



# Comune di Fucecchio

(Provincia di Firenze)

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Approfondimenti idrogeologico-idraulici  
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## Verifiche idrauliche

Regolamento Urbanistico  
PROGETTO

C.6



# **VERIFICHE IDRAULICHE**

## **STATO ATTUALE**

### **Comune di Fucecchio**

- **Scenario A1:** Tempo di pioggia critico Rio Fucecchio e Canale Maestro
- **Scenario A2:** Tempo di pioggia critico Rio Vallebuia
- **Scenario A3:** Tempo di pioggia critico Rio Macone
- **Scenario B:** Tempo di pioggia critico torrente Vincio
- **Scenario C:** Tempo di pioggia 24 h
- **Scenario D:** Tempo di pioggia 36 h

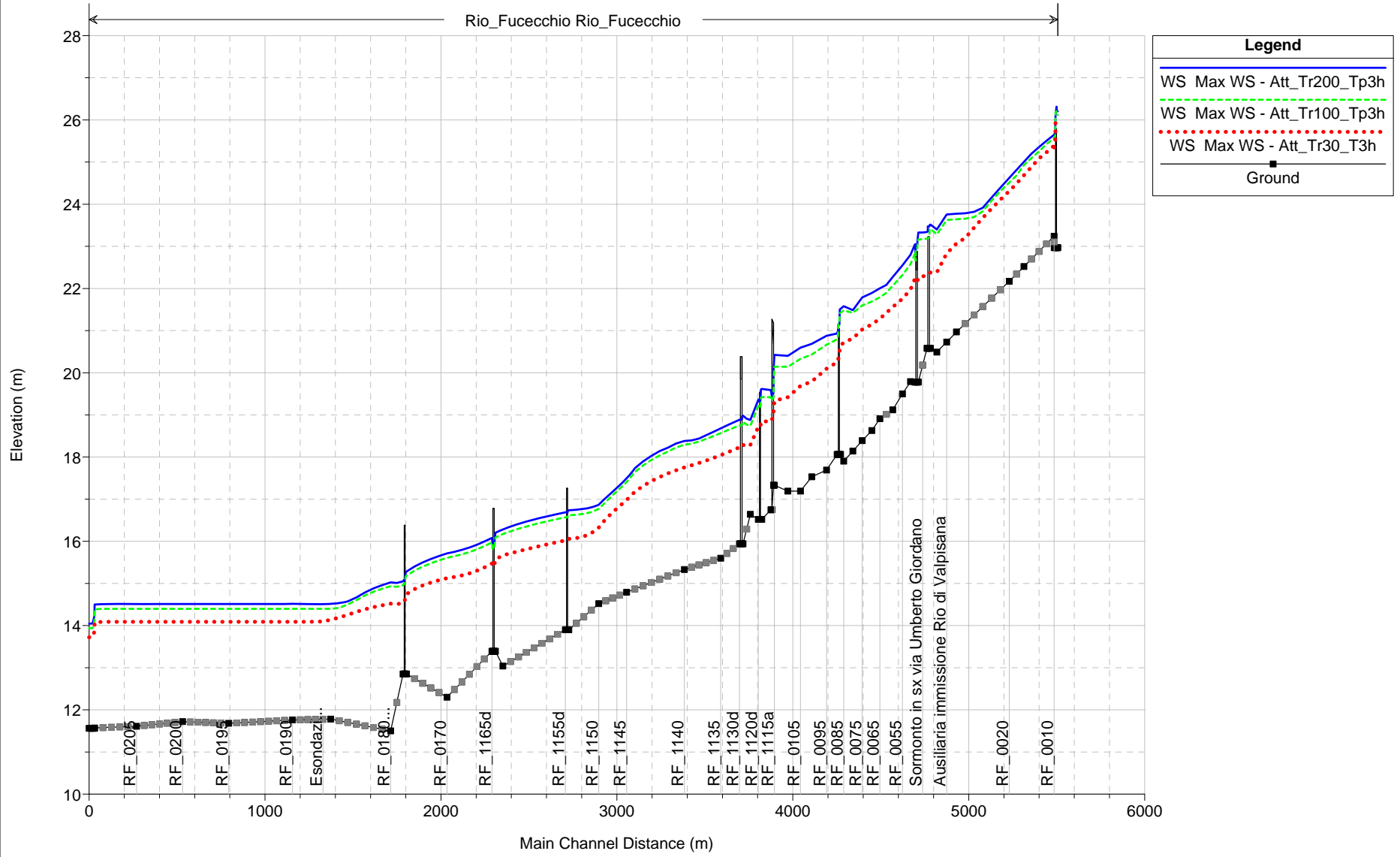
# **Scenario A1**

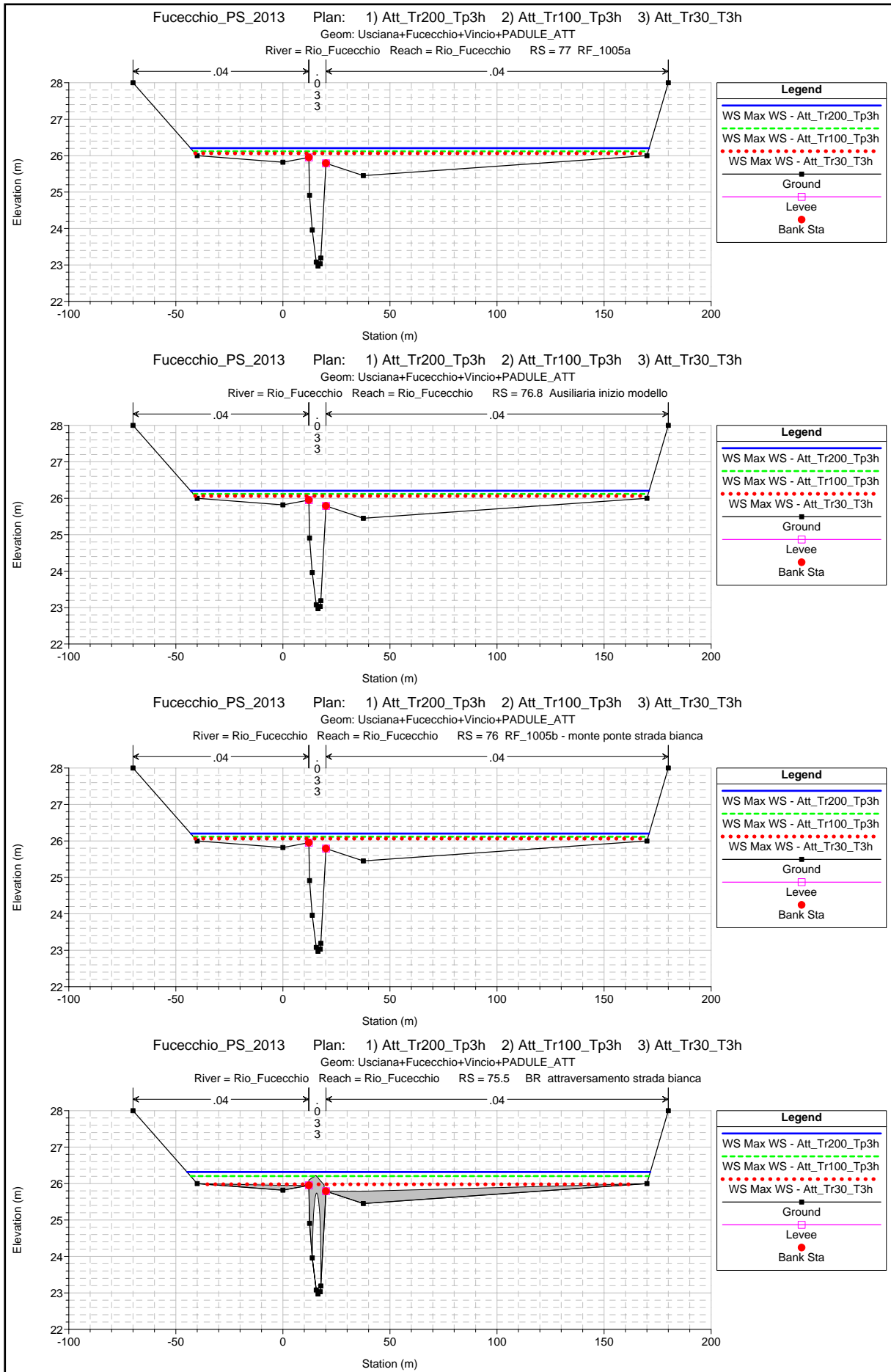
**Tr 200, 100 e 30 anni**

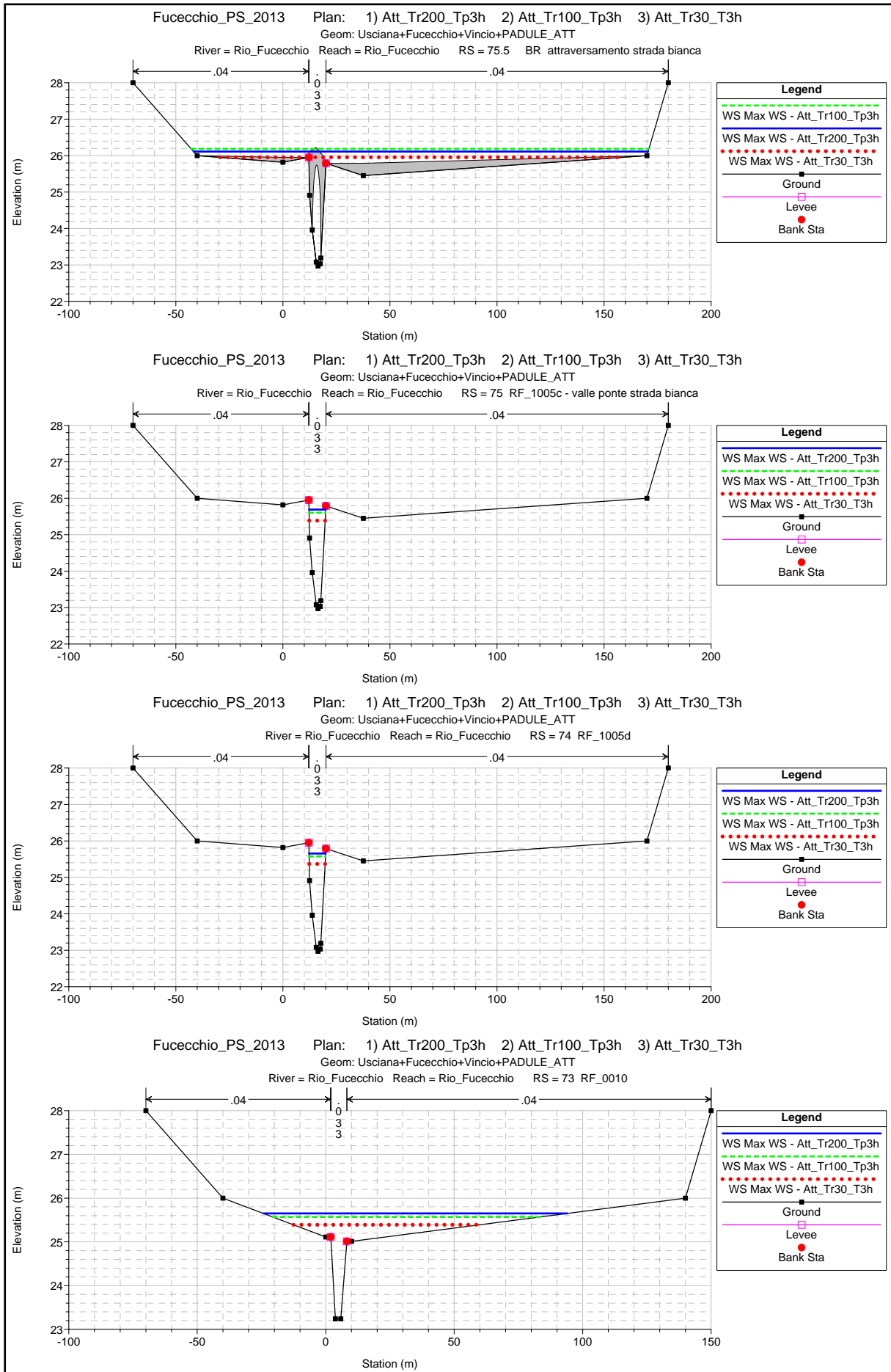
## **RIO DI FUCECCHIO**

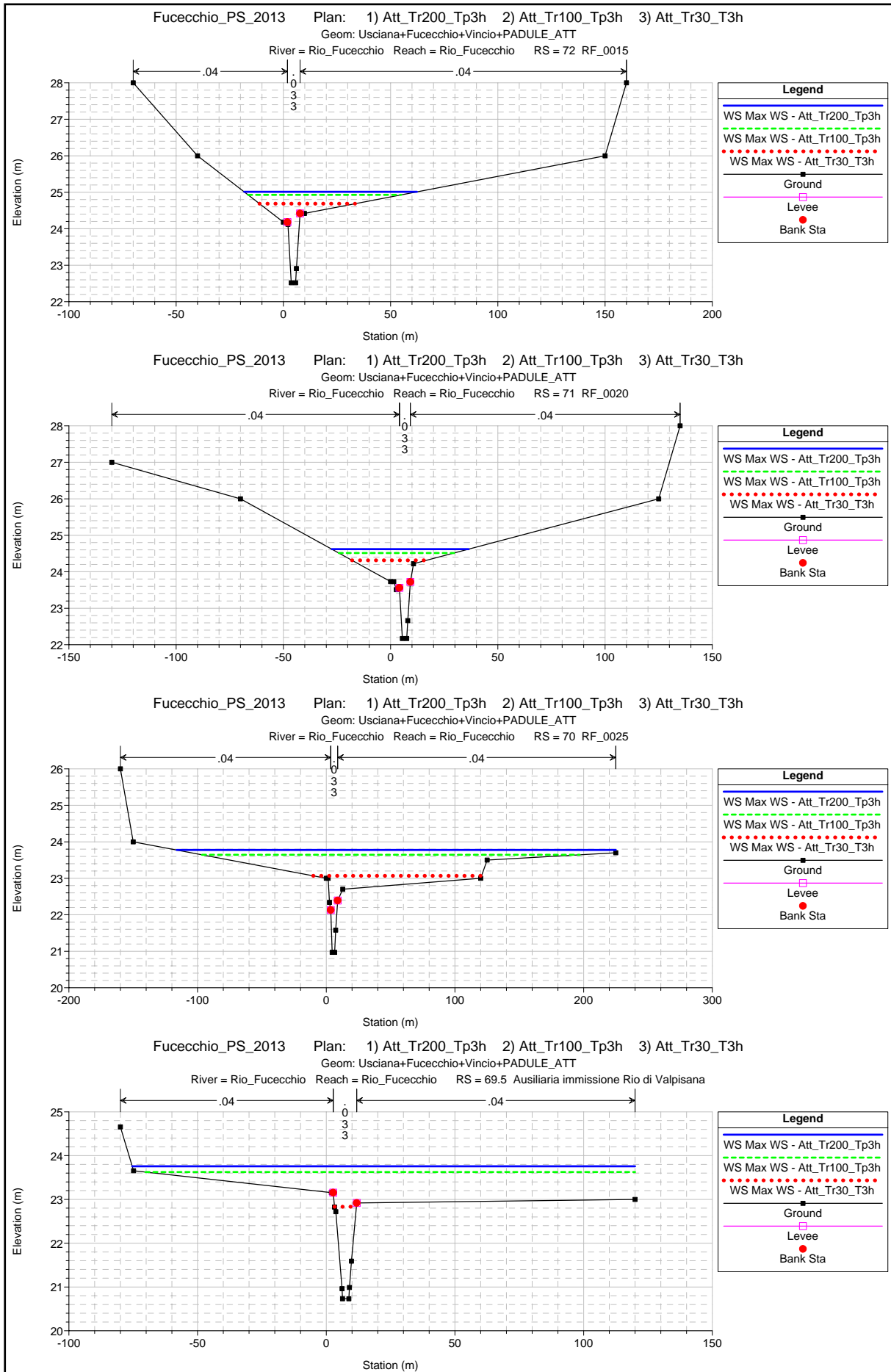
- **Profili**
- **Sezioni**
- **Tabelle di Output**

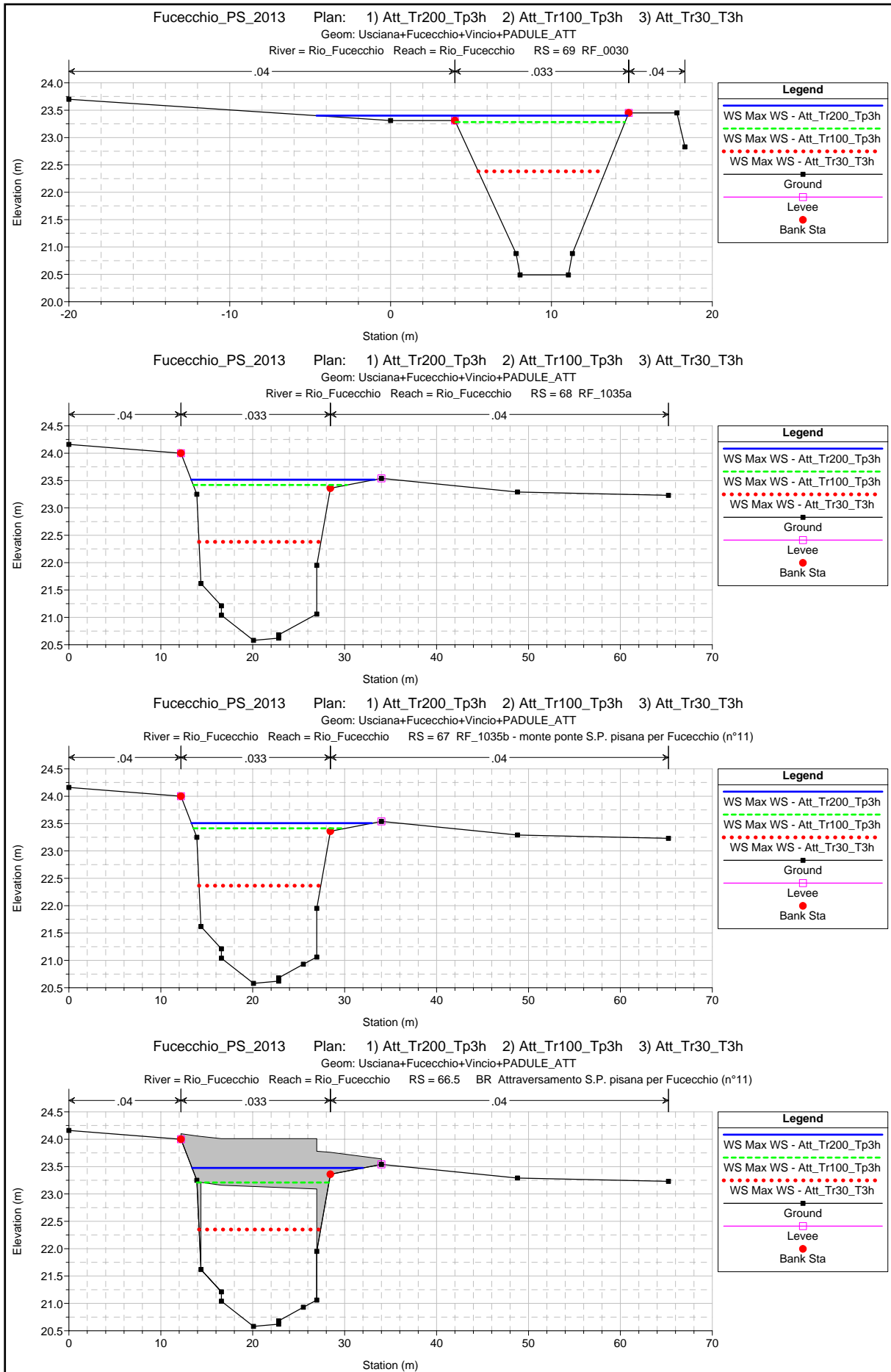
Fucecchio\_PS\_2013 Plan: 1) Att\_Tr200\_Tp3h 2) Att\_Tr100\_Tp3h 3) Att\_Tr30\_T3h  
 Geom: Usciana+Fucecchio+Vincio+PADULE\_ATT



