

COMUNE DI VALLEDORIA

Provincia di Sassari



PIANO URBANISTICO COMUNALE



GRUPPO DI LAVORO

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TAVOLA

RI_04.2

Assetto idraulico

Tabelle e sezioni di calcolo: Riu di Preadu,
Asta 75526, Riu Santina, Asta 143245

Data
Ottobre 2016

Rev.2
Aprile 2023

Scala
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HEC-RAS Plan: Art_8_comma 2 River: Riu di Preadu Reach: Preadu

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
Preadu	1536.43	Tr 50	48.76	111.88	112.85	112.85	113.27	0.017610	2.76	17.08	20.59	1.19
Preadu	1536.43	Tr 100	60.19	111.88	112.99	112.99	113.45	0.017007	2.95	20.06	22.00	1.19
Preadu	1536.43	Tr 200	71.98	111.88	113.12	113.12	113.62	0.016562	3.13	22.99	23.31	1.20
Preadu	1536.43	Tr 500	88.02	111.88	113.28	113.28	113.83	0.015960	3.31	26.89	24.97	1.20
Preadu	1486.9	Tr 50	48.76	110.10	111.02		111.24	0.007579	2.56	26.08	34.84	0.86
Preadu	1486.9	Tr 100	60.19	110.10	111.09		111.37	0.008685	2.89	28.75	35.82	0.93
Preadu	1486.9	Tr 200	71.98	110.10	111.16	111.08	111.50	0.009843	3.22	31.14	36.68	1.00
Preadu	1486.9	Tr 500	88.02	110.10	111.23	111.20	111.66	0.011529	3.64	33.87	37.64	1.09
Preadu	1437.37	Tr 50	48.76	110.10	110.91		110.97	0.002774	1.43	47.33	63.87	0.51
Preadu	1437.37	Tr 100	60.19	110.10	111.00		111.07	0.003041	1.60	52.62	64.98	0.54
Preadu	1437.37	Tr 200	71.98	110.10	111.07		111.16	0.003278	1.76	57.60	65.87	0.57
Preadu	1437.37	Tr 500	88.02	110.10	111.16		111.27	0.003570	1.95	63.77	66.94	0.60
Preadu	1387.84	Tr 50	48.76	110.10	110.80		110.84	0.002298	1.18	57.00	85.33	0.45
Preadu	1387.84	Tr 100	60.19	110.10	110.88		110.93	0.002481	1.32	63.38	85.87	0.48
Preadu	1387.84	Tr 200	71.98	110.10	110.95		111.01	0.002644	1.44	69.41	86.38	0.50
Preadu	1387.84	Tr 500	88.02	110.10	111.03		111.10	0.002846	1.59	76.83	87.00	0.53
Preadu	1338.31	Tr 50	48.76	110.10	110.61		110.67	0.005662	1.50	45.09	92.85	0.67
Preadu	1338.31	Tr 100	60.19	110.10	110.66		110.74	0.006055	1.66	50.27	93.43	0.71
Preadu	1338.31	Tr 200	71.98	110.10	110.72		110.81	0.006341	1.81	55.33	93.96	0.73
Preadu	1338.31	Tr 500	88.02	110.10	110.78		110.89	0.006802	2.00	61.28	94.49	0.77
Preadu	1288.78	Tr 50	48.76	109.90	109.99	109.99	110.14	0.025868	0.74	28.57	97.84	0.99
Preadu	1288.78	Tr 100	60.19	109.90	110.04	110.04	110.20	0.024442	1.10	33.81	108.71	1.07
Preadu	1288.78	Tr 200	71.98	109.90	110.09	110.09	110.26	0.022384	1.37	39.76	119.87	1.10
Preadu	1288.78	Tr 500	88.02	109.90	110.14	110.14	110.34	0.021539	1.64	46.52	123.74	1.13
Preadu	1239.25	Tr 50	48.76	107.81	108.32	108.32	108.53	0.022258	2.56	24.75	62.28	1.28
Preadu	1239.25	Tr 100	60.19	107.81	108.39	108.39	108.63	0.020841	2.75	29.27	65.88	1.27
Preadu	1239.25	Tr 200	71.98	107.81	108.46	108.46	108.72	0.019899	2.93	33.68	69.21	1.27
Preadu	1239.25	Tr 500	88.02	107.81	108.54	108.54	108.82	0.019107	3.15	39.35	73.27	1.27
Preadu	1189.72	Tr 50	48.76	102.72	103.39	103.39	103.69	0.021202	2.79	20.31	35.26	1.28
Preadu	1189.72	Tr 100	60.19	102.72	103.48	103.48	103.82	0.020125	3.08	23.84	37.11	1.29
Preadu	1189.72	Tr 200	71.98	102.72	103.58	103.58	103.95	0.019185	3.32	27.36	38.78	1.29
Preadu	1189.72	Tr 500	88.02	102.72	103.69	103.69	104.11	0.018436	3.60	31.85	40.79	1.30
Preadu	1140.19	Tr 50	48.76	100.20	101.44		101.53	0.002735	1.57	37.26	36.92	0.51
Preadu	1140.19	Tr 100	60.19	100.20	101.56		101.67	0.002924	1.76	41.86	38.25	0.54
Preadu	1140.19	Tr 200	71.98	100.20	101.67		101.81	0.003096	1.94	46.26	39.48	0.57
Preadu	1140.19	Tr 500	88.02	100.20	101.81		101.97	0.003291	2.15	51.88	40.92	0.60
Preadu	1090.66	Tr 50	48.76	100.20	101.21		101.36	0.004327	2.08	32.52	39.37	0.66
Preadu	1090.66	Tr 100	60.19	100.20	101.31		101.48	0.004717	2.30	36.42	40.57	0.70
Preadu	1090.66	Tr 200	71.98	100.20	101.40		101.60	0.005083	2.52	40.10	41.67	0.73
Preadu	1090.66	Tr 500	88.02	100.20	101.51		101.76	0.005539	2.78	44.69	43.01	0.78
Preadu	1067.5	Tr 50	48.76	100.20	101.10		101.24	0.005417	2.09	31.86	43.31	0.72
Preadu	1067.5	Tr 100	60.19	100.20	101.19		101.36	0.005849	2.31	35.75	44.48	0.76
Preadu	1067.5	Tr 200	71.98	100.20	101.27		101.47	0.006277	2.53	39.36	45.55	0.79
Preadu	1067.5	Tr 500	88.02	100.20	101.37		101.61	0.006860	2.80	43.75	46.82	0.84
Preadu	1041.13	Tr 50	48.76	100.20	100.75	100.75	100.99	0.018262	2.83	23.84	49.46	1.22
Preadu	1041.13	Tr 100	60.19	100.20	100.82	100.82	101.10	0.017666	3.03	27.66	51.00	1.23
Preadu	1041.13	Tr 200	71.98	100.20	100.90	100.90	101.21	0.017037	3.21	31.46	52.36	1.23
Preadu	1041.13	Tr 500	88.02	100.20	100.99	100.99	101.34	0.016170	3.40	36.54	54.13	1.22
Preadu	1017.37	Tr 50	48.76	99.75	100.28	100.28	100.49	0.018146	2.74	26.27	62.67	1.21
Preadu	1017.37	Tr 100	60.19	99.75	100.34	100.34	100.58	0.017640	2.92	30.48	64.58	1.21
Preadu	1017.37	Tr 200	71.98	99.75	100.41	100.41	100.67	0.016918	3.07	34.80	66.43	1.21
Preadu	1017.37	Tr 500	88.02	99.75	100.48	100.48	100.78	0.016648	3.28	40.00	68.58	1.22
Preadu	991.6	Tr 50	48.76	97.95	98.60	98.60	98.83	0.015150	2.85	26.49	58.89	1.14
Preadu	991.6	Tr 100	60.19	97.95	98.67	98.67	98.93	0.014801	3.03	31.03	62.15	1.15
Preadu	991.6	Tr 200	71.98	97.95	98.75	98.75	99.02	0.014211	3.17	35.76	65.22	1.14
Preadu	991.6	Tr 500	88.02	97.95	98.83	98.83	99.14	0.014126	3.38	41.36	68.60	1.16
Preadu	967.26	Tr 50	48.76	95.85	98.58		98.59	0.000102	0.60	142.68	92.32	0.12
Preadu	967.26	Tr 100	60.19	95.85	98.69		98.70	0.000131	0.70	152.88	95.77	0.13
Preadu	967.26	Tr 200	71.98	95.85	98.80		98.81	0.000158	0.79	163.31	99.18	0.15
Preadu	967.26	Tr 500	88.02	95.85	98.93		98.95	0.000193	0.90	176.71	103.54	0.17
Preadu	942.07	Tr 50	48.76	96.08	98.58		98.59	0.000145	0.68	133.38	90.97	0.14
Preadu	942.07	Tr 100	60.19	96.08	98.68		98.70	0.000183	0.78	143.36	94.22	0.16
Preadu	942.07	Tr 200	71.98	96.08	98.79		98.81	0.000218	0.88	153.56	97.58	0.17
Preadu	942.07	Tr 500	88.02	96.08	98.92		98.94	0.000264	1.00	166.66	101.74	0.19
Preadu	920.53	Tr 50	48.76	97.69	98.34	98.32	98.55	0.018456	2.86	25.02	54.00	1.23

HEC-RAS Plan: Art_8_comma 2 River: Riu di Preadu Reach: Preadu (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
Preadu	920.53	Tr 100	60.19	97.69	98.45	98.40	98.66	0.014971	2.91	31.29	58.76	1.14
Preadu	920.53	Tr 200	71.98	97.69	98.57	98.47	98.77	0.011922	2.90	38.61	63.84	1.05
Preadu	920.53	Tr 500	88.02	97.69	98.70	98.56	98.91	0.009907	2.94	47.60	69.11	0.98
Preadu	892.54	Tr 50	48.76	96.90	97.81	97.81	98.14	0.011287	3.11	22.17	34.11	1.04
Preadu	892.54	Tr 100	60.19	96.90	97.92	97.92	98.29	0.010821	3.30	26.21	36.28	1.04
Preadu	892.54	Tr 200	71.98	96.90	98.02	98.02	98.43	0.010867	3.51	29.81	38.11	1.06
Preadu	892.54	Tr 500	88.02	96.90	98.16	98.16	98.60	0.010087	3.66	35.44	40.57	1.04
Preadu	868.03	Tr 50	48.76	90.30	91.95	91.95	92.44	0.010552	3.10	15.76	16.92	1.01
Preadu	868.03	Tr 100	60.19	90.30	92.12	92.12	92.66	0.009790	3.27	18.61	18.27	0.99
Preadu	868.03	Tr 200	71.98	90.30	92.26	92.26	92.86	0.009220	3.44	21.36	19.39	0.98
Preadu	868.03	Tr 500	88.02	90.30	92.44	92.44	93.12	0.008650	3.65	25.03	20.80	0.97
Preadu	843.01	Tr 50	48.76	90.30	91.21	91.21	91.59	0.011806	3.20	20.42	28.69	1.07
Preadu	843.01	Tr 100	60.19	90.30	91.34	91.34	91.75	0.011346	3.41	24.02	30.32	1.07
Preadu	843.01	Tr 200	71.98	90.30	91.45	91.45	91.91	0.010956	3.59	27.61	31.86	1.07
Preadu	843.01	Tr 500	88.02	90.30	91.60	91.60	92.10	0.010410	3.80	32.46	33.76	1.06
Preadu	817.47	Tr 50	48.76	89.86	90.54	90.54	90.81	0.018278	3.16	22.83	42.92	1.25
Preadu	817.47	Tr 100	60.19	89.86	90.63	90.63	90.93	0.017587	3.37	26.62	44.47	1.26
Preadu	817.47	Tr 200	71.98	89.86	90.70	90.70	91.04	0.017317	3.58	30.18	45.84	1.27
Preadu	817.47	Tr 500	88.02	89.86	90.81	90.81	91.18	0.016578	3.80	35.07	47.61	1.27
Preadu	793.48	Tr 50	48.76	87.90	88.80	88.80	89.15	0.012050	3.20	21.55	32.63	1.08
Preadu	793.48	Tr 100	60.19	87.90	88.92	88.92	89.31	0.011543	3.40	25.52	34.93	1.08
Preadu	793.48	Tr 200	71.98	87.90	89.02	89.02	89.45	0.011378	3.60	29.25	36.97	1.08
Preadu	793.48	Tr 500	88.02	87.90	89.17	89.17	89.62	0.010419	3.75	34.97	39.59	1.06
Preadu	771.61	Tr 50	48.76	81.75	83.12	83.12	83.54	0.009231	2.93	18.26	24.92	0.95
Preadu	771.61	Tr 100	60.19	81.75	83.26	83.26	83.72	0.008515	3.09	22.03	27.37	0.93
Preadu	771.61	Tr 200	71.98	81.75	83.39	83.39	83.89	0.008098	3.24	25.71	29.23	0.93
Preadu	771.61	Tr 500	88.02	81.75	83.56	83.56	84.09	0.007560	3.40	30.75	31.39	0.91
Preadu	743.95	Tr 50	48.76	74.70	75.74	75.74	76.15	0.010104	2.84	17.78	24.09	0.98
Preadu	743.95	Tr 100	60.19	74.70	75.88	75.88	76.33	0.009371	3.01	21.10	25.77	0.96
Preadu	743.95	Tr 200	71.98	74.70	76.00	76.00	76.50	0.008888	3.17	24.37	27.11	0.96
Preadu	743.95	Tr 500	88.02	74.70	76.15	76.15	76.70	0.008440	3.36	28.63	28.71	0.95
Preadu	721.35	Tr 50	48.76	70.20	71.19	71.19	71.57	0.010643	3.19	20.47	27.47	1.03
Preadu	721.35	Tr 100	60.19	70.20	71.31	71.31	71.74	0.010436	3.41	23.85	28.58	1.04
Preadu	721.35	Tr 200	71.98	70.20	71.42	71.42	71.90	0.010234	3.61	27.20	29.63	1.04
Preadu	721.35	Tr 500	88.02	70.20	71.57	71.57	72.10	0.009995	3.84	31.57	30.95	1.05
Preadu	694.42	Tr 50	48.76	70.20	70.78		70.86	0.005981	1.68	39.56	71.08	0.70
Preadu	694.42	Tr 100	60.19	70.20	70.86		70.95	0.005999	1.83	45.03	71.76	0.72
Preadu	694.42	Tr 200	71.98	70.20	70.92		71.04	0.006164	1.98	49.89	72.35	0.74
Preadu	694.42	Tr 500	88.02	70.20	71.01		71.15	0.006288	2.15	56.20	73.10	0.76
Preadu	665.83	Tr 50	48.76	69.90	70.37	70.37	70.57	0.019682	2.63	26.29	65.41	1.23
Preadu	665.83	Tr 100	60.19	69.90	70.43	70.43	70.66	0.019144	2.82	30.32	66.32	1.24
Preadu	665.83	Tr 200	71.98	69.90	70.49	70.49	70.74	0.018430	2.98	34.38	67.23	1.24
Preadu	665.83	Tr 500	88.02	69.90	70.56	70.56	70.85	0.017798	3.17	39.47	68.11	1.24
Preadu	644.89	Tr 50	48.76	68.70	69.36	69.36	69.61	0.015213	2.91	24.56	48.70	1.15
Preadu	644.89	Tr 100	60.19	68.70	69.44	69.44	69.73	0.014994	3.12	28.55	50.95	1.16
Preadu	644.89	Tr 200	71.98	68.70	69.52	69.52	69.83	0.014612	3.30	32.63	53.15	1.17
Preadu	644.89	Tr 500	88.02	68.70	69.62	69.62	69.96	0.014143	3.50	38.02	55.91	1.17
Preadu	612.98	Tr 50	48.76	63.00	64.23	64.23	64.62	0.009941	2.80	18.17	25.48	0.97
Preadu	612.98	Tr 100	60.19	63.00	64.35	64.35	64.79	0.009403	2.98	21.47	27.15	0.96
Preadu	612.98	Tr 200	71.98	63.00	64.48	64.48	64.96	0.008820	3.13	24.95	28.81	0.95
Preadu	612.98	Tr 500	88.02	63.00	64.63	64.63	65.16	0.008259	3.30	29.52	30.56	0.94
Preadu	583.91	Tr 50	48.76	62.10	63.11		63.21	0.003339	1.81	37.15	42.78	0.58
Preadu	583.91	Tr 100	60.19	62.10	63.21		63.34	0.003549	2.00	41.84	43.88	0.60
Preadu	583.91	Tr 200	71.98	62.10	63.31		63.45	0.003820	2.19	45.98	44.82	0.64
Preadu	583.91	Tr 500	88.02	62.10	63.42		63.60	0.004113	2.42	51.25	45.86	0.67
Preadu	564.96	Tr 50	48.76	62.10	63.09		63.15	0.001875	1.35	52.67	63.81	0.43
Preadu	564.96	Tr 100	60.19	62.10	63.21		63.27	0.001908	1.46	60.19	65.65	0.44
Preadu	564.96	Tr 200	71.98	62.10	63.31		63.38	0.001992	1.58	66.85	67.29	0.46
Preadu	564.96	Tr 500	88.02	62.10	63.44		63.52	0.002093	1.73	75.47	69.99	0.48
Preadu	545.82	Tr 50	48.76	62.10	63.07		63.11	0.001711	1.26	55.73	67.28	0.41
Preadu	545.82	Tr 100	60.19	62.10	63.18		63.23	0.001727	1.37	63.66	68.71	0.42
Preadu	545.82	Tr 200	71.98	62.10	63.28		63.34	0.001798	1.48	70.55	69.94	0.43
Preadu	545.82	Tr 500	88.02	62.10	63.41		63.48	0.001871	1.62	79.40	71.52	0.45
Preadu	496.29	Tr 50	48.76	61.88	63.03		63.05	0.000692	0.89	77.37	75.53	0.27
Preadu	496.29	Tr 100	60.19	61.88	63.15		63.17	0.000751	0.99	86.14	76.48	0.28

HEC-RAS Plan: Art_8_comma 2 River: Riu di Preadu Reach: Preadu (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
Preadu	496.29	Tr 200	71.98	61.88	63.24		63.28	0.000825	1.09	93.62	77.28	0.30
Preadu	496.29	Tr 500	88.02	61.88	63.37		63.41	0.000912	1.21	103.19	78.47	0.32
Preadu	469.26	Tr 50	48.76	61.92	63.01		63.03	0.000733	0.88	76.58	76.72	0.27
Preadu	469.26	Tr 100	60.19	61.92	63.12		63.15	0.000788	0.98	85.35	77.29	0.29
Preadu	469.26	Tr 200	71.98	61.92	63.22		63.25	0.000863	1.08	92.74	77.77	0.30
Preadu	469.26	Tr 500	88.02	61.92	63.34		63.38	0.000948	1.20	102.16	78.53	0.32
Preadu	446.76	Tr 50	48.76	61.80	63.00		63.02	0.000492	0.78	88.28	80.93	0.23
Preadu	446.76	Tr 100	60.19	61.80	63.11		63.14	0.000545	0.88	97.47	81.50	0.24
Preadu	446.76	Tr 200	71.98	61.80	63.21		63.23	0.000610	0.97	105.19	81.97	0.26
Preadu	446.76	Tr 500	88.02	61.80	63.33		63.36	0.000685	1.09	115.03	82.57	0.28
Preadu	423.99	Tr 50	48.76	61.80	62.99		63.01	0.000550	0.82	86.10	83.11	0.24
Preadu	423.99	Tr 100	60.19	61.80	63.10		63.12	0.000601	0.91	95.43	83.55	0.26
Preadu	423.99	Tr 200	71.98	61.80	63.19		63.22	0.000667	1.01	103.19	83.86	0.27
Preadu	423.99	Tr 500	88.02	61.80	63.31		63.34	0.000742	1.12	113.09	84.25	0.29
Preadu	397.23	Tr 50	48.76	61.89	62.97		62.99	0.000625	0.80	82.99	82.48	0.25
Preadu	397.23	Tr 100	60.19	61.89	63.08		63.10	0.000679	0.89	92.13	83.00	0.27
Preadu	397.23	Tr 200	71.98	61.89	63.17		63.20	0.000752	0.99	99.67	83.31	0.28
Preadu	397.23	Tr 500	88.02	61.89	63.29		63.32	0.000834	1.10	109.30	83.70	0.30
Preadu	374.73	Tr 50	48.76	61.80	62.95		62.97	0.000709	0.91	79.38	82.73	0.27
Preadu	374.73	Tr 100	60.19	61.80	63.06		63.09	0.000765	1.01	88.41	83.37	0.29
Preadu	374.73	Tr 200	71.98	61.80	63.15		63.18	0.000846	1.11	95.79	83.83	0.30
Preadu	374.73	Tr 500	88.02	61.80	63.26		63.30	0.000935	1.23	105.28	84.43	0.32
Preadu	347.7	Tr 50	48.76	62.10	62.92		62.95	0.001347	0.94	68.38	90.31	0.35
Preadu	347.7	Tr 100	60.19	62.10	63.03		63.06	0.001330	1.02	78.19	91.35	0.35
Preadu	347.7	Tr 200	71.98	62.10	63.12		63.15	0.001394	1.11	86.08	92.17	0.37
Preadu	347.7	Tr 500	88.02	62.10	63.23		63.27	0.001452	1.22	96.34	93.21	0.38
Preadu	331.13	Tr 50	48.76	61.50	62.66	62.66	62.88	0.009310	2.54	28.45	59.63	0.91
Preadu	331.13	Tr 100	60.19	61.50	62.69	62.69	62.99	0.011795	2.93	30.43	60.27	1.03
Preadu	331.13	Tr 200	71.98	61.50	62.80	62.80	63.08	0.009832	2.90	37.31	63.21	0.96
Preadu	331.13	Tr 500	88.02	61.50	62.88	62.88	63.19	0.009878	3.08	42.70	63.87	0.98
Preadu	311.84	Tr 50	48.76	60.30	61.55	61.55	62.06	0.010620	3.18	15.35	15.06	1.00
Preadu	311.84	Tr 100	60.19	60.30	61.72	61.72	62.29	0.010239	3.34	18.03	15.93	1.00
Preadu	311.84	Tr 200	71.98	60.30	61.88	61.88	62.50	0.009995	3.48	20.69	16.83	1.00
Preadu	311.84	Tr 500	88.02	60.30	62.24	62.14	62.76	0.006779	3.22	28.88	32.26	0.85
Preadu	298.17	Tr 50	48.76	60.00	61.23	61.23	61.81	0.011127	3.79	15.87	14.38	1.09
Preadu	298.17	Tr 100	60.19	60.00	61.42	61.42	62.07	0.010554	4.05	18.54	14.80	1.09
Preadu	298.17	Tr 200	71.98	60.00	61.59	61.59	62.32	0.010122	4.28	21.16	15.19	1.08
Preadu	298.17	Tr 500	88.02	60.00	61.80	61.80	62.63	0.009847	4.59	24.41	15.65	1.09
Preadu	272.98	Tr 50	48.76	58.50	59.96	59.96	60.57	0.010495	3.46	14.07	11.59	1.00
Preadu	272.98	Tr 100	60.19	58.50	60.16	60.16	60.84	0.010146	3.66	16.45	12.07	1.00
Preadu	272.98	Tr 200	71.98	58.50	60.35	60.35	61.10	0.009913	3.83	18.77	12.52	1.00
Preadu	272.98	Tr 500	88.02	58.50	60.59	60.59	61.42	0.009646	4.04	21.80	13.08	1.00
Preadu	248.64	Tr 50	48.76	56.10	57.59	57.59	58.21	0.010486	3.48	14.01	11.42	1.00
Preadu	248.64	Tr 100	60.19	56.10	57.80	57.80	58.48	0.010166	3.67	16.39	11.96	1.00
Preadu	248.64	Tr 200	71.98	56.10	57.99	57.99	58.74	0.009989	3.85	18.69	12.46	1.00
Preadu	248.64	Tr 500	88.02	56.10	58.23	58.23	59.06	0.009626	4.03	21.82	13.10	1.00
Preadu	225.49	Tr 50	48.76	52.95	54.31	54.31	54.91	0.010640	3.43	14.23	11.98	1.00
Preadu	225.49	Tr 100	60.19	52.95	54.50	54.50	55.18	0.010306	3.63	16.58	12.38	1.00
Preadu	225.49	Tr 200	71.98	52.95	54.69	54.69	55.43	0.010037	3.81	18.89	12.77	1.00
Preadu	225.49	Tr 500	88.02	52.95	54.93	54.93	55.74	0.009738	3.99	22.05	13.52	1.00
Preadu	199.11	Tr 50	48.76	49.50	50.94	50.94	51.42	0.009695	3.09	16.19	18.56	0.96
Preadu	199.11	Tr 100	60.19	49.50	51.16	51.16	51.62	0.007576	3.05	21.82	28.90	0.88
Preadu	199.11	Tr 200	71.98	49.50	51.30	51.30	51.79	0.007106	3.18	26.11	30.98	0.86
Preadu	199.11	Tr 500	88.02	49.50	51.46	51.46	51.51	0.000942	1.25	106.56	94.37	0.32
Preadu	175.87	Tr 50	48.76	47.55	49.30	49.05	49.31	0.000067	0.25	173.87	95.87	0.08
Preadu	175.87	Tr 100	60.19	47.55	49.30	49.05	49.31	0.000102	0.31	173.84	95.87	0.10
Preadu	175.87	Tr 200	71.98	47.55	49.30	49.05	49.31	0.000147	0.37	173.80	95.87	0.12
Preadu	175.87	Tr 500	88.02	47.55	49.30	49.05	49.31	0.000219	0.45	173.74	95.86	0.14
Preadu	149.58	Tr 50	48.76	47.80	49.30	49.30	49.30	0.000027	0.19	274.46	166.47	0.05
Preadu	149.58	Tr 100	60.19	47.80	49.30	49.30	49.30	0.000042	0.24	274.46	166.47	0.07
Preadu	149.58	Tr 200	71.98	47.80	49.30	49.30	49.31	0.000060	0.29	274.46	166.47	0.08
Preadu	149.58	Tr 500	88.02	47.80	49.30	49.30	49.31	0.000089	0.35	274.46	166.47	0.10
Preadu	124.42	Tr 50	48.76	47.25	47.85	47.85	47.86	0.000111	0.15	171.65	131.83	0.09
Preadu	124.42	Tr 100	60.19	47.25	47.85	47.85	47.86	0.000169	0.18	171.65	131.83	0.10
Preadu	124.42	Tr 200	71.98	47.25	47.85	47.85	47.86	0.000242	0.22	171.65	131.83	0.13

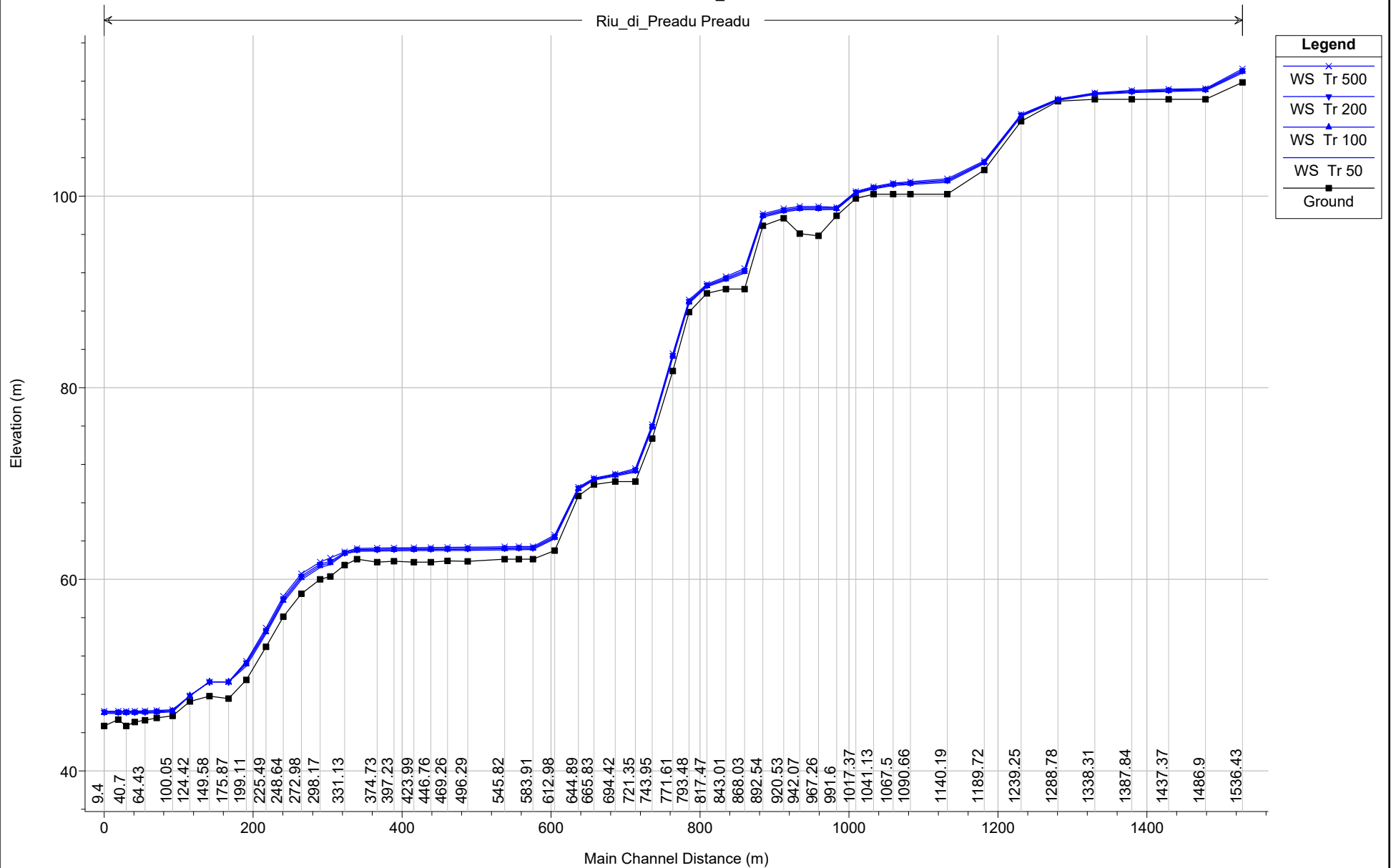
HEC-RAS Plan: Art_8_comma 2 River: Riu_di_Preadu Reach: Preadu (Continued)

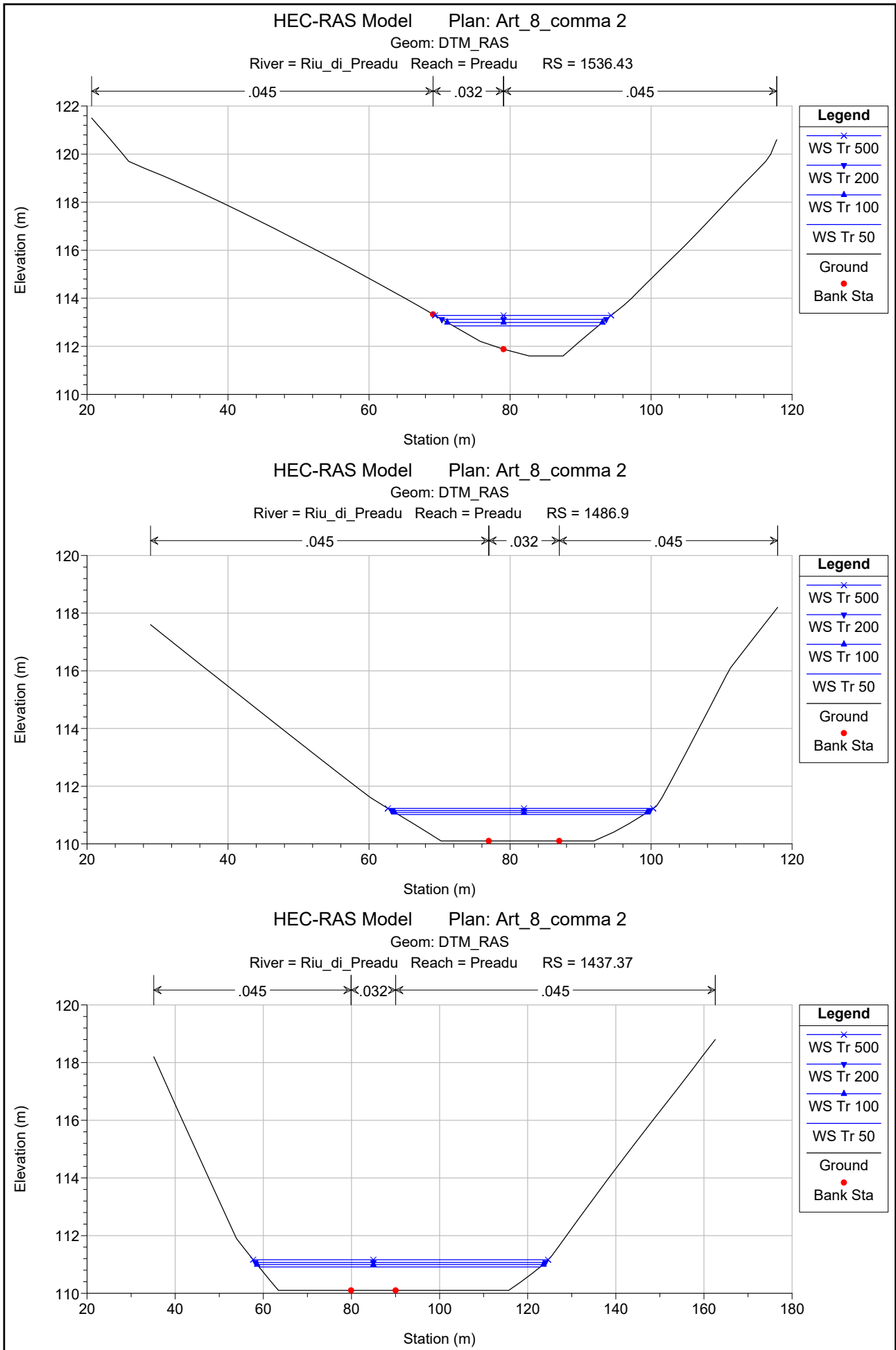
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Preadu	124.42	Tr 500	88.02	47.25	47.85	47.85	47.87	0.000362	0.27	171.65	131.83	0.15
Preadu	100.05	Tr 50	48.76	45.75	46.17		46.23	0.007277	1.24	45.58	118.93	0.70
Preadu	100.05	Tr 100	60.19	45.75	46.24		46.31	0.006609	1.33	53.83	122.97	0.69
Preadu	100.05	Tr 200	71.98	45.75	46.31		46.38	0.005824	1.38	62.94	127.04	0.66
Preadu	100.05	Tr 500	88.02	45.75	46.40		46.47	0.005689	1.52	73.87	136.26	0.67
Preadu	78.82	Tr 50	48.76	45.54	46.08		46.12	0.003823	1.12	55.22	118.27	0.54
Preadu	78.82	Tr 100	60.19	45.54	46.15		46.20	0.003680	1.20	64.37	124.50	0.54
Preadu	78.82	Tr 200	71.98	45.54	46.23		46.28	0.003735	1.32	74.22	131.64	0.55
Preadu	78.82	Tr 500	88.02	45.54	46.32		46.37	0.003488	1.40	85.95	133.85	0.55
Preadu	64.43	Tr 50	48.76	45.30	46.03		46.06	0.002786	1.27	61.95	126.42	0.49
Preadu	64.43	Tr 100	60.19	45.30	46.10		46.15	0.002700	1.34	71.89	129.70	0.49
Preadu	64.43	Tr 200	71.98	45.30	46.18		46.23	0.002578	1.40	82.17	132.98	0.49
Preadu	64.43	Tr 500	88.02	45.30	46.27		46.32	0.002512	1.48	94.38	135.54	0.49
Preadu	50.52	Tr 50	48.76	45.10	46.00		46.03	0.001642	1.13	71.15	128.51	0.39
Preadu	50.52	Tr 100	60.19	45.10	46.08		46.12	0.001696	1.22	81.27	133.68	0.40
Preadu	50.52	Tr 200	71.98	45.10	46.16		46.20	0.001671	1.28	92.18	140.40	0.41
Preadu	50.52	Tr 500	88.02	45.10	46.25		46.30	0.001701	1.36	105.18	145.11	0.42
Preadu	40.7	Tr 50	48.76	44.70	45.99		46.02	0.000993	1.04	87.42	138.87	0.32
Preadu	40.7	Tr 100	60.19	44.70	46.07		46.10	0.001086	1.14	98.28	143.89	0.34
Preadu	40.7	Tr 200	71.98	44.70	46.15		46.18	0.001109	1.20	109.87	146.48	0.34
Preadu	40.7	Tr 500	88.02	44.70	46.24		46.27	0.001196	1.31	123.39	152.36	0.36
Preadu	28.3	Tr 50	48.76	45.36	45.99		46.00	0.000896	0.60	102.65	174.35	0.27
Preadu	28.3	Tr 100	60.19	45.36	46.07		46.08	0.000924	0.67	116.33	178.38	0.28
Preadu	28.3	Tr 200	71.98	45.36	46.15		46.16	0.000950	0.73	131.02	185.81	0.29
Preadu	28.3	Tr 500	88.02	45.36	46.24		46.26	0.000960	0.80	148.17	188.15	0.29
Preadu	9.4	Tr 50	48.76	44.70	46.00		46.00	0.000055	0.27	252.59	233.19	0.08
Preadu	9.4	Tr 100	60.19	44.70	46.07		46.08	0.000068	0.32	271.18	240.69	0.09
Preadu	9.4	Tr 200	71.98	44.70	46.15		46.16	0.000080	0.36	290.66	244.29	0.09
Preadu	9.4	Tr 500	88.02	44.70	46.25		46.25	0.000096	0.41	313.38	247.45	0.10

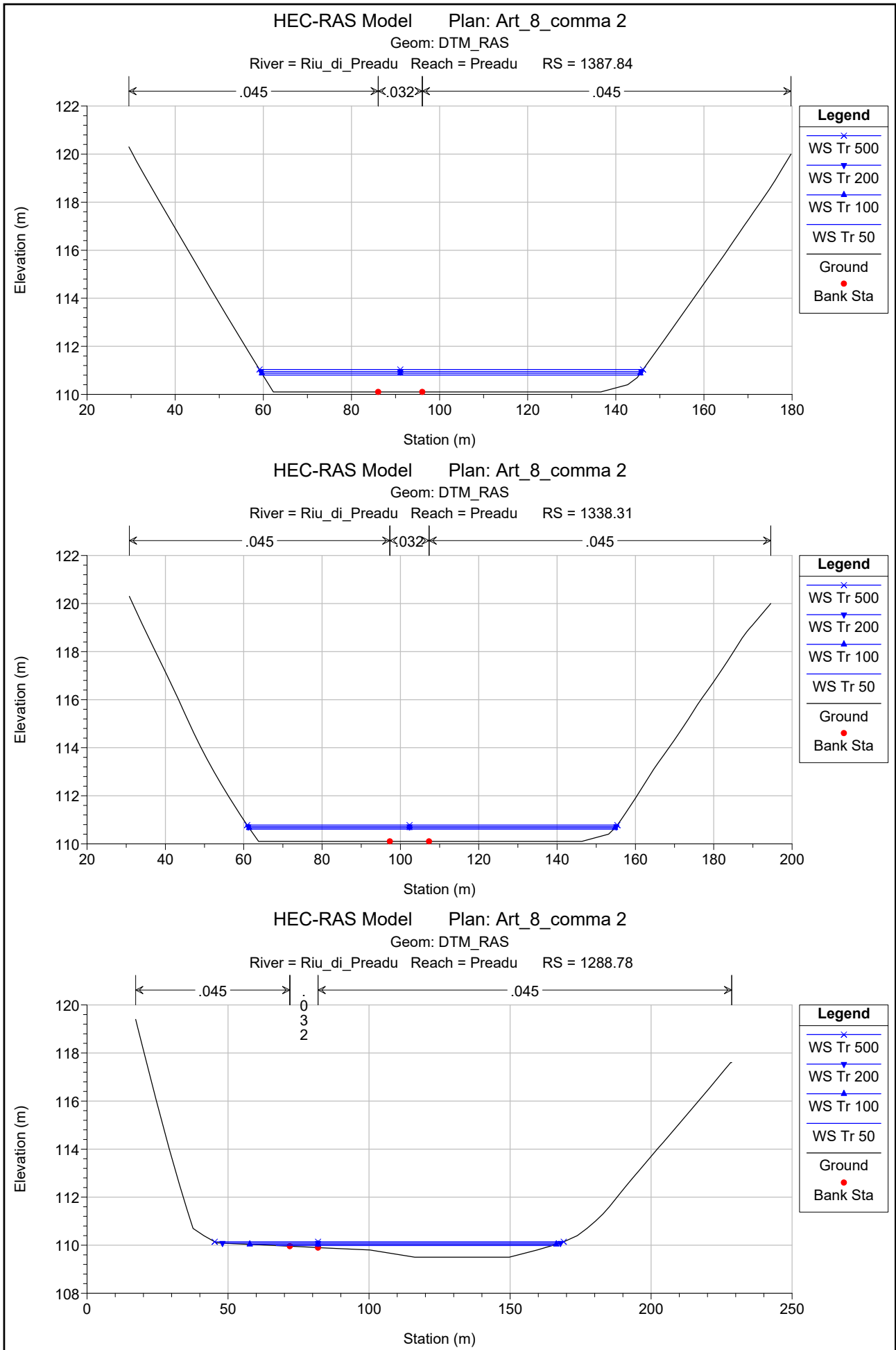
HEC-RAS Model Plan: Art_8_comma 2

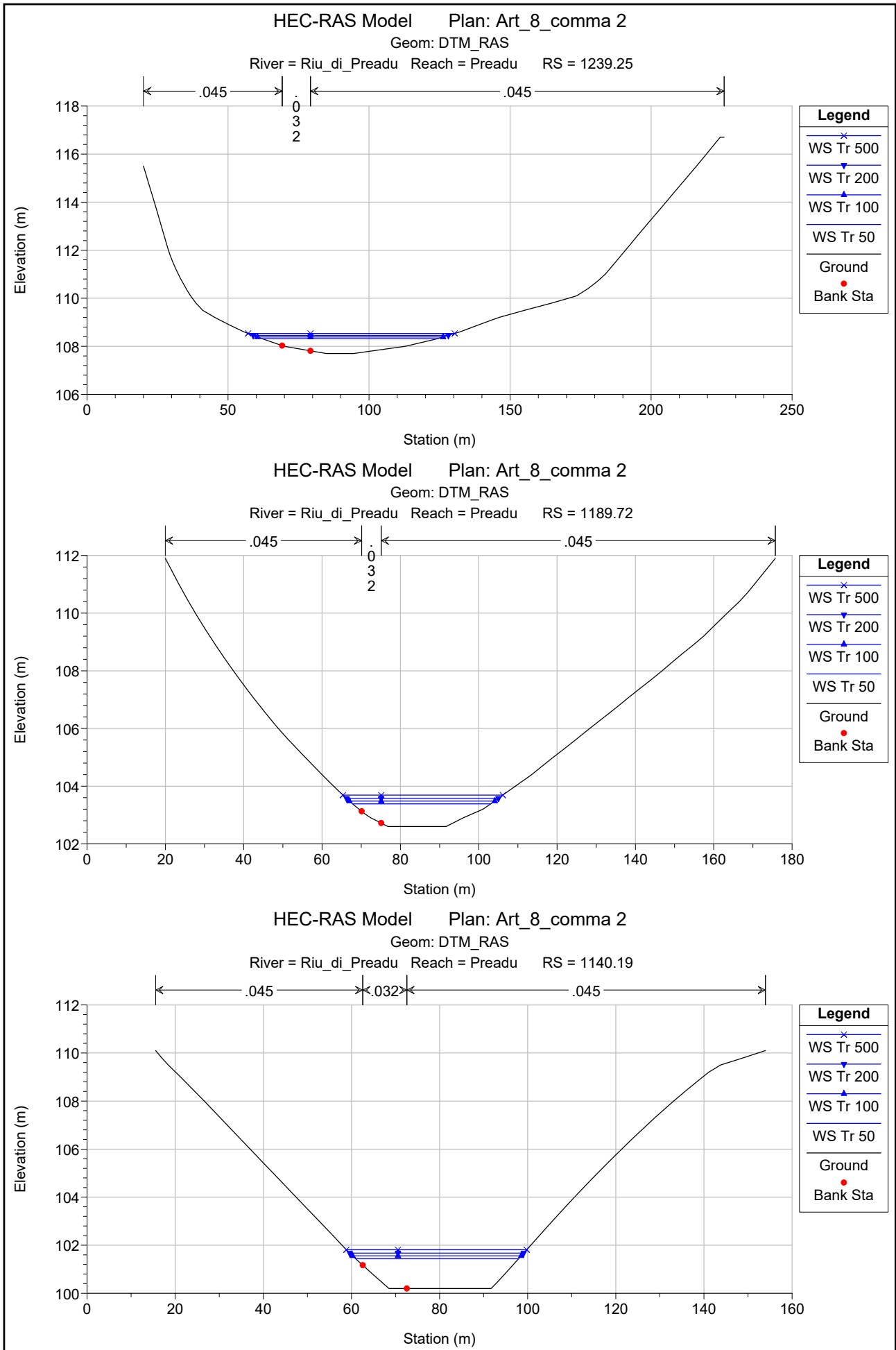
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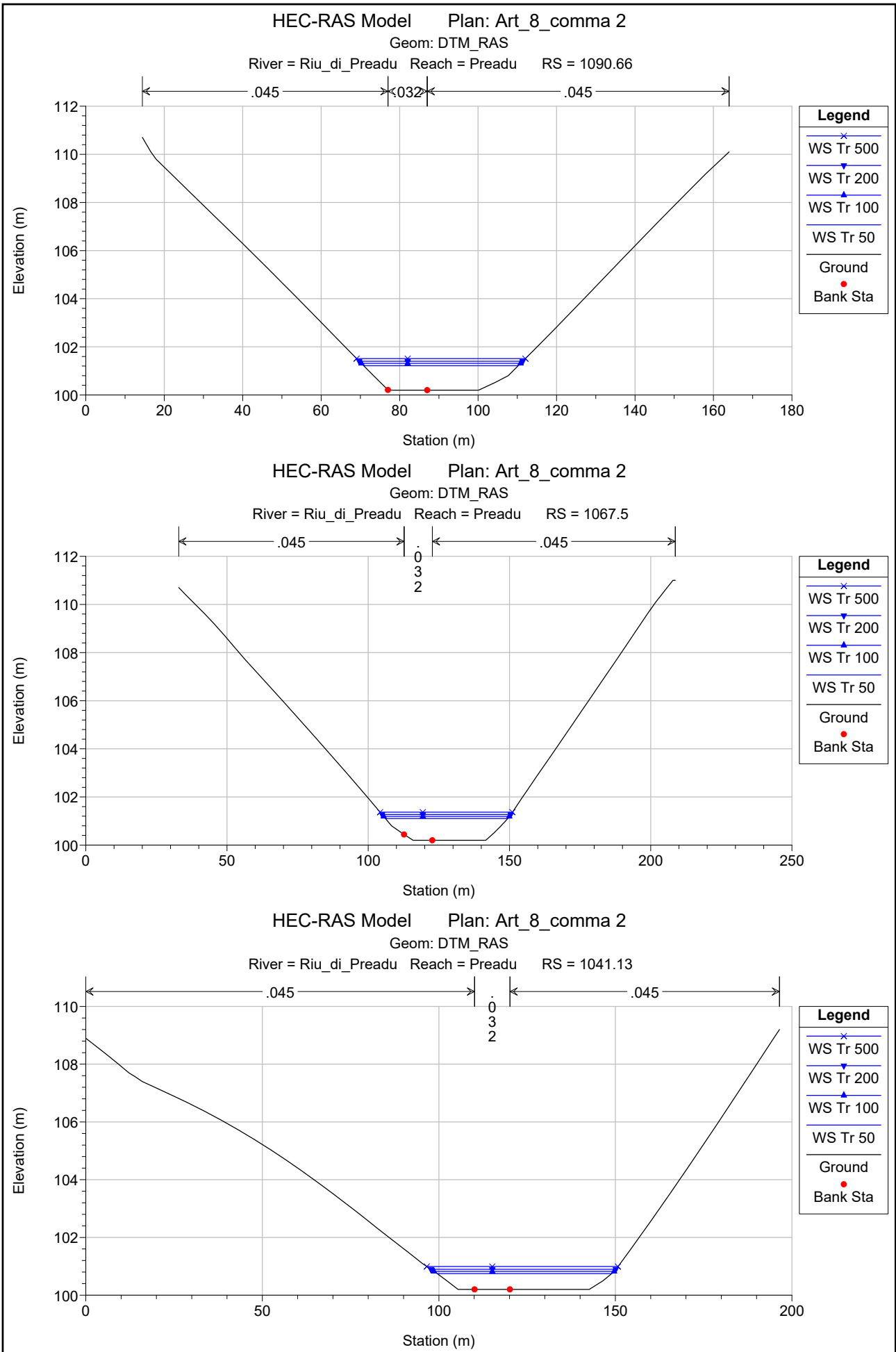
Riu_di_Preadu Preadu

