

**STUDIO IDROLOGICO IDRAULICO
ALLEGATO OUTPUT SW HEC-RAS**

Studio Schiatti - Via Puccini 150 – 52100 Arezzo

Ing. Carlo Schiatti

Collaboratore

Ing. Silvia Cecconi

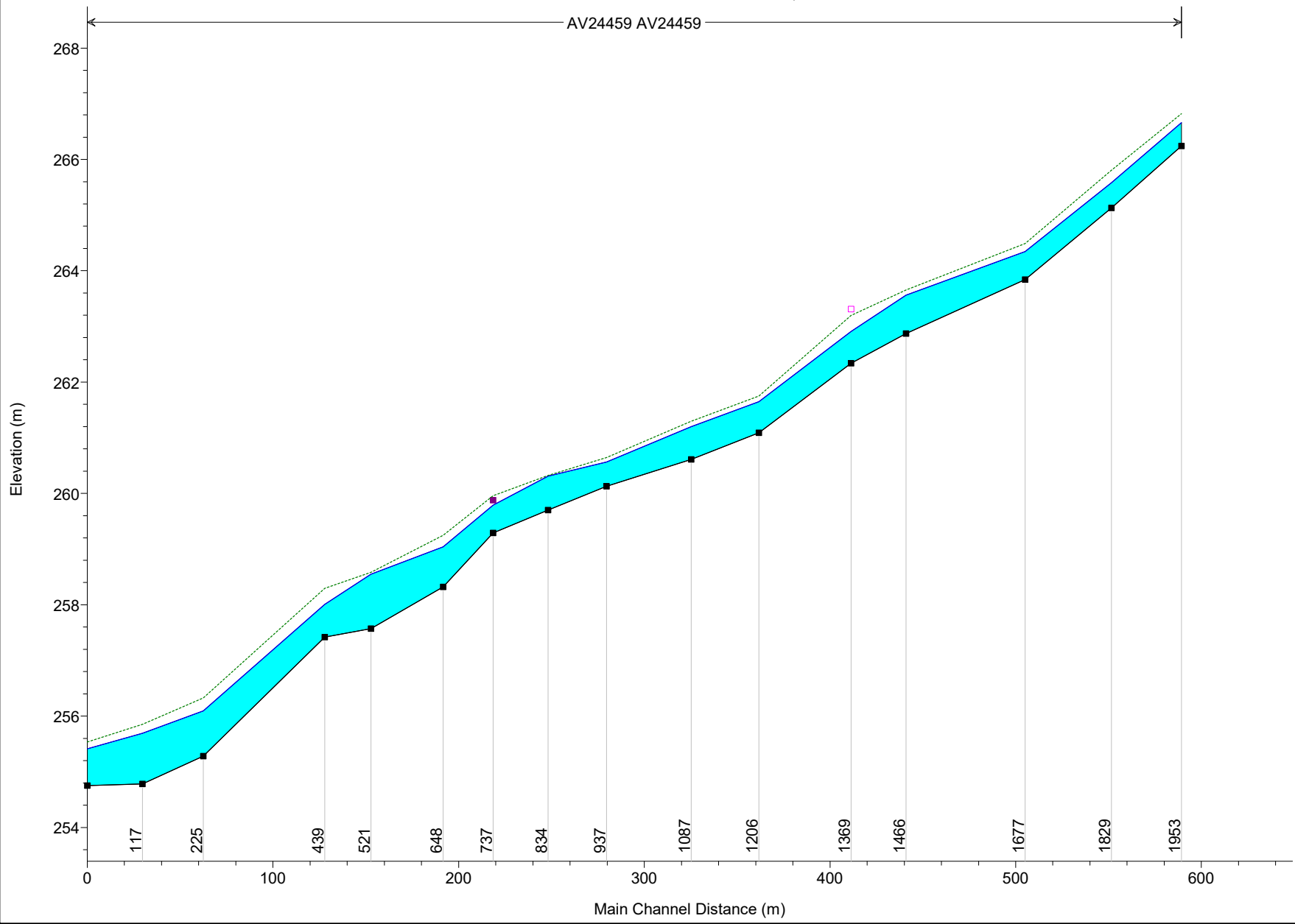
Aprile 2021

OUTPUT HEC-RAS
TR30

FOSSO AV24459

AV24459 Plan: Q30

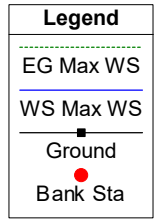
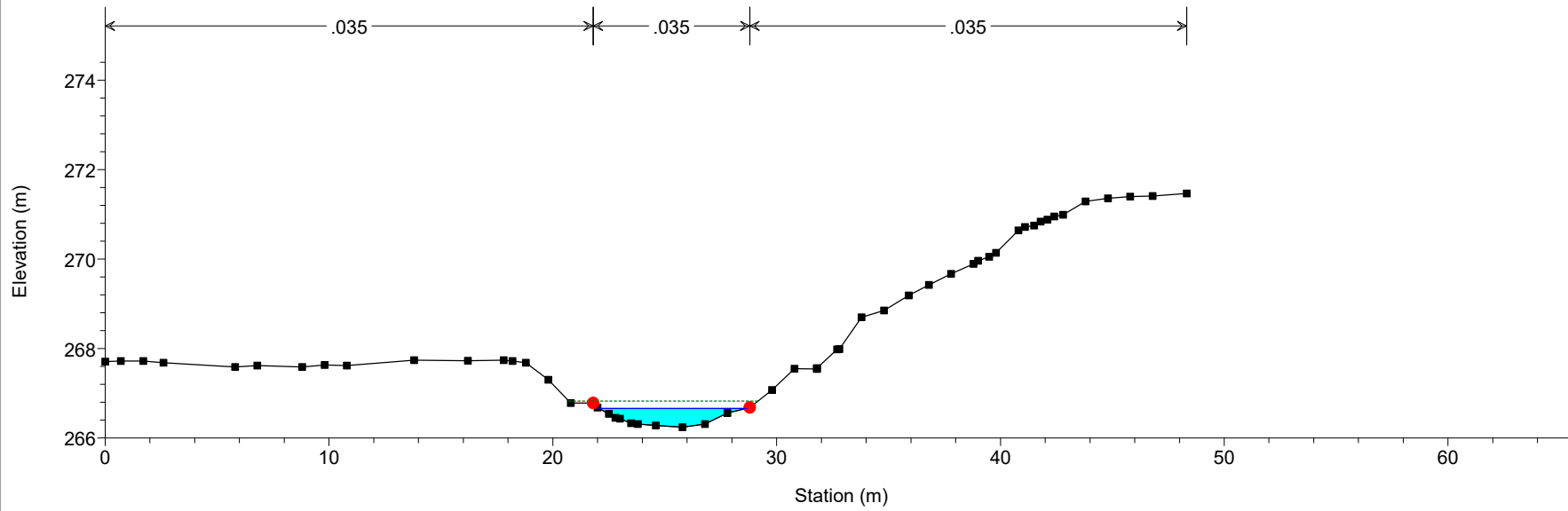
AV24459 AV24459



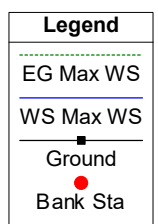
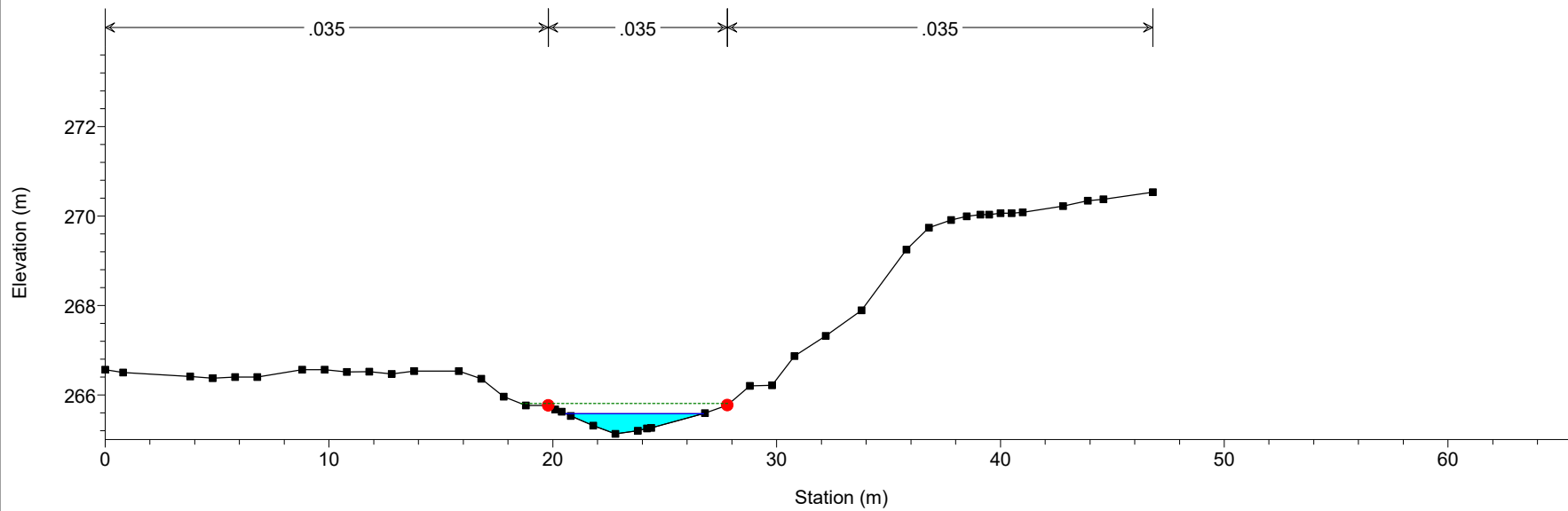
Legend	
EG Max WS	(Green dashed line)
WS Max WS	(Blue solid line)
Ground	(Black solid line)
Left Levee	(Pink square marker)
Right Levee	(Purple square marker)

1 cm Horiz. = 30 m 1 cm Vert. = 1 m

AV24459 Plan: Q30

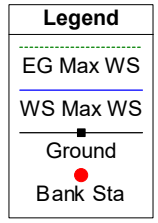
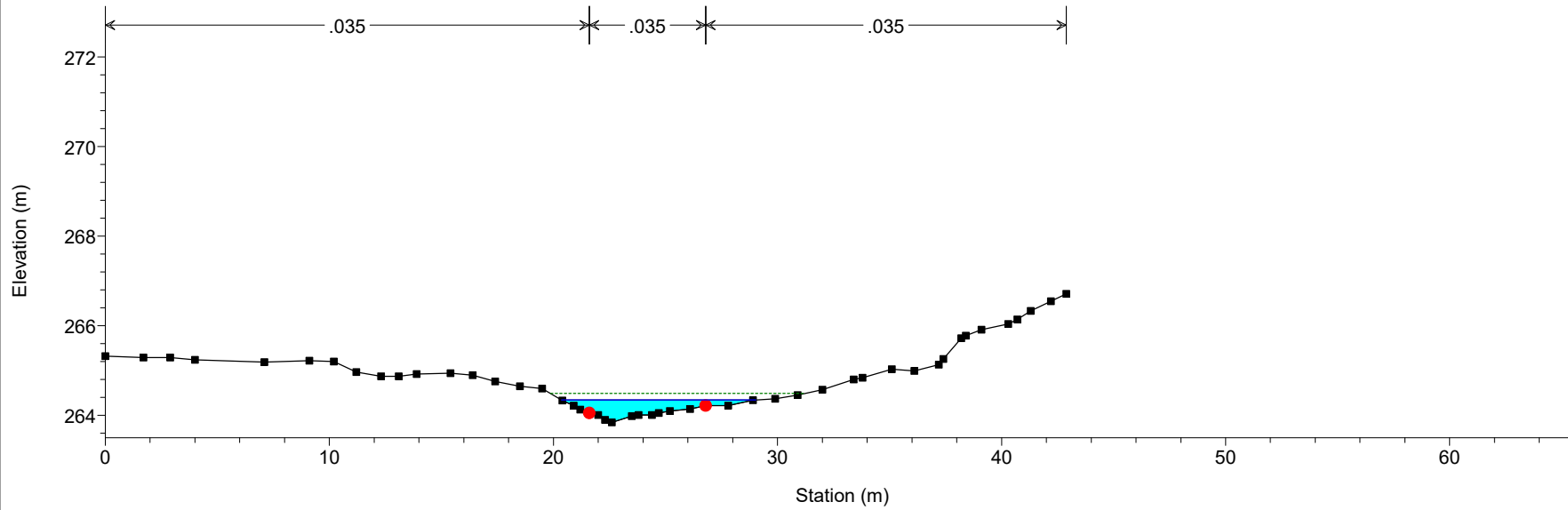


AV24459 Plan: Q30

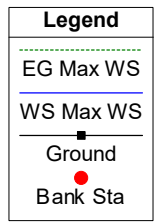
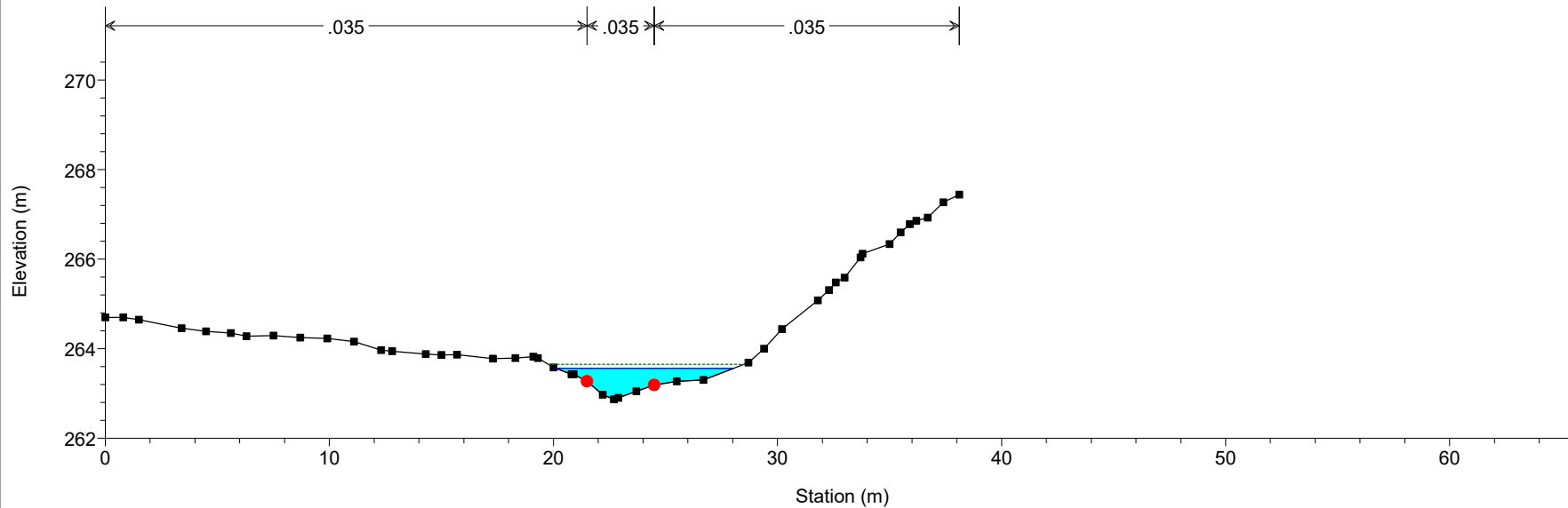


1 cm Horiz. = 3 m 1 cm Vert. = 1.5 m

AV24459 Plan: Q30

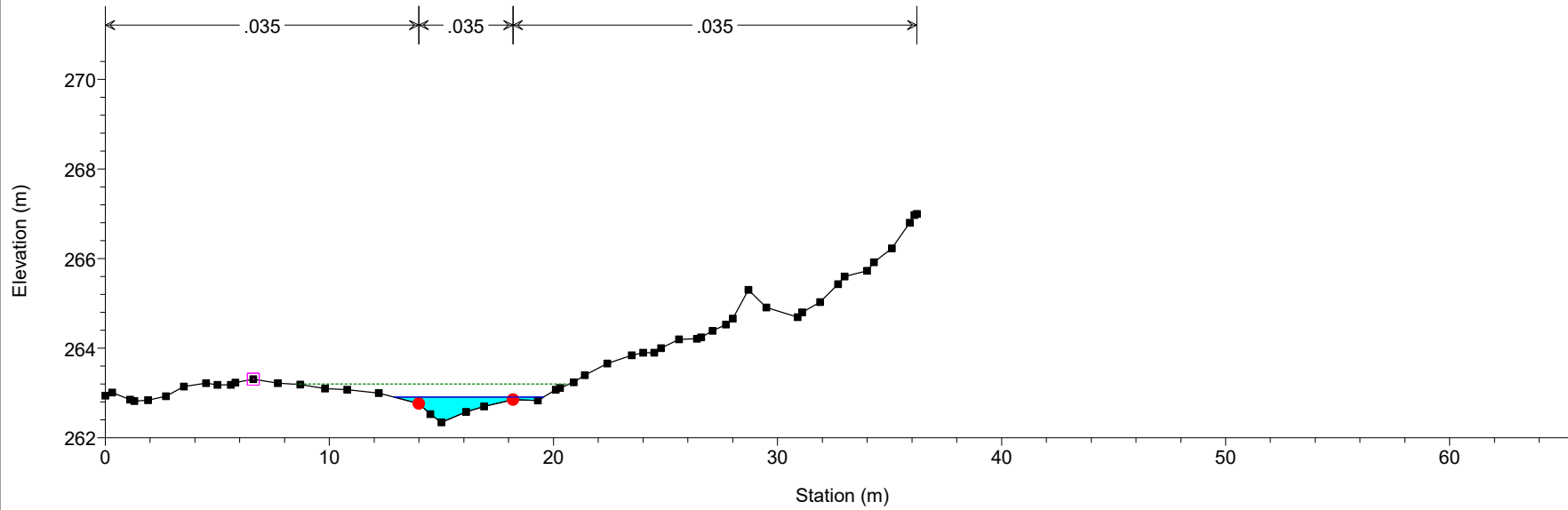


AV24459 Plan: Q30

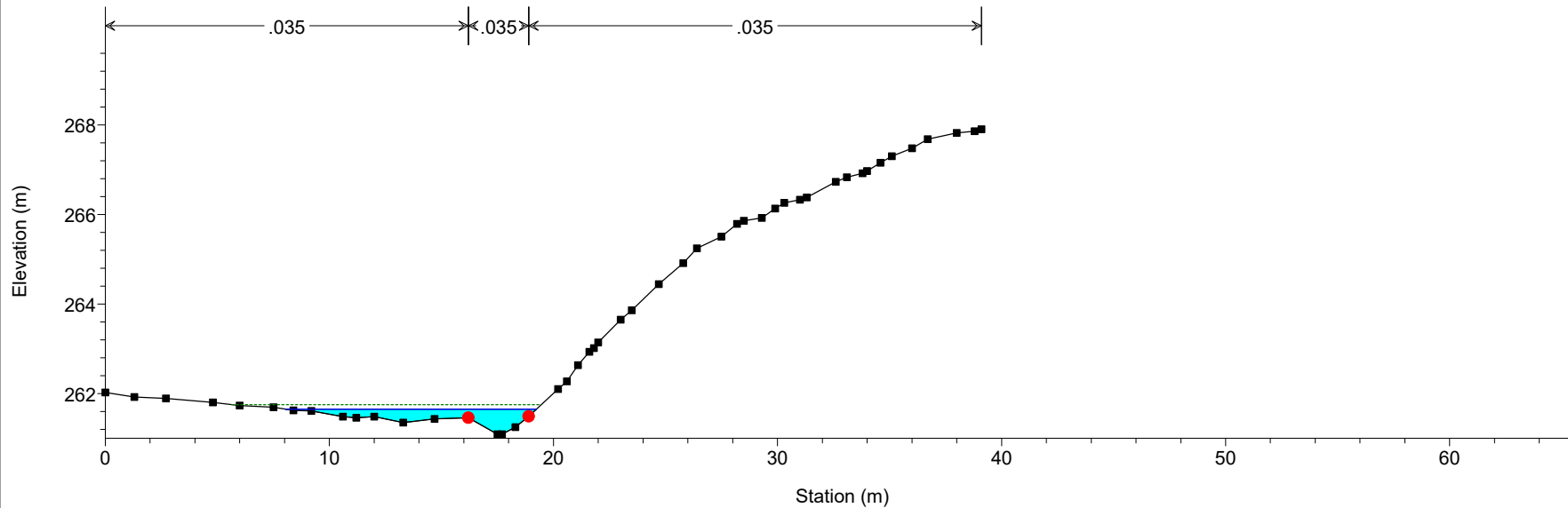


1 cm Horiz. = 3 m 1 cm Vert. = 1.5 m

AV24459 Plan: Q30

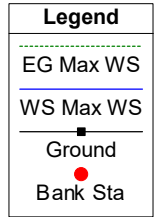
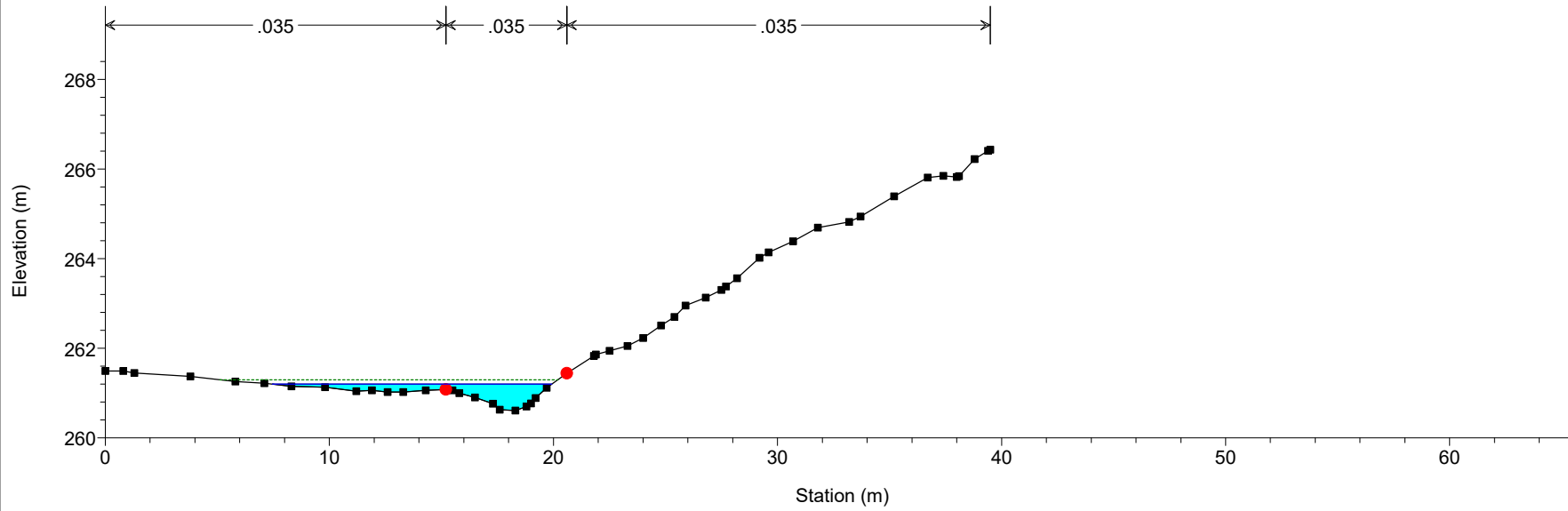


AV24459 Plan: Q30

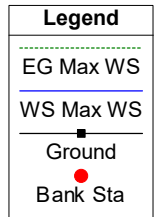
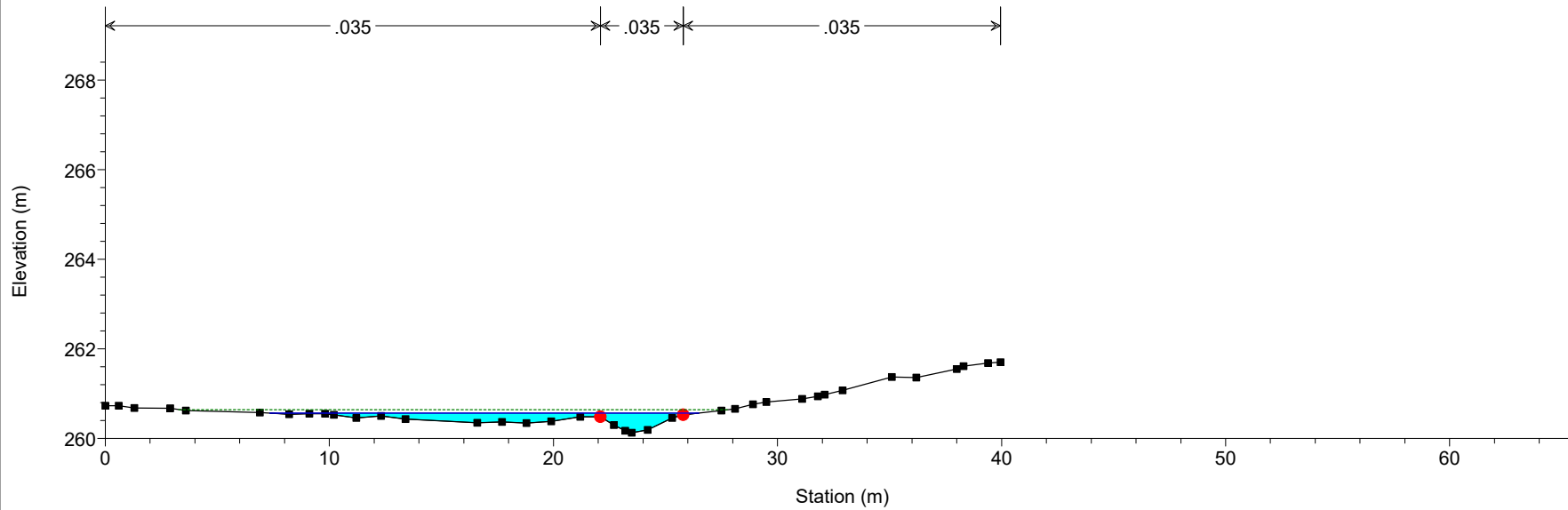


1 cm Horiz. = 3 m 1 cm Vert. = 1.5 m

AV24459 Plan: Q30

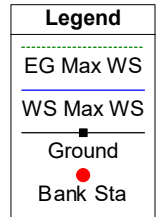
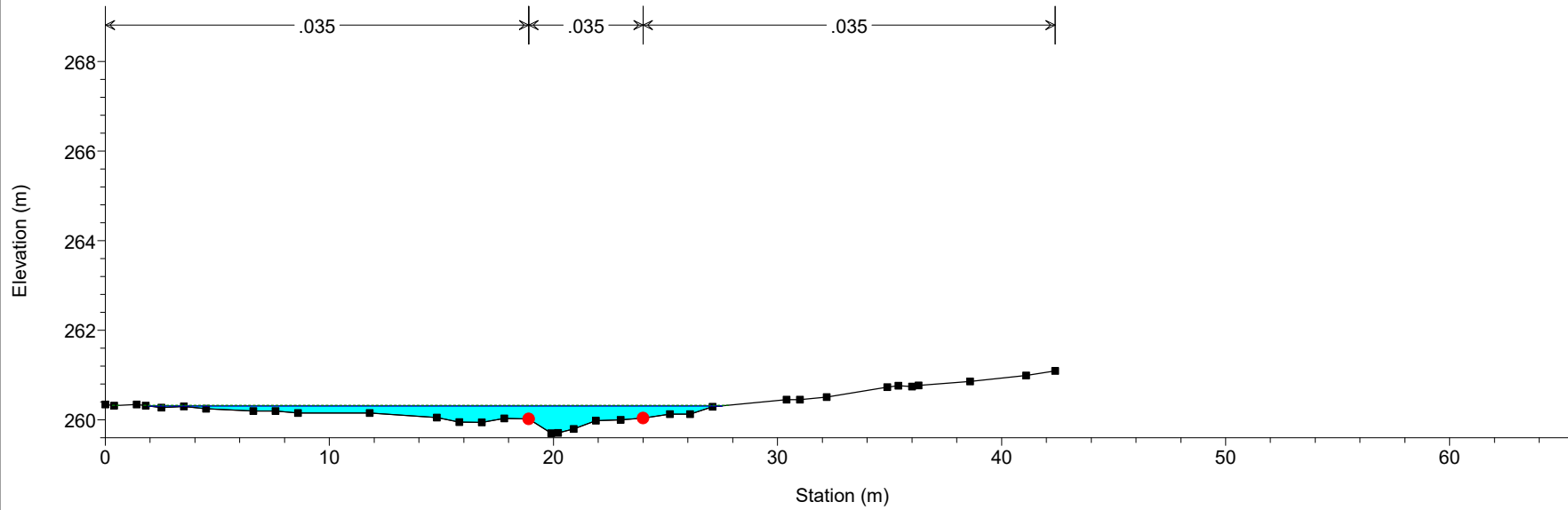


AV24459 Plan: Q30

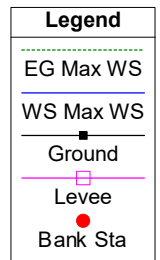
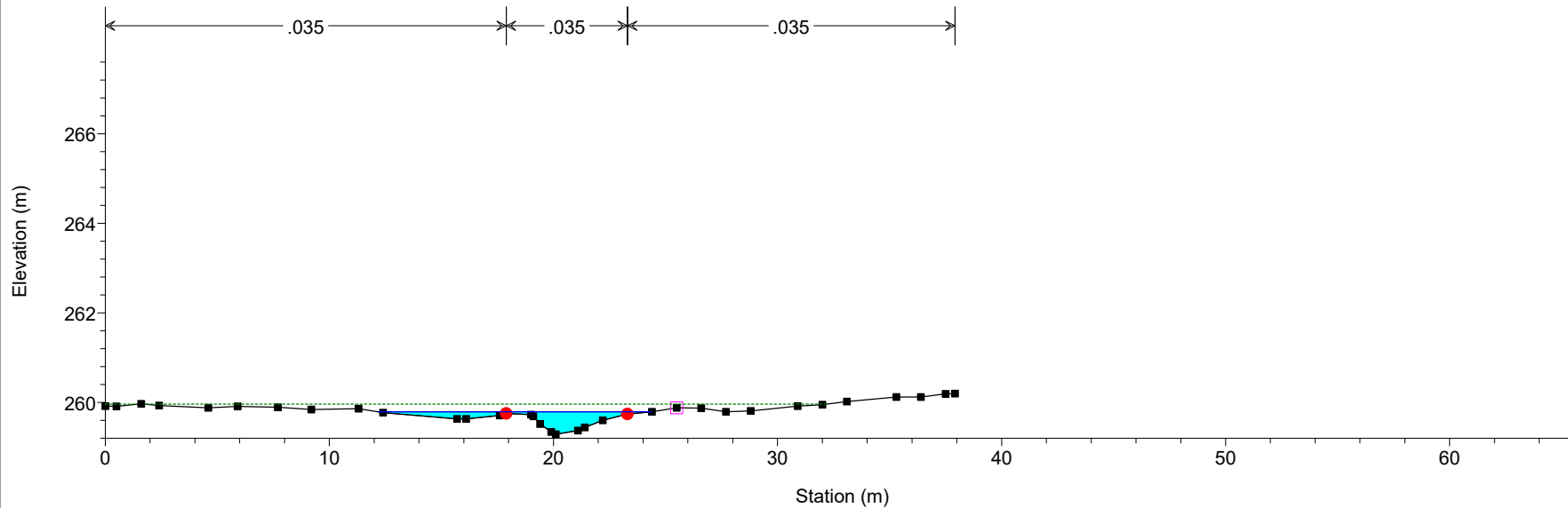


1 cm Horiz. = 3 m 1 cm Vert. = 1.5 m

AV24459 Plan: Q30

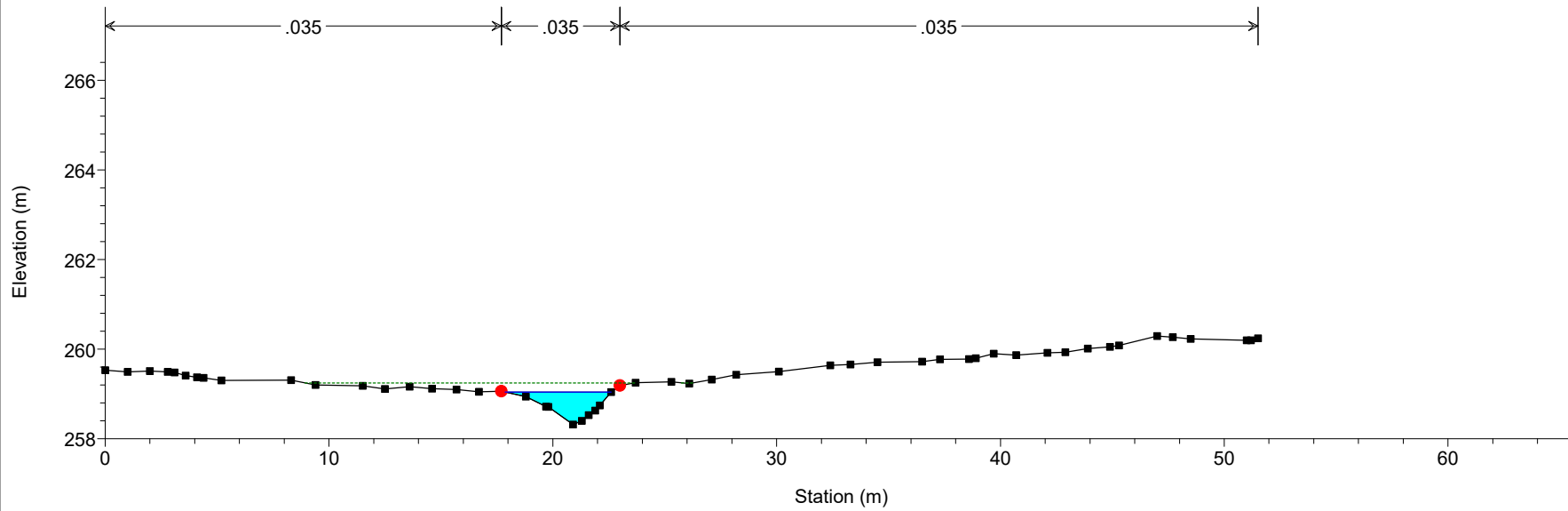


AV24459 Plan: Q30

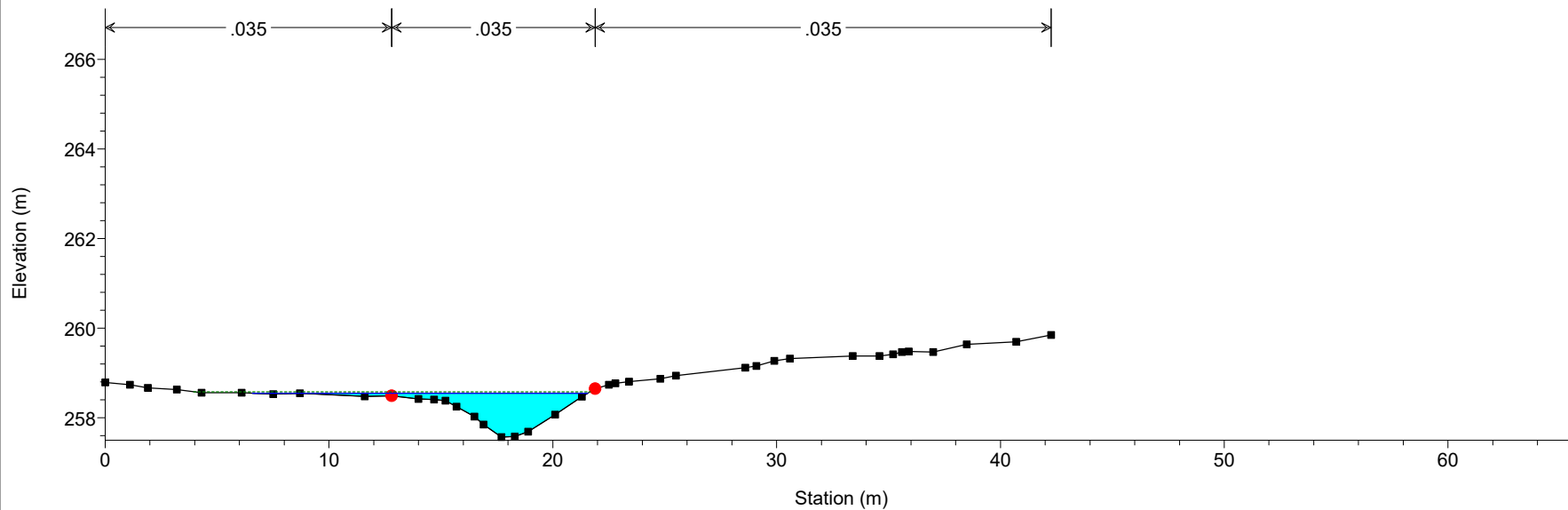


1 cm Horiz. = 3 m 1 cm Vert. = 1.5 m

AV24459 Plan: Q30

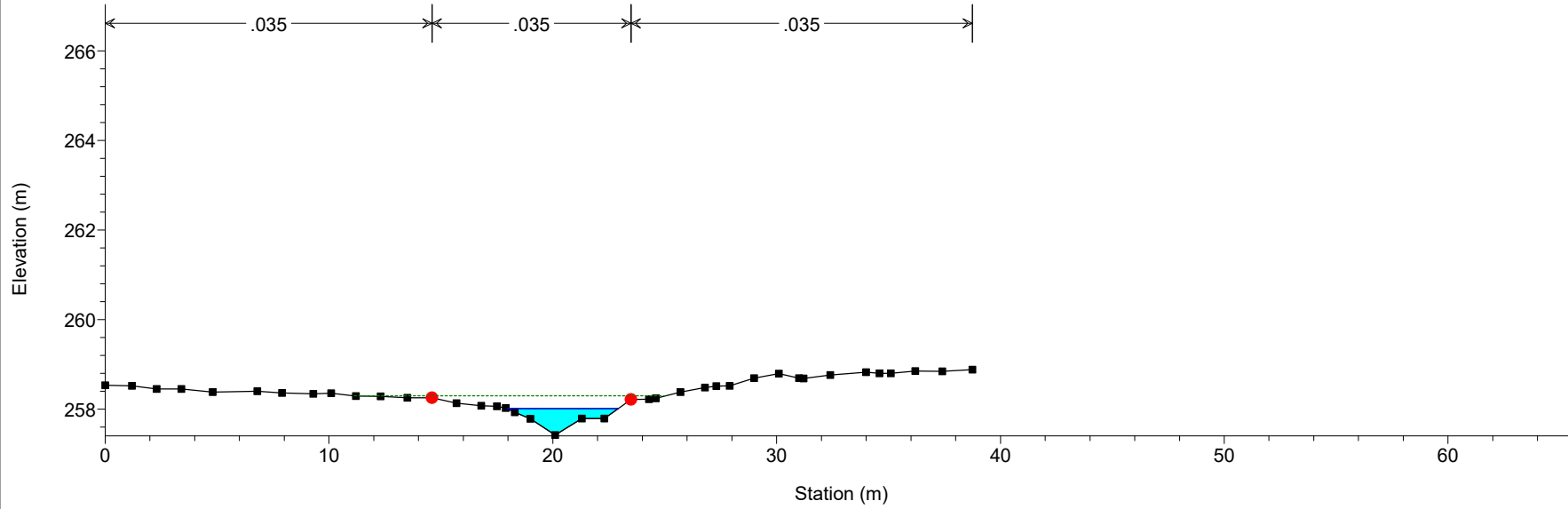


AV24459 Plan: Q30

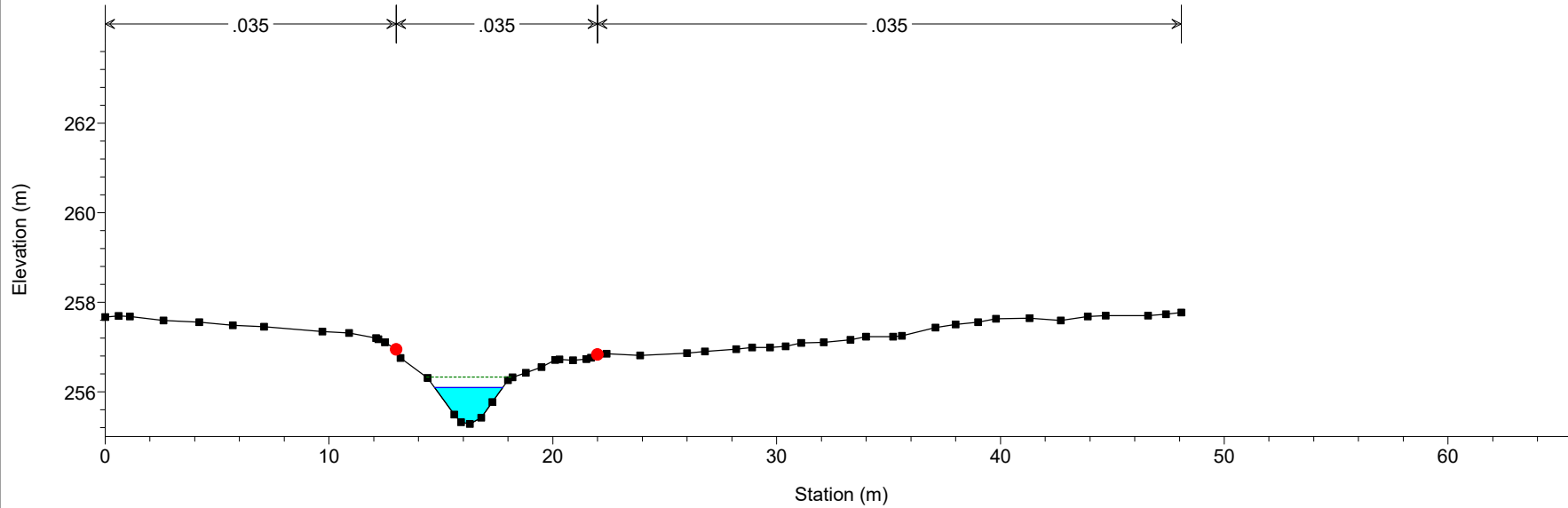


1 cm Horiz. = 3 m 1 cm Vert. = 1.5 m

AV24459 Plan: Q30

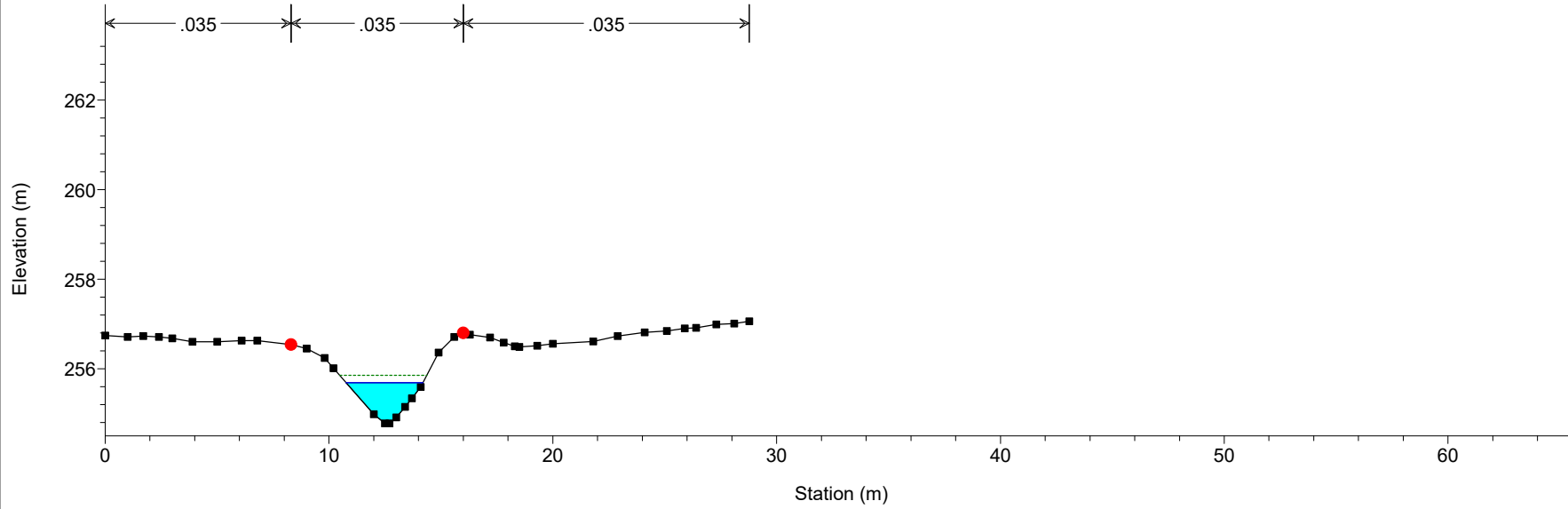


AV24459 Plan: Q30

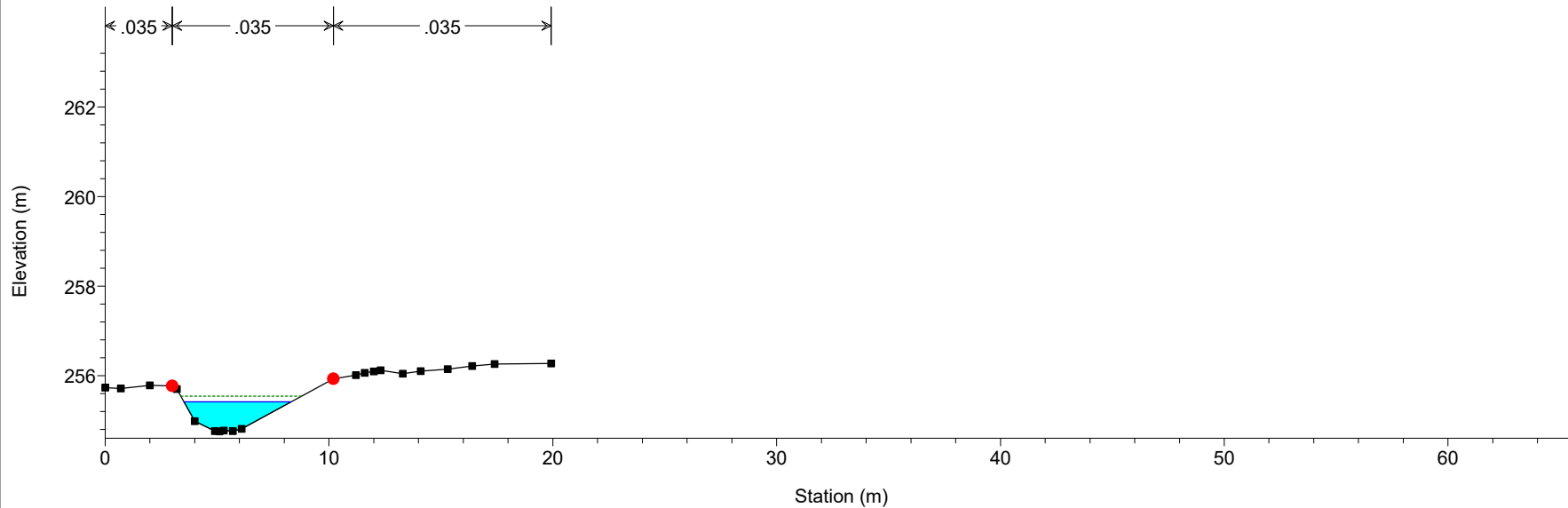


1 cm Horiz. = 3 m 1 cm Vert. = 1.5 m

AV24459 Plan: Q30



AV24459 Plan: Q30



1 cm Horiz. = 3 m 1 cm Vert. = 1.5 m

HEC-RAS Plan: Q30 River: AV24459 Reach: AV24459 Profile: Max WS

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
AV24459	1953	Max WS	3.20	266.24	266.66	266.68	266.82	0.022227	1.78	1.80	6.59	1.09
AV24459	1829	Max WS	3.20	265.13	265.58	265.64	265.81	0.035386	2.10	1.52	6.16	1.35
AV24459	1677	Max WS	3.20	263.84	264.34	264.36	264.49	0.018031	1.76	2.01	8.68	1.00
AV24459	1466	Max WS	3.19	262.87	263.56		263.65	0.006418	1.47	2.63	7.96	0.64
AV24459	1369	Max WS	3.19	262.34	262.91	263.00	263.20	0.038141	2.43	1.41	6.67	1.43
AV24459	1206	Max WS	3.18	261.09	261.65	261.65	261.75	0.012944	1.68	2.47	11.20	0.86
AV24459	1087	Max WS	3.18	260.61	261.20	261.20	261.30	0.011994	1.52	2.54	12.46	0.82
AV24459	937	Max WS	3.17	260.13	260.57	260.57	260.64	0.016731	1.50	2.83	19.15	0.93
AV24459	834	Max WS	2.50	259.70	260.31		260.32	0.001542	0.61	5.60	25.62	0.31
AV24459	737	Max WS	3.18	259.29	259.79	259.84	259.96	0.032516	1.97	1.88	12.18	1.28
AV24459	648	Max WS	3.18	258.32	259.04	259.08	259.25	0.023061	2.01	1.58	4.73	1.11
AV24459	521	Max WS	3.17	257.57	258.55		258.58	0.002378	0.80	4.13	14.95	0.38
AV24459	439	Max WS	3.17	257.42	258.01	258.11	258.29	0.041343	2.37	1.34	4.97	1.46
AV24459	225	Max WS	3.17	255.28	256.09	256.08	256.33	0.017456	2.13	1.49	3.05	0.97
AV24459	117	Max WS	3.17	254.78	255.69		255.85	0.011262	1.78	1.77	3.45	0.79
AV24459	20	Max WS	3.16	254.75	255.41	255.33	255.54	0.010029	1.56	2.03	4.79	0.76

HEC-RAS Plan: Q30 River: AV24459 Reach: AV24459 Profile: Max WS

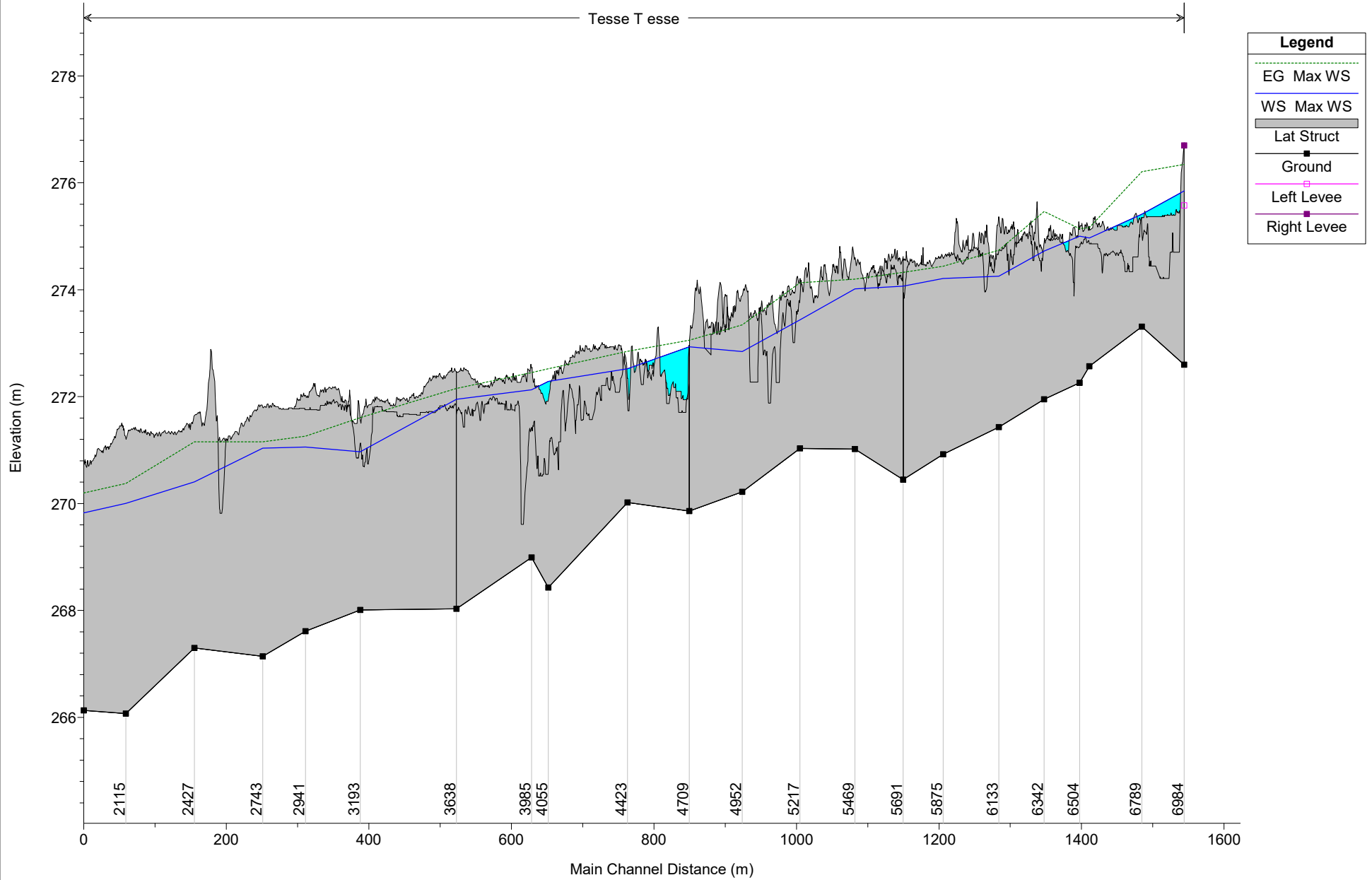
Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Vel Head (m)	Frctn Loss (m)	C & E Loss (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Top Width (m)
AV24459	1953	Max WS	266.82	266.66	0.16	1.09			3.20		6.59
AV24459	1829	Max WS	265.81	265.58	0.23	1.24			3.20		6.16
AV24459	1677	Max WS	264.49	264.34	0.14	0.78		0.20	2.85	0.15	8.68
AV24459	1466	Max WS	263.65	263.56	0.09	0.66		0.11	2.34	0.74	7.96
AV24459	1369	Max WS	263.20	262.91	0.29	1.27		0.08	3.03	0.07	6.67
AV24459	1206	Max WS	261.75	261.65	0.10	0.45		1.40	1.77	0.01	11.20
AV24459	1087	Max WS	261.30	261.20	0.10	0.66		0.65	2.53		12.46
AV24459	937	Max WS	260.64	260.57	0.08	0.29		1.69	1.48	0.00	19.15
AV24459	834	Max WS	260.32	260.31	0.01	0.50		1.04	1.28	0.17	25.62
AV24459	737	Max WS	259.96	259.79	0.17	0.75		0.59	2.57	0.01	12.18
AV24459	648	Max WS	259.25	259.04	0.21	0.49			3.18		4.73
AV24459	521	Max WS	258.58	258.55	0.03	0.54		0.03	3.14		14.95
AV24459	439	Max WS	258.29	258.01	0.29	1.92			3.17		4.97
AV24459	225	Max WS	256.33	256.09	0.23	0.47			3.17		3.05
AV24459	117	Max WS	255.85	255.69	0.16	0.32			3.17		3.45
AV24459	20	Max WS	255.54	255.41	0.12				3.16		4.79

OUTPUT HEC-RAS
TR30

TORRENTE ESSE

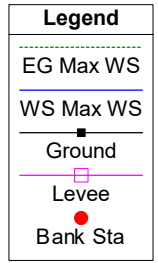
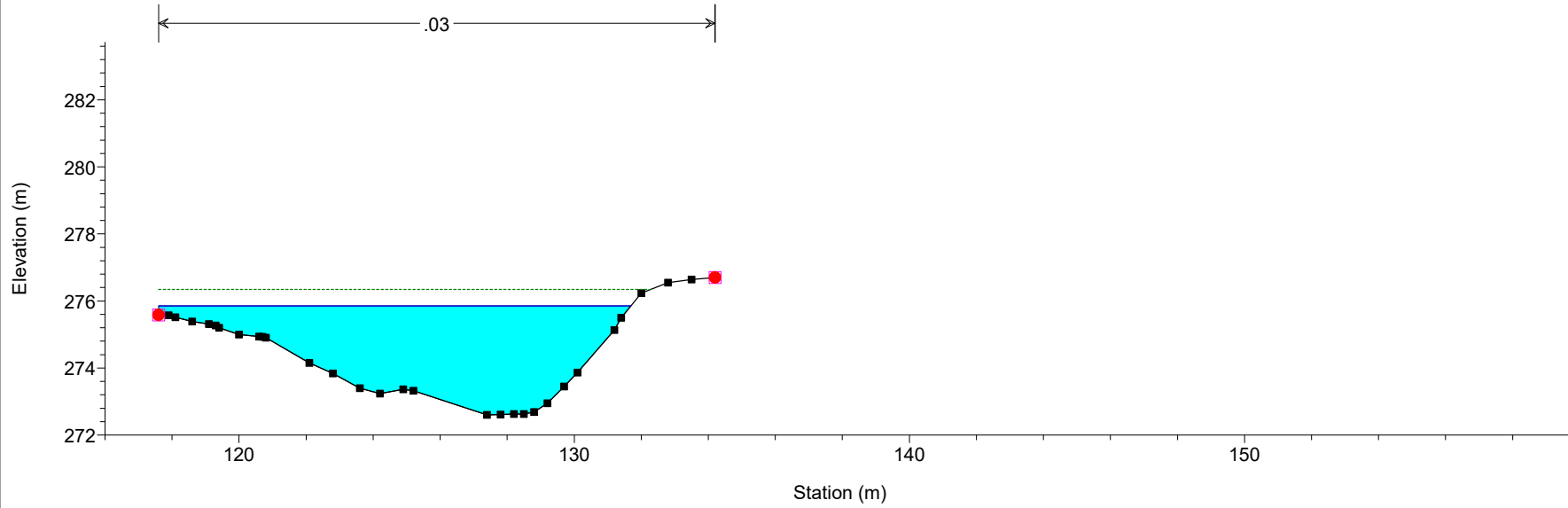
T_esse Plan: Q30rev1

Tesse T esse

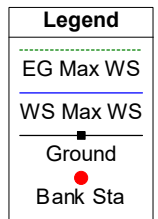
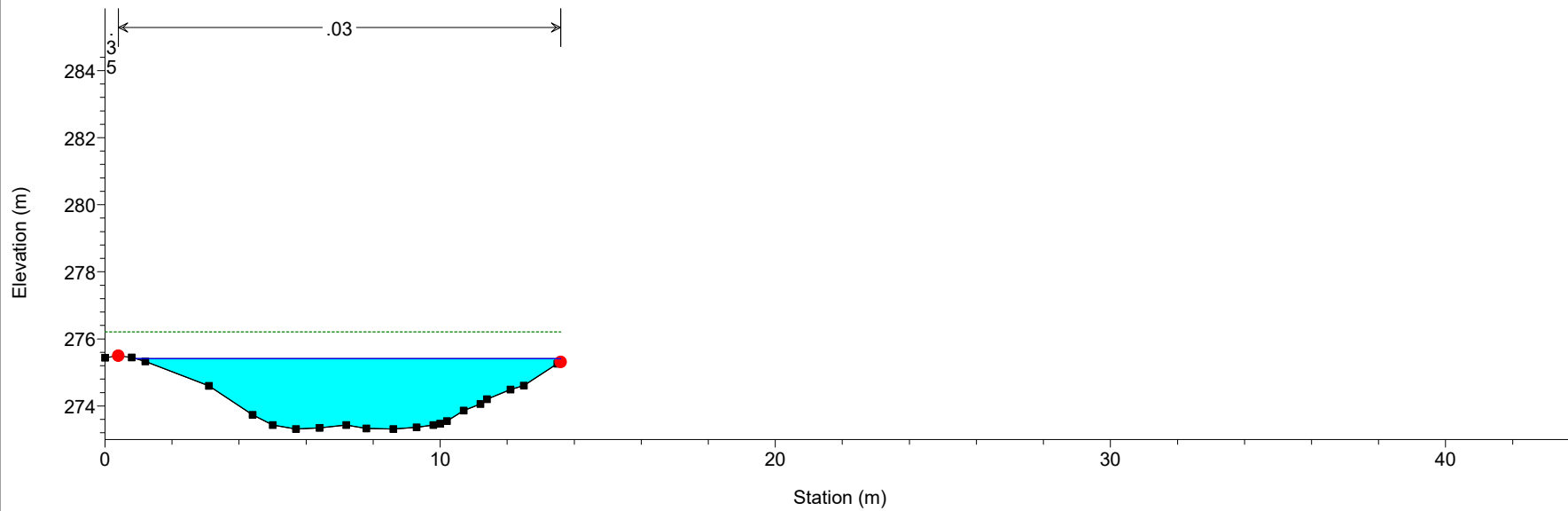


1 cm Horiz. = 75 m 1 cm Vert. = 1 m

T_esse Plan: Q30rev1

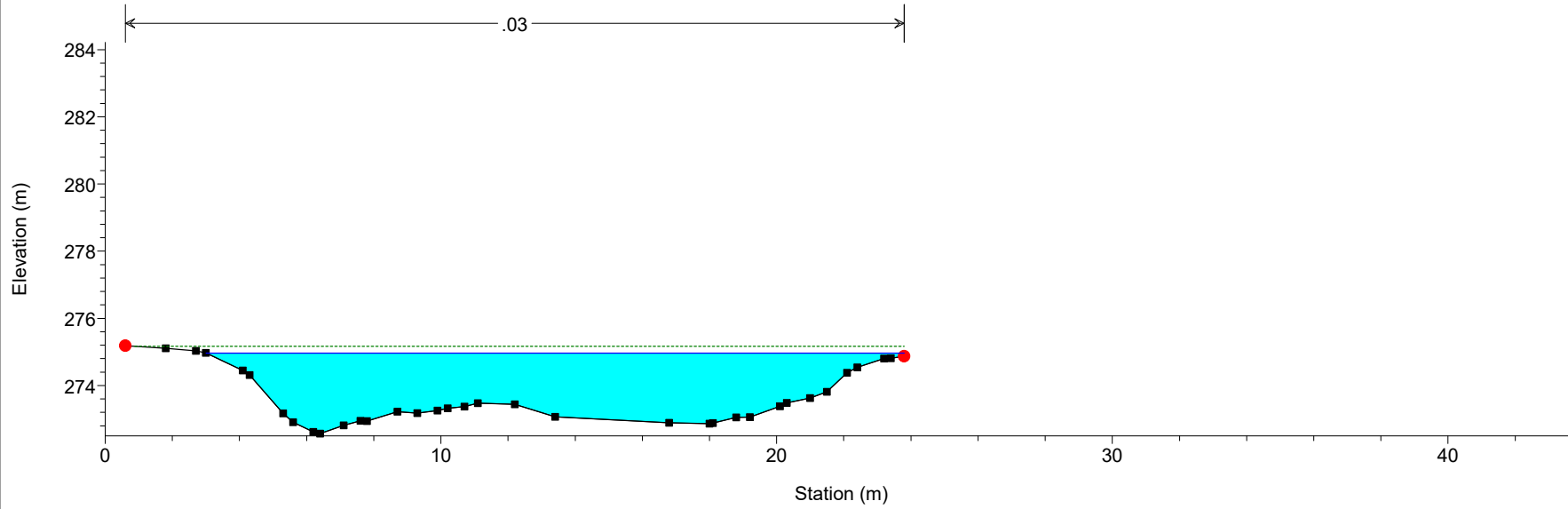


T_esse Plan: Q30rev1

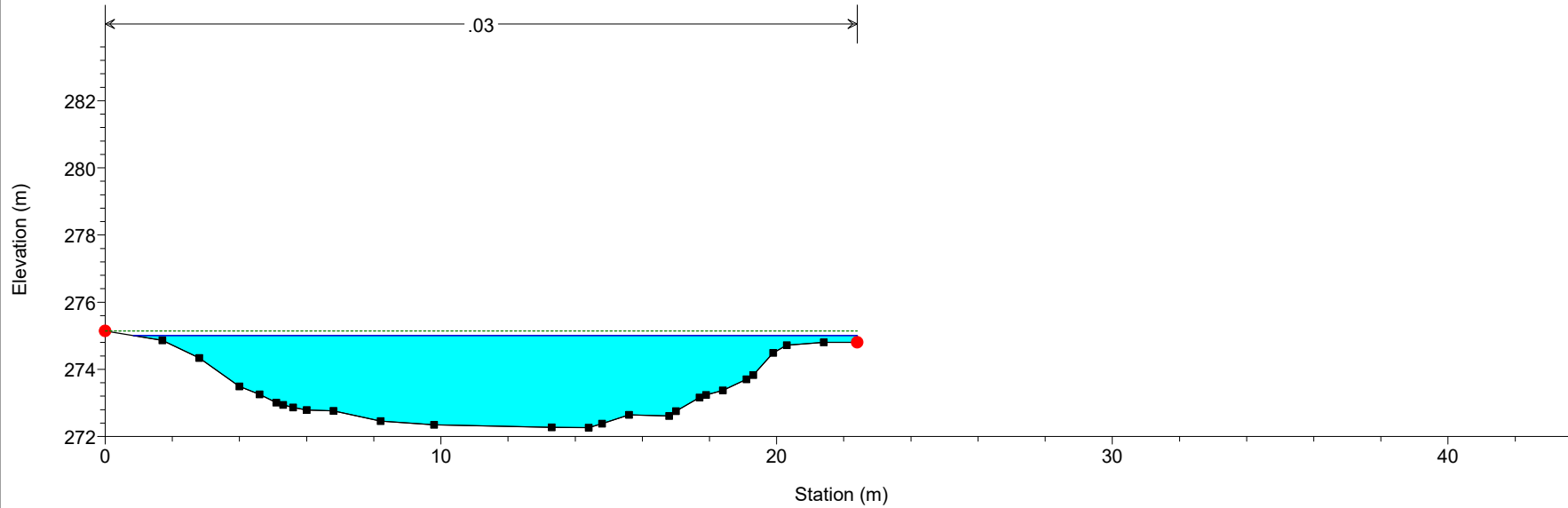


1 cm Horiz. = 2 m 1 cm Vert. = 2 m

T_esse Plan: Q30rev1

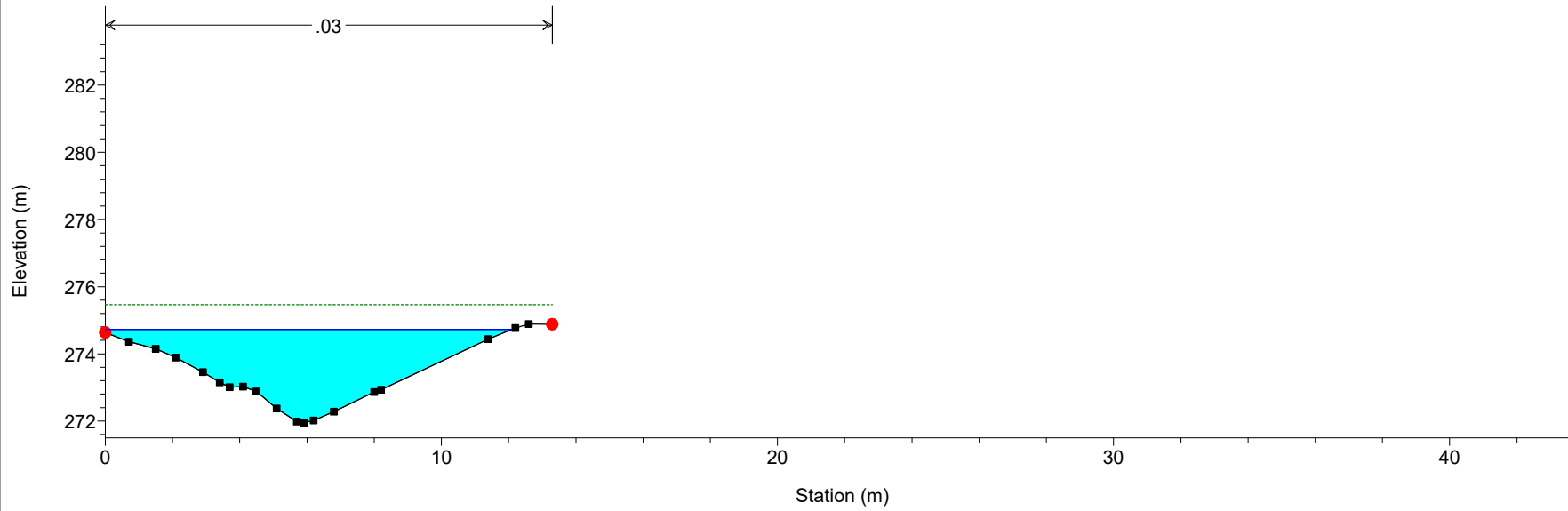


T_esse Plan: Q30rev1



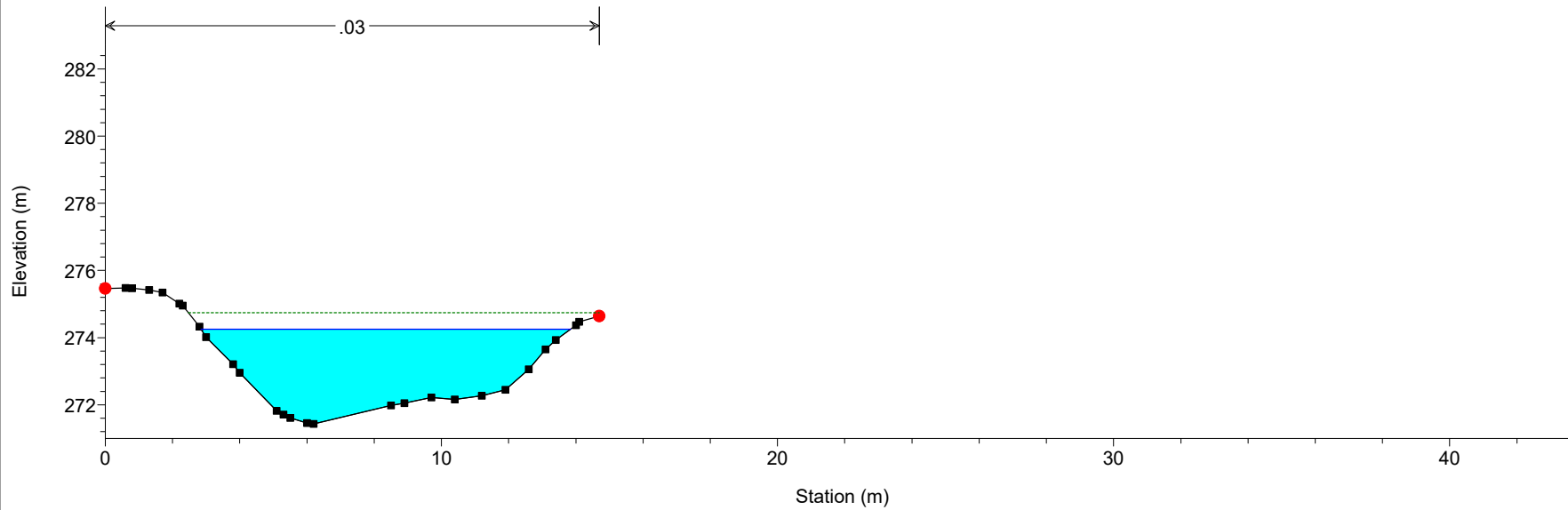
1 cm Horiz. = 2 m 1 cm Vert. = 2 m

T_esse Plan: Q30rev1



Legend	
-----	EG Max WS
-----	WS Max WS
-----	Ground
●	Bank Sta

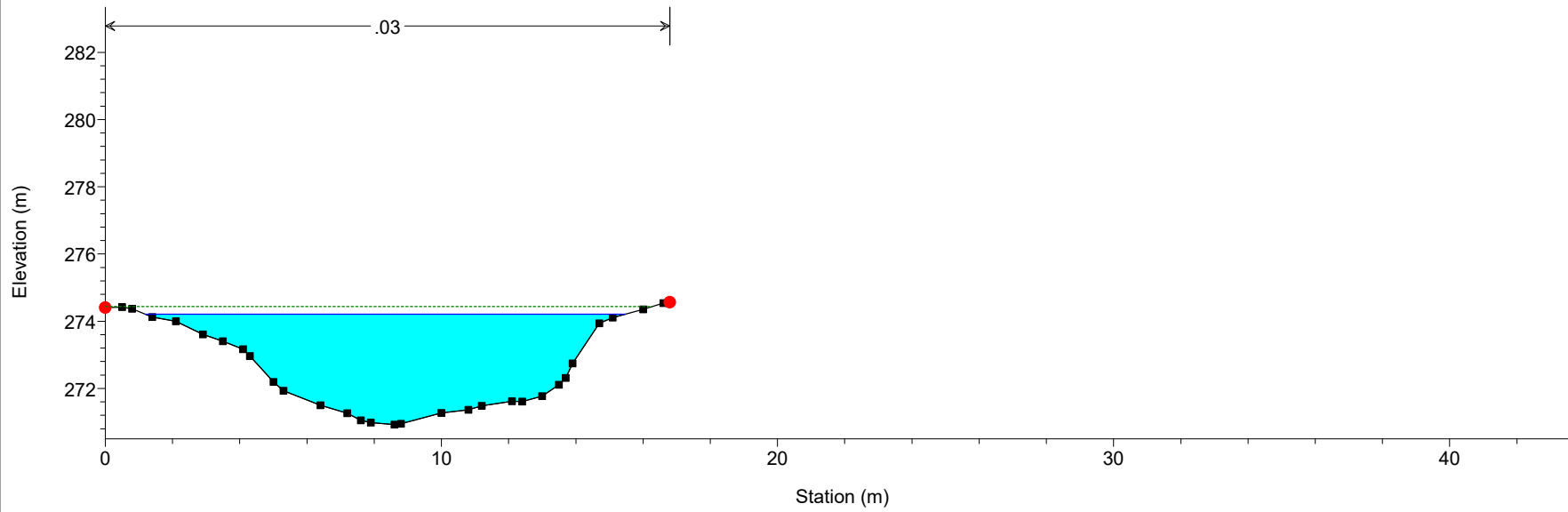
T_esse Plan: Q30rev1



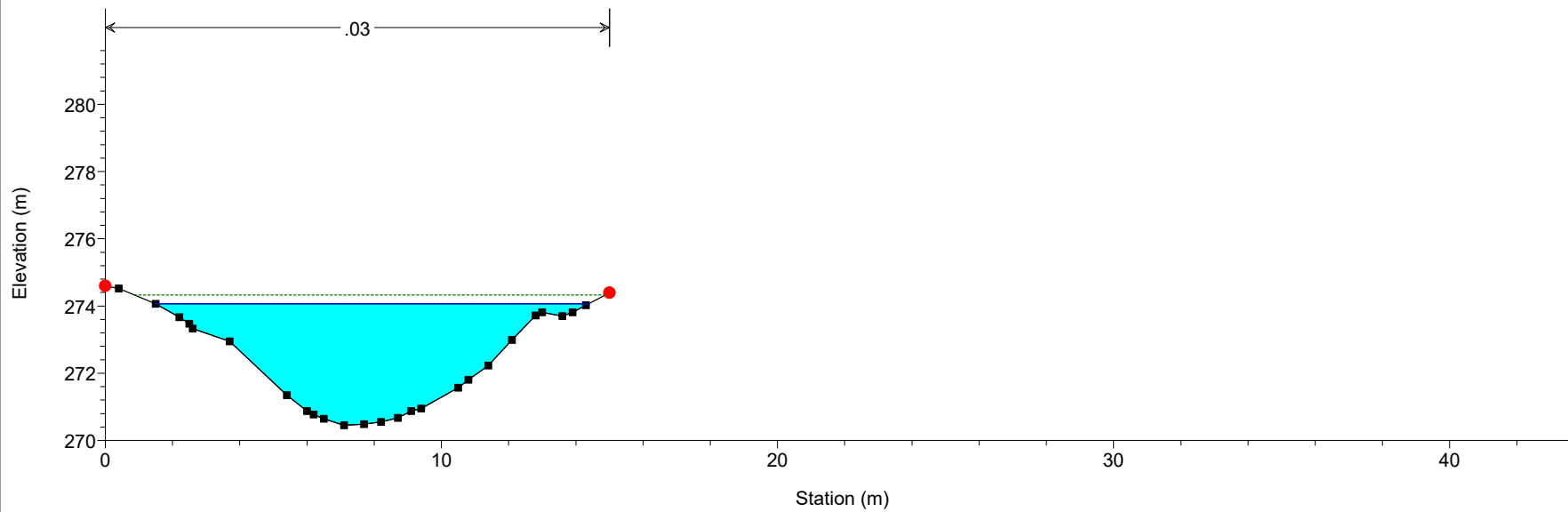
Legend	
-----	EG Max WS
-----	WS Max WS
-----	Ground
●	Bank Sta

