

COMUNE DI VALLEDORIA

Provincia di Sassari



PIANO URBANISTICO COMUNALE



GRUPPO DI LAVORO

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IL SINDACO

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TAVOLA

RI_04.1

Assetto idraulico

Tabelle e sezioni di calcolo: Riu Cuggiani

Data
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Scala
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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
Cuggiani_monte	9413.08	Tr 50	71.21	94.20	95.63	95.63	96.09	0.008812	3.38	27.65	32.34	0.97
Cuggiani_monte	9413.08	Tr 100	86.56	94.20	95.78	95.78	96.28	0.008235	3.53	32.78	34.41	0.95
Cuggiani_monte	9413.08	Tr 200	102.24	94.20	95.91	95.91	96.45	0.008116	3.72	37.25	35.85	0.96
Cuggiani_monte	9413.08	Tr 500	123.33	94.20	96.06	96.06	96.66	0.008130	3.96	42.76	37.62	0.98
Cuggiani_monte	9387.97	Tr 50	71.21	93.60	95.21	95.21	95.68	0.010355	3.03	23.75	28.58	1.00
Cuggiani_monte	9387.97	Tr 100	86.56	93.60	95.36	95.36	95.87	0.009315	3.17	28.20	31.90	0.97
Cuggiani_monte	9387.97	Tr 200	102.24	93.60	95.49	95.49	96.04	0.008716	3.31	32.64	35.24	0.96
Cuggiani_monte	9387.97	Tr 500	123.33	93.60	95.68	95.68	96.25	0.007703	3.41	39.52	40.03	0.92
Cuggiani_monte	9362.86	Tr 50	71.21	93.00	94.28	94.28	94.72	0.008509	3.11	27.26	32.64	0.93
Cuggiani_monte	9362.86	Tr 100	86.56	93.00	94.41	94.41	94.89	0.008304	3.30	31.59	33.76	0.94
Cuggiani_monte	9362.86	Tr 200	102.24	93.00	94.52	94.52	95.06	0.008328	3.51	35.52	34.77	0.96
Cuggiani_monte	9362.86	Tr 500	123.33	93.00	94.68	94.68	95.27	0.008094	3.71	41.02	36.29	0.96
Cuggiani_monte	9337.75	Tr 50	71.21	93.00	94.03	94.03	94.44	0.010927	2.85	25.01	31.40	1.00
Cuggiani_monte	9337.75	Tr 100	86.56	93.00	94.15	94.15	94.61	0.010223	3.01	28.95	32.74	0.99
Cuggiani_monte	9337.75	Tr 200	102.24	93.00	94.26	94.26	94.77	0.009858	3.18	32.63	34.27	0.99
Cuggiani_monte	9337.75	Tr 500	123.33	93.00	94.41	94.41	94.97	0.009165	3.35	37.86	36.69	0.98
Cuggiani_monte	9312.64	Tr 50	71.21	92.10	93.29	93.29	93.68	0.009384	3.16	29.58	37.66	0.98
Cuggiani_monte	9312.64	Tr 100	86.56	92.10	93.40	93.40	93.84	0.009356	3.37	33.89	38.62	0.99
Cuggiani_monte	9312.64	Tr 200	102.24	92.10	93.51	93.51	94.00	0.009169	3.54	38.26	39.52	1.00
Cuggiani_monte	9312.64	Tr 500	123.33	92.10	93.64	93.64	94.19	0.009408	3.81	43.17	40.62	1.02
Cuggiani_monte	9287.53	Tr 50	71.21	90.60	92.52	92.52	92.96	0.006641	3.17	29.91	39.33	0.85
Cuggiani_monte	9287.53	Tr 100	86.56	90.60	92.68	92.68	93.13	0.006318	3.30	36.12	42.37	0.84
Cuggiani_monte	9287.53	Tr 200	102.24	90.60	92.75	92.75	93.29	0.007173	3.63	39.35	43.73	0.90
Cuggiani_monte	9287.53	Tr 500	123.33	90.60	92.84	92.84	93.49	0.008335	4.05	43.16	45.24	0.98
Cuggiani_monte	9262.42	Tr 50	71.21	91.35	92.60	92.60	92.68	0.002280	1.65	64.84	78.71	0.49
Cuggiani_monte	9262.42	Tr 100	86.56	91.35	92.71	92.71	92.81	0.002223	1.74	74.30	79.72	0.49
Cuggiani_monte	9262.42	Tr 200	102.24	91.35	92.84	92.84	92.94	0.002117	1.81	84.13	80.60	0.49
Cuggiani_monte	9262.42	Tr 500	123.33	91.35	92.98	92.98	93.09	0.002066	1.90	95.76	81.58	0.49
Cuggiani_monte	9237.31	Tr 50	71.21	91.20	92.23	92.23	92.55	0.010592	3.10	33.87	53.50	1.02
Cuggiani_monte	9237.31	Tr 100	86.56	91.20	92.34	92.34	92.68	0.009960	3.23	39.95	56.78	1.00
Cuggiani_monte	9237.31	Tr 200	102.24	91.20	92.39	92.39	92.80	0.011182	3.55	43.25	58.49	1.07
Cuggiani_monte	9237.31	Tr 500	123.33	91.20	92.58	92.58	92.97	0.008960	3.53	55.47	69.53	0.99
Cuggiani_monte	9187.14	Tr 50	71.21	89.40	90.74	90.74	90.99	0.011322	2.76	38.23	73.20	1.01
Cuggiani_monte	9187.14	Tr 100	86.56	89.40	90.83	90.83	91.08	0.010497	2.78	45.34	76.39	0.98
Cuggiani_monte	9187.14	Tr 200	102.24	89.40	90.88	90.88	91.17	0.011673	3.00	49.04	77.31	1.04
Cuggiani_monte	9187.14	Tr 500	123.33	89.40	90.98	90.98	91.28	0.011155	3.07	56.56	78.71	1.03
Cuggiani_monte	9137.02	Tr 50	71.21	89.10	90.00	90.00	90.27	0.013593	3.02	37.02	74.07	1.11
Cuggiani_monte	9137.02	Tr 100	86.56	89.10	90.09	90.09	90.38	0.012901	3.17	43.82	80.71	1.10
Cuggiani_monte	9137.02	Tr 200	102.24	89.10	90.17	90.17	90.48	0.012626	3.32	50.20	86.45	1.10
Cuggiani_monte	9137.02	Tr 500	123.33	89.10	90.28	90.28	90.59	0.011669	3.43	59.83	94.36	1.08
Cuggiani_monte	9111.96	Tr 50	71.21	89.01	89.34	89.34	89.54	0.025280	1.96	36.09	92.10	1.26
Cuggiani_monte	9111.96	Tr 100	86.56	89.01	89.40	89.40	89.62	0.024001	2.22	41.93	95.77	1.27
Cuggiani_monte	9111.96	Tr 200	102.24	89.01	89.45	89.45	89.70	0.023575	2.44	47.03	97.96	1.29
Cuggiani_monte	9111.96	Tr 500	123.33	89.01	89.52	89.52	89.79	0.022835	2.69	53.75	100.76	1.31
Cuggiani_monte	9086.95	Tr 50	71.21	88.04	88.62	88.62	88.74	0.010683	1.16	45.78	87.03	0.80
Cuggiani_monte	9086.95	Tr 100	86.56	88.04	88.67	88.54	88.82	0.011696	1.41	50.71	95.23	0.87
Cuggiani_monte	9086.95	Tr 200	102.24	88.04	88.73	88.61	88.90	0.012327	1.64	56.08	99.38	0.92
Cuggiani_monte	9086.95	Tr 500	123.33	88.04	88.79	88.69	89.00	0.013197	1.91	62.64	104.22	0.98
Cuggiani_monte	9061.94	Tr 50	71.21	87.94	88.16	88.16	88.35	0.025043	1.13	37.29	100.14	1.09
Cuggiani_monte	9061.94	Tr 100	86.56	87.94	88.22	88.22	88.42	0.022730	1.25	44.32	117.79	1.08
Cuggiani_monte	9061.94	Tr 200	102.24	87.94	88.27	88.27	88.49	0.022491	1.54	50.43	123.06	1.13
Cuggiani_monte	9061.94	Tr 500	123.33	87.94	88.34	88.34	88.57	0.021871	1.84	58.54	129.72	1.17
Cuggiani_monte	9034.81	Tr 50	71.21	86.85	87.95	87.95	88.07	0.005403	2.05	59.74	134.00	0.71
Cuggiani_monte	9034.81	Tr 100	86.56	86.85	88.02	88.02	88.15	0.005253	2.13	69.32	137.10	0.71
Cuggiani_monte	9034.81	Tr 200	102.24	86.85	88.08	88.08	88.22	0.005153	2.21	78.40	139.73	0.71
Cuggiani_monte	9034.81	Tr 500	123.33	86.85	88.17	88.17	88.31	0.005017	2.30	90.05	142.76	0.71
Cuggiani_monte	9007.68	Tr 50	71.21	86.90	87.83	87.83	87.91	0.005770	1.89	65.96	155.43	0.70
Cuggiani_monte	9007.68	Tr 100	86.56	86.90	87.91	87.91	87.99	0.005402	1.95	78.67	166.53	0.69
Cuggiani_monte	9007.68	Tr 200	102.24	86.90	87.99	87.99	88.07	0.004599	1.91	93.01	170.44	0.64
Cuggiani_monte	9007.68	Tr 500	123.33	86.90	88.09	88.09	88.17	0.004209	1.95	109.23	178.35	0.63
Cuggiani_monte	8980.45	Tr 50	71.21	85.80	87.75	87.75	87.82	0.001954	1.49	79.89	130.56	0.44
Cuggiani_monte	8980.45	Tr 100	86.56	85.80	87.82	87.82	87.90	0.002201	1.65	89.05	136.56	0.48
Cuggiani_monte	8980.45	Tr 200	102.24	85.80	87.90	87.90	87.98	0.002310	1.76	99.69	143.22	0.49
Cuggiani_monte	8980.45	Tr 500	123.33	85.80	87.98	87.98	88.08	0.002402	1.87	112.34	145.88	0.51
Cuggiani_monte	8954.86	Tr 50	71.21	87.15	87.47	87.47	87.67	0.025310	1.65	35.82	93.06	1.20
Cuggiani_monte	8954.86	Tr 100	86.56	87.15	87.58	87.53	87.76	0.016515	1.79	46.19	94.63	1.05
Cuggiani_monte	8954.86	Tr 200	102.24	87.15	87.64	87.59	87.84	0.018342	2.11	52.06	106.79	1.13
Cuggiani_monte	8954.86	Tr 500	123.33	87.15	87.75	87.66	87.94	0.013419	2.18	64.55	109.66	1.02
Cuggiani_monte	8927.63	Tr 50	71.21	85.80	86.91	86.91	87.22	0.008990	3.05	35.43	53.34	0.95
Cuggiani_monte	8927.63	Tr 100	86.56	85.80	86.94	86.94	87.36	0.011925	3.57	36.83	53.87	1.10
Cuggiani_monte	8927.63	Tr 200	102.24	85.80	87.19	87.19	87.51	0.007736	3.30	54.17	82.96	0.92
Cuggiani_monte	8927.63	Tr 500	123.33	85.80	87.27	87.27	87.64	0.008248	3.56	61.82	89.90	0.96
Cuggiani_monte	8893.39	Tr 50	71.21	84.30	86.04	86.04	86.38	0.007740	2.88	30.55	52.30	0.87
Cuggiani_monte	8893.39	Tr 100	86.56	84.30	86.15	86.15	86.53	0.007478	2.83	36.69	58.10	0.87
Cuggiani_monte	8893.39	Tr 200	102.24	84.30	86.26	86.26	86.66	0.007075	2.94	43.56	65.49	0.86
Cuggiani_monte	8893.39	Tr 500	123.33	84.30	86.39	86.39	86.81	0.006629	3.06	53.03	74.50	0.85

HEC-RAS Plan: Art_8_comma 2 (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
Cuggiani_monte	8867.8 SC_0023 Cugg.1											
Cuggiani_monte	8842.79	Tr 50	71.21	83.70	85.89	85.73	86.09	0.003139	2.32	50.14	75.13	0.59
Cuggiani_monte	8842.79	Tr 100	86.56	83.70	85.97	85.79	86.20	0.003568	2.56	56.49	79.42	0.64
Cuggiani_monte	8842.79	Tr 200	102.24	83.70	86.05	85.93	86.31	0.003934	2.78	62.74	83.42	0.67
Cuggiani_monte	8842.79	Tr 500	123.33	83.70	86.14	86.05	86.44	0.004359	3.03	70.91	89.48	0.72
Cuggiani_monte	8817.78	Tr 50	71.21	84.60	85.81		85.97	0.006216	2.39	50.25	92.38	0.78
Cuggiani_monte	8817.78	Tr 100	86.56	84.60	85.91		86.07	0.005829	2.46	59.49	97.10	0.77
Cuggiani_monte	8817.78	Tr 200	102.24	84.60	86.00		86.17	0.005554	2.54	68.48	101.48	0.76
Cuggiani_monte	8817.78	Tr 500	123.33	84.60	86.11		86.29	0.005229	2.63	80.34	106.90	0.75
Cuggiani_monte	8792.77	Tr 50	71.21	84.60	85.70		85.82	0.004670	1.90	52.81	88.14	0.66
Cuggiani_monte	8792.77	Tr 100	86.56	84.60	85.80		85.93	0.004524	2.01	61.83	93.96	0.66
Cuggiani_monte	8792.77	Tr 200	102.24	84.60	85.89		86.04	0.004307	2.09	70.91	97.76	0.66
Cuggiani_monte	8792.77	Tr 500	123.33	84.60	86.01		86.16	0.004079	2.19	82.70	102.44	0.65
Cuggiani_monte	8767.76	Tr 50	71.21	84.60	85.60		85.70	0.004419	1.86	54.51	82.85	0.64
Cuggiani_monte	8767.76	Tr 100	86.56	84.60	85.70		85.82	0.004318	1.98	63.26	87.83	0.65
Cuggiani_monte	8767.76	Tr 200	102.24	84.60	85.80		85.93	0.004209	2.09	72.03	92.56	0.65
Cuggiani_monte	8767.76	Tr 500	123.33	84.60	85.91		86.06	0.004196	2.24	83.33	99.21	0.66
Cuggiani_monte	8741.04	Tr 50	71.21	84.30	85.52		85.61	0.002980	1.87	62.41	80.90	0.56
Cuggiani_monte	8741.04	Tr 100	86.56	84.30	85.62		85.72	0.003124	2.02	70.74	84.86	0.58
Cuggiani_monte	8741.04	Tr 200	102.24	84.30	85.72		85.83	0.003209	2.15	79.10	88.65	0.59
Cuggiani_monte	8741.04	Tr 500	123.33	84.30	85.83		85.96	0.003294	2.31	89.72	92.91	0.61
Cuggiani_monte	8716.02	Tr 50	71.21	84.00	85.19	85.19	85.46	0.009862	2.71	36.89	69.23	0.95
Cuggiani_monte	8716.02	Tr 100	86.56	84.00	85.28	85.28	85.57	0.009720	2.87	42.79	72.00	0.96
Cuggiani_monte	8716.02	Tr 200	102.24	84.00	85.35	85.35	85.68	0.009926	3.05	47.92	74.15	0.99
Cuggiani_monte	8716.02	Tr 500	123.33	84.00	85.44	85.44	85.80	0.009913	3.23	54.91	77.00	1.00
Cuggiani_monte	8691.01	Tr 50	71.21	82.80	84.71	84.71	85.01	0.007697	3.08	37.96	61.23	0.88
Cuggiani_monte	8691.01	Tr 100	86.56	82.80	84.79	84.79	85.13	0.008194	3.32	43.29	65.03	0.92
Cuggiani_monte	8691.01	Tr 200	102.24	82.80	84.90	84.89	85.25	0.007828	3.41	50.34	69.76	0.91
Cuggiani_monte	8691.01	Tr 500	123.33	82.80	85.02	85.00	85.38	0.007493	3.53	59.25	74.06	0.90
Cuggiani_monte	8664.28	Tr 50	71.21	83.47	84.62		84.77	0.005217	2.34	46.23	60.21	0.73
Cuggiani_monte	8664.28	Tr 100	86.56	83.47	84.73		84.90	0.005109	2.48	53.13	61.97	0.73
Cuggiani_monte	8664.28	Tr 200	102.24	83.47	84.83		85.02	0.005065	2.61	59.66	63.58	0.74
Cuggiani_monte	8664.28	Tr 500	123.33	83.47	84.96		85.17	0.005095	2.79	67.65	65.57	0.75
Cuggiani_monte	8637.68	Tr 50	71.21	82.80	84.27	84.27	84.59	0.007383	3.18	37.43	55.90	0.89
Cuggiani_monte	8637.68	Tr 100	86.56	82.80	84.37	84.37	84.72	0.007655	3.39	42.87	58.14	0.92
Cuggiani_monte	8637.68	Tr 200	102.24	82.80	84.45	84.45	84.84	0.007886	3.58	48.04	59.92	0.94
Cuggiani_monte	8637.68	Tr 500	123.33	82.80	84.57	84.57	84.98	0.007900	3.78	55.24	62.43	0.95
Cuggiani_monte	8586.11	Tr 50	71.21	81.90	84.19		84.26	0.001062	1.54	74.22	63.43	0.35
Cuggiani_monte	8586.11	Tr 100	86.56	81.90	83.83		84.03	0.004062	2.62	52.59	55.57	0.67
Cuggiani_monte	8586.11	Tr 200	102.24	81.90	83.99		84.19	0.003725	2.67	61.36	59.54	0.65
Cuggiani_monte	8586.11	Tr 500	123.33	81.90	84.16		84.37	0.003442	2.74	72.19	62.85	0.64
Cuggiani_monte	8561.14	Tr 50	71.21	81.60	84.16		84.24	0.000759	1.51	76.94	63.04	0.31
Cuggiani_monte	8561.14	Tr 100	86.56	81.60	83.53	83.47	83.90	0.004981	3.14	41.61	48.20	0.77
Cuggiani_monte	8561.14	Tr 200	102.24	81.60	83.59	83.59	84.05	0.005944	3.51	44.40	49.27	0.84
Cuggiani_monte	8561.14	Tr 500	123.33	81.60	83.71	83.71	84.23	0.006364	3.79	50.37	51.57	0.88
Cuggiani_monte	8541.16	Tr 50	71.21	81.60	84.18	83.05	84.21	0.000326	0.98	111.14	84.91	0.21
Cuggiani_monte	8541.16	Tr 100	86.56	81.60	83.63	83.20	83.77	0.001684	1.85	67.77	72.87	0.45
Cuggiani_monte	8541.16	Tr 200	102.24	81.60	83.71	83.31	83.87	0.001900	2.03	73.77	74.30	0.48
Cuggiani_monte	8541.16	Tr 500	123.33	81.60	83.81	83.40	84.00	0.002166	2.24	81.37	76.72	0.52
Cuggiani_monte	8521.18 SC_0027 Cugg.2											
Cuggiani_monte	8493.17	Tr 50	71.21	80.40	84.17	82.70	84.20	0.000238	0.98	108.96	58.45	0.18
Cuggiani_monte	8493.17	Tr 100	86.56	80.40	82.70	82.70	83.14	0.006283	3.26	34.63	33.24	0.82
Cuggiani_monte	8493.17	Tr 200	102.24	80.40	82.77	82.77	83.30	0.007424	3.64	36.81	33.97	0.90
Cuggiani_monte	8493.17	Tr 500	123.33	80.40	82.96	82.96	83.51	0.006818	3.75	44.81	45.60	0.88
Cuggiani_monte	8470.6	Tr 50	71.21	80.40	84.18		84.19	0.000082	0.65	172.19	71.03	0.11
Cuggiani_monte	8470.6	Tr 100	86.56	80.40	82.33		82.50	0.002791	2.33	56.96	53.21	0.57
Cuggiani_monte	8470.6	Tr 200	102.24	80.40	82.43		82.63	0.003016	2.52	62.36	54.27	0.60
Cuggiani_monte	8470.6	Tr 500	123.33	80.40	82.56		82.79	0.003248	2.73	69.33	55.47	0.63
Cuggiani_monte	8442.59	Tr 50	71.21	80.10	84.18	81.85	84.18	0.000074	0.59	183.66	76.34	0.10
Cuggiani_monte	8442.59	Tr 100	86.56	80.10	82.01	82.01	82.36	0.009253	3.27	39.15	54.93	0.96
Cuggiani_monte	8442.59	Tr 200	102.24	80.10	82.09	82.09	82.48	0.009300	3.44	44.12	56.40	0.98
Cuggiani_monte	8442.59	Tr 500	123.33	80.10	82.21	82.21	82.63	0.009300	3.64	50.50	58.20	0.99
Cuggiani_monte	8420.02	Tr 50	71.21	80.10	80.69	80.69	83.86	0.338995	9.42	9.45	25.48	4.88
Cuggiani_monte	8420.02	Tr 100	86.56	80.10	81.28	81.28	81.66	0.015506	3.42	33.34	42.36	1.19
Cuggiani_monte	8420.02	Tr 200	102.24	80.10	81.37	81.37	81.79	0.015296	3.57	37.23	42.85	1.19
Cuggiani_monte	8420.02	Tr 500	123.33	80.10	81.49	81.49	81.96	0.014838	3.72	42.38	43.51	1.19
Cuggiani_monte	8395.64	Tr 50	71.21	78.30	80.73	80.40	80.95	0.003021	2.38	42.19	41.35	0.58
Cuggiani_monte	8395.64	Tr 100	86.56	78.30	80.85	80.54	81.11	0.003342	2.62	47.17	42.84	0.62
Cuggiani_monte	8395.64	Tr 200	102.24	78.30	80.99	80.67	81.27	0.003433	2.79	53.03	44.53	0.64
Cuggiani_monte	8395.64	Tr 500	123.33	78.30	81.09	80.83	81.44	0.004006	3.11	57.71	45.87	0.69
Cuggiani_monte	8371.26 Cugg.3 Castelsar											
Cuggiani_monte	8349.23	Tr 50	71.21	78.60	80.49	80.00	80.63	0.001879	1.80	51.32	51.66	0.46
Cuggiani_monte	8349.23	Tr 100	86.56	78.60	80.66	80.09	80.81	0.001812	1.89	60.24	53.63	0.46
Cuggiani_monte	8349.23	Tr 200	102.24	78.60	80.82	80.27	80.98	0.001775	1.98	68.68	55.43	0.46
Cuggiani_monte	8349.23	Tr 500	123.33	78.60	81.02	80.42	81.19	0.001706	2.08	80.02	57.78	0.46

Reach	River Sta	Profile	Q Total (m ³ /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 (m ²)	Top Width (m)	Froude # Chl
Cuggiani_monte	8325.48	Tr 50	71.21	78.60	80.05	80.05	80.52	0.008039	3.51	28.48	31.81	0.94
Cuggiani_monte	8325.48	Tr 100	86.56	78.60	80.26	80.26	80.71	0.006646	3.50	36.32	40.63	0.88
Cuggiani_monte	8325.48	Tr 200	102.24	78.60	80.35	80.35	80.87	0.007300	3.80	39.98	42.36	0.93
Cuggiani_monte	8325.48	Tr 500	123.33	78.60	80.60	80.60	81.09	0.006096	3.81	52.42	53.48	0.87
Cuggiani_monte	8303.45	Tr 50	71.21	78.00	79.59	79.49	79.96	0.007372	2.99	31.23	40.01	0.86
Cuggiani_monte	8303.45	Tr 100	86.56	78.00	79.73	79.67	80.12	0.006917	3.12	37.29	44.97	0.85
Cuggiani_monte	8303.45	Tr 200	102.24	78.00	79.88	79.81	80.27	0.006317	3.19	44.07	48.05	0.83
Cuggiani_monte	8303.45	Tr 500	123.33	78.00	80.05	79.94	80.45	0.005796	3.28	52.50	49.62	0.81
Cuggiani_monte	8279.7	Tr 50	71.21	77.40	79.35	79.35	79.76	0.008128	3.36	30.48	36.89	0.92
Cuggiani_monte	8279.7	Tr 100	86.56	77.40	79.47	79.47	79.93	0.008318	3.59	34.92	38.43	0.94
Cuggiani_monte	8279.7	Tr 200	102.24	77.40	79.58	79.58	80.08	0.008405	3.79	39.33	39.78	0.96
Cuggiani_monte	8279.7	Tr 500	123.33	77.40	79.73	79.73	80.27	0.008214	3.98	45.53	41.53	0.96
Cuggiani_monte	8253.39	Tr 50	71.21	76.50	78.51	78.51	79.08	0.007914	3.49	23.99	24.10	0.92
Cuggiani_monte	8253.39	Tr 100	86.56	76.50	78.69	78.69	79.31	0.007595	3.69	28.46	27.13	0.92
Cuggiani_monte	8253.39	Tr 200	102.24	76.50	78.89	78.89	79.52	0.006715	3.75	34.46	31.90	0.88
Cuggiani_monte	8253.39	Tr 500	123.33	76.50	79.10	79.10	79.75	0.006300	3.90	41.57	36.67	0.87
Cuggiani_monte	8227.08	Tr 50	71.21	75.90	78.09	78.09	78.66	0.008655	3.35	22.43	23.62	0.95
Cuggiani_monte	8227.08	Tr 100	86.56	75.90	78.27	78.27	78.88	0.007938	3.50	26.87	25.60	0.93
Cuggiani_monte	8227.08	Tr 200	102.24	75.90	78.43	78.43	79.09	0.007563	3.66	31.03	26.76	0.92
Cuggiani_monte	8227.08	Tr 500	123.33	75.90	78.62	78.62	79.34	0.007281	3.87	36.22	28.00	0.92
Cuggiani_monte	8202.07	Tr 50	71.21	75.00	77.72		77.98	0.003028	2.38	33.47	23.73	0.58
Cuggiani_monte	8202.07	Tr 100	86.56	75.00	77.94		78.24	0.002889	2.52	38.89	24.72	0.57
Cuggiani_monte	8202.07	Tr 200	102.24	75.00	78.14		78.47	0.002814	2.66	44.04	25.61	0.58
Cuggiani_monte	8202.07	Tr 500	123.33	75.00	78.41		78.77	0.002676	2.80	51.10	26.85	0.57
Cuggiani_monte	8177.06	Tr 50	71.21	74.70	77.51		77.89	0.004149	2.70	26.37	15.57	0.66
Cuggiani_monte	8177.06	Tr 100	86.56	74.70	77.66		78.12	0.004880	3.01	28.73	16.24	0.72
Cuggiani_monte	8177.06	Tr 200	102.24	74.70	77.79		78.35	0.005434	3.31	30.89	16.85	0.77
Cuggiani_monte	8177.06	Tr 500	123.33	74.70	77.94	77.69	78.64	0.006152	3.70	33.41	17.56	0.83
Cuggiani_monte	8152.05	Tr 50	71.21	74.10	77.58		77.77	0.001659	1.89	37.67	19.12	0.43
Cuggiani_monte	8152.05	Tr 100	86.56	74.10	77.75		77.98	0.001917	2.11	40.98	19.86	0.47
Cuggiani_monte	8152.05	Tr 200	102.24	74.10	77.91		78.18	0.002131	2.32	44.15	20.53	0.50
Cuggiani_monte	8152.05	Tr 500	123.33	74.10	78.10		78.44	0.002401	2.58	48.09	21.26	0.53
Cuggiani_monte	8127.04	Tr 50	71.21	75.00	77.57		77.71	0.001449	1.99	51.20	34.56	0.43
Cuggiani_monte	8127.04	Tr 100	86.56	75.00	77.75		77.92	0.001557	2.17	57.57	36.18	0.45
Cuggiani_monte	8127.04	Tr 200	102.24	75.00	77.92		78.11	0.001635	2.33	63.87	37.62	0.47
Cuggiani_monte	8127.04	Tr 500	123.33	75.00	78.13		78.35	0.001721	2.52	71.94	39.35	0.49
Cuggiani_monte	8102.03	Tr 50	71.21	75.90	77.13	77.13	77.61	0.009433	3.10	24.14	26.77	0.97
Cuggiani_monte	8102.03	Tr 100	86.56	75.90	77.26	77.26	77.80	0.009096	3.31	27.85	27.70	0.97
Cuggiani_monte	8102.03	Tr 200	102.24	75.90	77.39	77.39	77.99	0.008838	3.49	31.47	28.57	0.97
Cuggiani_monte	8102.03	Tr 500	123.33	75.90	77.56	77.56	78.22	0.008400	3.69	36.43	29.99	0.97
Cuggiani_monte	8077.02	Tr 50	71.21	73.50	75.61	75.61	76.21	0.010366	3.45	20.66	17.35	1.01
Cuggiani_monte	8077.02	Tr 100	86.56	73.50	75.81	75.81	76.45	0.010073	3.55	24.39	19.23	1.01
Cuggiani_monte	8077.02	Tr 200	102.24	73.50	75.97	75.97	76.67	0.009926	3.70	27.67	20.71	1.01
Cuggiani_monte	8077.02	Tr 500	123.33	73.50	76.19	76.19	76.94	0.009147	3.84	32.36	22.63	0.99
Cuggiani_monte	8052.01	Tr 50	71.21	72.90	75.10	75.10	75.69	0.009153	3.42	21.43	20.40	0.97
Cuggiani_monte	8052.01	Tr 100	86.56	72.90	75.28	75.28	75.93	0.008570	3.61	25.23	22.31	0.96
Cuggiani_monte	8052.01	Tr 200	102.24	72.90	75.45	75.45	76.15	0.008057	3.77	29.17	23.96	0.95
Cuggiani_monte	8052.01	Tr 500	123.33	72.90	75.66	75.66	76.42	0.007415	3.94	34.62	25.96	0.93
Cuggiani_monte	8027	Tr 50	71.21	72.30	74.19	74.19	74.71	0.009197	3.37	24.26	24.95	0.97
Cuggiani_monte	8027	Tr 100	86.56	72.30	74.34	74.34	74.92	0.008854	3.57	28.18	26.52	0.97
Cuggiani_monte	8027	Tr 200	102.24	72.30	74.48	74.48	75.12	0.008582	3.76	32.12	28.45	0.98
Cuggiani_monte	8027	Tr 500	123.33	72.30	74.70	74.70	75.36	0.007654	3.88	38.59	31.81	0.94
Cuggiani_monte	8001.99	Tr 50	71.21	71.40	73.67	73.67	74.26	0.009827	3.40	21.25	20.85	0.99
Cuggiani_monte	8001.99	Tr 100	86.56	71.40	73.88	73.88	74.48	0.008629	3.45	26.22	25.00	0.94
Cuggiani_monte	8001.99	Tr 200	102.24	71.40	74.05	74.05	74.69	0.008179	3.57	30.64	27.19	0.93
Cuggiani_monte	8001.99	Tr 500	123.33	71.40	74.27	74.27	74.93	0.007823	3.67	36.87	31.69	0.93
Cuggiani_monte	7976.98	Tr 50	71.21	70.80	72.86	72.86	73.32	0.008783	3.32	27.34	30.49	0.95
Cuggiani_monte	7976.98	Tr 100	86.56	70.80	73.00	73.00	73.51	0.008808	3.55	31.55	33.32	0.96
Cuggiani_monte	7976.98	Tr 200	102.24	70.80	73.13	73.13	73.69	0.008465	3.71	36.40	36.64	0.96
Cuggiani_monte	7976.98	Tr 500	123.33	70.80	73.31	73.31	73.89	0.007890	3.86	43.28	39.76	0.94
Cuggiani_monte	7951.97	Tr 50	71.21	70.50	71.69	71.69	72.08	0.011568	3.36	29.46	40.48	1.06
Cuggiani_monte	7951.97	Tr 100	86.56	70.50	71.81	71.81	72.24	0.011254	3.56	34.30	42.45	1.07
Cuggiani_monte	7951.97	Tr 200	102.24	70.50	71.91	71.91	72.38	0.011206	3.77	38.76	44.14	1.08
Cuggiani_monte	7951.97	Tr 500	123.33	70.50	72.06	72.06	72.56	0.010468	3.92	45.45	46.22	1.06
Cuggiani_monte	7926.96	Tr 50	71.21	69.60	71.02	71.02	71.49	0.007771	3.17	26.54	33.83	0.91
Cuggiani_monte	7926.96	Tr 100	86.56	69.60	71.19	71.19	71.67	0.006777	3.23	32.99	37.70	0.87
Cuggiani_monte	7926.96	Tr 200	102.24	69.60	71.32	71.32	71.84	0.006776	3.42	37.67	39.17	0.88
Cuggiani_monte	7926.96	Tr 500	123.33	69.60	71.47	71.47	72.04	0.006757	3.63	43.69	41.01	0.89
Cuggiani_monte	7901.95	Tr 50	71.21	68.10	70.33		70.45	0.002118	1.80	58.26	71.66	0.48
Cuggiani_monte	7901.95	Tr 100	86.56	68.10	70.59		70.69	0.001454	1.66	77.14	74.93	0.41
Cuggiani_monte	7901.95	Tr 200	102.24	68.10	70.83		70.91	0.001128	1.59	95.01	77.58	0.37
Cuggiani_monte	7901.95	Tr 500	123.33	68.10	71.01		71.10	0.001097	1.67	109.55	80.11	0.37
Cuggiani_monte	7876.94	Tr 50	71.21	67.20	69.66	69.66	70.30	0.009452	3.56	20.20	18.66	0.98
Cuggiani_monte	7876.94	Tr 100	86.56	67.20	69.88	69.88	70.56	0.008612	3.65	24.65	20.83	0.95
Cuggiani_monte	7876.94	Tr 200	102.24	67.20	70.06	70.06	70.79	0.008215	3.82	28.62	24.22	0.95
Cuggiani_monte	7876.94	Tr 500	123.33	67.20	70.48	70.48	71.01	0.004773	3.38	48.40	63.15	0.75

HEC-RAS Plan: Art 8 comma 2 (Continued)

Reach	River Sta	Profile	Q Total (m ³ /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 (m ²)	Top Width (m)	Froude # Chl
Cuggiani_monte	7851.93	Tr 50	71.21	67.20	68.50	68.50	68.90	0.007897	2.90	28.38	40.89	0.89
Cuggiani_monte	7851.93	Tr 100	86.56	67.20	68.62	68.62	69.06	0.007610	3.06	33.66	43.35	0.89
Cuggiani_monte	7851.93	Tr 200	102.24	67.20	68.74	68.74	69.21	0.007455	3.22	38.71	45.67	0.90
Cuggiani_monte	7851.93	Tr 500	123.33	67.20	68.88	68.88	69.40	0.007299	3.41	45.25	48.75	0.90
Cuggiani_monte	7826.92	Tr 50	71.21	66.00	67.53	67.53	67.90	0.011977	3.41	29.77	37.43	1.06
Cuggiani_monte	7826.92	Tr 100	86.56	66.00	67.64	67.64	68.05	0.012042	3.57	33.92	38.20	1.08
Cuggiani_monte	7826.92	Tr 200	102.24	66.00	67.75	67.75	68.19	0.012143	3.72	37.85	38.92	1.09
Cuggiani_monte	7826.92	Tr 500	123.33	66.00	67.90	67.90	68.34	0.011920	3.63	43.90	41.02	1.08
Cuggiani_monte	7801.91	Tr 50	71.21	65.70	67.04	67.04	67.40	0.012572	3.15	29.56	40.15	1.08
Cuggiani_monte	7801.91	Tr 100	86.56	65.70	67.15	67.14	67.55	0.012349	3.33	33.88	41.17	1.09
Cuggiani_monte	7801.91	Tr 200	102.24	65.70	67.28	67.24	67.69	0.010976	3.37	39.41	42.48	1.04
Cuggiani_monte	7801.91	Tr 500	123.33	65.70	67.43	67.36	67.86	0.010124	3.47	45.97	43.99	1.02
Cuggiani_monte	7776.9	Tr 50	71.21	65.10	66.64	66.64	67.04	0.016179	3.24	26.66	34.81	1.18
Cuggiani_monte	7776.9	Tr 100	86.56	65.10	66.76	66.76	67.20	0.015425	3.42	30.67	35.54	1.17
Cuggiani_monte	7776.9	Tr 200	102.24	65.10	66.85	66.85	67.35	0.015362	3.66	34.09	36.15	1.19
Cuggiani_monte	7776.9	Tr 500	123.33	65.10	66.99	66.99	67.54	0.014612	3.89	38.96	37.02	1.19
Cuggiani_monte	7751.89	Tr 50	71.21	64.20	66.55	66.55	66.74	0.002945	2.07	43.05	45.14	0.56
Cuggiani_monte	7751.89	Tr 100	86.56	64.20	66.65	66.65	66.87	0.003302	2.30	47.66	47.02	0.60
Cuggiani_monte	7751.89	Tr 200	102.24	64.20	66.73	66.70	67.00	0.003735	2.53	51.51	48.56	0.65
Cuggiani_monte	7751.89	Tr 500	123.33	64.20	66.79	66.79	67.14	0.004717	2.92	54.30	49.64	0.73
Cuggiani_monte	7726.88	Tr 50	71.21	64.20	66.32	66.32	66.62	0.006301	3.04	39.56	59.24	0.81
Cuggiani_monte	7726.88	Tr 100	86.56	64.20	66.39	66.39	66.74	0.007133	3.34	43.94	60.90	0.87
Cuggiani_monte	7726.88	Tr 200	102.24	64.20	66.47	66.47	66.86	0.007448	3.54	49.17	62.83	0.90
Cuggiani_monte	7726.88	Tr 500	123.33	64.20	66.61	66.61	67.00	0.006982	3.63	58.14	65.81	0.88
Cuggiani_monte	7701.8	Tr 50	71.21	62.70	65.06	65.06	65.46	0.005816	3.12	32.61	40.78	0.79
Cuggiani_monte	7701.8	Tr 100	86.56	62.70	65.18	65.18	65.62	0.006150	3.36	37.32	41.83	0.82
Cuggiani_monte	7701.8	Tr 200	102.24	62.70	65.29	65.29	65.77	0.006230	3.54	42.28	42.76	0.84
Cuggiani_monte	7701.8	Tr 500	123.33	62.70	65.43	65.43	65.96	0.006515	3.79	47.99	44.06	0.87
Cuggiani_monte	7676.72	Tr 50	71.21	63.00	64.63	64.63	64.99	0.007463	3.04	33.22	48.06	0.88
Cuggiani_monte	7676.72	Tr 100	86.56	63.00	64.74	64.74	65.13	0.007343	3.20	38.93	50.66	0.89
Cuggiani_monte	7676.72	Tr 200	102.24	63.00	64.84	64.84	65.27	0.007443	3.38	44.01	52.60	0.90
Cuggiani_monte	7676.72	Tr 500	123.33	63.00	64.96	64.96	65.43	0.007572	3.59	50.36	54.50	0.92
Cuggiani_monte	7651.64	Tr 50	71.21	62.70	64.09	64.09	64.37	0.009223	3.17	37.37	63.96	0.96
Cuggiani_monte	7651.64	Tr 100	86.56	62.70	64.17	64.17	64.49	0.009512	3.38	42.76	66.22	0.99
Cuggiani_monte	7651.64	Tr 200	102.24	62.70	64.25	64.25	64.59	0.009765	3.57	47.90	67.90	1.01
Cuggiani_monte	7651.64	Tr 500	123.33	62.70	64.35	64.35	64.72	0.009854	3.77	54.71	69.78	1.03
Cuggiani_monte	7626.56	Tr 50	71.21	61.50	63.45	63.45	63.82	0.005918	3.08	33.36	42.24	0.81
Cuggiani_monte	7626.56	Tr 100	86.56	61.50	63.53	63.53	63.98	0.006729	3.41	36.98	43.08	0.87
Cuggiani_monte	7626.56	Tr 200	102.24	61.50	63.70	63.70	64.13	0.005826	3.40	45.99	60.09	0.82
Cuggiani_monte	7626.56	Tr 500	123.33	61.50	63.83	63.83	64.29	0.005923	3.59	53.90	62.65	0.84
Cuggiani_monte	7601.53	Tr 50	71.21	62.10	63.06	63.06	63.45	0.018992	2.82	25.82	33.76	1.22
Cuggiani_monte	7601.53	Tr 100	86.56	62.10	63.18	63.18	63.60	0.018857	2.88	30.16	37.38	1.22
Cuggiani_monte	7601.53	Tr 200	102.24	62.10	63.37	63.37	63.73	0.016819	2.99	39.22	64.03	1.18
Cuggiani_monte	7601.53	Tr 500	123.33	62.10	63.48	63.48	63.87	0.015590	3.19	46.21	65.61	1.17
Cuggiani_monte	7576.5	Tr 50	71.21	61.50	62.71	62.71	62.93	0.005604	2.55	39.04	45.13	0.76
Cuggiani_monte	7576.5	Tr 100	86.56	61.50	62.87	62.87	63.10	0.004985	2.62	46.30	46.96	0.74
Cuggiani_monte	7576.5	Tr 200	102.24	61.50	63.02	63.02	63.27	0.004618	2.72	53.74	64.14	0.72
Cuggiani_monte	7576.5	Tr 500	123.33	61.50	63.23	63.23	63.46	0.003780	2.69	67.55	67.25	0.67
Cuggiani_monte	7551.52	Tr 50	71.21	60.90	62.60	62.60	62.80	0.004715	2.63	40.37	38.62	0.71
Cuggiani_monte	7551.52	Tr 100	86.56	60.90	62.76	62.76	62.98	0.004498	2.76	46.68	39.58	0.71
Cuggiani_monte	7551.52	Tr 200	102.24	60.90	62.92	62.92	63.15	0.004307	2.88	52.89	40.43	0.70
Cuggiani_monte	7551.52	Tr 500	123.33	60.90	63.11	63.11	63.36	0.004179	3.04	60.59	41.58	0.70
Cuggiani_monte	7526.54	Tr 50	71.21	59.70	62.46	62.46	62.68	0.004023	2.70	38.78	31.84	0.63
Cuggiani_monte	7526.54	Tr 100	86.56	59.70	62.60	62.60	62.86	0.004316	2.93	43.26	32.60	0.66
Cuggiani_monte	7526.54	Tr 200	102.24	59.70	62.73	62.73	63.03	0.004568	3.15	47.82	39.67	0.69
Cuggiani_monte	7526.54	Tr 500	123.33	59.70	62.90	62.90	63.24	0.004779	3.39	54.69	41.54	0.71
Cuggiani_monte	7501.4	Tr 50	71.21	60.00	62.12	62.12	62.52	0.009231	3.43	29.51	33.55	0.96
Cuggiani_monte	7501.4	Tr 100	86.56	60.00	62.23	62.23	62.69	0.009448	3.68	33.46	34.12	0.98
Cuggiani_monte	7501.4	Tr 200	102.24	60.00	62.34	62.34	62.85	0.009753	3.92	37.07	34.63	1.01
Cuggiani_monte	7501.4	Tr 500	123.33	60.00	62.47	62.47	63.05	0.009939	4.18	41.83	35.41	1.03
Cuggiani_monte	7476.26	Tr 50	71.21	59.10	61.46	61.46	62.05	0.007109	3.53	24.77	27.95	0.88
Cuggiani_monte	7476.26	Tr 100	86.56	59.10	61.76	61.76	62.25	0.005084	3.34	35.83	42.64	0.76
Cuggiani_monte	7476.26	Tr 200	102.24	59.10	61.90	61.90	62.41	0.005068	3.49	41.93	44.65	0.77
Cuggiani_monte	7476.26	Tr 500	123.33	59.10	62.05	62.05	62.60	0.005252	3.72	48.60	45.72	0.79
Cuggiani_monte	7451.21	Tr 50	71.21	59.10	61.36	61.36	61.75	0.006047	3.17	32.21	37.35	0.81
Cuggiani_monte	7451.21	Tr 100	86.56	59.10	61.45	61.45	61.92	0.006841	3.50	35.68	38.01	0.87
Cuggiani_monte	7451.21	Tr 200	102.24	59.10	61.65	61.65	62.11	0.006003	3.53	44.43	47.20	0.83
Cuggiani_monte	7451.21	Tr 500	123.33	59.10	61.79	61.79	62.28	0.006100	3.74	51.25	49.69	0.84
Cuggiani_monte	7426.16	Tr 50	71.21	58.80	60.72	60.72	61.13	0.005755	3.25	32.96	42.31	0.81
Cuggiani_monte	7426.16	Tr 100	86.56	58.80	60.86	60.86	61.30	0.005618	3.40	39.44	47.11	0.81
Cuggiani_monte	7426.16	Tr 200	102.24	58.80	60.97	60.97	61.45	0.005860	3.61	44.76	49.89	0.84
Cuggiani_monte	7426.16	Tr 500	123.33	58.80	61.13	61.13	61.63	0.005809	3.79	52.76	53.24	0.85
Cuggiani_monte	7401.15	Tr 50	71.21	58.20	60.57	60.57	60.88	0.006343	2.92	38.08	56.97	0.79
Cuggiani_monte	7401.15	Tr 100	86.56	58.20	60.66	60.66	61.01	0.006781	3.15	43.19	58.12	0.83
Cuggiani_monte	7401.15	Tr 200	102.24	58.20	60.74	60.74	61.12	0.007114	3.35	48.13	59.17	0.86
Cuggiani_monte	7401.15	Tr 500	123.33	58.20	60.86	60.86	61.27	0.007278	3.55	54.87	60.58	0.88

HEC-RAS Plan: Art_8_comma 2 (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
Cuggiani_monte	7376.14	Tr 50	71.21	57.30	60.11	60.11	60.56	0.004991	3.14	30.89	47.28	0.74
Cuggiani_monte	7376.14	Tr 100	86.56	57.30	60.29	60.29	60.73	0.004538	3.19	40.43	54.64	0.72
Cuggiani_monte	7376.14	Tr 200	102.24	57.30	60.44	60.44	60.87	0.004386	3.28	48.37	56.47	0.71
Cuggiani_monte	7376.14	Tr 500	123.33	57.30	60.57	60.57	61.03	0.004553	3.49	56.20	57.76	0.73
Cuggiani_monte	7351.13	Tr 50	71.21	57.60	59.88	59.88	60.32	0.005549	3.10	30.50	43.38	0.77
Cuggiani_monte	7351.13	Tr 100	86.56	57.60	60.07	60.07	60.49	0.004931	3.14	39.53	55.52	0.74
Cuggiani_monte	7351.13	Tr 200	102.24	57.60	60.18	60.18	60.63	0.005046	3.31	45.85	56.39	0.76
Cuggiani_monte	7351.13	Tr 500	123.33	57.60	60.31	60.31	60.79	0.005308	3.53	52.96	57.38	0.79
Cuggiani_monte	7326.12	Tr 50	71.21	57.00	59.60	59.60	59.98	0.005112	3.01	34.91	49.47	0.74
Cuggiani_monte	7326.12	Tr 100	86.56	57.00	59.73	59.73	60.13	0.005294	3.21	41.12	52.31	0.76
Cuggiani_monte	7326.12	Tr 200	102.24	57.00	59.84	59.84	60.27	0.005396	3.37	47.34	55.81	0.77
Cuggiani_monte	7326.12	Tr 500	123.33	57.00	59.98	59.98	60.44	0.005412	3.54	55.67	60.17	0.78
Cuggiani_monte	7301.11	Tr 50	71.21	56.10	59.22	59.22	59.56	0.005669	2.91	35.94	56.27	0.75
Cuggiani_monte	7301.11	Tr 100	86.56	56.10	59.33	59.33	59.70	0.005839	3.09	42.18	57.62	0.76
Cuggiani_monte	7301.11	Tr 200	102.24	56.10	59.43	59.43	59.82	0.005975	3.25	48.03	58.71	0.78
Cuggiani_monte	7301.11	Tr 500	123.33	56.10	59.53	59.53	59.97	0.006388	3.50	54.30	59.43	0.82
Cuggiani_monte	7276.1	Tr 50	71.21	56.10	58.54	58.54	58.98	0.005875	3.10	29.07	38.26	0.79
Cuggiani_monte	7276.1	Tr 100	86.56	56.10	58.69	58.69	59.16	0.005724	3.25	34.94	38.93	0.79
Cuggiani_monte	7276.1	Tr 200	102.24	56.10	58.80	58.80	59.32	0.005925	3.46	39.54	39.48	0.81
Cuggiani_monte	7276.1	Tr 500	123.33	56.10	58.96	58.96	59.52	0.005935	3.66	45.92	41.08	0.82
Cuggiani_monte	7251.09	Tr 50	71.21	55.80	58.17	58.17	58.64	0.006178	3.25	28.89	36.78	0.80
Cuggiani_monte	7251.09	Tr 100	86.56	55.80	58.36	58.36	58.82	0.005471	3.28	36.64	40.42	0.76
Cuggiani_monte	7251.09	Tr 200	102.24	55.80	58.48	58.48	58.98	0.005667	3.48	41.47	41.16	0.78
Cuggiani_monte	7251.09	Tr 500	123.33	55.80	58.62	58.62	59.17	0.005949	3.73	47.27	42.16	0.81
Cuggiani_monte	7226.08	Tr 50	71.21	55.20	57.72	57.72	58.25	0.006484	3.31	25.36	28.55	0.83
Cuggiani_monte	7226.08	Tr 100	86.56	55.20	57.86	57.86	58.46	0.006876	3.60	29.32	29.66	0.86
Cuggiani_monte	7226.08	Tr 200	102.24	55.20	58.01	58.01	58.67	0.006897	3.81	34.04	33.39	0.88
Cuggiani_monte	7226.08	Tr 500	123.33	55.20	58.28	58.28	58.90	0.005700	3.79	44.43	41.39	0.82
Cuggiani_monte	7201.07	Tr 50	71.21	55.20	57.52	57.52	58.02	0.007546	3.31	26.77	29.48	0.87
Cuggiani_monte	7201.07	Tr 100	86.56	55.20	57.71	57.71	58.21	0.007347	3.40	32.72	34.01	0.86
Cuggiani_monte	7201.07	Tr 200	102.24	55.20	57.85	57.85	58.38	0.007486	3.54	37.60	36.49	0.88
Cuggiani_monte	7201.07	Tr 500	123.33	55.20	58.00	58.00	58.58	0.007651	3.78	43.23	39.22	0.90
Cuggiani_monte	7176.06	Tr 50	71.21	54.90	57.43		57.72	0.003966	2.65	36.60	43.91	0.65
Cuggiani_monte	7176.06	Tr 100	86.56	54.90	57.56		57.89	0.004215	2.87	42.37	46.25	0.67
Cuggiani_monte	7176.06	Tr 200	102.24	54.90	57.66	57.53	58.04	0.004617	3.11	47.11	48.79	0.71
Cuggiani_monte	7176.06	Tr 500	123.33	54.90	57.72	57.66	58.21	0.005747	3.55	50.46	50.87	0.80
Cuggiani_monte	7151.05	Tr 50	71.21	54.60	57.19	57.19	57.60	0.005224	3.05	33.02	47.96	0.74
Cuggiani_monte	7151.05	Tr 100	86.56	54.60	57.32	57.32	57.76	0.005421	3.25	39.33	52.19	0.76
Cuggiani_monte	7151.05	Tr 200	102.24	54.60	57.44	57.44	57.90	0.005498	3.42	45.81	55.71	0.78
Cuggiani_monte	7151.05	Tr 500	123.33	54.60	57.61	57.61	58.07	0.005242	3.52	55.61	60.61	0.77
Cuggiani_monte	7126.04	Tr 50	71.21	54.30	56.57		56.70	0.002862	2.01	53.19	61.85	0.54
Cuggiani_monte	7126.04	Tr 100	86.56	54.30	57.06		57.13	0.001147	1.56	85.39	70.41	0.36
Cuggiani_monte	7126.04	Tr 200	102.24	54.30	56.75		56.93	0.003487	2.41	64.44	65.12	0.61
Cuggiani_monte	7126.04	Tr 500	123.33	54.30	56.89		57.08	0.003519	2.56	73.53	67.25	0.62
Cuggiani_monte	7106.18	Tr 50	71.21	53.10	56.58		56.65	0.000761	1.41	76.30	64.41	0.30
Cuggiani_monte	7106.18	Tr 100	86.56	53.10	57.06		57.11	0.000481	1.27	111.05	80.48	0.24
Cuggiani_monte	7106.18	Tr 200	102.24	53.10	56.75		56.86	0.001137	1.81	87.93	71.40	0.37
Cuggiani_monte	7106.18	Tr 500	123.33	53.10	56.88		57.01	0.001312	2.01	97.55	75.36	0.40
Cuggiani_monte	7092.89	Tr 50	71.21	53.70	56.51	56.10	56.62	0.001456	1.76	60.07	61.89	0.41
Cuggiani_monte	7092.89	Tr 100	86.56	53.70	57.03	56.10	57.09	0.000712	1.44	98.60	83.63	0.30
Cuggiani_monte	7092.89	Tr 200	102.24	53.70	56.63	56.18	56.82	0.002377	2.33	67.55	69.34	0.52
Cuggiani_monte	7092.89	Tr 500	123.33	53.70	56.73	56.31	56.96	0.002774	2.61	75.00	75.00	0.57
Cuggiani_monte	7079.6	Cuggiani 5	Bridge									
Cuggiani_monte	7061.55	Tr 50	71.21	53.40	56.07	56.07	56.50	0.003885	3.13	33.94	75.36	0.69
Cuggiani_monte	7061.55	Tr 100	86.56	53.40	55.80	55.80	56.95	0.011309	4.88	21.99	57.47	1.14
Cuggiani_monte	7061.55	Tr 200	102.24	53.40	56.10	56.10	56.34	0.002992	2.58	65.16	75.99	0.60
Cuggiani_monte	7061.55	Tr 500	123.33	53.40	56.10	56.10	56.45	0.004354	3.11	65.16	75.99	0.72
Cuggiani_monte	7036.54	Tr 50	71.21	53.40	54.81	54.81	55.20	0.012010	3.35	28.98	43.16	1.07
Cuggiani_monte	7036.54	Tr 100	86.56	53.40	54.95	54.95	55.35	0.010765	3.45	35.38	49.65	1.04
Cuggiani_monte	7036.54	Tr 200	102.24	53.40	55.06	55.06	55.48	0.010322	3.60	41.08	53.49	1.03
Cuggiani_monte	7036.54	Tr 500	123.33	53.40	55.20	55.20	55.65	0.009538	3.72	49.24	58.50	1.01
Cuggiani_monte	7011.53	Tr 50	71.21	52.20	54.56	54.56	54.97	0.004916	3.22	34.56	45.67	0.75
Cuggiani_monte	7011.53	Tr 100	86.56	52.20	54.68	54.68	55.13	0.005127	3.43	40.69	48.98	0.77
Cuggiani_monte	7011.53	Tr 200	102.24	52.20	54.82	54.82	55.28	0.005045	3.56	47.64	52.36	0.77
Cuggiani_monte	7011.53	Tr 500	123.33	52.20	54.95	54.95	55.45	0.005350	3.81	54.77	55.75	0.80
Cuggiani_monte	6986.52	Tr 50	71.21	52.50	54.38	54.38	54.66	0.006243	2.65	37.52	55.87	0.79
Cuggiani_monte	6986.52	Tr 100	86.56	52.50	54.46	54.46	54.78	0.007430	2.85	41.95	58.44	0.86
Cuggiani_monte	6986.52	Tr 200	102.24	52.50	54.52	54.52	54.88	0.008484	3.08	45.70	60.56	0.92
Cuggiani_monte	6986.52	Tr 500	123.33	52.50	54.63	54.63	55.03	0.008556	3.27	52.08	63.73	0.94
Cuggiani_monte	6961.51	Tr 50	71.21	51.90	53.54	53.54	53.82	0.007119	2.92	39.91	67.23	0.85
Cuggiani_monte	6961.51	Tr 100	86.56	51.90	53.63	53.63	53.94	0.007216	3.09	46.12	69.13	0.86
Cuggiani_monte	6961.51	Tr 200	102.24	51.90	53.70	53.70	54.04	0.007715	3.31	50.99	70.58	0.90
Cuggiani_monte	6961.51	Tr 500	123.33	51.90	53.80	53.80	54.18	0.007891	3.51	58.49	74.13	0.92
Cuggiani_monte	6936.52	Tr 50	71.21	51.60	53.32		53.52	0.004299	2.34	46.68	70.22	0.67
Cuggiani_monte	6936.52	Tr 100	86.56	51.60	53.59		53.73	0.002534	2.05	66.74	78.63	0.53