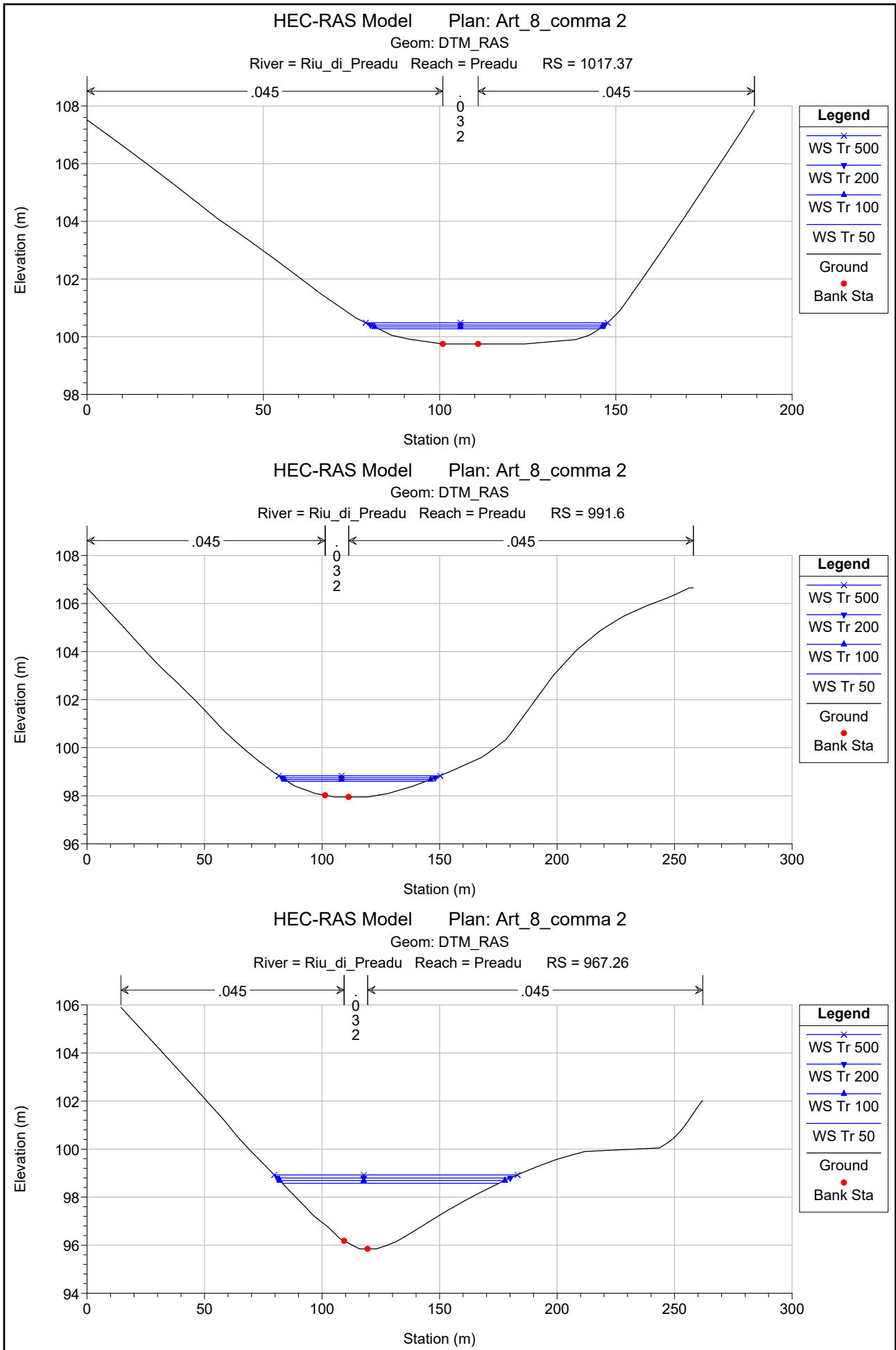


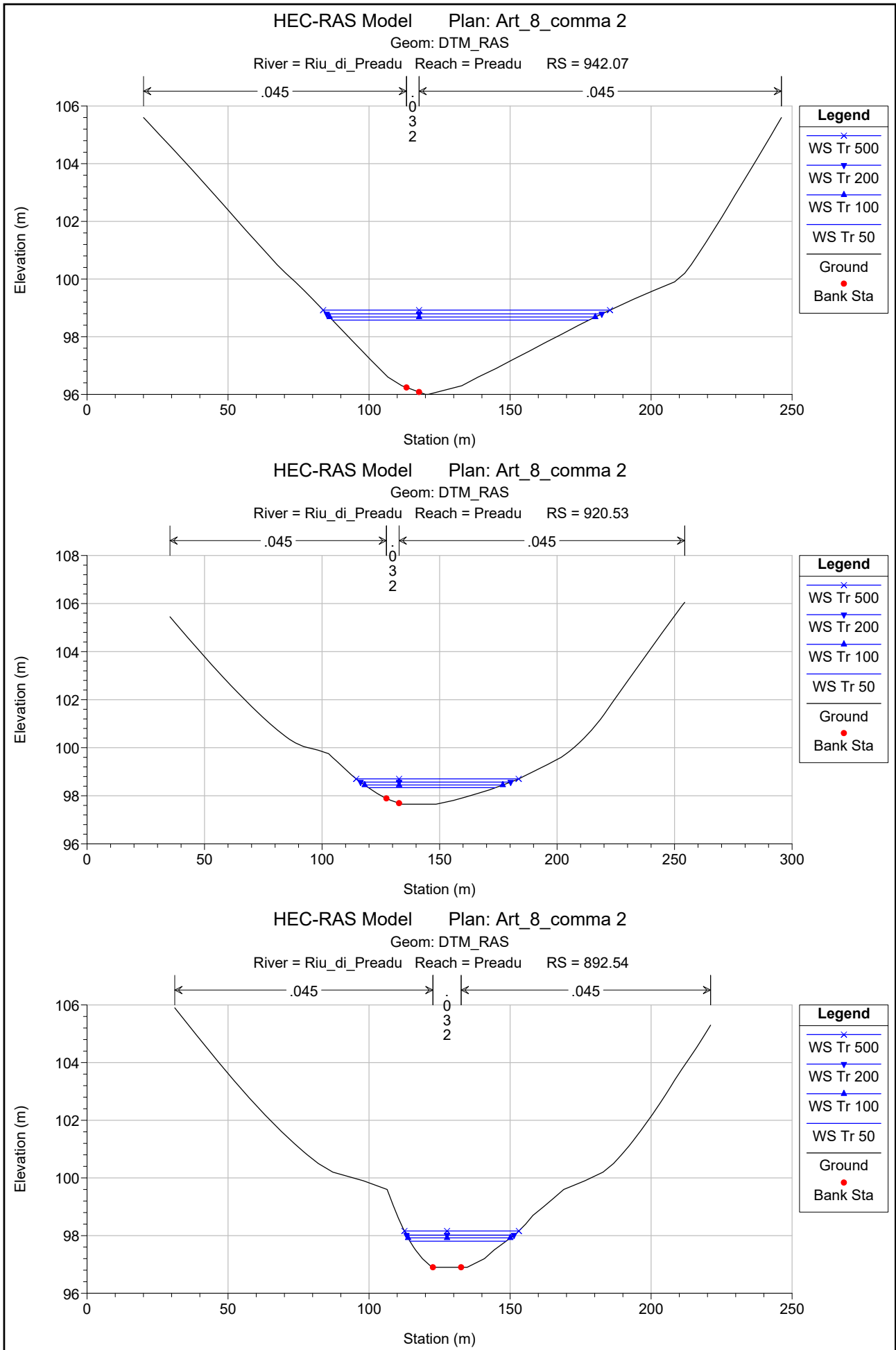


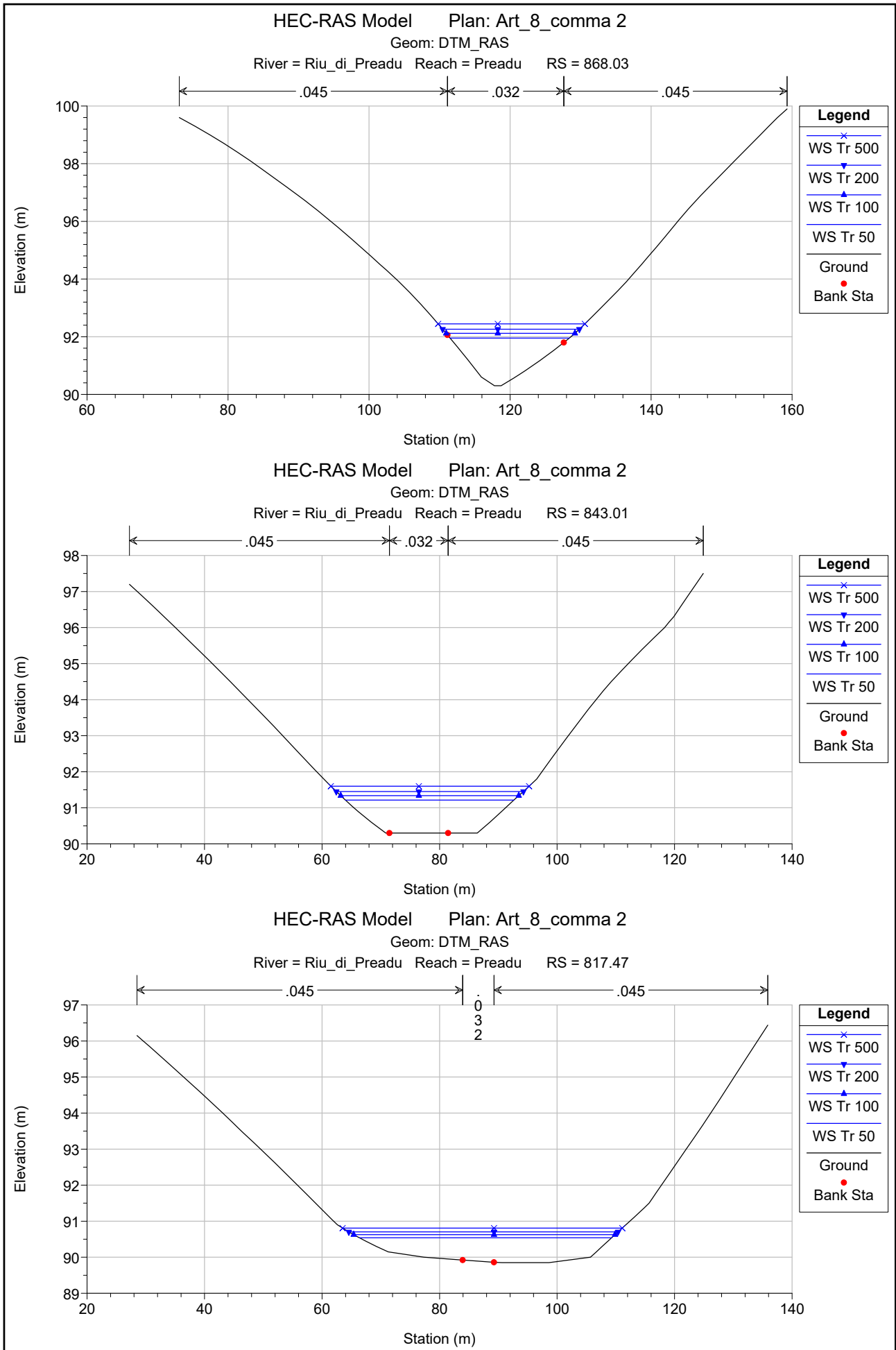


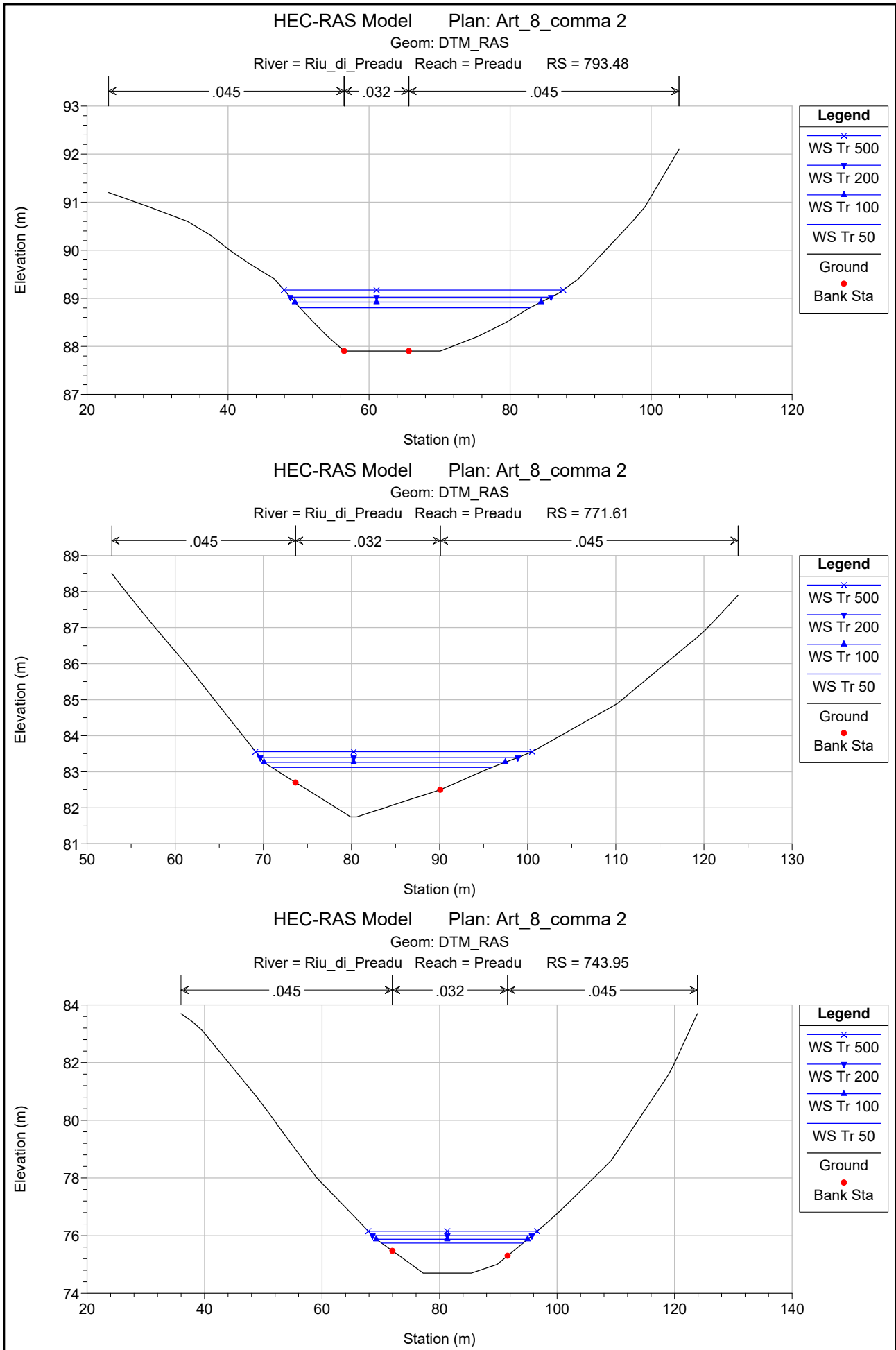


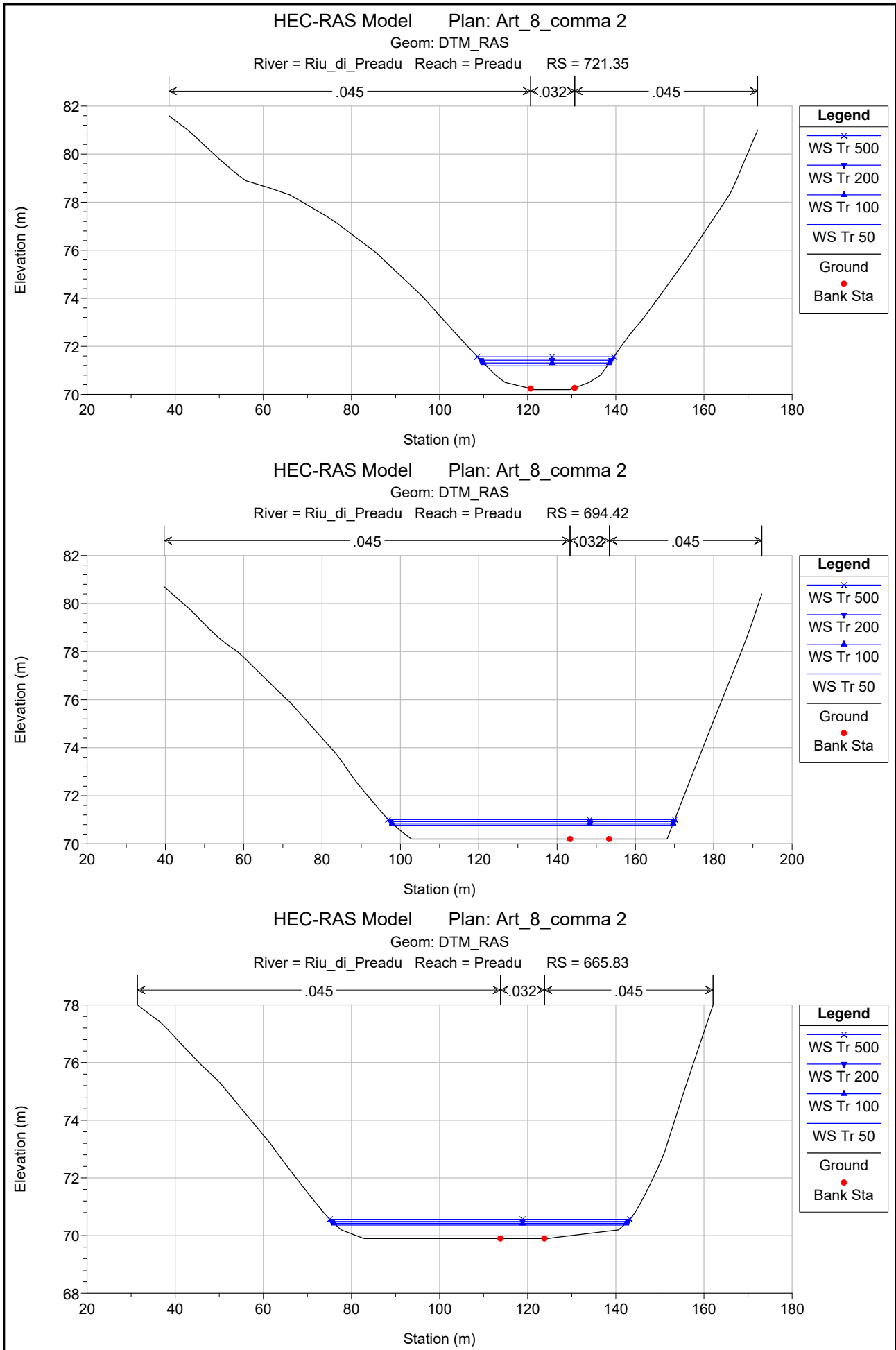


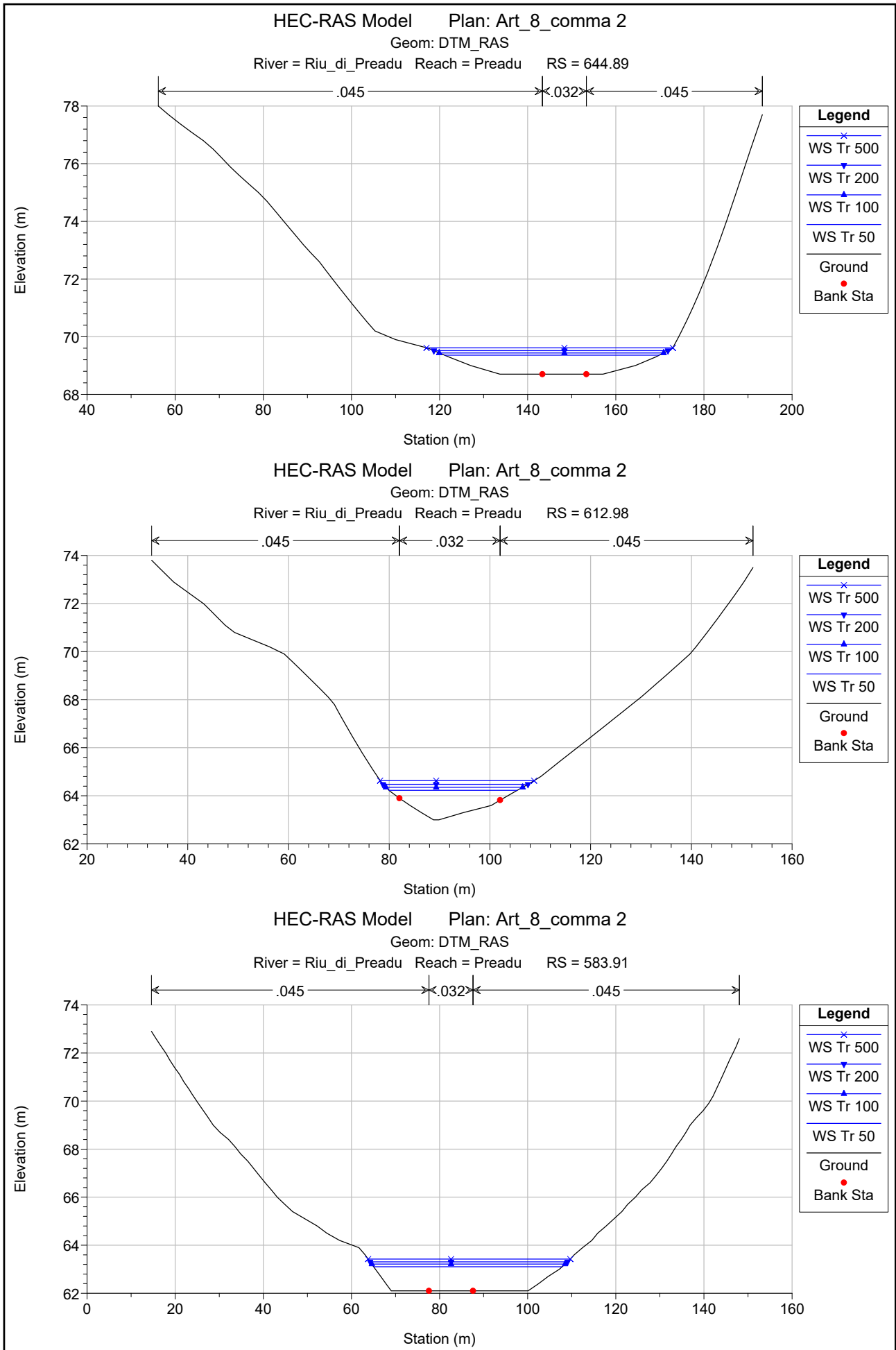


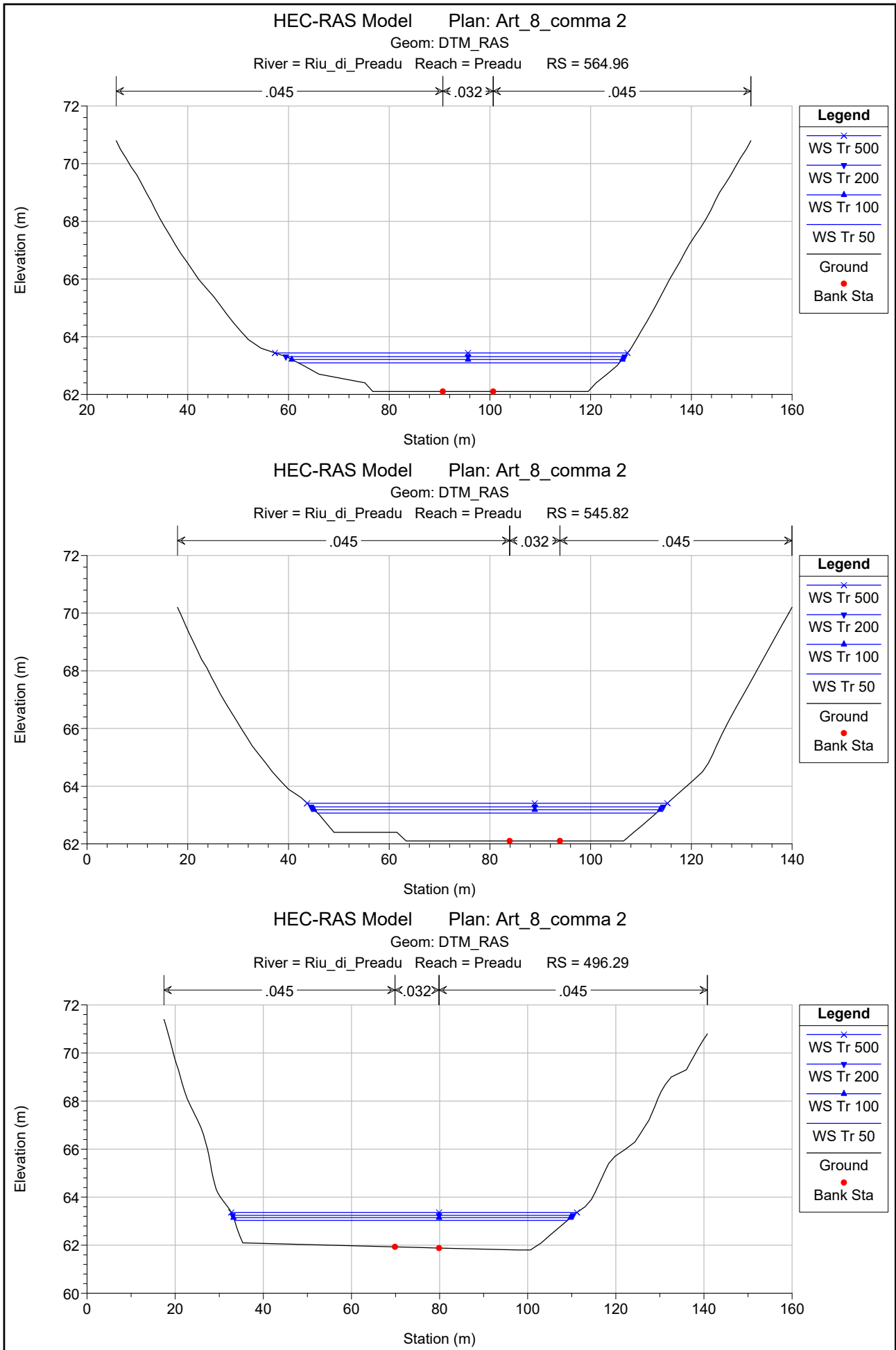


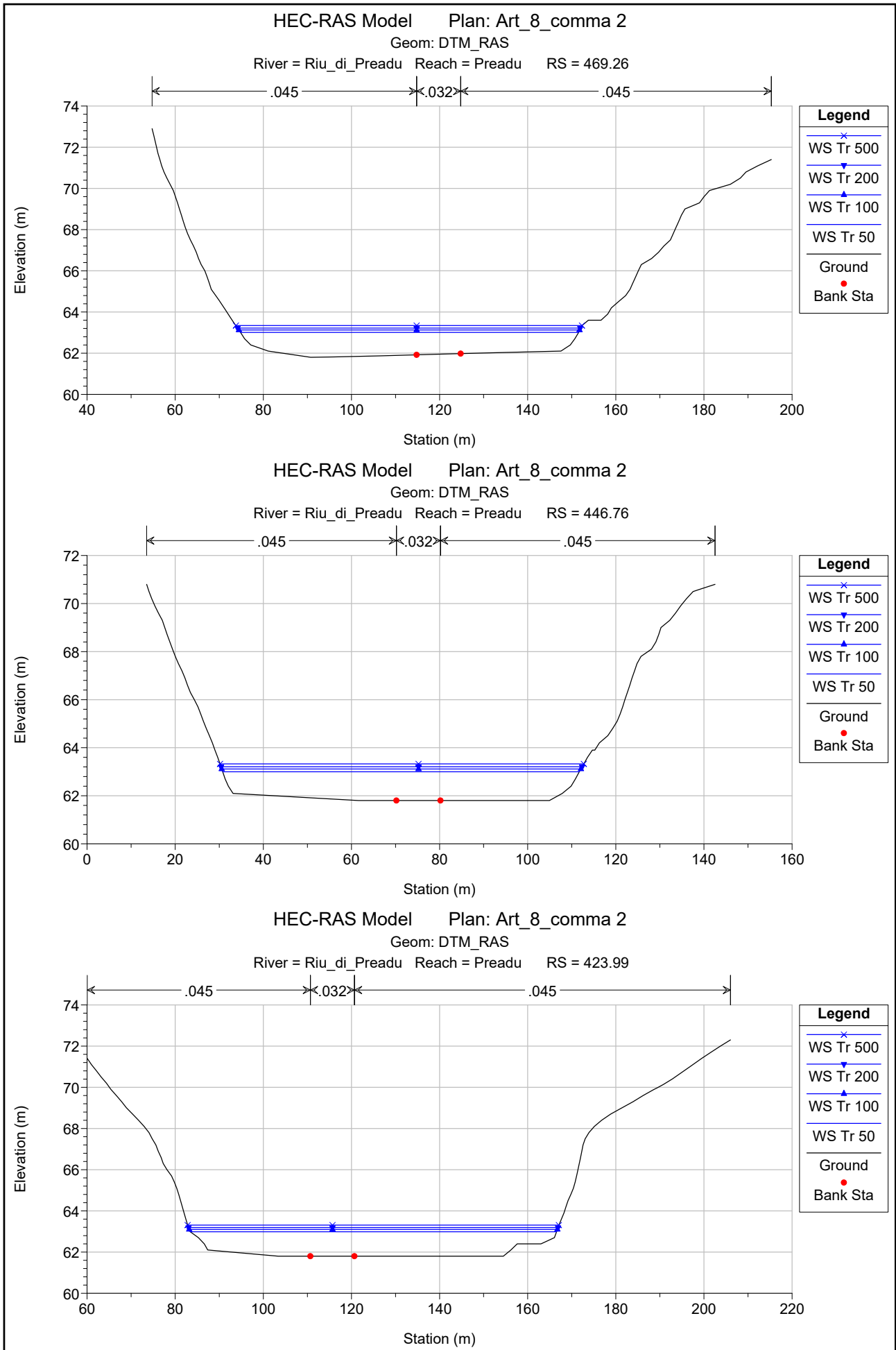


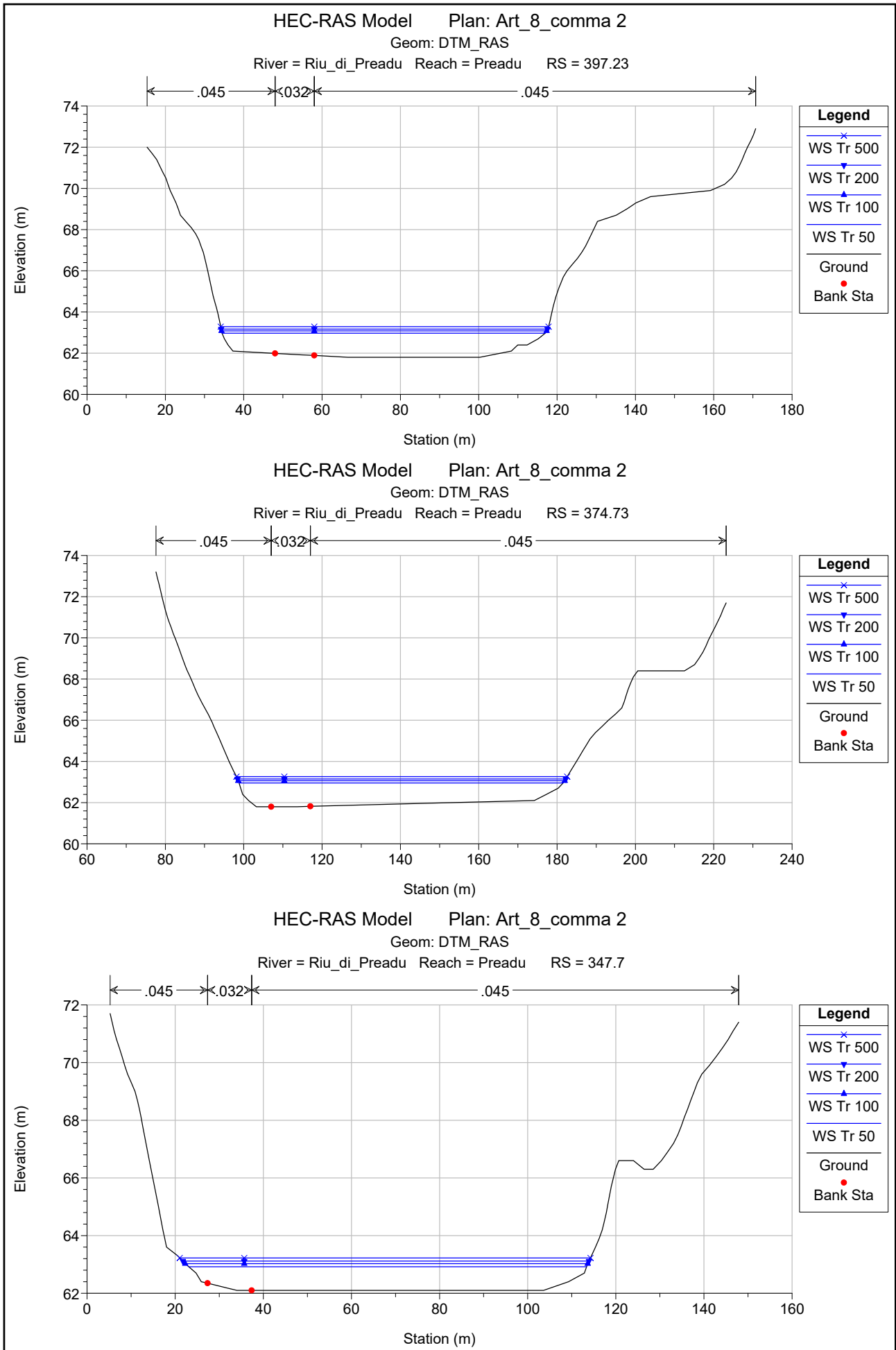


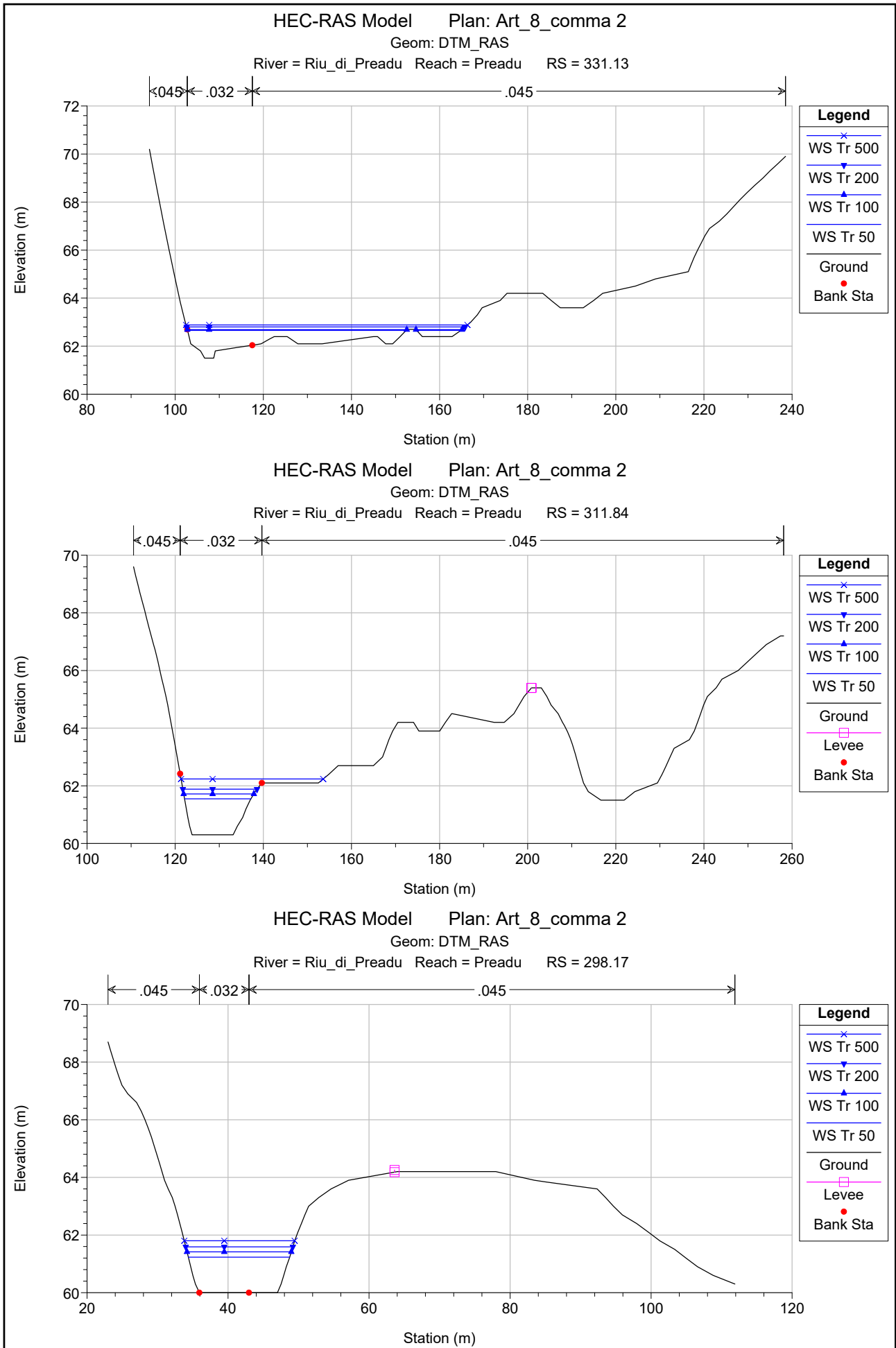


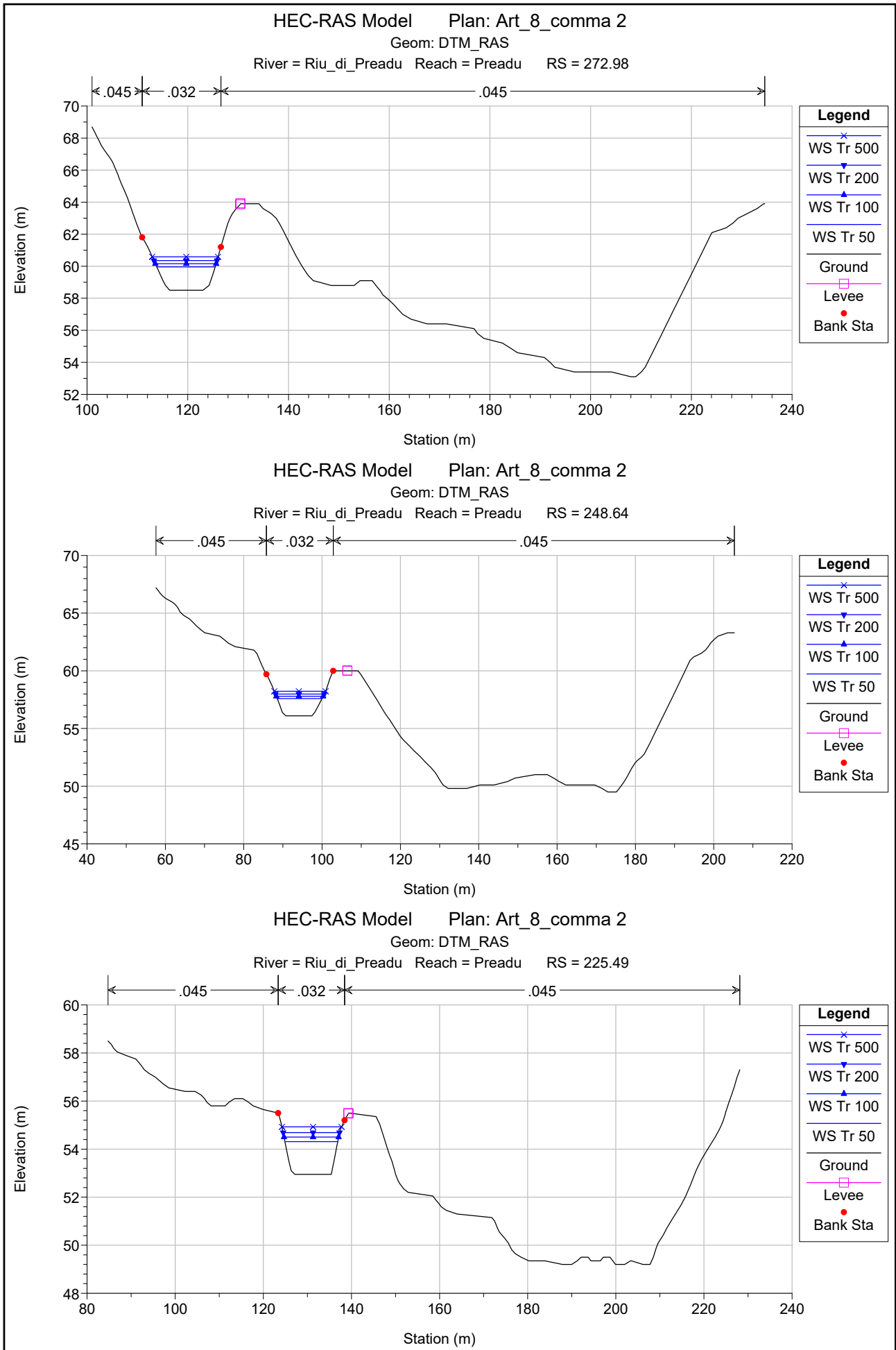


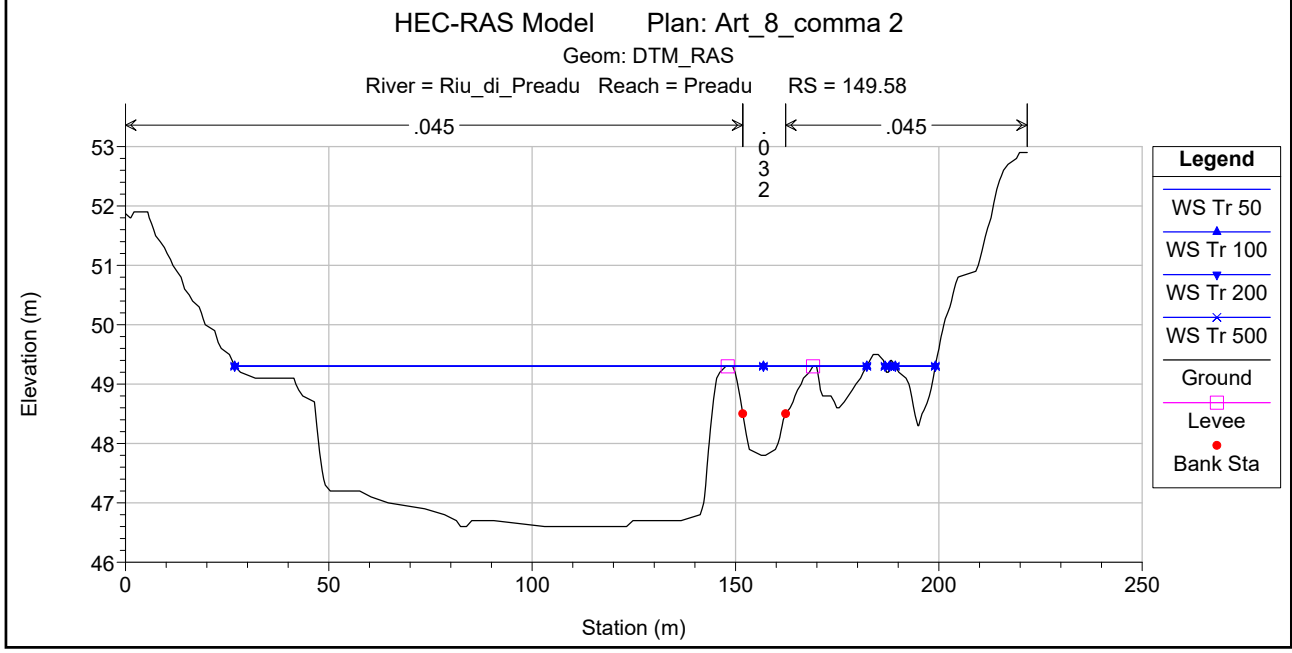
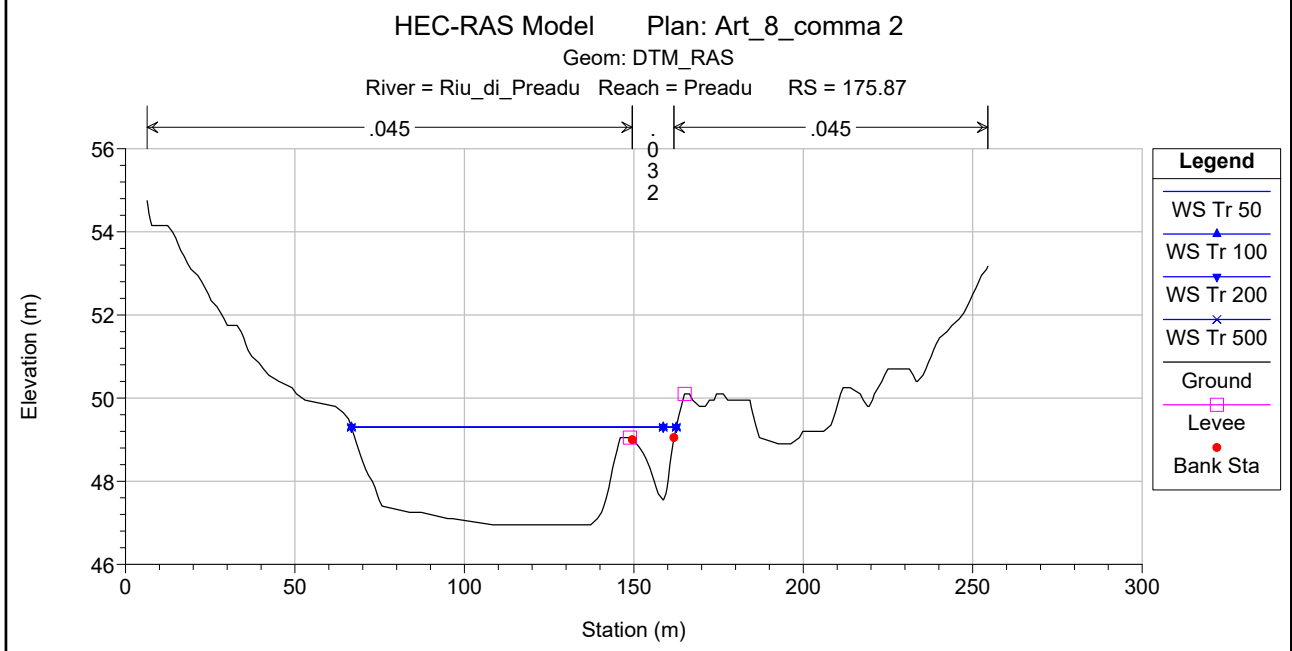
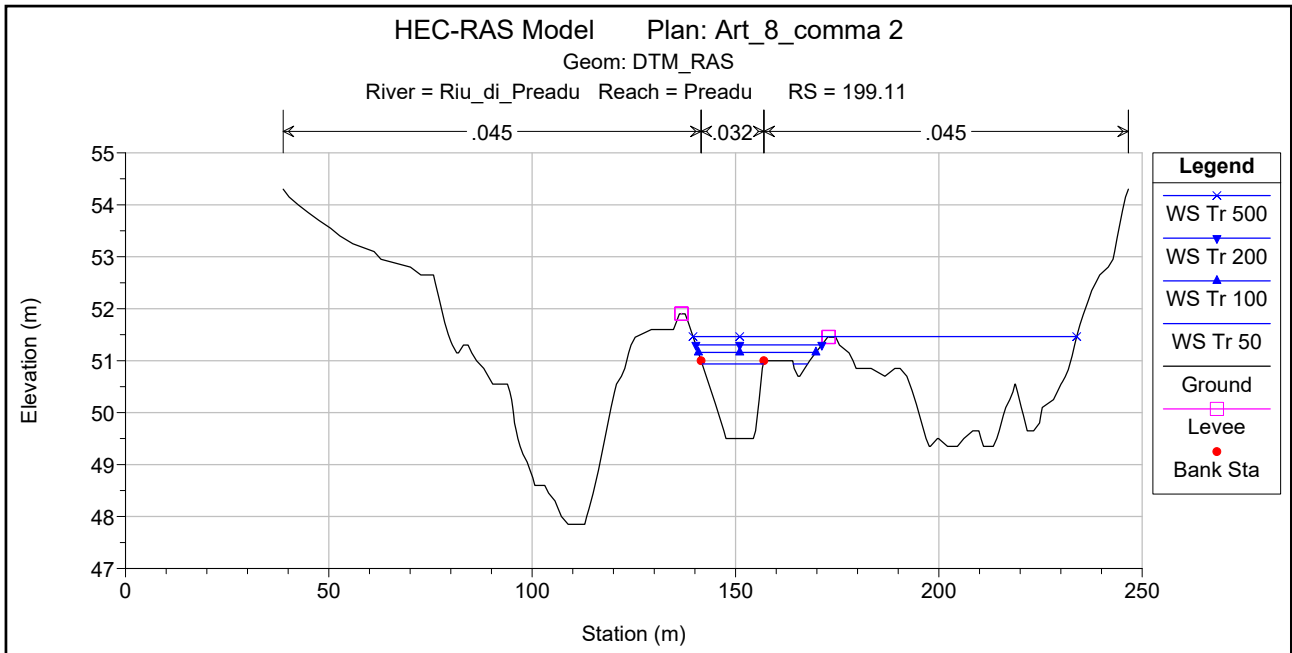


