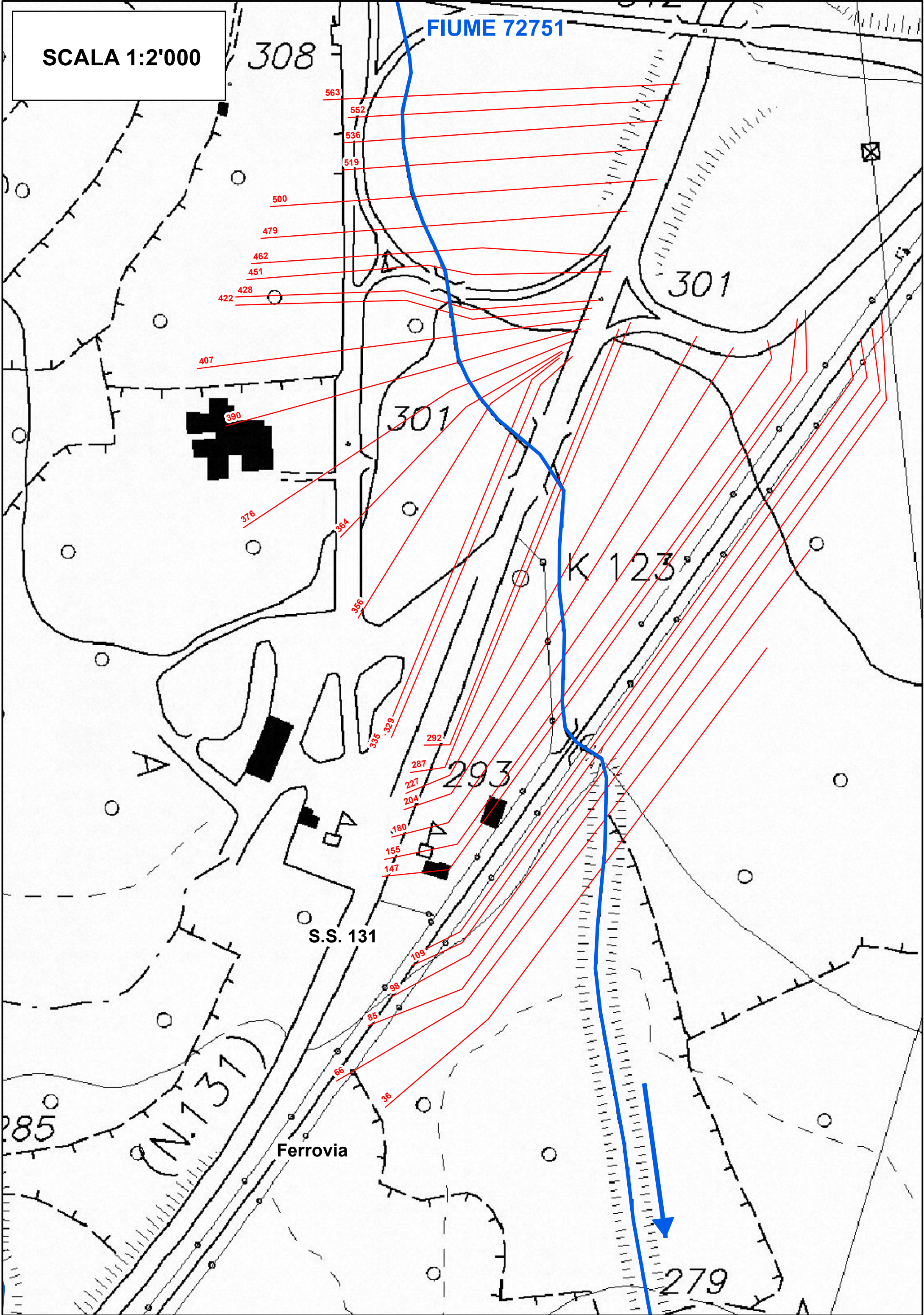
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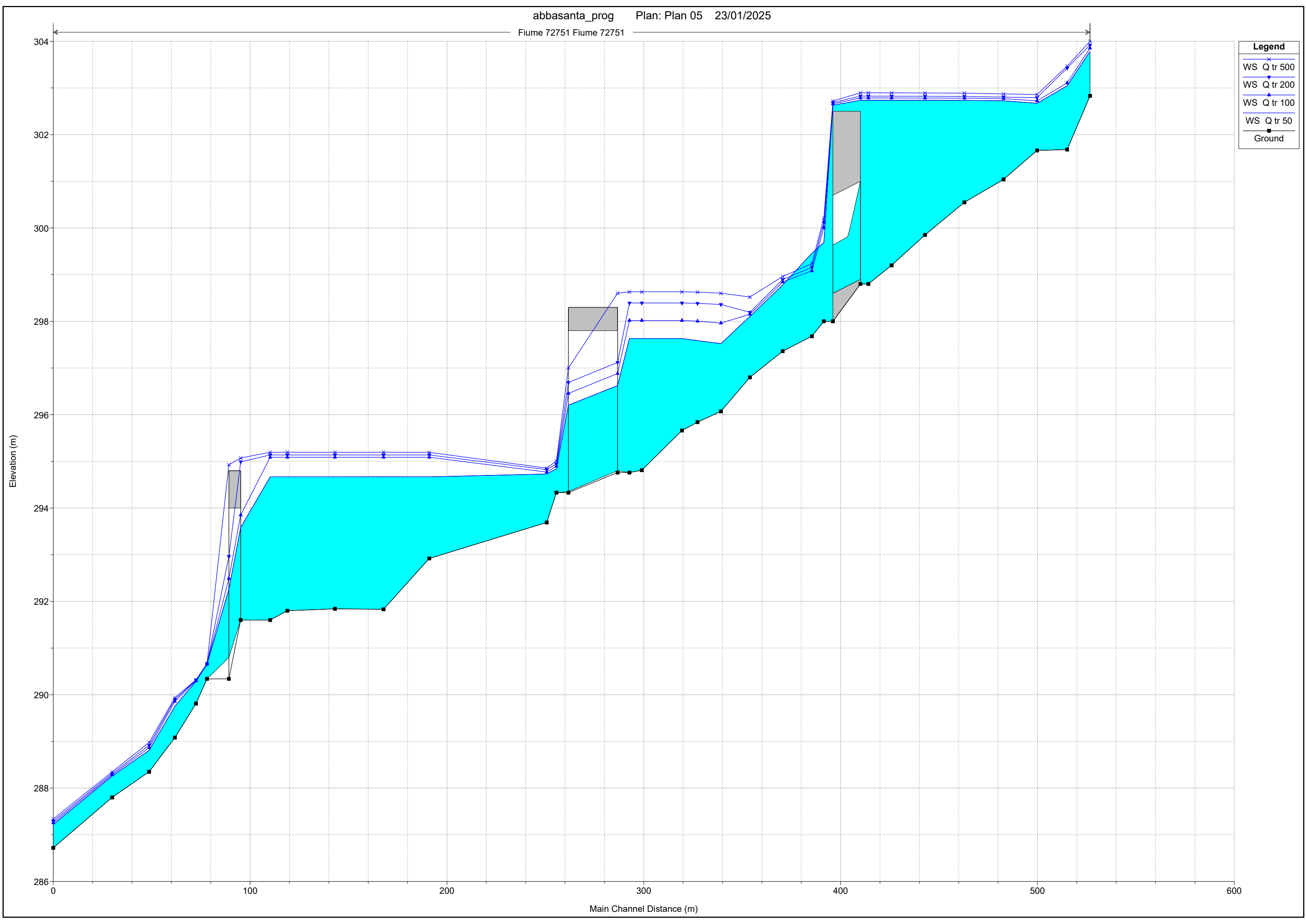
FIUME 72751



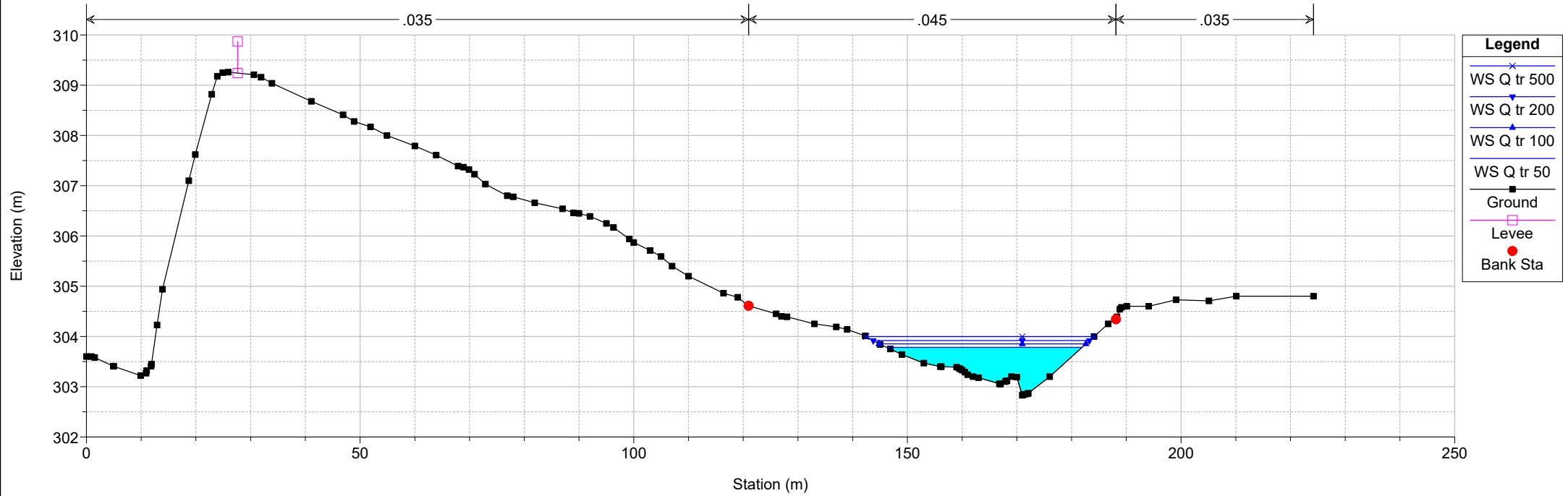
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FIUME 72751

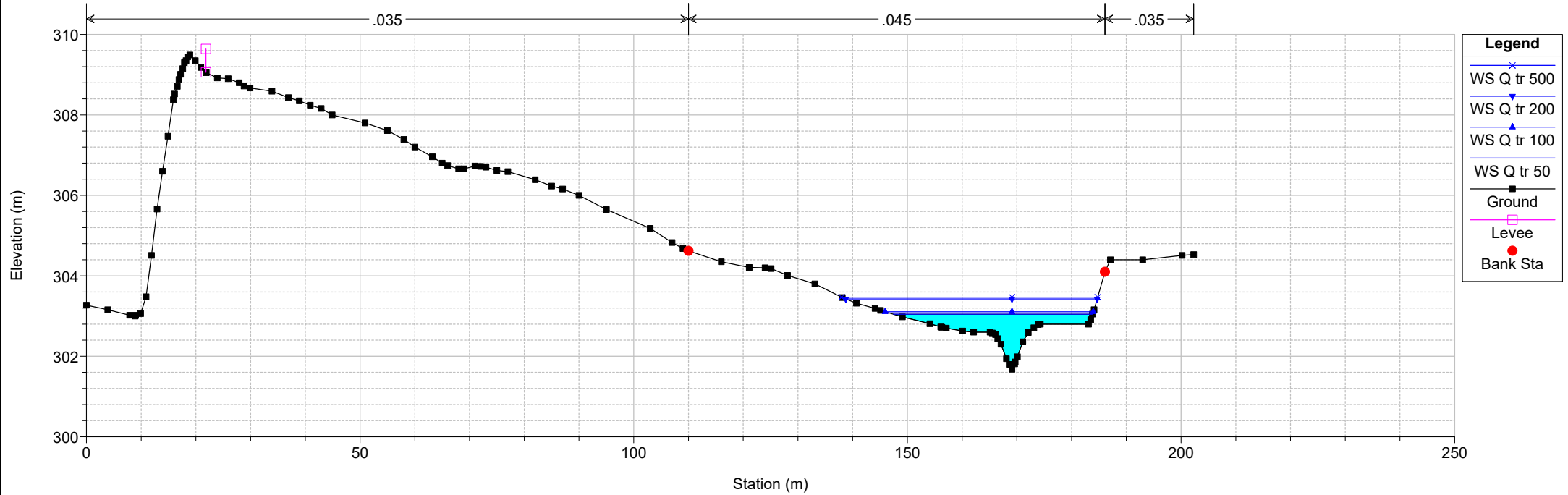




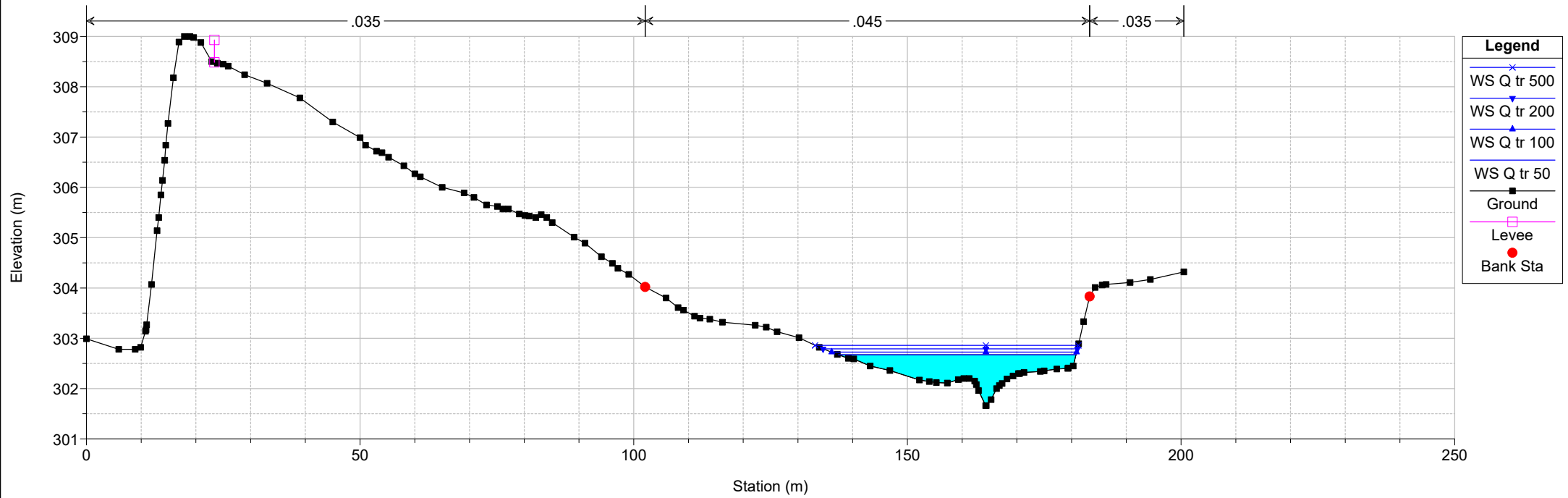
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River = Fiume 72751 Reach = Fiume 72751 RS = 563