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
Cuggiani_monte	6936.52	Tr 200	102.24	51.60	53.38	53.38	53.73	0.007330	3.14	50.37	72.18	0.88
Cuggiani_monte	6936.52	Tr 500	123.33	51.60	53.49	53.49	53.86	0.007195	3.29	58.70	75.64	0.88
Cuggiani_monte	6911.53	Tr 50	71.21	51.00	52.74	52.74	53.32	0.010357	4.02	27.41	35.08	1.05
Cuggiani_monte	6911.53	Tr 100	86.56	51.00	52.79	52.79	53.55	0.013280	4.64	28.96	35.50	1.19
Cuggiani_monte	6911.53	Tr 200	102.24	51.00	53.21	53.21	53.55	0.005299	3.44	56.60	75.65	0.79
Cuggiani_monte	6911.53	Tr 500	123.33	51.00	53.31	53.31	53.69	0.005615	3.67	64.73	79.22	0.82
Cuggiani_monte	6886.49	Tr 50	71.21	50.40	52.36	52.36	52.75	0.007268	3.15	32.17	48.12	0.87
Cuggiani_monte	6886.49	Tr 100	86.56	50.40	52.52	52.52	52.91	0.006358	3.18	41.11	59.10	0.83
Cuggiani_monte	6886.49	Tr 200	102.24	50.40	52.63	52.63	53.03	0.006356	3.33	47.53	61.95	0.84
Cuggiani_monte	6886.49	Tr 500	123.33	50.40	52.75	52.75	53.19	0.006501	3.53	55.15	65.18	0.85
Cuggiani_monte	6861.45	Tr 50	71.21	50.10	52.11		52.29	0.004226	2.34	46.91	65.99	0.66
Cuggiani_monte	6861.45	Tr 100	86.56	50.10	52.27		52.44	0.003700	2.35	57.33	71.00	0.63
Cuggiani_monte	6861.45	Tr 200	102.24	50.10	52.40		52.57	0.003413	2.40	66.86	74.18	0.61
Cuggiani_monte	6861.45	Tr 500	123.33	50.10	52.56		52.74	0.003148	2.46	79.19	78.53	0.59
Cuggiani_monte	6836.44	Tr 50	71.21	49.80	51.81	51.81	52.15	0.005986	2.98	35.98	51.26	0.78
Cuggiani_monte	6836.44	Tr 100	86.56	49.80	51.89	51.89	52.30	0.006731	3.28	40.29	52.75	0.84
Cuggiani_monte	6836.44	Tr 200	102.24	49.80	52.01	52.01	52.43	0.006602	3.41	46.95	57.22	0.84
Cuggiani_monte	6836.44	Tr 500	123.33	49.80	52.13	52.13	52.60	0.006898	3.66	54.17	61.85	0.87
Cuggiani_monte	6811.43	Tr 50	71.21	49.50	51.50	51.50	51.85	0.007045	3.08	34.64	48.60	0.85
Cuggiani_monte	6811.43	Tr 100	86.56	49.50	51.61	51.61	51.99	0.007187	3.28	40.12	50.88	0.87
Cuggiani_monte	6811.43	Tr 200	102.24	49.50	51.70	51.70	52.13	0.007519	3.49	44.91	52.73	0.89
Cuggiani_monte	6811.43	Tr 500	123.33	49.50	51.83	51.83	52.29	0.007598	3.70	51.73	55.26	0.91
Cuggiani_monte	6786.27	Tr 50	71.21	49.20	51.23	51.23	51.57	0.006749	3.10	35.55	49.78	0.83
Cuggiani_monte	6786.27	Tr 100	86.56	49.20	51.32	51.32	51.71	0.007362	3.38	40.13	51.65	0.88
Cuggiani_monte	6786.27	Tr 200	102.24	49.20	51.42	51.42	51.85	0.007542	3.57	45.72	56.32	0.90
Cuggiani_monte	6786.27	Tr 500	123.33	49.20	51.58	51.58	52.01	0.007073	3.68	55.03	63.32	0.88
Cuggiani_monte	6760.92	Tr 50	71.21	48.90	51.06		51.30	0.004695	2.63	42.24	53.97	0.71
Cuggiani_monte	6760.92	Tr 100	86.56	48.90	51.21		51.45	0.004329	2.69	50.31	56.03	0.69
Cuggiani_monte	6760.92	Tr 200	102.24	48.90	51.35		51.59	0.004038	2.75	58.24	57.87	0.67
Cuggiani_monte	6760.92	Tr 500	123.33	48.90	51.52		51.77	0.003769	2.84	68.25	59.87	0.66
Cuggiani_monte	6735.76	Tr 50	71.21	49.20	51.07		51.15	0.003304	1.59	57.38	66.90	0.54
Cuggiani_monte	6735.76	Tr 100	86.56	49.20	51.22		51.31	0.002890	1.66	67.91	68.30	0.52
Cuggiani_monte	6735.76	Tr 200	102.24	49.20	51.37		51.46	0.002653	1.73	77.88	69.91	0.51
Cuggiani_monte	6735.76	Tr 500	123.33	49.20	51.54		51.65	0.002480	1.84	90.32	72.32	0.50
Cuggiani_monte	6710.38	Tr 50	71.21	48.00	50.96		51.07	0.002650	1.89	50.38	44.67	0.49
Cuggiani_monte	6710.38	Tr 100	86.56	48.00	51.10		51.24	0.002778	2.05	56.89	46.92	0.51
Cuggiani_monte	6710.38	Tr 200	102.24	48.00	51.23		51.39	0.002890	2.20	63.16	48.71	0.52
Cuggiani_monte	6710.38	Tr 500	123.33	48.00	51.39		51.57	0.003044	2.38	71.22	54.58	0.55
Cuggiani_monte	6685.03	Tr 50	71.21	48.60	50.95		51.01	0.001275	1.39	68.57	52.29	0.36
Cuggiani_monte	6685.03	Tr 100	86.56	48.60	51.10		51.17	0.001359	1.53	76.27	53.36	0.38
Cuggiani_monte	6685.03	Tr 200	102.24	48.60	51.23		51.31	0.001430	1.65	83.45	54.04	0.39
Cuggiani_monte	6685.03	Tr 500	123.33	48.60	51.39		51.49	0.001528	1.81	92.13	54.84	0.41
Cuggiani_monte	6660.02	Tr 50	71.21	48.30	50.91		50.98	0.001234	1.57	66.99	47.80	0.35
Cuggiani_monte	6660.02	Tr 100	86.56	48.30	51.05		51.13	0.001356	1.72	73.75	48.38	0.37
Cuggiani_monte	6660.02	Tr 200	102.24	48.30	51.18		51.28	0.001471	1.86	80.01	48.91	0.39
Cuggiani_monte	6660.02	Tr 500	123.33	48.30	51.33		51.45	0.001625	2.04	87.50	49.54	0.42
Cuggiani_monte	6634.64	Tr 50	71.21	48.00	50.51	50.51	50.88	0.007824	3.38	33.06	41.62	0.85
Cuggiani_monte	6634.64	Tr 100	86.56	48.00	50.63	50.63	51.03	0.008012	3.58	37.99	44.10	0.87
Cuggiani_monte	6634.64	Tr 200	102.24	48.00	50.74	50.74	51.17	0.007890	3.71	43.54	49.54	0.87
Cuggiani_monte	6634.64	Tr 500	123.33	48.00	50.87	50.87	51.34	0.008138	3.94	49.75	50.79	0.89
Cuggiani_monte	6609.63	Tr 50	71.21	47.70	50.17		50.34	0.004502	2.24	43.04	45.40	0.65
Cuggiani_monte	6609.63	Tr 100	86.56	47.70	50.30		50.49	0.004414	2.38	49.25	46.18	0.65
Cuggiani_monte	6609.63	Tr 200	102.24	47.70	50.44		50.65	0.004303	2.50	55.46	47.17	0.65
Cuggiani_monte	6609.63	Tr 500	123.33	47.70	50.59		50.83	0.004364	2.68	62.67	48.95	0.67
Cuggiani_monte	6584.32	Tr 50	71.21	47.40	50.06		50.23	0.004011	2.34	46.47	51.50	0.61
Cuggiani_monte	6584.32	Tr 100	86.56	47.40	50.21		50.39	0.003770	2.42	54.22	52.49	0.60
Cuggiani_monte	6584.32	Tr 200	102.24	47.40	50.36		50.54	0.003545	2.48	61.96	53.47	0.59
Cuggiani_monte	6584.32	Tr 500	123.33	47.40	50.52		50.72	0.003508	2.61	70.51	54.51	0.60
Cuggiani_monte	6559.01	Tr 50	71.21	47.10	50.02		50.15	0.002160	1.92	56.15	57.81	0.47
Cuggiani_monte	6559.01	Tr 100	86.56	47.10	50.17		50.30	0.002141	2.00	65.09	60.16	0.48
Cuggiani_monte	6559.01	Tr 200	102.24	47.10	50.32		50.46	0.002064	2.07	74.32	63.21	0.47
Cuggiani_monte	6559.01	Tr 500	123.33	47.10	50.48		50.64	0.002138	2.22	84.66	68.27	0.49
Cuggiani_monte	6534.43	Tr 50	71.21	46.80	49.63	49.63	50.02	0.008023	3.15	32.16	44.38	0.86
Cuggiani_monte	6534.43	Tr 100	86.56	46.80	49.75	49.75	50.18	0.008128	3.36	37.71	47.92	0.88
Cuggiani_monte	6534.43	Tr 200	102.24	46.80	49.84	49.84	50.33	0.008959	3.66	41.76	50.73	0.93
Cuggiani_monte	6534.43	Tr 500	123.33	46.80	49.95	49.95	50.50	0.009422	3.92	47.45	52.93	0.97
Cuggiani_monte	6509.34	Tr 50	71.21	46.80	49.23	49.23	49.66	0.009655	3.39	29.12	37.69	0.96
Cuggiani_monte	6509.34	Tr 100	86.56	46.80	49.31	49.31	49.82	0.010924	3.72	32.62	42.88	1.03
Cuggiani_monte	6509.34	Tr 200	102.24	46.80	49.59	49.59	49.99	0.007655	3.38	47.06	58.71	0.88
Cuggiani_monte	6509.34	Tr 500	123.33	46.80	49.70	49.70	50.13	0.007947	3.61	53.53	61.87	0.91
Cuggiani_monte	6484.26	Tr 50	71.21	46.50	48.66	48.66	48.98	0.008774	3.16	35.14	50.87	0.92
Cuggiani_monte	6484.26	Tr 100	86.56	46.50	48.76	48.76	49.11	0.008870	3.36	40.36	52.46	0.94
Cuggiani_monte	6484.26	Tr 200	102.24	46.50	48.83	48.83	49.24	0.009535	3.61	44.35	53.65	0.98
Cuggiani_monte	6484.26	Tr 500	123.33	46.50	48.93	48.93	49.39	0.010127	3.90	49.84	55.82	1.03
Cuggiani_monte	6459.67	Tr 50	71.21	45.60	48.30	48.30	48.59	0.006422	2.84	37.56	53.71	0.79
Cuggiani_monte	6459.67	Tr 100	86.56	45.60	48.37	48.36	48.72	0.007384	3.15	41.34	54.83	0.85

HEC-RAS Plan: Art_8_comma 2 (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
Cuggiani_monte	6459.67	Tr 200	102.24	45.60	48.46	48.45	48.85	0.007654	3.34	46.25	56.25	0.88
Cuggiani_monte	6459.67	Tr 500	123.33	45.60	48.57	48.57	49.00	0.007958	3.57	52.41	57.98	0.90
Cuggiani_monte	6434.66	Tr 50	71.21	46.50	48.37		48.44	0.001512	1.40	64.26	63.21	0.40
Cuggiani_monte	6434.66	Tr 100	86.56	46.50	48.47		48.56	0.001682	1.56	70.95	63.85	0.42
Cuggiani_monte	6434.66	Tr 200	102.24	46.50	48.57		48.67	0.001851	1.71	76.99	64.42	0.45
Cuggiani_monte	6434.66	Tr 500	123.33	46.50	48.67		48.80	0.002105	1.91	83.73	64.96	0.49
Cuggiani_monte	6409.65	Tr 50	71.21	47.10	48.09	48.09	48.34	0.012263	3.43	38.37	68.28	1.10
Cuggiani_monte	6409.65	Tr 100	86.56	47.10	48.13	48.13	48.45	0.014574	3.86	41.43	69.65	1.21
Cuggiani_monte	6409.65	Tr 200	102.24	47.10	48.23	48.23	48.55	0.013665	3.97	48.82	77.75	1.19
Cuggiani_monte	6409.65	Tr 500	123.33	47.10	48.38	48.38	48.68	0.011367	3.94	62.04	94.58	1.11
Cuggiani_monte	6384.64	Tr 50	71.21	44.70	47.29	47.29	47.66	0.006569	3.01	33.14	44.34	0.81
Cuggiani_monte	6384.64	Tr 100	86.56	44.70	47.40	47.40	47.81	0.006812	3.22	38.01	45.23	0.84
Cuggiani_monte	6384.64	Tr 200	102.24	44.70	47.50	47.50	47.95	0.007017	3.42	42.69	46.74	0.86
Cuggiani_monte	6384.64	Tr 500	123.33	44.70	47.61	47.61	48.12	0.007526	3.70	47.93	48.38	0.90
Cuggiani_monte	6359.63	Tr 50	71.21	45.00	46.77	46.77	47.09	0.010623	3.15	35.39	58.91	0.99
Cuggiani_monte	6359.63	Tr 100	86.56	45.00	46.88	46.88	47.21	0.010009	3.27	42.38	64.54	0.98
Cuggiani_monte	6359.63	Tr 200	102.24	45.00	46.97	46.97	47.32	0.009866	3.41	48.14	66.97	0.98
Cuggiani_monte	6359.63	Tr 500	123.33	45.00	47.03	47.03	47.45	0.011370	3.78	52.43	68.72	1.06
Cuggiani_monte	6334.62	Tr 50	71.21	44.70	46.31	46.24	46.56	0.008044	2.76	37.69	54.59	0.87
Cuggiani_monte	6334.62	Tr 100	86.56	44.70	46.37	46.32	46.67	0.009307	3.06	41.11	55.64	0.95
Cuggiani_monte	6334.62	Tr 200	102.24	44.70	46.46	46.46	46.79	0.009612	3.23	45.74	57.02	0.97
Cuggiani_monte	6334.62	Tr 500	123.33	44.70	46.50	46.50	46.91	0.013182	3.55	48.57	61.60	1.12
Cuggiani_monte	6309.61	Tr 50	71.21	44.85	46.10	46.10	46.31	0.010941	3.24	45.47	99.01	1.03
Cuggiani_monte	6309.61	Tr 100	86.56	44.85	46.17	46.17	46.40	0.011062	3.41	52.63	105.70	1.05
Cuggiani_monte	6309.61	Tr 200	102.24	44.85	46.23	46.23	46.47	0.011318	3.57	58.93	109.56	1.07
Cuggiani_monte	6309.61	Tr 500	123.33	44.85	46.30	46.30	46.56	0.011322	3.72	67.09	112.44	1.08
Cuggiani_monte	6284.61	Tr 50	71.21	44.55	46.01		46.06	0.001908	1.51	83.22	129.14	0.45
Cuggiani_monte	6284.61	Tr 100	86.56	44.55	46.08		46.15	0.002047	1.63	93.72	134.75	0.47
Cuggiani_monte	6284.61	Tr 200	102.24	44.55	46.17		46.24	0.002097	1.72	104.75	139.05	0.48
Cuggiani_monte	6284.61	Tr 500	123.33	44.55	46.26		46.34	0.002193	1.84	117.99	144.13	0.49
Cuggiani_monte	6259.61	Tr 50	71.21	44.40	46.00		46.03	0.000745	1.06	124.80	156.46	0.29
Cuggiani_monte	6259.61	Tr 100	86.56	44.40	46.08		46.11	0.000854	1.18	137.40	162.75	0.31
Cuggiani_monte	6259.61	Tr 200	102.24	44.40	46.16		46.19	0.000917	1.27	150.69	167.29	0.32
Cuggiani_monte	6259.61	Tr 500	123.33	44.40	46.25		46.29	0.001012	1.38	166.48	173.11	0.34
Cuggiani_monte	6254	Tr 50	71.21	43.70	45.99		46.01	0.000404	0.88	145.76	150.20	0.22
Cuggiani_monte	6254	Tr 100	86.56	43.70	46.07		46.09	0.000477	0.99	157.38	152.19	0.24
Cuggiani_monte	6254	Tr 200	102.24	43.70	46.15		46.17	0.000536	1.08	169.47	154.44	0.25
Cuggiani_monte	6254	Tr 500	123.33	43.70	46.24		46.27	0.000619	1.20	183.57	157.14	0.27
Cuggiani-med1	6246.02	Tr 50	93.12	43.35	45.91	45.30	45.99	0.001084	1.63	109.49	132.82	0.36
Cuggiani-med1	6246.02	Tr 100	112.26	43.35	45.97	45.38	46.07	0.001325	1.84	117.35	135.28	0.40
Cuggiani-med1	6246.02	Tr 200	131.72	43.35	46.04	45.45	46.15	0.001524	2.01	126.02	137.94	0.44
Cuggiani-med1	6246.02	Tr 500	157.81	43.35	46.10	45.73	46.24	0.001828	2.25	135.30	141.11	0.48
Cuggiani-med1	6241.36 SC_0026 Cugg.7	Bridge										
Cuggiani-med1	6232.64	Tr 50	93.12	43.40	45.30	45.30	45.35	0.000935	1.31	111.77	106.74	0.33
Cuggiani-med1	6232.64	Tr 100	112.26	43.40	45.38	45.30	45.44	0.001092	1.47	120.71	109.76	0.36
Cuggiani-med1	6232.64	Tr 200	131.72	43.40	45.51	45.30	45.58	0.001093	1.54	134.86	112.56	0.36
Cuggiani-med1	6232.64	Tr 500	157.81	43.40	45.66	45.30	45.73	0.001118	1.64	151.41	115.25	0.37
Cuggiani-med1	6214.03	Tr 50	93.12	43.05	45.07	44.83	45.25	0.003324	2.52	65.92	84.53	0.62
Cuggiani-med1	6214.03	Tr 100	112.26	43.05	45.21	44.96	45.40	0.003213	2.62	78.14	91.19	0.62
Cuggiani-med1	6214.03	Tr 200	131.72	43.05	45.34	45.06	45.53	0.003091	2.69	90.49	97.18	0.62
Cuggiani-med1	6214.03	Tr 500	157.81	43.05	45.49	45.17	45.69	0.003017	2.79	105.21	102.76	0.62
Cuggiani-med1	6203.48	Tr 50	93.12	43.05	44.79	44.79	45.19	0.006753	3.34	44.04	60.99	0.87
Cuggiani-med1	6203.48	Tr 100	112.26	43.05	44.96	44.96	45.34	0.005815	3.34	56.06	73.70	0.82
Cuggiani-med1	6203.48	Tr 200	131.72	43.05	45.09	45.09	45.47	0.005680	3.46	65.63	80.69	0.82
Cuggiani-med1	6203.48	Tr 500	157.81	43.05	45.19	45.19	45.62	0.006035	3.71	74.42	84.35	0.86
Cuggiani-med1	6176.33	Tr 50	93.12	42.15	44.22	44.22	44.74	0.007490	3.46	33.75	36.06	0.91
Cuggiani-med1	6176.33	Tr 100	112.26	42.15	44.29	44.29	44.97	0.009147	3.95	36.38	38.26	1.01
Cuggiani-med1	6176.33	Tr 200	131.72	42.15	44.67	44.67	45.13	0.005039	3.39	57.54	68.21	0.78
Cuggiani-med1	6176.33	Tr 500	157.81	42.15	44.86	44.86	45.32	0.004668	3.48	71.73	78.42	0.76
Cuggiani-med1	6153.46	Tr 50	93.12	42.00	43.98	43.98	44.50	0.009316	3.74	34.39	35.97	1.00
Cuggiani-med1	6153.46	Tr 100	112.26	42.00	44.15	44.15	44.70	0.008604	3.89	41.31	46.89	0.98
Cuggiani-med1	6153.46	Tr 200	131.72	42.00	44.42	44.42	44.85	0.005927	3.57	58.17	78.14	0.84
Cuggiani-med1	6153.46	Tr 500	157.81	42.00	44.56	44.56	45.01	0.005773	3.71	69.81	81.65	0.84
Cuggiani-med1	6127.86	Tr 50	93.12	41.70	43.98		44.20	0.003283	2.50	51.50	42.82	0.61
Cuggiani-med1	6127.86	Tr 100	112.26	41.70	44.16		44.41	0.003118	2.61	59.79	45.32	0.60
Cuggiani-med1	6127.86	Tr 200	131.72	41.70	44.26		44.55	0.003529	2.87	64.12	47.14	0.65
Cuggiani-med1	6127.86	Tr 500	157.81	41.70	44.33		44.71	0.004368	3.27	67.65	48.57	0.72
Cuggiani-med1	6103.44	Tr 50	93.12	41.10	43.52	43.52	44.05	0.008195	3.65	33.60	31.21	0.93
Cuggiani-med1	6103.44	Tr 100	112.26	41.10	43.67	43.67	44.25	0.008333	3.84	38.75	33.28	0.95
Cuggiani-med1	6103.44	Tr 200	131.72	41.10	43.97	43.97	44.42	0.005754	3.50	56.48	82.06	0.81
Cuggiani-med1	6103.44	Tr 500	157.81	41.10	44.14	44.14	44.58	0.005241	3.55	71.20	84.77	0.78
Cuggiani-med1	6078.94	Tr 50	93.12	40.80	43.42	42.96	43.72	0.003284	2.46	43.62	61.93	0.61
Cuggiani-med1	6078.94	Tr 100	112.26	40.80	43.54	43.13	43.88	0.003646	2.70	51.46	74.52	0.65
Cuggiani-med1	6078.94	Tr 200	131.72	40.80	43.65	43.47	44.03	0.003772	2.87	60.13	75.44	0.67
Cuggiani-med1	6078.94	Tr 500	157.81	40.80	43.81	43.68	44.20	0.003754	3.02	71.82	76.66	0.67

Reach	River Sta	Profile	Q Total (m ³ /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 (m ²)	Top Width (m)	Froude # Chl
Cuggiani-med1	6053.42	Tr 50	93.12	40.50	43.46		43.62	0.001462	1.92	65.02	70.38	0.42
Cuggiani-med1	6053.42	Tr 100	112.26	40.50	43.59		43.78	0.001601	2.09	74.08	70.71	0.45
Cuggiani-med1	6053.42	Tr 200	131.72	40.50	43.70		43.92	0.001724	2.24	82.39	70.90	0.47
Cuggiani-med1	6053.42	Tr 500	157.81	40.50	43.85		44.09	0.001848	2.42	92.86	71.16	0.49
Cuggiani-med1	6027.99	Tr 50	93.12	40.80	43.42		43.57	0.002478	2.25	69.45	71.29	0.52
Cuggiani-med1	6027.99	Tr 100	112.26	40.80	43.56		43.72	0.002487	2.36	79.24	71.87	0.53
Cuggiani-med1	6027.99	Tr 200	131.72	40.80	43.68		43.85	0.002532	2.48	88.04	72.39	0.54
Cuggiani-med1	6027.99	Tr 500	157.81	40.80	43.83		44.02	0.002571	2.62	99.14	73.01	0.55
Cuggiani-med1	6003.4	Tr 50	93.12	40.80	43.39		43.50	0.002211	2.16	74.46	68.98	0.49
Cuggiani-med1	6003.4	Tr 100	112.26	40.80	43.52		43.65	0.002300	2.30	83.75	70.85	0.51
Cuggiani-med1	6003.4	Tr 200	131.72	40.80	43.64		43.78	0.002416	2.44	92.23	72.87	0.53
Cuggiani-med1	6003.4	Tr 500	157.81	40.80	43.79		43.95	0.002526	2.61	103.27	75.43	0.54
Cuggiani-med1	5977.06	Tr 50	93.12	39.90	43.14		43.41	0.004783	2.72	52.81	68.40	0.69
Cuggiani-med1	5977.06	Tr 100	112.26	39.90	43.28		43.55	0.004590	2.82	62.67	72.77	0.68
Cuggiani-med1	5977.06	Tr 200	131.72	39.90	43.39		43.68	0.004647	2.96	71.05	76.65	0.69
Cuggiani-med1	5977.06	Tr 500	157.81	39.90	43.54		43.85	0.004668	3.12	82.49	82.30	0.70
Cuggiani-med1	5953.38	Tr 50	93.12	39.90	43.07		43.29	0.003951	2.63	54.66	57.78	0.62
Cuggiani-med1	5953.38	Tr 100	112.26	39.90	43.19		43.44	0.004275	2.85	61.93	63.28	0.65
Cuggiani-med1	5953.38	Tr 200	131.72	39.90	43.27		43.57	0.004863	3.12	66.97	66.58	0.70
Cuggiani-med1	5953.38	Tr 500	157.81	39.90	43.39		43.73	0.005189	3.35	75.63	71.84	0.73
Cuggiani-med1	5928.97	Tr 50	93.12	39.90	42.80	42.80	43.16	0.006247	3.17	47.54	64.92	0.80
Cuggiani-med1	5928.97	Tr 100	112.26	39.90	42.91	42.91	43.30	0.006572	3.40	54.74	69.79	0.83
Cuggiani-med1	5928.97	Tr 200	131.72	39.90	43.02	43.02	43.42	0.006474	3.51	62.40	71.74	0.83
Cuggiani-med1	5928.97	Tr 500	157.81	39.90	43.11	43.11	43.57	0.007098	3.80	69.18	73.43	0.88
Cuggiani-med1	5903.36	Tr 50	93.12	39.60	42.22	42.22	42.60	0.007770	3.32	43.09	58.48	0.85
Cuggiani-med1	5903.36	Tr 100	112.26	39.60	42.35	42.35	42.74	0.007668	3.44	51.10	68.00	0.86
Cuggiani-med1	5903.36	Tr 200	131.72	39.60	42.45	42.45	42.86	0.007668	3.58	58.30	70.82	0.87
Cuggiani-med1	5903.36	Tr 500	157.81	39.60	42.58	42.58	43.01	0.007728	3.77	67.22	74.17	0.88
Cuggiani-med1	5879.86	Tr 50	93.12	38.70	42.17		42.35	0.003162	2.44	64.53	73.77	0.57
Cuggiani-med1	5879.86	Tr 100	112.26	38.70	42.30		42.49	0.003151	2.55	74.77	77.27	0.57
Cuggiani-med1	5879.86	Tr 200	131.72	38.70	42.43		42.62	0.003134	2.64	84.31	78.70	0.58
Cuggiani-med1	5879.86	Tr 500	157.81	38.70	42.58		42.78	0.003110	2.75	96.36	80.47	0.58
Cuggiani-med1	5853.34	Tr 50	93.12	39.00	42.14		42.27	0.001977	2.28	77.42	77.02	0.47
Cuggiani-med1	5853.34	Tr 100	112.26	39.00	42.27		42.42	0.002059	2.41	87.87	79.57	0.49
Cuggiani-med1	5853.34	Tr 200	131.72	39.00	42.39		42.55	0.002132	2.53	97.53	81.27	0.50
Cuggiani-med1	5853.34	Tr 500	157.81	39.00	42.54		42.71	0.002196	2.67	109.86	83.15	0.51
Cuggiani-med1	5826.95	Tr 50	93.12	38.70	42.10		42.20	0.002562	2.04	77.26	83.07	0.48
Cuggiani-med1	5826.95	Tr 100	112.26	38.70	42.23		42.35	0.002544	2.14	88.66	86.39	0.49
Cuggiani-med1	5826.95	Tr 200	131.72	38.70	42.35		42.47	0.002532	2.22	99.27	88.46	0.49
Cuggiani-med1	5826.95	Tr 500	157.81	38.70	42.50		42.63	0.002468	2.30	112.85	89.48	0.49
Cuggiani-med1	5803.32	Tr 50	93.12	38.70	42.08		42.17	0.000752	1.55	91.59	65.65	0.31
Cuggiani-med1	5803.32	Tr 100	112.26	38.70	42.21		42.31	0.000868	1.72	99.86	66.40	0.33
Cuggiani-med1	5803.32	Tr 200	131.72	38.70	42.32		42.44	0.000984	1.88	107.34	69.62	0.36
Cuggiani-med1	5803.32	Tr 500	157.81	38.70	42.45		42.60	0.001129	2.08	116.93	72.22	0.39
Cuggiani-med1	5775.77	Tr 50	93.12	39.00	41.69	41.69	42.09	0.005312	3.31	47.35	65.25	0.76
Cuggiani-med1	5775.77	Tr 100	112.26	39.00	41.85	41.85	42.23	0.004896	3.35	58.43	70.46	0.74
Cuggiani-med1	5775.77	Tr 200	131.72	39.00	41.95	41.95	42.36	0.005119	3.54	65.43	72.16	0.77
Cuggiani-med1	5775.77	Tr 500	157.81	39.00	42.07	42.07	42.51	0.005427	3.77	73.86	74.08	0.80
Cuggiani-med1	5753.3	Tr 50	93.12	38.70	41.29	41.29	41.67	0.006159	3.23	45.32	62.28	0.81
Cuggiani-med1	5753.3	Tr 100	112.26	38.70	41.40	41.40	41.81	0.006396	3.44	52.38	66.11	0.83
Cuggiani-med1	5753.3	Tr 200	131.72	38.70	41.52	41.52	41.94	0.006131	3.53	60.91	69.86	0.83
Cuggiani-med1	5753.3	Tr 500	157.81	38.70	41.61	41.61	42.10	0.006901	3.86	67.27	72.53	0.88
Cuggiani-med1	5729.86	Tr 50	93.12	38.10	41.01	41.01	41.36	0.005267	3.01	48.36	69.09	0.74
Cuggiani-med1	5729.86	Tr 100	112.26	38.10	41.09	41.09	41.49	0.006059	3.28	54.00	71.11	0.80
Cuggiani-med1	5729.86	Tr 200	131.72	38.10	41.24	41.24	41.63	0.005479	3.29	66.22	83.33	0.77
Cuggiani-med1	5729.86	Tr 500	157.81	38.10	41.36	41.36	41.77	0.005637	3.48	76.11	86.91	0.79
Cuggiani-med1	5703.28	Tr 50	93.12	38.10	40.70	40.70	41.02	0.006267	2.98	48.40	71.92	0.80
Cuggiani-med1	5703.28	Tr 100	112.26	38.10	40.76	40.76	41.15	0.007332	3.29	53.31	74.59	0.87
Cuggiani-med1	5703.28	Tr 200	131.72	38.10	40.89	40.89	41.27	0.006987	3.37	62.89	81.83	0.86
Cuggiani-med1	5703.28	Tr 500	157.81	38.10	41.00	41.00	41.41	0.007038	3.55	72.79	86.73	0.87
Cuggiani-med1	5679.7	Tr 50	93.12	37.80	40.35	40.35	40.65	0.005668	3.00	53.25	78.83	0.76
Cuggiani-med1	5679.7	Tr 100	112.26	37.80	40.43	40.43	40.76	0.006200	3.22	59.96	81.40	0.80
Cuggiani-med1	5679.7	Tr 200	131.72	37.80	40.50	40.50	40.87	0.006816	3.45	65.72	83.54	0.84
Cuggiani-med1	5679.7	Tr 500	157.81	37.80	40.60	40.60	41.00	0.007113	3.67	74.32	86.46	0.87
Cuggiani-med1	5653.26	Tr 50	93.12	37.20	39.97		40.13	0.002828	2.29	69.99	80.33	0.55
Cuggiani-med1	5653.26	Tr 100	112.26	37.20	40.11		40.27	0.002850	2.41	81.22	86.61	0.56
Cuggiani-med1	5653.26	Tr 200	131.72	37.20	40.22		40.40	0.003013	2.57	91.50	95.48	0.58
Cuggiani-med1	5653.26	Tr 500	157.81	37.20	40.39		40.57	0.002718	2.58	107.79	97.26	0.56
Cuggiani-med1	5630.84	Tr 50	93.12	37.50	39.95		40.04	0.003020	2.02	78.78	96.23	0.53
Cuggiani-med1	5630.84	Tr 100	112.26	37.50	40.09		40.19	0.002649	1.96	93.11	97.19	0.51
Cuggiani-med1	5630.84	Tr 200	131.72	37.50	40.22		40.32	0.002489	1.98	105.27	98.03	0.50
Cuggiani-med1	5630.84	Tr 500	157.81	37.50	40.39		40.49	0.002249	2.01	121.82	99.34	0.48
Cuggiani-med1	5603.24	Tr 50	93.12	37.50	39.80		39.95	0.003136	2.38	71.36	95.16	0.57
Cuggiani-med1	5603.24	Tr 100	112.26	37.50	39.95		40.11	0.002963	2.45	86.65	107.53	0.57
Cuggiani-med1	5603.24	Tr 200	131.72	37.50	40.10		40.24	0.002677	2.44	102.50	114.25	0.54
Cuggiani-med1	5603.24	Tr 500	157.81	37.50	40.30		40.42	0.002191	2.35	126.18	119.83	0.50

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
Cuggiani-med1	5576.34	Tr 50	93.12	36.60	39.79		39.90	0.001052	1.72	85.73	80.55	0.36
Cuggiani-med1	5576.34	Tr 100	112.26	36.60	39.92		40.05	0.001200	1.90	96.94	92.83	0.39
Cuggiani-med1	5576.34	Tr 200	131.72	36.60	40.05		40.19	0.001230	2.00	109.60	96.91	0.40
Cuggiani-med1	5576.34	Tr 500	157.81	36.60	40.23		40.38	0.001270	2.12	127.07	102.63	0.41
Cuggiani-med1	5553.22	Tr 50	93.12	36.60	39.66		39.85	0.001829	2.25	63.90	63.78	0.47
Cuggiani-med1	5553.22	Tr 100	112.26	36.60	39.76		40.00	0.002128	2.50	70.97	67.82	0.51
Cuggiani-med1	5553.22	Tr 200	131.72	36.60	39.86		40.14	0.002413	2.73	77.69	71.45	0.55
Cuggiani-med1	5553.22	Tr 500	157.81	36.60	39.96		40.31	0.002938	3.10	85.79	82.57	0.61
Cuggiani-med1	5529.69	Tr 50	93.12	36.90	39.62		39.81	0.001946	2.20	67.90	80.44	0.49
Cuggiani-med1	5529.69	Tr 100	112.26	36.90	39.74		39.94	0.002087	2.36	77.32	81.20	0.51
Cuggiani-med1	5529.69	Tr 200	131.72	36.90	39.84		40.07	0.002227	2.51	85.81	81.88	0.53
Cuggiani-med1	5529.69	Tr 500	157.81	36.90	39.98		40.22	0.002346	2.68	96.86	82.66	0.55
Cuggiani-med1	5503.2	Tr 50	93.12	36.30	39.37	39.37	39.72	0.004336	2.94	50.76	74.39	0.69
Cuggiani-med1	5503.2	Tr 100	112.26	36.30	39.47	39.47	39.85	0.004633	3.15	58.20	74.84	0.72
Cuggiani-med1	5503.2	Tr 200	131.72	36.30	39.57	39.57	39.96	0.004805	3.31	65.51	75.29	0.74
Cuggiani-med1	5503.2	Tr 500	157.81	36.30	39.67	39.67	40.11	0.005269	3.58	72.93	75.68	0.78
Cuggiani-med1	5477.36	Tr 50	93.12	35.70	39.22		39.49	0.002311	2.59	55.29	57.36	0.51
Cuggiani-med1	5477.36	Tr 100	112.26	35.70	39.31	39.02	39.67	0.002870	2.96	61.14	67.46	0.58
Cuggiani-med1	5477.36	Tr 200	131.72	35.70	39.41	39.18	39.80	0.003161	3.18	67.90	68.46	0.61
Cuggiani-med1	5477.36	Tr 500	157.81	35.70	39.52	39.47	39.97	0.003597	3.48	75.33	69.54	0.65
Cuggiani-med1	5453.18	Tr 50	93.12	36.00	39.06	38.93	39.41	0.004384	3.00	51.15	74.26	0.69
Cuggiani-med1	5453.18	Tr 100	112.26	36.00	39.31		39.56	0.003059	2.72	69.84	75.62	0.59
Cuggiani-med1	5453.18	Tr 200	131.72	36.00	39.42		39.69	0.003123	2.84	78.43	76.00	0.60
Cuggiani-med1	5453.18	Tr 500	157.81	36.00	39.54		39.83	0.003346	3.04	87.52	76.40	0.63
Cuggiani-med1	5428.21	Tr 50	93.12	35.70	38.85	38.85	39.27	0.005488	3.34	44.67	57.15	0.76
Cuggiani-med1	5428.21	Tr 100	112.26	35.70	38.95	38.95	39.43	0.006055	3.64	50.96	61.83	0.81
Cuggiani-med1	5428.21	Tr 200	131.72	35.70	39.19	39.19	39.58	0.004655	3.43	69.09	80.68	0.72
Cuggiani-med1	5428.21	Tr 500	157.81	35.70	39.30	39.30	39.72	0.004959	3.65	78.04	82.02	0.75
Cuggiani-med1	5403.16	Tr 50	93.12	36.00	38.40	38.34	38.76	0.005678	3.17	47.12	62.46	0.79
Cuggiani-med1	5403.16	Tr 100	112.26	36.00	38.64		38.93	0.004002	2.92	62.59	65.34	0.68
Cuggiani-med1	5403.16	Tr 200	131.72	36.00	38.80		39.08	0.003646	2.95	73.23	67.73	0.66
Cuggiani-med1	5403.16	Tr 500	157.81	36.00	38.99		39.27	0.003383	3.01	86.32	70.85	0.64
Cuggiani-med1	5379.99	Tr 50	93.12	35.40	38.35		38.65	0.003153	2.83	51.24	49.99	0.60
Cuggiani-med1	5379.99	Tr 100	112.26	35.40	38.42	38.26	38.82	0.004103	3.29	54.71	57.43	0.69
Cuggiani-med1	5379.99	Tr 200	131.72	35.40	38.50	38.32	38.96	0.004672	3.59	59.55	59.02	0.74
Cuggiani-med1	5379.99	Tr 500	157.81	35.40	38.62	38.58	39.15	0.005143	3.89	66.84	61.33	0.78
Cuggiani-med1	5353.14	Tr 50	93.12	35.40	38.17	38.17	38.51	0.009706	3.38	43.23	57.64	0.92
Cuggiani-med1	5353.14	Tr 100	112.26	35.40	38.30	38.30	38.64	0.009139	3.42	51.20	61.60	0.91
Cuggiani-med1	5353.14	Tr 200	131.72	35.40	38.43		38.75	0.008844	3.28	59.78	66.61	0.90
Cuggiani-med1	5353.14	Tr 500	157.81	35.40	38.59		38.91	0.008007	3.35	70.03	68.71	0.87
Cuggiani-med1	5330.79	Tr 50	93.12	34.80	38.17		38.33	0.002486	2.21	65.91	64.55	0.51
Cuggiani-med1	5330.79	Tr 100	112.26	34.80	38.29		38.47	0.002685	2.39	74.23	69.45	0.53
Cuggiani-med1	5330.79	Tr 200	131.72	34.80	38.41		38.61	0.002807	2.54	82.85	73.72	0.55
Cuggiani-med1	5330.79	Tr 500	157.81	34.80	38.56		38.78	0.002862	2.68	93.89	74.83	0.56
Cuggiani-med1	5303.12	Tr 50	93.12	34.80	38.16		38.27	0.001242	1.78	78.58	69.03	0.38
Cuggiani-med1	5303.12	Tr 100	112.26	34.80	38.28		38.41	0.001399	1.96	87.04	69.90	0.40
Cuggiani-med1	5303.12	Tr 200	131.72	34.80	38.39		38.54	0.001528	2.11	95.23	70.73	0.42
Cuggiani-med1	5303.12	Tr 500	157.81	34.80	38.53		38.71	0.001686	2.30	105.22	71.69	0.45
Cuggiani-med1	5278.9	Tr 50	93.12	34.80	37.84	37.84	38.18	0.005746	3.30	48.56	60.75	0.76
Cuggiani-med1	5278.9	Tr 100	112.26	34.80	37.93	37.93	38.32	0.006187	3.53	54.47	61.26	0.79
Cuggiani-med1	5278.9	Tr 200	131.72	34.80	38.01	38.01	38.44	0.006736	3.79	59.45	61.69	0.83
Cuggiani-med1	5278.9	Tr 500	157.81	34.80	38.12	38.12	38.60	0.007171	4.04	66.35	62.58	0.87
Cuggiani-med1	5253.1	Tr 50	93.12	34.50	37.46	37.42	37.76	0.005430	3.05	51.39	69.24	0.72
Cuggiani-med1	5253.1	Tr 100	112.26	34.50	37.58	37.53	37.89	0.005487	3.19	59.43	71.40	0.73
Cuggiani-med1	5253.1	Tr 200	131.72	34.50	37.68		38.01	0.005488	3.31	67.08	72.11	0.74
Cuggiani-med1	5253.1	Tr 500	157.81	34.50	37.82		38.16	0.005382	3.42	77.13	73.01	0.74
Cuggiani-med1	5228.67	Tr 50	93.12	34.50	37.38		37.59	0.005487	2.60	53.29	67.48	0.71
Cuggiani-med1	5228.67	Tr 100	112.26	34.50	37.48		37.72	0.005658	2.77	60.34	69.84	0.73
Cuggiani-med1	5228.67	Tr 200	131.72	34.50	37.58		37.84	0.005742	2.92	67.27	71.01	0.75
Cuggiani-med1	5228.67	Tr 500	157.81	34.50	37.72		38.00	0.005621	3.05	76.92	72.29	0.75
Cuggiani-med1	5203.08	Tr 50	93.12	34.50	37.08	37.08	37.42	0.008227	3.55	46.15	60.14	0.87
Cuggiani-med1	5203.08	Tr 100	112.26	34.50	37.19	37.19	37.55	0.008242	3.70	52.61	60.85	0.88
Cuggiani-med1	5203.08	Tr 200	131.72	34.50	37.28	37.28	37.66	0.008436	3.87	58.90	70.34	0.90
Cuggiani-med1	5203.08	Tr 500	157.81	34.50	37.36	37.36	37.81	0.009348	4.19	64.88	71.39	0.95
Cuggiani-med1	5179.68	Tr 50	93.12	34.20	36.79	36.79	37.13	0.012041	3.39	41.08	58.00	1.01
Cuggiani-med1	5179.68	Tr 100	112.26	34.20	36.87	36.87	37.26	0.012665	3.61	45.96	59.14	1.04
Cuggiani-med1	5179.68	Tr 200	131.72	34.20	36.99	36.99	37.38	0.011524	3.63	53.70	68.67	1.01
Cuggiani-med1	5179.68	Tr 500	157.81	34.20	37.10	37.10	37.52	0.011402	3.77	61.63	71.69	1.01
Cuggiani-med1	5153.06	Tr 50	93.12	34.20	36.61		36.83	0.003073	2.50	57.80	71.68	0.59
Cuggiani-med1	5153.06	Tr 100	112.26	34.20	36.75		36.98	0.003087	2.63	67.64	74.84	0.60
Cuggiani-med1	5153.06	Tr 200	131.72	34.20	36.87		37.12	0.003095	2.74	77.02	77.74	0.61
Cuggiani-med1	5153.06	Tr 500	157.81	34.20	37.03		37.29	0.002996	2.84	90.05	80.29	0.61
Cuggiani-med1	5130.41	Tr 50	93.12	33.60	36.60		36.75	0.002405	2.21	71.68	85.50	0.51
Cuggiani-med1	5130.41	Tr 100	112.26	33.60	36.74		36.89	0.002344	2.29	83.92	87.16	0.51
Cuggiani-med1	5130.41	Tr 200	131.72	33.60	36.87		37.02	0.002313	2.37	95.20	88.67	0.51
Cuggiani-med1	5130.41	Tr 500	157.81	33.60	37.04		37.20	0.002231	2.44	110.13	90.50	0.50

HEC-RAS Plan: Art_8_comma 2 (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
Cuggiani-med1	5103.04	Tr 50	93.12	34.50	36.24	36.24	36.61	0.009430	3.42	40.46	55.91	0.98
Cuggiani-med1	5103.04	Tr 100	112.26	34.50	36.34	36.34	36.75	0.009566	3.63	46.33	56.52	1.00
Cuggiani-med1	5103.04	Tr 200	131.72	34.50	36.45	36.45	36.89	0.009302	3.77	52.52	56.86	1.00
Cuggiani-med1	5103.04	Tr 500	157.81	34.50	36.56	36.56	37.05	0.009740	4.05	58.68	57.20	1.03
Cuggiani-med1	5078.87	Tr 50	93.12	33.90	35.73	35.73	36.13	0.013618	3.70	35.83	40.24	1.11
Cuggiani-med1	5078.87	Tr 100	112.26	33.90	35.83	35.83	36.29	0.014331	3.89	39.96	41.05	1.15
Cuggiani-med1	5078.87	Tr 200	131.72	33.90	36.02	36.02	36.42	0.013621	3.39	48.14	65.63	1.10
Cuggiani-med1	5078.87	Tr 500	157.81	33.90	36.11	36.11	36.59	0.014643	3.72	53.96	67.08	1.16
Cuggiani-med1	5053.02	Tr 50	93.12	33.30	35.67		35.81	0.004122	2.06	58.99	57.76	0.62
Cuggiani-med1	5053.02	Tr 100	112.26	33.30	35.79		35.95	0.004391	2.09	66.60	66.09	0.64
Cuggiani-med1	5053.02	Tr 200	131.72	33.30	35.90		36.08	0.004432	2.23	73.98	71.05	0.65
Cuggiani-med1	5053.02	Tr 500	157.81	33.30	36.04		36.24	0.004456	2.40	83.87	76.29	0.66
Cuggiani-med1	5029.98	Tr 50	93.12	33.60	35.59		35.71	0.004349	1.78	62.11	63.52	0.60
Cuggiani-med1	5029.98	Tr 100	112.26	33.60	35.71		35.84	0.004384	1.93	69.44	64.37	0.61
Cuggiani-med1	5029.98	Tr 200	131.72	33.60	35.81		35.97	0.004421	2.08	76.54	67.30	0.63
Cuggiani-med1	5029.98	Tr 500	157.81	33.60	35.95		36.13	0.004469	2.25	85.73	70.91	0.64
Cuggiani-med1	5003	Tr 50	93.12	33.60	35.47		35.59	0.004290	1.91	62.18	62.10	0.59
Cuggiani-med1	5003	Tr 100	112.26	33.60	35.59		35.72	0.004463	2.00	69.20	62.99	0.61
Cuggiani-med1	5003	Tr 200	131.72	33.60	35.69		35.85	0.004605	2.09	75.90	63.83	0.63
Cuggiani-med1	5003	Tr 500	157.81	33.60	35.82		36.00	0.004784	2.19	84.23	64.95	0.64
Cuggiani-med1	4977.07	Tr 50	93.12	33.90	35.38		35.48	0.003835	1.69	65.67	64.12	0.55
Cuggiani-med1	4977.07	Tr 100	112.26	33.90	35.49		35.61	0.004023	1.83	72.55	64.35	0.57
Cuggiani-med1	4977.07	Tr 200	131.72	33.90	35.59		35.73	0.004179	1.96	79.08	64.57	0.59
Cuggiani-med1	4977.07	Tr 500	157.81	33.90	35.71		35.88	0.004384	2.11	87.07	64.86	0.61
Cuggiani-med1	4952.98	Tr 50	93.12	33.60	35.25		35.38	0.004788	2.10	59.60	60.84	0.65
Cuggiani-med1	4952.98	Tr 100	112.26	33.60	35.34		35.50	0.005205	2.25	65.28	61.31	0.68
Cuggiani-med1	4952.98	Tr 200	131.72	33.60	35.43		35.61	0.005540	2.41	70.94	69.47	0.71
Cuggiani-med1	4952.98	Tr 500	157.81	33.60	35.54		35.75	0.005902	2.64	78.47	70.39	0.74
Cuggiani-med1	4929.03	Tr 50	93.12	33.30	35.23		35.29	0.001683	1.44	90.29	83.97	0.41
Cuggiani-med1	4929.03	Tr 100	112.26	33.30	35.33		35.40	0.001868	1.60	98.34	84.67	0.44
Cuggiani-med1	4929.03	Tr 200	131.72	33.30	35.42		35.51	0.002019	1.73	106.17	85.32	0.46
Cuggiani-med1	4929.03	Tr 500	157.81	33.30	35.53		35.64	0.002199	1.90	115.87	85.99	0.49
Cuggiani-med1	4902.96	Tr 50	93.12	33.30	35.20		35.25	0.001286	1.44	95.86	83.11	0.38
Cuggiani-med1	4902.96	Tr 100	112.26	33.30	35.29		35.36	0.001477	1.60	103.38	83.56	0.41
Cuggiani-med1	4902.96	Tr 200	131.72	33.30	35.37		35.46	0.001641	1.75	110.72	84.00	0.43
Cuggiani-med1	4902.96	Tr 500	157.81	33.30	35.48		35.58	0.001841	1.93	119.78	84.49	0.46
Cuggiani-med1	4877.64	Tr 50	93.12	33.00	35.17		35.22	0.001204	1.38	98.93	84.63	0.36
Cuggiani-med1	4877.64	Tr 100	112.26	33.00	35.25		35.32	0.001403	1.55	106.19	85.12	0.40
Cuggiani-med1	4877.64	Tr 200	131.72	33.00	35.34		35.42	0.001578	1.70	113.30	85.59	0.42
Cuggiani-med1	4877.64	Tr 500	157.81	33.00	35.44		35.54	0.001792	1.88	122.10	86.12	0.46
Cuggiani-med1	4852.94	Tr 50	93.12	32.70	35.14		35.19	0.000921	1.41	108.43	87.11	0.33
Cuggiani-med1	4852.94	Tr 100	112.26	32.70	35.23		35.29	0.001099	1.59	115.53	87.47	0.36
Cuggiani-med1	4852.94	Tr 200	131.72	32.70	35.31		35.38	0.001260	1.75	122.51	87.82	0.39
Cuggiani-med1	4852.94	Tr 500	157.81	32.70	35.40		35.50	0.001463	1.94	131.11	88.25	0.42
Cuggiani-med1	4828.81	Tr 50	93.12	32.40	35.14		35.17	0.000541	1.25	129.49	91.37	0.26
Cuggiani-med1	4828.81	Tr 100	112.26	32.40	35.22		35.26	0.000664	1.42	136.78	91.66	0.29
Cuggiani-med1	4828.81	Tr 200	131.72	32.40	35.29		35.35	0.000780	1.57	143.96	91.96	0.32
Cuggiani-med1	4828.81	Tr 500	157.81	32.40	35.39		35.46	0.000931	1.76	152.79	92.31	0.35
Cuggiani-med1	4802.92	Tr 50	93.12	32.70	35.12		35.16	0.000535	1.18	131.33	92.74	0.26
Cuggiani-med1	4802.92	Tr 100	112.26	32.70	35.20		35.24	0.000658	1.34	138.46	92.95	0.29
Cuggiani-med1	4802.92	Tr 200	131.72	32.70	35.28		35.33	0.000776	1.49	145.48	93.16	0.32
Cuggiani-med1	4802.92	Tr 500	157.81	32.70	35.37		35.44	0.000929	1.67	154.08	93.42	0.35
Cuggiani-med1	4779.46	Tr 50	93.12	32.40	35.11		35.15	0.000439	1.09	135.09	89.68	0.24
Cuggiani-med1	4779.46	Tr 100	112.26	32.40	35.19		35.23	0.000550	1.24	141.73	89.95	0.26
Cuggiani-med1	4779.46	Tr 200	131.72	32.40	35.26		35.31	0.000659	1.39	148.26	90.22	0.29
Cuggiani-med1	4779.46	Tr 500	157.81	32.40	35.35		35.42	0.000804	1.57	156.23	90.54	0.32
Cuggiani-med1	4752.9	Tr 50	93.12	31.50	35.11		35.14	0.000287	1.03	146.18	84.20	0.20
Cuggiani-med1	4752.9	Tr 100	112.26	31.50	35.18		35.22	0.000370	1.20	152.19	84.55	0.22
Cuggiani-med1	4752.9	Tr 200	131.72	31.50	35.25		35.30	0.000455	1.35	158.09	84.89	0.25
Cuggiani-med1	4752.9	Tr 500	157.81	31.50	35.33		35.40	0.000573	1.54	165.23	85.31	0.28
Cuggiani-med1	4730.42	Tr 50	93.12	32.10	35.10		35.13	0.000349	1.06	139.93	85.93	0.21
Cuggiani-med1	4730.42	Tr 100	112.26	32.10	35.17		35.21	0.000452	1.23	145.85	87.21	0.25
Cuggiani-med1	4730.42	Tr 200	131.72	32.10	35.23		35.29	0.000558	1.39	151.70	88.49	0.27
Cuggiani-med1	4730.42	Tr 500	157.81	32.10	35.31		35.38	0.000706	1.60	158.79	90.01	0.31
Cuggiani-med1	4717.3	Tr 50	93.12	31.50	35.10		35.12	0.000268	0.95	159.24	94.21	0.18
Cuggiani-med1	4717.3	Tr 100	112.26	31.50	35.17		35.20	0.000349	1.11	165.79	95.82	0.21
Cuggiani-med1	4717.3	Tr 200	131.72	31.50	35.23		35.28	0.000433	1.25	172.29	97.41	0.24
Cuggiani-med1	4717.3	Tr 500	157.81	31.50	35.32		35.37	0.000549	1.44	180.22	99.31	0.27
Cuggiani-med1	4703.26	Tr 50	93.12	31.50	35.10	34.33	35.12	0.000239	0.95	186.97	135.61	0.18
Cuggiani-med1	4703.26	Tr 100	112.26	31.50	35.17	34.50	35.19	0.000303	1.09	196.40	136.94	0.20
Cuggiani-med1	4703.26	Tr 200	131.72	31.50	35.23	34.50	35.27	0.000366	1.21	205.73	138.21	0.22
Cuggiani-med1	4703.26	Tr 500	157.81	31.50	35.32	34.50	35.36	0.000452	1.37	217.08	139.75	0.25
Cuggiani-med1	4692.85 Cuggiani 8	Bridge										
Cuggiani-med1	4678.04	Tr 50	93.12	31.80	34.50	34.50	34.54	0.000988	1.34	121.10	115.29	0.32
Cuggiani-med1	4678.04	Tr 100	112.26	31.80	34.50	34.50	34.56	0.001436	1.61	121.10	115.29	0.38
Cuggiani-med1	4678.04	Tr 200	131.72	31.80	34.50	34.50	34.58	0.001977	1.89	121.10	115.29	0.45

