



REGIONE AUTONOMA DELLA SARDEGNA



COMUNE DI SASSARI

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**STUDIO DI ASSETTO IDRAULICO DEL
TERRITORIO COMUNALE
VARIANTE AL PAI
ai sensi dell'Art. 37 c. 3 delle N.A.
Aggiornamento a seguito di prescrizioni
(prot. n. 12928 del 30.12.2020)**

DATA: Febbraio 2021	SCALA:	REV: 0	ALLEGATO:
ELABORATO: Simulazioni in moto permanente (RIO FIUME SANTO - STAGNO DI PILO - LAGO DI BARATZ)			C-4
TECNICO INCARICATO: Dott. Ing. Alessia Vargiu  ORDINE INGEGNERI PROVINCIA CAGLIARI N. 3934 Dott. Ing. ALESSIA VARGIU			COLLABORATORI: Dott. Ing. Pier Franco Azzena Dott. Ing. Michela Cardia Geom. Luisa Antonetti CONSULENTI: Dott. Ing. Fabio Cambula Dott. Ing. Marco Pani Dott. Ing. Silvia Pisano
DIRIGENTE SETTORE PIANIFICAZIONE TERRITORIALE, PAESAGGIO E SVILUPPO TURISTICO Dott. Ing. Giovanni Antonio Pisoni			

COMUNE DI SASSARI

Studio di Assetto Idraulico del territorio comunale

Variante al PAI ai sensi dell'art. 374 c.3 delle N.A.

Aggiornamento a seguito di prescrizioni (prot. N. 12928 del 30.12.2020)

Area di indagine: **TERRITORIO COMUNALE**

SIMULAZIONI IN MOTO PERMANENTE

Il presente elaborato contiene i seguenti modelli:

17. Gruppo Rio Fiume Santo

18. Stagno Di Pilo

19. Lago Di Baratz

COMUNE DI SASSARI

Studio di Assetto Idraulico del territorio comunale

Variante al PAI ai sensi dell'art. 374 c.3 delle N.A.

Aggiornamento a seguito di prescrizioni (prot. N. 12928 del 30.12.2020)

Area di indagine: **TERRITORIO COMUNALE**

SIMULAZIONI IN MOTO PERMANENTE

Modello 17 : Rio Fiume Santo

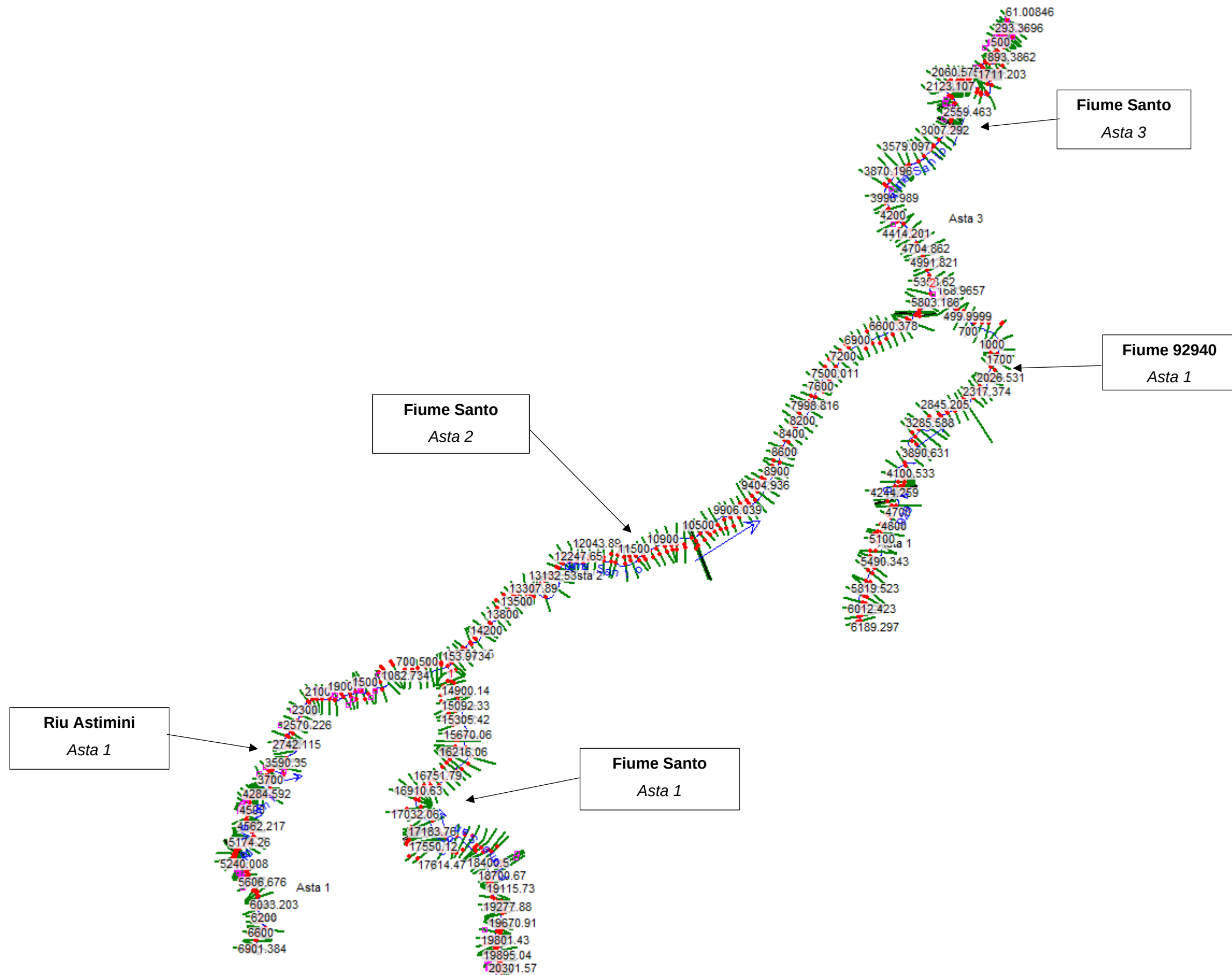
Componenti:

Fiume 92940
Riu Astimini
Rio Fiume Santo

- Schema planimetrico del modello matematico;
- Profili longitudinali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Sezioni trasversali con livelli idrici per tempi di ritorno 50, 100, 200 e 500 anni;
- Tabulati numerici di output per tempi di ritorno 50, 100, 200 e 500 anni;
- Calcolo della portata critica;
- Profilo longitudinale del livello idrico per il tempo di ritorno critico TC;
- Verifica dei franchi idraulici e della portata critica;

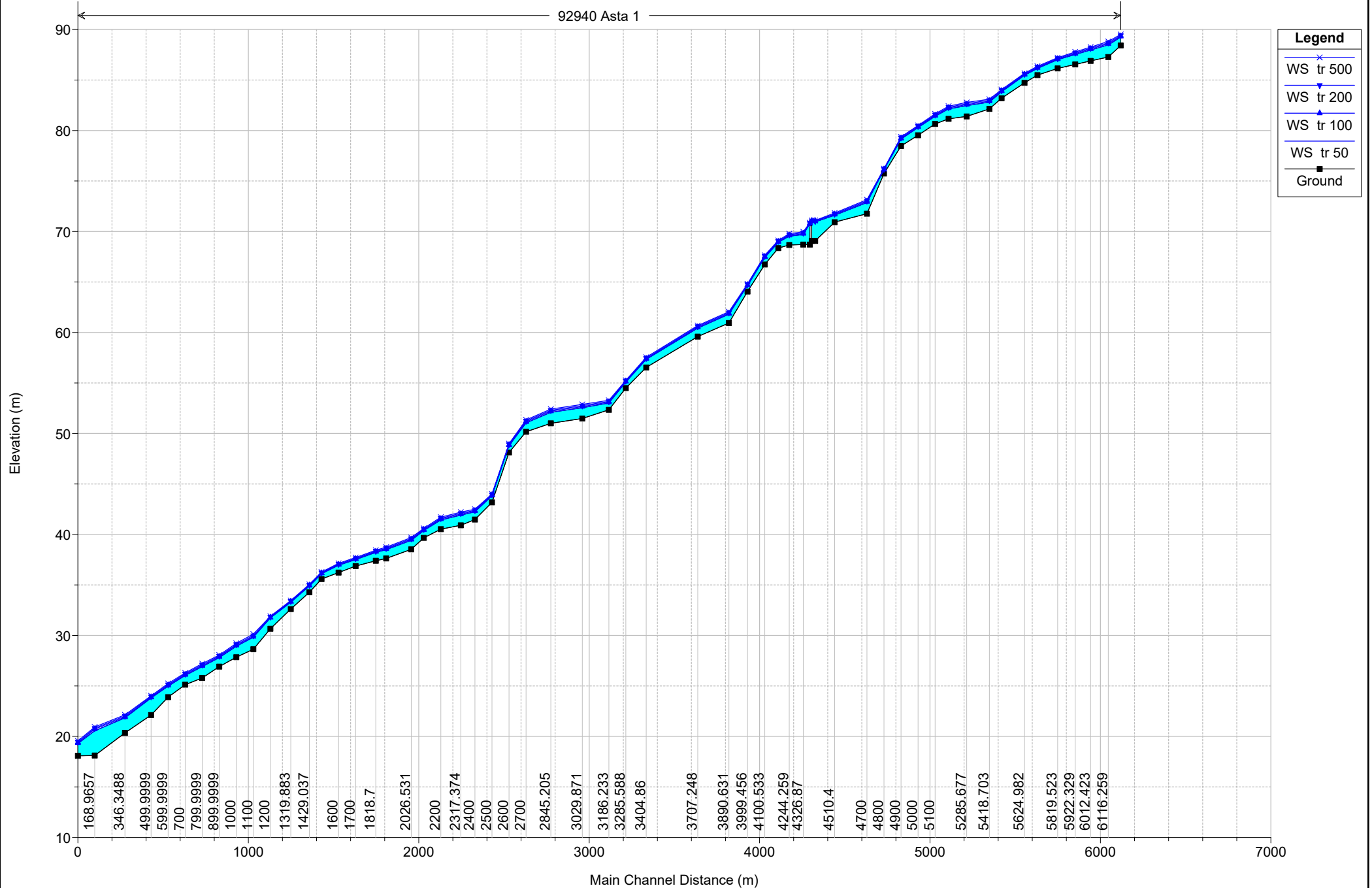
River	Reach	RS	PORTATE mc/s			
			tr 50	tr 100	tr 200	tr 500
92940	Asta 1	6189.297	104.472	128.025	152.168	184.757
92940	Asta 1	1100	128.476	155.747	183.526	220.81
Fiume Santo	Asta 1	20301.57	93.993	113.726	133.842	160.917
Fiume Santo	Asta 2	14581.45	191.367	227.93	264.851	314.036
Fiume Santo	Asta 2	10178.65	212.151	251.766	291.679	344.732
Fiume Santo	Asta 3	5200	337.209	400.011	463.257	547.285
Riu Astimini	Asta 1	6901.384	68.68	83.028	97.629	117.213

			condizioni al contorno	
River	Reach	PROFILI	upstream	downstream
92940	Asta 1	all	Critical Depth	Junction=2
Fiume Santo	Asta 1	all	Critical Depth	Junction=1
Fiume Santo	Asta 2	all	Junction=1	Junction=2
Fiume Santo	Asta 3	all	Junction=2	Known WS
Riu Astimini	Asta 1	all	Critical Depth	Junction=1



fiumesanto22022017 Plan: Plan 02 2/9/2021

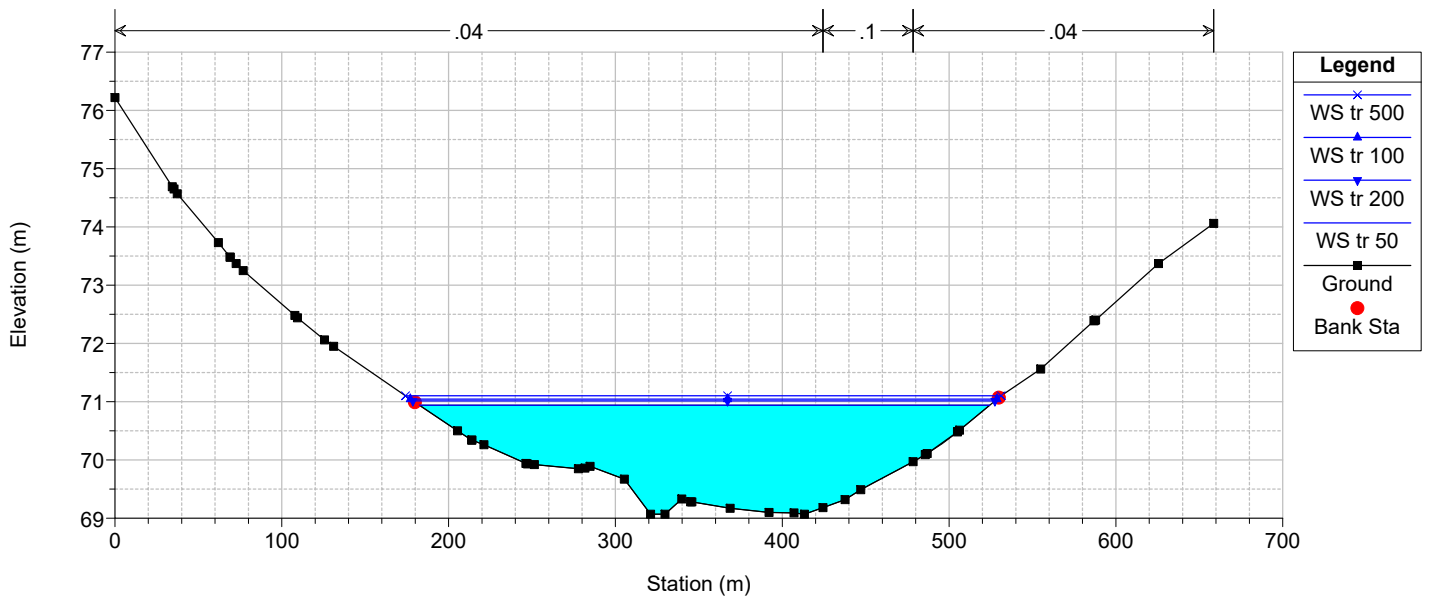
Geom: fiumesanto27022017 Flow: fiumesanto22022017 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

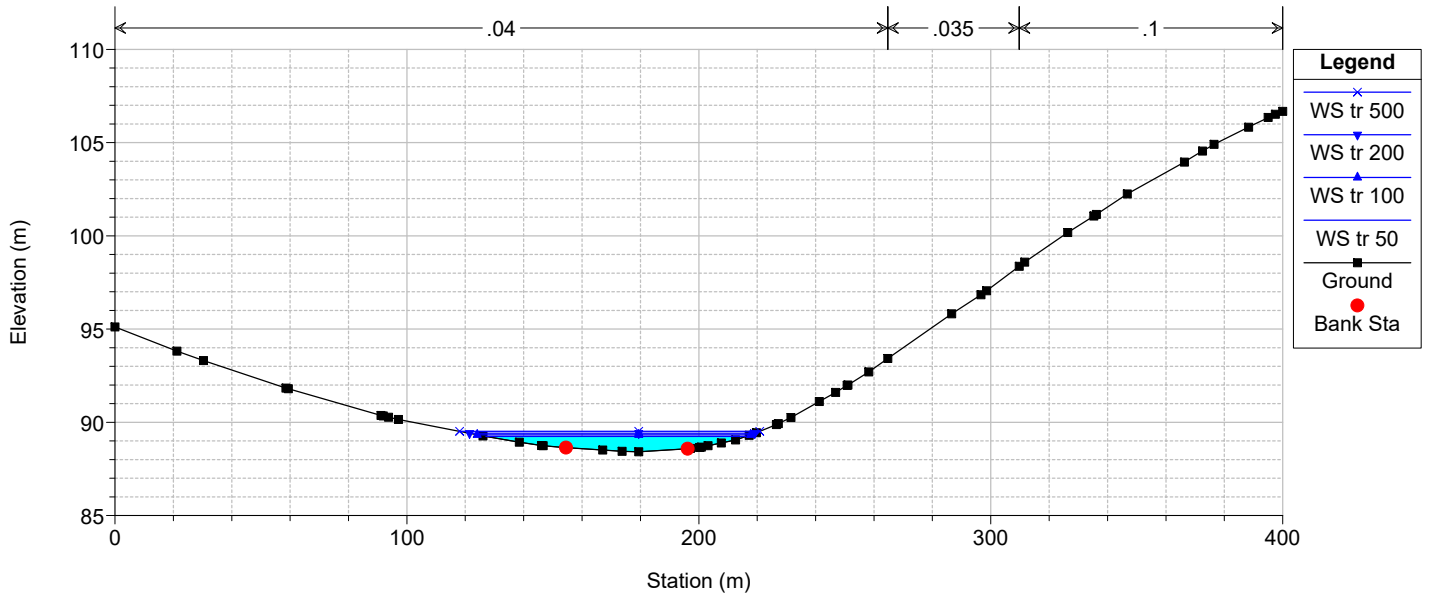
River = 92940 Reach = Asta 1 RS = 4396.537 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

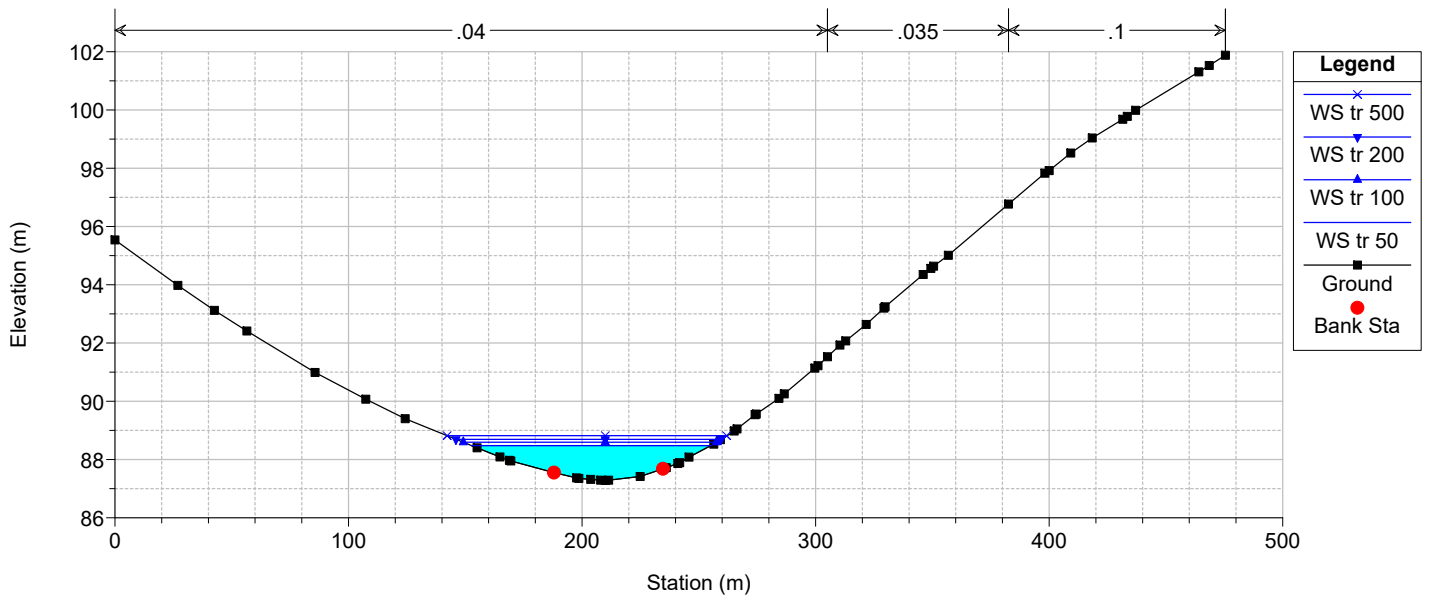
River = 92940 Reach = Asta 1 RS = 6189.297 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

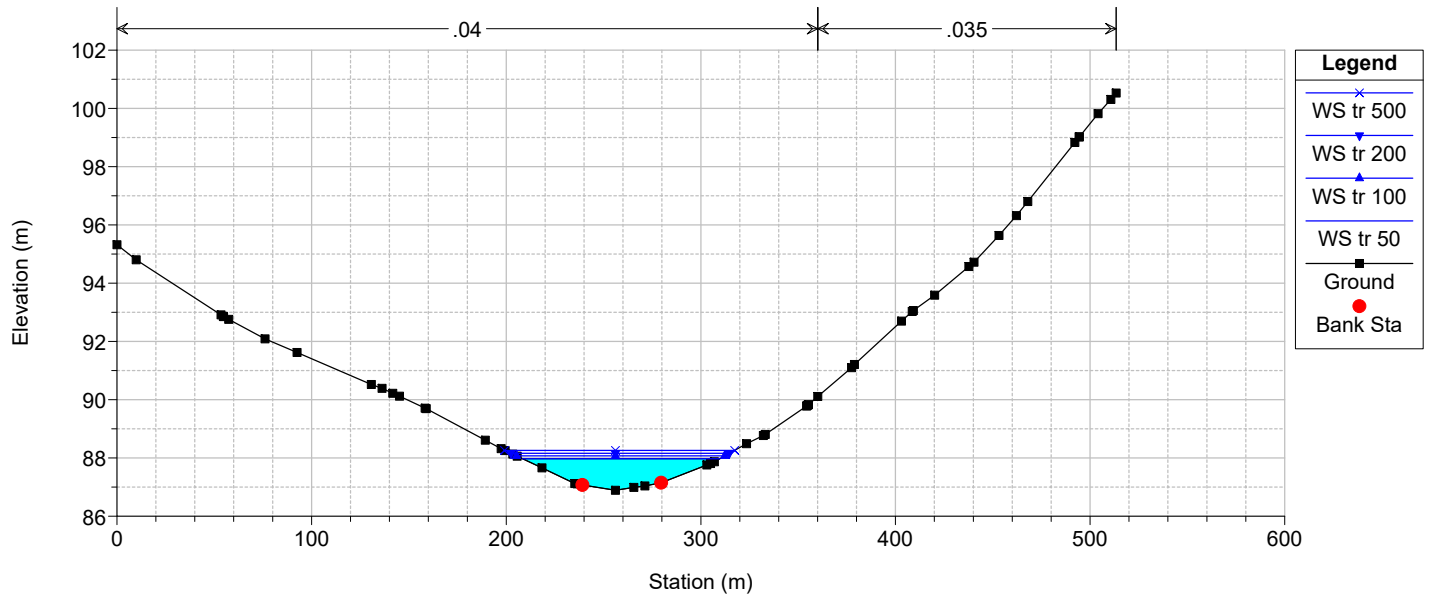
River = 92940 Reach = Asta 1 RS = 6116.259 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

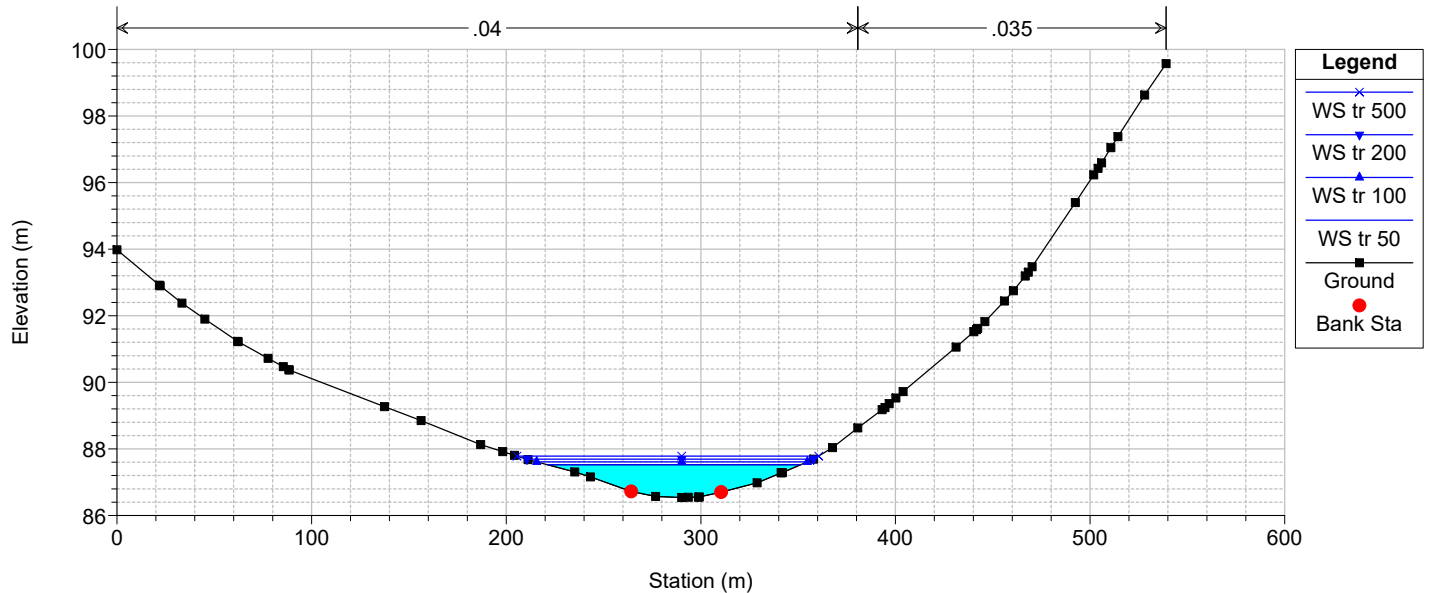
River = 92940 Reach = Asta 1 RS = 6012.423 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

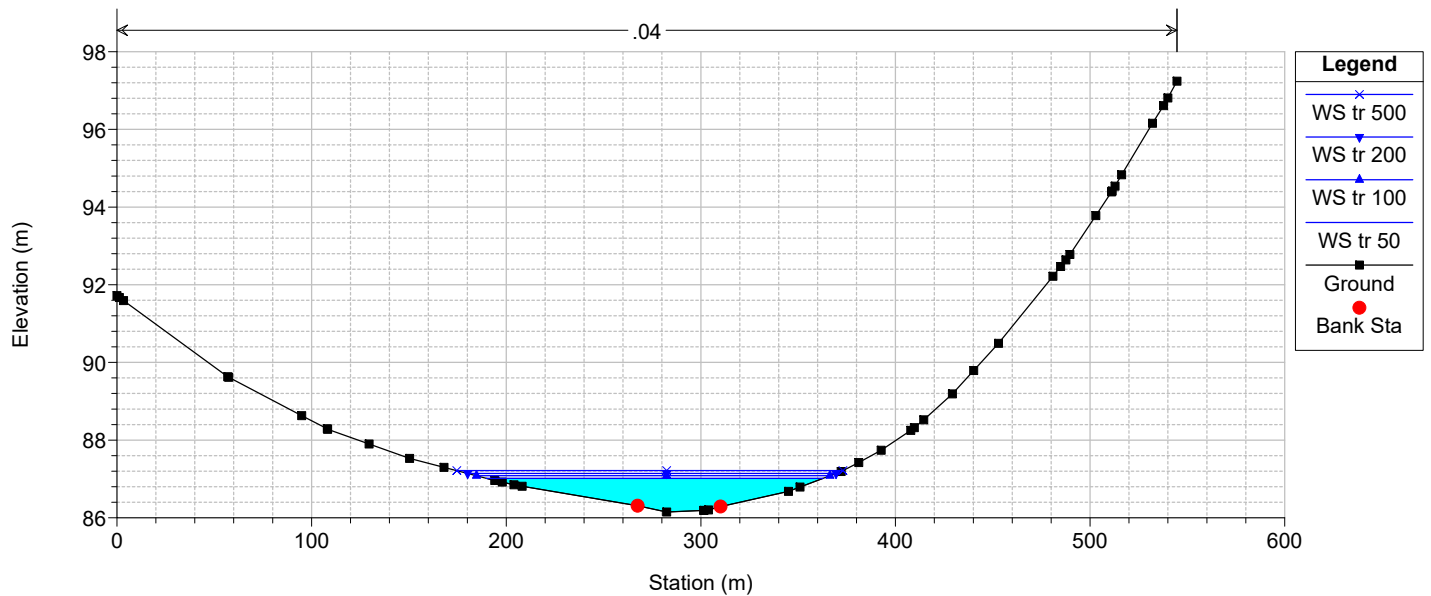
River = 92940 Reach = Asta 1 RS = 5922.329 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

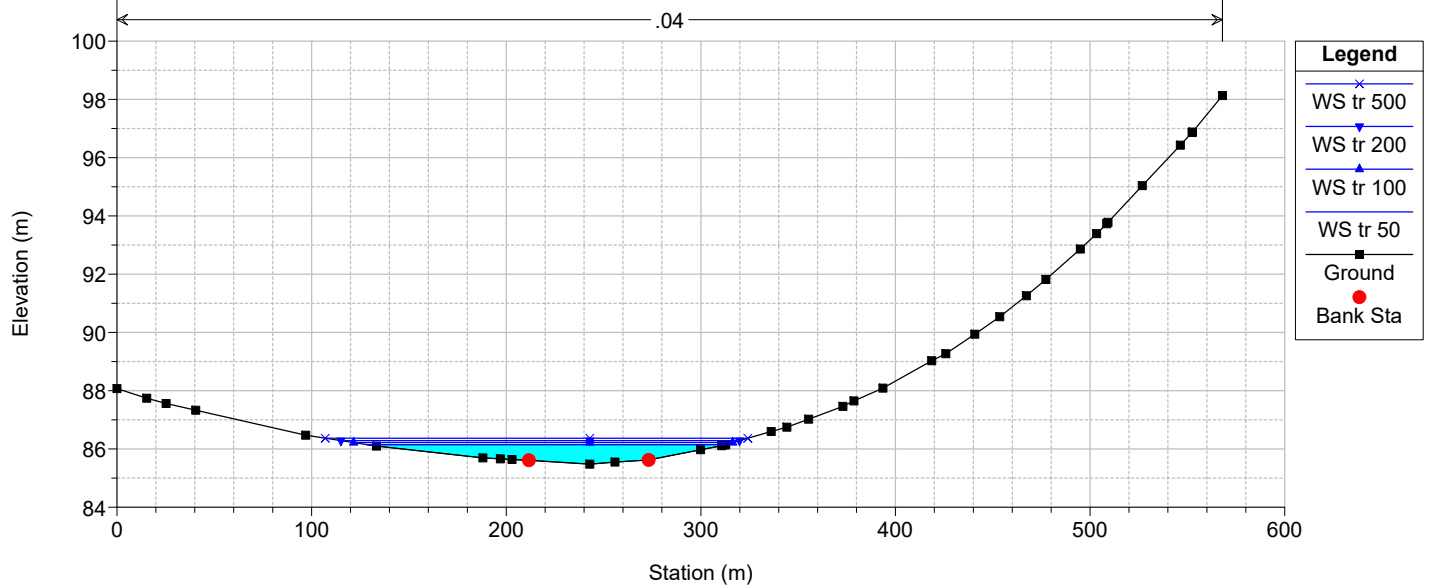
River = 92940 Reach = Asta 1 RS = 5819.523 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

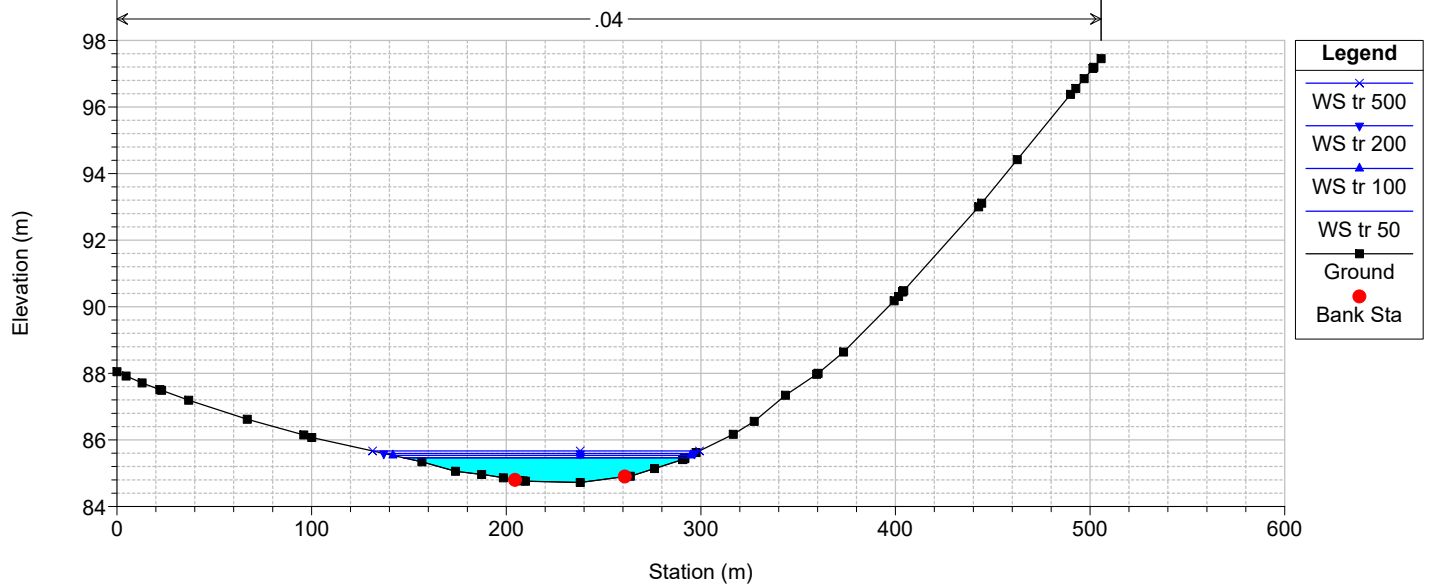
River = 92940 Reach = Asta 1 RS = 5701.227 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

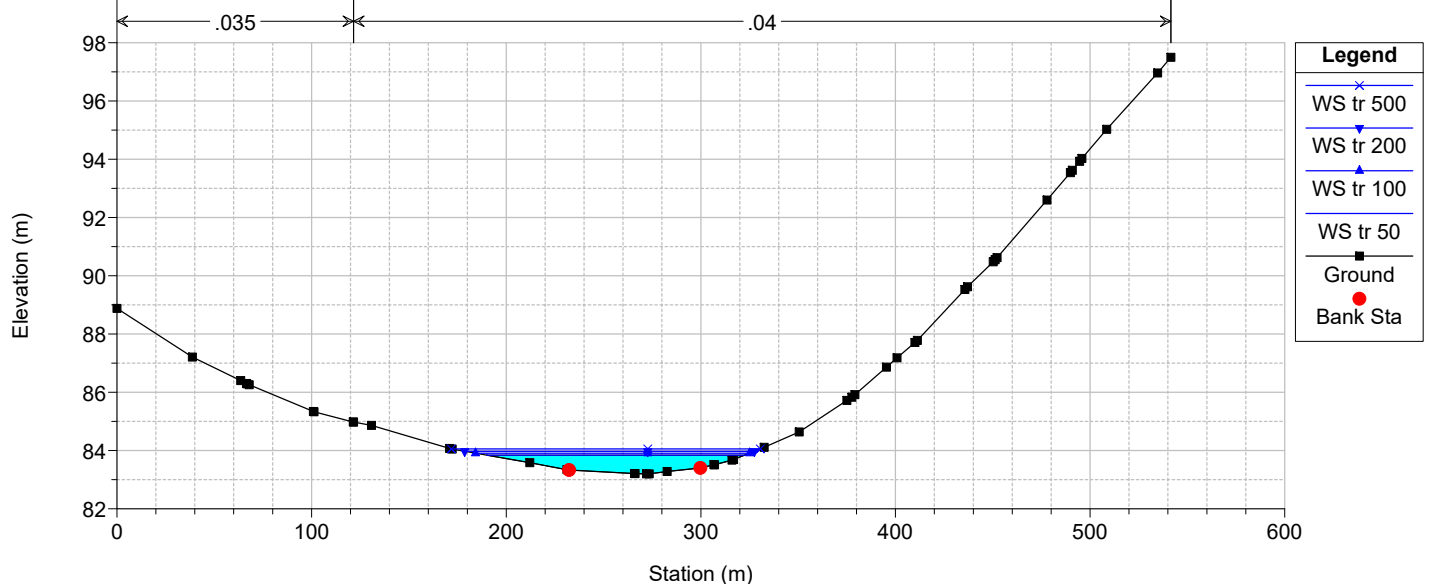
River = 92940 Reach = Asta 1 RS = 5624.982 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

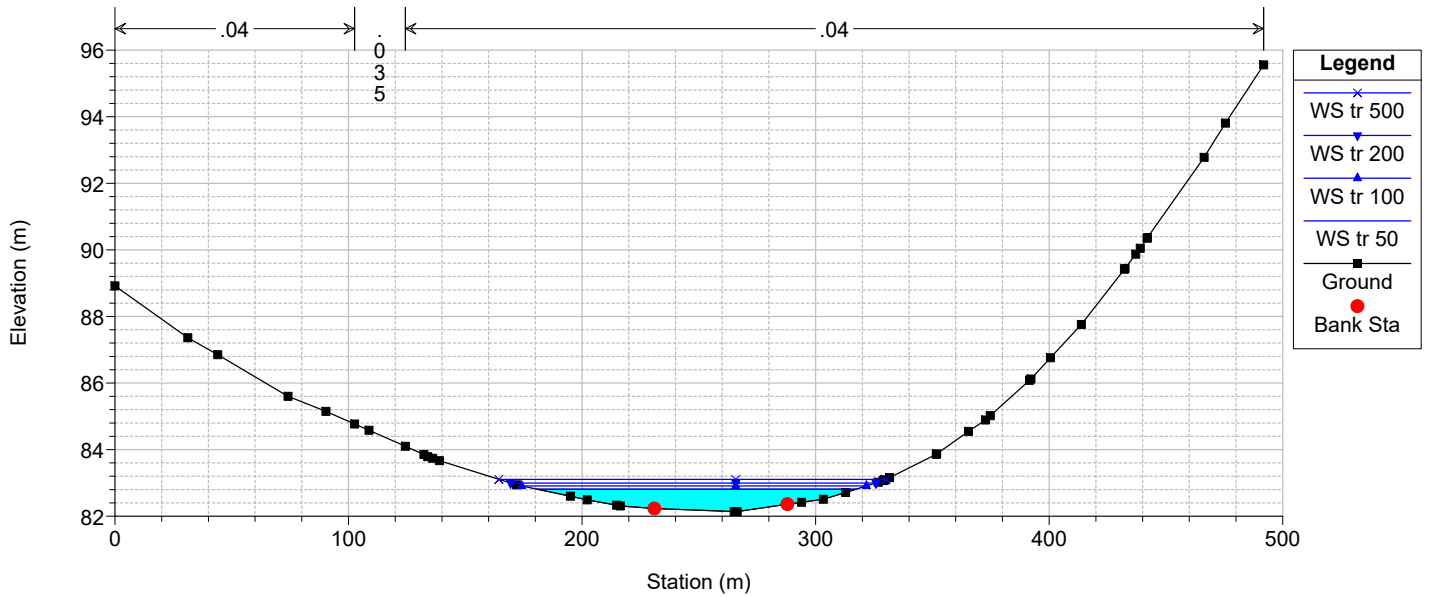
River = 92940 Reach = Asta 1 RS = 5490.343 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

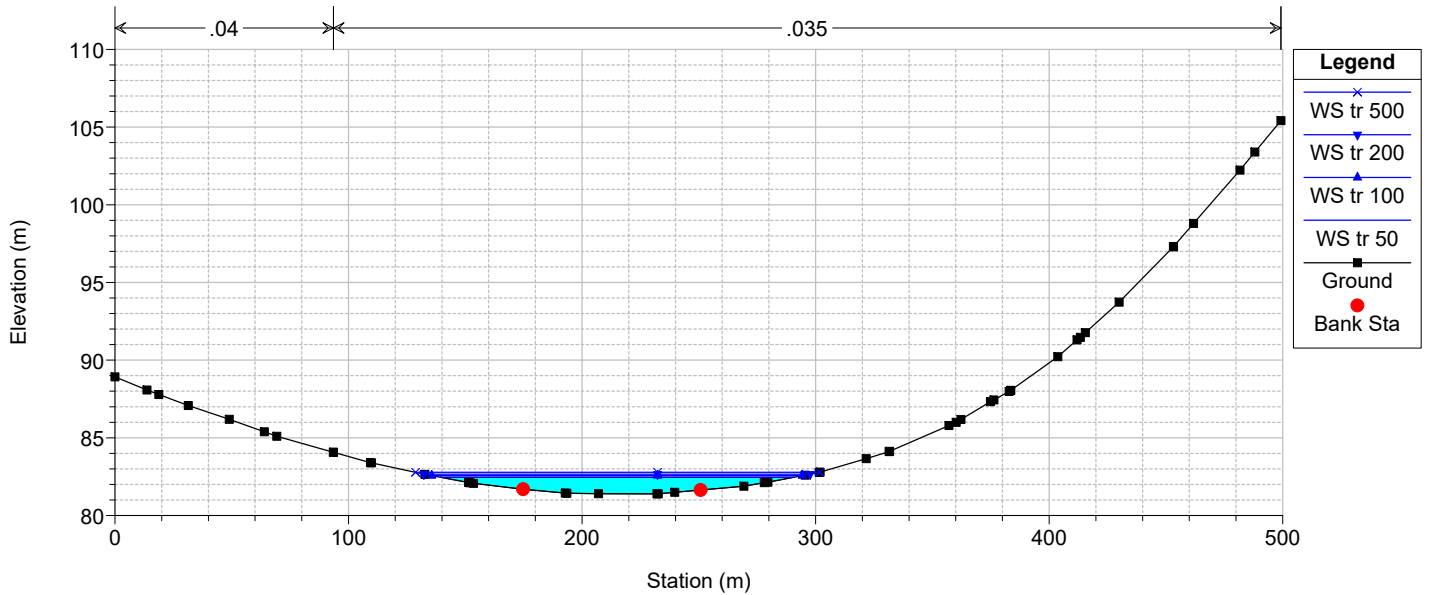
River = 92940 Reach = Asta 1 RS = 5418.703 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

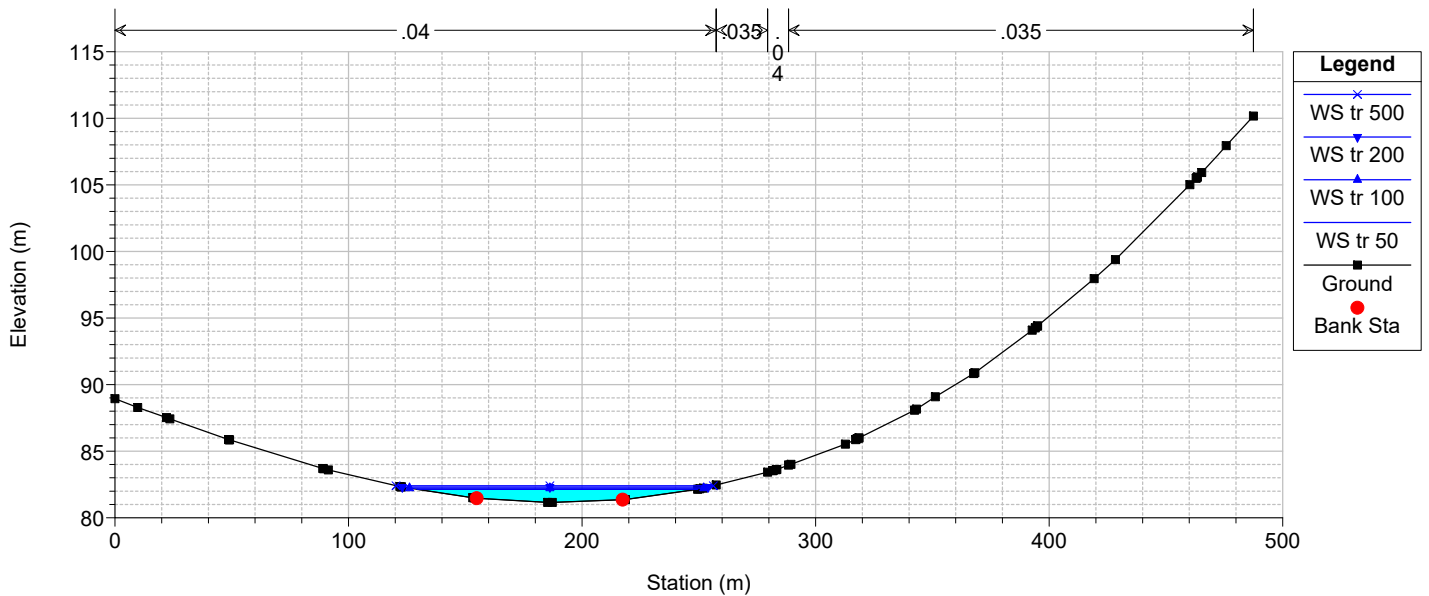
River = 92940 Reach = Asta 1 RS = 5285.677 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

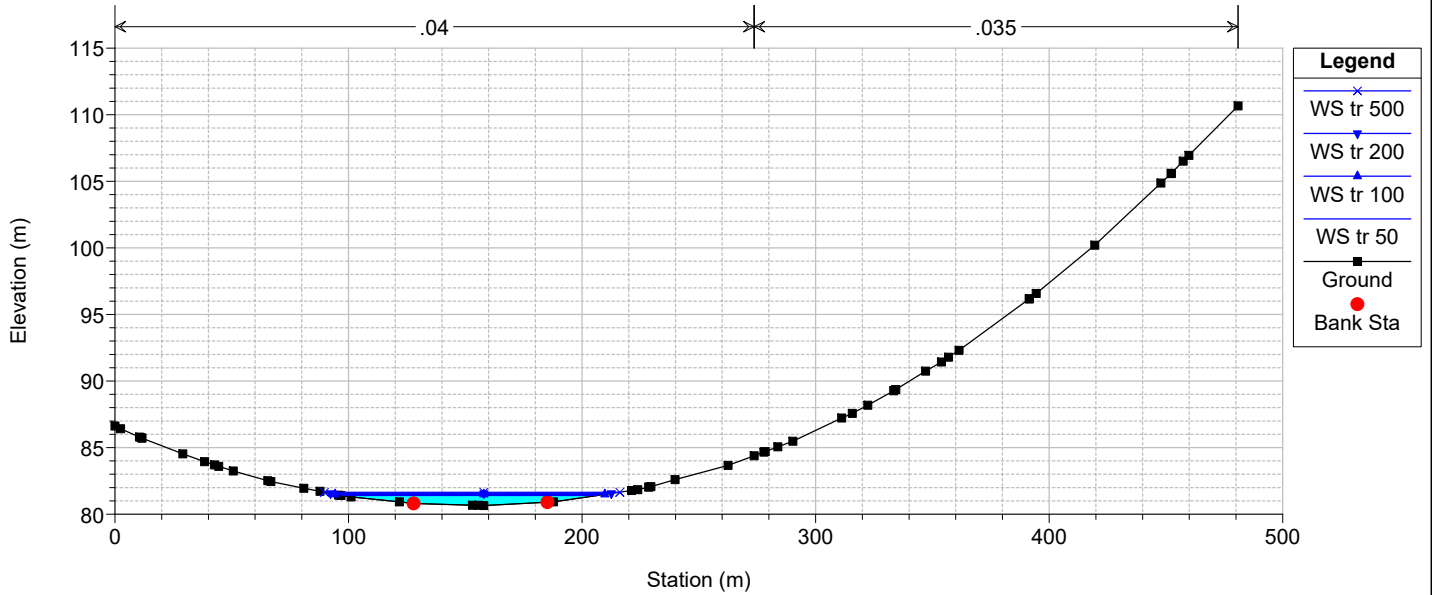
River = 92940 Reach = Asta 1 RS = 5179.22 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

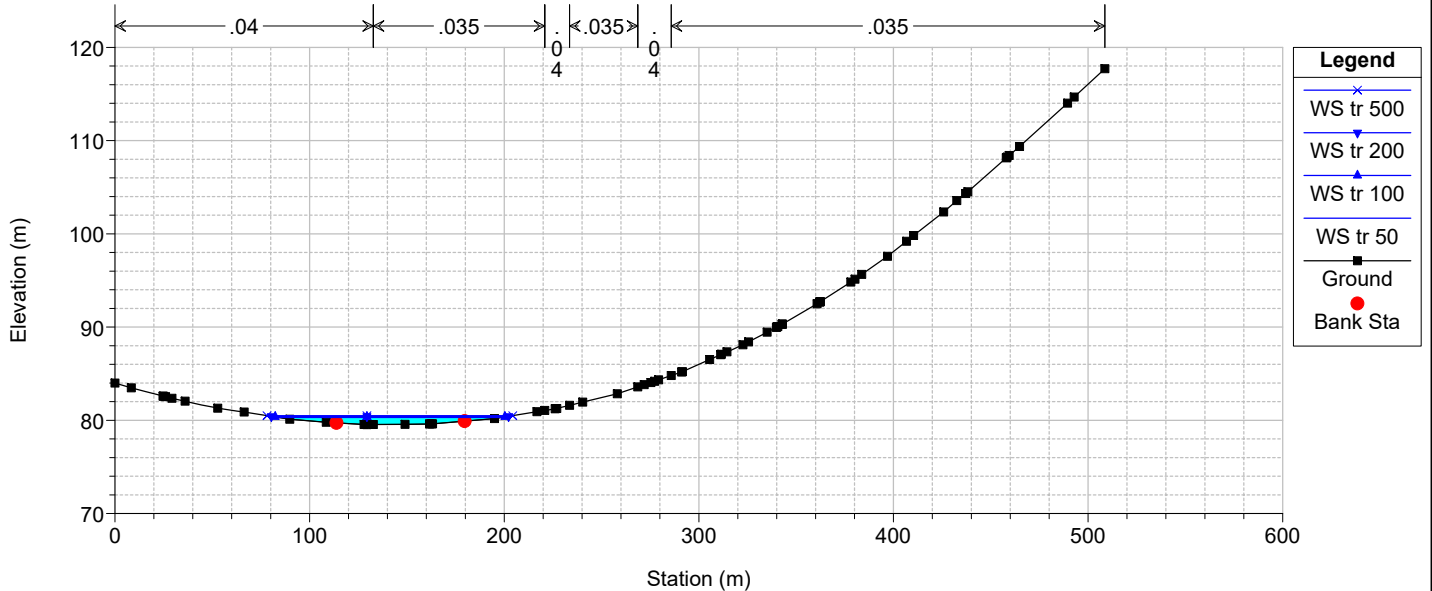
River = 92940 Reach = Asta 1 RS = 5100 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

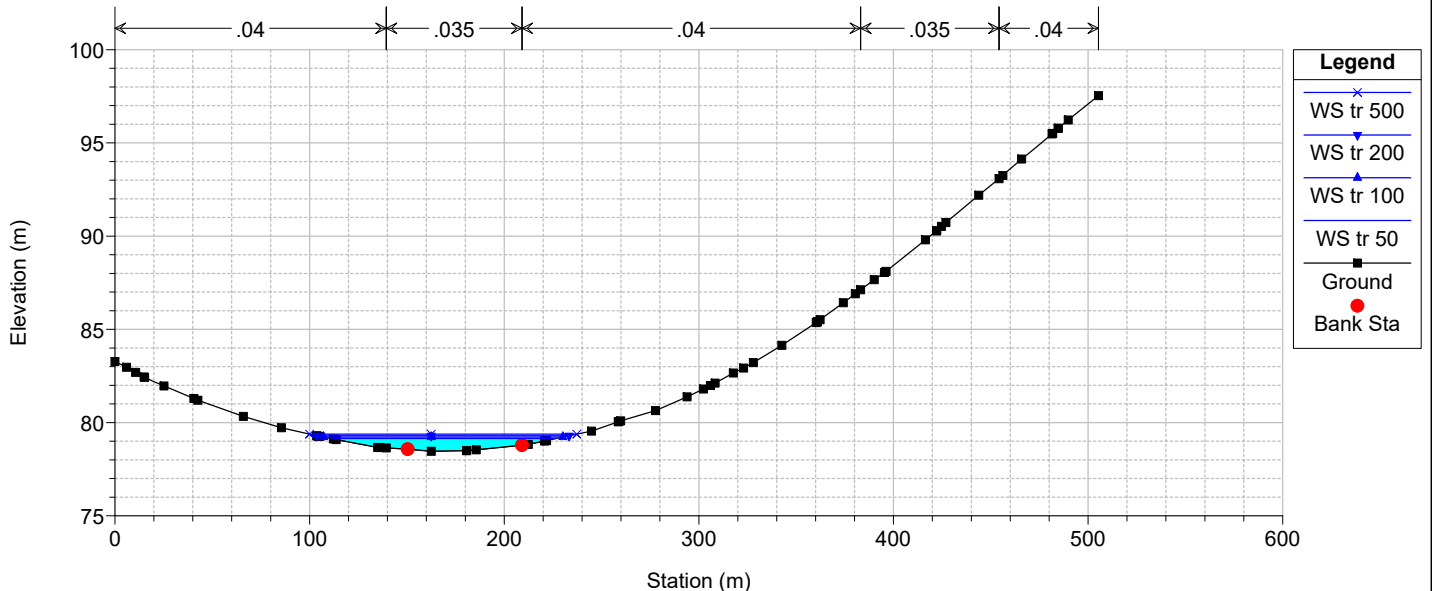
River = 92940 Reach = Asta 1 RS = 5000 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

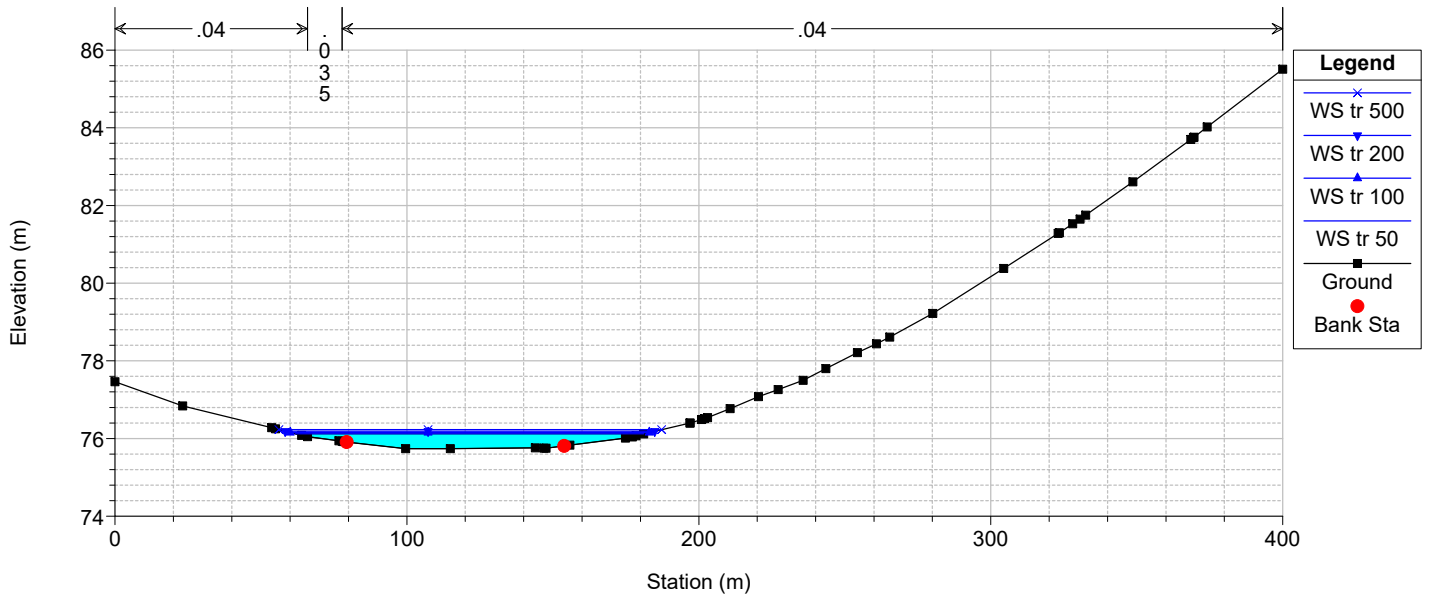
River = 92940 Reach = Asta 1 RS = 4900 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

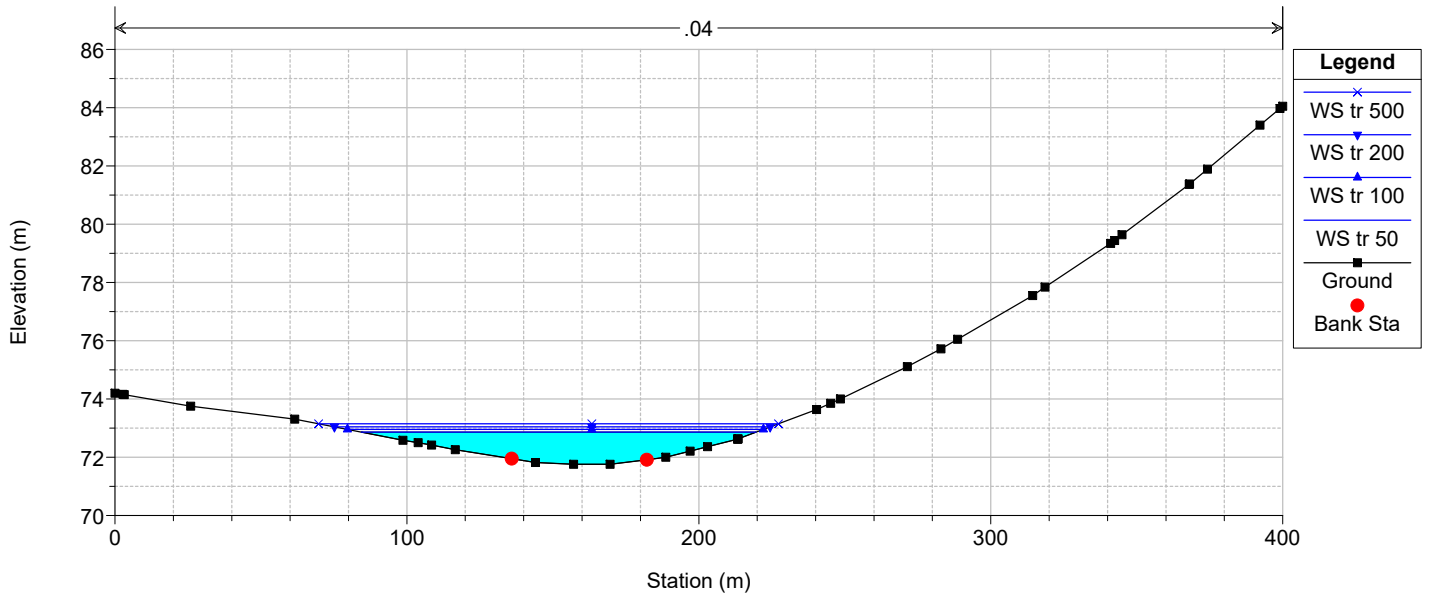
River = 92940 Reach = Asta 1 RS = 4800 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

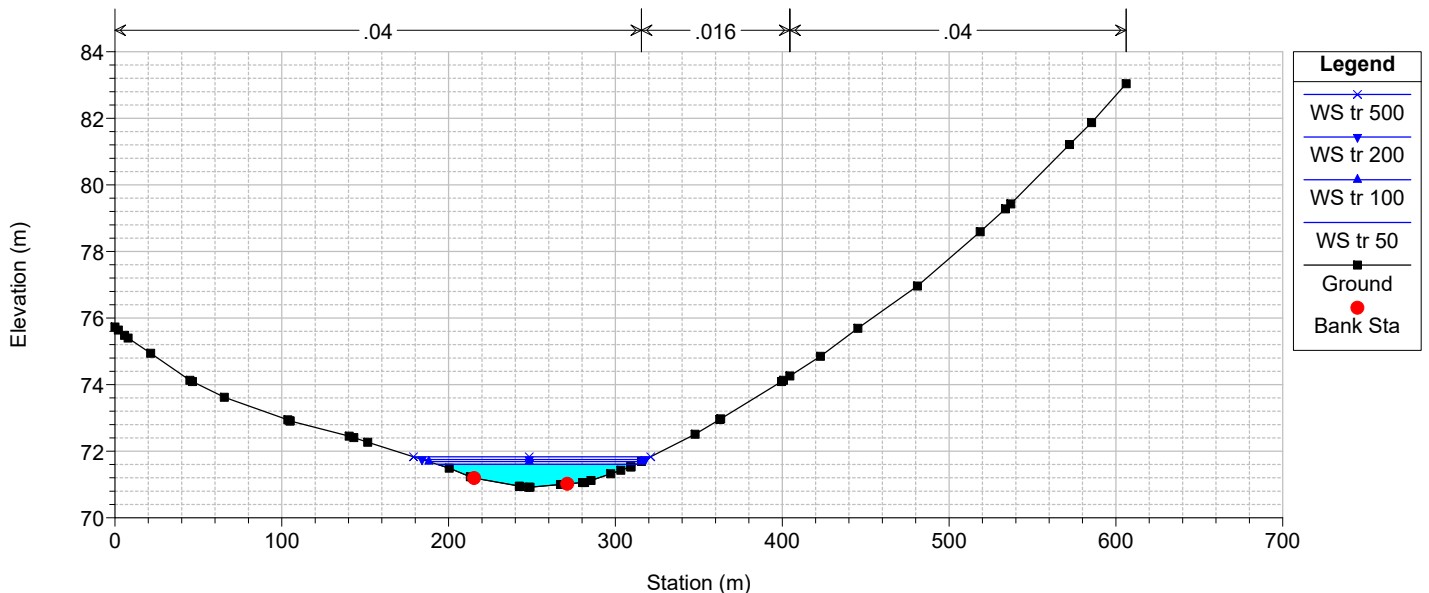
River = 92940 Reach = Asta 1 RS = 4700 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

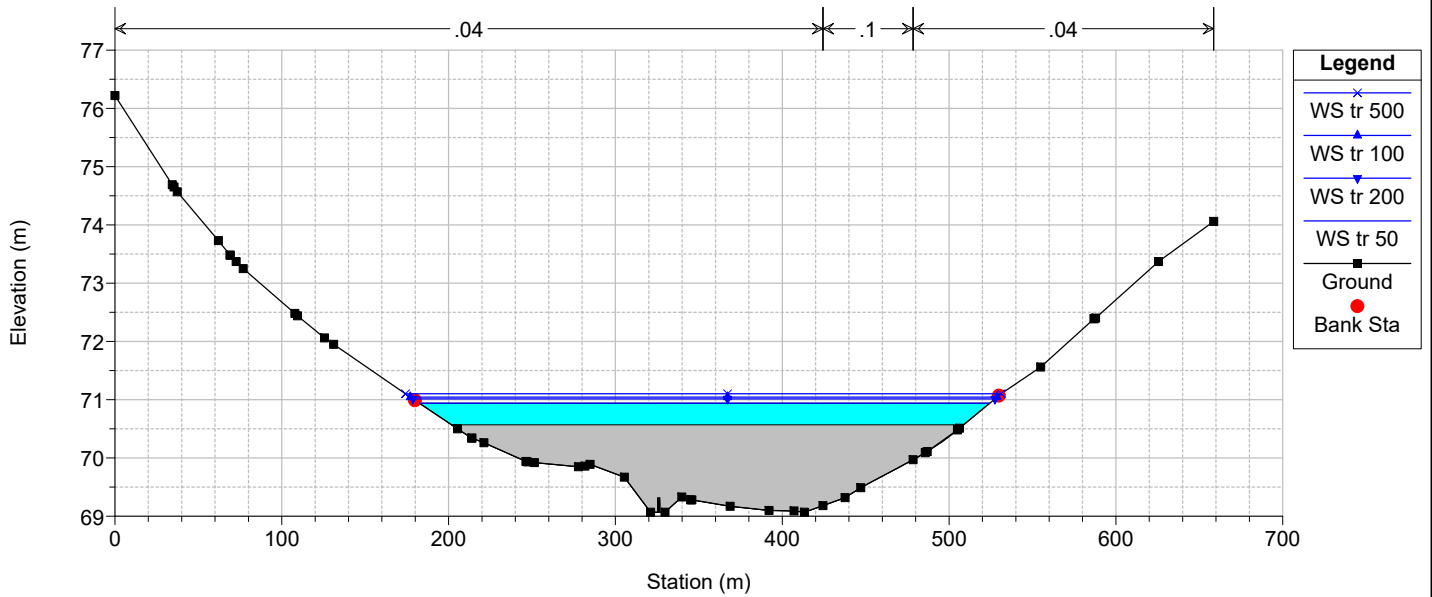
River = 92940 Reach = Asta 1 RS = 4510.4 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

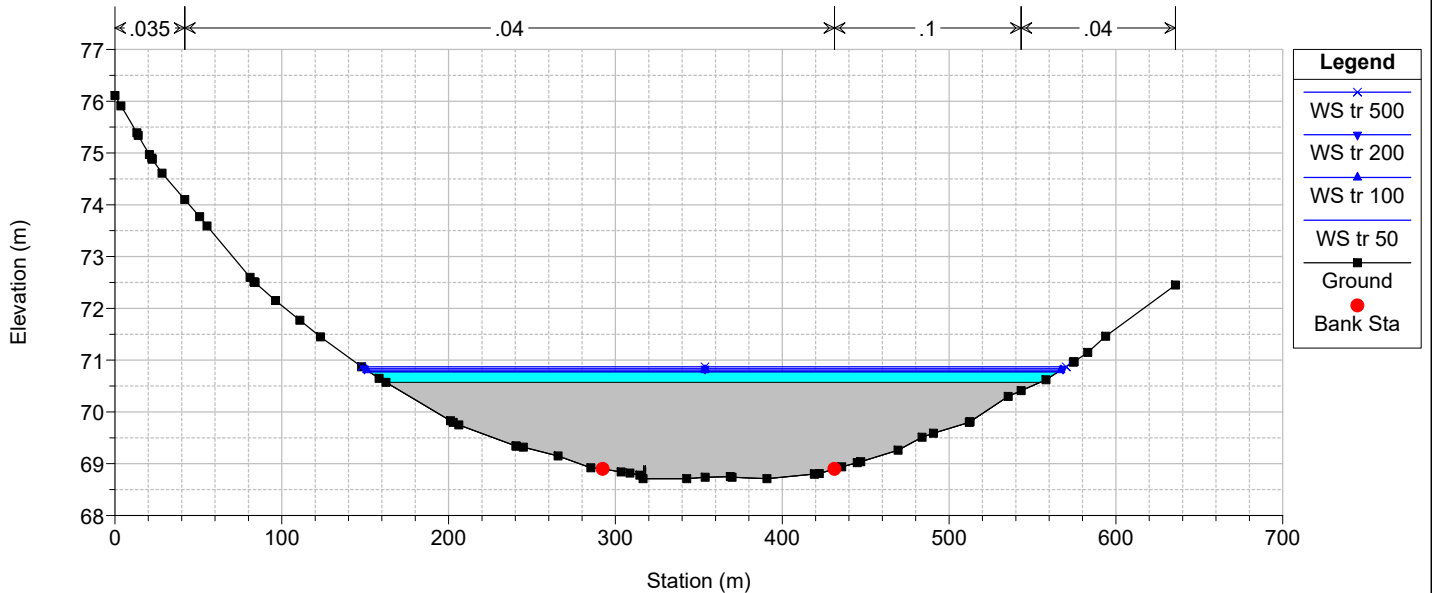
River = 92940 Reach = Asta 1 RS = 4363.739 Culv B15 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

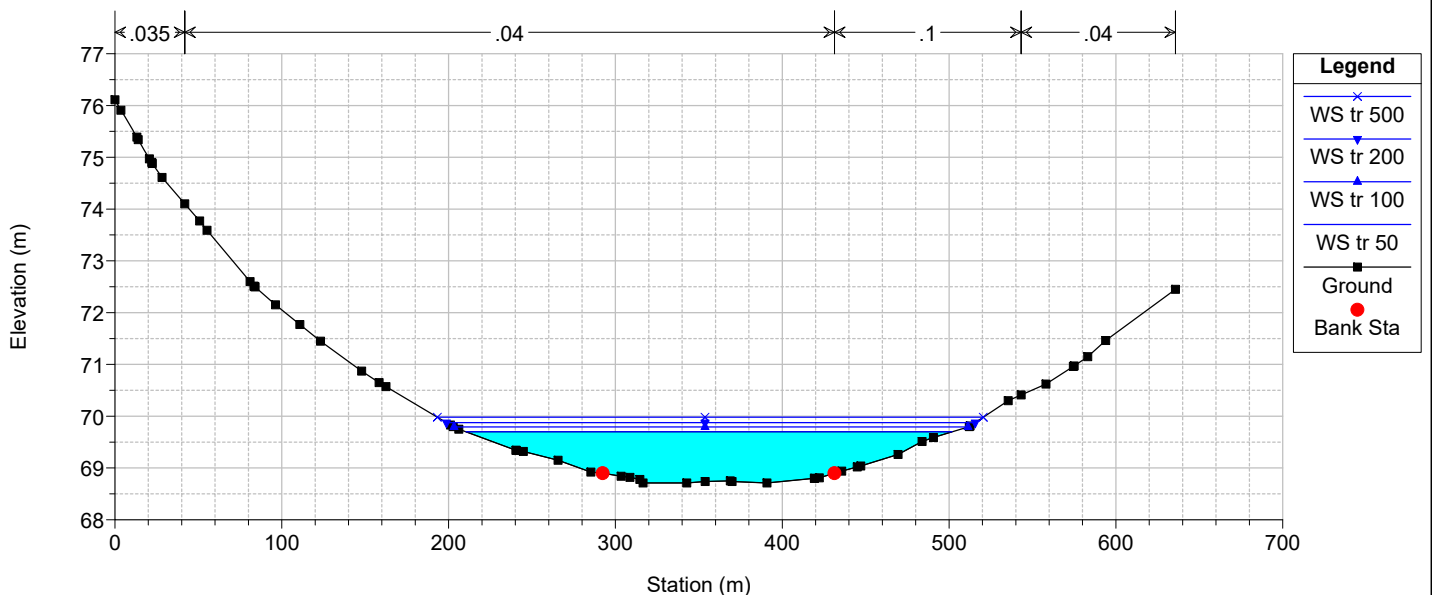
River = 92940 Reach = Asta 1 RS = 4363.739 Culv B15 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

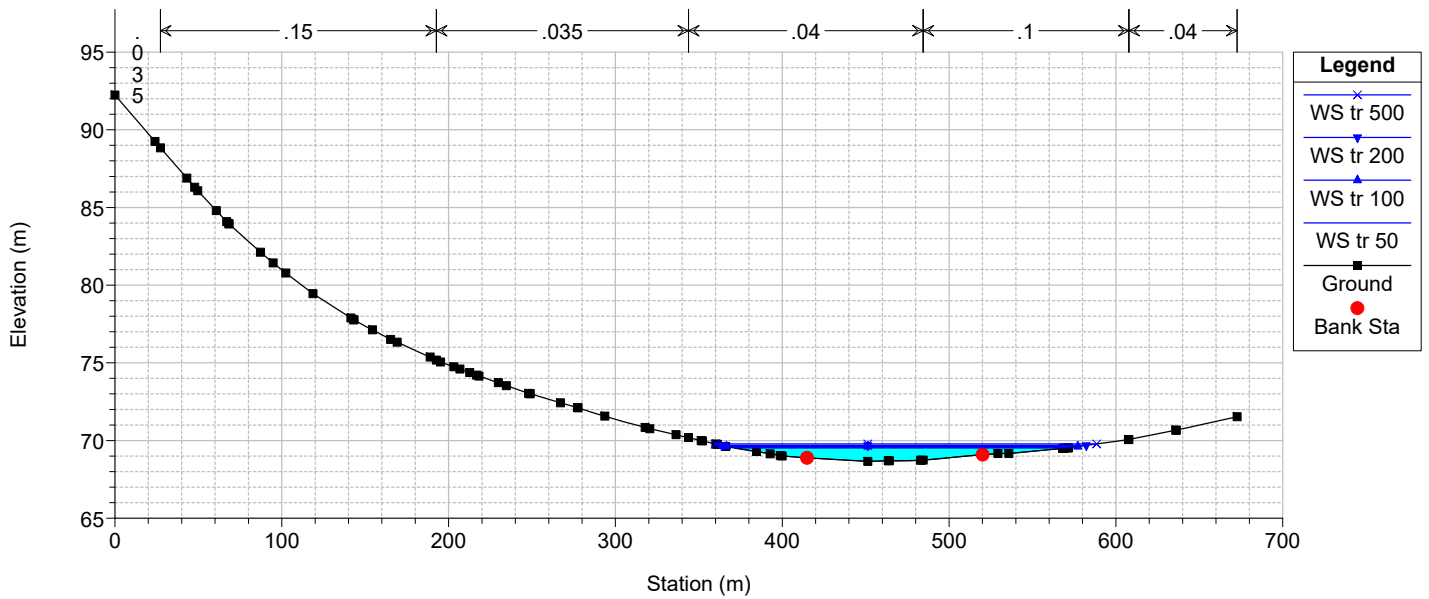
River = 92940 Reach = Asta 1 RS = 4326.87 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

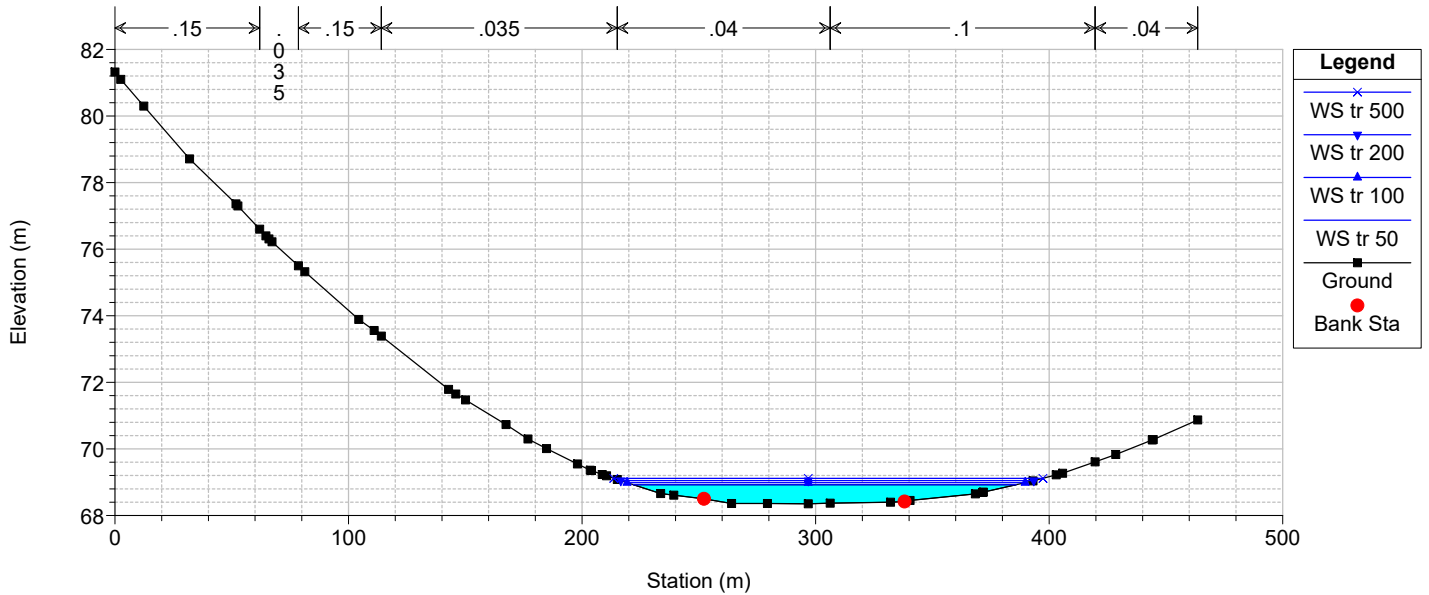
River = 92940 Reach = Asta 1 RS = 4244.259 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

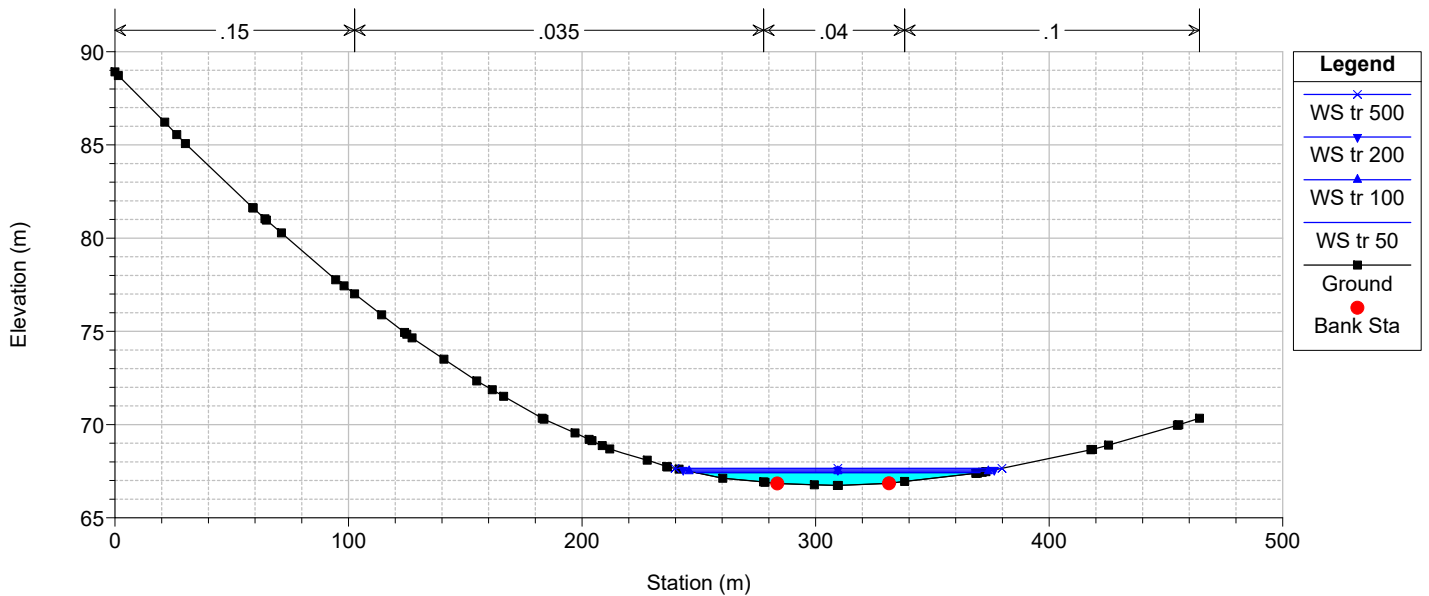
River = 92940 Reach = Asta 1 RS = 4179.926 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

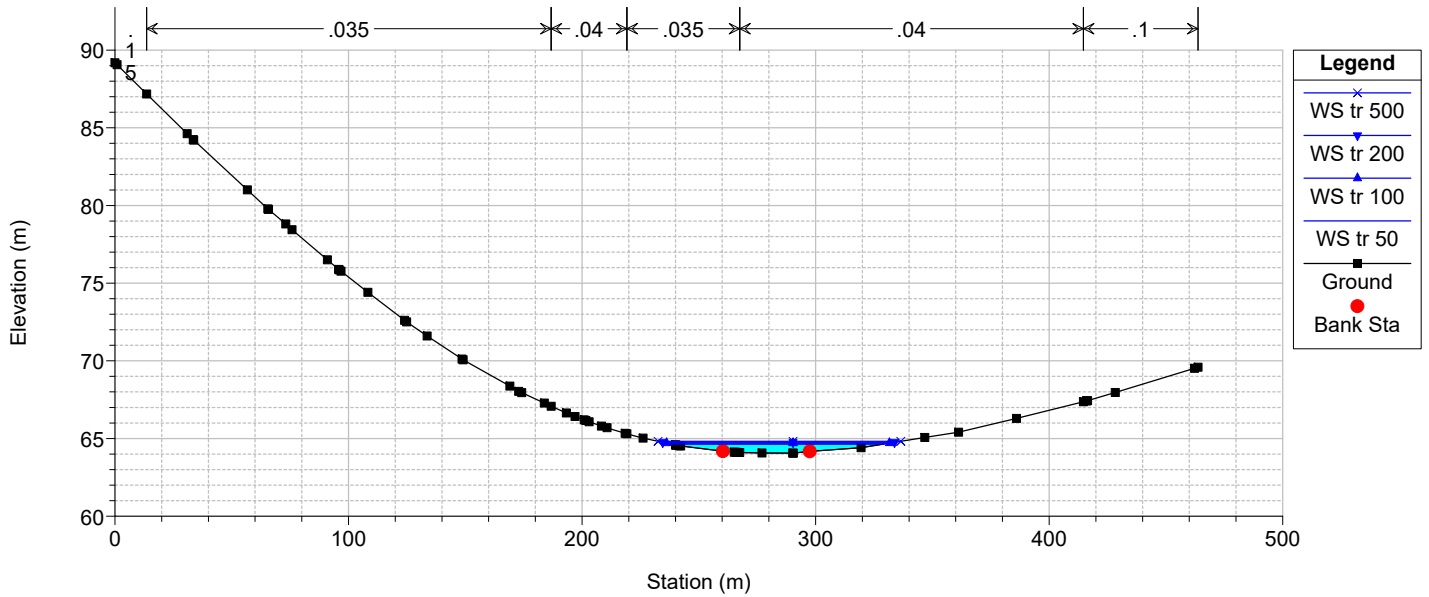
River = 92940 Reach = Asta 1 RS = 4100.533 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

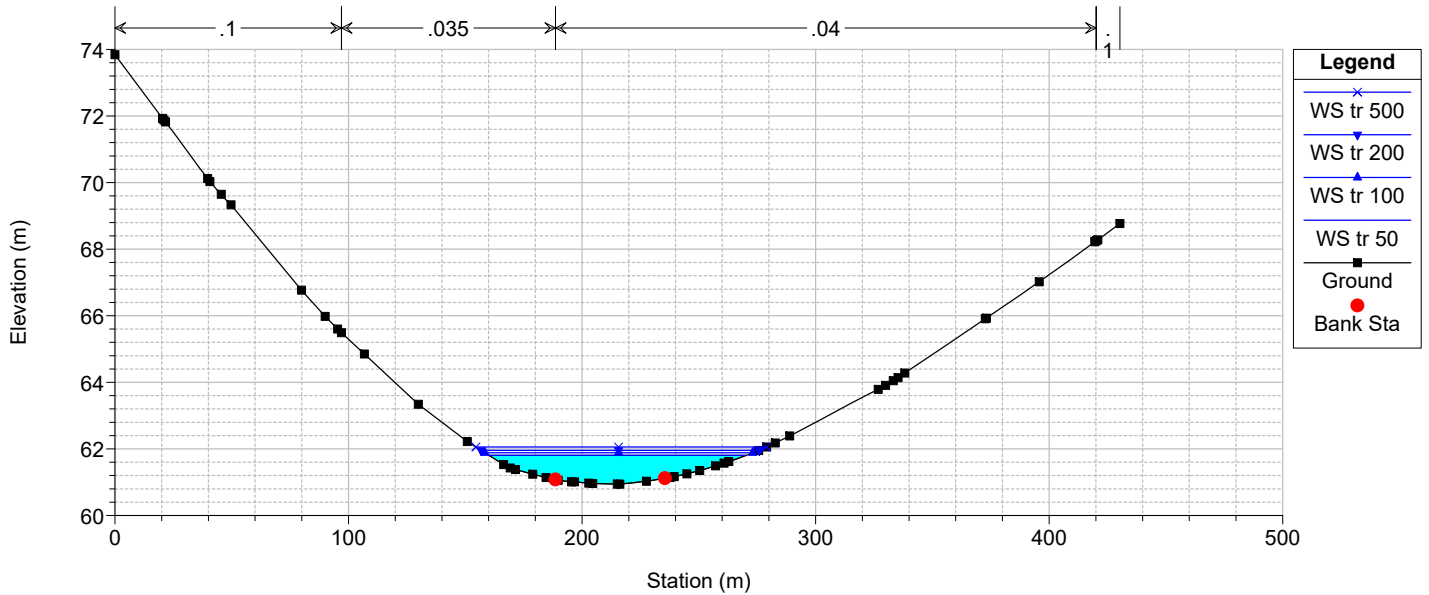
River = 92940 Reach = Asta 1 RS = 3999.456 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

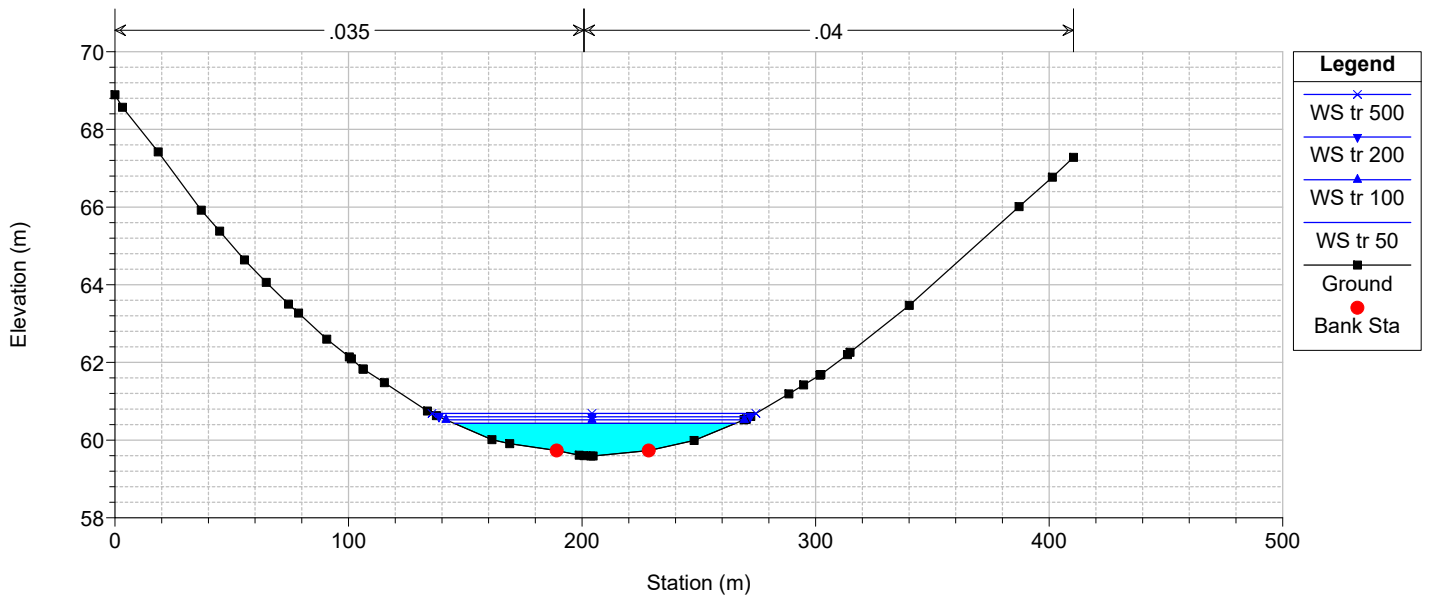
River = 92940 Reach = Asta 1 RS = 3890.631 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

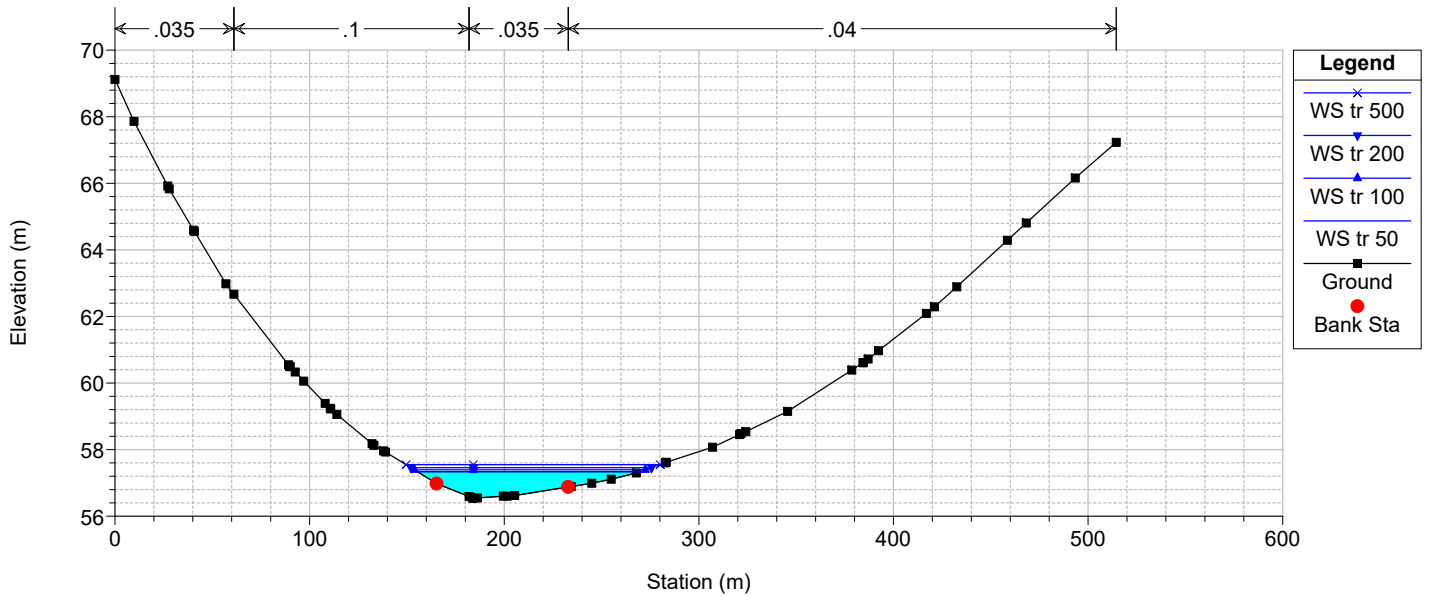
River = 92940 Reach = Asta 1 RS = 3707.248 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

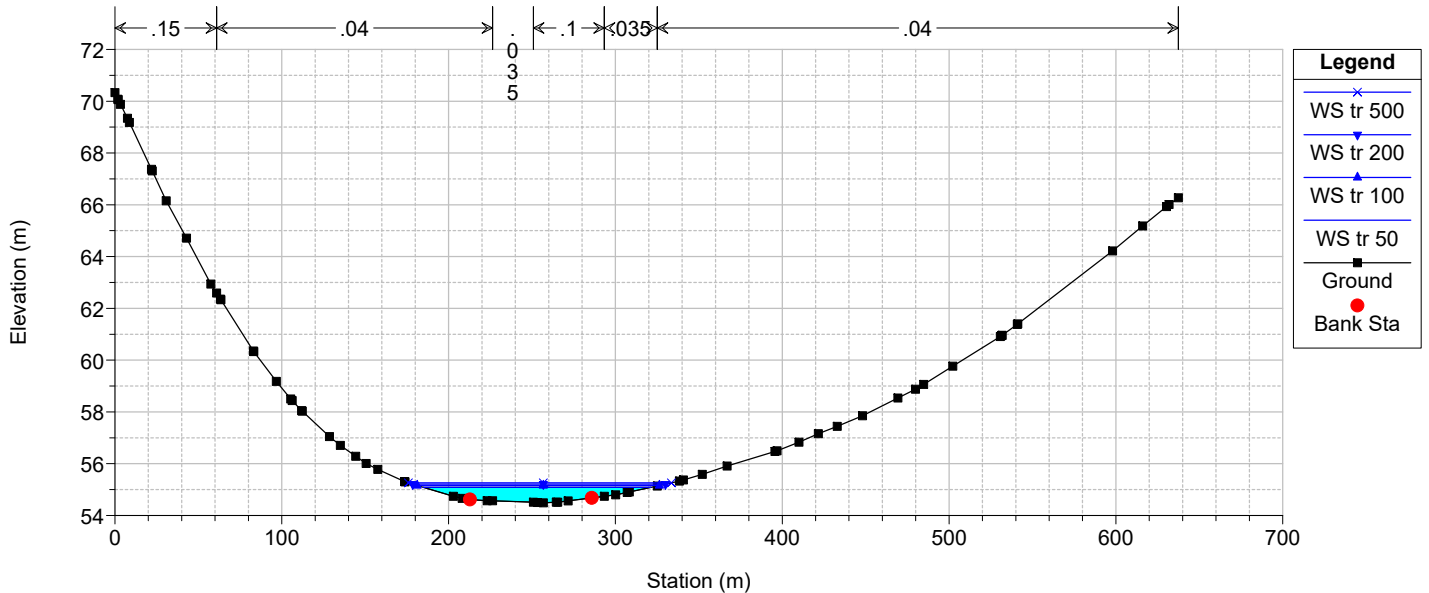
River = 92940 Reach = Asta 1 RS = 3404.86 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

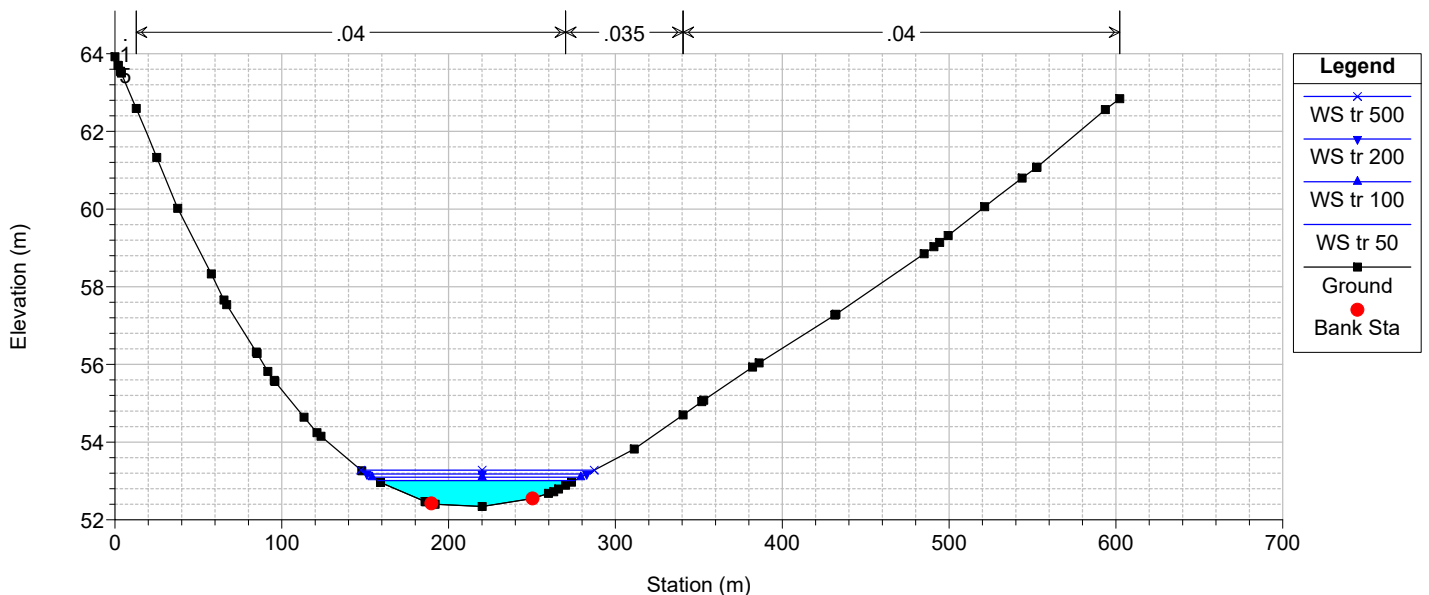
River = 92940 Reach = Asta 1 RS = 3285.588 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

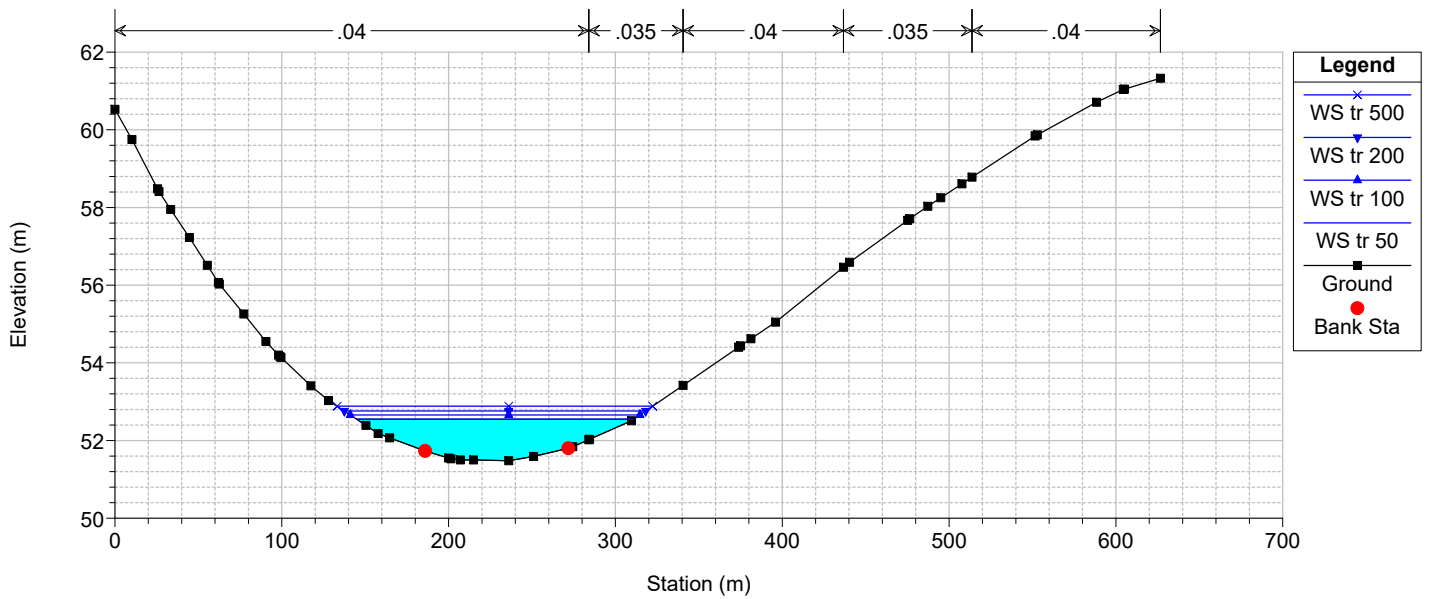
River = 92940 Reach = Asta 1 RS = 3186.233 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

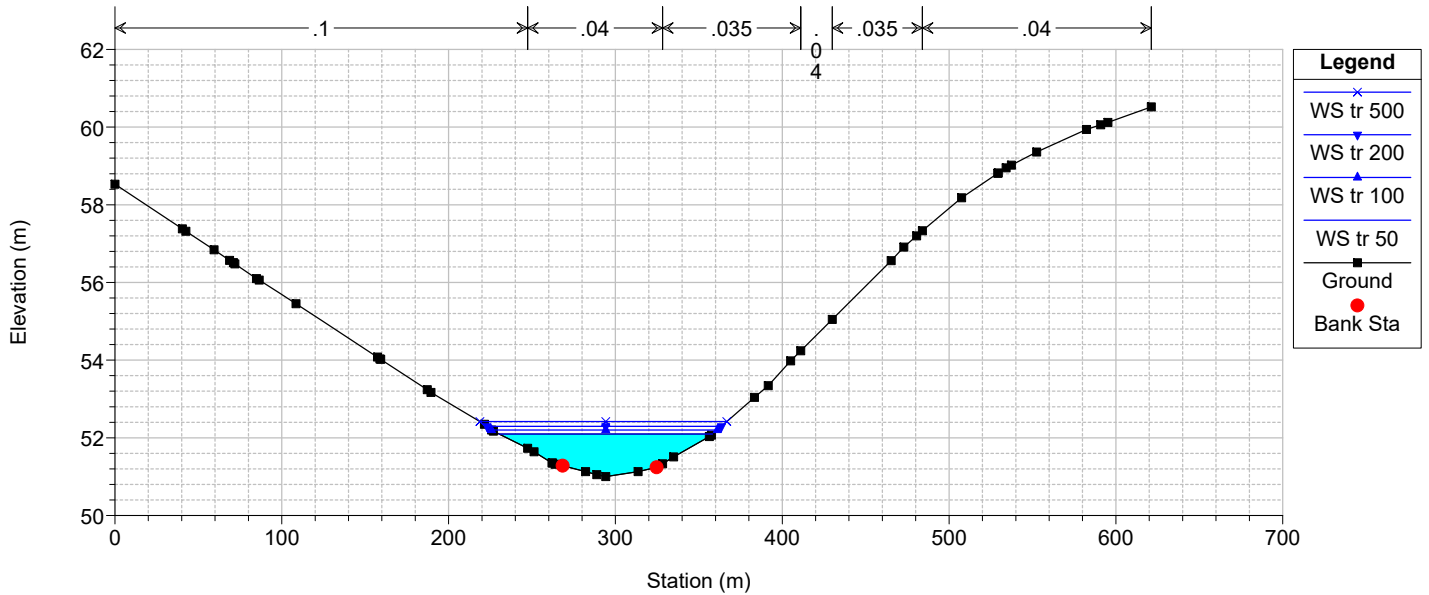
River = 92940 Reach = Asta 1 RS = 3029.871 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

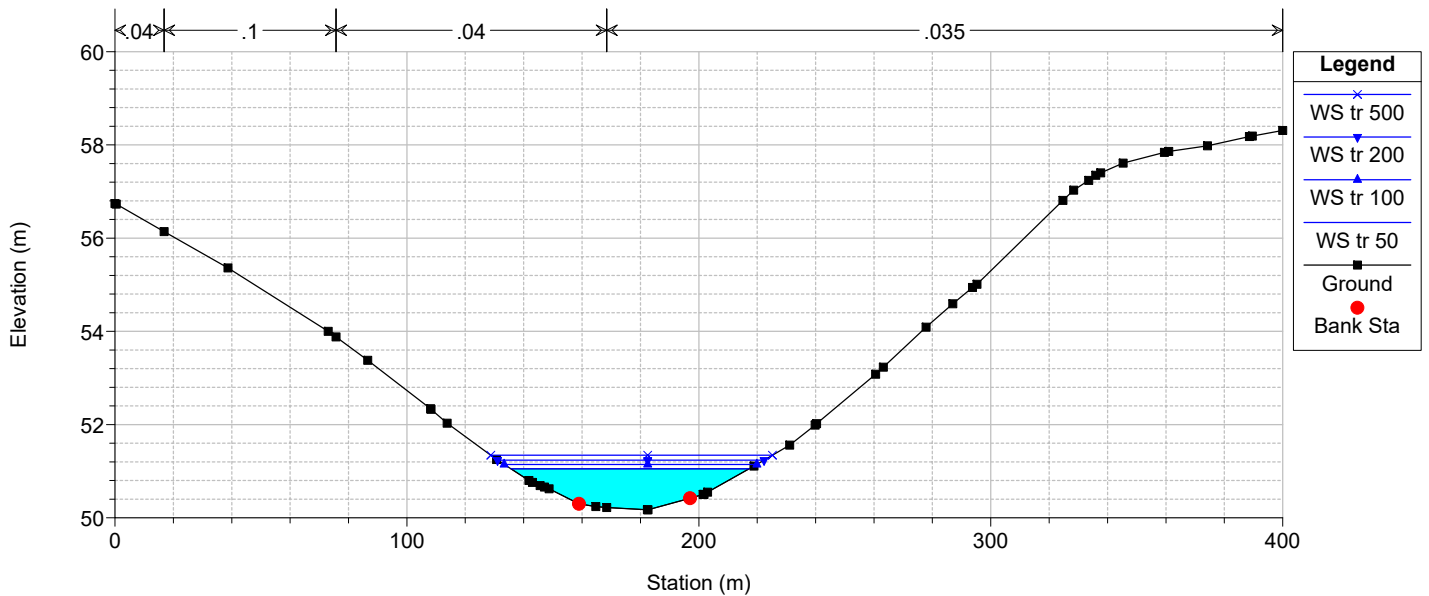
River = 92940 Reach = Asta 1 RS = 2845.205 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

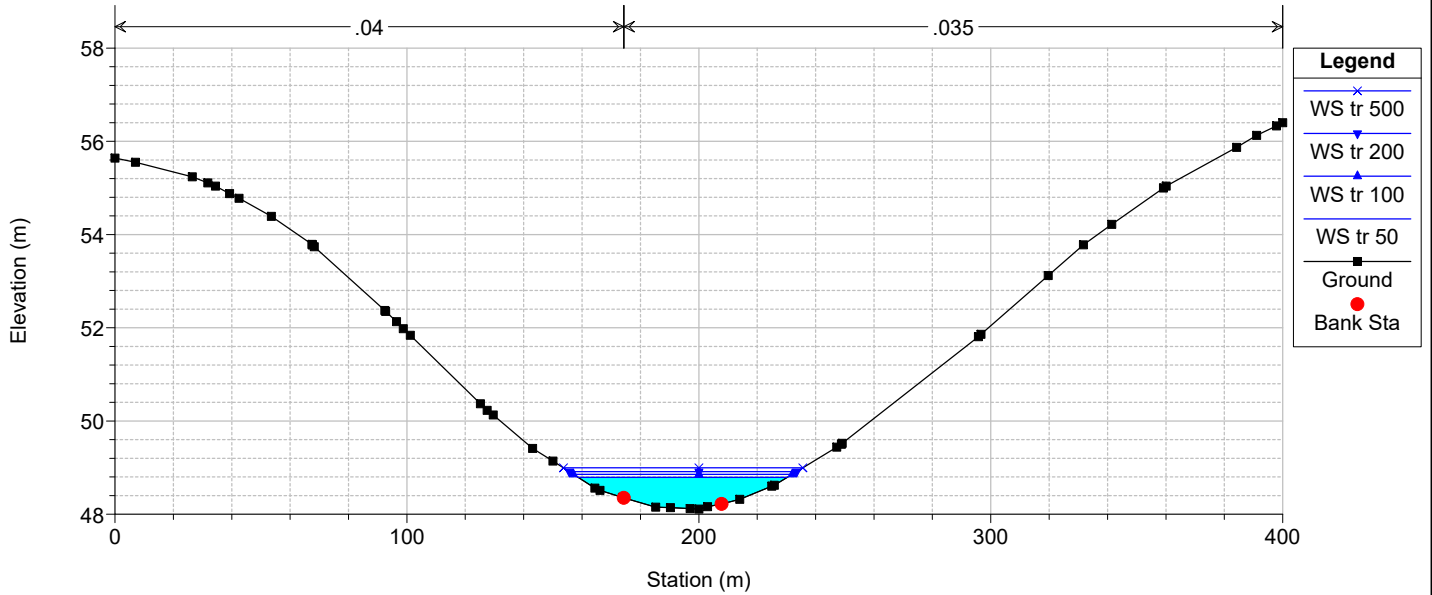
River = 92940 Reach = Asta 1 RS = 2700 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

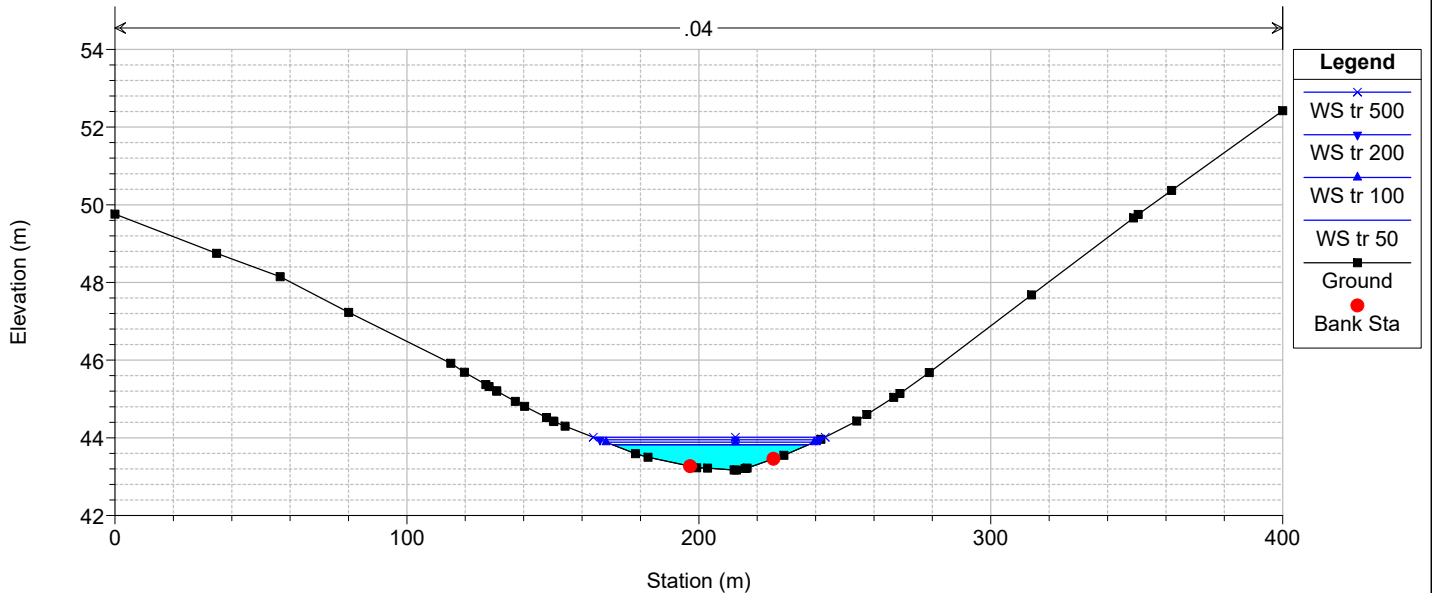
River = 92940 Reach = Asta 1 RS = 2600 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

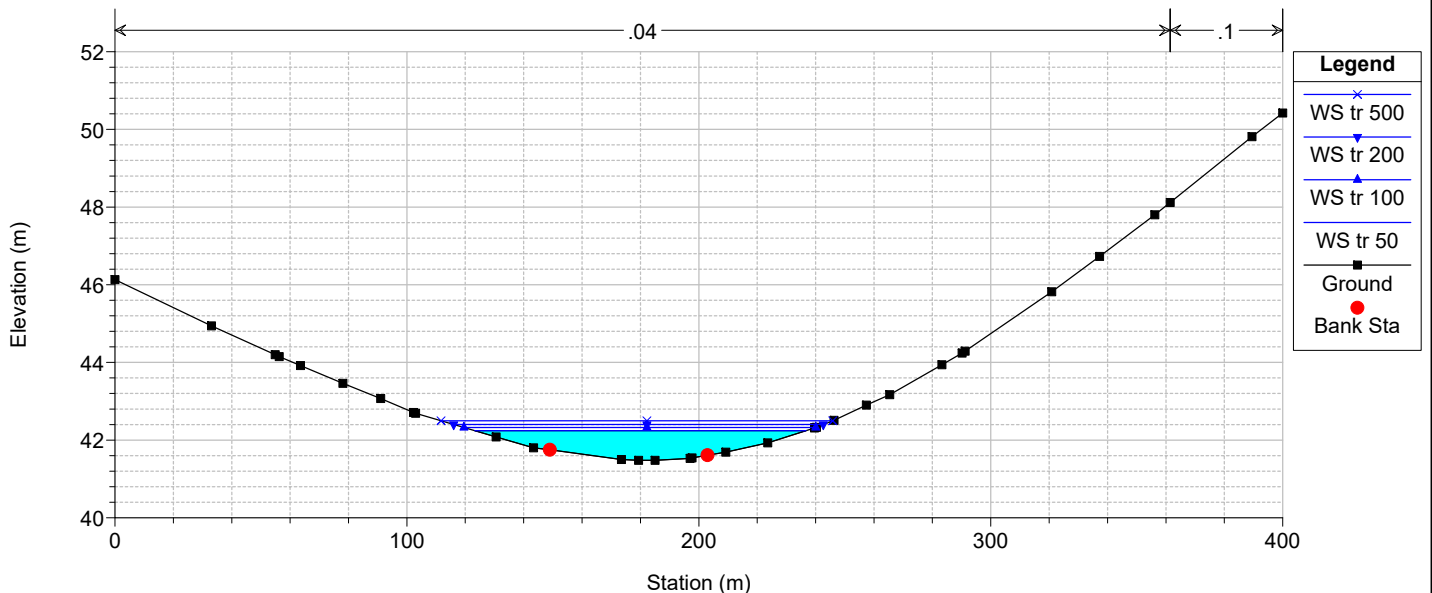
River = 92940 Reach = Asta 1 RS = 2500 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

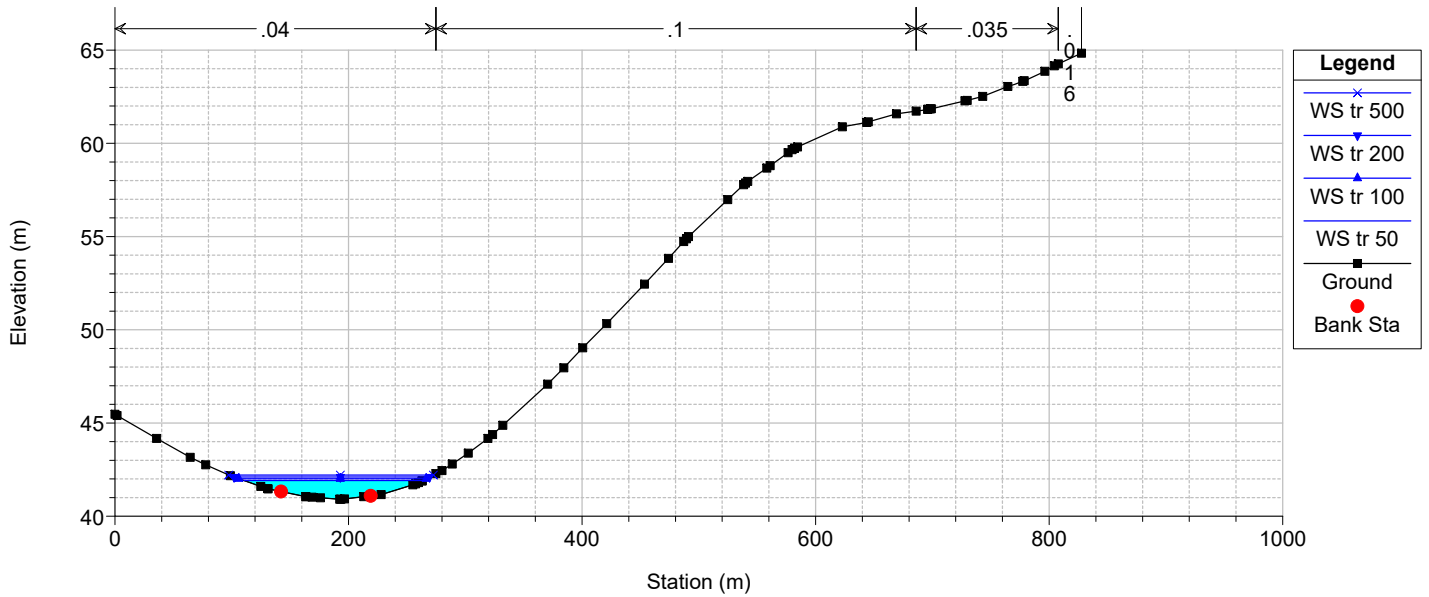
River = 92940 Reach = Asta 1 RS = 2400 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

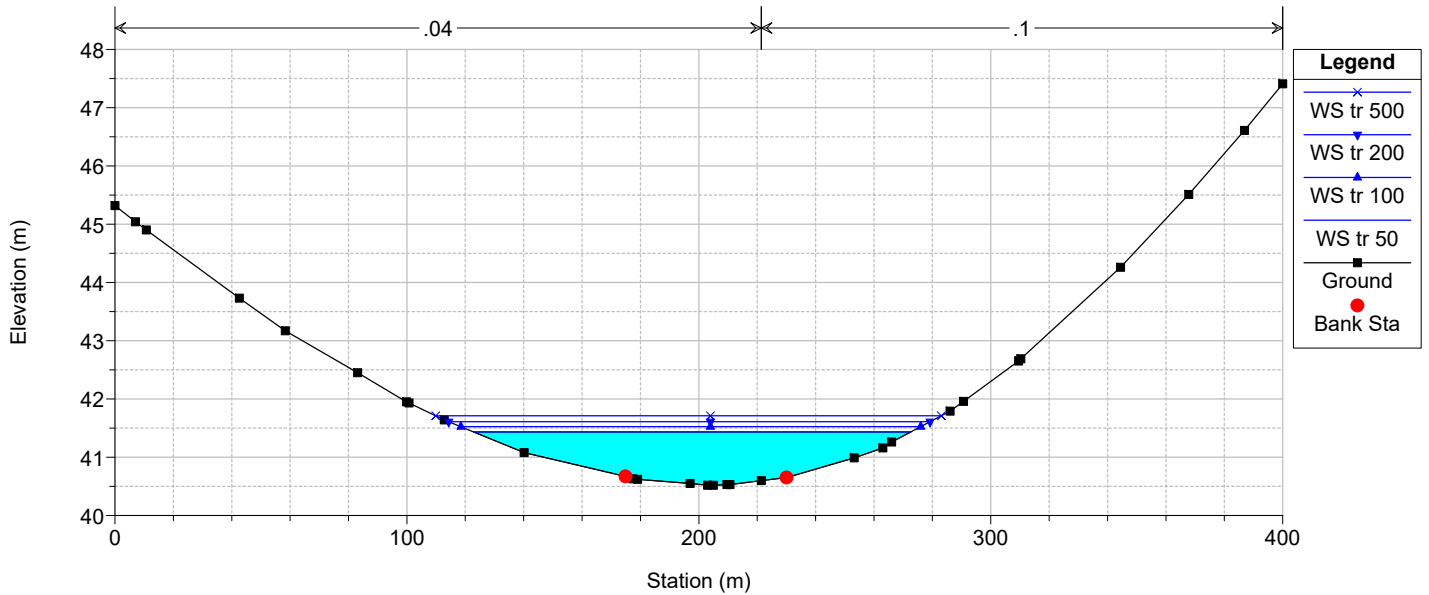
River = 92940 Reach = Asta 1 RS = 2317.374 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

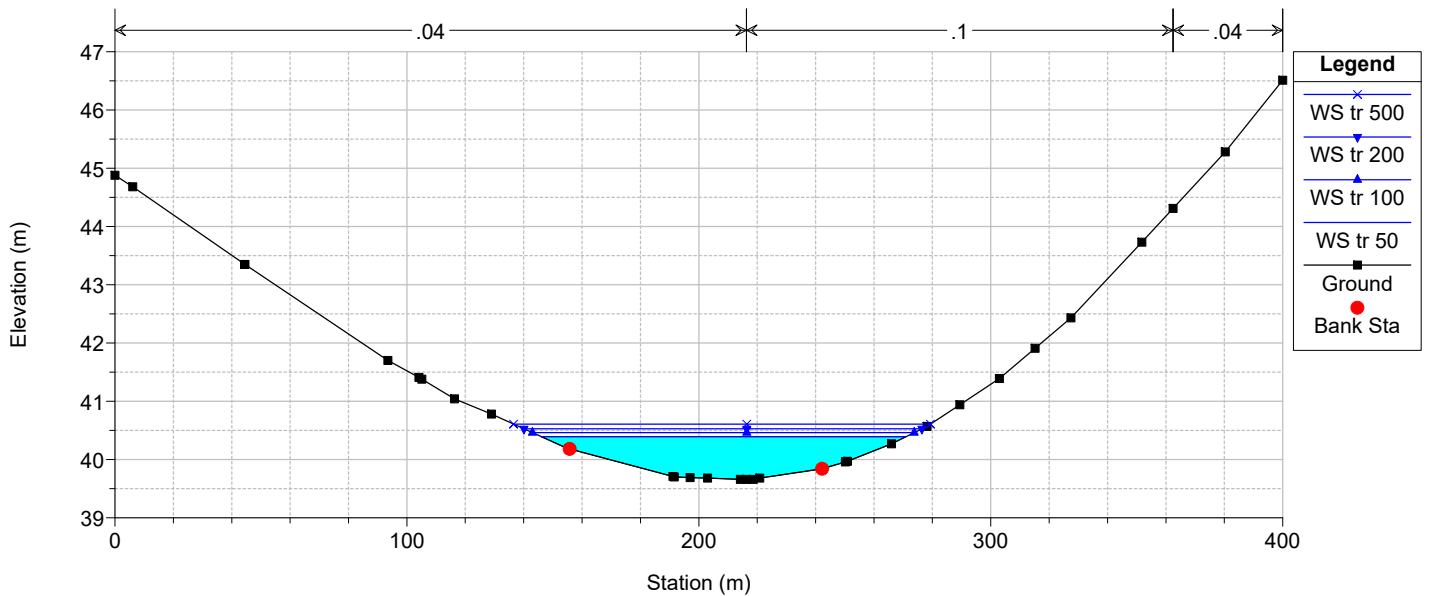
River = 92940 Reach = Asta 1 RS = 2200 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

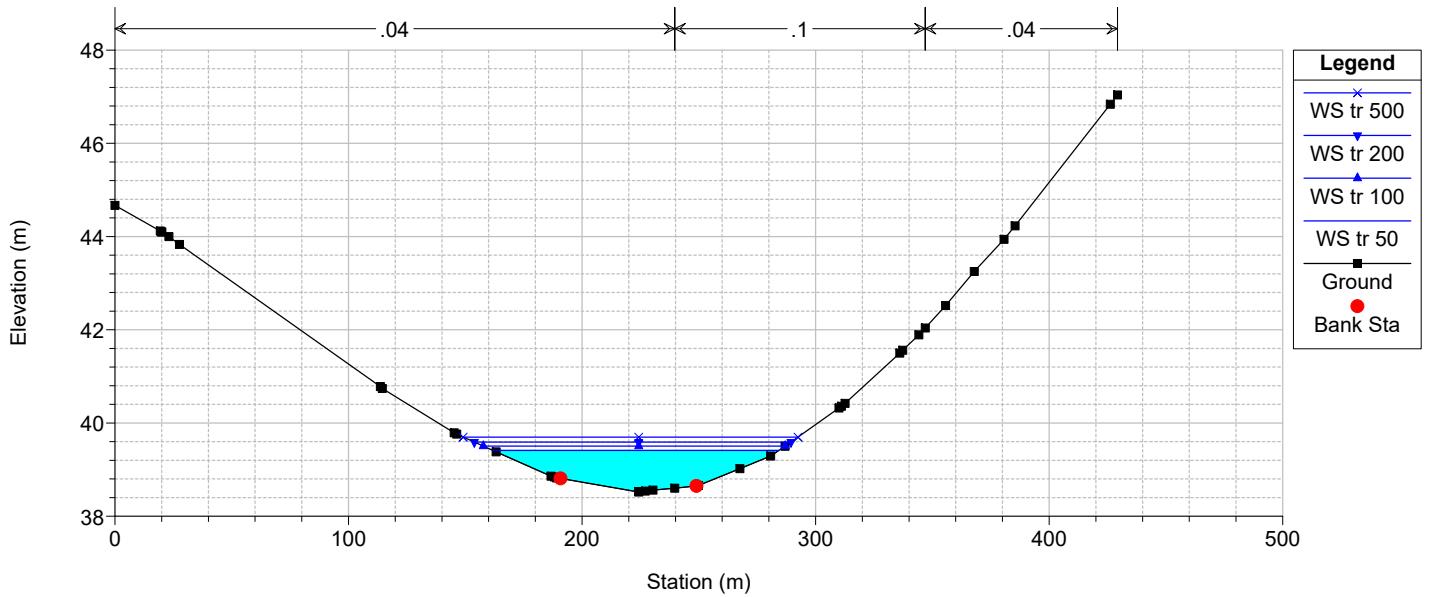
River = 92940 Reach = Asta 1 RS = 2100 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

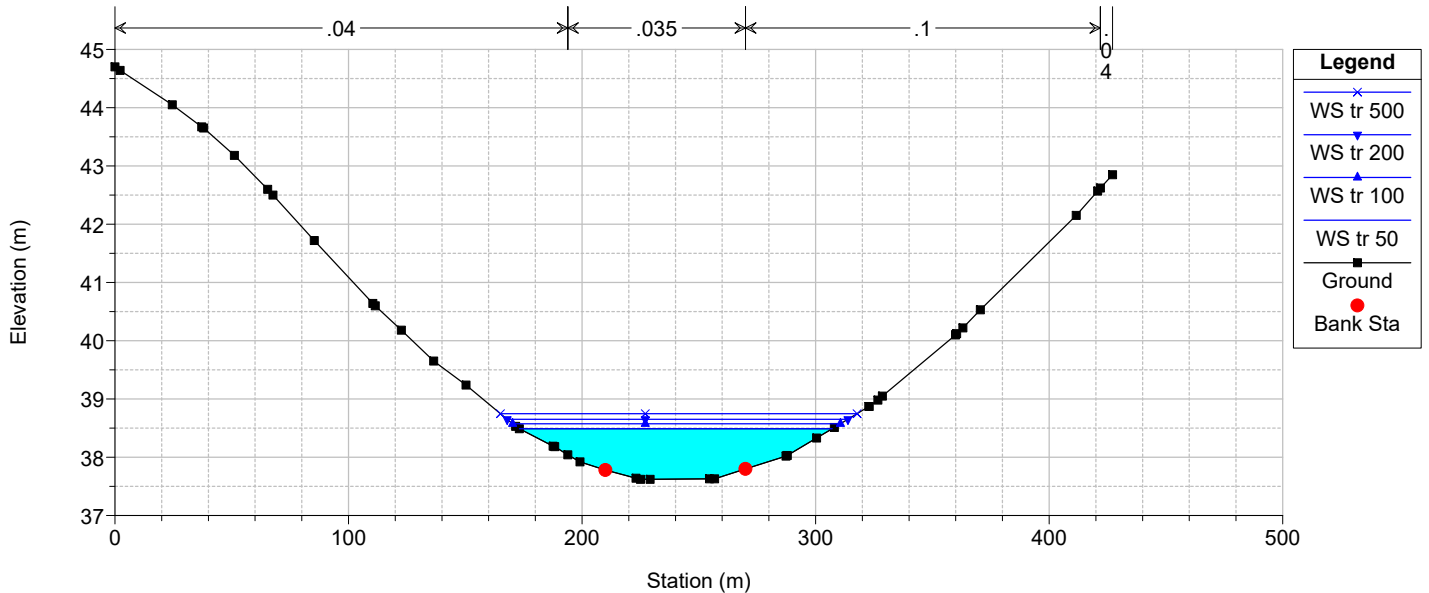
River = 92940 Reach = Asta 1 RS = 2026.531 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

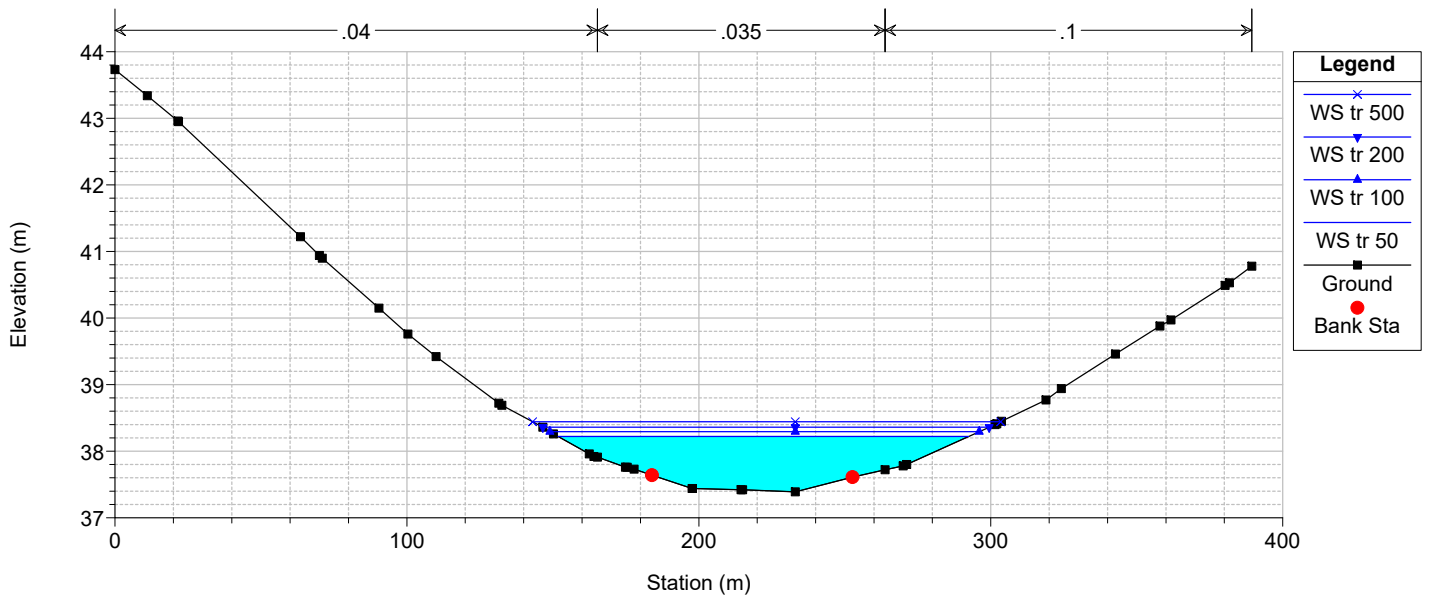
River = 92940 Reach = Asta 1 RS = 1879.237 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

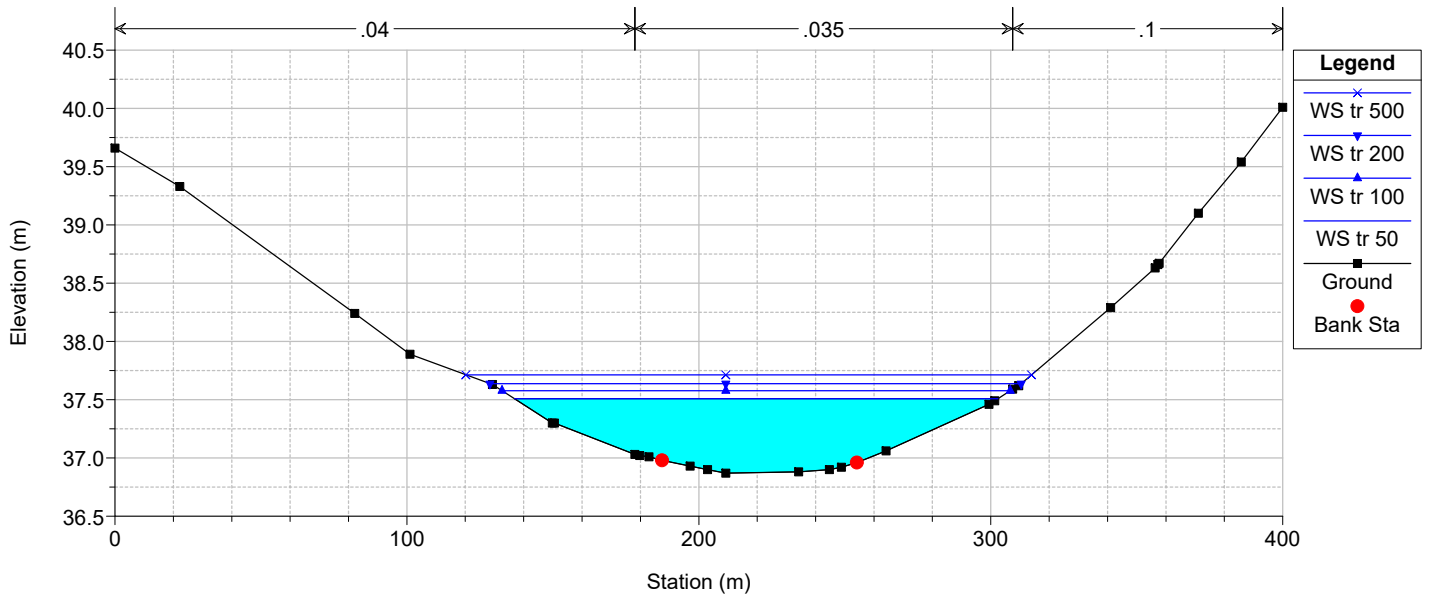
River = 92940 Reach = Asta 1 RS = 1818.7 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

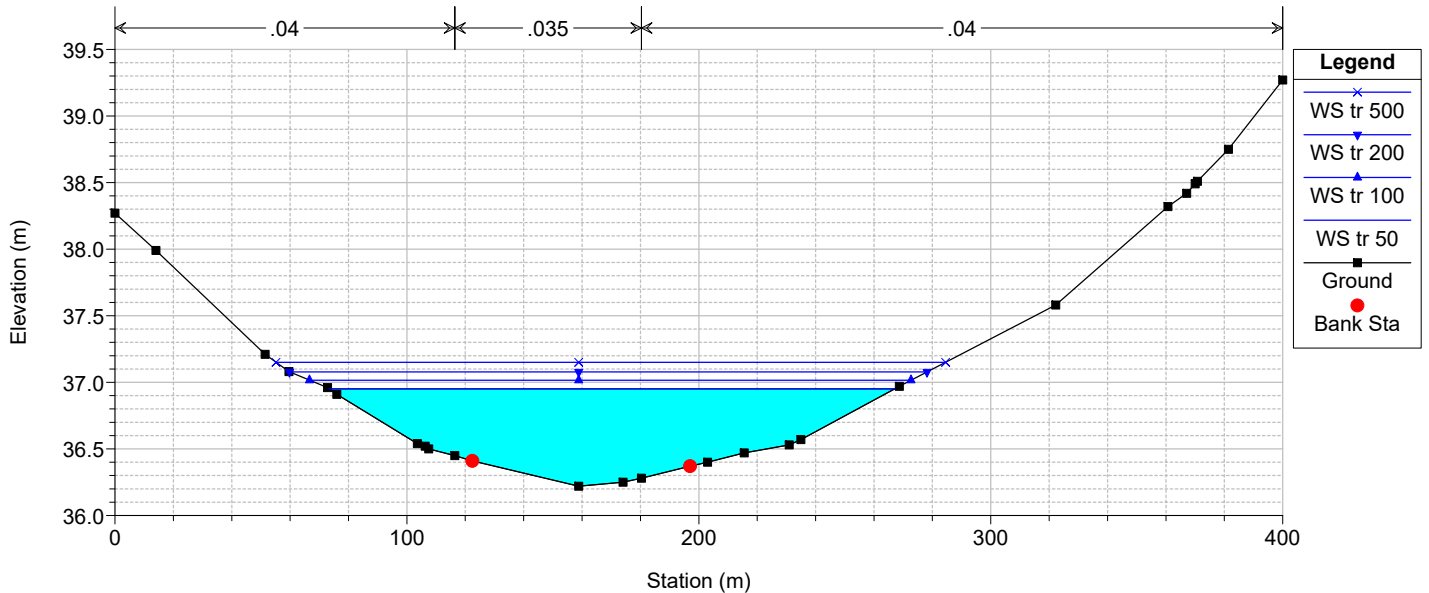
River = 92940 Reach = Asta 1 RS = 1700 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

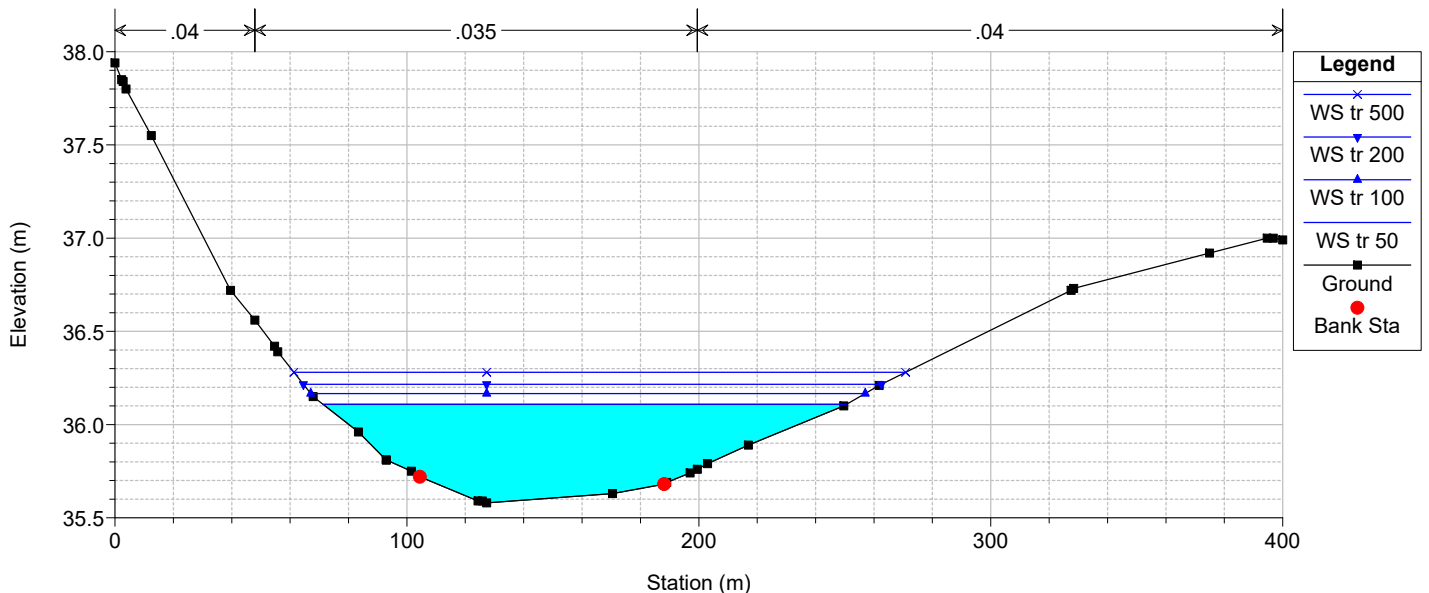
River = 92940 Reach = Asta 1 RS = 1600 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

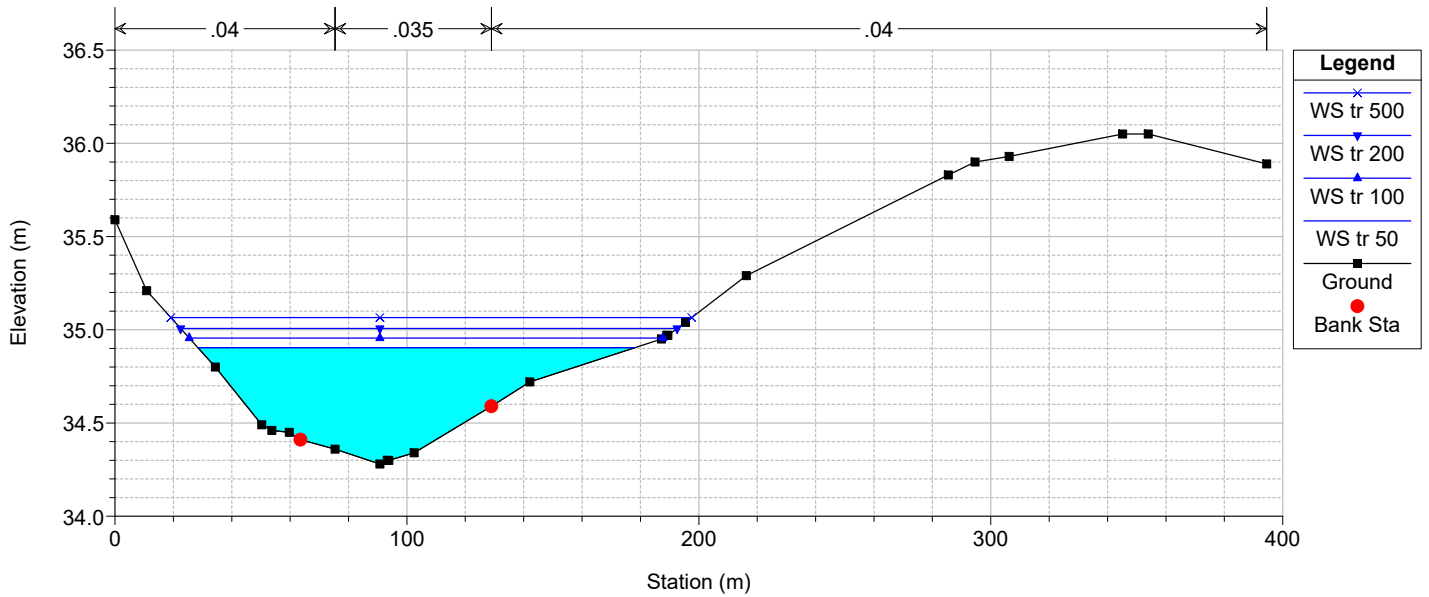
River = 92940 Reach = Asta 1 RS = 1500 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

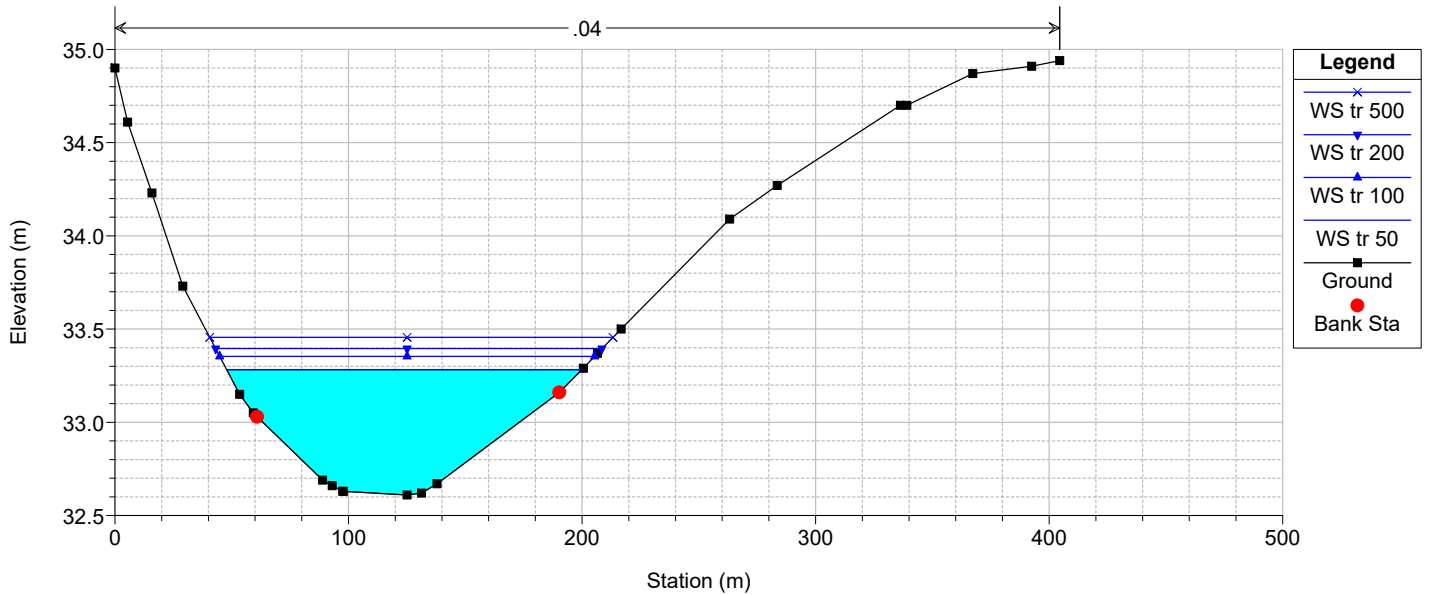
River = 92940 Reach = Asta 1 RS = 1429.037 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

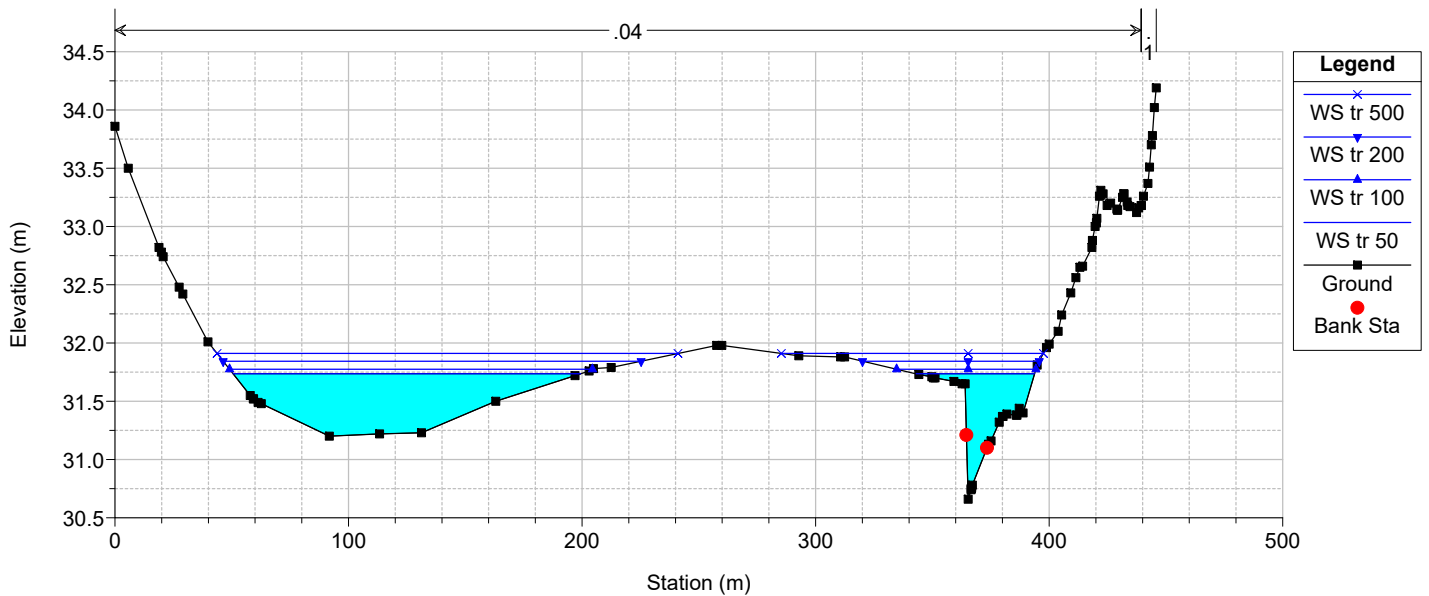
River = 92940 Reach = Asta 1 RS = 1319.883 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

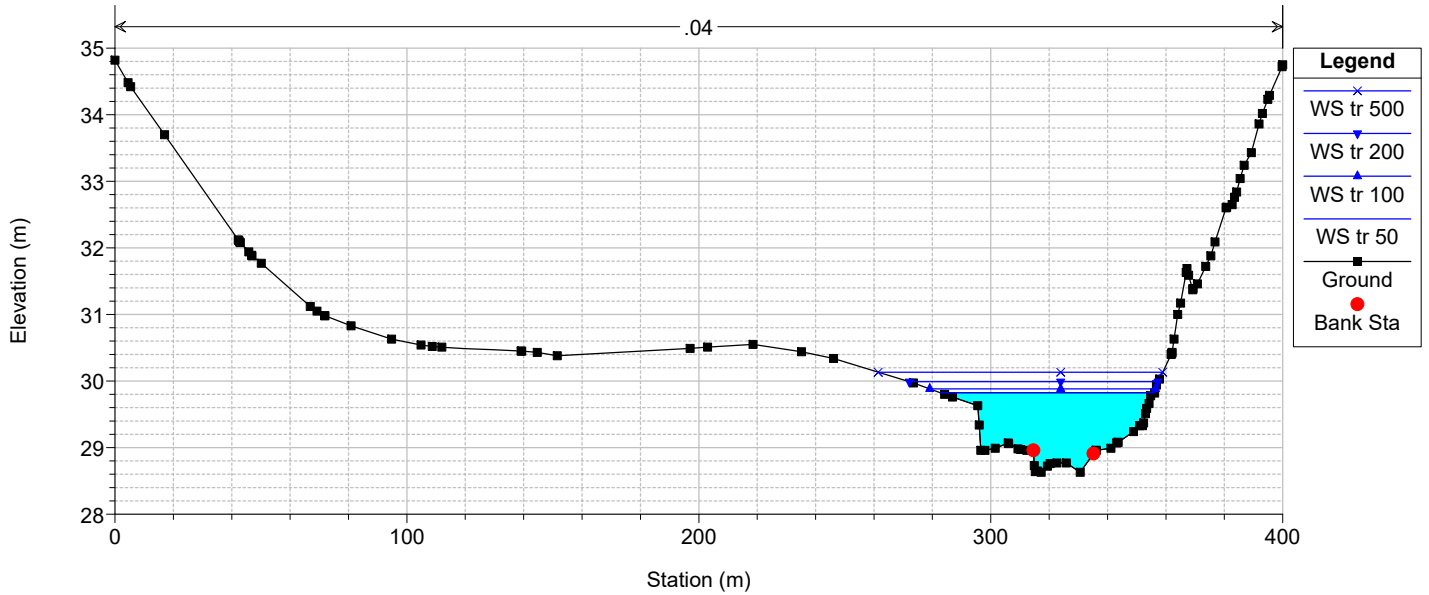
River = 92940 Reach = Asta 1 RS = 1200 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

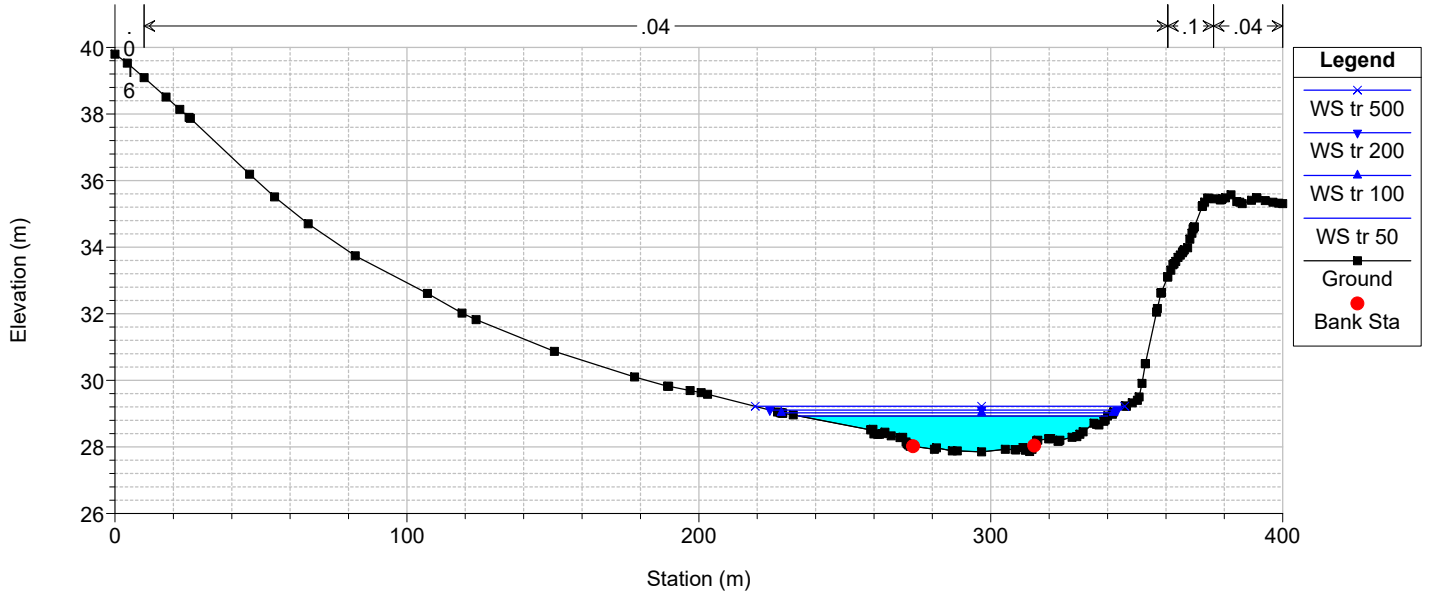
River = 92940 Reach = Asta 1 RS = 1100 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

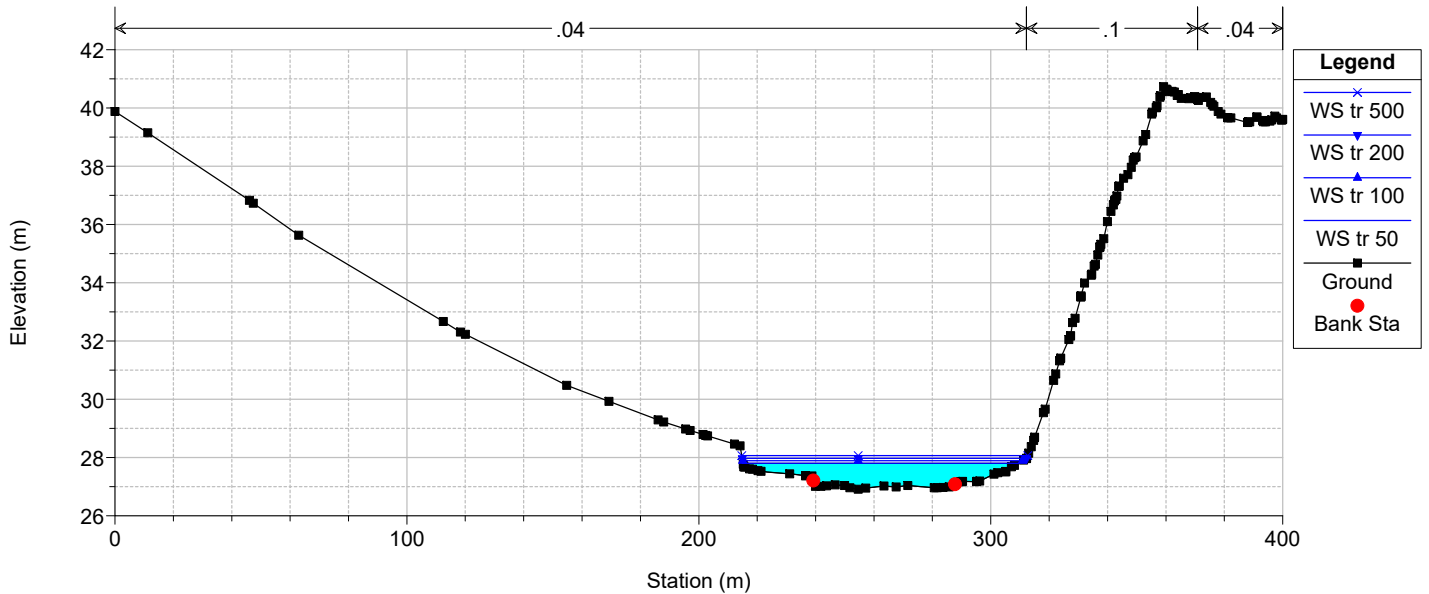
River = 92940 Reach = Asta 1 RS = 1000 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

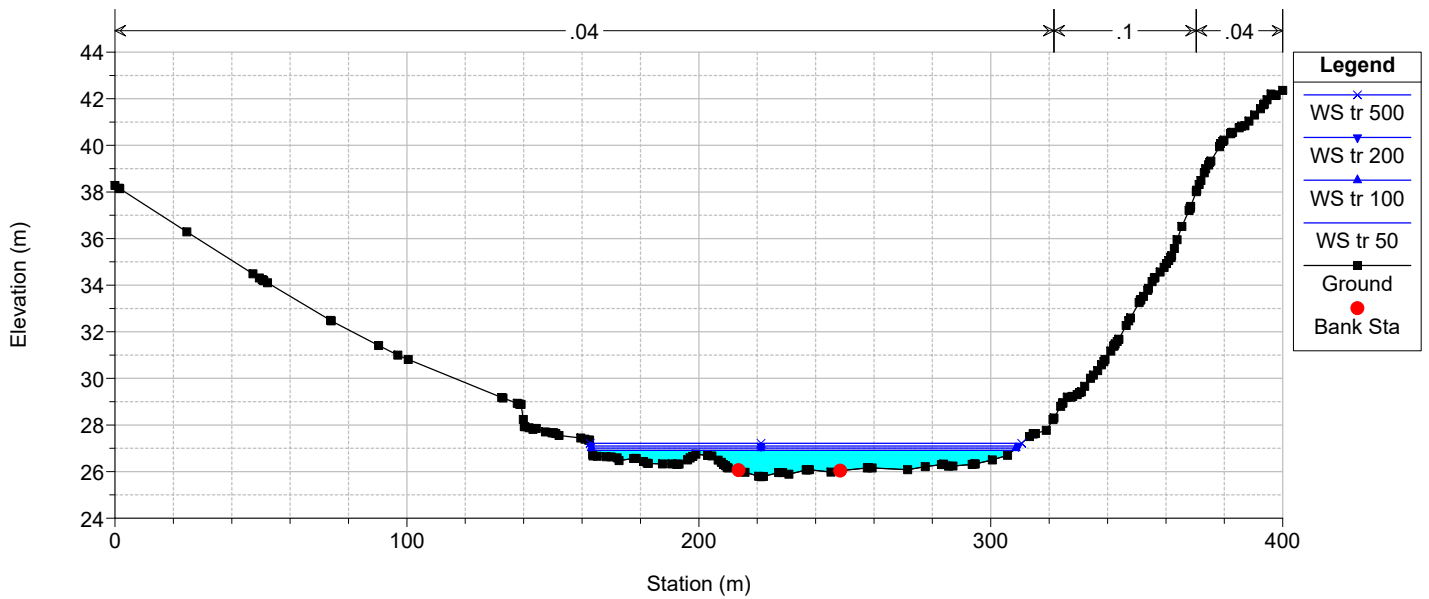
River = 92940 Reach = Asta 1 RS = 899.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

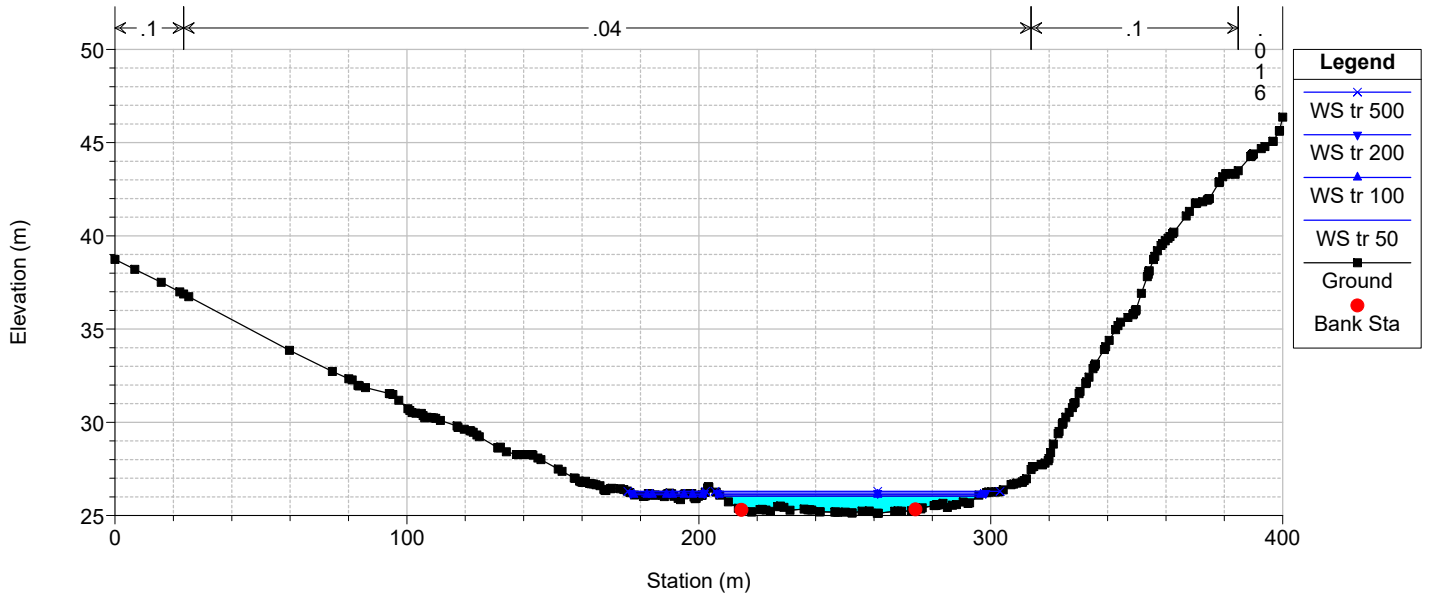
River = 92940 Reach = Asta 1 RS = 799.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

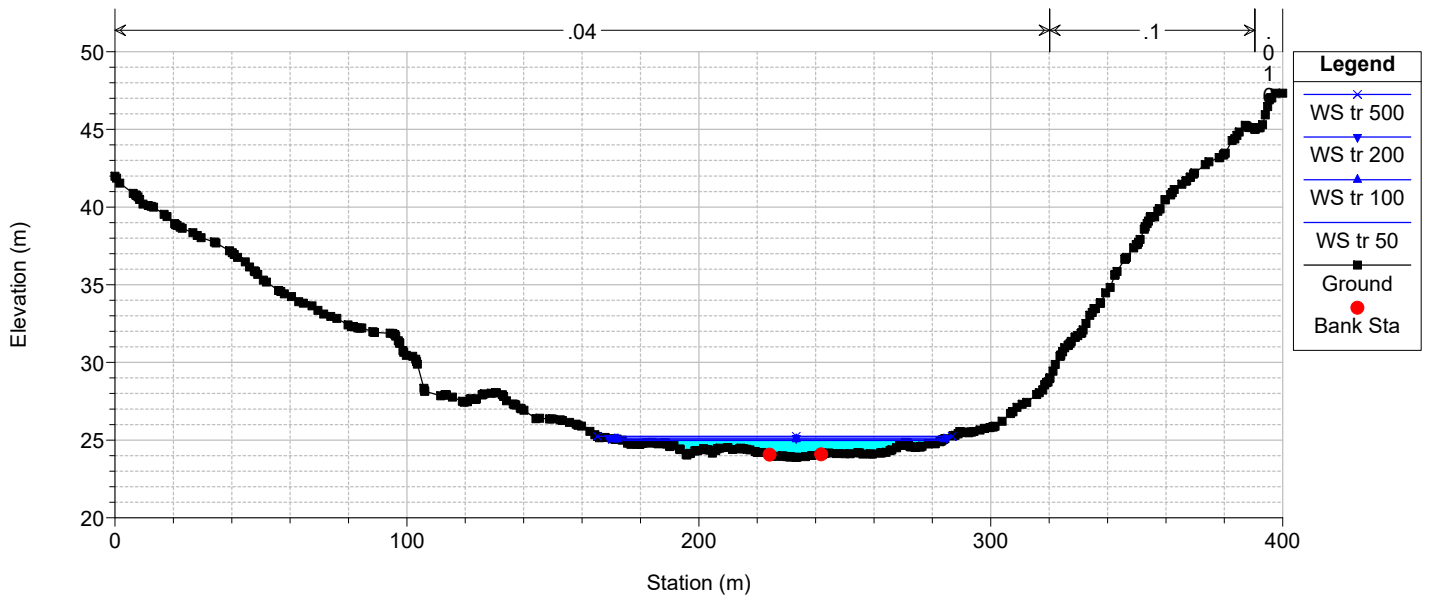
River = 92940 Reach = Asta 1 RS = 700 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

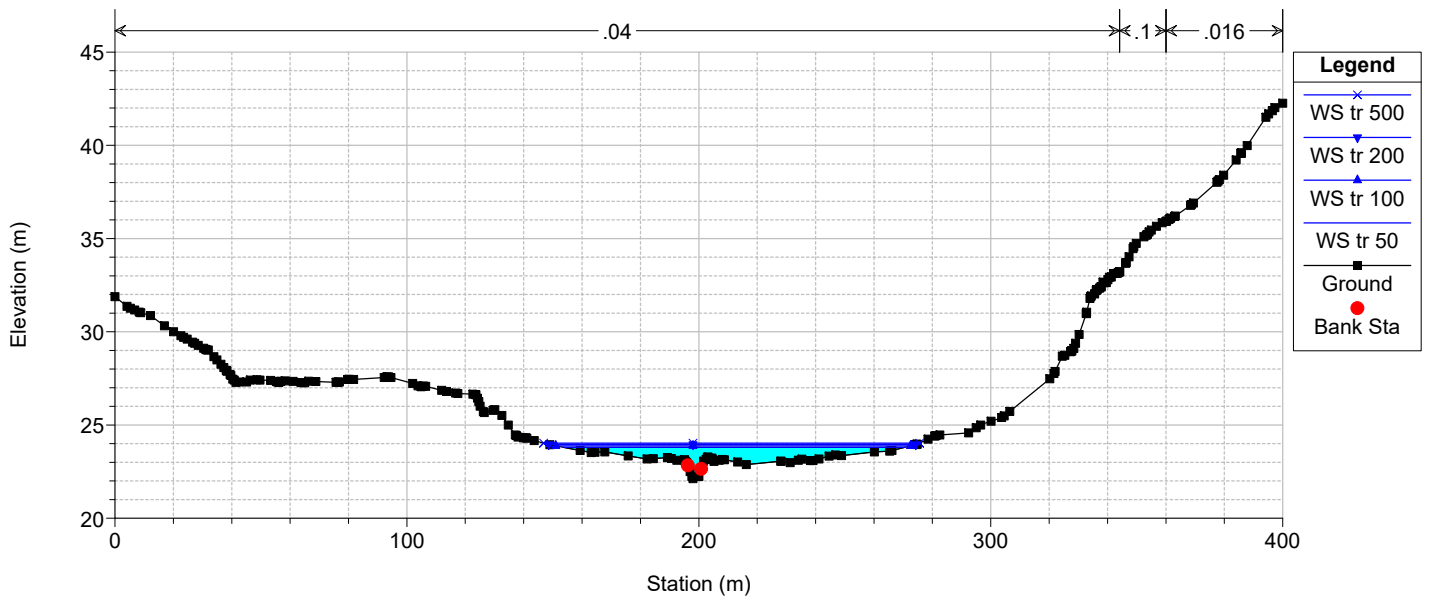
River = 92940 Reach = Asta 1 RS = 599.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

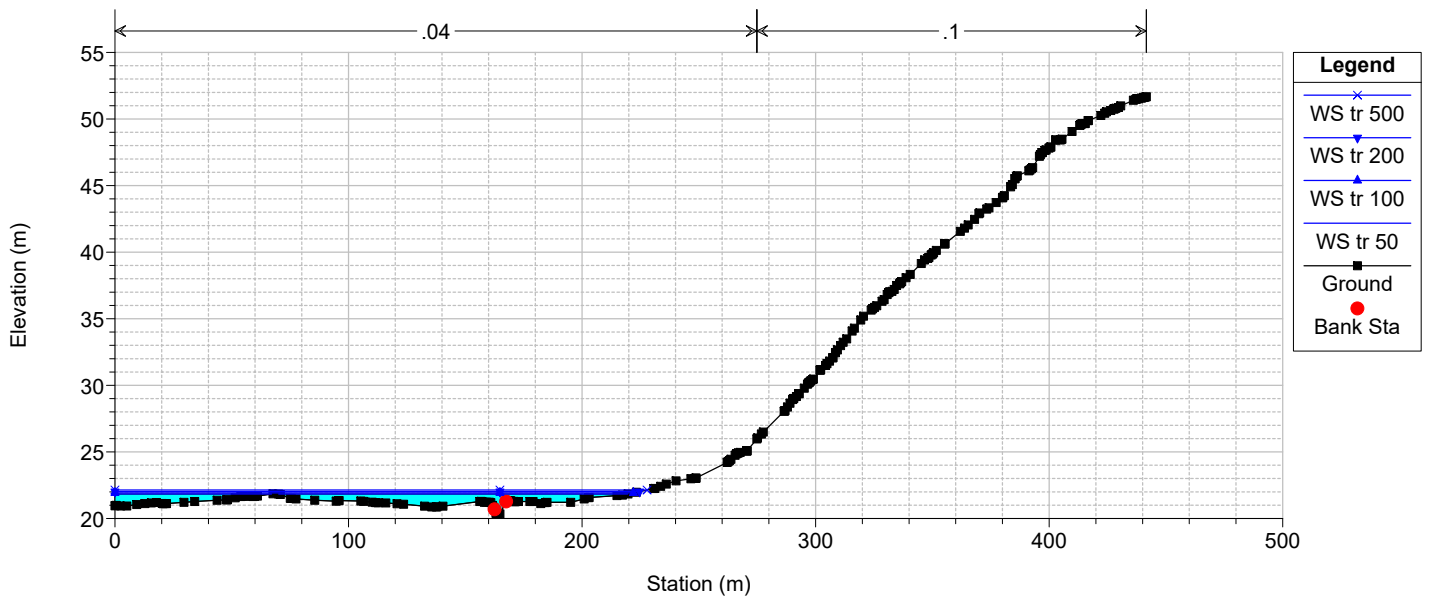
River = 92940 Reach = Asta 1 RS = 499.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

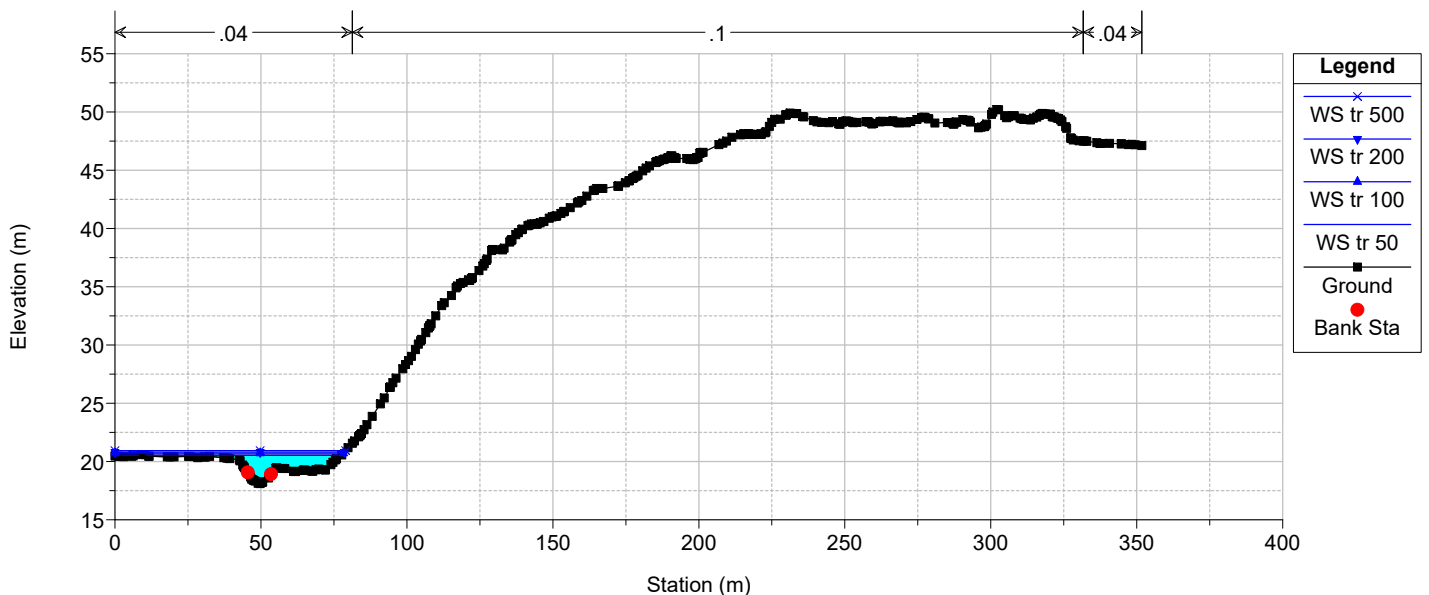
River = 92940 Reach = Asta 1 RS = 346.3488 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

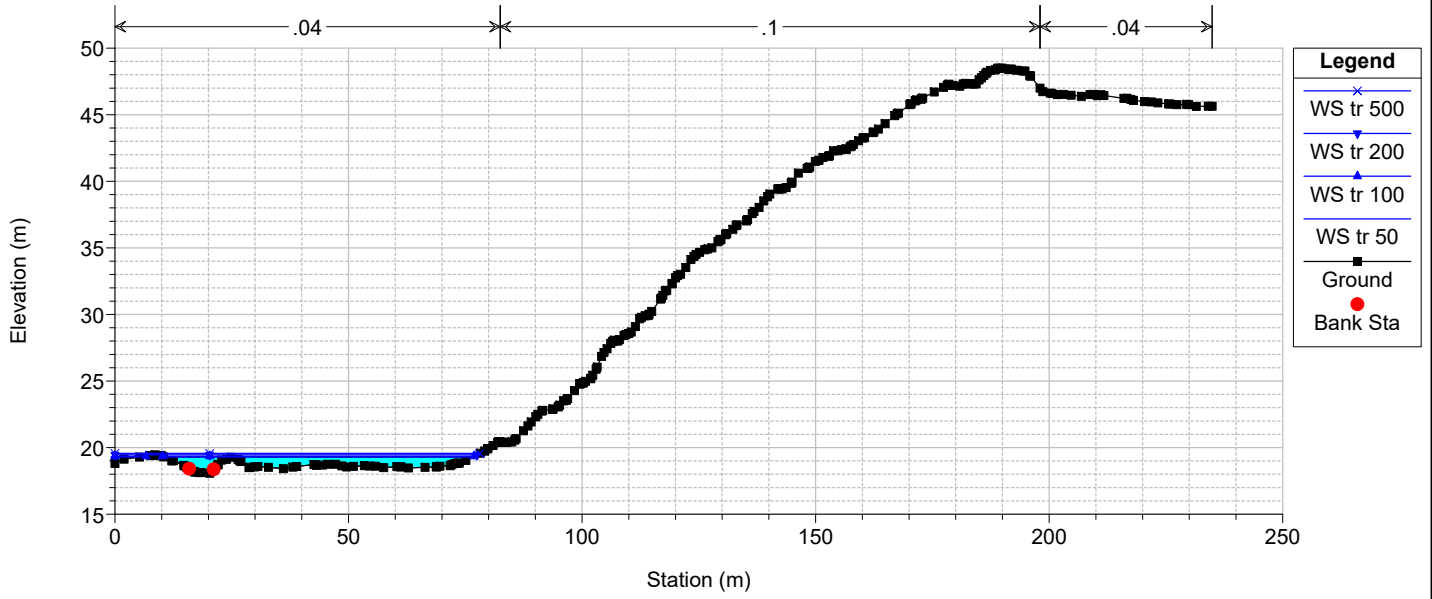
River = 92940 Reach = Asta 1 RS = 168.9657 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

River = 92940 Reach = Asta 1 RS = 70.38914 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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 1	6189.297	tr 50	104.47	88.42	89.24	89.24	89.52	0.015412	2.52	47.81	89.11	0.94
Asta 1	6189.297	tr 100	128.03	88.42	89.33	89.33	89.63	0.014875	2.67	55.76	93.66	0.94
Asta 1	6189.297	tr 200	152.17	88.42	89.41	89.41	89.74	0.014549	2.81	63.39	97.69	0.95
Asta 1	6189.297	tr 500	184.76	88.42	89.51	89.51	89.87	0.013893	2.95	73.77	102.78	0.94
Asta 1	6116.259	tr 50	104.47	87.28	88.48	88.16	88.59	0.003645	1.58	77.10	102.69	0.49
Asta 1	6116.259	tr 100	128.03	87.28	88.59	88.25	88.71	0.003700	1.70	88.73	108.38	0.50
Asta 1	6116.259	tr 200	152.17	87.28	88.69	88.34	88.83	0.003734	1.81	100.12	113.46	0.51
Asta 1	6116.259	tr 500	184.76	87.28	88.82	88.44	88.97	0.003797	1.94	114.46	119.67	0.52
Asta 1	6012.423	tr 50	104.47	86.89	87.97		88.12	0.005719	1.86	67.21	101.30	0.60
Asta 1	6012.423	tr 100	128.03	86.89	88.07		88.23	0.005837	2.00	77.26	106.95	0.62
Asta 1	6012.423	tr 200	152.17	86.89	88.16		88.34	0.005973	2.13	86.82	112.14	0.63
Asta 1	6012.423	tr 500	184.76	86.89	88.26		88.47	0.006192	2.30	98.67	118.24	0.65
Asta 1	5922.329	tr 50	104.47	86.54	87.52		87.63	0.004809	1.65	77.66	129.94	0.55
Asta 1	5922.329	tr 100	128.03	86.54	87.61		87.74	0.004959	1.78	89.37	139.07	0.56
Asta 1	5922.329	tr 200	152.17	86.54	87.69		87.83	0.005078	1.89	100.82	147.32	0.58
Asta 1	5922.329	tr 500	184.76	86.54	87.79		87.94	0.005205	2.02	115.11	155.00	0.59
Asta 1	5819.523	tr 50	104.47	86.15	87.02		87.11	0.005386	1.60	85.06	172.95	0.57
Asta 1	5819.523	tr 100	128.03	86.15	87.08		87.19	0.005640	1.72	96.97	181.65	0.59
Asta 1	5819.523	tr 200	152.17	86.15	87.14		87.26	0.005940	1.85	107.90	189.28	0.61
Asta 1	5819.523	tr 500	184.76	86.15	87.21		87.35	0.006232	1.99	122.05	198.41	0.63
Asta 1	5701.227	tr 50	104.47	85.48	86.15		86.27	0.009615	1.74	73.51	184.42	0.72
Asta 1	5701.227	tr 100	128.03	85.48	86.22		86.35	0.009071	1.82	86.67	194.85	0.71
Asta 1	5701.227	tr 200	152.17	85.48	86.29		86.42	0.008573	1.89	99.99	204.85	0.70
Asta 1	5701.227	tr 500	184.76	85.48	86.37		86.51	0.008083	1.97	117.27	217.14	0.69
Asta 1	5624.982	tr 50	104.47	84.72	85.46	85.35	85.59	0.008308	1.78	69.95	145.35	0.68
Asta 1	5624.982	tr 100	128.03	84.72	85.53		85.68	0.008484	1.92	80.25	152.94	0.70
Asta 1	5624.982	tr 200	152.17	84.72	85.59		85.76	0.008763	2.05	89.75	159.62	0.72
Asta 1	5624.982	tr 500	184.76	84.72	85.67	85.56	85.86	0.009048	2.21	102.00	167.95	0.75
Asta 1	5490.343	tr 50	104.47	83.20	83.84	83.84	84.05	0.016452	2.19	54.49	132.57	0.93
Asta 1	5490.343	tr 100	128.03	83.20	83.91	83.91	84.14	0.015898	2.32	63.73	140.84	0.93
Asta 1	5490.343	tr 200	152.17	83.20	83.97	83.97	84.23	0.015211	2.43	73.25	148.88	0.93
Asta 1	5490.343	tr 500	184.76	83.20	84.06	84.06	84.33	0.014460	2.55	85.76	158.71	0.92
Asta 1	5418.703	tr 50	104.47	82.14	82.81	82.77	82.99	0.013271	2.06	59.53	136.82	0.85
Asta 1	5418.703	tr 100	128.03	82.14	82.91	82.84	83.08	0.011116	2.08	73.17	147.66	0.79
Asta 1	5418.703	tr 200	152.17	82.14	83.00	82.90	83.17	0.009649	2.10	86.80	156.48	0.75
Asta 1	5418.703	tr 500	184.76	82.14	83.11	82.99	83.29	0.008350	2.13	104.45	165.72	0.72
Asta 1	5285.677	tr 50	104.47	81.39	82.46		82.52	0.001450	1.08	110.24	151.48	0.35
Asta 1	5285.677	tr 100	128.03	81.39	82.57		82.63	0.001478	1.17	126.30	158.70	0.36
Asta 1	5285.677	tr 200	152.17	81.39	82.66		82.73	0.001503	1.25	141.81	165.38	0.36
Asta 1	5285.677	tr 500	184.76	81.39	82.78		82.85	0.001536	1.34	161.35	172.95	0.37
Asta 1	5179.22	tr 50	104.47	81.15	82.14		82.25	0.004823	1.57	75.59	120.27	0.54
Asta 1	5179.22	tr 100	128.03	81.15	82.23		82.36	0.004985	1.71	86.23	125.98	0.56
Asta 1	5179.22	tr 200	152.17	81.15	82.31		82.45	0.005085	1.82	96.68	130.89	0.57
Asta 1	5179.22	tr 500	184.76	81.15	82.41		82.57	0.005208	1.96	109.77	135.88	0.59
Asta 1	5100	tr 50	104.47	80.65	81.40	81.39	81.63	0.014298	2.25	52.73	109.57	0.89
Asta 1	5100	tr 100	128.03	80.65	81.49	81.46	81.73	0.013565	2.37	61.91	115.50	0.88
Asta 1	5100	tr 200	152.17	80.65	81.56	81.54	81.83	0.013212	2.49	70.47	120.32	0.89
Asta 1	5100	tr 500	184.76	80.65	81.65	81.62	81.94	0.012660	2.62	81.92	126.47	0.88
Asta 1	5000	tr 50	104.47	79.53	80.30	80.24	80.48	0.009225	2.02	57.97	114.17	0.79
Asta 1	5000	tr 100	128.03	79.53	80.36	80.31	80.58	0.009738	2.21	65.48	118.07	0.82
Asta 1	5000	tr 200	152.17	79.53	80.43	80.38	80.68	0.010031	2.37	73.05	121.87	0.85
Asta 1	5000	tr 500	184.76	79.53	80.50	80.47	80.79	0.010516	2.57	82.22	126.32	0.88
Asta 1	4900	tr 50	104.47	78.46	79.14	79.14	79.38	0.013401	2.30	51.25	115.53	0.96
Asta 1	4900	tr 100	128.03	78.46	79.22	79.22	79.48	0.012587	2.43	60.50	122.96	0.95
Asta 1	4900	tr 200	152.17	78.46	79.29	79.29	79.57	0.012257	2.56	69.12	129.66	0.96
Asta 1	4900	tr 500	184.76	78.46	79.38	79.38	79.68	0.011778	2.70	80.56	137.23	0.96
Asta 1	4800	tr 50	104.47	75.74	76.12	76.29	76.67	0.076964	3.45	32.93	119.38	1.86
Asta 1	4800	tr 100	128.03	75.74	76.15	76.35	76.82	0.082236	3.78	36.92	122.99	1.95
Asta 1	4800	tr 200	152.17	75.74	76.19	76.42	76.94	0.085188	4.07	41.00	126.57	2.01
Asta 1	4800	tr 500	184.76	75.74	76.23	76.49	77.10	0.087533	4.39	46.32	131.10	2.07
Asta 1	4700	tr 50	104.47	71.76	72.86	72.51	72.94	0.002841	1.38	93.18	135.25	0.43
Asta 1	4700	tr 100	128.03	71.76	72.95	72.60	73.04	0.002980	1.49	106.14	142.47	0.45
Asta 1	4700	tr 200	152.17	71.76	73.04	72.67	73.14	0.003076	1.59	118.97	149.28	0.46
Asta 1	4700	tr 500	184.76	71.76	73.15	72.76	73.26	0.003182	1.71	135.37	157.56	0.47
Asta 1	4510.4	tr 50	104.47	70.92	71.61	71.61	71.83	0.016848	2.29	52.17	119.27	0.95
Asta 1	4510.4	tr 100	128.03	70.92	71.69	71.69	71.93	0.015546	2.39	61.90	127.27	0.93
Asta 1	4510.4	tr 200	152.17	70.92	71.75	71.75	72.02	0.014977	2.50	70.51	133.98	0.93

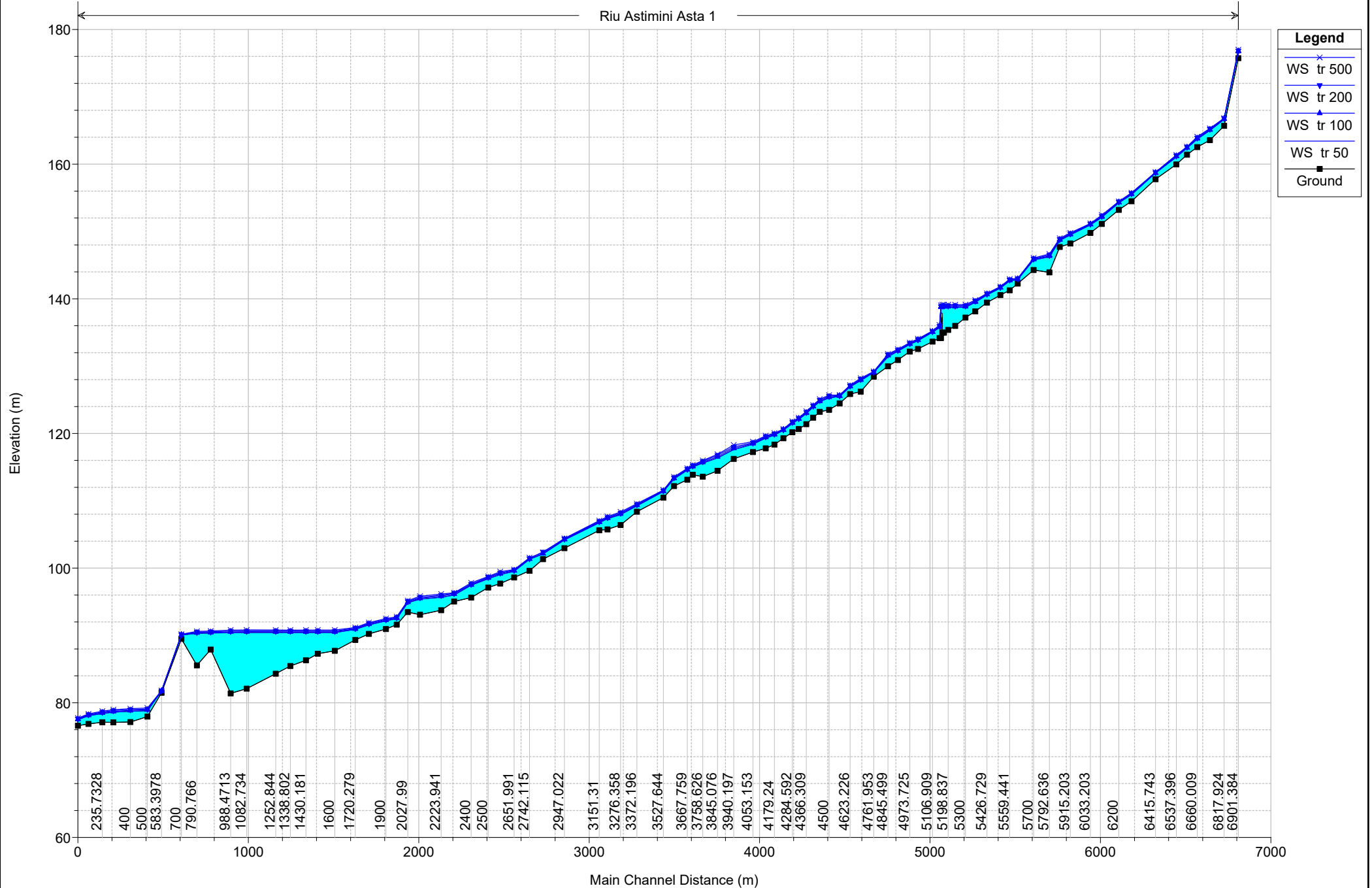
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 1	4510.4	tr 500	184.76	70.92	71.83	71.83	72.12	0.014441	2.63	81.55	142.12	0.93
Asta 1	4396.537	tr 50	104.47	69.07	70.94	69.58	70.94	0.000101	0.26	406.81	341.78	0.08
Asta 1	4396.537	tr 100	128.03	69.07	71.04	69.64	71.05	0.000117	0.29	443.44	351.67	0.08
Asta 1	4396.537	tr 200	152.17	69.07	71.01	69.70	71.02	0.000179	0.35	432.90	348.87	0.10
Asta 1	4396.537	tr 500	184.76	69.07	71.10	69.77	71.11	0.000212	0.40	463.60	357.05	0.11
Asta 1	4363.739		Culvert									
Asta 1	4326.87	tr 50	104.47	68.71	69.70		69.72	0.000756	0.66	195.66	291.39	0.22
Asta 1	4326.87	tr 100	128.03	68.71	69.79		69.81	0.000791	0.72	223.63	308.09	0.23
Asta 1	4326.87	tr 200	152.17	68.71	69.88		69.90	0.000822	0.77	249.94	316.95	0.23
Asta 1	4326.87	tr 500	184.76	68.71	69.98		70.01	0.000856	0.84	283.38	327.23	0.24
Asta 1	4244.259	tr 50	104.47	68.66	69.53		69.59	0.004302	1.14	105.80	200.23	0.42
Asta 1	4244.259	tr 100	128.03	68.66	69.61		69.68	0.004355	1.22	122.91	210.65	0.43
Asta 1	4244.259	tr 200	152.17	68.66	69.69		69.76	0.004421	1.30	139.02	218.60	0.44
Asta 1	4244.259	tr 500	184.76	68.66	69.78		69.87	0.004506	1.39	159.55	228.65	0.45
Asta 1	4179.926	tr 50	104.47	68.35	68.92		69.07	0.019061	1.81	68.85	163.90	0.78
Asta 1	4179.926	tr 100	128.03	68.35	68.99	68.93	69.16	0.019183	1.94	79.12	170.45	0.80
Asta 1	4179.926	tr 200	152.17	68.35	69.05	68.98	69.23	0.018951	2.06	89.62	176.84	0.80
Asta 1	4179.926	tr 500	184.76	68.35	69.12	69.06	69.33	0.018912	2.20	102.41	183.80	0.82
Asta 1	4100.533	tr 50	104.47	66.73	67.42	67.42	67.66	0.016465	2.37	53.58	121.75	0.95
Asta 1	4100.533	tr 100	128.03	66.73	67.50	67.50	67.76	0.015966	2.52	62.92	128.07	0.95
Asta 1	4100.533	tr 200	152.17	66.73	67.56	67.56	67.85	0.015784	2.66	71.71	133.20	0.96
Asta 1	4100.533	tr 500	184.76	66.73	67.65	67.65	67.97	0.015365	2.81	83.50	139.94	0.97
Asta 1	3999.456	tr 50	104.47	64.06	64.65	64.80	65.15	0.040251	3.47	35.40	91.41	1.49
Asta 1	3999.456	tr 100	128.03	64.06	64.70	64.88	65.28	0.040943	3.73	40.55	95.39	1.52
Asta 1	3999.456	tr 200	152.17	64.06	64.76	64.95	65.39	0.041091	3.95	45.70	99.21	1.55
Asta 1	3999.456	tr 500	184.76	64.06	64.82	65.04	65.53	0.041221	4.21	52.30	103.91	1.58
Asta 1	3890.631	tr 50	104.47	60.94	61.81	61.67	61.96	0.007412	1.87	64.07	109.99	0.66
Asta 1	3890.631	tr 100	128.03	60.94	61.88	61.75	62.06	0.007776	2.03	72.56	114.61	0.69
Asta 1	3890.631	tr 200	152.17	60.94	61.96	61.82	62.15	0.007913	2.16	81.33	119.14	0.71
Asta 1	3890.631	tr 500	184.76	60.94	62.06	61.91	62.28	0.007877	2.30	93.19	124.40	0.71
Asta 1	3707.248	tr 50	104.47	59.59	60.43	60.31	60.58	0.007619	1.92	64.88	120.44	0.70
Asta 1	3707.248	tr 100	128.03	59.59	60.52		60.68	0.007199	2.01	76.38	127.74	0.69
Asta 1	3707.248	tr 200	152.17	59.59	60.60	60.46	60.78	0.007096	2.12	86.64	133.29	0.69
Asta 1	3707.248	tr 500	184.76	59.59	60.69	60.55	60.89	0.007246	2.27	98.42	138.69	0.71
Asta 1	3404.86	tr 50	104.47	56.54	57.33	57.31	57.55	0.013621	2.16	54.07	114.15	0.87
Asta 1	3404.86	tr 100	128.03	56.54	57.39	57.38	57.65	0.014747	2.38	60.89	118.67	0.91
Asta 1	3404.86	tr 200	152.17	56.54	57.46	57.46	57.75	0.015000	2.53	68.62	123.60	0.93
Asta 1	3404.86	tr 500	184.76	56.54	57.55	57.55	57.87	0.014467	2.67	80.12	130.59	0.93
Asta 1	3285.588	tr 50	104.47	54.49	55.09	55.09	55.29	0.028224	2.10	54.09	136.34	0.92
Asta 1	3285.588	tr 100	128.03	54.49	55.16	55.16	55.37	0.025575	2.17	64.10	145.16	0.89
Asta 1	3285.588	tr 200	152.17	54.49	55.21	55.21	55.45	0.025535	2.29	71.86	151.53	0.91
Asta 1	3285.588	tr 500	184.76	54.49	55.26	55.29	55.55	0.027578	2.50	79.68	157.70	0.95
Asta 1	3186.233	tr 50	104.47	52.34	53.01	53.00	53.23	0.015411	2.21	53.21	118.22	0.91
Asta 1	3186.233	tr 100	128.03	52.34	53.10	53.07	53.32	0.013799	2.29	63.49	125.12	0.88
Asta 1	3186.233	tr 200	152.17	52.34	53.18	53.14	53.41	0.012536	2.35	73.91	131.75	0.86
Asta 1	3186.233	tr 500	184.76	52.34	53.28	53.22	53.53	0.011248	2.42	87.76	139.89	0.83
Asta 1	3029.871	tr 50	104.47	51.48	52.55		52.60	0.001630	0.99	118.30	166.26	0.32
Asta 1	3029.871	tr 100	128.03	51.48	52.66		52.71	0.001616	1.06	136.65	173.71	0.33
Asta 1	3029.871	tr 200	152.17	51.48	52.76		52.81	0.001607	1.12	154.41	180.64	0.33
Asta 1	3029.871	tr 500	184.76	51.48	52.88		52.95	0.001592	1.19	177.33	189.21	0.33
Asta 1	2845.205	tr 50	104.47	51.00	52.10		52.18	0.003232	1.40	85.64	128.03	0.45
Asta 1	2845.205	tr 100	128.03	51.00	52.20		52.30	0.003210	1.49	99.50	135.33	0.46
Asta 1	2845.205	tr 200	152.17	51.00	52.30		52.40	0.003230	1.58	112.56	140.58	0.47
Asta 1	2845.205	tr 500	184.76	51.00	52.42		52.54	0.003206	1.68	130.04	148.00	0.47
Asta 1	2700	tr 50	104.47	50.17	51.05	51.05	51.35	0.012053	2.62	46.70	81.53	0.94
Asta 1	2700	tr 100	128.03	50.17	51.14	51.14	51.47	0.011615	2.78	54.71	86.53	0.94
Asta 1	2700	tr 200	152.17	50.17	51.24	51.24	51.59	0.011079	2.90	62.98	91.33	0.93
Asta 1	2700	tr 500	184.76	50.17	51.34	51.34	51.73	0.010899	3.07	72.80	96.47	0.94
Asta 1	2600	tr 50	104.47	48.11	48.79	48.98	49.42	0.034341	3.82	31.94	71.63	1.56
Asta 1	2600	tr 100	128.03	48.11	48.86	49.08	49.57	0.034665	4.10	36.73	74.95	1.59
Asta 1	2600	tr 200	152.17	48.11	48.91	49.17	49.72	0.035416	4.38	41.17	77.91	1.63
Asta 1	2600	tr 500	184.76	48.11	48.99	49.28	49.89	0.034755	4.65	47.56	81.97	1.64
Asta 1	2500	tr 50	104.47	43.17	43.82	44.09	44.69	0.068490	4.52	27.07	67.13	1.90
Asta 1	2500	tr 100	128.03	43.17	43.89	44.18	44.85	0.067257	4.80	31.52	71.31	1.92
Asta 1	2500	tr 200	152.17	43.17	43.95	44.27	44.99	0.065523	5.04	36.04	75.31	1.93
Asta 1	2500	tr 500	184.76	43.17	44.02	44.38	45.19	0.066110	5.39	41.32	79.47	1.96

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 1	2400	tr 50	104.47	41.48	42.24	42.20	42.44	0.012597	2.17	55.62	113.42	0.84
Asta 1	2400	tr 100	128.03	41.48	42.32	42.28	42.55	0.012035	2.29	65.29	120.51	0.84
Asta 1	2400	tr 200	152.17	41.48	42.40	42.35	42.64	0.011551	2.39	74.85	126.60	0.83
Asta 1	2400	tr 500	184.76	41.48	42.50	42.44	42.76	0.011026	2.51	87.36	134.15	0.83
Asta 1	2317.374	tr 50	104.47	40.91	41.92		41.98	0.002760	1.20	99.09	153.16	0.41
Asta 1	2317.374	tr 100	128.03	40.91	42.01		42.08	0.002773	1.29	113.97	160.41	0.42
Asta 1	2317.374	tr 200	152.17	40.91	42.10		42.18	0.002767	1.37	128.71	167.27	0.42
Asta 1	2317.374	tr 500	184.76	40.91	42.21		42.30	0.002767	1.46	147.47	175.24	0.43
Asta 1	2200	tr 50	104.47	40.52	41.43		41.53	0.005536	1.53	88.63	149.71	0.53
Asta 1	2200	tr 100	128.03	40.52	41.52		41.63	0.005576	1.64	102.47	157.52	0.54
Asta 1	2200	tr 200	152.17	40.52	41.61		41.73	0.005581	1.74	116.18	164.88	0.55
Asta 1	2200	tr 500	184.76	40.52	41.71		41.85	0.005617	1.86	133.43	173.20	0.56
Asta 1	2100	tr 50	104.47	39.66	40.39	40.33	40.57	0.019782	1.94	60.29	124.91	0.81
Asta 1	2100	tr 100	128.03	39.66	40.46	40.40	40.67	0.019829	2.10	69.13	130.77	0.83
Asta 1	2100	tr 200	152.17	39.66	40.53	40.47	40.77	0.019810	2.24	77.85	136.29	0.85
Asta 1	2100	tr 500	184.76	39.66	40.61	40.56	40.88	0.019717	2.41	89.15	142.76	0.86
Asta 1	2026.531	tr 50	104.47	38.52	39.41		39.57	0.009910	1.90	68.81	122.42	0.69
Asta 1	2026.531	tr 100	128.03	38.52	39.50		39.68	0.009627	2.02	80.55	129.27	0.69
Asta 1	2026.531	tr 200	152.17	38.52	39.59		39.78	0.009400	2.13	92.09	135.59	0.69
Asta 1	2026.531	tr 500	184.76	38.52	39.70		39.91	0.009155	2.25	107.05	143.37	0.70
Asta 1	1879.237	tr 50	104.47	37.62	38.49		38.61	0.004508	1.69	78.19	133.88	0.59
Asta 1	1879.237	tr 100	128.03	37.62	38.57		38.72	0.004654	1.83	89.86	140.39	0.61
Asta 1	1879.237	tr 200	152.17	37.62	38.65		38.82	0.004789	1.96	101.08	145.95	0.63
Asta 1	1879.237	tr 500	184.76	37.62	38.75		38.94	0.004954	2.12	115.32	152.72	0.65
Asta 1	1818.7	tr 50	104.47	37.39	38.22		38.33	0.004616	1.61	76.50	140.55	0.59
Asta 1	1818.7	tr 100	128.03	37.39	38.29		38.43	0.004868	1.76	87.02	147.07	0.62
Asta 1	1818.7	tr 200	152.17	37.39	38.36		38.51	0.005110	1.90	97.03	152.86	0.64
Asta 1	1818.7	tr 500	184.76	37.39	38.44		38.62	0.005367	2.06	110.00	160.34	0.67
Asta 1	1700	tr 50	104.47	36.87	37.51		37.64	0.007609	1.79	69.91	165.59	0.73
Asta 1	1700	tr 100	128.03	36.87	37.58		37.72	0.007387	1.89	81.60	174.09	0.73
Asta 1	1700	tr 200	152.17	36.87	37.64		37.80	0.007264	1.99	92.51	182.03	0.74
Asta 1	1700	tr 500	184.76	36.87	37.71		37.89	0.007166	2.11	106.70	193.76	0.75
Asta 1	1600	tr 50	104.47	36.22	36.95	36.79	37.03	0.004728	1.44	88.71	193.67	0.57
Asta 1	1600	tr 100	128.03	36.22	37.02		37.11	0.004889	1.56	101.68	206.05	0.59
Asta 1	1600	tr 200	152.17	36.22	37.08		37.19	0.004967	1.66	114.86	218.37	0.60
Asta 1	1600	tr 500	184.76	36.22	37.15		37.27	0.005101	1.79	130.99	229.30	0.62
Asta 1	1500	tr 50	104.47	35.58	36.11	36.11	36.28	0.013188	2.02	60.26	179.29	0.93
Asta 1	1500	tr 100	128.03	35.58	36.17	36.17	36.36	0.012565	2.12	71.03	189.96	0.92
Asta 1	1500	tr 200	152.17	35.58	36.22	36.22	36.43	0.012482	2.24	80.60	197.98	0.93
Asta 1	1500	tr 500	184.76	35.58	36.28	36.28	36.51	0.012134	2.37	93.70	209.51	0.94
Asta 1	1429.037	tr 50	104.47	34.28	34.90	34.96	35.17	0.018792	2.46	50.65	149.74	1.09
Asta 1	1429.037	tr 100	128.03	34.28	34.96	35.02	35.26	0.019331	2.66	58.69	162.23	1.13
Asta 1	1429.037	tr 200	152.17	34.28	35.01	35.09	35.33	0.019047	2.80	67.31	170.10	1.14
Asta 1	1429.037	tr 500	184.76	34.28	35.07	35.15	35.43	0.019293	2.99	77.49	178.43	1.16
Asta 1	1319.883	tr 50	104.47	32.61	33.28	33.20	33.42	0.011139	1.63	65.44	152.08	0.75
Asta 1	1319.883	tr 100	128.03	32.61	33.35	33.26	33.50	0.010401	1.73	76.59	160.47	0.74
Asta 1	1319.883	tr 200	152.17	32.61	33.40	33.32	33.57	0.011416	1.90	83.36	165.40	0.78
Asta 1	1319.883	tr 500	184.76	32.61	33.46	33.39	33.67	0.011948	2.07	93.65	172.69	0.81
Asta 1	1200	tr 50	104.47	30.66	31.74	31.74	31.89	0.014854	2.68	65.53	199.53	0.93
Asta 1	1200	tr 100	128.03	30.66	31.77	31.77	31.96	0.016559	2.91	73.67	215.02	0.99
Asta 1	1200	tr 200	152.17	30.66	31.84	31.84	32.02	0.015097	2.92	89.96	254.64	0.96
Asta 1	1200	tr 500	184.76	30.66	31.91	31.91	32.09	0.014607	3.01	108.48	309.52	0.95
Asta 1	1100	tr 50	128.48	28.63	29.82	29.77	30.18	0.013560	3.08	52.27	73.48	0.94
Asta 1	1100	tr 100	155.75	28.63	29.88	29.93	30.33	0.016240	3.49	56.55	77.33	1.04
Asta 1	1100	tr 200	183.53	28.63	29.99	30.04	30.47	0.015568	3.63	65.35	85.23	1.03
Asta 1	1100	tr 500	220.81	28.63	30.13	30.19	30.62	0.014337	3.74	78.43	97.41	1.01
Asta 1	1000	tr 50	128.48	27.85	28.93	28.81	29.13	0.007679	2.21	69.84	105.79	0.70
Asta 1	1000	tr 100	155.75	27.85	29.02	28.90	29.25	0.007773	2.36	80.38	113.69	0.72
Asta 1	1000	tr 200	183.53	27.85	29.11	29.00	29.36	0.007898	2.50	90.20	119.08	0.73
Asta 1	1000	tr 500	220.81	27.85	29.22	29.09	29.49	0.007836	2.64	103.83	126.56	0.74
Asta 1	899.9999	tr 50	128.48	26.91	27.80	27.80	28.10	0.014292	2.58	56.41	94.22	0.92
Asta 1	899.9999	tr 100	155.75	26.91	27.89	27.89	28.22	0.014096	2.74	64.47	95.86	0.93
Asta 1	899.9999	tr 200	183.53	26.91	27.97	27.97	28.33	0.013645	2.87	72.66	97.43	0.93
Asta 1	899.9999	tr 500	220.81	26.91	28.07	28.07	28.47	0.013600	3.04	81.84	97.95	0.94
Asta 1	799.9999	tr 50	128.48	25.78	26.91	26.70	27.02	0.004876	1.69	93.59	144.42	0.55
Asta 1	799.9999	tr 100	155.75	25.78	27.01	26.79	27.12	0.004642	1.76	107.66	145.48	0.55