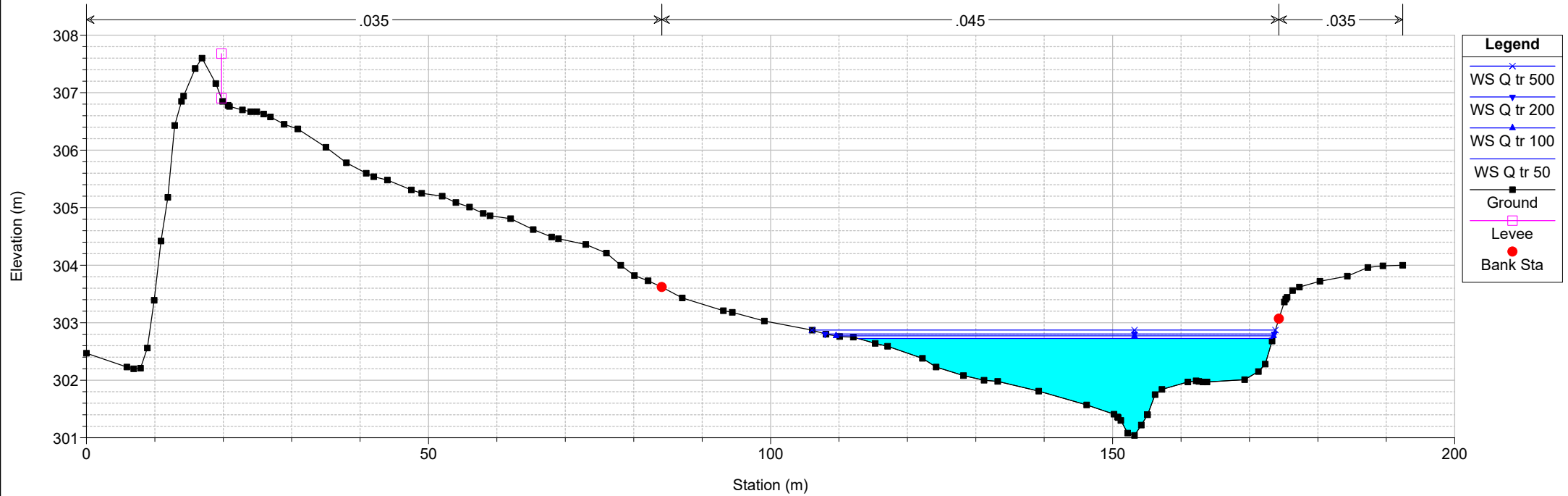
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River = Fiume 72751 Reach = Fiume 72751 RS = 552



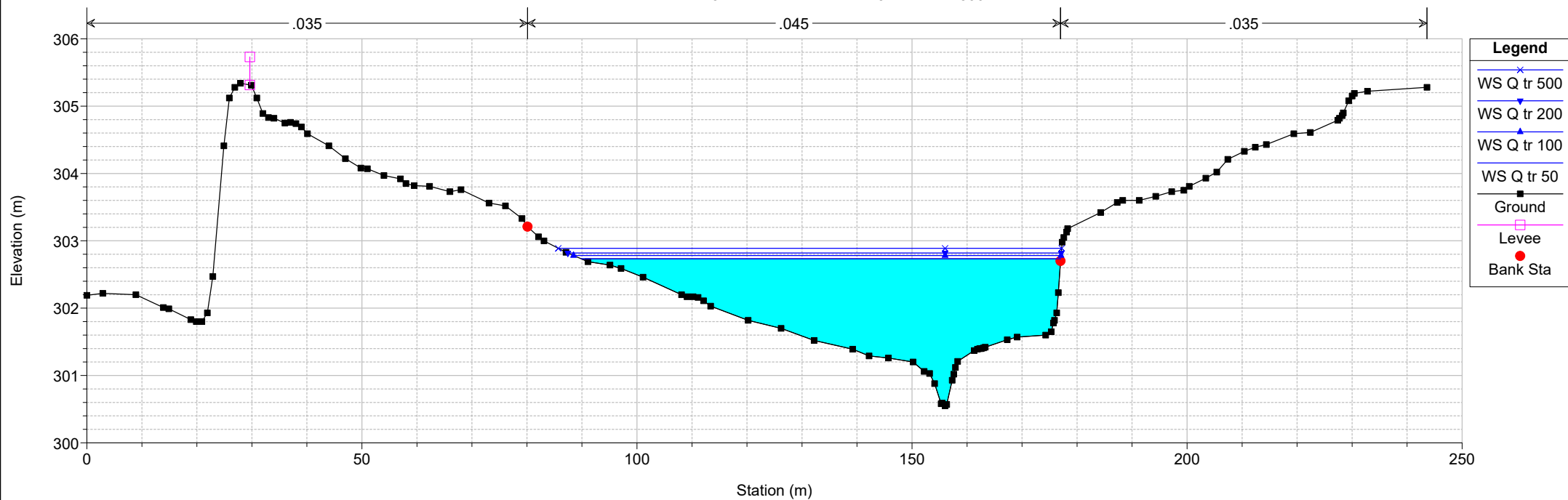
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River = Fiume 72751 Reach = Fiume 72751 RS = 536



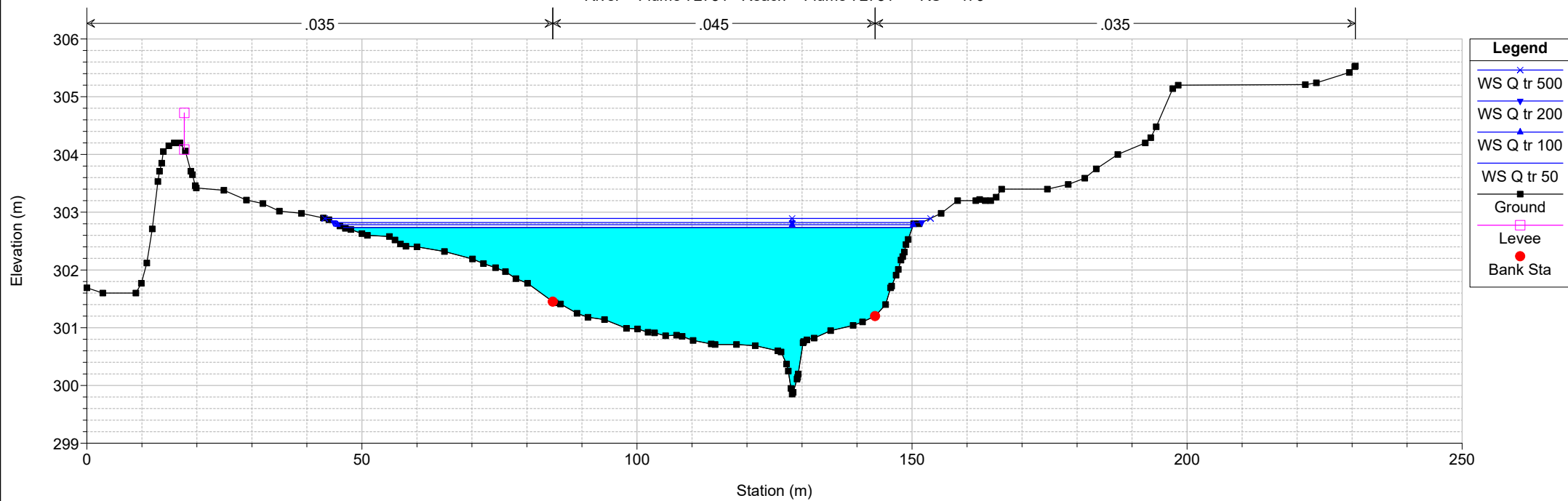
abbasanta_prog Plan: Plan 05 23/01/2025
River = Fiume 72751 Reach = Fiume 72751 RS = 519



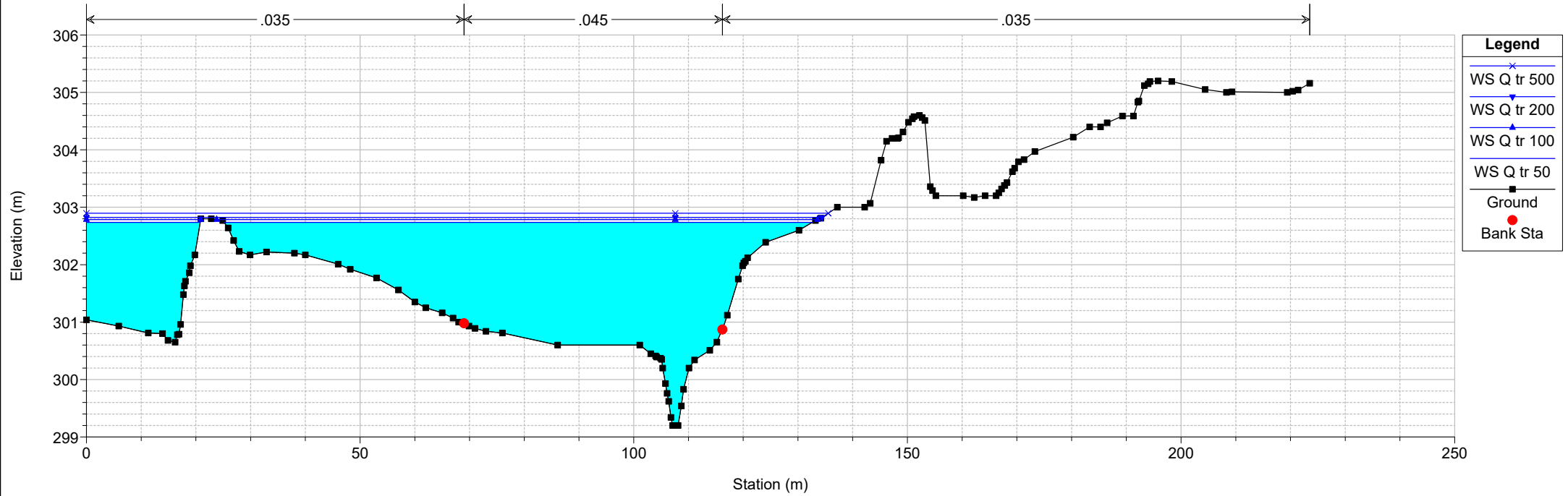
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River = Fiume 72751 Reach = Fiume 72751 RS = 500



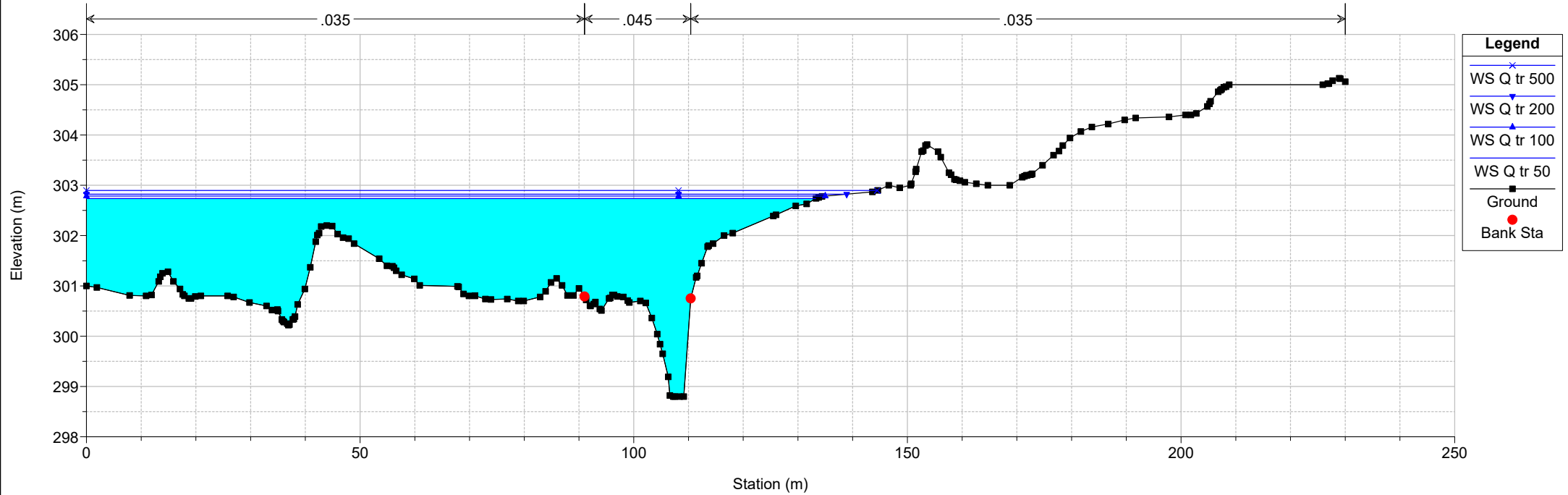
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River = Fiume 72751 Reach = Fiume 72751 RS = 479