Reach	River Sta	Profile	Q Total (m ³ /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 (m ²)	Top Width (m)	Froude # Chl
Cuggiani-med1	4678.04	Tr 500	157.81	31.80	34.50	34.50	34.61	0.002837	2.26	121.10	115.29	0.54
Cuggiani-med1	4652.95	Tr 50	93.12	30.90	33.99		34.09	0.002160	2.08	87.34	106.10	0.46
Cuggiani-med1	4652.95	Tr 100	112.26	30.90	34.11		34.22	0.002203	2.15	100.70	112.40	0.47
Cuggiani-med1	4652.95	Tr 200	131.72	30.90	34.21		34.32	0.002327	2.26	111.78	117.15	0.48
Cuggiani-med1	4652.95	Tr 500	157.81	30.90	34.32		34.44	0.002442	2.36	125.22	119.94	0.50
Cuggiani-med1	4628.07	Tr 50	93.12	30.90	33.67	33.67	33.99	0.005173	3.00	54.43	90.07	0.73
Cuggiani-med1	4628.07	Tr 100	112.26	30.90	33.76	33.76	34.11	0.005549	3.22	63.00	97.86	0.76
Cuggiani-med1	4628.07	Tr 200	131.72	30.90	33.88	33.88	34.22	0.005223	3.25	75.31	108.07	0.74
Cuggiani-med1	4628.07	Tr 500	157.81	30.90	33.99	33.99	34.34	0.005358	3.41	86.98	114.07	0.76
Cuggiani-med2	4602.84	Tr 50	93.12	30.60	33.68	33.68	33.96	0.005203	2.98	58.46	107.28	0.72
Cuggiani-med2	4602.84	Tr 100	112.26	30.60	33.76	33.76	34.06	0.005602	3.18	67.25	112.32	0.75
Cuggiani-med2	4602.84	Tr 200	131.72	30.60	33.86	33.86	34.16	0.005467	3.25	78.41	118.42	0.75
Cuggiani-med2	4602.84	Tr 500	157.81	30.60	33.92	33.92	34.27	0.006442	3.60	85.43	122.21	0.81
Cuggiani-med2	4578.57	Tr 50	93.12	30.90	33.25	33.25	33.60	0.007077	3.23	46.53	76.29	0.83
Cuggiani-med2	4578.57	Tr 100	112.26	30.90	33.39	33.39	33.72	0.006506	3.27	57.03	81.44	0.80
Cuggiani-med2	4578.57	Tr 200	131.72	30.90	33.46	33.46	33.84	0.007062	3.51	63.25	85.22	0.84
Cuggiani-med2	4578.57	Tr 500	157.81	30.90	33.52	33.52	33.98	0.008491	3.93	68.26	88.14	0.93
Cuggiani-med2	4552.82	Tr 50	93.12	29.70	32.77	32.77	33.08	0.006739	3.17	49.55	76.28	0.77
Cuggiani-med2	4552.82	Tr 100	112.26	29.70	32.88	32.88	33.20	0.006827	3.30	57.80	79.51	0.78
Cuggiani-med2	4552.82	Tr 200	131.72	29.70	32.96	32.96	33.31	0.007354	3.50	63.95	81.83	0.81
Cuggiani-med2	4552.82	Tr 500	157.81	29.70	33.05	33.05	33.44	0.007977	3.74	72.19	89.67	0.85
Cuggiani-med2	4525.89	Tr 50	93.12	30.30	32.40	32.40	32.64	0.009065	2.98	54.94	100.31	0.92
Cuggiani-med2	4525.89	Tr 100	112.26	30.30	32.47	32.47	32.73	0.009525	3.18	61.56	101.56	0.95
Cuggiani-med2	4525.89	Tr 200	131.72	30.30	32.53	32.53	32.82	0.009878	3.36	67.91	102.75	0.98
Cuggiani-med2	4525.89	Tr 500	157.81	30.30	32.60	32.60	32.93	0.010327	3.57	75.70	104.18	1.01
Cuggiani-med2	4502.8	Tr 50	93.12	30.60	32.20		32.37	0.007950	2.65	61.97	116.75	0.86
Cuggiani-med2	4502.8	Tr 100	112.26	30.60	32.29		32.46	0.007562	2.71	71.79	118.71	0.85
Cuggiani-med2	4502.8	Tr 200	131.72	30.60	32.37		32.55	0.007080	2.73	81.92	120.70	0.83
Cuggiani-med2	4502.8	Tr 500	157.81	30.60	32.48		32.66	0.006395	2.72	95.69	122.52	0.79
Cuggiani-med2	4478.85	Tr 50	93.12	29.70	31.97	31.96	32.21	0.005143	2.71	60.88	106.38	0.73
Cuggiani-med2	4478.85	Tr 100	112.26	29.70	32.07		32.31	0.004853	2.76	71.92	107.35	0.72
Cuggiani-med2	4478.85	Tr 200	131.72	29.70	32.18		32.40	0.004497	2.78	83.34	108.81	0.70
Cuggiani-med2	4478.85	Tr 500	157.81	29.70	32.29		32.53	0.004381	2.87	95.93	110.59	0.70
Cuggiani-med2	4452.78	Tr 50	93.12	29.70	31.92		32.07	0.003329	2.31	71.76	92.53	0.59
Cuggiani-med2	4452.78	Tr 100	112.26	29.70	32.02		32.18	0.003381	2.43	81.11	92.90	0.60
Cuggiani-med2	4452.78	Tr 200	131.72	29.70	32.11		32.28	0.003539	2.57	89.61	95.65	0.62
Cuggiani-med2	4452.78	Tr 500	157.81	29.70	32.22		32.41	0.003722	2.74	99.61	96.62	0.64
Cuggiani-med2	4427	Tr 50	93.12	29.70	31.66	31.66	31.93	0.007952	3.35	53.19	84.12	0.89
Cuggiani-med2	4427	Tr 100	112.26	29.70	31.73	31.73	32.03	0.008701	3.62	58.90	85.29	0.93
Cuggiani-med2	4427	Tr 200	131.72	29.70	31.79	31.79	32.13	0.009484	3.87	63.99	86.33	0.98
Cuggiani-med2	4427	Tr 500	157.81	29.70	31.90	31.90	32.25	0.009194	3.99	73.56	88.22	0.98
Cuggiani-med2	4402.76	Tr 50	93.12	29.10	31.54		31.70	0.004978	2.57	63.34	85.08	0.66
Cuggiani-med2	4402.76	Tr 100	112.26	29.10	31.63		31.81	0.005336	2.73	70.64	86.89	0.69
Cuggiani-med2	4402.76	Tr 200	131.72	29.10	31.70		31.90	0.005874	2.91	76.48	88.30	0.72
Cuggiani-med2	4402.76	Tr 500	157.81	29.10	31.78		32.01	0.006386	3.10	84.35	90.18	0.76
Cuggiani-med2	4379.15	Tr 50	93.12	28.80	31.28	31.28	31.53	0.010690	3.40	51.23	87.73	0.89
Cuggiani-med2	4379.15	Tr 100	112.26	28.80	31.35	31.34	31.62	0.011285	3.54	57.36	88.84	0.92
Cuggiani-med2	4379.15	Tr 200	131.72	28.80	31.43	31.40	31.71	0.010879	3.55	64.91	90.20	0.91
Cuggiani-med2	4379.15	Tr 500	157.81	28.80	31.53		31.82	0.010661	3.57	73.95	91.66	0.91
Cuggiani-med2	4352.74	Tr 50	93.12	29.10	31.16		31.28	0.005192	2.16	67.72	102.58	0.63
Cuggiani-med2	4352.74	Tr 100	112.26	29.10	31.24		31.37	0.005452	2.29	75.98	104.33	0.65
Cuggiani-med2	4352.74	Tr 200	131.72	29.10	31.32		31.46	0.005676	2.43	83.78	106.27	0.67
Cuggiani-med2	4352.74	Tr 500	157.81	29.10	31.41		31.57	0.005970	2.60	93.33	108.59	0.70
Cuggiani-med2	4328.74	Tr 50	93.12	29.10	30.98		31.12	0.007867	2.62	62.21	107.20	0.77
Cuggiani-med2	4328.74	Tr 100	112.26	29.10	31.06		31.22	0.007703	2.69	71.46	110.25	0.77
Cuggiani-med2	4328.74	Tr 200	131.72	29.10	31.14		31.31	0.007577	2.76	80.34	113.11	0.77
Cuggiani-med2	4328.74	Tr 500	157.81	29.10	31.24		31.42	0.007469	2.84	91.47	116.34	0.77
Cuggiani-med2	4302.72	Tr 50	93.12	29.10	30.86		30.96	0.004348	2.21	75.98	112.19	0.63
Cuggiani-med2	4302.72	Tr 100	112.26	29.10	30.94		31.05	0.004561	2.36	84.96	114.49	0.65
Cuggiani-med2	4302.72	Tr 200	131.72	29.10	31.02		31.14	0.004754	2.50	93.58	117.18	0.67
Cuggiani-med2	4302.72	Tr 500	157.81	29.10	31.11		31.25	0.004978	2.67	104.41	120.46	0.70
Cuggiani-med2	4279.5	Tr 50	93.12	29.10	30.66		30.81	0.010022	2.70	58.96	109.71	0.88
Cuggiani-med2	4279.5	Tr 100	112.26	29.10	30.71		30.89	0.010749	2.91	65.38	111.96	0.92
Cuggiani-med2	4279.5	Tr 200	131.72	29.10	30.76	30.69	30.97	0.011552	3.11	71.12	113.93	0.96
Cuggiani-med2	4279.5	Tr 500	157.81	29.10	30.83	30.75	31.07	0.012120	3.33	79.10	116.61	1.00
Cuggiani-med2	4252.7	Tr 50	93.12	28.80	30.30	30.30	30.52	0.011139	3.33	55.61	113.87	1.00
Cuggiani-med2	4252.7	Tr 100	112.26	28.80	30.38	30.37	30.60	0.010591	3.40	64.39	114.97	0.99
Cuggiani-med2	4252.7	Tr 200	131.72	28.80	30.46	30.42	30.68	0.009925	3.43	73.34	116.07	0.97
Cuggiani-med2	4252.7	Tr 500	157.81	28.80	30.56	30.48	30.78	0.009164	3.46	84.95	117.49	0.94
Cuggiani-med2	4229.18	Tr 50	93.12	28.50	30.08	30.08	30.30	0.007567	2.97	60.53	117.09	0.88
Cuggiani-med2	4229.18	Tr 100	112.26	28.50	30.14	30.14	30.38	0.007971	3.15	67.86	117.39	0.91
Cuggiani-med2	4229.18	Tr 200	131.72	28.50	30.20	30.20	30.46	0.008484	3.35	74.20	117.64	0.94
Cuggiani-med2	4229.18	Tr 500	157.81	28.50	30.26	30.26	30.56	0.009207	3.60	81.63	117.94	0.99
Cuggiani-med2	4202.68	Tr 50	93.12	27.90	29.81	29.81	30.04	0.005880	2.83	61.94	112.10	0.78
Cuggiani-med2	4202.68	Tr 100	112.26	27.90	29.87	29.87	30.13	0.006305	3.03	69.44	112.92	0.81
Cuggiani-med2	4202.68	Tr 200	131.72	27.90	29.92	29.92	30.21	0.007072	3.28	74.86	113.51	0.87

HEC-RAS Plan: Art 8 comma 2 (Continued)

Reach	River Sta	Profile	Q Total (m ³ /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 (m ²)	Top Width (m)	Froude # Chl
Cuggiani-med2	4202.68	Tr 500	157.81	27.90	30.01	30.01	30.32	0.007217	3.44	84.61	114.55	0.88
Cuggiani-med2	4176.94	Tr 50	93.12	27.30	29.58	29.58	29.82	0.004881	2.89	65.18	113.64	0.72
Cuggiani-med2	4176.94	Tr 100	112.26	27.30	29.65	29.65	29.91	0.005368	3.11	72.52	114.06	0.76
Cuggiani-med2	4176.94	Tr 200	131.72	27.30	29.71	29.71	29.99	0.005617	3.26	80.28	114.47	0.78
Cuggiani-med2	4176.94	Tr 500	157.81	27.30	29.79	29.79	30.10	0.006061	3.48	88.95	114.81	0.82
Cuggiani-med2	4152.66	Tr 50	93.12	27.00	29.43		29.58	0.003212	2.38	76.04	113.05	0.59
Cuggiani-med2	4152.66	Tr 100	112.26	27.00	29.52		29.68	0.003328	2.51	86.00	113.69	0.60
Cuggiani-med2	4152.66	Tr 200	131.72	27.00	29.59		29.77	0.003491	2.64	94.70	114.24	0.62
Cuggiani-med2	4152.66	Tr 500	157.81	27.00	29.69		29.88	0.003686	2.81	105.37	114.91	0.64
Cuggiani-med2	4128.22	Tr 50	93.12	26.70	29.23	29.23	29.47	0.005000	2.73	62.48	116.36	0.72
Cuggiani-med2	4128.22	Tr 100	112.26	26.70	29.29	29.29	29.56	0.005427	2.93	70.30	117.23	0.76
Cuggiani-med2	4128.22	Tr 200	131.72	26.70	29.36	29.36	29.65	0.005642	3.07	78.40	118.12	0.78
Cuggiani-med2	4128.22	Tr 500	157.81	26.70	29.44	29.44	29.75	0.005924	3.26	88.15	119.02	0.81
Cuggiani-med2	4102.64	Tr 50	93.12	27.00	28.99	28.99	29.20	0.009595	3.03	59.51	124.77	0.94
Cuggiani-med2	4102.64	Tr 100	112.26	27.00	29.05	29.05	29.28	0.009826	3.16	67.36	126.63	0.96
Cuggiani-med2	4102.64	Tr 200	131.72	27.00	29.11	29.10	29.35	0.009953	3.28	75.29	130.02	0.97
Cuggiani-med2	4102.64	Tr 500	157.81	27.00	29.17	29.17	29.44	0.010423	3.48	83.59	130.75	1.00
Cuggiani-med2	4077.03	Tr 50	93.12	26.10	28.74	28.74	28.95	0.007724	2.90	63.75	130.28	0.81
Cuggiani-med2	4077.03	Tr 100	112.26	26.10	28.82	28.82	29.02	0.007604	2.96	73.39	131.72	0.81
Cuggiani-med2	4077.03	Tr 200	131.72	26.10	28.84	28.84	29.10	0.009542	3.34	75.84	132.08	0.90
Cuggiani-med2	4077.03	Tr 500	157.81	26.10	28.94		29.18	0.008442	3.27	89.81	134.11	0.86
Cuggiani-med2	4052.62	Tr 50	93.12	25.80	28.51	28.51	28.73	0.005885	2.94	66.37	130.23	0.73
Cuggiani-med2	4052.62	Tr 100	112.26	25.80	28.57	28.57	28.81	0.006402	3.14	74.18	131.19	0.77
Cuggiani-med2	4052.62	Tr 200	131.72	25.80	28.63	28.63	28.89	0.006834	3.31	81.55	132.09	0.80
Cuggiani-med2	4052.62	Tr 500	157.81	25.80	28.69	28.69	28.98	0.007639	3.58	89.32	133.04	0.85
Cuggiani-med2	4026.06	Tr 50	93.12	26.10	28.40		28.50	0.003410	2.11	85.56	137.09	0.58
Cuggiani-med2	4026.06	Tr 100	112.26	26.10	28.47		28.58	0.003533	2.23	95.83	137.65	0.60
Cuggiani-med2	4026.06	Tr 200	131.72	26.10	28.55		28.66	0.003590	2.33	105.95	138.16	0.61
Cuggiani-med2	4026.06	Tr 500	157.81	26.10	28.63		28.76	0.003704	2.45	118.02	138.73	0.62
Cuggiani-med2	4002.6	Tr 50	93.12	25.50	28.15	28.15	28.38	0.005400	2.94	66.08	132.21	0.73
Cuggiani-med2	4002.6	Tr 100	112.26	25.50	28.22	28.22	28.46	0.005612	3.08	75.66	133.45	0.75
Cuggiani-med2	4002.6	Tr 200	131.72	25.50	28.27	28.27	28.54	0.006107	3.28	82.79	133.79	0.78
Cuggiani-med2	4002.6	Tr 500	157.81	25.50	28.34	28.34	28.63	0.006585	3.49	92.05	134.24	0.82
Cuggiani-med2	3978.42	Tr 50	93.12	24.90	27.85	27.85	28.09	0.005030	2.89	65.77	122.55	0.69
Cuggiani-med2	3978.42	Tr 100	112.26	24.90	27.92	27.92	28.18	0.005502	3.08	73.94	124.47	0.72
Cuggiani-med2	3978.42	Tr 200	131.72	24.90	28.00	28.00	28.26	0.005421	3.14	84.14	126.35	0.72
Cuggiani-med2	3978.42	Tr 500	157.81	24.90	28.08	28.08	28.35	0.005883	3.36	93.44	128.04	0.76
Cuggiani-med2	3952.58	Tr 50	93.12	26.10	27.61	27.61	27.81	0.007229	2.81	62.58	125.98	0.85
Cuggiani-med2	3952.58	Tr 100	112.26	26.10	27.65	27.65	27.89	0.008252	3.08	68.26	126.36	0.91
Cuggiani-med2	3952.58	Tr 200	131.72	26.10	27.72	27.72	27.97	0.008239	3.19	76.42	126.89	0.92
Cuggiani-med2	3952.58	Tr 500	157.81	26.10	27.79	27.79	28.06	0.008637	3.39	85.15	127.46	0.95
Cuggiani-med2	3928.35	Tr 50	93.12	25.80	27.38		27.56	0.007259	2.89	64.85	127.86	0.84
Cuggiani-med2	3928.35	Tr 100	112.26	25.80	27.46		27.64	0.006940	2.75	74.88	128.57	0.83
Cuggiani-med2	3928.35	Tr 200	131.72	25.80	27.53		27.72	0.006832	2.84	83.83	129.21	0.83
Cuggiani-med2	3928.35	Tr 500	157.81	25.80	27.61		27.82	0.006772	2.96	94.78	129.93	0.83
Cuggiani-med2	3902.56	Tr 50	93.12	24.90	27.15	27.15	27.37	0.006667	2.91	64.51	126.36	0.80
Cuggiani-med2	3902.56	Tr 100	112.26	24.90	27.21	27.21	27.45	0.007136	3.10	72.20	127.87	0.83
Cuggiani-med2	3902.56	Tr 200	131.72	24.90	27.27	27.27	27.52	0.007482	3.26	79.67	129.32	0.86
Cuggiani-med2	3902.56	Tr 500	157.81	24.90	27.34	27.34	27.62	0.007954	3.47	88.52	130.42	0.89
Cuggiani-med2	3877.65	Tr 50	93.12	25.20	26.99		27.14	0.007904	2.76	66.50	127.42	0.81
Cuggiani-med2	3877.65	Tr 100	112.26	25.20	27.06		27.22	0.008126	2.87	74.69	128.96	0.83
Cuggiani-med2	3877.65	Tr 200	131.72	25.20	27.12		27.29	0.008250	2.97	82.65	130.41	0.84
Cuggiani-med2	3877.65	Tr 500	157.81	25.20	27.19		27.38	0.008405	3.09	92.59	132.19	0.85
Cuggiani-med2	3852.54	Tr 50	93.12	25.20	26.74	26.71	26.91	0.010424	2.96	60.84	131.21	0.94
Cuggiani-med2	3852.54	Tr 100	112.26	25.20	26.80	26.77	26.98	0.010353	3.05	69.36	132.90	0.94
Cuggiani-med2	3852.54	Tr 200	131.72	25.20	26.86	26.82	27.06	0.010403	3.14	77.19	134.44	0.95
Cuggiani-med2	3852.54	Tr 500	157.81	25.20	26.93	26.88	27.14	0.010504	3.26	86.88	136.32	0.96
Cuggiani-med2	3827.86	Tr 50	93.12	24.60	26.54		26.66	0.008640	2.62	68.38	140.11	0.81
Cuggiani-med2	3827.86	Tr 100	112.26	24.60	26.59		26.73	0.009316	2.79	75.46	141.71	0.85
Cuggiani-med2	3827.86	Tr 200	131.72	24.60	26.64		26.80	0.009531	2.90	83.20	143.44	0.86
Cuggiani-med2	3827.86	Tr 500	157.81	24.60	26.71		26.88	0.009627	3.01	93.34	145.55	0.87
Cuggiani-med2	3802.52	Tr 50	93.12	24.90	26.24	26.22	26.39	0.012847	2.92	61.19	141.11	1.01
Cuggiani-med2	3802.52	Tr 100	112.26	24.90	26.32	26.26	26.47	0.011524	2.89	71.48	142.97	0.97
Cuggiani-med2	3802.52	Tr 200	131.72	24.90	26.38	26.31	26.54	0.011170	2.94	80.00	144.49	0.96
Cuggiani-med2	3802.52	Tr 500	157.81	24.90	26.45	26.35	26.62	0.010956	3.05	90.45	146.83	0.96
Cuggiani-med2	3777.5	Tr 50	93.12	23.70	25.96	25.96	26.15	0.007427	3.04	68.39	144.00	0.78
Cuggiani-med2	3777.5	Tr 100	112.26	23.70	26.01	26.01	26.22	0.008281	3.26	75.19	145.05	0.83
Cuggiani-med2	3777.5	Tr 200	131.72	23.70	26.06	26.06	26.28	0.008829	3.42	82.27	146.14	0.86
Cuggiani-med2	3777.5	Tr 500	157.81	23.70	26.12	26.12	26.36	0.009445	3.60	91.48	149.32	0.89
Cuggiani-med2	3752.5	Tr 50	93.12	24.60	25.61	25.61	25.78	0.016820	3.11	57.59	148.06	1.16
Cuggiani-med2	3752.5	Tr 100	112.26	24.60	25.67	25.65	25.85	0.016446	3.20	65.39	149.48	1.15
Cuggiani-med2	3752.5	Tr 200	131.72	24.60	25.72	25.69	25.91	0.015949	3.26	73.15	150.89	1.14
Cuggiani-med2	3752.5	Tr 500	157.81	24.60	25.78	25.75	25.99	0.015512	3.35	82.82	152.62	1.14
Cuggiani-med2	3725.88	Tr 50	93.12	24.00	25.38		25.48	0.007647	2.17	74.67	158.71	0.80
Cuggiani-med2	3725.88	Tr 100	112.26	24.00	25.44		25.55	0.007788	2.30	83.64	160.38	0.82
Cuggiani-med2	3725.88	Tr 200	131.72	24.00	25.49		25.62	0.007876	2.42	92.29	161.96	0.83

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
Cuggiani-med2	3725.88	Tr 500	157.81	24.00	25.56		25.70	0.007971	2.56	103.07	163.40	0.85
Cuggiani-med2	3701.02	Tr 50	93.12	24.00	25.23		25.32	0.005467	2.17	83.17	172.96	0.71
Cuggiani-med2	3701.02	Tr 100	112.26	24.00	25.26		25.37	0.006490	2.42	88.88	173.15	0.78
Cuggiani-med2	3701.02	Tr 200	131.72	24.00	25.31		25.44	0.006697	2.54	97.60	173.43	0.80
Cuggiani-med2	3701.02	Tr 500	157.81	24.00	25.37		25.51	0.007191	2.72	107.15	173.74	0.83
Cuggiani-med2	3676.62	Tr 50	93.12	23.40	24.92	24.89	25.11	0.012858	3.26	62.83	164.80	1.06
Cuggiani-med2	3676.62	Tr 100	112.26	23.40	25.00	24.99	25.17	0.010829	3.10	75.31	165.66	0.98
Cuggiani-med2	3676.62	Tr 200	131.72	23.40	25.05	25.02	25.22	0.010901	3.18	83.42	166.22	0.99
Cuggiani-med2	3676.62	Tr 500	157.81	23.40	25.13	25.06	25.30	0.009722	3.12	97.27	167.16	0.95
Cuggiani-med2	3651	Tr 50	93.12	22.50	24.72	24.71	24.90	0.005711	2.73	74.48	166.45	0.74
Cuggiani-med2	3651	Tr 100	112.26	22.50	24.80	24.96	24.96	0.005478	2.74	87.53	172.58	0.73
Cuggiani-med2	3651	Tr 200	131.72	22.50	24.88		25.03	0.005037	2.70	101.98	179.12	0.70
Cuggiani-med2	3651	Tr 500	157.81	22.50	24.96		25.12	0.005222	2.82	116.66	186.96	0.72
Cuggiani-med2	3627.71	Tr 50	93.12	22.95	24.61		24.74	0.006753	2.52	72.76	157.53	0.79
Cuggiani-med2	3627.71	Tr 100	112.26	22.95	24.68		24.82	0.006277	2.55	85.43	165.10	0.77
Cuggiani-med2	3627.71	Tr 200	131.72	22.95	24.77		24.90	0.005907	2.59	99.22	178.60	0.75
Cuggiani-med2	3627.71	Tr 500	157.81	22.95	24.85		24.99	0.005756	2.67	113.57	181.43	0.75
Cuggiani-med2	3600.98	Tr 50	93.12	22.35	24.52		24.62	0.002886	2.07	95.53	173.95	0.54
Cuggiani-med2	3600.98	Tr 100	112.26	22.35	24.60		24.70	0.002843	2.13	109.94	177.56	0.55
Cuggiani-med2	3600.98	Tr 200	131.72	22.35	24.70		24.79	0.002659	2.14	126.43	184.91	0.53
Cuggiani-med2	3600.98	Tr 500	157.81	22.35	24.76		24.87	0.003082	2.36	138.31	192.08	0.58
Cuggiani-med2	3566.97	Tr 50	93.12	22.14	24.39	24.32	24.52	0.002603	2.85	96.24	197.03	0.58
Cuggiani-med2	3566.97	Tr 100	112.26	22.14	24.37	24.37	24.58	0.004073	3.30	93.19	193.91	0.72
Cuggiani-med2	3566.97	Tr 200	131.72	22.14	24.39	24.39	24.65	0.005125	3.73	96.83	197.41	0.81
Cuggiani-med2	3566.97	Tr 500	157.81	22.14	24.49	24.49	24.73	0.004807	3.72	113.89	202.52	0.79
Cuggiani-med2	3558.31 SC_0028 Cugg.9	Bridge										
Cuggiani-med2	3550.96	Tr 50	93.12	21.33	23.75	23.75	23.95	0.008107	3.15	62.24	128.72	0.79
Cuggiani-med2	3550.96	Tr 100	112.26	21.33	23.81	23.81	24.03	0.008837	3.37	69.35	132.80	0.83
Cuggiani-med2	3550.96	Tr 200	131.72	21.33	23.86	23.86	24.10	0.009445	3.55	75.52	134.63	0.86
Cuggiani-med2	3550.96	Tr 500	157.81	21.33	23.93	23.93	24.20	0.010212	3.78	83.00	136.68	0.90
Cuggiani-med2	3525.58	Tr 50	93.12	21.96	23.36	23.34	23.52	0.011738	2.88	61.15	139.35	0.99
Cuggiani-med2	3525.58	Tr 100	112.26	21.96	23.43	23.37	23.60	0.010945	2.91	71.41	144.65	0.97
Cuggiani-med2	3525.58	Tr 200	131.72	21.96	23.50		23.67	0.010078	2.92	82.51	155.15	0.94
Cuggiani-med2	3525.58	Tr 500	157.81	21.96	23.58	23.49	23.76	0.009992	3.03	93.95	161.21	0.94
Cuggiani-med2	3500.94	Tr 50	93.12	21.60	23.29		23.36	0.002862	1.82	97.51	172.69	0.53
Cuggiani-med2	3500.94	Tr 100	112.26	21.60	23.36		23.44	0.003074	1.95	108.43	174.85	0.56
Cuggiani-med2	3500.94	Tr 200	131.72	21.60	23.42		23.51	0.003376	2.12	119.86	180.39	0.59
Cuggiani-med2	3500.94	Tr 500	157.81	21.60	23.49		23.59	0.003669	2.28	131.88	183.70	0.62
Cuggiani-med2	3479.51	Tr 50	93.12	21.60	23.24		23.30	0.002692	1.59	104.16	189.31	0.51
Cuggiani-med2	3479.51	Tr 100	112.26	21.60	23.30		23.37	0.002924	1.72	115.27	193.00	0.53
Cuggiani-med2	3479.51	Tr 200	131.72	21.60	23.37		23.44	0.003002	1.81	127.61	197.04	0.55
Cuggiani-med2	3479.51	Tr 500	157.81	21.60	23.42		23.51	0.003337	1.97	139.41	200.86	0.58
Cuggiani-med2	3450.92	Tr 50	93.12	21.60	23.00	22.99	23.15	0.012090	2.88	63.89	165.56	1.00
Cuggiani-med2	3450.92	Tr 100	112.26	21.60	23.06	23.03	23.21	0.011232	2.84	75.21	174.50	0.96
Cuggiani-med2	3450.92	Tr 200	131.72	21.60	23.12	23.05	23.28	0.010924	2.89	87.41	228.41	0.96
Cuggiani-med2	3450.92	Tr 500	157.81	21.60	23.20		23.35	0.009568	2.85	105.25	233.17	0.91
Cuggiani-med2	3426.13	Tr 50	93.12	21.60	22.87		22.95	0.004643	1.83	83.69	157.47	0.64
Cuggiani-med2	3426.13	Tr 100	112.26	21.60	22.92		23.01	0.005136	2.00	91.87	162.25	0.68
Cuggiani-med2	3426.13	Tr 200	131.72	21.60	22.98		23.08	0.005419	2.14	100.66	167.23	0.71
Cuggiani-med2	3426.13	Tr 500	157.81	21.60	23.04		23.16	0.005691	2.30	112.16	173.53	0.73
Cuggiani-med2	3400.9	Tr 50	93.12	20.70	22.66		22.81	0.006118	2.53	75.81	189.94	0.76
Cuggiani-med2	3400.9	Tr 100	112.26	20.70	22.75	22.61	22.88	0.005321	2.45	92.51	191.80	0.71
Cuggiani-med2	3400.9	Tr 200	131.72	20.70	22.81		22.94	0.005361	2.52	103.76	193.12	0.72
Cuggiani-med2	3400.9	Tr 500	157.81	20.70	22.89		23.03	0.005152	2.58	119.67	195.60	0.71
Cuggiani-med2	3376.88	Tr 50	93.12	20.70	22.40	22.40	22.61	0.011007	2.99	55.71	128.21	0.99
Cuggiani-med2	3376.88	Tr 100	112.26	20.70	22.45	22.45	22.68	0.012120	3.19	62.19	135.50	1.04
Cuggiani-med2	3376.88	Tr 200	131.72	20.70	22.53	22.53	22.75	0.010978	3.14	74.20	165.97	1.00
Cuggiani-med2	3376.88	Tr 500	157.81	20.70	22.59	22.59	22.84	0.011670	3.34	83.73	169.94	1.04
Cuggiani-med2	3350.88	Tr 50	93.12	20.85	22.17		22.27	0.007099	2.28	75.38	165.12	0.78
Cuggiani-med2	3350.88	Tr 100	112.26	20.85	22.23		22.34	0.007267	2.37	85.63	182.57	0.80
Cuggiani-med2	3350.88	Tr 200	131.72	20.85	22.28		22.40	0.007369	2.44	95.48	190.24	0.81
Cuggiani-med2	3350.88	Tr 500	157.81	20.85	22.35		22.48	0.007508	2.54	107.91	199.51	0.82
Cuggiani-med2	3322.48	Tr 50	93.12	20.55	21.96		22.07	0.007134	2.32	76.48	186.37	0.79
Cuggiani-med2	3322.48	Tr 100	112.26	20.55	22.02		22.13	0.007373	2.41	86.66	193.00	0.81
Cuggiani-med2	3322.48	Tr 200	131.72	20.55	22.07		22.19	0.007543	2.47	96.51	197.83	0.82
Cuggiani-med2	3322.48	Tr 500	157.81	20.55	22.13		22.26	0.007687	2.53	108.93	200.80	0.83
Cuggiani-med2	3300.86	Tr 50	93.12	20.40	21.83		21.92	0.006239	2.25	87.70	230.81	0.75
Cuggiani-med2	3300.86	Tr 100	112.26	20.40	21.89		21.98	0.006066	2.31	101.26	241.22	0.74
Cuggiani-med2	3300.86	Tr 200	131.72	20.40	21.94		22.04	0.005806	2.35	114.95	244.78	0.74
Cuggiani-med2	3300.86	Tr 500	157.81	20.40	22.01		22.11	0.005616	2.41	131.45	247.00	0.73
Cuggiani-med2	3277.59	Tr 50	93.12	20.40	21.76		21.80	0.003247	1.62	114.50	249.47	0.55
Cuggiani-med2	3277.59	Tr 100	112.26	20.40	21.82		21.87	0.003280	1.69	128.83	251.12	0.55
Cuggiani-med2	3277.59	Tr 200	131.72	20.40	21.87		21.93	0.003247	1.75	143.26	252.77	0.56
Cuggiani-med2	3277.59	Tr 500	157.81	20.40	21.94		22.00	0.003274	1.84	160.20	253.90	0.57
Cuggiani-med2	3265.43	Tr 50	93.12	20.70	21.73		21.76	0.003042	1.36	115.62	238.20	0.52

HEC-RAS Plan: Art_8_comma 2 (Continued)

Reach	River Sta	Profile	Q Total (m ³ /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 (m ²)	Top Width (m)	Froude # Chl
Cuggiani-med2	3265.43	Tr 100	112.26	20.70	21.78		21.83	0.003147	1.44	128.95	240.53	0.53
Cuggiani-med2	3265.43	Tr 200	131.72	20.70	21.84		21.89	0.003159	1.50	142.69	242.90	0.54
Cuggiani-med2	3265.43	Tr 500	157.81	20.70	21.90		21.96	0.003263	1.60	158.64	245.96	0.55
Cuggiani-med2	3250.84	Tr 50	93.12	20.70	21.64		21.70	0.005589	1.86	95.15	230.01	0.70
Cuggiani-med2	3250.84	Tr 100	112.26	20.70	21.70		21.76	0.005481	1.94	107.84	232.08	0.70
Cuggiani-med2	3250.84	Tr 200	131.72	20.70	21.76		21.83	0.005144	1.97	121.81	234.34	0.69
Cuggiani-med2	3250.84	Tr 500	157.81	20.70	21.82		21.90	0.005128	2.07	136.76	236.73	0.70
Cuggiani-med2	3225.92	Tr 50	93.12	20.40	21.50		21.57	0.004989	1.74	92.72	229.10	0.66
Cuggiani-med2	3225.92	Tr 100	112.26	20.40	21.56		21.63	0.004910	1.81	105.95	231.78	0.66
Cuggiani-med2	3225.92	Tr 200	131.72	20.40	21.61		21.70	0.005133	1.94	118.87	236.65	0.69
Cuggiani-med2	3225.92	Tr 500	157.81	20.40	21.68		21.77	0.004983	2.02	134.90	239.08	0.69
Cuggiani-med2	3200.82	Tr 50	93.12	20.40	21.39		21.45	0.004217	1.82	103.04	232.37	0.62
Cuggiani-med2	3200.82	Tr 100	112.26	20.40	21.46		21.52	0.004107	1.88	117.37	234.77	0.62
Cuggiani-med2	3200.82	Tr 200	131.72	20.40	21.51		21.58	0.004048	1.94	130.77	236.99	0.62
Cuggiani-med2	3200.82	Tr 500	157.81	20.40	21.58		21.65	0.004002	2.02	147.48	239.74	0.63
Cuggiani-med2	3172.8	Tr 50	93.12	20.10	21.31		21.35	0.002843	1.66	116.23	234.32	0.53
Cuggiani-med2	3172.8	Tr 100	112.26	20.10	21.37		21.42	0.002850	1.73	130.84	235.22	0.53
Cuggiani-med2	3172.8	Tr 200	131.72	20.10	21.42		21.48	0.002890	1.80	144.16	236.04	0.54
Cuggiani-med2	3172.8	Tr 500	157.81	20.10	21.49		21.56	0.002948	1.89	160.56	237.05	0.55
Cuggiani-med2	3150.8	Tr 50	93.12	19.80	21.25		21.29	0.002503	1.64	125.97	267.29	0.50
Cuggiani-med2	3150.8	Tr 100	112.26	19.80	21.31		21.36	0.002496	1.70	143.05	272.12	0.50
Cuggiani-med2	3150.8	Tr 200	131.72	19.80	21.37		21.42	0.002515	1.76	158.63	275.31	0.51
Cuggiani-med2	3150.8	Tr 500	157.81	19.80	21.44		21.49	0.002547	1.84	177.97	279.23	0.52
Cuggiani-med2	3127.02	Tr 50	93.12	20.10	21.19		21.23	0.002820	1.62	120.90	257.57	0.52
Cuggiani-med2	3127.02	Tr 100	112.26	20.10	21.25		21.30	0.002773	1.67	137.41	261.32	0.53
Cuggiani-med2	3127.02	Tr 200	131.72	20.10	21.30		21.36	0.002861	1.76	151.81	272.39	0.54
Cuggiani-med2	3127.02	Tr 500	157.81	20.10	21.37		21.43	0.002874	1.83	170.70	275.41	0.54
Cuggiani-med2	3100.78	Tr 50	93.12	19.50	21.13		21.17	0.001924	1.36	138.59	273.81	0.43
Cuggiani-med2	3100.78	Tr 100	112.26	19.50	21.20		21.23	0.001944	1.42	156.17	277.27	0.44
Cuggiani-med2	3100.78	Tr 200	131.72	19.50	21.25		21.29	0.002035	1.50	170.85	280.12	0.45
Cuggiani-med2	3100.78	Tr 500	157.81	19.50	21.32		21.36	0.002134	1.60	189.74	285.37	0.47
Cuggiani-med2	3074.4	Tr 50	93.12	19.80	21.05		21.10	0.002680	1.74	123.38	273.83	0.52
Cuggiani-med2	3074.4	Tr 100	112.26	19.80	21.12		21.17	0.002576	1.77	141.93	277.88	0.52
Cuggiani-med2	3074.4	Tr 200	131.72	19.80	21.17		21.23	0.002685	1.86	155.82	280.67	0.53
Cuggiani-med2	3074.4	Tr 500	157.81	19.80	21.24		21.30	0.002763	1.95	174.14	284.56	0.54
Cuggiani-med2	3050.76	Tr 50	93.12	19.20	20.98		21.05	0.002161	1.80	123.11	266.45	0.48
Cuggiani-med2	3050.76	Tr 100	112.26	19.20	21.04		21.11	0.002549	2.01	137.32	275.09	0.52
Cuggiani-med2	3050.76	Tr 200	131.72	19.20	21.08		21.16	0.002765	2.13	149.34	277.62	0.55
Cuggiani-med2	3050.76	Tr 500	157.81	19.20	21.14		21.23	0.002890	2.24	166.76	281.25	0.56
Cuggiani-med2	3023.59	Tr 50	93.12	18.90	20.80	20.80	20.95	0.004928	2.62	89.87	247.51	0.71
Cuggiani-med2	3023.59	Tr 100	112.26	18.90	20.85	20.85	21.00	0.005199	2.75	101.90	252.88	0.74
Cuggiani-med2	3023.59	Tr 200	131.72	18.90	20.92		21.06	0.004691	2.70	119.66	260.13	0.71
Cuggiani-med2	3023.59	Tr 500	157.81	18.90	20.99		21.13	0.004371	2.70	140.40	268.57	0.69
Cuggiani-med2	3000.74	Tr 50	93.12	18.60	20.75		20.83	0.002159	1.83	109.25	239.60	0.47
Cuggiani-med2	3000.74	Tr 100	112.26	18.60	20.82		20.89	0.002359	1.93	123.88	246.05	0.50
Cuggiani-med2	3000.74	Tr 200	131.72	18.60	20.88		20.96	0.002380	1.97	141.08	253.42	0.50
Cuggiani-med2	3000.74	Tr 500	157.81	18.60	20.95		21.04	0.002537	2.05	159.07	260.90	0.52
Cuggiani-med2	2985.65	Tr 50	93.12	18.60	20.61	20.61	20.77	0.005346	2.72	81.73	216.03	0.74
Cuggiani-med2	2985.65	Tr 100	112.26	18.60	20.66	20.66	20.83	0.005597	2.86	93.72	227.79	0.76
Cuggiani-med2	2985.65	Tr 200	131.72	18.60	20.68	20.68	20.89	0.006944	3.21	97.84	231.68	0.85
Cuggiani-med2	2985.65	Tr 500	157.81	18.60	20.80	20.80	20.97	0.005721	3.07	127.54	264.30	0.78
Cuggiani-med2	2975.43	Cuggiani 10	Bridge									
Cuggiani-med2	2964.64	Tr 50	93.12	18.90	20.32	20.32	20.52	0.008117	3.02	64.63	148.77	0.90
Cuggiani-med2	2964.64	Tr 100	112.26	18.90	20.36	20.36	20.60	0.009394	3.33	70.68	154.10	0.97
Cuggiani-med2	2964.64	Tr 200	131.72	18.90	20.49	20.49	20.68	0.007268	3.14	95.44	191.61	0.87
Cuggiani-med2	2964.64	Tr 500	157.81	18.90	20.55	20.55	20.75	0.007858	3.34	106.74	228.18	0.91
Cuggiani-med2	2950.72	Tr 50	93.12	18.30	20.08		20.20	0.003668	2.16	74.62	103.34	0.62
Cuggiani-med2	2950.72	Tr 100	112.26	18.30	20.13		20.31	0.005692	2.74	80.29	158.40	0.77
Cuggiani-med2	2950.72	Tr 200	131.72	18.30	20.18		20.38	0.006117	2.92	88.91	165.68	0.81
Cuggiani-med2	2950.72	Tr 500	157.81	18.30	20.28	20.09	20.47	0.005666	2.95	106.22	179.31	0.79
Cuggiani-med2	2924.83	Tr 50	93.12	18.60	19.85	19.85	20.04	0.010586	2.92	58.20	152.18	0.99
Cuggiani-med2	2924.83	Tr 100	112.26	18.60	19.92	19.92	20.11	0.010288	3.02	68.46	159.08	0.99
Cuggiani-med2	2924.83	Tr 200	131.72	18.60	20.00	20.00	20.18	0.009170	3.01	81.09	167.17	0.95
Cuggiani-med2	2924.83	Tr 500	157.81	18.60	20.01	20.01	20.26	0.011924	3.47	84.23	169.12	1.08
Cuggiani-med2	2900.7	Tr 50	93.12	18.00	19.78		19.85	0.003831	1.91	99.55	209.61	0.60
Cuggiani-med2	2900.7	Tr 100	112.26	18.00	19.83		19.91	0.004447	2.13	111.67	230.80	0.66
Cuggiani-med2	2900.7	Tr 200	131.72	18.00	19.89		19.97	0.004492	2.21	123.78	232.97	0.66
Cuggiani-med2	2900.7	Tr 500	157.81	18.00	19.96		20.05	0.004407	2.28	140.37	236.18	0.67
Cuggiani-med2	2875.32	Tr 50	93.12	17.40	19.55	19.55	19.71	0.006459	2.81	81.34	216.88	0.79
Cuggiani-med2	2875.32	Tr 100	112.26	17.40	19.60	19.60	19.77	0.006807	2.96	91.57	221.07	0.81
Cuggiani-med2	2875.32	Tr 200	131.72	17.40	19.64	19.64	19.82	0.007328	3.13	100.10	224.50	0.85
Cuggiani-med2	2875.32	Tr 500	157.81	17.40	19.67	19.67	19.88	0.008517	3.43	107.95	227.62	0.92
Cuggiani-med2	2850.68	Tr 50	93.12	17.10	19.21	19.21	19.39	0.004449	2.55	83.45	212.93	0.68
Cuggiani-med2	2850.68	Tr 100	112.26	17.10	19.27	19.27	19.45	0.004551	2.65	96.32	215.78	0.70
Cuggiani-med2	2850.68	Tr 200	131.72	17.10	19.32	19.32	19.51	0.004870	2.79	106.30	217.97	0.72
Cuggiani-med2	2850.68	Tr 500	157.81	17.10	19.37	19.37	19.58	0.005395	3.01	117.32	220.36	0.77

HEC-RAS Plan: Art_8_comma 2 (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
Cuggiani-med2	2824.79	Tr 50	93.12	17.10	18.93	18.93	19.10	0.006003	2.60	79.25	201.63	0.77
Cuggiani-med2	2824.79	Tr 100	112.26	17.10	18.98	18.98	19.16	0.006541	2.78	88.33	203.65	0.81
Cuggiani-med2	2824.79	Tr 200	131.72	17.10	19.02	19.02	19.21	0.006925	2.93	97.28	205.62	0.84
Cuggiani-med2	2824.79	Tr 500	157.81	17.10	19.08	19.08	19.28	0.007396	3.12	108.22	208.00	0.87
Cuggiani-med2	2800.66	Tr 50	93.12	16.80	18.72	18.72	18.88	0.006484	2.63	78.32	202.26	0.79
Cuggiani-med2	2800.66	Tr 100	112.26	16.80	18.77	18.77	18.94	0.006756	2.77	88.59	206.29	0.81
Cuggiani-med2	2800.66	Tr 200	131.72	16.80	18.82	18.82	18.99	0.006907	2.88	98.70	210.18	0.83
Cuggiani-med2	2800.66	Tr 500	157.81	16.80	18.88		19.06	0.006853	2.96	112.65	215.43	0.83
Cuggiani-med2	2775.16	Tr 50	93.12	16.50	18.54	18.54	18.70	0.006237	2.96	80.08	197.73	0.76
Cuggiani-med2	2775.16	Tr 100	112.26	16.50	18.58	18.58	18.76	0.006921	3.19	88.45	199.50	0.81
Cuggiani-med2	2775.16	Tr 200	131.72	16.50	18.63	18.63	18.81	0.006978	3.28	99.89	231.20	0.82
Cuggiani-med2	2775.16	Tr 500	157.81	16.50	18.67	18.67	18.87	0.007764	3.52	110.25	234.23	0.86
Cuggiani-med2	2750.64	Tr 50	93.12	15.90	18.21	18.21	18.41	0.004448	2.60	81.11	212.65	0.68
Cuggiani-med2	2750.64	Tr 100	112.26	15.90	18.27	18.27	18.47	0.004607	2.72	94.00	218.21	0.70
Cuggiani-med2	2750.64	Tr 200	131.72	15.90	18.34	18.34	18.54	0.004522	2.77	110.59	240.66	0.70
Cuggiani-med2	2750.64	Tr 500	157.81	15.90	18.40	18.40	18.60	0.004873	2.94	123.87	243.62	0.73
Cuggiani-med2	2722.95	Tr 50	93.12	16.50	18.04	18.04	18.18	0.007802	2.73	78.18	215.91	0.86
Cuggiani-med2	2722.95	Tr 100	112.26	16.50	18.08	18.08	18.24	0.008419	2.89	87.10	220.39	0.89
Cuggiani-med2	2722.95	Tr 200	131.72	16.50	18.12	18.12	18.29	0.009129	3.07	94.88	224.23	0.93
Cuggiani-med2	2722.95	Tr 500	157.81	16.50	18.16	18.16	18.35	0.009736	3.24	105.44	229.33	0.97
Cuggiani-med2	2700.62	Tr 50	93.12	15.90	17.76	17.76	17.92	0.007485	2.71	80.60	236.10	0.83
Cuggiani-med2	2700.62	Tr 100	112.26	15.90	17.81	17.81	17.96	0.007638	2.79	91.70	238.10	0.85
Cuggiani-med2	2700.62	Tr 200	131.72	15.90	17.84	17.84	18.01	0.008188	2.94	100.23	239.64	0.88
Cuggiani-med2	2700.62	Tr 500	157.81	15.90	17.87	17.87	18.07	0.009656	3.23	107.38	240.91	0.96
Cuggiani-med2	2674.69	Tr 50	93.12	16.50	17.48		17.59	0.009253	2.63	79.88	227.20	0.91
Cuggiani-med2	2674.69	Tr 100	112.26	16.50	17.54		17.65	0.008176	2.59	94.04	230.77	0.87
Cuggiani-med2	2674.69	Tr 200	131.72	16.50	17.60		17.70	0.007796	2.62	106.01	233.75	0.85
Cuggiani-med2	2674.69	Tr 500	157.81	16.50	17.65		17.77	0.007648	2.70	119.96	237.17	0.85
Cuggiani-med2	2650.6	Tr 50	93.12	16.20	17.37		17.43	0.004198	1.96	99.21	214.74	0.64
Cuggiani-med2	2650.6	Tr 100	112.26	16.20	17.42		17.50	0.004469	2.10	111.38	227.93	0.66
Cuggiani-med2	2650.6	Tr 200	131.72	16.20	17.47		17.55	0.004532	2.18	123.11	230.67	0.67
Cuggiani-med2	2650.6	Tr 500	157.81	16.20	17.52		17.62	0.004947	2.35	134.61	233.34	0.71
Cuggiani-med2	2623.89	Tr 50	93.12	15.60	17.15	17.15	17.30	0.005690	2.69	85.84	224.38	0.77
Cuggiani-med2	2623.89	Tr 100	112.26	15.60	17.19	17.19	17.35	0.006123	2.86	95.75	226.70	0.80
Cuggiani-med2	2623.89	Tr 200	131.72	15.60	17.23	17.23	17.40	0.006554	3.01	104.75	228.78	0.83
Cuggiani-med2	2623.89	Tr 500	157.81	15.60	17.32		17.47	0.005702	2.93	124.81	233.35	0.78
Cuggiani-med2	2600.58	Tr 50	93.12	15.60	16.86	16.86	17.04	0.007969	2.55	54.73	134.24	0.86
Cuggiani-med2	2600.58	Tr 100	112.26	15.60	16.91	16.87	17.12	0.008902	2.80	62.35	141.28	0.92
Cuggiani-med2	2600.58	Tr 200	131.72	15.60	16.97	16.94	17.20	0.009629	3.02	69.82	147.85	0.97
Cuggiani-med2	2600.58	Tr 500	157.81	15.60	17.05	17.03	17.29	0.009322	3.15	83.31	159.03	0.96
Cuggiani-med2	2573.79	Tr 50	93.12	15.90	16.67		16.79	0.009147	2.52	70.60	172.35	0.91
Cuggiani-med2	2573.79	Tr 100	112.26	15.90	16.74		16.86	0.008426	2.56	82.72	179.19	0.89
Cuggiani-med2	2573.79	Tr 200	131.72	15.90	16.80		16.93	0.008270	2.65	93.03	184.81	0.89
Cuggiani-med2	2573.79	Tr 500	157.81	15.90	16.86	16.75	17.01	0.009543	2.98	106.89	217.57	0.97
Cuggiani-med2	2550.56	Tr 50	93.12	15.30	16.49		16.60	0.007500	2.50	74.22	185.25	0.82
Cuggiani-med2	2550.56	Tr 100	112.26	15.30	16.56		16.68	0.007662	2.63	89.02	199.71	0.84
Cuggiani-med2	2550.56	Tr 200	131.72	15.30	16.63		16.74	0.007012	2.61	102.21	203.08	0.81
Cuggiani-med2	2550.56	Tr 500	157.81	15.30	16.71		16.82	0.006428	2.60	118.76	207.23	0.78
Cuggiani-med2	2523.73	Tr 50	93.12	15.30	16.35		16.43	0.004618	1.97	84.35	160.96	0.66
Cuggiani-med2	2523.73	Tr 100	112.26	15.30	16.42		16.51	0.004585	2.06	96.05	165.57	0.66
Cuggiani-med2	2523.73	Tr 200	131.72	15.30	16.49		16.58	0.004663	2.17	106.49	169.57	0.68
Cuggiani-med2	2523.73	Tr 500	157.81	15.30	16.57		16.67	0.004649	2.27	121.37	189.86	0.68
Cuggiani-med2	2486.55	Tr 50	93.12	14.70	16.04	16.01	16.18	0.010899	2.88	64.72	158.38	0.94
Cuggiani-med2	2486.55	Tr 100	112.26	14.70	16.08	16.04	16.24	0.012203	3.10	70.89	160.78	1.00
Cuggiani-med2	2486.55	Tr 200	131.72	14.70	16.11	16.08	16.30	0.013483	3.32	76.49	162.93	1.05
Cuggiani-med2	2486.55	Tr 500	157.81	14.70	16.15	16.15	16.37	0.015333	3.60	82.87	165.33	1.13
Cuggiani-med2	2450.52	Tr 50	93.12	14.10	15.62	15.56	15.79	0.010464	2.93	67.00	168.61	0.96
Cuggiani-med2	2450.52	Tr 100	112.26	14.10	15.68	15.58	15.85	0.009668	2.93	78.13	170.70	0.93
Cuggiani-med2	2450.52	Tr 200	131.72	14.10	15.76		15.91	0.008145	2.81	92.08	173.30	0.86
Cuggiani-med2	2450.52	Tr 500	157.81	14.10	15.90		16.03	0.005751	2.52	116.40	178.92	0.73
Cuggiani-med2	2423.47	Tr 50	93.12	14.40	15.44		15.53	0.007263	2.08	77.46	162.45	0.77
Cuggiani-med2	2423.47	Tr 100	112.26	14.40	15.53		15.62	0.006279	2.07	91.81	167.18	0.73
Cuggiani-med2	2423.47	Tr 200	131.72	14.40	15.62		15.70	0.006210	2.18	106.48	189.35	0.73
Cuggiani-med2	2423.47	Tr 500	157.81	14.40	15.83		15.90	0.003097	1.78	148.17	193.52	0.54
Cuggiani-med2	2400.5	Tr 50	93.12	13.80	15.36		15.41	0.003191	1.69	100.01	165.41	0.53
Cuggiani-med2	2400.5	Tr 100	112.26	13.80	15.46		15.51	0.002882	1.71	116.32	167.85	0.51
Cuggiani-med2	2400.5	Tr 200	131.72	13.80	15.55		15.60	0.002708	1.74	131.35	170.07	0.50
Cuggiani-med2	2400.5	Tr 500	157.81	13.80	15.80		15.84	0.001566	1.49	174.13	172.65	0.39
Cuggiani-med2	2375.61	Tr 50	93.12	14.10	15.25		15.31	0.004951	1.57	85.51	149.08	0.58
Cuggiani-med2	2375.61	Tr 100	112.26	14.10	15.36		15.42	0.004669	1.61	102.77	170.73	0.57
Cuggiani-med2	2375.61	Tr 200	131.72	14.10	15.46		15.52	0.003925	1.57	120.49	175.26	0.53
Cuggiani-med2	2375.61	Tr 500	157.81	14.10	15.76		15.80	0.001923	1.27	179.24	221.10	0.38
Cuggiani-med2	2350.48	Tr 50	93.12	13.20	15.13		15.20	0.004048	1.78	83.50	129.61	0.51
Cuggiani-med2	2350.48	Tr 100	112.26	13.20	15.25		15.32	0.003489	1.71	99.50	136.83	0.47
Cuggiani-med2	2350.48	Tr 200	131.72	13.20	15.33		15.41	0.005303	2.14	111.49	198.65	0.59
Cuggiani-med2	2350.48	Tr 500	157.81	13.20	15.72		15.75	0.001522	1.17	193.57	228.98	0.33

HEC-RAS Plan: Art_8_comma 2 (Continued)

Reach	River Sta	Profile	Q Total (m ³ /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 (m ²)	Top Width (m)	Froude # Chl
Cuggiani-med2	2326.11	Tr 50	93.12	13.20	15.06		15.11	0.003064	1.64	98.21	171.56	0.48
Cuggiani-med2	2326.11	Tr 100	112.26	13.20	15.20		15.24	0.002432	1.50	123.40	191.74	0.43
Cuggiani-med2	2326.11	Tr 200	131.72	13.20	15.26		15.31	0.002608	1.57	135.66	200.84	0.45
Cuggiani-med2	2326.11	Tr 500	157.81	13.20	15.70		15.72	0.000889	0.97	236.86	250.96	0.27
Cuggiani-med2	2300.46	Tr 50	93.12	13.20	14.95		15.02	0.003471	1.88	88.07	145.39	0.57
Cuggiani-med2	2300.46	Tr 100	112.26	13.20	15.12		15.18	0.002397	1.62	120.63	205.85	0.48
Cuggiani-med2	2300.46	Tr 200	131.72	13.20	15.18		15.24	0.002597	1.74	132.31	211.08	0.50
Cuggiani-med2	2300.46	Tr 500	157.81	13.20	15.68		15.70	0.000732	1.16	247.86	248.24	0.28
Cuggiani-med2	2275.29	Tr 50	93.12	13.20	14.86		14.94	0.003327	1.88	87.65	137.61	0.57
Cuggiani-med2	2275.29	Tr 100	112.26	13.20	15.01		15.10	0.003818	2.20	110.08	215.96	0.62
Cuggiani-med2	2275.29	Tr 200	131.72	13.20	15.07		15.16	0.003977	2.30	121.53	218.77	0.64
Cuggiani-med2	2275.29	Tr 500	157.81	13.20	15.66		15.68	0.000625	1.17	262.96	252.20	0.27
Cuggiani-med2	2250.44	Tr 50	93.12	12.60	14.68	14.60	14.83	0.005420	2.58	70.81	124.74	0.69
Cuggiani-med2	2250.44	Tr 100	112.26	12.60	14.74	14.66	14.95	0.008204	3.26	79.88	177.77	0.86
Cuggiani-med2	2250.44	Tr 200	131.72	12.60	14.98		15.07	0.003231	2.26	123.85	185.38	0.55
Cuggiani-med2	2250.44	Tr 500	157.81	12.60	15.65		15.67	0.000471	1.08	292.50	263.81	0.22
Cuggiani-med2	2224.52	Tr 50	93.12	12.90	14.46	14.46	14.63	0.010603	2.98	64.92	167.85	0.94
Cuggiani-med2	2224.52	Tr 100	112.26	12.90	14.51	14.51	14.70	0.011168	3.13	73.37	174.14	0.97
Cuggiani-med2	2224.52	Tr 200	131.72	12.90	14.96		15.00	0.001726	1.46	163.73	221.92	0.40
Cuggiani-med2	2224.52	Tr 500	157.81	12.90	15.64		15.66	0.000304	0.79	339.32	267.22	0.18
Cuggiani-med2	2200.42	Tr 50	93.12	12.00	14.37		14.43	0.002021	1.84	111.66	188.62	0.44
Cuggiani-med2	2200.42	Tr 100	112.26	12.00	14.49		14.55	0.001927	1.88	137.25	208.10	0.44
Cuggiani-med2	2200.42	Tr 200	131.72	12.00	14.95		14.97	0.000529	1.14	236.96	226.15	0.24
Cuggiani-med2	2200.42	Tr 500	157.81	12.00	15.64		15.65	0.000149	0.72	398.86	251.30	0.13
Cuggiani-med2	2176.93	Tr 50	93.12	12.30	14.15	14.15	14.33	0.007315	2.89	72.37	170.49	0.84
Cuggiani-med2	2176.93	Tr 100	112.26	12.30	14.42		14.50	0.002632	1.99	122.96	202.37	0.52
Cuggiani-med2	2176.93	Tr 200	131.72	12.30	14.93		14.96	0.000557	1.11	235.56	233.63	0.25
Cuggiani-med2	2176.93	Tr 500	157.81	12.30	15.64		15.65	0.000153	0.71	408.95	261.45	0.14
Cuggiani-med2	2150.4	Tr 50	93.12	12.30	14.09		14.15	0.002419	1.67	107.70	175.02	0.49
Cuggiani-med2	2150.4	Tr 100	112.26	12.30	14.41		14.44	0.001075	1.30	172.74	225.63	0.34
Cuggiani-med2	2150.4	Tr 200	131.72	12.30	14.93		14.94	0.000288	0.82	295.89	244.36	0.18
Cuggiani-med2	2150.4	Tr 500	157.81	12.30	15.64		15.64	0.000098	0.58	472.04	262.93	0.11
Cuggiani-med2	2125.63	Tr 50	93.12	12.15	14.04		14.09	0.002012	1.73	115.44	177.84	0.46
Cuggiani-med2	2125.63	Tr 100	112.26	12.15	14.39		14.42	0.000806	1.26	184.78	210.74	0.30
Cuggiani-med2	2125.63	Tr 200	131.72	12.15	14.92		14.94	0.000259	0.85	311.21	255.17	0.18
Cuggiani-med2	2125.63	Tr 500	157.81	12.15	15.64		15.64	0.000085	0.58	495.70	263.95	0.11
Cuggiani-med2	2100.38	Tr 50	93.12	11.40	13.99		14.05	0.001094	1.54	124.29	165.29	0.36
Cuggiani-med2	2100.38	Tr 100	112.26	11.40	14.37		14.40	0.000514	1.19	190.29	184.79	0.25
Cuggiani-med2	2100.38	Tr 200	131.72	11.40	14.91		14.93	0.000210	0.88	299.26	217.10	0.17
Cuggiani-med2	2100.38	Tr 500	157.81	11.40	15.63		15.64	0.000091	0.68	474.07	275.73	0.11
Cuggiani-med2	2075.54	Tr 50	93.12	11.70	13.96		14.02	0.001663	1.72	112.58	150.33	0.42
Cuggiani-med2	2075.54	Tr 100	112.26	11.70	14.36		14.39	0.000666	1.25	173.53	159.08	0.27
Cuggiani-med2	2075.54	Tr 200	131.72	11.70	14.91		14.92	0.000258	0.91	264.75	171.49	0.18
Cuggiani-med2	2075.54	Tr 500	157.81	11.70	15.63		15.64	0.000113	0.70	392.79	185.35	0.12
Cuggiani-med2	2050.36	Tr 50	93.12	11.40	13.93		13.98	0.001038	1.37	117.82	132.10	0.34
Cuggiani-med2	2050.36	Tr 100	112.26	11.40	14.34		14.37	0.000507	1.11	174.10	145.51	0.25
Cuggiani-med2	2050.36	Tr 200	131.72	11.40	14.90		14.92	0.000220	0.86	259.14	157.76	0.17
Cuggiani-med2	2050.36	Tr 500	157.81	11.40	15.62		15.63	0.000106	0.70	380.75	177.43	0.12
Cuggiani-med2	2023.17	Tr 50	93.12	11.10	13.91		13.96	0.000698	1.31	128.69	132.28	0.29
Cuggiani-med2	2023.17	Tr 100	112.26	11.10	14.33		14.36	0.000375	1.09	188.12	151.96	0.22
Cuggiani-med2	2023.17	Tr 200	131.72	11.10	14.89		14.91	0.000178	0.86	281.69	176.64	0.16
Cuggiani-med2	2023.17	Tr 500	157.81	11.10	15.62		15.63	0.000084	0.68	415.78	191.37	0.11
Cuggiani-med2	2000.34	Tr 50	93.12	10.80	13.91		13.94	0.000463	1.04	152.91	149.13	0.23
Cuggiani-med2	2000.34	Tr 100	112.26	10.80	14.33		14.35	0.000264	0.89	219.21	168.54	0.18
Cuggiani-med2	2000.34	Tr 200	131.72	10.80	14.89		14.91	0.000126	0.71	318.98	181.25	0.13
Cuggiani-med2	2000.34	Tr 500	157.81	10.80	15.62		15.63	0.000064	0.58	454.37	192.84	0.10
Cuggiani-med2	1974.98	Tr 50	93.12	10.80	13.92		13.93	0.000216	0.84	224.81	184.30	0.17
Cuggiani-med2	1974.98	Tr 100	112.26	10.80	14.33		14.34	0.000132	0.72	304.05	196.57	0.13
Cuggiani-med2	1974.98	Tr 200	131.72	10.80	14.90		14.90	0.000070	0.59	418.18	206.33	0.10
Cuggiani-med2	1974.98	Tr 500	157.81	10.80	15.62		15.63	0.000039	0.50	572.53	216.82	0.08
Cuggiani-med2	1950.32	Tr 50	93.12	10.20	13.91		13.92	0.000111	0.60	274.15	197.70	0.12
Cuggiani-med2	1950.32	Tr 100	112.26	10.20	14.33		14.34	0.000076	0.55	358.12	207.18	0.10
Cuggiani-med2	1950.32	Tr 200	131.72	10.20	14.90		14.90	0.000045	0.47	478.34	217.41	0.08
Cuggiani-med2	1950.32	Tr 500	157.81	10.20	15.62		15.62	0.000027	0.41	639.85	228.00	0.06
Cuggiani-med2	1927.13	Tr 50	93.12	10.20	13.91		13.92	0.000081	0.54	318.94	202.98	0.10
Cuggiani-med2	1927.13	Tr 100	112.26	10.20	14.33		14.33	0.000056	0.49	403.58	204.96	0.09
Cuggiani-med2	1927.13	Tr 200	131.72	10.20	14.90		14.90	0.000036	0.44	523.84	219.30	0.07
Cuggiani-med2	1927.13	Tr 500	157.81	10.20	15.62		15.62	0.000023	0.39	686.71	230.38	0.06
Cuggiani-med2	1900.3	Tr 50	93.12	9.90	13.91		13.92	0.000075	0.54	328.19	205.10	0.10
Cuggiani-med2	1900.3	Tr 100	112.26	9.90	14.33		14.33	0.000054	0.49	414.76	211.12	0.08
Cuggiani-med2	1900.3	Tr 200	131.72	9.90	14.90		14.90	0.000033	0.43	536.47	218.03	0.07
Cuggiani-med2	1900.3	Tr 500	157.81	9.90	15.62		15.62	0.000021	0.39	697.87	227.40	0.06
Cuggiani-med2	1875.18	Tr 50	93.12	10.20	13.91		13.92	0.000050	0.42	376.24	201.77	0.08
Cuggiani-med2	1875.18	Tr 100	112.26	10.20	14.33		14.33	0.000039	0.41	461.56	207.60	0.07
Cuggiani-med2	1875.18	Tr 200	131.72	10.20	14.90		14.90	0.000026	0.37	581.46	215.72	0.06
Cuggiani-med2	1875.18	Tr 500	157.81	10.20	15.62		15.62	0.000018	0.34	741.65	225.07	0.05