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

T_esse Plan: Q30rev1

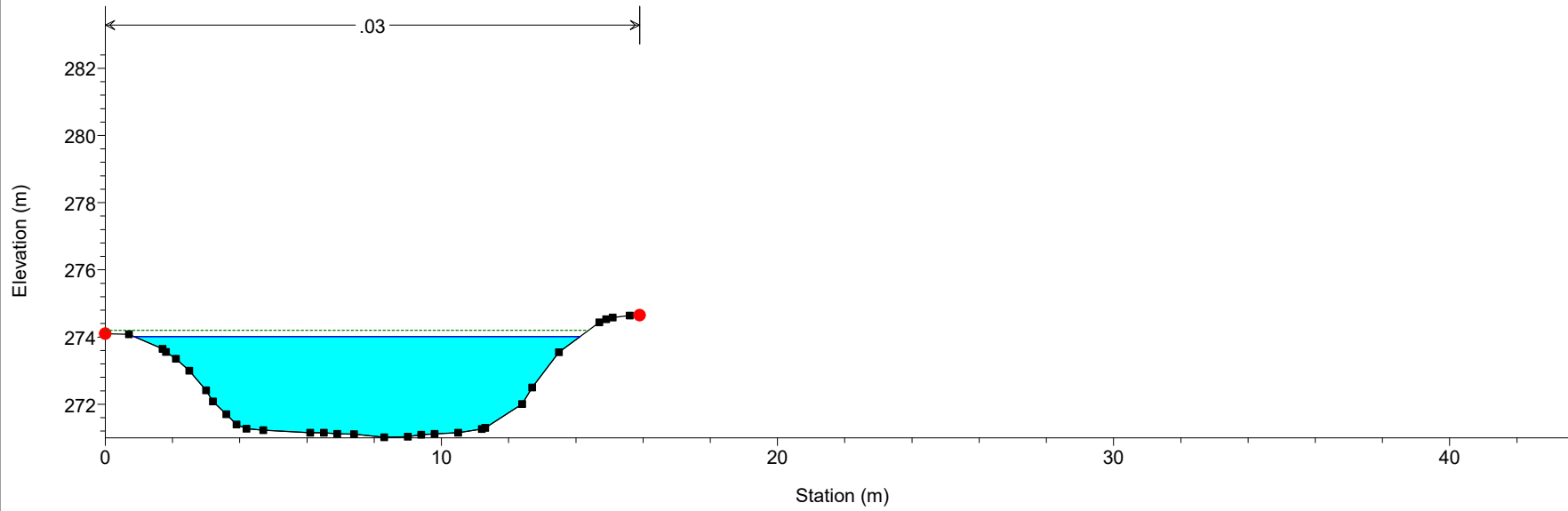


T_esse Plan: Q30rev1

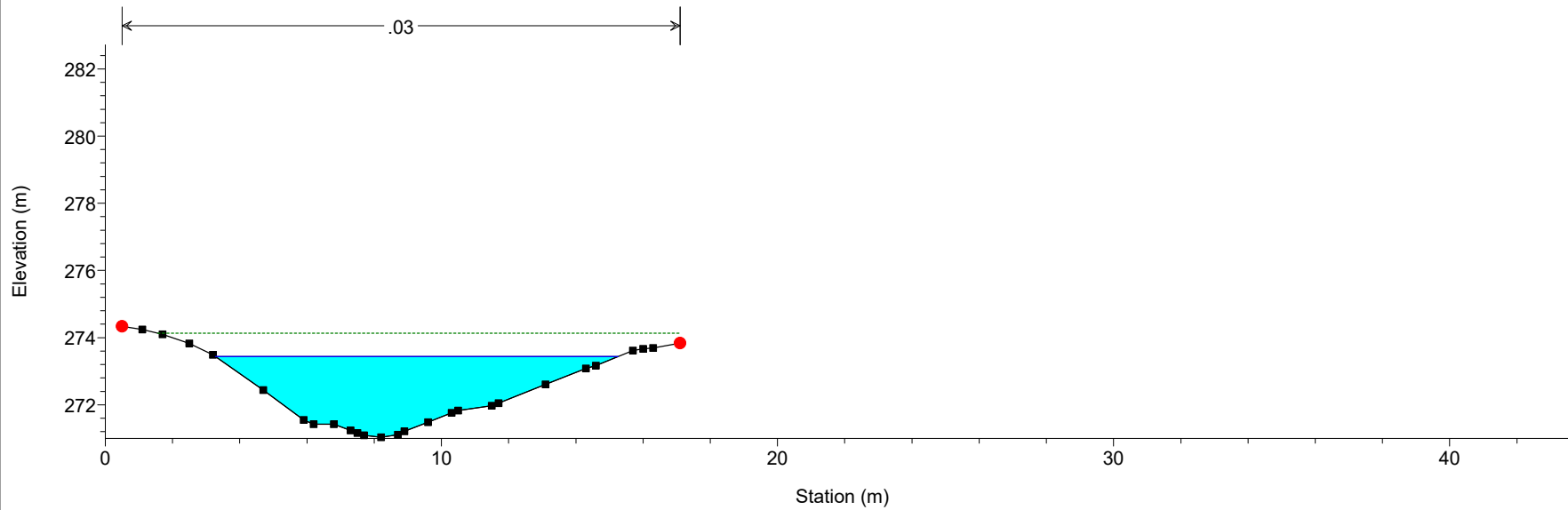


1 cm Horiz. = 2 m 1 cm Vert. = 2 m

T_esse Plan: Q30rev1

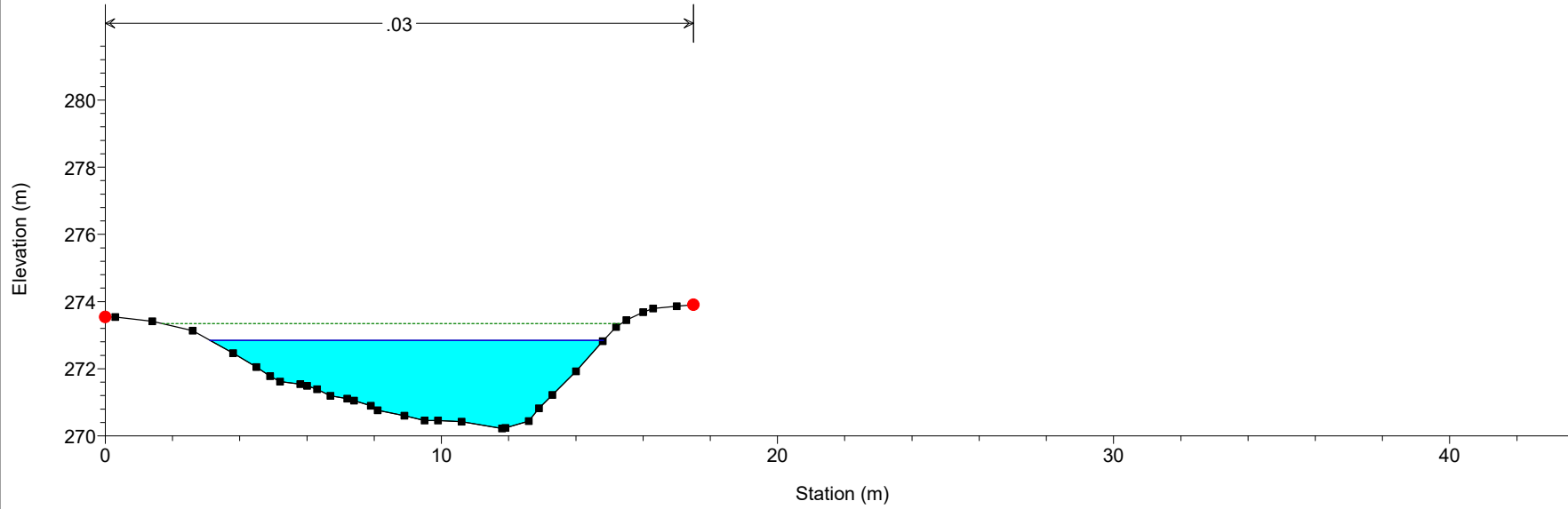


T_esse Plan: Q30rev1

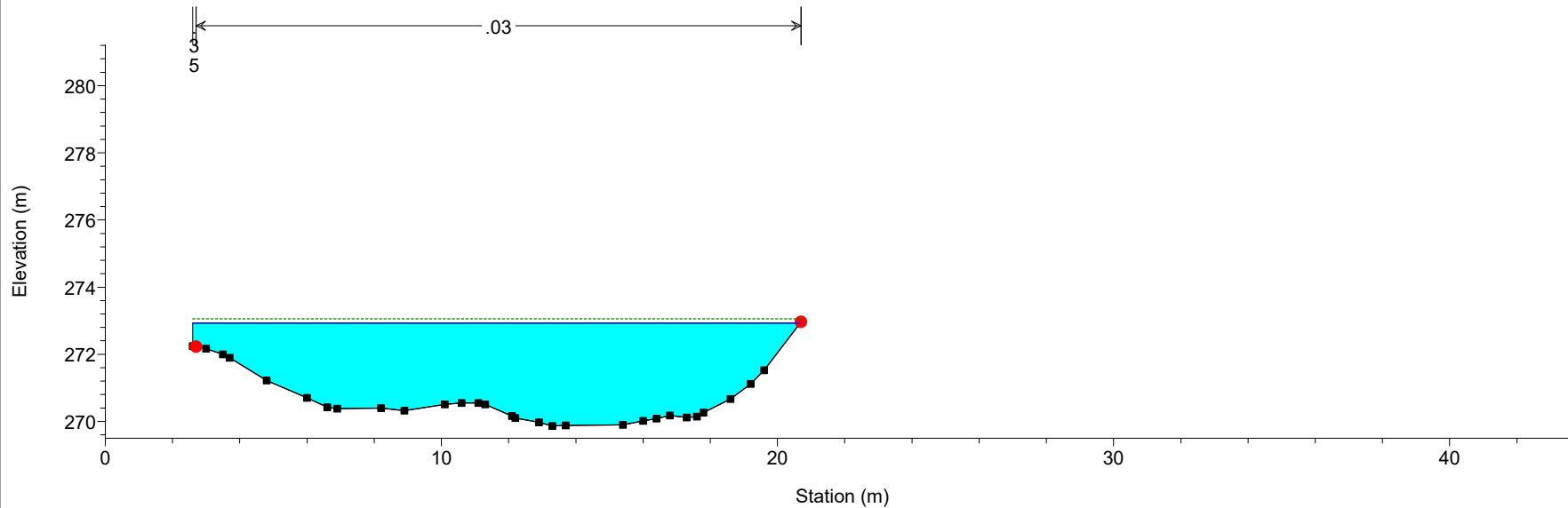


1 cm Horiz. = 2 m 1 cm Vert. = 2 m

T_esse Plan: Q30rev1

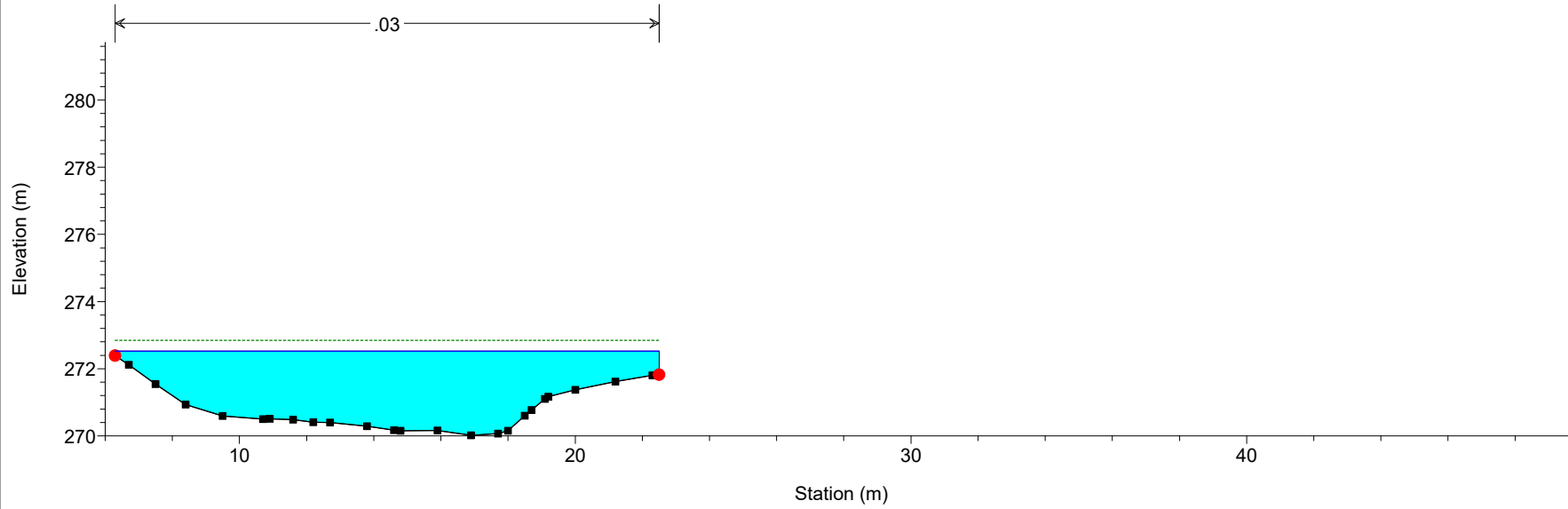


T_esse Plan: Q30rev1

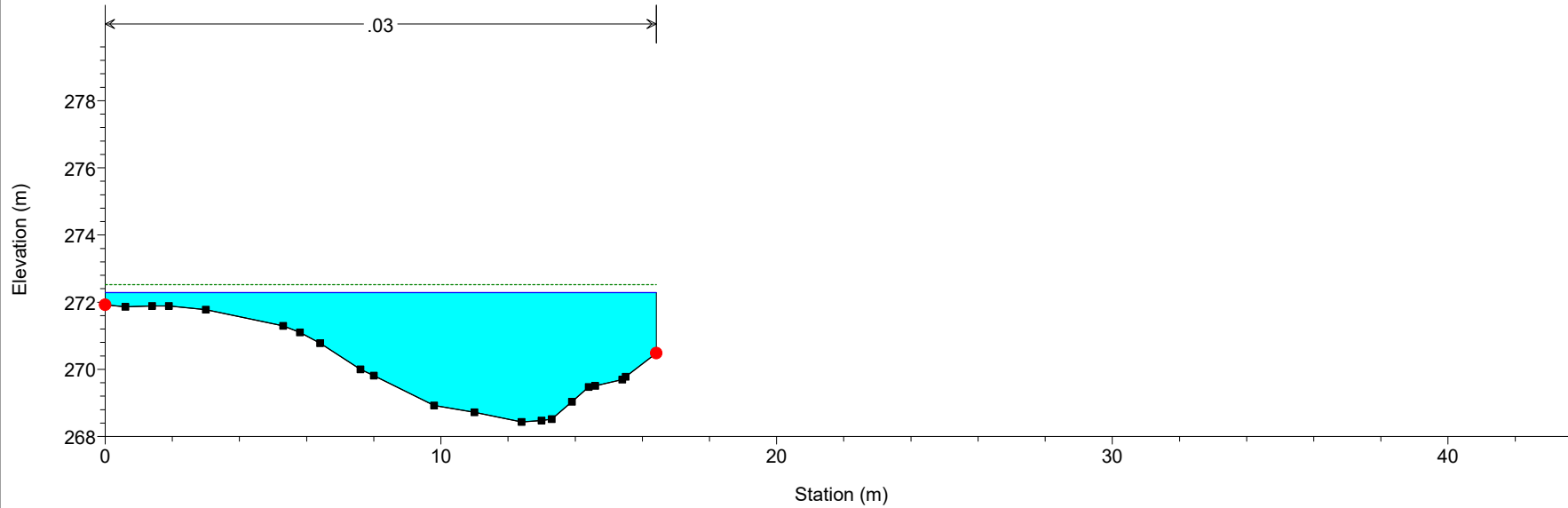


1 cm Horiz. = 2 m 1 cm Vert. = 2 m

T_esse Plan: Q30rev1

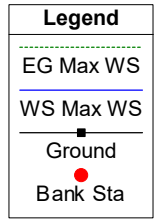
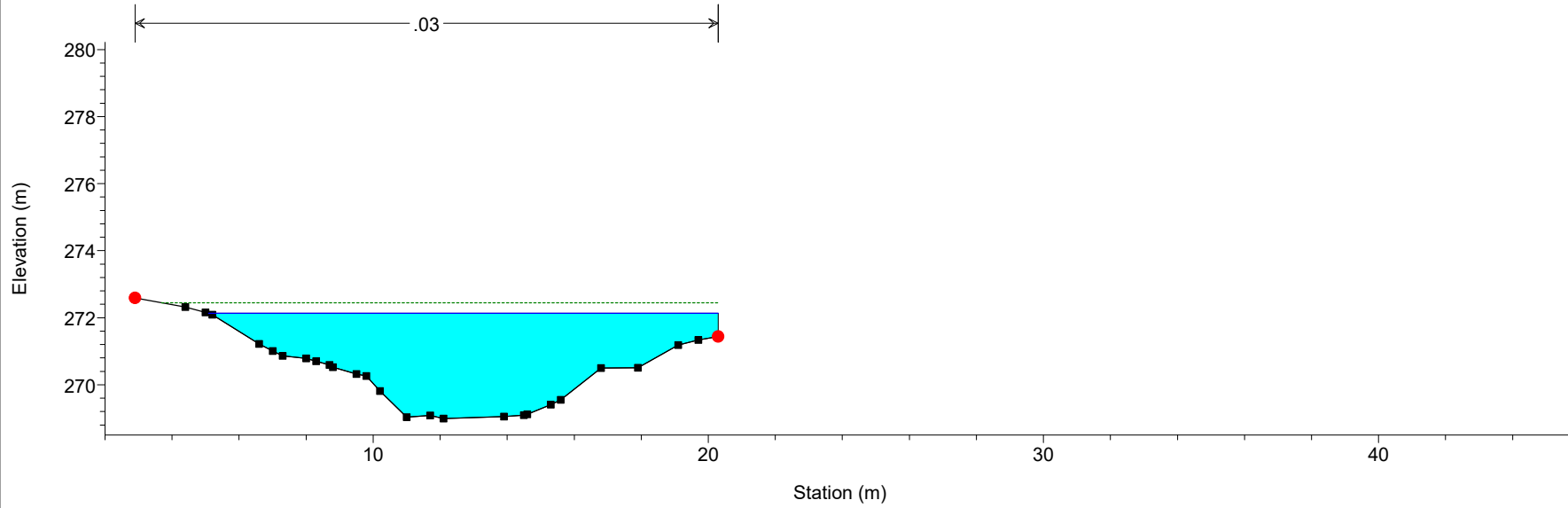


T_esse Plan: Q30rev1

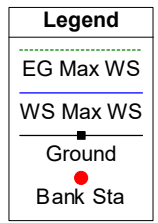
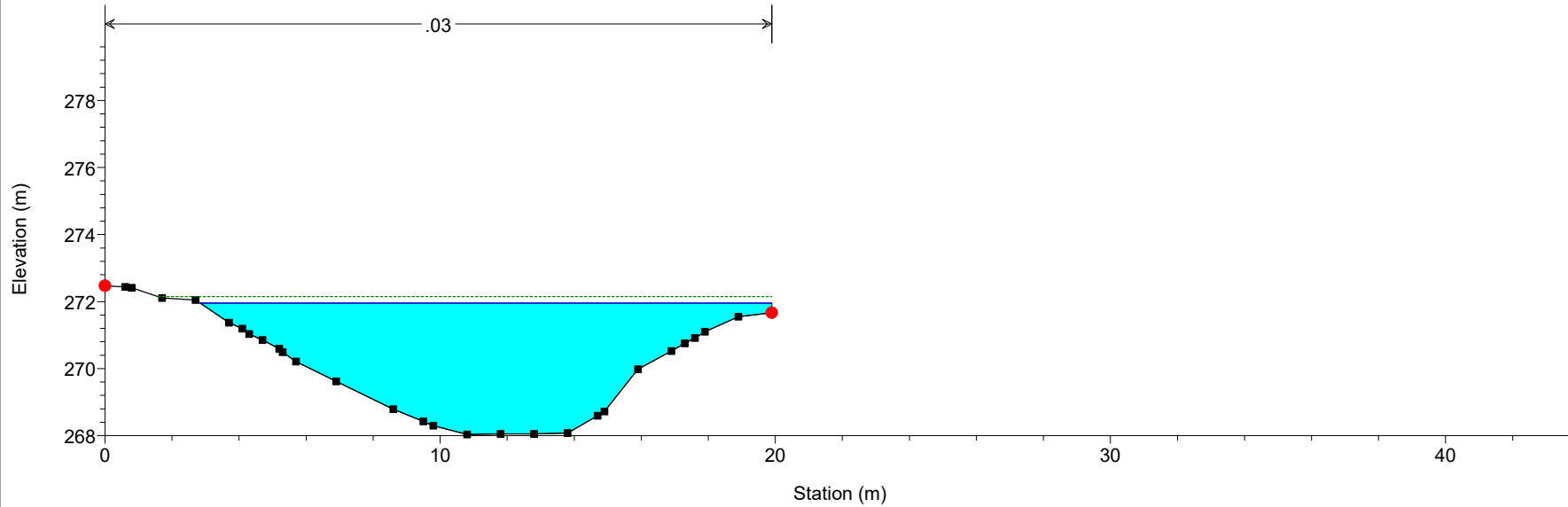


1 cm Horiz. = 2 m 1 cm Vert. = 2 m

T_esse Plan: Q30rev1

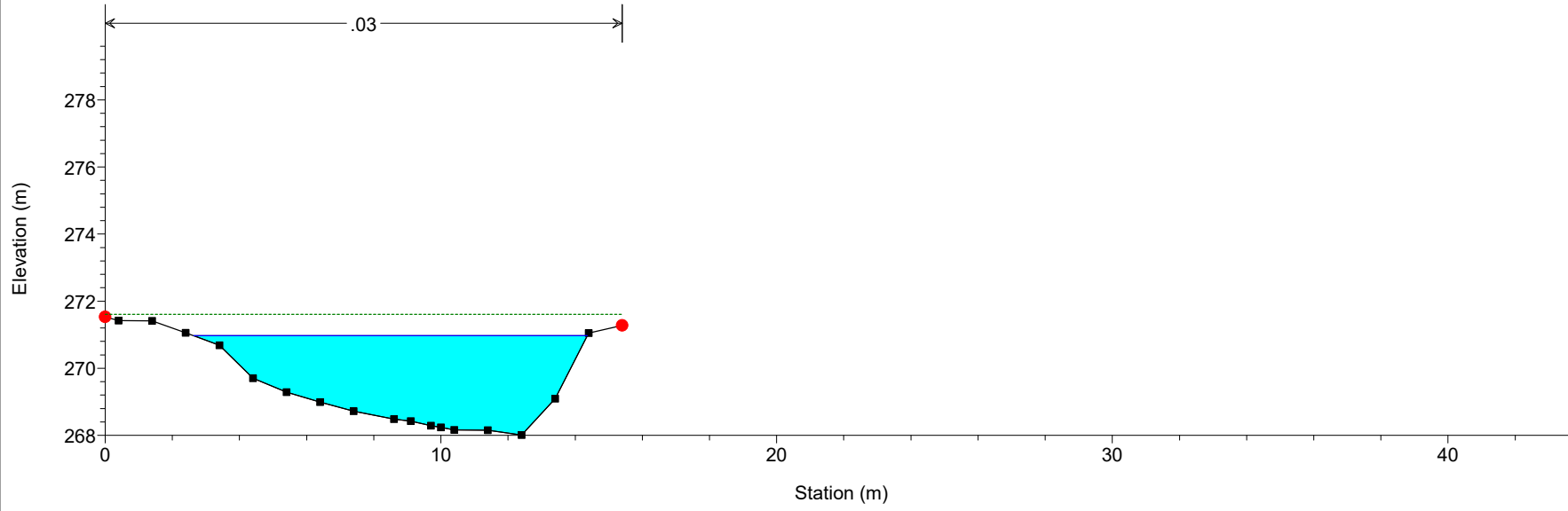


T_esse Plan: Q30rev1

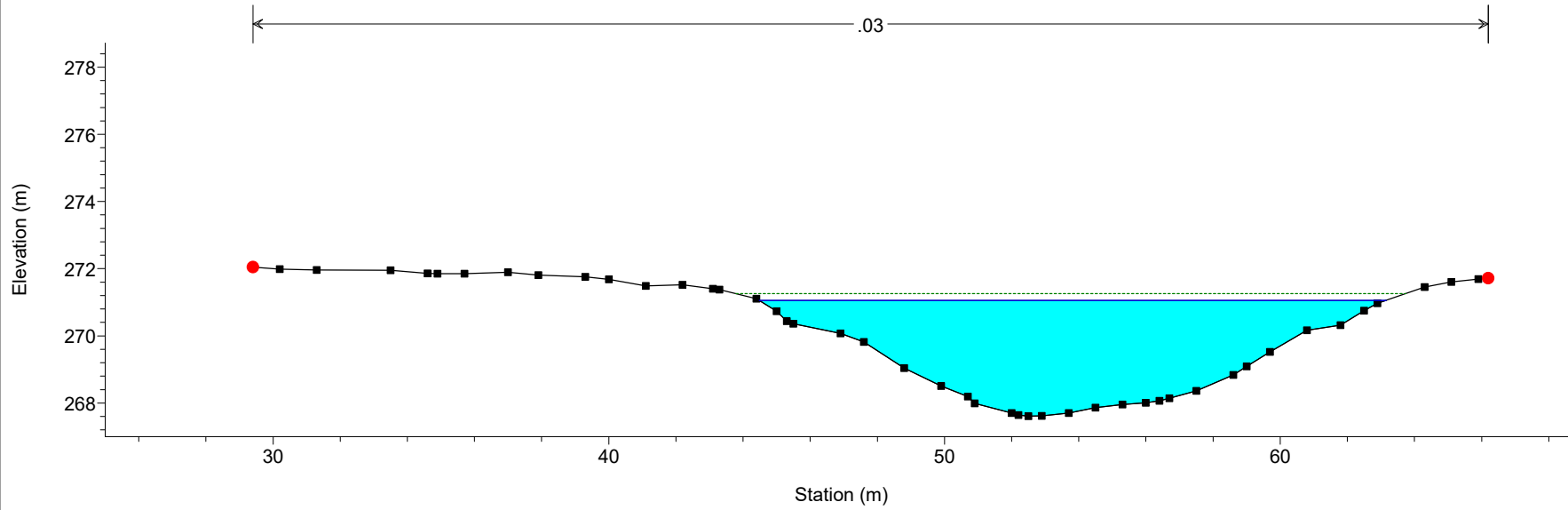


1 cm Horiz. = 2 m 1 cm Vert. = 2 m

T_esse Plan: Q30rev1

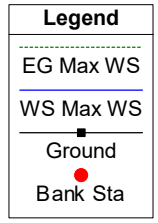
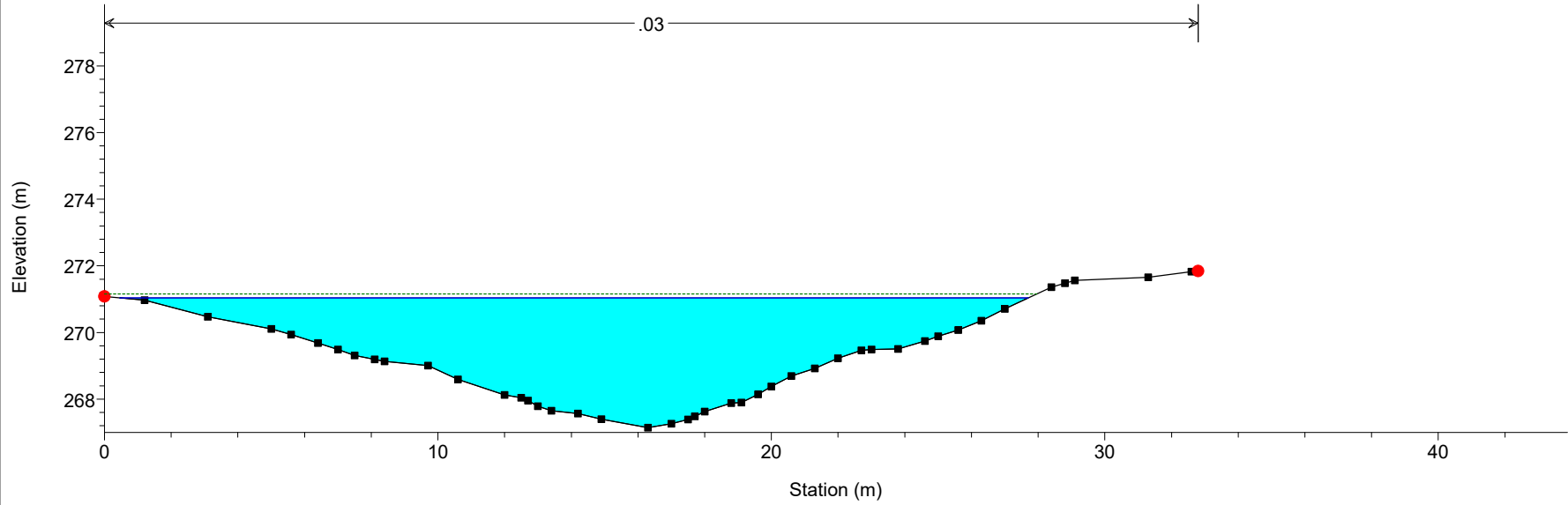


T_esse Plan: Q30rev1

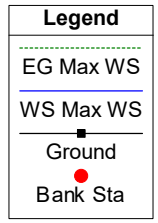
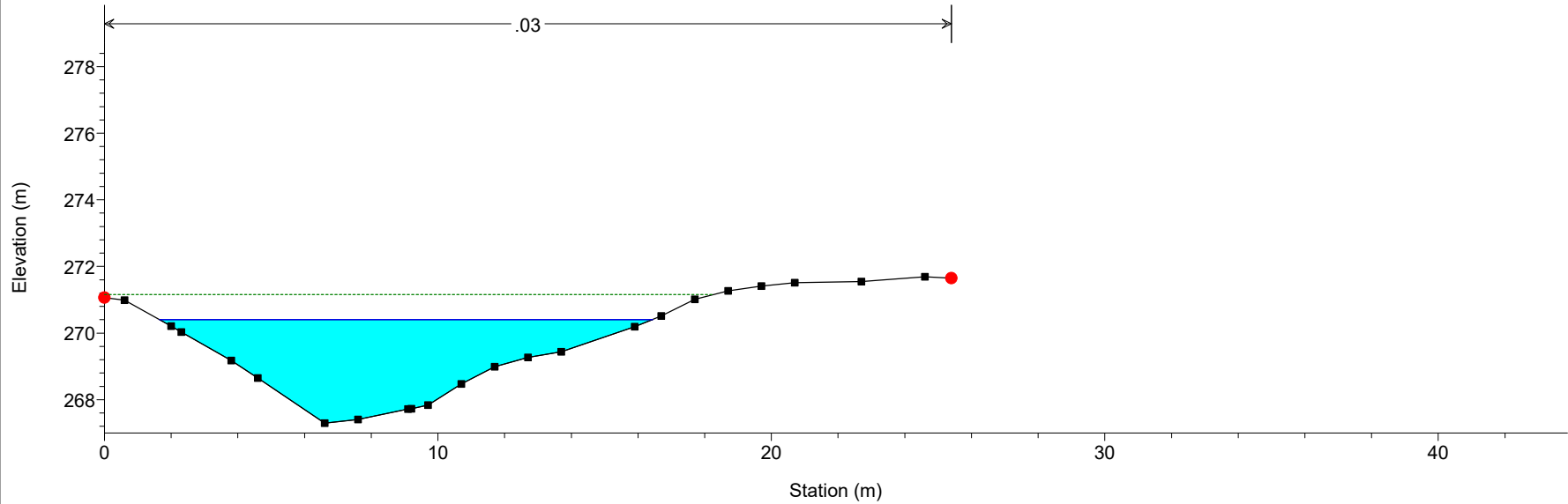


1 cm Horiz. = 2 m 1 cm Vert. = 2 m

T_esse Plan: Q30rev1

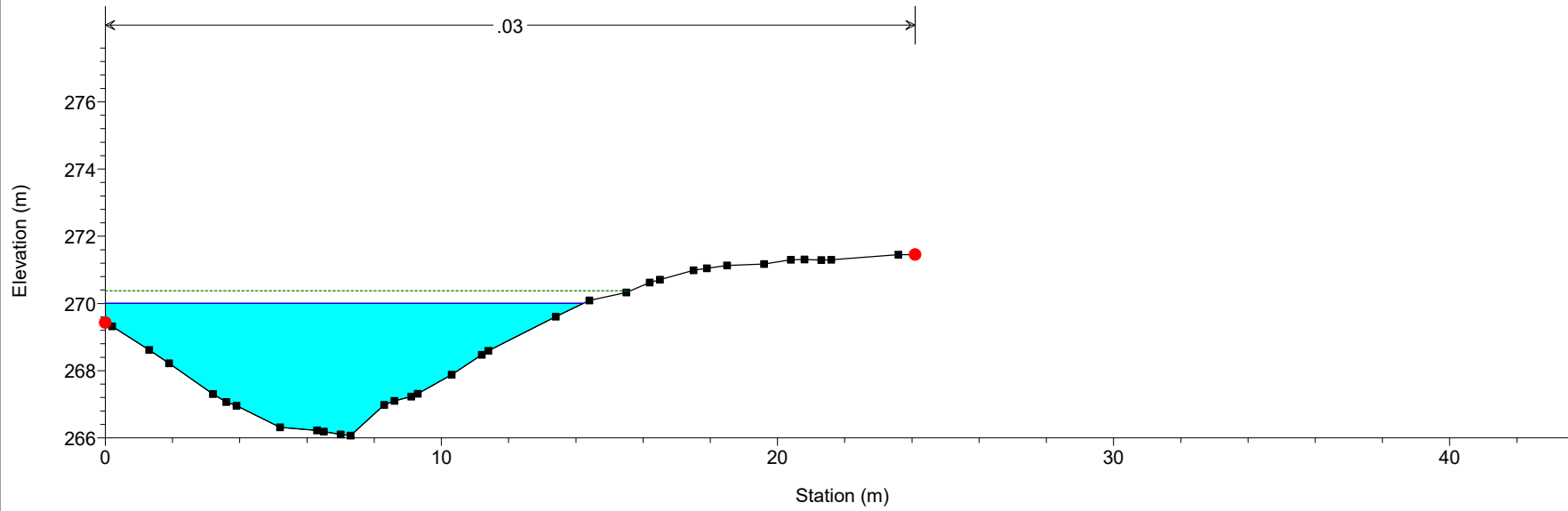


T_esse Plan: Q30rev1

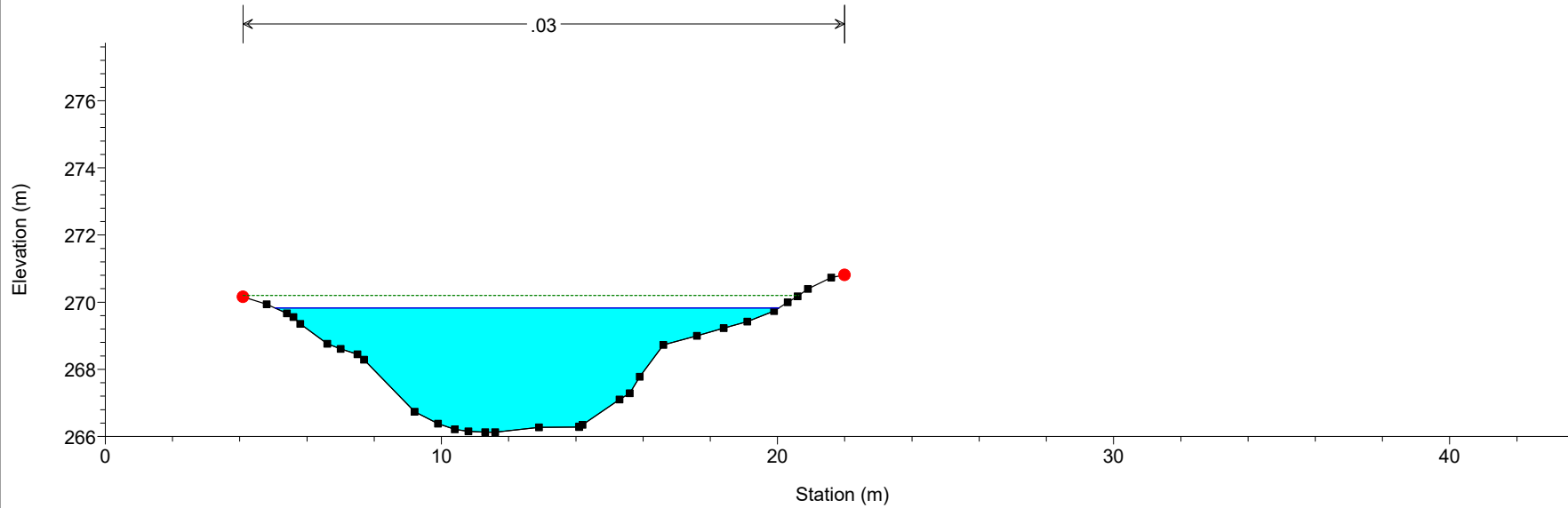


1 cm Horiz. = 2 m 1 cm Vert. = 2 m

T_esse Plan: Q30rev1



T_esse Plan: Q30rev1



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

HEC-RAS Plan: Q30rev1 River: Tesse Reach: T esse Profile: Max WS

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
T esse	6984	Max WS	83.30	272.60	275.85		276.35	0.004554	3.11	26.74	14.09	0.72
T esse	6900		Lat Struct									
T esse	6800		Lat Struct									
T esse	6789	Max WS	69.80	273.31	275.42	275.49	276.21	0.010090	3.95	17.66	12.68	1.07
T esse	6549	Max WS	63.99	272.57	274.97		275.16	0.002091	1.96	32.65	20.79	0.50
T esse	6504	Max WS	63.94	272.26	275.00		275.14	0.001222	1.65	38.78	21.56	0.39
T esse	6342	Max WS	62.78	271.95	274.72	274.76	275.46	0.010032	3.82	16.45	12.08	1.04
T esse	6133	Max WS	62.76	271.43	274.25		274.74	0.004719	3.09	20.33	11.00	0.73
T esse	5875	Max WS	59.43	270.92	274.21		274.44	0.001980	2.12	28.06	14.29	0.48
T esse	5691	Max WS	56.44	270.45	274.07		274.33	0.002359	2.25	25.08	12.91	0.52
T esse	5600		Lat Struct									
T esse	5500		Lat Struct									
T esse	5469	Max WS	54.10	271.02	274.02		274.20	0.001424	1.89	28.62	13.28	0.41
T esse	5217	Max WS	60.40	271.03	273.44	273.44	274.13	0.009127	3.69	16.36	11.98	1.01
T esse	4952	Max WS	60.38	270.22	272.85		273.34	0.005340	3.12	19.35	11.71	0.78
T esse	4709	Max WS	64.71	269.86	272.93		273.06	0.000824	1.57	41.38	18.08	0.33
T esse	4700		Lat Struct									
T esse	4600		Lat Struct									
T esse	4423	Max WS	71.02	270.02	272.52		272.85	0.003146	2.52	28.20	16.20	0.61
T esse	4055	Max WS	73.61	268.43	272.29		272.52	0.002034	2.15	34.19	16.42	0.48
T esse	3985	Max WS	72.63	268.99	272.13		272.45	0.002878	2.50	28.99	15.21	0.58
T esse	3638	Max WS	78.64	268.03	271.95		272.15	0.001392	1.99	39.48	17.05	0.42
T esse	3600		Lat Struct									
T esse	3500		Lat Struct									
T esse	3193	Max WS	81.12	268.01	270.97		271.61	0.005865	3.54	22.90	11.72	0.81
T esse	2941	Max WS	75.49	267.61	271.06		271.26	0.001552	1.99	37.88	18.67	0.45
T esse	2743	Max WS	80.00	267.14	271.04		271.15	0.000883	1.50	53.29	27.25	0.34
T esse	2427	Max WS	91.50	267.30	270.41	270.35	271.15	0.007918	3.83	23.88	14.79	0.96
T esse	2115	Max WS	86.57	266.07	270.01		270.37	0.002736	2.69	32.19	14.22	0.57
T esse	1925	Max WS	85.03	266.13	269.82	268.97	270.20	0.003001	2.70	31.46	14.98	0.60

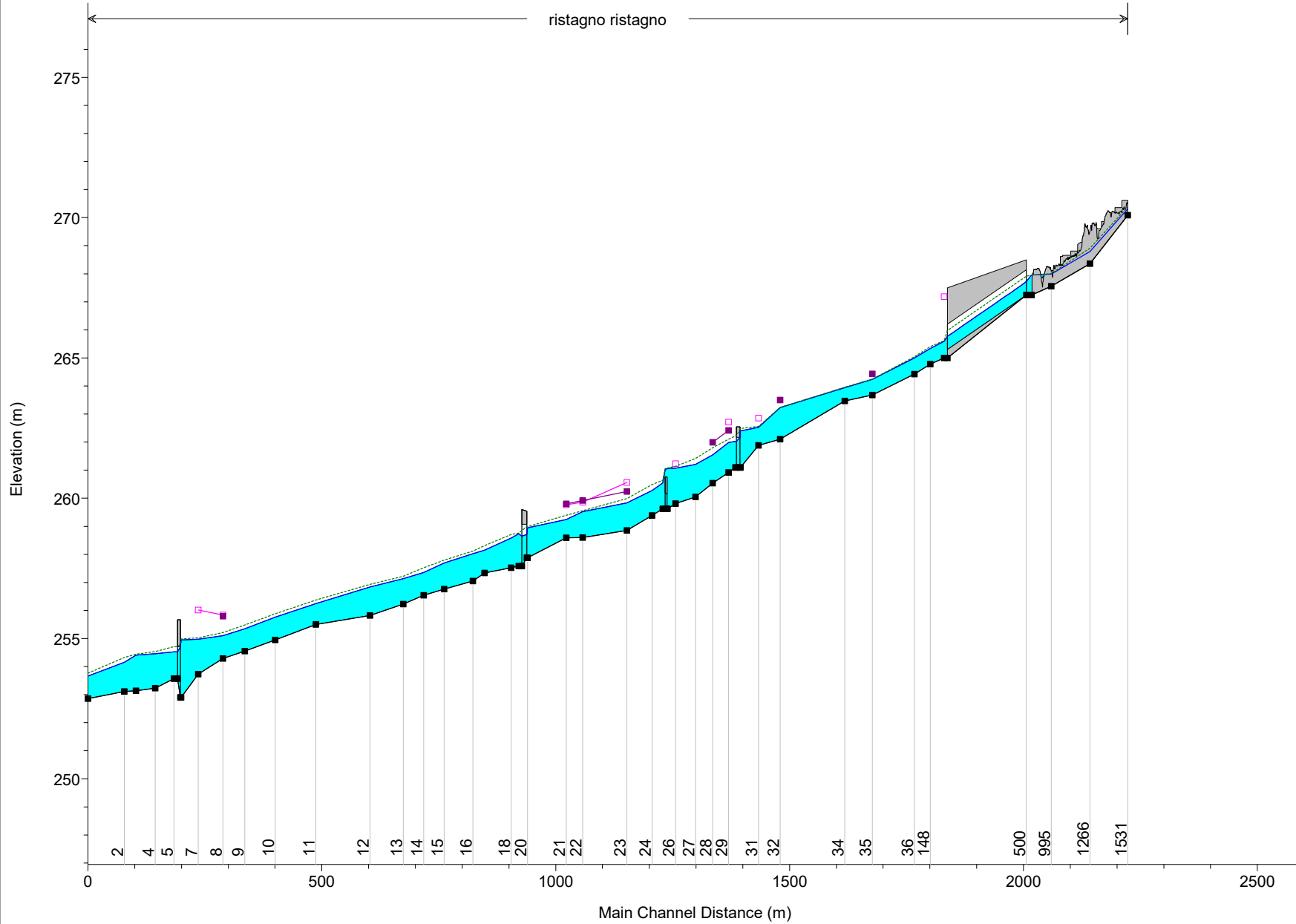
HEC-RAS Plan: Q30rev1 River: Tesse Reach: T esse Profile: Max WS

Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Vel Head (m)	Frctn Loss (m)	C & E Loss (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Top Width (m)
T esse	6984	Max WS	276.35	275.85	0.49	0.44			83.30		14.09
T esse	6900		Lat Struct								
T esse	6800		Lat Struct								
T esse	6789	Max WS	276.21	275.42	0.80	0.45			69.80		12.68
T esse	6549	Max WS	275.16	274.97	0.20	0.02			63.99		20.79
T esse	6504	Max WS	275.14	275.00	0.14	0.28			63.94		21.56
T esse	6342	Max WS	275.46	274.72	0.74	0.47			62.78		12.08
T esse	6133	Max WS	274.74	274.25	0.49	0.26			62.76		11.00
T esse	5875	Max WS	274.44	274.21	0.23	0.12			59.43		14.29
T esse	5691	Max WS	274.33	274.07	0.26	0.13			56.44		12.91
T esse	5600		Lat Struct								
T esse	5500		Lat Struct								
T esse	5469	Max WS	274.20	274.02	0.18	0.41			54.10		13.28
T esse	5217	Max WS	274.13	273.44	0.69	0.58			60.40		11.98
T esse	4952	Max WS	273.34	272.85	0.50	0.23			60.38		11.71
T esse	4709	Max WS	273.06	272.93	0.13	0.17		0.00	64.71		18.08
T esse	4700		Lat Struct								
T esse	4600		Lat Struct								
T esse	4423	Max WS	272.85	272.52	0.32	0.29			71.02		16.20
T esse	4055	Max WS	272.52	272.29	0.24	0.06			73.61		16.42
T esse	3985	Max WS	272.45	272.13	0.32	0.23			72.63		15.21
T esse	3638	Max WS	272.15	271.95	0.20	0.49			78.64		17.05
T esse	3600		Lat Struct								
T esse	3500		Lat Struct								
T esse	3193	Max WS	271.61	270.97	0.64	0.28			81.12		11.72
T esse	2941	Max WS	271.26	271.06	0.20	0.07			75.49		18.67
T esse	2743	Max WS	271.15	271.04	0.11	0.42			80.00		27.25
T esse	2427	Max WS	271.15	270.41	0.75	0.51			91.50		14.79
T esse	2115	Max WS	270.37	270.01	0.37	0.17			86.57		14.22
T esse	1925	Max WS	270.20	269.82	0.37				85.03		14.98

OUTPUT HEC-RAS
TR30

FOSSO RISTAGNO

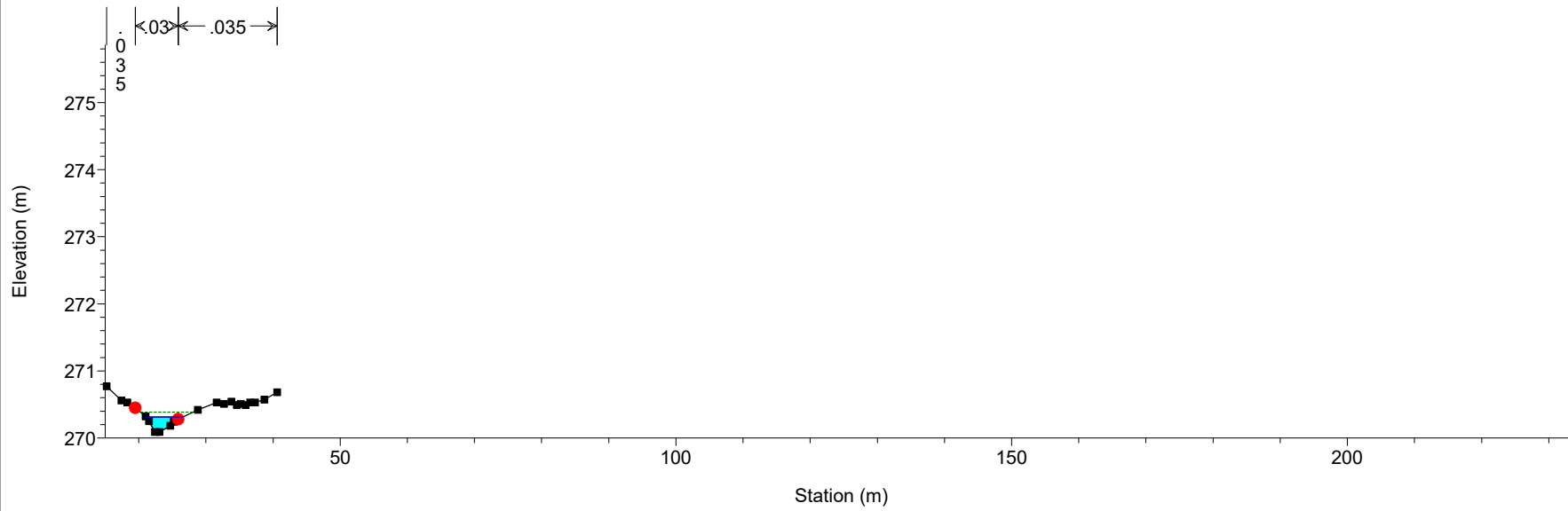
ristagno_rev1 Plan: Q30_definitivo
ristagno ristagno



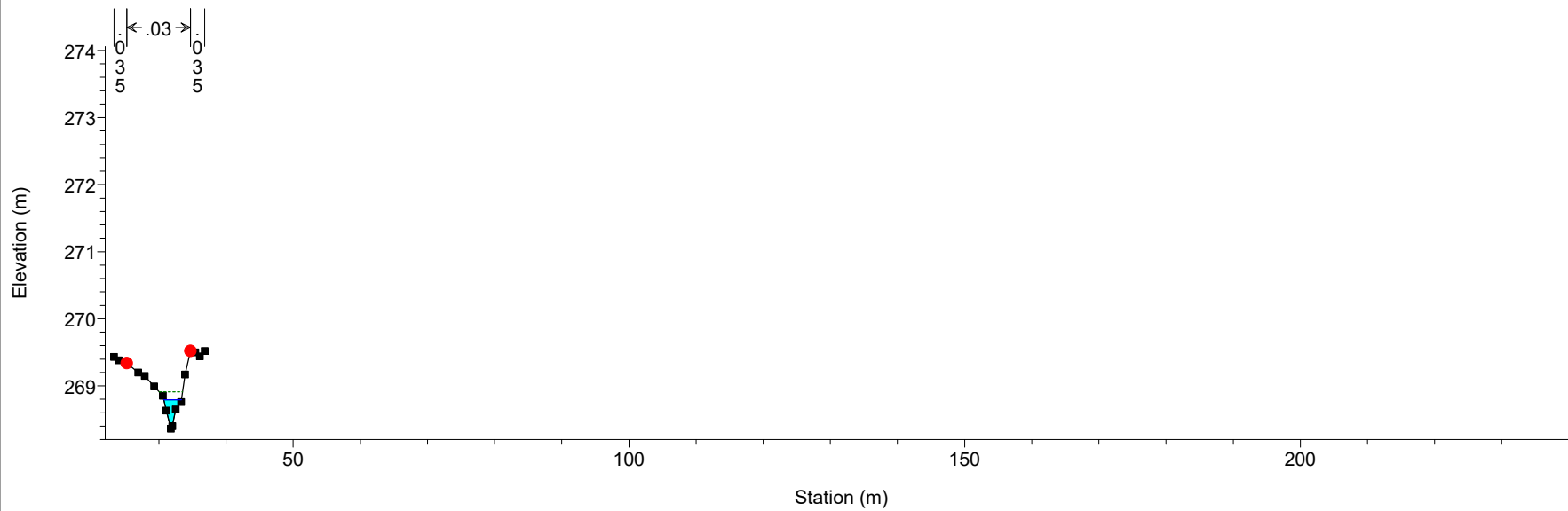
Legend	
EG Max WS	(Dashed green line)
WS Max WS	(Solid blue line)
Lat Struct	(Grey shaded area)
Ground	(Black line with square markers)
Left Levee	(Magenta line with square markers)
Right Levee	(Magenta line with square markers)

1 cm Horiz. = 120 m 1 cm Vert. = 2 m

ristagno_rev1 Plan: Q30_definitivo

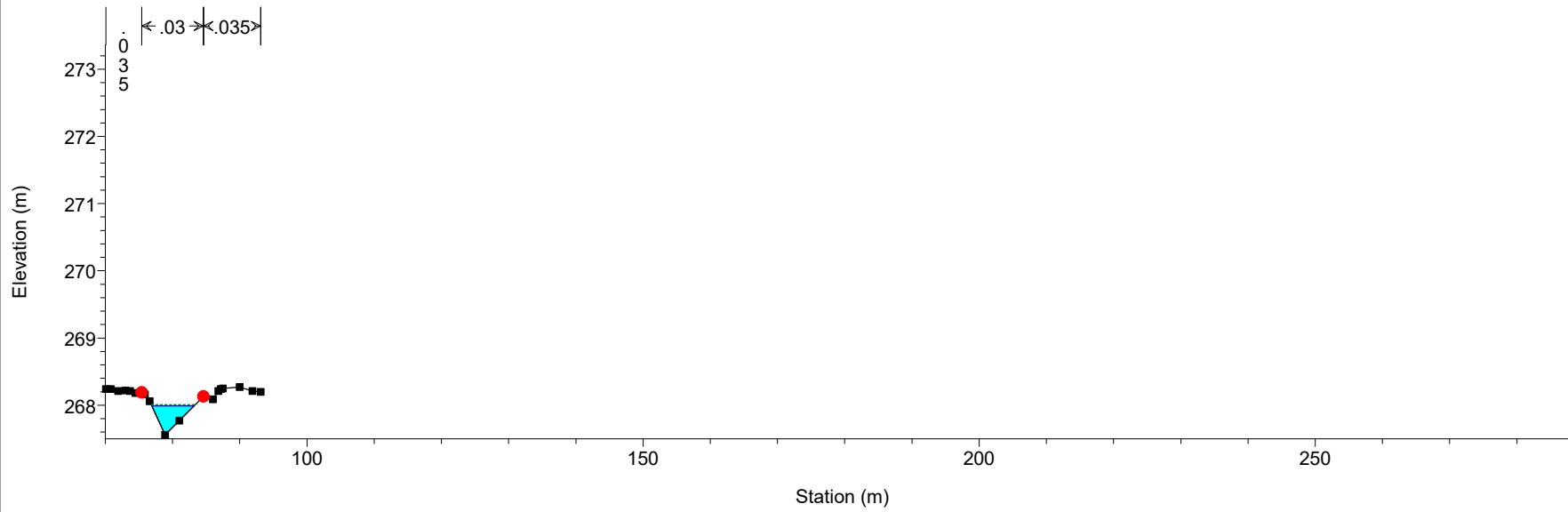


ristagno_rev1 Plan: Q30_definitivo

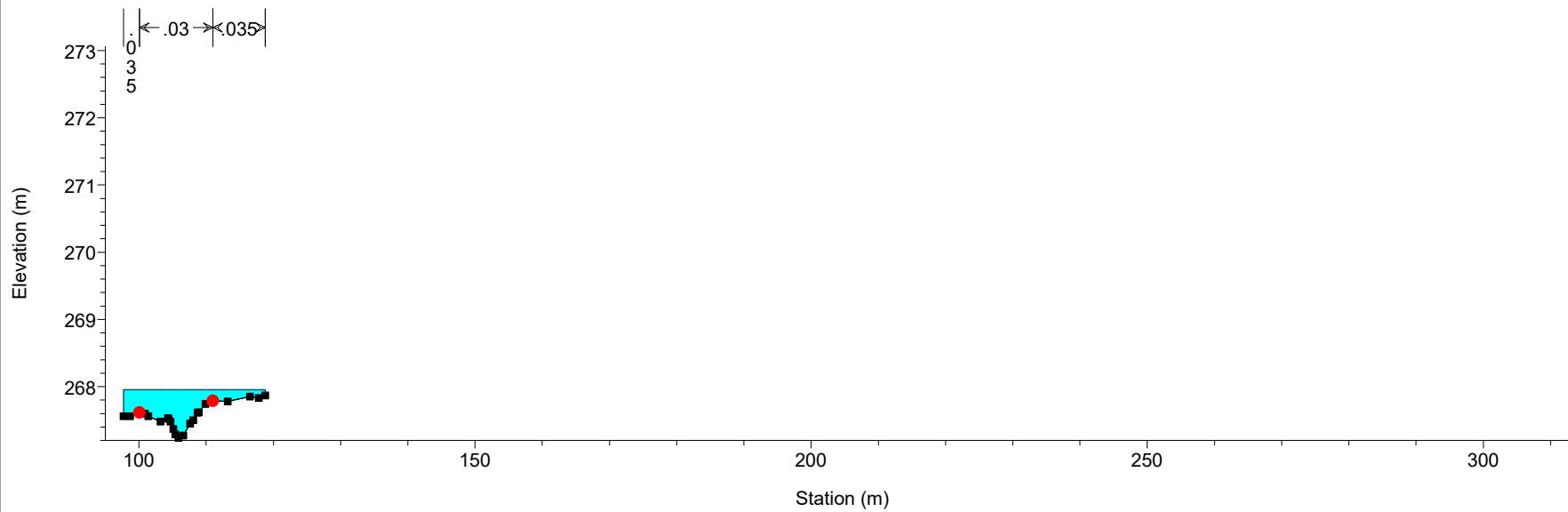


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo

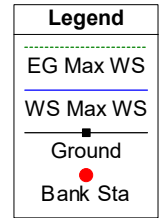
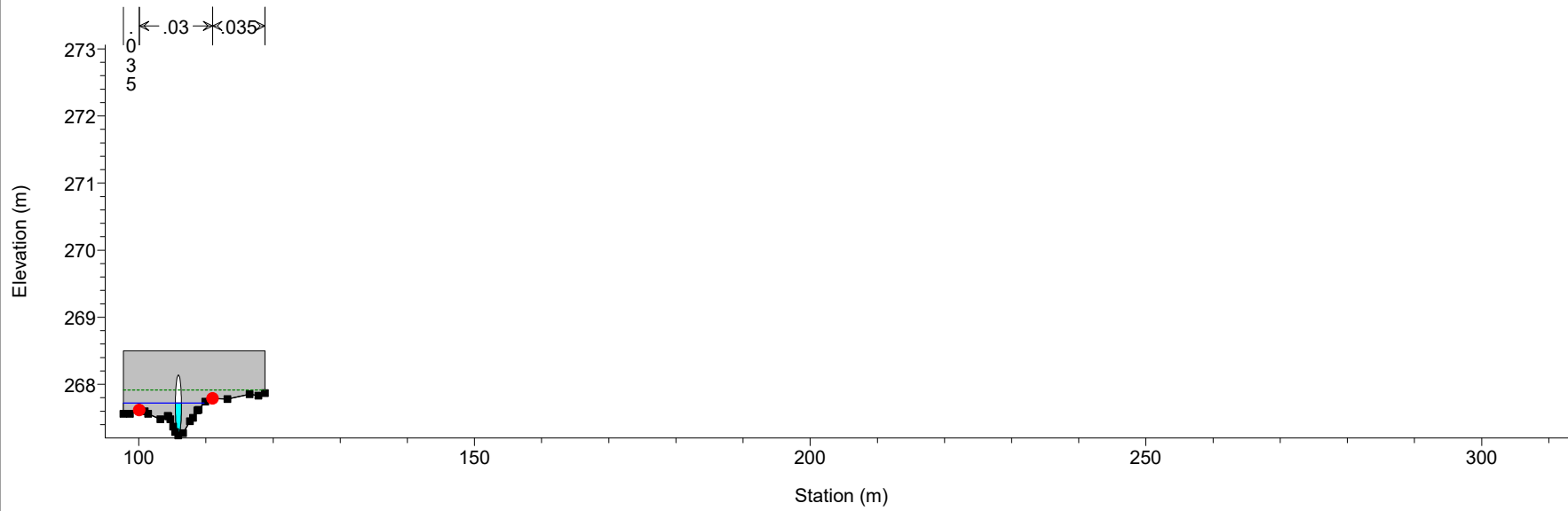


ristagno_rev1 Plan: Q30_definitivo

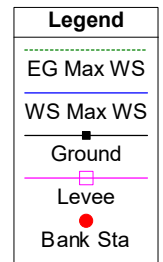
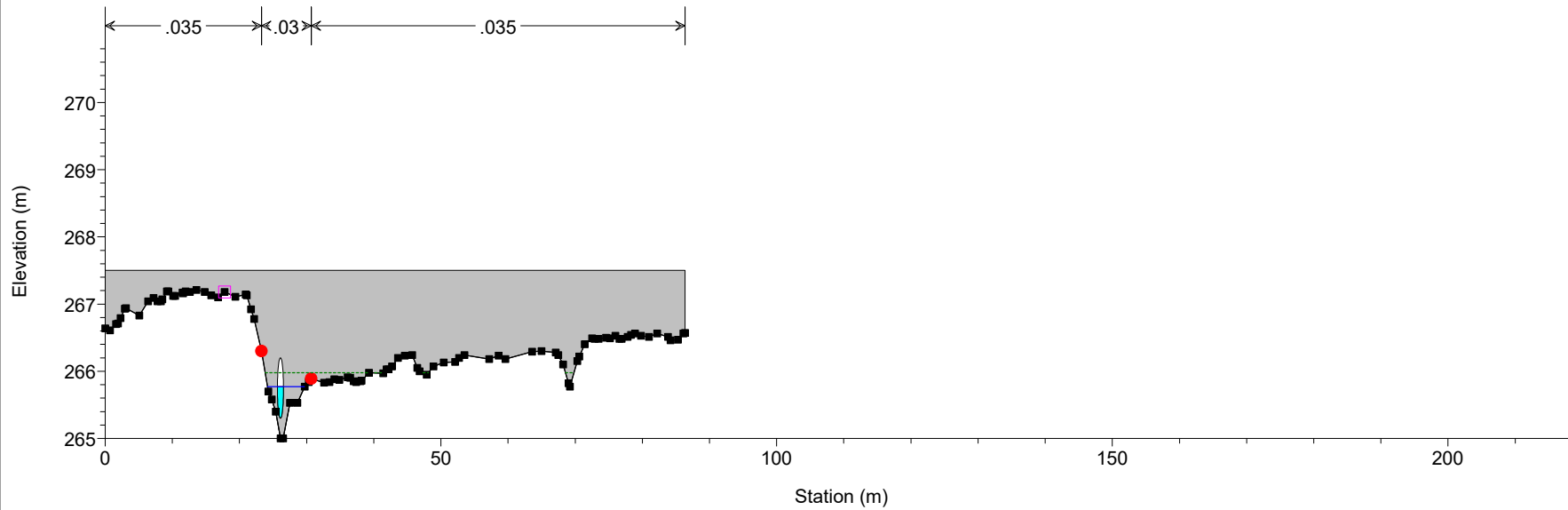


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo

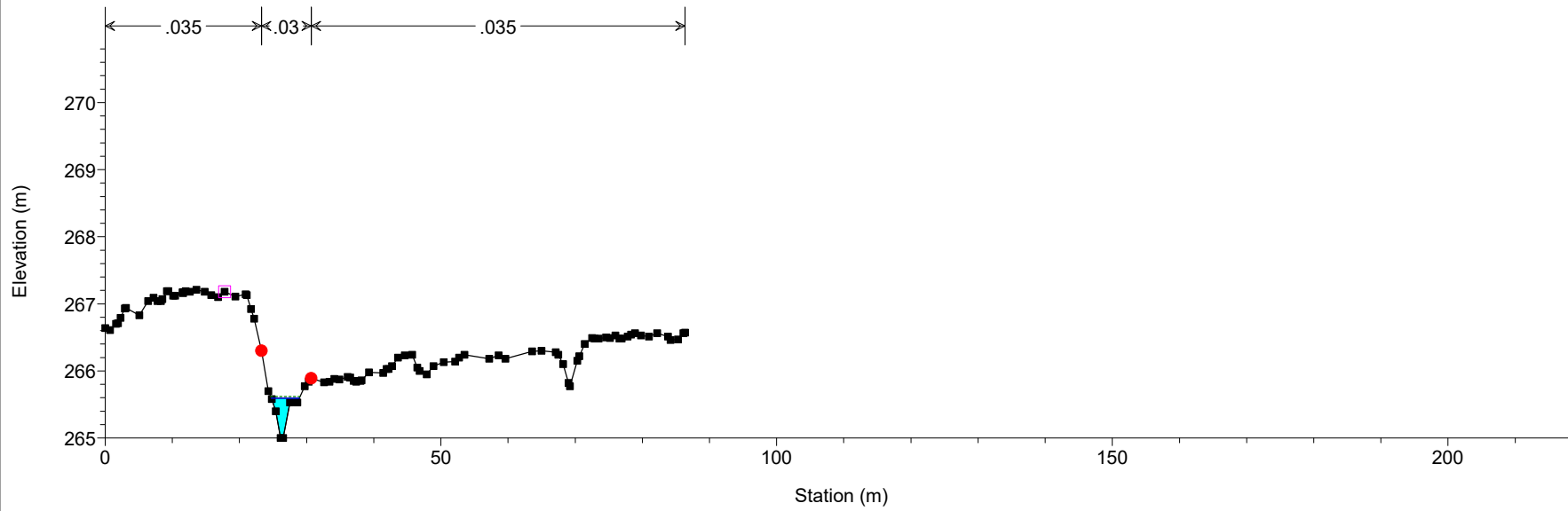


ristagno_rev1 Plan: Q30_definitivo

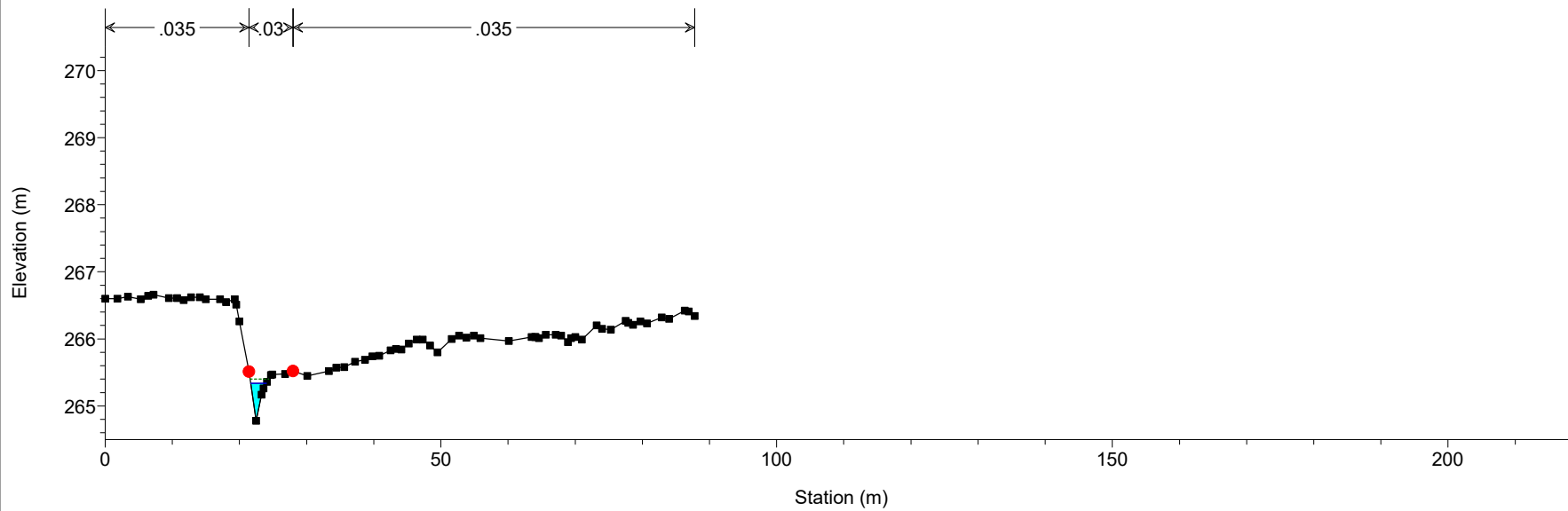


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo

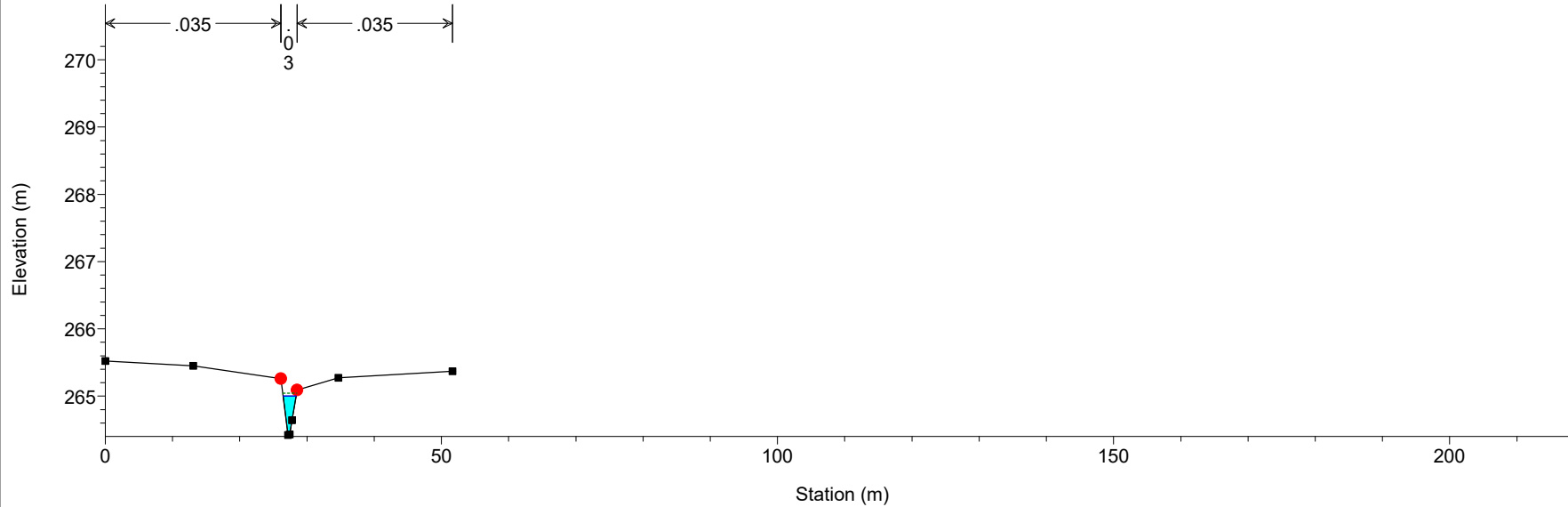


ristagno_rev1 Plan: Q30_definitivo

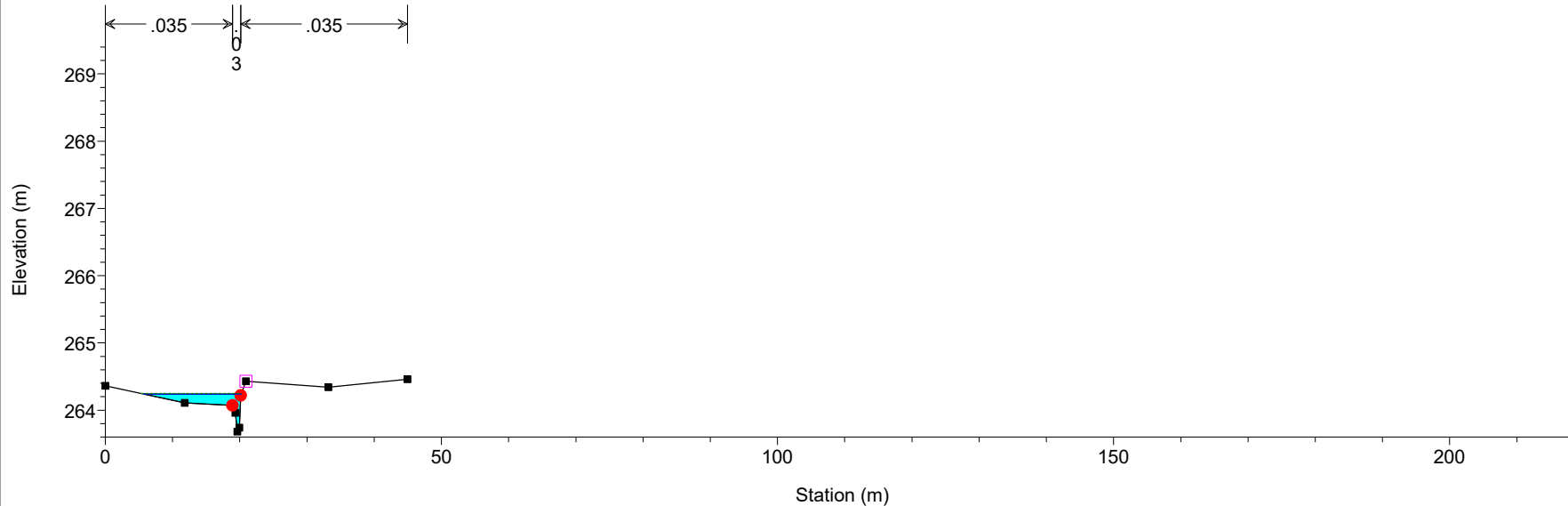


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

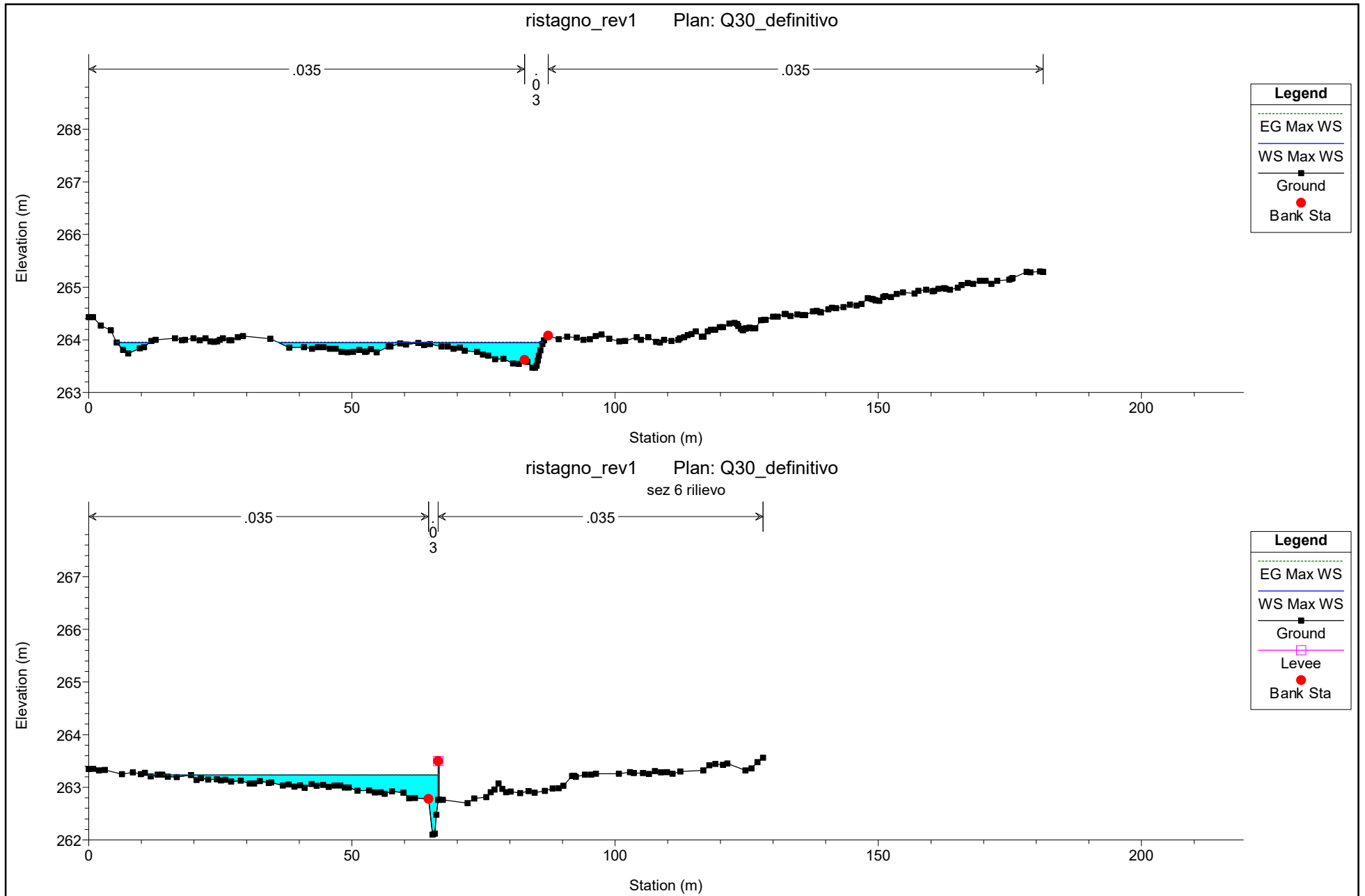
ristagno_rev1 Plan: Q30_definitivo
sez 2 rilievo



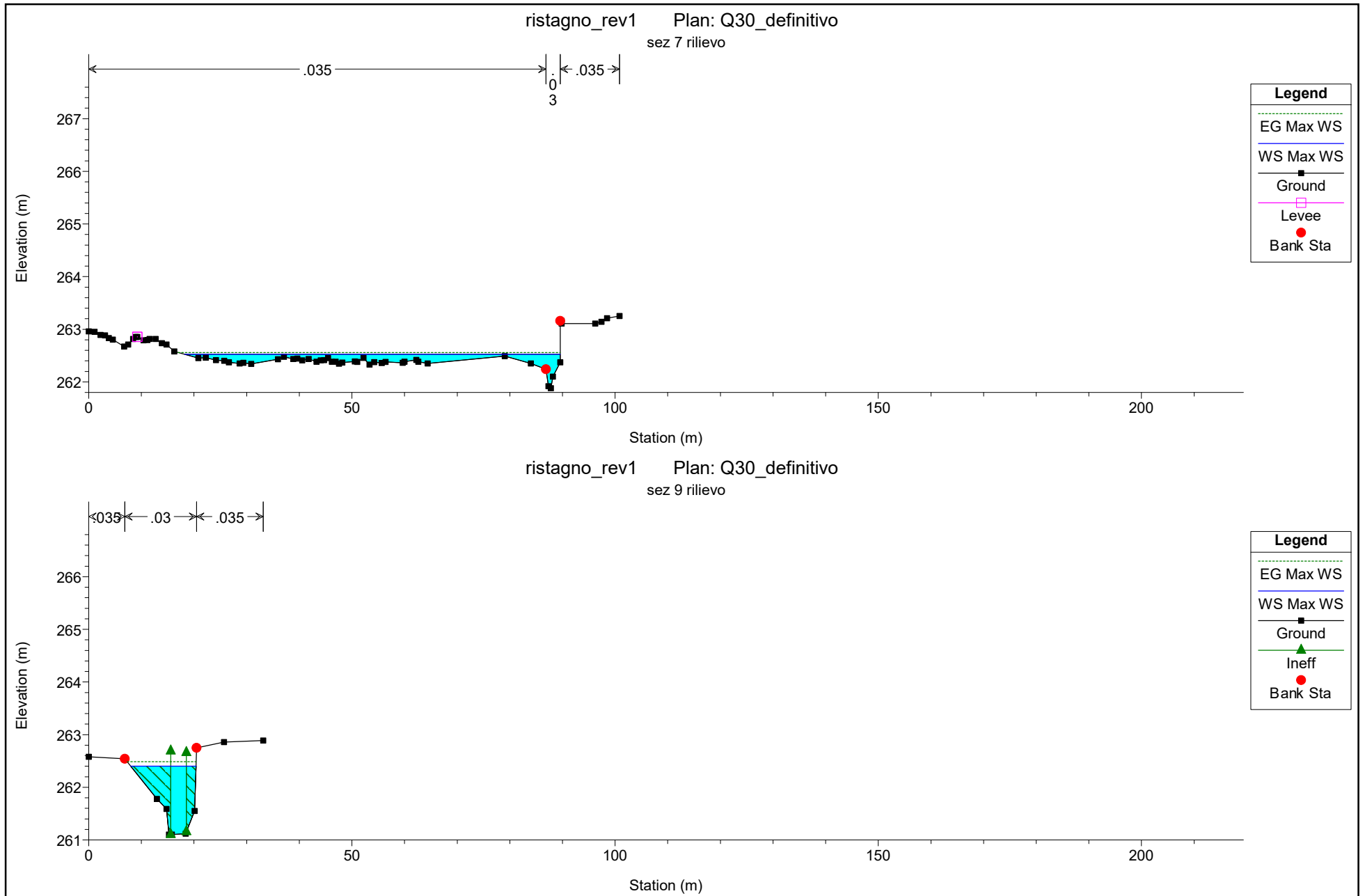
ristagno_rev1 Plan: Q30_definitivo
sez 3 rilievo



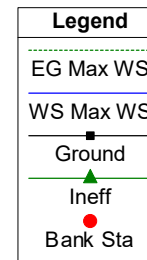
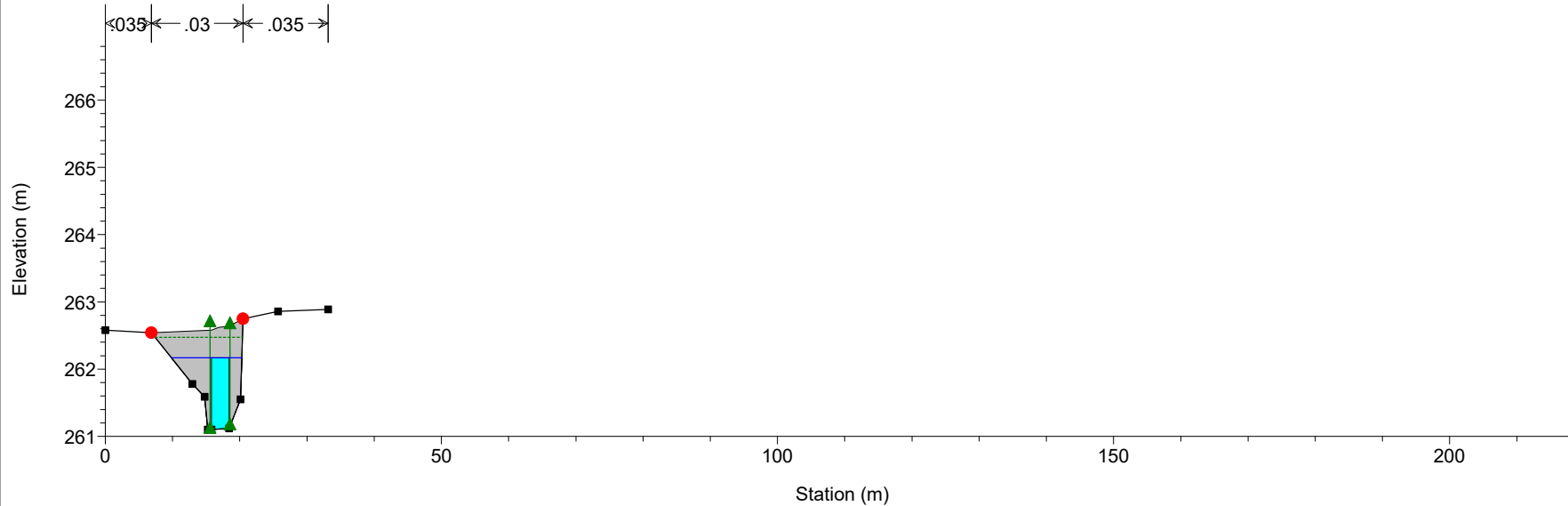
1 cm Horiz. = 10 m 1 cm Vert. = 1 m