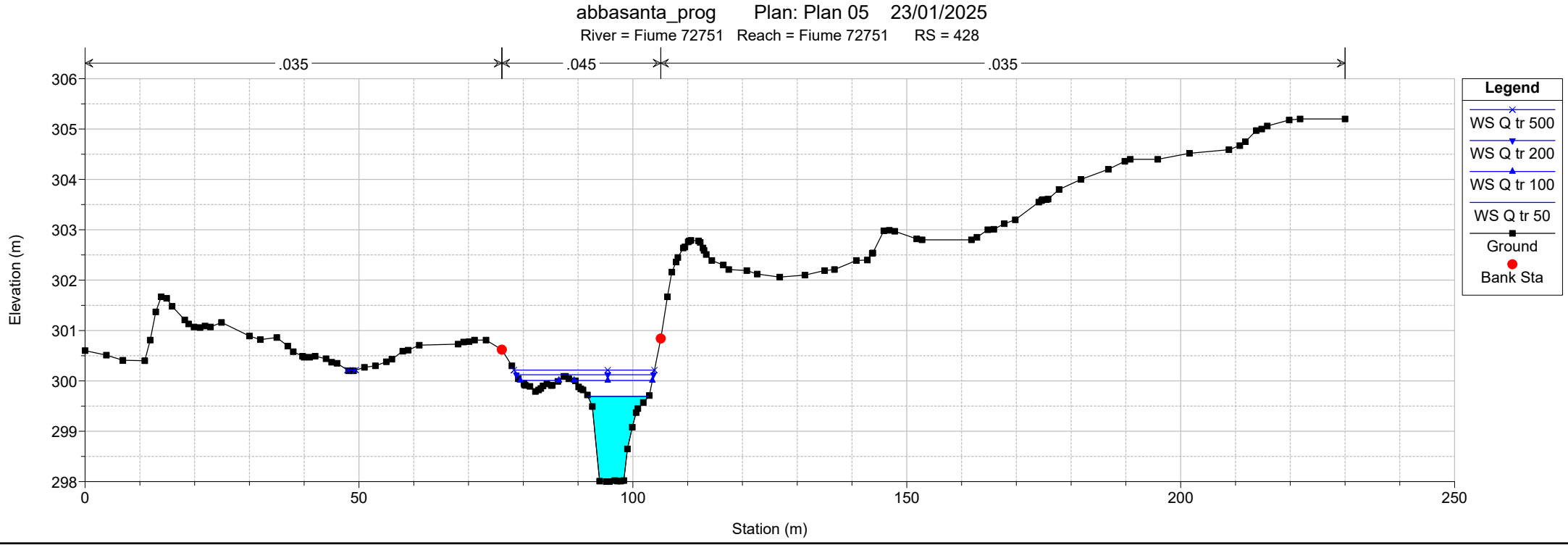
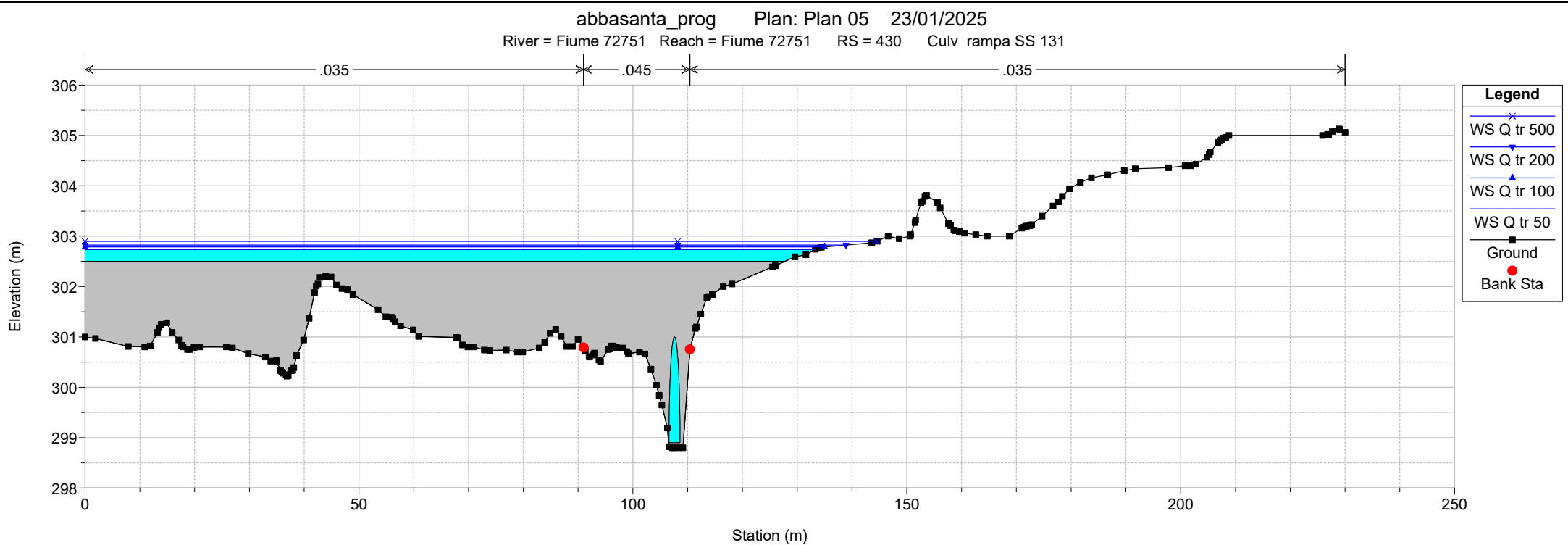


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River = Fiume 72751 Reach = Fiume 72751 RS = 462

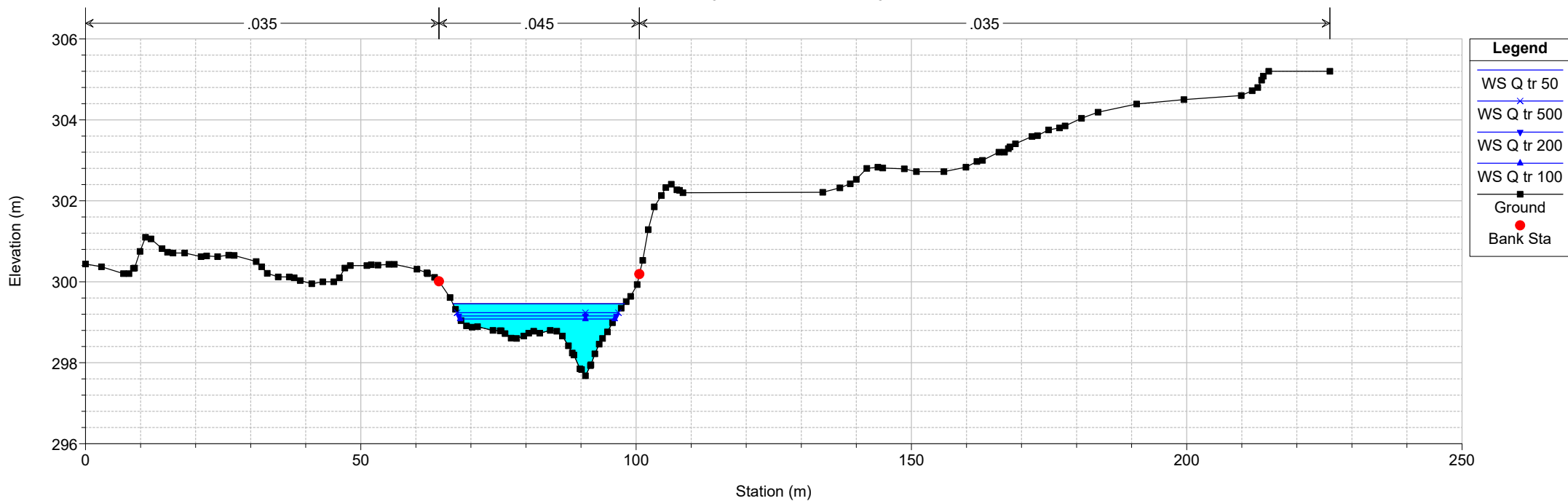


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River = Fiume 72751 Reach = Fiume 72751 RS = 451

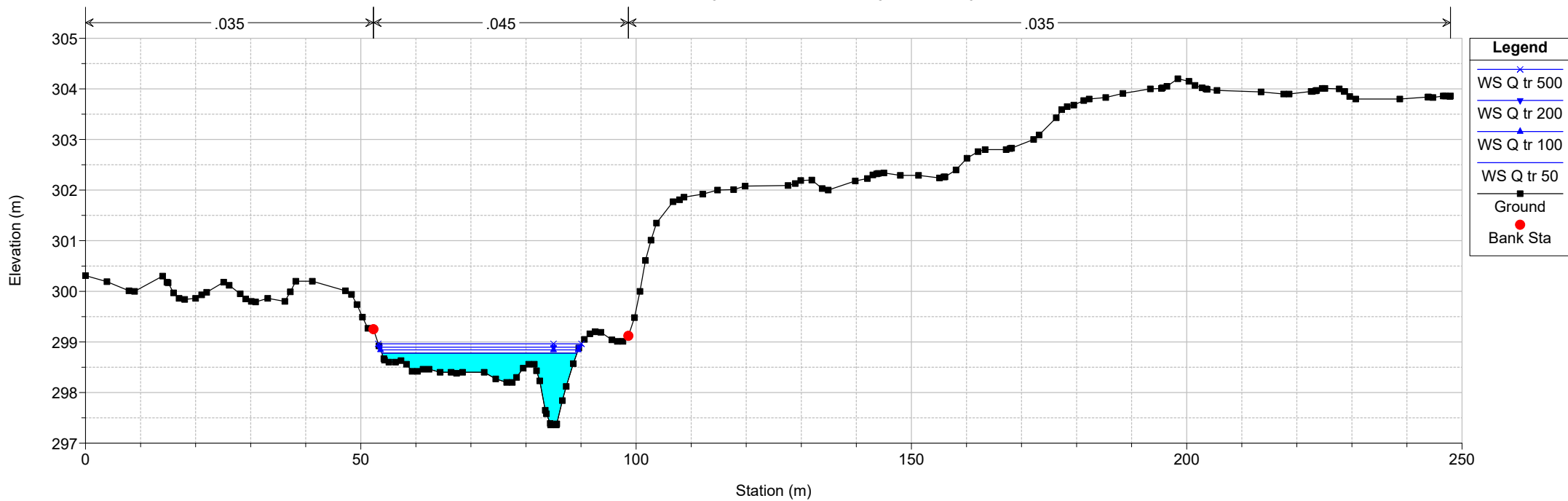




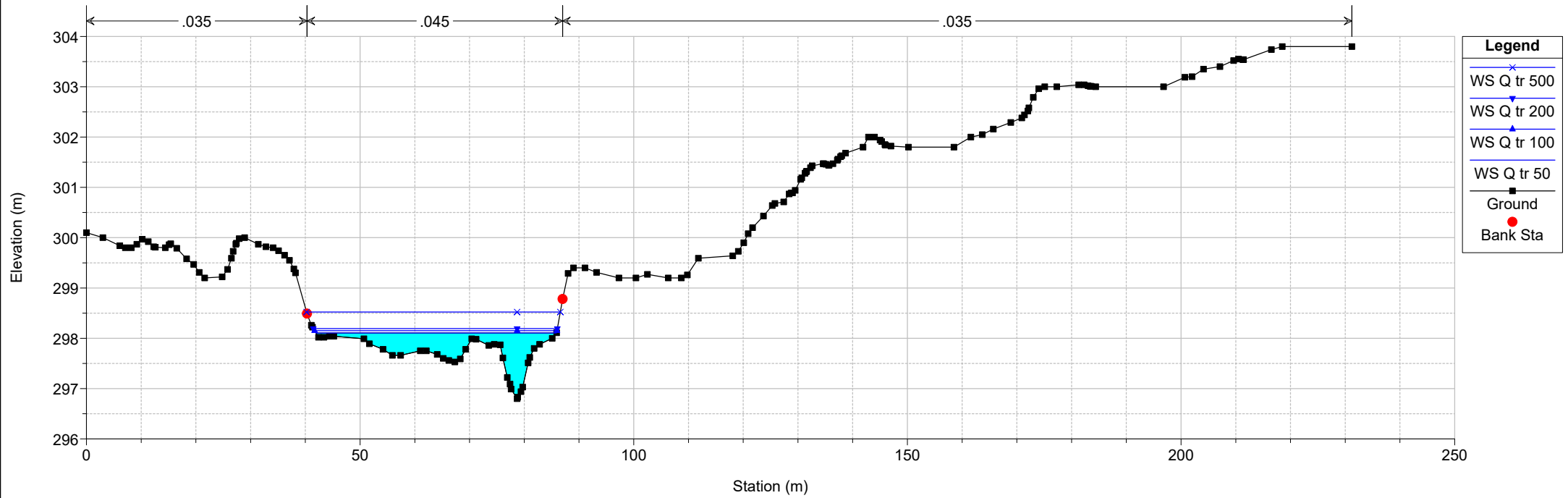
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River = Fiume 72751 Reach = Fiume 72751 RS = 422