Reach	River Sta	Profile	Q Total (m ³ /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 (m ²)	Top Width (m)	Froude # Chl
Cuggiani-med2	1850.28	Tr 50	93.12	9.90	13.91		13.92	0.000022	0.34	477.92	206.17	0.06
Cuggiani-med2	1850.28	Tr 100	112.26	9.90	14.33		14.33	0.000019	0.34	564.06	208.11	0.05
Cuggiani-med2	1850.28	Tr 200	131.72	9.90	14.90		14.90	0.000014	0.33	683.05	212.09	0.05
Cuggiani-med2	1850.28	Tr 500	157.81	9.90	15.62		15.62	0.000011	0.31	838.41	216.79	0.04
Cuggiani-med2	1823.94	Tr 50	93.12	9.30	13.91	11.15	13.91	0.000014	0.30	548.06	218.42	0.05
Cuggiani-med2	1823.94	Tr 100	112.26	9.30	14.33	11.24	14.33	0.000014	0.31	641.09	232.36	0.05
Cuggiani-med2	1823.94	Tr 200	131.72	9.30	14.90	11.31	14.90	0.000011	0.30	776.80	243.78	0.04
Cuggiani-med2	1823.94	Tr 500	157.81	9.30	15.62	11.38	15.62	0.000008	0.28	956.61	252.40	0.04
Cuggiani-med2	1800.26	Tr 50	93.12	9.00	13.91		13.91	0.000012	0.27	602.39	232.57	0.04
Cuggiani-med2	1800.26	Tr 100	112.26	9.00	14.33		14.33	0.000012	0.29	706.38	266.81	0.04
Cuggiani-med2	1800.26	Tr 200	131.72	9.00	14.90		14.90	0.000009	0.28	873.52	322.24	0.04
Cuggiani-med2	1800.26	Tr 500	157.81	9.00	15.62		15.62	0.000007	0.27	1129.39	364.70	0.04
Cuggiani-med2	1785.69	Tr 50	93.12	9.30	13.91	12.29	13.91	0.000018	0.32	547.03	259.93	0.05
Cuggiani-med2	1785.69	Tr 100	112.26	9.30	14.33	12.68	14.33	0.000015	0.32	664.34	304.33	0.05
Cuggiani-med2	1785.69	Tr 200	131.72	9.30	14.89	13.05	14.90	0.000012	0.30	853.03	348.15	0.04
Cuggiani-med2	1785.69	Tr 500	157.81	9.30	15.62	13.50	15.62	0.000008	0.27	1113.05	367.98	0.04
Cuggiani-med2	1778.16 SC_0029 Cugg.11	Bridge										
Cuggiani-med2	1771.01	Tr 50	93.12	9.00	12.12	12.12	13.58	0.007500	5.34	17.44	169.56	1.00
Cuggiani-med2	1771.01	Tr 100	112.26	9.00	12.51	12.51	14.16	0.007183	5.68	19.76	186.74	1.00
Cuggiani-med2	1771.01	Tr 200	131.72	9.00	12.88	12.88	14.71	0.006944	6.00	21.97	218.62	1.00
Cuggiani-med2	1771.01	Tr 500	157.81	9.00	13.35	13.35	15.41	0.006671	6.37	24.78	258.74	1.00
Cuggiani-med2	1750.24	Tr 50	93.12	7.80	10.44	10.44	10.79	0.004913	3.14	53.44	85.00	0.73
Cuggiani-med2	1750.24	Tr 100	112.26	7.80	10.58	10.58	10.91	0.004575	3.17	66.53	99.13	0.71
Cuggiani-med2	1750.24	Tr 200	131.72	7.80	10.66	10.66	11.02	0.004972	3.39	74.32	104.70	0.75
Cuggiani-med2	1750.24	Tr 500	157.81	7.80	10.78	10.78	11.14	0.004987	3.53	87.52	113.52	0.75
Cuggiani-med2	1725.5	Tr 50	93.12	8.10	10.32	10.32	10.62	0.005469	3.05	55.29	91.99	0.76
Cuggiani-med2	1725.5	Tr 100	112.26	8.10	10.40	10.40	10.73	0.005832	3.26	63.42	98.44	0.80
Cuggiani-med2	1725.5	Tr 200	131.72	8.10	10.50	10.50	10.83	0.005819	3.37	72.98	105.53	0.80
Cuggiani-med2	1725.5	Tr 500	157.81	8.10	10.61	10.61	10.96	0.005856	3.52	85.26	115.30	0.81
Cuggiani-med2	1700.22	Tr 50	93.12	7.80	10.10	10.10	10.40	0.005348	2.97	55.87	96.39	0.75
Cuggiani-med2	1700.22	Tr 100	112.26	7.80	10.16	10.16	10.51	0.006273	3.30	61.62	101.01	0.82
Cuggiani-med2	1700.22	Tr 200	131.72	7.80	10.34	10.34	10.62	0.004790	3.09	83.16	128.23	0.73
Cuggiani-med2	1700.22	Tr 500	157.81	7.80	10.42	10.42	10.73	0.005189	3.31	93.44	132.18	0.77
Cuggiani-med2	1676.13	Tr 50	93.12	7.80	9.94	9.94	10.20	0.005517	2.93	63.18	127.46	0.76
Cuggiani-med2	1676.13	Tr 100	112.26	7.80	10.04	10.04	10.29	0.005378	3.01	75.74	144.16	0.75
Cuggiani-med2	1676.13	Tr 200	131.72	7.80	10.11	10.11	10.37	0.005513	3.14	86.54	157.11	0.77
Cuggiani-med2	1676.13	Tr 500	157.81	7.80	10.19	10.19	10.46	0.005847	3.33	99.14	170.98	0.80
Cuggiani-med2	1650.2	Tr 50	93.12	7.50	9.80	9.80	10.04	0.006094	2.72	62.17	133.82	0.78
Cuggiani-med2	1650.2	Tr 100	112.26	7.50	9.88	9.88	10.12	0.006066	2.82	72.64	138.99	0.79
Cuggiani-med2	1650.2	Tr 200	131.72	7.50	9.96	9.96	10.20	0.005729	2.87	86.24	161.75	0.78
Cuggiani-med2	1650.2	Tr 500	157.81	7.50	10.03	10.03	10.29	0.006011	3.03	97.93	167.48	0.80
Cuggiani-med2	1626.29	Tr 50	93.12	7.80	9.58	9.57	9.77	0.005992	2.75	69.97	147.25	0.77
Cuggiani-med2	1626.29	Tr 100	112.26	7.80	9.65	9.63	9.84	0.006049	2.86	80.53	155.57	0.78
Cuggiani-med2	1626.29	Tr 200	131.72	7.80	9.71	9.71	9.91	0.006008	2.95	91.05	160.86	0.78
Cuggiani-med2	1626.29	Tr 500	157.81	7.80	9.81	9.81	10.00	0.005553	2.96	107.24	168.69	0.76
Cuggiani-med2	1600.18	Tr 50	93.12	7.50	9.53	9.53	9.63	0.003085	2.06	89.94	158.25	0.56
Cuggiani-med2	1600.18	Tr 100	112.26	7.50	9.59	9.59	9.70	0.003414	2.22	99.25	160.85	0.59
Cuggiani-med2	1600.18	Tr 200	131.72	7.50	9.62	9.62	9.76	0.004359	2.55	104.37	169.86	0.67
Cuggiani-med2	1600.18	Tr 500	157.81	7.50	9.73	9.73	9.87	0.003812	2.51	124.28	172.63	0.64
Cuggiani-med2	1577.83	Tr 50	93.12	7.50	9.36	9.36	9.53	0.004742	2.68	78.35	196.07	0.70
Cuggiani-med2	1577.83	Tr 100	112.26	7.50	9.42	9.42	9.60	0.004989	2.82	89.92	199.01	0.73
Cuggiani-med2	1577.83	Tr 200	131.72	7.50	9.49	9.49	9.66	0.004602	2.80	105.60	202.98	0.70
Cuggiani-med2	1577.83	Tr 500	157.81	7.50	9.67	9.67	9.79	0.003199	2.49	144.54	264.29	0.60
Cuggiani-med2	1550.16	Tr 50	93.12	6.90	9.20	9.15	9.37	0.004096	2.50	73.93	175.11	0.65
Cuggiani-med2	1550.16	Tr 100	112.26	6.90	9.25	9.21	9.45	0.004791	2.75	82.41	188.71	0.70
Cuggiani-med2	1550.16	Tr 200	131.72	6.90	9.30	9.25	9.52	0.005169	2.92	92.93	204.34	0.73
Cuggiani-med2	1550.16	Tr 500	157.81	6.90	9.36	9.28	9.65	0.006581	3.39	107.67	235.48	0.83
Cuggiani-med2	1523.28	Tr 50	93.12	6.60	9.08	9.08	9.27	0.003659	2.46	86.23	221.92	0.62
Cuggiani-med2	1523.28	Tr 100	112.26	6.60	9.16	9.16	9.33	0.003653	2.53	102.14	229.23	0.63
Cuggiani-med2	1523.28	Tr 200	131.72	6.60	9.26	9.26	9.40	0.002973	2.38	127.51	240.45	0.57
Cuggiani-med2	1523.28	Tr 500	157.81	6.60	9.34	9.34	9.48	0.003004	2.46	147.19	249.99	0.58
Cuggiani-med2	1500.14	Tr 50	93.12	6.90	8.97	8.96	9.16	0.004023	2.64	80.23	180.57	0.66
Cuggiani-med2	1500.14	Tr 100	112.26	6.90	9.00	8.98	9.23	0.005098	3.01	85.17	183.49	0.74
Cuggiani-med2	1500.14	Tr 200	131.72	6.90	9.11	9.11	9.31	0.004507	2.95	110.31	237.71	0.71
Cuggiani-med2	1500.14	Tr 500	157.81	6.90	9.17	9.17	9.39	0.004910	3.15	125.73	253.11	0.74
Cuggiani-med2	1474.71	Tr 50	93.12	6.60	8.84	8.84	9.05	0.004070	2.65	81.11	217.92	0.66
Cuggiani-med2	1474.71	Tr 100	112.26	6.60	8.93	8.93	9.11	0.003823	2.66	101.28	234.78	0.64
Cuggiani-med2	1474.71	Tr 200	131.72	6.60	8.97	8.97	9.17	0.004145	2.82	112.00	239.44	0.67
Cuggiani-med2	1474.71	Tr 500	157.81	6.60	9.05	9.05	9.25	0.004448	3.00	130.23	257.42	0.70
Cuggiani-med2	1450.12	Tr 50	93.12	6.15	8.68	8.68	8.90	0.004769	2.67	72.30	190.40	0.70
Cuggiani-med2	1450.12	Tr 100	112.26	6.15	8.78	8.78	8.98	0.004573	2.72	91.93	225.40	0.70
Cuggiani-med2	1450.12	Tr 200	131.72	6.15	8.83	8.83	9.04	0.004714	2.83	104.34	231.57	0.71
Cuggiani-med2	1450.12	Tr 500	157.81	6.15	8.94	8.94	9.13	0.004273	2.82	133.78	265.93	0.69
Cuggiani-med2	1425.77	Tr 50	93.12	6.30	8.54	8.54	8.72	0.004946	2.50	77.61	201.11	0.70
Cuggiani-med2	1425.77	Tr 100	112.26	6.30	8.60	8.60	8.81	0.005526	2.73	91.19	222.81	0.75

Reach	River Sta	Profile	Q Total (m ³ /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 (m ²)	Top Width (m)	Froude # Chl
Cuggiani-med2	1425.77	Tr 200	131.72	6.30	8.68	8.68	8.86	0.004921	2.67	108.07	225.11	0.71
Cuggiani-med2	1425.77	Tr 500	157.81	6.30	8.70	8.70	8.93	0.006449	3.08	111.85	225.62	0.82
Cuggiani-med2	1400.11	Tr 50	93.12	5.85	8.46	8.32	8.56	0.002075	1.94	107.41	233.22	0.48
Cuggiani-med2	1400.11	Tr 100	112.26	5.85	8.50		8.62	0.002451	2.15	117.43	236.81	0.52
Cuggiani-med2	1400.11	Tr 200	131.72	5.85	8.56		8.69	0.002602	2.26	131.79	242.04	0.54
Cuggiani-med2	1400.11	Tr 500	157.81	5.85	8.62		8.76	0.002833	2.42	146.87	245.27	0.57
Cuggiani-med2	1380.23	Tr 50	93.12	5.85	8.25	8.25	8.49	0.004184	2.77	76.18	203.76	0.67
Cuggiani-med2	1380.23	Tr 100	112.26	5.85	8.36	8.36	8.56	0.003553	2.66	101.98	228.22	0.62
Cuggiani-med2	1380.23	Tr 200	131.72	5.85	8.41	8.40	8.62	0.003907	2.83	112.39	231.80	0.65
Cuggiani-med2	1380.23	Tr 500	157.81	5.85	8.50		8.69	0.003581	2.80	134.48	235.80	0.63
Cuggiani-med2	1349.97	Tr 50	93.12	5.40	8.15	8.14	8.35	0.003224	2.36	81.91	218.99	0.59
Cuggiani-med2	1349.97	Tr 100	112.26	5.40	8.27		8.43	0.002738	2.27	107.76	234.72	0.55
Cuggiani-med2	1349.97	Tr 200	131.72	5.40	8.35		8.50	0.002607	2.29	127.89	246.26	0.54
Cuggiani-med2	1349.97	Tr 500	157.81	5.40	8.43		8.59	0.002808	2.44	147.51	268.83	0.57
Cuggiani-med2	1324.44	Tr 50	93.12	5.40	8.01	8.01	8.25	0.003470	2.68	75.22	177.85	0.62
Cuggiani-med2	1324.44	Tr 100	112.26	5.40	8.14	8.14	8.35	0.003073	2.64	102.14	232.27	0.59
Cuggiani-med2	1324.44	Tr 200	131.72	5.40	8.19	8.19	8.42	0.003321	2.79	115.03	241.56	0.62
Cuggiani-med2	1324.44	Tr 500	157.81	5.40	8.26	8.26	8.49	0.003662	2.99	130.21	252.08	0.65
Cuggiani-med2	1300.05	Tr 50	93.12	5.40	7.73	7.73	8.05	0.006515	2.83	53.46	118.57	0.81
Cuggiani-med2	1300.05	Tr 100	112.26	5.40	7.79	7.79	8.16	0.007451	3.12	60.24	125.84	0.87
Cuggiani-med2	1300.05	Tr 200	131.72	5.40	8.00	7.99	8.23	0.004400	2.65	99.88	217.08	0.69
Cuggiani-med2	1300.05	Tr 500	157.81	5.40	8.06	8.06	8.32	0.005015	2.90	112.13	232.46	0.74
Cuggiani-med2	1275.17	Tr 50	93.12	5.40	7.63	7.63	7.90	0.004737	2.87	62.82	120.41	0.71
Cuggiani-med2	1275.17	Tr 100	112.26	5.40	7.70	7.70	8.00	0.005191	3.09	71.97	129.38	0.75
Cuggiani-med2	1275.17	Tr 200	131.72	5.40	7.75	7.75	8.09	0.005893	3.36	78.80	135.70	0.80
Cuggiani-med2	1275.17	Tr 500	157.81	5.40	7.95	7.95	8.18	0.004108	3.01	123.25	263.08	0.68
Cuggiani-med2	1250.03	Tr 50	93.12	5.10	7.50	7.43	7.72	0.004352	2.45	65.64	140.88	0.67
Cuggiani-med2	1250.03	Tr 100	112.26	5.10	7.62	7.61	7.82	0.003819	2.43	92.44	238.44	0.64
Cuggiani-med2	1250.03	Tr 200	131.72	5.10	7.68	7.67	7.88	0.003982	2.54	106.80	252.64	0.66
Cuggiani-med2	1250.03	Tr 500	157.81	5.10	7.73	7.73	7.96	0.004541	2.78	119.60	264.66	0.71
Cuggiani-med2	1223.87	Tr 50	93.12	5.10	7.39	7.38	7.61	0.003866	2.65	73.43	176.26	0.65
Cuggiani-med2	1223.87	Tr 100	112.26	5.10	7.45	7.44	7.70	0.004449	2.91	83.48	189.86	0.70
Cuggiani-med2	1223.87	Tr 200	131.72	5.10	7.57	7.57	7.78	0.003651	2.76	114.25	282.37	0.64
Cuggiani-med2	1223.87	Tr 500	157.81	5.10	7.64	7.64	7.85	0.003818	2.89	133.58	288.83	0.66
Cuggiani-med2	1200.01	Tr 50	93.12	4.80	7.39		7.50	0.002369	1.86	103.22	269.37	0.50
Cuggiani-med2	1200.01	Tr 100	112.26	4.80	7.47		7.57	0.002339	1.91	123.57	273.33	0.50
Cuggiani-med2	1200.01	Tr 200	131.72	4.80	7.53		7.64	0.002379	1.98	141.43	284.67	0.51
Cuggiani-med2	1200.01	Tr 500	157.81	4.80	7.62		7.72	0.002275	2.01	166.81	295.96	0.50
Cuggiani-med2	1173.78	Tr 50	93.12	4.50	7.34		7.45	0.001684	1.91	115.15	262.12	0.44
Cuggiani-med2	1173.78	Tr 100	112.26	4.50	7.41		7.52	0.001800	2.02	133.08	267.07	0.46
Cuggiani-med2	1173.78	Tr 200	131.72	4.50	7.47		7.58	0.001937	2.14	148.35	271.22	0.47
Cuggiani-med2	1173.78	Tr 500	157.81	4.50	7.55		7.66	0.002019	2.24	171.36	299.27	0.49
Cuggiani-med2	1149.99	Tr 50	93.12	4.50	7.33		7.40	0.001314	1.52	131.66	266.37	0.38
Cuggiani-med2	1149.99	Tr 100	112.26	4.50	7.40		7.47	0.001437	1.63	148.77	273.14	0.40
Cuggiani-med2	1149.99	Tr 200	131.72	4.50	7.45		7.53	0.001583	1.74	163.12	278.70	0.42
Cuggiani-med2	1149.99	Tr 500	157.81	4.50	7.50		7.61	0.002085	2.04	178.30	339.88	0.49
Cuggiani-med2	1125.76	Tr 50	93.12	4.80	7.17	7.16	7.34	0.003150	2.52	94.25	247.64	0.59
Cuggiani-med2	1125.76	Tr 100	112.26	4.80	7.24	7.22	7.41	0.003284	2.63	110.87	260.02	0.61
Cuggiani-med2	1125.76	Tr 200	131.72	4.80	7.29		7.46	0.003433	2.74	125.09	264.75	0.62
Cuggiani-med2	1125.76	Tr 500	157.81	4.80	7.38		7.53	0.003263	2.75	148.32	272.30	0.61
Cuggiani-med2	1099.97	Tr 50	93.12	4.50	7.17		7.25	0.001750	1.66	123.71	286.06	0.43
Cuggiani-med2	1099.97	Tr 100	112.26	4.50	7.22		7.32	0.002069	1.84	137.98	313.43	0.47
Cuggiani-med2	1099.97	Tr 200	131.72	4.50	7.27		7.37	0.002187	1.93	153.67	316.30	0.49
Cuggiani-med2	1099.97	Tr 500	157.81	4.50	7.36	7.18	7.45	0.002036	1.93	181.89	321.39	0.48
Cuggiani-med2	1077.82	Tr 50	93.12	4.50	7.02	7.02	7.19	0.002626	2.46	102.62	281.65	0.55
Cuggiani-med2	1077.82	Tr 100	112.26	4.50	7.09	7.09	7.25	0.002697	2.54	120.88	288.36	0.56
Cuggiani-med2	1077.82	Tr 200	131.72	4.50	7.13	7.13	7.31	0.002989	2.71	133.09	292.75	0.59
Cuggiani-med2	1077.82	Tr 500	157.81	4.50	7.14	7.14	7.38	0.003935	3.13	138.16	294.56	0.68
Cuggiani-med2	1049.95	Tr 50	93.12	4.20	6.82		6.95	0.003097	2.03	98.63	266.19	0.56
Cuggiani-med2	1049.95	Tr 100	112.26	4.20	6.91		7.02	0.002740	2.00	124.32	293.09	0.54
Cuggiani-med2	1049.95	Tr 200	131.72	4.20	7.00		7.09	0.002305	1.91	150.93	296.87	0.50
Cuggiani-med2	1049.95	Tr 500	157.81	4.20	7.10		7.18	0.002058	1.88	180.13	300.96	0.47
Cuggiani-med2	1027.58	Tr 50	93.12	4.50	6.85		6.88	0.000997	1.37	159.66	259.52	0.33
Cuggiani-med2	1027.58	Tr 100	112.26	4.50	6.93		6.97	0.001014	1.43	181.53	266.51	0.34
Cuggiani-med2	1027.58	Tr 200	131.72	4.50	7.01		7.04	0.001039	1.49	201.96	273.48	0.34
Cuggiani-med2	1027.58	Tr 500	157.81	4.50	7.10		7.14	0.001074	1.56	227.28	281.88	0.35
Cuggiani-med2	999.93	Tr 50	93.12	4.50	6.84		6.86	0.000403	0.80	219.14	288.67	0.21
Cuggiani-med2	999.93	Tr 100	112.26	4.50	6.92		6.94	0.000494	0.91	242.90	317.82	0.24
Cuggiani-med2	999.93	Tr 200	131.72	4.50	7.00		7.02	0.000513	0.96	266.92	321.13	0.24
Cuggiani-med2	999.93	Tr 500	157.81	4.50	7.09		7.11	0.000539	1.02	296.21	325.12	0.25
Cuggiani-med2	965.92	Tr 50	93.12	4.20	6.84		6.85	0.000216	0.68	285.32	319.31	0.16
Cuggiani-med2	965.92	Tr 100	112.26	4.20	6.92		6.93	0.000271	0.78	310.81	344.98	0.18
Cuggiani-med2	965.92	Tr 200	131.72	4.20	6.99		7.00	0.000294	0.84	336.75	349.80	0.18
Cuggiani-med2	965.92	Tr 500	157.81	4.20	7.08		7.09	0.000322	0.90	368.50	355.62	0.19
Cuggiani-med2	941.41	Tr 50	93.12	4.20	6.81	6.36	6.84	0.000618	1.20	162.72	316.69	0.27
Cuggiani-med2	941.41	Tr 100	112.26	4.20	6.88	6.41	6.91	0.000704	1.31	177.32	322.59	0.29

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani-med2	941.41	Tr 200	131.72	4.20	6.95	6.46	6.99	0.000782	1.42	191.49	348.63	0.31
Cuggiani-med2	941.41	Tr 500	157.81	4.20	7.03	6.53	7.08	0.000875	1.53	208.76	351.13	0.33
Cuggiani-med2	933.09	SP_0039 Cugg.12	Bridge									
Cuggiani-med2	924.77	Tr 50	93.12	4.20	6.64	6.57	6.79	0.002097	2.25	93.27	250.25	0.50
Cuggiani-med2	924.77	Tr 100	112.26	4.20	6.64	6.64	6.86	0.003004	2.70	93.89	250.34	0.60
Cuggiani-med2	924.77	Tr 200	131.72	4.20	6.70	6.70	6.93	0.003244	2.85	104.62	251.87	0.62
Cuggiani-med2	924.77	Tr 500	157.81	4.20	6.77	6.77	7.02	0.003590	3.06	116.73	253.60	0.66
Cuggiani-med2	921.5	Cuggiani 13	Bridge									
Cuggiani-med2	915.41	Tr 50	93.12	3.30	5.54	5.54	5.97	0.005358	3.31	41.58	72.85	0.79
Cuggiani-med2	915.41	Tr 100	112.26	3.30	5.71	5.71	6.13	0.004847	3.35	53.30	94.07	0.76
Cuggiani-med2	915.41	Tr 200	131.72	3.30	5.84	5.84	6.26	0.004752	3.46	63.71	102.66	0.76
Cuggiani-med2	915.41	Tr 500	157.81	3.30	5.99	5.99	6.42	0.004685	3.59	76.96	112.51	0.76
Cuggiani-med2	899.89	Tr 50	93.12	3.30	5.59		5.70	0.002127	1.81	78.97	107.40	0.48
Cuggiani-med2	899.89	Tr 100	112.26	3.30	5.67		5.80	0.002385	1.98	87.78	110.46	0.51
Cuggiani-med2	899.89	Tr 200	131.72	3.30	5.75		5.89	0.002629	2.15	96.98	127.29	0.54
Cuggiani-med2	899.89	Tr 500	157.81	3.30	5.84		6.01	0.002857	2.33	108.96	131.10	0.57
Cuggiani-med2	883.33	Tr 50	93.12	3.00	5.46	5.26	5.64	0.003842	2.48	63.79	139.83	0.63
Cuggiani-med2	883.33	Tr 100	112.26	3.00	5.50	5.33	5.73	0.004798	2.82	69.80	148.35	0.71
Cuggiani-med2	883.33	Tr 200	131.72	3.00	5.55	5.52	5.82	0.005551	3.09	77.05	158.01	0.76
Cuggiani-med2	883.33	Tr 500	157.81	3.00	5.62	5.62	5.93	0.006309	3.38	87.50	170.99	0.82
Cuggiani-med2	867.13	Tr 50	93.12	3.00	5.47		5.57	0.002256	1.95	102.41	207.53	0.48
Cuggiani-med2	867.13	Tr 100	112.26	3.00	5.54		5.64	0.002445	2.08	115.41	208.11	0.50
Cuggiani-med2	867.13	Tr 200	131.72	3.00	5.61		5.71	0.002495	2.15	129.60	208.75	0.51
Cuggiani-med2	867.13	Tr 500	157.81	3.00	5.67		5.79	0.002768	2.32	142.67	209.33	0.54
Cuggiani-med2	849.86	Tr 50	93.12	2.70	5.45		5.53	0.001901	1.84	110.80	212.25	0.45
Cuggiani-med2	849.86	Tr 100	112.26	2.70	5.51		5.60	0.002119	1.99	123.11	213.34	0.48
Cuggiani-med2	849.86	Tr 200	131.72	2.70	5.57		5.67	0.002194	2.07	137.25	214.57	0.49
Cuggiani-med2	849.86	Tr 500	157.81	2.70	5.63		5.74	0.002510	2.26	149.31	215.62	0.53
Cuggiani-med2	828.07	Tr 50	93.12	2.70	5.39		5.49	0.002141	2.04	108.80	220.37	0.48
Cuggiani-med2	828.07	Tr 100	112.26	2.70	5.36		5.53	0.003682	2.66	101.39	219.85	0.62
Cuggiani-med2	828.07	Tr 200	131.72	2.70	5.42		5.60	0.003938	2.79	115.12	228.62	0.65
Cuggiani-med2	828.07	Tr 500	157.81	2.70	5.50		5.67	0.003807	2.80	134.09	229.77	0.64
Cuggiani-med2	799.84	Tr 50	93.12	3.30	5.36		5.43	0.001508	1.75	126.12	230.78	0.41
Cuggiani-med2	799.84	Tr 100	112.26	3.30	5.24	5.24	5.43	0.003986	2.71	98.14	224.86	0.67
Cuggiani-med2	799.84	Tr 200	131.72	3.30	5.30	5.29	5.48	0.004106	2.81	111.21	227.64	0.68
Cuggiani-med2	799.84	Tr 500	157.81	3.30	5.37		5.56	0.004154	2.91	128.24	231.22	0.69
Cuggiani-med2	774.78	Tr 50	93.12	2.40	4.71	4.71	5.30	0.009612	3.83	37.24	61.12	1.00
Cuggiani-med2	774.78	Tr 100	112.26	2.40	5.05	5.05	5.29	0.003957	2.82	87.31	200.95	0.66
Cuggiani-med2	774.78	Tr 200	131.72	2.40	5.10	5.09	5.36	0.004321	3.00	98.30	210.48	0.70
Cuggiani-med2	774.78	Tr 500	157.81	2.40	5.21	5.21	5.45	0.003968	2.99	124.78	235.59	0.67
Cuggiani-med2	749.82	Tr 50	93.12	2.40	4.90	4.90	5.10	0.002808	2.45	88.30	223.84	0.57
Cuggiani-med2	749.82	Tr 100	112.26	2.40	5.04		5.17	0.002198	2.26	117.93	228.79	0.51
Cuggiani-med2	749.82	Tr 200	131.72	2.40	5.11		5.25	0.002180	2.31	135.43	231.84	0.51
Cuggiani-med2	749.82	Tr 500	157.81	2.40	5.18		5.32	0.002409	2.48	150.76	235.34	0.54
Cuggiani-med2	729.03	Tr 50	93.12	2.70	4.79	4.71	5.00	0.003815	2.56	69.00	134.58	0.65
Cuggiani-med2	729.03	Tr 100	112.26	2.70	4.92	4.92	5.12	0.003538	2.60	96.92	231.94	0.63
Cuggiani-med2	729.03	Tr 200	131.72	2.70	4.95	4.95	5.18	0.004054	2.82	105.67	233.11	0.68
Cuggiani-med2	729.03	Tr 500	157.81	2.70	5.05	5.02	5.25	0.003693	2.79	128.80	236.15	0.66
Cuggiani-med2	699.8	Tr 50	93.12	2.70	4.78		4.89	0.002029	1.94	97.75	197.22	0.48
Cuggiani-med2	699.8	Tr 100	112.26	2.70	4.85		4.97	0.002282	2.11	111.38	203.71	0.51
Cuggiani-med2	699.8	Tr 200	131.72	2.70	4.92		5.05	0.002283	2.17	127.13	205.55	0.52
Cuggiani-med2	699.8	Tr 500	157.81	2.70	5.02		5.14	0.002279	2.25	146.82	210.12	0.52
Cuggiani-valle	674.31	Tr 50	97.81	2.10	4.55	4.32	4.76	0.003126	2.43	82.05	185.64	0.59
Cuggiani-valle	674.31	Tr 100	117.75	2.10	4.64		4.83	0.003017	2.47	99.04	189.55	0.59
Cuggiani-valle	674.31	Tr 200	138.01	2.10	4.73		4.91	0.002969	2.53	114.90	191.52	0.59
Cuggiani-valle	674.31	Tr 500	165.15	2.10	4.82		5.01	0.002935	2.60	134.07	197.77	0.59
Cuggiani-valle	649.78	Tr 50	97.81	1.65	4.58		4.67	0.001327	1.72	117.60	185.90	0.39
Cuggiani-valle	649.78	Tr 100	117.75	1.65	4.66		4.75	0.001429	1.83	132.40	187.03	0.41
Cuggiani-valle	649.78	Tr 200	138.01	1.65	4.73		4.83	0.001510	1.93	146.38	187.71	0.43
Cuggiani-valle	649.78	Tr 500	165.15	1.65	4.82		4.93	0.001644	2.07	163.12	192.81	0.45
Cuggiani-valle	623.41	Tr 50	97.81	1.95	4.59		4.63	0.000726	1.26	159.32	185.06	0.29
Cuggiani-valle	623.41	Tr 100	117.75	1.95	4.67		4.71	0.000812	1.37	173.73	185.76	0.31
Cuggiani-valle	623.41	Tr 200	138.01	1.95	4.74		4.79	0.000888	1.47	187.28	186.37	0.33
Cuggiani-valle	623.41	Tr 500	165.15	1.95	4.83		4.88	0.000997	1.60	203.64	189.14	0.35
Cuggiani-valle	599.76	Tr 50	97.81	1.95	4.56		4.61	0.000841	1.45	147.41	192.20	0.32
Cuggiani-valle	599.76	Tr 100	117.75	1.95	4.63		4.69	0.000943	1.57	161.71	192.78	0.34
Cuggiani-valle	599.76	Tr 200	138.01	1.95	4.70		4.76	0.001032	1.68	175.21	193.25	0.36
Cuggiani-valle	599.76	Tr 500	165.15	1.95	4.79		4.85	0.001144	1.81	191.47	193.78	0.38
Cuggiani-valle	584.15	Tr 50	97.81	1.95	4.53		4.59	0.000941	1.58	138.36	193.43	0.34
Cuggiani-valle	584.15	Tr 100	117.75	1.95	4.61		4.67	0.001065	1.71	152.14	194.02	0.36
Cuggiani-valle	584.15	Tr 200	138.01	1.95	4.67		4.74	0.001173	1.83	165.24	194.60	0.38
Cuggiani-valle	584.15	Tr 500	165.15	1.95	4.75		4.83	0.001308	1.98	180.99	195.33	0.41
Cuggiani-valle	567.08	Tr 50	97.81	1.95	4.43	4.35	4.56	0.002752	2.34	94.14	202.48	0.56
Cuggiani-valle	567.08	Tr 100	117.75	1.95	4.49	4.41	4.63	0.003018	2.51	104.60	203.04	0.59
Cuggiani-valle	567.08	Tr 200	138.01	1.95	4.55	4.47	4.71	0.003203	2.64	114.97	203.52	0.61

Reach	River Sta	Profile	Q Total (m ³ /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 (m ²)	Top Width (m)	Froude # Chl
Cuggiani-valle	567.08	Tr 500	165.15	1.95	4.62	4.52	4.79	0.003494	2.83	126.66	204.05	0.64
Cuggiani-valle	558.8	SC_0025 Cugg.14	Bridge									
Cuggiani-valle	549.74	Tr 50	97.81	2.10	4.23	4.23	4.45	0.002968	2.53	80.90	201.03	0.59
Cuggiani-valle	549.74	Tr 100	117.75	2.10	4.30	4.30	4.53	0.003213	2.70	92.14	201.95	0.62
Cuggiani-valle	549.74	Tr 200	138.01	2.10	4.36	4.36	4.60	0.003546	2.89	101.05	202.70	0.66
Cuggiani-valle	549.74	Tr 500	165.15	2.10	4.43	4.43	4.70	0.003846	3.09	112.98	203.89	0.69
Cuggiani-valle	536.69	Tr 50	97.81	1.80	4.08		4.12	0.000919	1.34	134.80	217.05	0.32
Cuggiani-valle	536.69	Tr 100	117.75	1.80	4.17		4.22	0.000970	1.43	155.11	218.07	0.34
Cuggiani-valle	536.69	Tr 200	138.01	1.80	4.25		4.31	0.001023	1.51	173.75	223.81	0.35
Cuggiani-valle	536.69	Tr 500	165.15	1.80	4.40		4.45	0.000947	1.52	206.37	225.95	0.34
Cuggiani-valle	524.15	Tr 50	97.81	1.80	4.08		4.11	0.000468	0.97	175.89	236.30	0.23
Cuggiani-valle	524.15	Tr 100	117.75	1.80	4.18		4.20	0.000514	1.05	197.90	237.39	0.25
Cuggiani-valle	524.15	Tr 200	138.01	1.80	4.26		4.29	0.000559	1.13	218.15	242.81	0.26
Cuggiani-valle	524.15	Tr 500	165.15	1.80	4.40		4.44	0.000544	1.17	253.10	244.17	0.26
Cuggiani-valle	512.78	Tr 50	97.81	1.65	4.05		4.10	0.000966	1.36	132.13	210.14	0.33
Cuggiani-valle	512.78	Tr 100	117.75	1.65	4.14		4.19	0.001048	1.47	151.35	214.06	0.35
Cuggiani-valle	512.78	Tr 200	138.01	1.65	4.22		4.28	0.001128	1.57	169.04	222.38	0.36
Cuggiani-valle	512.78	Tr 500	165.15	1.65	4.37		4.43	0.001029	1.57	202.19	224.63	0.35
Cuggiani-valle	499.72	Tr 50	97.81	2.10	4.03		4.08	0.000926	1.29	120.83	179.53	0.33
Cuggiani-valle	499.72	Tr 100	117.75	2.10	4.12		4.18	0.001110	1.46	136.88	193.90	0.36
Cuggiani-valle	499.72	Tr 200	138.01	2.10	4.19		4.26	0.001205	1.57	152.01	195.97	0.38
Cuggiani-valle	499.72	Tr 500	165.15	2.10	4.34		4.41	0.001133	1.61	181.85	203.56	0.37
Cuggiani-valle	487.59	Tr 50	97.81	1.95	4.02		4.07	0.000949	1.37	121.04	170.16	0.33
Cuggiani-valle	487.59	Tr 100	117.75	1.95	4.10		4.17	0.001159	1.56	135.34	178.68	0.37
Cuggiani-valle	487.59	Tr 200	138.01	1.95	4.18		4.25	0.001276	1.68	148.93	179.46	0.39
Cuggiani-valle	487.59	Tr 500	165.15	1.95	4.33		4.40	0.001225	1.73	175.60	181.72	0.38
Cuggiani-valle	474.47	Tr 50	97.81	2.10	3.78	3.78	4.03	0.005419	2.98	62.94	141.58	0.78
Cuggiani-valle	474.47	Tr 100	117.75	2.10	3.87	3.87	4.12	0.005473	3.10	75.24	149.15	0.79
Cuggiani-valle	474.47	Tr 200	138.01	2.10	4.00		4.21	0.004366	2.93	95.88	156.40	0.72
Cuggiani-valle	474.47	Tr 500	165.15	2.10	4.20		4.36	0.003194	2.70	129.02	168.52	0.62
Cuggiani-valle	462.55	Tr 50	97.81	1.80	3.74		3.86	0.002467	2.08	80.51	121.87	0.53
Cuggiani-valle	462.55	Tr 100	117.75	1.80	3.90		4.01	0.002134	2.06	102.03	139.71	0.50
Cuggiani-valle	462.55	Tr 200	138.01	1.80	4.03		4.15	0.002023	2.11	122.48	151.23	0.49
Cuggiani-valle	462.55	Tr 500	165.15	1.80	4.22		4.32	0.001707	2.06	150.08	153.22	0.46
Cuggiani-valle	449.54	Tr 50	97.81	1.65	3.72		3.82	0.002337	1.82	85.21	119.67	0.50
Cuggiani-valle	449.54	Tr 100	117.75	1.65	3.88		3.98	0.002050	1.83	105.87	128.93	0.48
Cuggiani-valle	449.54	Tr 200	138.01	1.65	4.02		4.12	0.001840	1.84	124.06	131.79	0.46
Cuggiani-valle	449.54	Tr 500	165.15	1.65	4.20		4.29	0.001616	1.85	147.78	134.18	0.44
Cuggiani-valle	436.22	Tr 50	97.81	1.80	3.72		3.78	0.001520	1.42	104.61	109.76	0.40
Cuggiani-valle	436.22	Tr 100	117.75	1.80	3.89		3.95	0.001361	1.46	122.70	112.44	0.38
Cuggiani-valle	436.22	Tr 200	138.01	1.80	4.02		4.09	0.001301	1.51	138.20	114.39	0.38
Cuggiani-valle	436.22	Tr 500	165.15	1.80	4.20		4.27	0.001238	1.58	158.44	117.50	0.38
Cuggiani-valle	413.57	Tr 50	97.81	1.65	3.65		3.74	0.001795	1.77	89.83	90.60	0.45
Cuggiani-valle	413.57	Tr 100	117.75	1.65	3.82		3.91	0.001635	1.80	105.10	92.63	0.44
Cuggiani-valle	413.57	Tr 200	138.01	1.65	3.96		4.05	0.001603	1.88	117.74	94.23	0.44
Cuggiani-valle	413.57	Tr 500	165.15	1.65	4.13		4.23	0.001550	1.96	134.29	96.19	0.44
Cuggiani-valle	399.71	Tr 50	97.81	1.95	3.60		3.71	0.002802	1.95	76.96	85.73	0.54
Cuggiani-valle	399.71	Tr 100	117.75	1.95	3.77		3.88	0.002412	1.96	91.84	87.96	0.52
Cuggiani-valle	399.71	Tr 200	138.01	1.95	3.91		4.02	0.002291	2.03	103.95	89.68	0.51
Cuggiani-valle	399.71	Tr 500	165.15	1.95	4.08		4.21	0.002156	2.11	119.82	92.54	0.50
Cuggiani-valle	386.81	Tr 50	97.81	2.25	3.57		3.67	0.003264	1.66	72.32	84.09	0.56
Cuggiani-valle	386.81	Tr 100	117.75	2.25	3.74		3.85	0.002611	1.67	87.55	87.47	0.51
Cuggiani-valle	386.81	Tr 200	138.01	2.25	3.88		3.99	0.002393	1.74	99.80	90.19	0.50
Cuggiani-valle	386.81	Tr 500	165.15	2.25	4.06		4.18	0.002156	1.80	116.00	93.08	0.49
Cuggiani-valle	369.27	Tr 50	97.81	1.35	3.54		3.62	0.001705	1.65	94.77	107.13	0.43
Cuggiani-valle	369.27	Tr 100	117.75	1.35	3.73		3.81	0.001427	1.63	115.22	110.28	0.40
Cuggiani-valle	369.27	Tr 200	138.01	1.35	3.87		3.95	0.001346	1.67	131.17	112.12	0.39
Cuggiani-valle	369.27	Tr 500	165.15	1.35	4.06		4.14	0.001254	1.72	151.82	114.30	0.38
Cuggiani-valle	349.46	Tr 50	97.81	1.05	3.40	3.10	3.56	0.004086	2.25	62.61	74.50	0.63
Cuggiani-valle	349.46	Tr 100	117.75	1.05	3.62	3.21	3.76	0.003508	2.14	79.59	86.93	0.59
Cuggiani-valle	349.46	Tr 200	138.01	1.05	3.76	3.32	3.91	0.003184	2.15	92.84	90.66	0.57
Cuggiani-valle	349.46	Tr 500	165.15	1.05	3.95	3.48	4.09	0.002845	2.15	110.57	96.07	0.55
Cuggiani-valle	317.59	Tr 50	97.81	0.90	3.37	2.75	3.47	0.001544	1.77	80.94	63.97	0.43
Cuggiani-valle	317.59	Tr 100	117.75	0.90	3.57	2.85	3.68	0.001471	1.85	94.35	71.41	0.42
Cuggiani-valle	317.59	Tr 200	138.01	0.90	3.71	2.94	3.83	0.001518	1.97	104.82	75.70	0.43
Cuggiani-valle	317.59	Tr 500	165.15	0.90	3.90	3.06	4.03	0.001527	2.09	120.98	93.43	0.44
Cuggiani-valle	299.46	Tr 50	97.81	1.05	3.32	2.76	3.44	0.001718	1.90	75.57	75.50	0.45
Cuggiani-valle	299.46	Tr 100	117.75	1.05	3.53	2.87	3.65	0.001536	1.94	92.30	84.06	0.44
Cuggiani-valle	299.46	Tr 200	138.01	1.05	3.64	2.96	3.80	0.001931	2.25	101.69	89.71	0.49
Cuggiani-valle	299.46	Tr 500	165.15	1.05	3.83	3.07	4.00	0.001855	2.33	120.00	99.02	0.49
Cuggiani-valle	288.87	Tr 50	97.81	1.05	3.27	2.71	3.42	0.002150	2.05	67.37	70.95	0.50
Cuggiani-valle	288.87	Tr 100	117.75	1.05	3.49	2.86	3.63	0.001901	2.09	83.53	79.39	0.48
Cuggiani-valle	288.87	Tr 200	138.01	1.05	3.61	2.97	3.78	0.002026	2.25	93.84	84.57	0.50
Cuggiani-valle	288.87	Tr 500	165.15	1.05	3.75	3.10	3.97	0.002530	2.63	106.31	96.29	0.57
Cuggiani-valle	275.59	Tr 50	97.81	1.05	3.22	2.67	3.39	0.002270	2.06	60.95	65.45	0.51

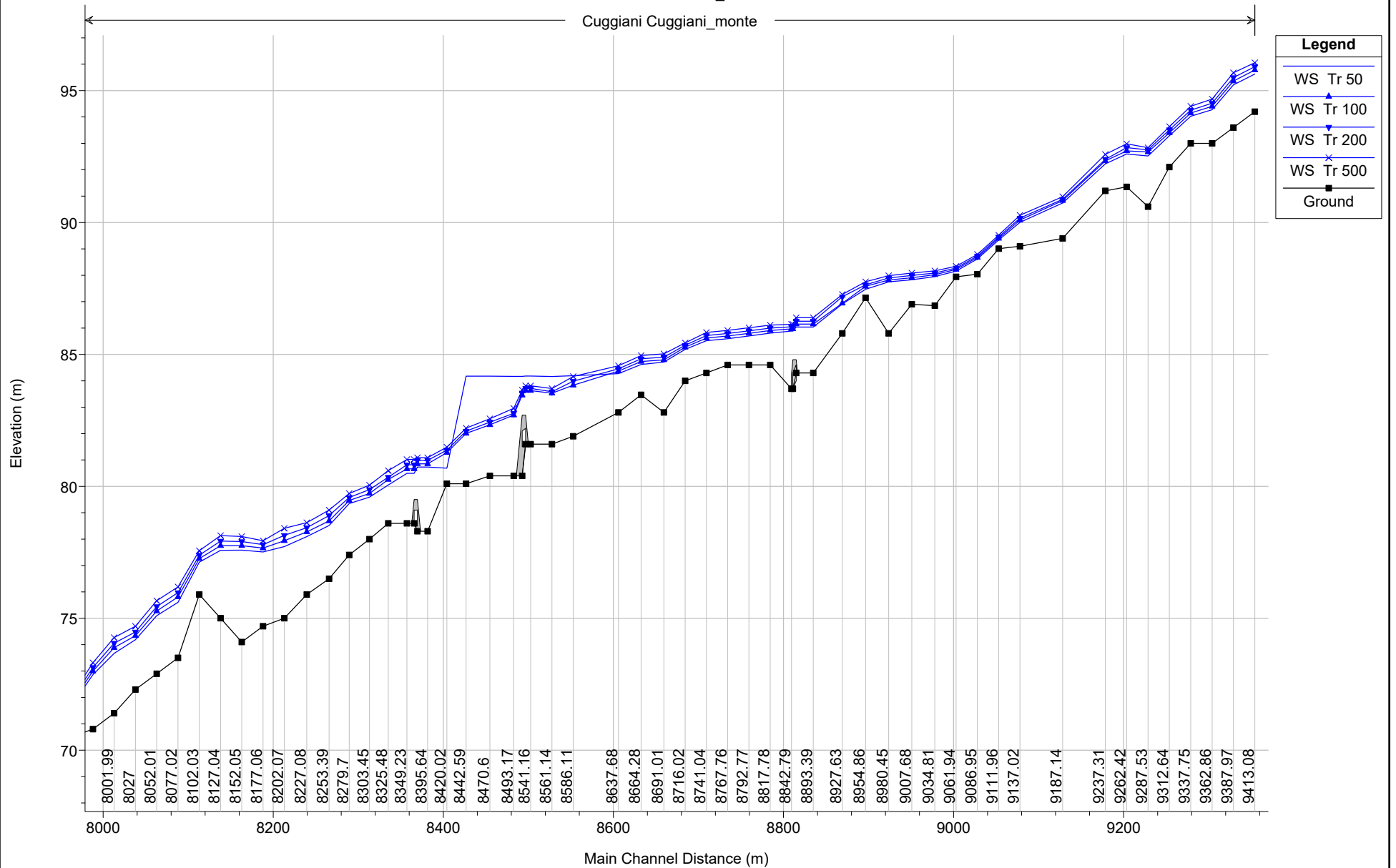
HEC-RAS Plan: Art_8_comma 2 (Continued)

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
Cuggiani-valle	275.59	Tr 100	117.75	1.05	3.36	2.79	3.59	0.002884	2.44	70.43	74.63	0.58
Cuggiani-valle	275.59	Tr 200	138.01	1.05	3.50	2.91	3.74	0.002764	2.52	81.05	76.50	0.58
Cuggiani-valle	275.59	Tr 500	165.15	1.05	3.66	3.06	3.92	0.002736	2.65	94.23	82.34	0.58
Cuggiani-valle	261.6	Tr 50	97.81	0.90	3.17	2.64	3.35	0.002444	2.47	68.86	67.54	0.55
Cuggiani-valle	261.6	Tr 100	117.75	0.90	3.36	2.78	3.54	0.002245	2.51	81.97	71.02	0.54
Cuggiani-valle	261.6	Tr 200	138.01	0.90	3.49	2.90	3.69	0.002265	2.63	91.79	72.75	0.54
Cuggiani-valle	261.6	Tr 500	165.15	0.90	3.66	3.02	3.87	0.002361	2.80	104.16	77.42	0.56
Cuggiani-valle	249.11	Tr 50	97.81	0.90	3.20	2.49	3.31	0.001488	1.82	76.03	63.15	0.42
Cuggiani-valle	249.11	Tr 100	117.75	0.90	3.36	2.60	3.50	0.001802	2.12	86.83	70.24	0.47
Cuggiani-valle	249.11	Tr 200	138.01	0.90	3.49	2.70	3.65	0.001858	2.24	96.38	72.21	0.49
Cuggiani-valle	249.11	Tr 500	165.15	0.90	3.66	2.83	3.84	0.001958	2.42	108.56	76.71	0.50
Cuggiani-valle	233.7	Tr 50	97.81	1.10	3.18	2.43	3.28	0.001615	1.81	89.16	86.32	0.44
Cuggiani-valle	233.7	Tr 100	117.75	1.10	3.37	2.54	3.46	0.001446	1.83	105.15	88.10	0.42
Cuggiani-valle	233.7	Tr 200	138.01	1.10	3.51	2.64	3.61	0.001434	1.91	117.51	89.59	0.42
Cuggiani-valle	233.7	Tr 500	165.15	1.10	3.68	2.80	3.79	0.001422	2.01	133.28	92.01	0.43
Cuggiani-valle	215.52	Tr 50	97.81	0.90	3.14	2.43	3.25	0.001626	1.96	84.51	75.95	0.45
Cuggiani-valle	215.52	Tr 100	117.75	0.90	3.32	2.54	3.43	0.001530	2.02	98.58	78.59	0.44
Cuggiani-valle	215.52	Tr 200	138.01	0.90	3.46	2.64	3.58	0.001571	2.13	109.31	80.57	0.45
Cuggiani-valle	215.52	Tr 500	165.15	0.90	3.62	2.73	3.76	0.001613	2.26	123.13	83.35	0.46
Cuggiani-valle	199.42	Tr 50	97.81	1.00	3.01	2.69	3.20	0.003227	2.32	58.32	64.37	0.60
Cuggiani-valle	199.42	Tr 100	117.75	1.00	3.13	2.79	3.38	0.003784	2.65	66.64	68.57	0.66
Cuggiani-valle	199.42	Tr 200	138.01	1.00	3.27	2.91	3.53	0.003608	2.73	76.20	70.61	0.66
Cuggiani-valle	199.42	Tr 500	165.15	1.00	3.44	3.06	3.71	0.003428	2.83	88.50	73.15	0.65
Cuggiani-valle	183.39	Tr 50	97.81	0.90	2.70	2.66	3.10	0.008497	3.42	42.58	51.67	0.95
Cuggiani-valle	183.39	Tr 100	117.75	0.90	2.77	2.69	3.26	0.009837	3.80	46.19	52.66	1.03
Cuggiani-valle	183.39	Tr 200	138.01	0.90	2.90	2.89	3.41	0.009370	3.94	53.08	55.81	1.02
Cuggiani-valle	183.39	Tr 500	165.15	0.90	3.10	2.99	3.61	0.008079	3.96	65.47	64.14	0.97
Cuggiani-valle	168.83	Tr 50	97.81	1.10	2.69	2.49	2.95	0.006267	2.80	48.33	48.66	0.81
Cuggiani-valle	168.83	Tr 100	117.75	1.10	2.77	2.59	3.08	0.007300	3.14	52.15	54.40	0.88
Cuggiani-valle	168.83	Tr 200	138.01	1.10	2.80	2.70	3.25	0.010588	3.85	53.95	59.30	1.06
Cuggiani-valle	168.83	Tr 500	165.15	1.10	2.80	2.80	3.44	0.015149	4.61	54.11	59.78	1.27
Cuggiani-valle	149.4	Tr 50	97.81	1.05	2.69	2.33	2.82	0.003686	2.09	70.30	79.50	0.61
Cuggiani-valle	149.4	Tr 100	117.75	1.05	2.78	2.41	2.93	0.004008	2.28	77.41	81.79	0.65
Cuggiani-valle	149.4	Tr 200	138.01	1.05	2.86	2.50	3.03	0.004346	2.47	83.84	85.23	0.68
Cuggiani-valle	149.4	Tr 500	165.15	1.05	2.95	2.62	3.16	0.004799	2.72	91.91	90.95	0.72
Cuggiani-valle	130.62	Tr 50	97.81	1.05	2.60	2.34	2.74	0.004596	2.10	68.18	96.96	0.67
Cuggiani-valle	130.62	Tr 100	117.75	1.05	2.69	2.44	2.84	0.004886	2.28	76.63	101.48	0.70
Cuggiani-valle	130.62	Tr 200	138.01	1.05	2.77	2.50	2.94	0.005163	2.46	84.43	103.20	0.72
Cuggiani-valle	130.62	Tr 500	165.15	1.05	2.86	2.54	3.06	0.005341	2.63	94.28	107.01	0.75
Cuggiani-valle	118.93	Tr 50	97.81	0.90	2.36	2.36	2.64	0.010184	2.80	49.26	99.37	0.97
Cuggiani-valle	118.93	Tr 100	117.75	0.90	2.45	2.45	2.74	0.009583	2.91	59.01	106.93	0.96
Cuggiani-valle	118.93	Tr 200	138.01	0.90	2.53	2.53	2.84	0.009422	3.05	67.46	111.31	0.96
Cuggiani-valle	118.93	Tr 500	165.15	0.90	2.62	2.62	2.95	0.009425	3.22	77.65	118.18	0.97
Cuggiani-valle	91.22	Tr 50	97.81	0.90	2.13	2.09	2.34	0.006200	2.58	63.47	112.04	0.79
Cuggiani-valle	91.22	Tr 100	117.75	0.90	2.24	2.17	2.45	0.005690	2.63	75.97	122.55	0.77
Cuggiani-valle	91.22	Tr 200	138.01	0.90	2.32	2.25	2.54	0.005544	2.72	86.23	128.14	0.77
Cuggiani-valle	91.22	Tr 500	165.15	0.90	2.43	2.33	2.65	0.005274	2.80	100.29	136.96	0.76
Cuggiani-valle	59.97	Tr 50	97.81	0.70	1.80	1.80	2.09	0.008592	2.57	47.55	85.74	0.90
Cuggiani-valle	59.97	Tr 100	117.75	0.70	1.88	1.88	2.21	0.008561	2.73	55.02	92.65	0.91
Cuggiani-valle	59.97	Tr 200	138.01	0.70	1.99	1.99	2.31	0.007471	2.75	67.41	118.82	0.87
Cuggiani-valle	59.97	Tr 500	165.15	0.70	2.09	2.09	2.43	0.007394	2.90	79.02	129.11	0.87
Cuggiani-valle	1	Tr 50	97.81	0.12	1.80	0.70	1.81	0.000238	0.66	229.95	208.76	0.17
Cuggiani-valle	1	Tr 100	117.75	0.12	1.80	0.75	1.82	0.000345	0.80	229.95	208.76	0.20
Cuggiani-valle	1	Tr 200	138.01	0.12	1.80	0.80	1.82	0.000474	0.93	229.95	208.76	0.23
Cuggiani-valle	1	Tr 500	165.15	0.12	1.80	0.87	1.83	0.000679	1.12	229.95	208.76	0.28