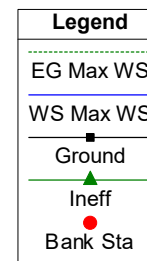
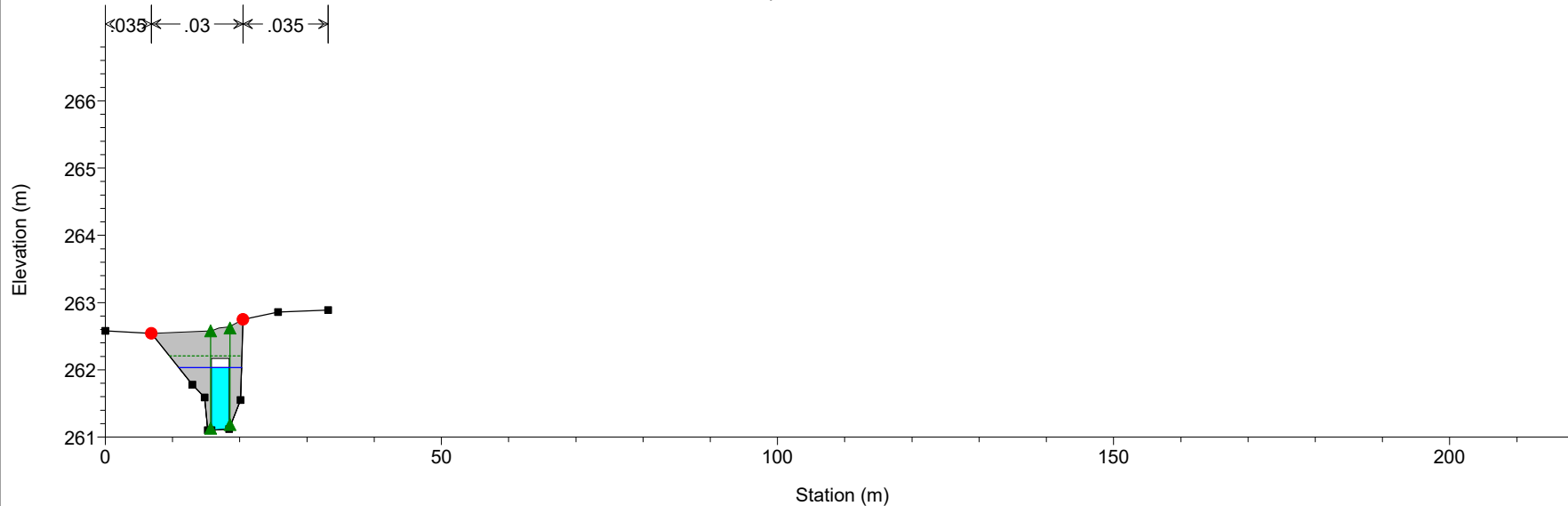
1 cm Horiz. = 10 m 1 cm Vert. = 1 m



ristagno_rev1 Plan: Q30_definitivo
 ponte su via dei Boschi

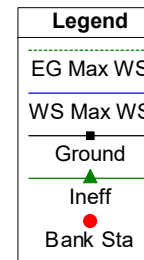
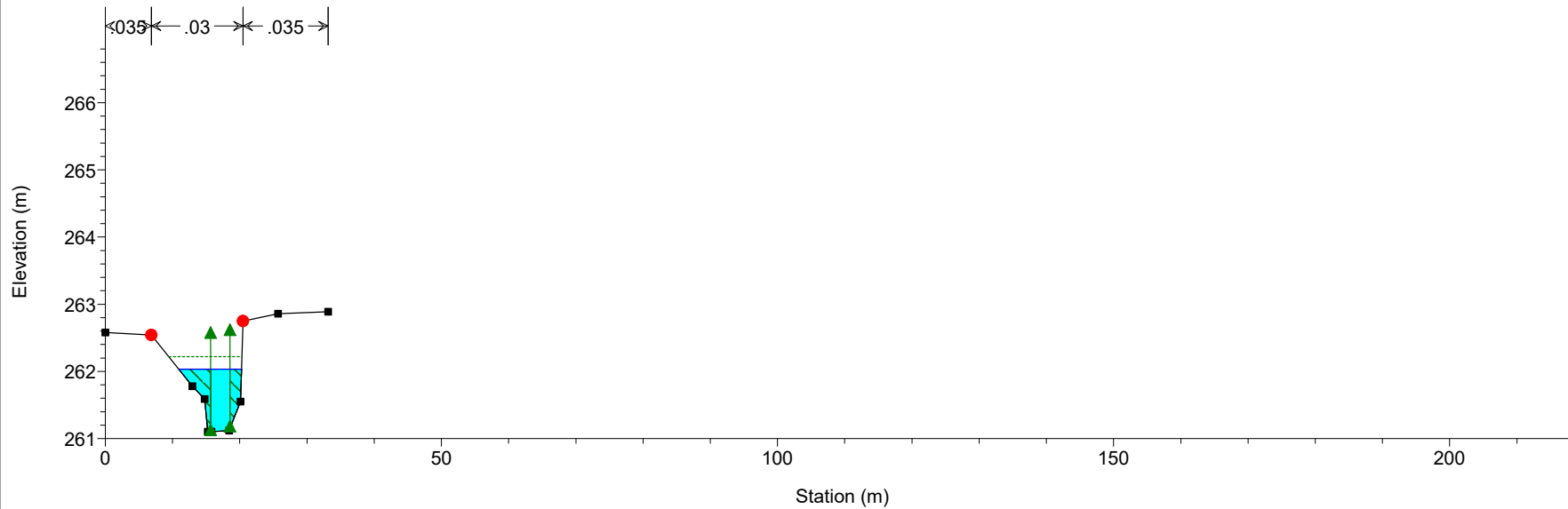


ristagno_rev1 Plan: Q30_definitivo
 ponte su via dei Boschi

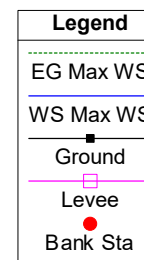
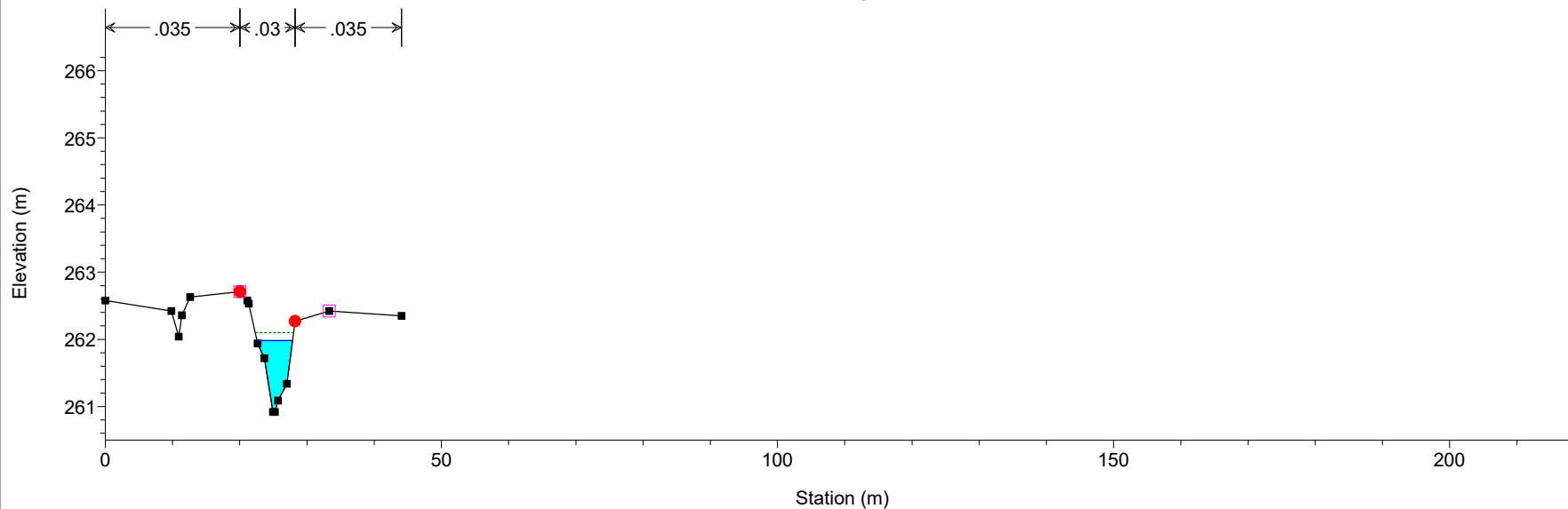


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo
sez 9 rilievo

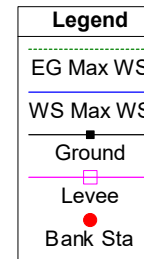
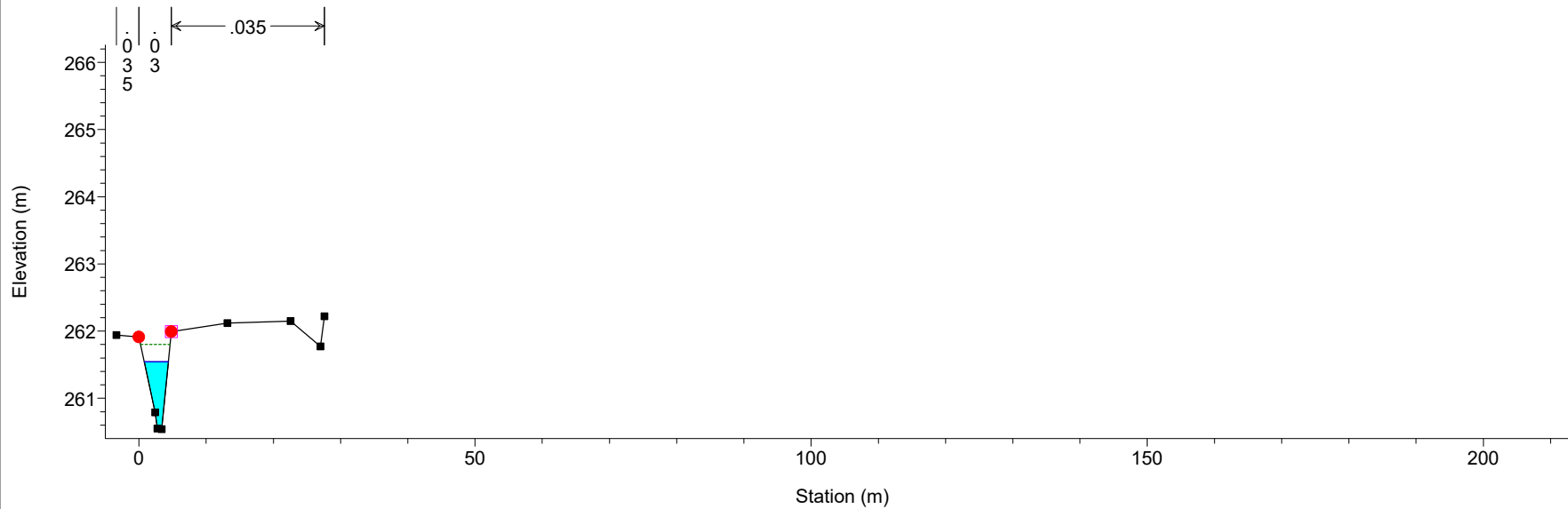


ristagno_rev1 Plan: Q30_definitivo
sez 10 rilievo

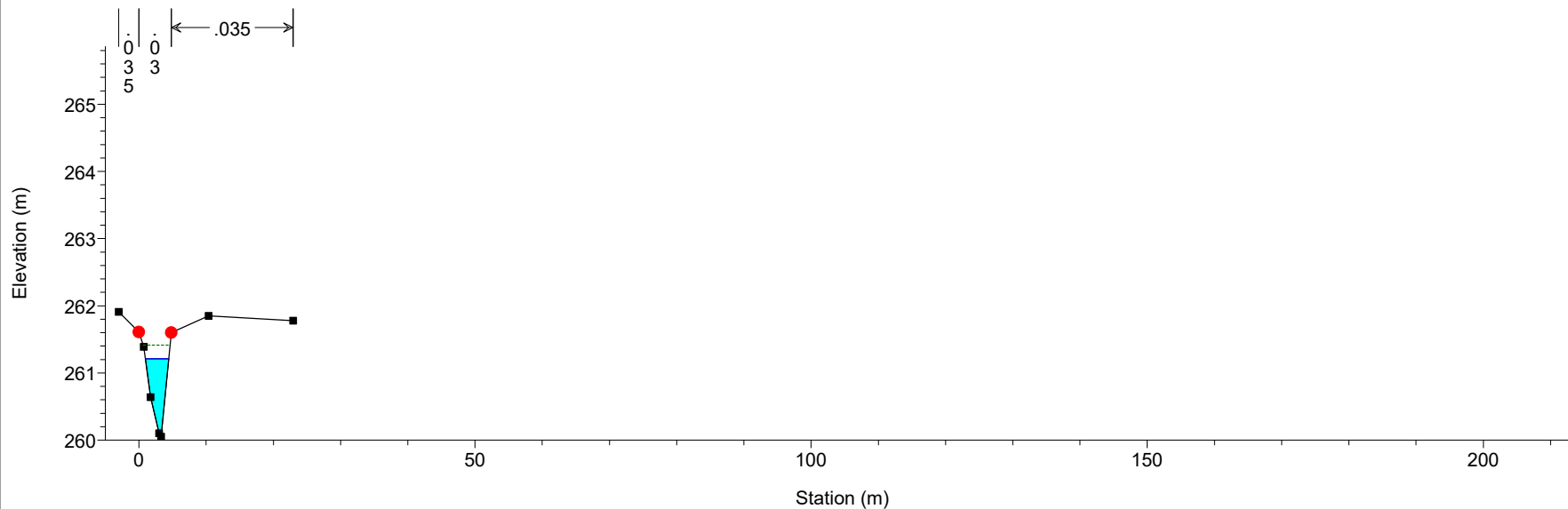


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo
sez 11 rilievo

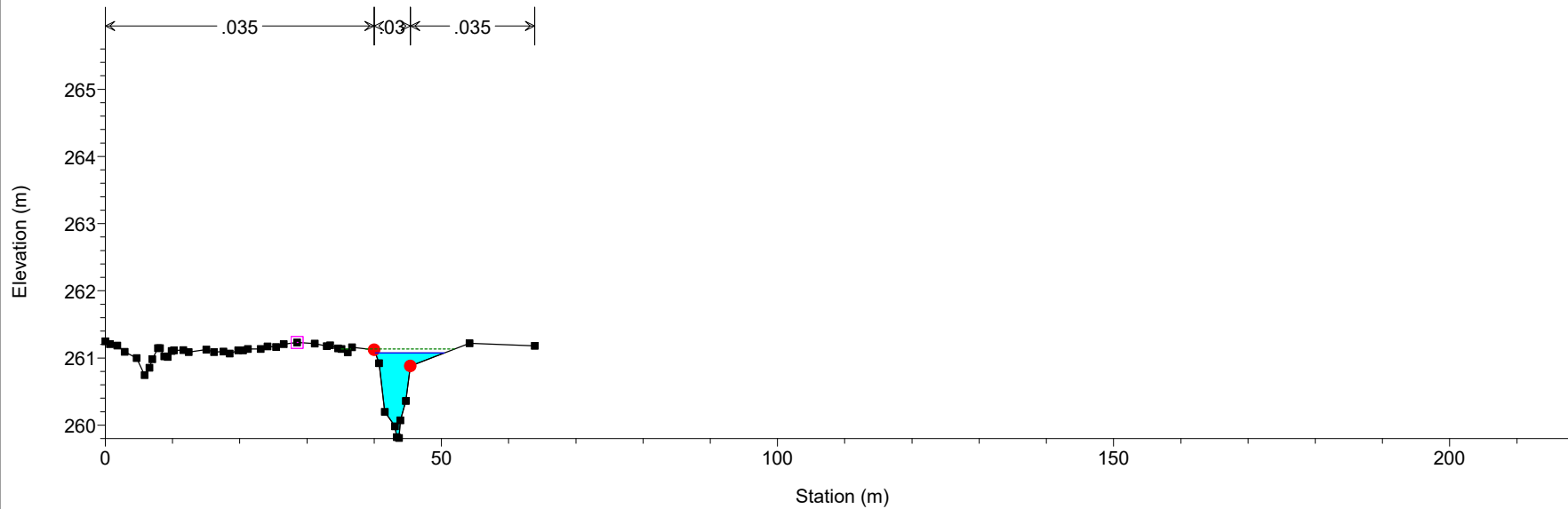


ristagno_rev1 Plan: Q30_definitivo
sez 12 rilievo

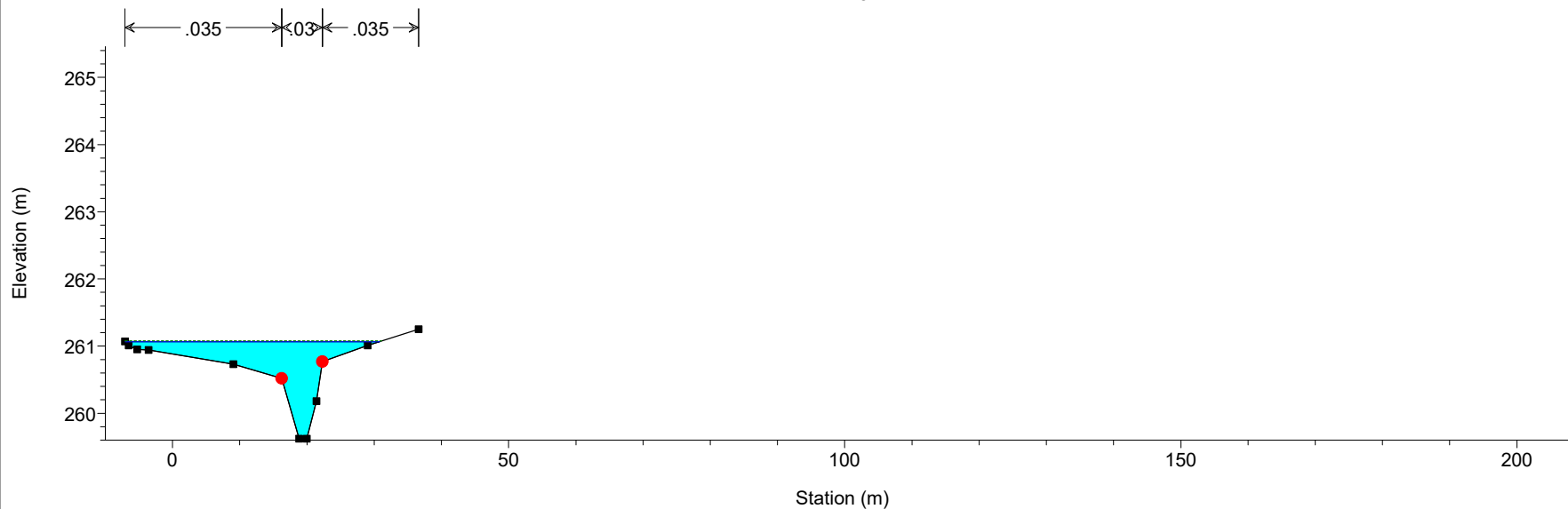


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo
sez 13 rilievo

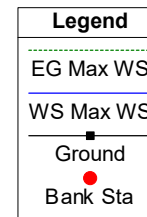
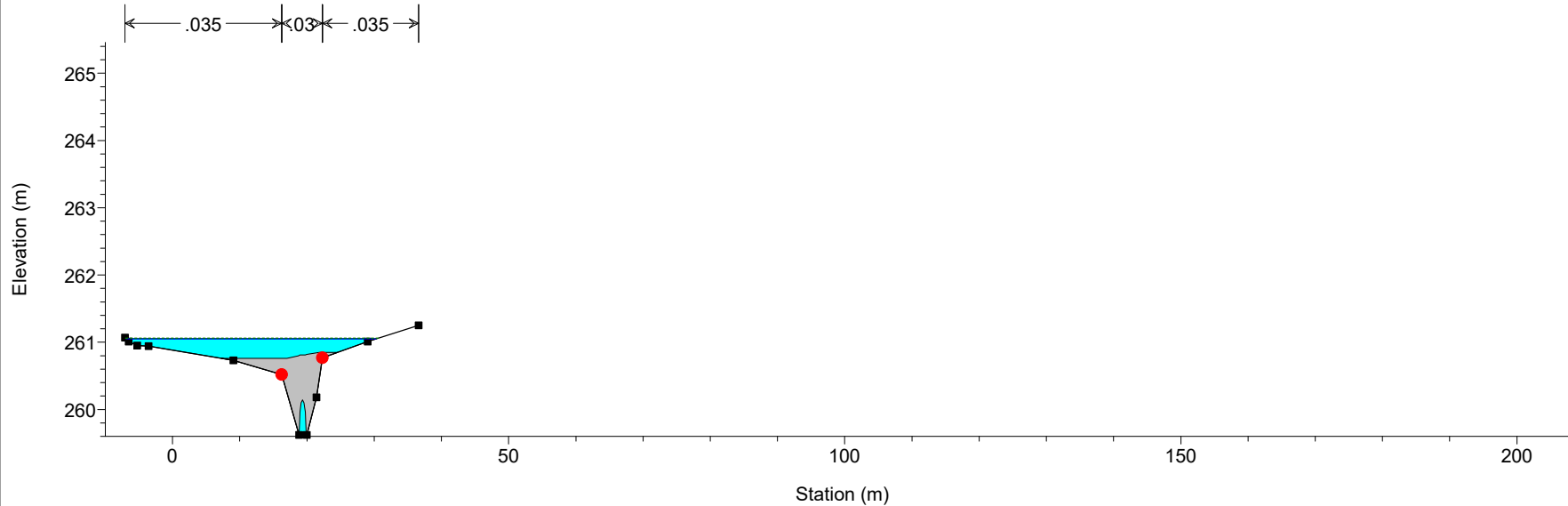


ristagno_rev1 Plan: Q30_definitivo
sez 15 rilievo

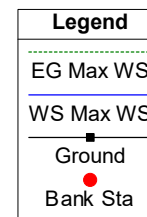
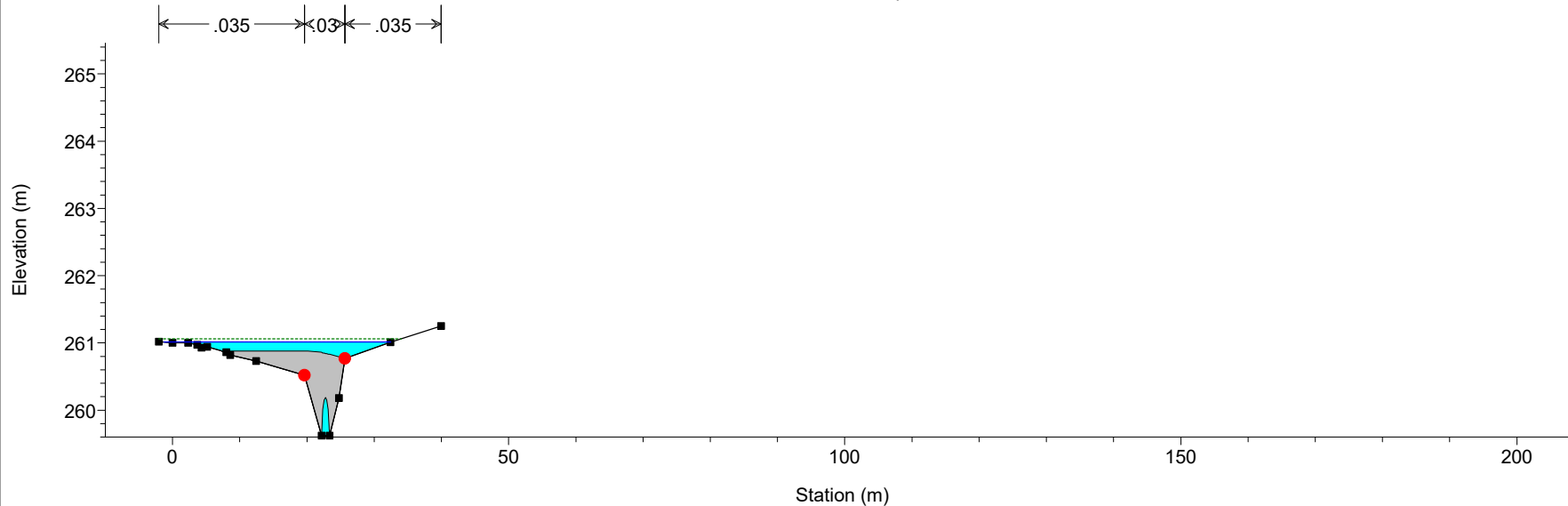


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo
tombino campestre

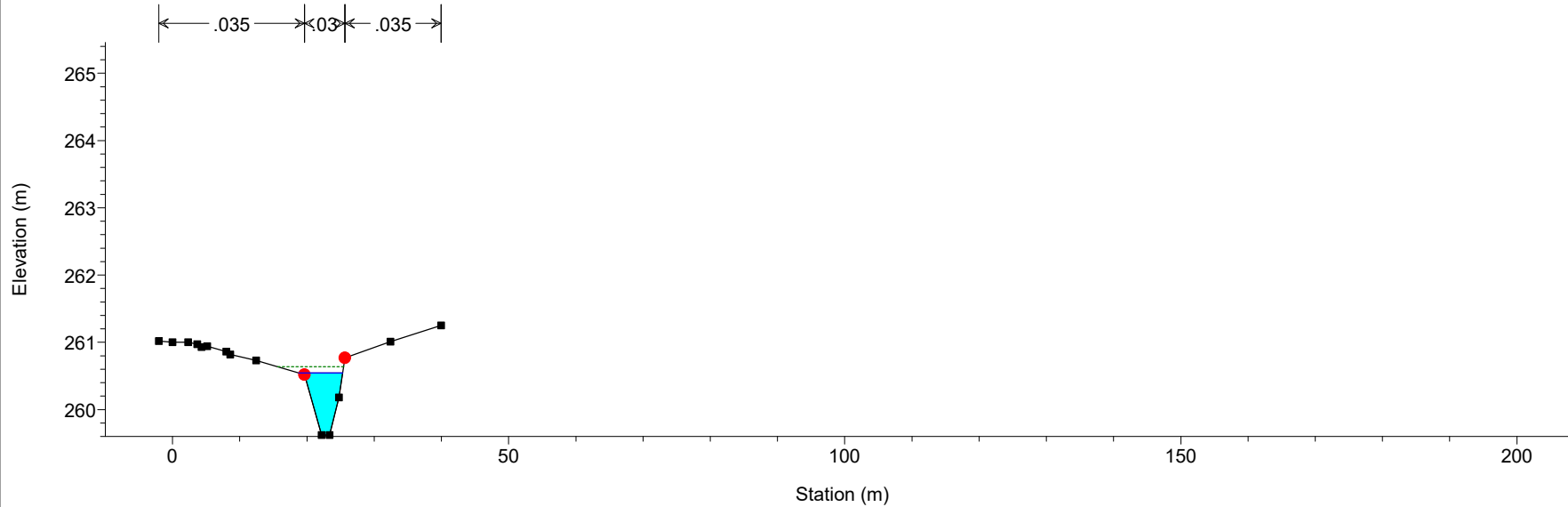


ristagno_rev1 Plan: Q30_definitivo
tombino campestre

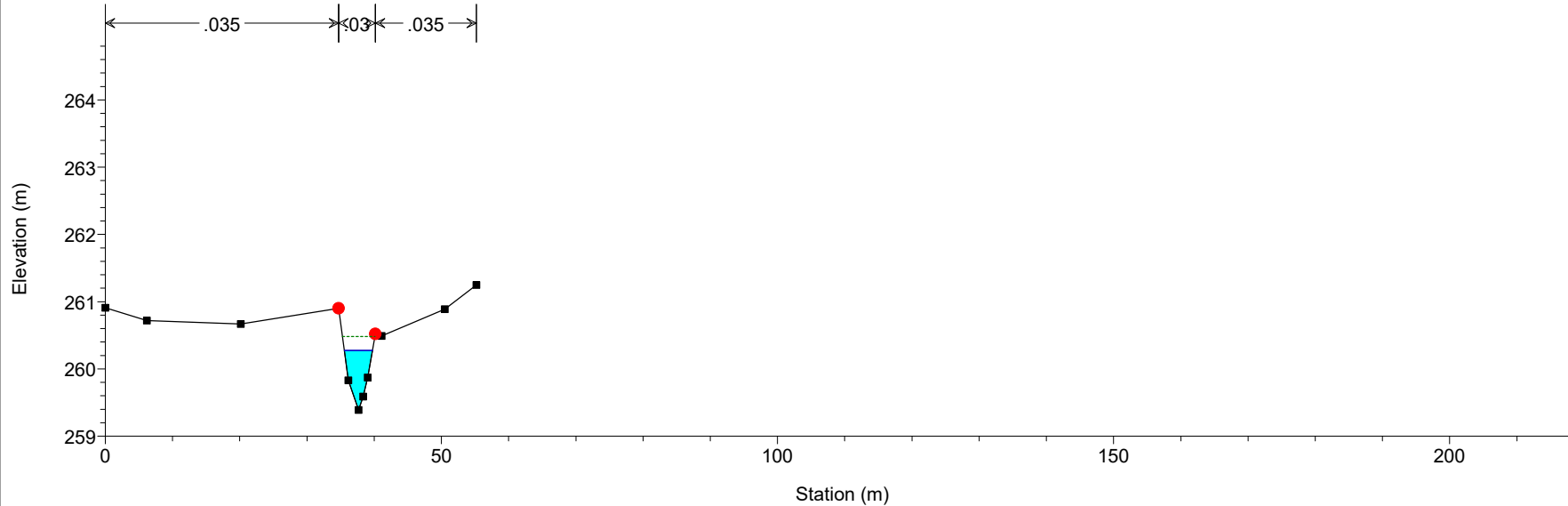


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo
sez 15 rilievo

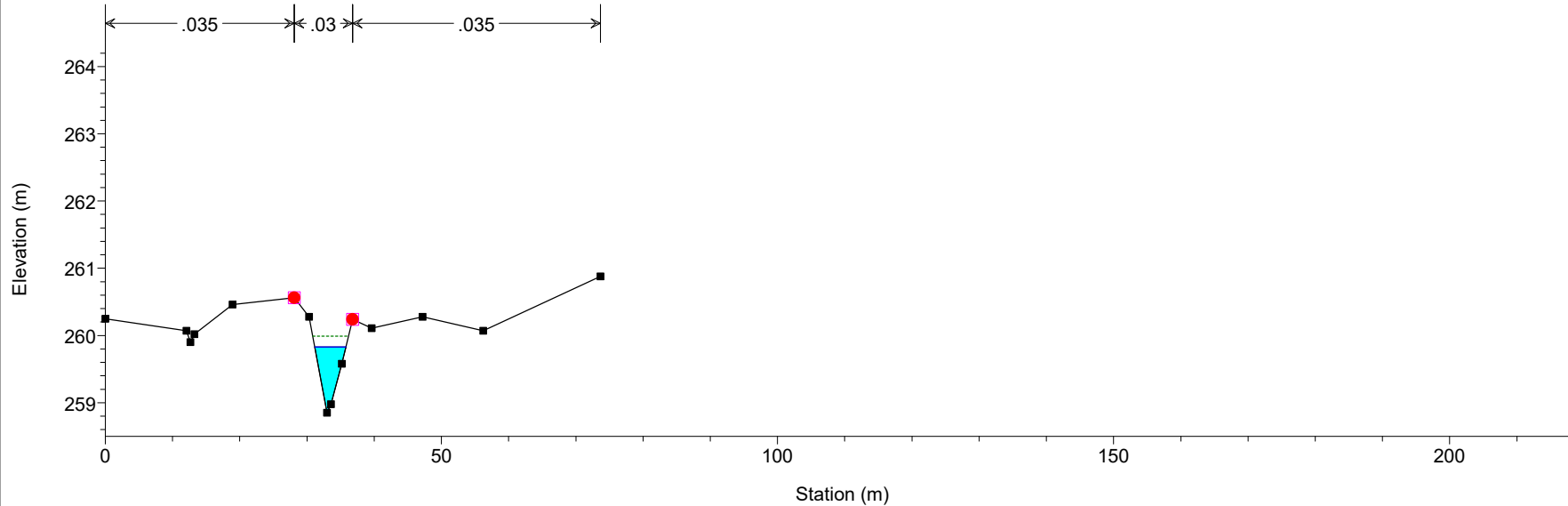


ristagno_rev1 Plan: Q30_definitivo
sez 16 rilievo

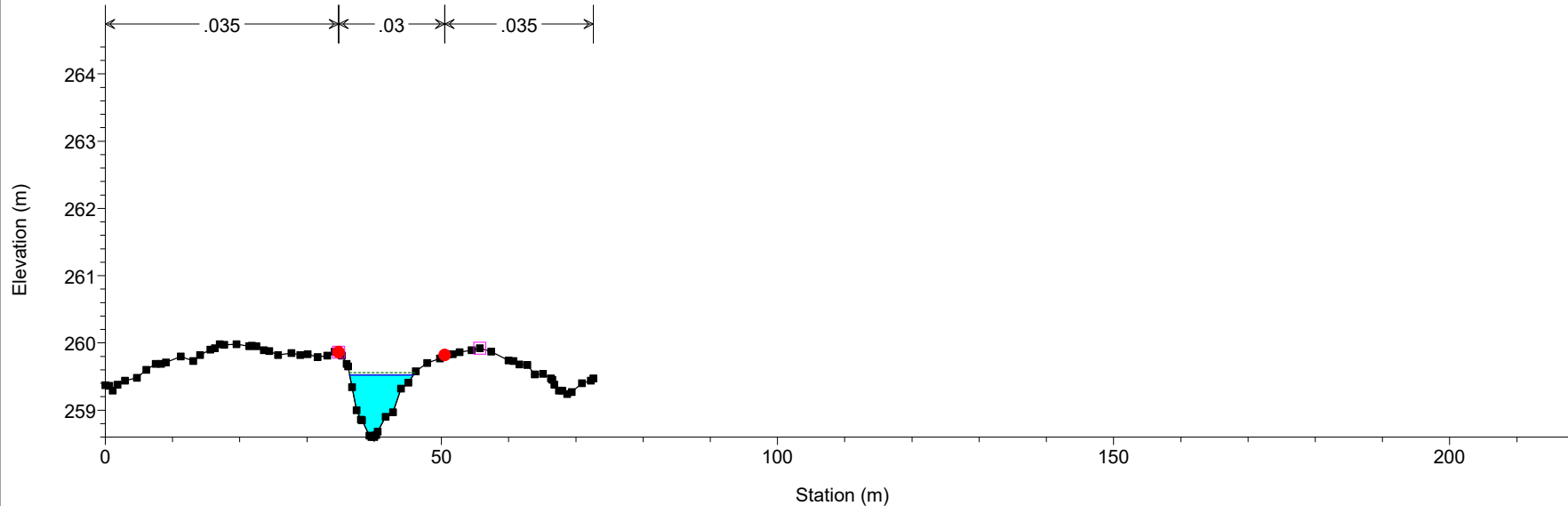


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo
sez 17 rilievo

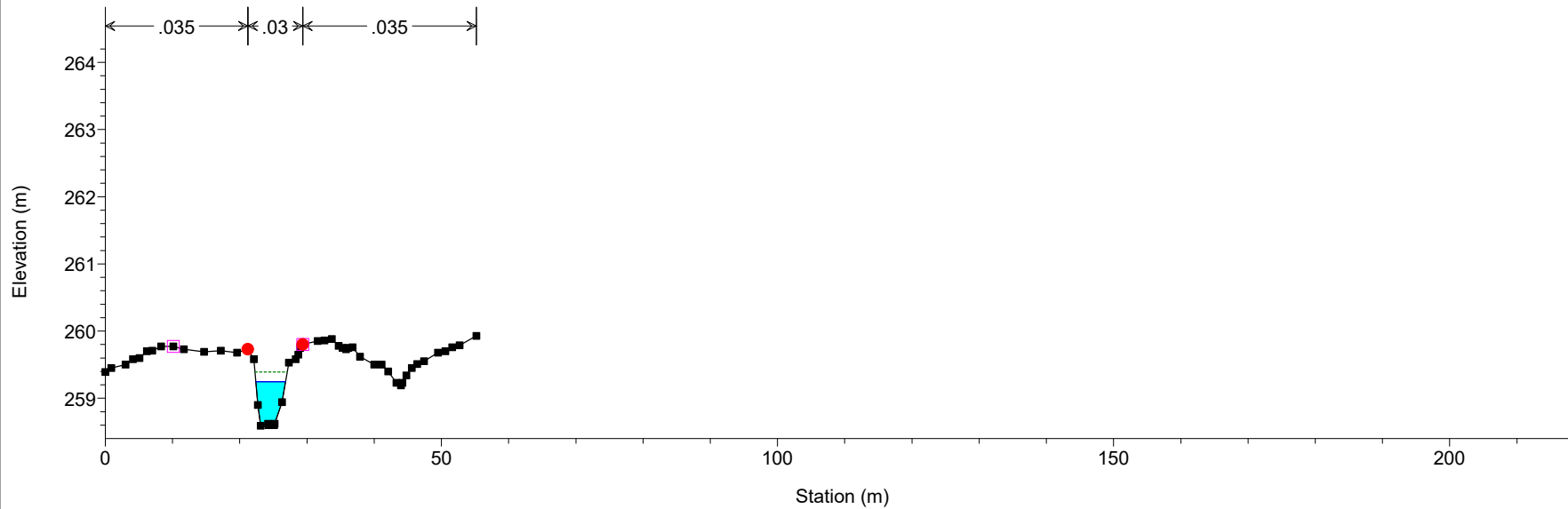


ristagno_rev1 Plan: Q30_definitivo
sez 18 rilievo

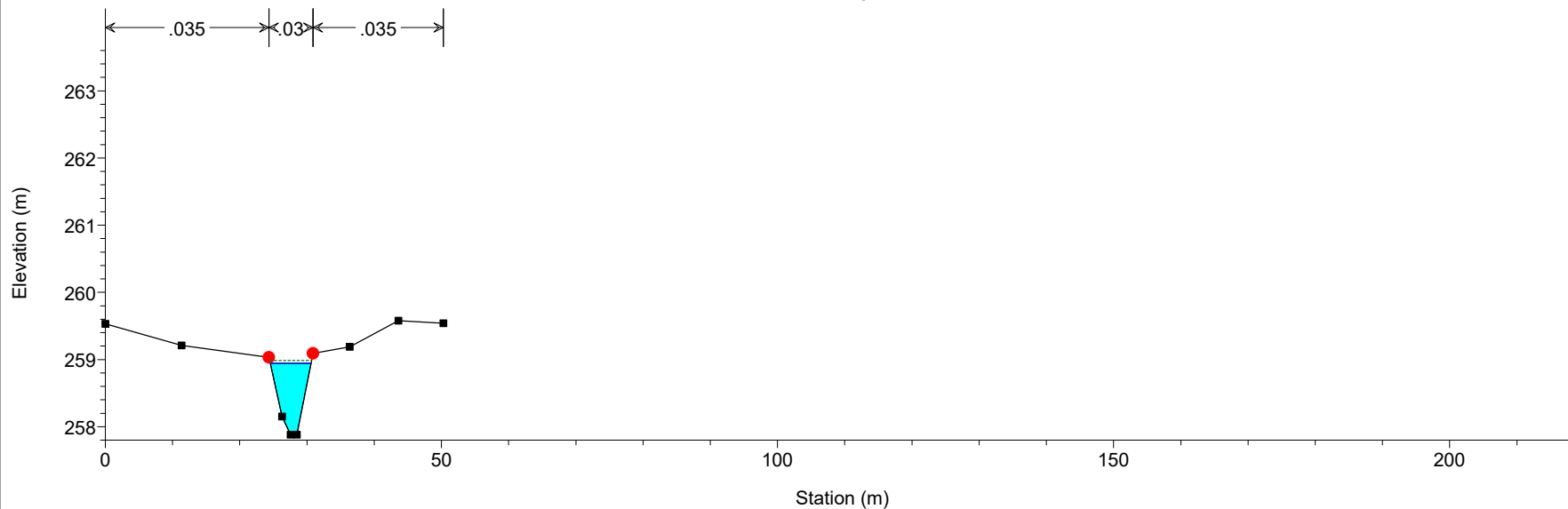


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo
sez 19 rilievo

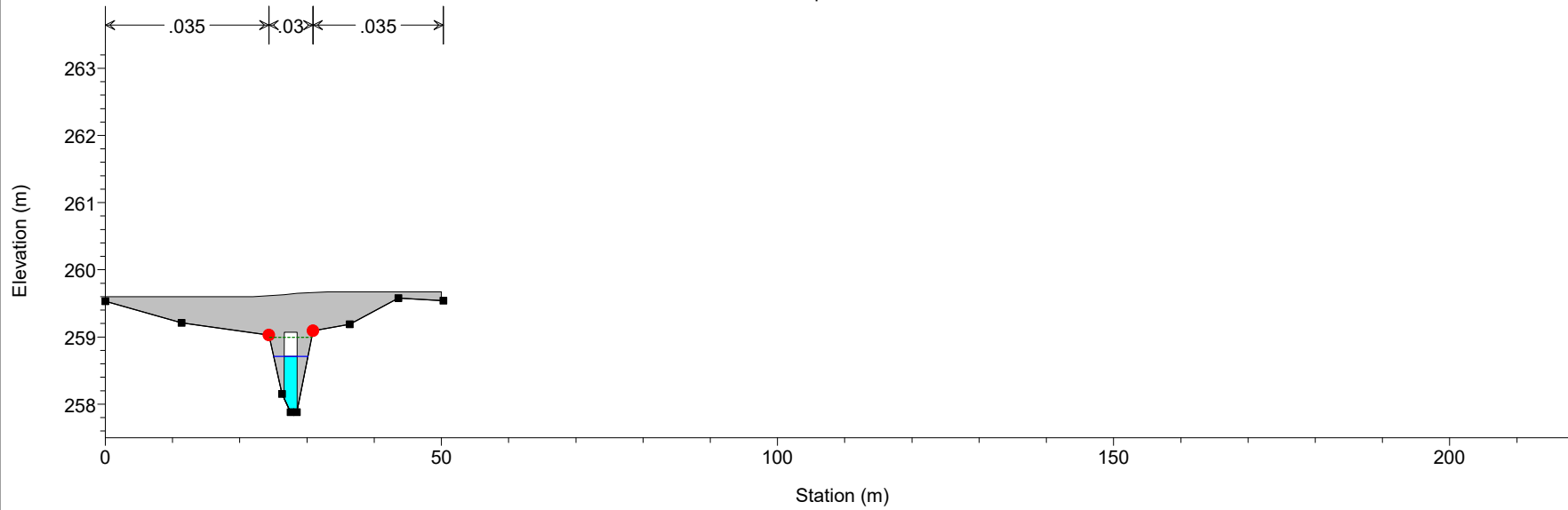


ristagno_rev1 Plan: Q30_definitivo
sez 20 rilievo

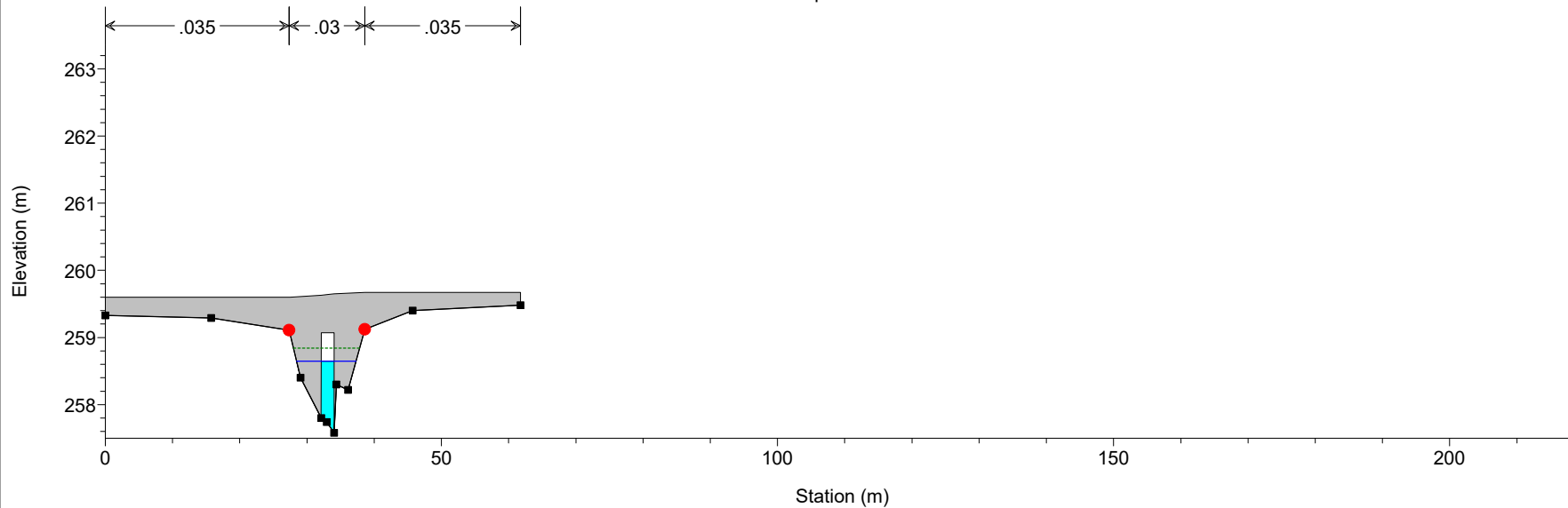


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo
ponte SP 22

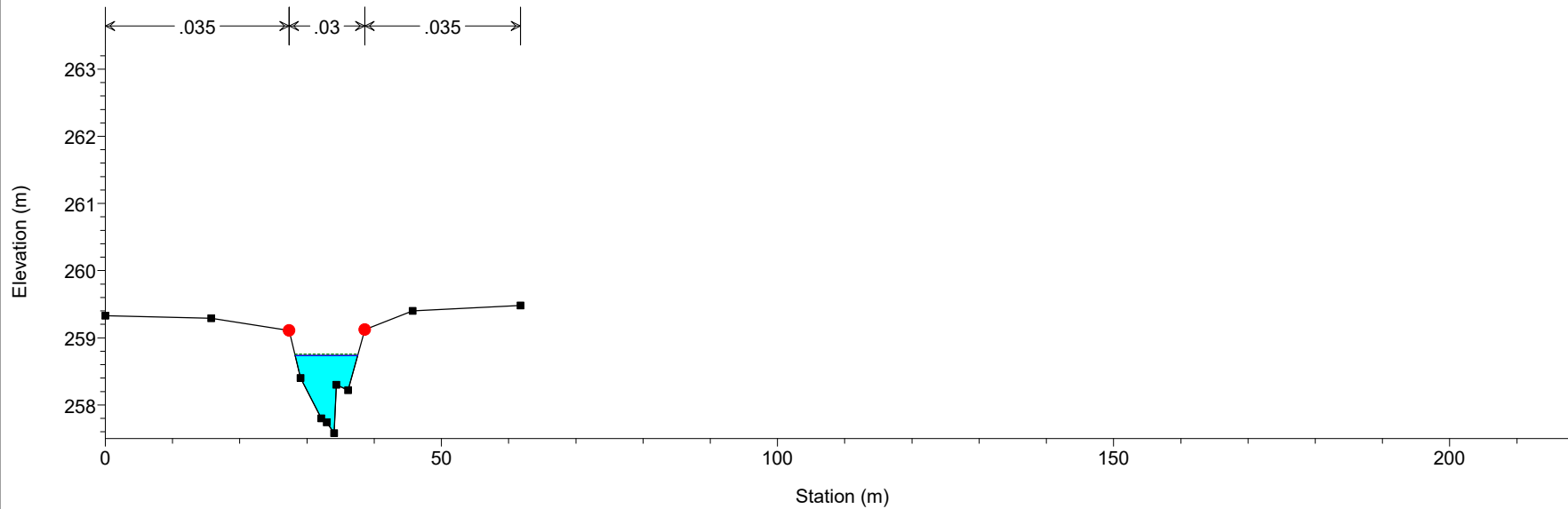


ristagno_rev1 Plan: Q30_definitivo
ponte SP 22



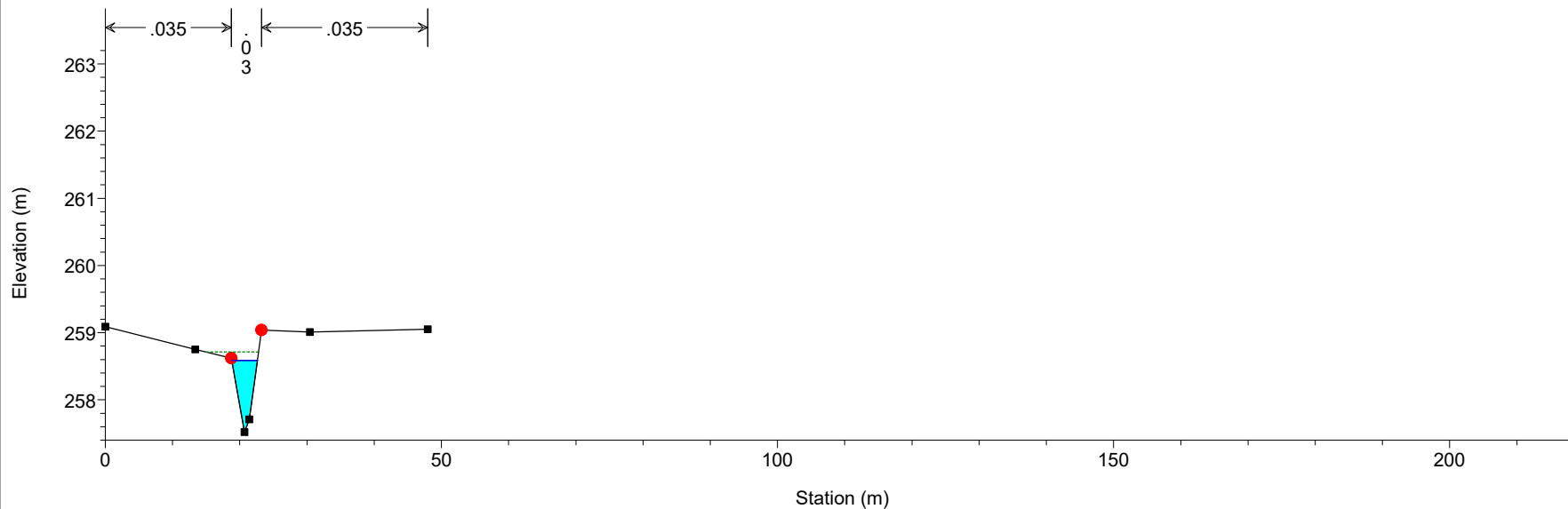
1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo
sez 21 rilievo



Legend	
---	EG Max WS
---	WS Max WS
■	Ground
●	Bank Sta

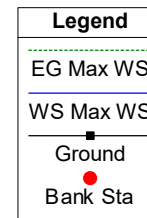
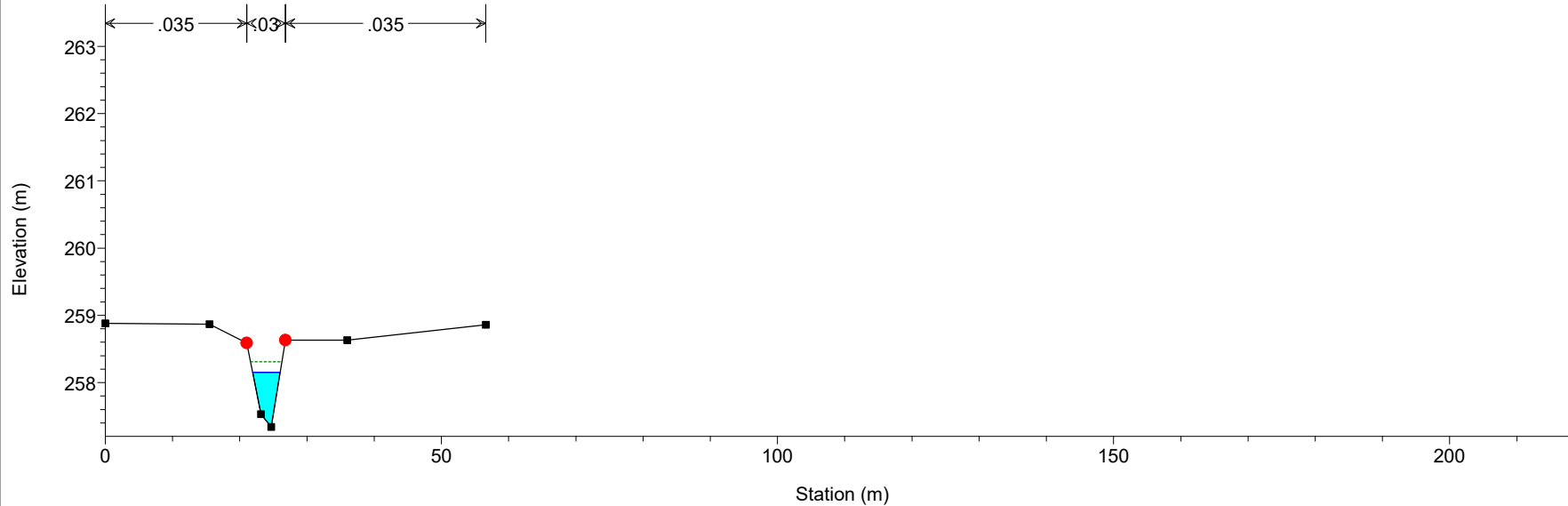
ristagno_rev1 Plan: Q30_definitivo
sez 22 rilievo



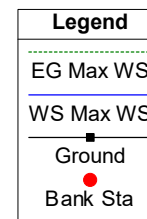
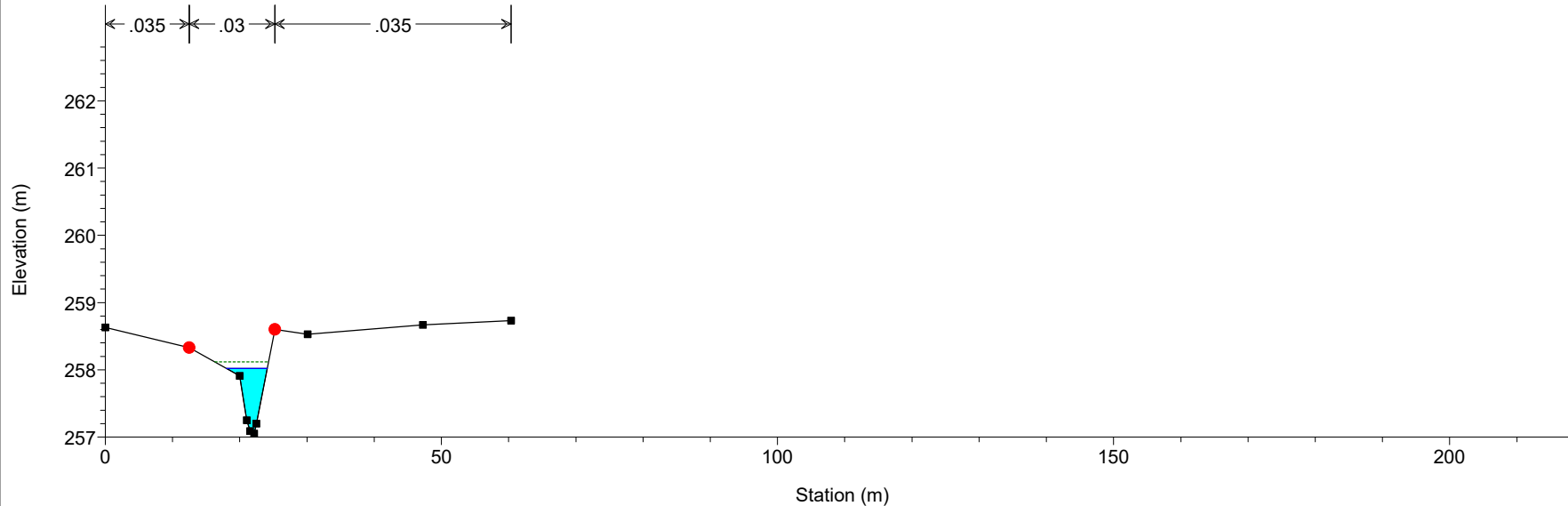
Legend	
---	EG Max WS
---	WS Max WS
■	Ground
●	Bank Sta

1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo
sez 23 rilievo

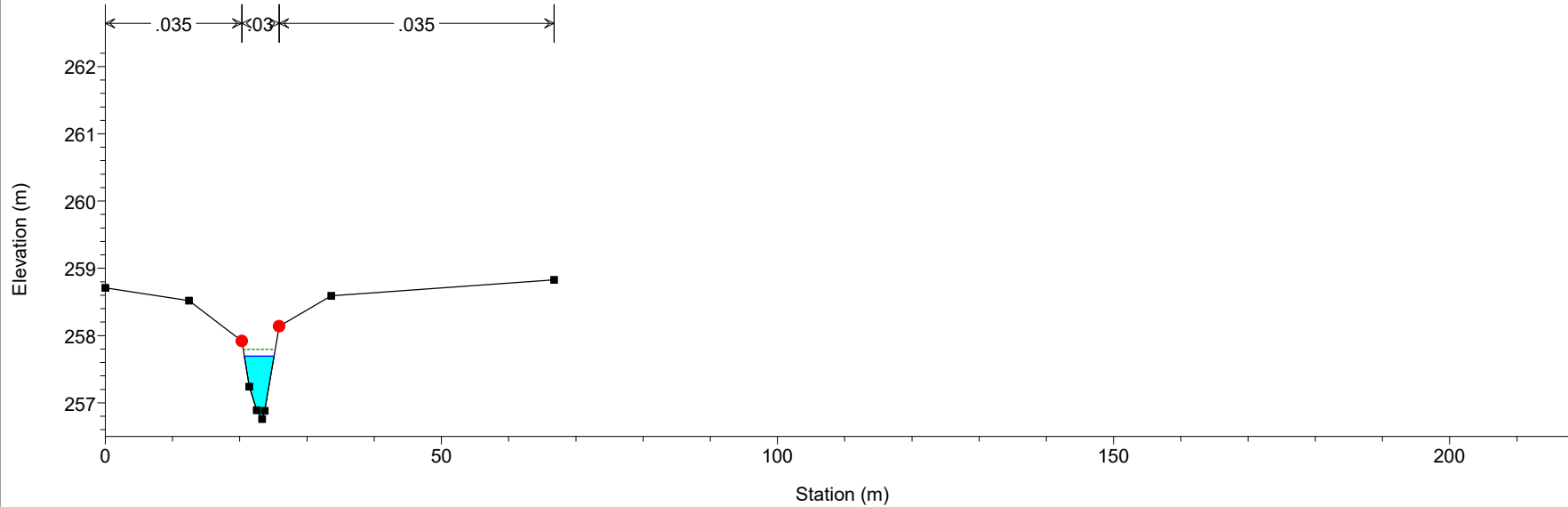


ristagno_rev1 Plan: Q30_definitivo
sez 24 rilievo

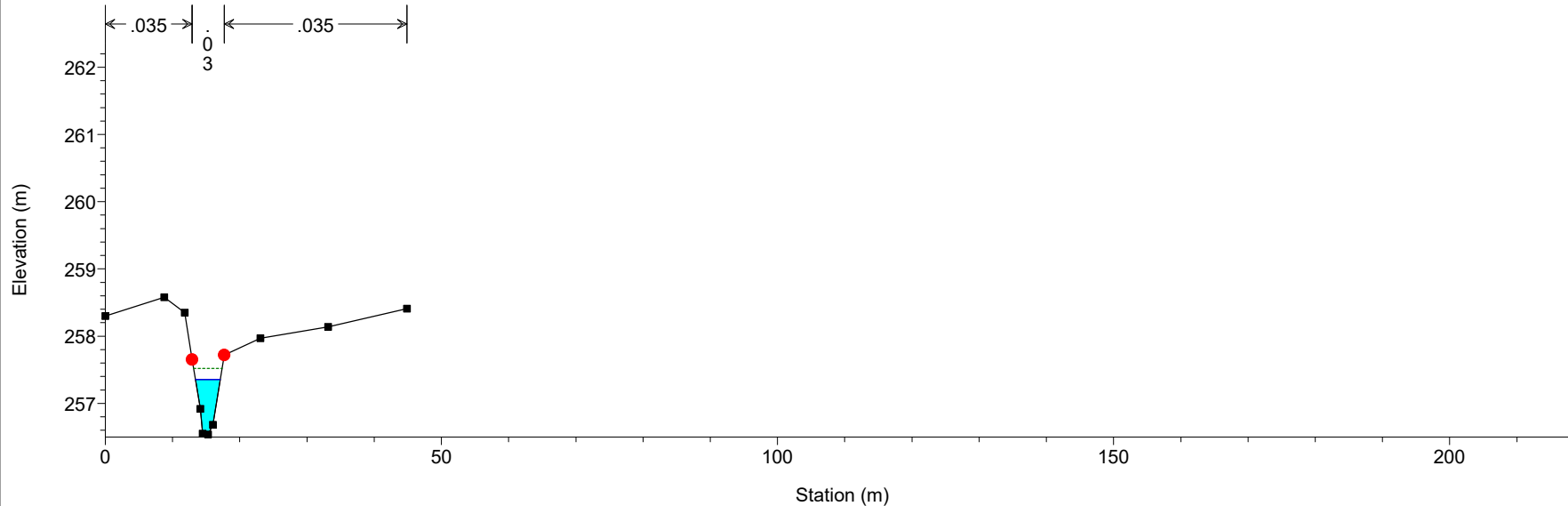


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo
sez 25 rilievo

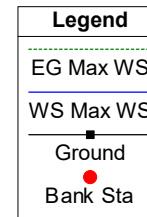
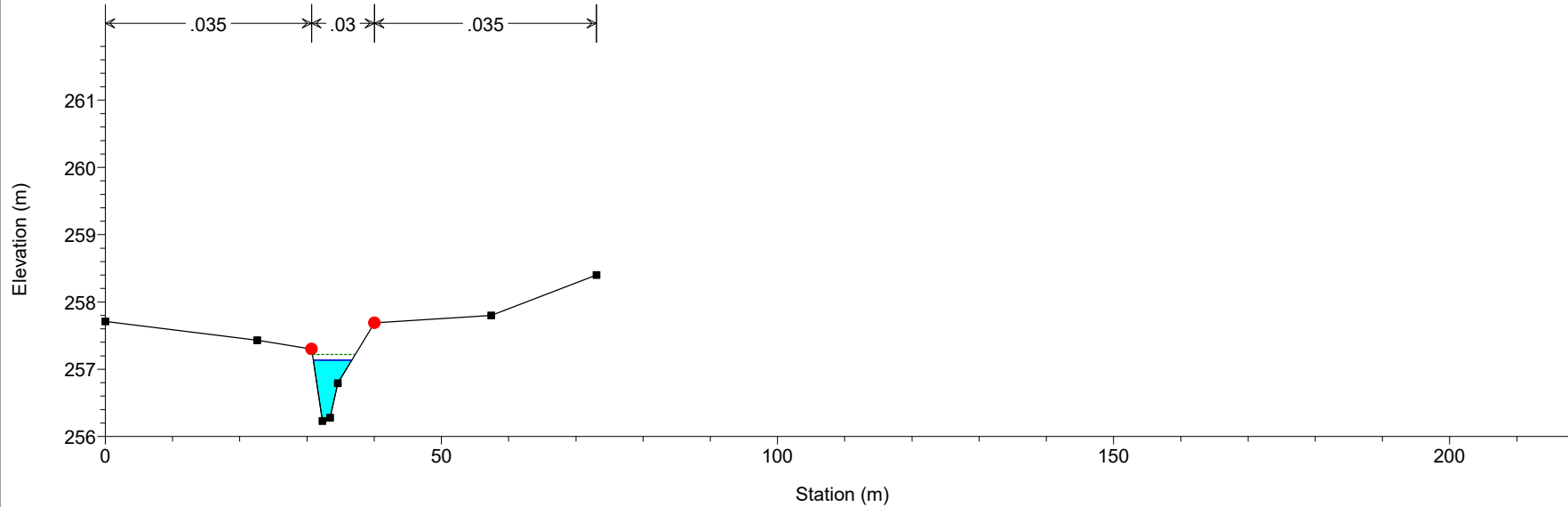


ristagno_rev1 Plan: Q30_definitivo
sez 26 rilievo

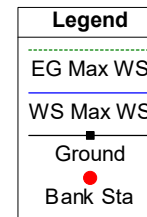
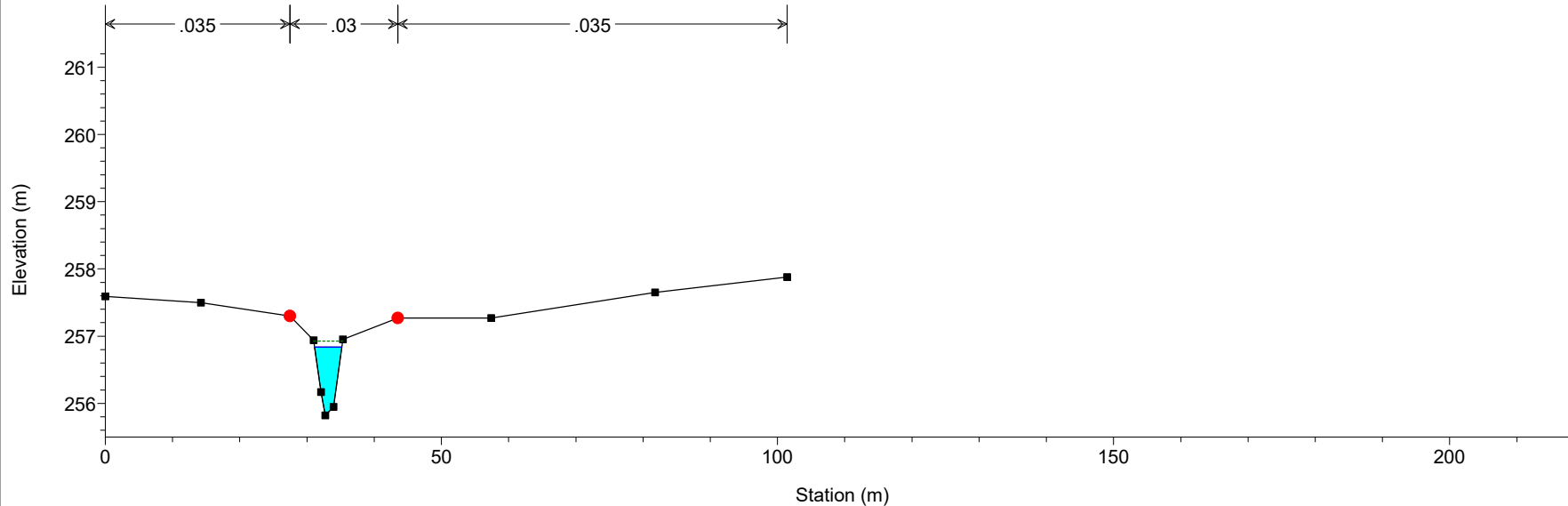


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo
sez 27 rilievo

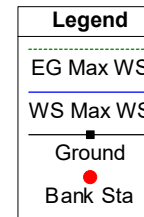
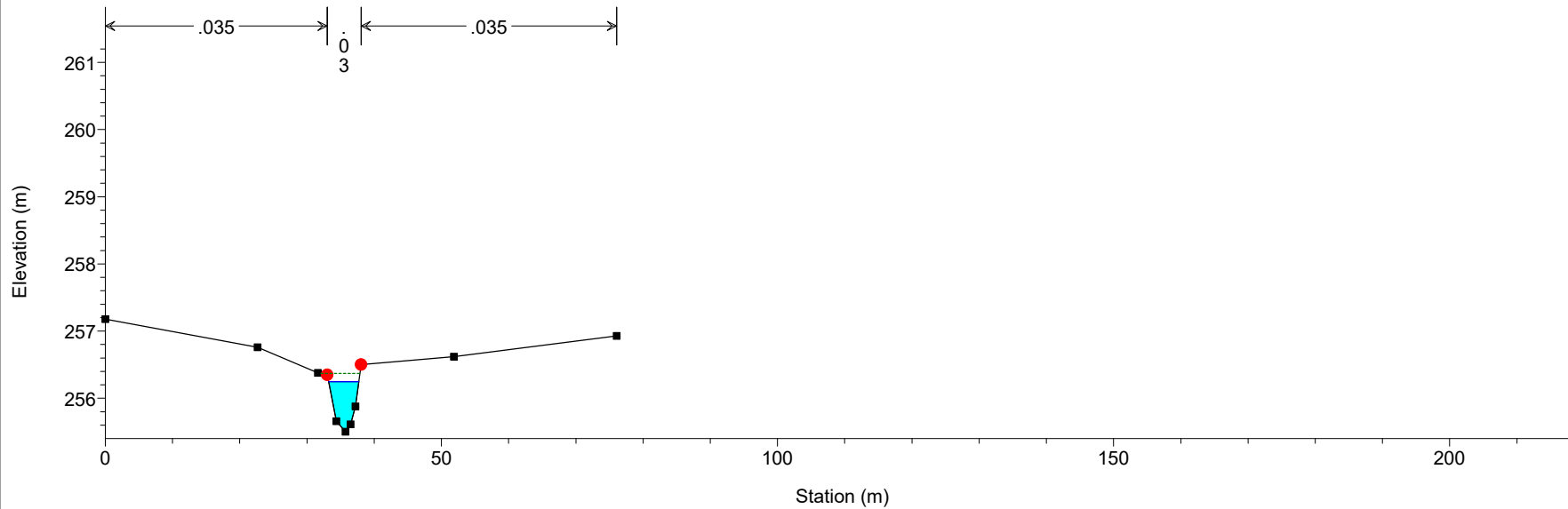


ristagno_rev1 Plan: Q30_definitivo
sez 28 rilievo

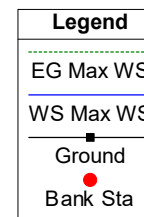
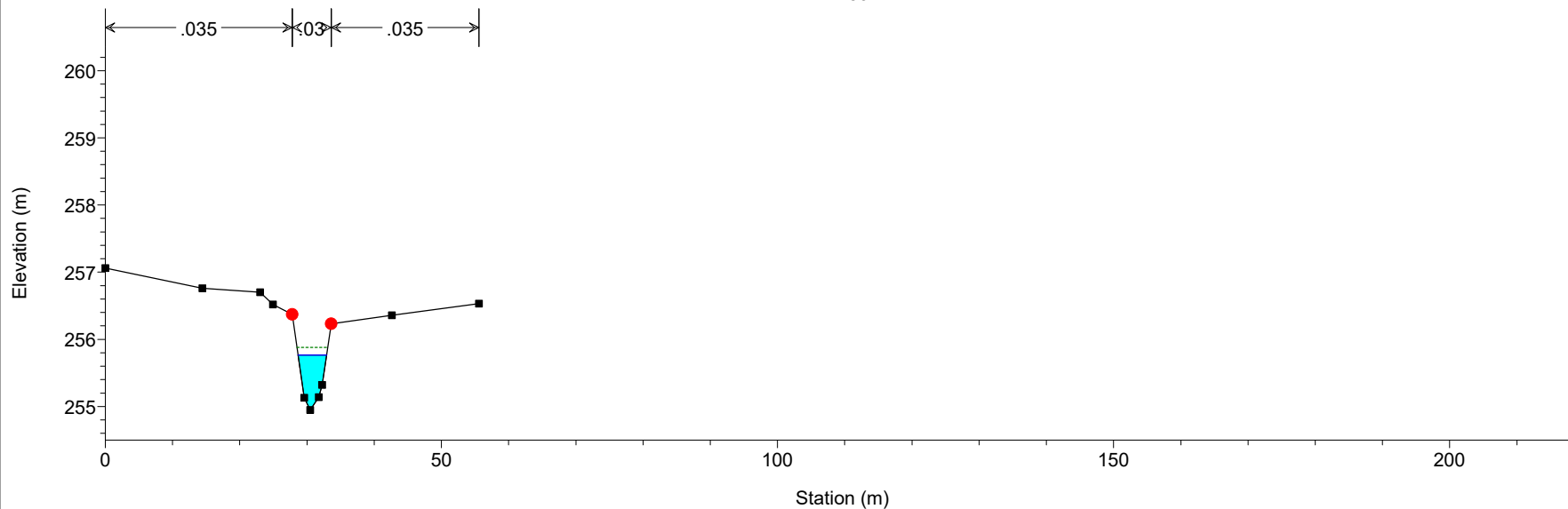


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo
sez 29 rilievo



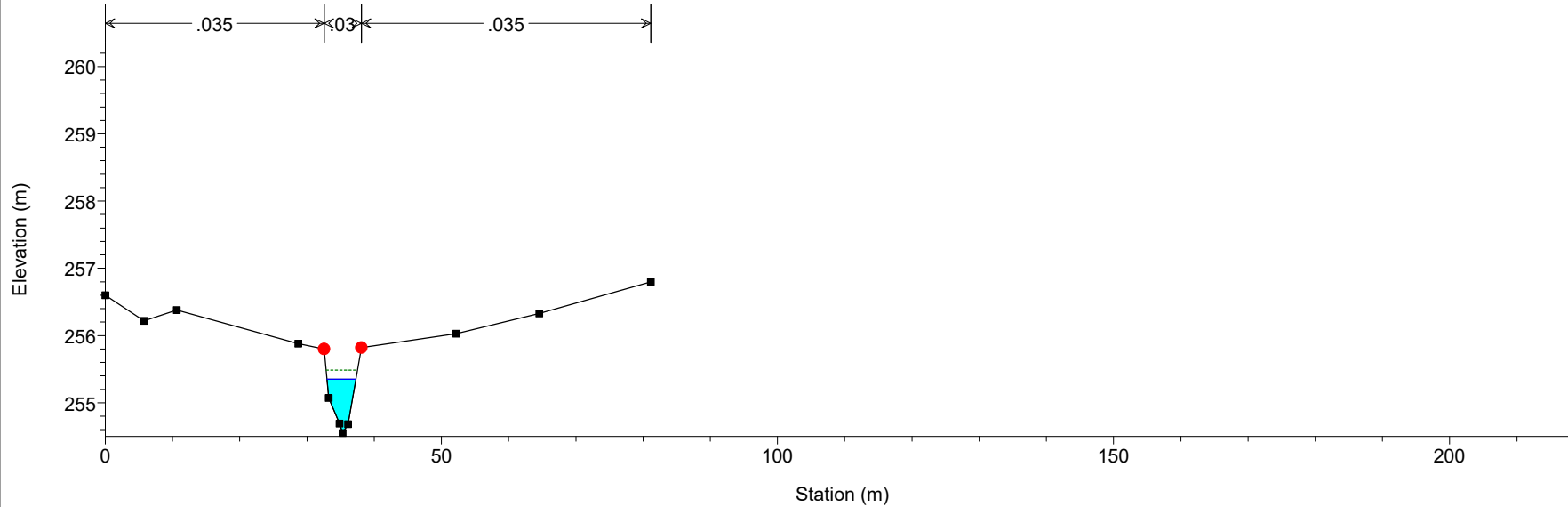
ristagno_rev1 Plan: Q30_definitivo
sez 30 rilievo