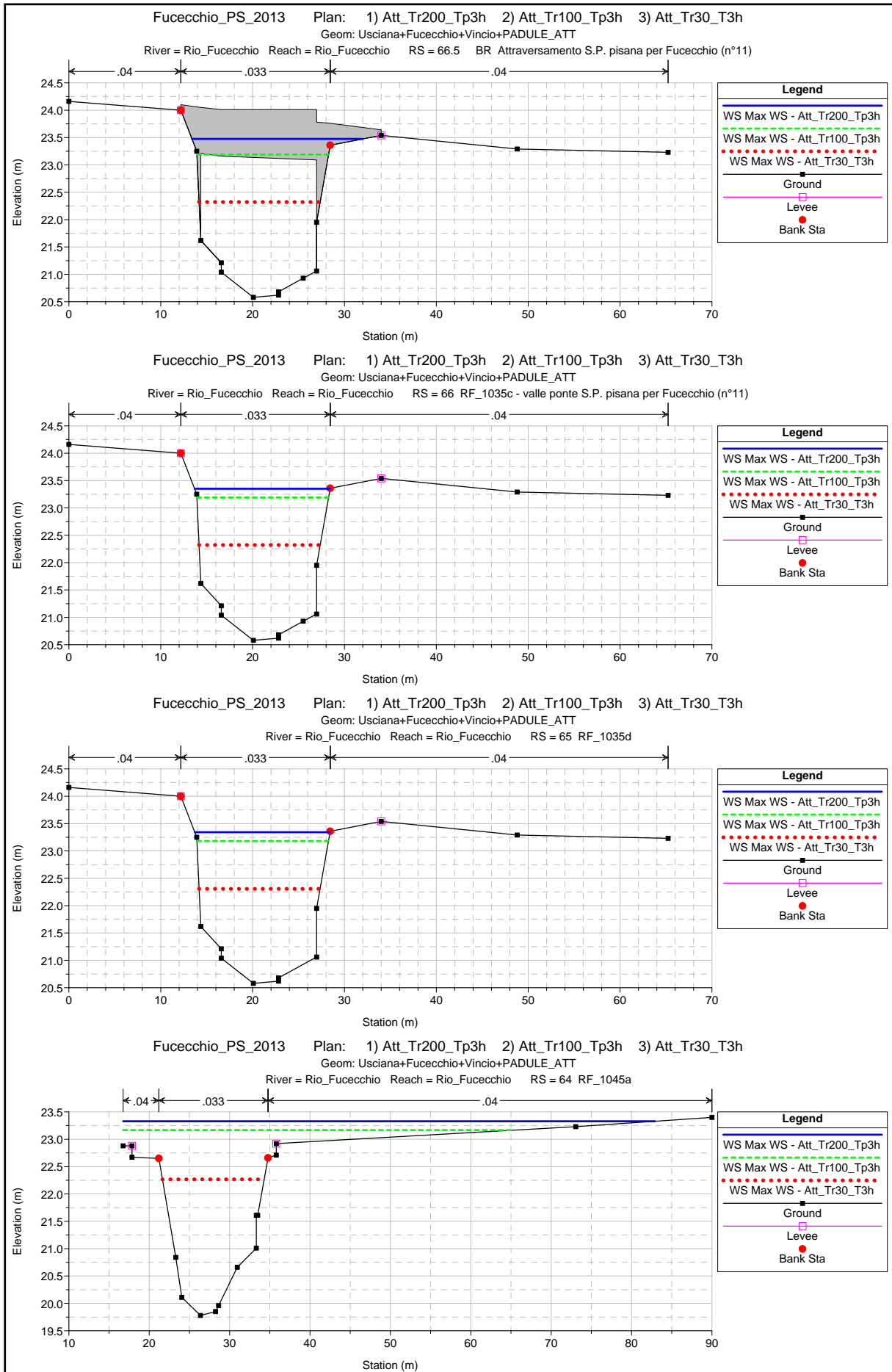


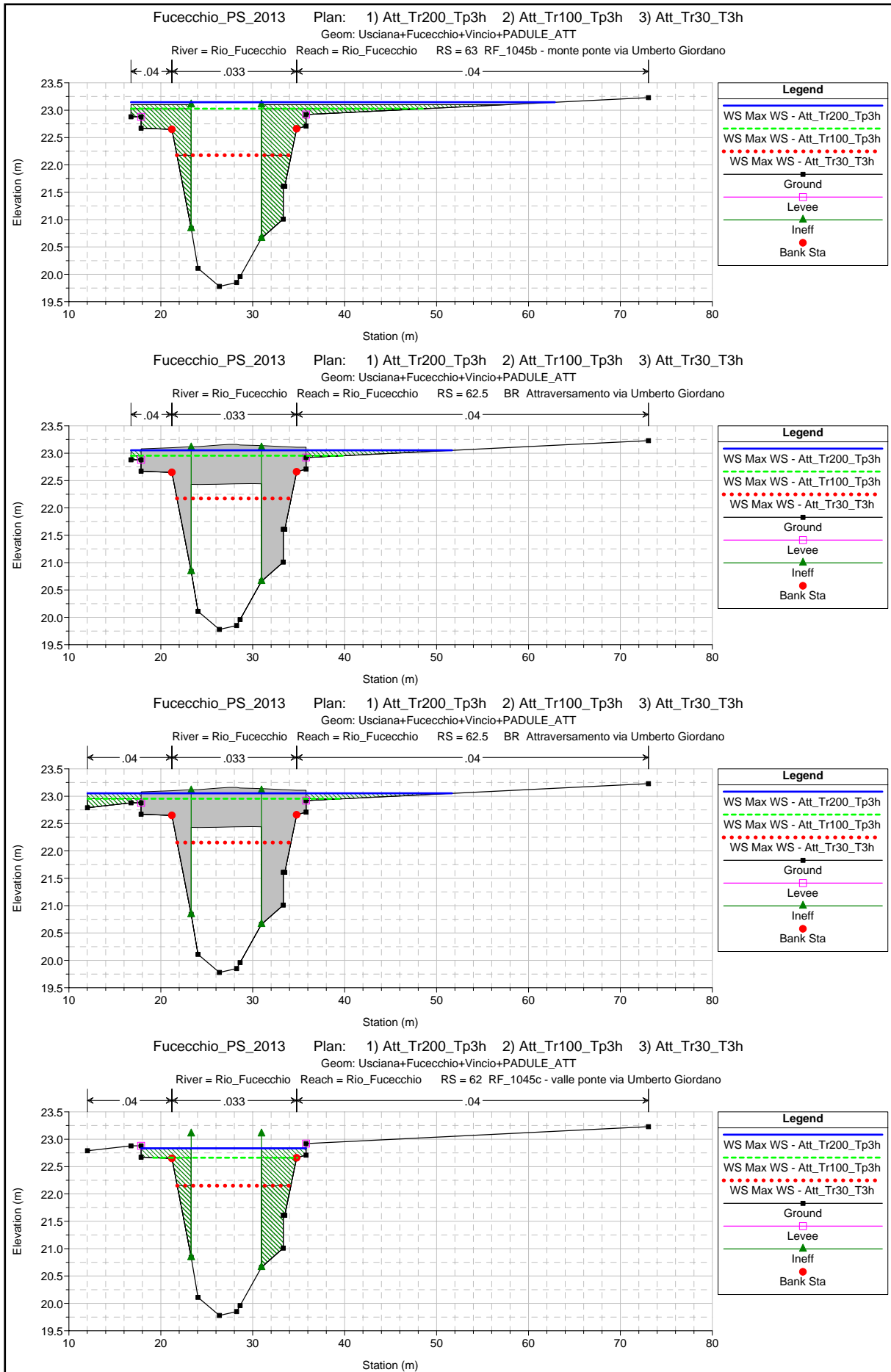


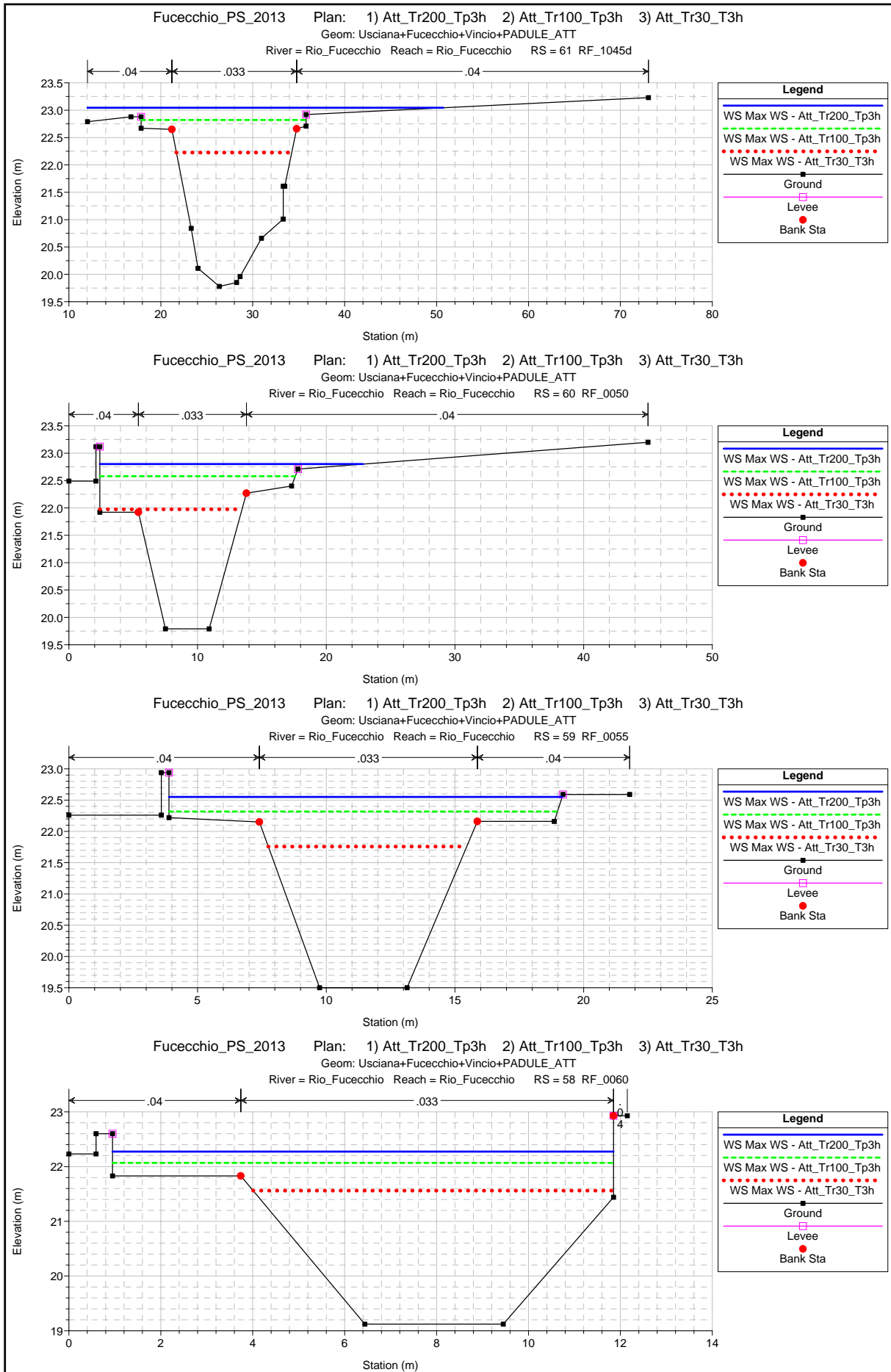


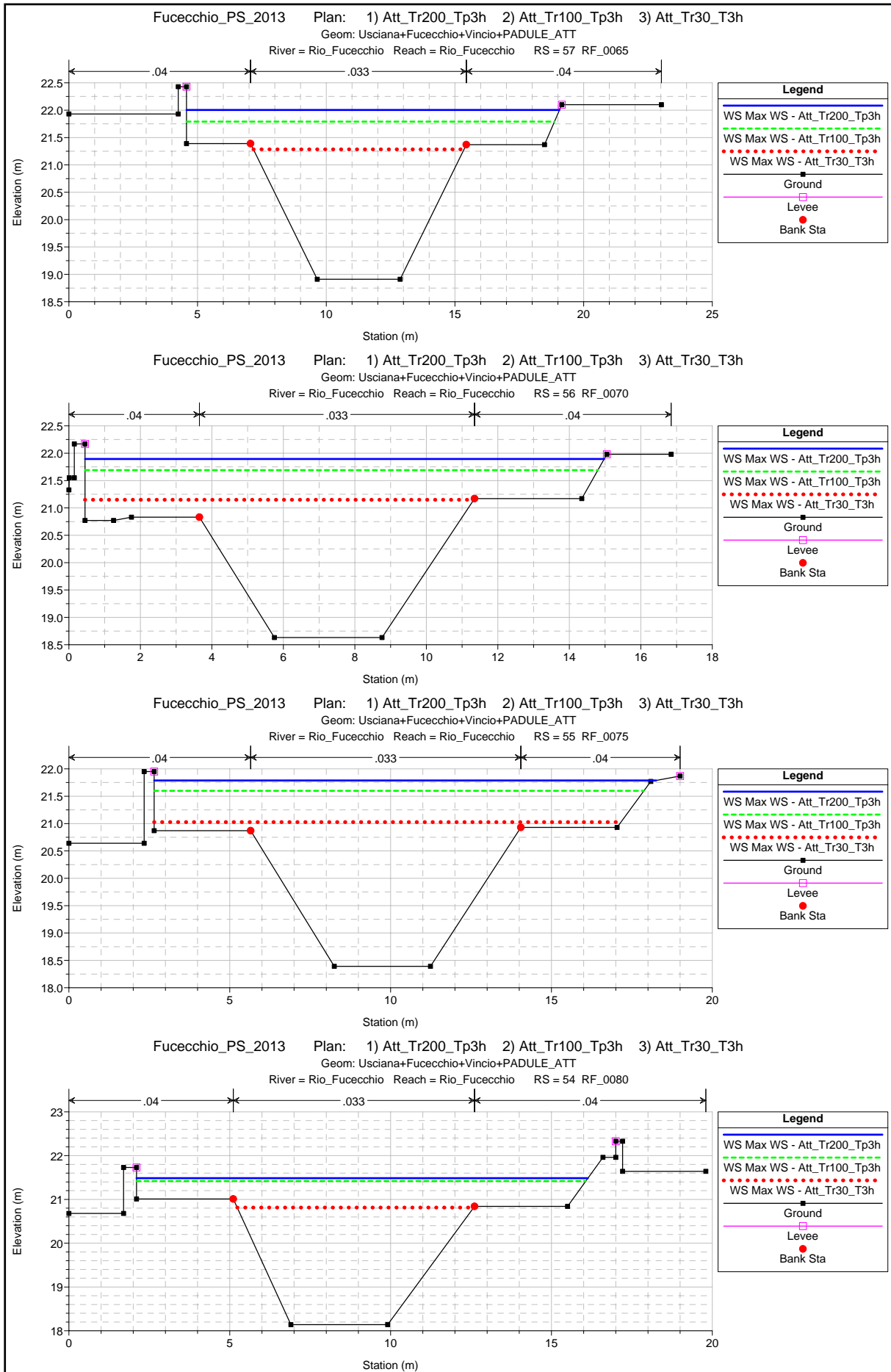


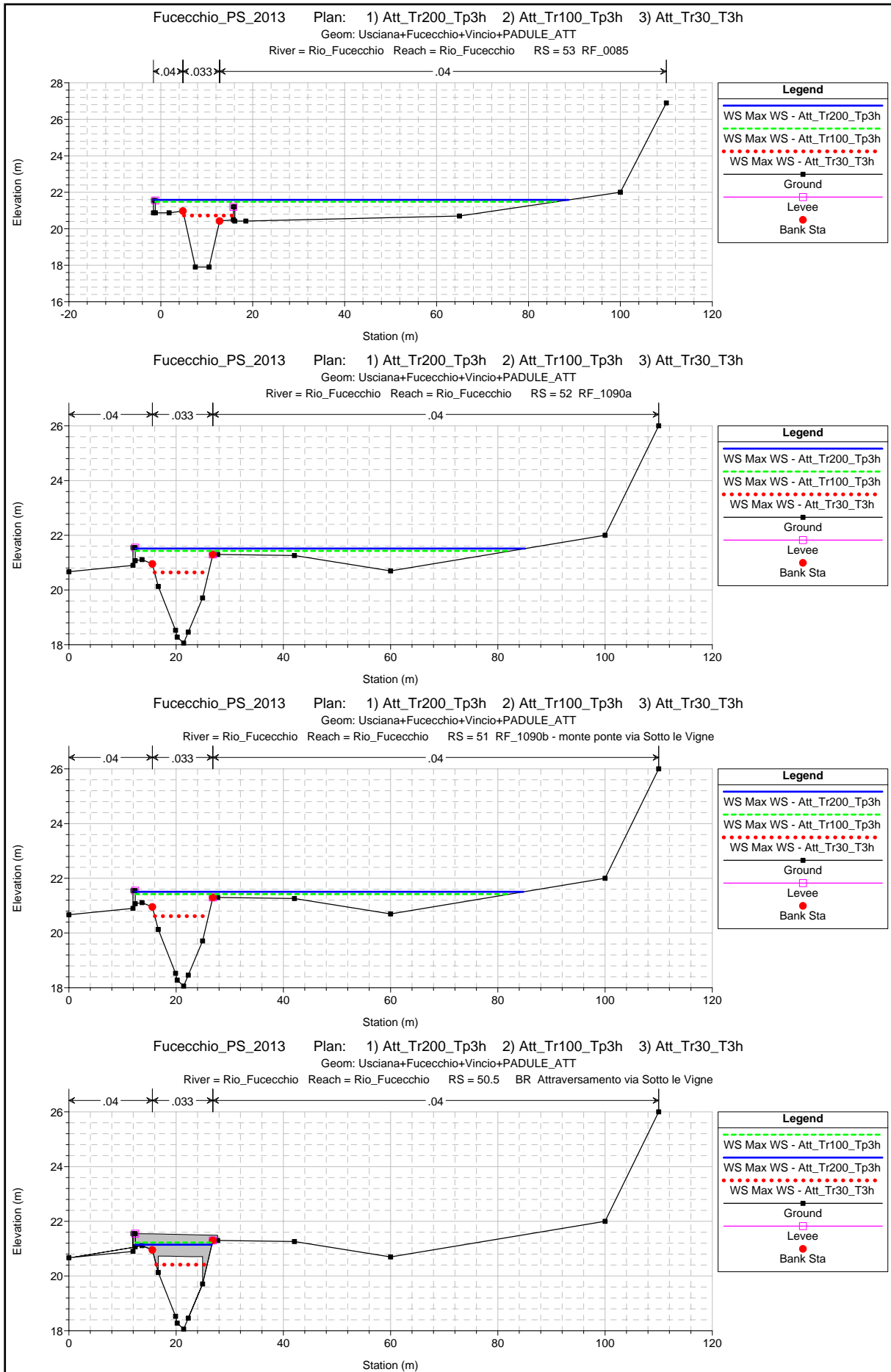


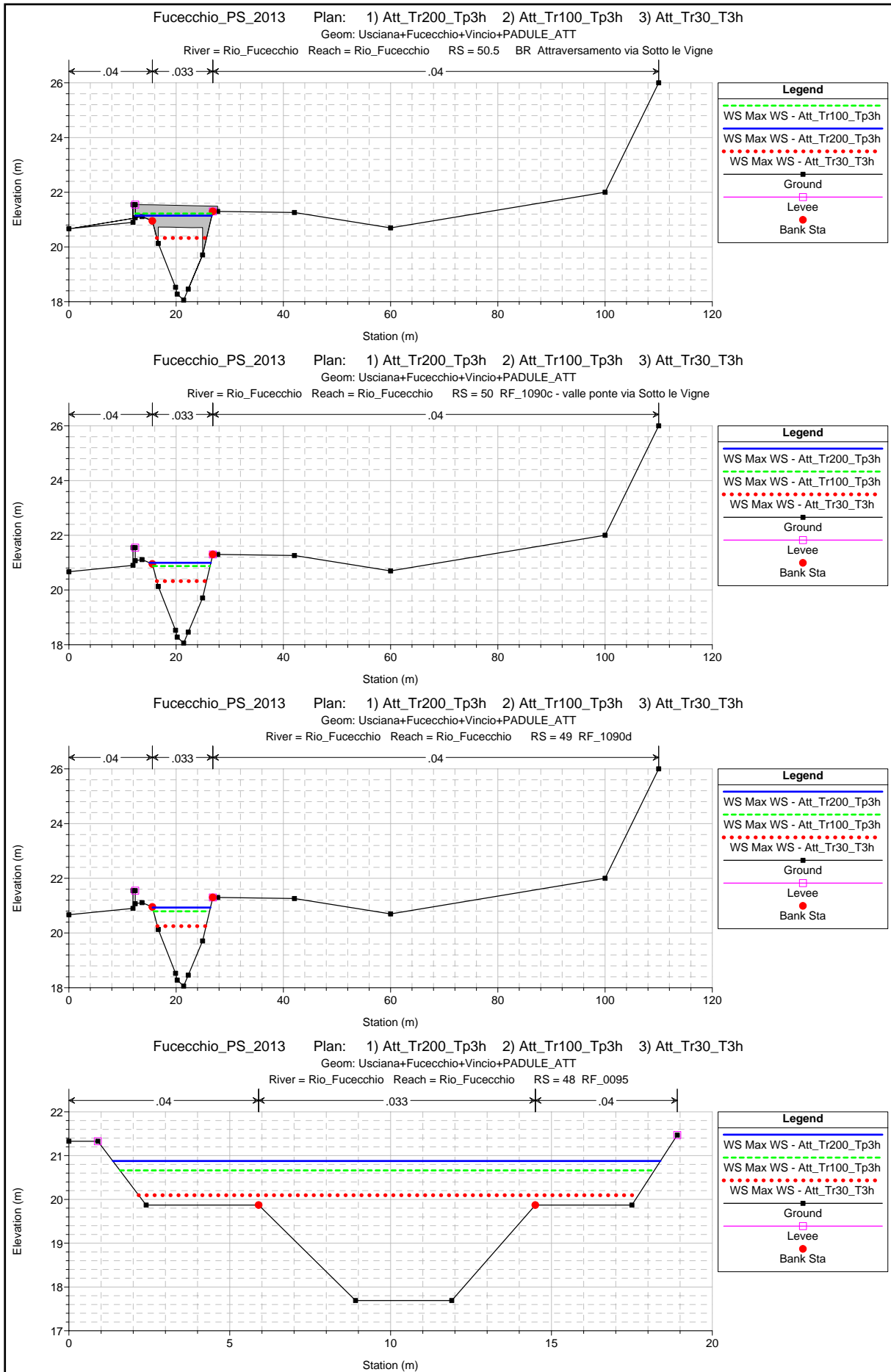


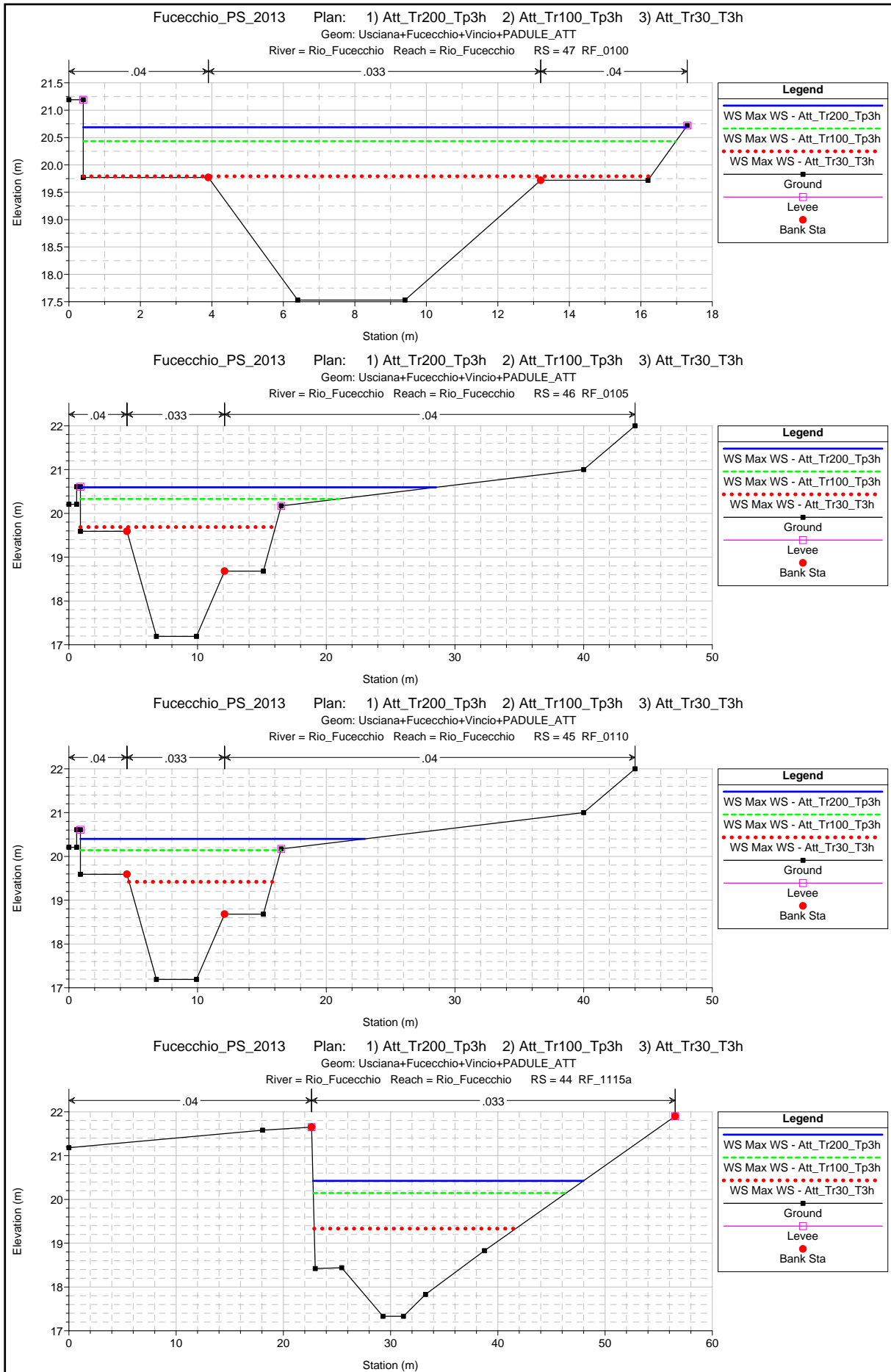


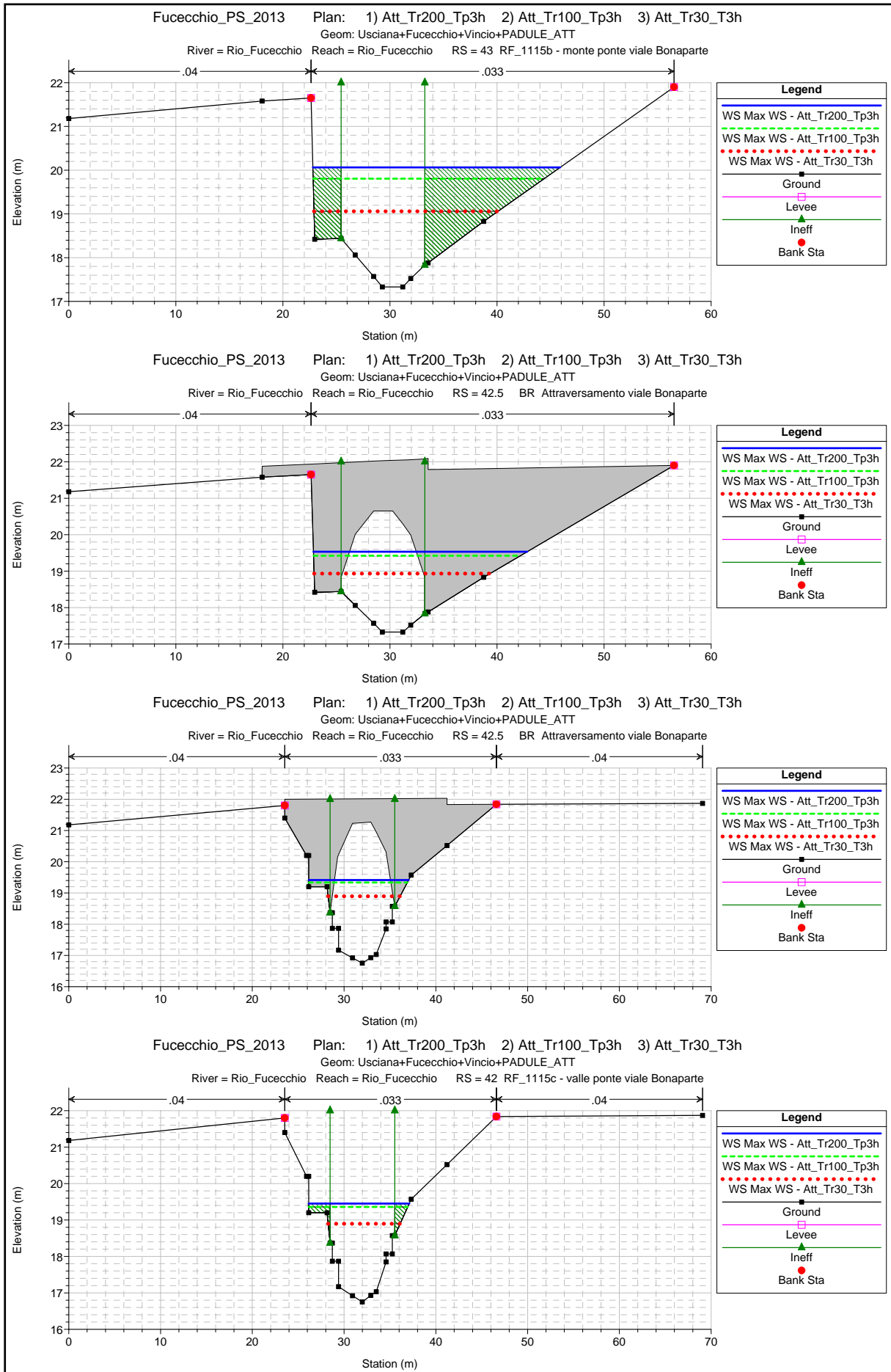




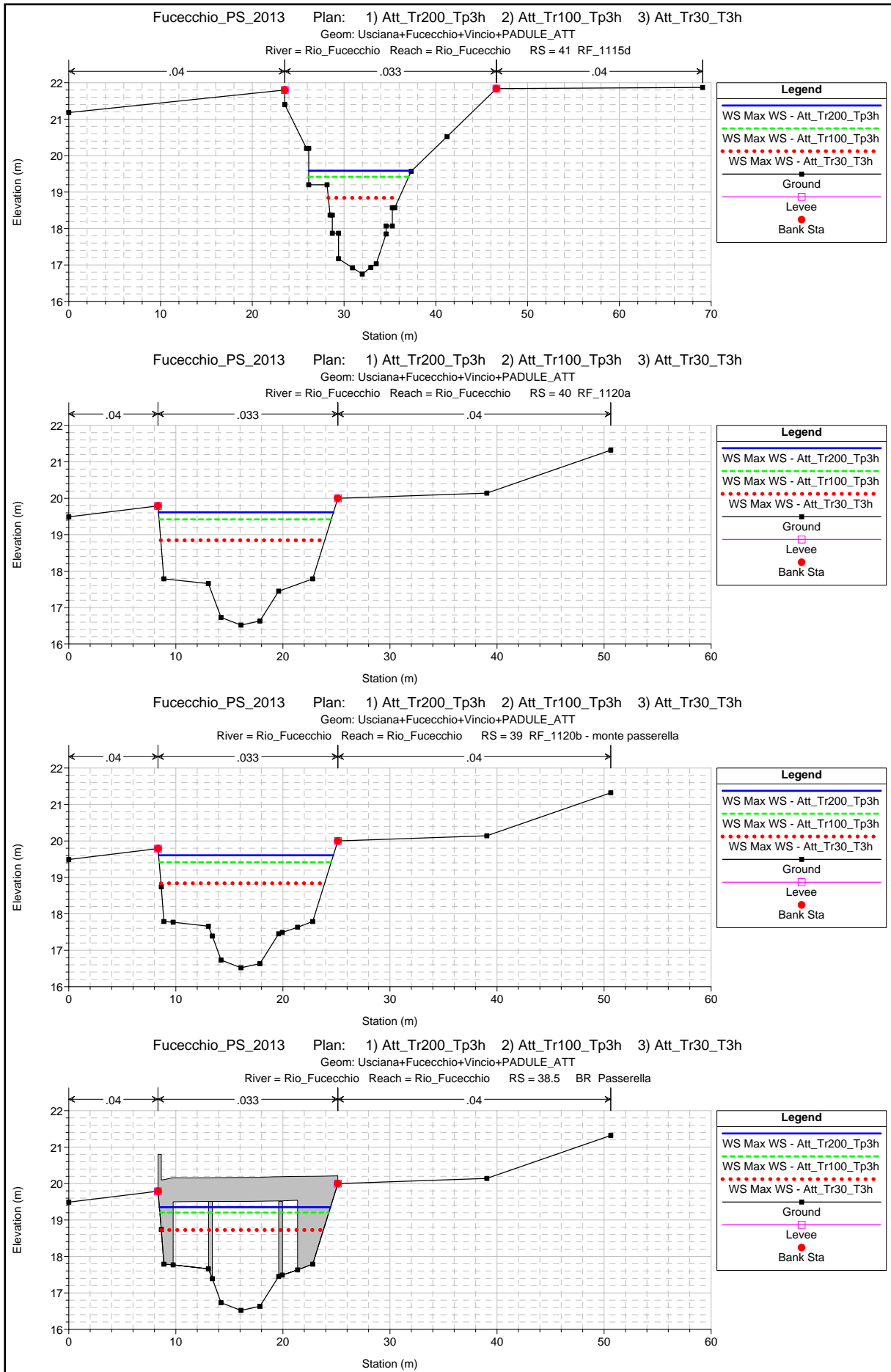


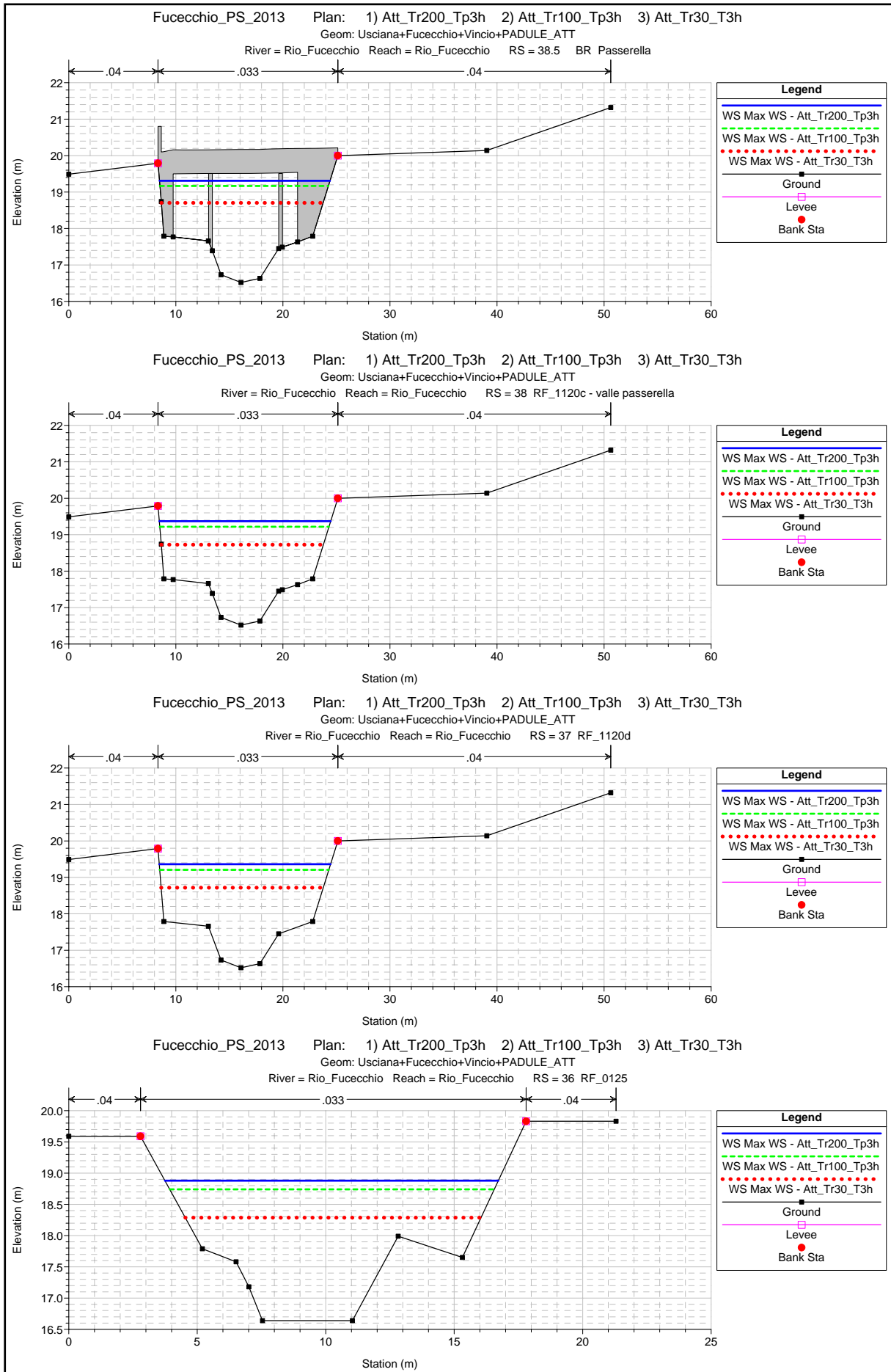


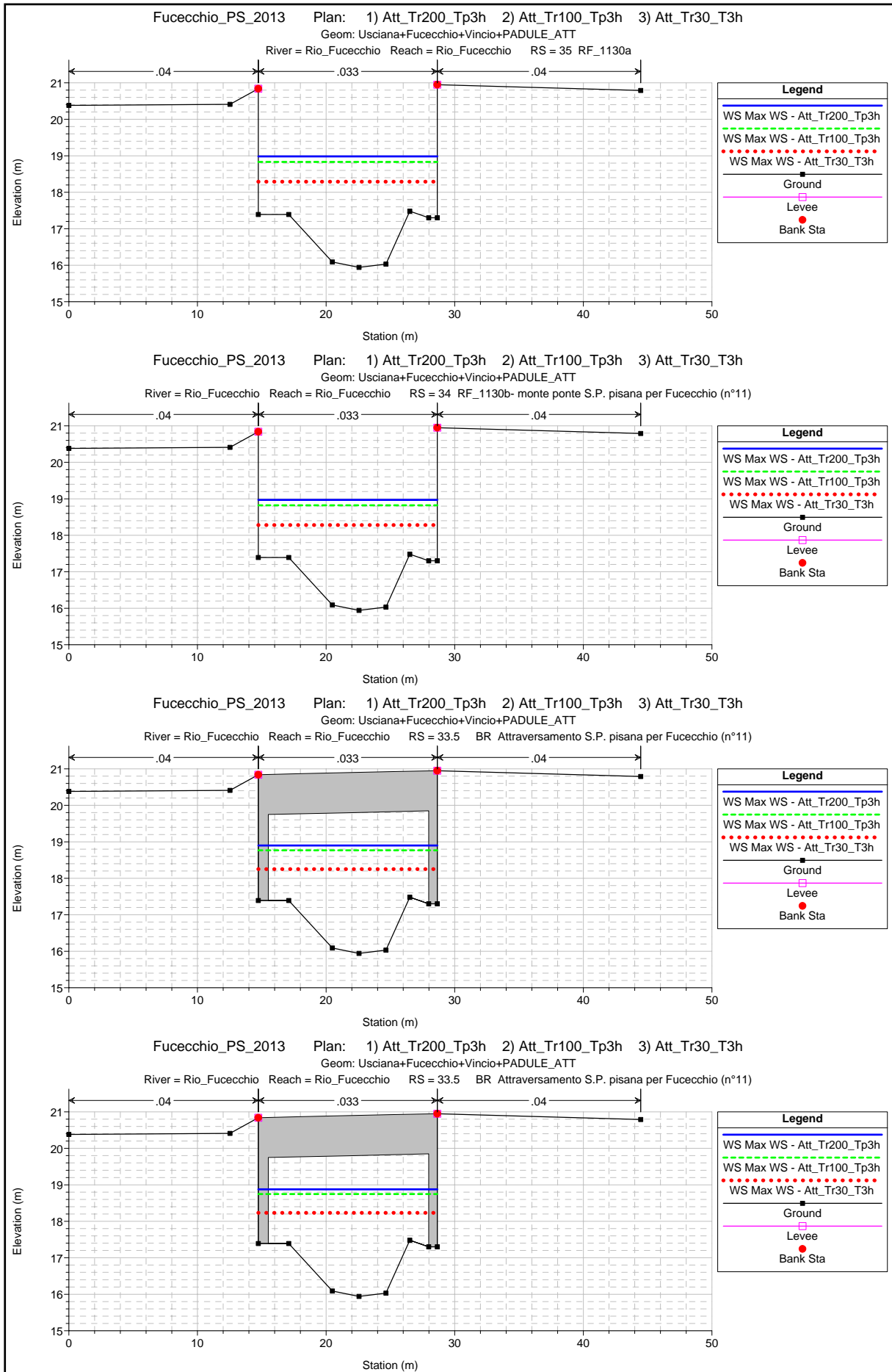


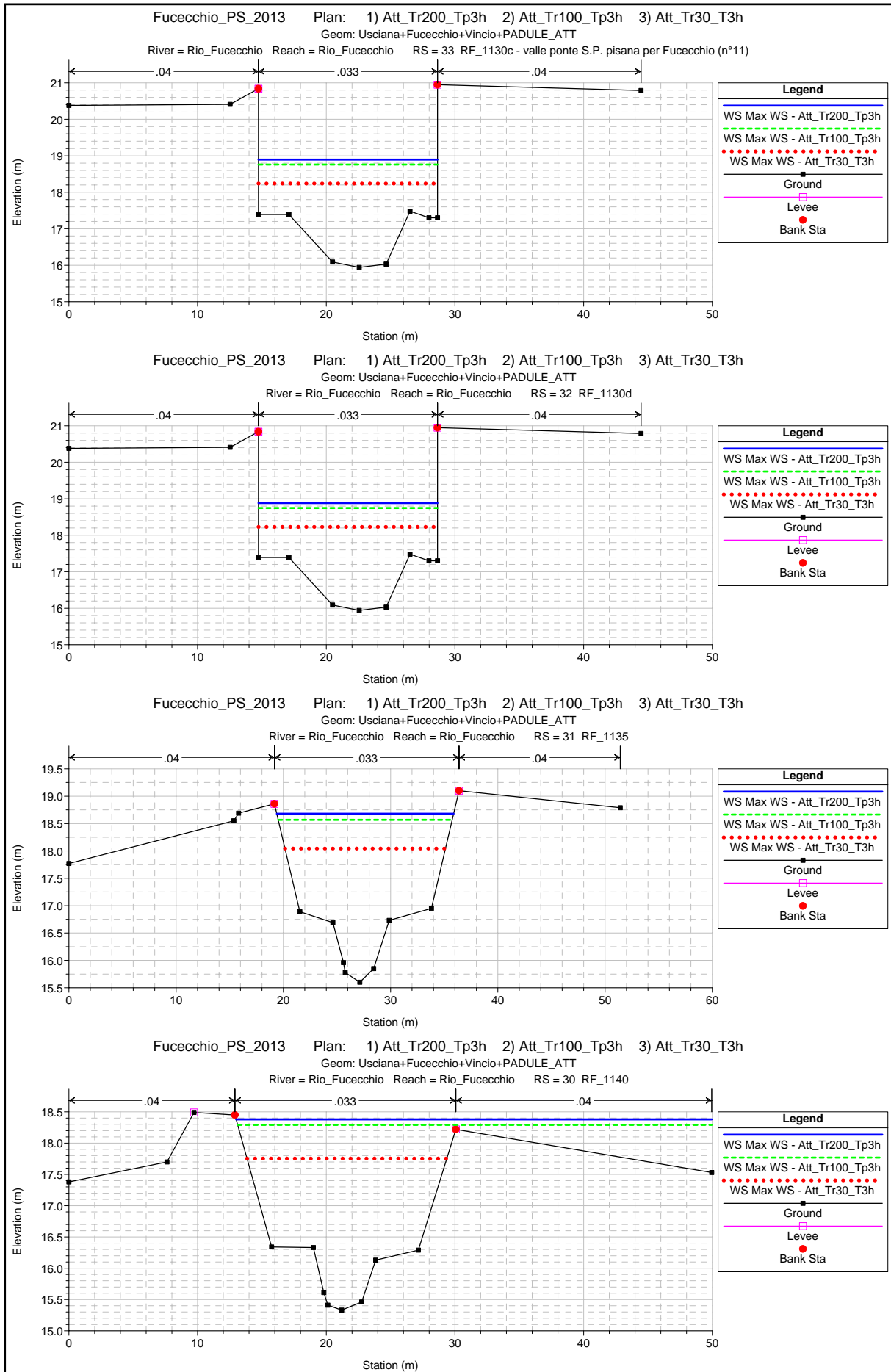


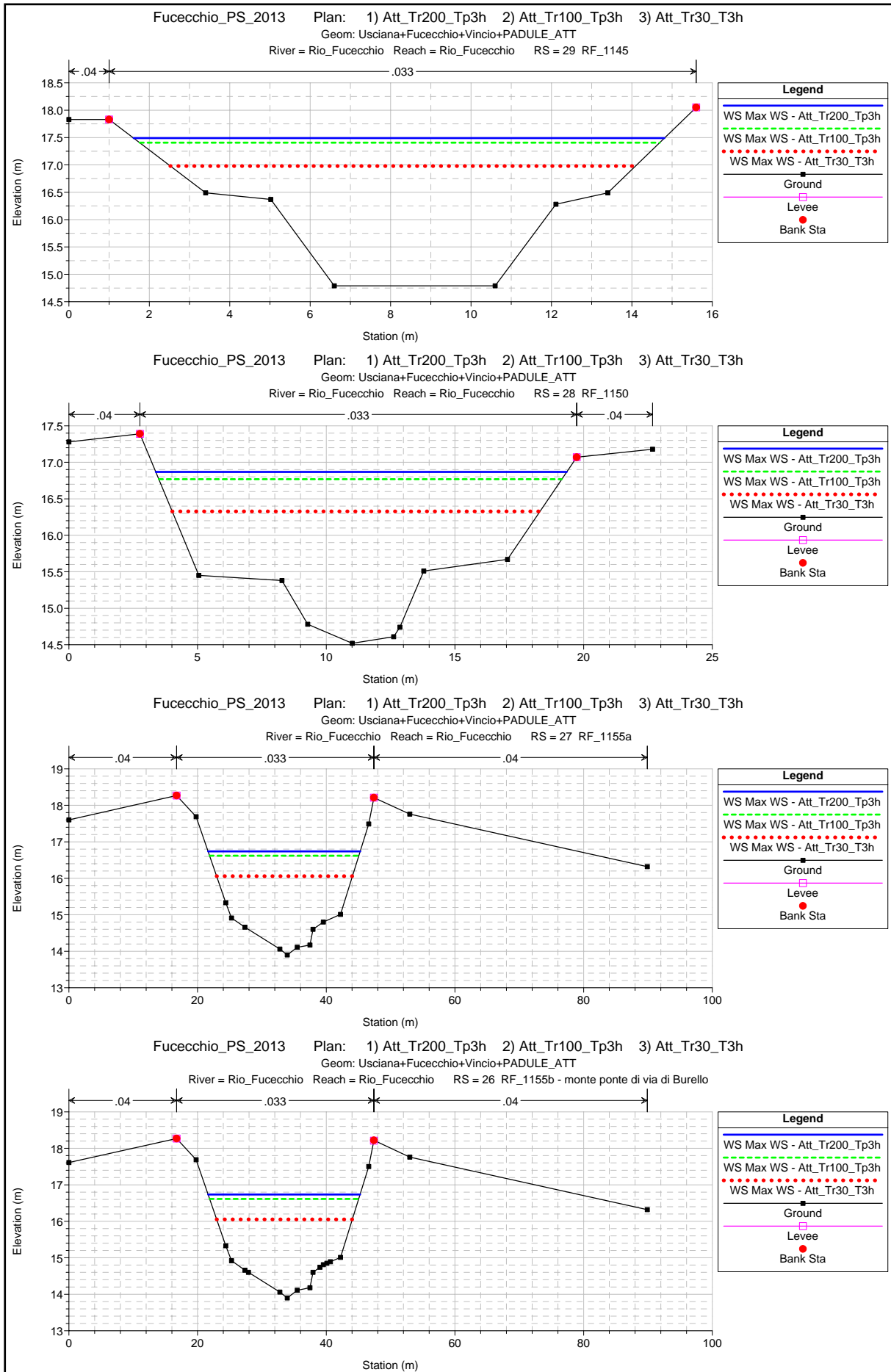


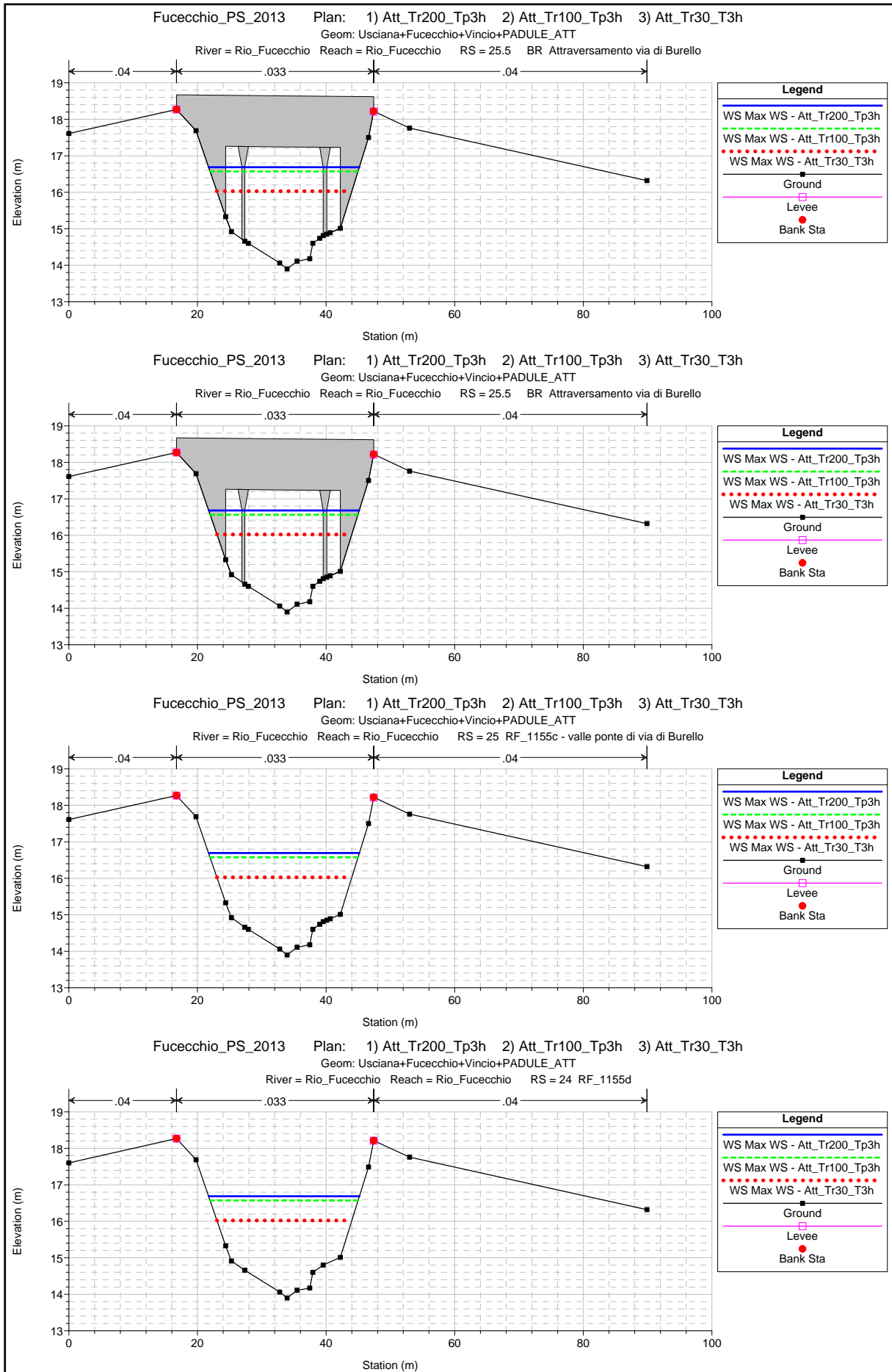


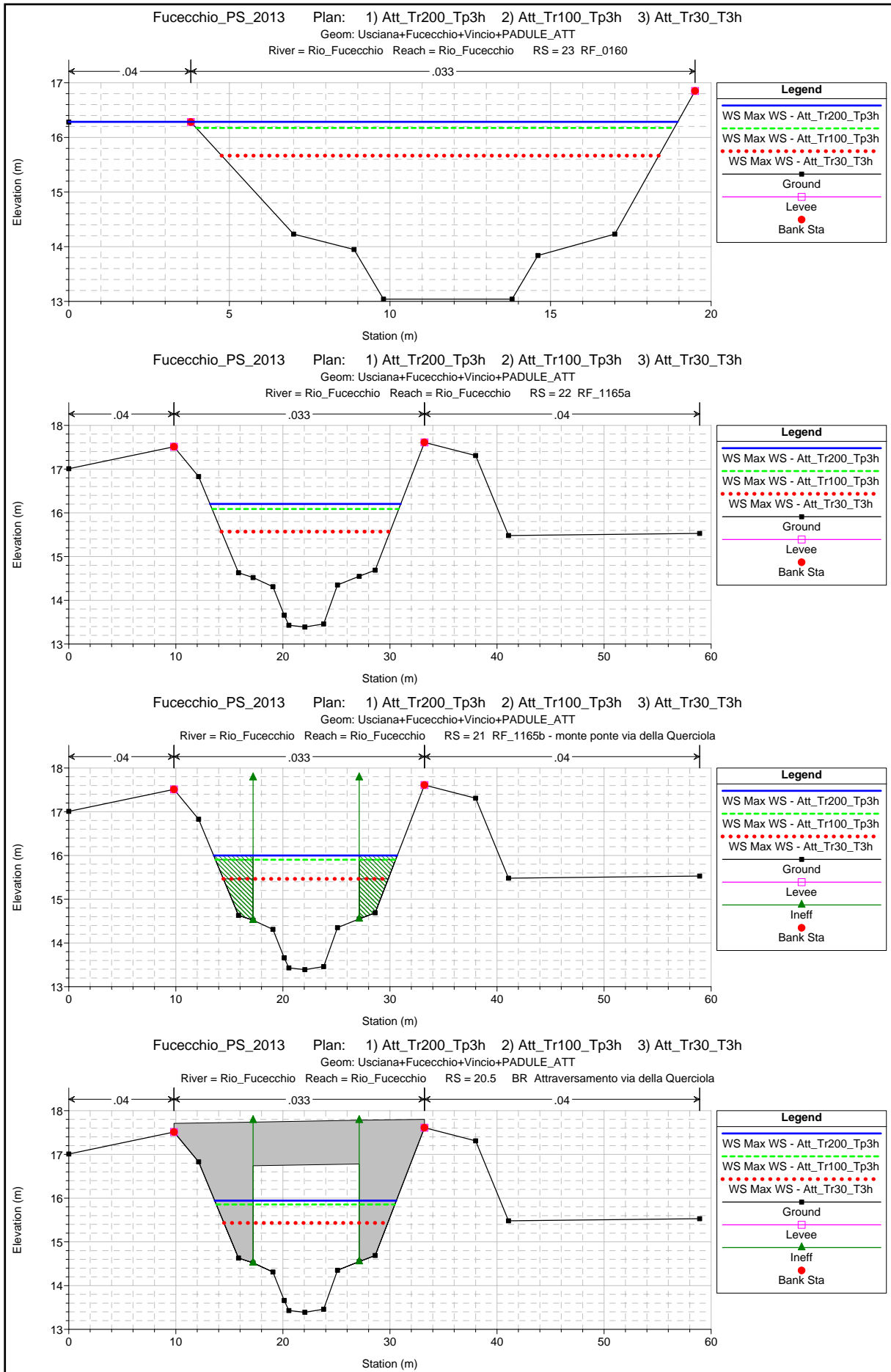


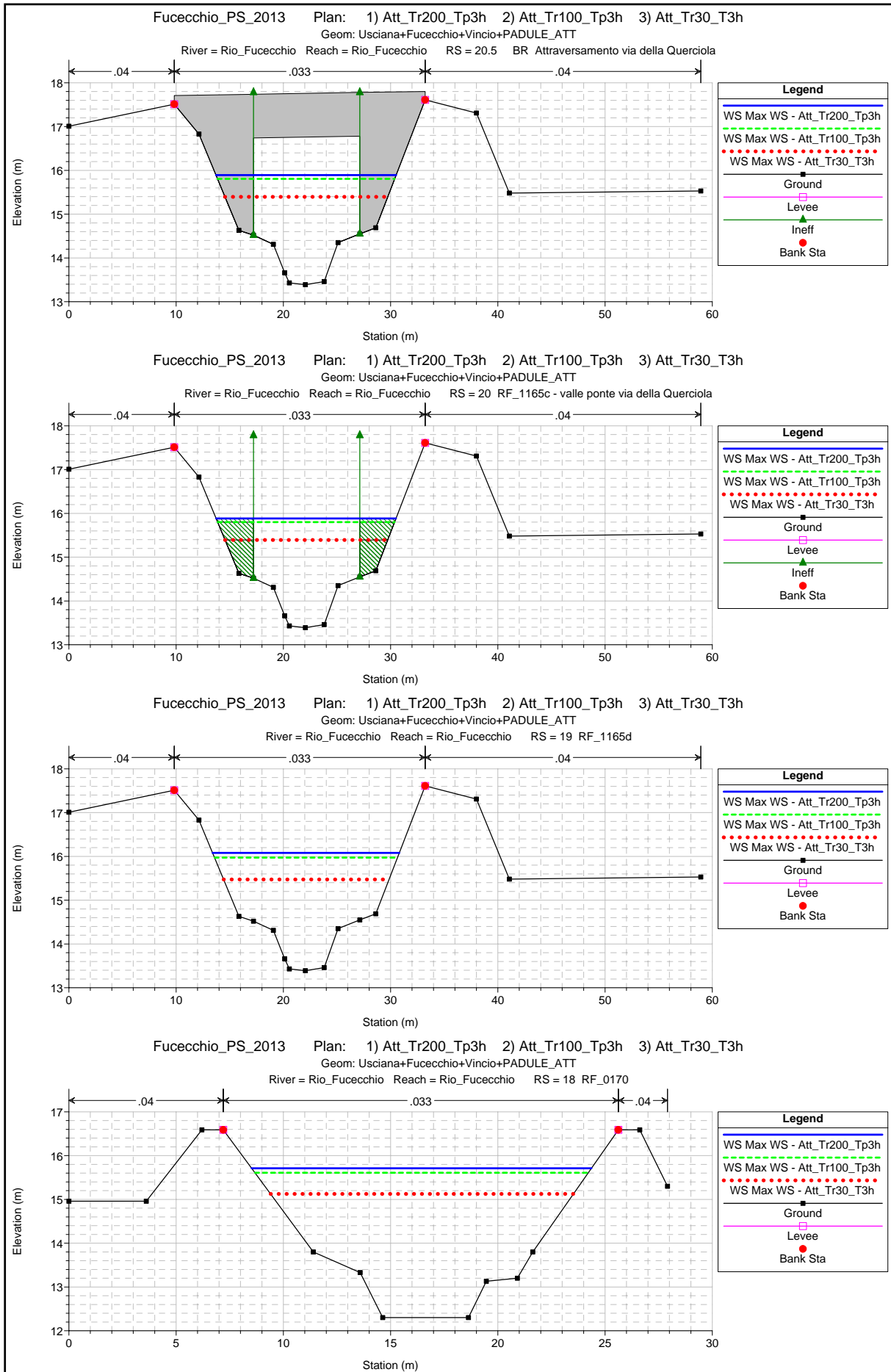




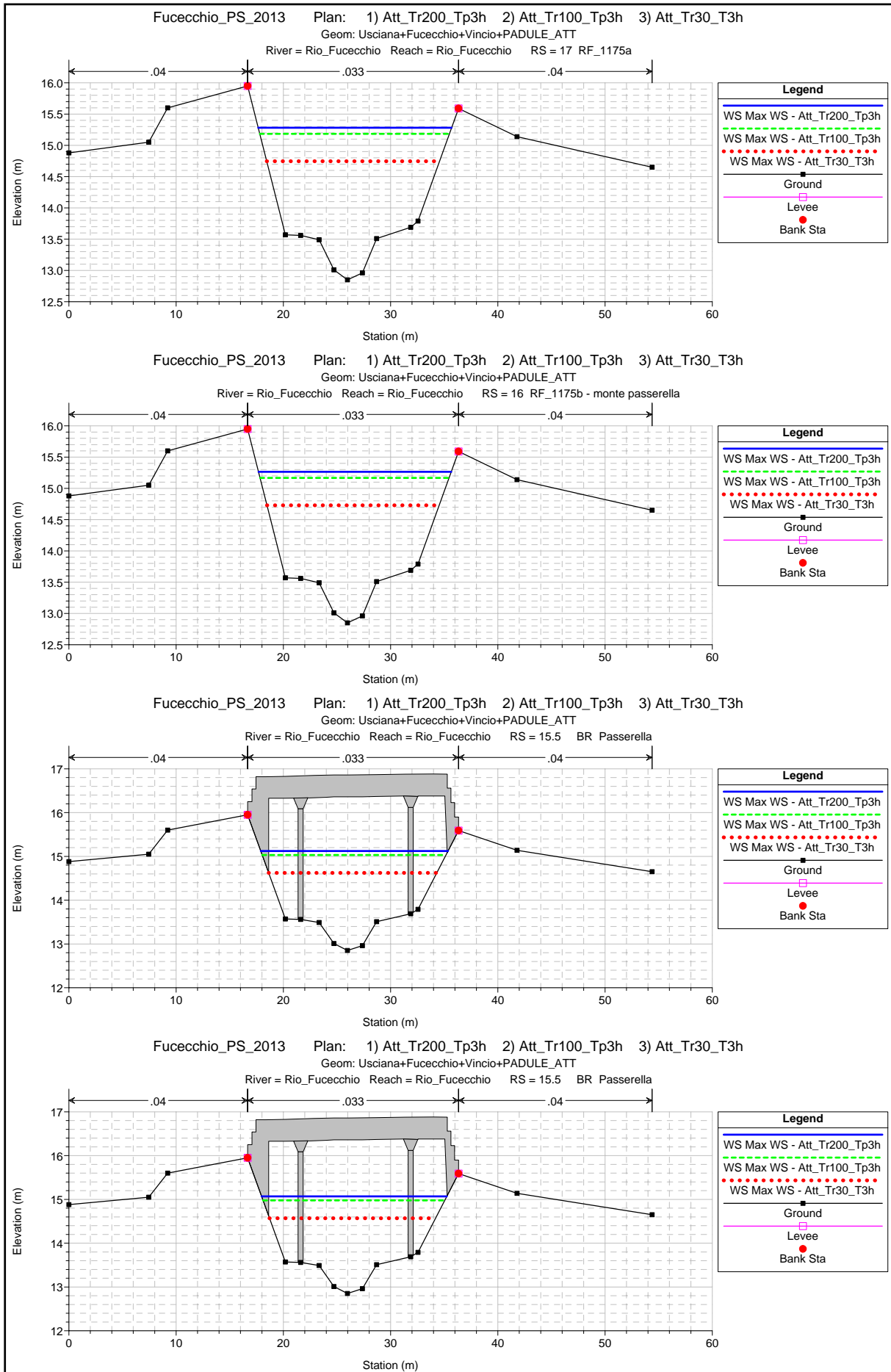


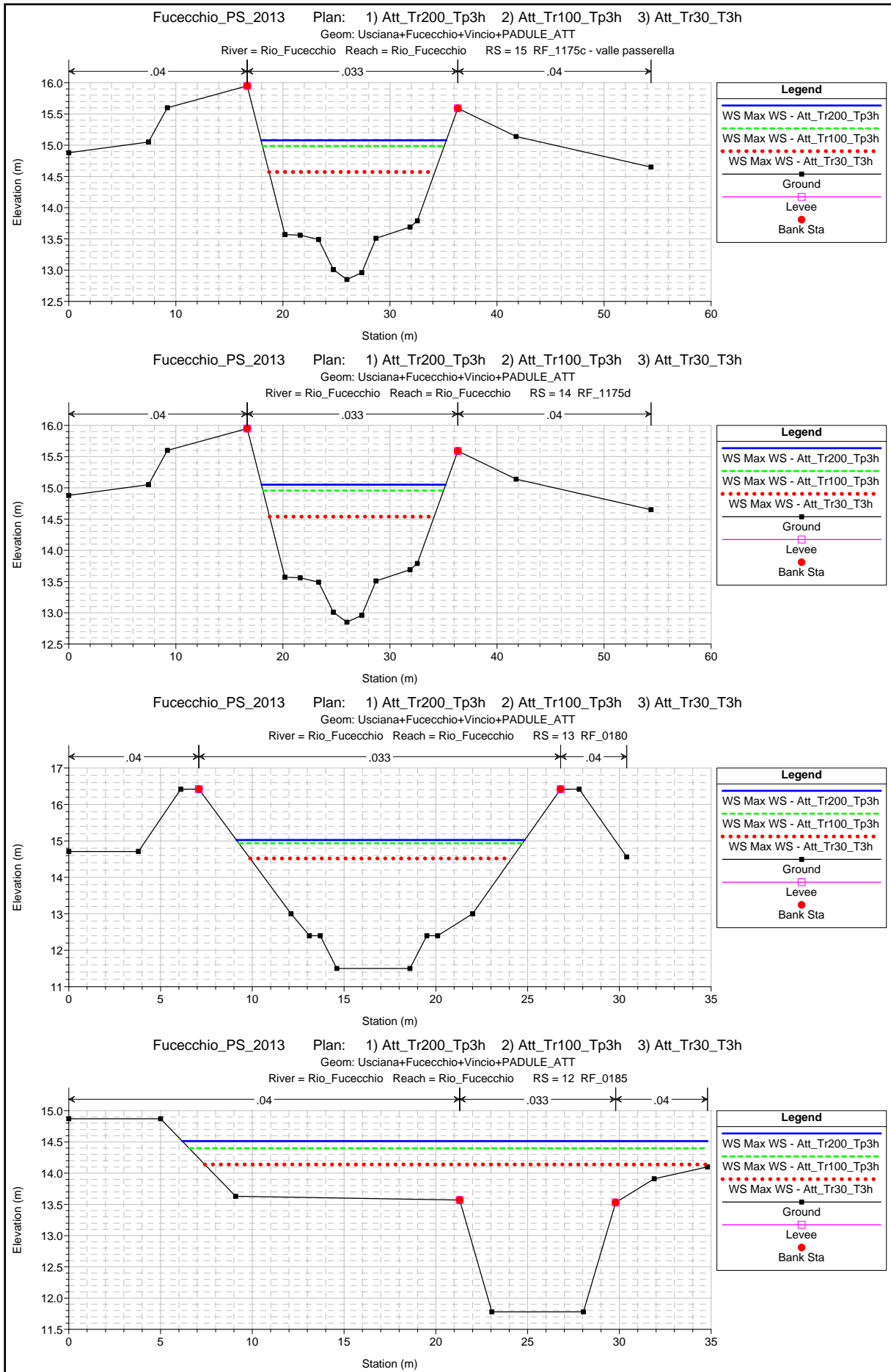


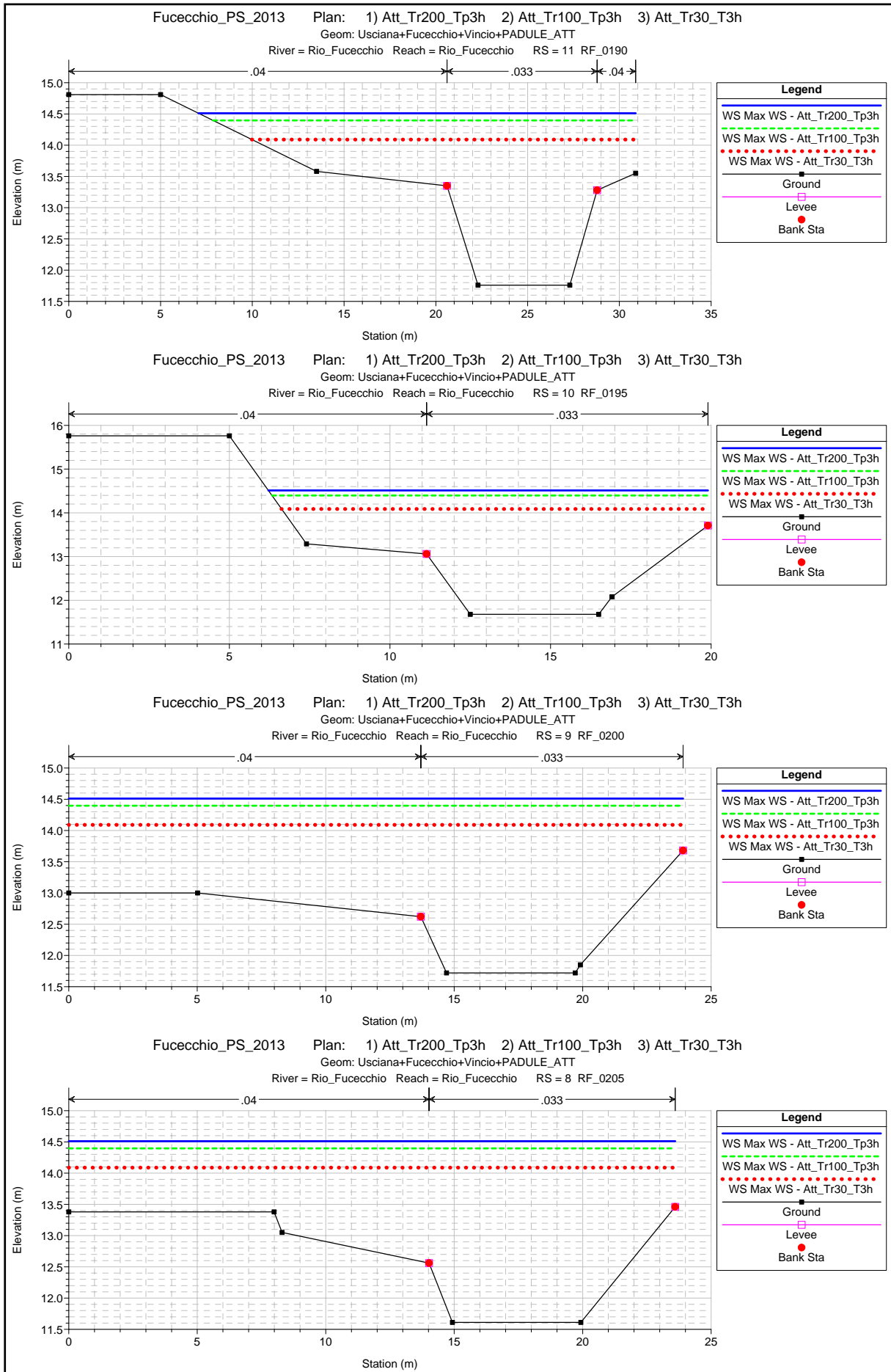


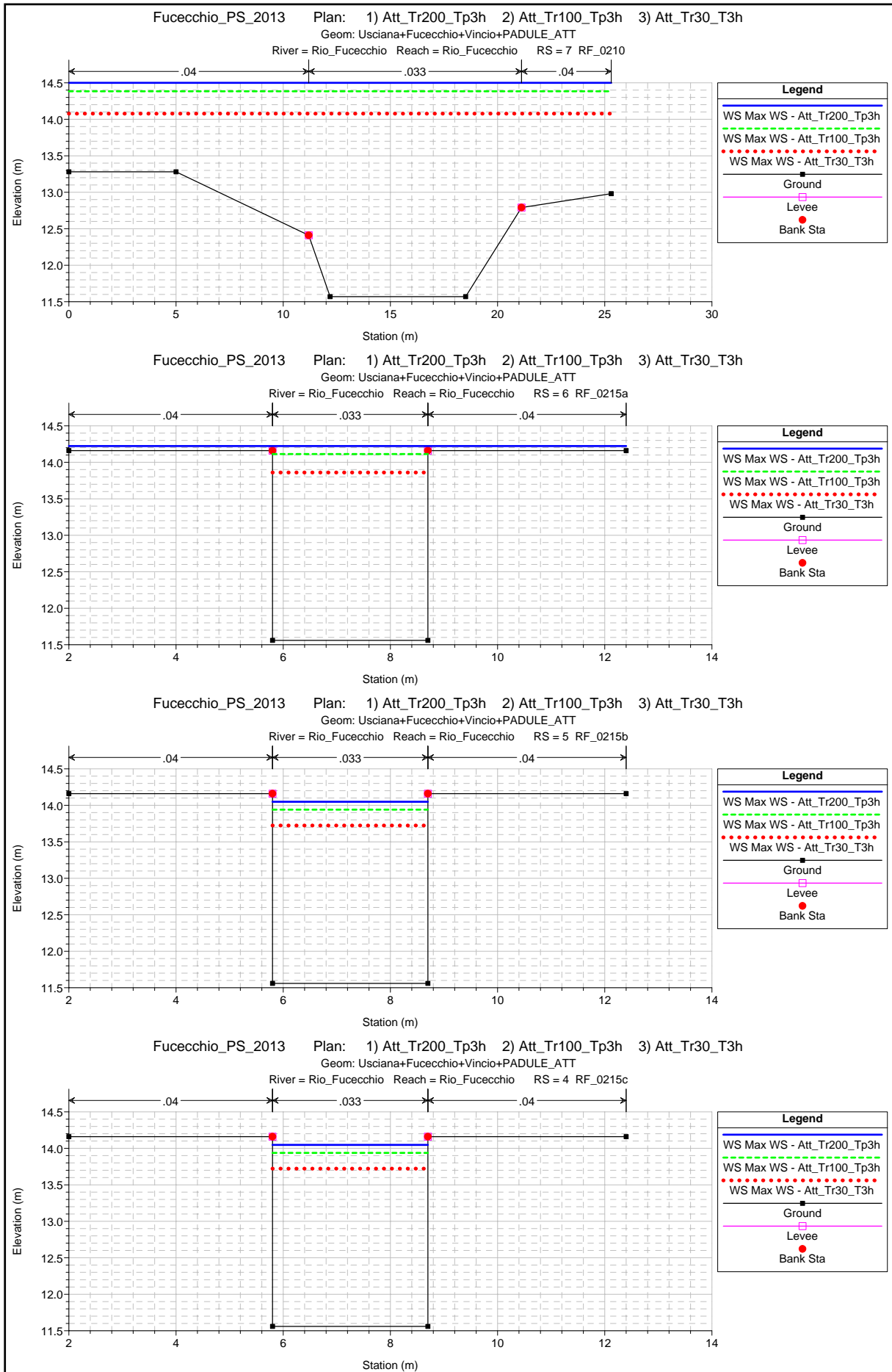


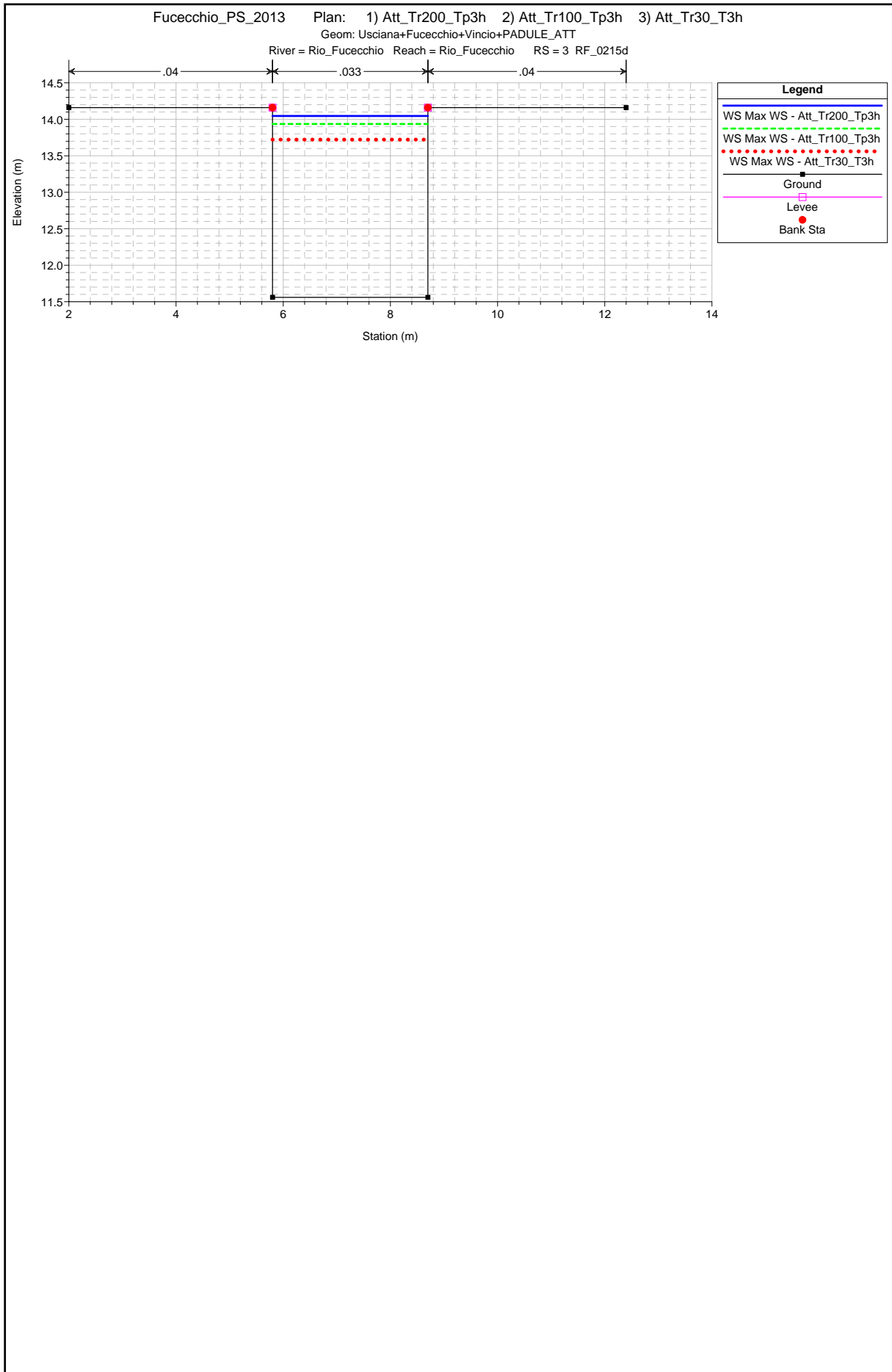












HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	77	Max WS	Att_Tr200_Tp3h	50.62	22.97	26.21		26.23	0.000559	1.04	108.52	214.12	0.22
Rio_Fucecchio	77	Max WS	Att_Tr100_Tp3h	41.18	22.97	26.12		26.15	0.000588	1.04	90.00	212.38	0.22
Rio_Fucecchio	77	Max WS	Att_Tr30_T3h	27.41	22.97	26.06		26.08	0.000357	0.80	78.50	211.30	0.17
Rio_Fucecchio	76.8	Max WS	Att_Tr200_Tp3h	50.62	22.97	26.20		26.23	0.000562	1.05	108.26	214.10	0.22
Rio_Fucecchio	76.8	Max WS	Att_Tr100_Tp3h	41.18	22.97	26.12		26.15	0.000593	1.05	89.74	212.36	0.23
Rio_Fucecchio	76.8	Max WS	Att_Tr30_T3h	27.36	22.97	26.06		26.08	0.000357	0.80	78.31	211.28	0.17
Rio_Fucecchio	76	Max WS	Att_Tr200_Tp3h	46.11	22.97	26.20	25.86	26.22	0.000470	0.96	107.93	214.07	0.20
Rio_Fucecchio	76	Max WS	Att_Tr100_Tp3h	41.18	22.97	26.12	25.22	26.14	0.000599	1.05	89.35	212.32	0.23
Rio_Fucecchio	76	Max WS	Att_Tr30_T3h	27.29	22.97	26.06	24.82	26.08	0.000357	0.80	78.12	211.26	0.17
Rio_Fucecchio	75.5			Bridge									
Rio_Fucecchio	75	Max WS	Att_Tr200_Tp3h	50.62	22.97	25.69		26.33	0.008537	3.54	14.30	7.85	0.84
Rio_Fucecchio	75	Max WS	Att_Tr100_Tp3h	41.18	22.97	25.61		26.07	0.006435	3.02	13.64	7.74	0.73
Rio_Fucecchio	75	Max WS	Att_Tr30_T3h	23.25	22.97	25.39		25.58	0.002938	1.94	11.98	7.46	0.49
Rio_Fucecchio	74	Max WS	Att_Tr200_Tp3h	50.62	22.97	25.66		26.32	0.008996	3.61	14.03	7.80	0.86
Rio_Fucecchio	74	Max WS	Att_Tr100_Tp3h	41.18	22.97	25.57		26.06	0.006758	3.07	13.40	7.70	0.74
Rio_Fucecchio	74	Max WS	Att_Tr30_T3h	23.25	22.97	25.37		25.56	0.003040	1.97	11.83	7.44	0.50
Rio_Fucecchio	73	Max WS	Att_Tr200_Tp3h	50.62	23.24	25.65		25.80	0.003447	2.31	46.95	118.24	0.55
Rio_Fucecchio	73	Max WS	Att_Tr100_Tp3h	41.18	23.24	25.57		25.73	0.003428	2.24	37.97	104.01	0.54
Rio_Fucecchio	73	Max WS	Att_Tr30_T3h	28.67	23.24	25.39		25.60	0.004096	2.27	22.19	72.48	0.58
Rio_Fucecchio	72	Max WS	Att_Tr200_Tp3h	50.62	22.52	25.01		25.23	0.004380	2.64	36.92	80.57	0.62
Rio_Fucecchio	72	Max WS	Att_Tr100_Tp3h	41.18	22.52	24.93		25.14	0.004123	2.48	30.62	71.39	0.59
Rio_Fucecchio	72	Max WS	Att_Tr30_T3h	27.63	22.52	24.69		24.96	0.005129	2.51	16.56	44.53	0.65
Rio_Fucecchio	71	Max WS	Att_Tr200_Tp3h	50.62	22.17	24.62		24.88	0.004629	2.85	32.58	63.85	0.64
Rio_Fucecchio	71	Max WS	Att_Tr100_Tp3h	41.18	22.17	24.51		24.77	0.004510	2.71	26.34	53.77	0.63
Rio_Fucecchio	71	Max WS	Att_Tr30_T3h	27.63	22.17	24.31		24.54	0.004130	2.41	17.48	34.74	0.59
Rio_Fucecchio	70	Max WS	Att_Tr200_Tp3h	50.60	20.97	23.78		23.78	0.000218	0.71	185.79	341.31	0.15
Rio_Fucecchio	70	Max WS	Att_Tr100_Tp3h	41.16	20.97	23.64		23.65	0.000265	0.76	143.04	293.55	0.16
Rio_Fucecchio	70	Max WS	Att_Tr30_T3h	23.62	20.97	23.07		23.14	0.001629	1.54	35.98	130.83	0.38
Rio_Fucecchio	69.5	Max WS	Att_Tr200_Tp3h	50.59	20.73	23.76		23.77	0.000275	0.74	133.06	195.41	0.16

HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	69.5	Max WS	Att_Tr100_Tp3h	41.16	20.73	23.63		23.64	0.000320	0.77	107.21	190.29	0.17
Rio_Fucecchio	69.5	Max WS	Att_Tr30_T3h	27.63	20.73	22.83		23.17	0.006366	2.56	10.79	8.49	0.73
Rio_Fucecchio	69	Max WS	Att_Tr200_Tp3h	61.46	20.49	23.40		23.91	0.006215	3.17	19.73	14.73	0.75
Rio_Fucecchio	69	Max WS	Att_Tr100_Tp3h	50.35	20.49	23.28		23.68	0.005102	2.78	18.11	10.53	0.68
Rio_Fucecchio	69	Max WS	Att_Tr30_T3h	30.94	20.49	22.38		22.89	0.009959	3.15	9.83	7.90	0.90
Rio_Fucecchio	68.98			Lat Struct									
Rio_Fucecchio	68	Max WS	Att_Tr200_Tp3h	60.61	20.58	23.52		23.67	0.001376	1.73	35.29	19.95	0.36
Rio_Fucecchio	68	Max WS	Att_Tr100_Tp3h	50.30	20.58	23.42		23.53	0.001076	1.50	33.50	16.72	0.32
Rio_Fucecchio	68	Max WS	Att_Tr30_T3h	30.94	20.58	22.38		22.52	0.002177	1.64	18.92	13.26	0.44
Rio_Fucecchio	67	Max WS	Att_Tr200_Tp3h	60.61	20.58	23.51	22.23	23.66	0.001394	1.74	35.09	19.64	0.37
Rio_Fucecchio	67	Max WS	Att_Tr100_Tp3h	50.30	20.58	23.41	22.07	23.53	0.001085	1.51	33.39	16.52	0.32
Rio_Fucecchio	67	Max WS	Att_Tr30_T3h	30.94	20.58	22.37	21.74	22.50	0.002246	1.65	18.73	13.24	0.44
Rio_Fucecchio	66.5			Bridge									
Rio_Fucecchio	66	Max WS	Att_Tr200_Tp3h	60.61	20.58	23.35		23.53	0.001705	1.87	32.45	14.76	0.40
Rio_Fucecchio	66	Max WS	Att_Tr100_Tp3h	50.32	20.58	23.19		23.33	0.001446	1.67	30.11	14.33	0.37
Rio_Fucecchio	66	Max WS	Att_Tr30_T3h	30.94	20.58	22.32		22.47	0.002462	1.70	18.17	13.18	0.46
Rio_Fucecchio	65	Max WS	Att_Tr200_Tp3h	60.61	20.58	23.34		23.52	0.001725	1.88	32.31	14.72	0.40
Rio_Fucecchio	65	Max WS	Att_Tr100_Tp3h	50.32	20.58	23.18		23.33	0.001462	1.68	29.99	14.32	0.37
Rio_Fucecchio	65	Max WS	Att_Tr30_T3h	30.94	20.58	22.31		22.46	0.002547	1.72	17.97	13.16	0.47
Rio_Fucecchio	64.9			Lat Struct									
Rio_Fucecchio	64	Max WS	Att_Tr200_Tp3h	59.57	19.78	23.33		23.44	0.000850	1.54	48.82	56.29	0.30
Rio_Fucecchio	64	Max WS	Att_Tr100_Tp3h	50.02	19.78	23.17		23.27	0.000809	1.44	39.89	48.60	0.29
Rio_Fucecchio	64	Max WS	Att_Tr30_T3h	30.94	19.78	22.27		22.37	0.001284	1.42	21.73	12.65	0.35
Rio_Fucecchio	63	Max WS	Att_Tr200_Tp3h	59.57	19.78	23.15	21.91	23.46	0.003903	2.50	25.11	46.11	0.60
Rio_Fucecchio	63	Max WS	Att_Tr100_Tp3h	50.02	19.78	23.03	21.71	23.28	0.001357	2.21	22.60	32.04	0.41
Rio_Fucecchio	63	Max WS	Att_Tr30_T3h	30.94	19.78	22.18	21.26	22.37	0.001611	1.92	16.09	12.44	0.42
Rio_Fucecchio	62.5			Bridge									

HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	62	Max WS	Att_Tr200_Tp3h	59.57	19.78	22.84		23.24	0.002411	2.82	21.12	17.95	0.54
Rio_Fucecchio	62	Max WS	Att_Tr100_Tp3h	50.02	19.78	22.66		22.99	0.002109	2.53	19.79	15.65	0.50