HEC-RAS Model Plan: Art_8_comma 2

Geom: DTM_RAS

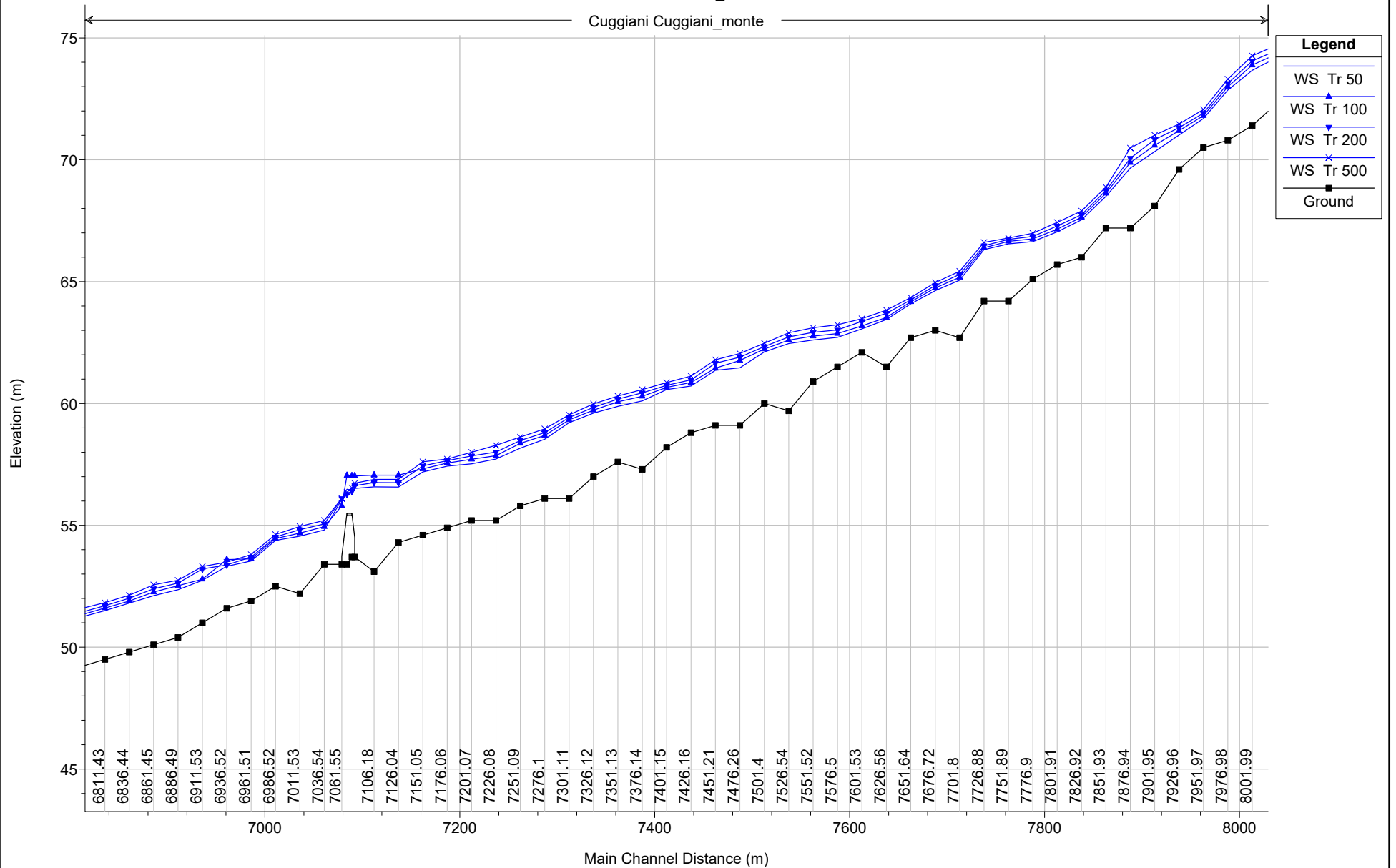
Cuggiani Cuggiani_monte

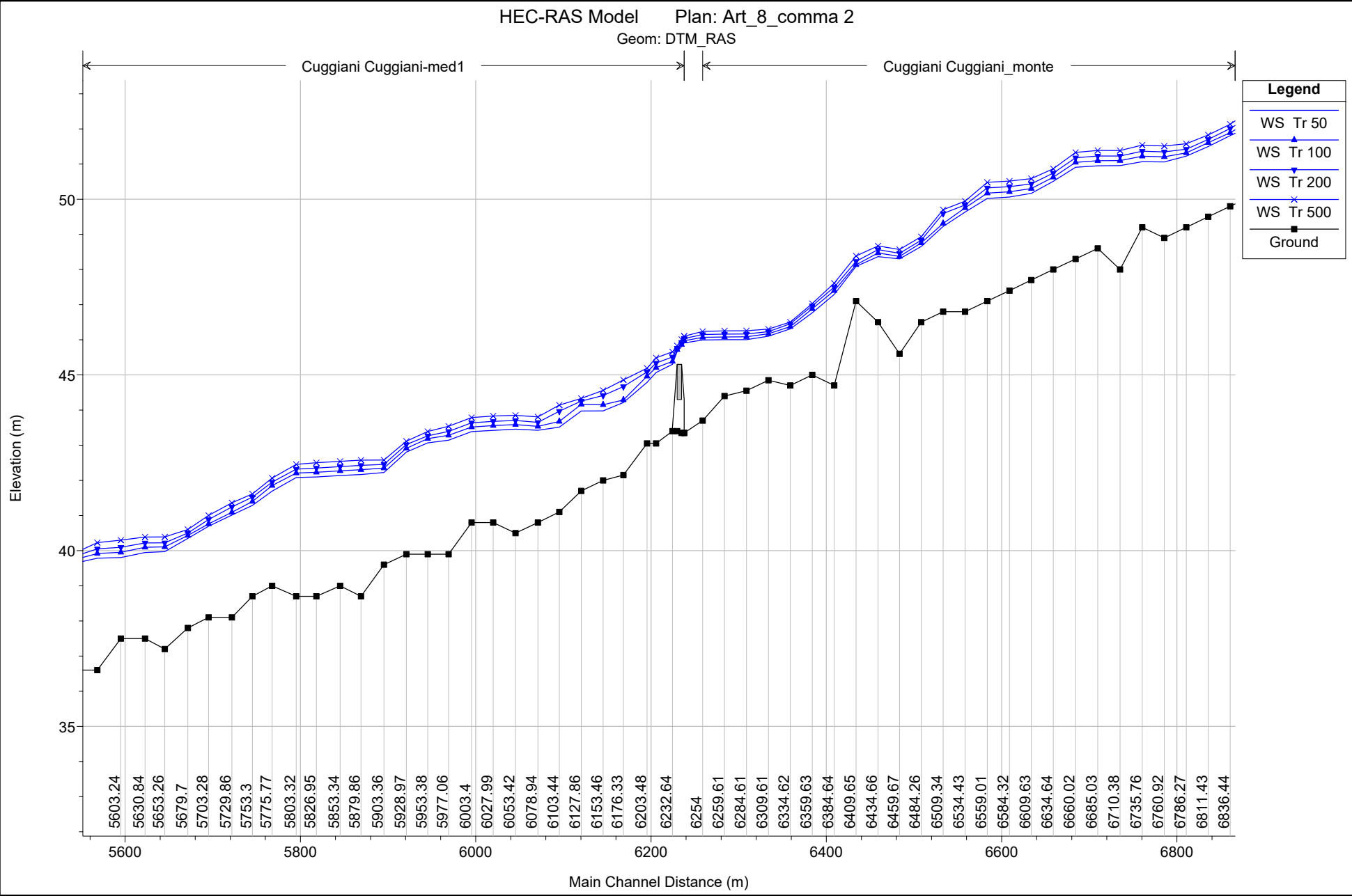


HEC-RAS Model Plan: Art_8_comma 2

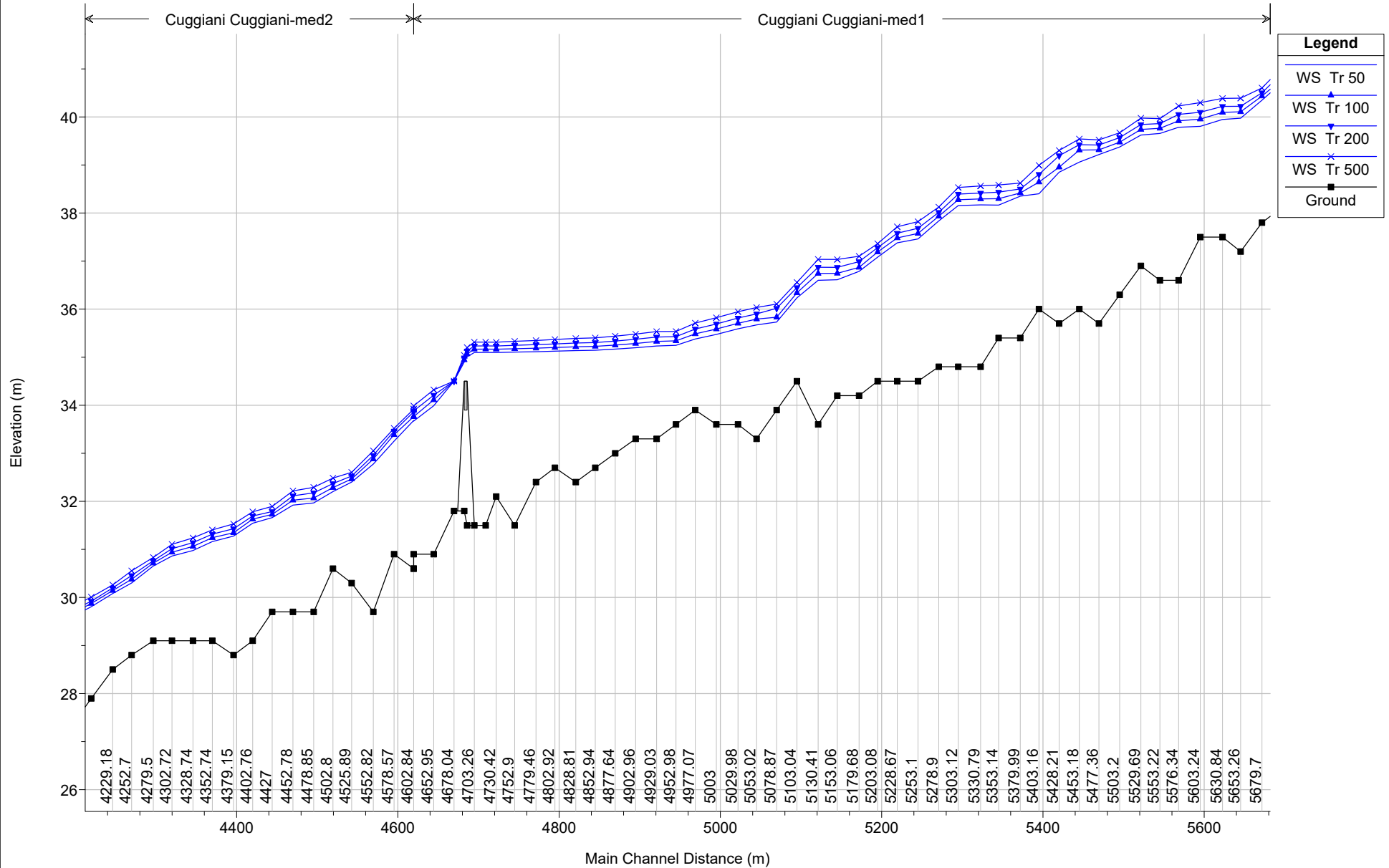
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Cuggiani Cuggiani_monte





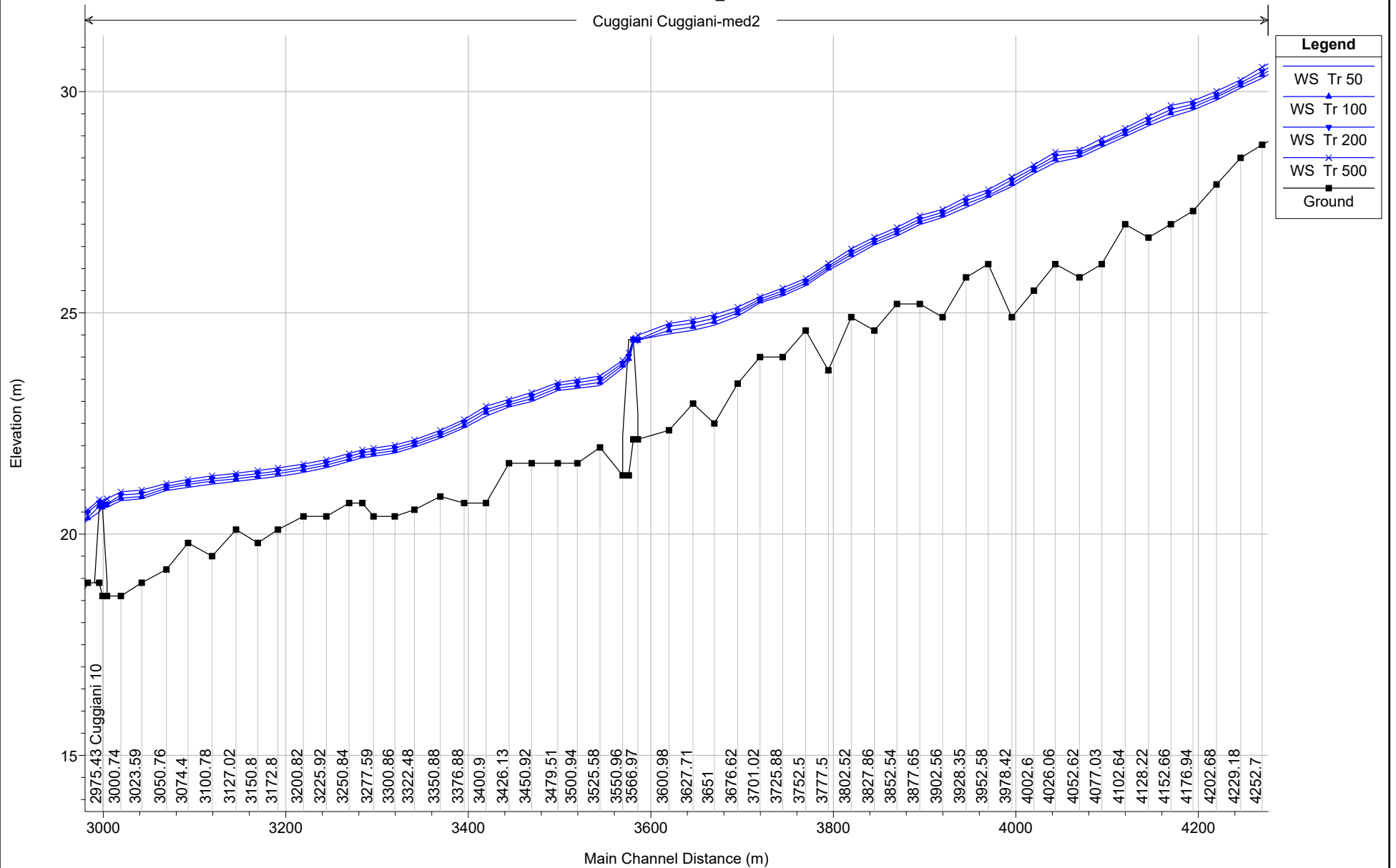
HEC-RAS Model Plan: Art_8_comma 2
 Geom: DTM_RAS



HEC-RAS Model Plan: Art_8_comma 2

Geom: DTM_RAS

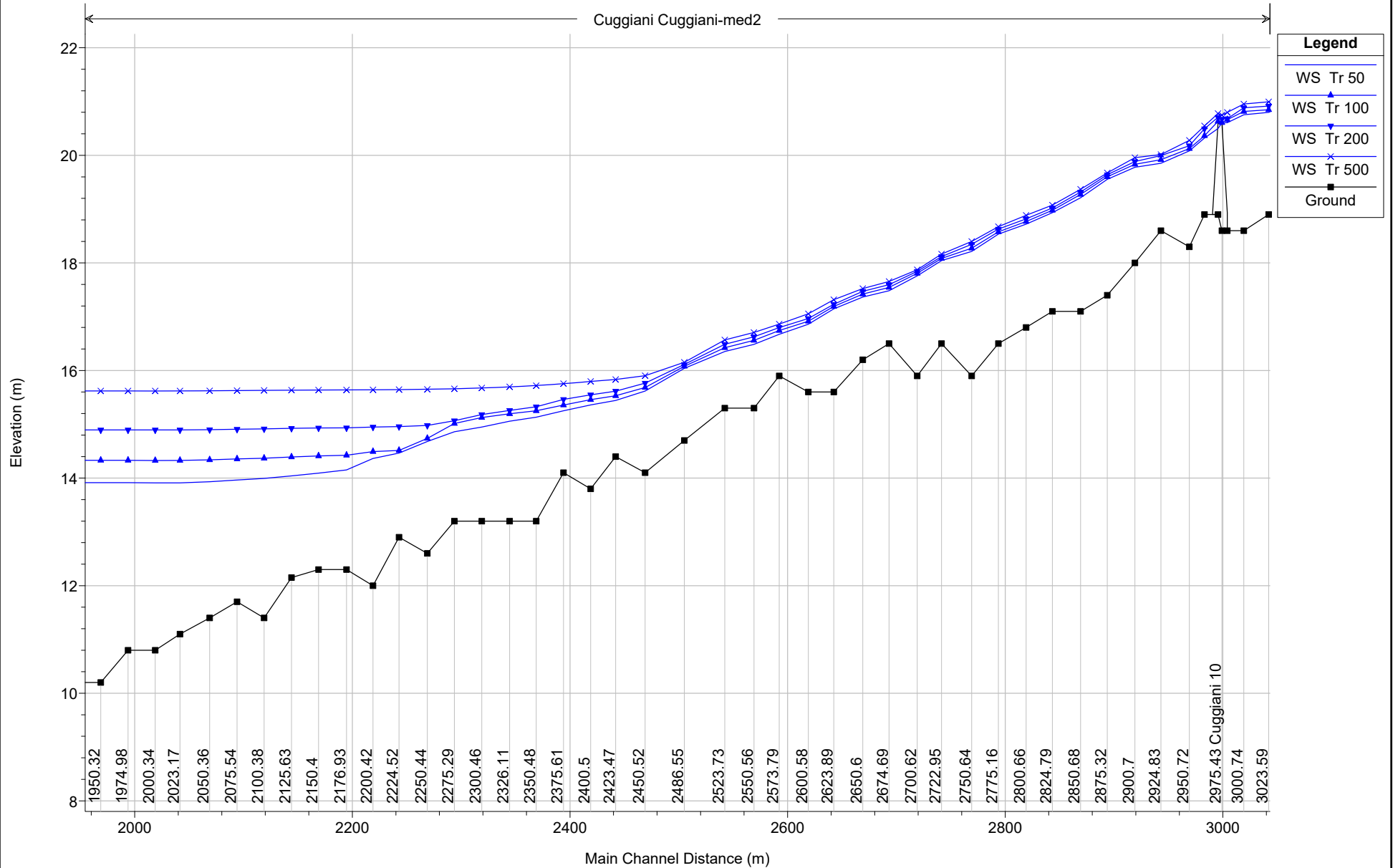
Cuggiani Cuggiani-med2



HEC-RAS Model Plan: Art_8_comma 2

Geom: DTM_RAS

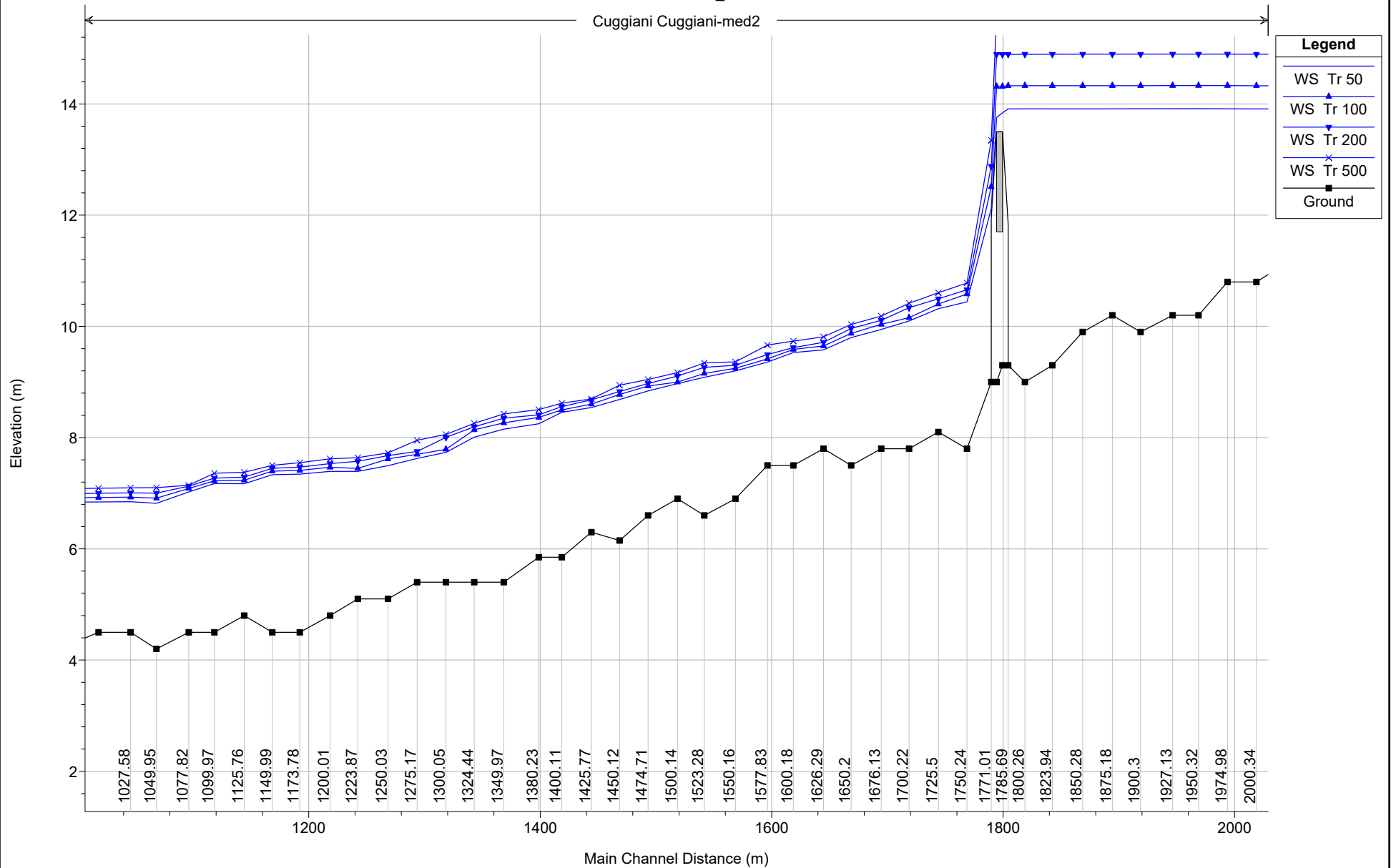
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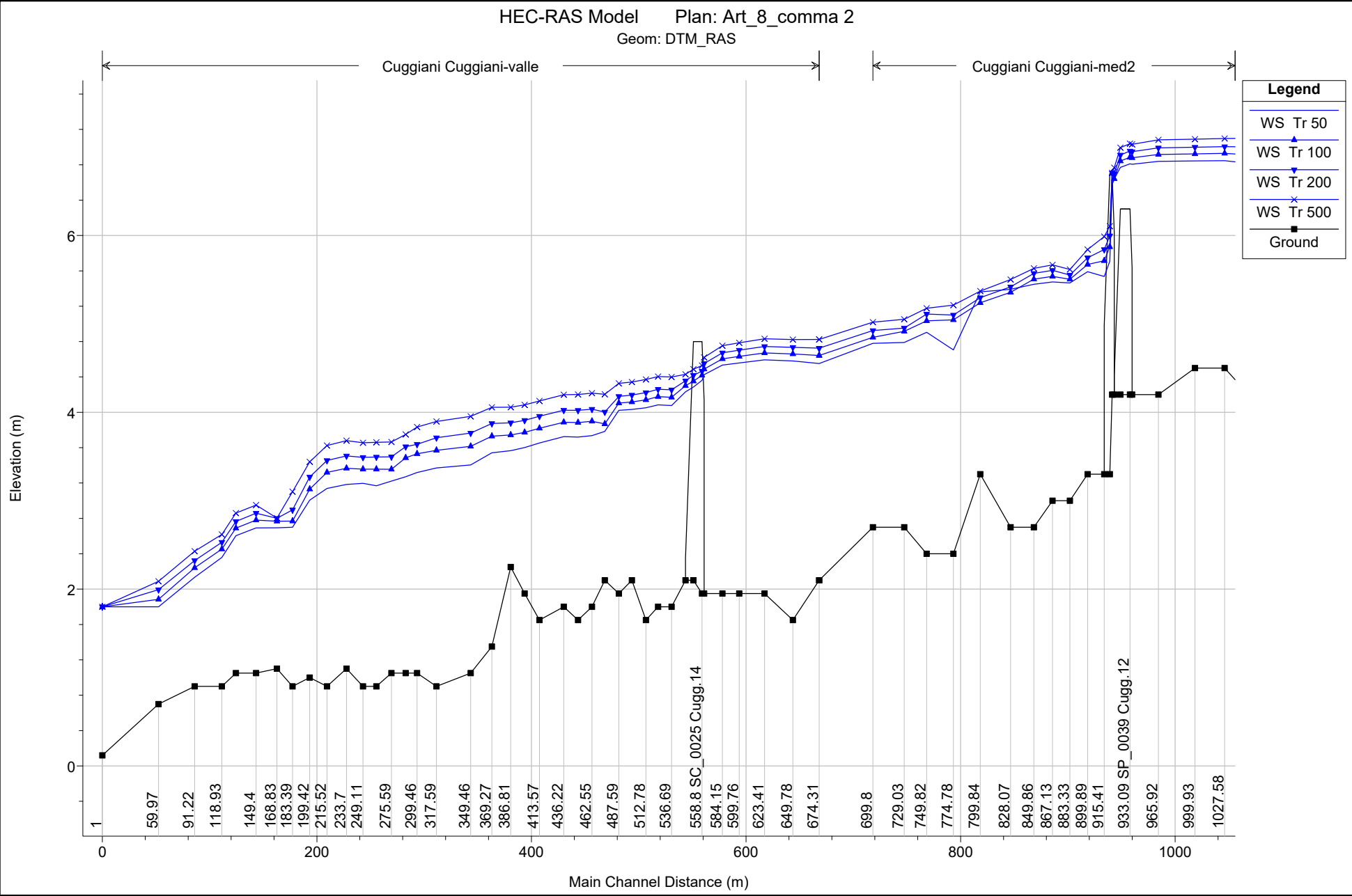


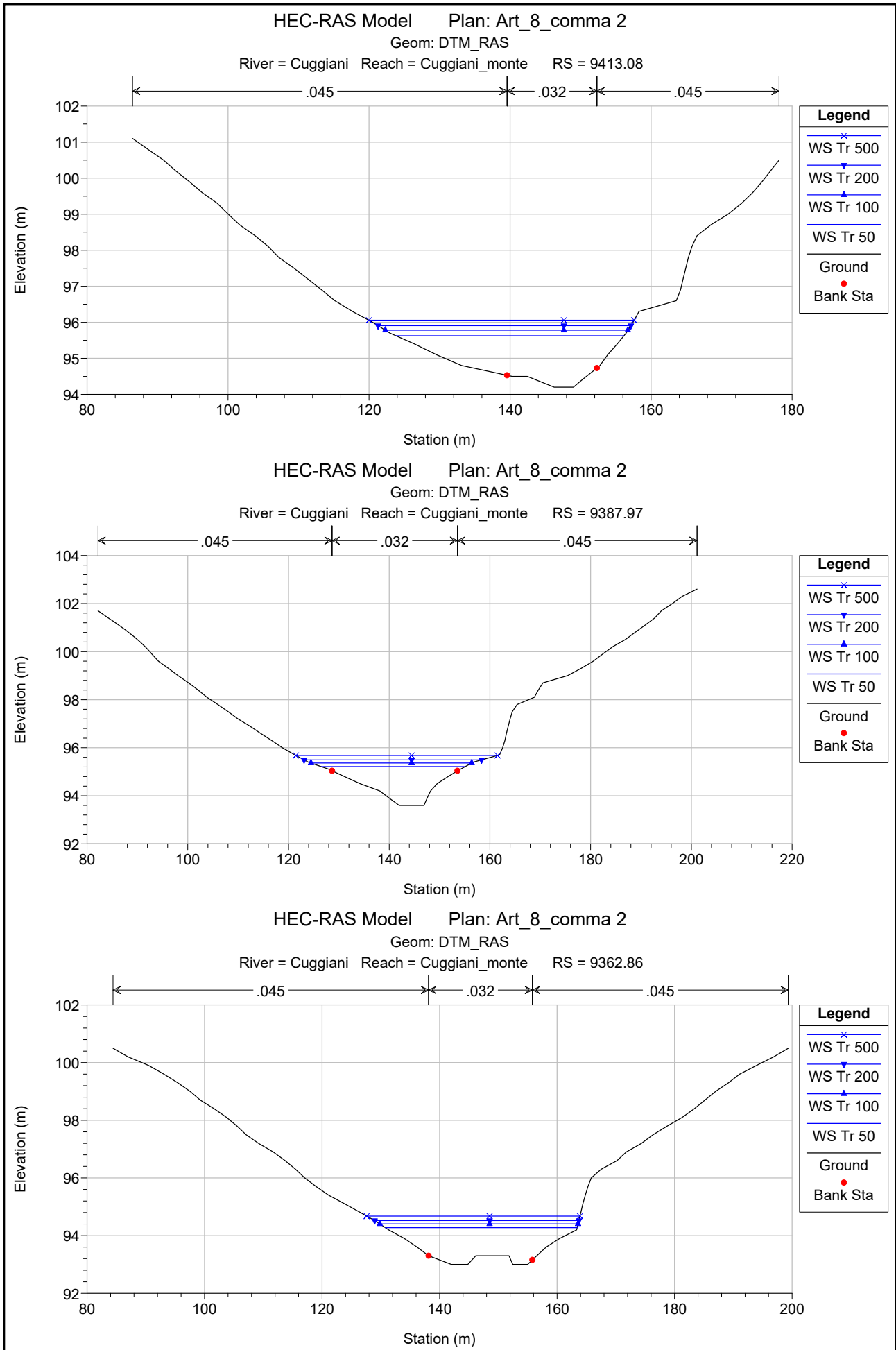
HEC-RAS Model Plan: Art_8_comma 2

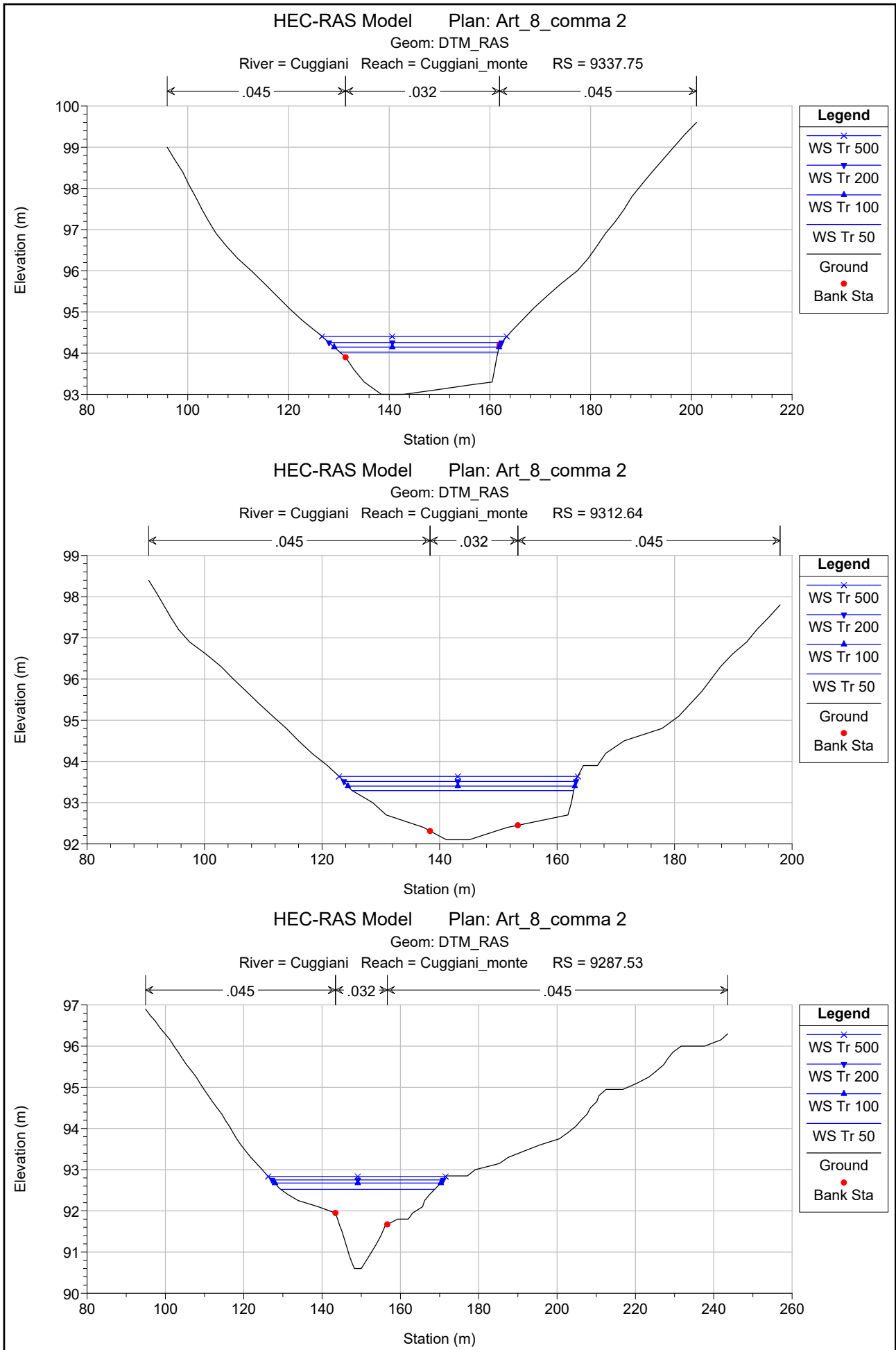
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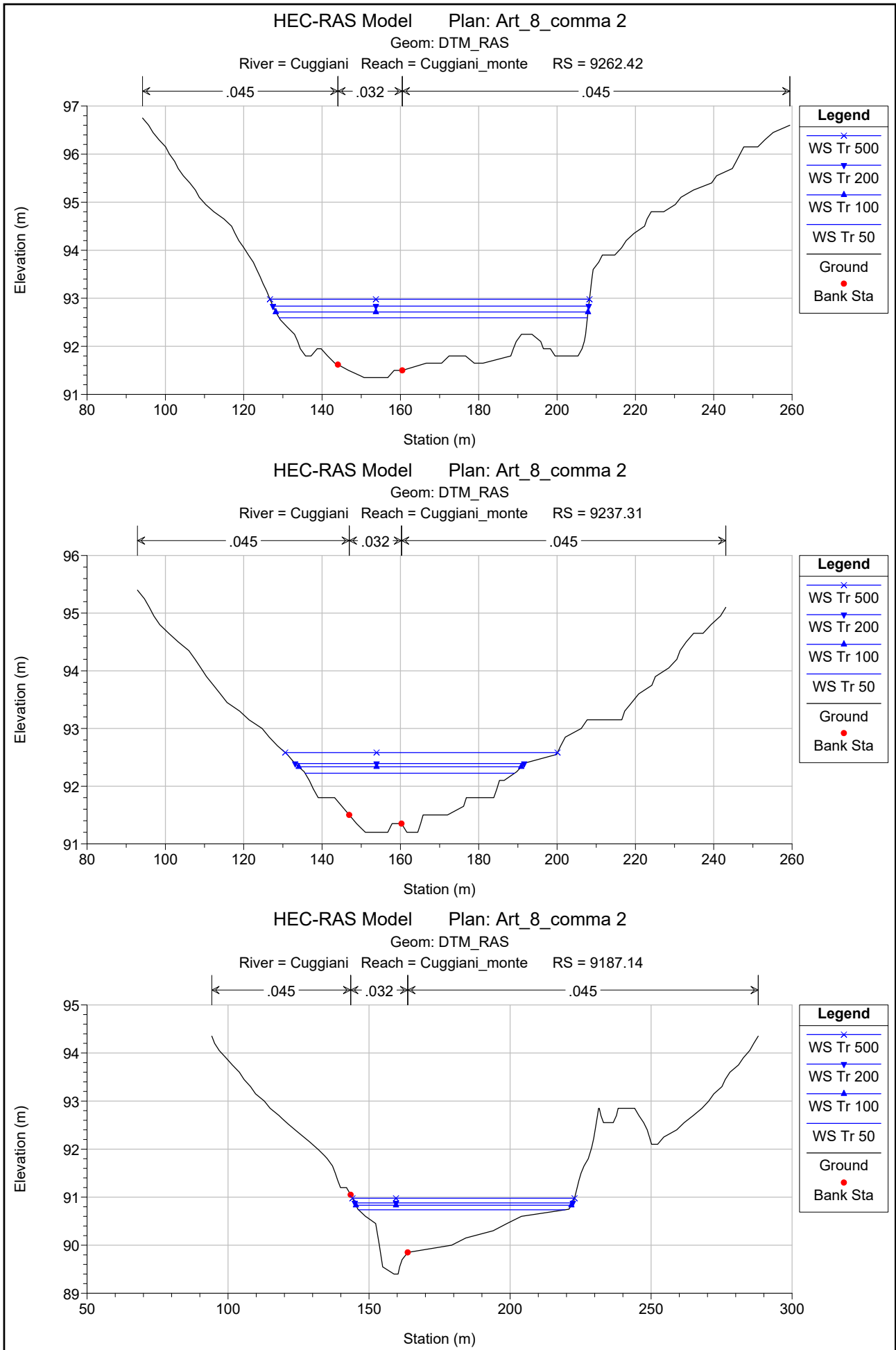
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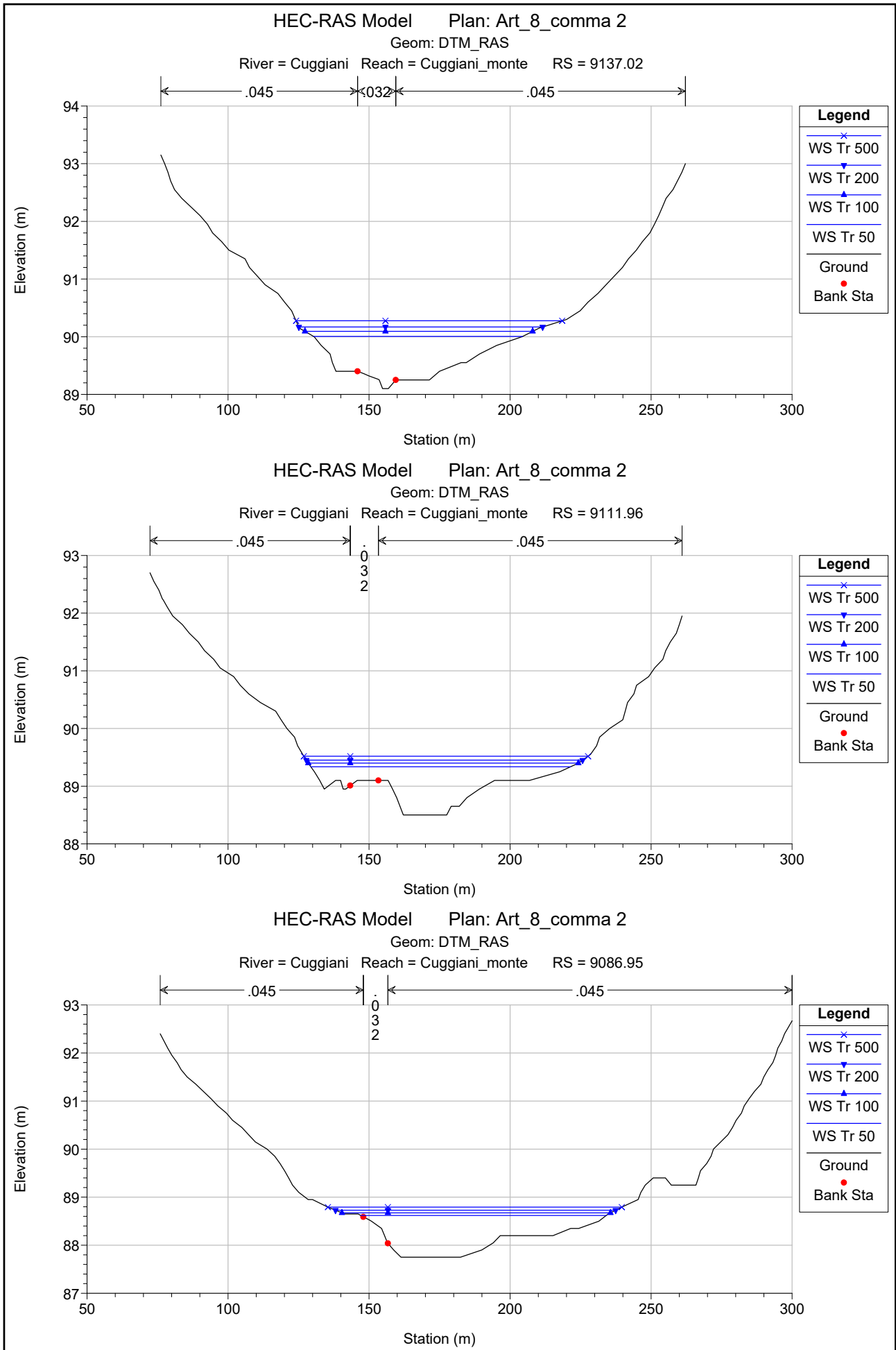