1 cm Horiz. = 10 m 1 cm Vert. = 1 m

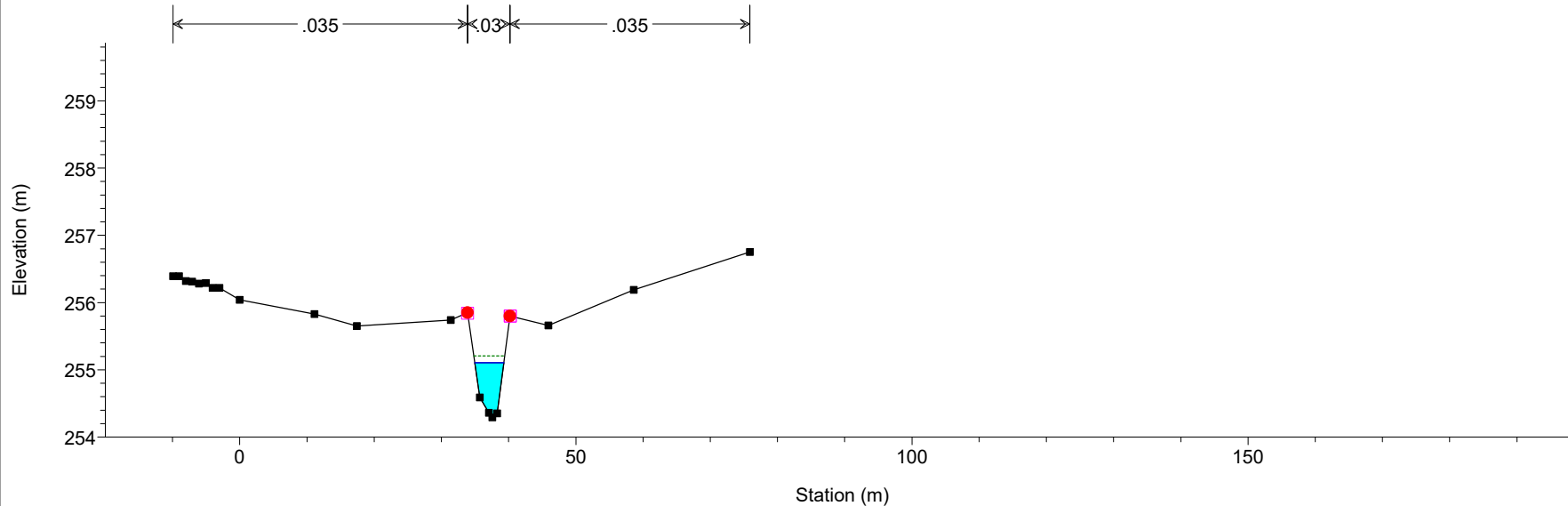
ristagno_rev1 Plan: Q30_definitivo

sez 31 rilievo

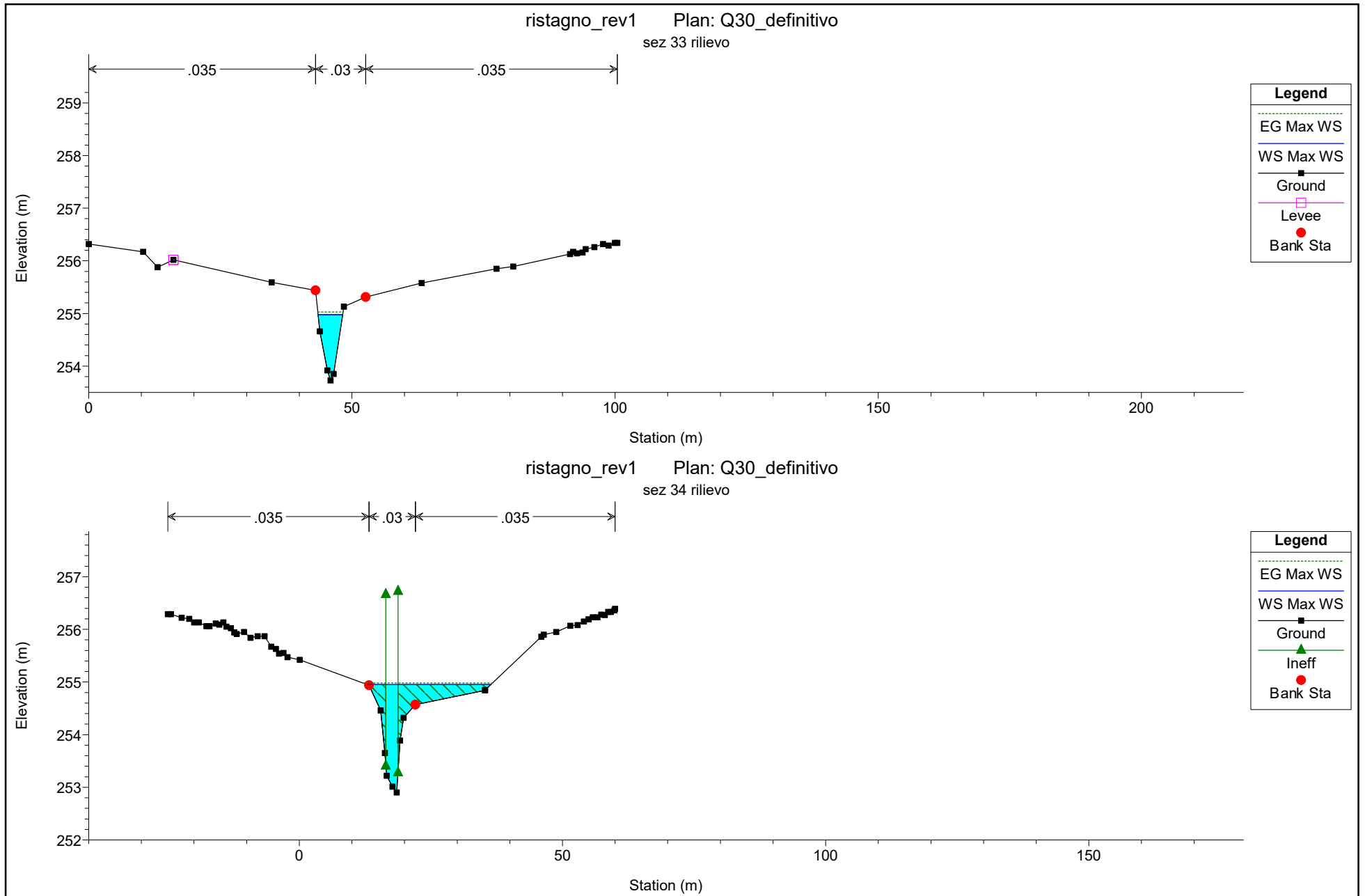


ristagno_rev1 Plan: Q30_definitivo

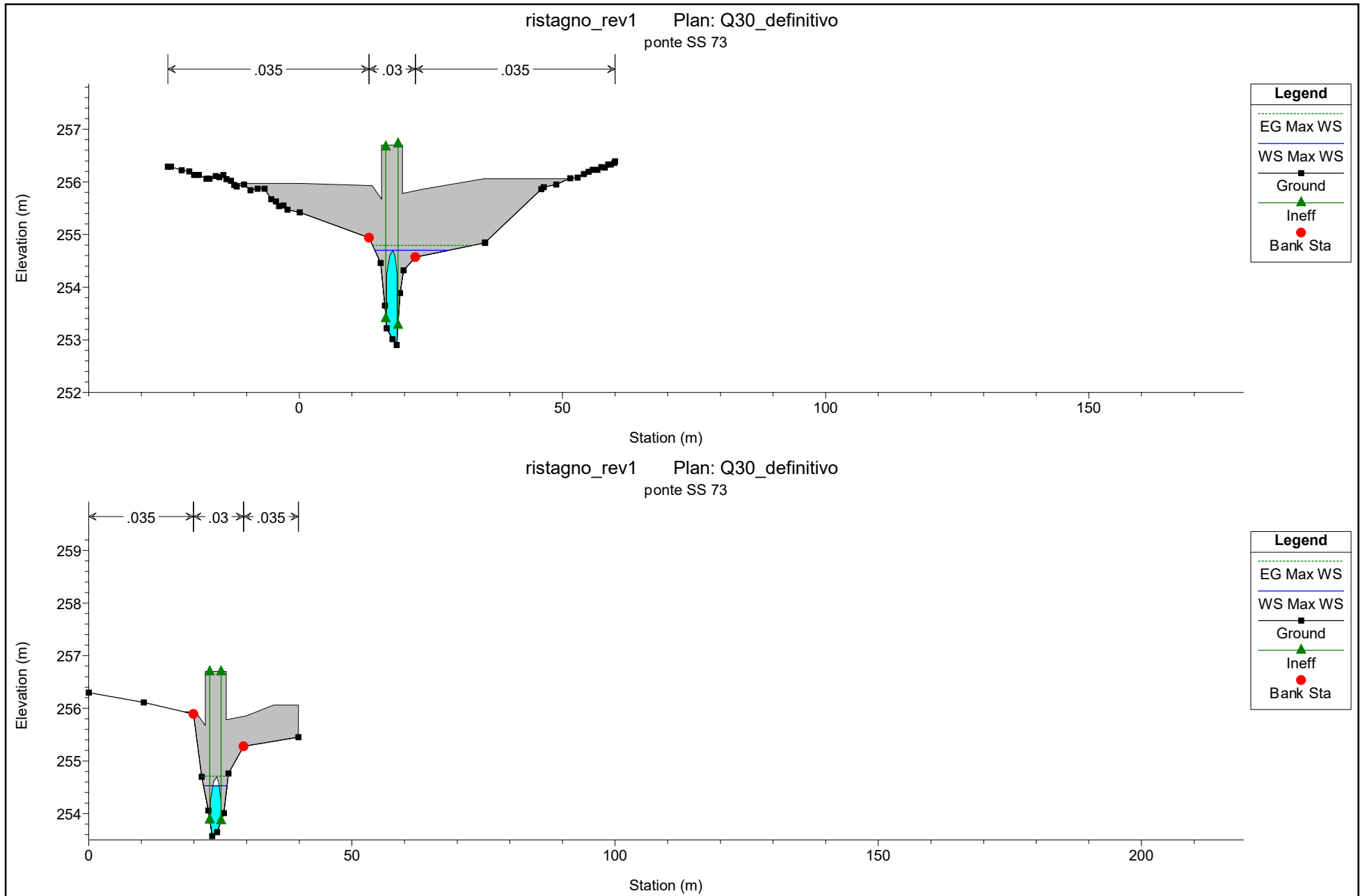
sez 32 rilievo



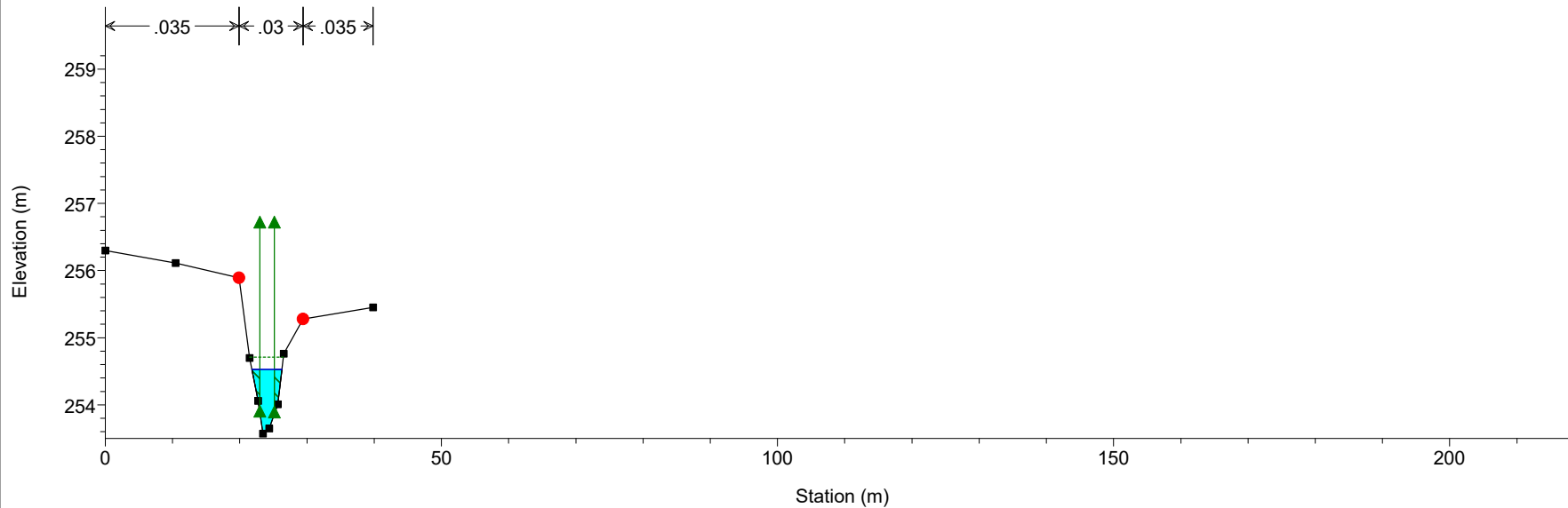
1 cm Horiz. = 10 m 1 cm Vert. = 1 m



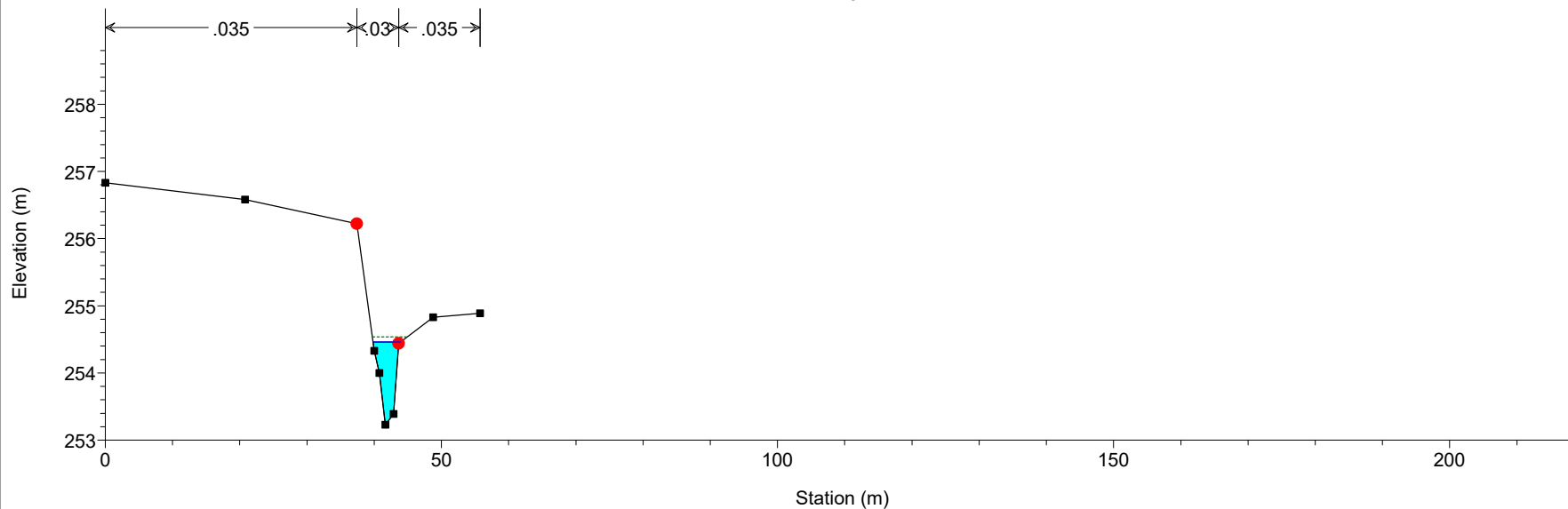
1 cm Horiz. = 10 m 1 cm Vert. = 1 m



ristagno_rev1 Plan: Q30_definitivo
sez 36 rilievo

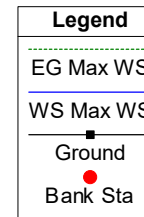
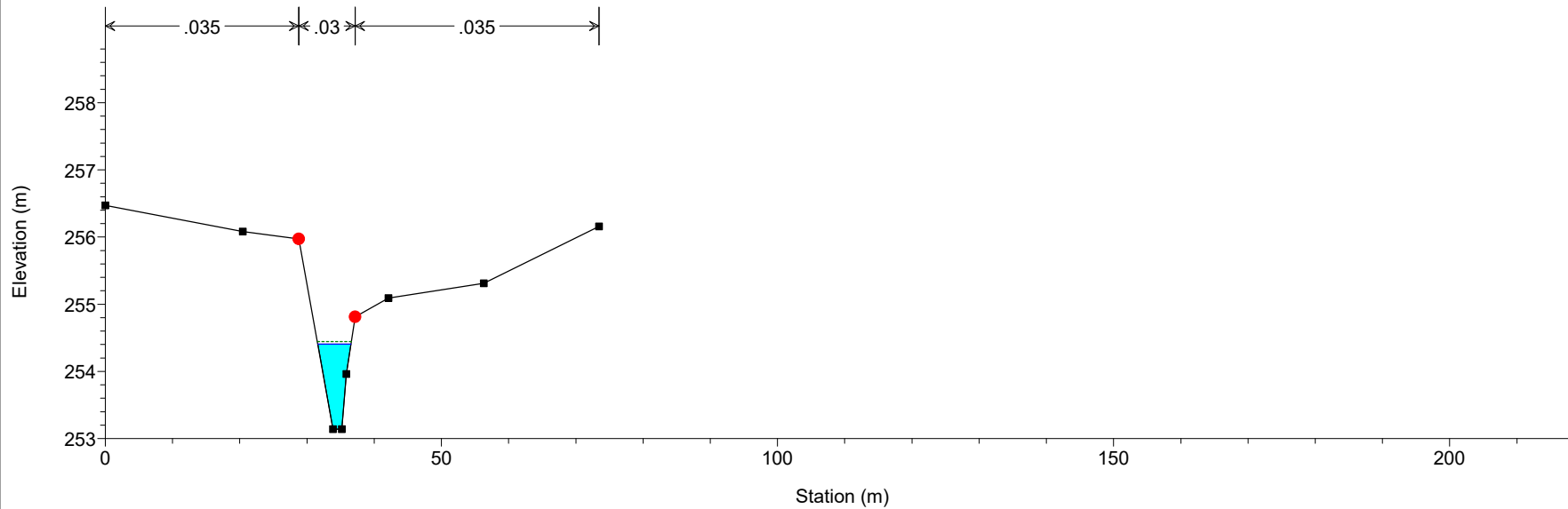


ristagno_rev1 Plan: Q30_definitivo
sez 37 rilievo

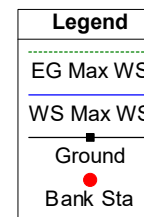
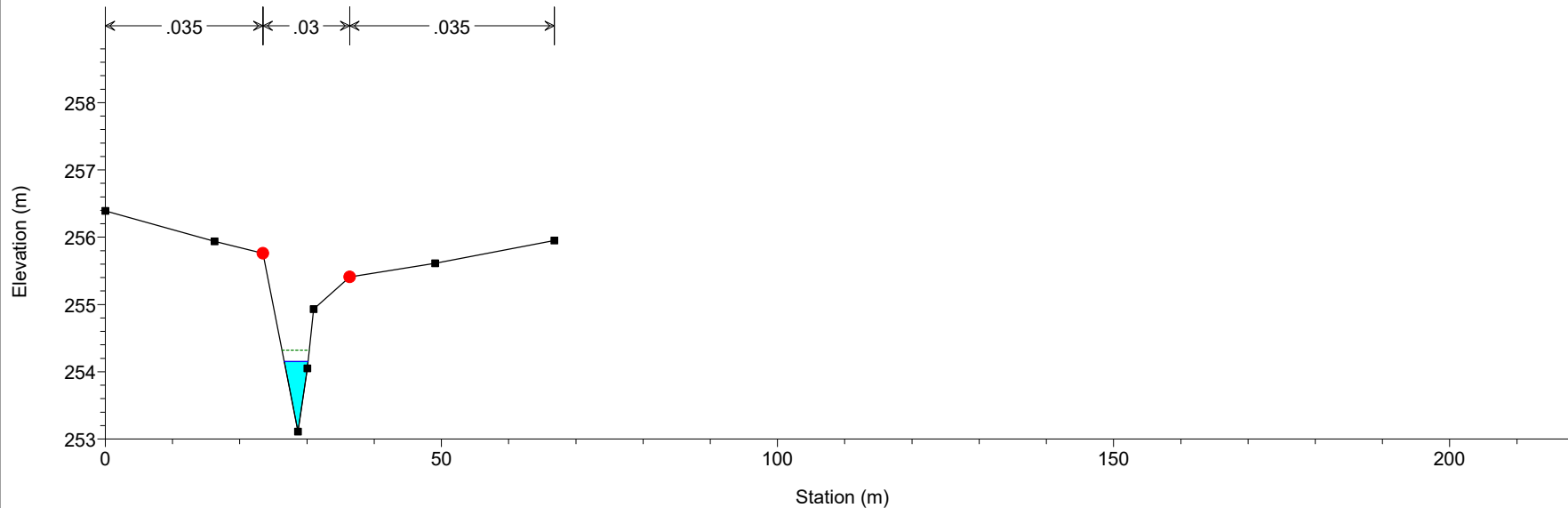


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo
sez 38 rilievo



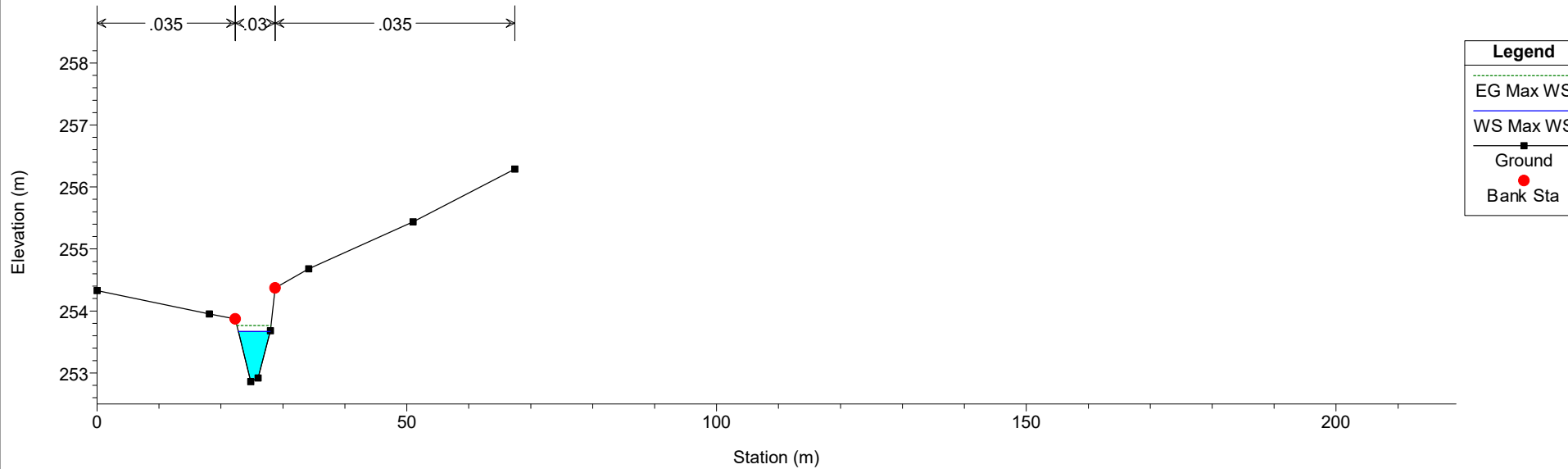
ristagno_rev1 Plan: Q30_definitivo
sez 39 rilievo



1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q30_definitivo

sez 40 rilievo



1 cm Horiz. = 10 m 1 cm Vert. = 1 m

HEC-RAS Plan: Q30_ok River: ristagno Reach: ristagno Profile: Max WS

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
ristagno	1531	Max WS	0.80	270.09	270.31	270.32	270.38	0.017581	1.18	0.69	5.55	1.01
ristagno	1530		Lat Struct									
ristagno	1529		Lat Struct									
ristagno	1266	Max WS	0.80	268.36	268.79	268.80	268.91	0.018764	1.51	0.53	2.62	1.07
ristagno	995	Max WS	0.78	267.56	267.99		268.01	0.002335	0.58	1.36	6.30	0.40
ristagno	856	Max WS	0.68	267.24	267.95		267.95	0.000037	0.12	6.75	21.10	0.06
ristagno	500		Culvert									
ristagno	243	Max WS	0.65	265.00	265.59		265.62	0.002895	0.66	0.98	4.15	0.43
ristagno	148	Max WS	0.65	264.78	265.34		265.40	0.008321	1.11	0.58	2.34	0.71
ristagno	36	Max WS	0.58	264.42	265.00		265.04	0.004125	0.91	0.64	1.94	0.51
ristagno	35	Max WS	0.64	263.68	264.24		264.25	0.001720	0.56	1.89	14.50	0.30
ristagno	34	Max WS	3.21	263.47	263.94		263.96	0.001925	0.70	8.35	56.35	0.38
ristagno	32	Max WS	2.32	262.10	263.23		263.24	0.000284	0.38	11.55	53.33	0.13
ristagno	31	Max WS	6.16	261.88	262.52		262.56	0.006425	1.36	9.41	71.35	0.68
ristagno	30.6	Max WS	4.97	261.10	262.40	261.77	262.49	0.001090	1.30	3.81	12.41	0.37
ristagno	30.5		Bridge									
ristagno	30	Max WS	5.13	261.10	262.03		262.22	0.003718	1.92	2.67	9.34	0.64
ristagno	29	Max WS	4.65	260.92	261.98		262.10	0.004914	1.52	3.06	5.31	0.64
ristagno	28	Max WS	4.64	260.54	261.54	261.53	261.80	0.012141	2.26	2.05	3.61	0.96
ristagno	27	Max WS	4.58	260.05	261.21		261.42	0.008402	2.01	2.28	3.48	0.79
ristagno	26	Max WS	4.52	259.81	261.07		261.14	0.001906	1.11	4.44	10.24	0.41
ristagno	25.6	Max WS	4.48	259.62	261.07	260.32	261.08	0.000222	0.49	14.08	37.83	0.15
ristagno	25.4		Bridge									
ristagno	25	Max WS	4.43	259.62	260.54		260.64	0.003624	1.34	3.32	6.56	0.56
ristagno	24	Max WS	4.43	259.39	260.28		260.48	0.009802	2.02	2.20	4.20	0.89
ristagno	23	Max WS	4.24	258.85	259.83		259.99	0.007623	1.77	2.40	4.64	0.79
ristagno	22	Max WS	3.83	258.60	259.52		259.56	0.001346	0.78	4.94	9.50	0.34
ristagno	21	Max WS	3.71	258.59	259.25		259.39	0.007435	1.70	2.19	4.42	0.77
ristagno	20	Max WS	3.56	257.88	258.95	258.51	258.99	0.001370	0.89	4.00	6.07	0.35
ristagno	19.5		Bridge									
ristagno	19	Max WS	3.56	257.58	258.73		258.76	0.000827	0.65	5.52	9.31	0.27
ristagno	18	Max WS	3.54	257.52	258.58		258.71	0.005541	1.58	2.24	3.82	0.66
ristagno	17	Max WS	3.51	257.34	258.15		258.31	0.007965	1.75	2.01	4.09	0.79
ristagno	16	Max WS	3.48	257.05	258.02		258.12	0.006139	1.39	2.51	6.05	0.69
ristagno	15	Max WS	3.48	256.76	257.70		257.80	0.004445	1.41	2.46	4.42	0.60
ristagno	14	Max WS	3.47	256.54	257.36		257.52	0.007998	1.79	1.94	3.70	0.79
ristagno	13	Max WS	3.46	256.23	257.13		257.22	0.004683	1.30	2.65	5.71	0.61

HEC-RAS Plan: Q30_ok River: ristagno Reach: ristagno Profile: Max WS (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
ristagno	12	Max WS	3.45	255.82	256.84		256.93	0.003572	1.34	2.58	4.08	0.54
ristagno	11	Max WS	3.44	255.50	256.25		256.37	0.006035	1.55	2.22	4.47	0.70
ristagno	10	Max WS	3.42	254.95	255.77		255.88	0.005252	1.50	2.28	4.25	0.65
ristagno	9	Max WS	3.41	254.55	255.35		255.48	0.006885	1.62	2.10	4.31	0.74
ristagno	8	Max WS	3.41	254.29	255.10		255.21	0.004550	1.42	2.40	4.33	0.61
ristagno	7	Max WS	3.41	253.73	254.98		255.03	0.001657	1.00	3.40	4.67	0.38
ristagno	6	Max WS	3.41	252.90	254.95	253.68	254.98	0.000289	0.79	4.31	23.43	0.18
ristagno	5.5		Bridge									
ristagno	5	Max WS	3.41	253.57	254.53		254.71	0.004312	1.88	1.81	4.48	0.65
ristagno	4	Max WS	3.41	253.23	254.46		254.54	0.002631	1.21	2.82	4.07	0.45
ristagno	3	Max WS	3.41	253.14	254.40		254.44	0.001245	0.89	3.82	4.94	0.32
ristagno	2	Max WS	3.41	253.11	254.15		254.32	0.008827	1.84	1.85	3.52	0.81
ristagno	1	Max WS	3.40	252.86	253.67	253.51	253.77	0.005026	1.39	2.45	5.12	0.64

HEC-RAS Plan: Q30_ok River: ristagno Reach: ristagno Profile: Max WS

Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Vel Head (m)	Frctn Loss (m)	C & E Loss (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Top Width (m)
ristagno	1531	Max WS	270.38	270.31	0.07	1.47			0.80	0.00	5.55
ristagno	1530		Lat Struct								
ristagno	1529		Lat Struct								
ristagno	1266	Max WS	268.91	268.79	0.12	0.87			0.80		2.62
ristagno	995	Max WS	268.01	267.99	0.02	0.05			0.78		6.30
ristagno	856	Max WS	267.95	267.95	0.00			0.07	0.55	0.05	21.10
ristagno	500		Culvert								
ristagno	243	Max WS	265.62	265.59	0.02	0.16			0.65		4.15
ristagno	148	Max WS	265.40	265.34	0.06	0.21			0.65		2.34
ristagno	36	Max WS	265.04	265.00	0.04	0.27			0.58		1.94
ristagno	35	Max WS	264.25	264.24	0.01	0.11		0.39	0.24	0.00	14.50
ristagno	34	Max WS	263.96	263.94	0.01	0.15		2.37	0.84		56.35
ristagno	32	Max WS	263.24	263.23	0.00	0.15		1.72	0.60		53.33
ristagno	31	Max WS	262.56	262.52	0.04	0.19		4.65	1.52		71.35
ristagno	30.6	Max WS	262.49	262.40	0.09				4.97		12.41
ristagno	30.5		Bridge								
ristagno	30	Max WS	262.22	262.03	0.19	0.06			5.13		9.34
ristagno	29	Max WS	262.10	261.98	0.12	0.29			4.65		5.31
ristagno	28	Max WS	261.80	261.54	0.26	0.37			4.64		3.61
ristagno	27	Max WS	261.42	261.21	0.21	0.22			4.58		3.48
ristagno	26	Max WS	261.14	261.07	0.06	0.02			4.39	0.13	10.24
ristagno	25.6	Max WS	261.08	261.07	0.01			1.16	3.17	0.15	37.83
ristagno	25.4		Bridge								
ristagno	25	Max WS	260.64	260.54	0.09	0.15		0.00	4.43		6.56
ristagno	24	Max WS	260.48	260.28	0.21	0.47			4.43		4.20
ristagno	23	Max WS	259.99	259.83	0.16	0.42			4.24		4.64
ristagno	22	Max WS	259.56	259.52	0.03	0.15			3.83		9.50
ristagno	21	Max WS	259.39	259.25	0.15	0.36			3.71		4.42
ristagno	20	Max WS	258.99	258.95	0.04	0.01	0.02		3.56		6.07
ristagno	19.5		Bridge								
ristagno	19	Max WS	258.76	258.73	0.02	0.05			3.56		9.31
ristagno	18	Max WS	258.71	258.58	0.13	0.38			3.54		3.82
ristagno	17	Max WS	258.31	258.15	0.16	0.18			3.51		4.09
ristagno	16	Max WS	258.12	258.02	0.10	0.33			3.48		6.05
ristagno	15	Max WS	257.80	257.70	0.10	0.27			3.48		4.42
ristagno	14	Max WS	257.52	257.36	0.16	0.28			3.47		3.70
ristagno	13	Max WS	257.22	257.13	0.09	0.29			3.46		5.71

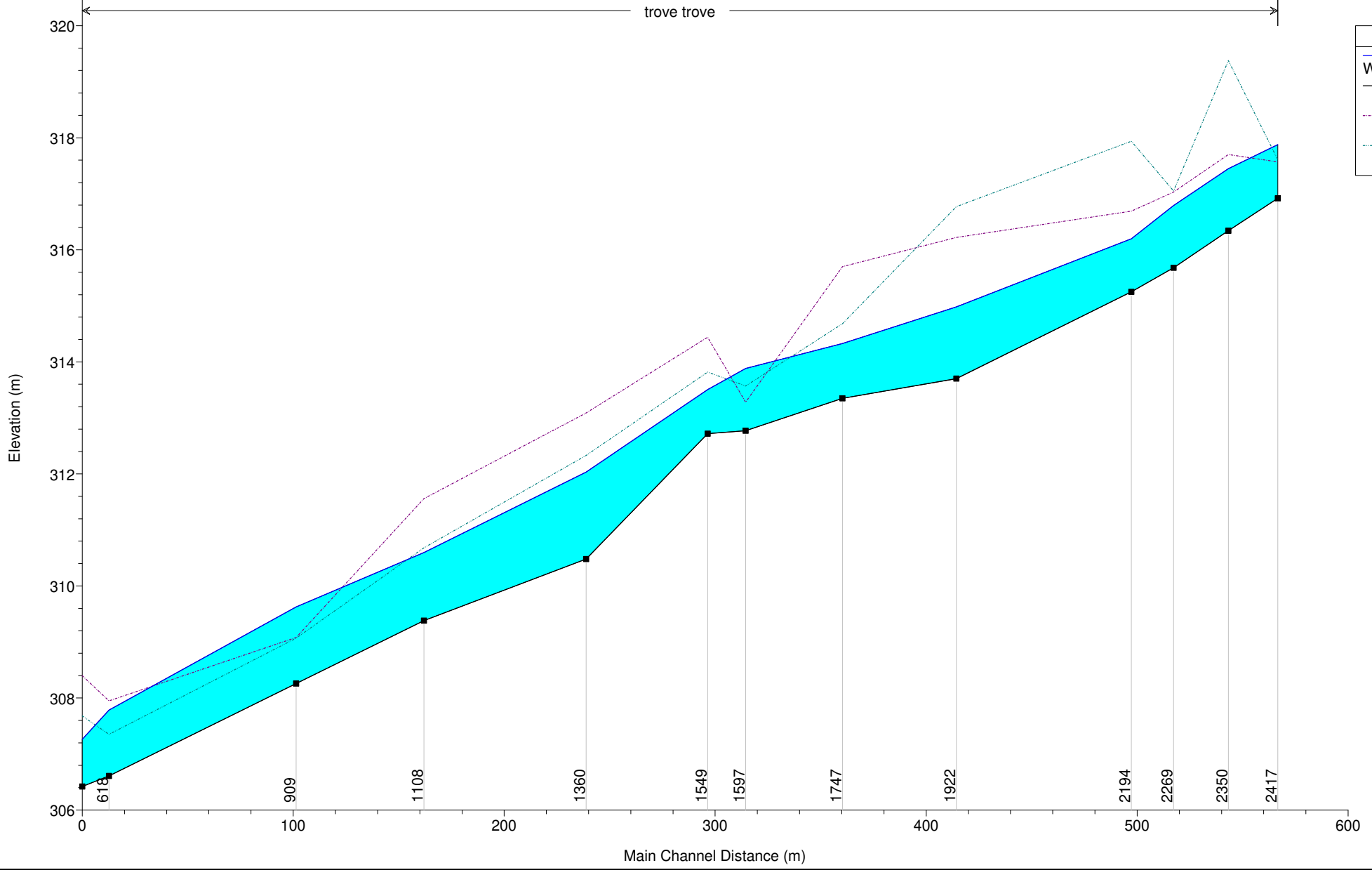
HEC-RAS Plan: Q30_ok River: ristagno Reach: ristagno Profile: Max WS (Continued)

Reach	River Sta	Profile	E.G. Elev	W.S. Elev	Vel Head	Frctn Loss	C & E Loss	Q Left	Q Channel	Q Right	Top Width
			(m)	(m)	(m)	(m)	(m)	(m3/s)	(m3/s)	(m3/s)	(m)
ristagno	12	Max WS	256.93	256.84	0.09	0.56			3.45		4.08
ristagno	11	Max WS	256.37	256.25	0.12	0.49			3.44		4.47
ristagno	10	Max WS	255.88	255.77	0.11	0.39			3.42		4.25
ristagno	9	Max WS	255.48	255.35	0.13	0.27			3.41		4.31
ristagno	8	Max WS	255.21	255.10	0.10	0.16			3.41		4.33
ristagno	7	Max WS	255.03	254.98	0.05	0.04			3.41		4.67
ristagno	6	Max WS	254.98	254.95	0.03				3.41		23.43
ristagno	5.5		Bridge								
ristagno	5	Max WS	254.71	254.53	0.18	0.14			3.41		4.48
ristagno	4	Max WS	254.54	254.46	0.07	0.08			3.41	0.00	4.07
ristagno	3	Max WS	254.44	254.40	0.04	0.13			3.41		4.94
ristagno	2	Max WS	254.32	254.15	0.17	0.54			3.41		3.52
ristagno	1	Max WS	253.77	253.67	0.10				3.40		5.12

OUTPUT HEC-RAS
TR30

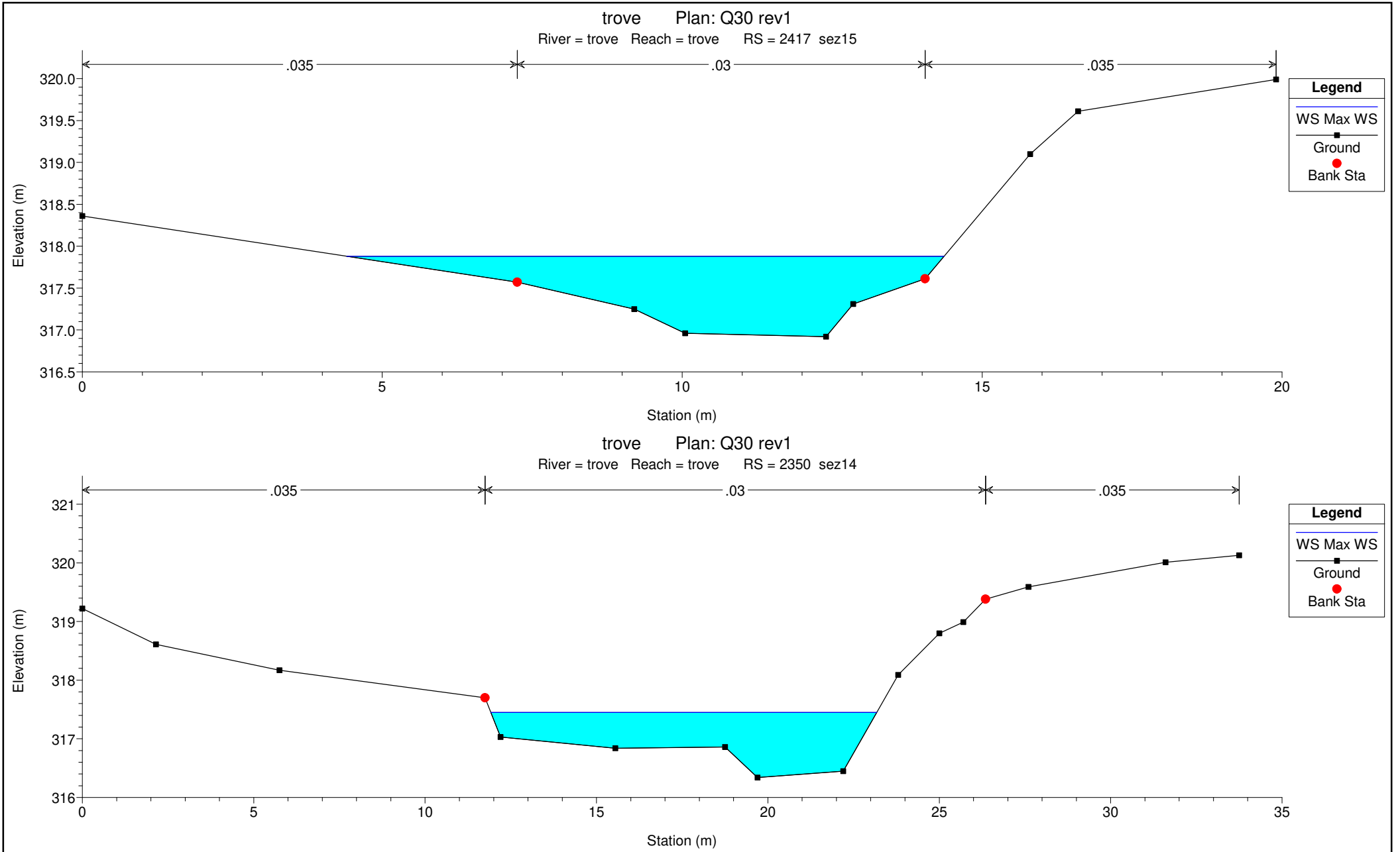
TORRENTE TROVE

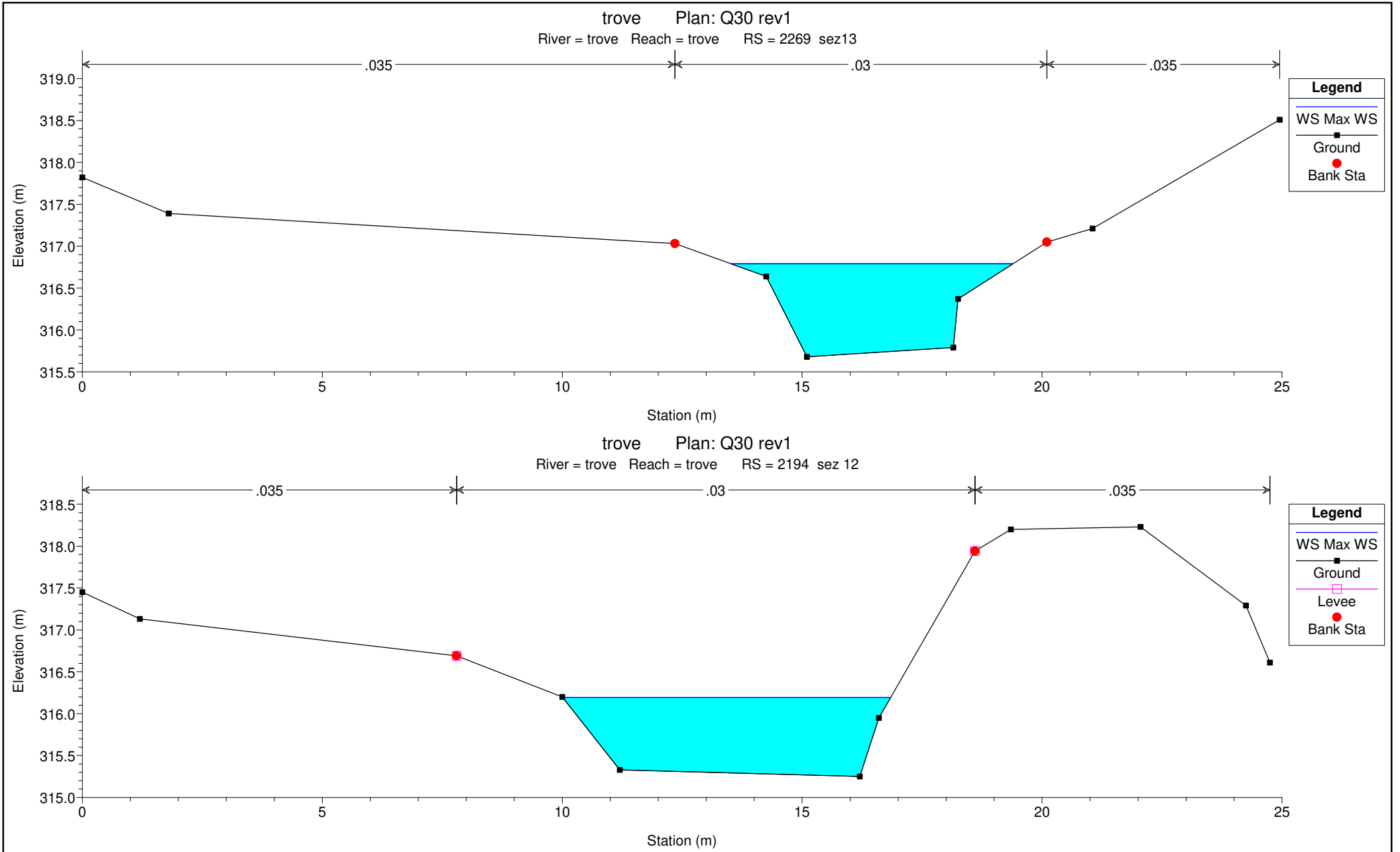
trove Plan: Q30 rev1

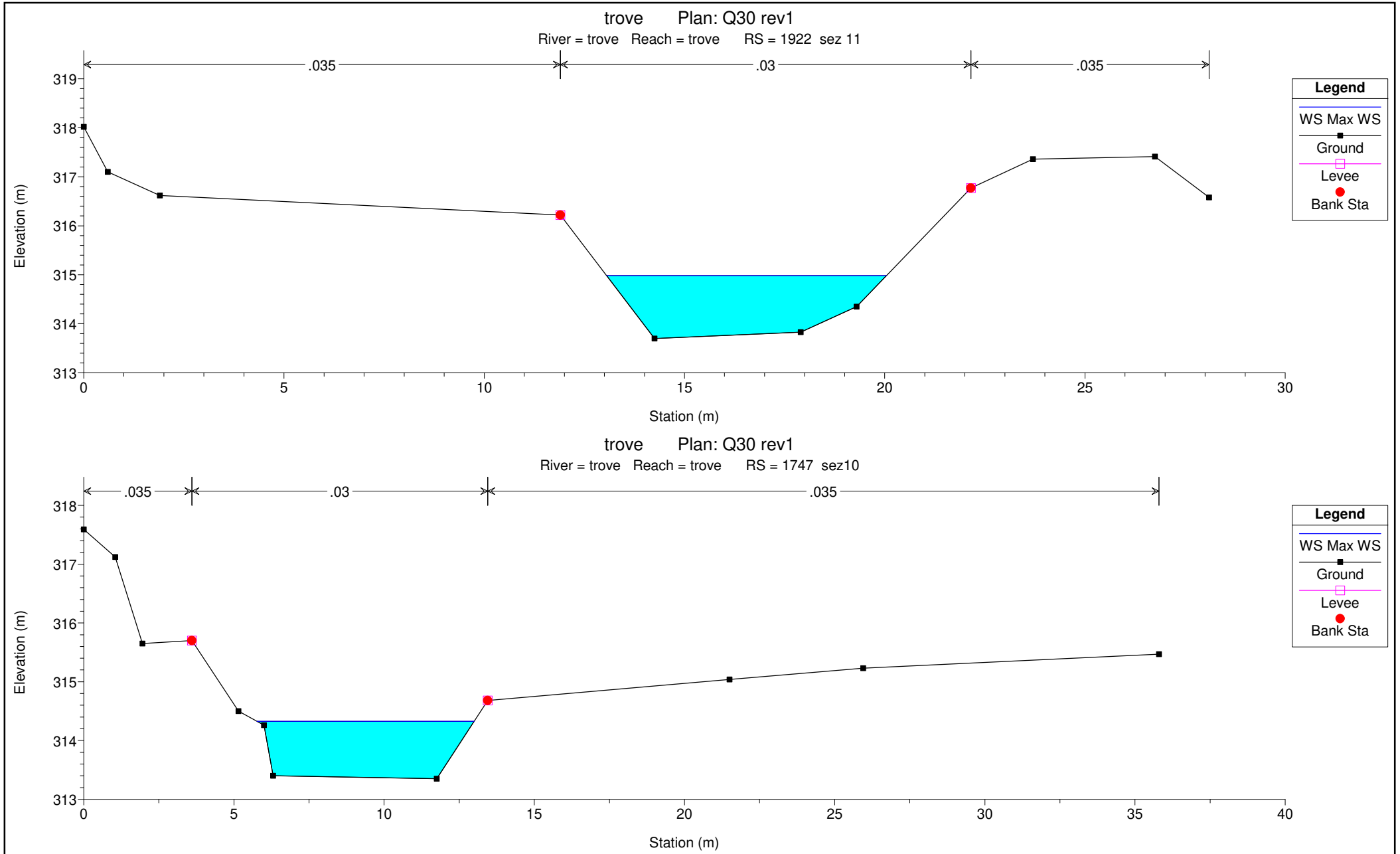


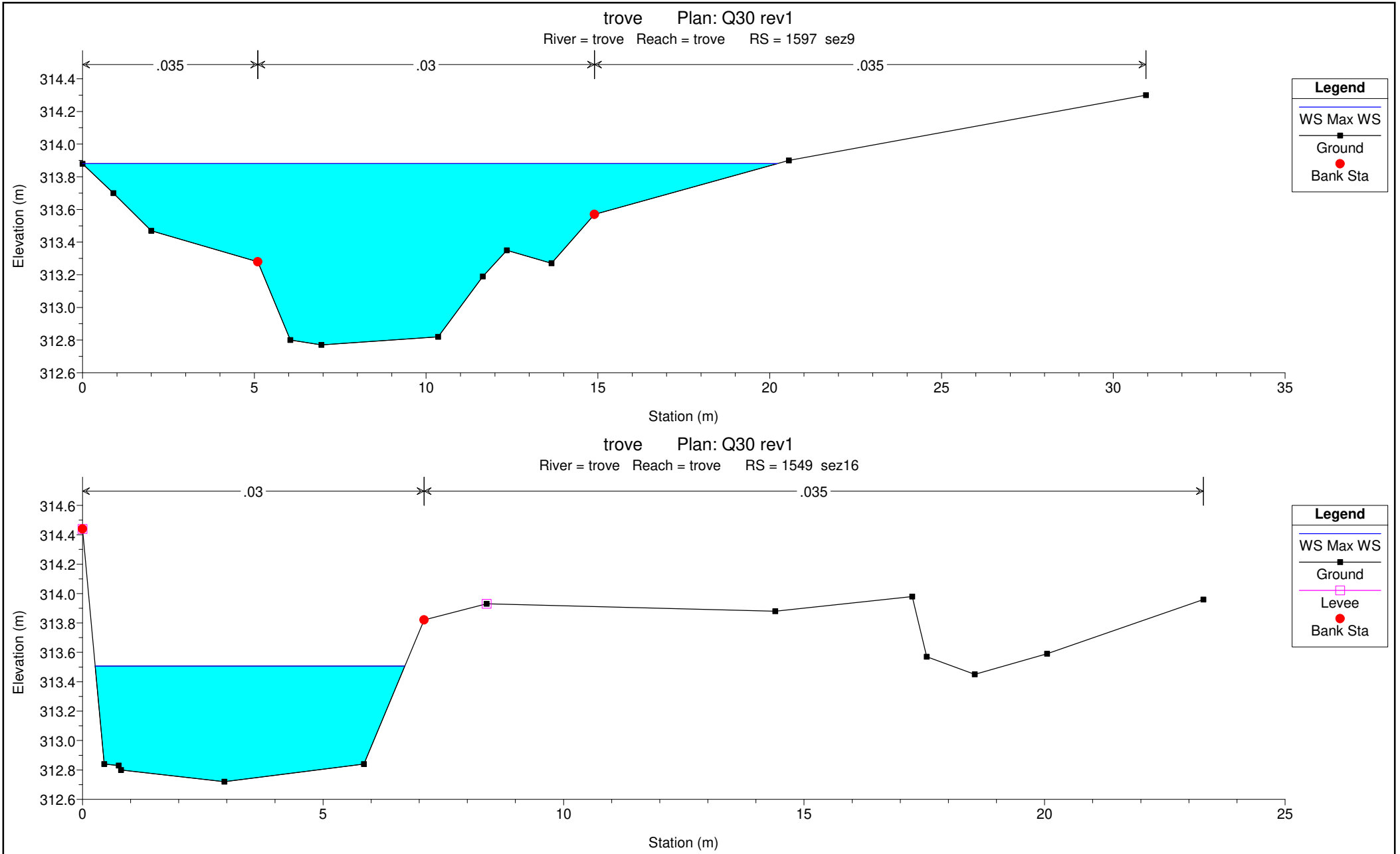
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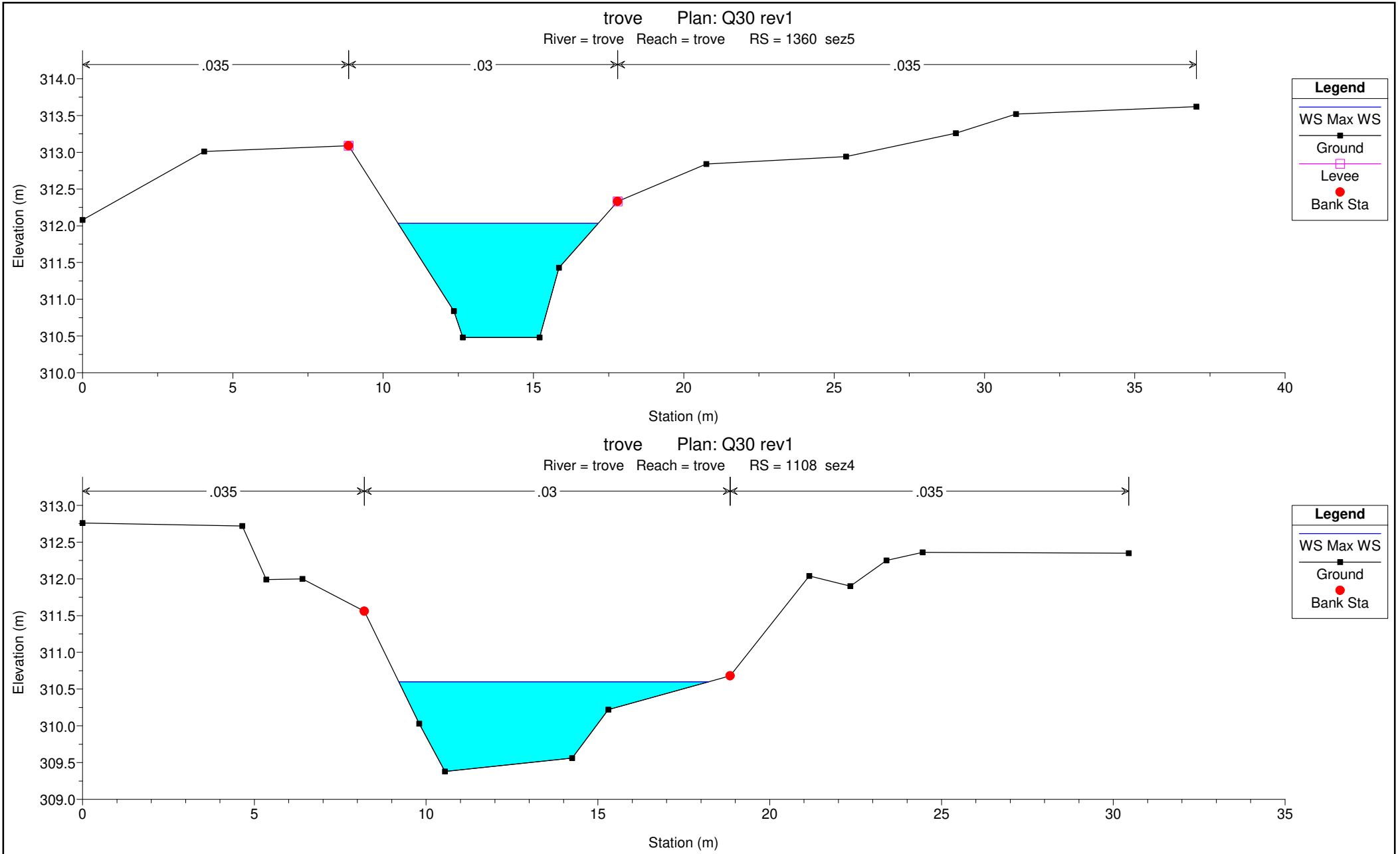
- WS Max WS
- Ground
- LOB
- ROB

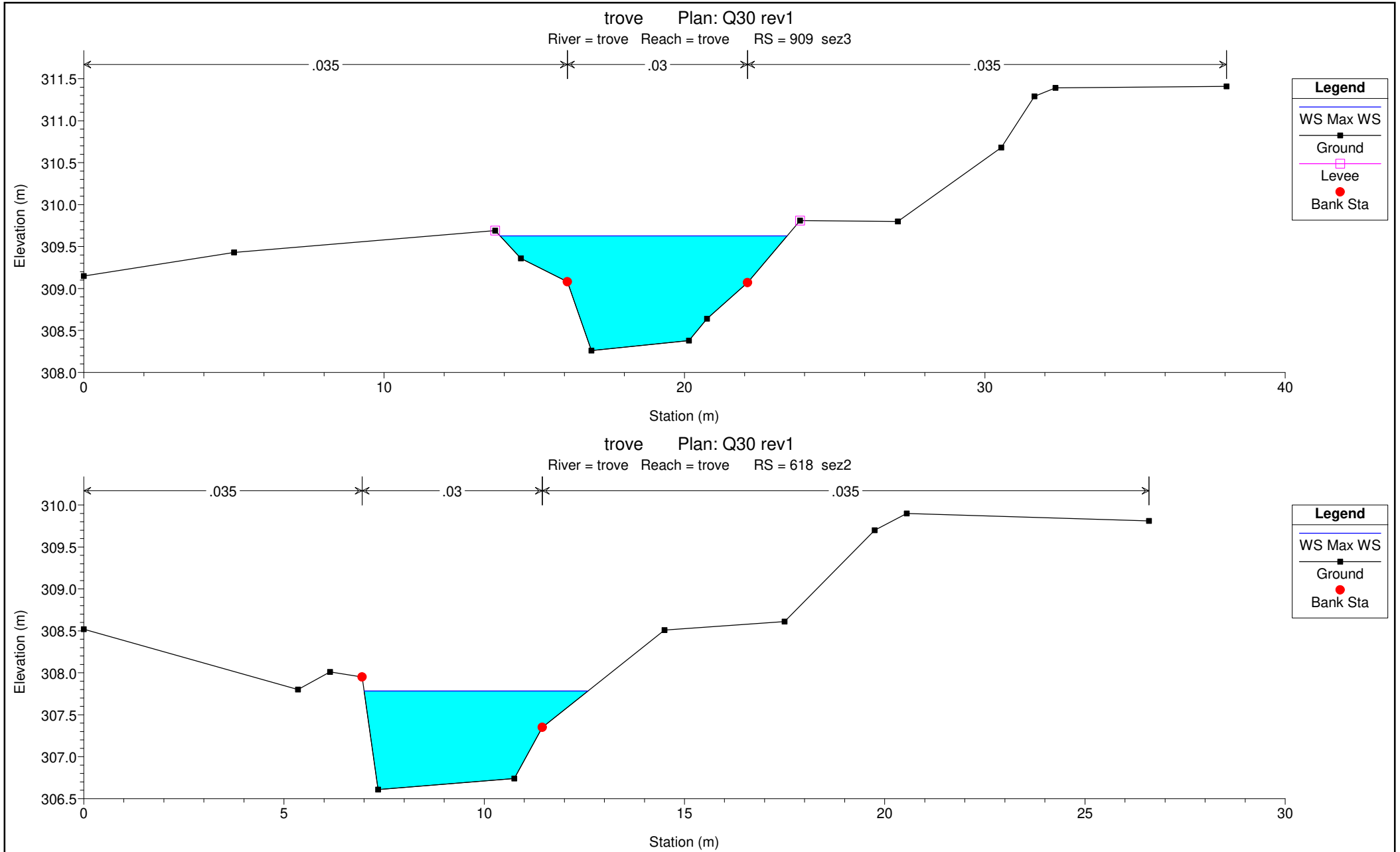


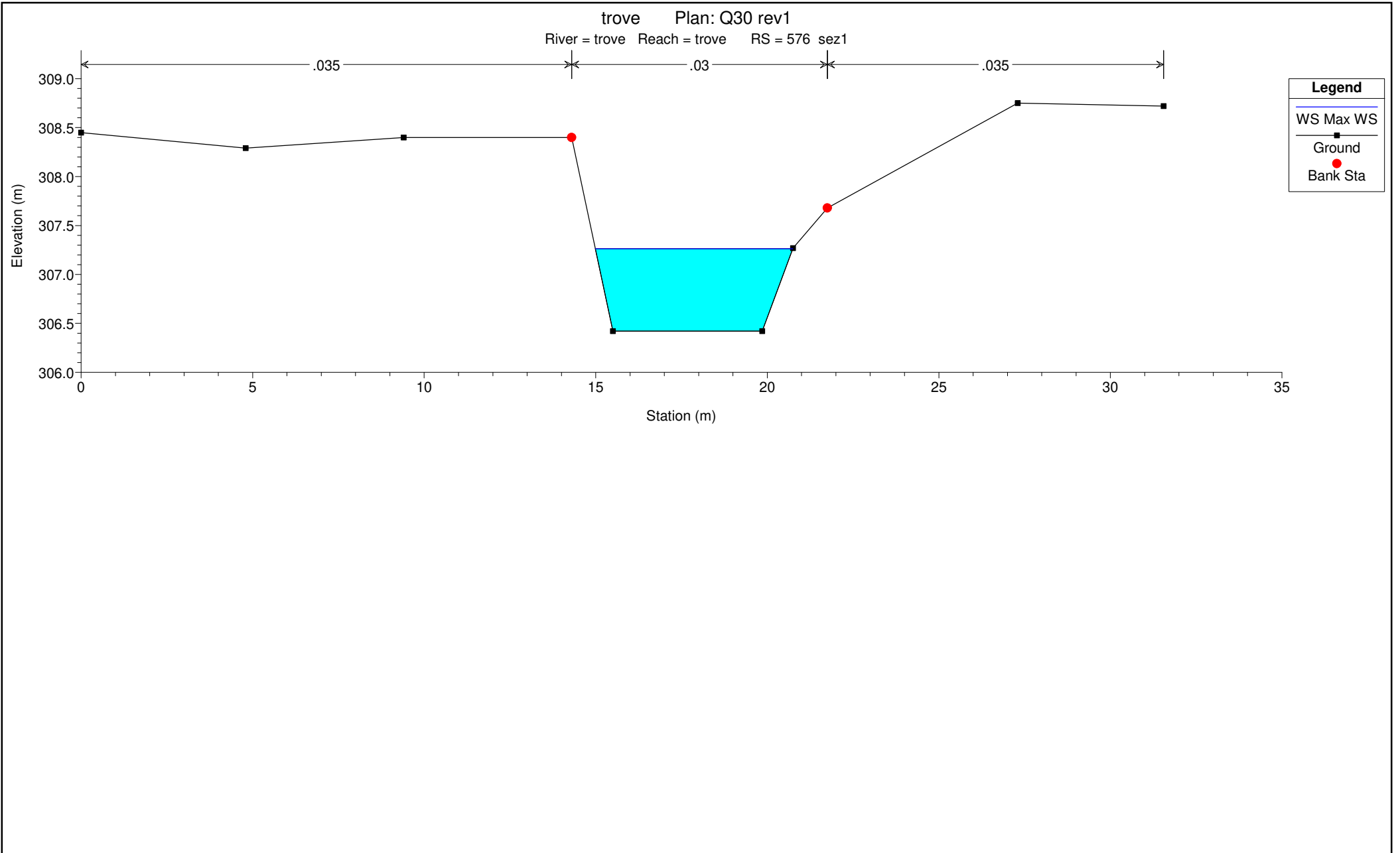












HEC-RAS Plan: Q30rev1 River: trove Reach: trove Profile: Max WS

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
trove	2417	Max WS	19.50	316.92	317.88	318.14	318.70	0.026226	4.08	5.11	9.96	1.58
trove	2400		Lat Struct									
trove	2399		Lat Struct									
trove	2350	Max WS	19.50	316.34	317.45	317.44	317.78	0.010809	2.56	7.63	11.26	0.99
trove	2269	Max WS	19.50	315.68	316.79	317.21	317.93	0.039895	4.73	4.13	5.88	1.80
trove	2194	Max WS	19.50	315.25	316.20	316.39	316.88	0.019663	3.67	5.31	6.84	1.33
trove	1922	Max WS	19.50	313.70	314.98	314.95	315.41	0.009530	2.92	6.68	6.99	0.95
trove	1747	Max WS	19.50	313.35	314.33	314.43	314.87	0.014783	3.28	5.95	7.23	1.15
trove	1597	Max WS	19.50	312.77	313.88		314.07	0.004731	2.03	11.16	20.23	0.70
trove	1549	Max WS	19.48	312.72	313.51	313.83	314.56	0.036803	4.54	4.29	6.44	1.77
trove	1360	Max WS	23.78	310.48	312.03	312.16	312.70	0.014785	3.61	6.58	6.67	1.16
trove	1108	Max WS	23.78	309.38	310.60	310.80	311.32	0.022626	3.76	6.32	9.02	1.44
trove	909	Max WS	23.76	308.26	309.63	309.75	310.17	0.009492	3.33	7.82	9.56	1.01
trove	618	Max WS	23.78	306.61	307.78	308.28	309.14	0.032188	5.19	4.74	5.59	1.65
trove	576	Max WS	23.78	306.42	307.26	307.75	308.85	0.049939	5.58	4.26	5.75	2.07

HEC-RAS Plan: Q30rev1 River: trove Reach: trove Profile: Max WS

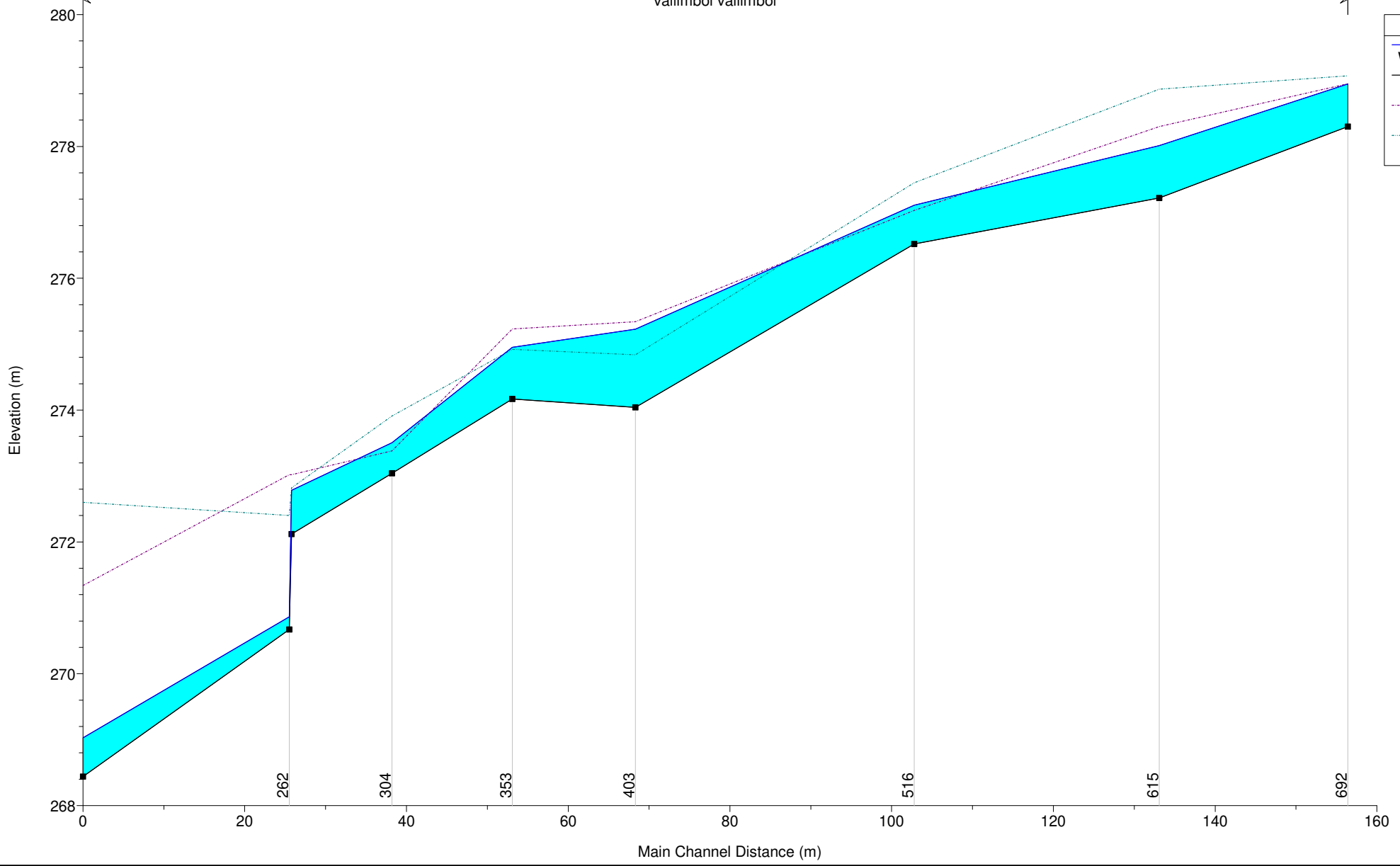
Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Vel Head (m)	Frctn Loss (m)	C & E Loss (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Top Width (m)
trove	2417	Max WS	318.70	317.88	0.82	0.43		0.58	18.87	0.04	9.96
trove	2400		Lat Struct								
trove	2399		Lat Struct								
trove	2350	Max WS	317.78	317.45	0.33	0.66			19.50		11.26
trove	2269	Max WS	317.93	316.79	1.14	0.60			19.50		5.88
trove	2194	Max WS	316.88	316.20	0.69	1.21			19.50		6.84
trove	1922	Max WS	315.41	314.98	0.43	0.66			19.50		6.99
trove	1747	Max WS	314.87	314.33	0.55	0.45			19.50		7.23
trove	1597	Max WS	314.07	313.88	0.19	0.37		2.05	16.98	0.47	20.23
trove	1549	Max WS	314.56	313.51	1.05	1.49			19.48		6.44
trove	1360	Max WS	312.70	312.03	0.67	1.44			23.78		6.67
trove	1108	Max WS	311.32	310.60	0.72	0.97			23.78		9.02
trove	909	Max WS	310.17	309.63	0.54	1.85		0.93	22.42	0.41	9.56
trove	618	Max WS	309.14	307.78	1.35	0.52			23.34	0.44	5.59
trove	576	Max WS	308.85	307.26	1.59				23.78		5.75

OUTPUT HEC-RAS
TR30

FOSSO VALLIMBOI

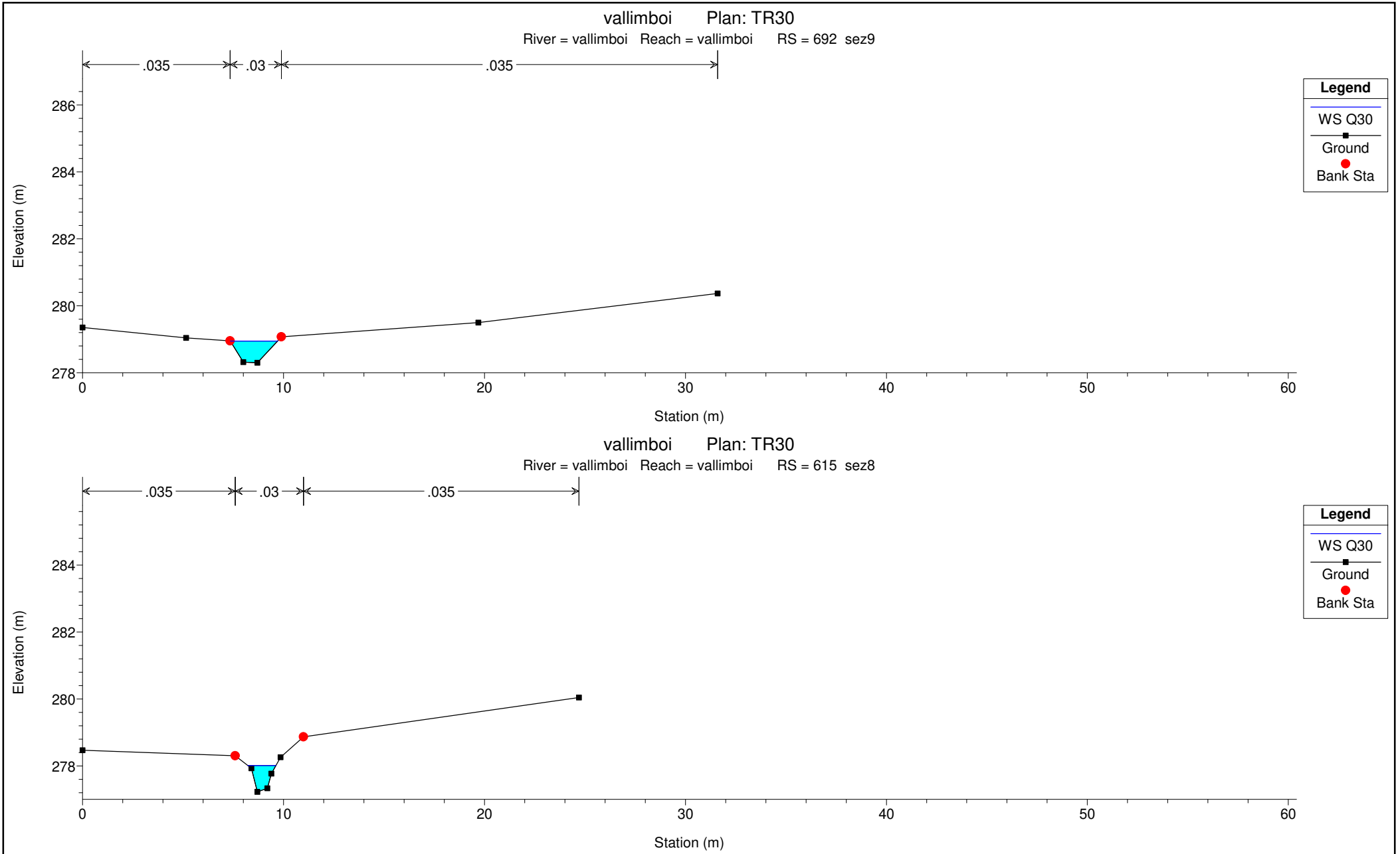
vallimboi Plan: TR30

vallimboi vallimboi

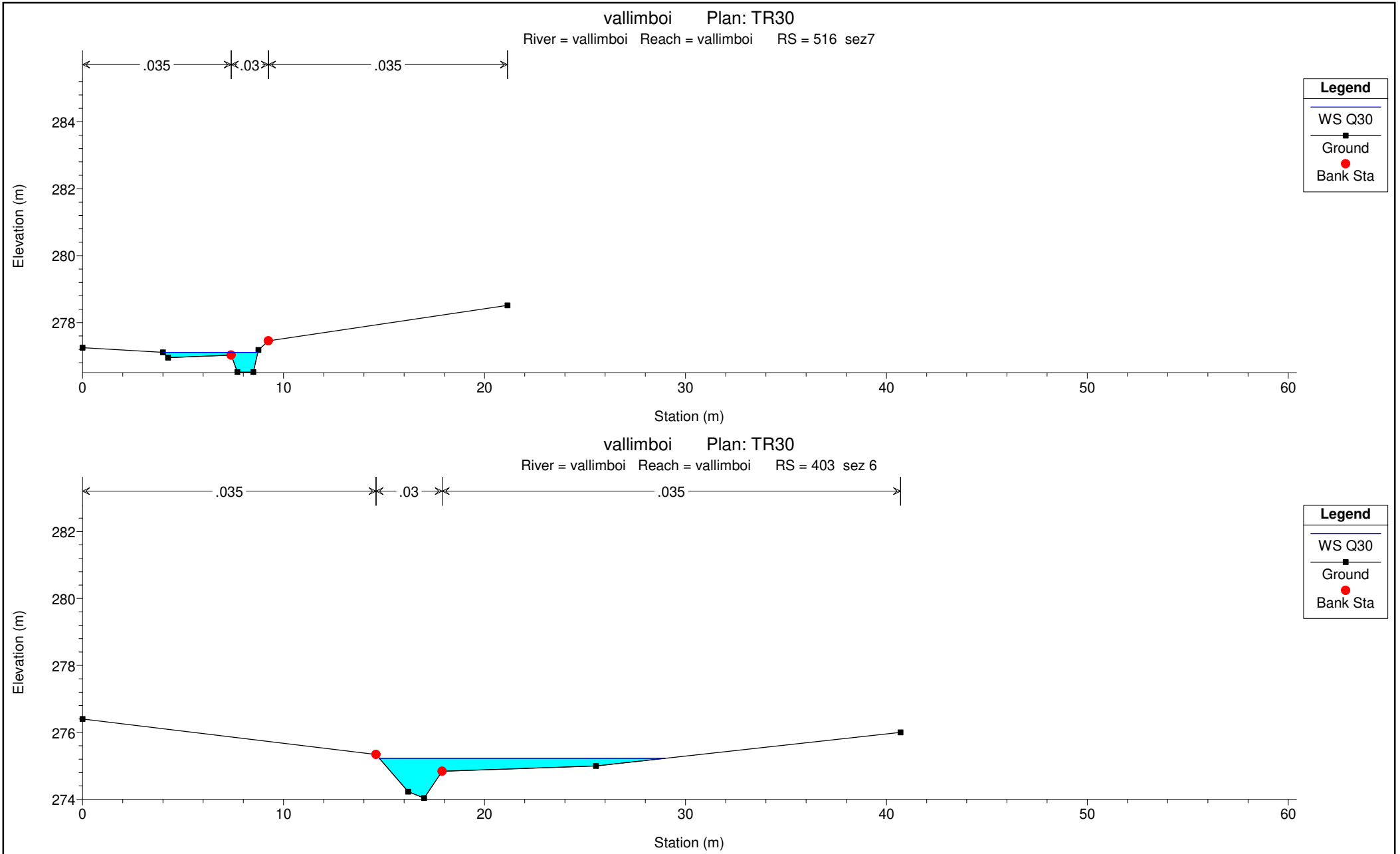


Legend

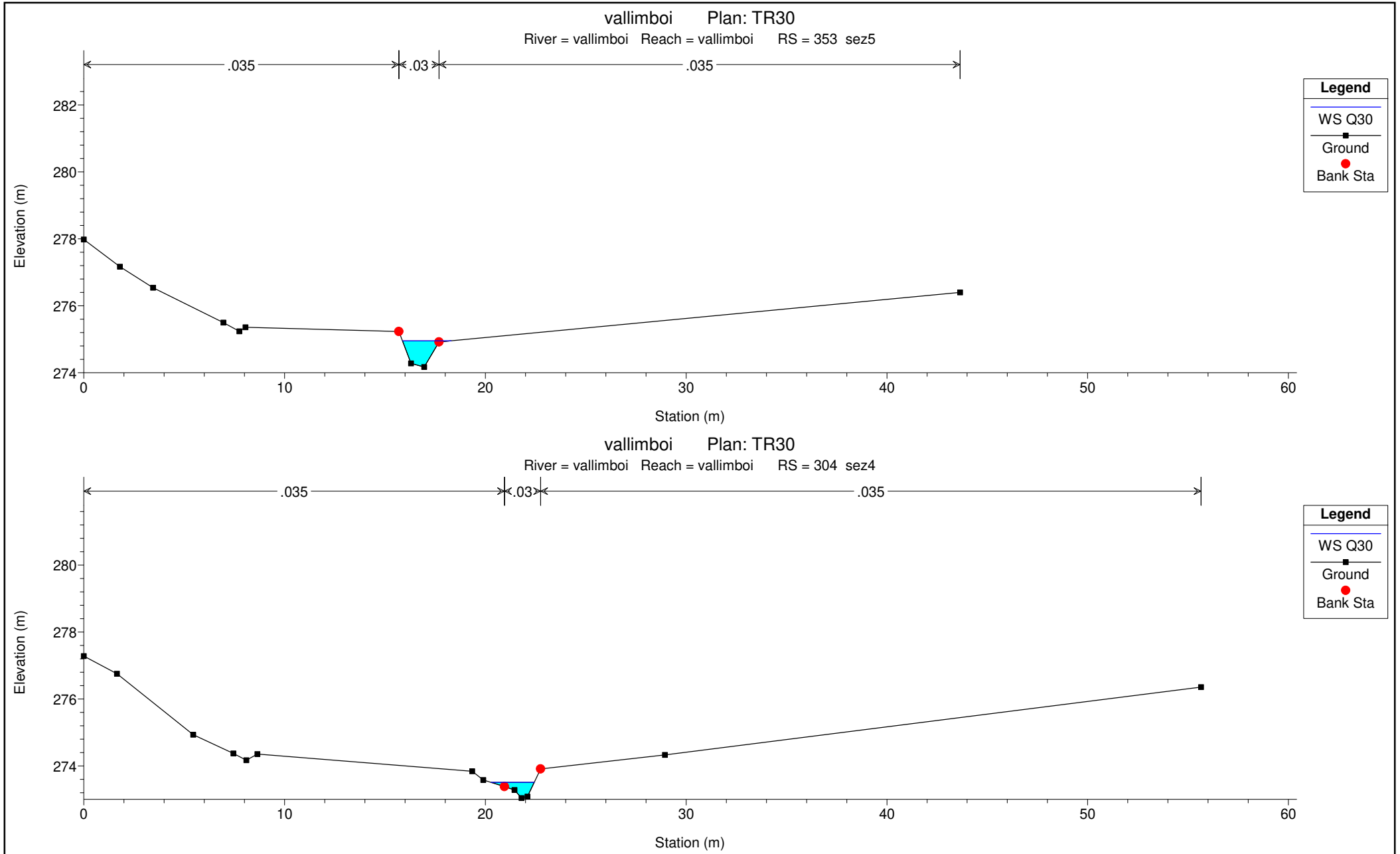
- WS Q30
- Ground
- LOB
- ROB



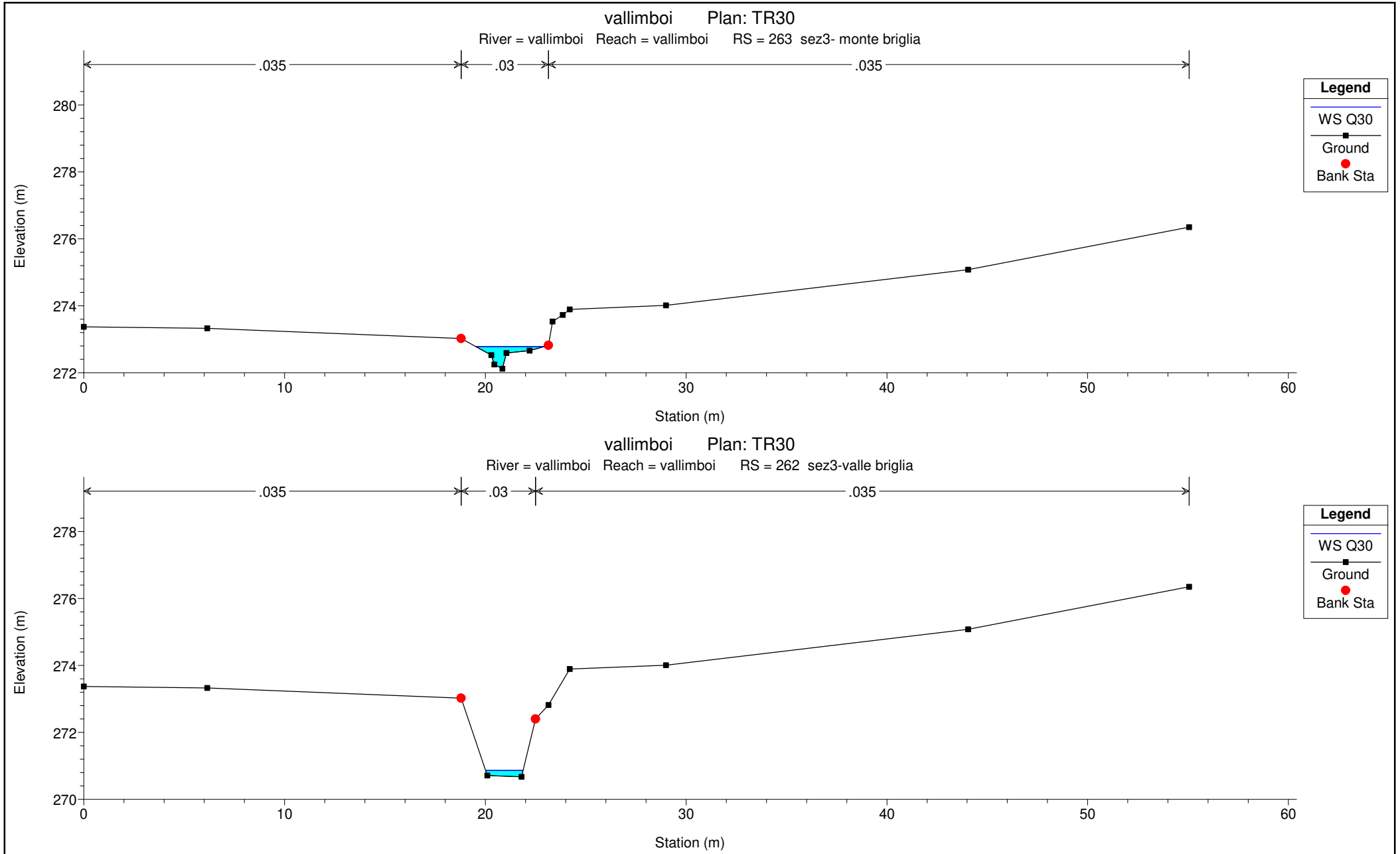
1 cm Horiz. = 2.5 m 1 cm Vert. = 1.5 m



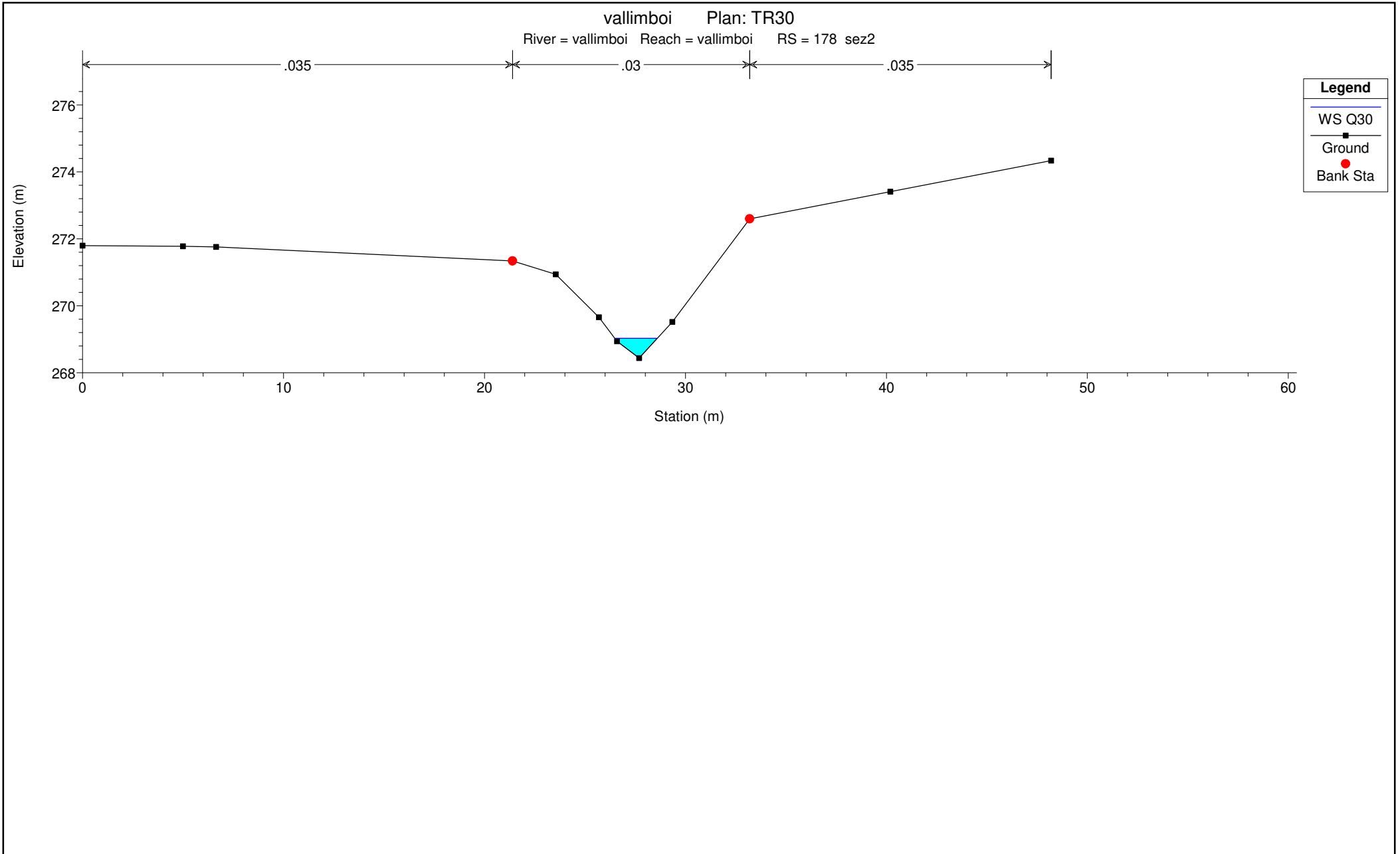
1 cm Horiz. = 2.5 m 1 cm Vert. = 1.5 m



1 cm Horiz. = 2.5 m 1 cm Vert. = 1.5 m



1 cm Horiz. = 2.5 m 1 cm Vert. = 1.5 m



1 cm Horiz. = 2.5 m 1 cm Vert. = 1.5 m

HEC-RAS Plan: tr30 River: vallimboi Reach: vallimboi Profile: Q30

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
vallimboi	692	Q30	2.00	278.30	278.95	278.95	279.16	0.015309	2.04	0.98	2.36	1.01
vallimboi	615	Q30	2.00	277.22	278.01	278.19	278.53	0.051768	3.20	0.63	1.40	1.53
vallimboi	516	Q30	2.00	276.52	277.11	277.21	277.37	0.026255	2.50	1.02	4.72	1.15
vallimboi	403	Q30	2.00	274.04	275.23	274.75	275.24	0.000544	0.56	5.04	14.22	0.21
vallimboi	353	Q30	2.00	274.17	274.95	274.95	275.19	0.016016	2.16	0.93	2.42	0.97
vallimboi	304	Q30	2.00	273.04	273.51	273.75	274.58	0.136205	4.66	0.46	2.15	2.81
vallimboi	263	Q30	2.00	272.12	272.78	272.90	273.19	0.071269	2.83	0.71	3.40	1.98
vallimboi	262	Q30	2.00	270.67	270.86	271.18	272.97	0.471414	6.43	0.31	1.87	5.03
vallimboi	178	Q30	2.00	268.44	269.03	269.18	269.52	0.051459	3.12	0.64	2.11	1.80