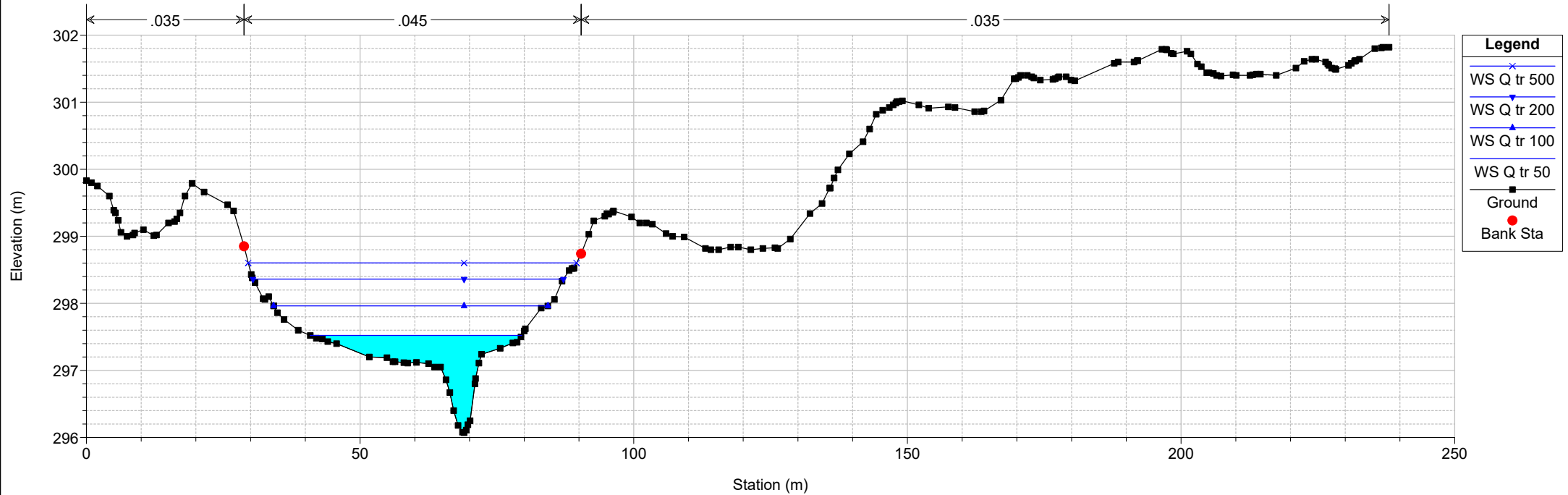
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River = Fiume 72751 Reach = Fiume 72751 RS = 407



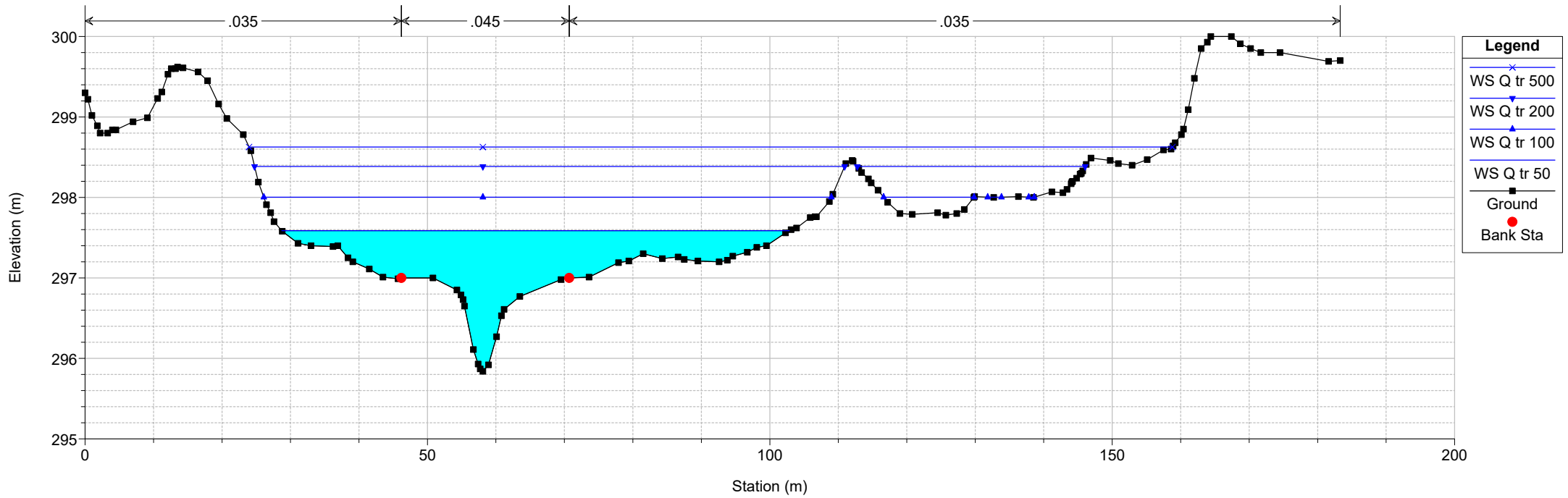
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River = Fiume 72751 Reach = Fiume 72751 RS = 390



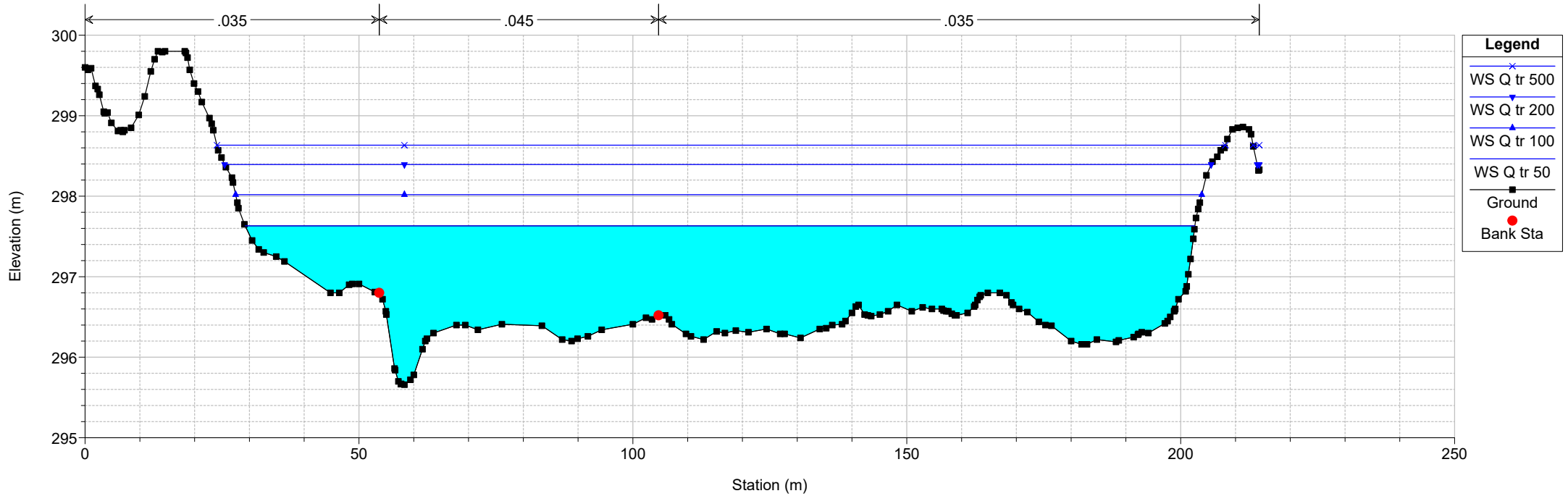
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River = Fiume 72751 Reach = Fiume 72751 RS = 376



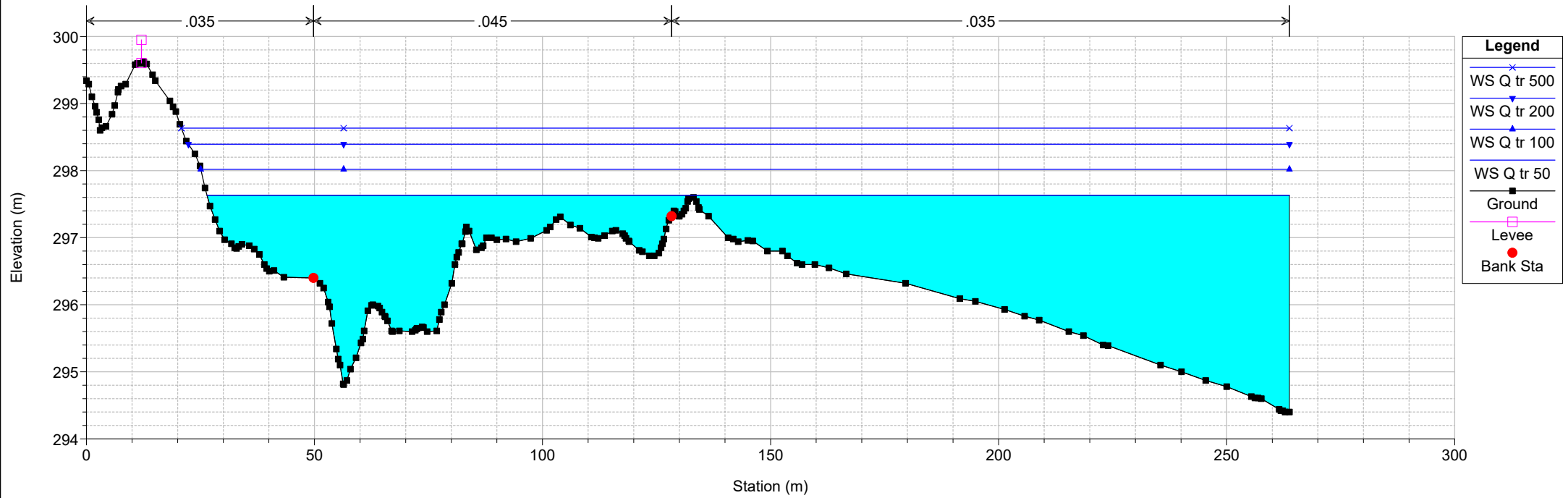
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River = Fiume 72751 Reach = Fiume 72751 RS = 364



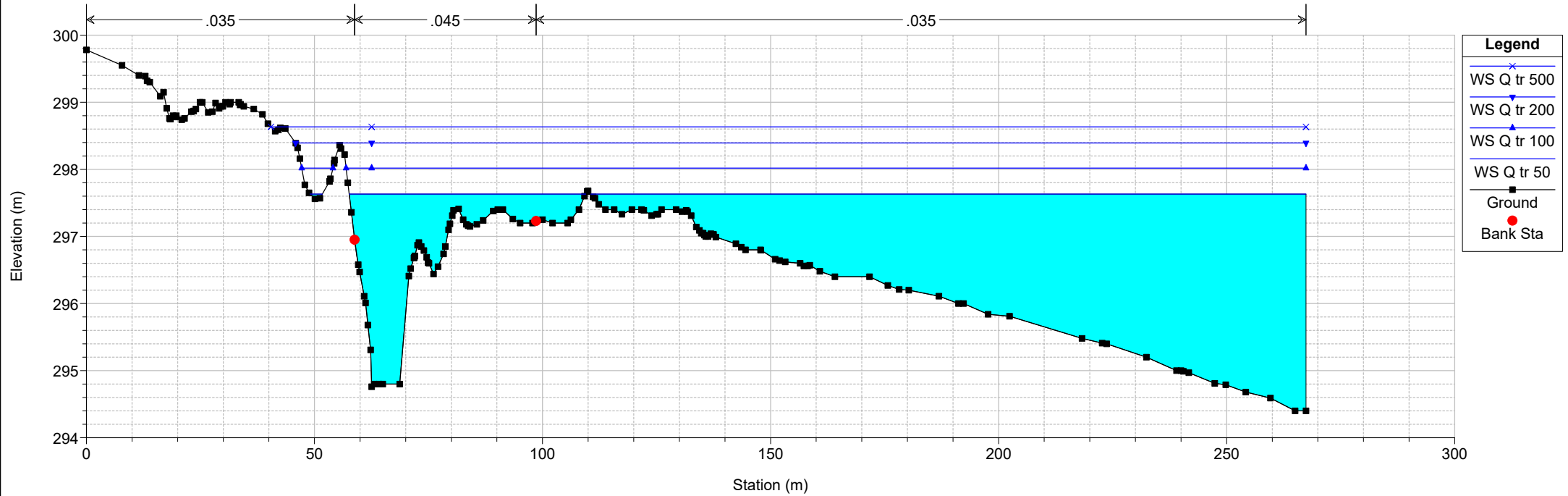
abbasanta_prog Plan: Plan 05 23/01/2025
River = Fiume 72751 Reach = Fiume 72751 RS = 356



abbasanta_prog Plan: Plan 05 23/01/2025
River = Fiume 72751 Reach = Fiume 72751 RS = 335