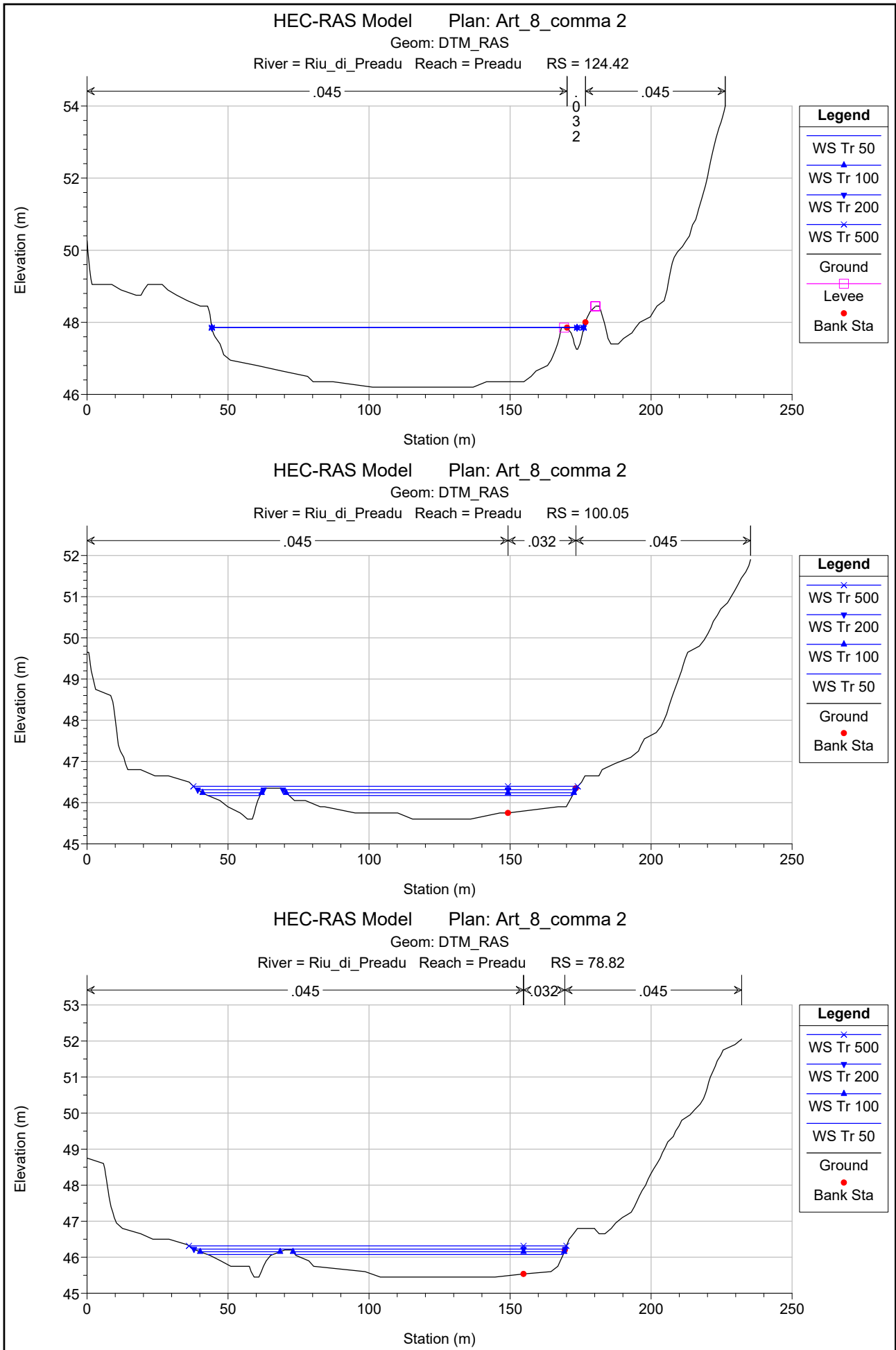


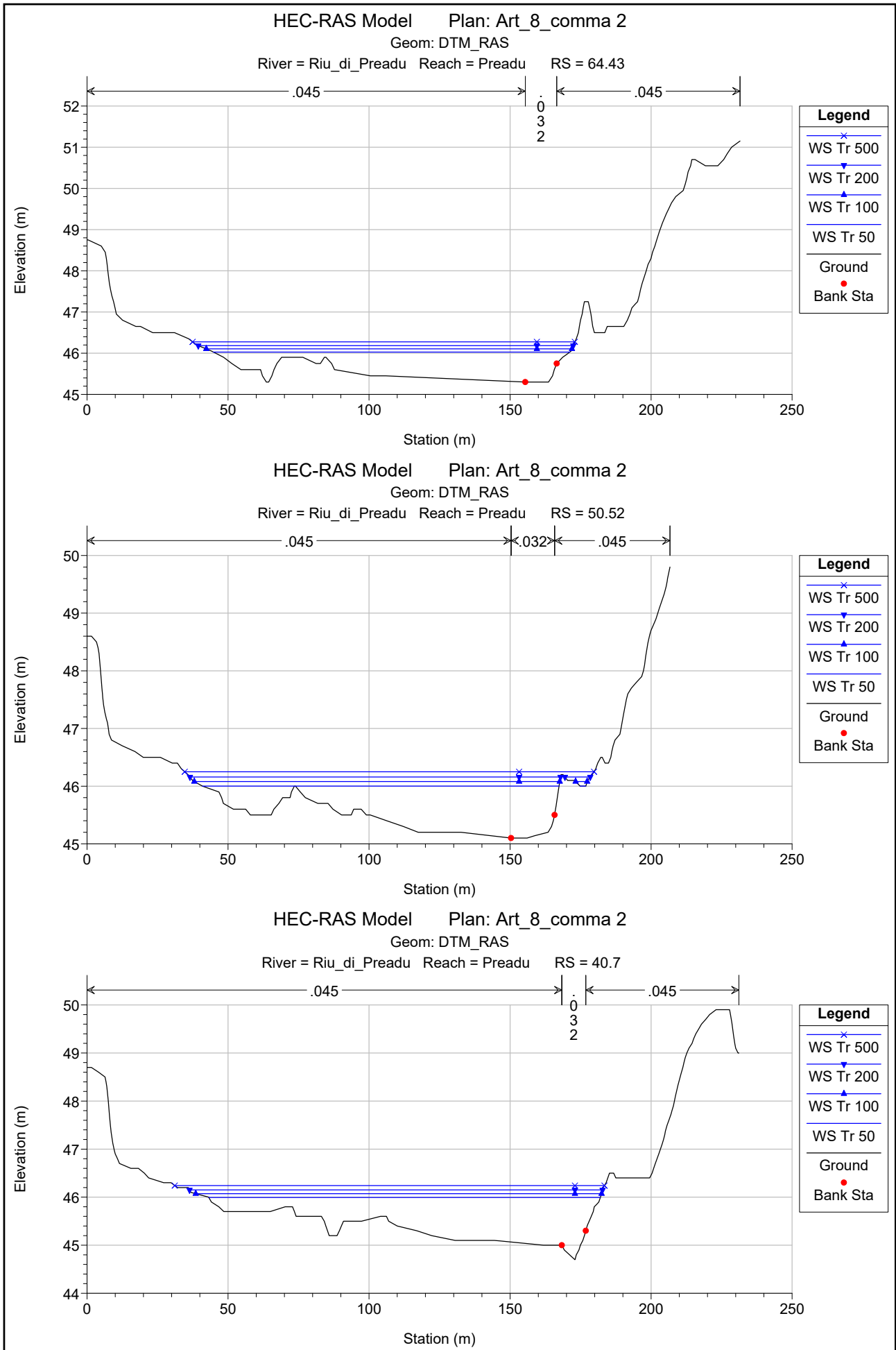


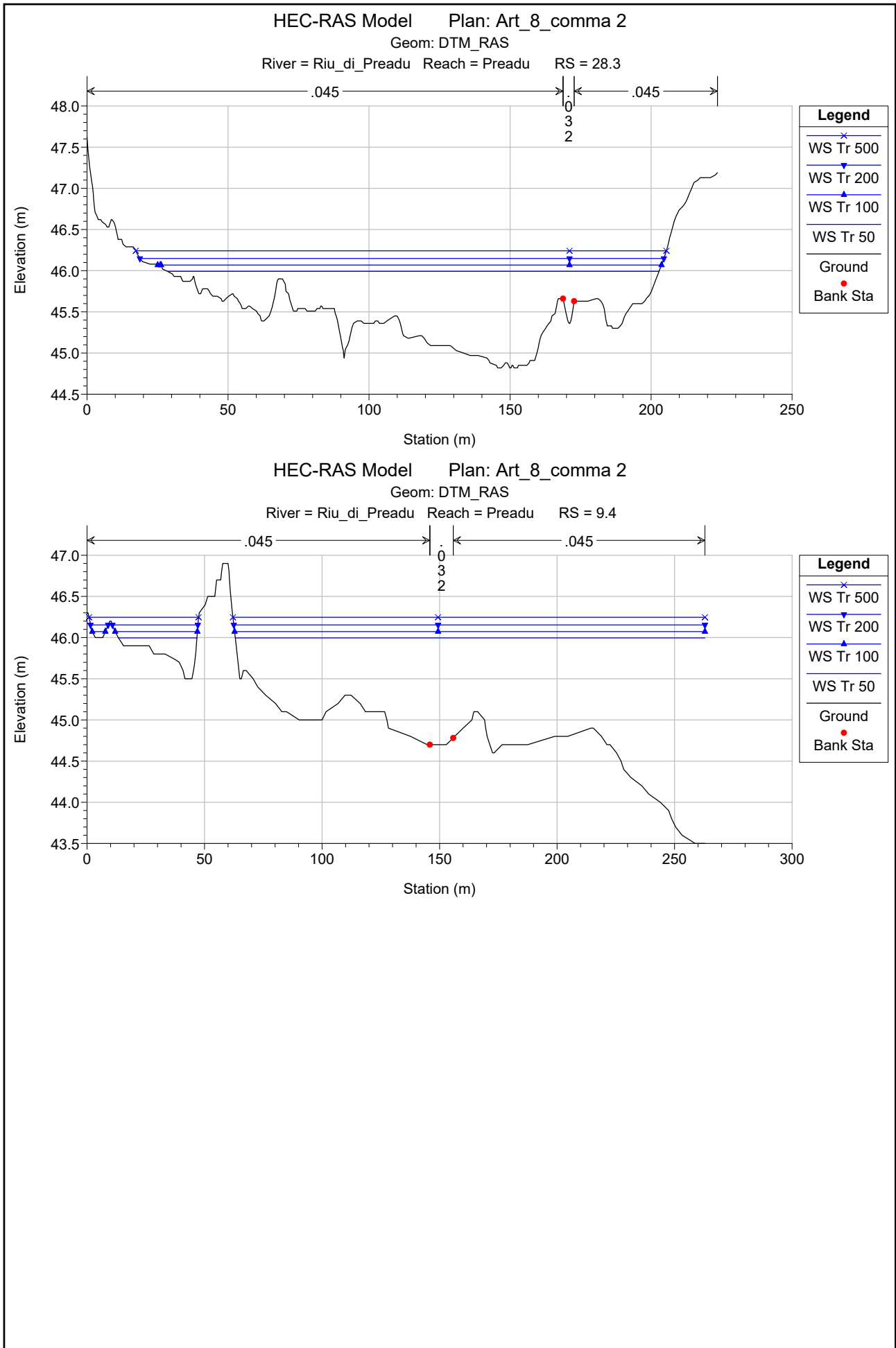












Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta_75526	794.92	Tr 50	28.27	51.90	53.32	53.32	53.55	0.007387	2.75	18.04	35.87	0.84
Asta_75526	794.92	Tr 100	34.78	51.90	53.40	53.40	53.65	0.007786	2.95	20.81	37.61	0.87
Asta_75526	794.92	Tr 200	41.50	51.90	53.46	53.46	53.74	0.008260	3.15	23.23	38.43	0.91
Asta_75526	794.92	Tr 500	50.60	51.90	53.55	53.55	53.85	0.008379	3.33	26.74	39.52	0.93
Asta_75526	745.3	Tr 50	28.27	50.10	51.51	51.51	51.82	0.006053	2.83	15.29	32.30	0.79
Asta_75526	745.3	Tr 100	34.78	50.10	51.65	51.65	51.94	0.005439	2.86	20.01	36.26	0.76
Asta_75526	745.3	Tr 200	41.50	50.10	51.73	51.73	52.05	0.005652	3.03	23.09	37.05	0.78
Asta_75526	745.3	Tr 500	50.60	50.10	51.84	51.84	52.17	0.005750	3.20	27.14	38.07	0.80
Asta_75526	695.68	Tr 50	28.27	48.90	50.28	50.28	50.54	0.007531	2.32	15.11	38.23	0.82
Asta_75526	695.68	Tr 100	34.78	48.90	50.38	50.38	50.64	0.006905	2.40	19.06	41.66	0.80
Asta_75526	695.68	Tr 200	41.50	48.90	50.47	50.47	50.73	0.006537	2.48	22.77	43.78	0.79
Asta_75526	695.68	Tr 500	50.60	48.90	50.54	50.54	50.85	0.007207	2.72	25.80	45.27	0.84
Asta_75526	646.06	Tr 50	28.27	48.30	48.87	48.87	49.08	0.013656	2.51	15.82	35.98	1.06
Asta_75526	646.06	Tr 100	34.78	48.30	48.93	48.93	49.17	0.014030	2.72	17.98	36.68	1.09
Asta_75526	646.06	Tr 200	41.50	48.30	48.99	48.99	49.26	0.013851	2.88	20.32	37.58	1.10
Asta_75526	646.06	Tr 500	50.60	48.30	49.07	49.07	49.38	0.013502	3.06	23.42	38.74	1.11
Asta_75526	596.44	Tr 50	28.27	46.91	47.43	47.43	47.62	0.019345	2.34	15.50	42.49	1.19
Asta_75526	596.44	Tr 100	34.78	46.91	47.49	47.49	47.70	0.018748	2.51	17.90	43.19	1.19
Asta_75526	596.44	Tr 200	41.50	46.91	47.55	47.55	47.78	0.017596	2.64	20.48	43.93	1.18
Asta_75526	596.44	Tr 500	50.60	46.91	47.61	47.61	47.88	0.017407	2.85	23.35	44.75	1.20
Asta_75526	546.82	Tr 50	28.27	45.60	46.13	46.13	46.32	0.015306	2.43	16.80	44.25	1.10
Asta_75526	546.82	Tr 100	34.78	45.60	46.19	46.19	46.40	0.015183	2.60	19.32	45.09	1.11
Asta_75526	546.82	Tr 200	41.50	45.60	46.24	46.24	46.47	0.015080	2.76	21.75	45.83	1.13
Asta_75526	546.82	Tr 500	50.60	45.60	46.31	46.31	46.57	0.014923	2.94	24.86	46.73	1.14
Asta_75526	497.2	Tr 50	28.27	44.40	44.89	44.89	45.07	0.015409	2.40	16.47	42.94	1.10
Asta_75526	497.2	Tr 100	34.78	44.40	44.94	44.94	45.15	0.015300	2.57	18.91	43.59	1.11
Asta_75526	497.2	Tr 200	41.50	44.40	45.00	45.00	45.23	0.015045	2.72	21.34	44.23	1.12
Asta_75526	497.2	Tr 500	50.60	44.40	45.07	45.07	45.33	0.014855	2.90	24.36	44.79	1.14
Asta_75526	447.58	Tr 50	28.27	42.90	43.32	43.32	43.50	0.025733	2.29	15.02	41.26	1.30
Asta_75526	447.58	Tr 100	34.78	42.90	43.37	43.37	43.58	0.024585	2.44	17.28	41.51	1.30
Asta_75526	447.58	Tr 200	41.50	42.90	43.42	43.42	43.66	0.023663	2.57	19.47	41.74	1.30
Asta_75526	447.58	Tr 500	50.60	42.90	43.49	43.49	43.76	0.022425	2.71	22.35	42.04	1.29
Asta_75526	397.96	Tr 50	28.27	40.80	41.58	41.58	41.78	0.009223	2.38	18.23	43.67	0.90
Asta_75526	397.96	Tr 100	34.78	40.80	41.64	41.64	41.86	0.009627	2.57	20.78	44.02	0.94
Asta_75526	397.96	Tr 200	41.50	40.80	41.70	41.70	41.94	0.009666	2.70	23.44	44.38	0.95
Asta_75526	397.96	Tr 500	50.60	40.80	41.67	41.37	42.08	0.017363	3.53	21.96	44.18	1.26
Asta_75526	348.34	Tr 50	28.27	39.90	40.43	40.43	40.61	0.013363	2.37	17.52	53.37	1.04
Asta_75526	348.34	Tr 100	34.78	39.90	40.47	40.47	40.69	0.015648	2.68	19.43	56.28	1.13
Asta_75526	348.34	Tr 200	41.50	39.90	40.57	40.57	40.77	0.011253	2.55	26.05	62.76	0.99
Asta_75526	348.34	Tr 500	50.60	39.90	40.47	40.47	40.93	0.031921	3.84	19.73	56.71	1.62
Asta_75526	298.72	Tr 50	28.27	38.70	39.03	39.03	39.19	0.023300	2.29	17.16	56.02	1.27
Asta_75526	298.72	Tr 100	34.78	38.70	39.08	39.08	39.25	0.022784	2.46	19.65	56.54	1.28
Asta_75526	298.72	Tr 200	41.50	38.70	39.12	39.12	39.32	0.022043	2.61	22.15	57.05	1.28
Asta_75526	298.72	Tr 500	50.60	38.70	39.27	39.27	39.42	0.011572	2.31	30.67	58.76	0.98
Asta_75526	249.1	Tr 50	28.27	37.05	37.78	37.78	37.91	0.010724	2.10	22.82	81.16	0.93
Asta_75526	249.1	Tr 100	34.78	37.05	37.83	37.83	37.97	0.010725	2.22	26.35	82.14	0.94
Asta_75526	249.1	Tr 200	41.50	37.05	37.86	37.86	38.02	0.010908	2.34	29.57	83.22	0.96
Asta_75526	249.1	Tr 500	50.60	37.05	37.89	37.89	38.09	0.012920	2.62	31.94	84.01	1.05
Asta_75526	226.64	Tr 50	28.27	36.75	37.25	37.25	37.37	0.018650	2.44	21.29	81.85	1.18
Asta_75526	226.64	Tr 100	34.78	36.75	37.28	37.28	37.42	0.019621	2.62	23.86	82.10	1.23
Asta_75526	226.64	Tr 200	41.50	36.75	37.32	37.32	37.47	0.018944	2.71	26.94	82.41	1.22
Asta_75526	226.64	Tr 500	50.60	36.75	37.35	37.35	37.53	0.020876	2.97	29.75	94.21	1.29
Asta_75526	209.93	Tr 50	28.27	36.15	36.57	36.57	36.68	0.024992	2.16	20.21	89.09	1.27
Asta_75526	209.93	Tr 100	34.78	36.15	36.61	36.61	36.73	0.024996	2.30	23.25	92.14	1.29
Asta_75526	209.93	Tr 200	41.50	36.15	36.64	36.64	36.78	0.023658	2.39	26.45	92.62	1.28
Asta_75526	209.93	Tr 500	50.60	36.15	36.68	36.68	36.84	0.024108	2.58	29.79	93.11	1.31
Asta_75526	187.48	Tr 50	28.27	35.85	35.98	35.98	36.07	0.020077	0.82	21.38	82.03	0.93
Asta_75526	187.48	Tr 100	34.78	35.85	36.01	35.98	36.12	0.020035	0.98	24.41	84.09	0.97
Asta_75526	187.48	Tr 200	41.50	35.85	36.04	36.01	36.16	0.021481	1.18	26.65	84.97	1.04
Asta_75526	187.48	Tr 500	50.60	35.85	36.09	36.06	36.23	0.019103	1.39	31.25	86.76	1.04
Asta_75526	149.86	Tr 50	28.27	34.80	35.16	35.16	35.26	0.023075	2.26	23.21	117.32	1.25
Asta_75526	149.86	Tr 100	34.78	34.80	35.19	35.19	35.30	0.023638	2.41	26.40	119.91	1.28
Asta_75526	149.86	Tr 200	41.50	34.80	35.23	35.23	35.33	0.021859	2.45	30.44	123.13	1.25
Asta_75526	149.86	Tr 500	50.60	34.80	35.24	35.24	35.38	0.026048	2.76	32.76	124.93	1.38
Asta_75526	100.24	Tr 50	28.27	33.78	33.97		34.00	0.007725	0.67	37.60	167.38	0.62
Asta_75526	100.24	Tr 100	34.78	33.78	34.08		34.10	0.003278	0.68	57.03	184.20	0.45
Asta_75526	100.24	Tr 200	41.50	33.78	34.18		34.20	0.002021	0.67	74.80	192.12	0.37
Asta_75526	100.24	Tr 500	50.60	33.78	34.30		34.31	0.001268	0.65	98.47	198.01	0.31
Asta_75526	50.62	Tr 50	28.27	33.37	33.99		33.99	0.000024	0.11	257.50	265.52	0.04
Asta_75526	50.62	Tr 100	34.78	33.37	34.09		34.09	0.000026	0.12	285.37	266.06	0.05

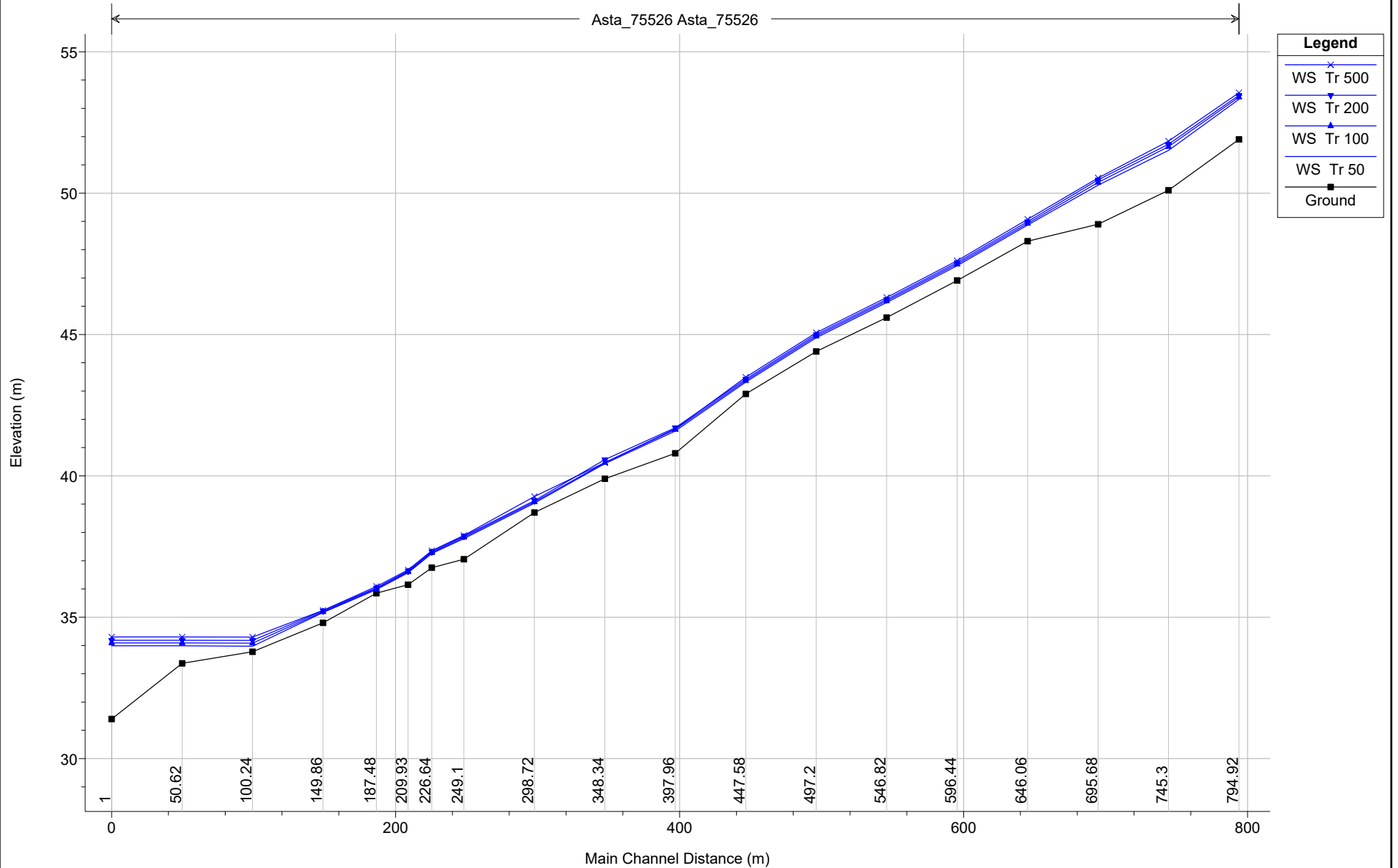
HEC-RAS Plan: Art_8_comma 2 River: Asta_75526 Reach: Asta_75526 (Continued)

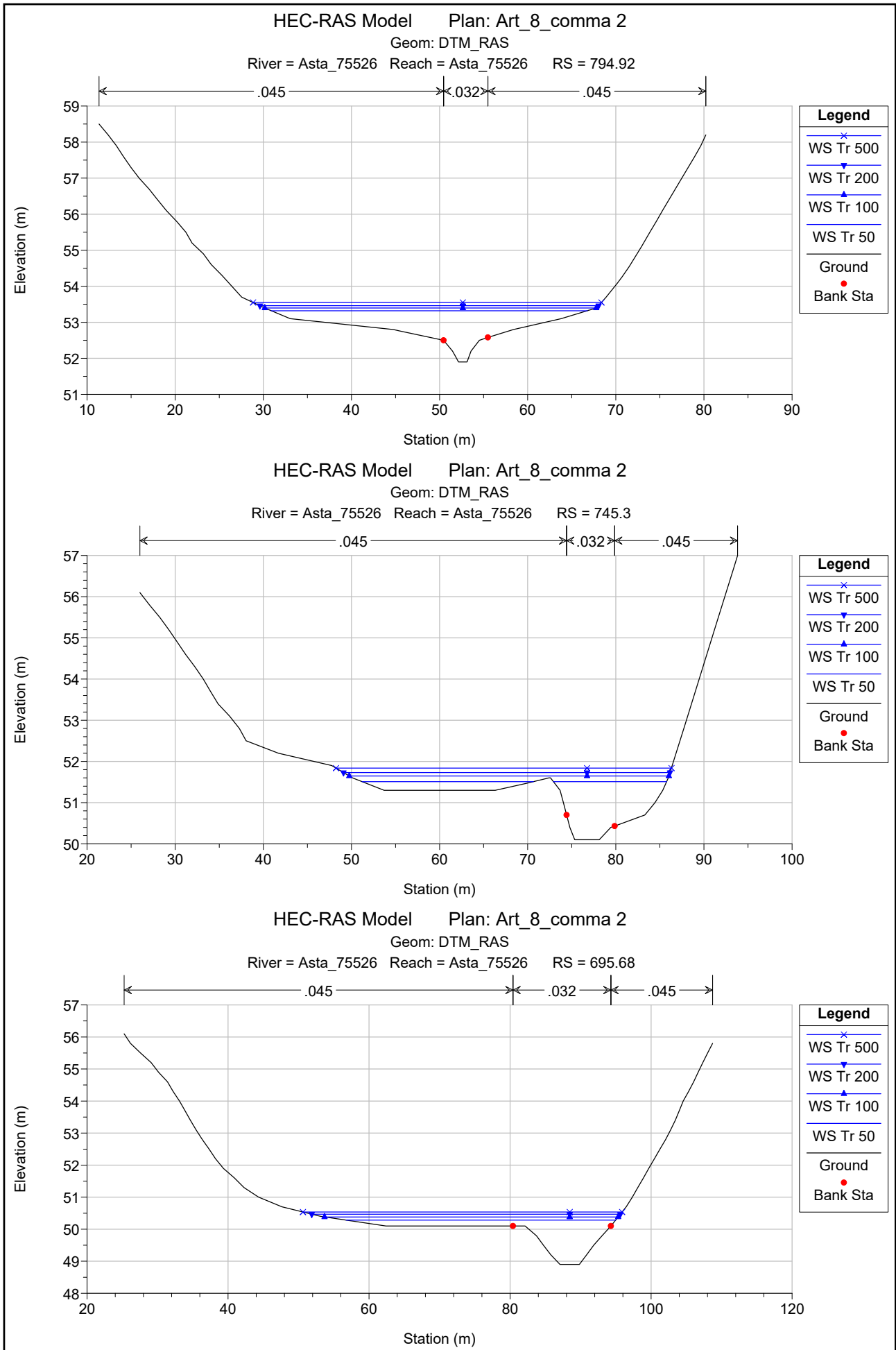
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta_75526	50.62	Tr 200	41.50	33.37	34.19		34.19	0.000028	0.14	309.80	266.56	0.05
Asta_75526	50.62	Tr 500	50.60	33.37	34.30		34.31	0.000031	0.16	341.61	267.21	0.05
Asta_75526	1	Tr 50	28.27	31.40	33.99		33.99	0.000005	0.12	384.05	238.84	0.03
Asta_75526	1	Tr 100	34.78	31.40	34.09		34.09	0.000006	0.14	409.19	240.75	0.03
Asta_75526	1	Tr 200	41.50	31.40	34.18		34.19	0.000008	0.15	431.33	242.30	0.03
Asta_75526	1	Tr 500	50.60	31.40	34.30		34.30	0.000009	0.17	460.29	243.88	0.03

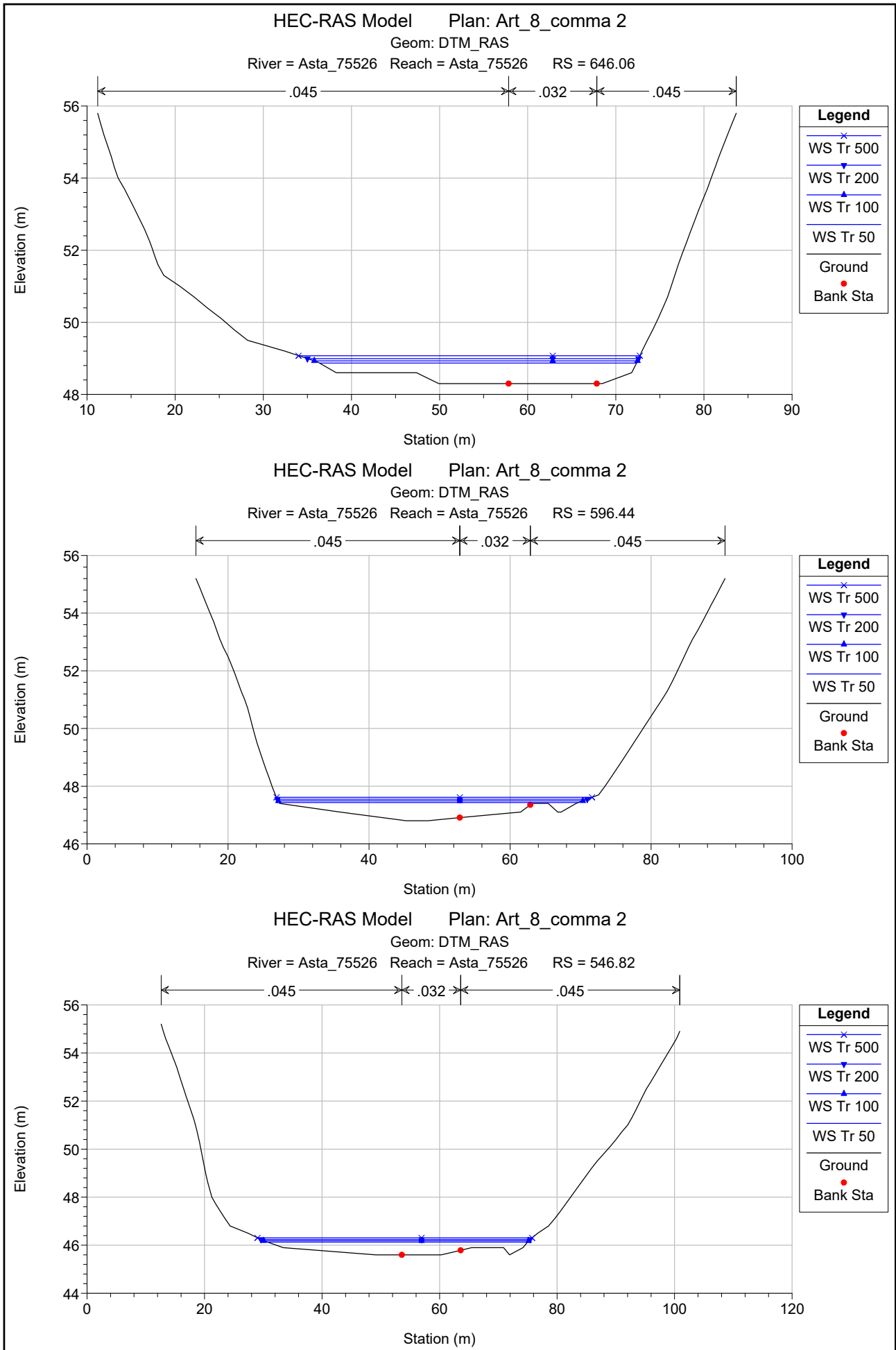
HEC-RAS Model Plan: Art_8_comma 2

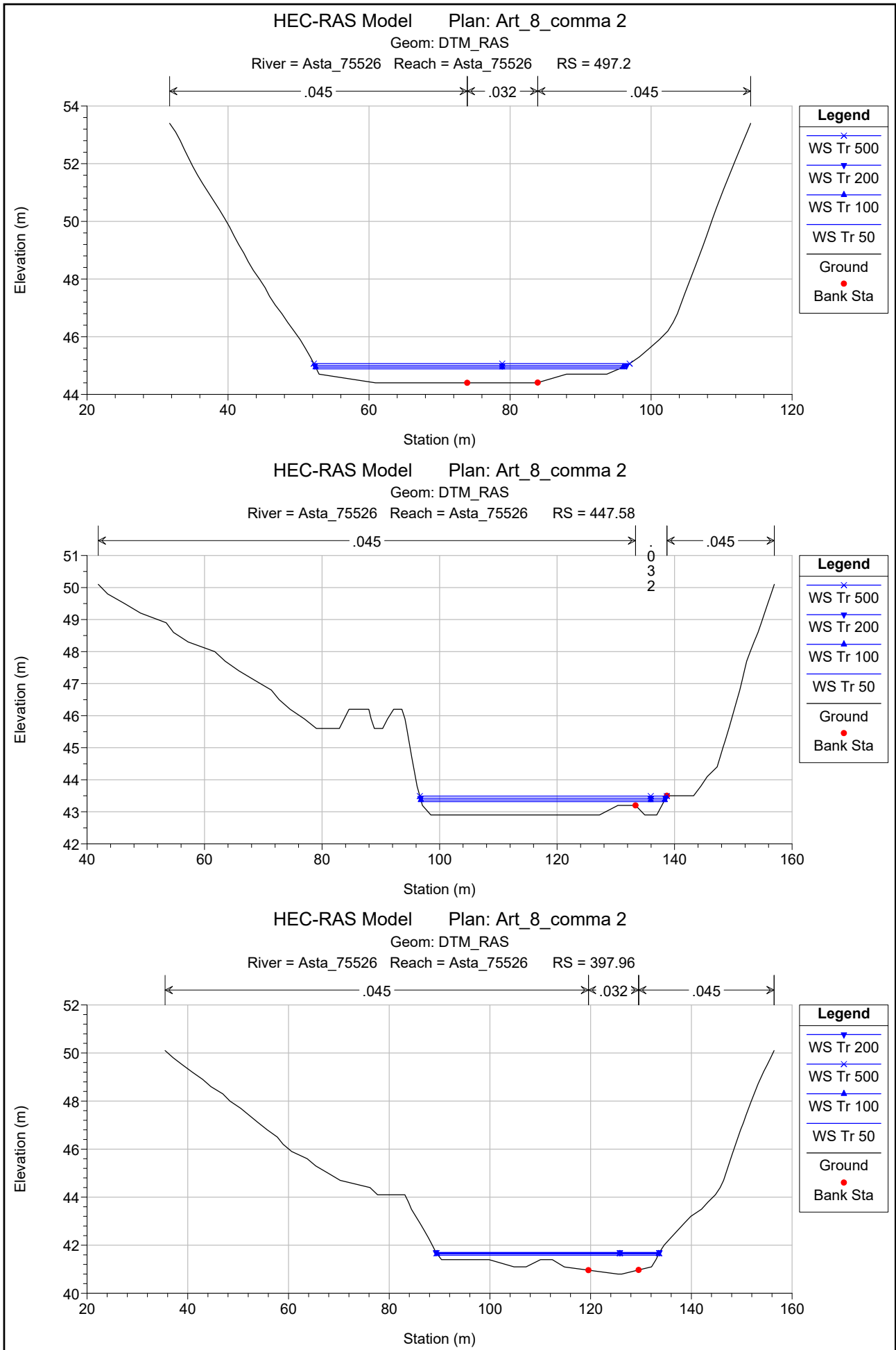
Geom: DTM_RAS

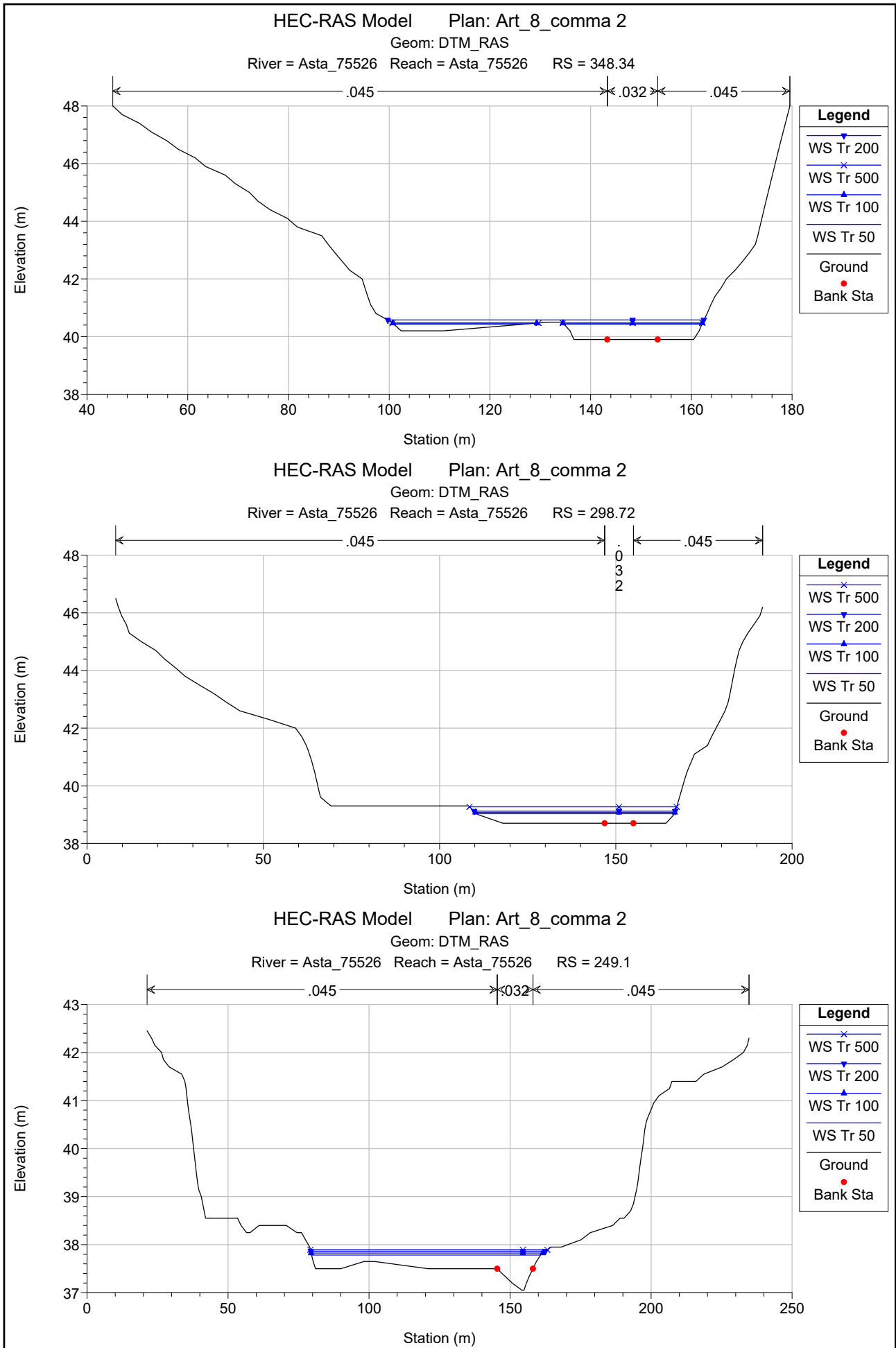
Asta_75526 Asta_75526

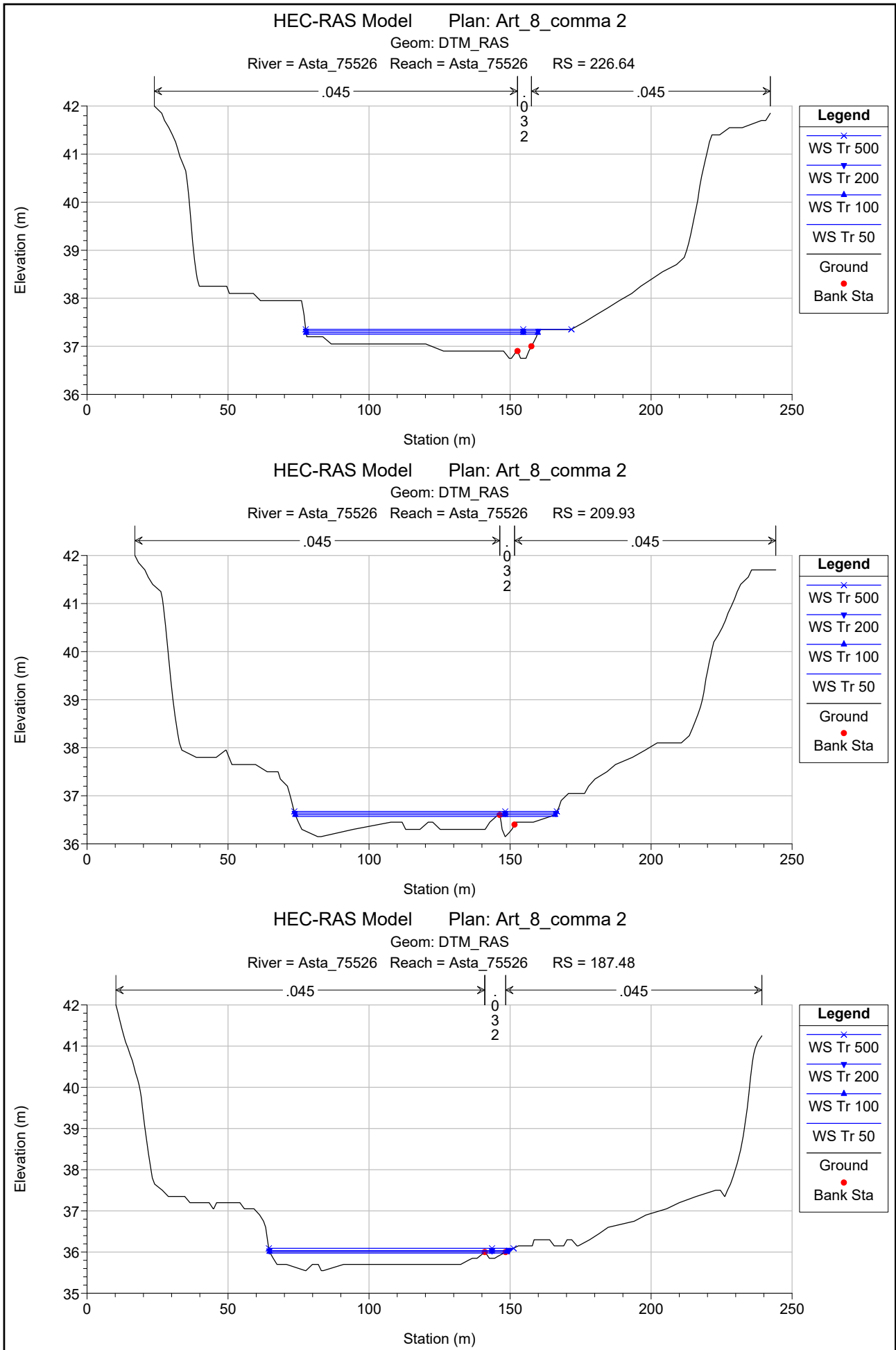


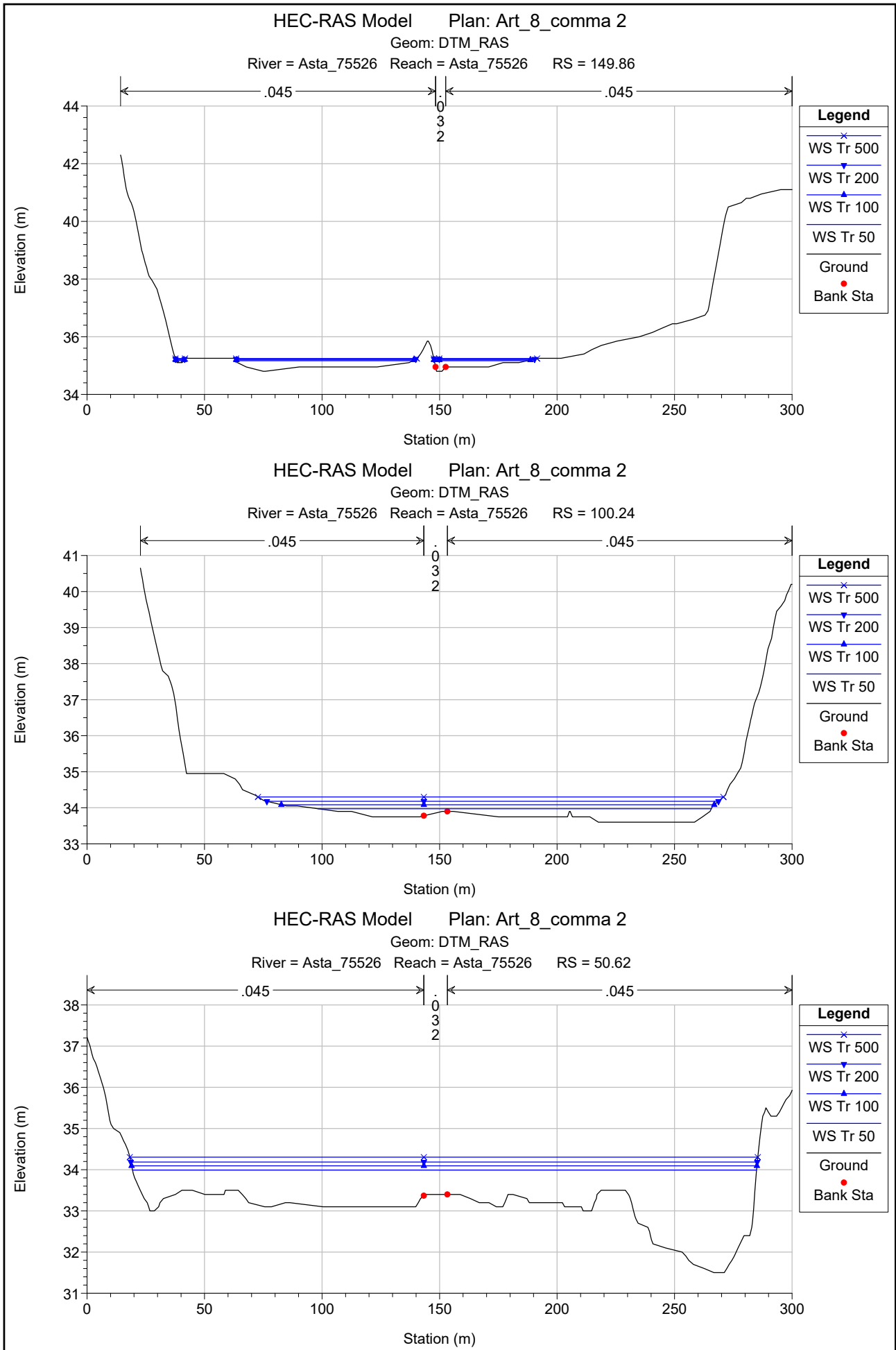








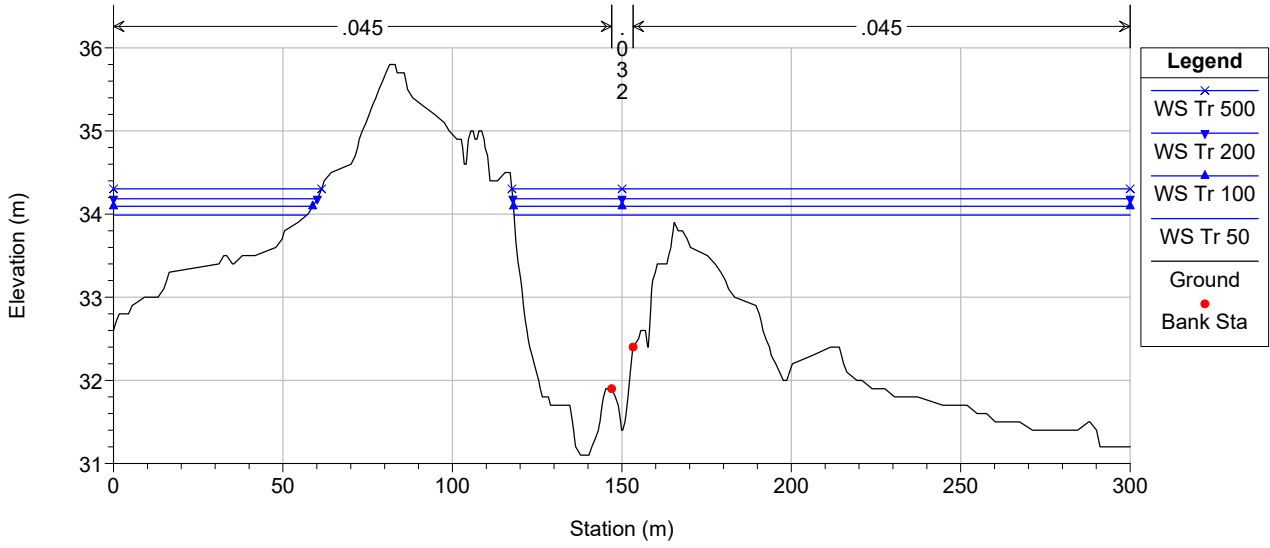




HEC-RAS Model Plan: Art_8_comma 2

Geom: DTM_RAS

River = Asta_75526 Reach = Asta_75526 RS = 1



HEC-RAS Plan: Art_8 comma 2 River: Santina Reach: Santina

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
Santina	2618.67	Tr 50	21.35	58.05	58.62	58.62	58.77	0.013309	1.88	14.49	51.22	0.98
Santina	2618.67	Tr 100	26.19	58.05	58.67	58.67	58.83	0.012468	1.97	17.02	52.44	0.97
Santina	2618.67	Tr 200	31.17	58.05	58.71	58.71	58.89	0.013012	2.12	18.85	53.08	1.00
Santina	2618.67	Tr 500	37.91	58.05	58.76	58.76	58.96	0.012785	2.26	21.60	54.03	1.01
Santina	2593.54	Tr 50	21.35	57.45	58.03	58.03	58.20	0.014746	1.95	12.59	41.30	1.03
Santina	2593.54	Tr 100	26.19	57.45	58.10	58.10	58.27	0.011841	1.96	16.10	49.84	0.94
Santina	2593.54	Tr 200	31.17	57.45	58.15	58.15	58.33	0.011400	2.05	18.40	50.72	0.94
Santina	2593.54	Tr 500	37.91	57.45	58.19	58.19	58.41	0.011803	2.22	20.80	51.61	0.97
Santina	2568.41	Tr 50	21.35	57.00	57.44	57.44	57.59	0.018193	1.97	13.50	46.24	1.11
Santina	2568.41	Tr 100	26.19	57.00	57.49	57.49	57.65	0.017600	2.08	15.64	47.69	1.11
Santina	2568.41	Tr 200	31.17	57.00	58.15		58.17	0.000574	0.71	58.78	80.71	0.24
Santina	2568.41	Tr 500	37.91	57.00	57.59	57.59	57.79	0.015870	2.26	20.75	51.00	1.09
Santina	2543.28	Tr 50	21.35	56.70	57.07		57.17	0.008501	1.49	16.39	54.52	0.78
Santina	2543.28	Tr 100	26.19	56.70	57.06	57.06	57.22	0.013525	1.85	16.08	54.16	0.98
Santina	2543.28	Tr 200	31.17	56.70	58.15		58.16	0.000102	0.40	106.07	106.15	0.11
Santina	2543.28	Tr 500	37.91	56.70	57.16	57.16	57.35	0.012236	2.06	21.59	60.26	0.97
Santina	2517.88	Tr 50	21.35	56.25	56.69	56.69	56.88	0.015667	1.99	11.28	37.49	1.05
Santina	2517.88	Tr 100	26.19	56.25	56.79	56.79	56.94	0.009397	1.81	17.00	61.14	0.85
Santina	2517.88	Tr 200	31.17	56.25	58.15		58.16	0.000056	0.35	123.95	94.22	0.08
Santina	2517.88	Tr 500	37.91	56.25	56.88	56.88	57.07	0.009370	2.05	22.83	63.72	0.88
Santina	2492.45	Tr 50	21.35	55.65	56.35		56.44	0.005066	1.53	18.74	43.04	0.65
Santina	2492.45	Tr 100	26.19	55.65	56.42		56.52	0.004773	1.61	21.91	43.97	0.64
Santina	2492.45	Tr 200	31.17	55.65	58.15		58.15	0.000049	0.39	121.83	73.01	0.08
Santina	2492.45	Tr 500	37.91	55.65	56.57		56.69	0.004537	1.79	28.48	45.68	0.64
Santina	2467.05	Tr 50	21.35	55.20	56.06	56.06	56.25	0.010033	2.56	13.95	34.07	0.94
Santina	2467.05	Tr 100	26.19	55.20	56.11	56.11	56.33	0.010594	2.76	15.89	35.27	0.98
Santina	2467.05	Tr 200	31.17	55.20	55.78	55.78	57.94	0.164795	7.66	5.58	17.09	3.54
Santina	2467.05	Tr 500	37.91	55.20	56.25	56.25	56.50	0.010491	3.05	20.98	38.78	1.00
Santina	2441.41	Tr 50	21.35	54.60	55.06	55.06	55.25	0.020952	2.36	11.34	30.94	1.23
Santina	2441.41	Tr 100	26.19	54.60	55.12	55.12	55.34	0.019500	2.52	13.33	32.90	1.21
Santina	2441.41	Tr 200	31.17	54.60	55.20	55.18	55.42	0.015444	2.53	16.27	35.63	1.11
Santina	2441.41	Tr 500	37.91	54.60	55.26	55.26	55.51	0.016113	2.75	18.25	37.61	1.15
Santina	2415.98	Tr 50	21.35	54.30	54.89		54.96	0.004815	1.45	20.59	49.86	0.63
Santina	2415.98	Tr 100	26.19	54.30	55.09		55.13	0.002228	1.21	30.53	53.40	0.45
Santina	2415.98	Tr 200	31.17	54.30	54.85	54.85	55.04	0.014362	2.37	18.31	48.14	1.07
Santina	2415.98	Tr 500	37.91	54.30	54.91	54.91	55.12	0.013310	2.47	21.53	50.31	1.05
Santina	2390.34	Tr 50	21.35	53.55	54.14	54.14	54.66	0.033425	4.00	8.14	26.89	1.67
Santina	2390.34	Tr 100	26.19	53.55	54.14	54.14	54.91	0.047721	4.82	8.34	27.36	2.00
Santina	2390.34	Tr 200	31.17	53.55	54.45	54.45	54.68	0.010547	2.98	19.04	41.99	1.01
Santina	2390.34	Tr 500	37.91	53.55	54.52	54.52	54.78	0.010450	3.14	22.50	46.48	1.02
Santina	2365.21	Tr 50	21.35	52.65	53.19	53.19	53.40	0.012339	2.22	11.62	27.19	0.99
Santina	2365.21	Tr 100	26.19	52.65	53.26	53.26	53.49	0.011905	2.37	13.45	31.35	0.99
Santina	2365.21	Tr 200	31.17	52.65	53.33	53.33	53.58	0.011365	2.48	15.57	33.45	0.99
Santina	2365.21	Tr 500	37.91	52.65	53.39	53.39	53.68	0.011890	2.70	17.72	35.46	1.03
Santina	2340.08	Tr 50	21.35	51.90	52.27	52.27	52.44	0.021985	2.40	12.55	38.78	1.25
Santina	2340.08	Tr 100	26.19	51.90	52.33	52.33	52.51	0.020645	2.55	14.72	40.55	1.24
Santina	2340.08	Tr 200	31.17	51.90	52.38	52.38	52.58	0.020082	2.70	16.72	42.11	1.25
Santina	2340.08	Tr 500	37.91	51.90	52.44	52.44	52.67	0.019004	2.86	19.49	44.19	1.24
Santina	2314.95	Tr 50	21.35	50.70	51.51	51.51	51.71	0.009116	2.31	13.09	32.07	0.89
Santina	2314.95	Tr 100	26.19	50.70	51.57	51.57	51.80	0.009156	2.46	15.26	33.38	0.91
Santina	2314.95	Tr 200	31.17	50.70	51.63	51.63	51.88	0.009171	2.60	17.39	34.69	0.92
Santina	2314.95	Tr 500	37.91	50.70	51.71	51.71	51.99	0.009465	2.79	19.91	36.24	0.95
Santina	2289.82	Tr 50	21.35	50.10	50.90	50.90	51.12	0.009680	2.37	12.60	29.28	0.92
Santina	2289.82	Tr 100	26.19	50.10	50.97	50.97	51.21	0.009721	2.53	14.63	30.36	0.93
Santina	2289.82	Tr 200	31.17	50.10	51.03	51.03	51.30	0.010024	2.70	16.44	31.42	0.96
Santina	2289.82	Tr 500	37.91	50.10	51.11	51.11	51.41	0.009973	2.87	19.06	33.05	0.97
Santina	2264.69	Tr 50	21.35	49.80	50.33	50.33	50.52	0.013372	2.36	13.31	36.10	1.04
Santina	2264.69	Tr 100	26.19	49.80	50.39	50.39	50.59	0.012975	2.49	15.49	37.41	1.04
Santina	2264.69	Tr 200	31.17	49.80	50.44	50.44	50.66	0.013078	2.64	17.37	38.05	1.06
Santina	2264.69	Tr 500	37.91	49.80	50.51	50.51	50.75	0.013119	2.82	19.78	38.78	1.08
Santina	2239.56	Tr 50	21.35	49.20	49.78	49.78	49.97	0.019605	2.57	11.84	31.63	1.22
Santina	2239.56	Tr 100	26.19	49.20	49.84	49.84	50.05	0.018980	2.74	13.74	33.16	1.22
Santina	2239.56	Tr 200	31.17	49.20	49.90	49.90	50.13	0.017708	2.85	15.84	34.86	1.20
Santina	2239.56	Tr 500	37.91	49.20	49.97	49.97	50.23	0.017155	3.03	18.33	36.76	1.21
Santina	2214.29	Tr 50	21.35	48.60	49.16	49.16	49.34	0.012392	2.32	13.34	36.49	1.00
Santina	2214.29	Tr 100	26.19	48.60	49.22	49.22	49.42	0.012009	2.45	15.67	38.53	1.01
Santina	2214.29	Tr 200	31.17	48.60	49.27	49.27	49.50	0.011805	2.58	17.87	40.13	1.01
Santina	2214.29	Tr 500	37.91	48.60	49.34	49.34	49.59	0.011856	2.75	20.55	41.98	1.03
Santina	2189.02	Tr 50	21.35	47.10	48.30	48.30	48.54	0.007789	2.35	11.87	26.36	0.83
Santina	2189.02	Tr 100	26.19	47.10	48.38	48.38	48.65	0.007959	2.52	13.85	27.00	0.86
Santina	2189.02	Tr 200	31.17	47.10	48.45	48.45	48.74	0.007889	2.65	15.90	27.66	0.86
Santina	2189.02	Tr 500	37.91	47.10	48.53	48.53	48.86	0.008247	2.85	18.13	28.35	0.90

HEC-RAS Plan: Art_8 comma 2 River: Santina Reach: Santina (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
Santina	2163.57	Tr 50	21.35	46.65	47.46	47.46	47.65	0.015308	2.61	12.74	33.67	1.11
Santina	2163.57	Tr 100	26.19	46.65	47.52	47.52	47.72	0.014935	2.76	14.79	34.72	1.11
Santina	2163.57	Tr 200	31.17	46.65	47.57	47.57	47.80	0.014503	2.88	16.83	35.66	1.11
Santina	2163.57	Tr 500	37.91	46.65	47.64	47.64	47.89	0.014529	3.07	19.21	36.59	1.13
Santina	2138.1	Tr 50	21.35	46.50	47.00	47.00	47.15	0.017229	2.23	13.92	45.35	1.12
Santina	2138.1	Tr 100	26.19	46.50	47.04	47.04	47.22	0.016783	2.37	16.07	46.54	1.13
Santina	2138.1	Tr 200	31.17	46.50	47.09	47.09	47.28	0.016141	2.48	18.28	47.74	1.13
Santina	2138.1	Tr 500	37.91	46.50	47.14	47.14	47.35	0.016079	2.65	20.80	48.56	1.14
Santina	2112.65	Tr 50	21.35	45.60	46.17	46.17	46.34	0.010287	1.97	13.28	39.75	0.90
Santina	2112.65	Tr 100	26.19	45.60	46.20	46.20	46.42	0.012137	2.23	14.55	40.98	0.99
Santina	2112.65	Tr 200	31.17	45.60	46.27	46.27	46.49	0.010277	2.24	17.81	45.30	0.93
Santina	2112.65	Tr 500	37.91	45.60	46.35	46.35	46.57	0.009461	2.33	21.33	48.29	0.91
Santina	2087.18	Tr 50	21.35	45.00	45.59	45.59	45.81	0.013679	2.58	12.14	28.71	1.07
Santina	2087.18	Tr 100	26.19	45.00	45.67	45.67	45.89	0.012422	2.67	14.60	33.91	1.04
Santina	2087.18	Tr 200	31.17	45.00	45.73	45.73	45.97	0.012102	2.80	16.90	38.25	1.04
Santina	2087.18	Tr 500	37.91	45.00	45.82	45.82	46.07	0.011437	2.92	20.37	45.48	1.03
Santina	2061.52	Tr 50	21.35	43.80	44.40	44.40	44.62	0.011893	2.33	11.76	27.44	0.99
Santina	2061.52	Tr 100	26.19	43.80	44.47	44.47	44.71	0.011820	2.50	13.60	28.77	1.00
Santina	2061.52	Tr 200	31.17	43.80	44.53	44.53	44.80	0.011709	2.65	15.43	30.05	1.02
Santina	2061.52	Tr 500	37.91	43.80	44.61	44.61	44.91	0.011321	2.81	17.99	32.16	1.02
Santina	2035.86	Tr 50	21.35	42.75	43.40	43.40	43.58	0.010668	2.43	14.57	40.12	0.96
Santina	2035.86	Tr 100	26.19	42.75	43.46	43.46	43.66	0.010862	2.60	16.94	42.55	0.98
Santina	2035.86	Tr 200	31.17	42.75	43.52	43.52	43.73	0.010411	2.69	19.65	44.90	0.98
Santina	2035.86	Tr 500	37.91	42.75	43.58	43.58	43.81	0.010956	2.89	22.29	46.66	1.01
Santina	2010.72	Tr 50	21.35	42.00	42.58	42.58	42.79	0.010784	2.18	11.67	28.58	0.94
Santina	2010.72	Tr 100	26.19	42.00	42.64	42.64	42.89	0.010622	2.33	13.66	32.29	0.95
Santina	2010.72	Tr 200	31.17	42.00	42.71	42.71	42.97	0.010061	2.44	16.07	37.23	0.94
Santina	2010.72	Tr 500	37.91	42.00	42.90	42.90	43.09	0.005488	2.12	24.03	44.73	0.72
Santina	1985.58	Tr 50	21.35	41.40	42.46	42.46	42.47	0.000580	0.78	46.61	68.04	0.24
Santina	1985.58	Tr 100	26.19	41.40	42.49	42.49	42.51	0.000753	0.91	48.99	68.65	0.28
Santina	1985.58	Tr 200	31.17	41.40	42.60	42.60	42.62	0.000707	0.94	56.22	70.48	0.27
Santina	1985.58	Tr 500	37.91	41.40	43.00	43.00	43.02	0.000290	0.73	86.69	77.64	0.18
Santina	1960.43	Tr 50	21.35	41.00	42.46	42.20	42.46	0.000074	0.34	104.77	101.48	0.09
Santina	1960.43	Tr 100	26.19	41.00	42.50	42.20	42.50	0.000101	0.40	108.45	102.26	0.11
Santina	1960.43	Tr 200	31.17	41.00	42.60	42.20	42.61	0.000108	0.43	119.25	105.06	0.11
Santina	1960.43	Tr 500	37.91	41.00	43.01	42.20	43.01	0.000064	0.39	163.89	116.78	0.09
Santina	1937.88	SC_0030 Santina1	Bridge									
Santina	1924.97	Tr 50	21.35	39.00	40.79	40.79	41.66	0.008697	4.13	5.17	35.22	1.00
Santina	1924.97	Tr 100	26.19	39.00	41.05	41.05	42.04	0.008251	4.41	5.94	43.08	1.00
Santina	1924.97	Tr 200	31.17	39.00	41.29	41.29	42.40	0.007922	4.67	6.67	47.32	1.00
Santina	1924.97	Tr 500	37.91	39.00	41.60	41.60	42.87	0.007579	4.98	7.61	52.98	1.00
Santina	1910.01	Tr 50	21.35	38.10	39.39	39.39	39.60	0.006129	2.37	14.76	39.14	0.76
Santina	1910.01	Tr 100	26.19	38.10	39.45	39.45	39.69	0.006655	2.57	17.24	41.60	0.80
Santina	1910.01	Tr 200	31.17	38.10	39.52	39.52	39.77	0.006774	2.70	20.22	45.71	0.81
Santina	1910.01	Tr 500	37.91	38.10	39.63	39.63	39.87	0.006108	2.73	25.70	53.73	0.79
Santina	1884.74	Tr 50	21.35	37.35	38.52	38.52	38.76	0.007996	2.58	12.83	27.96	0.87
Santina	1884.74	Tr 100	26.19	37.35	38.61	38.61	38.86	0.007619	2.69	15.53	30.49	0.86
Santina	1884.74	Tr 200	31.17	37.35	38.66	38.66	38.96	0.008445	2.93	17.19	32.00	0.91
Santina	1884.74	Tr 500	37.91	37.35	38.79	38.79	39.07	0.007322	2.95	21.95	41.31	0.87
Santina	1859.55	Tr 50	21.35	37.05	37.79	37.79	38.00	0.014906	2.89	12.33	29.14	1.13
Santina	1859.55	Tr 100	26.19	37.05	37.85	37.85	38.09	0.014636	3.05	14.34	30.49	1.14
Santina	1859.55	Tr 200	31.17	37.05	37.91	37.91	38.17	0.014665	3.22	16.23	31.80	1.15
Santina	1859.55	Tr 500	37.91	37.05	37.99	37.99	38.27	0.014979	3.45	18.62	33.78	1.18
Santina	1834.36	Tr 50	21.35	36.60	37.18	37.18	37.41	0.014212	2.41	11.69	30.33	1.07
Santina	1834.36	Tr 100	26.19	36.60	37.27	37.27	37.49	0.011696	2.43	14.61	33.74	0.99
Santina	1834.36	Tr 200	31.17	36.60	37.33	37.33	37.58	0.011379	2.56	16.73	35.19	1.00
Santina	1834.36	Tr 500	37.91	36.60	37.41	37.41	37.67	0.010911	2.69	19.51	36.63	0.99
Santina	1809.21	Tr 50	21.35	36.00	36.63	36.63	36.80	0.012451	2.36	14.10	39.45	1.01
Santina	1809.21	Tr 100	26.19	36.00	36.68	36.68	36.87	0.012522	2.51	16.23	40.56	1.03
Santina	1809.21	Tr 200	31.17	36.00	36.73	36.73	36.94	0.013029	2.69	18.07	41.49	1.06
Santina	1809.21	Tr 500	37.91	36.00	36.79	36.79	37.03	0.012846	2.85	20.85	43.16	1.07
Santina	1784.06	Tr 50	21.35	35.55	36.18	36.18	36.34	0.013104	2.48	14.77	43.38	1.04
Santina	1784.06	Tr 100	26.19	35.55	36.22	36.22	36.40	0.013613	2.67	16.89	45.17	1.08
Santina	1784.06	Tr 200	31.17	35.55	36.27	36.27	36.47	0.013850	2.83	19.04	46.92	1.10
Santina	1784.06	Tr 500	37.91	35.55	36.33	36.33	36.55	0.013539	2.97	22.23	52.91	1.10
Santina	1733.42	Tr 50	21.35	34.10	34.66	34.66	34.76	0.008810	1.87	19.70	79.83	0.84
Santina	1733.42	Tr 100	26.19	34.10	34.68	34.68	34.80	0.010635	2.11	21.43	81.12	0.92
Santina	1733.42	Tr 200	31.17	34.10	34.69	34.69	34.85	0.014052	2.44	22.01	81.54	1.07
Santina	1733.42	Tr 500	37.91	34.10	34.76	34.76	34.91	0.011060	2.38	29.11	93.67	0.97
Santina	1708.16	Tr 50	21.35	33.70	34.13	34.13	34.23	0.010290	1.79	19.41	88.34	0.88
Santina	1708.16	Tr 100	26.19	33.70	34.17	34.17	34.28	0.010053	1.88	23.06	95.81	0.88
Santina	1708.16	Tr 200	31.17	33.70	34.22	34.22	34.33	0.008873	1.89	28.52	111.04	0.84