HEC-RAS Plan: tr30 River: vallimboi Reach: vallimboi Profile: Q30

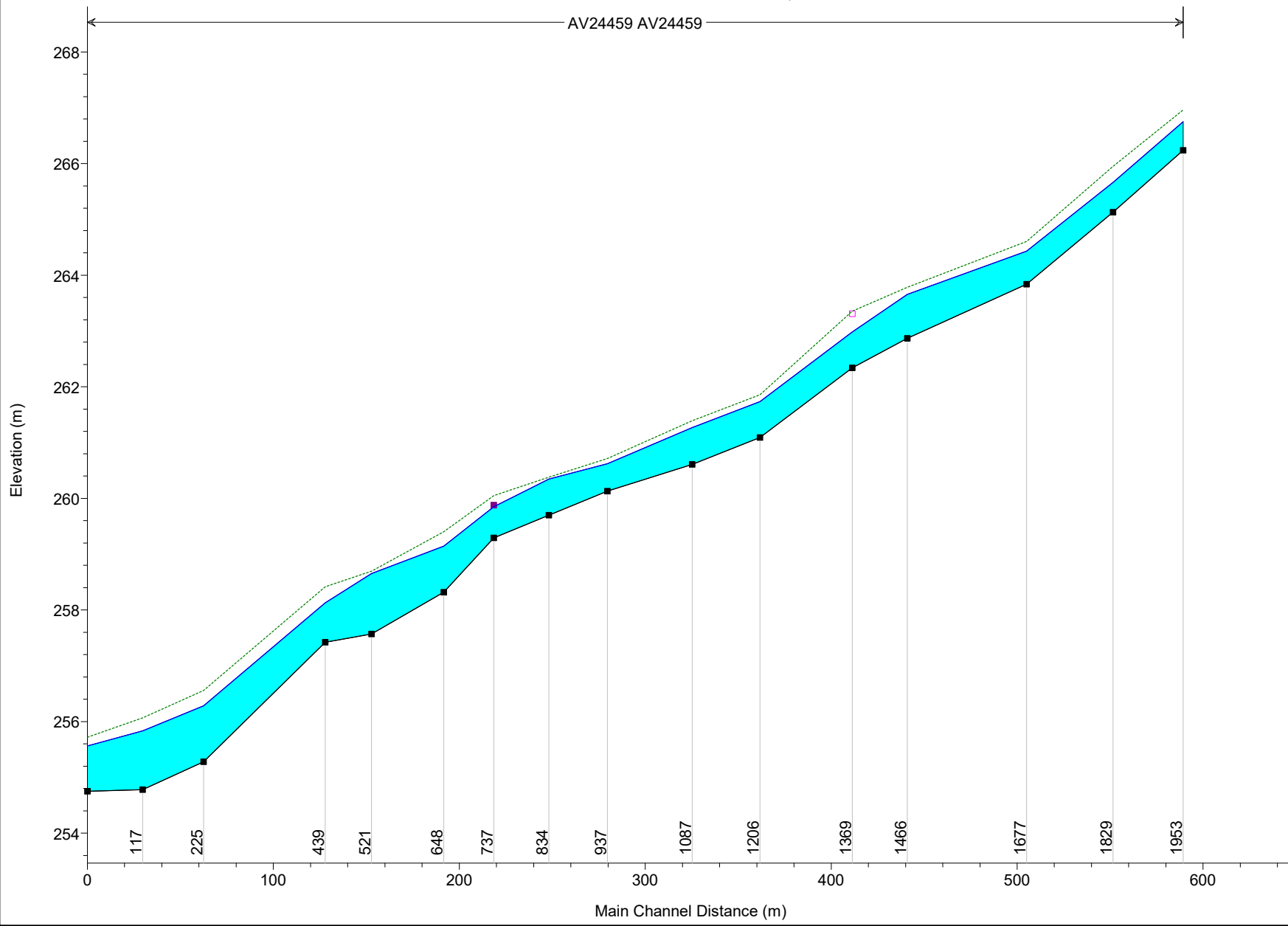
Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Vel Head (m)	Frctn Loss (m)	C & E Loss (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Top Width (m)
vallimboi	692	Q30	279.16	278.95	0.21	0.60	0.03		2.00		2.36
vallimboi	615	Q30	278.53	278.01	0.52	1.09	0.08		2.00		1.40
vallimboi	516	Q30	277.37	277.11	0.26	0.05	0.03	0.42	1.58		4.72
vallimboi	403	Q30	275.24	275.23	0.01	0.02	0.02		1.28	0.72	14.22
vallimboi	353	Q30	275.19	274.95	0.24	0.53	0.08		2.00	0.00	2.42
vallimboi	304	Q30	274.58	273.51	1.07	1.19	0.20	0.07	1.93		2.15
vallimboi	263	Q30	273.19	272.78	0.41	0.04	0.17		2.00		3.40
vallimboi	262	Q30	272.97	270.86	2.11	2.97	0.48		2.00		1.87
vallimboi	178	Q30	269.52	269.03	0.50				2.00		2.11

OUTPUT HEC-RAS
TR200

FOSSO AV24459

AV24459 Plan: Q200

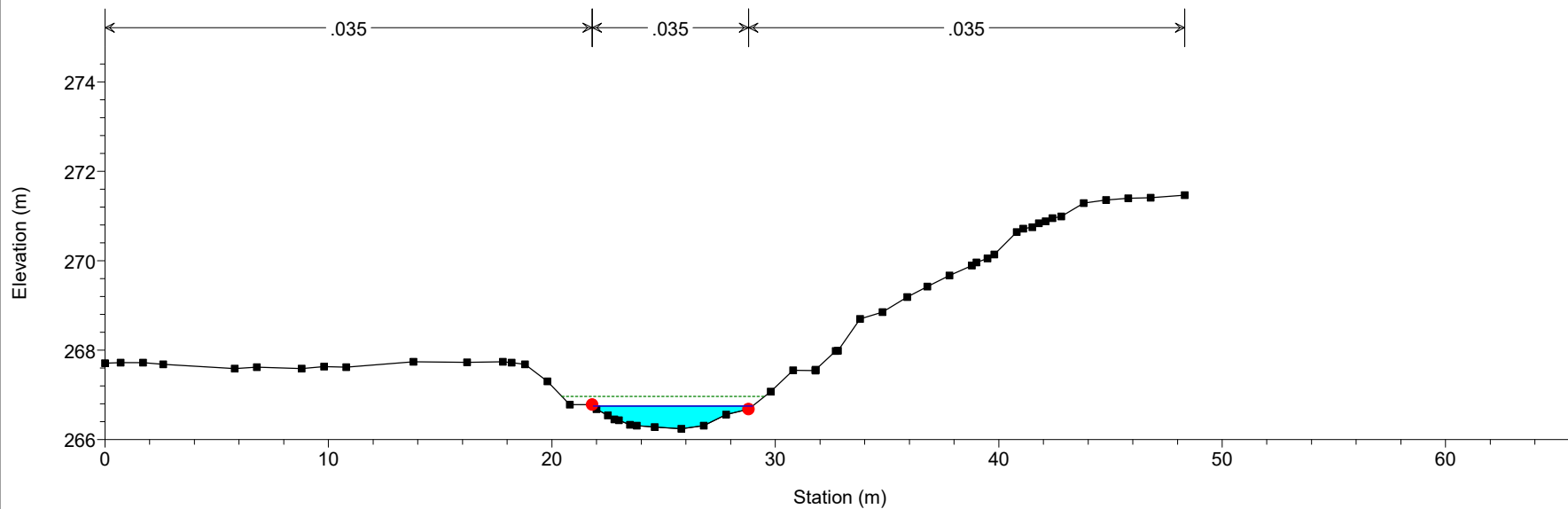
AV24459 AV24459



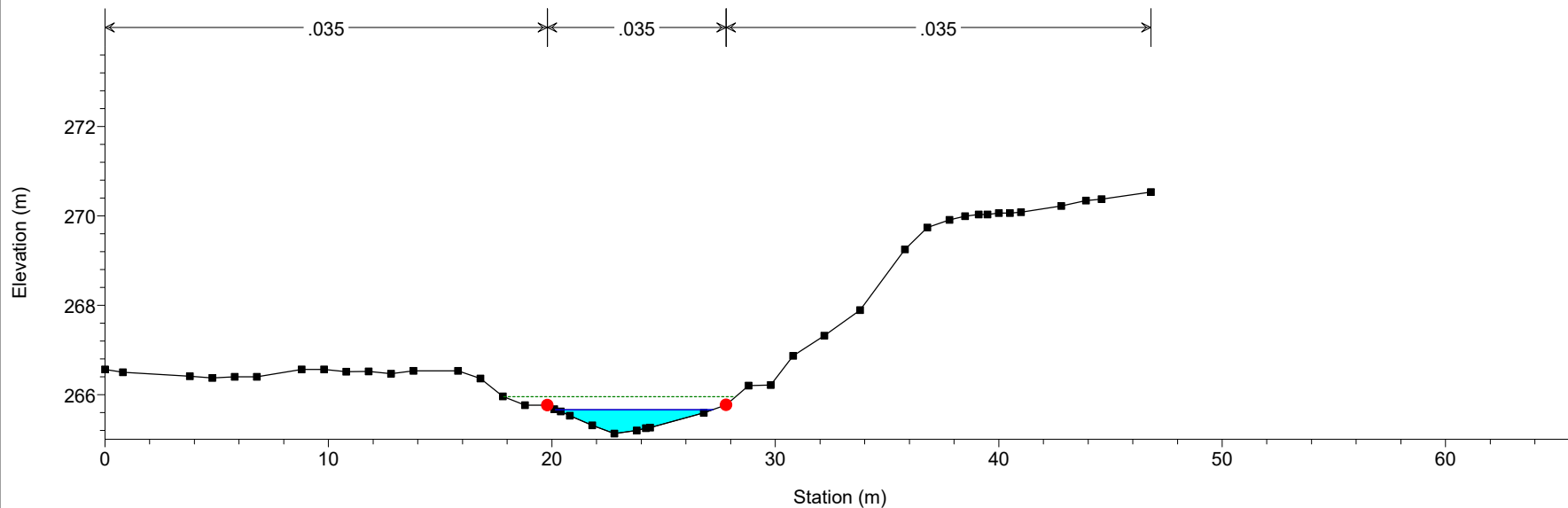
Legend	
EG Max WS	(Green dashed line)
WS Max WS	(Blue solid line)
Ground	(Black solid line)
Left Levee	(Pink square)
Right Levee	(Purple square)

1 cm Horiz. = 30 m 1 cm Vert. = 1 m

AV24459 Plan: Q200

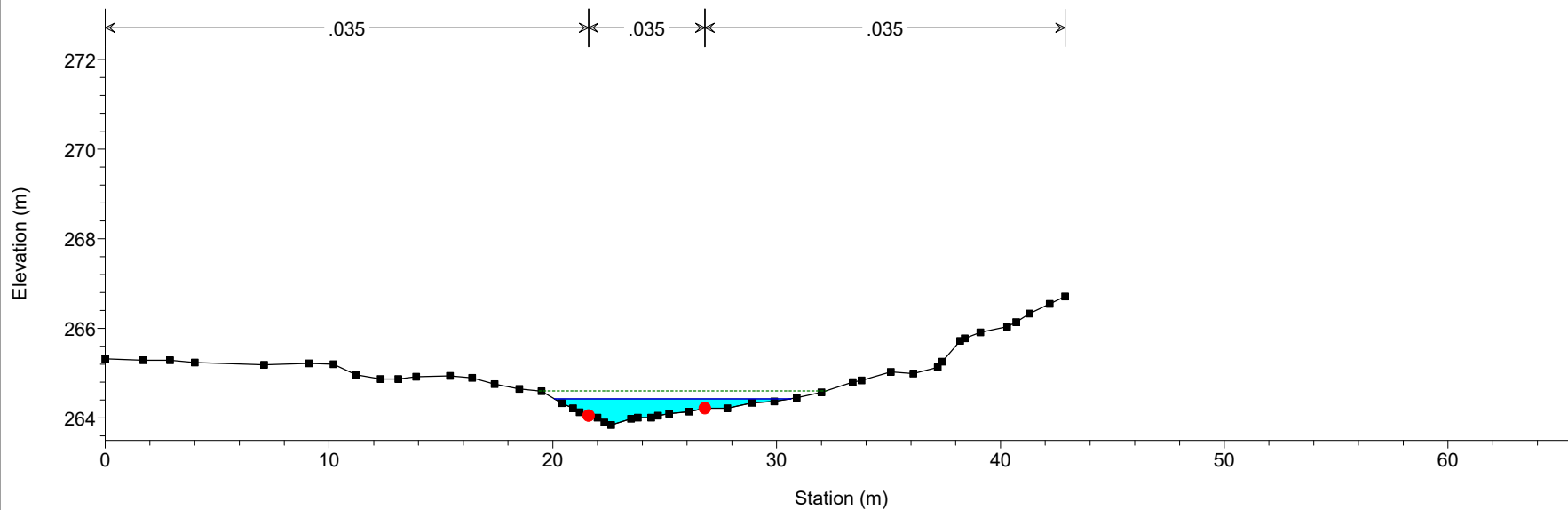


AV24459 Plan: Q200

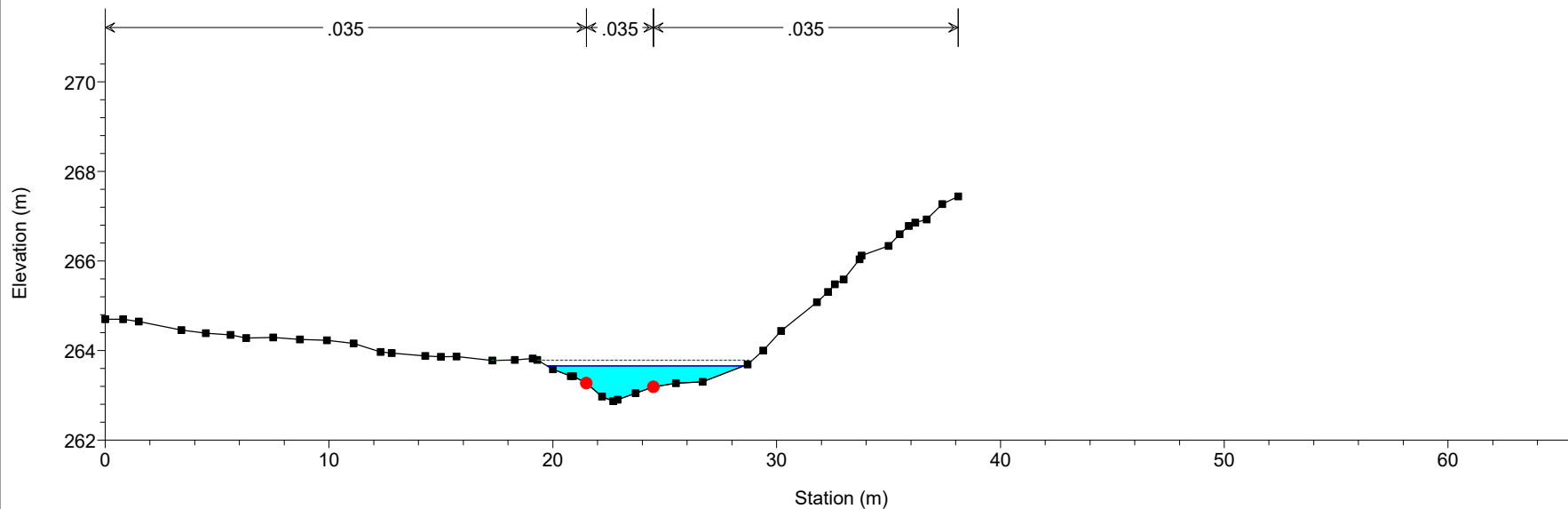


1 cm Horiz. = 3 m 1 cm Vert. = 1.5 m

AV24459 Plan: Q200

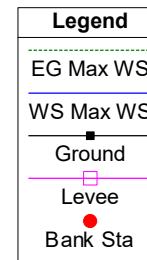
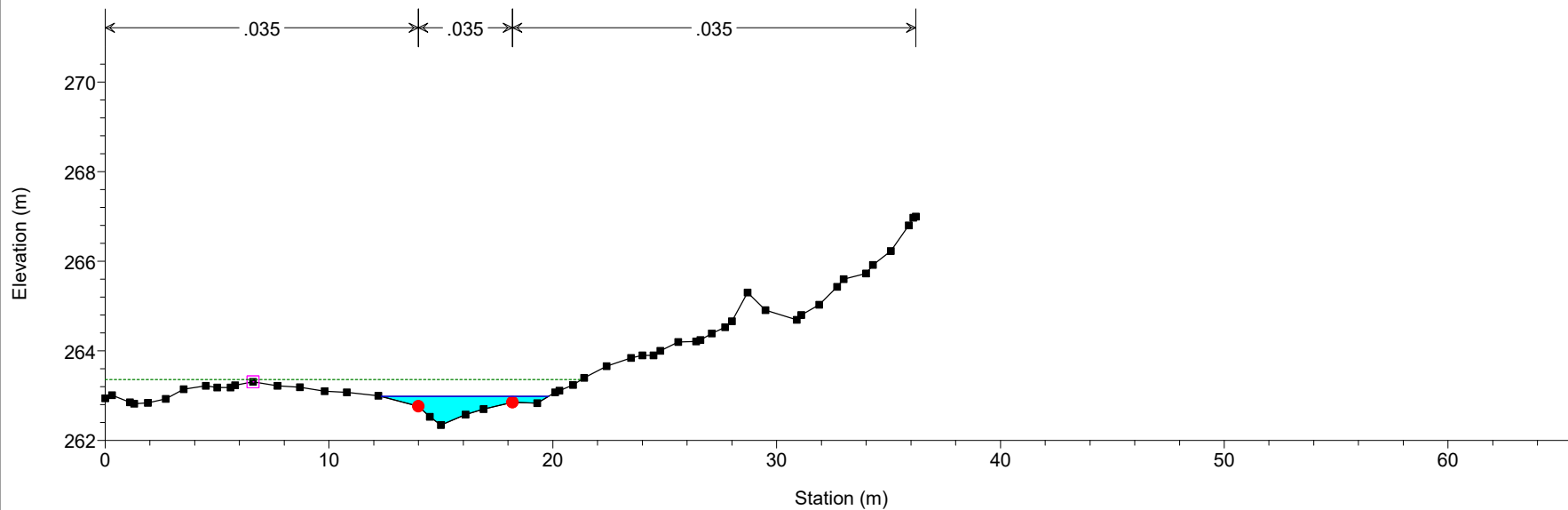


AV24459 Plan: Q200

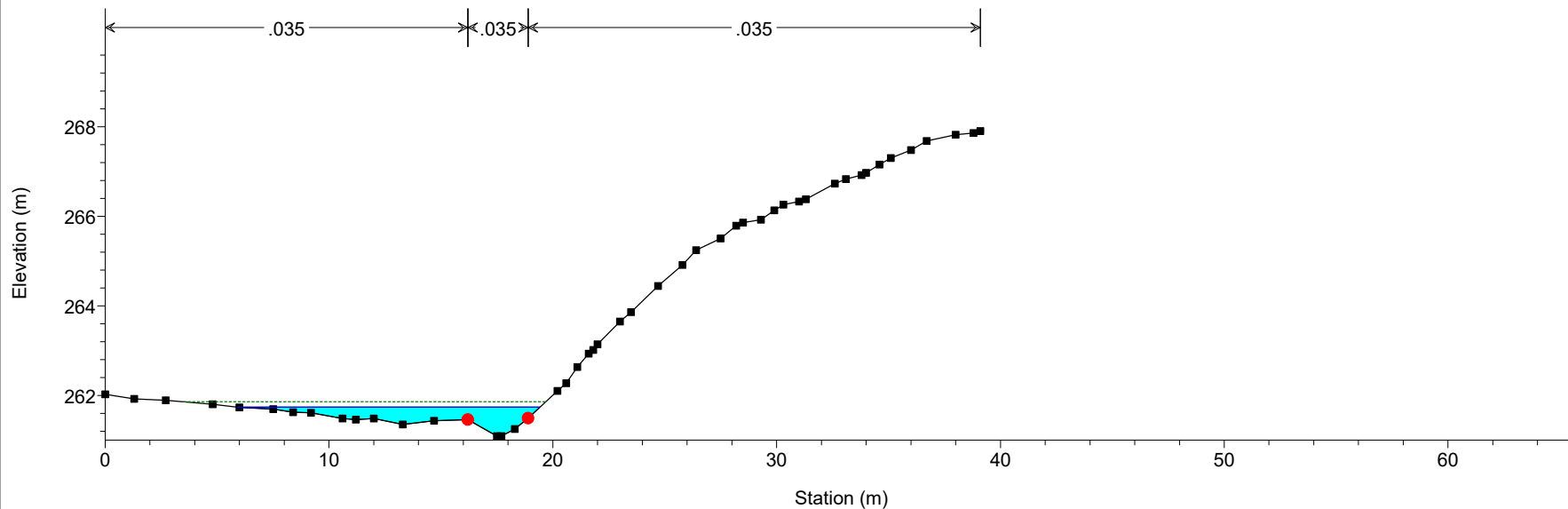


1 cm Horiz. = 3 m 1 cm Vert. = 1.5 m

AV24459 Plan: Q200

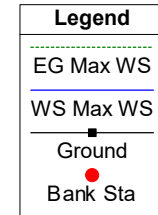
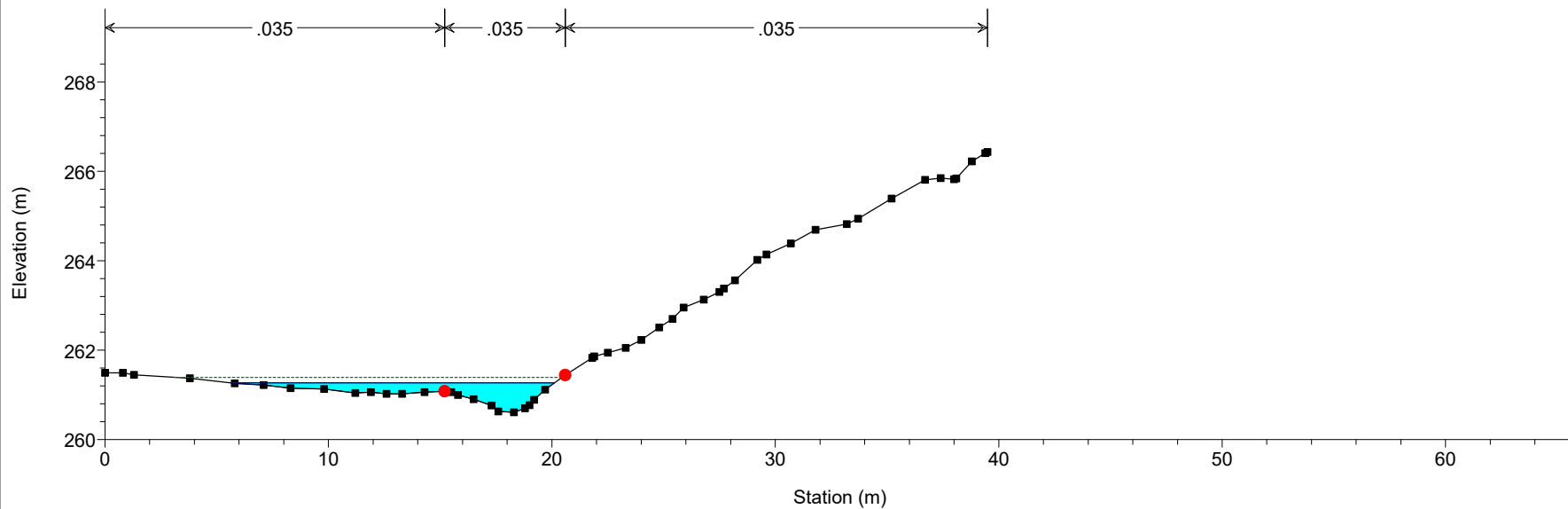


AV24459 Plan: Q200

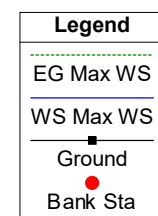
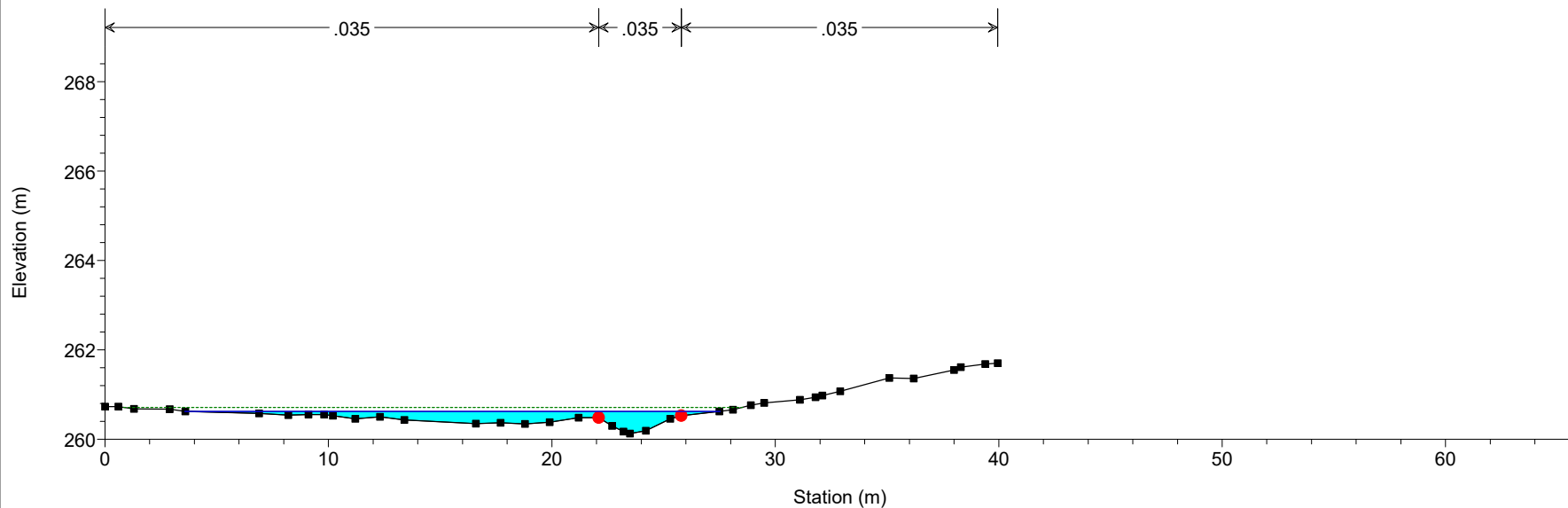


1 cm Horiz. = 3 m 1 cm Vert. = 1.5 m

AV24459 Plan: Q200

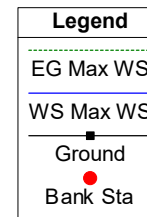
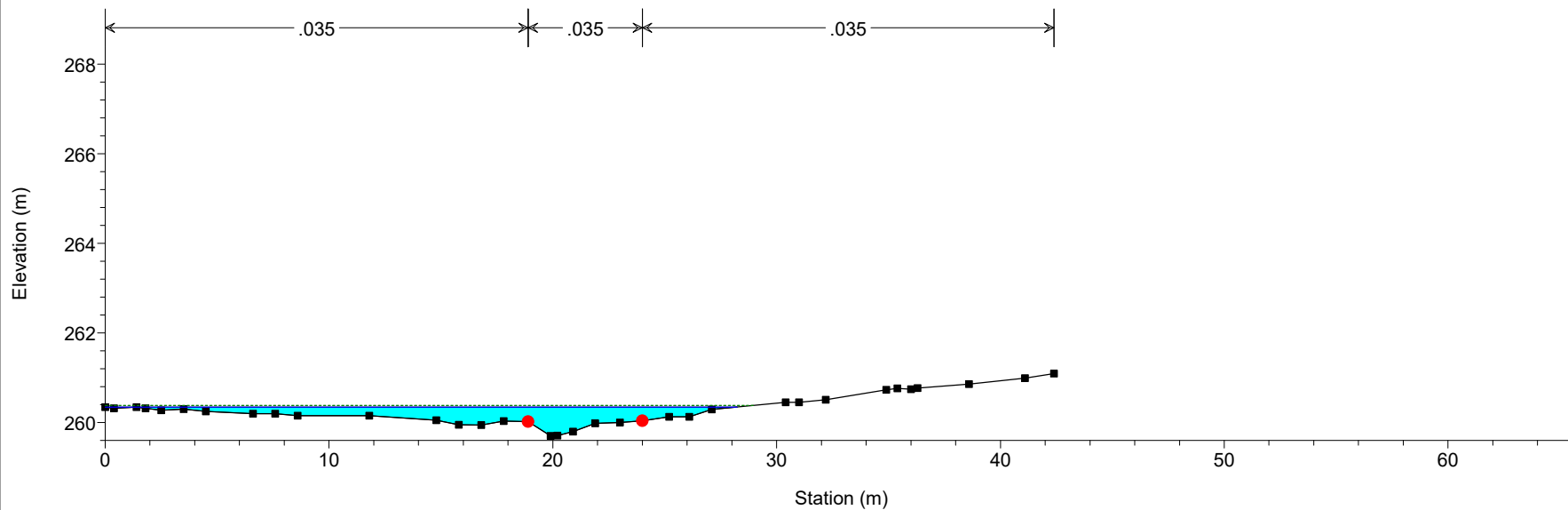


AV24459 Plan: Q200

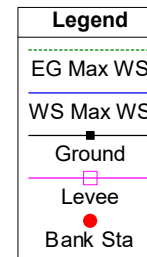
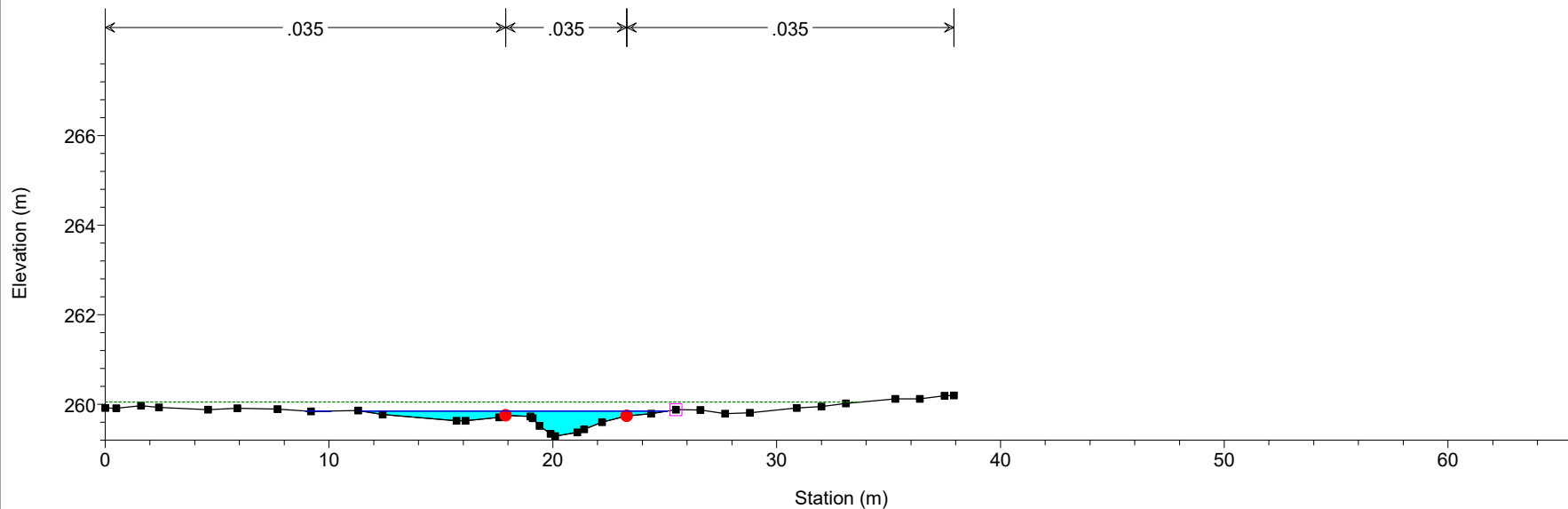


1 cm Horiz. = 3 m 1 cm Vert. = 1.5 m

AV24459 Plan: Q200

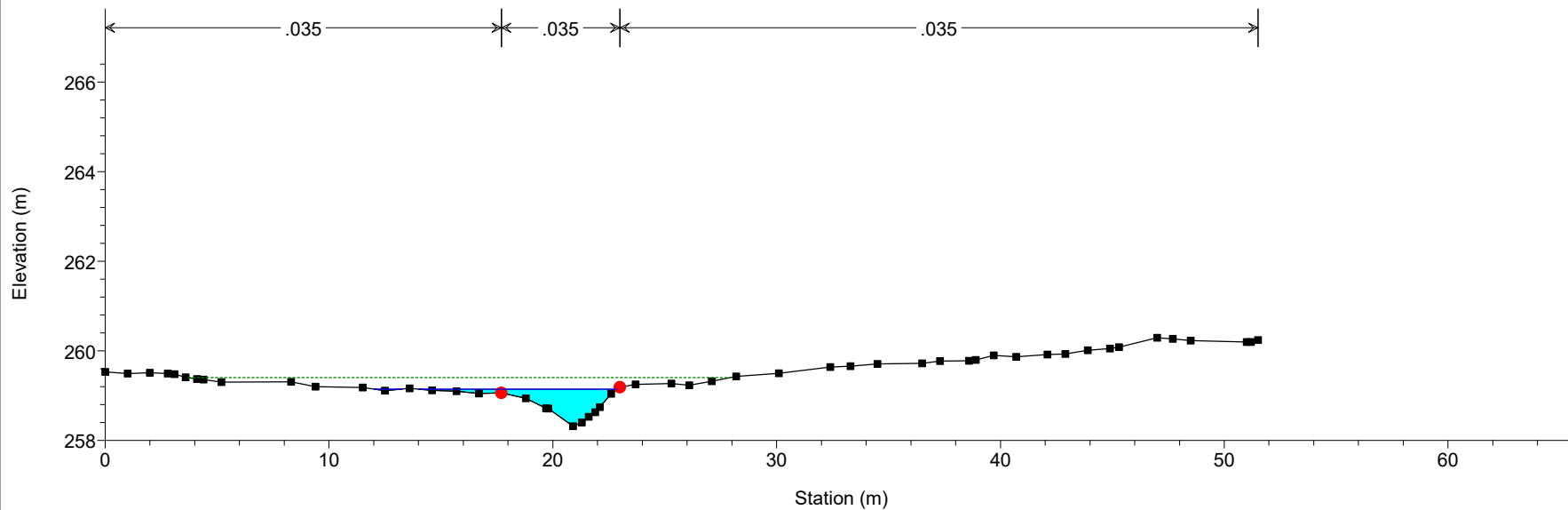


AV24459 Plan: Q200

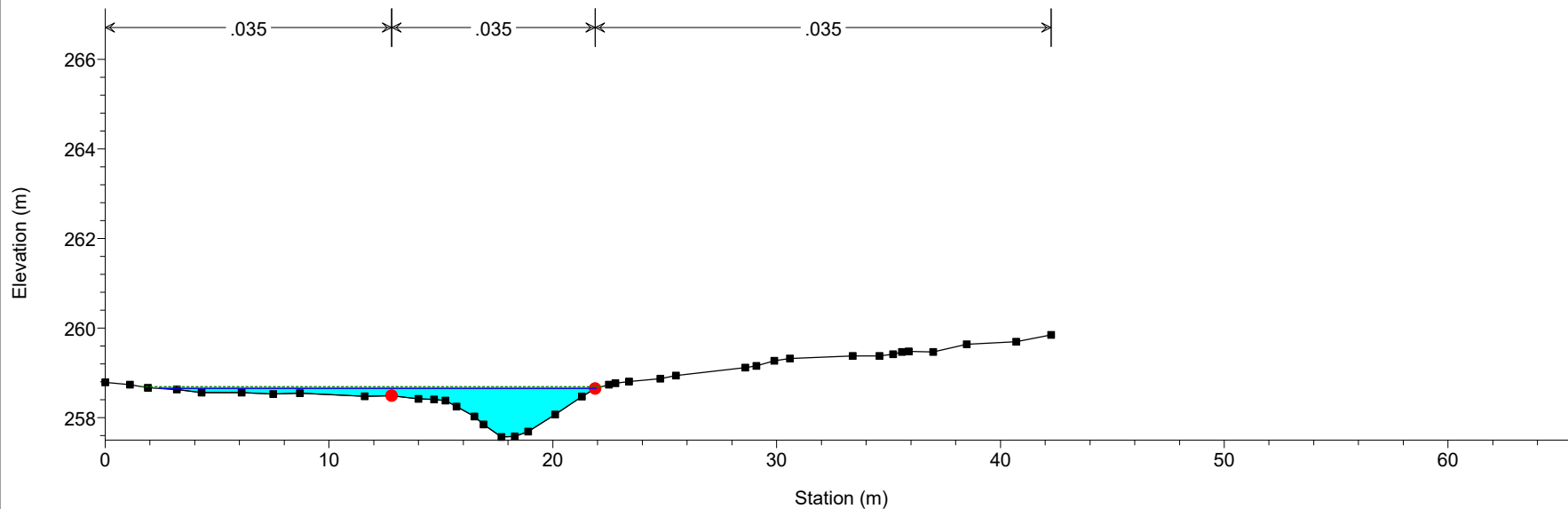


1 cm Horiz. = 3 m 1 cm Vert. = 1.5 m

AV24459 Plan: Q200

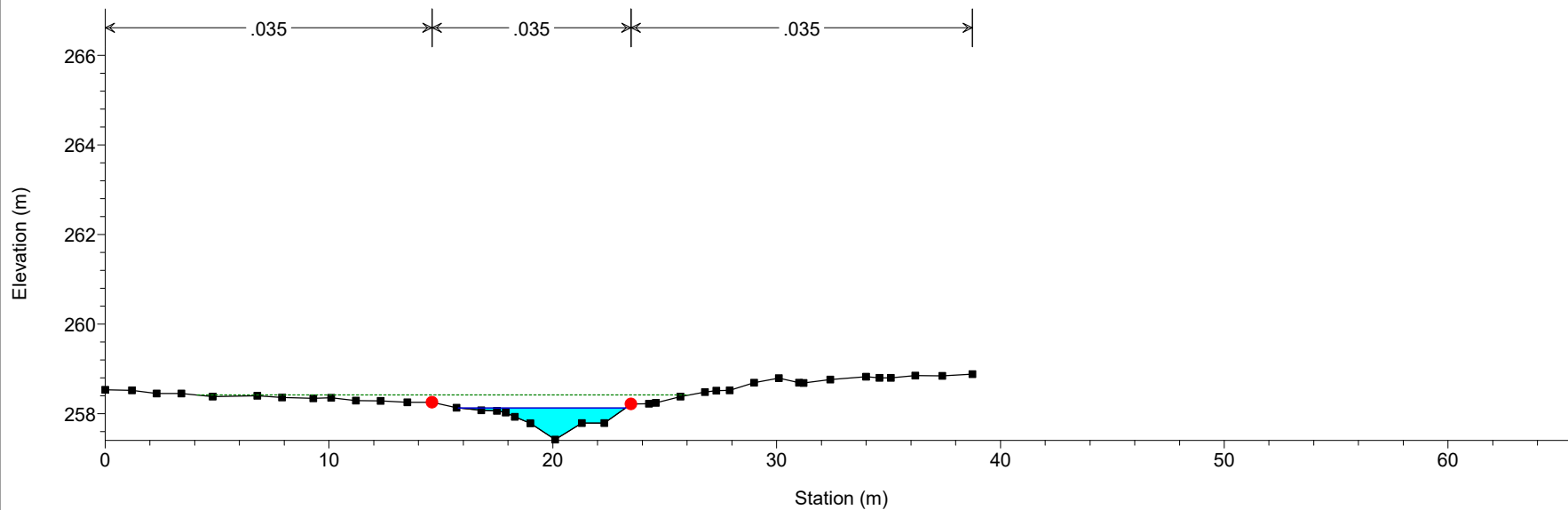


AV24459 Plan: Q200

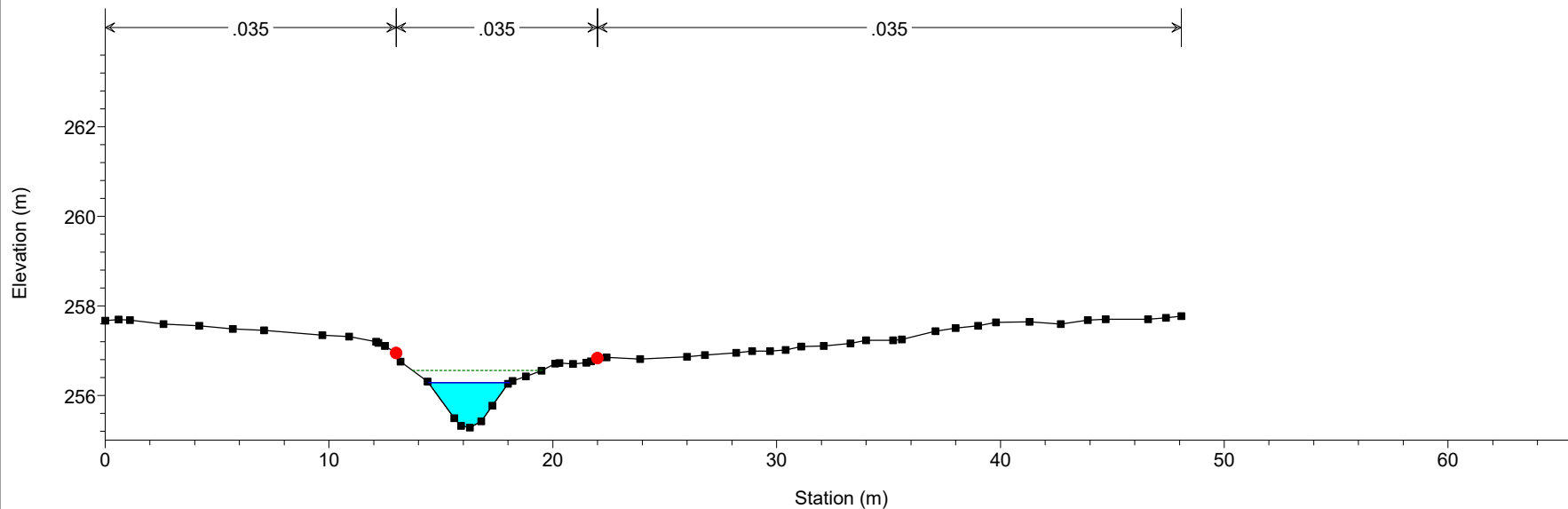


1 cm Horiz. = 3 m 1 cm Vert. = 1.5 m

AV24459 Plan: Q200

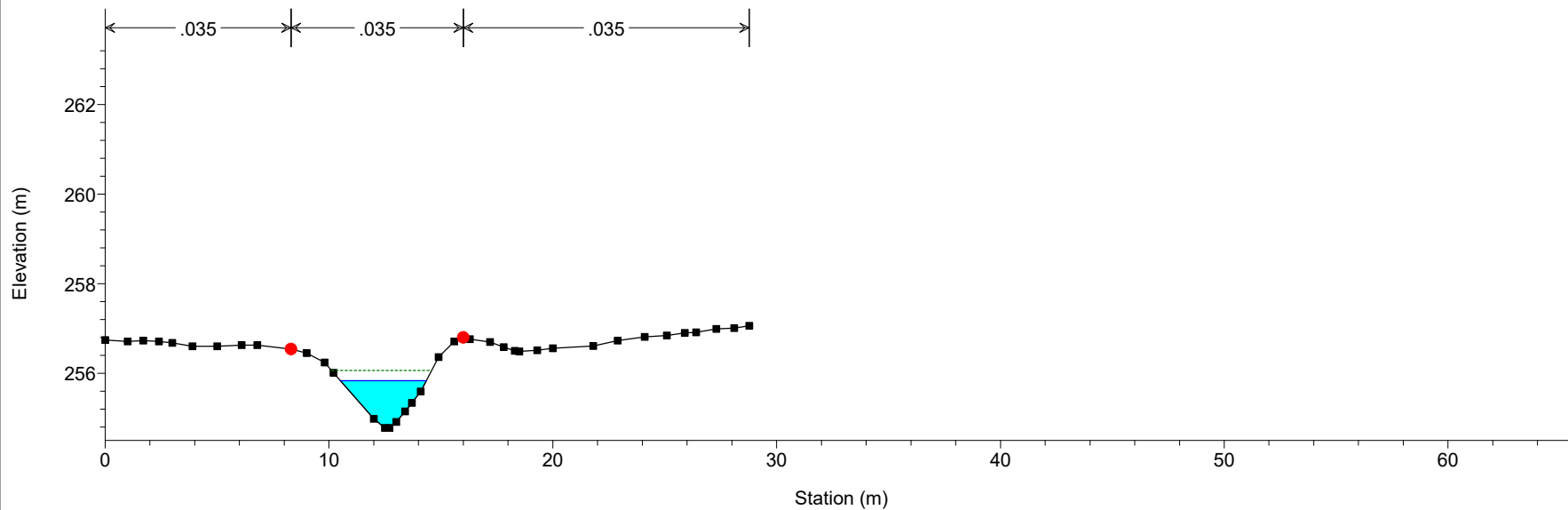


AV24459 Plan: Q200



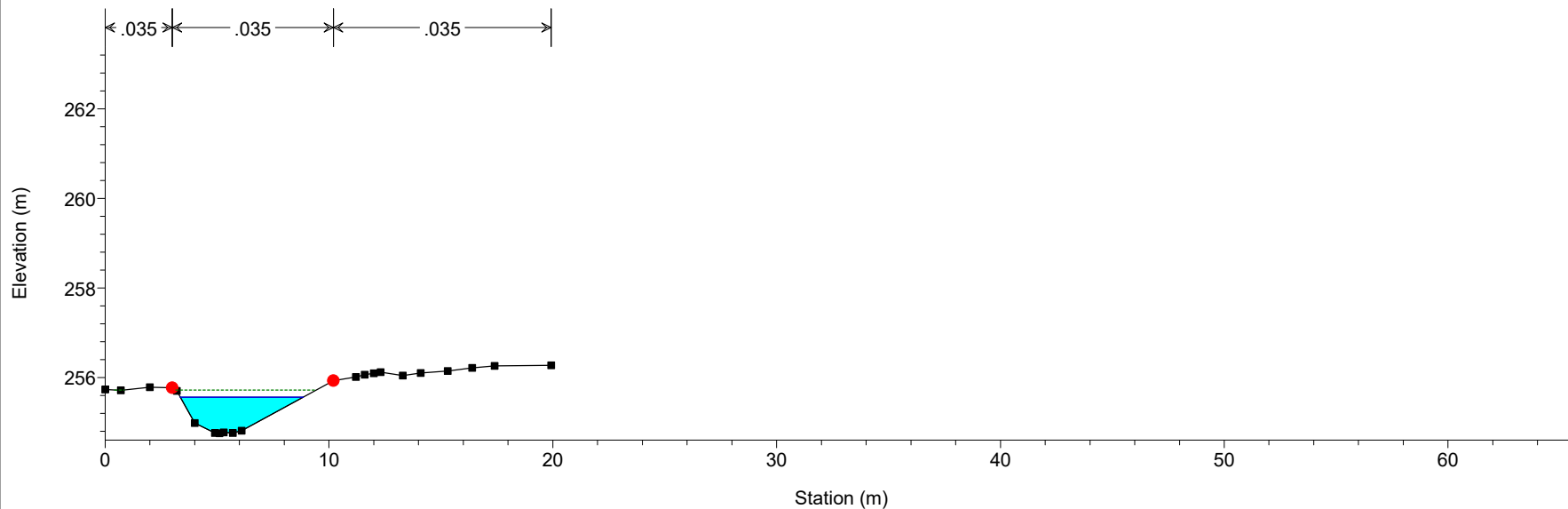
1 cm Horiz. = 3 m 1 cm Vert. = 1.5 m

AV24459 Plan: Q200



Legend	
---	EG Max WS
—	WS Max WS
■	Ground
●	Bank Sta

AV24459 Plan: Q200



Legend	
---	EG Max WS
—	WS Max WS
■	Ground
●	Bank Sta

1 cm Horiz. = 3 m 1 cm Vert. = 1.5 m

HEC-RAS Plan: Q200 River: AV24459 Reach: AV24459 Profile: Max WS

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
AV24459	1953	Max WS	4.90	266.24	266.75	266.78	266.96	0.021383	2.04	2.41	7.12	1.11
AV24459	1829	Max WS	4.90	265.13	265.66	265.74	265.95	0.036476	2.38	2.06	7.05	1.41
AV24459	1677	Max WS	4.90	263.84	264.43	264.45	264.61	0.016653	1.98	2.84	10.57	1.00
AV24459	1466	Max WS	4.90	262.87	263.66		263.78	0.007521	1.77	3.41	8.78	0.72
AV24459	1369	Max WS	4.90	262.34	262.98	263.12	263.36	0.038188	2.82	1.94	7.47	1.48
AV24459	1206	Max WS	4.90	261.09	261.74	261.72	261.86	0.012210	1.87	3.53	13.52	0.87
AV24459	1087	Max WS	4.90	260.61	261.27	261.28	261.39	0.013251	1.76	3.47	14.46	0.88
AV24459	937	Max WS	4.90	260.13	260.62	260.63	260.71	0.016445	1.69	4.03	23.98	0.95
AV24459	834	Max WS	4.90	259.70	260.34		260.38	0.004108	1.05	6.51	28.23	0.51
AV24459	737	Max WS	4.90	259.29	259.85	259.94	260.05	0.029765	2.19	2.67	14.86	1.27
AV24459	648	Max WS	4.90	258.32	259.14	259.24	259.40	0.022771	2.28	2.32	10.10	1.14
AV24459	521	Max WS	4.90	257.57	258.65		258.70	0.002538	0.93	6.01	19.52	0.41
AV24459	439	Max WS	4.89	257.42	258.13	258.21	258.41	0.040148	2.38	2.06	7.49	1.45
AV24459	225	Max WS	4.89	255.28	256.28	256.26	256.56	0.016587	2.32	2.11	3.63	0.97
AV24459	117	Max WS	4.89	254.78	255.83		256.07	0.013342	2.13	2.30	3.84	0.88
AV24459	20	Max WS	4.89	254.75	255.56	255.47	255.72	0.010034	1.75	2.80	5.50	0.78

HEC-RAS Plan: Q200 River: AV24459 Reach: AV24459 Profile: Max WS

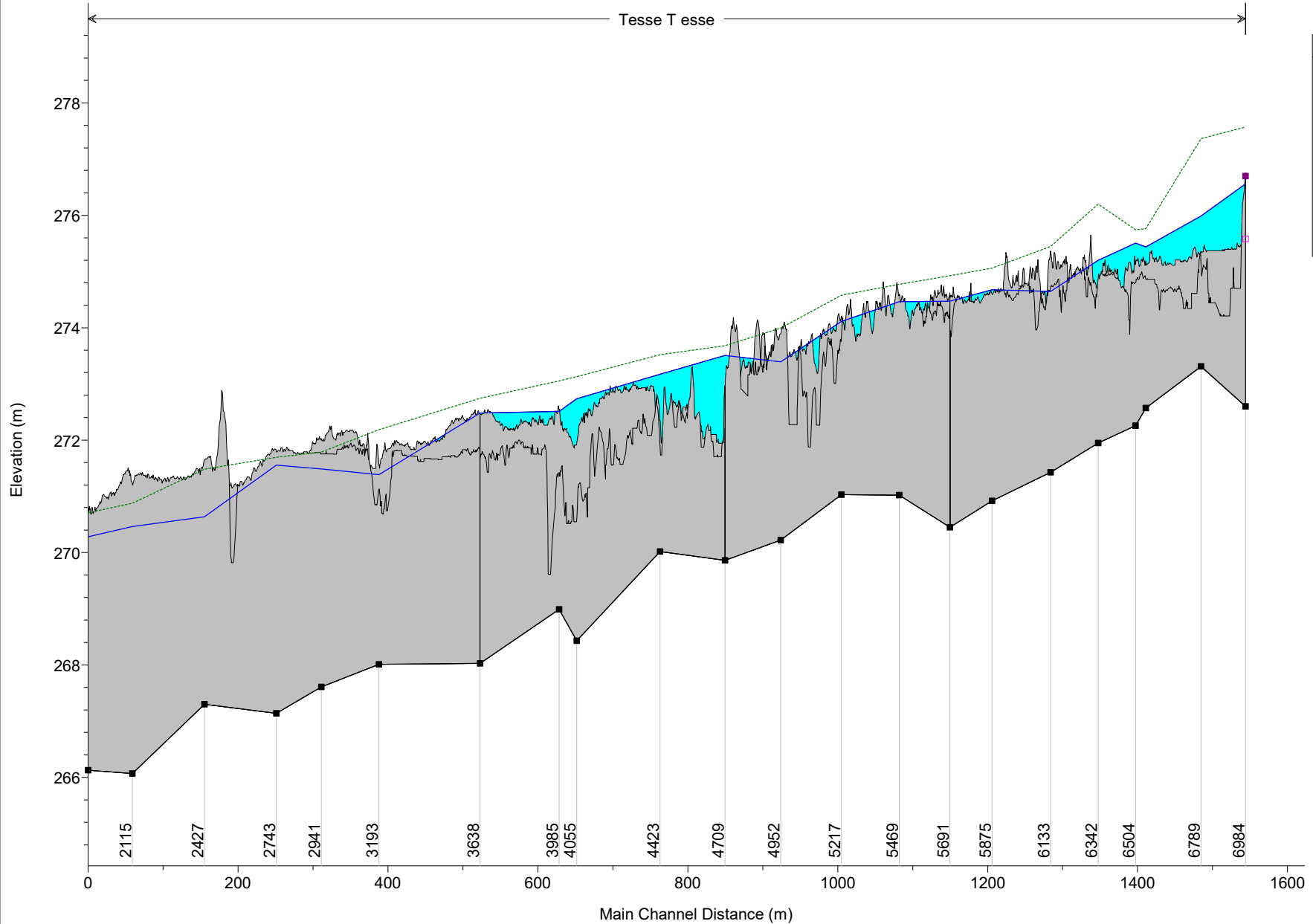
Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Vel Head (m)	Frctn Loss (m)	C & E Loss (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Top Width (m)
AV24459	1953	Max WS	266.96	266.75	0.21	1.09			4.90	0.00	7.12
AV24459	1829	Max WS	265.95	265.66	0.29	1.24			4.90		7.05
AV24459	1677	Max WS	264.61	264.43	0.18	0.78		0.38	4.10	0.43	10.57
AV24459	1466	Max WS	263.78	263.66	0.13	0.68		0.27	3.31	1.31	8.78
AV24459	1369	Max WS	263.36	262.98	0.37	1.25		0.24	4.40	0.26	7.47
AV24459	1206	Max WS	261.86	261.74	0.12	0.46		2.44	2.41	0.05	13.52
AV24459	1087	Max WS	261.39	261.27	0.13	0.68		1.40	3.50		14.46
AV24459	937	Max WS	260.71	260.62	0.09	0.32		2.84	2.02	0.04	23.98
AV24459	834	Max WS	260.38	260.34	0.04	0.50		2.15	2.38	0.36	28.23
AV24459	737	Max WS	260.05	259.85	0.20	0.71		1.23	3.58	0.09	14.86
AV24459	648	Max WS	259.40	259.14	0.26	0.49		0.13	4.77		10.10
AV24459	521	Max WS	258.70	258.65	0.04	0.53		0.38	4.52	0.00	19.52
AV24459	439	Max WS	258.41	258.13	0.29	1.86			4.89		7.49
AV24459	225	Max WS	256.56	256.28	0.27	0.49			4.89		3.63
AV24459	117	Max WS	256.07	255.83	0.23	0.35			4.89		3.84
AV24459	20	Max WS	255.72	255.56	0.16				4.89		5.50