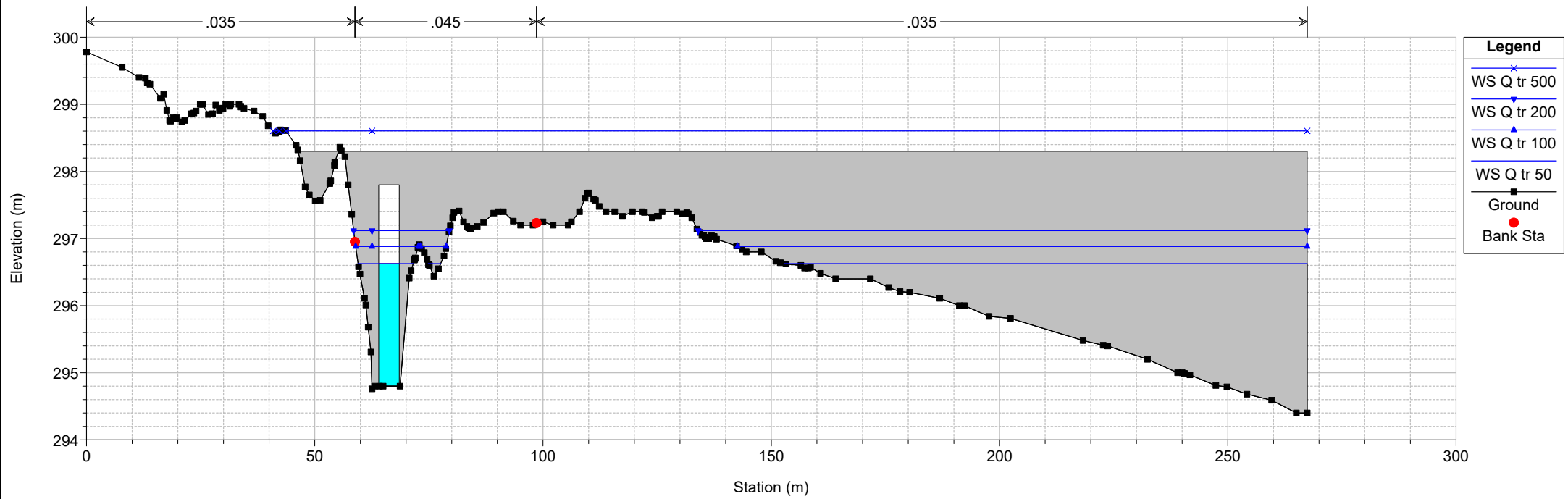


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River = Fiume 72751 Reach = Fiume 72751 RS = 329



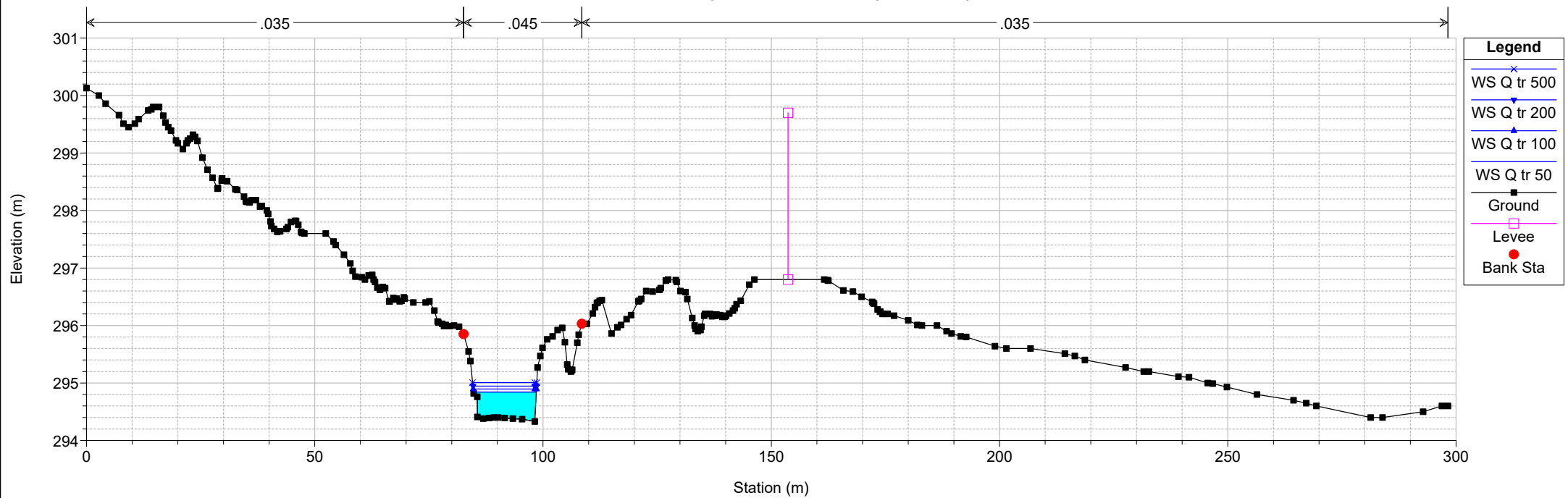
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River = Fiume 72751 Reach = Fiume 72751 RS = 300 BR SS 131

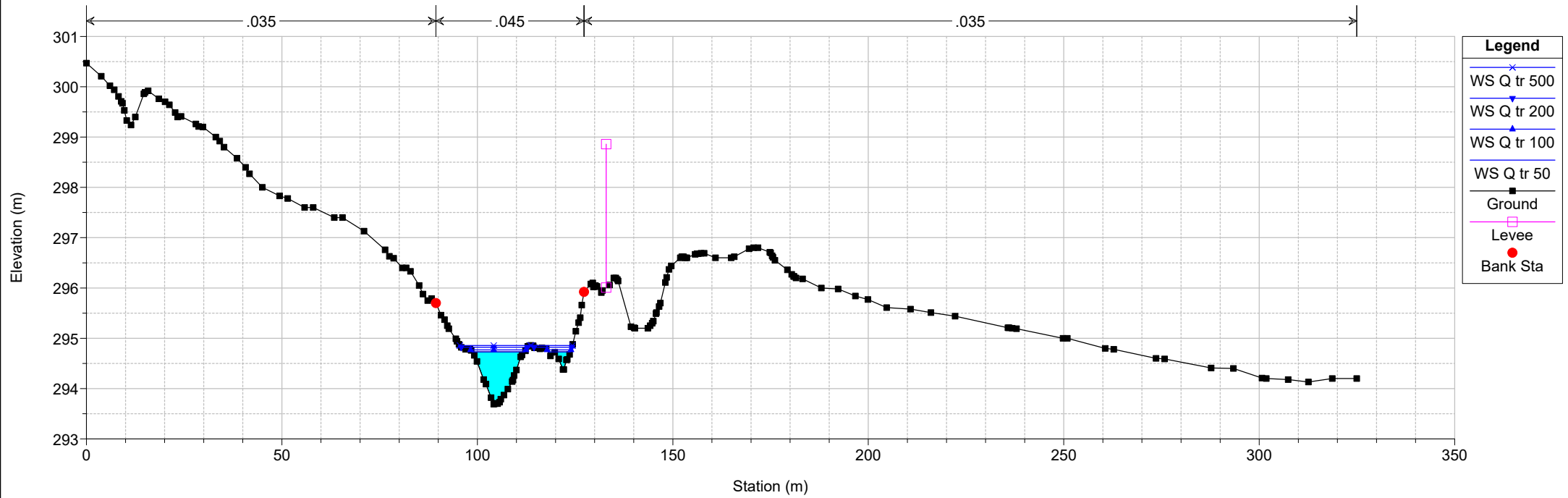


abbasanta_prog Plan: Plan 05 23/01/2025

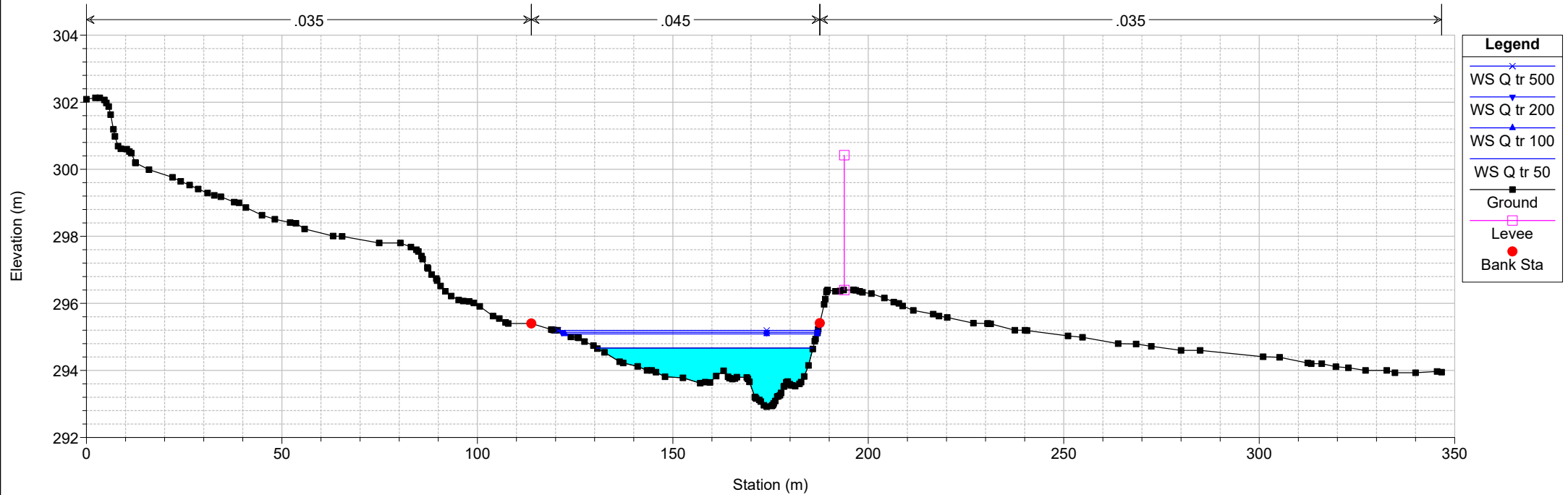
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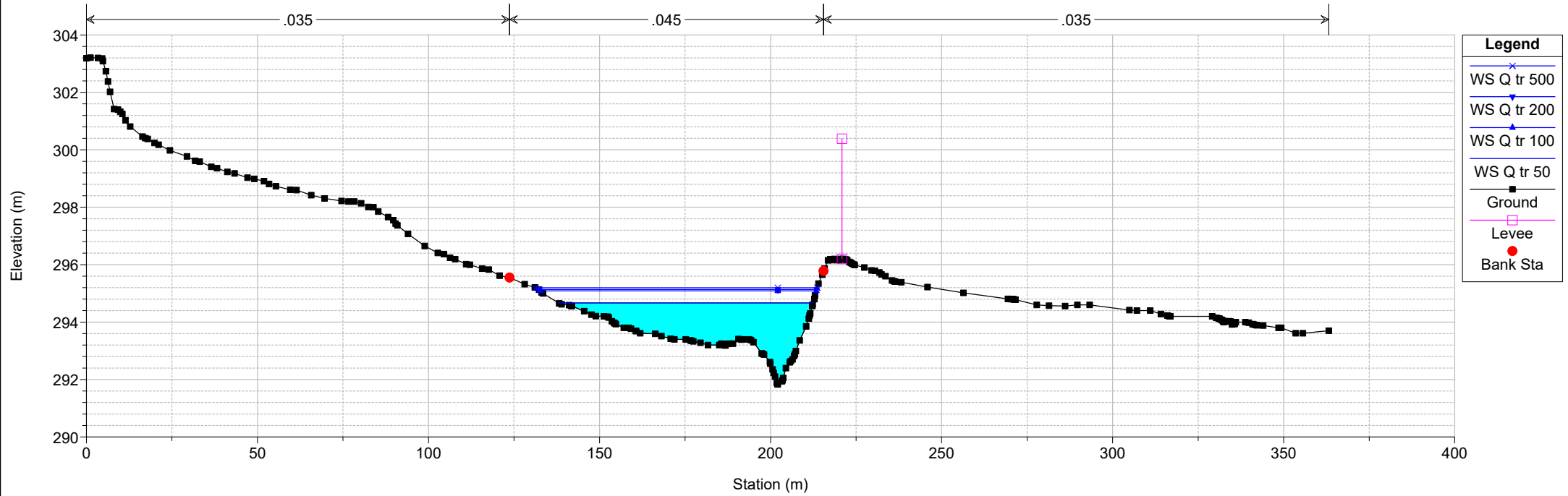
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River = Fiume 72751 Reach = Fiume 72751 RS = 287



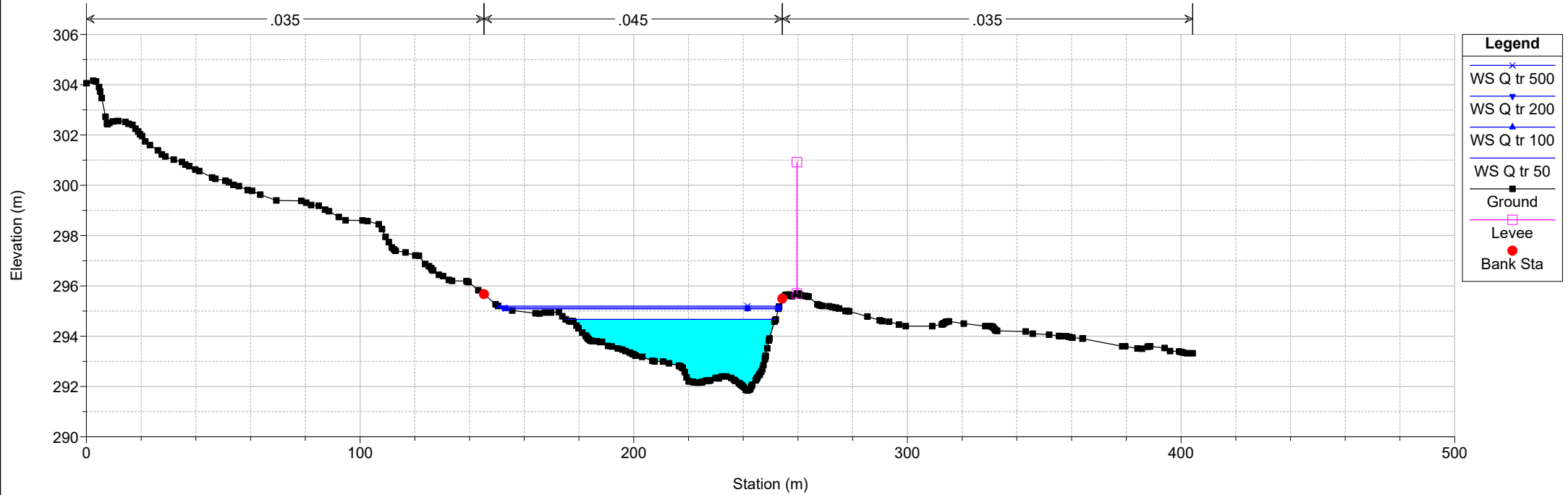
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River = Fiume 72751 Reach = Fiume 72751 RS = 227