HEC-RAS Plan: Art_8_comma_2 River: Santina Reach: Santina (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
Santina	1708.16	Tr 500	37.91	33.70	34.25	34.25	34.37	0.009758	2.06	31.76	111.86	0.89
Santina	1682.8	Tr 50	21.35	33.20	33.67	33.67	33.77	0.015437	2.10	18.62	83.53	1.06
Santina	1682.8	Tr 100	26.19	33.20	33.70	33.69	33.82	0.016697	2.30	21.48	94.36	1.12
Santina	1682.8	Tr 200	31.17	33.20	33.75	33.75	33.86	0.013774	2.23	25.71	95.49	1.03
Santina	1682.8	Tr 500	37.91	33.20	33.79	33.76	33.90	0.013890	2.35	29.15	96.41	1.05
Santina	1657.44	Tr 50	21.35	32.79	33.31	33.31	33.41	0.011124	2.05	19.41	79.11	0.93
Santina	1657.44	Tr 100	26.19	32.79	33.34	33.34	33.46	0.012324	2.23	21.61	81.61	0.99
Santina	1657.44	Tr 200	31.17	32.79	33.38	33.38	33.50	0.012086	2.31	24.63	84.91	0.99
Santina	1657.44	Tr 500	37.91	32.79	33.40	33.40	33.55	0.013650	2.54	27.10	87.81	1.06
Santina	1632.1	Tr 50	21.35	32.61	32.99	32.92	33.05	0.009935	1.60	21.91	84.43	0.84
Santina	1632.1	Tr 100	26.19	32.61	33.03	32.93	33.09	0.009781	1.70	25.44	94.20	0.85
Santina	1632.1	Tr 200	31.17	32.61	33.06	32.99	33.13	0.010680	1.86	28.19	97.86	0.90
Santina	1632.1	Tr 500	37.91	32.61	33.10	33.00	33.19	0.011112	2.01	32.38	102.76	0.93
Santina	1606.01	Tr 50	21.35	32.30	32.53	32.53	32.64	0.030474	1.57	14.67	71.23	1.28
Santina	1606.01	Tr 100	26.19	32.30	32.56	32.56	32.69	0.028764	1.73	16.96	73.41	1.28
Santina	1606.01	Tr 200	31.17	32.30	32.60	32.60	32.73	0.025242	1.83	19.73	81.75	1.23
Santina	1606.01	Tr 500	37.91	32.30	32.64	32.64	32.78	0.023702	1.97	22.97	83.65	1.23
Santina	1579.92	Tr 50	21.35	31.70	32.26		32.31	0.004692	1.36	25.73	77.78	0.61
Santina	1579.92	Tr 100	26.19	31.70	32.29		32.35	0.005414	1.52	28.09	78.55	0.66
Santina	1579.92	Tr 200	31.17	31.70	32.34		32.40	0.005685	1.65	31.94	87.37	0.69
Santina	1579.92	Tr 500	37.91	31.70	32.38		32.46	0.006087	1.79	35.73	89.51	0.72
Santina	1552.41	Tr 50	21.35	31.30	31.97	31.97	32.09	0.015021	2.38	18.23	81.76	1.08
Santina	1552.41	Tr 100	26.19	31.30	32.03	32.03	32.14	0.012649	2.34	22.94	90.20	1.00
Santina	1552.41	Tr 200	31.17	31.30	32.05	32.05	32.18	0.013875	2.52	25.04	91.03	1.06
Santina	1552.41	Tr 500	37.91	31.30	32.09	32.09	32.22	0.013866	2.63	28.60	92.43	1.07
Santina	1524.9	Tr 50	21.35	30.80	31.29	31.26	31.41	0.012874	1.99	15.41	48.55	0.98
Santina	1524.9	Tr 100	26.19	30.80	31.35	31.31	31.48	0.011378	2.04	18.43	49.61	0.94
Santina	1524.9	Tr 200	31.17	30.80	31.35	31.35	31.53	0.015261	2.39	18.77	49.73	1.09
Santina	1524.9	Tr 500	37.91	30.80	31.49		31.63	0.009021	2.16	25.60	52.75	0.87
Santina	1503.21	Tr 50	21.35	30.20	30.83	30.83	31.05	0.012280	2.12	10.58	25.31	0.98
Santina	1503.21	Tr 100	26.19	30.20	30.89	30.89	31.15	0.011650	2.26	12.33	26.18	0.97
Santina	1503.21	Tr 200	31.17	30.20	31.04	30.95	31.25	0.007143	2.07	16.63	36.47	0.79
Santina	1503.21	Tr 500	37.91	30.20	31.05	31.05	31.35	0.010066	2.48	16.98	37.22	0.94
Santina	1481.52	Tr 50	21.35	30.00	30.56	30.56	30.77	0.012662	2.35	11.92	29.53	1.01
Santina	1481.52	Tr 100	26.19	30.00	30.65	30.65	30.87	0.011471	2.47	14.70	32.43	0.99
Santina	1481.52	Tr 200	31.17	30.00	30.59	30.59	30.98	0.022582	3.24	12.73	30.57	1.37
Santina	1481.52	Tr 500	37.91	30.00	30.79	30.79	31.06	0.011323	2.80	19.45	37.73	1.02
Santina	1457.25	Tr 50	21.35	29.70	30.16	30.16	30.37	0.013733	2.01	10.61	25.94	1.01
Santina	1457.25	Tr 100	26.19	29.70	30.23	30.23	30.46	0.013143	2.13	12.30	26.76	1.00
Santina	1457.25	Tr 200	31.17	29.70	30.29	30.29	30.54	0.012686	2.23	13.96	27.55	1.00
Santina	1457.25	Tr 500	37.91	29.70	30.37	30.37	30.65	0.011598	2.34	16.43	32.93	0.98
Santina	1432.98	Tr 50	21.35	29.00	29.81		29.89	0.004399	1.75	18.98	33.31	0.63
Santina	1432.98	Tr 100	26.19	29.00	29.84		29.95	0.005534	2.02	20.14	33.73	0.71
Santina	1432.98	Tr 200	31.17	29.00	29.87		30.01	0.006859	2.29	21.06	34.05	0.80
Santina	1432.98	Tr 500	37.91	29.00	29.90		30.08	0.008809	2.66	22.07	34.41	0.91
Santina	1419.59	Tr 50	21.35	28.61	29.85		29.85	0.000182	0.47	66.45	69.98	0.14
Santina	1419.59	Tr 100	26.19	28.61	29.89		29.90	0.000247	0.57	70.31	84.43	0.16
Santina	1419.59	Tr 200	31.17	28.61	29.94		29.95	0.000309	0.65	73.93	86.75	0.18
Santina	1419.59	Tr 500	37.91	28.61	29.99		30.00	0.000394	0.75	78.59	89.65	0.21
Santina	1395.05	Tr 50	21.35	29.57	29.74	29.74	29.84	0.026760	1.19	15.38	73.26	1.13
Santina	1395.05	Tr 100	26.19	29.57	29.76	29.76	29.88	0.029373	1.42	17.15	76.53	1.23
Santina	1395.05	Tr 200	31.17	29.57	29.79	29.79	29.92	0.026972	1.59	19.96	81.43	1.22
Santina	1395.05	Tr 500	37.91	29.57	29.83	29.83	29.98	0.026948	1.80	22.97	86.73	1.26
Santina	1364.45	Tr 50	21.35	27.90	28.37	28.37	28.51	0.013680	2.10	15.48	51.93	1.02
Santina	1364.45	Tr 100	26.19	27.90	28.41	28.41	28.57	0.014437	2.28	17.39	52.08	1.06
Santina	1364.45	Tr 200	31.17	27.90	28.45	28.45	28.62	0.014778	2.42	19.33	52.25	1.08
Santina	1364.45	Tr 500	37.91	27.90	28.50	28.50	28.69	0.014265	2.55	22.18	55.41	1.08
Santina	1334.95	Tr 50	21.35	27.10	27.77	27.77	27.93	0.009311	2.22	15.79	45.99	0.89
Santina	1334.95	Tr 100	26.19	27.10	27.82	27.82	27.99	0.009421	2.35	18.26	49.85	0.91
Santina	1334.95	Tr 200	31.17	27.10	27.86	27.86	28.06	0.010330	2.55	20.08	50.84	0.96
Santina	1334.95	Tr 500	37.91	27.10	27.94	27.94	28.13	0.009268	2.58	24.27	58.10	0.92
Santina	1305.49	Tr 50	21.35	26.70	27.22	27.22	27.37	0.010958	2.08	14.94	45.27	0.93
Santina	1305.49	Tr 100	26.19	26.70	27.27	27.27	27.44	0.011060	2.22	17.11	45.52	0.95
Santina	1305.49	Tr 200	31.17	26.70	27.31	27.31	27.50	0.011592	2.38	18.93	45.72	0.98
Santina	1305.49	Tr 500	37.91	26.70	27.37	27.37	27.58	0.011543	2.52	21.59	46.04	1.00
Santina	1278.29	Tr 50	21.35	26.20	26.77	26.77	26.92	0.009878	1.99	15.06	45.48	0.88
Santina	1278.29	Tr 100	26.19	26.20	26.82	26.82	26.99	0.009869	2.12	17.36	45.70	0.90
Santina	1278.29	Tr 200	31.17	26.20	26.86	26.86	27.05	0.010450	2.28	19.16	45.87	0.93
Santina	1278.29	Tr 500	37.91	26.20	26.92	26.92	27.13	0.010774	2.45	21.64	46.20	0.96
Santina	1251.13	Tr 50	21.35	25.65	26.21	26.21	26.36	0.009719	1.85	14.27	51.53	0.86
Santina	1251.13	Tr 100	26.19	25.65	26.27	26.27	26.43	0.008928	1.92	17.48	55.37	0.85
Santina	1251.13	Tr 200	31.17	25.65	26.31	26.31	26.49	0.008797	2.02	20.08	56.04	0.85

HEC-RAS Plan: Art_8_comma 2 River: Santina Reach: Santina (Continued)

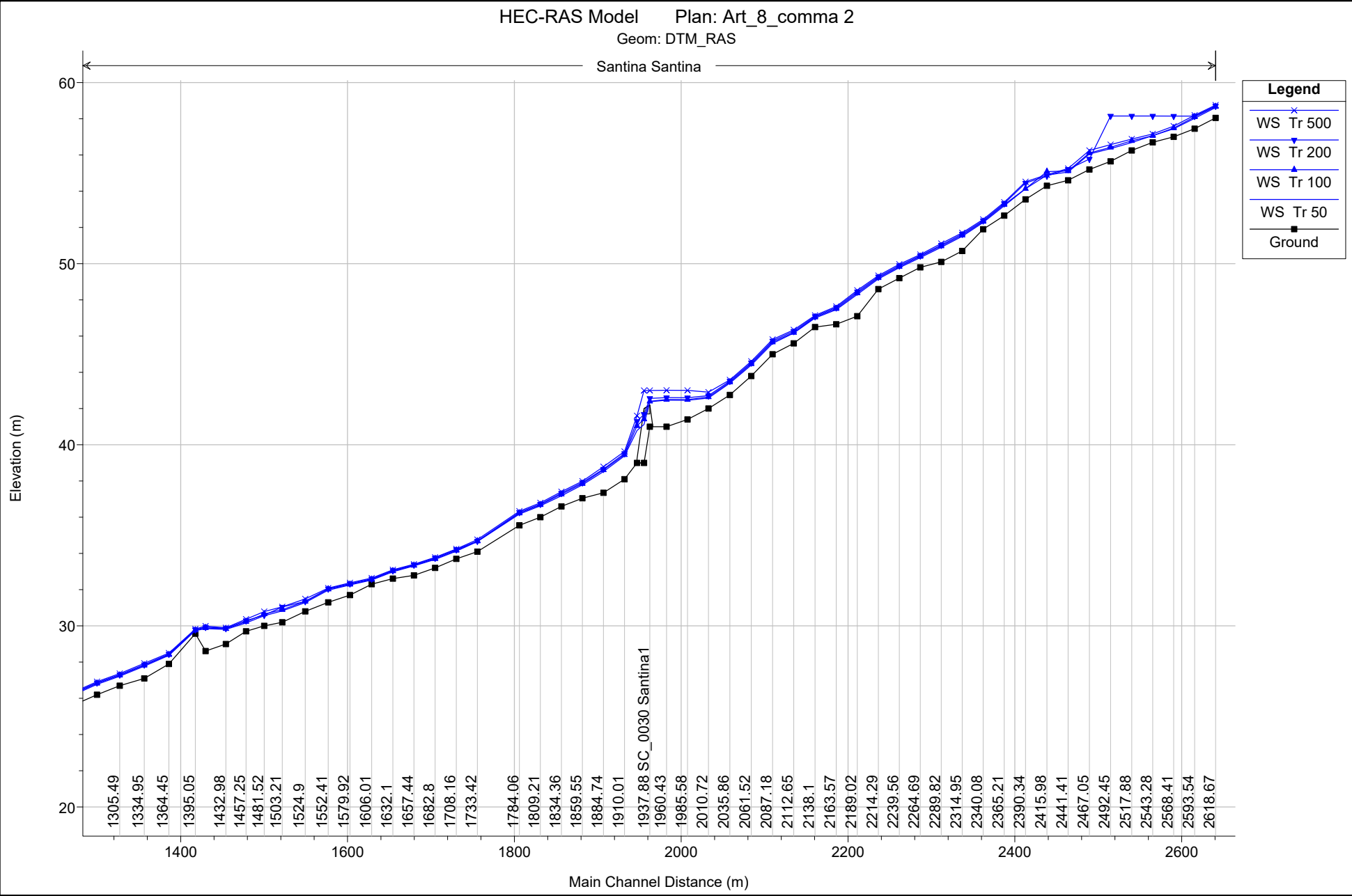
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Santina	1251.13	Tr 500	37.91	25.65	26.37	26.36	28.56	0.008382	2.11	23.63	56.95	0.85
Santina	1225.24	Tr 50	21.35	25.20	25.95	25.95	26.12	0.008562	2.17	15.16	44.15	0.86
Santina	1225.24	Tr 100	26.19	25.20	26.01	26.01	26.19	0.008730	2.32	17.67	45.53	0.88
Santina	1225.24	Tr 200	31.17	25.20	26.06	26.06	26.26	0.008902	2.45	20.01	46.75	0.90
Santina	1225.24	Tr 500	37.91	25.20	26.12	26.12	26.34	0.009012	2.60	23.01	48.23	0.92
Santina	1200.71	Tr 50	21.35	24.45	24.99	24.99	25.17	0.013028	2.15	12.85	35.15	1.00
Santina	1200.71	Tr 100	26.19	24.45	25.05	25.05	25.25	0.012709	2.29	14.82	35.61	1.01
Santina	1200.71	Tr 200	31.17	24.45	25.10	25.10	25.33	0.012686	2.43	16.64	36.07	1.02
Santina	1200.71	Tr 500	37.91	24.45	25.17	25.17	25.42	0.012391	2.58	19.07	36.69	1.03
Santina	1174.83	Tr 50	21.35	23.55	24.51	24.51	24.70	0.007856	2.08	13.50	38.95	0.82
Santina	1174.83	Tr 100	26.19	23.55	24.57	24.57	24.78	0.008024	2.23	15.85	39.96	0.84
Santina	1174.83	Tr 200	31.17	23.55	24.62	24.62	24.85	0.008152	2.36	18.09	40.85	0.86
Santina	1174.83	Tr 500	37.91	23.55	24.69	24.69	24.95	0.008228	2.51	20.95	41.92	0.87
Santina	1148.65	Tr 50	21.35	22.80	24.17		24.31	0.003533	1.73	14.85	28.69	0.58
Santina	1148.65	Tr 100	26.19	22.80	24.26		24.42	0.003613	1.86	17.64	31.88	0.59
Santina	1148.65	Tr 200	31.17	22.80	24.35		24.52	0.003541	1.95	20.69	34.07	0.59
Santina	1148.65	Tr 500	37.91	22.80	24.47		24.65	0.003455	2.06	24.75	37.17	0.60
Santina	1122.47	Tr 50	21.35	22.80	24.12		24.21	0.002922	1.56	18.75	30.76	0.52
Santina	1122.47	Tr 100	26.19	22.80	24.22		24.32	0.002961	1.67	21.77	32.99	0.54
Santina	1122.47	Tr 200	31.17	22.80	24.31		24.42	0.003002	1.79	24.91	39.46	0.55
Santina	1122.47	Tr 500	37.91	22.80	24.42		24.55	0.003057	1.93	30.17	52.17	0.56
Santina	1097.72	Tr 50	21.35	23.00	23.85	23.85	24.07	0.009511	2.32	11.96	26.30	0.91
Santina	1097.72	Tr 100	26.19	23.00	23.90	23.90	24.17	0.010357	2.55	13.45	27.11	0.96
Santina	1097.72	Tr 200	31.17	23.00	23.97	23.97	24.27	0.010280	2.71	15.51	29.89	0.97
Santina	1097.72	Tr 500	37.91	23.00	24.06	24.06	24.39	0.010256	2.91	18.36	34.66	0.99
Santina	1072.97	Tr 50	21.35	20.90	22.24		22.45	0.005938	1.99	10.71	13.78	0.72
Santina	1072.97	Tr 100	26.19	20.90	22.33		22.58	0.006663	2.19	11.94	14.51	0.77
Santina	1072.97	Tr 200	31.17	20.90	22.39	22.27	22.69	0.007847	2.43	12.83	15.14	0.84
Santina	1072.97	Tr 500	37.91	20.90	22.47	22.42	22.84	0.009299	2.71	14.22	20.55	0.92
Santina	1046.57	Tr 50	21.35	20.20	22.32		22.36	0.000671	0.94	32.76	58.70	0.26
Santina	1046.57	Tr 100	26.19	20.20	22.43		22.47	0.000774	1.06	39.83	89.98	0.29
Santina	1046.57	Tr 200	31.17	20.20	22.53		22.57	0.000752	1.10	49.60	103.45	0.29
Santina	1046.57	Tr 500	37.91	20.20	22.66		22.70	0.000659	1.09	63.10	106.26	0.27
Santina	1020.17	Tr 50	21.35	21.30	22.05	22.05	22.29	0.011199	2.30	10.68	22.92	0.96
Santina	1020.17	Tr 100	26.19	21.30	22.12	22.12	22.40	0.010833	2.46	12.46	24.10	0.97
Santina	1020.17	Tr 200	31.17	21.30	22.20	22.20	22.50	0.010447	2.59	14.26	25.14	0.97
Santina	1020.17	Tr 500	37.91	21.30	22.29	22.29	22.62	0.010038	2.74	16.65	26.71	0.97
Santina	1004.49	Tr 50	21.35	20.30	21.32	21.32	21.54	0.009134	2.29	12.50	30.69	0.89
Santina	1004.49	Tr 100	26.19	20.30	21.40	21.40	21.64	0.008994	2.43	14.85	33.77	0.90
Santina	1004.49	Tr 200	31.17	20.30	21.47	21.47	21.73	0.008984	2.57	17.26	37.58	0.91
Santina	1004.49	Tr 500	37.91	20.30	21.57	21.57	21.82	0.007679	2.58	21.54	41.17	0.86
Santina	977.61	Tr 50	21.35	19.32	20.36	20.36	20.45	0.007032	1.75	23.32	108.70	0.75
Santina	977.61	Tr 100	26.19	19.32	20.38	20.38	20.49	0.007834	1.91	26.22	110.00	0.80
Santina	977.61	Tr 200	31.17	19.32	20.41	20.41	20.52	0.008071	2.00	29.55	111.36	0.82
Santina	977.61	Tr 500	37.91	19.32	20.45	20.45	20.57	0.008490	2.14	33.66	114.85	0.85
Santina	951.56	Tr 50	21.35	18.81	19.91	19.91	20.02	0.008647	1.85	20.61	92.44	0.82
Santina	951.56	Tr 100	26.19	18.81	19.96	19.96	20.06	0.007924	1.86	24.98	95.64	0.80
Santina	951.56	Tr 200	31.17	18.81	19.96	19.96	20.10	0.010338	2.14	25.74	96.04	0.91
Santina	951.56	Tr 500	37.91	18.81	20.00	20.00	20.15	0.011165	2.31	28.93	100.52	0.96
Santina	923.49	Tr 50	21.35	18.84	19.43	19.43	19.54	0.015095	2.26	18.72	87.93	1.07
Santina	923.49	Tr 100	26.19	18.84	19.47	19.47	19.58	0.014640	2.36	22.53	96.63	1.07
Santina	923.49	Tr 200	31.17	18.84	19.50	19.50	19.62	0.015199	2.49	25.12	98.94	1.10
Santina	923.49	Tr 500	37.91	18.84	19.54	19.54	19.67	0.014831	2.58	29.08	102.87	1.10
Santina	897.45	Tr 50	21.35	18.50	18.80	18.80	18.86	0.010060	1.18	21.18	76.18	0.78
Santina	897.45	Tr 100	26.19	18.50	18.80	18.80	18.88	0.015138	1.45	21.18	76.18	0.96
Santina	897.45	Tr 200	31.17	18.50	18.80	18.80	18.91	0.021442	1.72	21.18	76.18	1.14
Santina	897.45	Tr 500	37.91	18.50	18.82	18.82	18.97	0.026213	1.99	22.42	76.25	1.28
Santina	869.39	Tr 50	21.35	17.70	18.02	18.02	18.16	0.023466	2.00	13.41	53.40	1.23
Santina	869.39	Tr 100	26.19	17.70	18.07	18.07	18.22	0.021335	2.14	16.20	59.13	1.20
Santina	869.39	Tr 200	31.17	17.70	18.09	18.09	18.28	0.023041	2.35	17.94	62.43	1.27
Santina	869.39	Tr 500	37.91	17.70	18.18	18.18	18.35	0.017653	2.36	23.51	72.79	1.15
Santina	844.56	Tr 50	21.35	15.90	17.09	17.09	17.28	0.007260	2.09	14.37	40.24	0.79
Santina	844.56	Tr 100	26.19	15.90	17.16	17.16	17.35	0.007347	2.21	17.00	41.61	0.80
Santina	844.56	Tr 200	31.17	15.90	17.23	17.23	17.43	0.007168	2.30	20.17	47.20	0.80
Santina	844.56	Tr 500	37.91	15.90	17.29	17.29	17.52	0.007667	2.48	23.08	49.15	0.84
Santina	819.73	Tr 50	21.35	15.40	16.73	16.73	16.94	0.006693	2.21	14.51	43.73	0.77
Santina	819.73	Tr 100	26.19	15.40	16.81	16.81	17.02	0.006391	2.29	18.28	50.65	0.76
Santina	819.73	Tr 200	31.17	15.40	16.89	16.89	17.09	0.006110	2.36	22.28	59.22	0.76
Santina	819.73	Tr 500	37.91	15.40	16.97	16.97	17.17	0.005784	2.42	27.49	66.03	0.74
Santina	794.54	Tr 50	21.35	14.30	15.85	15.85	16.28	0.011786	2.88	7.42	8.86	1.00
Santina	794.54	Tr 100	26.19	14.30	16.13	16.13	16.37	0.007947	2.28	14.83	41.19	0.82
Santina	794.54	Tr 200	31.17	14.30	16.22	16.22	16.45	0.007255	2.31	18.67	48.98	0.80

HEC-RAS Plan: Art_8_comma 2 River: Santina Reach: Santina (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
Santina	794.54	Tr 500	37.91	14.30	16.31	16.31	16.54	0.006410	2.33	23.74	58.51	0.76
Santina	769.35	Tr 50	21.35	13.80	15.12	15.12	15.44	0.012724	2.52	8.48	14.42	1.02
Santina	769.35	Tr 100	26.19	13.80	15.22	15.22	15.58	0.011523	2.65	10.04	16.83	1.00
Santina	769.35	Tr 200	31.17	13.80	15.35	15.35	15.69	0.009034	2.63	12.87	26.06	0.91
Santina	769.35	Tr 500	37.91	13.80	15.48	15.48	15.83	0.007656	2.66	16.76	32.60	0.85
Santina	743.98	Tr 50	21.35	13.90	14.72	14.72	14.91	0.010050	2.13	13.62	40.57	0.91
Santina	743.98	Tr 100	26.19	13.90	14.80	14.80	14.99	0.008763	2.17	16.96	44.57	0.87
Santina	743.98	Tr 200	31.17	13.90	14.85	14.85	15.06	0.009118	2.32	19.03	45.33	0.89
Santina	743.98	Tr 500	37.91	13.90	14.91	14.91	15.14	0.009523	2.50	21.62	46.33	0.92
Santina	718.61	Tr 50	21.35	13.00	14.09	14.09	14.24	0.008644	2.34	17.21	56.24	0.85
Santina	718.61	Tr 100	26.19	13.00	14.33	14.33	14.38	0.002654	1.54	31.00	62.01	0.49
Santina	718.61	Tr 200	31.17	13.00	14.18	14.18	14.35	0.009299	2.61	22.36	58.58	0.89
Santina	718.61	Tr 500	37.91	13.00	14.24	14.24	14.42	0.009522	2.75	25.56	59.68	0.91
Santina	691.82	Tr 50	21.35	12.80	13.90	13.90	13.92	0.000816	0.78	42.26	70.72	0.27
Santina	691.82	Tr 100	26.19	12.80	14.35	14.35	14.35	0.000230	0.55	76.96	86.46	0.15
Santina	691.82	Tr 200	31.17	12.80	13.70	13.70	13.76	0.005405	1.67	28.55	56.51	0.66
Santina	691.82	Tr 500	37.91	12.80	13.76	13.76	13.84	0.005532	1.80	32.37	63.65	0.68
Santina	666.48	Tr 50	21.35	12.60	13.90	13.90	13.90	0.000313	0.58	62.19	89.05	0.18
Santina	666.48	Tr 100	26.19	12.60	14.34	14.34	14.35	0.000107	0.43	106.16	108.16	0.11
Santina	666.48	Tr 200	31.17	12.60	13.63	13.63	13.67	0.002225	1.29	39.99	74.55	0.45
Santina	666.48	Tr 500	37.91	12.60	13.68	13.68	13.73	0.002515	1.43	44.26	78.86	0.48
Santina	639.7	Tr 50	21.35	12.10	13.89	13.89	13.90	0.000128	0.47	79.71	80.49	0.12
Santina	639.7	Tr 100	26.19	12.10	14.34	14.34	14.35	0.000062	0.39	118.29	90.88	0.09
Santina	639.7	Tr 200	31.17	12.10	13.61	13.61	13.63	0.000674	0.94	58.01	73.63	0.26
Santina	639.7	Tr 500	37.91	12.10	13.66	13.66	13.69	0.000830	1.07	61.87	74.86	0.30
Santina	614.37	Tr 50	21.35	11.80	13.89	13.89	13.90	0.000061	0.39	87.88	62.71	0.09
Santina	614.37	Tr 100	26.19	11.80	14.34	14.34	14.34	0.000041	0.36	117.51	69.24	0.07
Santina	614.37	Tr 200	31.17	11.80	13.61	13.61	13.62	0.000243	0.70	70.59	58.40	0.17
Santina	614.37	Tr 500	37.91	11.80	13.66	13.66	13.67	0.000320	0.82	73.52	59.07	0.20
Santina	589.98	Tr 50	21.35	11.60	13.89	13.89	13.89	0.000041	0.33	108.65	72.32	0.07
Santina	589.98	Tr 100	26.19	11.60	14.34	14.34	14.34	0.000029	0.31	143.40	83.07	0.06
Santina	589.98	Tr 200	31.17	11.60	13.60	13.60	13.61	0.000152	0.57	88.78	66.03	0.13
Santina	589.98	Tr 500	37.91	11.60	13.65	13.65	13.66	0.000203	0.68	92.07	67.18	0.16
Santina	565.59	Tr 50	21.35	11.38	13.89	13.89	13.89	0.000037	0.33	109.91	71.89	0.07
Santina	565.59	Tr 100	26.19	11.38	14.34	14.34	14.34	0.000027	0.31	144.80	82.57	0.06
Santina	565.59	Tr 200	31.17	11.38	13.60	13.60	13.61	0.000135	0.57	90.08	65.17	0.13
Santina	565.59	Tr 500	37.91	11.38	13.65	13.65	13.66	0.000182	0.67	93.24	66.14	0.15
Santina	540.56	Tr 50	21.35	11.19	13.89	13.89	13.89	0.000036	0.34	118.71	85.21	0.07
Santina	540.56	Tr 100	26.19	11.19	14.34	14.34	14.34	0.000024	0.31	160.30	96.57	0.06
Santina	540.56	Tr 200	31.17	11.19	13.60	13.60	13.61	0.000140	0.62	95.19	76.90	0.13
Santina	540.56	Tr 500	37.91	11.19	13.64	13.64	13.65	0.000186	0.72	98.84	77.83	0.15
Santina	522.99	Tr 50	21.35	11.81	13.89	13.20	13.89	0.000024	0.22	147.77	109.24	0.05
Santina	522.99	Tr 100	26.19	11.81	14.34	13.20	14.34	0.000015	0.21	201.34	125.77	0.04
Santina	522.99	Tr 200	31.17	11.81	13.60	13.20	13.60	0.000103	0.41	116.97	101.20	0.11
Santina	522.99	Tr 500	37.91	11.81	13.65	13.20	13.65	0.000135	0.48	121.80	102.58	0.12
Santina	514	SC_0005 Santina4	Bridge									
Santina	508.48	Tr 50	21.35	10.74	12.78	12.78	13.79	0.007990	4.44	4.81	90.05	1.00
Santina	508.48	Tr 100	26.19	10.74	13.08	13.08	14.23	0.007597	4.74	5.52	96.06	1.00
Santina	508.48	Tr 200	31.17	10.74	13.20	13.20	13.20	0.000027	0.29	171.26	104.15	0.06
Santina	508.48	Tr 500	37.91	10.74	13.20	13.20	13.21	0.000041	0.35	171.26	104.15	0.07
Santina	490.47	Tr 50	21.35	10.31	10.91	10.91	11.05	0.010688	1.88	15.33	51.63	0.90
Santina	490.47	Tr 100	26.19	10.31	10.94	10.94	11.11	0.011947	2.09	17.05	52.88	0.96
Santina	490.47	Tr 200	31.17	10.31	11.00	11.00	11.17	0.010895	2.15	20.32	60.20	0.94
Santina	490.47	Tr 500	37.91	10.31	11.06	11.06	11.24	0.010187	2.23	24.13	64.92	0.92
Santina	465.43	Tr 50	21.35	10.01	10.00	10.00	10.01	0.002734	0.18	37.83	111.67	0.00
Santina	465.43	Tr 100	26.19	10.01	10.04	10.04	10.06	0.002943	0.10	43.21	136.35	0.27
Santina	465.43	Tr 200	31.17	10.01	10.08	10.08	10.10	0.002906	0.18	48.87	143.75	0.31
Santina	465.43	Tr 500	37.91	10.01	10.13	10.13	10.16	0.002816	0.30	56.52	149.40	0.35
Santina	440.41	Tr 50	21.35	9.80	9.87	9.87	9.91	0.006965	0.39	25.34	113.85	0.52
Santina	440.41	Tr 100	26.19	9.80	9.91	9.91	9.95	0.006544	0.55	30.64	125.26	0.55
Santina	440.41	Tr 200	31.17	9.80	9.95	9.95	9.99	0.006166	0.67	35.98	129.95	0.57
Santina	440.41	Tr 500	37.91	9.80	10.01	10.01	10.05	0.006403	0.86	43.69	139.44	0.61
Santina	413.75	Tr 50	21.35	9.40	9.78	9.78	9.79	0.002513	0.82	38.00	123.96	0.42
Santina	413.75	Tr 100	26.19	9.40	9.83	9.83	9.85	0.002395	0.86	44.20	126.28	0.42
Santina	413.75	Tr 200	31.17	9.40	9.87	9.87	9.89	0.002387	0.92	49.58	127.89	0.43
Santina	413.75	Tr 500	37.91	9.40	9.92	9.92	9.95	0.002340	0.98	56.68	129.91	0.43
Santina	387.12	Tr 50	21.35	9.00	9.69	9.53	9.72	0.003443	1.07	31.05	86.72	0.51
Santina	387.12	Tr 100	26.19	9.00	9.73	9.56	9.77	0.003489	1.15	35.04	87.04	0.52
Santina	387.12	Tr 200	31.17	9.00	9.77	9.58	9.81	0.003677	1.24	38.36	87.30	0.54
Santina	387.12	Tr 500	37.91	9.00	9.82	9.62	9.87	0.003781	1.34	42.87	87.69	0.56
Santina	361.14	Tr 50	21.35	8.90	9.50	9.47	9.58	0.007853	1.72	21.70	80.97	0.78

HEC-RAS Plan: Art_8_comma 2 River: Santina Reach: Santina (Continued)

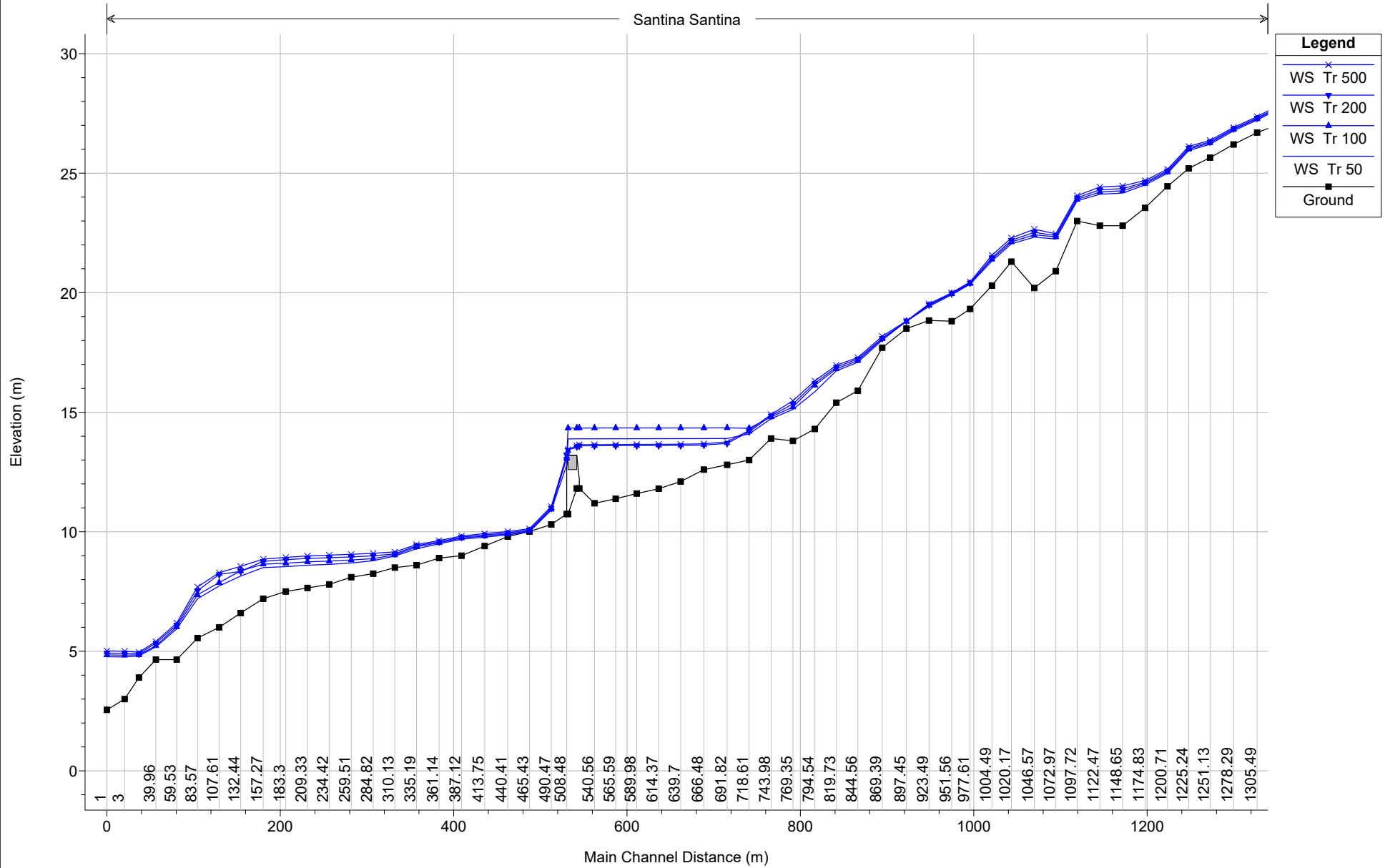
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Santina	361.14	Tr 100	26.19	8.90	9.54	9.51	9.63	0.007867	1.81	24.90	81.63	0.79
Santina	361.14	Tr 200	31.17	8.90	9.58	9.53	9.67	0.007665	1.87	28.19	82.29	0.79
Santina	361.14	Tr 500	37.91	8.90	9.63	9.57	9.73	0.007418	1.95	32.40	83.14	0.79
Santina	335.19	Tr 50	21.35	8.60	9.29	9.20	9.36	0.008772	2.04	20.89	72.53	0.85
Santina	335.19	Tr 100	26.19	8.60	9.37	9.27	9.43	0.006609	1.93	26.98	74.22	0.75
Santina	335.19	Tr 200	31.17	8.60	9.42	9.30	9.48	0.006348	1.98	30.49	74.75	0.75
Santina	335.19	Tr 500	37.91	8.60	9.46	9.30	9.54	0.006568	2.10	34.12	75.27	0.77
Santina	310.13	Tr 50	21.35	8.50	8.99	8.94	9.11	0.010770	2.01	15.65	43.94	0.92
Santina	310.13	Tr 100	26.19	8.50	9.03	8.98	9.19	0.013825	2.41	17.97	61.79	1.06
Santina	310.13	Tr 200	31.17	8.50	9.08	8.98	9.25	0.013673	2.53	21.07	69.23	1.06
Santina	310.13	Tr 500	37.91	8.50	9.16	8.98	9.32	0.011755	2.56	26.99	76.84	1.01
Santina	284.82	Tr 50	21.35	8.25	8.79	8.71	8.88	0.006998	1.73	19.56	60.55	0.75
Santina	284.82	Tr 100	26.19	8.25	8.88	8.76	8.96	0.005246	1.67	25.53	68.04	0.67
Santina	284.82	Tr 200	31.17	8.25	8.99	8.81	9.06	0.003434	1.50	33.38	70.76	0.56
Santina	284.82	Tr 500	37.91	8.25	9.10	8.88	9.16	0.002760	1.47	40.95	72.42	0.51
Santina	259.51	Tr 50	21.35	8.10	8.69	8.51	8.74	0.004012	1.39	23.94	53.02	0.58
Santina	259.51	Tr 100	26.19	8.10	8.82	8.56	8.86	0.002759	1.31	30.61	53.95	0.50
Santina	259.51	Tr 200	31.17	8.10	8.95	8.59	8.99	0.002003	1.25	37.77	55.00	0.43
Santina	259.51	Tr 500	37.91	8.10	9.06	8.64	9.10	0.001861	1.31	43.80	56.14	0.43
Santina	234.42	Tr 50	21.35	7.80	8.64	8.31	8.67	0.001696	1.14	28.89	45.64	0.40
Santina	234.42	Tr 100	26.19	7.80	8.77	8.36	8.81	0.001388	1.14	35.20	46.91	0.37
Santina	234.42	Tr 200	31.17	7.80	8.91	8.41	8.95	0.001162	1.14	41.84	48.46	0.35
Santina	234.42	Tr 500	37.91	7.80	9.02	8.46	9.06	0.001204	1.24	47.14	50.02	0.36
Santina	209.33	Tr 50	21.35	7.65	8.60	8.16	8.63	0.001332	1.10	29.02	39.86	0.36
Santina	209.33	Tr 100	26.19	7.65	8.74	8.21	8.78	0.001174	1.13	34.77	42.00	0.35
Santina	209.33	Tr 200	31.17	7.65	8.88	8.27	8.92	0.001025	1.15	40.88	43.52	0.33
Santina	209.33	Tr 500	37.91	7.65	8.99	8.33	9.03	0.001103	1.26	45.50	44.67	0.35
Santina	183.3	Tr 50	21.35	7.50	8.54	8.12	8.59	0.001780	1.35	23.95	32.96	0.42
Santina	183.3	Tr 100	26.19	7.50	8.68	8.19	8.74	0.001569	1.39	28.83	34.46	0.41
Santina	183.3	Tr 200	31.17	7.50	8.83	8.25	8.89	0.001384	1.41	34.03	36.15	0.39
Santina	183.3	Tr 500	37.91	7.50	8.93	8.35	9.00	0.001557	1.56	37.57	37.66	0.42
Santina	157.27	Tr 50	21.35	7.20	8.50		8.56	0.001225	1.27	24.24	28.33	0.36
Santina	157.27	Tr 100	26.19	7.20	8.64		8.70	0.001192	1.34	28.40	29.73	0.36
Santina	157.27	Tr 200	31.17	7.20	8.77		8.85	0.001511	1.60	32.84	42.06	0.41
Santina	157.27	Tr 500	37.91	7.20	8.86		8.95	0.001667	1.75	36.75	43.46	0.44
Santina	132.44	Tr 50	21.35	6.60	8.15	8.02	8.47	0.007062	2.51	9.08	17.64	0.80
Santina	132.44	Tr 100	26.19	6.60	8.36	8.26	8.63	0.004883	2.37	13.80	29.46	0.69
Santina	132.44	Tr 200	31.17	6.60	8.34	8.34	8.74	0.007390	2.89	13.27	28.18	0.84
Santina	132.44	Tr 500	37.91	6.60	8.55	8.55	8.86	0.005090	2.67	20.88	40.92	0.72
Santina	107.61	Tr 50	21.35	6.00	7.73	7.73	8.22	0.012032	3.10	6.92	7.79	1.02
Santina	107.61	Tr 100	26.19	6.00	7.88	7.88	8.43	0.011234	3.29	8.11	8.77	1.00
Santina	107.61	Tr 200	31.17	6.00	8.21	8.21	8.47	0.004340	2.45	19.88	42.56	0.65
Santina	107.61	Tr 500	37.91	6.00	8.29	8.29	8.57	0.004749	2.65	23.03	42.79	0.69
Santina	83.57	Tr 50	21.35	5.55	7.20	7.20	7.65	0.011895	2.97	7.19	8.17	1.01
Santina	83.57	Tr 100	26.19	5.55	7.36	7.36	7.83	0.011479	3.04	8.61	9.21	1.00
Santina	83.57	Tr 200	31.17	5.55	7.53	7.53	8.00	0.011347	3.01	10.34	11.23	1.00
Santina	83.57	Tr 500	37.91	5.55	7.69	7.69	8.17	0.011635	3.07	12.44	18.47	1.02
Santina	59.53	Tr 50	21.35	4.65	5.93	5.93	6.20	0.008999	2.44	10.81	21.77	0.89
Santina	59.53	Tr 100	26.19	4.65	6.02	6.02	6.31	0.008772	2.59	12.70	22.24	0.89
Santina	59.53	Tr 200	31.17	4.65	6.10	6.10	6.42	0.008720	2.73	14.45	22.72	0.90
Santina	59.53	Tr 500	37.91	4.65	6.18	6.18	6.55	0.009027	2.95	16.42	23.21	0.93
Santina	39.96	Tr 50	21.35	4.65	5.18	5.18	5.37	0.013838	2.33	12.64	34.13	1.05
Santina	39.96	Tr 100	26.19	4.65	5.23	5.23	5.46	0.014766	2.56	14.29	35.44	1.10
Santina	39.96	Tr 200	31.17	4.65	5.34	5.34	5.54	0.010442	2.43	19.42	50.04	0.95
Santina	39.96	Tr 500	37.91	4.65	5.41	5.41	5.62	0.010128	2.55	22.83	52.04	0.95
Santina	23.5	Tr 50	21.35	3.90	4.81	4.81	4.96	0.009118	2.29	17.02	54.00	0.88
Santina	23.5	Tr 100	26.19	3.90	4.85	4.85	5.02	0.009555	2.45	19.59	56.48	0.92
Santina	23.5	Tr 200	31.17	3.90	4.89	4.89	5.08	0.010051	2.61	21.97	58.68	0.95
Santina	23.5	Tr 500	37.91	3.90	4.96	4.96	5.15	0.009692	2.70	25.83	61.79	0.94
Santina	3	Tr 50	21.35	3.00	4.76		4.78	0.000431	0.76	46.69	78.62	0.21
Santina	3	Tr 100	26.19	3.00	4.84		4.86	0.000475	0.83	53.12	92.65	0.23
Santina	3	Tr 200	31.17	3.00	4.91		4.94	0.000497	0.88	60.32	96.04	0.23
Santina	3	Tr 500	37.91	3.00	5.01		5.04	0.000557	0.97	69.47	99.41	0.25
Santina	1	Tr 50	21.35	2.55	4.77		4.78	0.000054	0.36	99.57	118.62	0.08
Santina	1	Tr 100	26.19	2.55	4.85		4.85	0.000066	0.41	109.57	140.52	0.09
Santina	1	Tr 200	31.17	2.55	4.92		4.93	0.000077	0.46	120.54	145.73	0.10
Santina	1	Tr 500	37.91	2.55	5.02		5.03	0.000099	0.53	135.63	167.18	0.11

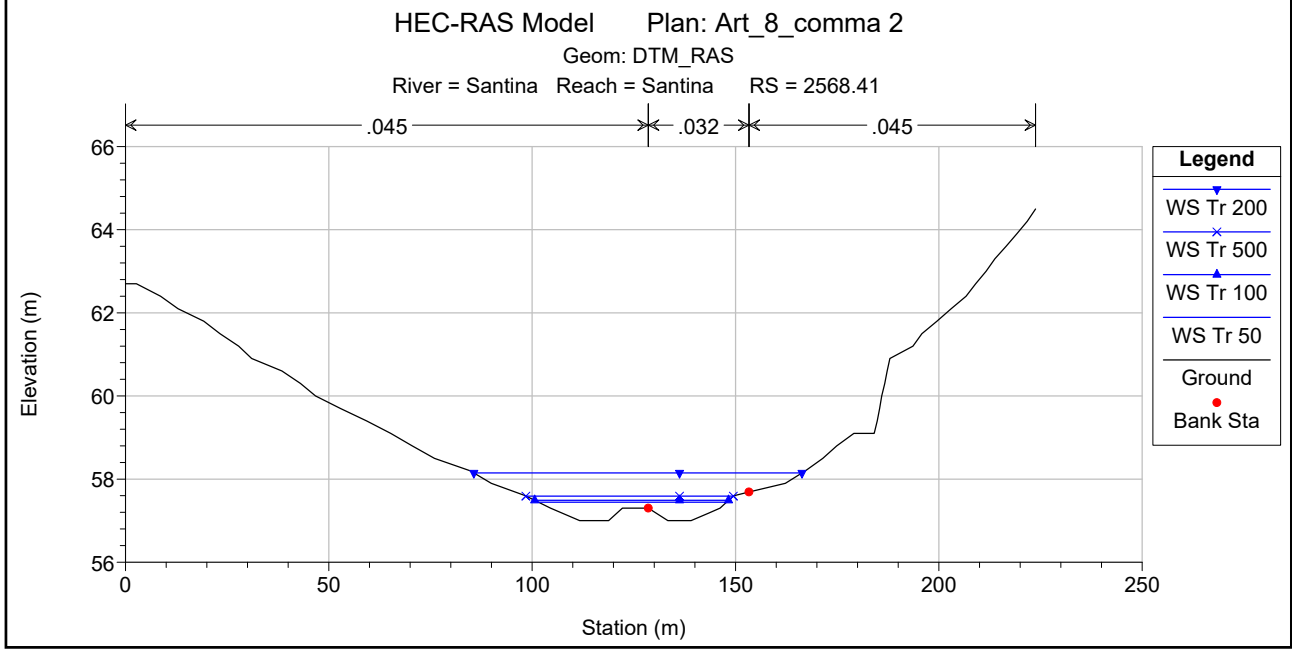
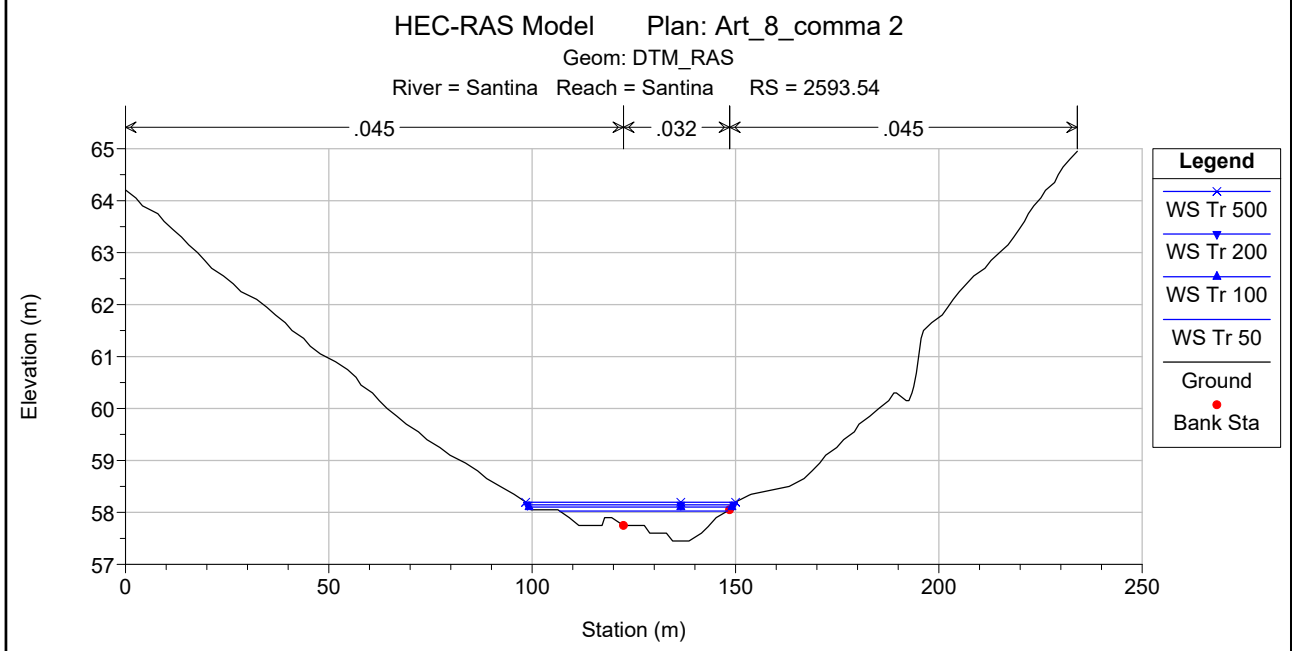
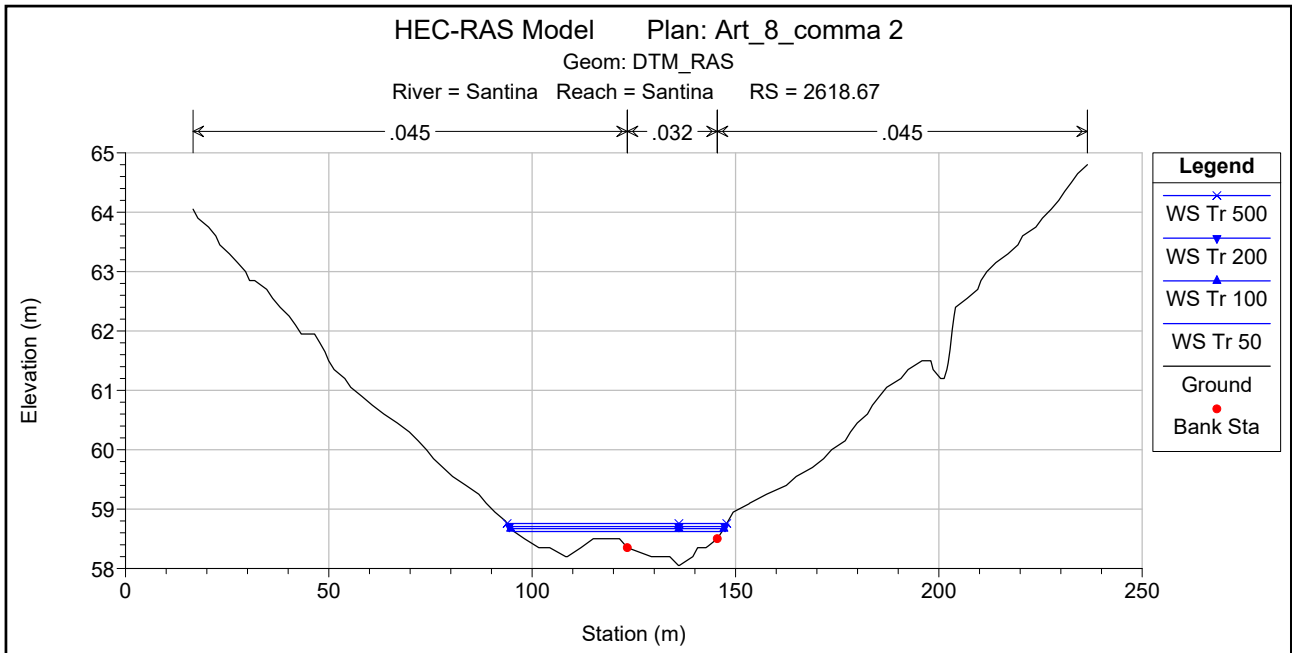