Rio_Fucecchio	62	Max WS	Att_Tr30_T3h	30.94	19.78	22.15		22.34	0.001678	1.95	15.89	12.38	0.43
Rio_Fucecchio	61	Max WS	Att_Tr200_Tp3h	59.57	19.78	23.04		23.21	0.001389	1.82	35.86	38.72	0.38
Rio_Fucecchio	61	Max WS	Att_Tr100_Tp3h	50.02	19.78	22.82		22.97	0.001407	1.71	29.74	17.95	0.37
Rio_Fucecchio	61	Max WS	Att_Tr30_T3h	30.94	19.78	22.23		22.34	0.001375	1.46	21.22	12.56	0.36
Rio_Fucecchio	60	Max WS	Att_Tr200_Tp3h	59.57	19.79	22.80		23.18	0.003675	2.82	23.86	15.40	0.59
Rio_Fucecchio	60	Max WS	Att_Tr100_Tp3h	50.02	19.79	22.58		22.93	0.003843	2.70	20.44	15.19	0.60
Rio_Fucecchio	60	Max WS	Att_Tr30_T3h	30.93	19.79	21.97		22.28	0.004689	2.46	12.74	11.06	0.63
Rio_Fucecchio	59	Max WS	Att_Tr200_Tp3h	59.57	19.50	22.55		23.00	0.004573	3.01	21.63	15.28	0.64
Rio_Fucecchio	59	Max WS	Att_Tr100_Tp3h	50.02	19.50	22.32		22.74	0.004892	2.89	18.08	15.10	0.65
Rio_Fucecchio	59	Max WS	Att_Tr30_T3h	30.93	19.50	21.76		22.07	0.004667	2.47	12.54	7.71	0.62
Rio_Fucecchio	58	Max WS	Att_Tr200_Tp3h	59.56	19.12	22.27		22.74	0.004864	3.05	20.36	10.90	0.63
Rio_Fucecchio	58	Max WS	Att_Tr100_Tp3h	50.00	19.12	22.07		22.48	0.004624	2.84	18.13	10.90	0.62
Rio_Fucecchio	58	Max WS	Att_Tr30_T3h	30.93	19.12	21.56		21.83	0.003902	2.31	13.38	7.84	0.56
Rio_Fucecchio	57	Max WS	Att_Tr200_Tp3h	59.55	18.91	22.00		22.40	0.003820	2.86	23.19	14.49	0.60
Rio_Fucecchio	57	Max WS	Att_Tr100_Tp3h	49.94	18.91	21.79		22.15	0.003883	2.71	20.13	14.30	0.59
Rio_Fucecchio	57	Max WS	Att_Tr30_T3h	30.93	18.91	21.28		21.55	0.003847	2.29	13.53	8.18	0.57
Rio_Fucecchio	56	Max WS	Att_Tr200_Tp3h	59.55	18.63	21.89		22.23	0.003136	2.71	25.41	14.53	0.54
Rio_Fucecchio	56	Max WS	Att_Tr100_Tp3h	48.01	18.63	21.69		21.97	0.002839	2.44	22.45	14.35	0.51
Rio_Fucecchio	56	Max WS	Att_Tr30_T3h	30.93	18.63	21.15		21.39	0.003249	2.19	14.88	10.88	0.52
Rio_Fucecchio	55	Max WS	Att_Tr200_Tp3h	59.54	18.39	21.79		22.08	0.002494	2.48	27.53	15.60	0.49
Rio_Fucecchio	55	Max WS	Att_Tr100_Tp3h	47.06	18.39	21.60		21.82	0.002097	2.16	24.61	15.22	0.45
Rio_Fucecchio	55	Max WS	Att_Tr30_T3h	30.93	18.39	21.03		21.23	0.002579	2.00	16.11	14.51	0.47
Rio_Fucecchio	54	Max WS	Att_Tr200_Tp3h	59.54	18.14	21.49		21.91	0.004219	2.97	22.39	14.03	0.60
Rio_Fucecchio	54	Max WS	Att_Tr100_Tp3h	44.50	18.14	21.42		21.68	0.002627	2.30	21.44	13.97	0.47
Rio_Fucecchio	54	Max WS	Att_Tr30_T3h	30.93	18.14	20.81		21.07	0.003489	2.23	13.85	7.35	0.52
Rio_Fucecchio	53	Max WS	Att_Tr200_Tp3h	59.54	17.90	21.58		21.62	0.000530	1.16	90.71	90.33	0.22
Rio_Fucecchio	53	Max WS	Att_Tr100_Tp3h	43.96	17.90	21.48		21.51	0.000372	0.94	81.78	87.21	0.18
Rio_Fucecchio	53	Max WS	Att_Tr30_T3h	30.93	17.90	20.72		20.92	0.002387	1.97	16.34	10.77	0.44



HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	52.9			Lat Struct									
Rio_Fucecchio	52	Max WS	Att_Tr200_Tp3h	59.52	18.06	21.52		21.66	0.001662	1.88	49.22	72.74	0.41
Rio_Fucecchio	52	Max WS	Att_Tr100_Tp3h	43.54	18.06	21.43		21.52	0.001159	1.53	42.87	70.00	0.34
Rio_Fucecchio	52	Max WS	Att_Tr30_T3h	30.93	18.06	20.64		20.86	0.003374	2.09	14.79	10.07	0.55
Rio_Fucecchio	51	Max WS	Att_Tr200_Tp3h	59.52	18.06	21.51	20.71	21.65	0.001712	1.90	48.49	72.43	0.41
Rio_Fucecchio	51	Max WS	Att_Tr100_Tp3h	43.38	18.06	21.42	20.37	21.52	0.001173	1.53	42.44	69.81	0.34
Rio_Fucecchio	51	Max WS	Att_Tr30_T3h	30.93	18.06	20.62	20.06	20.85	0.003537	2.13	14.54	10.00	0.56
Rio_Fucecchio	50.5			Bridge									
Rio_Fucecchio	50	Max WS	Att_Tr200_Tp3h	59.51	18.06	20.99		21.52	0.006669	3.22	18.52	11.43	0.79
Rio_Fucecchio	50	Max WS	Att_Tr100_Tp3h	55.64	18.06	20.88		21.41	0.007164	3.23	17.22	10.66	0.81
Rio_Fucecchio	50	Max WS	Att_Tr30_T3h	30.93	18.06	20.32		20.68	0.006470	2.64	11.72	9.26	0.75
Rio_Fucecchio	49	Max WS	Att_Tr200_Tp3h	59.51	18.06	20.93		21.50	0.007455	3.34	17.82	10.80	0.83
Rio_Fucecchio	49	Max WS	Att_Tr100_Tp3h	56.05	18.06	20.79		21.39	0.008374	3.43	16.36	10.45	0.87
Rio_Fucecchio	49	Max WS	Att_Tr30_T3h	30.93	18.06	20.25		20.65	0.007627	2.80	11.05	9.08	0.81
Rio_Fucecchio	48.9			Lat Struct									
Rio_Fucecchio	48	Max WS	Att_Tr200_Tp3h	59.51	17.69	20.88		21.14	0.002365	2.42	28.80	17.02	0.49
Rio_Fucecchio	48	Max WS	Att_Tr100_Tp3h	54.35	17.69	20.66		20.95	0.002824	2.49	25.22	16.62	0.53
Rio_Fucecchio	48	Max WS	Att_Tr30_T3h	30.93	17.69	20.10		20.31	0.002868	2.07	16.09	15.53	0.51
Rio_Fucecchio	47	Max WS	Att_Tr200_Tp3h	59.51	17.53	20.69		20.95	0.002286	2.36	29.03	16.86	0.49
Rio_Fucecchio	47	Max WS	Att_Tr100_Tp3h	51.53	17.53	20.43		20.70	0.002646	2.36	24.77	16.58	0.51
Rio_Fucecchio	47	Max WS	Att_Tr30_T3h	30.93	17.53	19.79		20.04	0.003642	2.19	14.39	15.88	0.57
Rio_Fucecchio	46	Max WS	Att_Tr200_Tp3h	59.50	17.19	20.60		20.82	0.001793	2.28	35.04	27.63	0.43
Rio_Fucecchio	46	Max WS	Att_Tr100_Tp3h	51.51	17.19	20.33		20.55	0.001985	2.24	28.70	20.11	0.45
Rio_Fucecchio	46	Max WS	Att_Tr30_T3h	30.93	17.19	19.69		19.85	0.002045	1.88	18.45	15.15	0.43
Rio_Fucecchio	45	Max WS	Att_Tr200_Tp3h	59.50	17.19	20.40		20.68	0.002402	2.51	30.19	22.11	0.49
Rio_Fucecchio	45	Max WS	Att_Tr100_Tp3h	51.47	17.19	20.14		20.39	0.002477	2.38	25.39	15.57	0.49
Rio_Fucecchio	45	Max WS	Att_Tr30_T3h	30.93	17.19	19.42		19.66	0.003466	2.25	15.03	11.13	0.55

HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	44	Max WS	Att_Tr200_Tp3h	59.50	17.33	20.42		20.51	0.000948	1.31	45.53	25.22	0.31
Rio_Fucecchio	44	Max WS	Att_Tr100_Tp3h	51.50	17.33	20.15		20.24	0.001106	1.33	38.73	23.58	0.33
Rio_Fucecchio	44	Max WS	Att_Tr30_T3h	30.93	17.33	19.33		19.44	0.002027	1.44	21.55	18.80	0.43
Rio_Fucecchio	43	Max WS	Att_Tr200_Tp3h	59.50	17.33	20.06	19.48	20.58	0.003565	3.18	18.72	23.10	0.66
Rio_Fucecchio	43	Max WS	Att_Tr100_Tp3h	51.48	17.33	19.81	19.31	20.29	0.003898	3.08	16.71	21.59	0.67
Rio_Fucecchio	43	Max WS	Att_Tr30_T3h	30.93	17.33	19.06	18.84	19.47	0.005905	2.85	10.86	17.18	0.77
Rio_Fucecchio	42.5			Bridge									
Rio_Fucecchio	42	Max WS	Att_Tr200_Tp3h	59.50	16.75	19.45		20.25	0.009056	3.97	15.01	10.96	0.87
Rio_Fucecchio	42	Max WS	Att_Tr100_Tp3h	50.81	16.75	19.36		20.00	0.007668	3.54	14.35	10.79	0.79
Rio_Fucecchio	42	Max WS	Att_Tr30_T3h	30.93	16.75	18.90		19.29	0.006677	2.79	11.10	7.85	0.71
Rio_Fucecchio	41	Max WS	Att_Tr200_Tp3h	59.50	16.75	19.59		20.15	0.009212	3.32	17.93	11.24	0.84
Rio_Fucecchio	41	Max WS	Att_Tr100_Tp3h	51.45	16.75	19.42		19.94	0.009425	3.20	16.07	10.90	0.84
Rio_Fucecchio	41	Max WS	Att_Tr30_T3h	30.93	16.75	18.84		19.26	0.008428	2.86	10.81	7.73	0.77
Rio_Fucecchio	40	Max WS	Att_Tr200_Tp3h	59.50	16.52	19.62		19.76	0.001425	1.71	34.77	16.35	0.37