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 1	799.9999	tr 200	183.53	25.78	27.10	26.84	27.22	0.004522	1.83	120.58	146.46	0.55
Asta 1	799.9999	tr 500	220.81	25.78	27.21	26.91	27.35	0.004301	1.91	137.82	147.75	0.54
Asta 1	700	tr 50	128.48	25.12	26.04	25.97	26.28	0.011638	2.30	60.10	94.33	0.83
Asta 1	700	tr 100	155.75	25.12	26.12	26.06	26.40	0.011941	2.49	68.20	106.42	0.85
Asta 1	700	tr 200	183.53	25.12	26.20	26.15	26.52	0.011714	2.63	77.76	117.14	0.86
Asta 1	700	tr 500	220.81	25.12	26.29	26.24	26.65	0.012140	2.84	88.73	124.31	0.89
Asta 1	599.9999	tr 50	128.48	23.89	24.97	24.92	25.18	0.010246	2.54	67.17	109.23	0.81
Asta 1	599.9999	tr 100	155.75	23.89	25.06	24.99	25.29	0.010102	2.67	76.72	112.27	0.81
Asta 1	599.9999	tr 200	183.53	23.89	25.13	25.05	25.40	0.010488	2.84	85.02	115.93	0.84
Asta 1	599.9999	tr 500	220.81	23.89	25.24	25.14	25.53	0.010110	2.96	98.05	121.50	0.84
Asta 1	499.9999	tr 50	128.48	22.12	23.81	23.81	24.06	0.012388	3.48	64.84	117.21	0.92
Asta 1	499.9999	tr 100	155.75	22.12	23.88	23.88	24.16	0.012735	3.65	73.58	121.50	0.94
Asta 1	499.9999	tr 200	183.53	22.12	23.96	23.96	24.25	0.012499	3.73	83.11	125.77	0.93
Asta 1	499.9999	tr 500	220.81	22.12	24.03	24.03	24.37	0.013368	3.97	92.14	128.72	0.97
Asta 1	346.3488	tr 50	128.48	20.35	21.84	21.59	21.90	0.003697	1.67	121.66	216.49	0.49
Asta 1	346.3488	tr 100	155.75	20.35	21.92	21.65	21.99	0.003461	1.69	141.29	221.98	0.48
Asta 1	346.3488	tr 200	183.53	20.35	22.02	21.70	22.09	0.003045	1.67	163.01	224.60	0.45
Asta 1	346.3488	tr 500	220.81	20.35	22.14	21.76	22.21	0.002679	1.65	190.56	227.85	0.43
Asta 1	168.9657	tr 50	128.48	18.11	20.55	20.55	20.97	0.007358	3.46	53.24	75.06	0.76
Asta 1	168.9657	tr 100	155.75	18.11	20.72	20.72	21.12	0.006823	3.50	65.95	78.23	0.74
Asta 1	168.9657	tr 200	183.53	18.11	20.81	20.81	21.26	0.007285	3.72	73.51	78.57	0.77
Asta 1	168.9657	tr 500	220.81	18.11	20.94	20.94	21.42	0.007659	3.95	83.30	79.00	0.80
Asta 1	70.38914	tr 50	128.48	18.08	19.29	19.40	19.77	0.023508	4.09	44.09	71.37	1.24
Asta 1	70.38914	tr 100	155.75	18.08	19.35	19.51	19.93	0.026052	4.46	48.45	73.33	1.31
Asta 1	70.38914	tr 200	183.53	18.08	19.46	19.60	20.06	0.023519	4.48	56.29	77.48	1.26
Asta 1	70.38914	tr 500	220.81	18.08	19.56	19.71	20.21	0.022223	4.60	64.75	78.10	1.25

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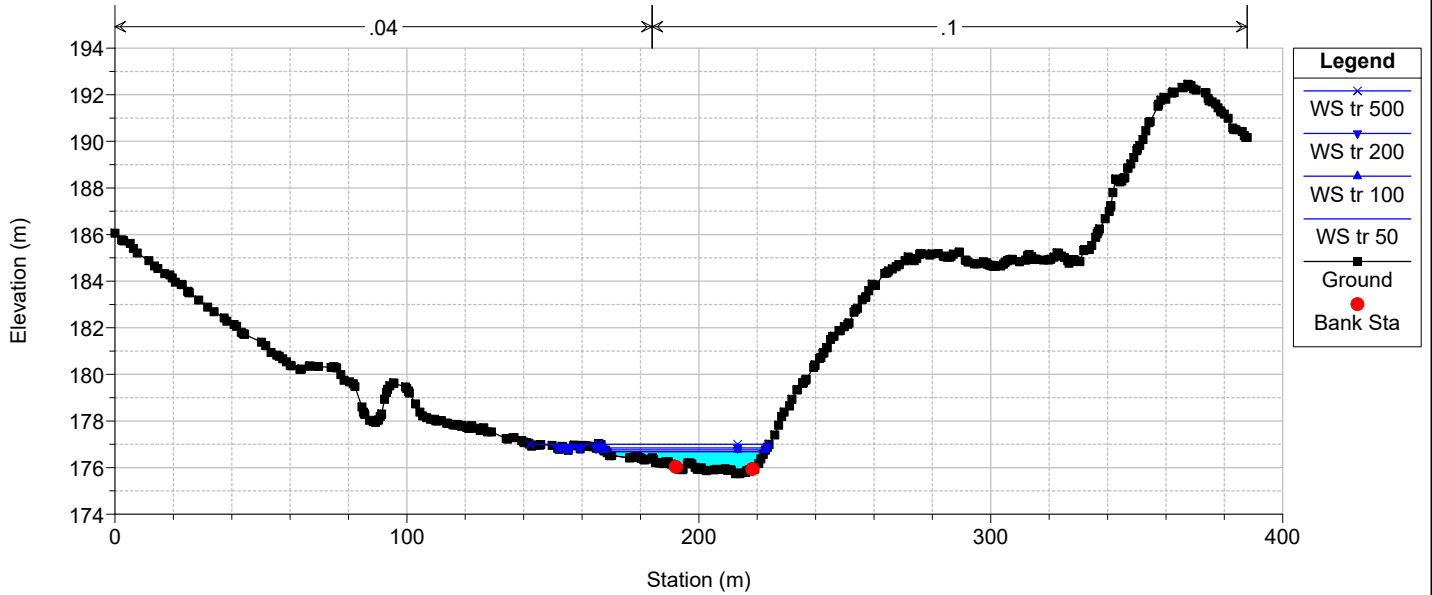
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

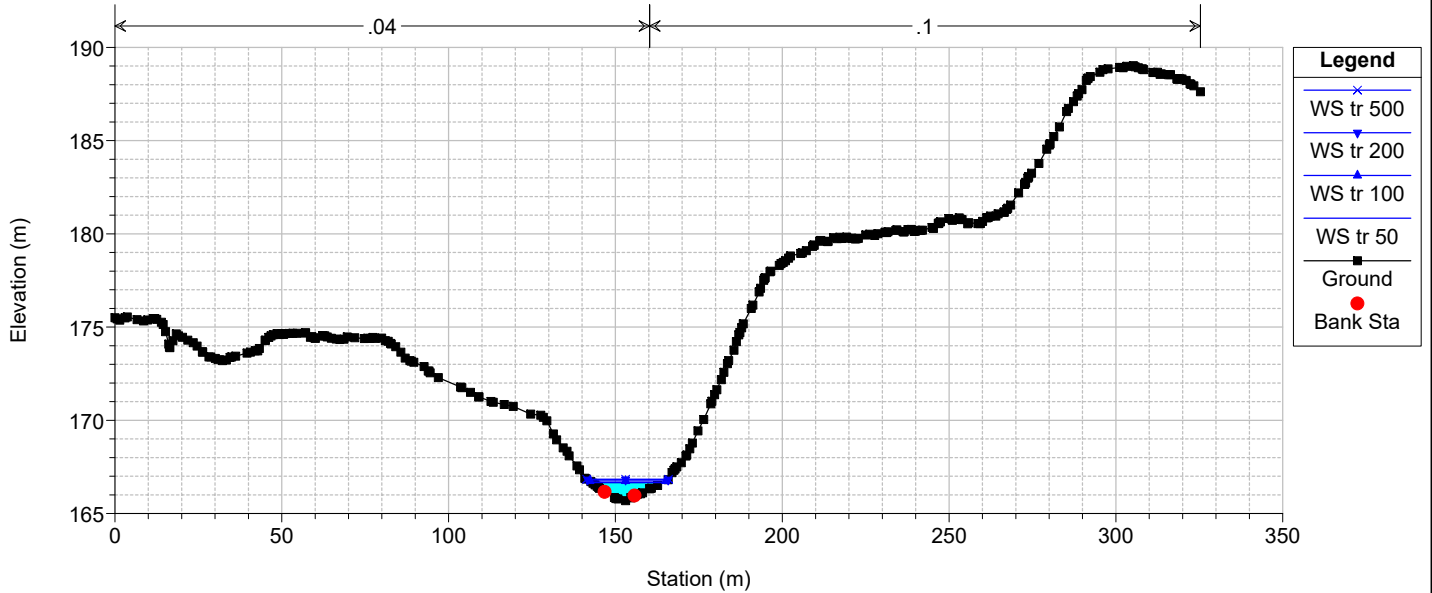
River = Riu Astimini Reach = Asta 1 RS = 6901.384 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

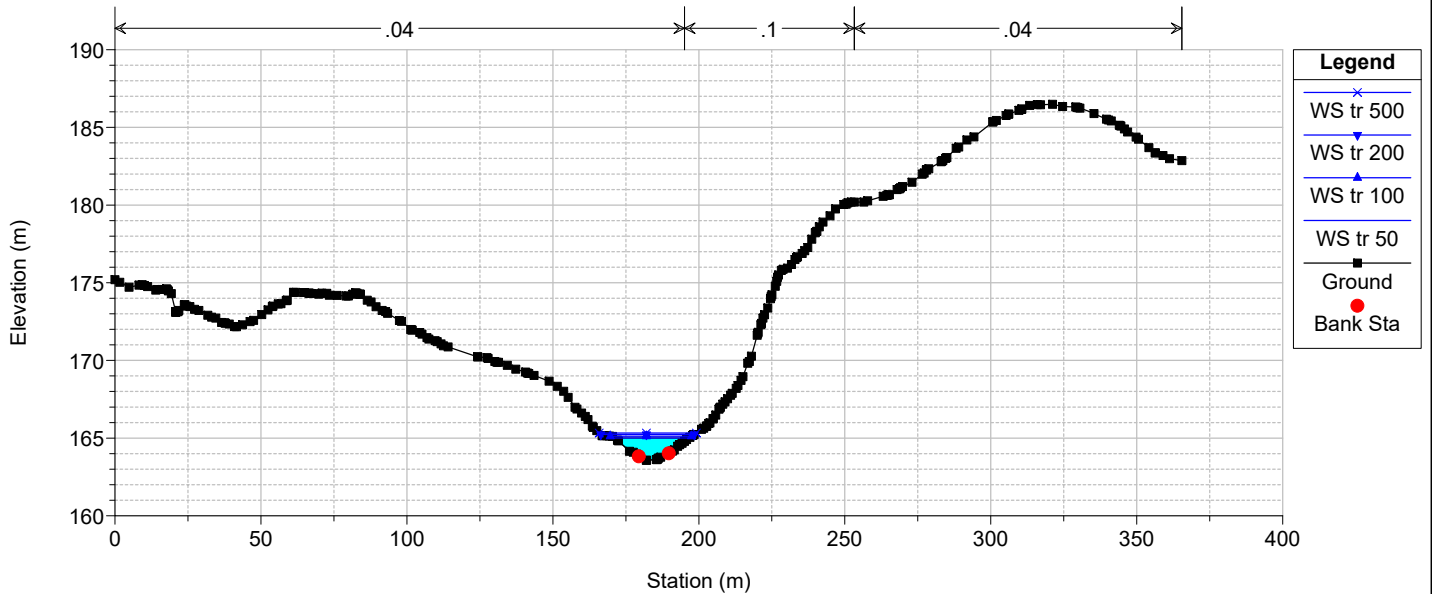
River = Riu Astimini Reach = Asta 1 RS = 6817.924 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

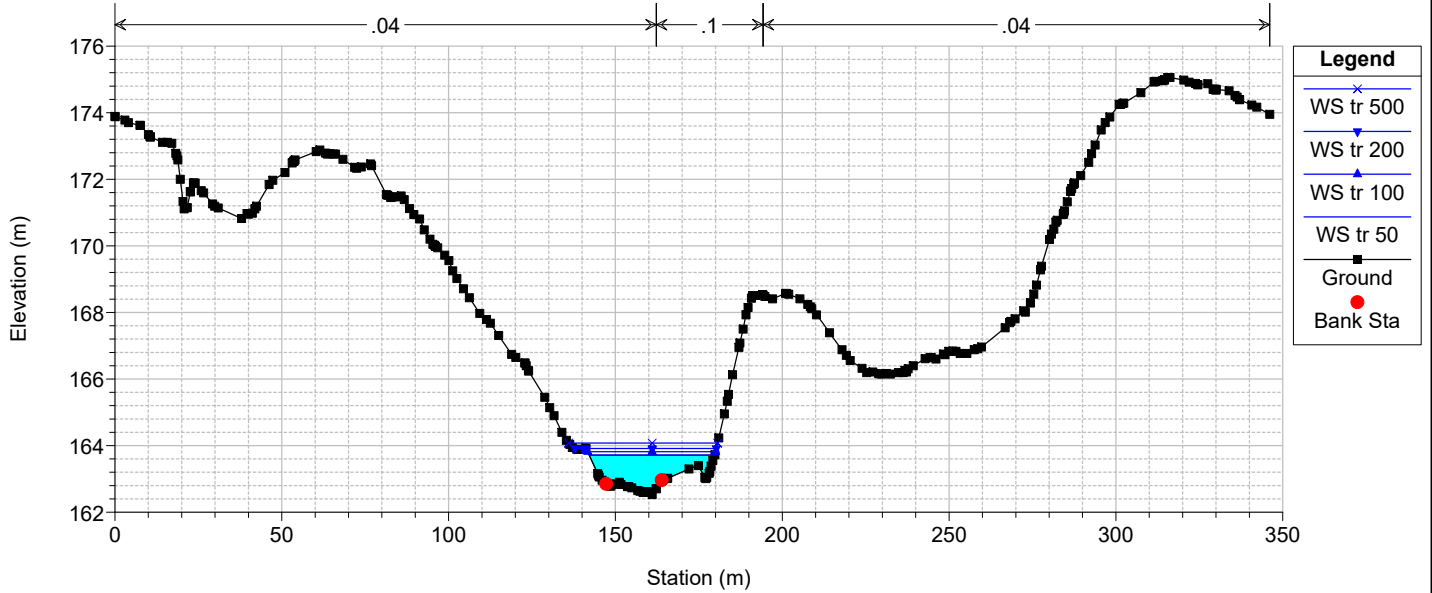
River = Riu Astimini Reach = Asta 1 RS = 6734.542 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

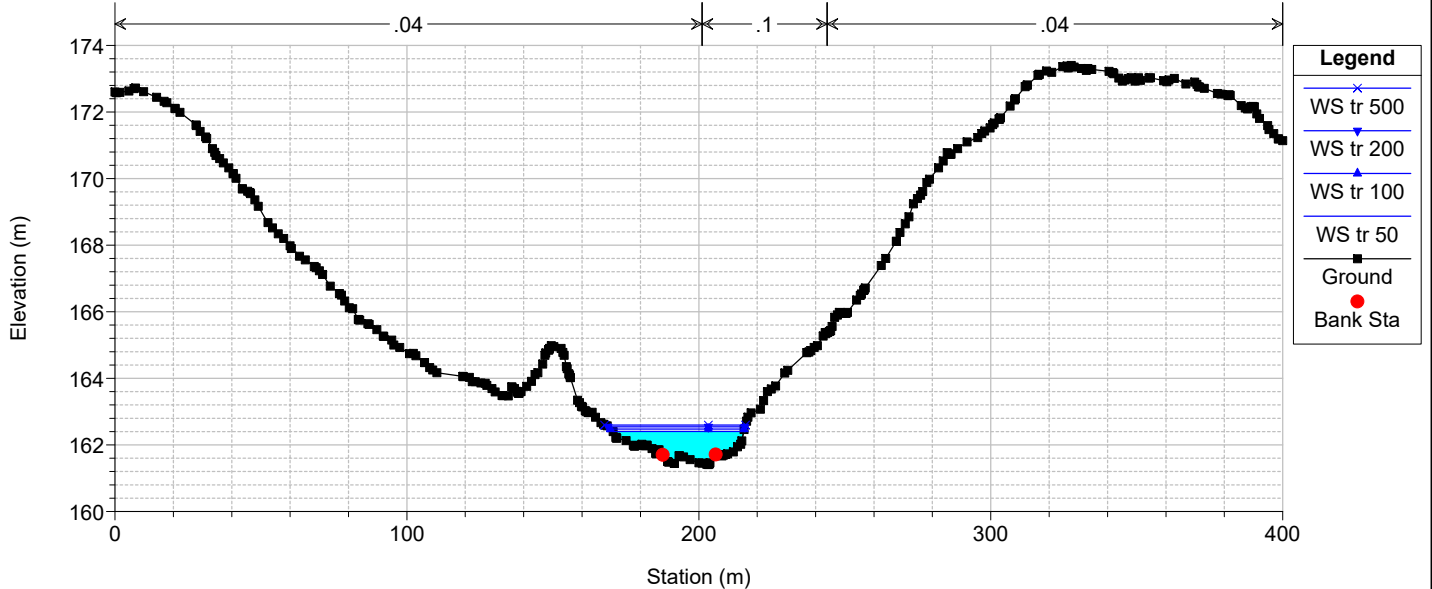
River = Riu Astimini Reach = Asta 1 RS = 6660.009 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

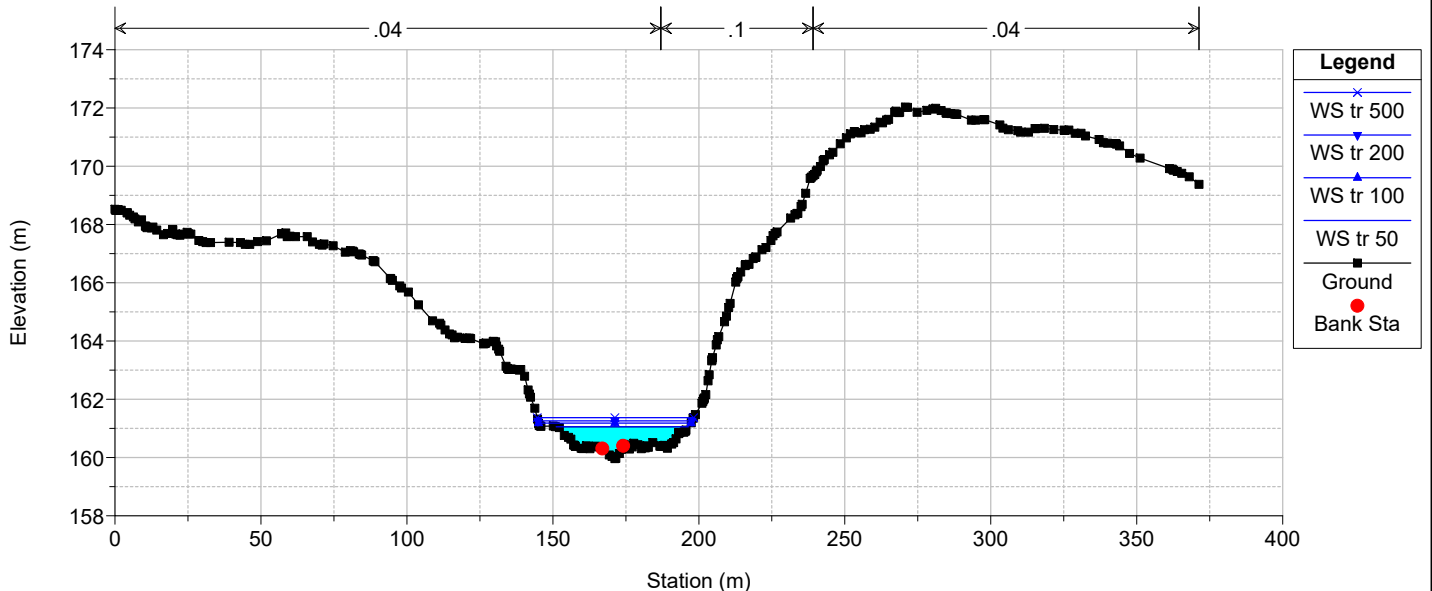
River = Riu Astimini Reach = Asta 1 RS = 6600 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

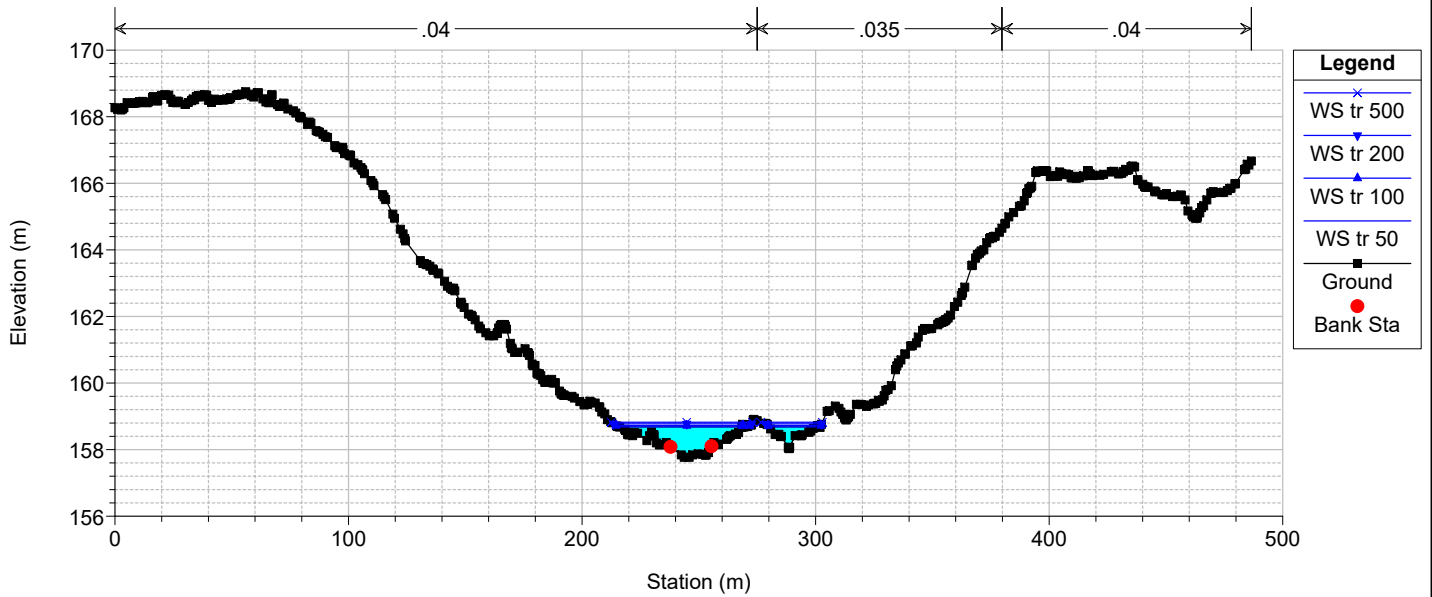
River = Riu Astimini Reach = Asta 1 RS = 6537.396 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

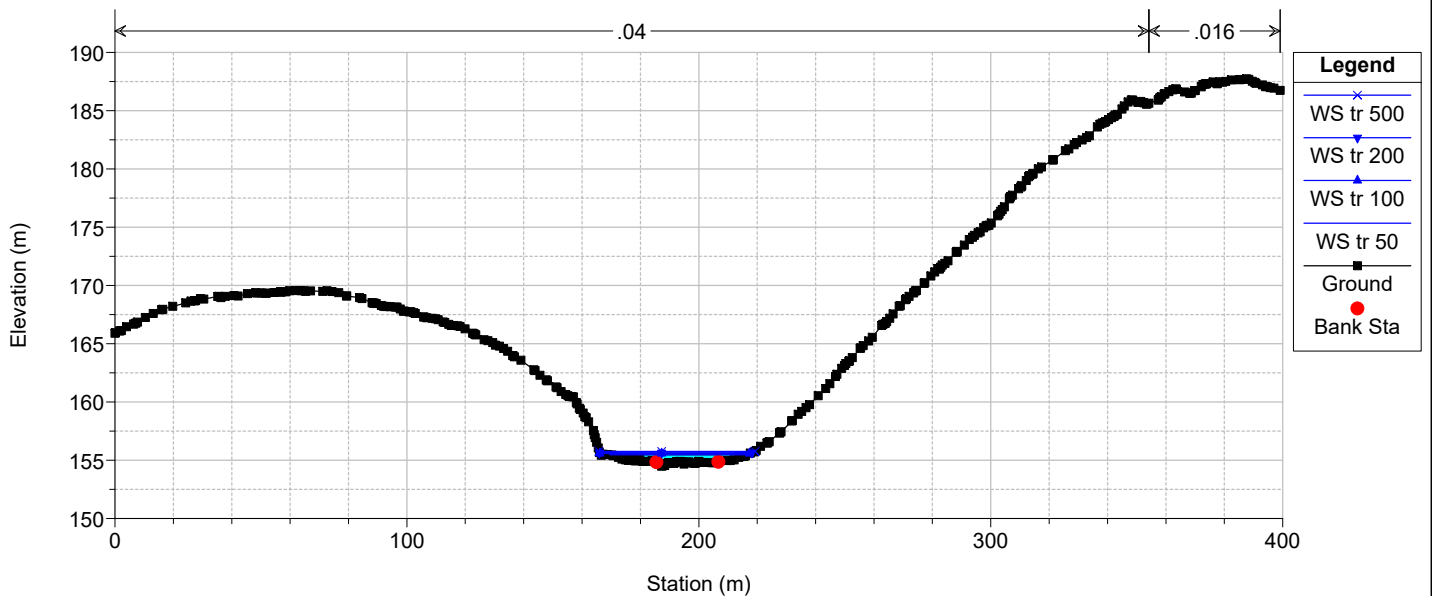
River = Riu Astimini Reach = Asta 1 RS = 6415.743 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

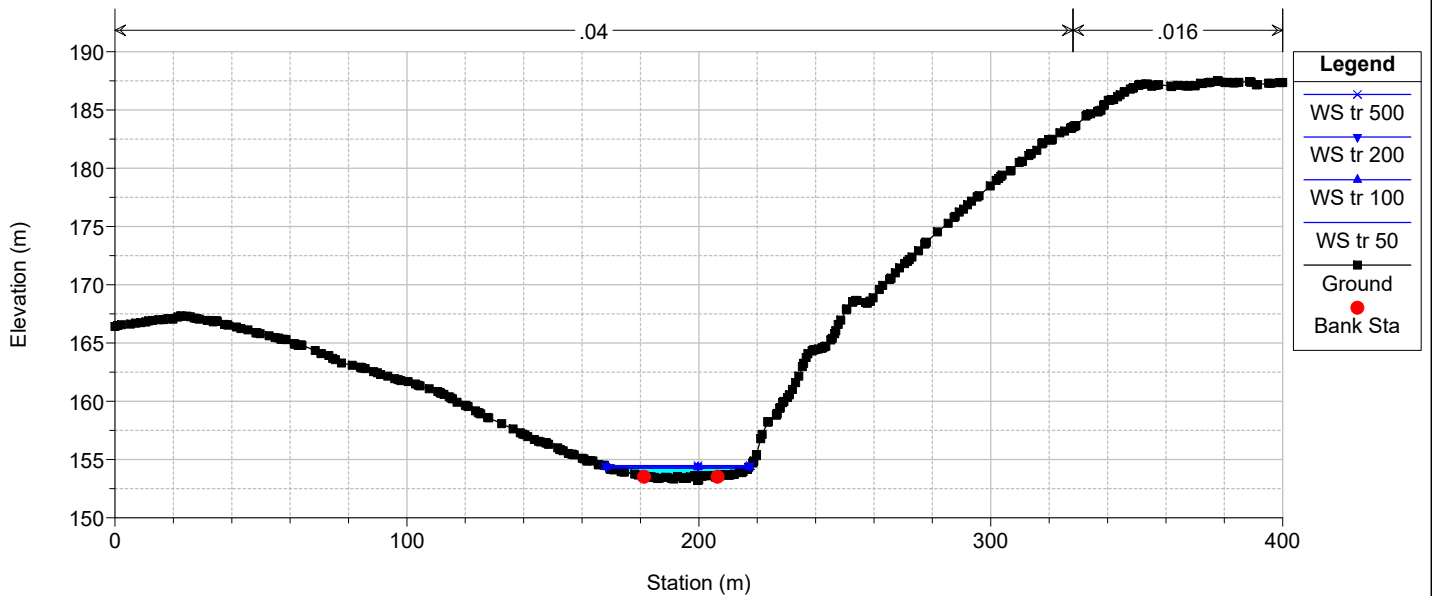
River = Riu Astimini Reach = Asta 1 RS = 6274.141 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

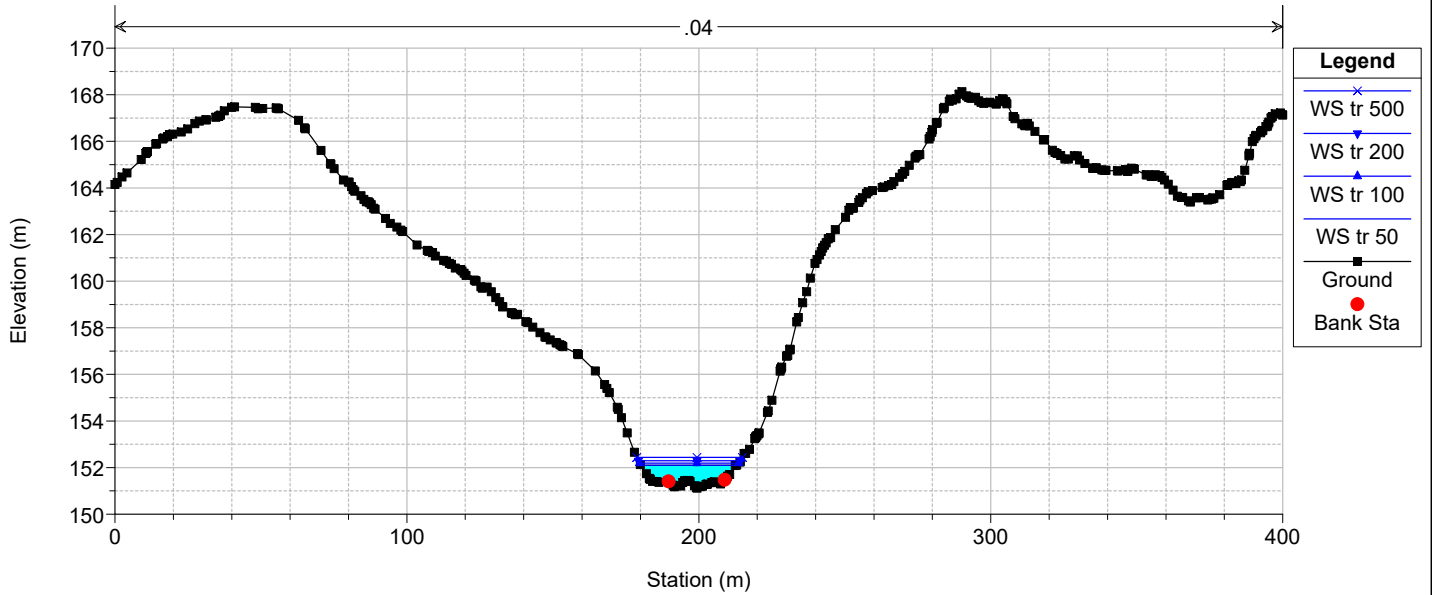
River = Riu Astimini Reach = Asta 1 RS = 6200 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

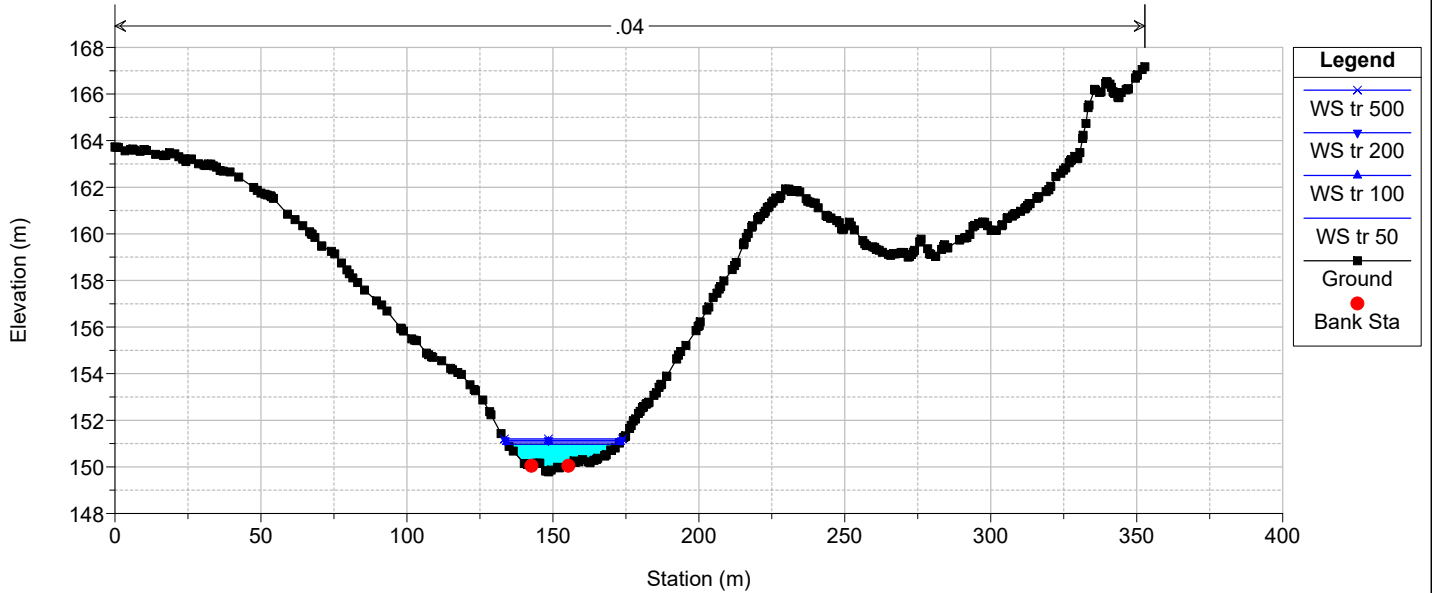
River = Riu Astimini Reach = Asta 1 RS = 6100 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

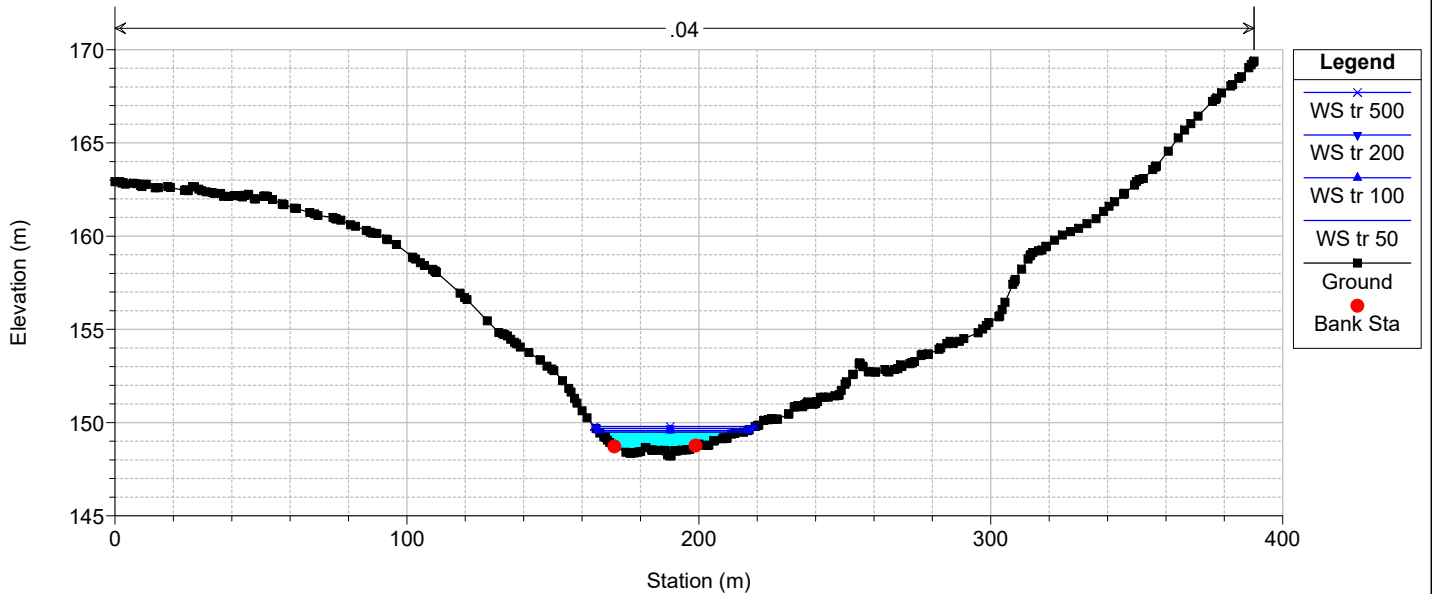
River = Riu Astimini Reach = Asta 1 RS = 6033.203 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

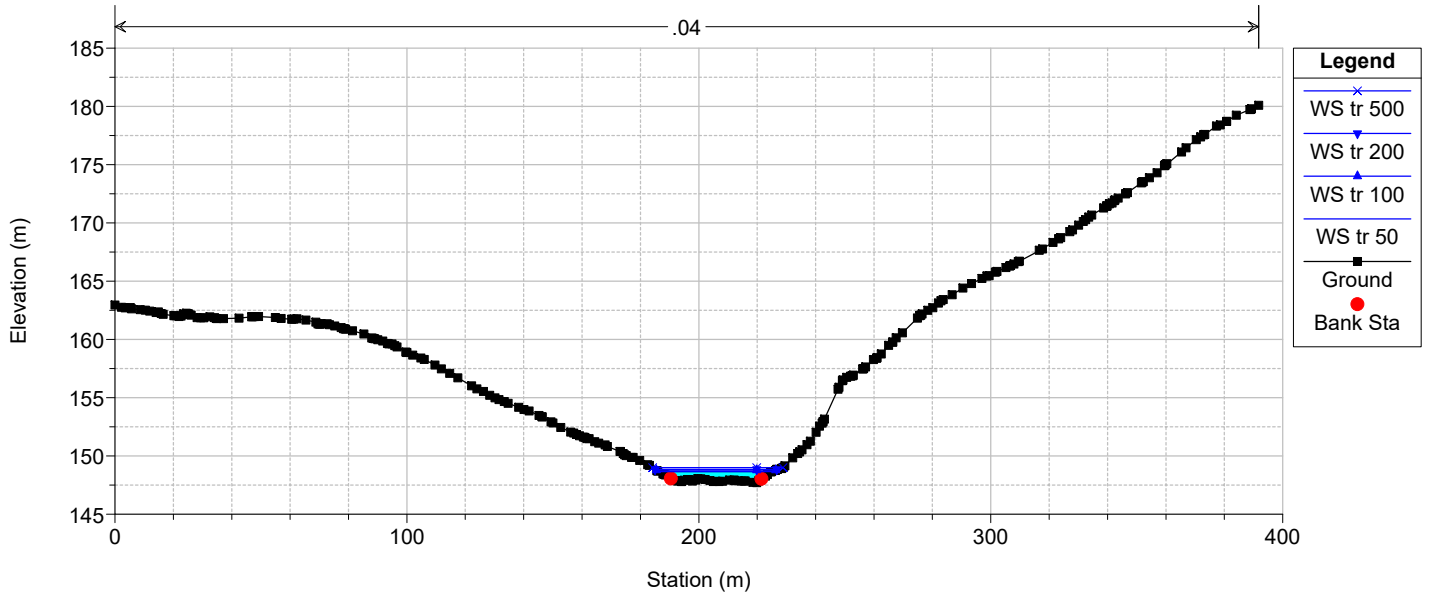
River = Riu Astimini Reach = Asta 1 RS = 5915.203 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

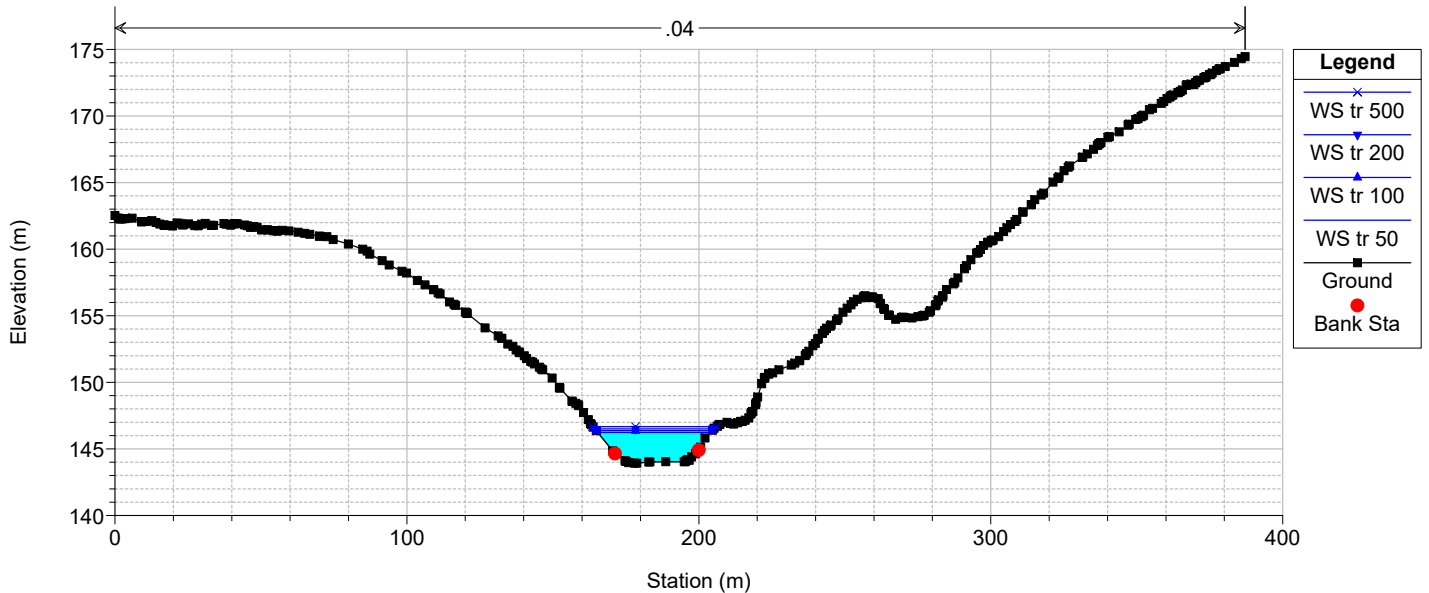
River = Riu Astimini Reach = Asta 1 RS = 5853.221 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

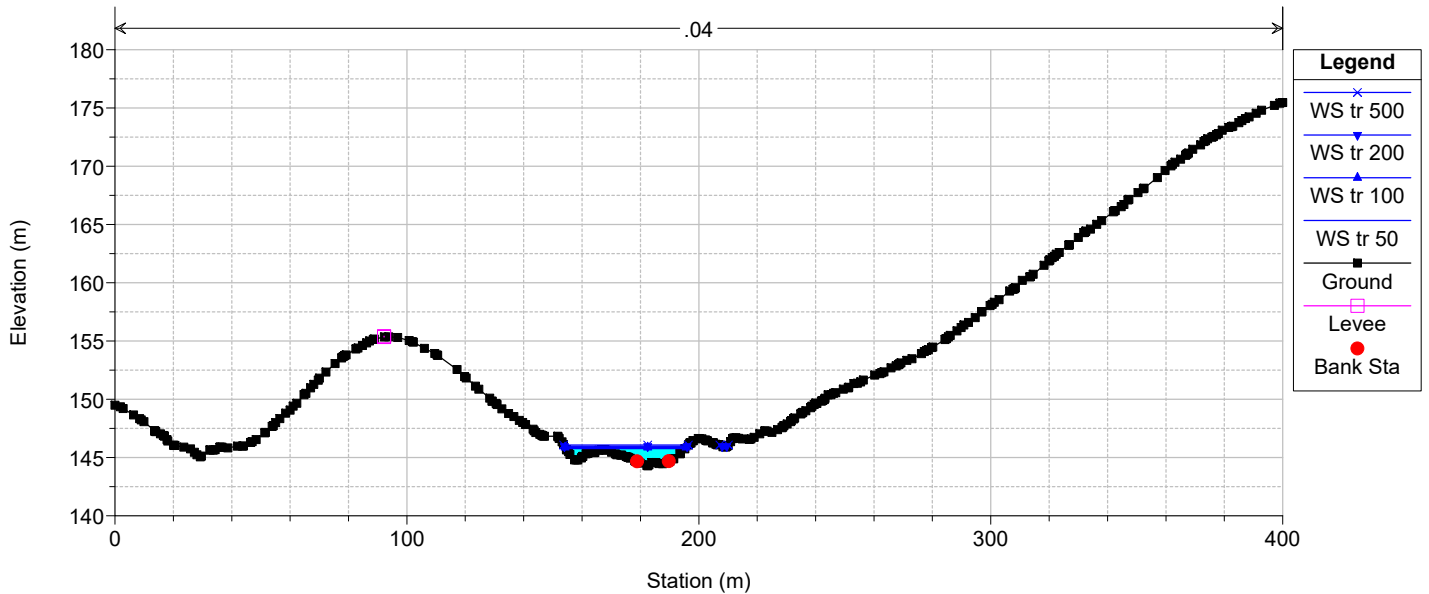
River = Riu Astimini Reach = Asta 1 RS = 5792.636 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

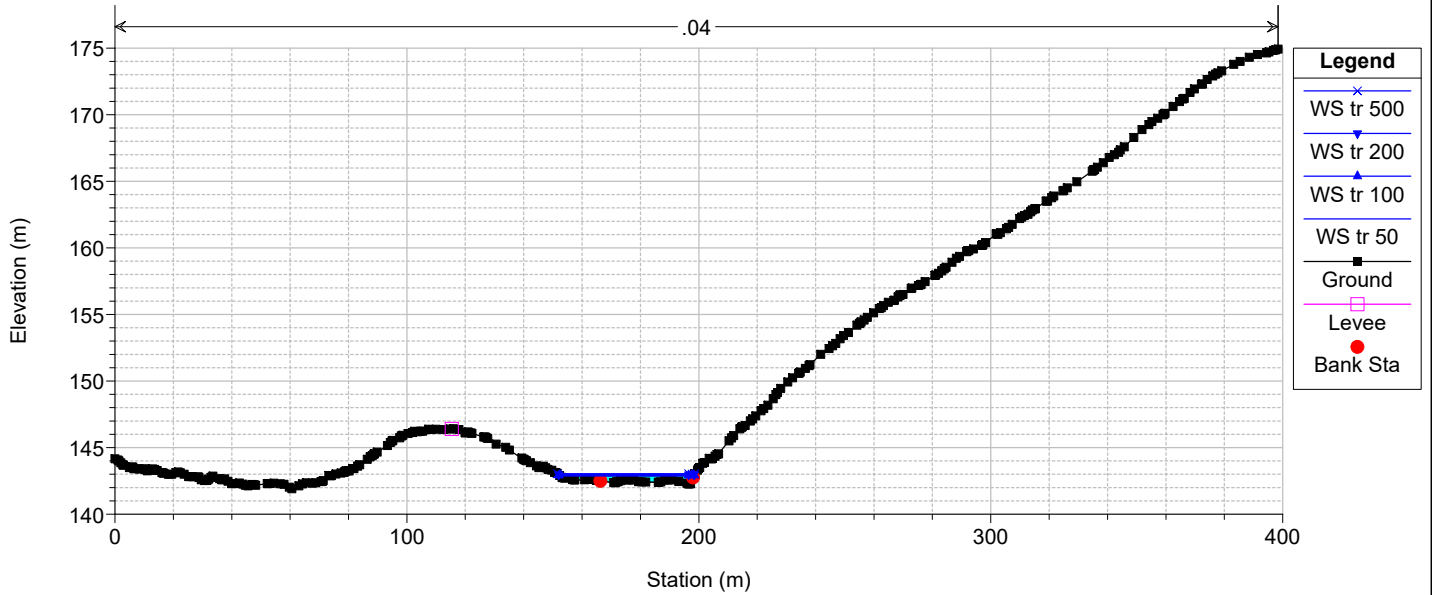
River = Riu Astimini Reach = Asta 1 RS = 5700 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

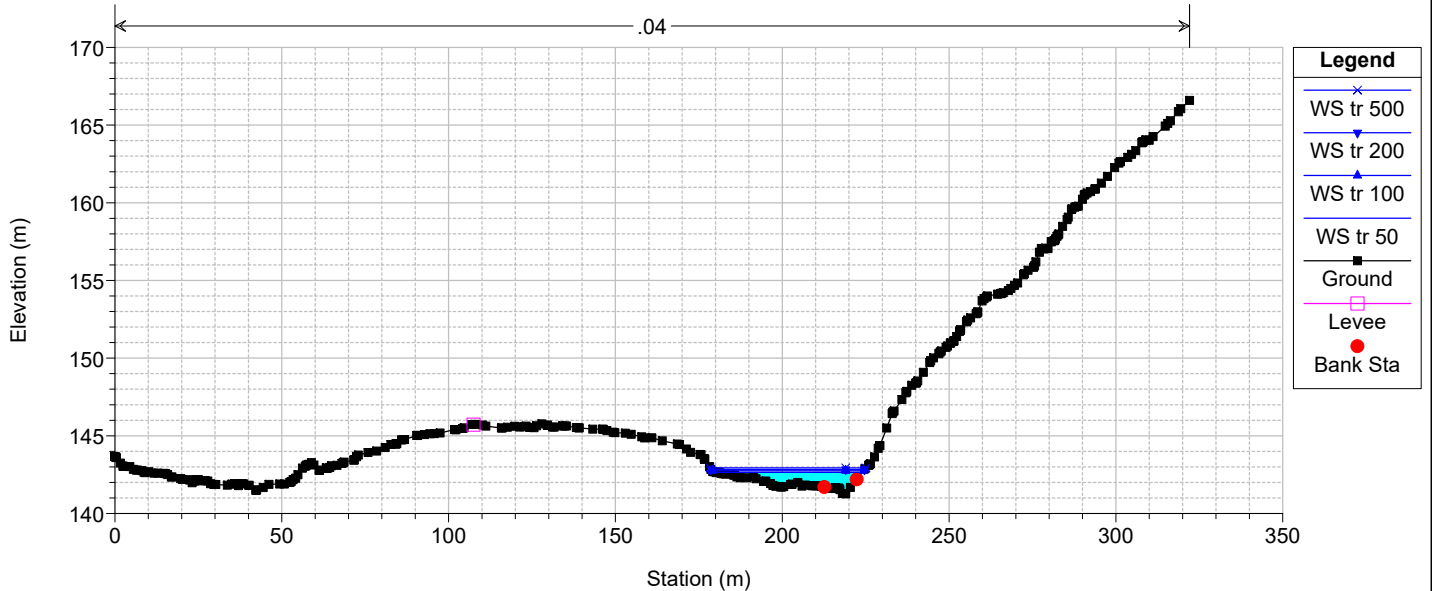
River = Riu Astimini Reach = Asta 1 RS = 5606.676 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

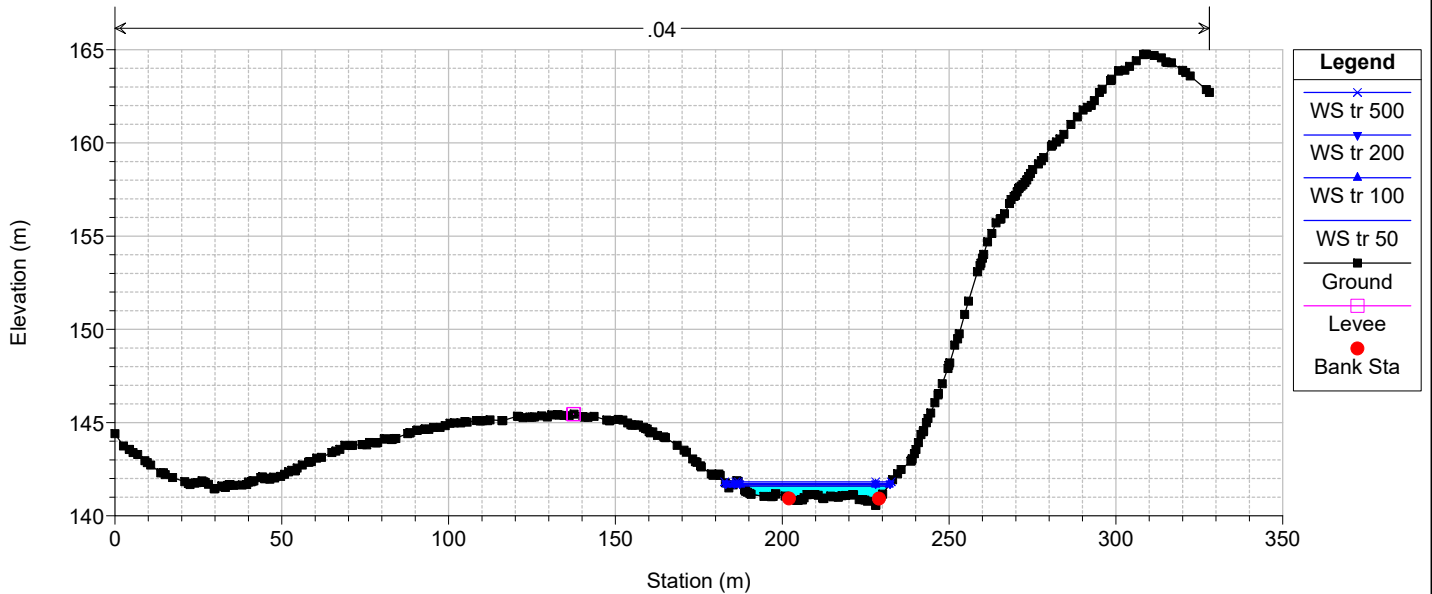
River = Riu Astimini Reach = Asta 1 RS = 5559.441 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

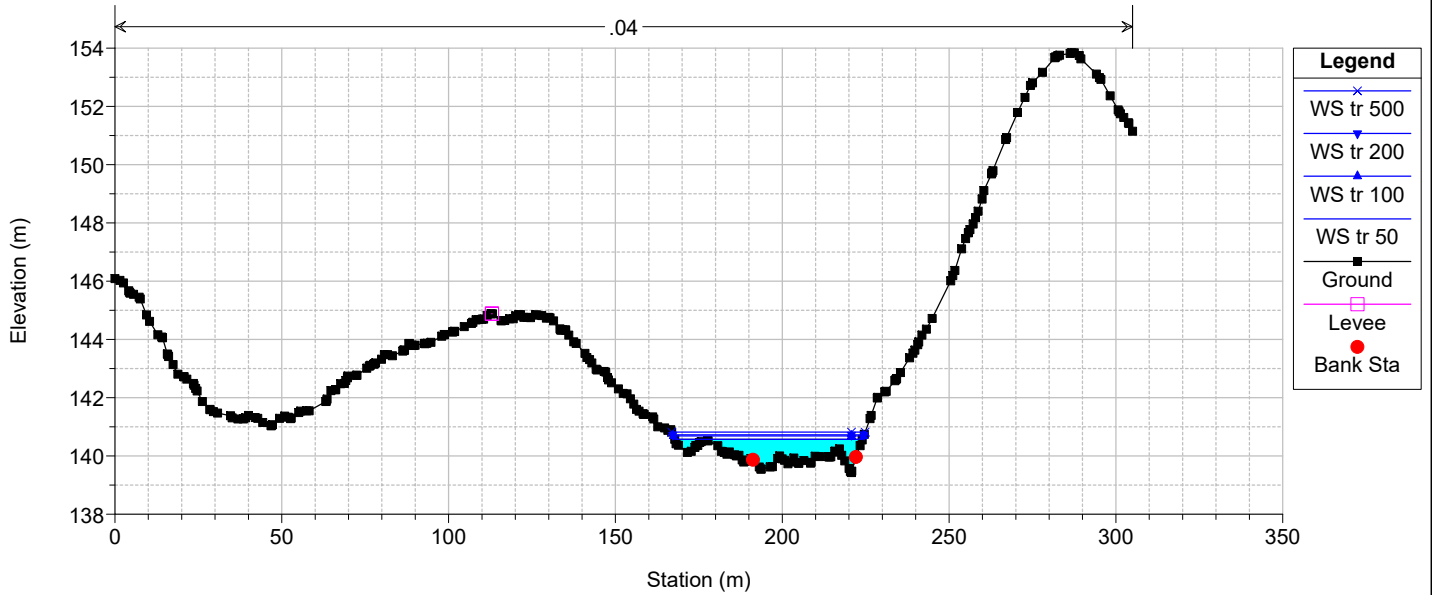
River = Riu Astimini Reach = Asta 1 RS = 5504.935 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

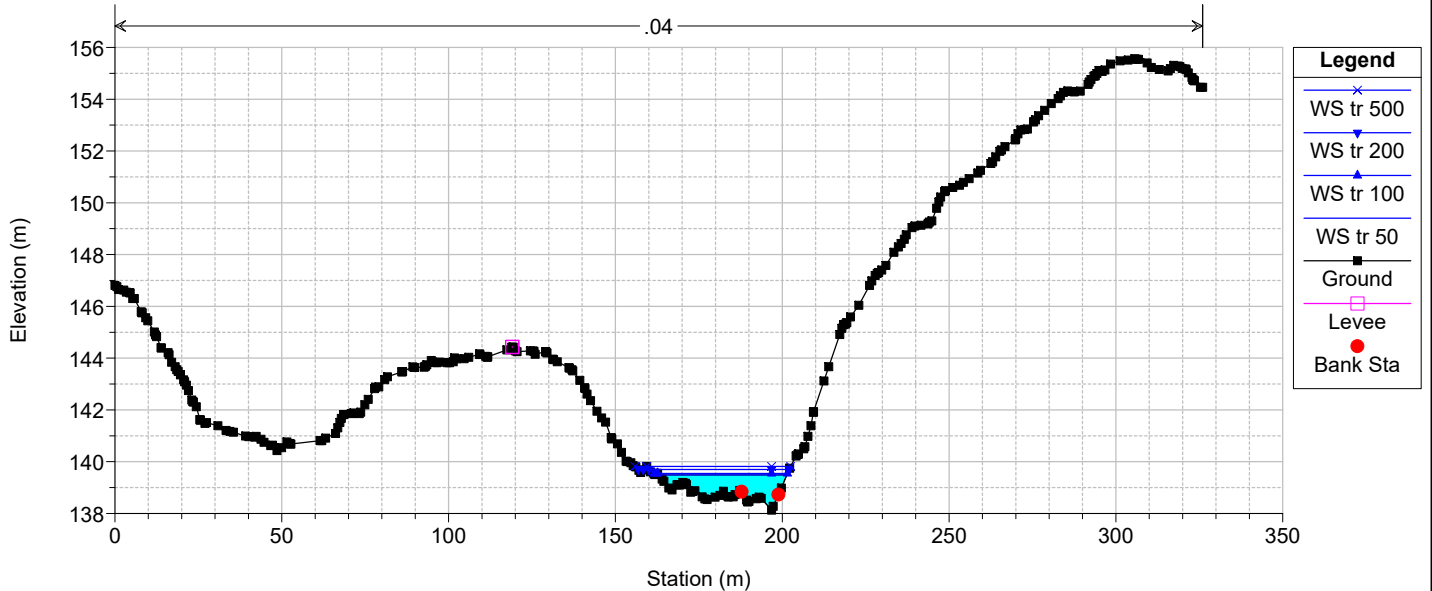
River = Riu Astimini Reach = Asta 1 RS = 5426.729 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

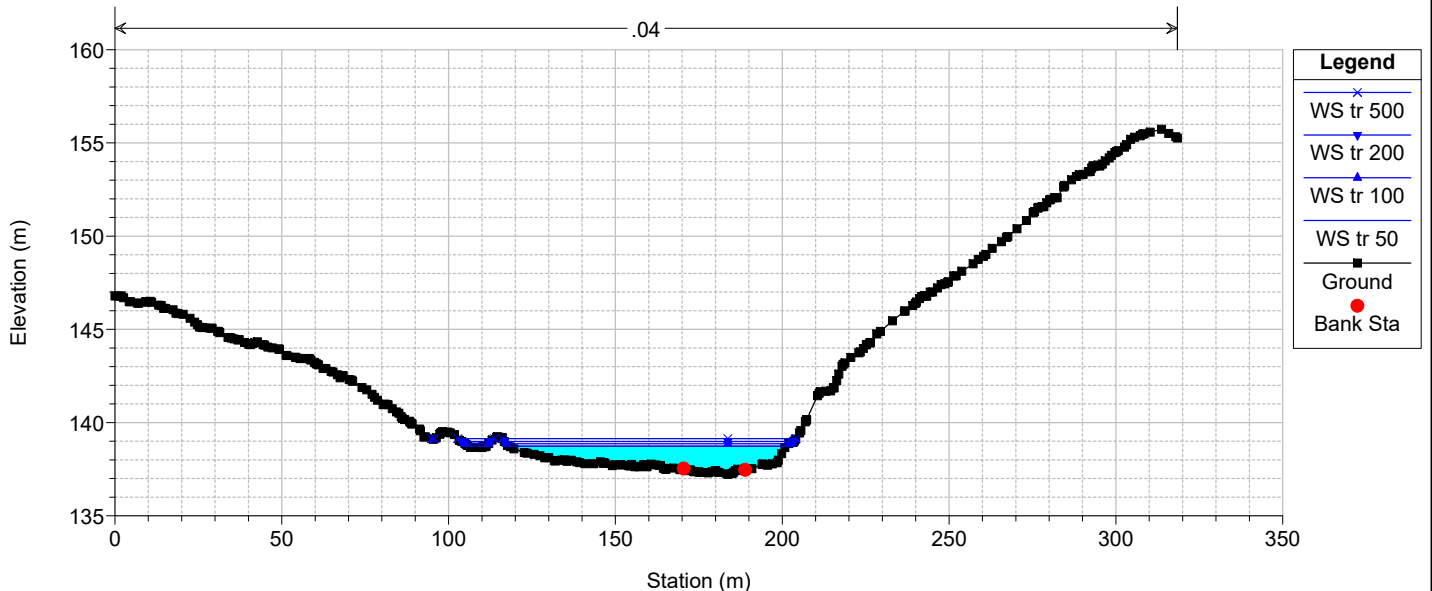
River = Riu Astimini Reach = Asta 1 RS = 5357.652 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

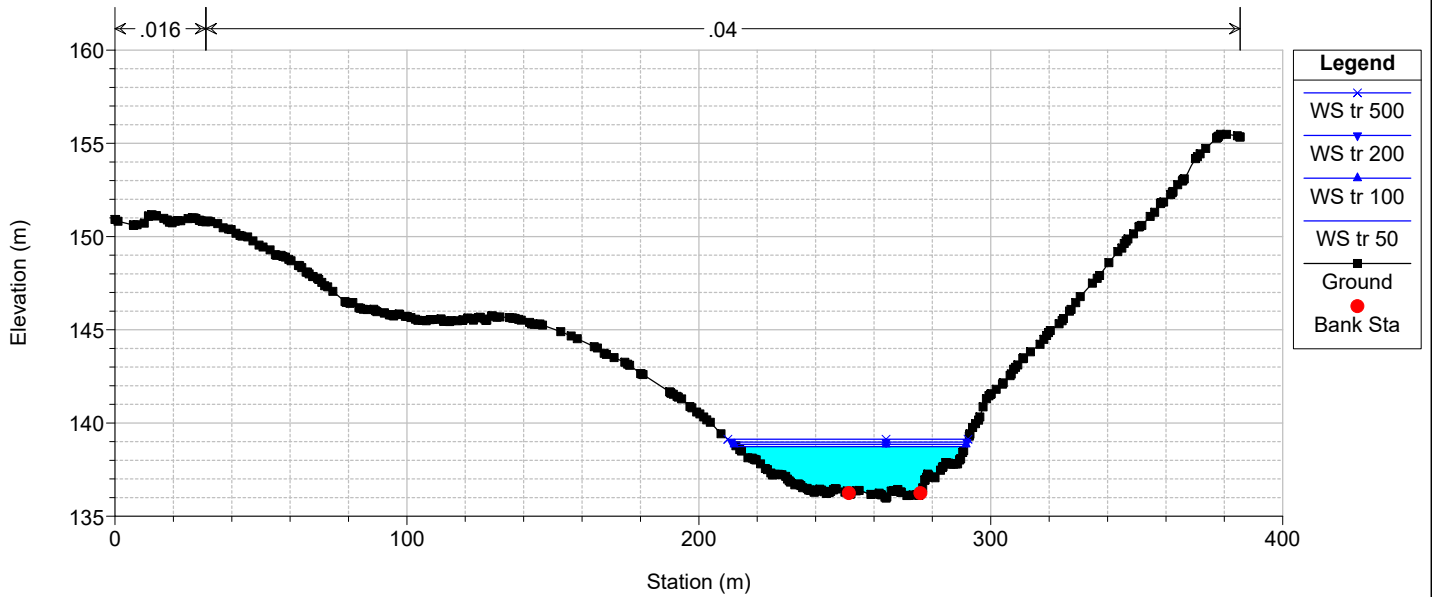
River = Riu Astimini Reach = Asta 1 RS = 5300 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

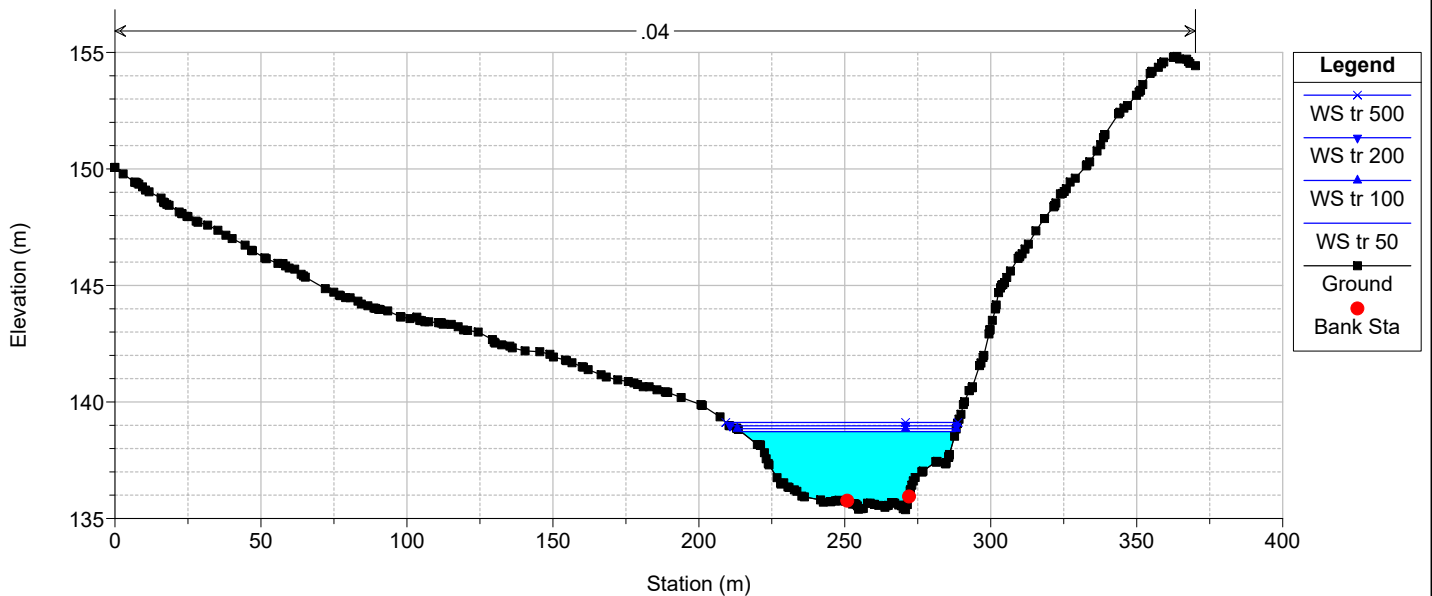
River = Riu Astimini Reach = Asta 1 RS = 5240.008 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

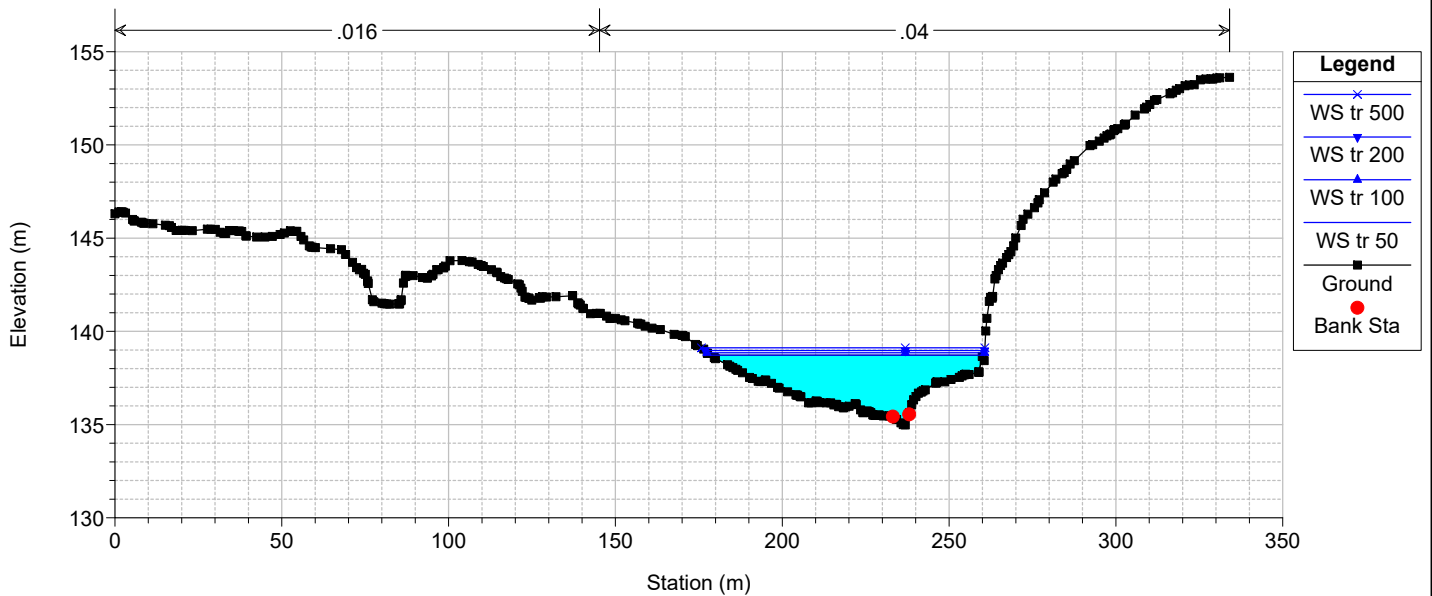
River = Riu Astimini Reach = Asta 1 RS = 5198.837 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

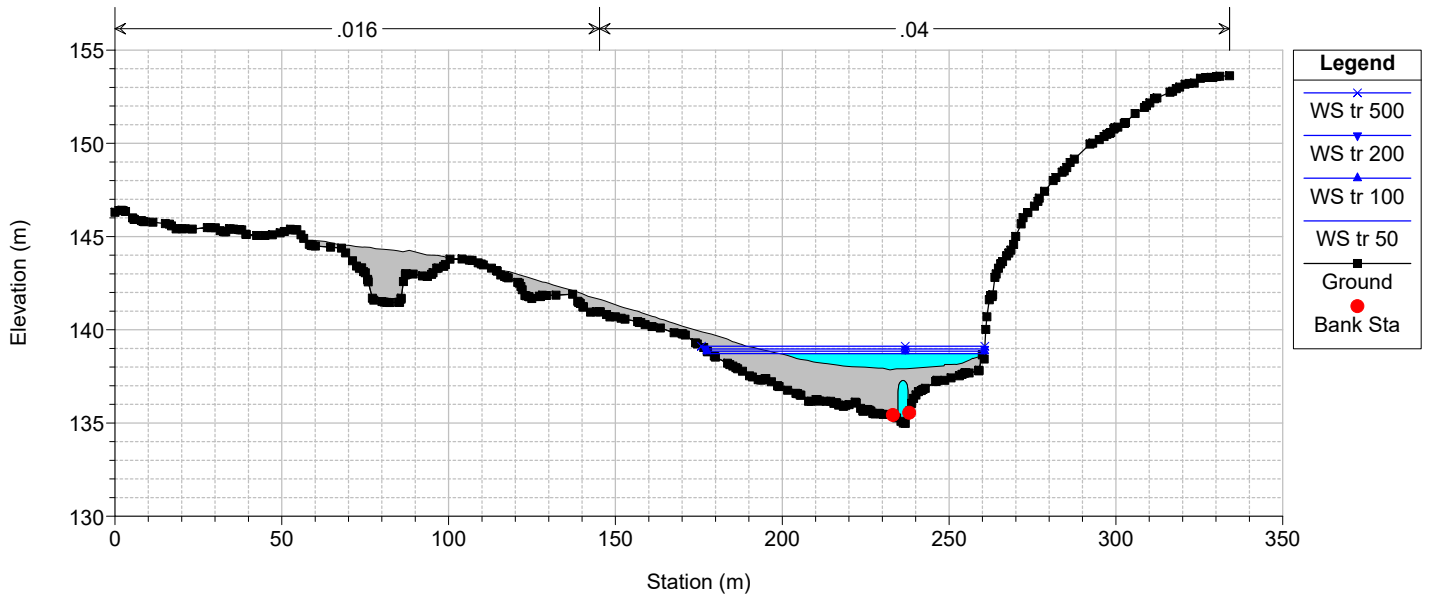
River = Riu Astimini Reach = Asta 1 RS = 5174.26 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

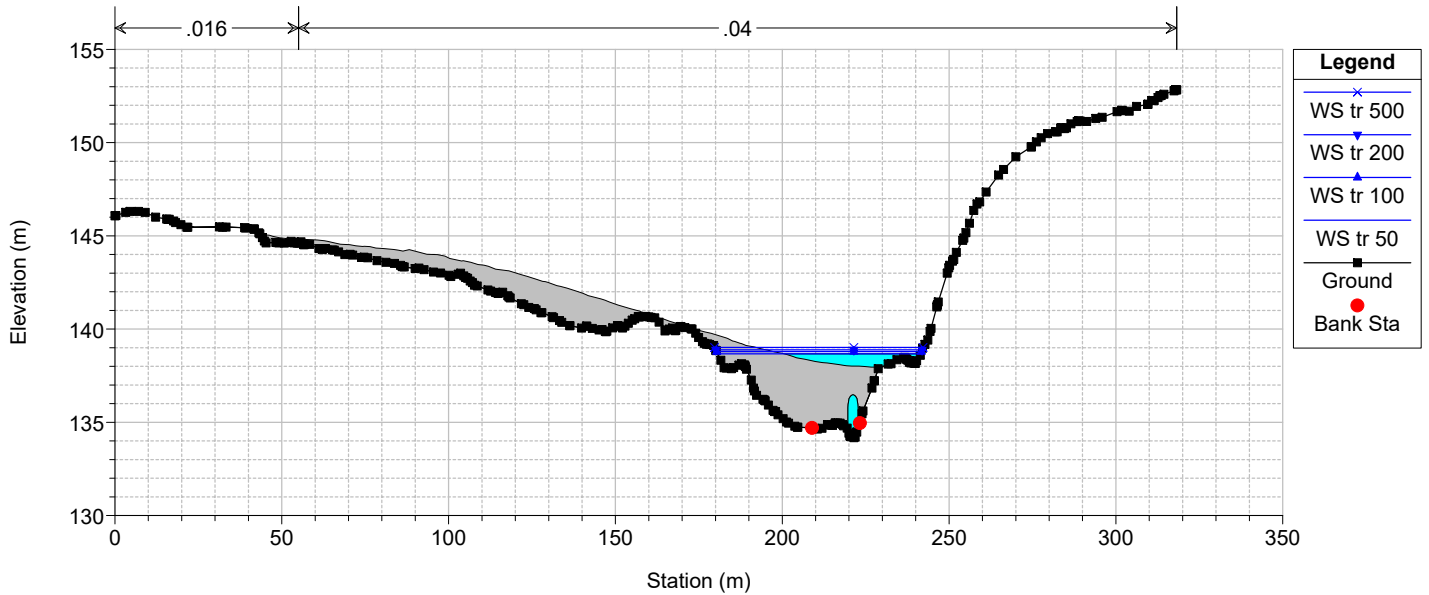
River = Riu Astimini Reach = Asta 1 RS = 5159.743 Culv C63 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

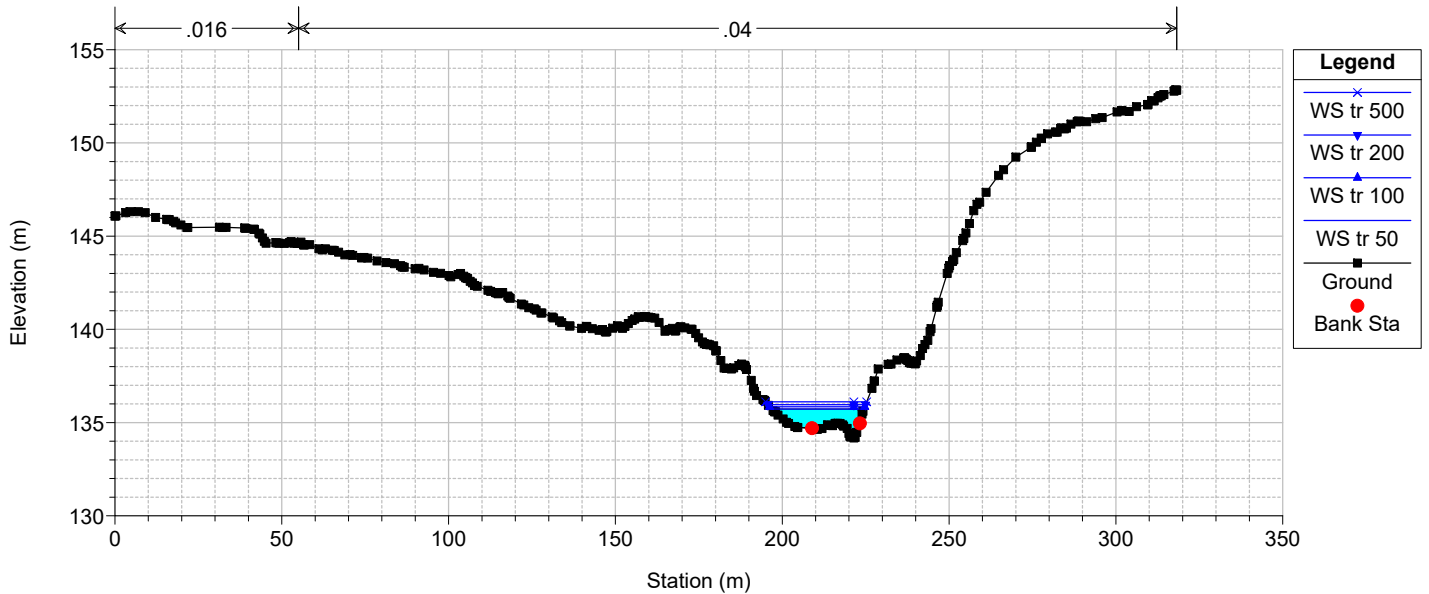
River = Riu Astimini Reach = Asta 1 RS = 5159.743 Culv C63 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

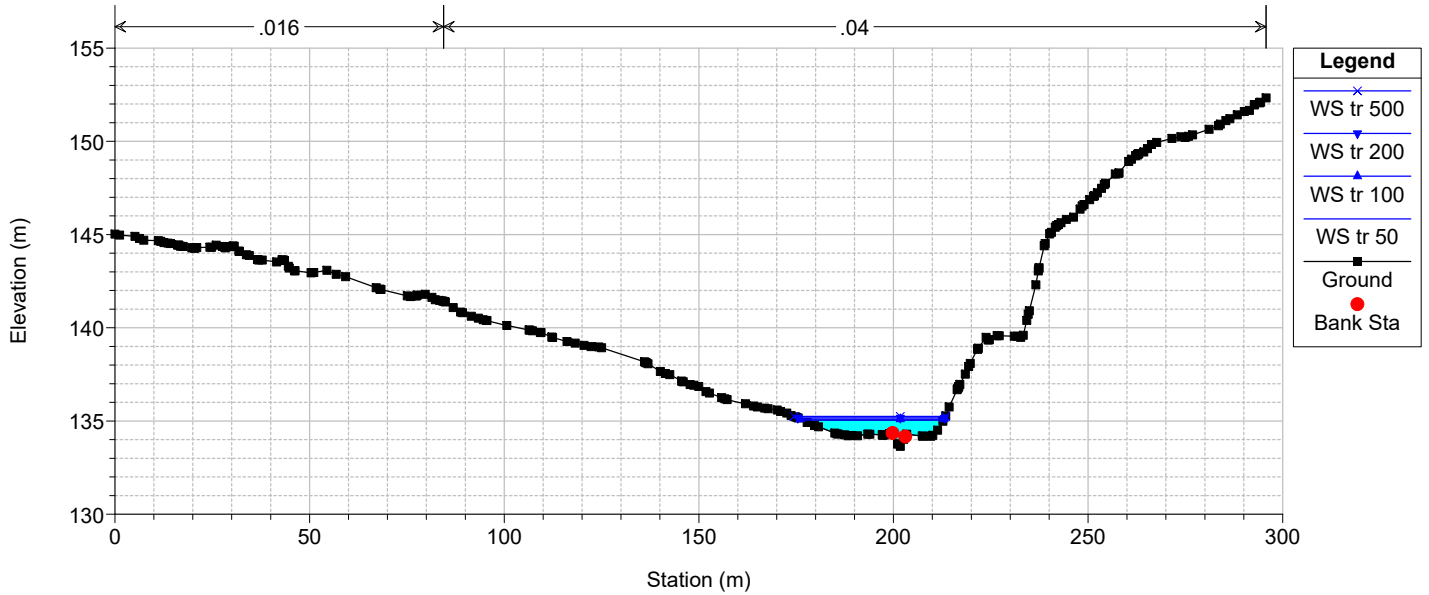
River = Riu Astimini Reach = Asta 1 RS = 5147.997 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

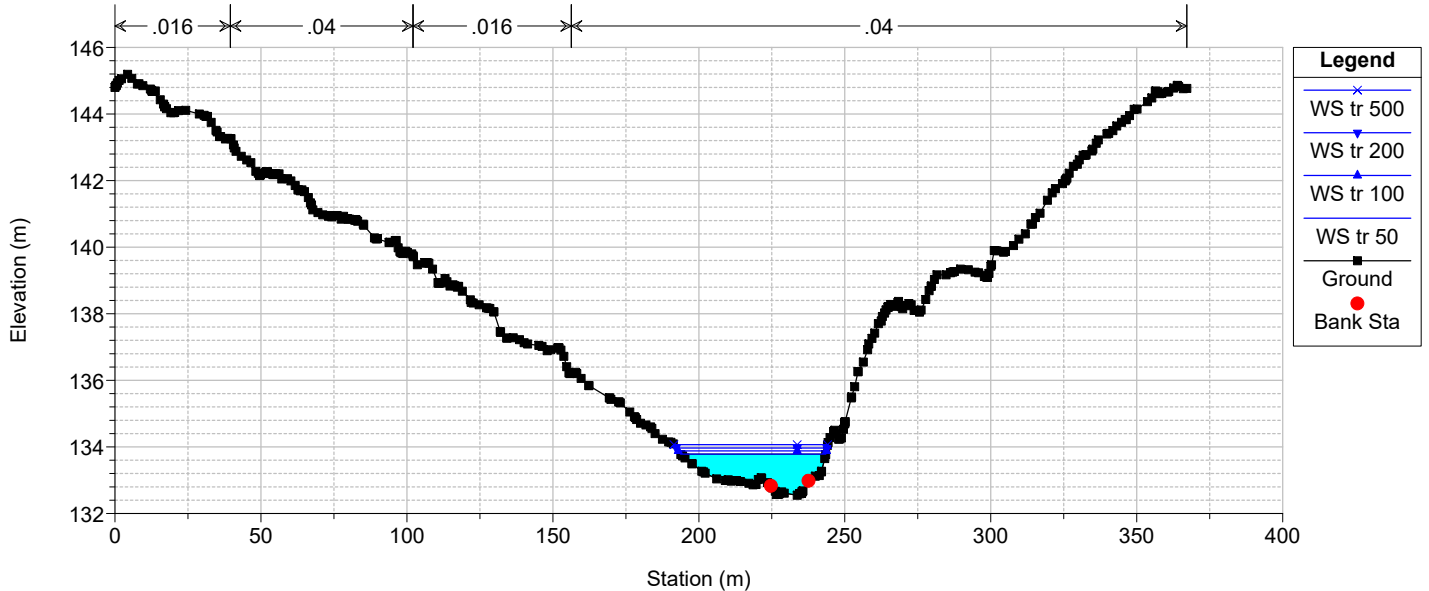
River = Riu Astimini Reach = Asta 1 RS = 5106.909 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

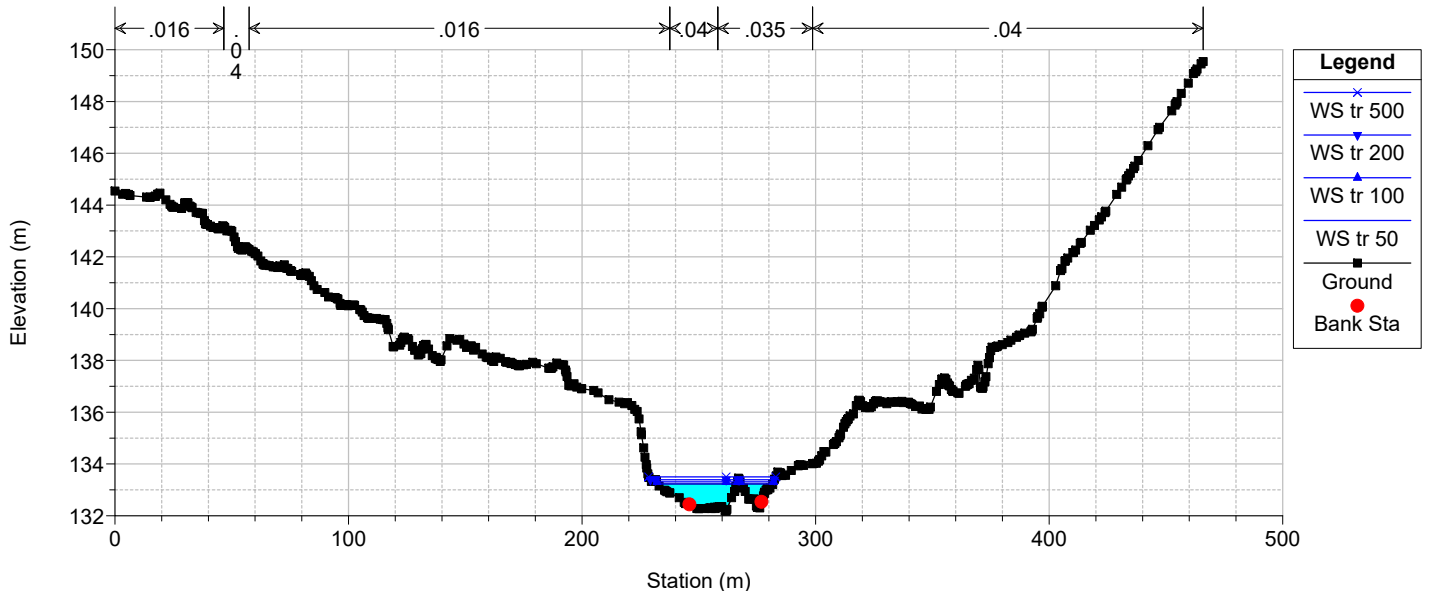
River = Riu Astimini Reach = Asta 1 RS = 5021.271 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

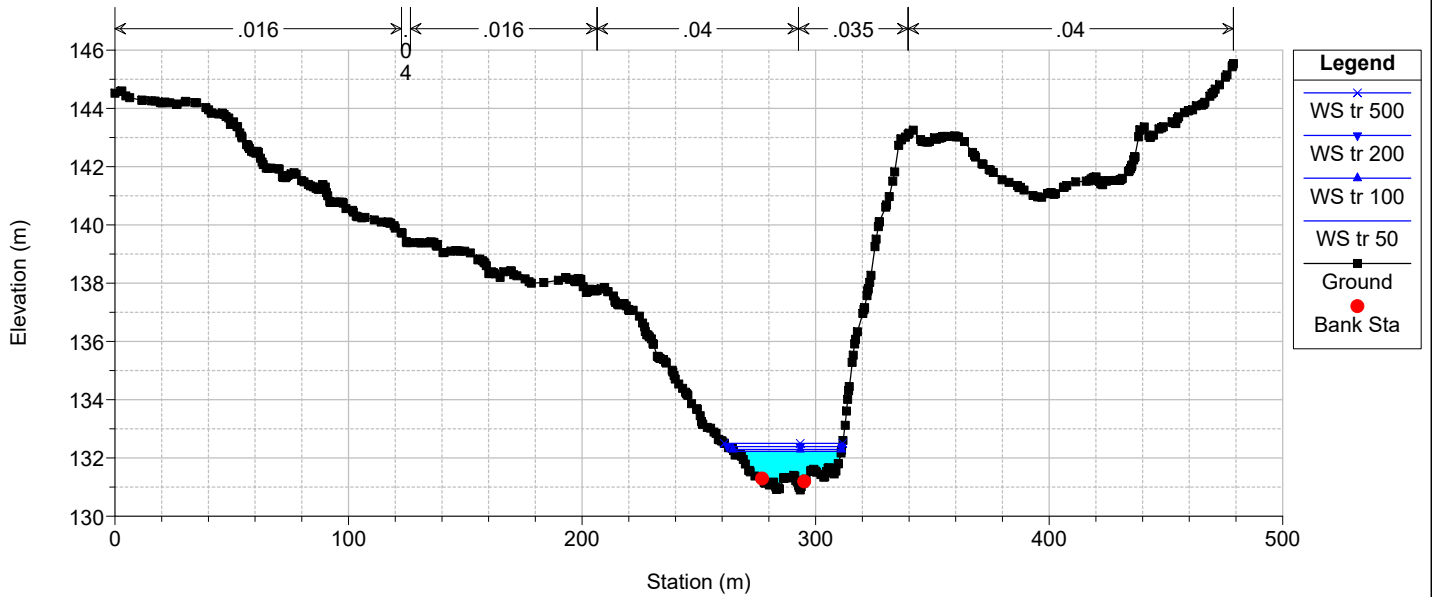
River = Riu Astimini Reach = Asta 1 RS = 4973.725 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

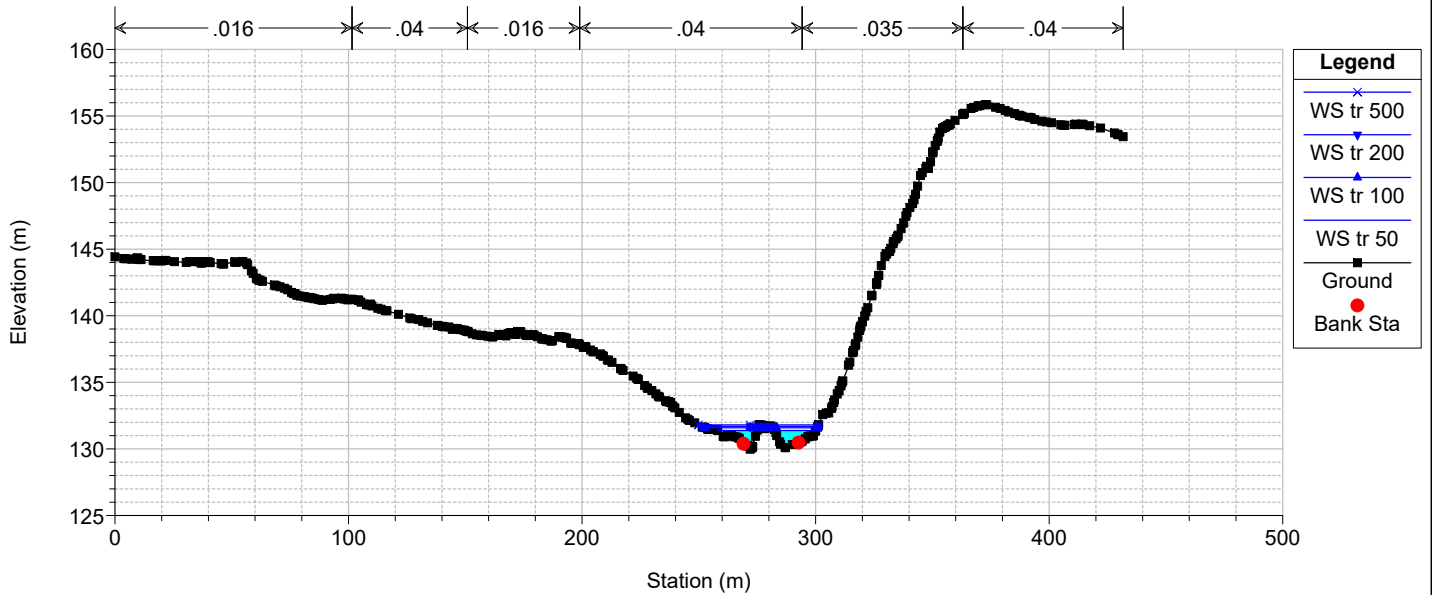
River = Riu Astimini Reach = Asta 1 RS = 4903.506 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

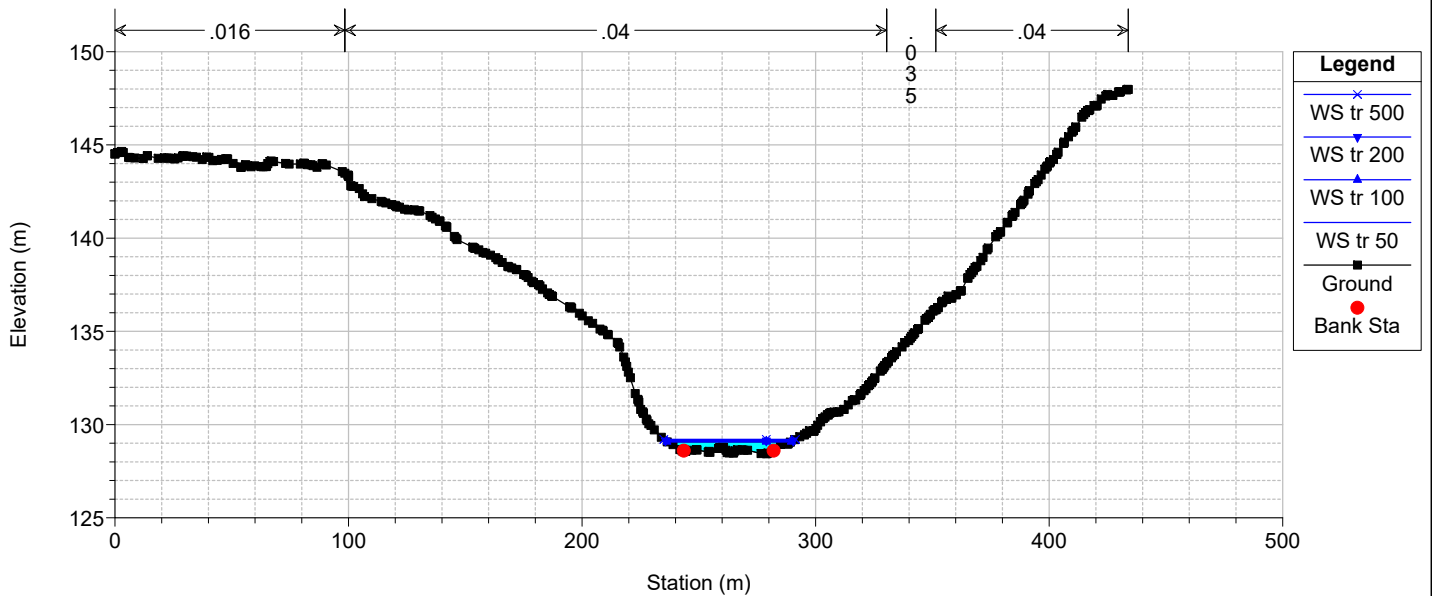
River = Riu Astimini Reach = Asta 1 RS = 4845.499 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

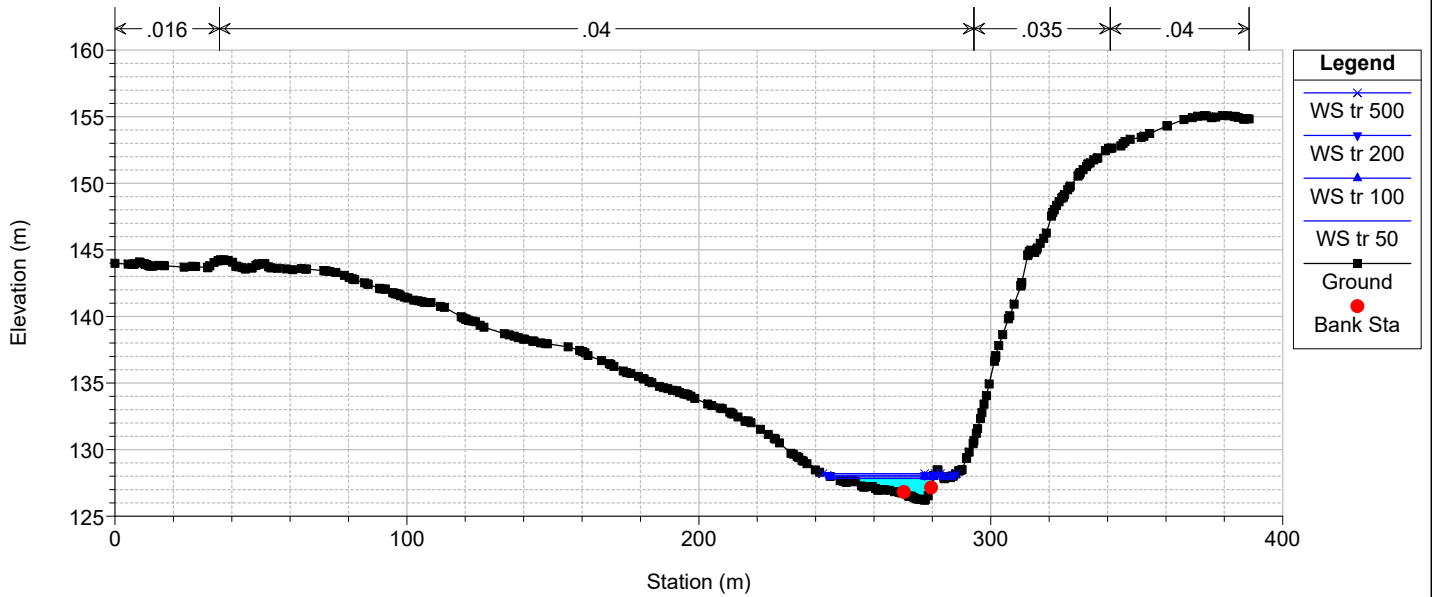
River = Riu Astimini Reach = Asta 1 RS = 4761.953 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

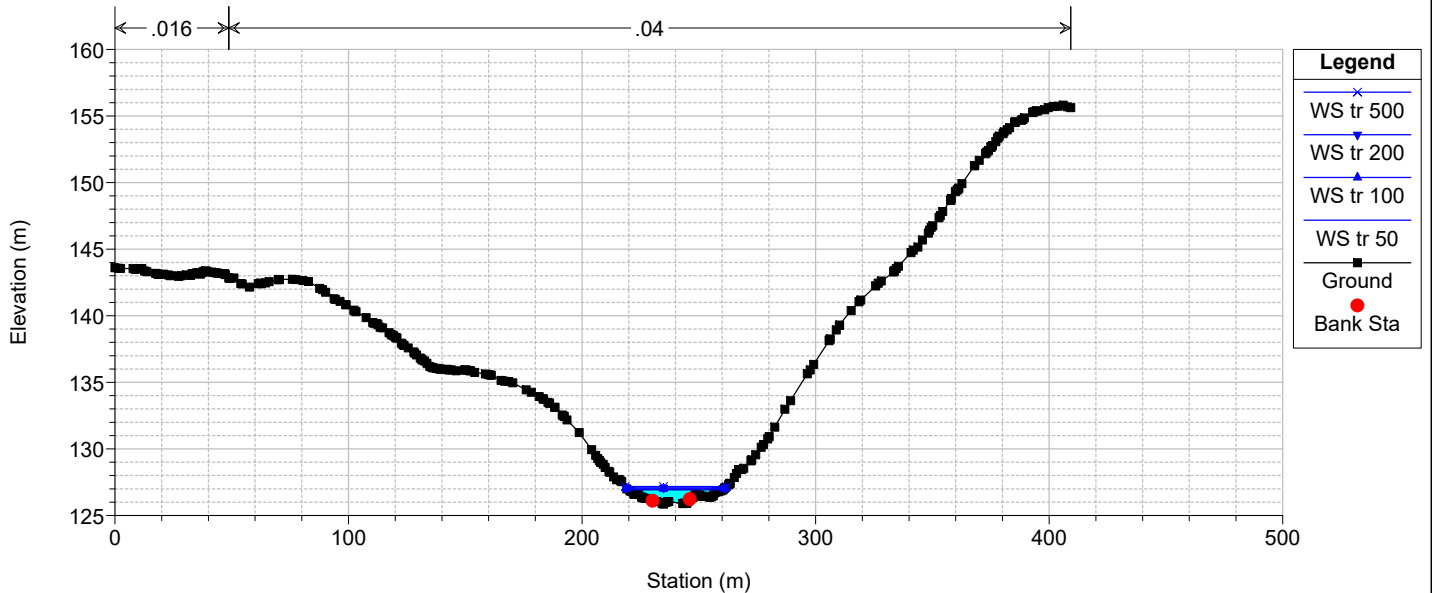
River = Riu Astimini Reach = Asta 1 RS = 4685.149 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

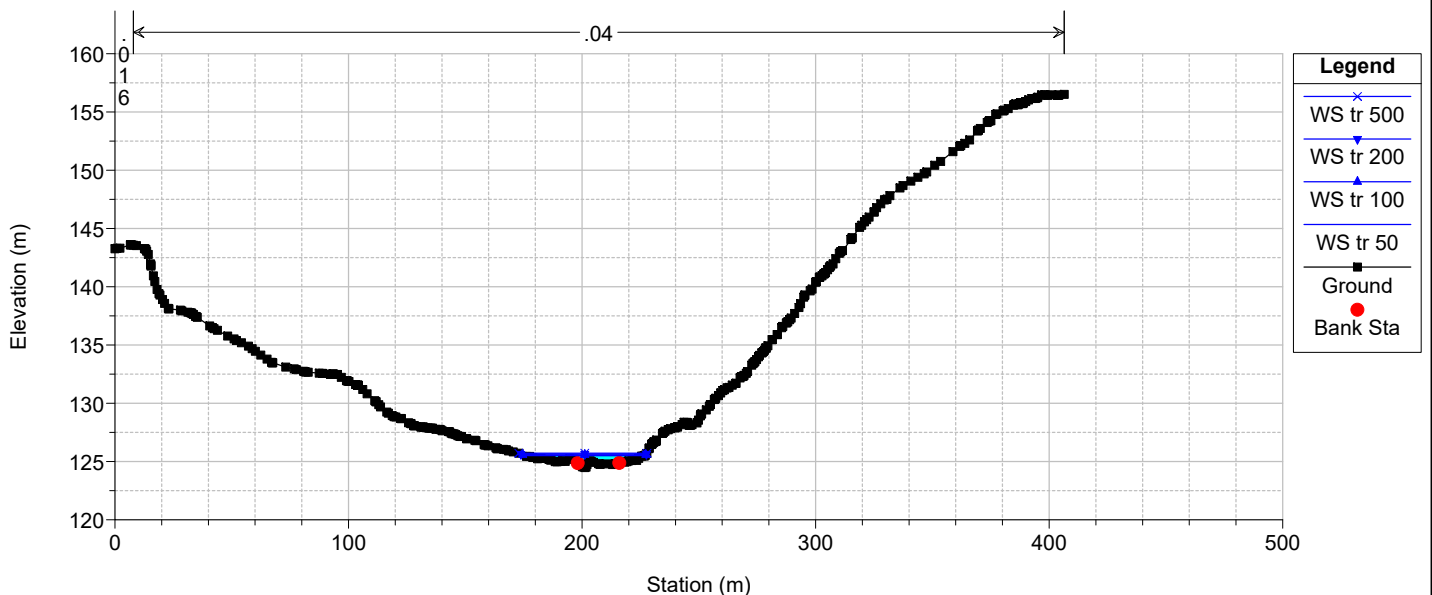
River = Riu Astimini Reach = Asta 1 RS = 4623.226 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

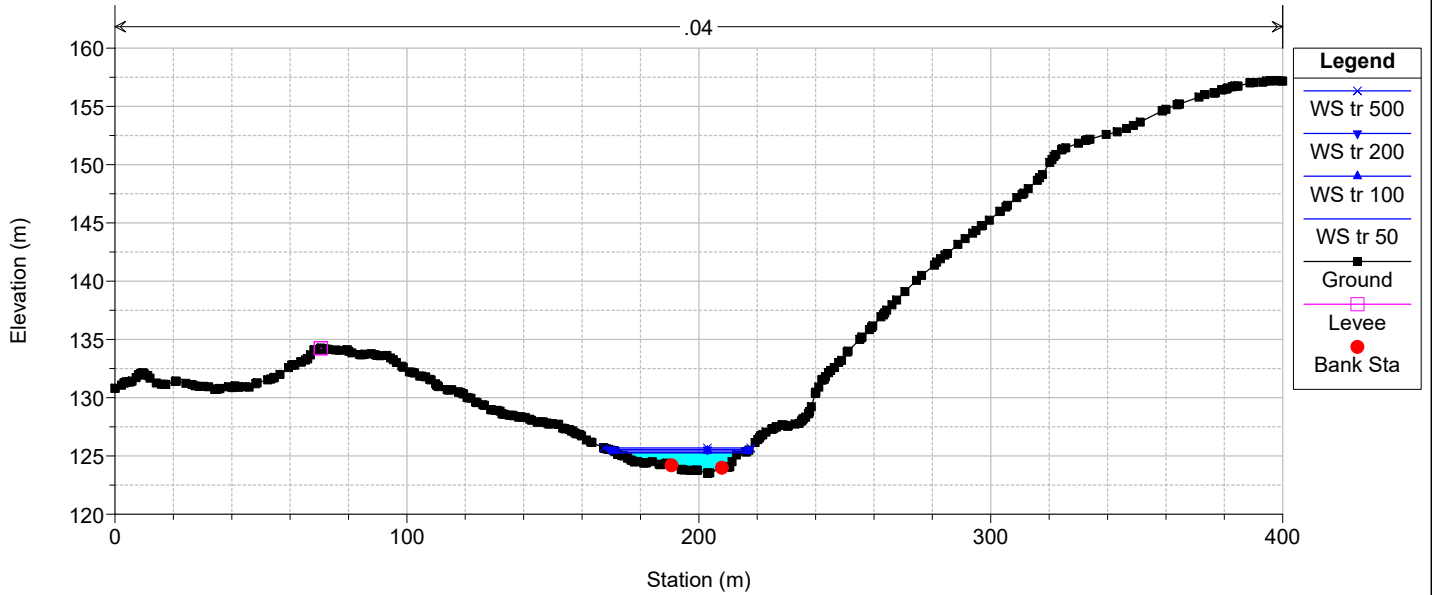
River = Riu Astimini Reach = Asta 1 RS = 4562.217 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

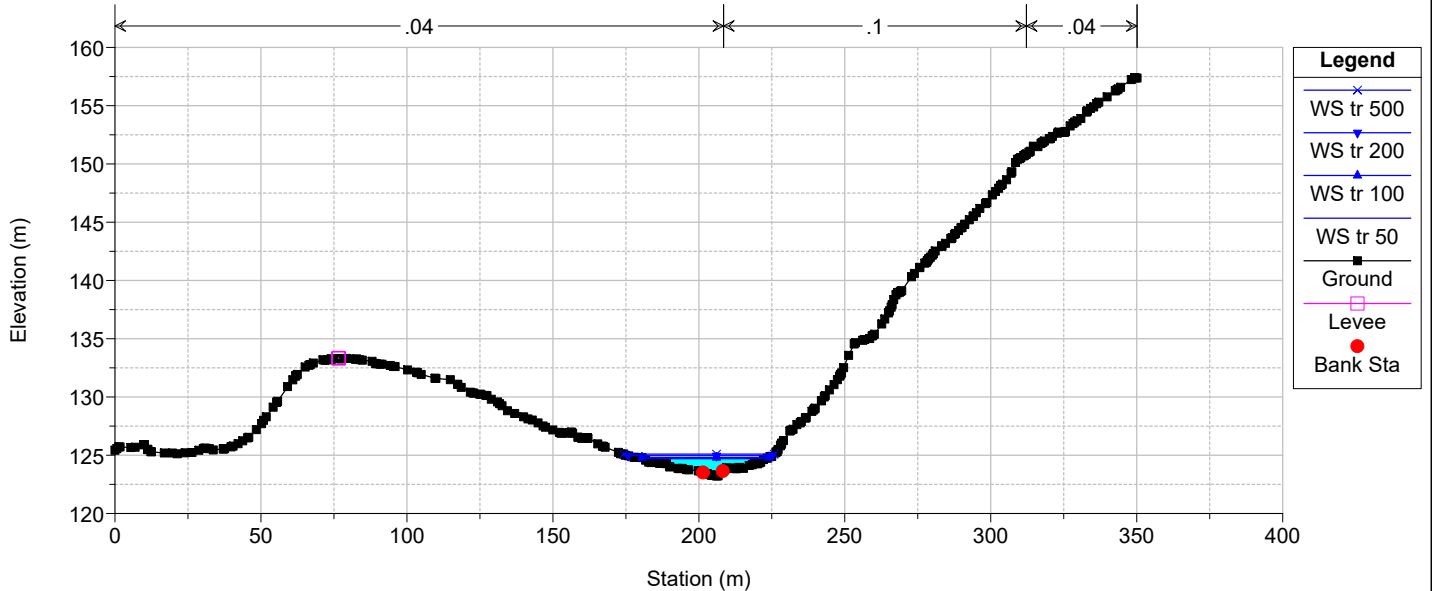
River = Riu Astimini Reach = Asta 1 RS = 4500 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

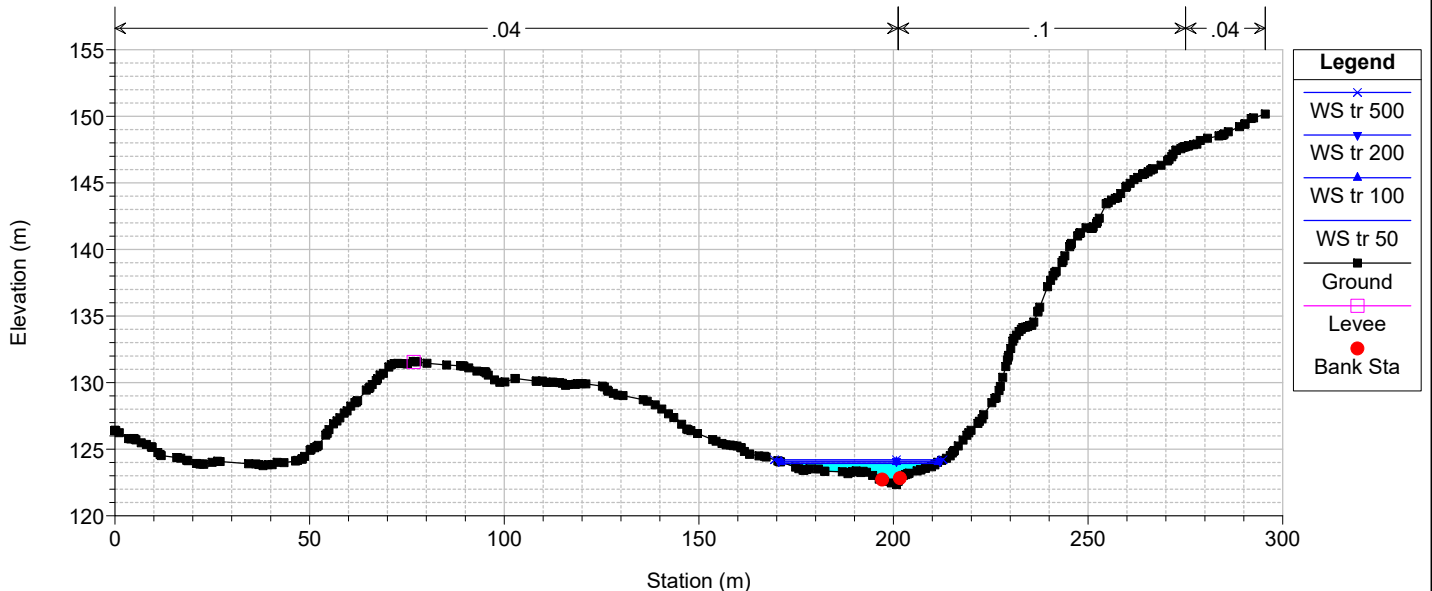
River = Riu Astimini Reach = Asta 1 RS = 4445.619 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

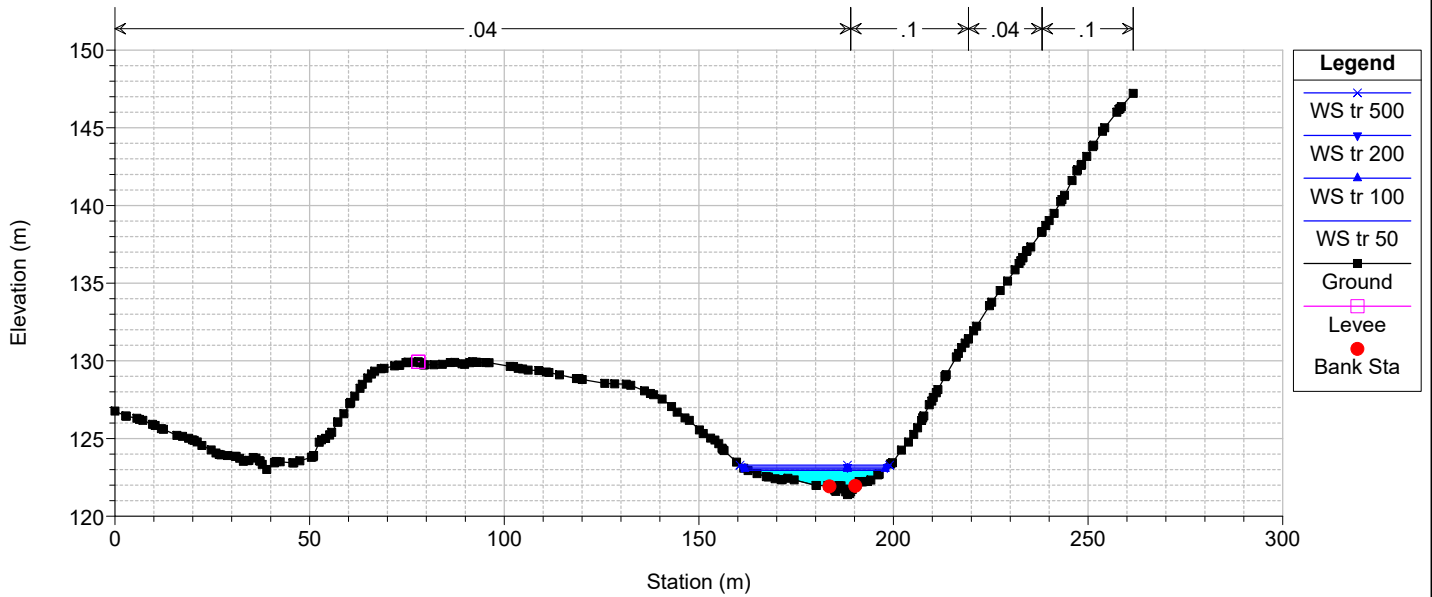
River = Riu Astimini Reach = Asta 1 RS = 4407.023 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

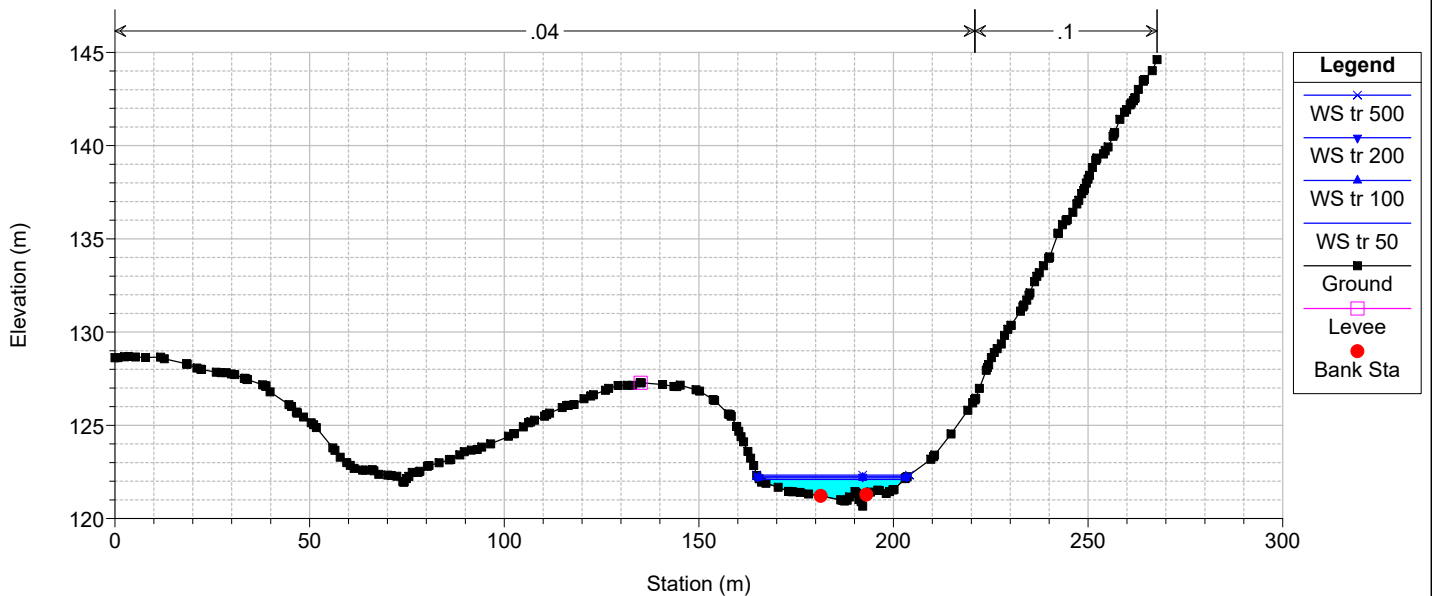
River = Riu Astimini Reach = Asta 1 RS = 4366.309 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

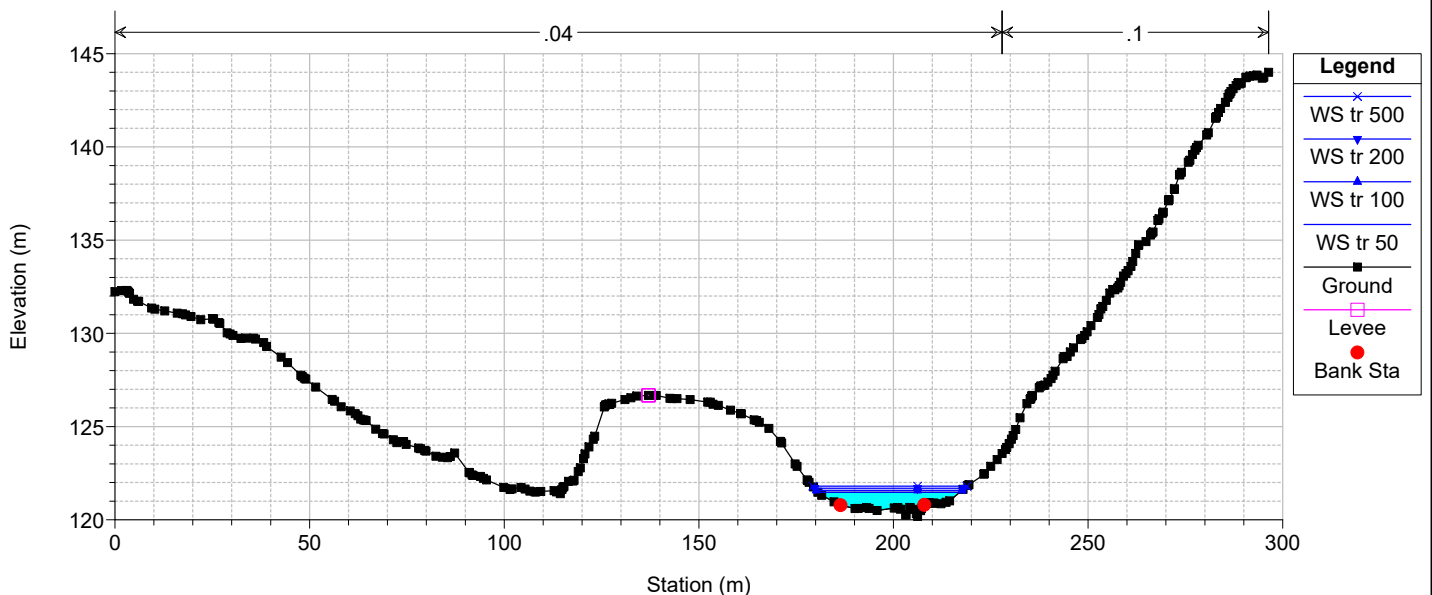
River = Riu Astimini Reach = Asta 1 RS = 4322.32 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

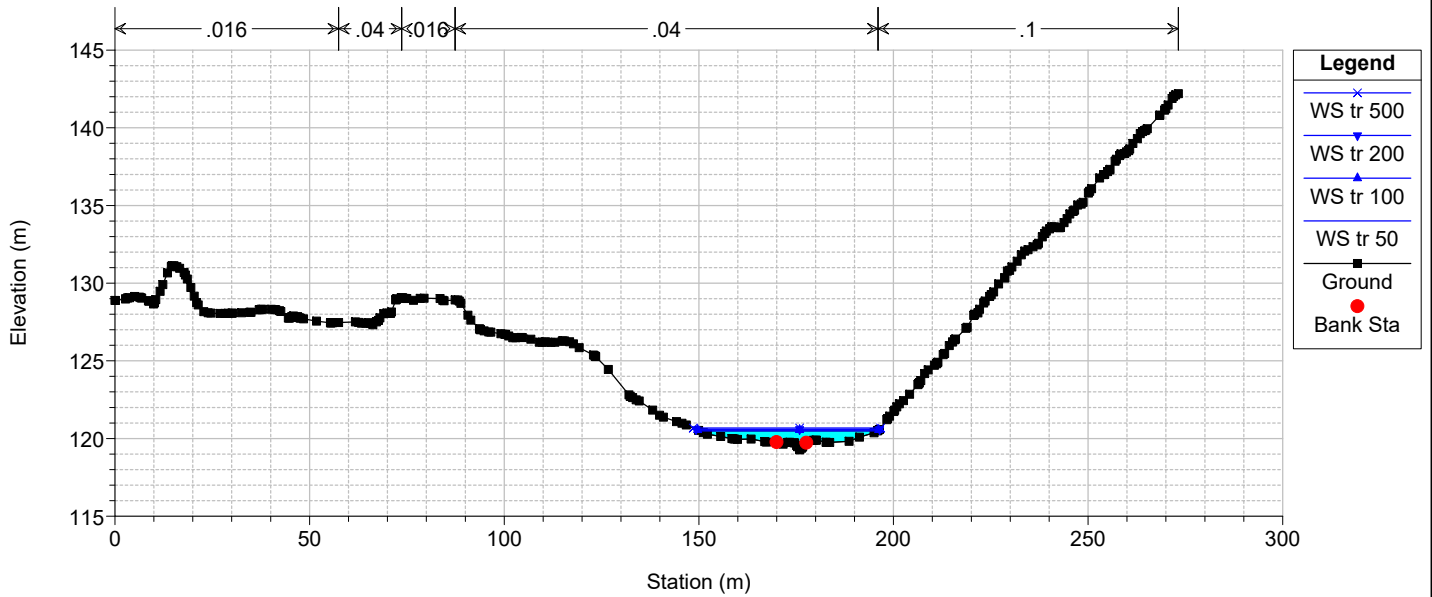
River = Riu Astimini Reach = Asta 1 RS = 4284.592 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

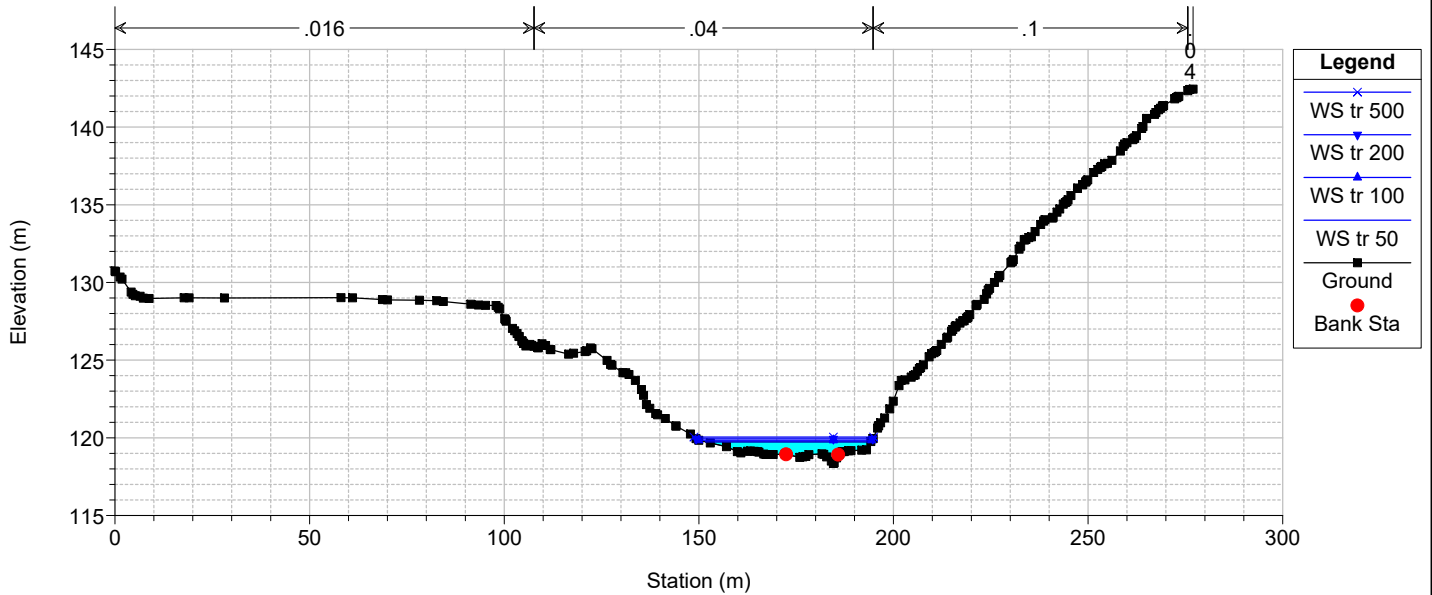
River = Riu Astimini Reach = Asta 1 RS = 4231.96 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

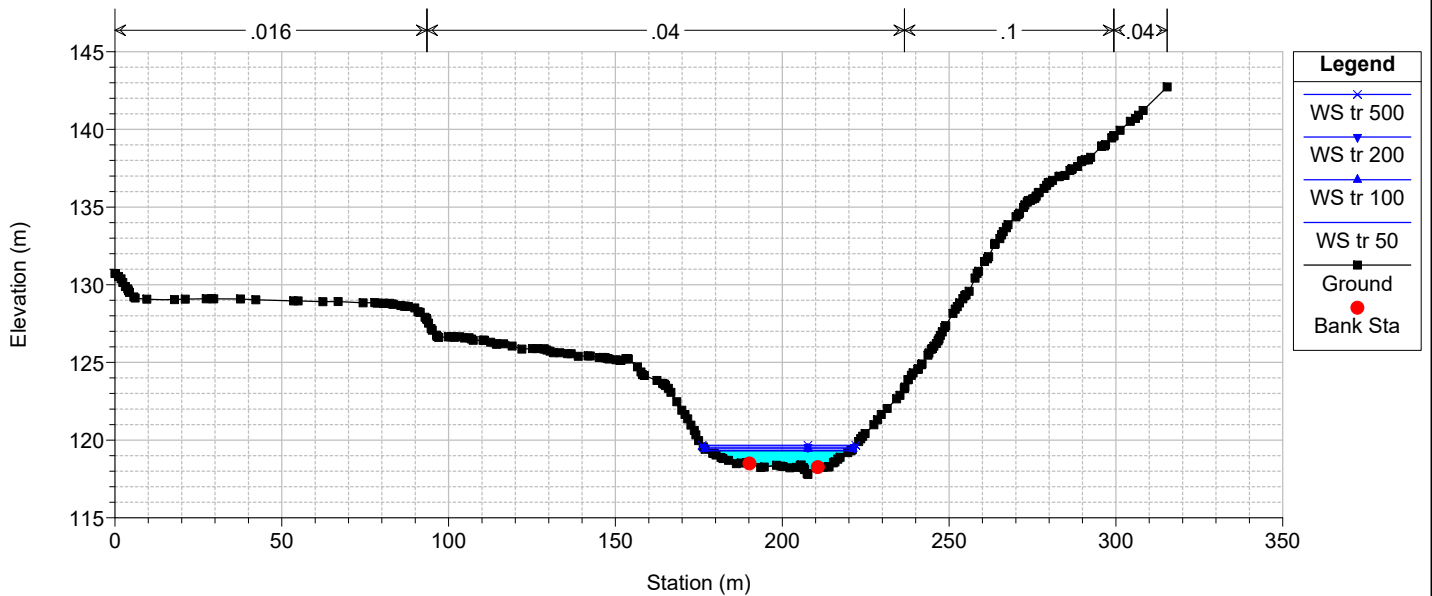
River = Riu Astimini Reach = Asta 1 RS = 4179.24 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

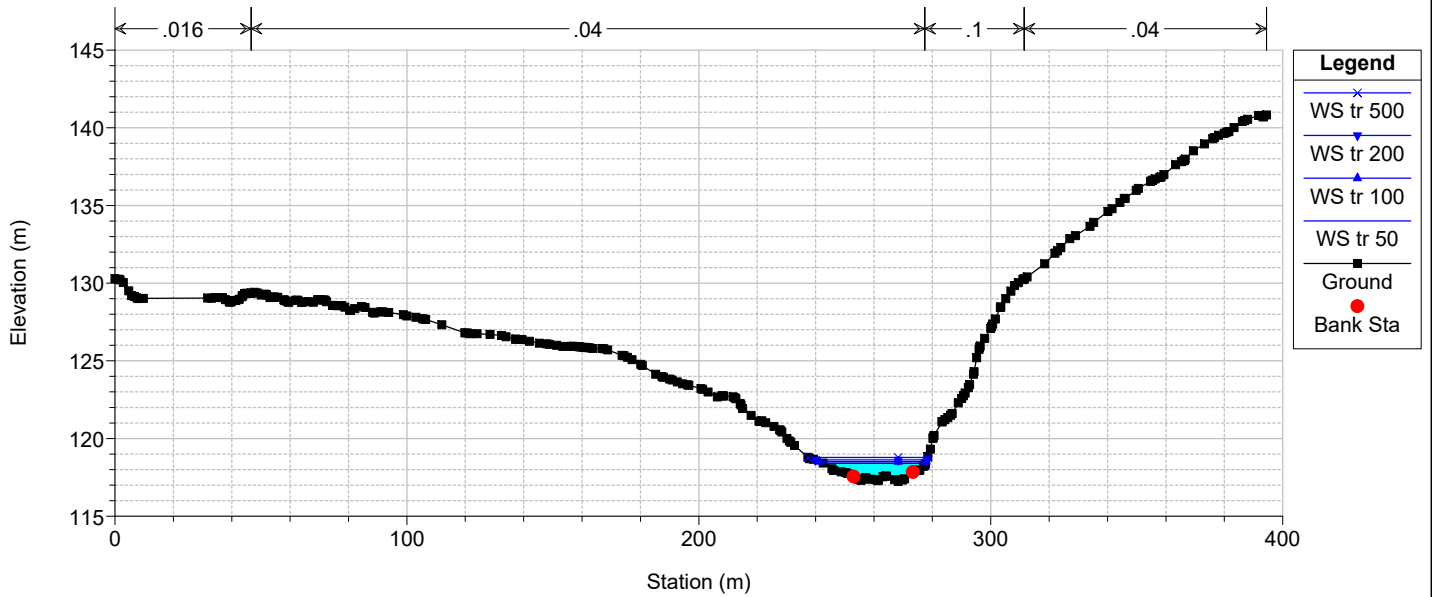
River = Riu Astimini Reach = Asta 1 RS = 4128.27 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

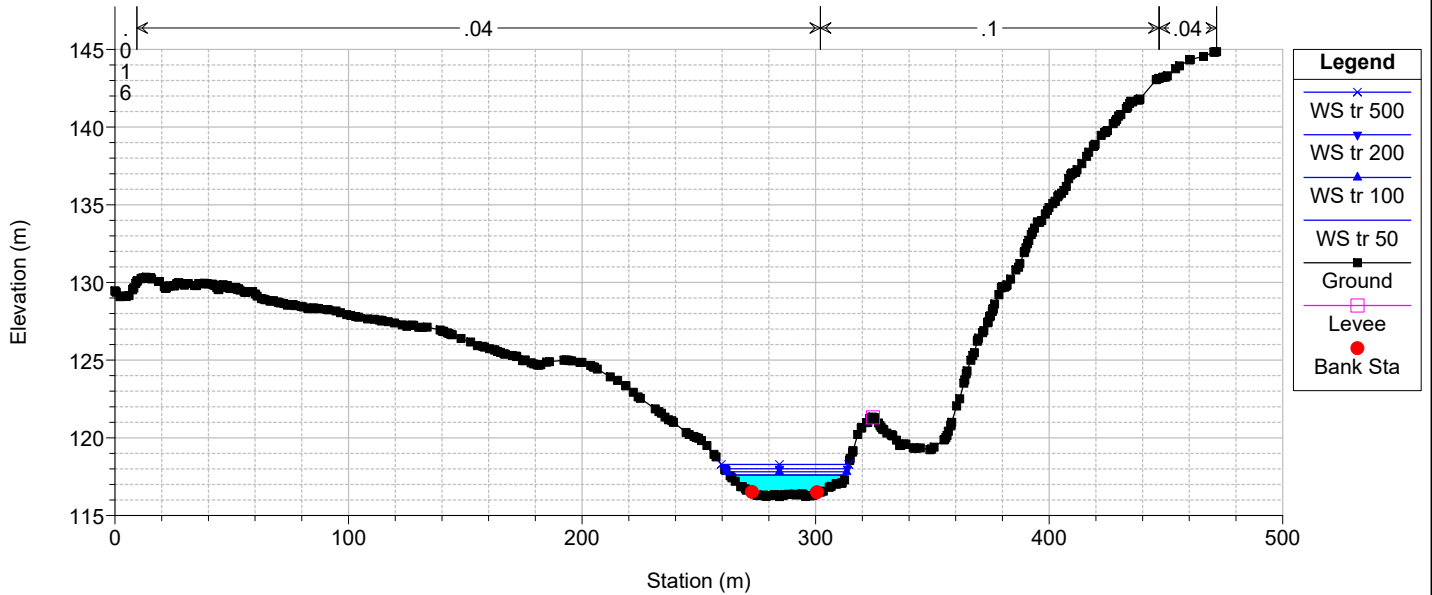
River = Riu Astimini Reach = Asta 1 RS = 4053.153 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

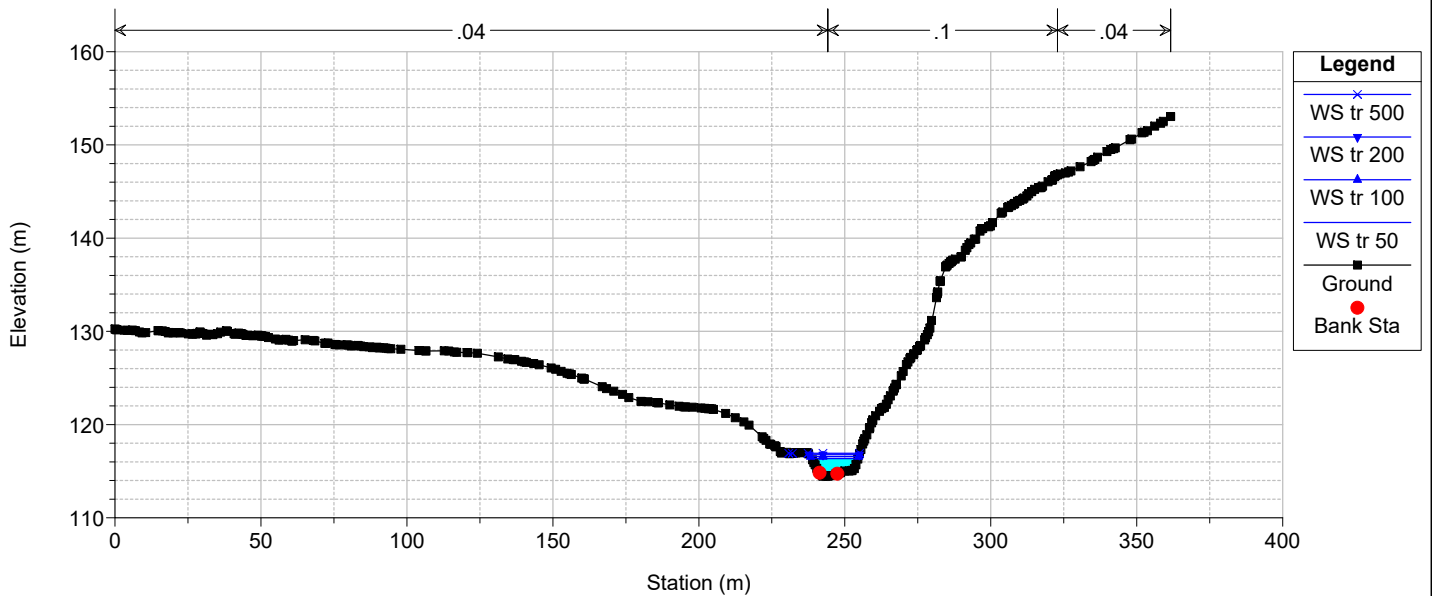
River = Riu Astimini Reach = Asta 1 RS = 3940.197 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

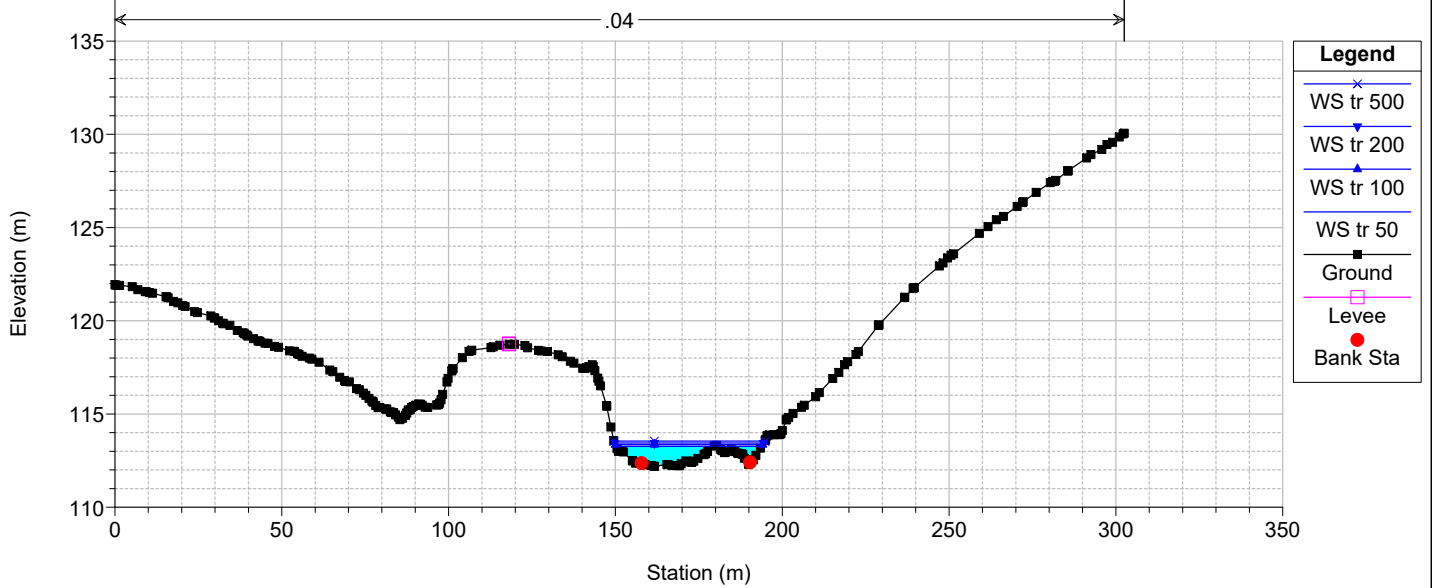
River = Riu Astimini Reach = Asta 1 RS = 3845.076 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

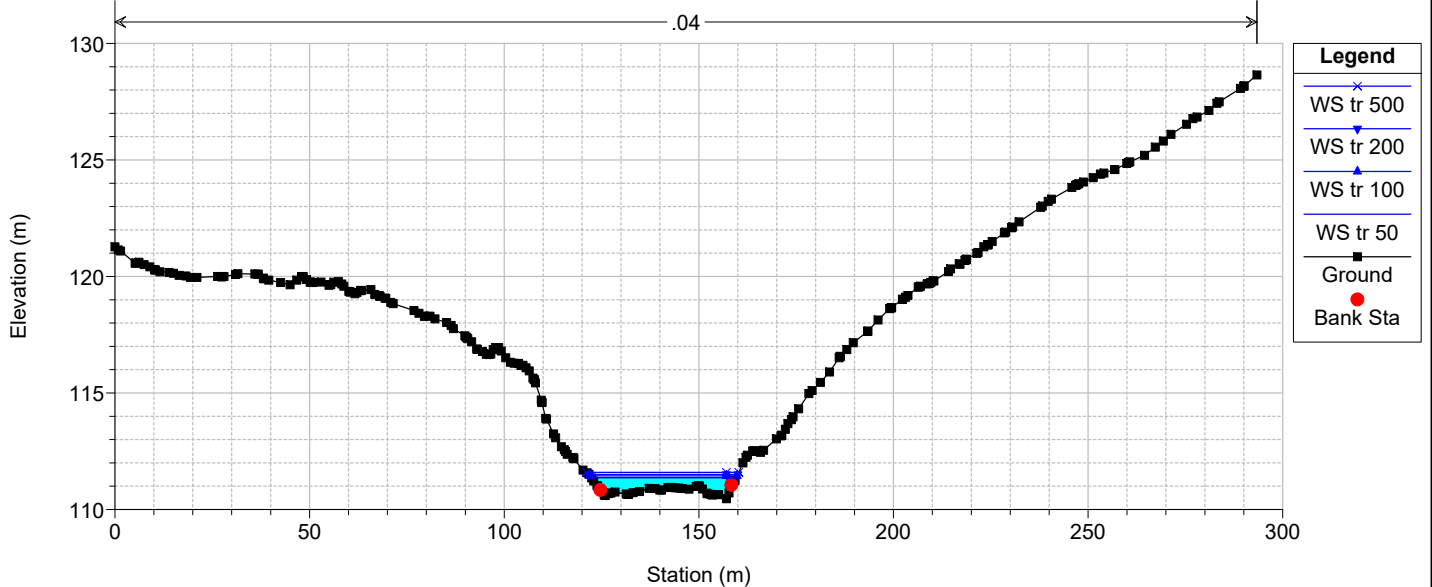
River = Riu Astimini Reach = Asta 1 RS = 3590.35 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

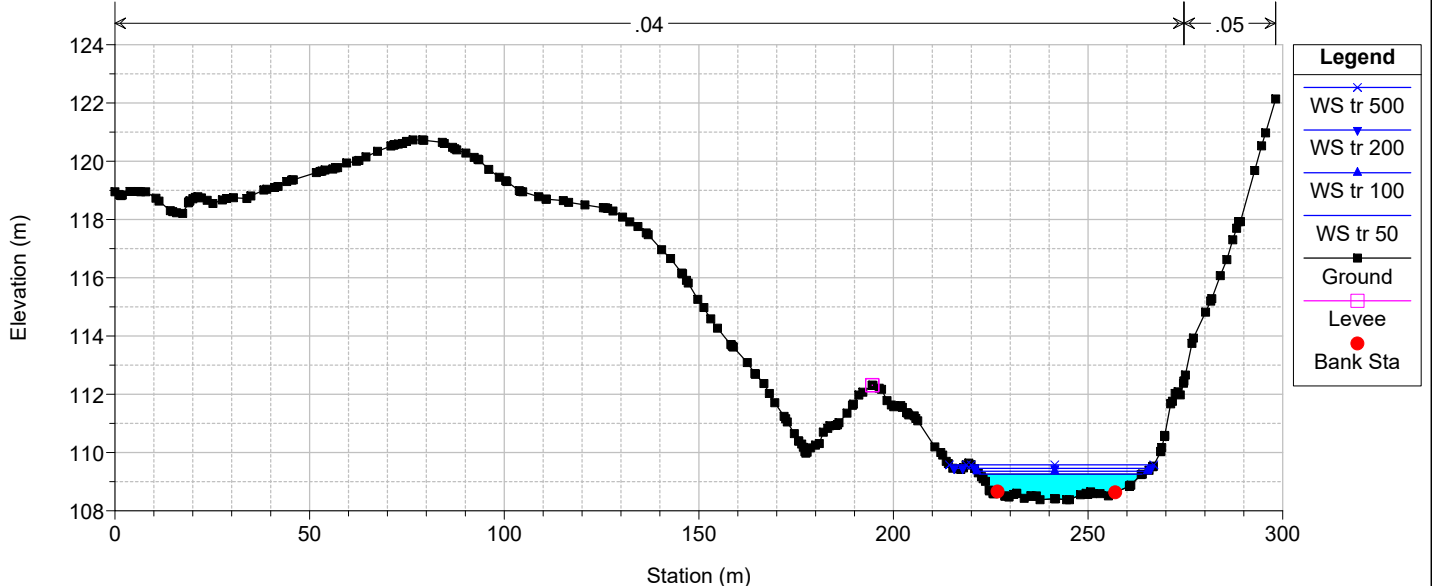
River = Riu Astimini Reach = Asta 1 RS = 3527.644 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

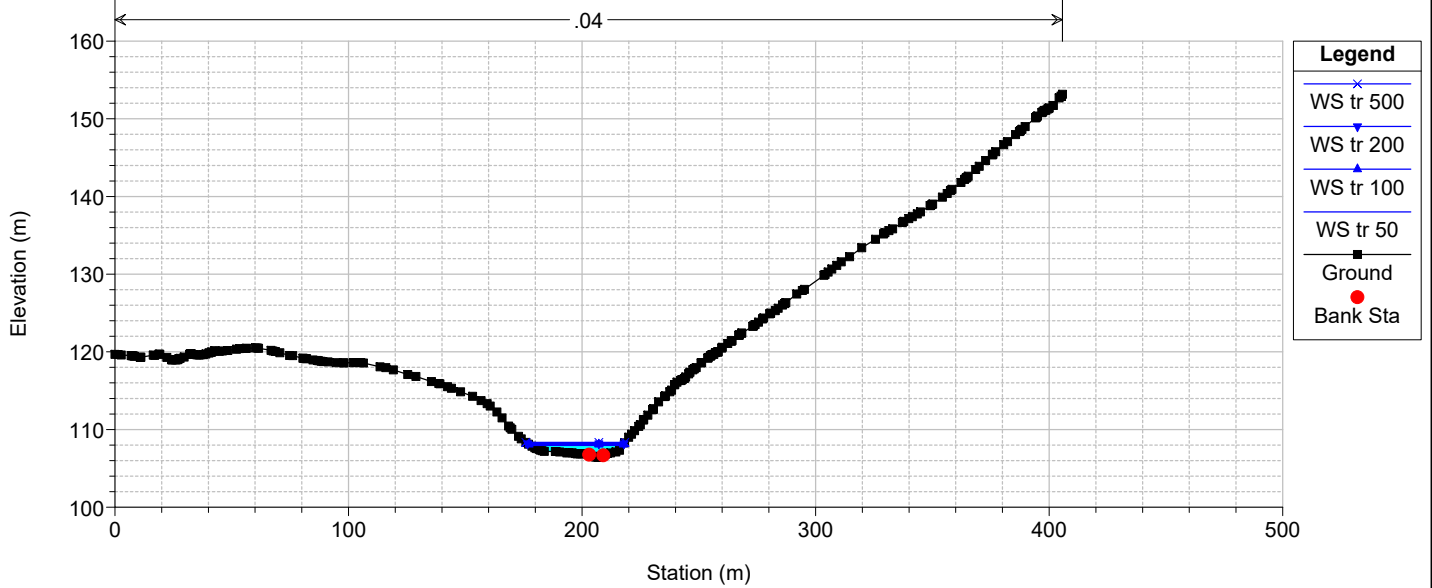
River = Riu Astimini Reach = Asta 1 RS = 3372.196 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

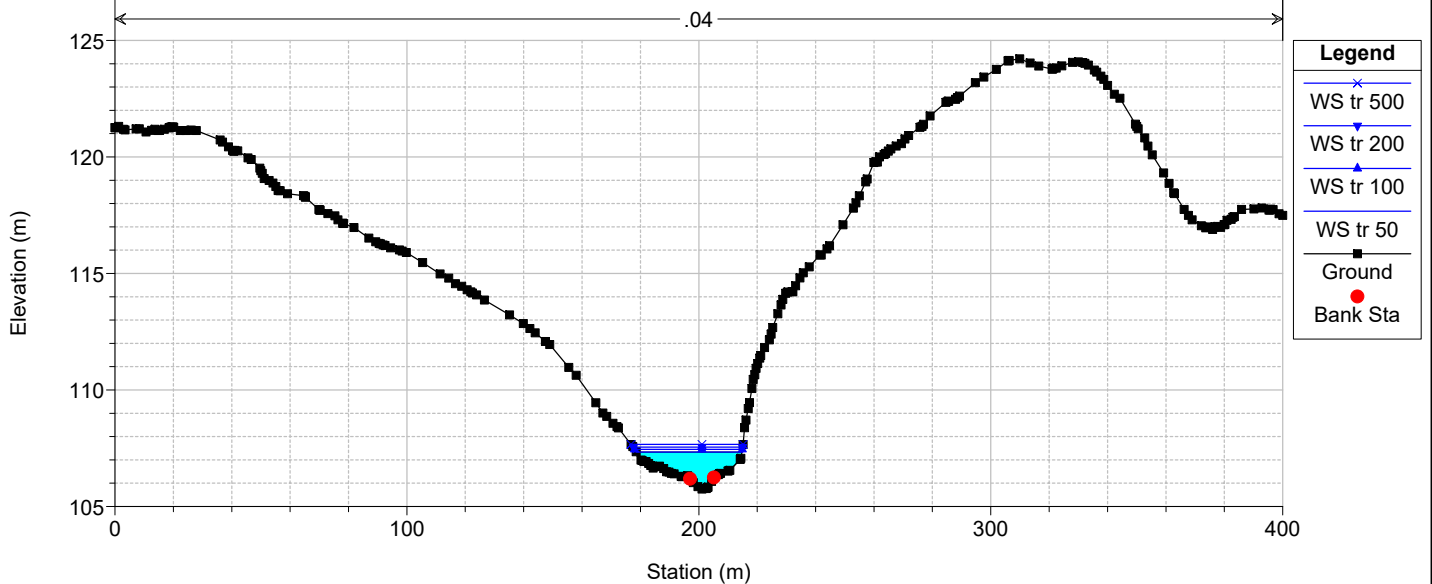
River = Riu Astimini Reach = Asta 1 RS = 3276.358 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

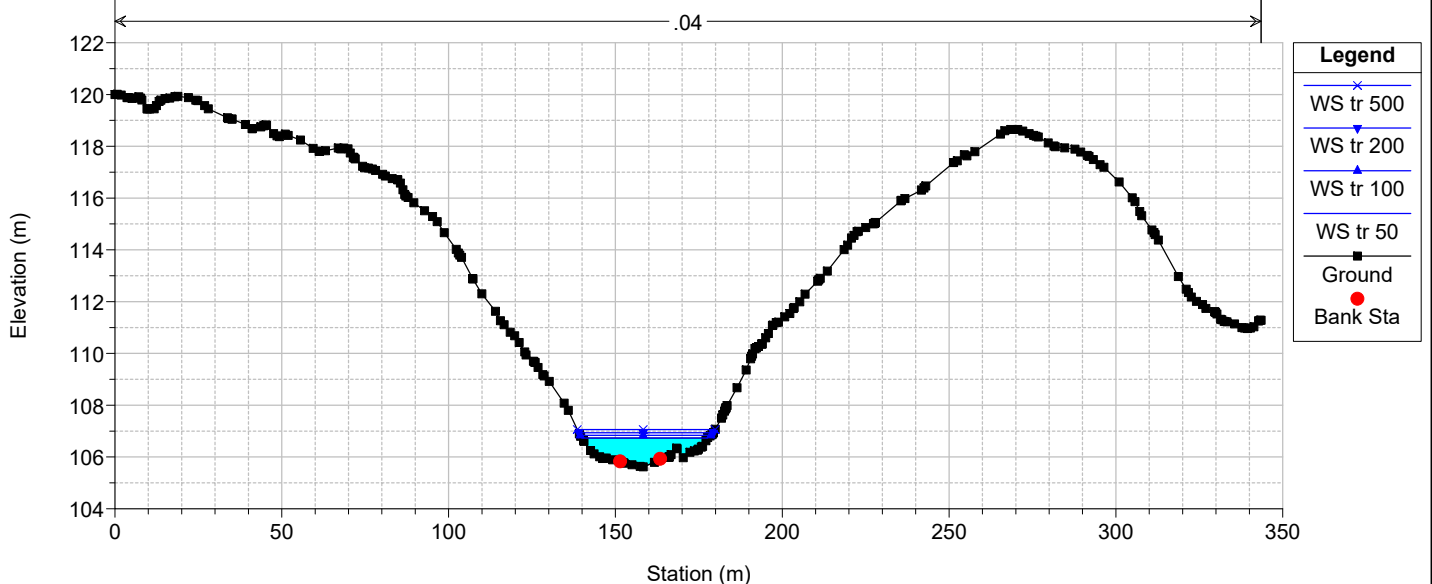
River = Riu Astimini Reach = Asta 1 RS = 3200 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

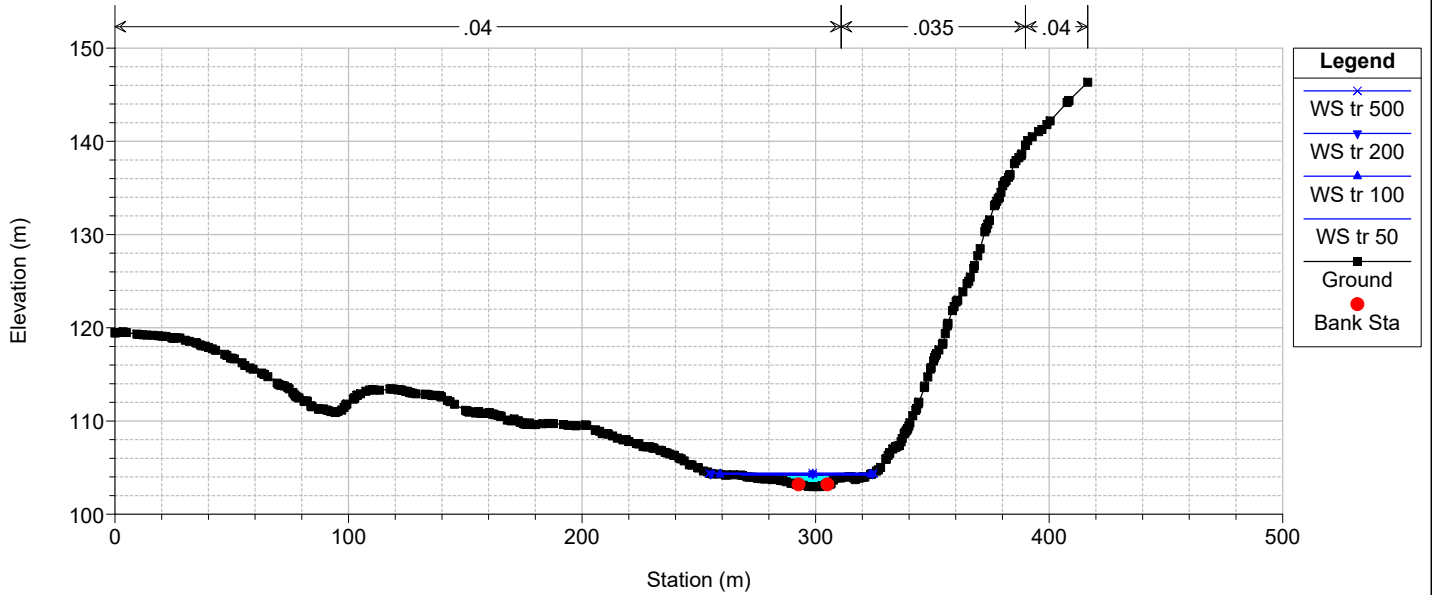
River = Riu Astimini Reach = Asta 1 RS = 3151.31 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

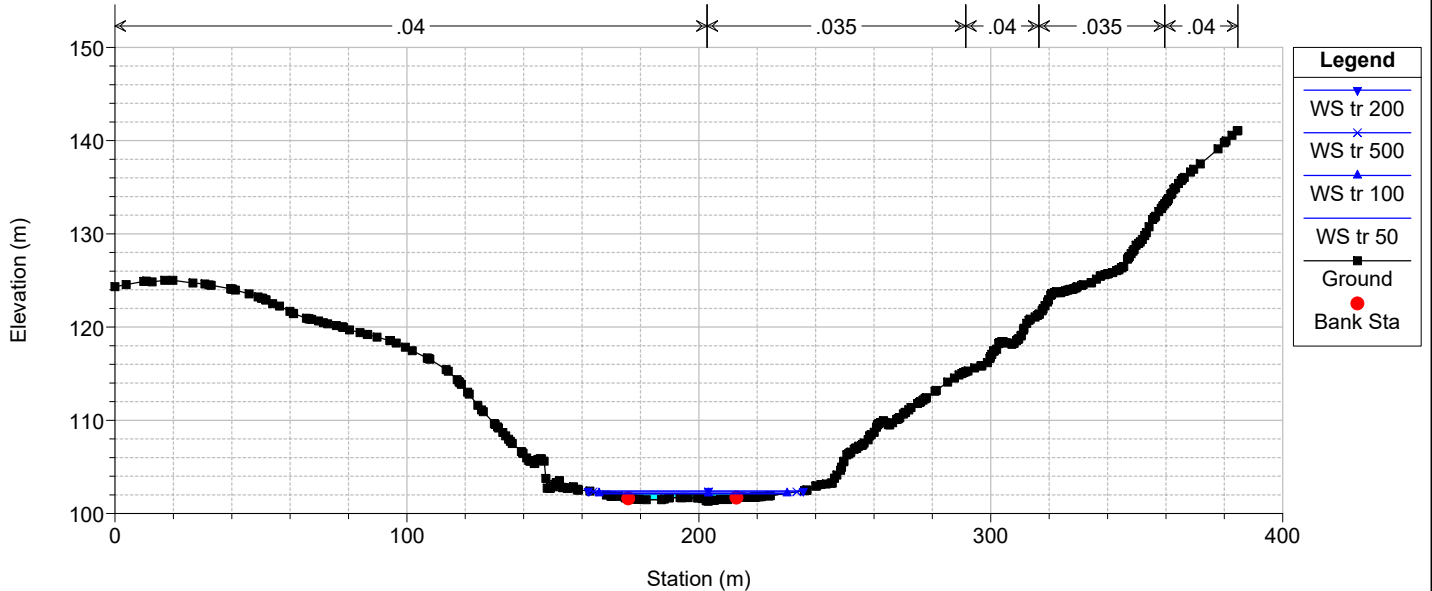
River = Riu Astimini Reach = Asta 1 RS = 2947.022 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

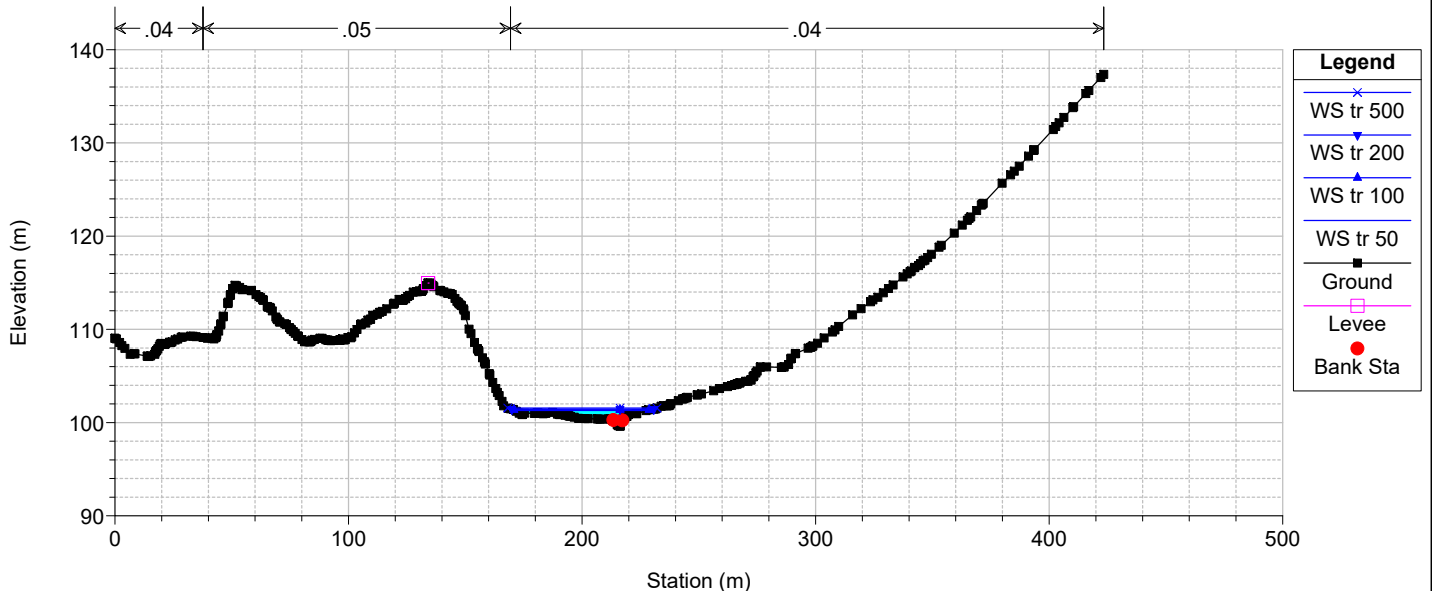
River = Riu Astimini Reach = Asta 1 RS = 2821.32 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

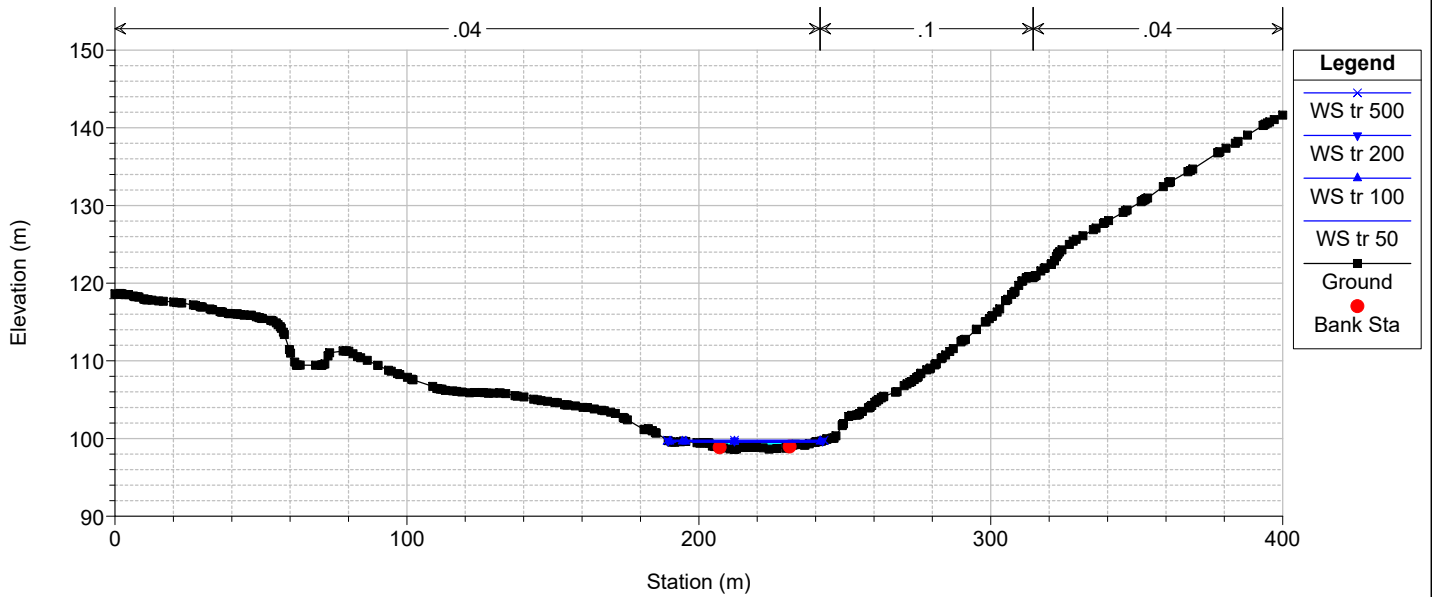
River = Riu Astimini Reach = Asta 1 RS = 2742.115 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

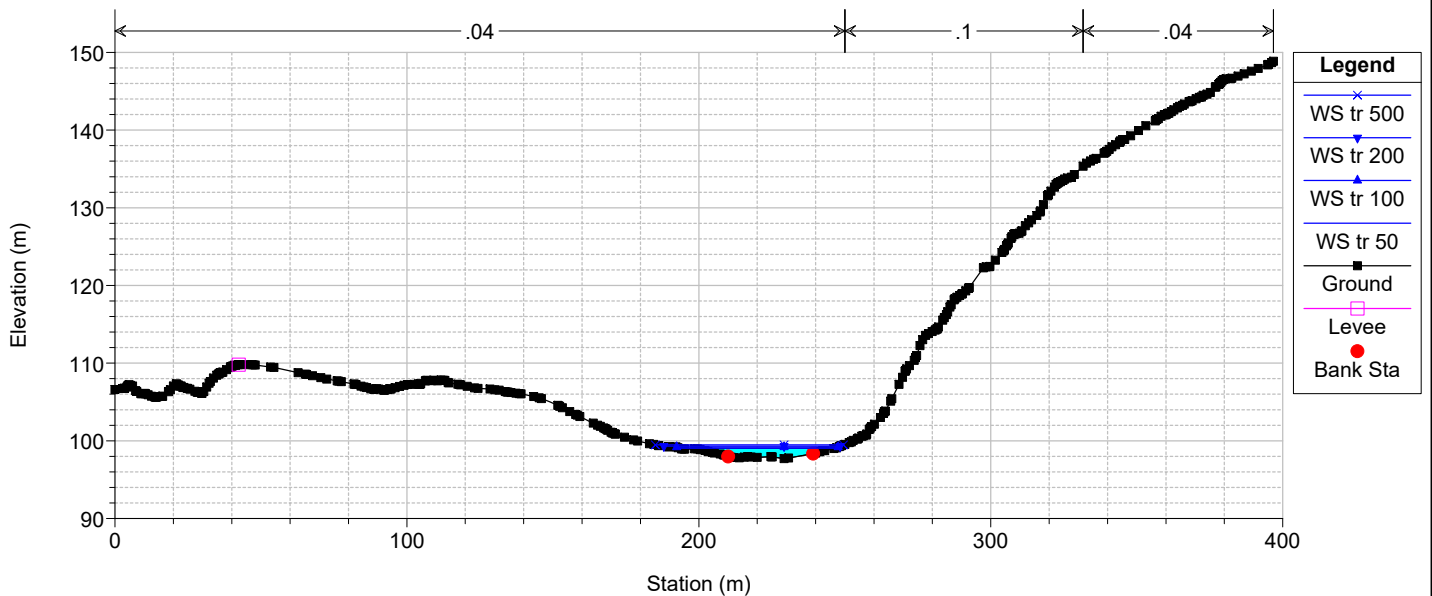
River = Riu Astimini Reach = Asta 1 RS = 2651.991 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

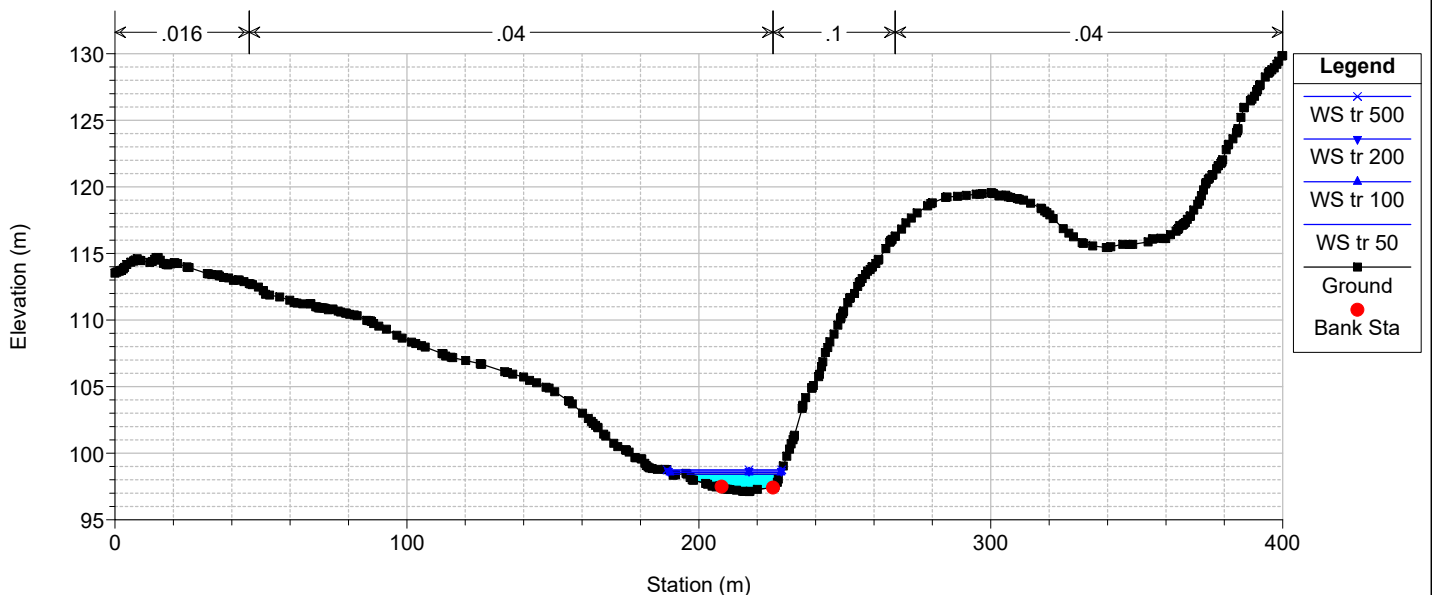
River = Riu Astimini Reach = Asta 1 RS = 2570.226 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

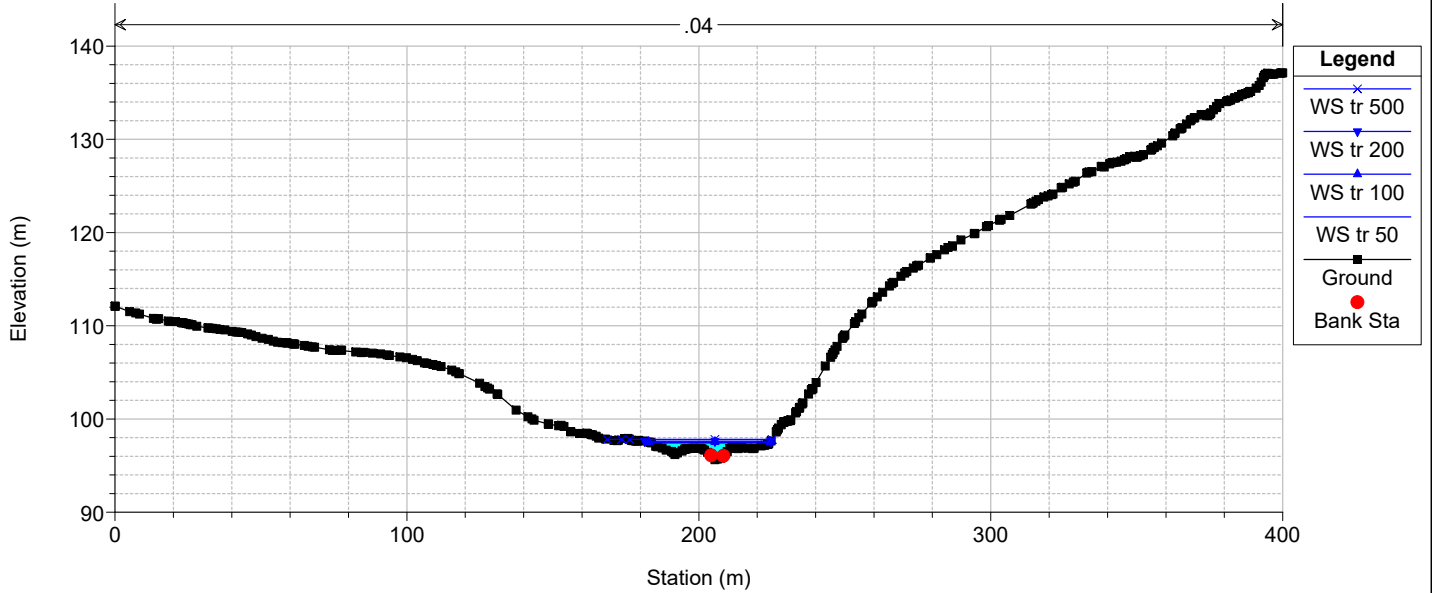
River = Riu Astimini Reach = Asta 1 RS = 2500 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

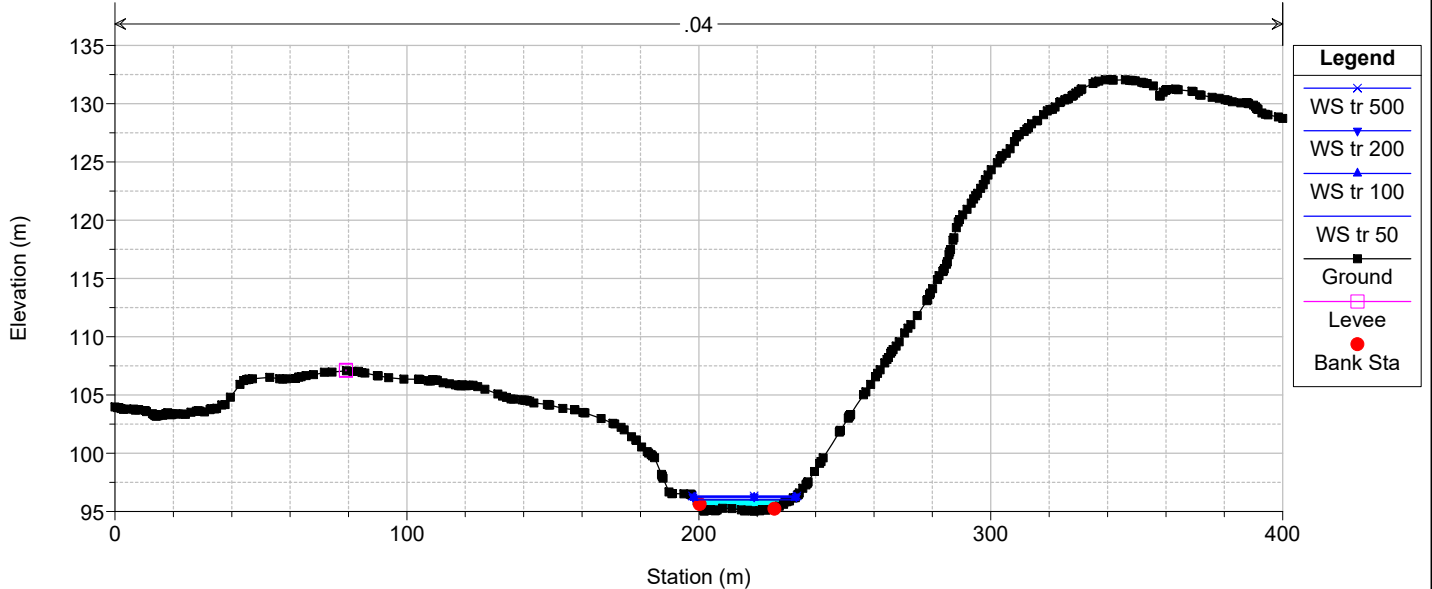
River = Riu Astimini Reach = Asta 1 RS = 2400 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

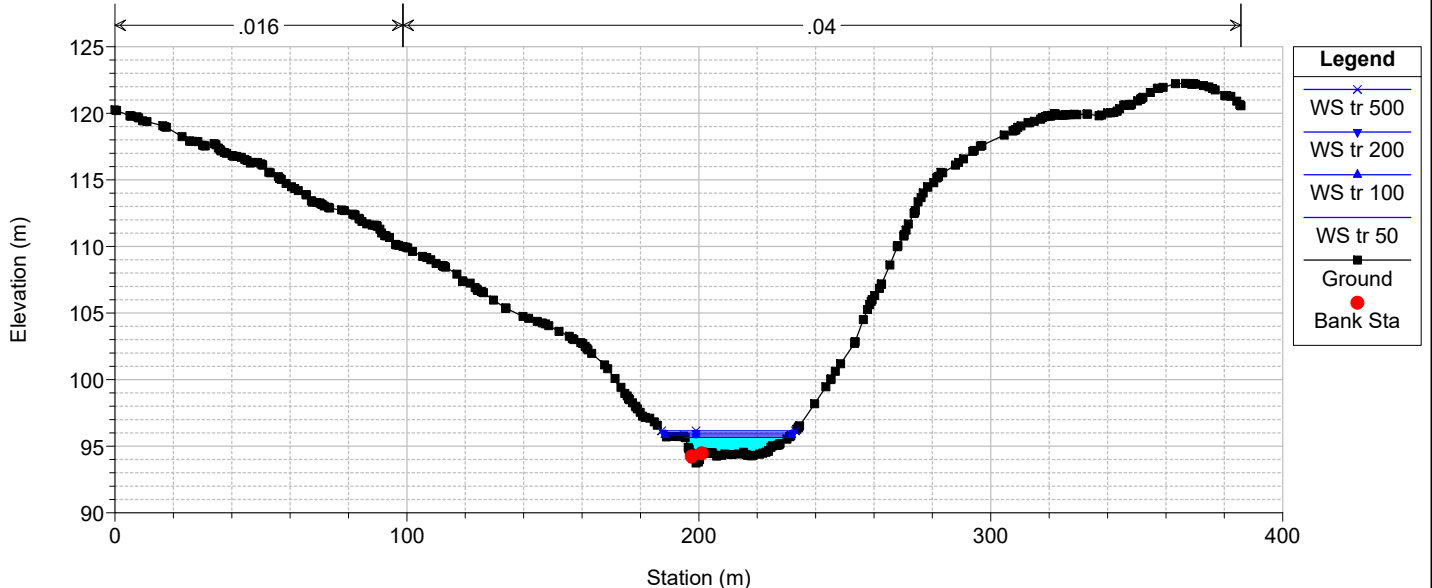
River = Riu Astimini Reach = Asta 1 RS = 2300 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

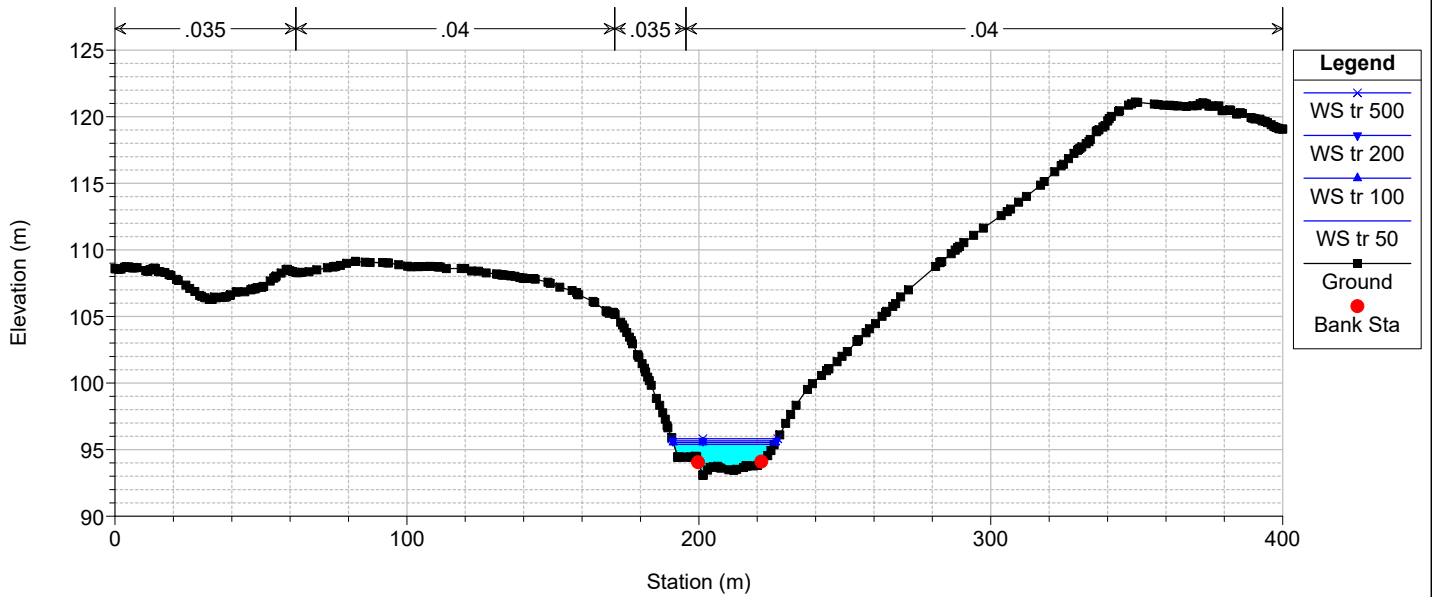
River = Riu Astimini Reach = Asta 1 RS = 2223.941 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

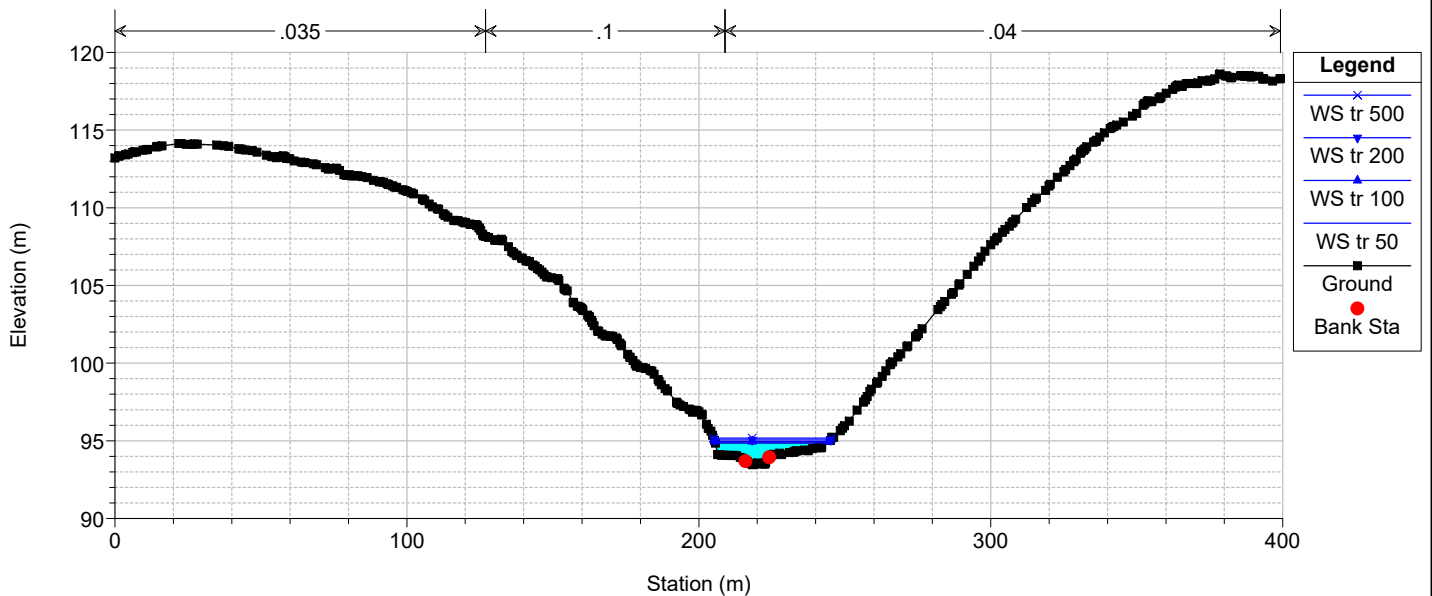
River = Riu Astimini Reach = Asta 1 RS = 2100 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

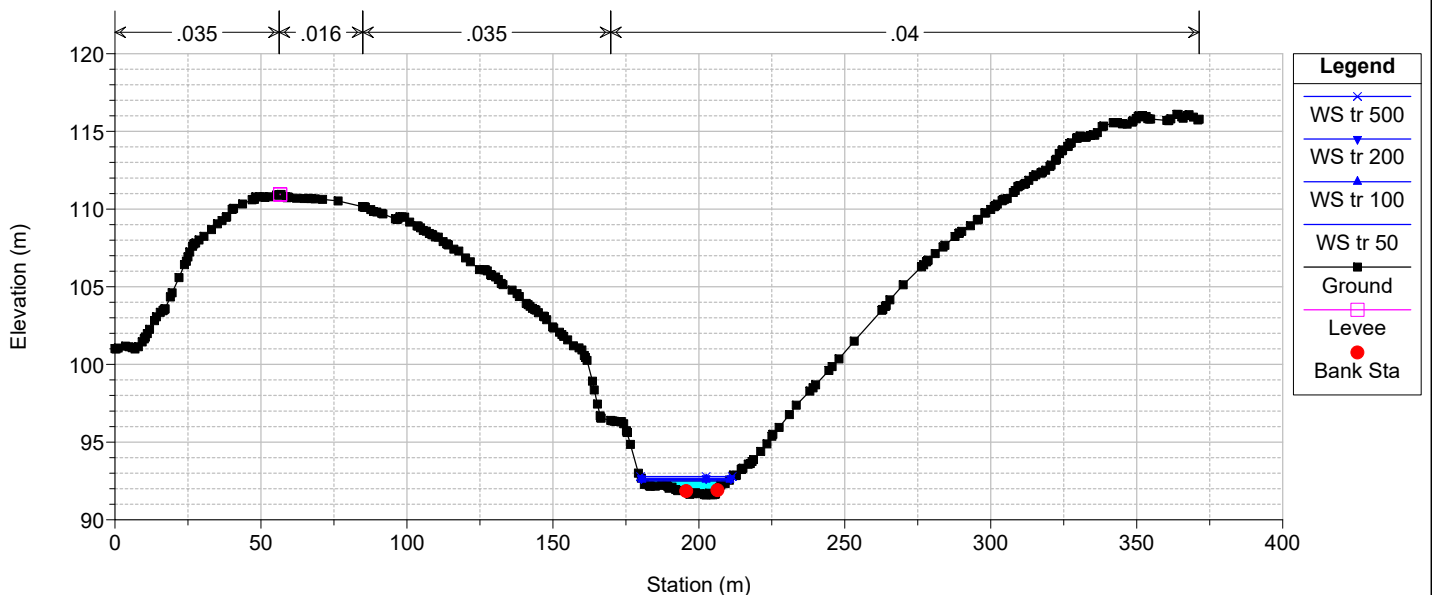
River = Riu Astimini Reach = Asta 1 RS = 2027.99 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

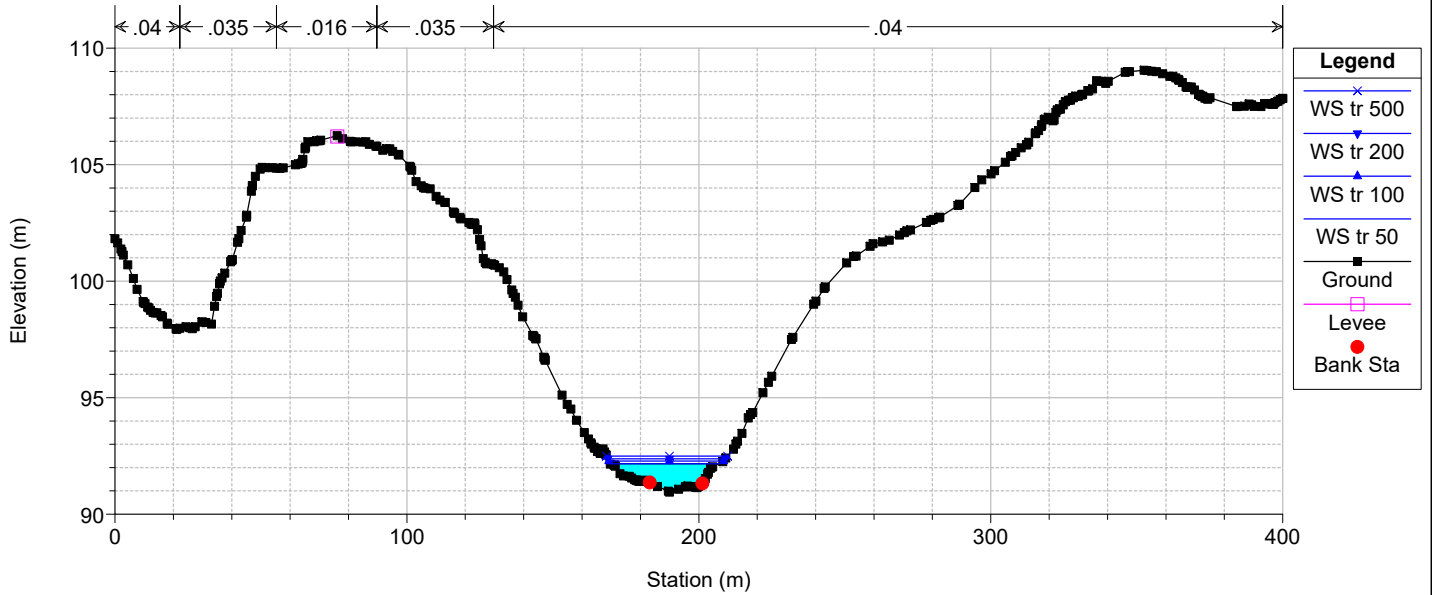
River = Riu Astimini Reach = Asta 1 RS = 1963.262 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

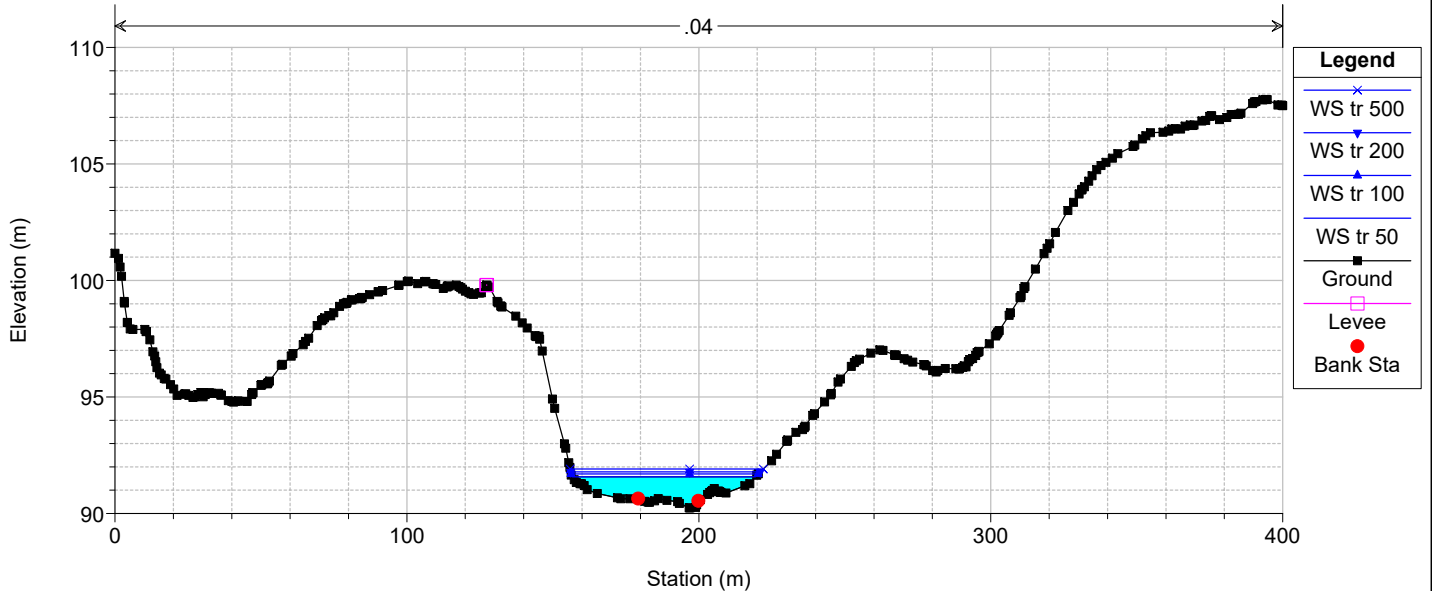
River = Riu Astimini Reach = Asta 1 RS = 1900 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

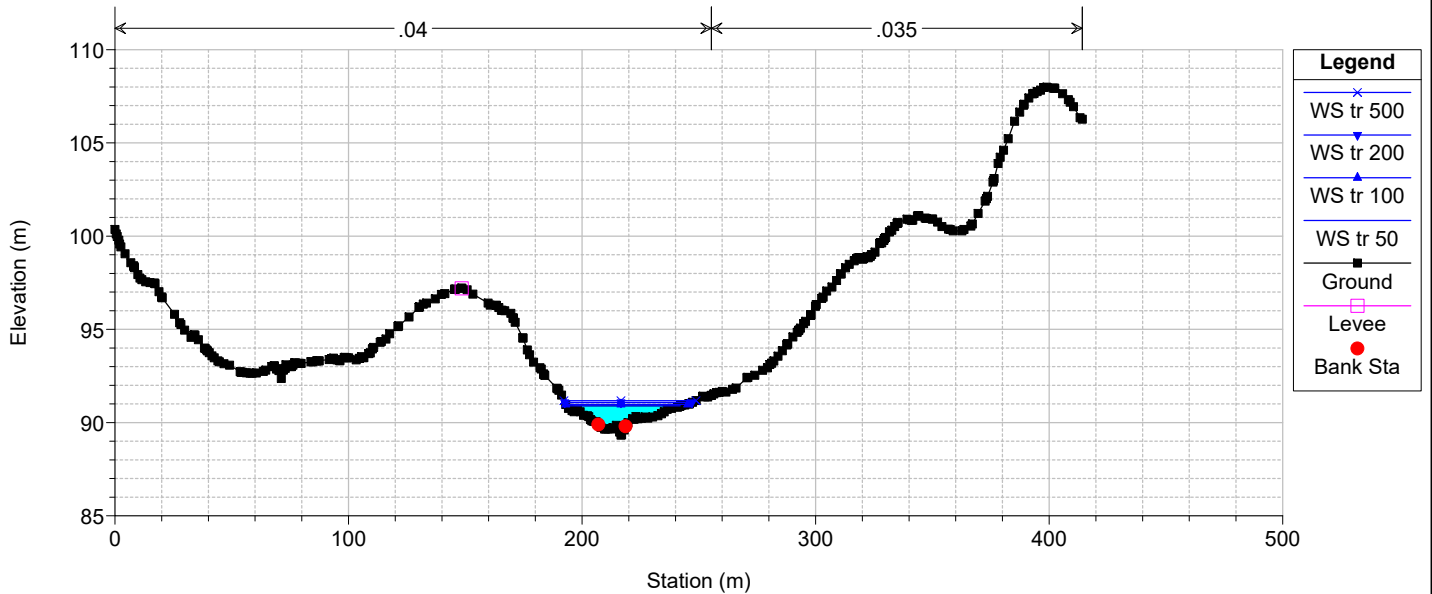
River = Riu Astimini Reach = Asta 1 RS = 1800 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

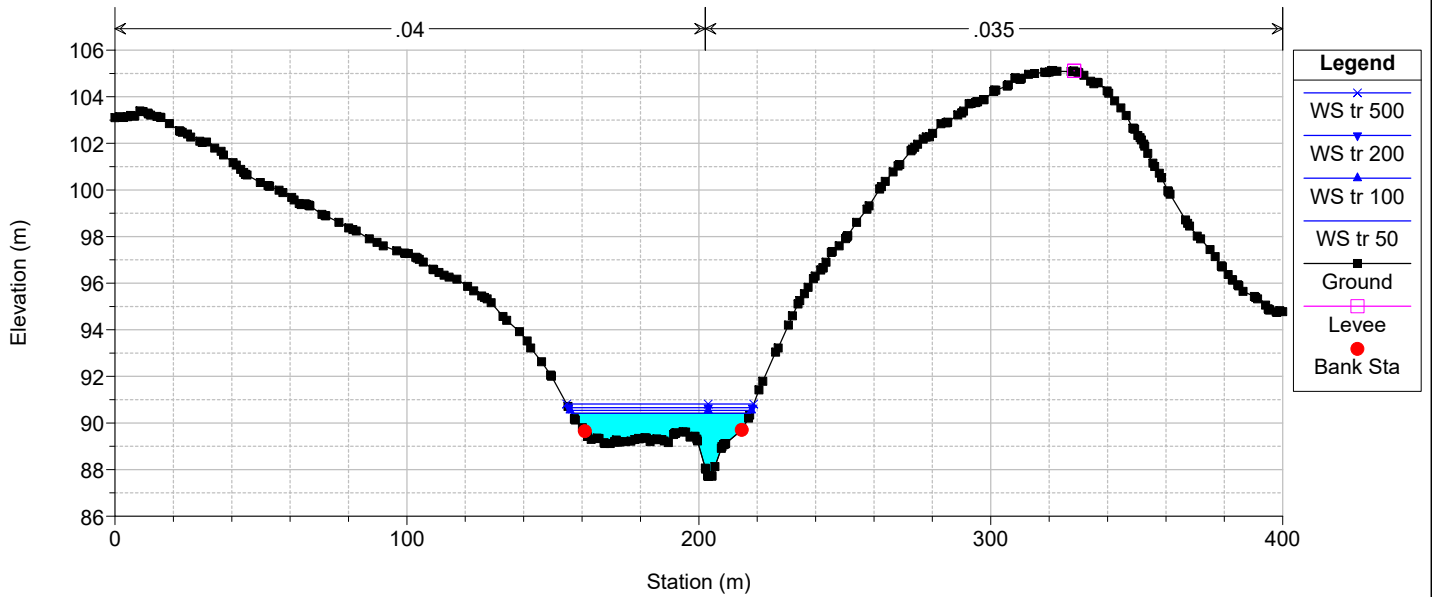
River = Riu Astimini Reach = Asta 1 RS = 1720.279 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

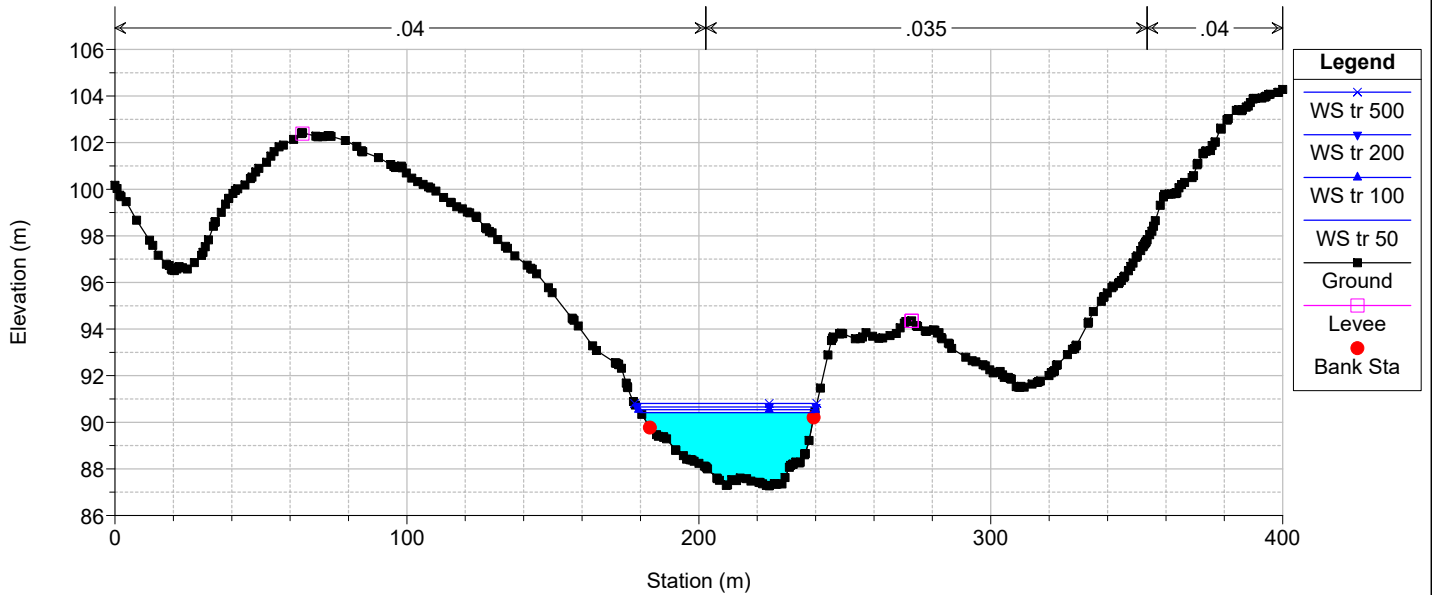
River = Riu Astimini Reach = Asta 1 RS = 1600 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

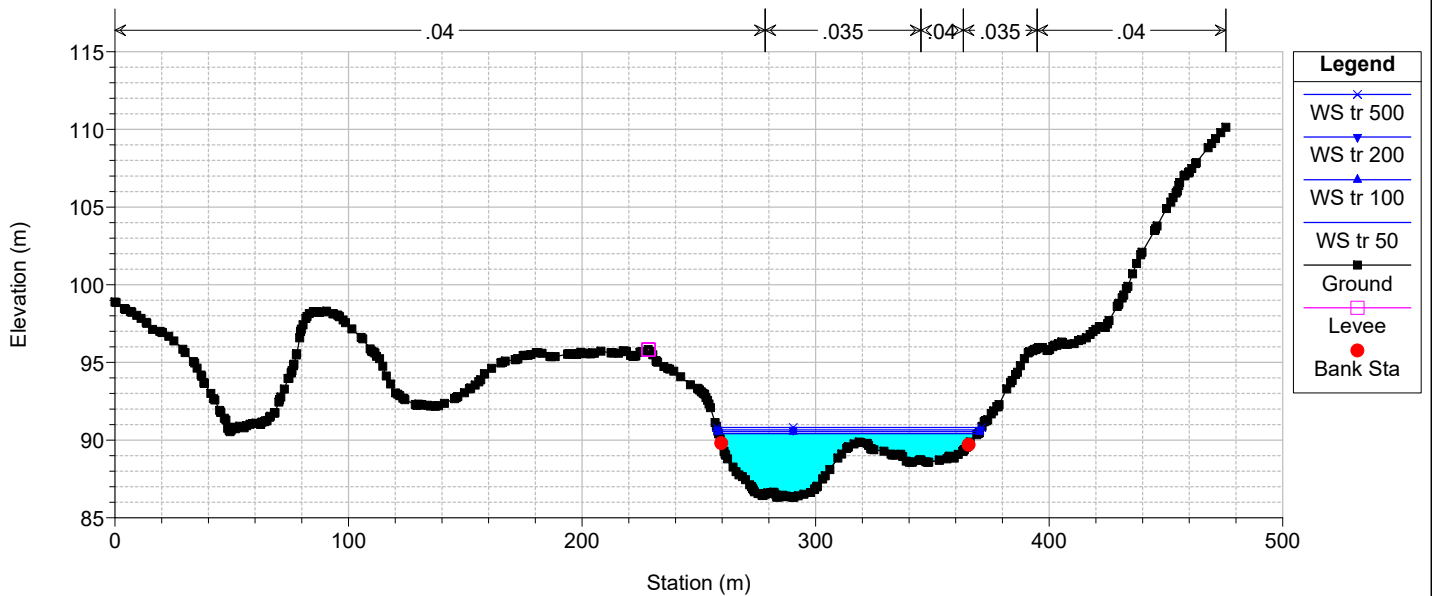
River = Riu Astimini Reach = Asta 1 RS = 1500 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