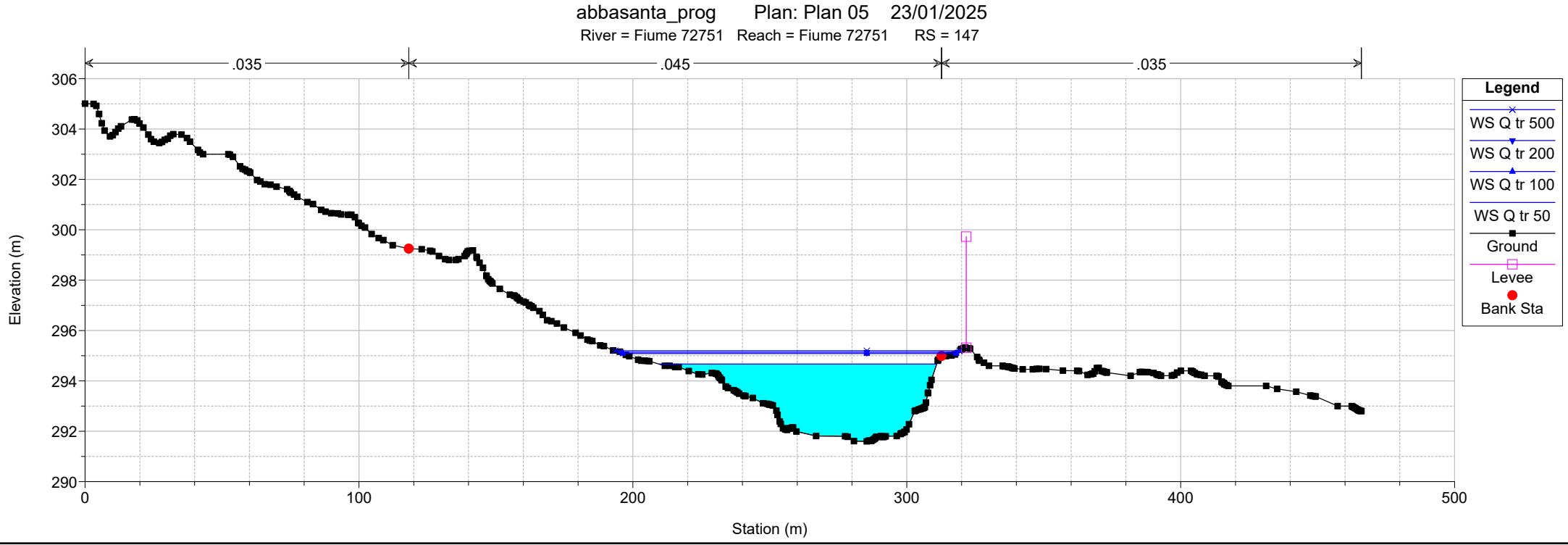
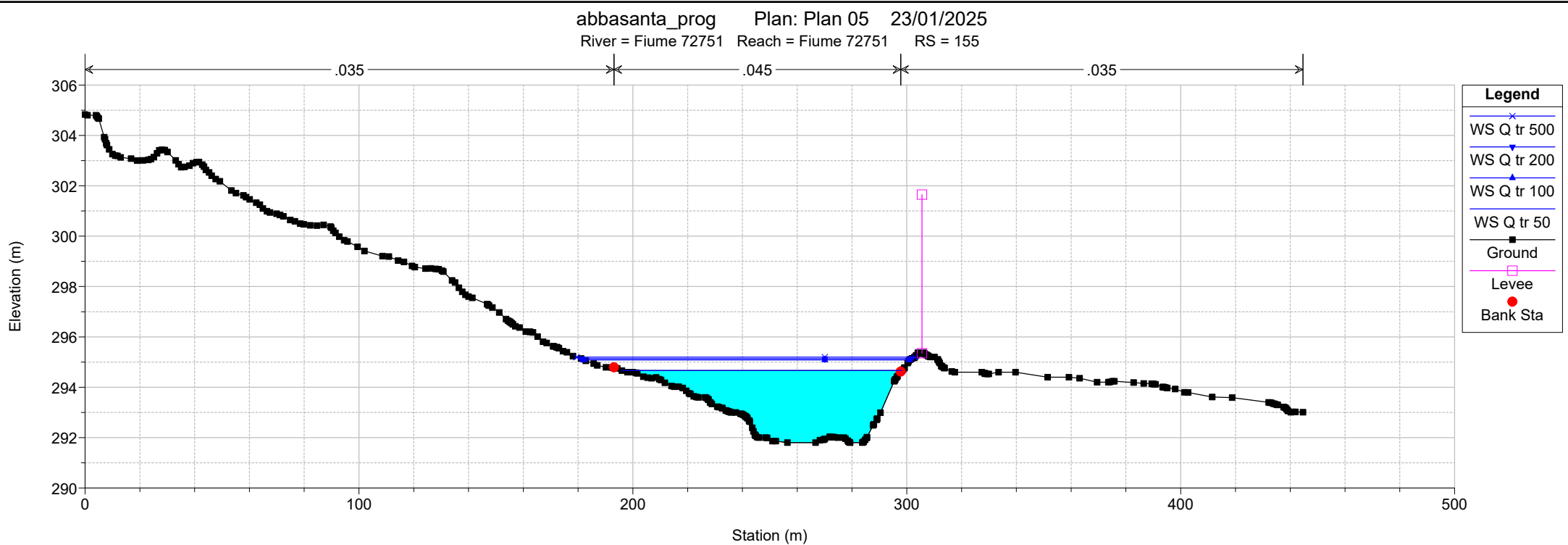


abbasanta_prog Plan: Plan 05 23/01/2025
River = Fiume 72751 Reach = Fiume 72751 RS = 204

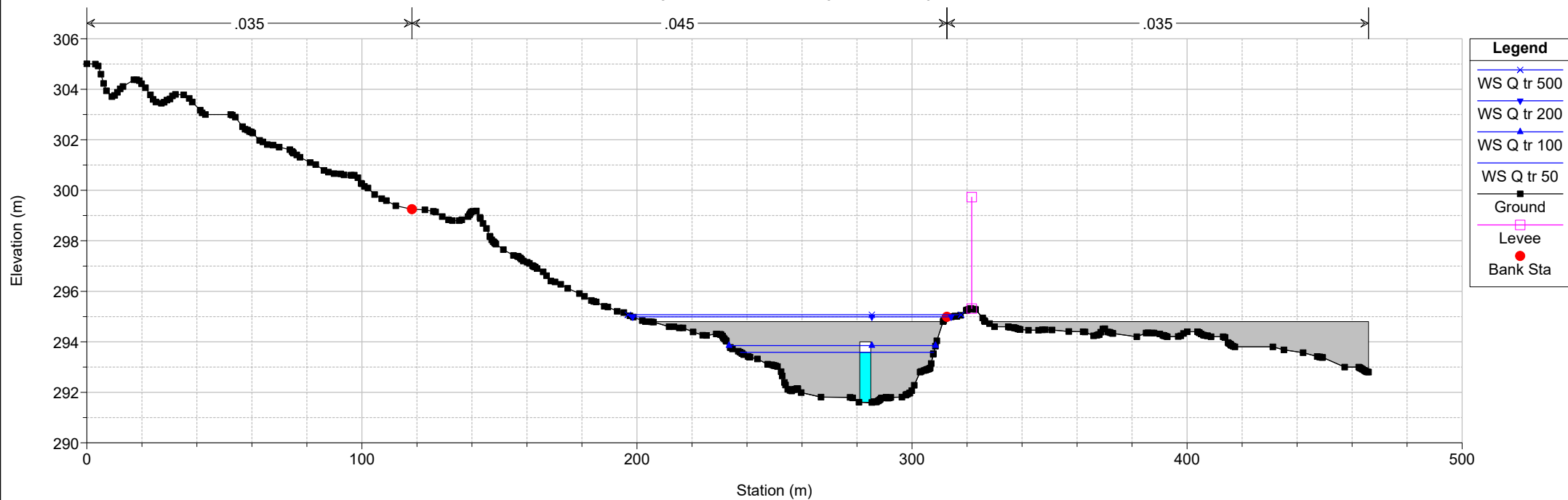


abbasanta_prog Plan: Plan 05 23/01/2025
River = Fiume 72751 Reach = Fiume 72751 RS = 180

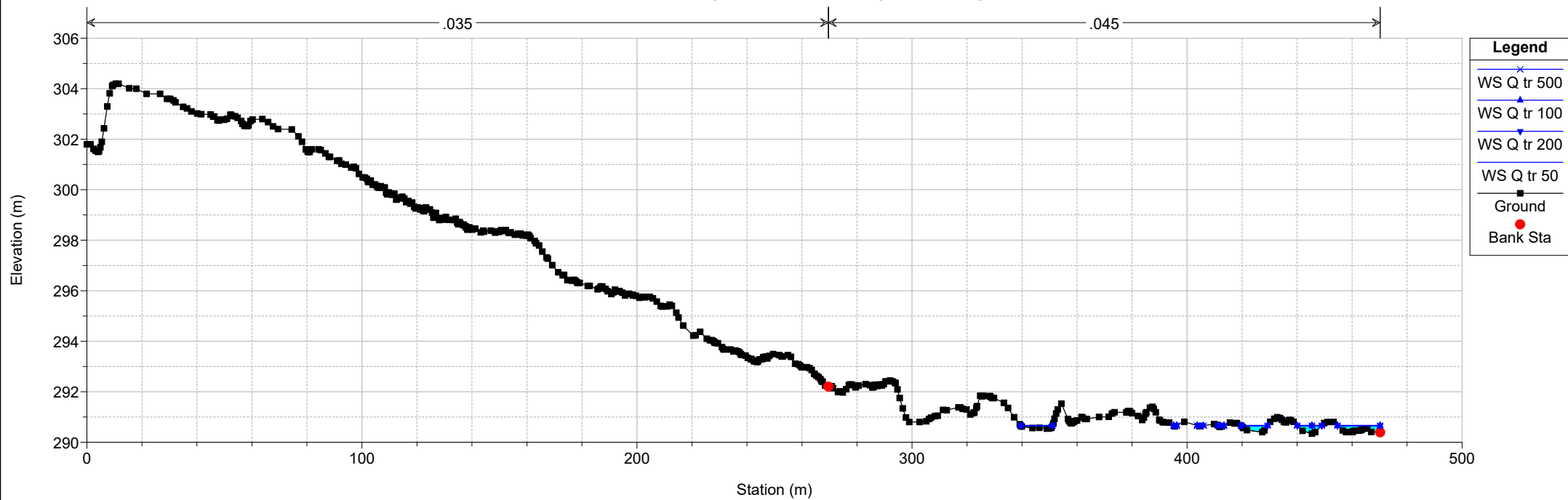




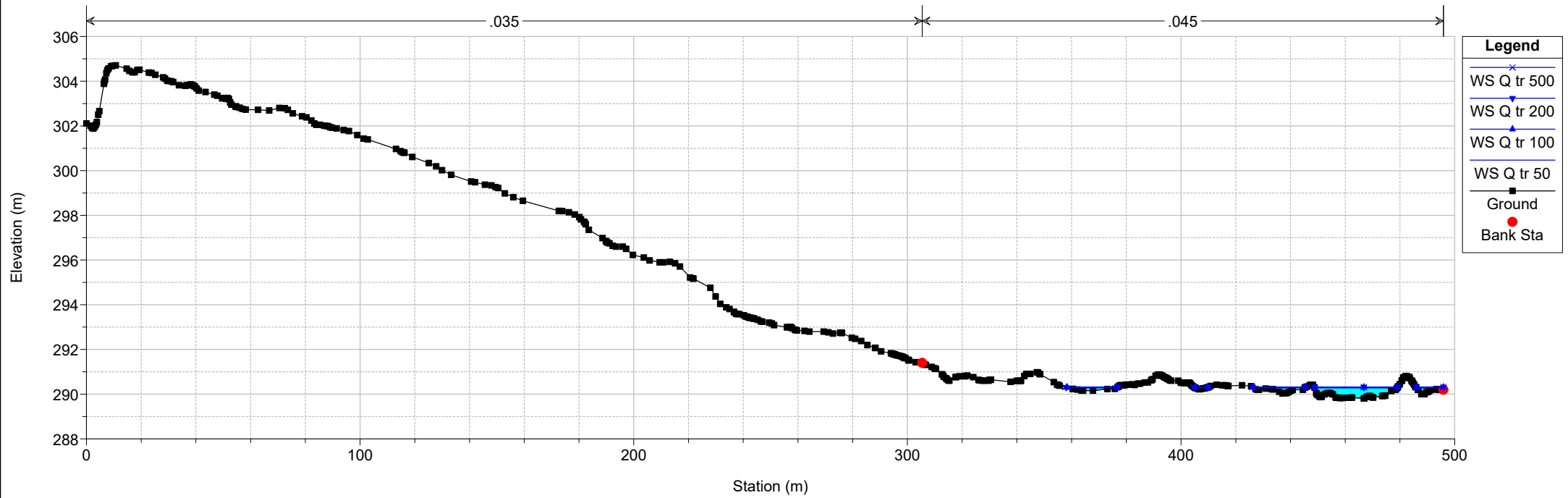
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River = Fiume 72751 Reach = Fiume 72751 RS = 120 BR Ferrovia