OUTPUT HEC-RAS
TR200

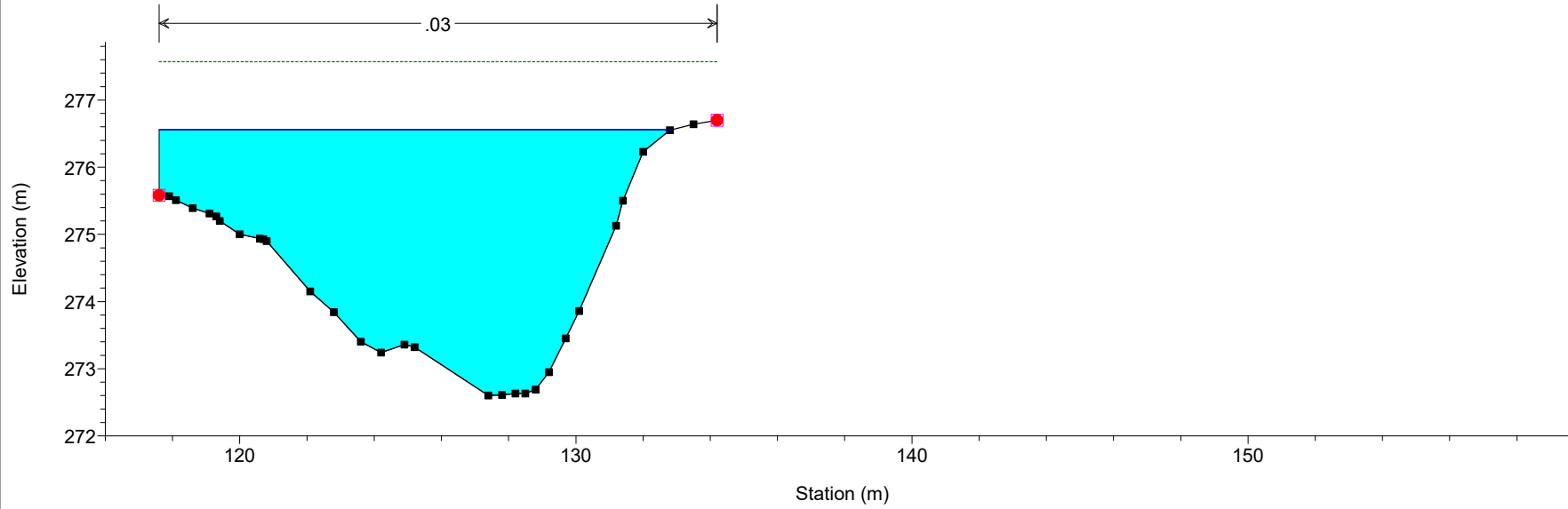
TORRENTE ESSE

T_esse Plan: Q200rev1

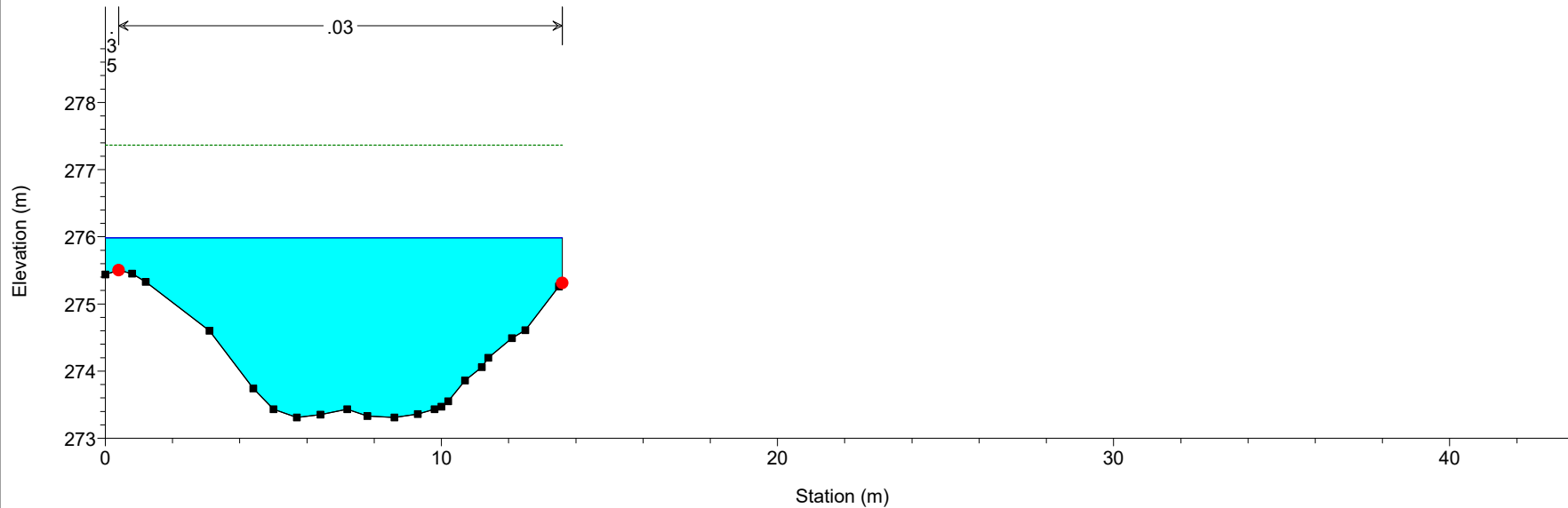
Tesse T esse



T_esse Plan: Q200rev1

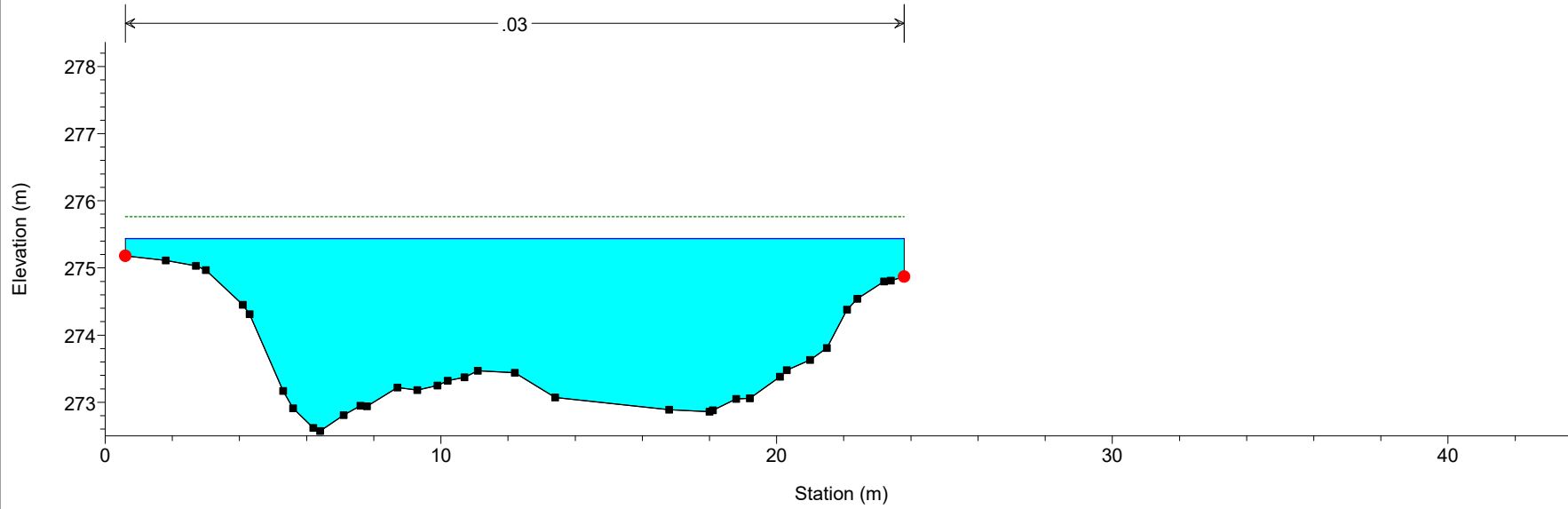


T_esse Plan: Q200rev1

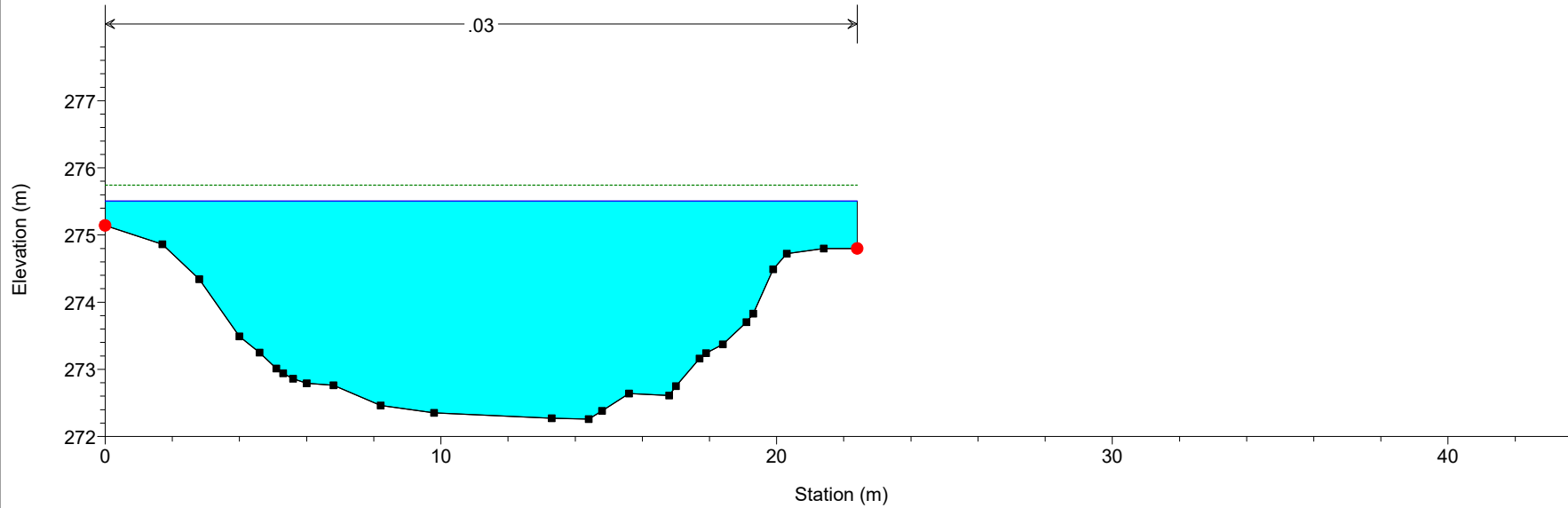


1 cm Horiz. = 2 m 1 cm Vert. = 1 m

T_esse Plan: Q200rev1

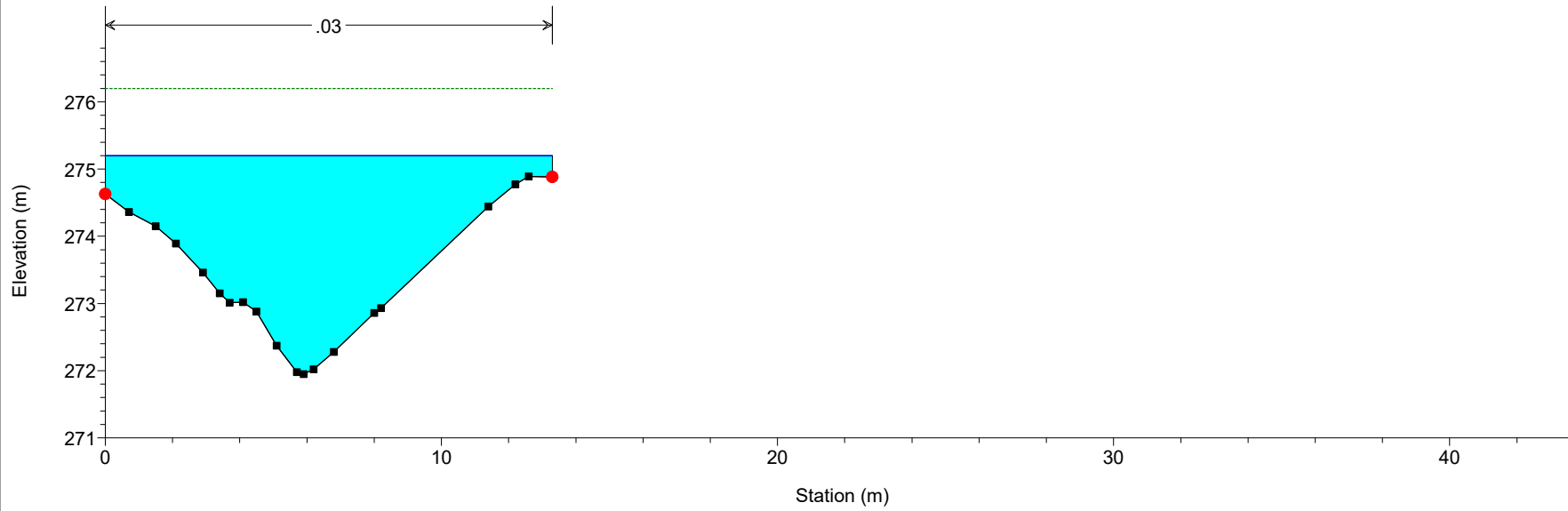


T_esse Plan: Q200rev1

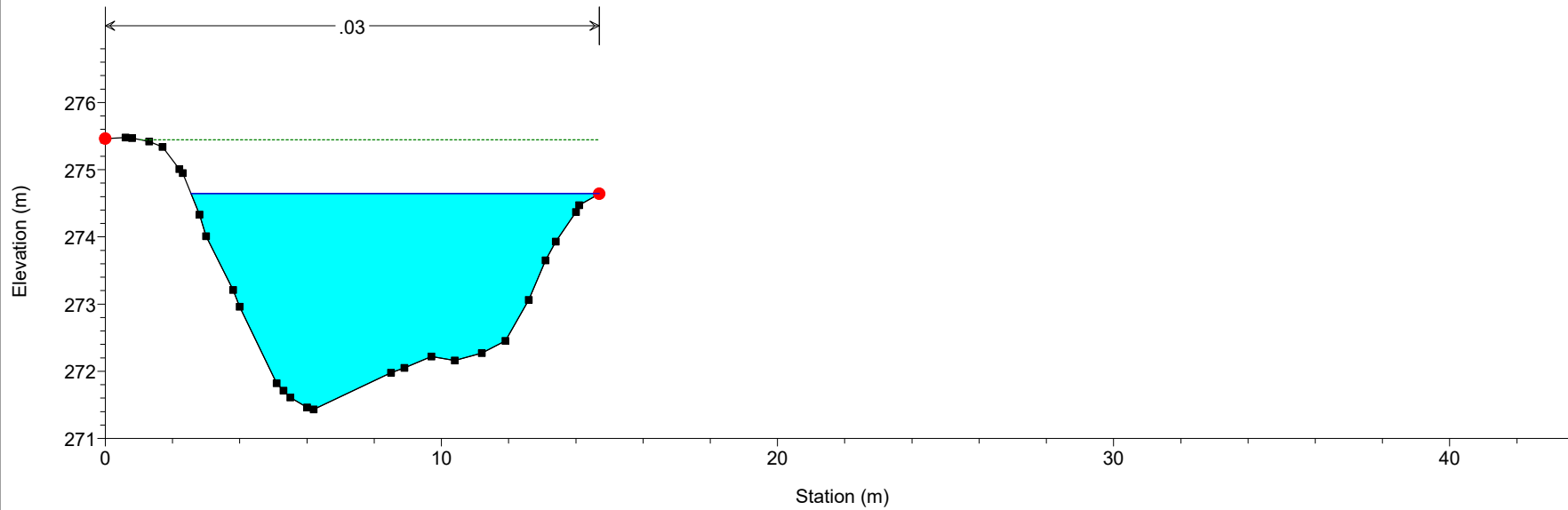


1 cm Horiz. = 2 m 1 cm Vert. = 1 m

T_esse Plan: Q200rev1

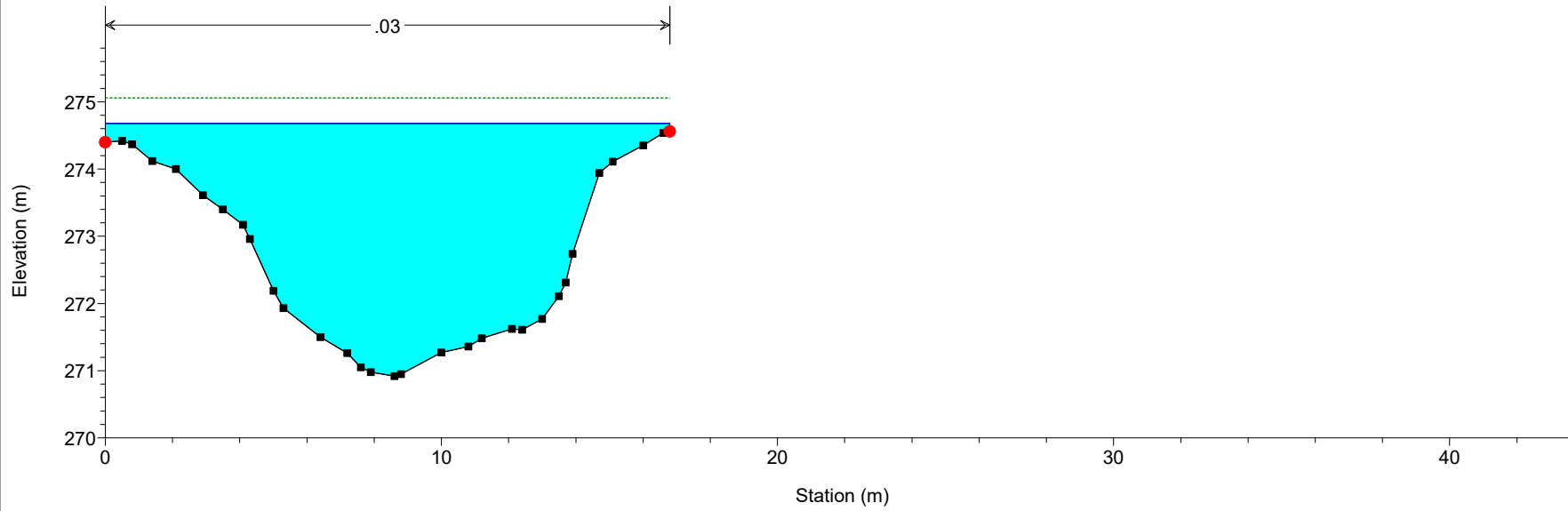


T_esse Plan: Q200rev1

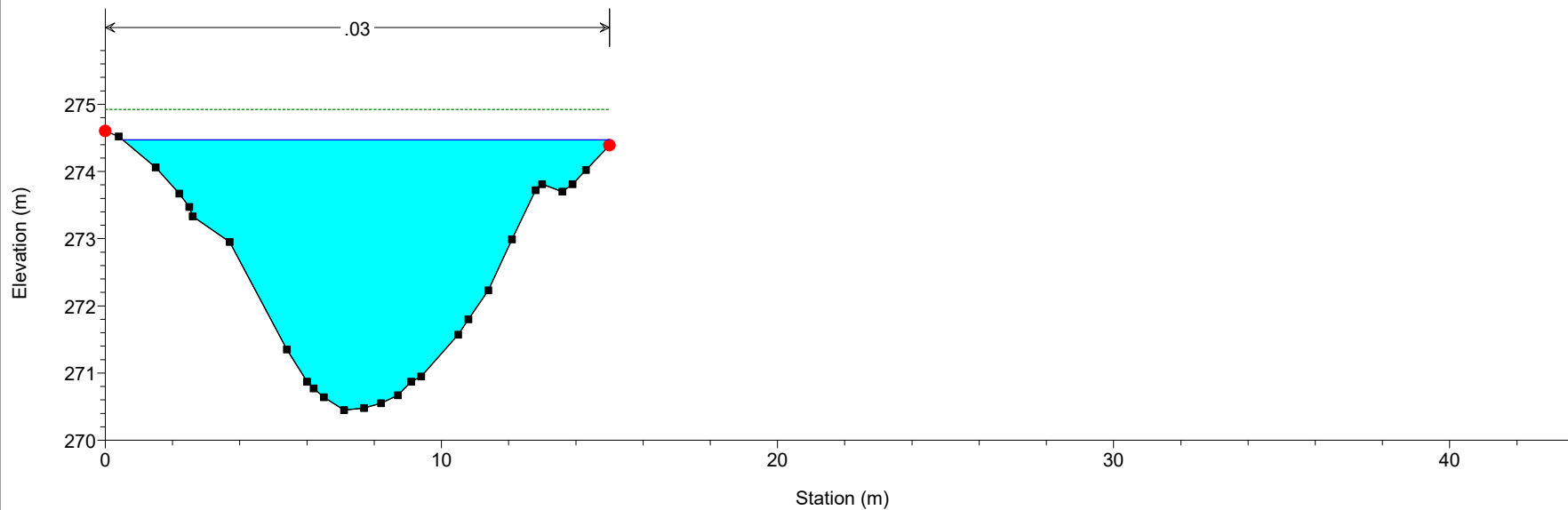


1 cm Horiz. = 2 m 1 cm Vert. = 1 m

T_esse Plan: Q200rev1

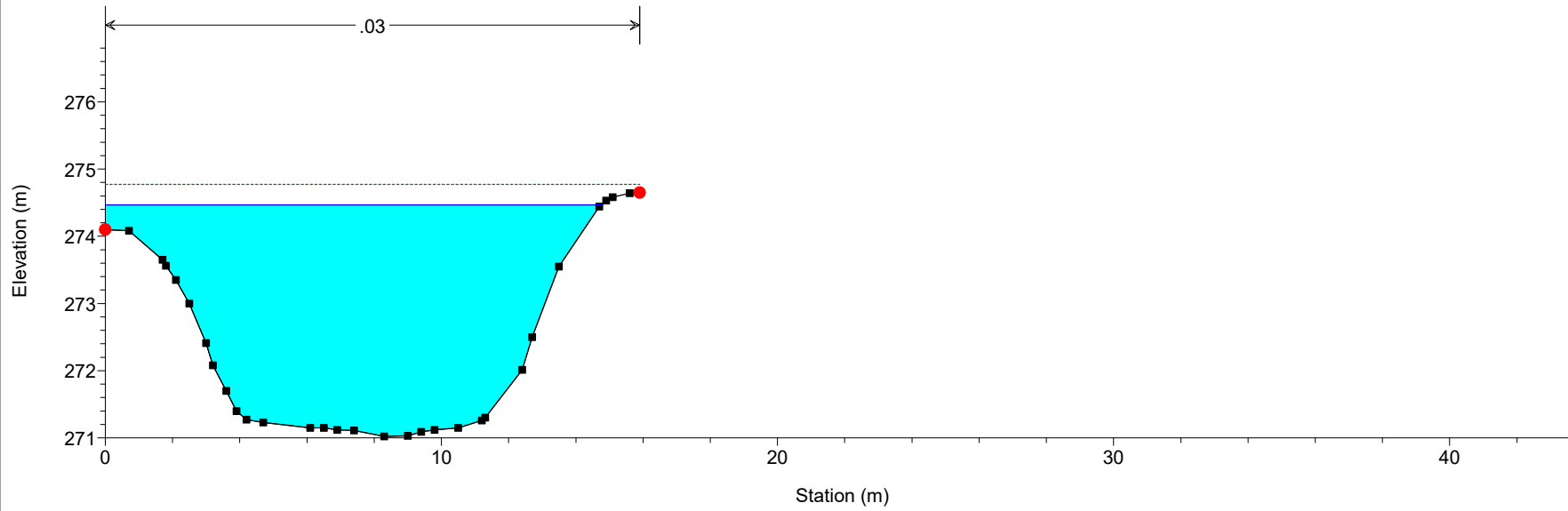


T_esse Plan: Q200rev1

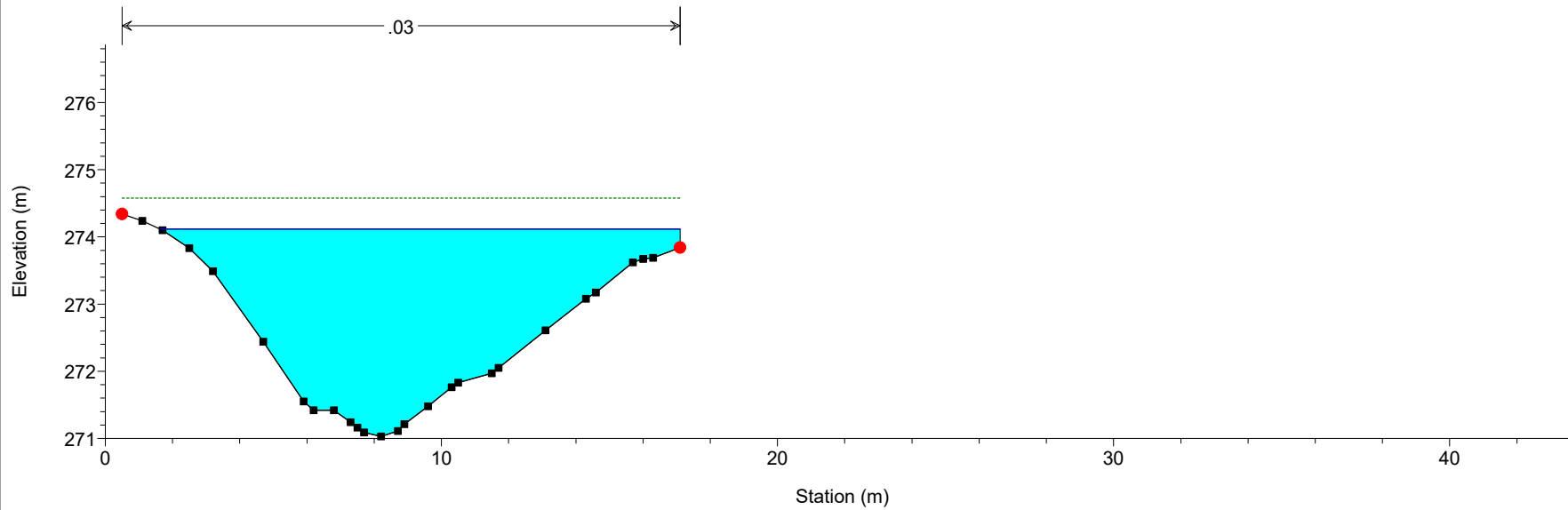


1 cm Horiz. = 2 m 1 cm Vert. = 1 m

T_esse Plan: Q200rev1

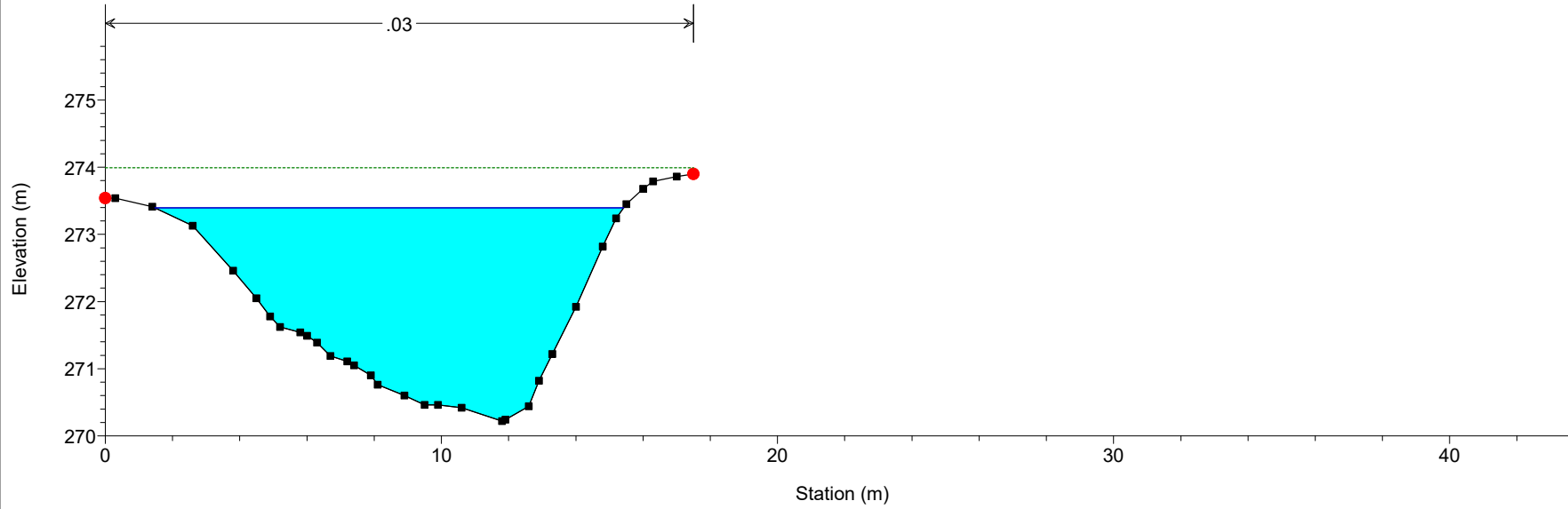


T_esse Plan: Q200rev1

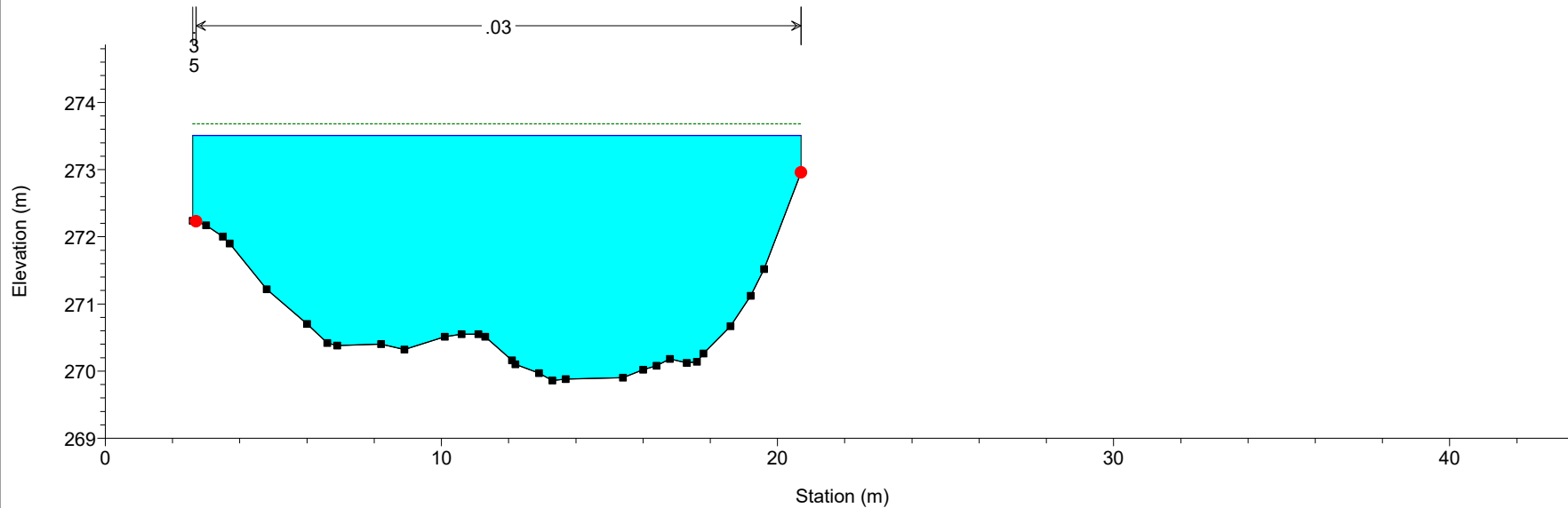


1 cm Horiz. = 2 m 1 cm Vert. = 1 m

T_esse Plan: Q200rev1

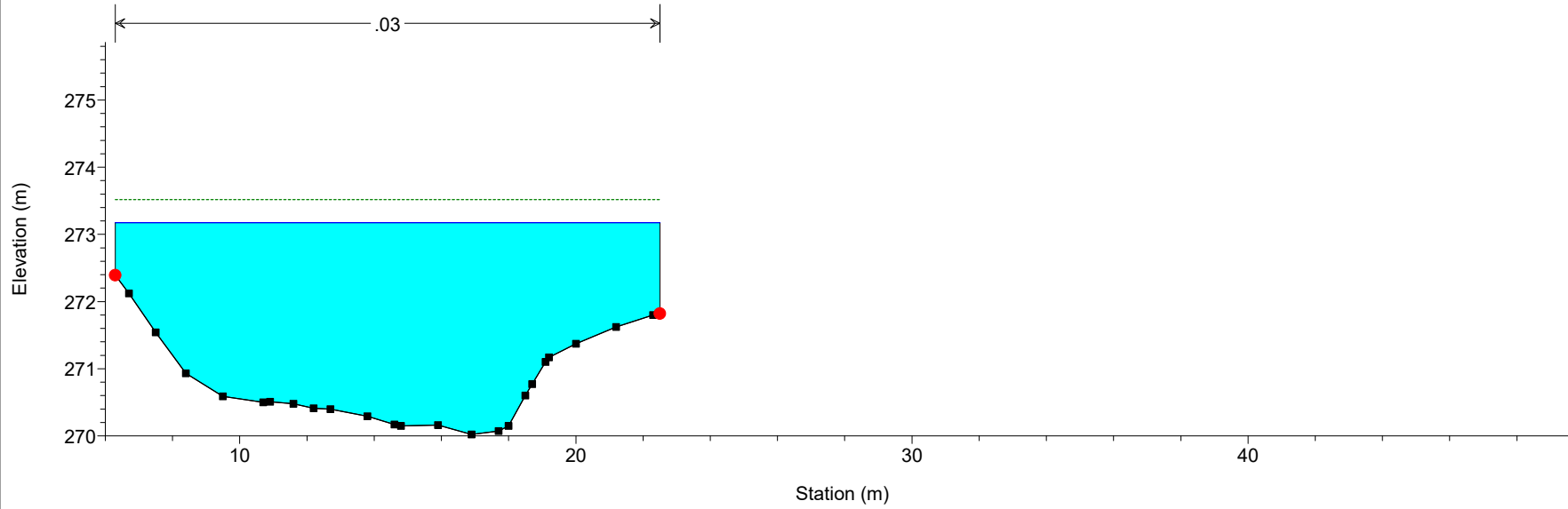


T_esse Plan: Q200rev1

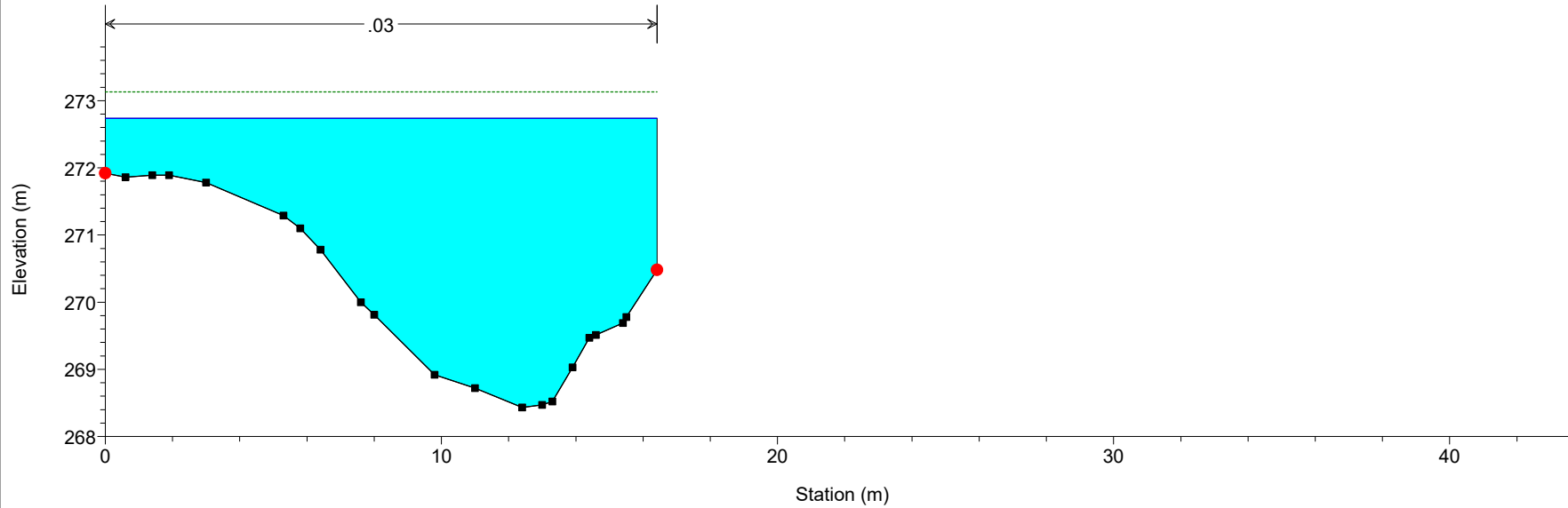


1 cm Horiz. = 2 m 1 cm Vert. = 1 m

T_esse Plan: Q200rev1

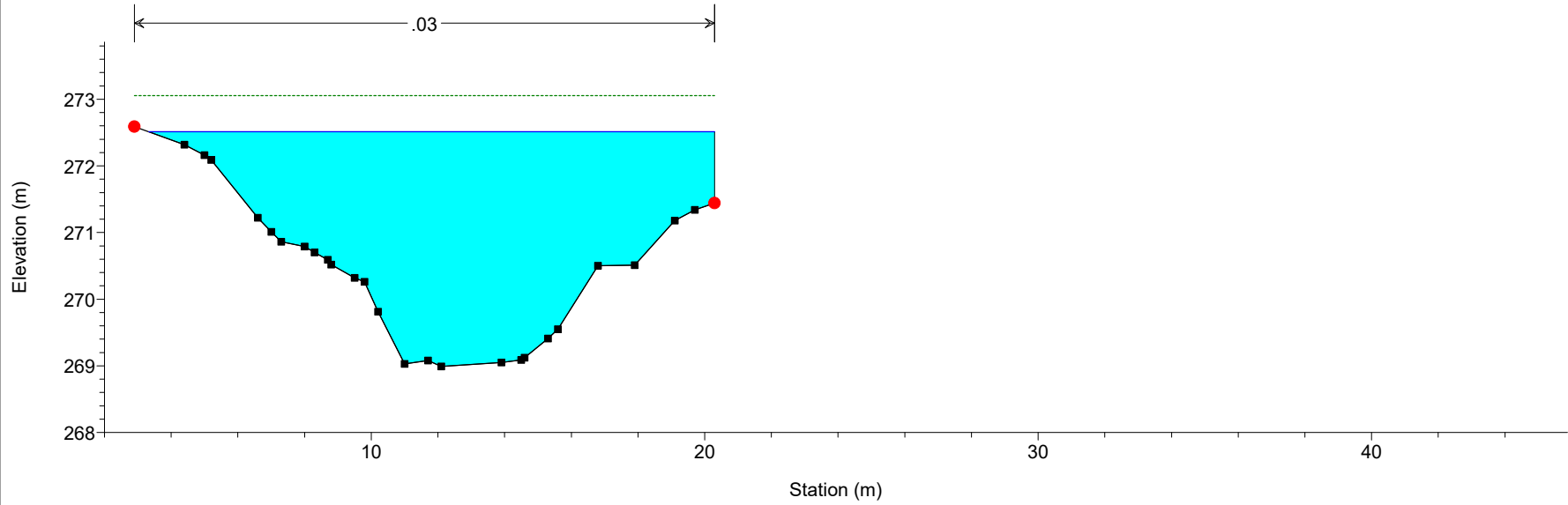


T_esse Plan: Q200rev1

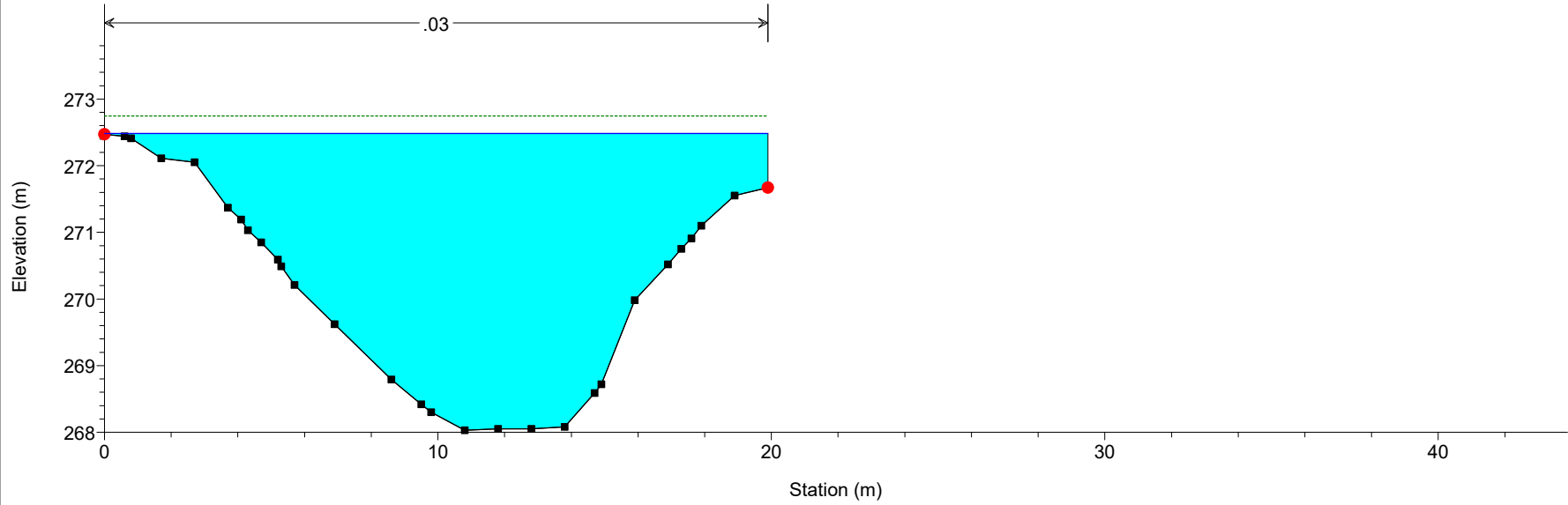


1 cm Horiz. = 2 m 1 cm Vert. = 1 m

T_esse Plan: Q200rev1

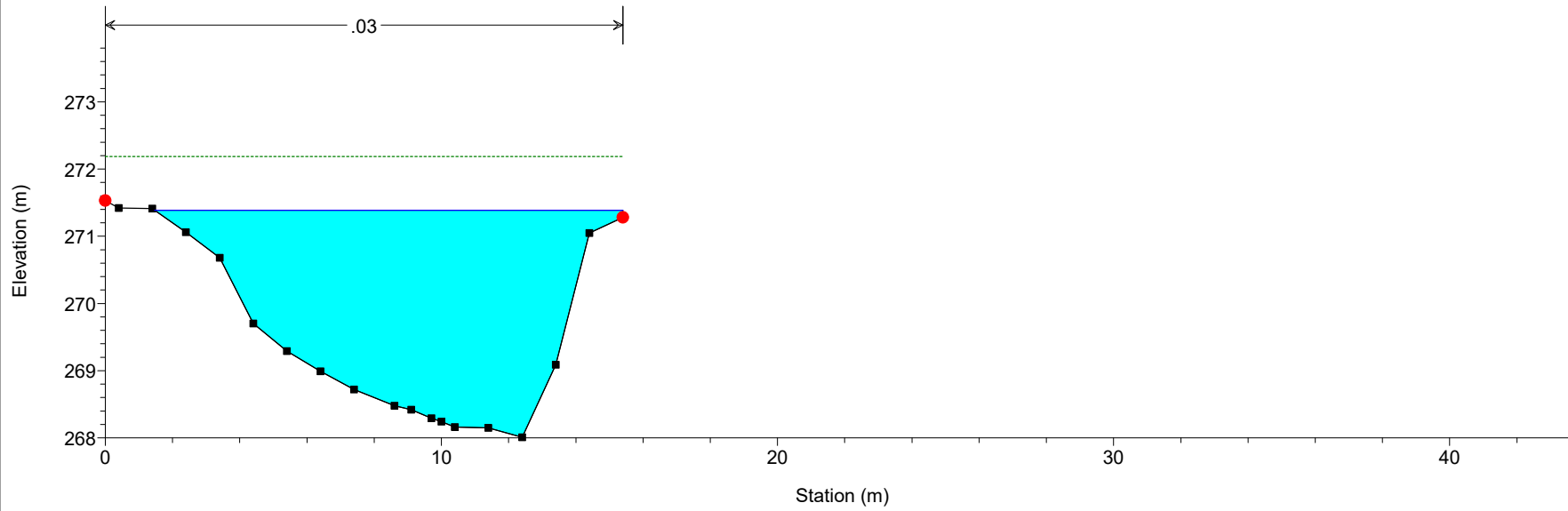


T_esse Plan: Q200rev1

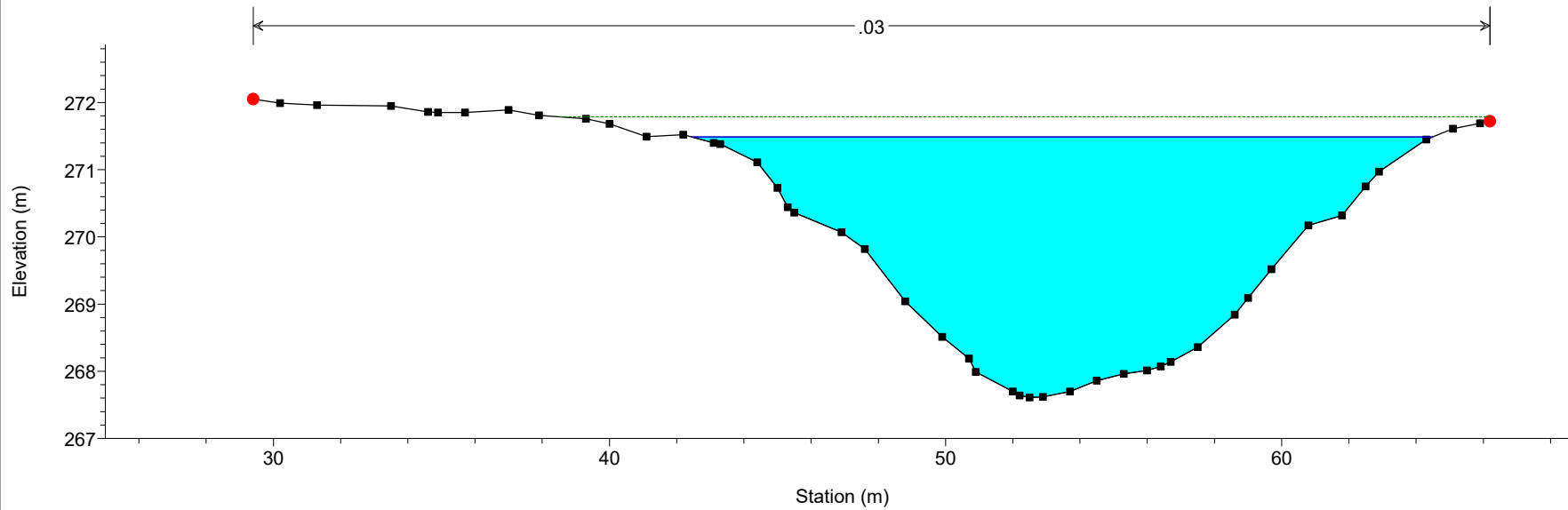


1 cm Horiz. = 2 m 1 cm Vert. = 1 m

T_esse Plan: Q200rev1

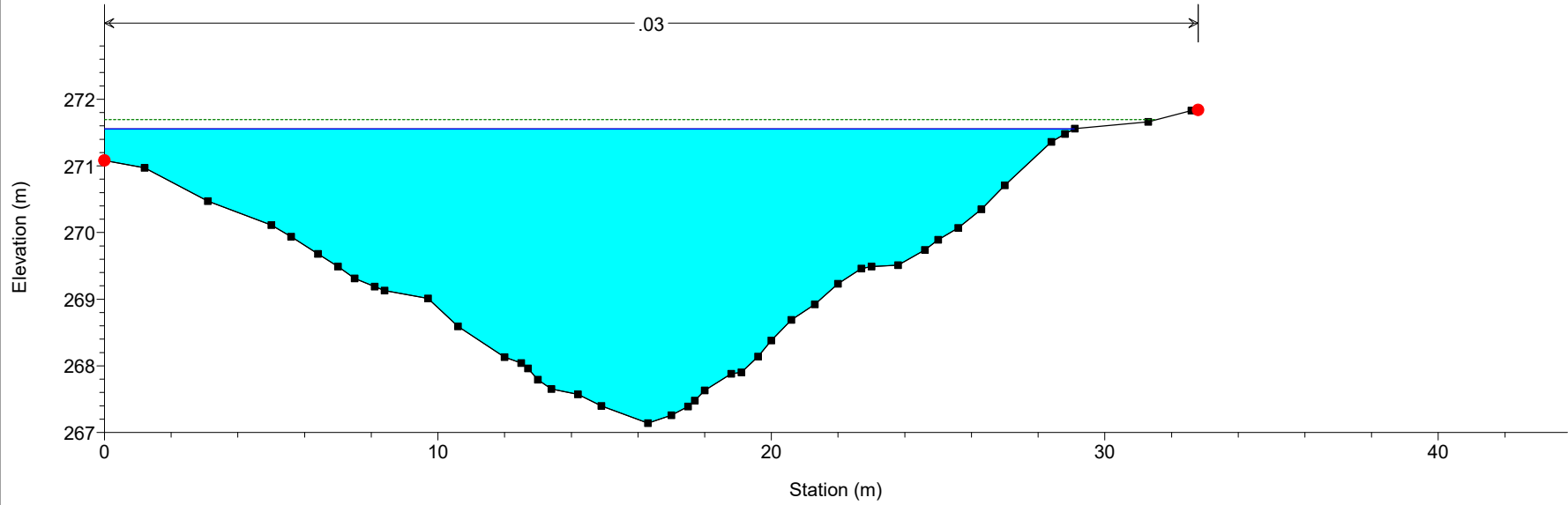


T_esse Plan: Q200rev1

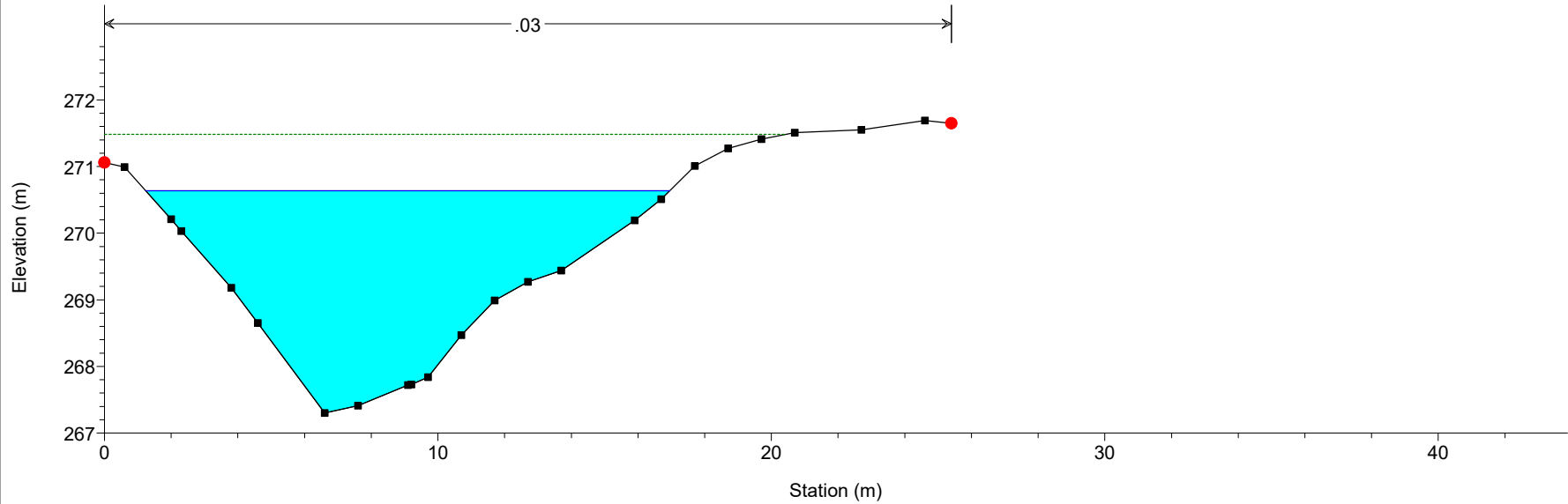


1 cm Horiz. = 2 m 1 cm Vert. = 1 m

T_esse Plan: Q200rev1

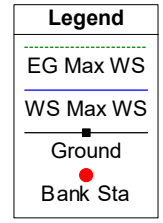
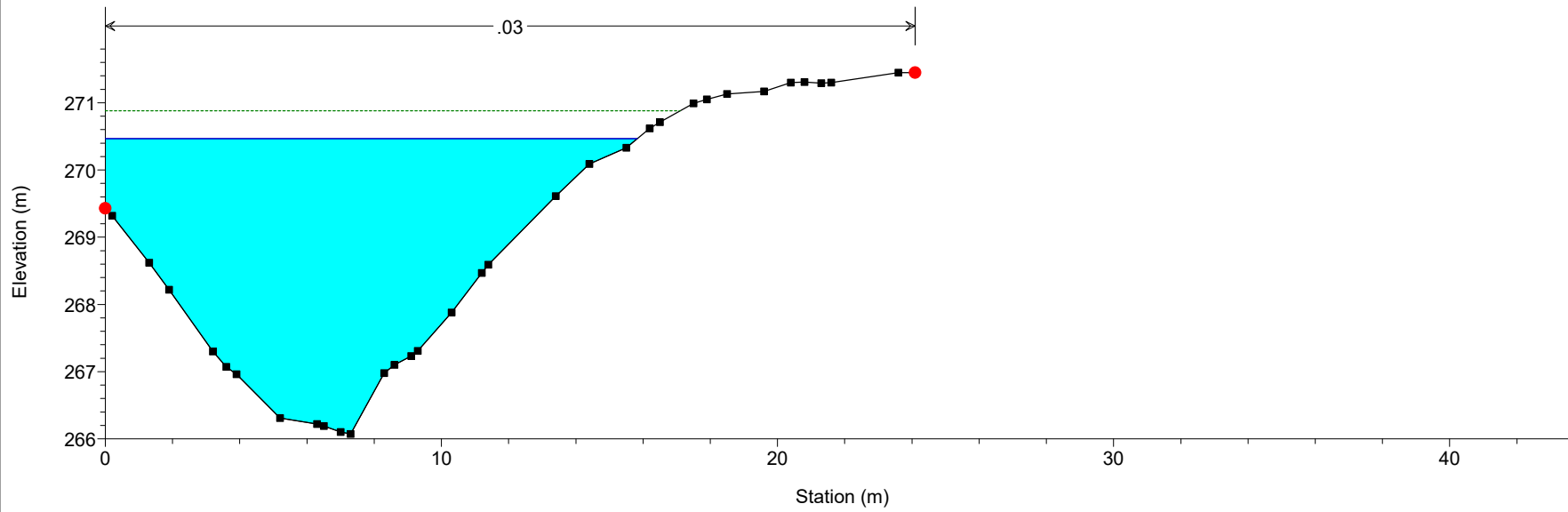


T_esse Plan: Q200rev1

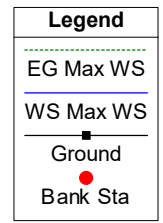
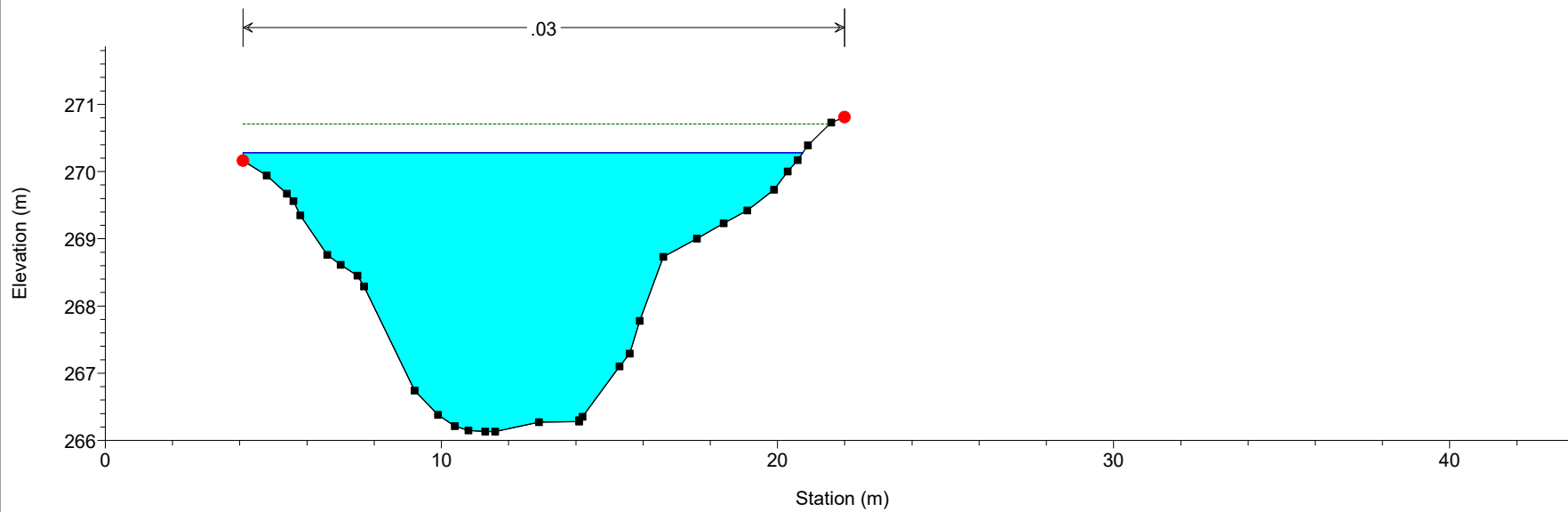


1 cm Horiz. = 2 m 1 cm Vert. = 1 m

T_esse Plan: Q200rev1



T_esse Plan: Q200rev1



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

HEC-RAS Plan: Q200rev1 River: Tesse Reach: T esse Profile: Max WS

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
T esse	6984	Max WS	164.80	272.60	276.56		277.57	0.007105	4.45	37.00	15.26	0.91
T esse	6900		Lat Struct									
T esse	6800		Lat Struct									
T esse	6789	Max WS	130.88	273.31	275.99	276.23	277.36	0.012048	5.20	25.38	13.60	1.20
T esse	6549	Max WS	109.24	272.57	275.44		275.76	0.002840	2.52	43.27	23.20	0.59
T esse	6504	Max WS	107.63	272.26	275.51		275.74	0.001635	2.15	49.99	22.40	0.46
T esse	6342	Max WS	100.17	271.95	275.20	275.30	276.20	0.010634	4.42	22.64	13.30	1.08
T esse	6133	Max WS	98.32	271.43	274.64		275.45	0.006886	3.97	24.79	12.15	0.89
T esse	5875	Max WS	97.07	270.92	274.68		275.06	0.003023	2.74	35.47	16.80	0.60
T esse	5691	Max WS	91.17	270.45	274.47		274.92	0.003669	2.98	30.64	14.49	0.65
T esse	5600		Lat Struct									
T esse	5500		Lat Struct									
T esse	5469	Max WS	85.77	271.02	274.47		274.77	0.002144	2.45	35.04	14.76	0.51
T esse	5217	Max WS	77.80	271.03	274.11		274.58	0.004739	3.02	25.76	15.46	0.75
T esse	4952	Max WS	90.15	270.22	273.39		273.99	0.005427	3.43	26.26	13.95	0.80
T esse	4709	Max WS	95.57	269.86	273.51		273.68	0.000885	1.85	51.82	18.10	0.35
T esse	4700		Lat Struct									
T esse	4600		Lat Struct									
T esse	4423	Max WS	100.69	270.02	273.17		273.52	0.002408	2.60	38.73	16.20	0.54
T esse	4055	Max WS	115.42	268.43	272.74		273.13	0.002760	2.77	41.59	16.42	0.56
T esse	3985	Max WS	114.47	268.99	272.51		273.05	0.004405	3.26	35.15	16.98	0.72
T esse	3638	Max WS	111.83	268.03	272.48		272.74	0.001677	2.27	49.25	19.90	0.46
T esse	3600		Lat Struct									
T esse	3500		Lat Struct									
T esse	3193	Max WS	111.92	268.01	271.39		272.18	0.006848	3.95	28.30	13.94	0.89
T esse	2941	Max WS	112.90	267.61	271.49		271.79	0.002163	2.43	46.52	22.04	0.53
T esse	2743	Max WS	111.53	267.14	271.56		271.69	0.000851	1.64	67.94	29.09	0.34
T esse	2427	Max WS	111.60	267.30	270.64	270.61	271.48	0.008102	4.08	27.39	15.71	0.99
T esse	2115	Max WS	111.60	266.07	270.46		270.88	0.002790	2.86	39.09	15.82	0.58
T esse	1925	Max WS	111.92	266.13	270.28	269.41	270.71	0.003001	2.89	38.73	16.65	0.61

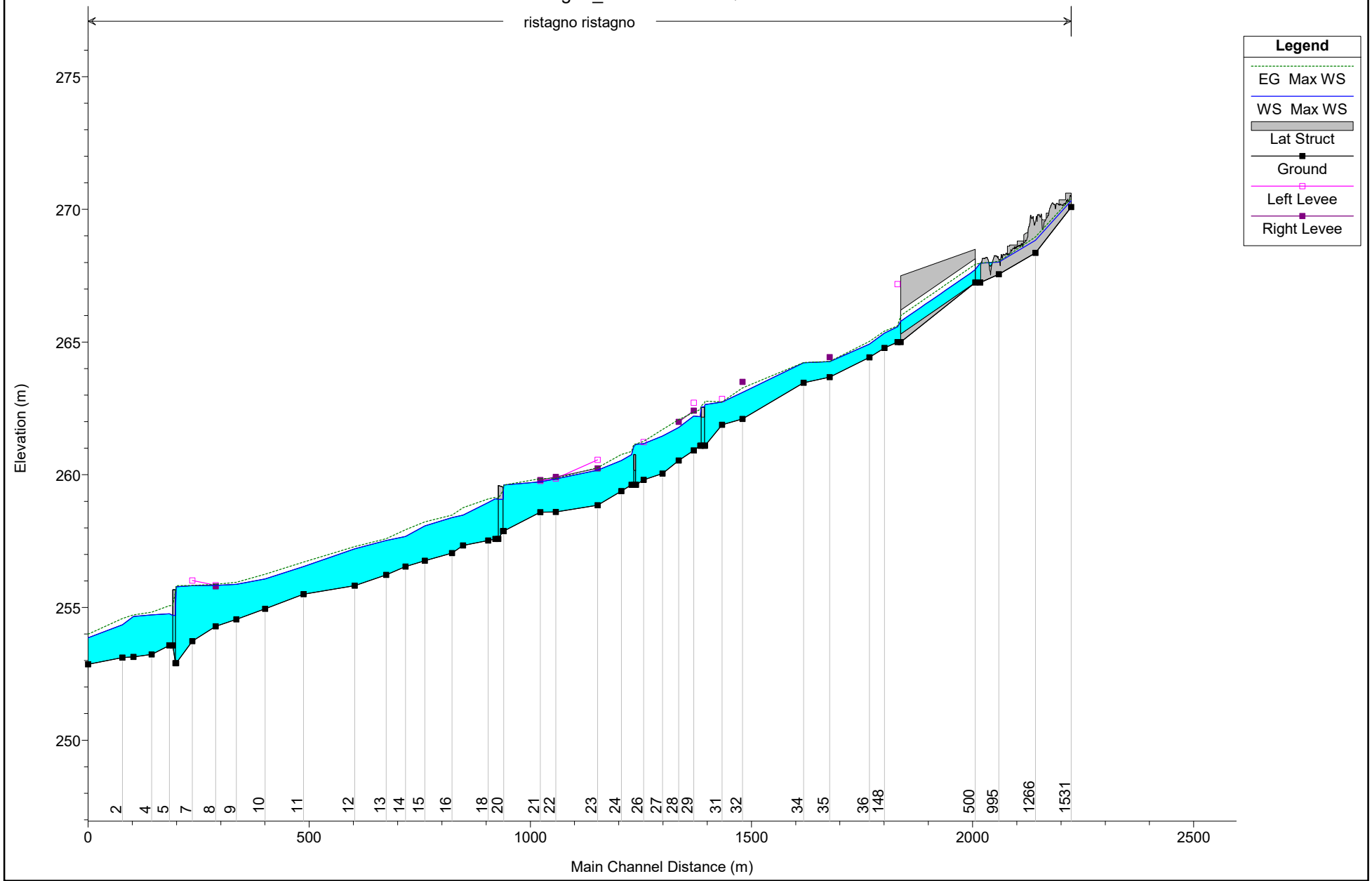
HEC-RAS Plan: Q200rev1 River: Tesse Reach: T esse Profile: Max WS

Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Vel Head (m)	Frctn Loss (m)	C & E Loss (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Top Width (m)
T esse	6984	Max WS	277.57	276.56	1.01	0.57			164.80		15.26
T esse	6900		Lat Struct								
T esse	6800		Lat Struct								
T esse	6789	Max WS	277.36	275.99	1.38	0.55		0.02	130.85		13.60
T esse	6549	Max WS	275.76	275.44	0.32	0.03			109.24		23.20
T esse	6504	Max WS	275.74	275.51	0.24	0.31			107.63		22.40
T esse	6342	Max WS	276.20	275.20	1.00	0.56			100.17		13.30
T esse	6133	Max WS	275.45	274.64	0.80	0.39			98.32		12.15
T esse	5875	Max WS	275.06	274.68	0.38	0.19			97.07		16.80
T esse	5691	Max WS	274.92	274.47	0.45	0.20			91.17		14.49
T esse	5600		Lat Struct								
T esse	5500		Lat Struct								
T esse	5469	Max WS	274.77	274.47	0.31	0.27			85.77		14.76
T esse	5217	Max WS	274.58	274.11	0.47	0.41			77.80		15.46
T esse	4952	Max WS	273.99	273.39	0.60	0.23			90.15		13.95
T esse	4709	Max WS	273.68	273.51	0.17	0.14		0.00	95.56		18.10
T esse	4700		Lat Struct								
T esse	4600		Lat Struct								
T esse	4423	Max WS	273.52	273.17	0.34	0.29			100.69		16.20
T esse	4055	Max WS	273.13	272.74	0.39	0.08			115.42		16.42
T esse	3985	Max WS	273.05	272.51	0.54	0.32			114.47		16.98
T esse	3638	Max WS	272.74	272.48	0.26	0.58			111.83		19.90
T esse	3600		Lat Struct								
T esse	3500		Lat Struct								
T esse	3193	Max WS	272.18	271.39	0.80	0.35			111.92		13.94
T esse	2941	Max WS	271.79	271.49	0.30	0.09			112.90		22.04
T esse	2743	Max WS	271.69	271.56	0.14	0.43			111.53		29.09
T esse	2427	Max WS	271.48	270.64	0.85	0.52			111.60		15.71
T esse	2115	Max WS	270.88	270.46	0.42	0.17			111.60		15.82
T esse	1925	Max WS	270.71	270.28	0.43				111.92		16.65

OUTPUT HEC-RAS
TR200

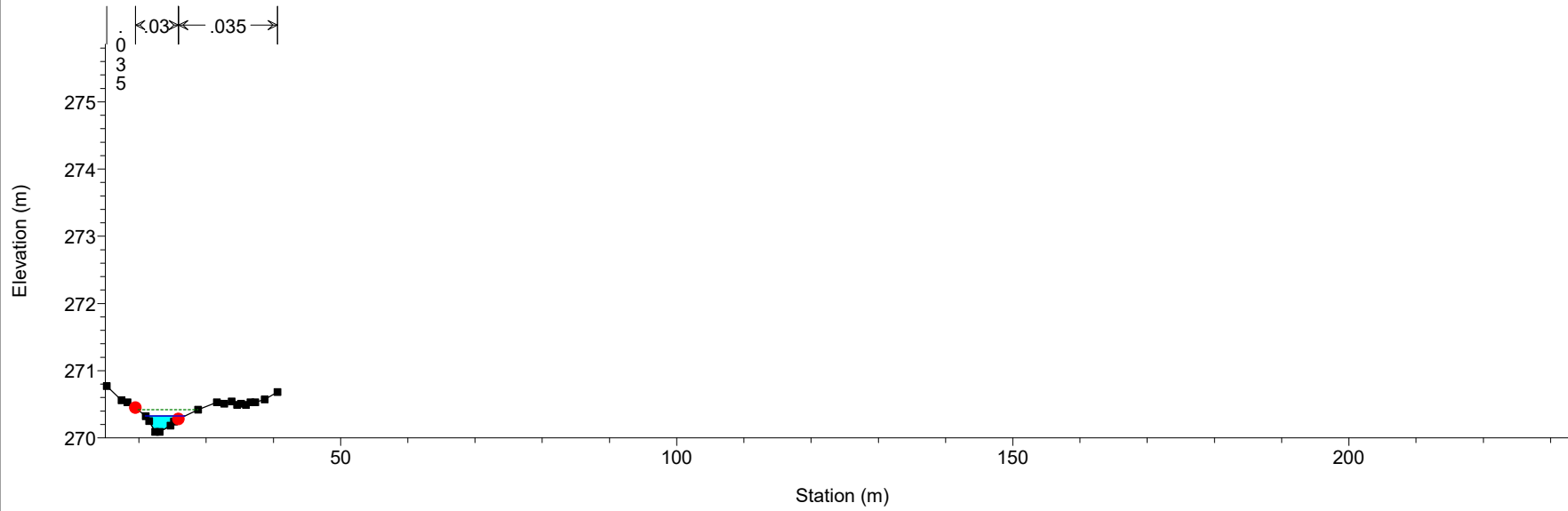
FOSSO RISTAGNO

ristagno_rev1 Plan: Q200 definitivo
ristagno ristagno

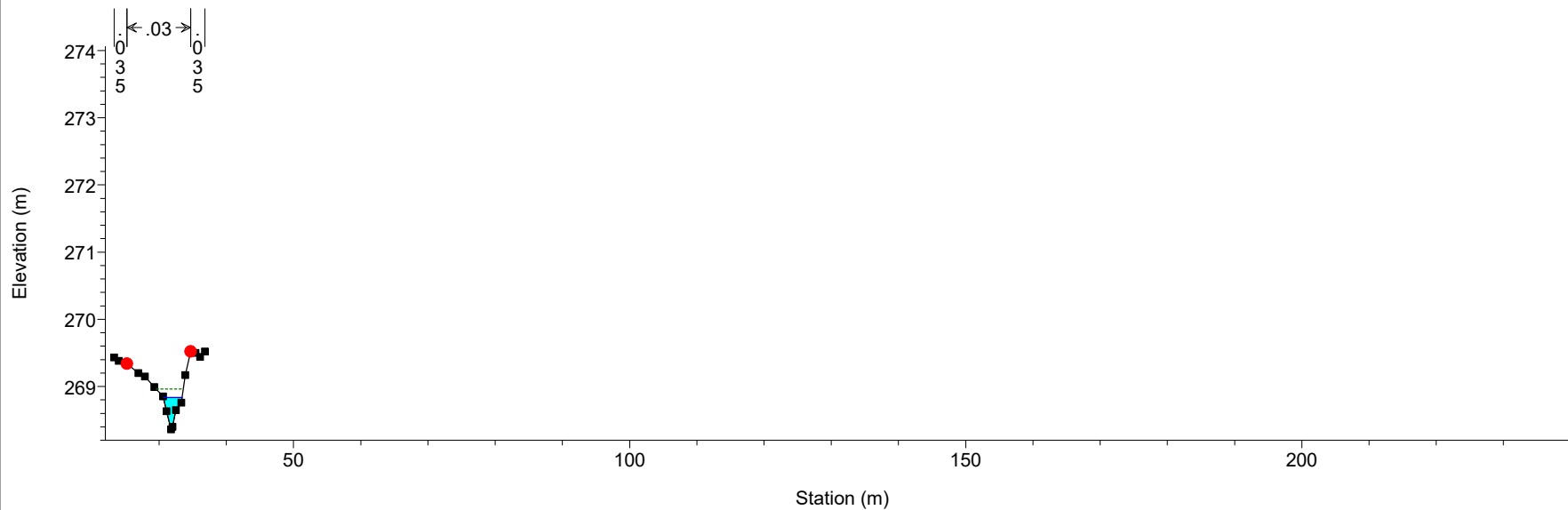


1 cm Horiz. = 120 m 1 cm Vert. = 2 m

ristagno_rev1 Plan: Q200 definitivo

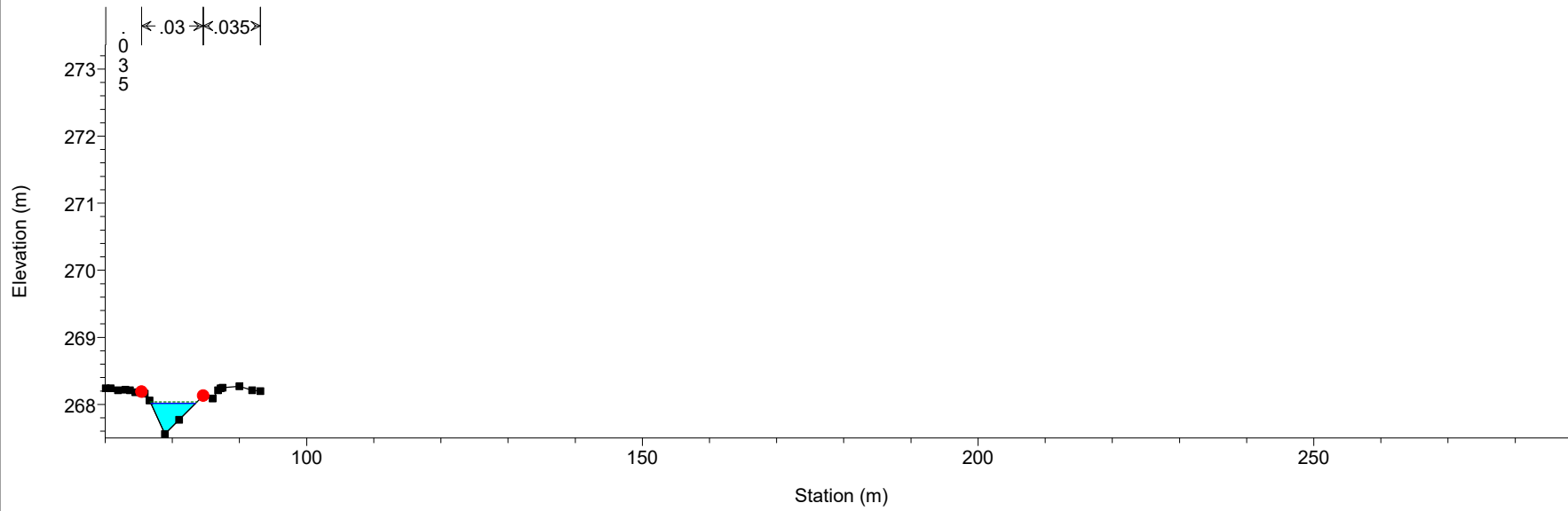


ristagno_rev1 Plan: Q200 definitivo

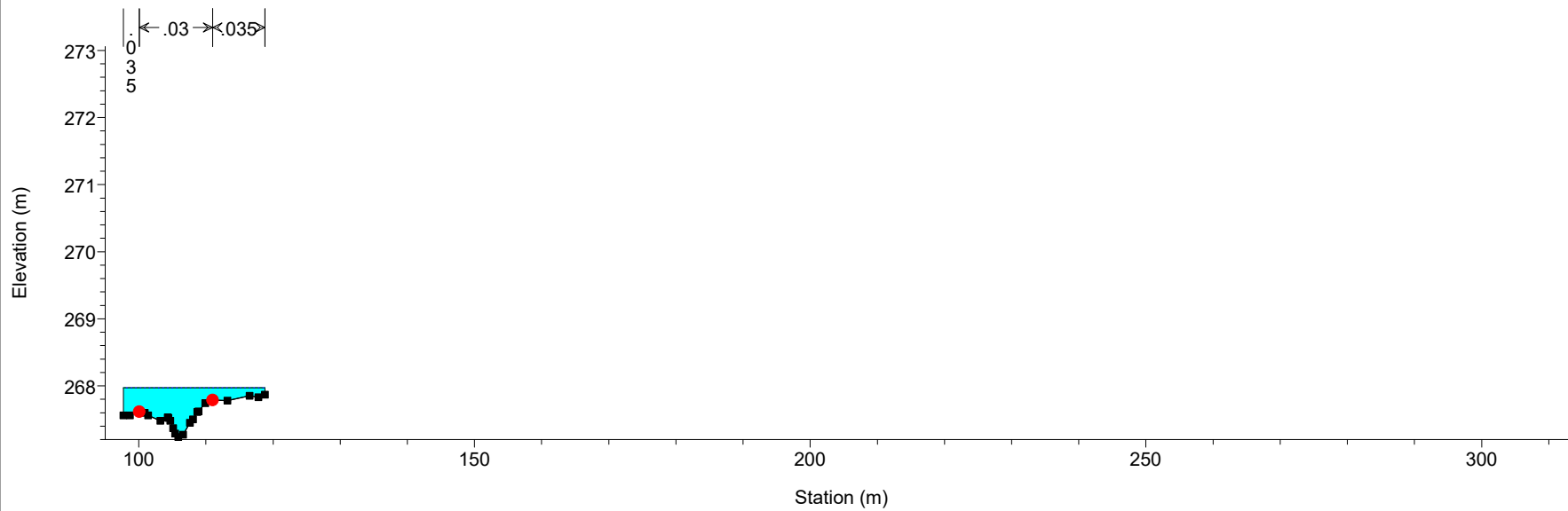


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo

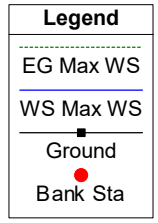
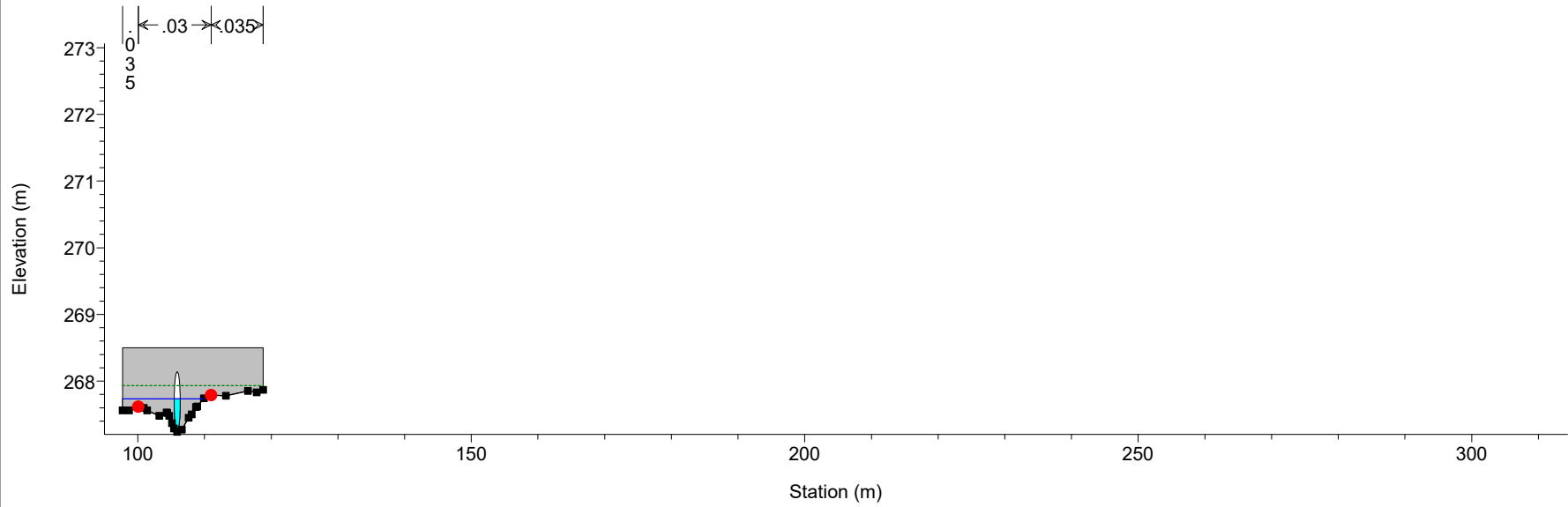


ristagno_rev1 Plan: Q200 definitivo

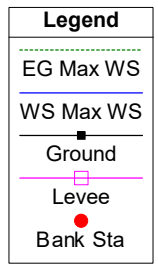
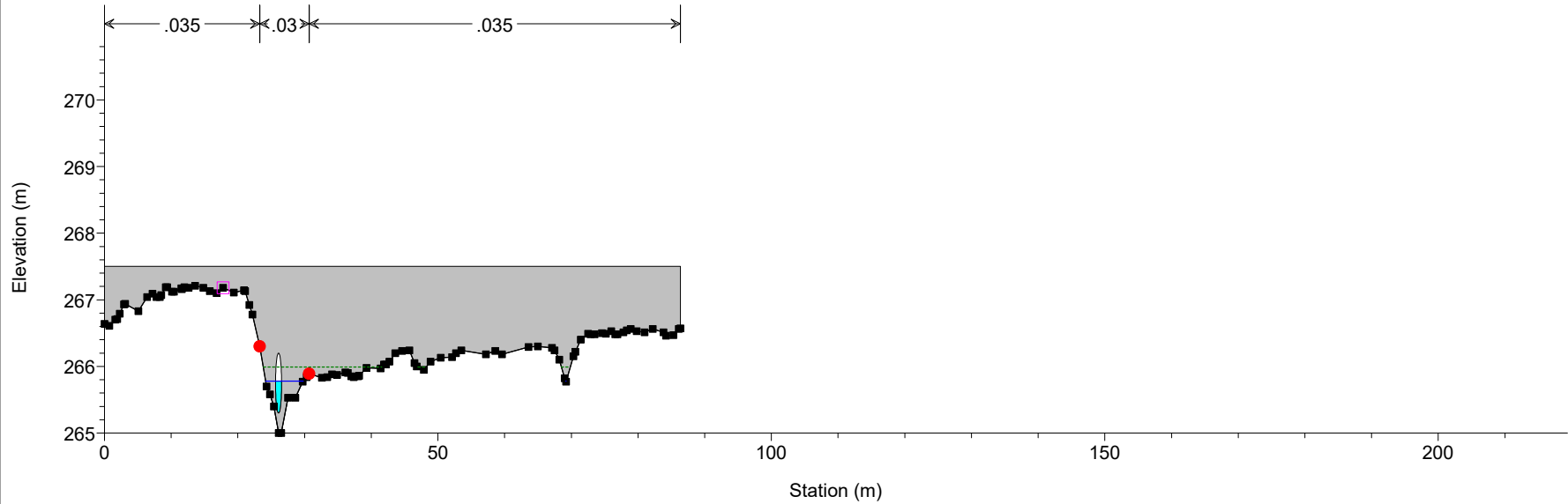


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo

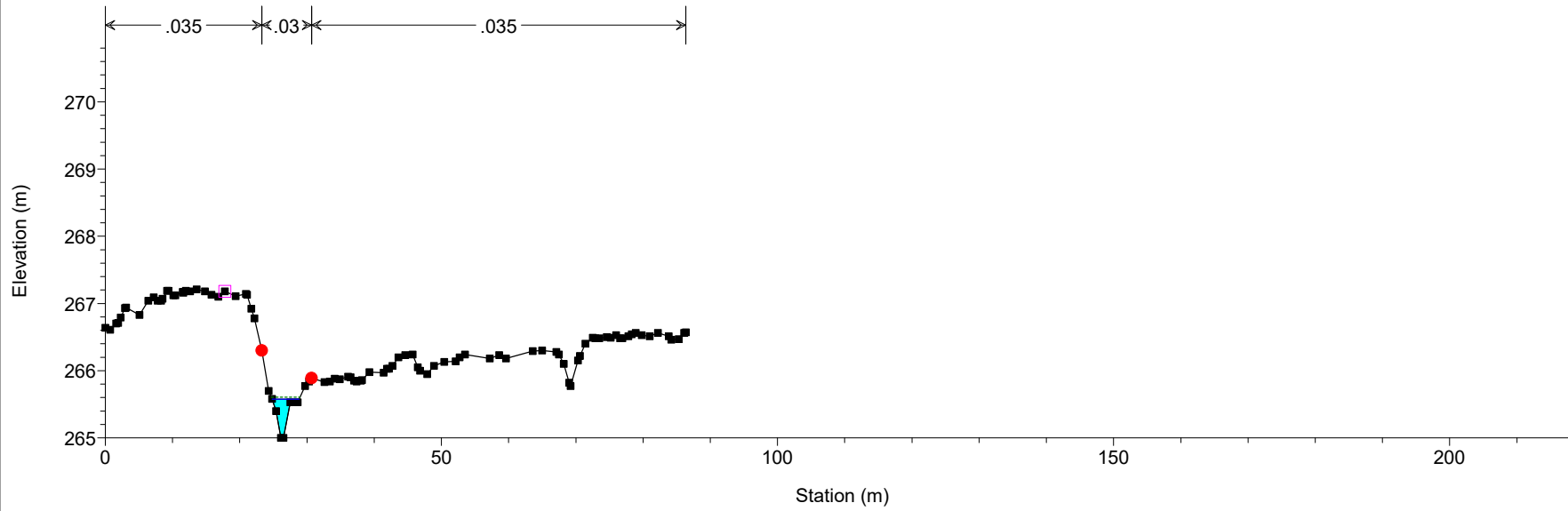


ristagno_rev1 Plan: Q200 definitivo

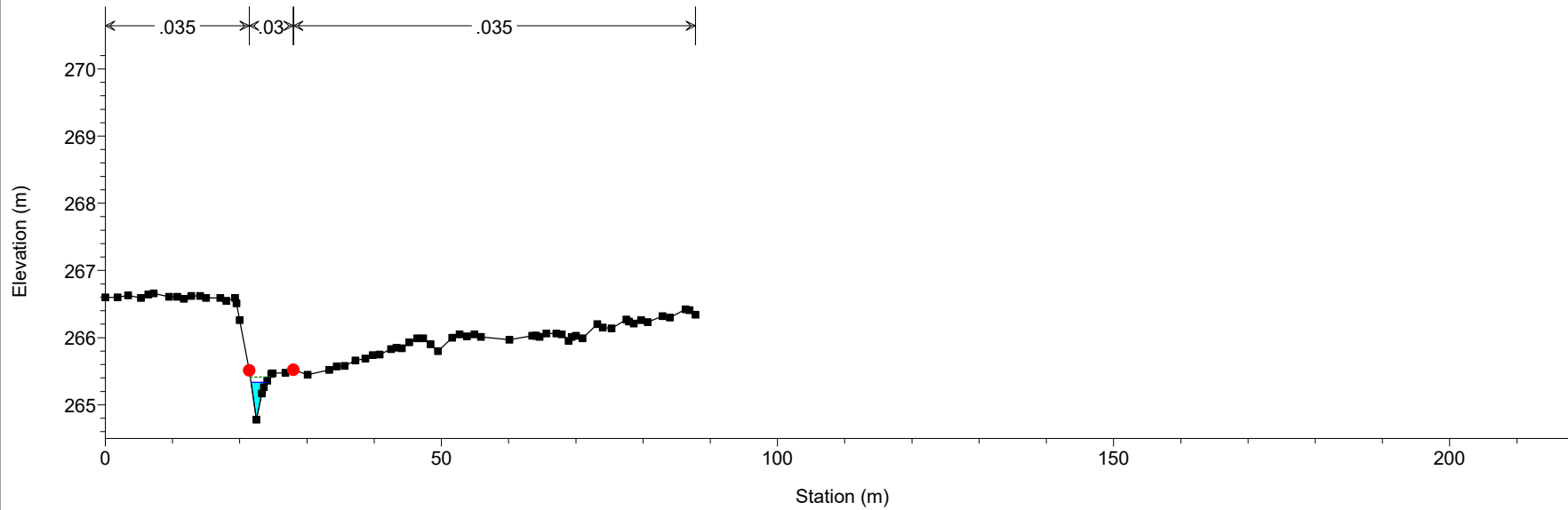


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo

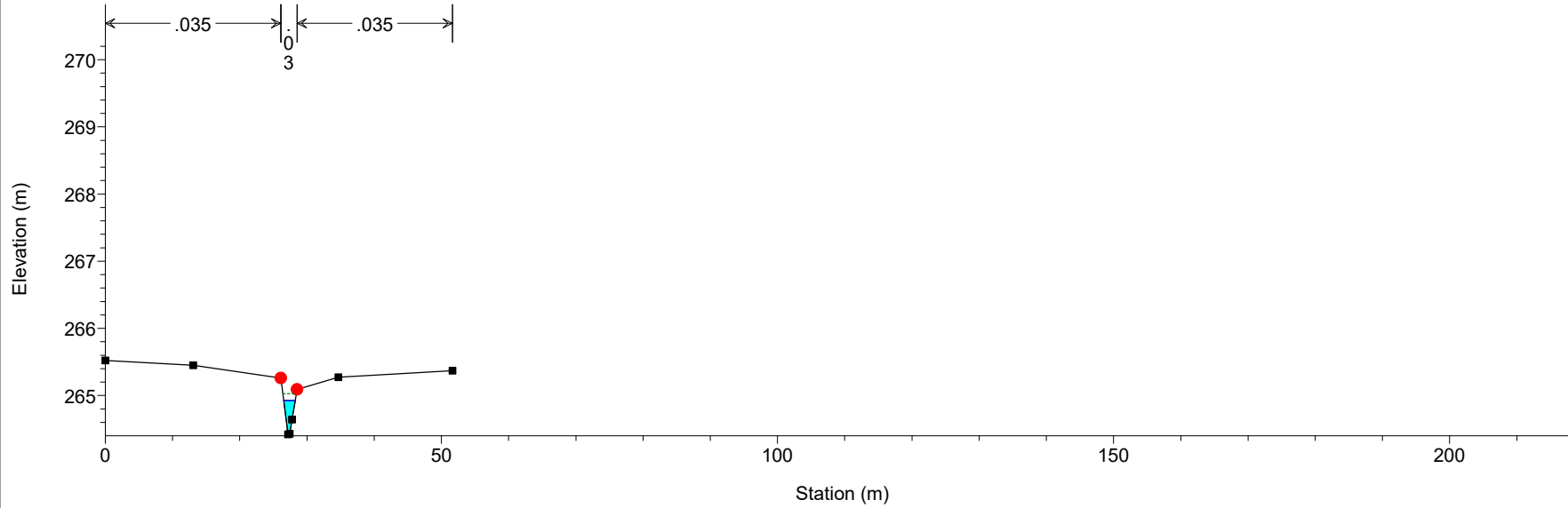


ristagno_rev1 Plan: Q200 definitivo

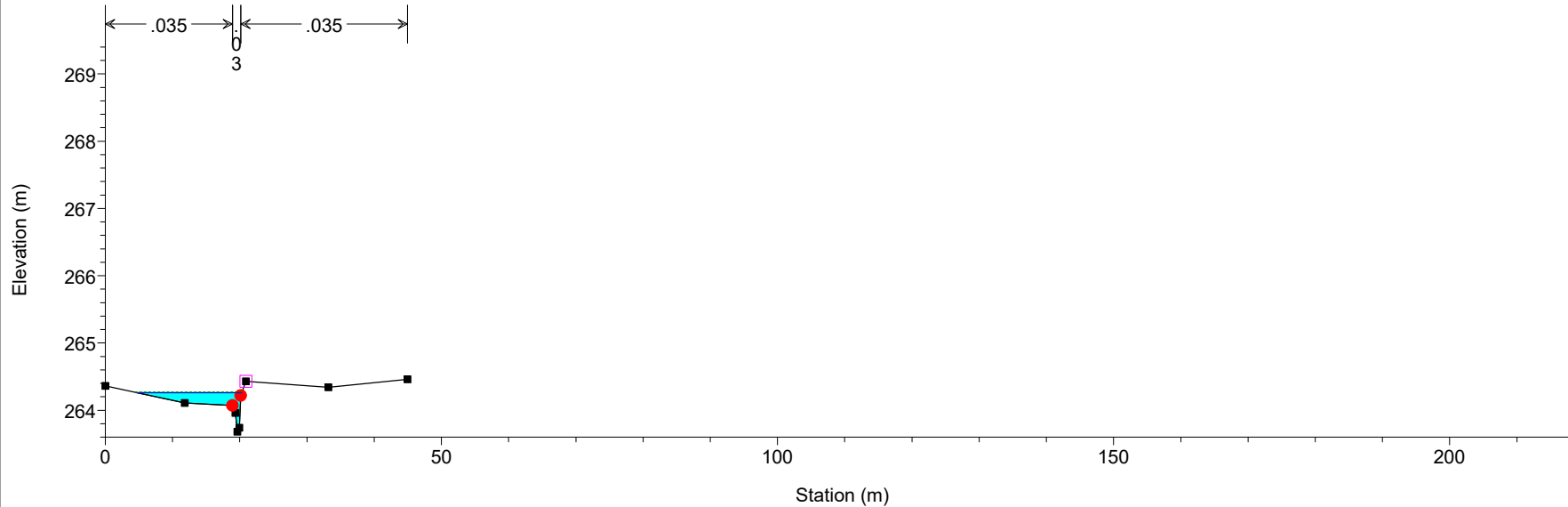


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

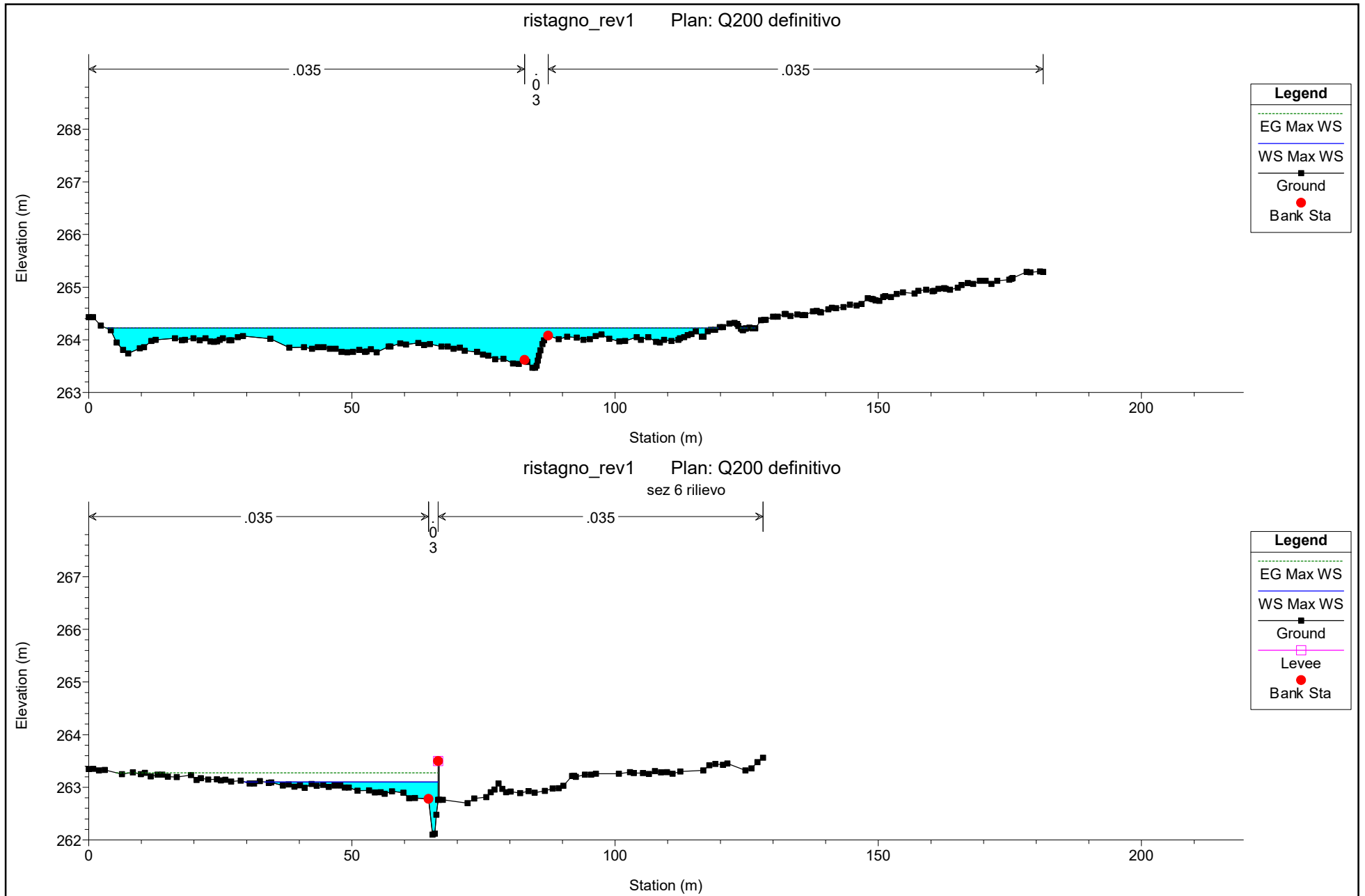
ristagno_rev1 Plan: Q200 definitivo
sez 2 rilievo



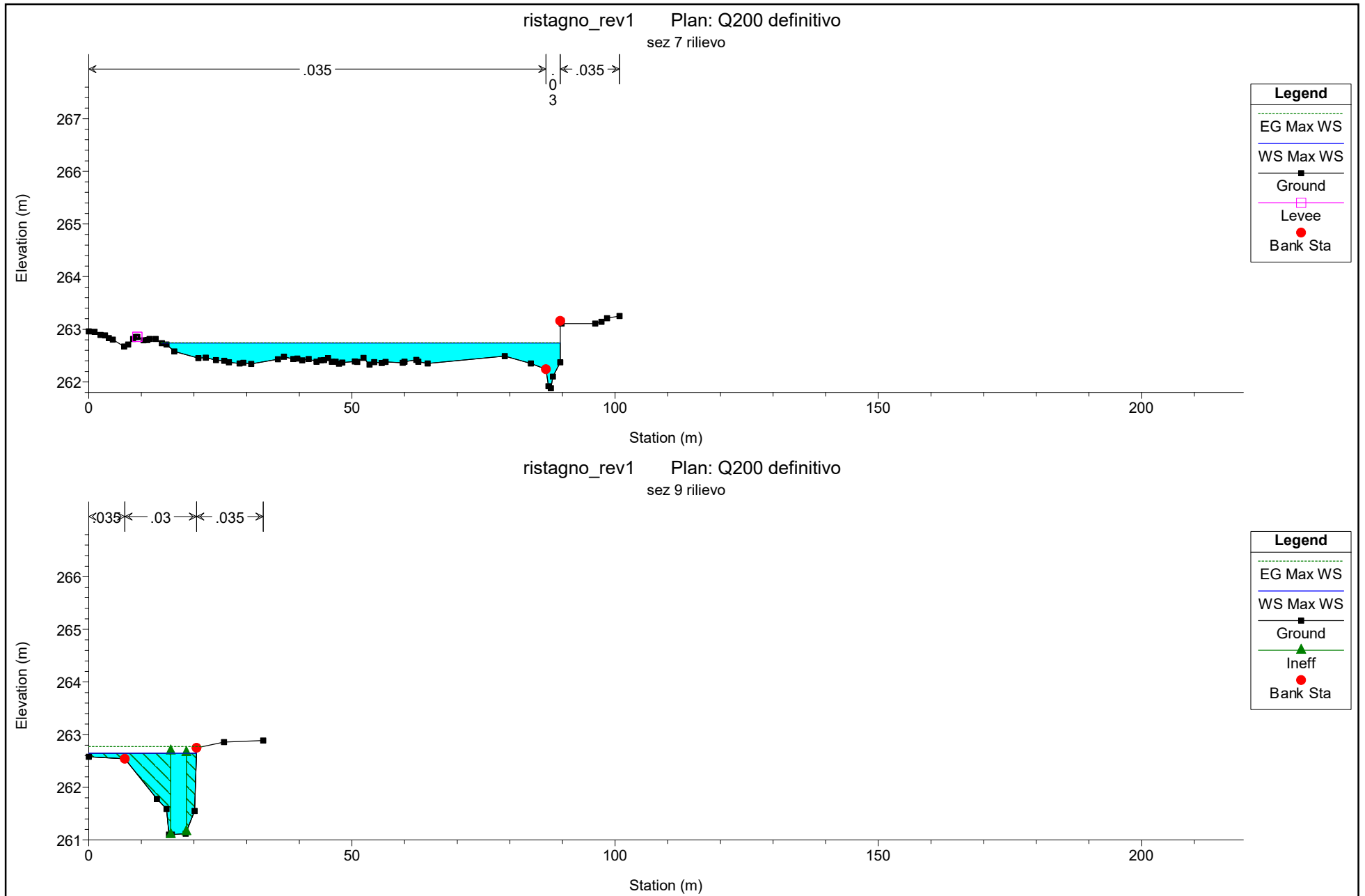
ristagno_rev1 Plan: Q200 definitivo
sez 3 rilievo