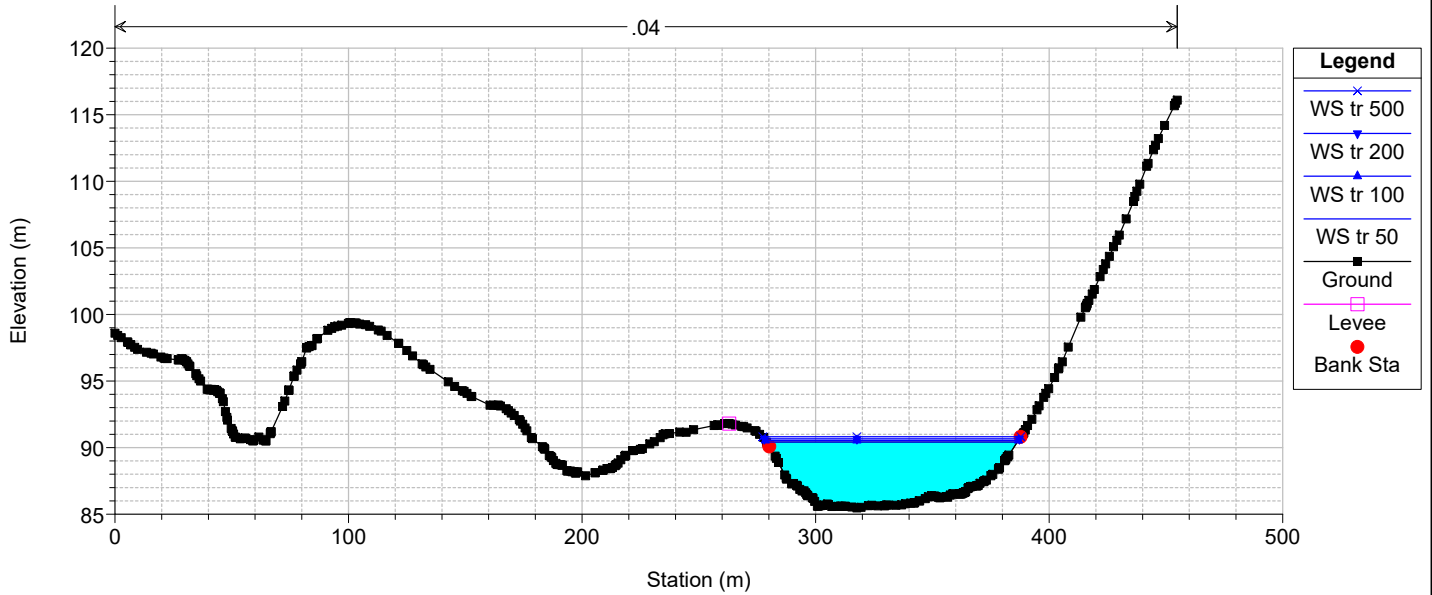
River = Riu Astimini Reach = Asta 1 RS = 1430.181 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

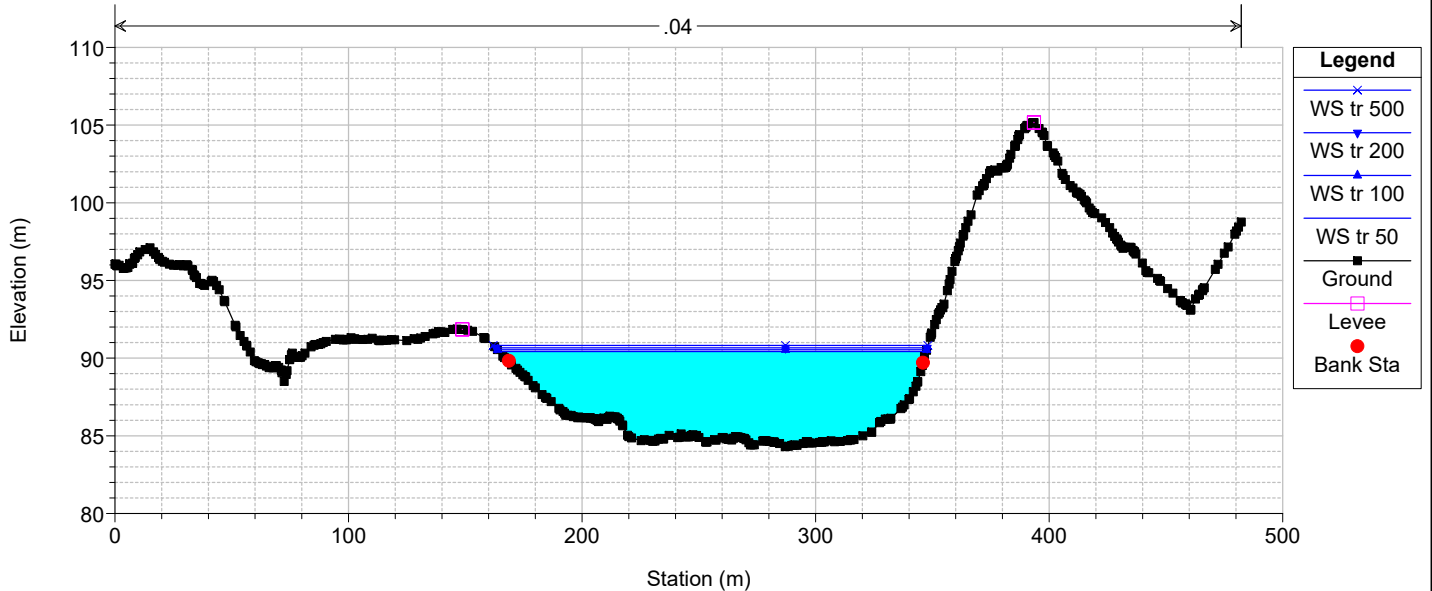
River = Riu Astimini Reach = Asta 1 RS = 1338.802 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

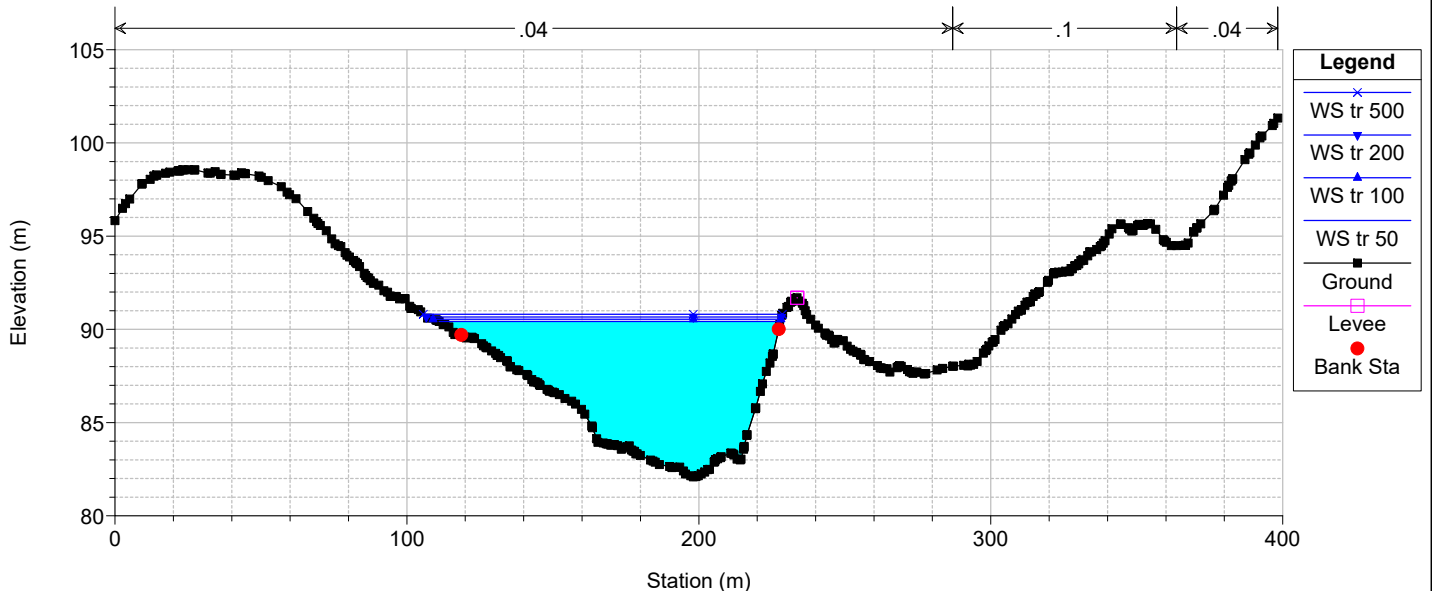
River = Riu Astimini Reach = Asta 1 RS = 1252.844 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

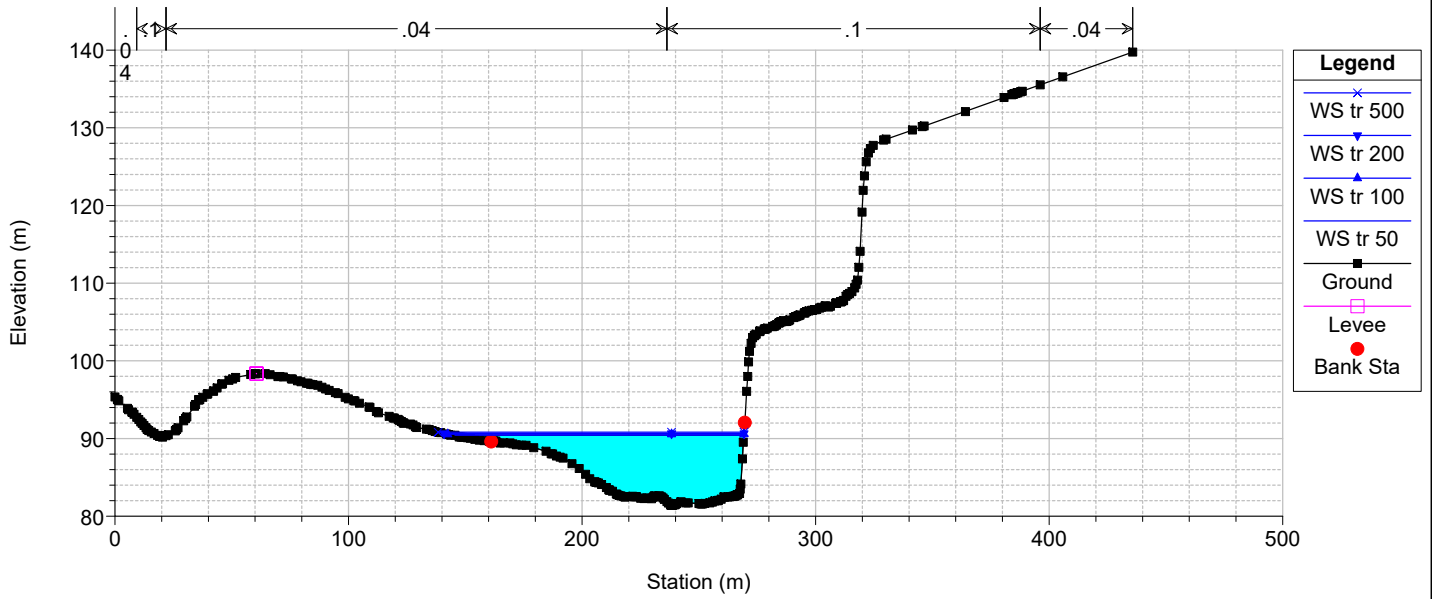
River = Riu Astimini Reach = Asta 1 RS = 1082.734 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

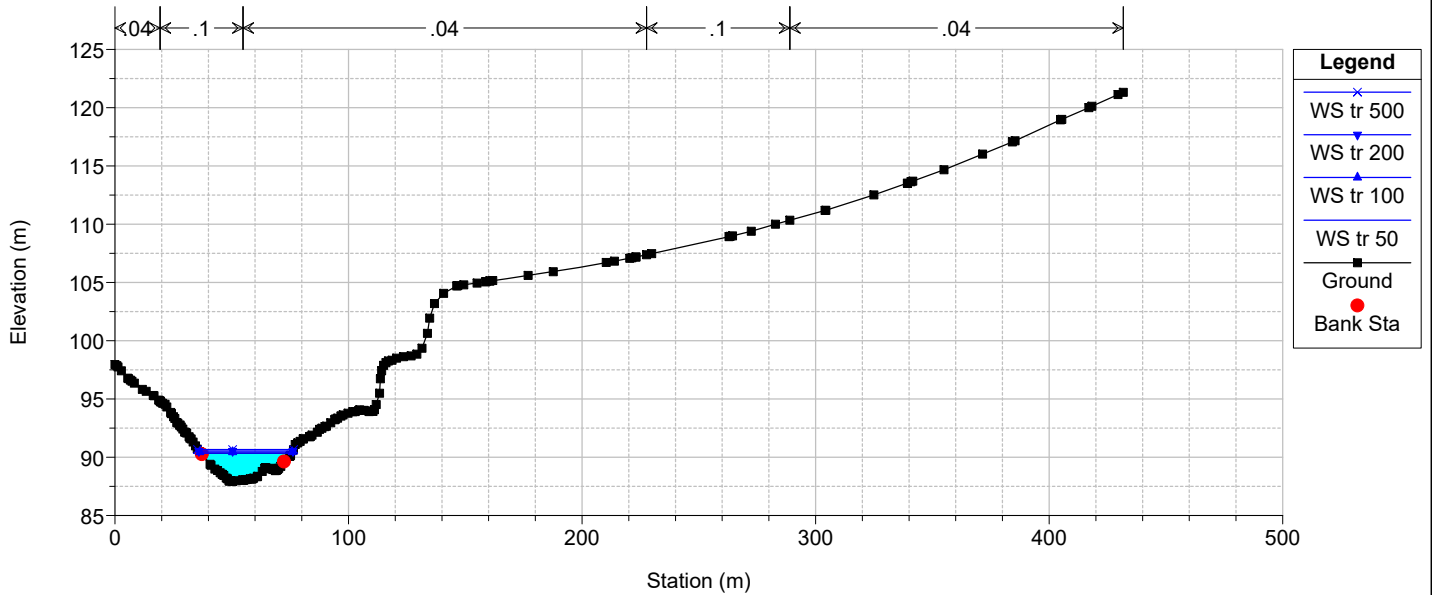
River = Riu Astimini Reach = Asta 1 RS = 988.4713 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

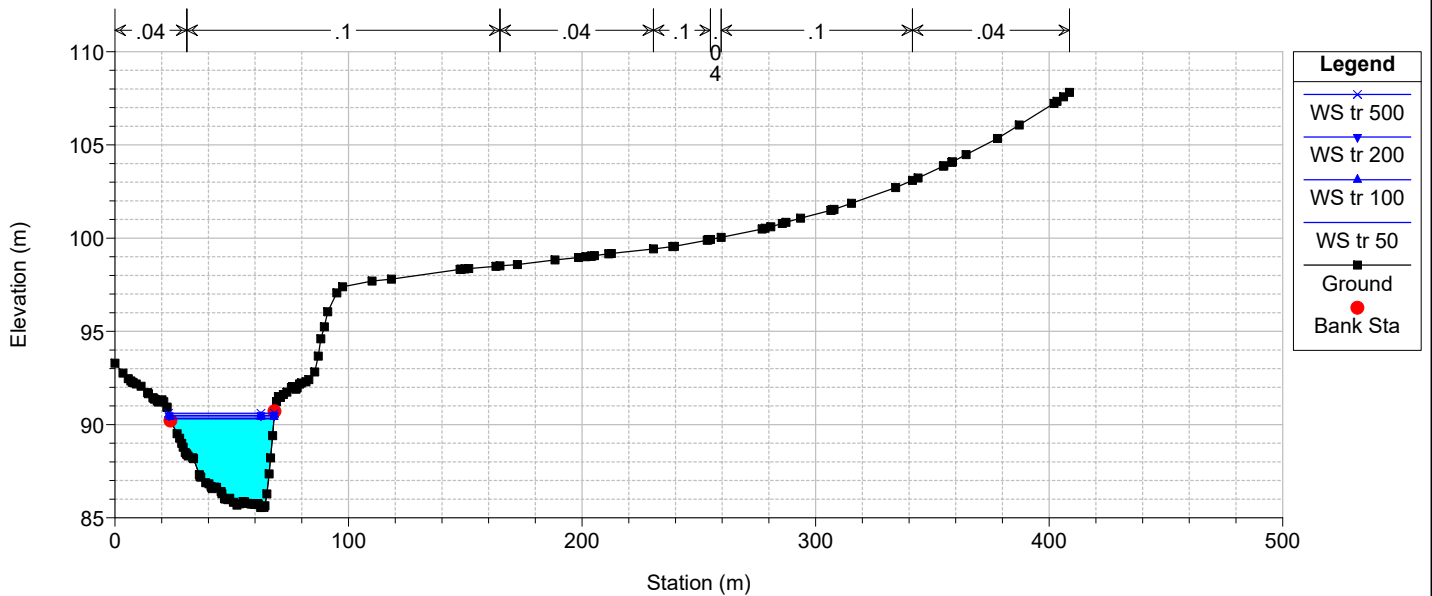
River = Riu Astimini Reach = Asta 1 RS = 871.6832 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

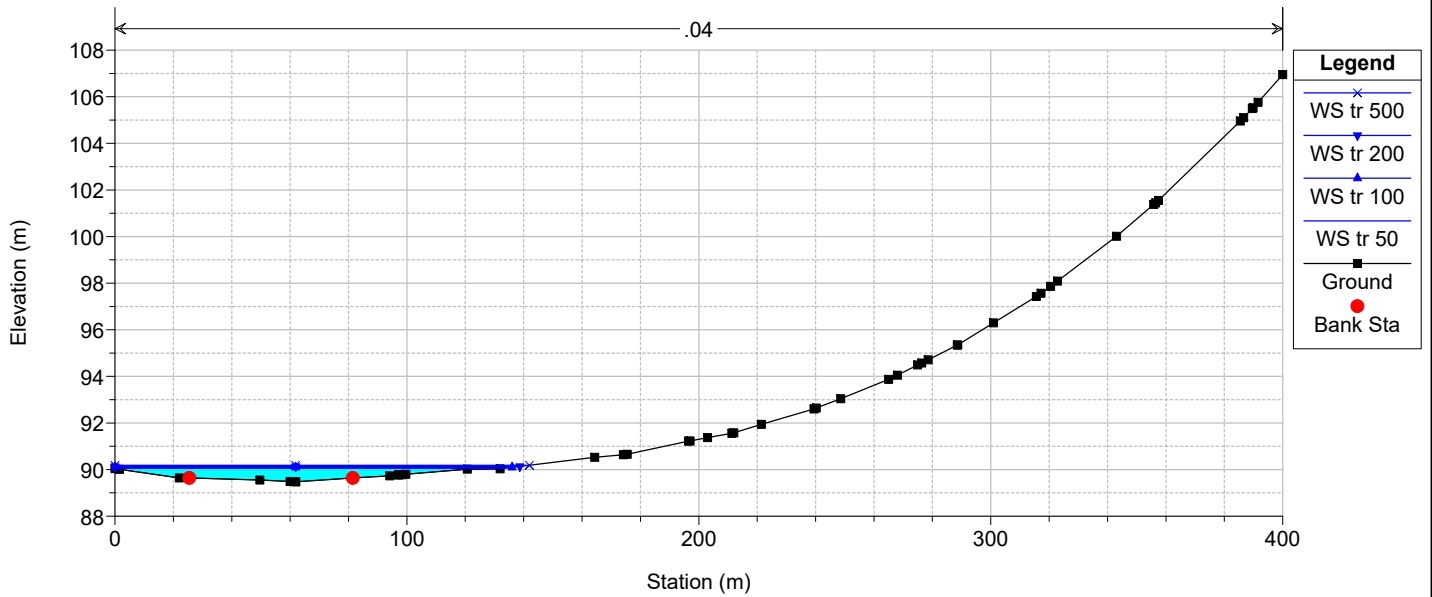
River = Riu Astimini Reach = Asta 1 RS = 790.766 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

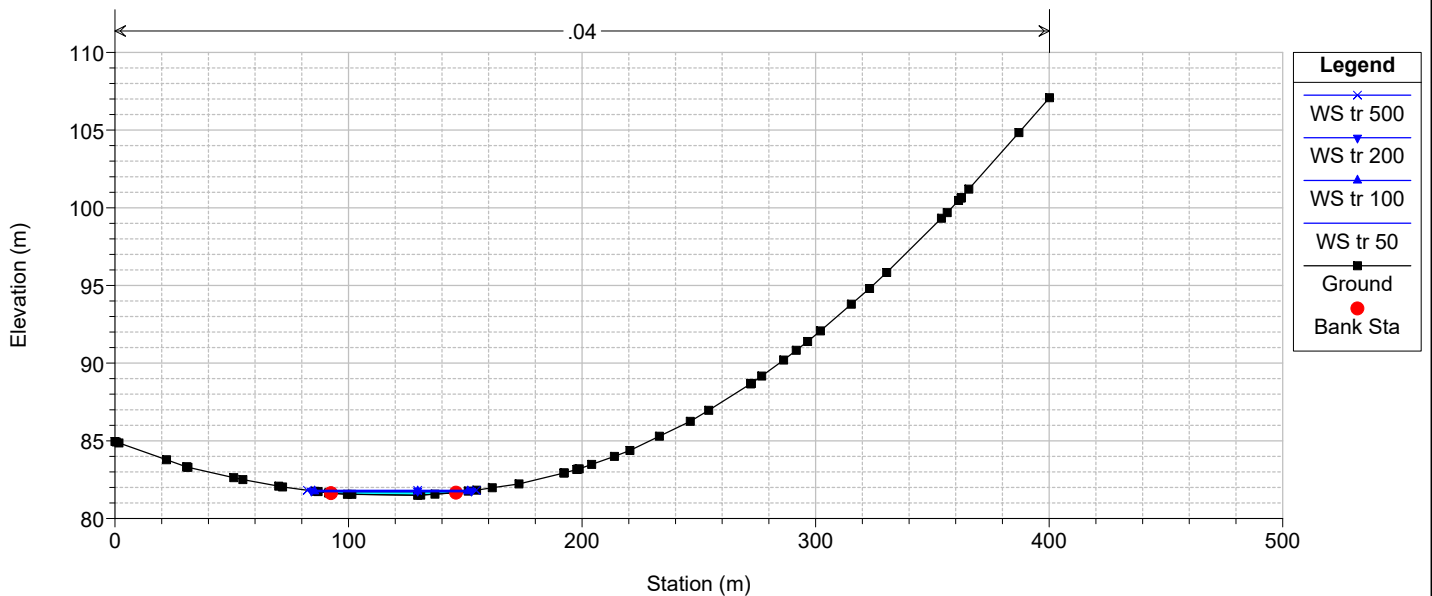
River = Riu Astimini Reach = Asta 1 RS = 700 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

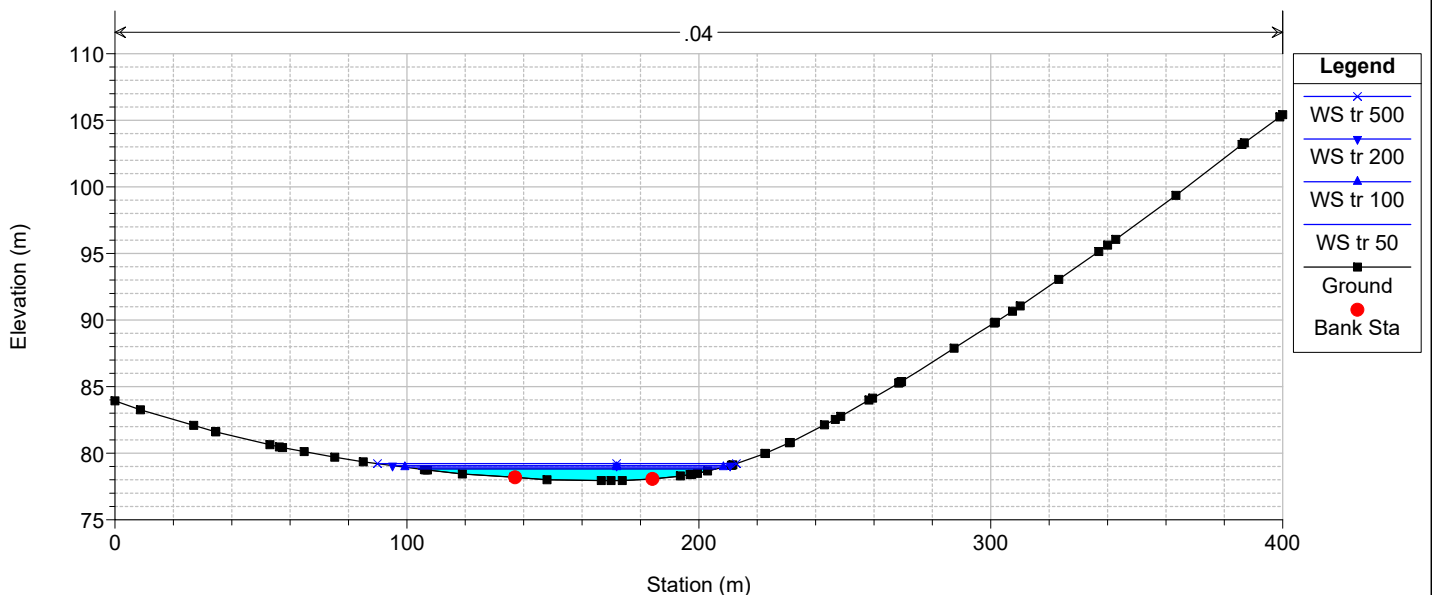
River = Riu Astimini Reach = Asta 1 RS = 583.3978 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

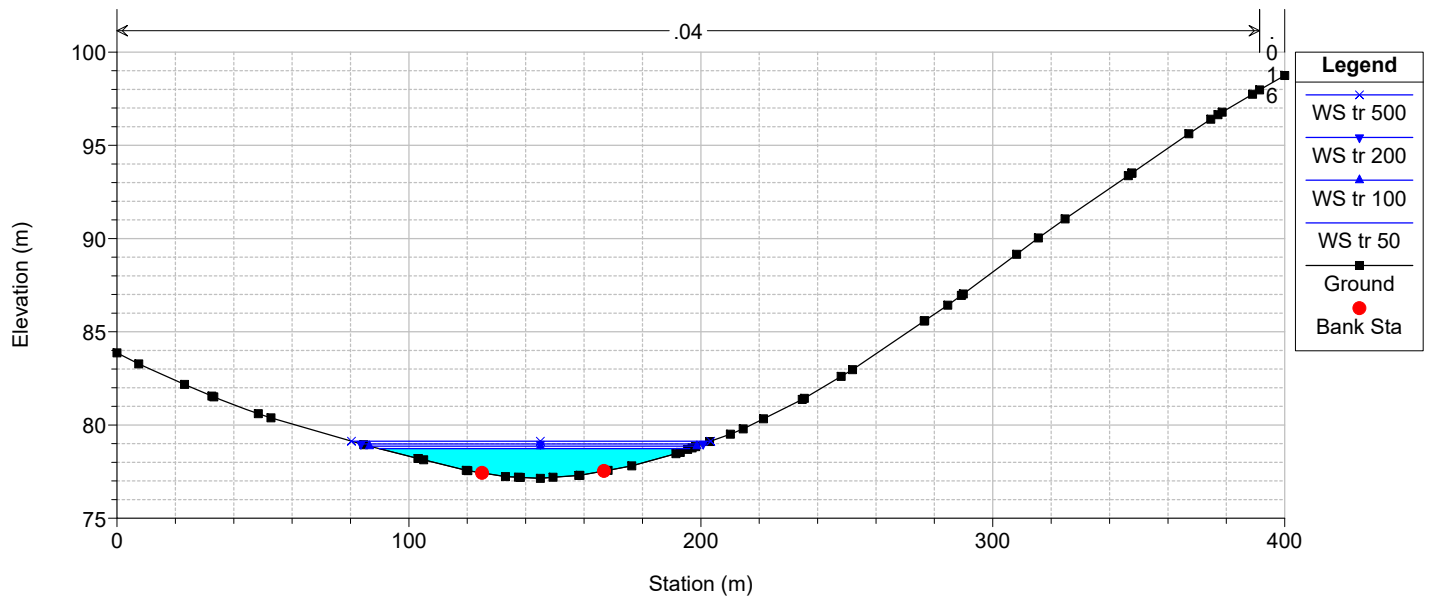
River = Riu Astimini Reach = Asta 1 RS = 500 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

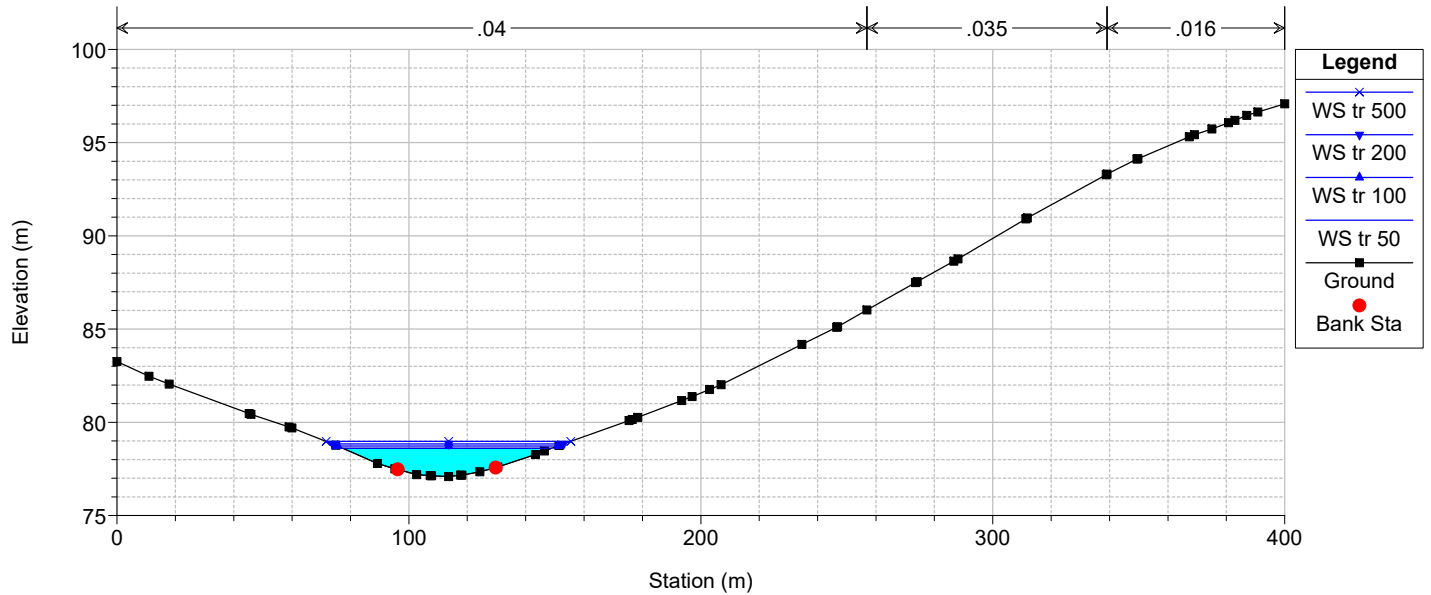
River = Riu Astimini Reach = Asta 1 RS = 400 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

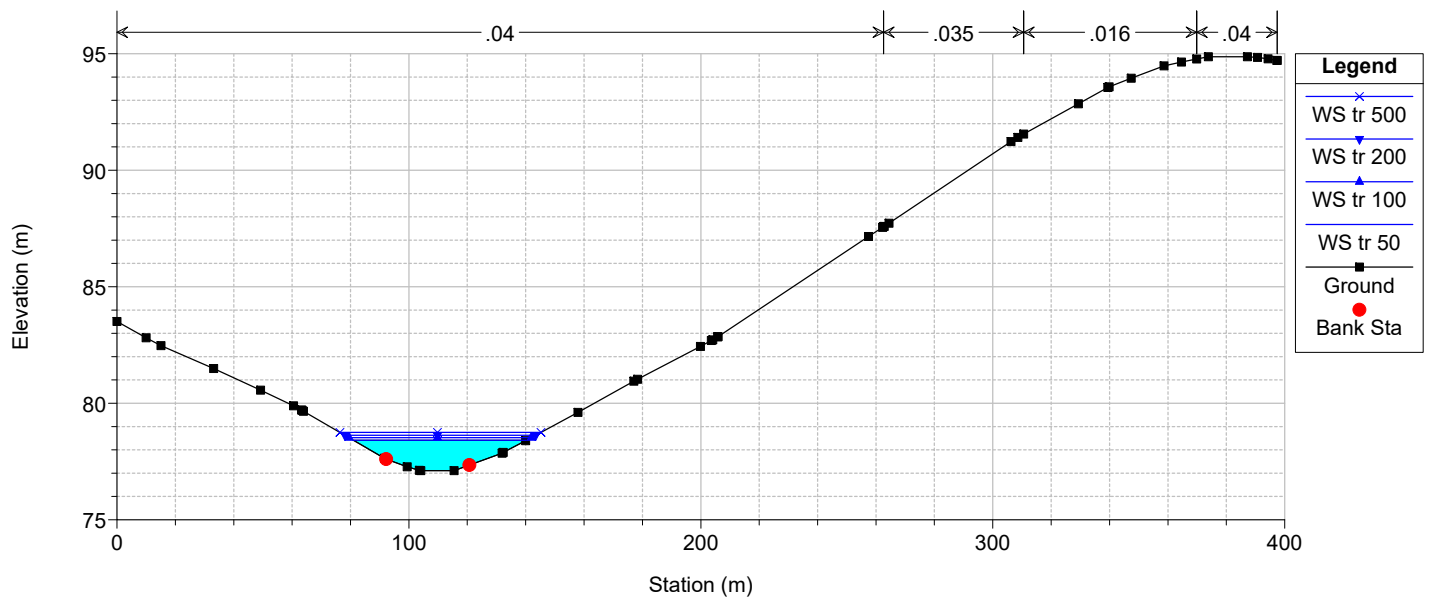
River = Riu Astimini Reach = Asta 1 RS = 300 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

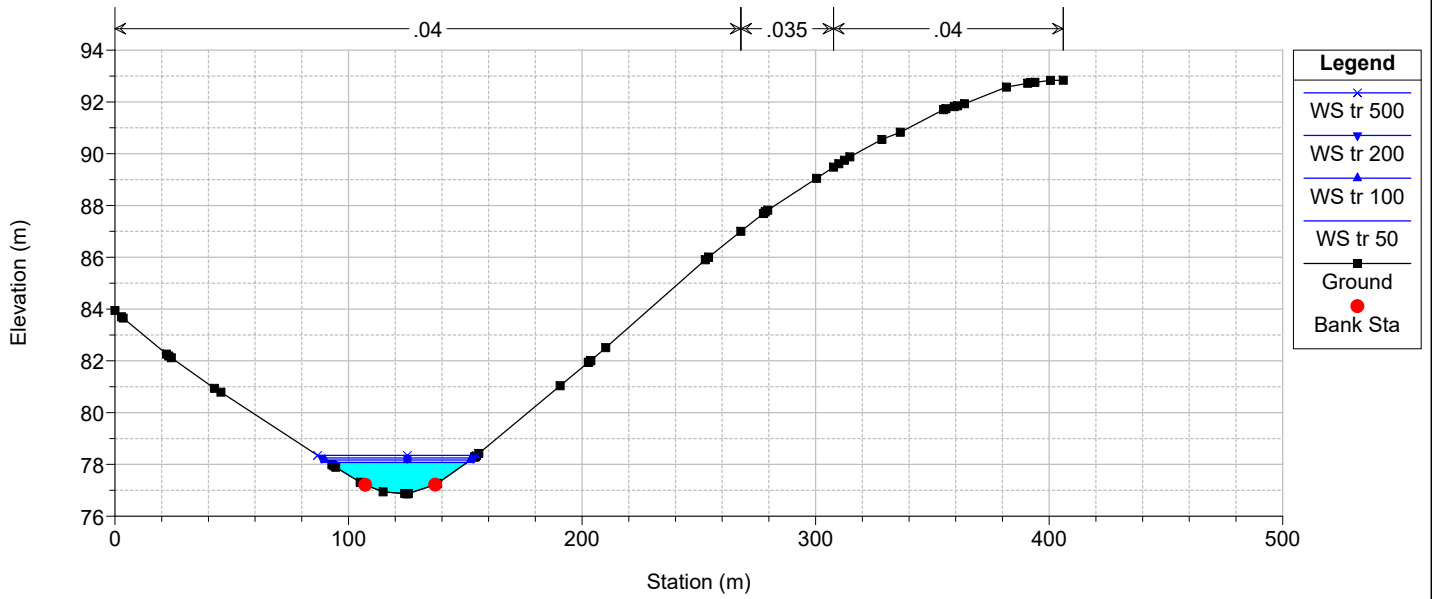
River = Riu Astimini Reach = Asta 1 RS = 235.7328 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

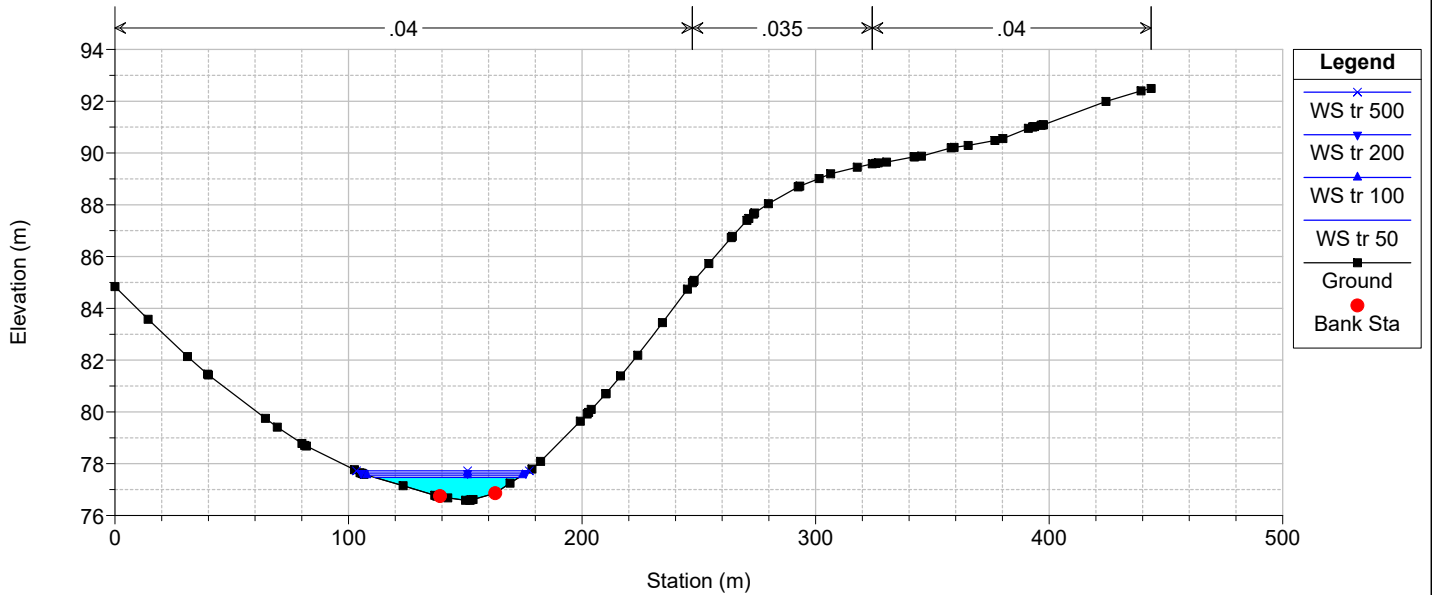
River = Riu Astimini Reach = Asta 1 RS = 153.9734 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

River = Riu Astimini Reach = Asta 1 RS = 92.28677 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 1	6901.384	tr 50	68.68	175.74	176.69	176.69	176.96	0.082490	2.40	29.69	54.18	0.88
Asta 1	6901.384	tr 100	83.03	175.74	176.76	176.76	177.08	0.078345	2.49	33.89	56.20	0.87
Asta 1	6901.384	tr 200	97.63	175.74	176.84	176.84	177.18	0.071182	2.52	38.51	60.88	0.84
Asta 1	6901.384	tr 500	117.21	175.74	177.00	177.00	177.30	0.048557	2.31	49.48	81.03	0.71
Asta 1	6817.924	tr 50	68.68	165.69	166.66	167.21	168.84	0.110218	7.15	11.32	21.30	2.55
Asta 1	6817.924	tr 100	83.03	165.69	166.74	167.35	169.16	0.109626	7.60	13.11	22.78	2.58
Asta 1	6817.924	tr 200	97.63	165.69	166.81	167.47	169.51	0.113247	8.11	14.68	24.11	2.66
Asta 1	6817.924	tr 500	117.21	165.69	166.84	167.62	170.41	0.145062	9.36	15.36	24.48	3.02
Asta 1	6734.542	tr 50	68.68	163.57	165.01	165.09	165.58	0.015768	3.71	21.94	25.49	1.04
Asta 1	6734.542	tr 100	83.03	163.57	165.12	165.30	165.78	0.016354	4.01	25.05	27.87	1.08
Asta 1	6734.542	tr 200	97.63	163.57	165.24	165.41	165.97	0.016920	4.29	28.49	32.04	1.11
Asta 1	6734.542	tr 500	117.21	163.57	165.33	165.55	166.20	0.018800	4.70	31.43	33.23	1.18
Asta 1	6660.009	tr 50	68.68	162.53	163.72	163.80	164.22	0.020889	3.39	27.04	37.70	1.09
Asta 1	6660.009	tr 100	83.03	162.53	163.82	163.87	164.38	0.020961	3.62	30.93	38.40	1.11
Asta 1	6660.009	tr 200	97.63	162.53	163.91	164.06	164.54	0.021077	3.84	34.65	41.54	1.13
Asta 1	6660.009	tr 500	117.21	162.53	164.08	164.20	164.72	0.019065	3.98	41.76	44.64	1.10
Asta 1	6600	tr 50	68.68	161.41	162.40	162.45	162.79	0.025755	3.05	28.06	44.76	1.04
Asta 1	6600	tr 100	83.03	161.41	162.48	162.53	162.92	0.026936	3.29	31.38	45.83	1.08
Asta 1	6600	tr 200	97.63	161.41	162.55	162.64	163.05	0.027796	3.51	34.61	46.90	1.12
Asta 1	6600	tr 500	117.21	161.41	162.60	162.75	163.24	0.033042	3.96	37.04	48.22	1.23
Asta 1	6537.396	tr 50	68.68	159.96	161.05	161.05	161.41	0.020784	3.40	27.55	45.28	1.13
Asta 1	6537.396	tr 100	83.03	159.96	161.18	161.21	161.53	0.017962	3.45	34.11	52.27	1.07
Asta 1	6537.396	tr 200	97.63	159.96	161.26	161.28	161.64	0.017729	3.59	38.13	52.80	1.08
Asta 1	6537.396	tr 500	117.21	159.96	161.37	161.38	161.78	0.016497	3.68	44.04	53.58	1.06
Asta 1	6415.743	tr 50	68.68	157.77	158.69	158.75	159.01	0.018546	2.95	30.89	73.84	1.05
Asta 1	6415.743	tr 100	83.03	157.77	158.72	158.84	159.12	0.021787	3.30	33.76	79.47	1.14
Asta 1	6415.743	tr 200	97.63	157.77	158.78	158.90	159.21	0.022491	3.49	38.05	82.82	1.17
Asta 1	6415.743	tr 500	117.21	157.77	158.82	158.97	159.32	0.024750	3.79	42.19	86.68	1.24
Asta 1	6274.141	tr 50	68.68	154.49	155.47	155.58	155.89	0.026395	3.17	24.87	47.42	1.22
Asta 1	6274.141	tr 100	83.03	154.49	155.57	155.65	156.00	0.022273	3.21	30.23	51.20	1.14
Asta 1	6274.141	tr 200	97.63	154.49	155.65	155.74	156.11	0.021353	3.33	34.12	52.22	1.14
Asta 1	6274.141	tr 500	117.21	154.49	155.76	155.83	156.24	0.019339	3.42	39.74	53.44	1.10
Asta 1	6200	tr 50	68.68	153.21	154.26	154.26	154.56	0.015343	2.62	29.38	47.85	0.94
Asta 1	6200	tr 100	83.03	153.21	154.35	154.35	154.68	0.014968	2.77	33.50	48.57	0.95
Asta 1	6200	tr 200	97.63	153.21	154.42	154.43	154.80	0.015298	2.96	36.97	49.26	0.97
Asta 1	6200	tr 500	117.21	153.21	154.48	154.50	154.95	0.017238	3.27	40.06	49.87	1.04
Asta 1	6100	tr 50	68.68	151.12	152.10	152.21	152.62	0.024795	3.39	21.99	32.57	1.21
Asta 1	6100	tr 100	83.03	151.12	152.19	152.32	152.78	0.024349	3.61	25.10	33.99	1.22
Asta 1	6100	tr 200	97.63	151.12	152.29	152.43	152.93	0.022872	3.75	28.52	34.99	1.20
Asta 1	6100	tr 500	117.21	151.12	152.44	152.55	153.09	0.019733	3.82	33.76	36.12	1.14
Asta 1	6033.203	tr 50	68.68	149.79	150.97	150.98	151.33	0.014818	3.02	27.18	37.97	0.97
Asta 1	6033.203	tr 100	83.03	149.79	151.07	151.08	151.47	0.014941	3.22	30.78	39.04	0.99
Asta 1	6033.203	tr 200	97.63	149.79	151.14	151.17	151.61	0.016055	3.48	33.50	39.81	1.03
Asta 1	6033.203	tr 500	117.21	149.79	151.20	151.30	151.79	0.018828	3.89	35.91	40.48	1.13
Asta 1	5915.203	tr 50	68.68	148.21	149.49	149.33	149.70	0.007420	2.14	36.06	49.57	0.68
Asta 1	5915.203	tr 100	83.03	148.21	149.58	149.39	149.82	0.007729	2.31	40.63	51.53	0.71
Asta 1	5915.203	tr 200	97.63	148.21	149.69	149.52	149.94	0.007245	2.39	46.51	53.41	0.70
Asta 1	5915.203	tr 500	117.21	148.21	149.79	149.63	150.09	0.007510	2.57	52.17	55.18	0.72
Asta 1	5853.221	tr 50	68.68	147.70	148.66	148.66	149.02	0.016575	2.72	26.38	38.74	0.98
Asta 1	5853.221	tr 100	83.03	147.70	148.78	148.78	149.16	0.014604	2.81	31.20	40.95	0.95
Asta 1	5853.221	tr 200	97.63	147.70	148.85	148.85	149.29	0.015332	3.03	34.15	41.64	0.98
Asta 1	5853.221	tr 500	117.21	147.70	148.99	148.99	149.46	0.013456	3.11	40.44	44.61	0.94
Asta 1	5792.636	tr 50	68.68	143.93	146.23	144.96	146.29	0.000687	1.07	67.62	38.57	0.24
Asta 1	5792.636	tr 100	83.03	143.93	146.38	145.07	146.45	0.000795	1.21	73.17	39.71	0.26
Asta 1	5792.636	tr 200	97.63	143.93	146.51	145.18	146.59	0.000898	1.33	78.45	40.76	0.28
Asta 1	5792.636	tr 500	117.21	143.93	146.67	145.33	146.77	0.001026	1.49	85.04	42.37	0.30
Asta 1	5700	tr 50	68.68	144.29	145.77	145.77	146.10	0.010421	2.99	30.09	40.87	0.84
Asta 1	5700	tr 100	83.03	144.29	145.86	145.86	146.23	0.010747	3.18	33.95	41.43	0.87
Asta 1	5700	tr 200	97.63	144.29	145.96	145.96	146.36	0.010798	3.33	37.90	43.58	0.88
Asta 1	5700	tr 500	117.21	144.29	146.07	146.07	146.51	0.010866	3.51	42.99	45.59	0.89
Asta 1	5606.676	tr 50	68.68	142.26	142.87	143.13	143.79	0.104316	4.42	16.47	45.70	2.21
Asta 1	5606.676	tr 100	83.03	142.26	142.93	143.22	143.92	0.094333	4.59	19.13	46.12	2.15
Asta 1	5606.676	tr 200	97.63	142.26	142.98	143.29	144.06	0.089659	4.80	21.49	46.45	2.13
Asta 1	5606.676	tr 500	117.21	142.26	143.04	143.40	144.24	0.084103	5.03	24.56	46.91	2.11
Asta 1	5559.441	tr 50	68.68	141.27	142.65	142.65	142.97	0.013698	2.95	29.11	43.68	0.93
Asta 1	5559.441	tr 100	83.03	141.27	142.75	142.75	143.10	0.013673	3.13	33.44	45.38	0.94
Asta 1	5559.441	tr 200	97.63	141.27	142.83	142.83	143.22	0.013401	3.26	37.40	46.04	0.94

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 1	5559.441	tr 500	117.21	141.27	142.93	142.93	143.36	0.013484	3.44	41.99	46.69	0.96
Asta 1	5504.935	tr 50	68.68	140.56	141.60	141.67	141.99	0.024638	2.92	25.19	45.25	1.16
Asta 1	5504.935	tr 100	83.03	140.56	141.67	141.76	142.12	0.024739	3.13	28.43	46.59	1.18
Asta 1	5504.935	tr 200	97.63	140.56	141.74	141.84	142.24	0.025006	3.34	31.48	47.67	1.21
Asta 1	5504.935	tr 500	117.21	140.56	141.82	141.95	142.39	0.024541	3.55	35.70	49.13	1.22
Asta 1	5426.729	tr 50	68.68	139.43	140.57	140.56	140.83	0.014029	2.40	32.03	56.26	0.89
Asta 1	5426.729	tr 100	83.03	139.43	140.69	140.63	140.94	0.011450	2.40	38.68	57.05	0.83
Asta 1	5426.729	tr 200	97.63	139.43	140.73	140.71	141.04	0.013394	2.67	40.82	57.30	0.90
Asta 1	5426.729	tr 500	117.21	139.43	140.82	140.79	141.17	0.013099	2.82	46.22	57.94	0.91
Asta 1	5357.652	tr 50	68.68	138.13	139.49	139.49	139.83	0.014668	3.00	27.49	38.34	0.96
Asta 1	5357.652	tr 100	83.03	138.13	139.54	139.54	139.97	0.016977	3.34	29.70	39.91	1.04
Asta 1	5357.652	tr 200	97.63	138.13	139.70	139.70	140.10	0.013595	3.28	36.14	43.54	0.95
Asta 1	5357.652	tr 500	117.21	138.13	139.82	139.82	140.26	0.013162	3.43	41.43	46.58	0.95
Asta 1	5300	tr 50	68.68	137.22	138.73	138.15	138.77	0.001168	1.05	80.52	88.35	0.29
Asta 1	5300	tr 100	83.03	137.22	138.86	138.21	138.90	0.001150	1.11	92.17	91.71	0.29
Asta 1	5300	tr 200	97.63	137.22	138.98	138.27	139.03	0.001138	1.16	103.63	95.59	0.29
Asta 1	5300	tr 500	117.21	137.22	139.13	138.34	139.19	0.001104	1.21	118.43	99.73	0.29
Asta 1	5240.008	tr 50	68.68	135.97	138.73		138.74	0.000149	0.56	144.66	78.21	0.11
Asta 1	5240.008	tr 100	83.03	135.97	138.86		138.87	0.000179	0.64	154.68	79.45	0.13
Asta 1	5240.008	tr 200	97.63	135.97	138.98		139.00	0.000207	0.70	164.31	80.71	0.14
Asta 1	5240.008	tr 500	117.21	135.97	139.13		139.15	0.000242	0.79	176.48	82.28	0.15
Asta 1	5198.837	tr 50	68.68	135.38	138.73		138.74	0.000087	0.50	165.81	73.49	0.09
Asta 1	5198.837	tr 100	83.03	135.38	138.85		138.87	0.000109	0.57	175.19	75.00	0.10
Asta 1	5198.837	tr 200	97.63	135.38	138.97		138.99	0.000133	0.65	184.29	77.72	0.11
Asta 1	5198.837	tr 500	117.21	135.38	139.12		139.14	0.000161	0.73	195.96	79.48	0.12
Asta 1	5174.26	tr 50	68.68	134.98	138.72	136.64	138.74	0.000116	0.61	160.00	82.16	0.10
Asta 1	5174.26	tr 100	83.03	134.98	138.85	136.74	138.86	0.000141	0.69	170.42	83.22	0.12
Asta 1	5174.26	tr 200	97.63	134.98	138.97	136.85	138.99	0.000164	0.76	180.36	83.83	0.12
Asta 1	5174.26	tr 500	117.21	134.98	139.12	136.98	139.14	0.000194	0.85	192.82	84.95	0.14
Asta 1	5159.743		Culvert									
Asta 1	5147.997	tr 50	68.68	134.17	135.72	135.72	136.16	0.015538	3.13	23.94	27.64	0.98
Asta 1	5147.997	tr 100	83.03	134.17	135.85	135.85	136.34	0.014925	3.31	27.48	28.54	0.98
Asta 1	5147.997	tr 200	97.63	134.17	135.96	135.96	136.50	0.014700	3.50	30.72	29.30	0.99
Asta 1	5147.997	tr 500	117.21	134.17	136.11	136.11	136.71	0.014051	3.68	35.18	30.26	0.99
Asta 1	5106.909	tr 50	68.68	133.64	135.04	135.08	135.44	0.018796	3.52	25.26	36.20	1.06
Asta 1	5106.909	tr 100	83.03	133.64	135.10	135.18	135.59	0.021776	3.92	27.31	36.89	1.15
Asta 1	5106.909	tr 200	97.63	133.64	135.17	135.28	135.74	0.023324	4.20	29.76	37.70	1.20
Asta 1	5106.909	tr 500	117.21	133.64	135.24	135.41	135.93	0.025744	4.59	32.65	38.85	1.28
Asta 1	5021.271	tr 50	68.68	132.55	133.78	133.61	133.96	0.006698	2.22	38.38	49.77	0.67
Asta 1	5021.271	tr 100	83.03	132.55	133.88	133.69	134.09	0.006770	2.36	43.36	50.77	0.68
Asta 1	5021.271	tr 200	97.63	132.55	133.97	133.78	134.20	0.006978	2.51	47.78	51.65	0.70
Asta 1	5021.271	tr 500	117.21	132.55	134.07	133.88	134.34	0.007373	2.71	52.96	52.66	0.72
Asta 1	4973.725	tr 50	68.68	132.17	133.23	133.23	133.53	0.012630	2.51	29.09	47.25	0.92
Asta 1	4973.725	tr 100	83.03	132.17	133.31	133.31	133.64	0.012669	2.65	33.00	48.80	0.94
Asta 1	4973.725	tr 200	97.63	132.17	133.39	133.39	133.75	0.012305	2.75	37.13	52.32	0.93
Asta 1	4973.725	tr 500	117.21	132.17	133.50	133.50	133.89	0.011616	2.85	42.87	54.40	0.92
Asta 1	4903.506	tr 50	68.68	130.90	132.22	132.04	132.42	0.006508	2.14	36.44	46.05	0.66
Asta 1	4903.506	tr 100	83.03	130.90	132.29	132.06	132.53	0.007337	2.37	39.65	46.57	0.71
Asta 1	4903.506	tr 200	97.63	130.90	132.39	132.23	132.66	0.007461	2.52	44.17	49.11	0.73
Asta 1	4903.506	tr 500	117.21	130.90	132.50	132.30	132.81	0.007542	2.68	49.78	50.63	0.74
Asta 1	4845.499	tr 50	68.68	129.97	131.38	131.38	131.81	0.017158	3.14	24.68	34.34	1.01
Asta 1	4845.499	tr 100	83.03	129.97	131.58	131.58	131.95	0.013801	2.89	32.32	43.00	0.92
Asta 1	4845.499	tr 200	97.63	129.97	131.69	131.69	132.07	0.014127	2.87	37.29	47.93	0.92
Asta 1	4845.499	tr 500	117.21	129.97	131.80	131.80	132.21	0.014480	2.94	42.78	51.43	0.94
Asta 1	4761.953	tr 50	68.68	128.43	129.07	129.22	129.60	0.045832	3.32	21.98	52.95	1.52
Asta 1	4761.953	tr 100	83.03	128.43	129.08	129.30	129.80	0.059977	3.88	22.79	53.33	1.74
Asta 1	4761.953	tr 200	97.63	128.43	129.14	129.37	129.92	0.056897	4.05	25.79	54.65	1.73
Asta 1	4761.953	tr 500	117.21	128.43	129.21	129.48	130.06	0.053830	4.26	29.62	56.30	1.71
Asta 1	4685.149	tr 50	68.68	126.21	127.84	127.84	128.23	0.011075	3.21	27.52	34.05	0.87
Asta 1	4685.149	tr 100	83.03	126.21	127.96	127.96	128.38	0.011003	3.38	31.75	37.95	0.88
Asta 1	4685.149	tr 200	97.63	126.21	128.07	128.07	128.52	0.010765	3.51	36.27	40.84	0.88
Asta 1	4685.149	tr 500	117.21	126.21	128.20	128.20	128.69	0.010807	3.70	41.70	43.77	0.89
Asta 1	4623.226	tr 50	68.68	125.85	126.93	127.02	127.37	0.018123	3.24	25.52	40.68	1.06
Asta 1	4623.226	tr 100	83.03	125.85	127.01	127.11	127.51	0.018835	3.49	28.76	41.79	1.10
Asta 1	4623.226	tr 200	97.63	125.85	127.08	127.19	127.64	0.019632	3.72	31.67	42.39	1.13
Asta 1	4623.226	tr 500	117.21	125.85	127.17	127.31	127.80	0.019848	3.95	35.74	43.44	1.16

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 1	4562.217	tr 50	68.68	124.48	125.51	125.64	125.98	0.029235	3.42	24.57	51.56	1.28
Asta 1	4562.217	tr 100	83.03	124.48	125.58	125.71	126.09	0.029007	3.61	28.02	52.67	1.30
Asta 1	4562.217	tr 200	97.63	124.48	125.64	125.78	126.20	0.028616	3.77	31.39	53.72	1.31
Asta 1	4562.217	tr 500	117.21	124.48	125.71	125.89	126.34	0.029004	4.01	35.33	54.91	1.33
Asta 1	4500	tr 50	68.68	123.51	125.28	124.85	125.42	0.003202	1.84	44.59	43.54	0.48
Asta 1	4500	tr 100	83.03	123.51	125.42	124.96	125.58	0.003178	1.96	51.09	45.55	0.49
Asta 1	4500	tr 200	97.63	123.51	125.54	125.04	125.72	0.003299	2.09	56.77	47.89	0.50
Asta 1	4500	tr 500	117.21	123.51	125.68	125.19	125.88	0.003508	2.26	63.47	50.26	0.52
Asta 1	4445.619	tr 50	68.68	123.21	124.72	124.72	125.09	0.012470	3.40	32.34	42.19	0.93
Asta 1	4445.619	tr 100	83.03	123.21	124.80	124.80	125.24	0.013636	3.70	35.91	43.36	0.98
Asta 1	4445.619	tr 200	97.63	123.21	124.95	124.95	125.38	0.012426	3.78	43.17	49.44	0.96
Asta 1	4445.619	tr 500	117.21	123.21	125.09	125.09	125.54	0.011765	3.89	50.25	51.51	0.94
Asta 1	4407.023	tr 50	68.68	122.34	123.93	124.03	124.42	0.024156	3.94	25.74	38.82	1.06
Asta 1	4407.023	tr 100	83.03	122.34	124.03	124.14	124.56	0.022897	4.03	30.01	40.31	1.05
Asta 1	4407.023	tr 200	97.63	122.34	124.10	124.23	124.71	0.024923	4.32	32.67	41.39	1.10
Asta 1	4407.023	tr 500	117.21	122.34	124.20	124.36	124.88	0.025250	4.54	37.11	43.33	1.12
Asta 1	4366.309	tr 50	68.68	121.39	122.96	123.03	123.42	0.025799	3.37	25.03	34.98	0.97
Asta 1	4366.309	tr 100	83.03	121.39	123.05	123.14	123.58	0.026584	3.59	28.19	36.04	1.00
Asta 1	4366.309	tr 200	97.63	121.39	123.17	123.24	123.72	0.023978	3.61	32.55	37.25	0.96
Asta 1	4366.309	tr 500	117.21	121.39	123.29	123.37	123.90	0.023132	3.75	37.23	38.40	0.96
Asta 1	4322.32	tr 50	68.68	120.66	122.09	122.13	122.49	0.017082	3.19	25.90	37.16	1.02
Asta 1	4322.32	tr 100	83.03	120.66	122.18	122.23	122.63	0.017137	3.39	29.32	37.88	1.04
Asta 1	4322.32	tr 200	97.63	120.66	122.24	122.33	122.77	0.019209	3.71	31.44	38.42	1.11
Asta 1	4322.32	tr 500	117.21	120.66	122.33	122.44	122.95	0.020259	4.00	34.89	39.26	1.15
Asta 1	4284.592	tr 50	68.68	120.18	121.48	121.50	121.87	0.015834	2.91	26.03	36.46	0.98
Asta 1	4284.592	tr 100	83.03	120.18	121.58	121.61	122.01	0.015495	3.09	29.75	37.42	0.98
Asta 1	4284.592	tr 200	97.63	120.18	121.69	121.71	122.15	0.014289	3.19	34.05	38.52	0.96
Asta 1	4284.592	tr 500	117.21	120.18	121.80	121.83	122.32	0.014622	3.43	38.19	39.58	0.99
Asta 1	4231.96	tr 50	68.68	119.28	120.49	120.55	120.88	0.023039	3.38	25.80	45.60	1.17
Asta 1	4231.96	tr 100	83.03	119.28	120.55	120.65	121.01	0.024359	3.64	28.67	46.53	1.21
Asta 1	4231.96	tr 200	97.63	119.28	120.60	120.73	121.14	0.026938	3.96	30.81	47.19	1.29
Asta 1	4231.96	tr 500	117.21	119.28	120.67	120.82	121.29	0.027262	4.20	34.56	48.14	1.31
Asta 1	4179.24	tr 50	68.68	118.35	119.74	119.74	120.07	0.015133	2.91	28.32	42.44	0.96
Asta 1	4179.24	tr 100	83.03	118.35	119.84	119.84	120.20	0.014679	3.07	32.65	44.45	0.96
Asta 1	4179.24	tr 200	97.63	118.35	119.93	119.93	120.32	0.014149	3.19	36.78	45.36	0.96
Asta 1	4179.24	tr 500	117.21	118.35	120.05	120.04	120.47	0.013364	3.31	42.14	46.16	0.95
Asta 1	4128.27	tr 50	68.68	117.79	119.32	119.11	119.53	0.007002	2.18	35.70	42.97	0.67
Asta 1	4128.27	tr 100	83.03	117.79	119.44	119.22	119.67	0.006886	2.32	40.80	44.43	0.68
Asta 1	4128.27	tr 200	97.63	117.79	119.54	119.31	119.80	0.006809	2.44	45.55	45.20	0.68
Asta 1	4128.27	tr 500	117.21	117.79	119.66	119.44	119.95	0.006981	2.62	50.94	46.05	0.70
Asta 1	4053.153	tr 50	68.68	117.24	118.41	118.41	118.79	0.013975	2.89	26.35	35.03	0.94
Asta 1	4053.153	tr 100	83.03	117.24	118.52	118.52	118.94	0.013608	3.07	30.31	36.62	0.94
Asta 1	4053.153	tr 200	97.63	117.24	118.62	118.62	119.08	0.013197	3.21	34.28	38.21	0.94
Asta 1	4053.153	tr 500	117.21	117.24	118.78	118.78	119.26	0.011972	3.32	40.38	40.85	0.91
Asta 1	3940.197	tr 50	68.68	116.22	117.61	117.14	117.72	0.002833	1.58	51.64	49.85	0.44
Asta 1	3940.197	tr 100	83.03	116.22	117.82	117.23	117.93	0.002416	1.61	61.97	51.27	0.42
Asta 1	3940.197	tr 200	97.63	116.22	118.01	117.32	118.13	0.002120	1.63	72.26	52.72	0.40
Asta 1	3940.197	tr 500	117.21	116.22	118.29	117.44	118.41	0.001749	1.64	87.15	54.49	0.37
Asta 1	3845.076	tr 50	68.68	114.46	116.36	116.36	117.04	0.028099	4.18	21.79	15.89	1.00
Asta 1	3845.076	tr 100	83.03	114.46	116.56	116.56	117.32	0.027476	4.42	25.00	16.51	1.00
Asta 1	3845.076	tr 200	97.63	114.46	116.77	116.77	117.57	0.025736	4.58	28.57	17.17	0.99
Asta 1	3845.076	tr 500	117.21	114.46	116.91	116.91	117.89	0.029025	5.07	31.11	18.87	1.06
Asta 1	3758.626	tr 50	68.68	113.58	115.60	114.95	115.71	0.004557	1.46	47.68	36.37	0.38
Asta 1	3758.626	tr 100	83.03	113.58	115.73	115.05	115.86	0.004875	1.61	52.43	37.03	0.40
Asta 1	3758.626	tr 200	97.63	113.58	115.85	115.16	116.00	0.005167	1.75	56.88	37.64	0.42
Asta 1	3758.626	tr 500	117.21	113.58	116.00	115.29	116.18	0.005511	1.91	62.43	38.41	0.44
Asta 1	3700	tr 50	68.68	113.87	115.03		115.22	0.018442	1.98	35.54	46.43	0.69
Asta 1	3700	tr 100	83.03	113.87	115.12		115.35	0.018873	2.13	39.91	47.31	0.70
Asta 1	3700	tr 200	97.63	113.87	115.21		115.47	0.019166	2.27	44.11	48.02	0.72
Asta 1	3700	tr 500	117.21	113.87	115.32		115.62	0.019557	2.44	49.33	48.89	0.73
Asta 1	3667.759	tr 50	68.68	113.14	114.54	114.42	114.74	0.012249	2.31	41.24	58.25	0.70
Asta 1	3667.759	tr 100	83.03	113.14	114.64	114.51	114.86	0.012298	2.44	46.68	59.13	0.71
Asta 1	3667.759	tr 200	97.63	113.14	114.72	114.59	114.97	0.012452	2.57	51.63	59.66	0.72
Asta 1	3667.759	tr 500	117.21	113.14	114.83	114.68	115.11	0.012482	2.71	58.22	60.84	0.73
Asta 1	3590.35	tr 50	68.68	112.19	113.26	113.26	113.59	0.017956	2.59	27.44	42.49	1.00
Asta 1	3590.35	tr 100	83.03	112.19	113.36	113.36	113.72	0.017441	2.72	31.52	44.17	1.00

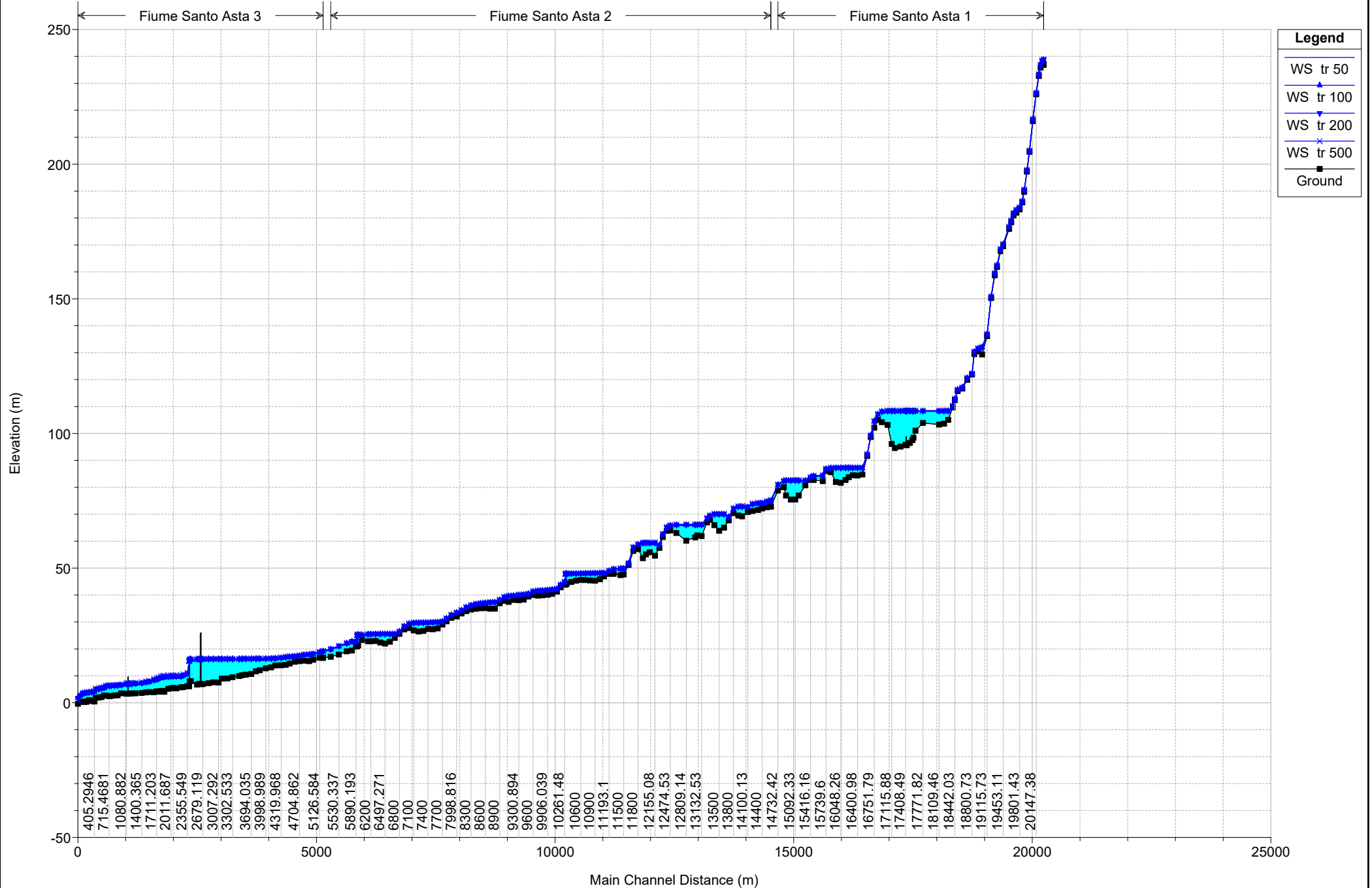
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Asta 1	3590.35	tr 200	97.63	112.19	113.44	113.44	113.84	0.016750	2.86	35.30	44.66	1.00
Asta 1	3590.35	tr 500	117.21	112.19	113.55	113.55	113.99	0.016263	3.05	39.93	45.25	1.00
Asta 1	3527.644	tr 50	68.68	110.46	111.37	111.52	111.96	0.038854	3.42	20.45	37.27	1.43
Asta 1	3527.644	tr 100	83.03	110.46	111.44	111.63	112.12	0.038446	3.67	23.10	37.77	1.45
Asta 1	3527.644	tr 200	97.63	110.46	111.51	111.73	112.27	0.038488	3.91	25.55	38.23	1.48
Asta 1	3527.644	tr 500	117.21	110.46	111.59	111.84	112.46	0.037653	4.18	28.89	39.12	1.49
Asta 1	3372.196	tr 50	68.68	108.38	109.26	109.26	109.59	0.016498	2.67	27.39	41.81	0.98
Asta 1	3372.196	tr 100	83.03	108.38	109.36	109.36	109.73	0.015491	2.81	31.73	43.81	0.97
Asta 1	3372.196	tr 200	97.63	108.38	109.46	109.46	109.85	0.014513	2.92	36.15	47.60	0.95
Asta 1	3372.196	tr 500	117.21	108.38	109.58	109.58	110.01	0.013430	3.05	42.21	51.28	0.94
Asta 1	3276.358	tr 50	68.68	106.40	107.95	107.75	108.16	0.006407	2.51	35.75	39.44	0.67
Asta 1	3276.358	tr 100	83.03	106.40	108.08	107.85	108.30	0.006303	2.63	40.75	40.40	0.68
Asta 1	3276.358	tr 200	97.63	106.40	108.20	107.93	108.45	0.006147	2.74	45.74	41.28	0.68
Asta 1	3276.358	tr 500	117.21	106.40	108.35	108.05	108.62	0.005970	2.86	52.12	42.35	0.68
Asta 1	3200	tr 50	68.68	105.75	107.34		107.61	0.007895	2.79	31.95	36.18	0.75
Asta 1	3200	tr 100	83.03	105.75	107.45		107.76	0.008039	2.96	36.07	36.89	0.76
Asta 1	3200	tr 200	97.63	105.75	107.55		107.89	0.008412	3.15	39.60	37.49	0.79
Asta 1	3200	tr 500	117.21	105.75	107.66		108.06	0.008861	3.39	44.04	38.40	0.82
Asta 1	3151.31	tr 50	68.68	105.62	106.73	106.73	107.09	0.014525	3.02	27.26	37.70	0.96
Asta 1	3151.31	tr 100	83.03	105.62	106.84	106.84	107.23	0.014409	3.21	31.14	39.21	0.97
Asta 1	3151.31	tr 200	97.63	105.62	106.94	106.94	107.37	0.013862	3.34	35.20	40.39	0.97
Asta 1	3151.31	tr 500	117.21	105.62	107.06	107.06	107.53	0.013487	3.50	40.07	41.28	0.97
Asta 1	2947.022	tr 50	68.68	102.95	104.19	104.19	104.49	0.011160	2.90	31.86	54.63	0.86
Asta 1	2947.022	tr 100	83.03	102.95	104.28	104.35	104.62	0.011319	3.08	37.90	64.72	0.88
Asta 1	2947.022	tr 200	97.63	102.95	104.35	104.42	104.72	0.012022	3.29	42.29	69.19	0.92
Asta 1	2947.022	tr 500	117.21	102.95	104.42	104.49	104.83	0.012809	3.51	47.17	70.24	0.95
Asta 1	2821.32	tr 50	68.68	101.32	102.11	102.19	102.47	0.025178	2.79	27.01	62.38	1.20
Asta 1	2821.32	tr 100	83.03	101.32	102.17	102.26	102.57	0.025209	2.98	30.70	64.42	1.22
Asta 1	2821.32	tr 200	97.63	101.32	102.42	102.33	102.65	0.009348	2.28	48.09	73.67	0.79
Asta 1	2821.32	tr 500	117.21	101.32	102.32	102.41	102.77	0.021595	3.20	40.88	69.77	1.17
Asta 1	2742.115	tr 50	68.68	99.60	101.31	101.31	101.57	0.011303	3.22	34.07	56.54	0.86
Asta 1	2742.115	tr 100	83.03	99.60	101.37	101.37	101.67	0.012256	3.46	37.77	57.95	0.90
Asta 1	2742.115	tr 200	97.63	99.60	101.44	101.44	101.77	0.012801	3.64	41.85	60.79	0.93
Asta 1	2742.115	tr 500	117.21	99.60	101.55	101.55	101.89	0.011822	3.66	48.72	63.85	0.90
Asta 1	2651.991	tr 50	68.68	98.60	99.52	99.70	100.05	0.026070	3.35	22.91	43.05	1.23
Asta 1	2651.991	tr 100	83.03	98.60	99.63	99.78	100.16	0.022989	3.43	27.81	50.16	1.18
Asta 1	2651.991	tr 200	97.63	98.60	99.71	99.86	100.27	0.021475	3.53	32.30	52.88	1.16
Asta 1	2651.991	tr 500	117.21	98.60	99.79	99.96	100.42	0.022583	3.81	36.13	53.70	1.20
Asta 1	2570.226	tr 50	68.68	97.71	99.04	98.75	99.21	0.004918	1.88	41.08	53.31	0.57
Asta 1	2570.226	tr 100	83.03	97.71	99.19	98.86	99.36	0.004348	1.92	49.12	55.36	0.55
Asta 1	2570.226	tr 200	97.63	97.71	99.31	99.00	99.49	0.004215	2.01	56.24	60.39	0.55
Asta 1	2570.226	tr 500	117.21	97.71	99.48	99.11	99.67	0.003806	2.07	66.76	64.42	0.53
Asta 1	2500	tr 50	68.68	97.12	98.42		98.73	0.009116	2.63	29.79	34.52	0.78
Asta 1	2500	tr 100	83.03	97.12	98.56	98.42	98.91	0.009140	2.84	34.90	37.99	0.80
Asta 1	2500	tr 200	97.63	97.12	98.67	98.43	99.06	0.009100	2.99	39.07	38.74	0.81
Asta 1	2500	tr 500	117.21	97.12	98.76	98.71	99.22	0.010334	3.32	42.38	39.33	0.87
Asta 1	2400	tr 50	68.68	95.63	97.45	97.45	97.78	0.009972	3.41	30.79	40.56	0.85
Asta 1	2400	tr 100	83.03	95.63	97.53	97.53	97.91	0.010954	3.70	34.12	41.64	0.90
Asta 1	2400	tr 200	97.63	95.63	97.62	97.62	98.04	0.011353	3.89	37.98	43.28	0.92
Asta 1	2400	tr 500	117.21	95.63	97.81	97.81	98.20	0.009760	3.85	47.06	53.69	0.87
Asta 1	2300	tr 50	68.68	95.03	96.00	96.05	96.44	0.018470	3.01	23.82	32.48	1.05
Asta 1	2300	tr 100	83.03	95.03	96.17	96.15	96.60	0.013697	2.95	29.78	34.53	0.93
Asta 1	2300	tr 200	97.63	95.03	96.28	96.27	96.74	0.013211	3.10	33.52	35.42	0.93
Asta 1	2300	tr 500	117.21	95.03	96.33	96.40	96.93	0.016309	3.54	35.28	35.78	1.04
Asta 1	2223.941	tr 50	68.68	93.74	95.68	95.26	95.83	0.004022	2.16	40.01	35.70	0.53
Asta 1	2223.941	tr 100	83.03	93.74	95.84		96.01	0.003985	2.28	46.48	43.35	0.53
Asta 1	2223.941	tr 200	97.63	93.74	95.98		96.17	0.003842	2.35	52.80	44.46	0.53
Asta 1	2223.941	tr 500	117.21	93.74	96.16	95.61	96.36	0.003690	2.44	60.85	45.82	0.53
Asta 1	2100	tr 50	68.68	93.08	95.40		95.50	0.001772	1.52	49.14	34.50	0.37
Asta 1	2100	tr 100	83.03	93.08	95.54		95.67	0.001939	1.68	54.05	35.07	0.39
Asta 1	2100	tr 200	97.63	93.08	95.66		95.82	0.002112	1.83	58.47	35.57	0.41
Asta 1	2100	tr 500	117.21	93.08	95.82		96.00	0.002303	2.00	64.09	36.20	0.43
Asta 1	2027.99	tr 50	68.68	93.46	94.87	94.87	95.21	0.011782	3.20	29.23	38.34	0.90
Asta 1	2027.99	tr 100	83.03	93.46	94.96	94.96	95.35	0.012321	3.43	32.81	39.12	0.93
Asta 1	2027.99	tr 200	97.63	93.46	95.06	95.06	95.49	0.012144	3.56	36.81	39.81	0.93
Asta 1	2027.99	tr 500	117.21	93.46	95.17	95.17	95.65	0.012461	3.79	41.21	40.31	0.96

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 1	1963.262	tr 50	68.68	91.60	92.50	92.84	93.66	0.060211	5.34	15.63	29.43	1.88
Asta 1	1963.262	tr 100	83.03	91.60	92.59	92.96	93.80	0.054985	5.48	18.35	30.15	1.83
Asta 1	1963.262	tr 200	97.63	91.60	92.67	93.07	93.96	0.052900	5.68	20.73	30.67	1.82
Asta 1	1963.262	tr 500	117.21	91.60	92.78	93.20	94.13	0.048729	5.84	24.09	31.43	1.78
Asta 1	1900	tr 50	68.68	90.95	92.16	92.16	92.53	0.013008	2.89	27.28	37.25	0.91
Asta 1	1900	tr 100	83.03	90.95	92.28	92.28	92.68	0.012248	3.02	31.80	39.26	0.90
Asta 1	1900	tr 200	97.63	90.95	92.38	92.38	92.81	0.012225	3.18	35.57	40.22	0.91
Asta 1	1900	tr 500	117.21	90.95	92.49	92.49	92.98	0.012158	3.37	40.40	41.45	0.93
Asta 1	1800	tr 50	68.68	90.24	91.57	91.28	91.68	0.003865	1.65	49.62	62.72	0.50
Asta 1	1800	tr 100	83.03	90.24	91.69	91.37	91.81	0.003651	1.72	57.26	64.08	0.50
Asta 1	1800	tr 200	97.63	90.24	91.79	91.44	91.92	0.003723	1.82	63.21	64.96	0.51
Asta 1	1800	tr 500	117.21	90.24	91.91	91.52	92.06	0.003701	1.93	71.32	66.13	0.51
Asta 1	1720.279	tr 50	68.68	89.33	90.90	90.90	91.19	0.010045	2.85	32.35	48.63	0.82
Asta 1	1720.279	tr 100	83.03	89.33	90.98	90.98	91.32	0.010945	3.10	36.40	52.22	0.87
Asta 1	1720.279	tr 200	97.63	89.33	91.08	91.08	91.43	0.010488	3.18	41.65	54.44	0.86
Asta 1	1720.279	tr 500	117.21	89.33	91.18	91.18	91.57	0.010694	3.37	47.22	56.52	0.88
Asta 1	1600	tr 50	68.68	87.71	90.42	89.71	90.47	0.001057	1.00	70.53	61.28	0.28
Asta 1	1600	tr 100	83.03	87.71	90.54	89.79	90.60	0.001130	1.09	78.05	62.13	0.30
Asta 1	1600	tr 200	97.63	87.71	90.66	89.86	90.73	0.001181	1.18	85.46	62.96	0.31
Asta 1	1600	tr 500	117.21	87.71	90.81	89.95	90.89	0.001224	1.27	95.11	64.05	0.32
Asta 1	1500	tr 50	68.68	87.28	90.42	88.39	90.43	0.000118	0.54	129.12	59.69	0.11
Asta 1	1500	tr 100	83.03	87.28	90.54	88.49	90.56	0.000146	0.61	136.35	60.57	0.13
Asta 1	1500	tr 200	97.63	87.28	90.65	88.59	90.68	0.000173	0.69	143.49	61.41	0.14
Asta 1	1500	tr 500	117.21	87.28	90.80	88.70	90.84	0.000207	0.78	152.79	62.43	0.15
Asta 1	1430.181	tr 50	68.68	86.31	90.42	87.38	90.42	0.000038	0.29	236.78	111.22	0.06
Asta 1	1430.181	tr 100	83.03	86.31	90.54	87.50	90.55	0.000047	0.33	250.38	112.15	0.07
Asta 1	1430.181	tr 200	97.63	86.31	90.66	87.61	90.67	0.000055	0.37	263.69	112.72	0.08
Asta 1	1430.181	tr 500	117.21	86.31	90.81	87.75	90.82	0.000065	0.42	280.92	113.45	0.08
Asta 1	1338.802	tr 50	68.68	85.47	90.42	86.29	90.42	0.000008	0.17	398.14	107.49	0.03
Asta 1	1338.802	tr 100	83.03	85.47	90.54	86.39	90.54	0.000011	0.20	411.28	108.35	0.03
Asta 1	1338.802	tr 200	97.63	85.47	90.66	86.46	90.66	0.000014	0.23	424.18	109.18	0.04
Asta 1	1338.802	tr 500	117.21	85.47	90.81	86.56	90.82	0.000018	0.27	440.91	110.46	0.04
Asta 1	1252.844	tr 50	68.68	84.31	90.42	85.07	90.42	0.000001	0.08	849.94	182.85	0.01
Asta 1	1252.844	tr 100	83.03	84.31	90.54	85.12	90.54	0.000002	0.10	872.30	183.77	0.01
Asta 1	1252.844	tr 200	97.63	84.31	90.66	85.17	90.66	0.000002	0.11	894.19	184.75	0.02
Asta 1	1252.844	tr 500	117.21	84.31	90.81	85.23	90.82	0.000003	0.13	922.53	186.13	0.02
Asta 1	1082.734	tr 50	68.68	82.09	90.42	83.49	90.42	0.000003	0.12	556.54	116.88	0.02
Asta 1	1082.734	tr 100	83.03	82.09	90.54	83.59	90.54	0.000004	0.15	570.87	119.19	0.02
Asta 1	1082.734	tr 200	97.63	82.09	90.66	83.70	90.66	0.000005	0.17	585.18	121.64	0.02
Asta 1	1082.734	tr 500	117.21	82.09	90.81	83.83	90.81	0.000007	0.20	603.81	122.97	0.03
Asta 1	988.4713	tr 50	68.68	81.40	90.42	82.68	90.42	0.000005	0.11	621.88	123.68	0.01
Asta 1	988.4713	tr 100	83.03	81.40	90.54	82.76	90.54	0.000007	0.13	637.22	126.85	0.02
Asta 1	988.4713	tr 200	97.63	81.40	90.66	82.84	90.66	0.000009	0.15	652.33	128.44	0.02
Asta 1	988.4713	tr 500	117.21	81.40	90.81	82.94	90.81	0.000012	0.18	672.06	131.02	0.02
Asta 1	871.6832	tr 50	68.68	87.91	90.34		90.41	0.002259	1.16	59.89	38.87	0.29
Asta 1	871.6832	tr 100	83.03	87.91	90.44		90.53	0.002704	1.32	63.79	39.60	0.32
Asta 1	871.6832	tr 200	97.63	87.91	90.54		90.65	0.003117	1.46	67.59	40.29	0.34
Asta 1	871.6832	tr 500	117.21	87.91	90.66		90.79	0.003609	1.64	72.51	41.10	0.37
Asta 1	790.766	tr 50	68.68	85.55	90.32		90.33	0.000409	0.47	146.85	44.56	0.08
Asta 1	790.766	tr 100	83.03	85.55	90.41		90.42	0.000548	0.55	150.91	44.81	0.10
Asta 1	790.766	tr 200	97.63	85.55	90.50		90.52	0.000699	0.63	154.79	45.05	0.11
Asta 1	790.766	tr 500	117.21	85.55	90.60		90.63	0.000913	0.73	159.70	45.34	0.12
Asta 1	700	tr 50	68.68	89.48	90.06	90.06	90.21	0.014700	1.88	43.37	133.56	0.86
Asta 1	700	tr 100	83.03	89.48	90.09	90.09	90.27	0.015547	2.04	48.51	136.03	0.90
Asta 1	700	tr 200	97.63	89.48	90.13	90.13	90.33	0.015658	2.15	54.08	138.66	0.91
Asta 1	700	tr 500	117.21	89.48	90.19	90.19	90.40	0.015648	2.27	61.27	141.98	0.92
Asta 1	583.3978	tr 50	68.68	81.49	81.73	82.07	84.36	0.861509	7.24	9.72	62.29	5.54
Asta 1	583.3978	tr 100	83.03	81.49	81.76	82.12	84.48	0.727277	7.39	11.62	65.54	5.22
Asta 1	583.3978	tr 200	97.63	81.49	81.78	82.18	84.60	0.639729	7.55	13.51	68.58	5.01
Asta 1	583.3978	tr 500	117.21	81.49	81.82	82.25	84.77	0.561730	7.77	15.95	72.37	4.80
Asta 1	500	tr 50	68.68	77.94	78.82	78.57	78.89	0.003750	1.33	59.78	101.97	0.47
Asta 1	500	tr 100	83.03	77.94	78.95	78.63	79.02	0.003032	1.32	73.54	109.13	0.44
Asta 1	500	tr 200	97.63	77.94	79.07	78.68	79.14	0.002601	1.33	86.99	115.69	0.41
Asta 1	500	tr 500	117.21	77.94	79.21	78.76	79.29	0.002232	1.34	104.32	122.94	0.39
Asta 1	400	tr 50	68.68	77.14	78.73		78.76	0.000595	0.79	105.06	106.48	0.21
Asta 1	400	tr 100	83.03	77.14	78.86		78.89	0.000610	0.84	119.45	112.18	0.21
Asta 1	400	tr 200	97.63	77.14	78.98		79.02	0.000623	0.89	133.32	117.21	0.22

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 1	400	tr 500	117.21	77.14	79.13		79.17	0.000637	0.95	150.91	123.03	0.22
Asta 1	300	tr 50	68.68	77.09	78.60		78.66	0.001493	1.18	67.46	71.47	0.32
Asta 1	300	tr 100	83.03	77.09	78.73		78.80	0.001544	1.28	76.50	75.38	0.33
Asta 1	300	tr 200	97.63	77.09	78.84		78.92	0.001591	1.36	85.22	79.14	0.34
Asta 1	300	tr 500	117.21	77.09	78.98		79.06	0.001643	1.46	96.36	83.80	0.35
Asta 1	235.7328	tr 50	68.68	77.11	78.41		78.52	0.003257	1.60	49.63	59.23	0.47
Asta 1	235.7328	tr 100	83.03	77.11	78.52		78.65	0.003330	1.71	56.44	62.42	0.48
Asta 1	235.7328	tr 200	97.63	77.11	78.63		78.77	0.003403	1.82	62.97	65.32	0.49
Asta 1	235.7328	tr 500	117.21	77.11	78.75		78.91	0.003489	1.95	71.26	68.83	0.51
Asta 1	153.9734	tr 50	68.68	76.86	78.08	77.79	78.21	0.004435	1.75	45.15	59.36	0.54
Asta 1	153.9734	tr 100	83.03	76.86	78.17	77.88	78.33	0.004699	1.90	50.72	62.35	0.56
Asta 1	153.9734	tr 200	97.63	76.86	78.25	77.97	78.43	0.004963	2.04	55.93	65.03	0.58
Asta 1	153.9734	tr 500	117.21	76.86	78.35	78.08	78.56	0.005225	2.21	62.69	68.15	0.61
Asta 1	92.28677	tr 50	68.68	76.59	77.47	77.47	77.75	0.014457	2.57	32.31	61.97	0.92
Asta 1	92.28677	tr 100	83.03	76.59	77.56	77.56	77.85	0.013776	2.69	37.87	66.74	0.92
Asta 1	92.28677	tr 200	97.63	76.59	77.64	77.64	77.95	0.013214	2.79	43.29	70.52	0.91
Asta 1	92.28677	tr 500	117.21	76.59	77.73	77.73	78.06	0.013101	2.94	49.53	73.98	0.92

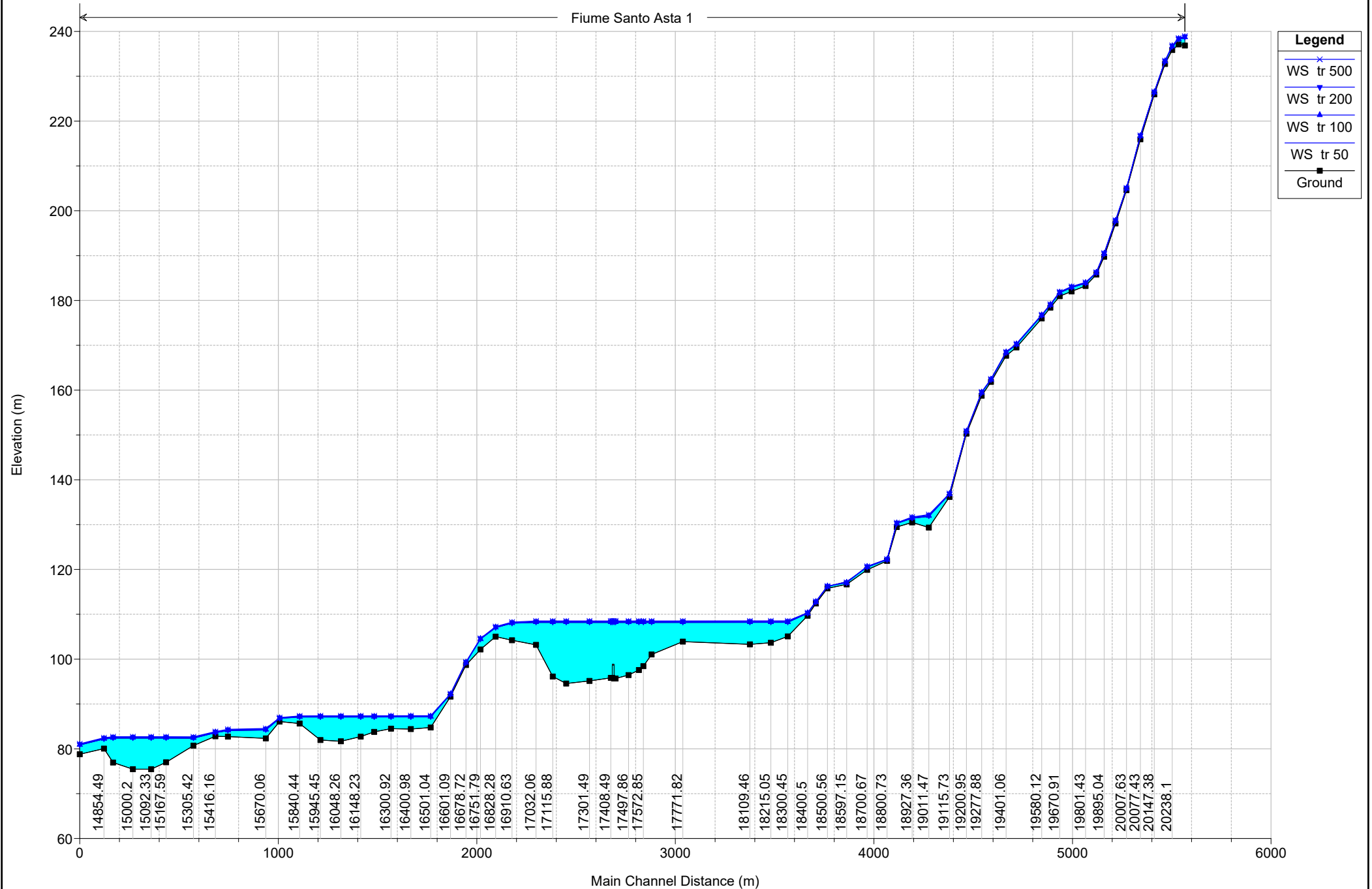
fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



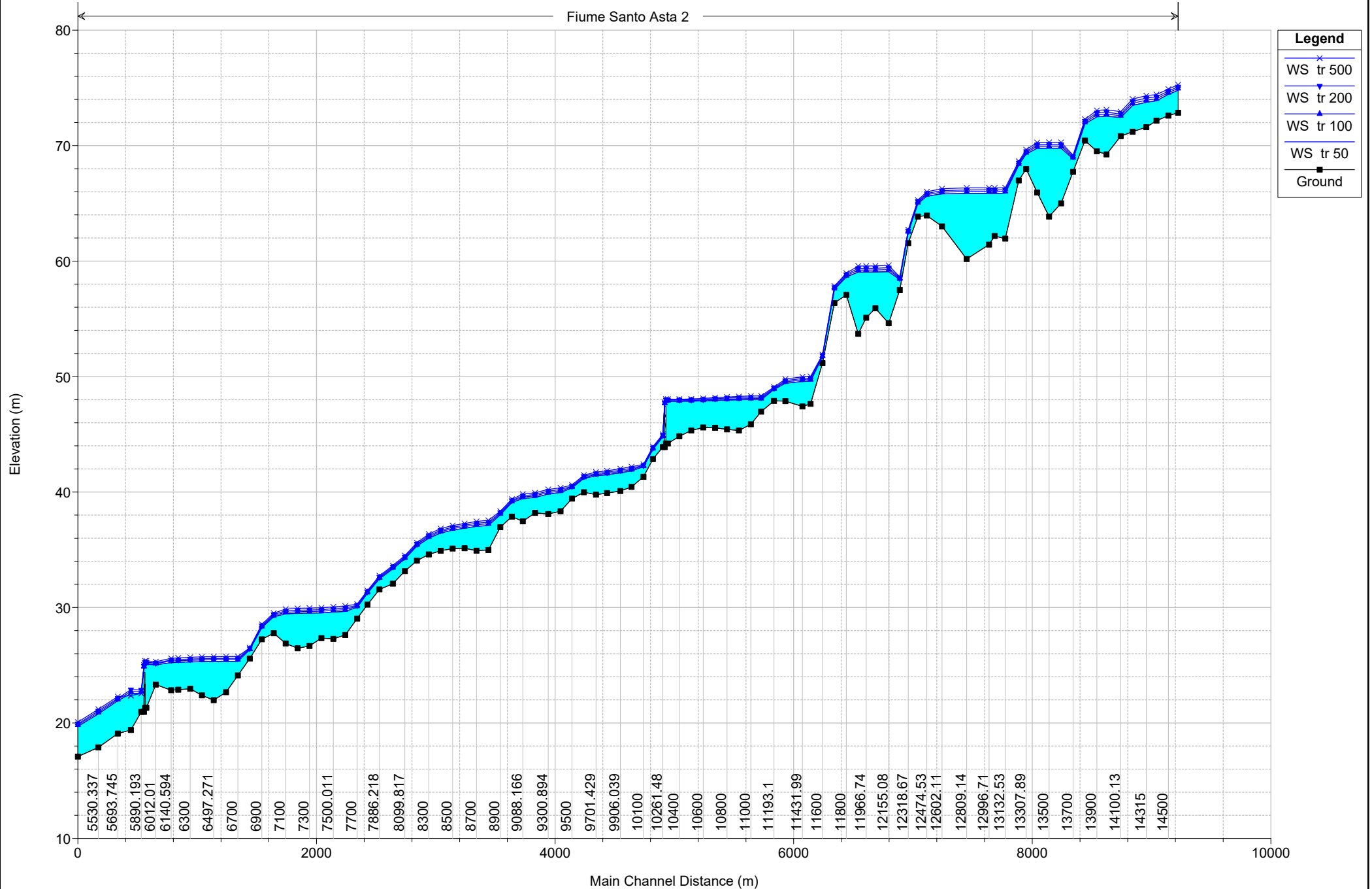
fiumesanto22022017 Plan: Plan 02 2/9/2021

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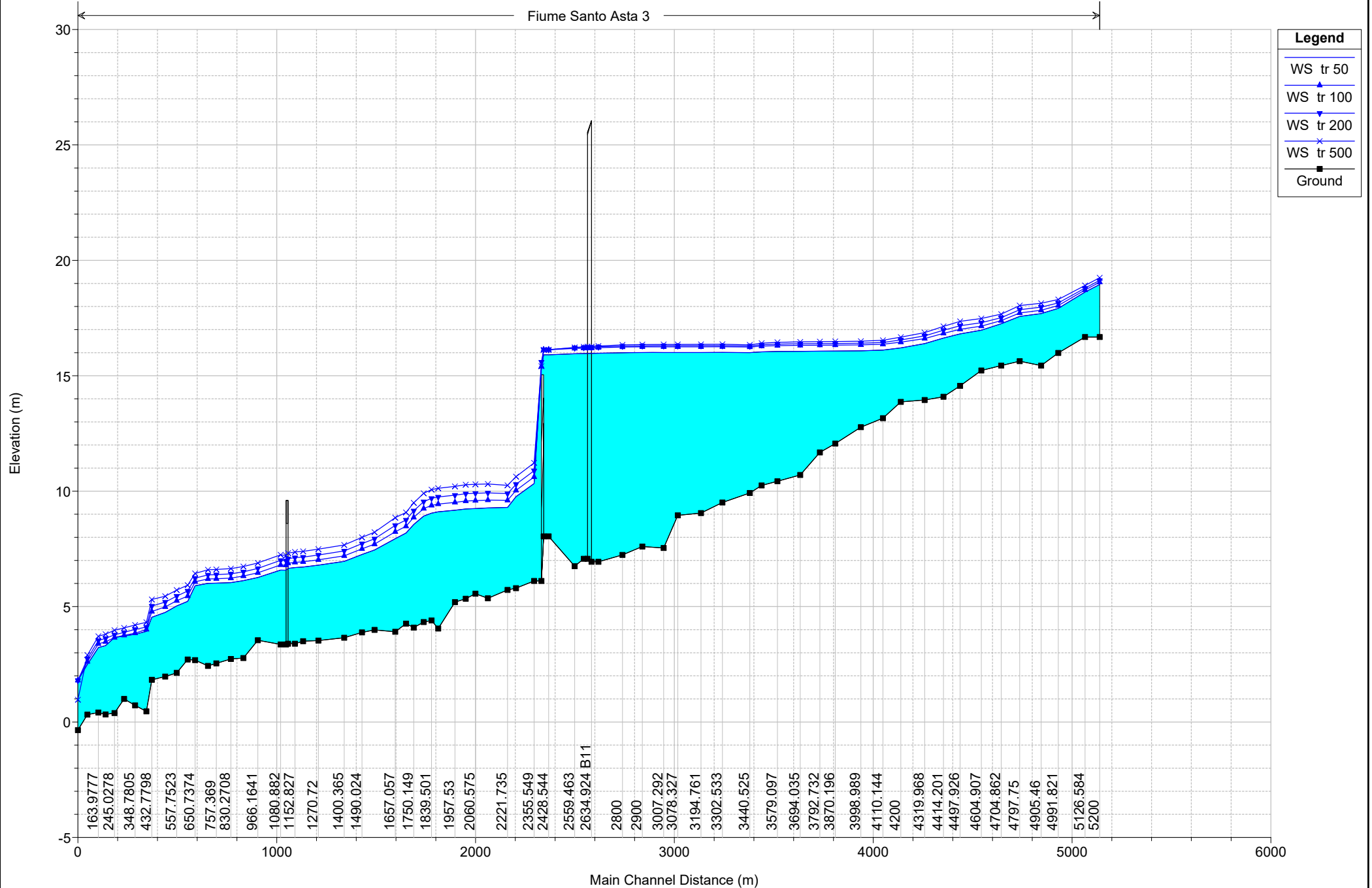


fiumesanto22022017 Plan: Plan 02 2/9/2021

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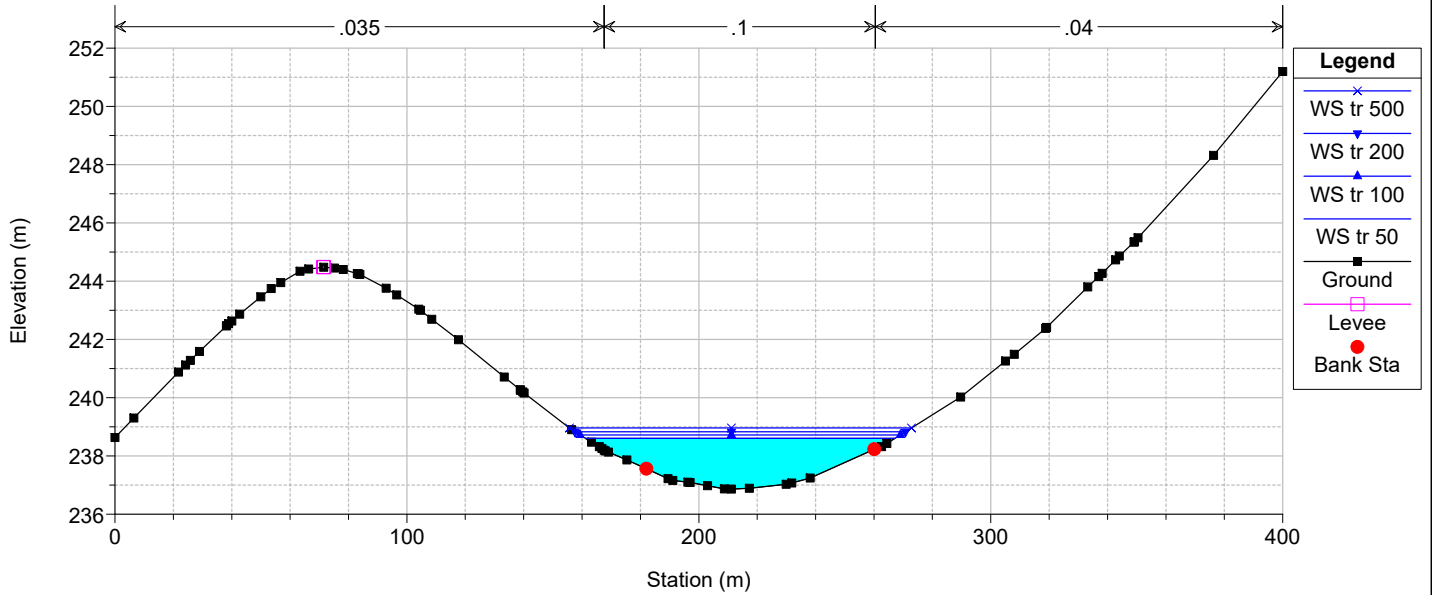
Fiume Santo Asta 3



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

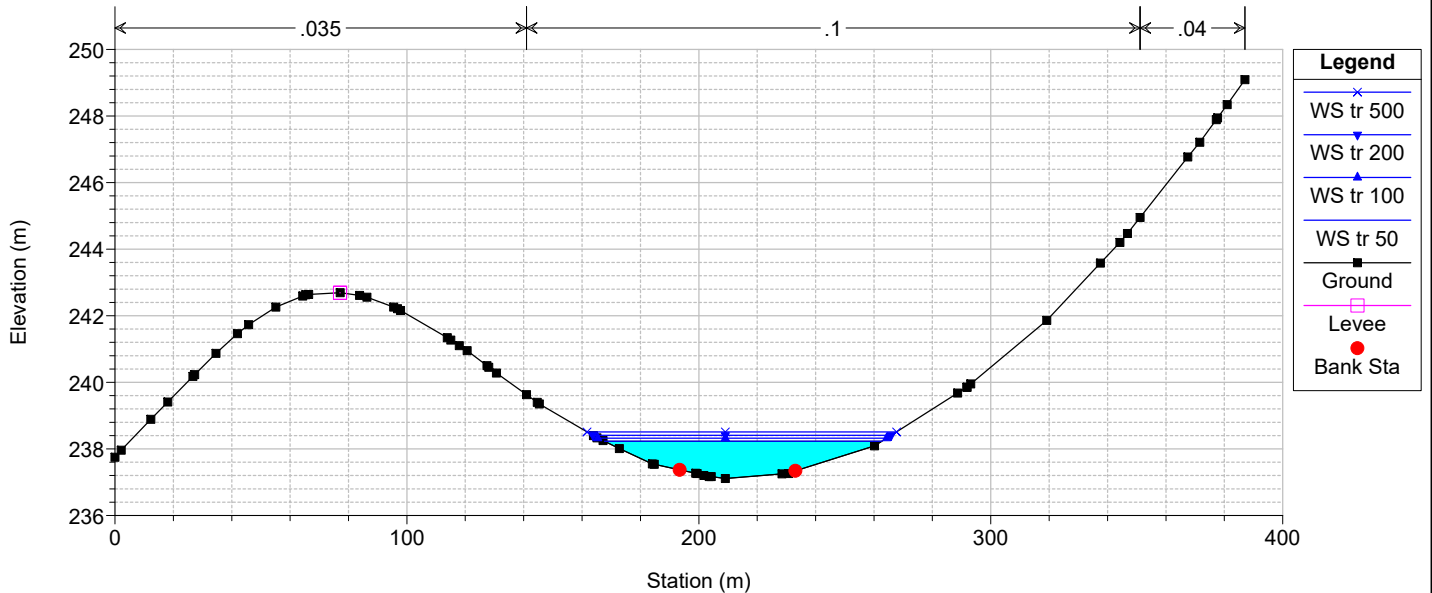
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

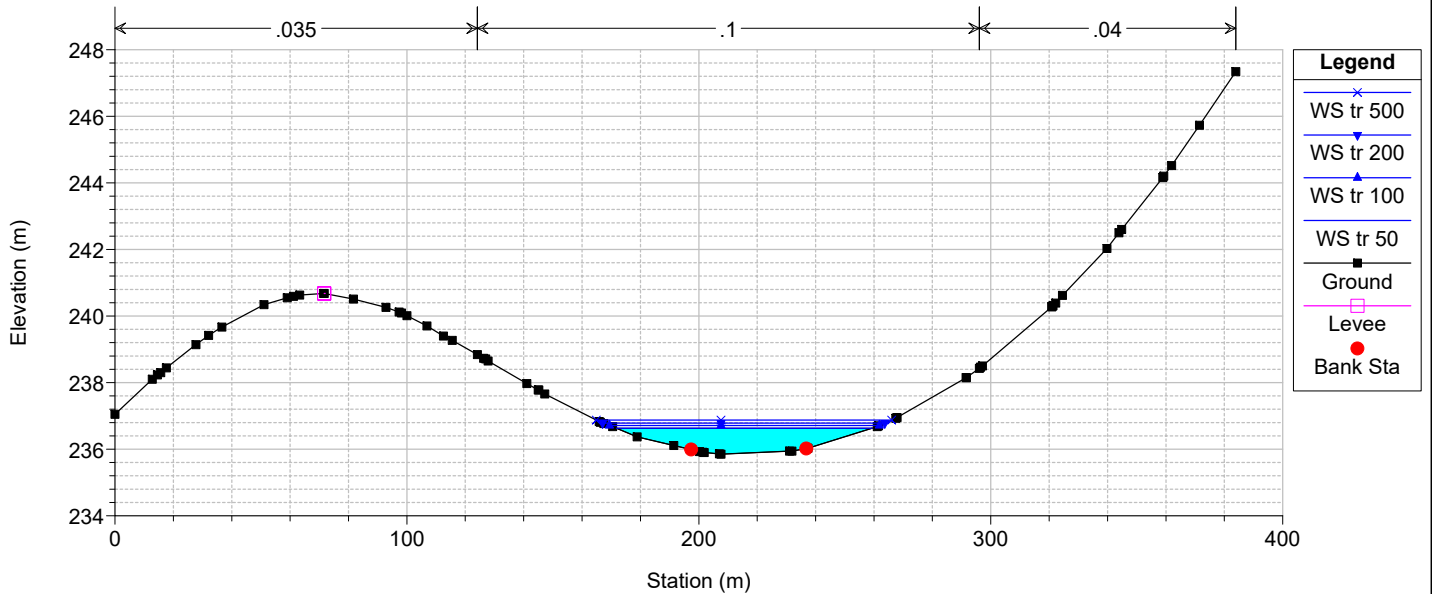
River = Fiume Santo Reach = Asta 1 RS = 20269.91 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

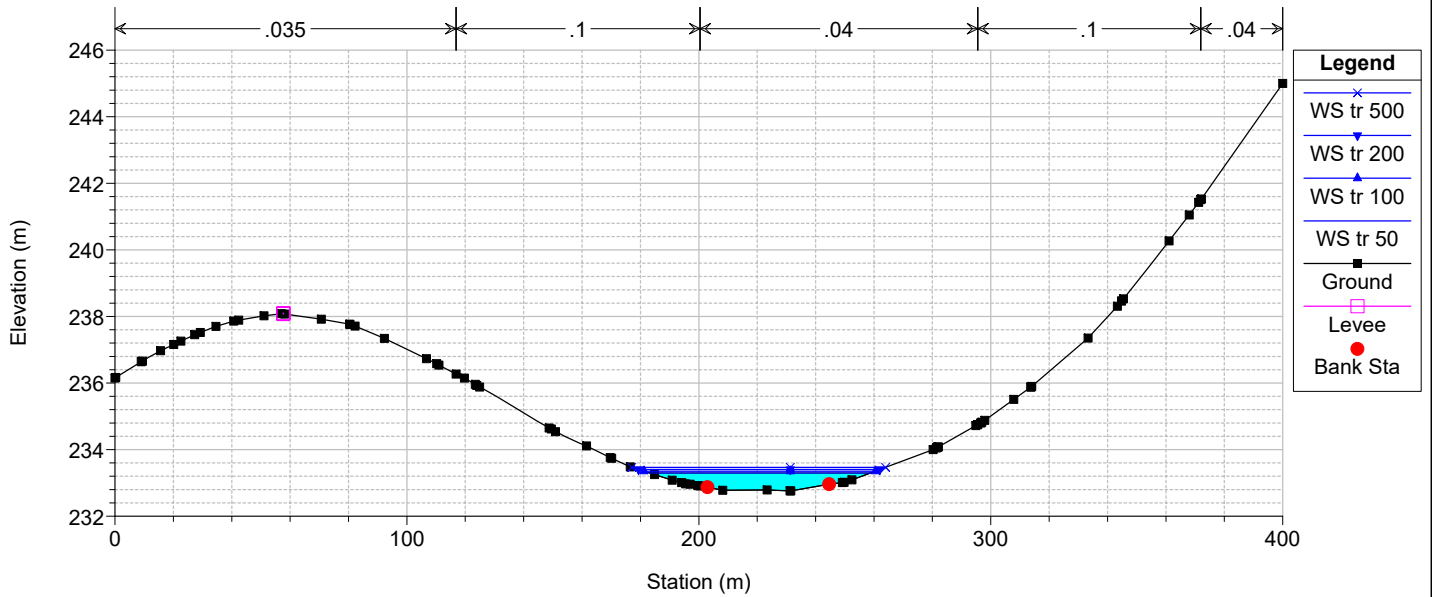
River = Fiume Santo Reach = Asta 1 RS = 20238.1 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

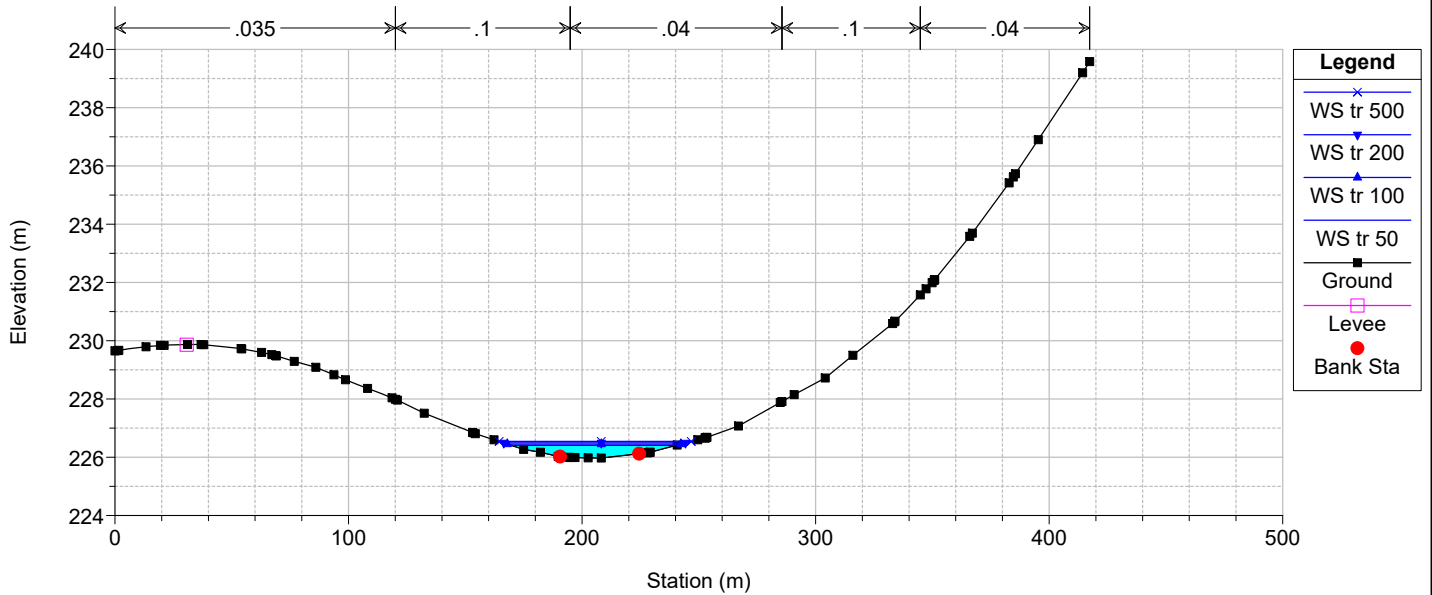
River = Fiume Santo Reach = Asta 1 RS = 20201.51 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

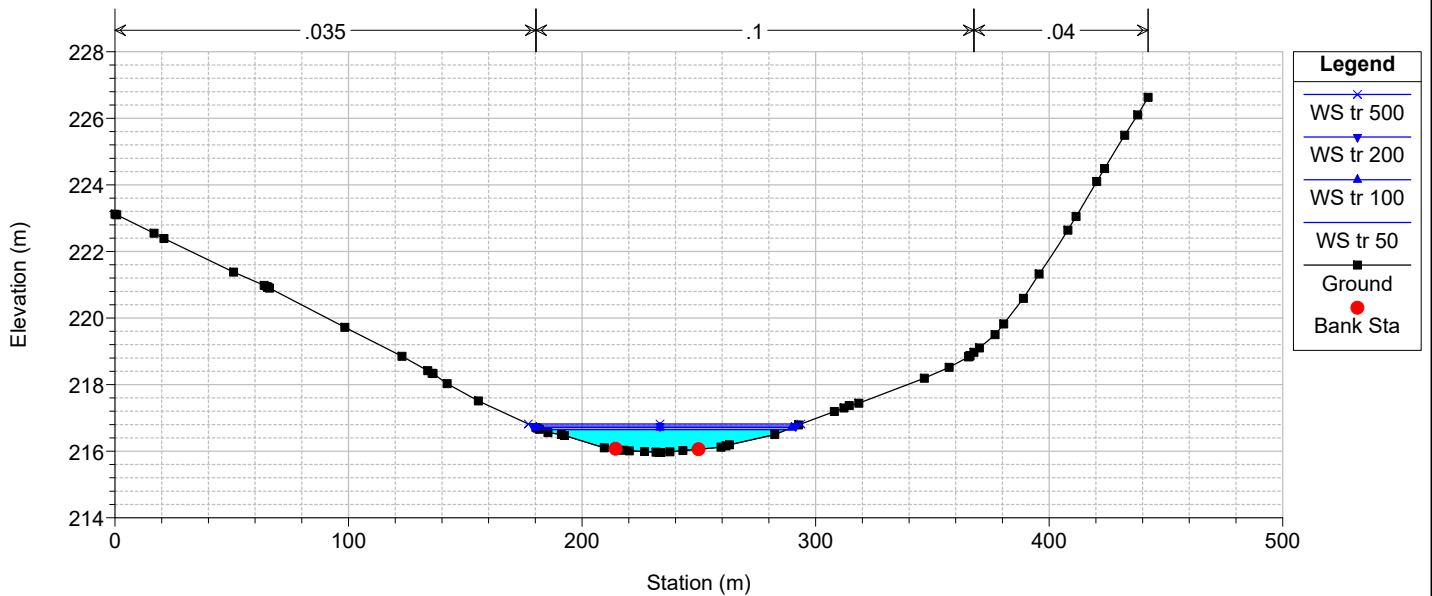
River = Fiume Santo Reach = Asta 1 RS = 20147.38 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

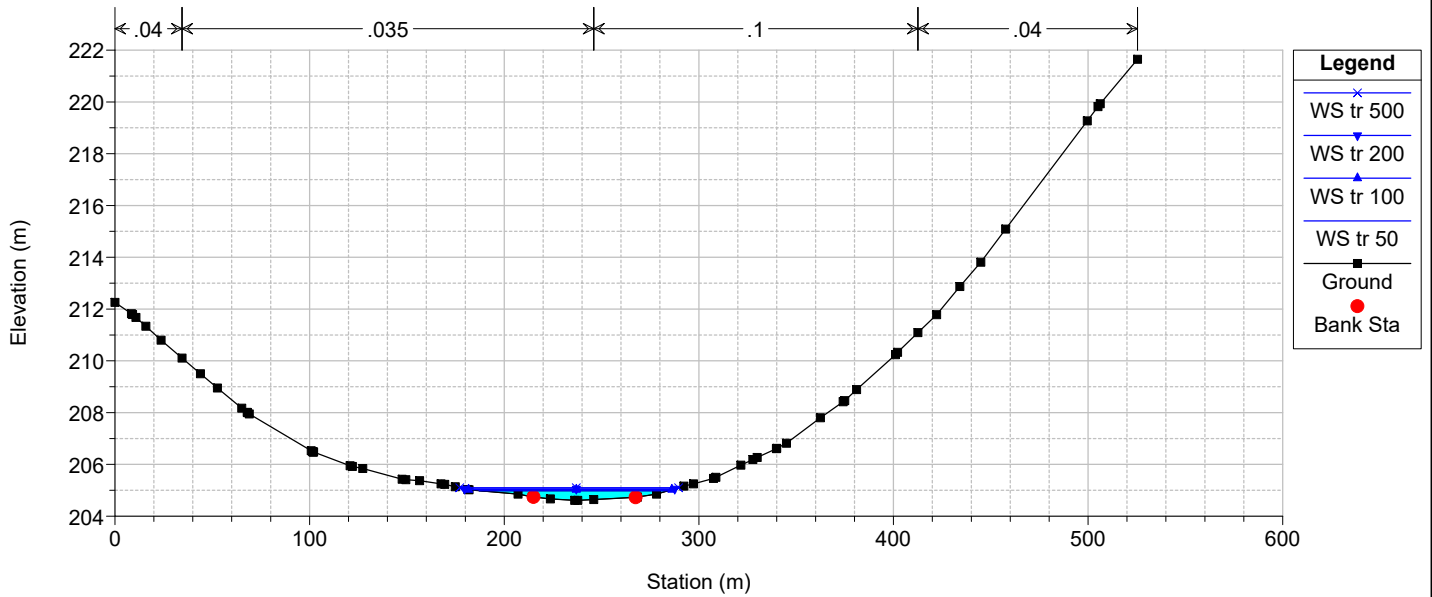
River = Fiume Santo Reach = Asta 1 RS = 20077.43 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

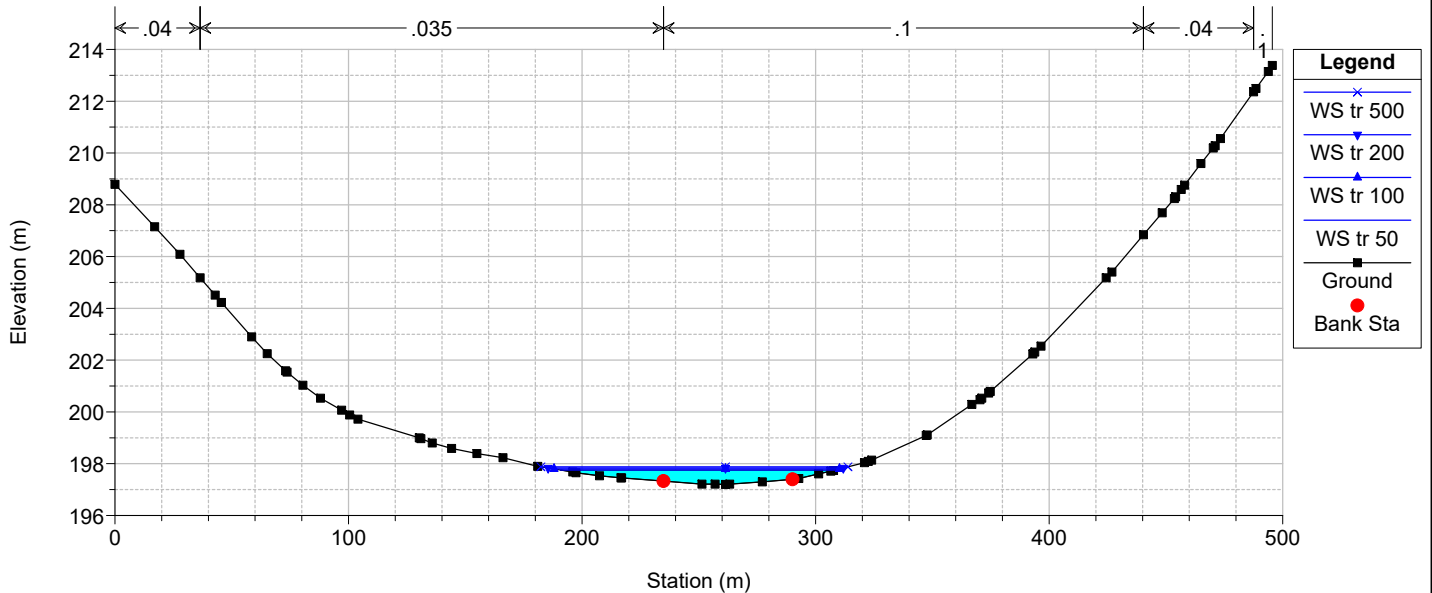
River = Fiume Santo Reach = Asta 1 RS = 20007.63 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

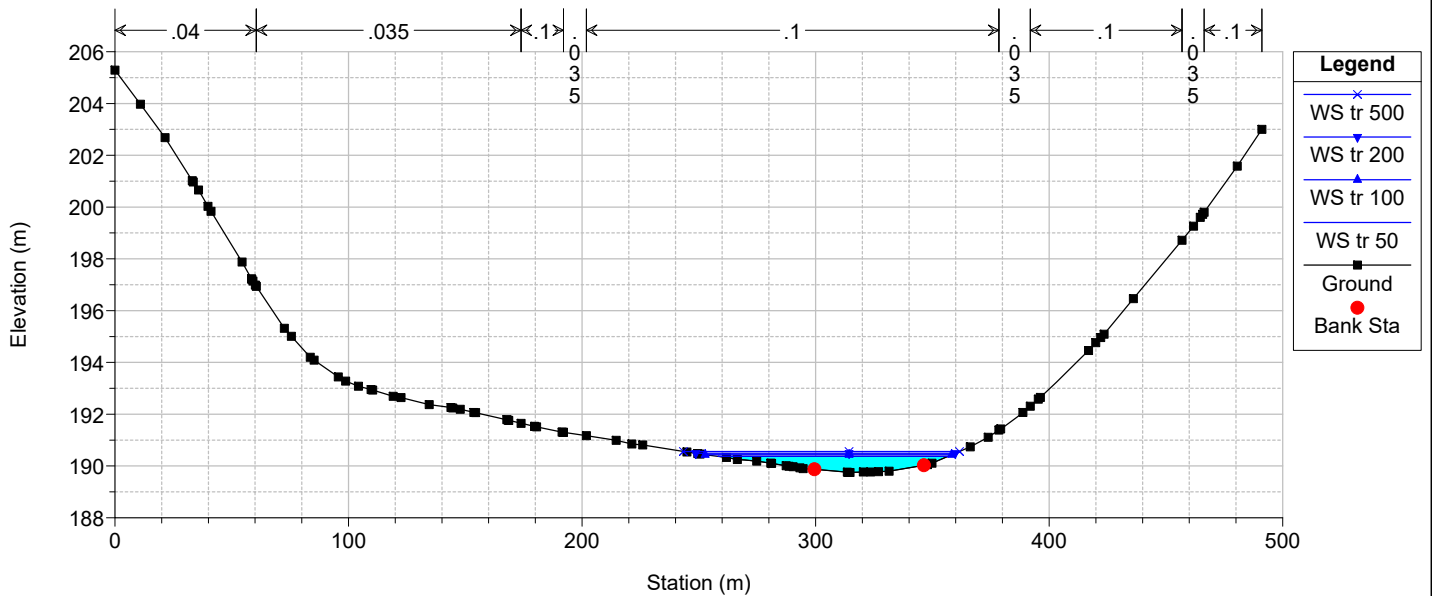
River = Fiume Santo Reach = Asta 1 RS = 19952.42 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

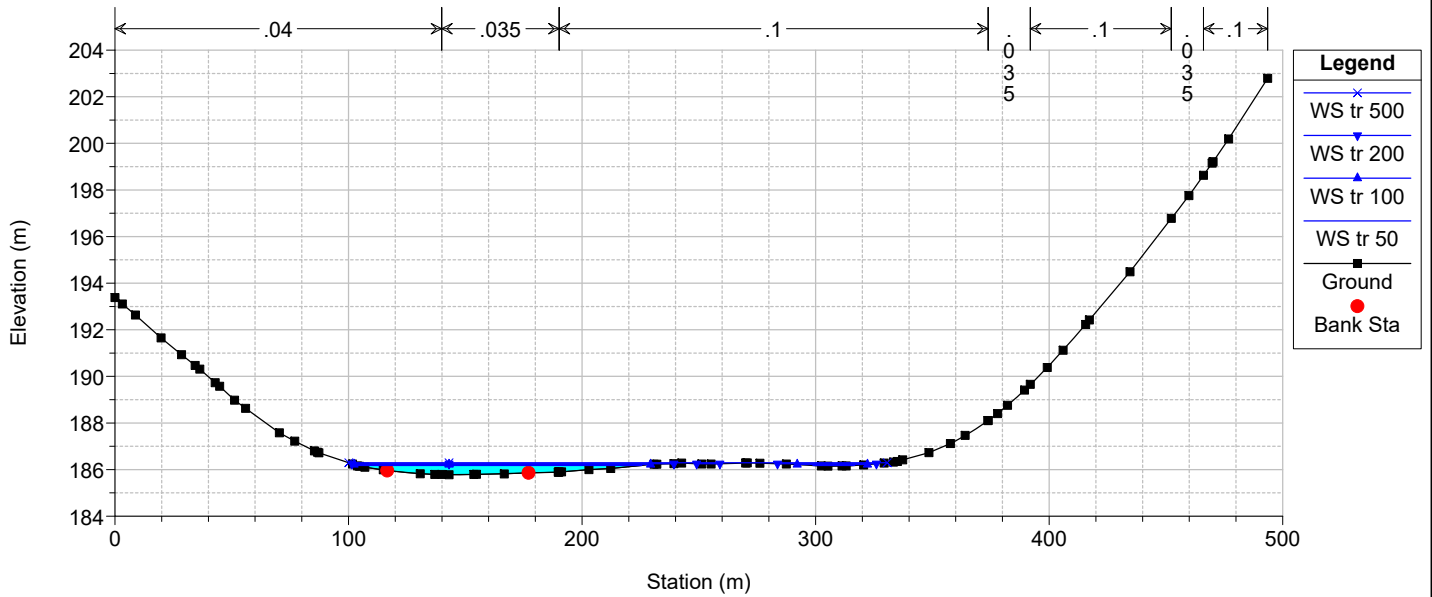
River = Fiume Santo Reach = Asta 1 RS = 19895.04 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

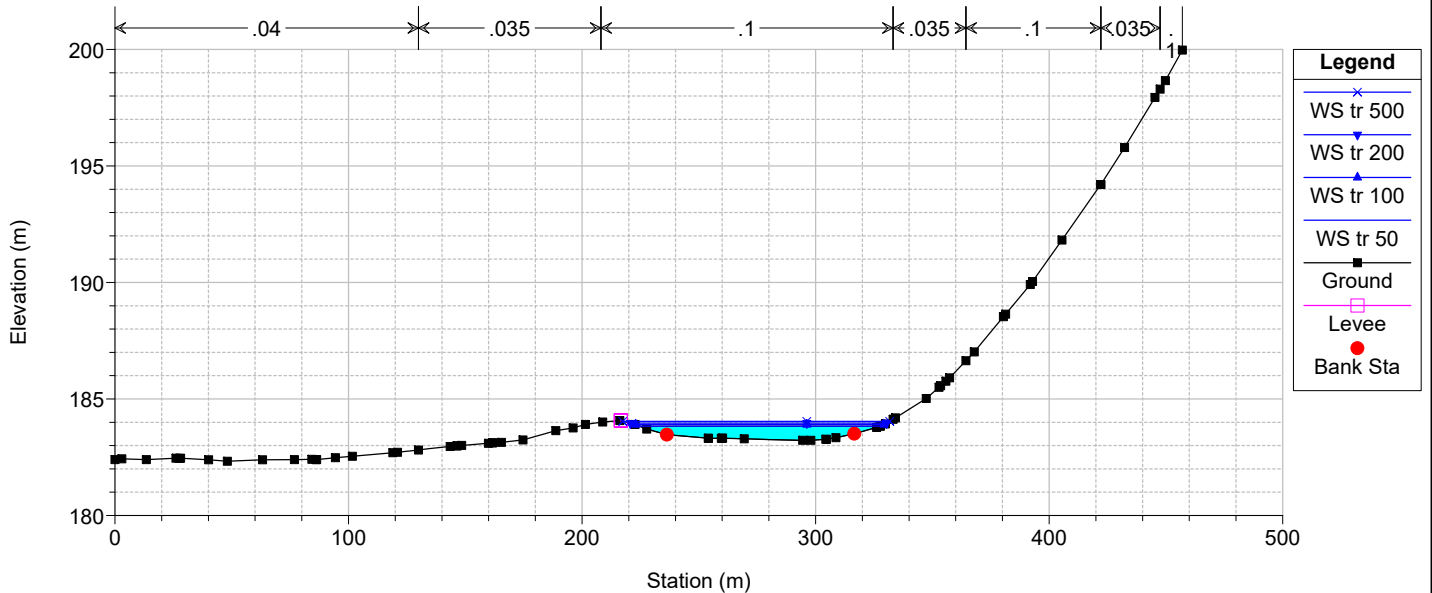
River = Fiume Santo Reach = Asta 1 RS = 19855.62 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

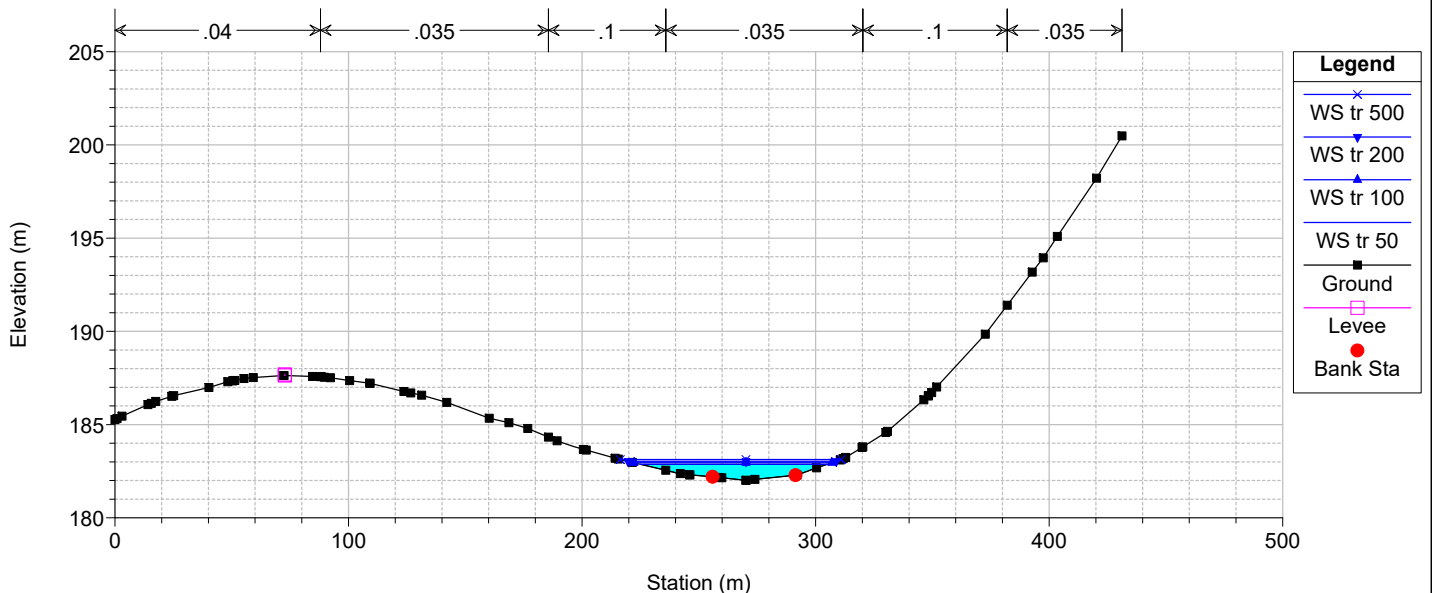
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

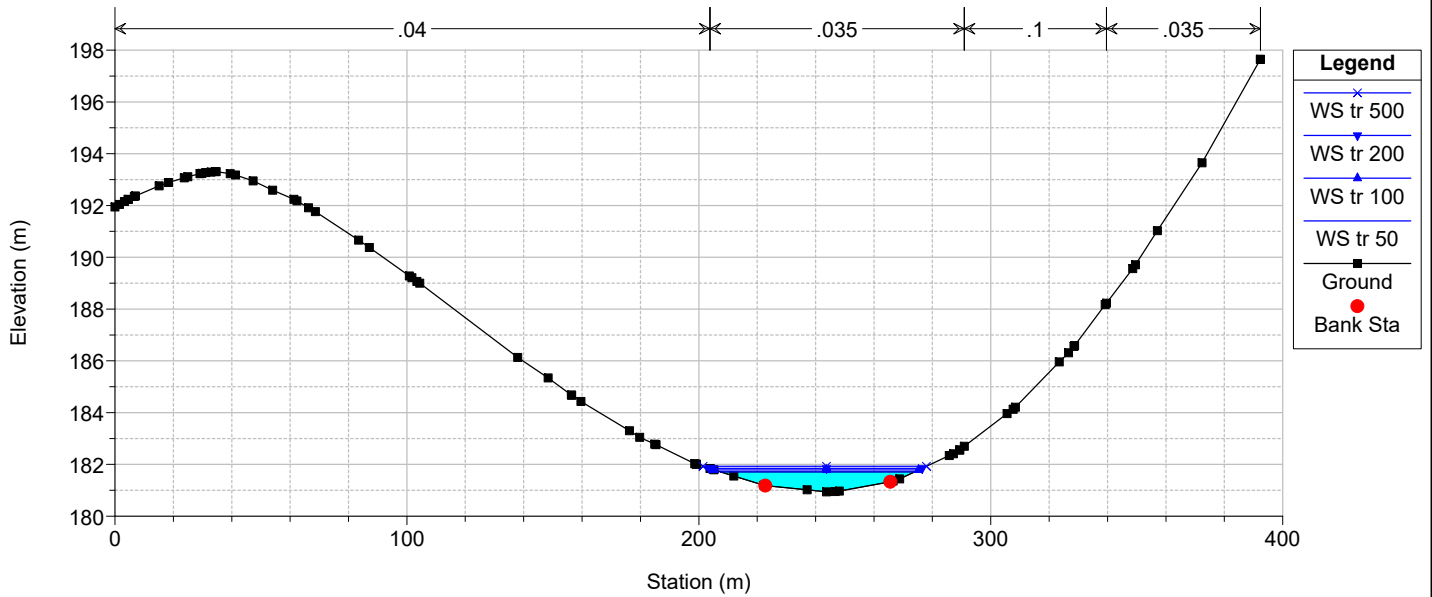
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

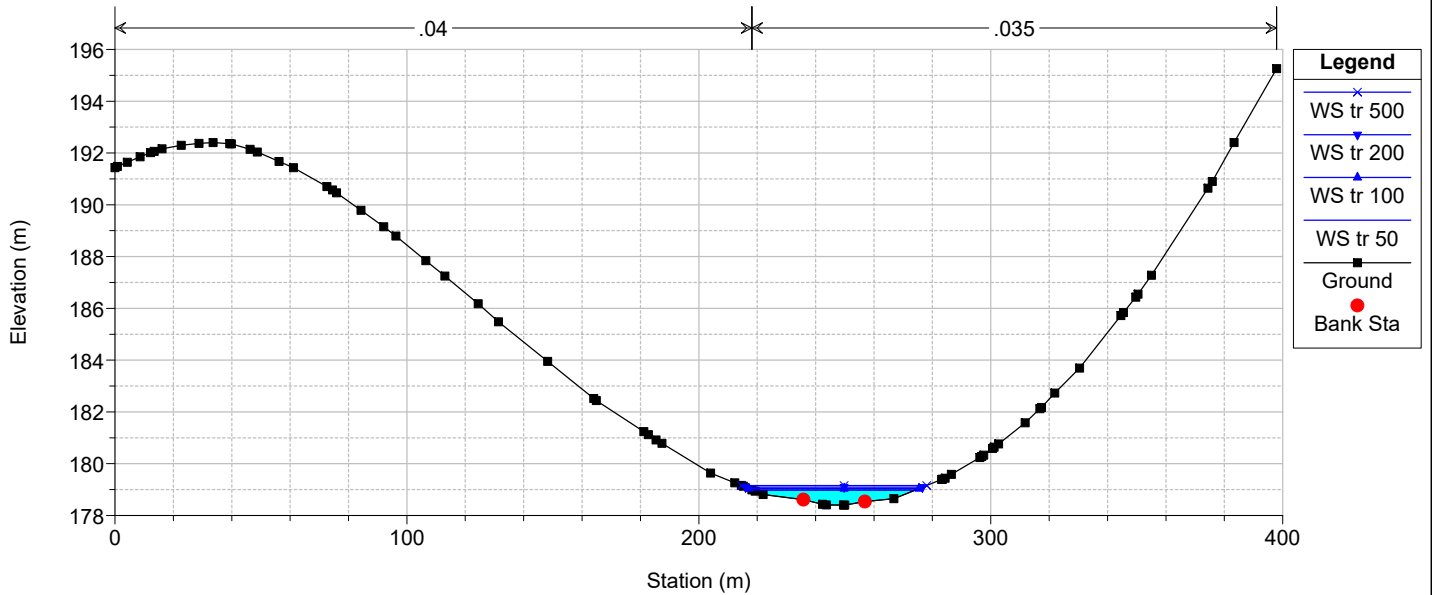
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

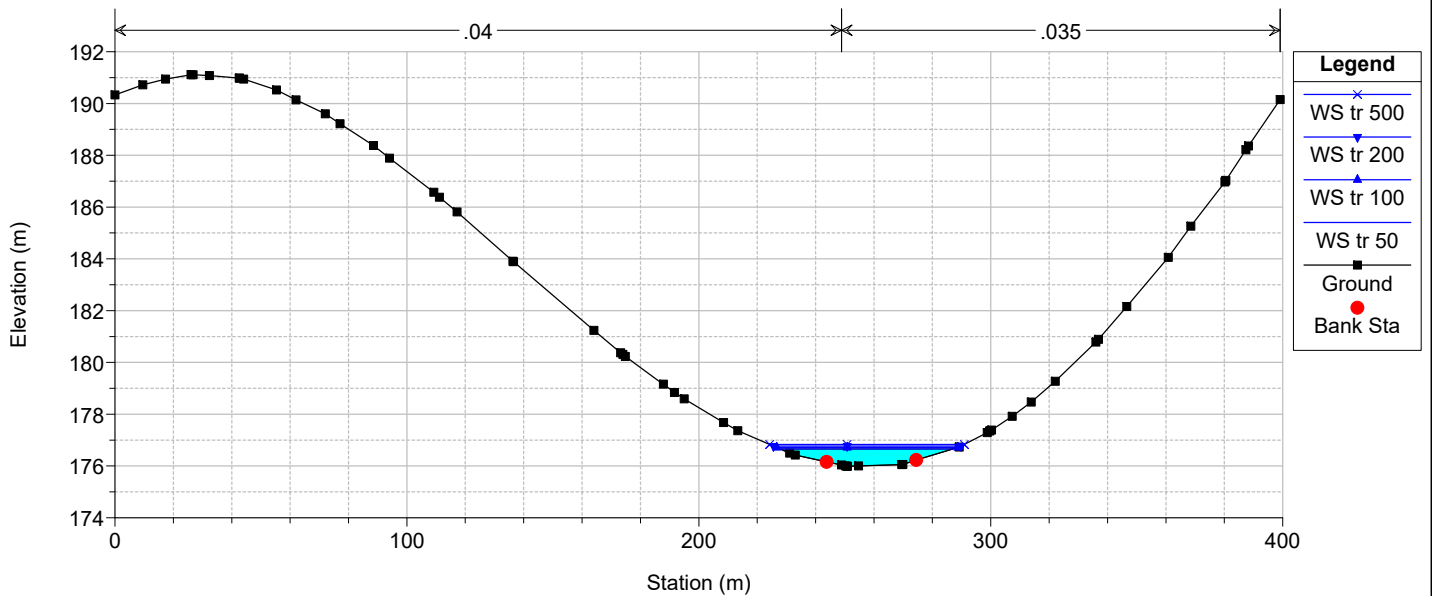
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

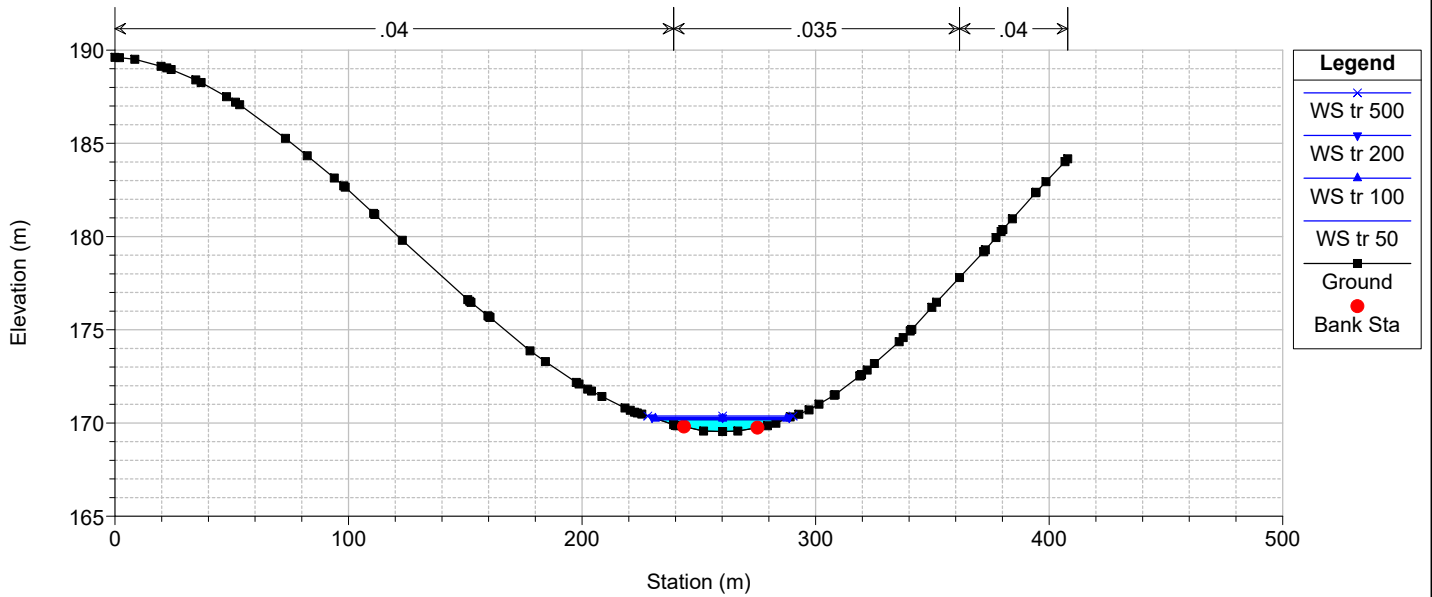
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

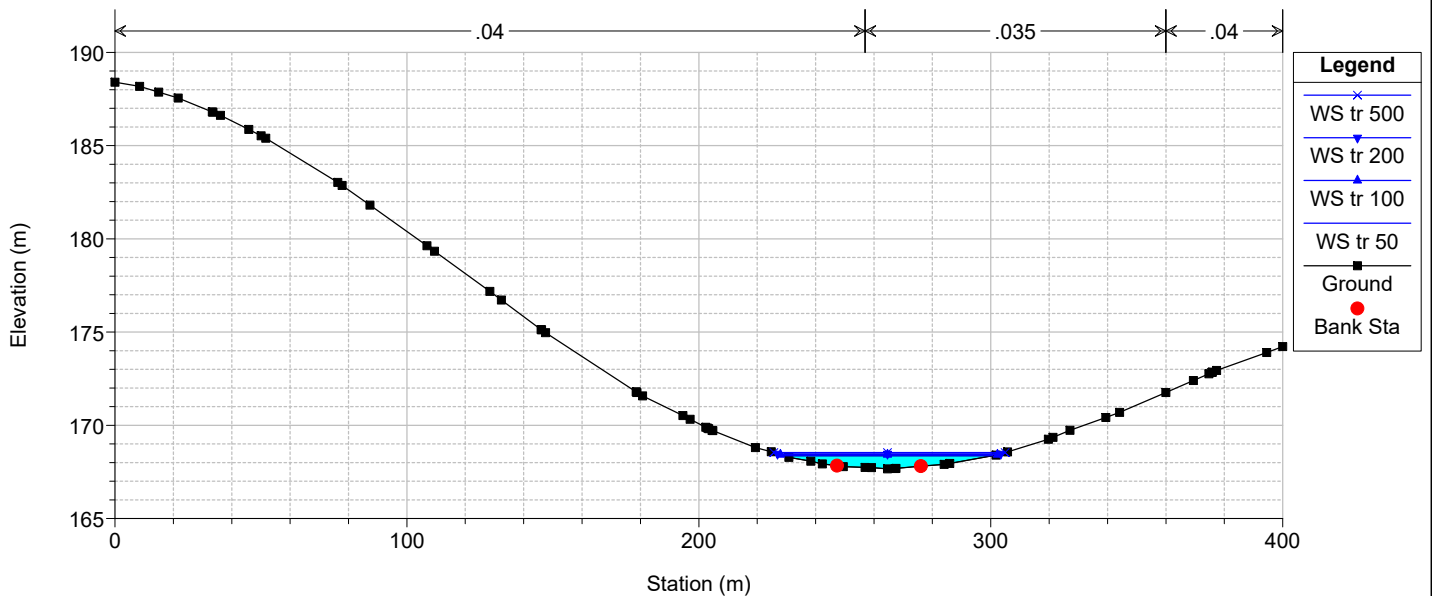
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

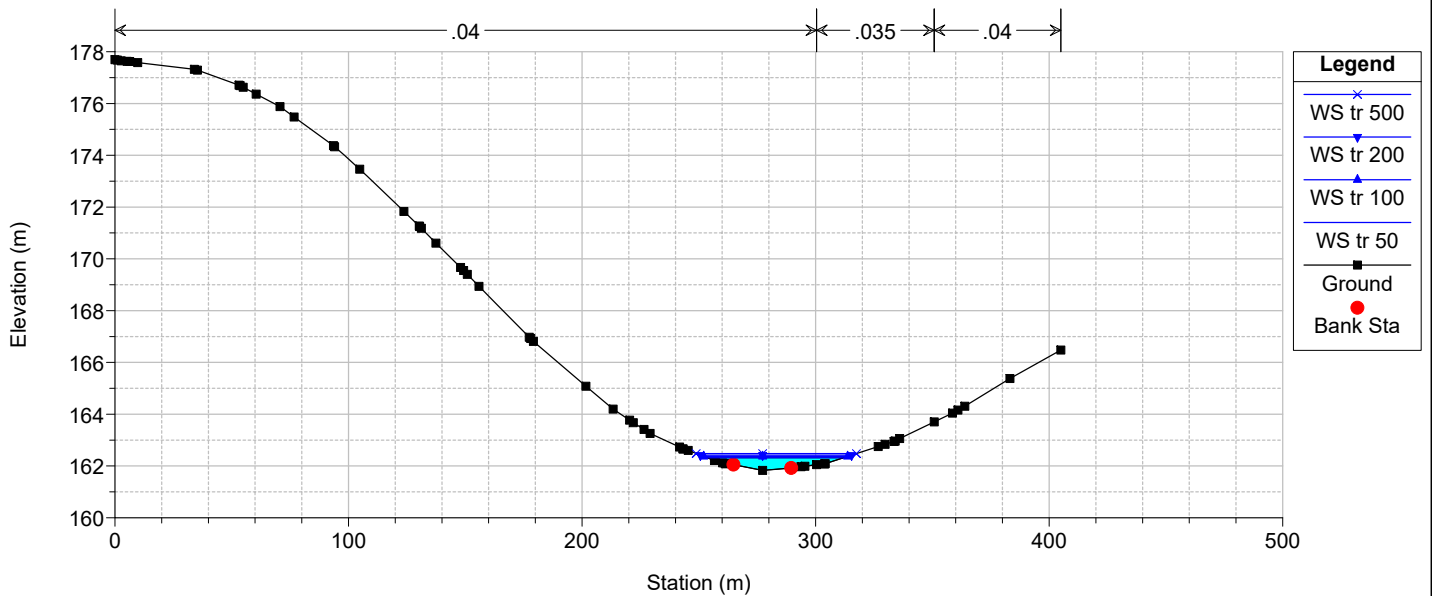
River = Fiume Santo Reach = Asta 1 RS = 19401.06 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

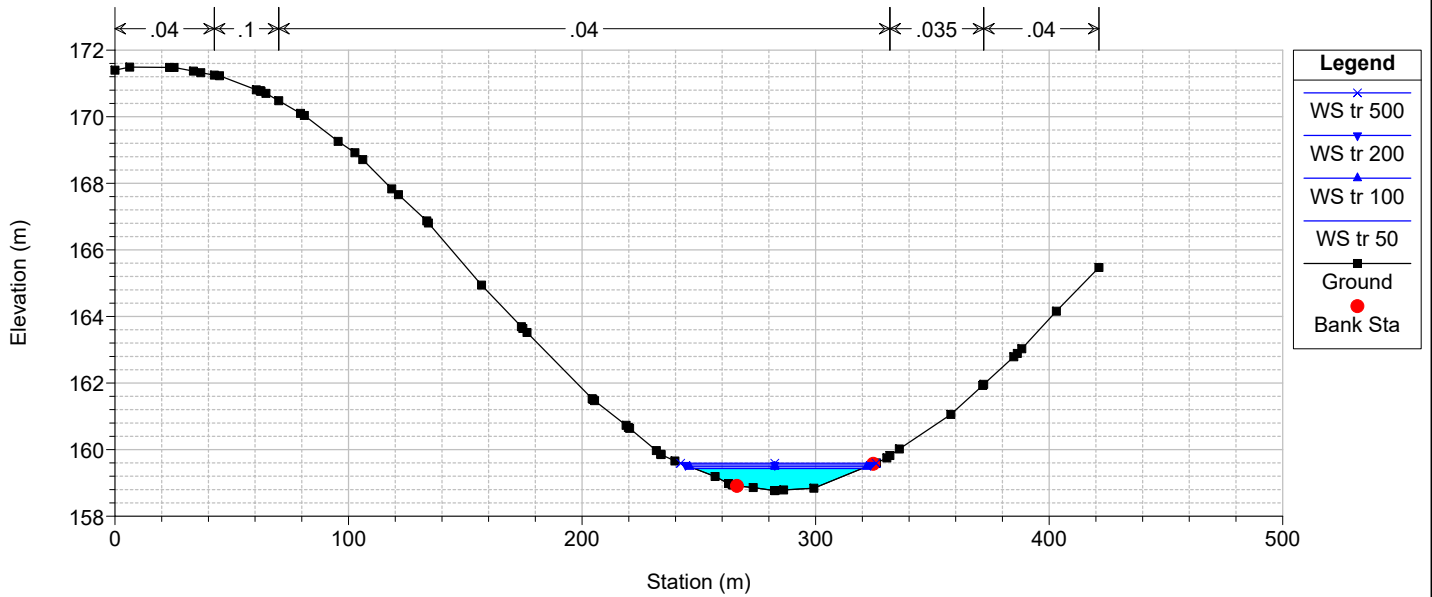
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

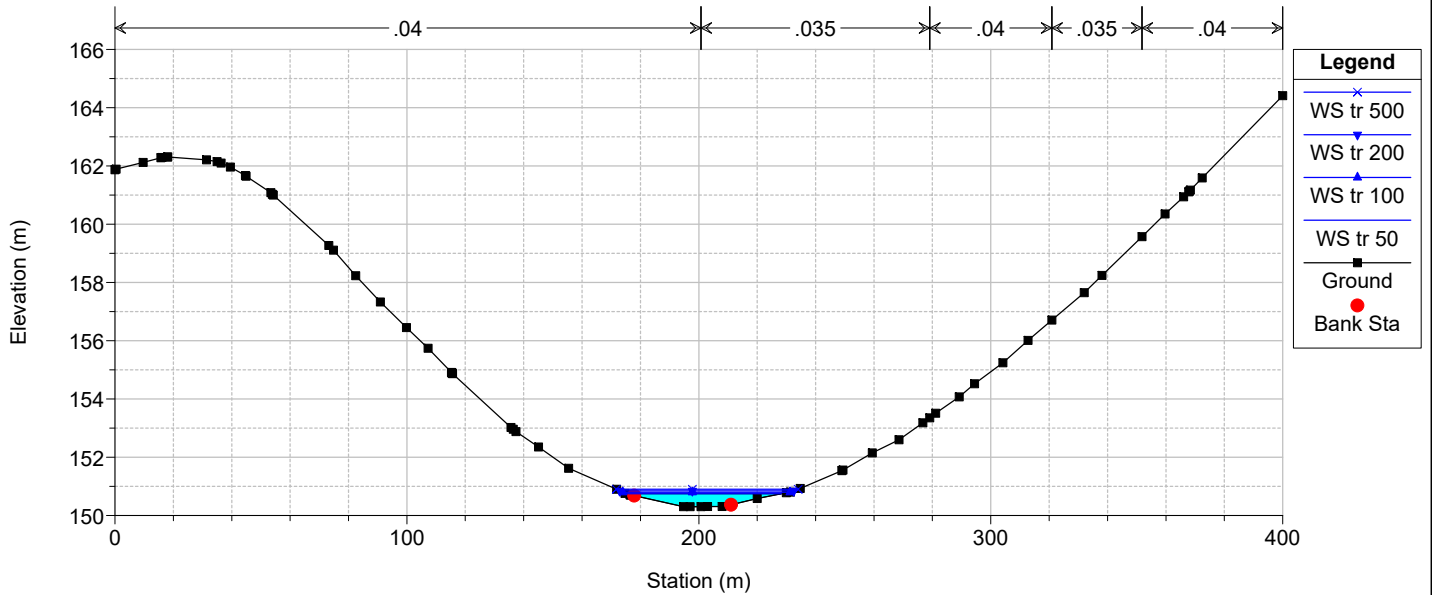
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

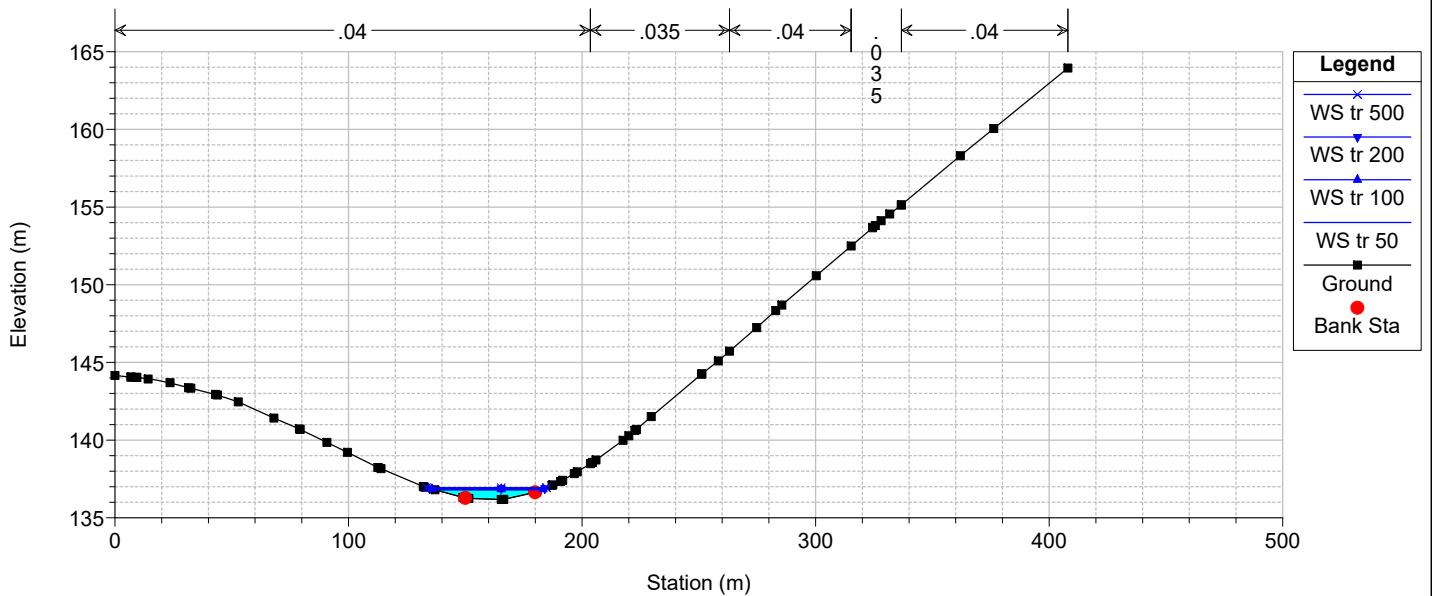
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

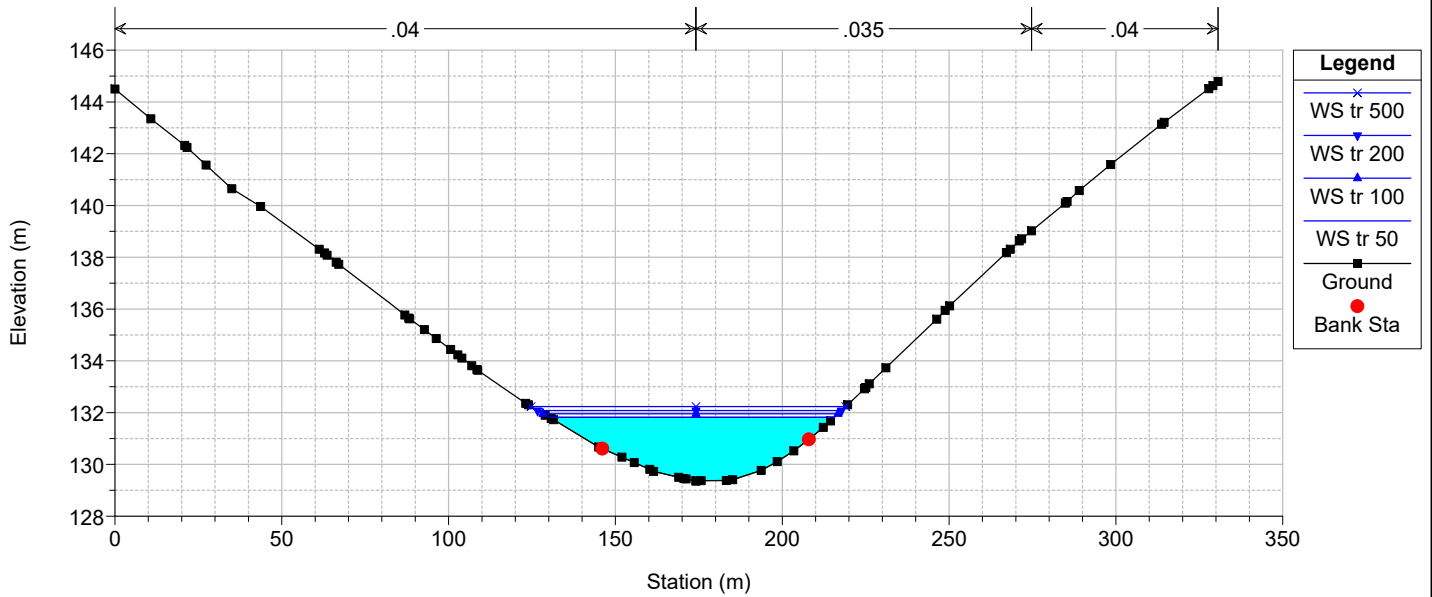
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

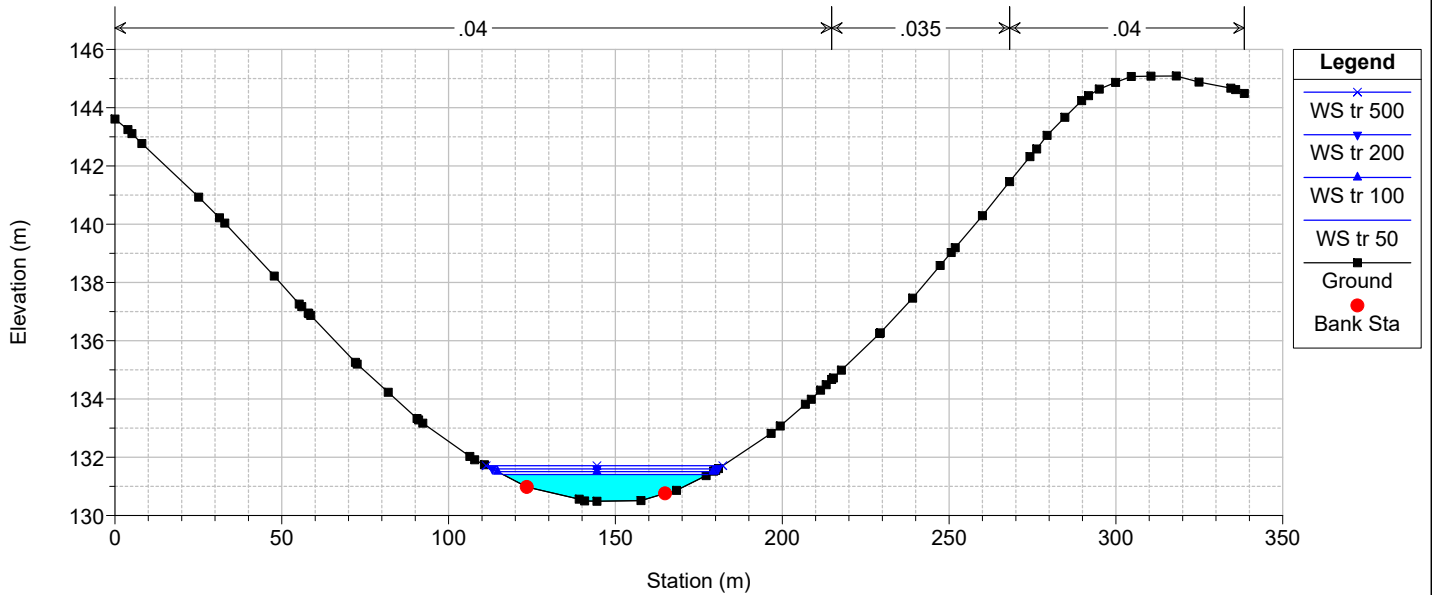
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

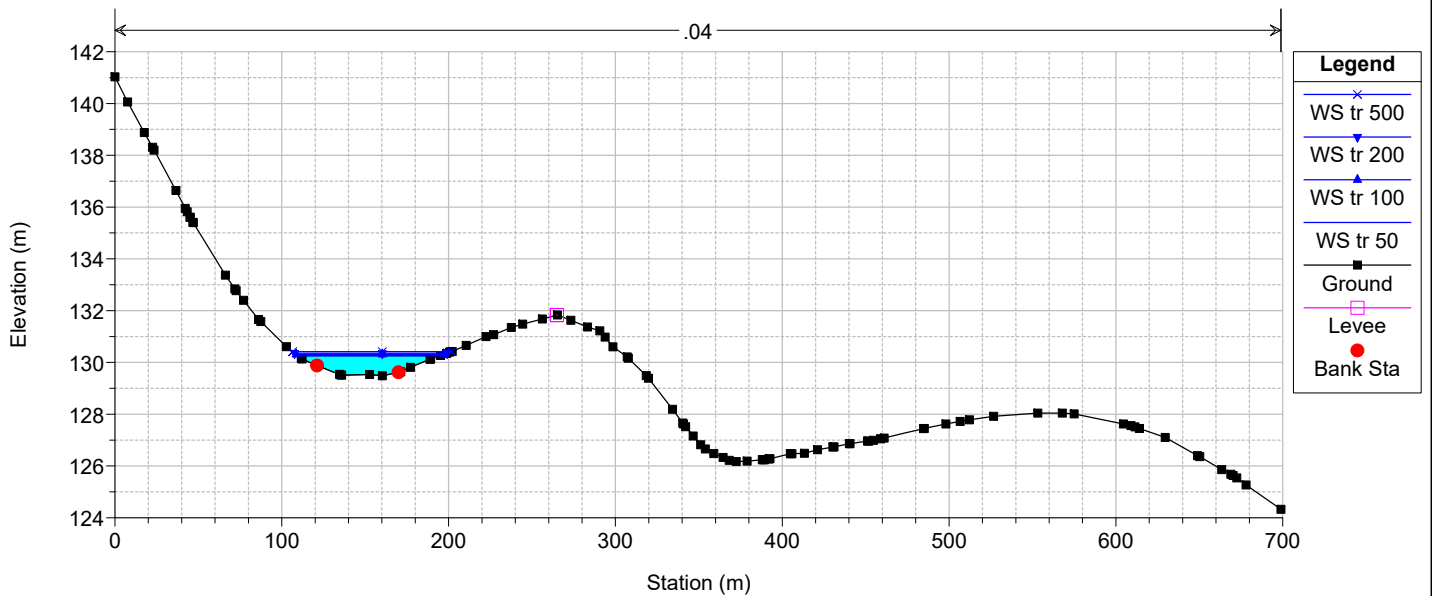
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

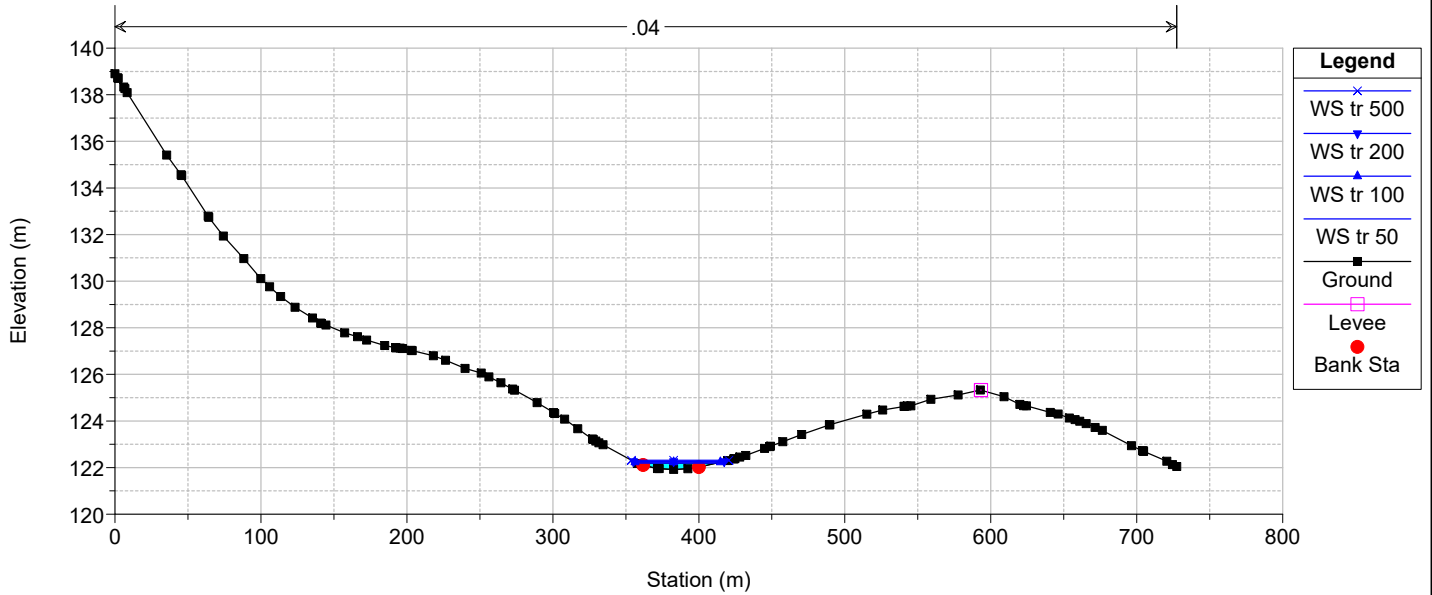
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

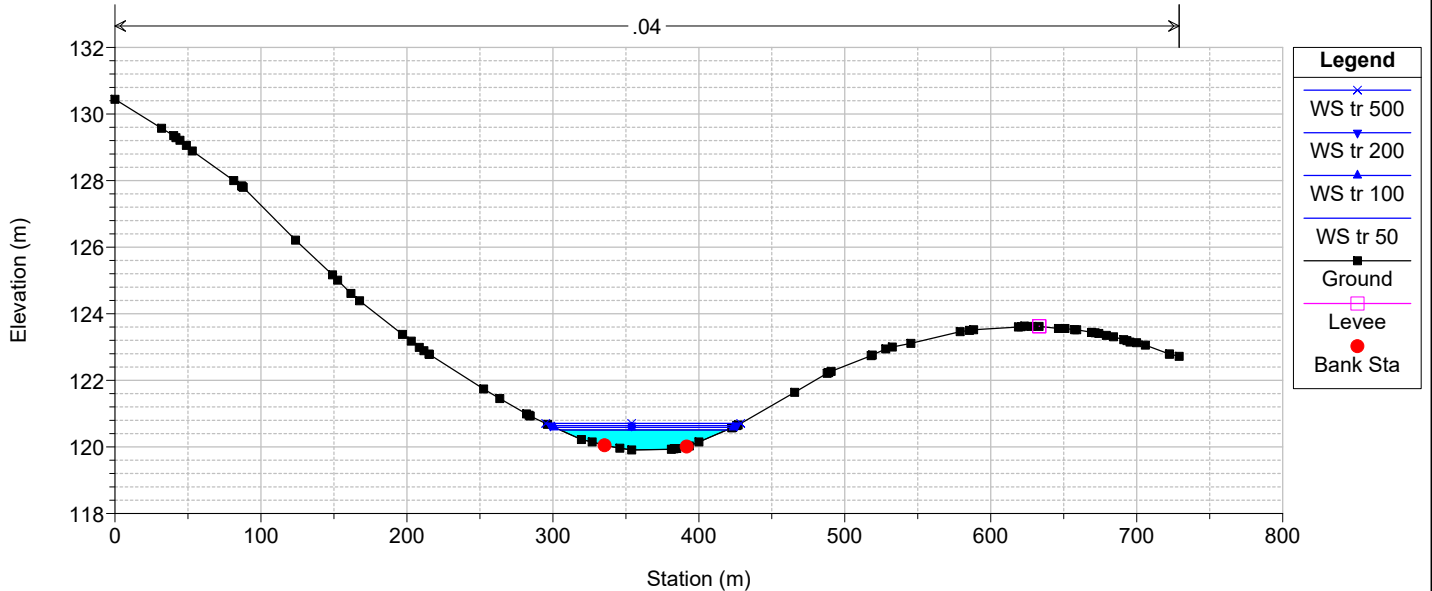
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

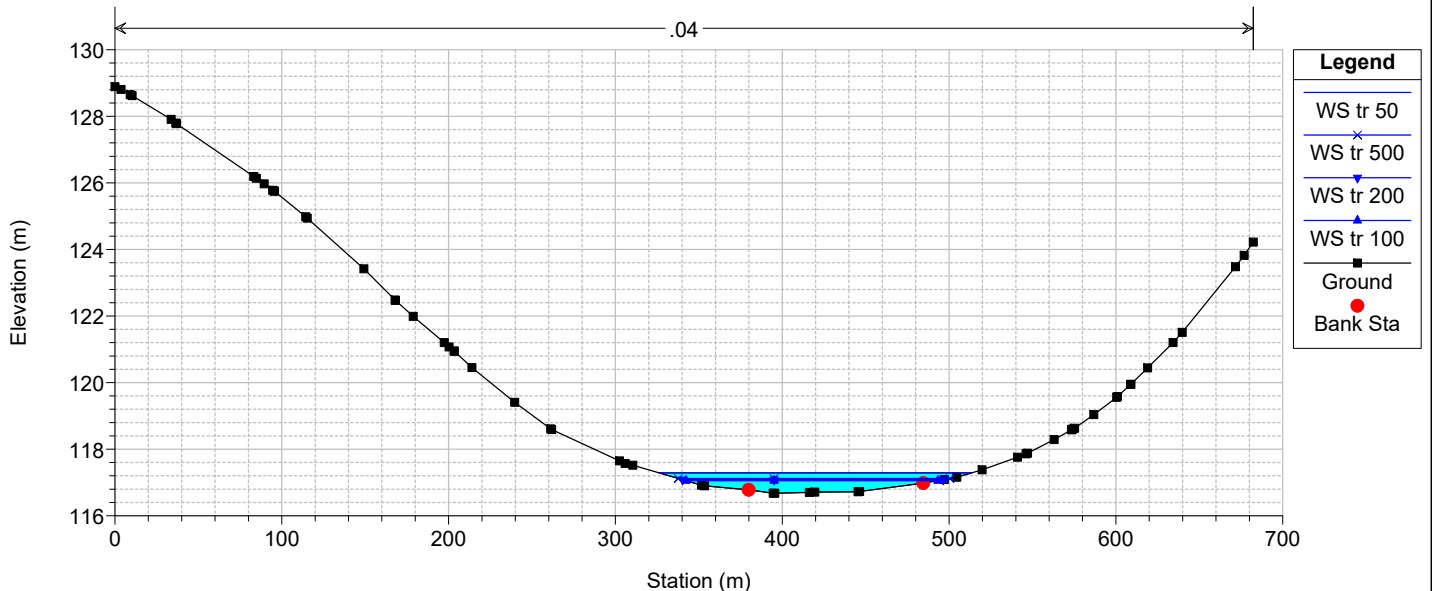
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

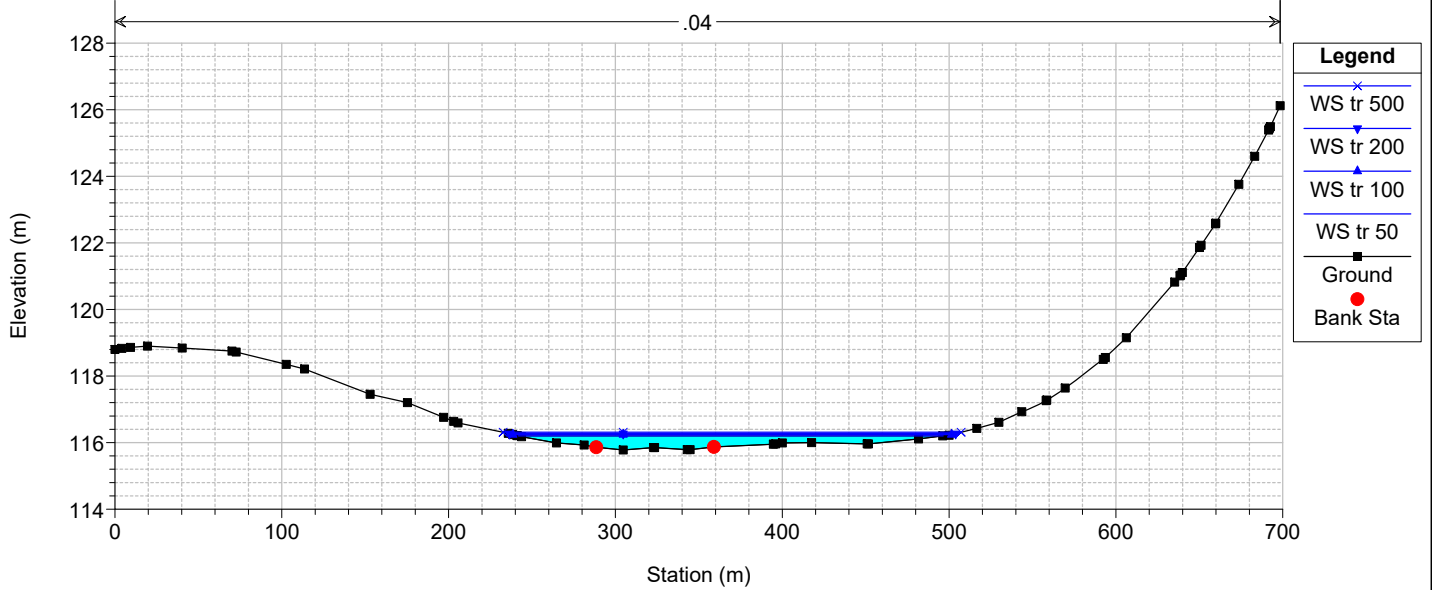
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

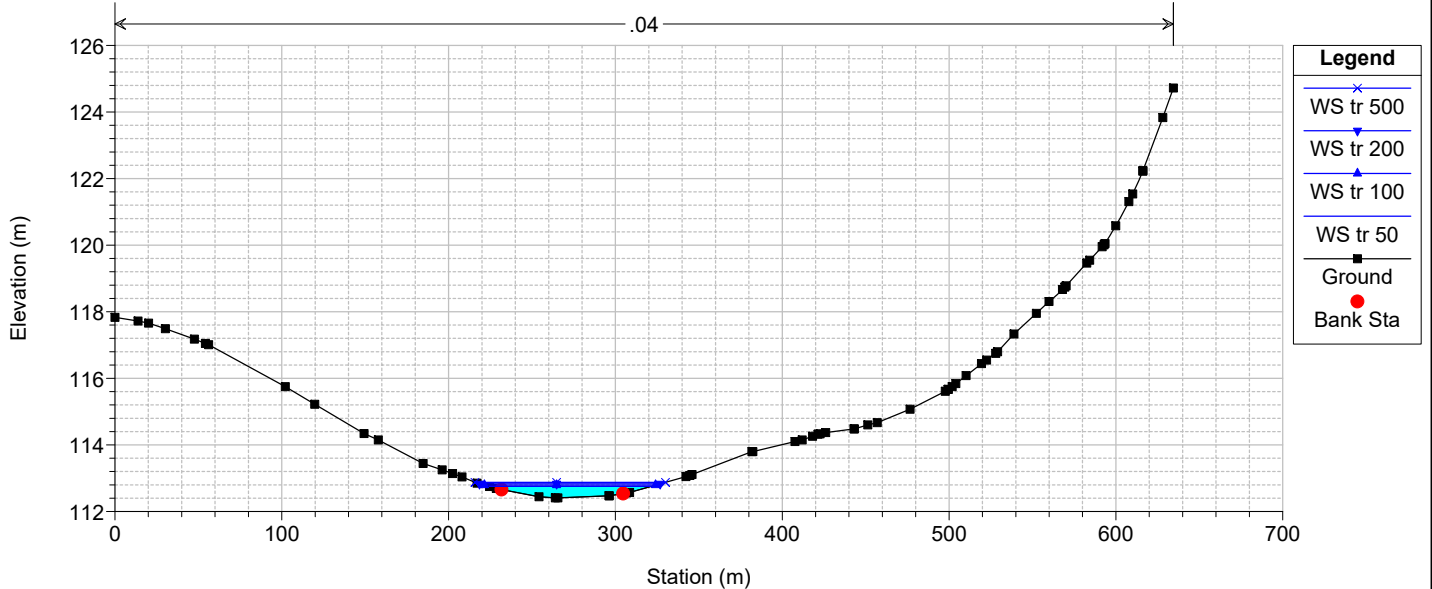
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

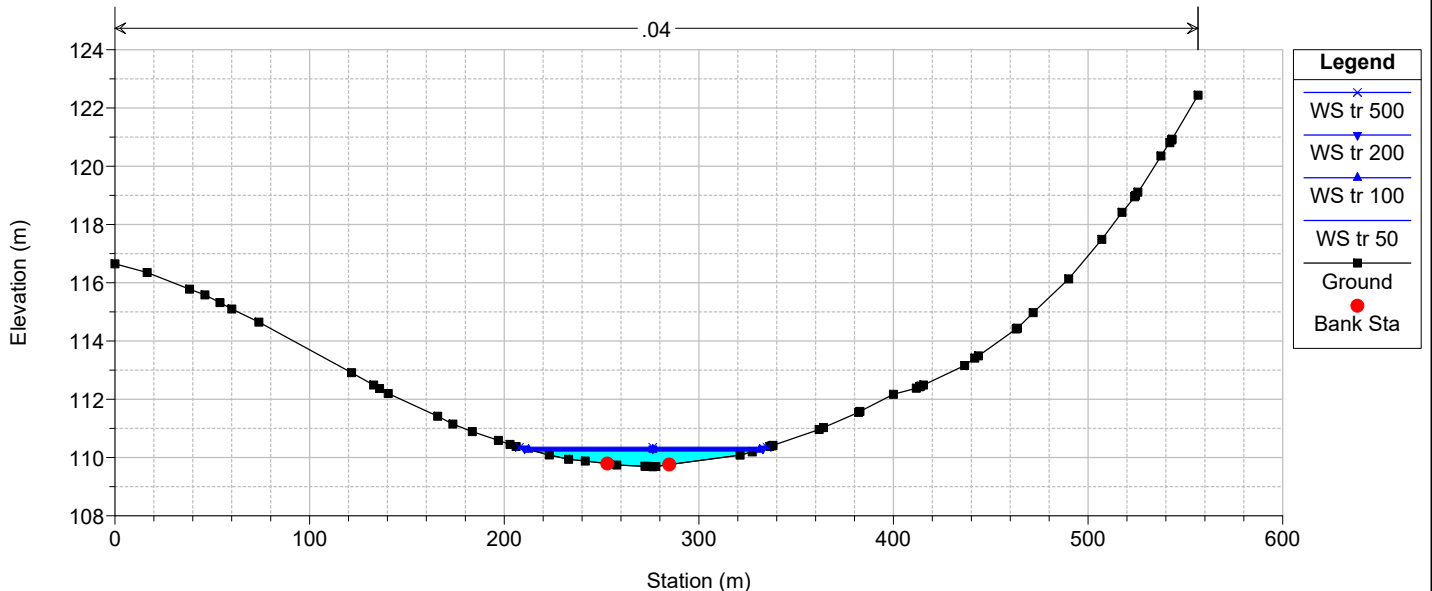
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

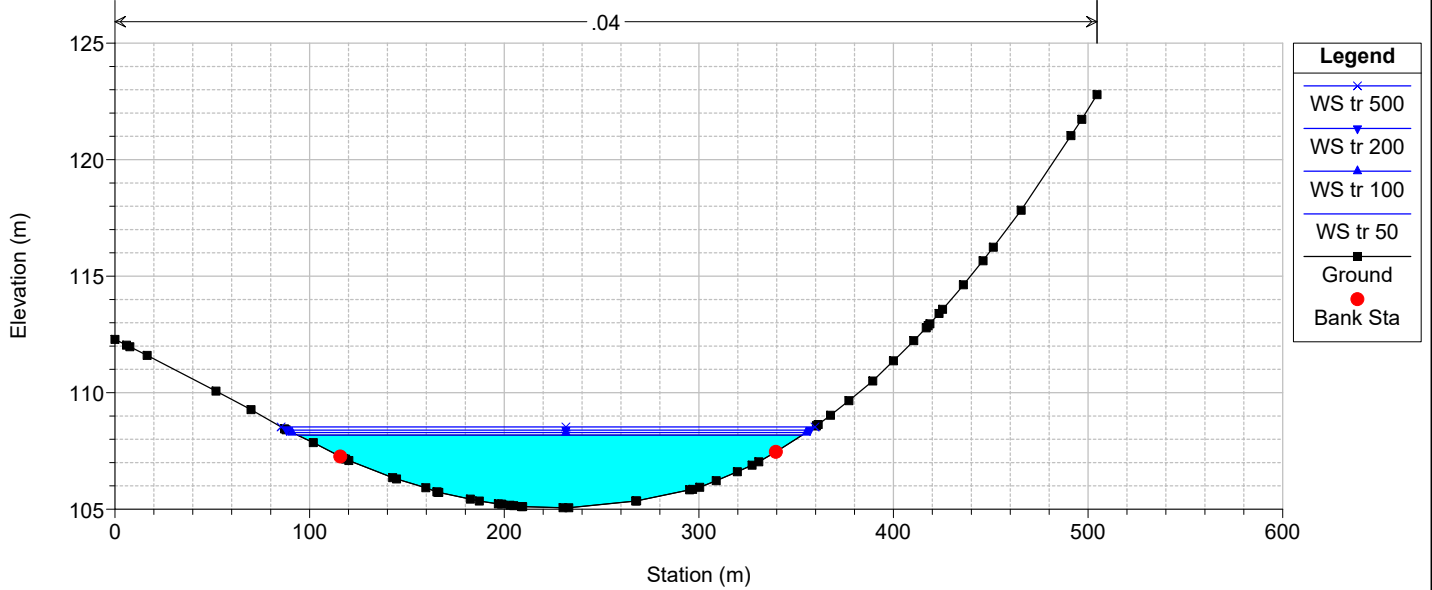
River = Fiume Santo Reach = Asta 1 RS = 18400.5 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

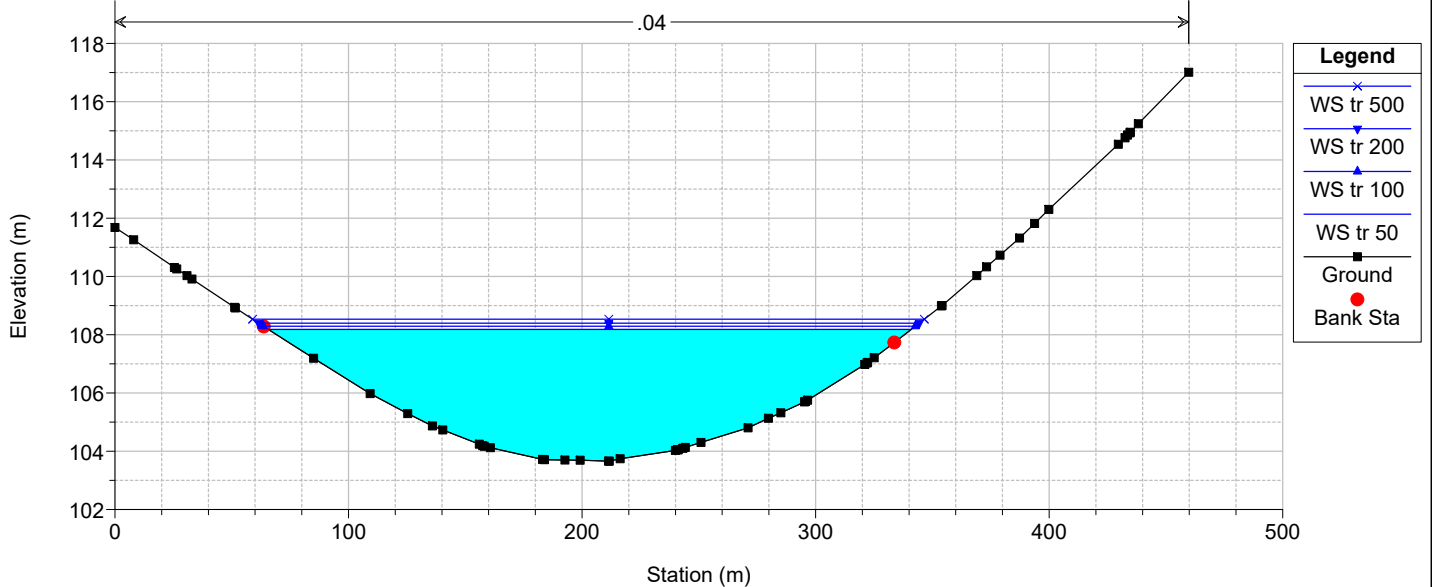
River = Fiume Santo Reach = Asta 1 RS = 18300.45 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

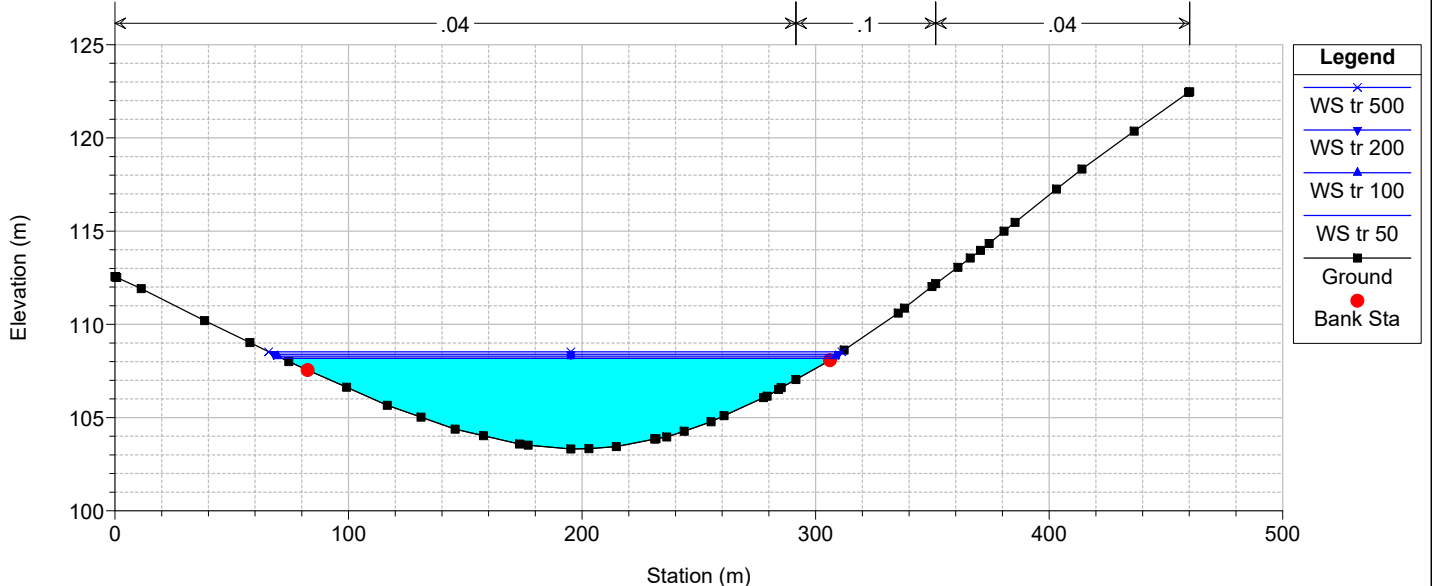
River = Fiume Santo Reach = Asta 1 RS = 18215.05 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

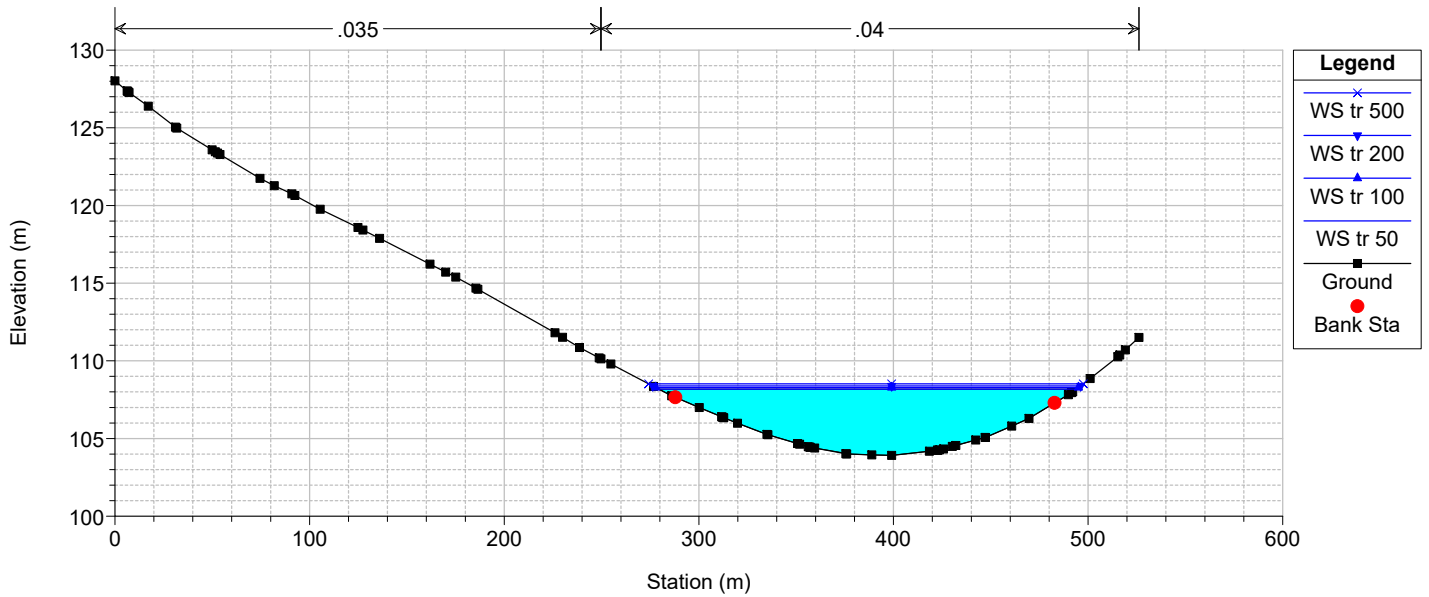
River = Fiume Santo Reach = Asta 1 RS = 18109.46 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

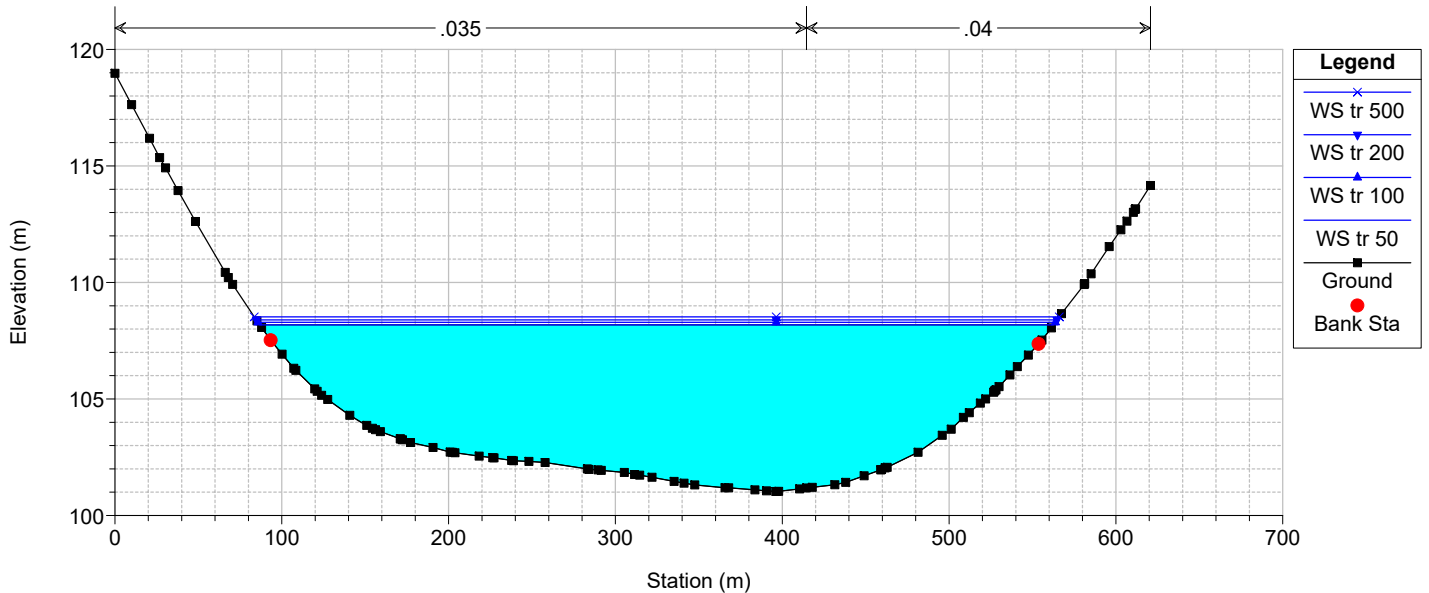
River = Fiume Santo Reach = Asta 1 RS = 17771.82 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

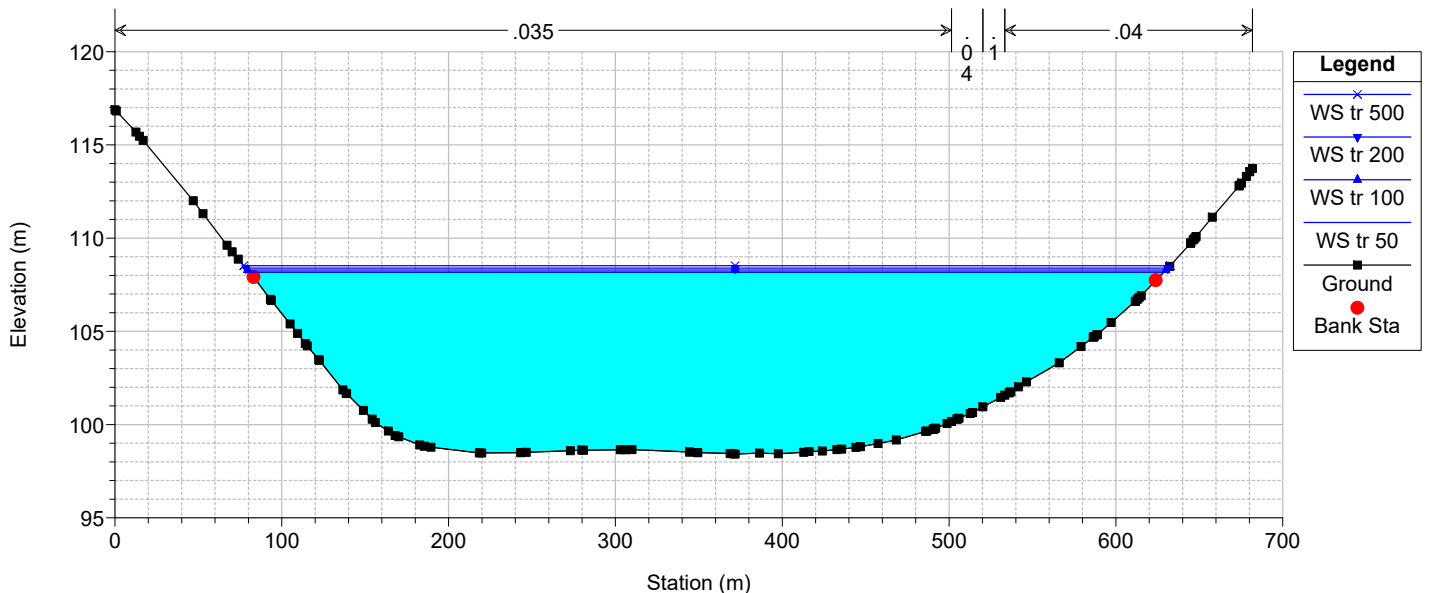
River = Fiume Santo Reach = Asta 1 RS = 17614.47 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

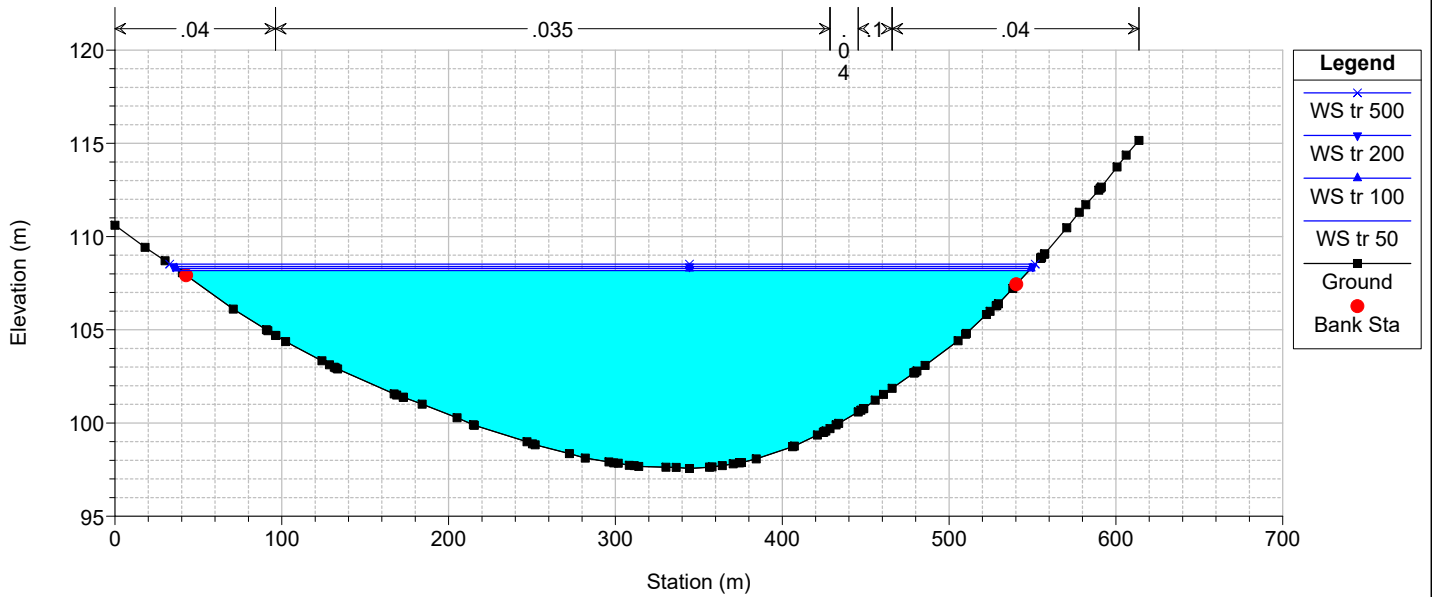
River = Fiume Santo Reach = Asta 1 RS = 17572.85 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