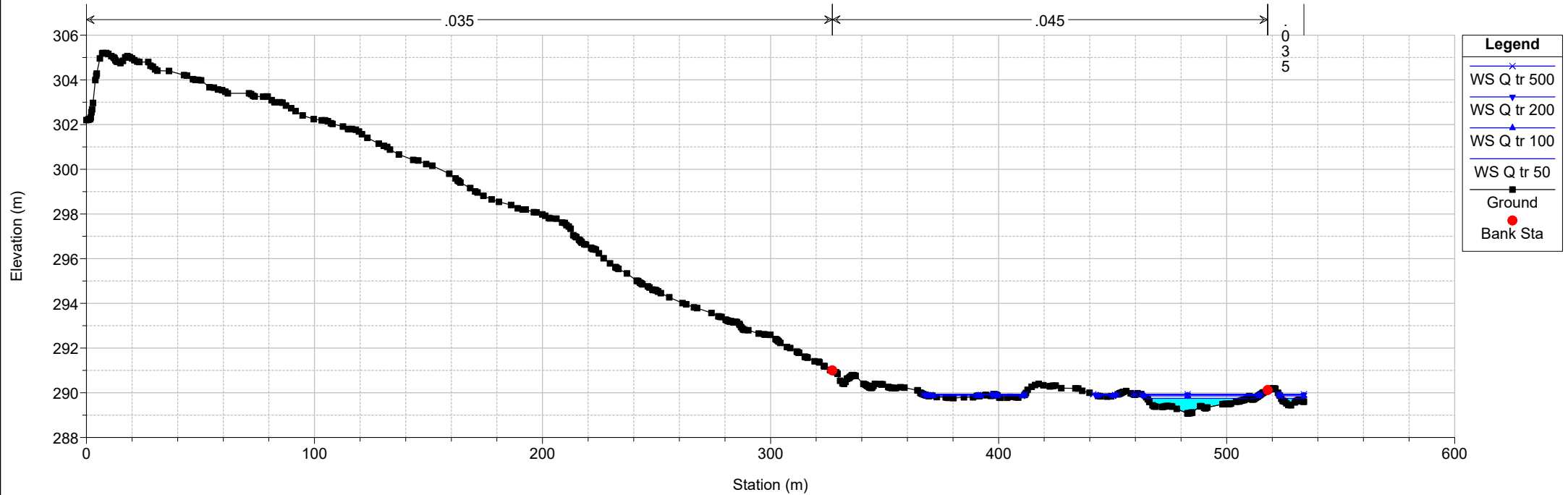
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River = Fiume 72751 Reach = Fiume 72751 RS = 115



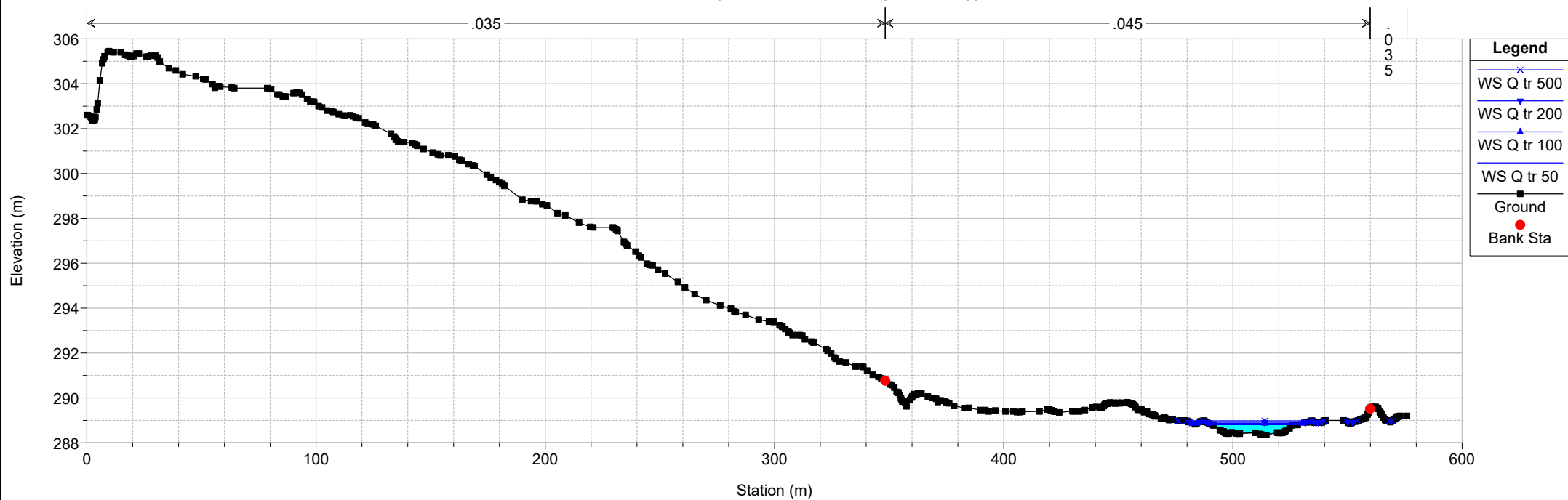
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River = Fiume 72751 Reach = Fiume 72751 RS = 109



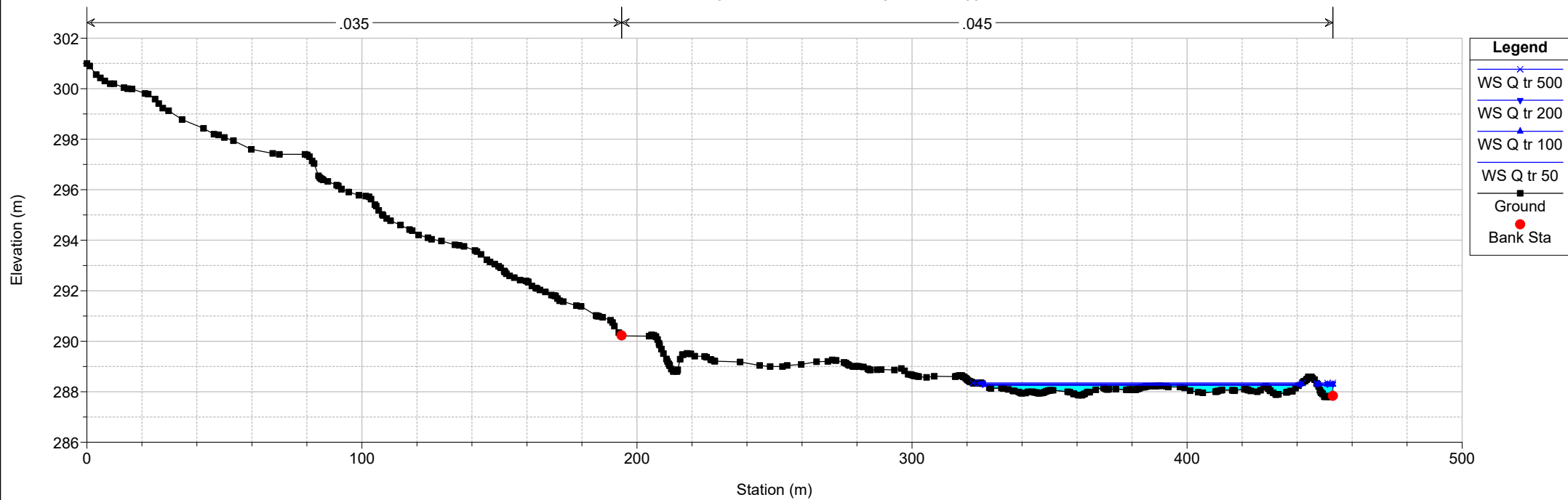
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River = Fiume 72751 Reach = Fiume 72751 RS = 98

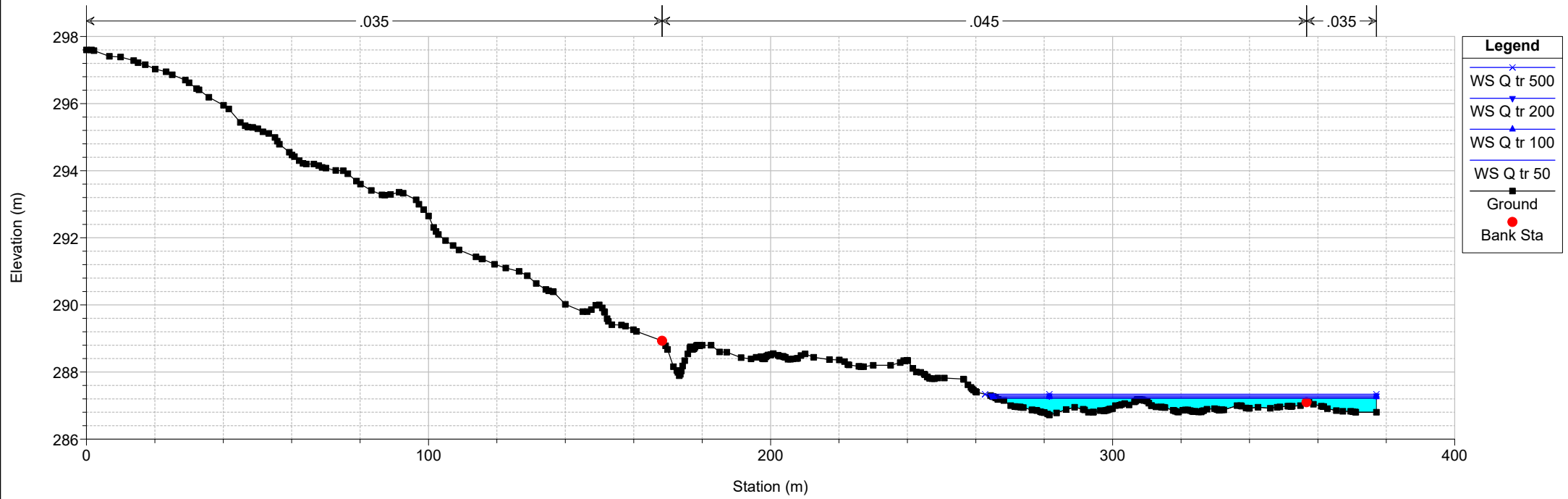


abbasanta_prog Plan: Plan 05 23/01/2025
River = Fiume 72751 Reach = Fiume 72751 RS = 85



abbasanta_prog Plan: Plan 05 23/01/2025
River = Fiume 72751 Reach = Fiume 72751 RS = 66