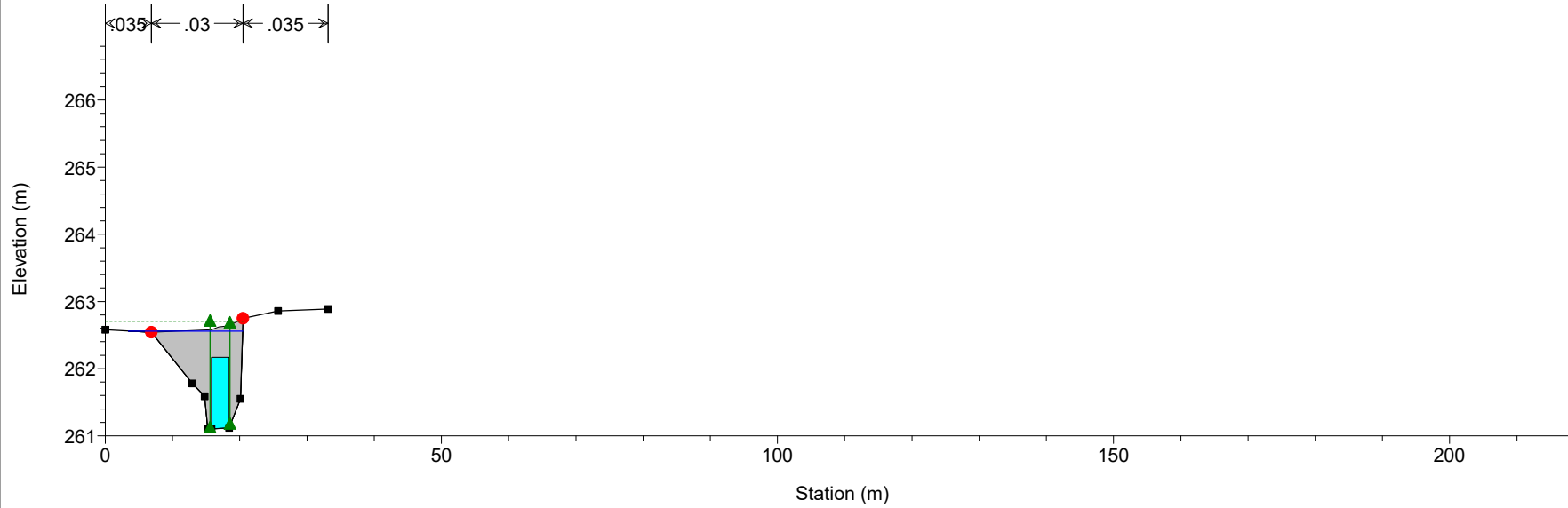
1 cm Horiz. = 10 m 1 cm Vert. = 1 m



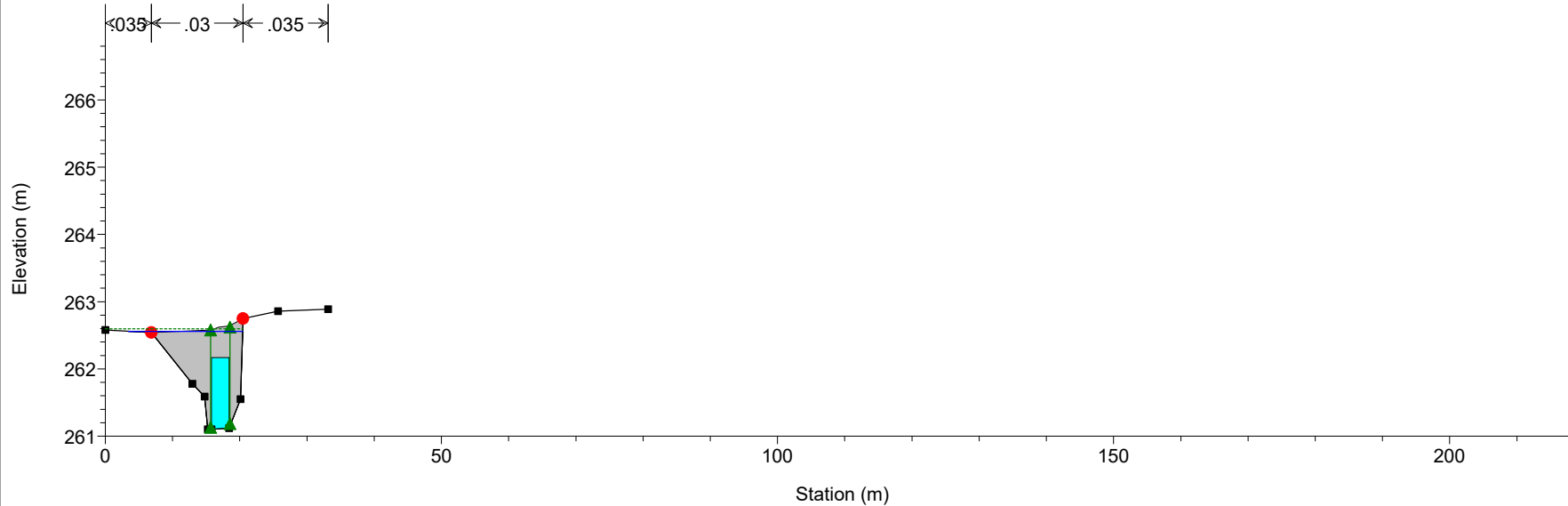
1 cm Horiz. = 10 m 1 cm Vert. = 1 m



ristagno_rev1 Plan: Q200 definitivo
ponte su via dei Boschi

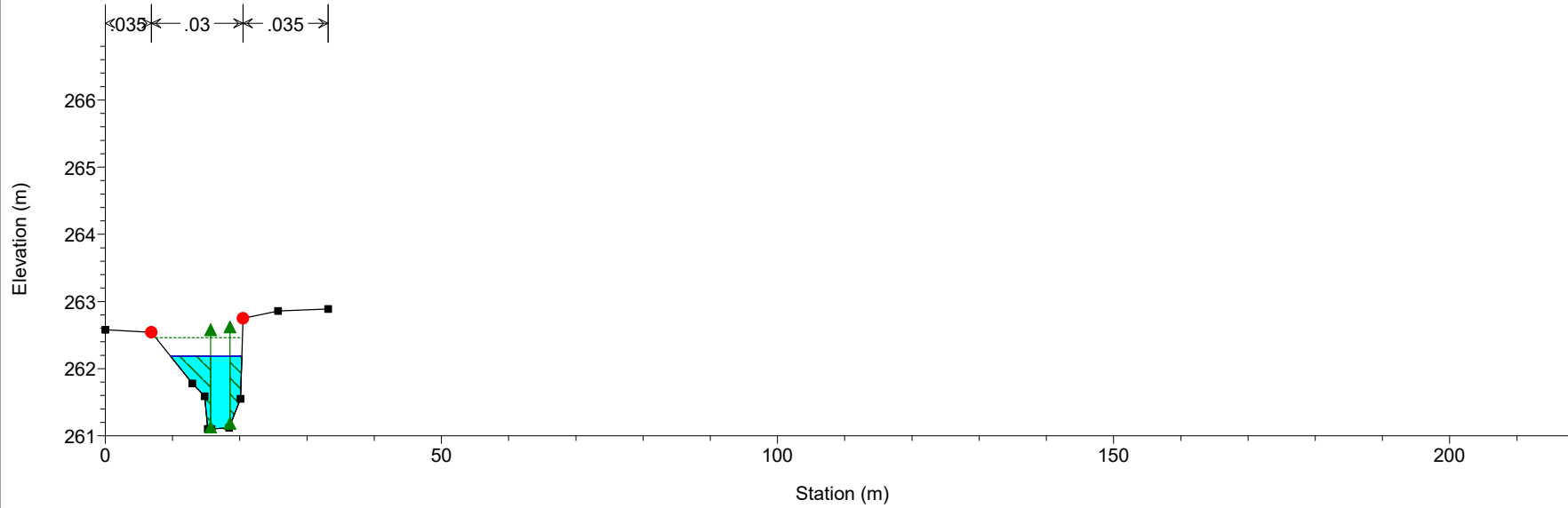


ristagno_rev1 Plan: Q200 definitivo
ponte su via dei Boschi

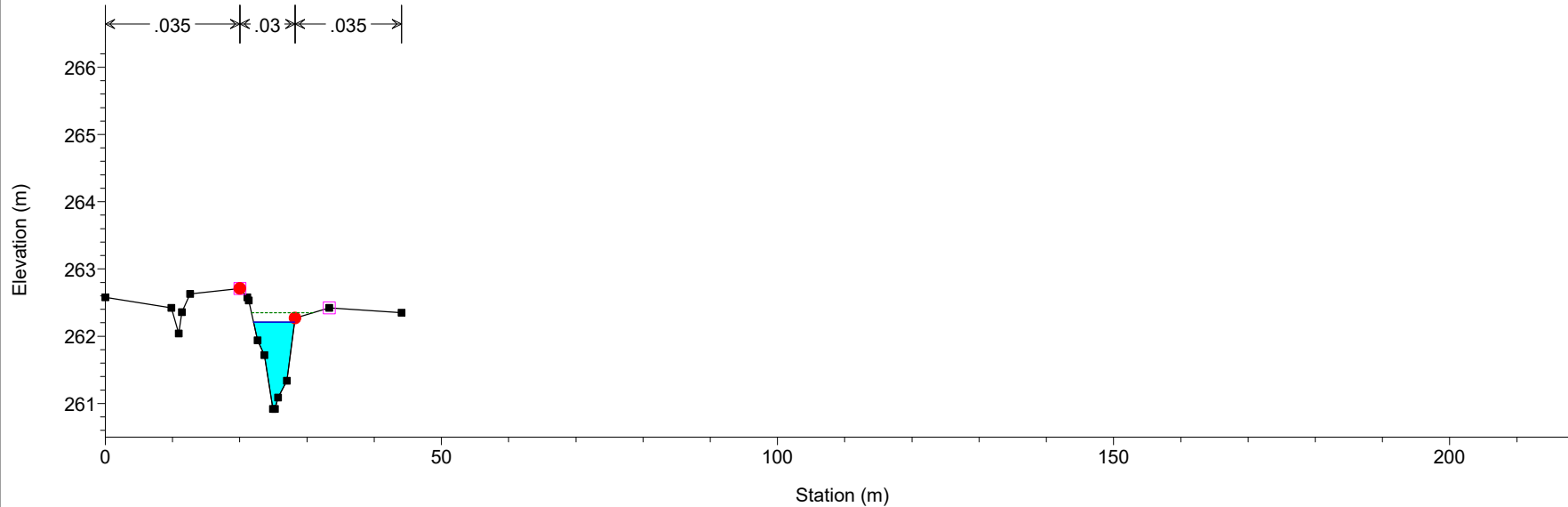


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo
sez 9 rilievo

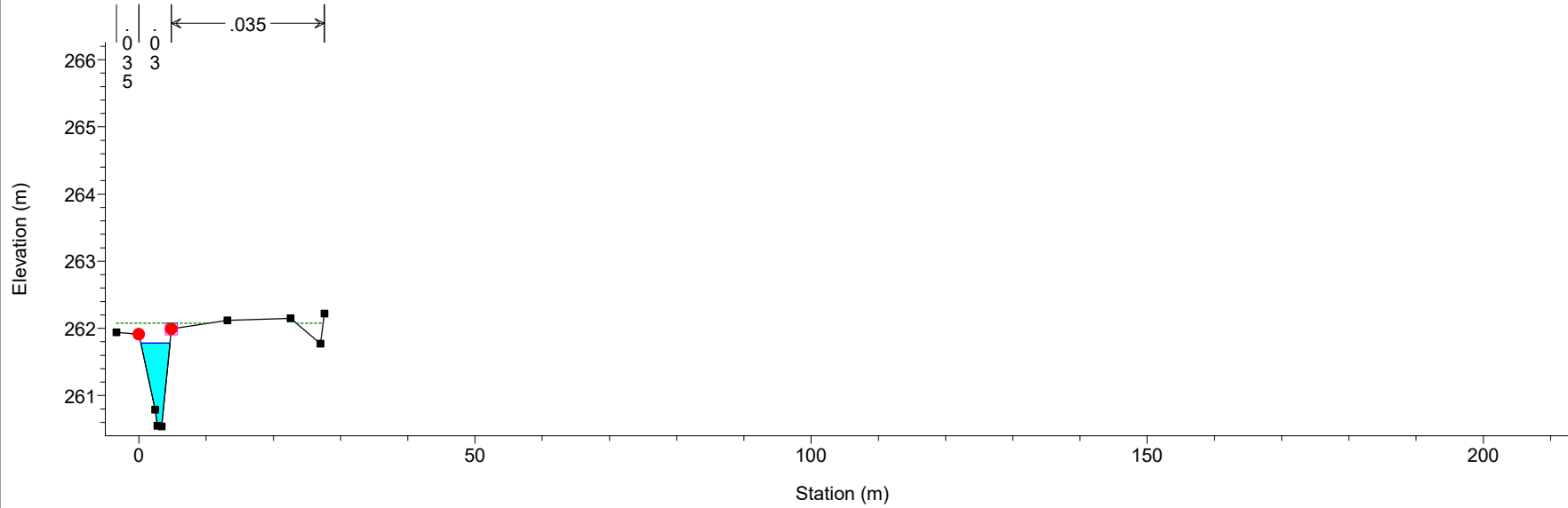


ristagno_rev1 Plan: Q200 definitivo
sez 10 rilievo

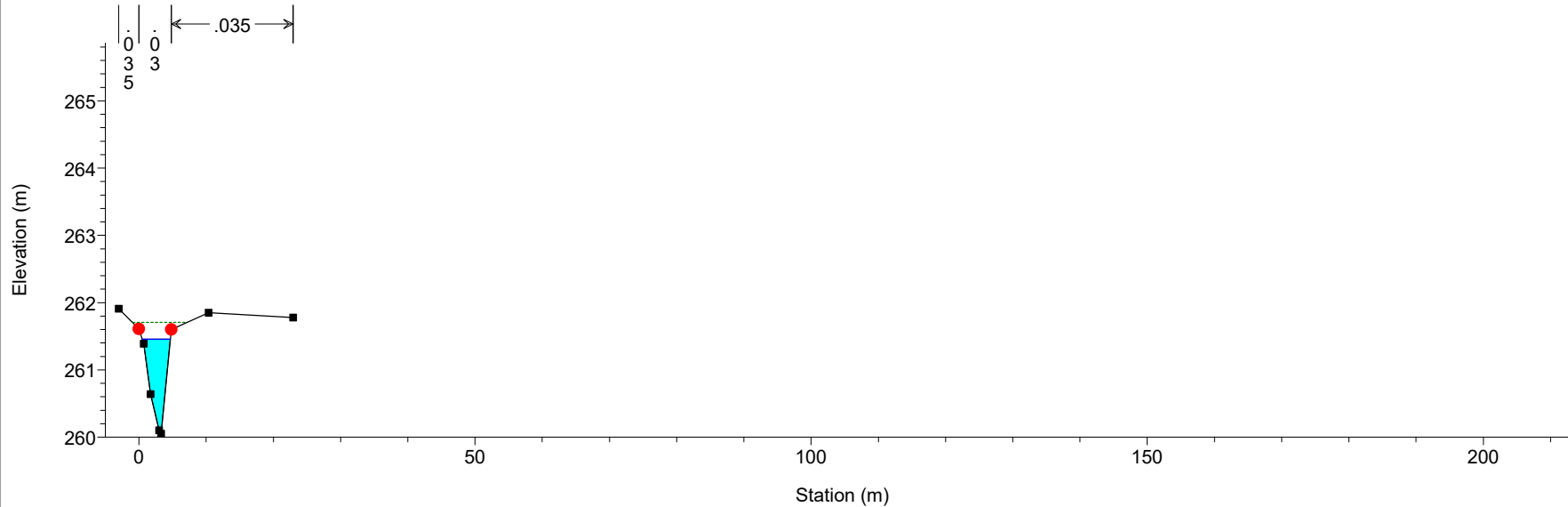


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo
sez 11 rilievo

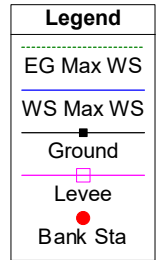
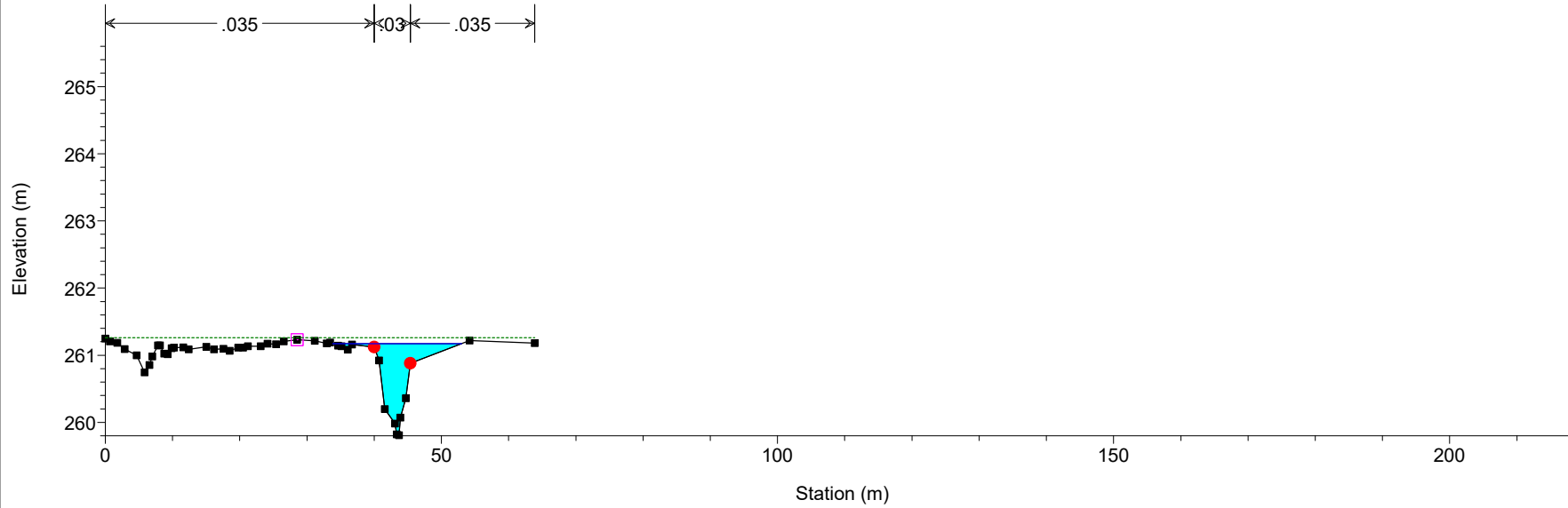


ristagno_rev1 Plan: Q200 definitivo
sez 12 rilievo

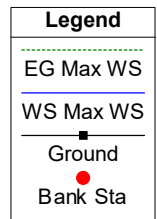
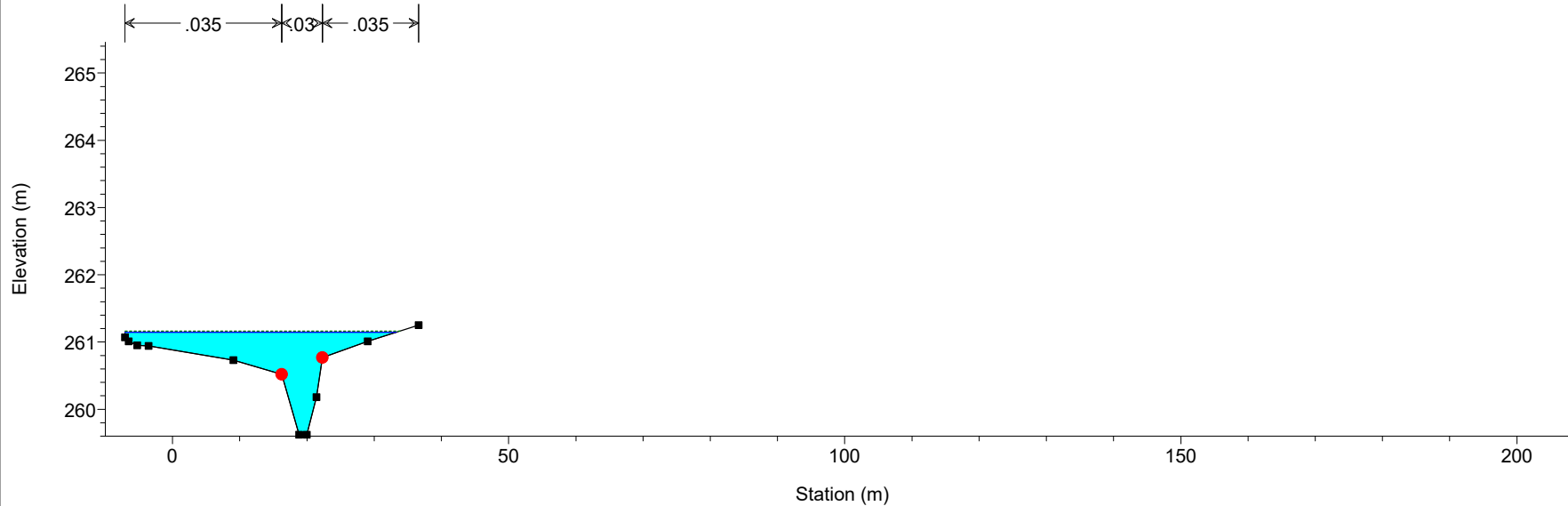


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo
sez 13 rilievo

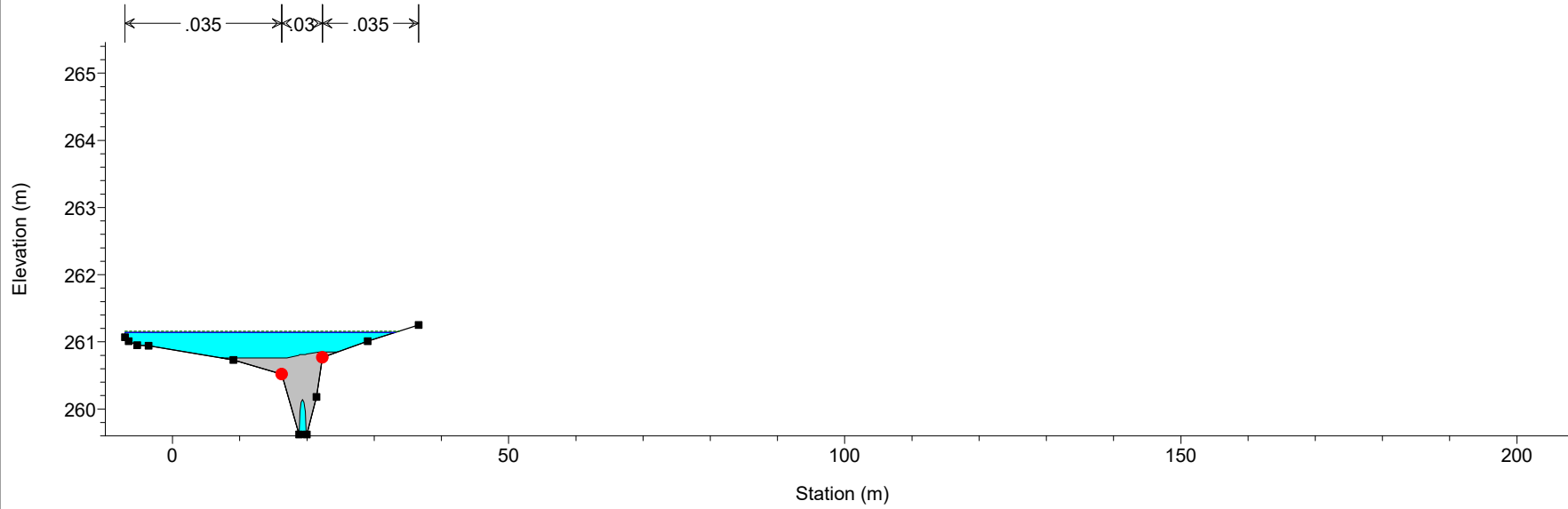


ristagno_rev1 Plan: Q200 definitivo
sez 15 rilievo

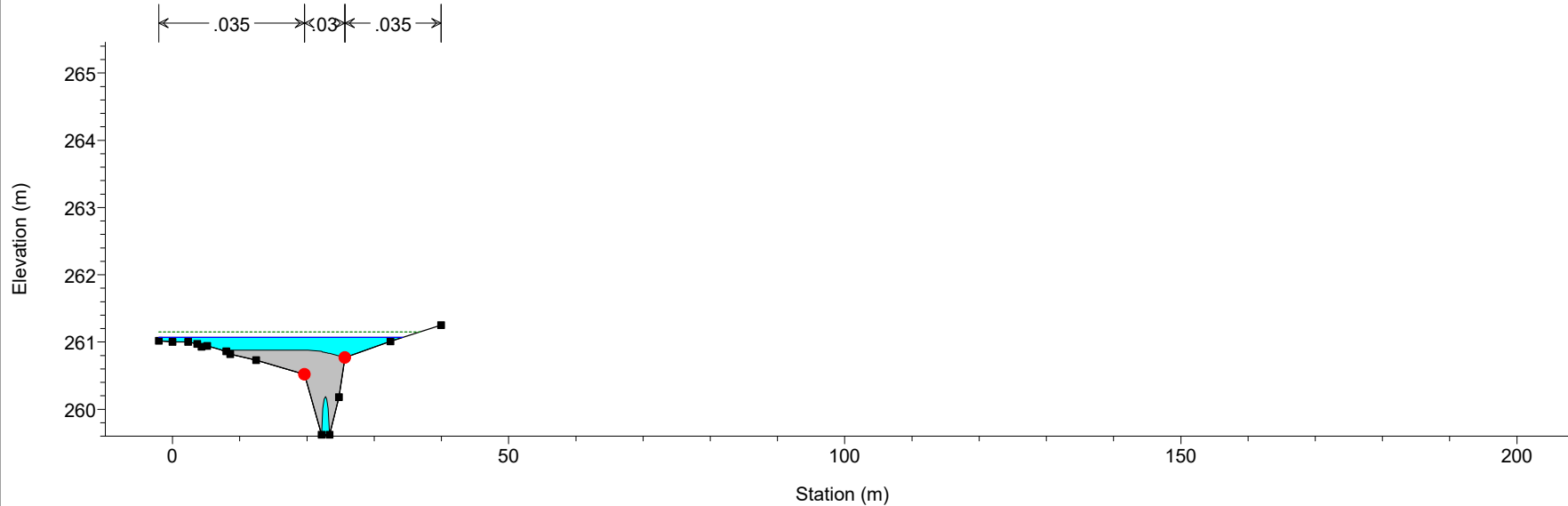


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo
tombino campestre

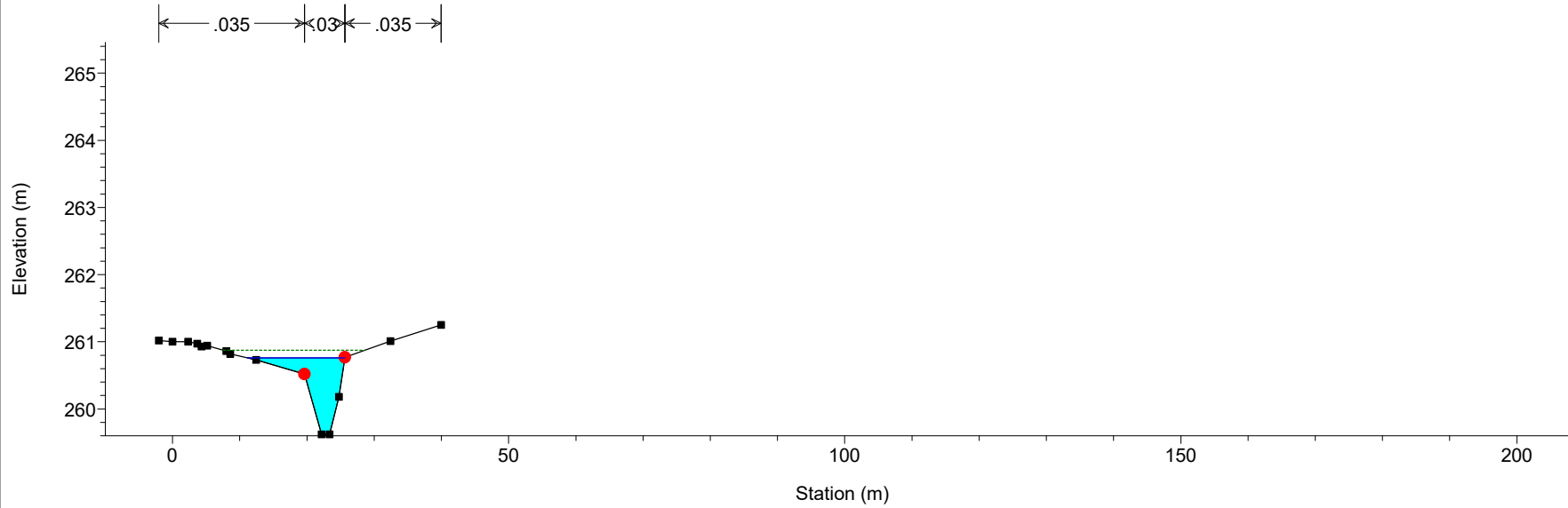


ristagno_rev1 Plan: Q200 definitivo
tombino campestre



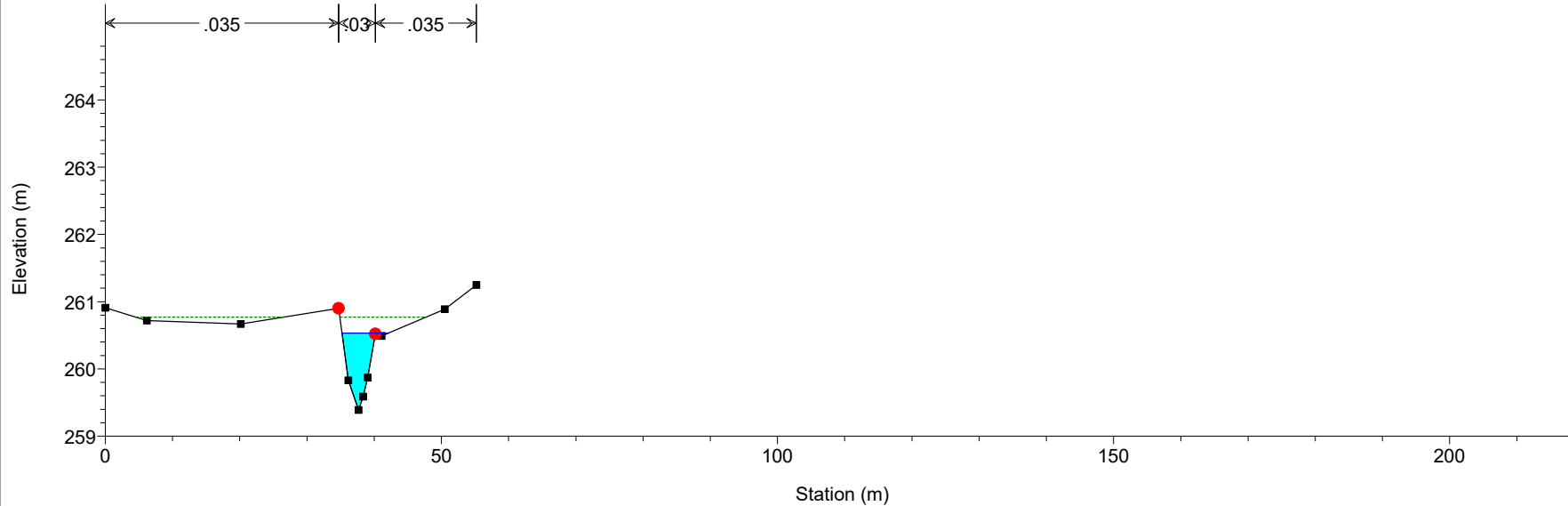
1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo
sez 15 rilievo



Legend	
---	EG Max WS
—	WS Max WS
■	Ground
●	Bank Sta

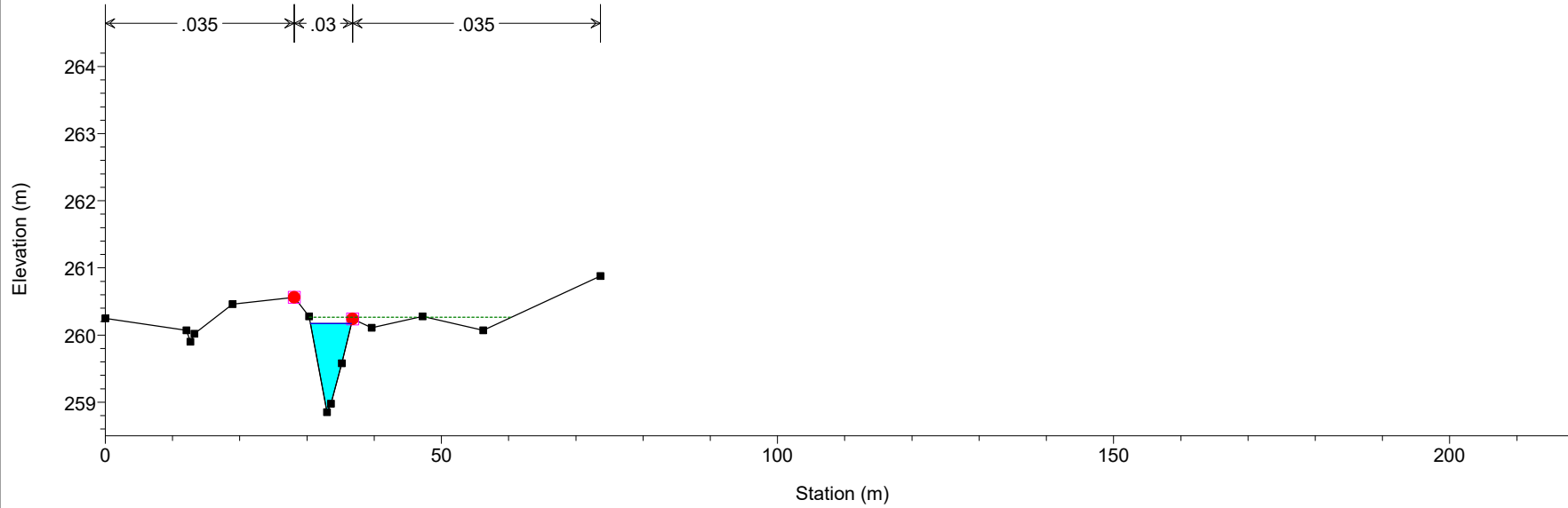
ristagno_rev1 Plan: Q200 definitivo
sez 16 rilievo



Legend	
---	EG Max WS
—	WS Max WS
■	Ground
●	Bank Sta

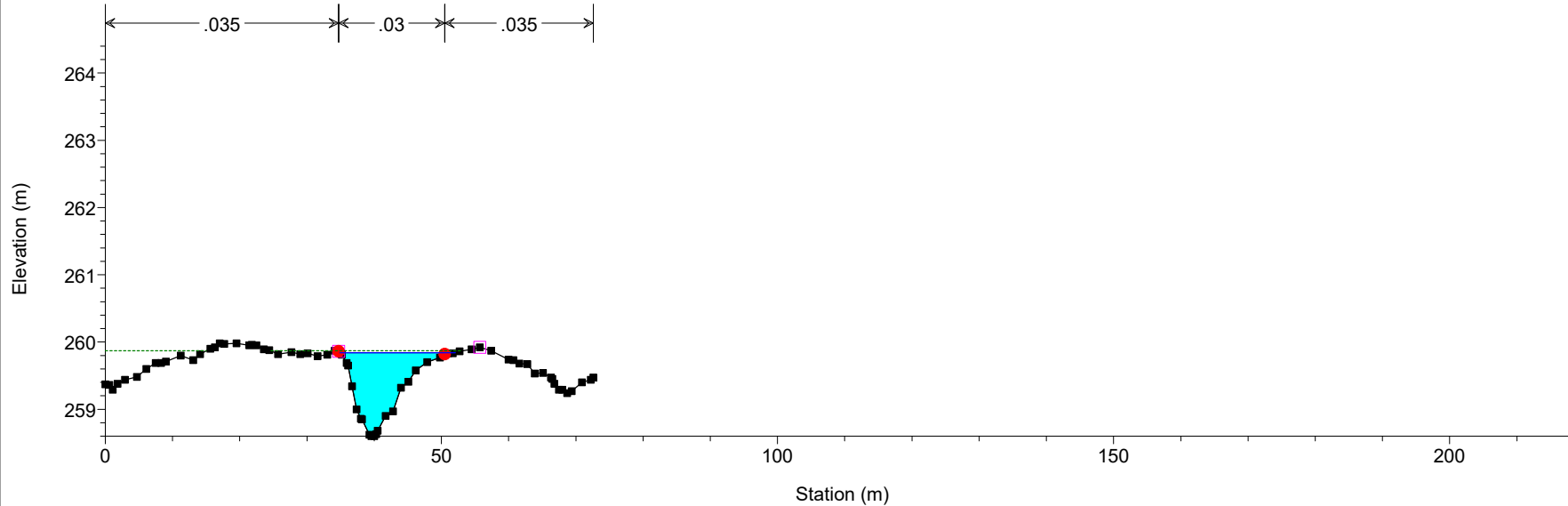
1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo
sez 17 rilievo



Legend	
---	EG Max WS
—	WS Max WS
■	Ground
□	Levee
●	Bank Sta

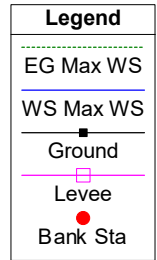
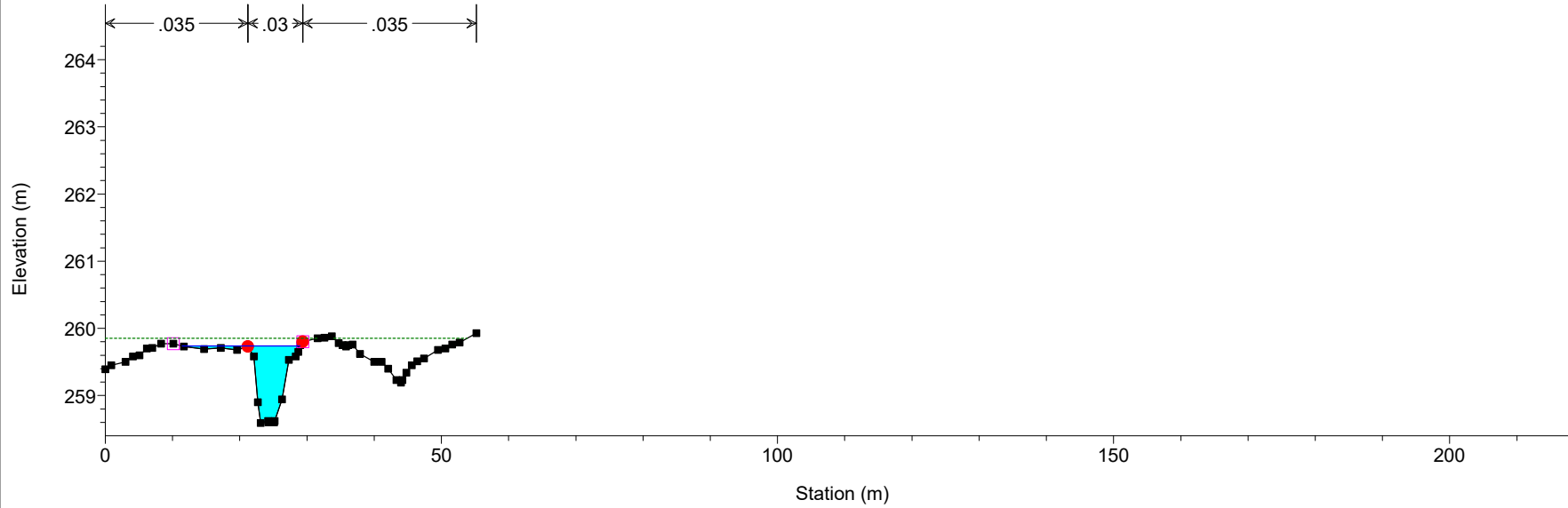
ristagno_rev1 Plan: Q200 definitivo
sez 18 rilievo



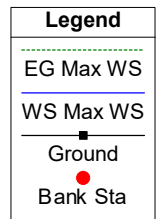
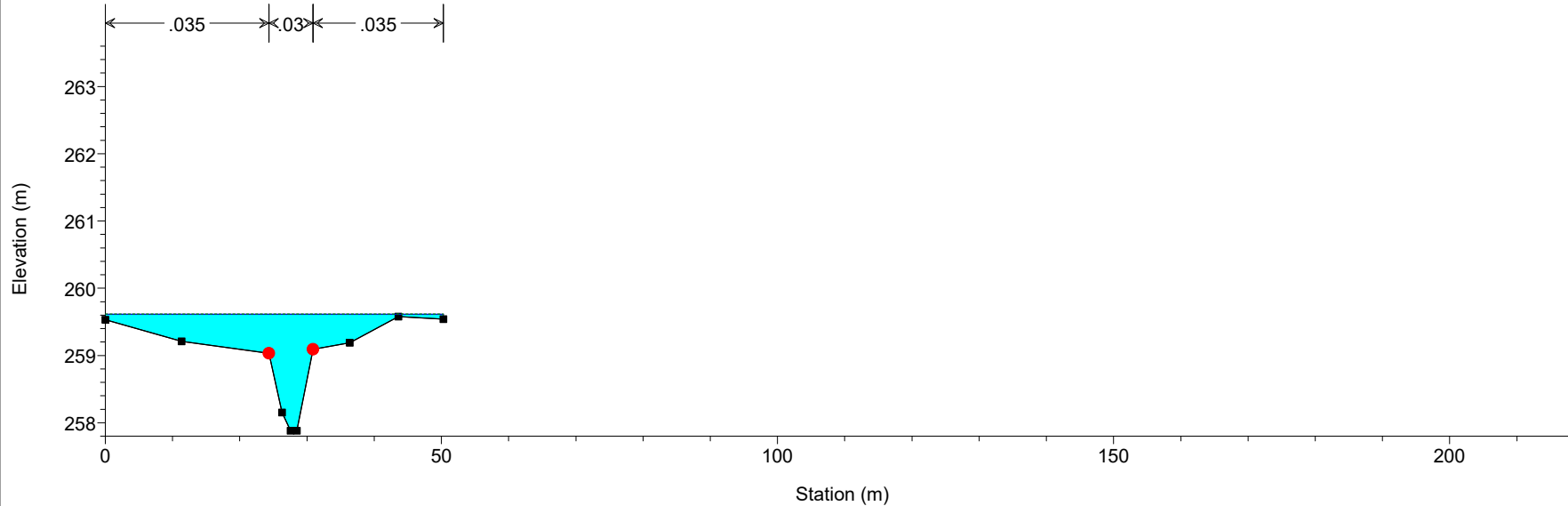
Legend	
---	EG Max WS
—	WS Max WS
■	Ground
□	Levee
●	Bank Sta

1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo
sez 19 rilievo

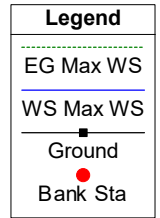
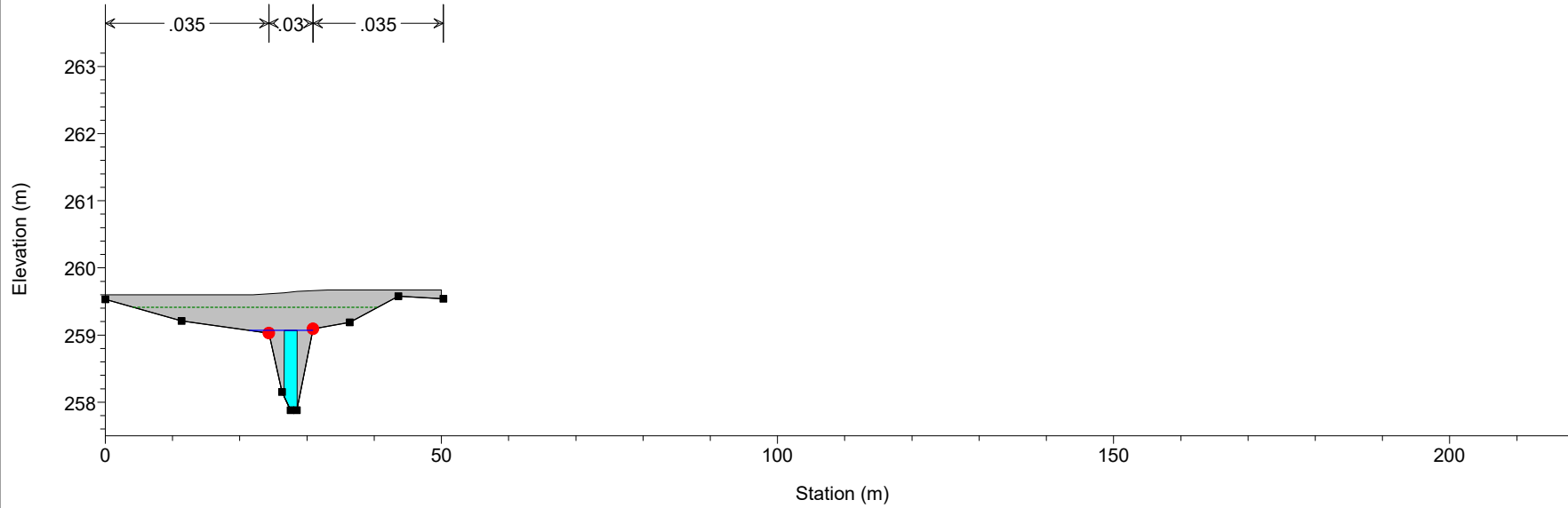


ristagno_rev1 Plan: Q200 definitivo
sez 20 rilievo

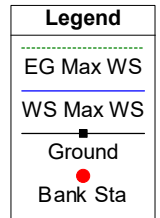
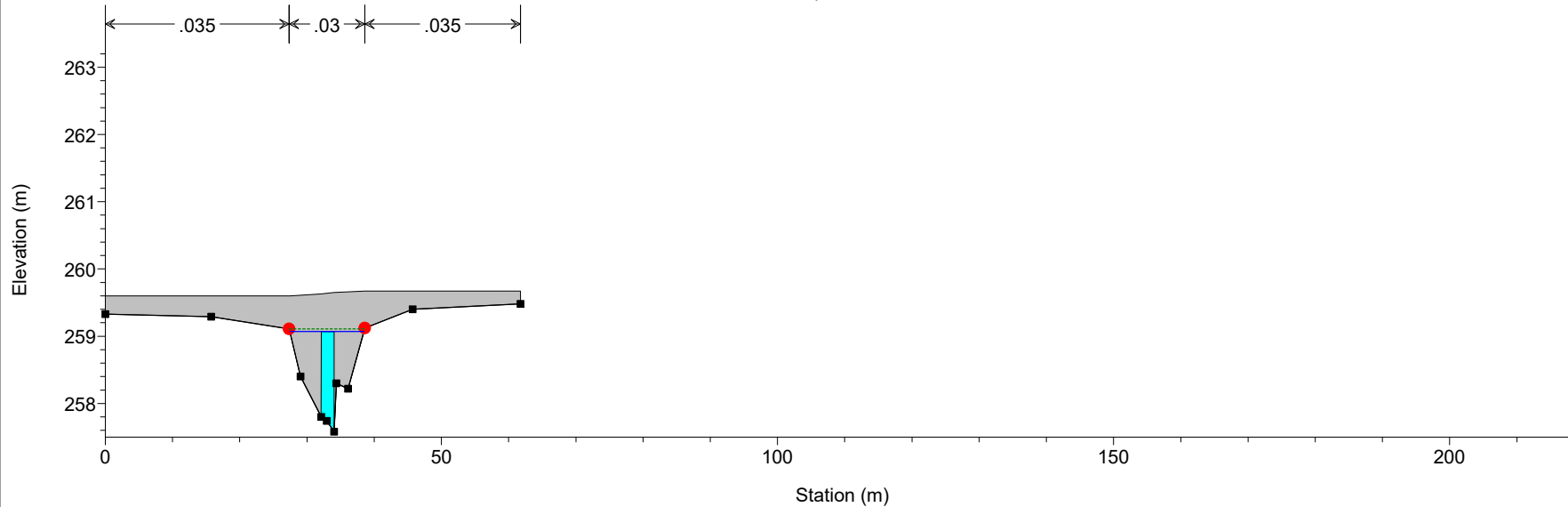


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo
 ponte SP 22

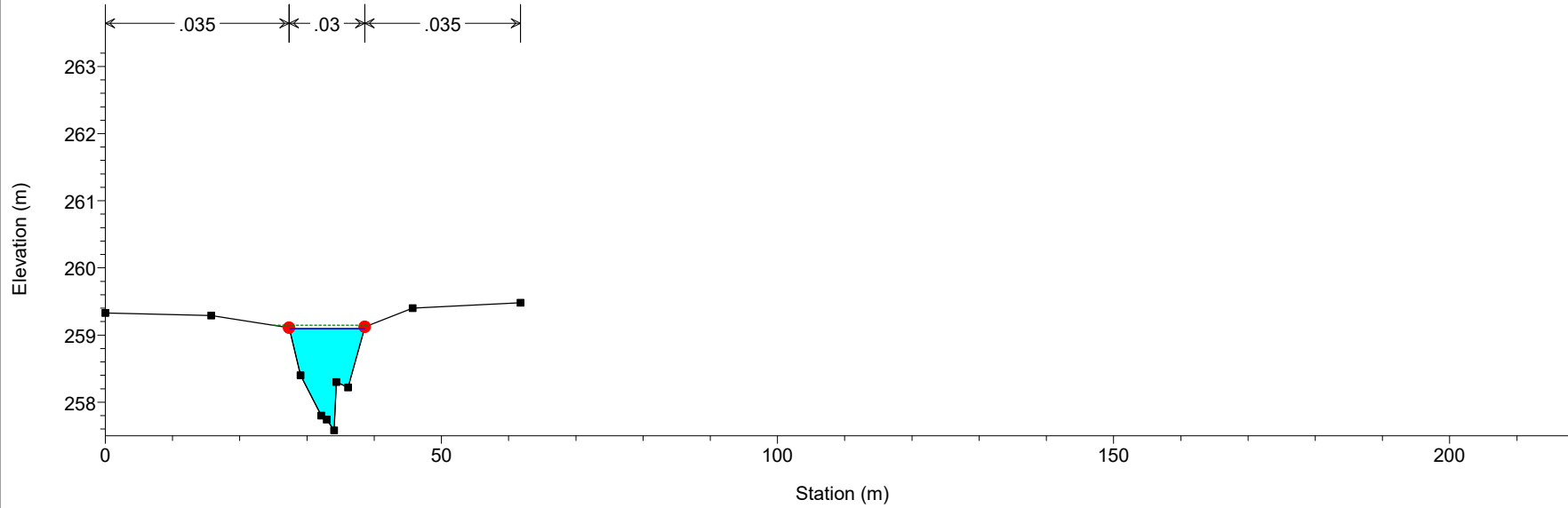


ristagno_rev1 Plan: Q200 definitivo
 ponte SP 22



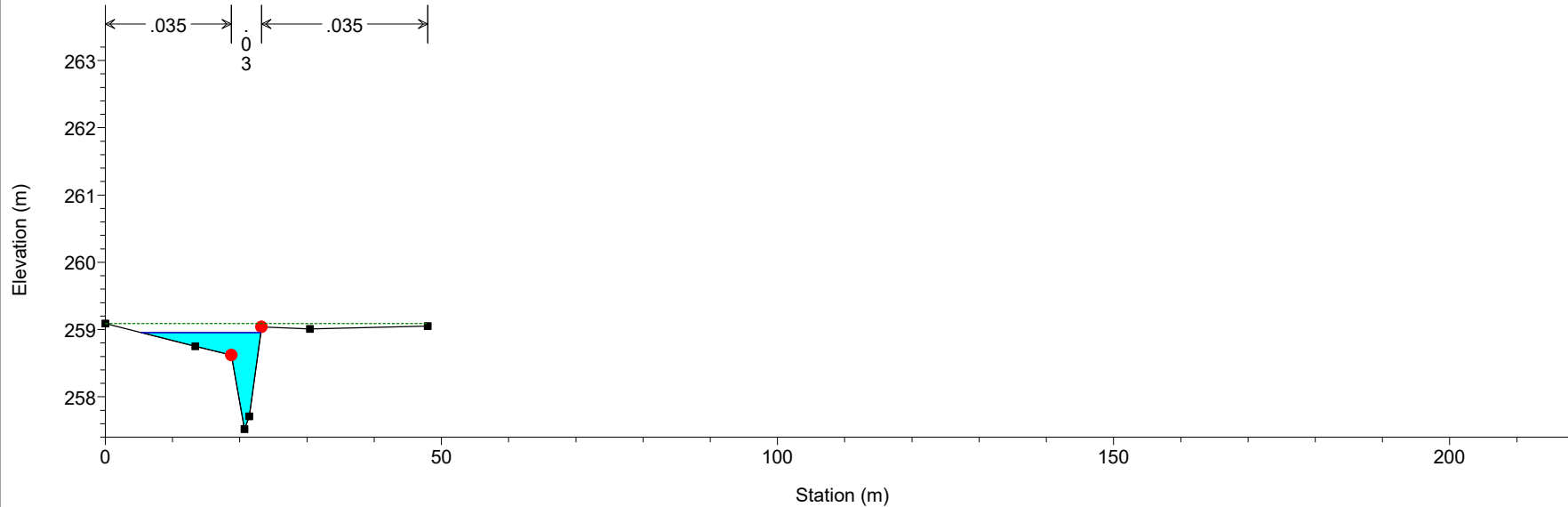
1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo
sez 21 rilievo



Legend	
	EG Max WS
	WS Max WS
	Ground
	Bank Sta

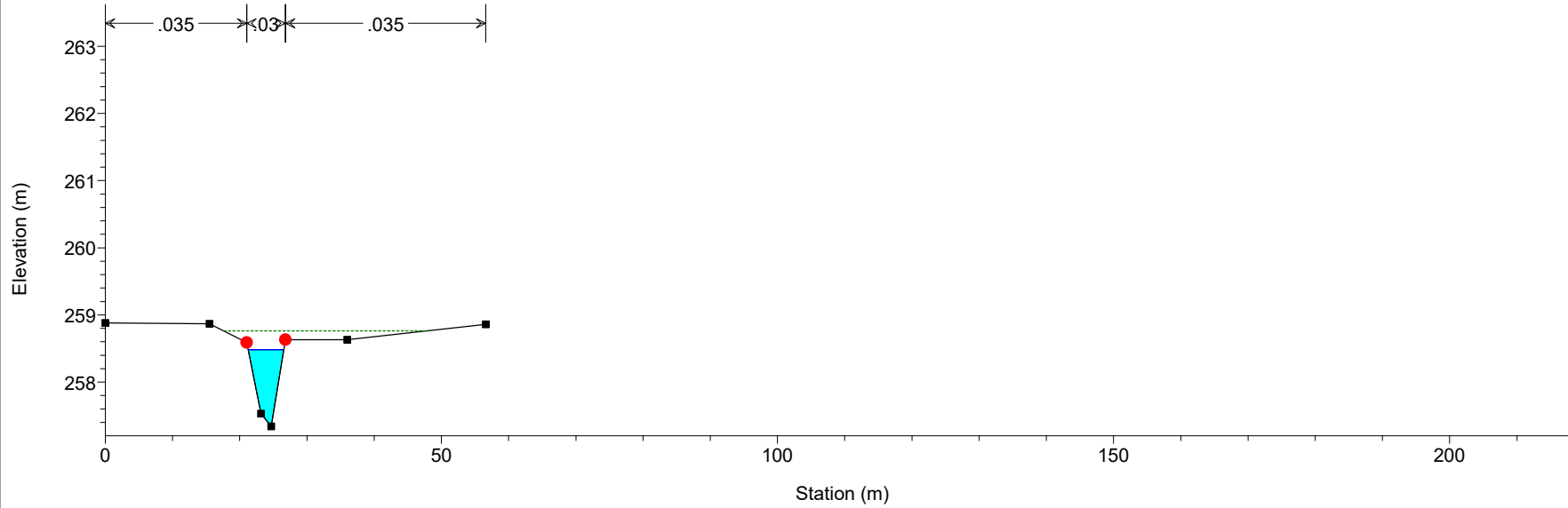
ristagno_rev1 Plan: Q200 definitivo
sez 22 rilievo



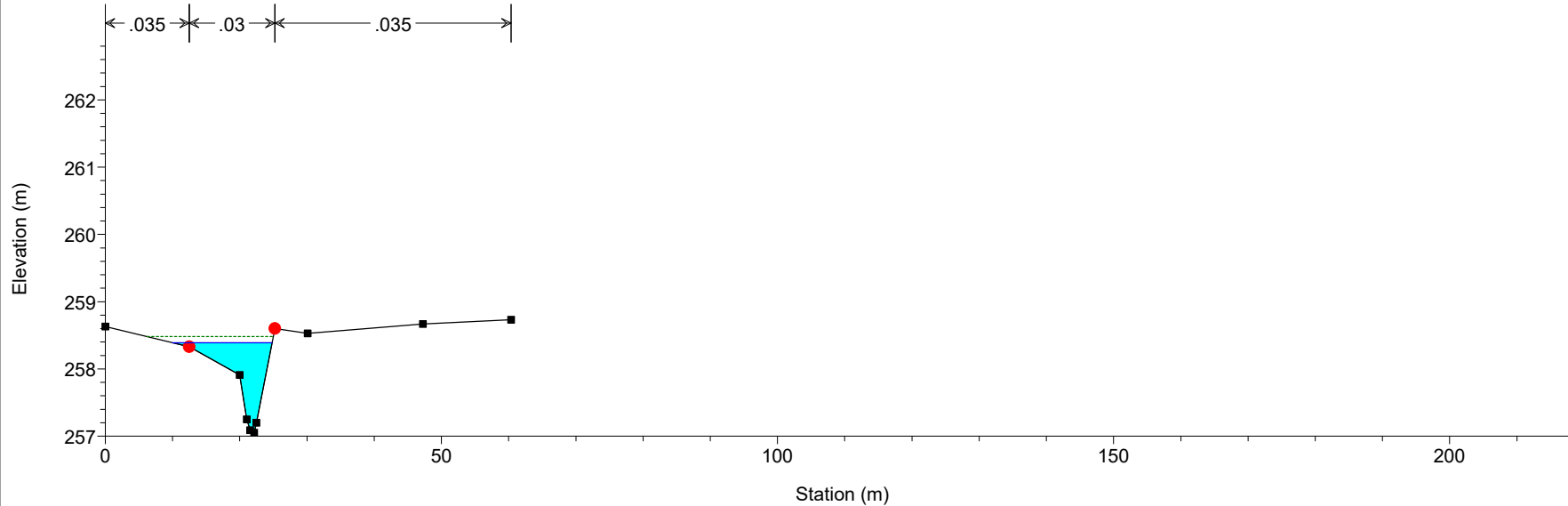
Legend	
	EG Max WS
	WS Max WS
	Ground
	Bank Sta

1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo
sez 23 rilievo

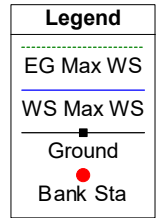
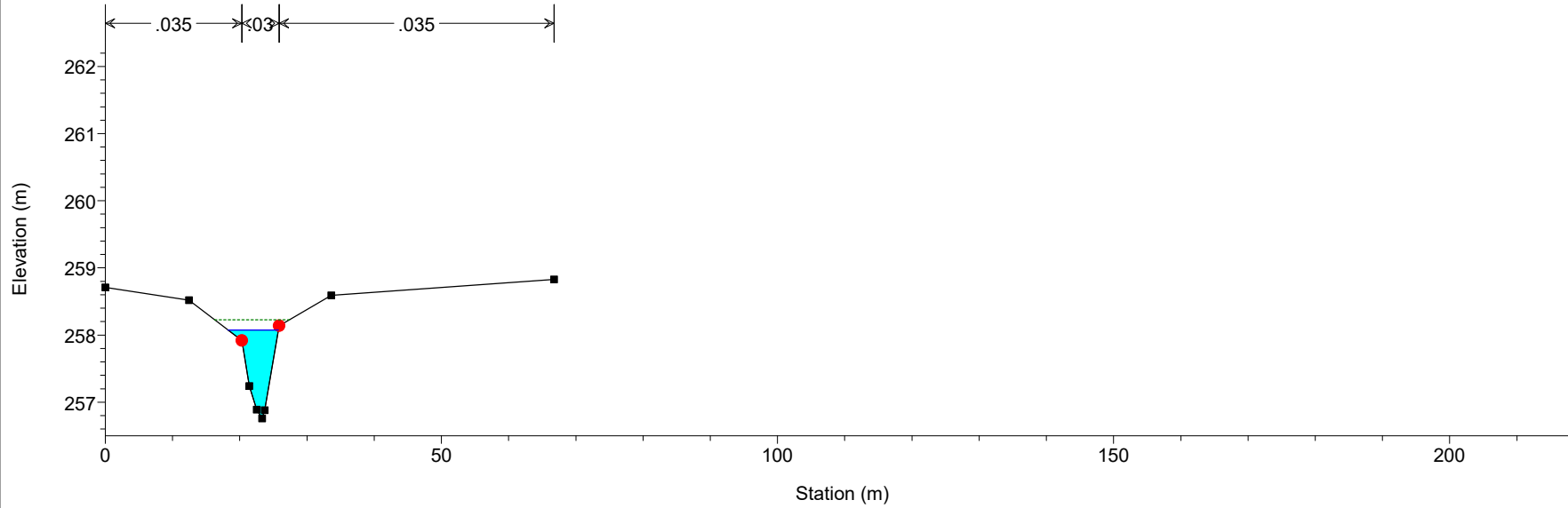


ristagno_rev1 Plan: Q200 definitivo
sez 24 rilievo

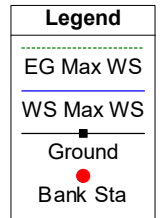
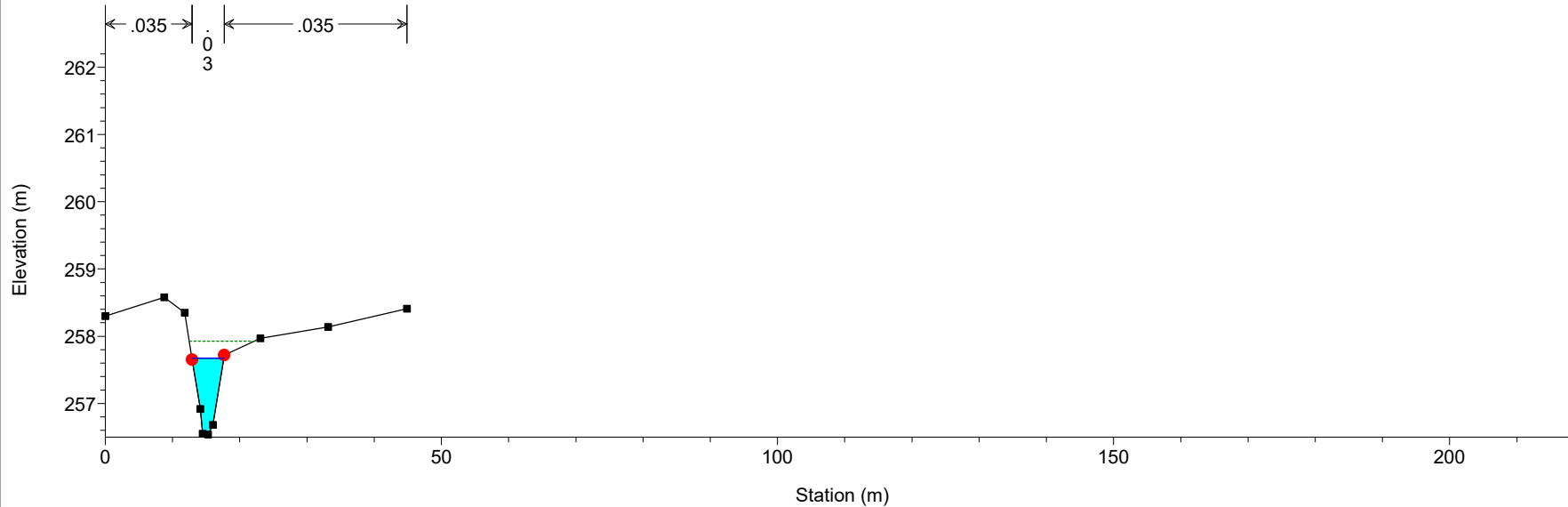


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo
sez 25 rilievo

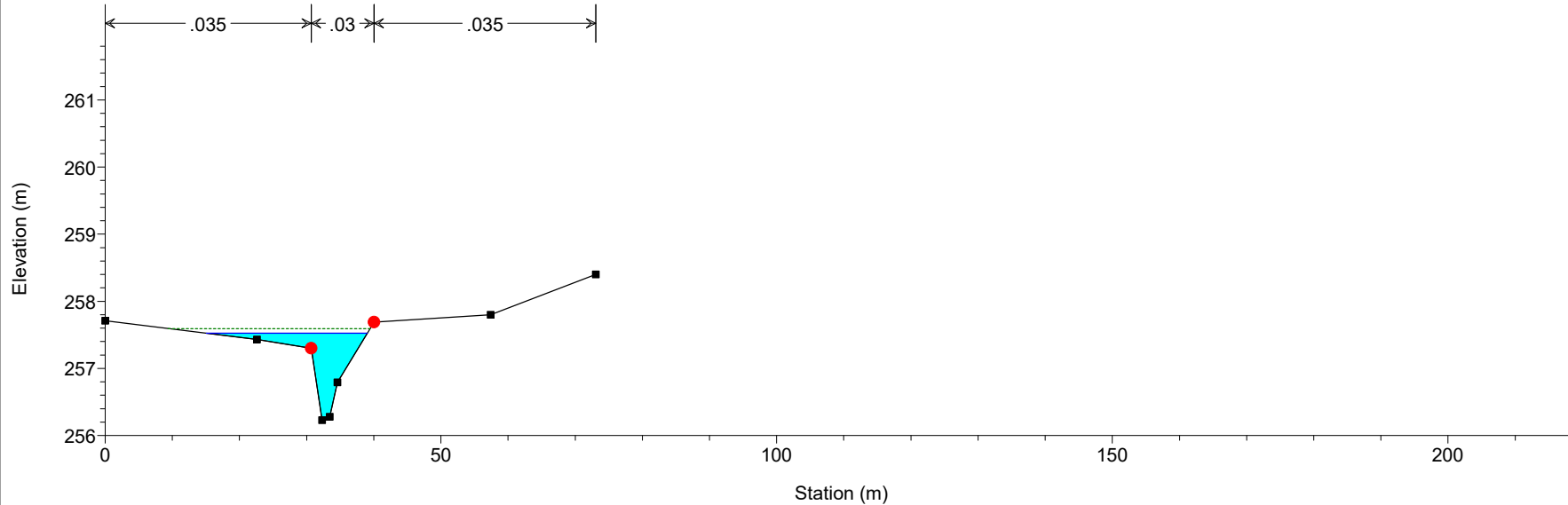


ristagno_rev1 Plan: Q200 definitivo
sez 26 rilievo

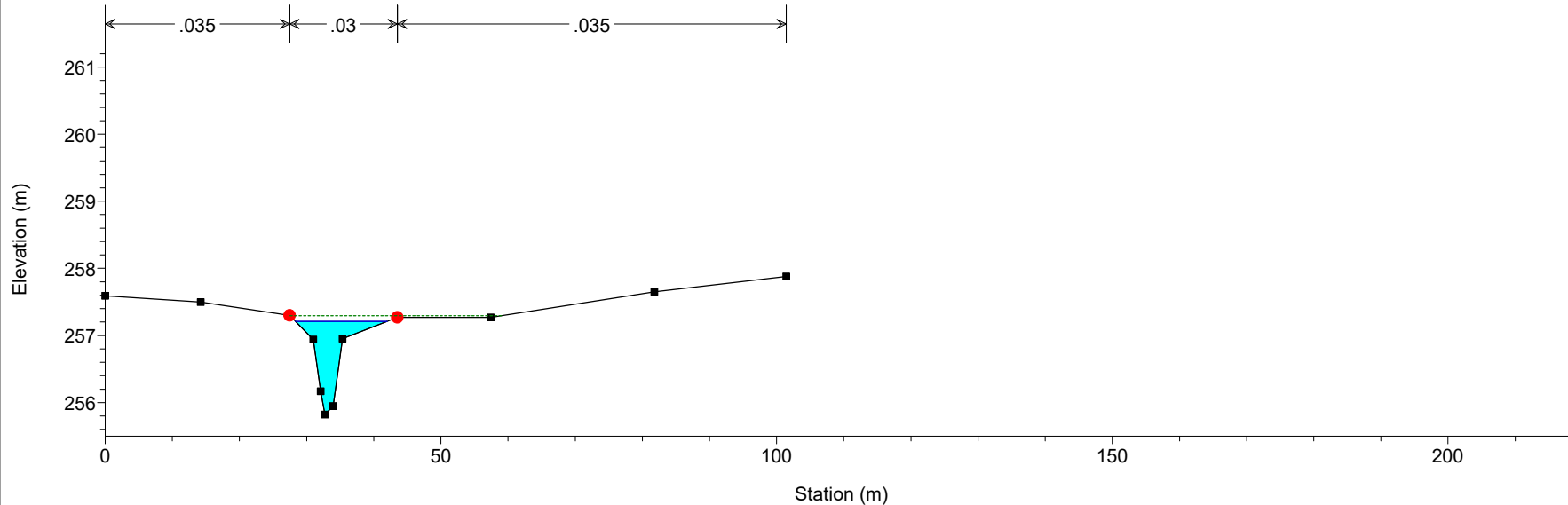


1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo
sez 27 rilievo



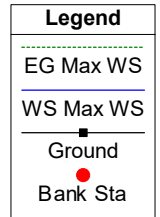
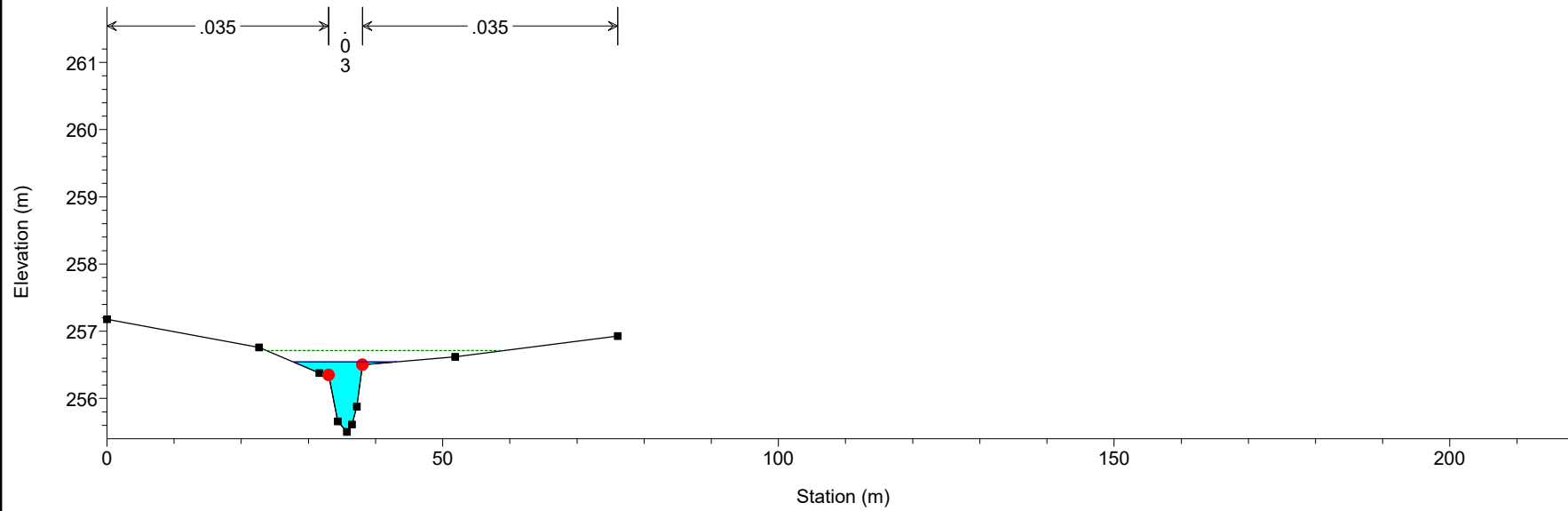
ristagno_rev1 Plan: Q200 definitivo
sez 28 rilievo



1 cm Horiz. = 10 m 1 cm Vert. = 1 m

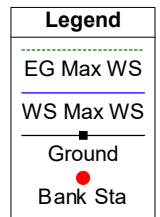
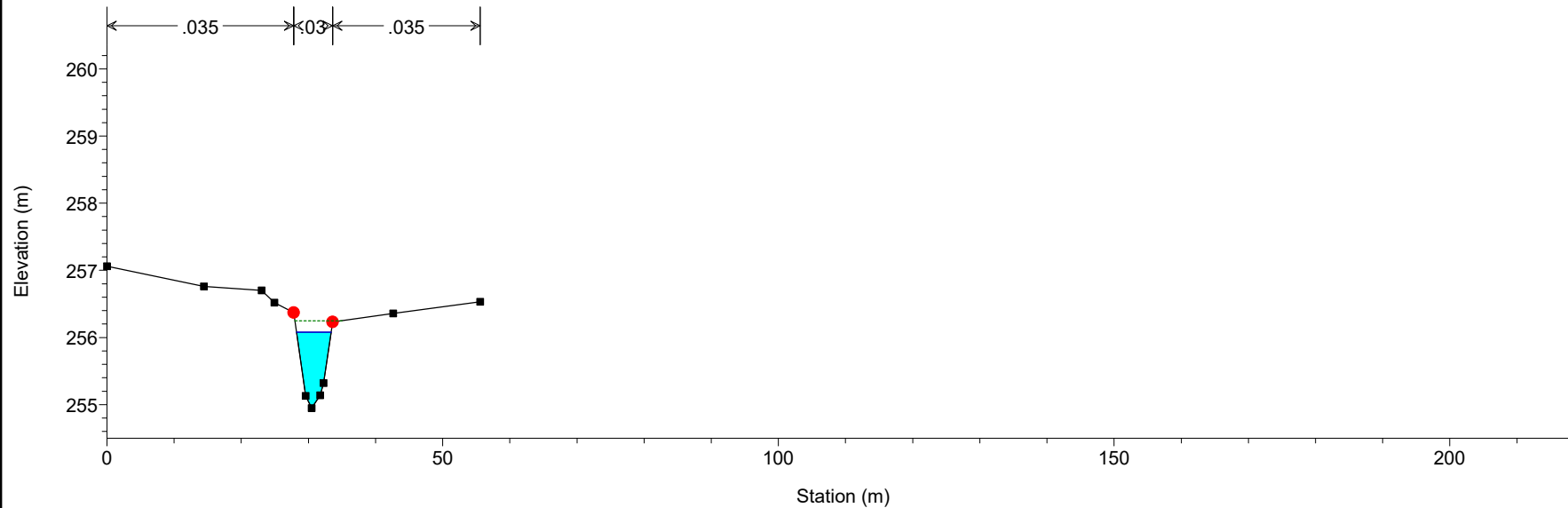
ristagno_rev1 Plan: Q200 definitivo

sez 29 rilievo



ristagno_rev1 Plan: Q200 definitivo

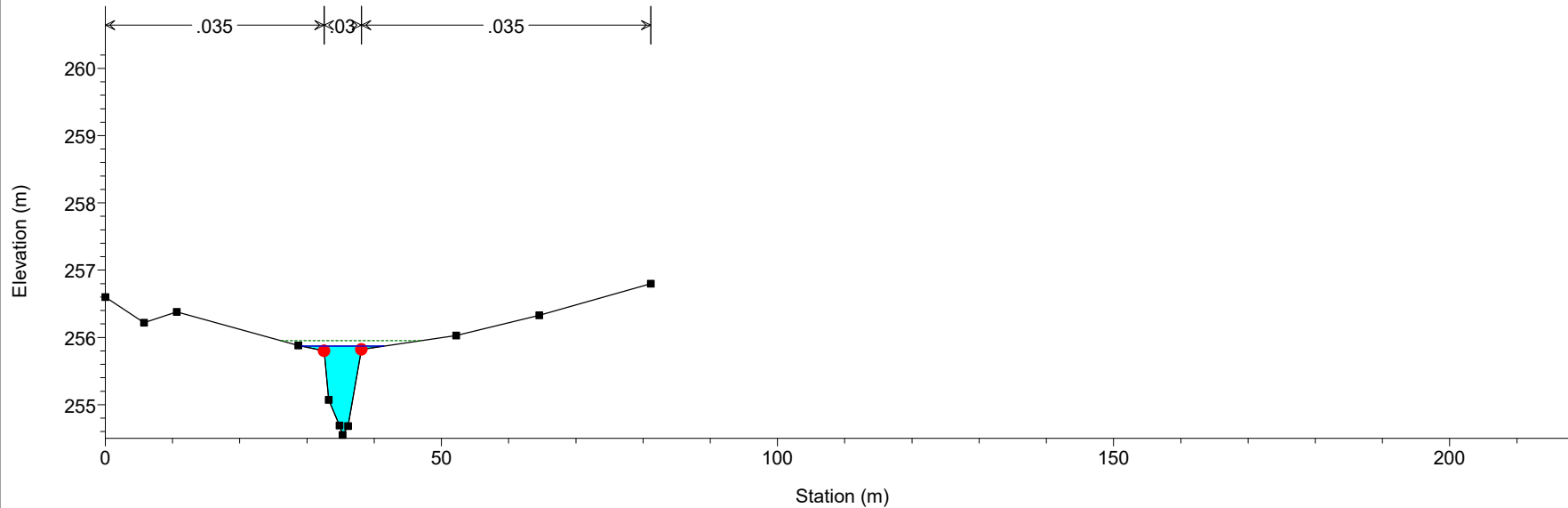
sez 30 rilievo



1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo

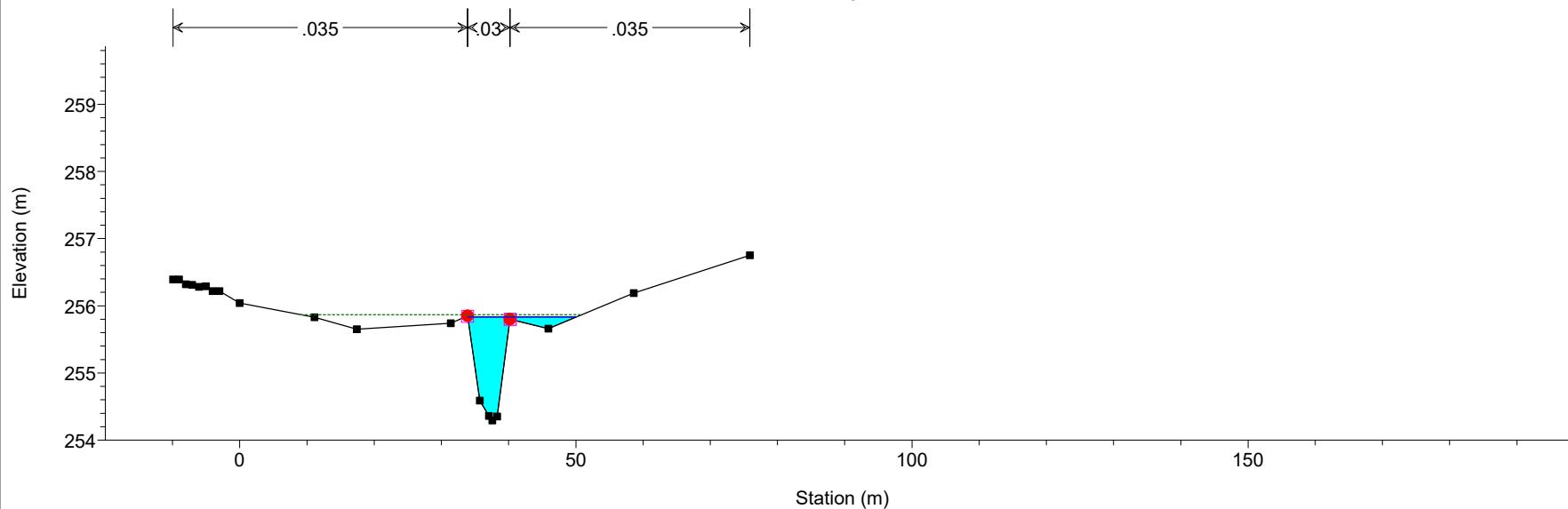
sez 31 rilievo



Legend	
---	EG Max WS
—	WS Max WS
■	Ground
●	Bank Sta

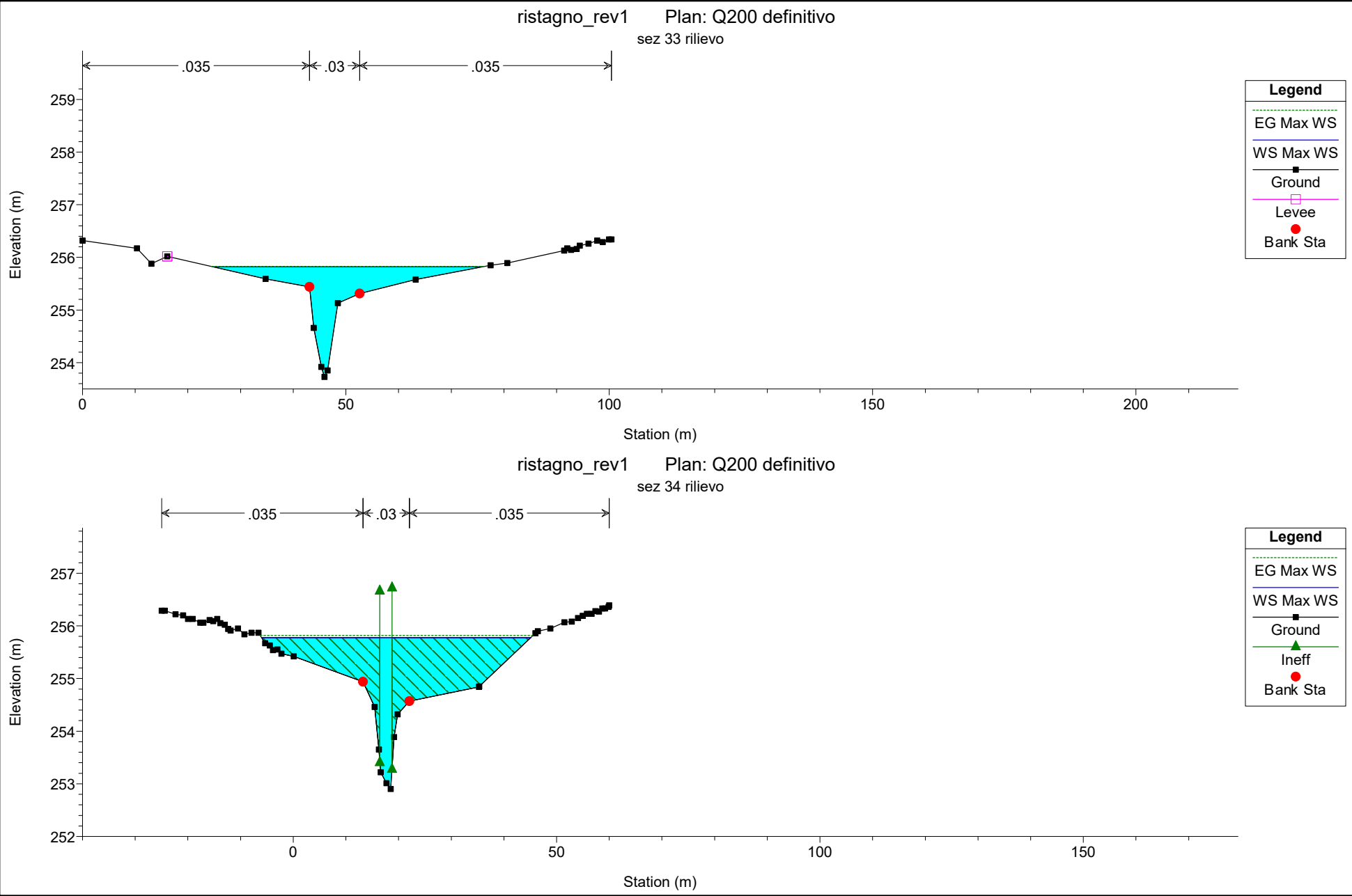
ristagno_rev1 Plan: Q200 definitivo

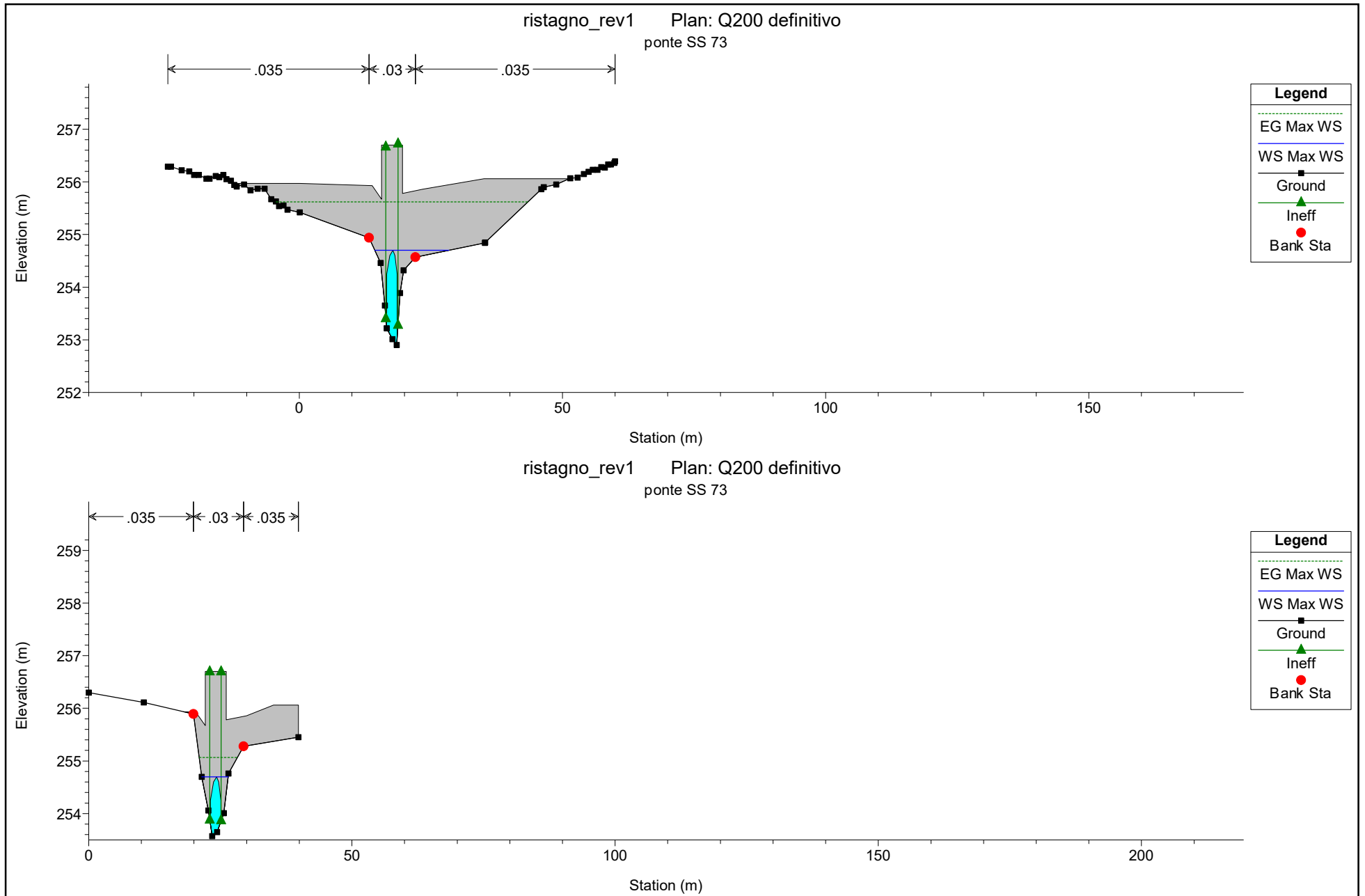
sez 32 rilievo



Legend	
---	EG Max WS
—	WS Max WS
■	Ground
□	Levee
●	Bank Sta

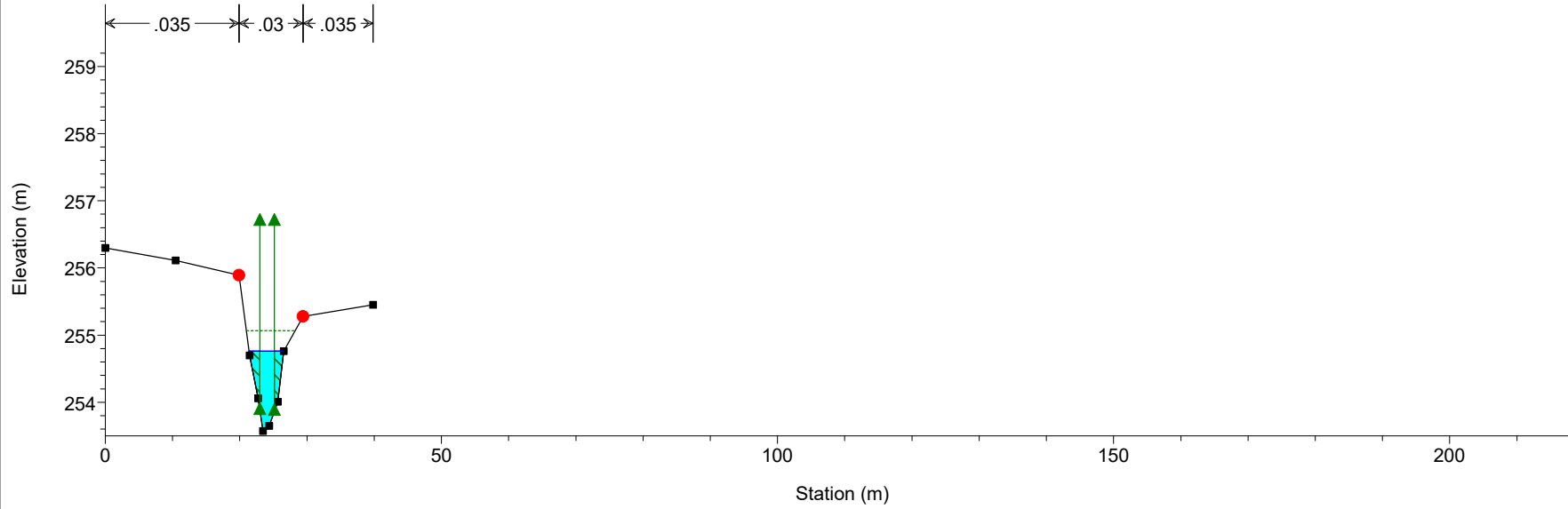
1 cm Horiz. = 10 m 1 cm Vert. = 1 m





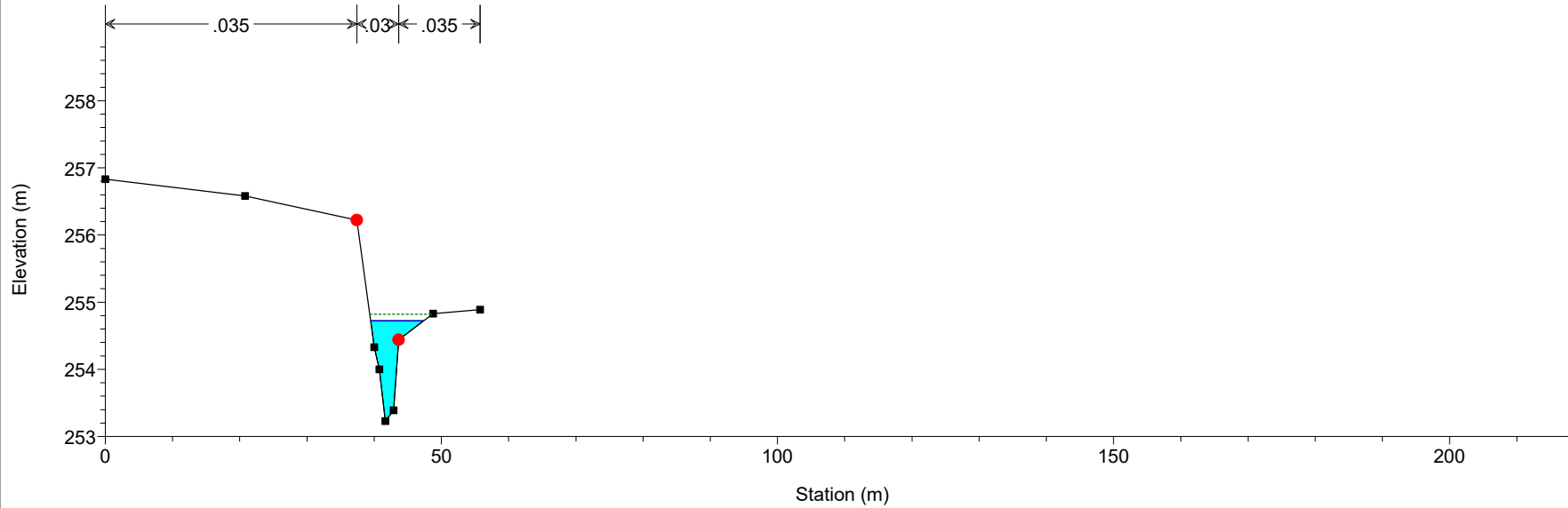
1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo
sez 36 rilievo