Rio_Fucecchio	40	Max WS	Att_Tr100_Tp3h	51.42	16.52	19.42		19.56	0.001407	1.62	31.65	16.09	0.37
Rio_Fucecchio	40	Max WS	Att_Tr30_T3h	30.93	16.52	18.85		18.94	0.001400	1.37	22.62	15.32	0.36
Rio_Fucecchio	39	Max WS	Att_Tr200_Tp3h	59.50	16.52	19.61	18.51	19.76	0.001448	1.72	34.59	16.33	0.38
Rio_Fucecchio	39	Max WS	Att_Tr100_Tp3h	51.41	16.52	19.41	18.40	19.55	0.001431	1.63	31.47	16.07	0.37
Rio_Fucecchio	39	Max WS	Att_Tr30_T3h	30.93	16.52	18.84	18.08	18.94	0.001432	1.38	22.46	15.29	0.36
Rio_Fucecchio	38.5			Bridge									
Rio_Fucecchio	38	Max WS	Att_Tr200_Tp3h	59.50	16.52	19.37		19.56	0.002047	1.93	30.78	16.01	0.44
Rio_Fucecchio	38	Max WS	Att_Tr100_Tp3h	51.41	16.52	19.22		19.39	0.001956	1.81	28.35	15.80	0.43
Rio_Fucecchio	38	Max WS	Att_Tr30_T3h	30.93	16.52	18.73		18.84	0.001825	1.49	20.74	15.14	0.41
Rio_Fucecchio	37	Max WS	Att_Tr200_Tp3h	59.50	16.52	19.36		19.55	0.002078	1.94	30.63	16.00	0.45
Rio_Fucecchio	37	Max WS	Att_Tr100_Tp3h	51.41	16.52	19.21		19.38	0.001986	1.82	28.20	15.80	0.44
Rio_Fucecchio	37	Max WS	Att_Tr30_T3h	30.93	16.52	18.72		18.83	0.001861	1.50	20.61	15.15	0.41
Rio_Fucecchio	36	Max WS	Att_Tr200_Tp3h	59.50	16.64	18.88		19.42	0.008574	3.25	18.30	12.98	0.87
Rio_Fucecchio	36	Max WS	Att_Tr100_Tp3h	51.35	16.64	18.74		19.23	0.008641	3.11	16.51	12.63	0.87
Rio_Fucecchio	36	Max WS	Att_Tr30_T3h	30.93	16.64	18.29		18.69	0.010410	2.80	11.03	11.51	0.91

HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	35	Max WS	Att_Tr200_Tp3h	59.50	15.94	18.98		19.16	0.001859	1.90	31.38	13.92	0.40
Rio_Fucecchio	35	Max WS	Att_Tr100_Tp3h	51.32	15.94	18.83		18.99	0.001698	1.75	29.31	13.92	0.39
Rio_Fucecchio	35	Max WS	Att_Tr30_T3h	30.93	15.94	18.29		18.39	0.001532	1.42	21.75	13.92	0.36
Rio_Fucecchio	34	Max WS	Att_Tr200_Tp3h	59.50	15.94	18.97	17.96	19.16	0.001886	1.91	31.23	13.92	0.41
Rio_Fucecchio	34	Max WS	Att_Tr100_Tp3h	51.32	15.94	18.82	17.84	18.98	0.001723	1.76	29.17	13.92	0.39
Rio_Fucecchio	34	Max WS	Att_Tr30_T3h	30.93	15.94	18.28	17.52	18.38	0.001560	1.43	21.62	13.92	0.37
Rio_Fucecchio	33.5			Bridge									
Rio_Fucecchio	33	Max WS	Att_Tr200_Tp3h	59.50	15.94	18.90		19.09	0.002091	1.97	30.18	13.92	0.43
Rio_Fucecchio	33	Max WS	Att_Tr100_Tp3h	51.32	15.94	18.76		18.93	0.001886	1.81	28.31	13.92	0.41
Rio_Fucecchio	33	Max WS	Att_Tr30_T3h	30.92	15.94	18.24		18.35	0.001693	1.47	21.05	13.92	0.38
Rio_Fucecchio	32.9			Lat Struct									
Rio_Fucecchio	32.8			Lat Struct									
Rio_Fucecchio	32	Max WS	Att_Tr200_Tp3h	59.50	15.94	18.88		19.08	0.002129	1.98	30.00	13.92	0.43
Rio_Fucecchio	32	Max WS	Att_Tr100_Tp3h	51.32	15.94	18.75		18.92	0.001919	1.82	28.15	13.92	0.41
Rio_Fucecchio	32	Max WS	Att_Tr30_T3h	30.92	15.94	18.23		18.34	0.001729	1.48	20.91	13.92	0.39
Rio_Fucecchio	31	Max WS	Att_Tr200_Tp3h	59.50	15.60	18.68		18.87	0.002018	1.93	30.91	16.49	0.45
Rio_Fucecchio	31	Max WS	Att_Tr100_Tp3h	51.27	15.60	18.57		18.73	0.001794	1.76	29.06	16.22	0.42
Rio_Fucecchio	31	Max WS	Att_Tr30_T3h	30.92	15.60	18.04		18.16	0.001721	1.48	20.91	14.96	0.40
Rio_Fucecchio	30	Max WS	Att_Tr200_Tp3h	58.35	15.33	18.38		18.50	0.001265	1.58	43.49	36.95	0.36
Rio_Fucecchio	30	Max WS	Att_Tr100_Tp3h	50.59	15.33	18.29		18.39	0.001142	1.46	40.26	36.84	0.34
Rio_Fucecchio	30	Max WS	Att_Tr30_T3h	30.92	15.33	17.75		17.84	0.001273	1.33	23.21	15.53	0.35
Rio_Fucecchio	29	Max WS	Att_Tr200_Tp3h	54.00	14.79	17.49		17.81	0.004264	2.51	21.52	13.20	0.63
Rio_Fucecchio	29	Max WS	Att_Tr100_Tp3h	49.83	14.79	17.41		17.71	0.004204	2.44	20.42	12.93	0.62
Rio_Fucecchio	29	Max WS	Att_Tr30_T3h	30.92	14.79	16.98		17.19	0.003715	2.04	15.19	11.57	0.57
Rio_Fucecchio	28	Max WS	Att_Tr200_Tp3h	54.00	14.52	16.87		17.15	0.004155	2.36	22.91	15.97	0.63
Rio_Fucecchio	28	Max WS	Att_Tr100_Tp3h	49.70	14.52	16.77		17.05	0.004349	2.33	21.32	15.66	0.64
Rio_Fucecchio	28	Max WS	Att_Tr30_T3h	30.92	14.52	16.33		16.55	0.005060	2.10	14.71	14.29	0.66

HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	27	Max WS	Att_Tr200_Tp3h	54.00	13.90	16.74		16.81	0.000716	1.20	44.85	23.64	0.28
Rio_Fucecchio	27	Max WS	Att_Tr100_Tp3h	49.65	13.90	16.62		16.69	0.000732	1.18	42.01	23.19	0.28
Rio_Fucecchio	27	Max WS	Att_Tr30_T3h	30.91	13.90	16.06		16.11	0.000796	1.04	29.60	21.11	0.28
Rio_Fucecchio	26	Max WS	Att_Tr200_Tp3h	54.00	13.90	16.74	15.47	16.81	0.000723	1.21	44.70	23.62	0.28
Rio_Fucecchio	26	Max WS	Att_Tr100_Tp3h	49.64	13.90	16.61	15.41	16.69	0.000740	1.19	41.86	23.17	0.28
Rio_Fucecchio	26	Max WS	Att_Tr30_T3h	30.91	13.90	16.05	15.15	16.11	0.000807	1.05	29.45	21.08	0.28
Rio_Fucecchio	25.5			Bridge									
Rio_Fucecchio	25	Max WS	Att_Tr200_Tp3h	54.00	13.90	16.69		16.77	0.000773	1.24	43.67	23.45	0.29
Rio_Fucecchio	25	Max WS	Att_Tr100_Tp3h	49.59	13.90	16.57		16.65	0.000788	1.21	40.93	23.02	0.29
Rio_Fucecchio	25	Max WS	Att_Tr30_T3h	30.91	13.90	16.03		16.08	0.000855	1.07	28.89	20.98	0.29
Rio_Fucecchio	24.9			Lat Struct									
Rio_Fucecchio	24.8			Lat Struct									
Rio_Fucecchio	24	Max WS	Att_Tr200_Tp3h	54.00	13.90	16.69		16.77	0.000776	1.24	43.63	23.45	0.29
Rio_Fucecchio	24	Max WS	Att_Tr100_Tp3h	49.59	13.90	16.57		16.64	0.000790	1.21	40.89	23.01	0.29
Rio_Fucecchio	24	Max WS	Att_Tr30_T3h	30.91	13.90	16.02		16.08	0.000859	1.07	28.85	20.97	0.29
Rio_Fucecchio	23	Max WS	Att_Tr200_Tp3h	53.99	13.04	16.28		16.42	0.001286	1.65	32.67	18.96	0.36
Rio_Fucecchio	23	Max WS	Att_Tr100_Tp3h	49.51	13.04	16.17		16.30	0.001253	1.60	30.98	14.89	0.35
Rio_Fucecchio	23	Max WS	Att_Tr30_T3h	30.91	13.04	15.67		15.75	0.001034	1.30	23.76	13.61	0.31
Rio_Fucecchio	22	Max WS	Att_Tr200_Tp3h	53.99	13.39	16.20		16.36	0.001774	1.75	30.87	17.81	0.42
Rio_Fucecchio	22	Max WS	Att_Tr100_Tp3h	49.51	13.39	16.09		16.24	0.001811	1.72	28.85	17.44	0.43
Rio_Fucecchio	22	Max WS	Att_Tr30_T3h	30.91	13.39	15.57		15.69	0.001981	1.53	20.25	15.75	0.43
Rio_Fucecchio	21	Max WS	Att_Tr200_Tp3h	53.99	13.39	16.00	15.39	16.36	0.003148	2.65	20.37	17.14	0.59
Rio_Fucecchio	21	Max WS	Att_Tr100_Tp3h	49.51	13.39	15.90	15.31	16.23	0.003100	2.55	19.42	16.83	0.58
Rio_Fucecchio	21	Max WS	Att_Tr30_T3h	30.91	13.39	15.46	14.94	15.68	0.002812	2.05	15.08	15.40	0.53
Rio_Fucecchio	20.5			Bridge									
Rio_Fucecchio	20	Max WS	Att_Tr200_Tp3h	53.99	13.39	15.88		16.29	0.003804	2.81	19.24	16.77	0.64
Rio_Fucecchio	20	Max WS	Att_Tr100_Tp3h	49.49	13.39	15.80		16.17	0.003712	2.69	18.40	16.50	0.63
Rio_Fucecchio	20	Max WS	Att_Tr30_T3h	30.91	13.39	15.39		15.63	0.003316	2.15	14.35	15.16	0.57

HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	19.9			Lat Struct									
Rio_Fucecchio	19.8			Lat Struct									
Rio_Fucecchio	19	Max WS	Att_Tr200_Tp3h	53.99	13.39	16.08		16.26	0.002189	1.88	28.69	17.41	0.47
Rio_Fucecchio	19	Max WS	Att_Tr100_Tp3h	49.51	13.39	15.97		16.15	0.002233	1.85	26.83	17.06	0.47
Rio_Fucecchio	19	Max WS	Att_Tr30_T3h	30.91	13.39	15.47		15.61	0.002492	1.65	18.73	15.43	0.48
Rio_Fucecchio	18	Max WS	Att_Tr200_Tp3h	53.99	12.30	15.71		15.84	0.001125	1.56	34.50	15.84	0.34
Rio_Fucecchio	18	Max WS	Att_Tr100_Tp3h	49.48	12.30	15.61		15.72	0.001079	1.51	32.88	15.54	0.33
Rio_Fucecchio	18	Max WS	Att_Tr30_T3h	30.90	12.30	15.13		15.20	0.000833	1.20	25.72	14.12	0.28
Rio_Fucecchio	17	Max WS	Att_Tr200_Tp3h	53.99	12.85	15.28		15.47	0.002388	1.92	28.16	18.03	0.49
Rio_Fucecchio	17	Max WS	Att_Tr100_Tp3h	49.46	12.85	15.18		15.36	0.002415	1.87	26.40	17.68	0.49
Rio_Fucecchio	17	Max WS	Att_Tr30_T3h	30.90	12.85	14.75		14.88	0.002459	1.63	19.01	16.11	0.48
Rio_Fucecchio	16	Max WS	Att_Tr200_Tp3h	53.99	12.85	15.27	14.60	15.46	0.002460	1.94	27.87	17.98	0.50
Rio_Fucecchio	16	Max WS	Att_Tr100_Tp3h	49.46	12.85	15.17	14.53	15.35	0.002491	1.89	26.12	17.62	0.50
Rio_Fucecchio	16	Max WS	Att_Tr30_T3h	30.90	12.85	14.73	14.23	14.87	0.002561	1.65	18.75	16.06	0.49
Rio_Fucecchio	15.5			Bridge									
Rio_Fucecchio	15	Max WS	Att_Tr200_Tp3h	53.98	12.85	15.08		15.32	0.003545	2.20	24.57	17.30	0.59
Rio_Fucecchio	15	Max WS	Att_Tr100_Tp3h	49.46	12.85	14.99		15.22	0.003618	2.15	22.97	16.97	0.59
Rio_Fucecchio	15	Max WS	Att_Tr30_T3h	30.88	12.85	14.57		14.76	0.003913	1.90	16.25	15.49	0.59
Rio_Fucecchio	14	Max WS	Att_Tr200_Tp3h	53.98	12.85	15.05		15.31	0.003758	2.24	24.08	17.20	0.60
Rio_Fucecchio	14	Max WS	Att_Tr100_Tp3h	49.46	12.85	14.96		15.20	0.003853	2.20	22.48	16.87	0.61
Rio_Fucecchio	14	Max WS	Att_Tr30_T3h	30.88	12.85	14.54		14.73	0.004288	1.96	15.76	15.37	0.62
Rio_Fucecchio	13.9			Lat Struct									
Rio_Fucecchio	13.8			Lat Struct									
Rio_Fucecchio	13	Max WS	Att_Tr200_Tp3h	53.98	11.50	15.03		15.14	0.001026	1.52	35.40	15.71	0.32
Rio_Fucecchio	13	Max WS	Att_Tr100_Tp3h	49.46	11.50	14.93		15.04	0.000964	1.46	33.98	15.44	0.31
Rio_Fucecchio	13	Max WS	Att_Tr30_T3h	30.88	11.50	14.52		14.58	0.000653	1.11	27.81	14.25	0.25

HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	12	Max WS	Att_Tr200_Tp3h	27.21	11.78	14.51		14.55	0.000439	1.01	35.69	28.62	0.21
Rio_Fucecchio	12	Max WS	Att_Tr100_Tp3h	25.09	11.78	14.40		14.44	0.000475	1.02	32.43	28.24	0.22
Rio_Fucecchio	12	Max WS	Att_Tr30_T3h	29.89	11.78	14.14		14.24	0.001226	1.51	25.21	27.39	0.34
Rio_Fucecchio	11.8			Lat Struct									
Rio_Fucecchio	11	Max WS	Att_Tr200_Tp3h	13.88	11.76	14.51		14.52	0.000120	0.55	32.77	23.83	0.11
Rio_Fucecchio	11	Max WS	Att_Tr100_Tp3h	12.49	11.76	14.40		14.41	0.000120	0.53	30.08	23.03	0.11
Rio_Fucecchio	11	Max WS	Att_Tr30_T3h	11.04	11.76	14.09		14.10	0.000173	0.58	23.33	20.91	0.13
Rio_Fucecchio	10	Max WS	Att_Tr200_Tp3h	5.61	11.68	14.51		14.51	0.000027	0.24	25.87	13.69	0.05
Rio_Fucecchio	10	Max WS	Att_Tr100_Tp3h	4.73	11.68	14.40		14.40	0.000023	0.22	24.30	13.58	0.05
Rio_Fucecchio	10	Max WS	Att_Tr30_T3h	3.57	11.68	14.09		14.09	0.000022	0.19	20.18	13.28	0.05
Rio_Fucecchio	9	Max WS	Att_Tr200_Tp3h	-1.55	11.72	14.51		14.51	0.000001	-0.04	46.23	23.91	0.01
Rio_Fucecchio	9	Max WS	Att_Tr100_Tp3h	-1.82	11.72	14.40		14.40	0.000001	-0.05	43.48	23.91	0.01
Rio_Fucecchio	9	Max WS	Att_Tr30_T3h	-1.84	11.72	14.09		14.09	0.000002	-0.06	36.12	23.91	0.01
Rio_Fucecchio	8	Max WS	Att_Tr200_Tp3h	-11.68	11.61	14.51		14.52	0.000045	-0.33	43.17	23.60	0.07
Rio_Fucecchio	8	Max WS	Att_Tr100_Tp3h	-10.72	11.61	14.40		14.40	0.000046	-0.33	40.45	23.60	0.07
Rio_Fucecchio	8	Max WS	Att_Tr30_T3h	-8.07	11.61	14.09		14.09	0.000045	-0.30	33.20	23.60	0.07
Rio_Fucecchio	7	Max WS	Att_Tr200_Tp3h	24.47	11.57	14.50		14.52	0.000121	0.63	50.17	25.30	0.12
Rio_Fucecchio	7	Max WS	Att_Tr100_Tp3h	22.87	11.57	14.38		14.40	0.000126	0.62	47.26	25.30	0.12
Rio_Fucecchio	7	Max WS	Att_Tr30_T3h	18.58	11.57	14.08		14.09	0.000140	0.60	39.50	25.30	0.13
Rio_Fucecchio	6	Max WS	Att_Tr200_Tp3h	25.66	11.56	14.22	13.56	14.77	0.018278	3.30	8.19	10.40	0.64
Rio_Fucecchio	6	Max WS	Att_Tr100_Tp3h	24.30	11.56	14.11		14.66	0.013019	3.28	7.40	2.90	0.66
Rio_Fucecchio	6	Max WS	Att_Tr30_T3h	19.66	11.56	13.86		14.30	0.011062	2.95	6.67	2.90	0.62
Rio_Fucecchio	5	Max WS	Att_Tr200_Tp3h	2.72	11.56	14.05		14.06	0.000174	0.38	7.22	2.90	0.08
Rio_Fucecchio	5	Max WS	Att_Tr100_Tp3h	2.86	11.56	13.94		13.95	0.000215	0.41	6.90	2.90	0.09
Rio_Fucecchio	5	Max WS	Att_Tr30_T3h	1.02	11.56	13.72		13.72	0.000035	0.16	6.27	2.90	0.04
Rio_Fucecchio	4	Max WS	Att_Tr200_Tp3h	2.69	11.56	14.05		14.05	0.000170	0.37	7.21	2.90	0.08
Rio_Fucecchio	4	Max WS	Att_Tr100_Tp3h	2.80	11.56	13.94		13.95	0.000207	0.41	6.90	2.90	0.08
Rio_Fucecchio	4	Max WS	Att_Tr30_T3h	1.02	11.56	13.72		13.72	0.000035	0.16	6.27	2.90	0.04
Rio_Fucecchio	3	Max WS	Att_Tr200_Tp3h	2.66	11.56	14.05		14.05	0.000167	0.37	7.21	2.90	0.07

HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	3	Max WS	Att_Tr100_Tp3h	2.74	11.56	13.94		13.94	0.000198	0.40	6.89	2.90	0.08
Rio_Fucecchio	3	Max WS	Att_Tr30_T3h	1.02	11.56	13.72		13.72	0.000035	0.16	6.27	2.90	0.04

# **Scenario A2**

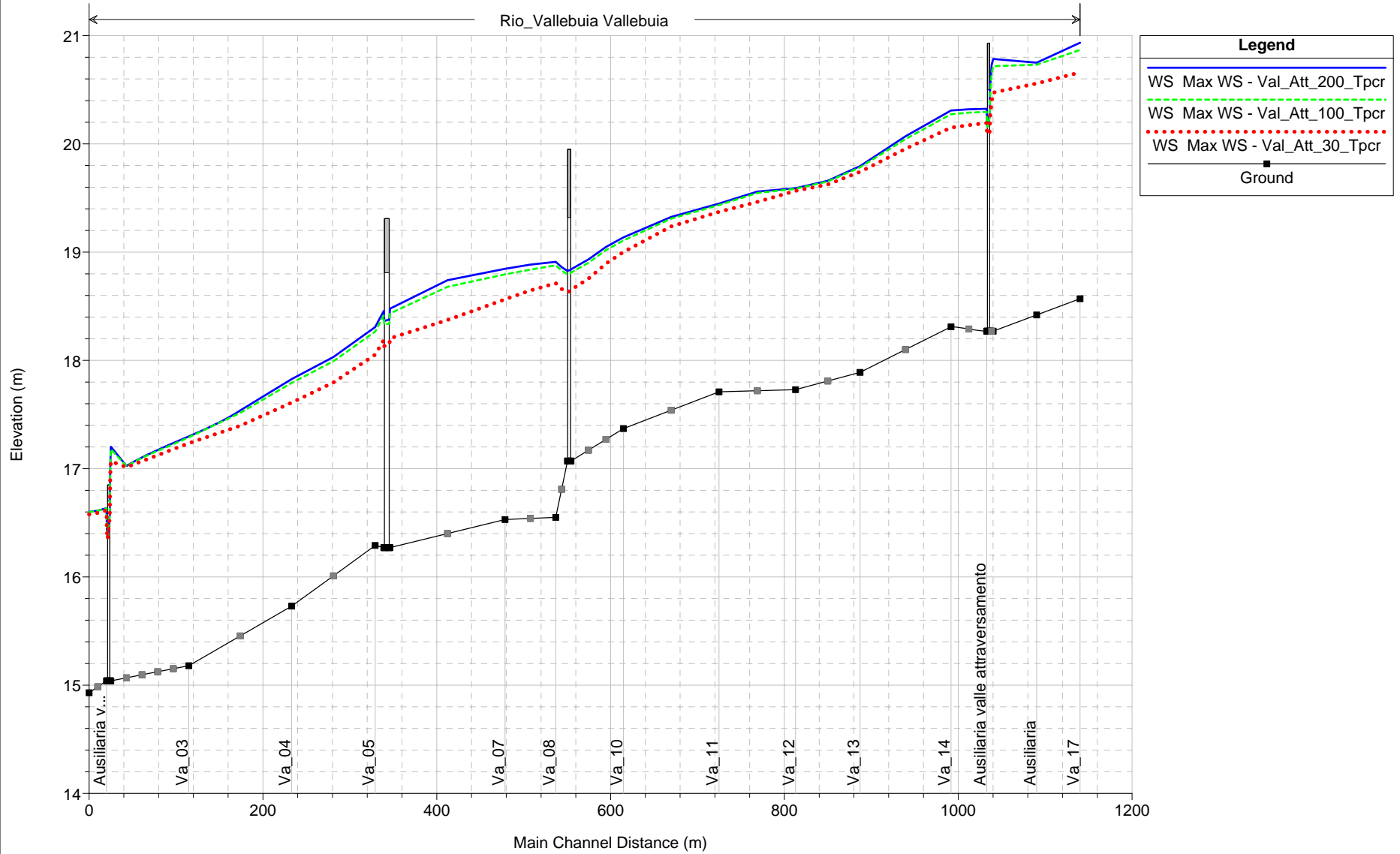
**Tr 200, 100 e 30 anni**

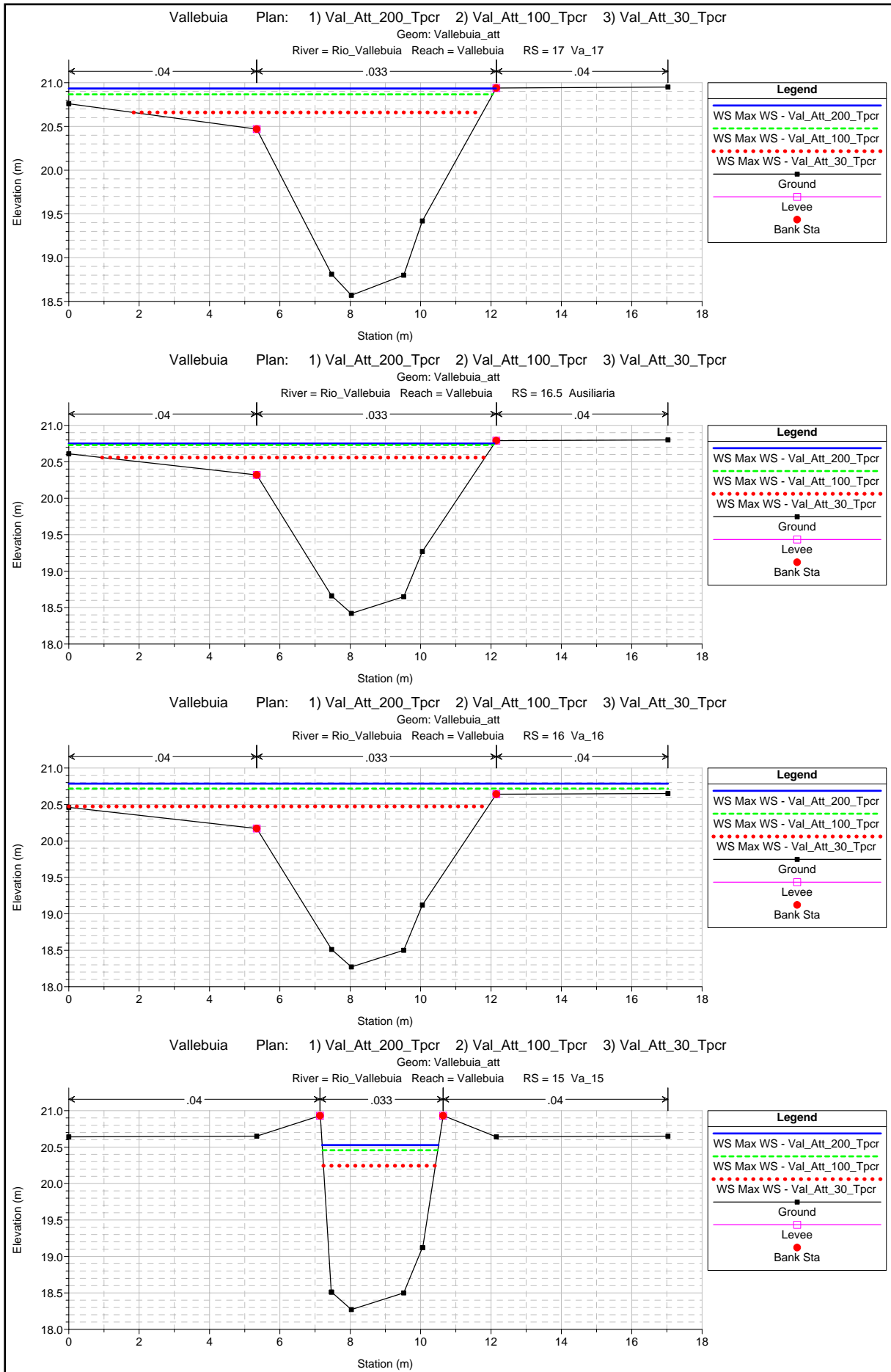
## **RIO DI VALLEBUIA**

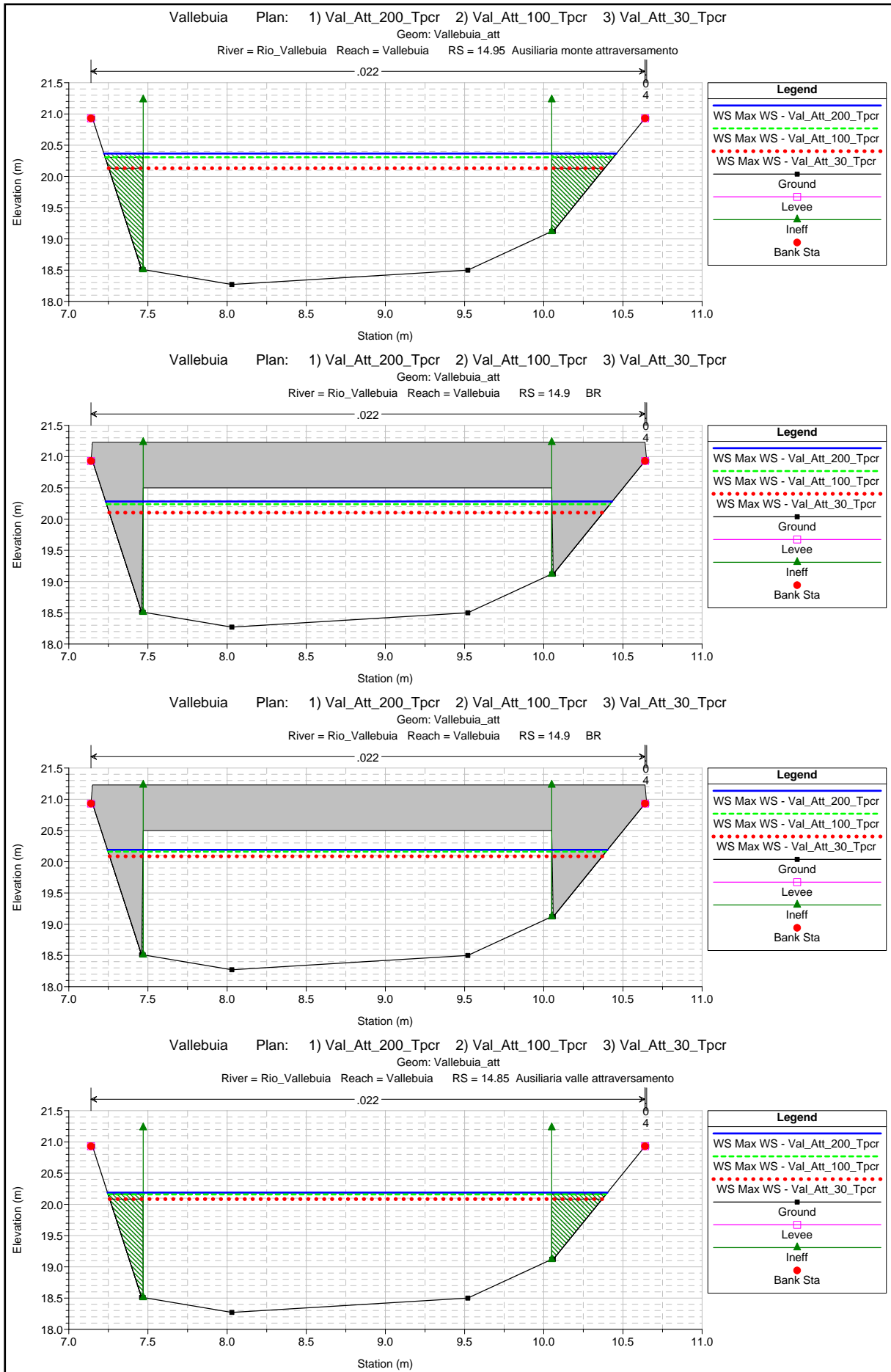
- **Profili**
- **Sezioni**
- **Tabelle di Output**

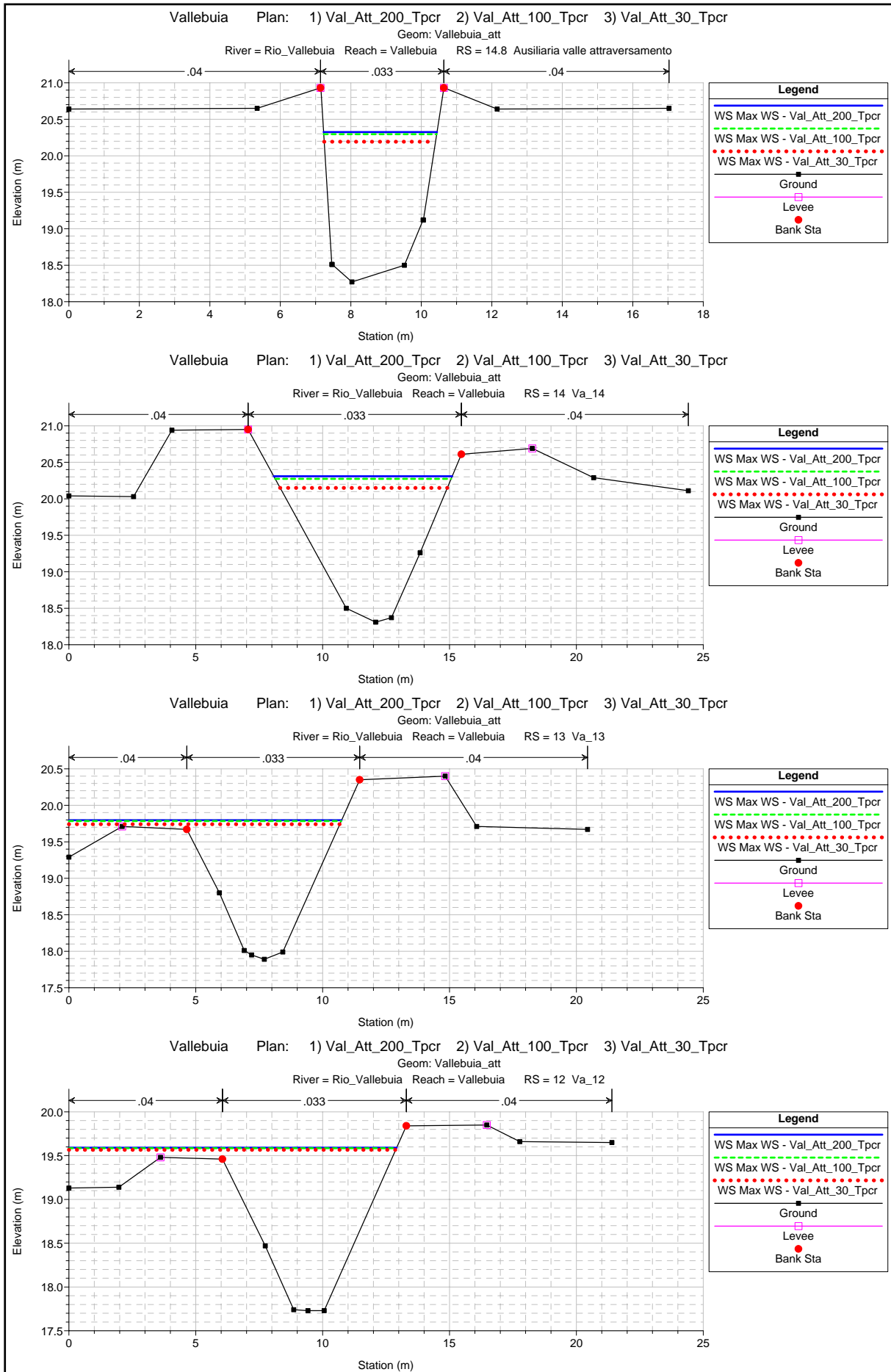


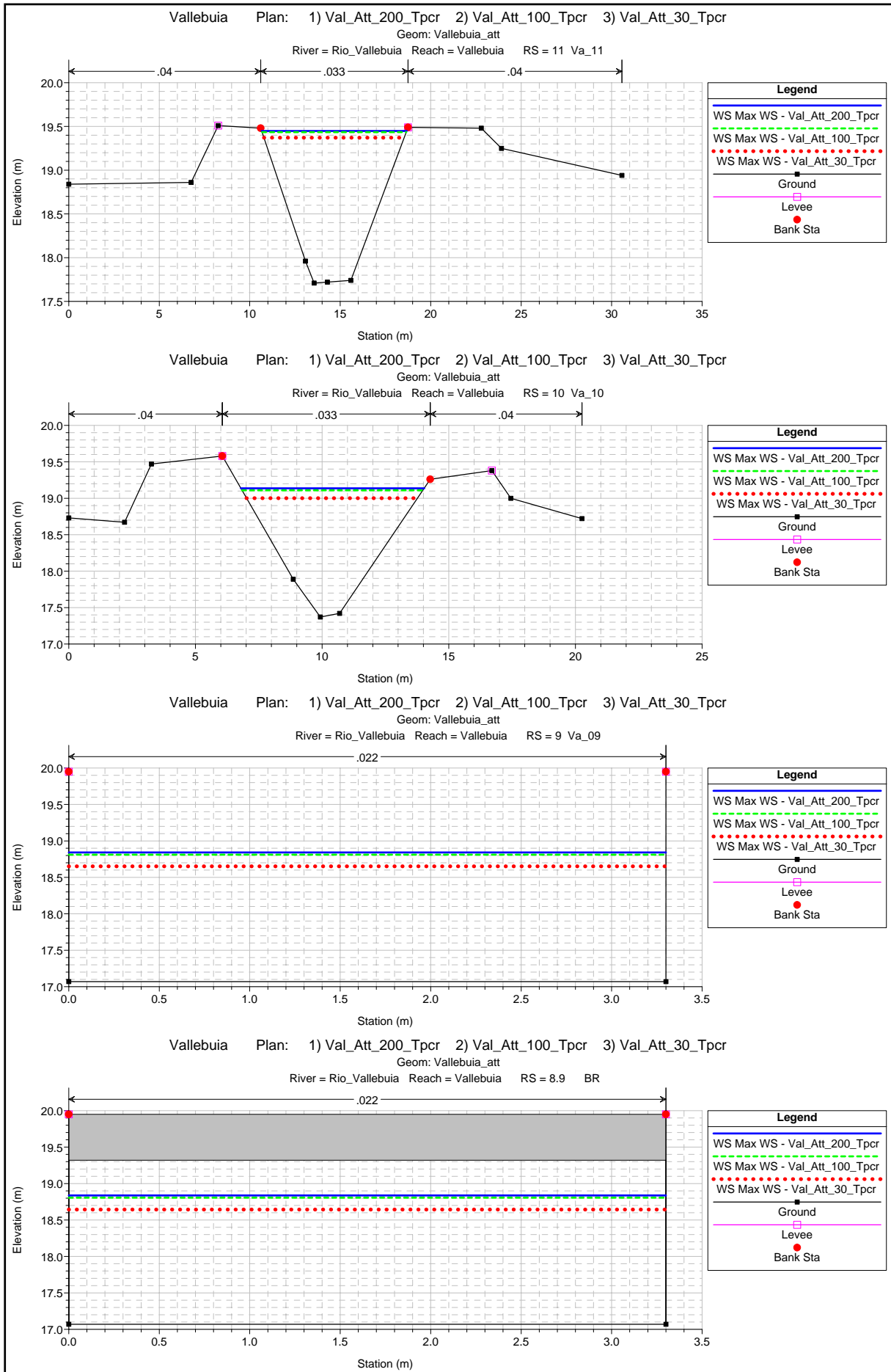
Vallebuia Plan: 1) Val\_Att\_200\_Tpcr 2) Val\_Att\_100\_Tpcr 3) Val\_Att\_30\_Tpcr  
 Geom: Vallebuia\_att