Reach	River Sta	Profile	Length Chnl	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Vel Chnl	Vel Total	Flow Area	Top Width	Froude # Chl
			(m)	(m3/s)	(m)	(m)	(m)	(m/s)	(m/s)	(m2)	(m)	
Fiume 72751	563	Q tr 50	11.60	34.80	302.83	303.78	0.95	2.12	2.12	16.40	35.69	1.00
Fiume 72751	563	Q tr 100	11.60	42.19	302.83	303.85	1.02	2.22	2.22	18.99	37.82	1.00
Fiume 72751	563	Q tr 200	11.60	49.75	302.83	303.92	1.09	2.31	2.31	21.51	39.51	1.00
Fiume 72751	563	Q tr 500	11.60	59.86	302.83	304.00	1.17	2.42	2.42	24.74	41.59	1.00
Fiume 72751	552	Q tr 50	15.30	34.80	301.68	303.05	1.37	2.49	2.49	13.97	36.34	1.28
Fiume 72751	552	Q tr 100	15.30	42.19	301.68	303.11	1.43	2.60	2.60	16.22	38.02	1.27
Fiume 72751	552	Q tr 200	15.30	49.75	301.68	303.43	1.75	1.68	1.68	29.64	45.92	0.67
Fiume 72751	552	Q tr 500	15.30	59.86	301.68	303.47	1.79	1.89	1.89	31.65	46.78	0.73
Fiume 72751	536	Q tr 50	17.00	34.80	301.66	302.67	1.01	1.99	1.99	17.47	43.41	1.00
Fiume 72751	536	Q tr 100	17.00	42.19	301.66	302.72	1.06	2.14	2.14	19.75	44.76	1.03
Fiume 72751	536	Q tr 200	17.00	49.75	301.66	302.79	1.13	2.18	2.18	22.79	46.48	1.00
Fiume 72751	536	Q tr 500	17.00	59.86	301.66	302.86	1.20	2.30	2.30	26.01	48.09	1.00
Fiume 72751	519	Q tr 50	19.90	34.80	301.04	302.72	1.68	0.75	0.75	46.26	60.58	0.27
Fiume 72751	519	Q tr 100	19.90	42.19	301.04	302.77	1.73	0.86	0.86	49.10	63.97	0.31
Fiume 72751	519	Q tr 200	19.90	49.75	301.04	302.80	1.76	0.97	0.97	51.29	65.65	0.35
Fiume 72751	519	Q tr 500	19.90	59.86	301.04	302.87	1.83	1.07	1.07	55.77	67.76	0.38
Fiume 72751	500	Q tr 50	20.00	34.80	300.55	302.73	2.18	0.40	0.40	87.60	87.18	0.13
Fiume 72751	500	Q tr 100	20.00	42.19	300.55	302.78	2.23	0.46	0.46	91.85	88.61	0.14
Fiume 72751	500	Q tr 200	20.00	49.75	300.55	302.82	2.27	0.52	0.52	95.15	89.70	0.16
Fiume 72751	500	Q tr 500	20.00	59.86	300.55	302.89	2.34	0.59	0.59	101.54	91.50	0.18
Fiume 72751	479	Q tr 50	17.00	34.80	299.85	302.74	2.88	0.28	0.26	133.49	103.43	0.07
Fiume 72751	479	Q tr 100	17.00	42.19	299.85	302.78	2.93	0.33	0.30	138.59	104.68	0.08
Fiume 72751	479	Q tr 200	17.00	49.75	299.85	302.82	2.97	0.38	0.35	142.57	106.90	0.09
Fiume 72751	479	Q tr 500	17.00	59.86	299.85	302.89	3.04	0.44	0.40	150.29	110.12	0.10
Fiume 72751	462	Q tr 50	11.80	34.80	299.20	302.74	3.54	0.20	0.19	186.78	128.23	0.04
Fiume 72751	462	Q tr 100	11.80	42.19	299.20	302.79	3.59	0.24	0.22	193.15	130.65	0.05
Fiume 72751	462	Q tr 200	11.80	49.75	299.20	302.82	3.62	0.28	0.25	198.22	134.42	0.06
Fiume 72751	462	Q tr 500	11.80	59.86	299.20	302.90	3.70	0.32	0.29	207.92	135.55	0.07
Fiume 72751	451	Q tr 50	22.60	34.80	298.80	302.74	3.94	0.16	0.16	219.52	133.25	0.03
Fiume 72751	451	Q tr 100	22.60	42.19	298.80	302.79	3.99	0.19	0.19	226.14	134.99	0.04
Fiume 72751	451	Q tr 200	22.60	49.75	298.80	302.82	4.02	0.22	0.22	231.37	138.90	0.04
Fiume 72751	451	Q tr 500	22.60	59.86	298.80	302.90	4.10	0.25	0.25	241.61	144.47	0.05
Fiume 72751	430		Culvert									
Fiume 72751	428	Q tr 50	6.10	34.80	298.00	299.69	1.69	3.15	3.15	11.05	11.04	1.01
Fiume 72751	428	Q tr 100	6.10	42.19	298.00	300.01	2.01	2.67	2.67	15.82	21.32	0.99
Fiume 72751	428	Q tr 200	6.10	49.75	298.00	300.12	2.12	2.69	2.69	18.49	25.04	1.00
Fiume 72751	428	Q tr 500	6.10	59.86	298.00	300.21	2.21	2.87	2.87	20.85	27.10	1.02
Fiume 72751	422	Q tr 50	14.80	34.80	297.68	299.46	1.78	1.44	1.44	24.10	31.19	0.52
Fiume 72751	422	Q tr 100	14.80	42.19	297.68	299.08	1.40	3.25	3.25	12.97	28.06	1.53
Fiume 72751	422	Q tr 200	14.80	49.75	297.68	299.16	1.48	3.31	3.31	15.03	28.65	1.46
Fiume 72751	422	Q tr 500	14.80	59.86	297.68	299.24	1.56	3.45	3.45	17.37	29.29	1.43
Fiume 72751	407	Q tr 50	16.70	34.80	297.36	298.78	1.42	2.15	2.15	16.19	35.46	1.02
Fiume 72751	407	Q tr 100	16.70	42.19	297.36	298.84	1.48	2.28	2.28	18.49	35.90	1.02
Fiume 72751	407	Q tr 200	16.70	49.75	297.36	298.89	1.53	2.44	2.44	20.36	36.30	1.04
Fiume 72751	407	Q tr 500	16.70	59.86	297.36	298.96	1.60	2.62	2.62	22.80	36.91	1.07
Fiume 72751	390	Q tr 50	14.70	34.80	296.80	298.10	1.30	2.27	2.27	15.31	43.93	1.23
Fiume 72751	390	Q tr 100	14.70	42.19	296.80	298.15	1.35	2.43	2.43	17.35	44.29	1.24
Fiume 72751	390	Q tr 200	14.70	49.75	296.80	298.19	1.39	2.59	2.59	19.23	44.59	1.26
Fiume 72751	390	Q tr 500	14.70	59.86	296.80	298.52	1.72	1.75	1.75	34.15	46.36	0.65
Fiume 72751	376	Q tr 50	11.90	34.80	296.07	297.52	1.45	2.27	2.27	15.31	38.70	1.15
Fiume 72751	376	Q tr 100	11.90	42.19	296.07	297.96	1.89	1.21	1.21	34.98	50.14	0.46
Fiume 72751	376	Q tr 200	11.90	49.75	296.07	298.36	2.29	0.88	0.88	56.46	56.71	0.28
Fiume 72751	376	Q tr 500	11.90	59.86	296.07	298.60	2.53	0.85	0.85	70.59	59.99	0.25
Fiume 72751	364	Q tr 50	7.90	34.80	295.84	297.59	1.75	1.06	0.91	38.03	74.12	0.36
Fiume 72751	364	Q tr 100	7.90	42.19	295.84	298.00	2.16	0.64	0.58	73.34	98.99	0.18
Fiume 72751	364	Q tr 200	7.90	49.75	295.84	298.39	2.54	0.47	0.43	116.76	119.45	0.12
Fiume 72751	364	Q tr 500	7.90	59.86	295.84	298.63	2.79	0.47	0.40	147.92	134.85	0.11
Fiume 72751	356	Q tr 50	20.40	34.80	295.66	297.63	1.97	0.16	0.18	198.79	173.36	0.04
Fiume 72751	356	Q tr 100	20.40	42.19	295.66	298.02	2.36	0.14	0.16	266.55	176.36	0.03
Fiume 72751	356	Q tr 200	20.40	49.75	295.66	298.39	2.73	0.13	0.15	333.15	180.46	0.03
Fiume 72751	356	Q tr 500	20.40	59.86	295.66	298.63	2.97	0.14	0.16	377.09	185.21	0.03
Fiume 72751	335	Q tr 50	6.30	34.80	294.81	297.63	3.23	0.07	0.10	339.61	237.32	0.02
Fiume 72751	335	Q tr 100	6.30	42.19	294.81	298.02	3.62	0.07	0.10	431.80	238.69	0.02
Fiume 72751	335	Q tr 200	6.30	49.75	294.81	298.39	3.99	0.07	0.10	521.56	241.40	0.02
Fiume 72751	335	Q tr 500	6.30	59.86	294.81	298.63	4.23	0.08	0.10	579.77	242.95	0.02
Fiume 72751	329	Q tr 50	6.00	34.80	294.76	297.63	3.23	0.07	0.12	300.04	211.33	0.02
Fiume 72751	329	Q tr 100	6.00	42.19	294.76	298.02	3.62	0.07	0.11	383.44	217.32	0.02
Fiume 72751	329	Q tr 200	6.00	49.75	294.76	298.39	3.99	0.08	0.11	465.49	221.54	0.02
Fiume 72751	329	Q tr 500	6.00	59.86	294.76	298.63	4.23	0.08	0.12	519.11	226.93	0.02
Fiume 72751	300		Bridge									
Fiume 72751	292	Q tr 50	4.90	34.80	294.33	294.84	0.51	5.85	5.85	5.95	13.75	2.84
Fiume 72751	292	Q tr 100	4.90	42.19	294.33	294.90	0.56	6.32	6.32	6.68	13.85	2.91
Fiume 72751	292	Q tr 200	4.90	49.75	294.33	294.95	0.62	6.74	6.74	7.38	13.95	2.96
Fiume 72751	292	Q tr 500	4.90	59.86	294.33	295.01	0.68	7.24	7.24	8.27	14.07	3.02

Reach	River Sta	Profile	Length Chnl	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Vel Chnl	Vel Total	Flow Area	Top Width	Froude # Chl
			(m)	(m3/s)	(m)	(m)	(m)	(m/s)	(m/s)	(m2)	(m)	
Fiume 72751	287	Q tr 50	59.70	34.80	293.69	294.73	1.04	4.13	4.13	8.43	19.10	1.98
Fiume 72751	287	Q tr 100	59.70	42.19	293.69	294.77	1.08	4.57	4.57	9.22	20.31	2.17
Fiume 72751	287	Q tr 200	59.70	49.75	293.69	294.82	1.13	4.76	4.76	10.46	26.58	2.42
Fiume 72751	287	Q tr 500	59.70	59.86	293.69	294.86	1.17	5.26	5.26	11.37	28.46	2.66
Fiume 72751	227	Q tr 50	23.20	34.80	292.92	294.67	1.75	0.73	0.73	47.69	55.36	0.25
Fiume 72751	227	Q tr 100	23.20	42.19	292.92	295.09	2.17	0.58	0.58	72.60	64.49	0.17
Fiume 72751	227	Q tr 200	23.20	49.75	292.92	295.14	2.22	0.66	0.66	75.76	65.44	0.19
Fiume 72751	227	Q tr 500	23.20	59.86	292.92	295.19	2.27	0.75	0.75	79.55	66.52	0.22
Fiume 72751	204	Q tr 50	24.70	34.80	291.83	294.67	2.84	0.41	0.41	85.15	74.50	0.12
Fiume 72751	204	Q tr 100	24.70	42.19	291.83	295.09	3.26	0.36	0.36	117.81	80.75	0.09
Fiume 72751	204	Q tr 200	24.70	49.75	291.83	295.14	3.31	0.41	0.41	121.78	81.32	0.11
Fiume 72751	204	Q tr 500	24.70	59.86	291.83	295.20	3.37	0.47	0.47	126.53	82.33	0.12
Fiume 72751	180	Q tr 50	24.20	34.80	291.84	294.67	2.83	0.28	0.28	125.10	76.78	0.07
Fiume 72751	180	Q tr 100	24.20	42.19	291.84	295.09	3.25	0.26	0.26	160.68	99.26	0.07
Fiume 72751	180	Q tr 200	24.20	49.75	291.84	295.14	3.30	0.30	0.30	165.58	100.78	0.07
Fiume 72751	180	Q tr 500	24.20	59.86	291.84	295.19	3.35	0.35	0.35	171.47	102.61	0.09
Fiume 72751	155	Q tr 50	8.70	34.80	291.80	294.67	2.87	0.20	0.20	175.31	102.37	0.05
Fiume 72751	155	Q tr 100	8.70	42.19	291.80	295.09	3.29	0.19	0.19	222.13	118.91	0.04
Fiume 72751	155	Q tr 200	8.70	49.75	291.80	295.14	3.34	0.22	0.22	228.00	120.63	0.05
Fiume 72751	155	Q tr 500	8.70	59.86	291.80	295.20	3.39	0.26	0.25	235.08	123.42	0.06
Fiume 72751	147	Q tr 50	15.00	34.80	291.60	294.67	3.07	0.19	0.19	182.38	101.36	0.05
Fiume 72751	147	Q tr 100	15.00	42.19	291.60	295.09	3.49	0.18	0.18	228.89	121.60	0.04
Fiume 72751	147	Q tr 200	15.00	49.75	291.60	295.14	3.54	0.21	0.21	234.88	122.97	0.05
Fiume 72751	147	Q tr 500	15.00	59.86	291.60	295.19	3.59	0.25	0.25	242.06	125.66	0.06
Fiume 72751	120		Bridge									
Fiume 72751	115	Q tr 50	5.60	34.80	290.34	290.65	0.31	4.74	4.74	7.34	49.16	3.92
Fiume 72751	115	Q tr 100	5.60	42.19	290.34	290.66	0.32	5.41	5.41	7.80	51.14	4.43
Fiume 72751	115	Q tr 200	5.60	49.75	290.34	290.66	0.32	6.47	6.47	7.69	50.67	5.30
Fiume 72751	115	Q tr 500	5.60	59.86	290.34	290.66	0.32	7.57	7.57	7.91	51.62	6.18
Fiume 72751	109	Q tr 50	10.70	34.80	289.81	290.29	0.48	2.19	2.19	15.89	80.65	1.58
Fiume 72751	109	Q tr 100	10.70	42.19	289.81	290.30	0.49	2.45	2.45	17.22	82.87	1.72
Fiume 72751	109	Q tr 200	10.70	49.75	289.81	290.31	0.50	2.80	2.80	17.75	83.66	1.94
Fiume 72751	109	Q tr 500	10.70	59.86	289.81	290.32	0.51	3.22	3.22	18.58	85.17	2.20
Fiume 72751	98	Q tr 50	13.10	34.80	289.08	289.75	0.67	2.04	2.00	17.39	55.95	1.12
Fiume 72751	98	Q tr 100	13.10	42.19	289.08	289.86	0.78	1.60	1.66	25.49	99.12	1.01
Fiume 72751	98	Q tr 200	13.10	49.75	289.08	289.90	0.82	1.59	1.65	30.07	113.31	0.99
Fiume 72751	98	Q tr 500	13.10	59.86	289.08	289.94	0.86	1.67	1.75	34.28	120.06	1.01
Fiume 72751	85	Q tr 50	18.80	34.80	288.35	288.81	0.46	2.96	2.96	11.75	37.23	1.68
Fiume 72751	85	Q tr 100	18.80	42.19	288.35	288.86	0.51	3.03	3.03	13.91	42.41	1.69
Fiume 72751	85	Q tr 200	18.80	49.75	288.35	288.92	0.57	3.03	3.03	16.43	52.22	1.72
Fiume 72751	85	Q tr 500	18.80	59.86	288.35	288.98	0.63	3.00	3.00	19.98	66.02	1.72
Fiume 72751	66	Q tr 50	29.90	34.80	287.80	288.26	0.46	1.44	1.44	24.08	119.49	1.03
Fiume 72751	66	Q tr 100	29.90	42.19	287.80	288.29	0.49	1.53	1.53	27.56	120.40	1.02
Fiume 72751	66	Q tr 200	29.90	49.75	287.80	288.31	0.51	1.61	1.61	30.82	121.37	1.02
Fiume 72751	66	Q tr 500	29.90	59.86	287.80	288.35	0.55	1.69	1.69	35.33	124.97	1.02
Fiume 72751	36	Q tr 50		34.80	286.72	287.22	0.50	0.97	1.05	33.07	111.18	0.58
Fiume 72751	36	Q tr 100		42.19	286.72	287.26	0.54	1.05	1.13	37.25	111.88	0.59
Fiume 72751	36	Q tr 200		49.75	286.72	287.29	0.57	1.12	1.21	41.25	112.70	0.60
Fiume 72751	36	Q tr 500		59.86	286.72	287.34	0.62	1.20	1.29	46.40	114.42	0.61