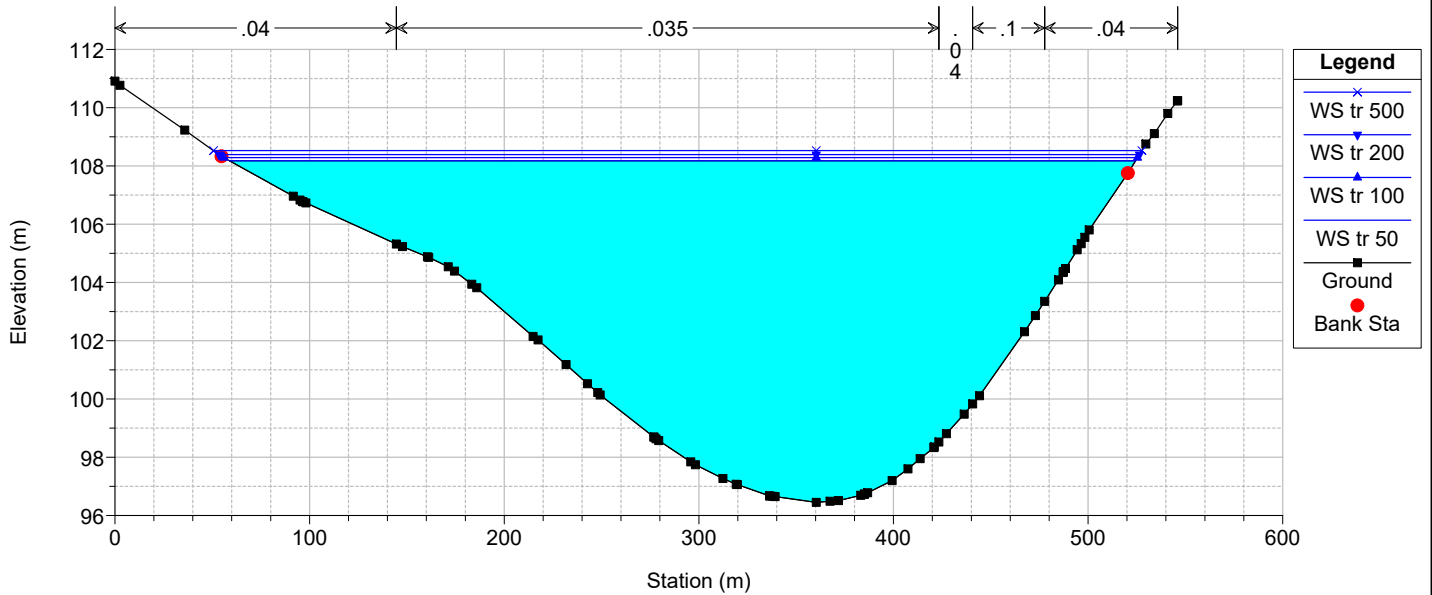
River = Fiume Santo Reach = Asta 1 RS = 17550.12 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

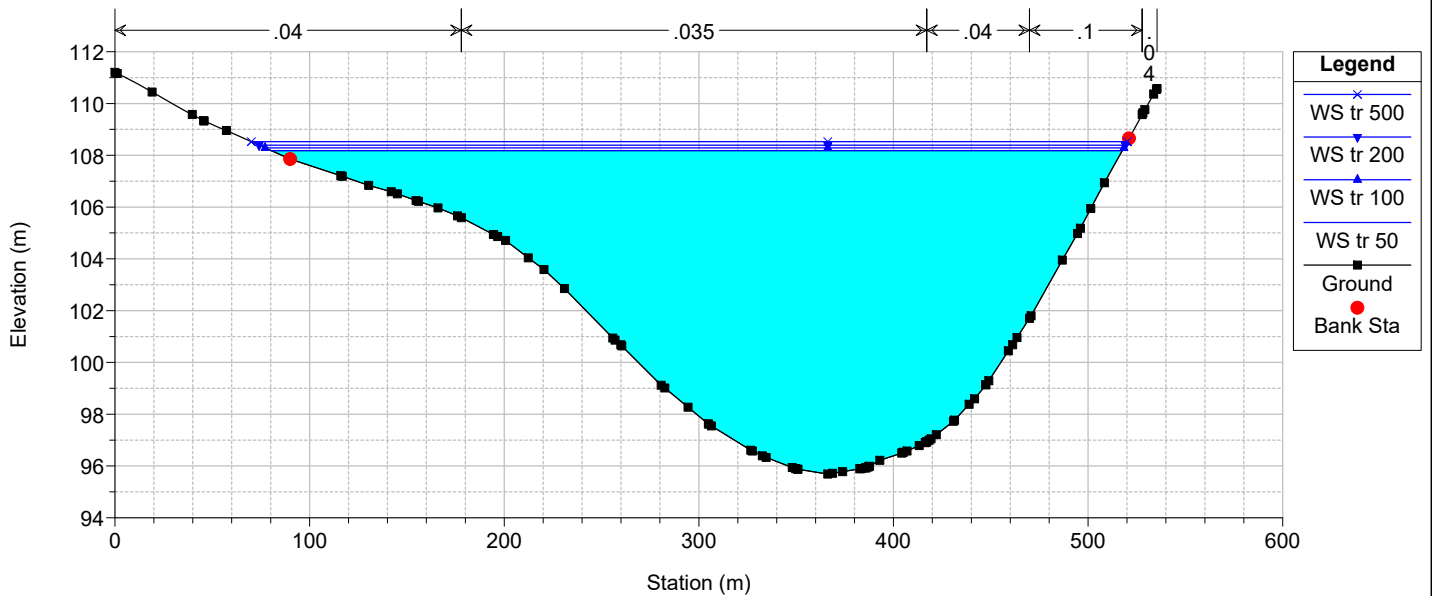
River = Fiume Santo Reach = Asta 1 RS = 17497.86 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

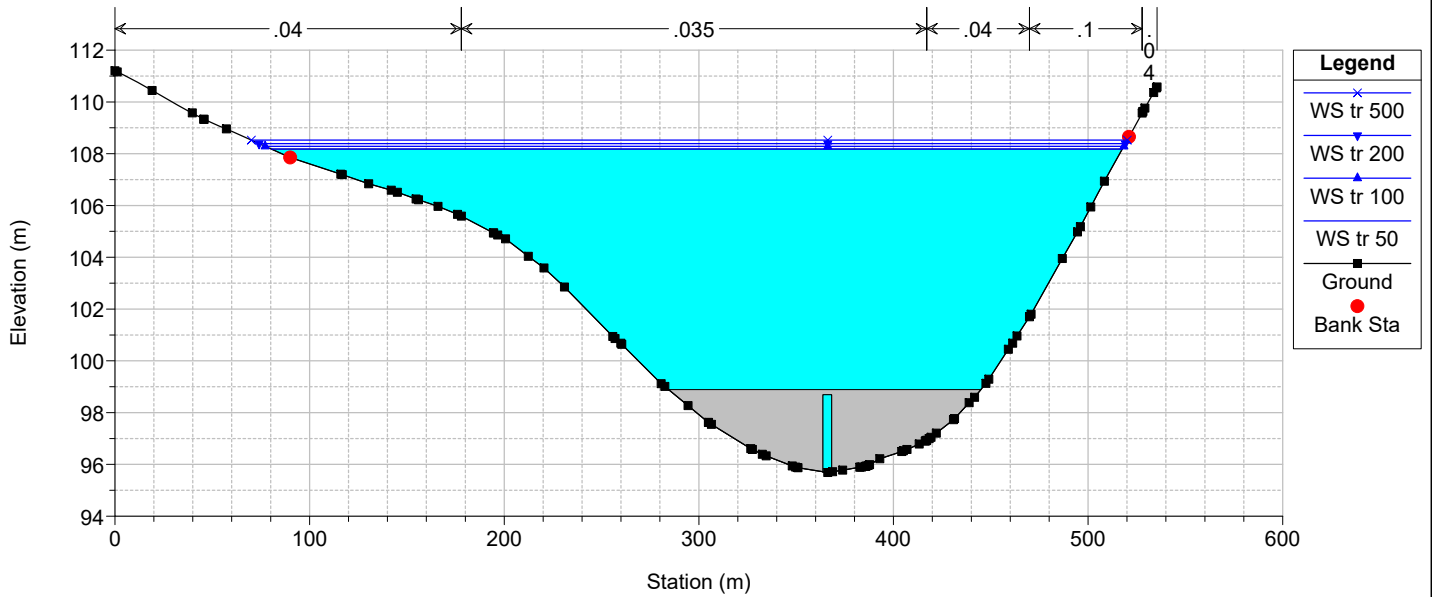
River = Fiume Santo Reach = Asta 1 RS = 17433.02 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

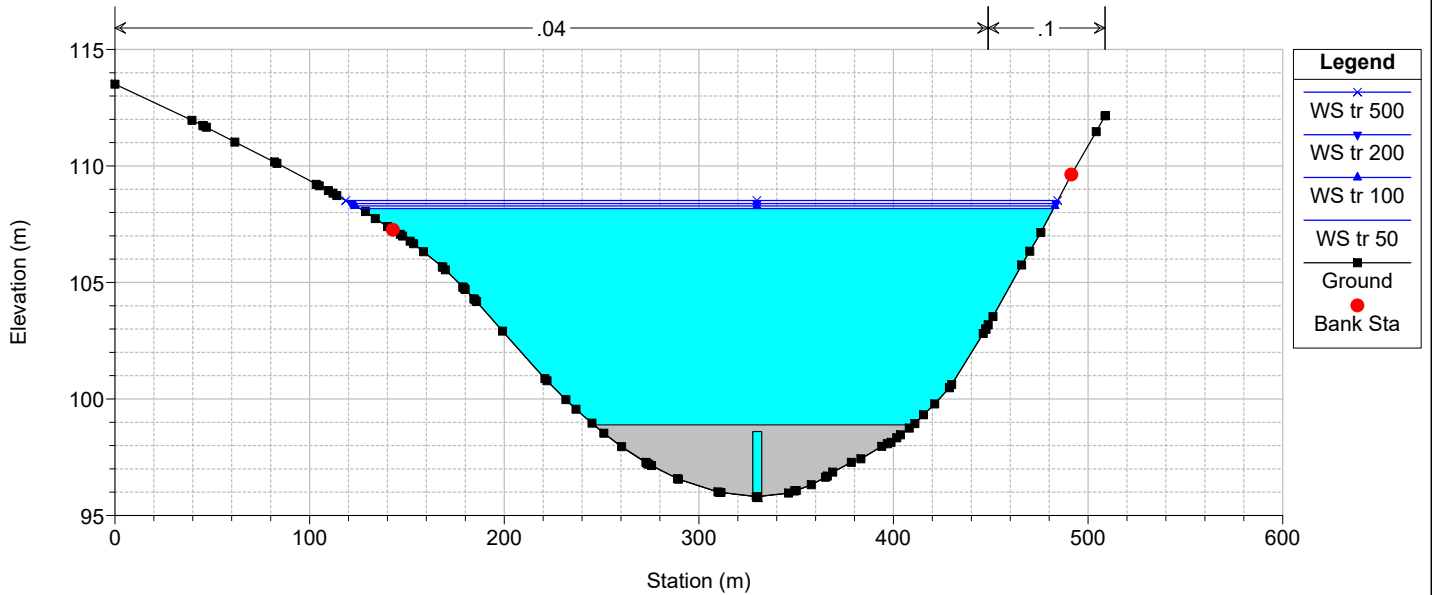
River = Fiume Santo Reach = Asta 1 RS = 17418.73 Culv B14 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

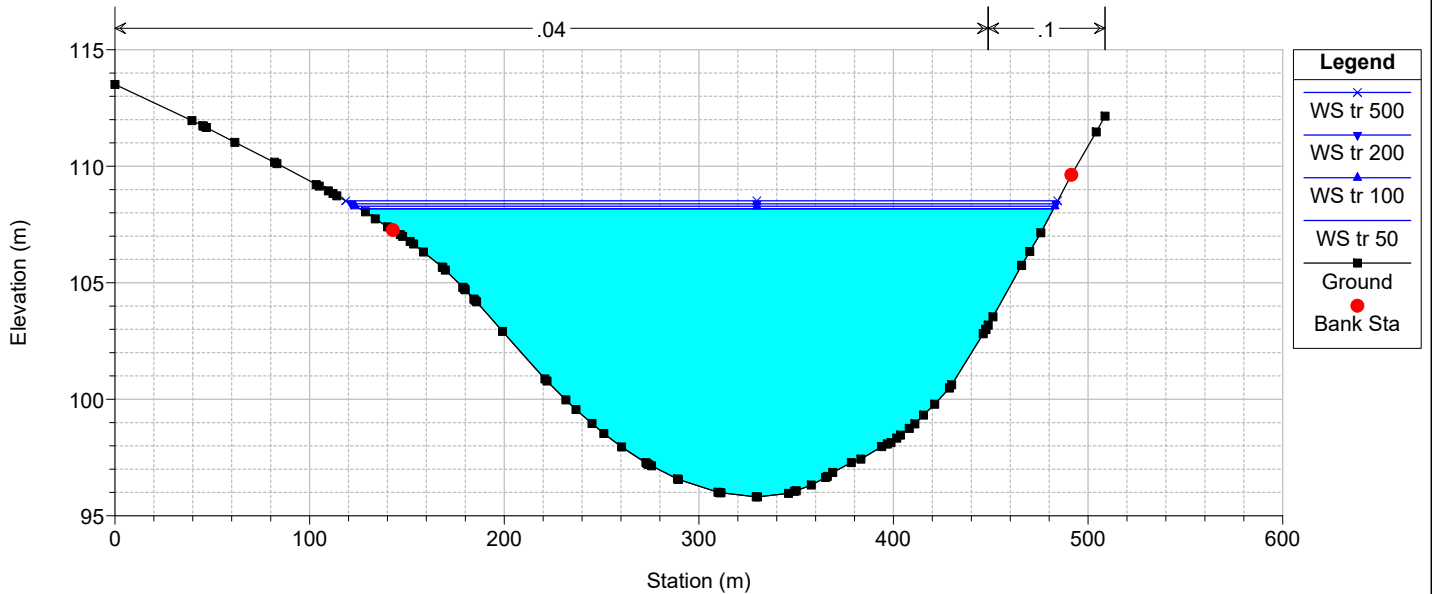
River = Fiume Santo Reach = Asta 1 RS = 17418.73 Culv B14 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

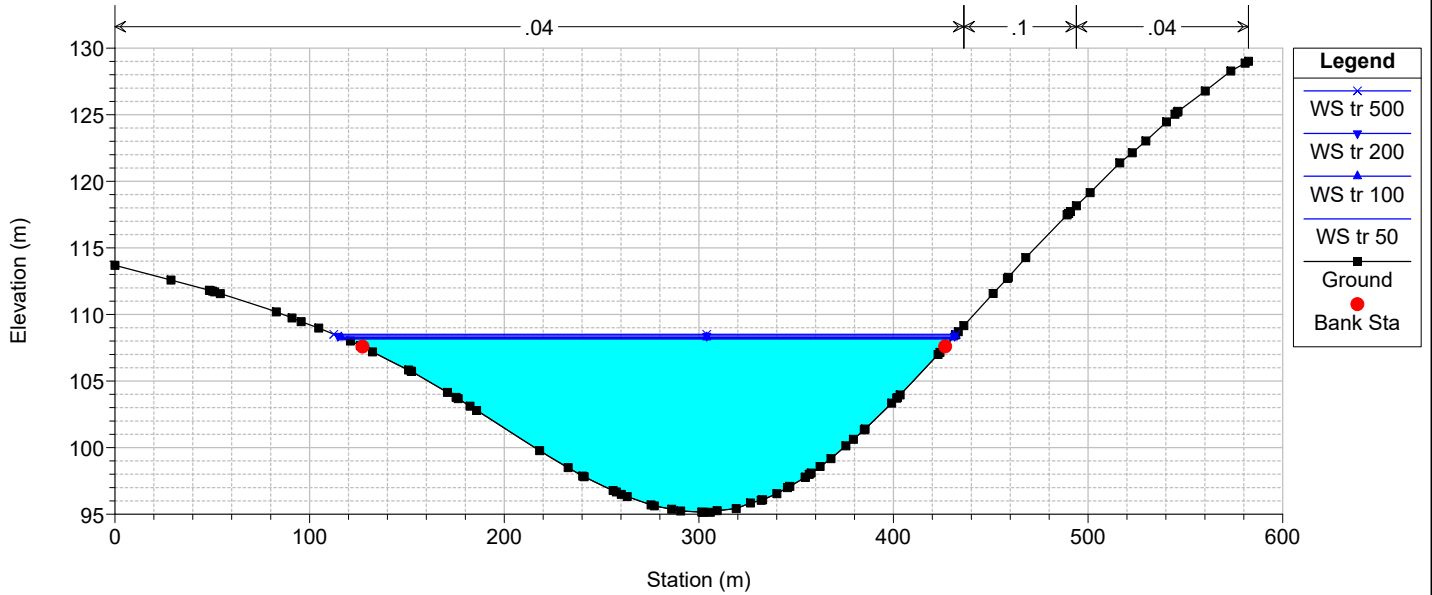
River = Fiume Santo Reach = Asta 1 RS = 17408.49 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

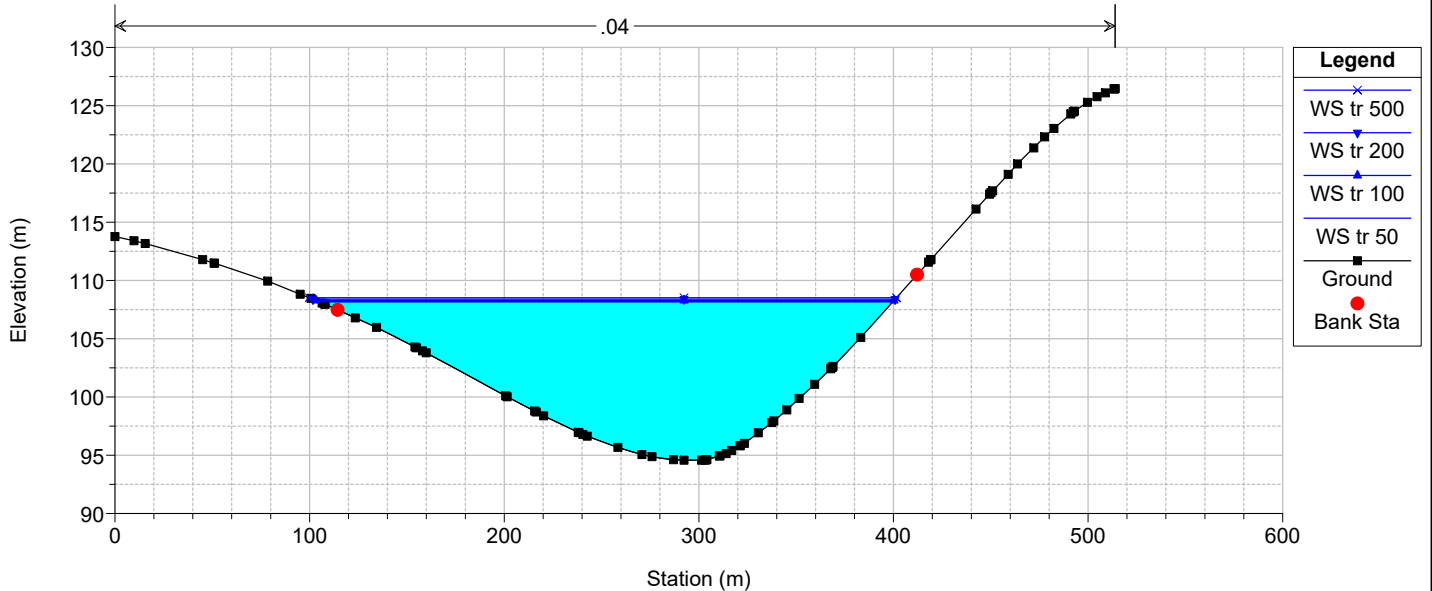
River = Fiume Santo Reach = Asta 1 RS = 17301.49 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

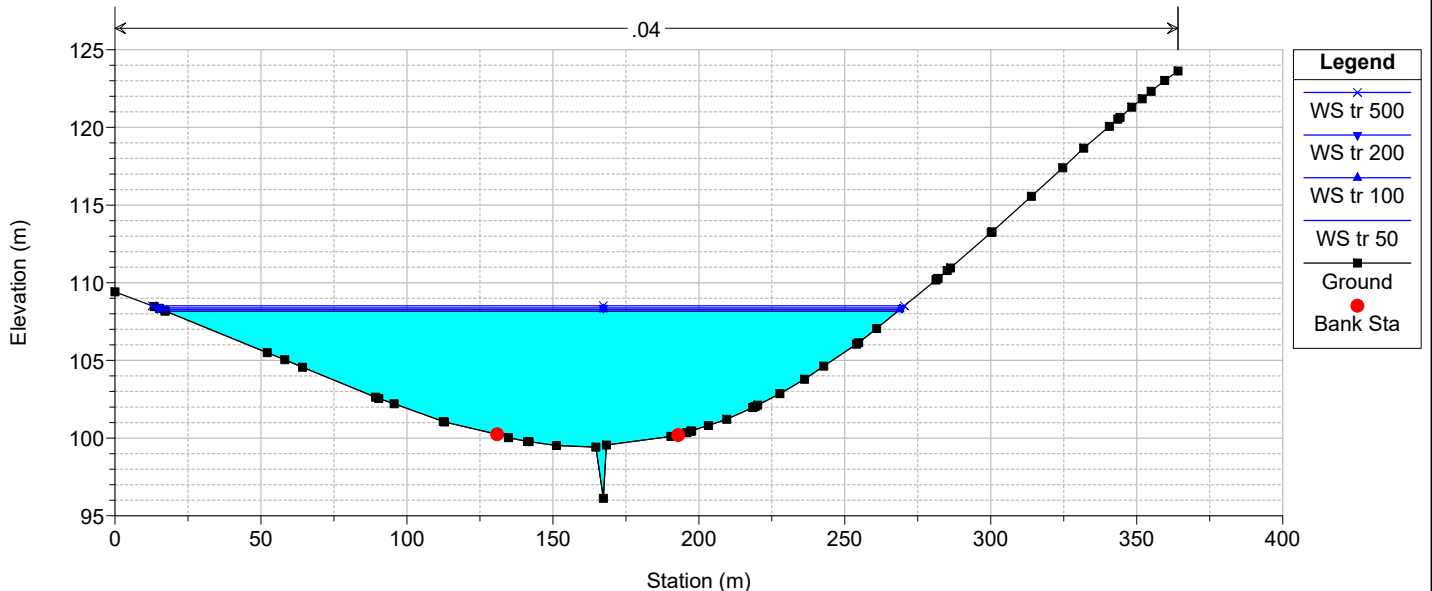
River = Fiume Santo Reach = Asta 1 RS = 17183.76 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

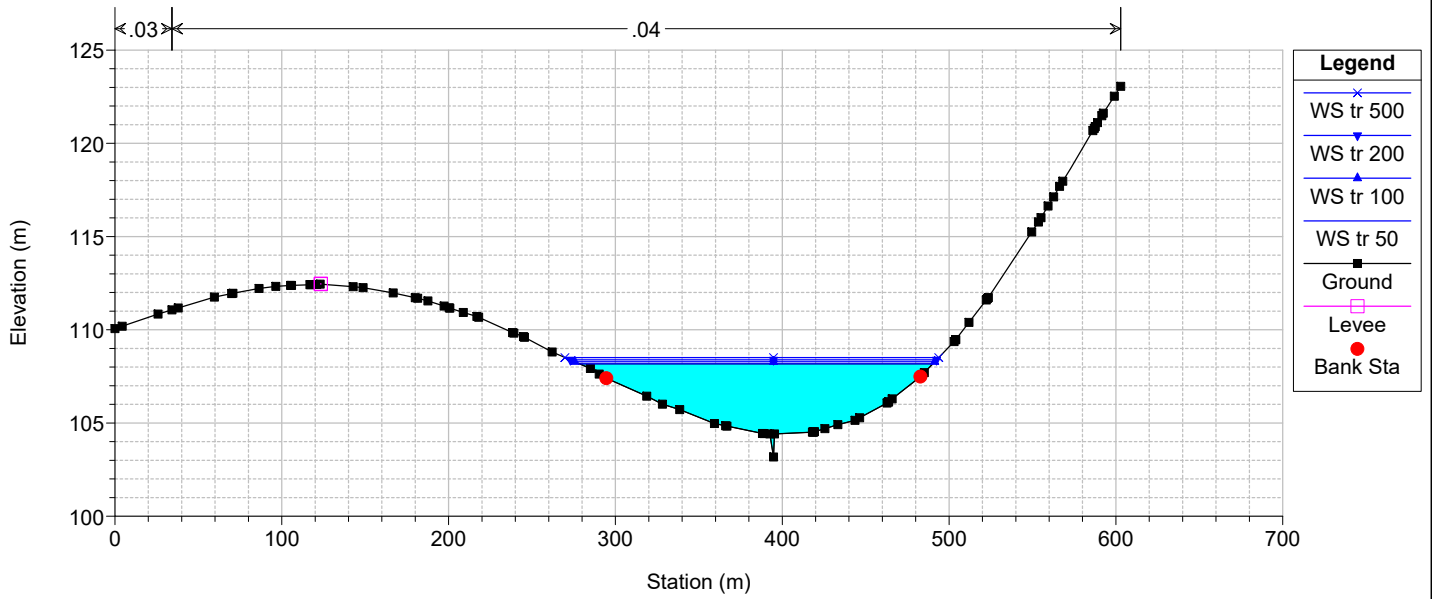
River = Fiume Santo Reach = Asta 1 RS = 17115.88 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

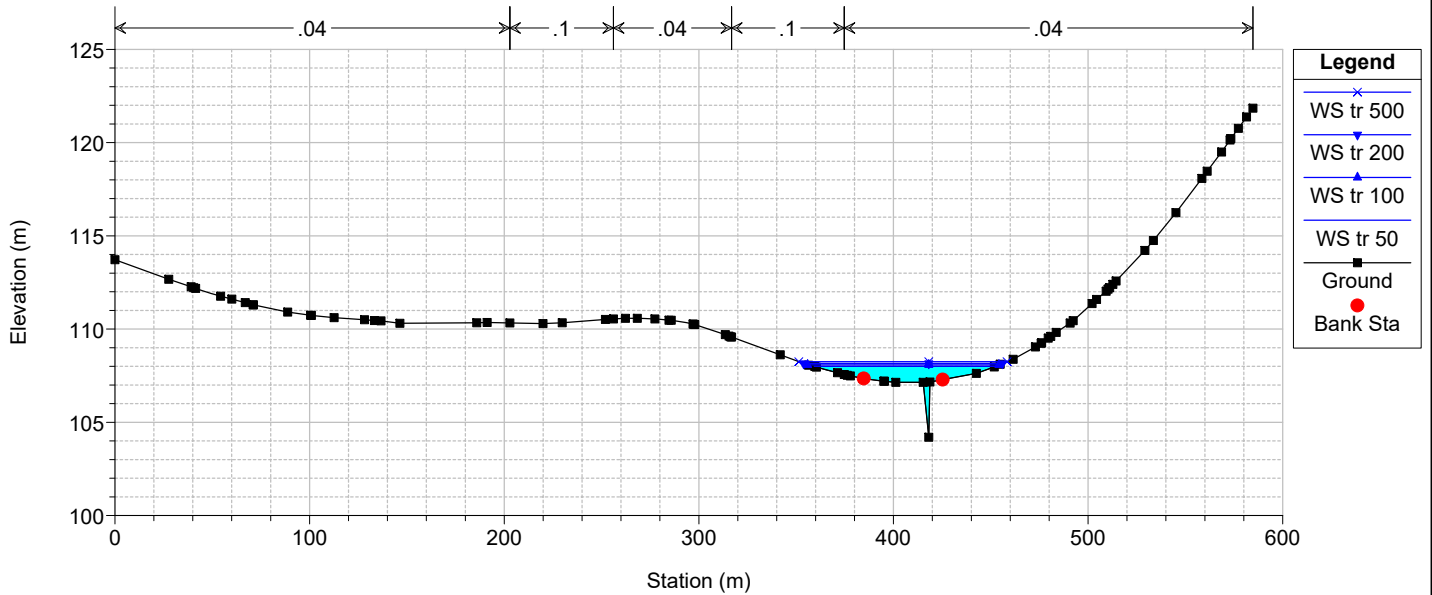
River = Fiume Santo Reach = Asta 1 RS = 17032.06 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

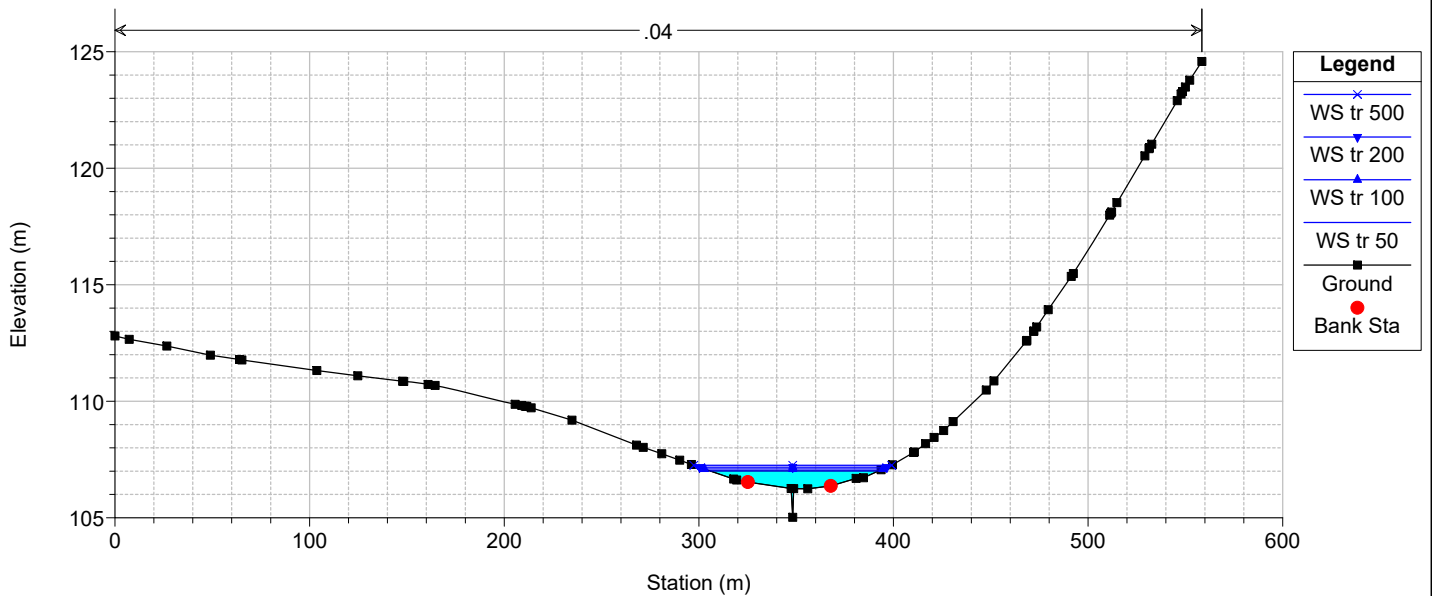
River = Fiume Santo Reach = Asta 1 RS = 16910.63 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

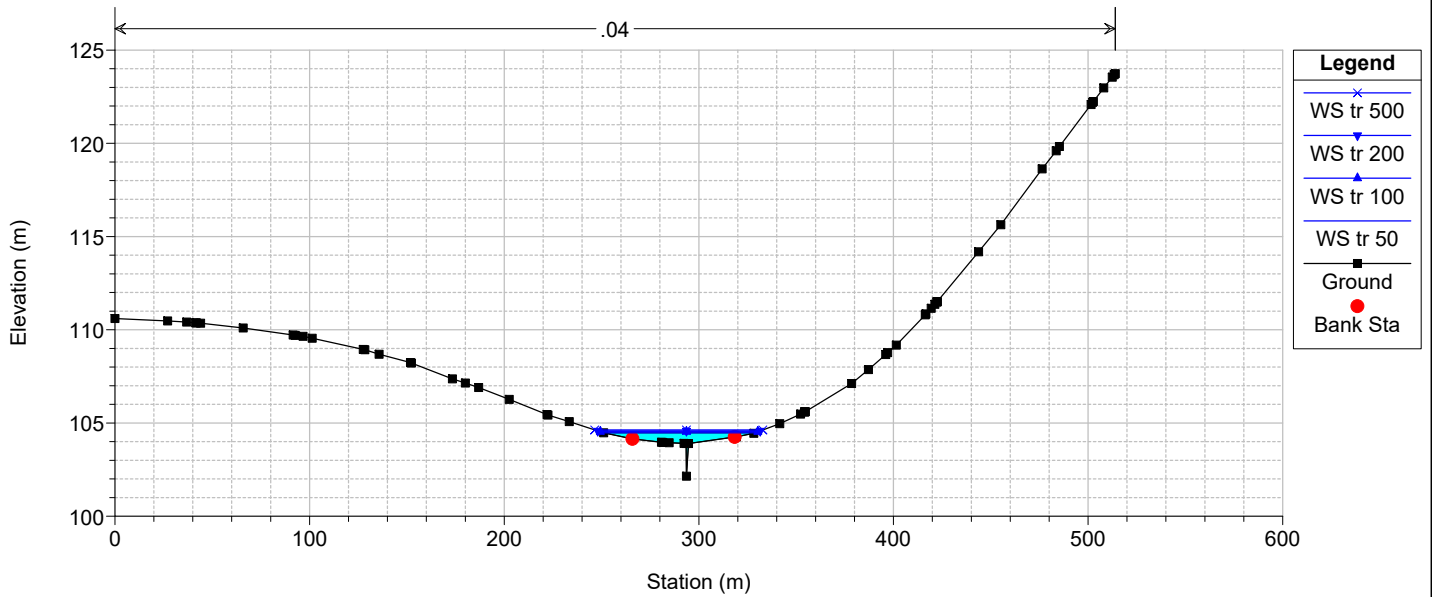
River = Fiume Santo Reach = Asta 1 RS = 16828.28 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

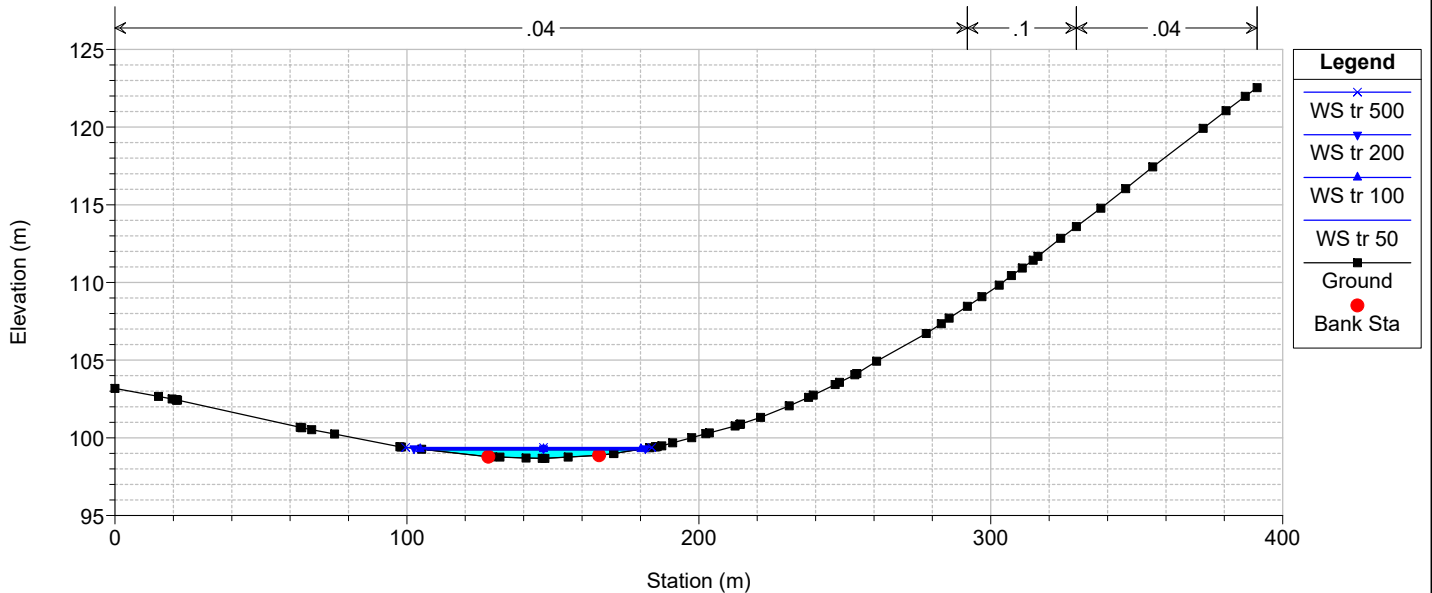
River = Fiume Santo Reach = Asta 1 RS = 16751.79 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

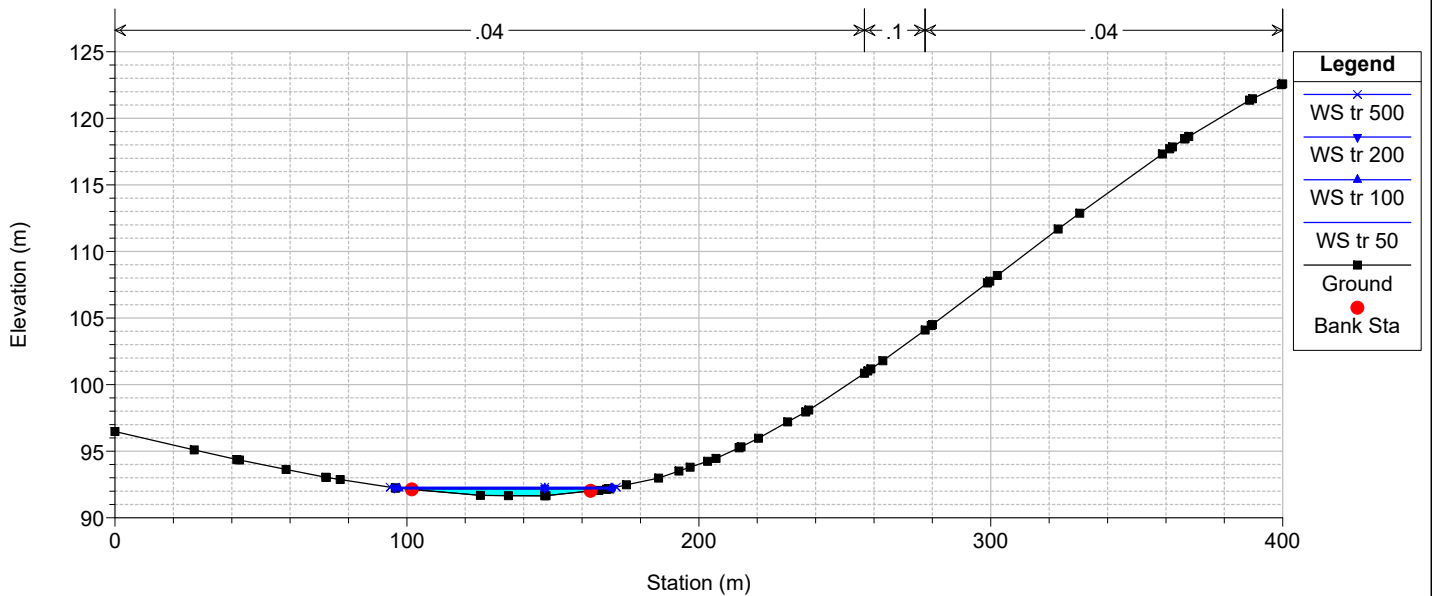
River = Fiume Santo Reach = Asta 1 RS = 16678.72 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

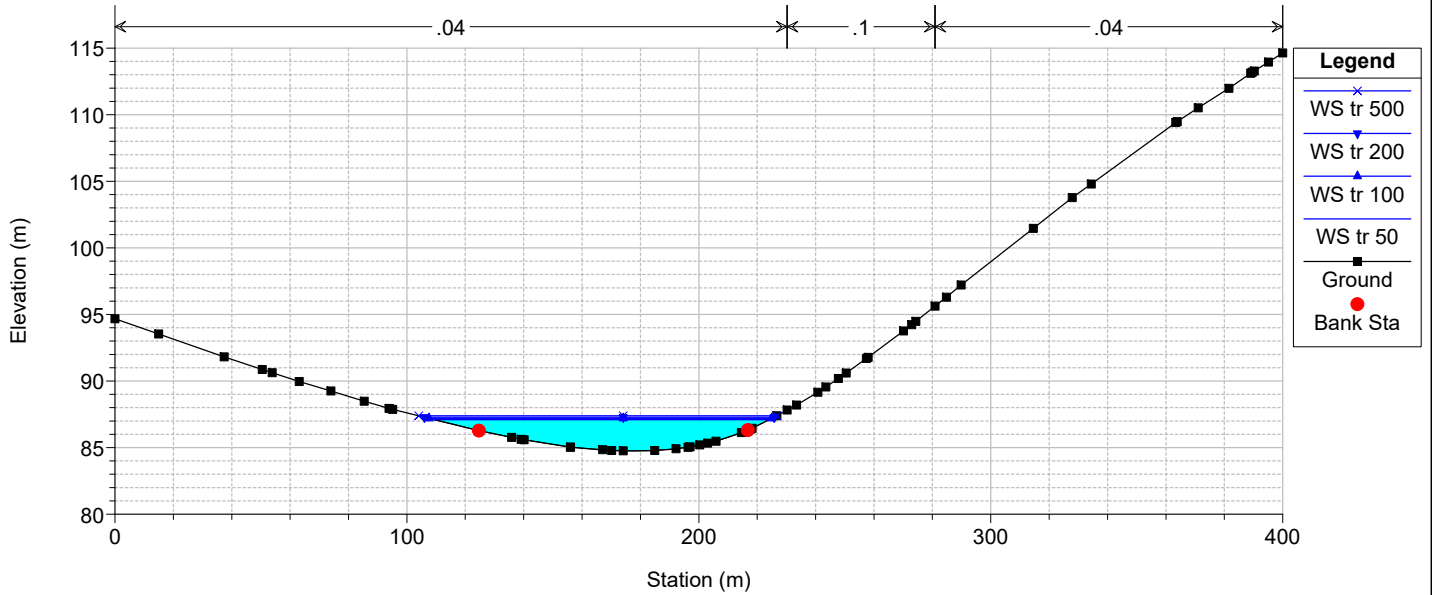
River = Fiume Santo Reach = Asta 1 RS = 16601.09 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

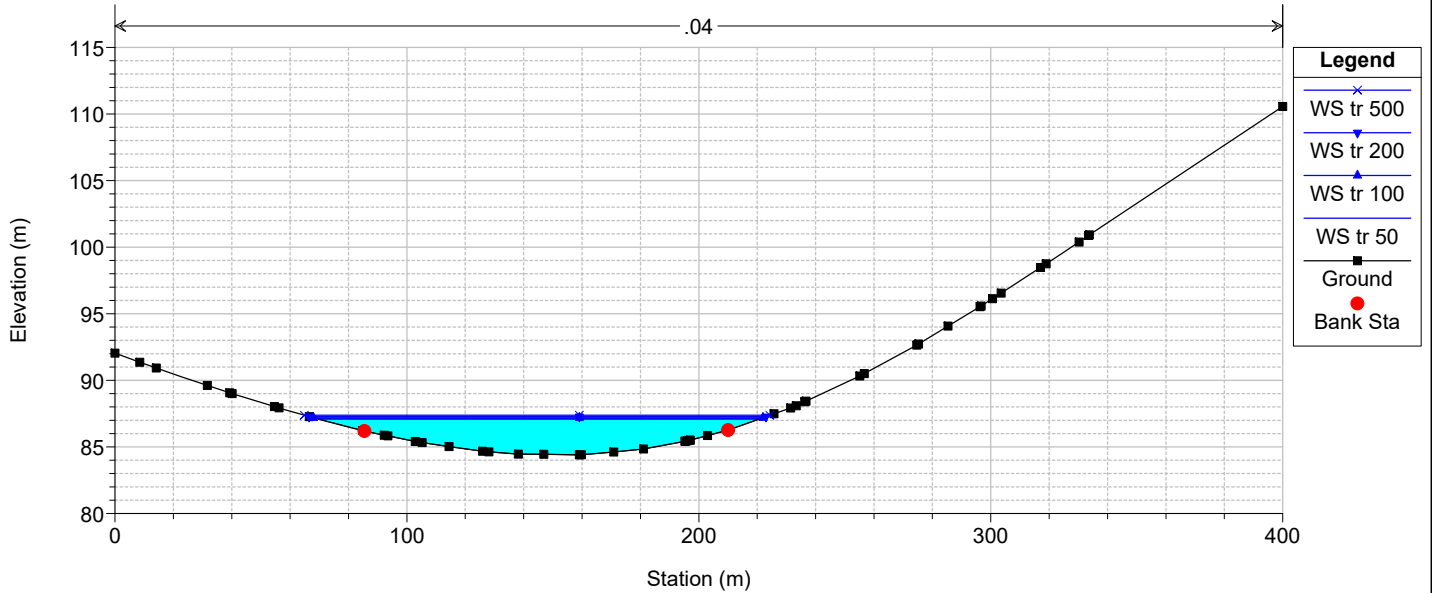
River = Fiume Santo Reach = Asta 1 RS = 16501.04 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

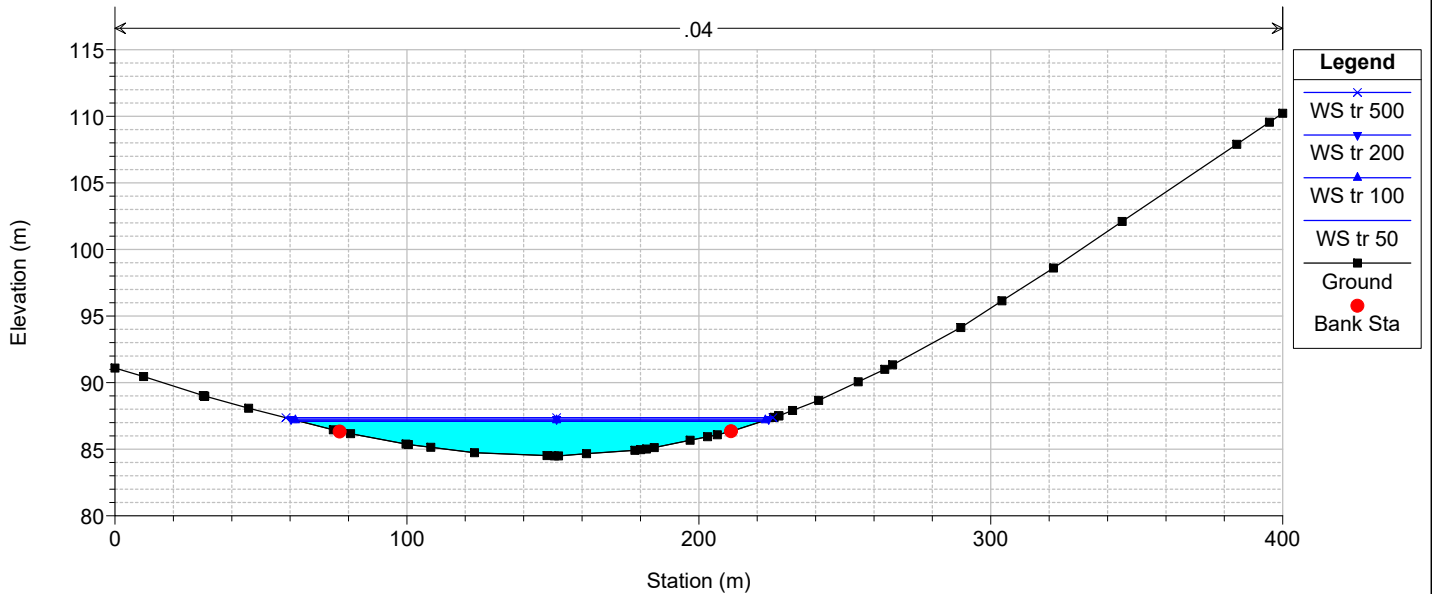
River = Fiume Santo Reach = Asta 1 RS = 16400.98 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

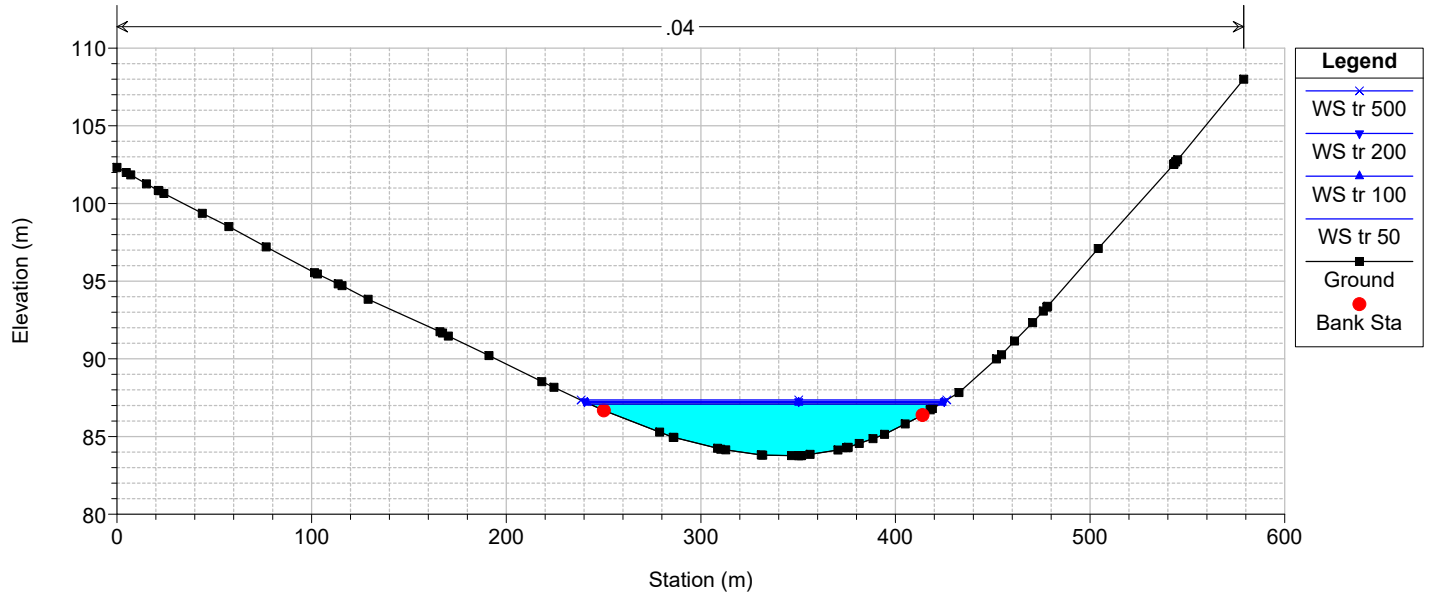
River = Fiume Santo Reach = Asta 1 RS = 16300.92 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

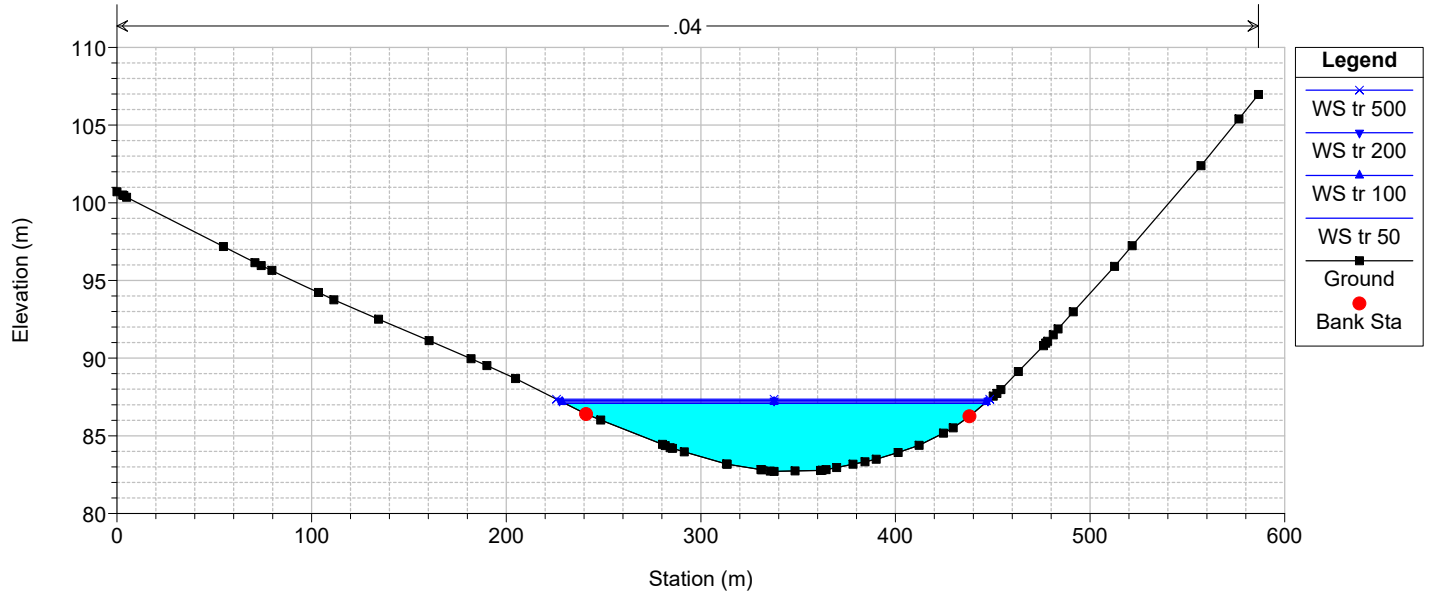
River = Fiume Santo Reach = Asta 1 RS = 16216.06 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

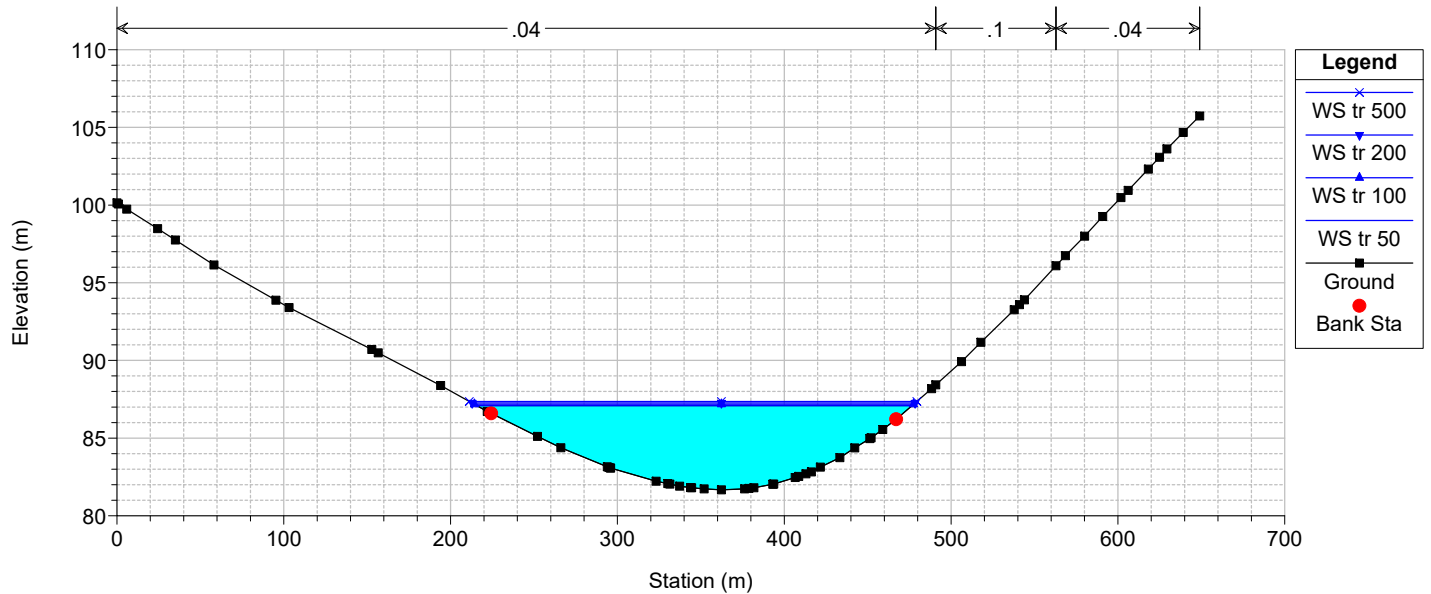
River = Fiume Santo Reach = Asta 1 RS = 16148.23 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

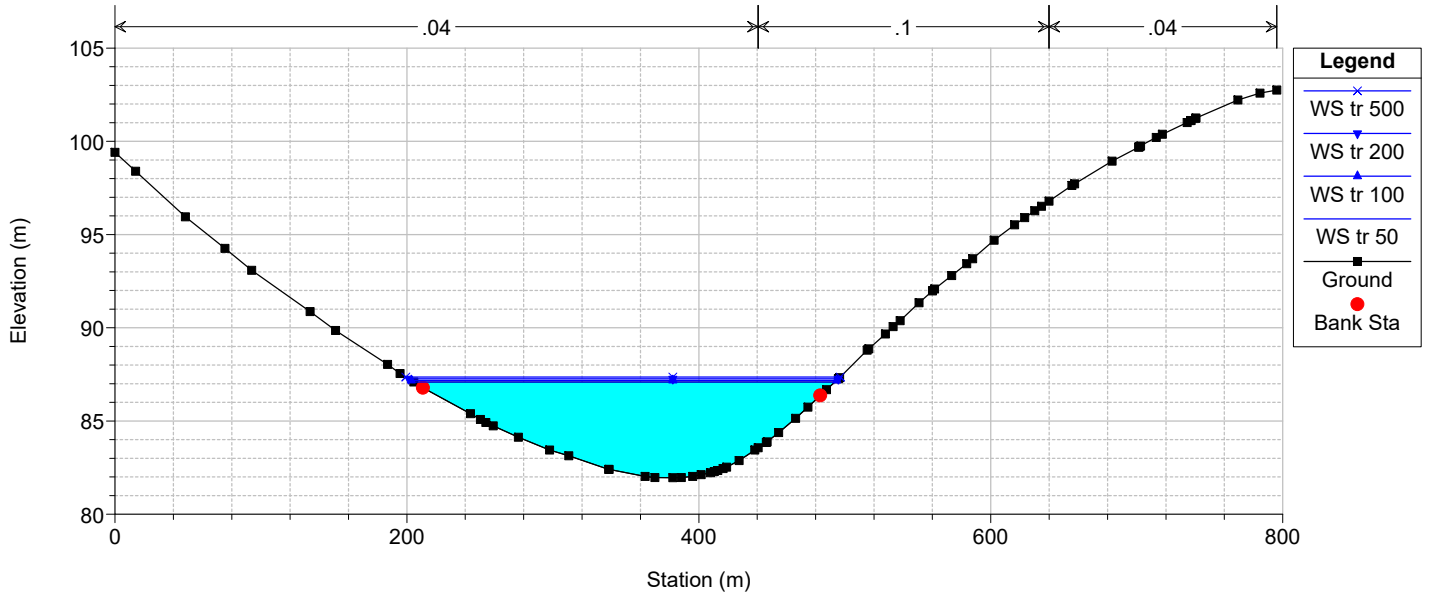
River = Fiume Santo Reach = Asta 1 RS = 16048.26 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

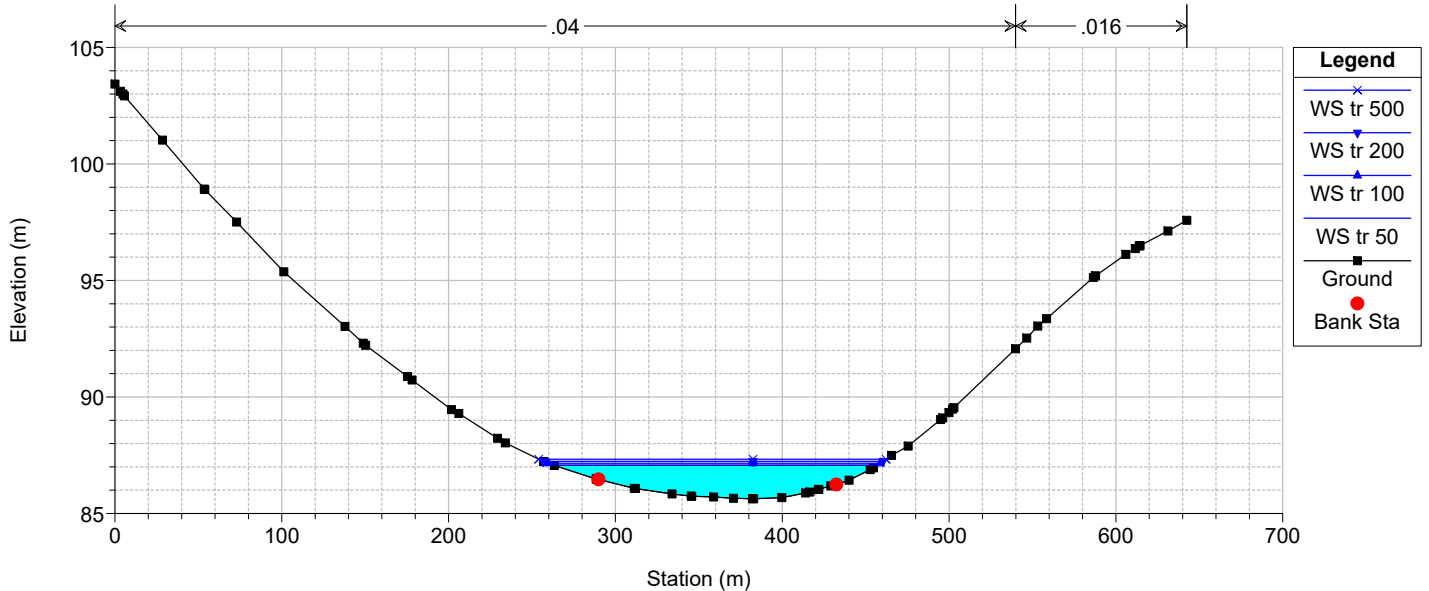
River = Fiume Santo Reach = Asta 1 RS = 15945.45 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

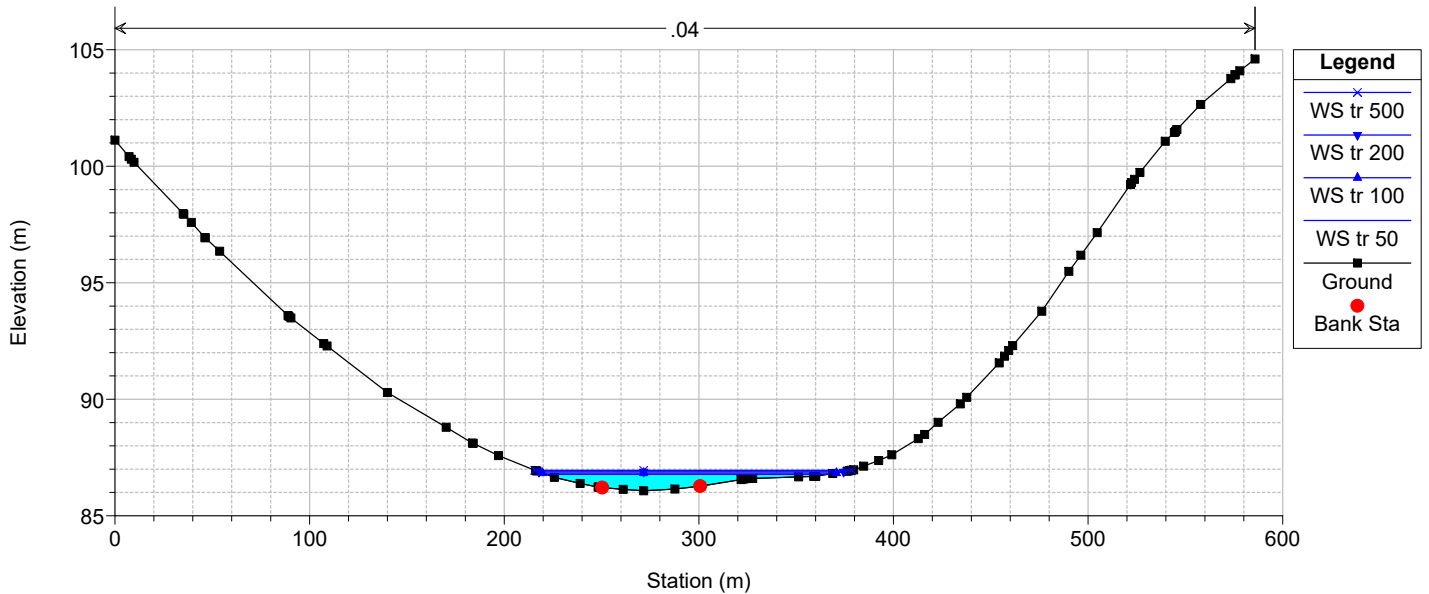
River = Fiume Santo Reach = Asta 1 RS = 15840.44 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

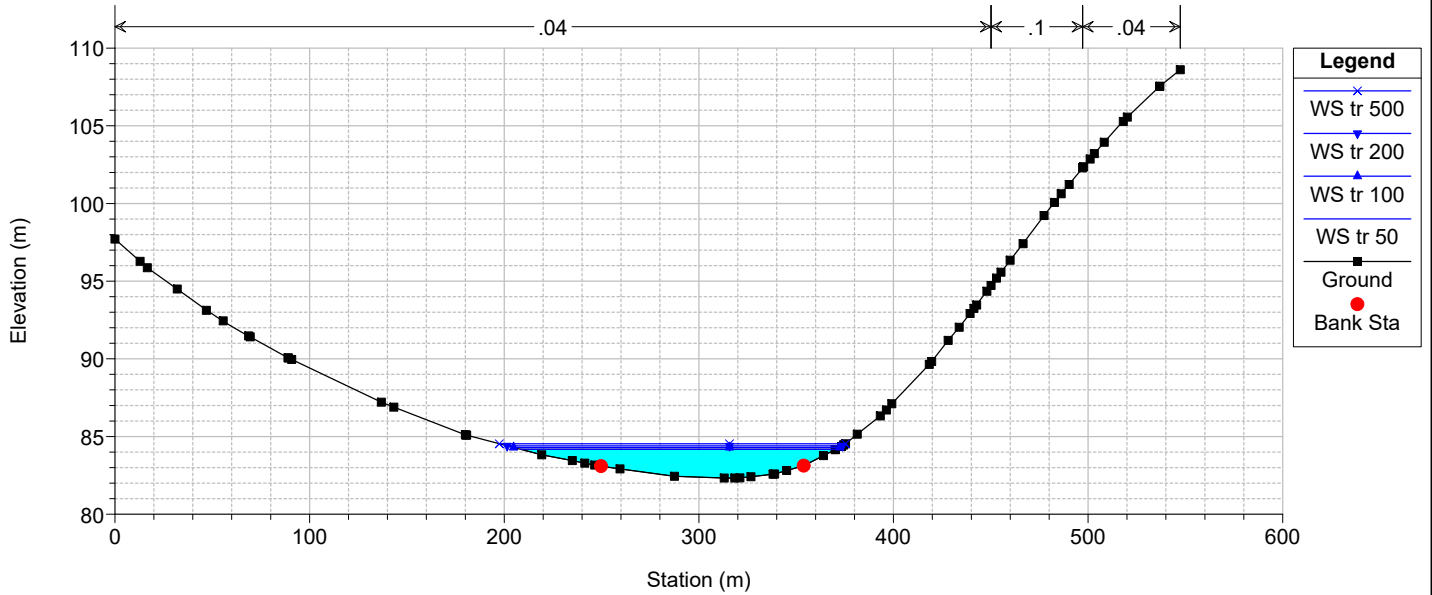
River = Fiume Santo Reach = Asta 1 RS = 15739.6 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

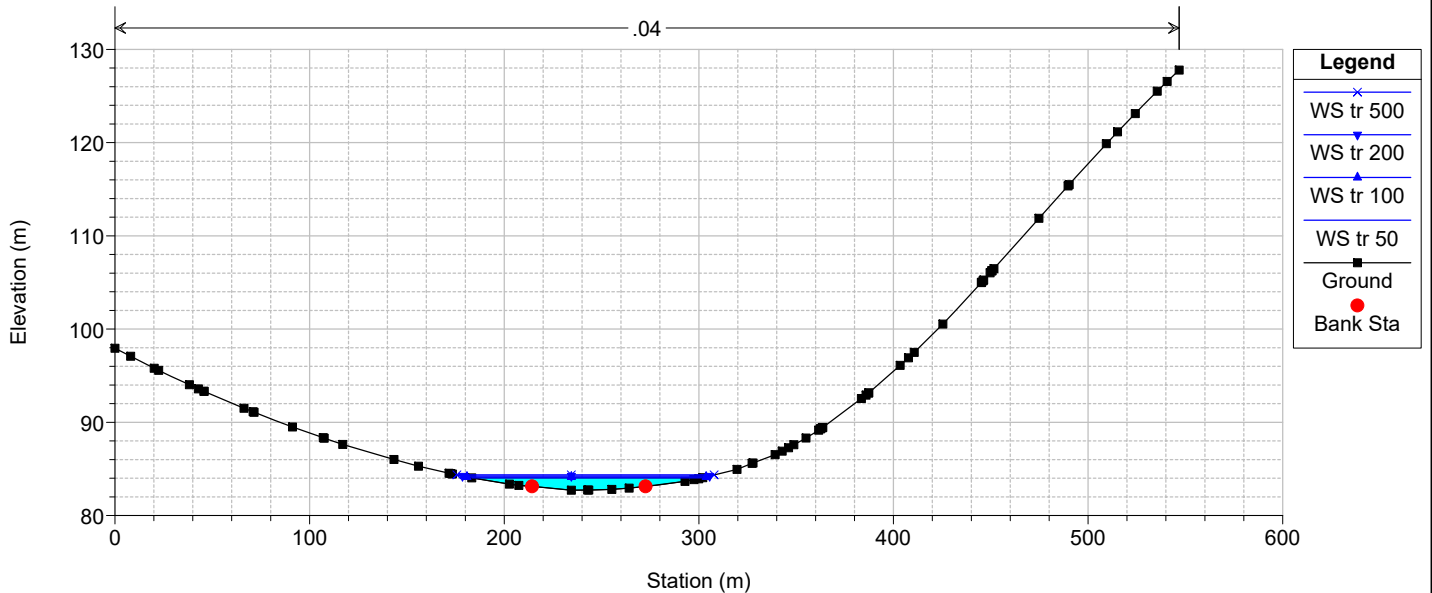
River = Fiume Santo Reach = Asta 1 RS = 15670.06 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

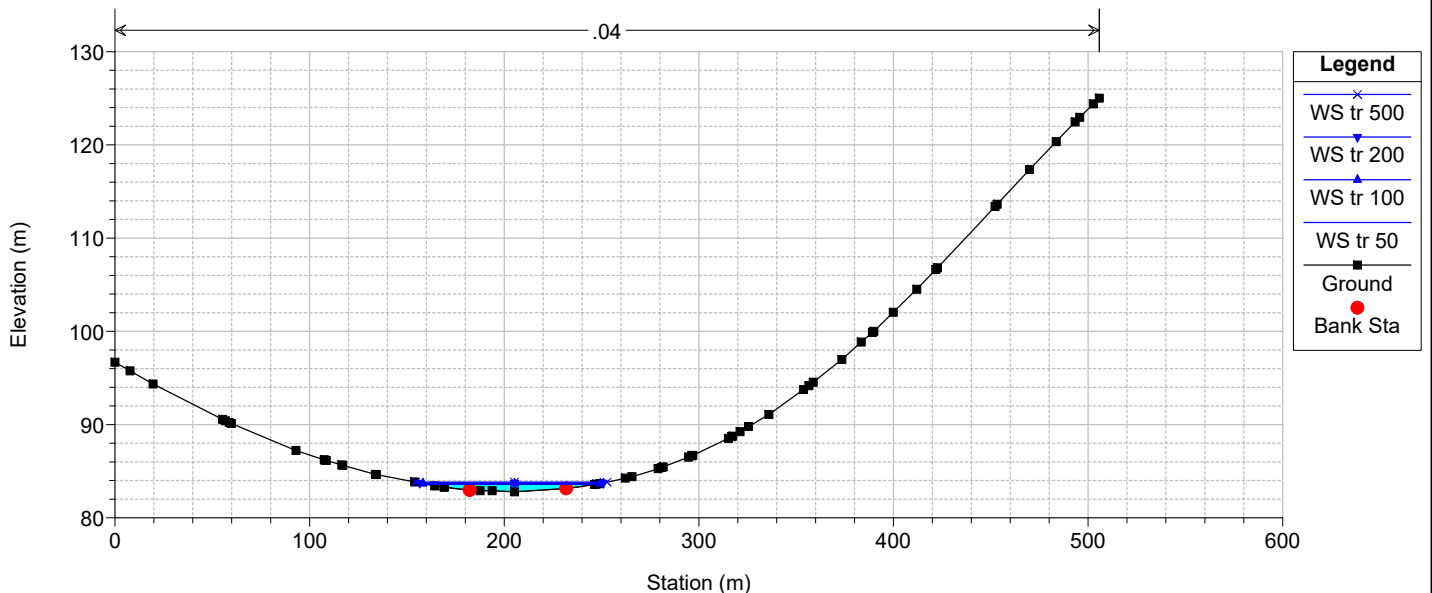
River = Fiume Santo Reach = Asta 1 RS = 15479.06 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

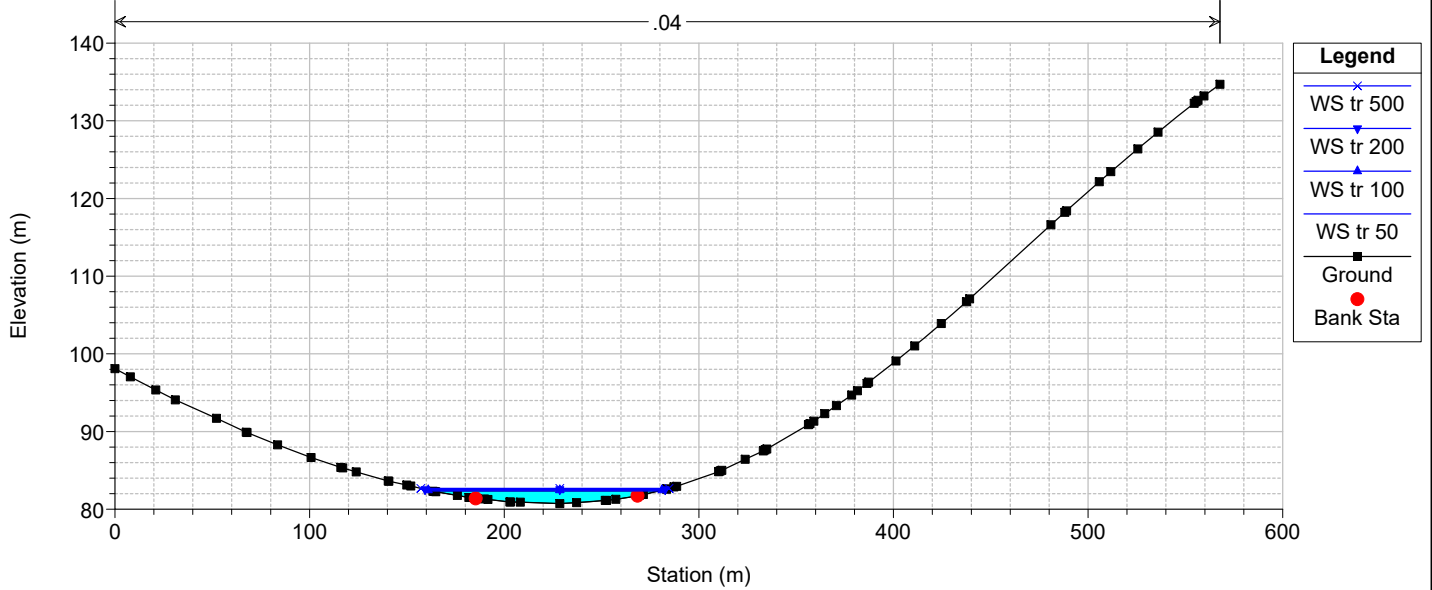
River = Fiume Santo Reach = Asta 1 RS = 15416.16 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

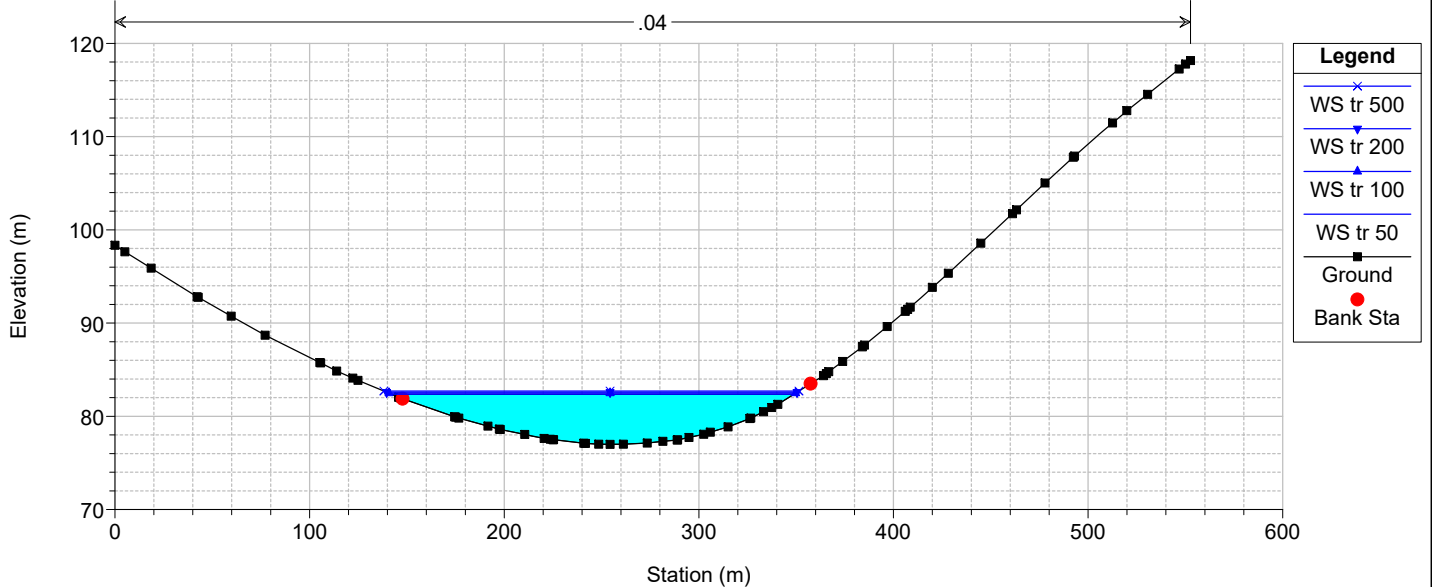
River = Fiume Santo Reach = Asta 1 RS = 15305.42 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

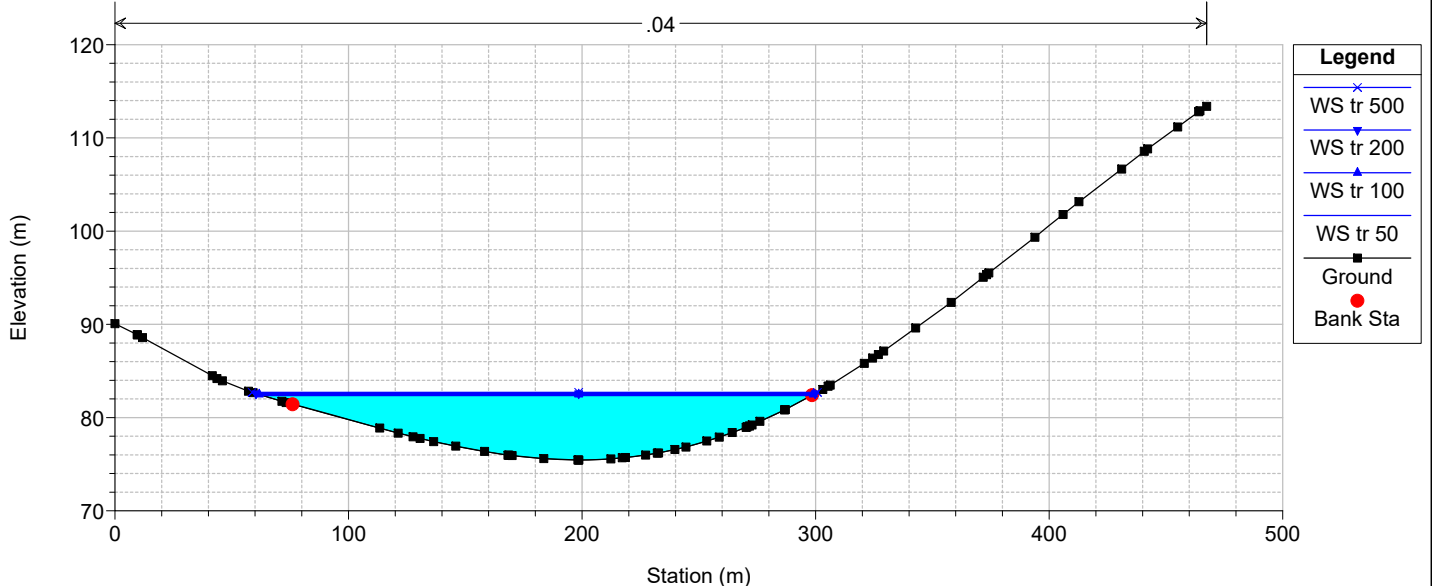
River = Fiume Santo Reach = Asta 1 RS = 15167.59 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

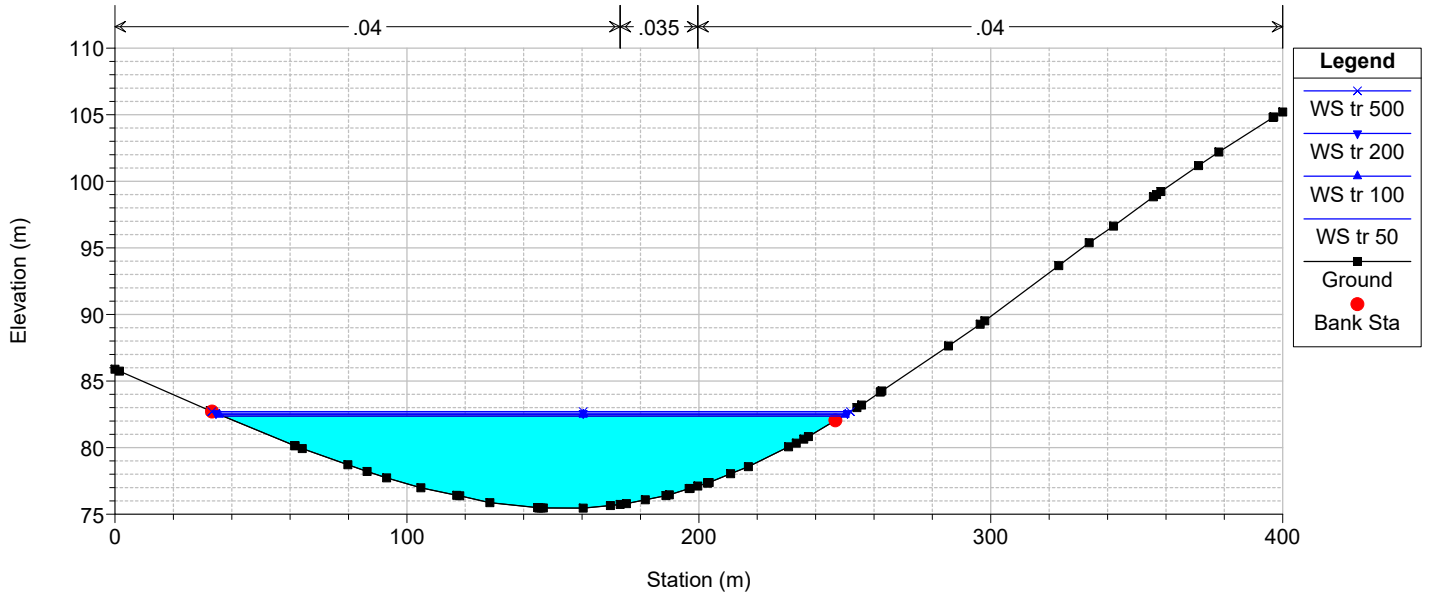
River = Fiume Santo Reach = Asta 1 RS = 15092.33 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

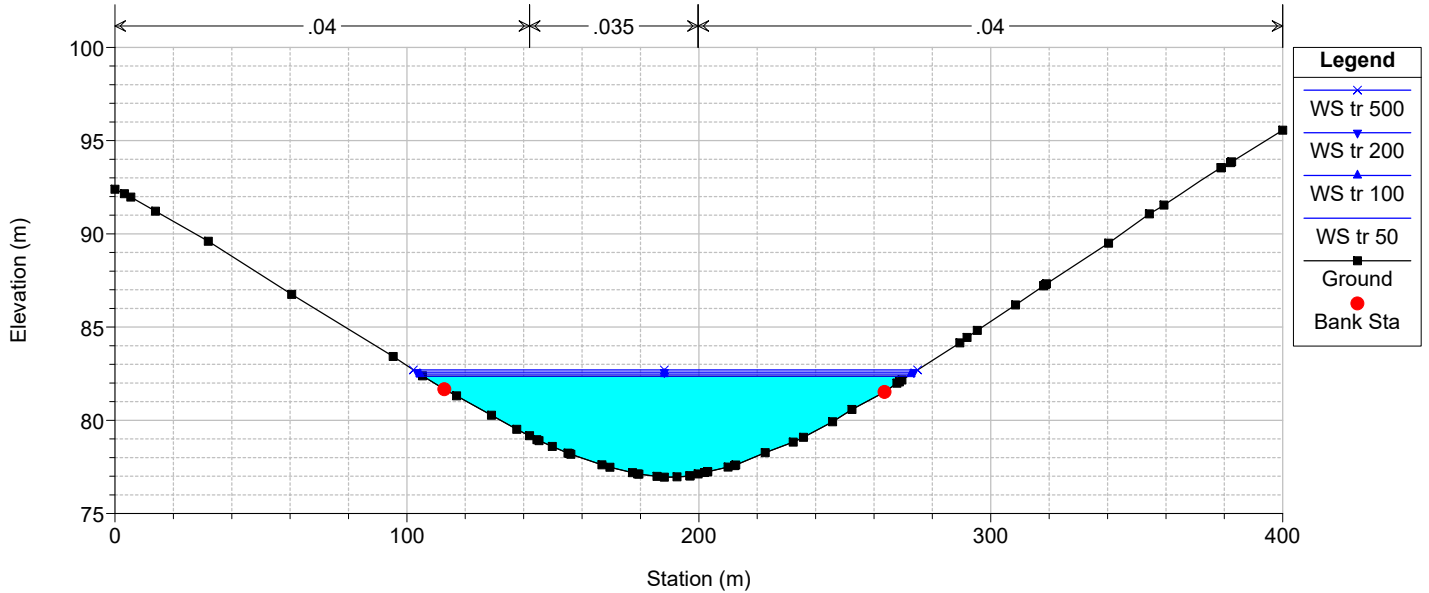
River = Fiume Santo Reach = Asta 1 RS = 15000.2 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

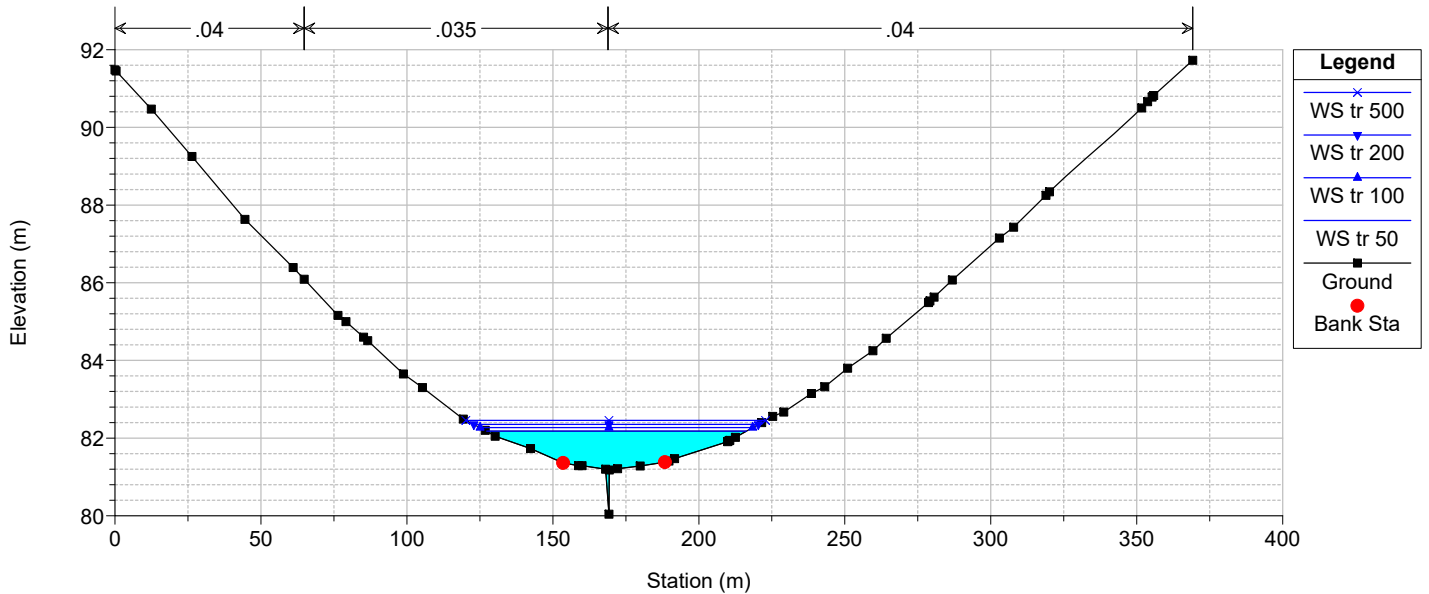
River = Fiume Santo Reach = Asta 1 RS = 14900.14 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

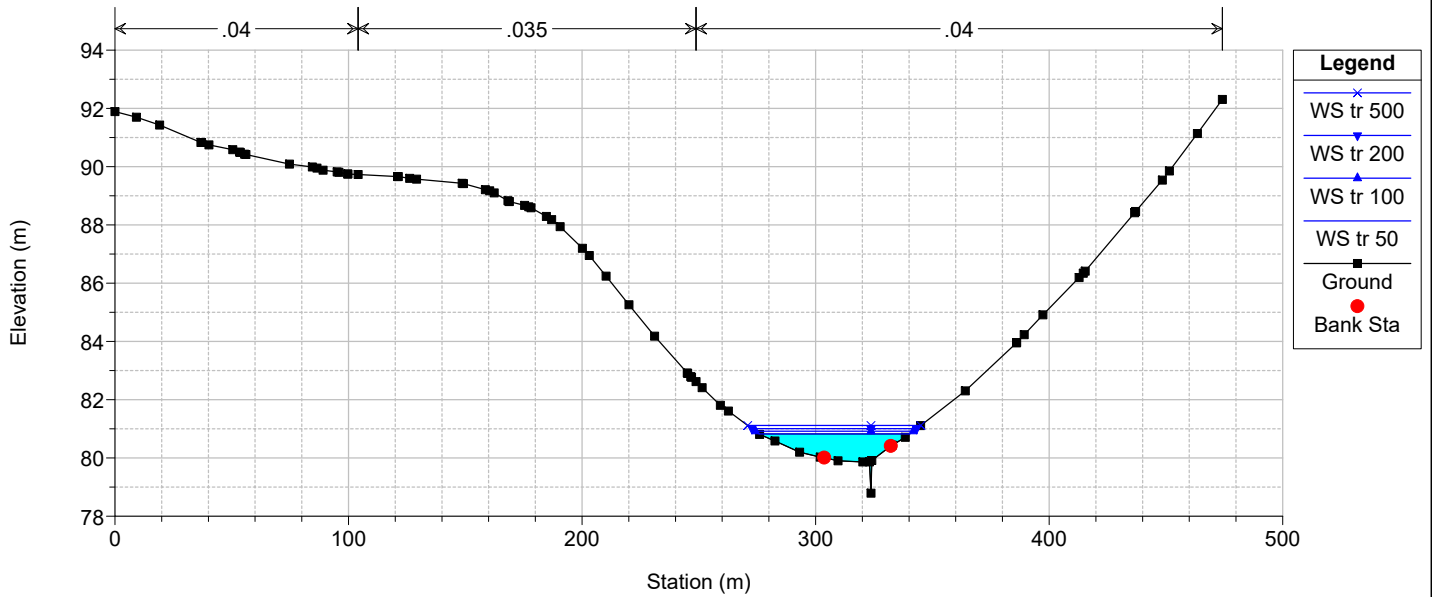
River = Fiume Santo Reach = Asta 1 RS = 14854.49 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

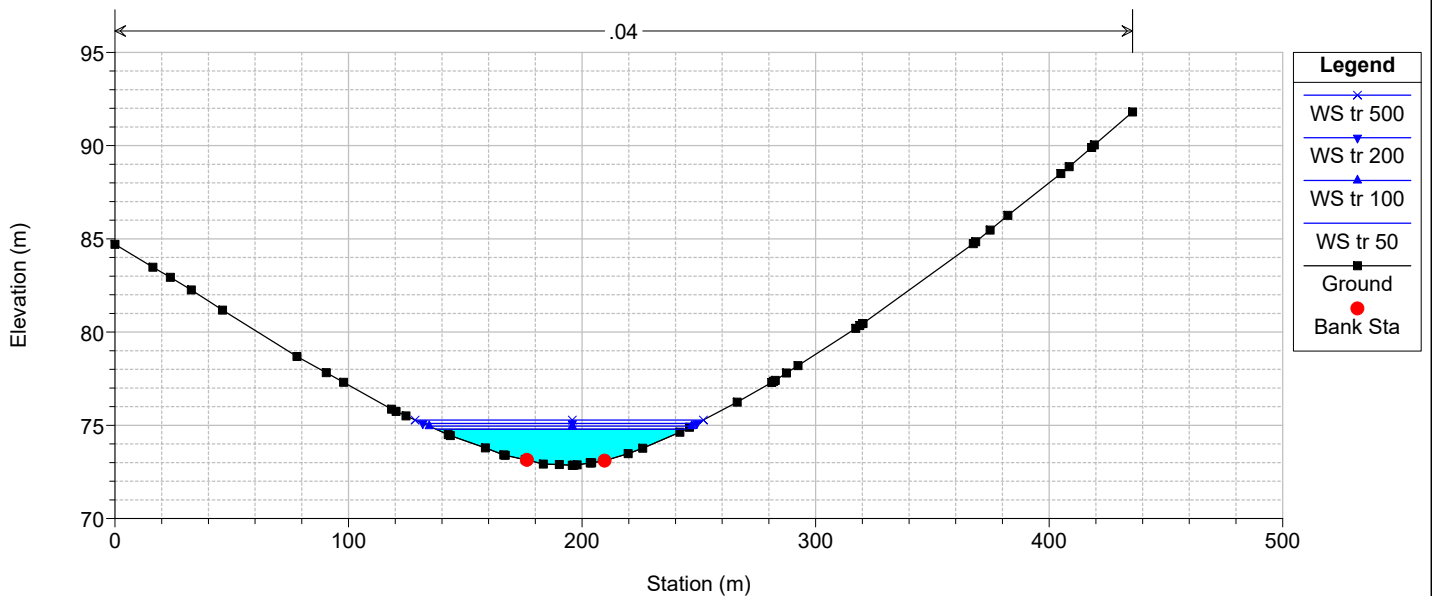
River = Fiume Santo Reach = Asta 1 RS = 14732.42 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

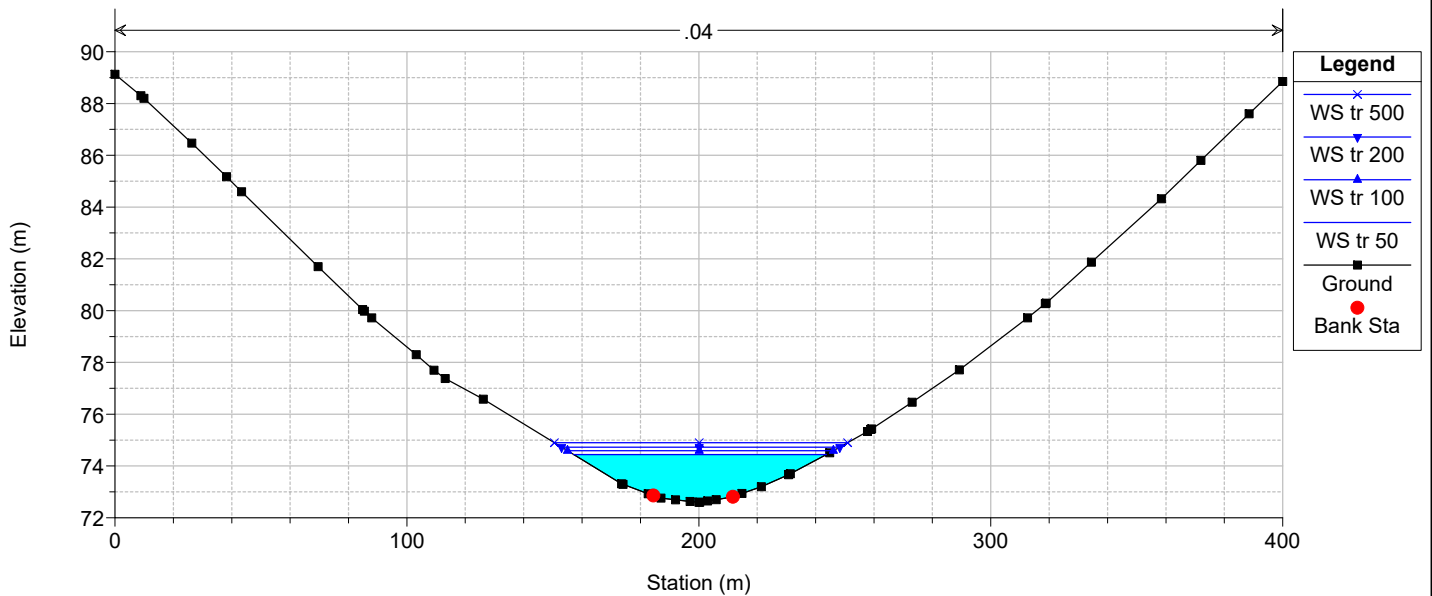
River = Fiume Santo Reach = Asta 2 RS = 14581.45 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

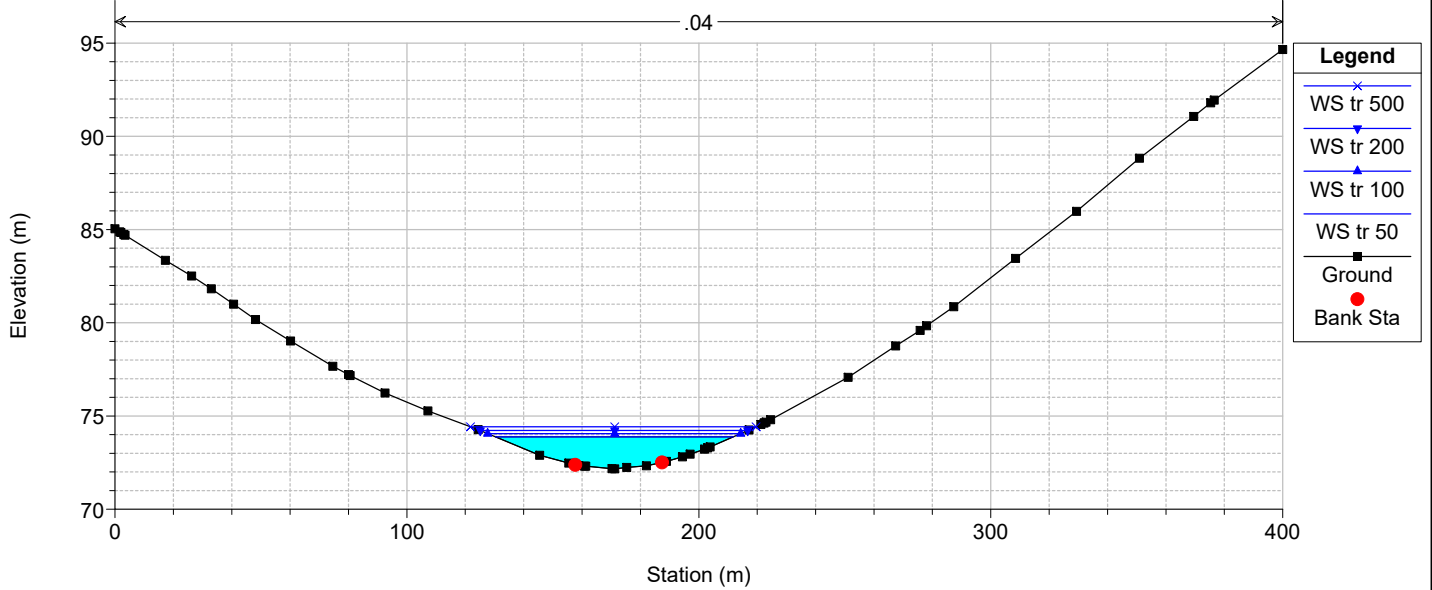
River = Fiume Santo Reach = Asta 2 RS = 14500 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

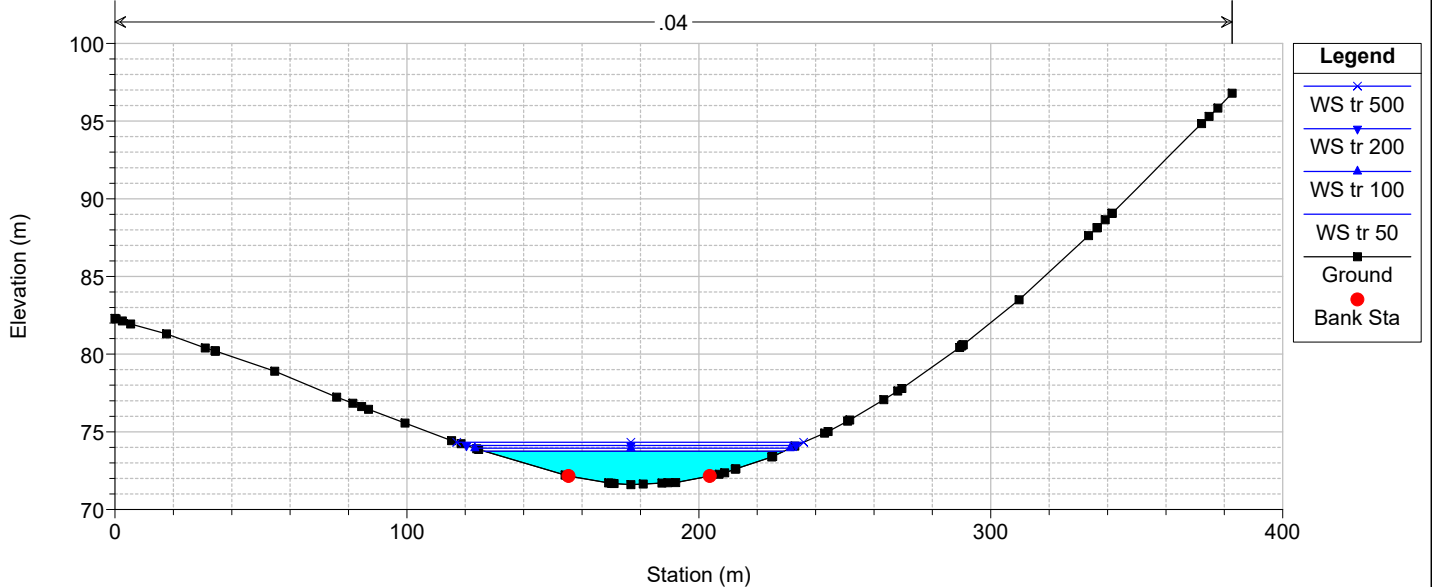
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fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

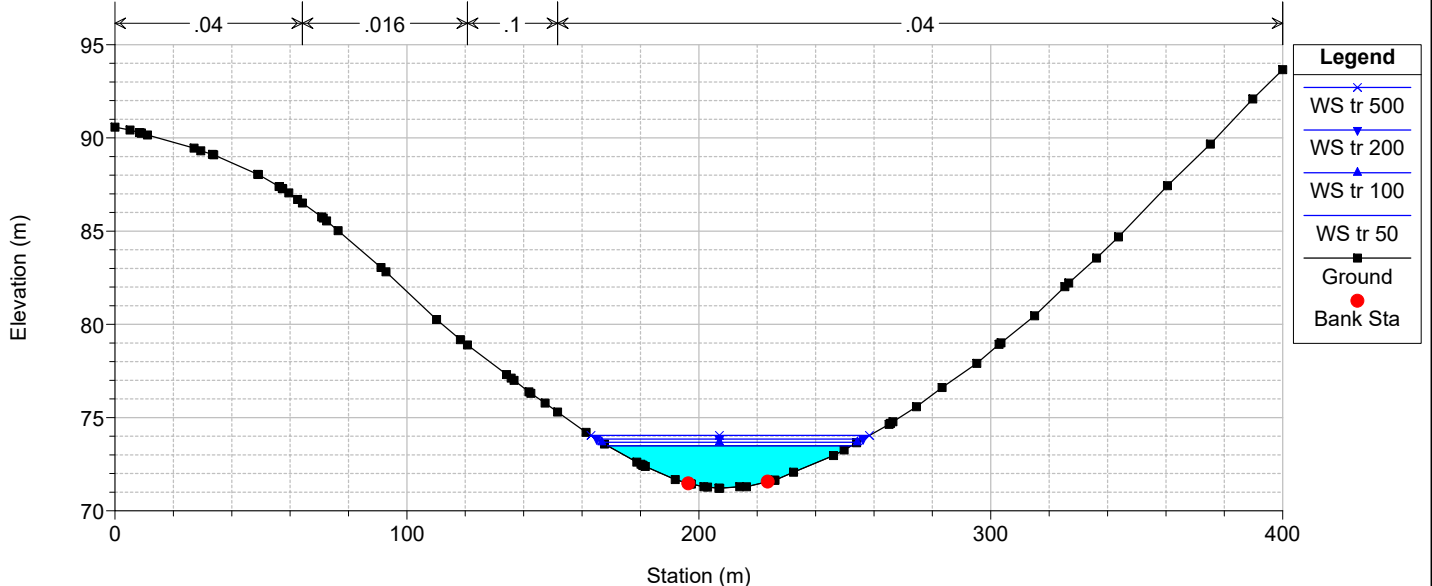
River = Fiume Santo Reach = Asta 2 RS = 14315 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

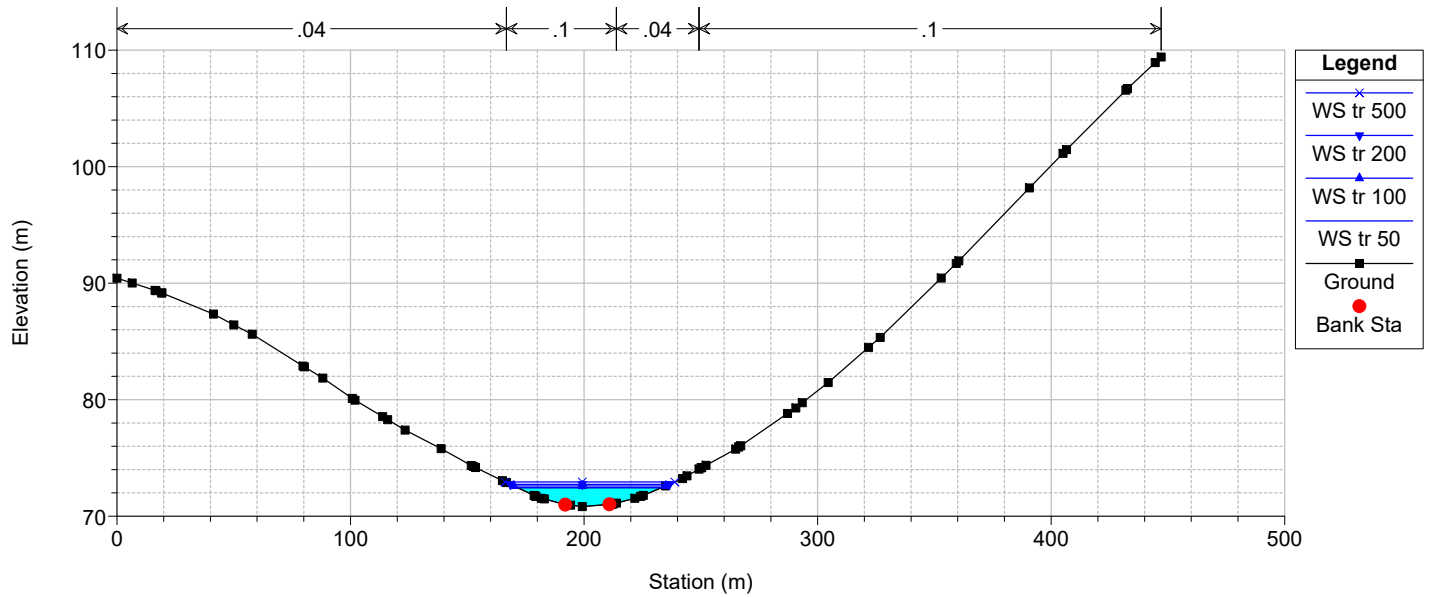
River = Fiume Santo Reach = Asta 2 RS = 14200 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

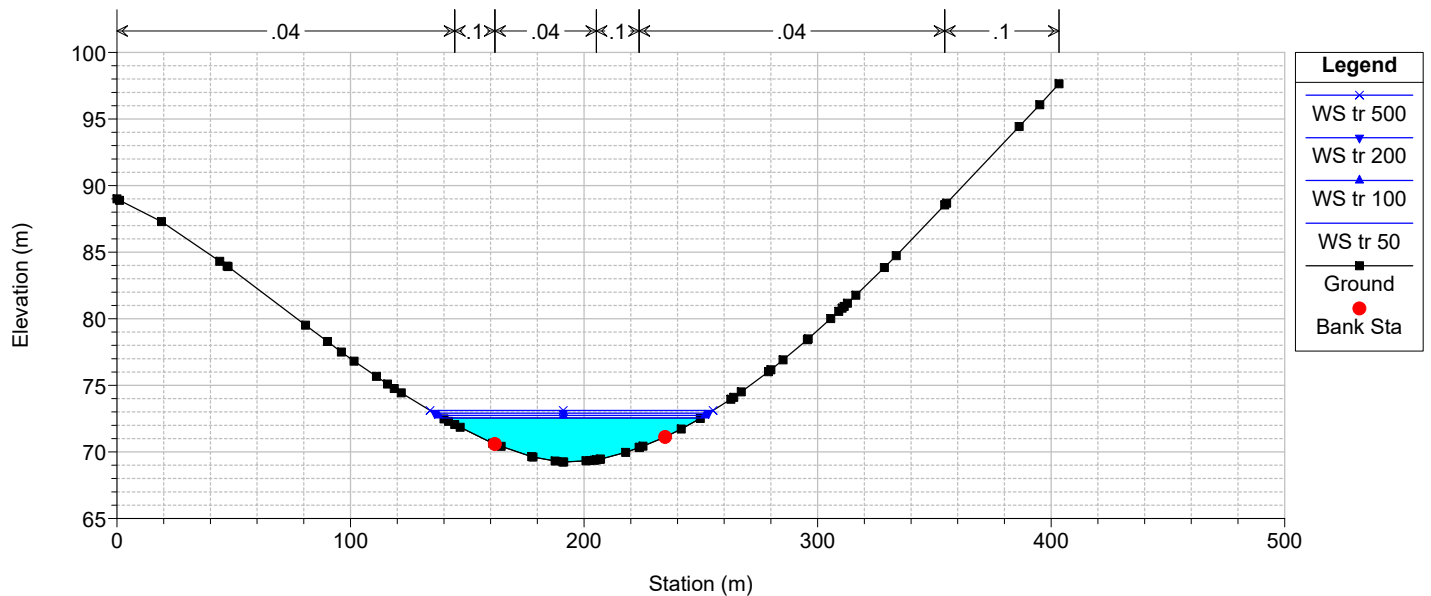
River = Fiume Santo Reach = Asta 2 RS = 14100.13 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

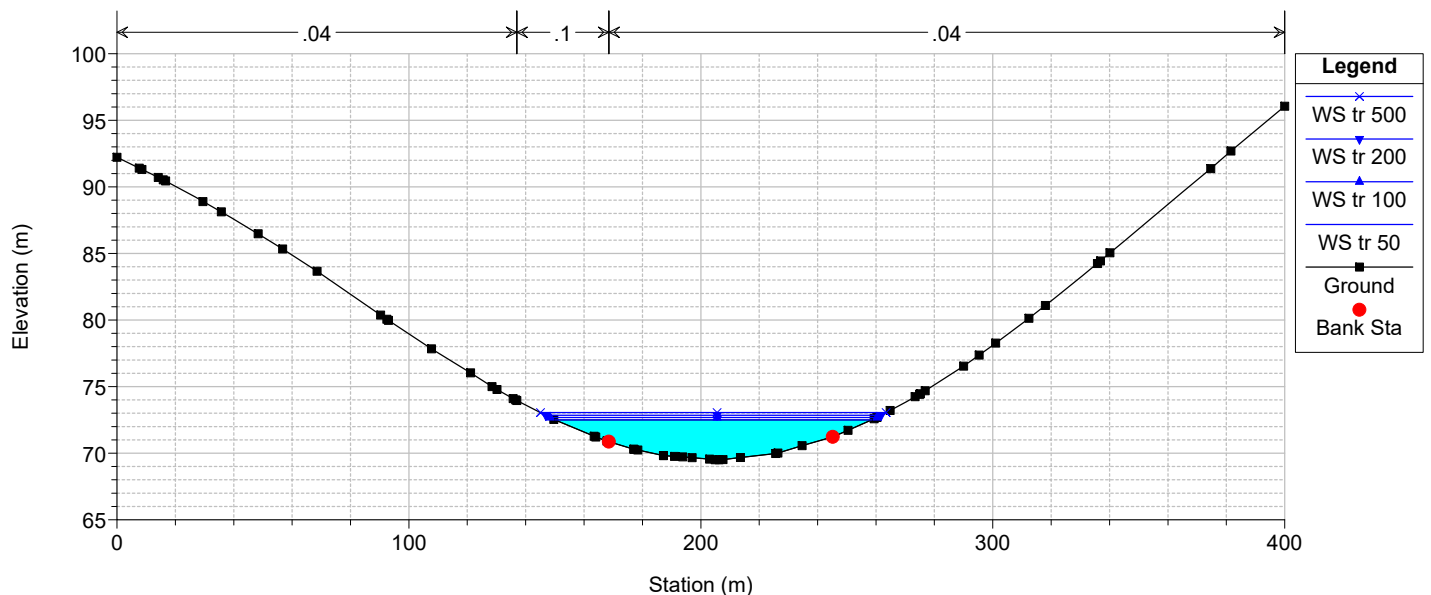
River = Fiume Santo Reach = Asta 2 RS = 13980.6 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

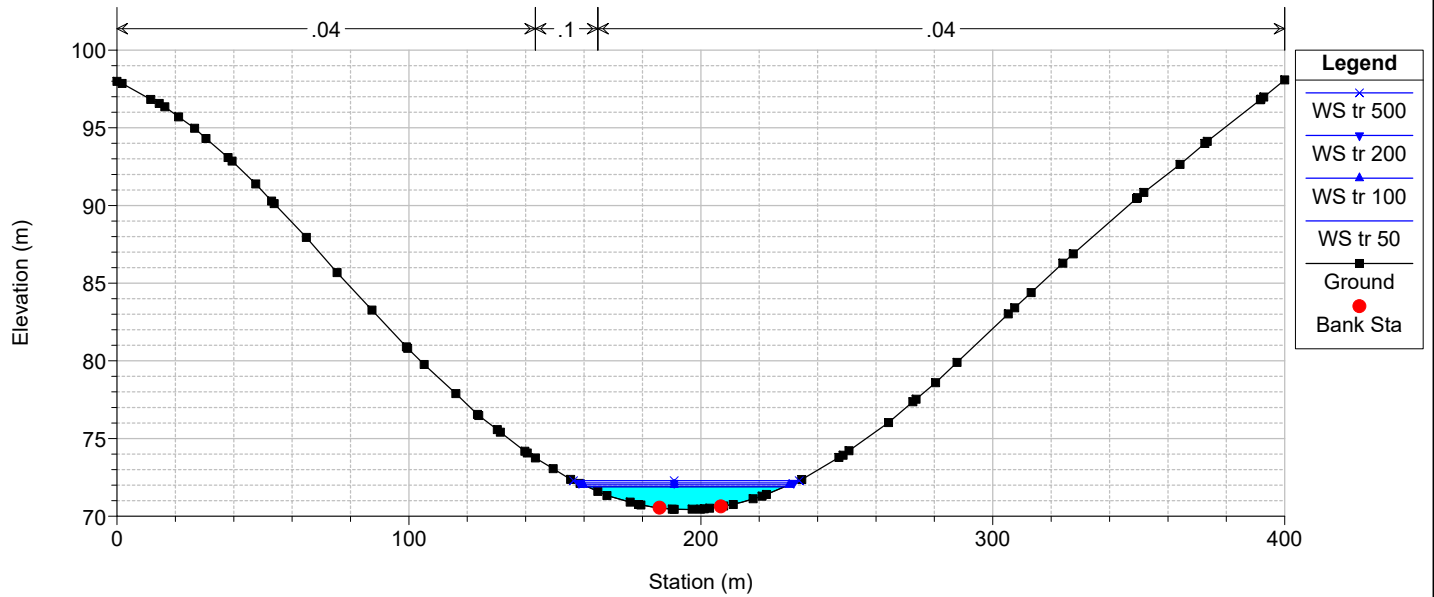
River = Fiume Santo Reach = Asta 2 RS = 13900 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

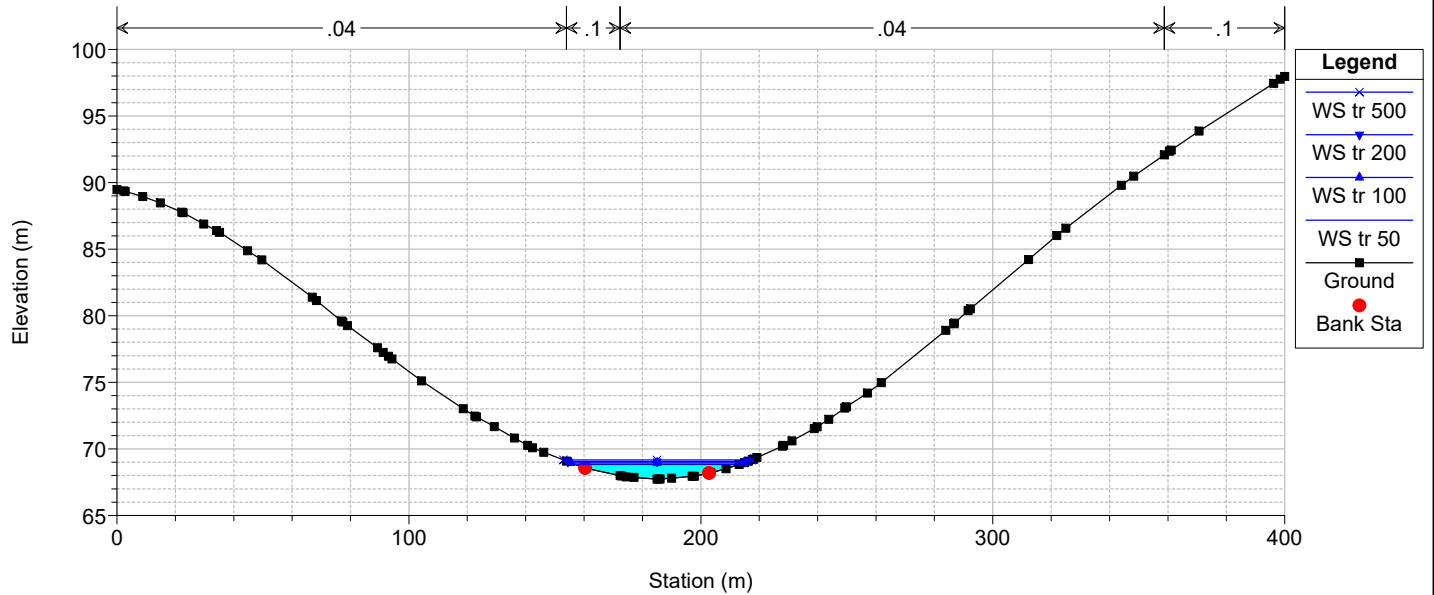
River = Fiume Santo Reach = Asta 2 RS = 13800 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

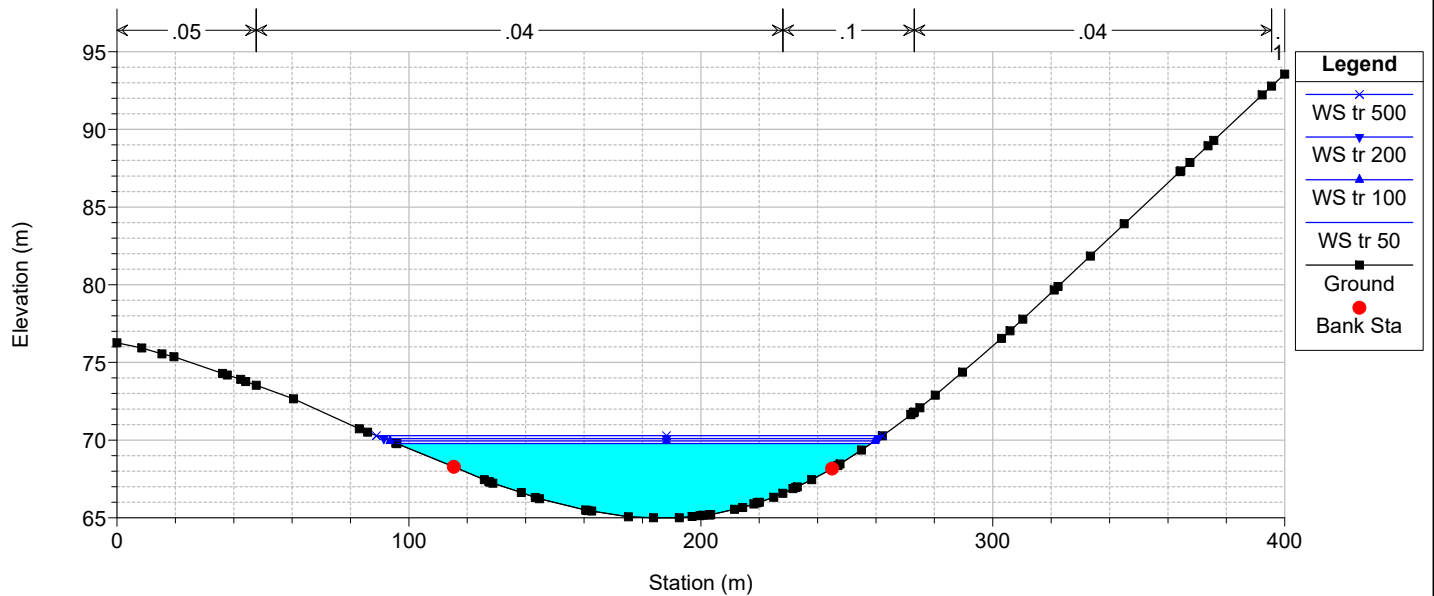
River = Fiume Santo Reach = Asta 2 RS = 13700 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

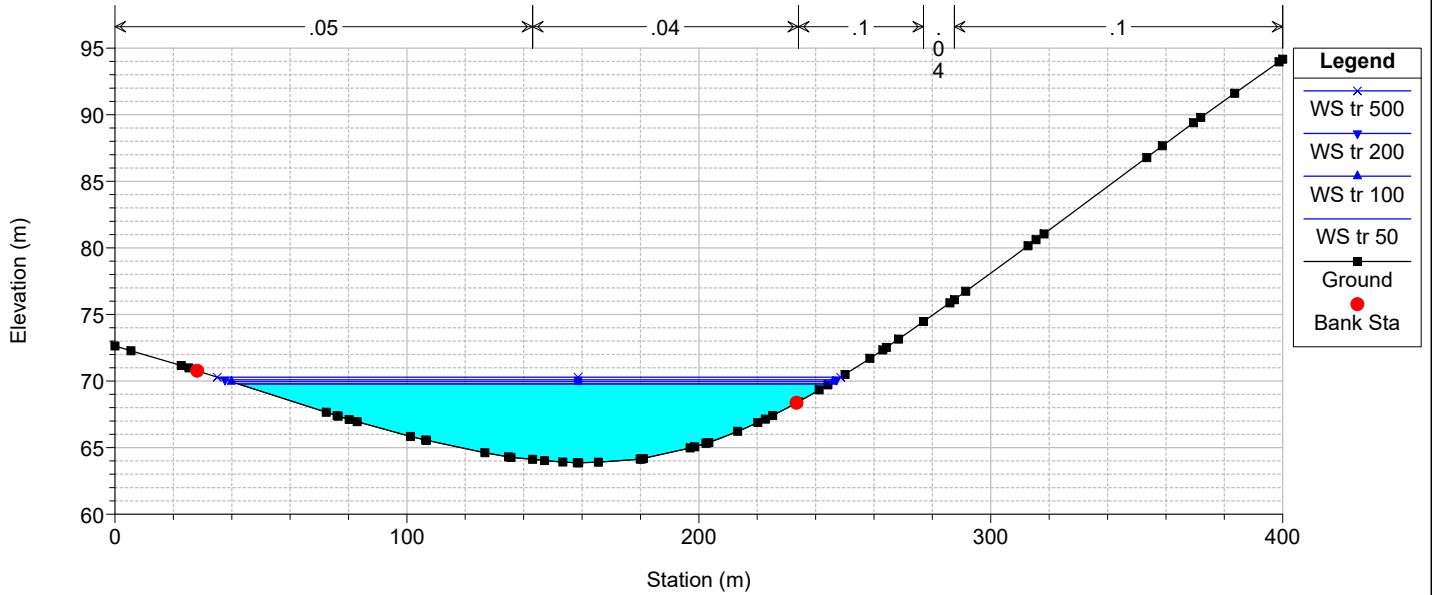
River = Fiume Santo Reach = Asta 2 RS = 13600 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

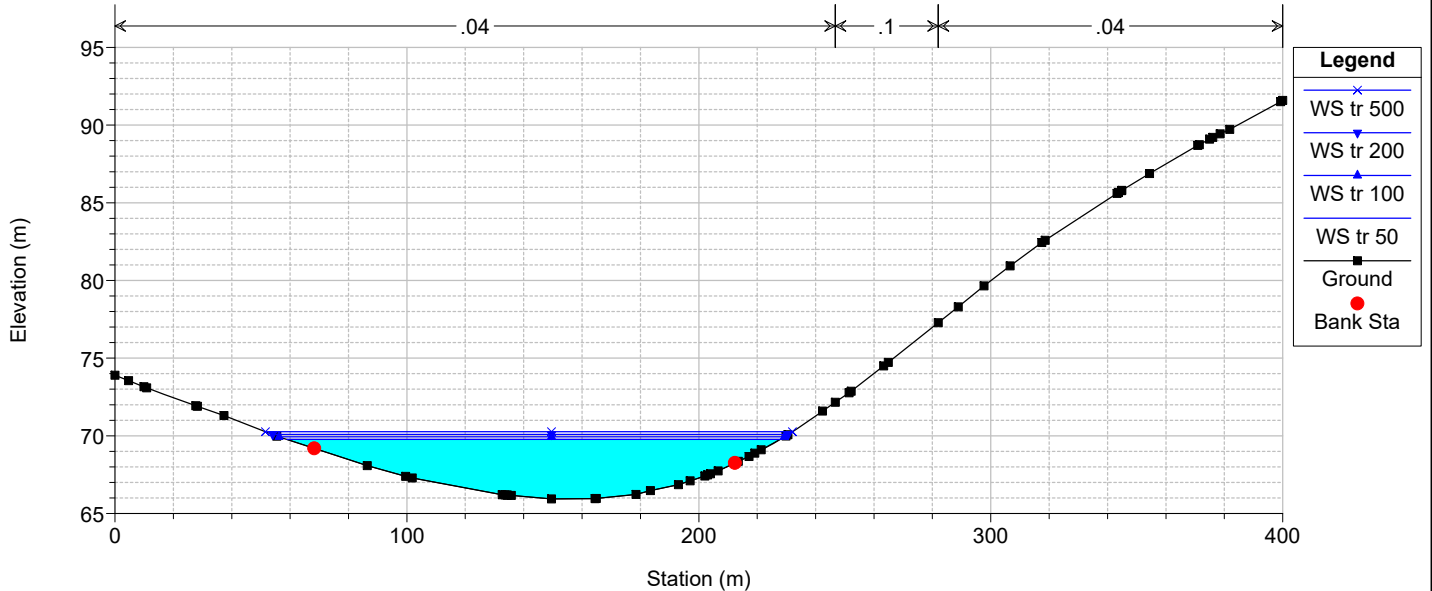
River = Fiume Santo Reach = Asta 2 RS = 13500 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

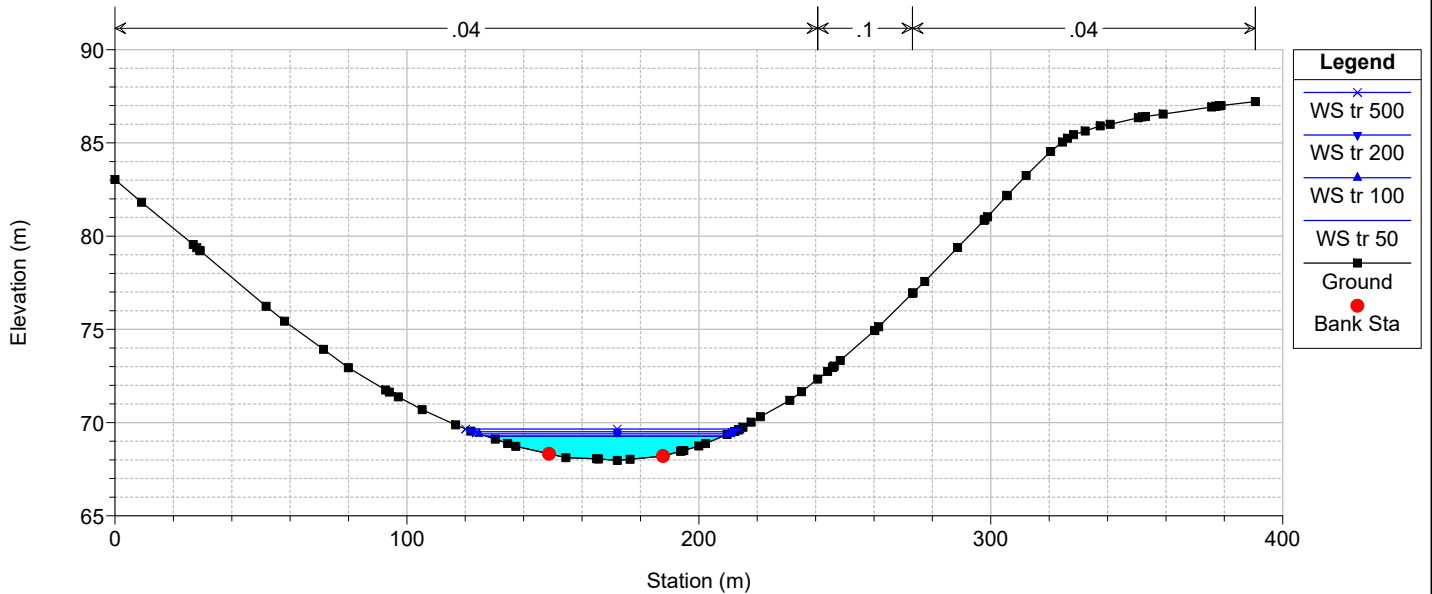
River = Fiume Santo Reach = Asta 2 RS = 13400 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

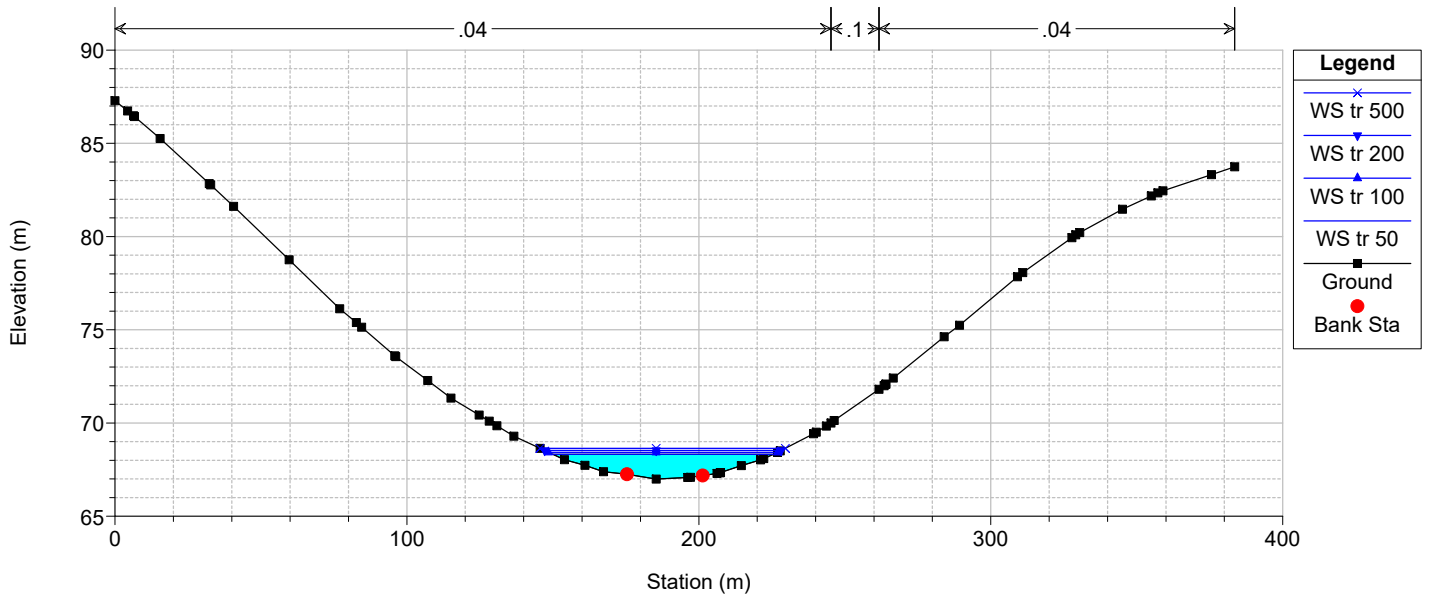
River = Fiume Santo Reach = Asta 2 RS = 13307.89 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

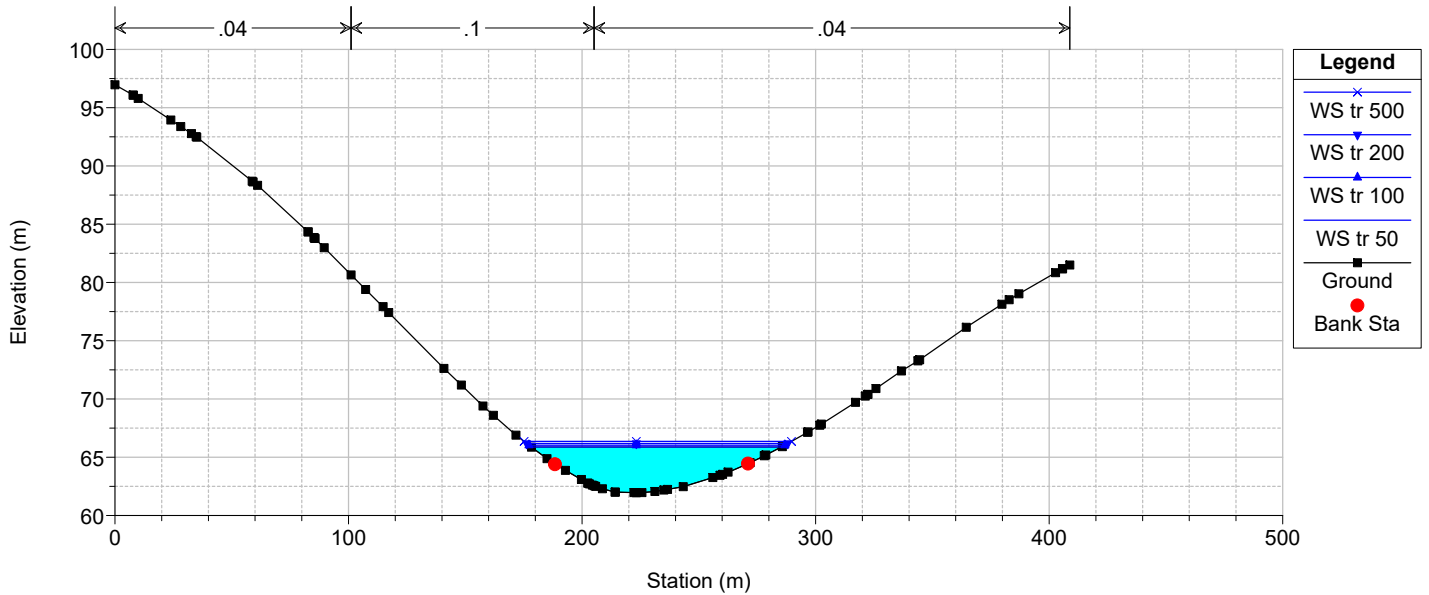
River = Fiume Santo Reach = Asta 2 RS = 13245.53 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

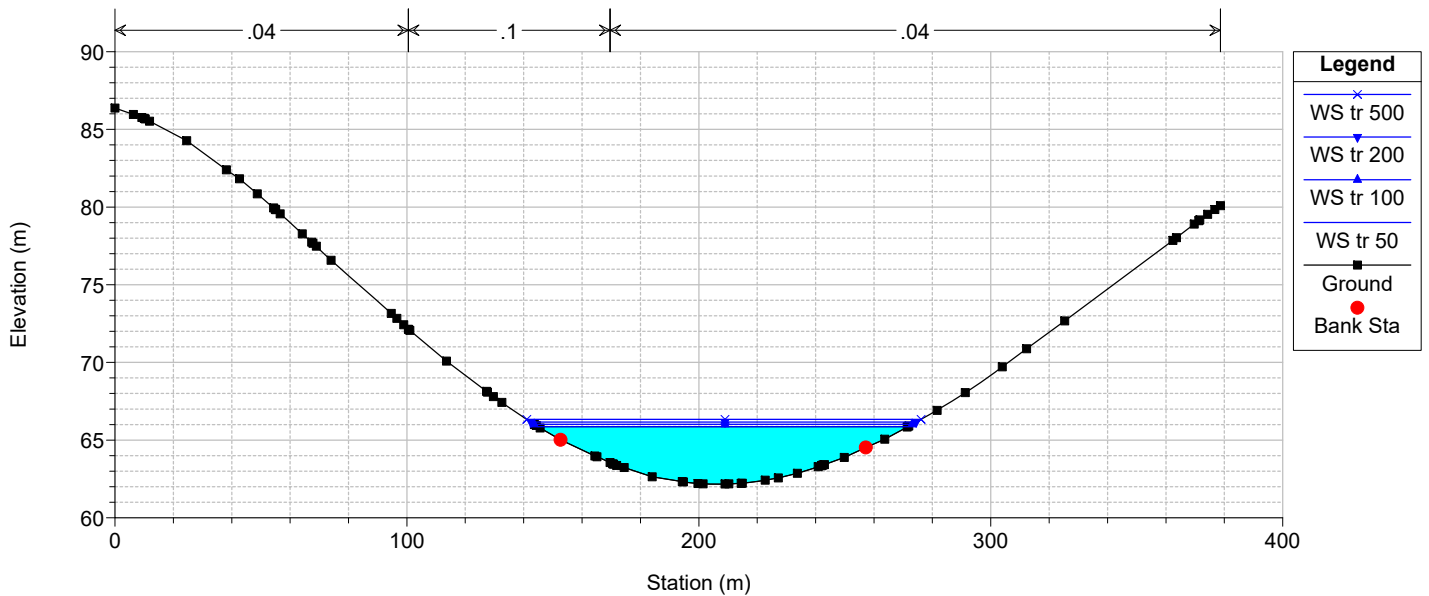
River = Fiume Santo Reach = Asta 2 RS = 13132.53 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

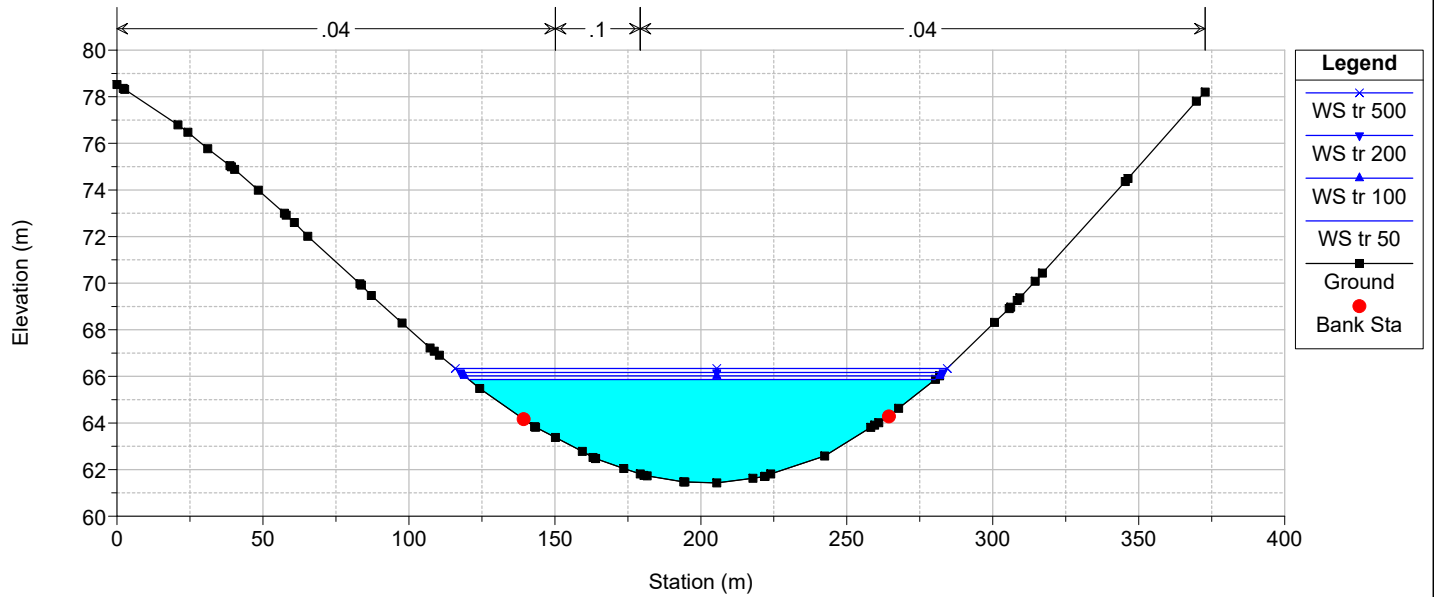
River = Fiume Santo Reach = Asta 2 RS = 13042.78 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

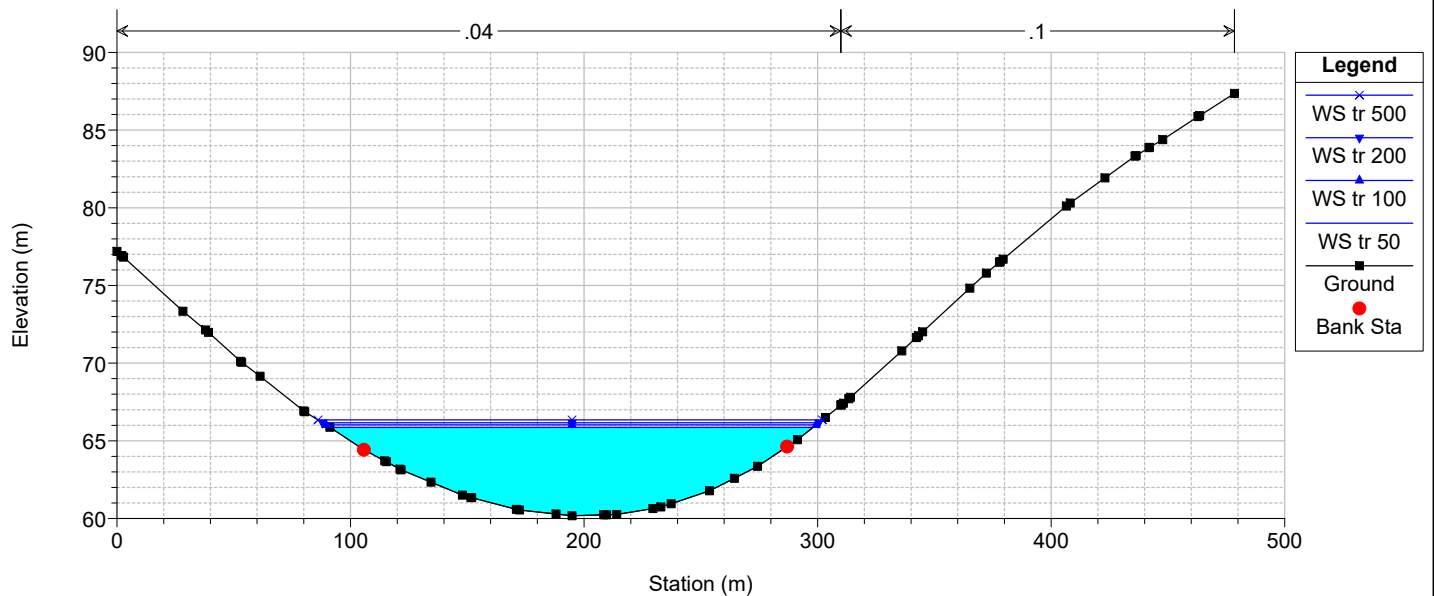
River = Fiume Santo Reach = Asta 2 RS = 12996.71 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

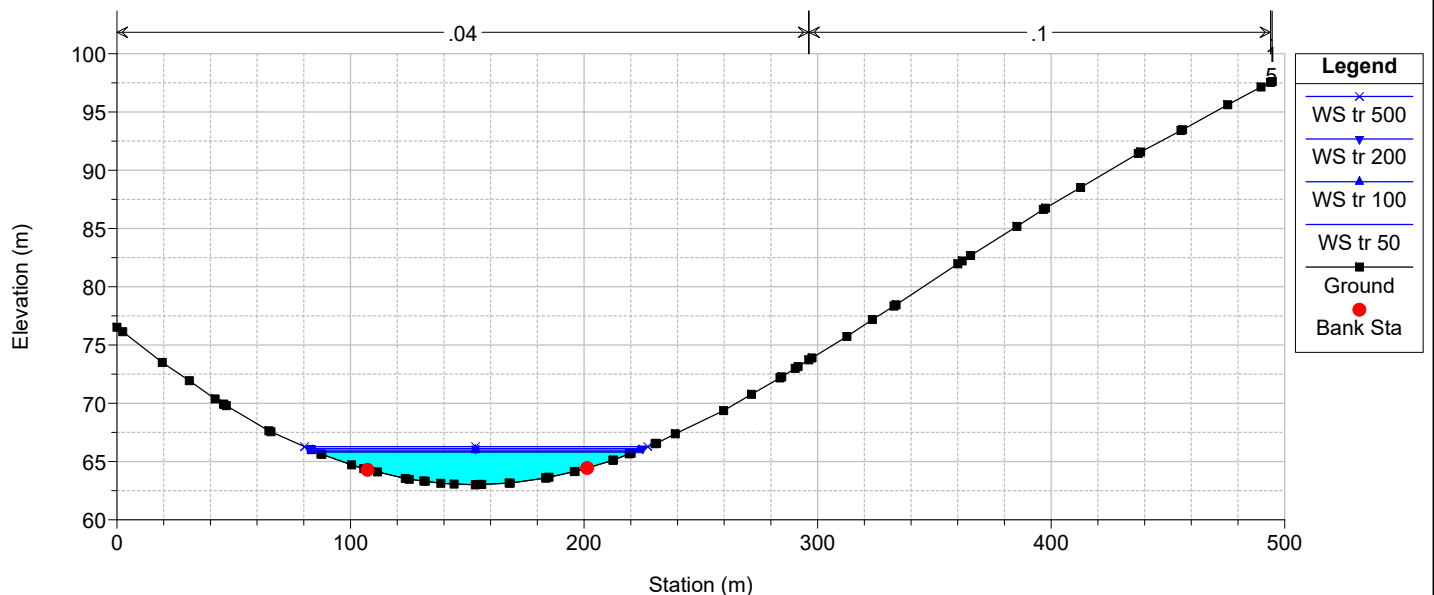
River = Fiume Santo Reach = Asta 2 RS = 12809.14 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

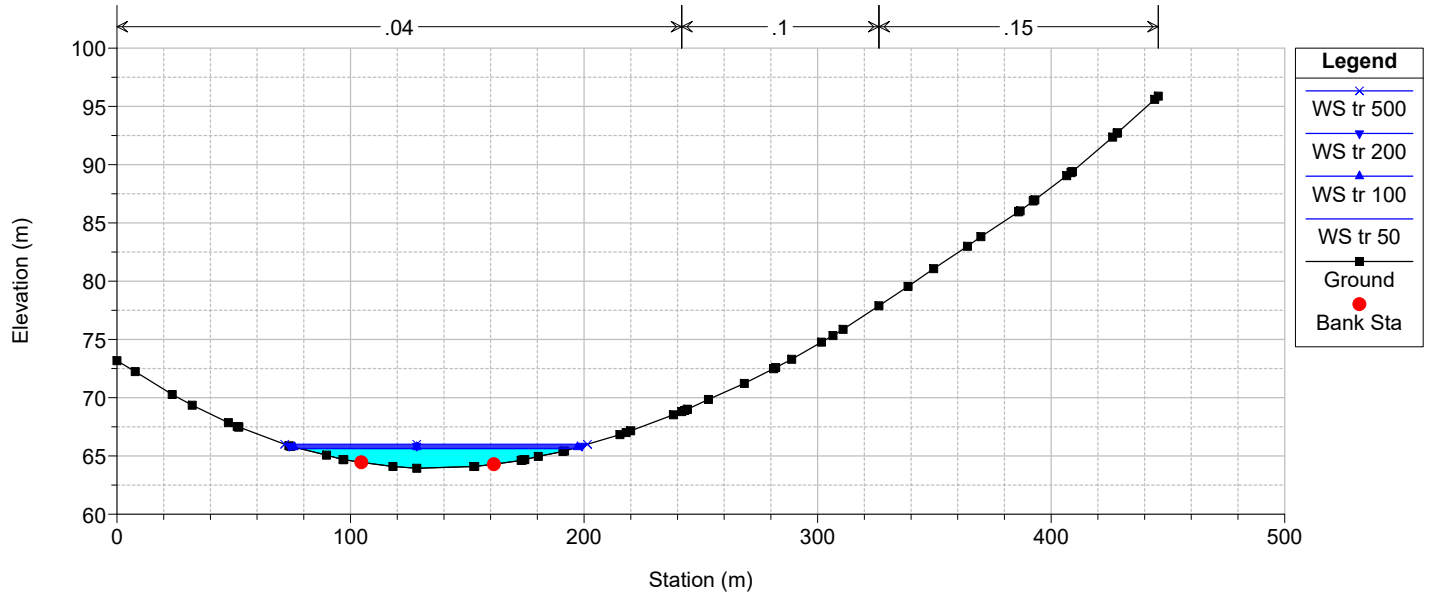
River = Fiume Santo Reach = Asta 2 RS = 12602.11 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

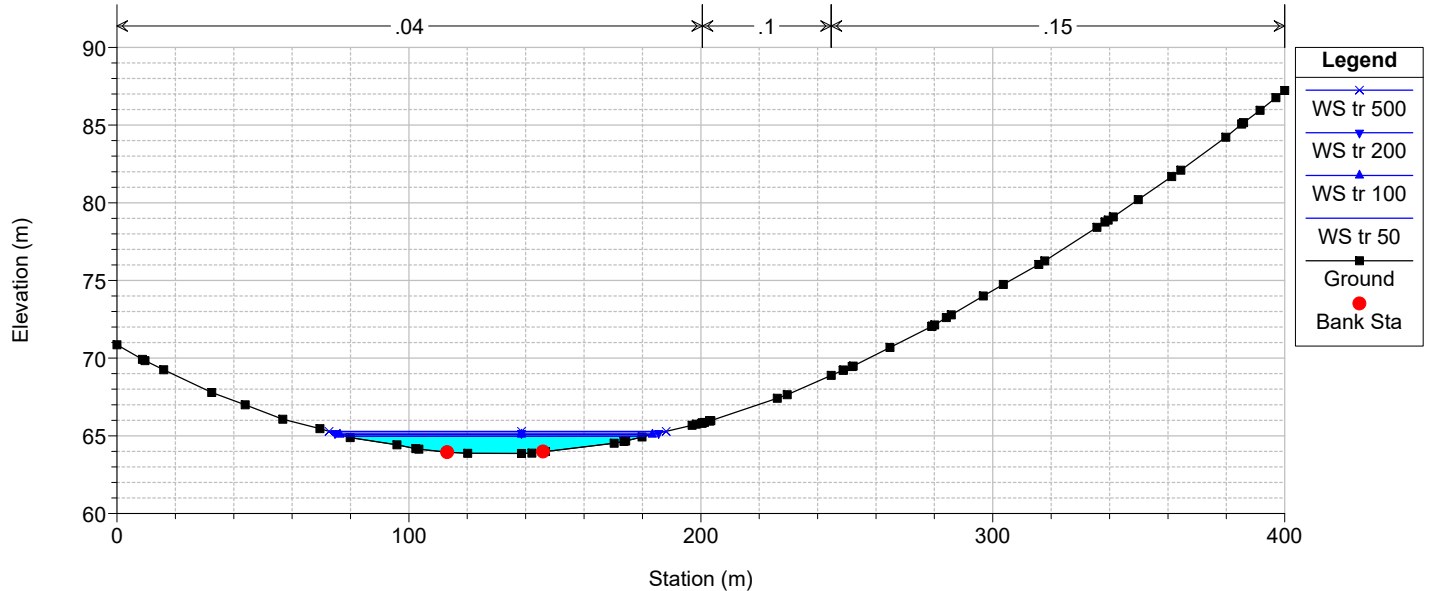
River = Fiume Santo Reach = Asta 2 RS = 12474.53 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

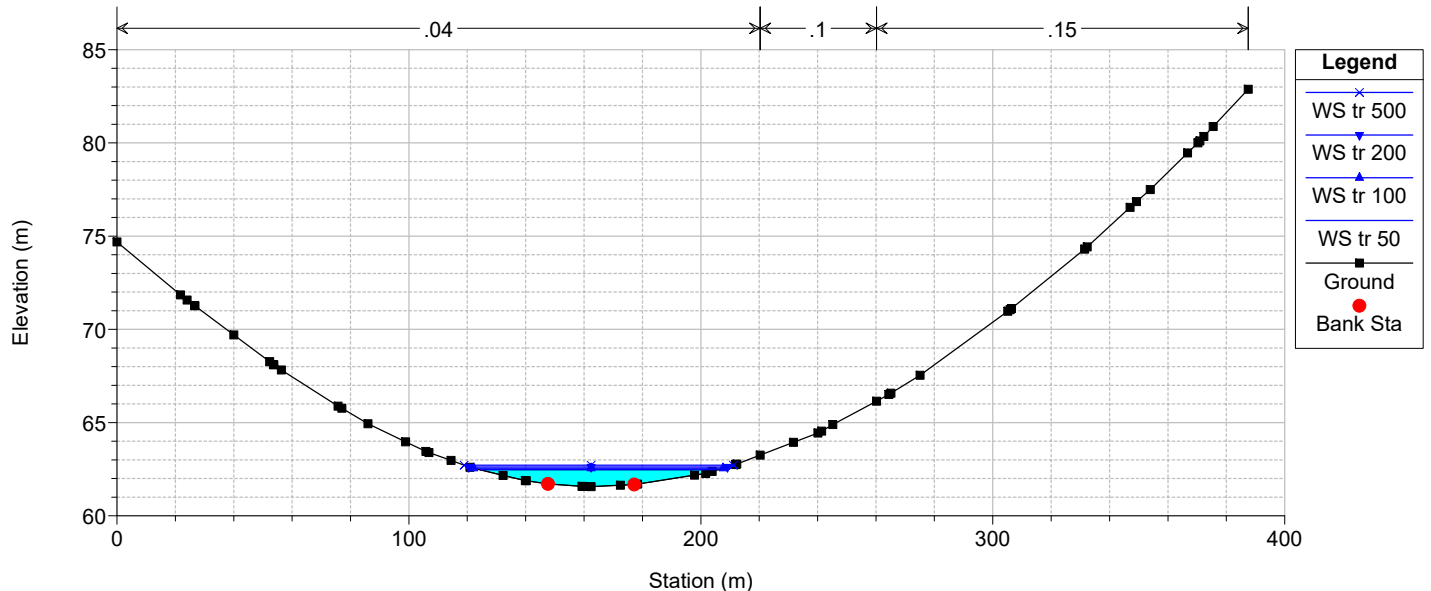
River = Fiume Santo Reach = Asta 2 RS = 12400 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

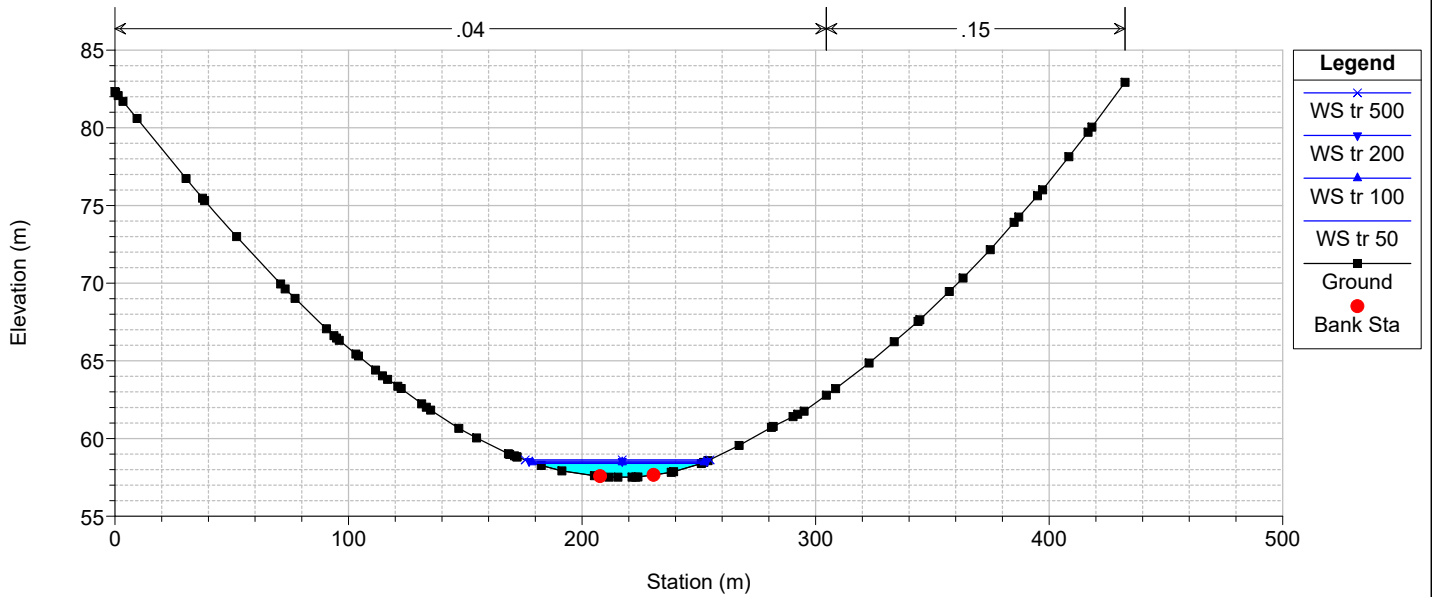
River = Fiume Santo Reach = Asta 2 RS = 12318.67 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

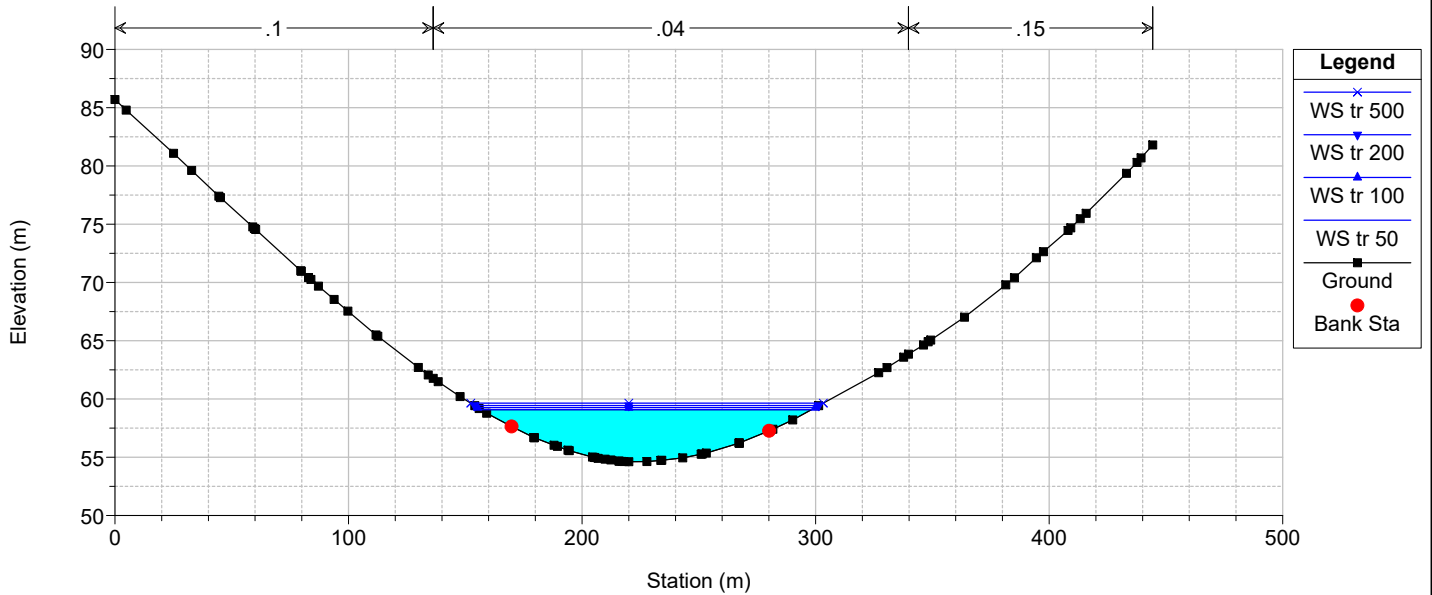
River = Fiume Santo Reach = Asta 2 RS = 12247.65 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

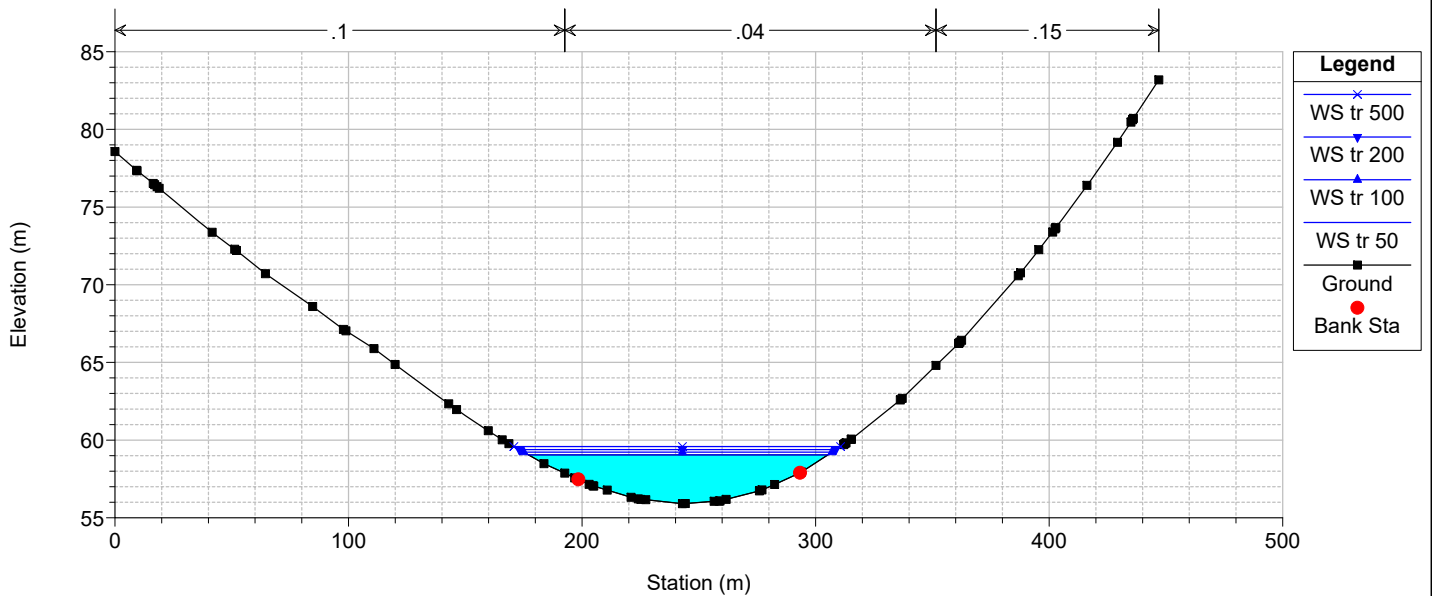
River = Fiume Santo Reach = Asta 2 RS = 12155.08 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

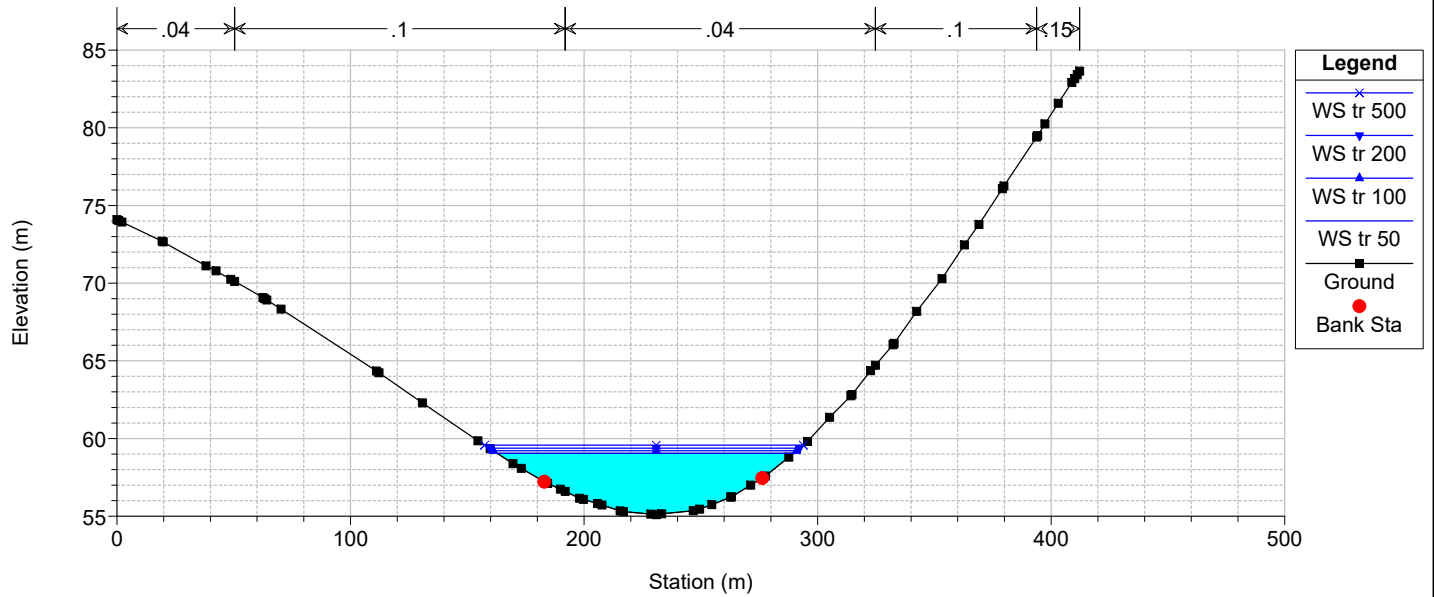
River = Fiume Santo Reach = Asta 2 RS = 12043.89 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

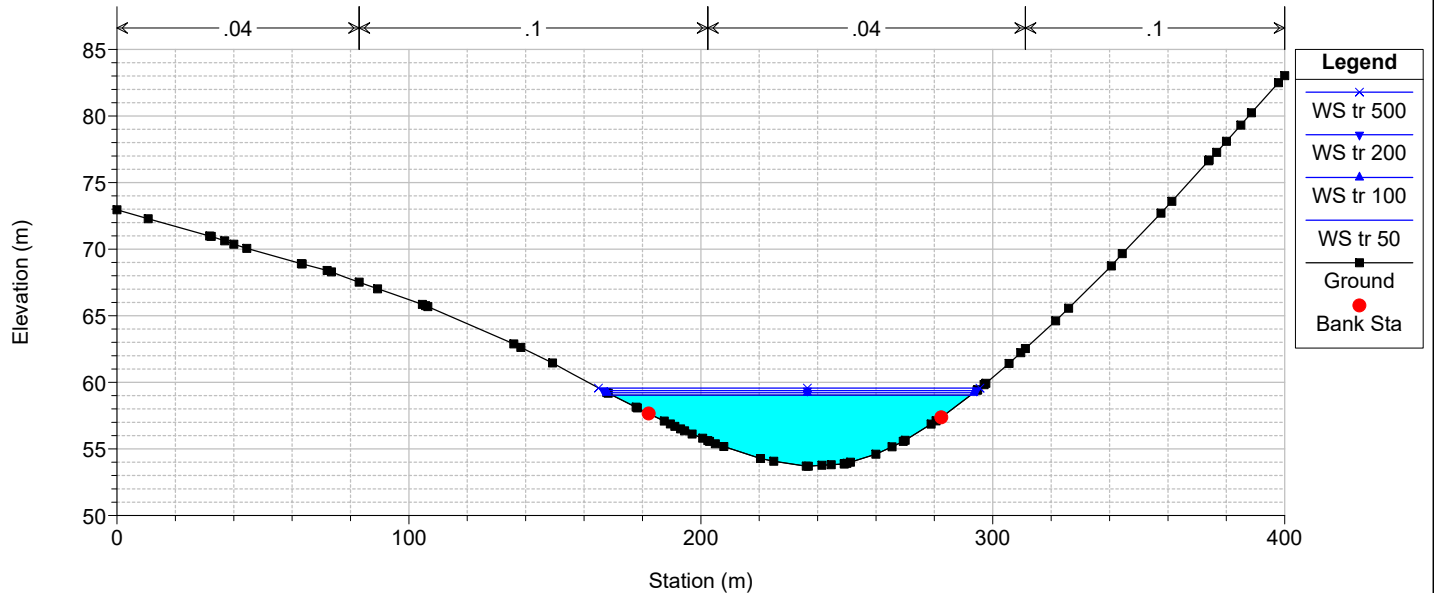
River = Fiume Santo Reach = Asta 2 RS = 11966.74 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

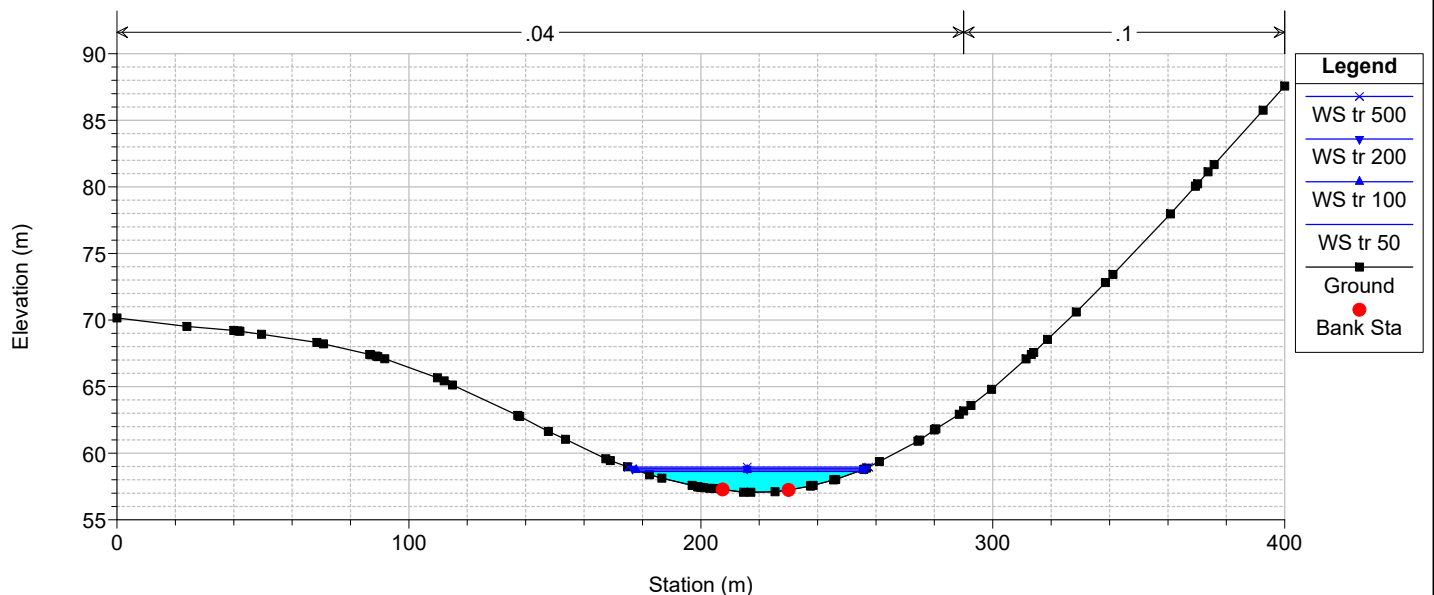
River = Fiume Santo Reach = Asta 2 RS = 11900 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

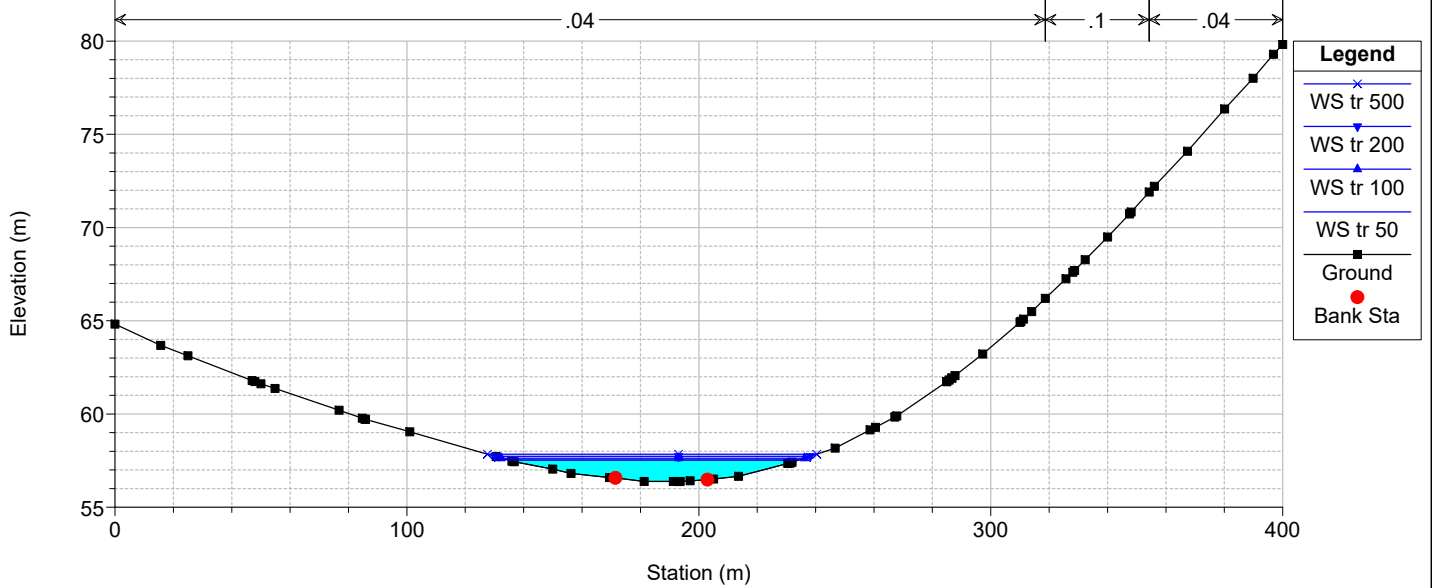
River = Fiume Santo Reach = Asta 2 RS = 11800 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

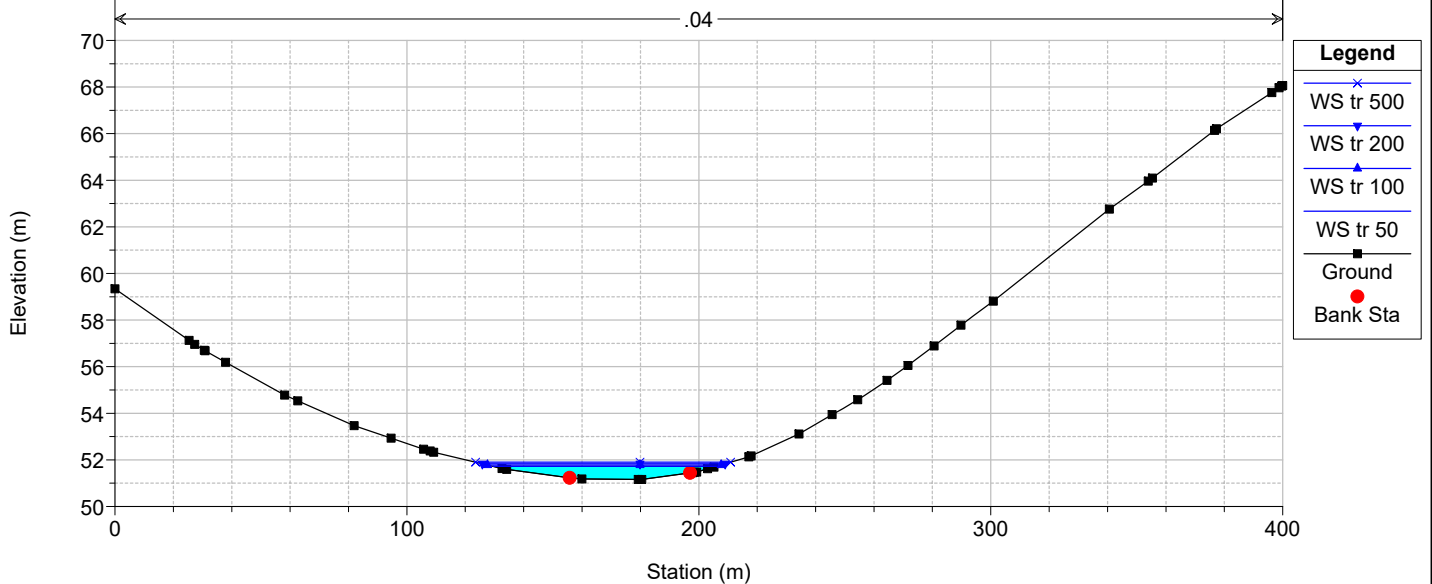
River = Fiume Santo Reach = Asta 2 RS = 11700 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

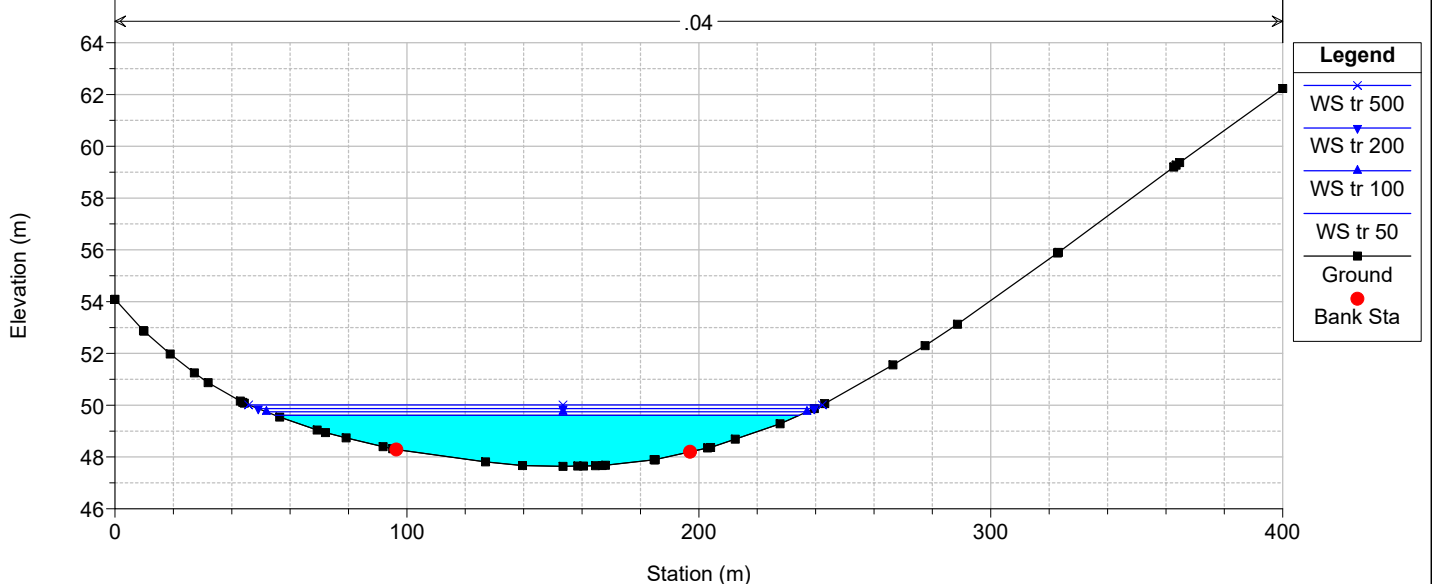
River = Fiume Santo Reach = Asta 2 RS = 11600 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

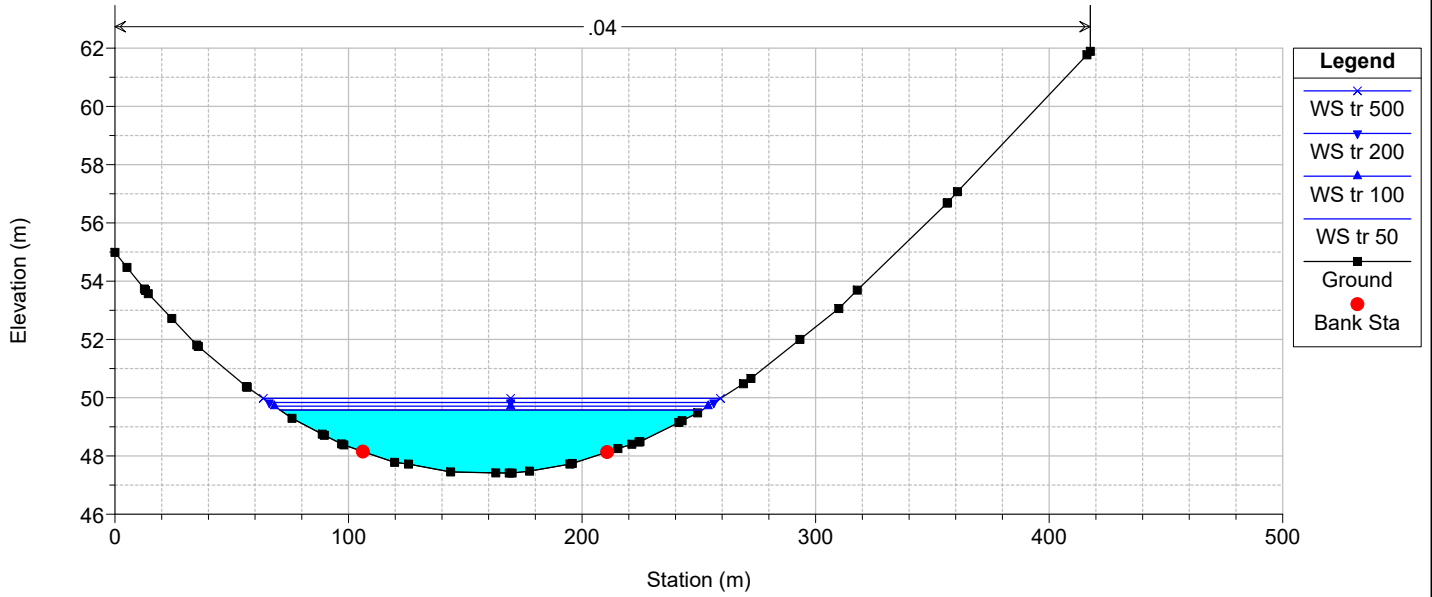
River = Fiume Santo Reach = Asta 2 RS = 11500 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

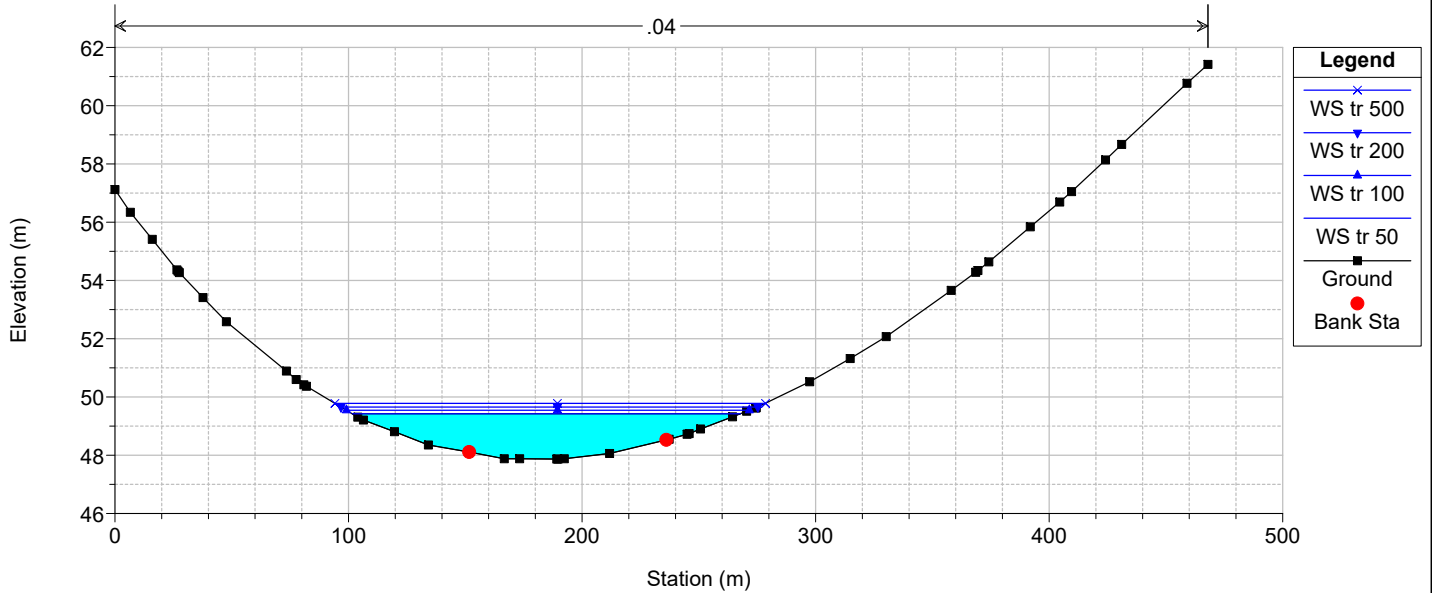
River = Fiume Santo Reach = Asta 2 RS = 11431.99 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

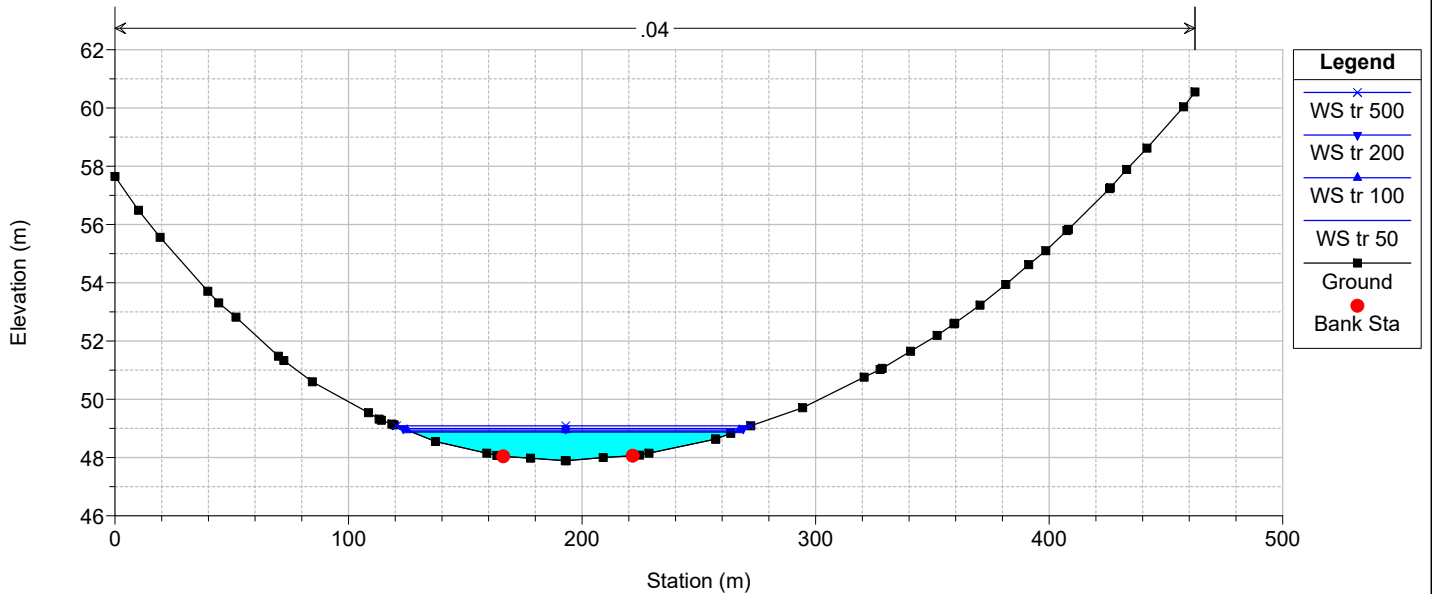
River = Fiume Santo Reach = Asta 2 RS = 11289.16 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

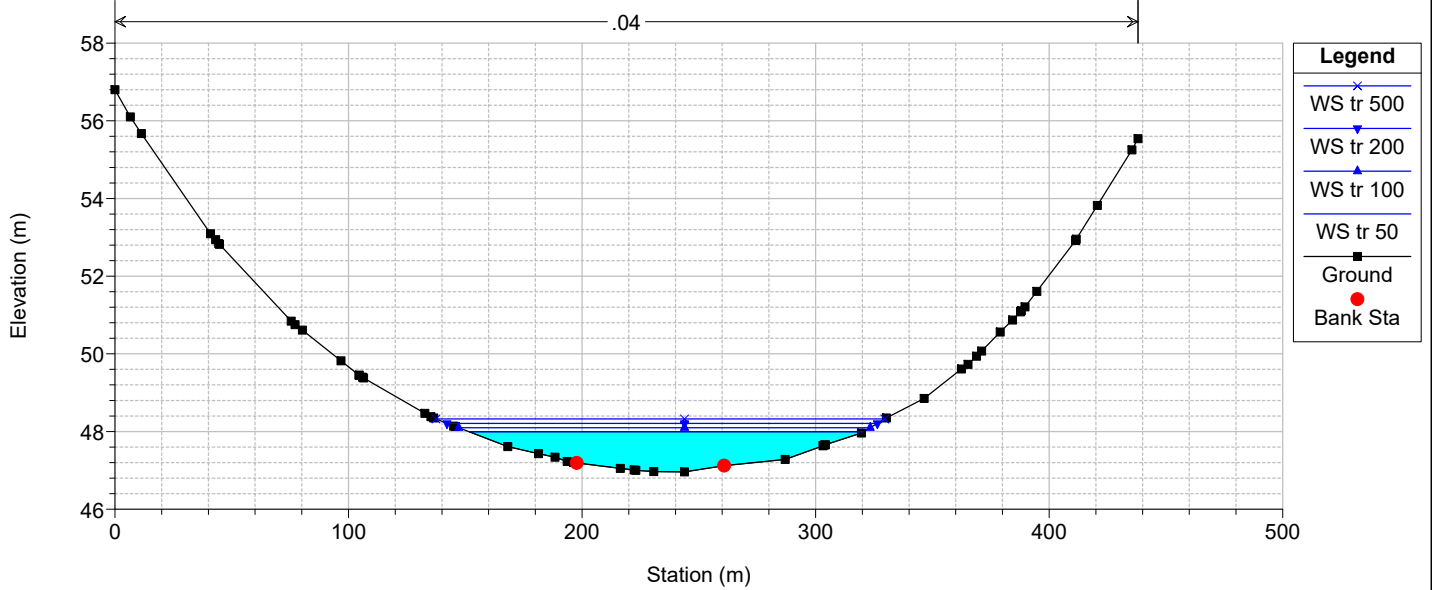
River = Fiume Santo Reach = Asta 2 RS = 11193.1 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

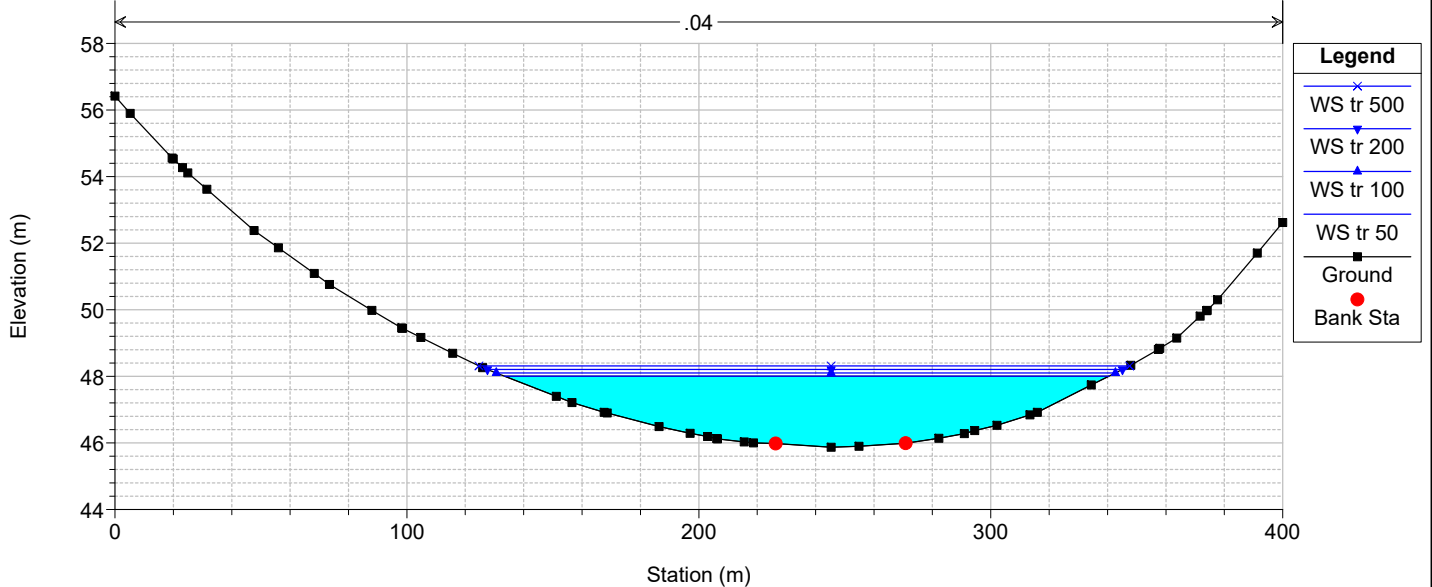
River = Fiume Santo Reach = Asta 2 RS = 11085.46 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

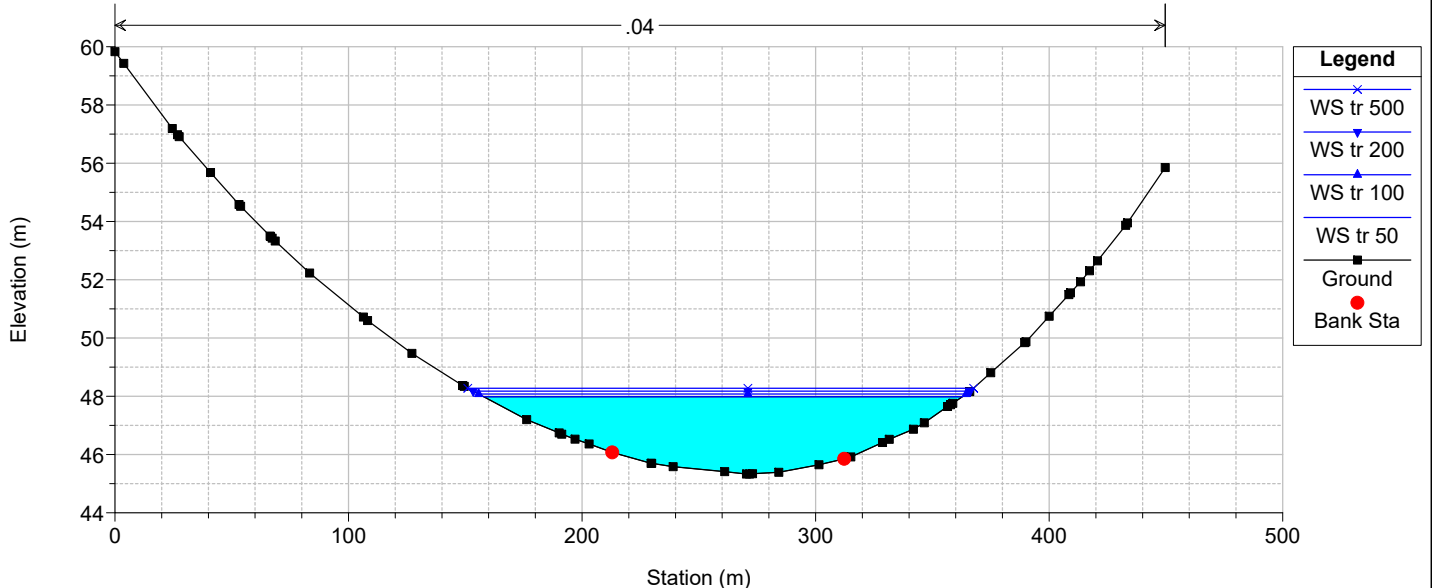
River = Fiume Santo Reach = Asta 2 RS = 11000 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

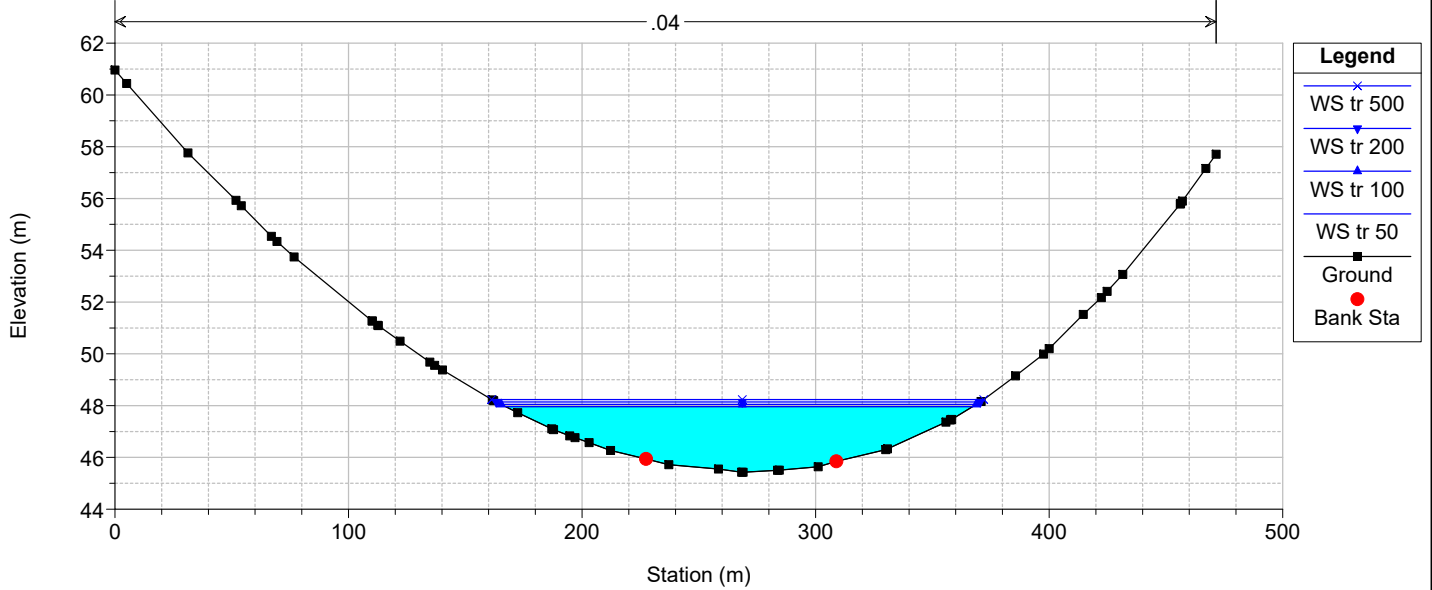
River = Fiume Santo Reach = Asta 2 RS = 10900 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