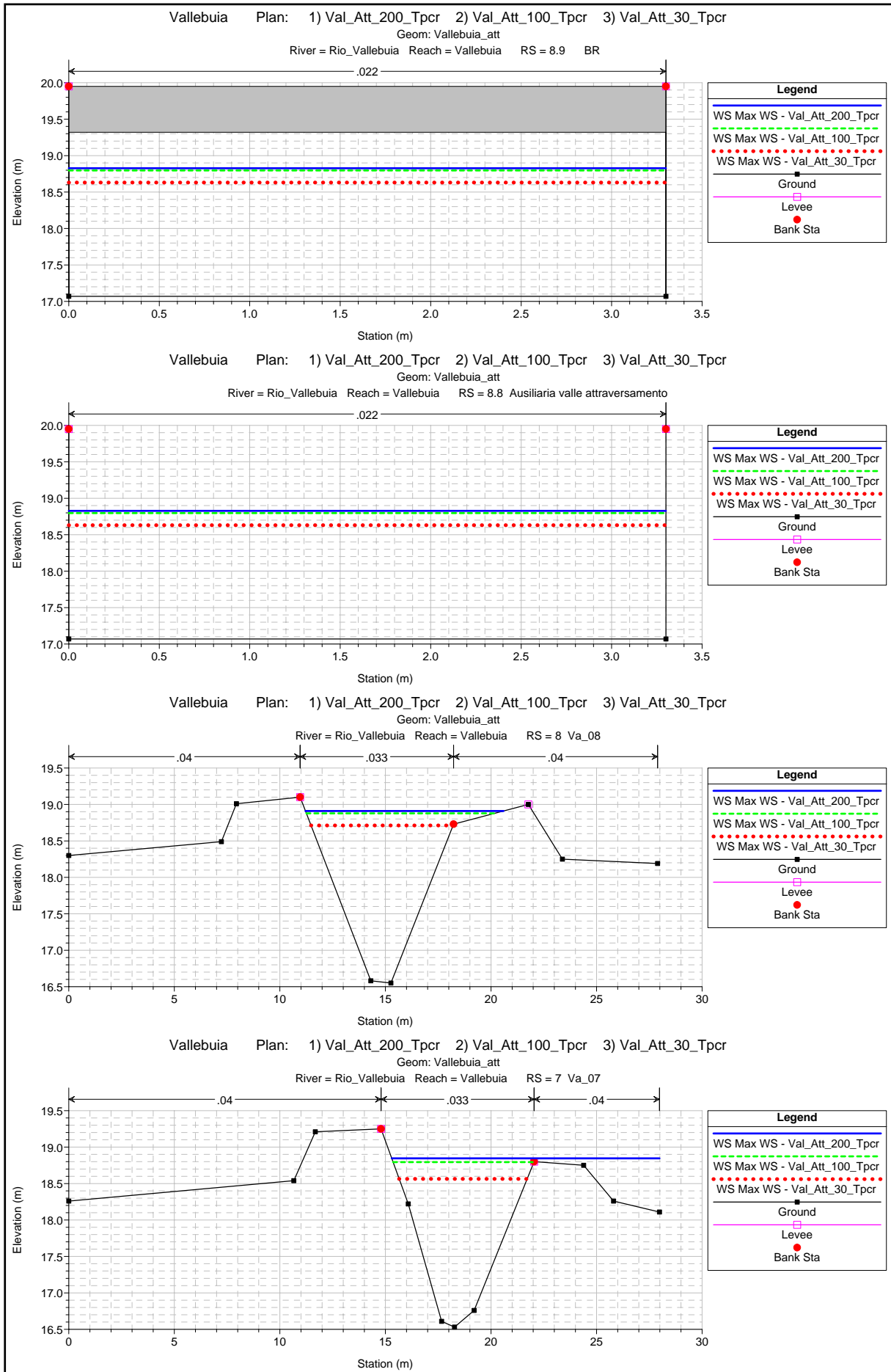


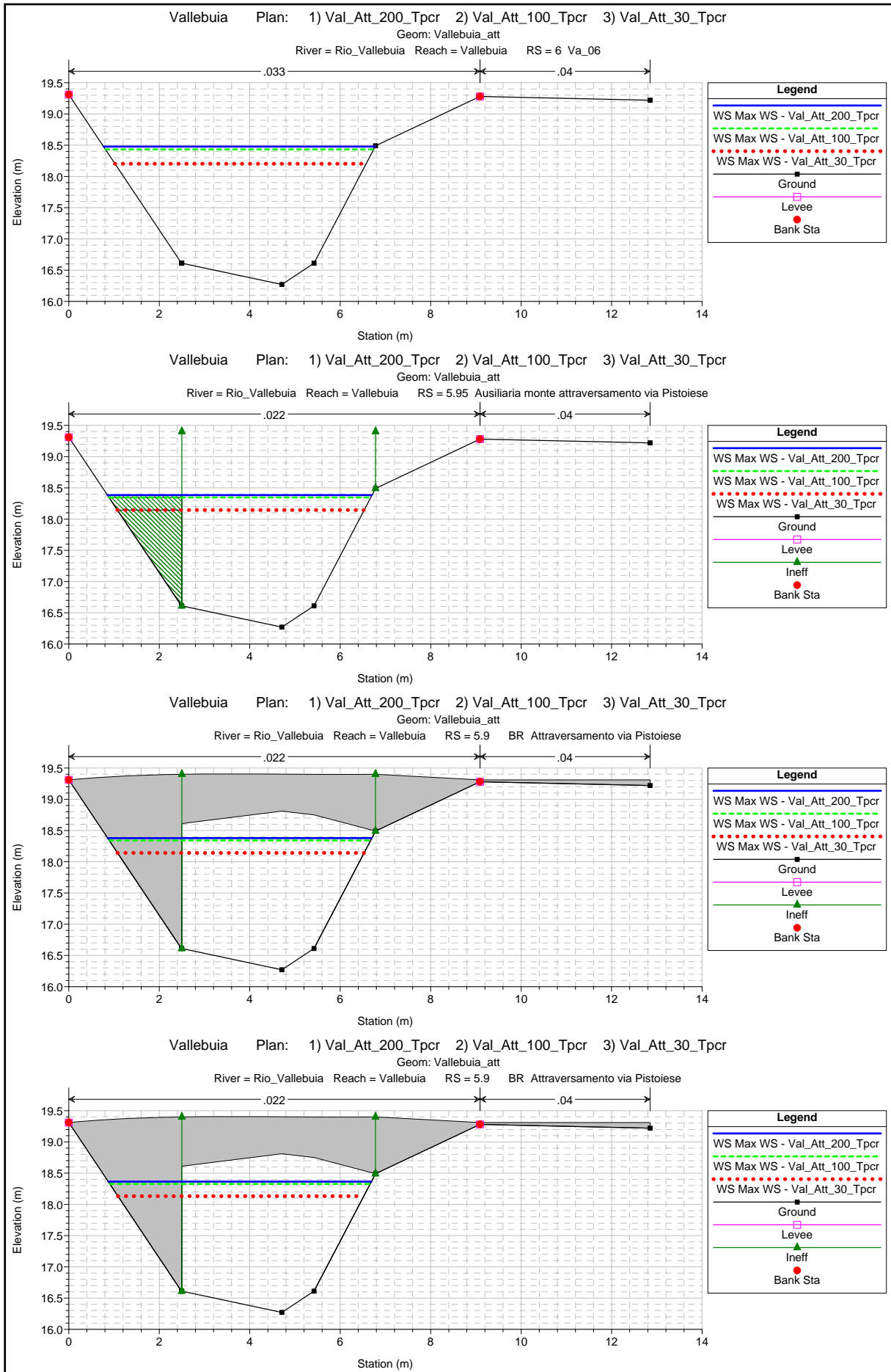


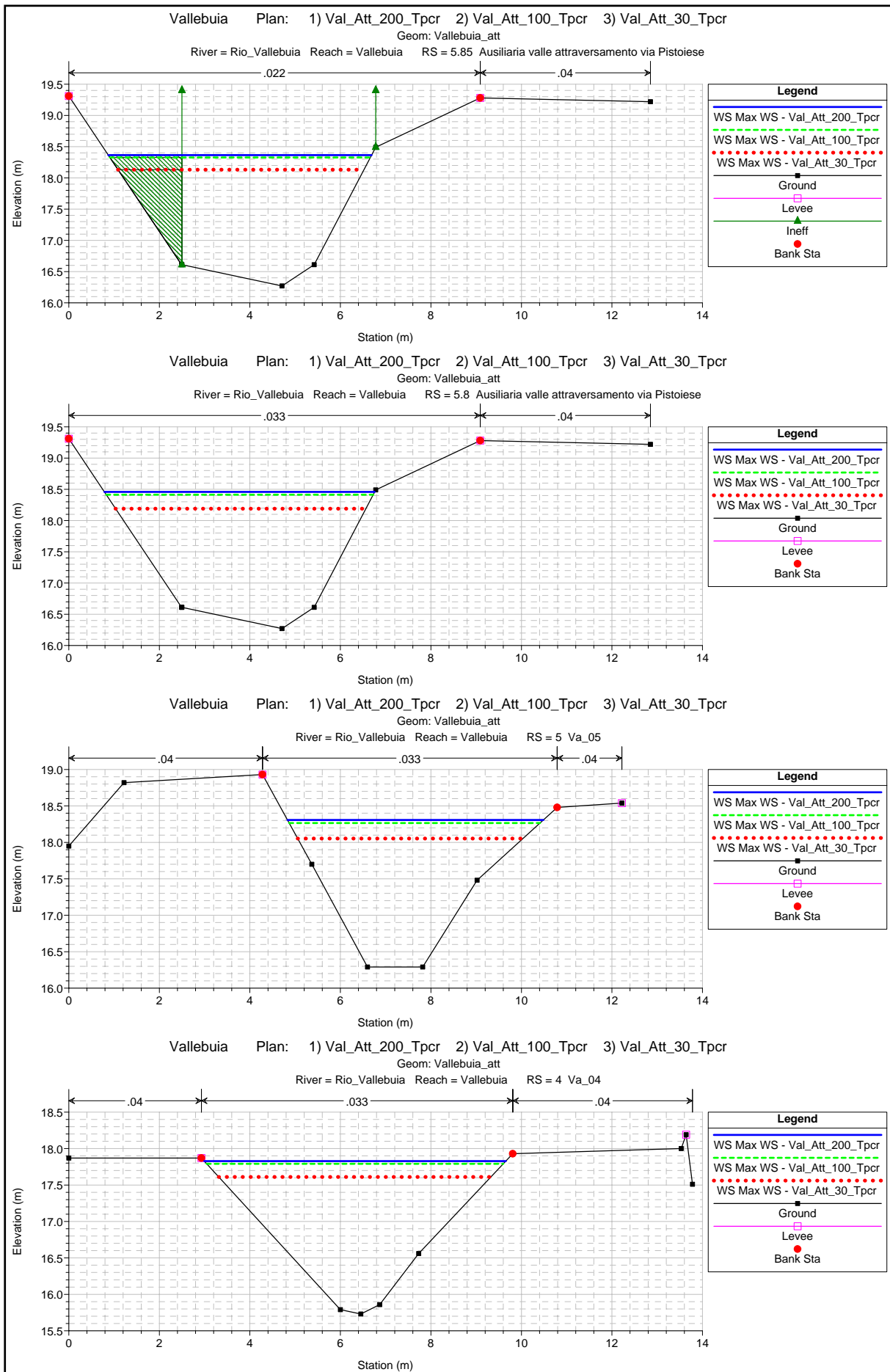




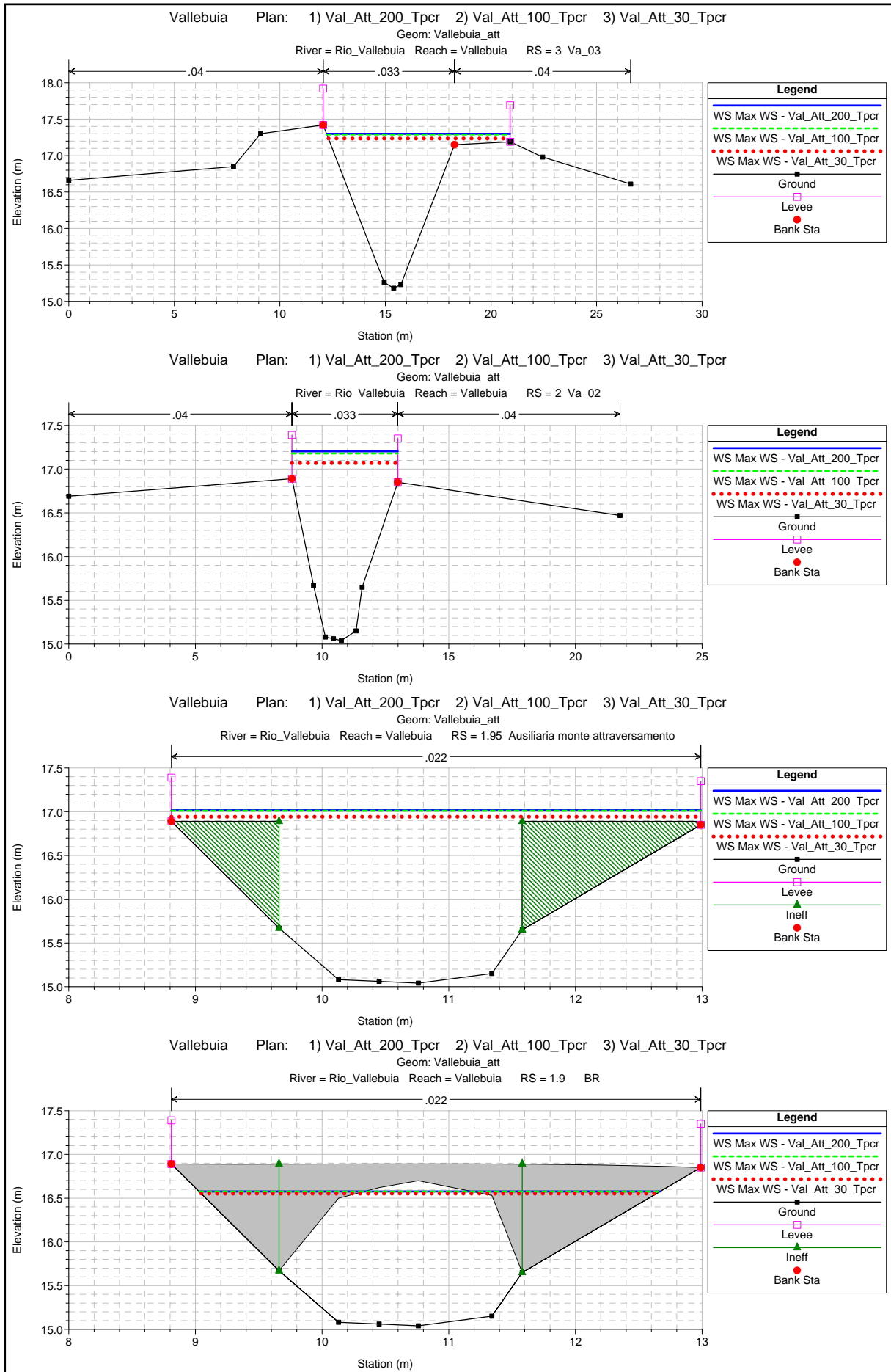


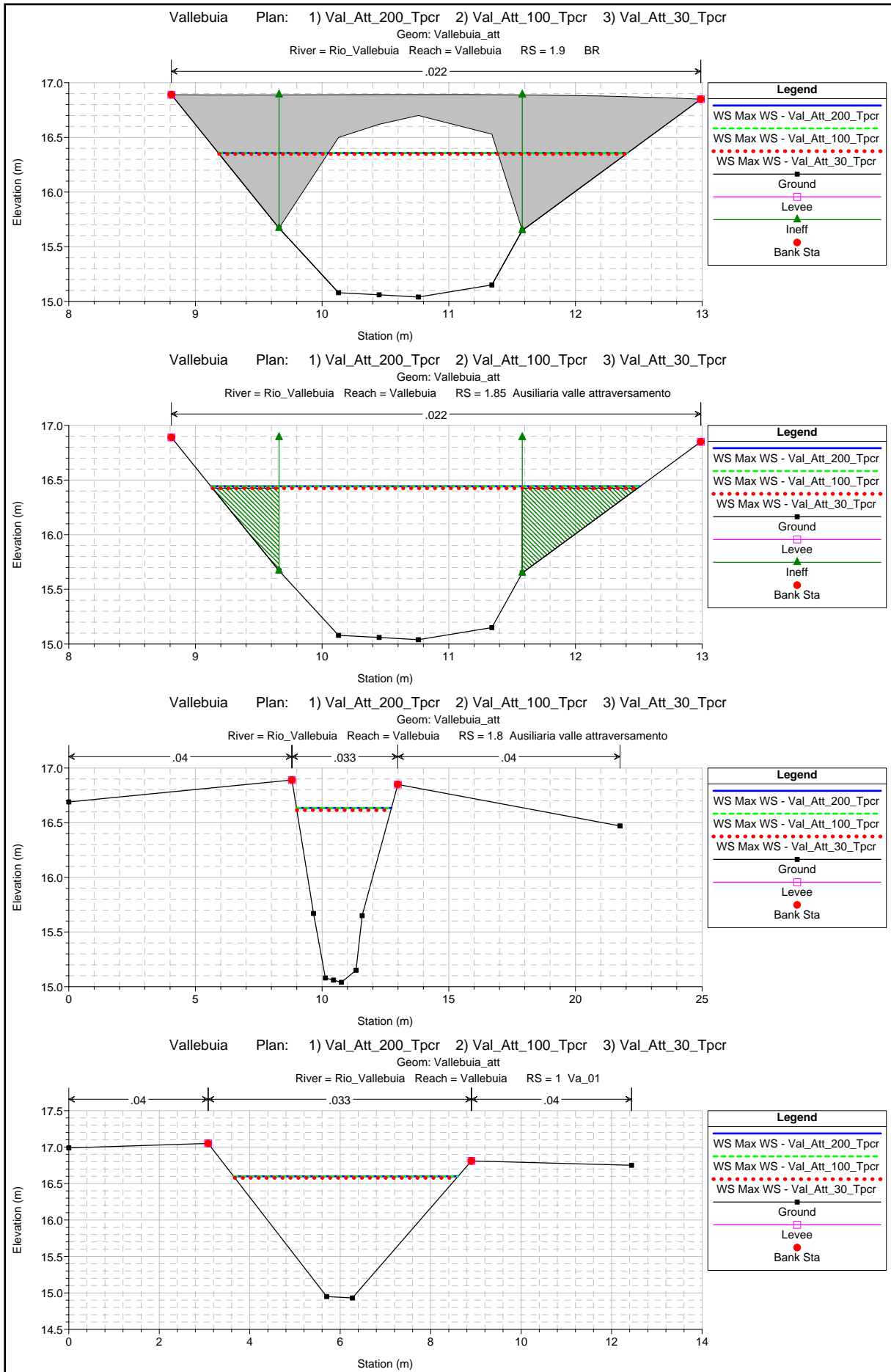












HEC-RAS River: Rio\_Vallebuia Reach: Vallebuia Profile: Max WS

Reach	River Sta	Profile	Plan	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
Vallebuia	17	Max WS	Val_Att_200_Tpcr	20.61	18.57	20.93		21.12	0.003275	1.97	11.62	12.14	0.52
Vallebuia	17	Max WS	Val_Att_100_Tpcr	17.70	18.57	20.87		21.03	0.002852	1.80	10.81	12.05	0.48
Vallebuia	17	Max WS	Val_Att_30_Tpcr	12.46	18.57	20.66		20.78	0.002395	1.53	8.43	9.92	0.43
Vallebuia	16.5	Max WS	Val_Att_200_Tpcr	20.60	18.42	20.75		20.95	0.003556	2.03	11.21	12.10	0.54
Vallebuia	16.5	Max WS	Val_Att_100_Tpcr	17.70	18.42	20.73		20.88	0.002757	1.77	10.97	12.07	0.47
Vallebuia	16.5	Max WS	Val_Att_30_Tpcr	12.46	18.42	20.56		20.67	0.002118	1.46	8.94	10.88	0.41
Vallebuia	16.49			Lat Struct									
Vallebuia	16.48			Lat Struct									
Vallebuia	16	Max WS	Val_Att_200_Tpcr	16.04	18.27	20.79		20.87	0.001316	1.33	14.14	17.03	0.33
Vallebuia	16	Max WS	Val_Att_100_Tpcr	15.10	18.27	20.72		20.80	0.001400	1.33	13.00	17.03	0.34
Vallebuia	16	Max WS	Val_Att_30_Tpcr	12.45	18.27	20.47		20.57	0.001794	1.38	9.69	11.92	0.38
Vallebuia	15	Max WS	Val_Att_200_Tpcr	15.82	18.27	20.53		20.89	0.008777	2.68	5.91	3.31	0.64
Vallebuia	15	Max WS	Val_Att_100_Tpcr	15.04	18.27	20.46		20.81	0.008803	2.65	5.68	3.28	0.64
Vallebuia	15	Max WS	Val_Att_30_Tpcr	12.45	18.27	20.24		20.56	0.008432	2.49	4.99	3.18	0.64
Vallebuia	14.95	Max WS	Val_Att_200_Tpcr	15.82	18.27	20.37	20.04	20.90	0.002572	3.24	4.88	3.24	0.75
Vallebuia	14.95	Max WS	Val_Att_100_Tpcr	15.04	18.27	20.31	19.99	20.82	0.002590	3.18	4.73	3.21	0.75
Vallebuia	14.95	Max WS	Val_Att_30_Tpcr	12.45	18.27	20.13	19.81	20.56	0.002477	2.91	4.28	3.13	0.72
Vallebuia	14.9			Bridge									
Vallebuia	14.85	Max WS	Val_Att_200_Tpcr	15.82	18.27	20.19		20.84	0.003576	3.58	4.42	3.16	0.87
Vallebuia	14.85	Max WS	Val_Att_100_Tpcr	15.04	18.27	20.16		20.77	0.003423	3.46	4.35	3.14	0.85
Vallebuia	14.85	Max WS	Val_Att_30_Tpcr	12.45	18.27	20.09		20.54	0.002724	2.99	4.16	3.11	0.75
Vallebuia	14.8	Max WS	Val_Att_200_Tpcr	15.82	18.27	20.32		20.79	0.011948	3.01	5.25	3.22	0.75
Vallebuia	14.8	Max WS	Val_Att_100_Tpcr	15.04	18.27	20.30		20.73	0.011307	2.92	5.16	3.21	0.73
Vallebuia	14.8	Max WS	Val_Att_30_Tpcr	12.45	18.27	20.19		20.53	0.009190	2.58	4.83	3.16	0.67
Vallebuia	14.79			Lat Struct									
Vallebuia	14.78			Lat Struct									
Vallebuia	14	Max WS	Val_Att_200_Tpcr	15.82	18.31	20.31		20.49	0.003834	1.89	8.36	7.03	0.55
Vallebuia	14	Max WS	Val_Att_100_Tpcr	15.04	18.31	20.27		20.45	0.003747	1.85	8.12	6.94	0.55

HEC-RAS River: Rio\_Vallebuia Reach: Vallebuia Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Vallebuia	14	Max WS	Val_Att_30_Tpcr	12.45	18.31	20.15		20.30	0.003442	1.71	7.28	6.59	0.52
Vallebuia	13	Max WS	Val_Att_200_Tpcr	15.58	17.89	19.80		20.03	0.005351	2.16	7.88	10.75	0.64
Vallebuia	13	Max WS	Val_Att_100_Tpcr	14.87	17.89	19.78		20.00	0.005045	2.08	7.76	10.73	0.62
Vallebuia	13	Max WS	Val_Att_30_Tpcr	12.41	17.89	19.74		19.91	0.004015	1.82	7.30	10.68	0.55
Vallebuia	12	Max WS	Val_Att_200_Tpcr	13.66	17.73	19.59		19.72	0.003203	1.67	9.27	12.92	0.51
Vallebuia	12	Max WS	Val_Att_100_Tpcr	13.23	17.73	19.59		19.71	0.003059	1.63	9.19	12.91	0.50
Vallebuia	12	Max WS	Val_Att_30_Tpcr	11.60	17.73	19.57		19.67	0.002511	1.46	8.94	12.88	0.45
Vallebuia	11	Max WS	Val_Att_200_Tpcr	12.02	17.71	19.45		19.55	0.002144	1.38	8.71	8.01	0.42
Vallebuia	11	Max WS	Val_Att_100_Tpcr	11.87	17.71	19.44		19.53	0.002162	1.38	8.60	7.97	0.42
Vallebuia	11	Max WS	Val_Att_30_Tpcr	11.04	17.71	19.37		19.47	0.002198	1.36	8.11	7.75	0.43
Vallebuia	10	Max WS	Val_Att_200_Tpcr	11.34	17.37	19.14		19.27	0.003334	1.60	7.09	7.24	0.52
Vallebuia	10	Max WS	Val_Att_100_Tpcr	11.37	17.37	19.11		19.25	0.003626	1.65	6.89	7.13	0.54
Vallebuia	10	Max WS	Val_Att_30_Tpcr	10.64	17.37	19.00		19.15	0.004303	1.73	6.15	6.75	0.58
Vallebuia	9	Max WS	Val_Att_200_Tpcr	11.19	17.07	18.84	18.12	19.03	0.002190	1.92	5.85	3.30	0.46
Vallebuia	9	Max WS	Val_Att_100_Tpcr	11.01	17.07	18.81	18.11	19.00	0.002215	1.92	5.75	3.30	0.46
Vallebuia	9	Max WS	Val_Att_30_Tpcr	10.54	17.07	18.65	18.08	18.86	0.002624	2.02	5.22	3.30	0.51
Vallebuia	8.9			Bridge									
Vallebuia	8.8	Max WS	Val_Att_200_Tpcr	11.16	17.07	18.83		19.02	0.002227	1.93	5.80	3.30	0.46
Vallebuia	8.8	Max WS	Val_Att_100_Tpcr	10.96	17.07	18.80		18.98	0.002250	1.92	5.70	3.30	0.47
Vallebuia	8.8	Max WS	Val_Att_30_Tpcr	10.54	17.07	18.63		18.84	0.002721	2.05	5.15	3.30	0.52
Vallebuia	8.79			Lat Struct									
Vallebuia	8.78			Lat Struct									
Vallebuia	8	Max WS	Val_Att_200_Tpcr	11.24	16.55	18.91		18.98	0.001258	1.17	9.83	9.39	0.32
Vallebuia	8	Max WS	Val_Att_100_Tpcr	11.03	16.55	18.88		18.95	0.001305	1.17	9.53	8.92	0.32
Vallebuia	8	Max WS	Val_Att_30_Tpcr	10.54	16.55	18.71		18.80	0.001748	1.28	8.25	6.73	0.37
Vallebuia	7	Max WS	Val_Att_200_Tpcr	11.18	16.53	18.85		18.91	0.001306	1.15	11.05	12.68	0.32
Vallebuia	7	Max WS	Val_Att_100_Tpcr	11.00	16.53	18.79		18.88	0.001667	1.28	8.62	6.67	0.36
Vallebuia	7	Max WS	Val_Att_30_Tpcr	10.53	16.53	18.56		18.67	0.002501	1.47	7.15	6.06	0.43

HEC-RAS River: Rio\_Vallebuia Reach: Vallebuia Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Vallebuia	6	Max WS	Val_Att_200_Tpcr	14.60	16.27	18.48		18.62	0.002547	1.65	8.84	6.00	0.43
Vallebuia	6	Max WS	Val_Att_100_Tpcr	13.87	16.27	18.43		18.57	0.002500	1.62	8.57	5.93	0.43
Vallebuia	6	Max WS	Val_Att_30_Tpcr	10.53	16.27	18.20		18.31	0.002255	1.45	7.26	5.55	0.41
Vallebuia	5.95	Max WS	Val_Att_200_Tpcr	14.60	16.27	18.38	17.76	18.62	0.001554	2.14	6.81	5.85	0.54
Vallebuia	5.95	Max WS	Val_Att_100_Tpcr	13.87	16.27	18.35	17.72	18.57	0.001501	2.08	6.65	5.79	0.53
Vallebuia	5.95	Max WS	Val_Att_30_Tpcr	10.53	16.27	18.14	17.51	18.31	0.001258	1.81	5.83	5.46	0.48
Vallebuia	5.9			Bridge									
Vallebuia	5.85	Max WS	Val_Att_200_Tpcr	14.60	16.27	18.36		18.60	0.001609	2.17	6.73	5.82	0.55
Vallebuia	5.85	Max WS	Val_Att_100_Tpcr	13.87	16.27	18.33		18.55	0.001552	2.11	6.58	5.75	0.54
Vallebuia	5.85	Max WS	Val_Att_30_Tpcr	10.53	16.27	18.13		18.30	0.001290	1.82	5.78	5.43	0.49
Vallebuia	5.8	Max WS	Val_Att_200_Tpcr	14.60	16.27	18.46		18.60	0.002642	1.67	8.72	5.97	0.44
Vallebuia	5.8	Max WS	Val_Att_100_Tpcr	13.87	16.27	18.41		18.55	0.002589	1.64	8.46	5.90	0.44
Vallebuia	5.8	Max WS	Val_Att_30_Tpcr	10.53	16.27	18.19		18.30	0.002322	1.47	7.18	5.53	0.41
Vallebuia	5	Max WS	Val_Att_200_Tpcr	14.60	16.29	18.31		18.56	0.006217	2.23	6.55	5.65	0.66
Vallebuia	5	Max WS	Val_Att_100_Tpcr	13.87	16.29	18.27		18.51	0.006172	2.20	6.32	5.54	0.66
Vallebuia	5	Max WS	Val_Att_30_Tpcr	10.53	16.29	18.05		18.26	0.005913	2.02	5.20	4.98	0.63
Vallebuia	4.99			Lat Struct									
Vallebuia	4.98			Lat Struct									
Vallebuia	4	Max WS	Val_Att_200_Tpcr	14.60	15.73	17.83		18.02	0.004532	1.96	7.46	6.66	0.59
Vallebuia	4	Max WS	Val_Att_100_Tpcr	13.87	15.73	17.79		17.98	0.004461	1.92	7.22	6.55	0.58
Vallebuia	4	Max WS	Val_Att_30_Tpcr	10.52	15.73	17.61		17.76	0.004052	1.73	6.08	6.01	0.55
Vallebuia	3	Max WS	Val_Att_200_Tpcr	14.21	15.18	17.30		17.49	0.004213	1.94	7.59	8.70	0.57
Vallebuia	3	Max WS	Val_Att_100_Tpcr	13.57	15.18	17.29		17.47	0.003951	1.87	7.50	8.68	0.55
Vallebuia	3	Max WS	Val_Att_30_Tpcr	10.49	15.18	17.23		17.35	0.002743	1.52	7.03	8.61	0.45
Vallebuia	2	Max WS	Val_Att_200_Tpcr	7.31	15.04	17.20		17.28	0.001821	1.22	5.99	4.18	0.33
Vallebuia	2	Max WS	Val_Att_100_Tpcr	7.30	15.04	17.18		17.26	0.001897	1.24	5.90	4.18	0.33
Vallebuia	2	Max WS	Val_Att_30_Tpcr	7.09	15.04	17.07		17.16	0.002243	1.30	5.43	4.18	0.37
Vallebuia	1.95	Max WS	Val_Att_200_Tpcr	7.31	15.04	17.02	16.33	17.21	0.003440	1.93	3.79	4.18	0.65
Vallebuia	1.95	Max WS	Val_Att_100_Tpcr	7.30	15.04	17.01	16.33	17.20	0.003478	1.93	3.77	4.18	0.65

HEC-RAS River: Rio\_Vallebuia Reach: Vallebuia Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Vallebuia	1.95	Max WS	Val_Att_30_Tpcr	7.09	15.04	16.94	16.31	17.15	0.004147	2.03	3.48	4.18	0.71
Vallebuia	1.9			Bridge									
Vallebuia	1.85	Max WS	Val_Att_200_Tpcr	7.31	15.04	16.44		16.91	0.004792	3.04	2.40	3.39	0.87
Vallebuia	1.85	Max WS	Val_Att_100_Tpcr	7.30	15.04	16.44		16.91	0.004789	3.04	2.40	3.39	0.87
Vallebuia	1.85	Max WS	Val_Att_30_Tpcr	7.09	15.04	16.43		16.88	0.004715	2.99	2.37	3.36	0.86
Vallebuia	1.8	Max WS	Val_Att_200_Tpcr	7.31	15.04	16.64		16.84	0.006939	1.99	3.67	3.75	0.64
Vallebuia	1.8	Max WS	Val_Att_100_Tpcr	7.30	15.04	16.63		16.84	0.006935	1.99	3.66	3.75	0.64
Vallebuia	1.8	Max WS	Val_Att_30_Tpcr	7.09	15.04	16.61		16.81	0.006878	1.97	3.59	3.71	0.64
Vallebuia	1	Max WS	Val_Att_200_Tpcr	7.31	14.93	16.60	16.18	16.73	0.004011	1.59	4.59	4.96	0.53
Vallebuia	1	Max WS	Val_Att_100_Tpcr	7.30	14.93	16.60	16.18	16.73	0.004014	1.59	4.59	4.96	0.53
Vallebuia	1	Max WS	Val_Att_30_Tpcr	7.09	14.93	16.58	16.17	16.70	0.004011	1.58	4.49	4.91	0.53