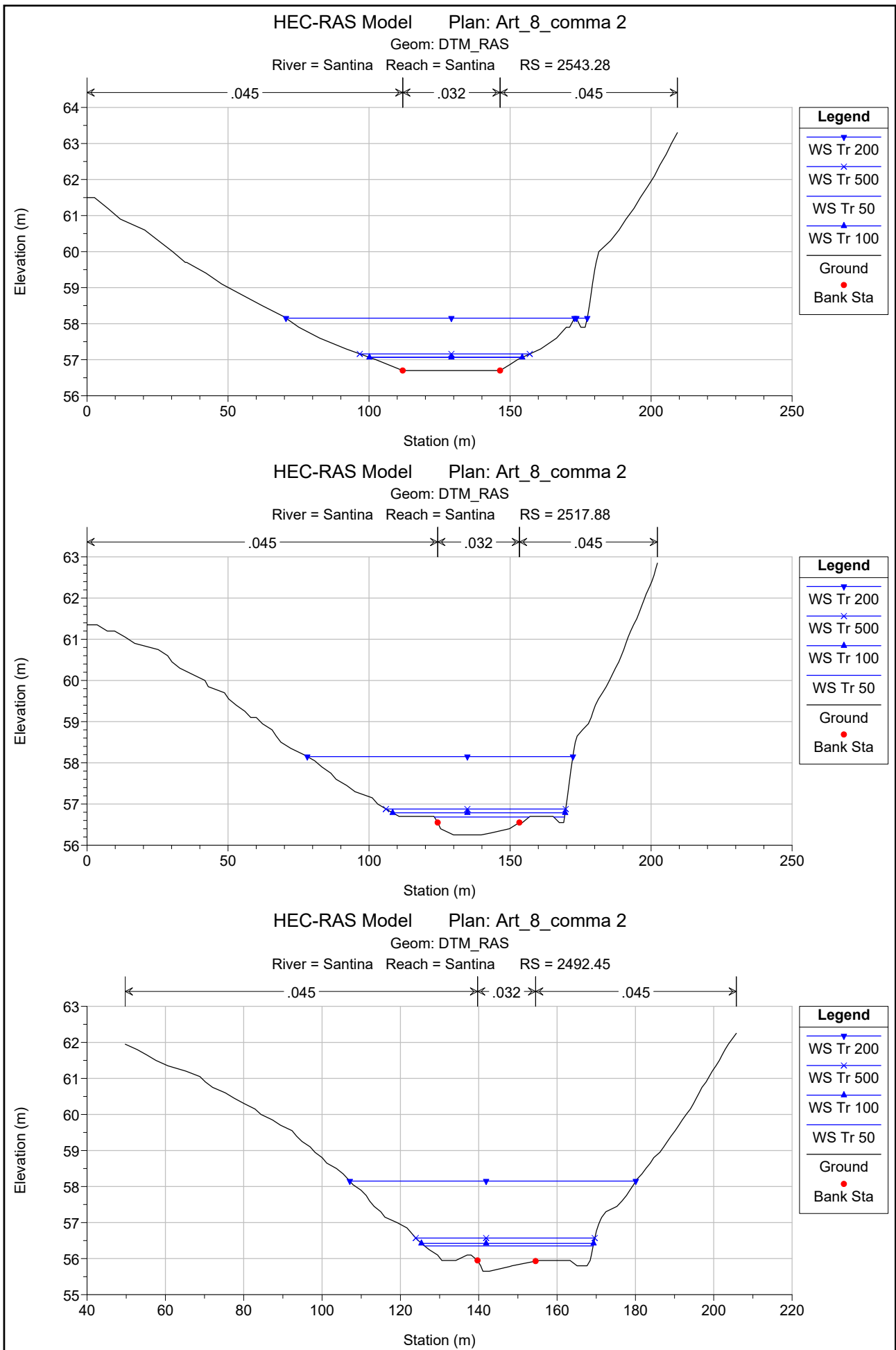
HEC-RAS Model Plan: Art_8_comma 2

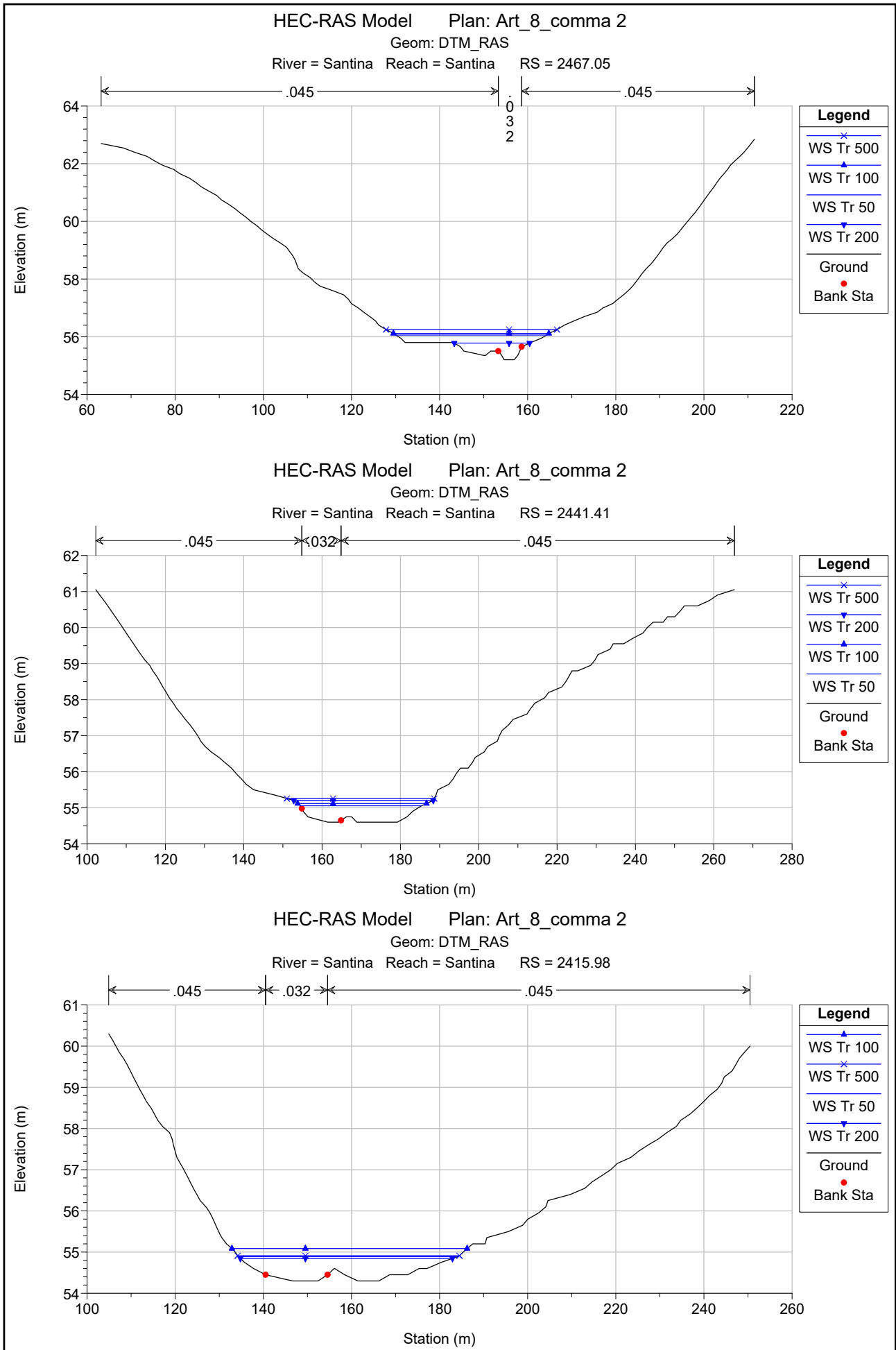
Geom: DTM_RAS

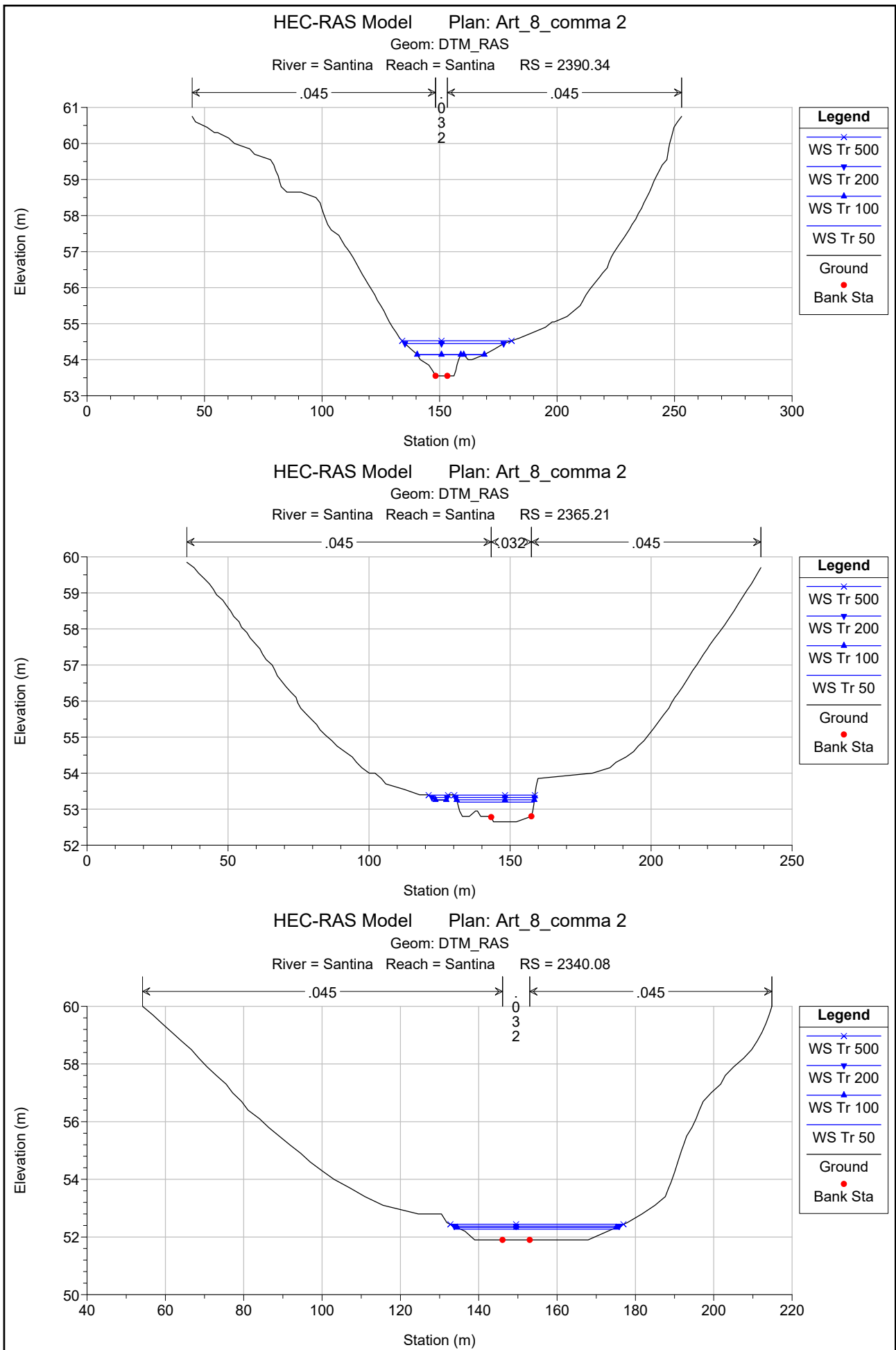
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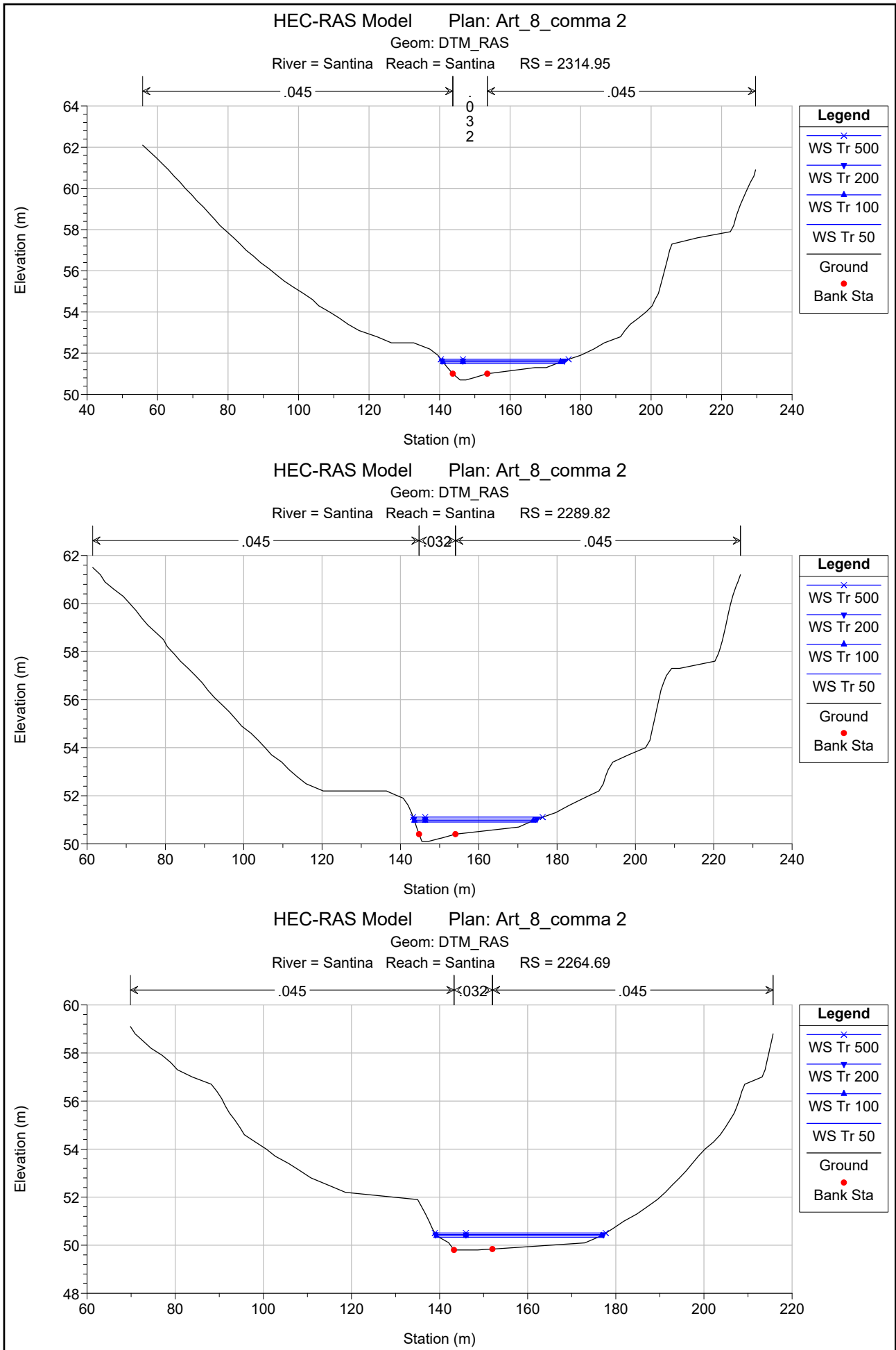