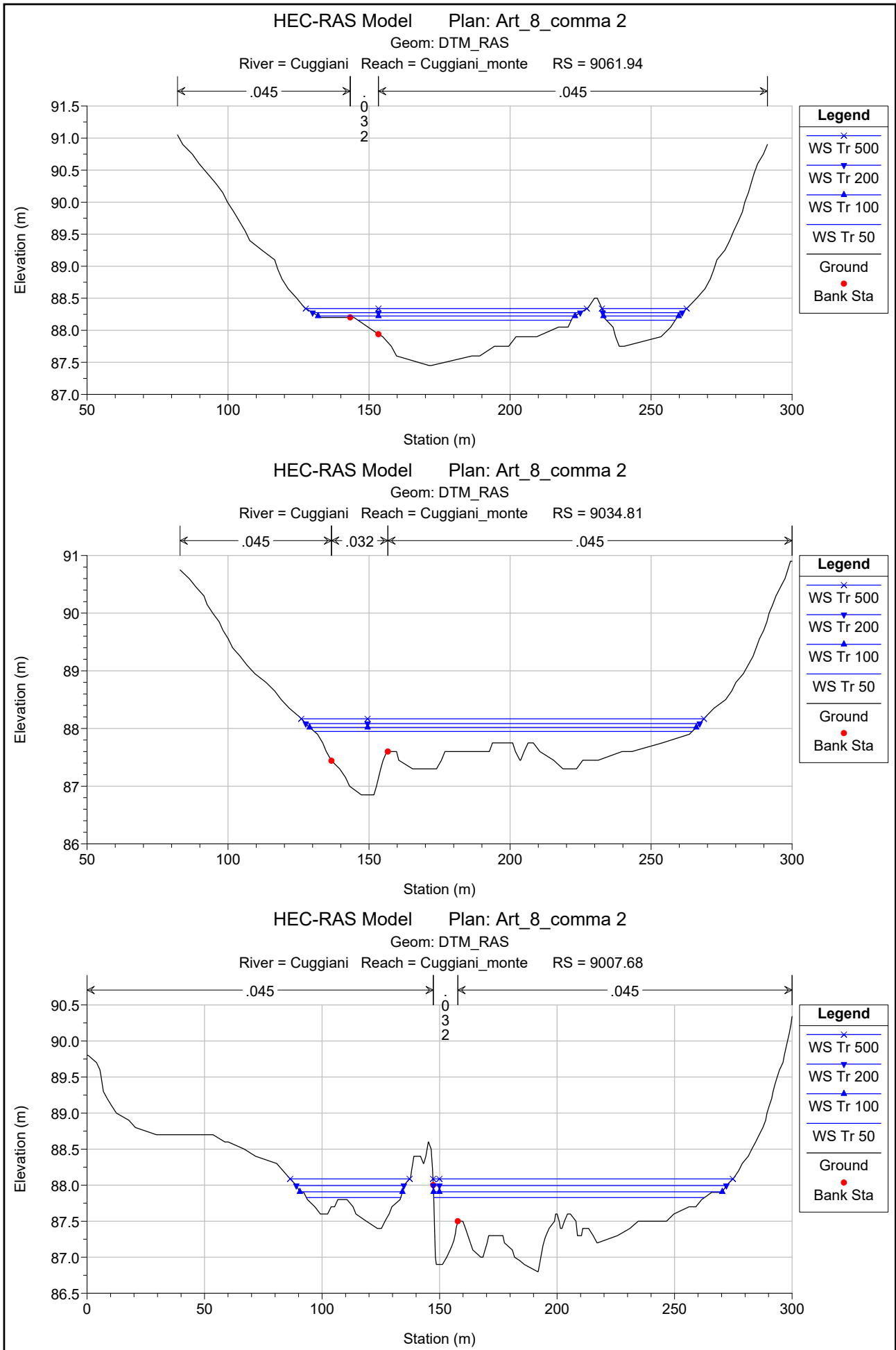


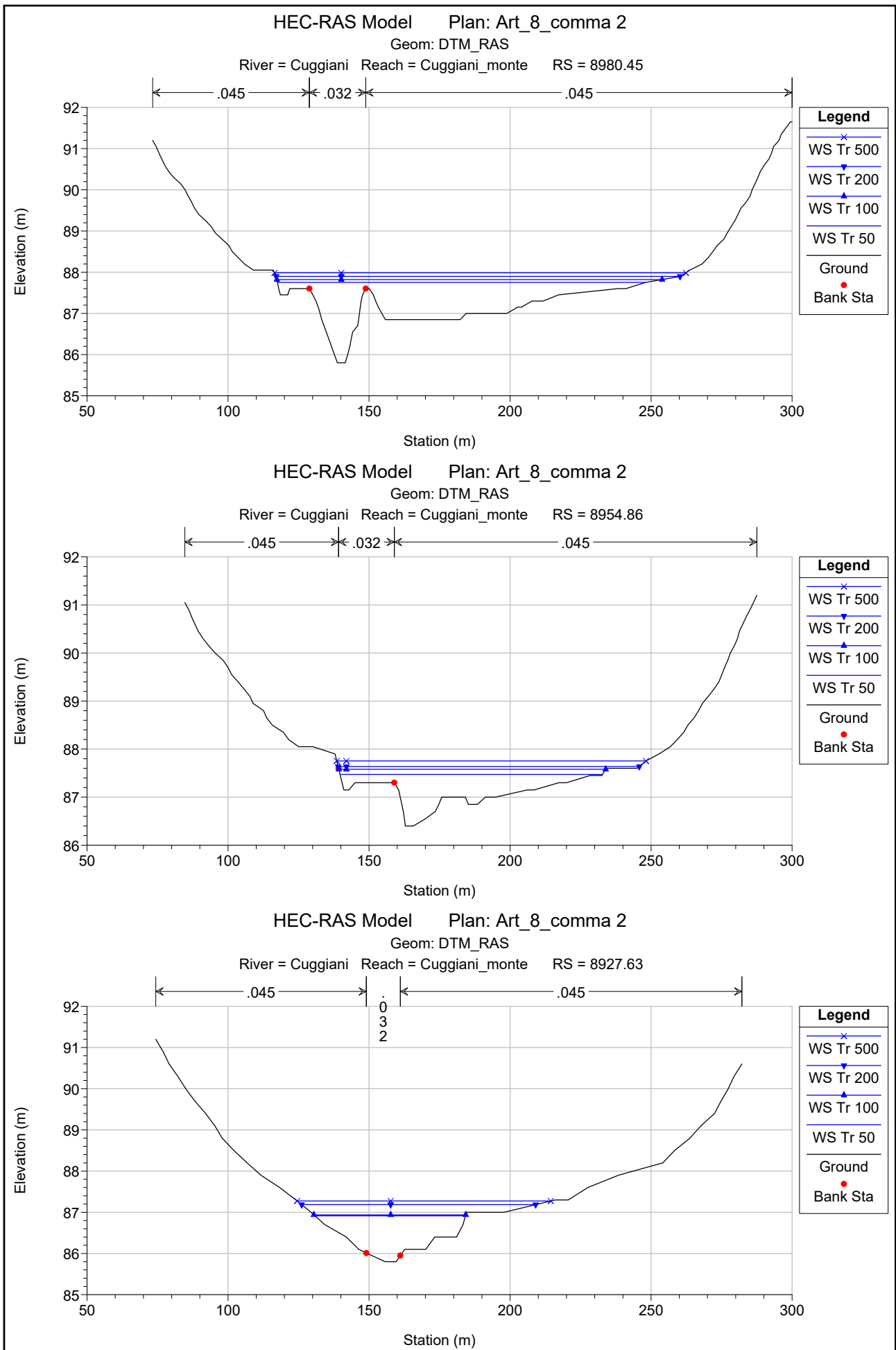


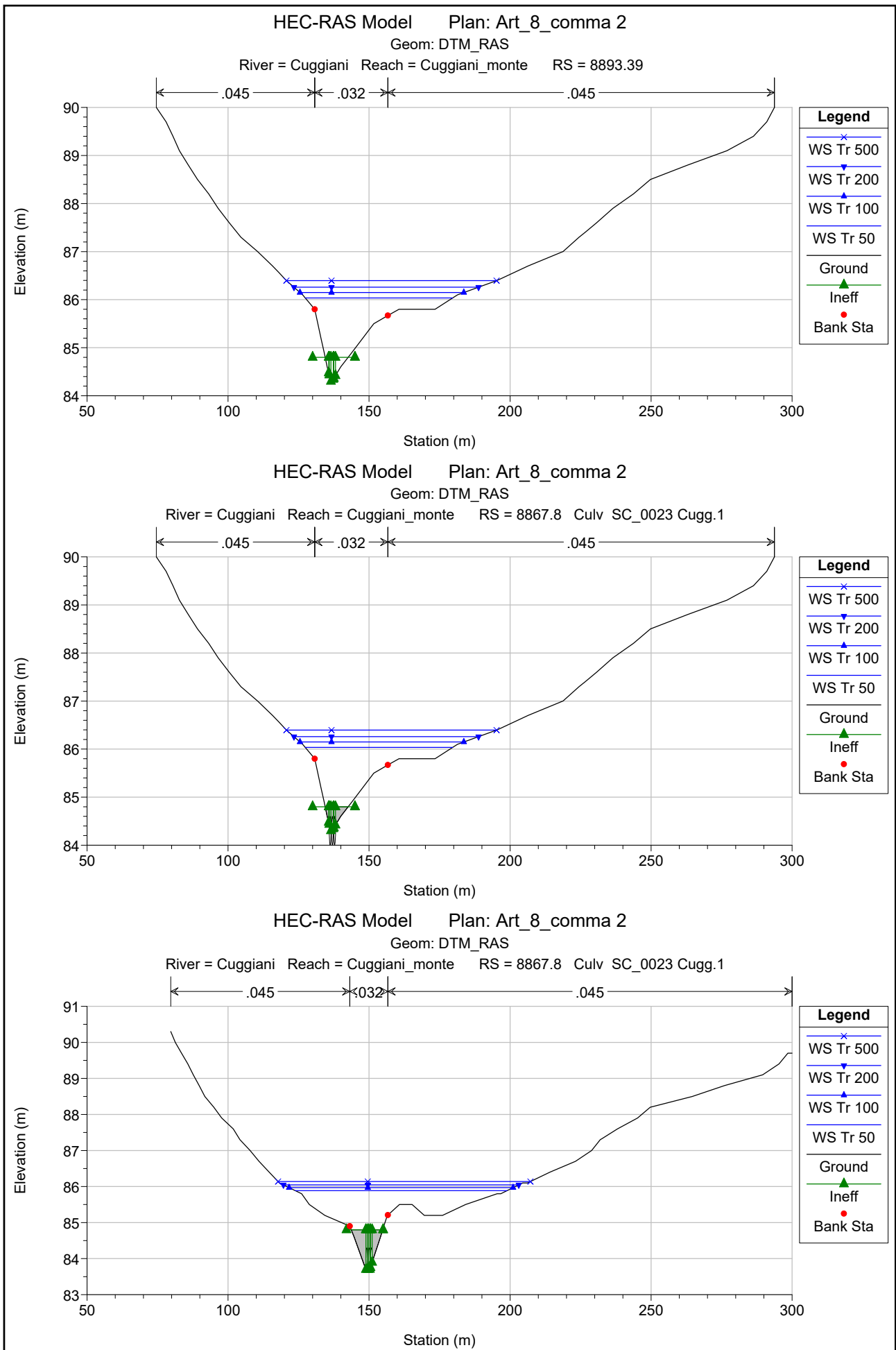


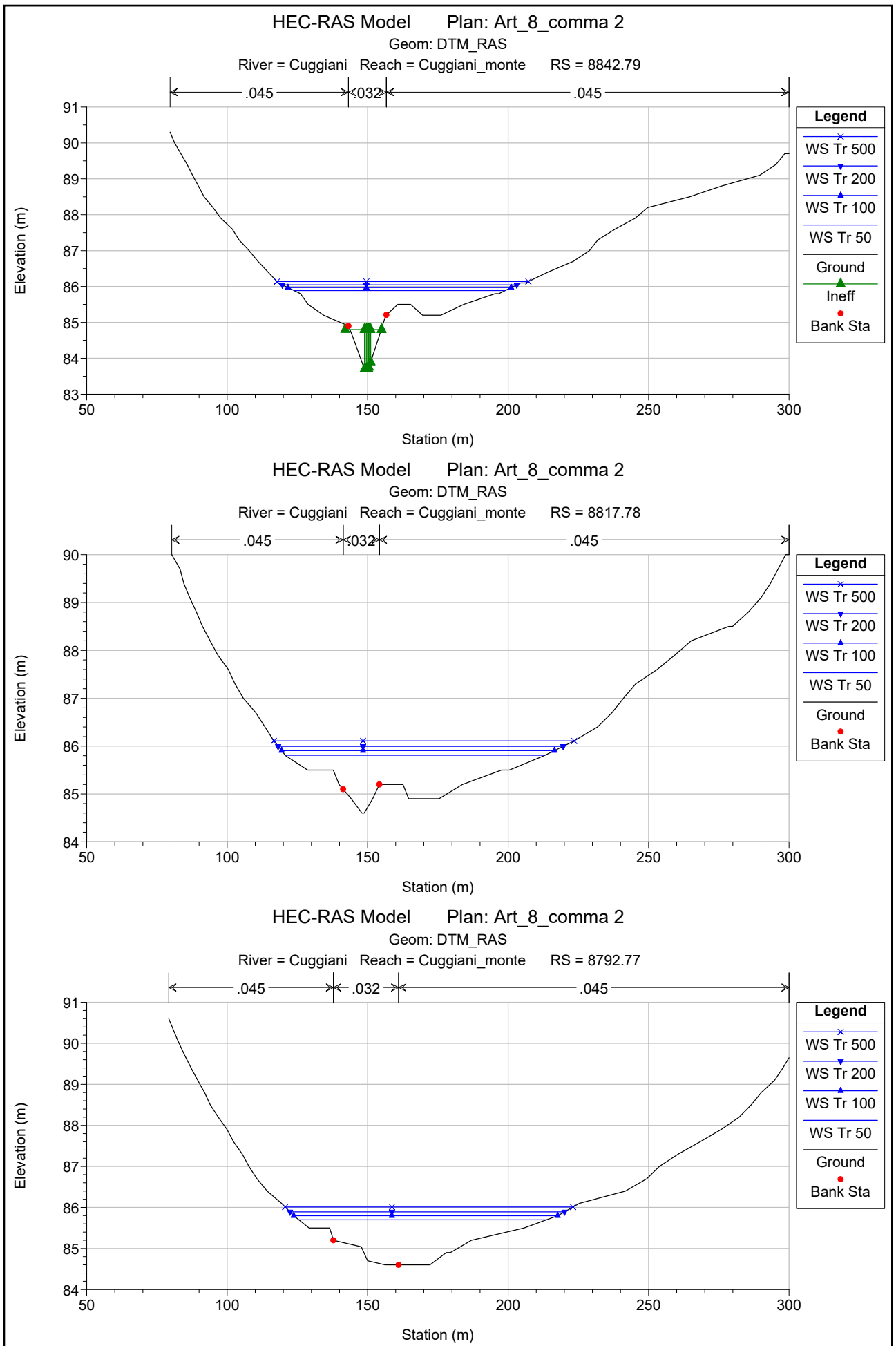


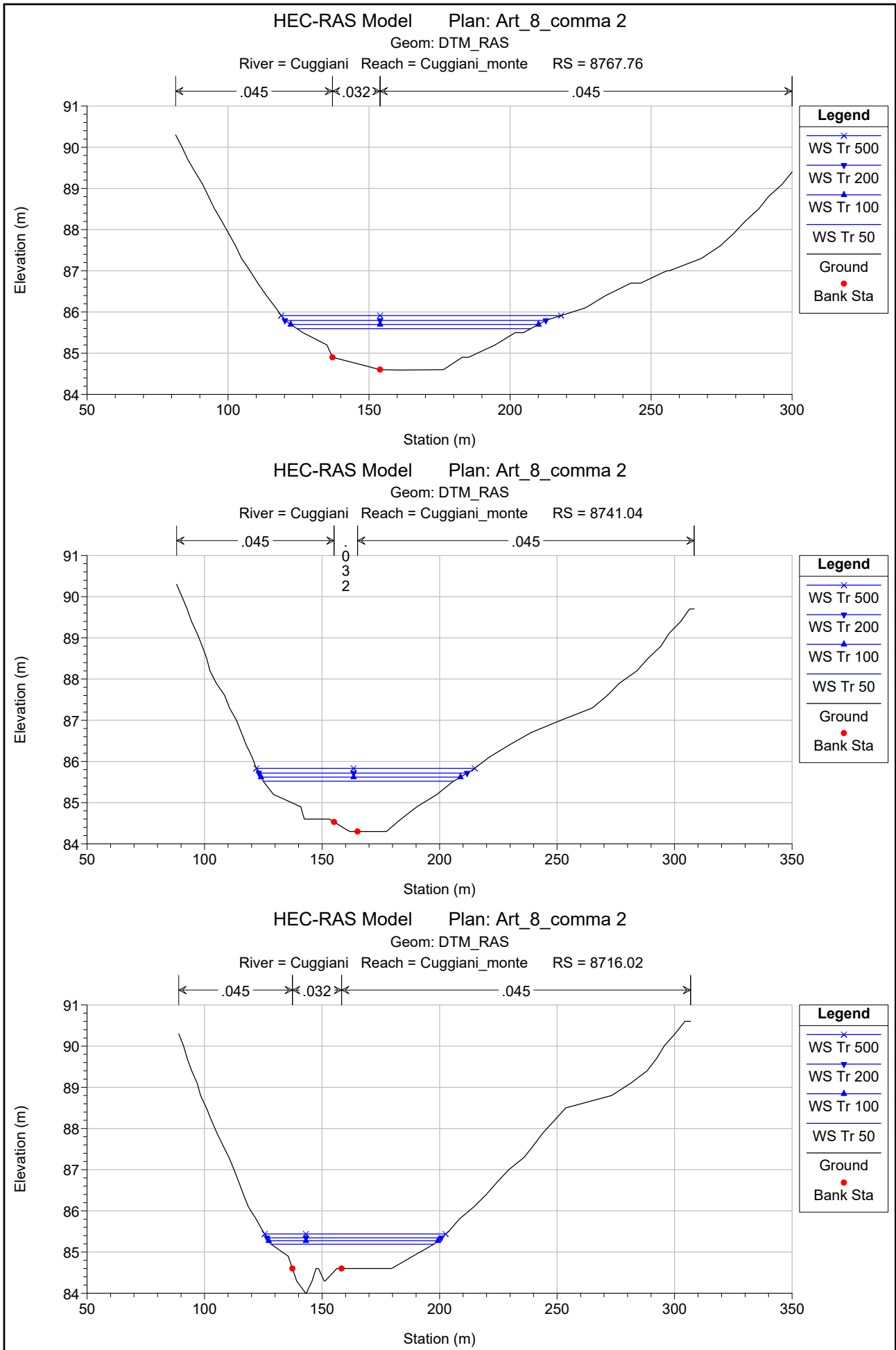


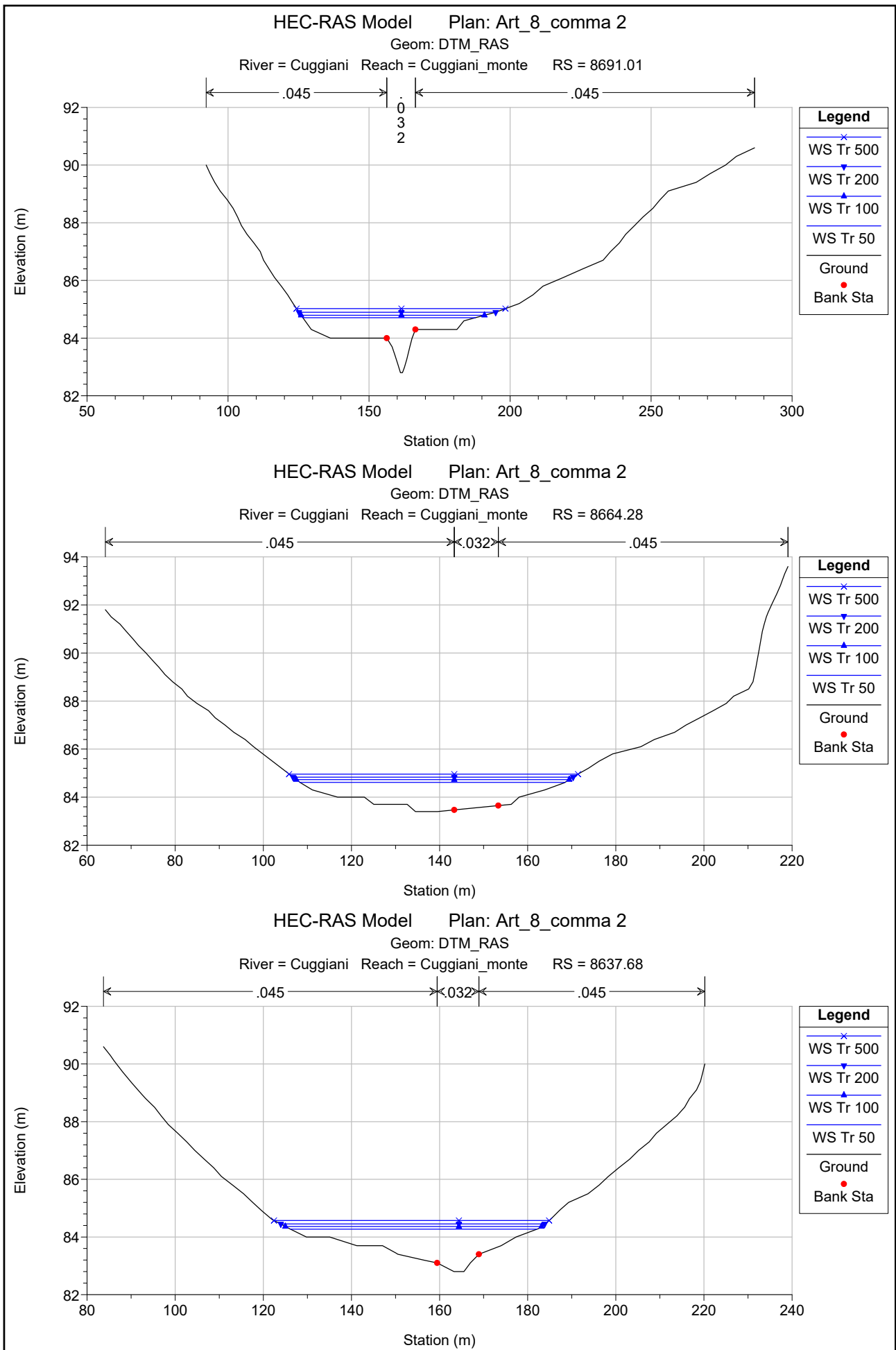


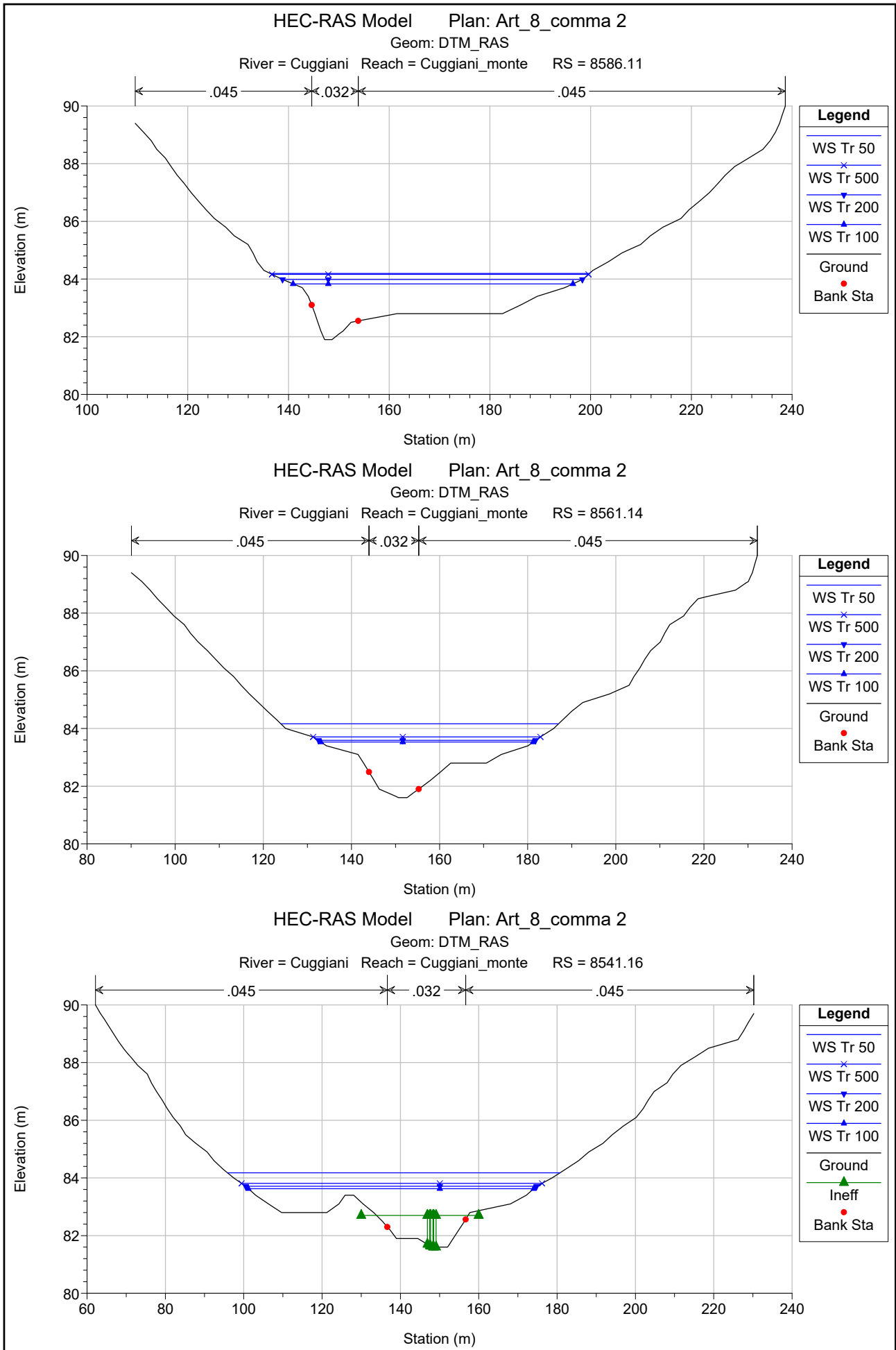


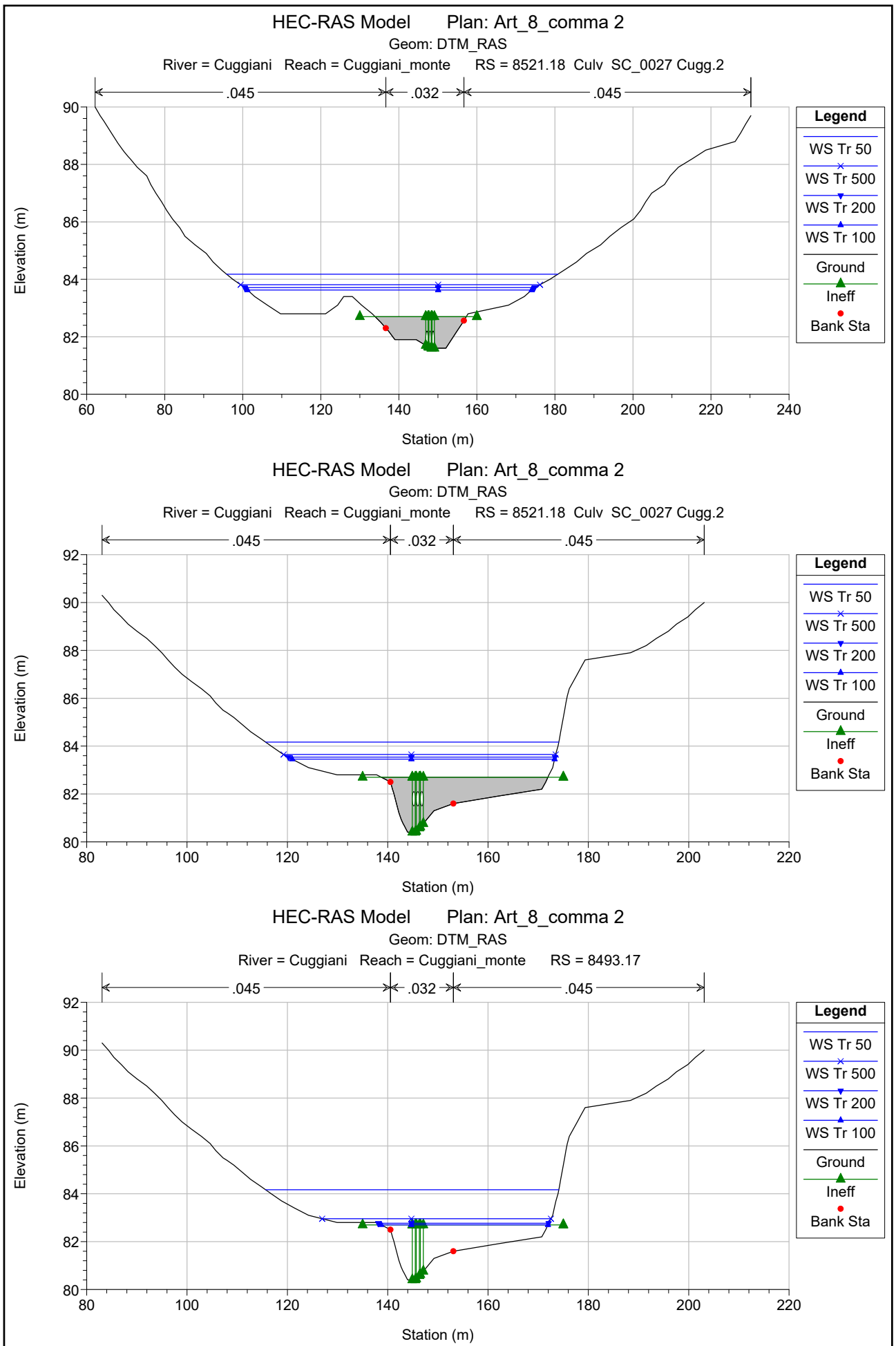


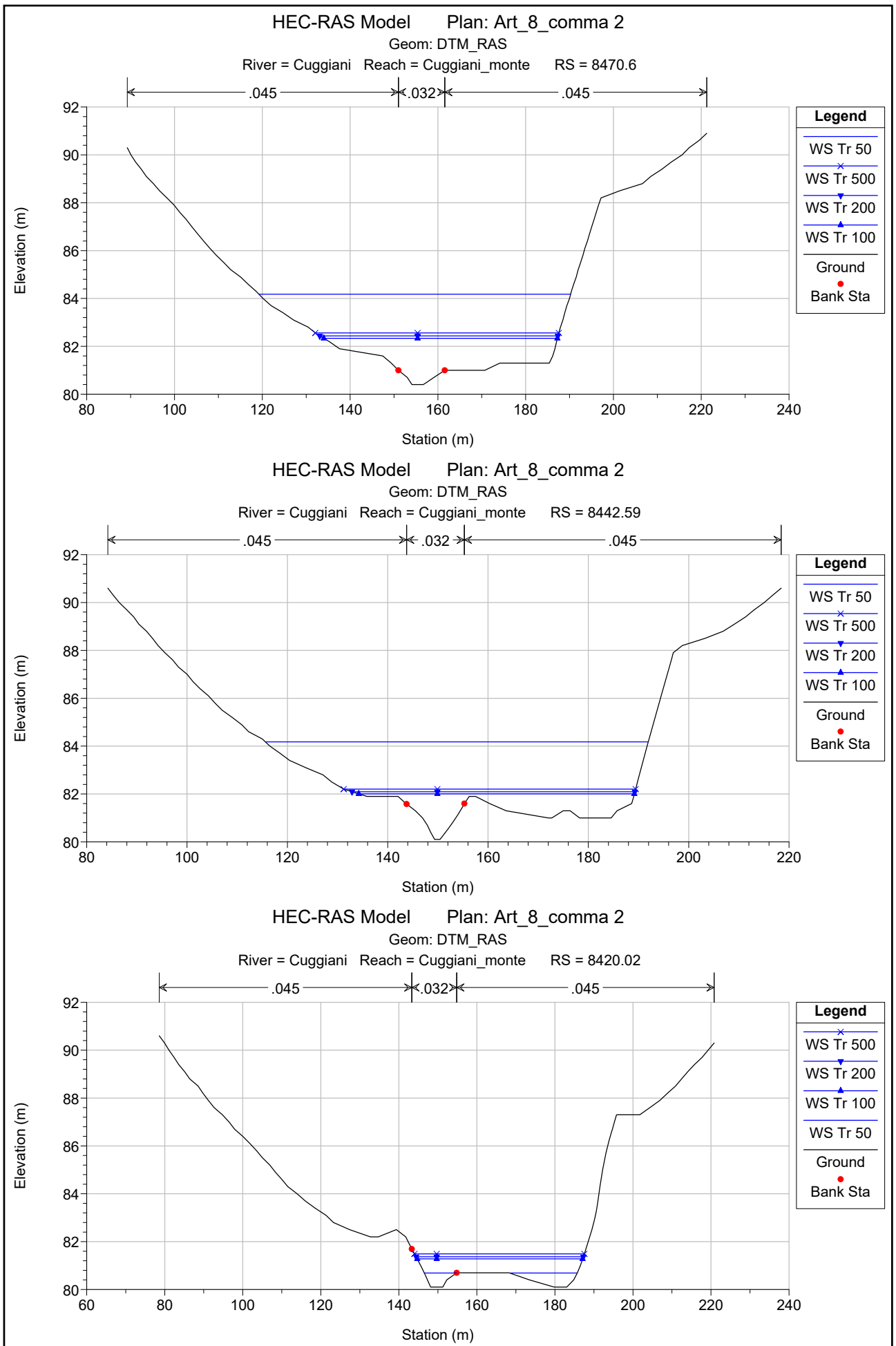


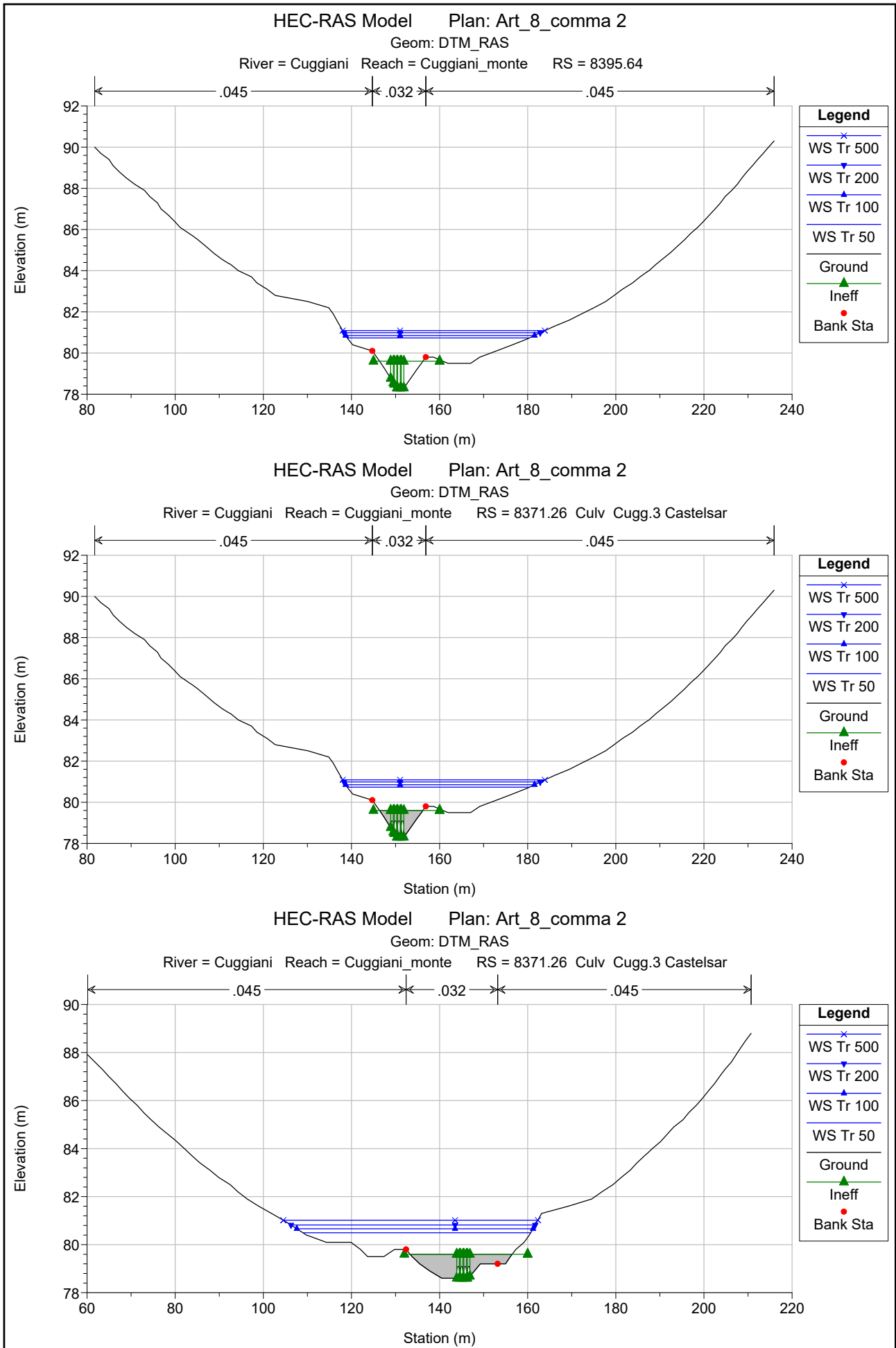


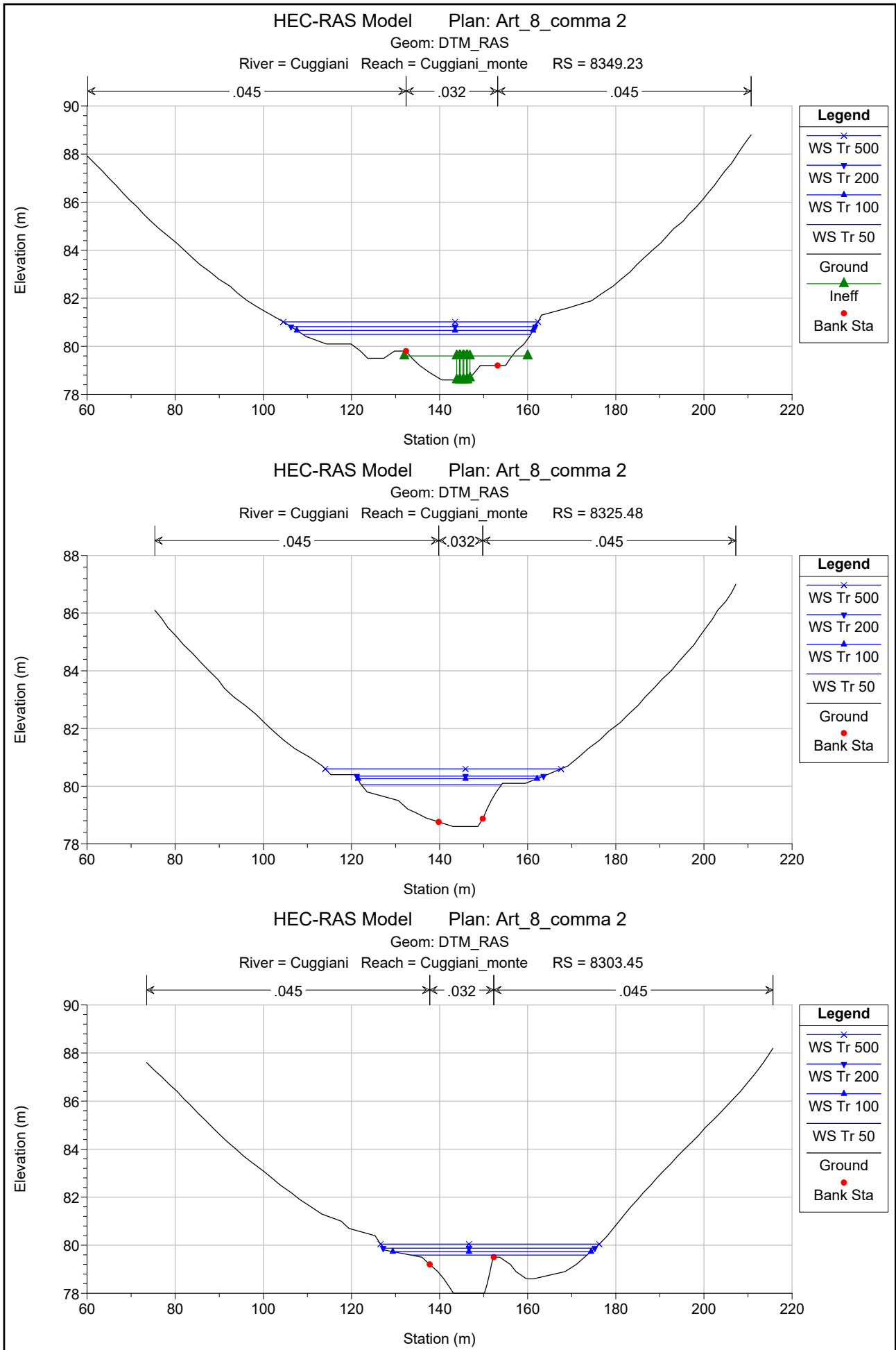


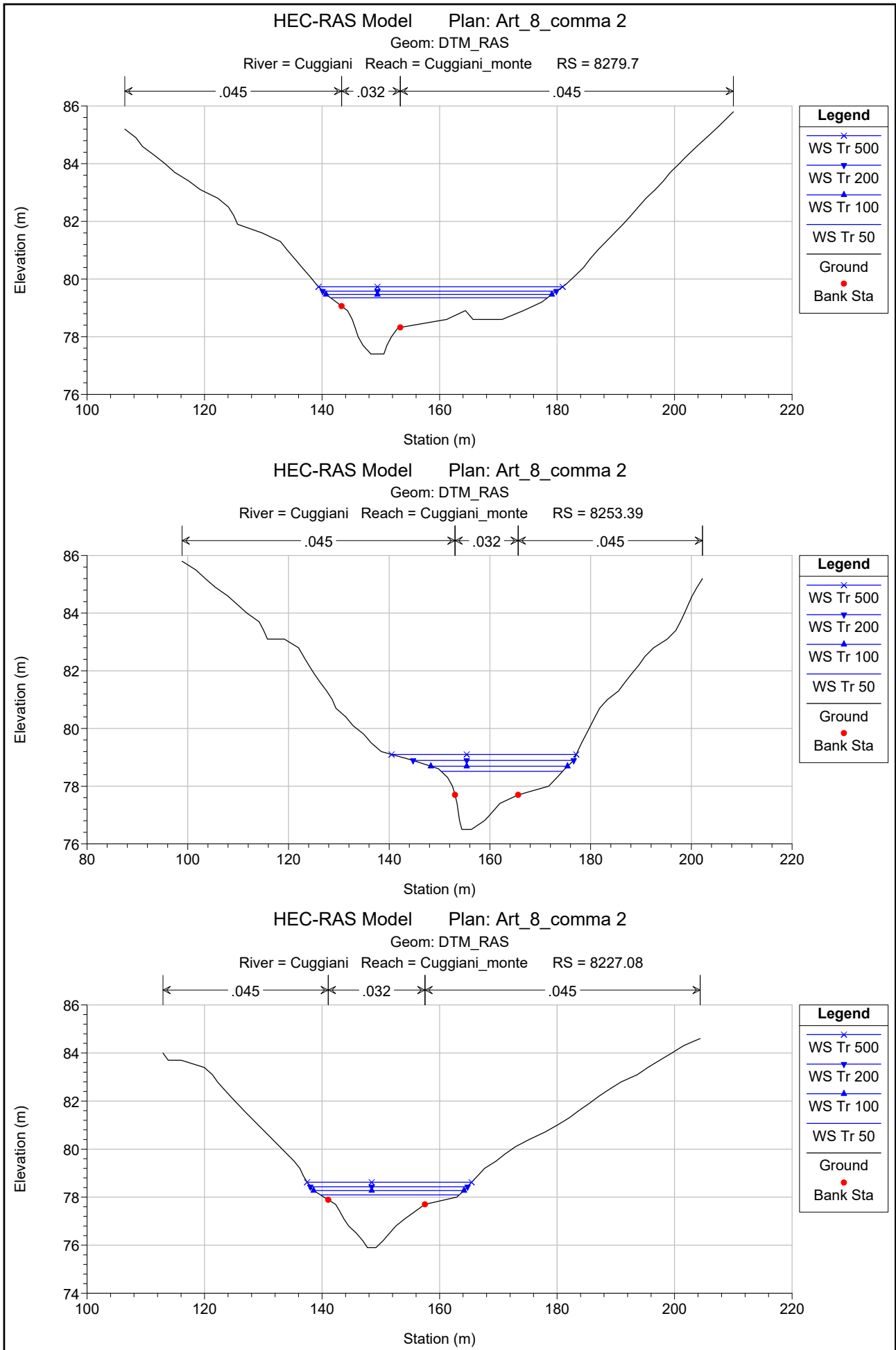


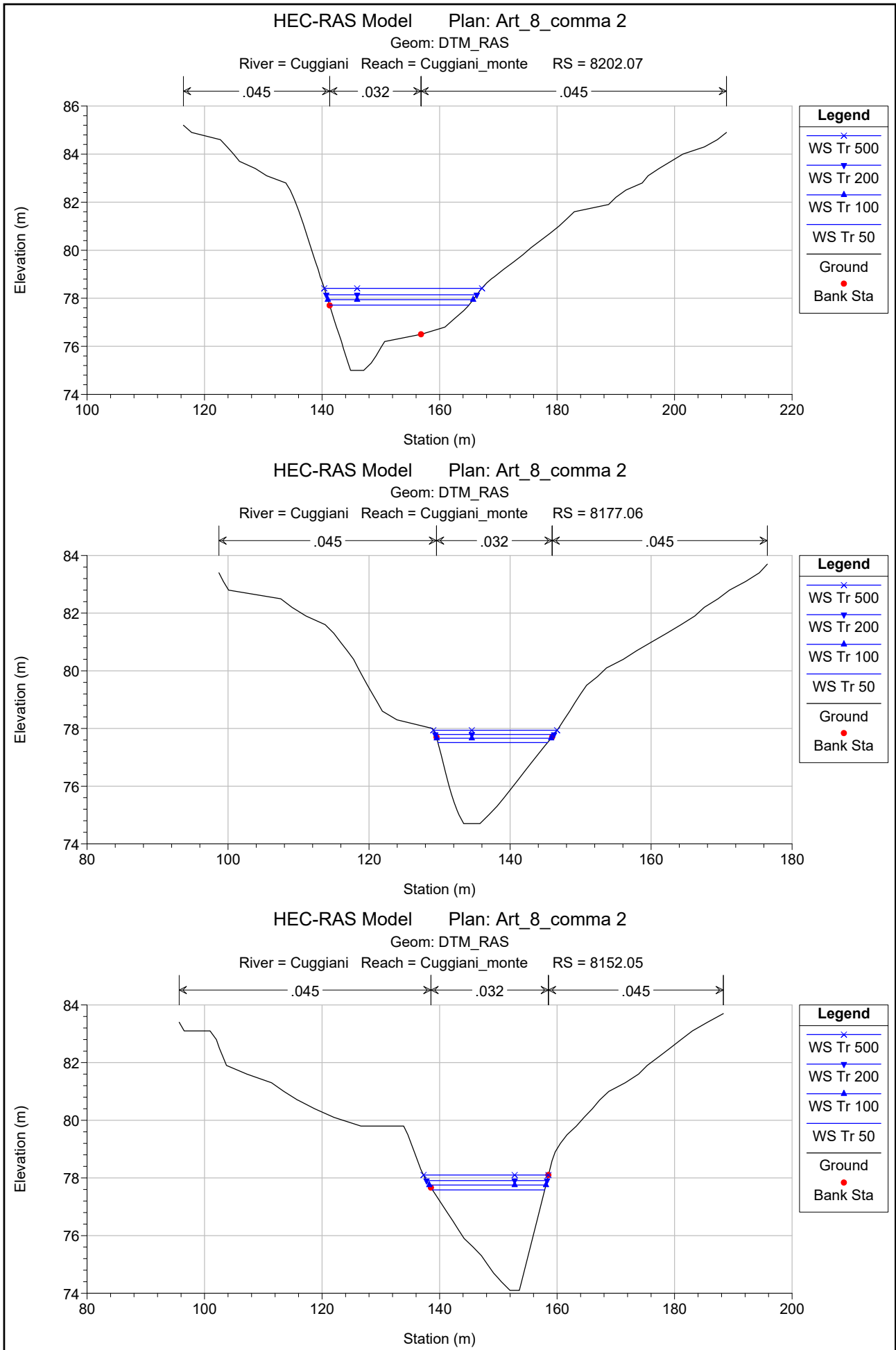


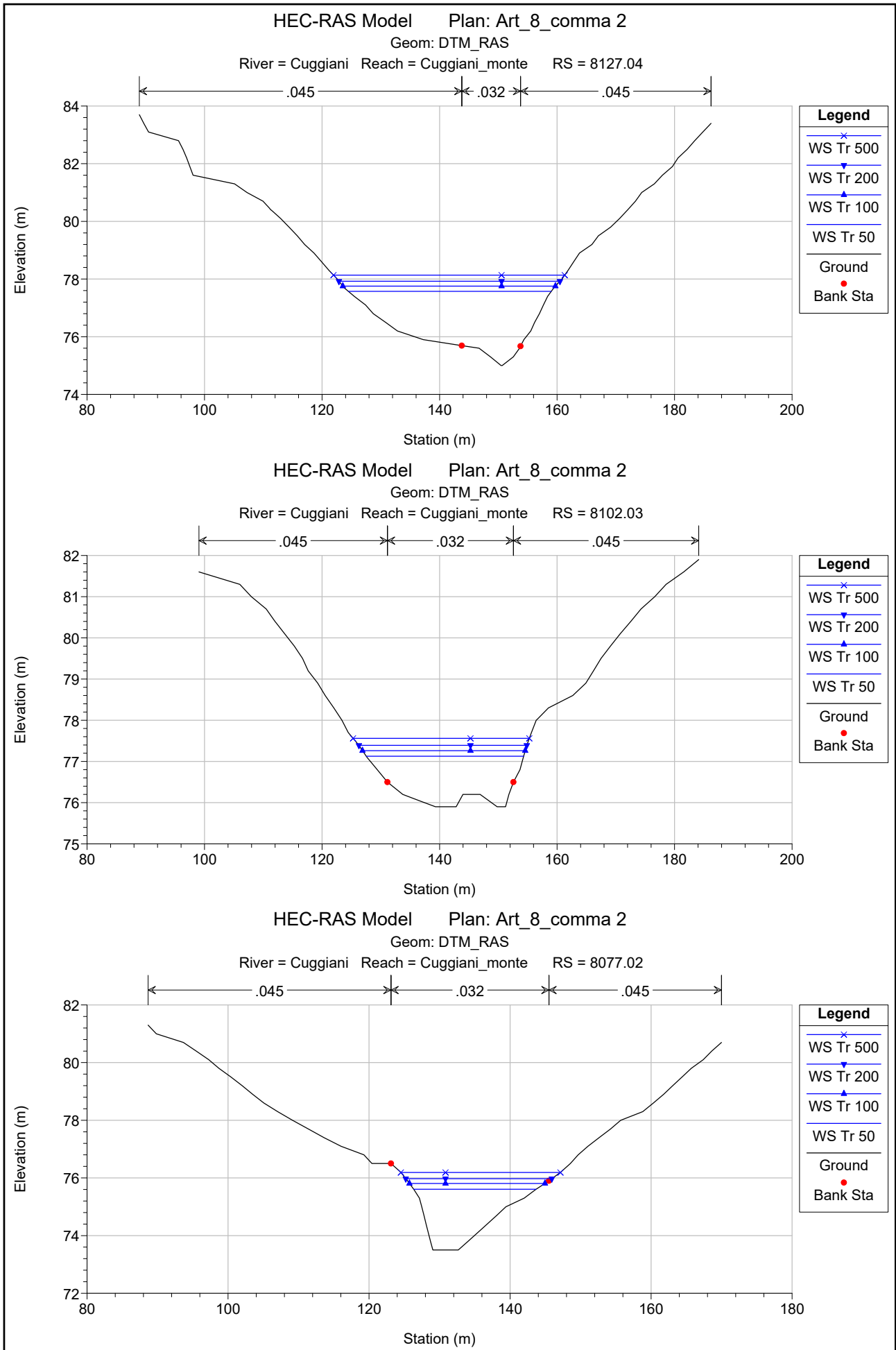


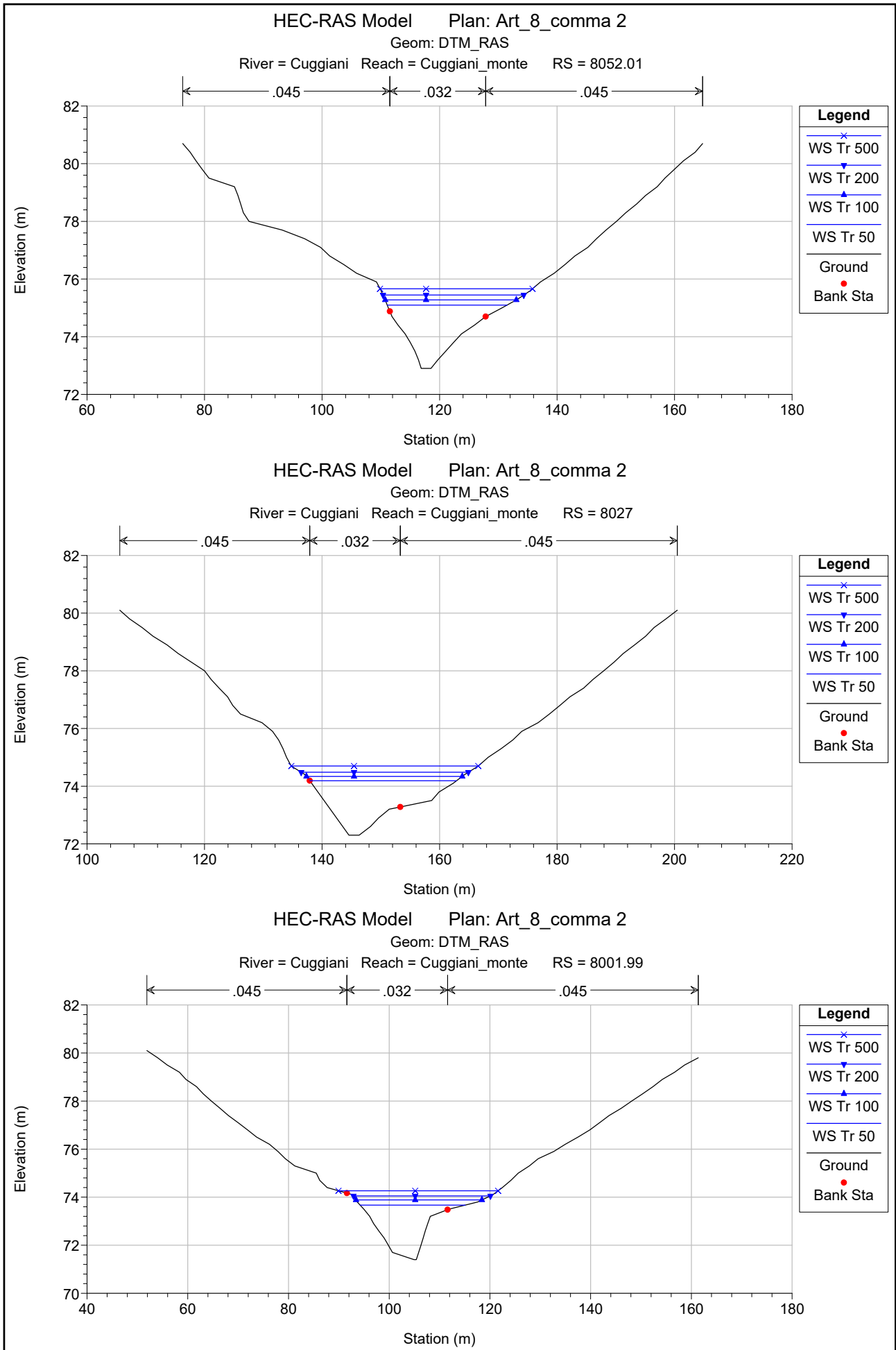


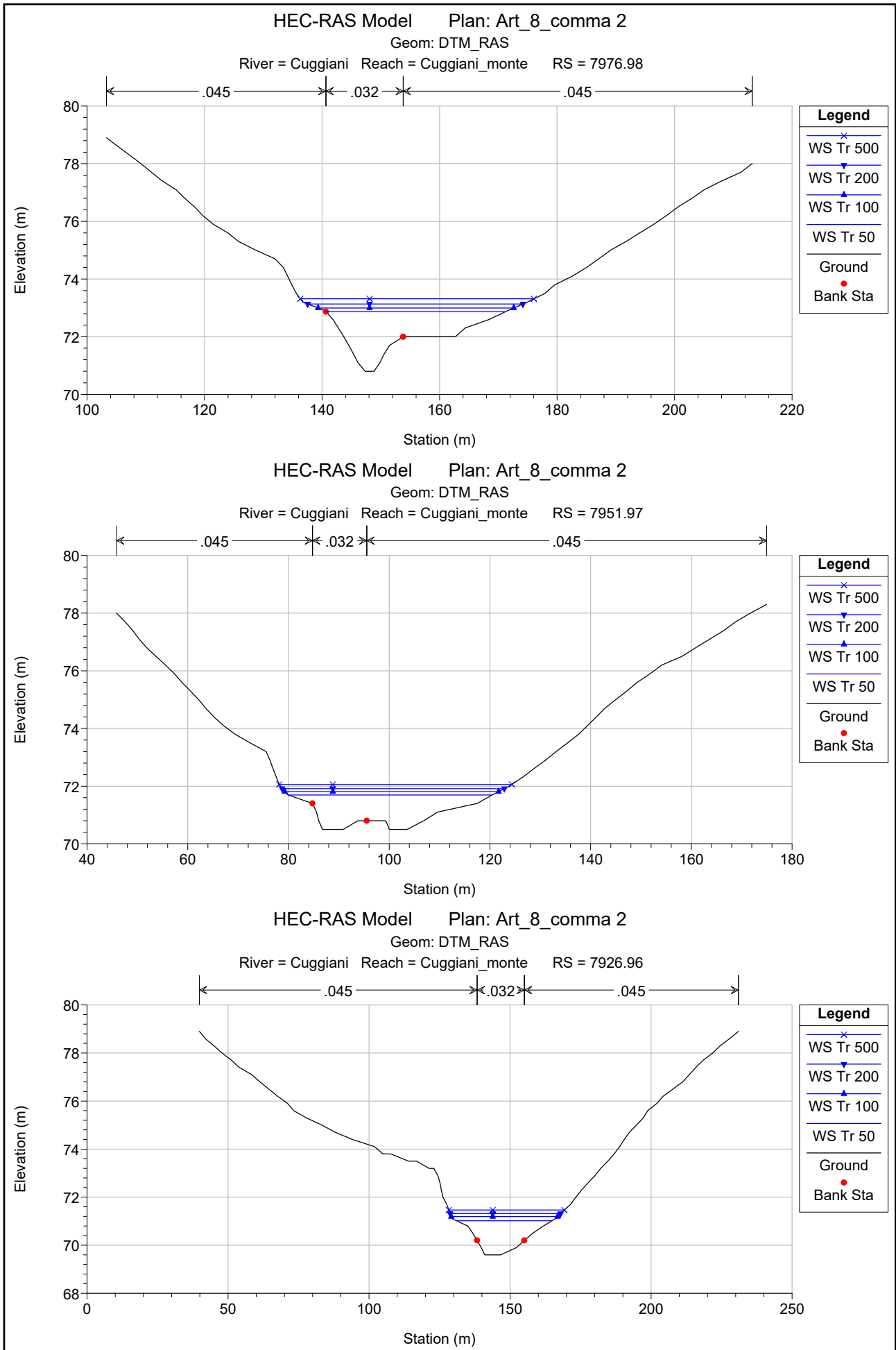


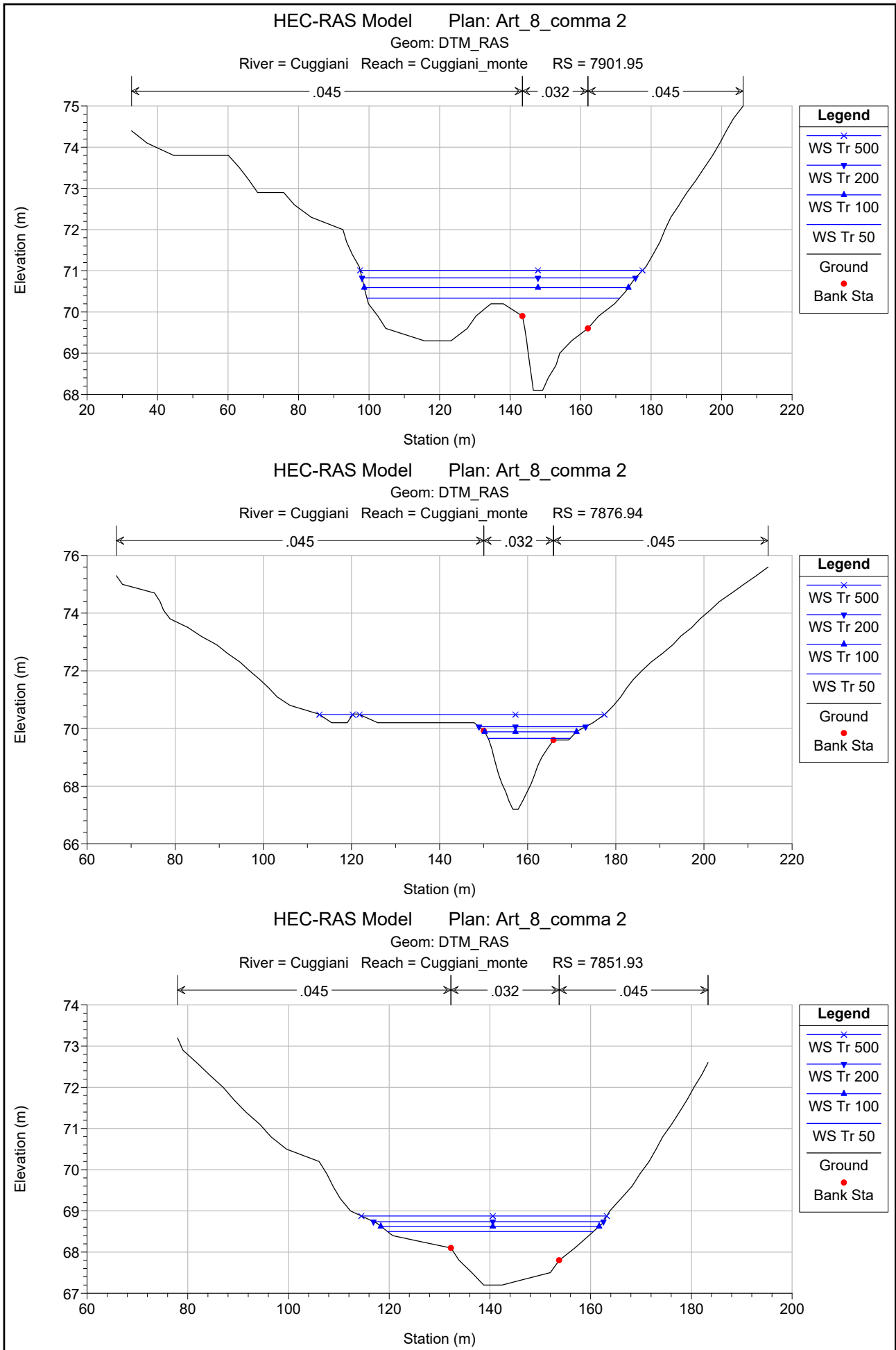


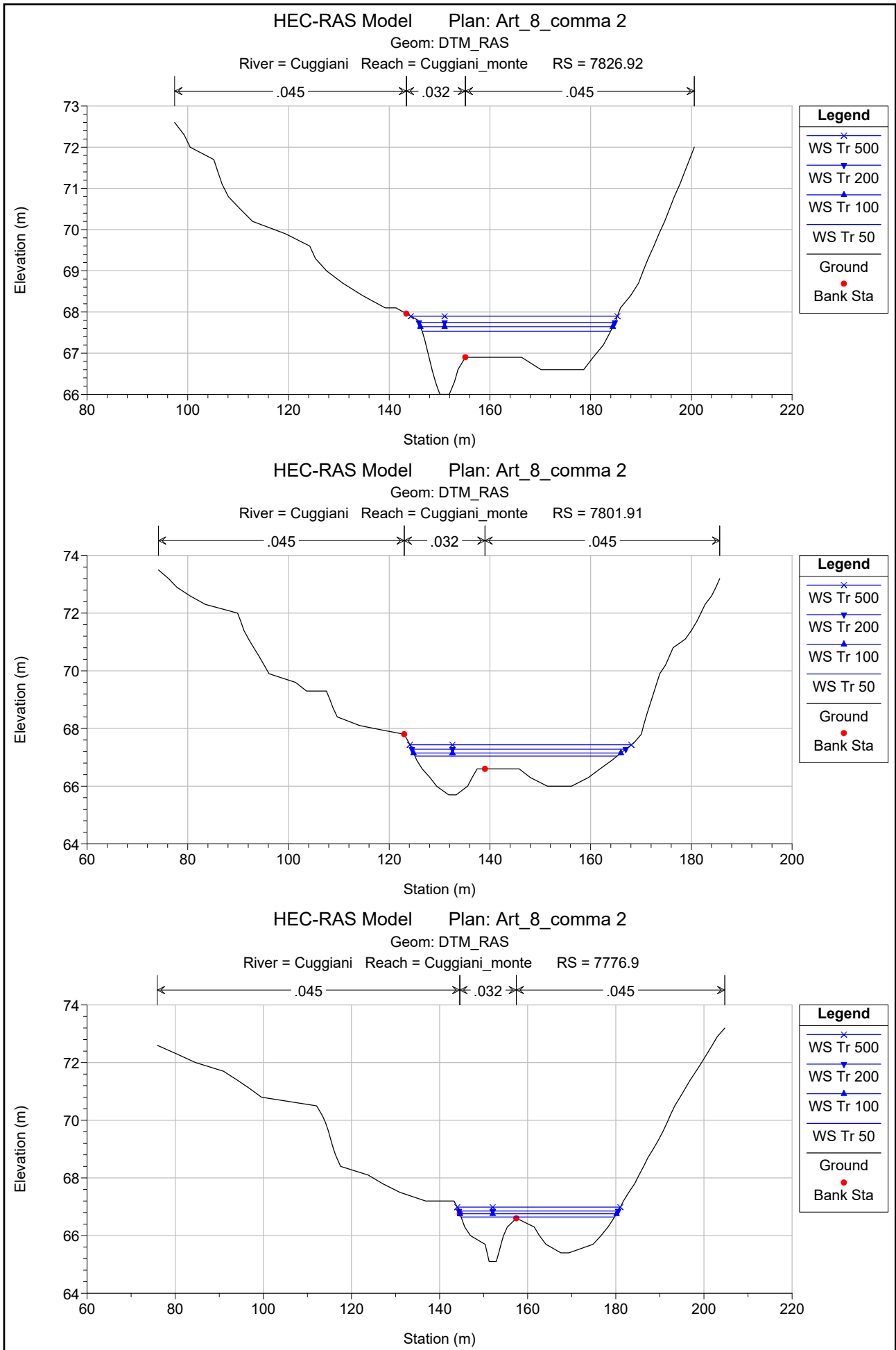


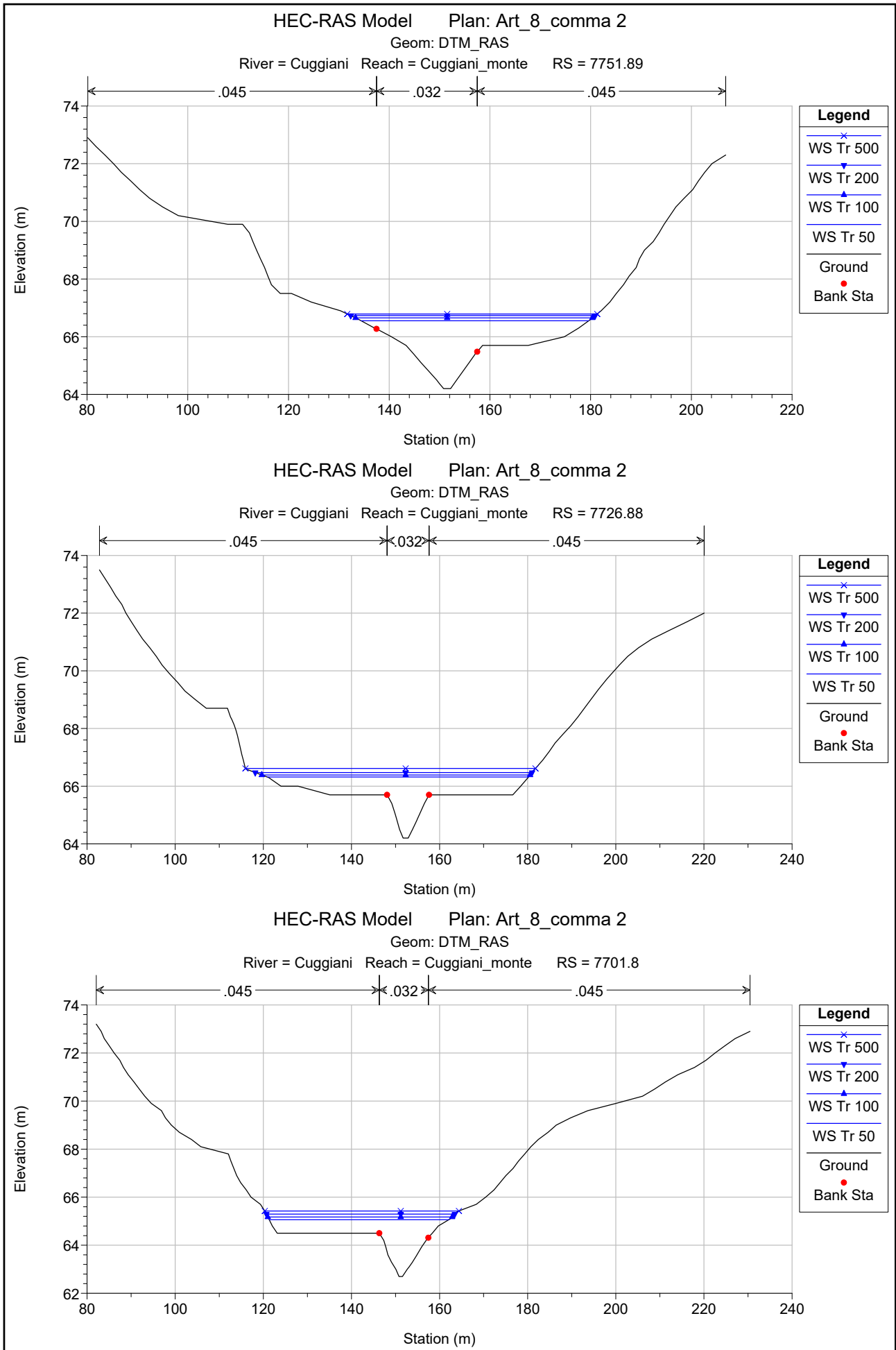