Legend	
---	EG Max WS
—	WS Max WS
■	Ground
▲	Ineff
●	Bank Sta

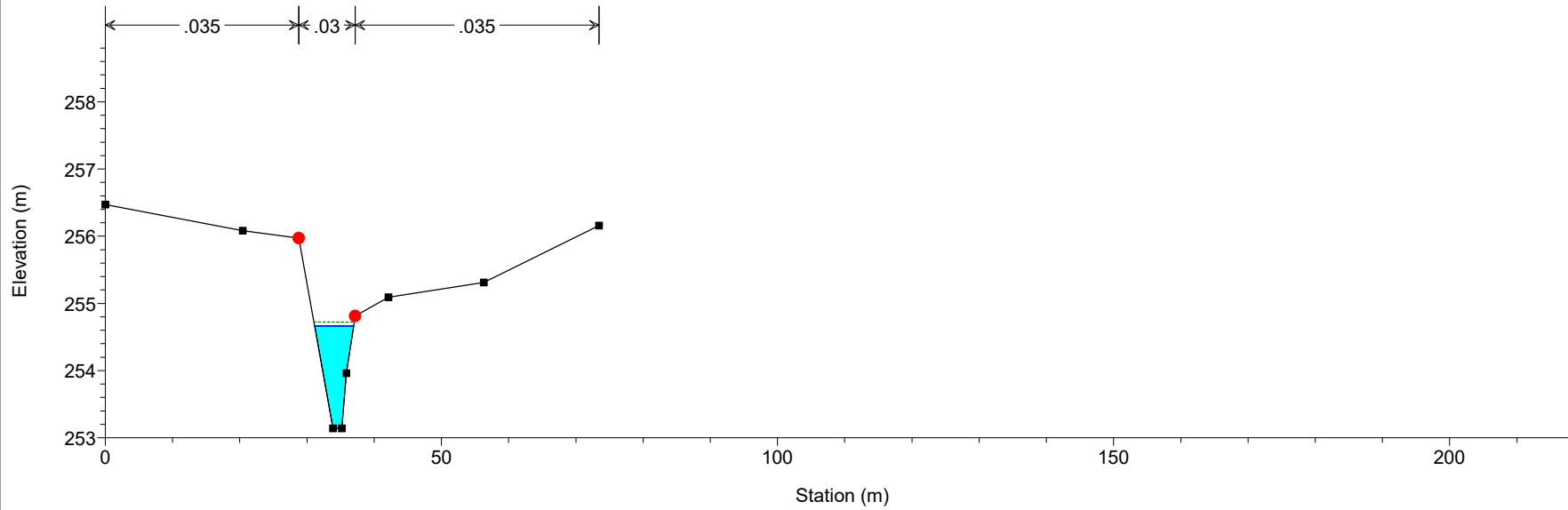
ristagno_rev1 Plan: Q200 definitivo
sez 37 rilievo



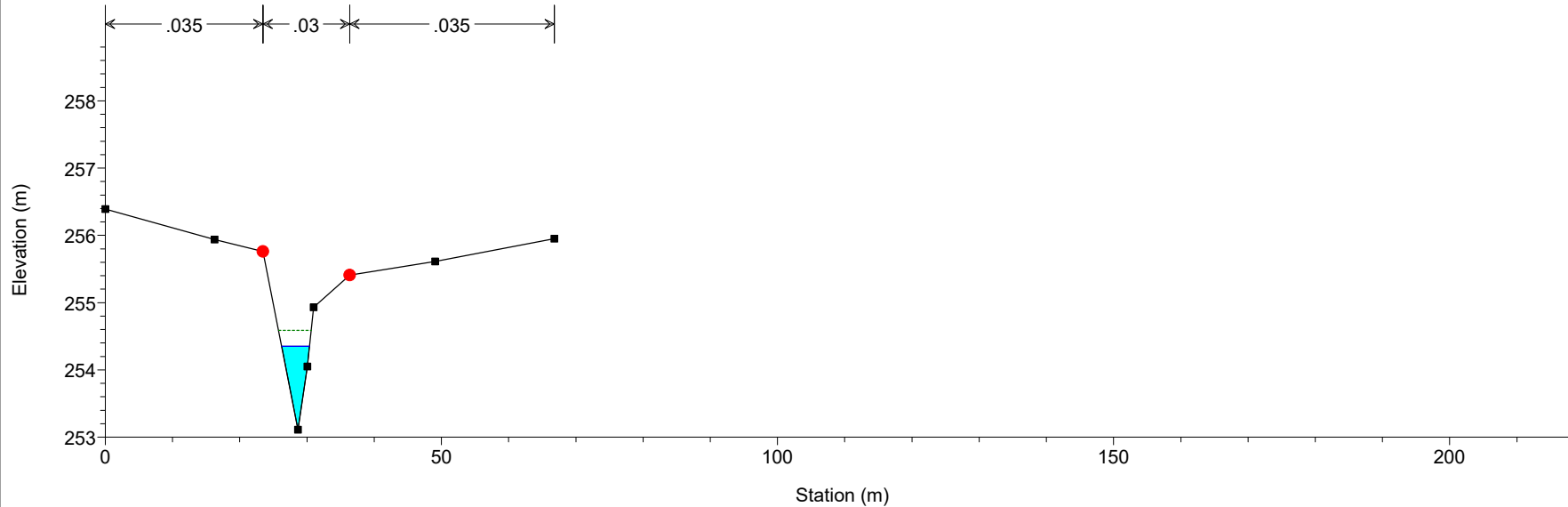
Legend	
---	EG Max WS
—	WS Max WS
■	Ground
●	Bank Sta

1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo
sez 38 rilievo

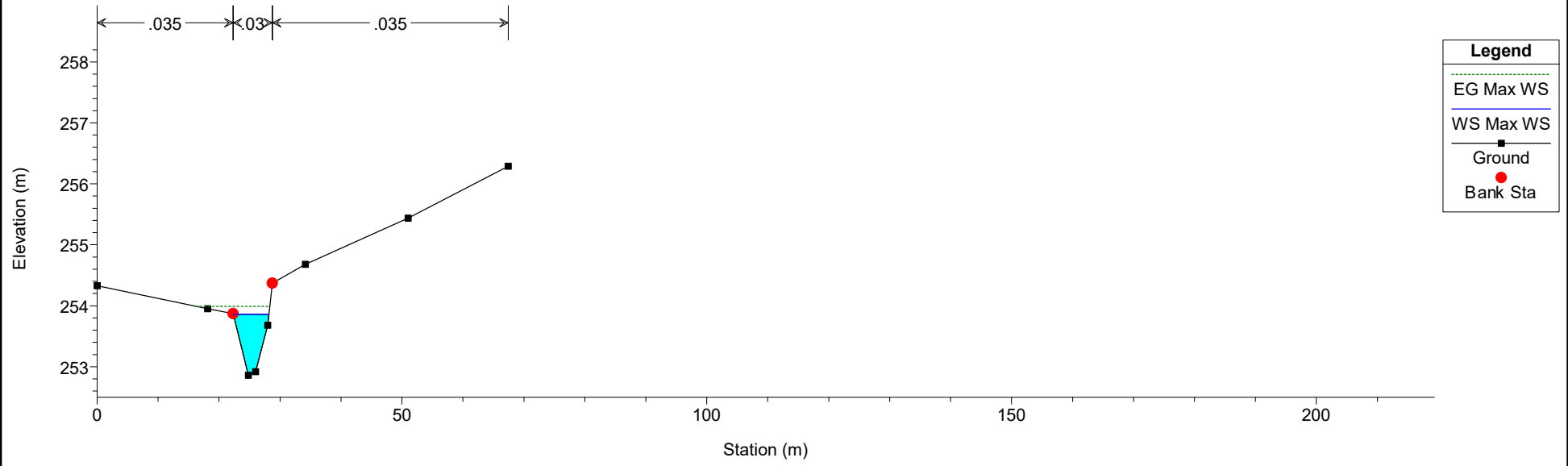


ristagno_rev1 Plan: Q200 definitivo
sez 39 rilievo



1 cm Horiz. = 10 m 1 cm Vert. = 1 m

ristagno_rev1 Plan: Q200 definitivo
sez 40 rilievo



1 cm Horiz. = 10 m 1 cm Vert. = 1 m

HEC-RAS Plan: Q200_ok River: ristagno Reach: ristagno Profile: Max WS

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
ristagno	1531	Max WS	1.00	270.09	270.33	270.34	270.42	0.021438	1.36	0.75	5.89	1.13
ristagno	1530		Lat Struct									
ristagno	1529		Lat Struct									
ristagno	1266	Max WS	1.01	268.36	268.84	268.84	268.96	0.017096	1.57	0.64	2.78	1.04
ristagno	995	Max WS	1.01	267.56	268.02		268.04	0.002883	0.66	1.52	6.66	0.44
ristagno	856	Max WS	0.70	267.24	267.97		267.97	0.000034	0.11	7.12	21.10	0.05
ristagno	500		Culvert									
ristagno	243	Max WS	0.70	265.00	265.58		265.61	0.004117	0.77	0.92	4.01	0.51
ristagno	148	Max WS	0.70	264.78	265.33		265.41	0.010337	1.24	0.57	2.31	0.79
ristagno	36	Max WS	0.70	264.42	264.92		265.03	0.012002	1.42	0.49	1.72	0.85
ristagno	35	Max WS	0.64	263.68	264.26		264.27	0.001143	0.48	2.22	15.64	0.25
ristagno	34	Max WS	5.55	263.47	264.22		264.23	0.000130	0.24	35.55	118.45	0.11
ristagno	32	Max WS	7.39	262.10	263.10	263.17	263.27	0.014834	2.54	5.68	35.46	0.95
ristagno	31	Max WS	7.01	261.88	262.74		262.74	0.000387	0.42	25.41	75.79	0.17
ristagno	30.6	Max WS	7.26	261.10	262.64	261.96	262.78	0.001305	1.60	4.54	20.47	0.41
ristagno	30.5		Bridge									
ristagno	30	Max WS	7.24	261.10	262.18		262.46	0.004448	2.33	3.11	10.62	0.72
ristagno	29	Max WS	7.24	260.92	262.21		262.35	0.004429	1.66	4.37	6.12	0.63
ristagno	28	Max WS	7.24	260.54	261.78		262.08	0.010744	2.41	3.01	4.36	0.93
ristagno	27	Max WS	7.09	260.05	261.46		261.70	0.008154	2.20	3.22	4.19	0.80
ristagno	26	Max WS	6.56	259.81	261.17		261.26	0.002487	1.36	5.84	19.16	0.47
ristagno	25.6	Max WS	7.67	259.62	261.14	260.53	261.16	0.000418	0.71	17.13	40.33	0.21
ristagno	25.4		Bridge									
ristagno	25	Max WS	7.36	259.62	260.76		260.87	0.003318	1.52	5.56	14.50	0.56
ristagno	24	Max WS	7.30	259.39	260.53	260.44	260.77	0.008034	2.15	3.43	6.93	0.83
ristagno	23	Max WS	5.74	258.85	260.17		260.27	0.003045	1.36	4.23	6.12	0.52
ristagno	22	Max WS	6.32	258.60	259.84		259.87	0.001027	0.72	8.81	17.20	0.31
ristagno	21	Max WS	7.49	258.59	259.74		259.85	0.004145	1.50	5.26	17.52	0.60
ristagno	20	Max WS	4.38	257.88	259.61	258.58	259.62	0.000078	0.33	22.02	50.28	0.09
ristagno	19.5		Bridge									
ristagno	19	Max WS	8.99	257.58	259.10		259.15	0.001207	0.97	9.24	11.17	0.34
ristagno	18	Max WS	7.98	257.52	258.95		259.09	0.004258	1.78	6.03	17.78	0.61
ristagno	17	Max WS	8.33	257.34	258.48		258.76	0.009601	2.34	3.55	5.29	0.91
ristagno	16	Max WS	8.09	257.05	258.39		258.48	0.004320	1.33	6.15	14.82	0.60
ristagno	15	Max WS	7.63	256.76	258.08		258.23	0.004180	1.73	4.52	7.48	0.62
ristagno	14	Max WS	7.32	256.54	257.67		257.93	0.008660	2.23	3.28	4.74	0.85
ristagno	13	Max WS	7.11	256.23	257.52		257.59	0.002559	1.22	7.05	23.98	0.48

HEC-RAS Plan: Q200_ok River: ristagno Reach: ristagno Profile: Max WS (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
ristagno	12	Max WS	7.01	255.82	257.21		257.30	0.005497	1.29	5.42	13.65	0.66
ristagno	11	Max WS	7.01	255.50	256.54	256.41	256.71	0.005221	1.84	4.33	15.37	0.69
ristagno	10	Max WS	6.89	254.95	256.08		256.25	0.005408	1.84	3.75	5.17	0.69
ristagno	9	Max WS	5.95	254.55	255.87		255.95	0.002083	1.26	4.91	12.25	0.44
ristagno	8	Max WS	5.62	254.29	255.83		255.87	0.000822	0.87	7.19	16.09	0.28
ristagno	7	Max WS	5.64	253.73	255.82		255.83	0.000168	0.43	19.46	51.05	0.13
ristagno	6	Max WS	5.64	252.90	255.78	253.92	255.82	0.000235	0.91	6.20	51.09	0.18
ristagno	5.5		Bridge									
ristagno	5	Max WS	5.64	253.57	254.76		255.06	0.005276	2.44	2.31	5.17	0.75
ristagno	4	Max WS	5.64	253.23	254.72		254.82	0.002665	1.41	4.37	7.84	0.47
ristagno	3	Max WS	5.64	253.14	254.66		254.72	0.001506	1.08	5.20	5.80	0.37
ristagno	2	Max WS	5.64	253.11	254.35		254.59	0.009546	2.16	2.61	4.13	0.87
ristagno	1	Max WS	5.64	252.86	253.86	253.69	253.99	0.005040	1.61	3.50	5.83	0.66

HEC-RAS Plan: Q200_ok River: ristagno Reach: ristagno Profile: Max WS

Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Vel Head (m)	Frctn Loss (m)	C & E Loss (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Top Width (m)
ristagno	1531	Max WS	270.42	270.33	0.09	1.56			0.99	0.01	5.89
ristagno	1530		Lat Struct								
ristagno	1529		Lat Struct								
ristagno	1266	Max WS	268.96	268.84	0.13	0.82			1.01		2.78
ristagno	995	Max WS	268.04	268.02	0.02	0.06			1.01		6.66
ristagno	856	Max WS	267.97	267.97	0.00			0.08	0.57	0.06	21.10
ristagno	500		Culvert								
ristagno	243	Max WS	265.61	265.58	0.03	0.21			0.70		4.01
ristagno	148	Max WS	265.41	265.33	0.08	0.38			0.70		2.31
ristagno	36	Max WS	265.03	264.92	0.10	0.60			0.70		1.72
ristagno	35	Max WS	264.27	264.26	0.01	0.04		0.42	0.22	0.00	15.64
ristagno	34	Max WS	264.23	264.22	0.00	1.03		4.36	0.58	0.61	118.45
ristagno	32	Max WS	263.27	263.10	0.17	0.35		4.00	3.38		35.46
ristagno	31	Max WS	262.74	262.74	0.00	0.04		6.29	0.72		75.79
ristagno	30.6	Max WS	262.78	262.64	0.13				7.26		20.47
ristagno	30.5		Bridge								
ristagno	30	Max WS	262.46	262.18	0.28	0.07			7.24		10.62
ristagno	29	Max WS	262.35	262.21	0.14	0.26			7.24		6.12
ristagno	28	Max WS	262.08	261.78	0.30	0.34			7.24		4.36
ristagno	27	Max WS	261.70	261.46	0.25	0.23			7.09		4.19
ristagno	26	Max WS	261.26	261.17	0.09	0.03		0.04	6.08	0.44	19.16
ristagno	25.6	Max WS	261.16	261.14	0.02			2.40	4.89	0.37	40.33
ristagno	25.4		Bridge								
ristagno	25	Max WS	260.87	260.76	0.11	0.13		0.39	6.97		14.50
ristagno	24	Max WS	260.77	260.53	0.24	0.30			7.29	0.01	6.93
ristagno	23	Max WS	260.27	260.17	0.09	0.19			5.74		6.12
ristagno	22	Max WS	259.87	259.84	0.03	0.09			6.32	0.00	17.20
ristagno	21	Max WS	259.85	259.74	0.11	0.17		0.06	7.43		17.52
ristagno	20	Max WS	259.62	259.61	0.00			1.20	2.74	0.44	50.28
ristagno	19.5		Bridge								
ristagno	19	Max WS	259.15	259.10	0.05	0.05			8.99		11.17
ristagno	18	Max WS	259.09	258.95	0.14	0.39		1.29	6.69		17.78
ristagno	17	Max WS	258.76	258.48	0.28	0.17			8.33		5.29
ristagno	16	Max WS	258.48	258.39	0.09	0.26		0.01	8.07		14.82
ristagno	15	Max WS	258.23	258.08	0.15	0.28		0.05	7.57		7.48
ristagno	14	Max WS	257.93	257.67	0.25	0.24		0.00	7.32		4.74
ristagno	13	Max WS	257.59	257.52	0.07	0.29		0.53	6.59		23.98

HEC-RAS Plan: Q200_ok River: ristagno Reach: ristagno Profile: Max WS (Continued)

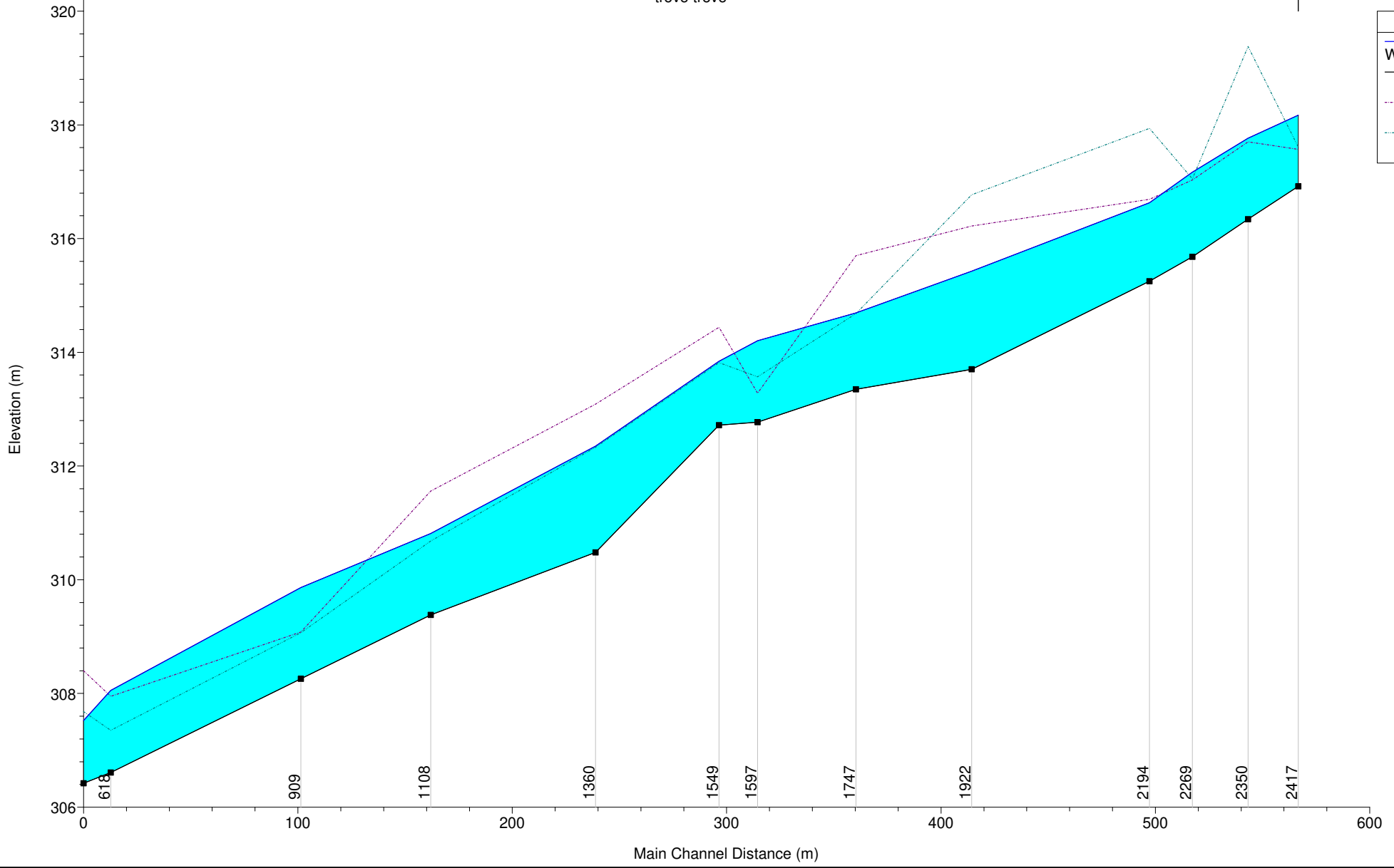
Reach	River Sta	Profile	E.G. Elev	W.S. Elev	Vel Head	Frctn Loss	C & E Loss	Q Left	Q Channel	Q Right	Top Width
			(m)	(m)	(m)	(m)	(m)	(m3/s)	(m3/s)	(m3/s)	(m)
ristagno	12	Max WS	257.30	257.21	0.09	0.62			7.01		13.65
ristagno	11	Max WS	256.71	256.54	0.17	0.46		0.26	6.73	0.02	15.37
ristagno	10	Max WS	256.25	256.08	0.17	0.24			6.89		5.17
ristagno	9	Max WS	255.95	255.87	0.08	0.07		0.02	5.92	0.01	12.25
ristagno	8	Max WS	255.87	255.83	0.04	0.03			5.46	0.16	16.09
ristagno	7	Max WS	255.83	255.82	0.01	0.01		0.47	4.39	0.78	51.05
ristagno	6	Max WS	255.82	255.78	0.04				5.64		51.09
ristagno	5.5		Bridge								
ristagno	5	Max WS	255.06	254.76	0.30	0.16			5.64		5.17
ristagno	4	Max WS	254.82	254.72	0.10	0.09			5.43	0.21	7.84
ristagno	3	Max WS	254.72	254.66	0.06	0.14			5.64		5.80
ristagno	2	Max WS	254.59	254.35	0.24	0.57			5.64		4.13
ristagno	1	Max WS	253.99	253.86	0.13				5.64		5.83

OUTPUT HEC-RAS
TR200

TORRENTE TROVE

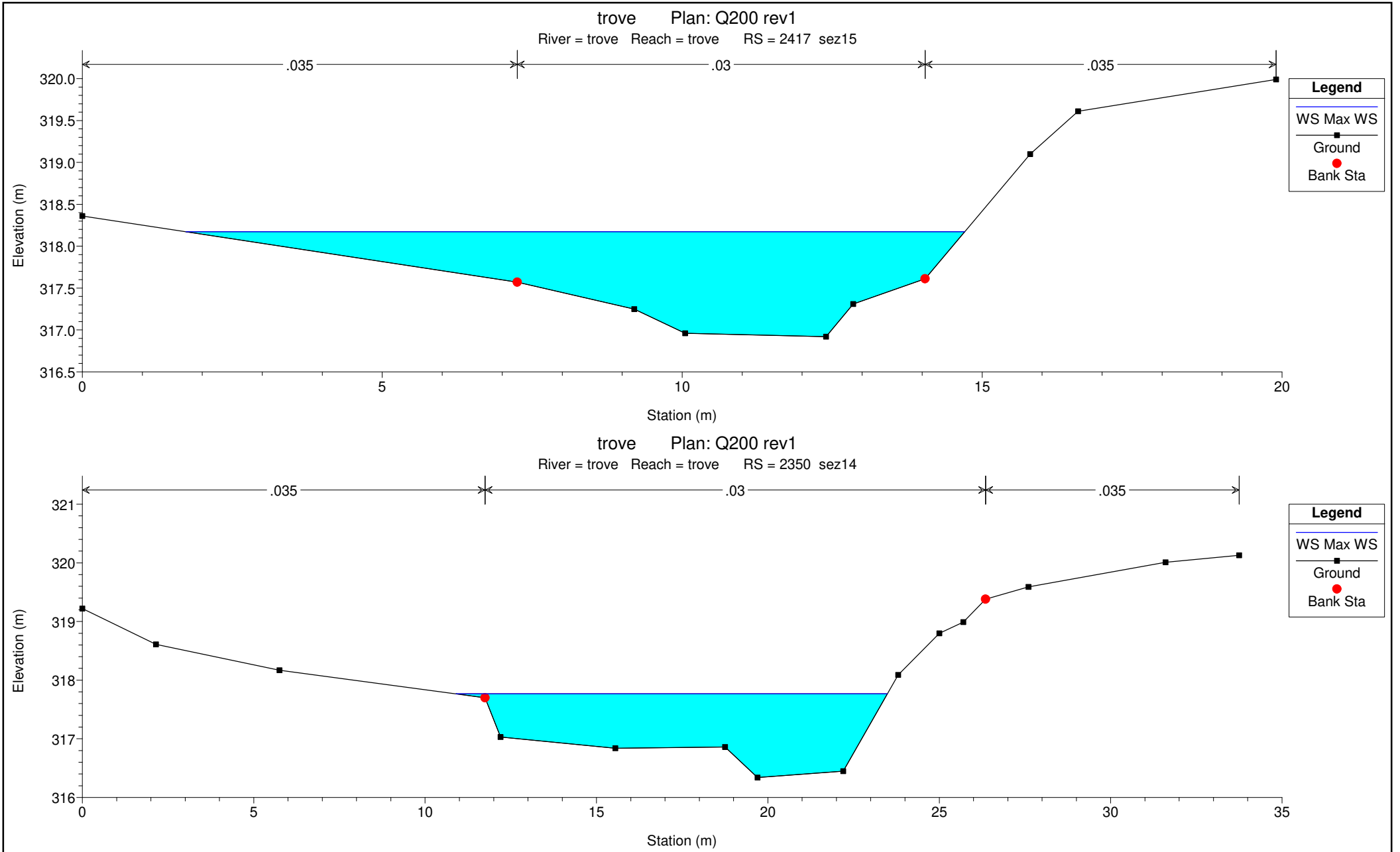
trove Plan: Q200 rev1

trove trove

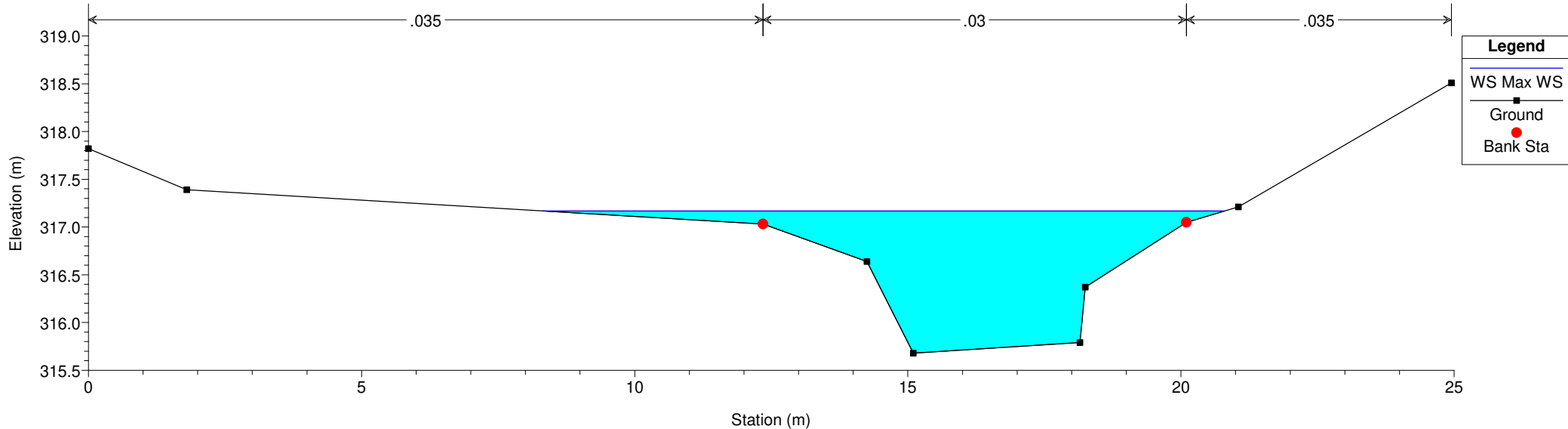


Legend

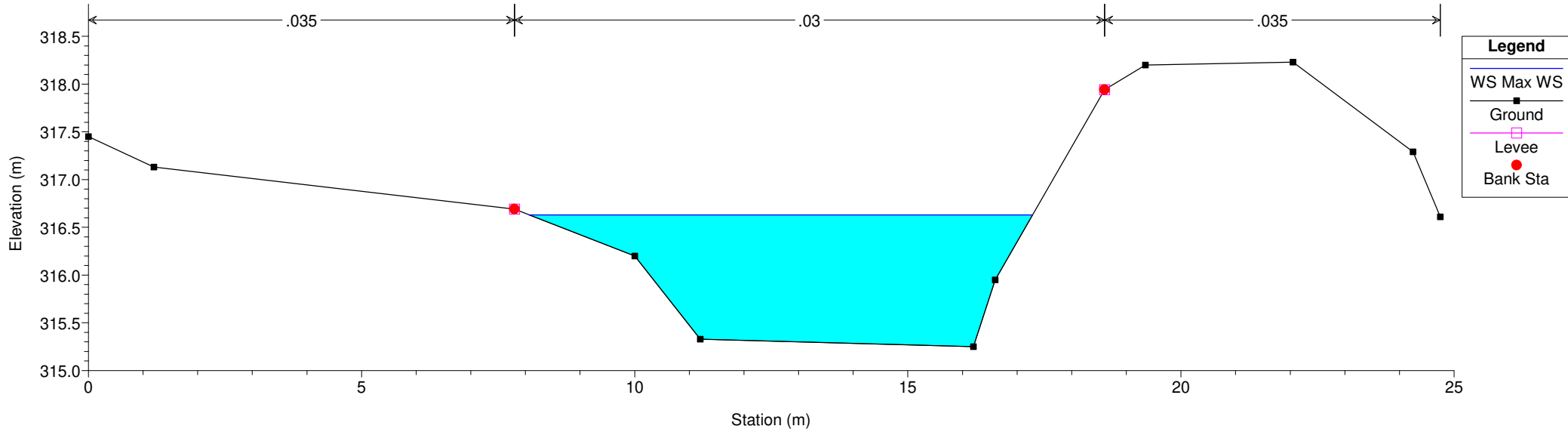
- WS Max WS
- Ground
- LOB
- ROB

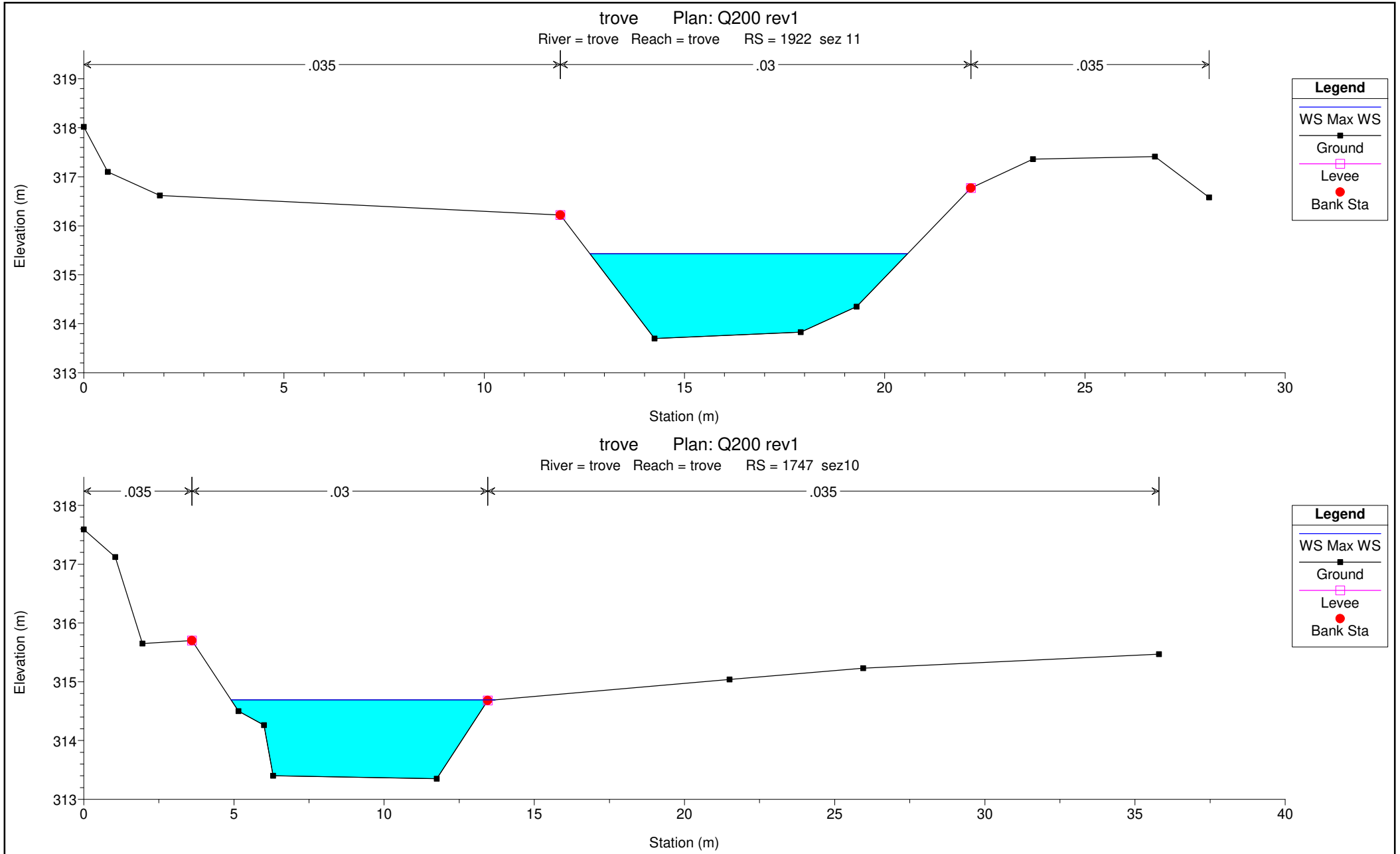


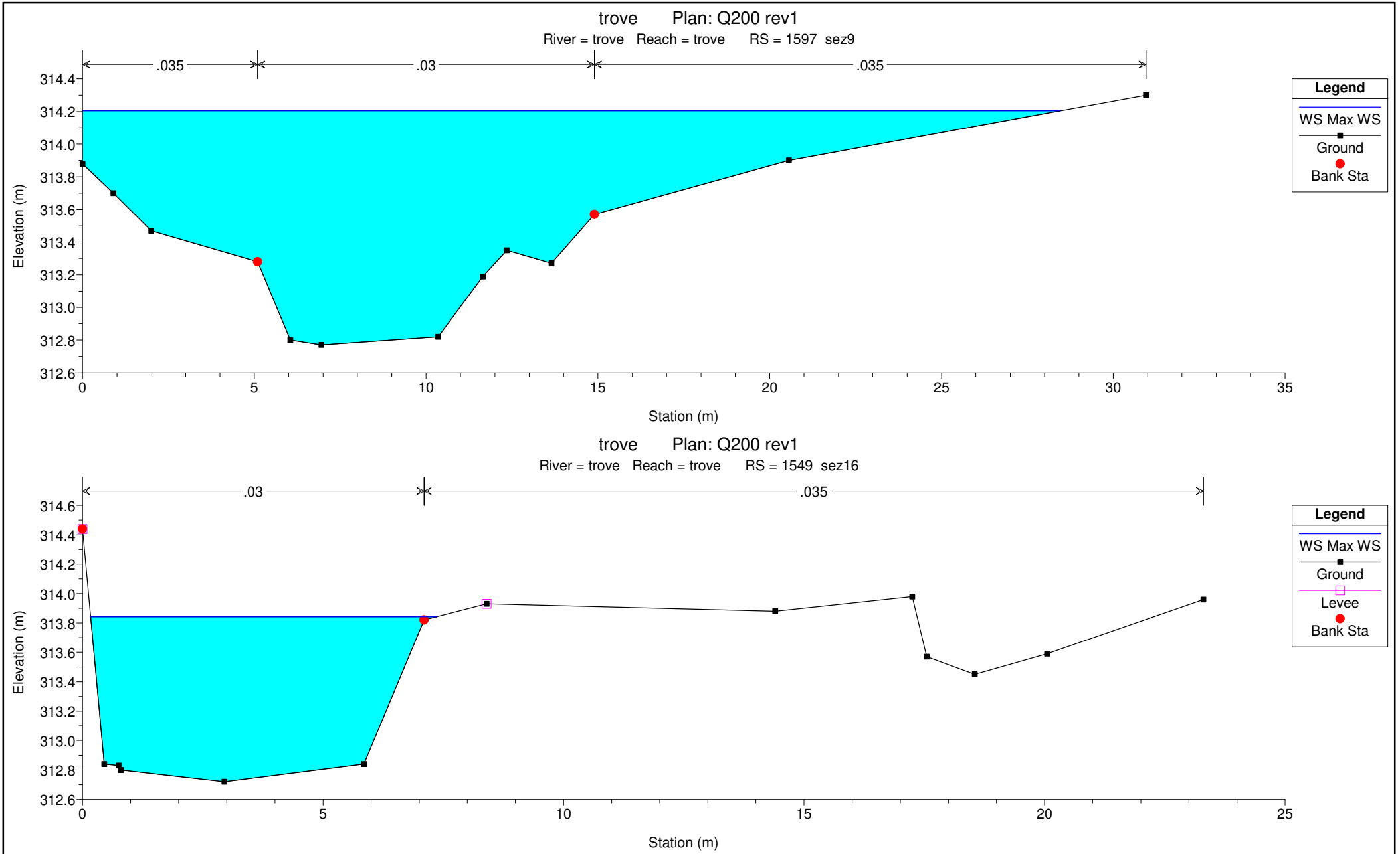
trove Plan: Q200 rev1
River = trove Reach = trove RS = 2269 sez13

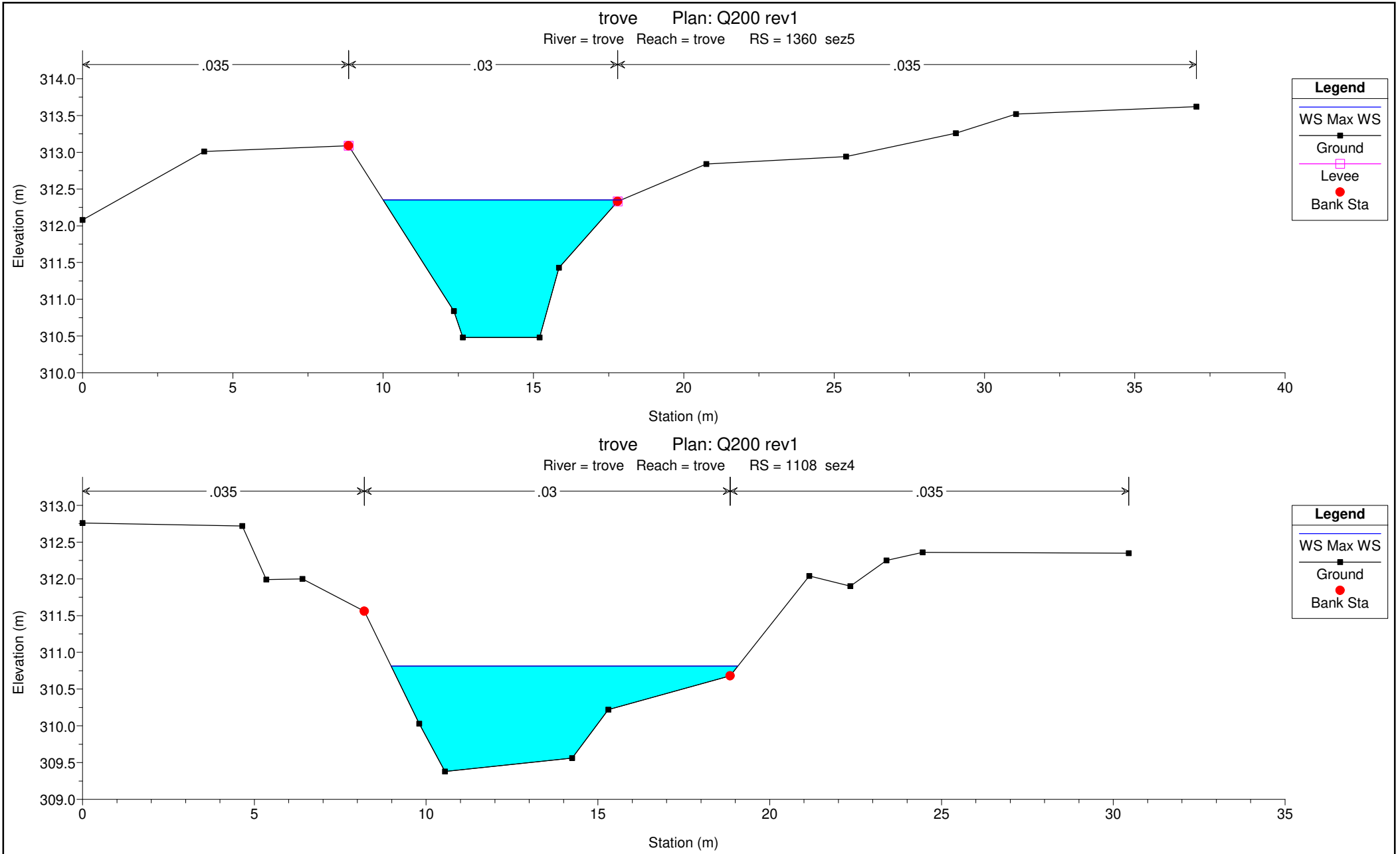


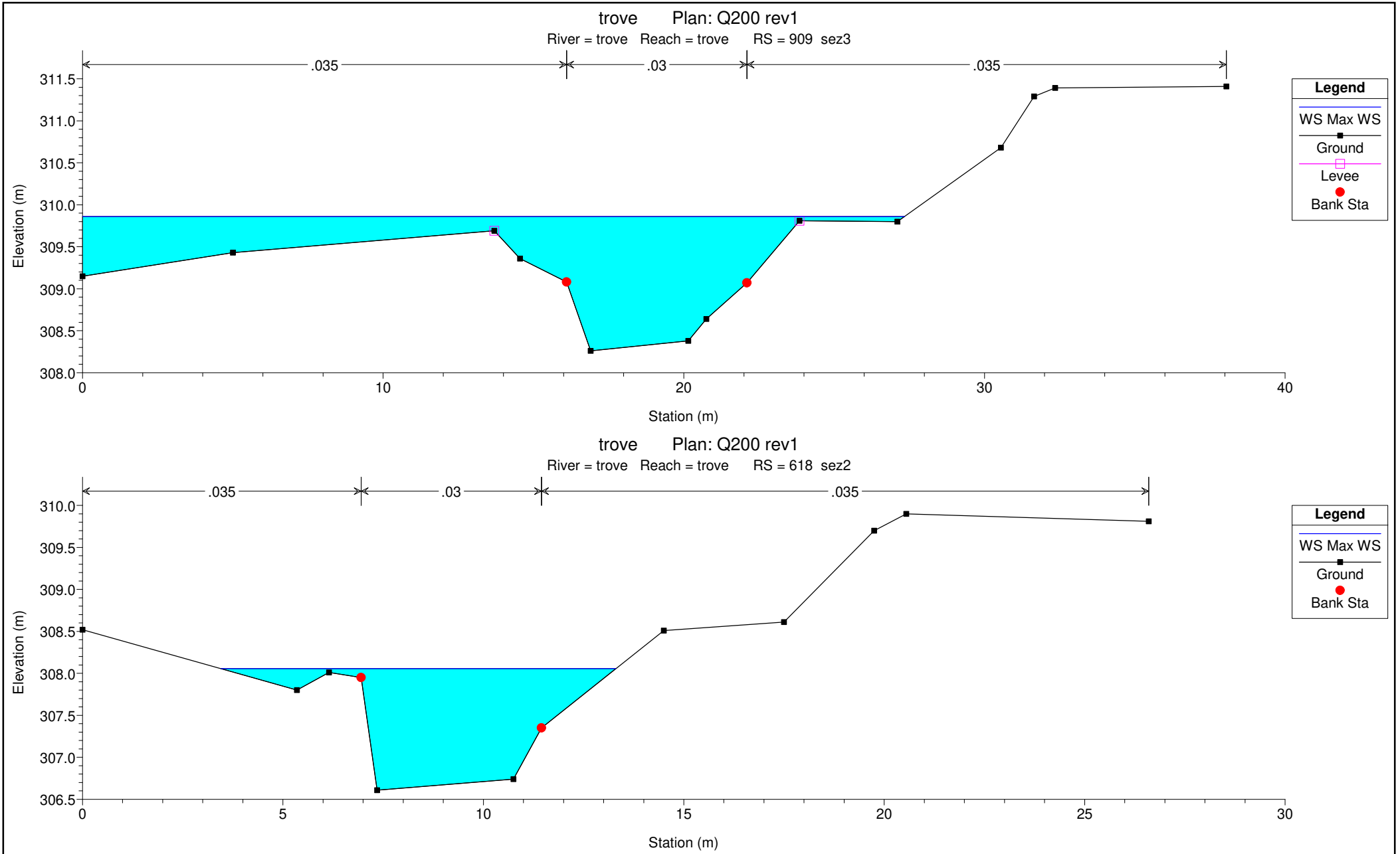
trove Plan: Q200 rev1
River = trove Reach = trove RS = 2194 sez 12



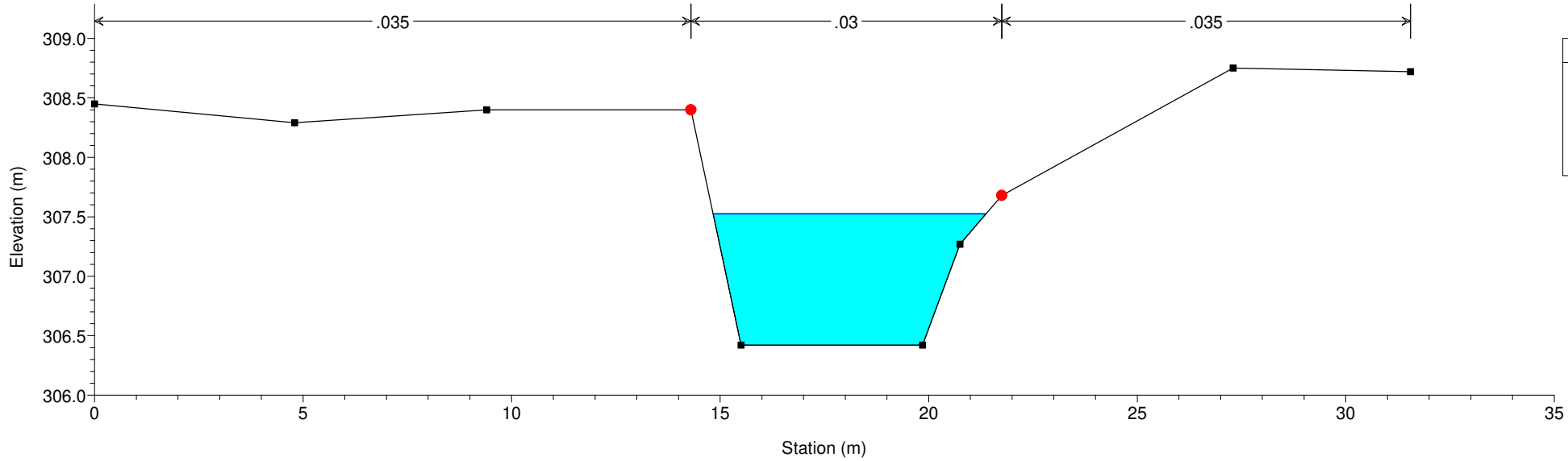








trove Plan: Q200 rev1
River = trove Reach = trove RS = 576 sez1



Legend

- WS Max WS
- Ground
- Bank Sta

HEC-RAS Plan: Q200rev1 River: trove Reach: trove Profile: Max WS

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
trove	2417	Max WS	36.20	316.92	318.17	318.54	319.31	0.023833	4.93	8.47	12.98	1.60
trove	2400		Lat Struct									
trove	2399		Lat Struct									
trove	2350	Max WS	36.20	316.34	317.77	317.80	318.29	0.010947	3.21	11.31	12.58	1.04
trove	2269	Max WS	36.20	315.68	317.17	317.63	318.57	0.035370	5.27	7.13	12.48	1.80
trove	2194	Max WS	36.20	315.25	316.63	316.88	317.49	0.018596	4.11	8.80	9.22	1.34
trove	1922	Max WS	36.20	313.70	315.43	315.45	316.09	0.010441	3.61	10.02	7.93	1.03
trove	1747	Max WS	36.20	313.35	314.69	314.97	315.54	0.016932	4.08	8.87	8.79	1.28
trove	1597	Max WS	36.20	312.77	314.20		314.45	0.004357	2.42	19.01	28.46	0.71
trove	1549	Max WS	36.19	312.72	313.84	314.27	315.40	0.036235	5.53	6.55	7.20	1.82
trove	1360	Max WS	36.88	310.48	312.35	312.57	313.23	0.016032	4.15	8.89	7.93	1.24
trove	1108	Max WS	37.00	309.38	310.81	311.10	311.81	0.024196	4.42	8.39	10.09	1.53
trove	909	Max WS	36.59	308.26	309.86	309.96	310.30	0.007288	3.31	15.82	27.34	0.91
trove	618	Max WS	36.99	306.61	308.06	308.70	309.86	0.033616	6.10	6.79	9.85	1.73
trove	576	Max WS	36.99	306.42	307.52	308.16	309.55	0.050080	6.30	5.87	6.54	2.13

HEC-RAS Plan: Q200rev1 River: trove Reach: trove Profile: Max WS

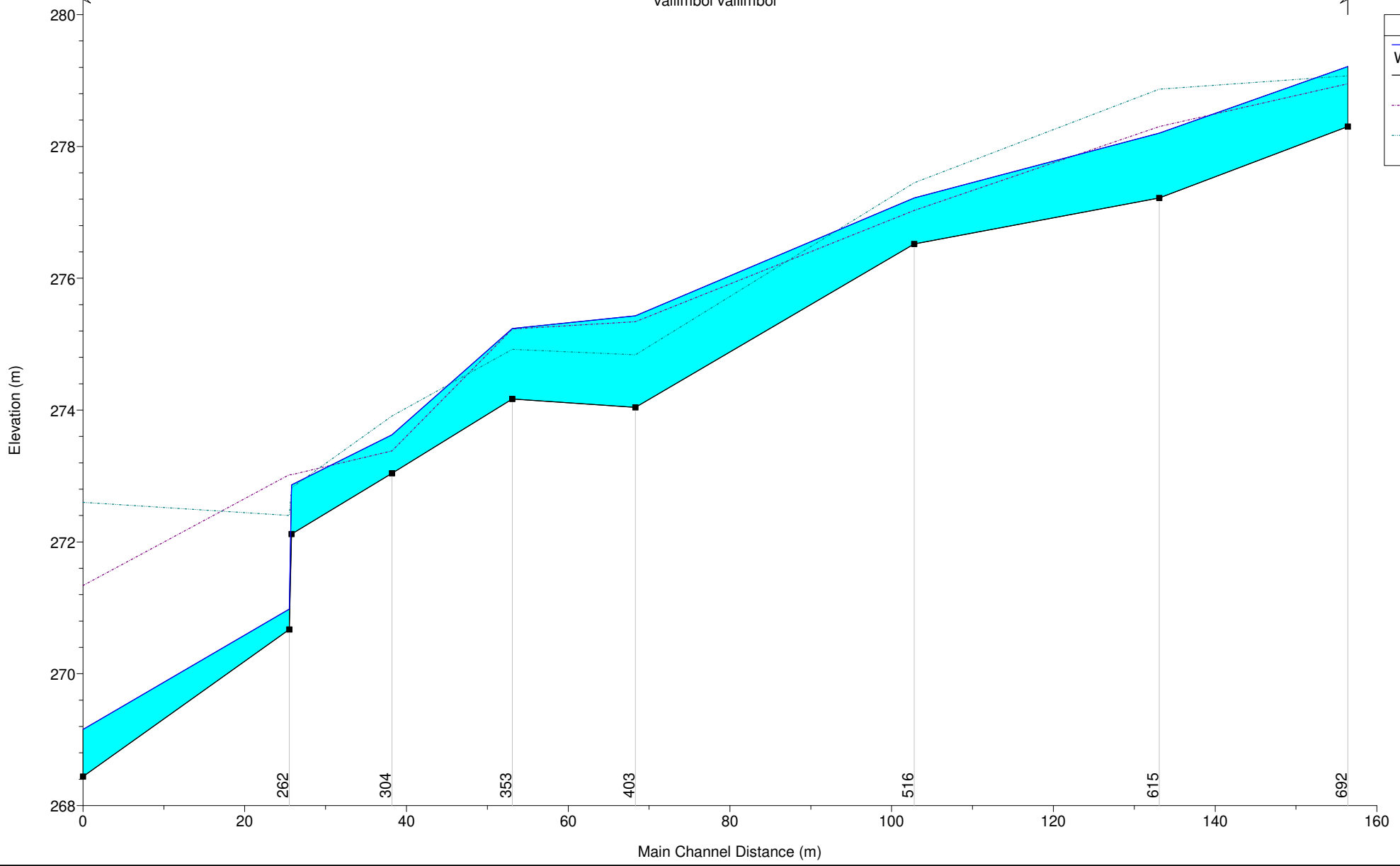
Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Vel Head (m)	Frctn Loss (m)	C & E Loss (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Top Width (m)
trove	2417	Max WS	319.31	318.17	1.14	0.41		3.28	32.63	0.29	12.98
trove	2400		Lat Struct								
trove	2399		Lat Struct								
trove	2350	Max WS	318.29	317.77	0.52	0.60		0.01	36.19		12.58
trove	2269	Max WS	318.57	317.17	1.41	0.54		0.25	35.92	0.03	12.48
trove	2194	Max WS	317.49	316.63	0.86	1.21			36.20		9.22
trove	1922	Max WS	316.09	315.43	0.67	0.74			36.20		7.93
trove	1747	Max WS	315.54	314.69	0.85	0.49			36.20	0.00	8.79
trove	1597	Max WS	314.45	314.20	0.25	0.37		5.19	27.86	3.14	28.46
trove	1549	Max WS	315.40	313.84	1.56	1.51			36.19	0.00	7.20
trove	1360	Max WS	313.23	312.35	0.88	1.54			36.88	0.00	7.93
trove	1108	Max WS	311.81	310.81	0.99	0.95			36.99	0.01	10.09
trove	909	Max WS	310.30	309.86	0.43	1.81		8.94	26.95	0.70	27.34
trove	618	Max WS	309.86	308.06	1.80	0.53		0.54	34.82	1.63	9.85
trove	576	Max WS	309.55	307.52	2.03				36.99		6.54

OUTPUT HEC-RAS
TR200

FOSSO VALLIMBOI

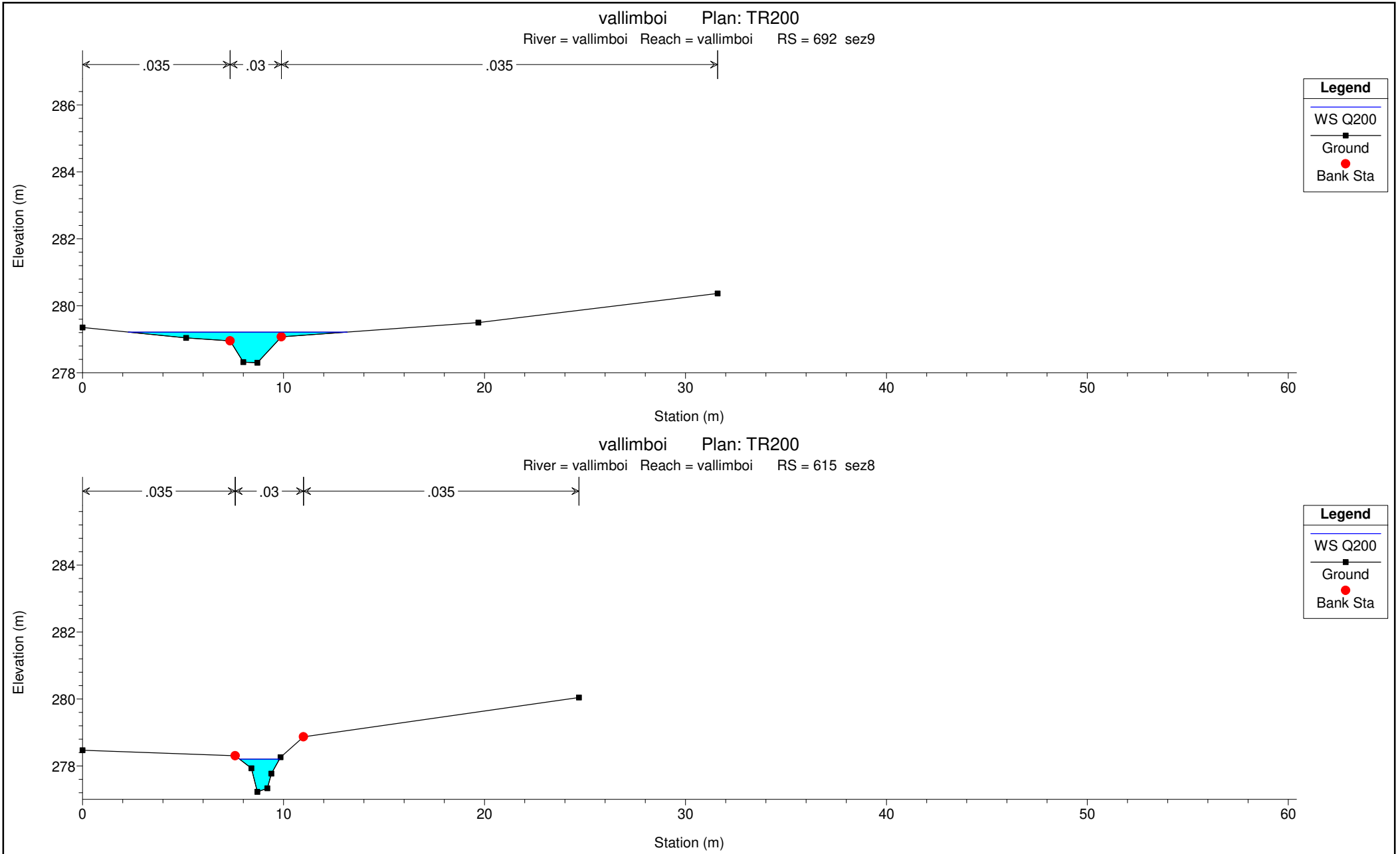
vallimboi Plan: TR200

vallimboi vallimboi



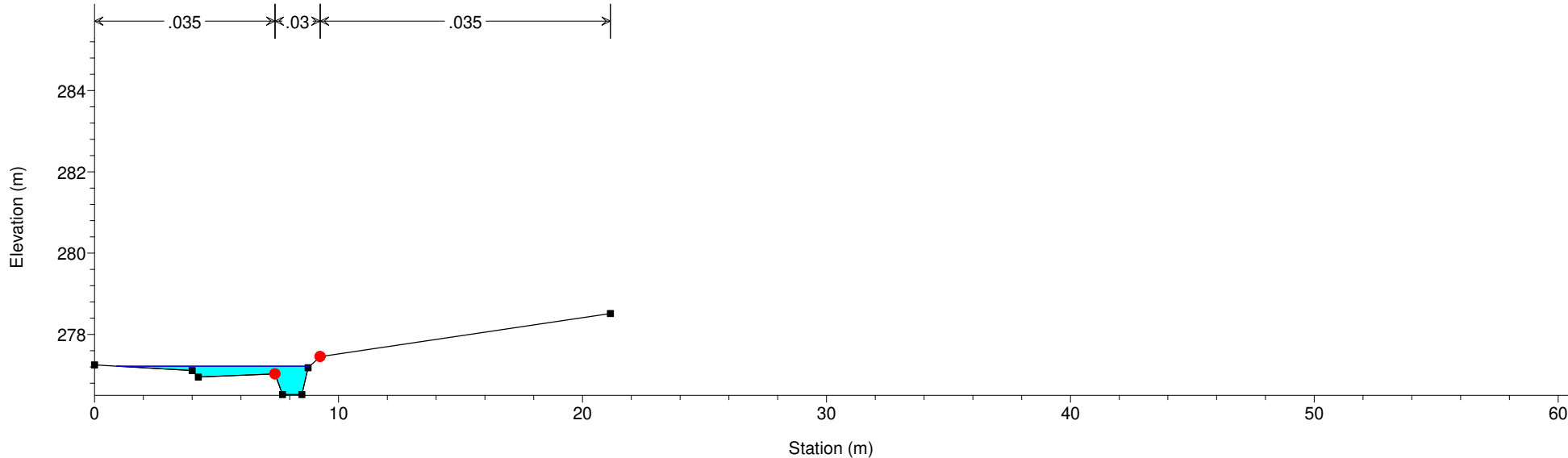
Legend

- WS Q200
- Ground
- LOB
- ROB



1 cm Horiz. = 2.5 m 1 cm Vert. = 1.5 m

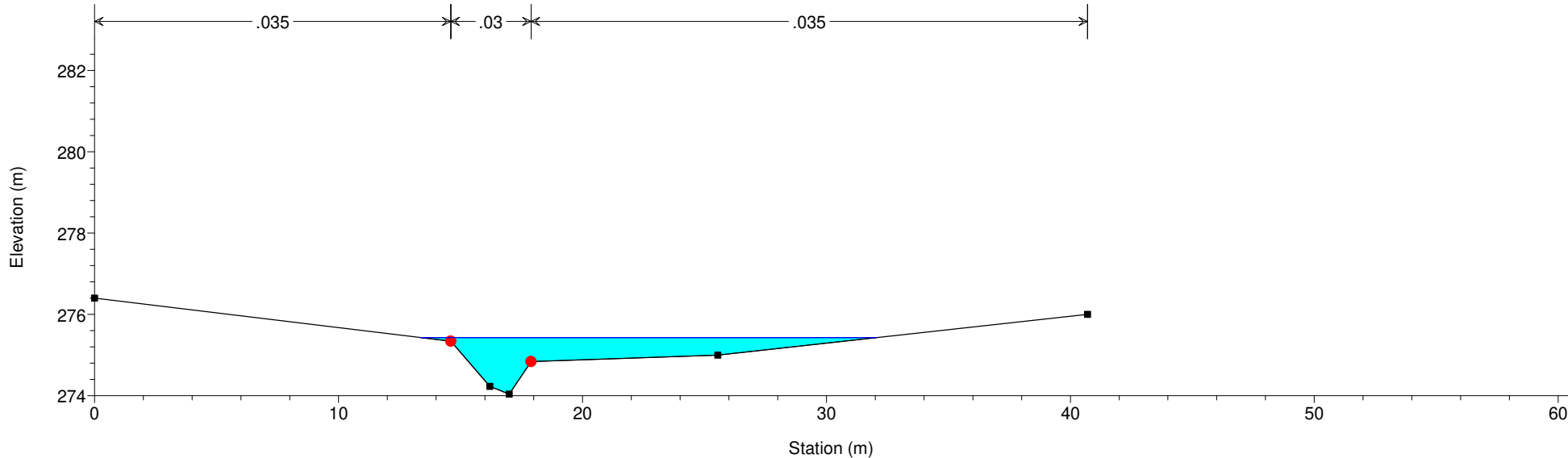
vallimboi Plan: TR200
 River = vallimboi Reach = vallimboi RS = 516 sez7



Legend

- WS Q200
- Ground
- Bank Sta

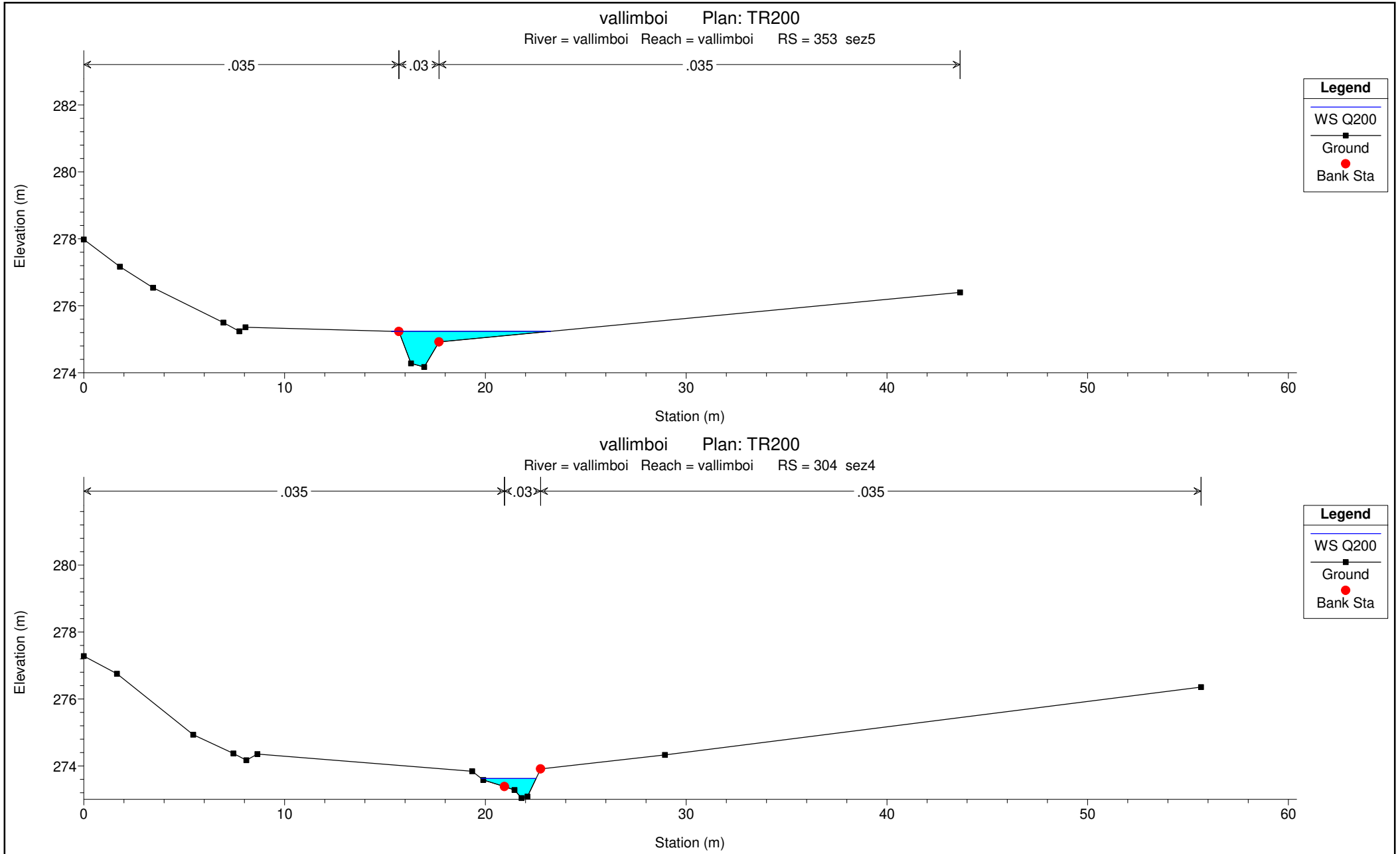
vallimboi Plan: TR200
 River = vallimboi Reach = vallimboi RS = 403 sez 6



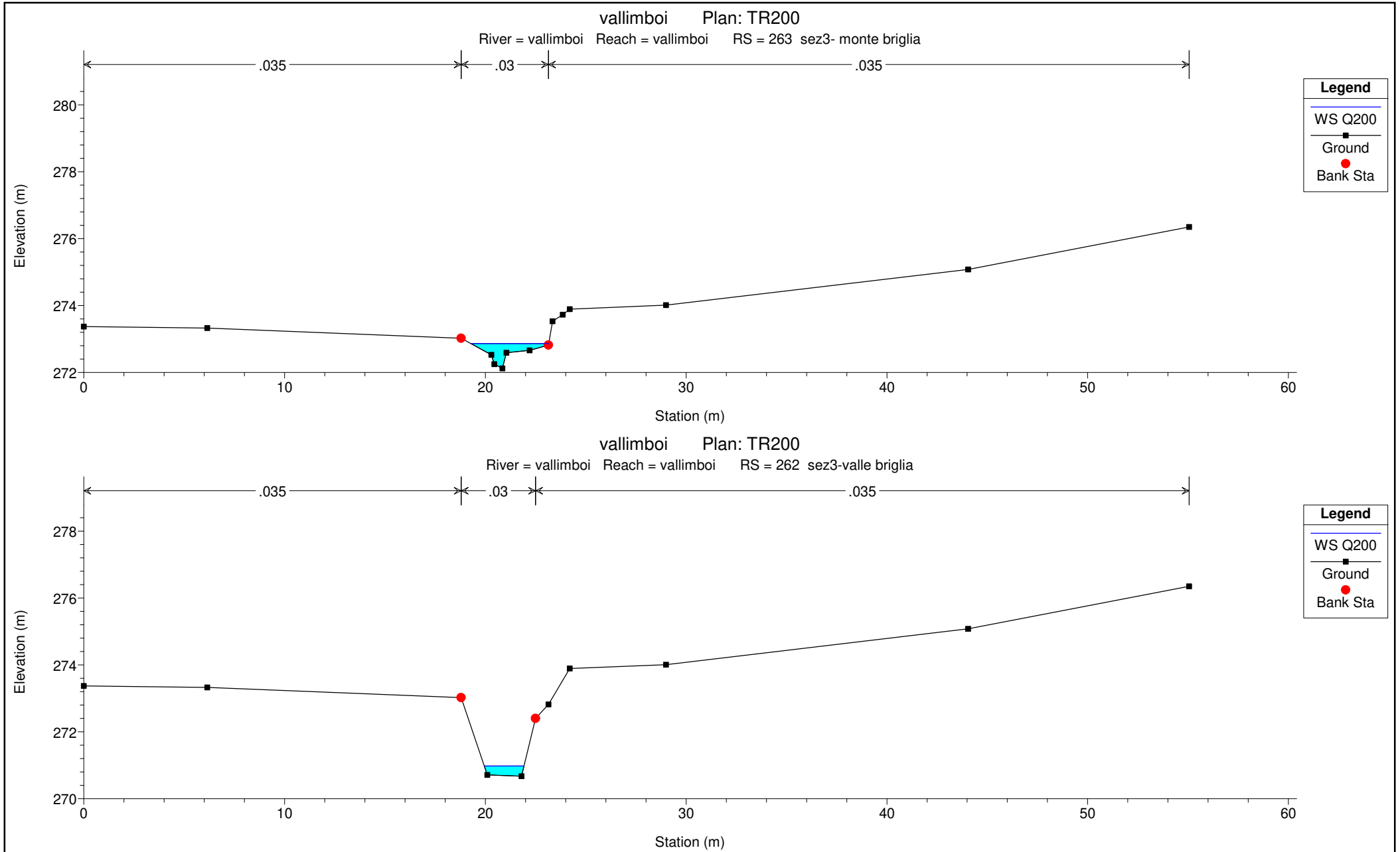
Legend

- WS Q200
- Ground
- Bank Sta

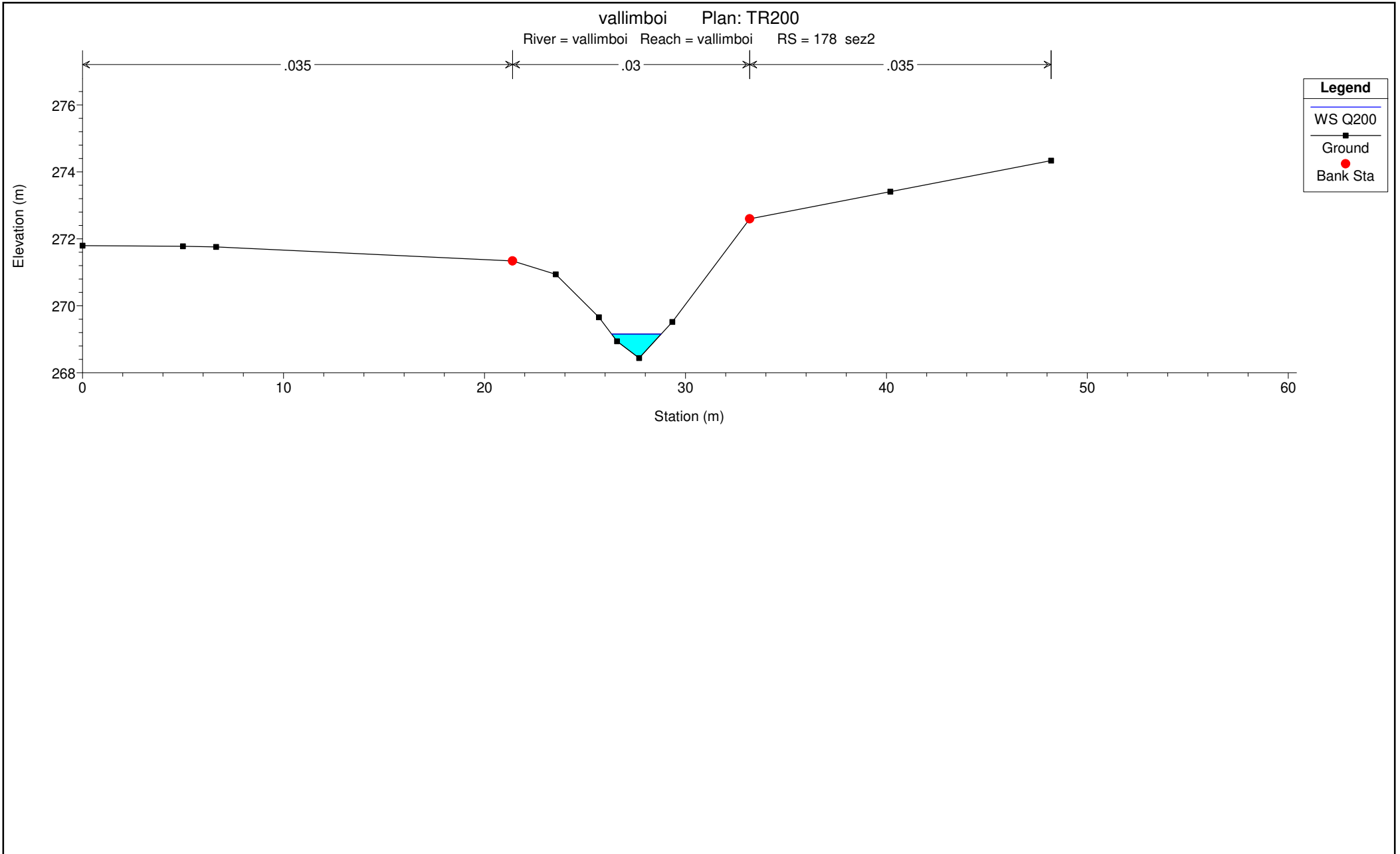
1 cm Horiz. = 2.5 m 1 cm Vert. = 1.5 m



1 cm Horiz. = 2.5 m 1 cm Vert. = 1.5 m



1 cm Horiz. = 2.5 m 1 cm Vert. = 1.5 m



1 cm Horiz. = 2.5 m 1 cm Vert. = 1.5 m

HEC-RAS Plan: TR200 River: vallimboi Reach: vallimboi Profile: Q200

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
vallimboi	692	Q200	3.60	278.30	279.21	279.21	279.36	0.006936	1.84	2.60	10.89	0.73
vallimboi	615	Q200	3.60	277.22	278.20	278.52	278.94	0.060898	3.81	0.94	1.98	1.76
vallimboi	516	Q200	3.60	276.52	277.22	277.32	277.54	0.030793	2.96	1.72	7.91	1.27
vallimboi	403	Q200	3.60	274.04	275.43	275.05	275.44	0.000508	0.62	8.31	18.69	0.21
vallimboi	353	Q200	3.60	274.17	275.24	275.24	275.41	0.008657	1.99	2.34	7.92	0.74
vallimboi	304	Q200	3.60	273.04	273.63	274.02	274.97	0.124002	5.36	0.75	2.72	2.79
vallimboi	263	Q200	3.60	272.12	272.86	273.06	273.51	0.082979	3.57	1.01	3.88	2.24
vallimboi	262	Q200	3.60	270.67	270.98	271.40	273.30	0.295668	6.75	0.53	1.98	4.15
vallimboi	178	Q200	3.60	268.44	269.15	269.39	269.92	0.060211	3.87	0.93	2.46	2.01

HEC-RAS Plan: TR200 River: vallimboi Reach: vallimboi Profile: Q200

Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Vel Head (m)	Frctn Loss (m)	C & E Loss (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Top Width (m)
vallimboi	692	Q200	279.36	279.21	0.15	0.36	0.06	0.48	3.03	0.10	10.89
vallimboi	615	Q200	278.94	278.20	0.74	1.27	0.13		3.60		1.98
vallimboi	516	Q200	277.54	277.22	0.32	0.05	0.03	1.28	2.32		7.91
vallimboi	403	Q200	275.44	275.43	0.01	0.02	0.02	0.00	1.83	1.77	18.69
vallimboi	353	Q200	275.41	275.24	0.17	0.32	0.12	0.00	2.92	0.68	7.92
vallimboi	304	Q200	274.97	273.63	1.34	1.25	0.21	0.40	3.20		2.72
vallimboi	263	Q200	273.51	272.86	0.65	0.04	0.17		3.60	0.00	3.88
vallimboi	262	Q200	273.30	270.98	2.32	2.92	0.47		3.60		1.98
vallimboi	178	Q200	269.92	269.15	0.76				3.60		2.46