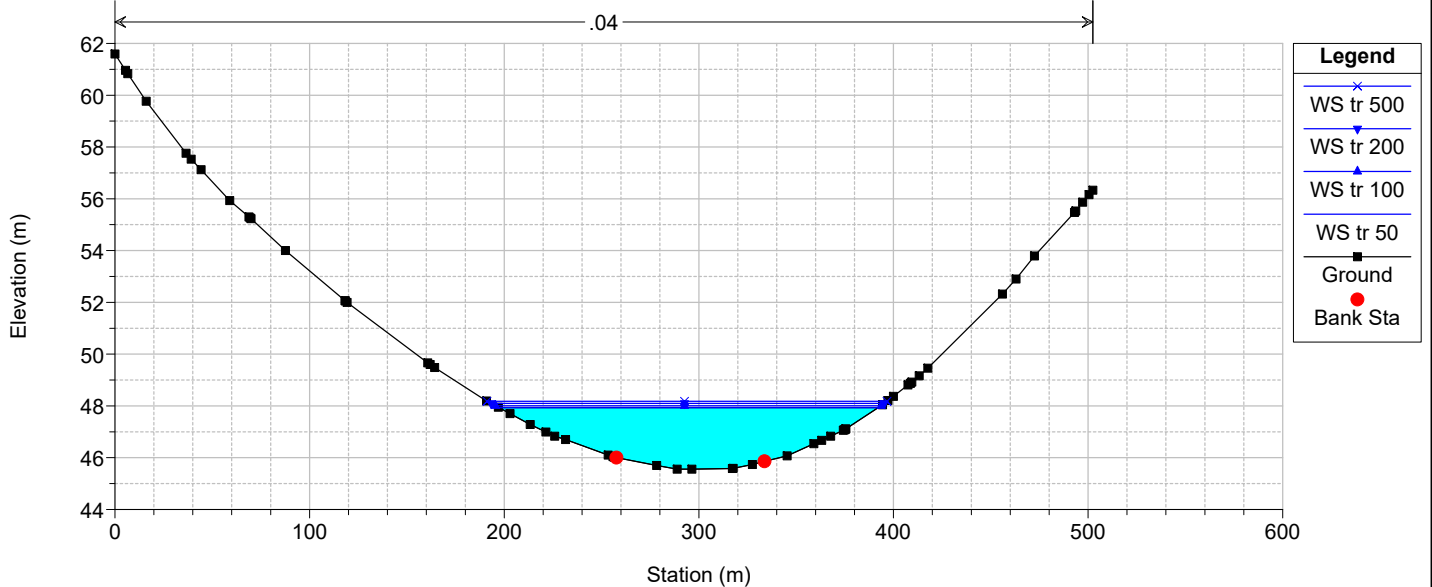
River = Fiume Santo Reach = Asta 2 RS = 10800 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

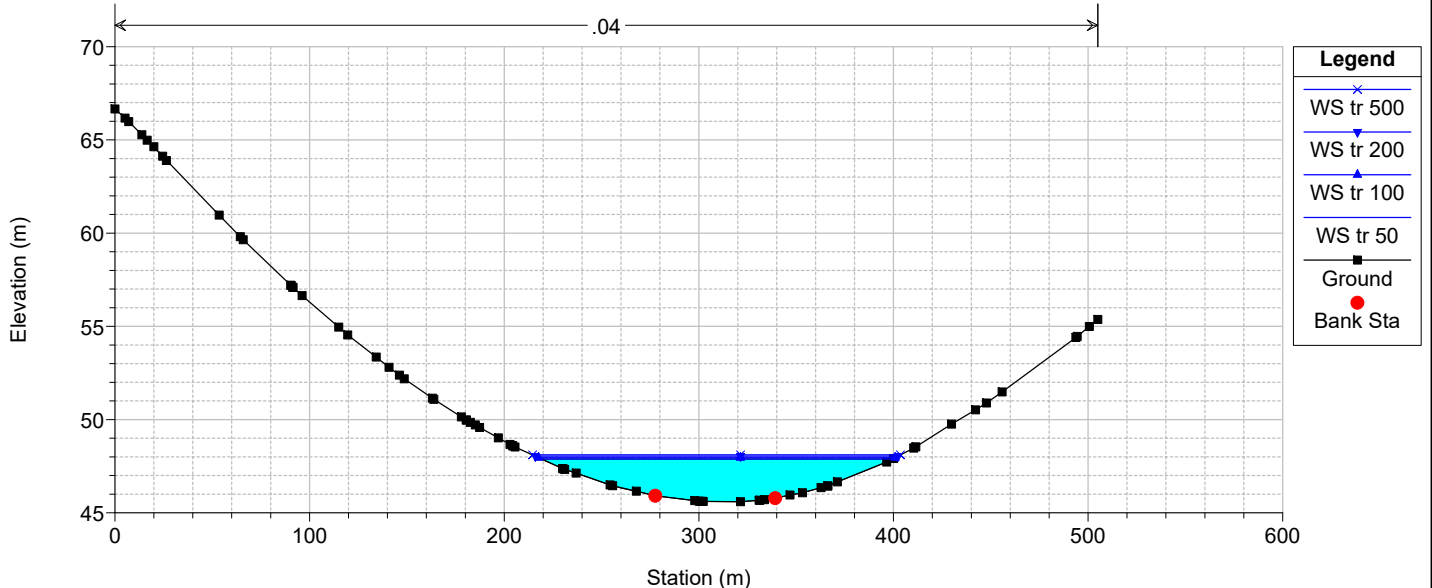
River = Fiume Santo Reach = Asta 2 RS = 10700 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

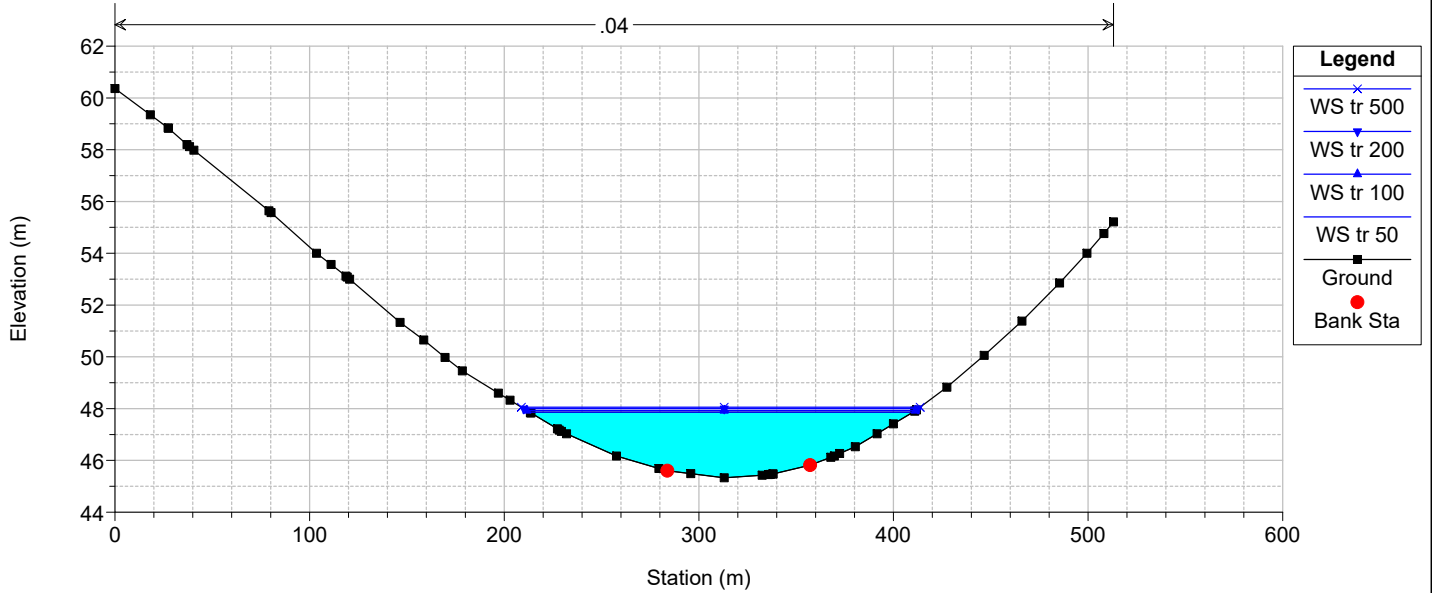
River = Fiume Santo Reach = Asta 2 RS = 10600 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

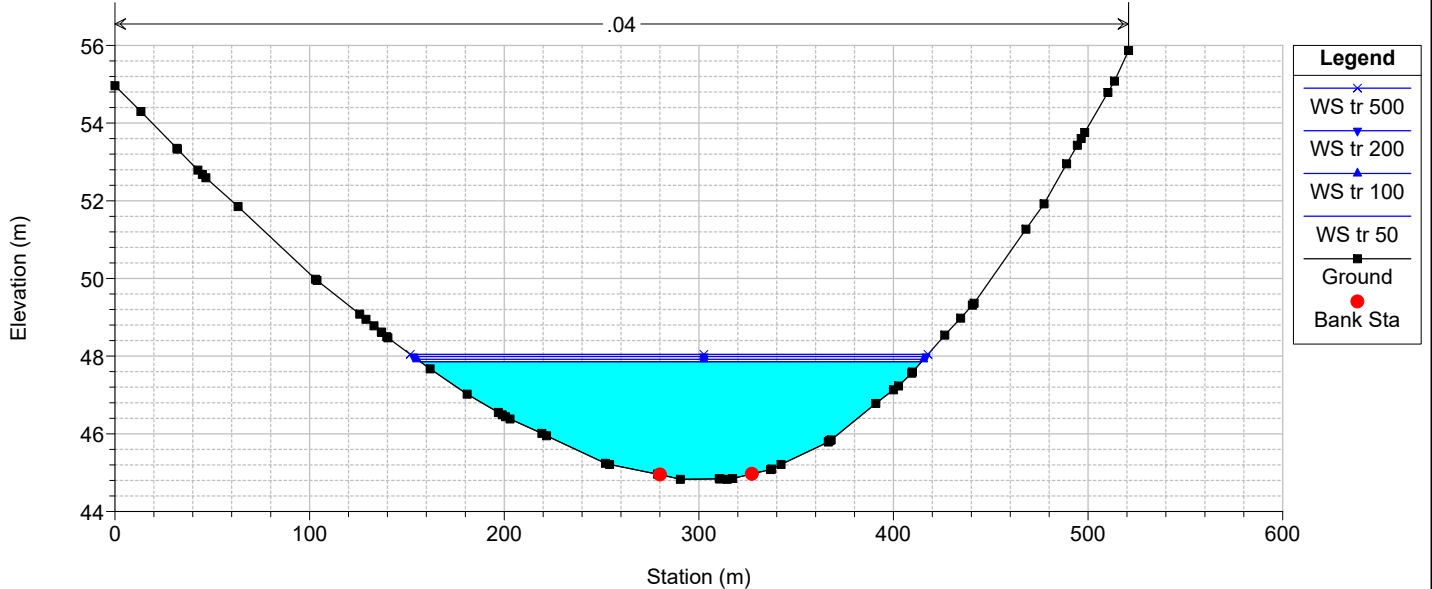
River = Fiume Santo Reach = Asta 2 RS = 10500 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

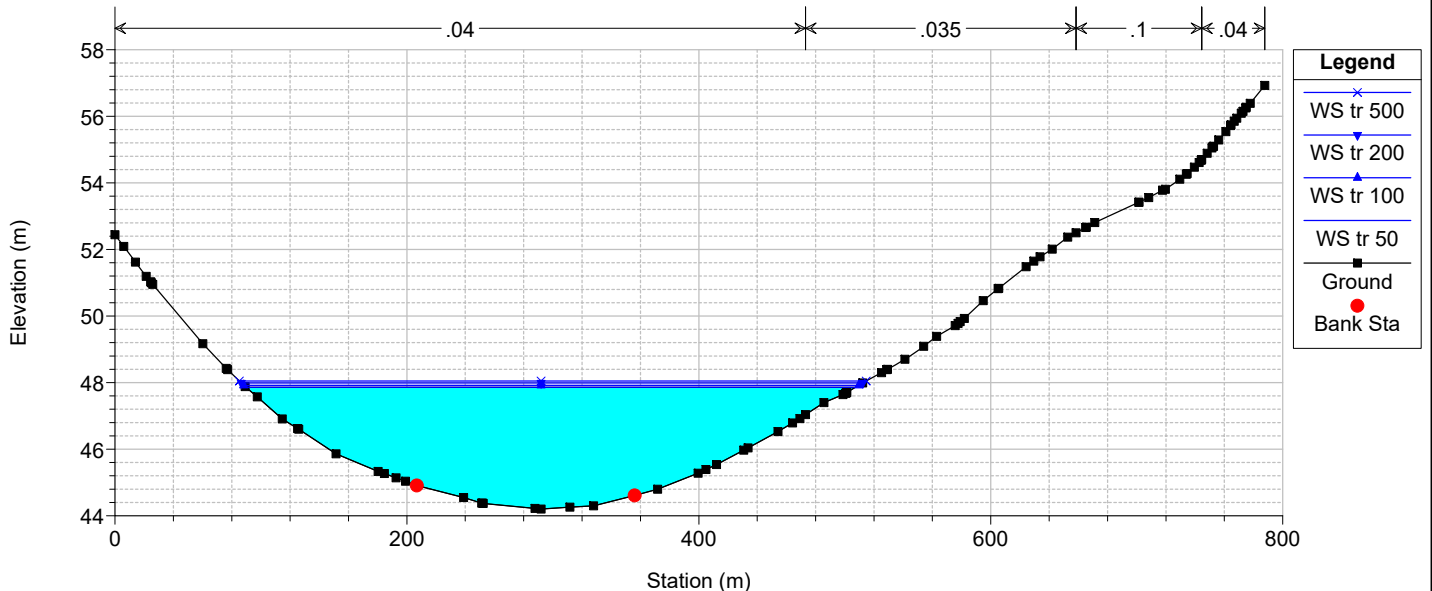
River = Fiume Santo Reach = Asta 2 RS = 10400 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

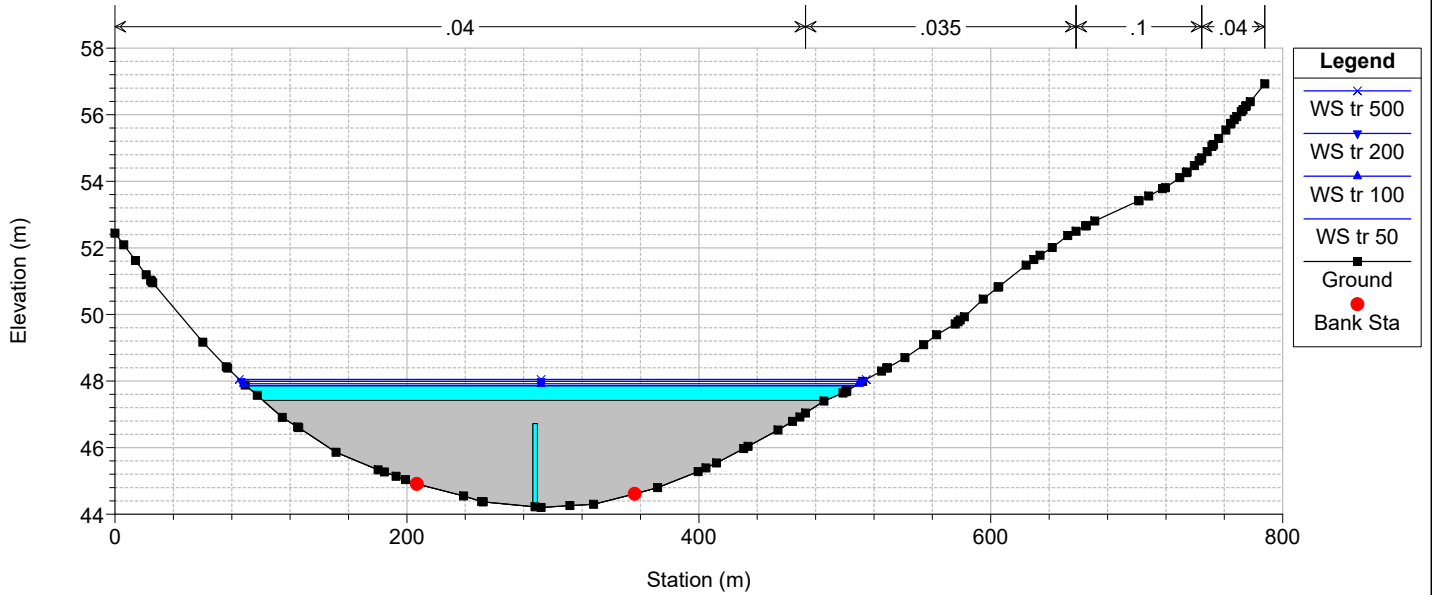
River = Fiume Santo Reach = Asta 2 RS = 10303.44 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

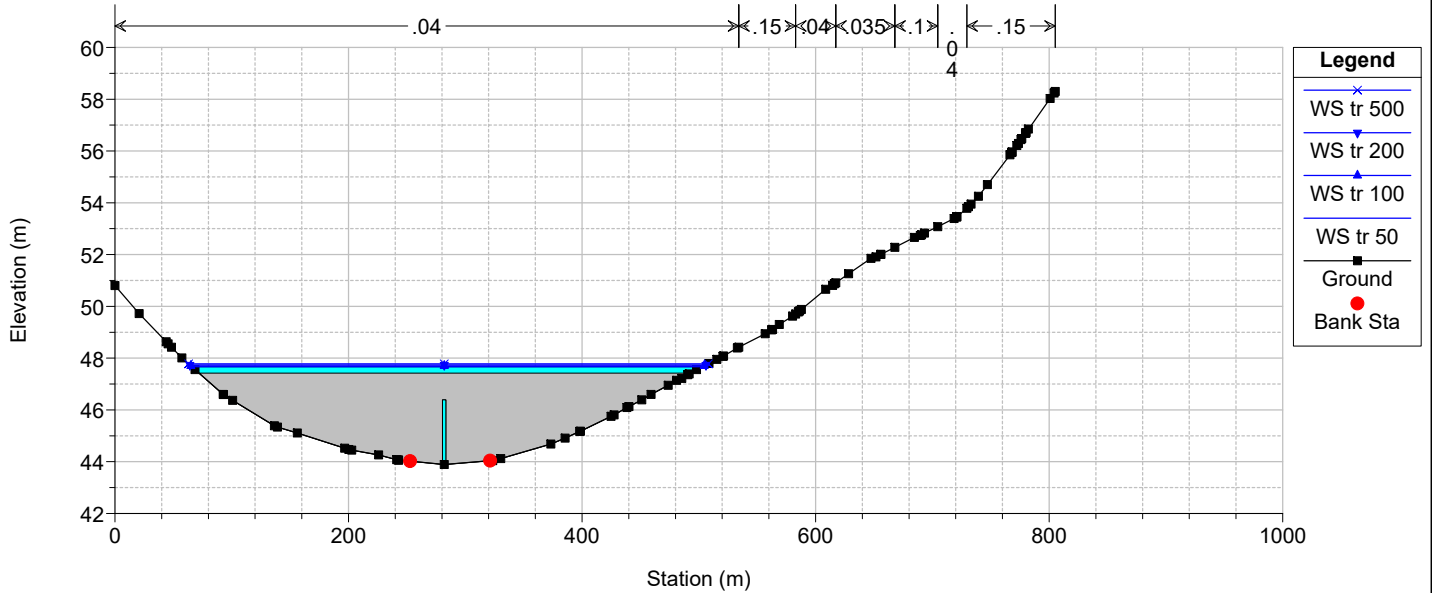
River = Fiume Santo Reach = Asta 2 RS = 10276.45 Culv B13 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

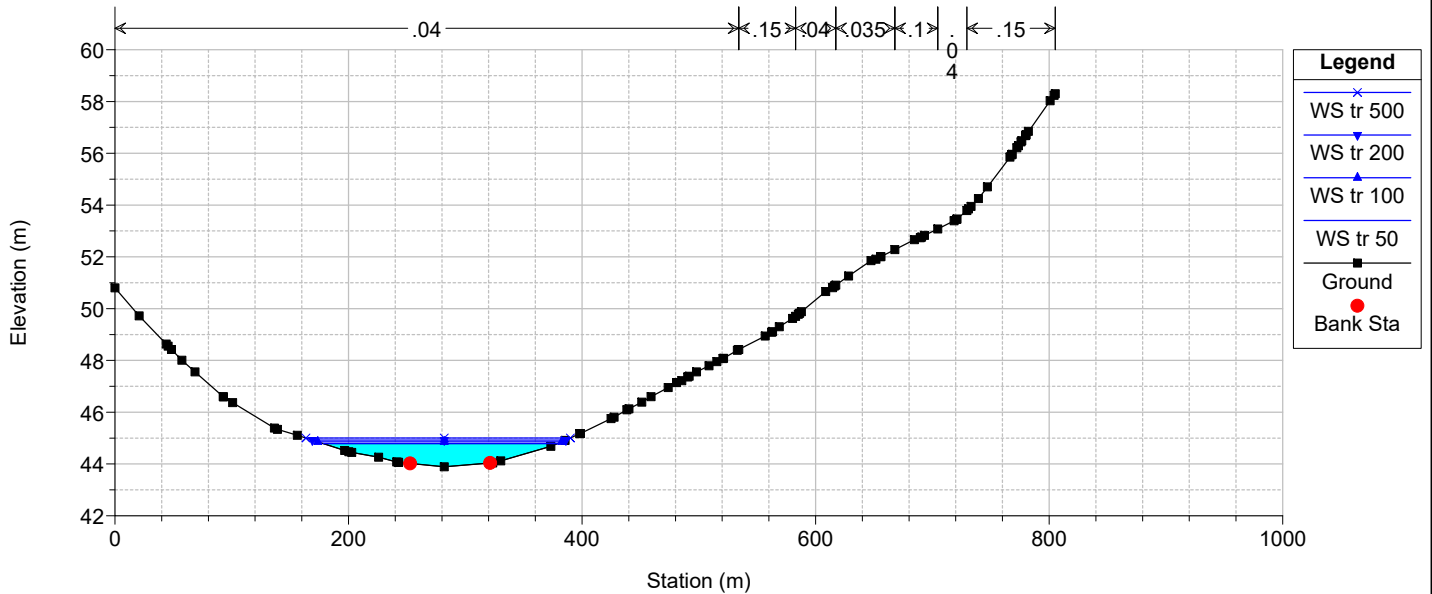
River = Fiume Santo Reach = Asta 2 RS = 10276.45 Culv B13 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

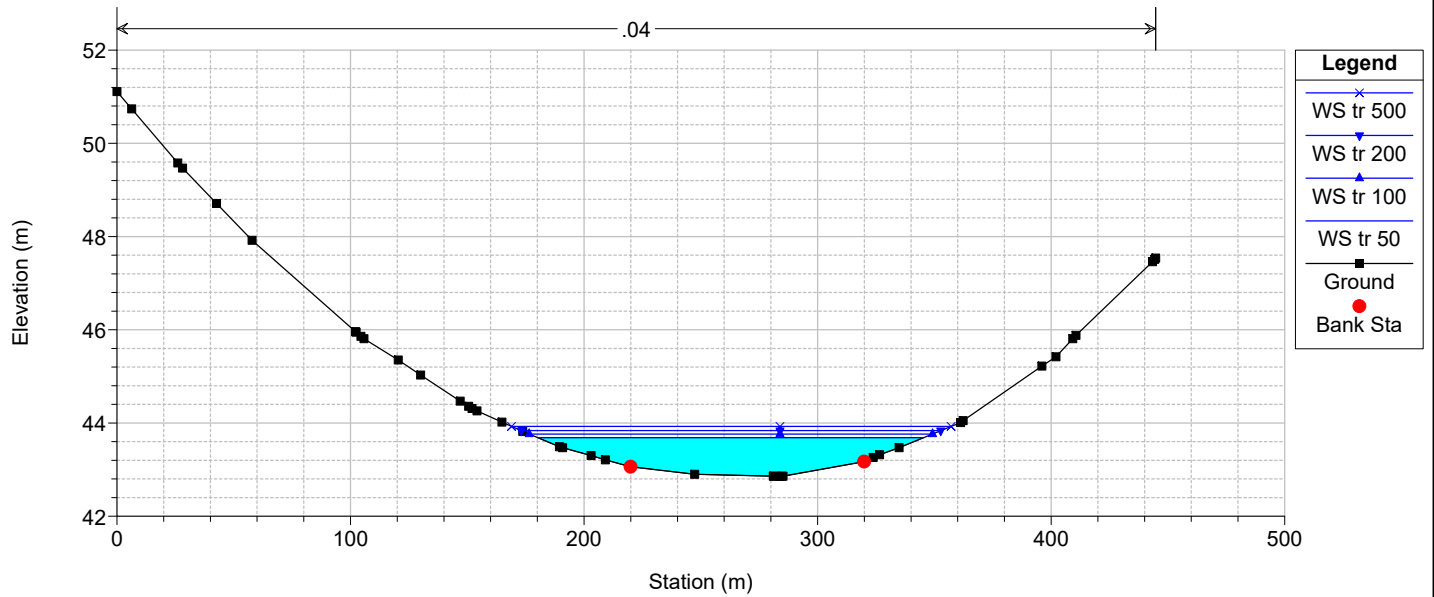
River = Fiume Santo Reach = Asta 2 RS = 10261.48 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

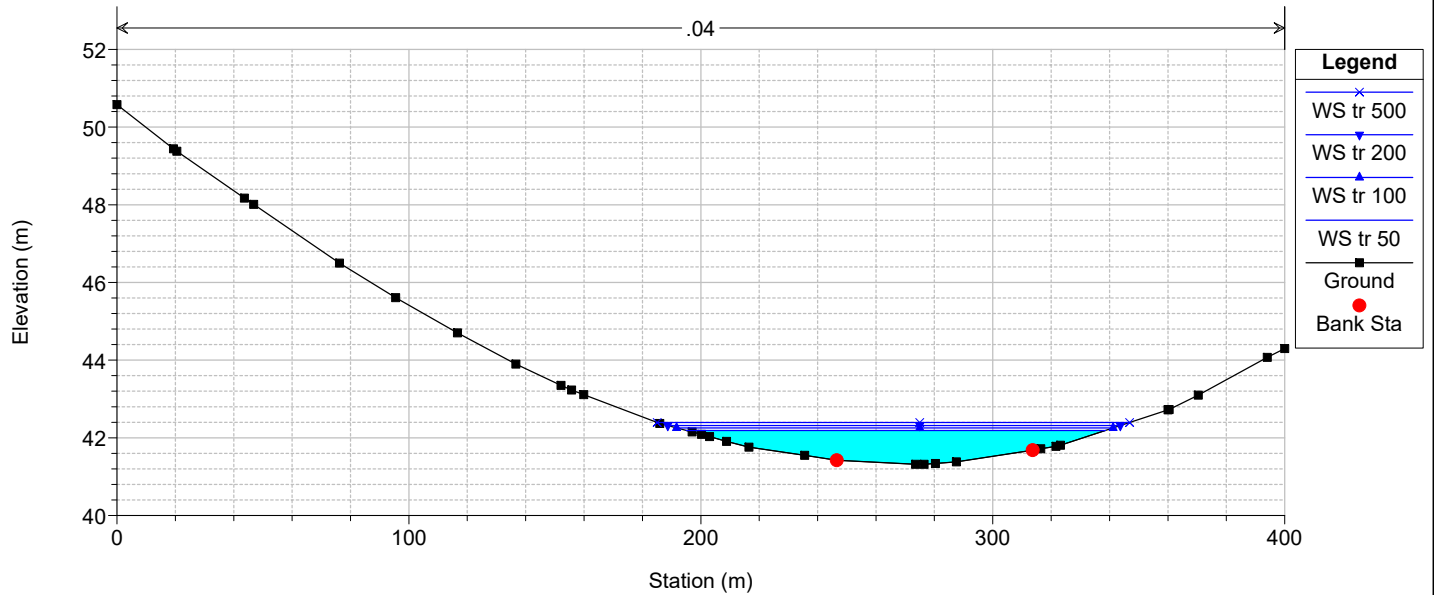
River = Fiume Santo Reach = Asta 2 RS = 10178.65 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

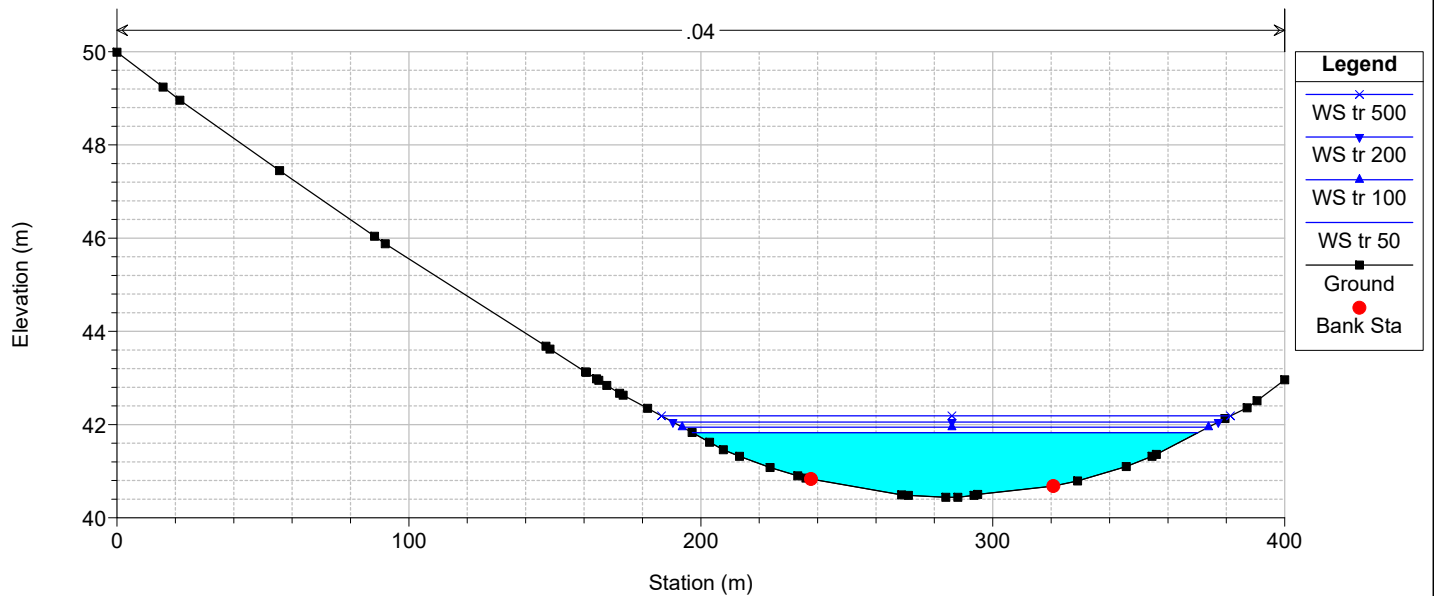
River = Fiume Santo Reach = Asta 2 RS = 10100 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

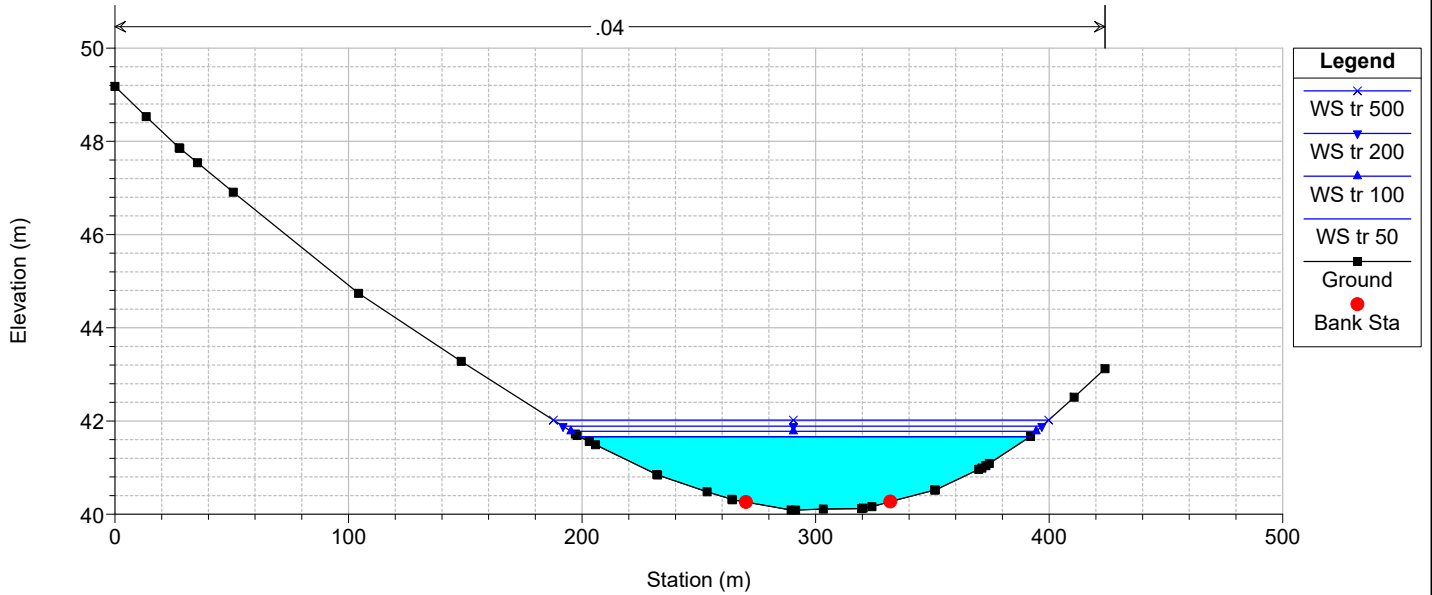
River = Fiume Santo Reach = Asta 2 RS = 10000 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

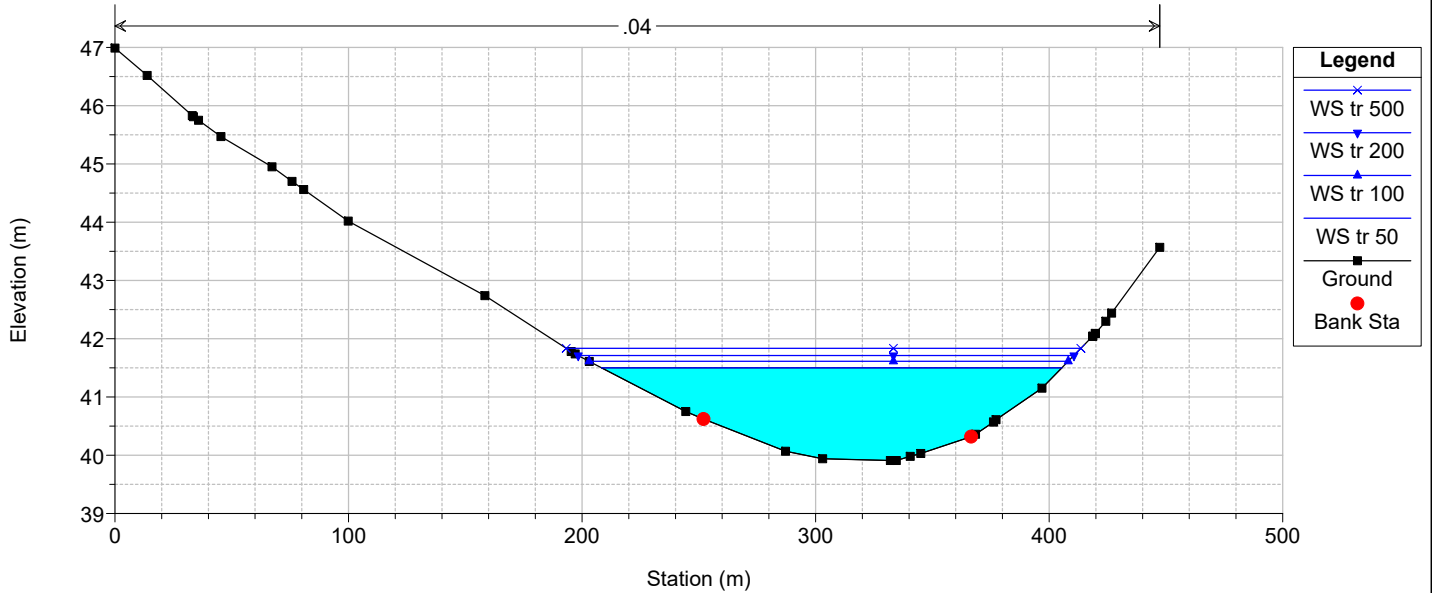
River = Fiume Santo Reach = Asta 2 RS = 9906.039 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

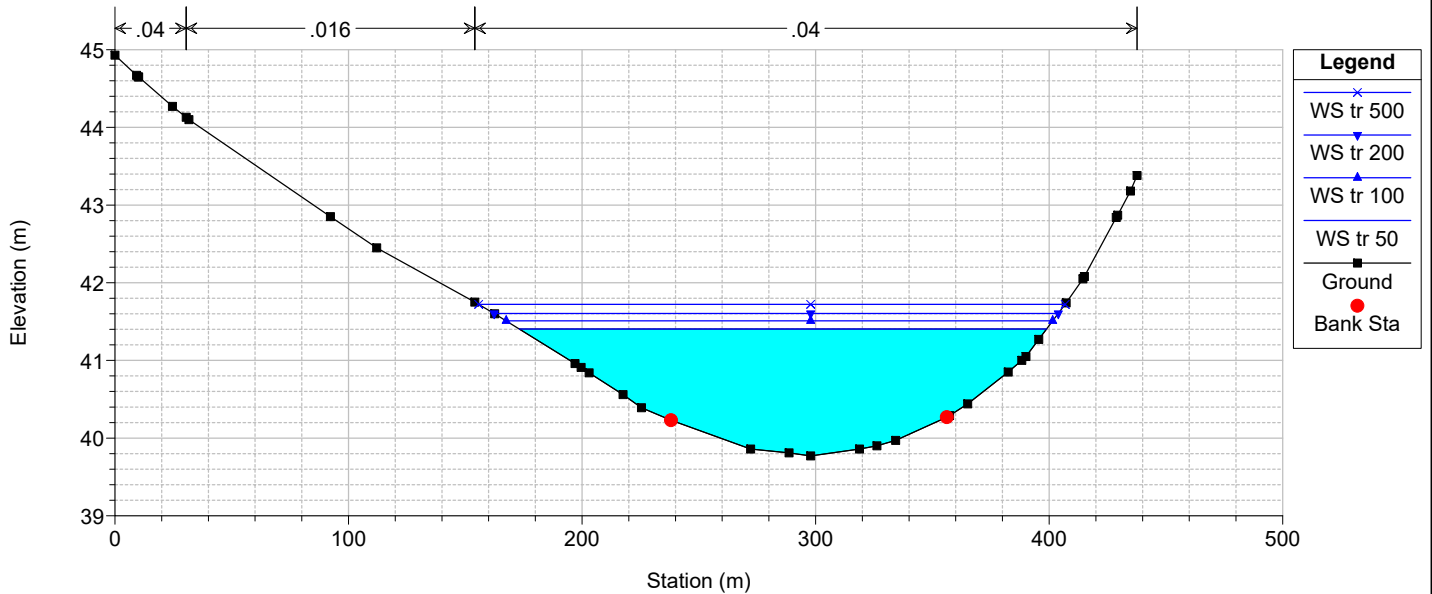
River = Fiume Santo Reach = Asta 2 RS = 9794.673 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

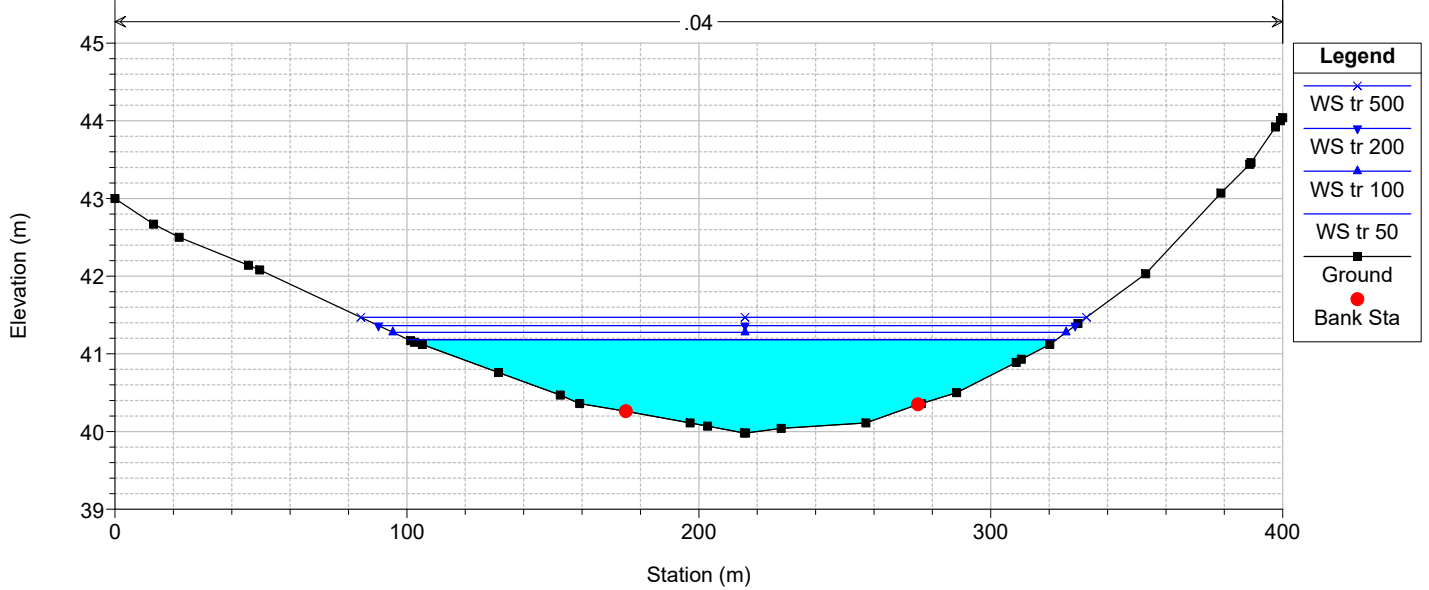
River = Fiume Santo Reach = Asta 2 RS = 9701.429 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

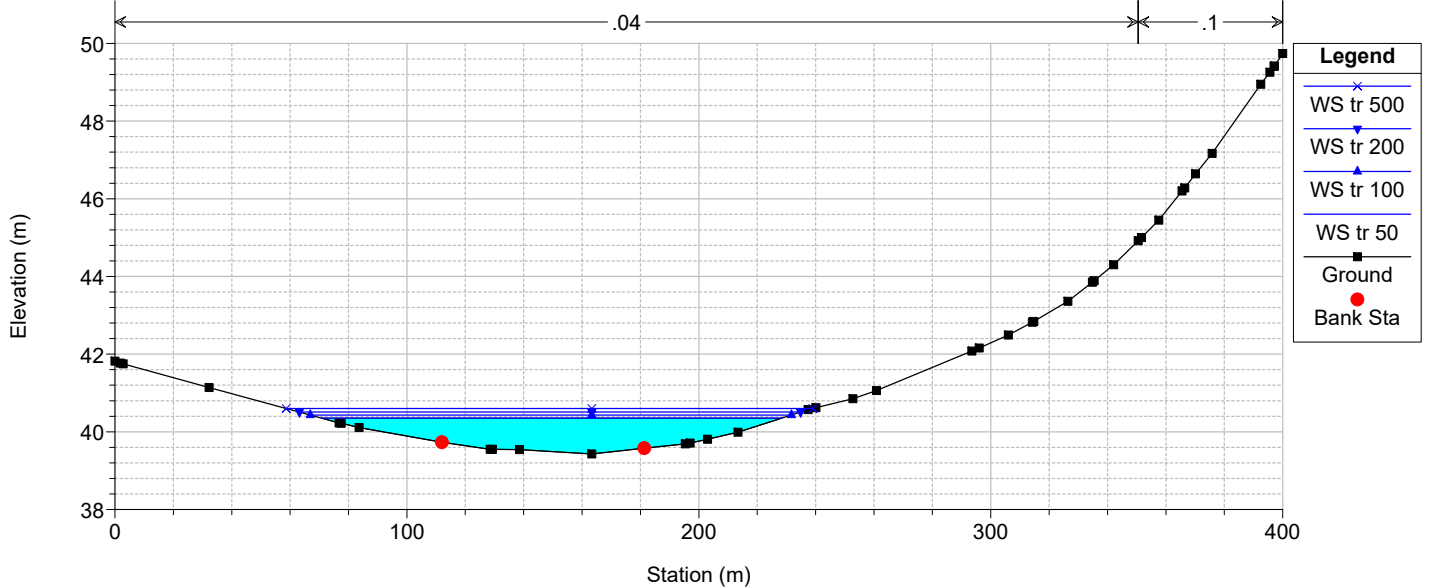
River = Fiume Santo Reach = Asta 2 RS = 9600 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

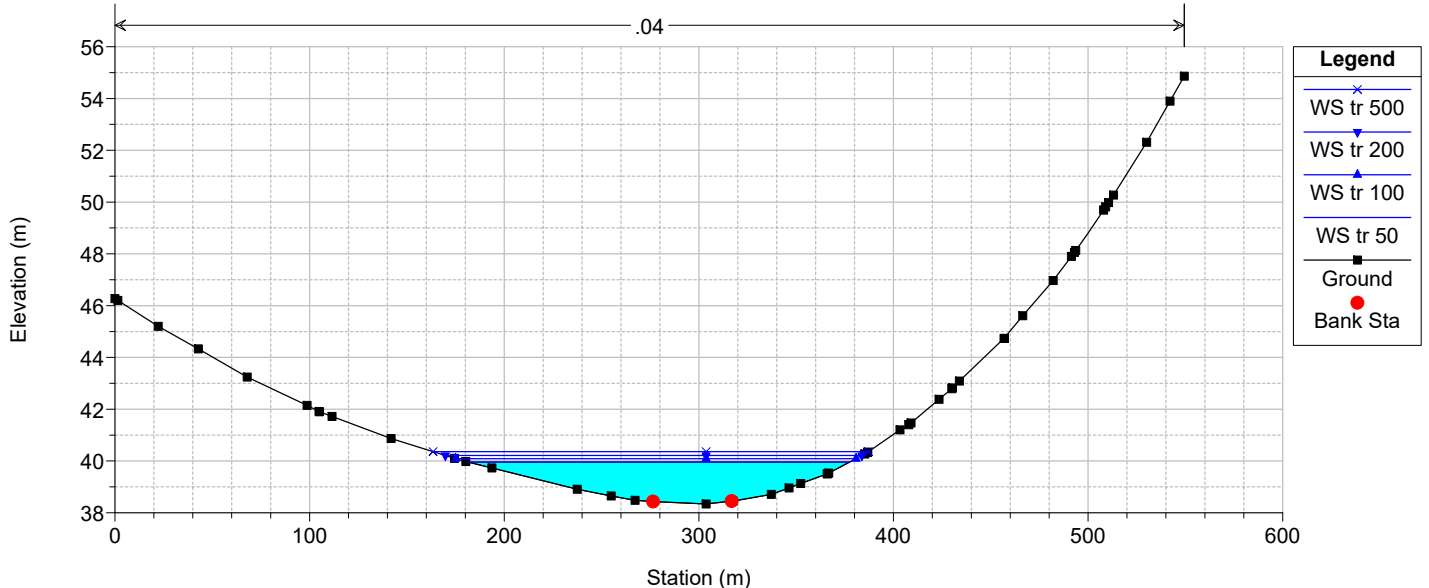
River = Fiume Santo Reach = Asta 2 RS = 9500 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

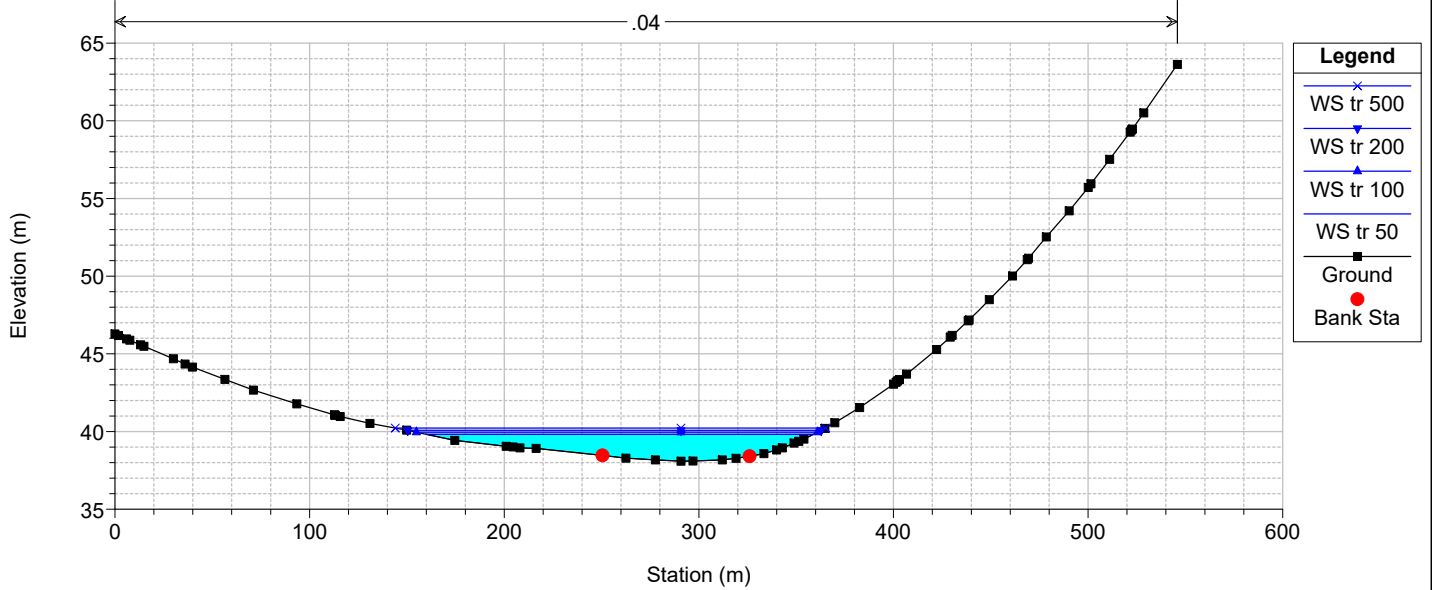
River = Fiume Santo Reach = Asta 2 RS = 9404.936 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

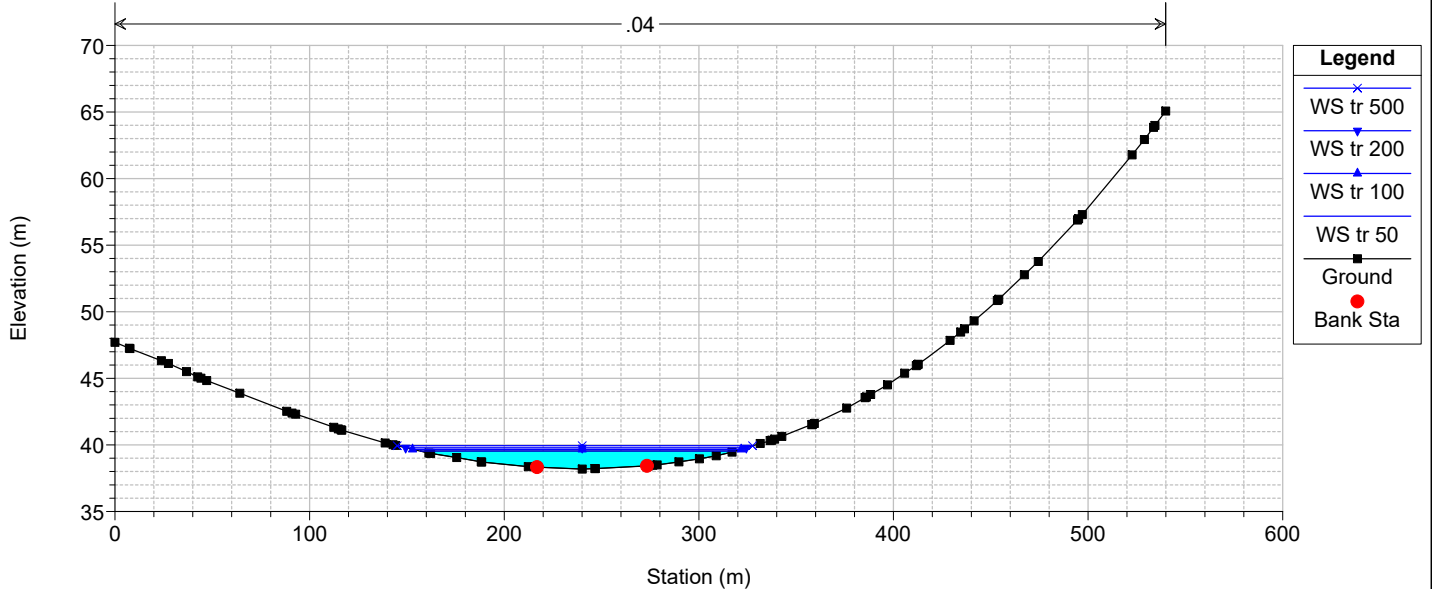
River = Fiume Santo Reach = Asta 2 RS = 9300.894 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

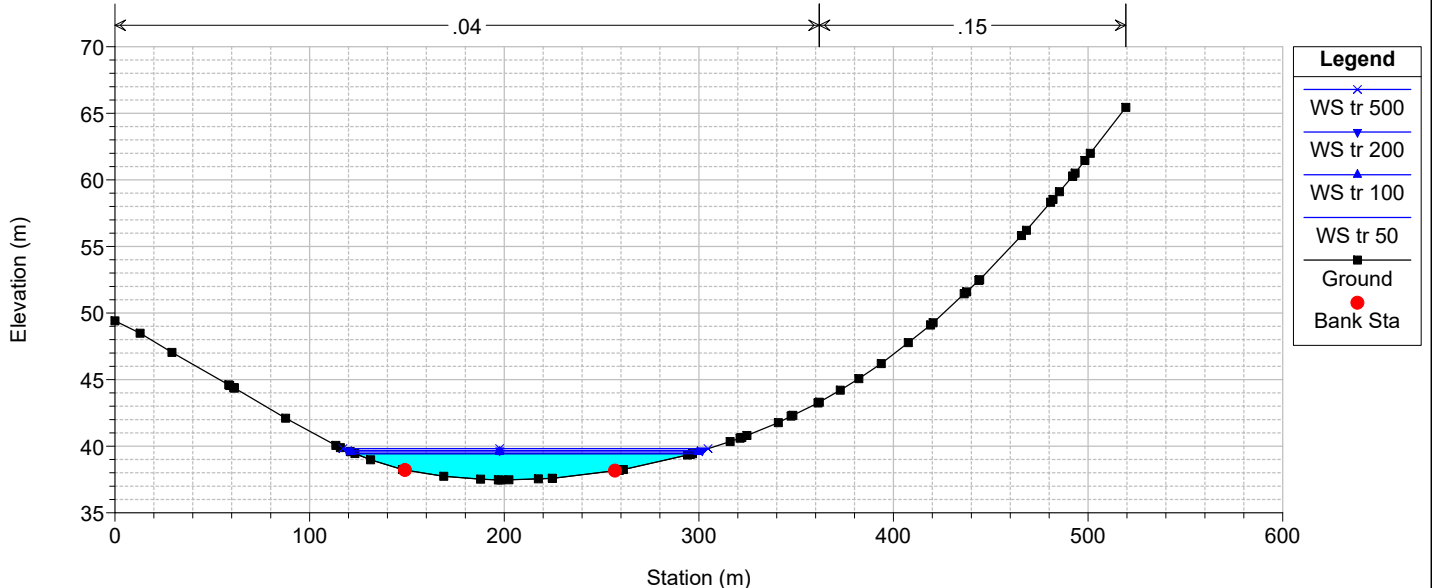
River = Fiume Santo Reach = Asta 2 RS = 9190.55 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

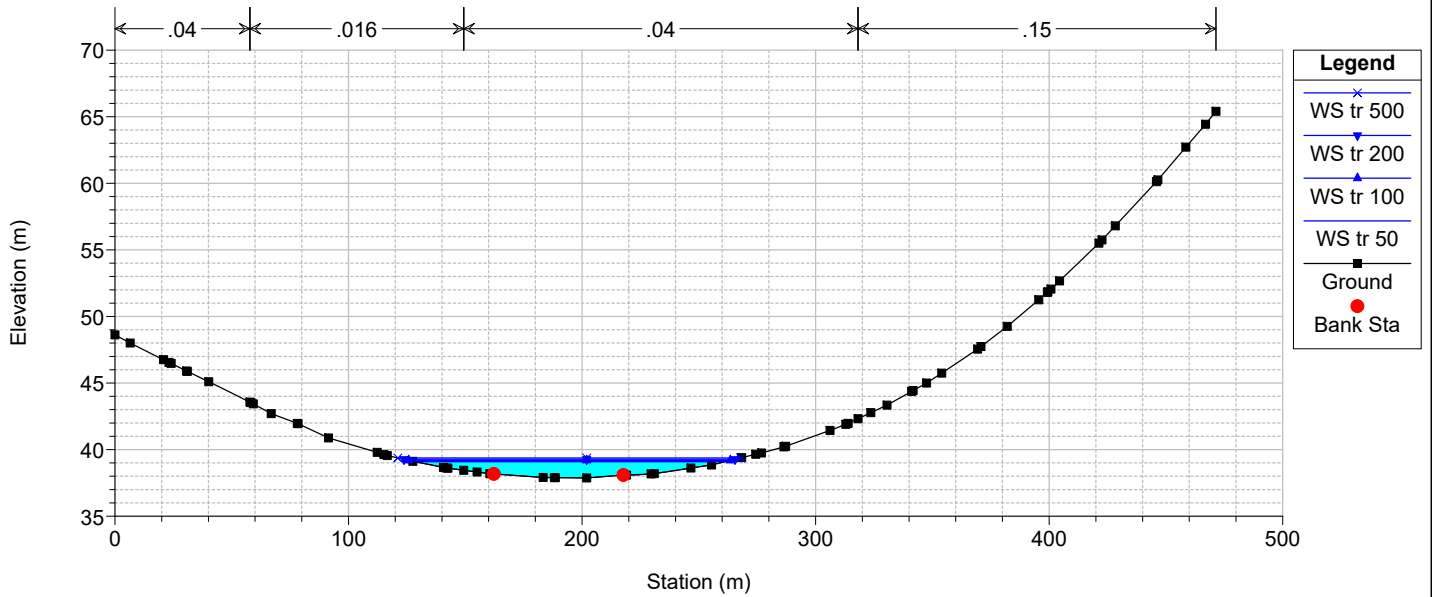
River = Fiume Santo Reach = Asta 2 RS = 9088.166 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

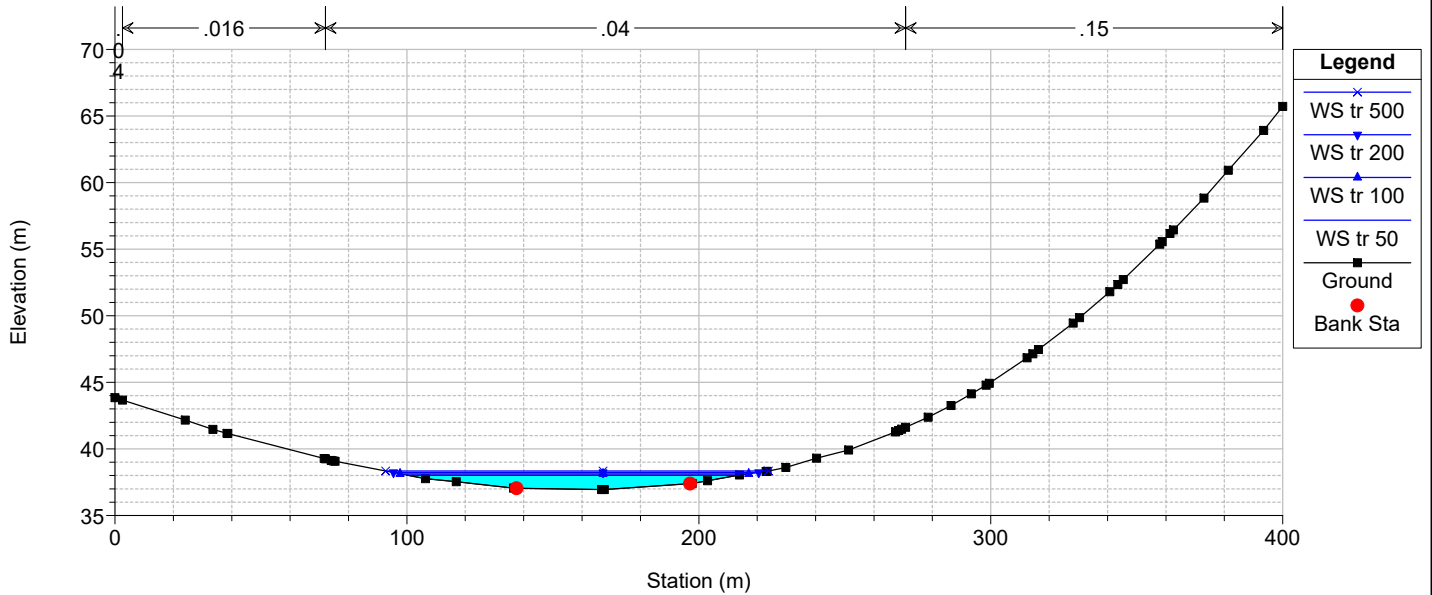
River = Fiume Santo Reach = Asta 2 RS = 8996.421 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

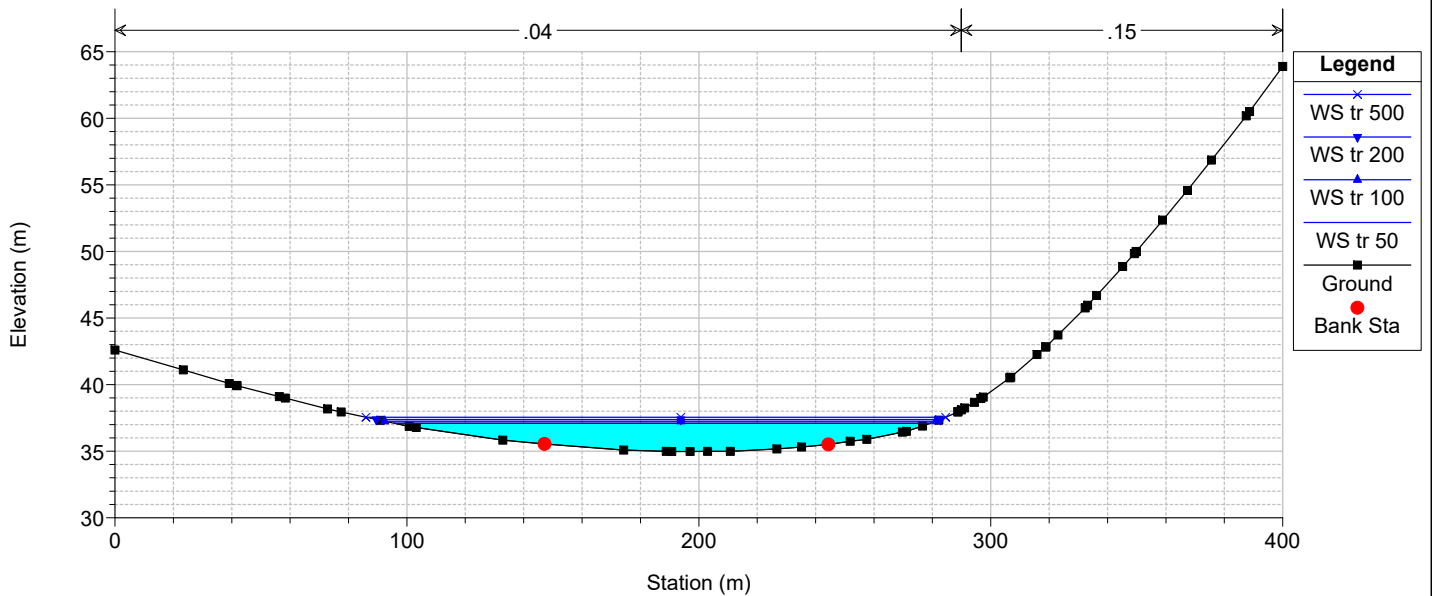
River = Fiume Santo Reach = Asta 2 RS = 8900 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

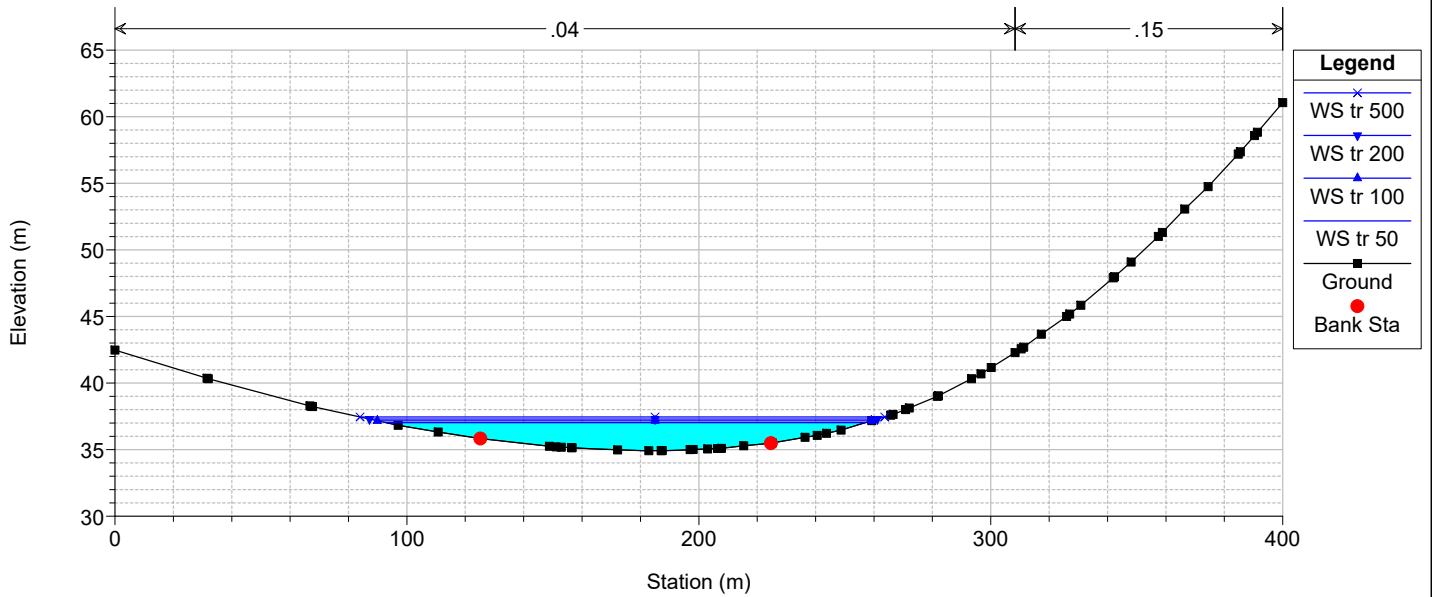
River = Fiume Santo Reach = Asta 2 RS = 8800 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

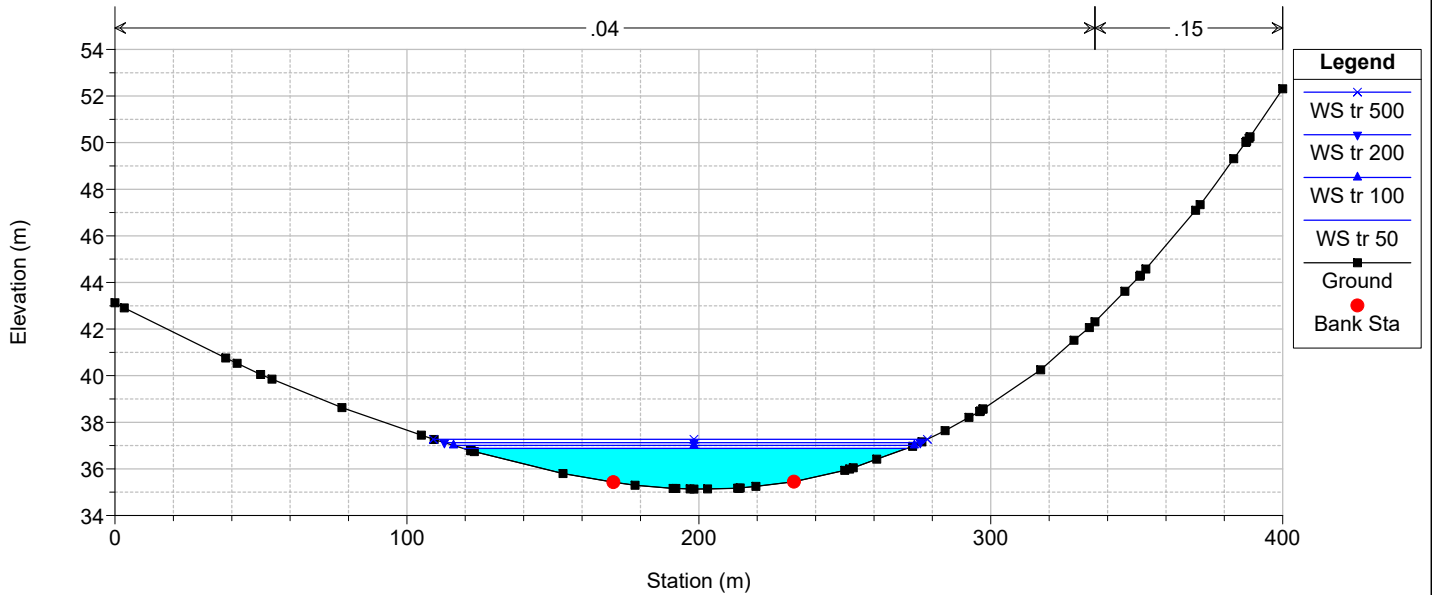
River = Fiume Santo Reach = Asta 2 RS = 8700 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

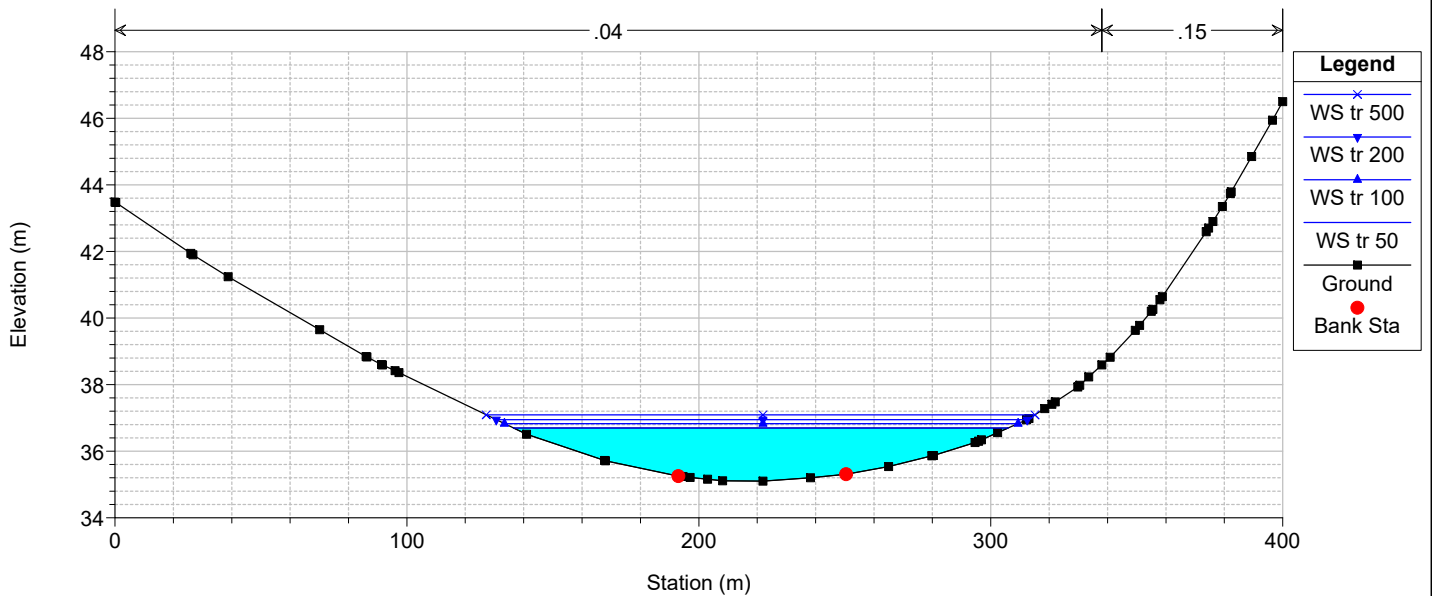
River = Fiume Santo Reach = Asta 2 RS = 8600 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

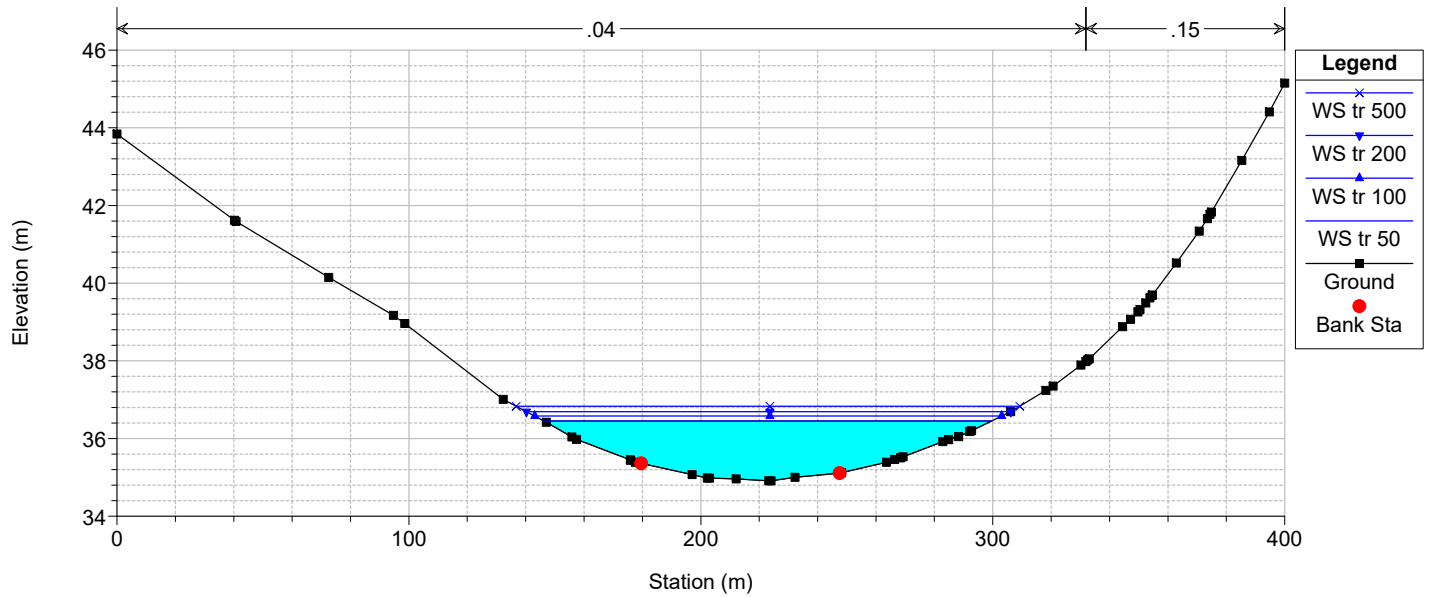
River = Fiume Santo Reach = Asta 2 RS = 8500 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

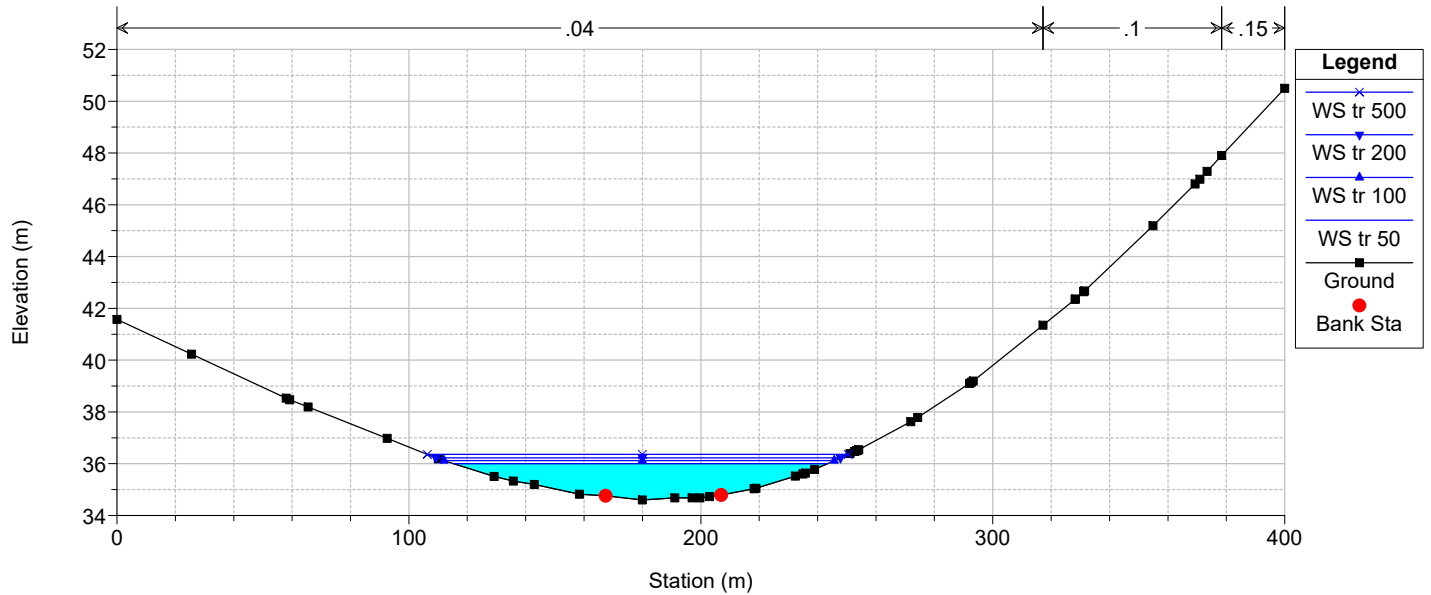
River = Fiume Santo Reach = Asta 2 RS = 8400 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

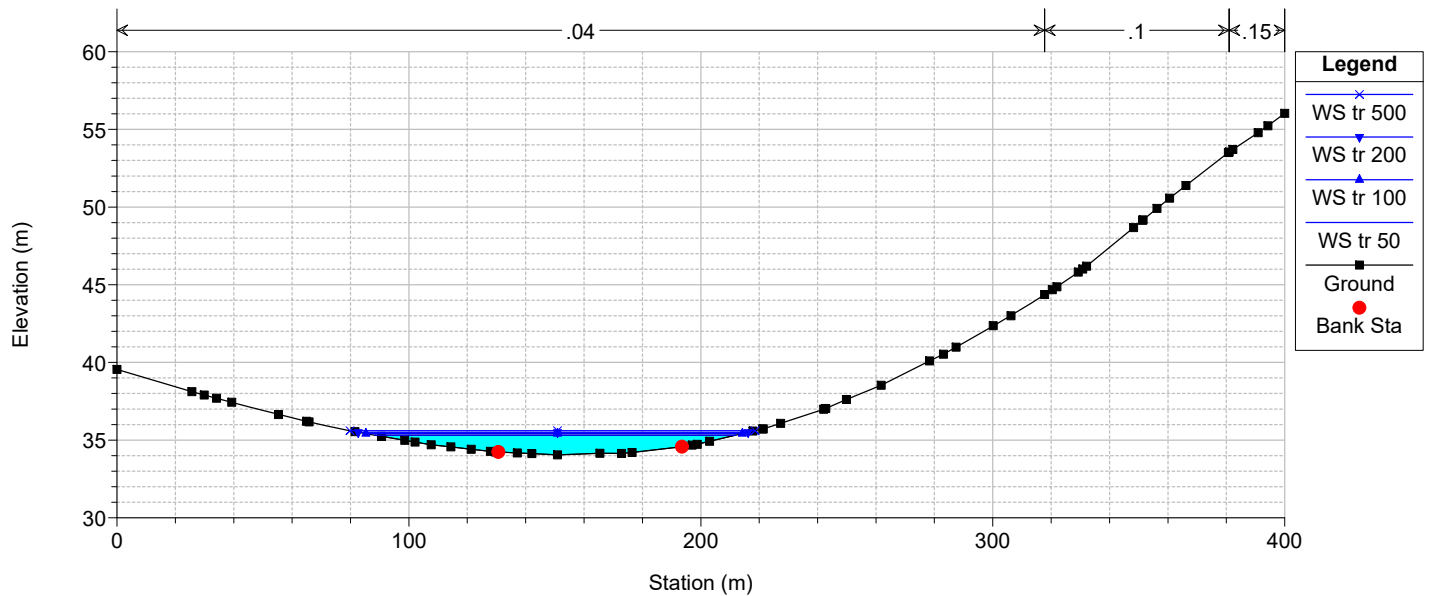
River = Fiume Santo Reach = Asta 2 RS = 8300 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

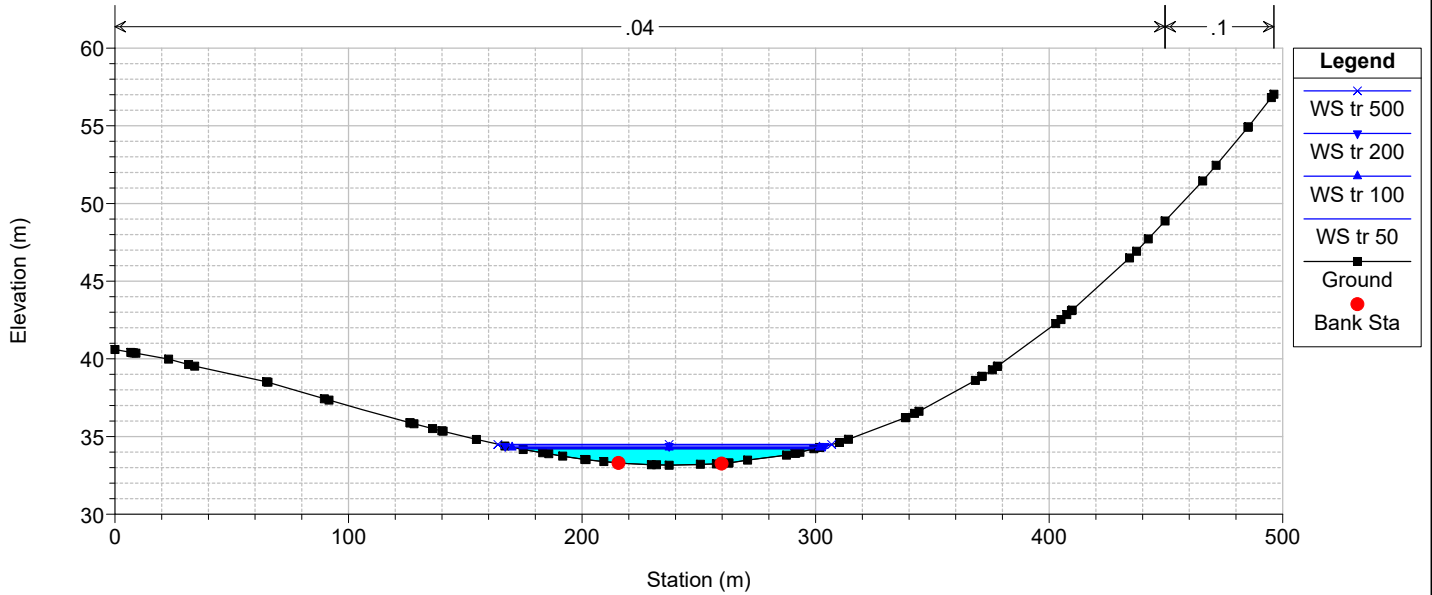
River = Fiume Santo Reach = Asta 2 RS = 8200 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

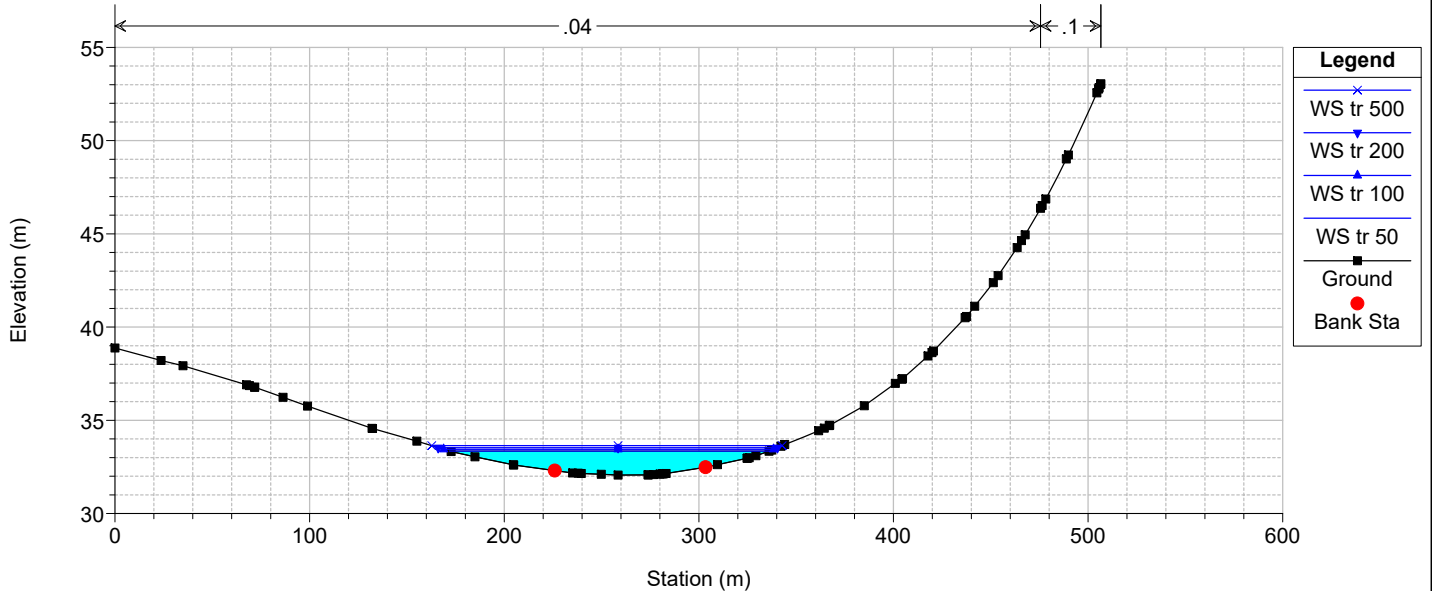
River = Fiume Santo Reach = Asta 2 RS = 8099.817 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

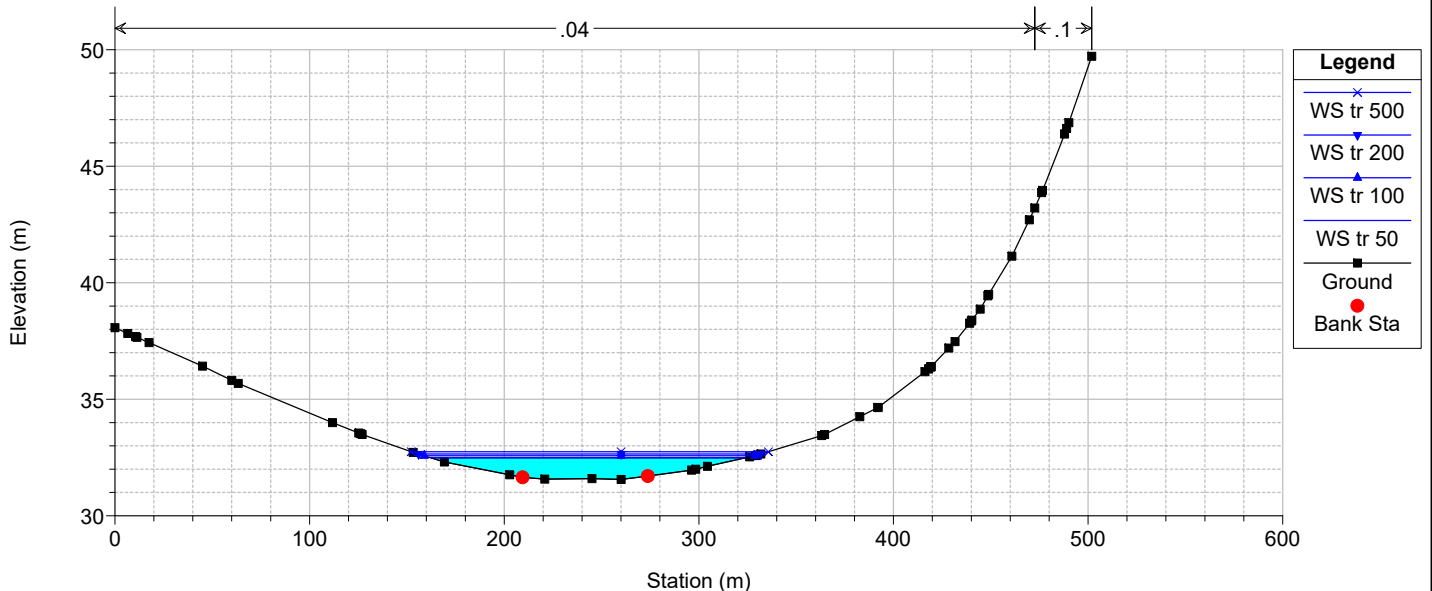
River = Fiume Santo Reach = Asta 2 RS = 7998.816 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

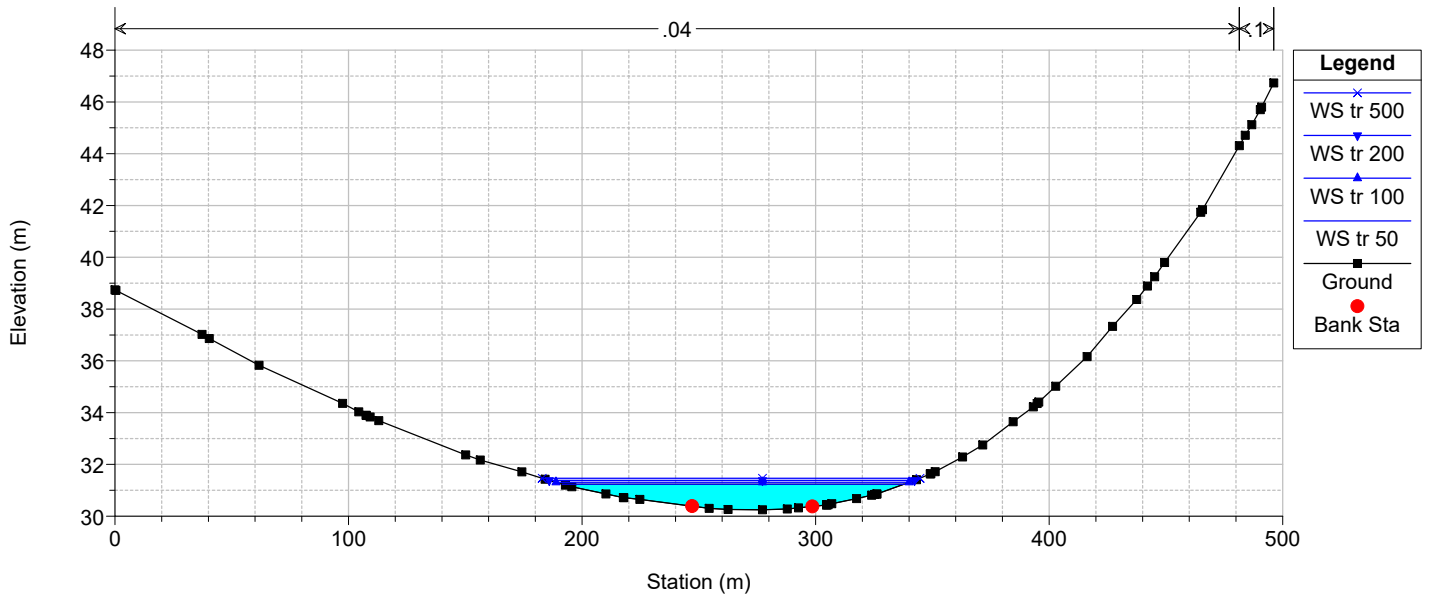
River = Fiume Santo Reach = Asta 2 RS = 7886.218 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

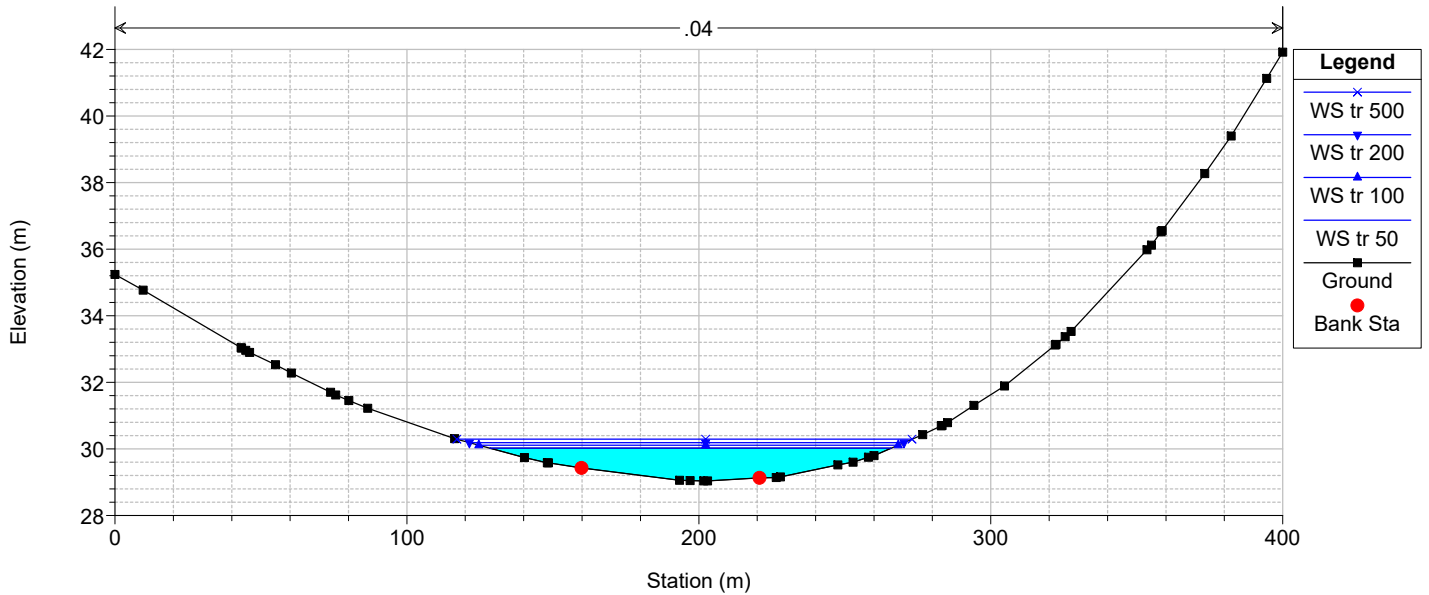
River = Fiume Santo Reach = Asta 2 RS = 7785.472 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

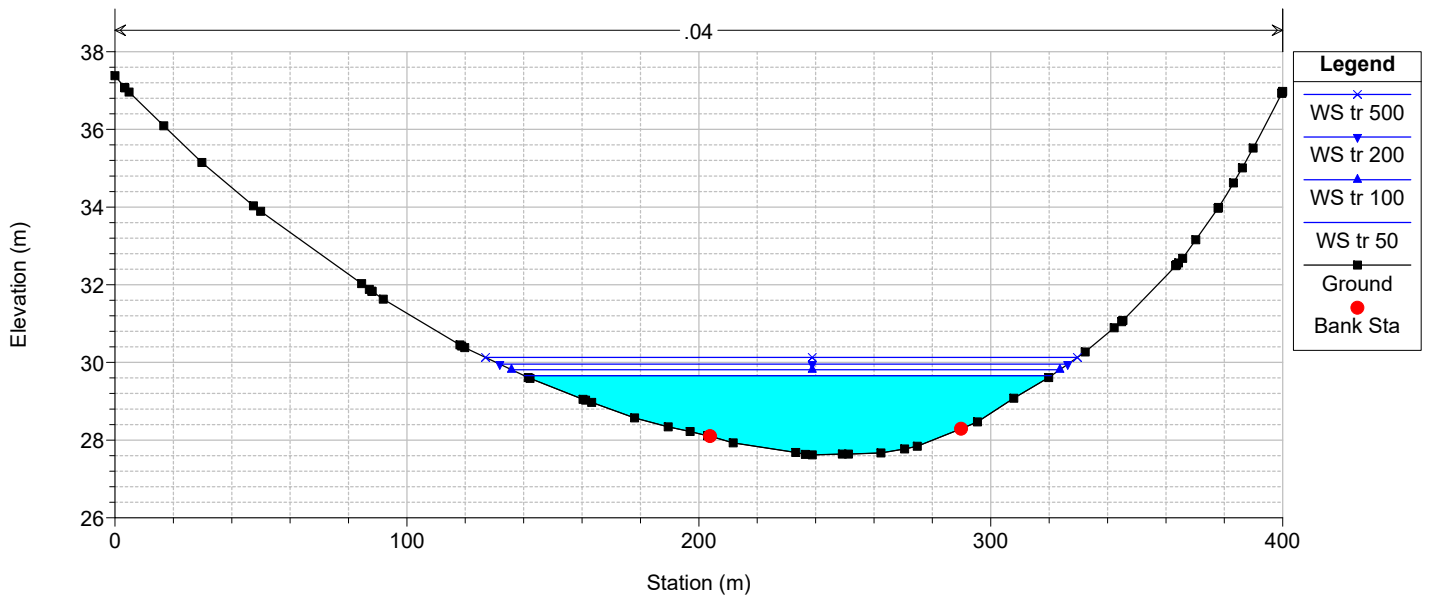
River = Fiume Santo Reach = Asta 2 RS = 7700 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

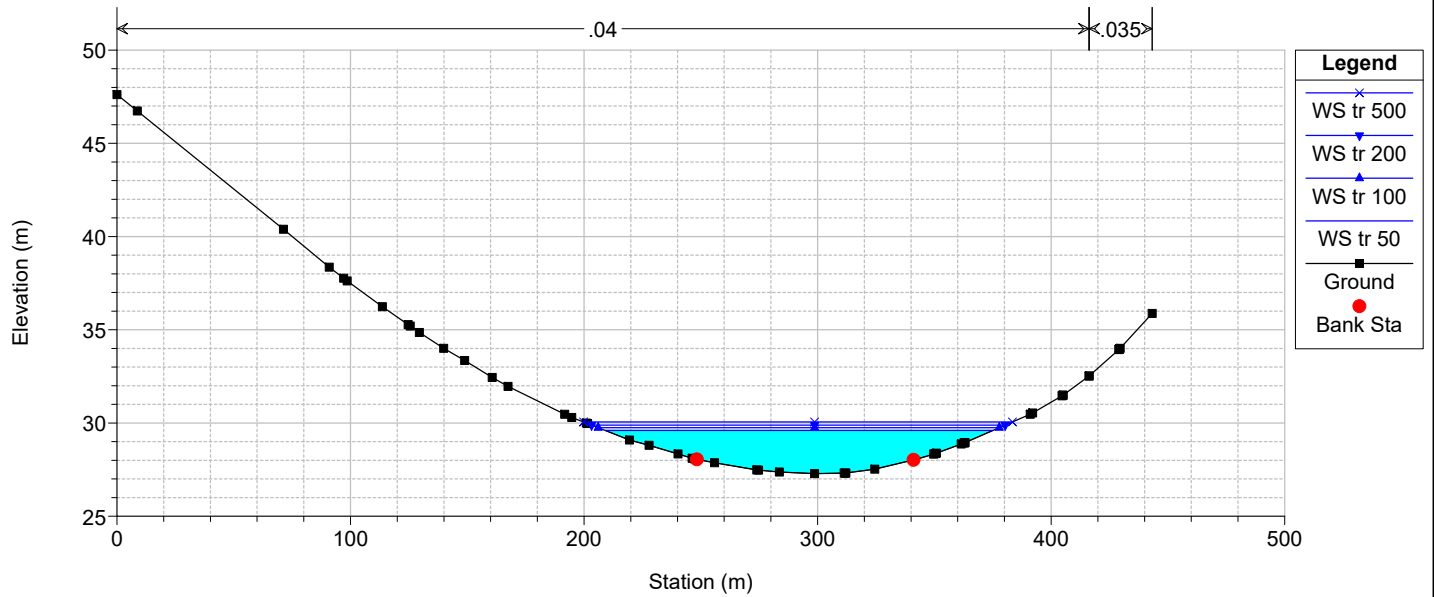
River = Fiume Santo Reach = Asta 2 RS = 7600 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

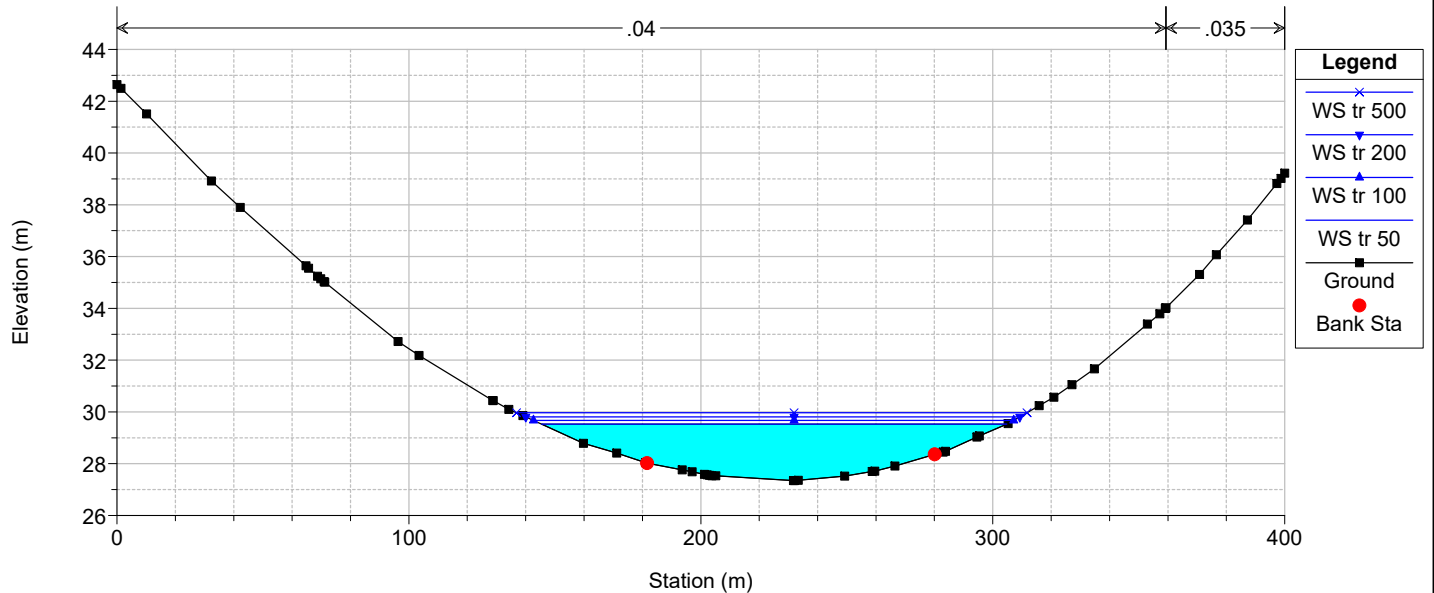
River = Fiume Santo Reach = Asta 2 RS = 7500.011 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

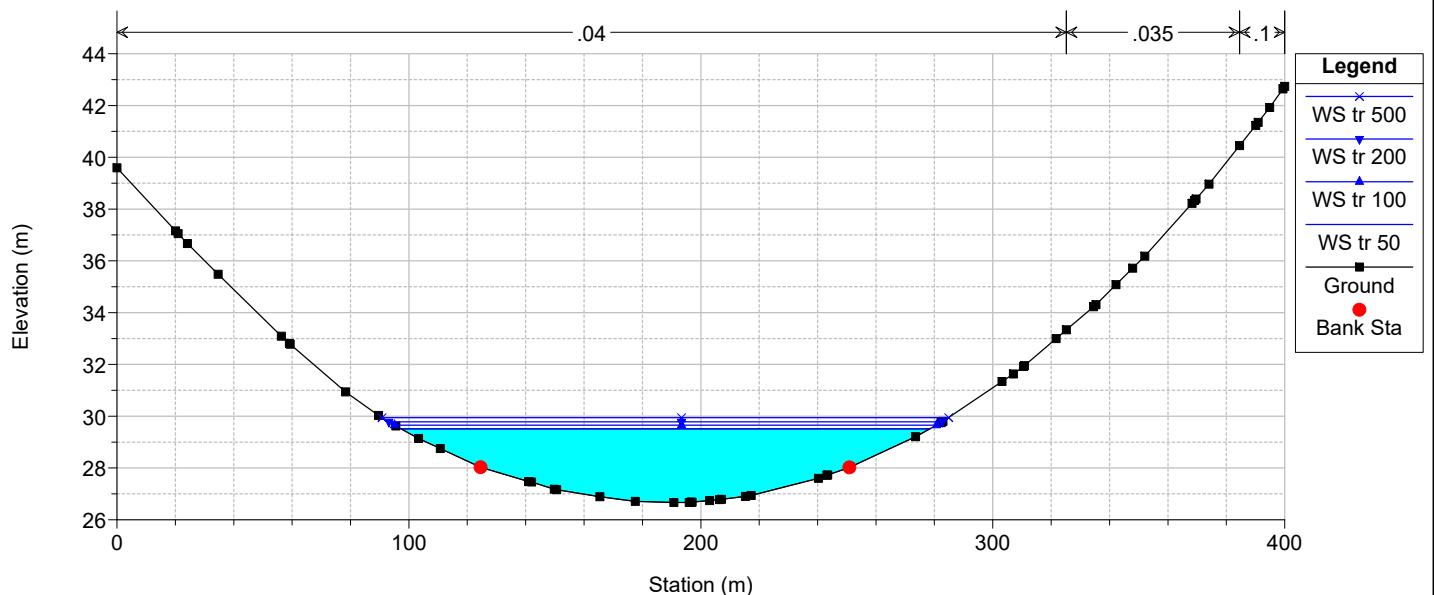
River = Fiume Santo Reach = Asta 2 RS = 7400 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

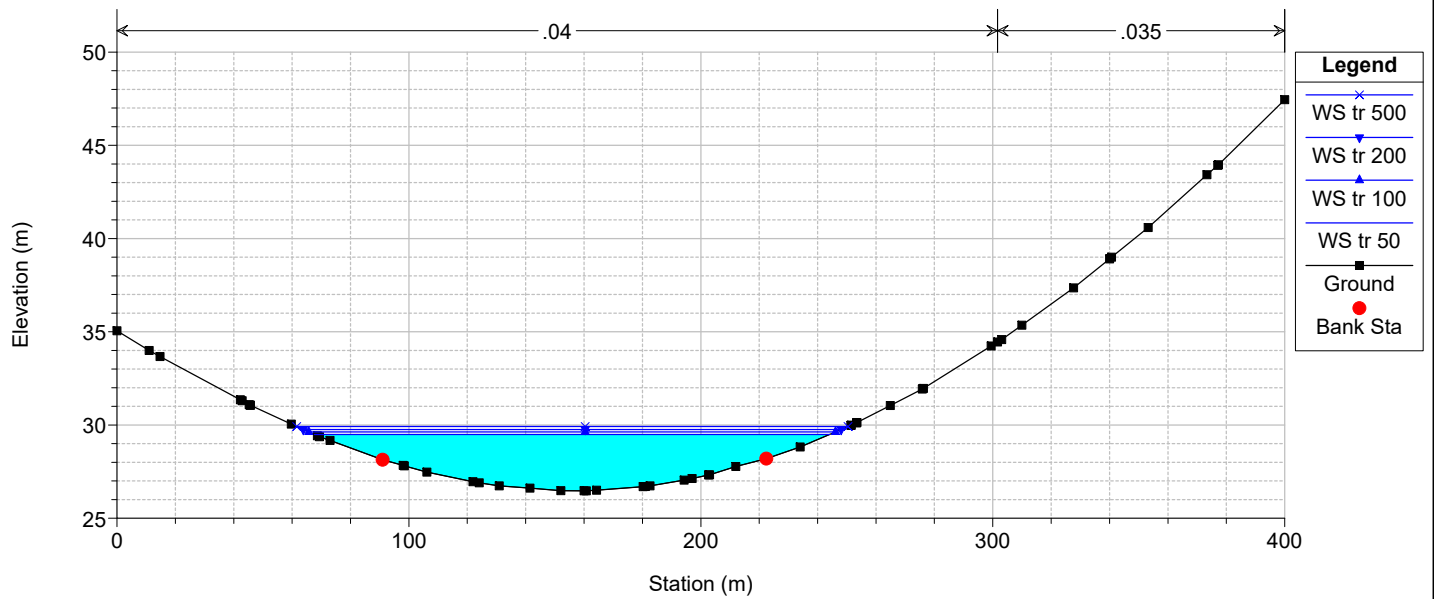
River = Fiume Santo Reach = Asta 2 RS = 7300 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

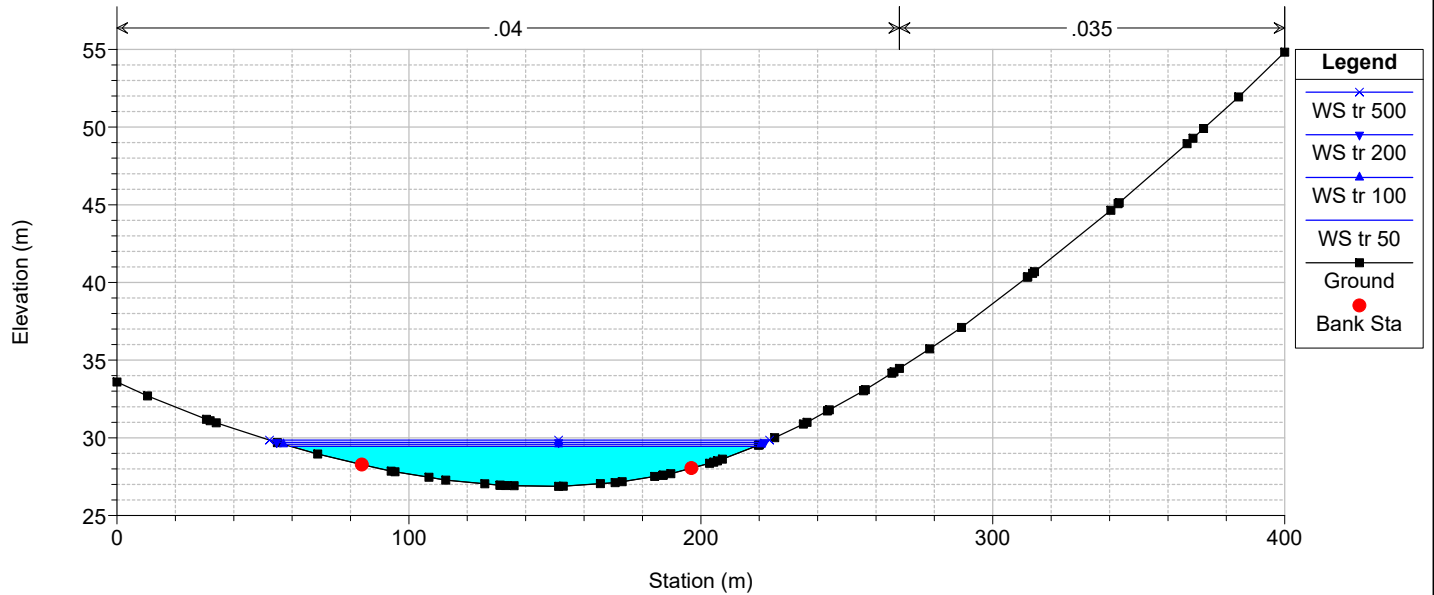
River = Fiume Santo Reach = Asta 2 RS = 7200 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

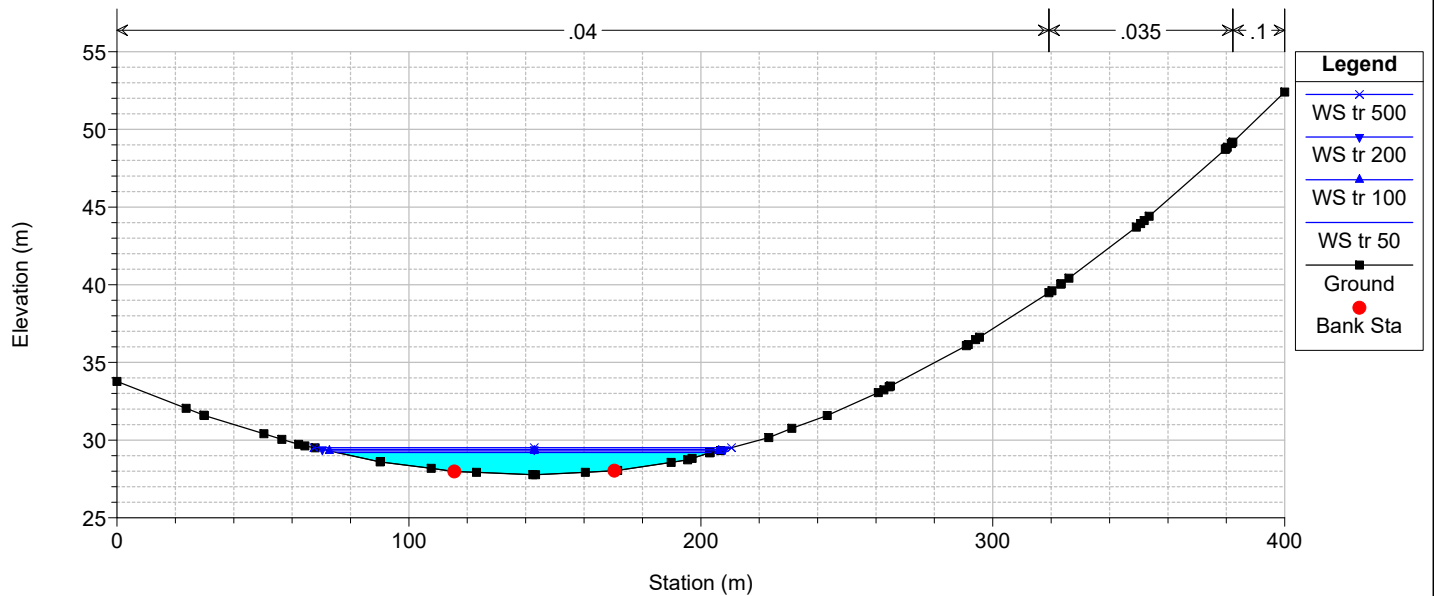
River = Fiume Santo Reach = Asta 2 RS = 7100 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

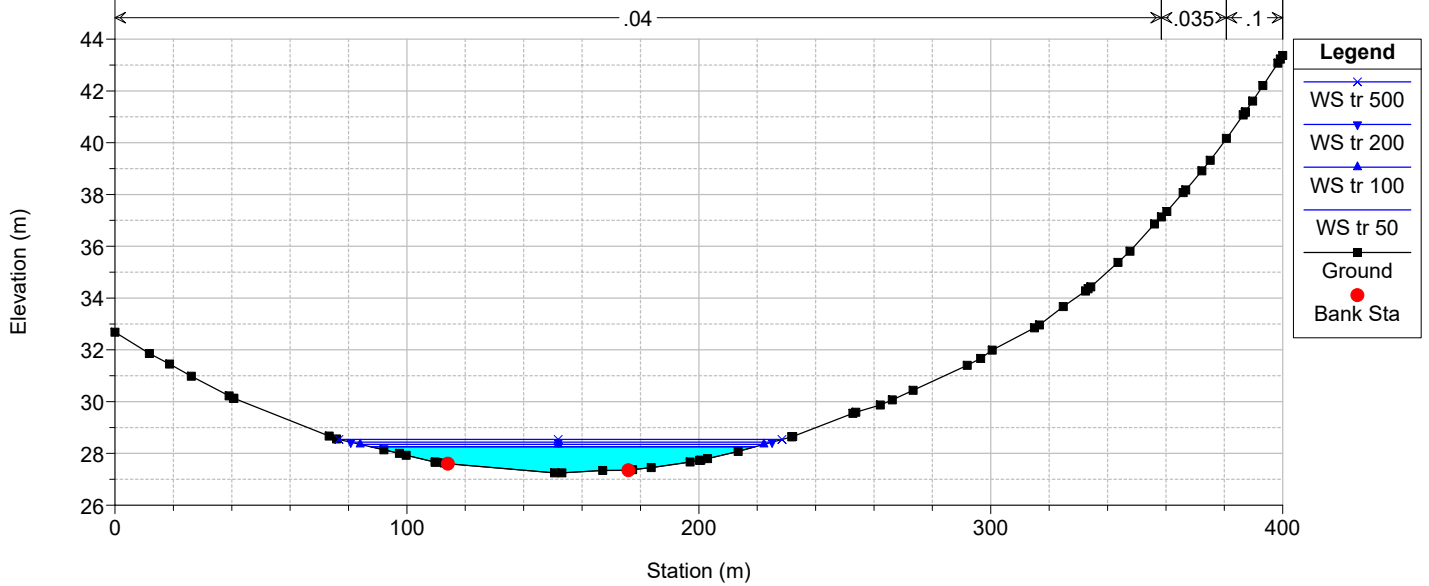
River = Fiume Santo Reach = Asta 2 RS = 7000 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

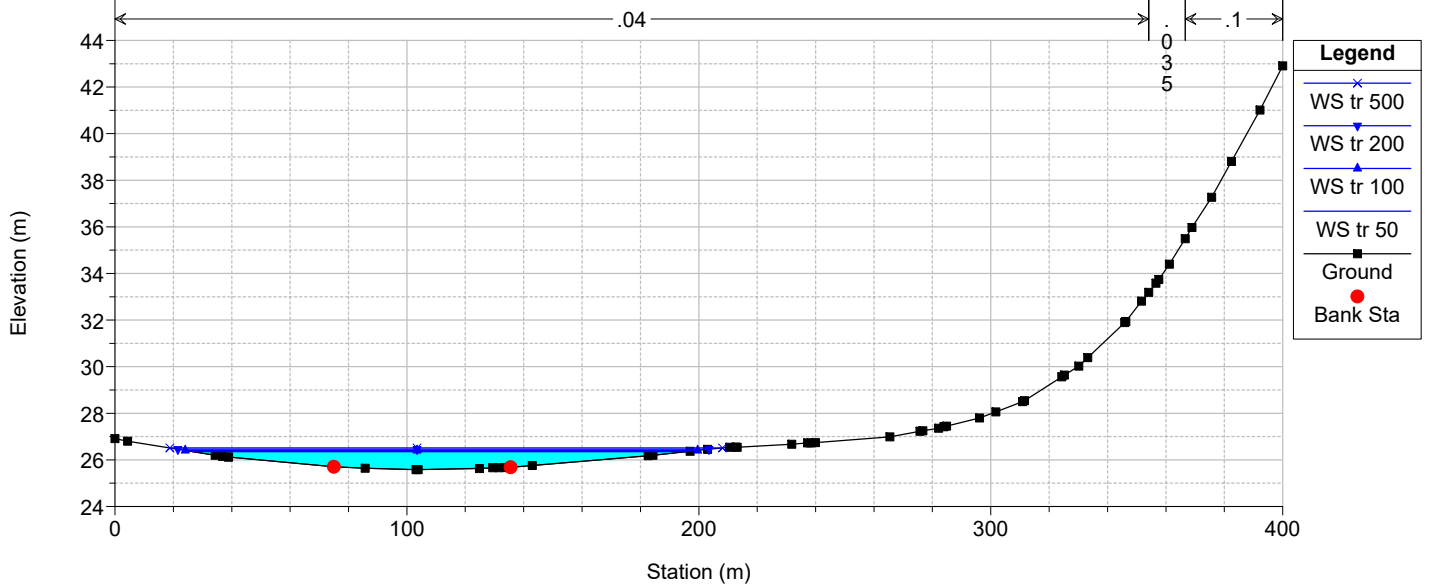
River = Fiume Santo Reach = Asta 2 RS = 6900 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

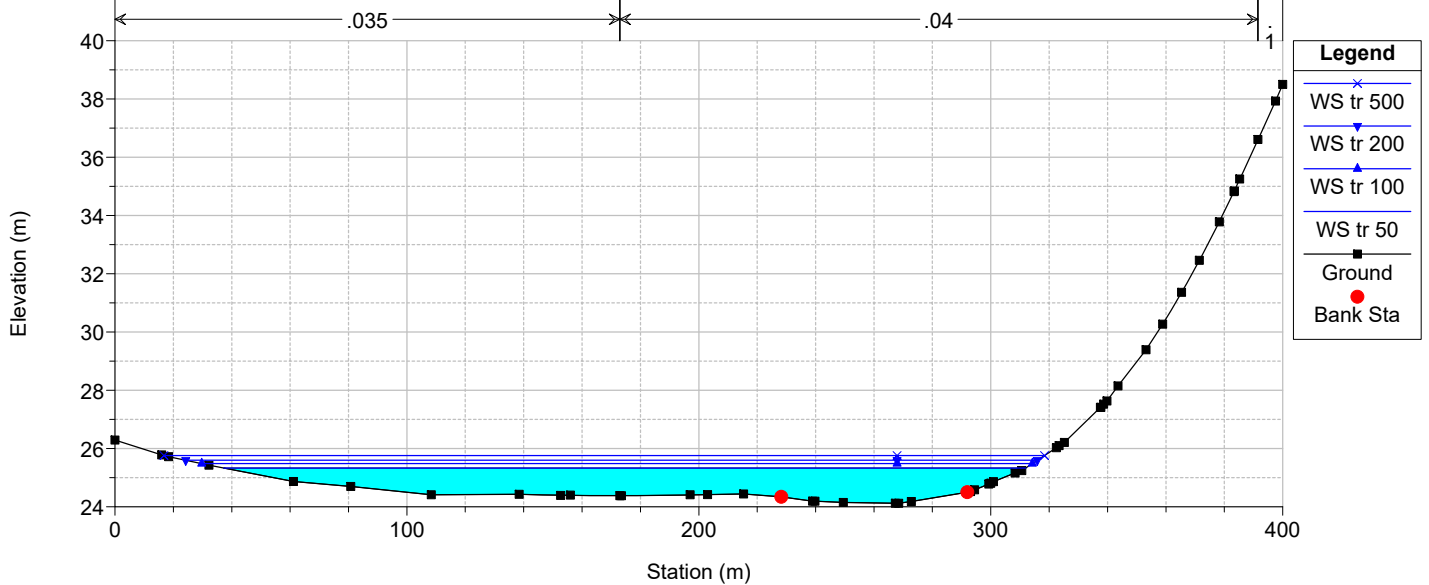
River = Fiume Santo Reach = Asta 2 RS = 6800 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

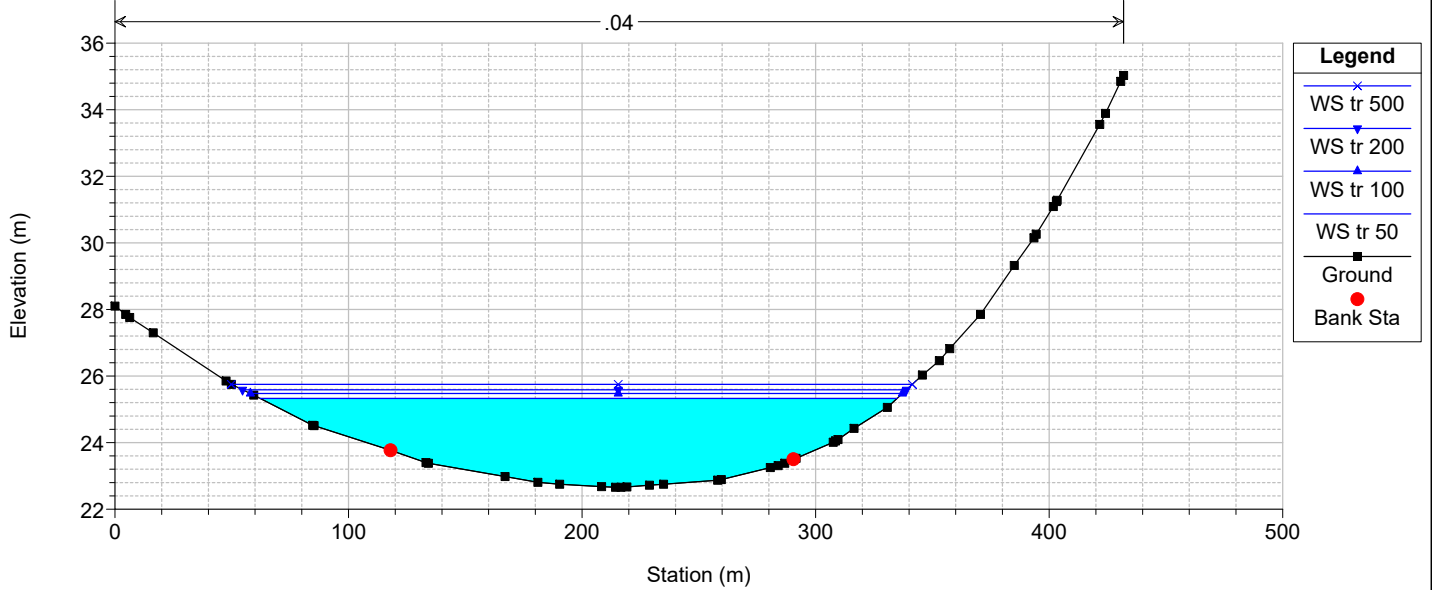
River = Fiume Santo Reach = Asta 2 RS = 6700 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

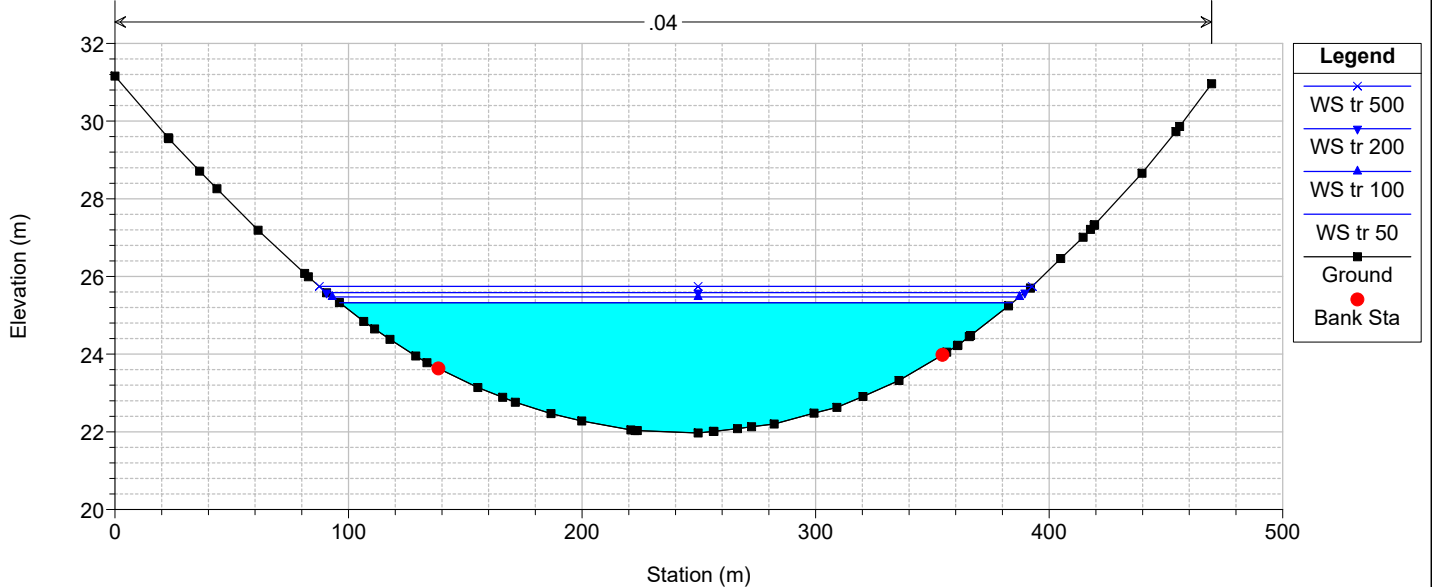
River = Fiume Santo Reach = Asta 2 RS = 6600.378 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

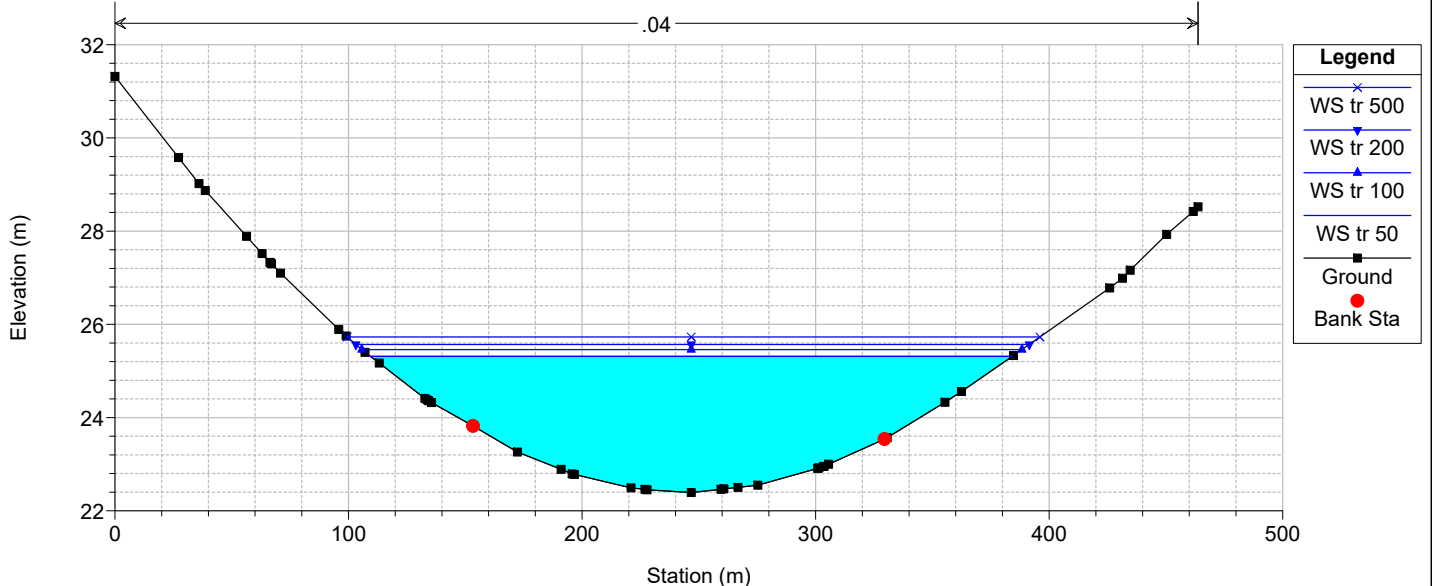
River = Fiume Santo Reach = Asta 2 RS = 6497.271 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

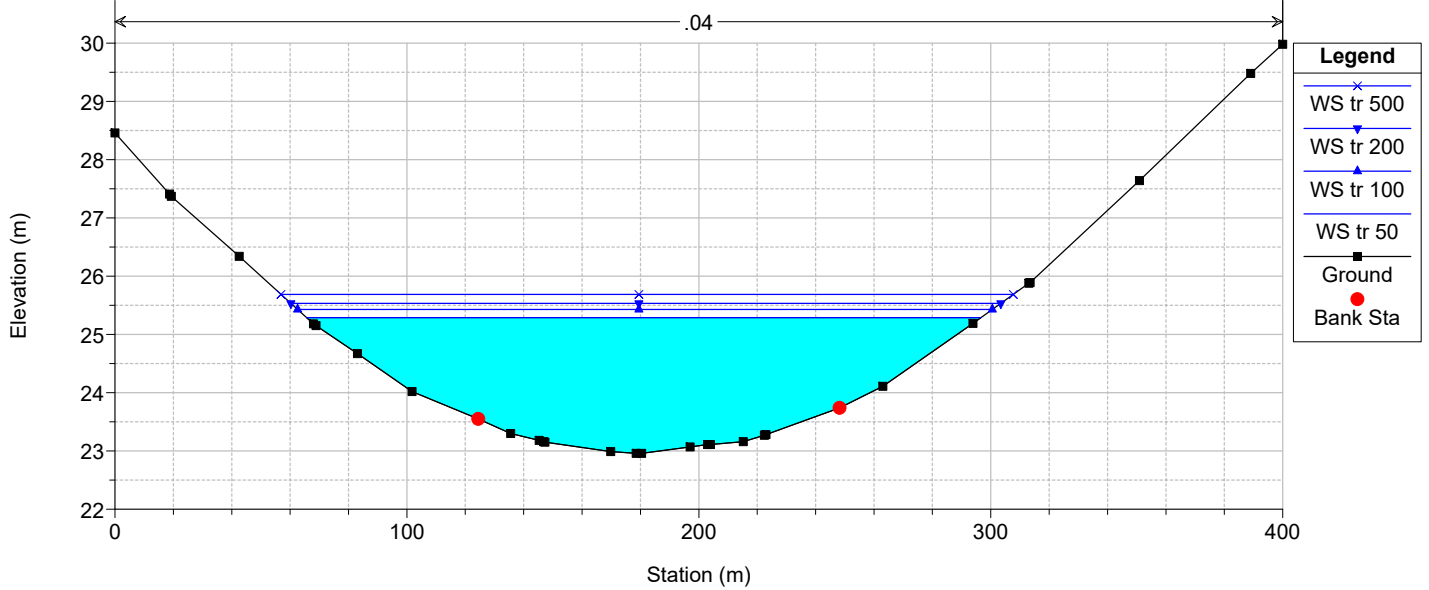
River = Fiume Santo Reach = Asta 2 RS = 6398.376 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

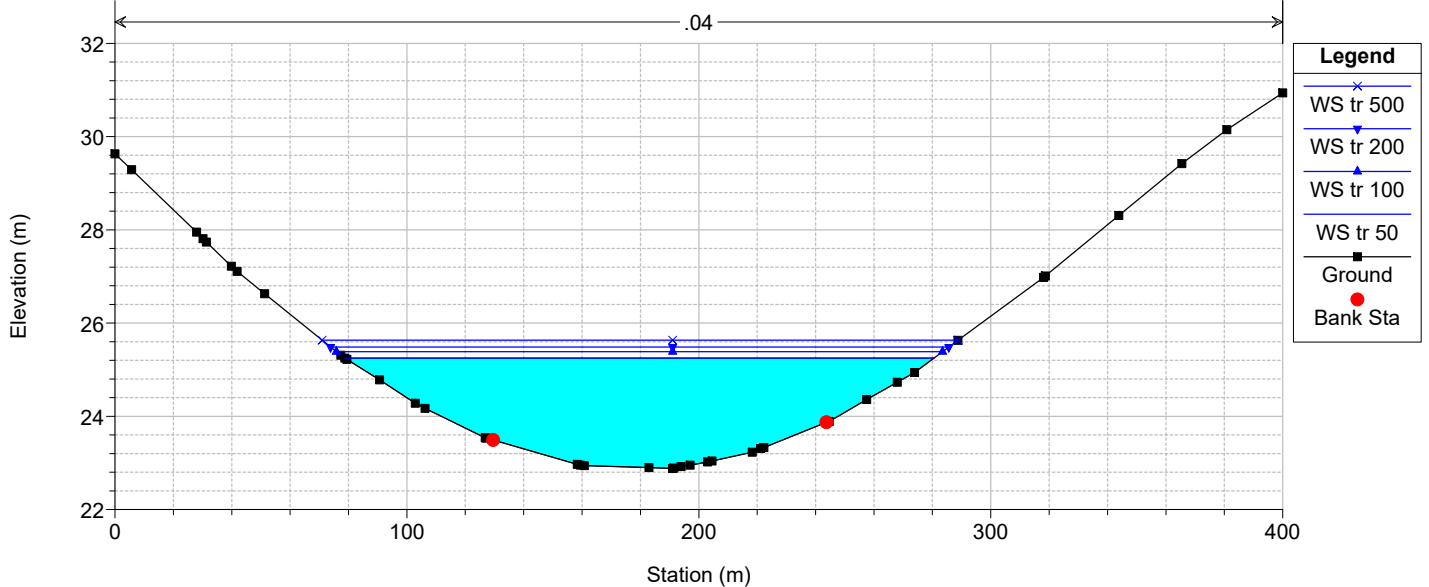
River = Fiume Santo Reach = Asta 2 RS = 6300 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

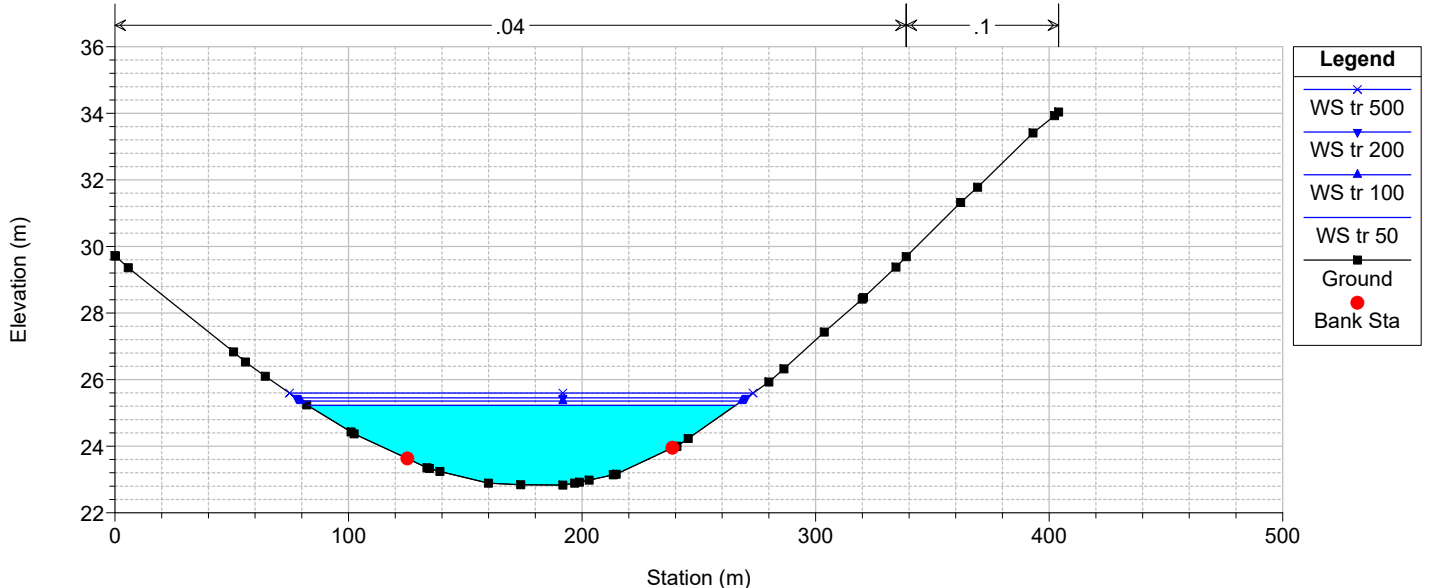
River = Fiume Santo Reach = Asta 2 RS = 6200 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

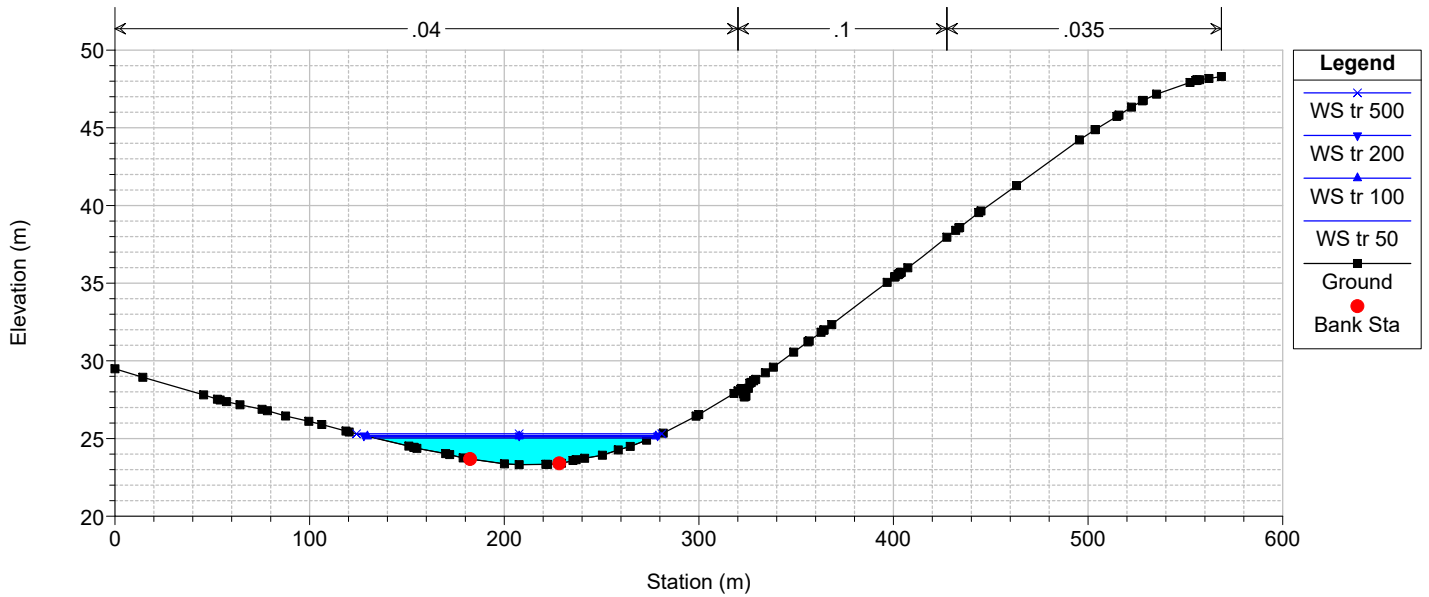
River = Fiume Santo Reach = Asta 2 RS = 6140.594 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

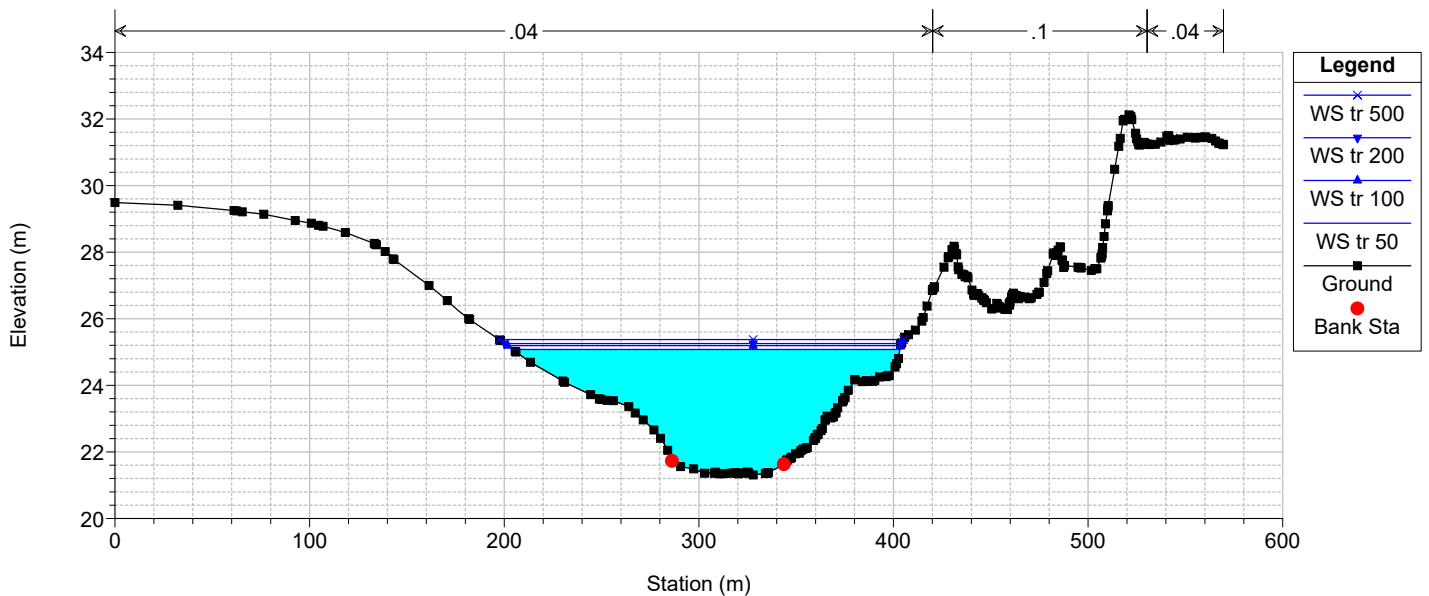
River = Fiume Santo Reach = Asta 2 RS = 6012.01 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

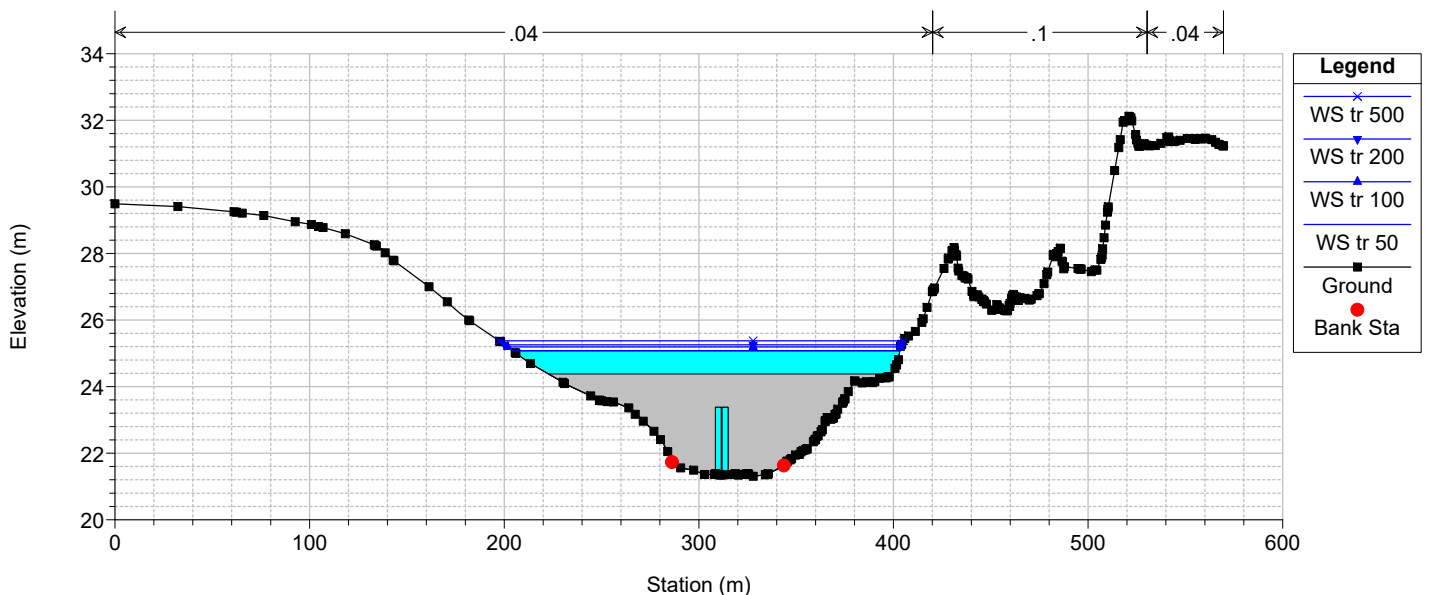
River = Fiume Santo Reach = Asta 2 RS = 5932.53 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

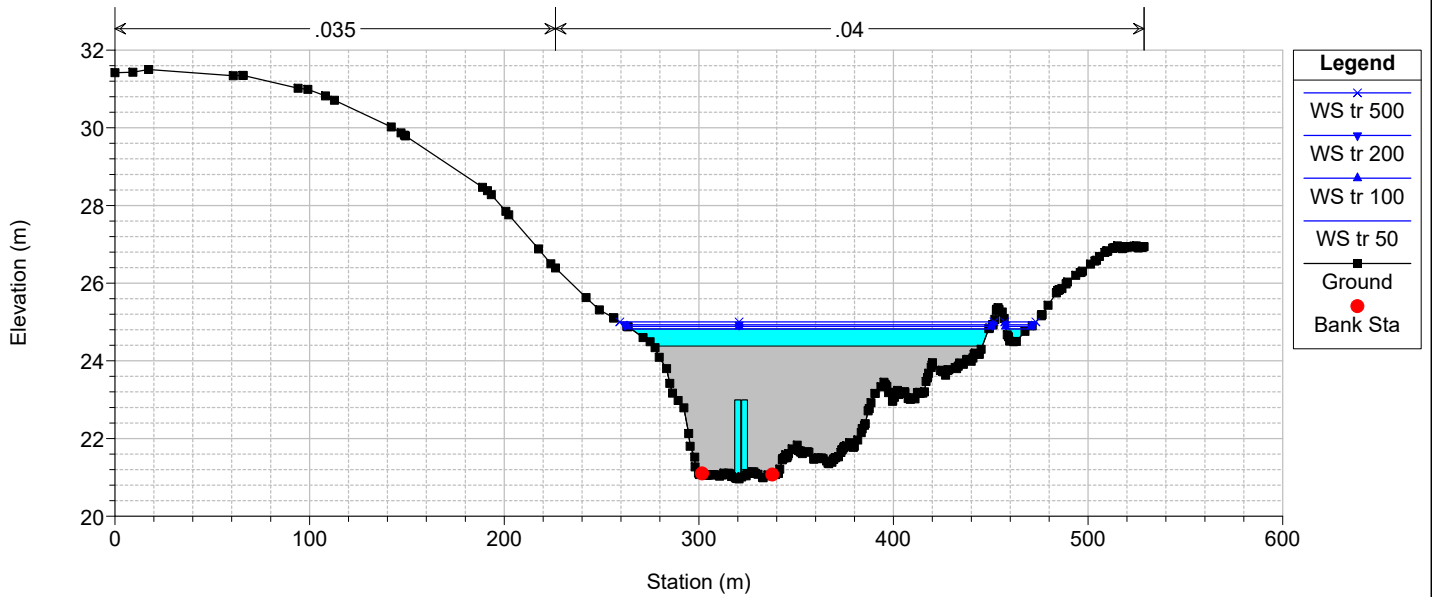
River = Fiume Santo Reach = Asta 2 RS = 5916.695 Culv B12 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

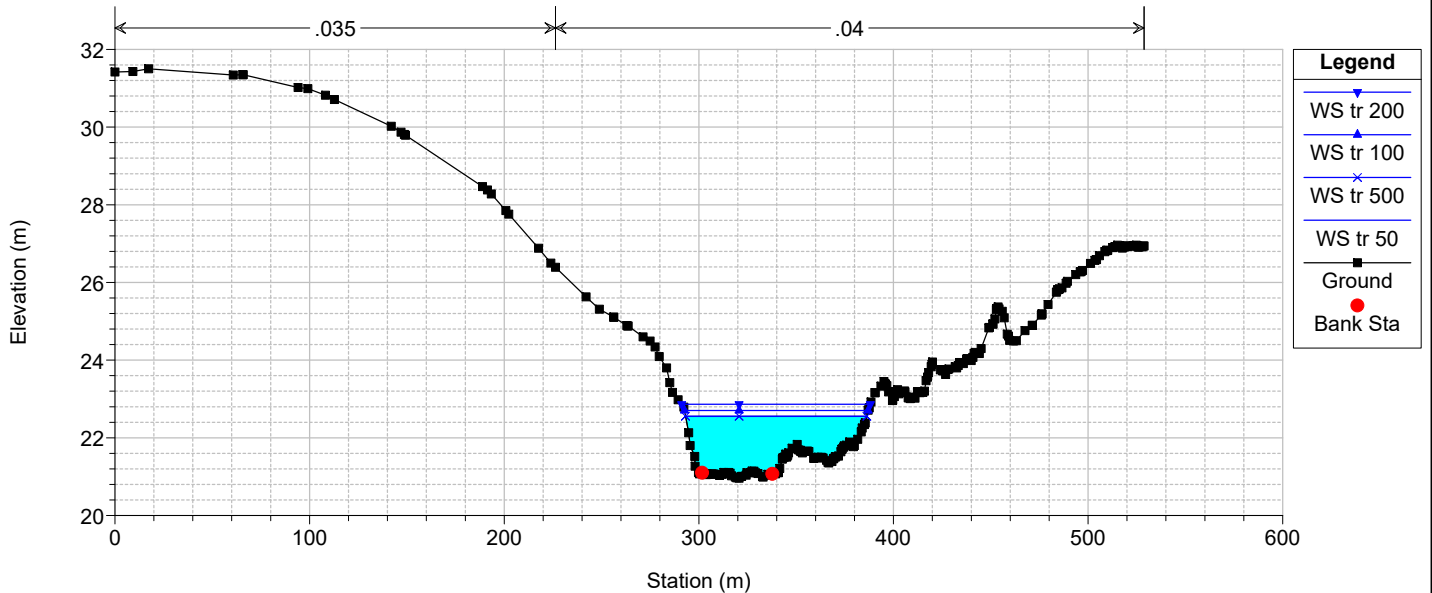
River = Fiume Santo Reach = Asta 2 RS = 5916.695 Culv B12 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

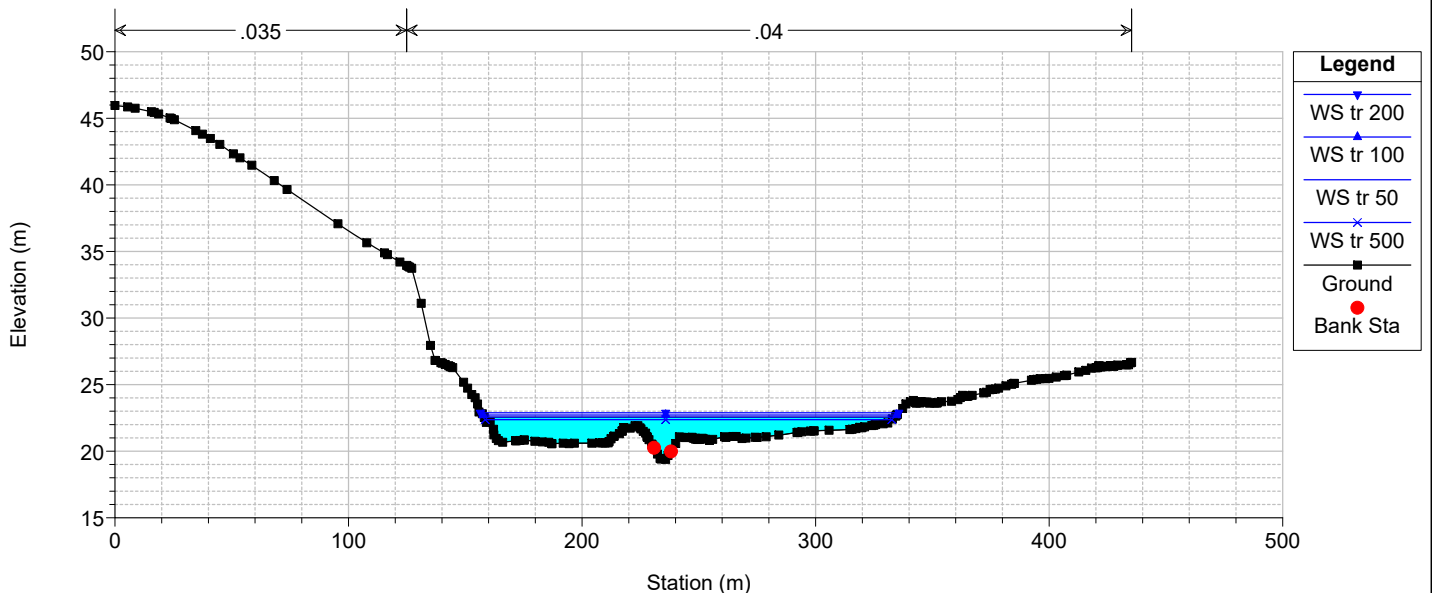
River = Fiume Santo Reach = Asta 2 RS = 5890.193 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

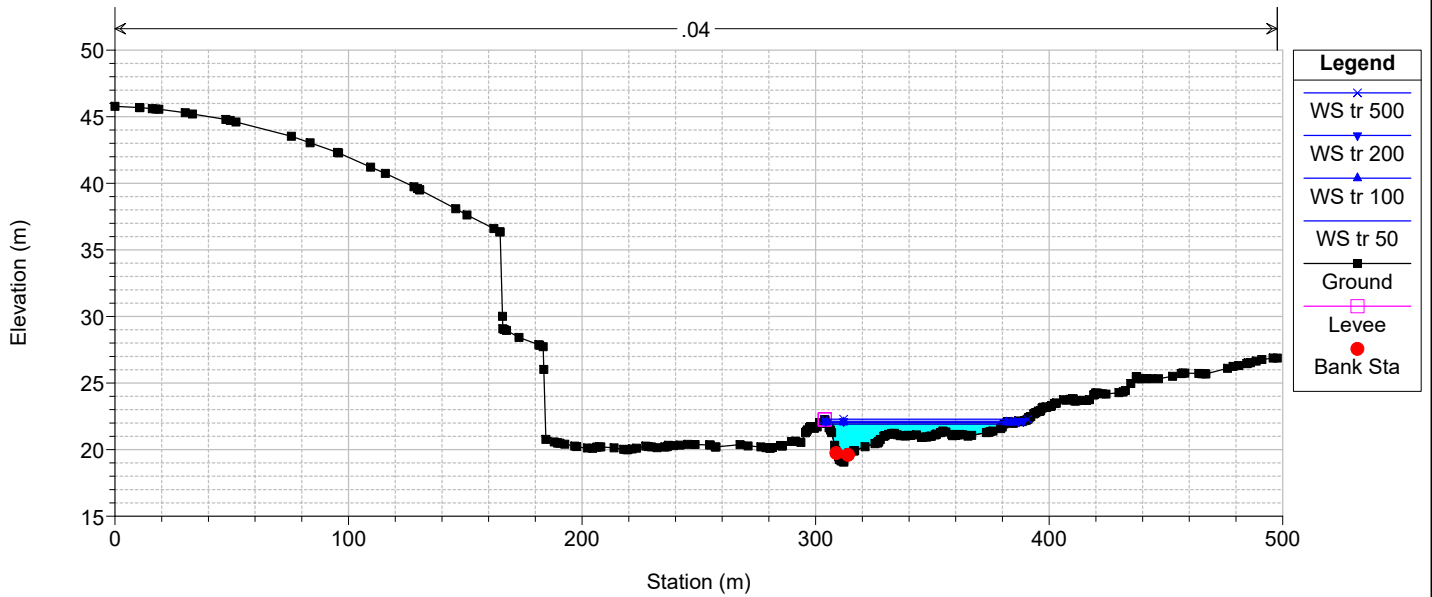
River = Fiume Santo Reach = Asta 2 RS = 5803.186 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

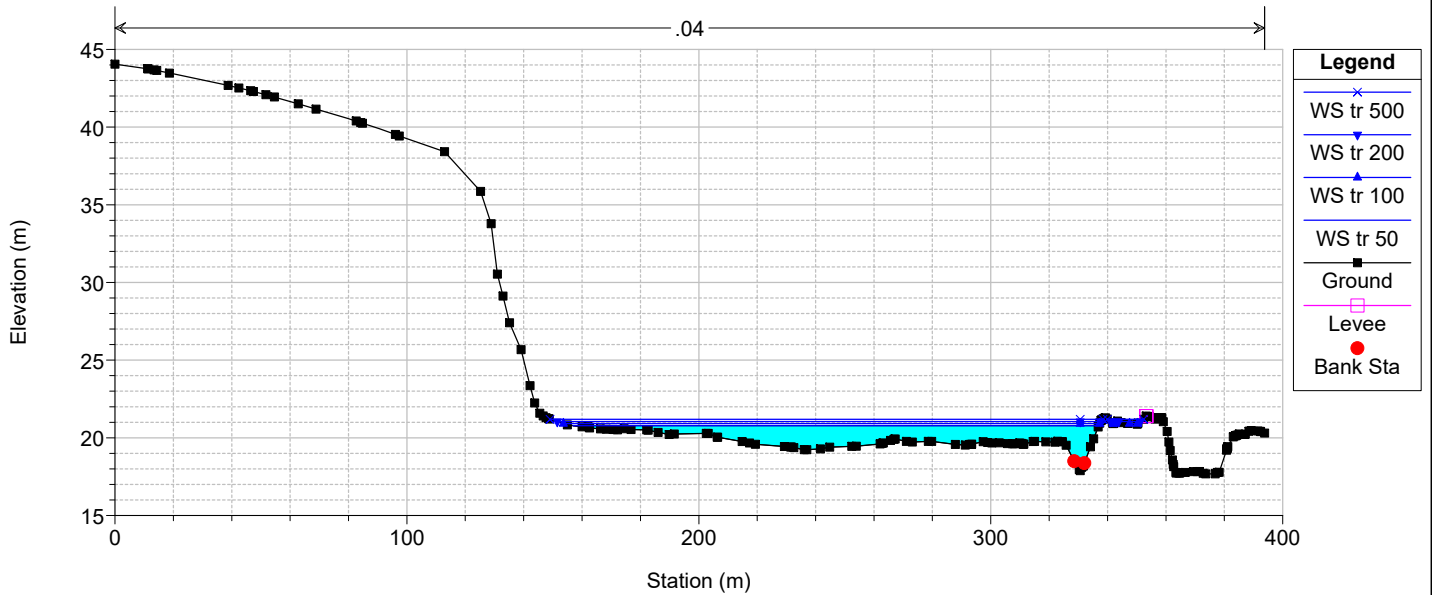
River = Fiume Santo Reach = Asta 2 RS = 5693.745 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

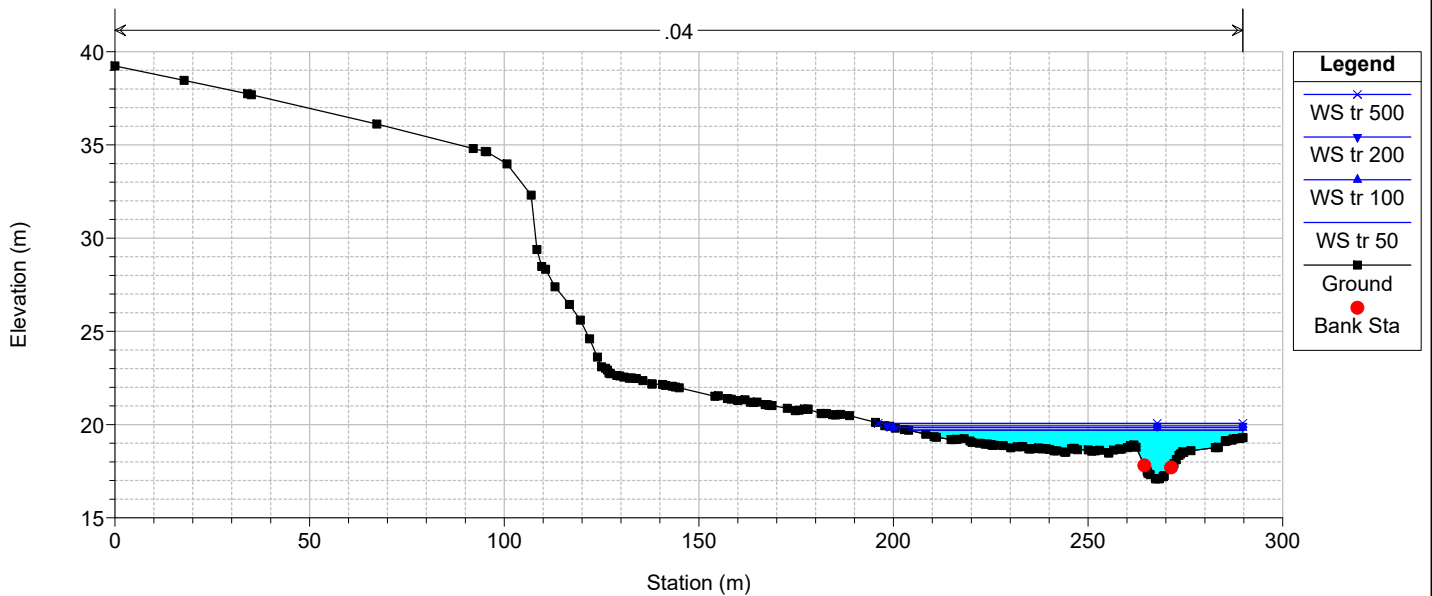
River = Fiume Santo Reach = Asta 2 RS = 5530.337 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

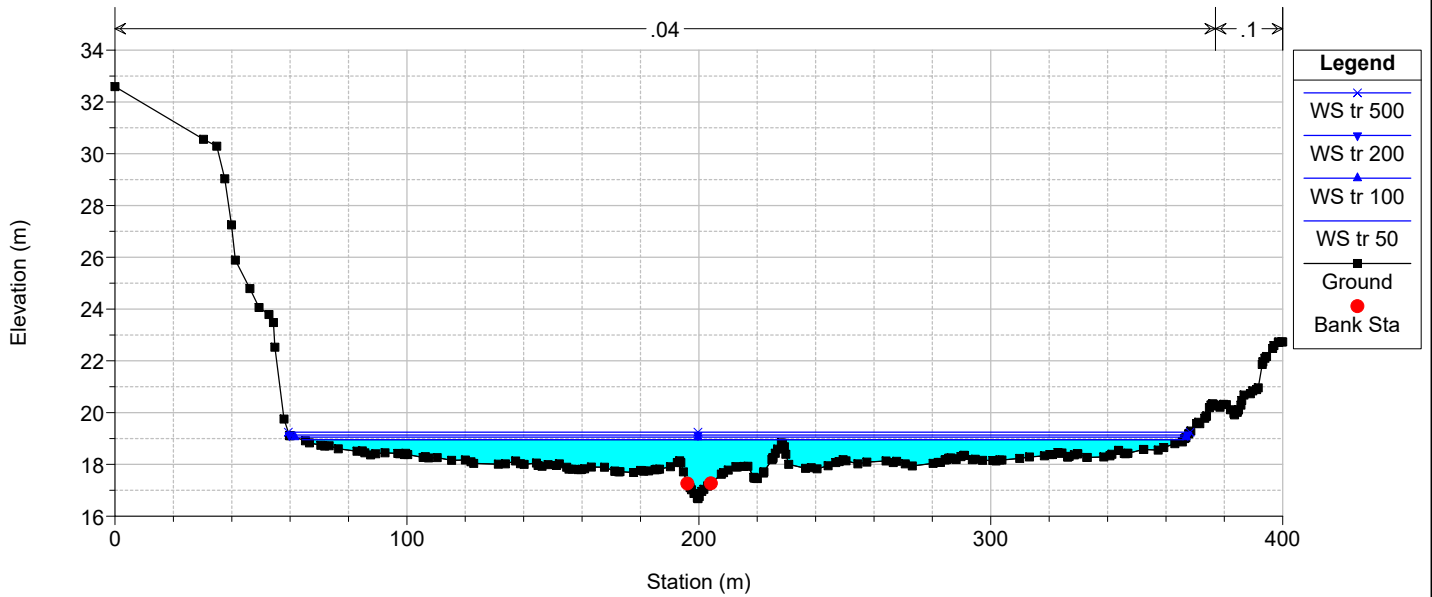
River = Fiume Santo Reach = Asta 2 RS = 5358.62 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

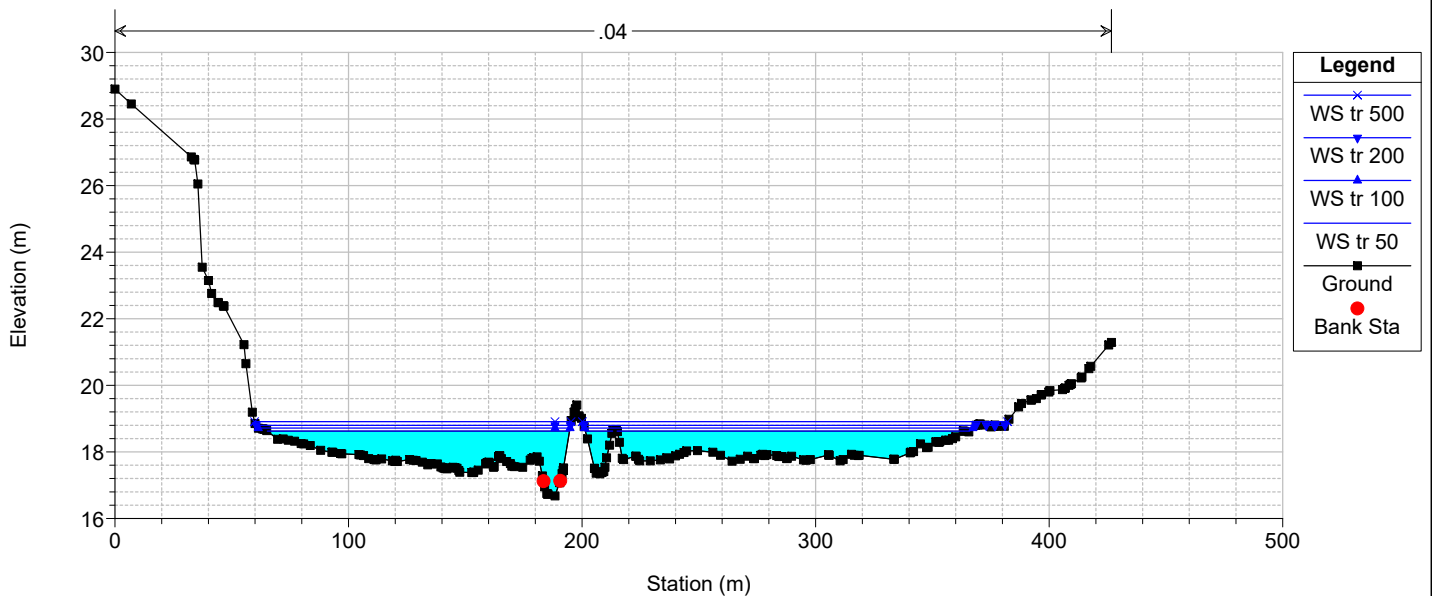
River = Fiume Santo Reach = Asta 3 RS = 5200 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

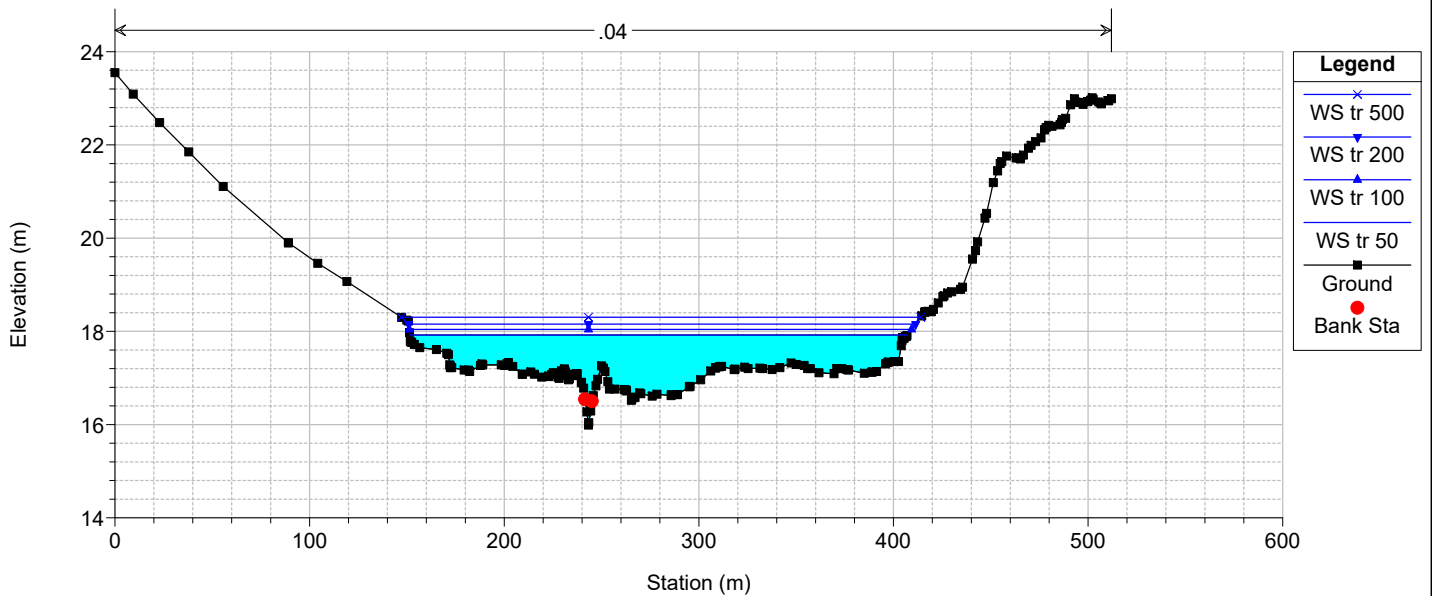
River = Fiume Santo Reach = Asta 3 RS = 5126.584 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

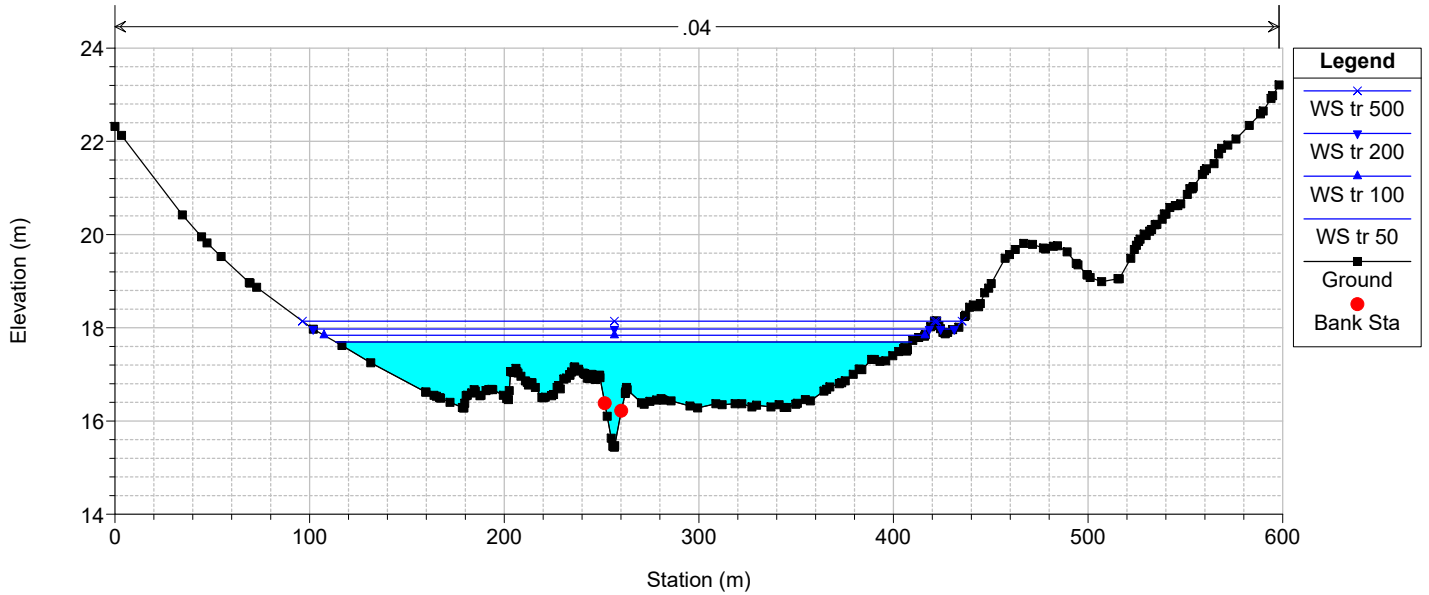
River = Fiume Santo Reach = Asta 3 RS = 4991.821 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

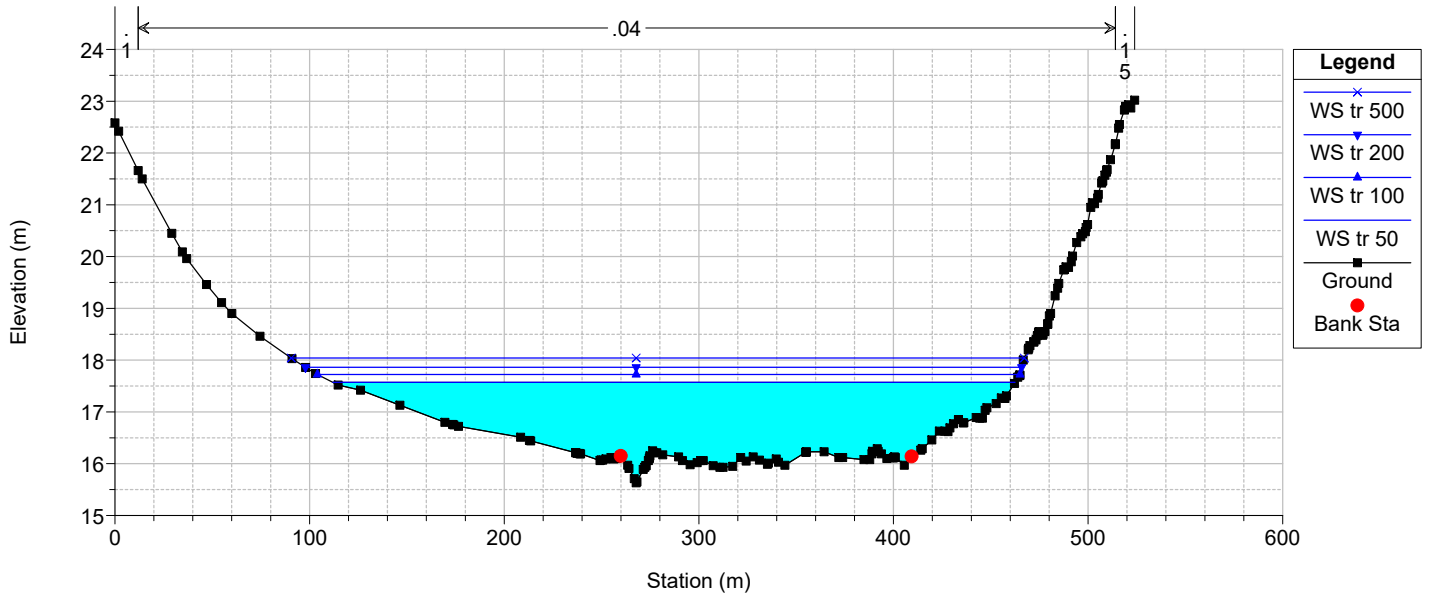
River = Fiume Santo Reach = Asta 3 RS = 4905.46 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

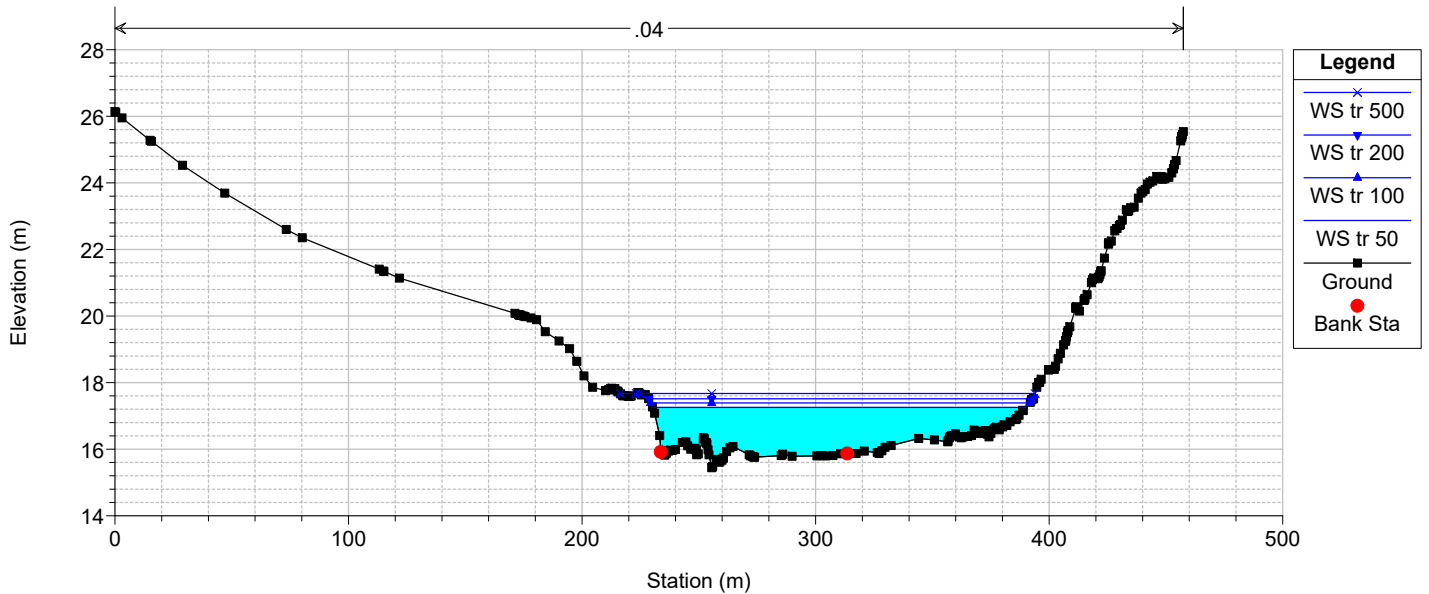
River = Fiume Santo Reach = Asta 3 RS = 4797.75 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

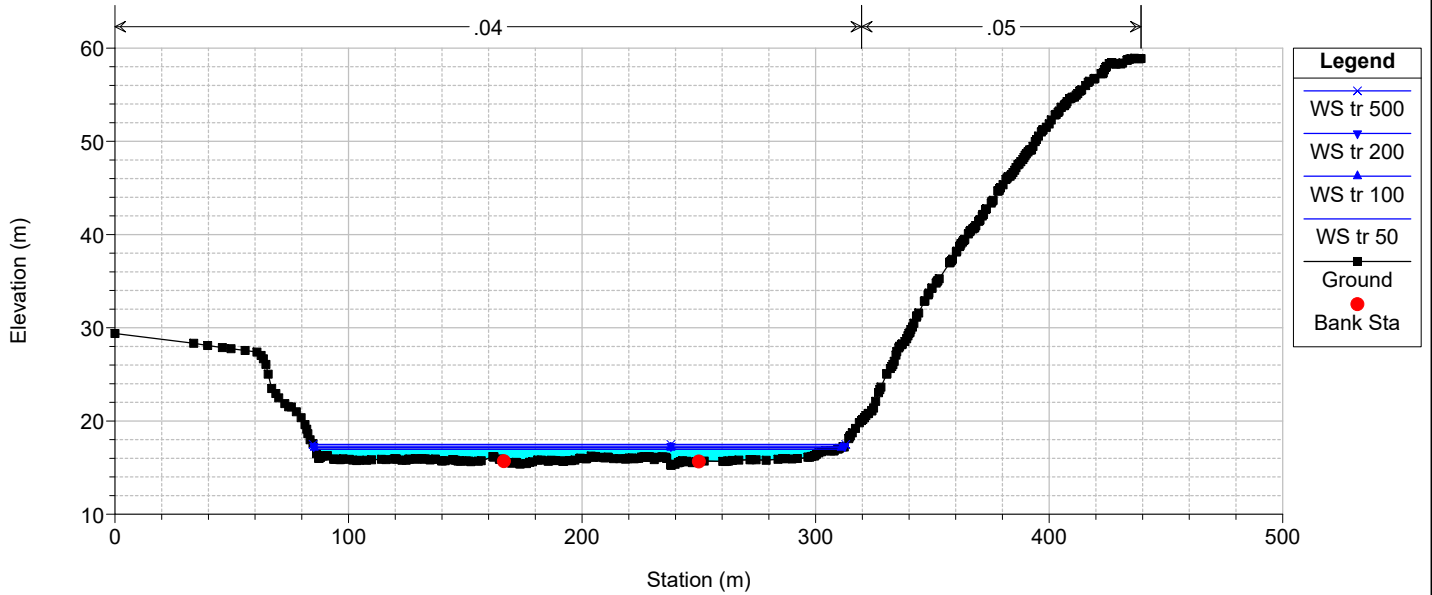
River = Fiume Santo Reach = Asta 3 RS = 4704.862 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

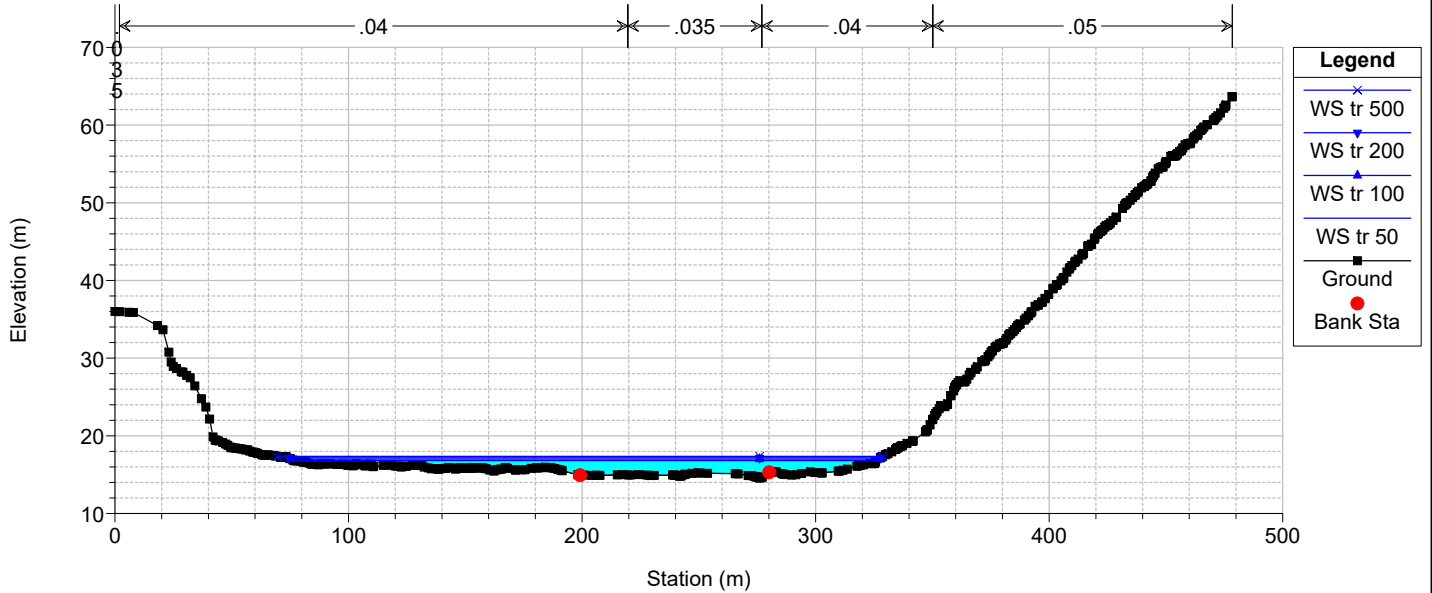
River = Fiume Santo Reach = Asta 3 RS = 4604.907 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

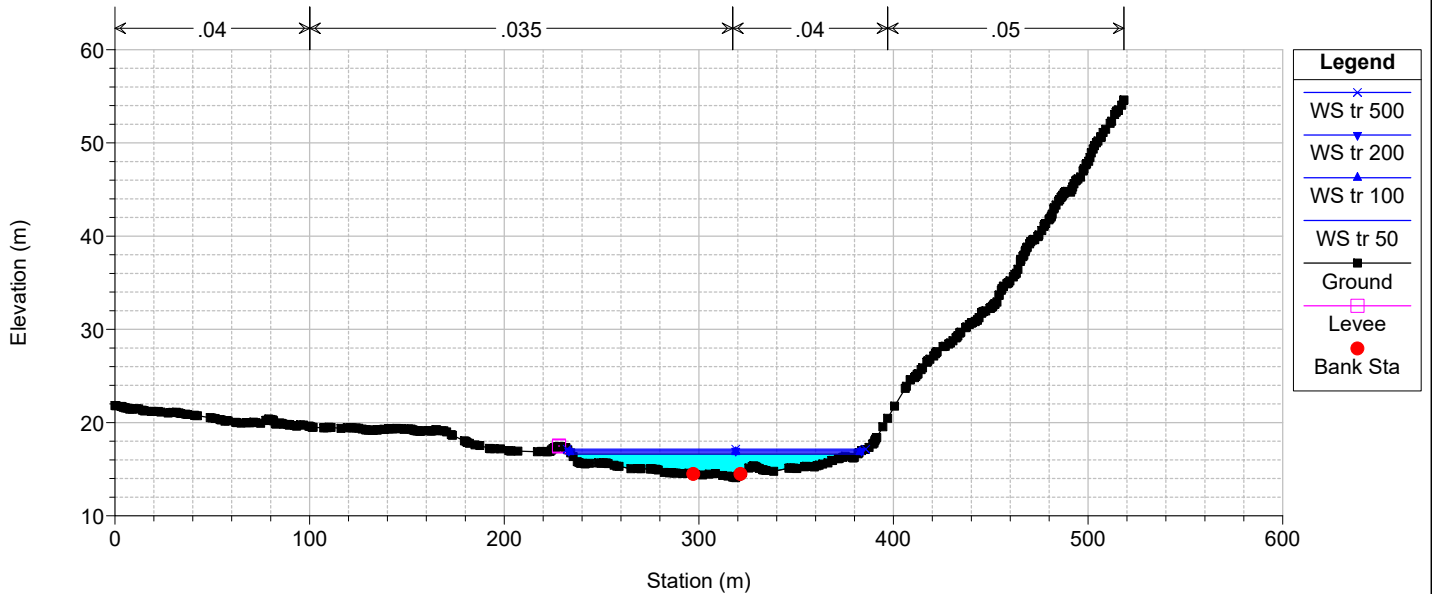
River = Fiume Santo Reach = Asta 3 RS = 4497.926 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

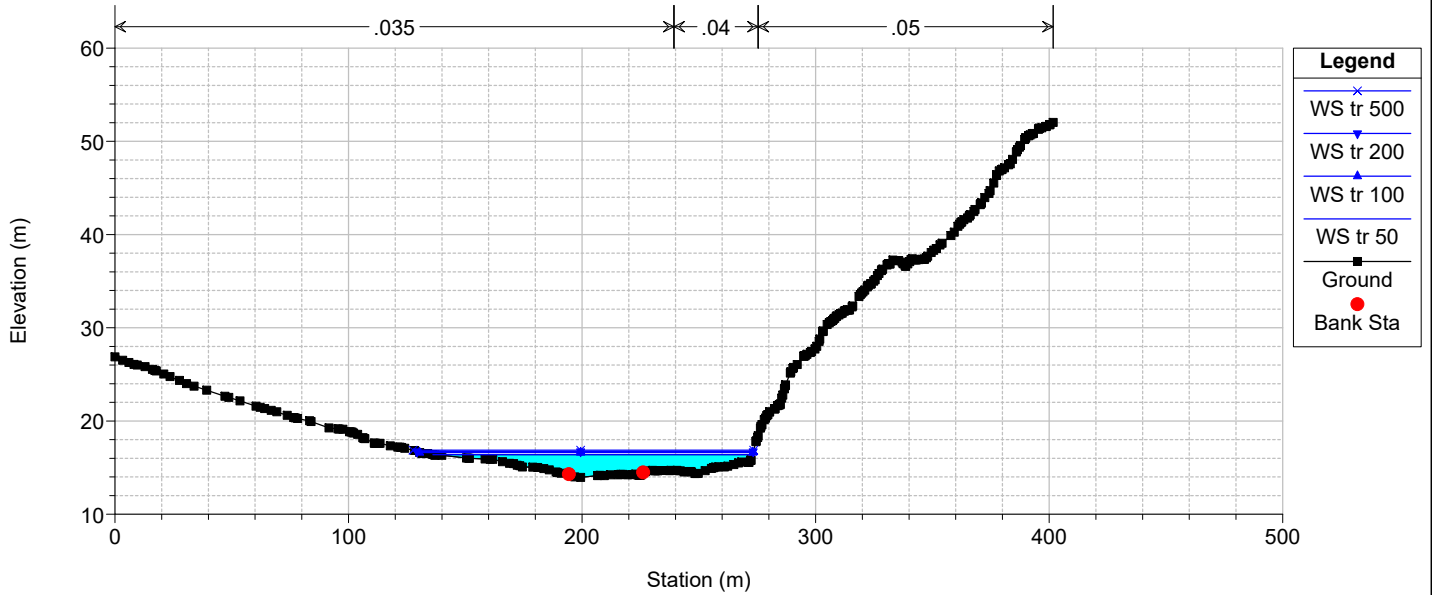
River = Fiume Santo Reach = Asta 3 RS = 4414.201 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

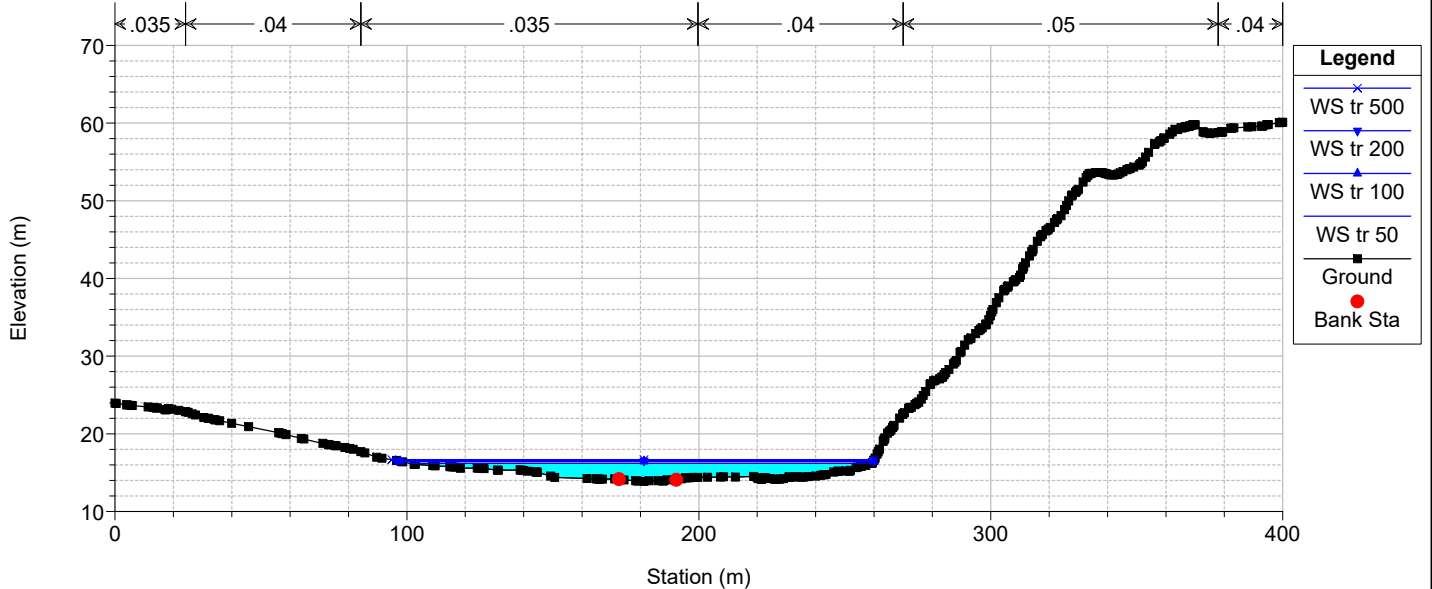
River = Fiume Santo Reach = Asta 3 RS = 4319.968 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

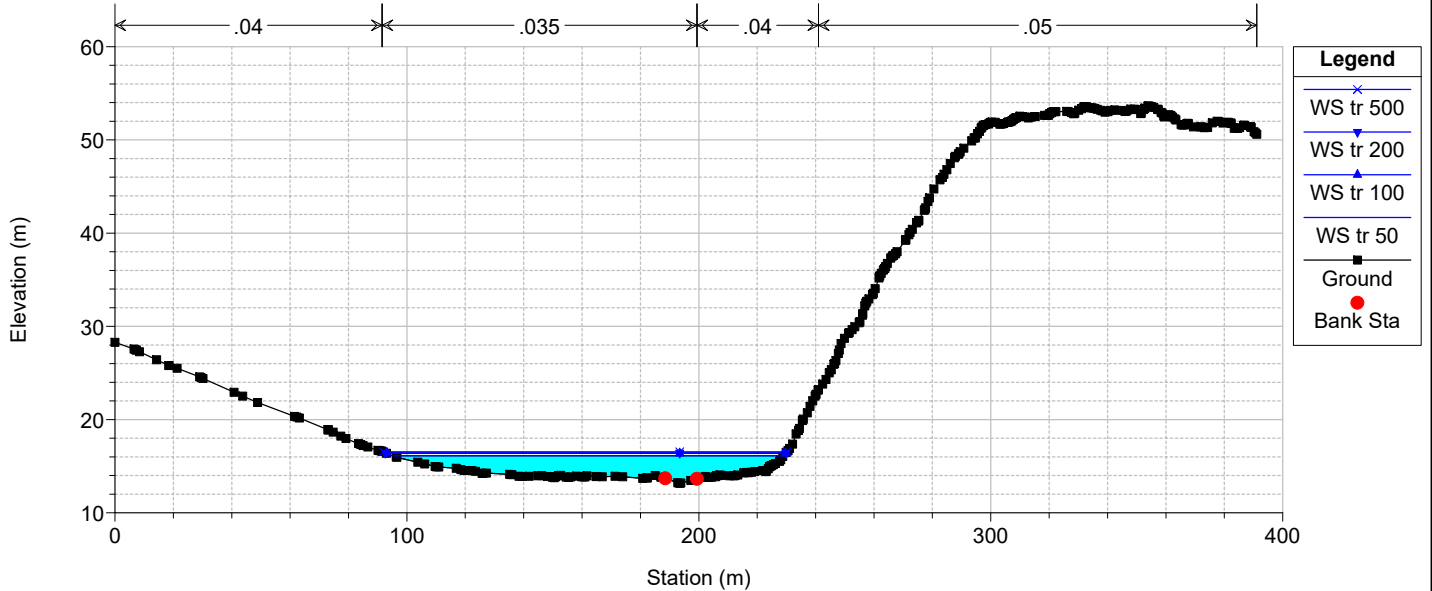
River = Fiume Santo Reach = Asta 3 RS = 4200 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

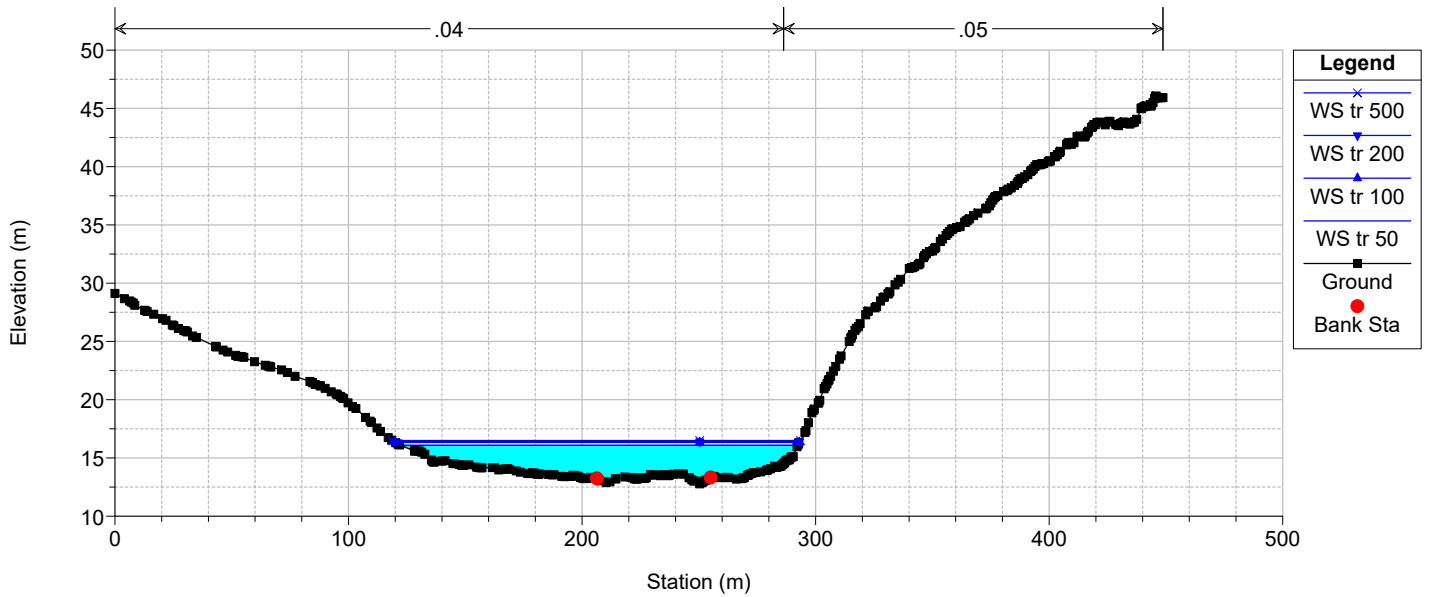
River = Fiume Santo Reach = Asta 3 RS = 4110.144 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

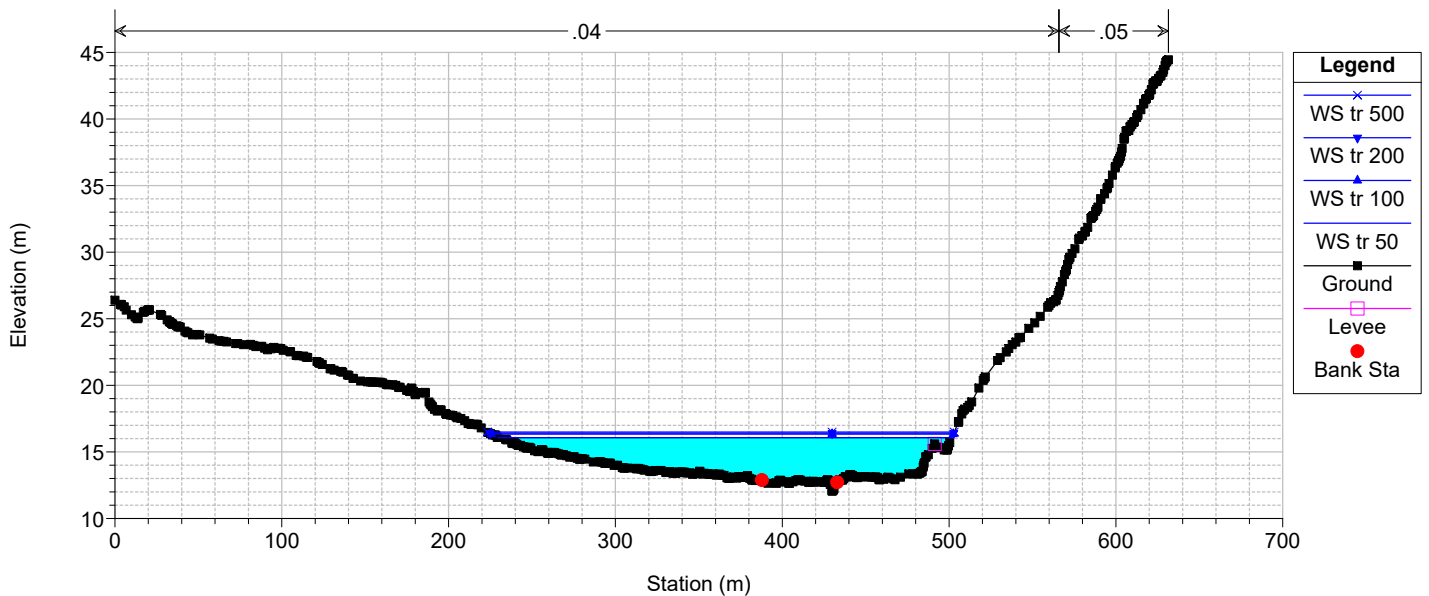
River = Fiume Santo Reach = Asta 3 RS = 3998.989 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