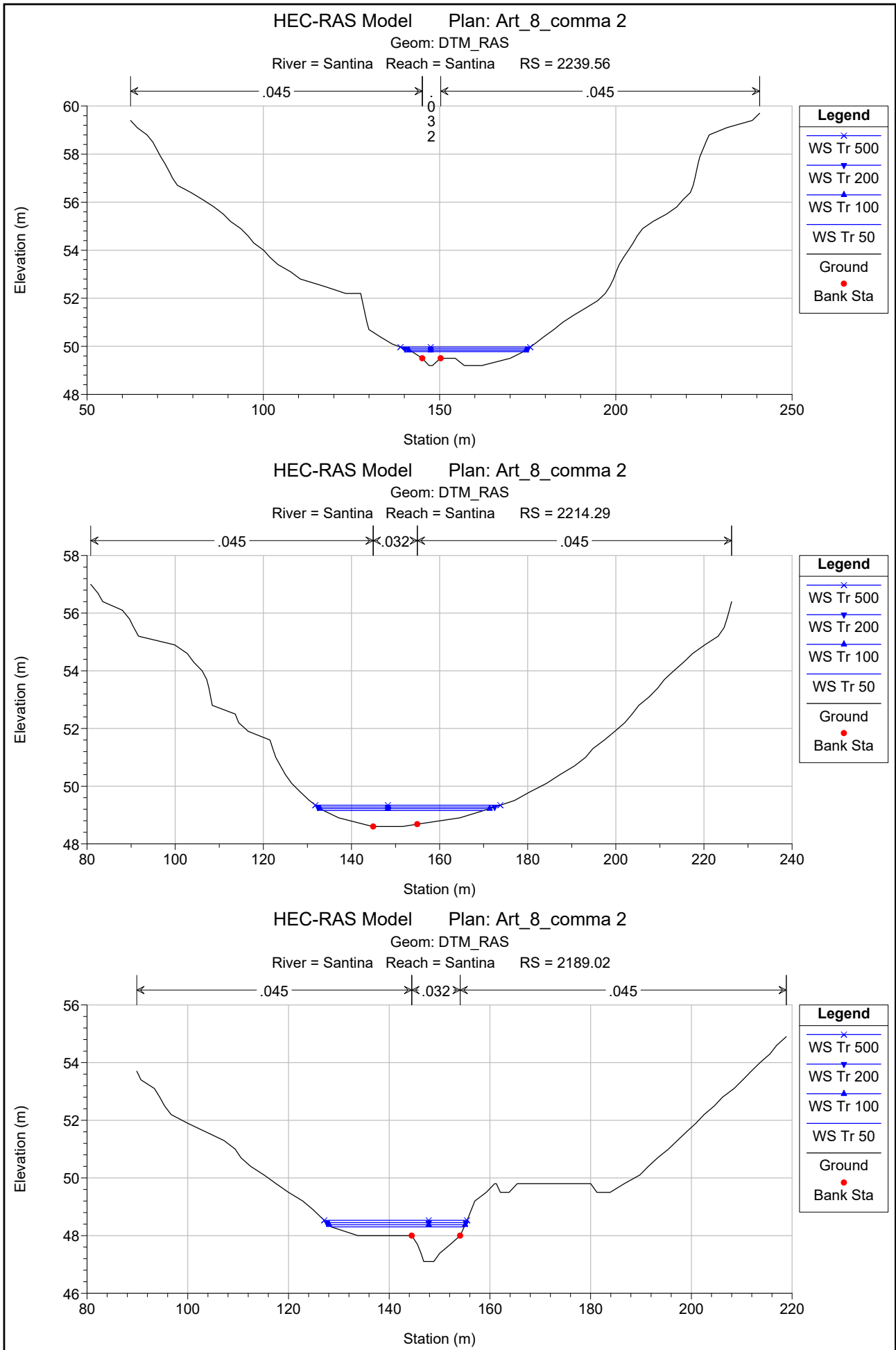


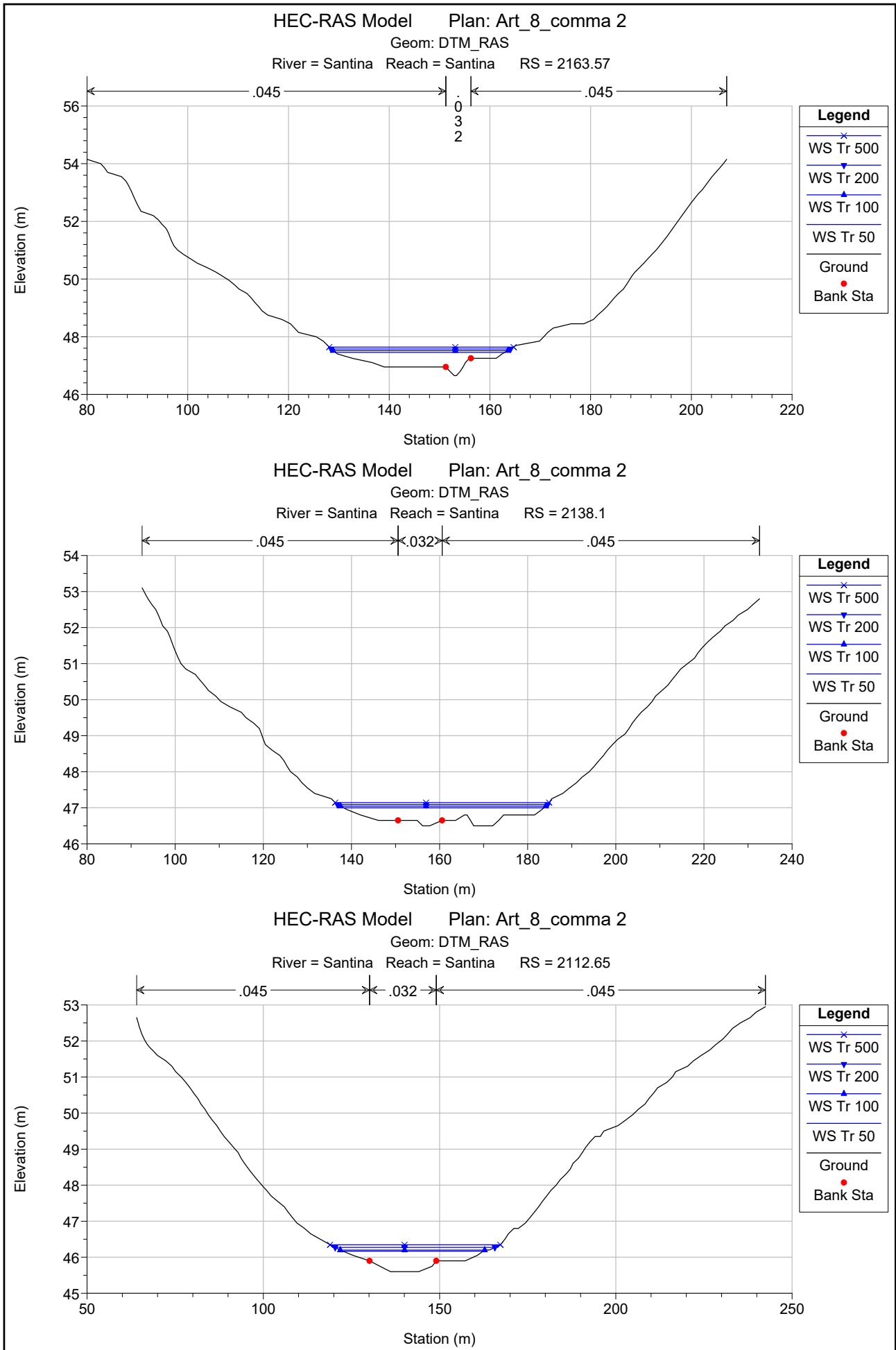


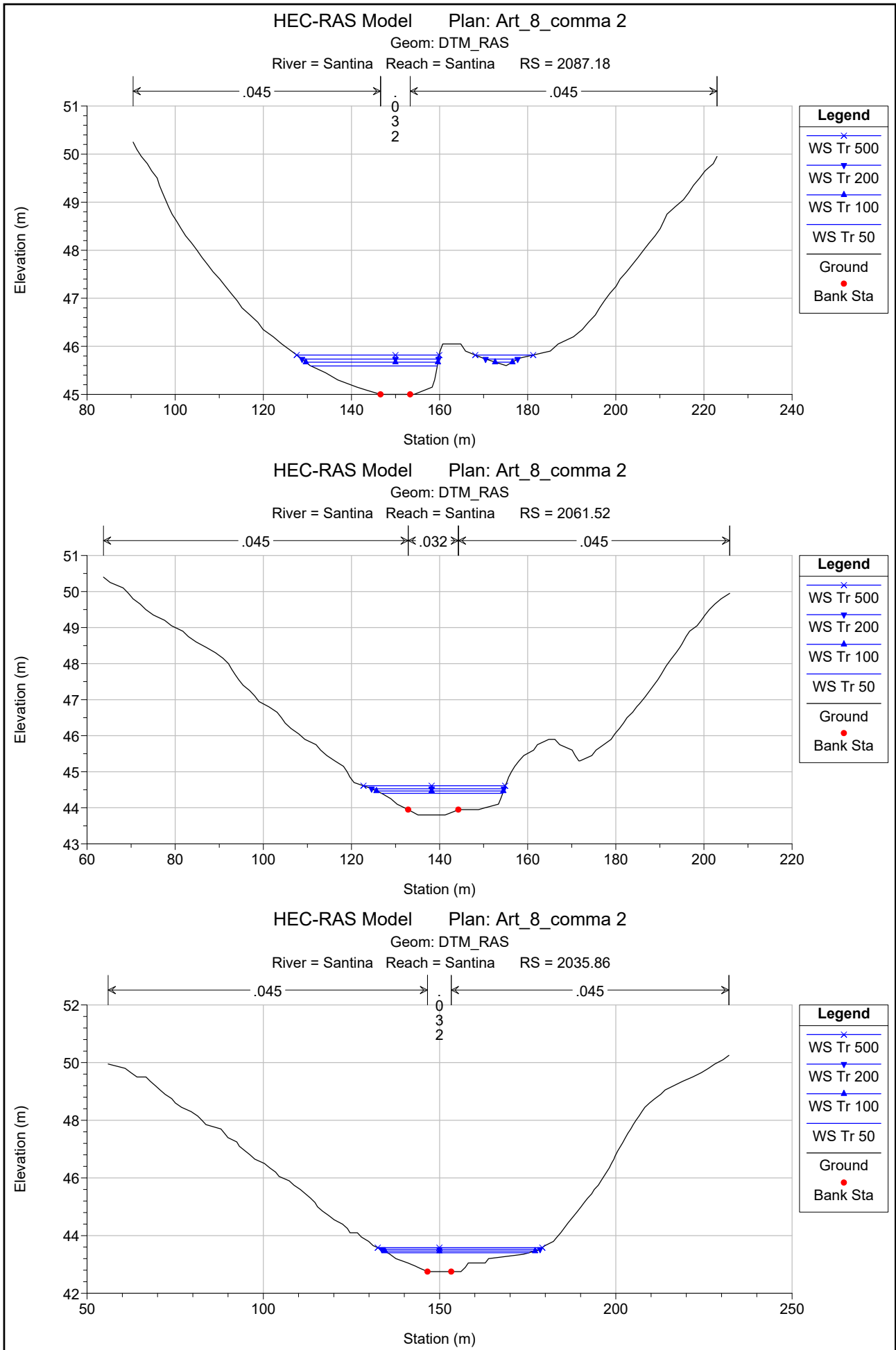


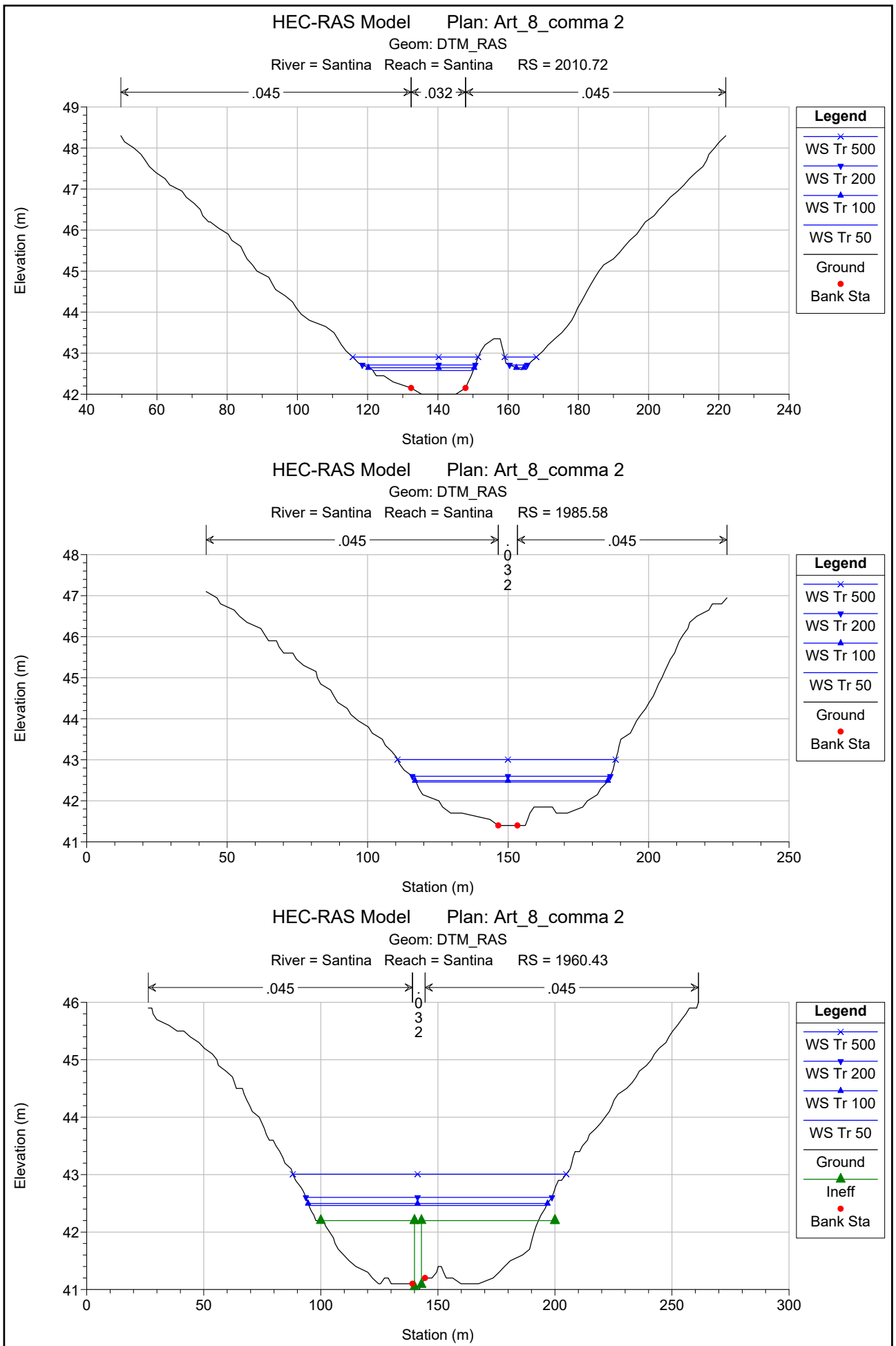


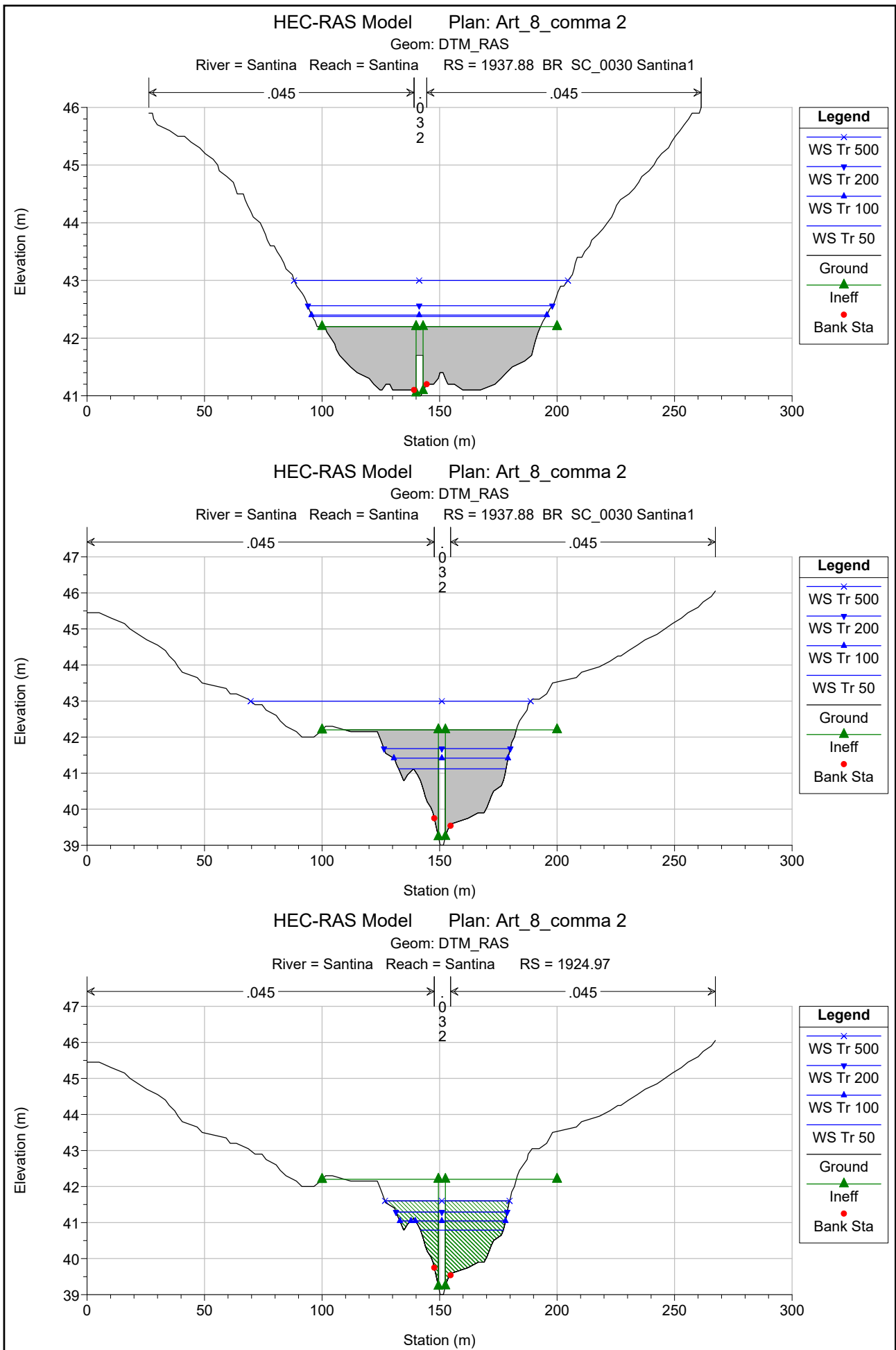


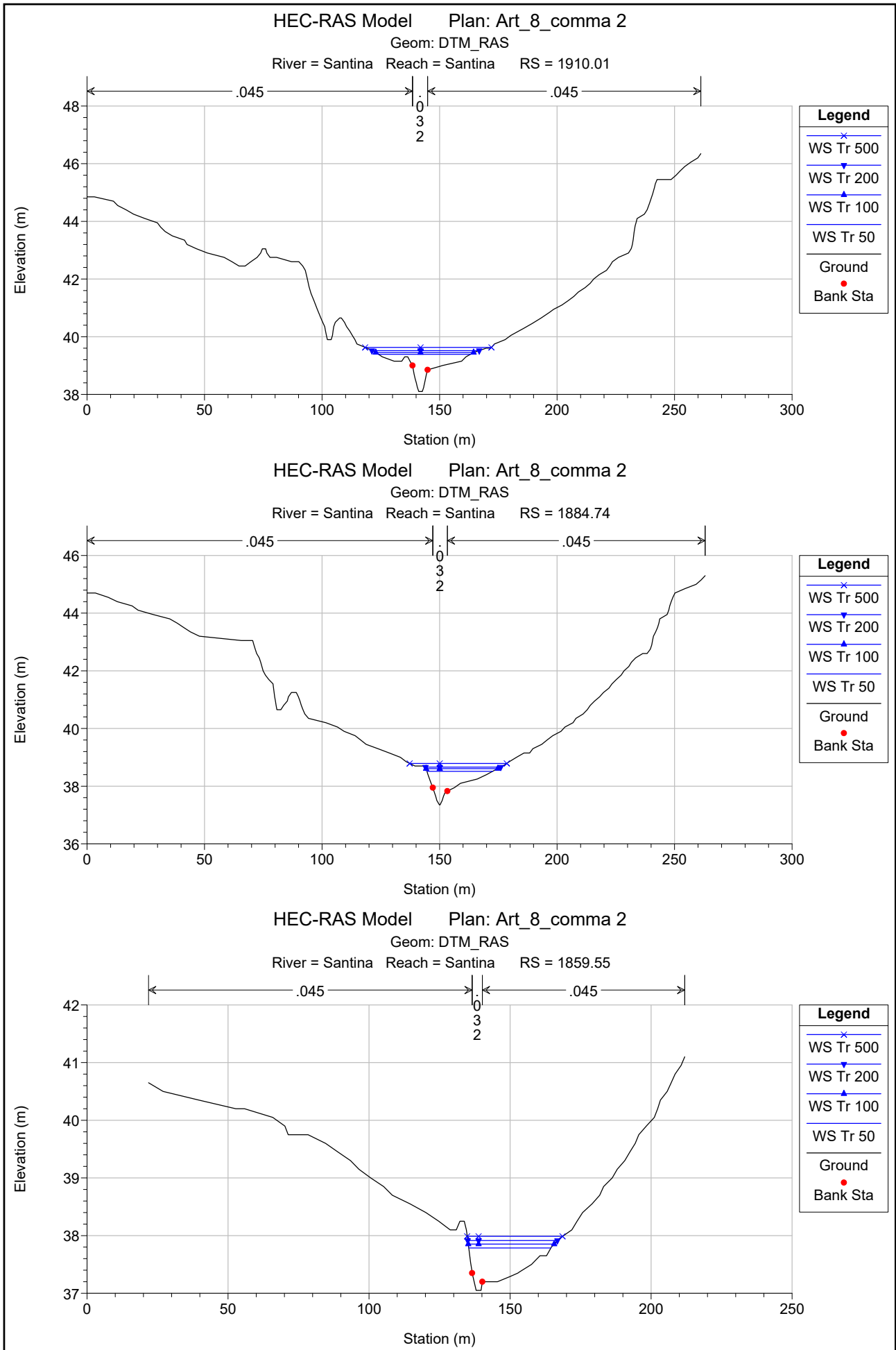


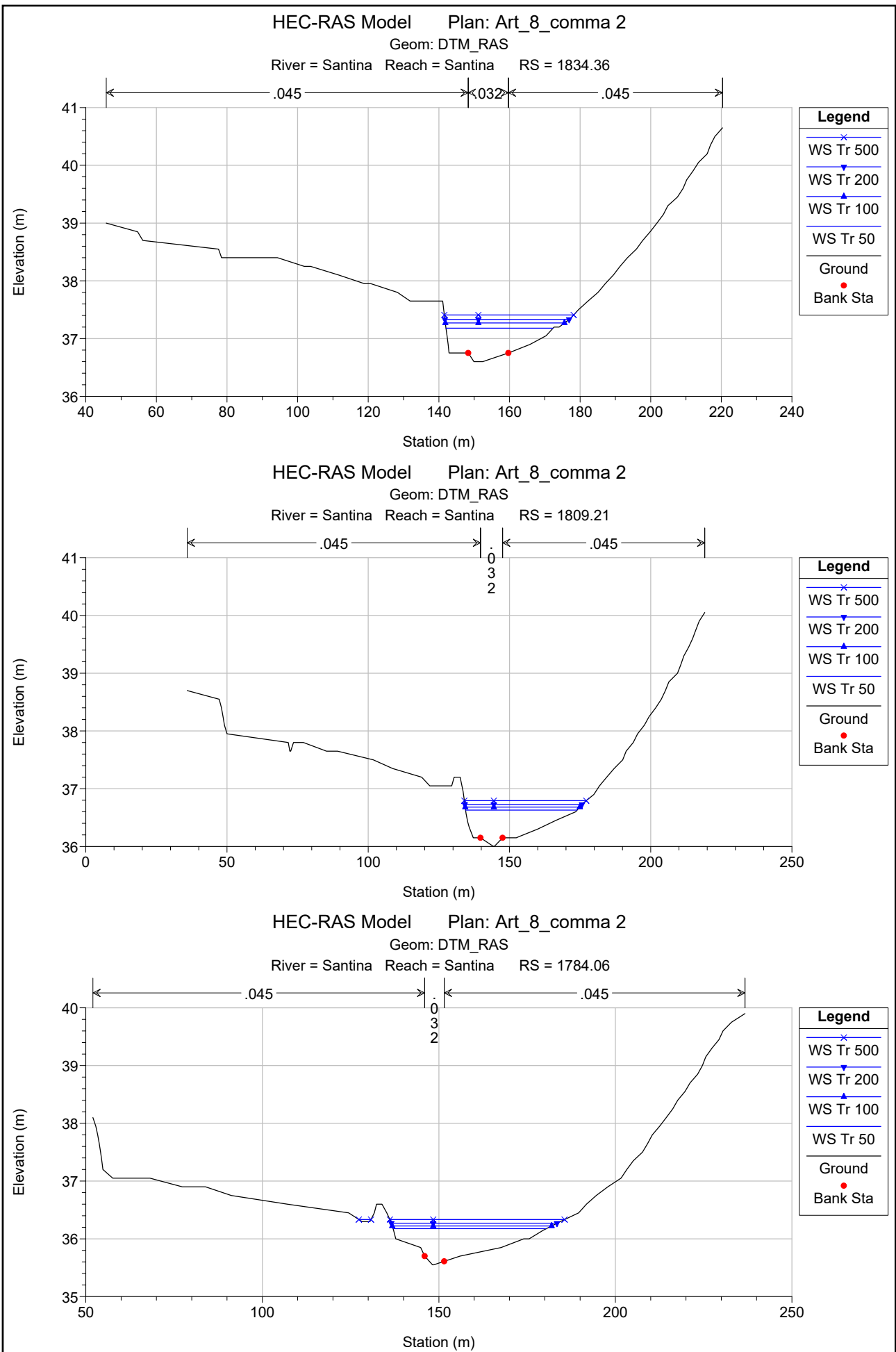


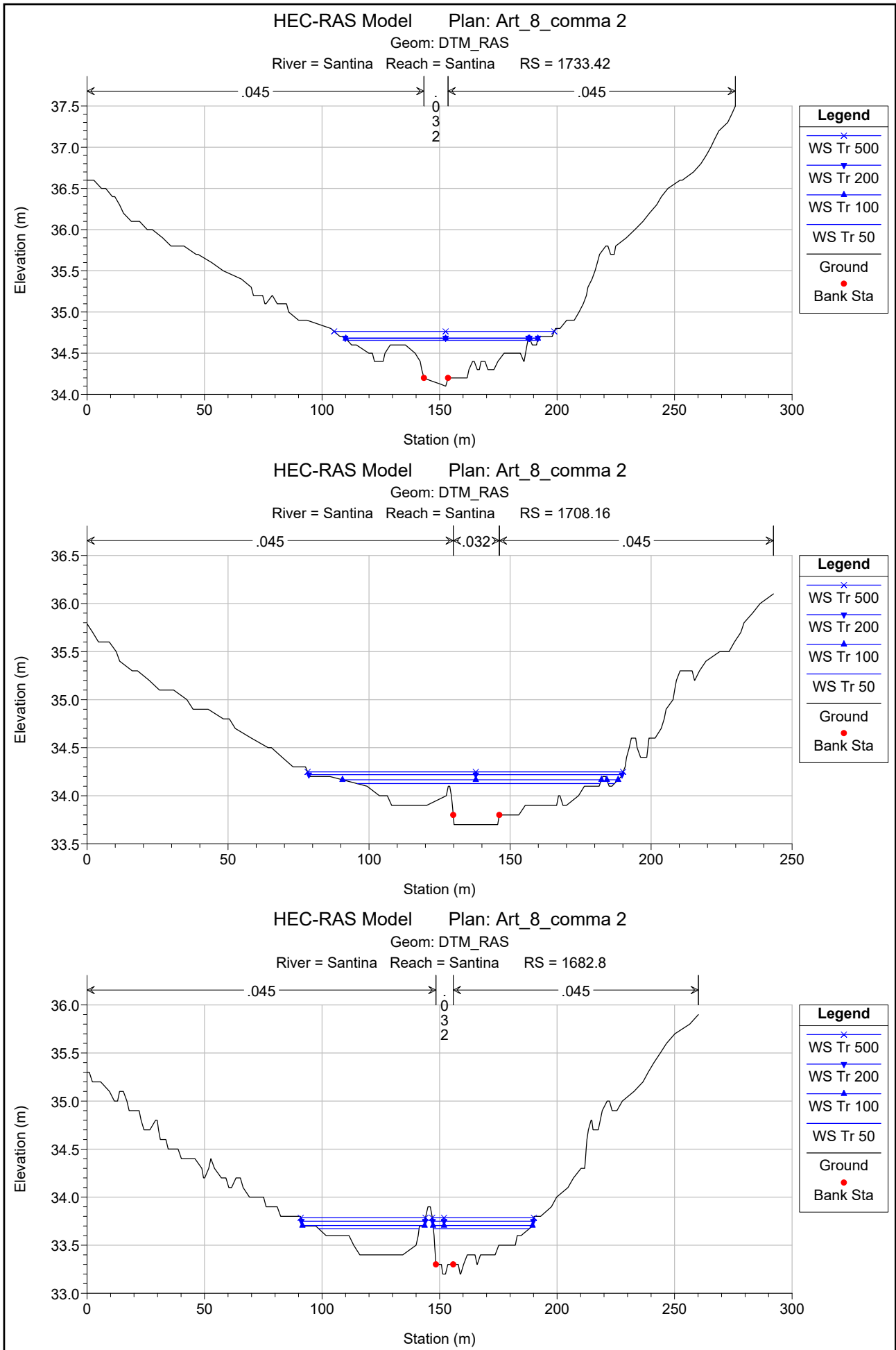


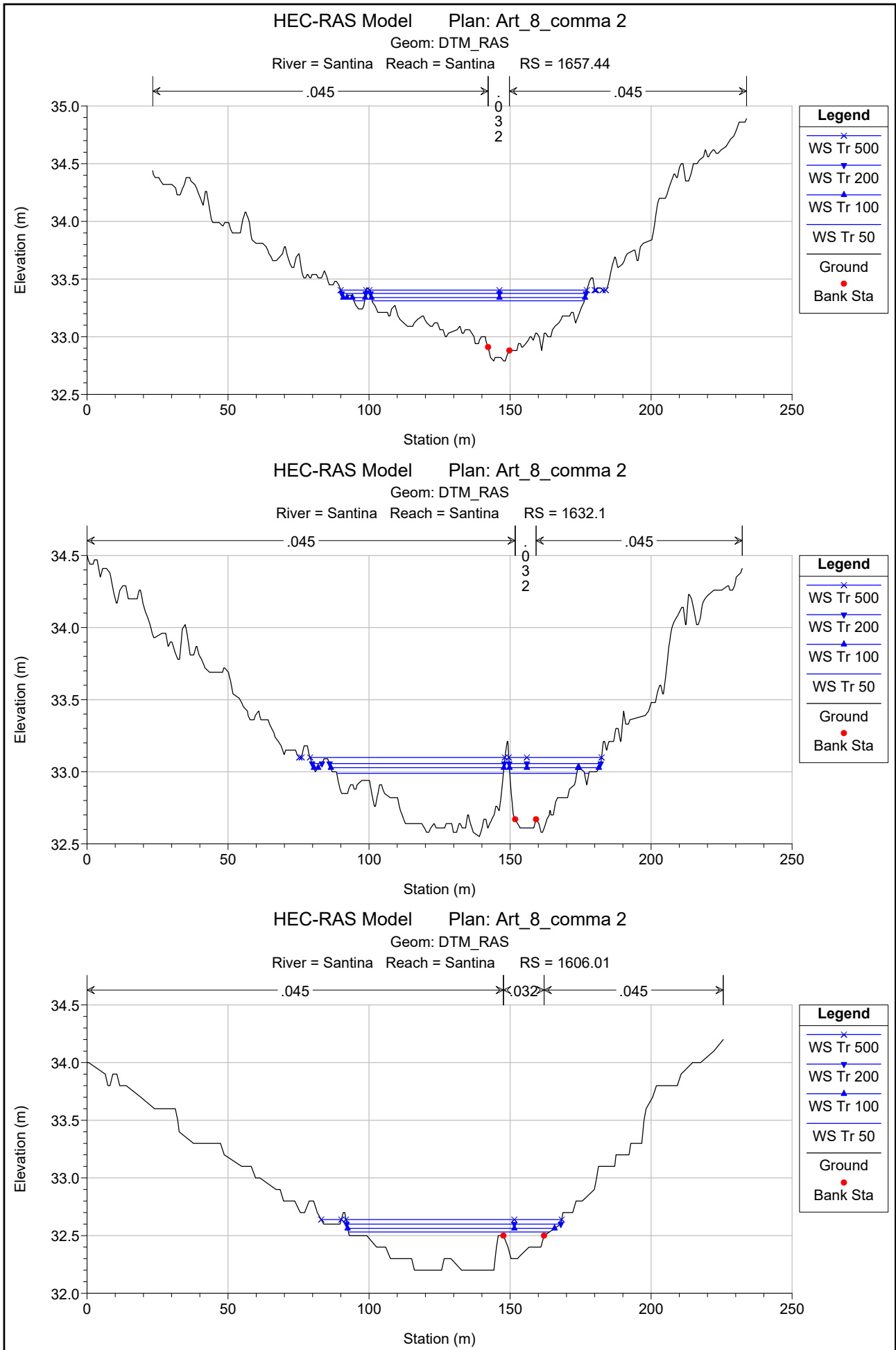


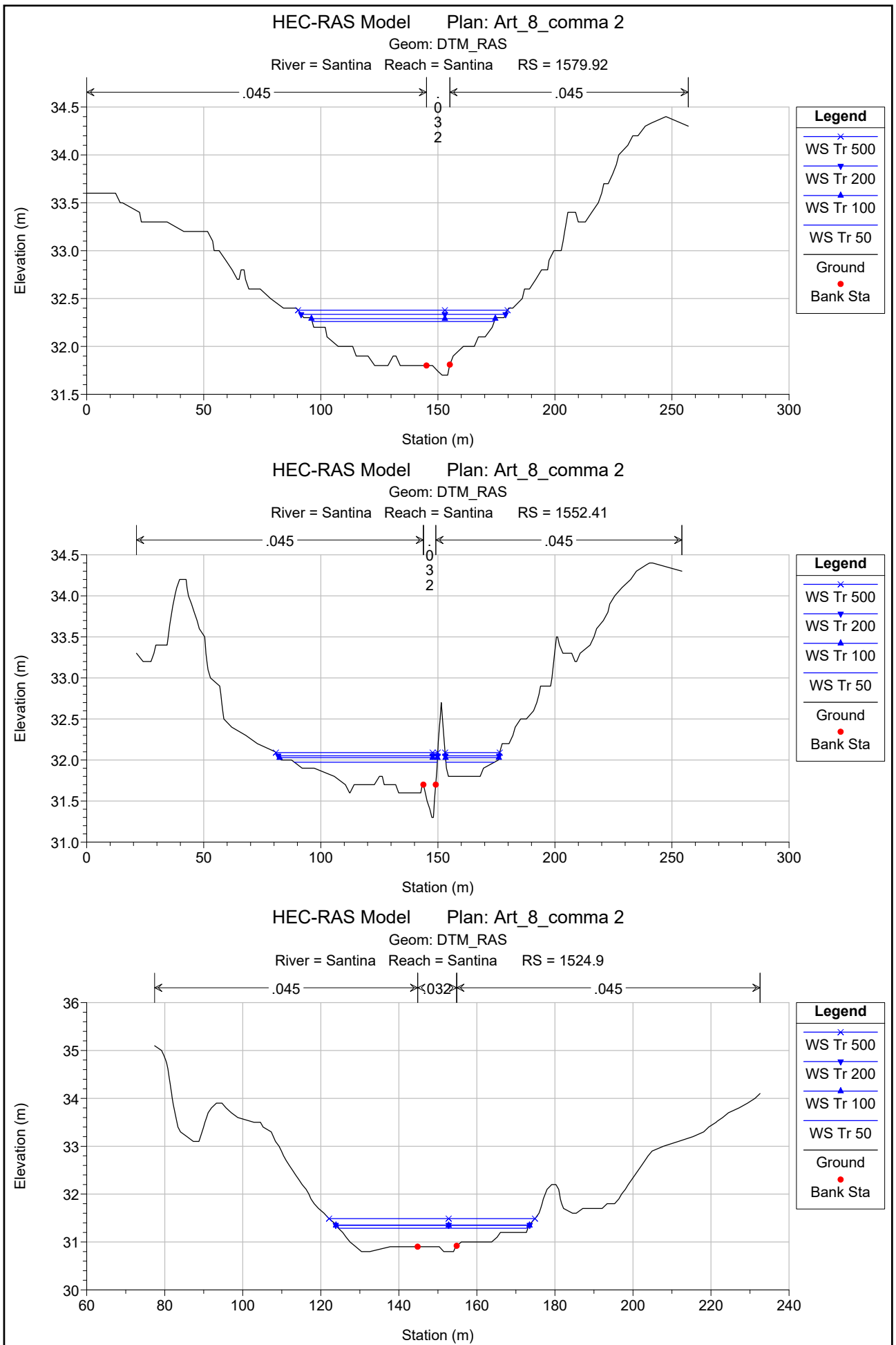


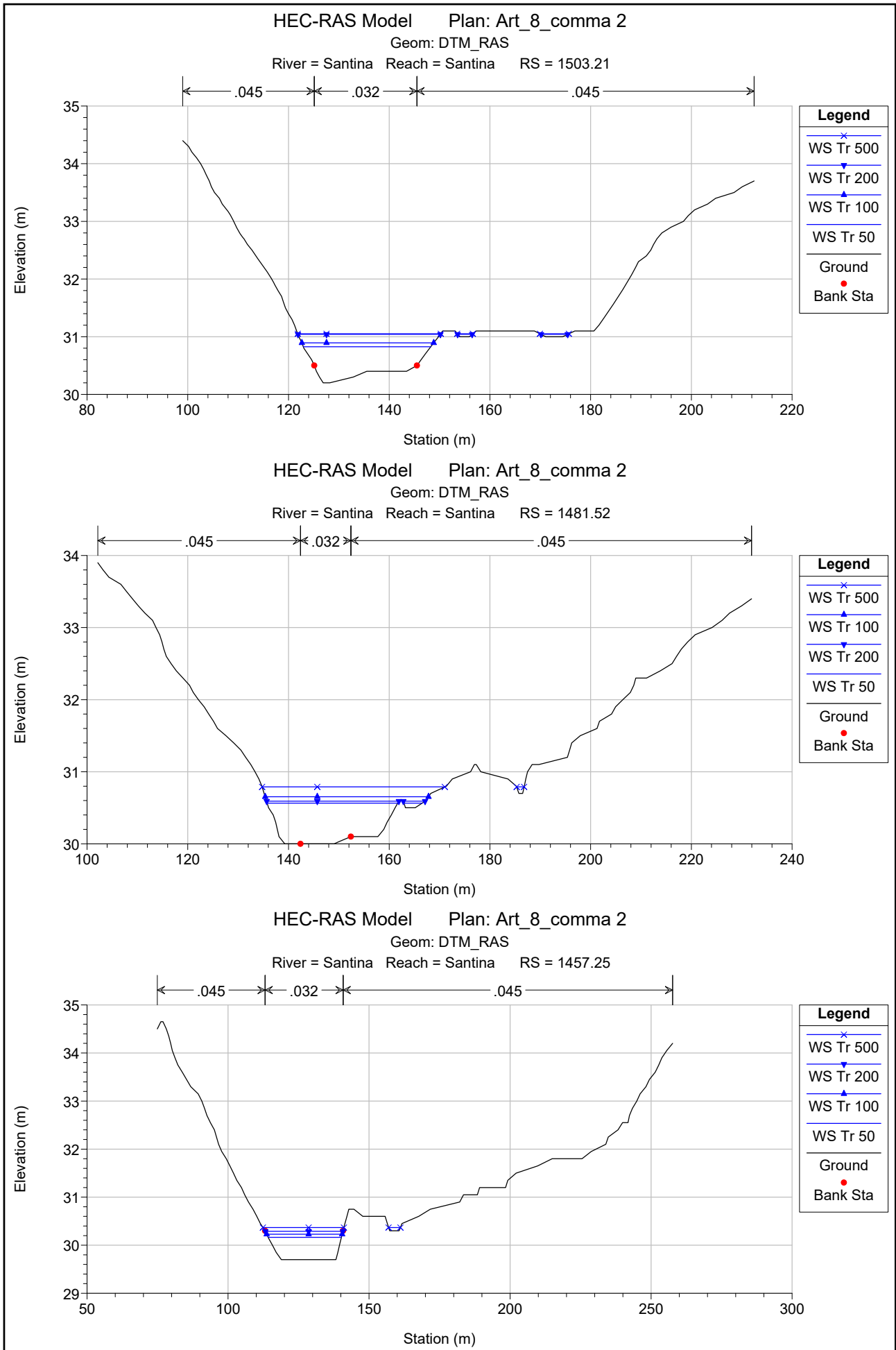


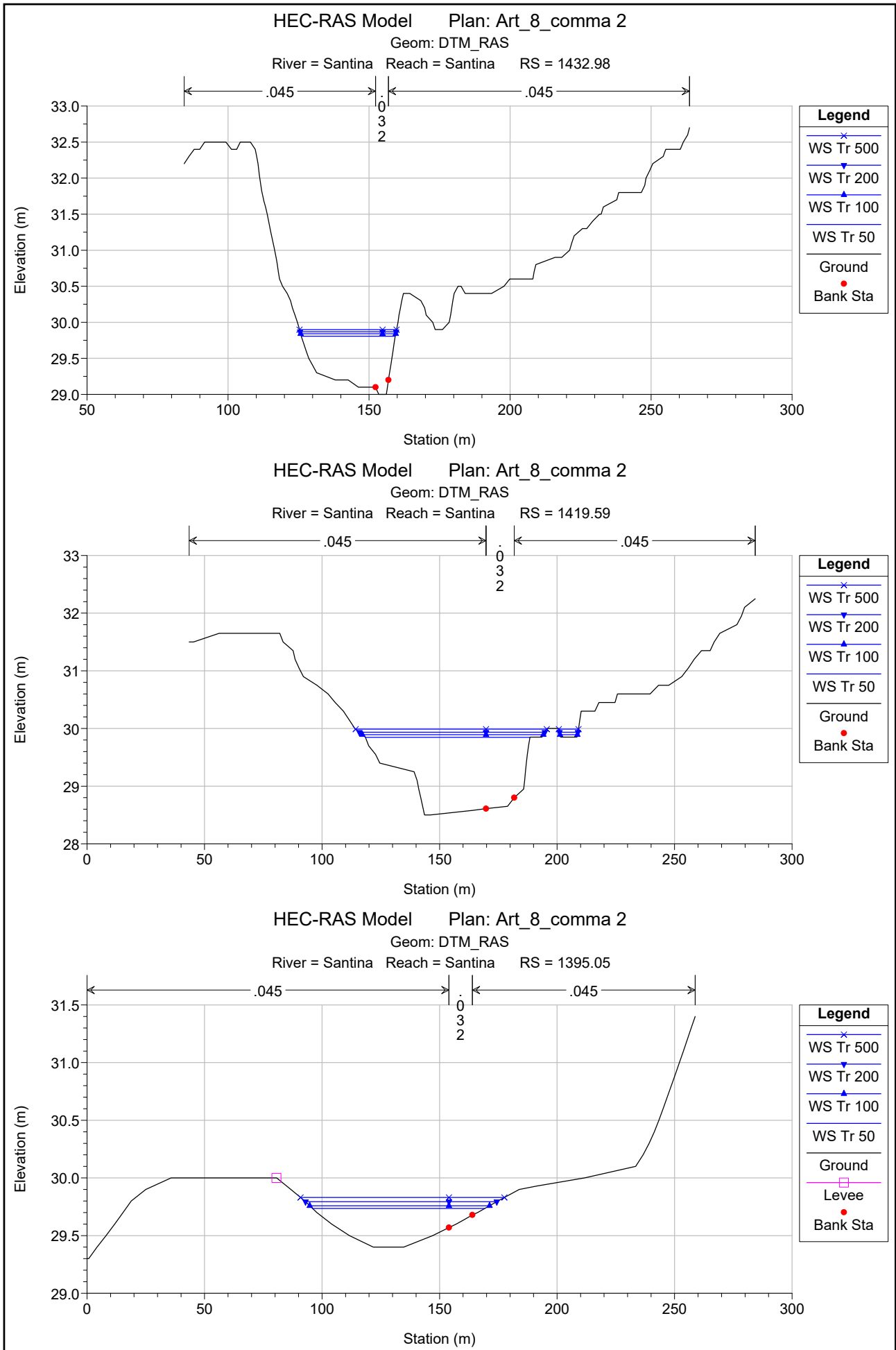


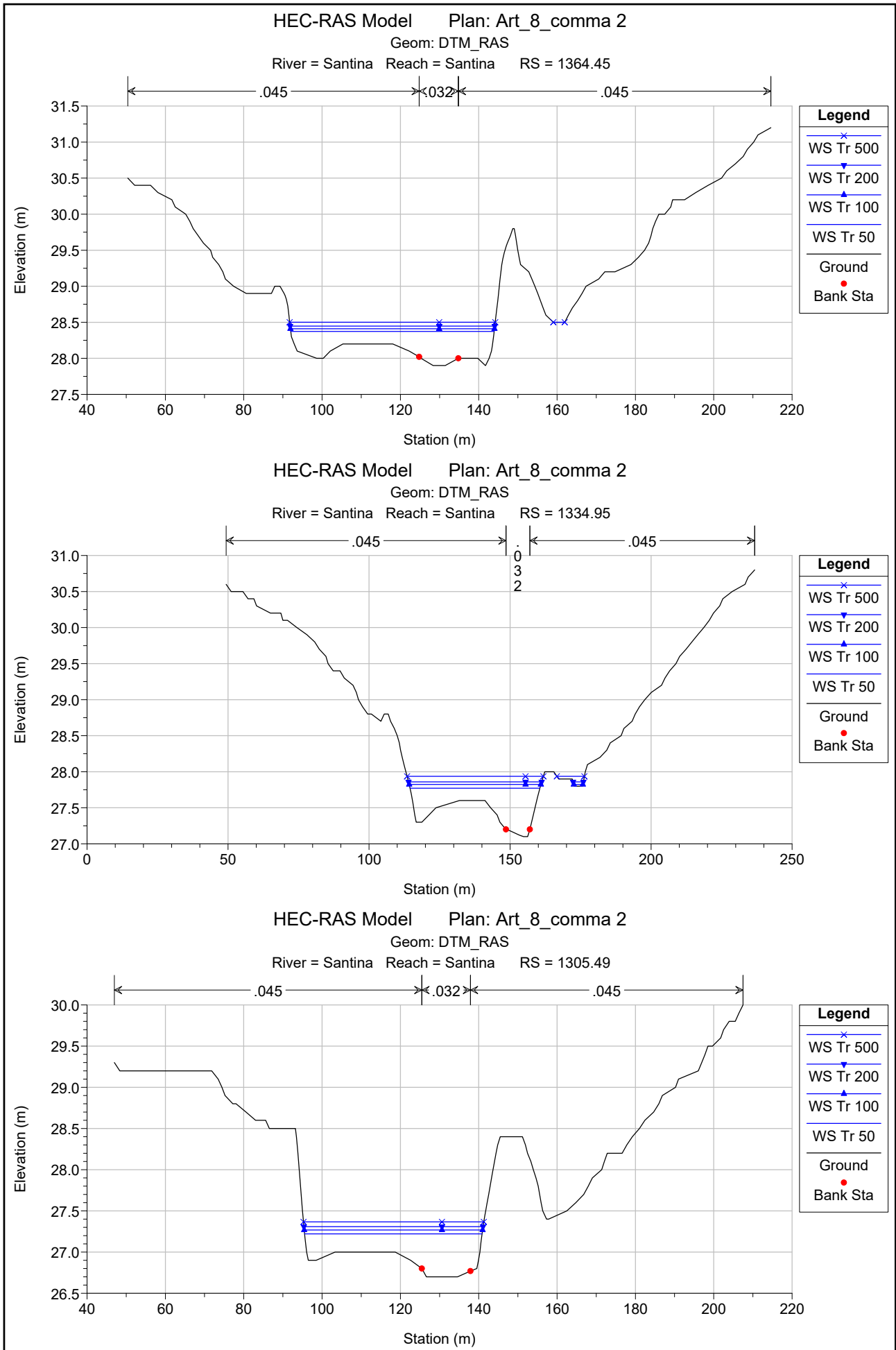


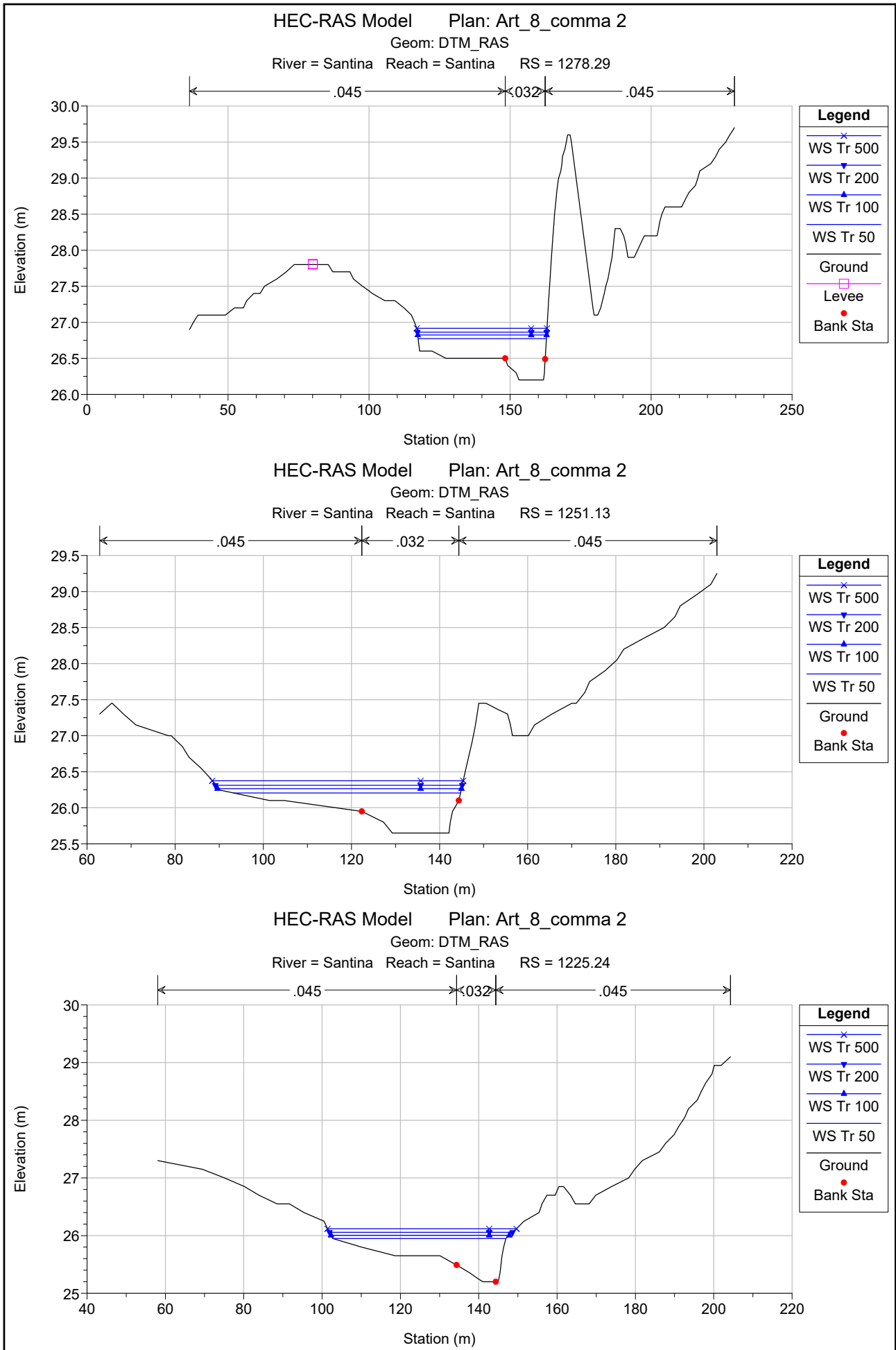


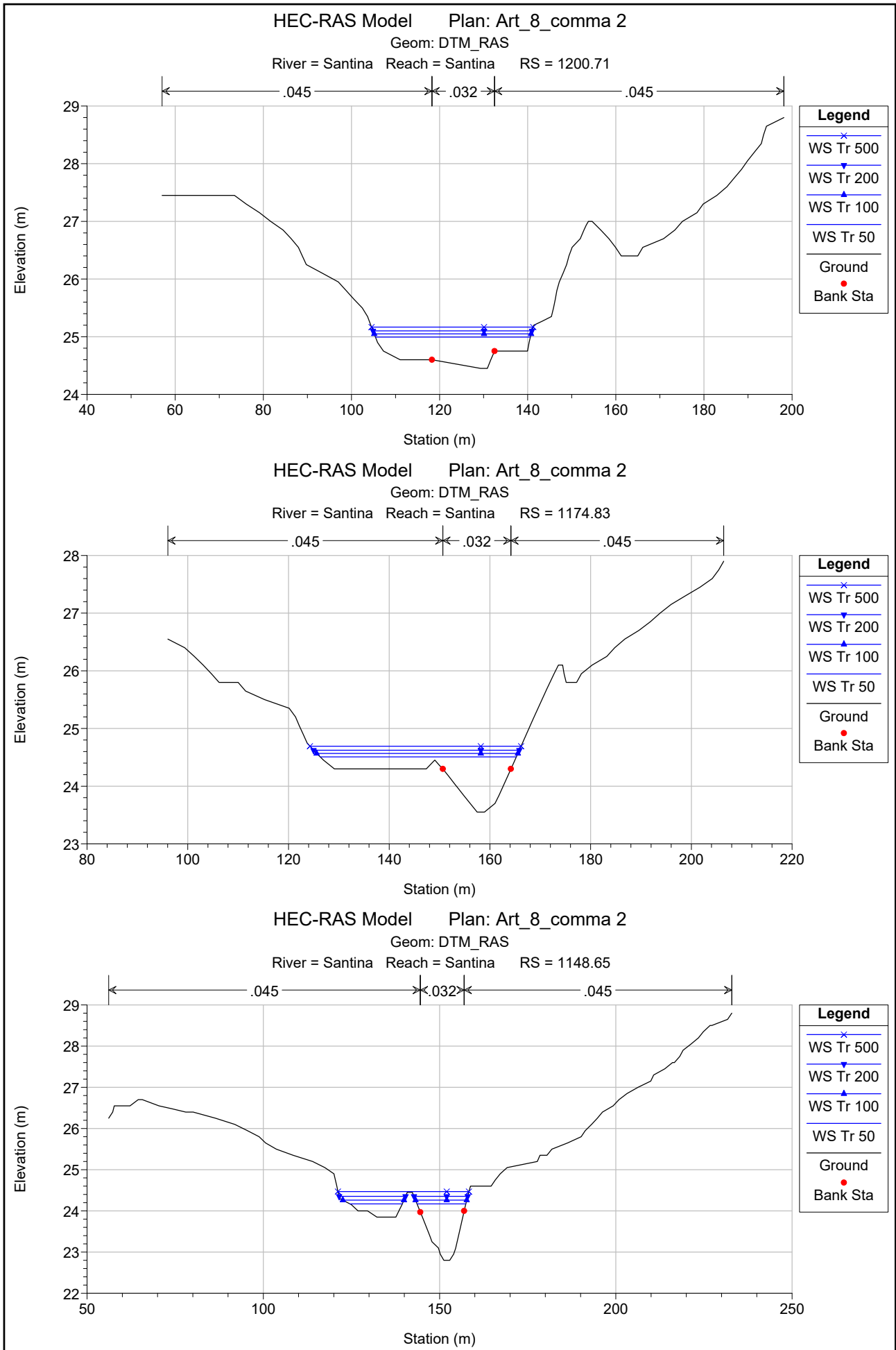


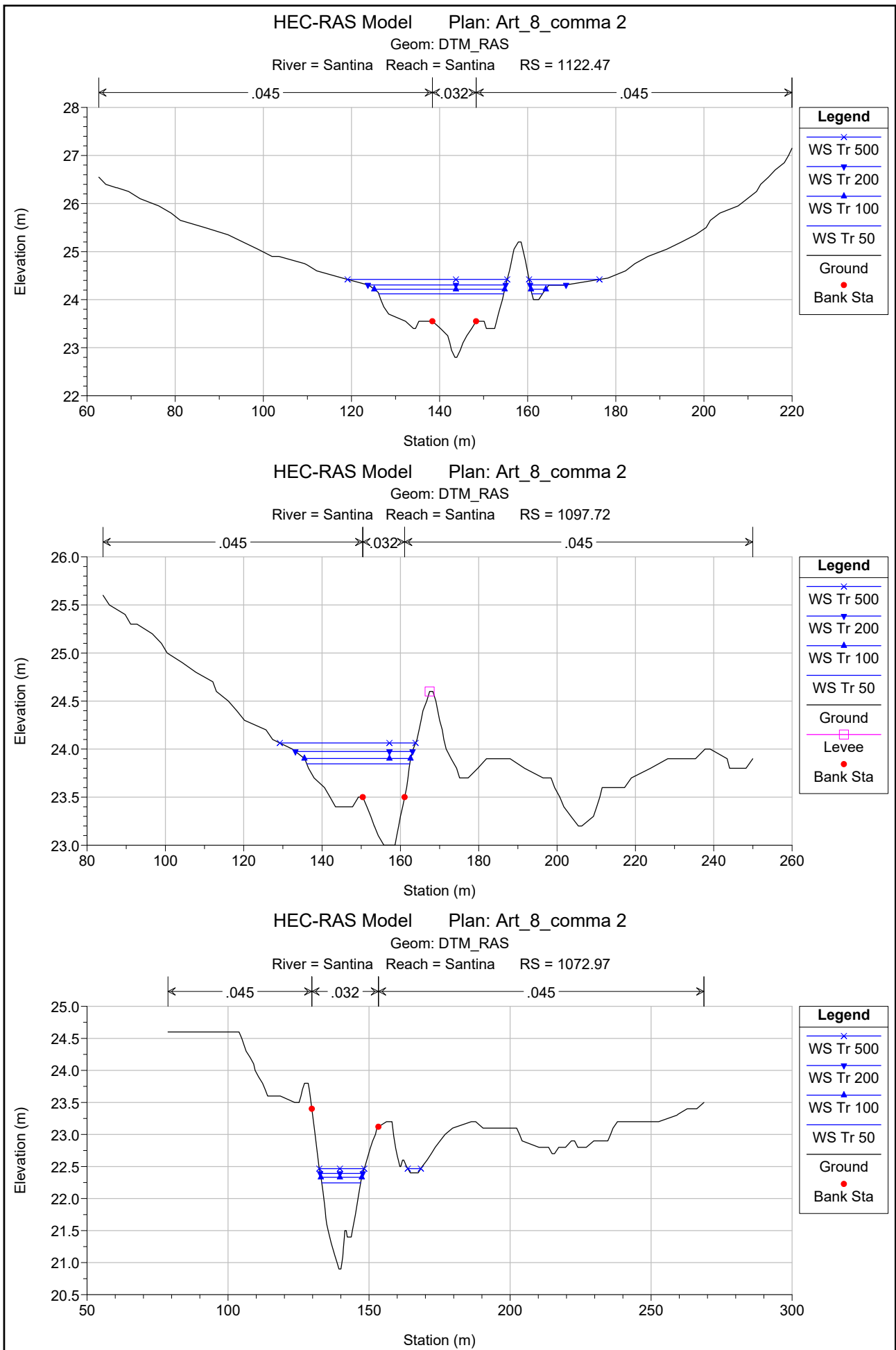


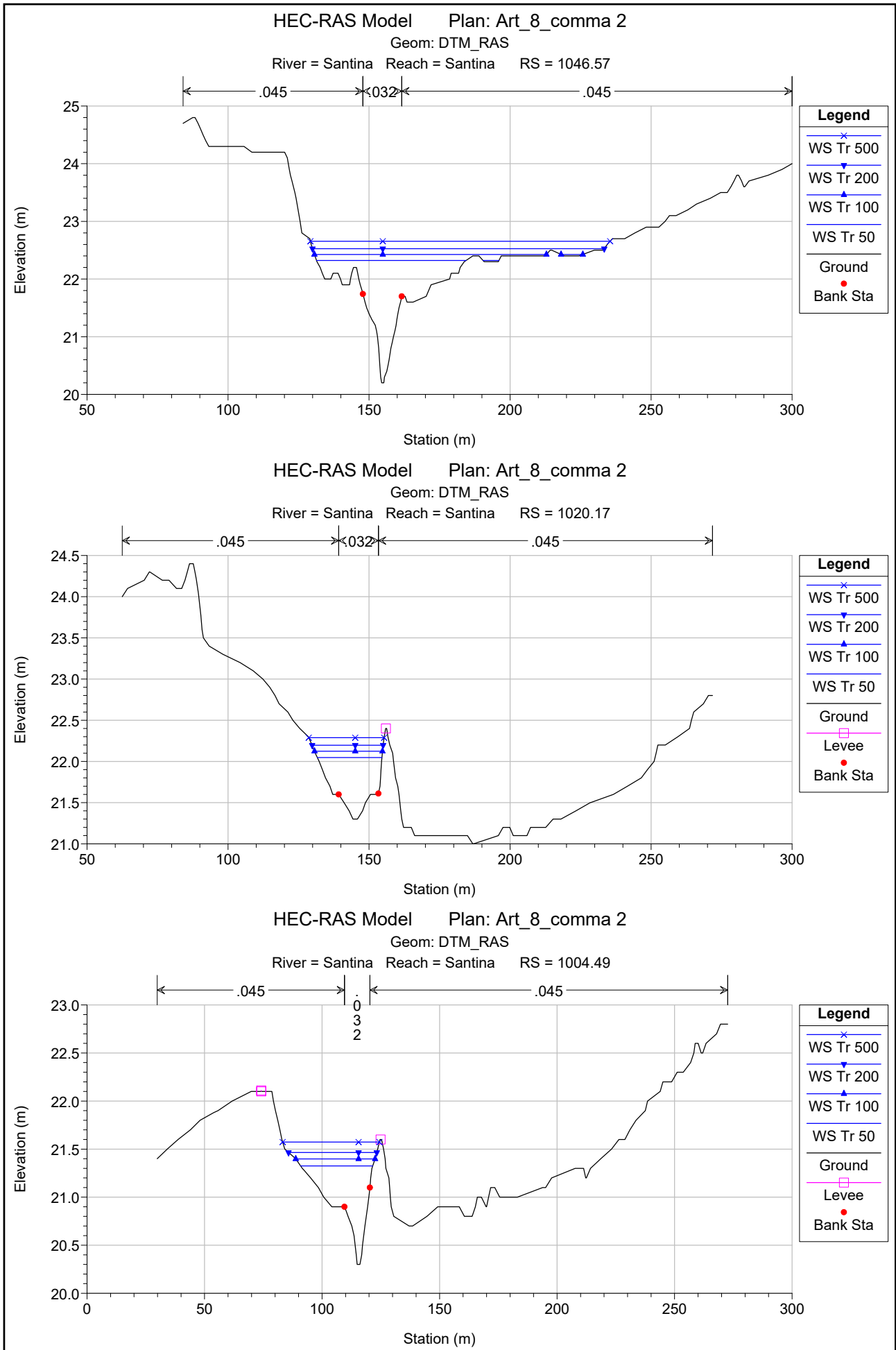


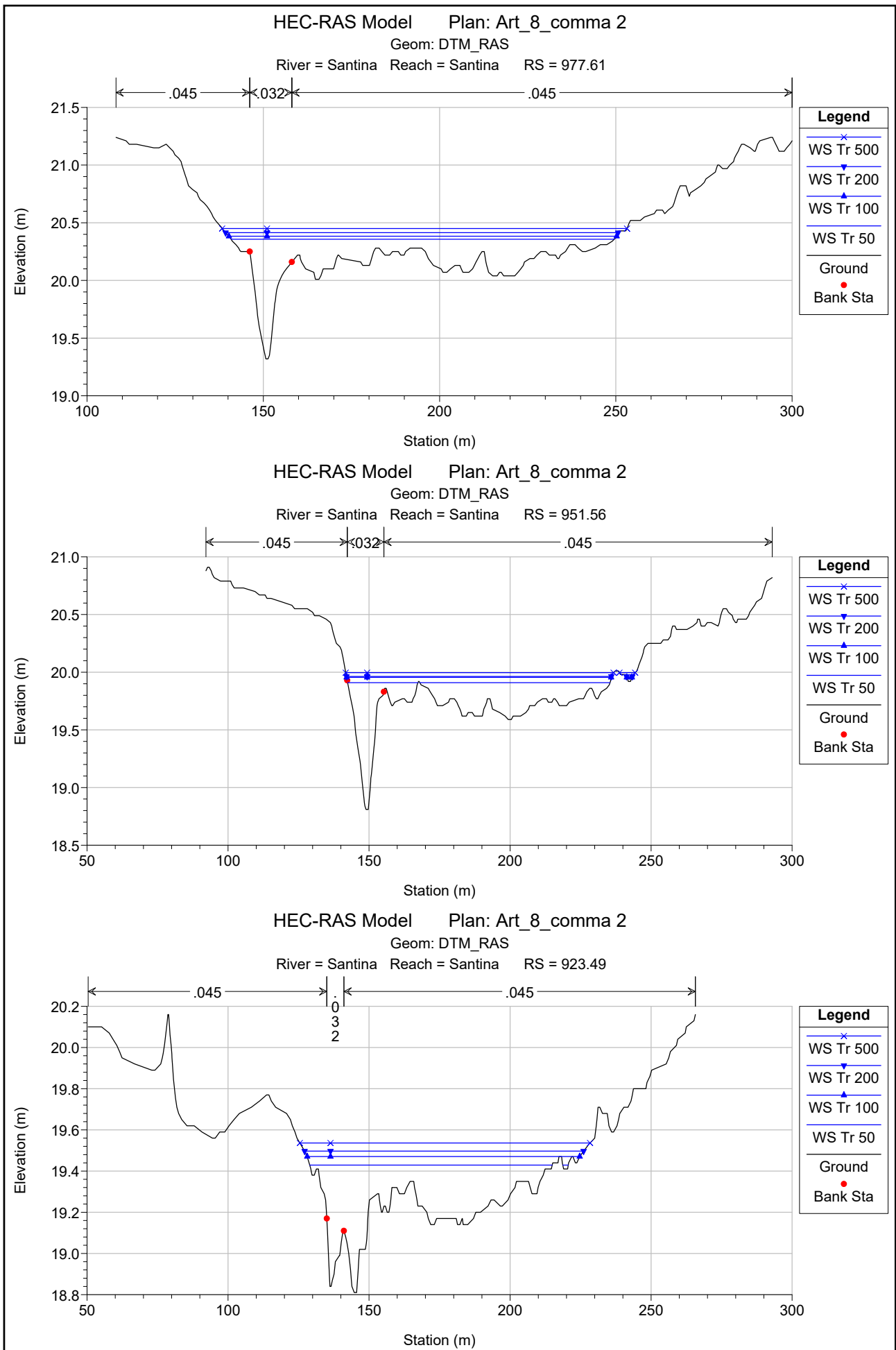


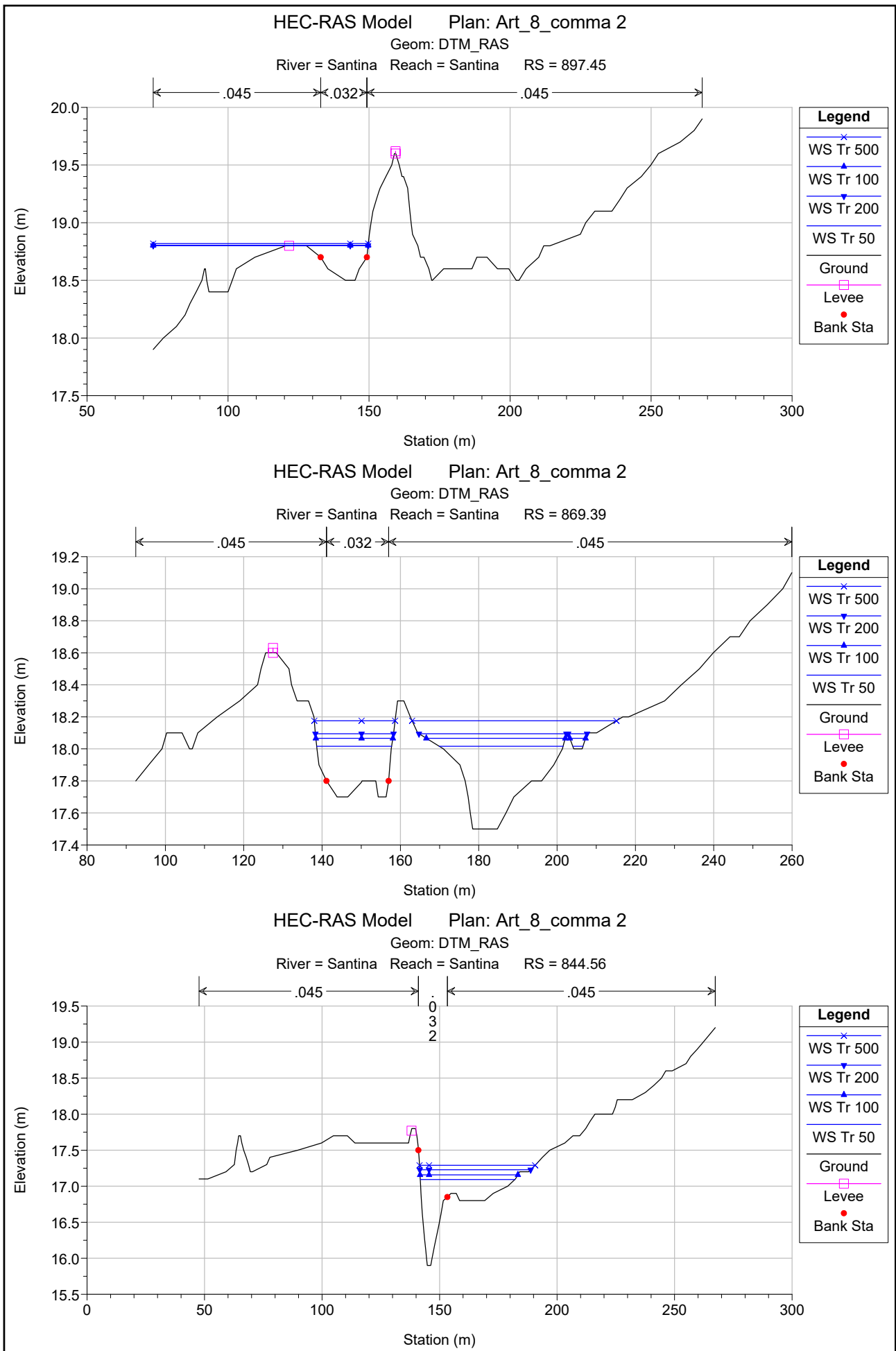


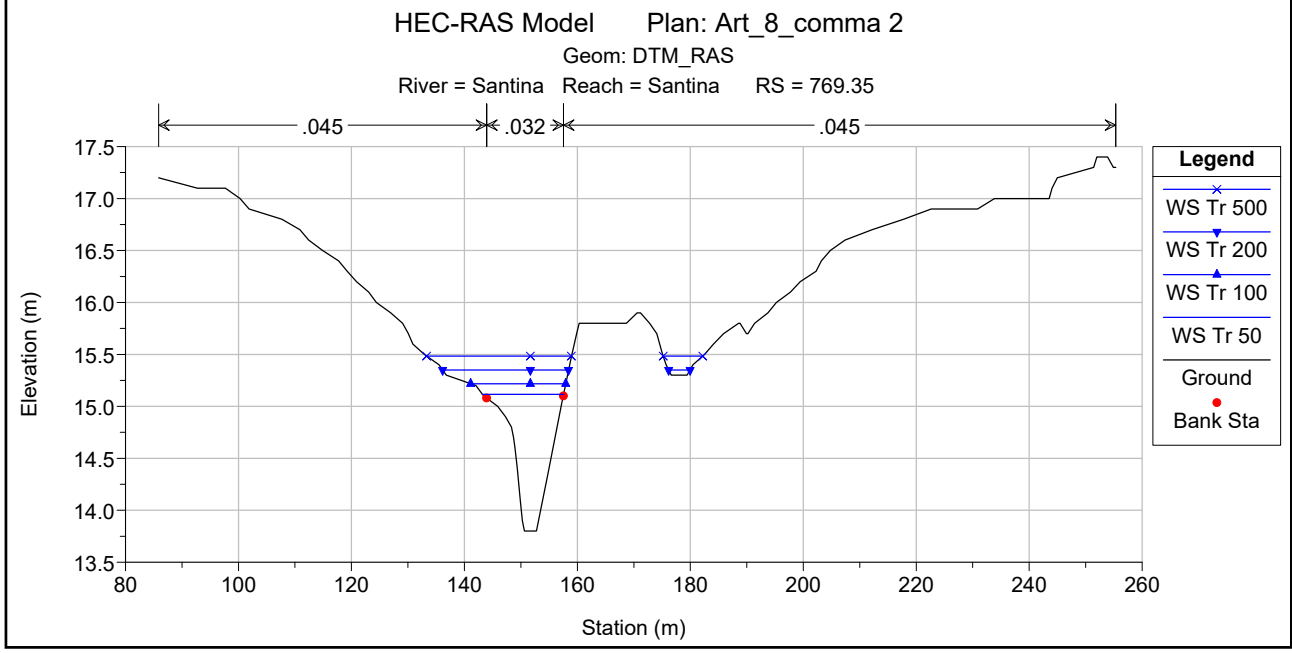
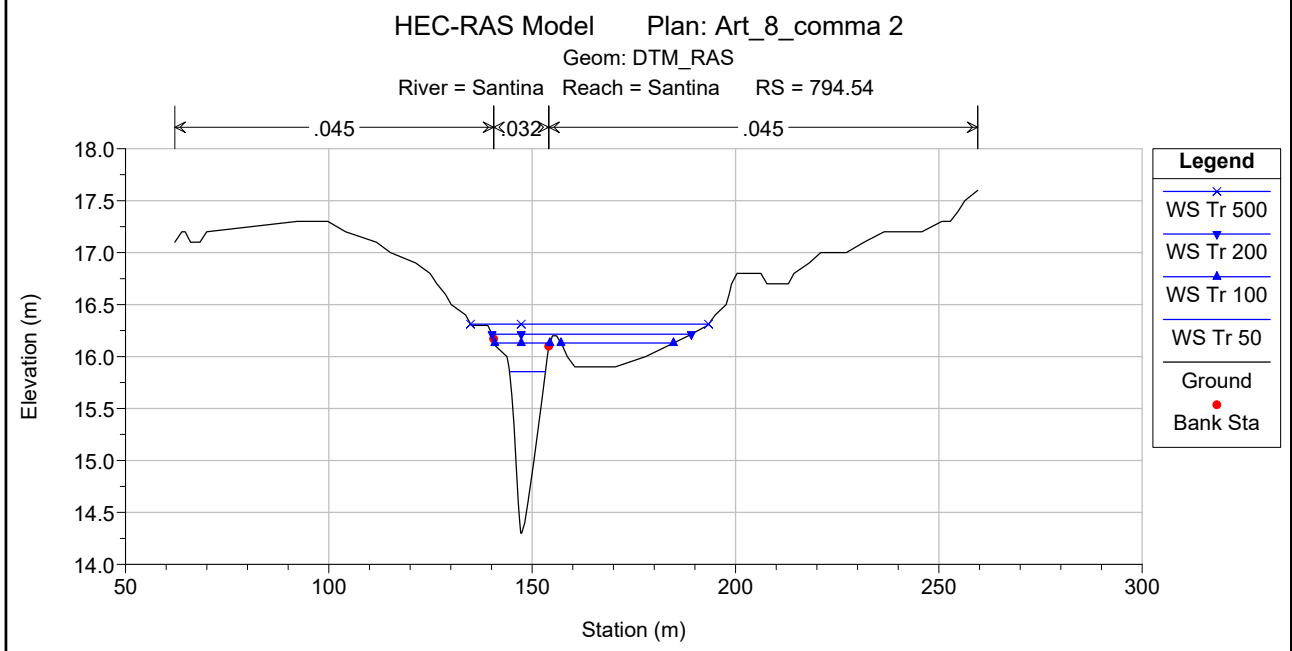
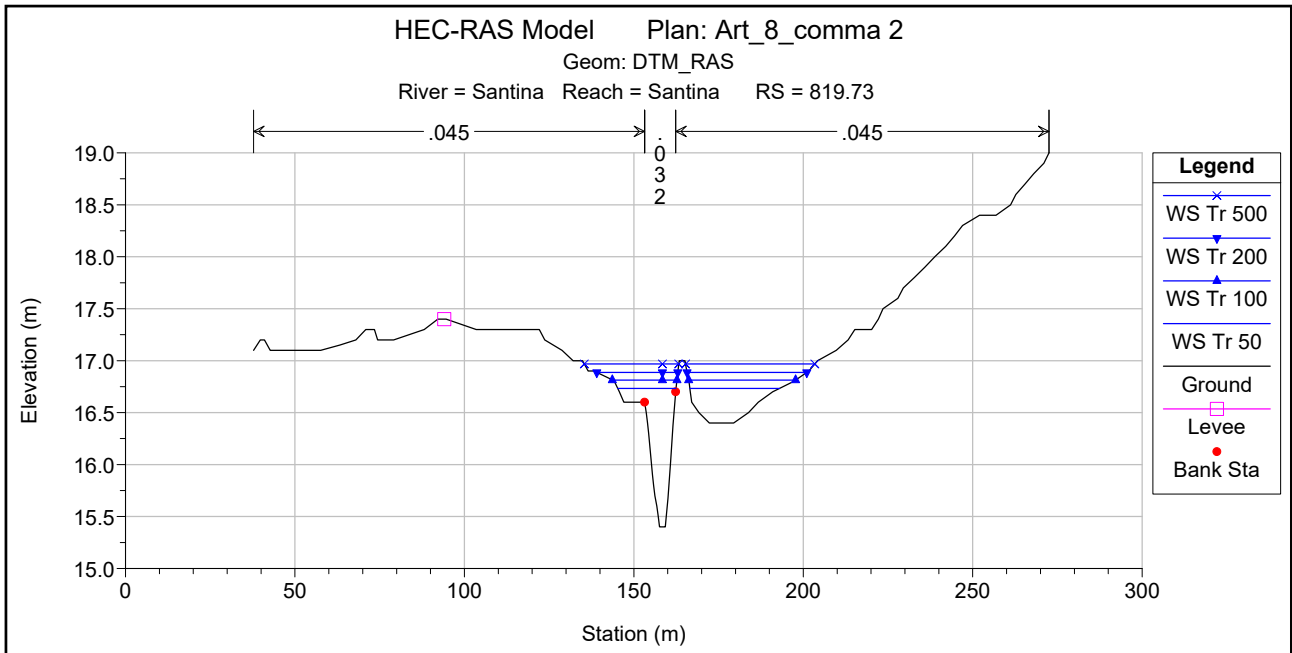








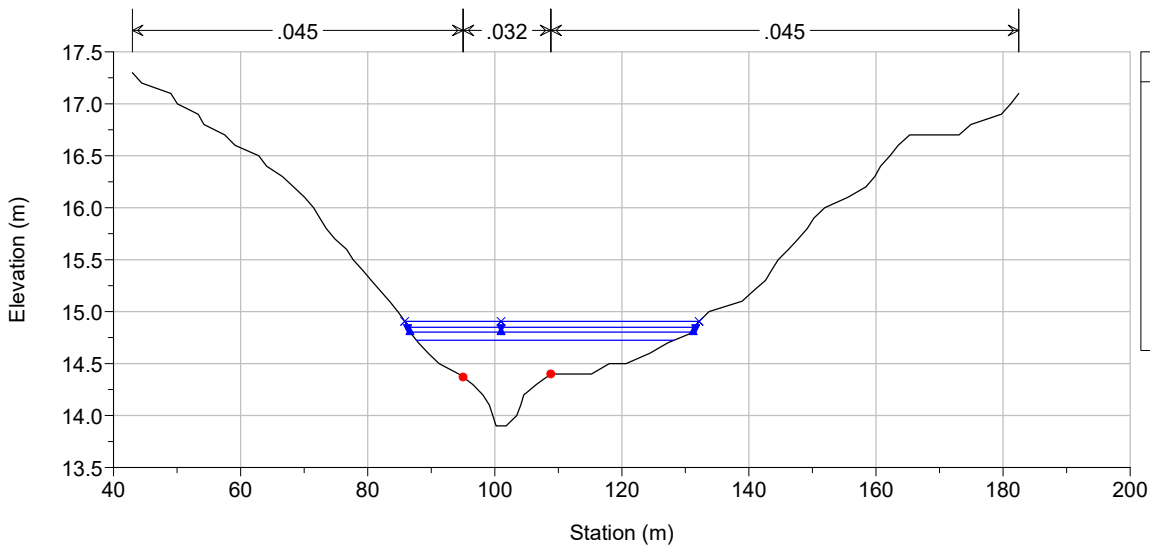




HEC-RAS Model Plan: Art_8_comma 2

Geom: DTM_RAS

River = Santina Reach = Santina RS = 743.98



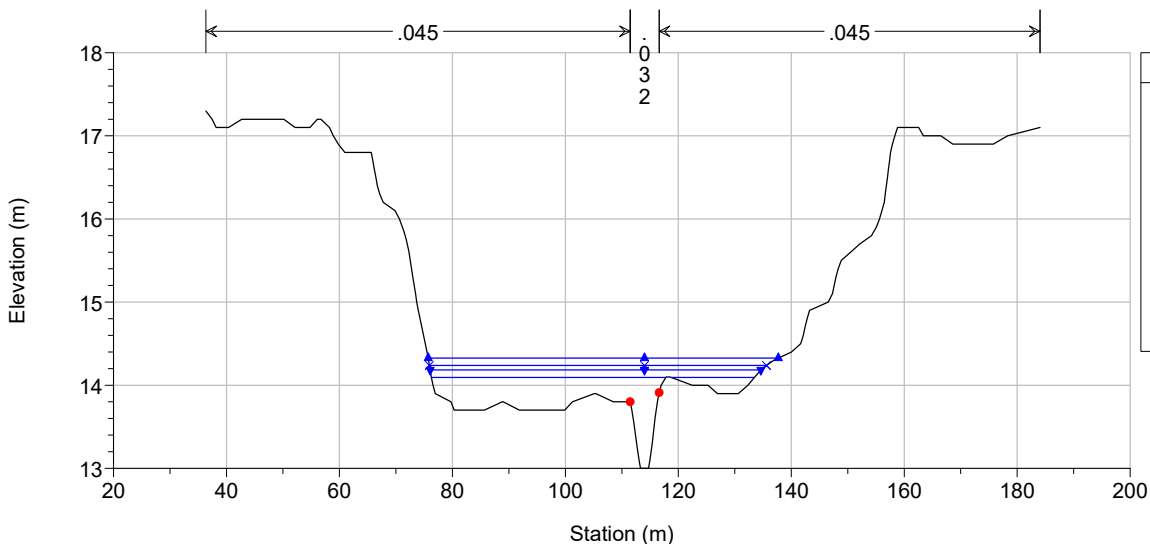
Legend

- WS Tr 500 (x)
- WS Tr 200 (inverted triangle)
- WS Tr 100 (triangle)
- WS Tr 50 (circle)
- Ground (solid line)
- Bank Sta (red dot)

HEC-RAS Model Plan: Art_8_comma 2

Geom: DTM_RAS

River = Santina Reach = Santina RS = 718.61



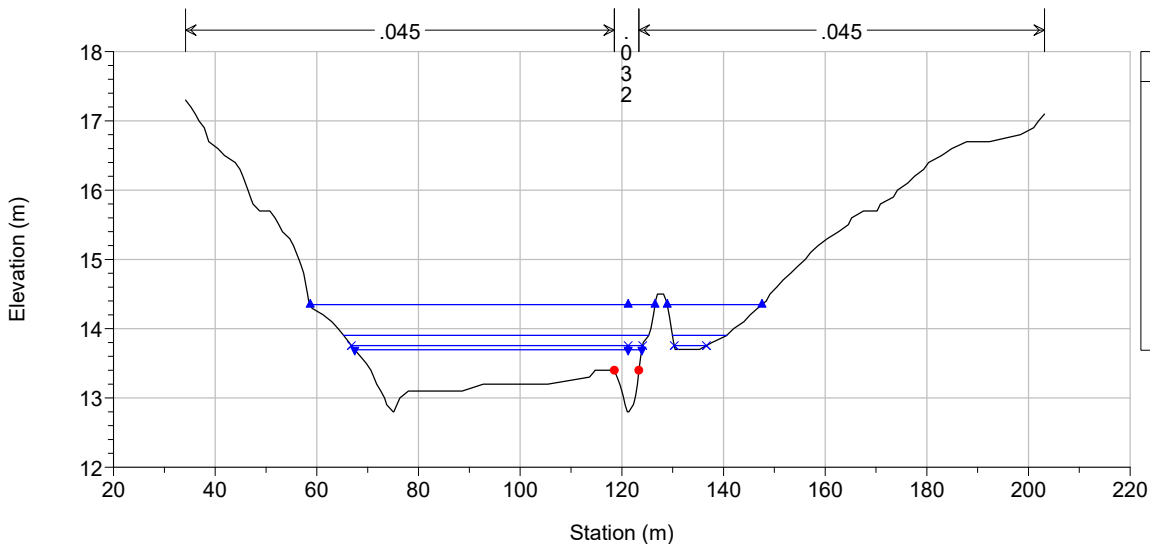
Legend

- WS Tr 100 (triangle)
- WS Tr 500 (x)
- WS Tr 200 (inverted triangle)
- WS Tr 50 (circle)
- Ground (solid line)
- Bank Sta (red dot)

HEC-RAS Model Plan: Art_8_comma 2

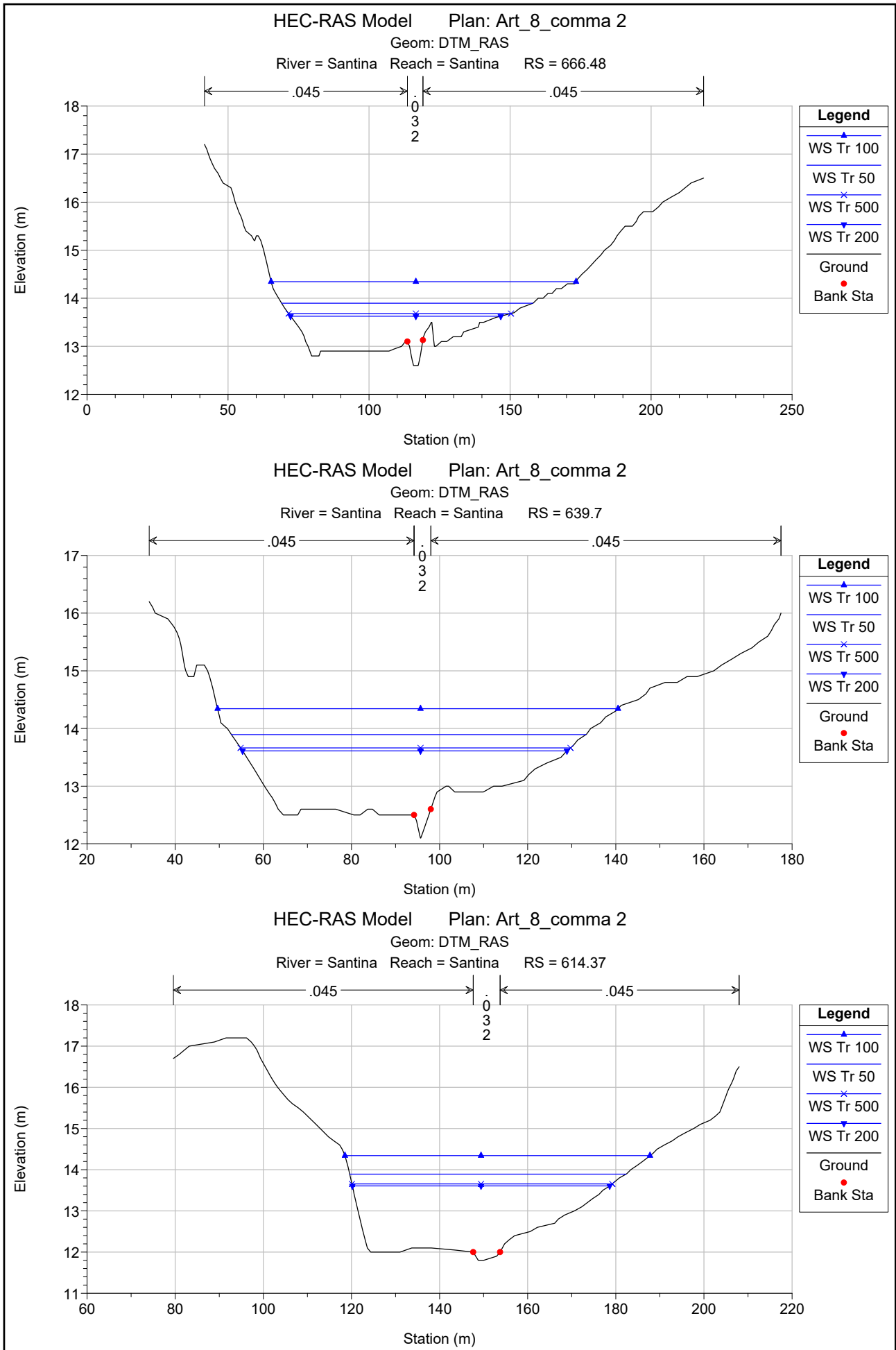
Geom: DTM_RAS

River = Santina Reach = Santina RS = 691.82



Legend

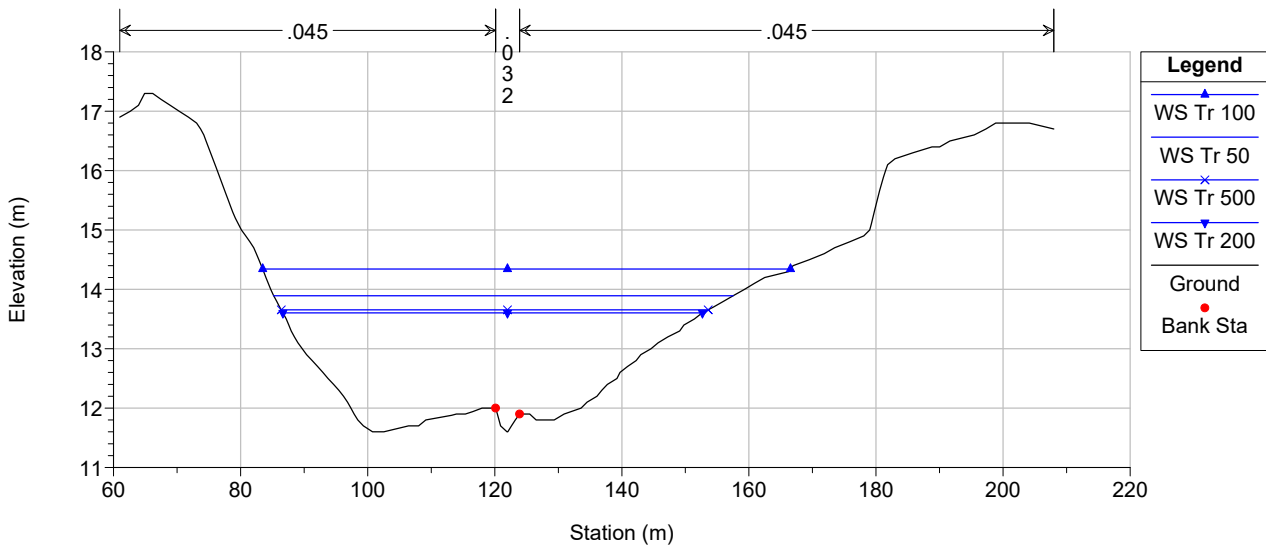
- WS Tr 100 (triangle)
- WS Tr 50 (circle)
- WS Tr 500 (x)
- WS Tr 200 (inverted triangle)
- Ground (solid line)
- Bank Sta (red dot)