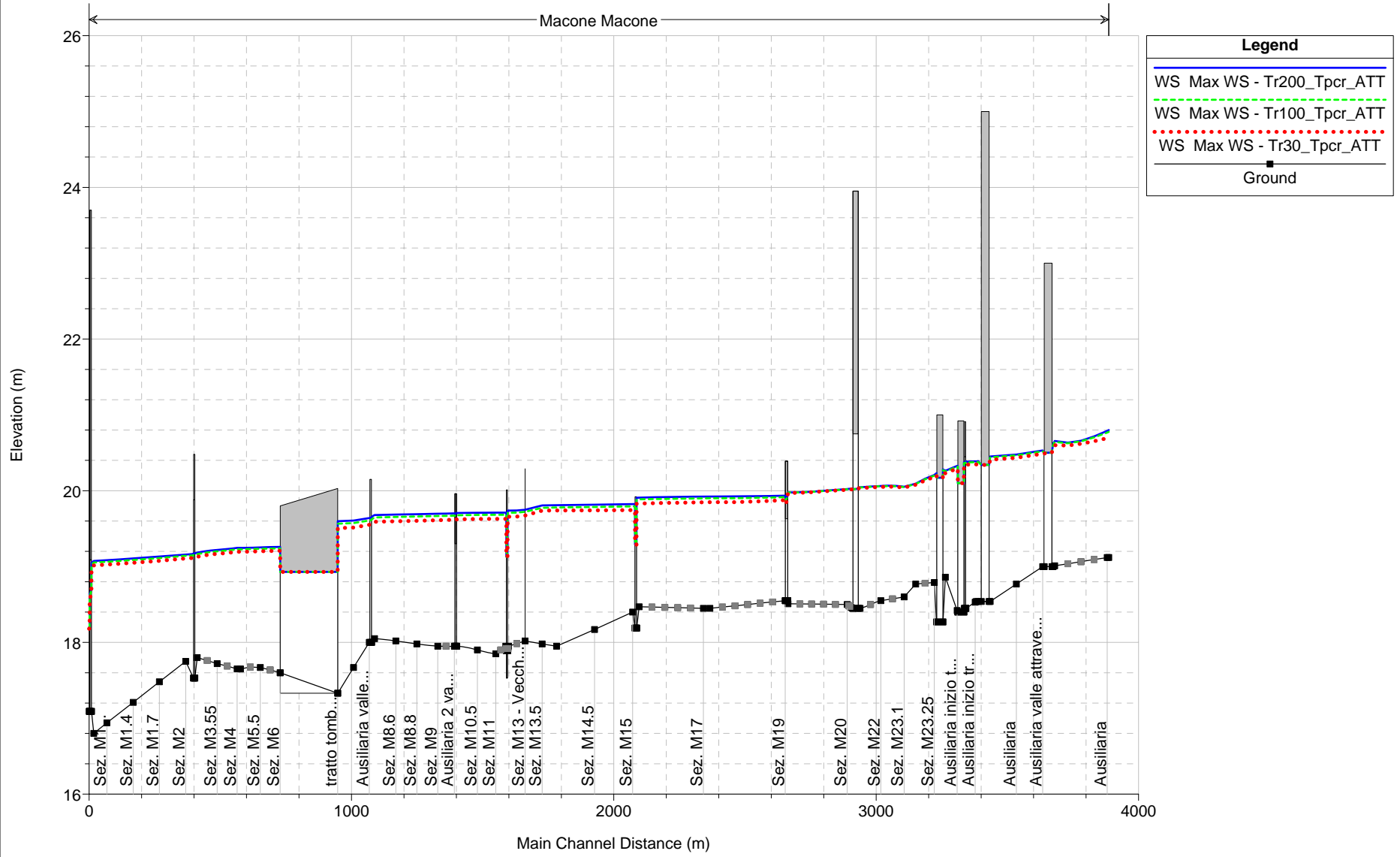
# **Scenario A3**

**Tr 200, 100 e 30 anni**

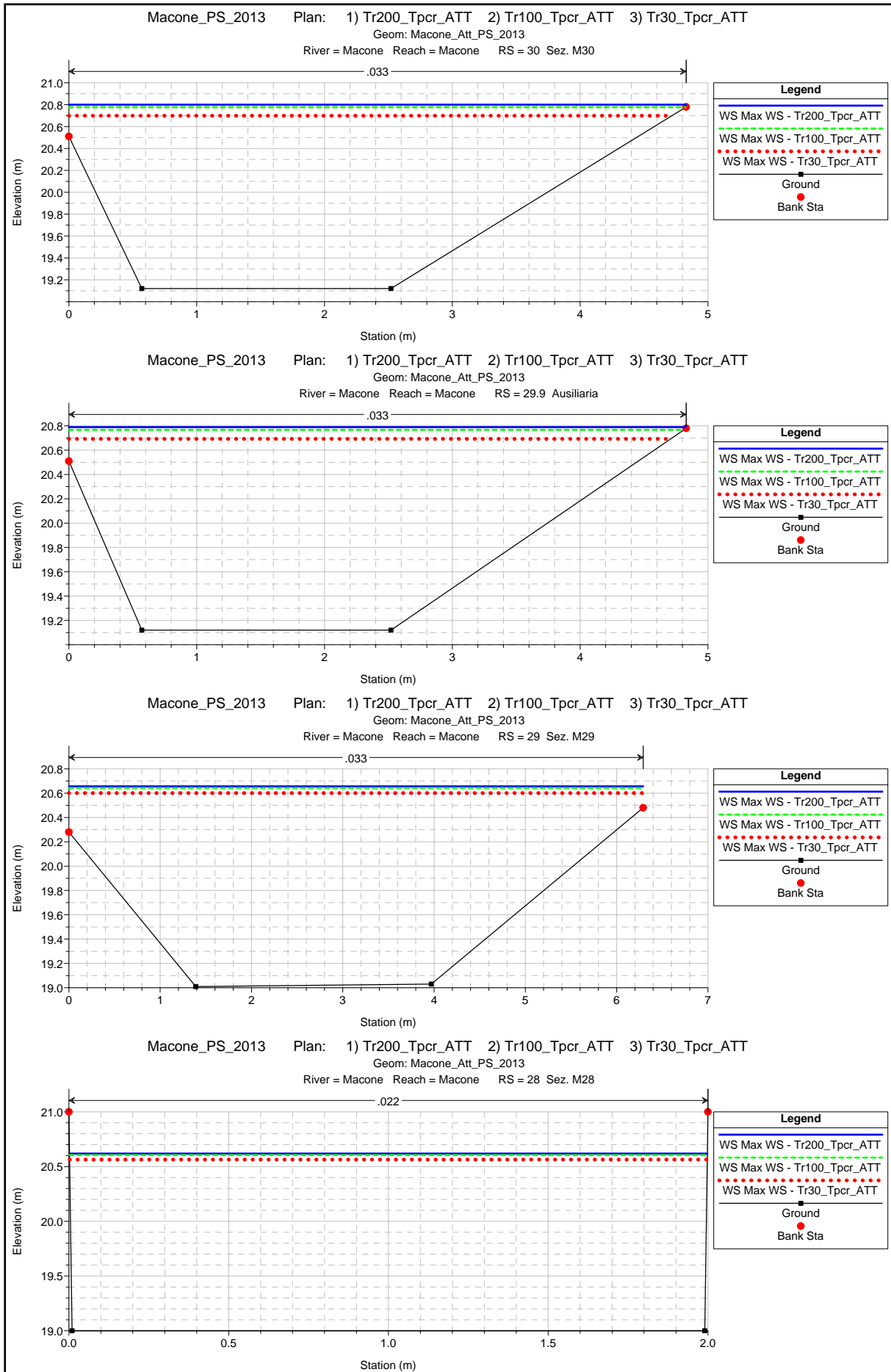
## **RIO MACONE**

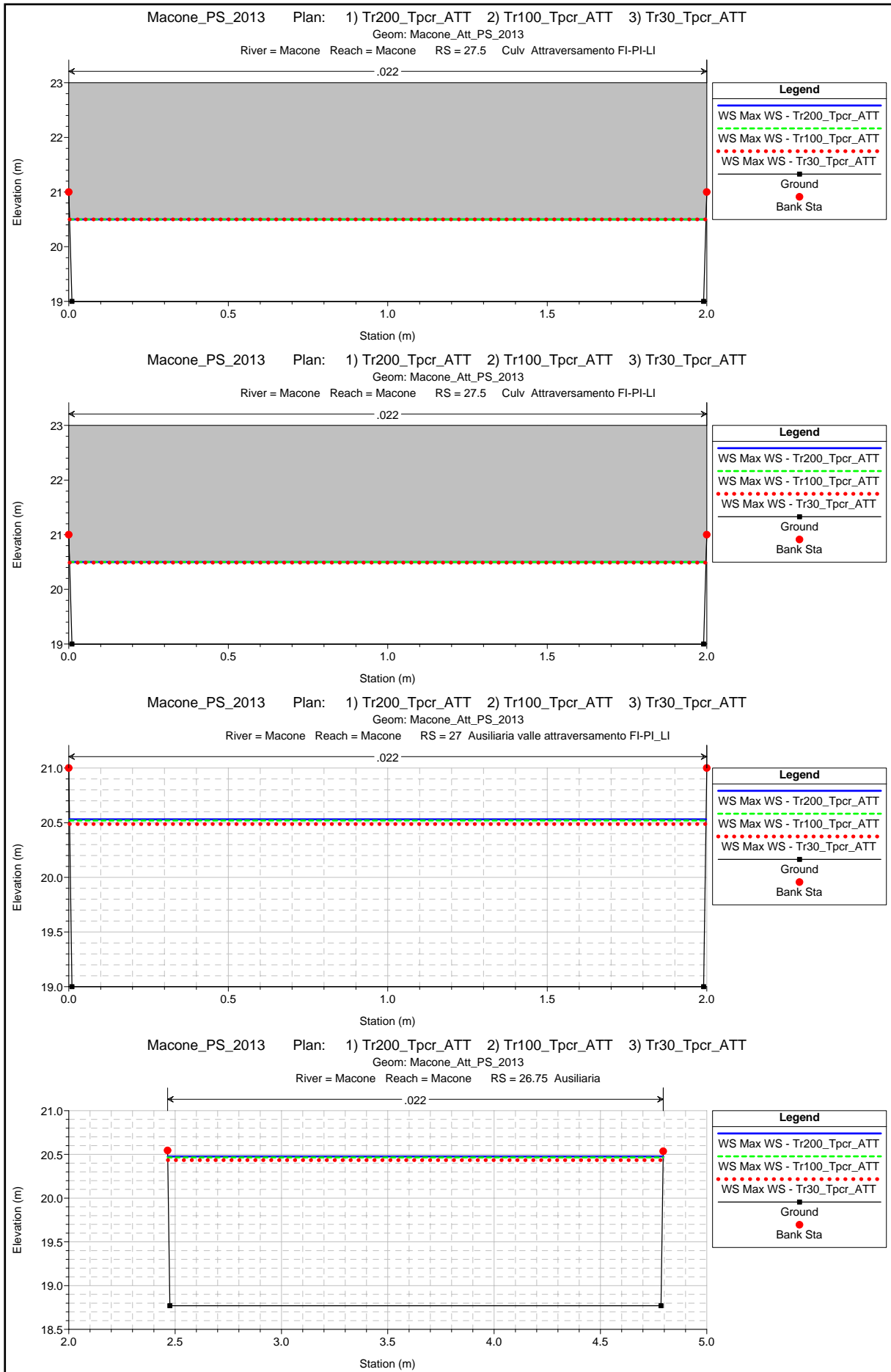
- **Profili**
- **Sezioni**
- **Tabelle di Output**

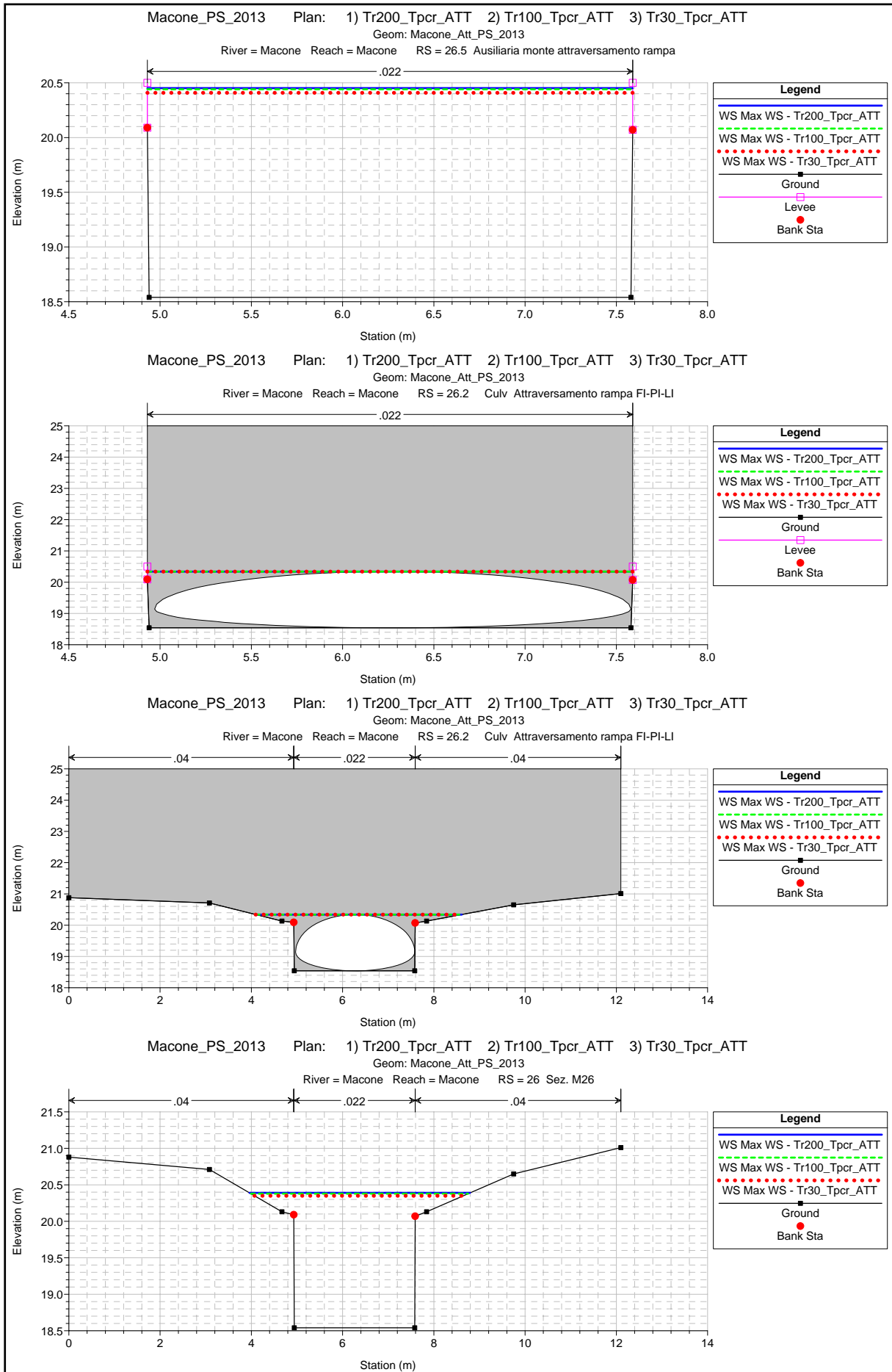
Macone\_PS\_2013 Plan: 1) Tr200\_Tpcr\_ATT 2) Tr100\_Tpcr\_ATT 3) Tr30\_Tpcr\_ATT  
 Geom: Macone\_Att\_PS\_2013