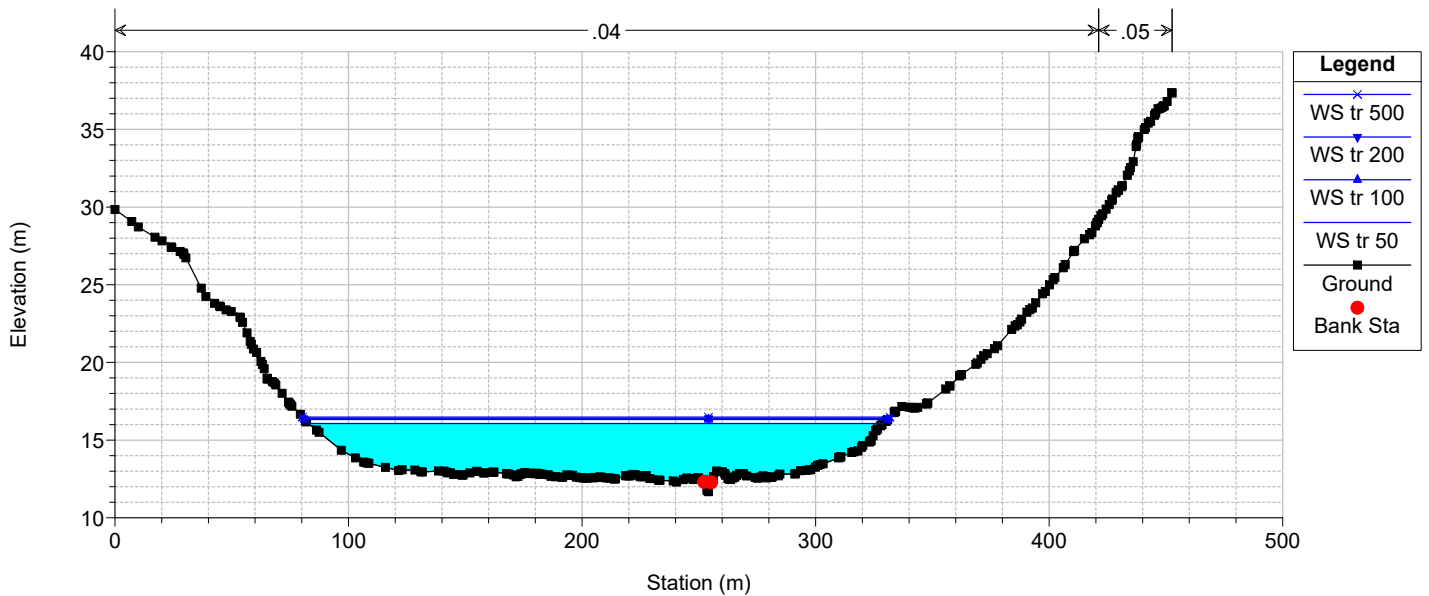
River = Fiume Santo Reach = Asta 3 RS = 3870.196 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

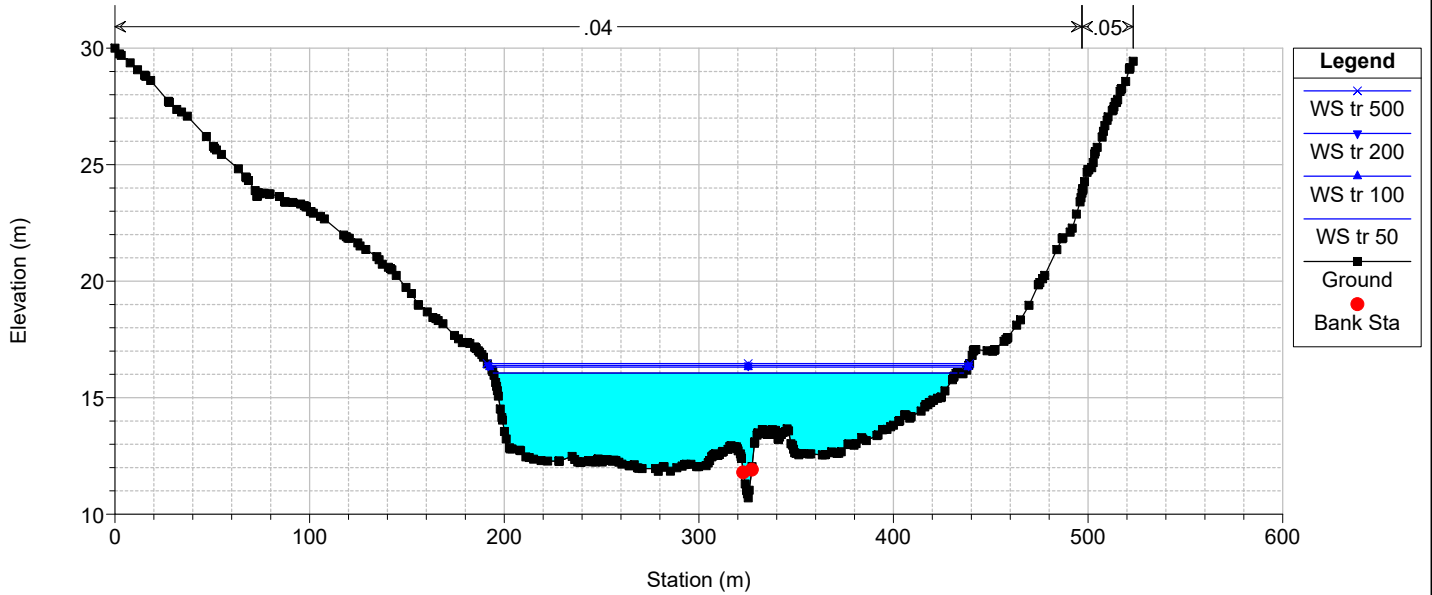
River = Fiume Santo Reach = Asta 3 RS = 3792.732 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

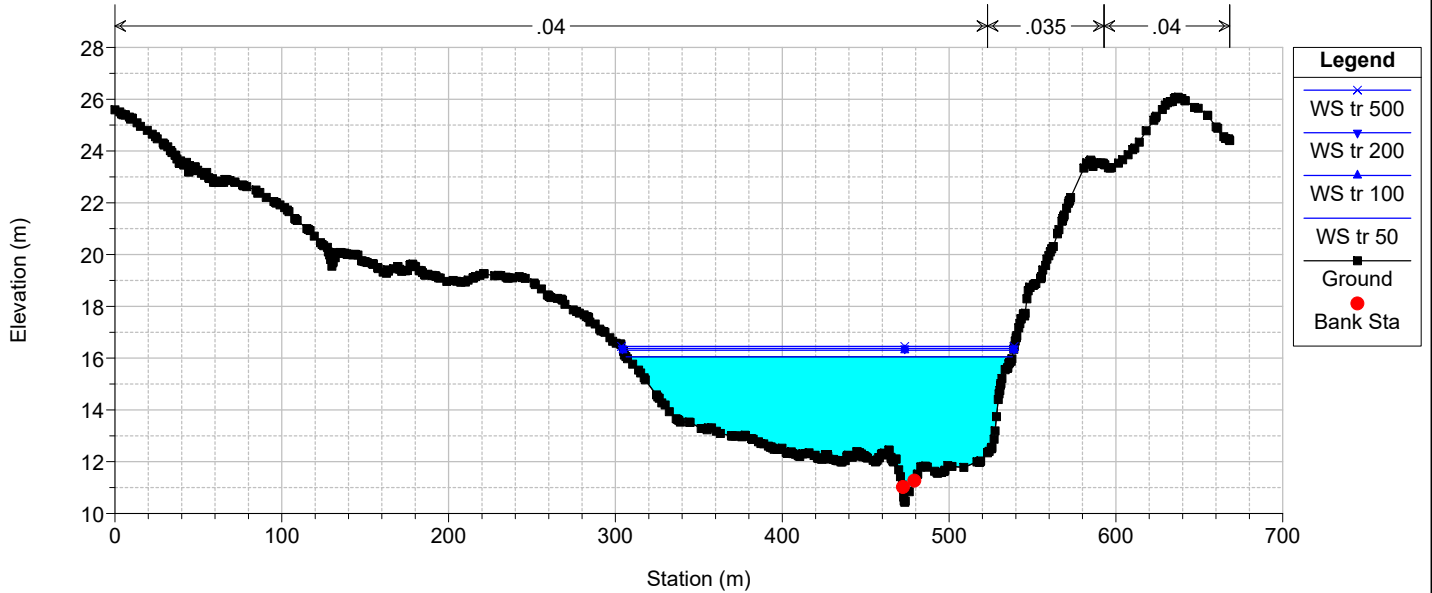
River = Fiume Santo Reach = Asta 3 RS = 3694.035 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

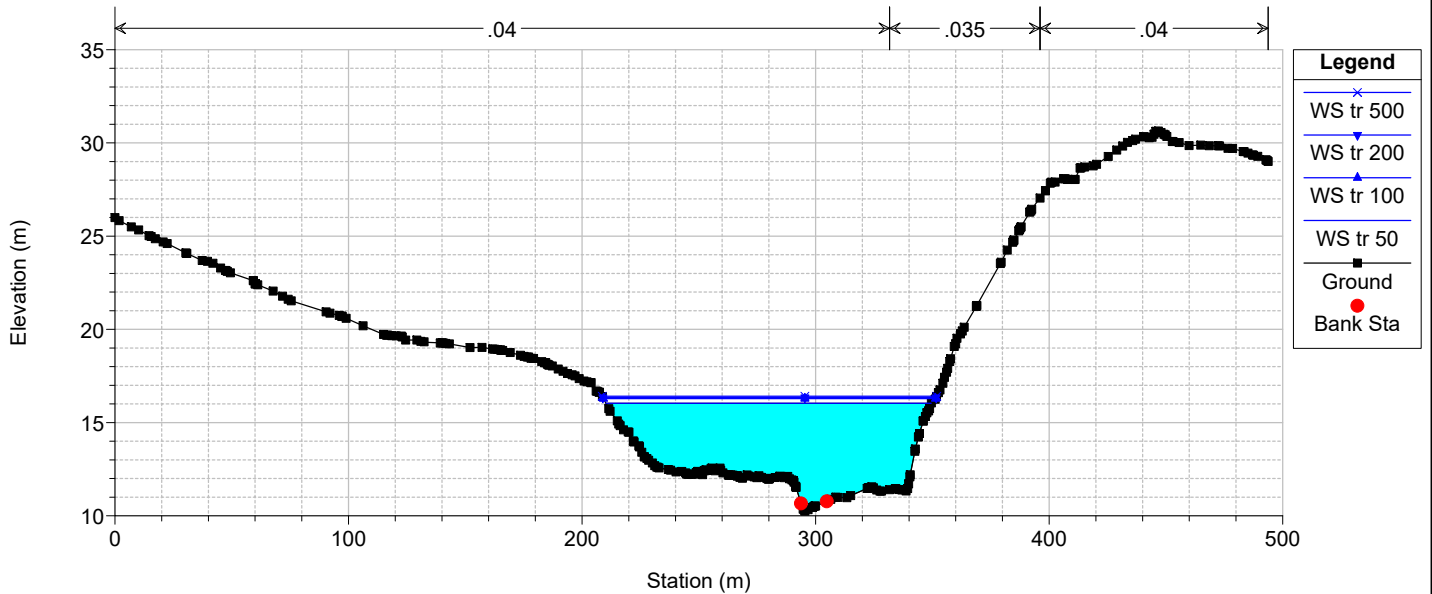
River = Fiume Santo Reach = Asta 3 RS = 3579.097 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

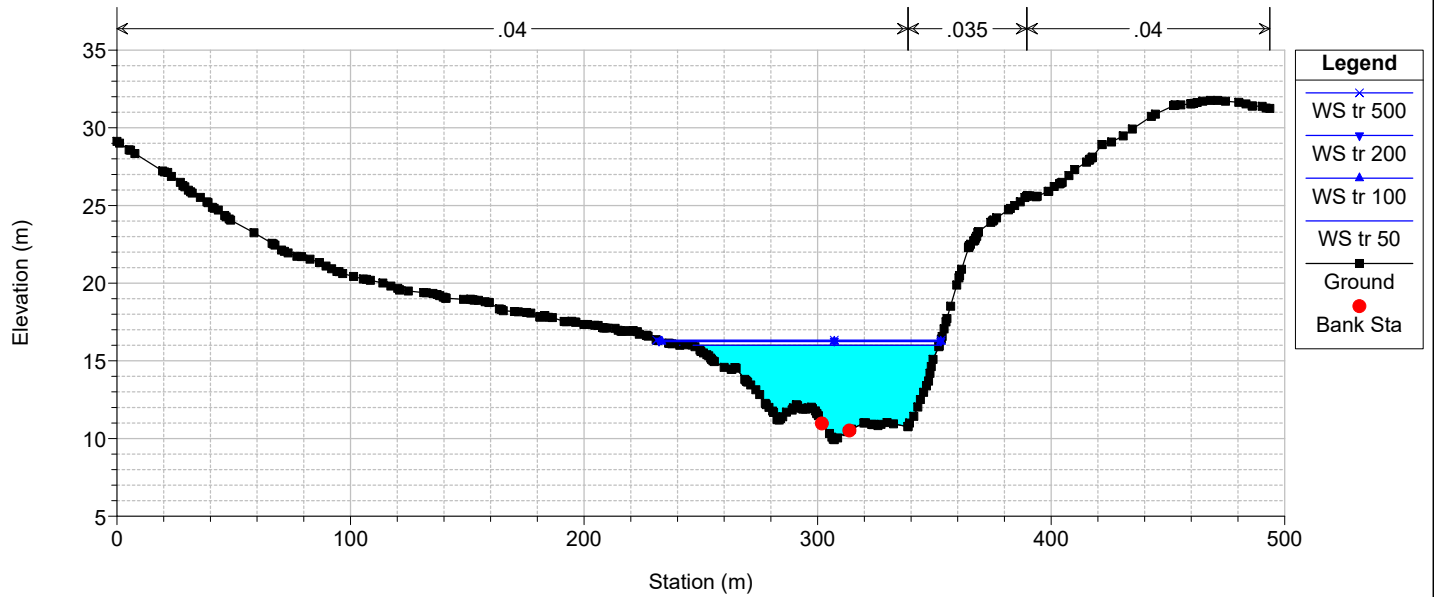
River = Fiume Santo Reach = Asta 3 RS = 3500.036 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

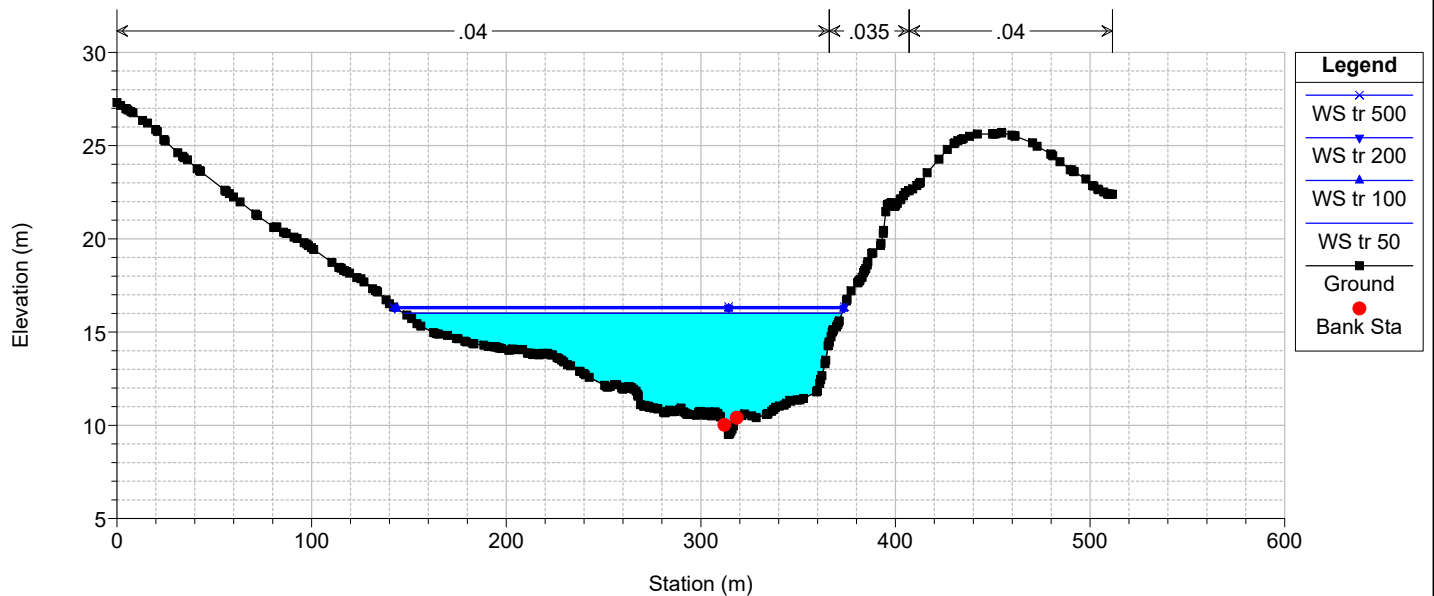
River = Fiume Santo Reach = Asta 3 RS = 3440.525 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

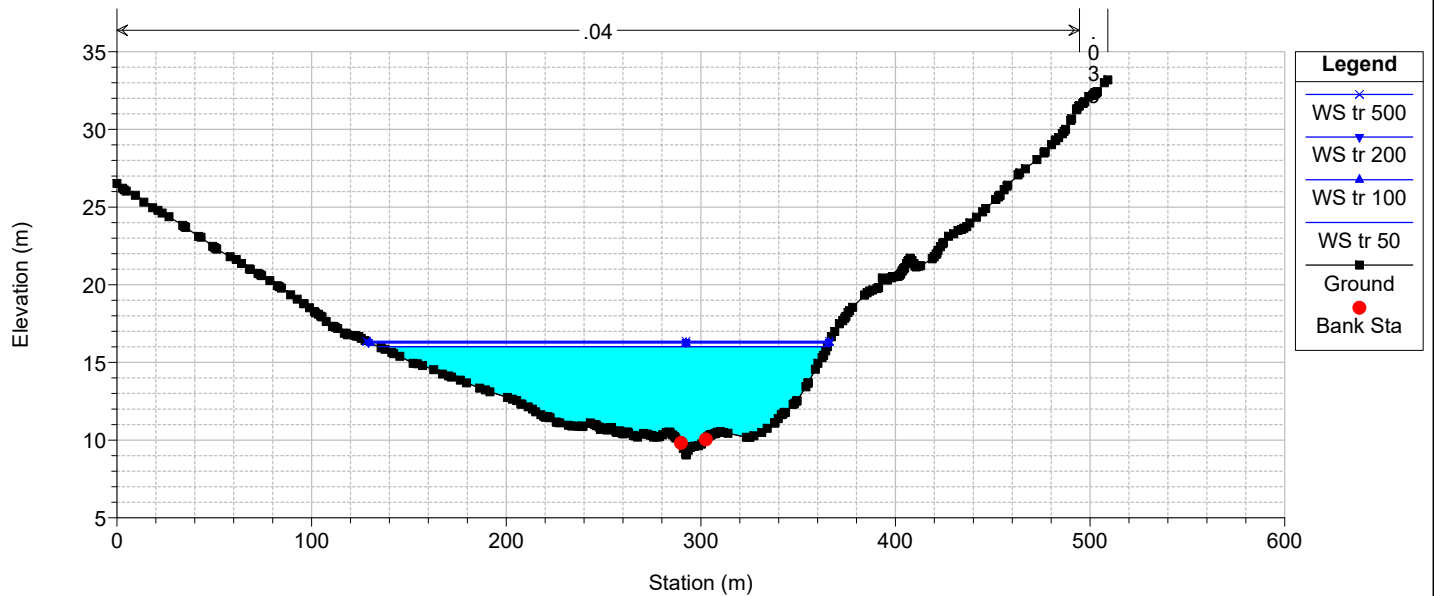
River = Fiume Santo Reach = Asta 3 RS = 3302.533 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

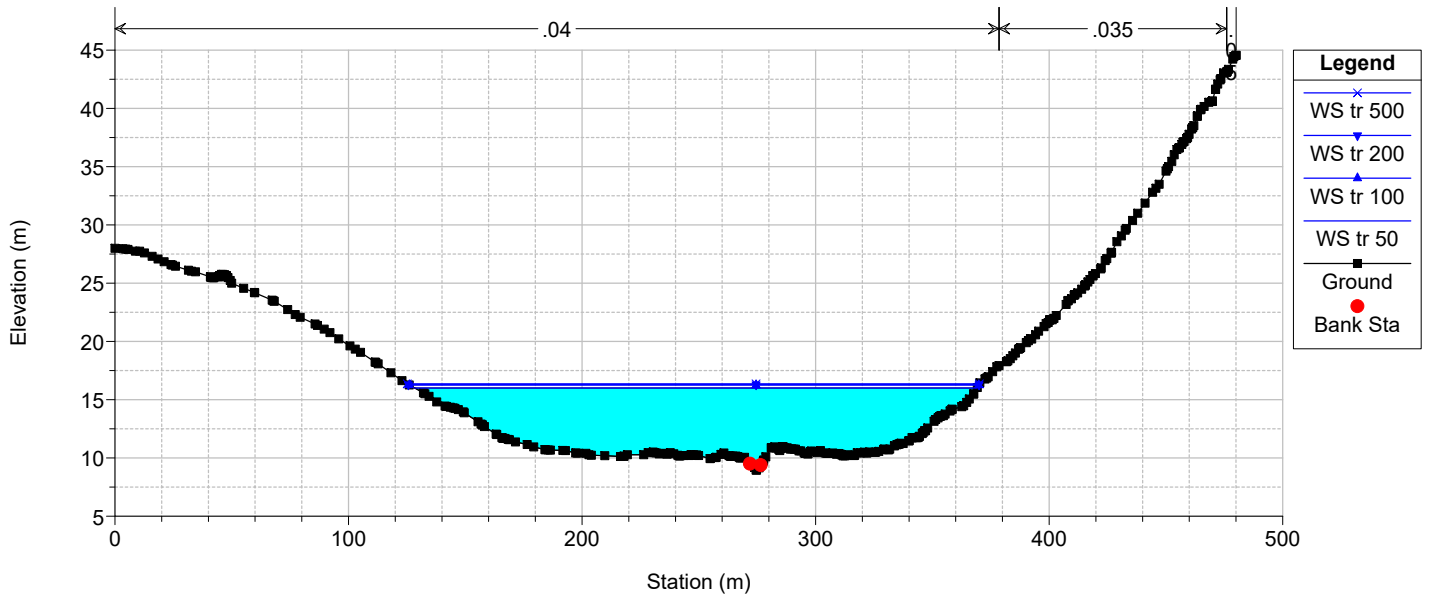
River = Fiume Santo Reach = Asta 3 RS = 3194.761 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

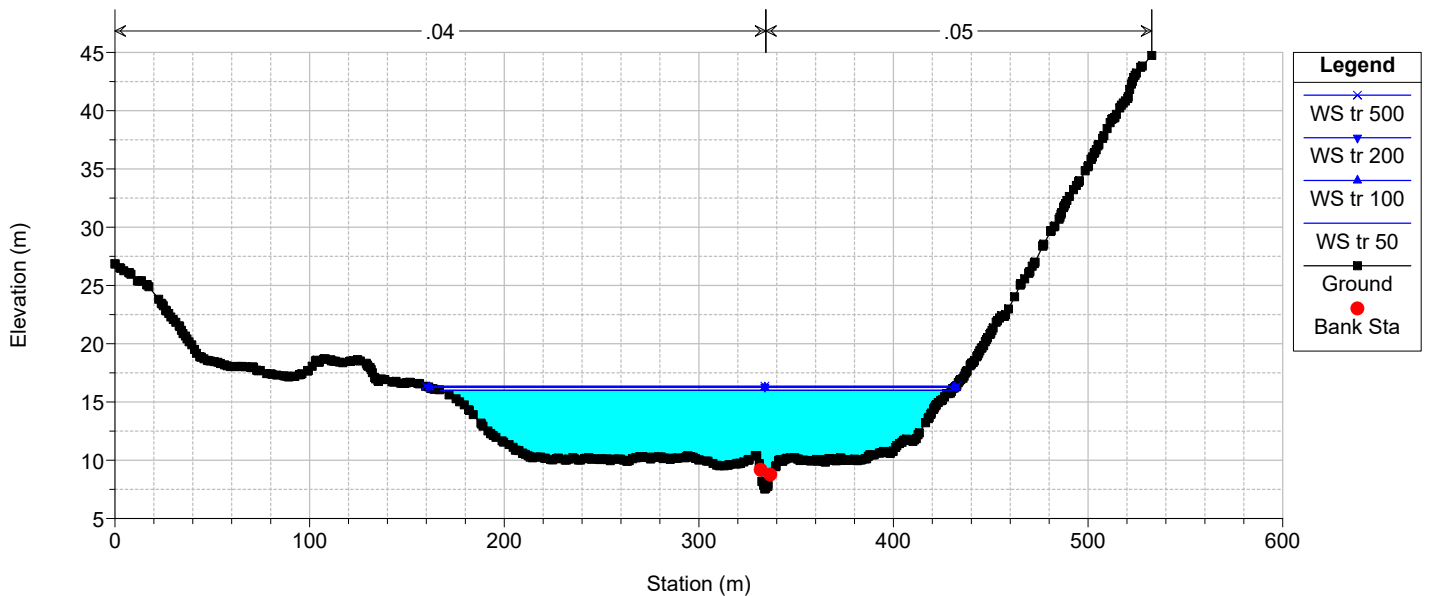
River = Fiume Santo Reach = Asta 3 RS = 3078.327 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

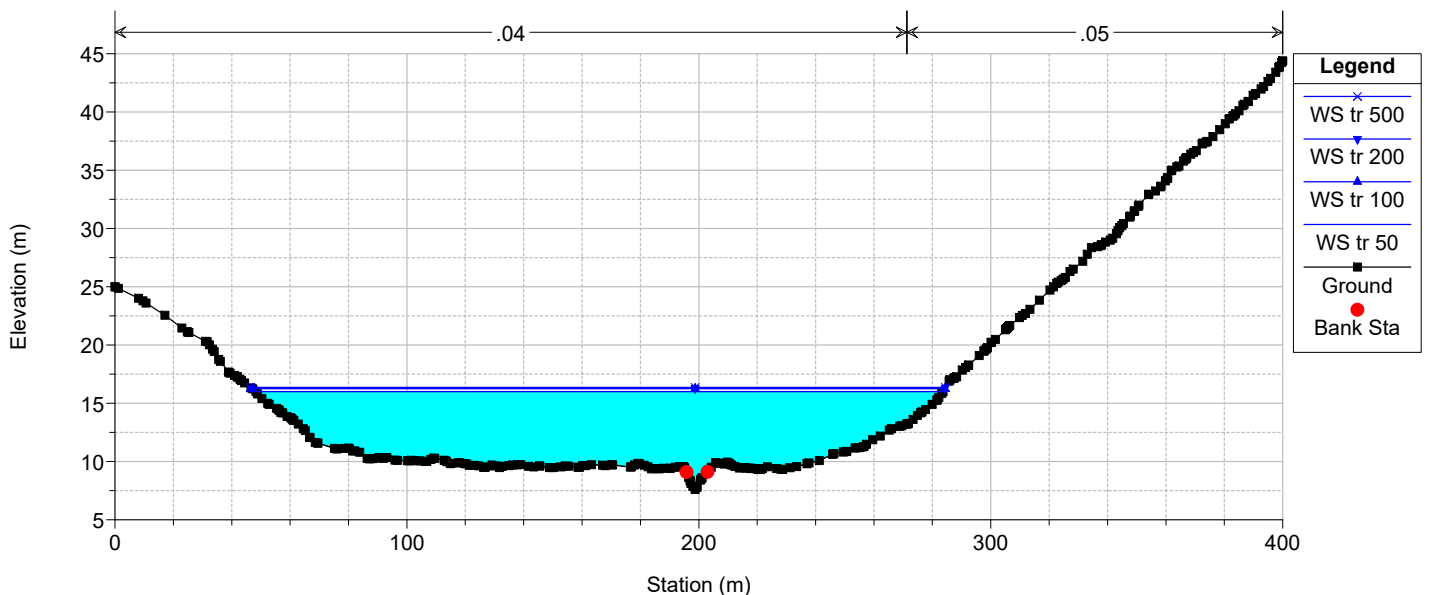
River = Fiume Santo Reach = Asta 3 RS = 3007.292 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

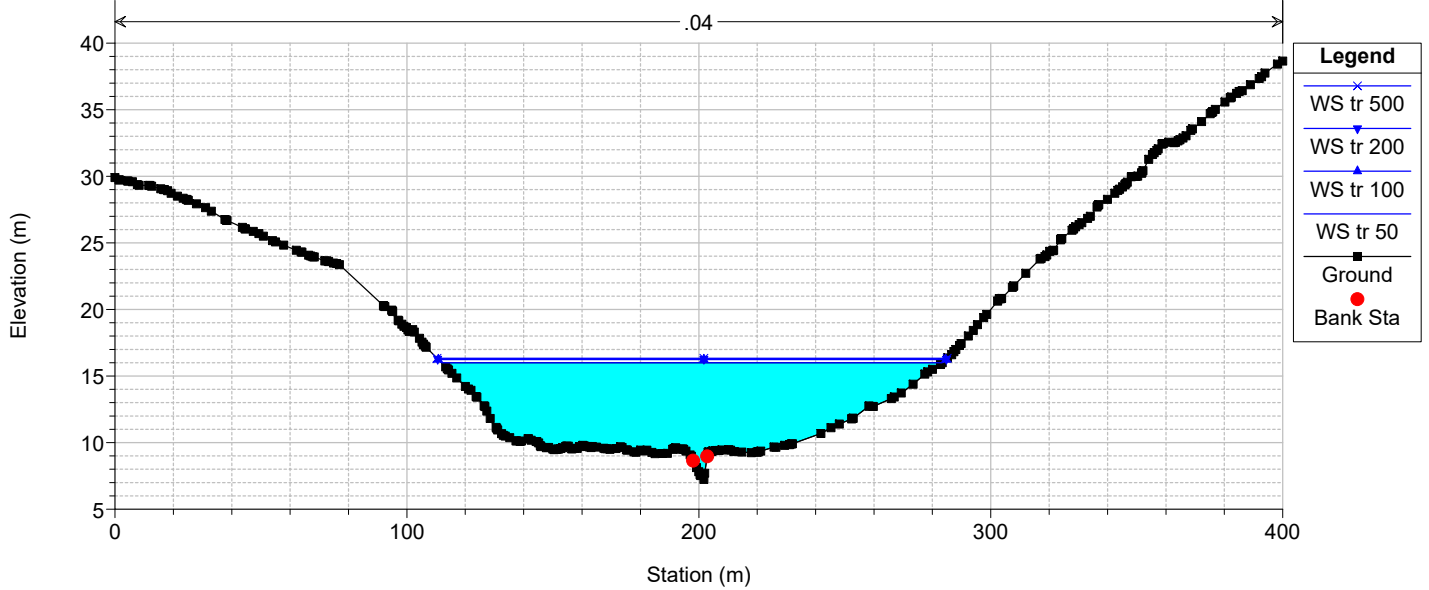
River = Fiume Santo Reach = Asta 3 RS = 2900 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

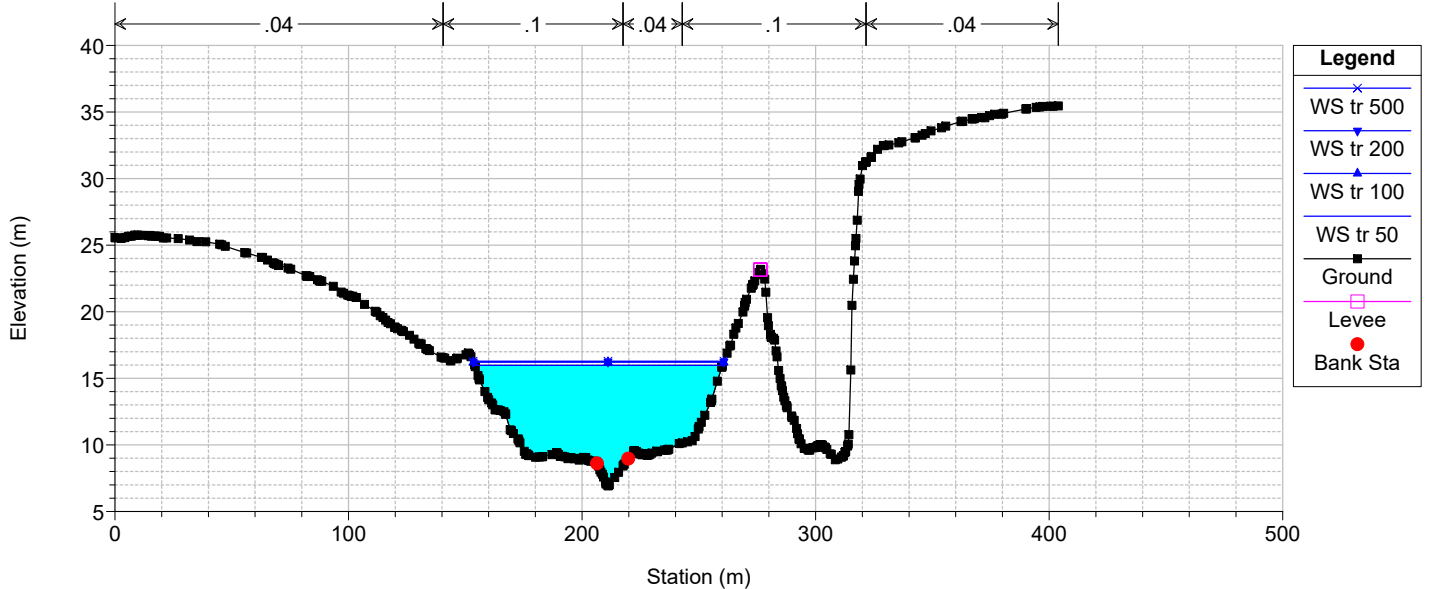
River = Fiume Santo Reach = Asta 3 RS = 2800 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

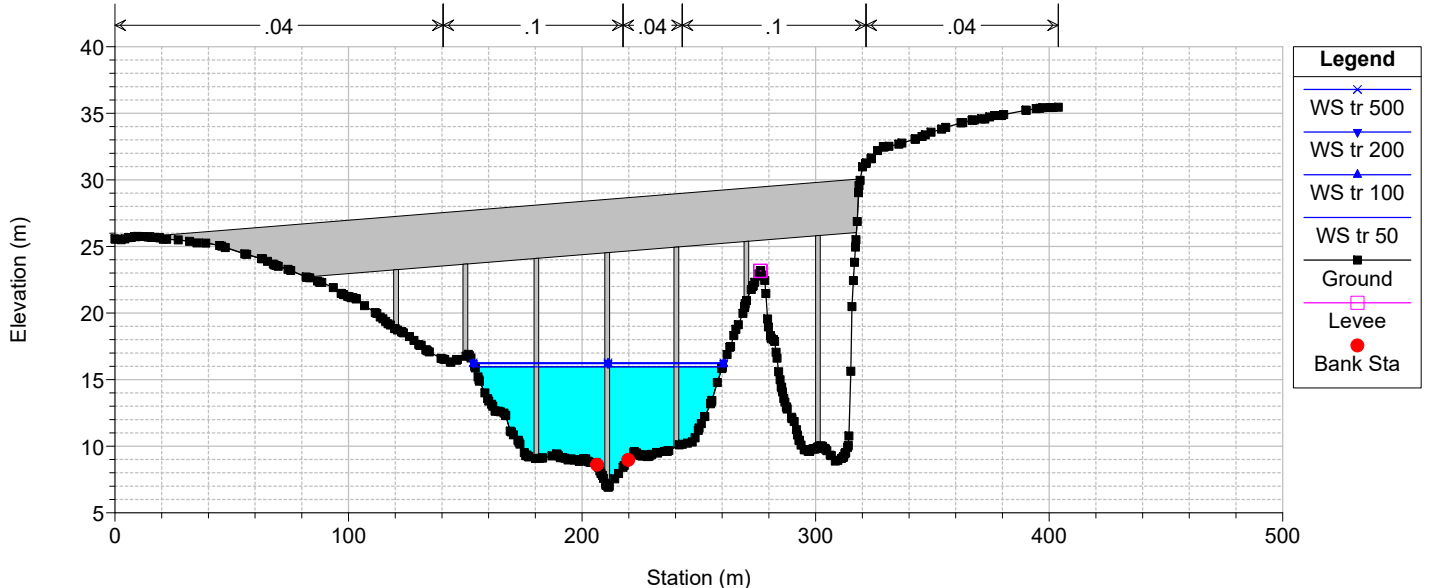
River = Fiume Santo Reach = Asta 3 RS = 2679.119 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

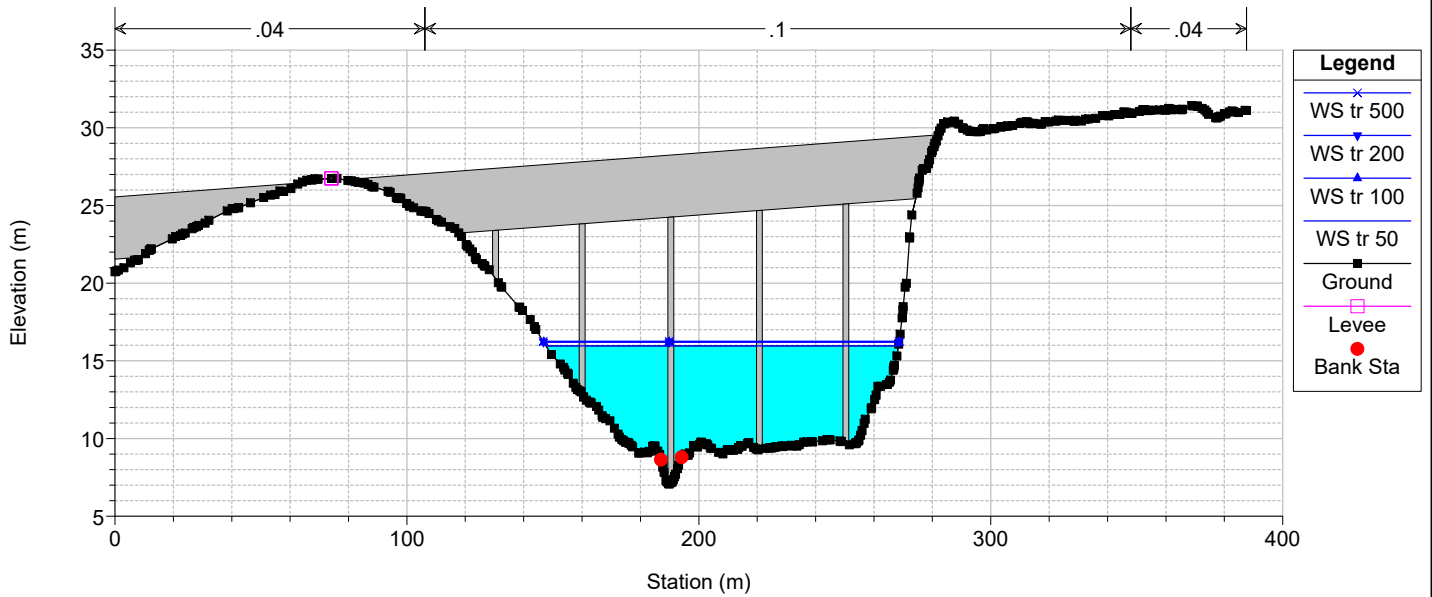
River = Fiume Santo Reach = Asta 3 RS = 2634.924 BR B11 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

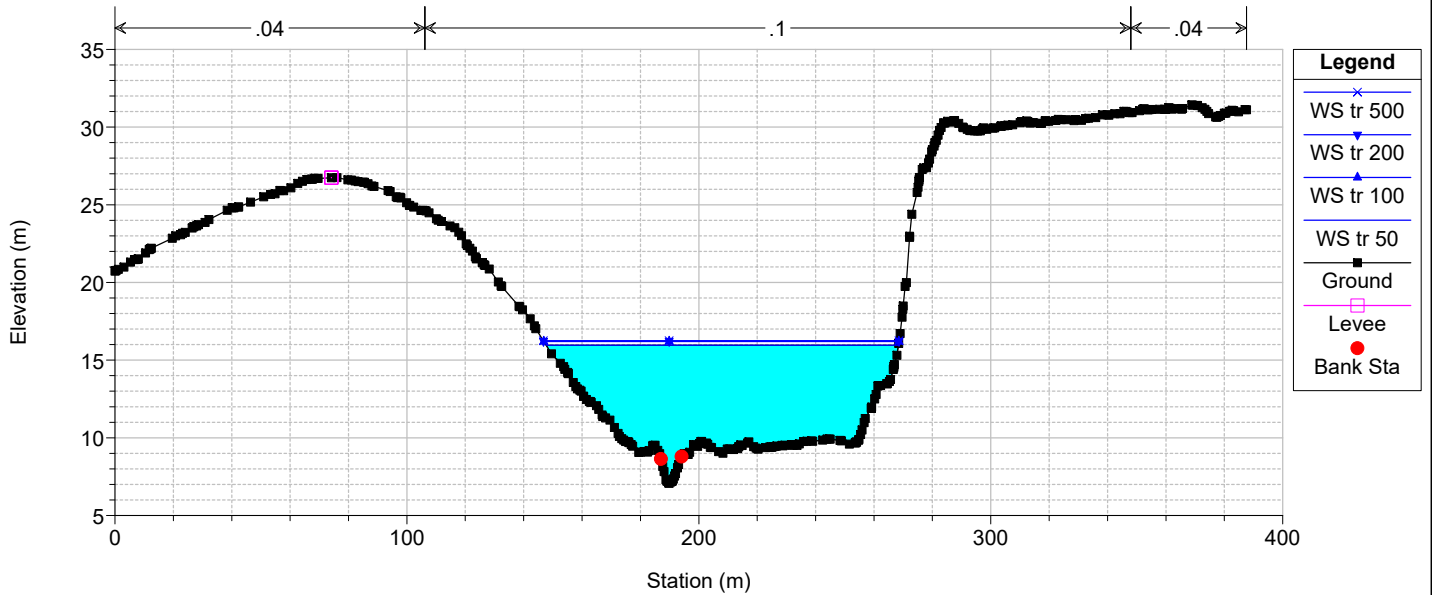
River = Fiume Santo Reach = Asta 3 RS = 2634.924 BR B11 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

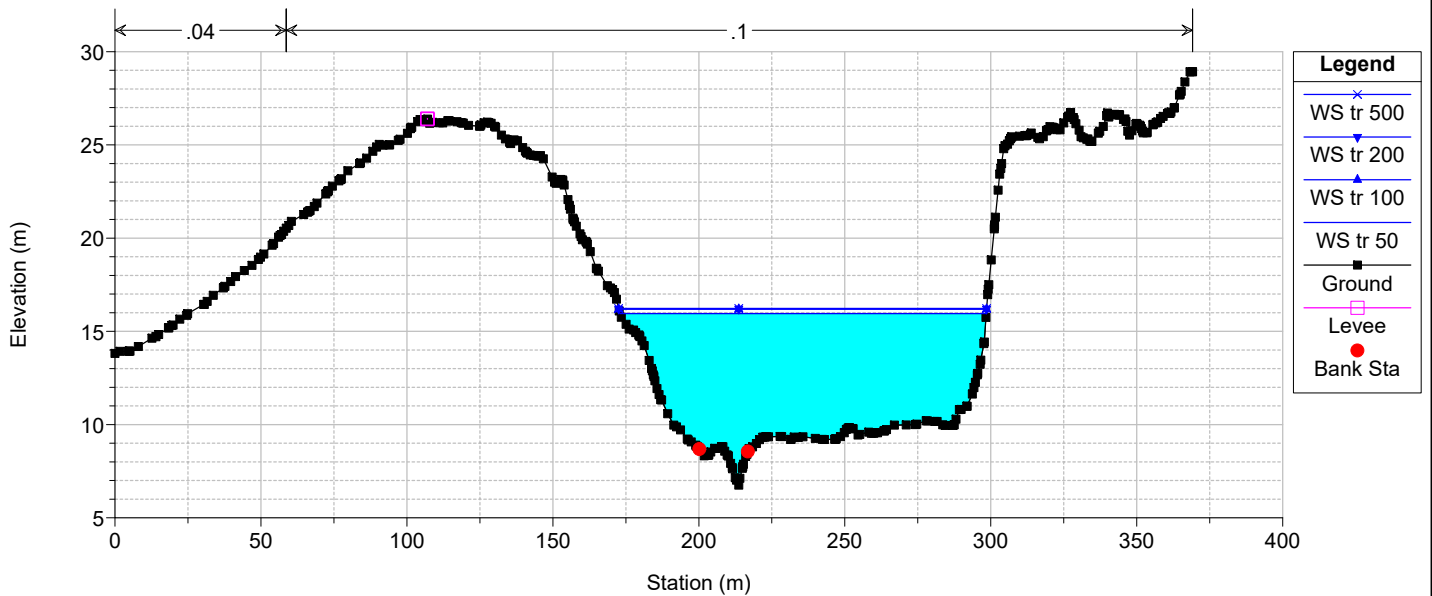
River = Fiume Santo Reach = Asta 3 RS = 2605.382 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

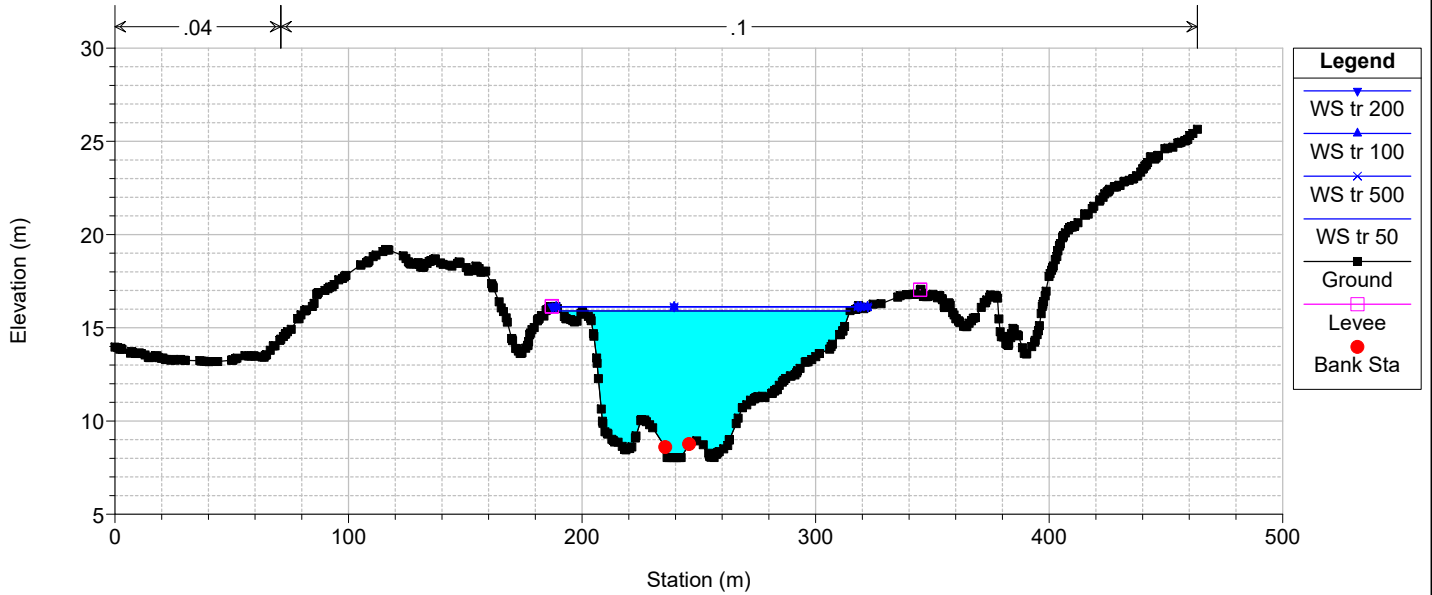
River = Fiume Santo Reach = Asta 3 RS = 2559.463 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

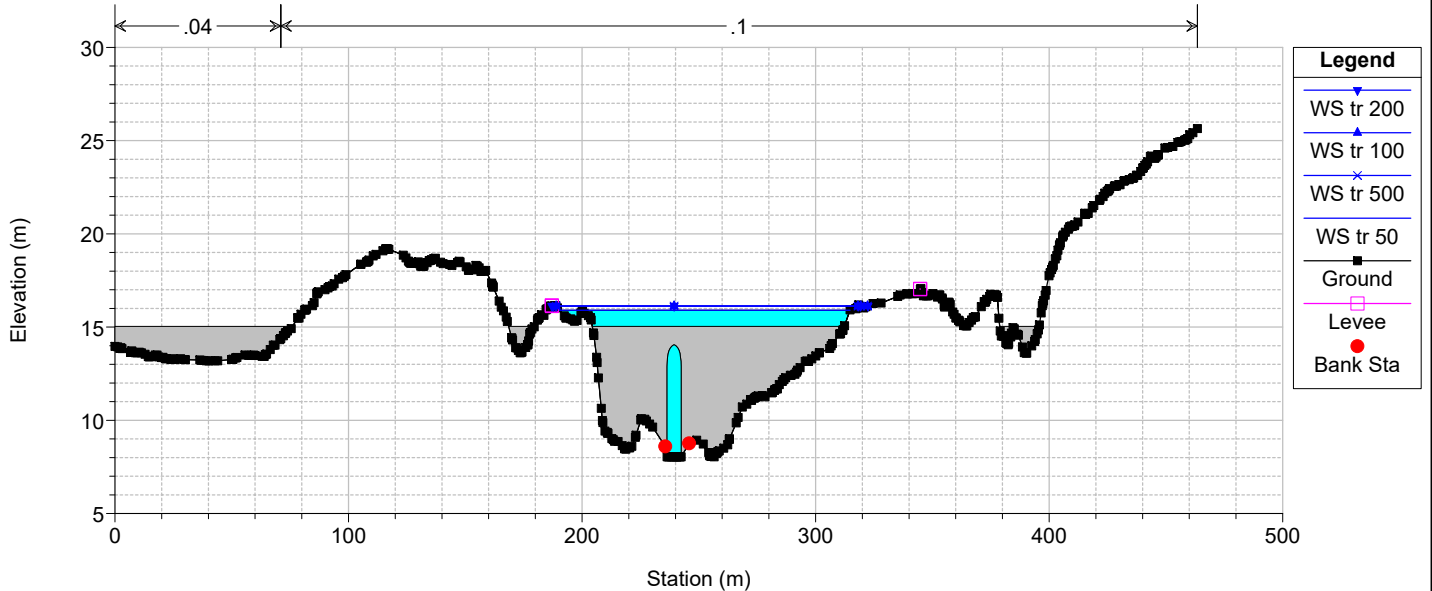
River = Fiume Santo Reach = Asta 3 RS = 2428.544 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

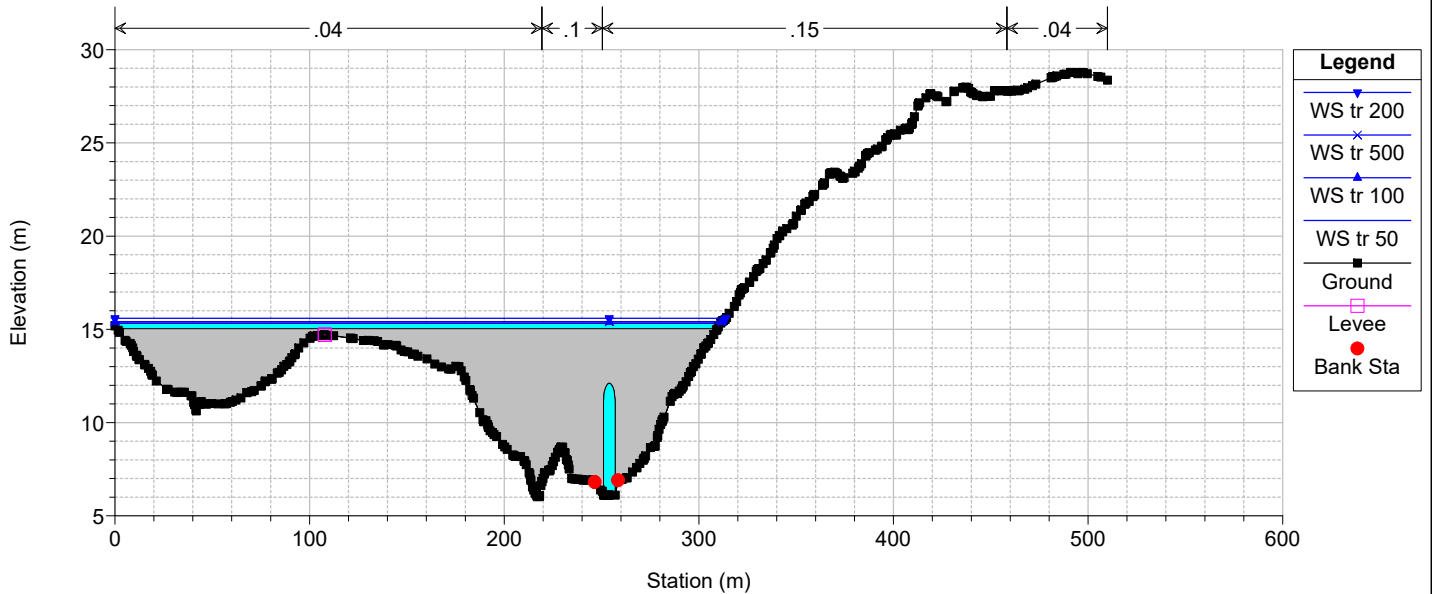
River = Fiume Santo Reach = Asta 3 RS = 2394.43 Culv C61 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

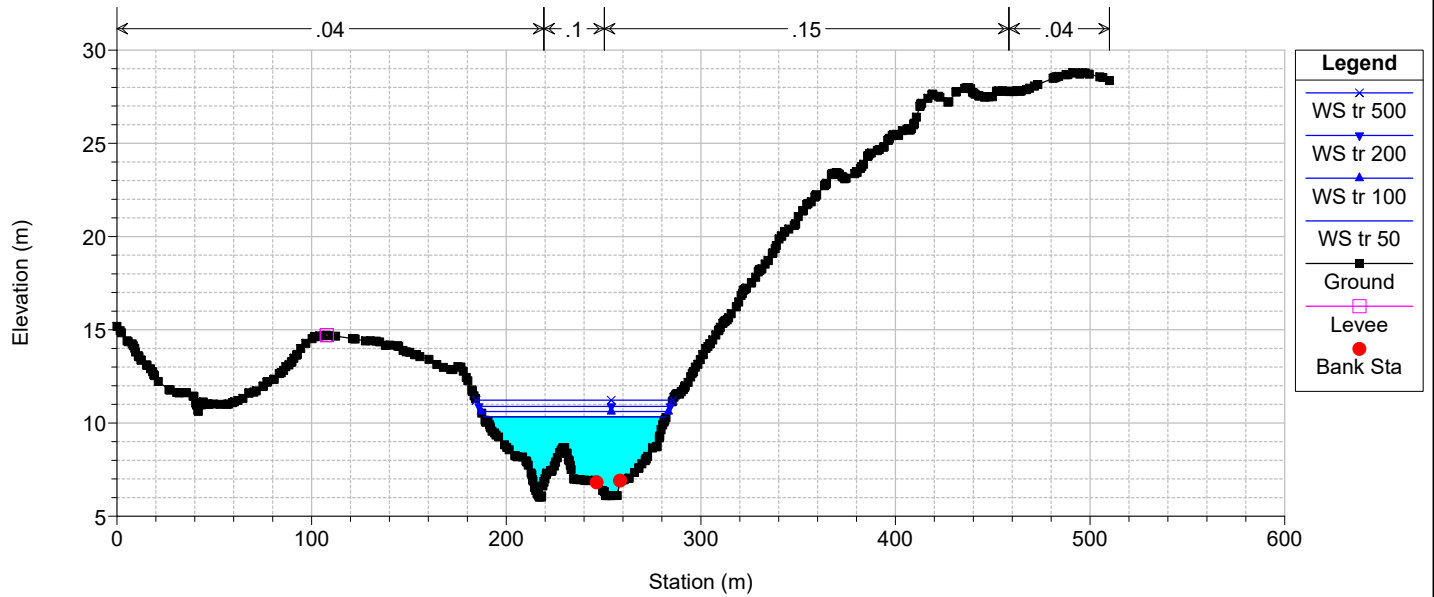
River = Fiume Santo Reach = Asta 3 RS = 2394.43 Culv C61 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

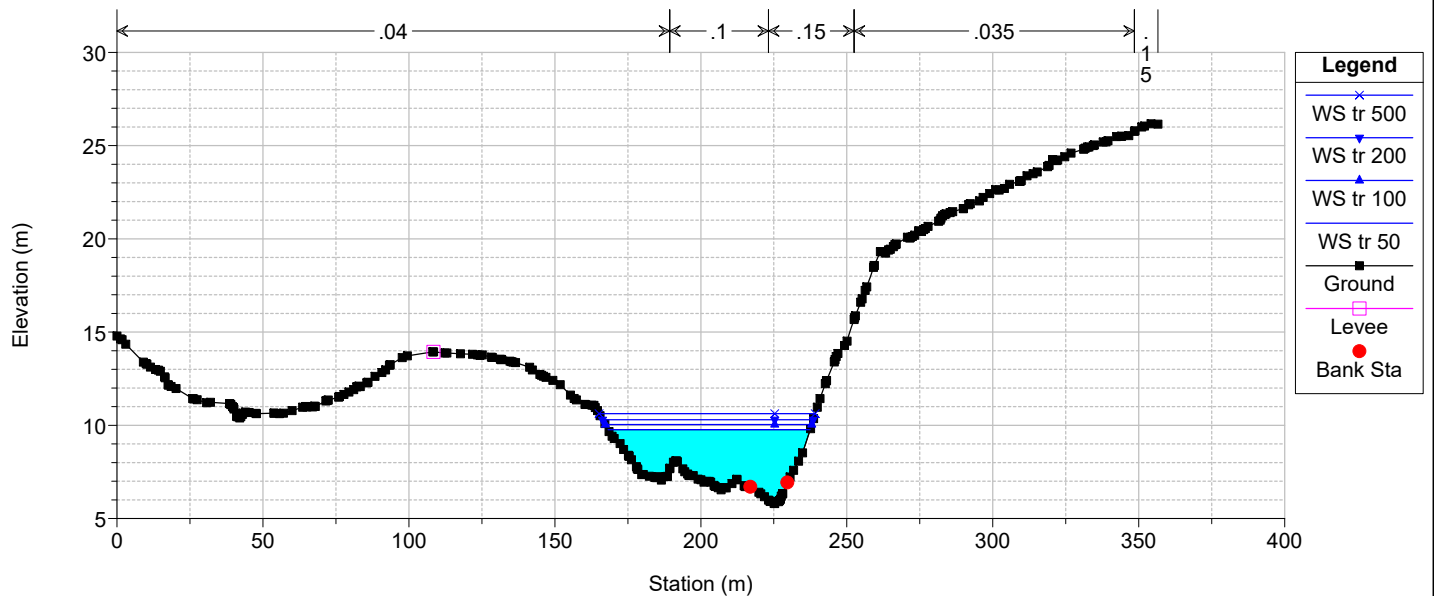
River = Fiume Santo Reach = Asta 3 RS = 2355.549 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

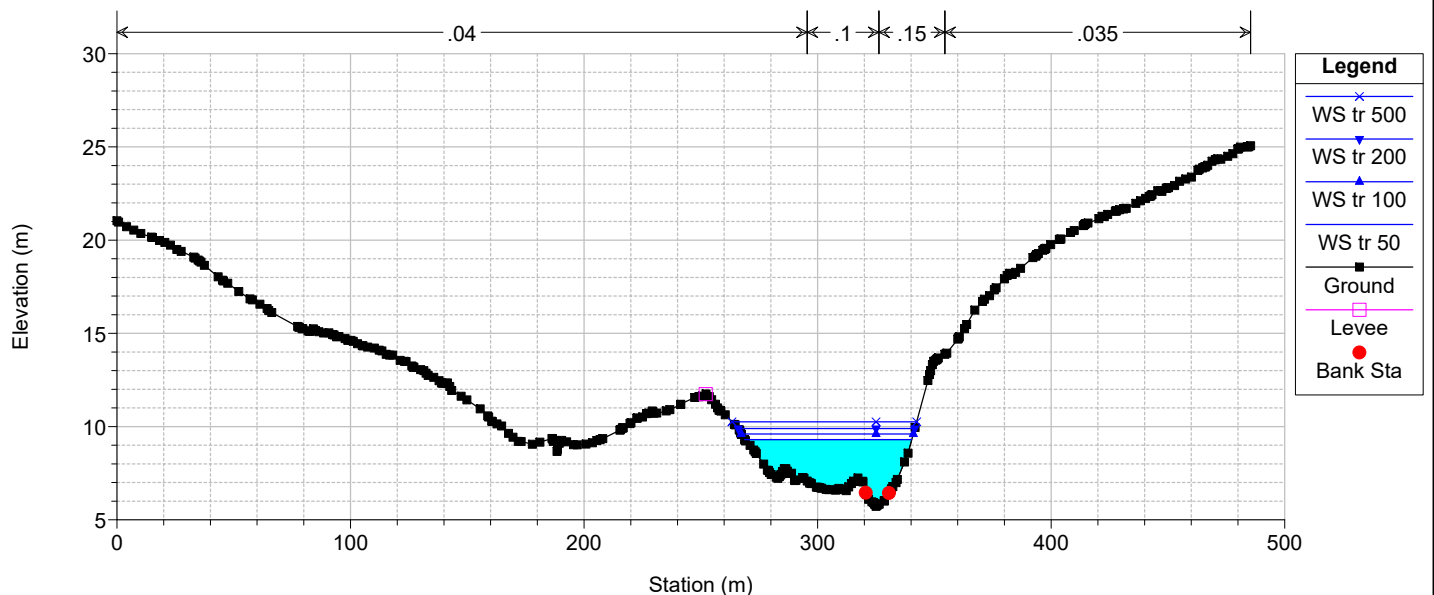
River = Fiume Santo Reach = Asta 3 RS = 2264.758 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

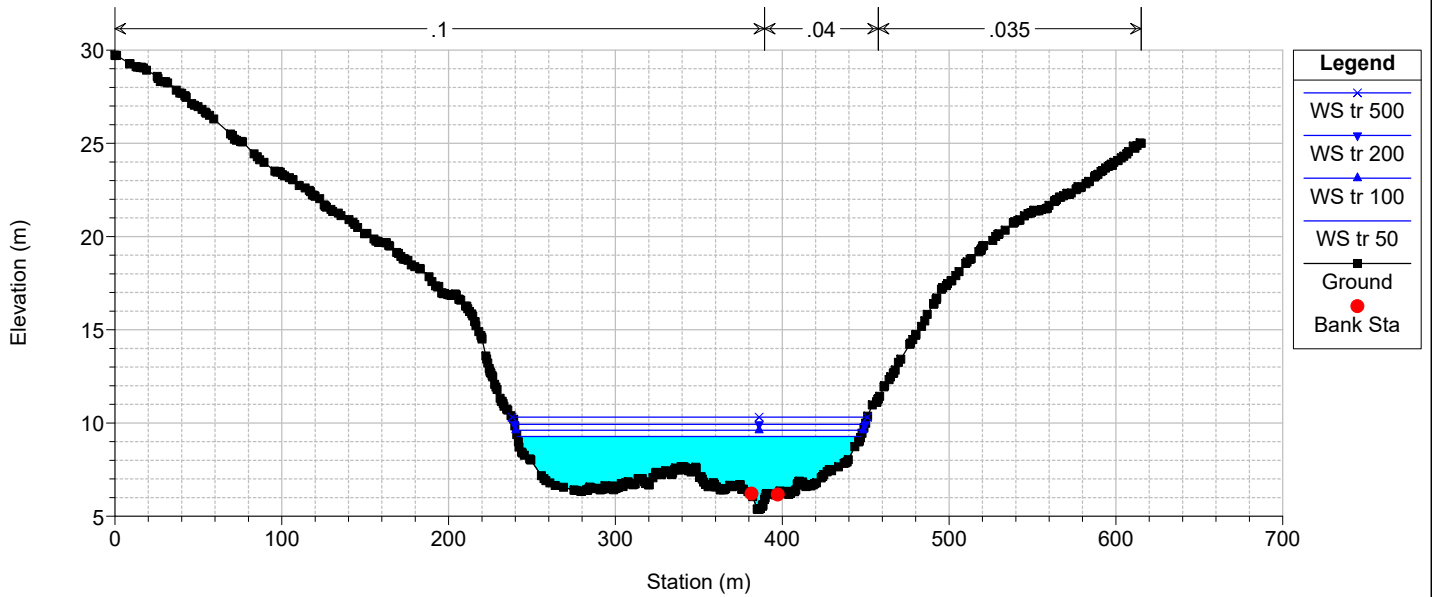
River = Fiume Santo Reach = Asta 3 RS = 2221.735 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

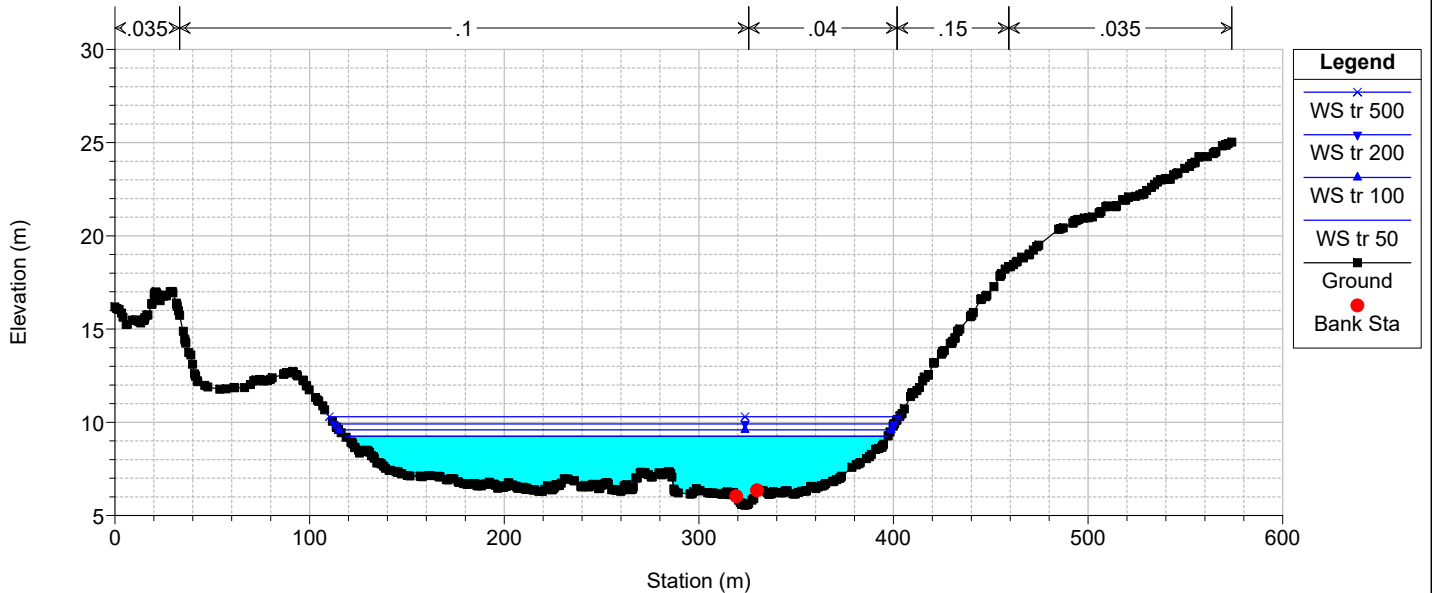
River = Fiume Santo Reach = Asta 3 RS = 2123.107 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

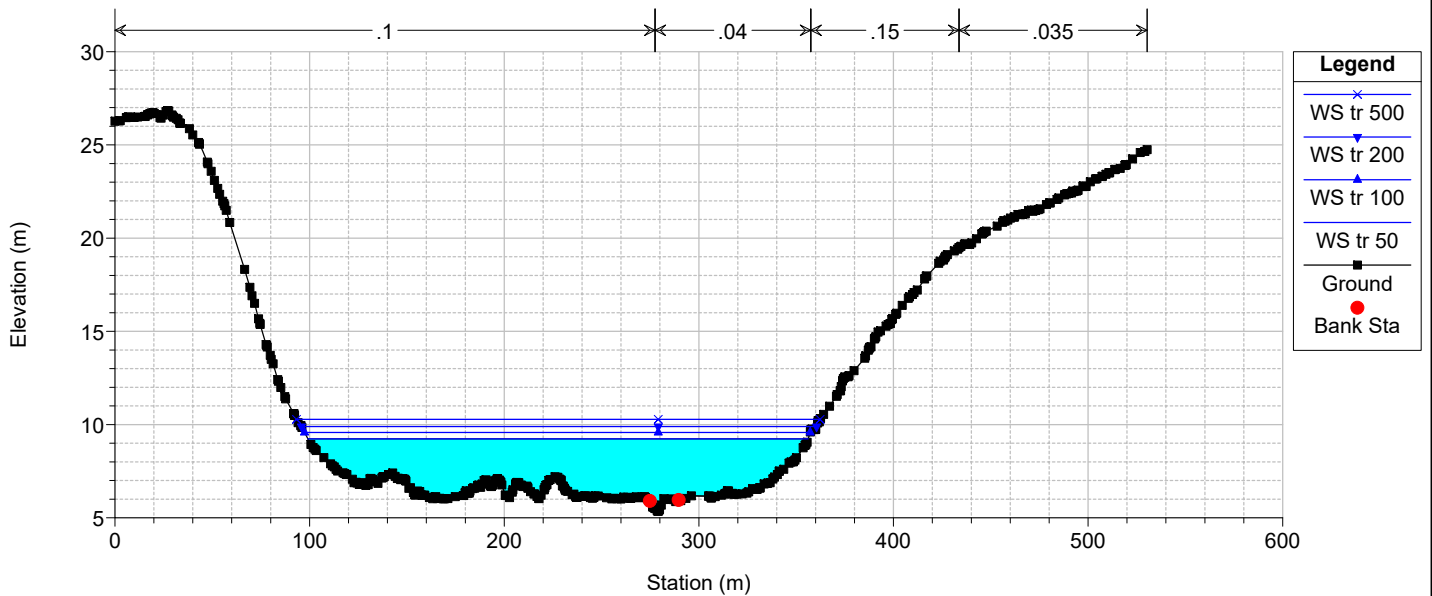
River = Fiume Santo Reach = Asta 3 RS = 2060.575 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

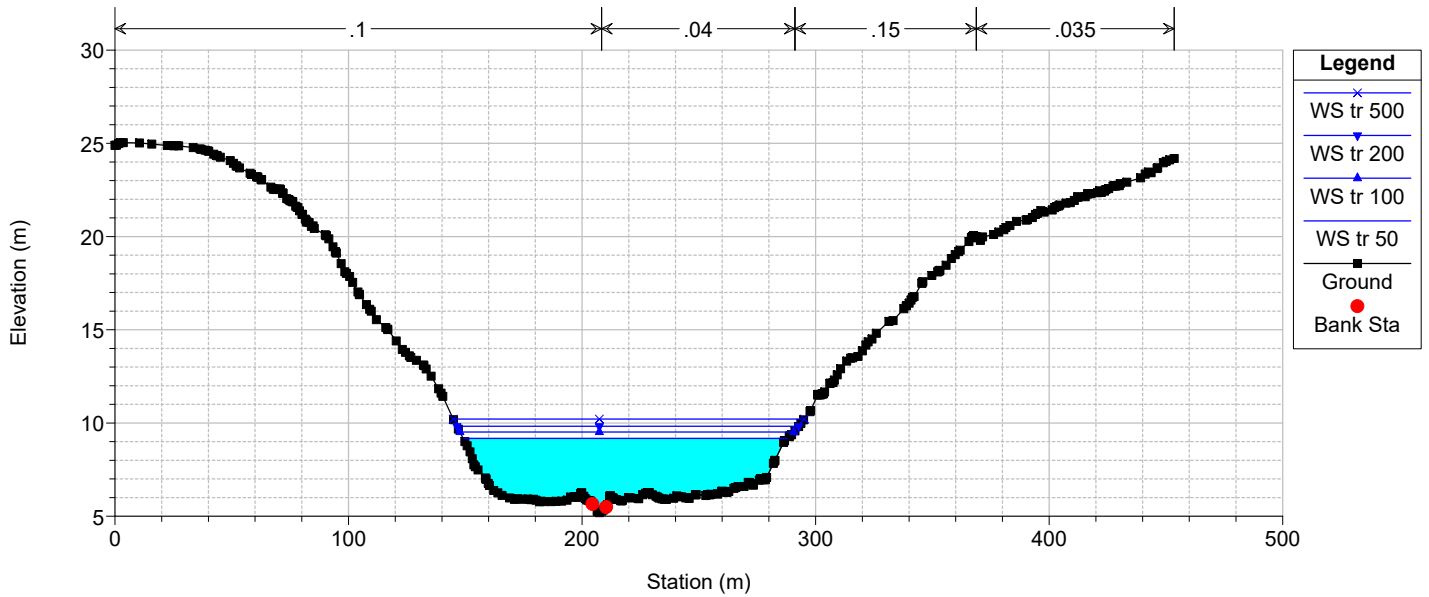
River = Fiume Santo Reach = Asta 3 RS = 2011.687 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

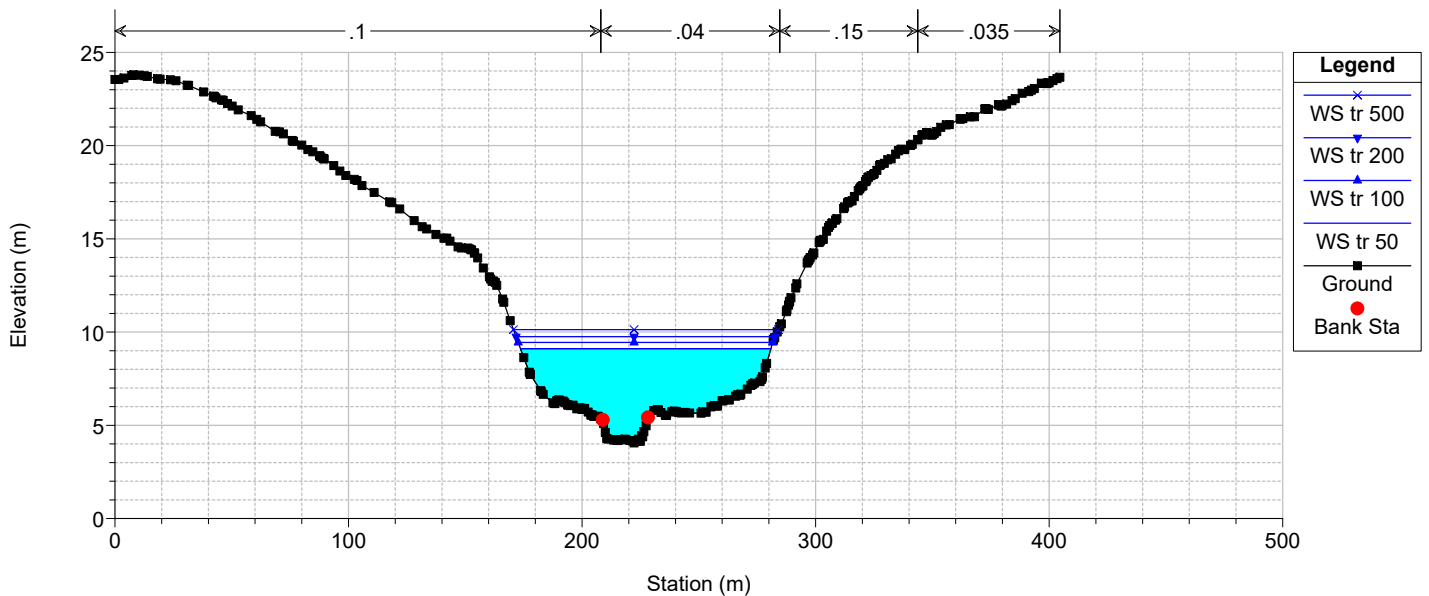
River = Fiume Santo Reach = Asta 3 RS = 1957.53 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

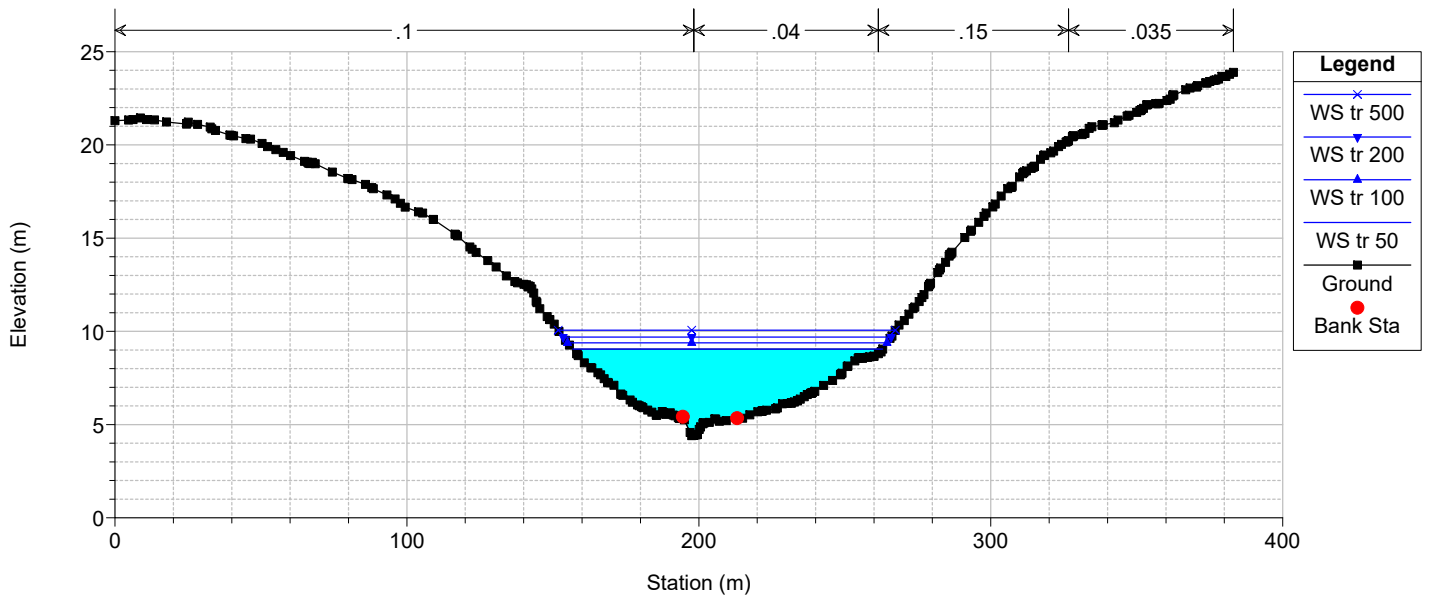
River = Fiume Santo Reach = Asta 3 RS = 1873.348 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

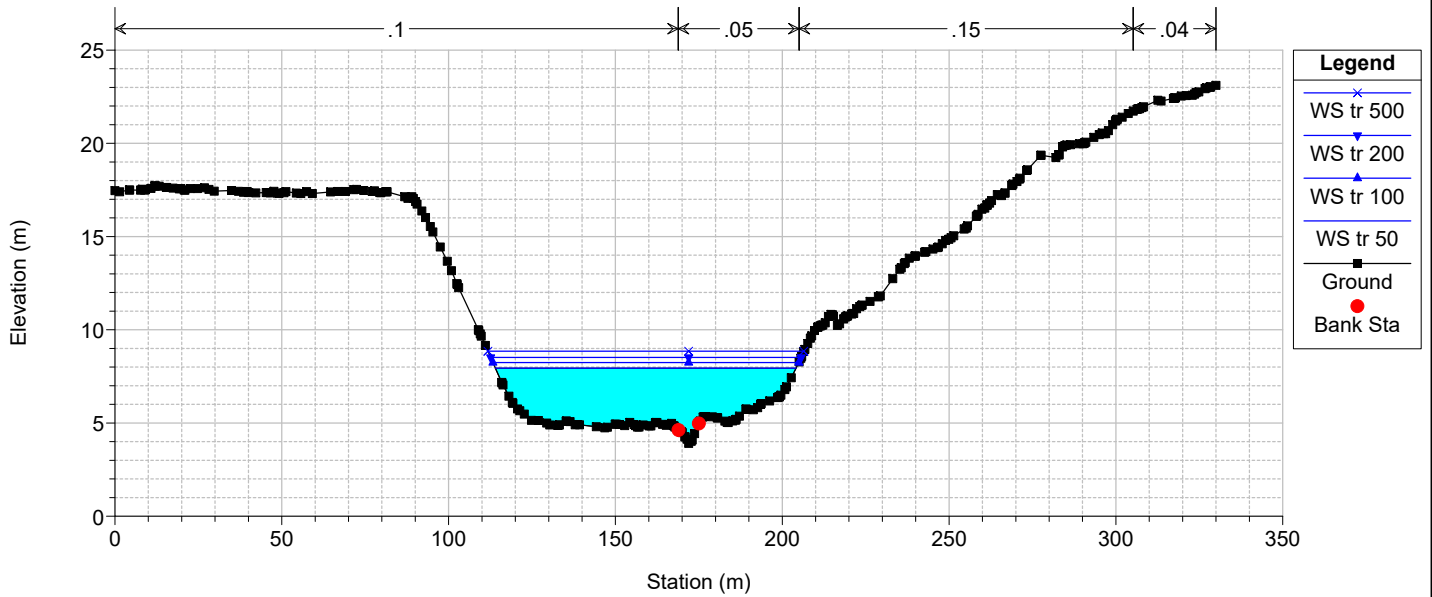
River = Fiume Santo Reach = Asta 3 RS = 1839.501 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

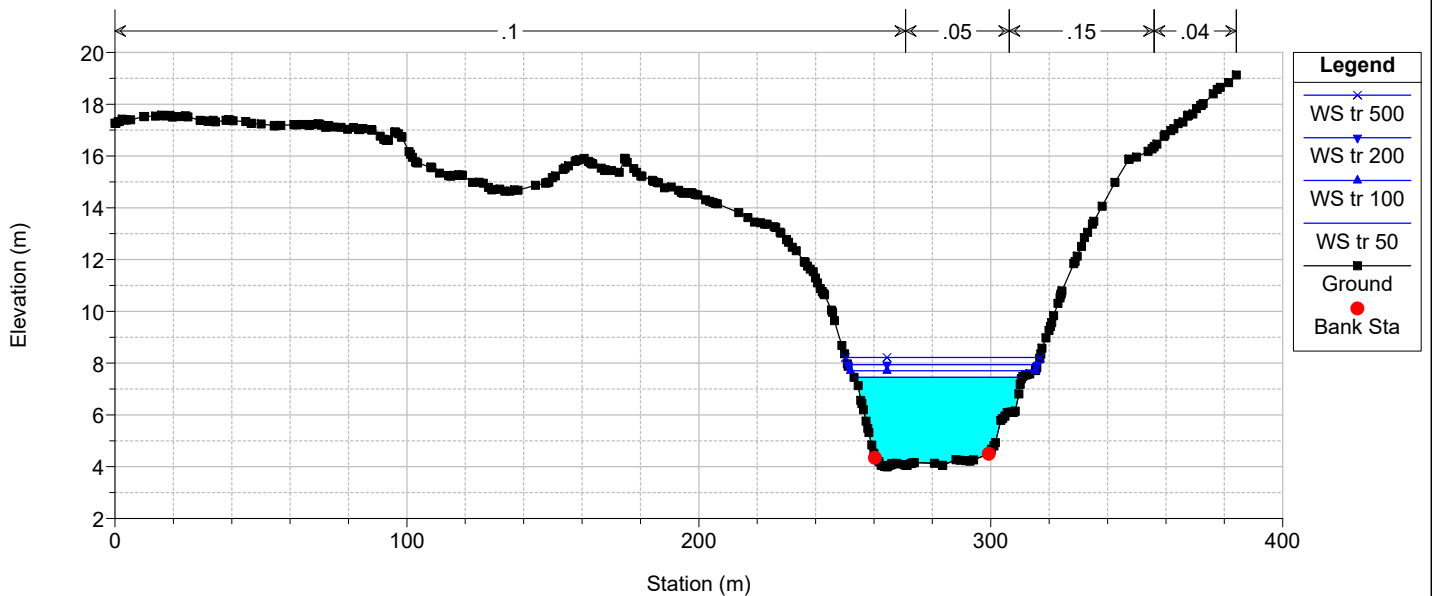
River = Fiume Santo Reach = Asta 3 RS = 1657.057 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

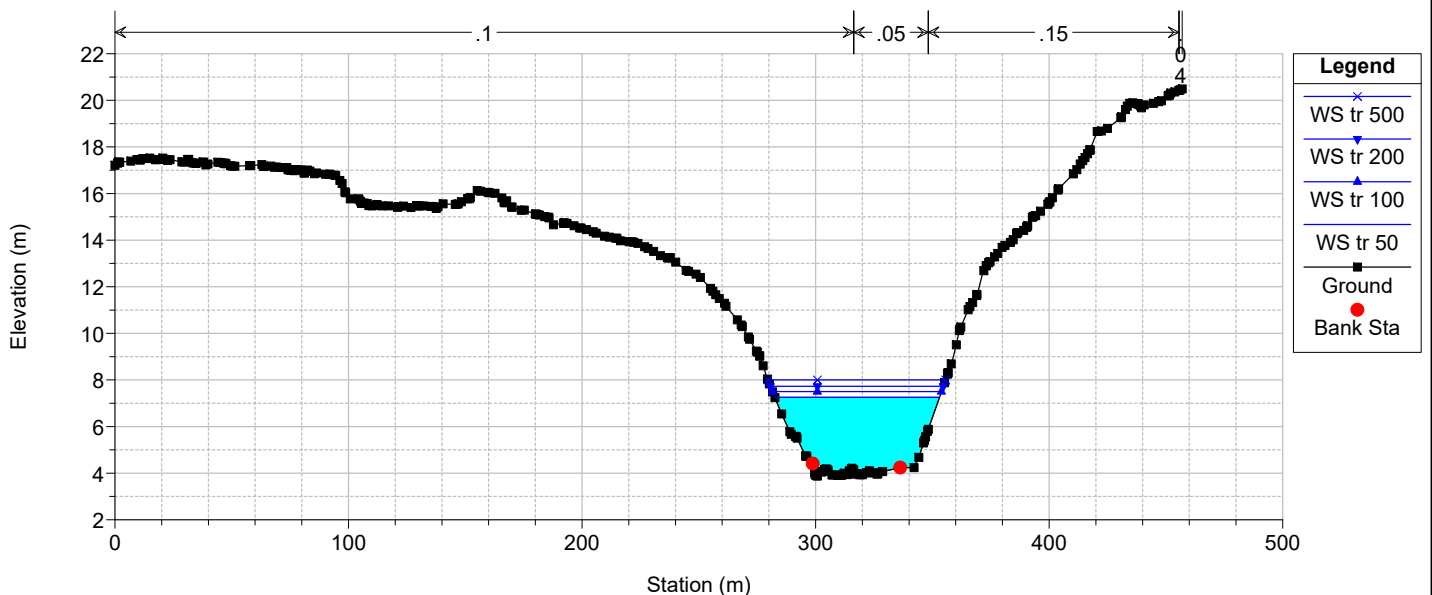
River = Fiume Santo Reach = Asta 3 RS = 1553.14 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

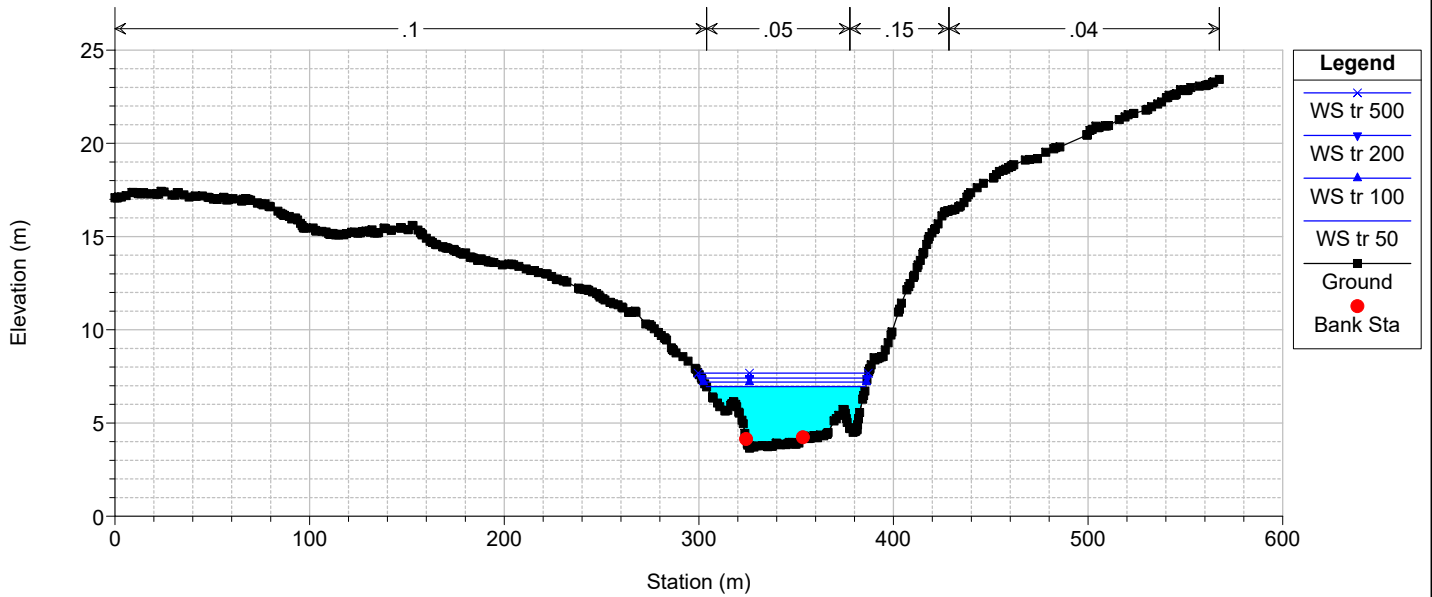
River = Fiume Santo Reach = Asta 3 RS = 1490.024 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

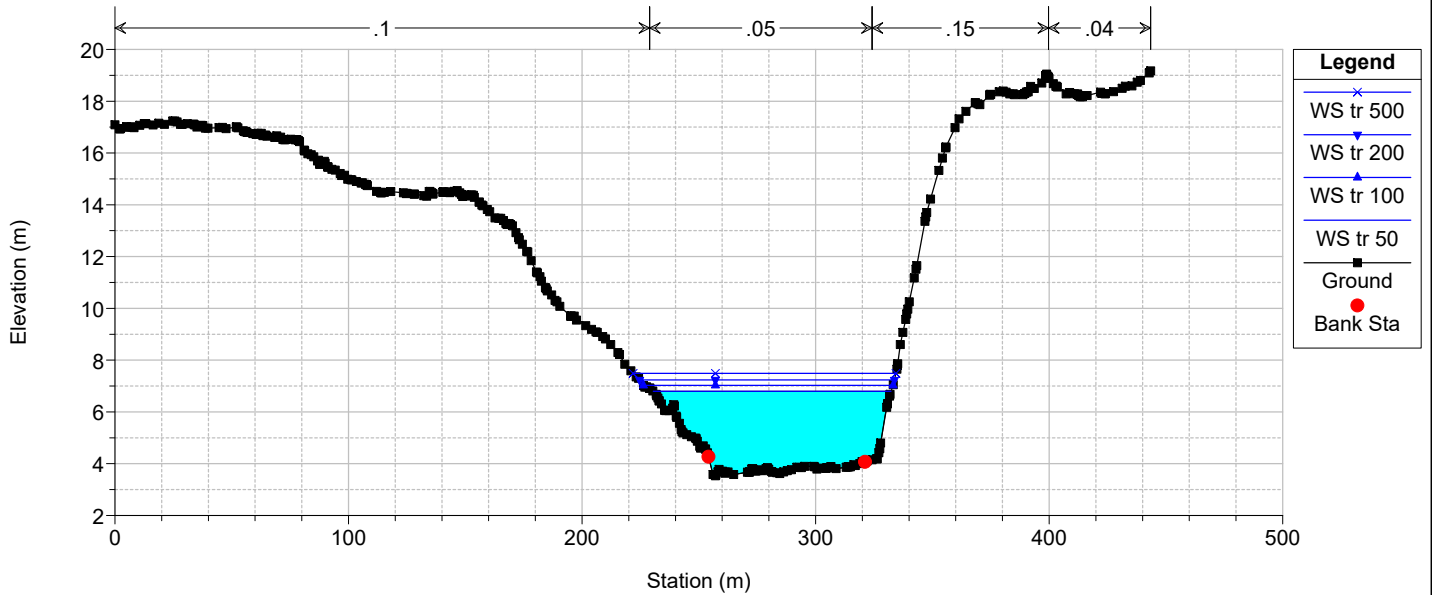
River = Fiume Santo Reach = Asta 3 RS = 1400.365 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

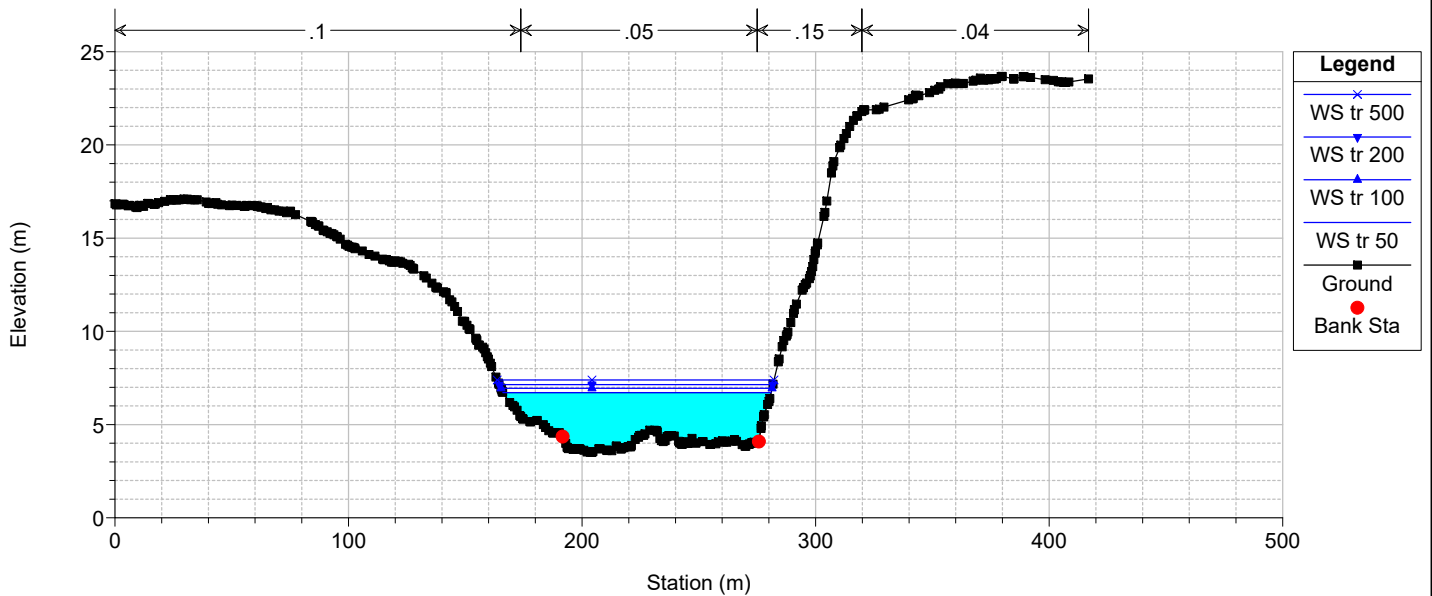
River = Fiume Santo Reach = Asta 3 RS = 1270.72 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

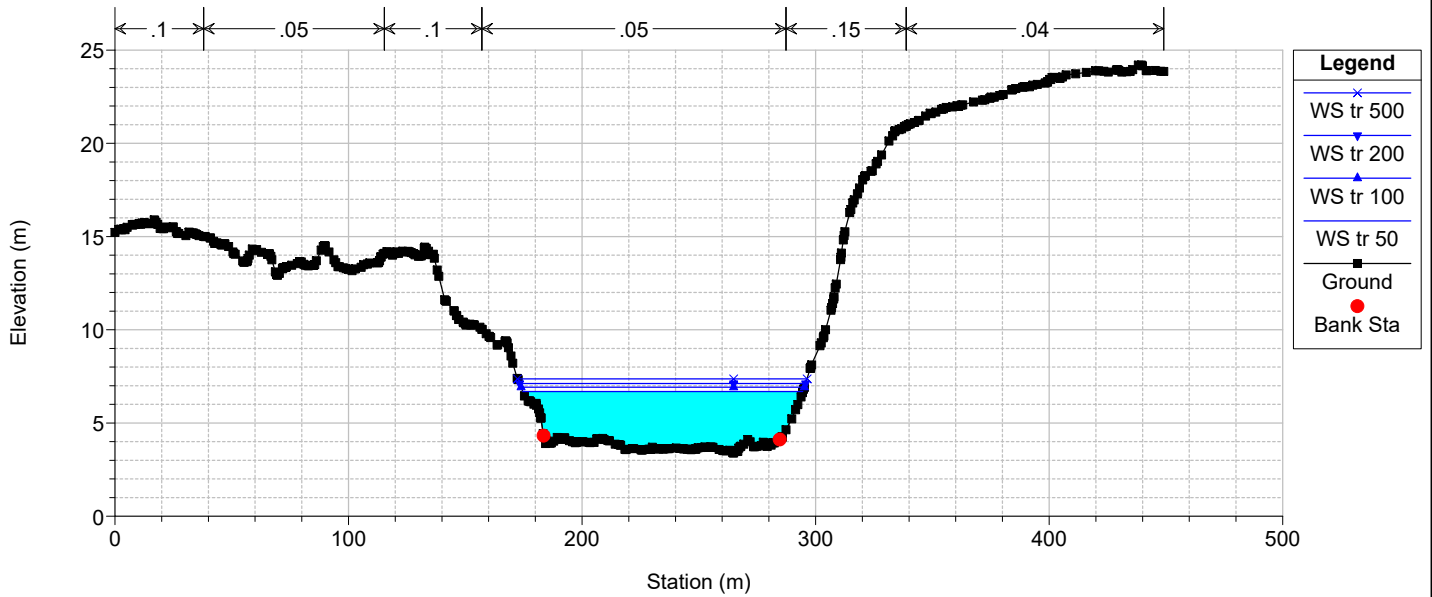
River = Fiume Santo Reach = Asta 3 RS = 1194.009 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

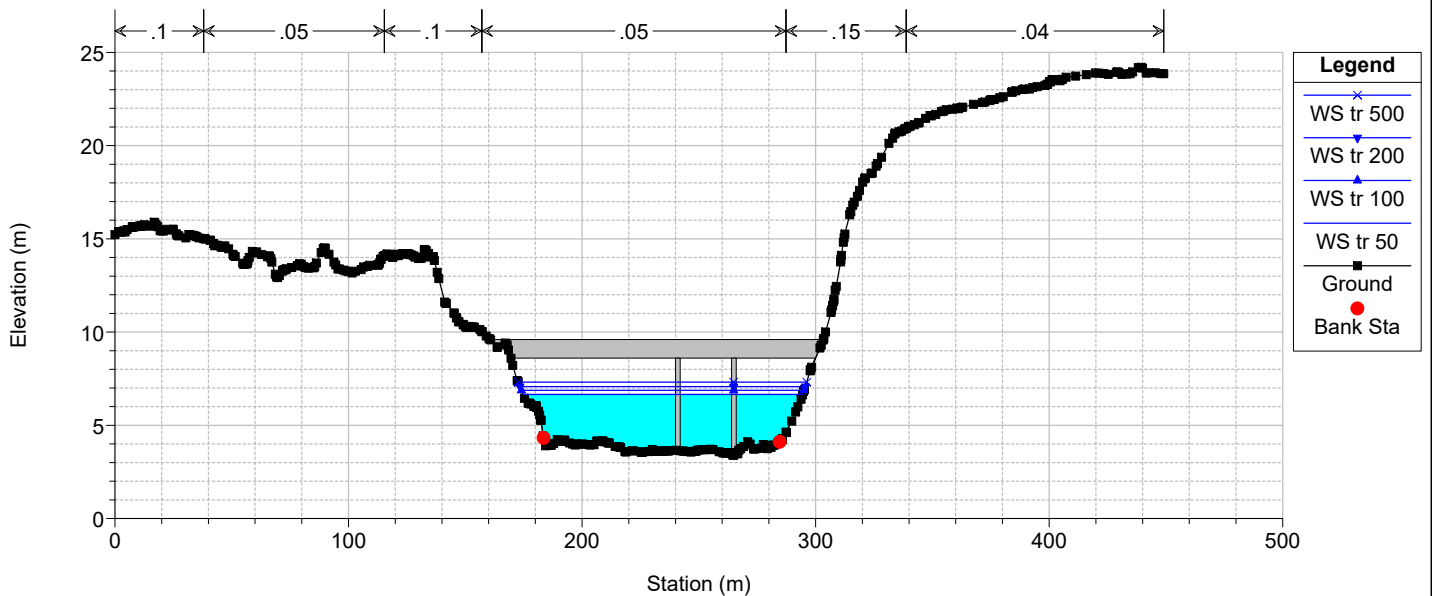
River = Fiume Santo Reach = Asta 3 RS = 1152.827 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

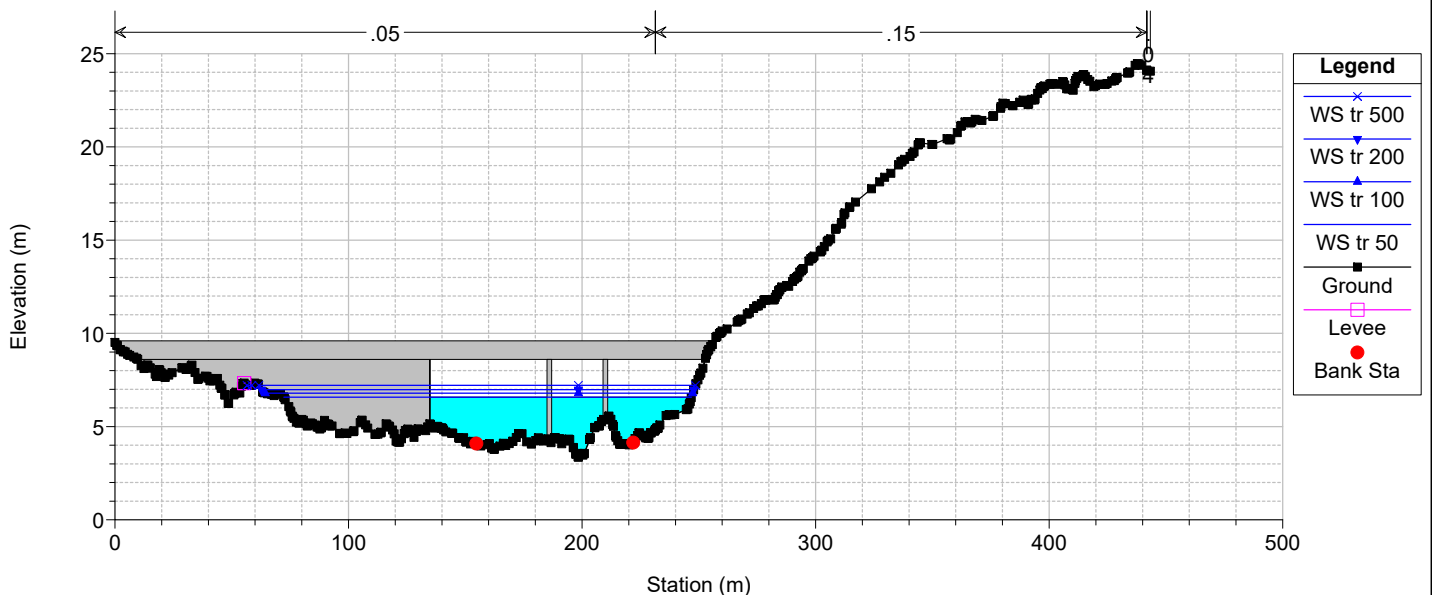
River = Fiume Santo Reach = Asta 3 RS = 1105.274 BR C62 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

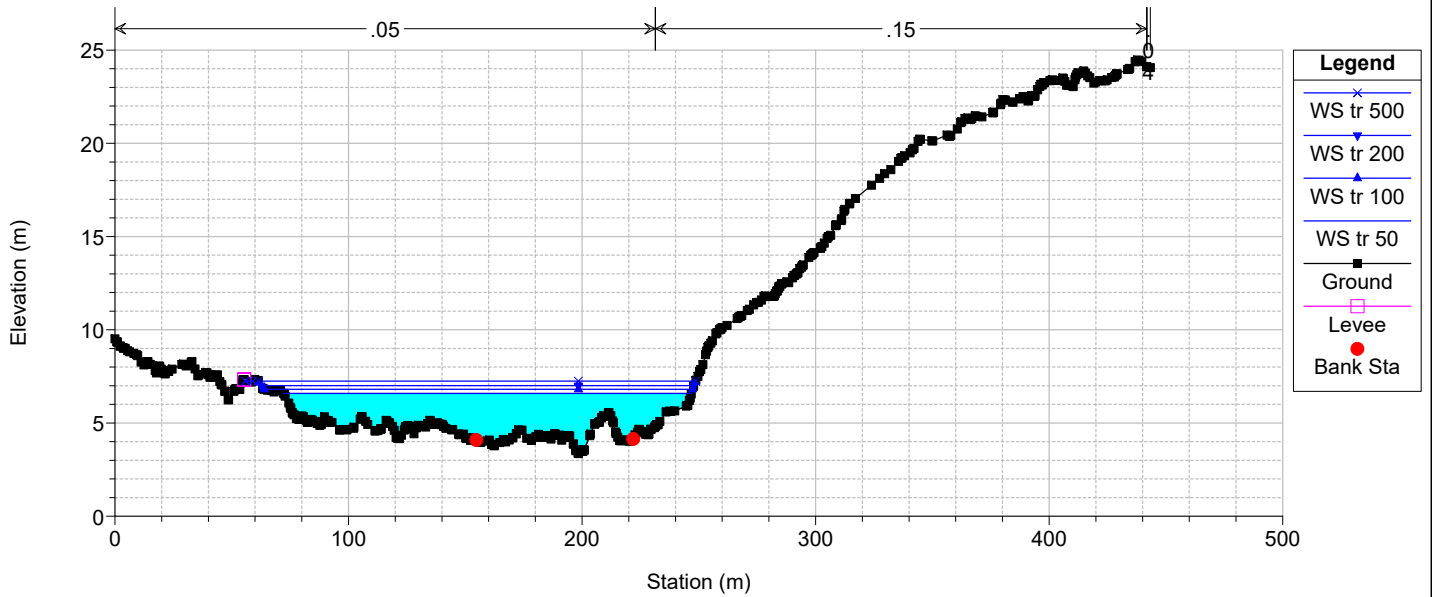
River = Fiume Santo Reach = Asta 3 RS = 1105.274 BR C62 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

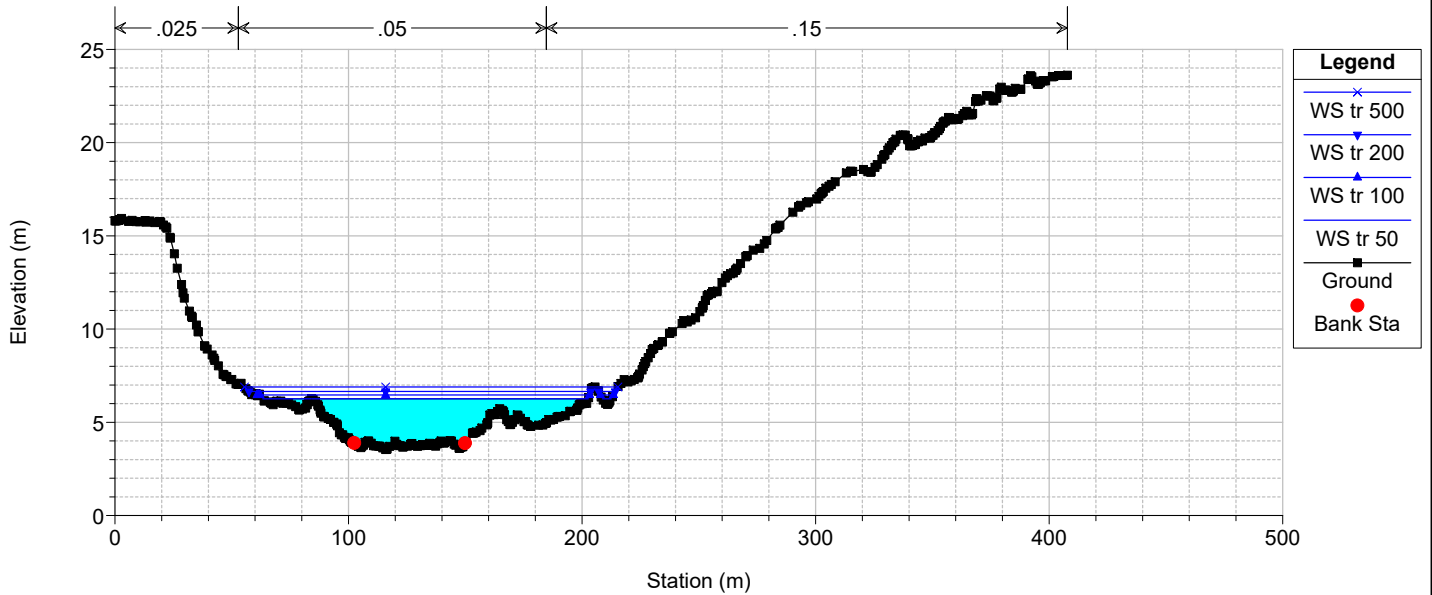
River = Fiume Santo Reach = Asta 3 RS = 1080.882 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

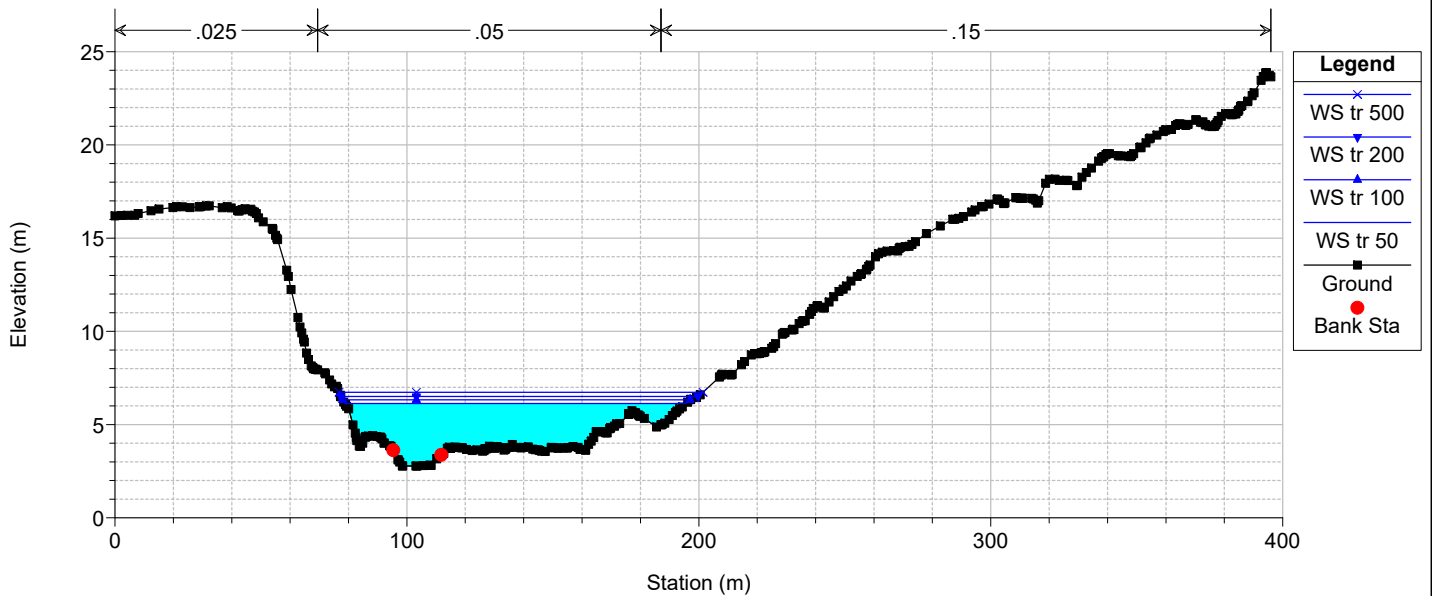
River = Fiume Santo Reach = Asta 3 RS = 966.1641 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

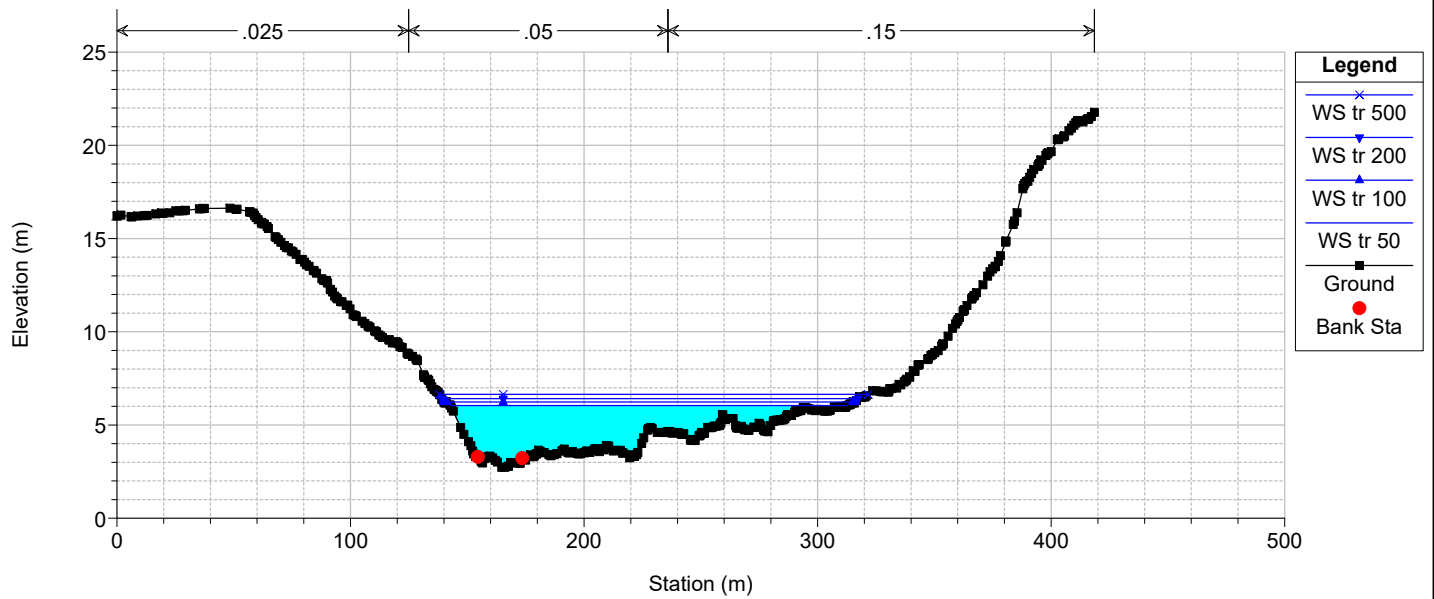
River = Fiume Santo Reach = Asta 3 RS = 893.3862 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

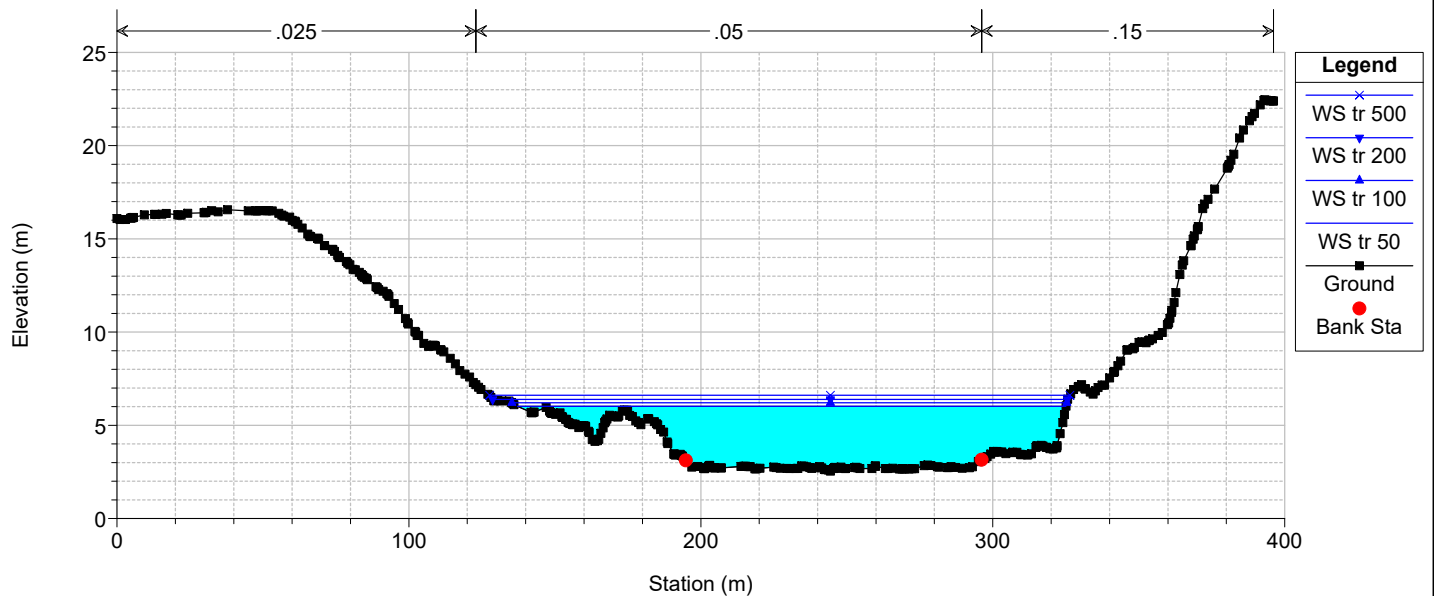
River = Fiume Santo Reach = Asta 3 RS = 830.2708 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

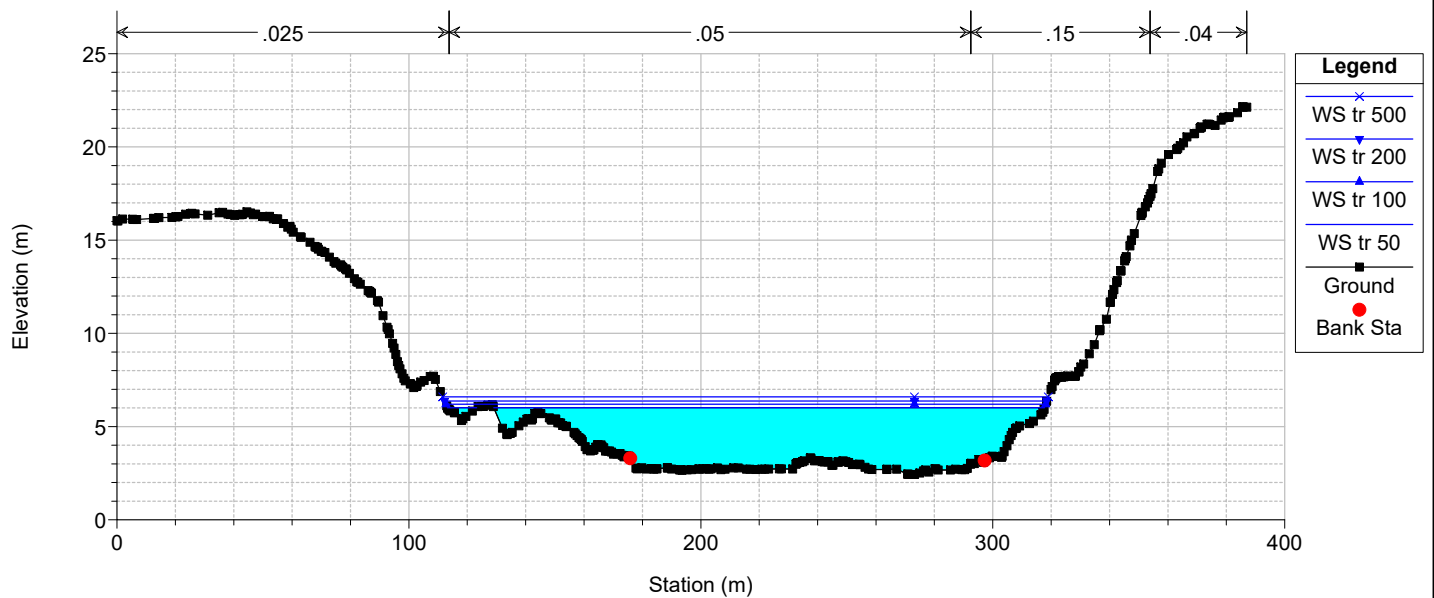
River = Fiume Santo Reach = Asta 3 RS = 757.369 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

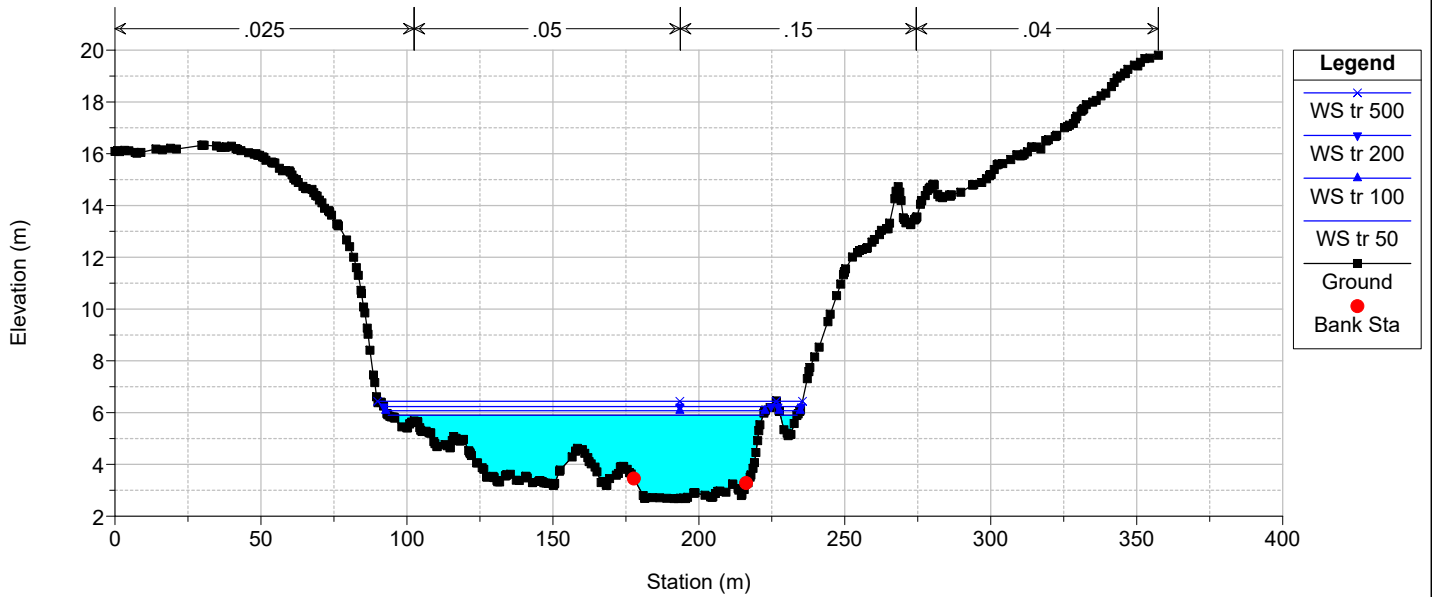
River = Fiume Santo Reach = Asta 3 RS = 715.4681 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

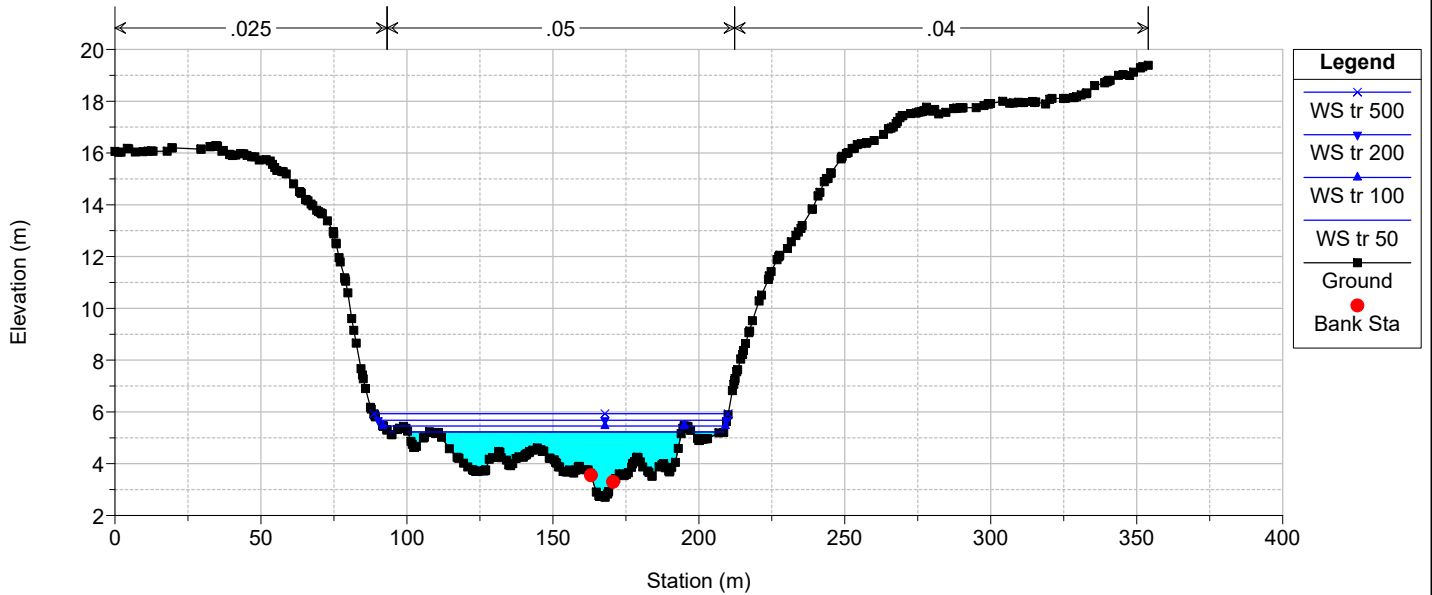
River = Fiume Santo Reach = Asta 3 RS = 650.7374 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

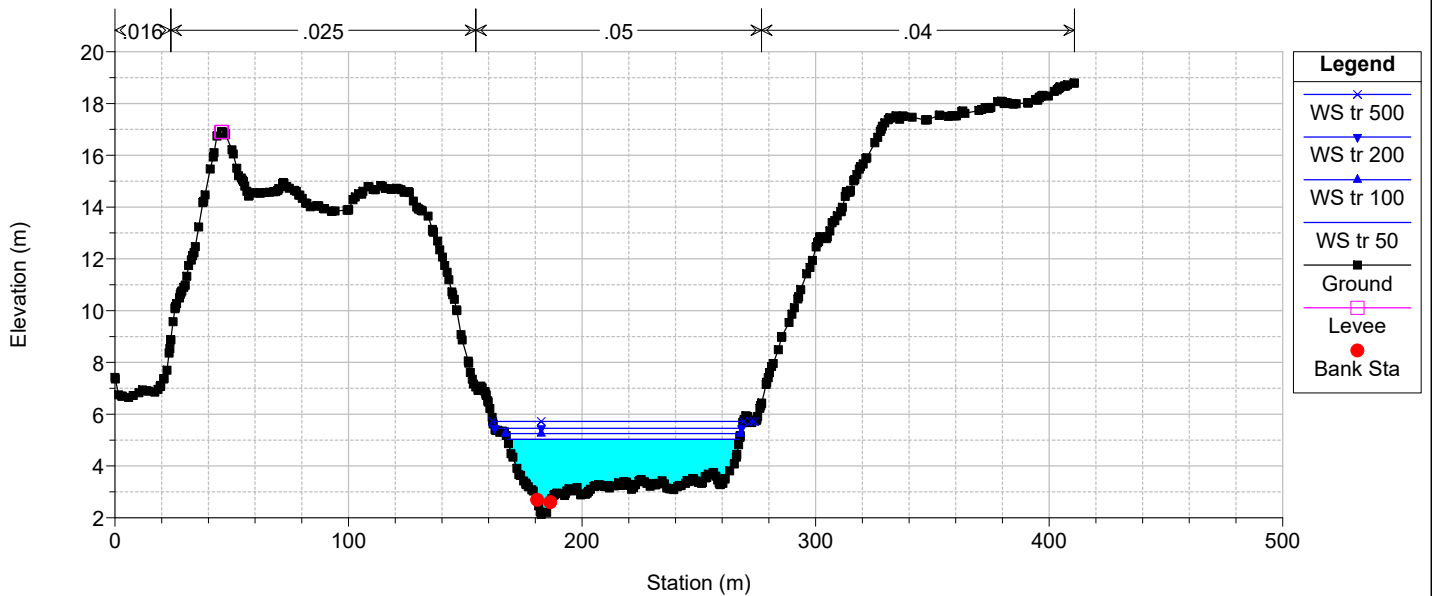
River = Fiume Santo Reach = Asta 3 RS = 613.1982 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

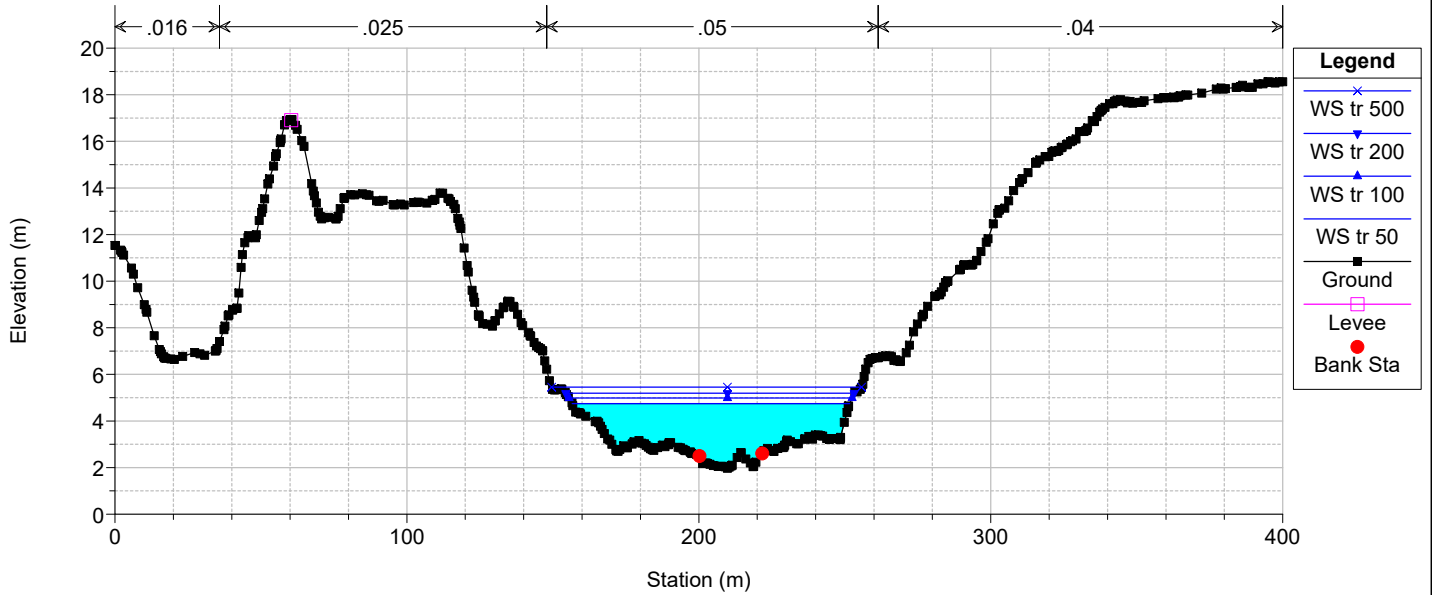
River = Fiume Santo Reach = Asta 3 RS = 557.7523 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

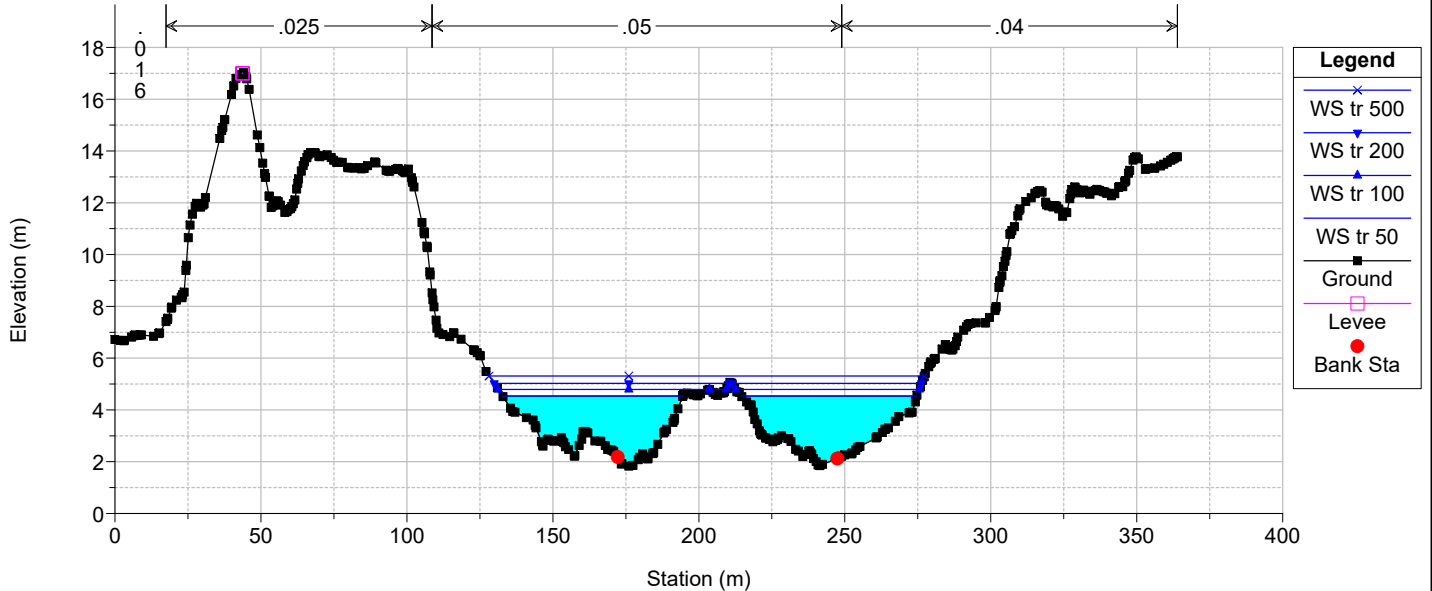
River = Fiume Santo Reach = Asta 3 RS = 500 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

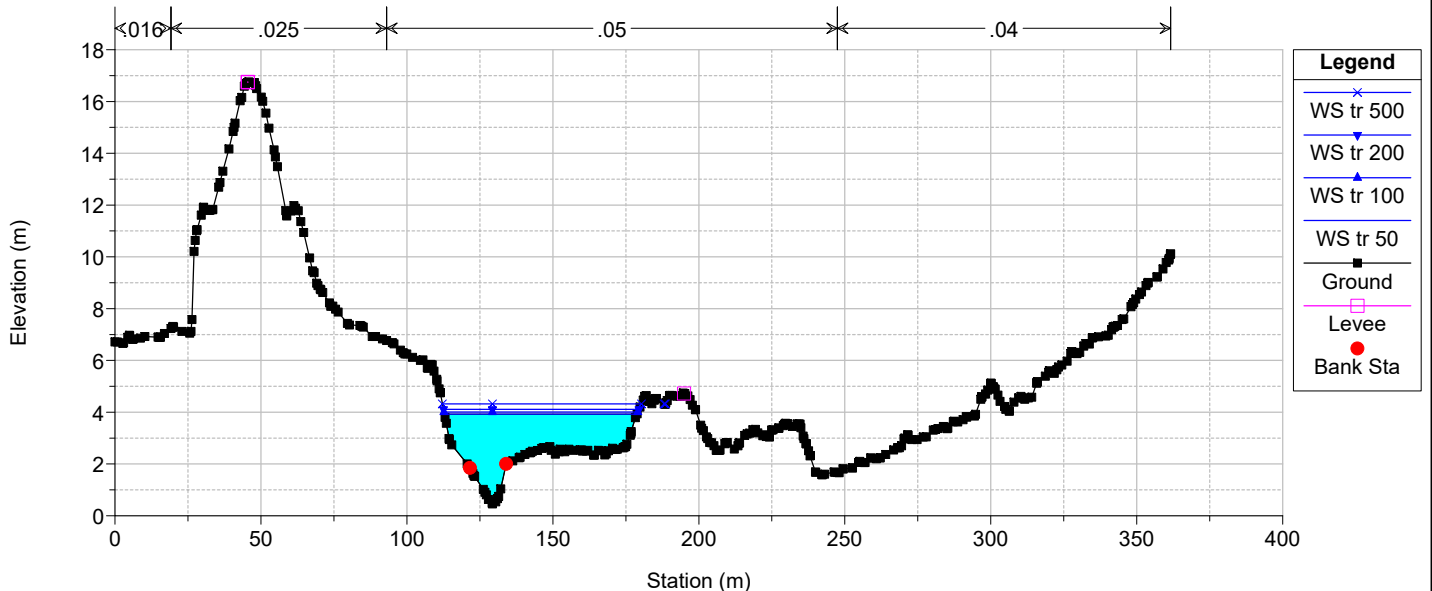
River = Fiume Santo Reach = Asta 3 RS = 432.7798 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

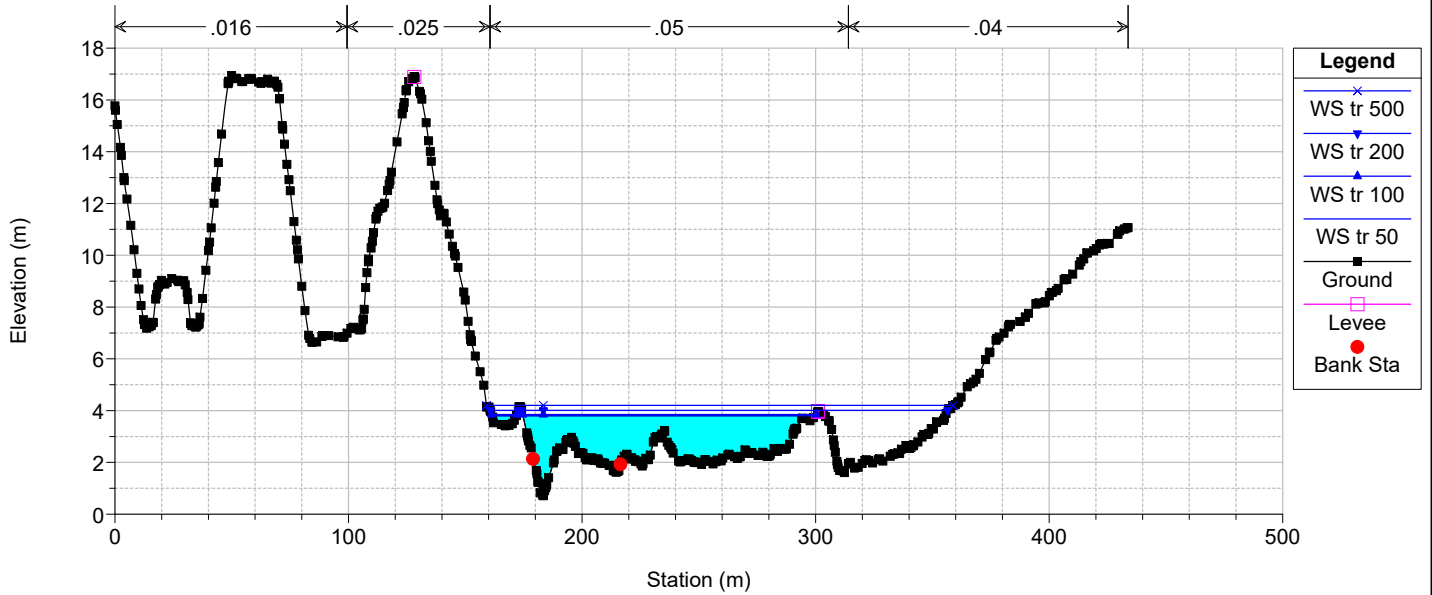
River = Fiume Santo Reach = Asta 3 RS = 405.2946 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

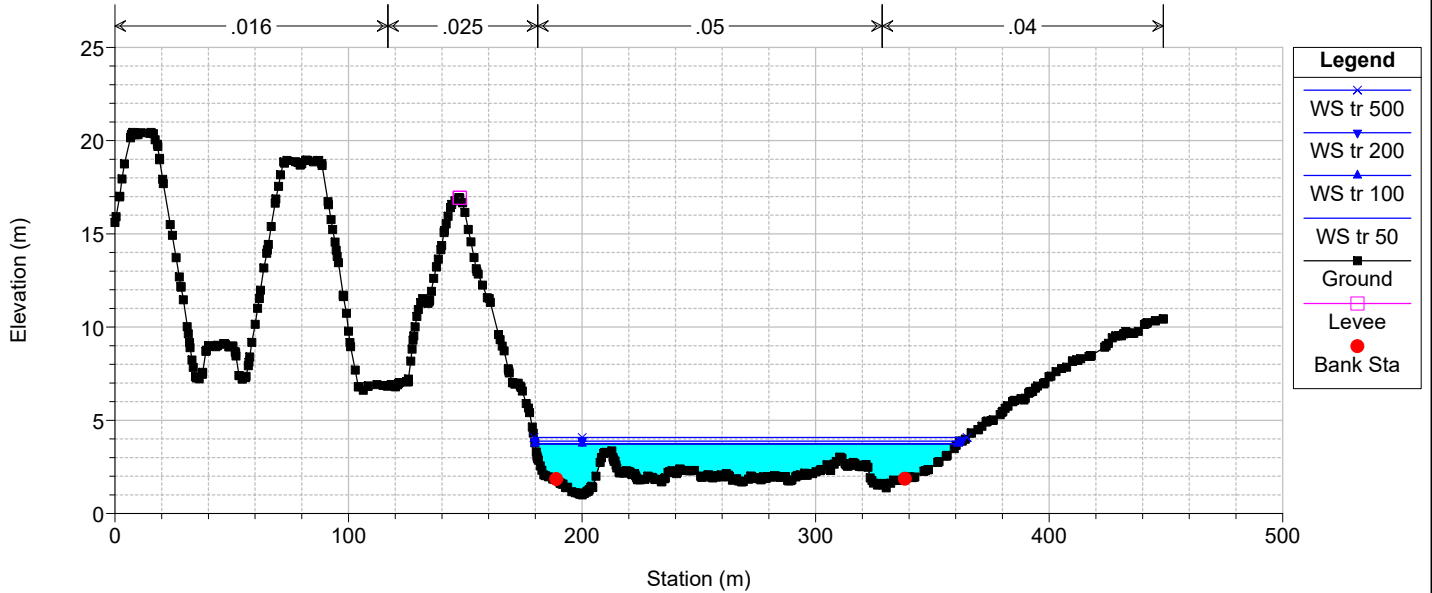
River = Fiume Santo Reach = Asta 3 RS = 348.7805 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

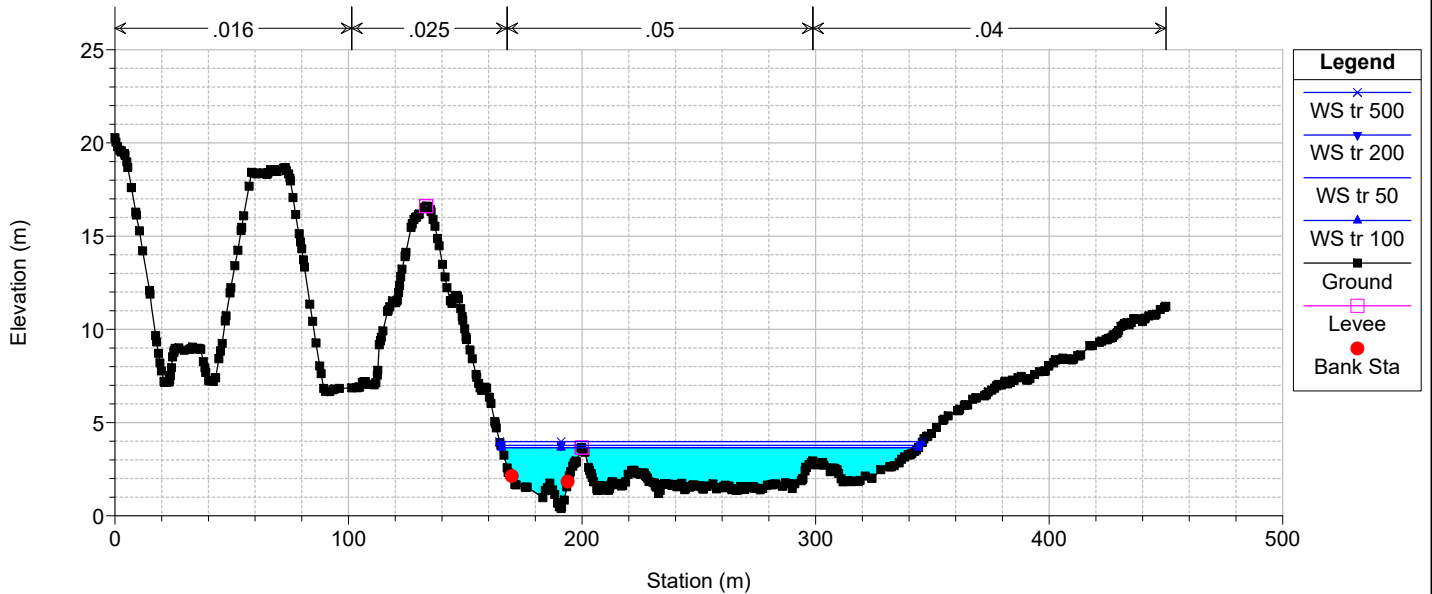
River = Fiume Santo Reach = Asta 3 RS = 293.3696 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

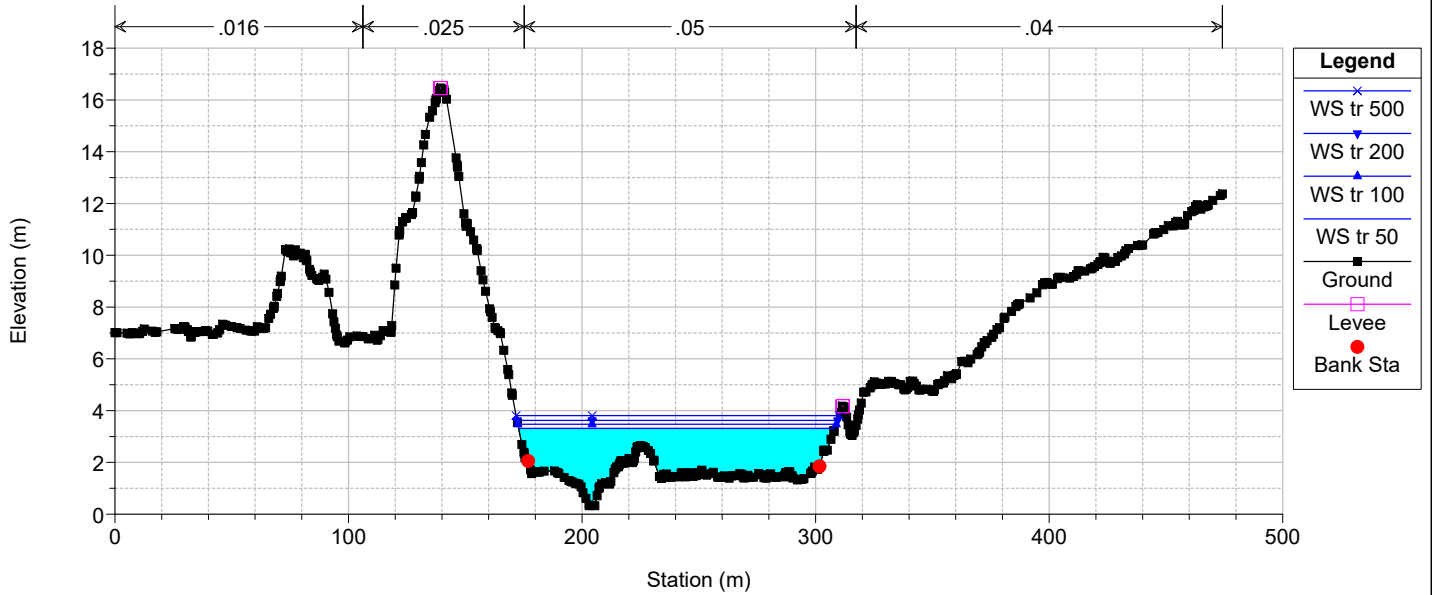
River = Fiume Santo Reach = Asta 3 RS = 245.0278 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

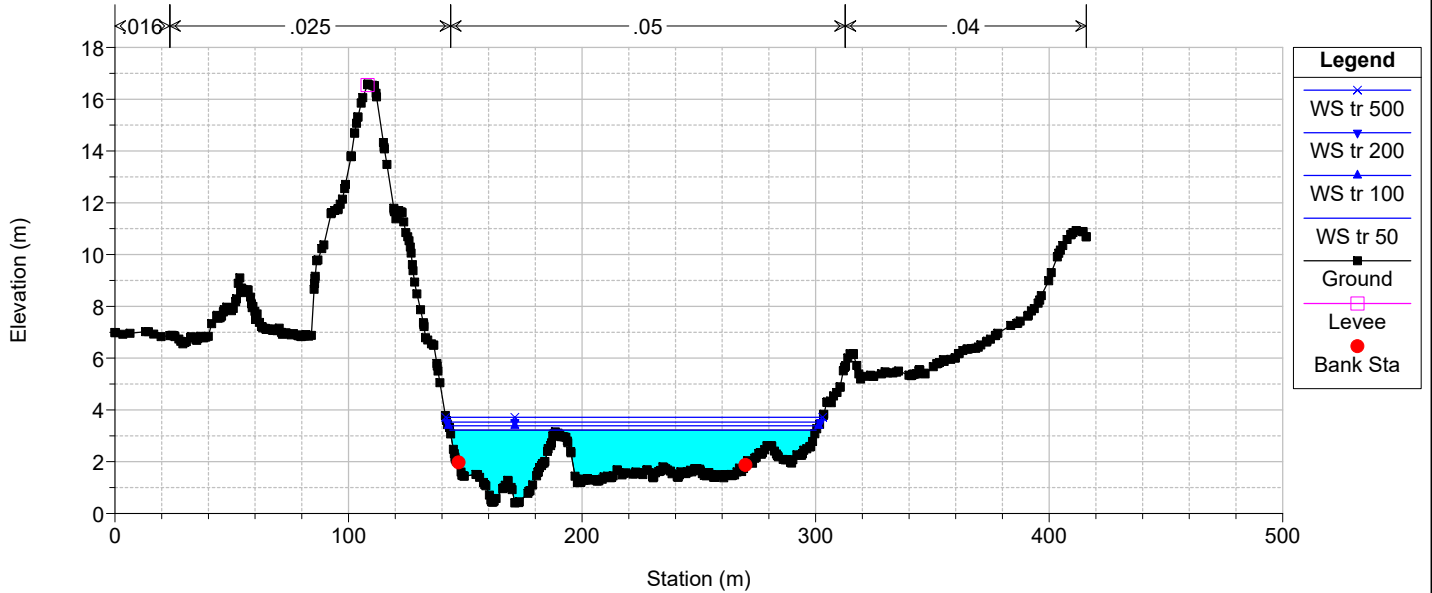
River = Fiume Santo Reach = Asta 3 RS = 200.332 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

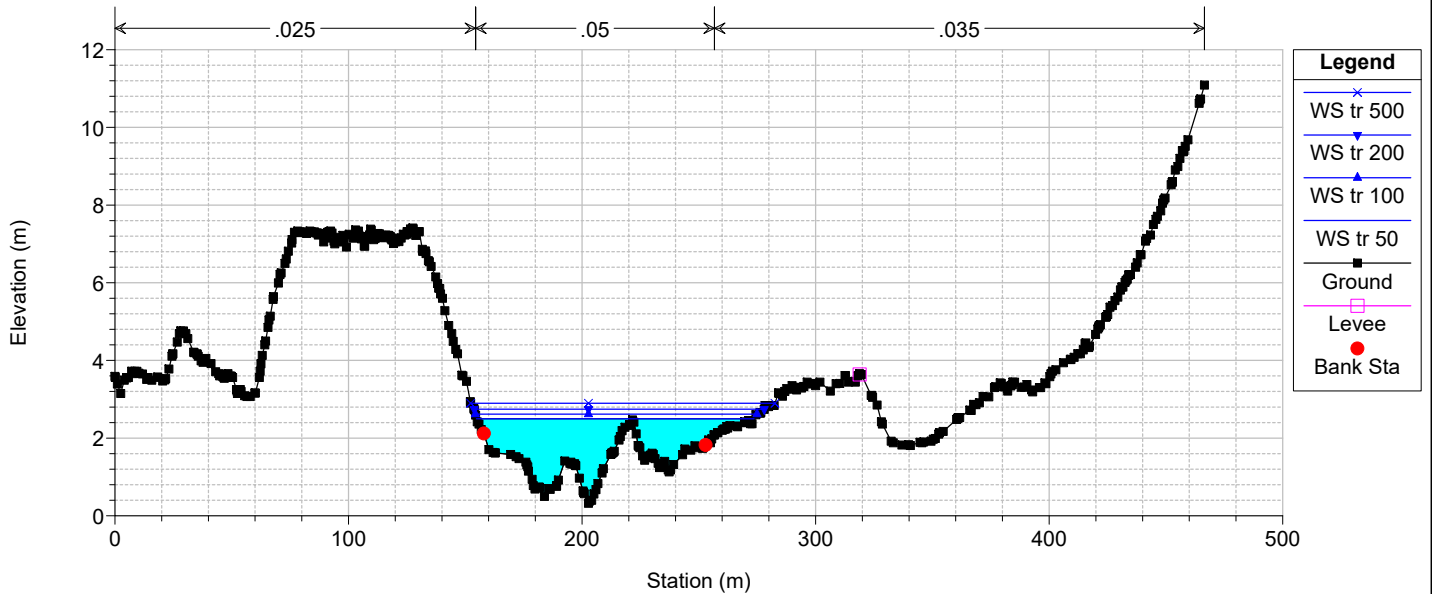
River = Fiume Santo Reach = Asta 3 RS = 163.9777 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

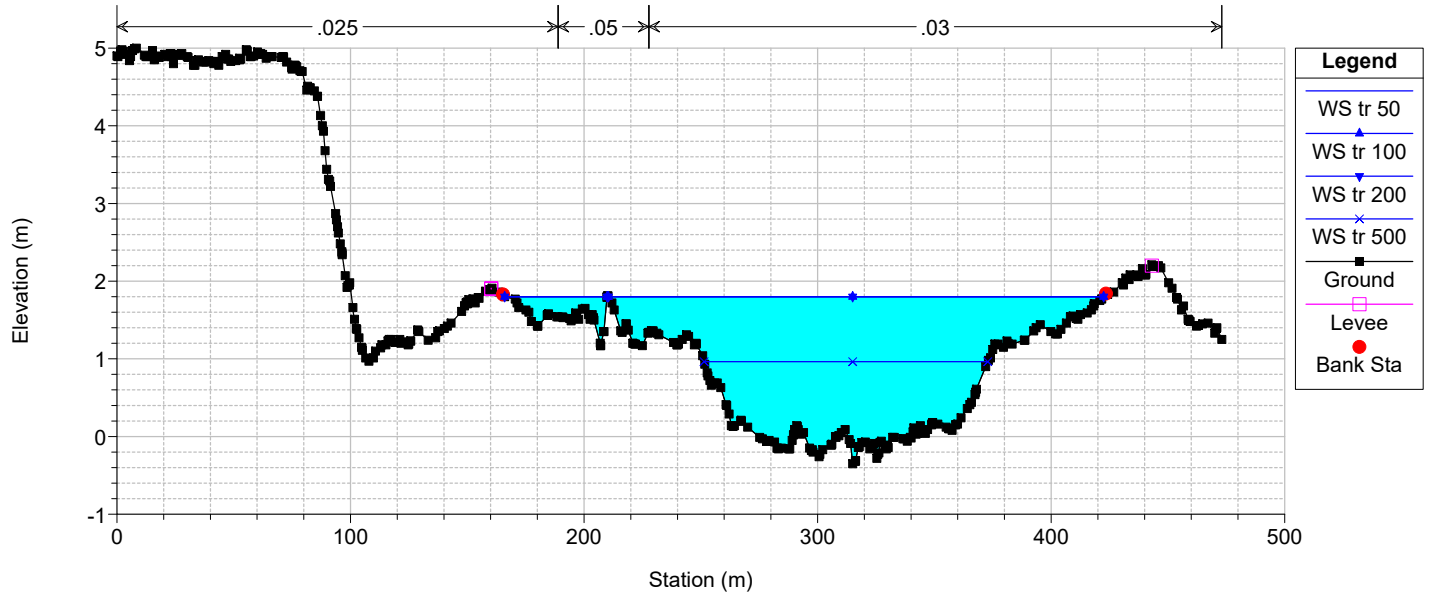
River = Fiume Santo Reach = Asta 3 RS = 109.0208 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



fiumesanto22022017 Plan: Plan 02 2/9/2021

Geom: fiumesanto27022017 Flow: fiumesanto22022017

River = Fiume Santo Reach = Asta 3 RS = 61.00846 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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 1	20301.57	tr 50	93.99	236.86	238.60	237.72	238.64	0.004488	0.82	118.96	106.02	0.22
Asta 1	20301.57	tr 100	113.73	236.86	238.72	237.80	238.76	0.004776	0.89	131.73	109.77	0.24
Asta 1	20301.57	tr 200	133.84	236.86	238.83	237.88	238.87	0.005023	0.96	143.80	113.19	0.24
Asta 1	20301.57	tr 500	160.92	236.86	238.96	237.98	239.01	0.005296	1.04	158.89	117.17	0.25
Asta 1	20269.91	tr 50	93.99	237.11	238.23	237.96	238.34	0.026649	1.65	67.34	95.01	0.52
Asta 1	20269.91	tr 100	113.73	237.11	238.32	238.04	238.45	0.027420	1.78	76.26	98.98	0.54
Asta 1	20269.91	tr 200	133.84	237.11	238.41	238.13	238.55	0.027870	1.88	84.95	102.13	0.55
Asta 1	20269.91	tr 500	160.92	237.11	238.51	238.22	238.67	0.028612	2.02	95.75	106.01	0.56
Asta 1	20238.1	tr 50	93.99	235.85	236.63	236.63	236.89	0.093414	2.46	44.65	87.52	0.92
Asta 1	20238.1	tr 100	113.73	235.85	236.71	236.71	236.99	0.089467	2.58	51.92	92.44	0.92
Asta 1	20238.1	tr 200	133.84	235.85	236.78	236.78	237.09	0.087452	2.70	58.77	96.67	0.92
Asta 1	20238.1	tr 500	160.92	235.85	236.87	236.87	237.20	0.084616	2.84	67.67	101.13	0.92
Asta 1	20201.51	tr 50	93.99	232.76	233.30	233.52	234.01	0.065601	3.96	28.05	75.71	1.81
Asta 1	20201.51	tr 100	113.73	232.76	233.35	233.60	234.16	0.065713	4.24	32.13	79.23	1.85
Asta 1	20201.51	tr 200	133.84	232.76	233.40	233.68	234.29	0.064989	4.49	36.29	82.66	1.86
Asta 1	20201.51	tr 500	160.92	232.76	233.47	233.78	234.46	0.064226	4.77	41.66	86.90	1.88
Asta 1	20147.38	tr 50	93.99	225.97	226.41	226.76	227.93	0.226080	5.86	20.15	70.39	2.99
Asta 1	20147.38	tr 100	113.73	225.97	226.45	226.85	228.13	0.219054	6.21	23.40	74.29	3.00
Asta 1	20147.38	tr 200	133.84	225.97	226.49	226.91	228.33	0.215865	6.54	26.48	77.84	3.02
Asta 1	20147.38	tr 500	160.92	225.97	226.54	227.01	228.57	0.211791	6.93	30.51	82.24	3.05
Asta 1	20077.43	tr 50	93.99	215.96	216.65	216.66	216.89	0.109519	2.47	46.35	105.71	0.98
Asta 1	20077.43	tr 100	113.73	215.96	216.70	216.73	216.98	0.113375	2.65	52.27	109.29	1.01
Asta 1	20077.43	tr 200	133.84	215.96	216.76	216.80	217.06	0.116027	2.81	57.88	112.61	1.04
Asta 1	20077.43	tr 500	160.92	215.96	216.82	216.87	217.16	0.119468	3.01	64.90	116.73	1.07
Asta 1	20007.63	tr 50	93.99	204.61	204.99	205.24	206.09	0.230812	4.88	22.18	97.37	2.76
Asta 1	20007.63	tr 100	113.73	204.61	205.02	205.31	206.21	0.218074	5.10	26.06	104.47	2.72
Asta 1	20007.63	tr 200	133.84	204.61	205.06	205.36	206.32	0.209680	5.29	29.65	108.04	2.70
Asta 1	20007.63	tr 500	160.92	204.61	205.10	205.45	206.46	0.199757	5.52	34.33	112.43	2.67
Asta 1	19952.42	tr 50	93.99	197.20	197.76	197.86	198.12	0.094730	1.90	41.53	117.76	0.87
Asta 1	19952.42	tr 100	113.73	197.20	197.80	197.92	198.23	0.098441	2.05	46.32	122.24	0.90
Asta 1	19952.42	tr 200	133.84	197.20	197.84	197.98	198.34	0.101275	2.17	50.96	126.42	0.92
Asta 1	19952.42	tr 500	160.92	197.20	197.88	198.06	198.47	0.104958	2.33	56.75	131.46	0.95
Asta 1	19895.04	tr 50	93.99	189.75	190.37	190.47	190.73	0.187201	2.87	37.83	98.44	1.25
Asta 1	19895.04	tr 100	113.73	189.75	190.43	190.54	190.82	0.178008	3.02	44.25	105.55	1.24
Asta 1	19895.04	tr 200	133.84	189.75	190.49	190.60	190.91	0.171983	3.15	50.37	111.08	1.24
Asta 1	19895.04	tr 500	160.92	189.75	190.56	190.68	191.01	0.165043	3.30	58.44	118.21	1.23
Asta 1	19855.62	tr 50	93.99	185.78	186.18	186.36	186.70	0.063929	3.48	32.64	140.22	1.87
Asta 1	19855.62	tr 100	113.73	185.78	186.22	186.40	186.81	0.065412	3.75	37.98	157.08	1.92
Asta 1	19855.62	tr 200	133.84	185.78	186.25	186.45	186.91	0.066221	3.99	43.86	190.17	1.95
Asta 1	19855.62	tr 500	160.92	185.78	186.29	186.51	187.03	0.067184	4.28	53.06	230.50	2.00
Asta 1	19801.43	tr 50	93.99	183.23	183.84	183.84	184.06	0.109899	2.14	45.92	103.15	0.95
Asta 1	19801.43	tr 100	113.73	183.23	183.90	183.90	184.15	0.105295	2.27	52.80	106.29	0.95
Asta 1	19801.43	tr 200	133.84	183.23	183.96	183.96	184.24	0.103123	2.40	59.26	109.78	0.95
Asta 1	19801.43	tr 500	160.92	183.23	184.04	184.04	184.35	0.098557	2.53	68.07	114.29	0.95
Asta 1	19730.76	tr 50	93.99	182.01	182.87	182.87	183.14	0.011692	2.52	42.65	79.91	0.94
Asta 1	19730.76	tr 100	113.73	182.01	182.95	182.95	183.25	0.011392	2.67	49.39	84.68	0.94
Asta 1	19730.76	tr 200	133.84	182.01	183.03	183.03	183.35	0.011106	2.80	56.14	89.18	0.94
Asta 1	19730.76	tr 500	160.92	182.01	183.12	183.12	183.48	0.010759	2.95	65.07	94.55	0.95
Asta 1	19670.91	tr 50	93.99	180.94	181.71	181.84	182.17	0.022356	3.13	32.75	66.60	1.26
Asta 1	19670.91	tr 100	113.73	180.94	181.78	181.93	182.30	0.022014	3.33	37.58	69.94	1.27
Asta 1	19670.91	tr 200	133.84	180.94	181.85	182.01	182.42	0.021850	3.52	42.18	72.92	1.29
Asta 1	19670.91	tr 500	160.92	180.94	181.93	182.10	182.56	0.021646	3.74	47.95	76.50	1.30
Asta 1	19623.99	tr 50	93.99	178.40	178.99	179.32	180.23	0.089426	5.54	20.28	55.96	2.45
Asta 1	19623.99	tr 100	113.73	178.40	179.04	179.40	180.40	0.086079	5.81	23.39	58.32	2.44
Asta 1	19623.99	tr 200	133.84	178.40	179.09	179.49	180.54	0.082801	6.04	26.48	60.57	2.43
Asta 1	19623.99	tr 500	160.92	178.40	179.16	179.58	180.72	0.078952	6.30	30.55	63.45	2.41
Asta 1	19580.12	tr 50	93.99	175.99	176.66	176.90	177.44	0.043612	4.20	25.82	59.16	1.72
Asta 1	19580.12	tr 100	113.73	175.99	176.71	176.99	177.61	0.044683	4.51	29.34	62.07	1.77
Asta 1	19580.12	tr 200	133.84	175.99	176.77	177.08	177.77	0.045764	4.80	32.67	64.25	1.81
Asta 1	19580.12	tr 500	160.92	175.99	176.83	177.18	177.97	0.046953	5.15	36.89	66.68	1.86
Asta 1	19453.11	tr 50	93.99	169.54	170.17	170.47	171.15	0.056585	4.59	22.62	53.53	1.97
Asta 1	19453.11	tr 100	113.73	169.54	170.24	170.57	171.31	0.055083	4.87	26.07	56.22	1.98
Asta 1	19453.11	tr 200	133.84	169.54	170.30	170.66	171.47	0.053763	5.11	29.48	58.75	1.98
Asta 1	19453.11	tr 500	160.92	169.54	170.37	170.76	171.66	0.052428	5.41	33.92	62.18	1.99
Asta 1	19401.06	tr 50	93.99	167.66	168.37	168.53	168.89	0.030767	3.55	31.59	71.60	1.43
Asta 1	19401.06	tr 100	113.73	167.66	168.42	168.60	169.02	0.032088	3.83	35.59	74.36	1.48
Asta 1	19401.06	tr 200	133.84	167.66	168.47	168.68	169.15	0.033372	4.09	39.32	76.51	1.52

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 1	19401.06	tr 500	160.92	167.66	168.53	168.78	169.31	0.034664	4.40	44.13	79.19	1.57
Asta 1	19324.43	tr 50	93.99	161.83	162.32	162.69	163.94	0.197294	6.13	17.37	58.34	3.06
Asta 1	19324.43	tr 100	113.73	161.83	162.37	162.76	164.07	0.178230	6.31	20.52	61.66	2.96
Asta 1	19324.43	tr 200	133.84	161.83	162.42	162.84	164.19	0.163761	6.48	23.67	64.80	2.89
Asta 1	19324.43	tr 500	160.92	161.83	162.48	162.93	164.35	0.150890	6.70	27.70	68.62	2.83
Asta 1	19277.88	tr 50	93.99	158.77	159.43	159.58	159.92	0.042642	3.20	31.01	71.89	1.46
Asta 1	19277.88	tr 100	113.73	158.77	159.49	159.66	160.05	0.044808	3.44	34.98	75.74	1.52
Asta 1	19277.88	tr 200	133.84	158.77	159.54	159.73	160.17	0.046798	3.66	38.78	79.25	1.57
Asta 1	19277.88	tr 500	160.92	158.77	159.59	159.82	160.33	0.049040	3.95	43.40	83.68	1.62
Asta 1	19200.95	tr 50	93.99	150.30	150.75	151.16	152.99	0.275225	6.94	14.60	53.10	3.78
Asta 1	19200.95	tr 100	113.73	150.30	150.80	151.25	153.13	0.242693	7.12	17.48	57.31	3.61
Asta 1	19200.95	tr 200	133.84	150.30	150.85	151.33	153.25	0.219464	7.27	20.24	59.58	3.49
Asta 1	19200.95	tr 500	160.92	150.30	150.90	151.42	153.42	0.197780	7.47	23.81	62.28	3.37
Asta 1	19115.73	tr 50	93.99	136.17	136.80	137.18	138.17	0.116475	5.40	18.79	45.78	2.43
Asta 1	19115.73	tr 100	113.73	136.17	136.85	137.28	138.48	0.125167	5.92	20.89	47.63	2.55
Asta 1	19115.73	tr 200	133.84	136.17	136.89	137.37	138.79	0.132961	6.41	22.89	49.33	2.66
Asta 1	19115.73	tr 500	160.92	136.17	136.94	137.49	139.18	0.141871	6.99	25.44	51.42	2.79
Asta 1	19011.47	tr 50	93.99	129.36	131.82	130.41	131.85	0.000307	0.74	134.50	85.55	0.17
Asta 1	19011.47	tr 100	113.73	129.36	131.95	130.52	131.99	0.000353	0.83	146.31	88.50	0.18
Asta 1	19011.47	tr 200	133.84	129.36	132.08	130.61	132.12	0.000396	0.91	157.59	91.10	0.20
Asta 1	19011.47	tr 500	160.92	129.36	132.23	130.73	132.28	0.000449	1.02	171.77	94.27	0.21
Asta 1	18927.36	tr 50	93.99	130.49	131.41	131.41	131.74	0.015280	2.62	38.60	61.46	0.95
Asta 1	18927.36	tr 100	113.73	130.49	131.51	131.51	131.87	0.014544	2.77	44.73	64.57	0.94
Asta 1	18927.36	tr 200	133.84	130.49	131.60	131.60	131.99	0.013968	2.90	50.77	67.59	0.94
Asta 1	18927.36	tr 500	160.92	130.49	131.71	131.71	132.14	0.013405	3.05	58.51	70.92	0.94
Asta 1	18849.74	tr 50	93.99	129.48	130.26	130.26	130.52	0.015470	2.41	43.47	85.07	0.93
Asta 1	18849.74	tr 100	113.73	129.48	130.31	130.34	130.63	0.017047	2.66	48.08	88.49	0.99
Asta 1	18849.74	tr 200	133.84	129.48	130.36	130.41	130.74	0.018719	2.90	52.22	91.42	1.05
Asta 1	18849.74	tr 500	160.92	129.48	130.42	130.51	130.87	0.020262	3.17	57.91	95.33	1.10
Asta 1	18800.73	tr 50	93.99	121.92	122.19	122.67	127.54	1.343677	10.51	9.55	54.56	7.18
Asta 1	18800.73	tr 100	113.73	121.92	122.23	122.74	127.50	1.084736	10.52	11.72	58.39	6.63
Asta 1	18800.73	tr 200	133.84	121.92	122.27	122.82	127.45	0.904254	10.53	13.99	62.14	6.19
Asta 1	18800.73	tr 500	160.92	121.92	122.31	122.90	127.46	0.754486	10.59	16.96	66.61	5.80
Asta 1	18700.67	tr 50	93.99	119.91	120.51	120.53	120.74	0.018639	2.32	46.53	114.21	0.99
Asta 1	18700.67	tr 100	113.73	119.91	120.59	120.59	120.83	0.016268	2.37	55.90	122.50	0.95
Asta 1	18700.67	tr 200	133.84	119.91	120.64	120.65	120.91	0.016308	2.50	62.69	127.79	0.96
Asta 1	18700.67	tr 500	160.92	119.91	120.71	120.73	121.00	0.016488	2.67	71.14	133.60	0.98
Asta 1	18597.15	tr 50	93.99	116.68	117.29	117.16	117.37	0.006828	1.35	77.27	187.22	0.59
Asta 1	18597.15	tr 100	113.73	116.68	117.06	117.21	117.55	0.085120	3.21	37.54	150.87	1.90
Asta 1	18597.15	tr 200	133.84	116.68	117.08	117.25	117.63	0.083900	3.40	42.01	156.18	1.91
Asta 1	18597.15	tr 500	160.92	116.68	117.12	117.31	117.73	0.081296	3.60	48.02	162.84	1.92
Asta 1	18500.56	tr 50	93.99	115.78	116.20	116.20	116.33	0.019435	1.83	64.10	254.65	0.95
Asta 1	18500.56	tr 100	113.73	115.78	116.24	116.24	116.38	0.018790	1.92	73.82	262.97	0.95
Asta 1	18500.56	tr 200	133.84	115.78	116.27	116.27	116.42	0.018977	2.02	81.97	267.52	0.96
Asta 1	18500.56	tr 500	160.92	115.78	116.31	116.31	116.48	0.018721	2.13	93.12	274.47	0.97
Asta 1	18442.03	tr 50	93.99	112.41	112.76	113.00	113.70	0.170272	4.38	22.58	97.42	2.66
Asta 1	18442.03	tr 100	113.73	112.41	112.79	113.06	113.83	0.161924	4.63	26.13	102.60	2.65
Asta 1	18442.03	tr 200	133.84	112.41	112.83	113.11	113.92	0.146471	4.77	30.24	108.29	2.57
Asta 1	18442.03	tr 500	160.92	112.41	112.88	113.18	114.04	0.134625	4.96	35.36	114.26	2.51
Asta 1	18400.5	tr 50	93.99	109.68	110.23	110.33	110.59	0.038388	3.11	37.87	114.28	1.40
Asta 1	18400.5	tr 100	113.73	109.68	110.27	110.40	110.68	0.039886	3.34	42.71	118.70	1.44
Asta 1	18400.5	tr 200	133.84	109.68	110.31	110.45	110.77	0.041943	3.58	47.06	122.52	1.49
Asta 1	18400.5	tr 500	160.92	109.68	110.35	110.52	110.89	0.044006	3.85	52.69	127.31	1.55
Asta 1	18300.45	tr 50	93.99	105.06	108.18	105.68	108.18	0.000016	0.18	543.57	259.39	0.04
Asta 1	18300.45	tr 100	113.73	105.06	108.29	105.74	108.29	0.000020	0.20	572.26	264.23	0.04
Asta 1	18300.45	tr 200	133.84	105.06	108.40	105.80	108.40	0.000024	0.23	600.25	268.87	0.05
Asta 1	18300.45	tr 500	160.92	105.06	108.53	105.87	108.53	0.000029	0.26	636.88	274.31	0.05
Asta 1	18215.05	tr 50	93.99	103.66	108.18		108.18	0.000005	0.12	807.81	275.25	0.02
Asta 1	18215.05	tr 100	113.73	103.66	108.29		108.29	0.000007	0.14	838.19	279.14	0.02
Asta 1	18215.05	tr 200	133.84	103.66	108.40		108.40	0.000008	0.15	867.69	282.83	0.03
Asta 1	18215.05	tr 500	160.92	103.66	108.53		108.53	0.000010	0.18	906.15	287.56	0.03
Asta 1	18109.46	tr 50	93.99	103.31	108.18		108.18	0.000005	0.13	725.84	235.91	0.02
Asta 1	18109.46	tr 100	113.73	103.31	108.29		108.29	0.000007	0.15	751.80	238.89	0.03
Asta 1	18109.46	tr 200	133.84	103.31	108.39		108.40	0.000009	0.17	776.97	241.75	0.03
Asta 1	18109.46	tr 500	160.92	103.31	108.53		108.53	0.000011	0.20	809.73	245.43	0.03
Asta 1	17771.82	tr 50	93.99	103.91	108.18		108.18	0.000009	0.16	593.01	214.42	0.03

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 1	17771.82	tr 100	113.73	103.91	108.29		108.29	0.000012	0.19	616.41	217.22	0.03
Asta 1	17771.82	tr 200	133.84	103.91	108.39		108.39	0.000015	0.21	639.10	219.90	0.04
Asta 1	17771.82	tr 500	160.92	103.91	108.52		108.53	0.000019	0.24	668.61	223.32	0.04
Asta 1	17614.47	tr 50	93.99	101.03	108.18		108.18	0.000000	0.04	2449.80	475.82	0.01
Asta 1	17614.47	tr 100	113.73	101.03	108.29		108.29	0.000000	0.05	2501.65	478.00	0.01
Asta 1	17614.47	tr 200	133.84	101.03	108.39		108.39	0.000000	0.05	2551.51	480.05	0.01
Asta 1	17614.47	tr 500	160.92	101.03	108.52		108.52	0.000000	0.06	2615.83	482.62	0.01
Asta 1	17572.85	tr 50	93.99	98.42	108.18		108.18	0.000000	0.02	4154.99	548.25	0.00
Asta 1	17572.85	tr 100	113.73	98.42	108.29		108.29	0.000000	0.03	4214.73	550.50	0.00
Asta 1	17572.85	tr 200	133.84	98.42	108.39		108.39	0.000000	0.03	4272.15	552.65	0.00
Asta 1	17572.85	tr 500	160.92	98.42	108.52		108.52	0.000000	0.04	4346.19	555.38	0.00
Asta 1	17550.12	tr 50	93.99	97.56	108.18		108.18	0.000000	0.03	3482.65	509.54	0.00
Asta 1	17550.12	tr 100	113.73	97.56	108.29		108.29	0.000000	0.03	3538.20	512.44	0.00
Asta 1	17550.12	tr 200	133.84	97.56	108.39		108.39	0.000000	0.04	3591.69	515.23	0.00
Asta 1	17550.12	tr 500	160.92	97.56	108.52		108.52	0.000000	0.04	3660.78	518.80	0.01
Asta 1	17497.86	tr 50	93.99	96.45	108.18		108.18	0.000000	0.03	3028.32	465.58	0.00
Asta 1	17497.86	tr 100	113.73	96.45	108.29		108.29	0.000000	0.04	3079.15	469.51	0.00
Asta 1	17497.86	tr 200	133.84	96.45	108.39		108.39	0.000000	0.04	3128.21	472.94	0.01
Asta 1	17497.86	tr 500	160.92	96.45	108.52		108.52	0.000000	0.05	3191.67	476.97	0.01
Asta 1	17433.02	tr 50	93.99	95.69	108.18	96.56	108.18	0.000000	0.03	2894.98	437.24	0.00
Asta 1	17433.02	tr 100	113.73	95.69	108.29	96.64	108.29	0.000000	0.04	2942.74	441.25	0.00
Asta 1	17433.02	tr 200	133.84	95.69	108.39	96.72	108.39	0.000000	0.04	2988.87	445.10	0.01
Asta 1	17433.02	tr 500	160.92	95.69	108.52	96.81	108.52	0.000000	0.05	3048.67	450.04	0.01
Asta 1	17418.73		Culvert									
Asta 1	17408.49	tr 50	93.99	95.81	108.18		108.18	0.000000	0.03	2729.82	356.43	0.00
Asta 1	17408.49	tr 100	113.73	95.81	108.29		108.29	0.000000	0.04	2768.77	359.43	0.00
Asta 1	17408.49	tr 200	133.84	95.81	108.39		108.39	0.000000	0.05	2805.73	362.26	0.01
Asta 1	17408.49	tr 500	160.92	95.81	108.52		108.52	0.000000	0.06	2852.09	365.77	0.01
Asta 1	17301.49	tr 50	93.99	95.15	108.18		108.18	0.000000	0.04	2405.87	312.04	0.00
Asta 1	17301.49	tr 100	113.73	95.15	108.29		108.29	0.000000	0.05	2439.96	314.51	0.01
Asta 1	17301.49	tr 200	133.84	95.15	108.39		108.39	0.000000	0.05	2472.29	316.84	0.01
Asta 1	17301.49	tr 500	160.92	95.15	108.51		108.52	0.000000	0.06	2512.82	319.74	0.01
Asta 1	17183.76	tr 50	93.99	94.57	108.18		108.18	0.000000	0.04	2330.29	294.85	0.00
Asta 1	17183.76	tr 100	113.73	94.57	108.29		108.29	0.000000	0.05	2362.49	297.02	0.01
Asta 1	17183.76	tr 200	133.84	94.57	108.39		108.39	0.000000	0.06	2393.01	299.06	0.01
Asta 1	17183.76	tr 500	160.92	94.57	108.51		108.52	0.000000	0.07	2431.25	301.64	0.01
Asta 1	17115.88	tr 50	93.99	96.12	108.18		108.18	0.000001	0.09	1364.94	250.91	0.01
Asta 1	17115.88	tr 100	113.73	96.12	108.28		108.29	0.000001	0.10	1392.33	252.93	0.01
Asta 1	17115.88	tr 200	133.84	96.12	108.39		108.39	0.000001	0.12	1418.30	254.93	0.01
Asta 1	17115.88	tr 500	160.92	96.12	108.51		108.52	0.000002	0.14	1450.89	257.62	0.01
Asta 1	17032.06	tr 50	93.99	103.18	108.17	105.14	108.18	0.000015	0.18	515.42	211.77	0.04
Asta 1	17032.06	tr 100	113.73	103.18	108.28	105.21	108.28	0.000019	0.21	538.53	215.72	0.04
Asta 1	17032.06	tr 200	133.84	103.18	108.38	105.28	108.39	0.000023	0.24	560.64	219.43	0.05
Asta 1	17032.06	tr 500	160.92	103.18	108.51	105.36	108.51	0.000029	0.28	588.63	224.04	0.05
Asta 1	16910.63	tr 50	93.99	104.20	108.00		108.15	0.007211	1.91	57.82	93.16	0.63
Asta 1	16910.63	tr 100	113.73	104.20	108.08		108.26	0.007485	2.06	65.70	98.31	0.65
Asta 1	16910.63	tr 200	133.84	104.20	108.16		108.36	0.007681	2.19	73.47	102.14	0.67
Asta 1	16910.63	tr 500	160.92	104.20	108.25		108.48	0.007873	2.35	83.56	107.02	0.69
Asta 1	16828.28	tr 50	93.99	105.02	107.02	107.02	107.28	0.016550	2.47	43.56	86.80	0.94
Asta 1	16828.28	tr 100	113.73	105.02	107.09	107.09	107.39	0.015826	2.59	50.62	91.67	0.94
Asta 1	16828.28	tr 200	133.84	105.02	107.17	107.17	107.48	0.015317	2.71	57.49	96.21	0.94
Asta 1	16828.28	tr 500	160.92	105.02	107.25	107.25	107.60	0.014993	2.86	66.07	101.61	0.94
Asta 1	16751.79	tr 50	93.99	102.15	104.47	104.67	105.10	0.061848	3.60	28.01	77.89	1.69
Asta 1	16751.79	tr 100	113.73	102.15	104.53	104.73	105.22	0.059781	3.81	32.31	80.91	1.69
Asta 1	16751.79	tr 200	133.84	102.15	104.57	104.81	105.35	0.060048	4.04	36.10	83.48	1.72
Asta 1	16751.79	tr 500	160.92	102.15	104.63	104.90	105.52	0.062169	4.36	40.50	86.37	1.78
Asta 1	16678.72	tr 50	93.99	98.68	99.22	99.48	100.03	0.077731	4.24	25.12	71.84	1.97
Asta 1	16678.72	tr 100	113.73	98.68	99.27	99.55	100.19	0.079298	4.56	28.55	75.59	2.02
Asta 1	16678.72	tr 200	133.84	98.68	99.32	99.61	100.32	0.078508	4.81	32.19	79.32	2.04
Asta 1	16678.72	tr 500	160.92	98.68	99.38	99.70	100.48	0.076098	5.07	37.17	84.30	2.04
Asta 1	16601.09	tr 50	93.99	91.65	92.17	92.42	93.04	0.105578	4.15	22.98	69.21	2.19
Asta 1	16601.09	tr 100	113.73	91.65	92.21	92.50	93.20	0.102938	4.44	26.23	72.70	2.21
Asta 1	16601.09	tr 200	133.84	91.65	92.25	92.57	93.37	0.102995	4.72	29.21	75.12	2.24
Asta 1	16601.09	tr 500	160.92	91.65	92.30	92.66	93.59	0.104413	5.09	32.88	77.52	2.30
Asta 1	16501.04	tr 50	93.99	84.76	87.11	85.62	87.12	0.000214	0.55	177.84	114.91	0.13
Asta 1	16501.04	tr 100	113.73	84.76	87.20	85.71	87.22	0.000264	0.63	188.46	117.43	0.14

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 1	16501.04	tr 200	133.84	84.76	87.28	85.79	87.31	0.000313	0.70	198.65	119.80	0.16
Asta 1	16501.04	tr 500	160.92	84.76	87.39	85.89	87.42	0.000378	0.80	211.28	122.66	0.18
Asta 1	16400.98	tr 50	93.99	84.40	87.10		87.11	0.000078	0.36	270.14	151.22	0.08
Asta 1	16400.98	tr 100	113.73	84.40	87.19		87.20	0.000098	0.41	283.91	153.96	0.09
Asta 1	16400.98	tr 200	133.84	84.40	87.27		87.29	0.000118	0.47	297.06	156.53	0.10
Asta 1	16400.98	tr 500	160.92	84.40	87.38		87.39	0.000146	0.53	313.28	159.45	0.11
Asta 1	16300.92	tr 50	93.99	84.49	87.09		87.10	0.000085	0.36	269.06	158.15	0.08
Asta 1	16300.92	tr 100	113.73	84.49	87.18		87.19	0.000106	0.41	283.12	160.97	0.09
Asta 1	16300.92	tr 200	133.84	84.49	87.26		87.27	0.000128	0.46	296.53	163.62	0.10
Asta 1	16300.92	tr 500	160.92	84.49	87.36		87.38	0.000157	0.53	313.03	166.81	0.11
Asta 1	16216.06	tr 50	93.99	83.76	87.09		87.09	0.000031	0.24	388.54	179.68	0.05
Asta 1	16216.06	tr 100	113.73	83.76	87.18		87.18	0.000040	0.28	404.42	182.35	0.06
Asta 1	16216.06	tr 200	133.84	83.76	87.26		87.27	0.000049	0.32	419.52	184.85	0.07
Asta 1	16216.06	tr 500	160.92	83.76	87.36		87.37	0.000062	0.37	438.03	187.87	0.07
Asta 1	16148.23	tr 50	93.99	82.71	87.09		87.09	0.000008	0.15	618.07	215.79	0.03
Asta 1	16148.23	tr 100	113.73	82.71	87.18		87.18	0.000011	0.18	637.12	218.00	0.03
Asta 1	16148.23	tr 200	133.84	82.71	87.26		87.26	0.000014	0.21	655.17	220.08	0.04
Asta 1	16148.23	tr 500	160.92	82.71	87.36		87.36	0.000018	0.24	677.20	222.59	0.04
Asta 1	16048.26	tr 50	93.99	81.67	87.09		87.09	0.000003	0.10	908.71	260.84	0.02
Asta 1	16048.26	tr 100	113.73	81.67	87.18		87.18	0.000004	0.12	931.73	263.25	0.02
Asta 1	16048.26	tr 200	133.84	81.67	87.26		87.26	0.000005	0.14	953.52	265.51	0.02
Asta 1	16048.26	tr 500	160.92	81.67	87.36		87.36	0.000007	0.17	980.09	268.25	0.03
Asta 1	15945.45	tr 50	93.99	81.96	87.09		87.09	0.000003	0.10	936.59	288.46	0.02
Asta 1	15945.45	tr 100	113.73	81.96	87.18		87.18	0.000005	0.12	962.04	291.48	0.02
Asta 1	15945.45	tr 200	133.84	81.96	87.26		87.26	0.000006	0.14	986.14	294.32	0.02
Asta 1	15945.45	tr 500	160.92	81.96	87.36		87.36	0.000008	0.16	1015.56	297.71	0.03
Asta 1	15840.44	tr 50	93.99	85.63	87.07		87.09	0.000344	0.52	190.35	194.21	0.15
Asta 1	15840.44	tr 100	113.73	85.63	87.16		87.18	0.000394	0.58	206.86	199.12	0.17
Asta 1	15840.44	tr 200	133.84	85.63	87.24		87.26	0.000439	0.64	222.66	203.64	0.18
Asta 1	15840.44	tr 500	160.92	85.63	87.33		87.36	0.000497	0.71	242.06	208.25	0.19
Asta 1	15739.6	tr 50	93.99	86.07	86.78	86.78	86.97	0.013425	2.14	54.53	145.05	0.86
Asta 1	15739.6	tr 100	113.73	86.07	86.84	86.84	87.04	0.013312	2.25	62.99	151.16	0.87
Asta 1	15739.6	tr 200	133.84	86.07	86.89	86.89	87.11	0.013503	2.38	70.62	156.50	0.88
Asta 1	15739.6	tr 500	160.92	86.07	86.95	86.95	87.19	0.013246	2.49	81.23	162.76	0.89
Asta 1	15670.06	tr 50	93.99	82.33	84.18	83.02	84.19	0.000235	0.52	197.20	162.09	0.13
Asta 1	15670.06	tr 100	113.73	82.33	84.30	83.09	84.31	0.000263	0.58	216.50	167.50	0.14
Asta 1	15670.06	tr 200	133.84	82.33	84.40	83.15	84.42	0.000288	0.63	234.98	172.32	0.15
Asta 1	15670.06	tr 500	160.92	82.33	84.54	83.22	84.56	0.000318	0.69	258.19	177.92	0.16
Asta 1	15479.06	tr 50	93.99	82.72	84.04		84.09	0.001524	1.09	99.61	118.46	0.32
Asta 1	15479.06	tr 100	113.73	82.72	84.14		84.20	0.001602	1.18	111.89	122.88	0.33
Asta 1	15479.06	tr 200	133.84	82.72	84.24		84.31	0.001667	1.26	123.77	127.06	0.34
Asta 1	15479.06	tr 500	160.92	82.72	84.36		84.43	0.001741	1.36	138.80	132.17	0.36
Asta 1	15416.16	tr 50	93.99	82.78	83.59	83.59	83.85	0.015956	2.39	43.67	86.77	0.94
Asta 1	15416.16	tr 100	113.73	82.78	83.67	83.67	83.95	0.015125	2.52	50.76	91.11	0.93
Asta 1	15416.16	tr 200	133.84	82.78	83.74	83.74	84.05	0.014783	2.64	57.25	94.27	0.94
Asta 1	15416.16	tr 500	160.92	82.78	83.83	83.83	84.17	0.014149	2.77	66.03	98.37	0.93
Asta 1	15305.42	tr 50	93.99	80.72	82.35	81.53	82.38	0.000745	0.81	122.89	116.49	0.23
Asta 1	15305.42	tr 100	113.73	80.72	82.45	81.61	82.49	0.000819	0.90	135.49	120.10	0.24
Asta 1	15305.42	tr 200	133.84	80.72	82.55	81.68	82.60	0.000886	0.98	147.48	123.43	0.25
Asta 1	15305.42	tr 500	160.92	80.72	82.67	81.77	82.73	0.000960	1.07	162.81	127.43	0.27
Asta 1	15167.59	tr 50	93.99	76.98	82.37		82.37	0.000005	0.13	739.87	206.81	0.02
Asta 1	15167.59	tr 100	113.73	76.98	82.48		82.48	0.000006	0.15	762.80	208.93	0.02
Asta 1	15167.59	tr 200	133.84	76.98	82.58		82.58	0.000008	0.17	784.28	210.89	0.03
Asta 1	15167.59	tr 500	160.92	76.98	82.71		82.71	0.000010	0.20	811.21	213.32	0.03
Asta 1	15092.33	tr 50	93.99	75.44	82.37		82.37	0.000002	0.09	1035.73	235.02	0.01
Asta 1	15092.33	tr 100	113.73	75.44	82.48		82.48	0.000002	0.11	1061.80	237.31	0.02
Asta 1	15092.33	tr 200	133.84	75.44	82.58		82.58	0.000003	0.12	1086.19	239.43	0.02
Asta 1	15092.33	tr 500	160.92	75.44	82.71		82.71	0.000004	0.15	1116.77	242.04	0.02
Asta 1	15000.2	tr 50	93.99	75.46	82.37		82.37	0.000002	0.10	941.43	212.33	0.02
Asta 1	15000.2	tr 100	113.73	75.46	82.48		82.48	0.000003	0.12	964.96	214.40	0.02
Asta 1	15000.2	tr 200	133.84	75.46	82.58		82.58	0.000003	0.14	986.97	216.31	0.02
Asta 1	15000.2	tr 500	160.92	75.46	82.71		82.71	0.000005	0.16	1014.57	218.69	0.02
Asta 1	14900.14	tr 50	93.99	76.95	82.37		82.37	0.000007	0.17	550.46	166.07	0.03
Asta 1	14900.14	tr 100	113.73	76.95	82.47		82.48	0.000009	0.20	568.80	168.24	0.03
Asta 1	14900.14	tr 200	133.84	76.95	82.58		82.58	0.000011	0.23	586.01	170.24	0.04
Asta 1	14900.14	tr 500	160.92	76.95	82.70		82.71	0.000015	0.27	607.61	172.72	0.04

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 1	14854.49	tr 50	93.99	80.04	82.18	82.05	82.35	0.006790	2.02	55.33	88.98	0.67
Asta 1	14854.49	tr 100	113.73	80.04	82.27		82.46	0.006731	2.14	63.57	93.39	0.68
Asta 1	14854.49	tr 200	133.84	80.04	82.35		82.56	0.006722	2.26	71.44	97.48	0.69
Asta 1	14854.49	tr 500	160.92	80.04	82.46		82.68	0.006636	2.38	81.88	102.66	0.69
Asta 1	14732.42	tr 50	93.99	78.79	80.83	80.83	81.14	0.015161	2.72	39.75	64.55	0.93
Asta 1	14732.42	tr 100	113.73	78.79	80.92	80.92	81.27	0.014792	2.87	45.82	67.60	0.93
Asta 1	14732.42	tr 200	133.84	78.79	81.01	81.01	81.38	0.014355	3.00	51.91	70.53	0.93
Asta 1	14732.42	tr 500	160.92	78.79	81.11	81.11	81.53	0.013927	3.15	59.75	74.13	0.93
Asta 2	14581.45	tr 50	191.37	72.85	74.79	74.19	74.92	0.002417	1.85	128.86	107.02	0.43
Asta 2	14581.45	tr 100	227.93	72.85	74.95	74.31	75.10	0.002405	1.95	146.41	112.41	0.44
Asta 2	14581.45	tr 200	264.85	72.85	75.10	74.42	75.26	0.002393	2.04	163.46	117.34	0.44
Asta 2	14581.45	tr 500	314.04	72.85	75.28	74.56	75.45	0.002375	2.14	185.41	123.40	0.45
Asta 2	14500	tr 50	191.37	72.60	74.44		74.66	0.004262	2.36	100.04	86.54	0.57
Asta 2	14500	tr 100	227.93	72.60	74.59		74.83	0.004306	2.51	113.15	91.07	0.58
Asta 2	14500	tr 200	264.85	72.60	74.73		74.99	0.004315	2.63	126.08	95.26	0.59
Asta 2	14500	tr 500	314.04	72.60	74.90		75.19	0.004294	2.77	142.99	100.49	0.60
Asta 2	14400	tr 50	191.37	72.16	73.88		74.15	0.005899	2.62	88.31	81.35	0.66
Asta 2	14400	tr 100	227.93	72.16	74.06		74.34	0.005429	2.69	103.22	86.66	0.65
Asta 2	14400	tr 200	264.85	72.16	74.22		74.52	0.005056	2.76	118.08	91.64	0.63
Asta 2	14400	tr 500	314.04	72.16	74.42		74.73	0.004729	2.85	137.03	97.81	0.62
Asta 2	14315	tr 50	191.37	71.60	73.75		73.86	0.001665	1.59	139.94	102.67	0.36
Asta 2	14315	tr 100	227.93	71.60	73.94		74.06	0.001633	1.67	159.76	108.06	0.37
Asta 2	14315	tr 200	264.85	71.60	74.12		74.25	0.001603	1.75	179.15	112.92	0.37
Asta 2	14315	tr 500	314.04	71.60	74.32		74.47	0.001591	1.85	203.20	118.83	0.37
Asta 2	14200	tr 50	191.37	71.21	73.49		73.64	0.002217	1.97	119.81	83.55	0.43
Asta 2	14200	tr 100	227.93	71.21	73.67		73.84	0.002235	2.09	135.44	87.53	0.43
Asta 2	14200	tr 200	264.85	71.21	73.84		74.02	0.002240	2.19	150.75	91.17	0.44
Asta 2	14200	tr 500	314.04	71.21	74.04		74.24	0.002289	2.33	169.11	95.35	0.45
Asta 2	14100.13	tr 50	191.37	70.82	72.44	72.44	73.00	0.048057	2.91	64.16	61.67	0.75
Asta 2	14100.13	tr 100	227.93	70.82	72.60	72.60	73.20	0.044670	2.99	73.84	65.10	0.74
Asta 2	14100.13	tr 200	264.85	70.82	72.73	72.73	73.38	0.042639	3.08	82.88	68.07	0.73
Asta 2	14100.13	tr 500	314.04	70.82	72.94	72.94	73.61	0.036717	3.07	97.51	72.63	0.69
Asta 2	13980.6	tr 50	191.37	69.24	72.55	70.69	72.59	0.000486	0.92	230.92	110.68	0.18
Asta 2	13980.6	tr 100	227.93	69.24	72.74	70.82	72.78	0.000541	1.01	251.88	114.12	0.19
Asta 2	13980.6	tr 200	264.85	69.24	72.91	70.93	72.96	0.000591	1.10	271.65	117.27	0.20
Asta 2	13980.6	tr 500	314.04	69.24	73.12		73.18	0.000649	1.20	296.70	121.14	0.21
Asta 2	13900	tr 50	191.37	69.51	72.50		72.55	0.000486	0.99	210.05	108.50	0.20
Asta 2	13900	tr 100	227.93	69.51	72.68		72.74	0.000535	1.09	229.96	112.01	0.22
Asta 2	13900	tr 200	264.85	69.51	72.85		72.91	0.000579	1.19	248.69	114.88	0.23
Asta 2	13900	tr 500	314.04	69.51	73.05		73.13	0.000632	1.30	272.37	118.41	0.24
Asta 2	13800	tr 50	191.37	70.44	71.89	71.89	72.37	0.012486	3.50	65.51	67.41	0.94
Asta 2	13800	tr 100	227.93	70.44	72.02	72.02	72.55	0.012410	3.70	74.11	70.47	0.95
Asta 2	13800	tr 200	264.85	70.44	72.14	72.14	72.71	0.012007	3.84	83.30	73.61	0.95
Asta 2	13800	tr 500	314.04	70.44	72.29	72.29	72.91	0.011881	4.04	94.38	77.31	0.96
Asta 2	13700	tr 50	191.37	67.73	68.85	69.22	70.03	0.053217	4.91	40.96	56.52	1.69
Asta 2	13700	tr 100	227.93	67.73	68.96	69.36	70.24	0.051260	5.13	47.12	59.20	1.66
Asta 2	13700	tr 200	264.85	67.73	69.05	69.49	70.45	0.050870	5.38	52.69	61.44	1.67
Asta 2	13700	tr 500	314.04	67.73	69.17	69.65	70.69	0.048958	5.62	60.47	64.49	1.65
Asta 2	13600	tr 50	191.37	65.00	69.78	66.26	69.79	0.000047	0.40	502.69	162.54	0.07
Asta 2	13600	tr 100	227.93	65.00	69.95	66.37	69.96	0.000057	0.45	530.01	166.10	0.07
Asta 2	13600	tr 200	264.85	65.00	70.10	66.48	70.11	0.000068	0.50	555.89	169.42	0.08
Asta 2	13600	tr 500	314.04	65.00	70.29	66.61	70.30	0.000082	0.56	587.56	173.38	0.09
Asta 2	13500	tr 50	191.37	63.86	69.78		69.78	0.000019	0.26	756.97	202.53	0.04
Asta 2	13500	tr 100	227.93	63.86	69.95		69.95	0.000024	0.29	790.99	206.14	0.05
Asta 2	13500	tr 200	264.85	63.86	70.10		70.11	0.000029	0.33	823.10	209.50	0.05
Asta 2	13500	tr 500	314.04	63.86	70.29		70.29	0.000035	0.37	862.25	213.52	0.06
Asta 2	13400	tr 50	191.37	65.94	69.77		69.78	0.000086	0.46	422.36	168.88	0.09
Asta 2	13400	tr 100	227.93	65.94	69.93		69.95	0.000100	0.52	450.36	173.09	0.10
Asta 2	13400	tr 200	264.85	65.94	70.08		70.10	0.000114	0.57	476.90	176.59	0.10
Asta 2	13400	tr 500	314.04	65.94	70.27		70.29	0.000132	0.64	509.29	180.50	0.11
Asta 2	13307.89	tr 50	191.37	67.97	69.28	69.28	69.71	0.012833	3.17	69.71	81.36	0.93
Asta 2	13307.89	tr 100	227.93	67.97	69.39	69.39	69.87	0.012492	3.33	79.66	85.53	0.93
Asta 2	13307.89	tr 200	264.85	67.97	69.51	69.51	70.02	0.012215	3.48	89.38	89.54	0.93
Asta 2	13307.89	tr 500	314.04	67.97	69.65	69.65	70.19	0.011528	3.61	102.86	93.89	0.92
Asta 2	13245.55	tr 50	191.37	66.99	68.32	68.38	68.83	0.015435	3.58	64.71	75.65	1.03
Asta 2	13245.55	tr 100	227.93	66.99	68.43	68.50	68.99	0.015636	3.81	72.79	78.56	1.05
Asta 2	13245.55	tr 200	264.85	66.99	68.53	68.61	69.15	0.015715	4.00	80.67	81.08	1.06