HEC-RAS Model Plan: Art_8_comma 2

Geom: DTM_RAS

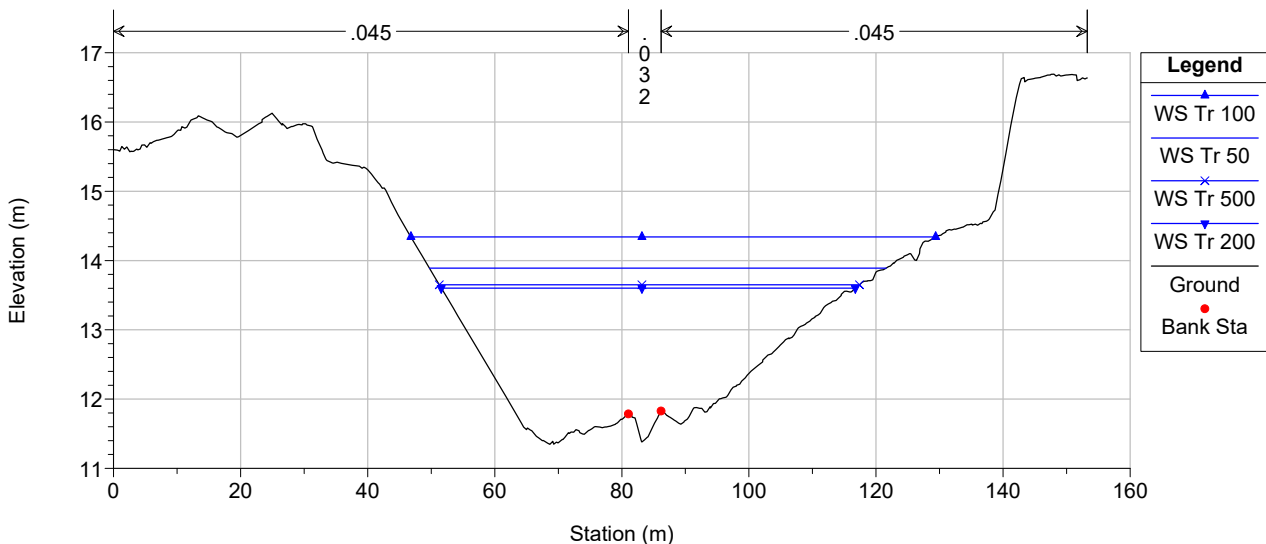
River = Santina Reach = Santina RS = 589.98



HEC-RAS Model Plan: Art_8_comma 2

Geom: DTM_RAS

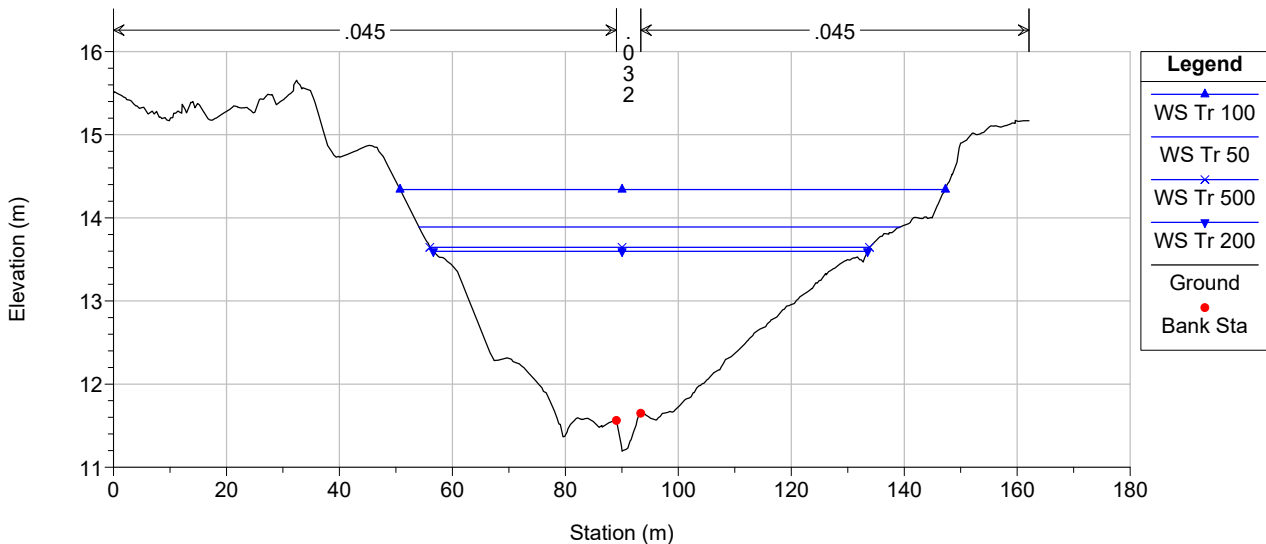
River = Santina Reach = Santina RS = 565.59

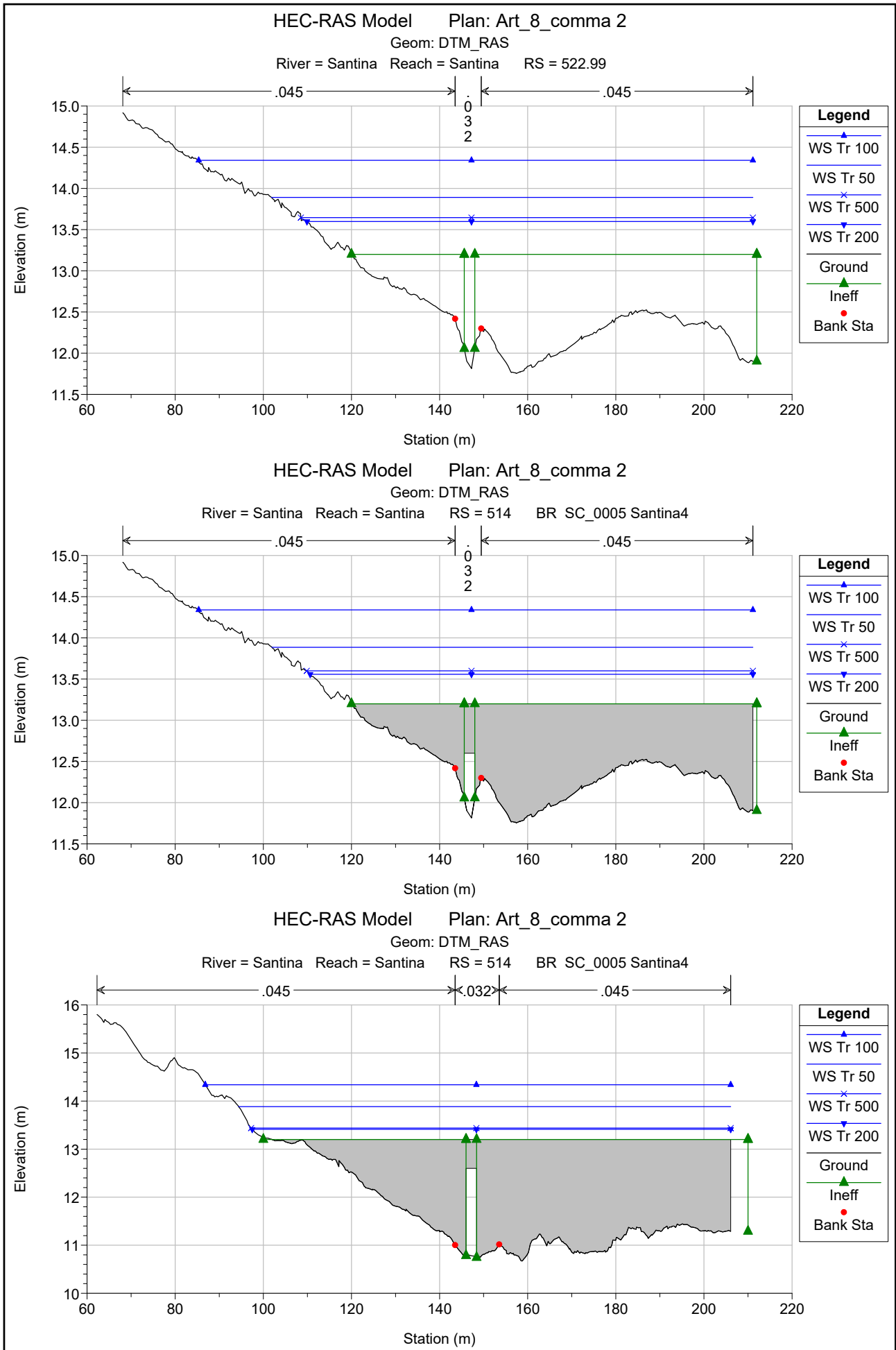


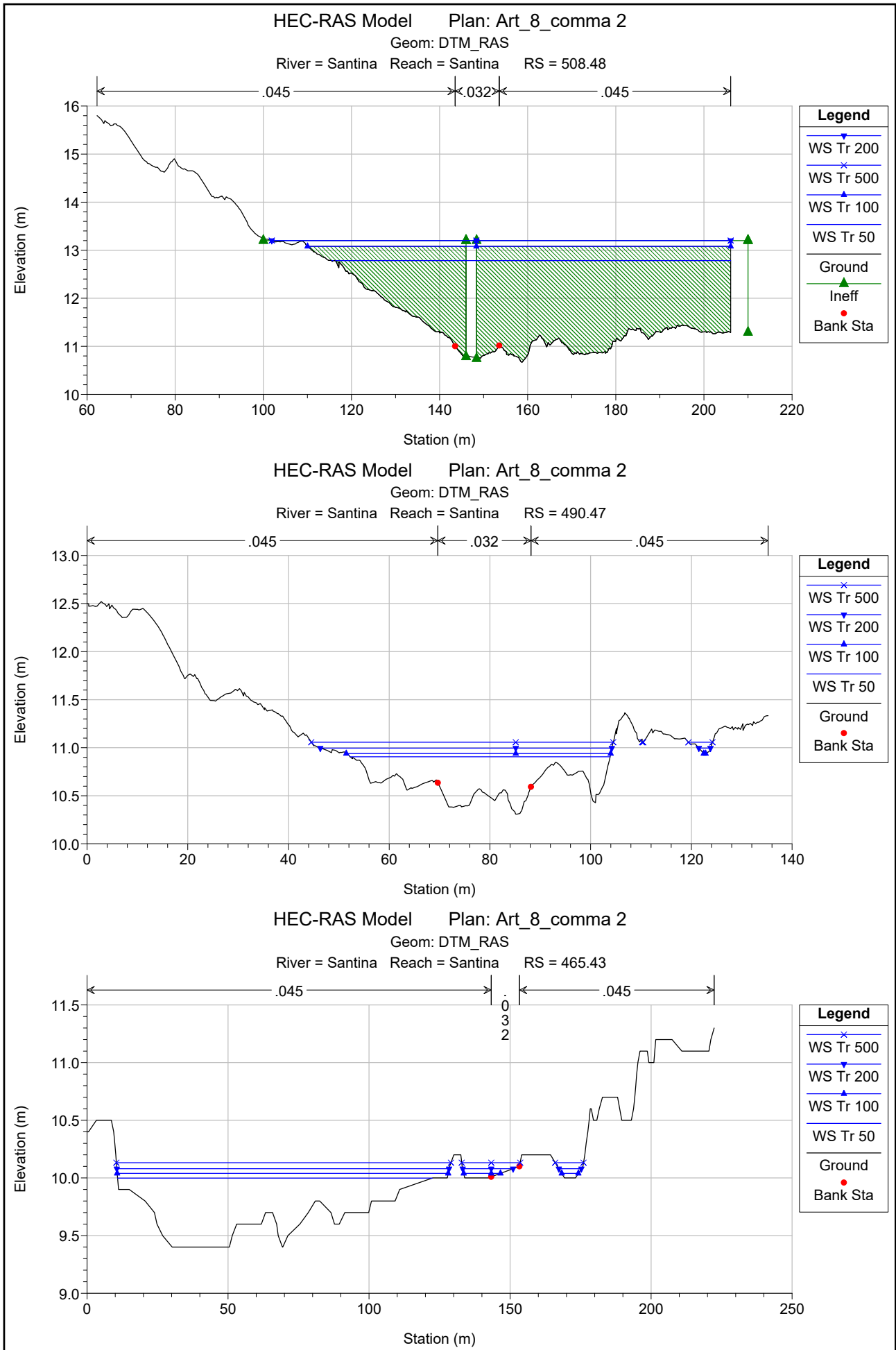
HEC-RAS Model Plan: Art_8_comma 2

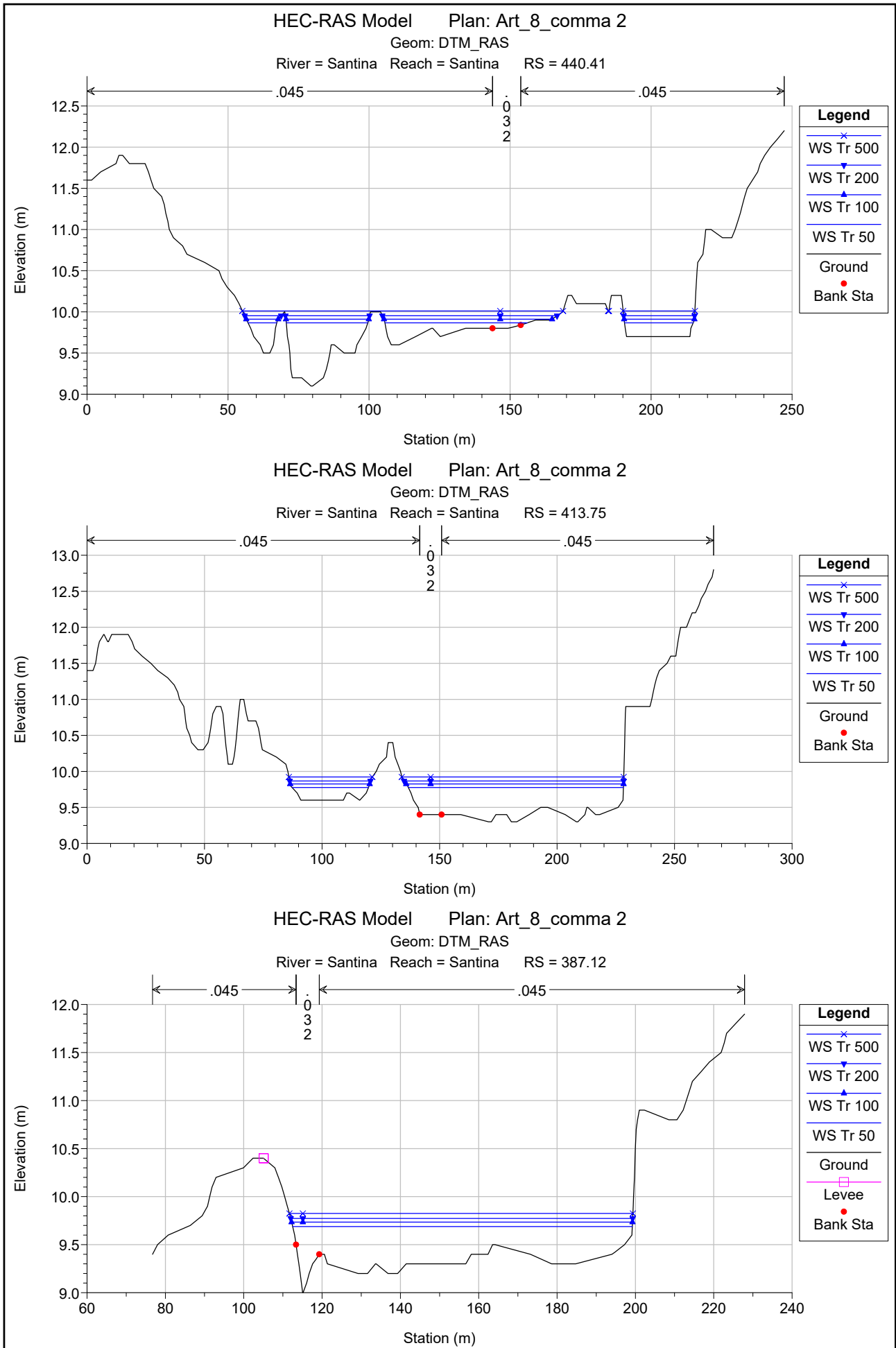
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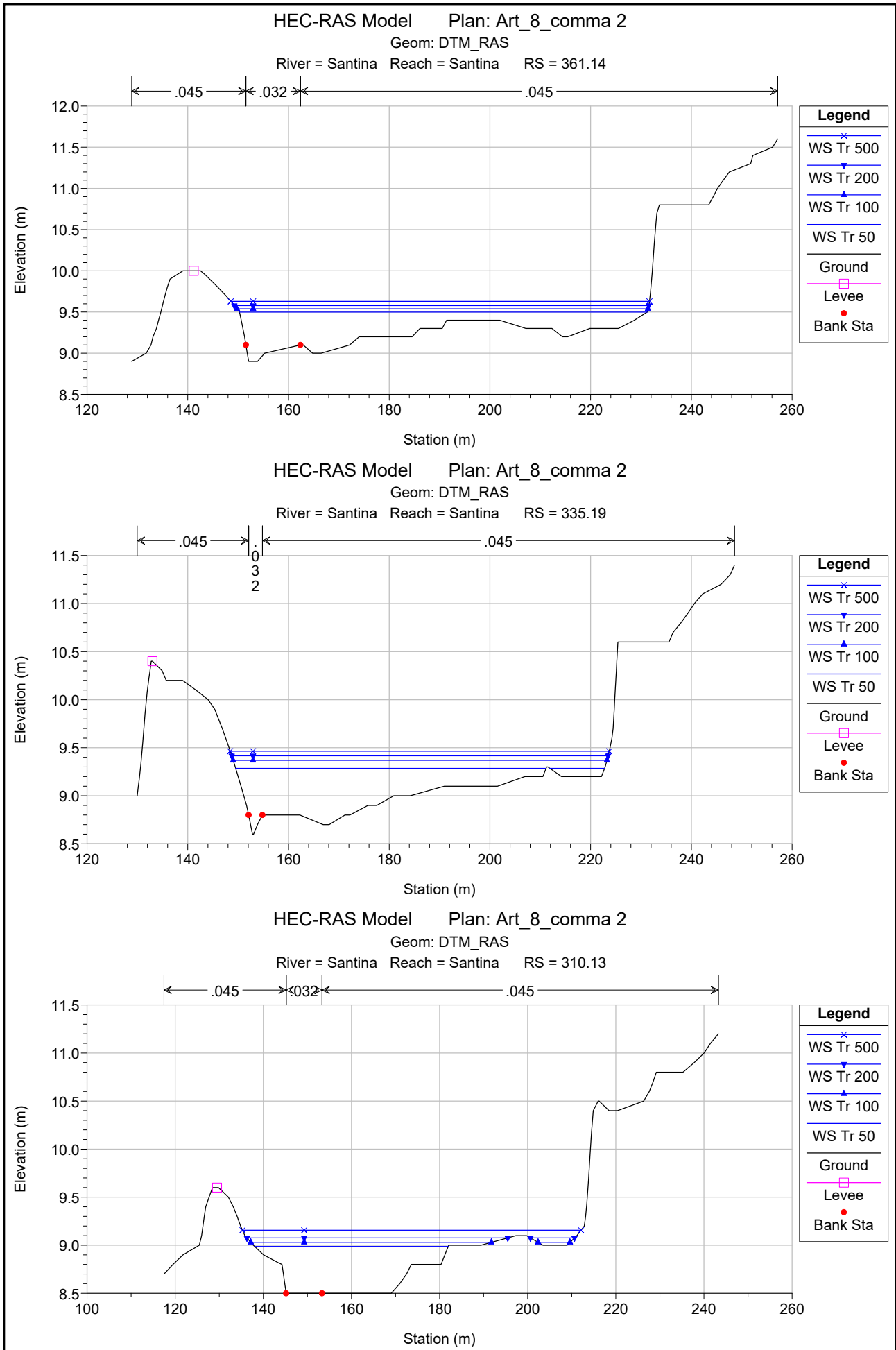
River = Santina Reach = Santina RS = 540.56

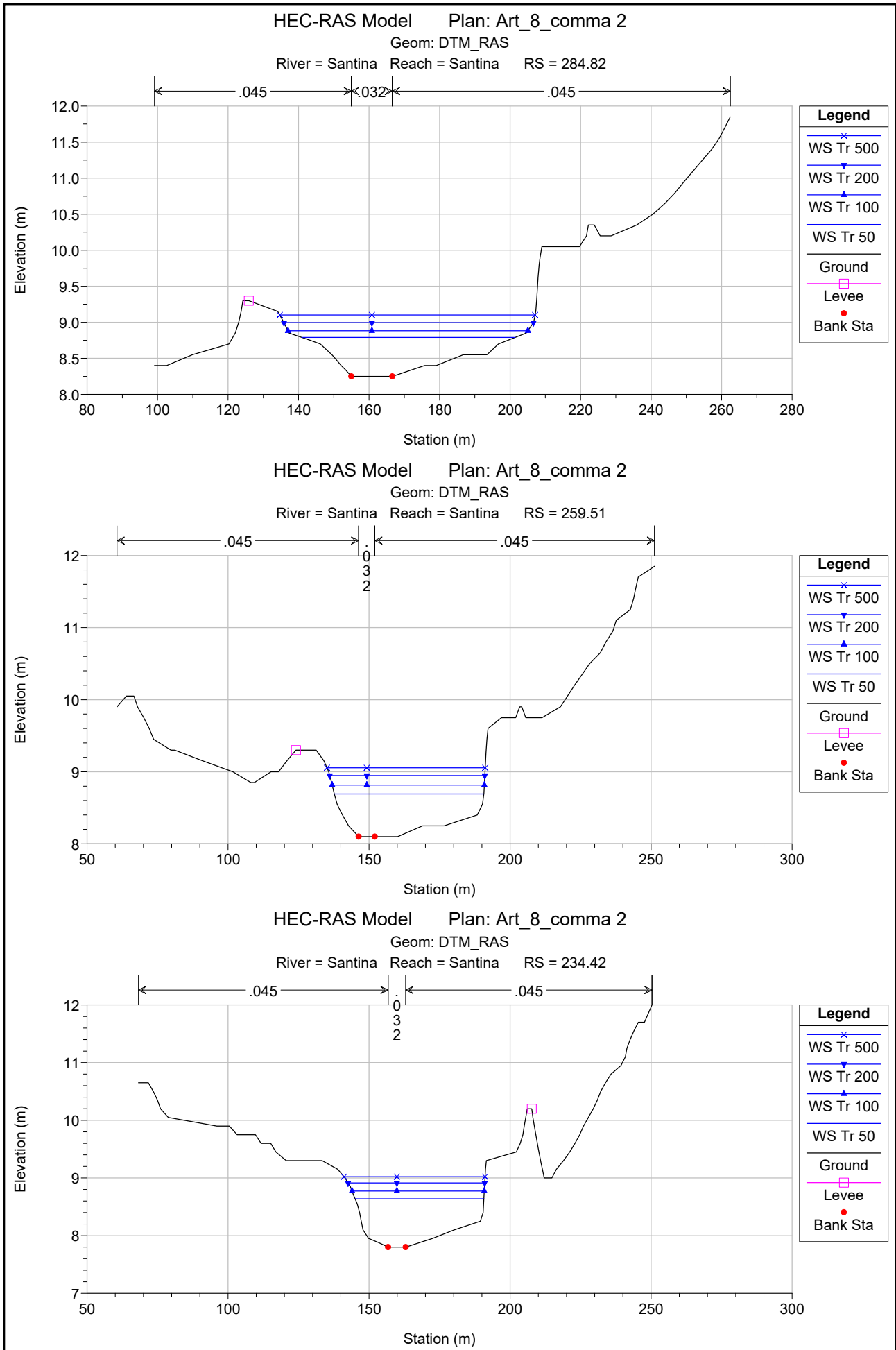


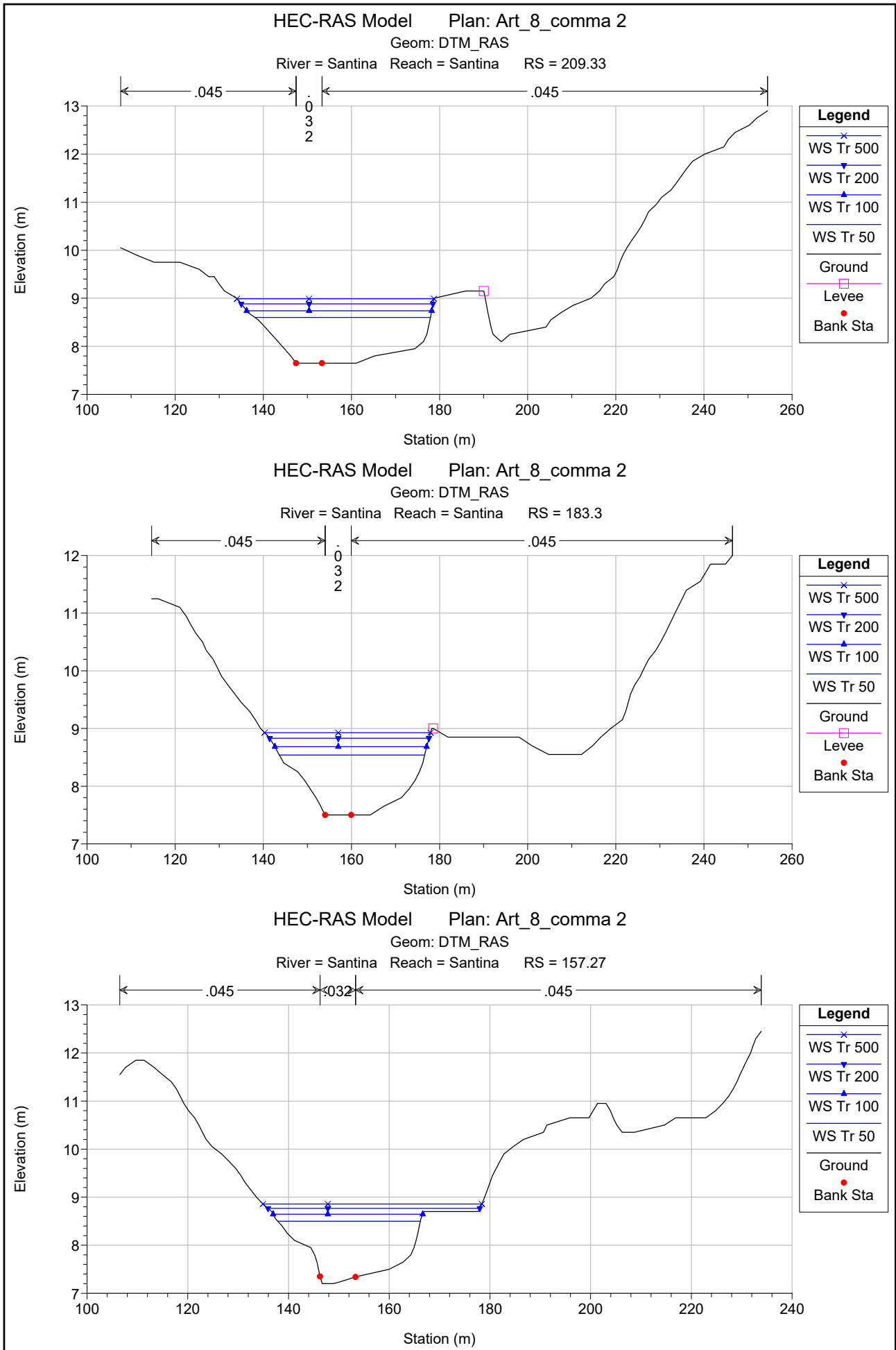


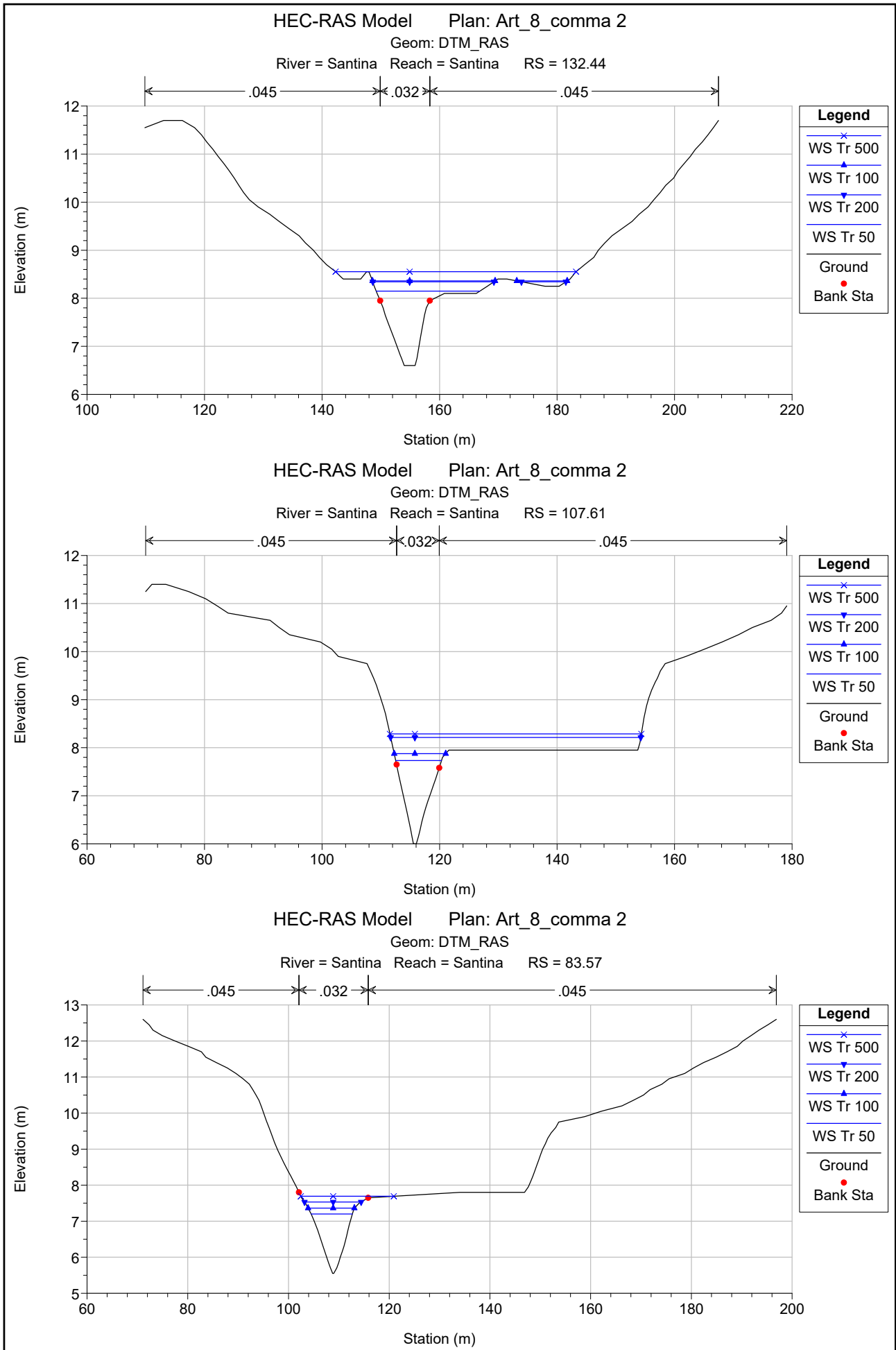


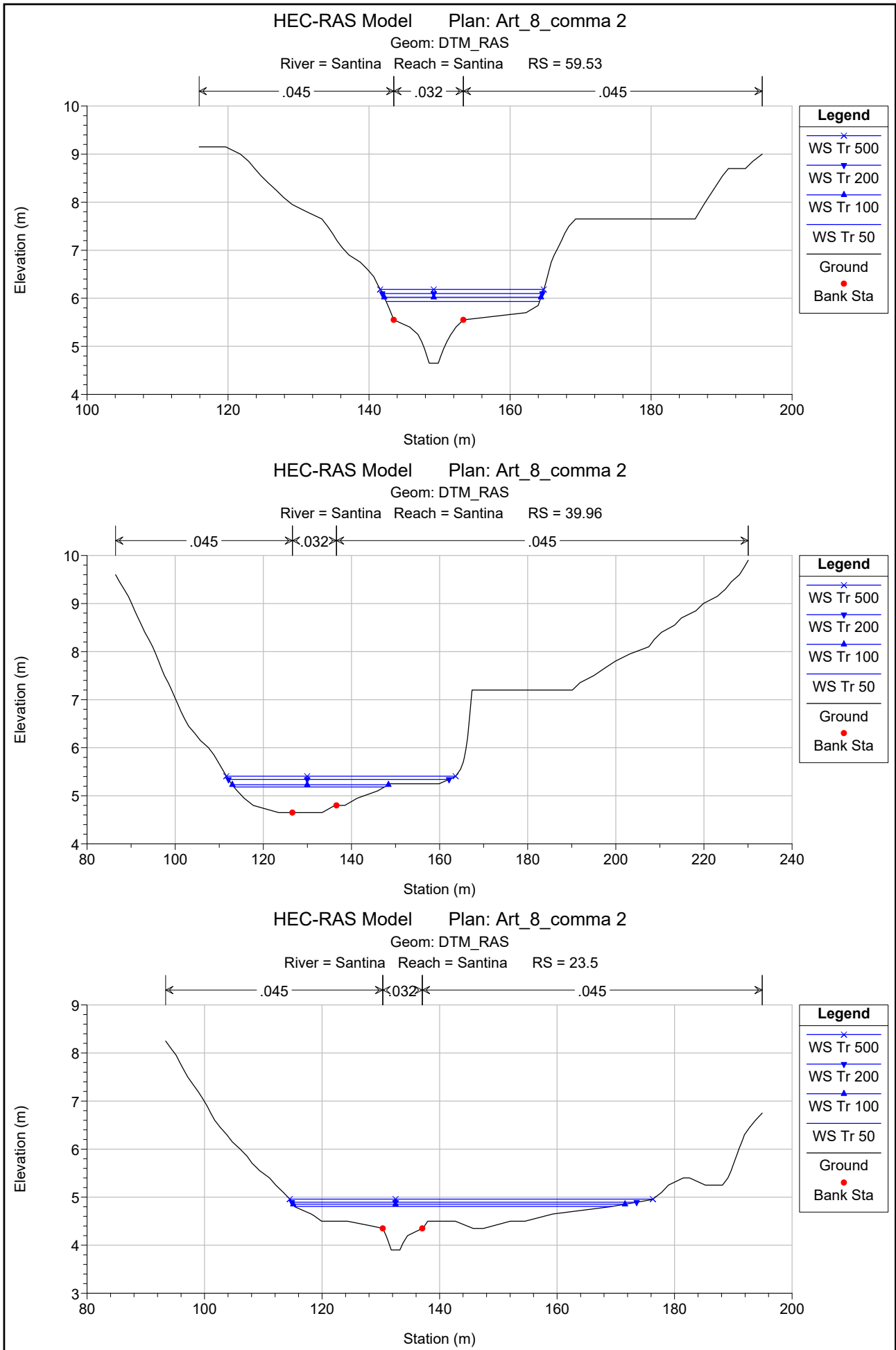








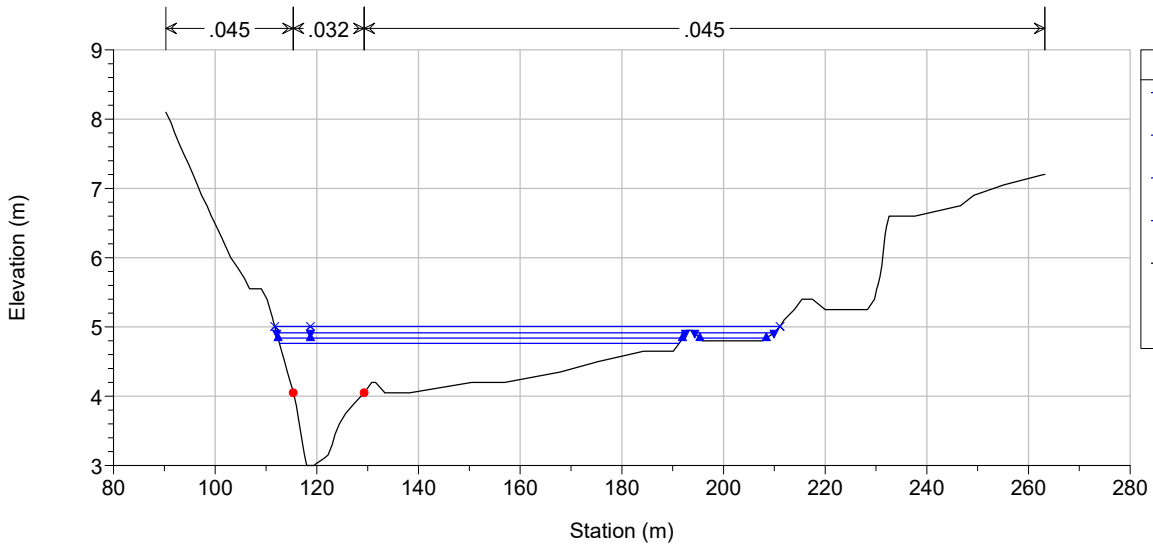




HEC-RAS Model Plan: Art_8_comma 2

Geom: DTM_RAS

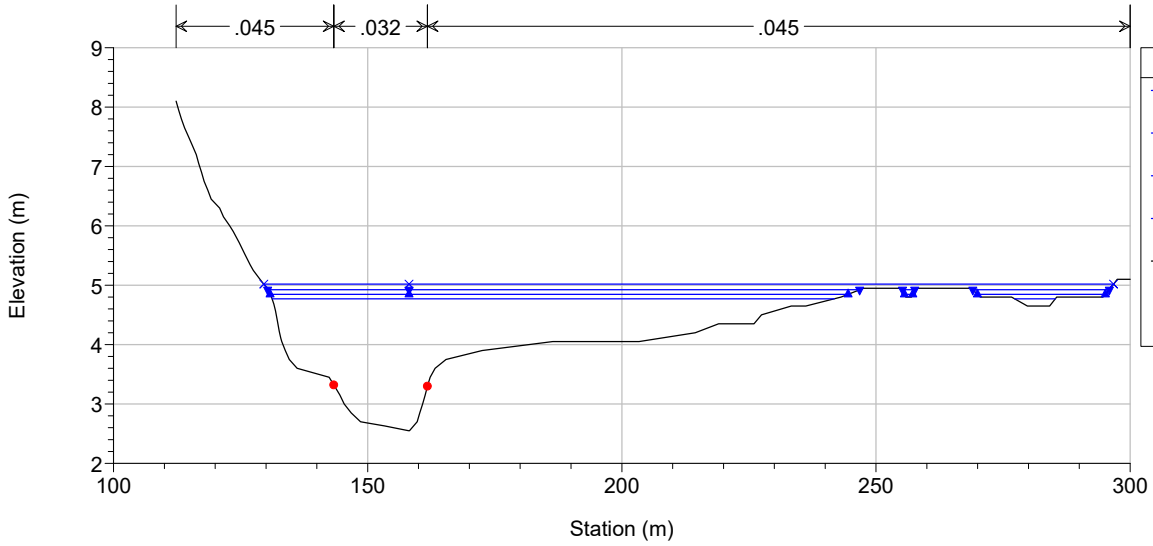
River = Santina Reach = Santina RS = 3



HEC-RAS Model Plan: Art_8_comma 2

Geom: DTM_RAS

River = Santina Reach = Santina RS = 1



HEC-RAS Plan: Stato attuale River: Asta_143245 Reach: Asta_143245

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta_143245	621	Tr50	8.50	10.41	11.15	11.15	11.37	0.025447	2.08	4.11	9.59	0.98
Asta_143245	621	Tr100	10.11	10.41	11.21	11.21	11.45	0.024680	2.21	4.64	10.15	0.99
Asta_143245	621	Tr200	11.74	10.41	11.25	11.25	11.53	0.024896	2.34	5.11	10.98	1.00
Asta_143245	621	Tr500	13.98	10.41	11.38	11.38	11.61	0.015983	2.17	7.12	18.79	0.83
Asta_143245	611	Tr50	8.50	10.47	11.18		11.23	0.004281	1.07	9.09	19.89	0.43
Asta_143245	611	Tr100	10.11	10.47	11.24		11.29	0.004125	1.12	10.36	20.32	0.43
Asta_143245	611	Tr200	11.74	10.47	11.30		11.36	0.003904	1.16	11.67	20.71	0.42
Asta_143245	611	Tr500	13.98	10.47	11.37		11.43	0.003992	1.24	13.02	21.12	0.43
Asta_143245	601	Tr50	8.50	10.21	11.17		11.20	0.001515	0.76	13.04	23.57	0.27
Asta_143245	601	Tr100	10.11	10.21	11.23		11.26	0.001592	0.82	14.56	24.81	0.28
Asta_143245	601	Tr200	11.74	10.21	11.30		11.33	0.001627	0.87	16.28	29.07	0.28
Asta_143245	601	Tr500	13.98	10.21	11.36		11.40	0.001794	0.95	18.30	34.07	0.30
Asta_143245	589	Tr50	8.50	10.17	11.15		11.17	0.002240	0.90	13.09	32.46	0.32
Asta_143245	589	Tr100	10.11	10.17	11.21		11.24	0.002060	0.91	15.29	33.35	0.31
Asta_143245	589	Tr200	11.74	10.17	11.28		11.31	0.001915	0.92	17.55	34.93	0.30
Asta_143245	589	Tr500	13.98	10.17	11.34		11.37	0.001966	0.98	19.89	36.92	0.31
Asta_143245	581	Tr50	8.50	10.25	11.15		11.16	0.000807	0.55	20.24	40.89	0.19
Asta_143245	581	Tr100	10.11	10.25	11.21		11.23	0.000803	0.58	23.04	43.26	0.20
Asta_143245	581	Tr200	11.74	10.25	11.28		11.29	0.000788	0.60	26.03	46.35	0.20
Asta_143245	581	Tr500	13.98	10.25	11.35		11.36	0.000814	0.64	29.11	47.81	0.20
Asta_143245	575	Tr50	8.50	10.24	11.14		11.15	0.001050	0.64	17.85	37.33	0.22
Asta_143245	575	Tr100	10.11	10.24	11.20		11.22	0.001034	0.66	20.41	39.53	0.22
Asta_143245	575	Tr200	11.74	10.24	11.27		11.29	0.001016	0.69	23.15	43.01	0.22
Asta_143245	575	Tr500	13.98	10.24	11.34		11.35	0.001045	0.73	25.98	44.63	0.23
Asta_143245	568	Tr50	8.50	10.22	11.10	10.88	11.14	0.003205	0.94	11.04	26.97	0.37
Asta_143245	568	Tr100	10.11	10.22	11.17	10.92	11.21	0.002971	0.97	12.89	28.47	0.36
Asta_143245	568	Tr200	11.74	10.22	11.23	10.96	11.27	0.002832	1.00	14.84	31.69	0.36
Asta_143245	568	Tr500	13.98	10.22	11.30	11.00	11.34	0.002850	1.06	16.89	33.51	0.37
Asta_143245	561	Tr50	8.50	10.26	11.07	10.81	11.11	0.003791	1.02	9.99	28.82	0.40
Asta_143245	561	Tr100	10.11	10.26	11.14	10.87	11.18	0.003329	1.03	12.17	31.01	0.39
Asta_143245	561	Tr200	11.74	10.26	11.21	10.94	11.25	0.002909	1.02	14.46	33.23	0.37
Asta_143245	561	Tr500	13.98	10.26	11.27	11.01	11.32	0.002909	1.07	16.65	36.45	0.37
Asta_143245	555	Tr50	8.50	10.10	10.97	10.82	11.07	0.008530	1.46	6.60	16.99	0.60
Asta_143245	555	Tr100	10.11	10.10	11.05	10.87	11.15	0.007391	1.47	8.01	20.35	0.57
Asta_143245	555	Tr200	11.74	10.10	11.12	10.93	11.22	0.006826	1.51	9.70	25.62	0.55
Asta_143245	555	Tr500	13.98	10.10	11.19	10.96	11.29	0.006445	1.55	11.58	31.83	0.55
Asta_143245	550	Tr50	8.50	9.73	10.97	10.63	11.03	0.003981	1.12	8.07	15.84	0.42
Asta_143245	550	Tr100	10.11	9.73	11.05	10.69	11.11	0.003896	1.19	9.29	16.71	0.42
Asta_143245	550	Tr200	11.74	9.73	11.11	10.76	11.19	0.003857	1.24	10.44	17.72	0.42
Asta_143245	550	Tr500	13.98	9.73	11.20	10.83	11.25	0.002603	1.09	17.77	45.15	0.35
Asta_143245	531	Tr50	8.50	9.82	10.63	10.63	10.87	0.025732	2.15	3.99	9.18	0.99
Asta_143245	531	Tr100	10.11	9.82	10.70	10.70	10.95	0.023002	2.22	4.64	9.94	0.96
Asta_143245	531	Tr200	11.74	9.82	10.76	10.76	11.03	0.021337	2.30	5.28	10.89	0.94
Asta_143245	531	Tr500	13.98	9.82	10.84	10.84	11.13	0.019547	2.39	6.19	12.04	0.92
Asta_143245	525	Tr50	8.50	9.73	10.49	10.45	10.68	0.019459	1.93	4.50	10.29	0.88
Asta_143245	525	Tr100	10.11	9.73	10.53	10.52	10.75	0.020764	2.11	4.94	10.62	0.92
Asta_143245	525	Tr200	11.74	9.73	10.58	10.57	10.83	0.020688	2.23	5.47	10.99	0.93
Asta_143245	525	Tr500	13.98	9.73	10.65	10.65	10.92	0.020236	2.37	6.20	11.51	0.93
Asta_143245	521	Tr50	8.50	9.81	10.41	10.41	10.59	0.026896	1.92	4.42	11.38	0.98
Asta_143245	521	Tr100	10.11	9.81	10.46	10.46	10.66	0.025873	2.02	5.00	11.91	0.99
Asta_143245	521	Tr200	11.74	9.81	10.50	10.50	10.73	0.025179	2.13	5.54	12.48	0.99
Asta_143245	521	Tr500	13.98	9.81	10.56	10.56	10.82	0.023244	2.23	6.39	13.95	0.97
Asta_143245	516	Tr50	8.50	9.81	10.39		10.47	0.010350	1.33	7.48	25.06	0.63
Asta_143245	516	Tr100	10.11	9.81	10.42		10.51	0.011331	1.45	8.18	25.40	0.67
Asta_143245	516	Tr200	11.74	9.81	10.45		10.55	0.012070	1.55	8.88	26.09	0.69
Asta_143245	516	Tr500	13.98	9.81	10.48		10.60	0.013429	1.71	9.74	27.19	0.74
Asta_143245	509	Tr50	8.50	9.96	10.34		10.39	0.011549	0.99	8.82	34.63	0.61
Asta_143245	509	Tr100	10.11	9.96	10.37		10.43	0.011304	1.05	9.88	34.89	0.62
Asta_143245	509	Tr200	11.74	9.96	10.40		10.46	0.011012	1.11	10.98	35.52	0.62
Asta_143245	509	Tr500	13.98	9.96	10.44		10.51	0.010997	1.19	12.30	36.29	0.63
Asta_143245	501	Tr50	8.50	9.31	10.15	10.15	10.27	0.016601	1.89	6.43	27.09	0.80
Asta_143245	501	Tr100	10.11	9.31	10.20	10.20	10.32	0.014595	1.88	8.06	32.34	0.77
Asta_143245	501	Tr200	11.74	9.31	10.23	10.23	10.35	0.015151	1.97	8.96	34.09	0.79
Asta_143245	501	Tr500	13.98	9.31	10.27	10.27	10.40	0.014798	2.04	10.47	35.99	0.79
Asta_143245	495	Tr50	8.50	8.82	9.83		9.91	0.008665	1.49	7.24	18.57	0.59
Asta_143245	495	Tr100	10.11	8.82	9.86		9.96	0.009243	1.60	7.96	18.85	0.62
Asta_143245	495	Tr200	11.74	8.82	9.90		10.01	0.009402	1.67	8.75	19.14	0.63
Asta_143245	495	Tr500	13.98	8.82	9.94		10.07	0.010634	1.84	9.43	19.37	0.67

HEC-RAS Plan: Stato attuale River: Asta_143245 Reach: Asta_143245 (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
Asta_143245	481	Tr50	8.50	8.83	9.83	9.46	9.85	0.001565	0.75	15.40	36.81	0.27
Asta_143245	481	Tr100	10.11	8.83	9.87	9.50	9.89	0.001696	0.81	16.96	38.19	0.28
Asta_143245	481	Tr200	11.74	8.83	9.91	9.54	9.94	0.001762	0.85	18.72	40.02	0.29
Asta_143245	481	Tr500	13.98	8.83	9.95	9.57	9.98	0.001971	0.93	20.39	40.92	0.31
Asta_143245	470	Tr50	8.50	9.15	9.68	9.68	9.80	0.020891	1.68	6.14	26.03	0.87
Asta_143245	470	Tr100	10.11	9.15	9.71	9.71	9.84	0.020594	1.76	7.01	27.95	0.87
Asta_143245	470	Tr200	11.74	9.15	9.72	9.72	9.88	0.025208	1.97	7.26	28.43	0.97
Asta_143245	470	Tr500	13.98	9.15	9.79	9.79	9.93	0.019274	1.90	9.13	29.84	0.87
Asta_143245	461	Tr50	8.50	8.75	9.27	9.27	9.38	0.023788	1.60	6.28	29.91	0.90
Asta_143245	461	Tr100	10.11	8.75	9.31	9.31	9.42	0.022541	1.67	7.36	32.44	0.89
Asta_143245	461	Tr200	11.74	8.75	9.34	9.34	9.46	0.021894	1.73	8.28	33.56	0.89
Asta_143245	461	Tr500	13.98	8.75	9.37	9.37	9.50	0.021101	1.80	9.51	34.63	0.88
Asta_143245	441	Tr50	8.50	8.40	9.15	8.91	9.16	0.001639	0.64	17.04	44.94	0.26
Asta_143245	441	Tr100	10.11	8.40	9.19	8.94	9.21	0.001711	0.68	18.84	45.33	0.27
Asta_143245	441	Tr200	11.74	8.40	9.23	8.96	9.25	0.001719	0.71	20.75	45.73	0.28
Asta_143245	441	Tr500	13.98	8.40	9.27	8.99	9.30	0.001849	0.77	22.70	46.13	0.29
Asta_143245	419	Tr50	8.50	8.51	8.96	8.96	9.07	0.026126	1.59	6.17	28.76	0.93
Asta_143245	419	Tr100	10.11	8.51	8.99	8.99	9.11	0.024839	1.66	7.06	30.26	0.92
Asta_143245	419	Tr200	11.74	8.51	9.01	9.01	9.14	0.027807	1.81	7.53	31.56	0.98
Asta_143245	419	Tr500	13.98	8.51	9.05	9.05	9.19	0.023208	1.80	9.09	32.77	0.92
Asta_143245	401	Tr50	8.50	8.02	8.95	8.95	8.96	0.000813	0.50	21.31	44.70	0.19
Asta_143245	401	Tr100	10.11	8.02	8.99	8.99	9.00	0.000922	0.55	23.06	46.10	0.20
Asta_143245	401	Tr200	11.74	8.02	9.02	9.02	9.03	0.001033	0.60	24.61	47.15	0.22
Asta_143245	401	Tr500	13.98	8.02	9.07	9.07	9.08	0.001169	0.66	26.70	48.82	0.23
Asta_143245	381	Tr50	8.50	8.16	8.92	8.92	8.94	0.001443	0.61	17.93	46.78	0.25
Asta_143245	381	Tr100	10.11	8.16	8.96	8.96	8.98	0.001586	0.66	19.60	47.91	0.26
Asta_143245	381	Tr200	11.74	8.16	8.99	8.99	9.01	0.001790	0.72	21.03	49.84	0.28
Asta_143245	381	Tr500	13.98	8.16	9.03	9.03	9.05	0.001998	0.79	23.07	52.31	0.30
Asta_143245	360	Tr50	8.50	8.31	8.83	8.77	8.88	0.009919	1.17	9.55	51.96	0.60
Asta_143245	360	Tr100	10.11	8.31	8.86	8.80	8.91	0.009326	1.20	11.50	54.58	0.59
Asta_143245	360	Tr200	11.74	8.31	8.89	8.81	8.94	0.009181	1.24	12.87	54.84	0.59
Asta_143245	360	Tr500	13.98	8.31	8.93	8.86	8.98	0.007806	1.22	15.35	55.32	0.56
Asta_143245	350	Tr50	8.50	8.18	8.60	8.60	8.71	0.029739	1.63	5.85	25.83	0.99
Asta_143245	350	Tr100	10.11	8.18	8.62	8.62	8.75	0.029673	1.73	6.55	26.25	1.00
Asta_143245	350	Tr200	11.74	8.18	8.65	8.65	8.79	0.028217	1.79	7.32	26.60	0.99
Asta_143245	350	Tr500	13.98	8.18	8.68	8.68	8.84	0.028689	1.92	8.14	26.95	1.01
Asta_143245	337	Tr50	8.50	7.57	8.46	8.46	8.49	0.002873	0.92	11.41	26.61	0.35
Asta_143245	337	Tr100	10.11	7.57	8.50	8.50	8.54	0.003141	1.00	12.51	27.21	0.37
Asta_143245	337	Tr200	11.74	7.57	8.54	8.54	8.58	0.003381	1.07	13.60	28.16	0.39
Asta_143245	337	Tr500	13.98	7.57	8.58	8.58	8.63	0.003748	1.17	14.87	29.60	0.42
Asta_143245	327	Tr50	8.50	7.50	8.45	8.15	8.47	0.001362	0.70	15.99	34.44	0.25
Asta_143245	327	Tr100	10.11	7.50	8.49	8.18	8.51	0.001512	0.76	17.41	35.27	0.27
Asta_143245	327	Tr200	11.74	7.50	8.53	8.21	8.55	0.001624	0.82	18.84	35.88	0.28
Asta_143245	327	Tr500	13.98	7.50	8.57	8.24	8.60	0.001818	0.89	20.43	36.51	0.30
Asta_143245	316	Tr50	8.50	7.84	8.31	8.31	8.42	0.030815	1.43	5.89	26.28	0.95
Asta_143245	316	Tr100	10.11	7.84	8.34	8.34	8.46	0.030560	1.30	6.74	28.28	0.93
Asta_143245	316	Tr200	11.74	7.84	8.36	8.36	8.49	0.033408	1.37	7.25	29.04	0.97
Asta_143245	316	Tr500	13.98	7.84	8.41	8.41	8.54	0.027878	1.33	8.74	31.11	0.90
Asta_143245	301	Tr50	8.50	7.50	7.87	7.80	7.92	0.012946	1.00	8.38	32.86	0.64
Asta_143245	301	Tr100	10.11	7.50	7.92	7.83	7.97	0.009893	0.99	10.13	33.21	0.58
Asta_143245	301	Tr200	11.74	7.50	7.96	7.85	8.01	0.009571	1.04	11.22	33.43	0.58
Asta_143245	301	Tr500	13.98	7.50	8.00	7.88	8.06	0.009150	1.11	12.66	33.64	0.57
Asta_143245	297	Tr50	8.50	7.43	7.85	7.71	7.88	0.006158	0.85	9.97	29.55	0.46
Asta_143245	297	Tr100	10.11	7.43	7.90	7.74	7.94	0.005351	0.88	11.68	30.30	0.44
Asta_143245	297	Tr200	11.74	7.43	7.94	7.77	7.98	0.005684	0.96	12.65	30.87	0.46
Asta_143245	297	Tr500	13.98	7.43	7.98	7.79	8.03	0.005965	1.04	13.97	31.51	0.48
Asta_143245	281	Tr50	8.50	7.30	7.69	7.62	7.75	0.011052	1.14	8.40	31.06	0.62
Asta_143245	281	Tr100	10.11	7.30	7.65	7.65	7.76	0.027172	1.62	7.02	30.35	0.95
Asta_143245	281	Tr200	11.74	7.30	7.67	7.67	7.80	0.026104	1.68	7.84	30.78	0.95
Asta_143245	281	Tr500	13.98	7.30	7.71	7.71	7.84	0.025960	1.78	8.80	31.25	0.96
Asta_143245	276	Tr50	8.50	7.21	7.53	7.53	7.66	0.034409	1.74	5.97	35.57	1.06
Asta_143245	276	Tr100	10.11	7.21	7.55	7.55	7.56	0.001178	0.34	29.57	100.06	0.20
Asta_143245	276	Tr200	11.74	7.21	7.55	7.55	7.56	0.001588	0.39	29.57	100.06	0.23
Asta_143245	276	Tr500	13.98	7.21	7.55	7.55	7.56	0.002252	0.47	29.57	100.06	0.27
Asta_143245	251	Tr50	8.50	6.95	7.06	7.06	7.08	0.003336	0.17	18.50	98.16	0.25
Asta_143245	251	Tr100	10.11	6.95	7.09	7.09	7.10	0.003438	0.21	20.92	104.95	0.26
Asta_143245	251	Tr200	11.74	6.95	7.11	7.11	7.13	0.003412	0.26	23.63	109.88	0.28
Asta_143245	251	Tr500	13.98	6.95	7.14	7.14	7.16	0.003398	0.31	27.11	112.89	0.29