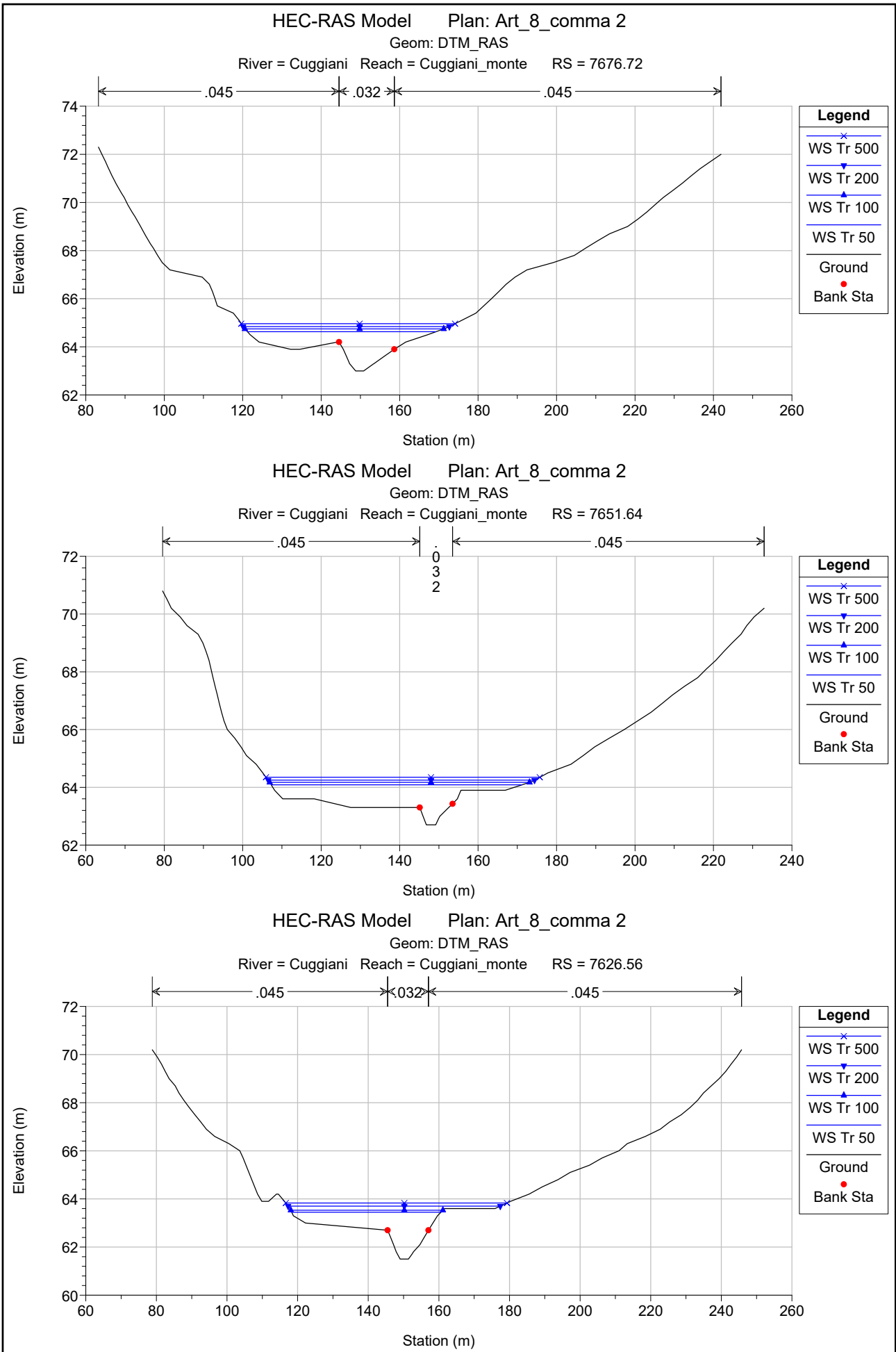


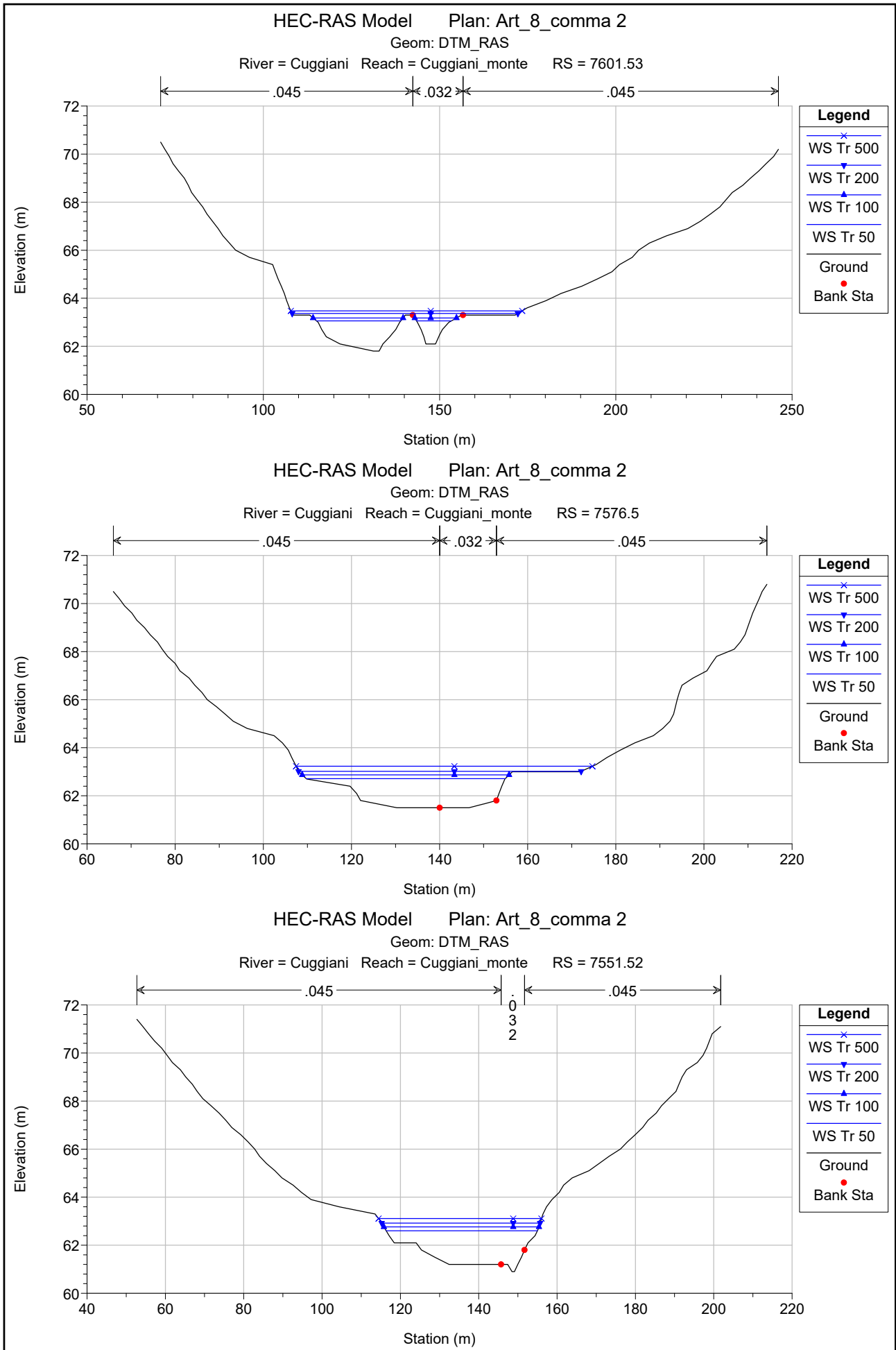


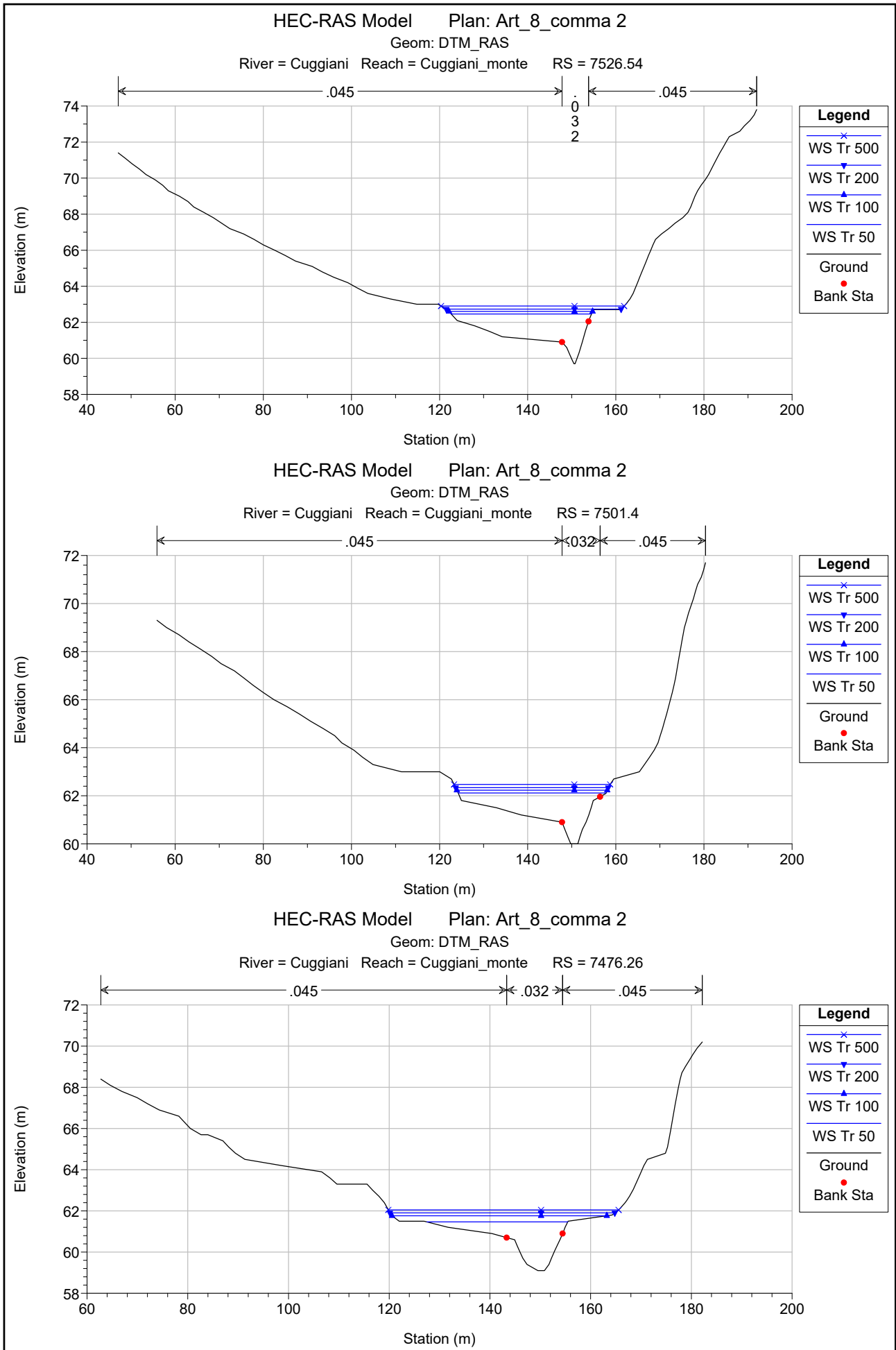


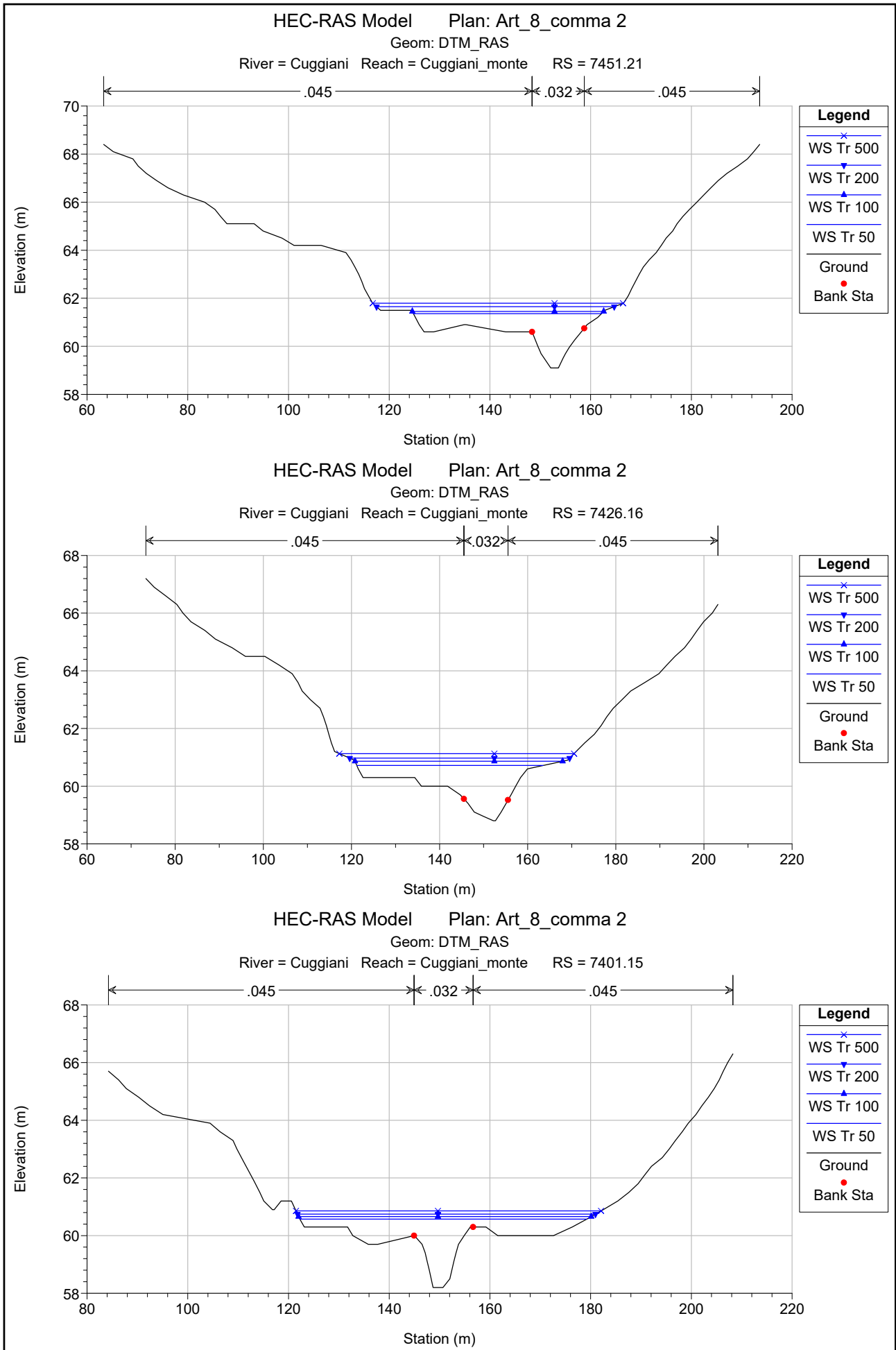


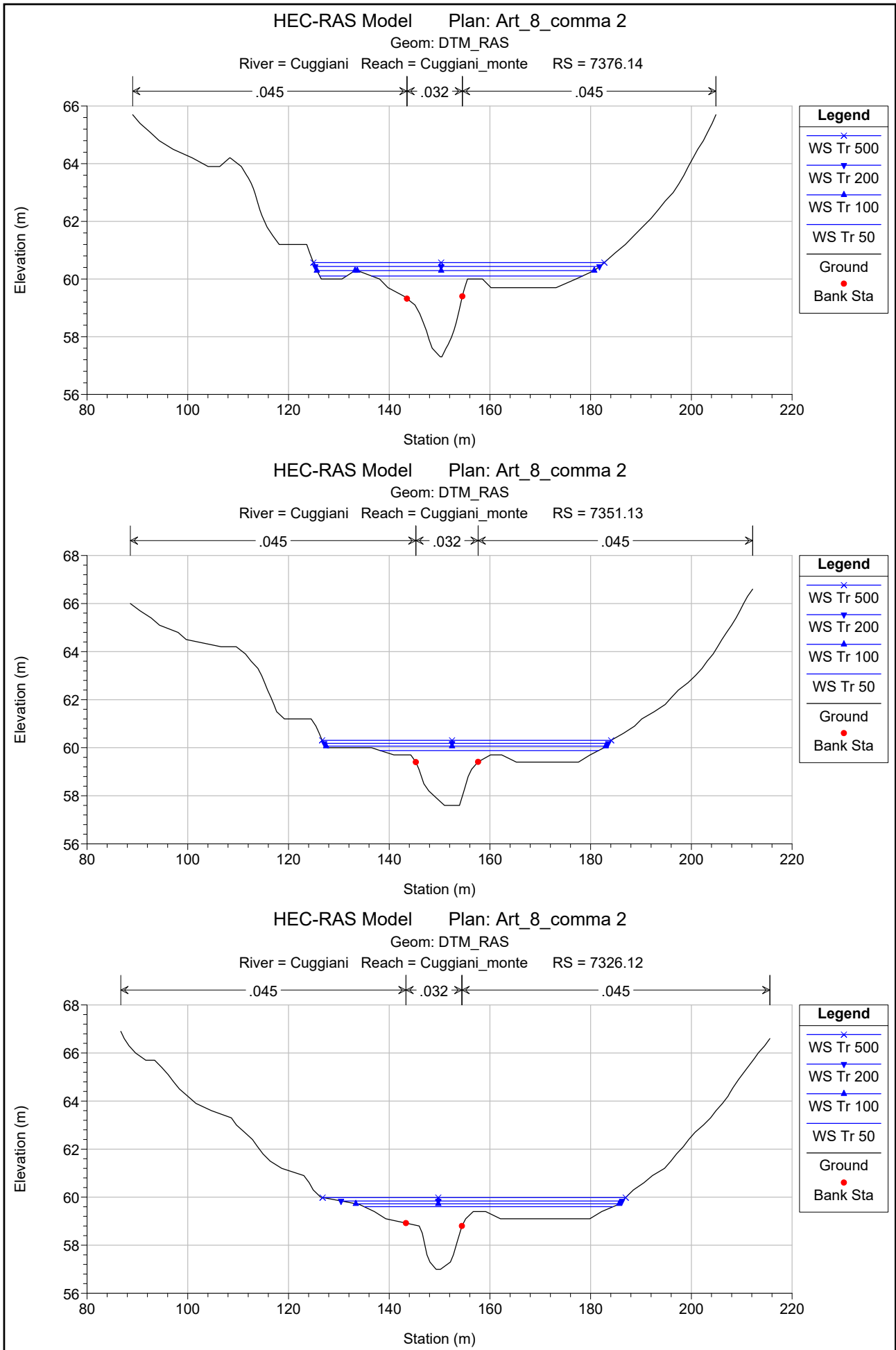


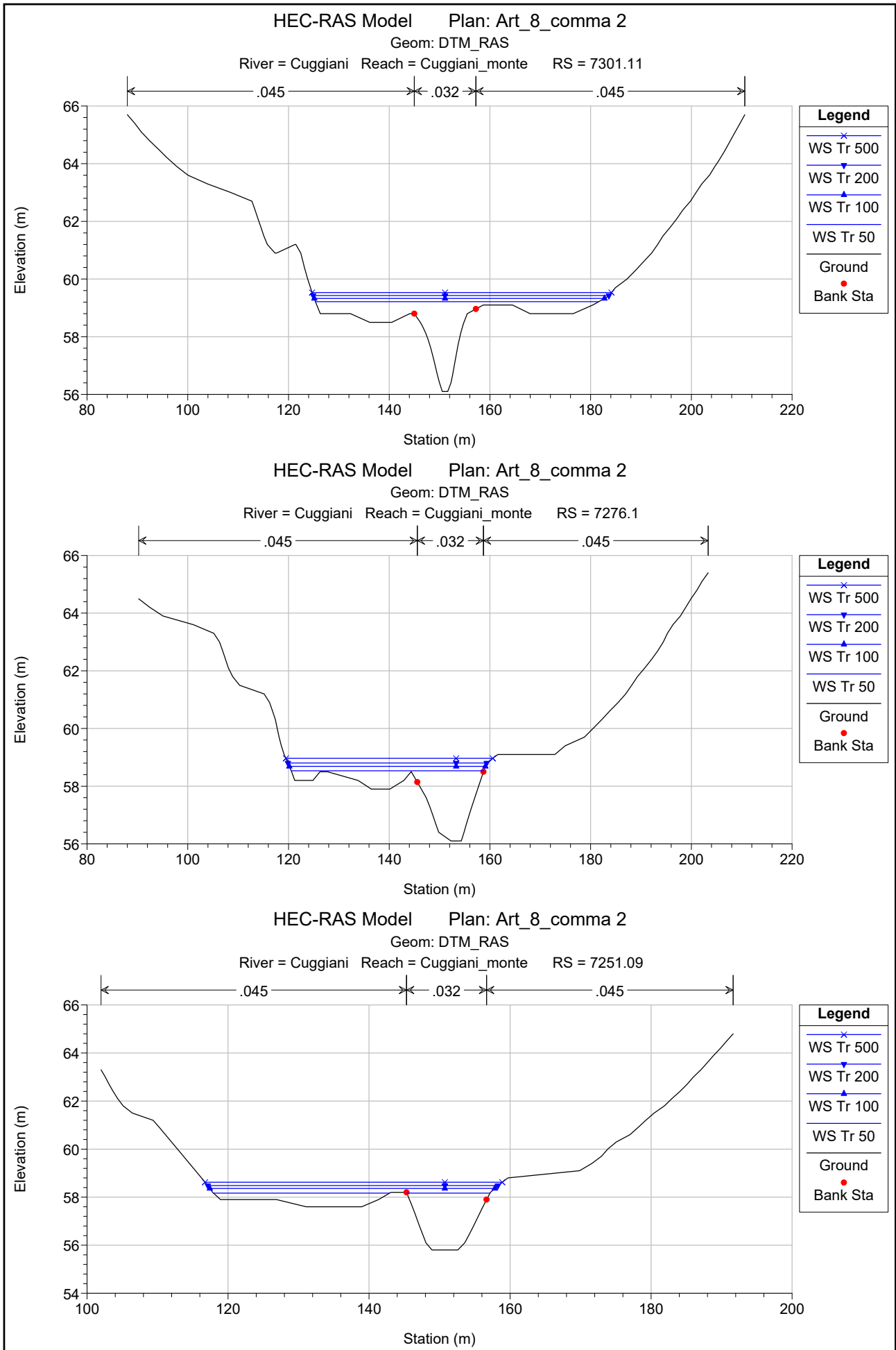


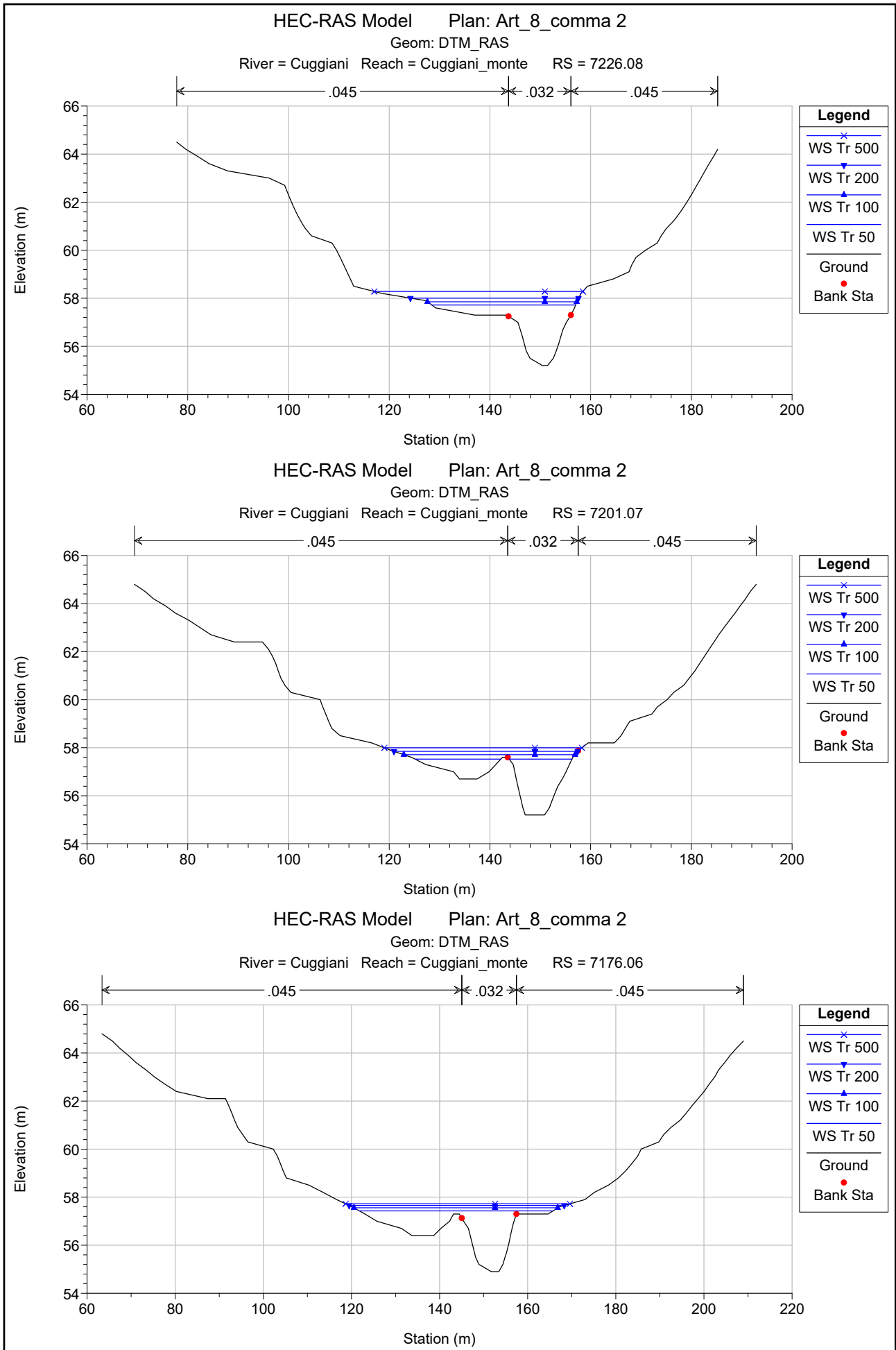


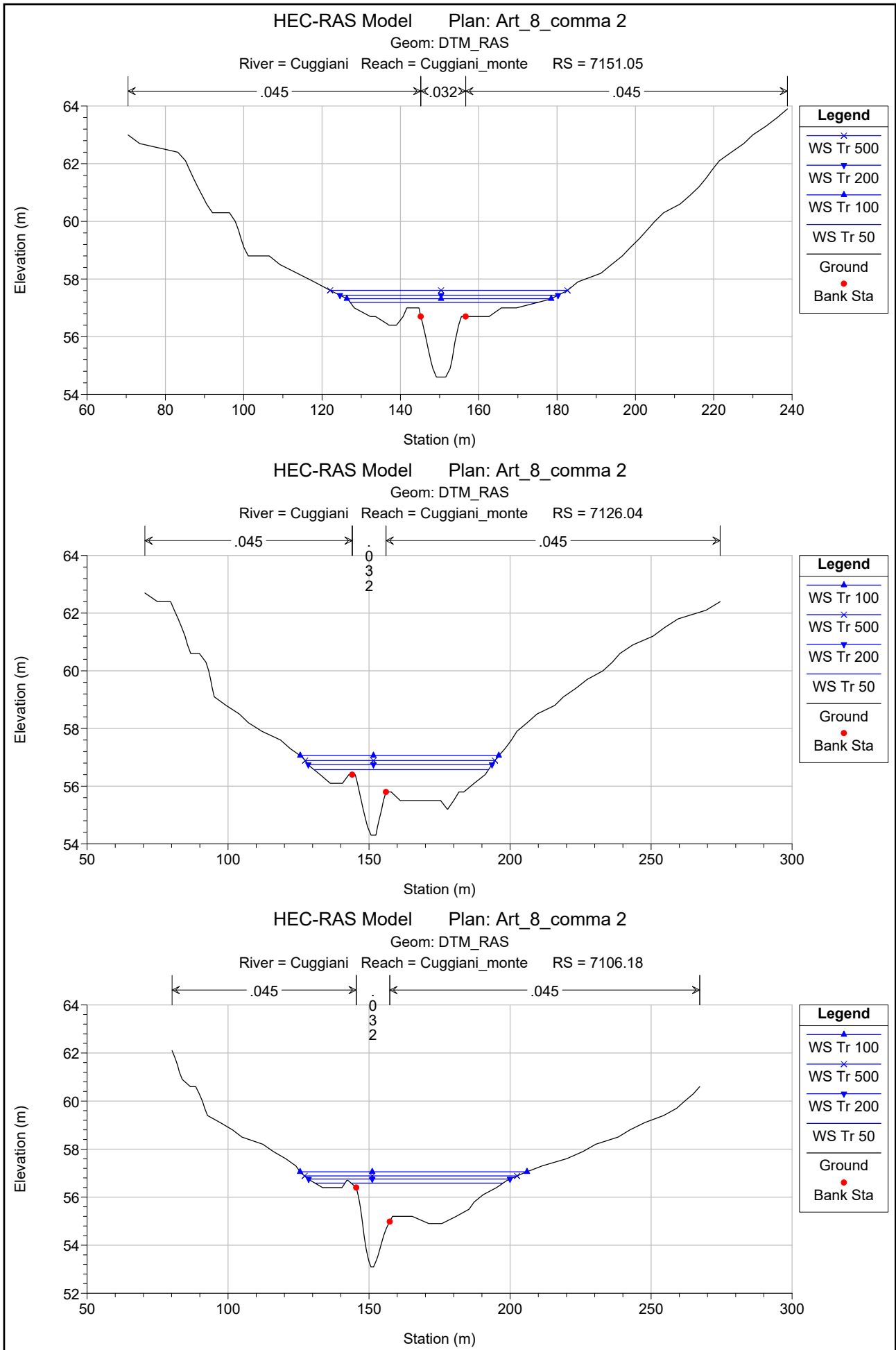


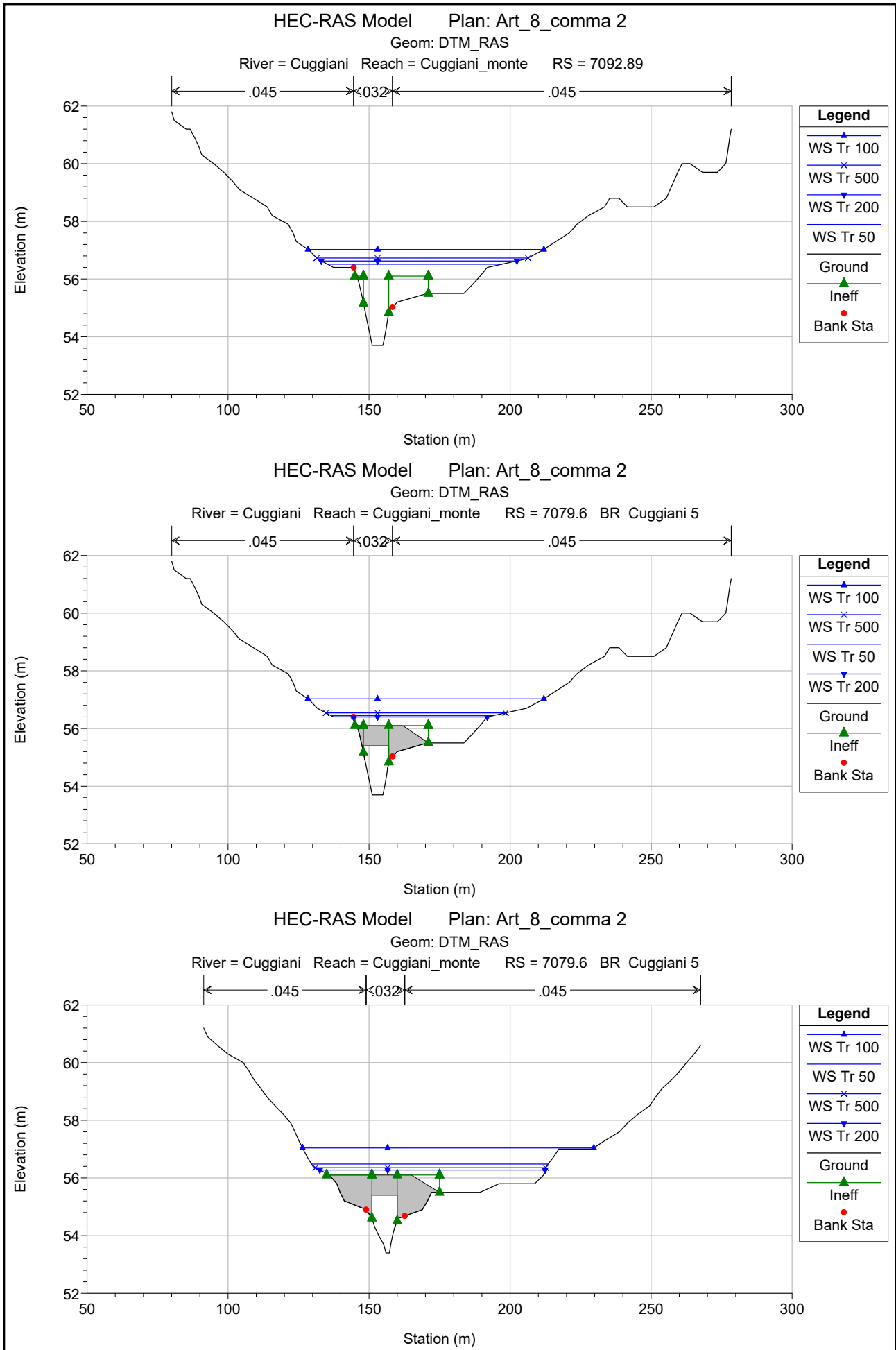


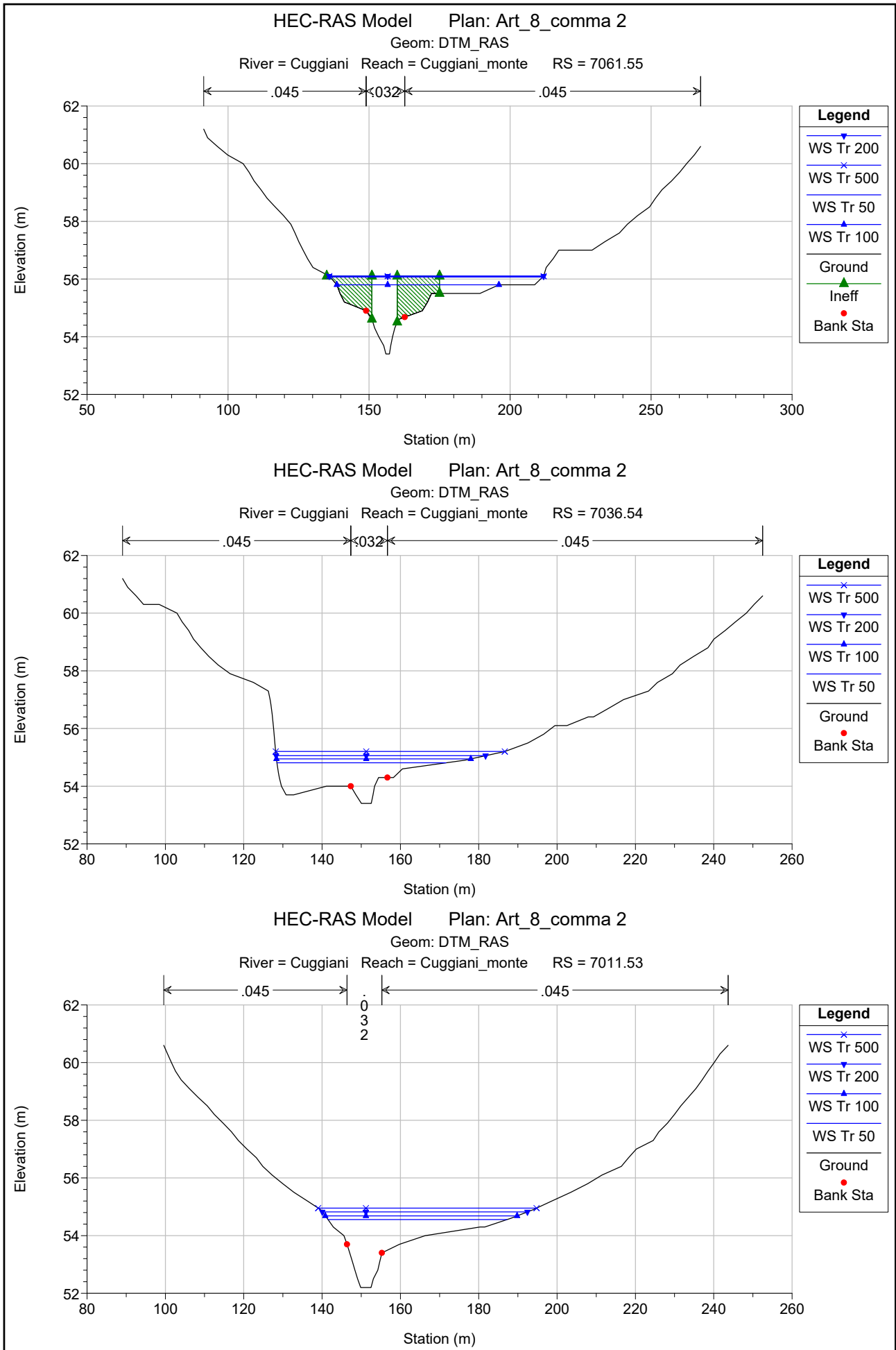


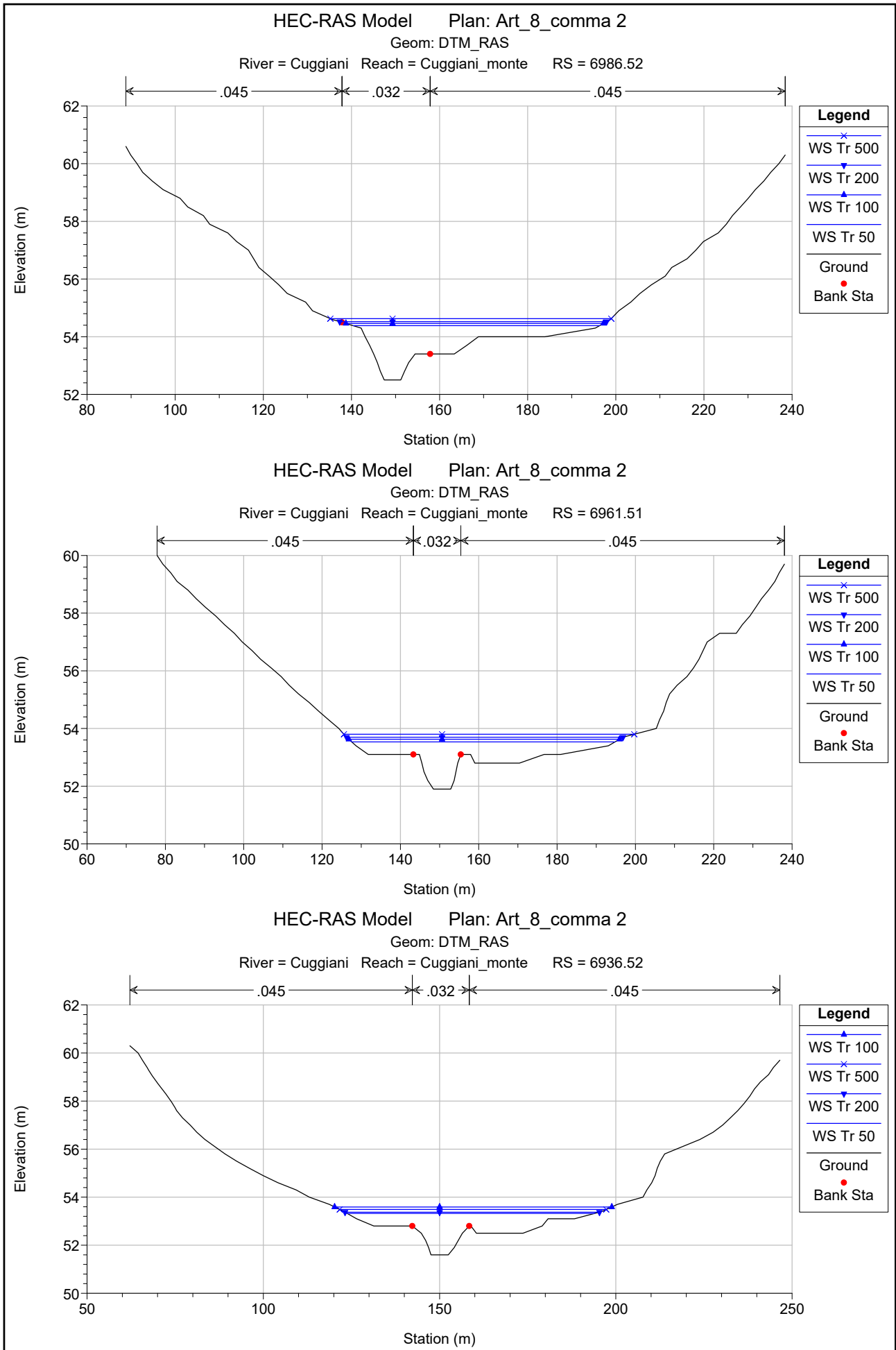


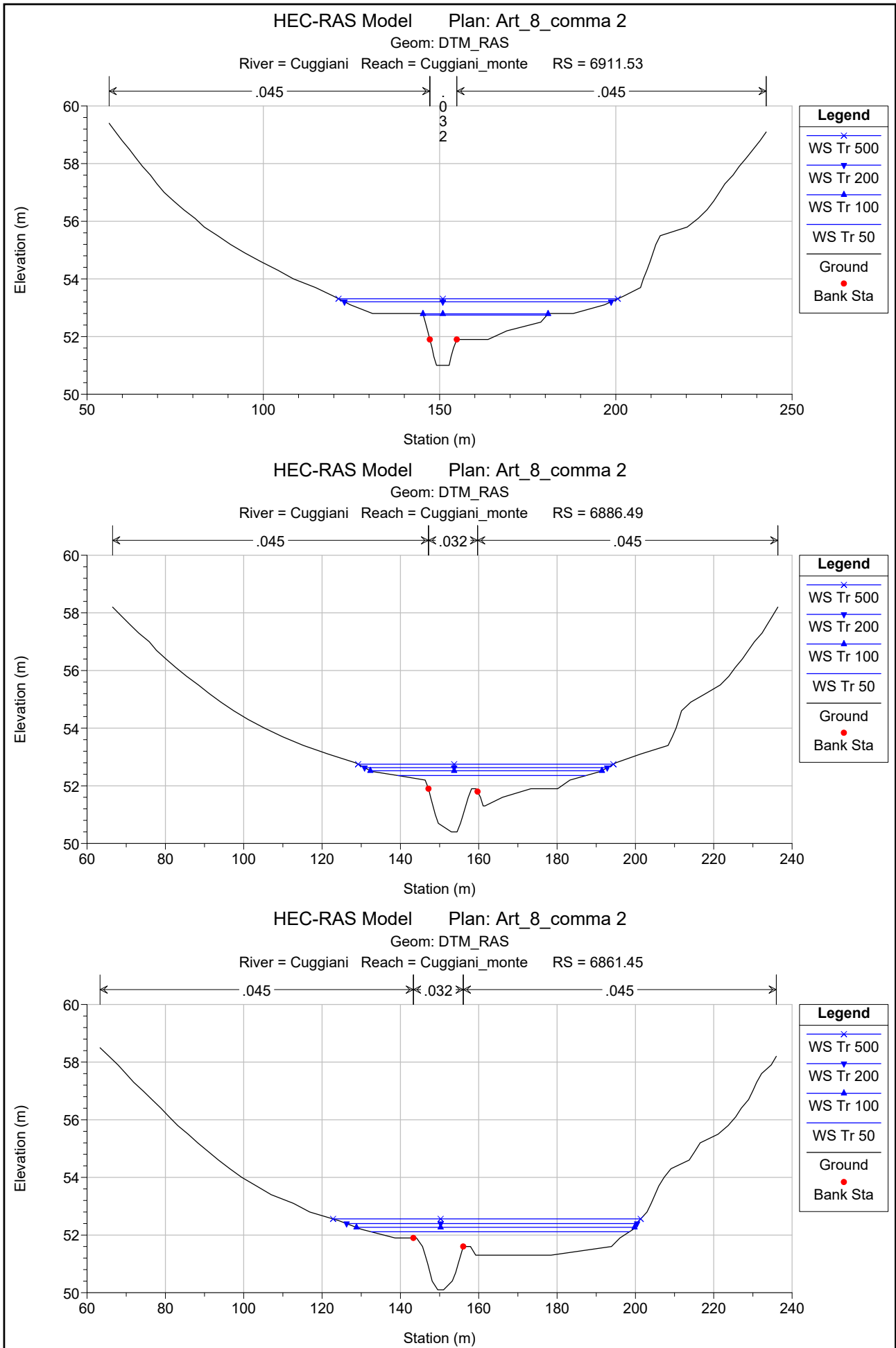


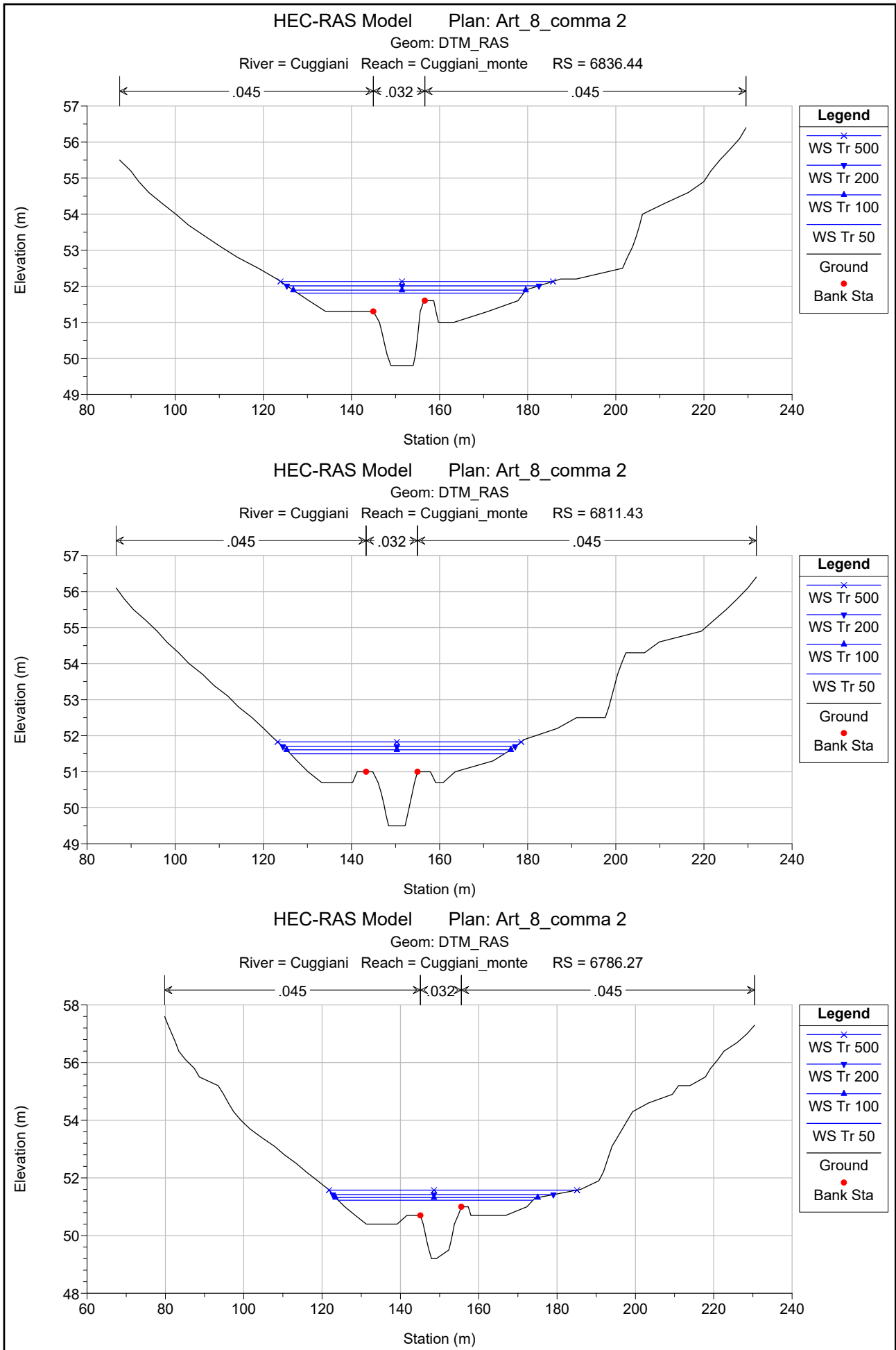


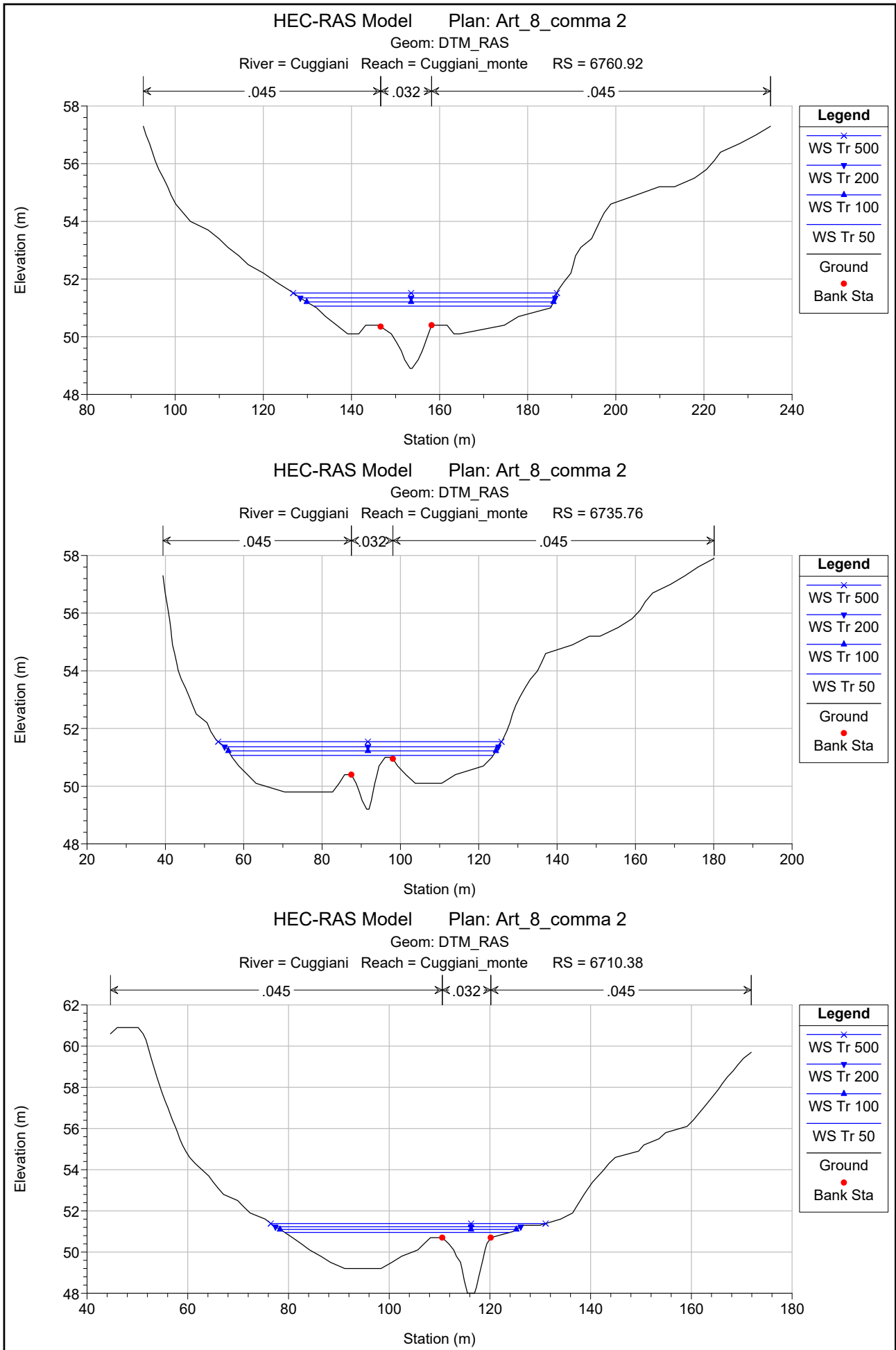


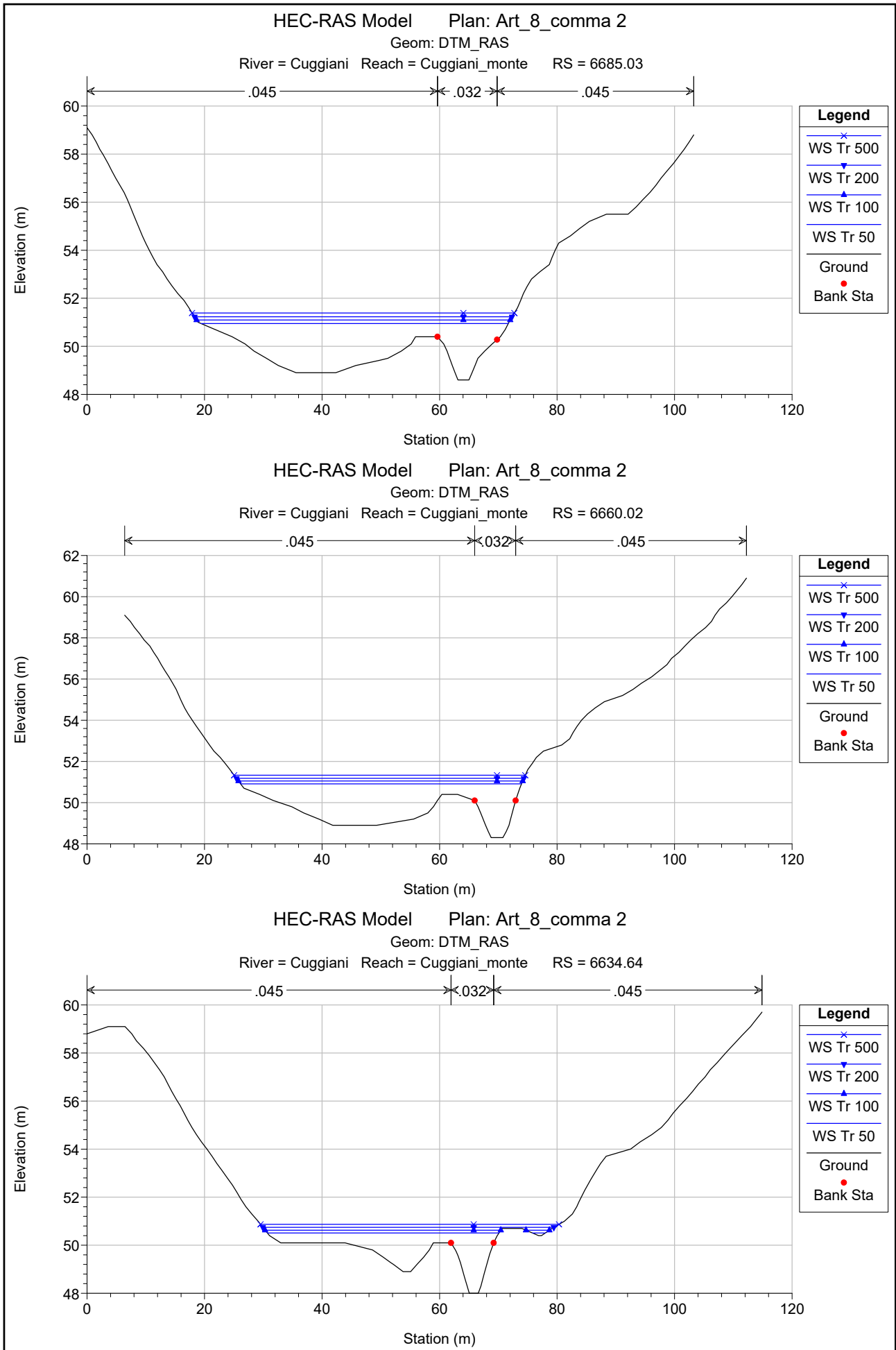


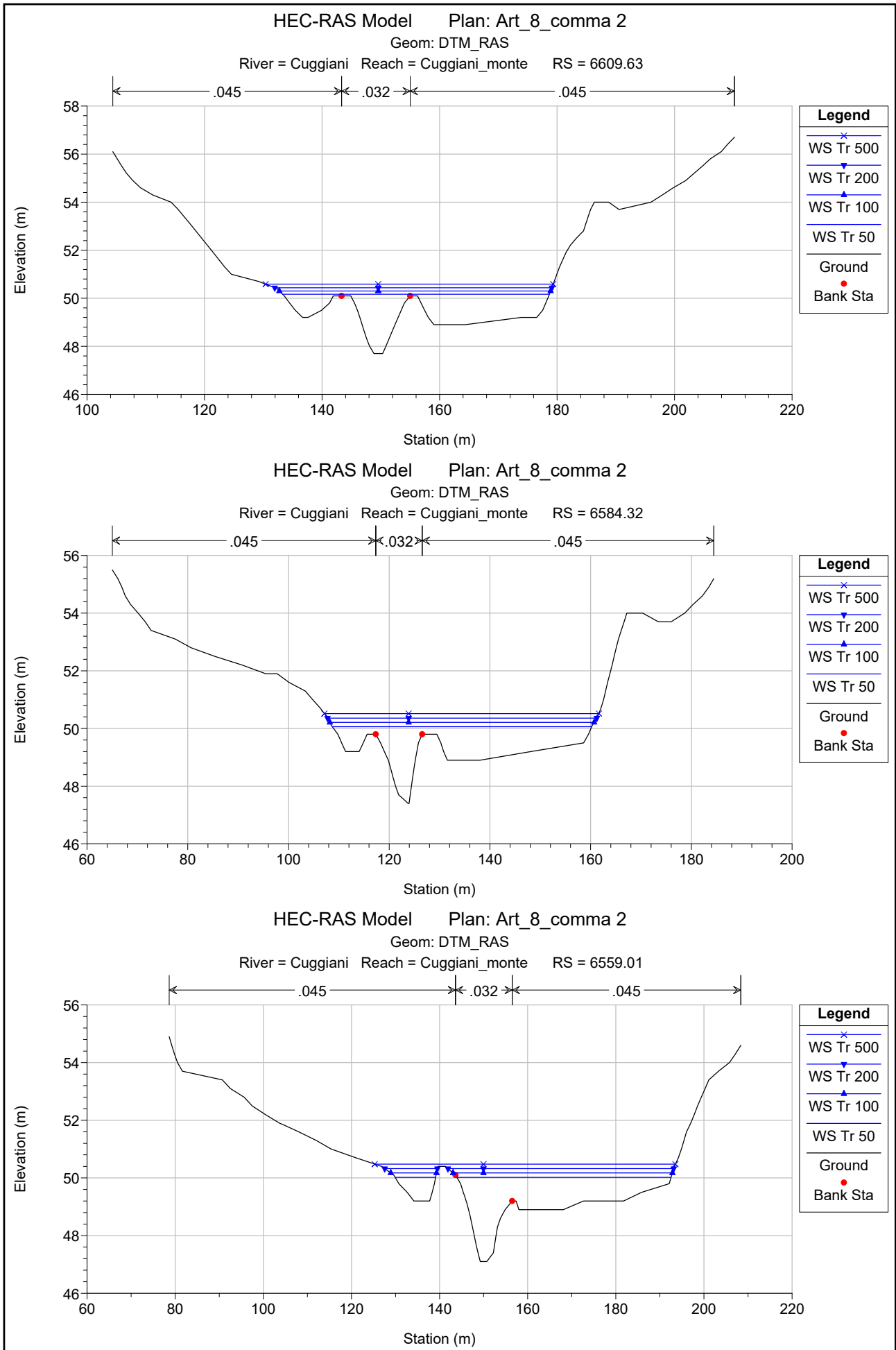


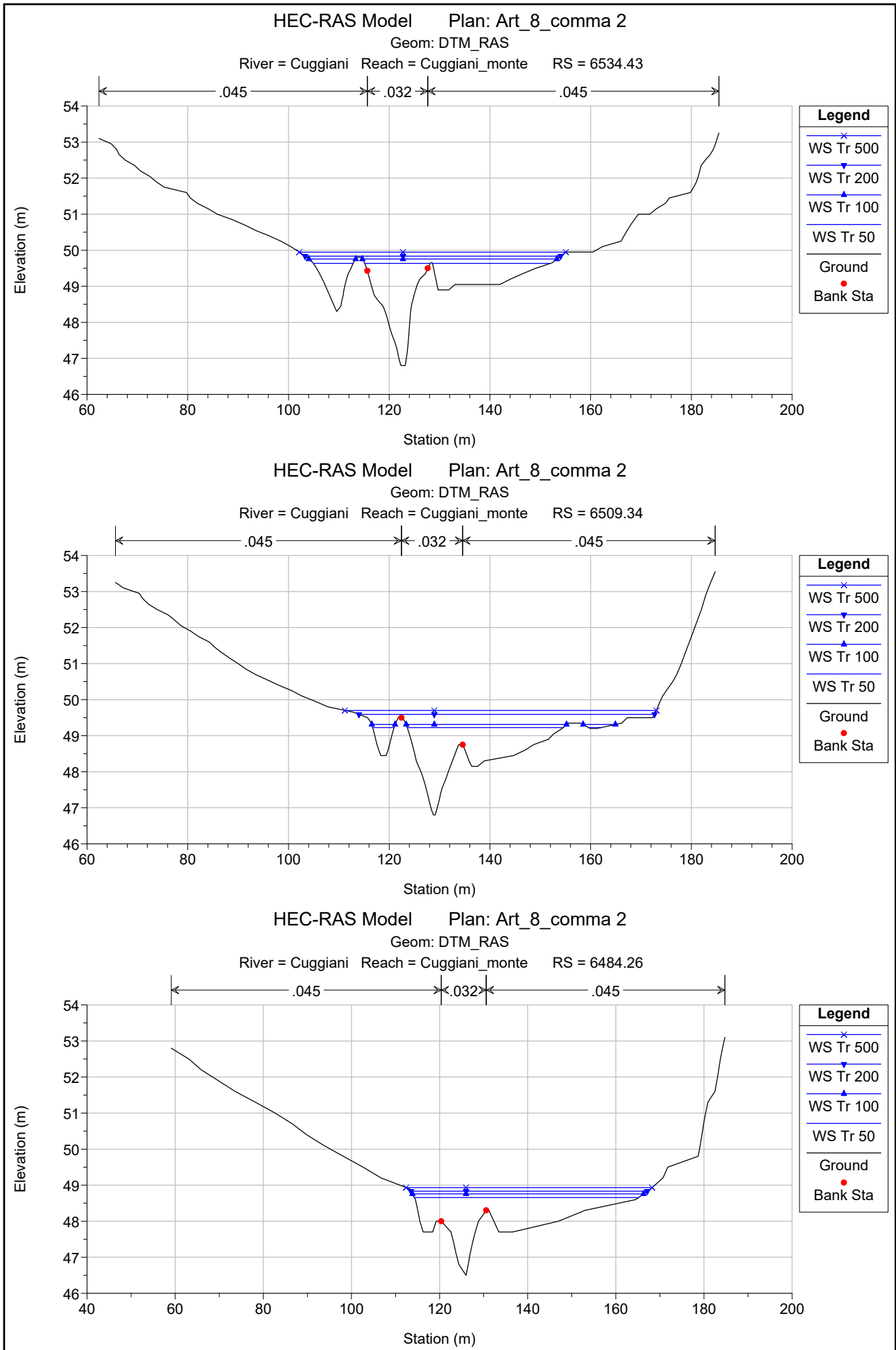


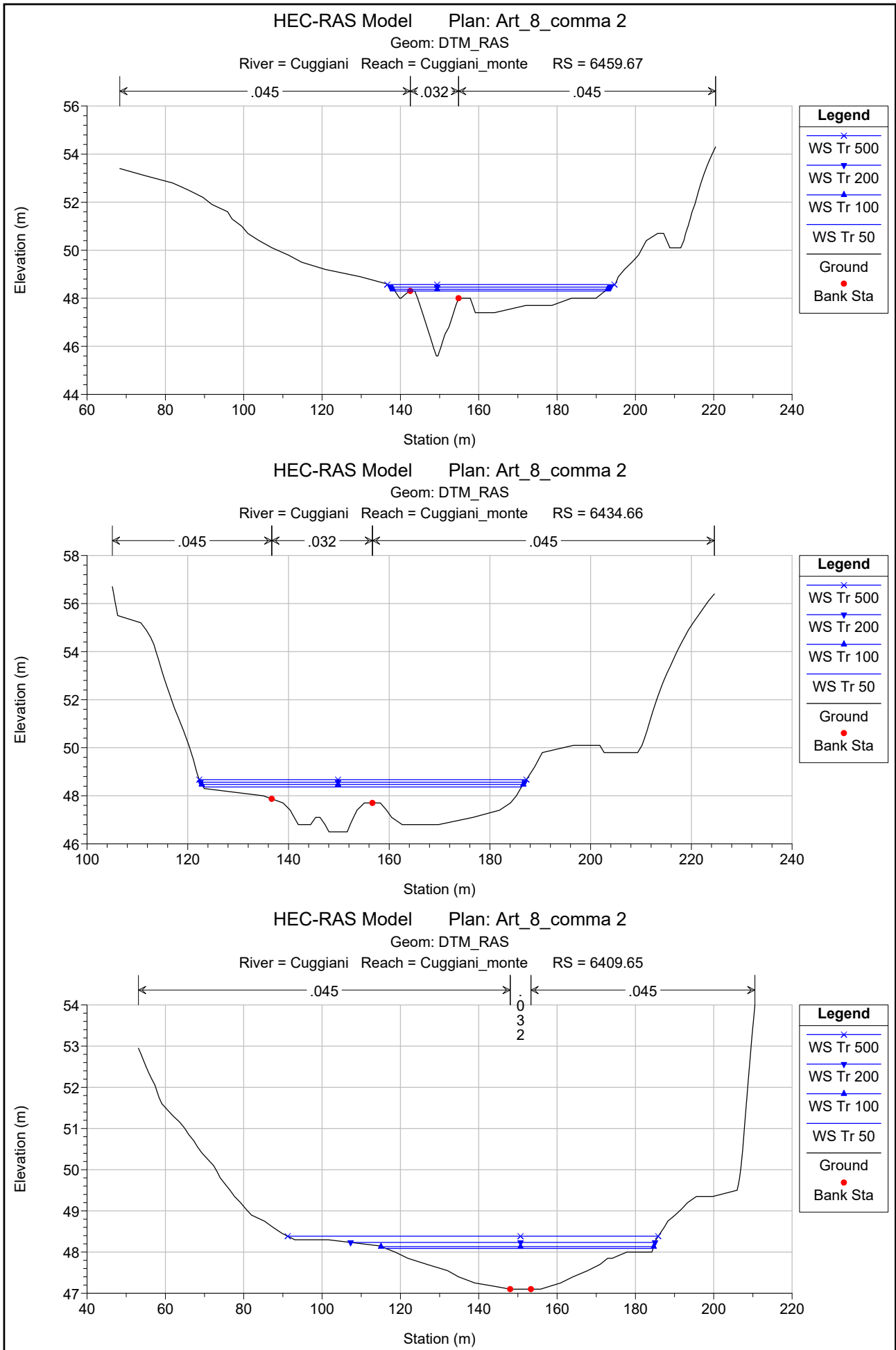


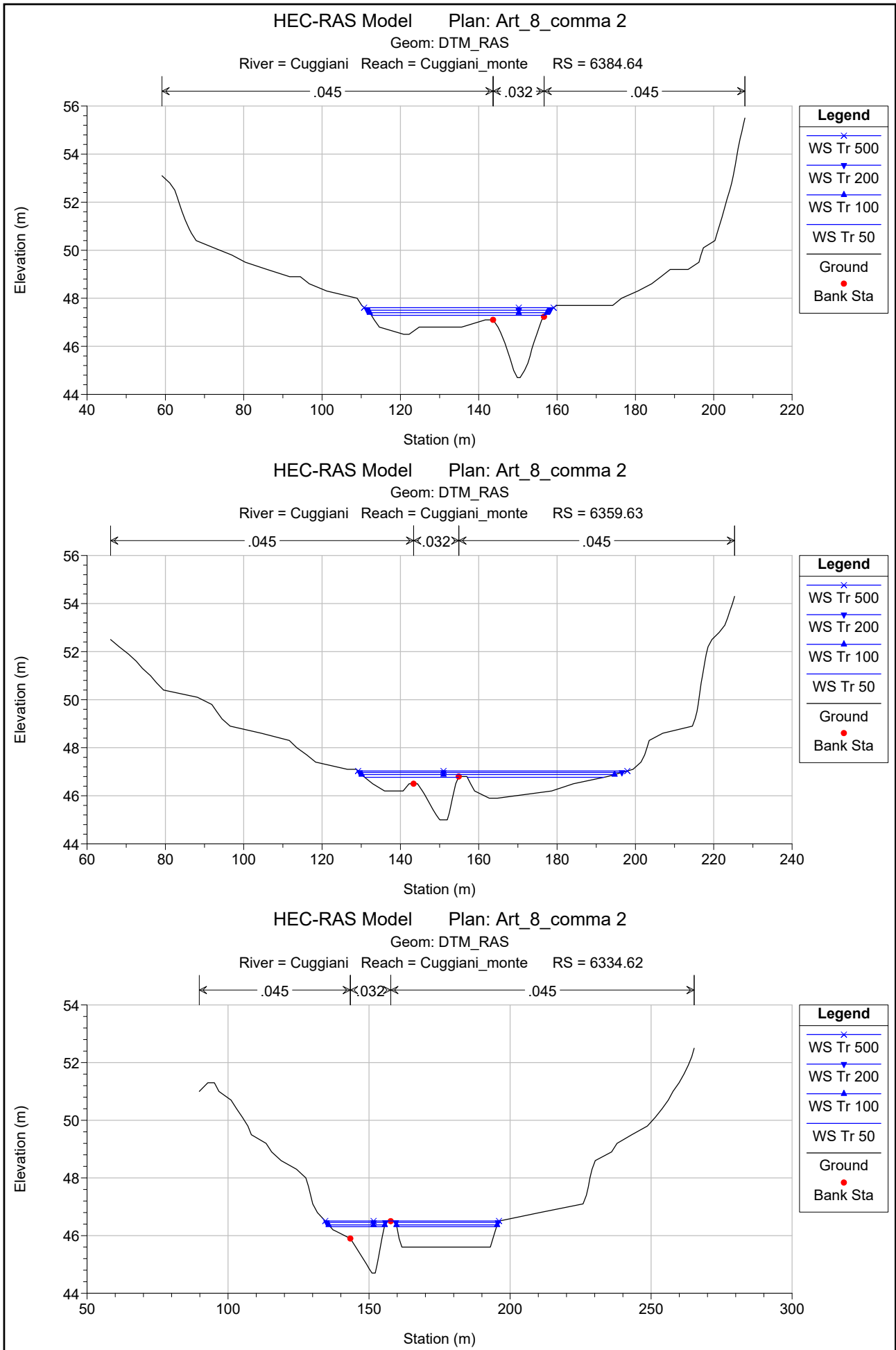