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 2	13245.55	tr 500	314.04	66.99	68.64	68.75	69.34	0.016066	4.26	90.17	84.08	1.09
Asta 2	13132.53	tr 50	191.37	61.95	65.88	63.44	65.90	0.000233	0.74	270.70	107.15	0.14
Asta 2	13132.53	tr 100	227.93	61.95	66.03	63.58	66.07	0.000279	0.84	287.77	109.58	0.15
Asta 2	13132.53	tr 200	264.85	61.95	66.18	63.71	66.22	0.000323	0.92	303.76	111.78	0.16
Asta 2	13132.53	tr 500	314.04	61.95	66.36	63.86	66.41	0.000381	1.04	323.76	114.48	0.18
Asta 2	13042.78	tr 50	191.37	62.17	65.86		65.88	0.000173	0.64	306.50	126.64	0.12
Asta 2	13042.78	tr 100	227.93	62.17	66.02		66.04	0.000206	0.72	326.40	129.48	0.13
Asta 2	13042.78	tr 200	264.85	62.17	66.16		66.19	0.000238	0.80	345.02	131.97	0.14
Asta 2	13042.78	tr 500	314.04	62.17	66.34		66.38	0.000279	0.89	368.31	135.01	0.16
Asta 2	12996.71	tr 50	191.37	61.43	65.87		65.88	0.000073	0.43	463.12	159.79	0.07
Asta 2	12996.71	tr 100	227.93	61.43	66.02		66.03	0.000088	0.49	488.35	162.81	0.08
Asta 2	12996.71	tr 200	264.85	61.43	66.17		66.18	0.000104	0.54	511.91	165.37	0.09
Asta 2	12996.71	tr 500	314.04	61.43	66.34		66.36	0.000124	0.61	541.29	168.51	0.10
Asta 2	12809.14	tr 50	191.37	60.18	65.87		65.87	0.000014	0.25	783.44	206.85	0.04
Asta 2	12809.14	tr 100	227.93	60.18	66.02		66.03	0.000018	0.28	815.98	209.83	0.04
Asta 2	12809.14	tr 200	264.85	60.18	66.17		66.17	0.000022	0.32	846.28	212.58	0.05
Asta 2	12809.14	tr 500	314.04	60.18	66.34		66.35	0.000027	0.36	883.97	215.95	0.05
Asta 2	12602.11	tr 50	191.37	63.01	65.83		65.86	0.000337	0.81	253.25	136.19	0.17
Asta 2	12602.11	tr 100	227.93	63.01	65.97		66.01	0.000382	0.90	273.63	139.77	0.18
Asta 2	12602.11	tr 200	264.85	63.01	66.11		66.15	0.000425	0.98	292.69	143.02	0.19
Asta 2	12602.11	tr 500	314.04	63.01	66.27		66.33	0.000477	1.08	316.54	146.97	0.21
Asta 2	12474.53	tr 50	191.37	63.94	65.63		65.75	0.002700	1.72	128.25	116.66	0.44
Asta 2	12474.53	tr 100	227.93	63.94	65.75		65.90	0.002805	1.85	143.12	121.29	0.46
Asta 2	12474.53	tr 200	264.85	63.94	65.86		66.03	0.002907	1.96	157.14	125.38	0.47
Asta 2	12474.53	tr 500	314.04	63.94	66.00		66.19	0.003005	2.10	175.01	129.63	0.49
Asta 2	12400	tr 50	191.37	63.86	64.98	64.98	65.35	0.013480	3.09	76.16	103.05	0.94
Asta 2	12400	tr 100	227.93	63.86	65.08	65.08	65.48	0.013299	3.24	86.43	107.00	0.95
Asta 2	12400	tr 200	264.85	63.86	65.17	65.17	65.60	0.012961	3.37	96.85	110.87	0.95
Asta 2	12400	tr 500	314.04	63.86	65.29	65.29	65.76	0.012749	3.54	109.75	115.48	0.95
Asta 2	12318.67	tr 50	191.37	61.56	62.47	62.77	63.42	0.047632	4.88	47.33	81.52	1.69
Asta 2	12318.67	tr 100	227.93	61.56	62.55	62.87	63.58	0.046360	5.11	54.07	85.36	1.70
Asta 2	12318.67	tr 200	264.85	61.56	62.62	62.97	63.74	0.045821	5.35	60.36	88.62	1.71
Asta 2	12318.67	tr 500	314.04	61.56	62.71	63.09	63.92	0.044599	5.59	68.63	92.22	1.71
Asta 2	12247.65	tr 50	191.37	57.51	58.40	58.76	59.59	0.060663	5.55	41.92	71.03	1.92
Asta 2	12247.65	tr 100	227.93	57.51	58.47	58.88	59.80	0.060812	5.88	47.29	73.63	1.95
Asta 2	12247.65	tr 200	264.85	57.51	58.54	58.99	59.99	0.060432	6.15	52.62	76.16	1.96
Asta 2	12247.65	tr 500	314.04	57.51	58.63	59.12	60.22	0.060287	6.49	59.29	79.05	1.99
Asta 2	12155.08	tr 50	191.37	54.62	59.09	55.95	59.10	0.000071	0.48	411.98	141.61	0.08
Asta 2	12155.08	tr 100	227.93	54.62	59.26	56.07	59.28	0.000084	0.55	437.53	144.64	0.09
Asta 2	12155.08	tr 200	264.85	54.62	59.43	56.19	59.45	0.000097	0.60	461.88	147.43	0.10
Asta 2	12155.08	tr 500	314.04	54.62	59.64	56.32	59.66	0.000113	0.67	492.65	150.94	0.11
Asta 2	12043.89	tr 50	191.37	55.91	59.05		59.08	0.000275	0.77	264.21	128.21	0.15
Asta 2	12043.89	tr 100	227.93	55.91	59.23		59.26	0.000309	0.85	286.66	131.99	0.17
Asta 2	12043.89	tr 200	264.85	55.91	59.39		59.43	0.000340	0.93	308.20	135.51	0.18
Asta 2	12043.89	tr 500	314.04	55.91	59.59		59.64	0.000376	1.02	335.62	139.87	0.19
Asta 2	11966.74	tr 50	191.37	55.10	59.04		59.06	0.000145	0.63	324.58	126.74	0.11
Asta 2	11966.74	tr 100	227.93	55.10	59.22		59.24	0.000171	0.71	346.53	129.83	0.12
Asta 2	11966.74	tr 200	264.85	55.10	59.38		59.41	0.000197	0.78	367.48	132.71	0.13
Asta 2	11966.74	tr 500	314.04	55.10	59.57		59.61	0.000228	0.88	394.03	136.35	0.15
Asta 2	11900	tr 50	191.37	53.70	59.04		59.06	0.000064	0.48	411.89	122.95	0.08
Asta 2	11900	tr 100	227.93	53.70	59.22		59.23	0.000079	0.55	433.14	125.57	0.09
Asta 2	11900	tr 200	264.85	53.70	59.37		59.39	0.000094	0.61	453.35	127.89	0.09
Asta 2	11900	tr 500	314.04	53.70	59.57		59.60	0.000114	0.69	478.84	130.67	0.10
Asta 2	11800	tr 50	191.37	57.07	58.63		59.00	0.008939	3.10	75.94	74.59	0.81
Asta 2	11800	tr 100	227.93	57.07	58.74	58.64	59.16	0.009457	3.35	84.24	77.36	0.84
Asta 2	11800	tr 200	264.85	57.07	58.84	58.76	59.32	0.009985	3.57	91.86	79.68	0.87
Asta 2	11800	tr 500	314.04	57.07	58.96	58.91	59.51	0.010533	3.84	101.59	82.32	0.91
Asta 2	11700	tr 50	191.37	56.37	57.53	57.53	57.91	0.013629	3.12	75.07	99.84	0.95
Asta 2	11700	tr 100	227.93	56.37	57.63	57.63	58.04	0.013441	3.28	85.26	103.93	0.95
Asta 2	11700	tr 200	264.85	56.37	57.73	57.73	58.17	0.013032	3.41	95.77	108.01	0.95
Asta 2	11700	tr 500	314.04	56.37	57.85	57.85	58.32	0.012850	3.58	108.53	112.83	0.96
Asta 2	11600	tr 50	191.37	51.16	51.72	52.24	54.19	0.224259	7.42	28.91	76.53	3.36
Asta 2	11600	tr 100	227.93	51.16	51.78	52.34	54.40	0.208296	7.70	33.45	80.04	3.30
Asta 2	11600	tr 200	264.85	51.16	51.83	52.43	54.63	0.199139	7.99	37.69	83.20	3.28
Asta 2	11600	tr 500	314.04	51.16	51.90	52.54	54.86	0.185033	8.27	43.53	87.36	3.22
Asta 2	11500	tr 50	191.37	47.64	49.61	48.58	49.65	0.000626	0.91	235.94	179.54	0.22

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 2	11500	tr 100	227.93	47.64	49.74	48.67	49.79	0.000669	0.99	260.31	185.19	0.23
Asta 2	11500	tr 200	264.85	47.64	49.87	48.75	49.92	0.000705	1.06	283.76	190.47	0.24
Asta 2	11500	tr 500	314.04	47.64	50.01	48.85	50.07	0.000756	1.15	312.04	196.49	0.25
Asta 2	11431.99	tr 50	191.37	47.41	49.58		49.61	0.000439	0.81	262.83	180.84	0.19
Asta 2	11431.99	tr 100	227.93	47.41	49.71		49.75	0.000484	0.89	286.82	185.75	0.20
Asta 2	11431.99	tr 200	264.85	47.41	49.83		49.87	0.000523	0.96	309.85	190.34	0.21
Asta 2	11431.99	tr 500	314.04	47.41	49.98		50.03	0.000576	1.05	337.41	195.69	0.22
Asta 2	11289.16	tr 50	191.37	47.87	49.43		49.50	0.001656	1.26	171.45	166.25	0.34
Asta 2	11289.16	tr 100	227.93	47.87	49.54		49.62	0.001713	1.36	191.38	172.54	0.35
Asta 2	11289.16	tr 200	264.85	47.87	49.65		49.74	0.001750	1.44	210.99	178.44	0.36
Asta 2	11289.16	tr 500	314.04	47.87	49.78		49.89	0.001826	1.55	234.09	184.36	0.37
Asta 2	11193.1	tr 50	191.37	47.89	48.88	48.83	49.14	0.011824	2.54	89.09	138.12	0.85
Asta 2	11193.1	tr 100	227.93	47.89	48.94	48.91	49.25	0.012670	2.75	98.19	142.28	0.89
Asta 2	11193.1	tr 200	264.85	47.89	48.99	48.99	49.35	0.013881	2.98	105.58	145.58	0.94
Asta 2	11193.1	tr 500	314.04	47.89	49.09	49.09	49.48	0.013661	3.14	119.56	151.62	0.95
Asta 2	11085.46	tr 50	191.37	46.96	47.99		48.16	0.006883	2.01	113.50	168.85	0.66
Asta 2	11085.46	tr 100	227.93	46.96	48.10		48.27	0.006358	2.07	131.61	176.24	0.64
Asta 2	11085.46	tr 200	264.85	46.96	48.21		48.38	0.005698	2.10	151.71	184.27	0.62
Asta 2	11085.46	tr 500	314.04	46.96	48.33	48.07	48.51	0.005451	2.18	173.40	192.15	0.61
Asta 2	11000	tr 50	191.37	45.87	48.01		48.03	0.000389	0.80	296.52	207.08	0.18
Asta 2	11000	tr 100	227.93	45.87	48.10		48.13	0.000458	0.90	316.71	212.11	0.19
Asta 2	11000	tr 200	264.85	45.87	48.20		48.24	0.000510	0.98	338.94	217.52	0.21
Asta 2	11000	tr 500	314.04	45.87	48.31		48.35	0.000592	1.09	362.66	222.86	0.22
Asta 2	10900	tr 50	191.37	45.33	47.98		48.00	0.000190	0.62	356.59	204.89	0.13
Asta 2	10900	tr 100	227.93	45.33	48.07		48.10	0.000232	0.70	375.53	208.71	0.14
Asta 2	10900	tr 200	264.85	45.33	48.17		48.20	0.000269	0.77	396.50	212.80	0.15
Asta 2	10900	tr 500	314.04	45.33	48.28		48.31	0.000324	0.87	418.30	216.59	0.17
Asta 2	10800	tr 50	191.37	45.43	47.96		47.98	0.000235	0.68	333.27	199.87	0.14
Asta 2	10800	tr 100	227.93	45.43	48.05		48.07	0.000289	0.77	350.63	203.37	0.16
Asta 2	10800	tr 200	264.85	45.43	48.14		48.17	0.000335	0.85	370.07	207.22	0.17
Asta 2	10800	tr 500	314.04	45.43	48.23		48.27	0.000406	0.96	389.74	210.68	0.19
Asta 2	10700	tr 50	191.37	45.56	47.93		47.95	0.000304	0.75	305.03	194.59	0.16
Asta 2	10700	tr 100	227.93	45.56	48.01		48.04	0.000375	0.85	320.48	198.15	0.18
Asta 2	10700	tr 200	264.85	45.56	48.10		48.13	0.000436	0.94	338.15	201.97	0.19
Asta 2	10700	tr 500	314.04	45.56	48.18		48.22	0.000533	1.06	355.22	205.48	0.21
Asta 2	10600	tr 50	191.37	45.59	47.89		47.92	0.000398	0.85	274.37	180.50	0.18
Asta 2	10600	tr 100	227.93	45.59	47.96		47.99	0.000498	0.96	286.79	183.20	0.20
Asta 2	10600	tr 200	264.85	45.59	48.04		48.08	0.000584	1.07	301.42	186.35	0.22
Asta 2	10600	tr 500	314.04	45.59	48.10		48.16	0.000729	1.22	314.26	189.06	0.25
Asta 2	10500	tr 50	191.37	45.33	47.86		47.88	0.000250	0.70	325.73	197.14	0.15
Asta 2	10500	tr 100	227.93	45.33	47.92		47.95	0.000320	0.81	337.92	199.71	0.17
Asta 2	10500	tr 200	264.85	45.33	48.00		48.03	0.000383	0.90	352.62	202.57	0.18
Asta 2	10500	tr 500	314.04	45.33	48.06		48.10	0.000490	1.04	364.40	204.83	0.21
Asta 2	10400	tr 50	191.37	44.83	47.86		47.87	0.000087	0.48	506.33	257.60	0.09
Asta 2	10400	tr 100	227.93	44.83	47.92		47.93	0.000113	0.56	521.85	260.28	0.10
Asta 2	10400	tr 200	264.85	44.83	47.99		48.00	0.000138	0.63	540.65	263.48	0.11
Asta 2	10400	tr 500	314.04	44.83	48.04		48.06	0.000180	0.73	555.37	265.96	0.13
Asta 2	10303.44	tr 50	191.37	44.20	47.86	44.97	47.86	0.000016	0.23	986.11	417.63	0.04
Asta 2	10303.44	tr 100	227.93	44.20	47.92	45.04	47.92	0.000021	0.27	1011.42	421.38	0.05
Asta 2	10303.44	tr 200	264.85	44.20	47.99	45.10	47.99	0.000026	0.30	1042.02	425.79	0.05
Asta 2	10303.44	tr 500	314.04	44.20	48.05	45.18	48.05	0.000035	0.35	1066.09	429.46	0.06
Asta 2	10276.45		Culvert									
Asta 2	10261.48	tr 50	191.37	43.89	44.78		44.96	0.008963	2.08	111.98	200.40	0.73
Asta 2	10261.48	tr 100	227.93	43.89	44.85		45.04	0.009052	2.21	126.30	208.94	0.75
Asta 2	10261.48	tr 200	264.85	43.89	44.92		45.13	0.009041	2.32	140.56	217.05	0.75
Asta 2	10261.48	tr 500	314.04	43.89	45.00		45.23	0.009080	2.45	158.36	226.42	0.77
Asta 2	10178.65	tr 50	212.15	42.85	43.69	43.69	43.98	0.015311	2.51	93.11	165.23	0.94
Asta 2	10178.65	tr 100	251.77	42.85	43.76	43.76	44.08	0.014725	2.64	106.27	172.72	0.94
Asta 2	10178.65	tr 200	291.68	42.85	43.84	43.84	44.18	0.014231	2.75	119.15	179.70	0.93
Asta 2	10178.65	tr 500	344.73	42.85	43.93	43.93	44.30	0.013657	2.87	135.87	188.18	0.93
Asta 2	10100	tr 50	212.15	41.32	42.19	42.26	42.58	0.020729	3.01	80.99	143.59	1.10
Asta 2	10100	tr 100	251.77	41.32	42.26	42.34	42.70	0.021202	3.21	90.62	149.55	1.13
Asta 2	10100	tr 200	291.68	41.32	42.32	42.42	42.80	0.021644	3.40	99.80	155.02	1.15
Asta 2	10100	tr 500	344.73	41.32	42.39	42.51	42.93	0.021611	3.60	112.32	161.82	1.17
Asta 2	10000	tr 50	212.15	40.44	41.83	41.39	41.93	0.002737	1.52	160.43	173.21	0.43
Asta 2	10000	tr 100	251.77	40.44	41.95	41.47	42.06	0.002710	1.61	181.34	180.29	0.44

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 2	10000	tr 200	291.68	40.44	42.05	41.55	42.17	0.002695	1.68	201.34	186.82	0.44
Asta 2	10000	tr 500	344.73	40.44	42.19	41.64	42.32	0.002687	1.78	226.63	194.89	0.45
Asta 2	9906.039	tr 50	212.15	40.09	41.66		41.73	0.001542	1.30	199.95	192.82	0.34
Asta 2	9906.039	tr 100	251.77	40.09	41.78		41.85	0.001586	1.38	222.99	199.25	0.35
Asta 2	9906.039	tr 200	291.68	40.09	41.89		41.97	0.001628	1.46	244.81	205.03	0.35
Asta 2	9906.039	tr 500	344.73	40.09	42.02		42.11	0.001679	1.56	272.13	212.04	0.36
Asta 2	9794.673	tr 50	212.15	39.91	41.50		41.56	0.001393	1.16	203.35	197.15	0.31
Asta 2	9794.673	tr 100	251.77	39.91	41.61		41.68	0.001464	1.25	225.57	205.15	0.33
Asta 2	9794.673	tr 200	291.68	39.91	41.71		41.79	0.001528	1.34	246.65	212.28	0.34
Asta 2	9794.673	tr 500	344.73	39.91	41.84		41.93	0.001601	1.44	273.20	220.42	0.35
Asta 2	9701.429	tr 50	212.15	39.77	41.40		41.45	0.000993	1.01	238.88	225.75	0.27
Asta 2	9701.429	tr 100	251.77	39.77	41.51		41.56	0.001066	1.10	262.99	234.00	0.28
Asta 2	9701.429	tr 200	291.68	39.77	41.60		41.67	0.001132	1.18	285.82	241.57	0.29
Asta 2	9701.429	tr 500	344.73	39.77	41.72		41.79	0.001209	1.27	314.63	251.11	0.31
Asta 2	9600	tr 50	212.15	39.98	41.18		41.28	0.003255	1.49	166.44	221.91	0.46
Asta 2	9600	tr 100	251.77	39.98	41.28		41.38	0.003252	1.58	187.84	230.65	0.47
Asta 2	9600	tr 200	291.68	39.98	41.36		41.48	0.003265	1.66	208.12	238.64	0.47
Asta 2	9600	tr 500	344.73	39.98	41.47		41.60	0.003272	1.75	234.07	248.54	0.48
Asta 2	9500	tr 50	212.15	39.43	40.35	40.35	40.65	0.014739	2.66	92.95	157.83	0.94
Asta 2	9500	tr 100	251.77	39.43	40.43	40.43	40.76	0.014506	2.80	105.44	164.82	0.94
Asta 2	9500	tr 200	291.68	39.43	40.51	40.51	40.86	0.014110	2.91	118.14	171.64	0.94
Asta 2	9500	tr 500	344.73	39.43	40.60	40.60	40.98	0.013716	3.05	134.44	180.40	0.94
Asta 2	9404.936	tr 50	212.15	38.34	39.96	39.31	40.02	0.001621	1.36	199.91	196.14	0.35
Asta 2	9404.936	tr 100	251.77	38.34	40.09	39.40	40.16	0.001617	1.43	226.20	205.87	0.35
Asta 2	9404.936	tr 200	291.68	38.34	40.21	39.48	40.29	0.001609	1.50	251.63	214.08	0.35
Asta 2	9404.936	tr 500	344.73	38.34	40.36	39.58	40.44	0.001594	1.57	284.21	223.74	0.36
Asta 2	9300.894	tr 50	212.15	38.09	39.83		39.88	0.001141	1.16	219.75	199.20	0.29
Asta 2	9300.894	tr 100	251.77	38.09	39.96		40.02	0.001165	1.23	245.92	206.07	0.30
Asta 2	9300.894	tr 200	291.68	38.09	40.08		40.14	0.001186	1.30	270.98	212.45	0.30
Asta 2	9300.894	tr 500	344.73	38.09	40.22		40.30	0.001210	1.38	302.87	221.05	0.31
Asta 2	9190.55	tr 50	212.15	38.19	39.54		39.66	0.003747	1.78	143.11	162.05	0.51
Asta 2	9190.55	tr 100	251.77	38.19	39.67		39.80	0.003518	1.84	164.63	168.84	0.50
Asta 2	9190.55	tr 200	291.68	38.19	39.79		39.93	0.003367	1.90	185.10	175.05	0.50
Asta 2	9190.55	tr 500	344.73	38.19	39.93		40.08	0.003222	1.98	211.14	182.65	0.49
Asta 2	9088.166	tr 50	212.15	37.46	39.44		39.49	0.000816	1.02	228.00	173.16	0.25
Asta 2	9088.166	tr 100	251.77	37.46	39.56		39.62	0.000882	1.11	249.81	177.94	0.26
Asta 2	9088.166	tr 200	291.68	37.46	39.68		39.74	0.000943	1.20	270.32	182.29	0.27
Asta 2	9088.166	tr 500	344.73	37.46	39.82		39.89	0.001012	1.30	296.18	187.62	0.29
Asta 2	8996.421	tr 50	212.15	37.87	39.10	38.92	39.31	0.006470	2.17	107.36	132.95	0.65
Asta 2	8996.421	tr 100	251.77	37.87	39.19		39.43	0.006395	2.28	120.48	137.72	0.66
Asta 2	8996.421	tr 200	291.68	37.87	39.28		39.54	0.006460	2.40	132.14	141.75	0.67
Asta 2	8996.421	tr 500	344.73	37.87	39.38		39.68	0.006494	2.53	147.08	146.76	0.68
Asta 2	8900	tr 50	212.15	36.95	38.03	38.03	38.40	0.014207	2.89	82.69	113.84	0.94
Asta 2	8900	tr 100	251.77	36.95	38.13	38.13	38.54	0.013895	3.04	93.85	119.40	0.95
Asta 2	8900	tr 200	291.68	36.95	38.23	38.23	38.66	0.013261	3.15	105.76	125.13	0.94
Asta 2	8900	tr 500	344.73	36.95	38.34	38.34	38.81	0.012850	3.31	120.25	131.10	0.94
Asta 2	8800	tr 50	212.15	34.98	37.10	35.96	37.14	0.000534	0.90	267.25	183.78	0.21
Asta 2	8800	tr 100	251.77	34.98	37.25	36.05	37.29	0.000567	0.97	294.55	188.80	0.21
Asta 2	8800	tr 200	291.68	34.98	37.38	36.13	37.43	0.000596	1.04	320.31	193.31	0.22
Asta 2	8800	tr 500	344.73	34.98	37.55	36.24	37.60	0.000631	1.12	352.28	198.55	0.23
Asta 2	8700	tr 50	212.15	34.92	37.03		37.08	0.000729	1.01	231.26	164.18	0.24
Asta 2	8700	tr 100	251.77	34.92	37.17		37.22	0.000777	1.10	254.64	169.21	0.25
Asta 2	8700	tr 200	291.68	34.92	37.30		37.36	0.000821	1.18	276.76	173.97	0.26
Asta 2	8700	tr 500	344.73	34.92	37.45		37.53	0.000873	1.27	304.31	179.74	0.27
Asta 2	8600	tr 50	212.15	35.13	36.87		36.96	0.001788	1.47	171.95	151.70	0.37
Asta 2	8600	tr 100	251.77	35.13	37.01		37.11	0.001839	1.57	192.23	157.83	0.38
Asta 2	8600	tr 200	291.68	35.13	37.13		37.24	0.001880	1.65	211.62	163.01	0.38
Asta 2	8600	tr 500	344.73	35.13	37.27		37.40	0.001931	1.76	235.91	169.21	0.39
Asta 2	8500	tr 50	212.15	35.10	36.70		36.78	0.001844	1.43	180.08	169.51	0.37
Asta 2	8500	tr 100	251.77	35.10	36.83		36.92	0.001857	1.51	202.43	175.96	0.37
Asta 2	8500	tr 200	291.68	35.10	36.95		37.05	0.001869	1.59	223.85	181.87	0.38
Asta 2	8500	tr 500	344.73	35.10	37.09		37.20	0.001881	1.68	250.71	187.96	0.39
Asta 2	8400	tr 50	212.15	34.91	36.45		36.56	0.002564	1.59	155.57	153.47	0.43
Asta 2	8400	tr 100	251.77	34.91	36.58		36.70	0.002582	1.69	175.02	159.95	0.44
Asta 2	8400	tr 200	291.68	34.91	36.69		36.82	0.002598	1.78	193.75	165.93	0.44
Asta 2	8400	tr 500	344.73	34.91	36.83		36.98	0.002611	1.88	217.43	172.49	0.45

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 2	8300	tr 50	212.15	34.60	36.00		36.19	0.005403	2.22	116.91	128.16	0.61
Asta 2	8300	tr 100	251.77	34.60	36.12		36.33	0.005400	2.34	131.91	133.66	0.62
Asta 2	8300	tr 200	291.68	34.60	36.23		36.45	0.005369	2.45	146.59	138.62	0.63
Asta 2	8300	tr 500	344.73	34.60	36.36		36.61	0.005320	2.58	165.27	144.19	0.63
Asta 2	8200	tr 50	212.15	34.05	35.32	35.14	35.56	0.007471	2.33	103.40	123.67	0.70
Asta 2	8200	tr 100	251.77	34.05	35.42	35.24	35.69	0.007569	2.48	116.05	128.96	0.72
Asta 2	8200	tr 200	291.68	34.05	35.51	35.34	35.80	0.007772	2.63	127.52	133.58	0.74
Asta 2	8200	tr 500	344.73	34.05	35.61	35.45	35.95	0.008052	2.82	141.64	138.74	0.76
Asta 2	8099.817	tr 50	212.15	33.15	34.21	34.21	34.55	0.013777	2.94	87.24	126.22	0.94
Asta 2	8099.817	tr 100	251.77	33.15	34.30	34.30	34.68	0.013751	3.11	98.48	131.55	0.95
Asta 2	8099.817	tr 200	291.68	33.15	34.38	34.38	34.79	0.013435	3.23	110.17	136.83	0.95
Asta 2	8099.817	tr 500	344.73	33.15	34.49	34.49	34.93	0.013013	3.37	125.30	142.88	0.95
Asta 2	7998.816	tr 50	212.15	32.06	33.35	33.03	33.48	0.004046	1.77	138.51	164.43	0.52
Asta 2	7998.816	tr 100	251.77	32.06	33.44	33.12	33.60	0.004178	1.90	154.30	169.54	0.54
Asta 2	7998.816	tr 200	291.68	32.06	33.53	33.20	33.70	0.004272	2.01	169.65	174.38	0.55
Asta 2	7998.816	tr 500	344.73	32.06	33.64	33.29	33.83	0.004435	2.15	188.15	180.01	0.57
Asta 2	7886.218	tr 50	212.15	31.56	32.49	32.44	32.75	0.011915	2.53	100.01	161.35	0.85
Asta 2	7886.218	tr 100	251.77	31.56	32.57	32.52	32.85	0.011436	2.64	114.63	169.81	0.85
Asta 2	7886.218	tr 200	291.68	31.56	32.65	32.60	32.95	0.011317	2.75	127.59	175.81	0.86
Asta 2	7886.218	tr 500	344.73	31.56	32.75	32.69	33.07	0.010888	2.87	145.44	183.48	0.85
Asta 2	7785.472	tr 50	212.15	30.25	31.24	31.20	31.52	0.012372	2.68	95.60	146.28	0.88
Asta 2	7785.472	tr 100	251.77	30.25	31.31	31.29	31.63	0.012849	2.87	106.33	151.23	0.91
Asta 2	7785.472	tr 200	291.68	30.25	31.38	31.36	31.73	0.012845	3.01	117.88	156.37	0.92
Asta 2	7785.472	tr 500	344.73	30.25	31.47	31.46	31.86	0.013255	3.21	131.03	161.74	0.94
Asta 2	7700	tr 50	212.15	29.04	30.02	30.02	30.35	0.015100	2.77	87.80	137.48	0.96
Asta 2	7700	tr 100	251.77	29.04	30.11	30.11	30.47	0.014396	2.89	100.50	143.66	0.95
Asta 2	7700	tr 200	291.68	29.04	30.19	30.19	30.57	0.014290	3.03	111.63	148.87	0.96
Asta 2	7700	tr 500	344.73	29.04	30.29	30.29	30.71	0.013743	3.17	127.21	155.86	0.95
Asta 2	7600	tr 50	212.15	27.62	29.66	28.66	29.71	0.000757	1.04	236.83	180.54	0.24
Asta 2	7600	tr 100	251.77	27.62	29.81	28.75	29.87	0.000774	1.11	265.27	187.83	0.25
Asta 2	7600	tr 200	291.68	27.62	29.96	28.84	30.01	0.000790	1.17	292.50	194.55	0.25
Asta 2	7600	tr 500	344.73	27.62	30.13	28.95	30.19	0.000808	1.25	326.85	202.71	0.26
Asta 2	7500.011	tr 50	212.15	27.28	29.60		29.64	0.000547	0.95	252.07	165.96	0.21
Asta 2	7500.011	tr 100	251.77	27.28	29.75		29.80	0.000587	1.03	277.49	171.78	0.22
Asta 2	7500.011	tr 200	291.68	27.28	29.89		29.94	0.000622	1.10	301.74	177.16	0.23
Asta 2	7500.011	tr 500	344.73	27.28	30.06		30.12	0.000662	1.19	332.18	183.66	0.24
Asta 2	7400	tr 50	212.15	27.35	29.53		29.58	0.000720	1.02	228.79	159.34	0.24
Asta 2	7400	tr 100	251.77	27.35	29.67		29.73	0.000765	1.10	252.29	164.50	0.25
Asta 2	7400	tr 200	291.68	27.35	29.81		29.87	0.000805	1.18	274.65	169.17	0.26
Asta 2	7400	tr 500	344.73	27.35	29.97		30.04	0.000852	1.28	302.64	174.90	0.27
Asta 2	7300	tr 50	212.15	26.67	29.51		29.53	0.000225	0.67	340.78	181.09	0.14
Asta 2	7300	tr 100	251.77	26.67	29.65		29.68	0.000255	0.74	367.06	185.68	0.15
Asta 2	7300	tr 200	291.68	26.67	29.79		29.82	0.000284	0.80	391.92	189.63	0.16
Asta 2	7300	tr 500	344.73	26.67	29.95		29.98	0.000318	0.89	422.78	194.06	0.17
Asta 2	7200	tr 50	212.15	26.47	29.49		29.51	0.000199	0.64	350.24	176.38	0.13
Asta 2	7200	tr 100	251.77	26.47	29.63		29.65	0.000229	0.71	375.27	180.47	0.14
Asta 2	7200	tr 200	291.68	26.47	29.76		29.79	0.000258	0.78	398.91	184.25	0.15
Asta 2	7200	tr 500	344.73	26.47	29.92		29.95	0.000293	0.86	428.25	188.84	0.16
Asta 2	7100	tr 50	212.15	26.88	29.45		29.48	0.000399	0.83	272.70	159.18	0.18
Asta 2	7100	tr 100	251.77	26.88	29.58		29.62	0.000451	0.92	294.25	163.51	0.19
Asta 2	7100	tr 200	291.68	26.88	29.70		29.75	0.000498	1.00	314.64	167.19	0.21
Asta 2	7100	tr 500	344.73	26.88	29.85		29.91	0.000557	1.10	339.90	171.31	0.22
Asta 2	7000	tr 50	212.15	27.77	29.20		29.37	0.004593	2.03	122.13	128.13	0.57
Asta 2	7000	tr 100	251.77	27.77	29.30		29.50	0.004800	2.18	135.70	133.37	0.59
Asta 2	7000	tr 200	291.68	27.77	29.40		29.62	0.004958	2.32	148.78	137.82	0.60
Asta 2	7000	tr 500	344.73	27.77	29.52		29.77	0.005161	2.49	165.00	143.01	0.62
Asta 2	6900	tr 50	212.15	27.25	28.26	28.26	28.60	0.014985	2.81	86.40	131.55	0.96
Asta 2	6900	tr 100	251.77	27.25	28.35	28.35	28.72	0.014237	2.93	99.15	138.30	0.95
Asta 2	6900	tr 200	291.68	27.25	28.43	28.43	28.83	0.013844	3.05	111.05	144.32	0.95
Asta 2	6900	tr 500	344.73	27.25	28.54	28.54	28.96	0.013409	3.20	126.41	151.74	0.95
Asta 2	6800	tr 50	212.15	25.58	26.36	26.44	26.74	0.023533	3.11	83.00	169.43	1.16
Asta 2	6800	tr 100	251.77	25.58	26.40	26.50	26.85	0.025317	3.36	91.39	175.51	1.22
Asta 2	6800	tr 200	291.68	25.58	26.46	26.59	26.95	0.026058	3.56	100.52	181.95	1.25
Asta 2	6800	tr 500	344.73	25.58	26.51	26.68	27.08	0.027857	3.84	110.73	189.33	1.31
Asta 2	6700	tr 50	212.15	24.12	25.33	24.85	25.38	0.001508	1.04	227.96	274.76	0.32
Asta 2	6700	tr 100	251.77	24.12	25.48	24.91	25.53	0.001268	1.04	269.92	284.56	0.30
Asta 2	6700	tr 200	291.68	24.12	25.60	24.96	25.65	0.001198	1.07	302.91	291.73	0.29

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 2	6700	tr 500	344.73	24.12	25.76	25.03	25.81	0.001064	1.09	351.56	301.66	0.28
Asta 2	6600.378	tr 50	212.15	22.66	25.33		25.34	0.000112	0.47	497.19	272.67	0.10
Asta 2	6600.378	tr 100	251.77	22.66	25.48		25.49	0.000126	0.51	537.79	279.13	0.10
Asta 2	6600.378	tr 200	291.68	22.66	25.59		25.60	0.000143	0.57	569.44	284.23	0.11
Asta 2	6600.378	tr 500	344.73	22.66	25.75		25.77	0.000159	0.62	615.97	291.56	0.12
Asta 2	6497.271	tr 50	212.15	21.97	25.32		25.33	0.000049	0.34	649.92	288.12	0.07
Asta 2	6497.271	tr 100	251.77	21.97	25.47		25.48	0.000058	0.38	692.60	294.31	0.07
Asta 2	6497.271	tr 200	291.68	21.97	25.58		25.59	0.000067	0.43	725.71	299.02	0.08
Asta 2	6497.271	tr 500	344.73	21.97	25.74		25.75	0.000078	0.47	774.32	305.22	0.09
Asta 2	6398.376	tr 50	212.15	22.39	25.31		25.32	0.000094	0.44	521.85	274.94	0.09
Asta 2	6398.376	tr 100	251.77	22.39	25.46		25.47	0.000107	0.49	562.25	282.70	0.10
Asta 2	6398.376	tr 200	291.68	22.39	25.57		25.58	0.000123	0.54	593.54	288.34	0.10
Asta 2	6398.376	tr 500	344.73	22.39	25.73		25.74	0.000139	0.60	639.96	296.50	0.11
Asta 2	6300	tr 50	212.15	22.96	25.29		25.31	0.000276	0.68	354.74	230.98	0.15
Asta 2	6300	tr 100	251.77	22.96	25.43		25.45	0.000301	0.74	387.87	238.00	0.16
Asta 2	6300	tr 200	291.68	22.96	25.53		25.56	0.000337	0.81	413.12	243.22	0.17
Asta 2	6300	tr 500	344.73	22.96	25.69		25.72	0.000367	0.88	451.23	250.88	0.18
Asta 2	6200	tr 50	212.15	22.88	25.25		25.28	0.000346	0.76	312.88	201.81	0.17
Asta 2	6200	tr 100	251.77	22.88	25.39		25.42	0.000382	0.83	340.91	207.65	0.18
Asta 2	6200	tr 200	291.68	22.88	25.49		25.52	0.000433	0.91	361.65	211.74	0.19
Asta 2	6200	tr 500	344.73	22.88	25.63		25.68	0.000475	0.99	393.61	217.88	0.20
Asta 2	6140.594	tr 50	212.15	22.83	25.22		25.25	0.000383	0.80	291.32	183.20	0.18
Asta 2	6140.594	tr 100	251.77	22.83	25.36		25.39	0.000427	0.88	316.12	188.71	0.19
Asta 2	6140.594	tr 200	291.68	22.83	25.45		25.50	0.000490	0.97	334.05	192.56	0.20
Asta 2	6140.594	tr 500	344.73	22.83	25.60		25.65	0.000544	1.06	362.24	198.46	0.22
Asta 2	6012.01	tr 50	212.15	23.32	25.03		25.15	0.002420	1.70	153.35	142.41	0.43
Asta 2	6012.01	tr 100	251.77	23.32	25.14		25.27	0.002585	1.83	169.44	148.20	0.44
Asta 2	6012.01	tr 200	291.68	23.32	25.20		25.36	0.003062	2.03	177.28	150.94	0.49
Asta 2	6012.01	tr 500	344.73	23.32	25.31		25.49	0.003308	2.20	194.58	156.82	0.51
Asta 2	5932.53	tr 50	212.15	21.31	25.08	22.51	25.09	0.000115	0.64	427.64	198.95	0.11
Asta 2	5932.53	tr 100	251.77	21.31	25.19	22.64	25.21	0.000140	0.72	450.77	201.85	0.12
Asta 2	5932.53	tr 200	291.68	21.31	25.25	22.75	25.28	0.000175	0.81	463.43	203.75	0.13
Asta 2	5932.53	tr 500	344.73	21.31	25.37	22.89	25.40	0.000212	0.91	487.91	207.82	0.15
Asta 2	5916.695		Culvert									
Asta 2	5890.193	tr 50	212.15	20.96	22.55		22.77	0.004917	2.29	107.11	93.10	0.60
Asta 2	5890.193	tr 100	251.77	20.96	22.70		22.94	0.004682	2.39	121.44	94.38	0.59
Asta 2	5890.193	tr 200	291.68	20.96	22.86		23.11	0.004390	2.46	136.73	96.97	0.58
Asta 2	5890.193	tr 500	344.73	20.96	22.56	22.56	23.12	0.012825	3.71	107.53	93.13	0.97
Asta 2	5803.186	tr 50	212.15	19.39	22.55		22.59	0.000644	1.27	254.86	175.71	0.24
Asta 2	5803.186	tr 100	251.77	19.39	22.72		22.76	0.000647	1.32	283.79	177.15	0.24
Asta 2	5803.186	tr 200	291.68	19.39	22.89		22.94	0.000633	1.35	314.28	179.21	0.24
Asta 2	5803.186	tr 500	344.73	19.39	22.37	21.88	22.51	0.002582	2.43	222.95	174.10	0.47
Asta 2	5693.745	tr 50	212.15	19.08	21.93	21.93	22.38	0.008784	4.34	81.44	75.93	0.86
Asta 2	5693.745	tr 100	251.77	19.08	22.04	22.04	22.54	0.009085	4.55	90.54	78.90	0.88
Asta 2	5693.745	tr 200	291.68	19.08	22.13	22.13	22.70	0.010290	4.95	97.72	84.18	0.94
Asta 2	5693.745	tr 500	344.73	19.08	22.28	22.28	22.34	0.000846	1.47	336.04	206.54	0.27
Asta 2	5530.337	tr 50	212.15	17.88	20.78	20.34	20.87	0.002264	2.19	176.87	180.11	0.43
Asta 2	5530.337	tr 100	251.77	17.88	20.91	20.41	21.00	0.002174	2.21	200.57	186.50	0.43
Asta 2	5530.337	tr 200	291.68	17.88	21.04	20.47	21.14	0.002048	2.22	225.45	195.55	0.42
Asta 2	5530.337	tr 500	344.73	17.88	21.20	20.55	21.30	0.001971	2.25	255.51	201.77	0.41
Asta 2	5358.62	tr 50	212.15	17.09	19.70	19.70	20.14	0.008983	4.16	84.17	86.02	0.86
Asta 2	5358.62	tr 100	251.77	17.09	19.84	19.84	20.30	0.008881	4.29	95.86	89.74	0.86
Asta 2	5358.62	tr 200	291.68	17.09	19.93	19.93	20.44	0.009480	4.53	103.93	91.45	0.90
Asta 2	5358.62	tr 500	344.73	17.09	20.07	20.07	20.61	0.009425	4.68	116.95	93.71	0.90
Asta 3	5200	tr 50	337.21	16.68	18.95	18.68	19.06	0.003588	2.33	249.71	301.95	0.53
Asta 3	5200	tr 100	400.01	16.68	19.05	18.75	19.17	0.003575	2.40	278.92	305.32	0.53
Asta 3	5200	tr 200	463.26	16.68	19.14	18.79	19.26	0.003620	2.48	304.98	307.81	0.54
Asta 3	5200	tr 500	547.29	16.68	19.25	18.89	19.39	0.003589	2.55	339.03	308.87	0.54
Asta 3	5126.584	tr 50	337.21	16.68	18.63		18.75	0.004795	2.55	225.32	291.85	0.60
Asta 3	5126.584	tr 100	400.01	16.68	18.72		18.86	0.004922	2.67	251.71	299.84	0.62
Asta 3	5126.584	tr 200	463.26	16.68	18.80		18.95	0.004912	2.74	276.74	310.23	0.62
Asta 3	5126.584	tr 500	547.29	16.68	18.91		19.08	0.004879	2.84	312.21	317.52	0.62
Asta 3	4991.821	tr 50	337.21	15.99	17.92		18.06	0.005537	2.54	206.31	255.70	0.63
Asta 3	4991.821	tr 100	400.01	15.99	18.04		18.19	0.004971	2.52	237.58	258.18	0.60
Asta 3	4991.821	tr 200	463.26	15.99	18.16		18.31	0.004583	2.52	267.24	260.49	0.58
Asta 3	4991.821	tr 500	547.29	15.99	18.30		18.47	0.004212	2.54	306.03	266.92	0.57

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 3	4905.46	tr 50	337.21	15.44	17.70		17.77	0.002062	1.69	293.67	296.01	0.40
Asta 3	4905.46	tr 100	400.01	15.44	17.84		17.91	0.001952	1.73	337.01	308.75	0.39
Asta 3	4905.46	tr 200	463.26	15.44	17.97		18.05	0.001836	1.75	379.32	323.54	0.38
Asta 3	4905.46	tr 500	547.29	15.44	18.14		18.23	0.001698	1.77	435.62	338.05	0.37
Asta 3	4797.75	tr 50	337.21	15.63	17.57		17.61	0.000944	1.01	389.74	350.51	0.26
Asta 3	4797.75	tr 100	400.01	15.63	17.72		17.77	0.000906	1.05	443.37	360.99	0.26
Asta 3	4797.75	tr 200	463.26	15.63	17.86		17.91	0.000872	1.09	494.82	368.00	0.26
Asta 3	4797.75	tr 500	547.29	15.63	18.04		18.09	0.000833	1.13	560.91	376.65	0.26
Asta 3	4704.862	tr 50	337.21	15.44	17.25		17.44	0.004323	2.04	183.08	159.82	0.55
Asta 3	4704.862	tr 100	400.01	15.44	17.39		17.59	0.004270	2.15	204.96	162.34	0.56
Asta 3	4704.862	tr 200	463.26	15.44	17.51		17.74	0.004260	2.27	225.32	164.71	0.56
Asta 3	4704.862	tr 500	547.29	15.44	17.67		17.92	0.004202	2.39	251.96	176.04	0.57
Asta 3	4604.907	tr 50	337.21	15.23	16.97		17.07	0.002755	1.44	243.22	223.73	0.43
Asta 3	4604.907	tr 100	400.01	15.23	17.15		17.25	0.002353	1.46	283.49	225.63	0.40
Asta 3	4604.907	tr 200	463.26	15.23	17.30		17.41	0.002205	1.52	316.63	227.33	0.40
Asta 3	4604.907	tr 500	547.29	15.23	17.48		17.60	0.002042	1.58	358.66	227.97	0.39
Asta 3	4497.926	tr 50	337.21	14.56	16.81		16.88	0.001114	1.37	310.26	249.72	0.32
Asta 3	4497.926	tr 100	400.01	14.56	17.02		17.09	0.000990	1.38	361.23	251.94	0.31
Asta 3	4497.926	tr 200	463.26	14.56	17.17		17.25	0.000973	1.44	399.96	253.53	0.31
Asta 3	4497.926	tr 500	547.29	14.56	17.36		17.45	0.000964	1.52	448.87	259.39	0.31
Asta 3	4414.201	tr 50	337.21	14.09	16.63	15.95	16.76	0.001697	1.98	221.84	147.18	0.42
Asta 3	4414.201	tr 100	400.01	14.09	16.84	16.06	16.98	0.001610	2.04	251.88	149.07	0.42
Asta 3	4414.201	tr 200	463.26	14.09	16.97	16.16	17.13	0.001697	2.18	272.30	150.42	0.43
Asta 3	4414.201	tr 500	547.29	14.09	17.14	16.30	17.33	0.001806	2.34	297.94	153.39	0.45
Asta 3	4319.968	tr 50	337.21	13.95	16.39		16.58	0.002168	2.27	192.73	136.79	0.49
Asta 3	4319.968	tr 100	400.01	13.95	16.61		16.80	0.002007	2.33	223.18	142.71	0.47
Asta 3	4319.968	tr 200	463.26	13.95	16.73		16.95	0.002178	2.50	239.64	143.97	0.50
Asta 3	4319.968	tr 500	547.29	13.95	16.87		17.13	0.002378	2.71	260.23	145.80	0.52
Asta 3	4200	tr 50	337.21	13.87	16.21		16.33	0.001701	2.01	228.14	158.50	0.43
Asta 3	4200	tr 100	400.01	13.87	16.46		16.58	0.001463	2.00	267.77	161.98	0.41
Asta 3	4200	tr 200	463.26	13.87	16.55		16.70	0.001643	2.17	283.55	163.17	0.43
Asta 3	4200	tr 500	547.29	13.87	16.67		16.85	0.001868	2.39	303.33	165.24	0.46
Asta 3	4110.144	tr 50	337.21	13.16	16.11		16.21	0.000986	1.74	251.33	133.57	0.34
Asta 3	4110.144	tr 100	400.01	13.16	16.36		16.47	0.000938	1.80	285.33	136.43	0.33
Asta 3	4110.144	tr 200	463.26	13.16	16.44		16.57	0.001122	2.00	296.10	137.26	0.37
Asta 3	4110.144	tr 500	547.29	13.16	16.54		16.71	0.001370	2.26	309.25	138.26	0.41
Asta 3	3998.989	tr 50	337.21	12.77	16.08		16.12	0.000421	1.02	378.43	170.07	0.19
Asta 3	3998.989	tr 100	400.01	12.77	16.34		16.38	0.000422	1.08	422.21	173.00	0.20
Asta 3	3998.989	tr 200	463.26	12.77	16.41		16.47	0.000515	1.21	434.95	173.79	0.22
Asta 3	3998.989	tr 500	547.29	12.77	16.50		16.58	0.000646	1.38	450.35	174.74	0.25
Asta 3	3870.196	tr 50	337.21	12.06	16.07	13.91	16.09	0.000140	0.66	635.27	272.21	0.12
Asta 3	3870.196	tr 100	400.01	12.06	16.33	13.99	16.35	0.000142	0.70	705.72	276.90	0.12
Asta 3	3870.196	tr 200	463.26	12.06	16.40	14.08	16.42	0.000175	0.79	725.76	278.12	0.13
Asta 3	3870.196	tr 500	547.29	12.06	16.49	14.19	16.52	0.000221	0.90	750.01	279.71	0.15
Asta 3	3792.732	tr 50	337.21	11.68	16.07		16.08	0.000084	0.56	720.11	246.22	0.09
Asta 3	3792.732	tr 100	400.01	11.68	16.32		16.34	0.000091	0.60	783.80	249.79	0.09
Asta 3	3792.732	tr 200	463.26	11.68	16.39		16.41	0.000114	0.68	801.49	250.56	0.10
Asta 3	3792.732	tr 500	547.29	11.68	16.48		16.50	0.000146	0.78	822.76	251.49	0.12
Asta 3	3694.035	tr 50	337.21	10.70	16.06		16.07	0.000068	0.54	750.83	240.35	0.08
Asta 3	3694.035	tr 100	400.01	10.70	16.31		16.33	0.000076	0.59	813.20	245.79	0.08
Asta 3	3694.035	tr 200	463.26	10.70	16.38		16.40	0.000096	0.67	830.11	246.75	0.09
Asta 3	3694.035	tr 500	547.29	10.70	16.47		16.49	0.000125	0.77	850.35	247.92	0.11
Asta 3	3579.097	tr 50	337.21	10.43	16.05		16.06	0.000063	0.58	754.94	231.54	0.08
Asta 3	3579.097	tr 100	400.01	10.43	16.31		16.32	0.000070	0.63	814.35	234.08	0.09
Asta 3	3579.097	tr 200	463.26	10.43	16.37		16.39	0.000088	0.72	829.92	234.64	0.10
Asta 3	3579.097	tr 500	547.29	10.43	16.45		16.47	0.000115	0.83	848.39	235.29	0.11
Asta 3	3500.036	tr 50	337.21	10.25	16.03		16.05	0.000107	0.81	523.11	139.27	0.11
Asta 3	3500.036	tr 100	400.01	10.25	16.28		16.31	0.000125	0.89	558.41	142.18	0.12
Asta 3	3500.036	tr 200	463.26	10.25	16.34		16.38	0.000160	1.02	566.89	142.66	0.13
Asta 3	3500.036	tr 500	547.29	10.25	16.41		16.46	0.000212	1.18	576.62	143.23	0.16
Asta 3	3440.525	tr 50	337.21	9.92	16.00		16.04	0.000192	1.10	385.79	105.61	0.15
Asta 3	3440.525	tr 100	400.01	9.92	16.24		16.30	0.000239	1.26	413.49	119.34	0.16
Asta 3	3440.525	tr 200	463.26	9.92	16.29		16.36	0.000311	1.44	419.10	120.74	0.19
Asta 3	3440.525	tr 500	547.29	9.92	16.34		16.44	0.000418	1.68	425.01	121.78	0.22
Asta 3	3302.533	tr 50	337.21	9.51	16.01		16.02	0.000055	0.61	770.58	225.17	0.08
Asta 3	3302.533	tr 100	400.01	9.51	16.26		16.27	0.000063	0.67	826.53	229.88	0.09

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 3	3302.533	tr 200	463.26	9.51	16.31		16.33	0.000081	0.77	838.42	230.88	0.10
Asta 3	3302.533	tr 500	547.29	9.51	16.36		16.39	0.000109	0.89	851.42	231.87	0.11
Asta 3	3194.761	tr 50	337.21	9.05	16.01		16.02	0.000034	0.50	916.31	230.51	0.06
Asta 3	3194.761	tr 100	400.01	9.05	16.25		16.26	0.000040	0.55	973.53	235.66	0.07
Asta 3	3194.761	tr 200	463.26	9.05	16.30		16.32	0.000052	0.63	985.53	236.73	0.08
Asta 3	3194.761	tr 500	547.29	9.05	16.36		16.38	0.000069	0.74	998.59	237.88	0.09
Asta 3	3078.327	tr 50	337.21	8.95	16.01		16.01	0.000019	0.39	1115.09	240.85	0.05
Asta 3	3078.327	tr 100	400.01	8.95	16.25		16.26	0.000023	0.43	1174.53	243.75	0.05
Asta 3	3078.327	tr 200	463.26	8.95	16.30		16.31	0.000030	0.50	1186.84	244.32	0.06
Asta 3	3078.327	tr 500	547.29	8.95	16.36		16.37	0.000040	0.58	1200.15	244.93	0.07
Asta 3	3007.292	tr 50	337.21	7.54	16.01		16.01	0.000013	0.29	1340.85	262.94	0.03
Asta 3	3007.292	tr 100	400.01	7.54	16.25		16.26	0.000017	0.33	1406.31	270.02	0.04
Asta 3	3007.292	tr 200	463.26	7.54	16.30		16.31	0.000022	0.38	1419.94	271.07	0.04
Asta 3	3007.292	tr 500	547.29	7.54	16.36		16.37	0.000030	0.45	1434.72	272.90	0.05
Asta 3	2900	tr 50	337.21	7.60	16.01		16.01	0.000012	0.31	1267.31	235.35	0.04
Asta 3	2900	tr 100	400.01	7.60	16.25		16.26	0.000014	0.35	1325.13	237.11	0.04
Asta 3	2900	tr 200	463.26	7.60	16.30		16.31	0.000019	0.41	1336.94	237.63	0.05
Asta 3	2900	tr 500	547.29	7.60	16.35		16.36	0.000026	0.48	1349.62	238.08	0.05
Asta 3	2800	tr 50	337.21	7.24	16.00		16.01	0.000028	0.46	871.47	171.51	0.05
Asta 3	2800	tr 100	400.01	7.24	16.24		16.25	0.000034	0.52	913.47	173.83	0.06
Asta 3	2800	tr 200	463.26	7.24	16.29		16.30	0.000044	0.59	921.69	174.29	0.07
Asta 3	2800	tr 500	547.29	7.24	16.34		16.36	0.000060	0.69	930.34	174.76	0.08
Asta 3	2679.119	tr 50	337.21	6.94	15.98	10.45	16.00	0.000147	0.52	611.11	106.04	0.06
Asta 3	2679.119	tr 100	400.01	6.94	16.21	10.62	16.24	0.000183	0.59	636.37	107.16	0.07
Asta 3	2679.119	tr 200	463.26	6.94	16.25	10.78	16.29	0.000241	0.68	640.46	107.34	0.08
Asta 3	2679.119	tr 500	547.29	6.94	16.29	10.99	16.34	0.000330	0.80	644.27	107.51	0.09
Asta 3	2634.924		Bridge									
Asta 3	2605.382	tr 50	337.21	7.07	15.96	10.70	15.97	0.000275	0.63	660.26	120.66	0.07
Asta 3	2605.382	tr 100	400.01	7.07	16.19	10.84	16.21	0.000340	0.71	688.48	121.62	0.08
Asta 3	2605.382	tr 200	463.26	7.07	16.23	10.97	16.25	0.000448	0.82	692.33	121.75	0.09
Asta 3	2605.382	tr 500	547.29	7.07	16.25	11.13	16.28	0.000618	0.96	695.39	121.85	0.11
Asta 3	2559.463	tr 50	337.21	6.75	15.95	10.54	15.96	0.000204	0.54	730.90	125.42	0.06
Asta 3	2559.463	tr 100	400.01	6.75	16.18	10.67	16.20	0.000255	0.61	759.92	125.97	0.07
Asta 3	2559.463	tr 200	463.26	6.75	16.21	10.79	16.23	0.000336	0.71	763.46	126.02	0.08
Asta 3	2559.463	tr 500	547.29	6.75	16.23	10.93	16.26	0.000465	0.83	765.92	126.06	0.09
Asta 3	2428.544	tr 50	337.21	8.04	15.91	10.43	15.93	0.000423	0.79	585.59	124.43	0.09
Asta 3	2428.544	tr 100	400.01	8.04	16.13	10.61	16.15	0.000534	0.91	613.73	132.18	0.10
Asta 3	2428.544	tr 200	463.26	8.04	16.14	10.77	16.17	0.000713	1.05	614.99	133.34	0.12
Asta 3	2428.544	tr 500	547.29	8.04	16.13	11.01	16.17	0.001001	1.24	613.65	132.15	0.14
Asta 3	2394.43		Culvert									
Asta 3	2355.549	tr 50	337.21	6.11	10.33	8.68	10.45	0.003666	1.16	242.84	93.93	0.18
Asta 3	2355.549	tr 100	400.01	6.11	10.62	8.85	10.76	0.003660	1.21	270.11	96.22	0.19
Asta 3	2355.549	tr 200	463.26	6.11	10.89	9.01	11.05	0.003641	1.26	296.55	98.38	0.19
Asta 3	2355.549	tr 500	547.29	6.11	11.23	9.21	11.41	0.003606	1.32	330.39	101.05	0.19
Asta 3	2264.758	tr 50	337.21	5.80	9.76	8.56	9.99	0.008269	1.71	167.93	69.21	0.29
Asta 3	2264.758	tr 100	400.01	5.80	10.04	8.74	10.30	0.008185	1.79	187.08	70.69	0.29
Asta 3	2264.758	tr 200	463.26	5.80	10.30	8.93	10.59	0.008086	1.86	205.75	72.21	0.29
Asta 3	2264.758	tr 500	547.29	5.80	10.63	9.17	10.96	0.007916	1.94	229.80	74.06	0.30
Asta 3	2221.735	tr 50	337.21	5.72	9.30	8.40	9.58	0.010947	1.97	151.91	71.57	0.35
Asta 3	2221.735	tr 100	400.01	5.72	9.60	8.59	9.91	0.009849	1.98	174.16	73.72	0.33
Asta 3	2221.735	tr 200	463.26	5.72	9.89	8.77	10.22	0.009039	2.00	195.65	75.62	0.32
Asta 3	2221.735	tr 500	547.29	5.72	10.25	9.00	10.61	0.008374	2.04	223.41	79.07	0.32
Asta 3	2123.107	tr 50	337.21	5.36	9.27		9.31	0.000791	1.05	486.86	206.04	0.18
Asta 3	2123.107	tr 100	400.01	5.36	9.61		9.65	0.000721	1.07	557.04	208.25	0.18
Asta 3	2123.107	tr 200	463.26	5.36	9.93		9.97	0.000675	1.10	622.79	210.28	0.17
Asta 3	2123.107	tr 500	547.29	5.36	10.31		10.36	0.000635	1.14	704.16	212.95	0.17
Asta 3	2060.575	tr 50	337.21	5.56	9.25		9.27	0.000430	0.74	665.62	278.87	0.13
Asta 3	2060.575	tr 100	400.01	5.56	9.59		9.61	0.000395	0.75	762.08	283.80	0.12
Asta 3	2060.575	tr 200	463.26	5.56	9.91		9.93	0.000371	0.77	852.71	287.67	0.12
Asta 3	2060.575	tr 500	547.29	5.56	10.30		10.32	0.000348	0.80	965.39	292.91	0.12
Asta 3	2011.687	tr 50	337.21	5.34	9.23		9.25	0.000341	0.93	662.10	257.03	0.16
Asta 3	2011.687	tr 100	400.01	5.34	9.57		9.60	0.000321	0.96	750.88	259.79	0.16
Asta 3	2011.687	tr 200	463.26	5.34	9.89		9.92	0.000307	0.99	834.07	264.69	0.16
Asta 3	2011.687	tr 500	547.29	5.34	10.28		10.31	0.000295	1.03	937.65	269.07	0.16
Asta 3	1957.53	tr 50	337.21	5.19	9.17		9.23	0.000555	0.86	392.09	138.63	0.14

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 3	1957.53	tr 100	400.01	5.19	9.51		9.57	0.000554	0.91	439.98	142.99	0.14
Asta 3	1957.53	tr 200	463.26	5.19	9.83		9.89	0.000542	0.95	485.31	146.41	0.14
Asta 3	1957.53	tr 500	547.29	5.19	10.21		10.28	0.000530	0.99	542.09	150.27	0.14
Asta 3	1873.348	tr 50	337.21	4.05	9.11		9.18	0.000461	1.49	334.52	107.20	0.22
Asta 3	1873.348	tr 100	400.01	4.05	9.44		9.53	0.000479	1.59	370.65	108.97	0.22
Asta 3	1873.348	tr 200	463.26	4.05	9.75		9.85	0.000498	1.68	404.56	110.95	0.23
Asta 3	1873.348	tr 500	547.29	4.05	10.13		10.24	0.000521	1.80	446.81	113.43	0.24
Asta 3	1839.501	tr 50	337.21	4.40	9.05		9.15	0.001275	1.62	270.08	106.16	0.26
Asta 3	1839.501	tr 100	400.01	4.40	9.38		9.50	0.001220	1.67	306.03	109.40	0.26
Asta 3	1839.501	tr 200	463.26	4.40	9.69		9.82	0.001183	1.72	340.17	112.35	0.26
Asta 3	1839.501	tr 500	547.29	4.40	10.07		10.21	0.001152	1.79	383.03	115.50	0.25
Asta 3	1800	tr 50	337.21	4.33	8.92		9.05	0.006444	1.72	215.02	69.33	0.28
Asta 3	1800	tr 100	400.01	4.33	9.25		9.40	0.006721	1.85	237.88	71.60	0.29
Asta 3	1800	tr 200	463.26	4.33	9.54		9.72	0.006979	1.98	259.57	73.89	0.30
Asta 3	1800	tr 500	547.29	4.33	9.91		10.11	0.007274	2.13	286.91	76.60	0.31
Asta 3	1750.149	tr 50	337.21	4.09	8.56		8.71	0.007237	1.84	204.64	72.46	0.32
Asta 3	1750.149	tr 100	400.01	4.09	8.87		9.04	0.007439	1.98	227.45	74.66	0.33
Asta 3	1750.149	tr 200	463.26	4.09	9.15		9.35	0.007634	2.10	248.98	76.63	0.34
Asta 3	1750.149	tr 500	547.29	4.09	9.50		9.73	0.007870	2.26	275.97	79.05	0.35
Asta 3	1711.203	tr 50	337.21	4.26	8.19		8.38	0.009820	2.05	183.43	68.92	0.37
Asta 3	1711.203	tr 100	400.01	4.26	8.48		8.70	0.010063	2.20	204.11	71.11	0.38
Asta 3	1711.203	tr 200	463.26	4.26	8.75		9.00	0.010342	2.35	223.51	73.35	0.39
Asta 3	1711.203	tr 500	547.29	4.26	9.08		9.37	0.010634	2.52	248.06	75.54	0.40
Asta 3	1657.057	tr 50	337.21	3.91	7.94		8.09	0.003184	2.56	235.21	90.11	0.43
Asta 3	1657.057	tr 100	400.01	3.91	8.24		8.41	0.003169	2.70	262.59	91.69	0.44
Asta 3	1657.057	tr 200	463.26	3.91	8.52		8.70	0.003157	2.82	287.86	93.09	0.44
Asta 3	1657.057	tr 500	547.29	3.91	8.85		9.06	0.003157	2.97	319.22	94.68	0.45
Asta 3	1553.14	tr 50	337.21	3.99	7.45		7.71	0.003822	2.35	156.76	57.69	0.41
Asta 3	1553.14	tr 100	400.01	3.99	7.71		8.02	0.004119	2.56	172.22	63.25	0.44
Asta 3	1553.14	tr 200	463.26	3.99	7.94		8.30	0.004385	2.76	187.17	65.11	0.45
Asta 3	1553.14	tr 500	547.29	3.99	8.22		8.64	0.004703	3.00	205.73	66.60	0.48
Asta 3	1490.024	tr 50	337.21	3.88	7.26		7.46	0.003696	2.02	181.21	70.54	0.36
Asta 3	1490.024	tr 100	400.01	3.88	7.50		7.74	0.003964	2.19	198.88	72.42	0.38
Asta 3	1490.024	tr 200	463.26	3.88	7.73		8.00	0.004224	2.36	215.30	74.09	0.39
Asta 3	1490.024	tr 500	547.29	3.88	8.00		8.32	0.004539	2.57	235.75	76.09	0.41
Asta 3	1400.365	tr 50	337.21	3.65	6.96		7.16	0.002849	2.27	181.21	81.93	0.41
Asta 3	1400.365	tr 100	400.01	3.65	7.20		7.43	0.002941	2.43	201.08	83.73	0.42
Asta 3	1400.365	tr 200	463.26	3.65	7.41		7.67	0.003055	2.58	219.13	85.25	0.44
Asta 3	1400.365	tr 500	547.29	3.65	7.67		7.97	0.003195	2.76	241.56	87.46	0.45
Asta 3	1270.72	tr 50	337.21	3.53	6.79		6.90	0.001254	1.47	253.00	101.82	0.27
Asta 3	1270.72	tr 100	400.01	3.53	7.03		7.15	0.001347	1.61	277.20	106.89	0.28
Asta 3	1270.72	tr 200	463.26	3.53	7.23		7.37	0.001435	1.73	299.54	109.03	0.30
Asta 3	1270.72	tr 500	547.29	3.53	7.49		7.65	0.001540	1.87	327.56	112.51	0.31
Asta 3	1194.009	tr 50	337.21	3.50	6.71		6.80	0.001186	1.33	270.68	114.85	0.26
Asta 3	1194.009	tr 100	400.01	3.50	6.94		7.04	0.001252	1.44	297.13	116.05	0.27
Asta 3	1194.009	tr 200	463.26	3.50	7.14		7.26	0.001327	1.55	320.75	117.20	0.28
Asta 3	1194.009	tr 500	547.29	3.50	7.39		7.53	0.001416	1.68	349.95	118.55	0.29
Asta 3	1152.827	tr 50	337.21	3.39	6.69	4.83	6.75	0.000753	1.11	314.54	119.95	0.21
Asta 3	1152.827	tr 100	400.01	3.39	6.92	4.95	6.99	0.000816	1.22	342.03	121.35	0.22
Asta 3	1152.827	tr 200	463.26	3.39	7.12	5.07	7.21	0.000883	1.32	366.59	122.47	0.23
Asta 3	1152.827	tr 500	547.29	3.39	7.37	5.22	7.47	0.000964	1.45	396.94	123.93	0.24
Asta 3	1105.274		Bridge									
Asta 3	1080.882	tr 50	337.21	3.36	6.58	5.38	6.64	0.001103	1.15	331.84	174.52	0.24
Asta 3	1080.882	tr 100	400.01	3.36	6.80	5.48	6.87	0.001143	1.25	371.29	183.33	0.25
Asta 3	1080.882	tr 200	463.26	3.36	7.00	5.56	7.07	0.001150	1.31	407.66	185.35	0.25
Asta 3	1080.882	tr 500	547.29	3.36	7.24	5.68	7.32	0.001159	1.40	452.66	190.24	0.26
Asta 3	966.1641	tr 50	337.21	3.54	6.26		6.43	0.003100	2.03	206.62	142.83	0.41
Asta 3	966.1641	tr 100	400.01	3.54	6.46		6.65	0.003176	2.17	236.26	147.38	0.42
Asta 3	966.1641	tr 200	463.26	3.54	6.66		6.85	0.003152	2.26	265.16	153.48	0.43
Asta 3	966.1641	tr 500	547.29	3.54	6.89		7.10	0.003098	2.36	302.16	159.89	0.43
Asta 3	893.3862	tr 50	337.21	2.77	6.13		6.24	0.001882	1.87	235.31	116.94	0.33
Asta 3	893.3862	tr 100	400.01	2.77	6.32		6.46	0.001992	2.00	258.64	119.07	0.35
Asta 3	893.3862	tr 200	463.26	2.77	6.51		6.66	0.002092	2.13	280.76	122.38	0.36
Asta 3	893.3862	tr 500	547.29	2.77	6.73		6.91	0.002195	2.27	308.87	124.66	0.37
Asta 3	830.2708	tr 50	337.21	2.73	6.04		6.12	0.001651	1.69	286.88	169.99	0.31
Asta 3	830.2708	tr 100	400.01	2.73	6.24		6.33	0.001770	1.82	320.55	175.90	0.32

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 3	830.2708	tr 200	463.26	2.73	6.42		6.52	0.001875	1.95	352.73	178.39	0.34
Asta 3	830.2708	tr 500	547.29	2.73	6.64		6.76	0.001972	2.08	393.99	183.49	0.35
Asta 3	757.369	tr 50	337.21	2.54	6.02		6.05	0.000423	0.91	451.57	187.89	0.16
Asta 3	757.369	tr 100	400.01	2.54	6.21		6.25	0.000478	1.00	487.77	190.08	0.17
Asta 3	757.369	tr 200	463.26	2.54	6.38		6.44	0.000532	1.09	522.04	196.93	0.18
Asta 3	757.369	tr 500	547.29	2.54	6.61		6.67	0.000588	1.19	566.36	198.78	0.19
Asta 3	715.4681	tr 50	337.21	2.43	6.01		6.03	0.000334	0.78	488.70	198.69	0.14
Asta 3	715.4681	tr 100	400.01	2.43	6.20		6.23	0.000385	0.87	527.05	205.42	0.15
Asta 3	715.4681	tr 200	463.26	2.43	6.37		6.41	0.000424	0.94	563.49	206.28	0.16
Asta 3	715.4681	tr 500	547.29	2.43	6.60		6.65	0.000468	1.03	609.71	207.46	0.17
Asta 3	650.7374	tr 50	337.21	2.68	5.90		5.99	0.002050	1.17	272.97	134.24	0.21
Asta 3	650.7374	tr 100	400.01	2.68	6.08		6.18	0.002226	1.27	296.41	137.16	0.23
Asta 3	650.7374	tr 200	463.26	2.68	6.24		6.35	0.002387	1.36	318.57	140.67	0.24
Asta 3	650.7374	tr 500	547.29	2.68	6.44		6.58	0.002552	1.46	347.40	145.38	0.25
Asta 3	613.1982	tr 50	337.21	2.71	5.23	5.20	5.77	0.017346	4.48	110.79	106.69	0.95
Asta 3	613.1982	tr 100	400.01	2.71	5.45	5.38	5.96	0.014807	4.42	136.28	117.03	0.89
Asta 3	613.1982	tr 200	463.26	2.71	5.68		6.14	0.012506	4.30	162.65	119.36	0.83
Asta 3	613.1982	tr 500	547.29	2.71	5.93		6.38	0.010127	4.10	193.26	121.36	0.76
Asta 3	557.7523	tr 50	337.21	2.13	5.03	4.38	5.23	0.004541	2.59	172.39	99.44	0.50
Asta 3	557.7523	tr 100	400.01	2.13	5.25	4.51	5.47	0.004321	2.66	195.03	100.75	0.49
Asta 3	557.7523	tr 200	463.26	2.13	5.45	4.63	5.70	0.004317	2.78	215.97	105.83	0.50
Asta 3	557.7523	tr 500	547.29	2.13	5.72	4.78	5.99	0.004108	2.86	244.11	108.79	0.49
Asta 3	500	tr 50	337.21	1.97	4.75	4.07	4.97	0.004514	2.48	167.97	95.04	0.50
Asta 3	500	tr 100	400.01	1.97	4.99	4.22	5.23	0.004270	2.56	191.21	96.95	0.49
Asta 3	500	tr 200	463.26	1.97	5.20	4.35	5.46	0.004222	2.67	211.40	98.78	0.49
Asta 3	500	tr 500	547.29	1.97	5.45	4.55	5.74	0.004361	2.87	237.56	106.16	0.51
Asta 3	432.7798	tr 50	337.21	1.83	4.54	3.71	4.69	0.003417	1.73	199.33	121.80	0.41
Asta 3	432.7798	tr 100	400.01	1.83	4.79	3.86	4.95	0.003494	1.62	232.80	141.01	0.41
Asta 3	432.7798	tr 200	463.26	1.83	5.03	4.00	5.18	0.003118	1.64	266.55	145.65	0.39
Asta 3	432.7798	tr 500	547.29	1.83	5.31	4.15	5.48	0.002758	1.69	308.65	149.12	0.38
Asta 3	405.2946	tr 50	337.21	0.46	3.93	3.78	4.49	0.010936	4.11	109.72	65.94	0.78
Asta 3	405.2946	tr 100	400.01	0.46	4.01	3.95	4.72	0.013349	4.62	115.09	66.39	0.86
Asta 3	405.2946	tr 200	463.26	0.46	4.11	4.11	4.96	0.014996	5.02	122.13	66.98	0.92
Asta 3	405.2946	tr 500	547.29	0.46	4.32	4.32	5.25	0.015160	5.27	136.06	68.54	0.93
Asta 3	348.7805	tr 50	337.21	0.72	3.80	3.19	3.97	0.005034	2.05	185.76	135.35	0.49
Asta 3	348.7805	tr 100	400.01	0.72	3.85	3.31	4.08	0.006342	2.35	192.71	136.37	0.55
Asta 3	348.7805	tr 200	463.26	0.72	4.01	3.43	4.14	0.003137	1.75	292.97	194.37	0.40
Asta 3	348.7805	tr 500	547.29	0.72	4.21	3.58	4.35	0.003014	1.82	331.17	199.85	0.39
Asta 3	293.3696	tr 50	337.21	1.00	3.73	2.76	3.80	0.001637	1.17	291.03	180.68	0.29
Asta 3	293.3696	tr 100	400.01	1.00	3.75	2.86	3.85	0.002182	1.36	295.92	180.88	0.33
Asta 3	293.3696	tr 200	463.26	1.00	3.88	2.95	3.99	0.002312	1.47	318.78	183.11	0.35
Asta 3	293.3696	tr 500	547.29	1.00	4.08	3.06	4.20	0.002282	1.56	355.08	185.41	0.35
Asta 3	245.0278	tr 50	337.21	0.39	3.66	3.66	3.72	0.001337	1.27	305.87	178.63	0.26
Asta 3	245.0278	tr 100	400.01	0.39	3.66	3.66	3.75	0.001881	1.50	305.87	178.63	0.31
Asta 3	245.0278	tr 200	463.26	0.39	3.78	3.66	3.88	0.002031	1.61	327.18	179.62	0.33
Asta 3	245.0278	tr 500	547.29	0.39	3.98	3.66	4.09	0.002029	1.70	362.82	181.14	0.33
Asta 3	200.332	tr 50	337.21	0.33	3.31	2.42	3.42	0.002582	1.49	229.94	135.37	0.36
Asta 3	200.332	tr 100	400.01	0.33	3.48	2.54	3.61	0.002694	1.61	252.08	136.37	0.37
Asta 3	200.332	tr 200	463.26	0.33	3.62	2.66	3.77	0.002815	1.73	272.24	137.27	0.38
Asta 3	200.332	tr 500	547.29	0.33	3.80	2.79	3.98	0.002950	1.87	297.35	138.36	0.40
Asta 3	163.9777	tr 50	337.21	0.41	3.22	2.38	3.33	0.002644	1.46	241.28	156.88	0.36
Asta 3	163.9777	tr 100	400.01	0.41	3.39	2.49	3.50	0.002696	1.57	266.90	158.54	0.37
Asta 3	163.9777	tr 200	463.26	0.41	3.53	2.60	3.67	0.002768	1.67	290.25	160.01	0.38
Asta 3	163.9777	tr 500	547.29	0.41	3.71	2.74	3.87	0.002843	1.79	319.53	161.38	0.39
Asta 3	109.0208	tr 50	337.21	0.32	2.50	2.50	2.97	0.020624	3.08	112.47	118.92	0.93
Asta 3	109.0208	tr 100	400.01	0.32	2.62	2.62	3.14	0.020311	3.27	126.35	120.62	0.94
Asta 3	109.0208	tr 200	463.26	0.32	2.74	2.74	3.30	0.018986	3.38	142.18	124.21	0.92
Asta 3	109.0208	tr 500	547.29	0.32	2.90	2.90	3.50	0.017905	3.52	161.81	130.29	0.91
Asta 3	61.00846	tr 50	337.21	-0.35	1.80	1.02	1.89	0.001276	1.30	258.91	255.94	0.41
Asta 3	61.00846	tr 100	400.01	-0.35	1.80	1.14	1.92	0.001796	1.54	258.91	255.94	0.49
Asta 3	61.00846	tr 200	463.26	-0.35	1.80	1.33	1.96	0.002408	1.79	258.91	255.94	0.57
Asta 3	61.00846	tr 500	547.29	-0.35	0.96	1.48	2.34	0.029462	5.20	105.35	121.50	1.78

COMUNE DI SASSARI

Studio di Assetto Idraulico del territorio comunale

Variante al PAI ai sensi dell'art. 374 c.3 delle N.A.

Aggiornamento a seguito di prescrizioni (prot. N. 12928 del 30.12.2020)

Area di indagine: **TERRITORIO COMUNALE**

SIMULAZIONI IN MOTO PERMANENTE

Modello 18 : Stagno di Pilo

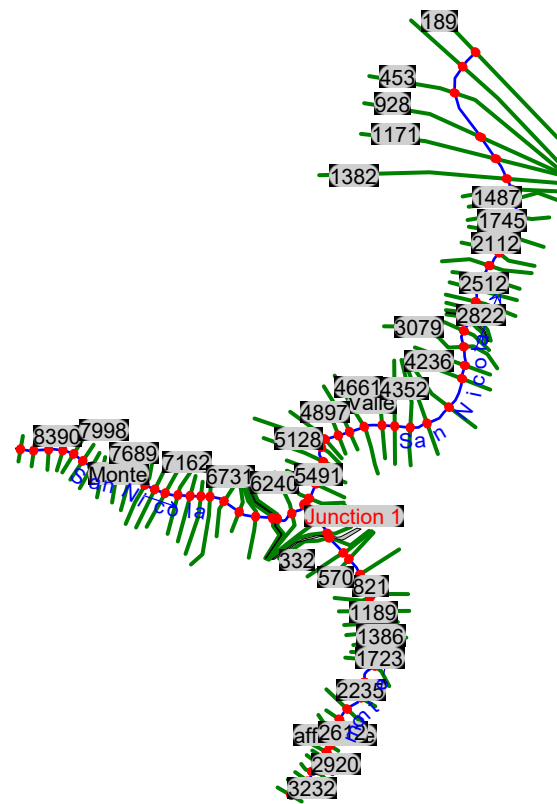
Componenti:

Affluente
Rio San Nicola

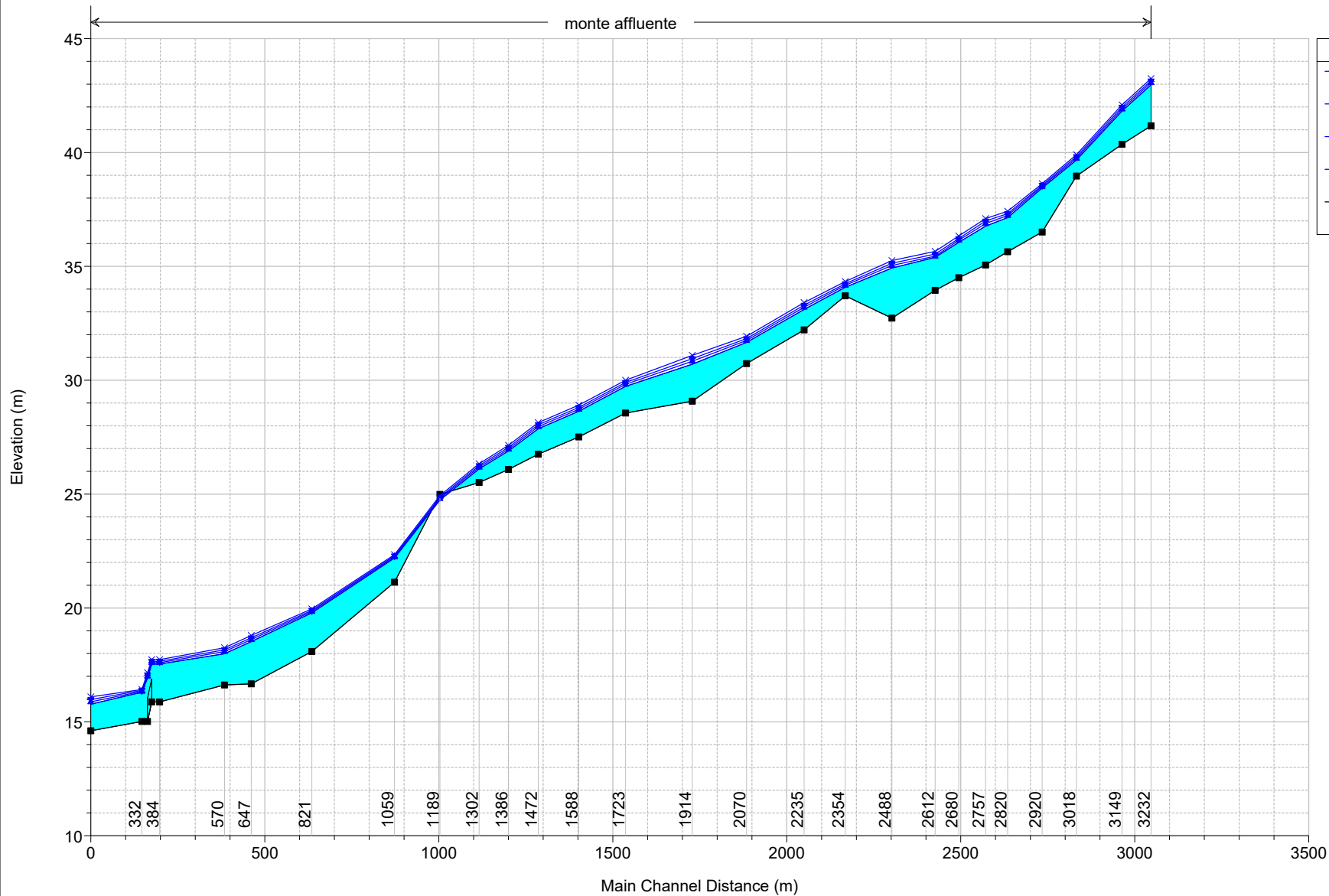
- Schema planimetrico del modello matematico;
- Profili longitudinali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Sezioni trasversali con livelli idrici per tempi di ritorno 50, 100, 200 e 500 anni;
- Tabulati numerici di output per tempi di ritorno 50, 100, 200 e 500 anni;
- Calcolo della portata critica;
- Profilo longitudinale del livello idrico per il tempo di ritorno critico TC;
- Verifica dei franchi idraulici e della portata critica;

River	Reach	RS	PORTATE mc/s			
			T50	T100	T200	T500
monte	affluente	3232	74.824	89.672	104.719	124.831
San Nicola	Monte	8390	147.14	175.521	204.201	242.431
San Nicola	Valle	5491	204.85	243.613	282.713	334.739
San Nicola	Valle	2702	257.974	305.332	352.99	416.274

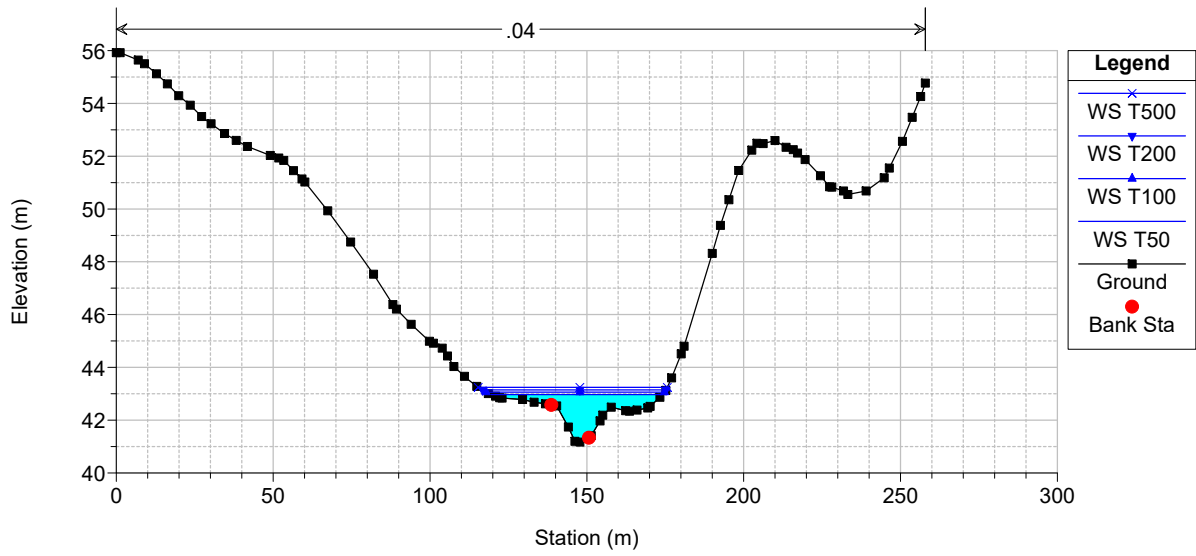
River	Reach	PROFILI	condizioni al contorno	
			upstream	downstream
monte	affluente	all	Critical Depth	Junction=Junction1
San Nicola	Monte	all	Critical Depth	Junction=Junction1
San Nicola	Valle	all	Junction=Junction1	Known WS



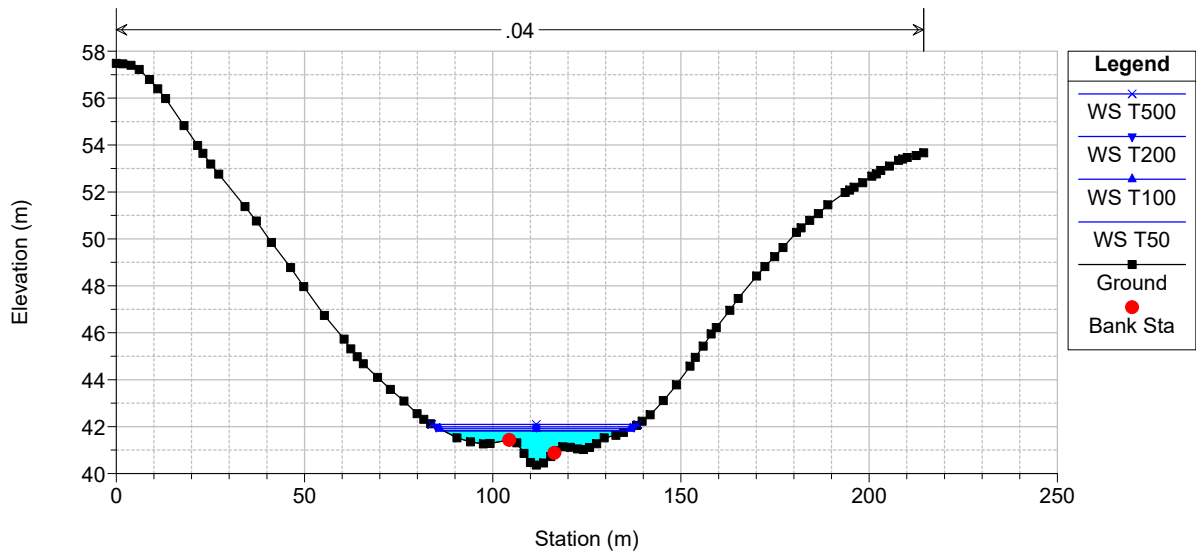
SPiLO Plan: Plan 03 2/14/2021



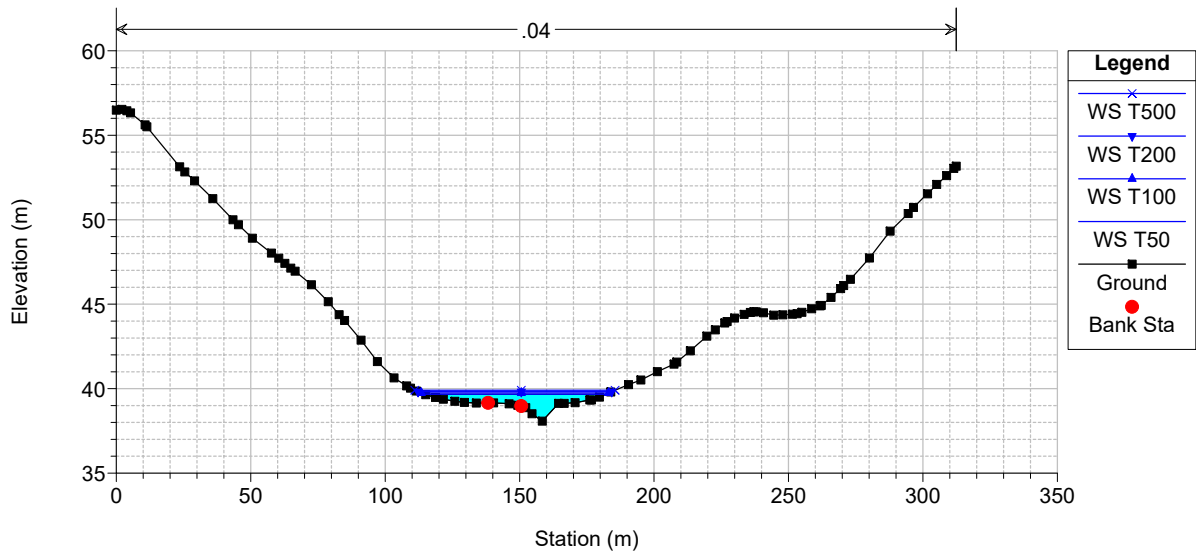
SPiO Plan: Plan 03 2/14/2021



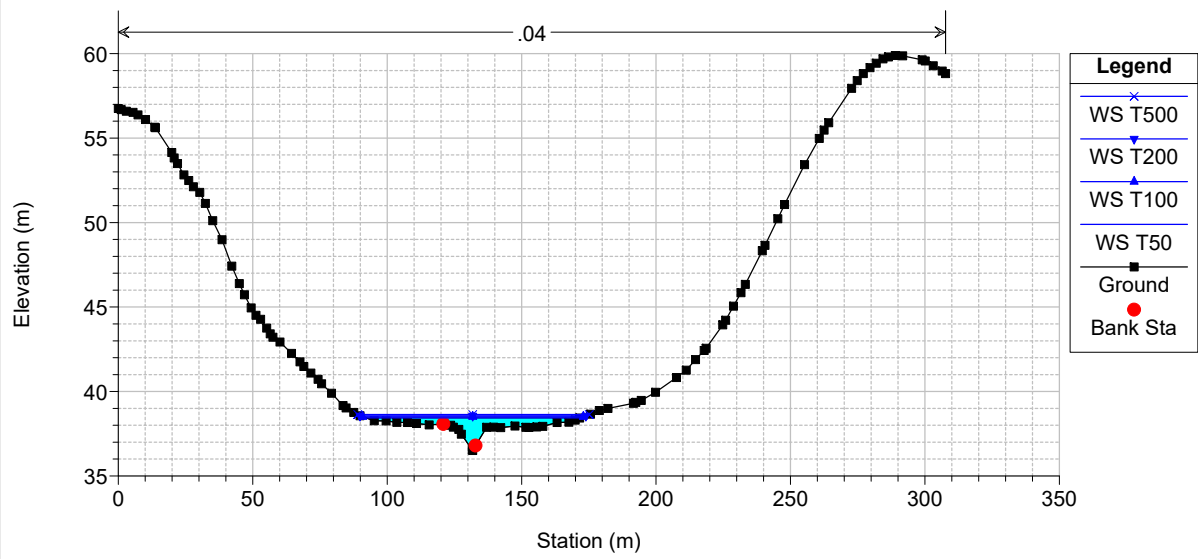
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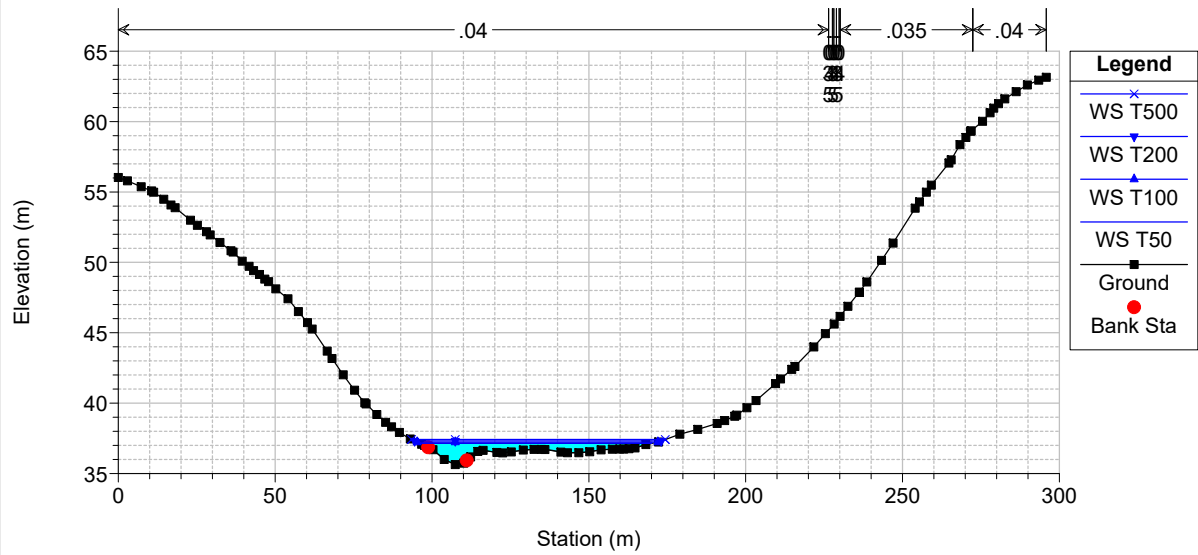
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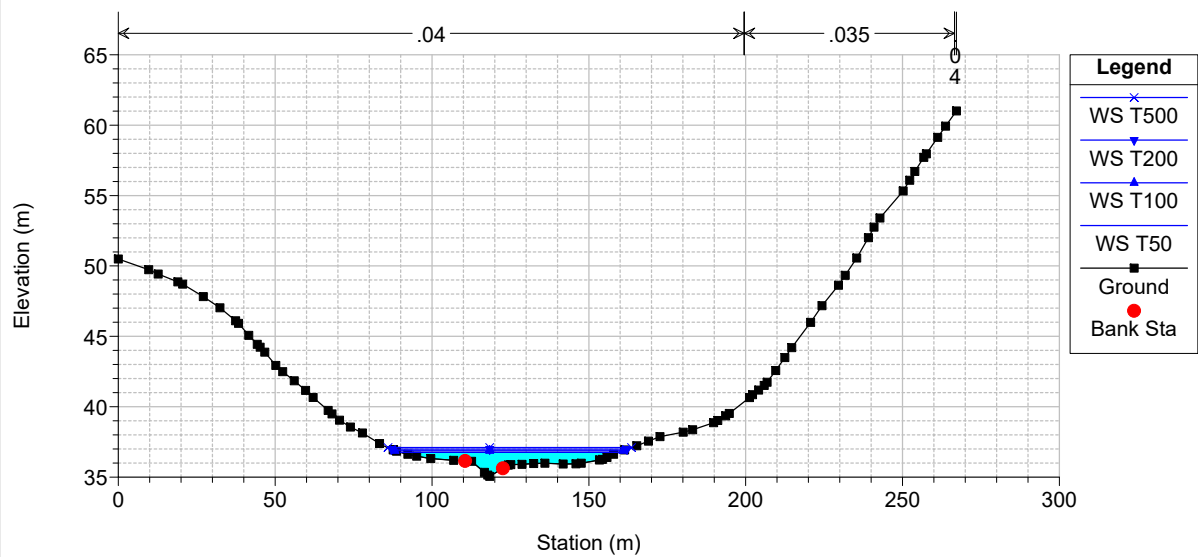
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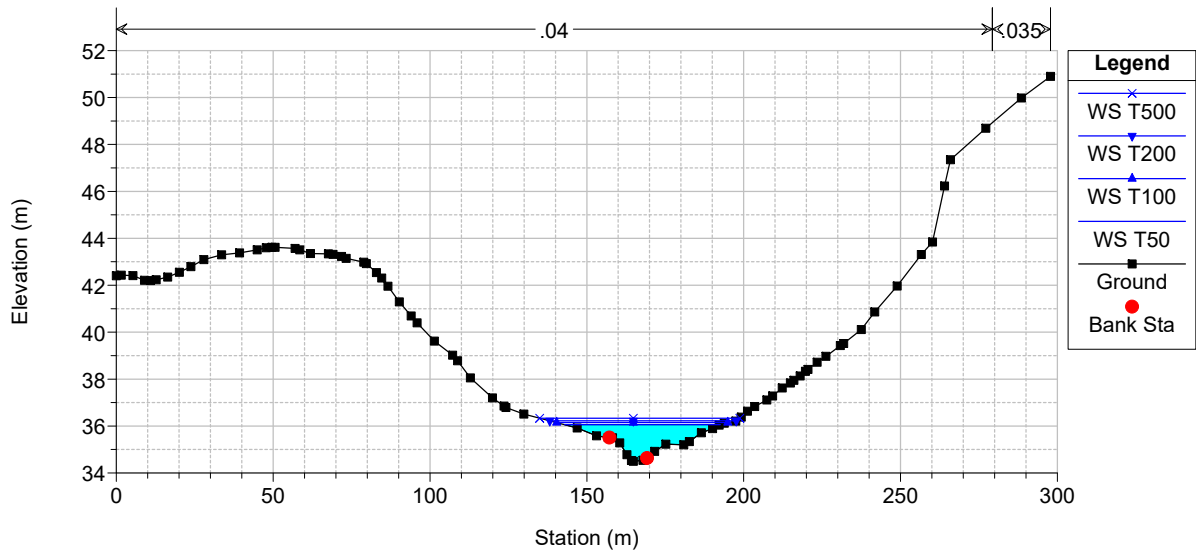
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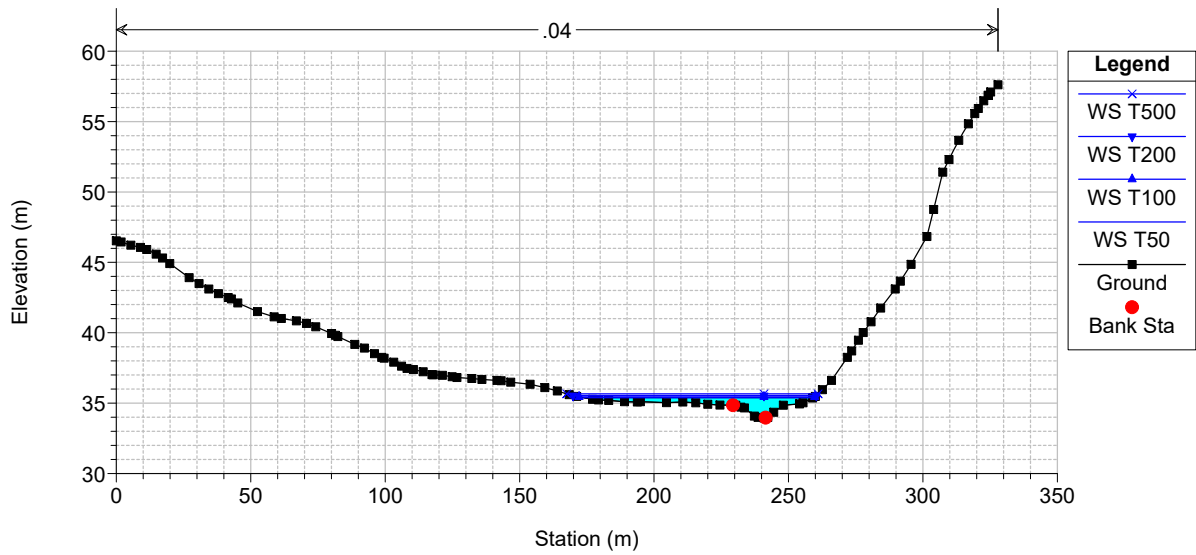
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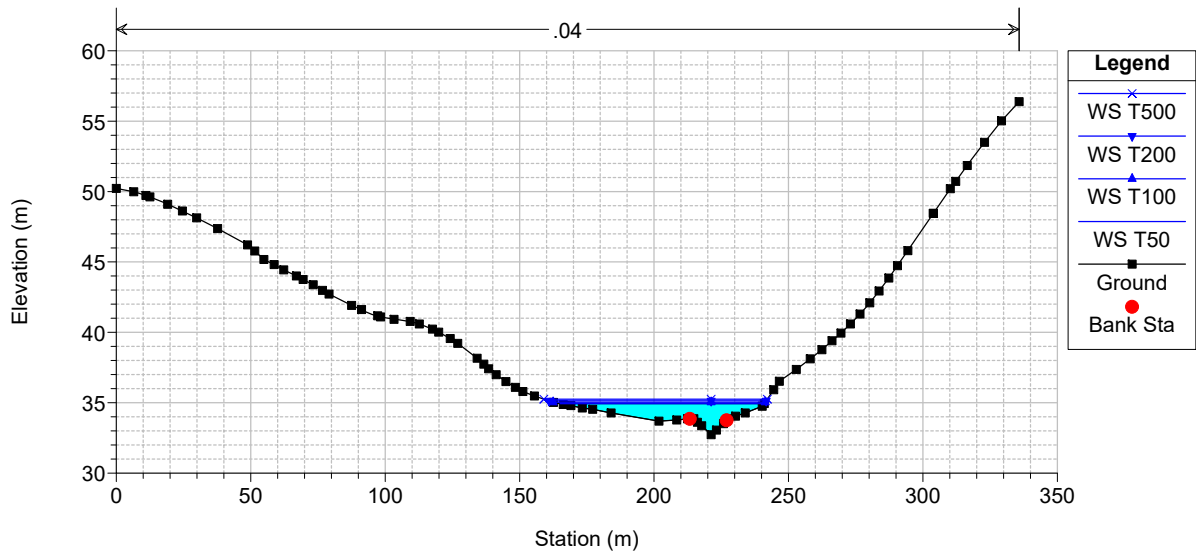
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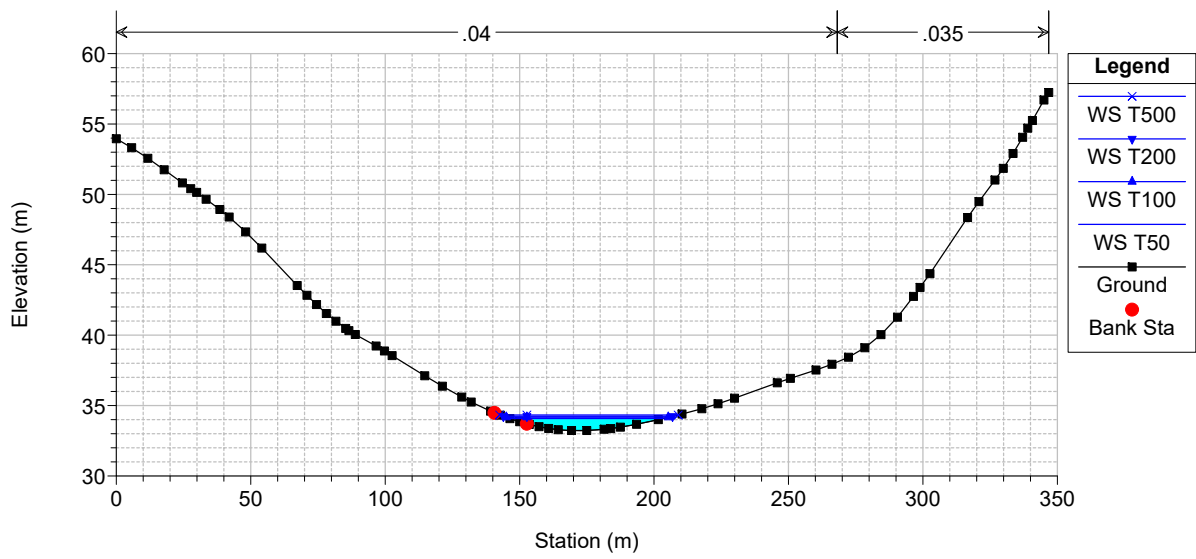
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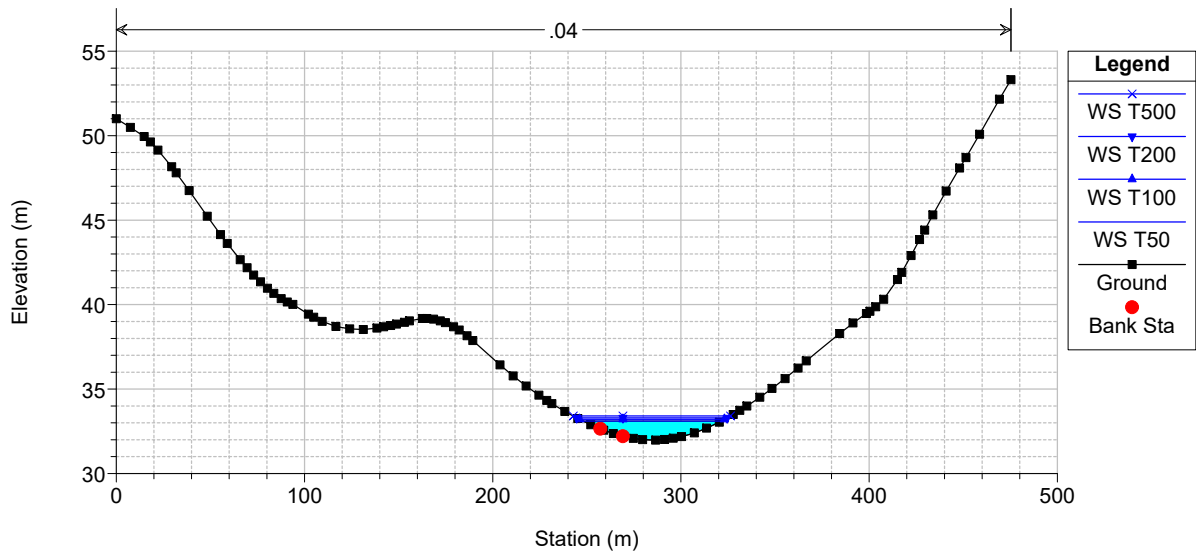
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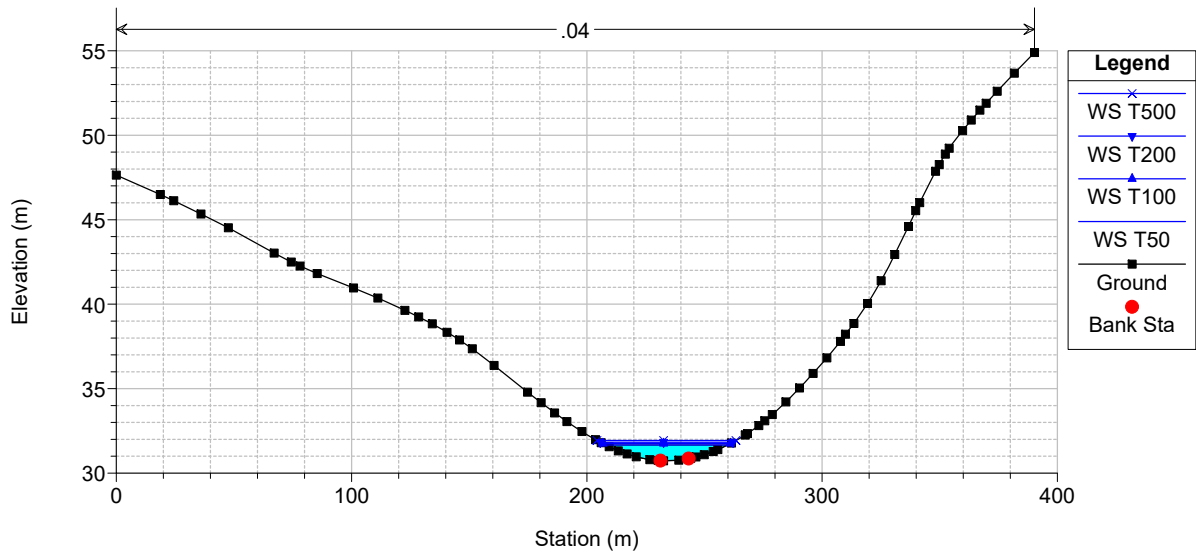
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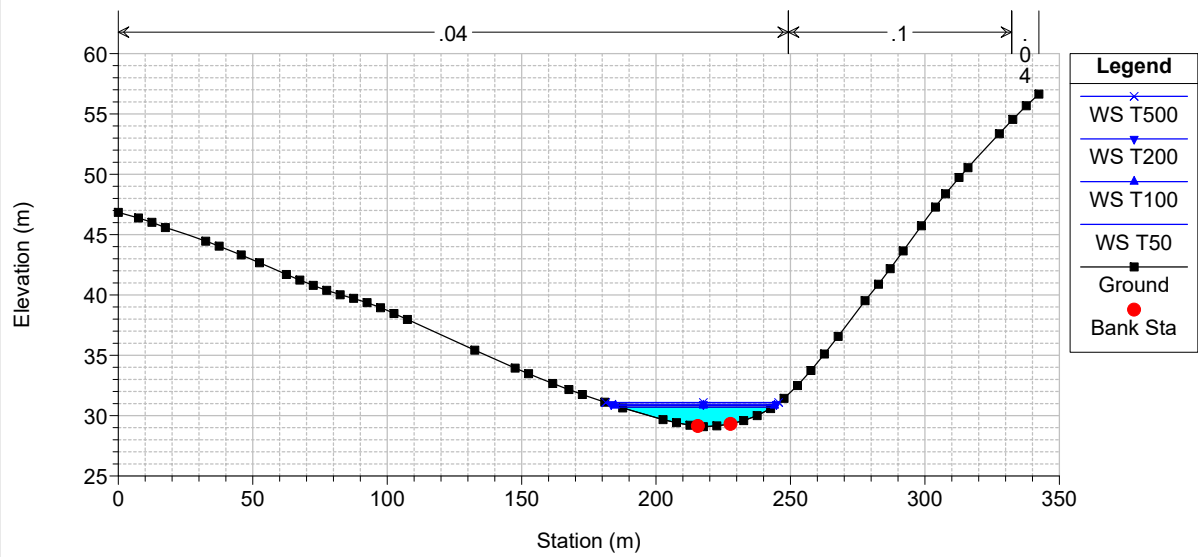
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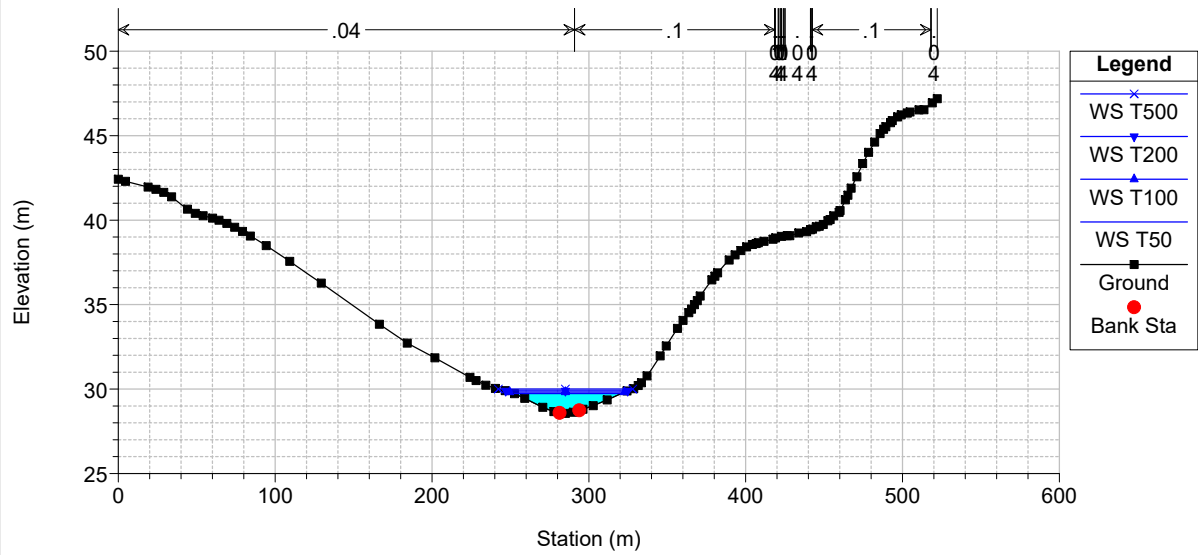
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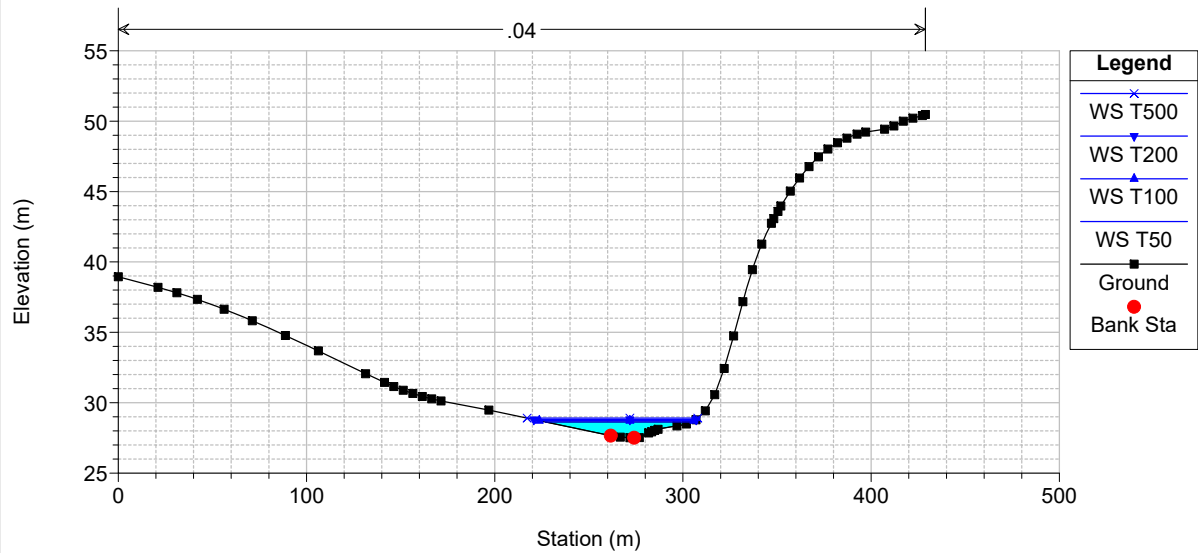
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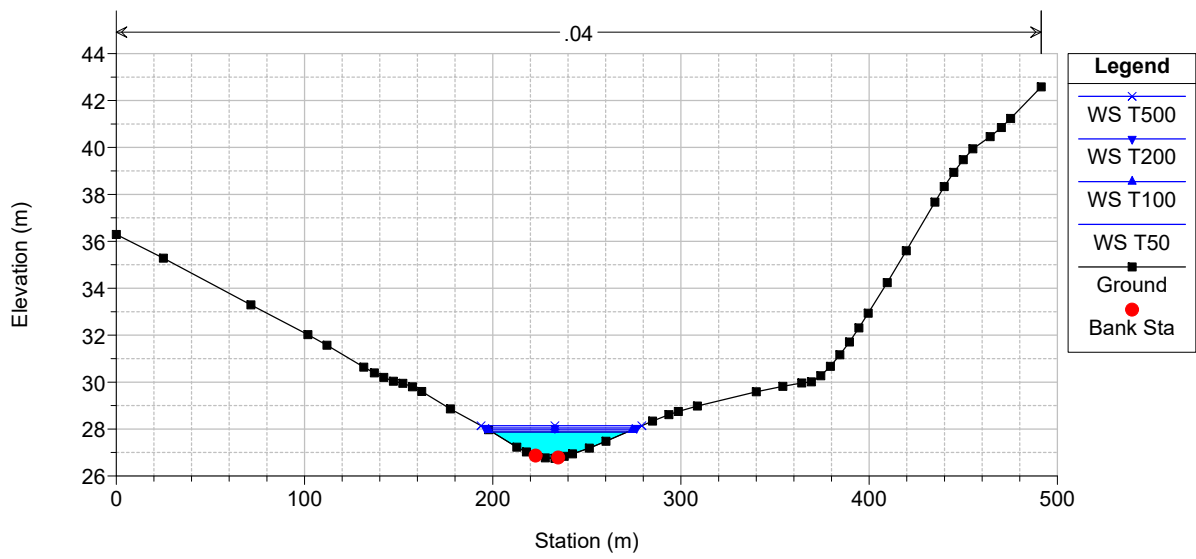
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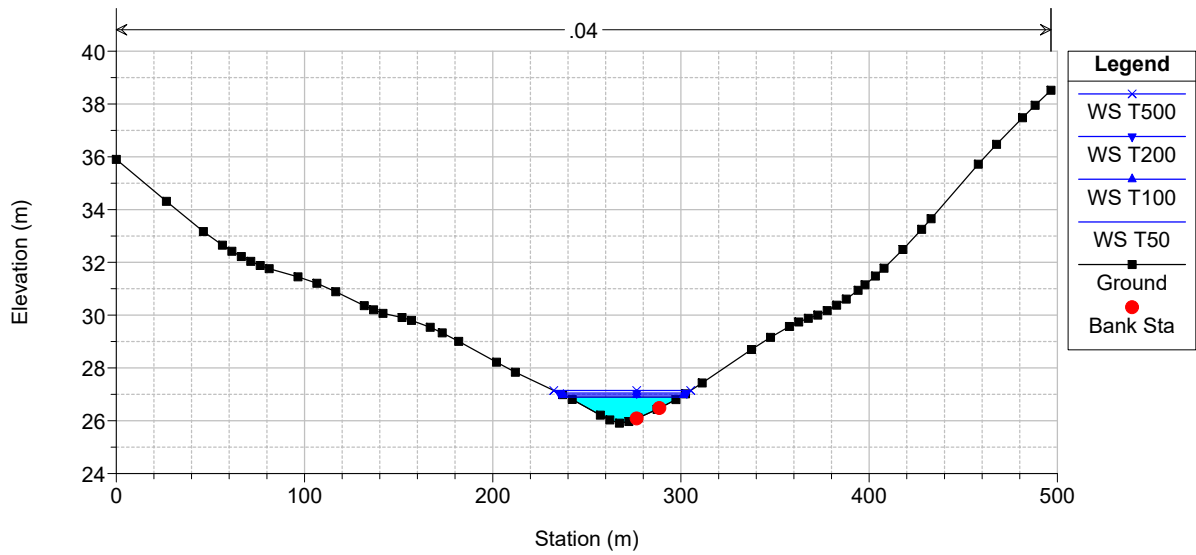
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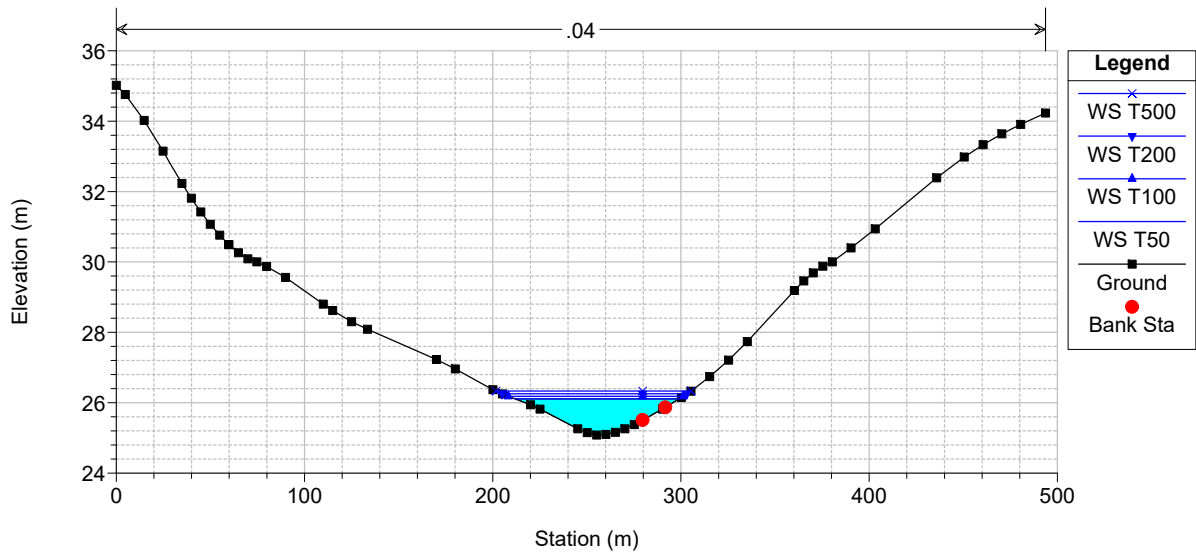
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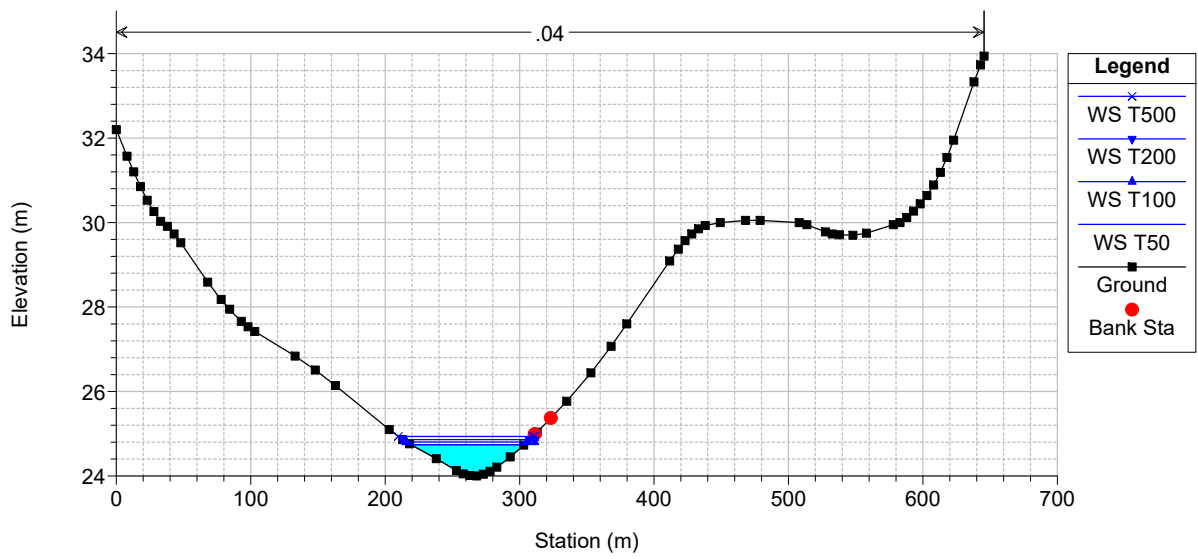
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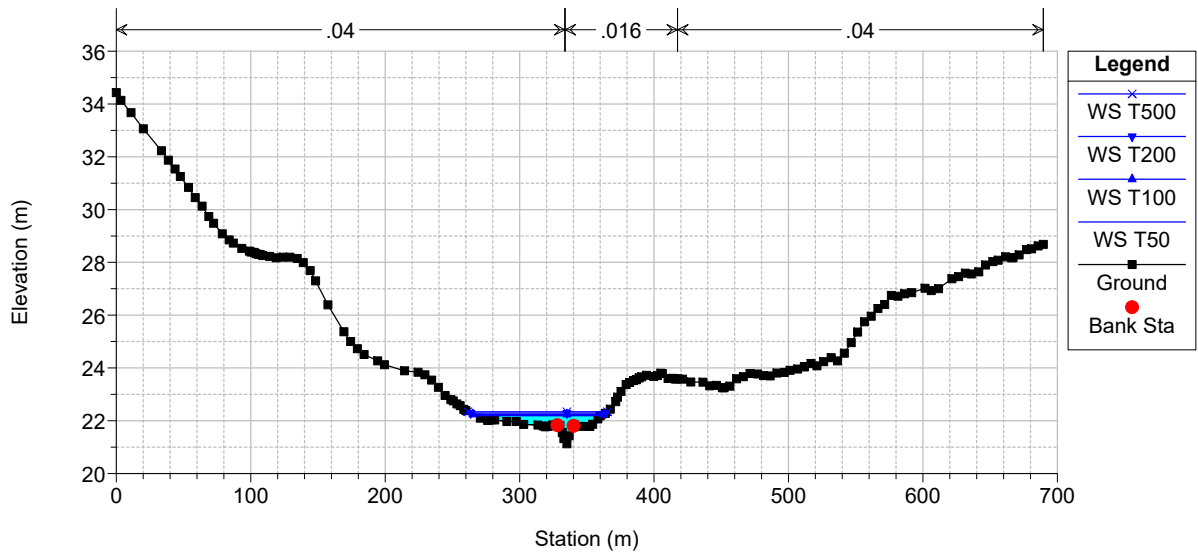
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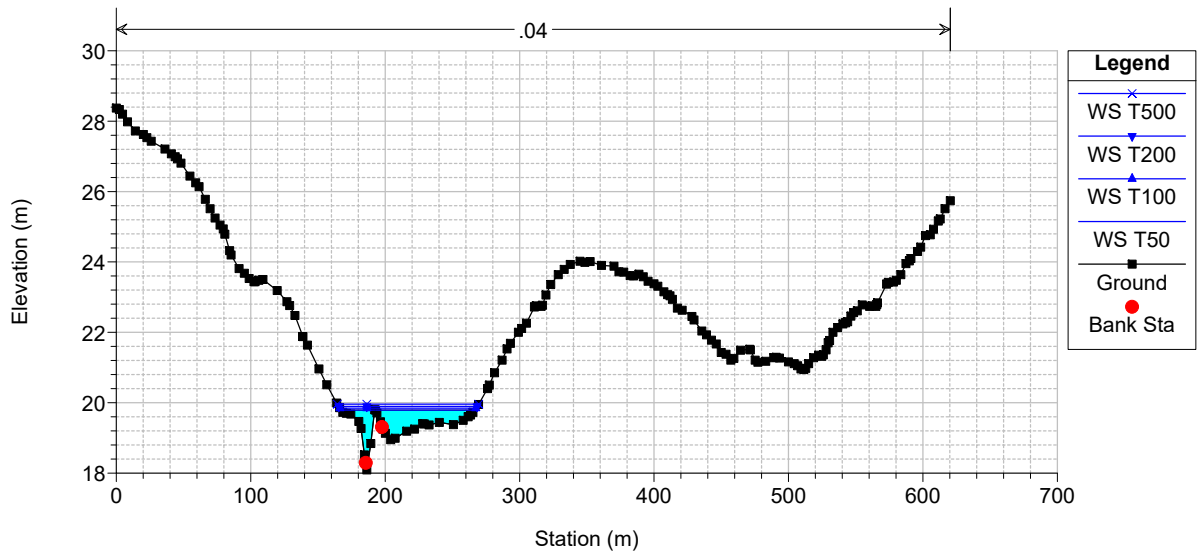
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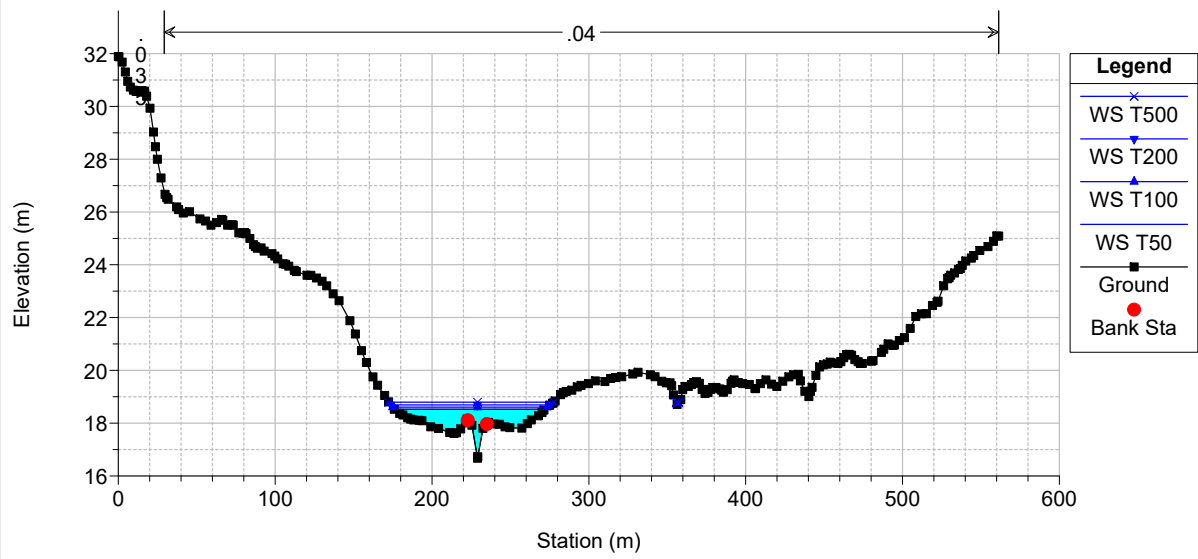
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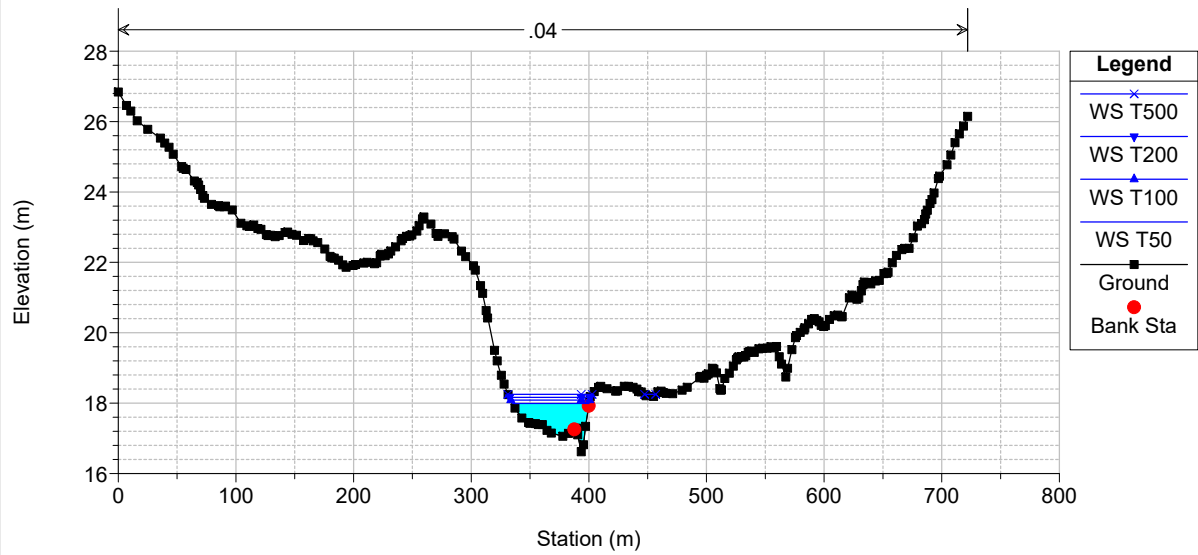
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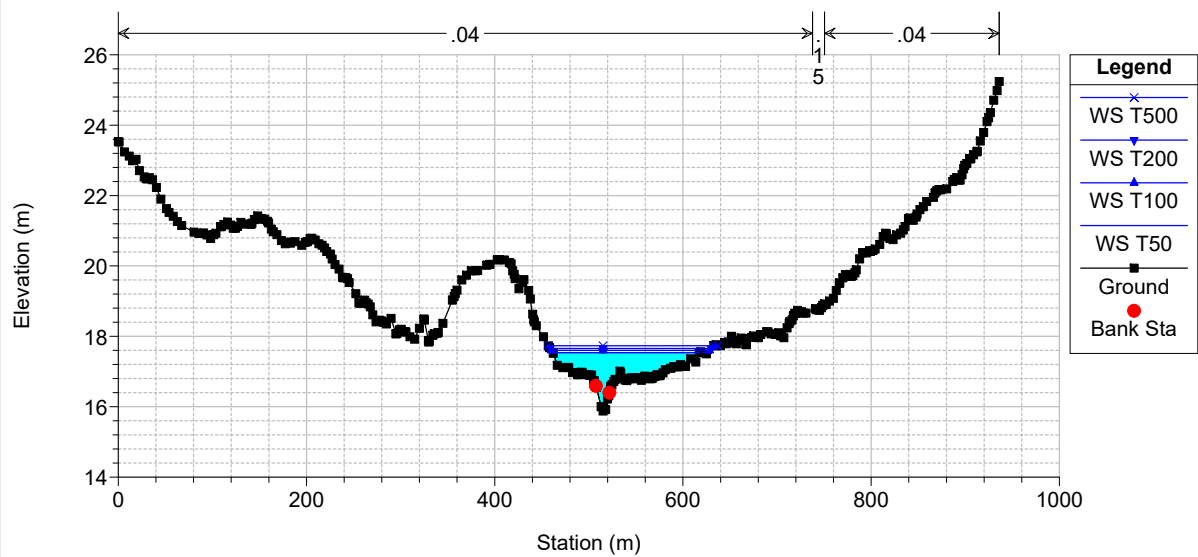
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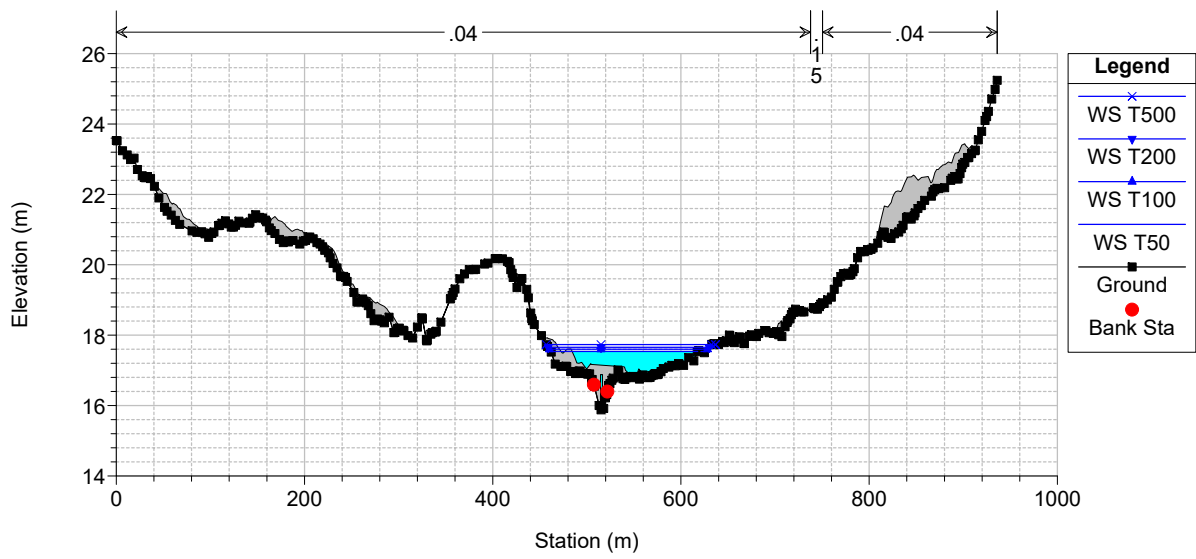
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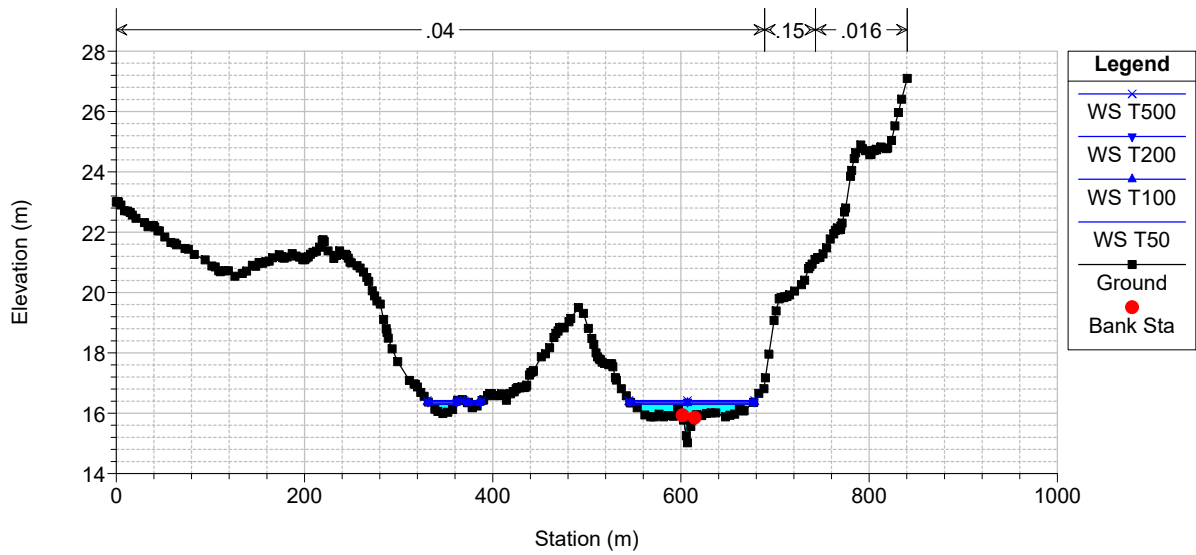
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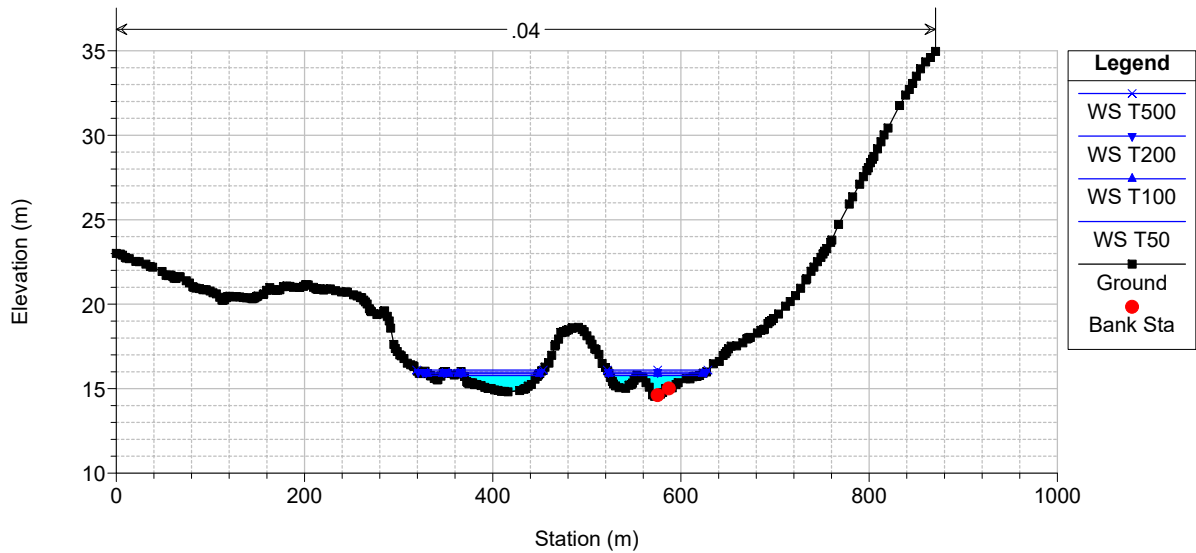
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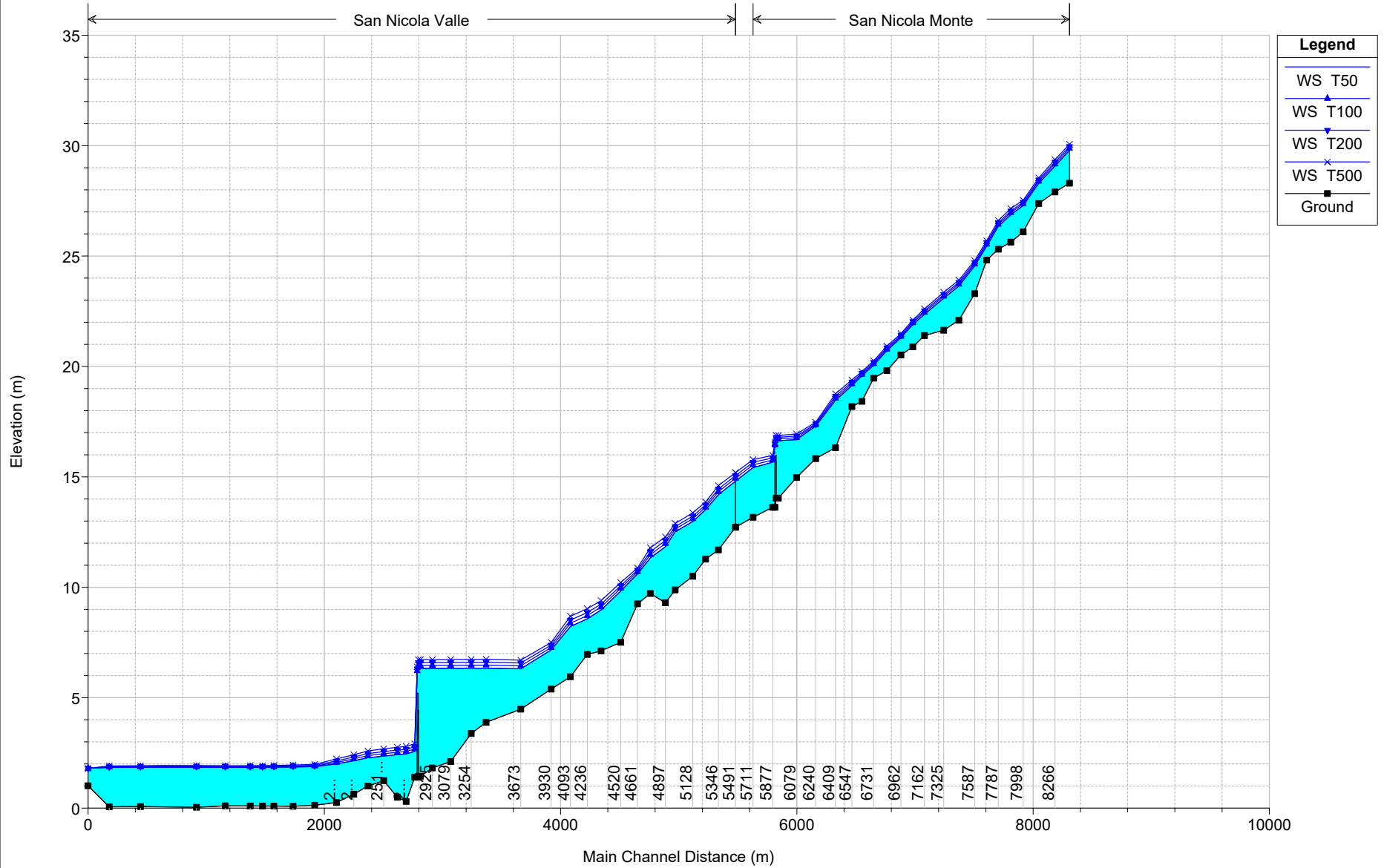


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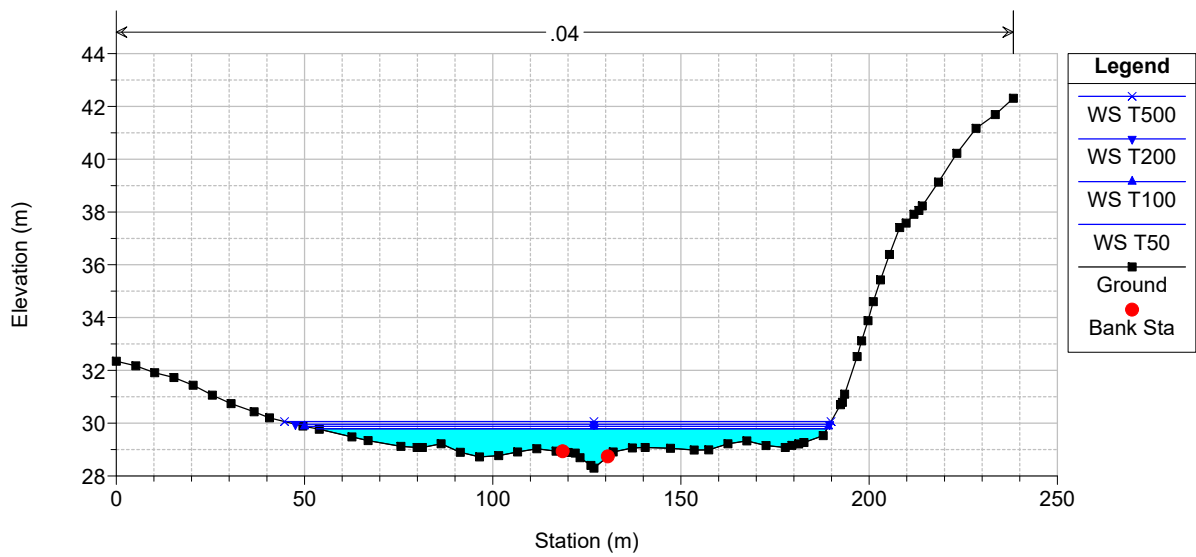


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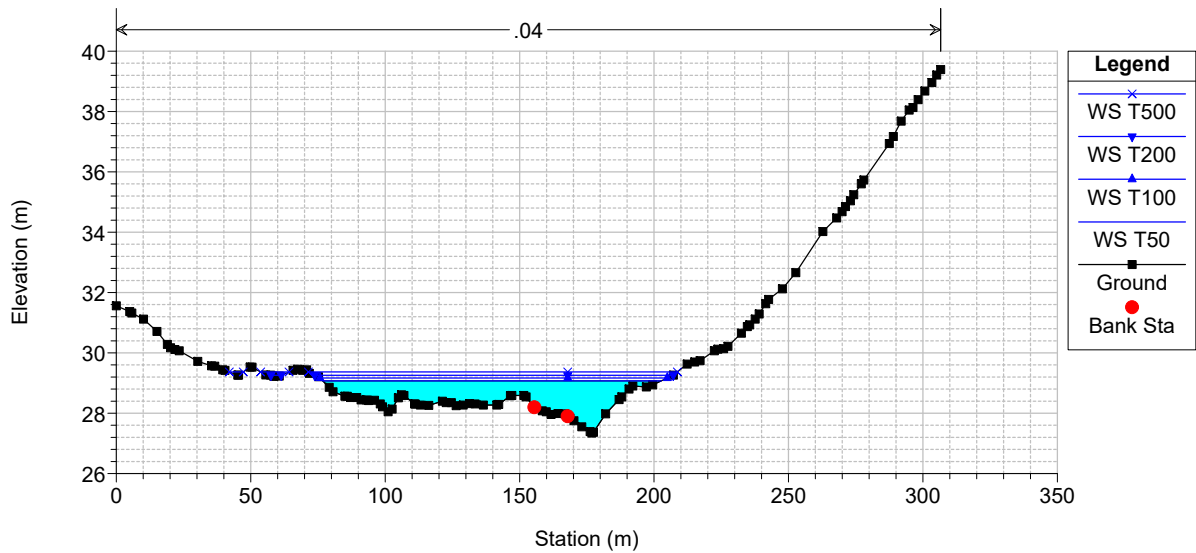




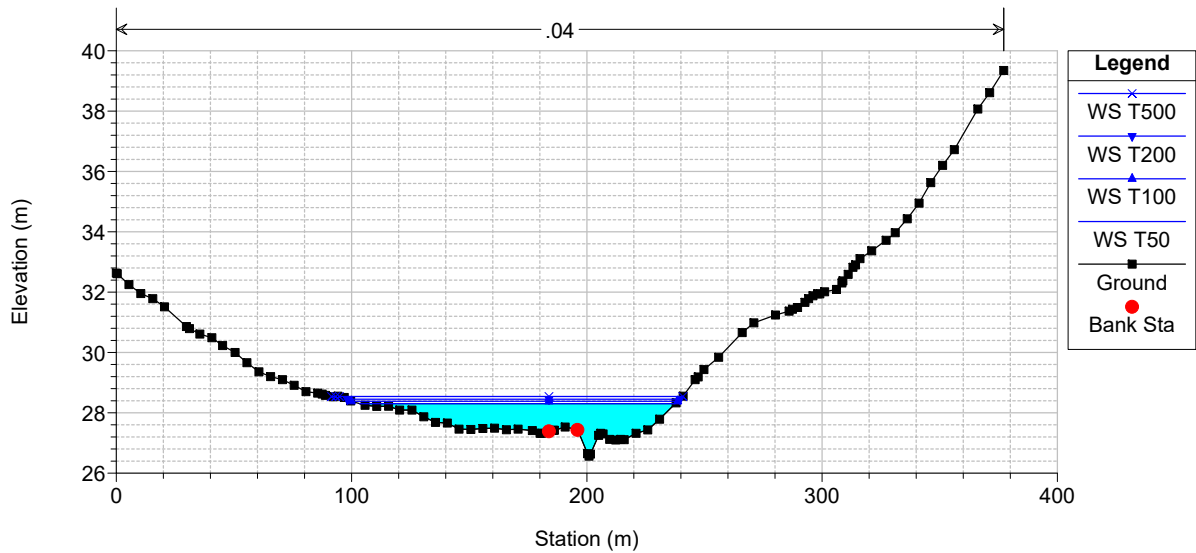
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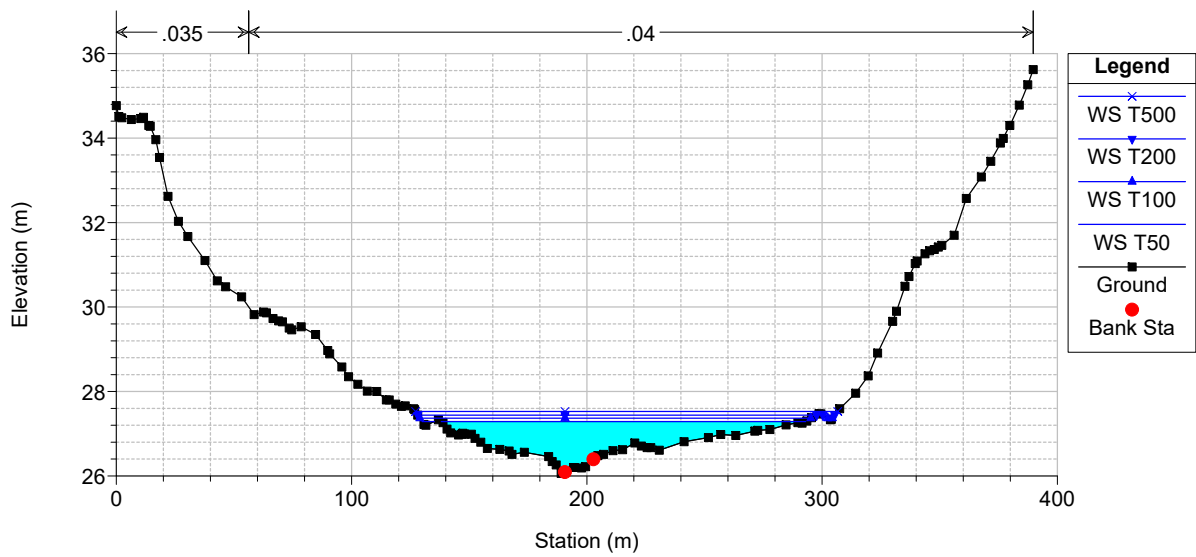
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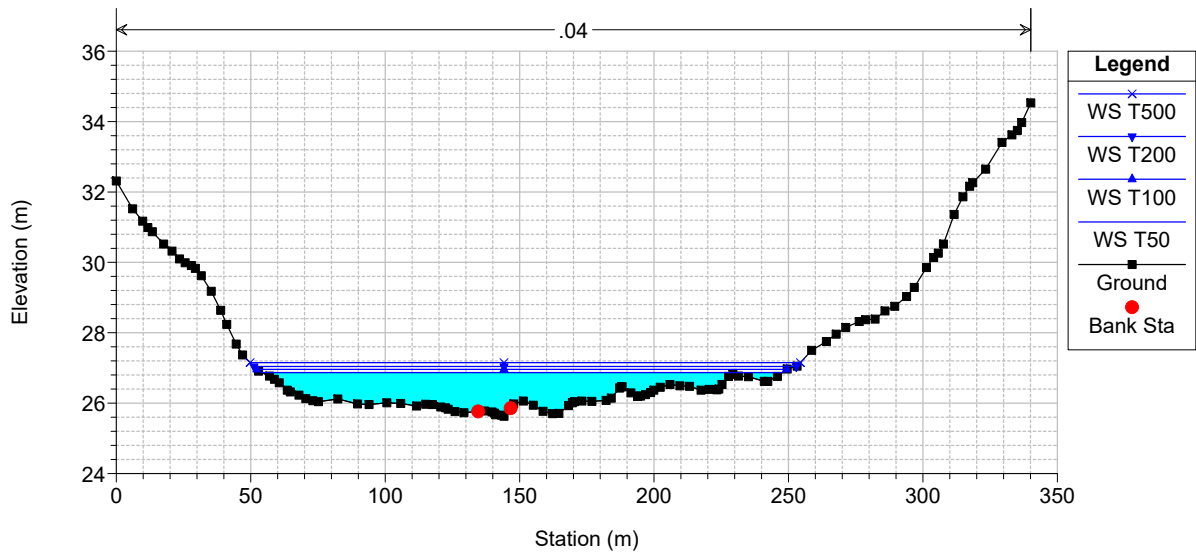
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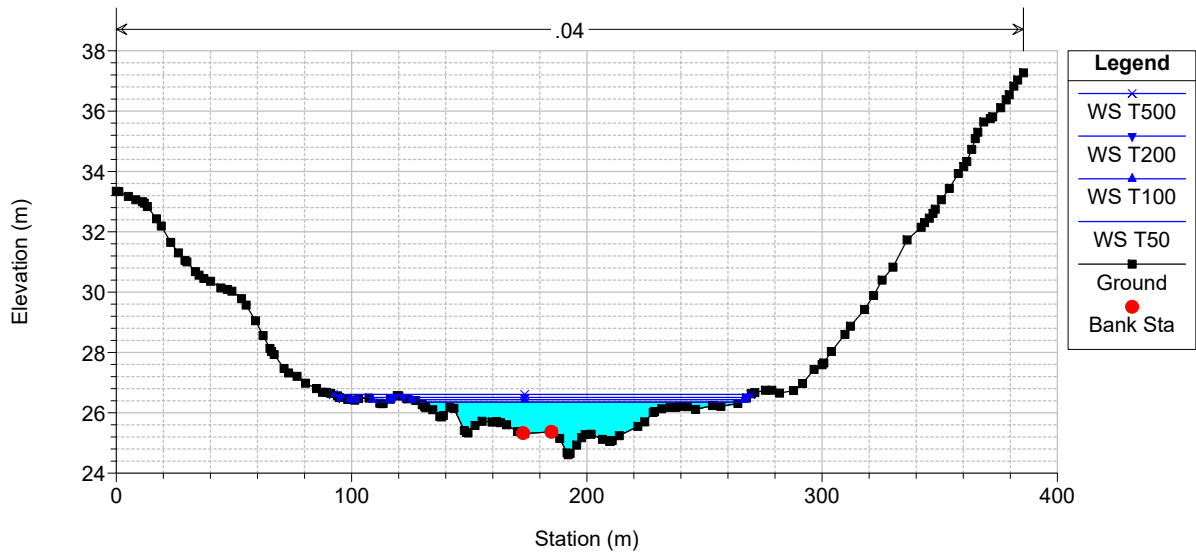
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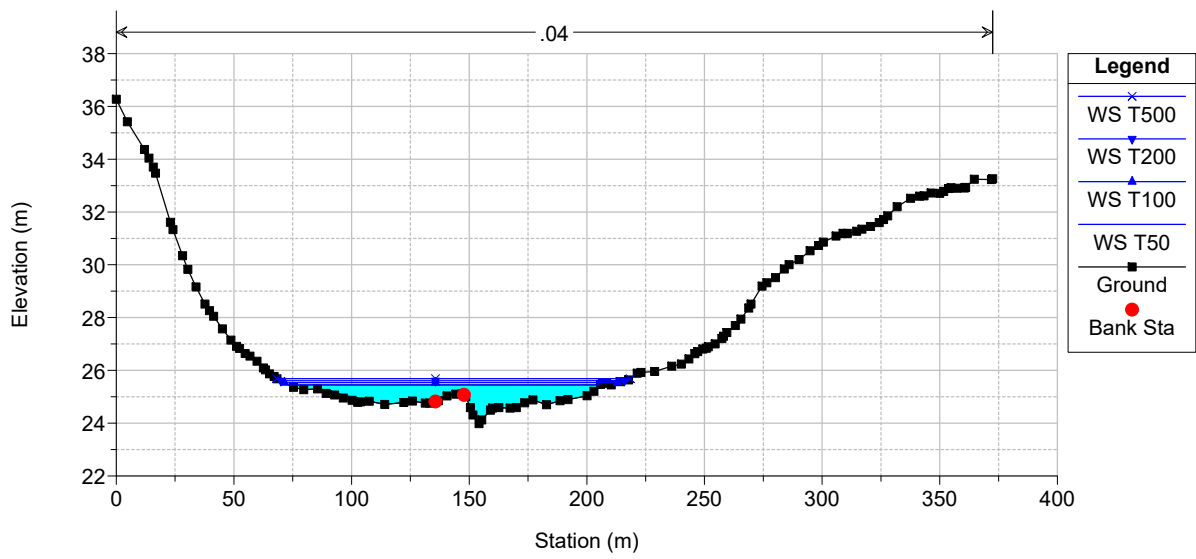
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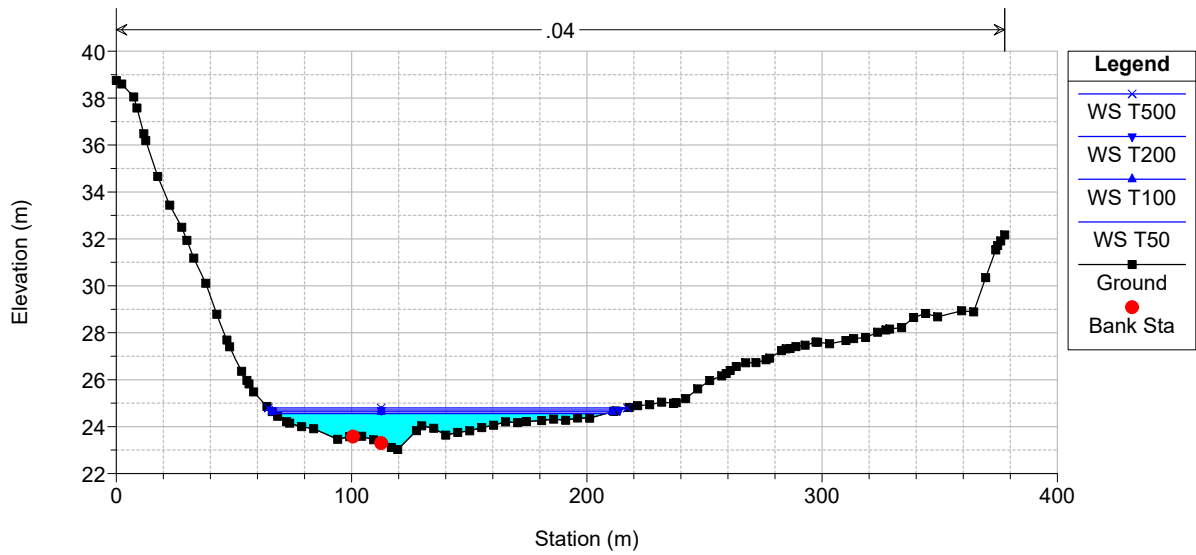
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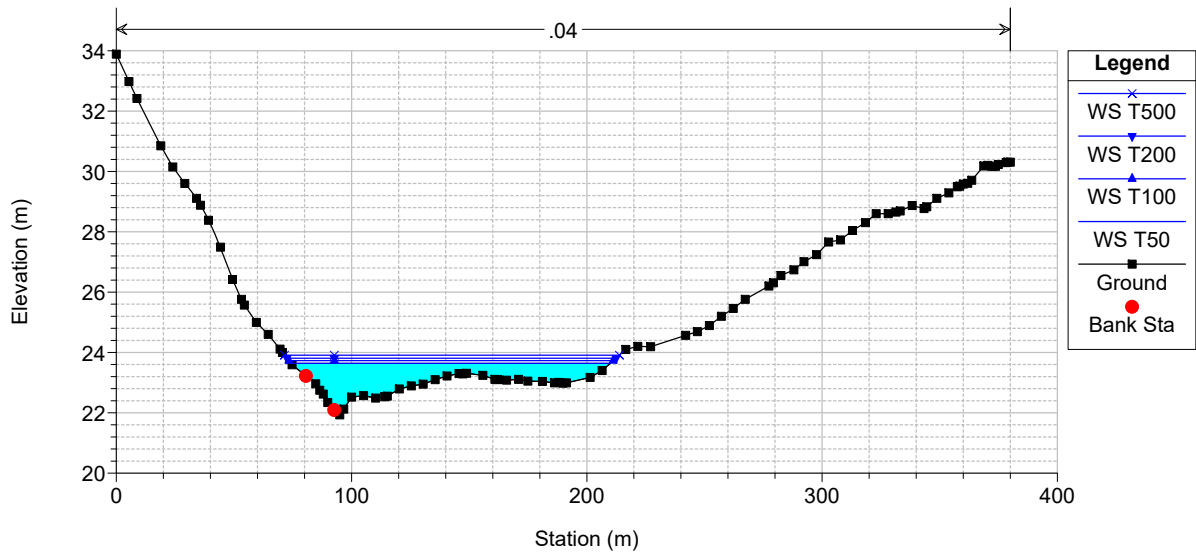
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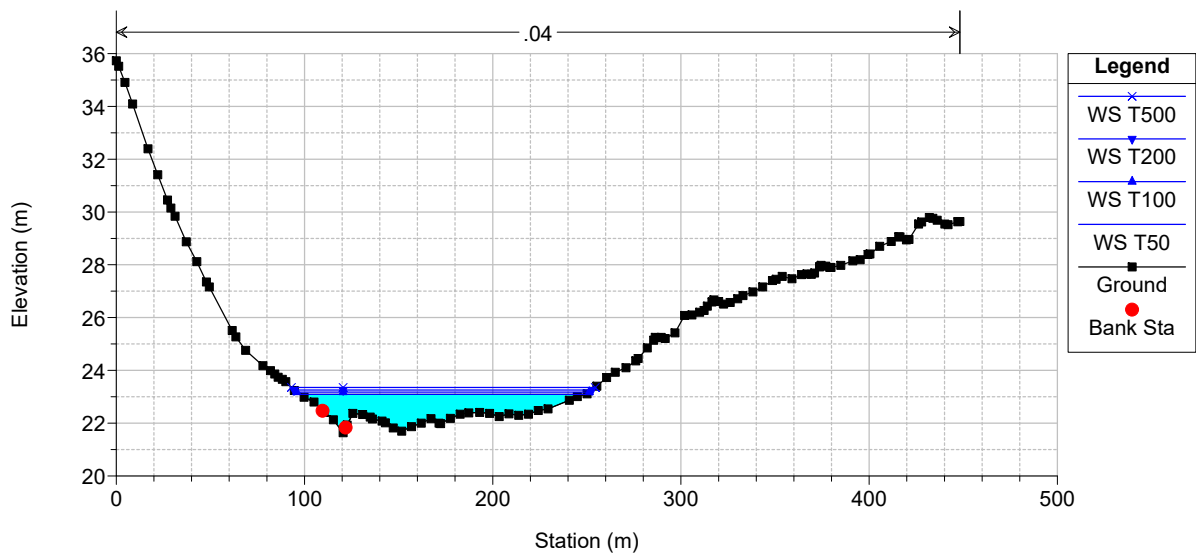
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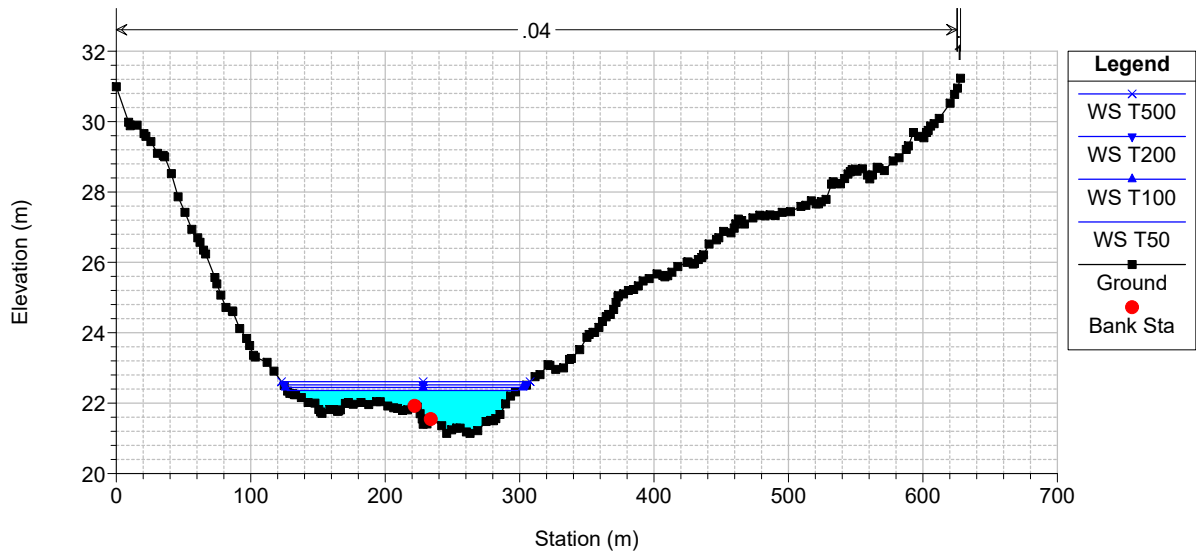
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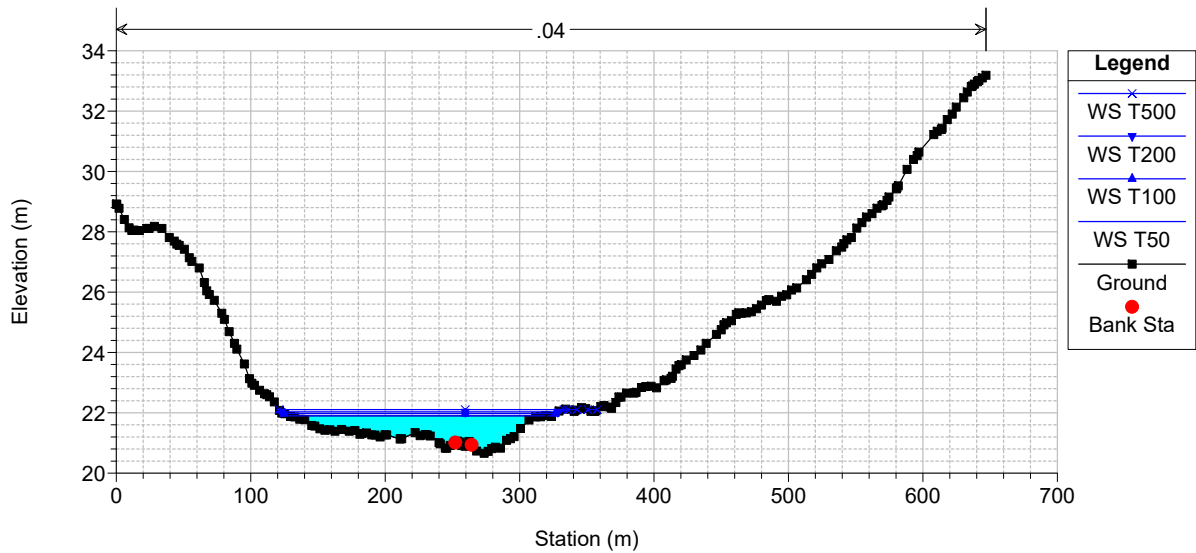
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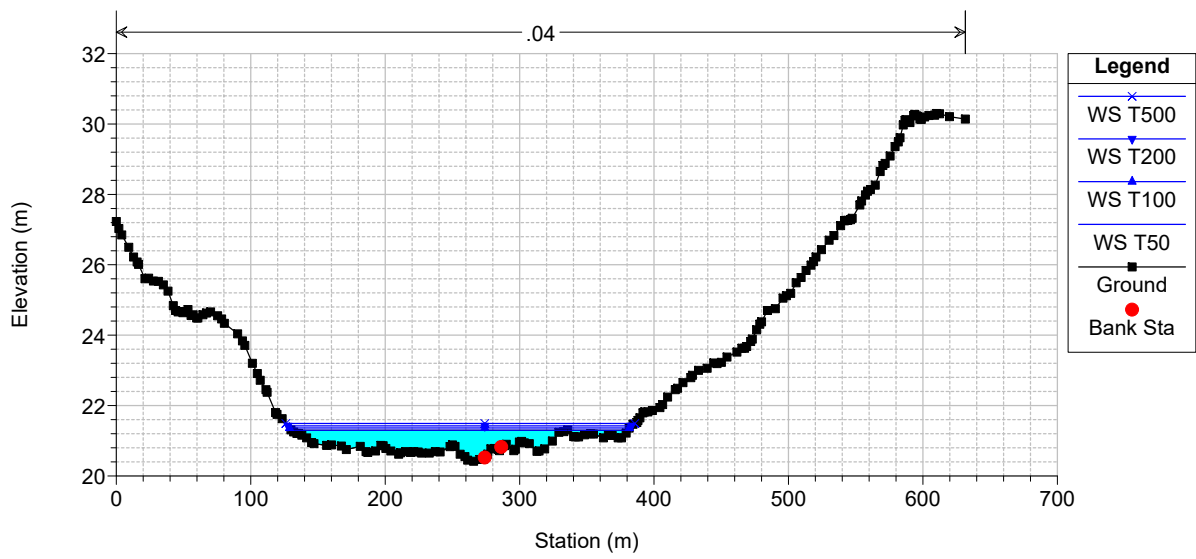
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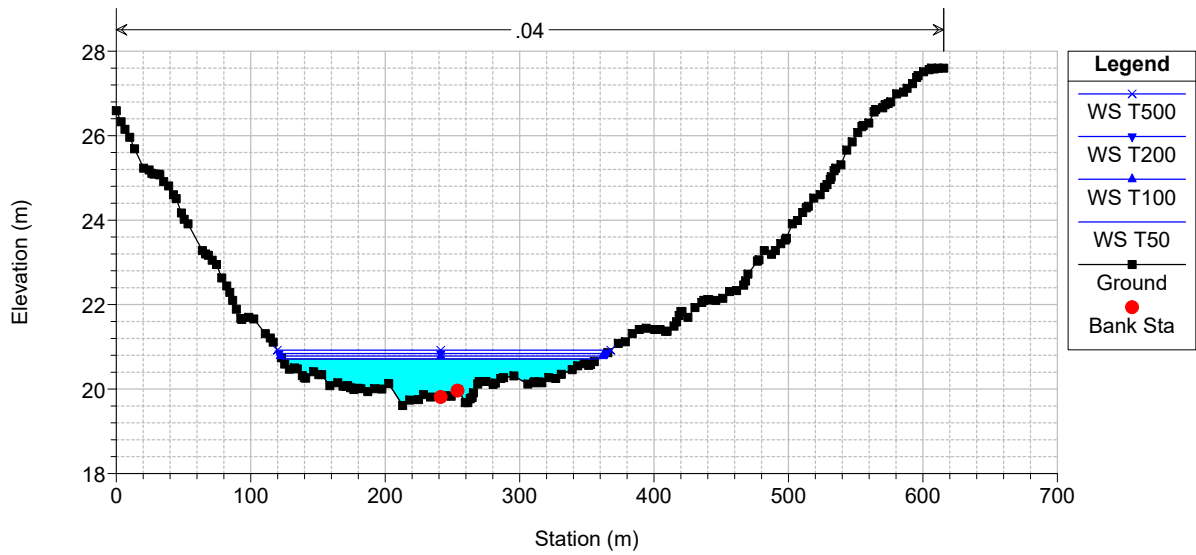
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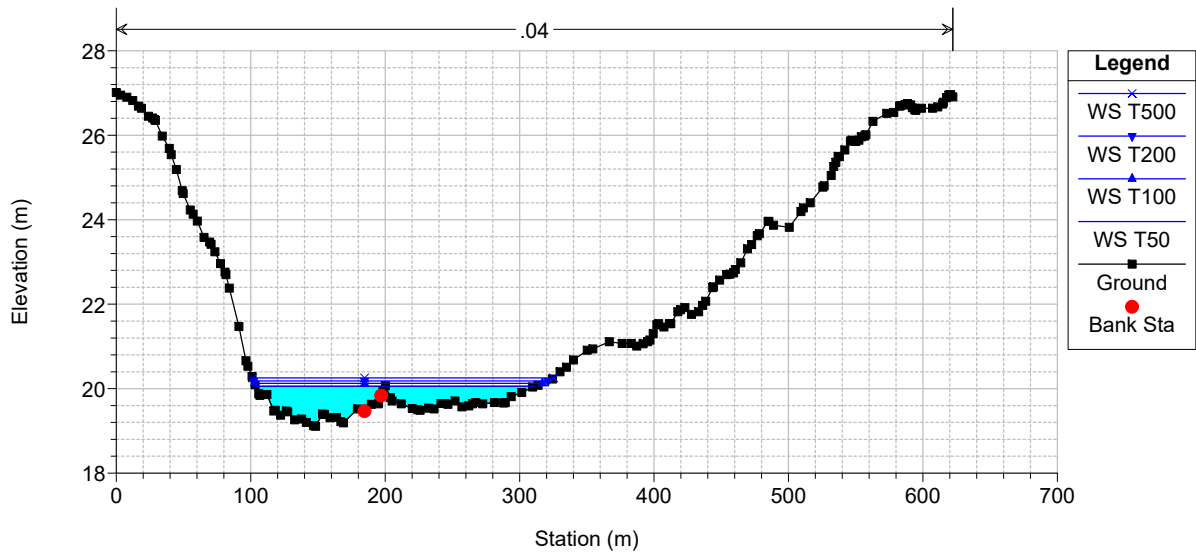
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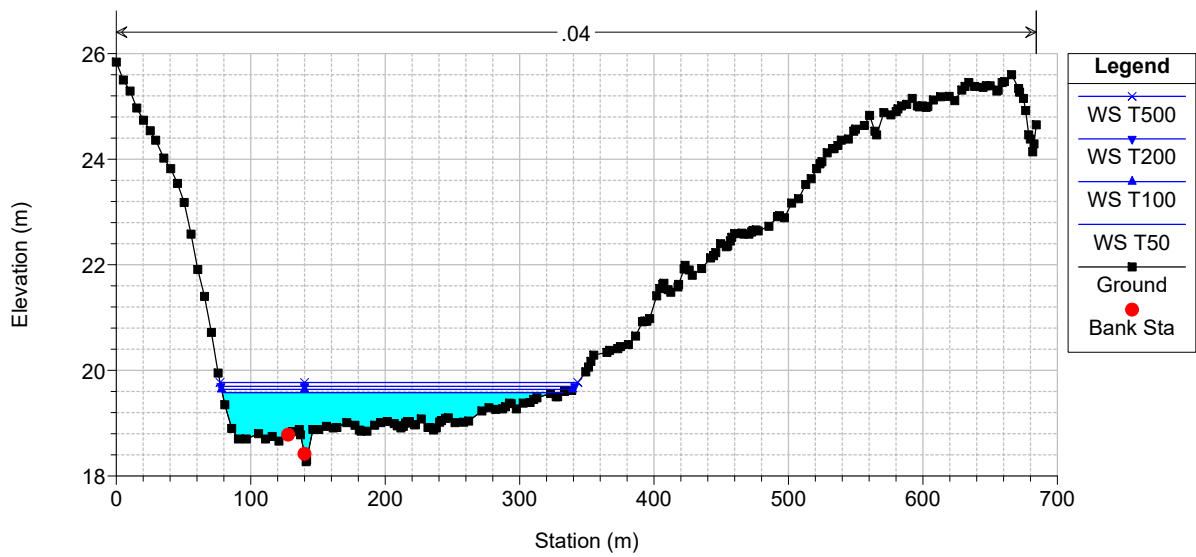
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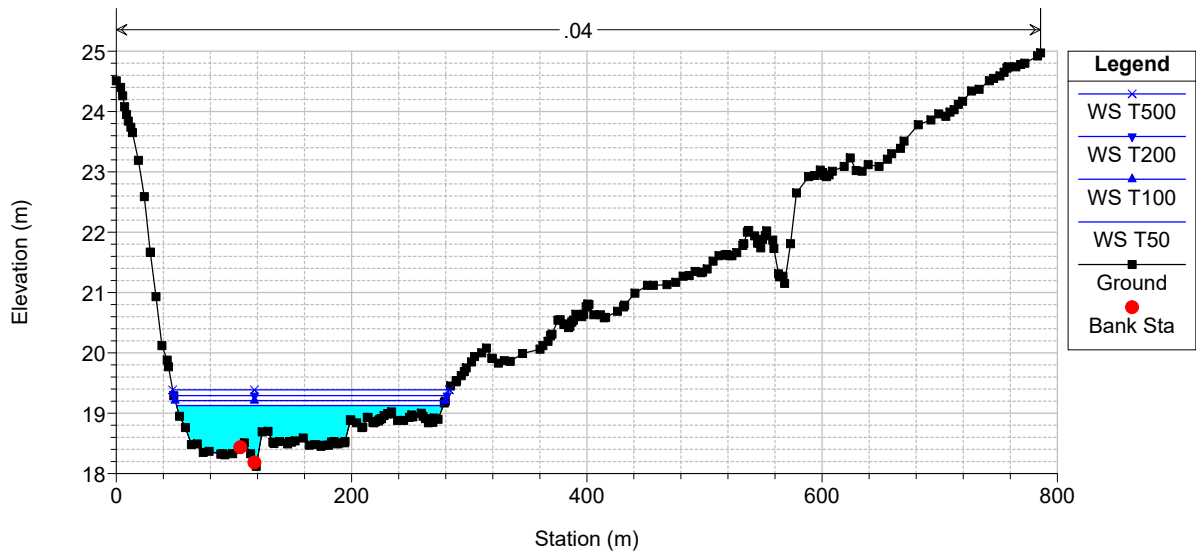
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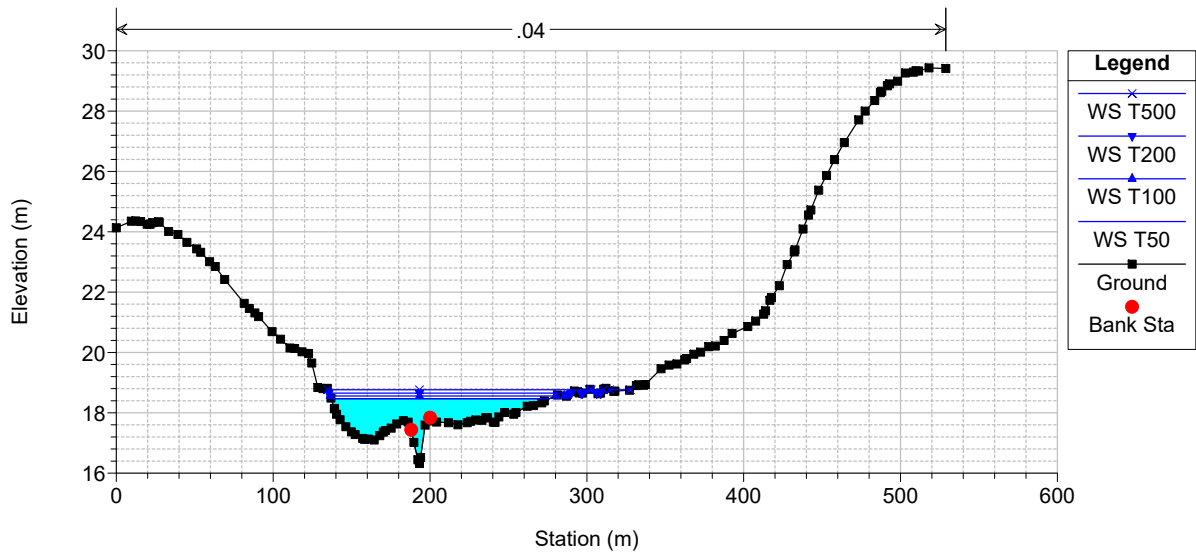
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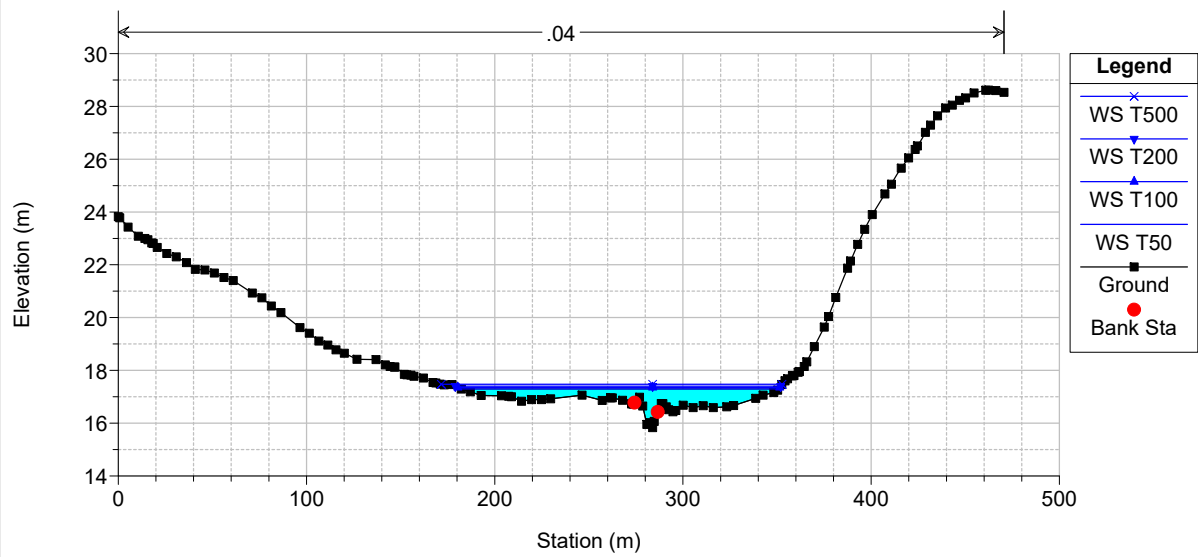
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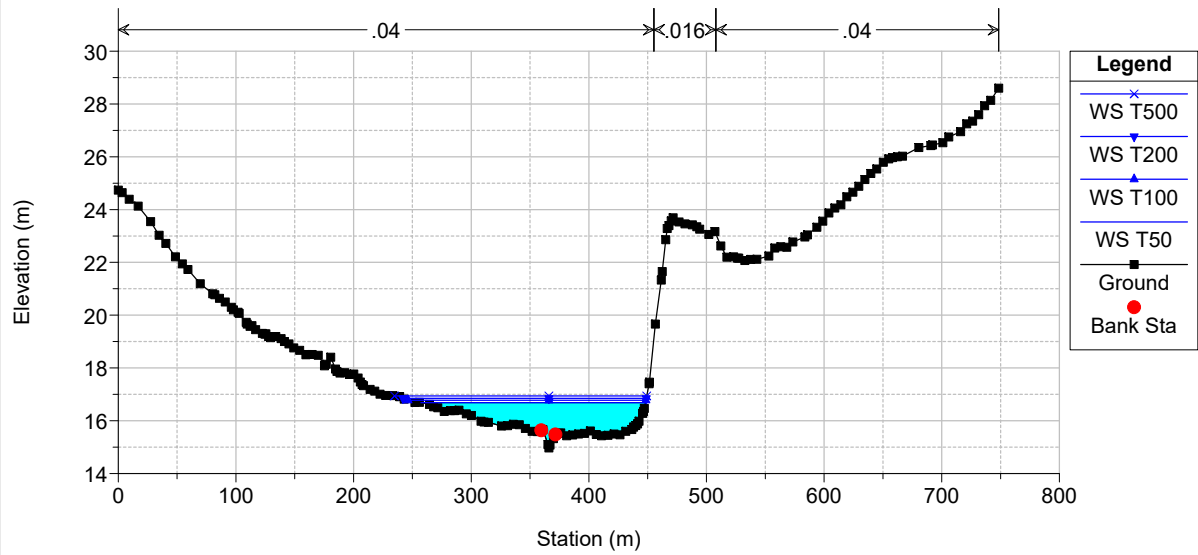
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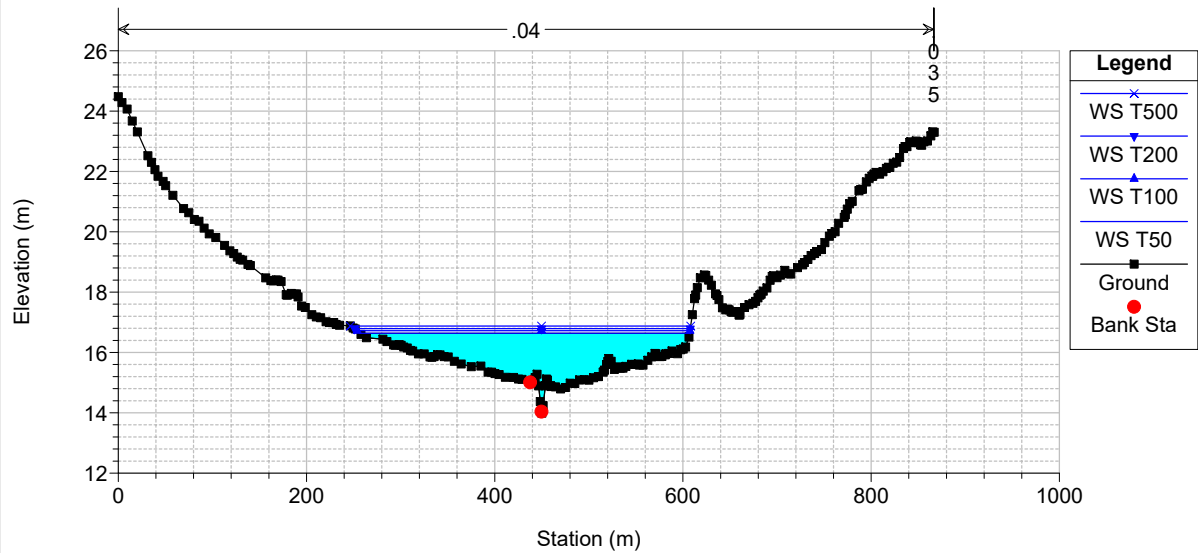
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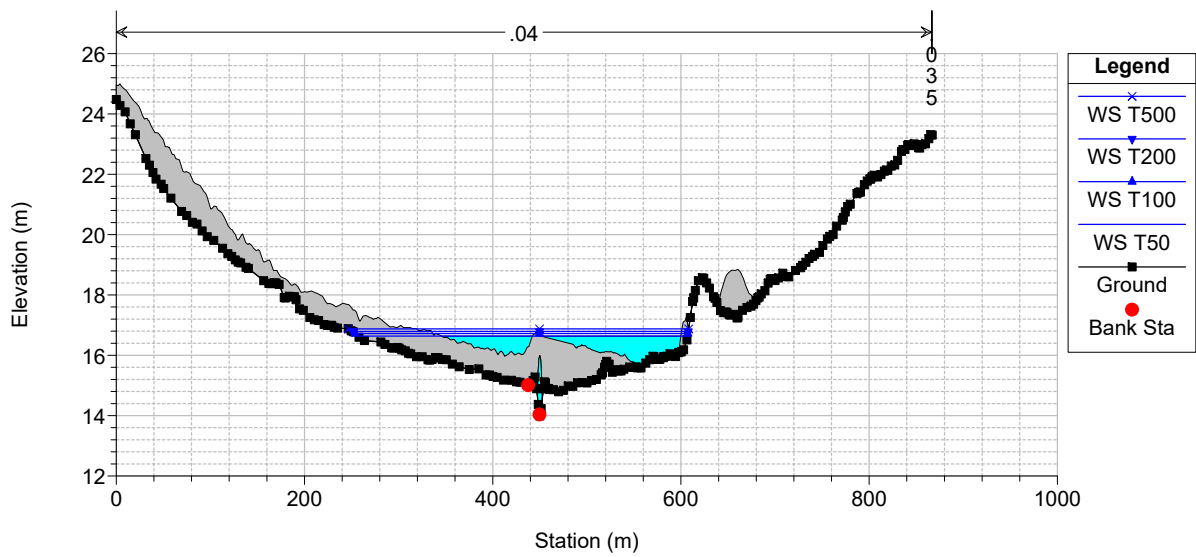
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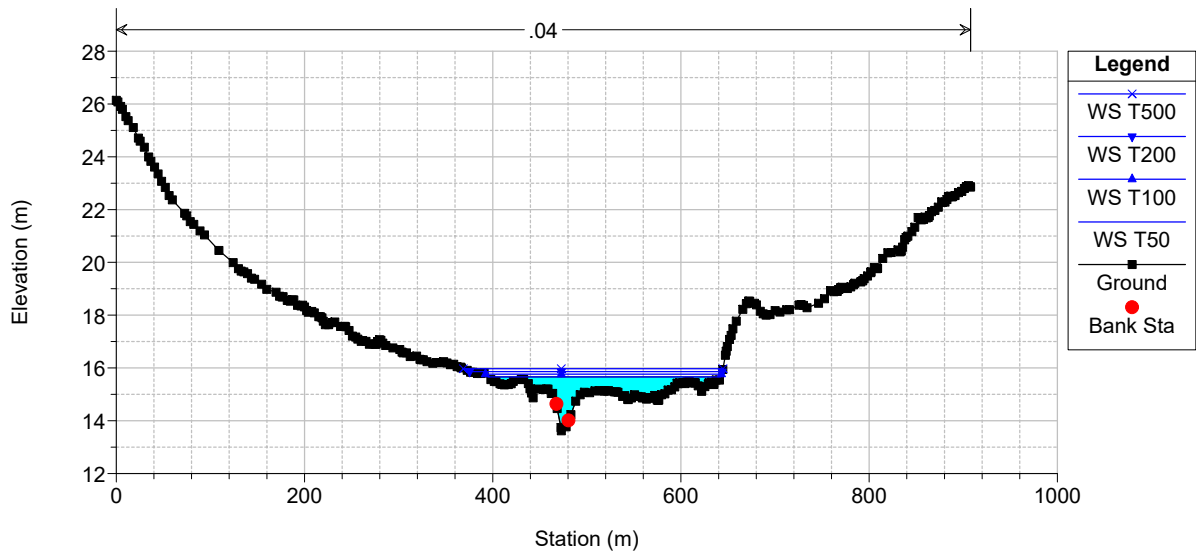
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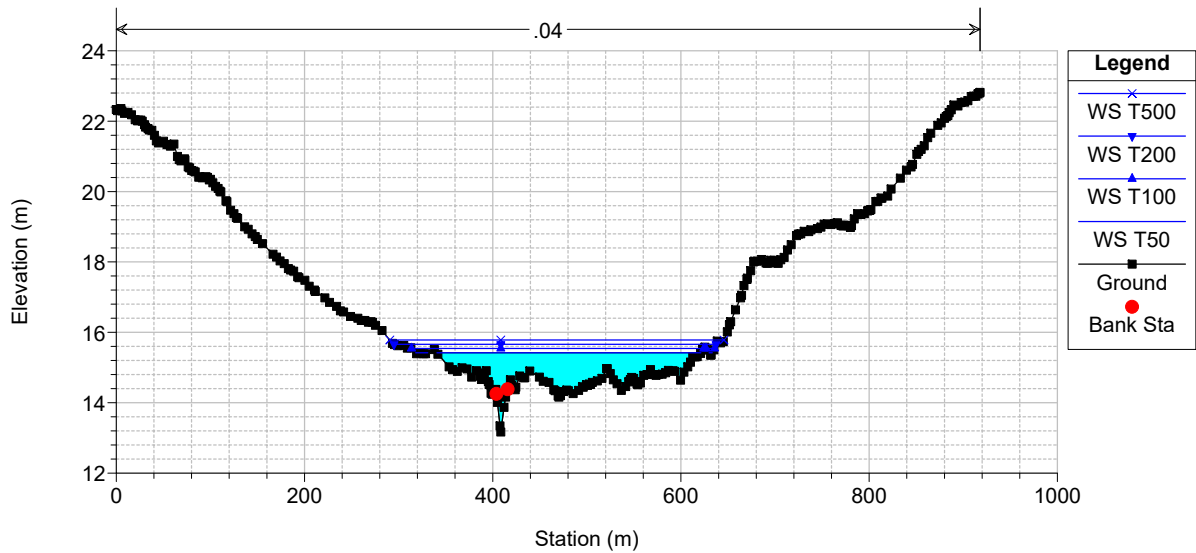
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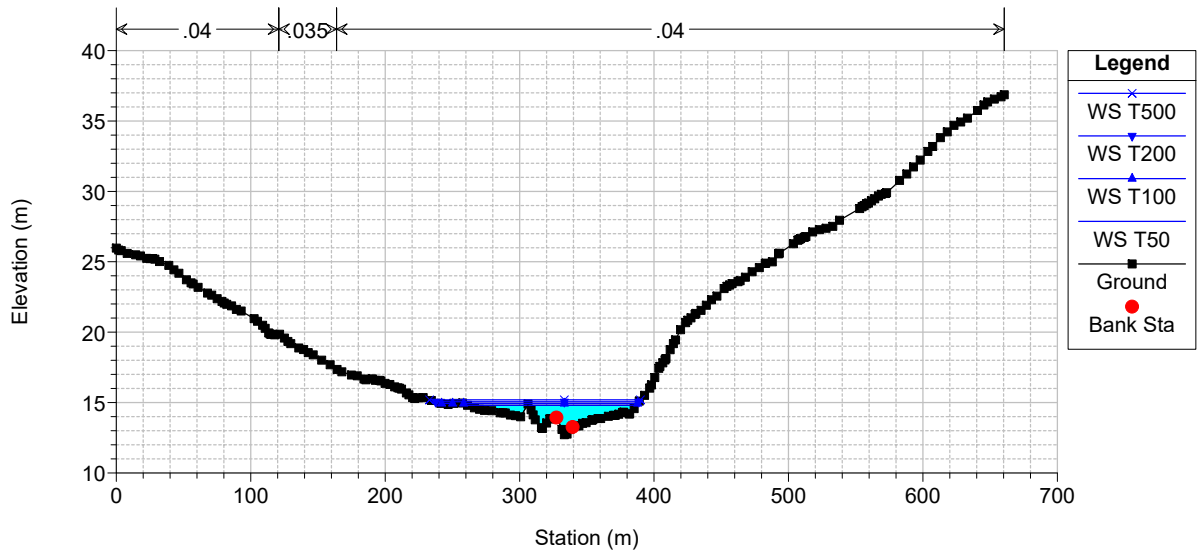
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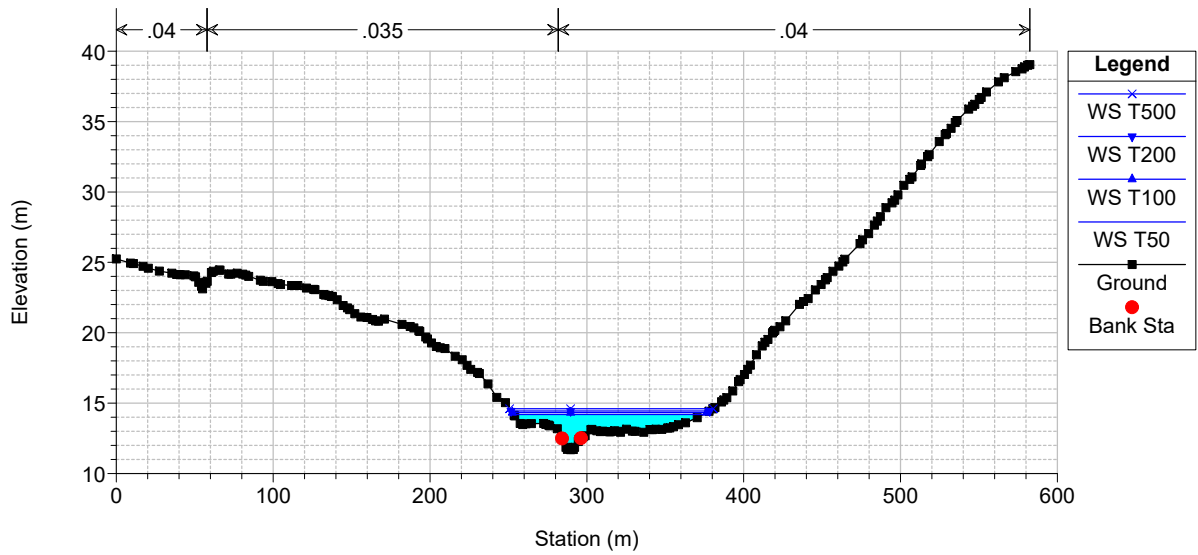
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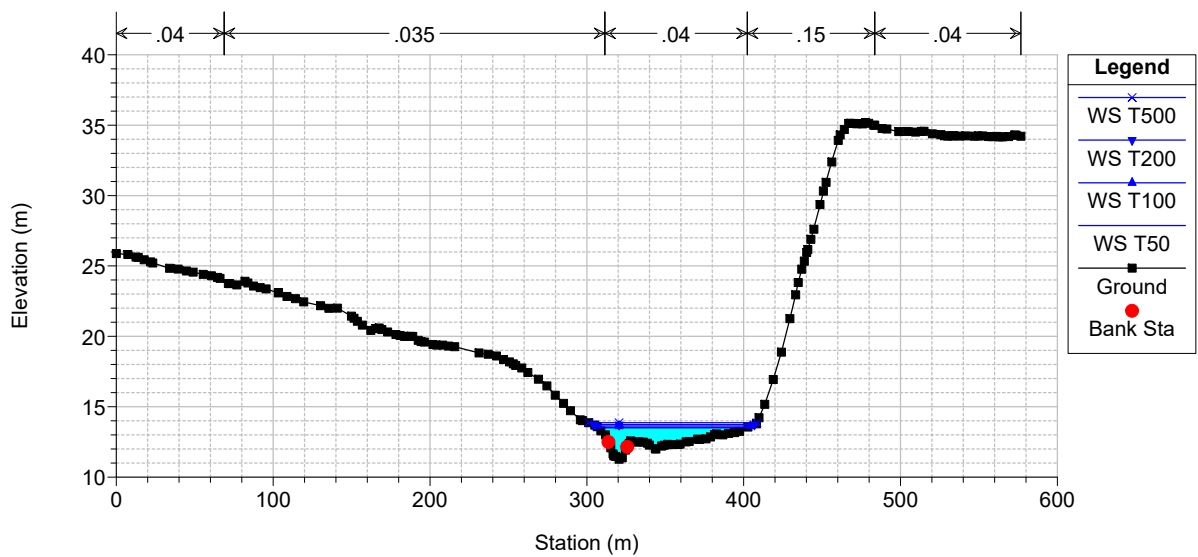
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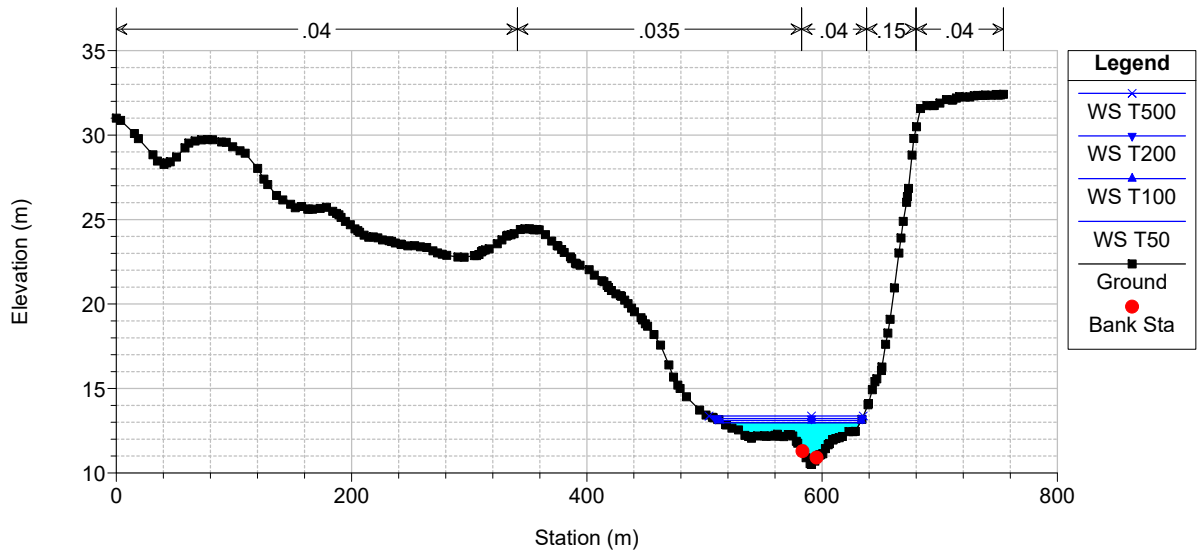
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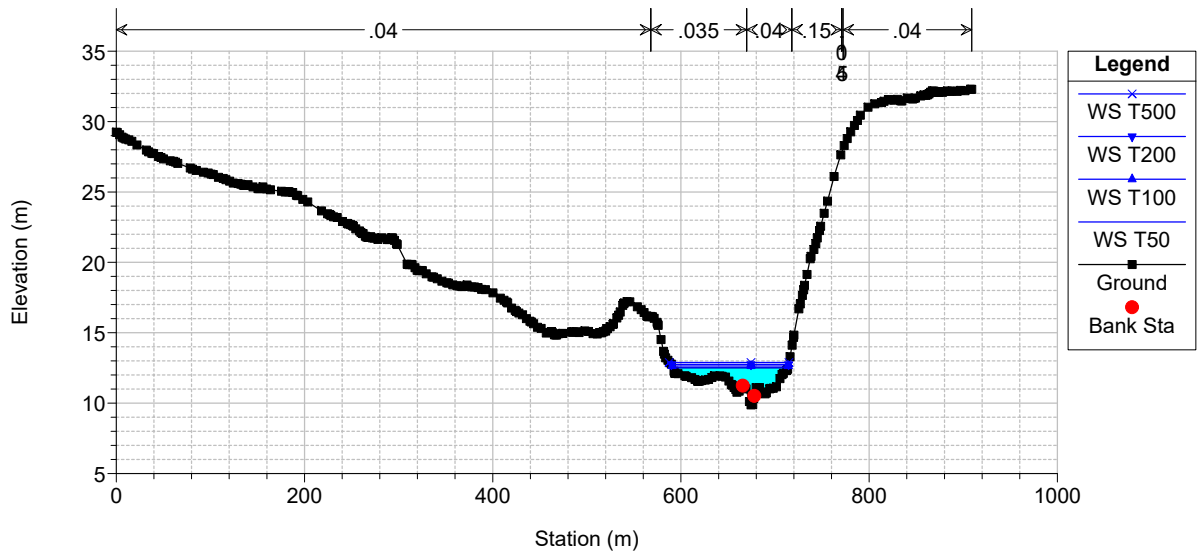
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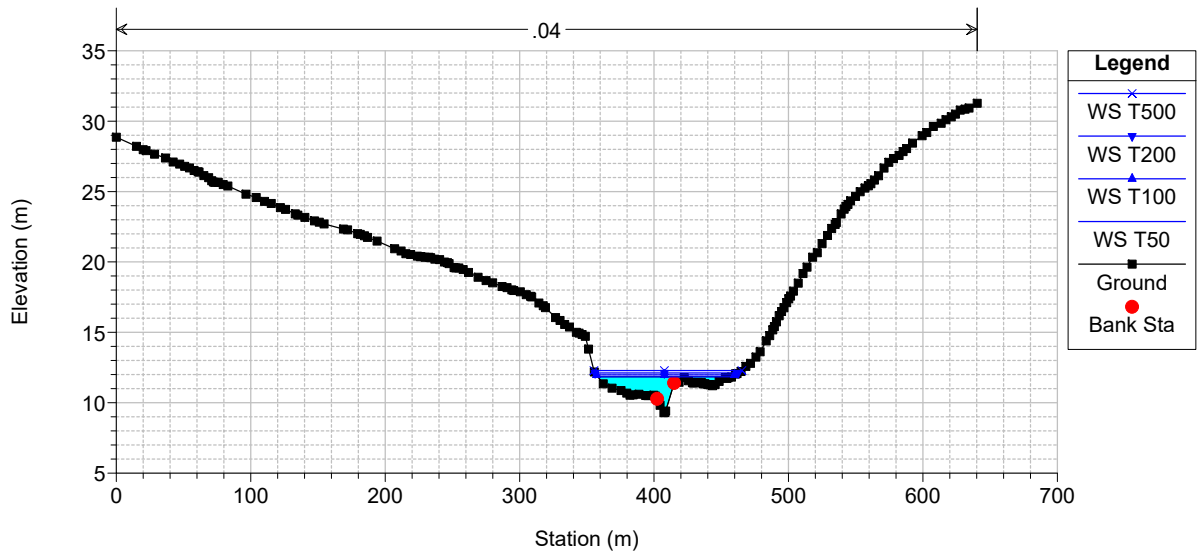
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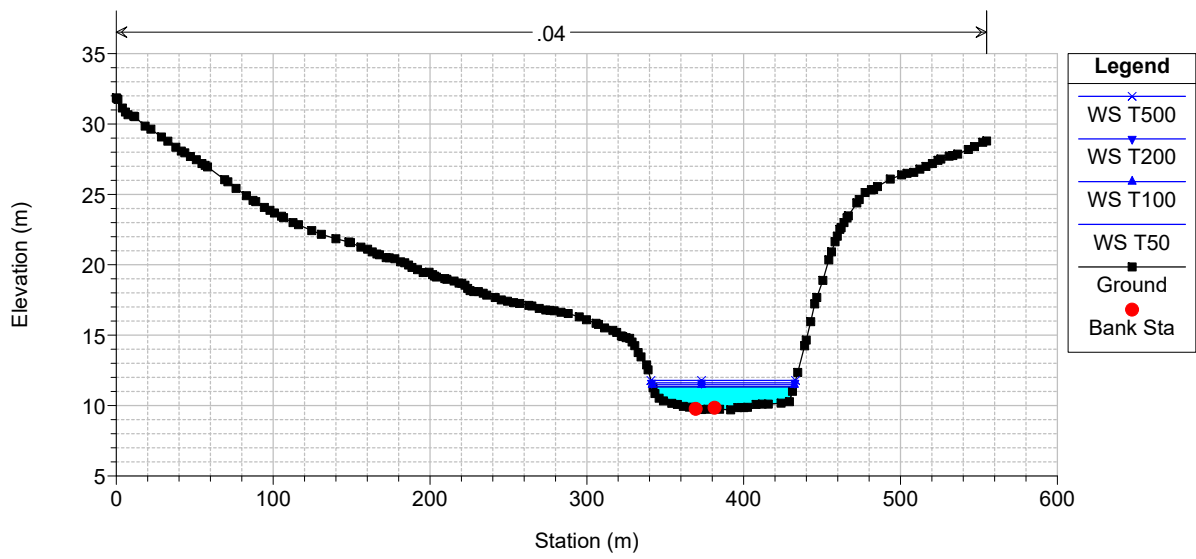
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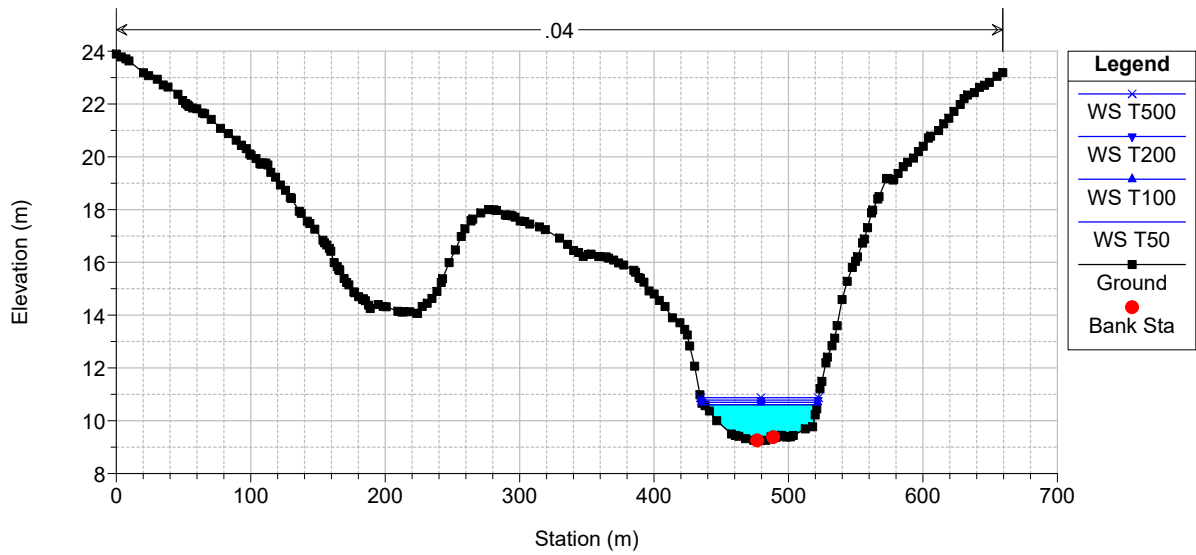
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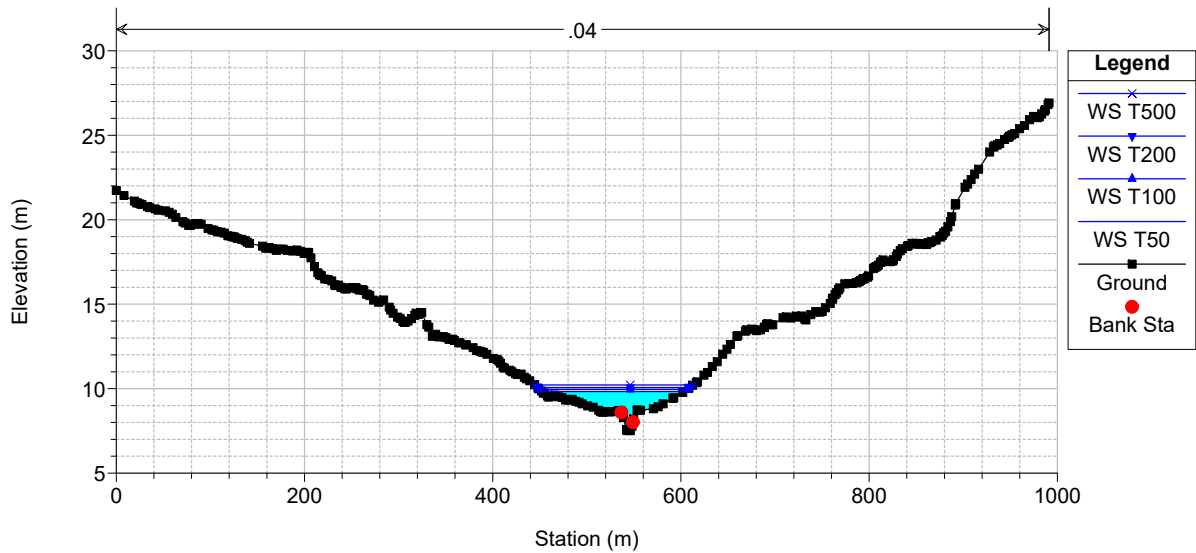
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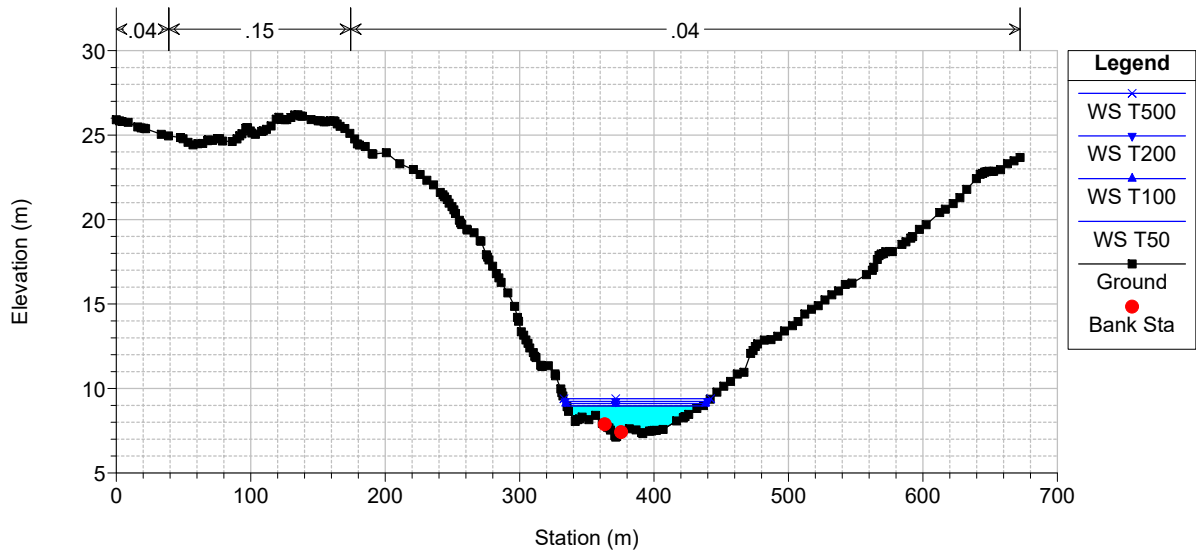
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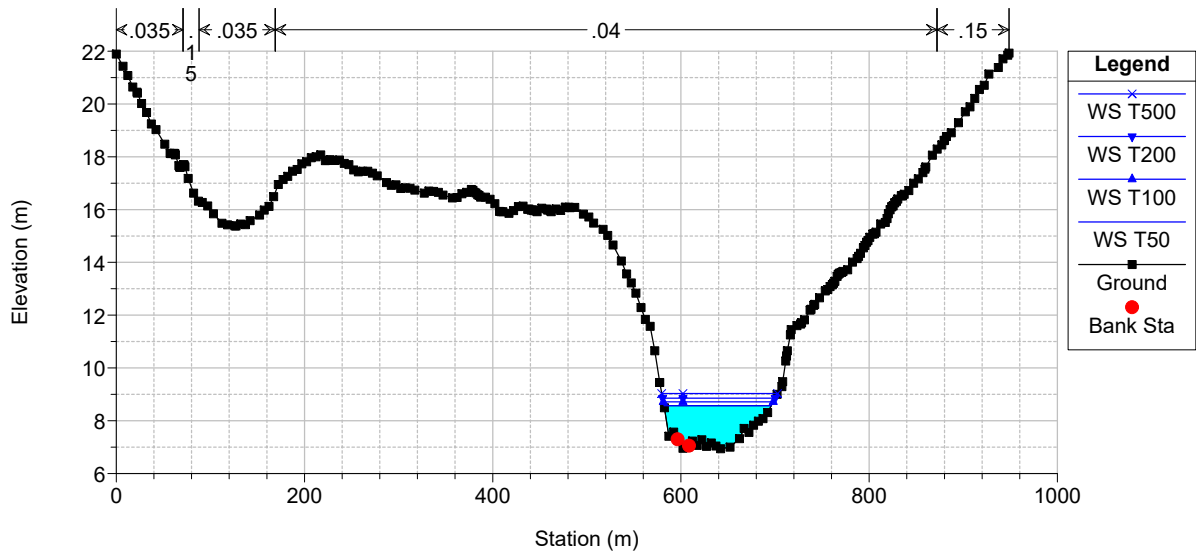
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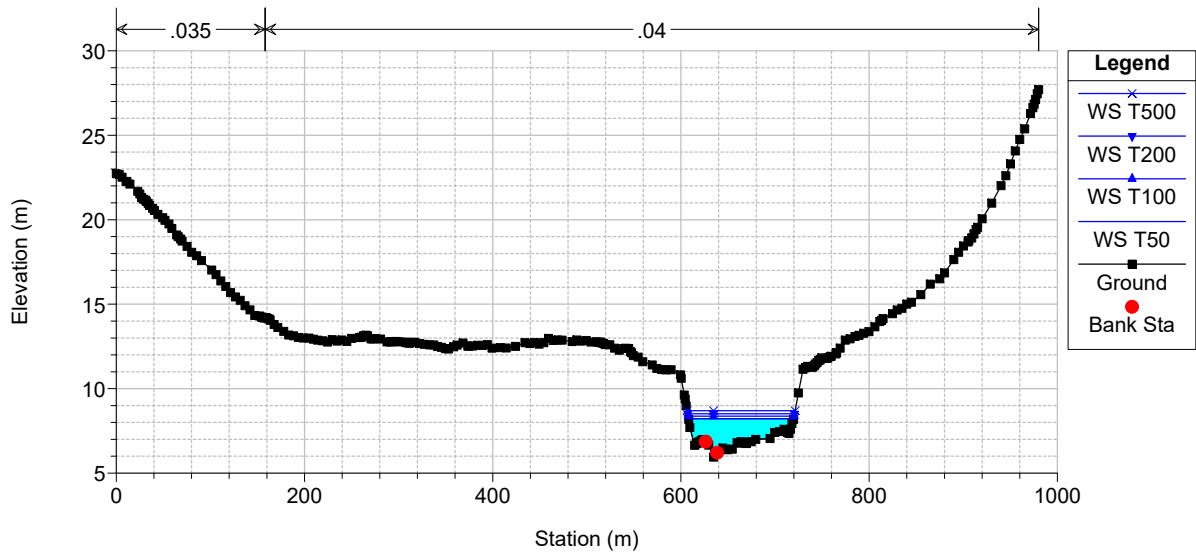
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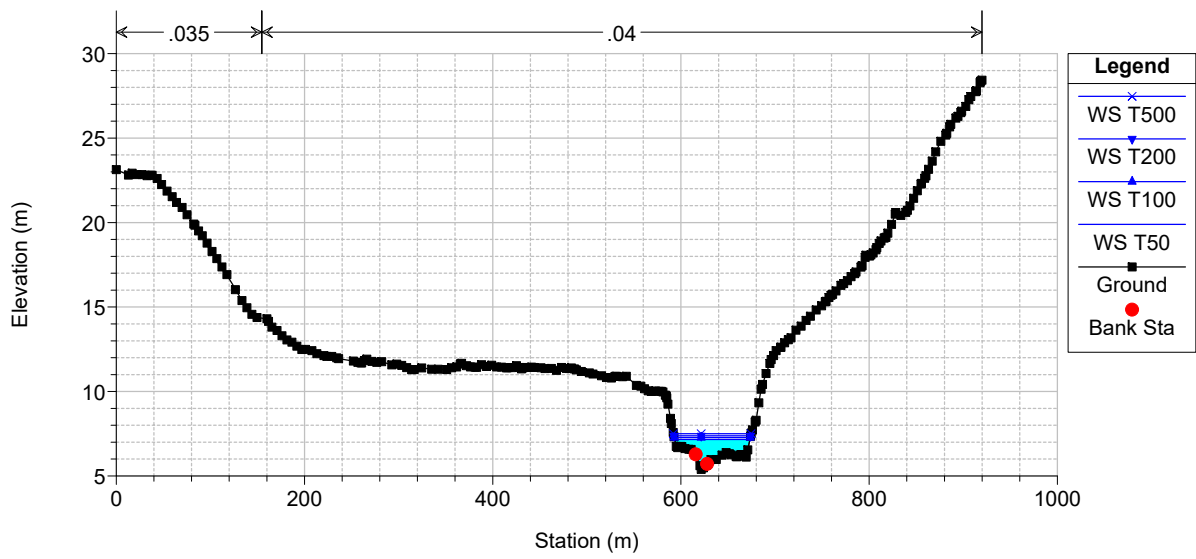
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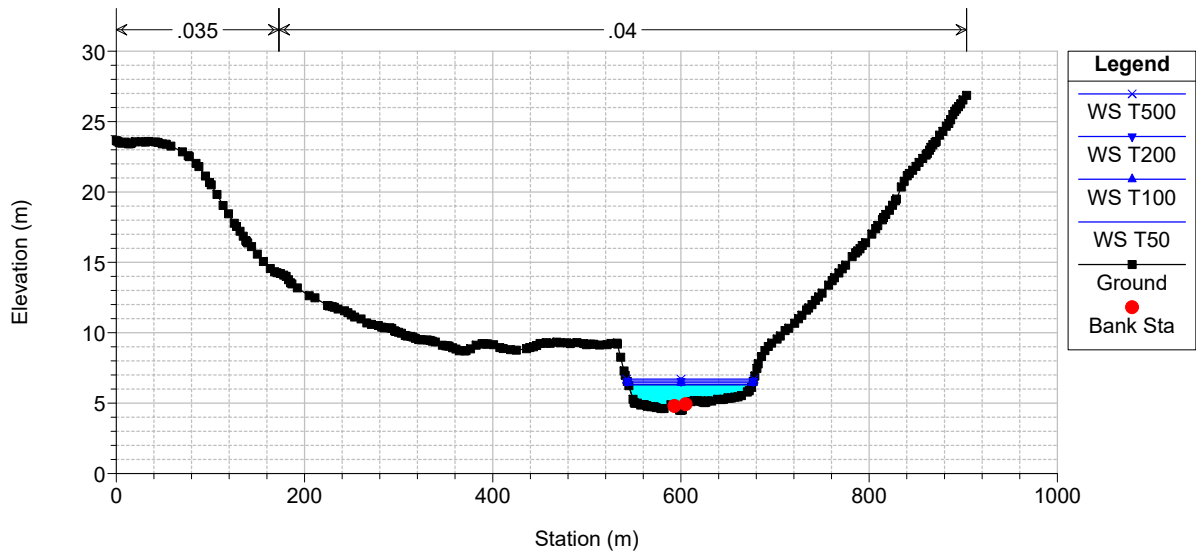
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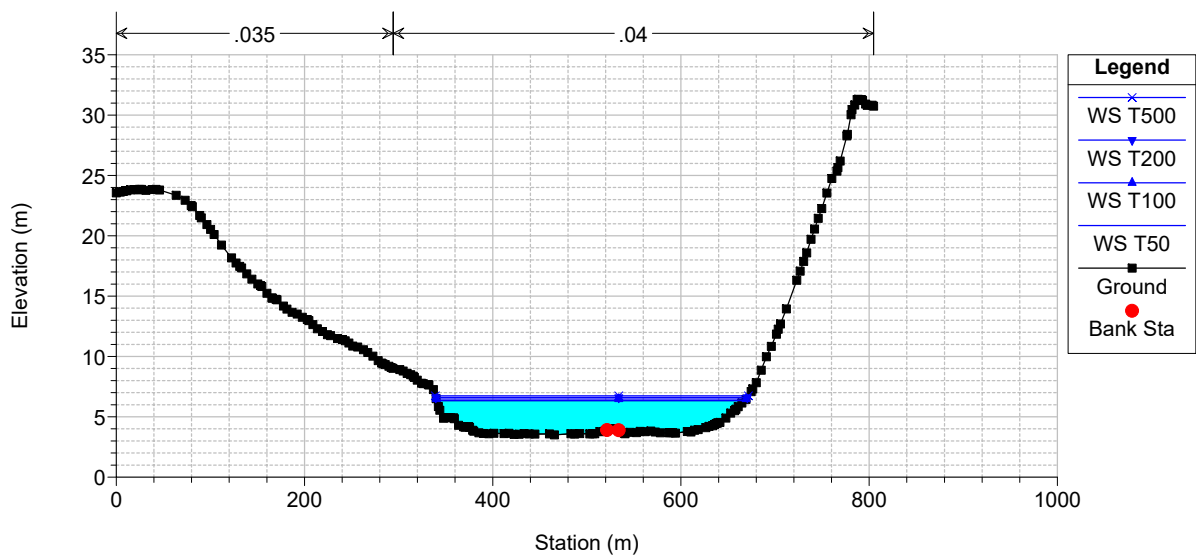
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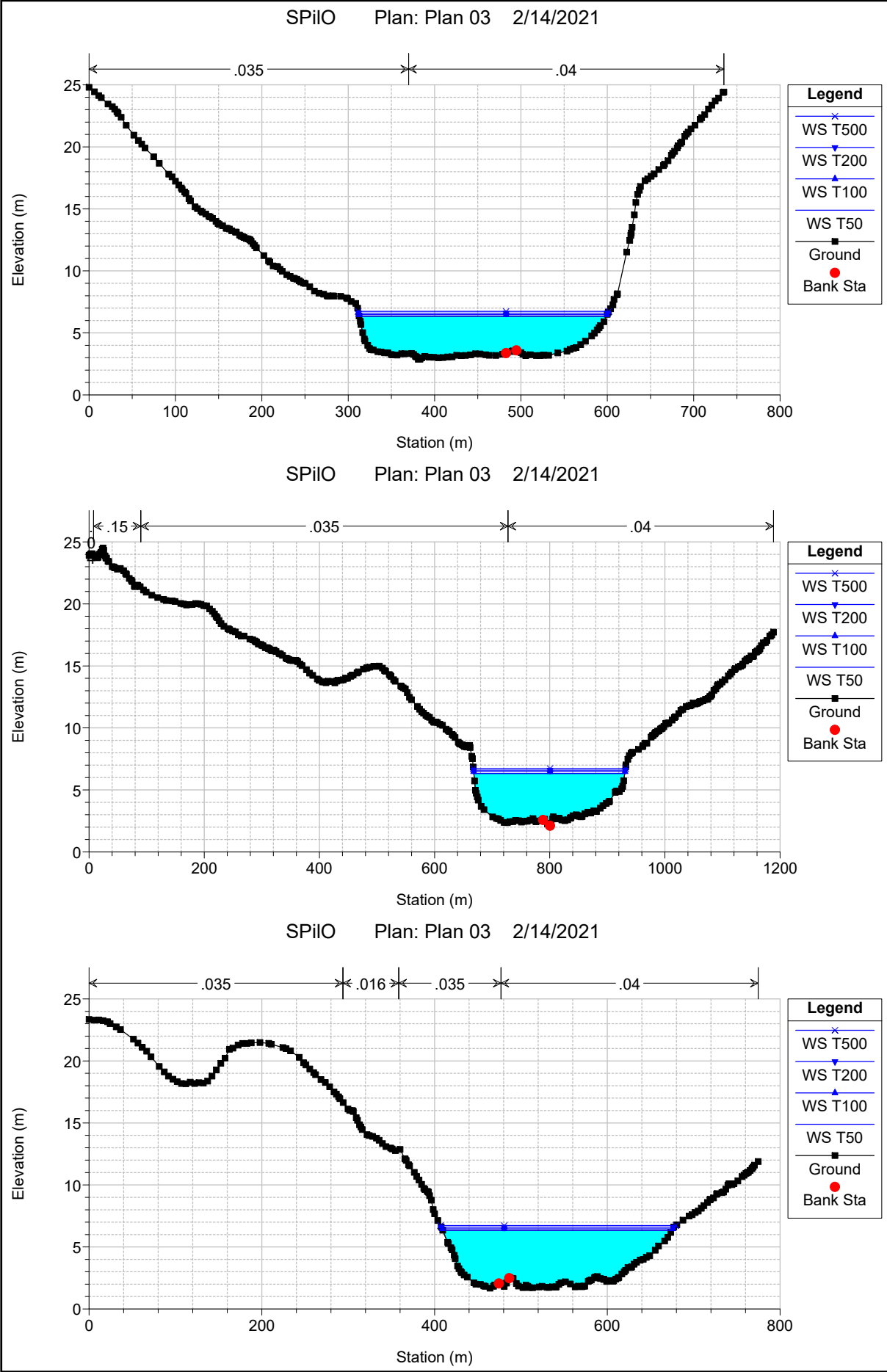