HEC-RAS Plan: Stato attuale River: Asta_143245 Reach: Asta_143245 (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
Asta_143245	237	Tr50	8.50	6.66	7.04	6.84	7.05	0.001226	0.32	28.70	123.20	0.20
Asta_143245	237	Tr100	10.11	6.66	7.07	6.86	7.07	0.001286	0.34	31.54	124.49	0.21
Asta_143245	237	Tr200	11.74	6.66	7.09	6.88	7.10	0.001284	0.36	34.73	126.15	0.21
Asta_143245	237	Tr500	13.98	6.66	7.12	6.89	7.13	0.001316	0.39	38.67	129.33	0.21
Asta_143245	231	Tr50	8.50	6.43	7.04	6.83	7.04	0.001102	0.35	29.73	124.95	0.19
Asta_143245	231	Tr100	10.11	6.43	7.06	6.85	7.06	0.001169	0.37	32.56	126.08	0.20
Asta_143245	231	Tr200	11.74	6.43	7.08	6.87	7.09	0.001189	0.40	35.80	129.41	0.20
Asta_143245	231	Tr500	13.98	6.43	7.11	6.88	7.12	0.001220	0.42	39.82	132.10	0.21
Asta_143245	225	Tr50	8.50	6.14	7.04		7.04	0.000143	0.21	58.60	156.08	0.08
Asta_143245	225	Tr100	10.11	6.14	7.06		7.06	0.000170	0.23	62.15	157.33	0.09
Asta_143245	225	Tr200	11.74	6.14	7.08		7.09	0.000189	0.25	66.17	158.46	0.09
Asta_143245	225	Tr500	13.98	6.14	7.12		7.12	0.000214	0.27	71.08	159.32	0.10
Asta_143245	213	Tr50	8.50	6.08	7.04		7.04	0.000061	0.12	75.05	154.07	0.05
Asta_143245	213	Tr100	10.11	6.08	7.06		7.06	0.000078	0.14	78.52	156.62	0.06
Asta_143245	213	Tr200	11.74	6.08	7.08		7.08	0.000092	0.15	82.49	158.30	0.06
Asta_143245	213	Tr500	13.98	6.08	7.11		7.12	0.000112	0.17	87.46	165.89	0.07
Asta_143245	209	Tr50	8.50	5.30	7.03	6.75	7.04	0.001124	0.48	25.04	92.44	0.20
Asta_143245	209	Tr100	10.11	5.30	7.05	6.77	7.06	0.001317	0.53	27.00	94.95	0.22
Asta_143245	209	Tr200	11.74	5.30	7.07	6.79	7.08	0.001408	0.57	29.33	98.03	0.23
Asta_143245	209	Tr500	13.98	5.30	7.10	6.82	7.11	0.001561	0.61	32.21	99.71	0.24
Asta_143245	196.3	Attrav_Ampurias										
Asta_143245	189	Tr50	8.50	5.20	6.12	6.12	6.22	0.030760	1.56	6.22	30.01	0.92
Asta_143245	189	Tr100	10.11	5.20	6.15	6.15	6.26	0.030083	1.57	7.10	33.18	0.92
Asta_143245	189	Tr200	11.74	5.20	6.19	6.19	6.29	0.026258	1.52	8.39	42.32	0.87
Asta_143245	189	Tr500	13.98	5.20	6.23	6.23	6.32	0.023779	1.48	10.50	57.38	0.84
Asta_143245	185	Tr50	8.50	5.07	5.94	5.94	6.01	0.031919	1.60	7.17	55.00	0.90
Asta_143245	185	Tr100	10.11	5.07	5.96	5.96	6.04	0.035511	1.70	8.15	59.17	0.95
Asta_143245	185	Tr200	11.74	5.07	5.98	5.98	6.06	0.034872	1.49	9.75	65.41	0.94
Asta_143245	185	Tr500	13.98	5.07	6.00	6.00	6.08	0.035915	1.42	11.07	70.80	0.96
Asta_143245	180	Tr50	8.50	4.80	5.52	5.52	5.62	0.037634	1.55	5.94	31.69	0.80
Asta_143245	180	Tr100	10.11	4.80	5.55	5.55	5.66	0.036655	1.51	6.90	33.22	0.81
Asta_143245	180	Tr200	11.74	4.80	5.57	5.57	5.69	0.036849	1.49	7.60	33.97	0.83
Asta_143245	180	Tr500	13.98	4.80	5.61	5.61	5.73	0.030654	1.32	9.12	41.09	0.78
Asta_143245	170.9	Tr50	8.50	4.50	5.13	5.10	5.22	0.024994	1.19	6.38	29.85	0.59
Asta_143245	170.9	Tr100	10.11	4.50	5.15	5.14	5.25	0.027179	1.26	7.18	33.85	0.61
Asta_143245	170.9	Tr200	11.74	4.50	5.17	5.17	5.29	0.028186	1.30	7.94	36.22	0.62
Asta_143245	170.9	Tr500	13.98	4.50	5.20	5.20	5.33	0.029621	1.36	8.87	37.67	0.64
Asta_143245	161	Tr50	8.50	4.26	4.82	4.82	4.91	0.038584	1.46	6.10	33.19	0.82
Asta_143245	161	Tr100	10.11	4.26	4.84	4.84	4.95	0.036591	1.44	6.95	33.99	0.81
Asta_143245	161	Tr200	11.74	4.26	4.87	4.87	4.98	0.034548	1.42	8.01	37.82	0.79
Asta_143245	161	Tr500	13.98	4.26	4.90	4.90	5.02	0.031417	1.39	9.28	40.30	0.77
Asta_143245	153	Tr50	8.50	3.56	4.12	4.12	4.20	0.027597	0.87	6.73	38.99	0.78
Asta_143245	153	Tr100	10.11	3.56	4.14	4.14	4.23	0.028474	0.92	7.79	47.49	0.80
Asta_143245	153	Tr200	11.74	3.56	4.17	4.17	4.25	0.033560	0.95	9.07	53.24	0.87
Asta_143245	153	Tr500	13.98	3.56	4.19	4.19	4.28	0.033216	0.96	10.53	56.49	0.87
Asta_143245	141.2	Tr50	8.50	2.81	3.43	3.14	3.44	0.000904	0.39	26.45	82.17	0.19
Asta_143245	141.2	Tr100	10.11	2.81	3.43	3.16	3.44	0.001286	0.46	26.41	82.17	0.22
Asta_143245	141.2	Tr200	11.74	2.81	3.43	3.18	3.44	0.001745	0.54	26.36	82.16	0.26
Asta_143245	141.2	Tr500	13.98	2.81	4.01	3.21	4.01	0.000079	0.20	78.83	92.91	0.06
Asta_143245	132.17	Tr50	8.50	2.60	3.43		3.43	0.000089	0.15	55.74	89.57	0.06
Asta_143245	132.17	Tr100	10.11	2.60	3.43		3.43	0.000126	0.18	55.74	89.57	0.07
Asta_143245	132.17	Tr200	11.74	2.60	3.43		3.43	0.000170	0.21	55.74	89.57	0.08
Asta_143245	132.17	Tr500	13.98	2.60	4.01		4.01	0.000028	0.13	108.01	91.17	0.04
Asta_143245	121.6	Tr50	8.50	2.40	3.43	3.43	3.43	0.000021	0.06	82.33	85.71	0.03
Asta_143245	121.6	Tr100	10.11	2.40	3.43	3.43	3.43	0.000030	0.07	82.33	85.71	0.03
Asta_143245	121.6	Tr200	11.74	2.40	3.43	3.43	3.43	0.000040	0.08	82.33	85.71	0.04
Asta_143245	121.6	Tr500	13.98	2.40	4.01	3.43	4.01	0.000013	0.08	133.56	90.96	0.02
Asta_143245	101.2	Tr50	8.50	2.25	3.09	3.09	3.09	0.000041	0.07	67.80	84.85	0.04
Asta_143245	101.2	Tr100	10.11	2.25	3.09	3.09	3.09	0.000058	0.08	67.80	84.85	0.04
Asta_143245	101.2	Tr200	11.74	2.25	3.38	3.09	3.38	0.000029	0.09	92.81	85.72	0.03
Asta_143245	101.2	Tr500	13.98	2.25	4.01	3.09	4.01	0.000009	0.08	147.46	87.55	0.02
Asta_143245	81.64	Tr50	8.50	2.04	2.87	2.87	2.87	0.000053	0.05	59.28	76.55	0.04
Asta_143245	81.64	Tr100	10.11	2.04	2.94	2.87	2.94	0.000058	0.07	64.49	76.88	0.04
Asta_143245	81.64	Tr200	11.74	2.04	3.38	2.87	3.38	0.000021	0.08	98.80	83.22	0.03
Asta_143245	81.64	Tr500	13.98	2.04	4.01	2.87	4.01	0.000008	0.07	156.71	94.78	0.02
Asta_143245	69.23	Tr50	8.50	1.90	2.61		2.61	0.000049	0.07	60.06	69.70	0.04
Asta_143245	69.23	Tr100	10.11	1.90	2.94		2.94	0.000024	0.08	83.27	72.03	0.03
Asta_143245	69.23	Tr200	11.74	1.90	3.38		3.38	0.000012	0.08	115.35	75.03	0.02

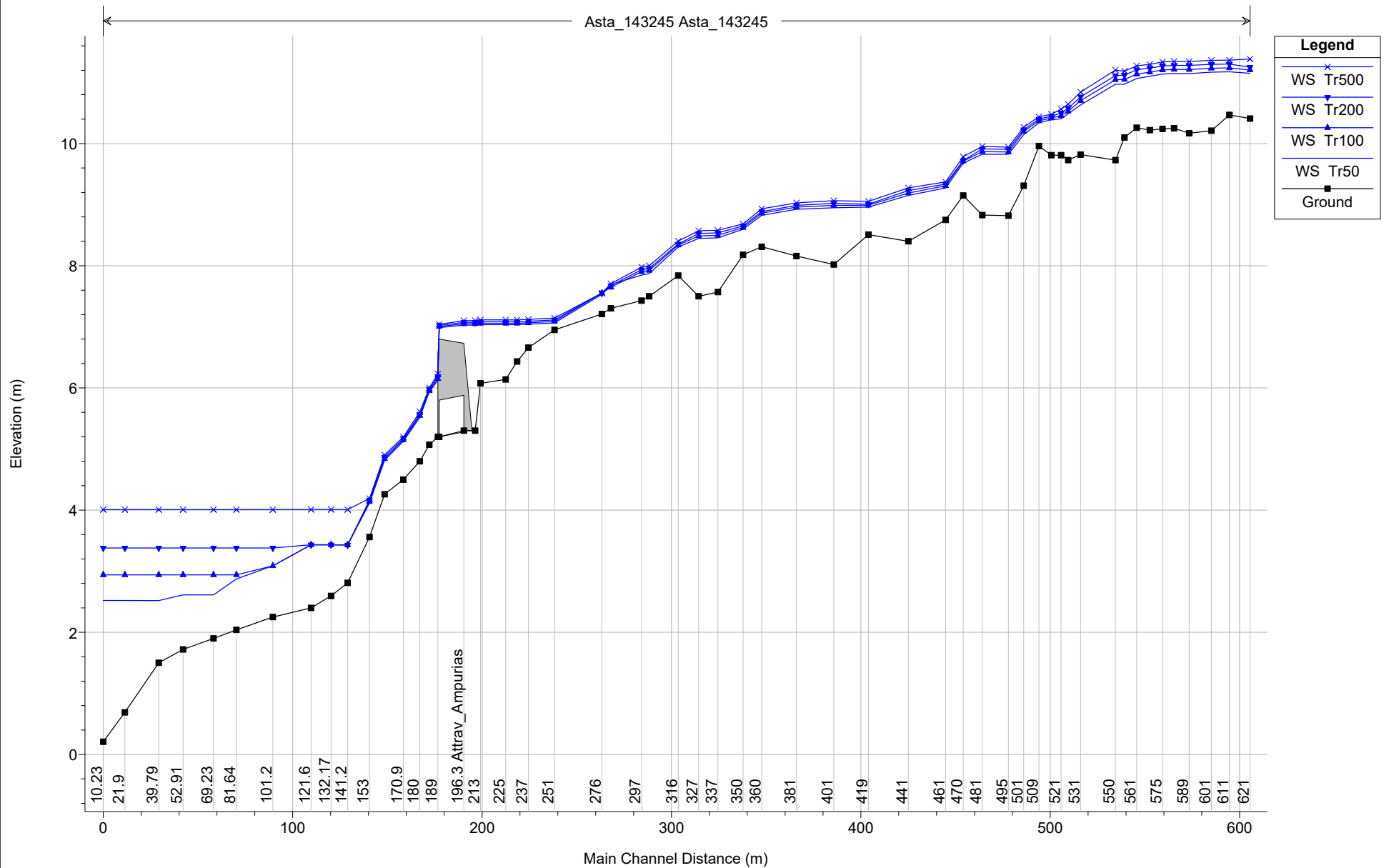
HEC-RAS Plan: Stato attuale River: Asta_143245 Reach: Asta_143245 (Continued)

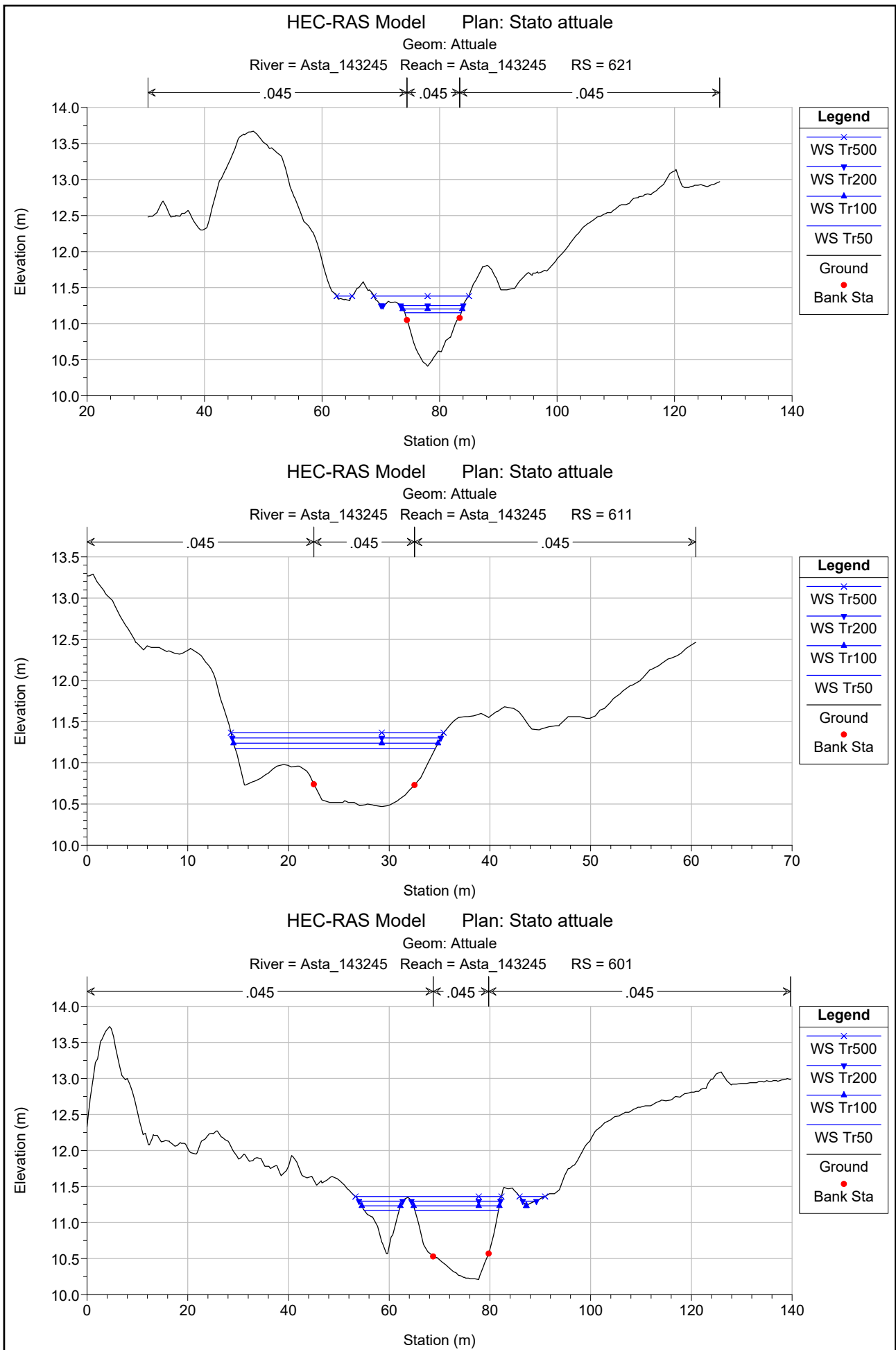
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta_143245	69.23	Tr500	13.98	1.90	4.01		4.01	0.000005	0.07	169.73	90.38	0.02
Asta_143245	52.91	Tr50	8.50	1.72	2.61	2.61	2.61	0.000031	0.06	74.49	83.18	0.03
Asta_143245	52.91	Tr100	10.11	1.72	2.94	2.61	2.94	0.000016	0.06	102.87	90.94	0.02
Asta_143245	52.91	Tr200	11.74	1.72	3.38	2.61	3.38	0.000007	0.06	143.87	95.37	0.02
Asta_143245	52.91	Tr500	13.98	1.72	4.01	2.61	4.01	0.000003	0.05	205.94	101.65	0.01
Asta_143245	39.79	Tr50	8.50	1.50	2.52		2.52	0.000031	0.09	79.20	99.13	0.04
Asta_143245	39.79	Tr100	10.11	1.50	2.94		2.94	0.000011	0.08	121.66	105.48	0.02
Asta_143245	39.79	Tr200	11.74	1.50	3.38		3.38	0.000005	0.07	169.04	109.53	0.02
Asta_143245	39.79	Tr500	13.98	1.50	4.01		4.01	0.000003	0.06	240.10	118.95	0.01
Asta_143245	21.9	Tr50	8.50	0.69	2.52		2.52	0.000005	0.07	164.61	164.45	0.02
Asta_143245	21.9	Tr100	10.11	0.69	2.94		2.94	0.000002	0.05	233.68	164.45	0.01
Asta_143245	21.9	Tr200	11.74	0.69	3.38		3.38	0.000001	0.05	306.01	164.45	0.01
Asta_143245	21.9	Tr500	13.98	0.69	4.01		4.01	0.000001	0.04	409.62	164.45	0.01
Asta_143245	10.23	Tr50	8.50	0.21	2.52	0.73	2.52	0.000001	0.04	237.68	161.85	0.01
Asta_143245	10.23	Tr100	10.11	0.21	2.94	0.74	2.94	0.000001	0.04	305.66	161.85	0.01
Asta_143245	10.23	Tr200	11.74	0.21	3.38	0.76	3.38	0.000001	0.04	376.85	161.85	0.01
Asta_143245	10.23	Tr500	13.98	0.21	4.01	0.80	4.01	0.000000	0.03	478.81	161.85	0.01

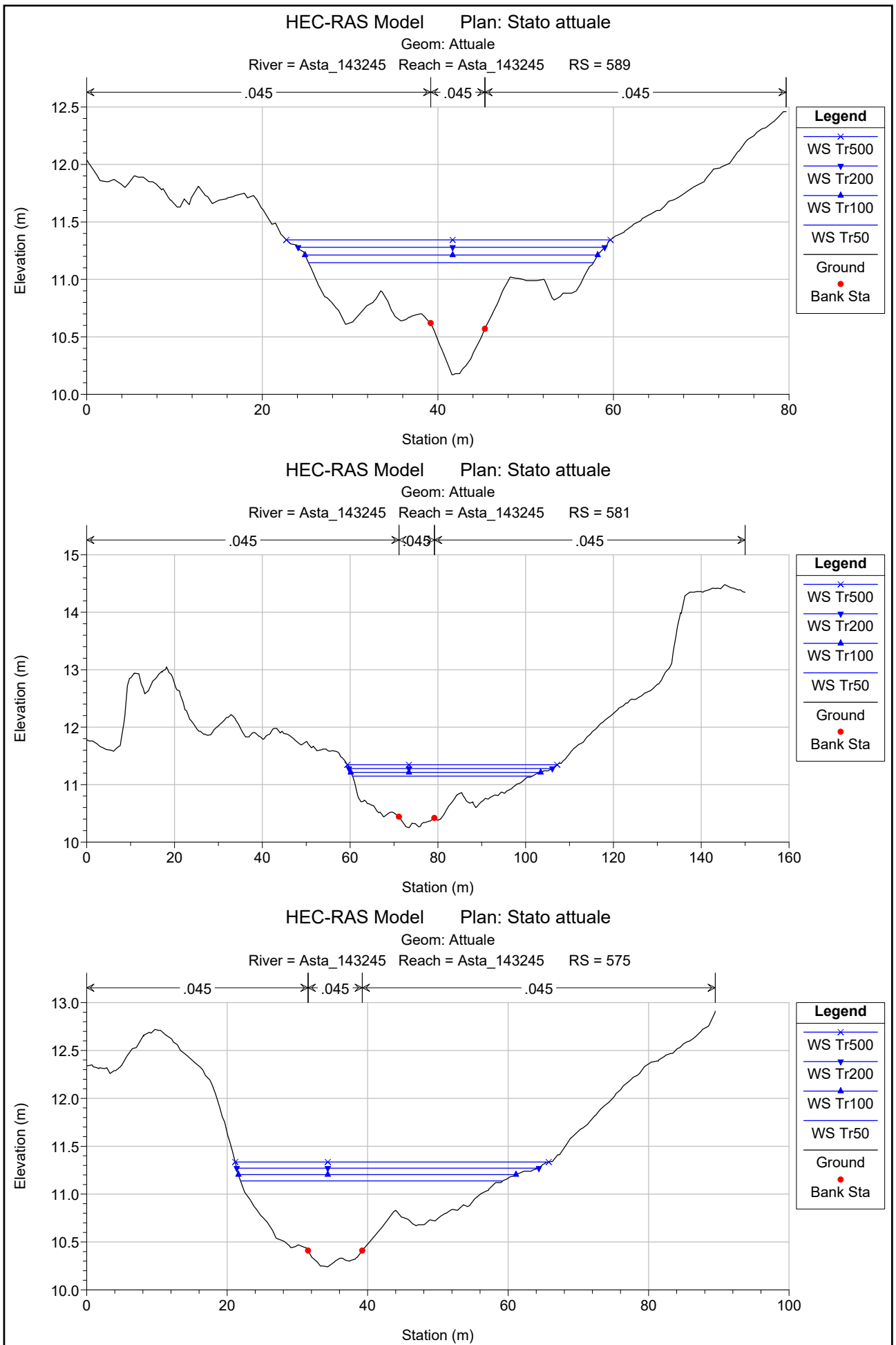
HEC-RAS Model Plan: Stato attuale

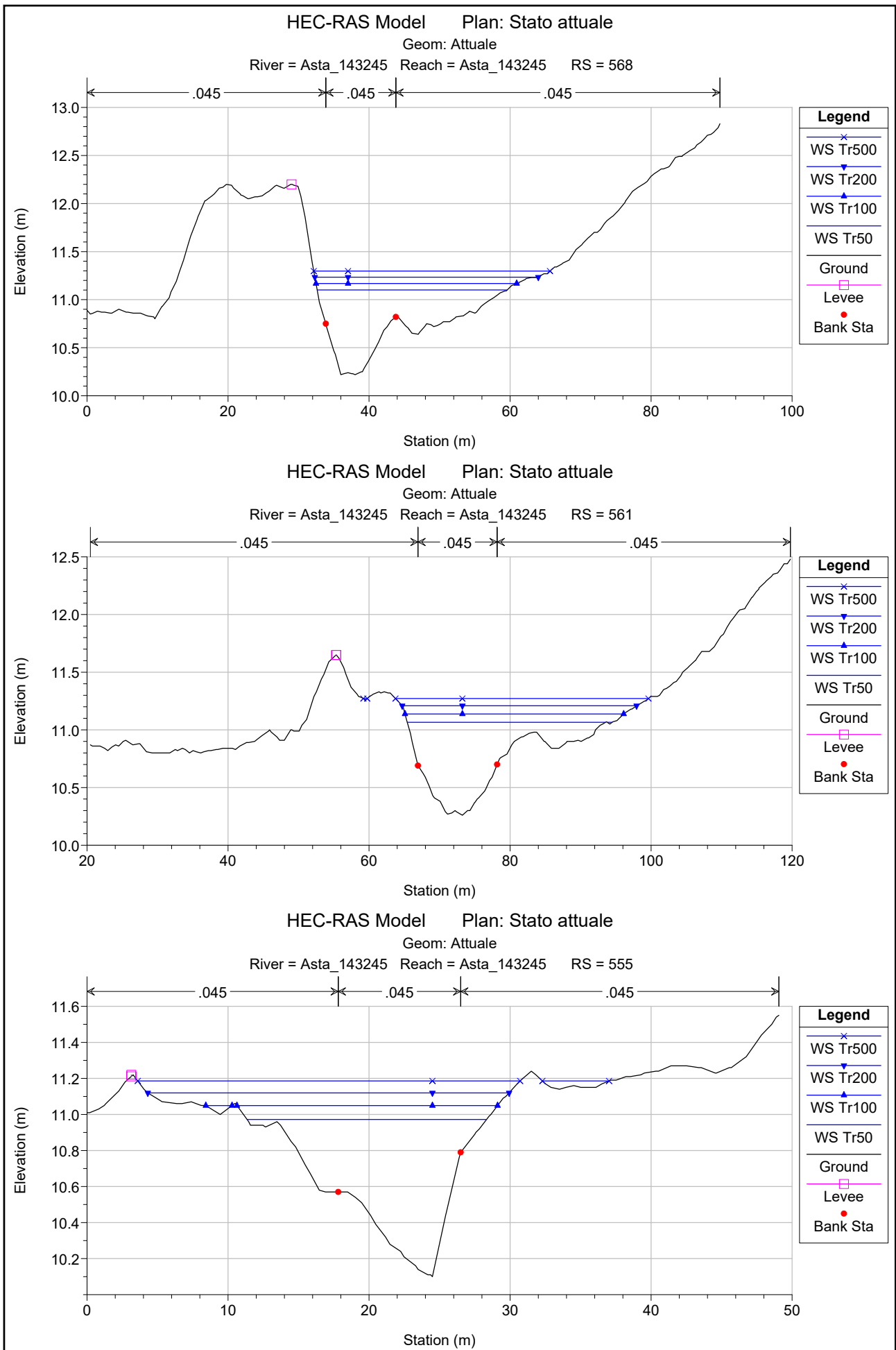
Geom: Attuale

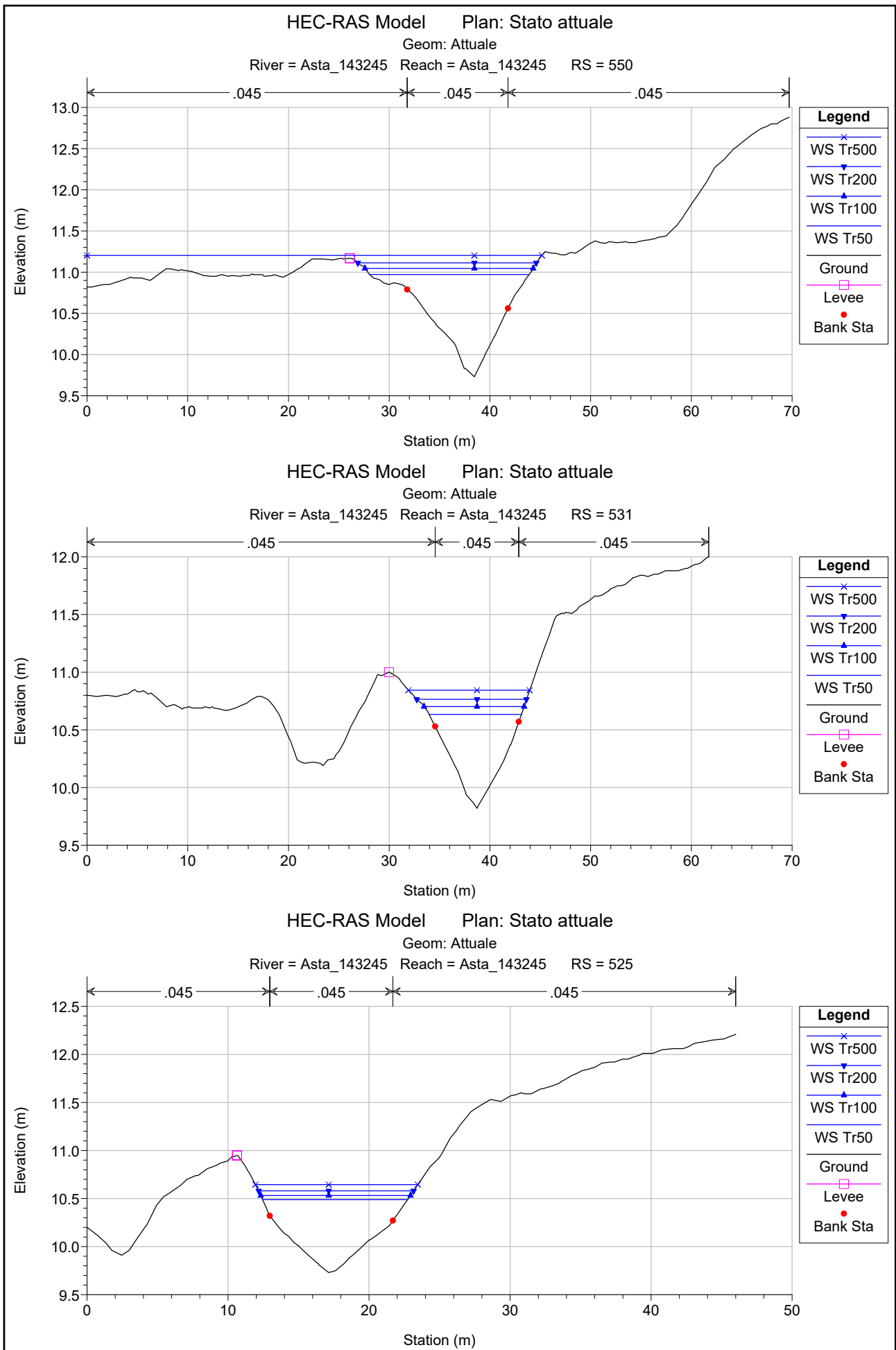
Asta_143245 Asta_143245

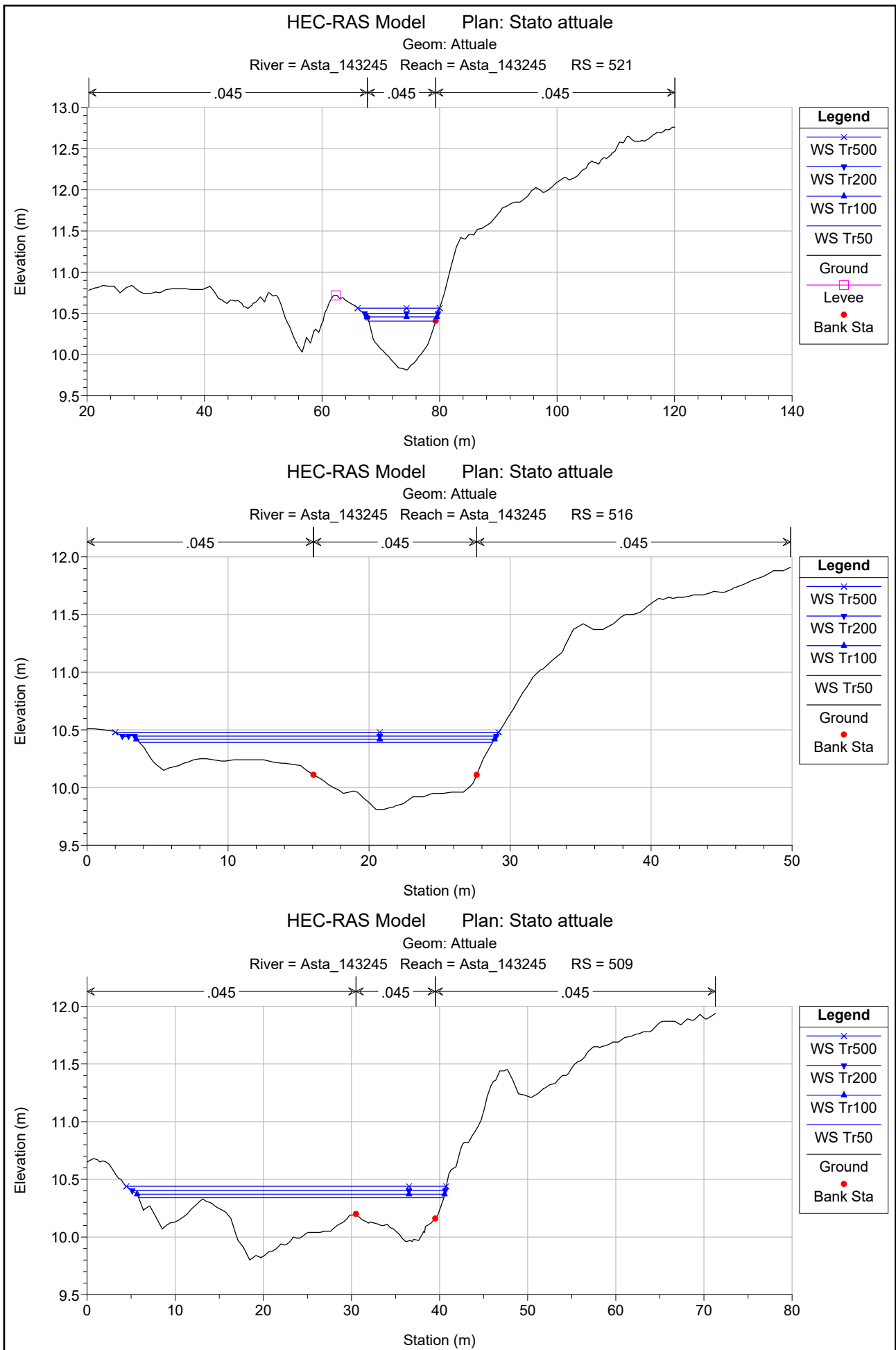


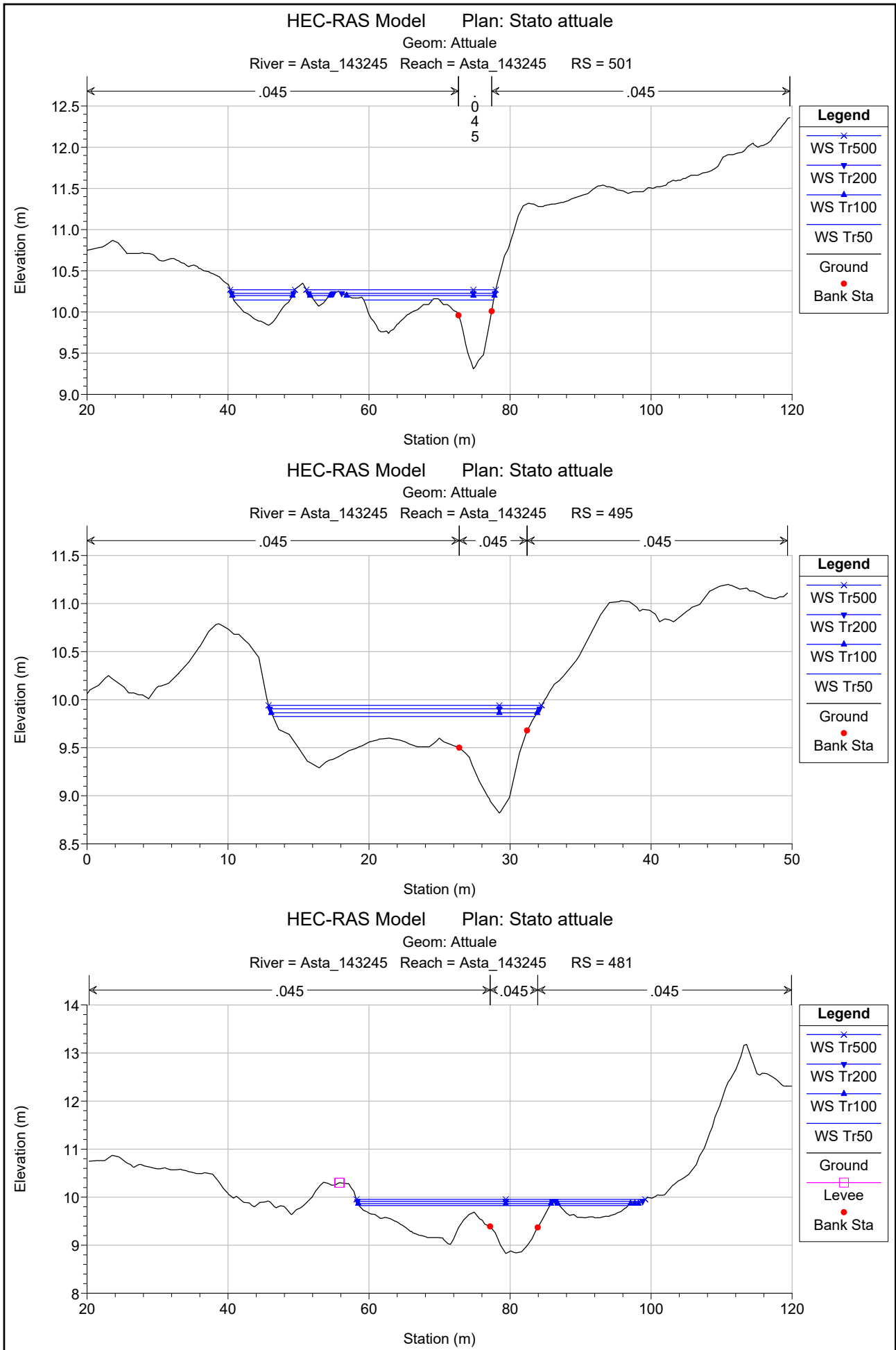


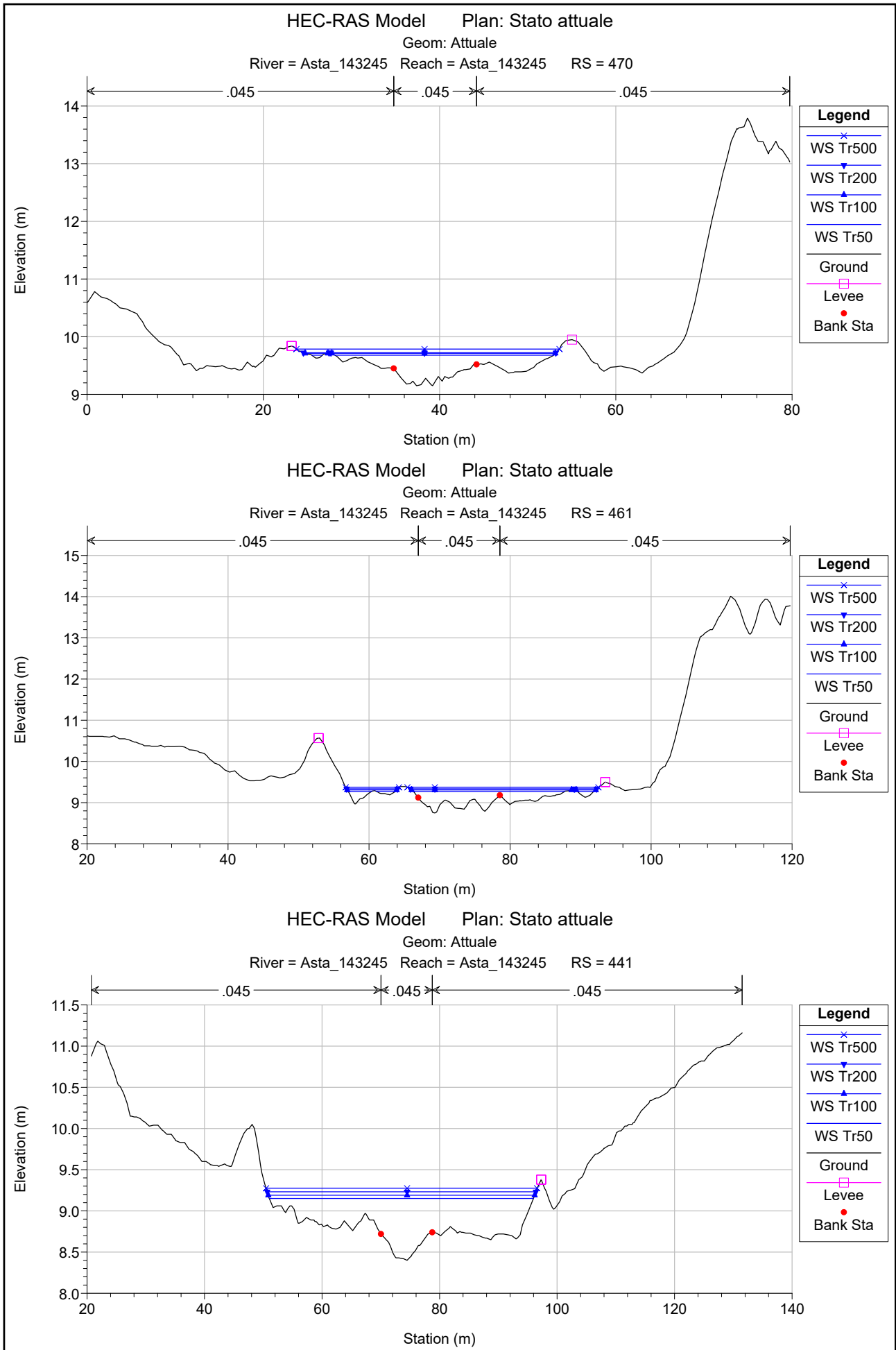


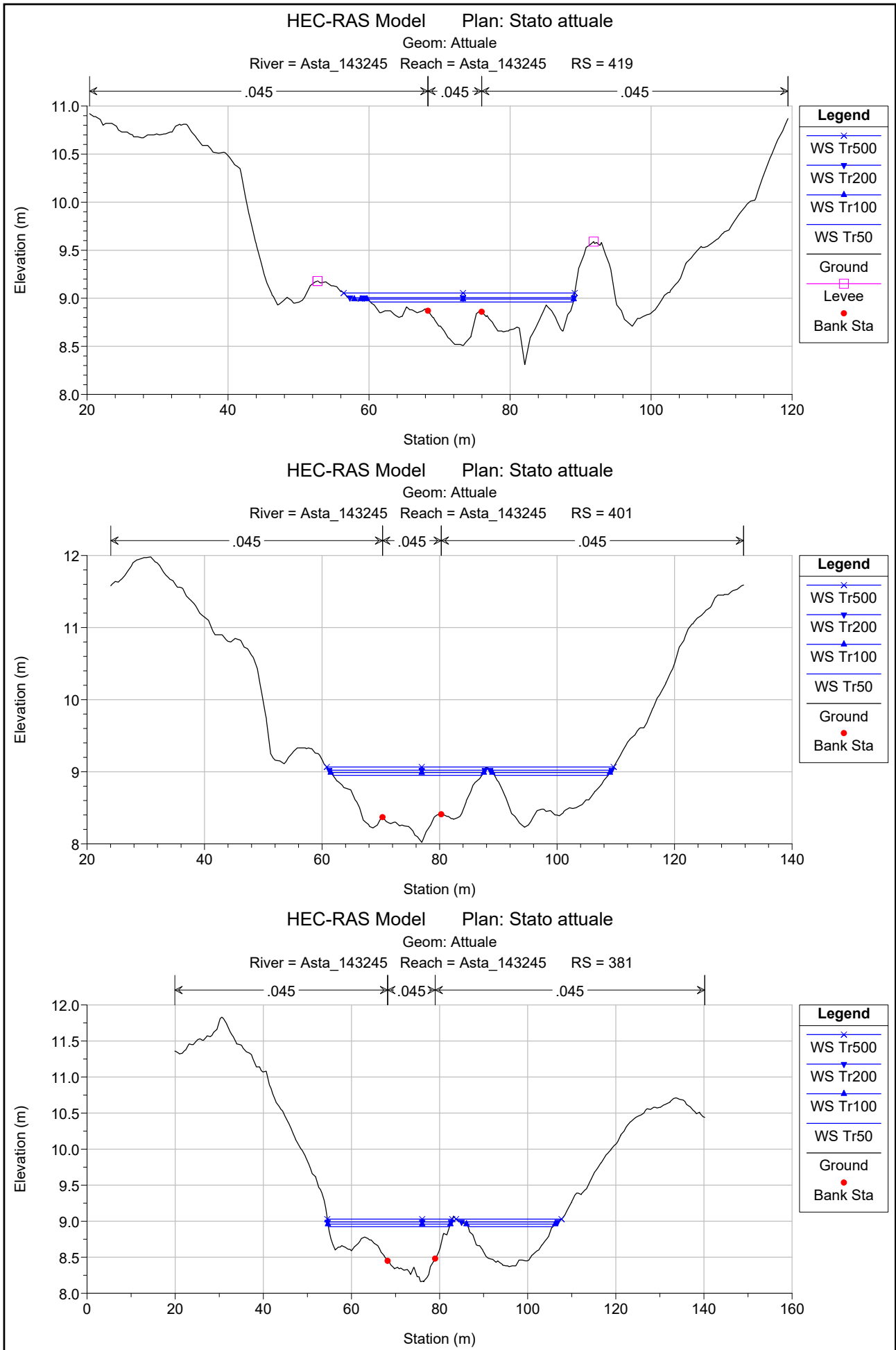


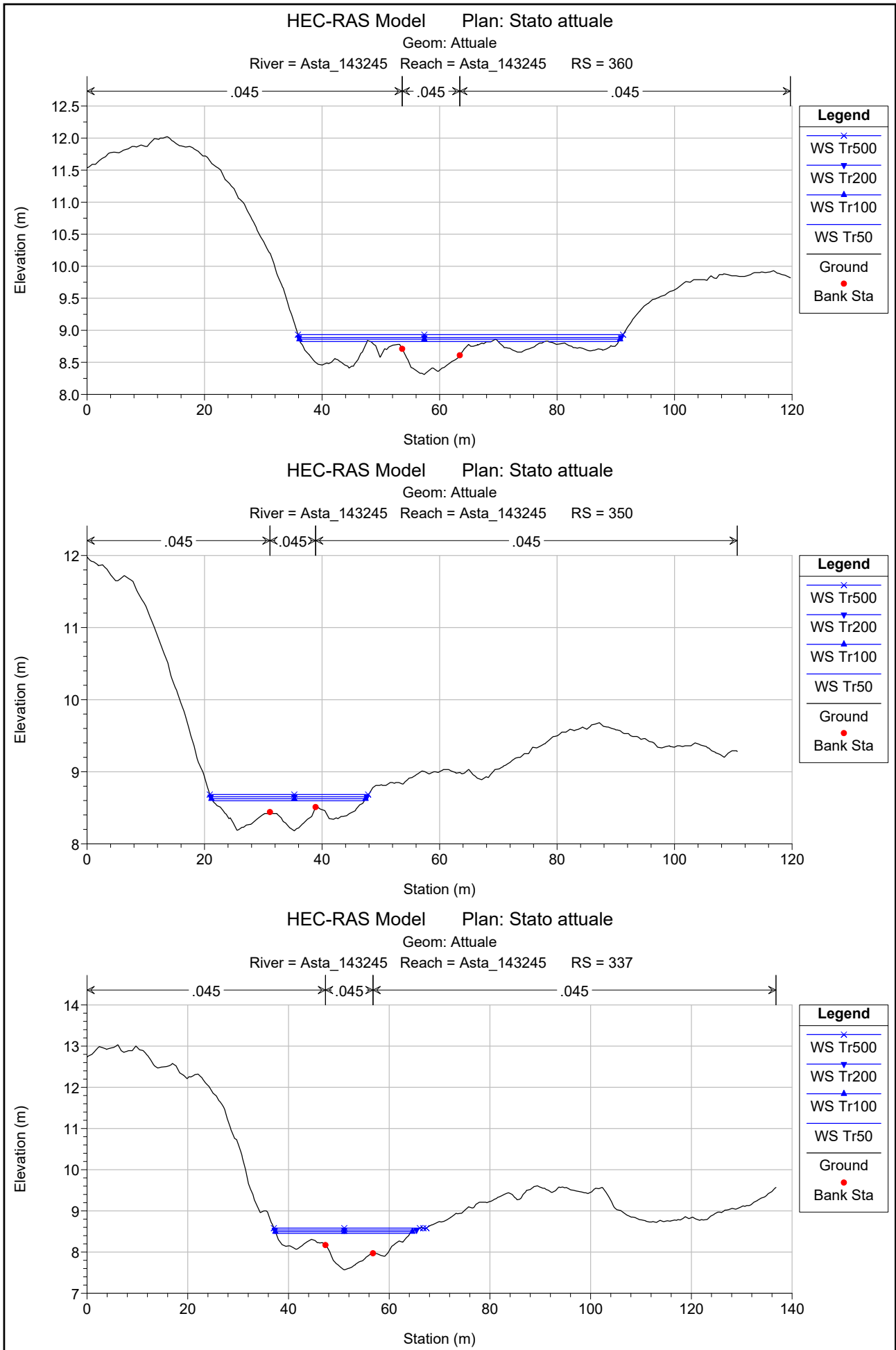








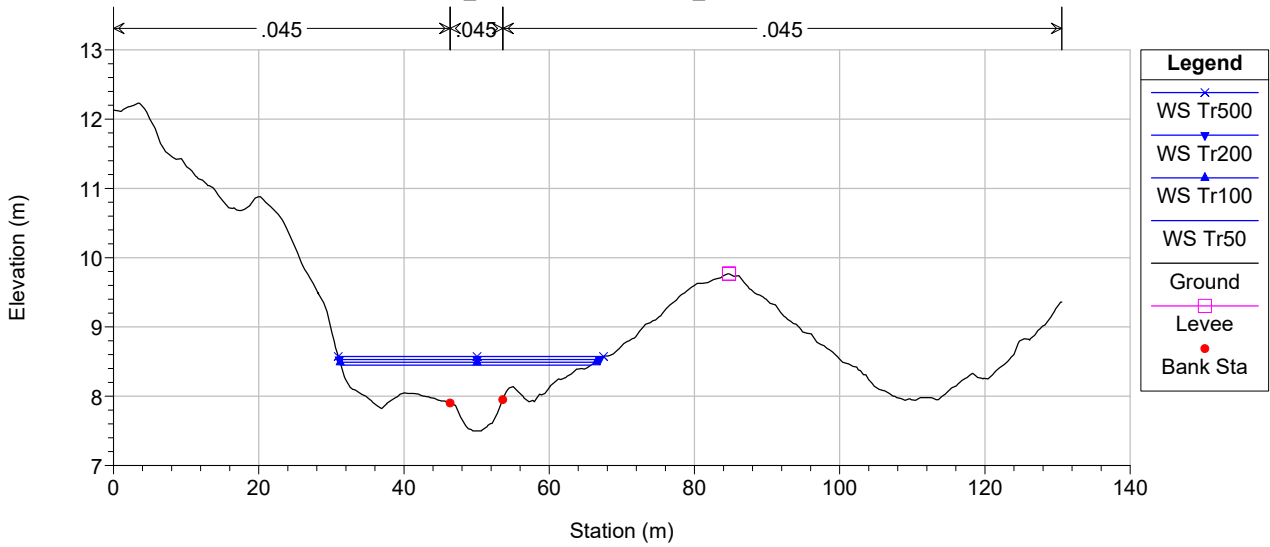




HEC-RAS Model Plan: Stato attuale

Geom: Attuale

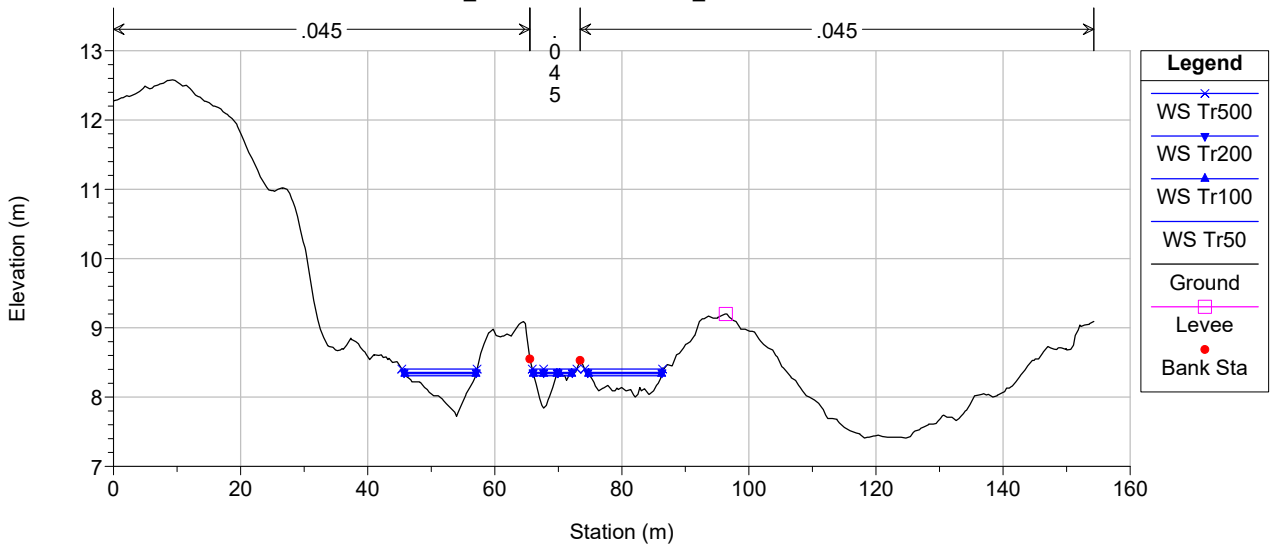
River = Asta_143245 Reach = Asta_143245 RS = 327



HEC-RAS Model Plan: Stato attuale

Geom: Attuale

River = Asta_143245 Reach = Asta_143245 RS = 316



HEC-RAS Model Plan: Stato attuale

Geom: Attuale

River = Asta_143245 Reach = Asta_143245 RS = 301