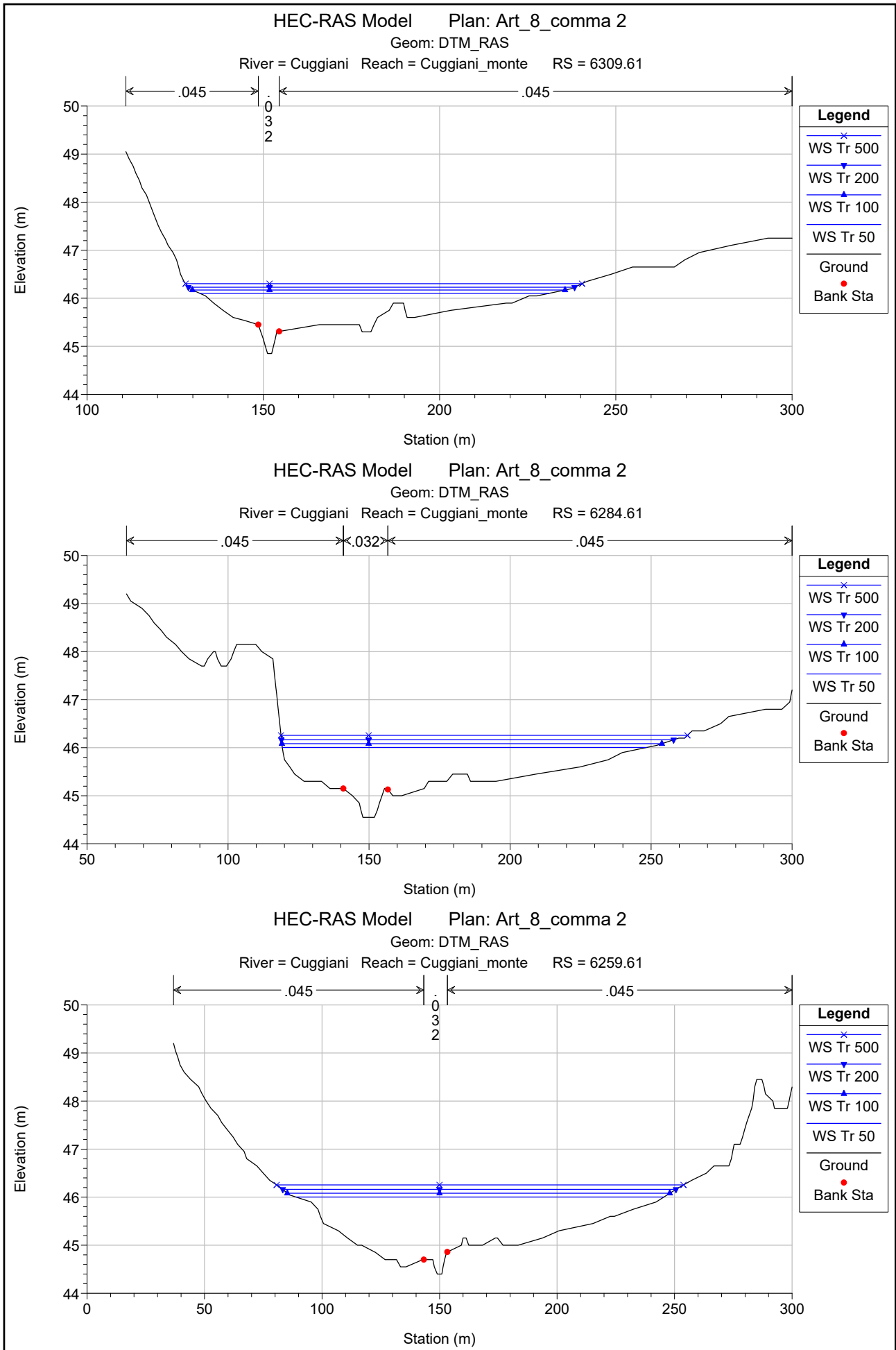


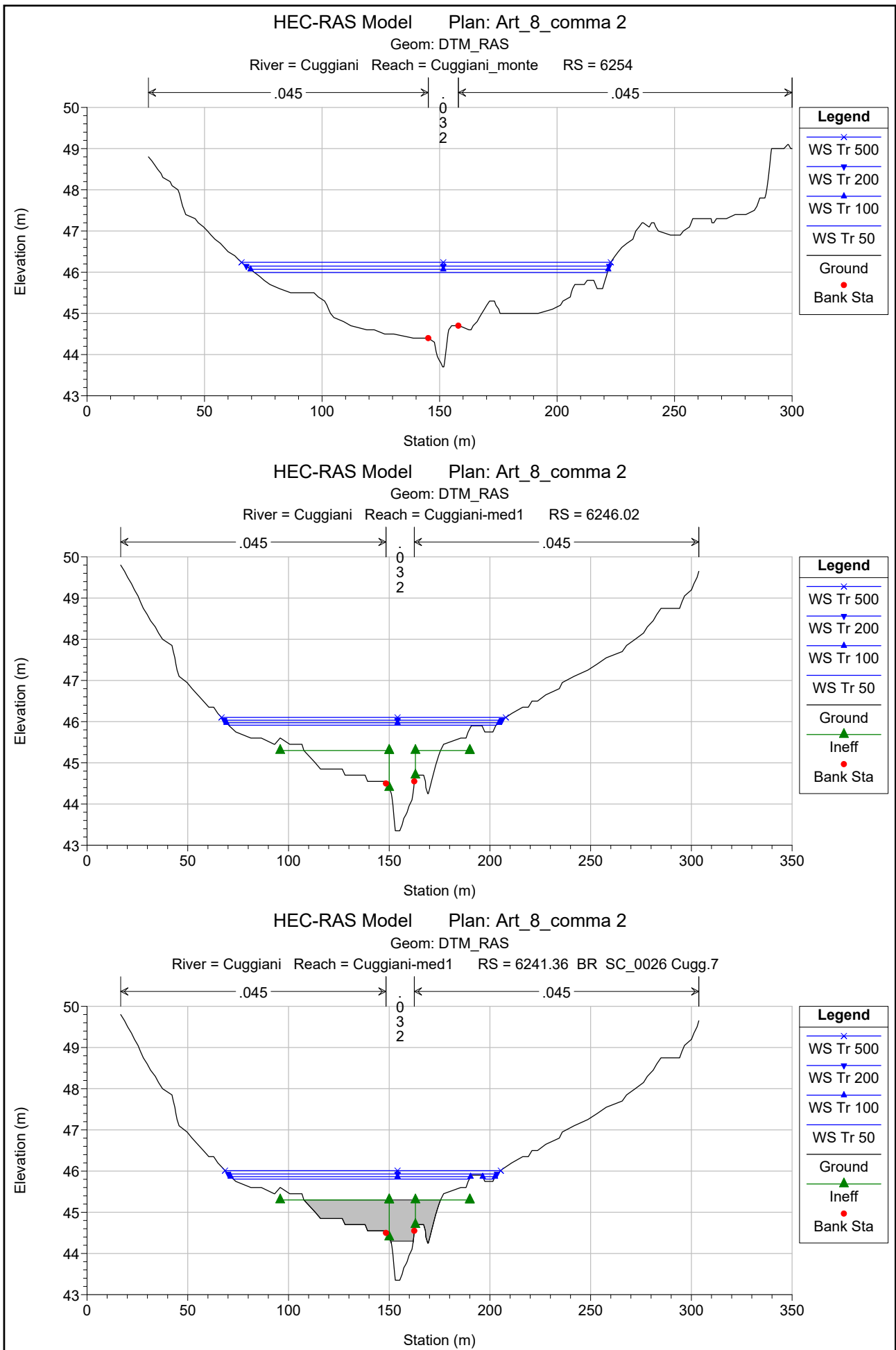


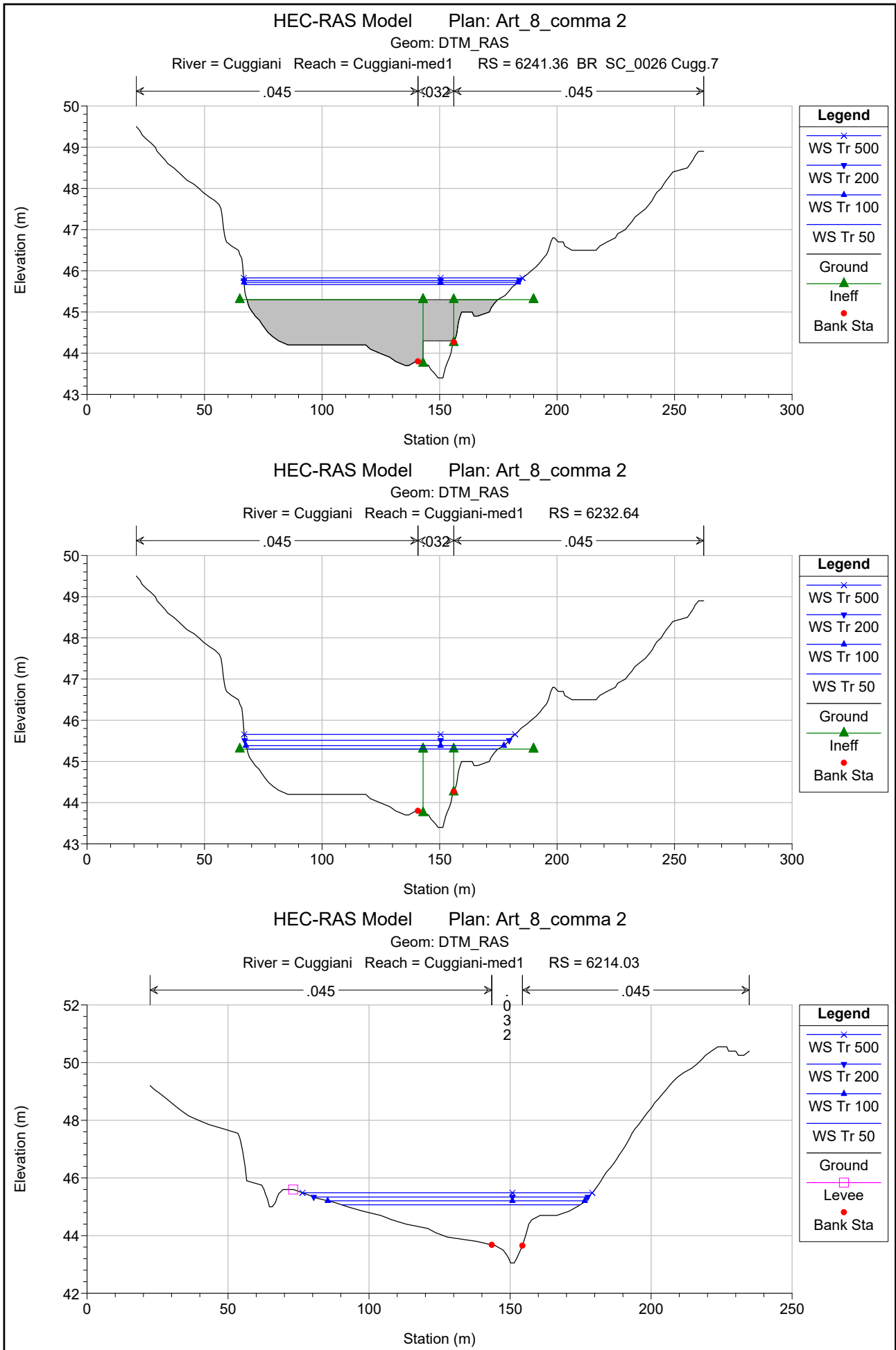


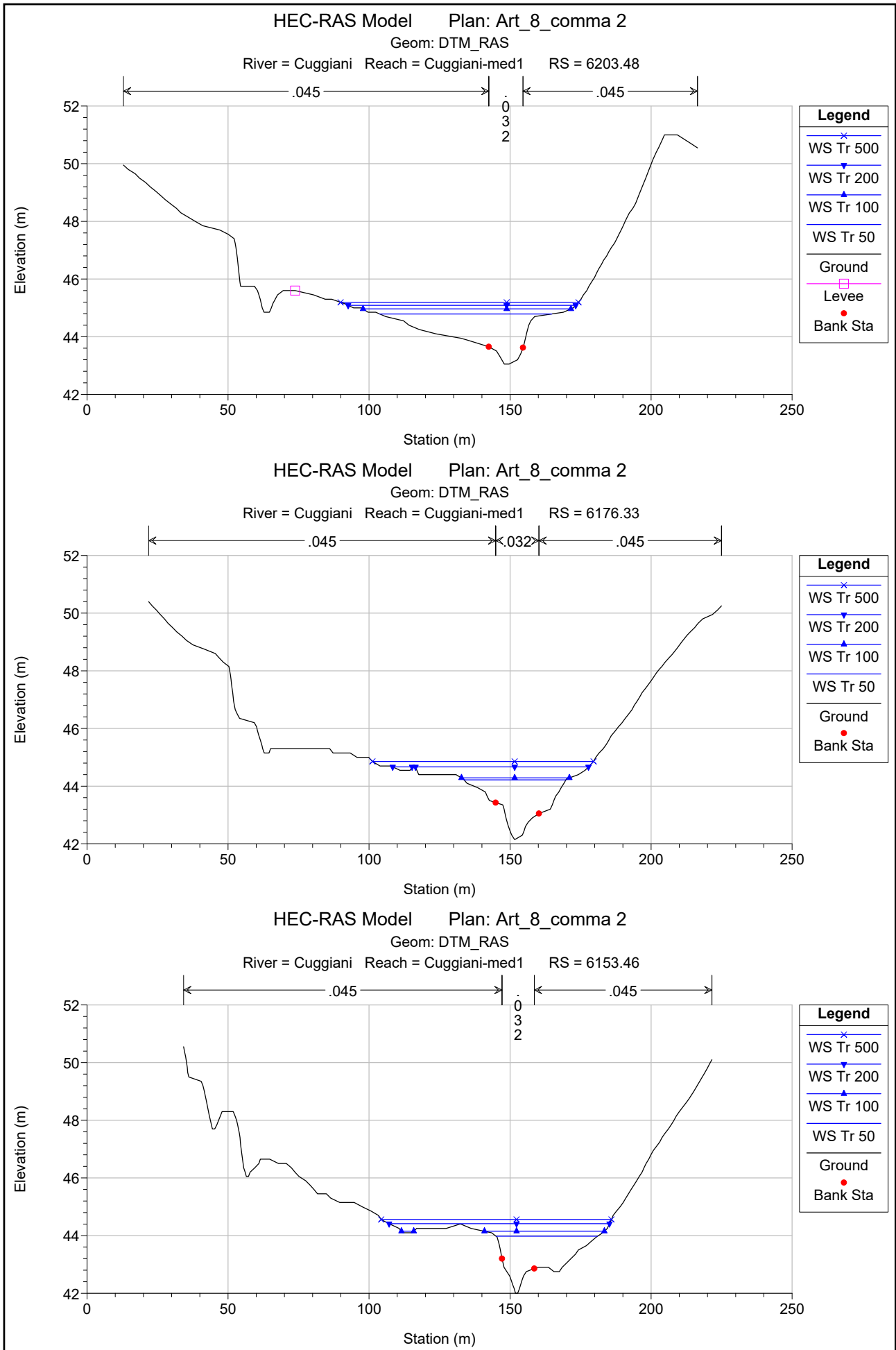


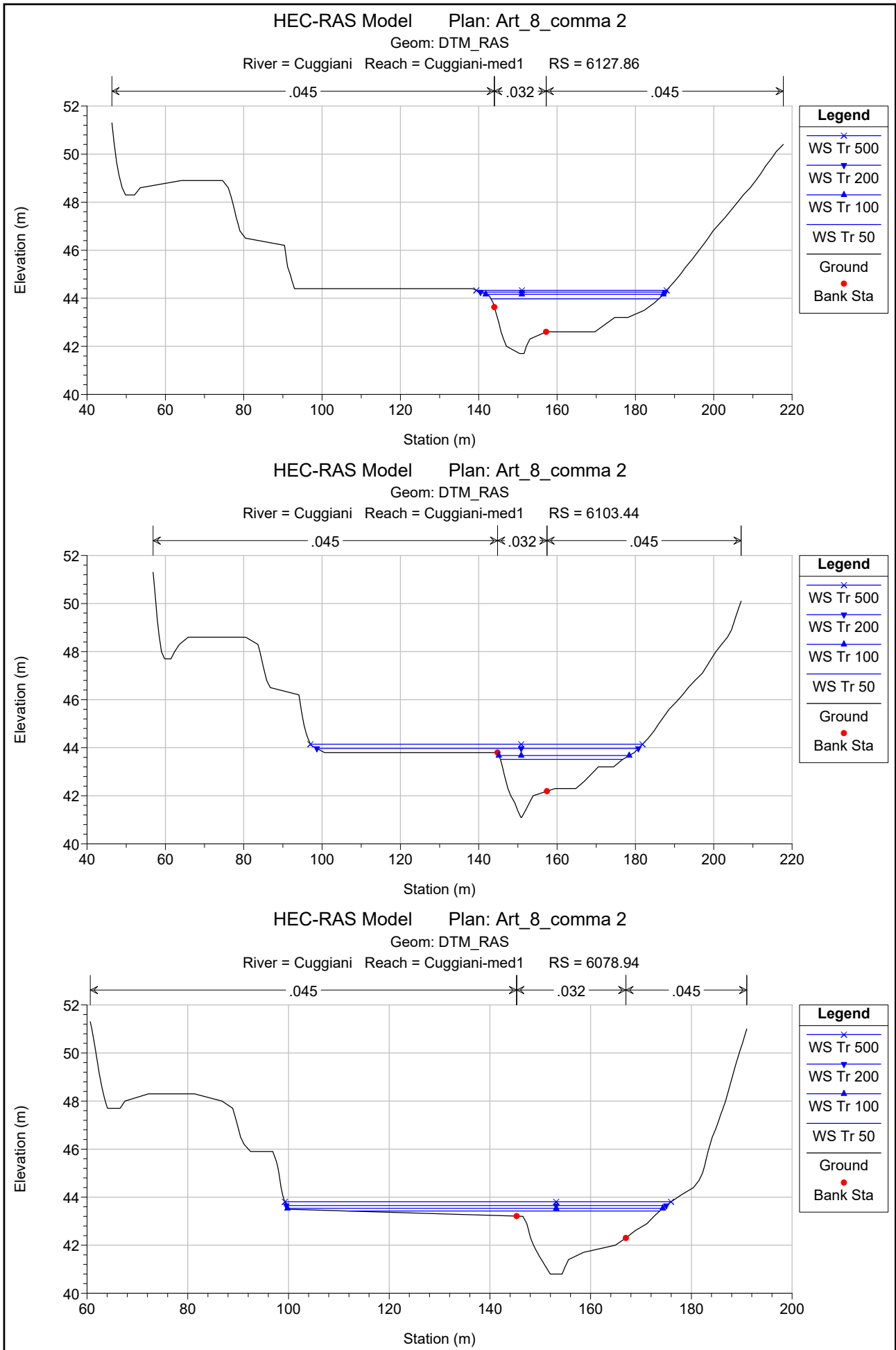


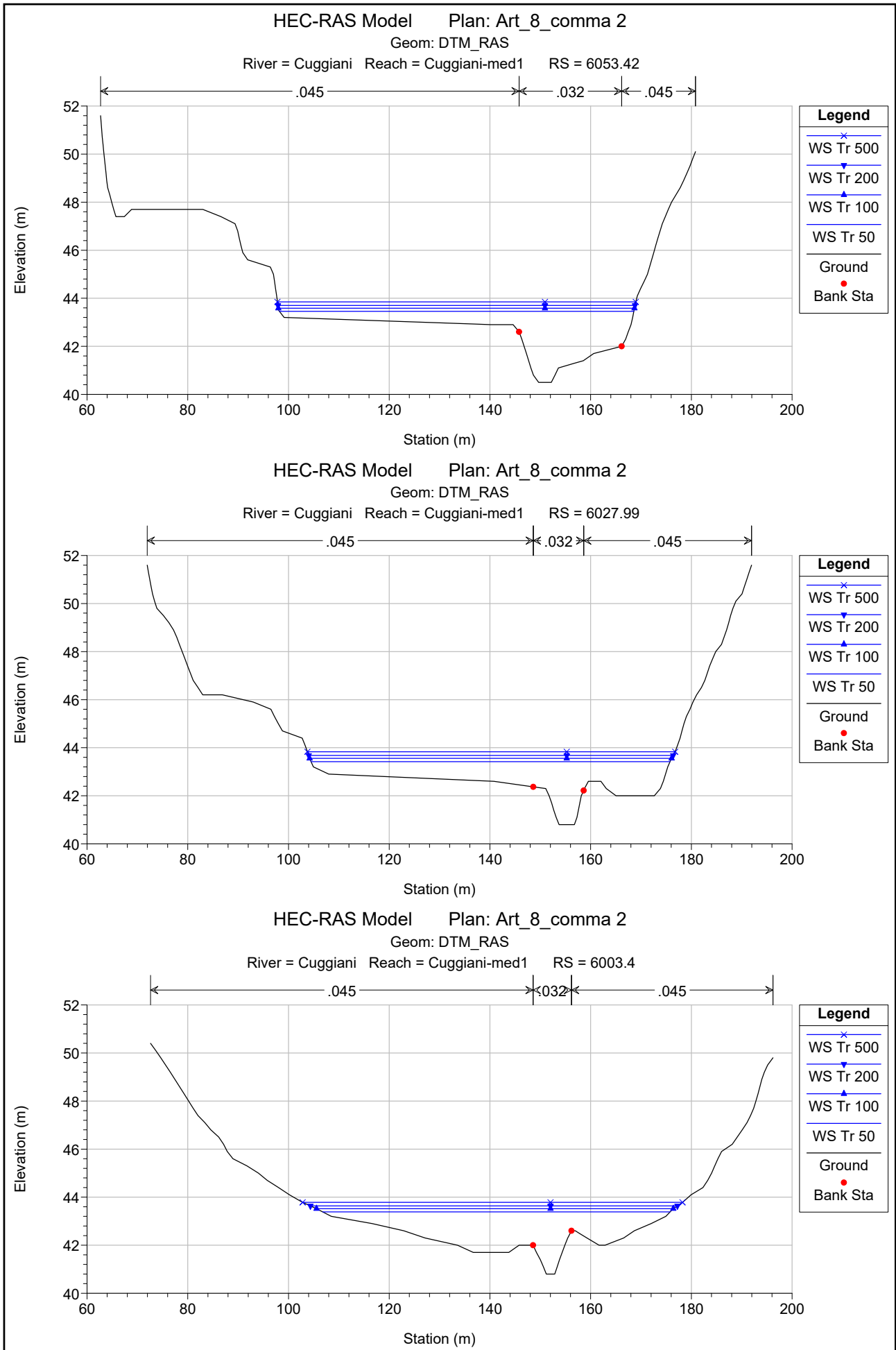


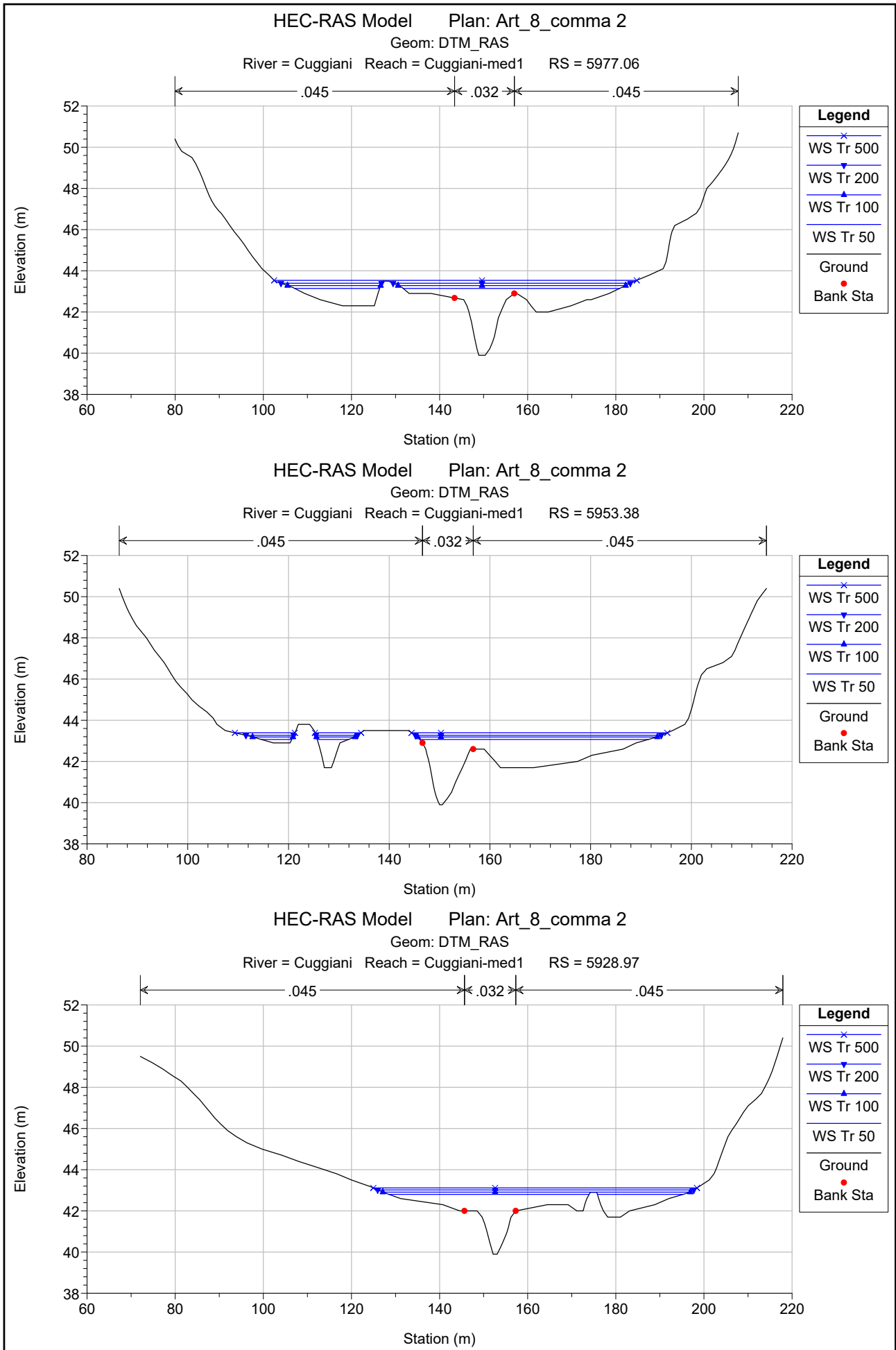


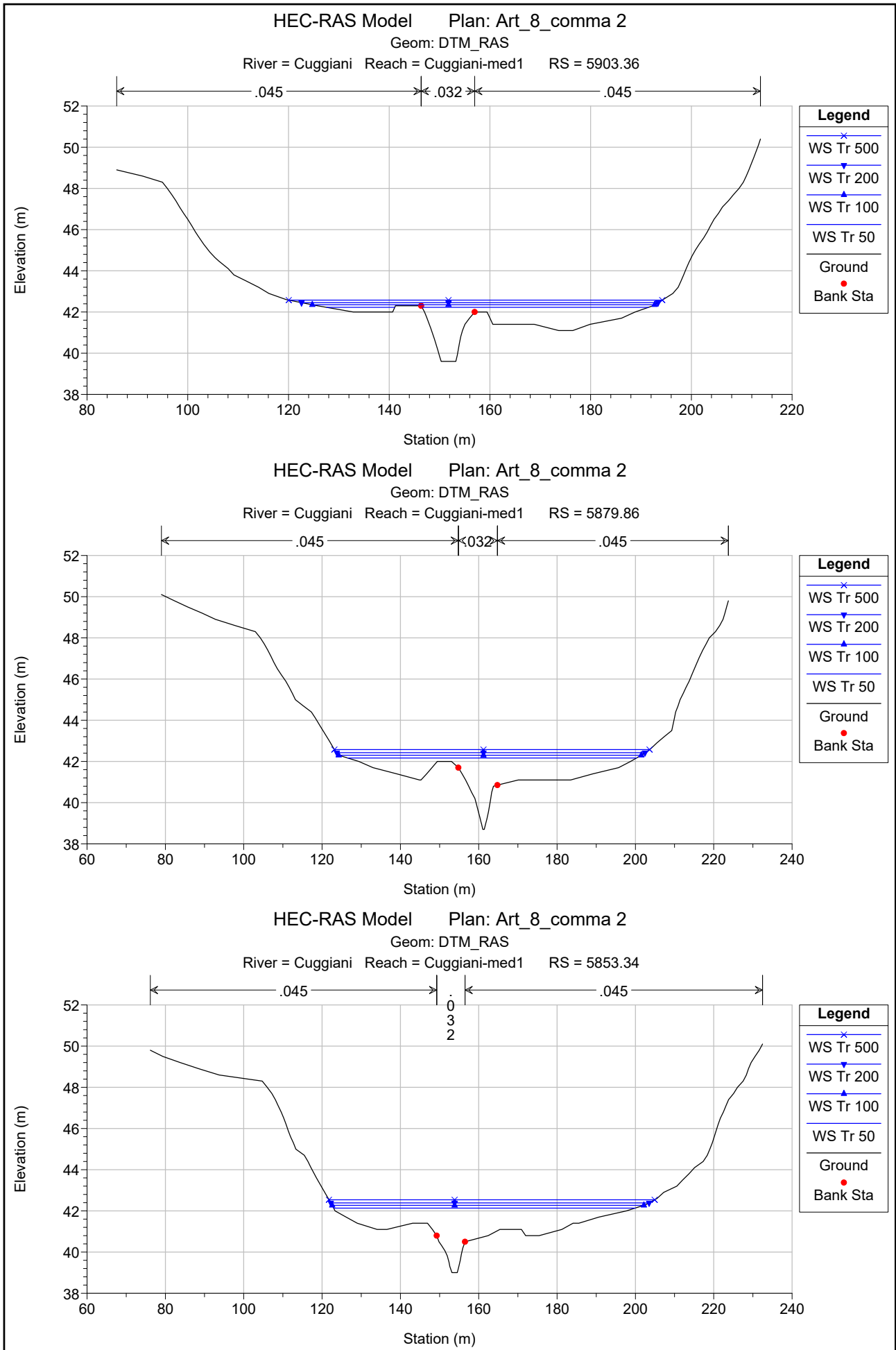


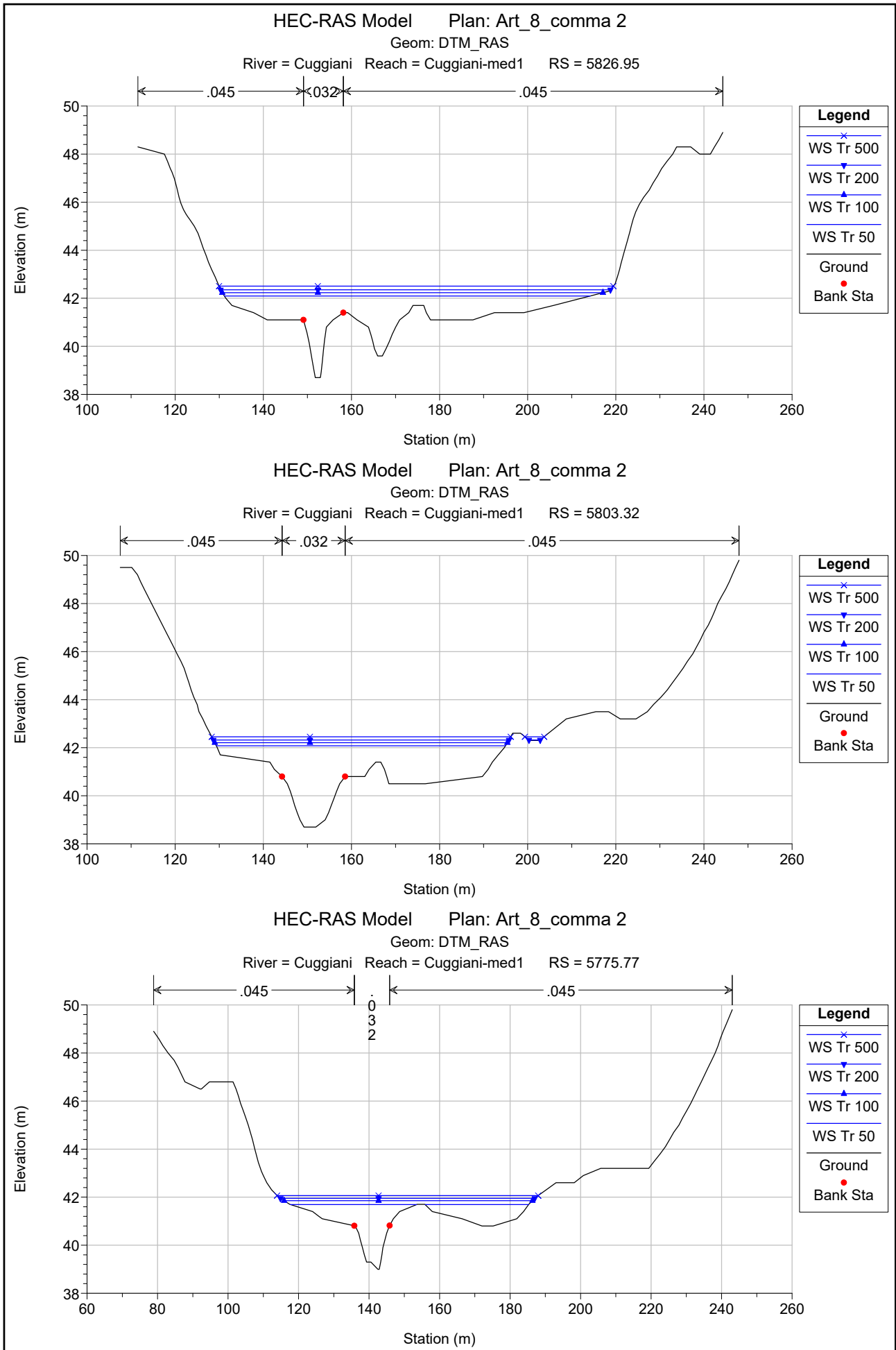


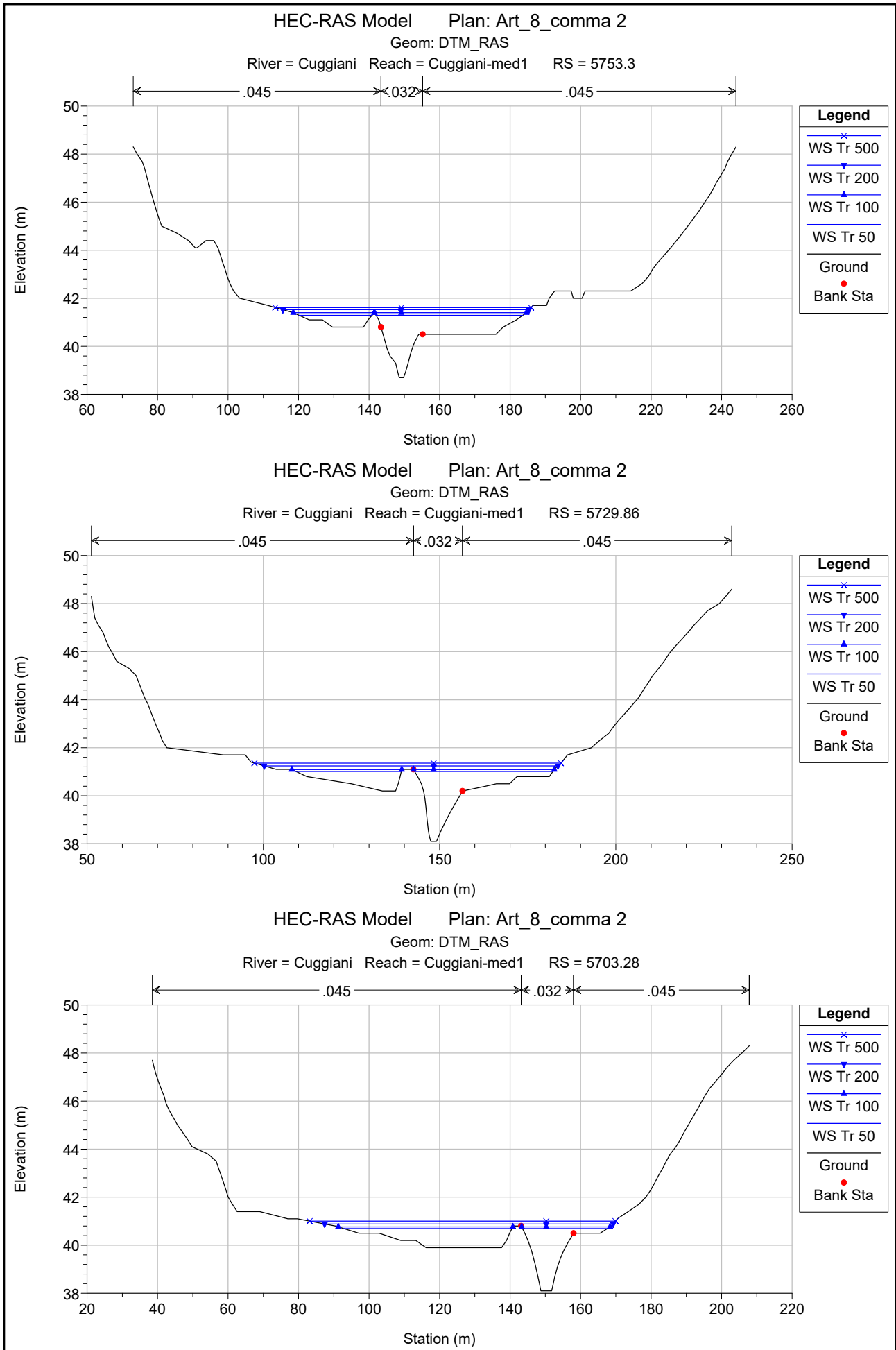








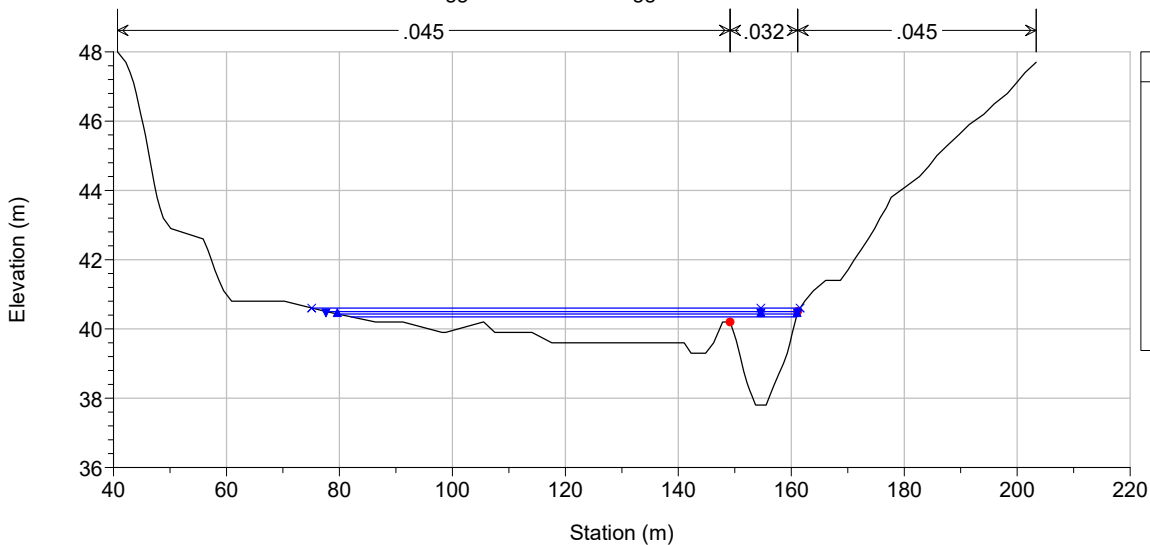




HEC-RAS Model Plan: Art_8_comma 2

Geom: DTM_RAS

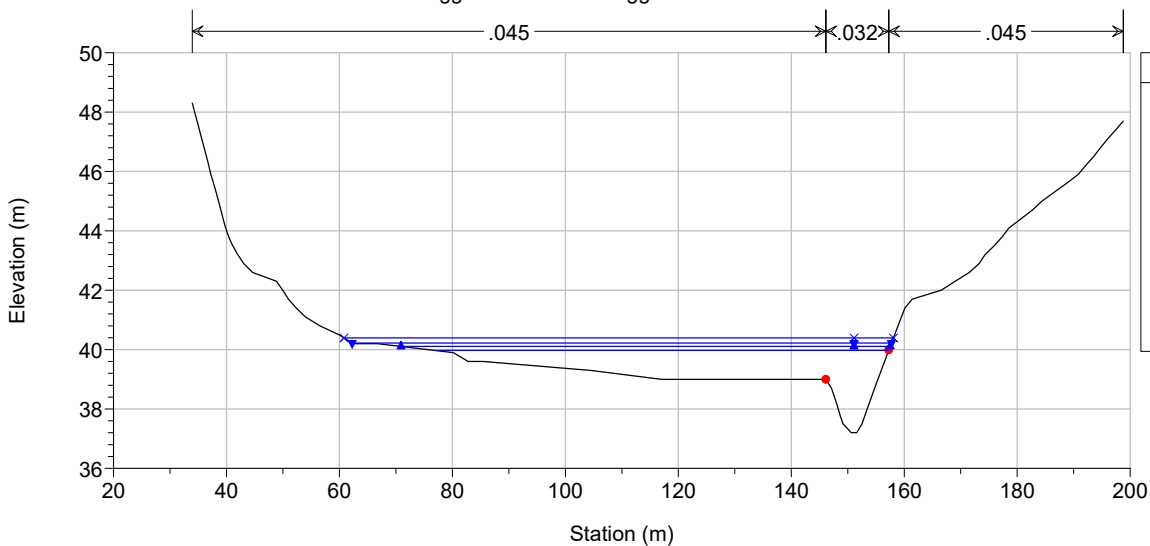
River = Cuggiani Reach = Cuggiani-med1 RS = 5679.7



HEC-RAS Model Plan: Art_8_comma 2

Geom: DTM_RAS

River = Cuggiani Reach = Cuggiani-med1 RS = 5653.26



HEC-RAS Model Plan: Art_8_comma 2

Geom: DTM_RAS

River = Cuggiani Reach = Cuggiani-med1 RS = 5630.84