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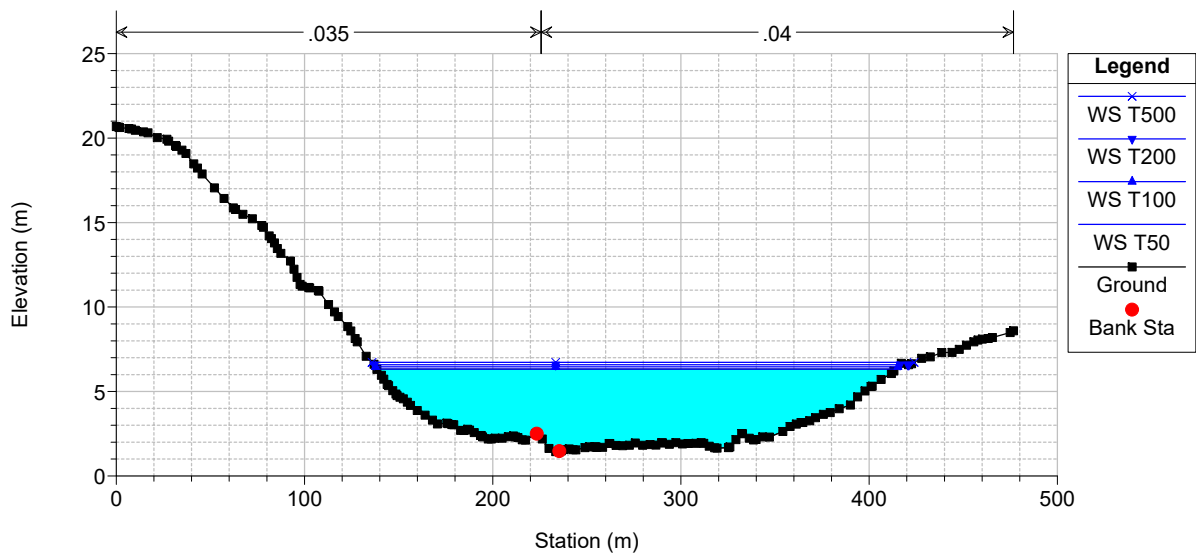


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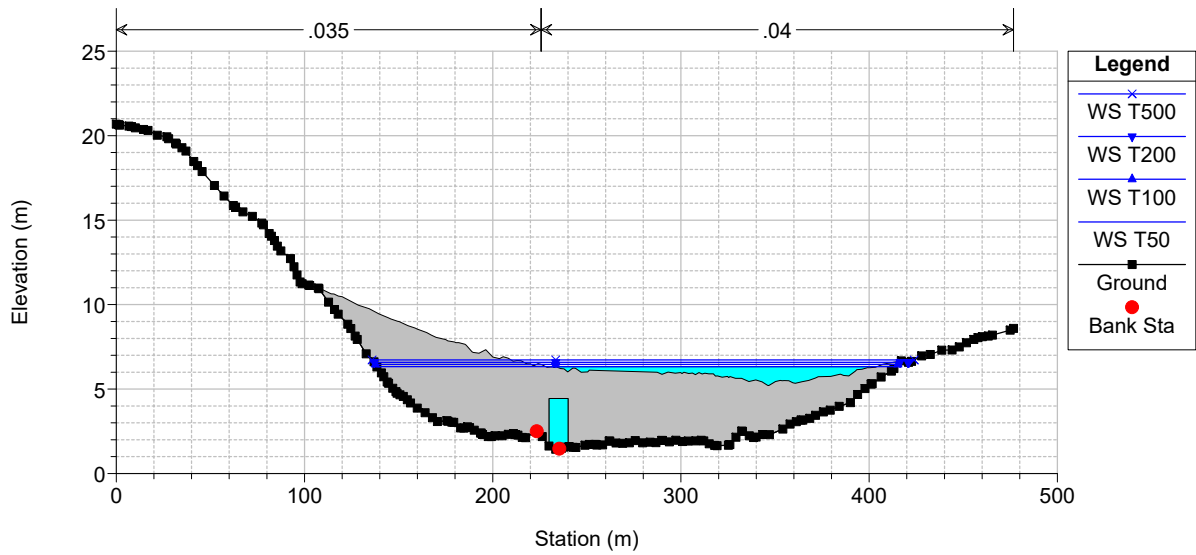




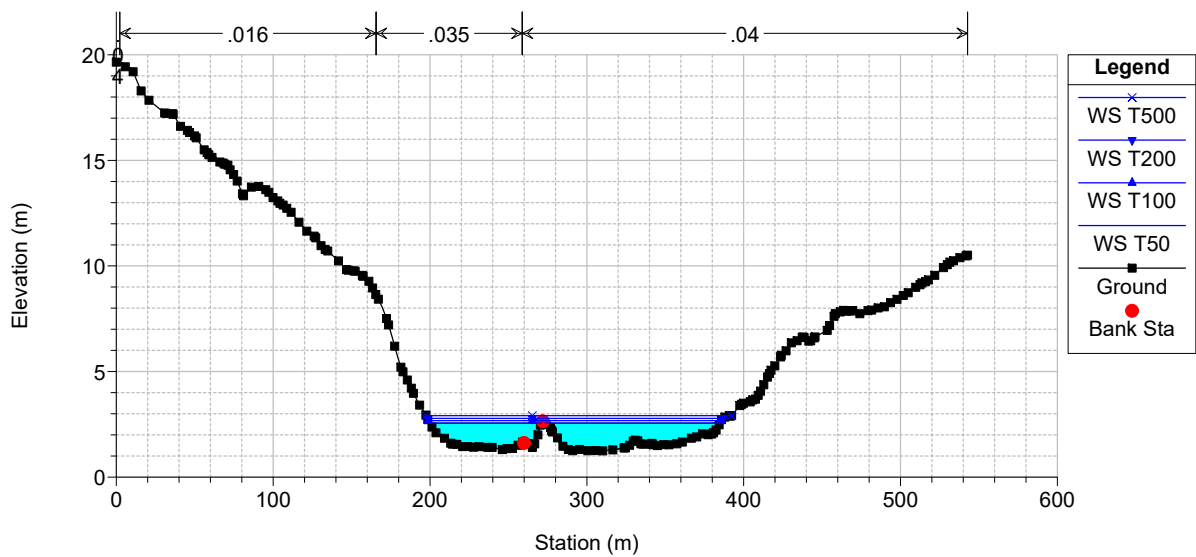
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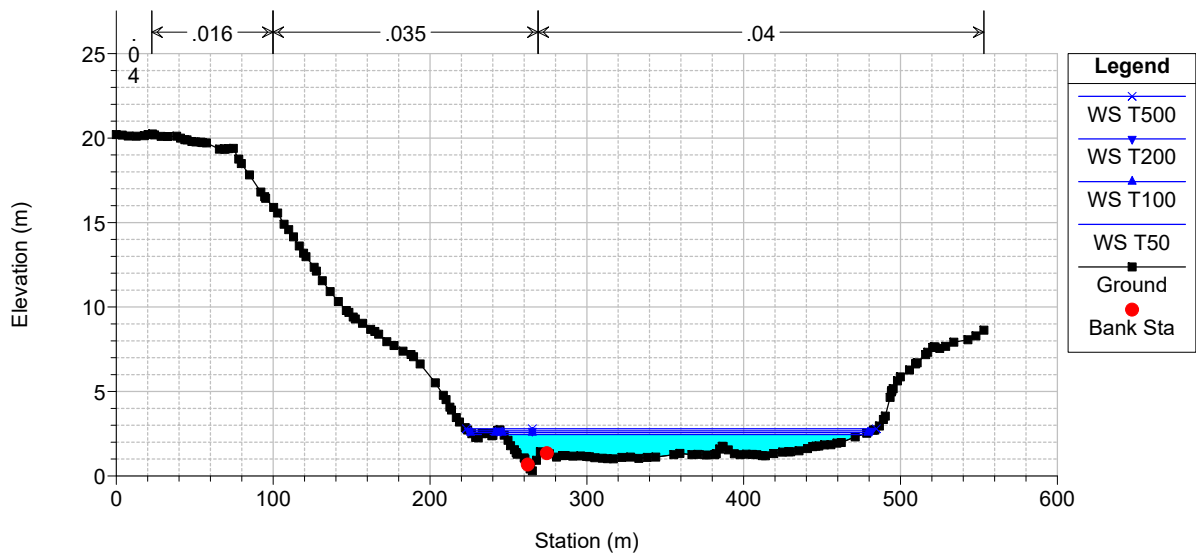
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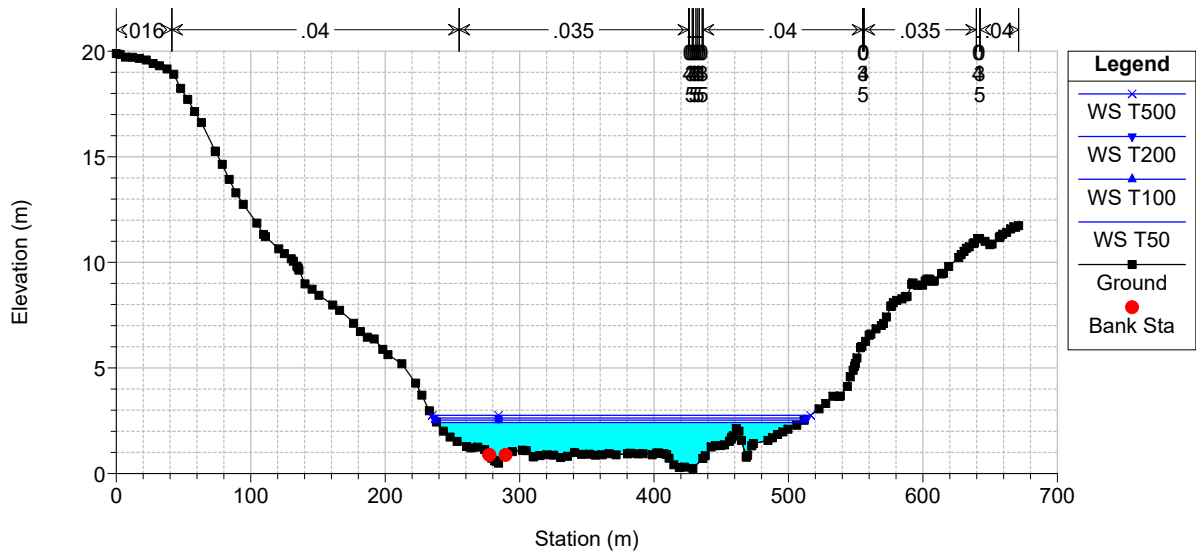
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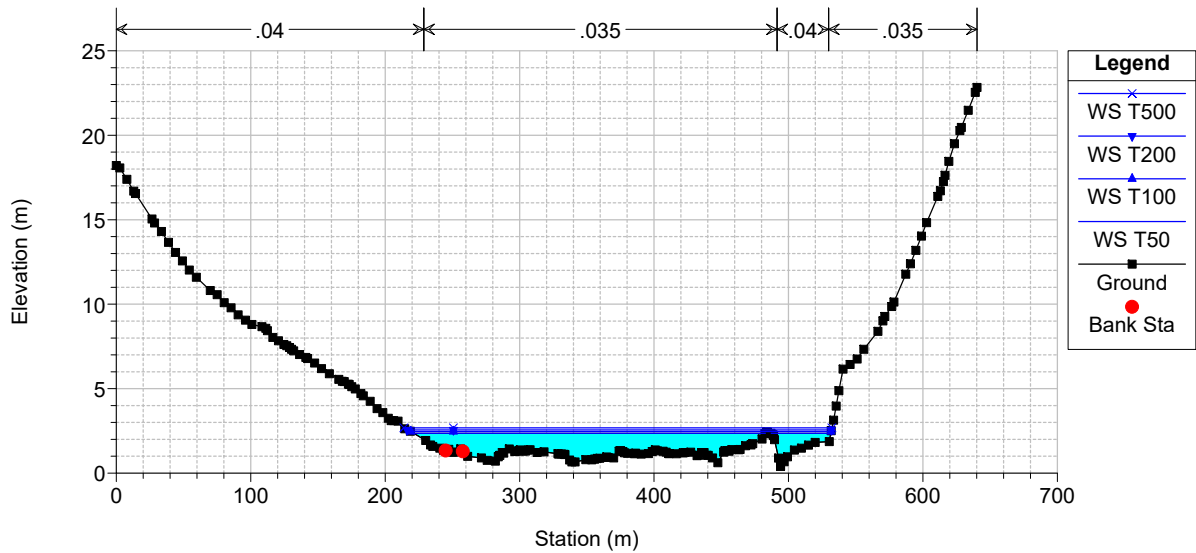
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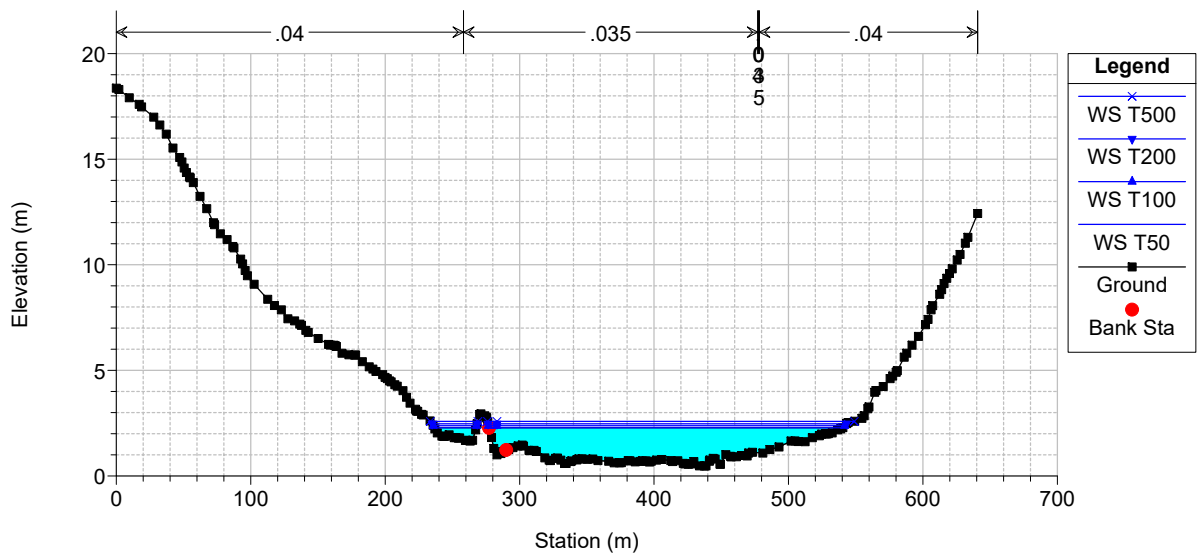
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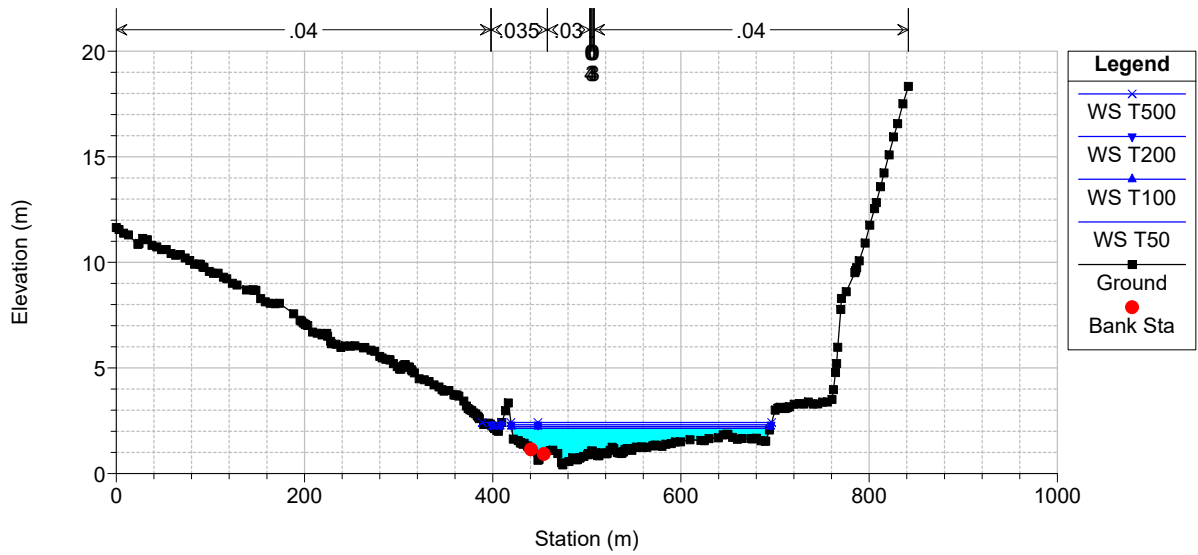
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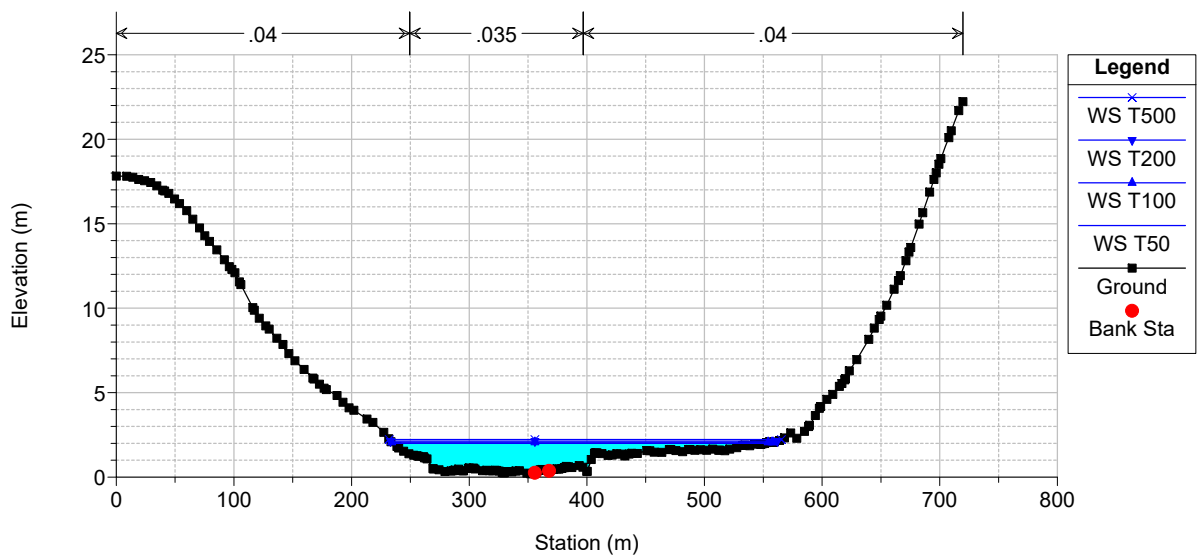
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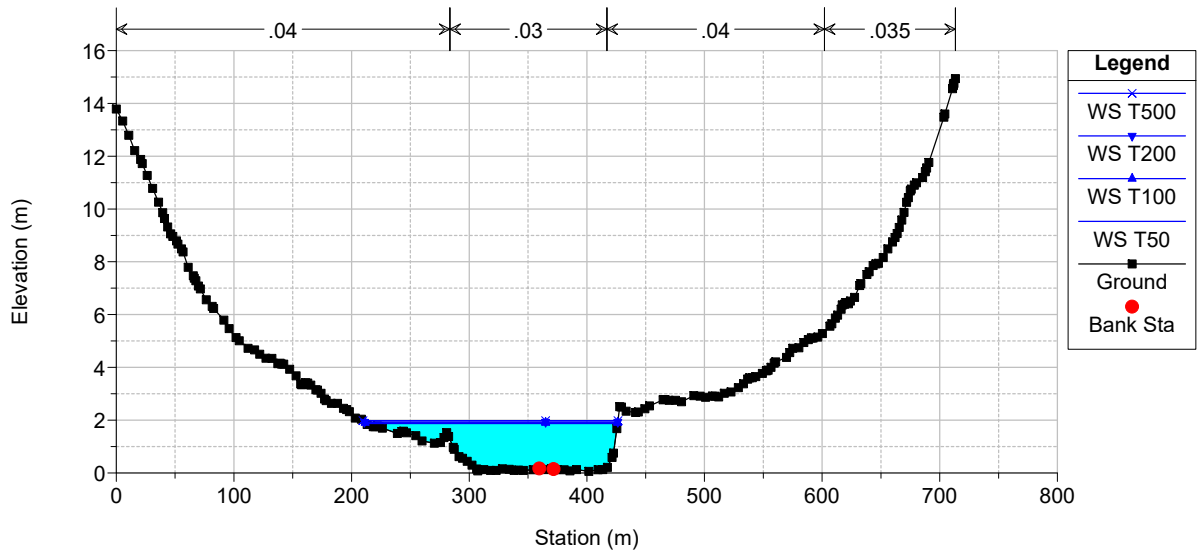
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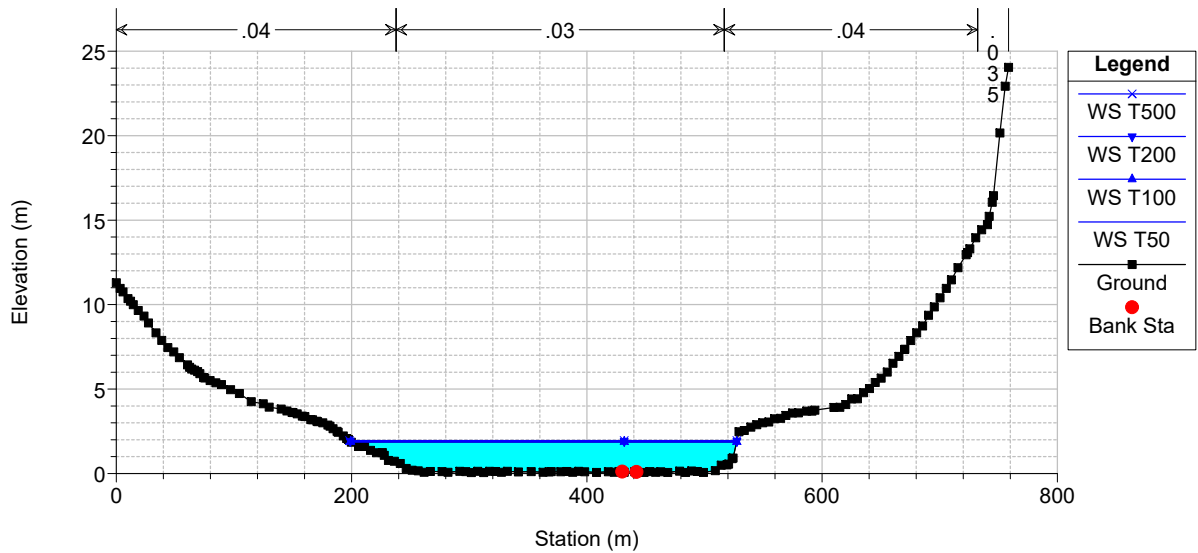
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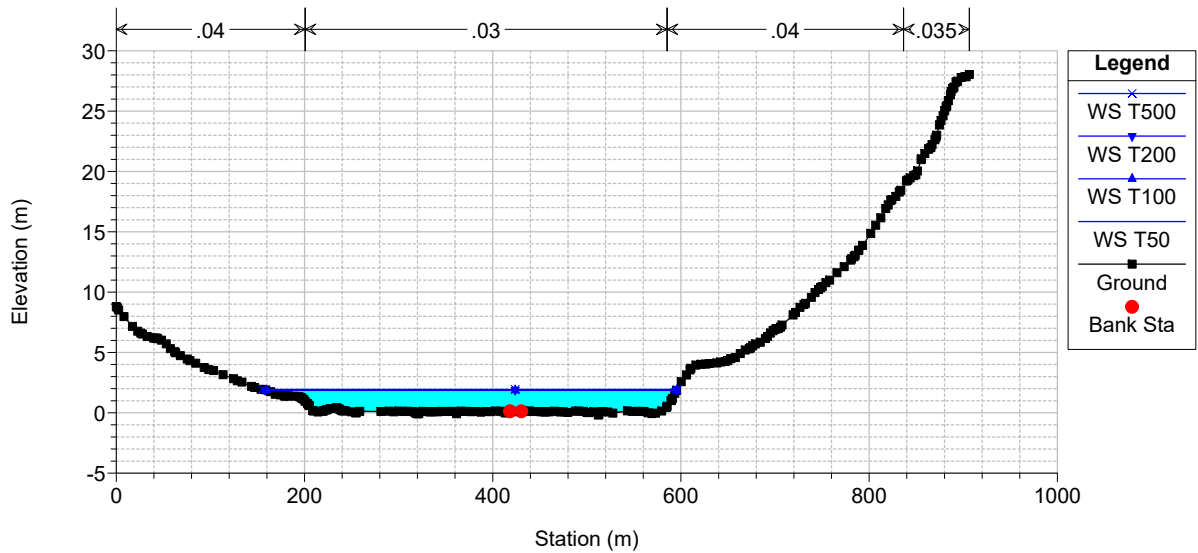
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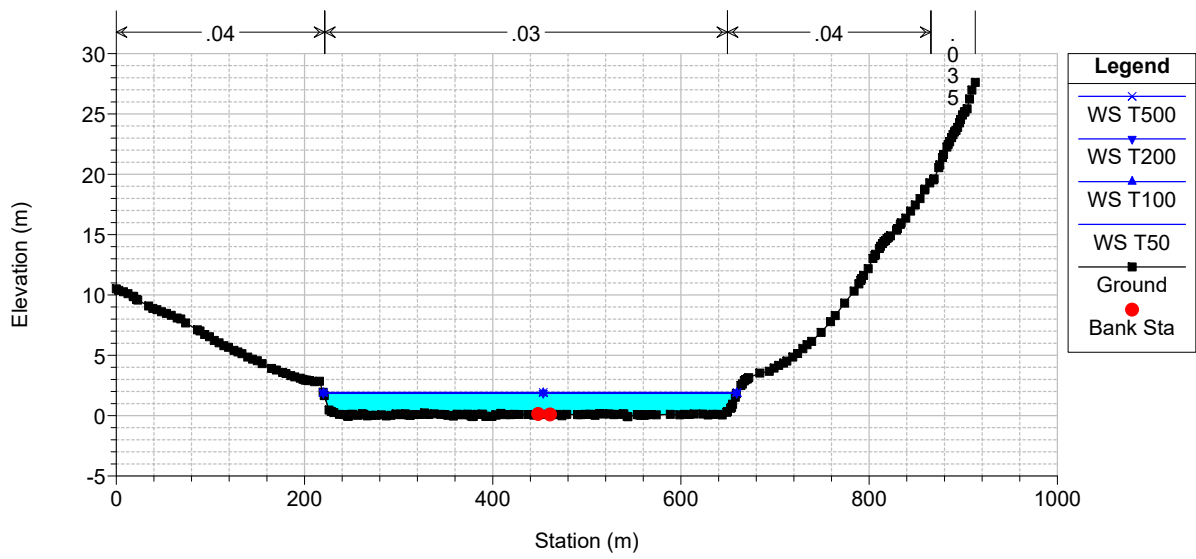
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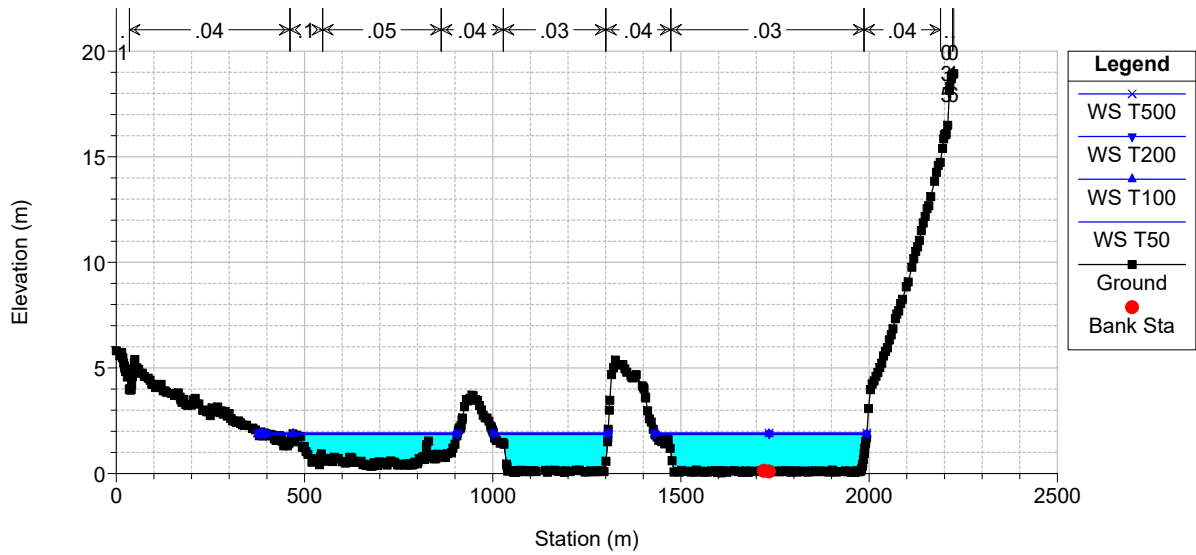
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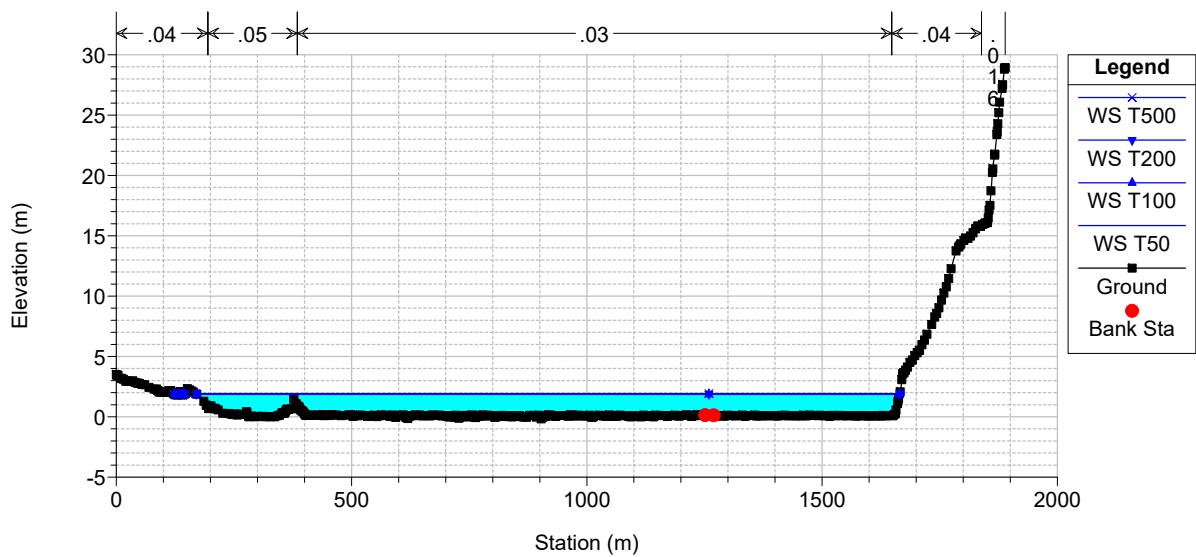
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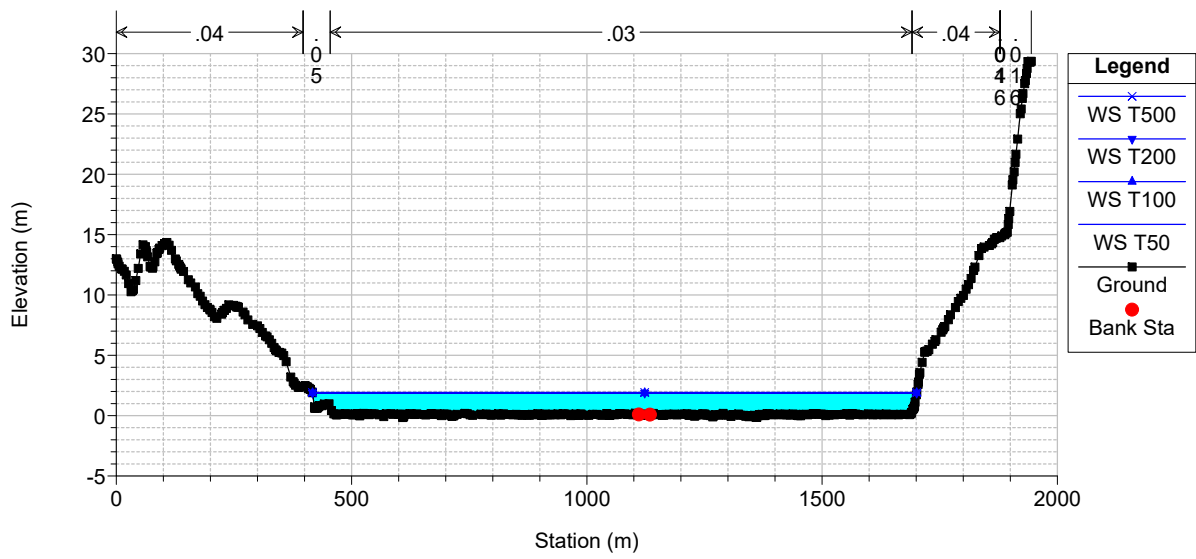
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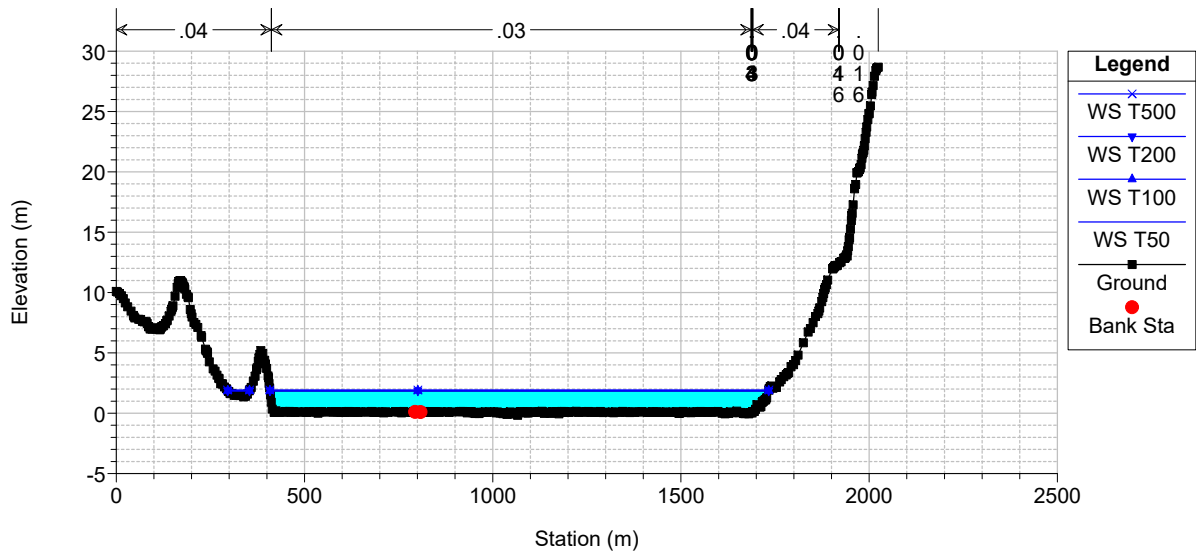
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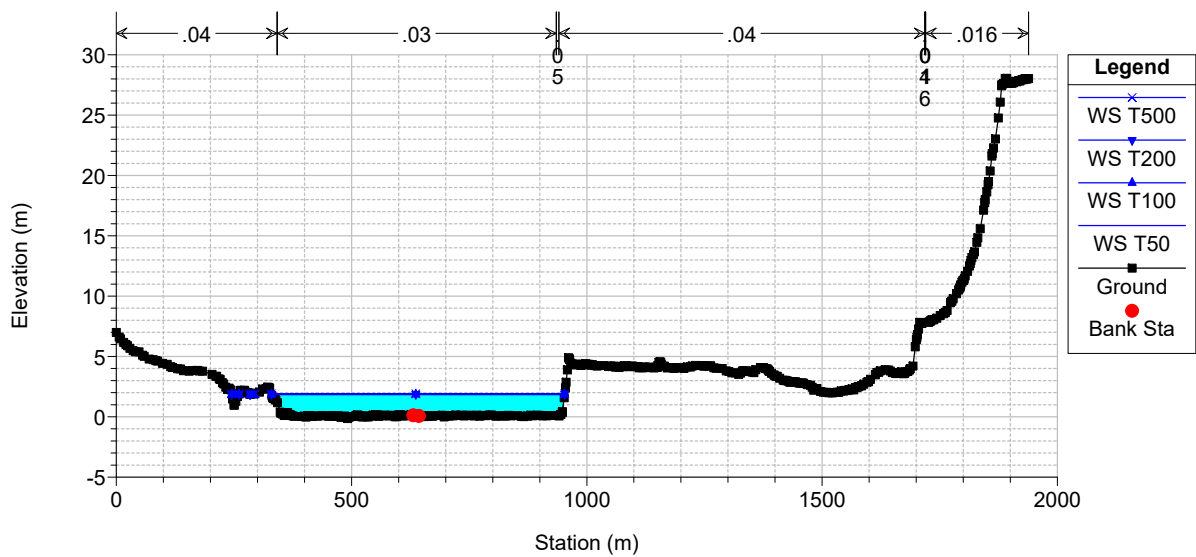
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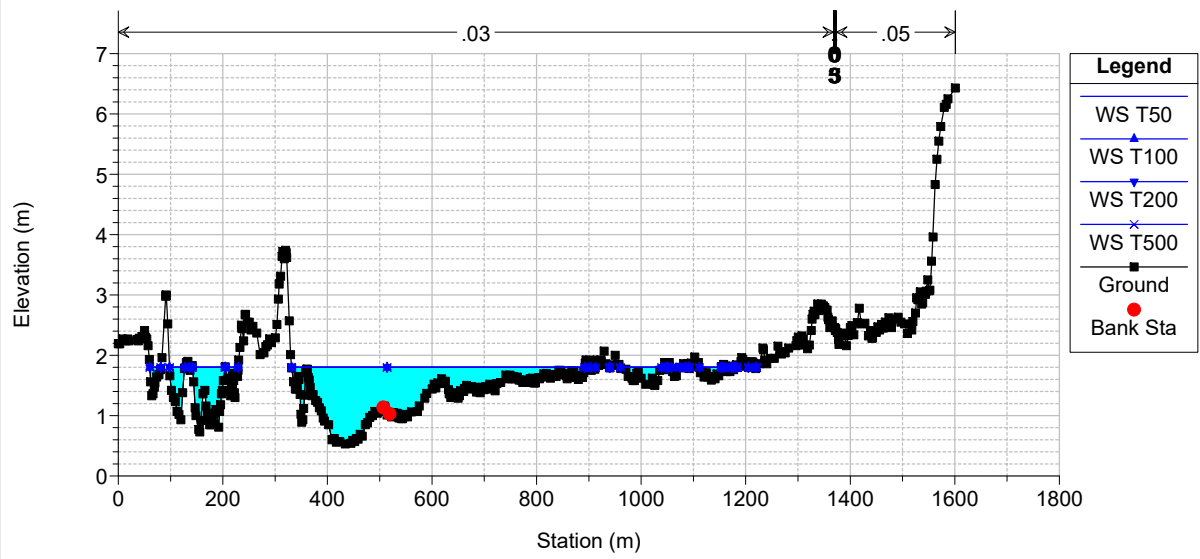


SPiO Plan: Plan 03 2/14/2021



SPiO Plan: Plan 03 2/14/2021





HEC-RAS Plan: Plan 03

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
San Nicola	Monte	8390	T50	147.14	28.30	29.79	29.59	29.92	0.005779	2.07	95.83	135.66	0.62
San Nicola	Monte	8390	T100	175.52	28.30	29.88	29.65	30.02	0.005759	2.17	107.88	139.15	0.63
San Nicola	Monte	8390	T200	204.20	28.30	29.96	29.72	30.12	0.005712	2.26	119.48	141.93	0.63
San Nicola	Monte	8390	T500	242.43	28.30	30.06	29.80	30.24	0.005695	2.37	133.88	145.21	0.64
San Nicola	Monte	8266	T50	147.14	27.90	29.07		29.20	0.005824	1.96	93.08	125.86	0.61
San Nicola	Monte	8266	T100	175.52	27.90	29.17		29.31	0.005753	2.07	105.16	129.23	0.62
San Nicola	Monte	8266	T200	204.20	27.90	29.26		29.42	0.005705	2.17	117.08	137.11	0.62
San Nicola	Monte	8266	T500	242.43	27.90	29.37		29.54	0.005591	2.27	133.16	152.97	0.63
San Nicola	Monte	8129	T50	147.14	27.38	28.30	28.03	28.43	0.005426	1.63	96.51	134.04	0.57
San Nicola	Monte	8129	T100	175.52	27.38	28.38	28.11	28.53	0.005637	1.77	107.78	138.75	0.59
San Nicola	Monte	8129	T200	204.20	27.38	28.45	28.18	28.62	0.005931	1.91	117.40	141.37	0.61
San Nicola	Monte	8129	T500	242.43	27.38	28.54	28.30	28.73	0.006235	2.07	130.05	147.70	0.64
San Nicola	Monte	7998	T50	147.14	26.09	27.29		27.48	0.010073	2.63	83.74	160.20	0.81
San Nicola	Monte	7998	T100	175.52	26.09	27.37		27.56	0.009879	2.74	96.95	168.17	0.81
San Nicola	Monte	7998	T200	204.20	26.09	27.44		27.64	0.009376	2.78	109.35	174.61	0.80
San Nicola	Monte	7998	T500	242.43	26.09	27.53		27.75	0.009094	2.86	124.93	179.41	0.80
San Nicola	Monte	7893	T50	147.14	25.63	26.87		26.93	0.002819	1.45	136.35	193.71	0.43
San Nicola	Monte	7893	T100	175.52	25.63	26.96		27.03	0.002777	1.51	153.82	197.05	0.44
San Nicola	Monte	7893	T200	204.20	25.63	27.04		27.12	0.002758	1.57	170.53	201.69	0.44
San Nicola	Monte	7893	T500	242.43	25.63	27.15		27.24	0.002660	1.63	192.66	204.63	0.44
San Nicola	Monte	7787	T50	147.14	25.31	26.35		26.49	0.006645	2.06	92.53	140.02	0.65
San Nicola	Monte	7787	T100	175.52	25.31	26.44		26.59	0.006719	2.18	104.25	151.45	0.66
San Nicola	Monte	7787	T200	204.20	25.31	26.51		26.68	0.006802	2.29	116.31	169.54	0.68
San Nicola	Monte	7787	T500	242.43	25.31	26.61		26.80	0.007011	2.46	133.69	177.37	0.70
San Nicola	Monte	7689	T50	147.14	24.82	25.45		25.64	0.011371	1.53	77.37	132.20	0.74
San Nicola	Monte	7689	T100	175.52	24.82	25.53		25.74	0.011319	1.72	89.15	141.53	0.76
San Nicola	Monte	7689	T200	204.20	24.82	25.61		25.82	0.011187	1.87	99.38	146.02	0.77
San Nicola	Monte	7689	T500	242.43	24.82	25.69		25.93	0.011125	2.03	111.72	150.24	0.79
San Nicola	Monte	7587	T50	147.14	23.30	24.56		24.70	0.007389	2.23	90.13	140.91	0.69
San Nicola	Monte	7587	T100	175.52	23.30	24.63		24.80	0.007452	2.35	101.13	144.51	0.70
San Nicola	Monte	7587	T200	204.20	23.30	24.71		24.89	0.007490	2.46	111.85	148.31	0.71
San Nicola	Monte	7587	T500	242.43	23.30	24.80		25.00	0.007482	2.58	125.60	152.62	0.72
San Nicola	Monte	7453	T50	147.14	22.09	23.64		23.77	0.006525	1.92	92.41	135.79	0.64
San Nicola	Monte	7453	T100	175.52	22.09	23.73		23.88	0.006359	2.01	104.24	137.90	0.64
San Nicola	Monte	7453	T200	204.20	22.09	23.81		23.97	0.006227	2.10	115.57	139.89	0.64
San Nicola	Monte	7453	T500	242.43	22.09	23.91		24.09	0.006124	2.20	129.68	142.34	0.64
San Nicola	Monte	7325	T50	147.14	21.64	23.09		23.17	0.003391	1.48	117.09	151.48	0.47
San Nicola	Monte	7325	T100	175.52	21.64	23.18		23.27	0.003488	1.59	130.38	155.43	0.48
San Nicola	Monte	7325	T200	204.20	21.64	23.26		23.36	0.003558	1.68	142.99	158.37	0.49
San Nicola	Monte	7325	T500	242.43	21.64	23.35		23.48	0.003652	1.79	158.61	161.45	0.50
San Nicola	Monte	7162	T50	147.14	21.40	22.36		22.48	0.005485	1.53	103.47	171.51	0.56
San Nicola	Monte	7162	T100	175.52	21.40	22.45		22.57	0.005393	1.64	118.57	176.61	0.57
San Nicola	Monte	7162	T200	204.20	21.40	22.52		22.65	0.005425	1.74	131.88	180.87	0.58
San Nicola	Monte	7162	T500	242.43	21.40	22.61		22.75	0.005451	1.85	148.06	184.87	0.59
San Nicola	Monte	7063	T50	147.14	20.89	21.90		21.98	0.004464	1.58	118.93	193.61	0.53
San Nicola	Monte	7063	T100	175.52	20.89	21.97		22.06	0.004730	1.71	133.34	201.80	0.55
San Nicola	Monte	7063	T200	204.20	20.89	22.03		22.14	0.004956	1.82	145.28	206.08	0.57
San Nicola	Monte	7063	T500	242.43	20.89	22.11		22.22	0.005195	1.95	161.07	225.99	0.59
San Nicola	Monte	6962	T50	147.14	20.52	21.30		21.40	0.007657	1.52	109.33	249.50	0.64
San Nicola	Monte	6962	T100	175.52	20.52	21.36		21.47	0.007406	1.61	125.35	252.82	0.64
San Nicola	Monte	6962	T200	204.20	20.52	21.42		21.54	0.007133	1.67	139.96	255.52	0.64
San Nicola	Monte	6962	T500	242.43	20.52	21.49		21.62	0.006872	1.75	158.37	259.56	0.63
San Nicola	Monte	6843	T50	147.14	19.81	20.71		20.78	0.003672	1.37	136.87	235.45	0.47
San Nicola	Monte	6843	T100	175.52	19.81	20.78		20.85	0.003733	1.45	152.66	239.78	0.48
San Nicola	Monte	6843	T200	204.20	19.81	20.84		20.92	0.003771	1.52	167.92	243.87	0.49
San Nicola	Monte	6843	T500	242.43	19.81	20.92		21.01	0.003804	1.61	187.12	248.09	0.50
San Nicola	Monte	6731	T50	147.14	19.47	20.06		20.18	0.008286	1.31	100.36	207.43	0.63
San Nicola	Monte	6731	T100	175.52	19.47	20.12		20.25	0.008021	1.42	114.61	214.12	0.64
San Nicola	Monte	6731	T200	204.20	19.47	20.18		20.32	0.007931	1.52	127.34	218.92	0.65
San Nicola	Monte	6731	T500	242.43	19.47	20.25		20.41	0.007896	1.64	142.95	223.79	0.66
San Nicola	Monte	6632	T50	147.14	18.42	19.58		19.64	0.003619	1.29	140.89	253.57	0.46
San Nicola	Monte	6632	T100	175.52	18.42	19.64		19.71	0.003784	1.39	156.56	261.03	0.48
San Nicola	Monte	6632	T200	204.20	18.42	19.70		19.77	0.003858	1.46	171.43	263.20	0.49
San Nicola	Monte	6632	T500	242.43	18.42	19.77		19.86	0.003871	1.54	191.11	266.05	0.50
San Nicola	Monte	6547	T50	147.14	18.18	19.13		19.22	0.006878	1.69	110.87	226.77	0.63
San Nicola	Monte	6547	T100	175.52	18.18	19.21		19.31	0.006041	1.70	129.49	229.78	0.60
San Nicola	Monte	6547	T200	204.20	18.18	19.29		19.39	0.005340	1.70	148.34	232.44	0.57
San Nicola	Monte	6547	T500	242.43	18.18	19.39		19.49	0.004795	1.73	171.02	235.08	0.55
San Nicola	Monte	6409	T50	147.14	16.32	18.47	18.14	18.57	0.003453	1.78	110.59	139.12	0.49
San Nicola	Monte	6409	T100	175.52	16.32	18.56	18.21	18.67	0.003575	1.89	123.61	145.26	0.50
San Nicola	Monte	6409	T200	204.20	16.32	18.65	18.29	18.78	0.003657	1.99	137.92	157.77	0.51
San Nicola	Monte	6409	T500	242.43	16.32	18.76	18.38	18.90	0.003770	2.12	156.56	187.46	0.52
San Nicola	Monte	6240	T50	147.14	15.83	17.30	17.30	17.52	0.014052	2.78	77.73	168.77	0.92
San Nicola	Monte	6240	T100	175.52	15.83	17.36	17.36	17.59	0.014121	2.90	87.38	171.04	0.93
San Nicola	Monte	6240	T200	204.20	15.83	17.40	17.40	17.67	0.014681	3.05	95.41	172.91	0.96
San Nicola	Monte	6240	T500	242.43	15.83	17.47	17.47	17.77	0.014825	3.20	107.47	180.98	0.97
San Nicola	Monte	6079	T50	147.14	14.97	16.69	16.13	16.73	0.001462	1.17	162.29	190.94	0.32
San Nicola	Monte	6079	T100	175.52	14.97	16.77	16.19	16.83	0.001593	1.27	179.36	202.18	0.34

HEC-RAS Plan: Plan 03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
San Nicola	Monte	6079	T200	204.20	14.97	16.85	16.26	16.91	0.001708	1.36	194.50	206.93	0.35
San Nicola	Monte	6079	T500	242.43	14.97	16.94	16.33	17.01	0.001841	1.47	213.96	214.41	0.37
San Nicola	Monte	5925	T50	147.14	14.04	16.64	15.63	16.65	0.000244	0.55	361.36	350.53	0.14
San Nicola	Monte	5925	T100	175.52	14.04	16.72	15.68	16.73	0.000273	0.61	390.25	353.72	0.14
San Nicola	Monte	5925	T200	204.20	14.04	16.79	15.74	16.80	0.000305	0.66	414.84	356.79	0.15
San Nicola	Monte	5925	T500	242.43	14.04	16.88	15.80	16.89	0.000344	0.72	446.39	361.68	0.16
San Nicola	Monte	5898	sx	Culvert									
San Nicola	Monte	5877	T50	147.14	13.62	15.66		15.75	0.002940	1.96	140.11	246.96	0.47
San Nicola	Monte	5877	T100	175.52	13.62	15.76		15.84	0.002627	1.92	164.77	250.69	0.45
San Nicola	Monte	5877	T200	204.20	13.62	15.86		15.94	0.002402	1.90	190.63	268.45	0.43
San Nicola	Monte	5877	T500	242.43	13.62	15.97		16.05	0.002226	1.90	220.47	275.96	0.42
San Nicola	Monte	5711	T50	147.14	13.17	15.42		15.45	0.001117	1.13	208.05	297.04	0.29
San Nicola	Monte	5711	T100	175.52	13.17	15.54		15.57	0.001021	1.14	245.68	319.61	0.28
San Nicola	Monte	5711	T200	204.20	13.17	15.66		15.69	0.000943	1.14	284.92	342.18	0.27
San Nicola	Monte	5711	T500	242.43	13.17	15.78		15.81	0.000894	1.16	327.85	355.06	0.26
San Nicola	Valle	5491	T50	204.85	12.72	14.81		15.04	0.006809	2.86	102.76	124.50	0.71
San Nicola	Valle	5491	T100	243.61	12.72	14.93		15.19	0.006747	3.00	119.20	137.60	0.72
San Nicola	Valle	5491	T200	282.71	12.72	15.05		15.32	0.006728	3.12	136.80	151.09	0.72
San Nicola	Valle	5491	T500	334.74	12.72	15.19		15.47	0.006256	3.16	158.25	156.87	0.70
San Nicola	Valle	5346	T50	204.85	11.69	14.19		14.36	0.003295	2.41	126.56	120.88	0.52
San Nicola	Valle	5346	T100	243.61	11.69	14.33		14.50	0.003290	2.50	142.78	123.90	0.52
San Nicola	Valle	5346	T200	282.71	11.69	14.45		14.64	0.003293	2.59	158.12	126.63	0.53
San Nicola	Valle	5346	T500	334.74	11.69	14.60		14.81	0.003288	2.69	177.50	129.78	0.53
San Nicola	Valle	5237	T50	204.85	11.27	13.51		13.82	0.007576	3.22	90.58	94.64	0.76
San Nicola	Valle	5237	T100	243.61	11.27	13.62		13.96	0.007604	3.36	101.56	98.15	0.77
San Nicola	Valle	5237	T200	282.71	11.27	13.73		14.10	0.007548	3.47	112.51	102.53	0.77
San Nicola	Valle	5237	T500	334.74	11.27	13.86		14.27	0.007532	3.61	126.45	107.09	0.78
San Nicola	Valle	5128	T50	204.85	10.50	12.98		13.19	0.004185	2.73	112.32	116.67	0.59
San Nicola	Valle	5128	T100	243.61	10.50	13.10		13.33	0.004169	2.83	127.15	120.06	0.59
San Nicola	Valle	5128	T200	282.71	10.50	13.22		13.46	0.004182	2.92	141.60	125.00	0.60
San Nicola	Valle	5128	T500	334.74	10.50	13.37		13.63	0.004150	3.03	160.58	131.11	0.60
San Nicola	Valle	4980	T50	204.85	9.88	12.52		12.66	0.002874	2.22	130.04	122.46	0.50
San Nicola	Valle	4980	T100	243.61	9.88	12.64		12.80	0.002926	2.33	144.76	123.52	0.51
San Nicola	Valle	4980	T200	282.71	9.88	12.75		12.93	0.002950	2.42	159.00	124.53	0.51
San Nicola	Valle	4980	T500	334.74	9.88	12.89		13.09	0.003011	2.54	176.81	127.32	0.52
San Nicola	Valle	4897	T50	204.85	9.30	11.84	11.83	12.24	0.009215	3.47	82.17	99.60	0.83
San Nicola	Valle	4897	T100	243.61	9.30	11.98	11.94	12.39	0.008554	3.52	96.51	102.66	0.81
San Nicola	Valle	4897	T200	282.71	9.30	12.12	12.04	12.52	0.008020	3.56	110.53	106.53	0.79
San Nicola	Valle	4897	T500	334.74	9.30	12.28		12.70	0.007367	3.59	128.69	110.07	0.77
San Nicola	Valle	4770	T50	204.85	9.72	11.33		11.49	0.003461	1.99	116.64	89.88	0.51
San Nicola	Valle	4770	T100	243.61	9.72	11.48		11.66	0.003466	2.11	129.87	90.62	0.51
San Nicola	Valle	4770	T200	282.71	9.72	11.61		11.82	0.003478	2.22	142.36	91.31	0.52
San Nicola	Valle	4770	T500	334.74	9.72	11.79		12.02	0.003477	2.36	158.23	92.18	0.53
San Nicola	Valle	4661	T50	204.85	9.25	10.61		10.91	0.008925	2.83	85.39	84.47	0.79
San Nicola	Valle	4661	T100	243.61	9.25	10.70	10.54	11.06	0.009632	3.08	93.39	86.28	0.83
San Nicola	Valle	4661	T200	282.71	9.25	10.78	10.66	11.19	0.010328	3.31	100.36	86.94	0.87
San Nicola	Valle	4661	T500	334.74	9.25	10.88	10.78	11.37	0.011236	3.60	108.75	87.72	0.91
San Nicola	Valle	4520	T50	204.85	7.51	9.83	9.59	10.00	0.004427	2.62	127.77	151.26	0.59
San Nicola	Valle	4520	T100	243.61	7.51	9.96		10.13	0.004233	2.67	147.03	157.20	0.58
San Nicola	Valle	4520	T200	282.71	7.51	10.07		10.26	0.004057	2.70	165.74	162.04	0.58
San Nicola	Valle	4520	T500	334.74	7.51	10.22		10.41	0.003858	2.75	189.88	168.00	0.57
San Nicola	Valle	4352	T50	204.85	7.12	8.97		9.18	0.005463	2.45	105.14	101.25	0.63
San Nicola	Valle	4352	T100	243.61	7.12	9.11		9.33	0.005360	2.56	118.94	103.95	0.63
San Nicola	Valle	4352	T200	282.71	7.12	9.23		9.48	0.005252	2.66	132.26	106.23	0.64
San Nicola	Valle	4352	T500	334.74	7.12	9.39		9.66	0.005116	2.78	149.38	109.07	0.64
San Nicola	Valle	4236	T50	204.85	6.96	8.57		8.69	0.003002	1.81	133.57	114.02	0.47
San Nicola	Valle	4236	T100	243.61	6.96	8.72		8.85	0.002950	1.91	150.53	116.91	0.47
San Nicola	Valle	4236	T200	282.71	6.96	8.86		9.01	0.002903	2.00	166.94	119.64	0.47
San Nicola	Valle	4236	T500	334.74	6.96	9.03		9.20	0.002845	2.10	188.06	123.16	0.48
San Nicola	Valle	4093	T50	204.85	5.95	8.22		8.33	0.002151	1.76	146.23	111.69	0.41
San Nicola	Valle	4093	T100	243.61	5.95	8.37		8.49	0.002150	1.85	163.03	112.67	0.41
San Nicola	Valle	4093	T200	282.71	5.95	8.51		8.65	0.002149	1.93	178.99	113.60	0.42
San Nicola	Valle	4093	T500	334.74	5.95	8.69		8.84	0.002144	2.03	199.19	114.76	0.42
San Nicola	Valle	3930	T50	204.85	5.39	7.16	7.16	7.60	0.012189	3.57	73.98	79.89	0.94
San Nicola	Valle	3930	T100	243.61	5.39	7.27	7.27	7.76	0.012236	3.75	82.81	80.73	0.95
San Nicola	Valle	3930	T200	282.71	5.39	7.38	7.38	7.91	0.012220	3.91	91.31	81.52	0.96
San Nicola	Valle	3930	T500	334.74	5.39	7.50	7.50	8.10	0.012258	4.11	101.84	82.51	0.97
San Nicola	Valle	3673	T50	204.85	4.48	6.31	5.73	6.40	0.001989	1.55	158.77	131.53	0.39
San Nicola	Valle	3673	T100	243.61	4.48	6.44	5.82	6.55	0.002023	1.65	176.45	132.85	0.39
San Nicola	Valle	3673	T200	282.71	4.48	6.57	5.90	6.68	0.002049	1.73	193.26	134.09	0.40
San Nicola	Valle	3673	T500	334.74	4.48	6.70	6.00	6.83	0.002176	1.87	211.15	135.38	0.42
San Nicola	Valle	3379	T50	204.85	3.88	6.34		6.34	0.000035	0.26	775.86	327.08	0.05
San Nicola	Valle	3379	T100	243.61	3.88	6.47		6.48	0.000042	0.30	820.60	329.41	0.06
San Nicola	Valle	3379	T200	282.71	3.88	6.60		6.61	0.000048	0.33	863.08	331.02	0.06
San Nicola	Valle	3379	T500	334.74	3.88	6.74		6.75	0.000057	0.37	908.84	332.75	0.07
San Nicola	Valle	3254	T50	204.85	3.38	6.33		6.34	0.000025	0.25	803.79	286.10	0.05
San Nicola	Valle	3254	T100	243.61	3.38	6.47		6.47	0.000030	0.28	842.65	287.38	0.05

HEC-RAS Plan: Plan 03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
San Nicola	Valle	3254	T200	282.71	3.38	6.60		6.60	0.000035	0.32	879.49	288.62	0.06
San Nicola	Valle	3254	T500	334.74	3.38	6.73		6.74	0.000043	0.36	919.06	290.15	0.06
San Nicola	Valle	3079	T50	204.85	2.11	6.33		6.33	0.000018	0.27	845.00	262.05	0.04
San Nicola	Valle	3079	T100	243.61	2.11	6.47		6.47	0.000023	0.30	880.35	262.77	0.05
San Nicola	Valle	3079	T200	282.71	2.11	6.59		6.60	0.000027	0.34	913.79	263.45	0.05
San Nicola	Valle	3079	T500	334.74	2.11	6.73		6.73	0.000034	0.39	949.55	264.18	0.06
San Nicola	Valle	2925	T50	204.85	1.82	6.33		6.33	0.000013	0.24	943.10	265.27	0.04
San Nicola	Valle	2925	T100	243.61	1.82	6.46		6.47	0.000016	0.28	978.83	267.20	0.04
San Nicola	Valle	2925	T200	282.71	1.82	6.59		6.59	0.000020	0.31	1012.78	269.03	0.05
San Nicola	Valle	2925	T500	334.74	1.82	6.72		6.73	0.000025	0.36	1049.28	272.52	0.05
San Nicola	Valle	2822	T50	204.85	1.44	6.33	2.53	6.33	0.000012	0.25	966.60	275.79	0.04
San Nicola	Valle	2822	T100	243.61	1.44	6.46	2.60	6.46	0.000016	0.28	1003.66	277.64	0.04
San Nicola	Valle	2822	T200	282.71	1.44	6.59	2.66	6.59	0.000019	0.31	1038.84	279.93	0.05
San Nicola	Valle	2822	T500	334.74	1.44	6.72	2.75	6.73	0.000025	0.36	1077.11	287.95	0.05
San Nicola	Valle	2802	valle	Culvert									
San Nicola	Valle	2775	T50	204.85	1.40	2.56		2.64	0.002070	0.99	176.12	183.06	0.35
San Nicola	Valle	2775	T100	243.61	1.40	2.68		2.76	0.002067	1.03	197.03	186.71	0.35
San Nicola	Valle	2775	T200	282.71	1.40	2.78		2.87	0.002064	1.10	216.52	188.71	0.36
San Nicola	Valle	2775	T500	334.74	1.40	2.91		3.01	0.002094	1.21	241.50	194.55	0.37
San Nicola	Valle	2702	T50	257.97	0.30	2.45		2.51	0.001436	1.40	251.18	236.71	0.37
San Nicola	Valle	2702	T100	305.33	0.30	2.57		2.63	0.001487	1.49	278.27	249.08	0.37
San Nicola	Valle	2702	T200	352.99	0.30	2.67		2.74	0.001524	1.57	304.31	254.77	0.38
San Nicola	Valle	2702	T500	416.27	0.30	2.80		2.88	0.001595	1.67	337.34	261.42	0.39
San Nicola	Valle	2627	T50	257.97	0.49	2.42		2.45	0.000440	0.87	351.12	270.88	0.21
San Nicola	Valle	2627	T100	305.33	0.49	2.53		2.56	0.000482	0.95	380.89	274.53	0.22
San Nicola	Valle	2627	T200	352.99	0.49	2.63		2.67	0.000520	1.02	408.88	277.61	0.23
San Nicola	Valle	2627	T500	416.27	0.49	2.76		2.80	0.000564	1.11	444.01	281.43	0.24
San Nicola	Valle	2512	T50	257.97	1.24	2.36		2.39	0.000626	0.73	335.54	305.92	0.23
San Nicola	Valle	2512	T100	305.33	1.24	2.46		2.50	0.000672	0.80	367.85	312.59	0.24
San Nicola	Valle	2512	T200	352.99	1.24	2.56		2.60	0.000693	0.86	398.66	315.55	0.25
San Nicola	Valle	2512	T500	416.27	1.24	2.68		2.73	0.000714	0.93	437.46	318.34	0.26
San Nicola	Valle	2378	T50	257.97	1.00	2.28		2.31	0.000520	0.63	338.07	294.05	0.21
San Nicola	Valle	2378	T100	305.33	1.00	2.38		2.41	0.000573	0.70	366.68	297.17	0.22
San Nicola	Valle	2378	T200	352.99	1.00	2.47		2.51	0.000616	0.77	394.41	300.20	0.23
San Nicola	Valle	2378	T500	416.27	1.00	2.59		2.64	0.000667	0.86	429.64	308.17	0.24
San Nicola	Valle	2259	T50	257.97	0.63	2.14		2.21	0.001631	1.36	236.67	280.09	0.38
San Nicola	Valle	2259	T100	305.33	0.63	2.23		2.30	0.001720	1.46	260.37	283.30	0.40
San Nicola	Valle	2259	T200	352.99	0.63	2.31		2.39	0.001772	1.54	284.06	286.47	0.41
San Nicola	Valle	2259	T500	416.27	0.63	2.42		2.51	0.001814	1.64	314.95	297.71	0.42
San Nicola	Valle	2112	T50	257.97	0.25	2.00		2.04	0.000759	1.09	298.12	316.18	0.27
San Nicola	Valle	2112	T100	305.33	0.25	2.06		2.12	0.000890	1.21	318.70	320.95	0.30
San Nicola	Valle	2112	T200	352.99	0.25	2.13		2.19	0.000998	1.31	341.01	329.01	0.32
San Nicola	Valle	2112	T500	416.27	0.25	2.23		2.30	0.001097	1.42	371.82	333.29	0.33
San Nicola	Valle	1928	T50	257.97	0.13	1.88		1.93	0.000528	1.10	263.26	213.78	0.27
San Nicola	Valle	1928	T100	305.33	0.13	1.90		1.97	0.000696	1.28	269.27	214.56	0.31
San Nicola	Valle	1928	T200	352.99	0.13	1.94		2.02	0.000870	1.45	276.00	215.42	0.35
San Nicola	Valle	1928	T500	416.27	0.13	1.98		2.09	0.001098	1.65	285.90	216.68	0.39
San Nicola	Valle	1745	T50	257.97	0.08	1.86		1.88	0.000116	0.53	516.88	327.69	0.13
San Nicola	Valle	1745	T100	305.33	0.08	1.89		1.90	0.000155	0.61	524.64	328.12	0.15
San Nicola	Valle	1745	T200	352.99	0.08	1.91		1.94	0.000196	0.70	533.45	328.61	0.16
San Nicola	Valle	1745	T500	416.27	0.08	1.95		1.98	0.000253	0.80	546.57	329.34	0.19
San Nicola	Valle	1582	T50	257.97	0.09	1.85		1.86	0.000062	0.38	693.73	435.07	0.09
San Nicola	Valle	1582	T100	305.33	0.09	1.87		1.88	0.000084	0.45	702.63	435.96	0.11
San Nicola	Valle	1582	T200	352.99	0.09	1.90		1.91	0.000107	0.51	712.84	437.32	0.12
San Nicola	Valle	1582	T500	416.27	0.09	1.93		1.95	0.000139	0.59	728.29	440.50	0.14
San Nicola	Valle	1487	T50	257.97	0.09	1.85		1.85	0.000049	0.34	760.87	438.93	0.08
San Nicola	Valle	1487	T100	305.33	0.09	1.87		1.88	0.000067	0.40	769.16	439.14	0.10
San Nicola	Valle	1487	T200	352.99	0.09	1.89		1.90	0.000086	0.45	778.69	439.38	0.11
San Nicola	Valle	1487	T500	416.27	0.09	1.92		1.94	0.000112	0.53	793.13	439.75	0.12
San Nicola	Valle	1382	T50	257.97	0.10	1.85		1.85	0.000012	0.16	1891.25	1376.97	0.04
San Nicola	Valle	1382	T100	305.33	0.10	1.87		1.87	0.000015	0.19	1918.01	1384.00	0.05
San Nicola	Valle	1382	T200	352.99	0.10	1.89		1.89	0.000020	0.22	1948.98	1390.58	0.05
San Nicola	Valle	1382	T500	416.27	0.10	1.93		1.93	0.000026	0.25	1996.12	1399.23	0.06
San Nicola	Valle	1171	T50	257.97	0.10	1.85		1.85	0.000005	0.11	2543.62	1503.81	0.03
San Nicola	Valle	1171	T100	305.33	0.10	1.87		1.87	0.000007	0.13	2572.92	1506.48	0.03
San Nicola	Valle	1171	T200	352.99	0.10	1.89		1.89	0.000009	0.14	2606.73	1509.71	0.03
San Nicola	Valle	1171	T500	416.27	0.10	1.93		1.93	0.000011	0.17	2658.03	1514.87	0.04
San Nicola	Valle	928	T50	257.97	0.04	1.85		1.85	0.000006	0.12	2225.61	1283.80	0.03
San Nicola	Valle	928	T100	305.33	0.04	1.87		1.87	0.000008	0.14	2250.50	1283.97	0.03
San Nicola	Valle	928	T200	352.99	0.04	1.89		1.89	0.000010	0.16	2279.17	1284.17	0.04
San Nicola	Valle	928	T500	416.27	0.04	1.93		1.93	0.000013	0.18	2322.57	1284.57	0.04
San Nicola	Valle	453	T50	257.97	0.07	1.85		1.85	0.000005	0.11	2319.28	1381.30	0.03
San Nicola	Valle	453	T100	305.33	0.07	1.87		1.87	0.000007	0.13	2344.80	1382.27	0.03
San Nicola	Valle	453	T200	352.99	0.07	1.89		1.89	0.000009	0.15	2374.29	1383.35	0.04
San Nicola	Valle	453	T500	416.27	0.07	1.92		1.92	0.000012	0.17	2419.13	1384.95	0.04
San Nicola	Valle	189	T50	257.97	0.06	1.84		1.85	0.000025	0.24	1075.08	637.63	0.06
San Nicola	Valle	189	T100	305.33	0.06	1.86		1.86	0.000034	0.29	1085.65	638.19	0.07

HEC-RAS Plan: Plan 03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
San Nicola	Valle	189	T200	352.99	0.06	1.88		1.88	0.000044	0.33	1097.93	640.74	0.08
San Nicola	Valle	189	T500	416.27	0.06	1.91		1.91	0.000058	0.38	1116.84	646.81	0.09
San Nicola	Valle	10	T50	257.97	1.01	1.80	1.39	1.83	0.000939	0.83	372.73	875.03	0.31
San Nicola	Valle	10	T100	305.33	1.01	1.80	1.46	1.84	0.001316	0.98	372.73	875.03	0.37
San Nicola	Valle	10	T200	352.99	1.01	1.80	1.50	1.85	0.001759	1.13	372.73	875.03	0.42
San Nicola	Valle	10	T500	416.27	1.01	1.80	1.57	1.88	0.002446	1.34	372.73	875.03	0.50
monte	affluente	3232	T50	74.82	41.17	42.97	42.97	43.28	0.010233	2.88	33.99	54.57	0.83
monte	affluente	3232	T100	89.67	41.17	43.06	43.06	43.40	0.010280	3.03	39.09	56.84	0.84
monte	affluente	3232	T200	104.72	41.17	43.14	43.14	43.51	0.010392	3.17	43.78	58.50	0.85
monte	affluente	3232	T500	124.83	41.17	43.24	43.24	43.64	0.010446	3.33	49.70	60.25	0.87
monte	affluente	3149	T50	74.82	40.36	41.82	41.88	42.21	0.016418	3.28	29.77	48.58	1.02
monte	affluente	3149	T100	89.67	40.36	41.91	41.97	42.33	0.016225	3.44	34.06	50.60	1.03
monte	affluente	3149	T200	104.72	40.36	41.99	42.06	42.44	0.015897	3.57	38.36	52.54	1.03
monte	affluente	3149	T500	124.83	40.36	42.09	42.16	42.58	0.015611	3.73	43.75	54.74	1.04
monte	affluente	3018	T50	74.82	38.97	39.67	39.62	39.89	0.012601	1.93	37.85	67.55	0.82
monte	affluente	3018	T100	89.67	38.97	39.75	39.69	39.98	0.012632	2.10	42.87	69.73	0.83
monte	affluente	3018	T200	104.72	38.97	39.82	39.76	40.07	0.012248	2.22	48.24	72.02	0.84
monte	affluente	3018	T500	124.83	38.97	39.91	39.84	40.19	0.012285	2.40	54.43	74.49	0.85
monte	affluente	2920	T50	74.82	36.51	38.44	38.44	38.67	0.012015	2.67	39.41	79.78	0.86
monte	affluente	2920	T100	89.67	36.51	38.51	38.51	38.76	0.012207	2.81	44.67	82.10	0.88
monte	affluente	2920	T200	104.72	36.51	38.56	38.56	38.84	0.012762	2.97	49.13	84.00	0.91
monte	affluente	2920	T500	124.83	36.51	38.63	38.63	38.94	0.012993	3.13	55.24	86.08	0.92
monte	affluente	2820	T50	74.82	35.64	37.14	37.05	37.32	0.007997	2.34	43.99	73.98	0.72
monte	affluente	2820	T100	89.67	35.64	37.23	37.13	37.42	0.007698	2.42	50.59	76.75	0.71
monte	affluente	2820	T200	104.72	35.64	37.32	37.19	37.51	0.007348	2.47	57.09	78.64	0.71
monte	affluente	2820	T500	124.83	35.64	37.42	37.27	37.63	0.006966	2.54	65.43	80.90	0.70
monte	affluente	2757	T50	74.82	35.06	36.77		36.90	0.005231	2.00	48.94	69.62	0.59
monte	affluente	2757	T100	89.67	35.06	36.88		37.02	0.004835	2.05	57.14	72.64	0.58
monte	affluente	2757	T200	104.72	35.06	36.99		37.14	0.004502	2.09	65.28	75.16	0.56
monte	affluente	2757	T500	124.83	35.06	37.10		37.26	0.004519	2.20	73.68	77.61	0.57
monte	affluente	2680	T50	74.82	34.50	36.06	35.99	36.34	0.010090	2.77	34.30	49.59	0.82
monte	affluente	2680	T100	89.67	34.50	36.15	36.08	36.47	0.010706	3.00	38.96	54.55	0.85
monte	affluente	2680	T200	104.72	34.50	36.22	36.22	36.59	0.011542	3.24	43.25	59.42	0.90
monte	affluente	2680	T500	124.83	34.50	36.33	36.33	36.72	0.011109	3.35	50.14	63.77	0.89
monte	affluente	2612	T50	74.82	33.95	35.39	35.39	35.62	0.010855	2.62	41.20	85.50	0.83
monte	affluente	2612	T100	89.67	33.95	35.45	35.45	35.70	0.011488	2.80	46.13	87.65	0.86
monte	affluente	2612	T200	104.72	33.95	35.54	35.51	35.78	0.009913	2.75	54.34	90.46	0.81
monte	affluente	2612	T500	124.83	33.95	35.66	35.58	35.88	0.008311	2.68	65.27	93.43	0.76
monte	affluente	2488	T50	74.82	32.73	34.93	34.45	35.01	0.002061	1.54	66.82	75.93	0.39
monte	affluente	2488	T100	89.67	32.73	35.04	34.53	35.13	0.002122	1.63	75.35	78.90	0.40
monte	affluente	2488	T200	104.72	32.73	35.14		35.23	0.002177	1.72	83.22	80.81	0.41
monte	affluente	2488	T500	124.83	32.73	35.26		35.36	0.002248	1.82	93.01	83.12	0.42
monte	affluente	2354	T50	74.82	33.71	34.08	34.08	34.37	0.017939	1.13	31.94	57.23	0.81
monte	affluente	2354	T100	89.67	33.71	34.17	34.17	34.48	0.017186	1.27	36.83	60.27	0.83
monte	affluente	2354	T200	104.72	33.71	34.24	34.24	34.58	0.016869	1.39	41.38	62.95	0.84
monte	affluente	2354	T500	124.83	33.71	34.33	34.33	34.70	0.016309	1.53	47.47	66.36	0.85
monte	affluente	2235	T50	74.82	32.21	33.11	32.80	33.21	0.004246	1.28	54.10	73.55	0.49
monte	affluente	2235	T100	89.67	32.21	33.21	32.87	33.32	0.004240	1.39	61.42	76.93	0.50
monte	affluente	2235	T200	104.72	32.21	33.30	32.95	33.42	0.004253	1.50	68.42	79.95	0.51
monte	affluente	2235	T500	124.83	32.21	33.41	33.03	33.55	0.004246	1.62	77.47	83.55	0.52
monte	affluente	2070	T50	74.82	30.73	31.66	31.66	31.97	0.015747	2.91	31.82	51.75	0.98
monte	affluente	2070	T100	89.67	30.73	31.75	31.75	32.09	0.015475	3.06	36.36	54.24	0.99
monte	affluente	2070	T200	104.72	30.73	31.83	31.83	32.20	0.015094	3.19	40.89	56.45	0.99
monte	affluente	2070	T500	124.83	30.73	31.93	31.93	32.33	0.014733	3.35	46.63	59.01	0.99
monte	affluente	1914	T50	74.82	29.08	30.70	30.18	30.80	0.002516	1.67	57.05	56.57	0.43
monte	affluente	1914	T100	89.67	29.08	30.83	30.28	30.94	0.002562	1.78	64.45	59.11	0.44
monte	affluente	1914	T200	104.72	29.08	30.95	30.37	31.07	0.002615	1.88	71.46	61.43	0.45
monte	affluente	1914	T500	124.83	29.08	31.09	30.48	31.23	0.002661	2.00	80.51	64.30	0.46
monte	affluente	1723	T50	74.82	28.56	29.73		29.93	0.010075	2.35	46.00	68.08	0.71
monte	affluente	1723	T100	89.67	28.56	29.82		30.05	0.010562	2.53	52.30	73.12	0.74
monte	affluente	1723	T200	104.72	28.56	29.90		30.15	0.011012	2.69	58.31	77.74	0.76
monte	affluente	1723	T500	124.83	28.56	30.00		30.28	0.011609	2.90	66.44	85.67	0.79
monte	affluente	1588	T50	74.82	27.51	28.64		28.79	0.007049	2.21	46.92	77.52	0.68
monte	affluente	1588	T100	89.67	27.51	28.73		28.89	0.006930	2.31	53.94	82.15	0.68
monte	affluente	1588	T200	104.72	27.51	28.81		28.99	0.006798	2.39	60.85	86.28	0.68
monte	affluente	1588	T500	124.83	27.51	28.91		29.10	0.006626	2.48	69.64	90.61	0.68
monte	affluente	1472	T50	74.82	26.75	27.87		28.02	0.006264	2.09	47.63	71.84	0.64
monte	affluente	1472	T100	89.67	26.75	27.96		28.12	0.006287	2.21	54.38	76.32	0.65
monte	affluente	1472	T200	104.72	26.75	28.05		28.22	0.006364	2.33	60.77	80.50	0.66
monte	affluente	1472	T500	124.83	26.75	28.14		28.33	0.006513	2.47	68.71	85.42	0.68
monte	affluente	1386	T50	74.82	26.09	26.90	26.90	27.17	0.016907	2.36	32.77	59.79	0.96
monte	affluente	1386	T100	89.67	26.09	26.98	26.98	27.28	0.016788	2.54	37.63	63.84	0.97
monte	affluente	1386	T200	104.72	26.09	27.05	27.05	27.38	0.016431	2.70	42.62	67.78	0.98
monte	affluente	1386	T500	124.83	26.09	27.15	27.15	27.49	0.015760	2.86	49.40	72.72	0.98
monte	affluente	1302	T50	74.82	25.51	26.11	25.92	26.23	0.006835	1.16	50.05	86.99	0.57
monte	affluente	1302	T100	89.67	25.51	26.18	25.99	26.32	0.007024	1.31	56.85	92.88	0.60
monte	affluente	1302	T200	104.72	25.51	26.25	26.06	26.40	0.007157	1.45	63.50	98.19	0.61
monte	affluente	1302	T500	124.83	25.51	26.33	26.14	26.49	0.007428	1.61	71.35	103.62	0.64

HEC-RAS Plan: Plan 03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
monte	affluente	1189	T50	74.82	24.99	24.74	24.74	24.96	0.021277		36.10	84.21	0.00
monte	affluente	1189	T100	89.67	24.99	24.80	24.80	25.04	0.020650		41.62	89.57	0.00
monte	affluente	1189	T200	104.72	24.99	24.86	24.86	25.12	0.020225		46.92	94.31	0.00
monte	affluente	1189	T500	124.83	24.99	24.94	24.94	25.21	0.019242		54.13	99.80	0.00
monte	affluente	1059	T50	74.82	21.13	22.20	22.39	22.81	0.012752	4.29	30.56	93.33	1.67
monte	affluente	1059	T100	89.67	21.13	22.24	22.45	22.90	0.012949	4.50	35.21	97.11	1.69
monte	affluente	1059	T200	104.72	21.13	22.29	22.50	22.98	0.013038	4.68	39.69	100.46	1.70
monte	affluente	1059	T500	124.83	21.13	22.34	22.56	23.08	0.013160	4.88	45.14	103.74	1.72
monte	affluente	821	T50	74.82	18.09	19.79	19.72	19.93	0.011526	2.00	45.77	98.29	0.79
monte	affluente	821	T100	89.67	18.09	19.85	19.78	20.01	0.011712	2.05	51.47	101.14	0.80
monte	affluente	821	T200	104.72	18.09	19.90	19.81	20.08	0.012027	2.18	56.44	102.89	0.82
monte	affluente	821	T500	124.83	18.09	19.96	19.88	20.16	0.012232	2.32	62.93	105.08	0.84
monte	affluente	647	T50	74.82	16.67	18.53	18.32	18.62	0.005190	1.74	57.21	95.91	0.56
monte	affluente	647	T100	89.67	16.67	18.61	18.38	18.71	0.005009	1.80	65.34	98.69	0.56
monte	affluente	647	T200	104.72	16.67	18.69	18.44	18.80	0.004787	1.85	73.62	101.50	0.55
monte	affluente	647	T500	124.83	16.67	18.80	18.50	18.91	0.004553	1.91	84.41	106.87	0.55
monte	affluente	570	T50	74.82	16.62	17.99		18.14	0.007500	1.93	44.30	65.04	0.67
monte	affluente	570	T100	89.67	16.62	18.09		18.25	0.007120	2.02	50.67	67.00	0.66
monte	affluente	570	T200	104.72	16.62	18.16		18.35	0.007250	2.15	55.76	68.55	0.68
monte	affluente	570	T500	124.83	16.62	18.25		18.46	0.007466	2.30	62.42	80.97	0.70
monte	affluente	384	T50	74.82	15.88	17.54	17.24	17.58	0.001493	1.20	98.29	160.98	0.32
monte	affluente	384	T100	89.67	15.88	17.60	17.29	17.64	0.001702	1.32	108.55	167.97	0.35
monte	affluente	384	T200	104.72	15.88	17.66	17.33	17.71	0.001811	1.40	118.37	171.21	0.36
monte	affluente	384	T500	124.83	15.88	17.73	17.38	17.79	0.001918	1.48	131.17	176.02	0.38
monte	affluente	355 dx	Culvert										
monte	affluente	332	T50	74.82	15.02	16.30	16.30	16.45	0.012856	2.39	51.27	163.68	0.86
monte	affluente	332	T100	89.67	15.02	16.34	16.34	16.50	0.013315	2.51	57.90	170.72	0.89
monte	affluente	332	T200	104.72	15.02	16.38	16.38	16.55	0.013105	2.58	65.22	179.30	0.89
monte	affluente	332	T500	124.83	15.02	16.42	16.42	16.61	0.014135	2.75	71.98	185.48	0.93
monte	affluente	186	T50	74.82	14.61	15.78	15.35	15.80	0.001480	0.93	105.93	184.99	0.30
monte	affluente	186	T100	89.67	14.61	15.88	15.40	15.91	0.001319	0.94	125.88	205.87	0.29
monte	affluente	186	T200	104.72	14.61	15.98	15.44	16.01	0.001179	0.94	147.34	226.91	0.28
monte	affluente	186	T500	124.83	14.61	16.10	15.50	16.13	0.001184	1.01	175.51	241.68	0.29

COMUNE DI SASSARI

Studio di Assetto Idraulico del territorio comunale

Variante al PAI ai sensi dell'art. 374 c.3 delle N.A.

Aggiornamento a seguito di prescrizioni (prot. N. 12928 del 30.12.2020)

Area di indagine: **TERRITORIO COMUNALE**

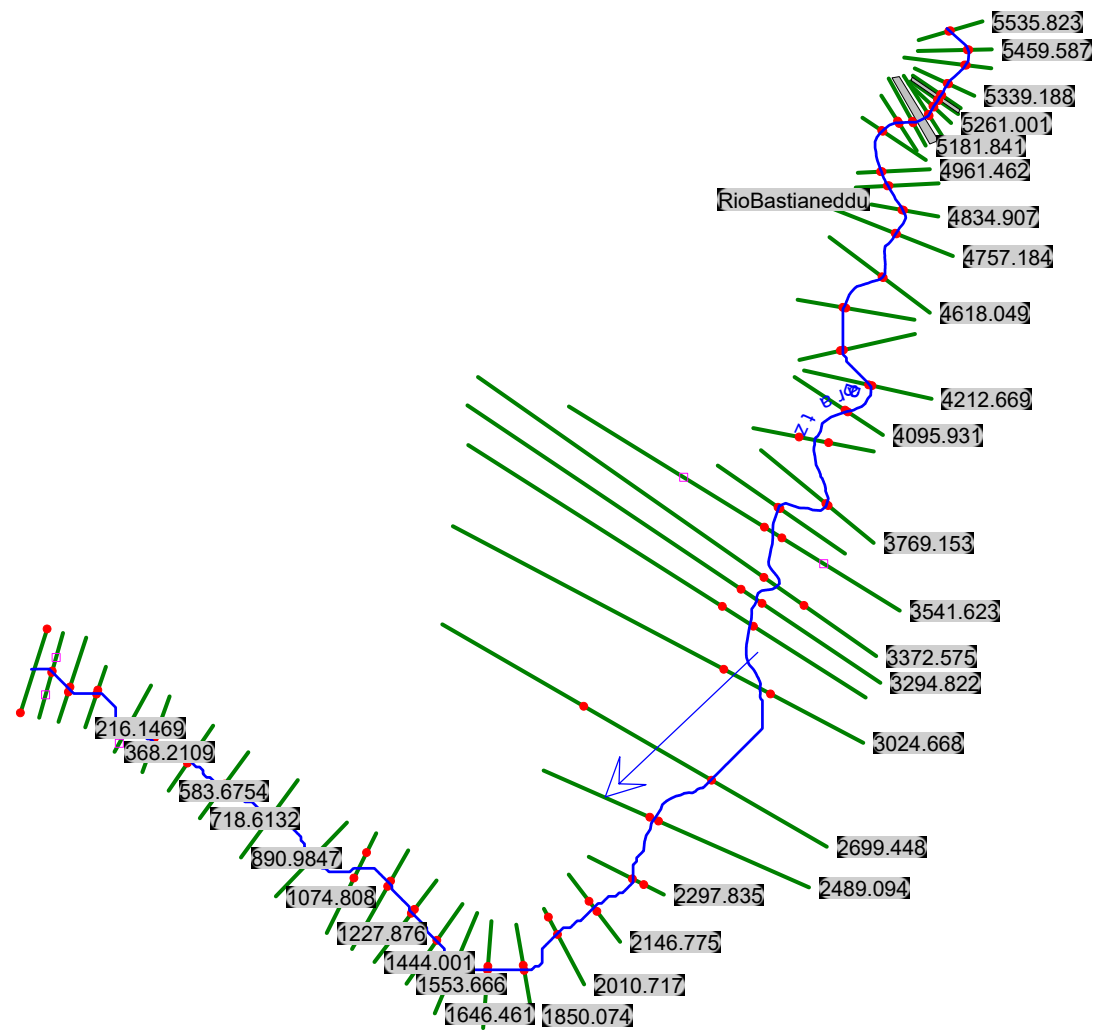
SIMULAZIONI IN MOTO PERMANENTE

Modello 19 : Lago di Baratz

- Schema planimetrico del modello matematico;
- Profili longitudinali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Sezioni trasversali con livelli idrici per tempi di ritorno 50, 100, 200 e 500 anni;
- Tabulati numerici di output per tempi di ritorno 50, 100, 200 e 500 anni;
- Calcolo della portata critica;
- Profilo longitudinale del livello idrico per il tempo di ritorno critico TC;
- Verifica dei franchi idraulici e della portata critica;

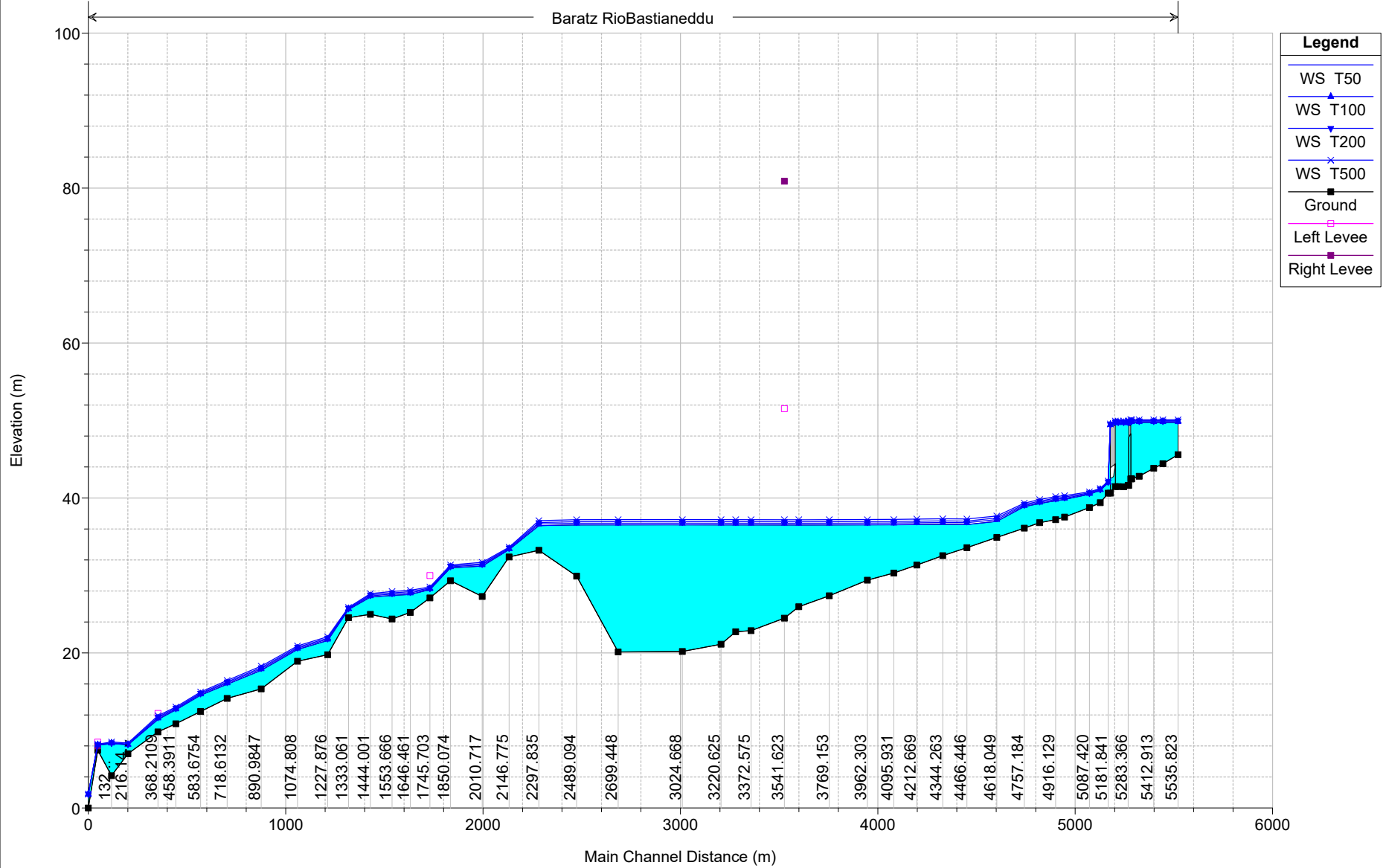
River	Reach	RS	PORTATE mc/s			
			T50	T100	T200	T500
Baratz	RioBastianeddu	5535.823	58.423	70.396	82.625	99.235
Baratz	RioBastianeddu	5087.42	76.239	92.547	109.183	131.546
Baratz	RioBastianeddu	3769.153	76.239	92.547	109.183	131.546
Baratz	RioBastianeddu	2489.094	89.148	107.285	125.699	150.347

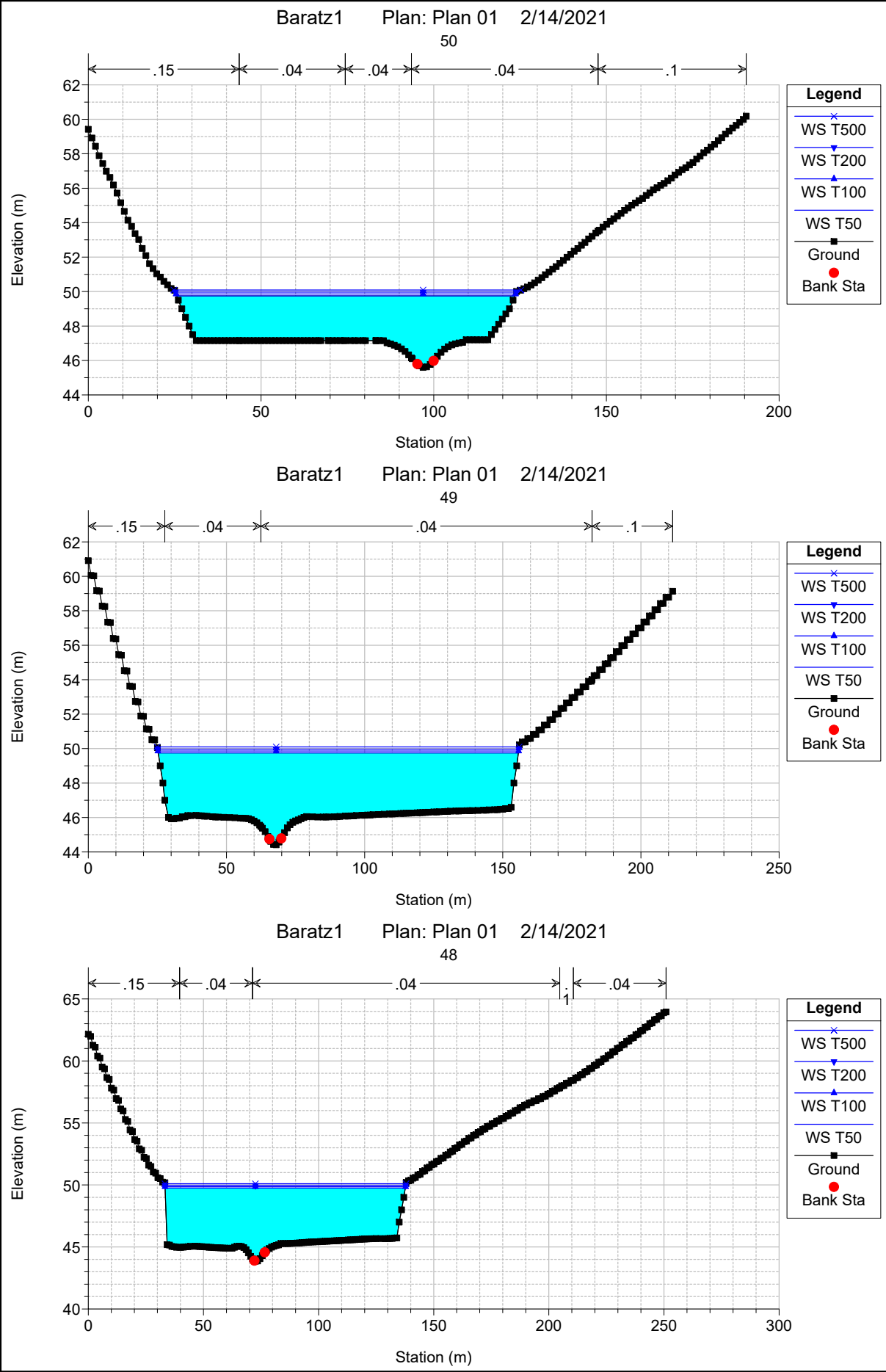
River	Reach	PROFILI	condizioni al contorno	
			upstream	downstream
Baratz	RioBastianeddu	all	Normal Dpeth S = 0.01	Known WS

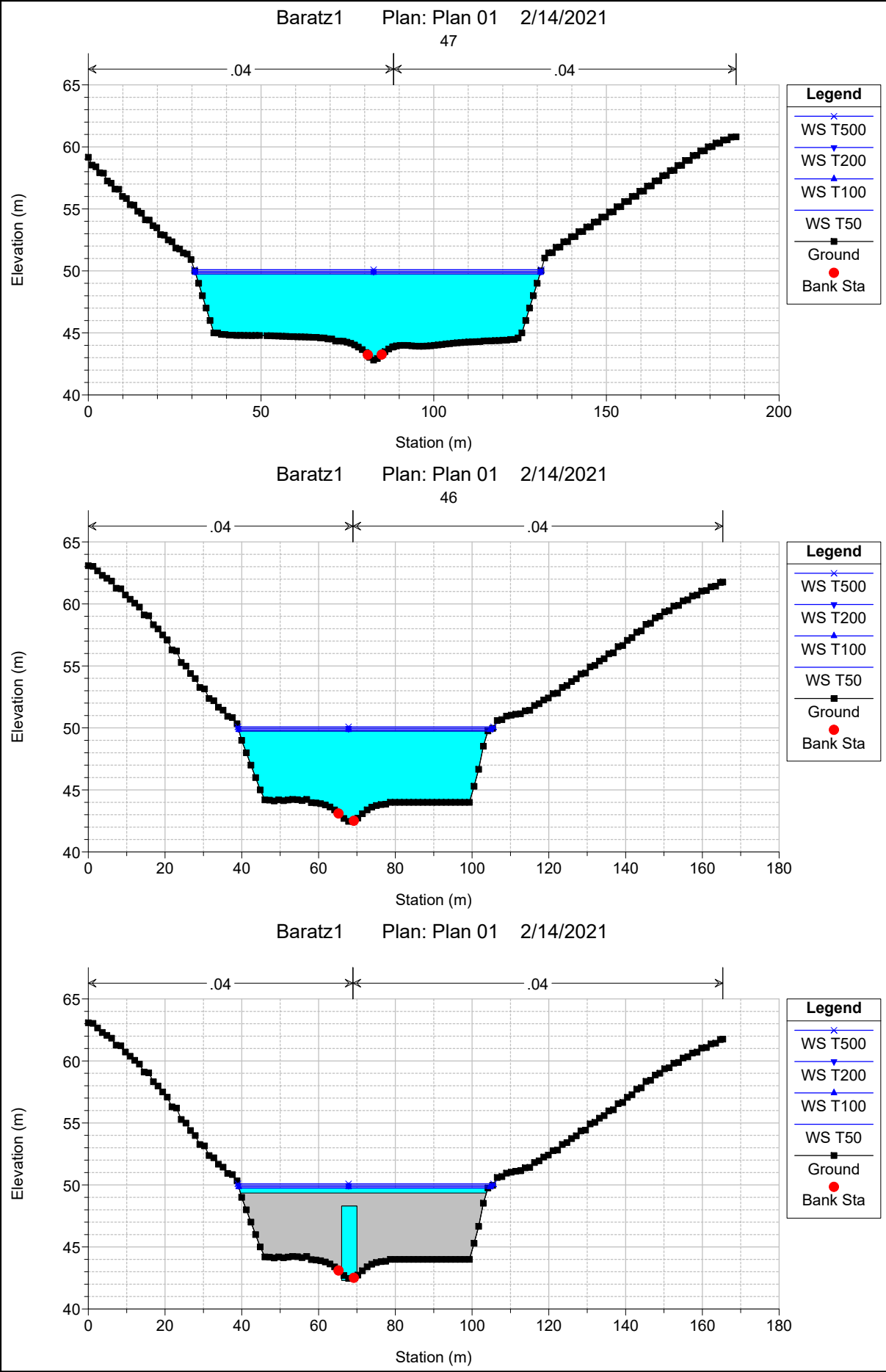


Baratz1 Plan: Plan 01 2/14/2021

Baratz RioBastianeddu







Baratz1

Plan: Plan 01

2/14/2021

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Elevation (m)

Station (m)

Legend

WS T500

WS T200

WS T100

WS T50

Ground

Bank Sta

Baratz1

Plan: Plan 01

2/14/2021

Elevation (m)

Station (m)

Legend

WS T500

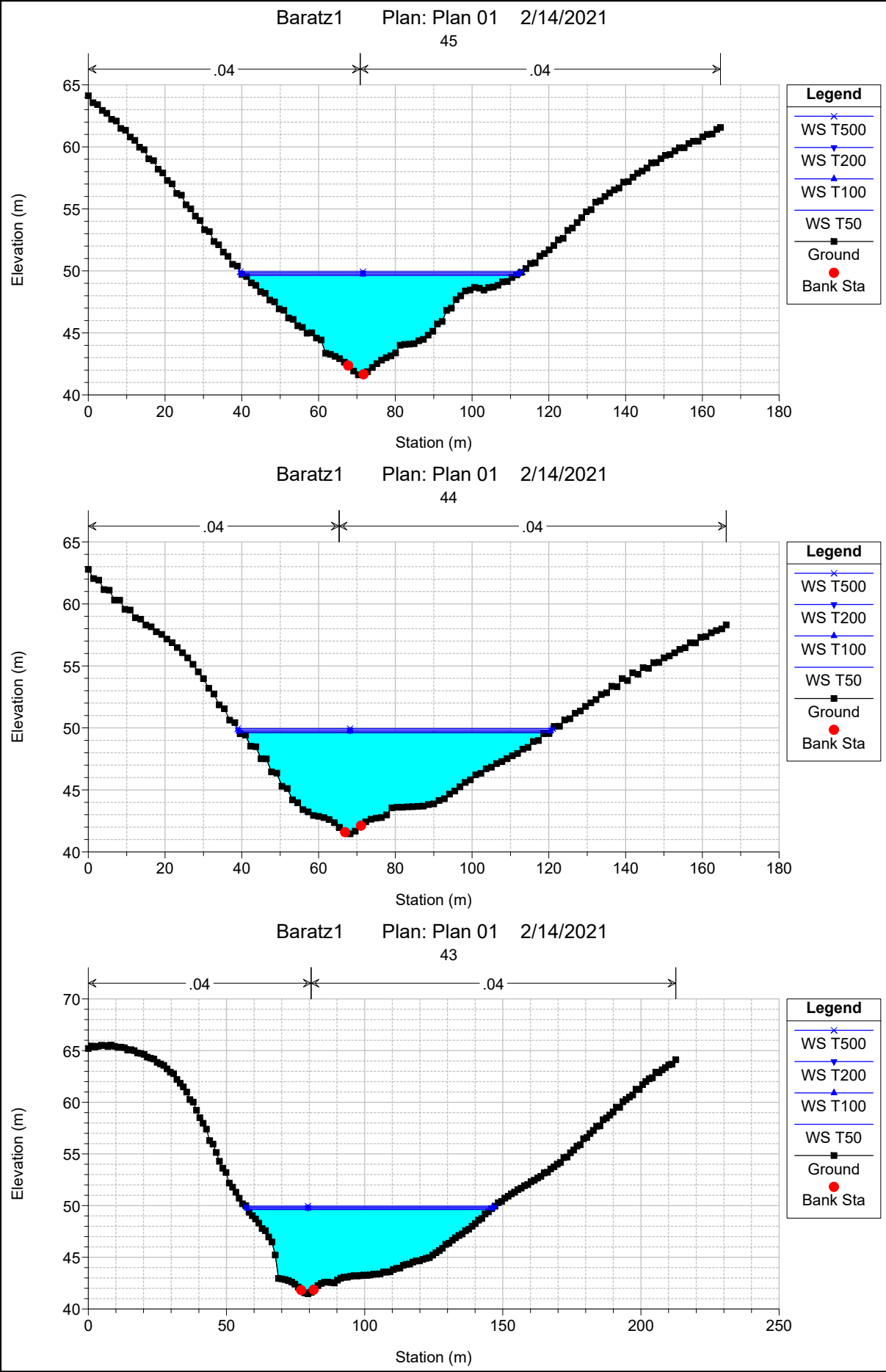
WS T200

WS T100

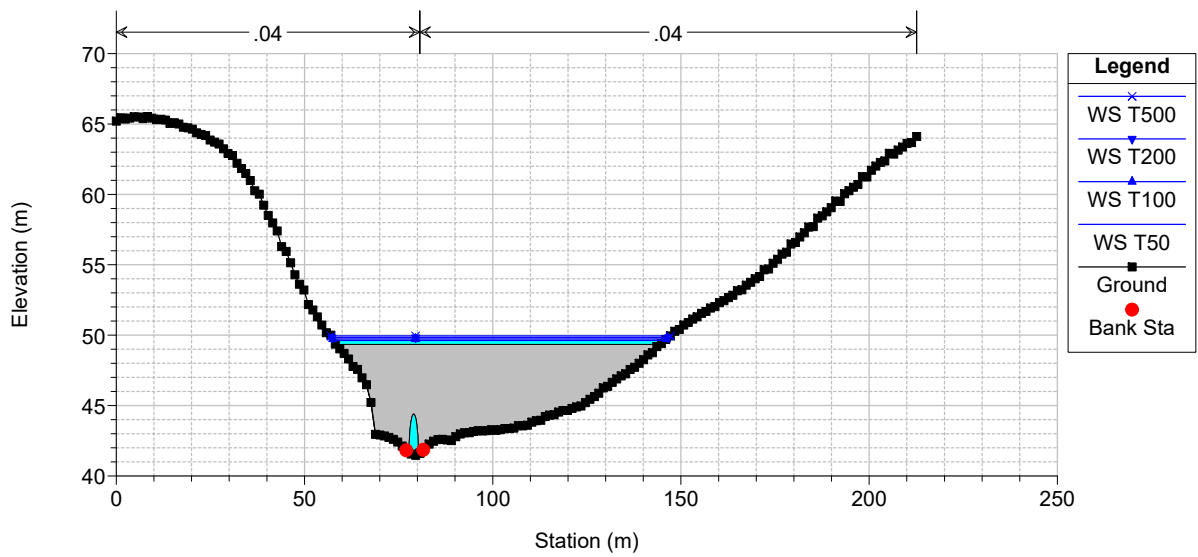
WS T50

Ground

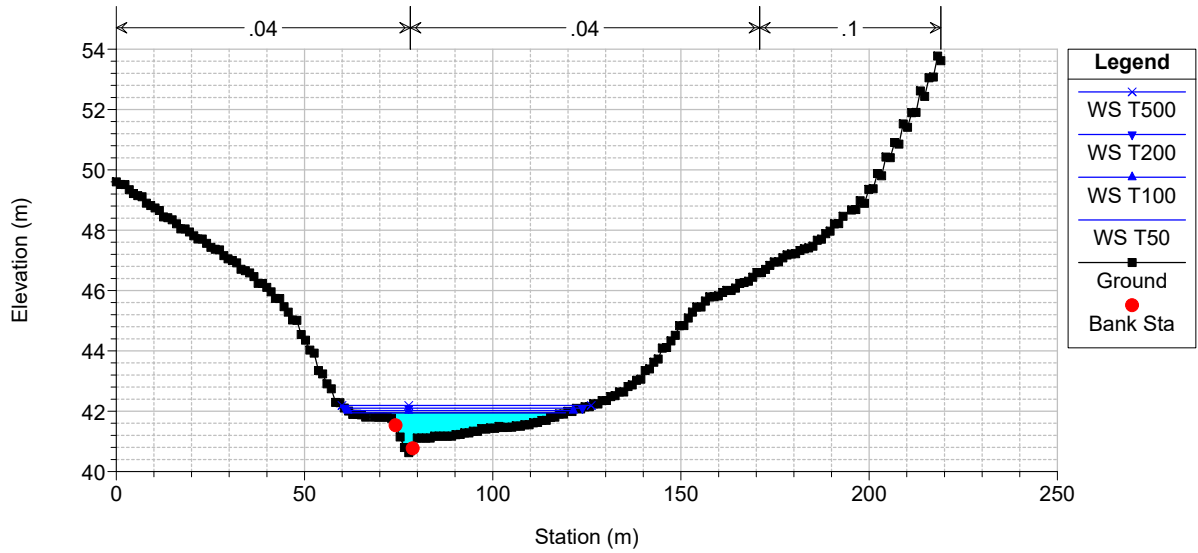
Bank Sta



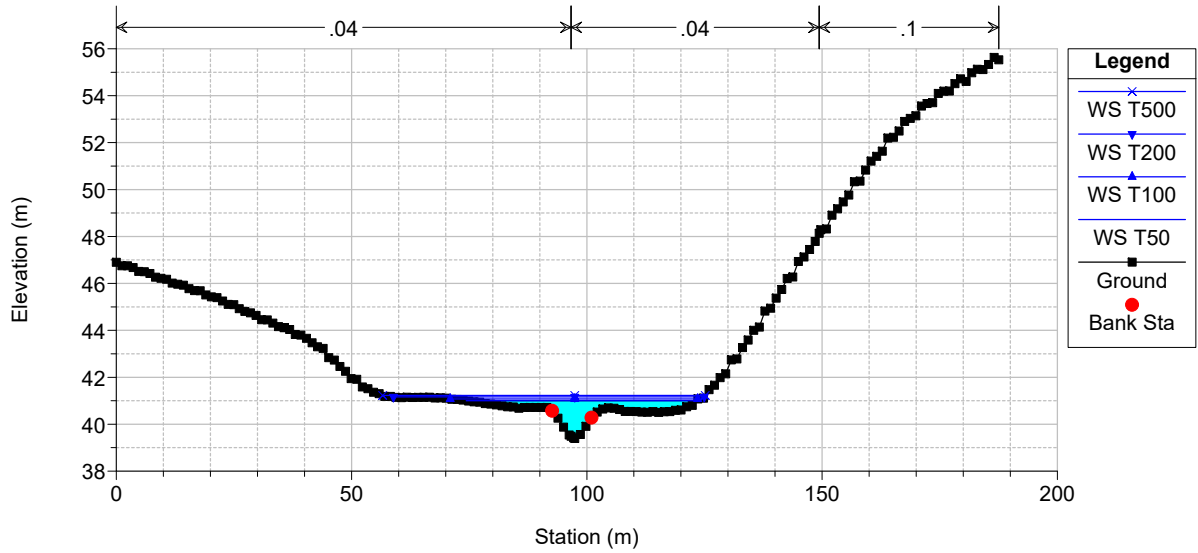
Baratz1 Plan: Plan 01 2/14/2021

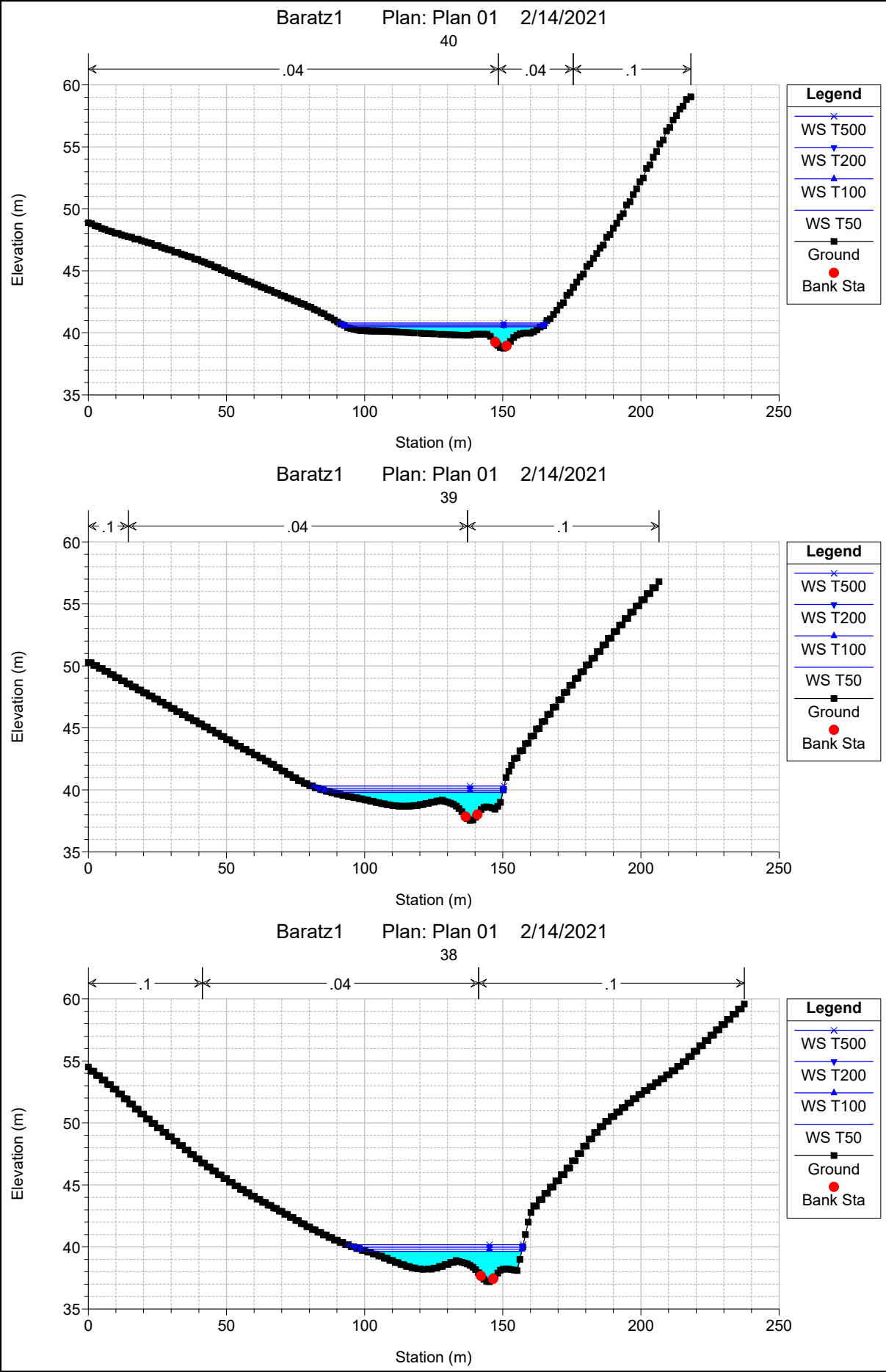


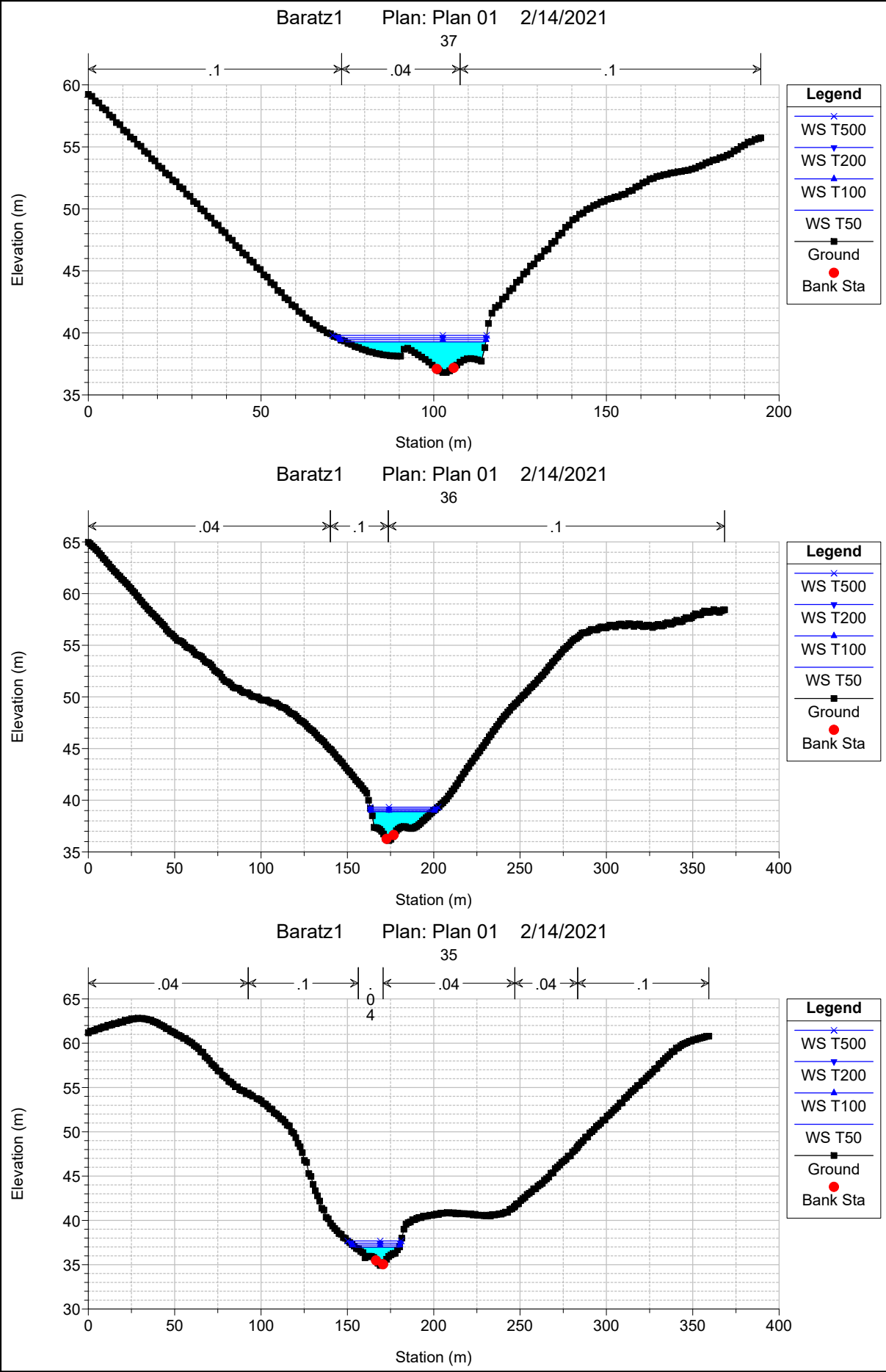
Baratz1 Plan: Plan 01 2/14/2021
42

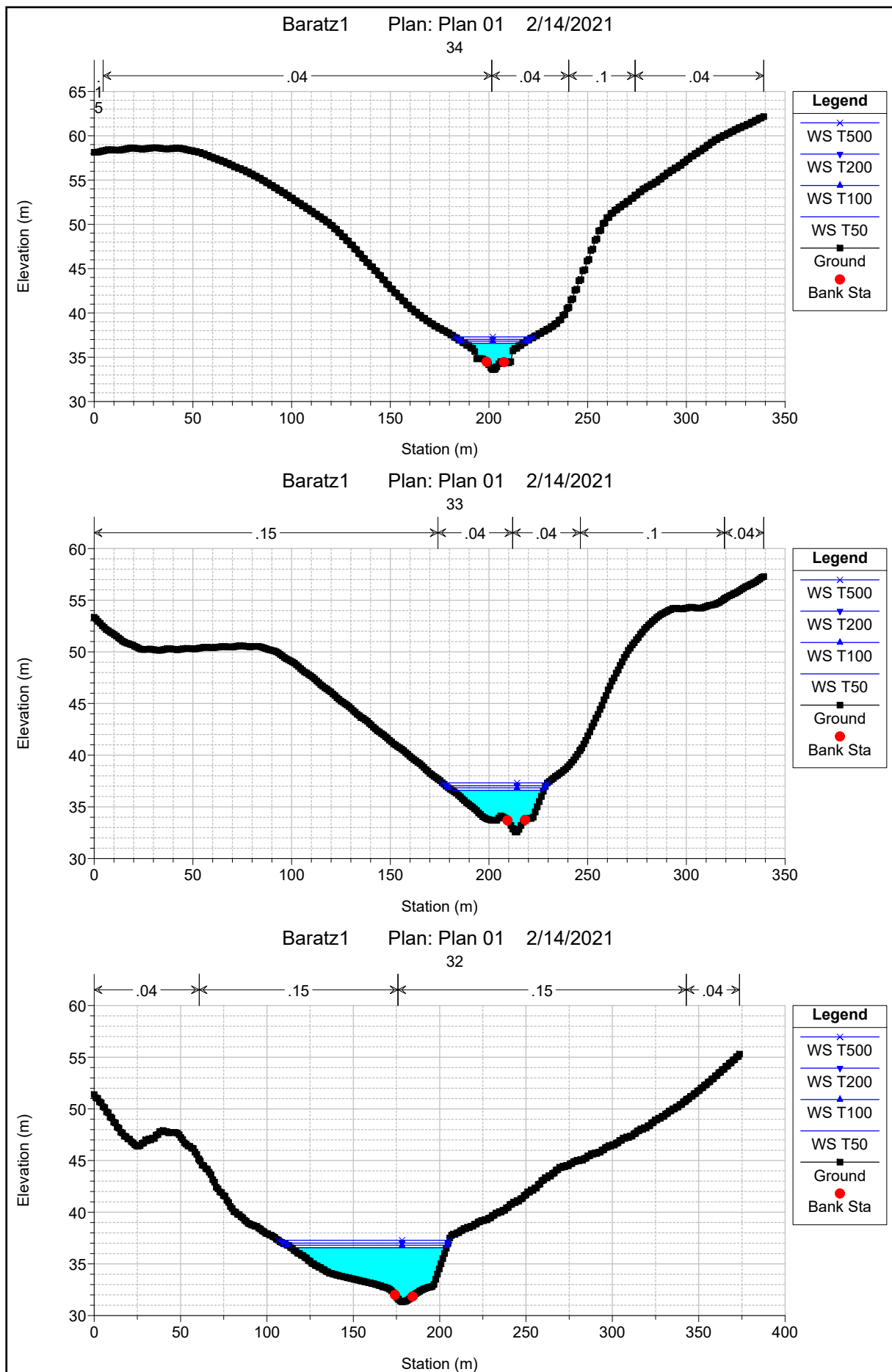


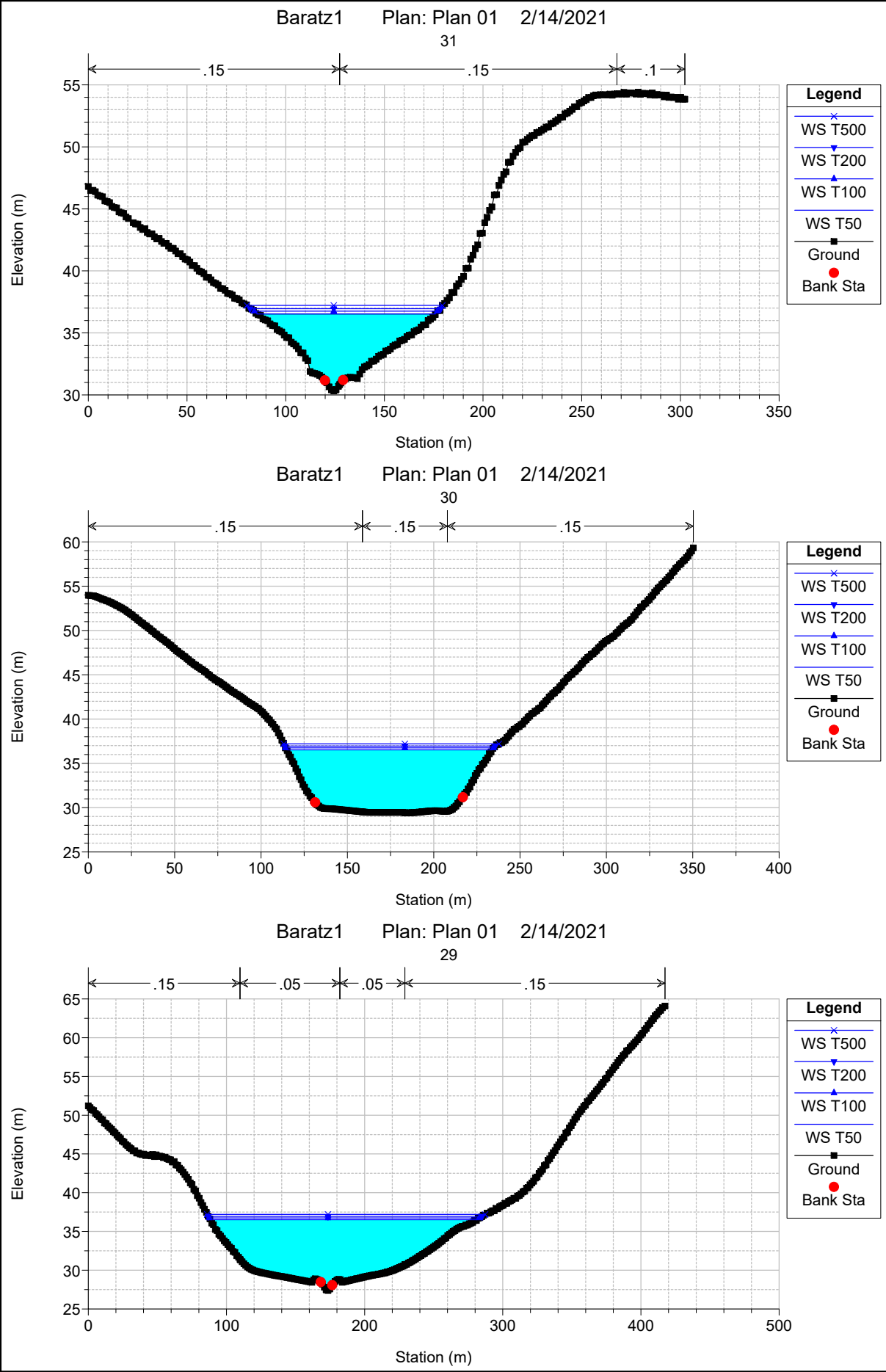
Baratz1 Plan: Plan 01 2/14/2021
41

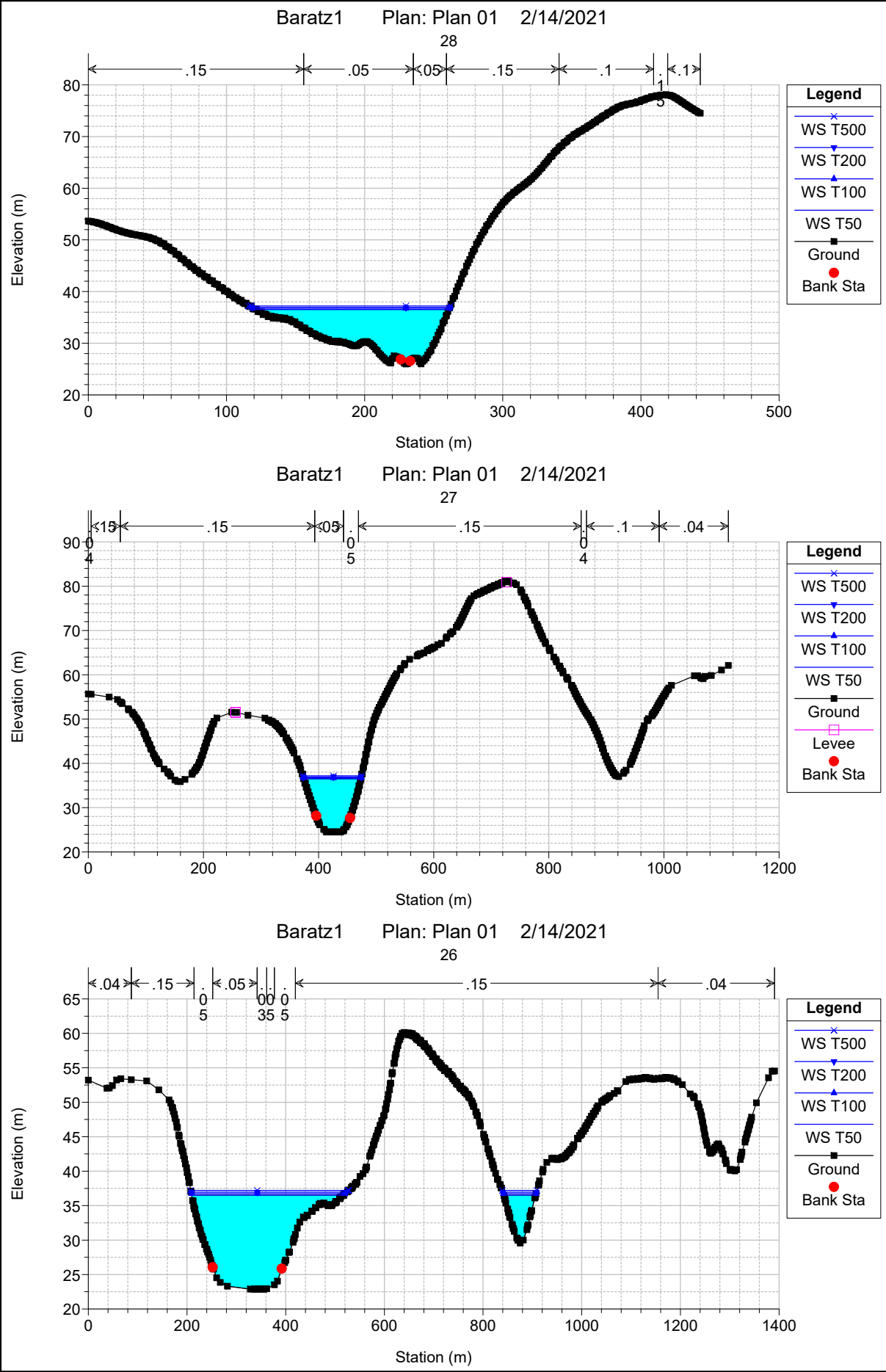


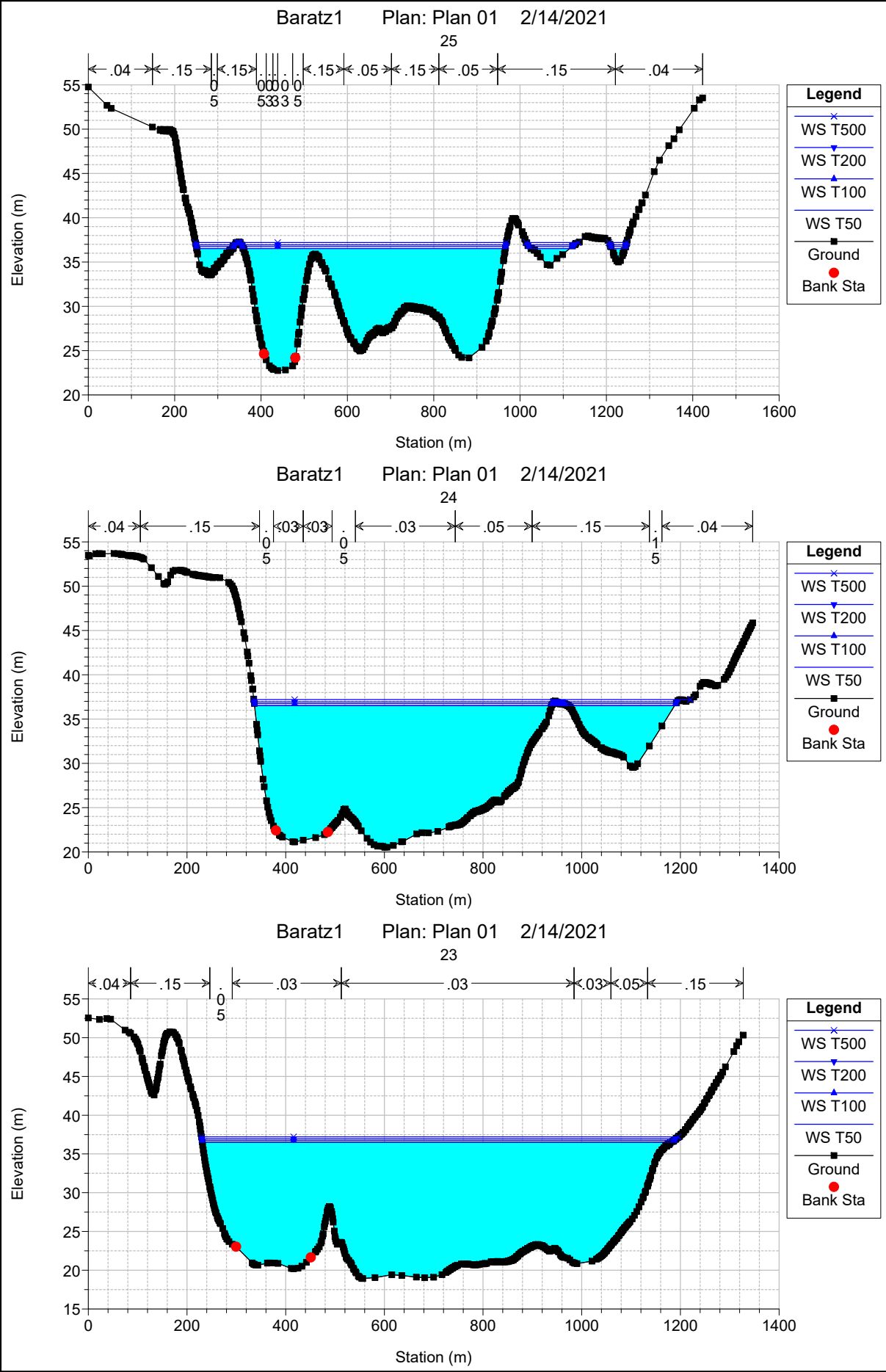


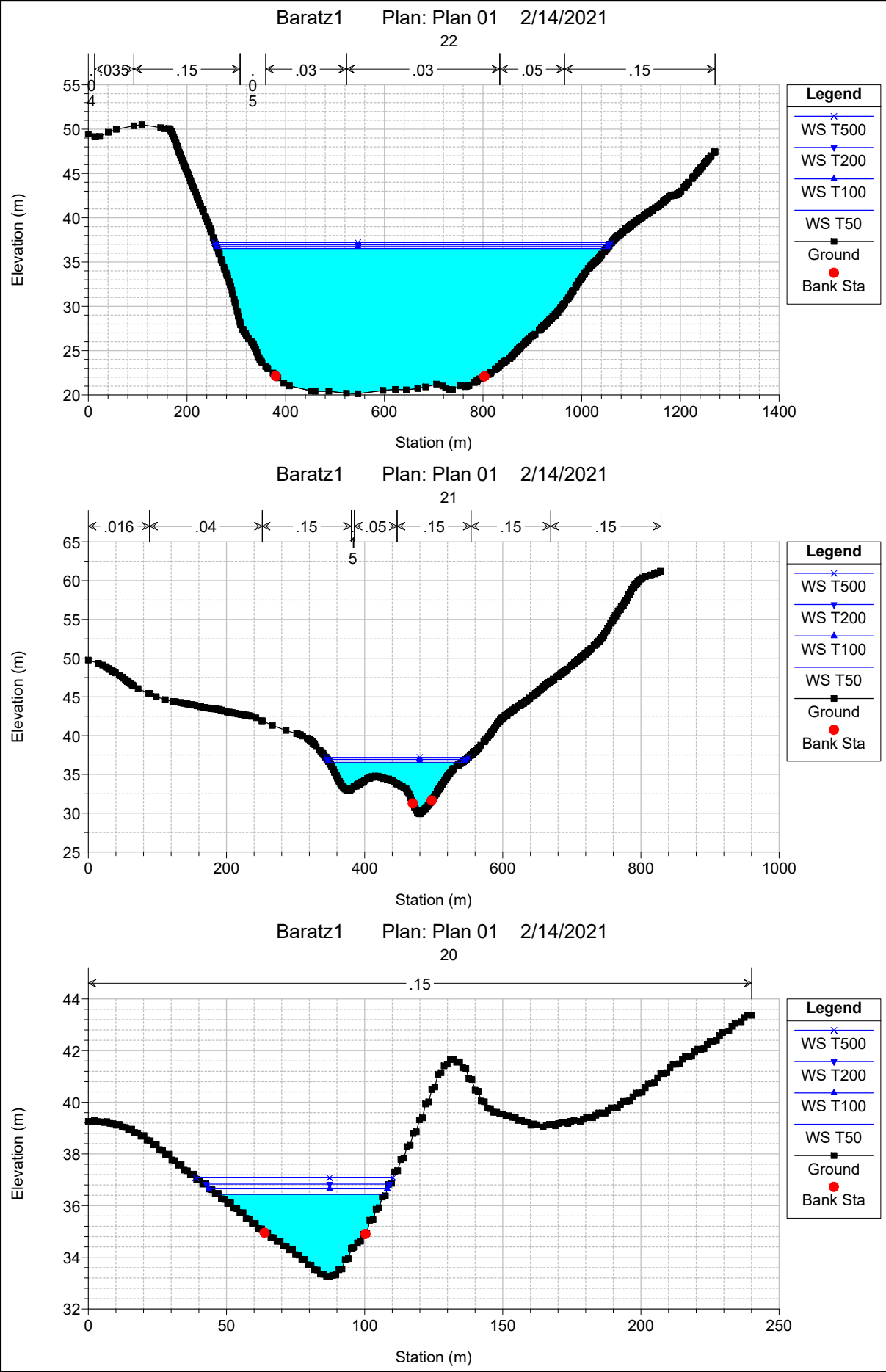


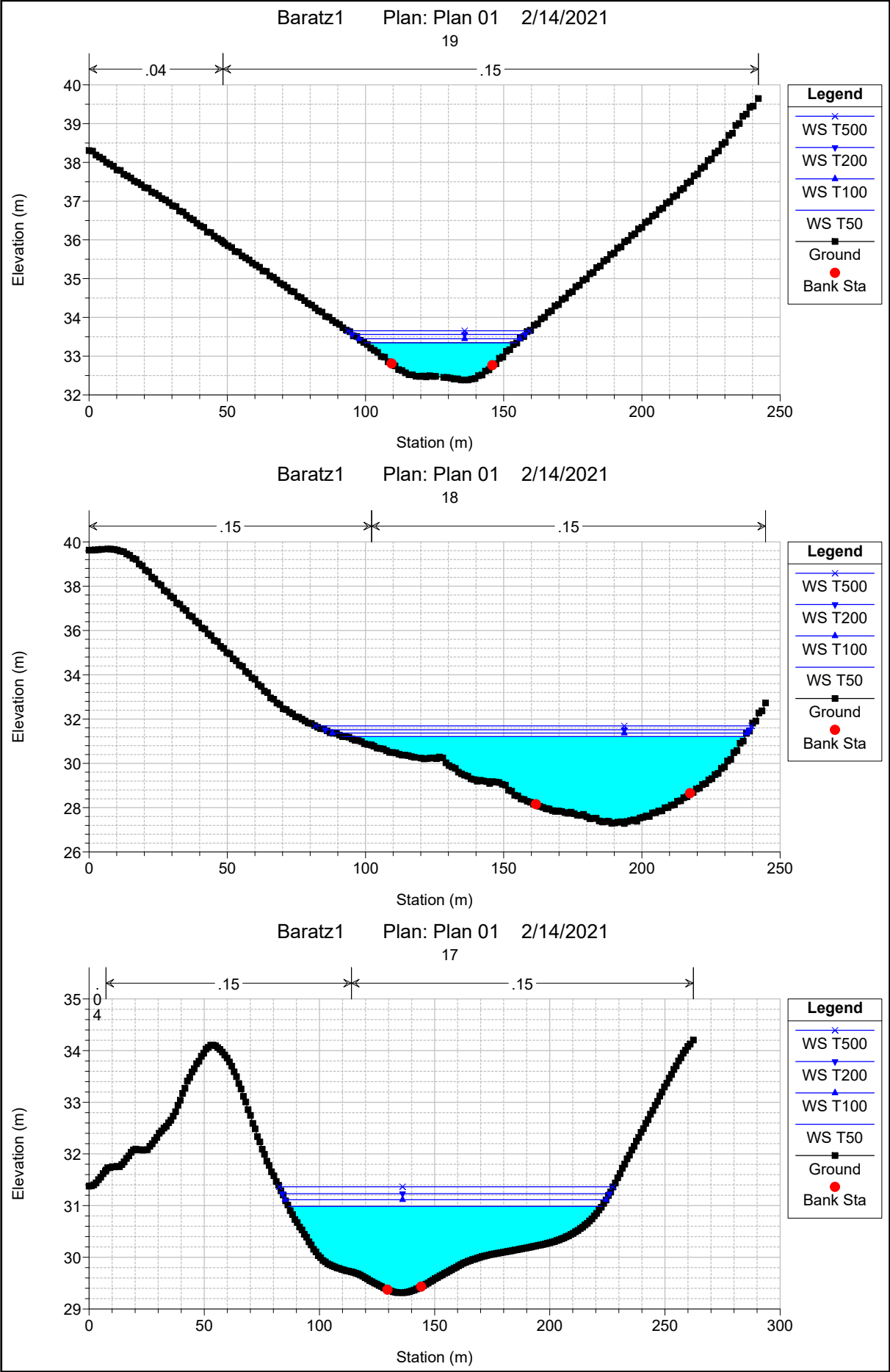


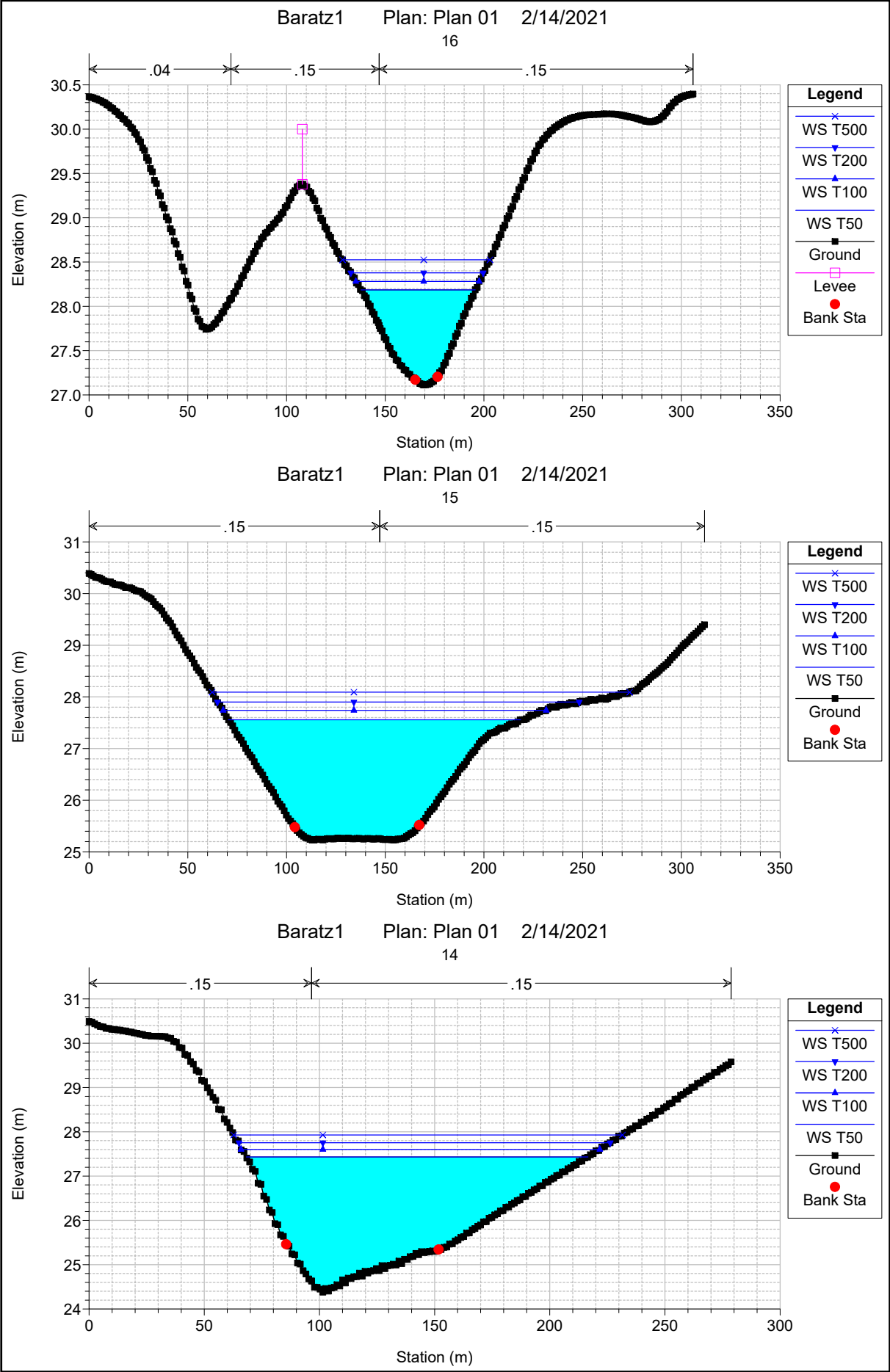


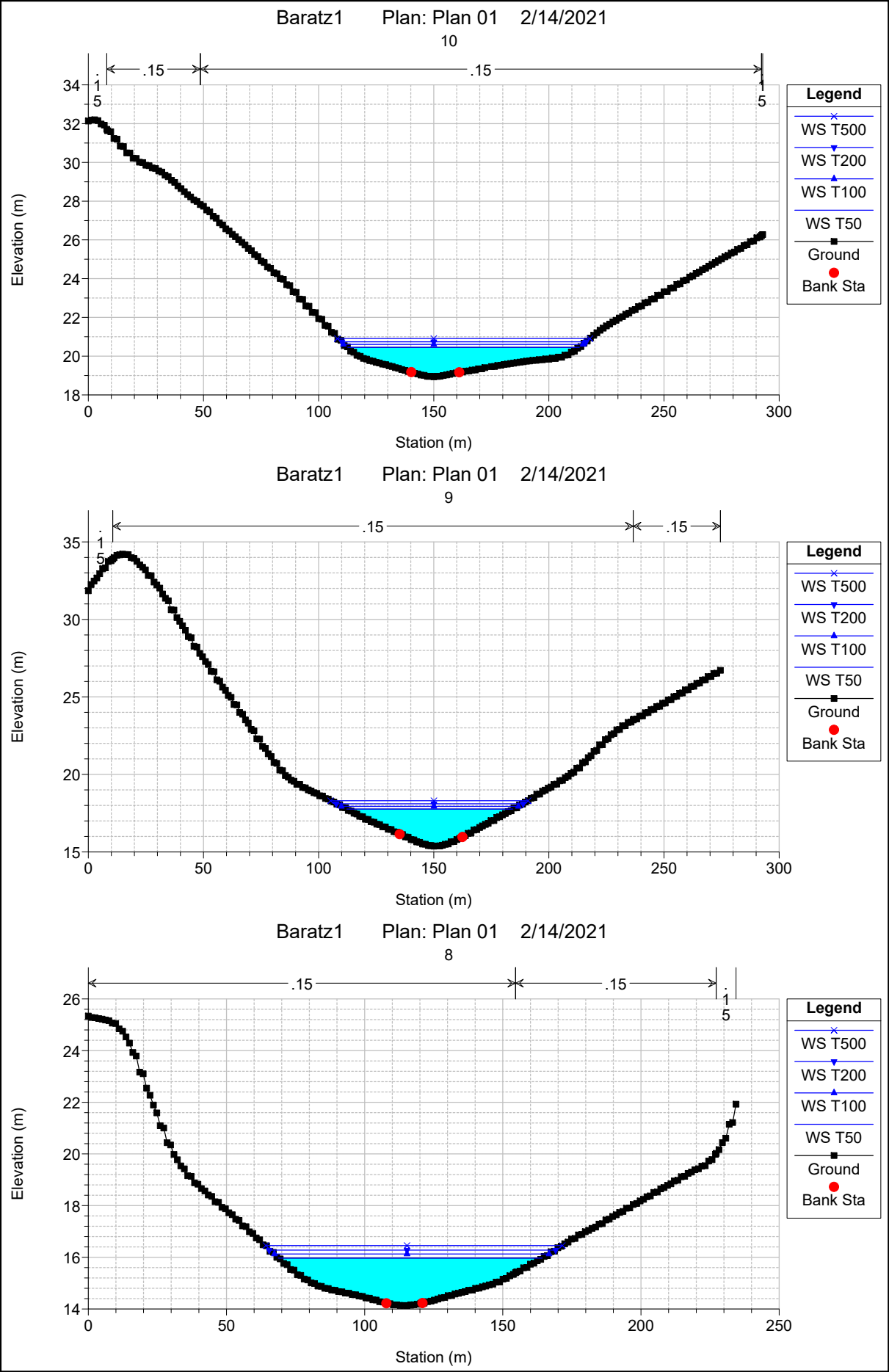


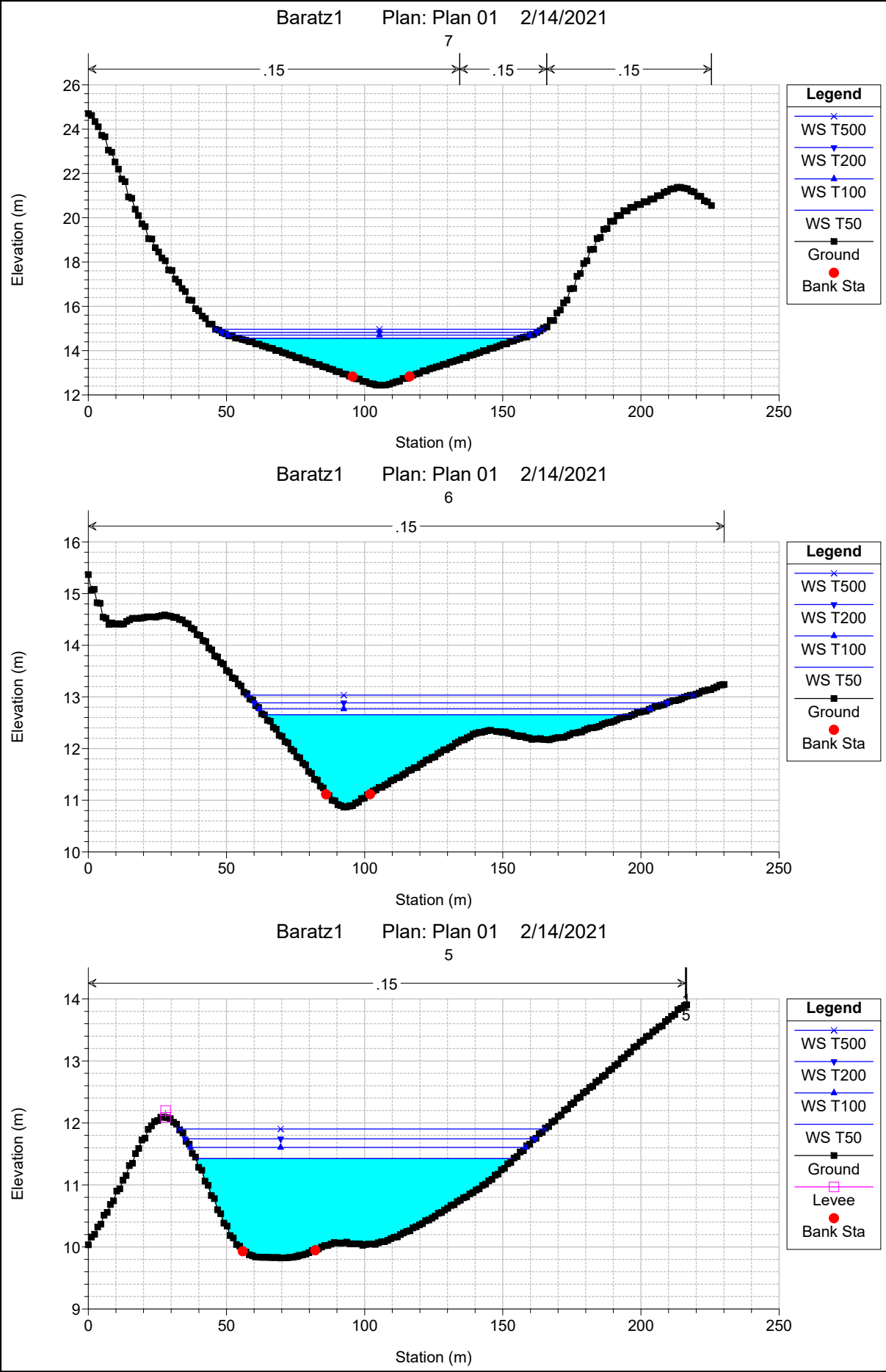


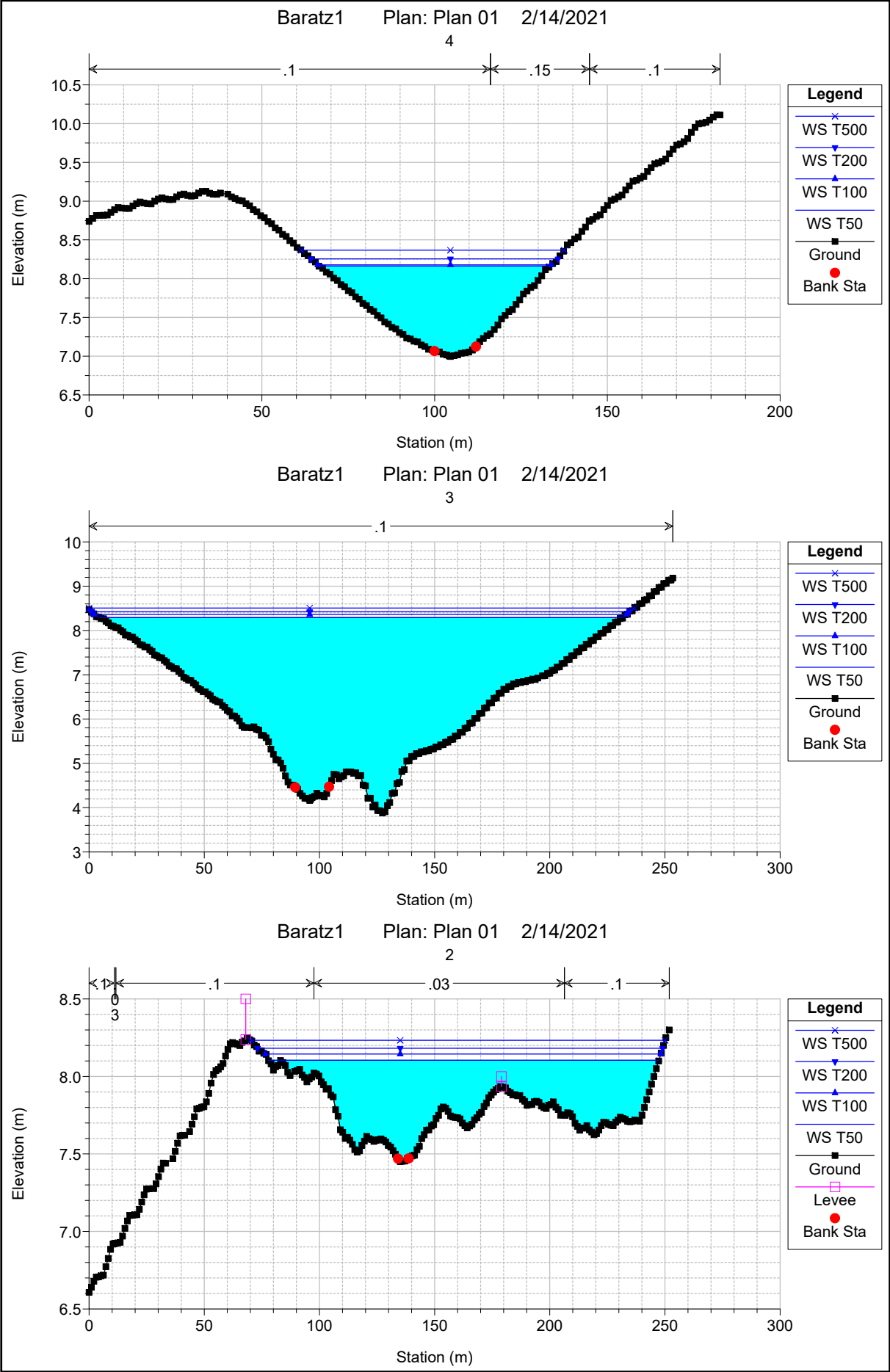


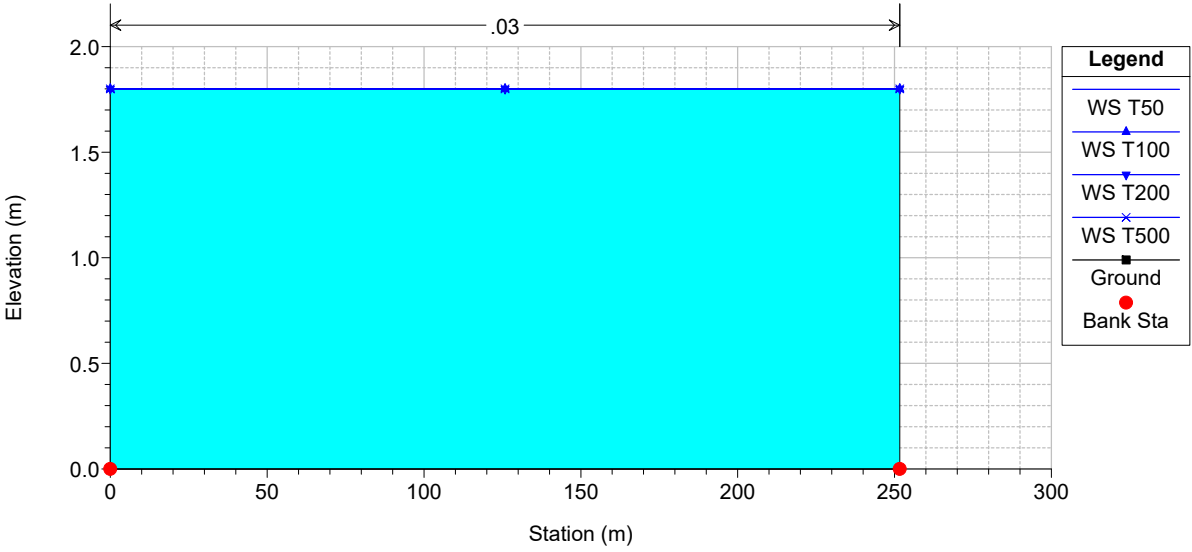












HEC-RAS Plan: Plan 01 River: Baratz Reach: RioBastianeddu

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
RioBastianeddu	5535.823	T50	58.42	45.60	49.75	47.43	49.75	0.000029	0.34	253.49	97.88	0.05
RioBastianeddu	5535.823	T100	70.40	45.60	49.86	47.49	49.86	0.000037	0.39	264.29	98.31	0.06
RioBastianeddu	5535.823	T200	82.62	45.60	49.97	47.56	49.97	0.000045	0.44	275.25	98.75	0.07
RioBastianeddu	5535.823	T500	99.24	45.60	50.09	47.62	50.10	0.000058	0.50	287.78	100.50	0.08
RioBastianeddu	5459.587	T50	58.42	44.42	49.75		49.75	0.000004	0.16	470.46	130.35	0.02
RioBastianeddu	5459.587	T100	70.40	44.42	49.86		49.86	0.000006	0.18	484.87	130.55	0.03
RioBastianeddu	5459.587	T200	82.62	44.42	49.97		49.97	0.000007	0.21	499.45	130.75	0.03
RioBastianeddu	5459.587	T500	99.24	44.42	50.10		50.10	0.000010	0.24	516.01	131.02	0.03
RioBastianeddu	5412.913	T50	58.42	43.84	49.75		49.75	0.000004	0.15	464.28	104.33	0.02
RioBastianeddu	5412.913	T100	70.40	43.84	49.86		49.86	0.000005	0.18	475.80	104.44	0.02
RioBastianeddu	5412.913	T200	82.62	43.84	49.97		49.97	0.000007	0.21	487.46	104.56	0.03
RioBastianeddu	5412.913	T500	99.24	43.84	50.10		50.10	0.000009	0.24	500.68	104.69	0.03
RioBastianeddu	5339.188	T50	58.42	42.81	49.75		49.75	0.000002	0.14	509.69	99.66	0.02
RioBastianeddu	5339.188	T100	70.40	42.81	49.86		49.86	0.000003	0.16	520.70	99.90	0.02
RioBastianeddu	5339.188	T200	82.62	42.81	49.97		49.97	0.000004	0.19	531.85	100.15	0.02
RioBastianeddu	5339.188	T500	99.24	42.81	50.10		50.10	0.000006	0.22	544.52	100.43	0.03
RioBastianeddu	5301.548	T50	58.42	42.47	49.75	44.43	49.75	0.000005	0.21	350.61	64.84	0.02
RioBastianeddu	5301.548	T100	70.40	42.47	49.86	44.49	49.86	0.000007	0.24	357.78	65.53	0.03
RioBastianeddu	5301.548	T200	82.62	42.47	49.97	44.56	49.97	0.000009	0.28	365.09	66.28	0.03
RioBastianeddu	5301.548	T500	99.24	42.47	50.09	44.64	50.10	0.000012	0.33	373.44	66.63	0.04
RioBastianeddu	5291.890		Culvert									
RioBastianeddu	5283.366	T50	58.42	41.62	49.63		49.63	0.000011	0.32	277.54	70.68	0.04
RioBastianeddu	5283.366	T100	70.40	41.62	49.73		49.73	0.000016	0.38	284.50	71.88	0.04
RioBastianeddu	5283.366	T200	82.62	41.62	49.83		49.84	0.000020	0.44	292.14	72.69	0.05
RioBastianeddu	5283.366	T500	99.24	41.62	49.94		49.95	0.000027	0.51	300.21	73.43	0.06
RioBastianeddu	5261.001	T50	58.42	41.46	49.63		49.63	0.000005	0.23	365.08	80.82	0.03
RioBastianeddu	5261.001	T100	70.40	41.46	49.73		49.73	0.000007	0.27	373.01	81.21	0.03
RioBastianeddu	5261.001	T200	82.62	41.46	49.83		49.83	0.000010	0.31	381.64	81.62	0.03
RioBastianeddu	5261.001	T500	99.24	41.46	49.94		49.95	0.000013	0.36	390.71	82.05	0.04
RioBastianeddu	5233.372	T50	58.42	41.47	49.63	43.45	49.63	0.000004	0.19	430.19	88.06	0.02
RioBastianeddu	5233.372	T100	70.40	41.47	49.73	43.52	49.73	0.000005	0.22	438.84	88.66	0.02
RioBastianeddu	5233.372	T200	82.62	41.47	49.83	43.65	49.83	0.000006	0.26	448.28	89.36	0.03
RioBastianeddu	5233.372	T500	99.24	41.47	49.94	43.75	49.95	0.000009	0.30	458.24	90.10	0.03
RioBastianeddu	5202.695		Culvert									
RioBastianeddu	5181.841	T50	58.42	40.62	41.95	41.95	42.21	0.014618	2.98	27.99	57.05	0.95
RioBastianeddu	5181.841	T100	70.40	40.62	42.02	42.02	42.30	0.014683	3.13	32.27	59.89	0.96
RioBastianeddu	5181.841	T200	82.62	40.62	42.10	42.10	42.39	0.013932	3.20	37.22	63.25	0.95
RioBastianeddu	5181.841	T500	99.24	40.62	42.19	42.19	42.50	0.013456	3.31	43.15	66.22	0.94
RioBastianeddu	5141.908	T50	58.42	39.39	41.00	41.15	41.50	0.019414	3.74	22.67	48.87	1.11
RioBastianeddu	5141.908	T100	70.40	39.39	41.07	41.27	41.61	0.019727	3.92	26.28	52.59	1.13
RioBastianeddu	5141.908	T200	82.62	39.39	41.16	41.32	41.70	0.018821	4.02	31.37	66.05	1.12
RioBastianeddu	5141.908	T500	99.24	39.39	41.23	41.41	41.81	0.019858	4.26	35.69	68.54	1.16
RioBastianeddu	5087.420	T50	76.24	38.77	40.48	40.49	40.74	0.009942	3.33	40.57	70.38	0.85
RioBastianeddu	5087.420	T100	92.55	38.77	40.57	40.57	40.84	0.009575	3.40	47.02	71.82	0.84
RioBastianeddu	5087.420	T200	109.18	38.77	40.67	40.62	40.93	0.008856	3.39	53.99	73.19	0.82
RioBastianeddu	5087.420	T500	131.55	38.77	40.80	40.71	41.06	0.007896	3.36	63.48	74.66	0.78
RioBastianeddu	4961.462	T50	76.24	37.54	39.81	39.34	39.90	0.004611	1.20	59.17	62.23	0.26
RioBastianeddu	4961.462	T100	92.55	37.54	39.97		40.07	0.004108	1.19	69.44	64.72	0.25
RioBastianeddu	4961.462	T200	109.18	37.54	40.12		40.23	0.003757	1.19	79.40	66.94	0.24
RioBastianeddu	4961.462	T500	131.55	37.54	40.31		40.43	0.003389	1.18	92.32	69.29	0.23
RioBastianeddu	4916.129	T50	76.24	37.20	39.65		39.73	0.003045	0.96	67.16	56.23	0.20
RioBastianeddu	4916.129	T100	92.55	37.20	39.83		39.91	0.002918	0.98	77.08	58.58	0.20
RioBastianeddu	4916.129	T200	109.18	37.20	39.98		40.08	0.002844	1.01	86.53	60.80	0.20
RioBastianeddu	4916.129	T500	131.55	37.20	40.18		40.29	0.002732	1.04	98.82	63.24	0.20
RioBastianeddu	4834.907	T50	76.24	36.81	39.28		39.46	0.003268	2.51	49.66	40.58	0.52
RioBastianeddu	4834.907	T100	92.55	36.81	39.45		39.64	0.003332	2.65	56.53	42.11	0.53
RioBastianeddu	4834.907	T200	109.18	36.81	39.60		39.81	0.003313	2.75	63.13	42.96	0.54
RioBastianeddu	4834.907	T500	131.55	36.81	39.80		40.02	0.003282	2.87	71.66	44.62	0.54
RioBastianeddu	4757.184	T50	76.24	36.11	38.90		39.01	0.010909	1.97	54.03	35.61	0.39
RioBastianeddu	4757.184	T100	92.55	36.11	39.03		39.17	0.012798	2.20	58.69	36.80	0.42
RioBastianeddu	4757.184	T200	109.18	36.11	39.16		39.33	0.014224	2.39	63.68	38.01	0.45
RioBastianeddu	4757.184	T500	131.55	36.11	39.34		39.53	0.015513	2.60	70.51	39.38	0.47
RioBastianeddu	4618.049	T50	76.24	34.91	36.99	36.99	37.48	0.010608	3.92	26.76	25.76	0.90
RioBastianeddu	4618.049	T100	92.55	34.91	37.22	37.14	37.69	0.008697	3.83	32.86	27.45	0.83
RioBastianeddu	4618.049	T200	109.18	34.91	37.43		37.89	0.007616	3.81	38.75	28.94	0.79
RioBastianeddu	4618.049	T500	131.55	34.91	37.68		38.14	0.006807	3.85	46.18	30.90	0.76
RioBastianeddu	4466.446	T50	76.24	33.60	36.58	35.63	36.75	0.002215	2.13	45.58	29.21	0.43
RioBastianeddu	4466.446	T100	92.55	33.60	36.81		37.00	0.002255	2.28	53.03	32.81	0.44
RioBastianeddu	4466.446	T200	109.18	33.60	37.02		37.23	0.002308	2.42	60.25	36.27	0.45

HEC-RAS Plan: Plan 01 River: Baratz Reach: RioBastianeddu (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
RioBastianeddu	4466.446	T500	131.55	33.60	37.30		37.52	0.002257	2.54	70.67	40.31	0.45
RioBastianeddu	4344.263	T50	76.24	32.56	36.60		36.63	0.000290	0.96	102.86	46.38	0.16
RioBastianeddu	4344.263	T100	92.55	32.56	36.84		36.88	0.000322	1.06	114.27	48.76	0.17
RioBastianeddu	4344.263	T200	109.18	32.56	37.05		37.09	0.000352	1.15	124.81	50.64	0.18
RioBastianeddu	4344.263	T500	131.55	32.56	37.32		37.38	0.000382	1.25	139.01	53.18	0.19
RioBastianeddu	4212.669	T50	76.24	31.35	36.57		36.58	0.000404	0.39	267.98	90.02	0.06
RioBastianeddu	4212.669	T100	92.55	31.35	36.81		36.81	0.000481	0.44	289.52	92.87	0.06
RioBastianeddu	4212.669	T200	109.18	31.35	37.02		37.02	0.000561	0.49	309.19	95.82	0.07
RioBastianeddu	4212.669	T500	131.55	31.35	37.29		37.30	0.000648	0.54	335.64	98.80	0.07
RioBastianeddu	4095.931	T50	76.24	30.32	36.53		36.53	0.000368	0.41	273.52	90.57	0.05
RioBastianeddu	4095.931	T100	92.55	30.32	36.75		36.76	0.000442	0.46	294.40	92.81	0.06
RioBastianeddu	4095.931	T200	109.18	30.32	36.95		36.96	0.000527	0.51	313.26	96.69	0.07
RioBastianeddu	4095.931	T500	131.55	30.32	37.21		37.22	0.000612	0.57	338.86	99.00	0.07
RioBastianeddu	3962.303	T50	76.24	29.40	36.52		36.52	0.000025	0.12	683.25	118.99	0.01
RioBastianeddu	3962.303	T100	92.55	29.40	36.75		36.75	0.000032	0.14	710.27	120.60	0.02
RioBastianeddu	3962.303	T200	109.18	29.40	36.94		36.95	0.000041	0.16	734.17	121.96	0.02
RioBastianeddu	3962.303	T500	131.55	29.40	37.20		37.20	0.000053	0.19	765.98	124.52	0.02
RioBastianeddu	3769.153	T50	76.24	27.38	36.52		36.52	0.000001	0.09	1079.08	193.11	0.01
RioBastianeddu	3769.153	T100	92.55	27.38	36.75		36.75	0.000002	0.11	1122.85	195.51	0.01
RioBastianeddu	3769.153	T200	109.18	27.38	36.94		36.94	0.000002	0.12	1161.63	198.26	0.01
RioBastianeddu	3769.153	T500	131.55	27.38	37.20		37.20	0.000003	0.14	1213.21	201.14	0.02
RioBastianeddu	3614.475	T50	76.24	25.97	36.52		36.52	0.000002	0.13	802.90	139.14	0.01
RioBastianeddu	3614.475	T100	92.55	25.97	36.75		36.75	0.000003	0.15	834.67	142.37	0.01
RioBastianeddu	3614.475	T200	109.18	25.97	36.94		36.94	0.000003	0.17	862.75	143.13	0.02
RioBastianeddu	3614.475	T500	131.55	25.97	37.20		37.20	0.000004	0.20	899.92	145.82	0.02
RioBastianeddu	3541.623	T50	76.24	24.50	36.52	25.37	36.52	0.000001	0.10	846.43	99.95	0.01
RioBastianeddu	3541.623	T100	92.55	24.50	36.75	25.48	36.75	0.000001	0.12	869.01	100.48	0.01
RioBastianeddu	3541.623	T200	109.18	24.50	36.94	25.58	36.94	0.000002	0.14	888.81	100.90	0.01
RioBastianeddu	3541.623	T500	131.55	24.50	37.20	25.70	37.20	0.000003	0.17	914.91	101.45	0.02
RioBastianeddu	3372.575	T50	76.24	22.87	36.52		36.52	0.000000	0.04	2765.81	371.82	0.00
RioBastianeddu	3372.575	T100	92.55	22.87	36.75		36.75	0.000000	0.04	2850.20	376.05	0.00
RioBastianeddu	3372.575	T200	109.18	22.87	36.94		36.94	0.000000	0.05	2924.86	383.01	0.00
RioBastianeddu	3372.575	T500	131.55	22.87	37.20		37.20	0.000000	0.06	3024.67	390.21	0.00
RioBastianeddu	3294.822	T50	76.24	22.75	36.52		36.52	0.000000	0.03	5353.65	807.75	0.00
RioBastianeddu	3294.822	T100	92.55	22.75	36.75		36.75	0.000000	0.03	5538.64	831.06	0.00
RioBastianeddu	3294.822	T200	109.18	22.75	36.94		36.94	0.000000	0.04	5703.76	849.76	0.00
RioBastianeddu	3294.822	T500	131.55	22.75	37.20		37.20	0.000000	0.05	5926.37	879.61	0.00
RioBastianeddu	3220.625	T50	76.24	21.13	36.52		36.52	0.000000	0.01	8256.98	817.57	0.00
RioBastianeddu	3220.625	T100	92.55	21.13	36.75		36.75	0.000000	0.02	8443.05	836.83	0.00
RioBastianeddu	3220.625	T200	109.18	21.13	36.94		36.94	0.000000	0.02	8609.46	854.38	0.00
RioBastianeddu	3220.625	T500	131.55	21.13	37.20		37.20	0.000000	0.02	8833.32	885.03	0.00
RioBastianeddu	3024.668	T50	76.24	20.19	36.52		36.52	0.000000	0.01	13184.24	951.07	0.00
RioBastianeddu	3024.668	T100	92.55	20.19	36.75		36.75	0.000000	0.01	13399.42	956.58	0.00
RioBastianeddu	3024.668	T200	109.18	20.19	36.94		36.94	0.000000	0.01	13588.07	961.07	0.00
RioBastianeddu	3024.668	T500	131.55	20.19	37.20		37.20	0.000000	0.01	13836.89	966.32	0.00
RioBastianeddu	2699.448	T50	76.24	20.13	36.52		36.52	0.000000	0.01	9689.02	789.71	0.00
RioBastianeddu	2699.448	T100	92.55	20.13	36.75		36.75	0.000000	0.01	9867.60	794.30	0.00
RioBastianeddu	2699.448	T200	109.18	20.13	36.94		36.94	0.000000	0.01	10024.24	797.66	0.00
RioBastianeddu	2699.448	T500	131.55	20.13	37.20		37.20	0.000000	0.02	10231.00	803.95	0.00
RioBastianeddu	2489.094	T50	89.15	29.92	36.52		36.52	0.000060	0.17	560.10	192.21	0.02
RioBastianeddu	2489.094	T100	107.29	29.92	36.74		36.75	0.000068	0.18	603.83	196.60	0.02
RioBastianeddu	2489.094	T200	125.70	29.92	36.94		36.94	0.000077	0.20	642.91	201.43	0.03
RioBastianeddu	2489.094	T500	150.35	29.92	37.20		37.20	0.000086	0.22	695.38	205.67	0.03
RioBastianeddu	2297.835	T50	89.15	33.25	36.44	34.88	36.48	0.006298	0.94	104.54	60.41	0.19
RioBastianeddu	2297.835	T100	107.29	33.25	36.65	35.01	36.70	0.006597	1.02	117.87	64.56	0.20
RioBastianeddu	2297.835	T200	125.70	33.25	36.83	35.12	36.89	0.006912	1.09	129.91	66.38	0.21
RioBastianeddu	2297.835	T500	150.35	33.25	37.08	35.27	37.14	0.007139	1.17	146.93	71.43	0.22
RioBastianeddu	2146.775	T50	89.15	32.38	33.35	33.35	33.69	0.204211	2.68	35.94	55.21	0.93
RioBastianeddu	2146.775	T100	107.29	32.38	33.45	33.45	33.82	0.193090	2.82	41.73	58.19	0.93
RioBastianeddu	2146.775	T200	125.70	32.38	33.56	33.56	33.95	0.173679	2.88	48.57	62.68	0.89
RioBastianeddu	2146.775	T500	150.35	32.38	33.65	33.65	34.10	0.180459	3.10	54.47	65.71	0.93
RioBastianeddu	2010.717	T50	89.15	27.28	31.21	28.36	31.22	0.000485	0.34	317.91	145.69	0.06
RioBastianeddu	2010.717	T100	107.29	27.28	31.37	28.45	31.38	0.000575	0.38	341.58	149.95	0.06
RioBastianeddu	2010.717	T200	125.70	27.28	31.52	28.53	31.53	0.000664	0.42	363.92	153.66	0.07
RioBastianeddu	2010.717	T500	150.35	27.28	31.69	28.64	31.70	0.000777	0.46	391.06	157.84	0.07
RioBastianeddu	1850.074	T50	89.15	29.31	30.99		31.01	0.008680	0.86	137.02	136.04	0.22
RioBastianeddu	1850.074	T100	107.29	29.31	31.11		31.14	0.008739	0.91	154.77	139.41	0.22
RioBastianeddu	1850.074	T200	125.70	29.31	31.23		31.26	0.008869	0.96	171.10	142.01	0.22
RioBastianeddu	1850.074	T500	150.35	29.31	31.37		31.40	0.009198	1.02	190.38	144.99	0.23

HEC-RAS Plan: Plan 01 River: Baratz Reach: RioBastianeddu (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
RioBastianeddu	1745.703	T50	89.15	27.11	28.19	28.19	28.51	0.190973	3.00	37.23	57.83	0.94
RioBastianeddu	1745.703	T100	107.29	27.11	28.28	28.28	28.63	0.187579	3.15	43.00	62.52	0.94
RioBastianeddu	1745.703	T200	125.70	27.11	28.38	28.38	28.75	0.178750	3.25	49.29	67.00	0.93
RioBastianeddu	1745.703	T500	150.35	27.11	28.53	28.47	28.88	0.154082	3.25	59.79	74.66	0.88
RioBastianeddu	1646.461	T50	89.15	25.23	27.56	25.86	27.57	0.001714	0.48	221.60	148.01	0.10
RioBastianeddu	1646.461	T100	107.29	25.23	27.74	25.94	27.75	0.001837	0.52	249.99	163.63	0.11
RioBastianeddu	1646.461	T200	125.70	25.23	27.90	26.01	27.91	0.001970	0.56	277.79	183.23	0.11
RioBastianeddu	1646.461	T500	150.35	25.23	28.09		28.11	0.002109	0.61	315.94	211.42	0.12
RioBastianeddu	1553.666	T50	89.15	24.38	27.43		27.44	0.001126	0.42	252.94	148.32	0.08
RioBastianeddu	1553.666	T100	107.29	24.38	27.60		27.61	0.001257	0.46	278.71	155.75	0.09
RioBastianeddu	1553.666	T200	125.70	24.38	27.75		27.76	0.001381	0.50	302.47	161.18	0.09
RioBastianeddu	1553.666	T500	150.35	24.38	27.93		27.94	0.001545	0.55	331.69	168.83	0.10
RioBastianeddu	1444.001	T50	89.15	24.98	27.22		27.23	0.003889	0.70	184.36	155.14	0.15
RioBastianeddu	1444.001	T100	107.29	24.98	27.37		27.38	0.004045	0.75	208.65	164.40	0.16
RioBastianeddu	1444.001	T200	125.70	24.98	27.50		27.52	0.004162	0.79	231.05	171.37	0.16
RioBastianeddu	1444.001	T500	150.35	24.98	27.66		27.68	0.004248	0.83	258.53	178.58	0.16
RioBastianeddu	1333.061	T50	89.15	24.55	25.60	25.60	25.91	0.194974	2.89	39.82	67.05	0.94
RioBastianeddu	1333.061	T100	107.29	24.55	25.70	25.70	26.02	0.182448	2.99	46.87	72.35	0.92
RioBastianeddu	1333.061	T200	125.70	24.55	25.79	25.79	26.13	0.179016	3.11	53.15	76.71	0.92
RioBastianeddu	1333.061	T500	150.35	24.55	25.88	25.88	26.26	0.181052	3.30	60.64	82.36	0.94
RioBastianeddu	1227.876	T50	89.15	19.78	21.61	20.38	21.63	0.003613	0.58	167.27	120.49	0.14
RioBastianeddu	1227.876	T100	107.29	19.78	21.77	20.45	21.79	0.003794	0.63	186.66	124.94	0.15
RioBastianeddu	1227.876	T200	125.70	19.78	21.91	20.52	21.94	0.003947	0.67	205.33	129.20	0.15
RioBastianeddu	1227.876	T500	150.35	19.78	22.09	20.60	22.12	0.004107	0.72	228.84	132.94	0.16
RioBastianeddu	1074.808	T50	89.15	18.93	20.46		20.51	0.021863	1.25	92.04	100.62	0.33
RioBastianeddu	1074.808	T100	107.29	18.93	20.61		20.66	0.020162	1.28	107.18	104.02	0.33
RioBastianeddu	1074.808	T200	125.70	18.93	20.74		20.80	0.018999	1.31	121.33	106.12	0.32
RioBastianeddu	1074.808	T500	150.35	18.93	20.91		20.97	0.017915	1.36	139.58	109.66	0.32
RioBastianeddu	890.9847	T50	89.15	15.37	17.77		17.82	0.010468	1.12	96.86	72.15	0.25
RioBastianeddu	890.9847	T100	107.29	15.37	17.94		18.00	0.010851	1.21	109.97	76.91	0.25
RioBastianeddu	890.9847	T200	125.70	15.37	18.11		18.17	0.011113	1.28	122.84	81.13	0.26
RioBastianeddu	890.9847	T500	150.35	15.37	18.30		18.38	0.011401	1.36	139.15	85.79	0.27
RioBastianeddu	718.6132	T50	89.15	14.13	15.97		16.00	0.010507	1.01	111.38	95.48	0.24
RioBastianeddu	718.6132	T100	107.29	14.13	16.13		16.17	0.010338	1.06	127.00	99.36	0.24
RioBastianeddu	718.6132	T200	125.70	14.13	16.28		16.32	0.010284	1.11	142.12	103.66	0.24
RioBastianeddu	718.6132	T500	150.35	14.13	16.45		16.50	0.010248	1.17	160.67	107.31	0.25
RioBastianeddu	583.6754	T50	89.15	12.44	14.56		14.60	0.010515	1.07	110.06	101.74	0.24
RioBastianeddu	583.6754	T100	107.29	12.44	14.70		14.74	0.010918	1.15	125.30	109.27	0.25
RioBastianeddu	583.6754	T200	125.70	12.44	14.82		14.87	0.011402	1.21	138.81	113.98	0.26
RioBastianeddu	583.6754	T500	150.35	12.44	14.97		15.02	0.011935	1.30	155.66	118.24	0.27
RioBastianeddu	458.3911	T50	89.15	10.87	12.66		12.72	0.022730	1.42	97.60	133.64	0.35
RioBastianeddu	458.3911	T100	107.29	10.87	12.77		12.83	0.022434	1.47	113.13	141.46	0.35
RioBastianeddu	458.3911	T200	125.70	10.87	12.89		12.95	0.021272	1.50	130.23	149.41	0.35
RioBastianeddu	458.3911	T500	150.35	10.87	13.03		13.10	0.020011	1.53	153.21	161.34	0.34
RioBastianeddu	368.2109	T50	89.15	9.82	11.42	10.59	11.45	0.009597	0.88	125.05	114.94	0.22
RioBastianeddu	368.2109	T100	107.29	9.82	11.60	10.67	11.63	0.008847	0.91	146.38	121.30	0.22
RioBastianeddu	368.2109	T200	125.70	9.82	11.74	10.73	11.78	0.008865	0.96	163.63	126.63	0.22
RioBastianeddu	368.2109	T500	150.35	9.82	11.90	10.82	11.94	0.009068	1.02	184.13	132.31	0.23
RioBastianeddu	216.1469	T50	89.15	7.00	8.16		8.40	0.062948	2.71	45.00	66.98	0.82
RioBastianeddu	216.1469	T100	107.29	7.00	8.18	8.16	8.51	0.086006	3.20	45.99	67.59	0.96
RioBastianeddu	216.1469	T200	125.70	7.00	8.26	8.26	8.62	0.088430	3.39	51.40	71.51	0.98
RioBastianeddu	216.1469	T500	150.35	7.00	8.37	8.37	8.76	0.085560	3.53	59.62	76.13	0.98
RioBastianeddu	132.4285	T50	89.15	4.16	8.29		8.29	0.000116	0.27	482.97	227.28	0.04
RioBastianeddu	132.4285	T100	107.29	4.16	8.36		8.36	0.000154	0.32	498.49	230.91	0.05
RioBastianeddu	132.4285	T200	125.70	4.16	8.43	5.29	8.43	0.000195	0.36	513.55	233.77	0.06
RioBastianeddu	132.4285	T500	150.35	4.16	8.51	5.42	8.51	0.000253	0.41	532.61	236.73	0.06
RioBastianeddu	62.57008	T50	89.15	7.45	8.10	8.10	8.25	0.011908	2.72	57.75	169.55	1.08
RioBastianeddu	62.57008	T100	107.29	7.45	8.14	8.14	8.31	0.012417	2.89	64.53	171.64	1.11
RioBastianeddu	62.57008	T200	125.70	7.45	8.18	8.18	8.37	0.012862	3.05	71.01	175.88	1.14
RioBastianeddu	62.57008	T500	150.35	7.45	8.23	8.23	8.44	0.012858	3.19	80.22	179.90	1.16
RioBastianeddu	8.515577	T50	89.15	0.00	1.80	0.23	1.80	0.000016	0.20	453.06	251.68	0.05
RioBastianeddu	8.515577	T100	107.29	0.00	1.80	0.26	1.80	0.000023	0.24	453.06	251.68	0.06
RioBastianeddu	8.515577	T200	125.70	0.00	1.80	0.29	1.80	0.000032	0.28	453.06	251.68	0.07
RioBastianeddu	8.515577	T500	150.35	0.00	1.80	0.33	1.81	0.000046	0.33	453.06	251.68	0.08