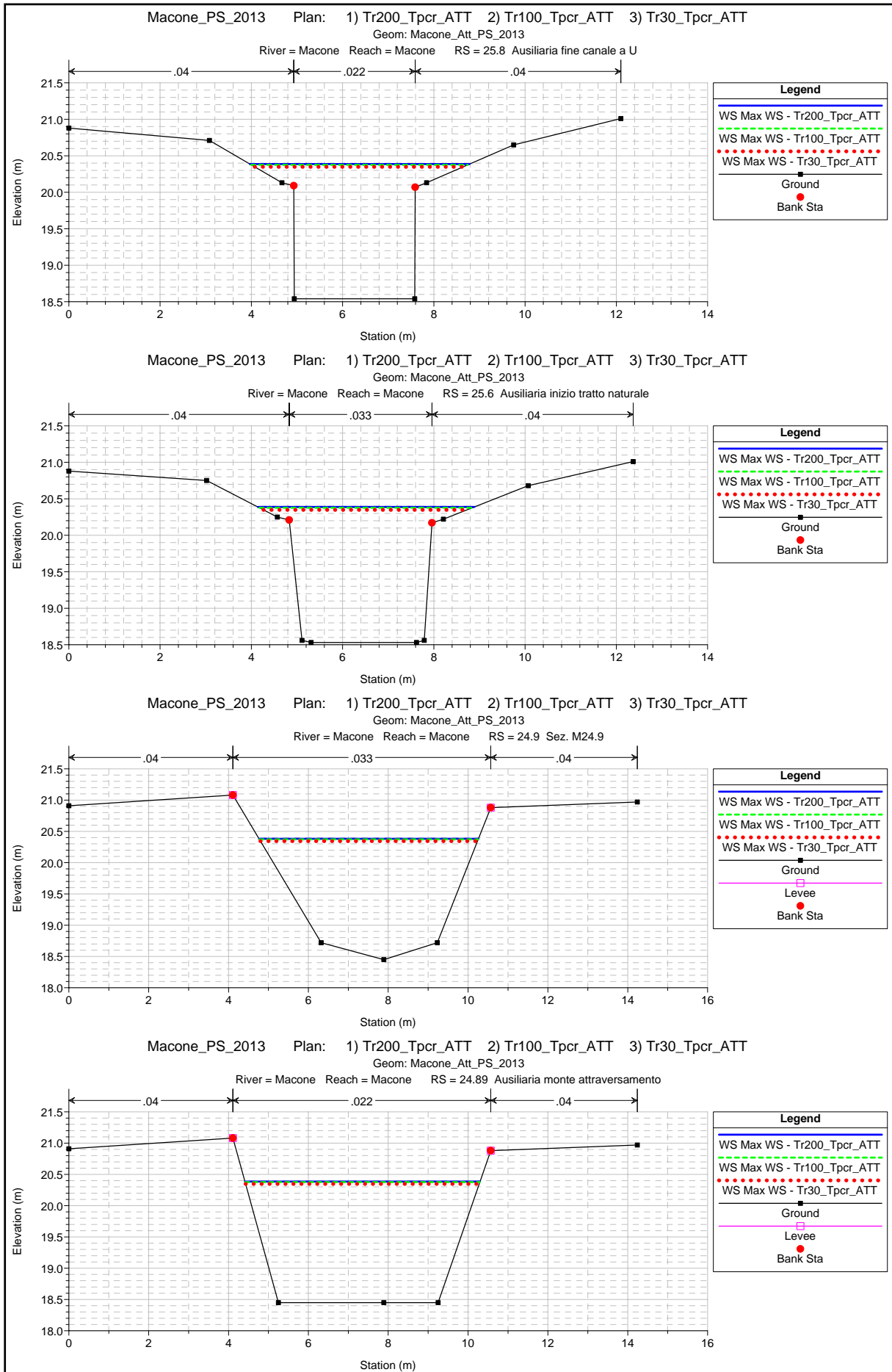


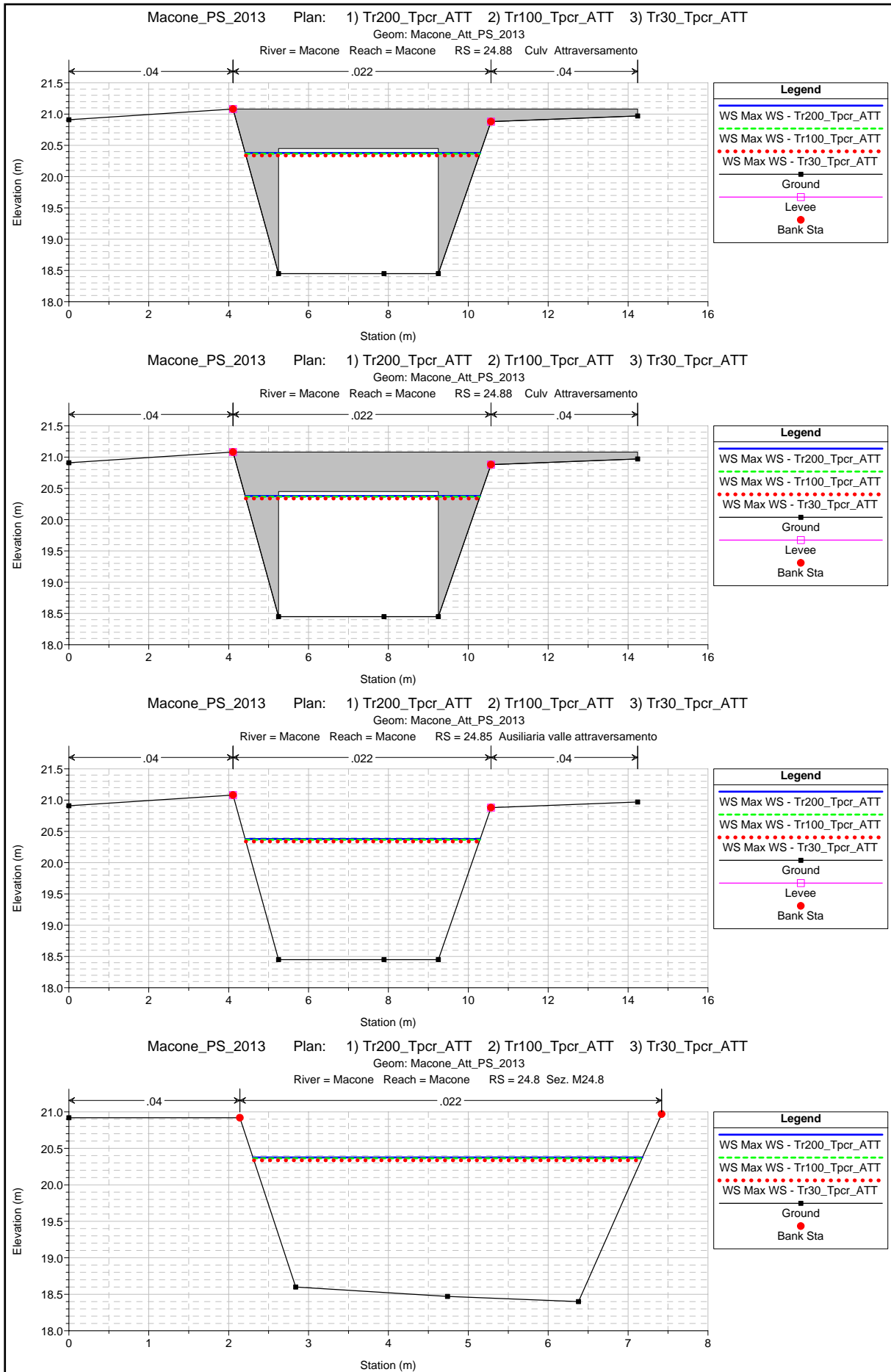


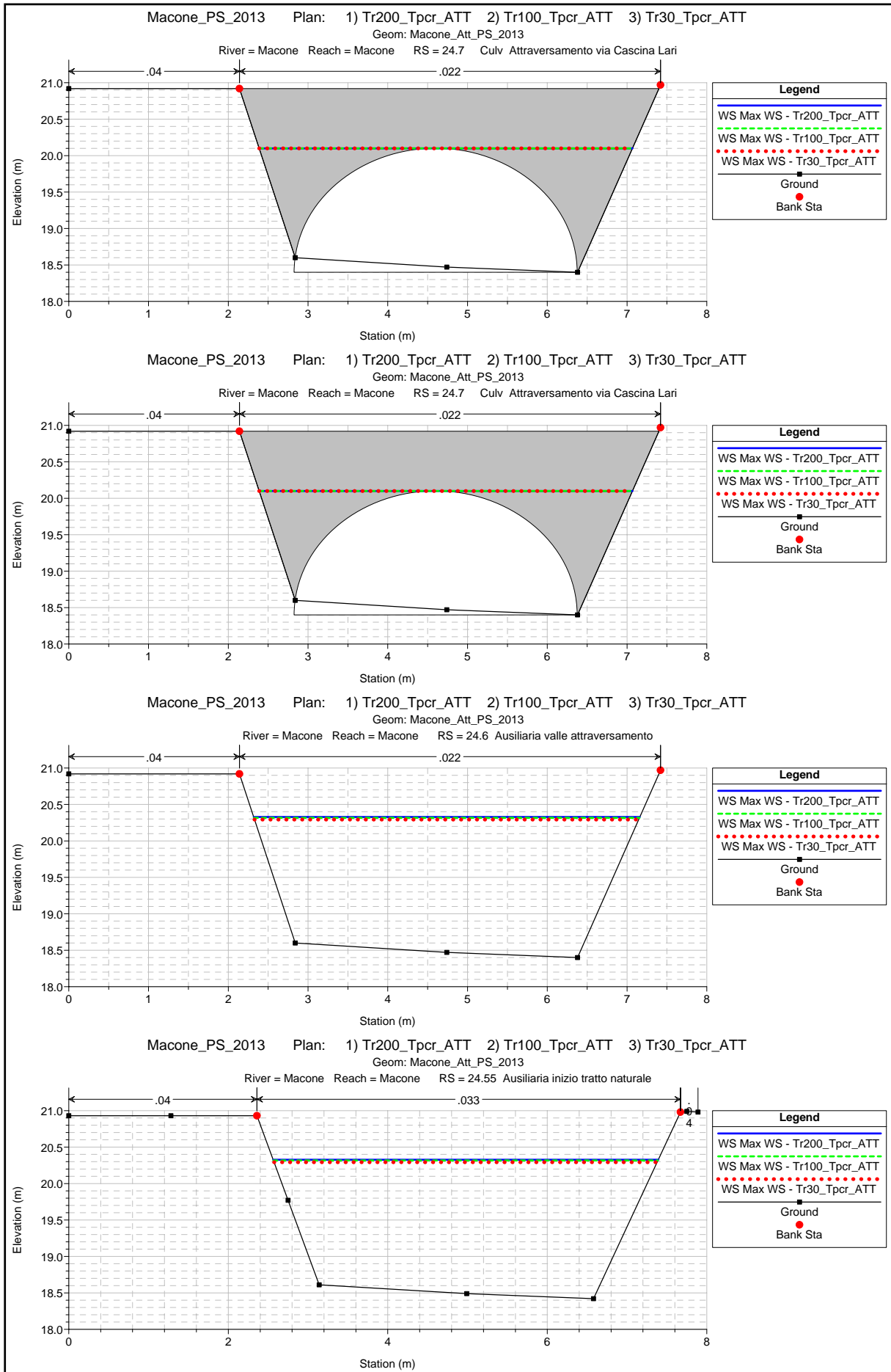


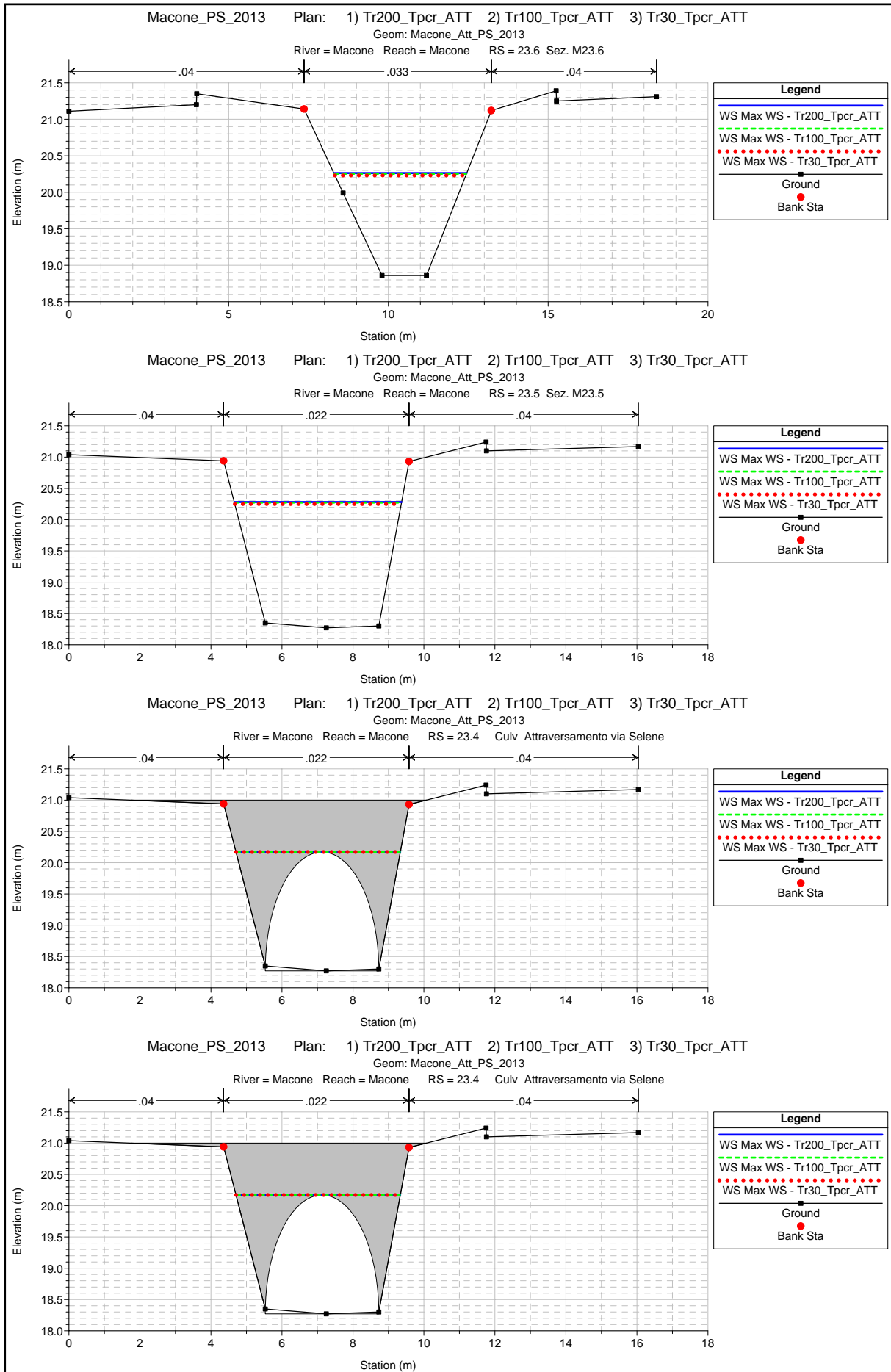


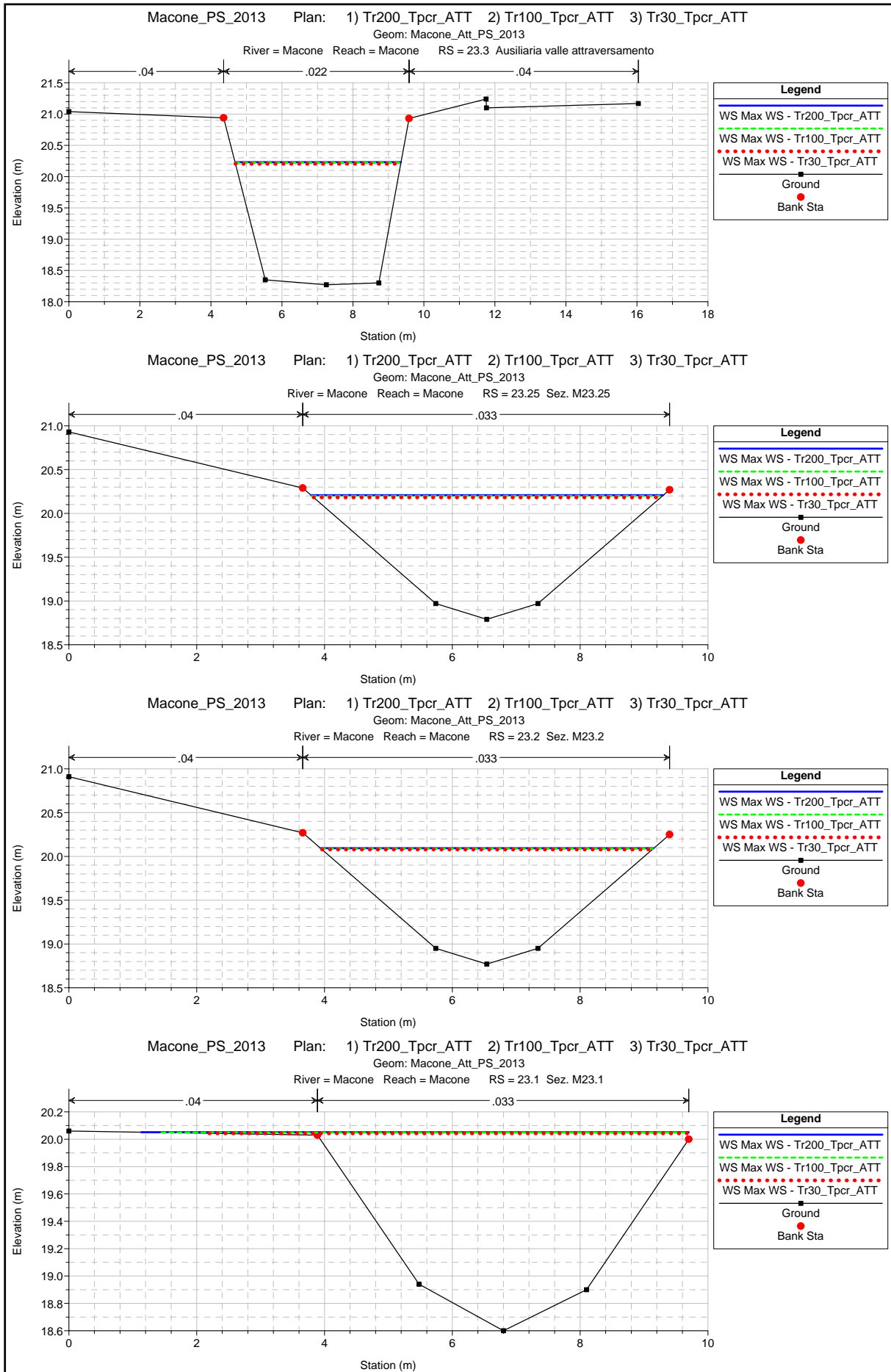




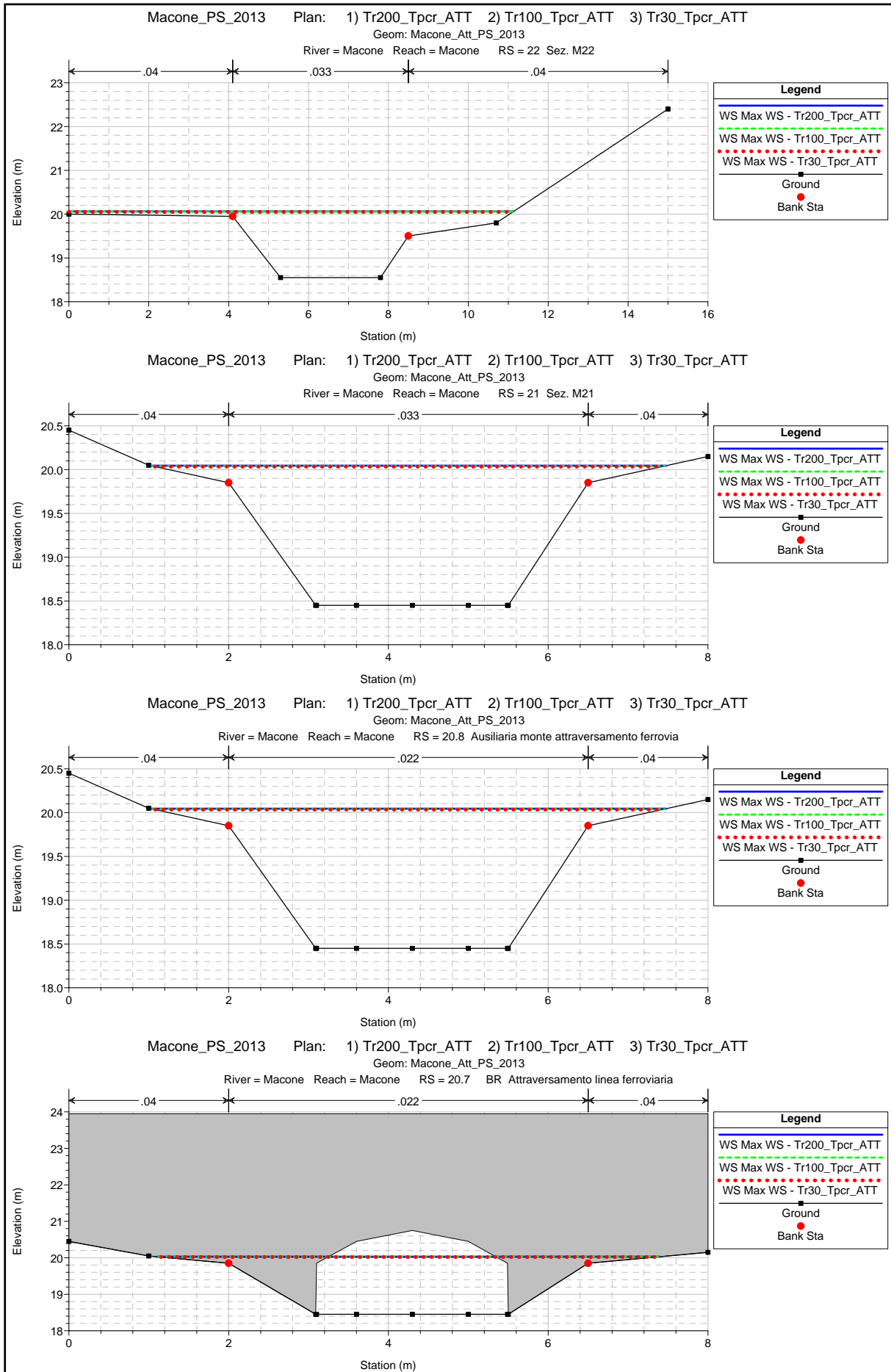


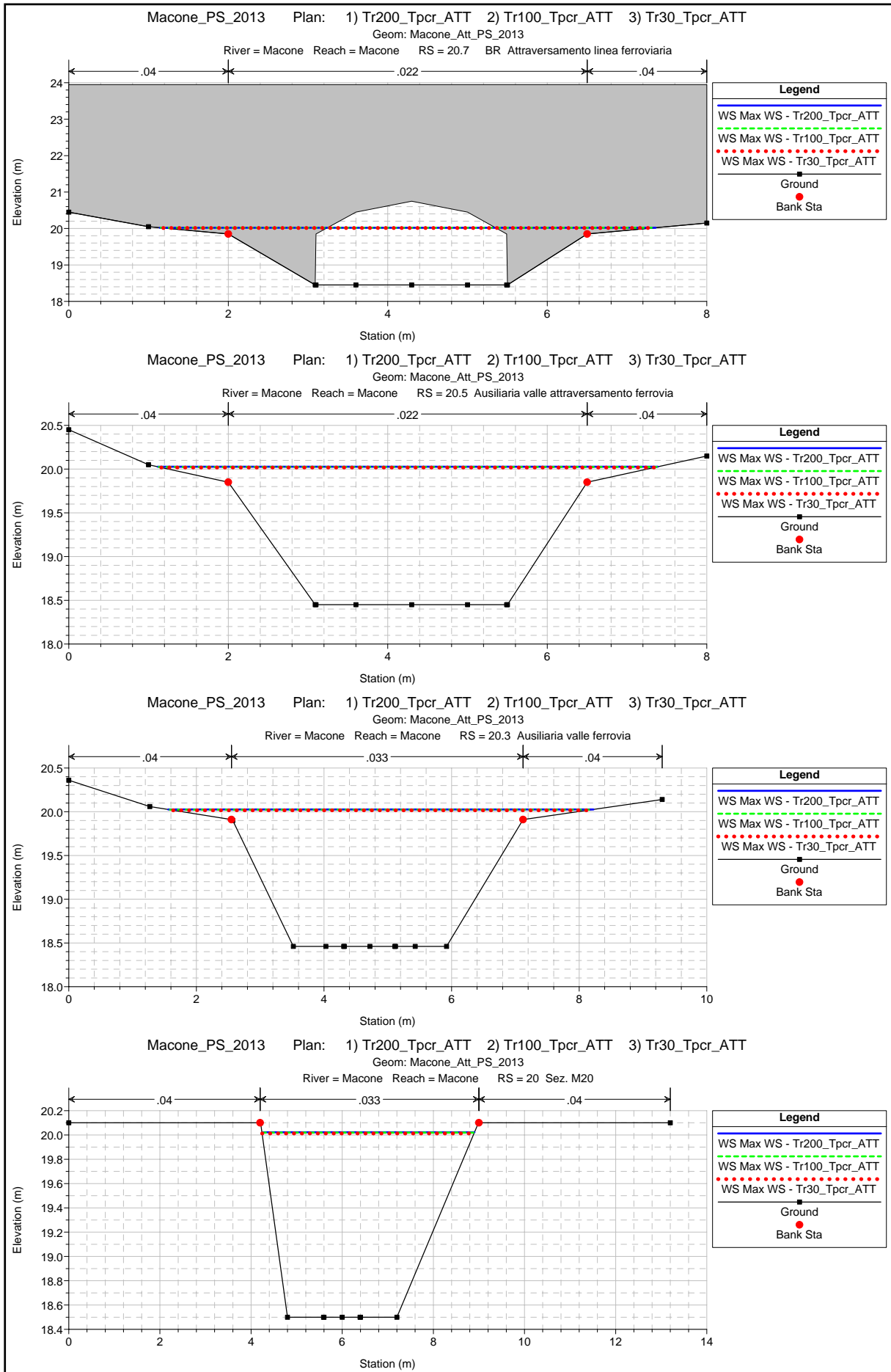


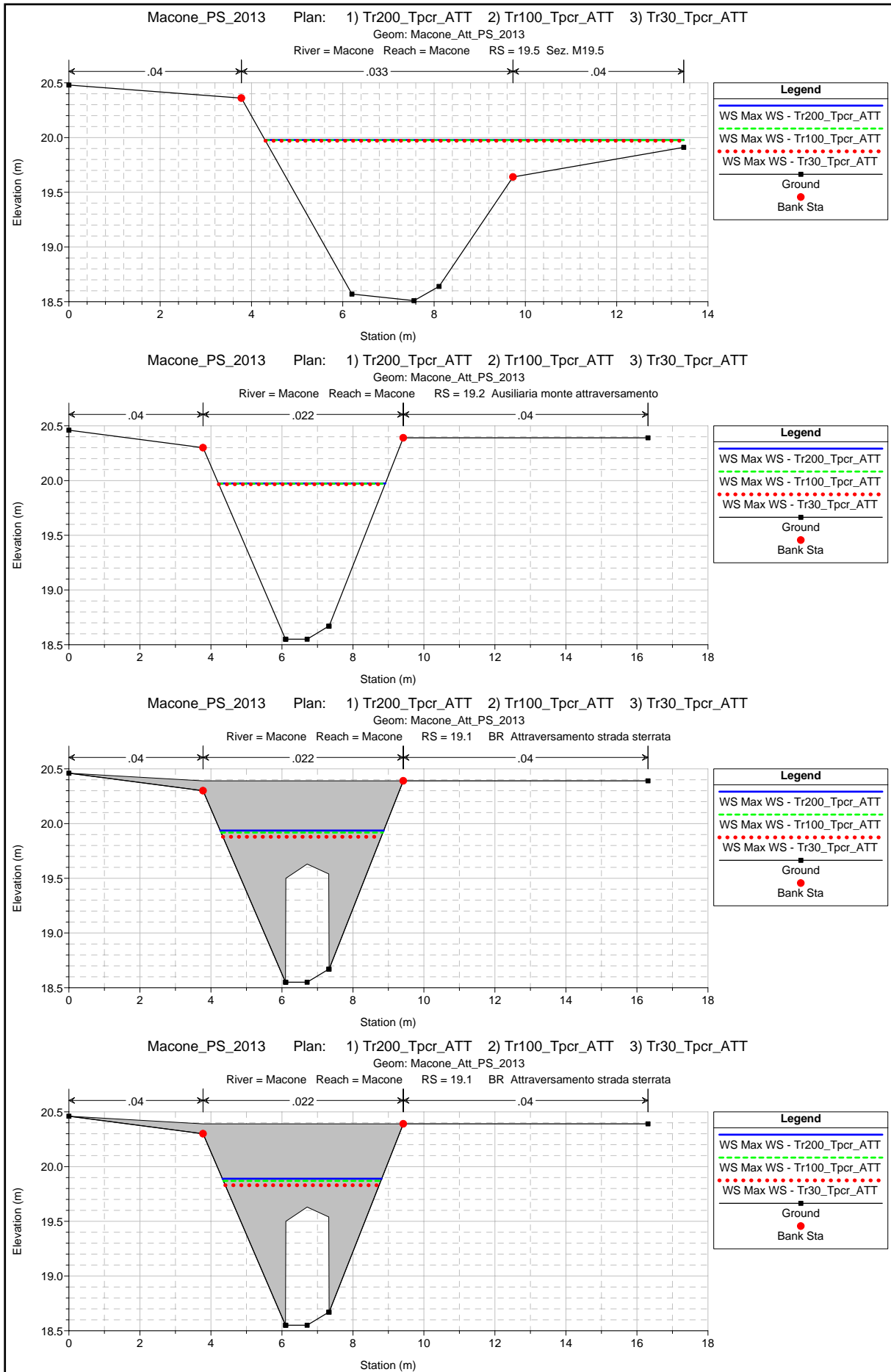


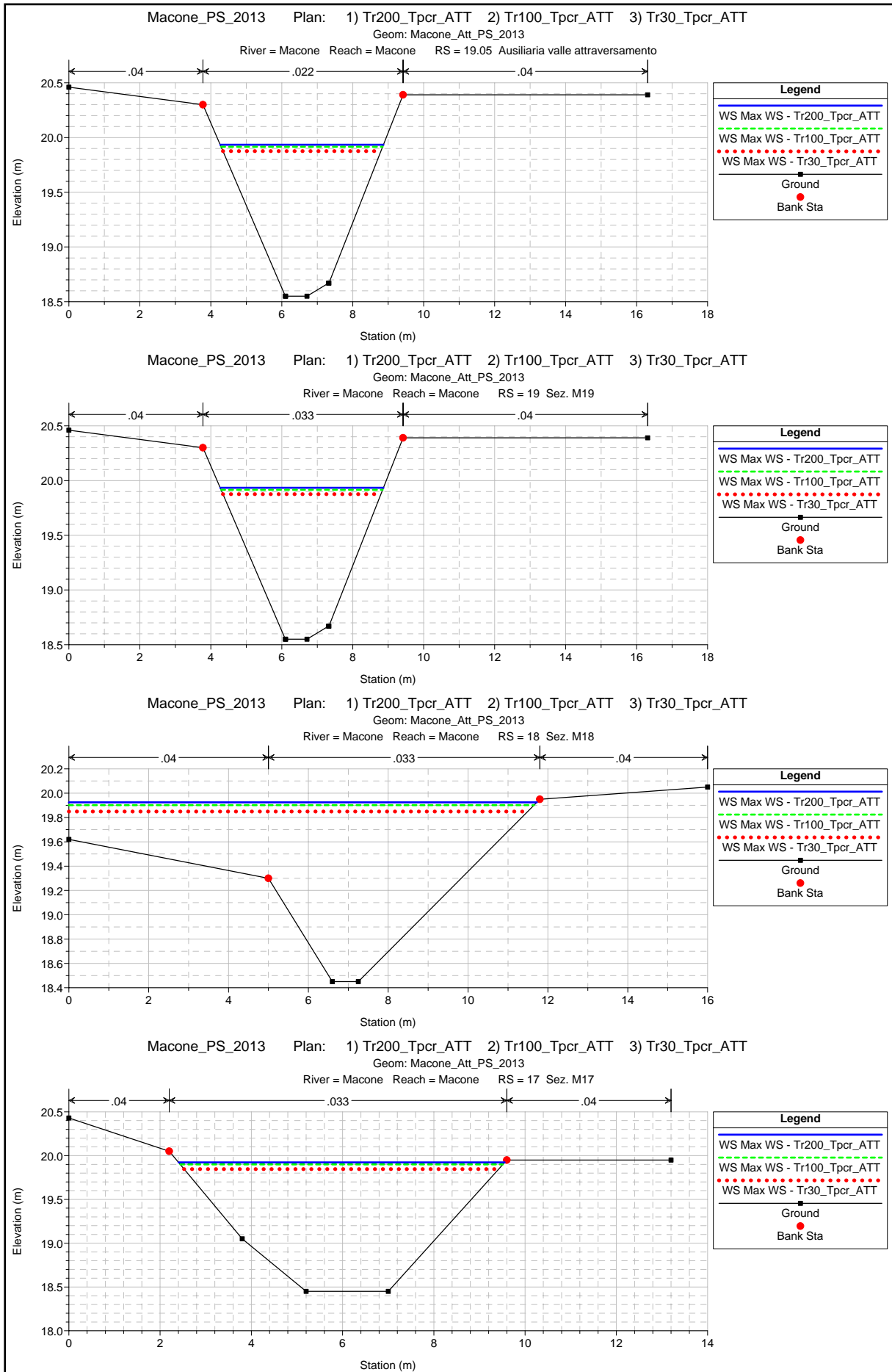


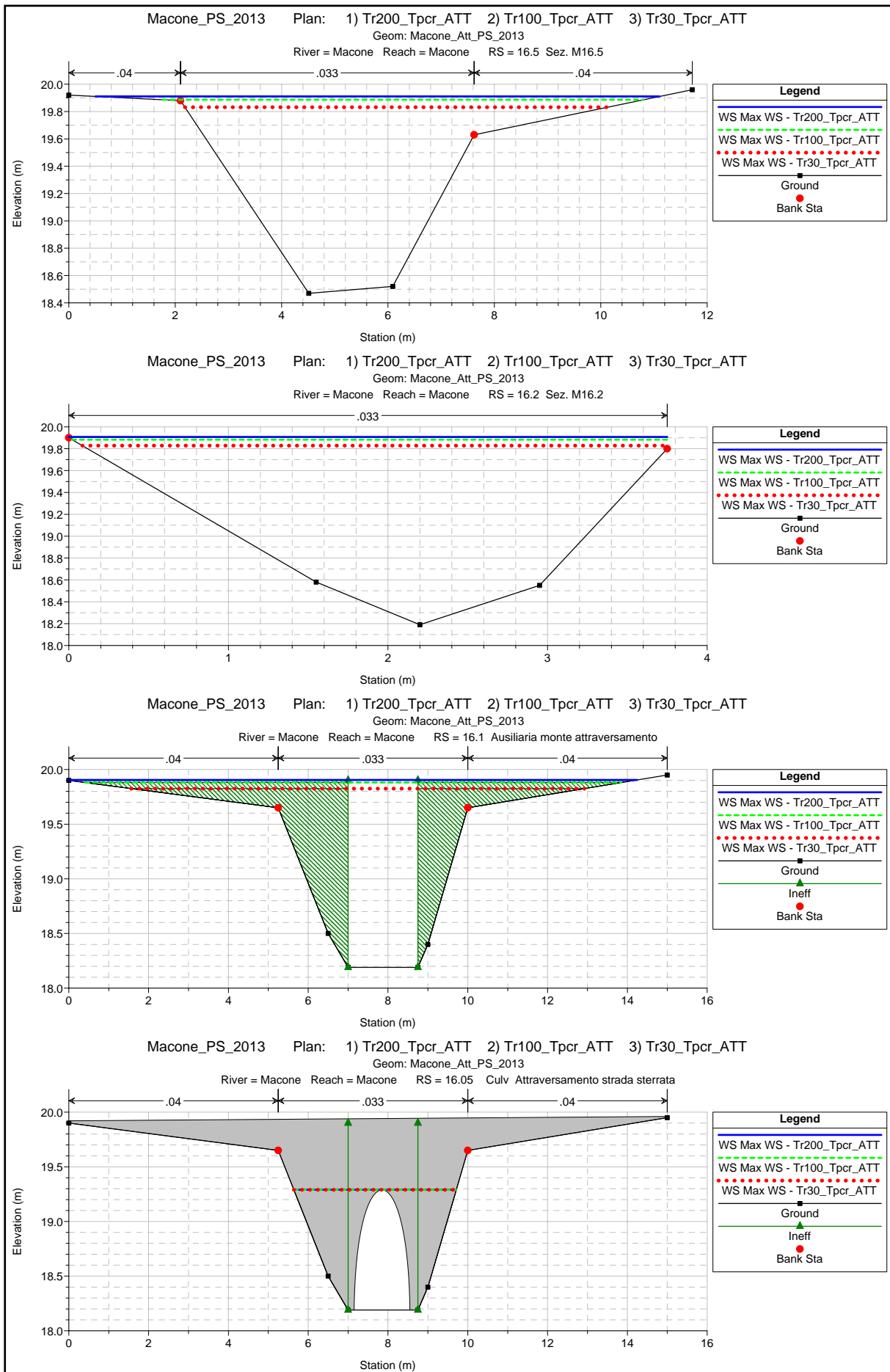


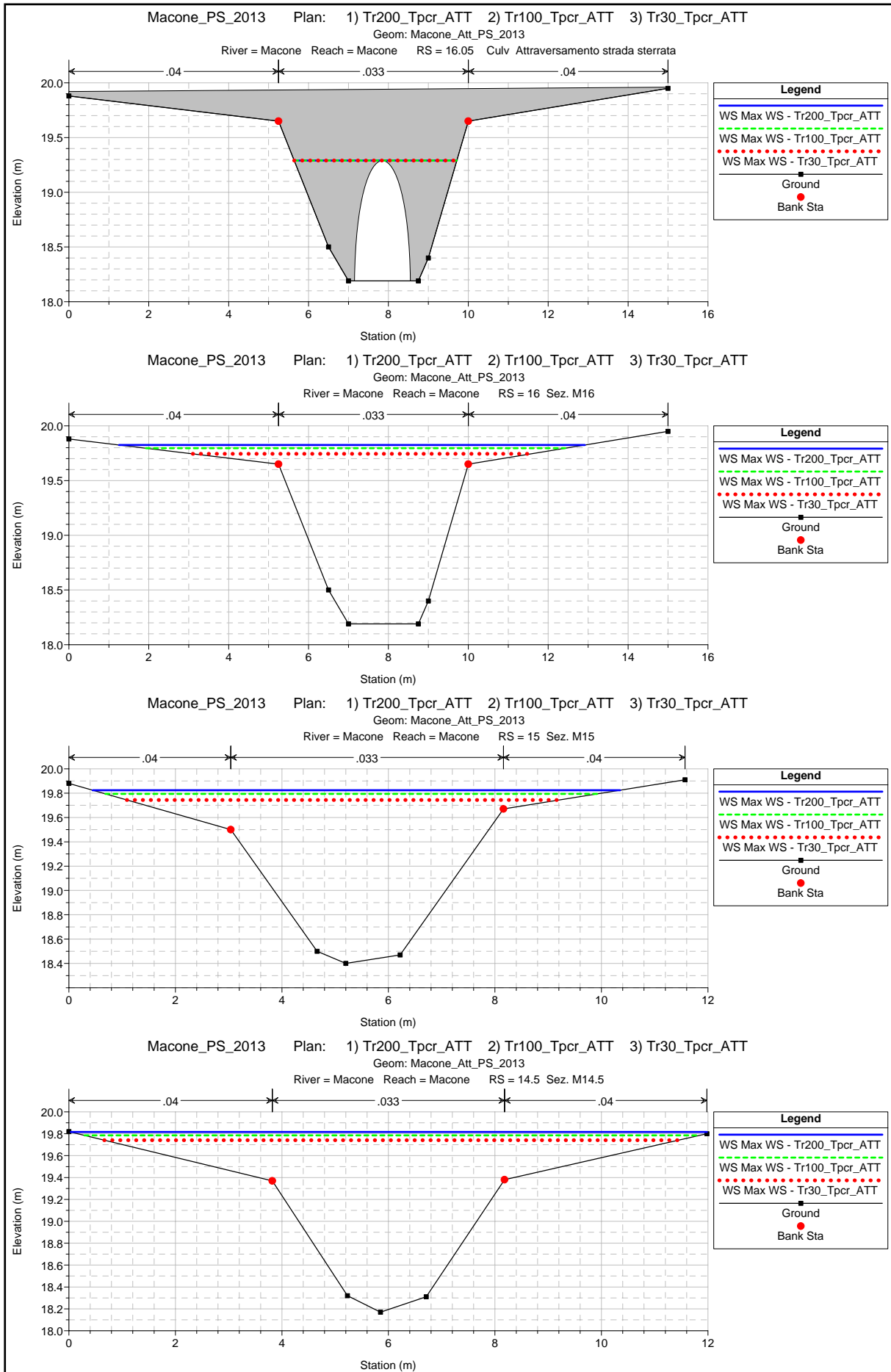


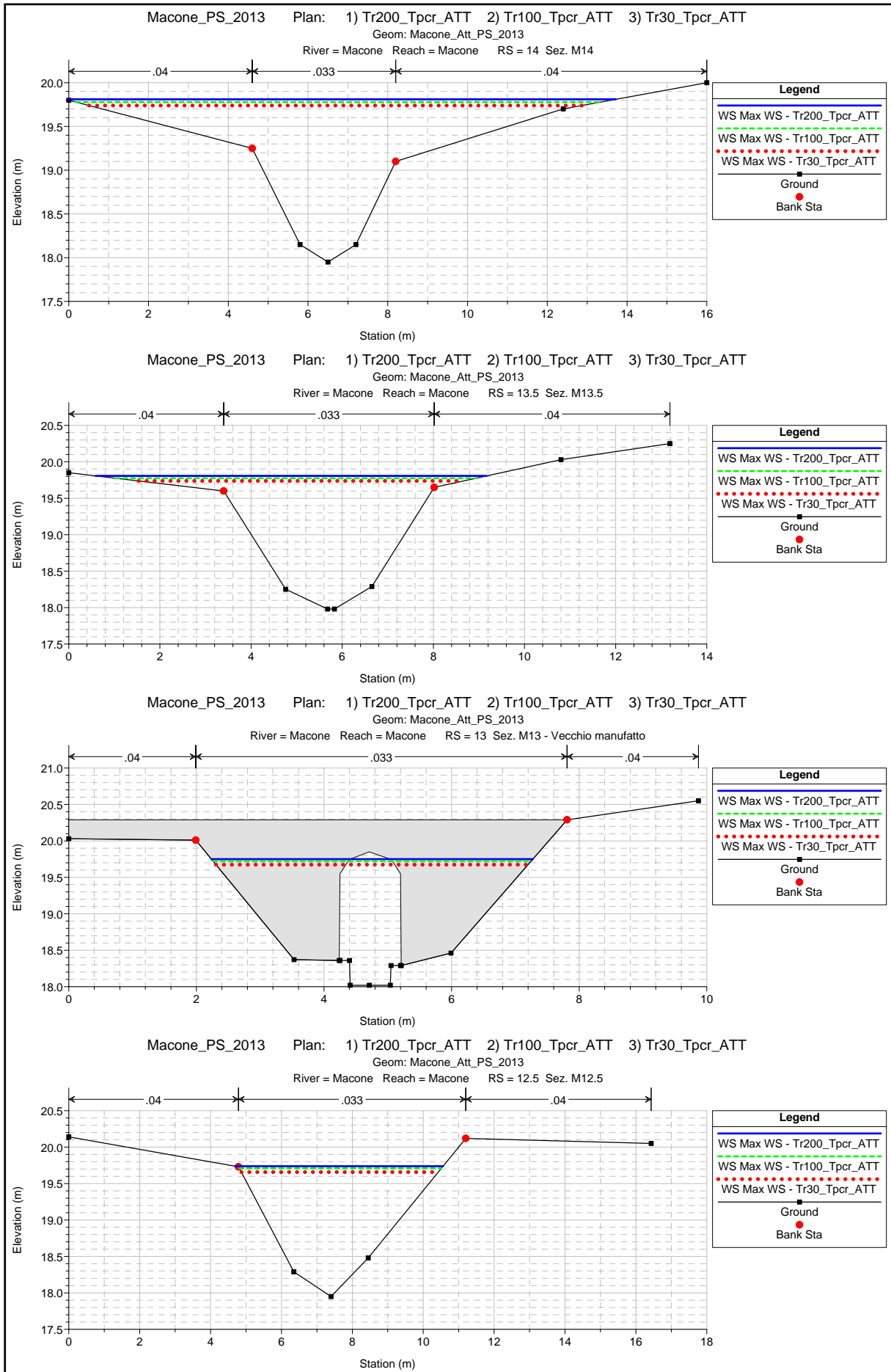


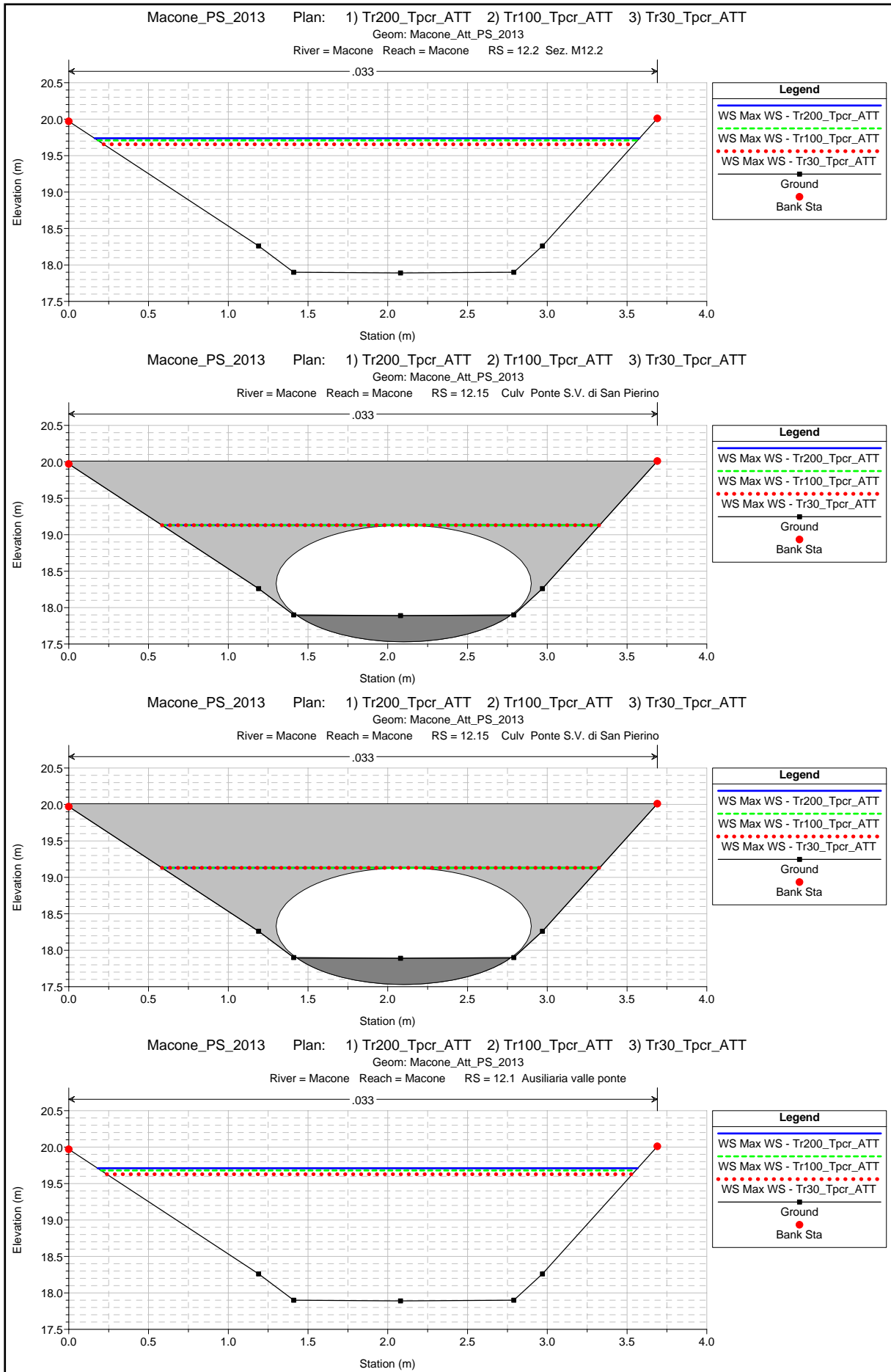




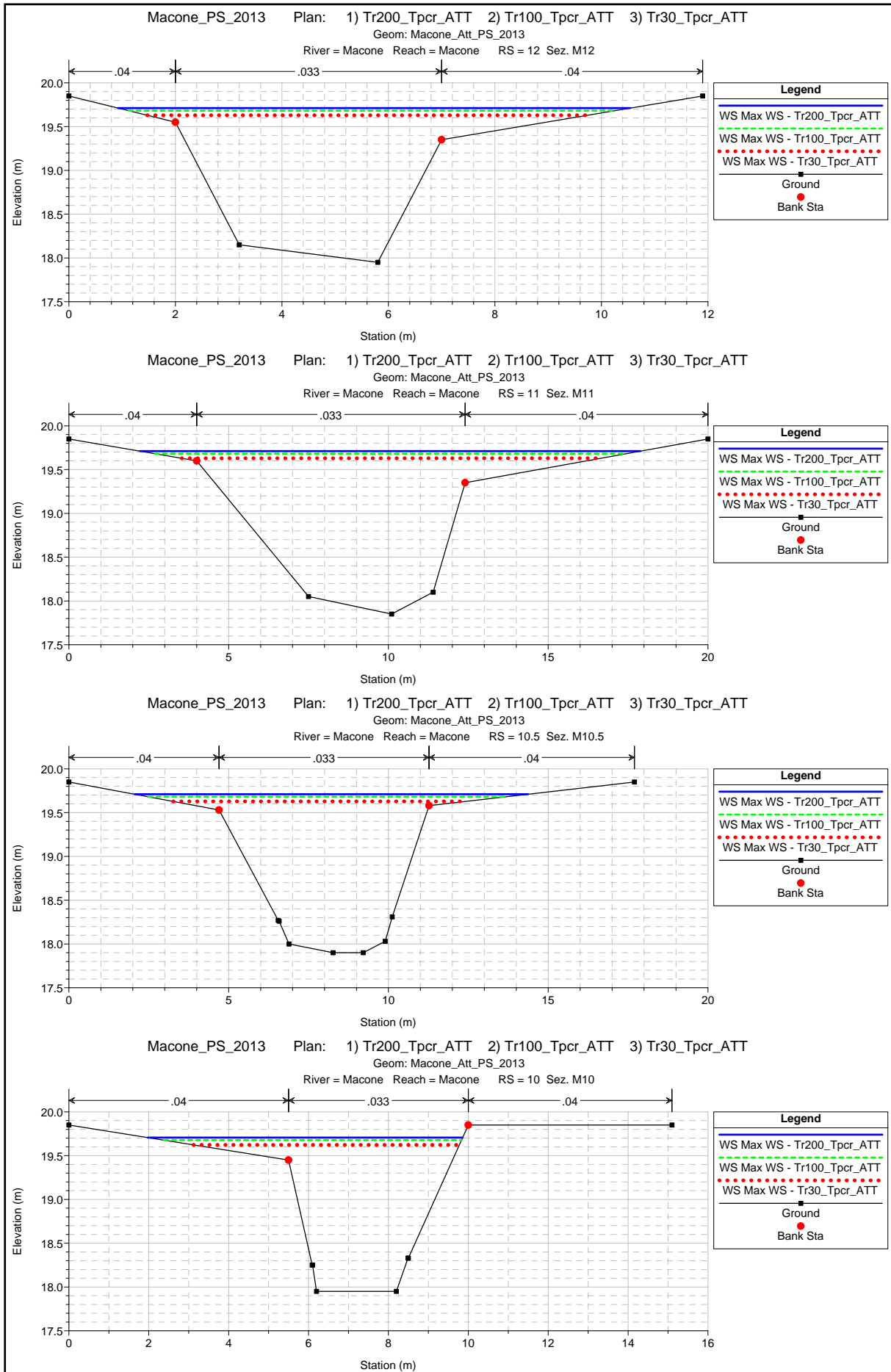


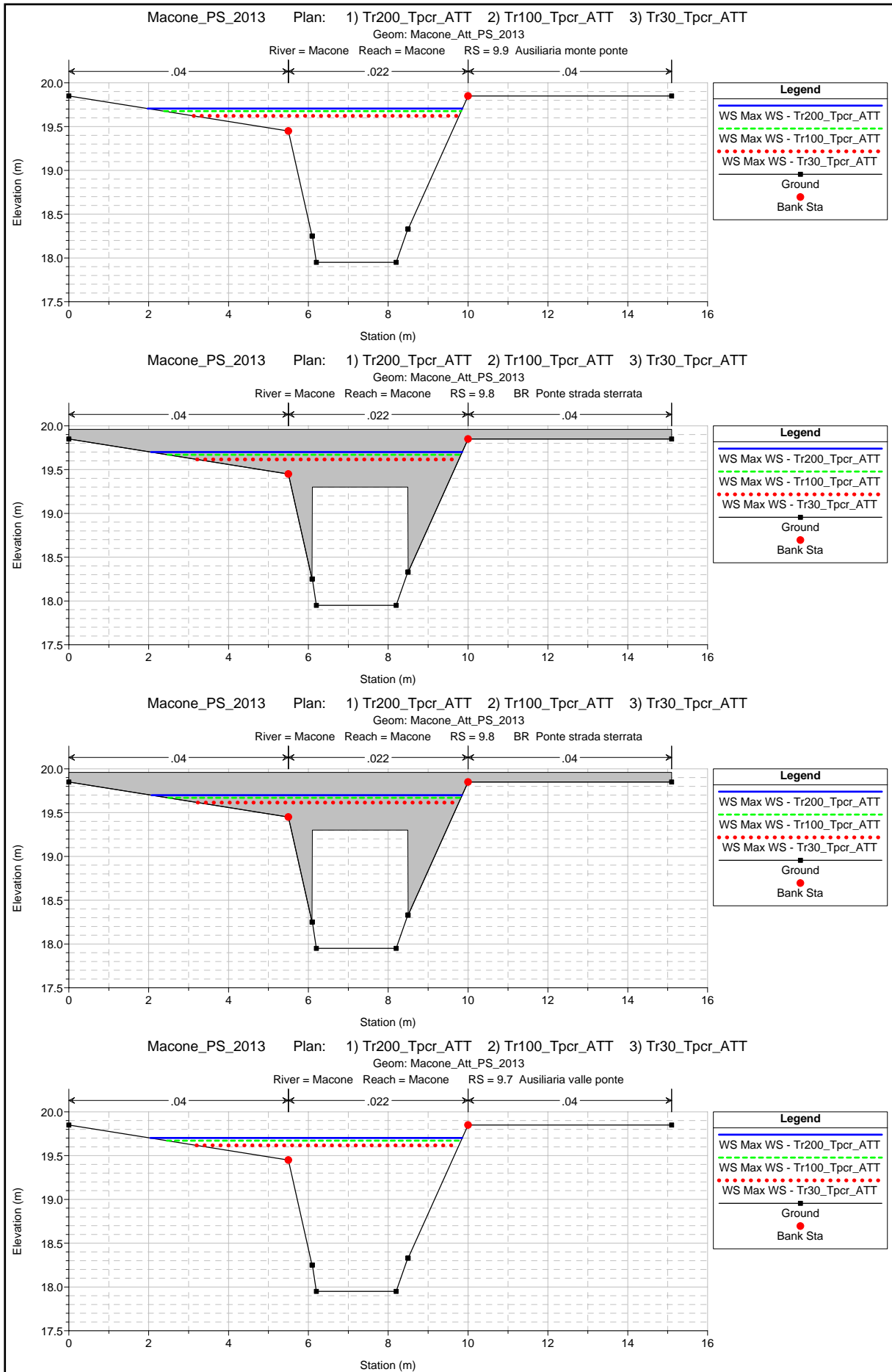


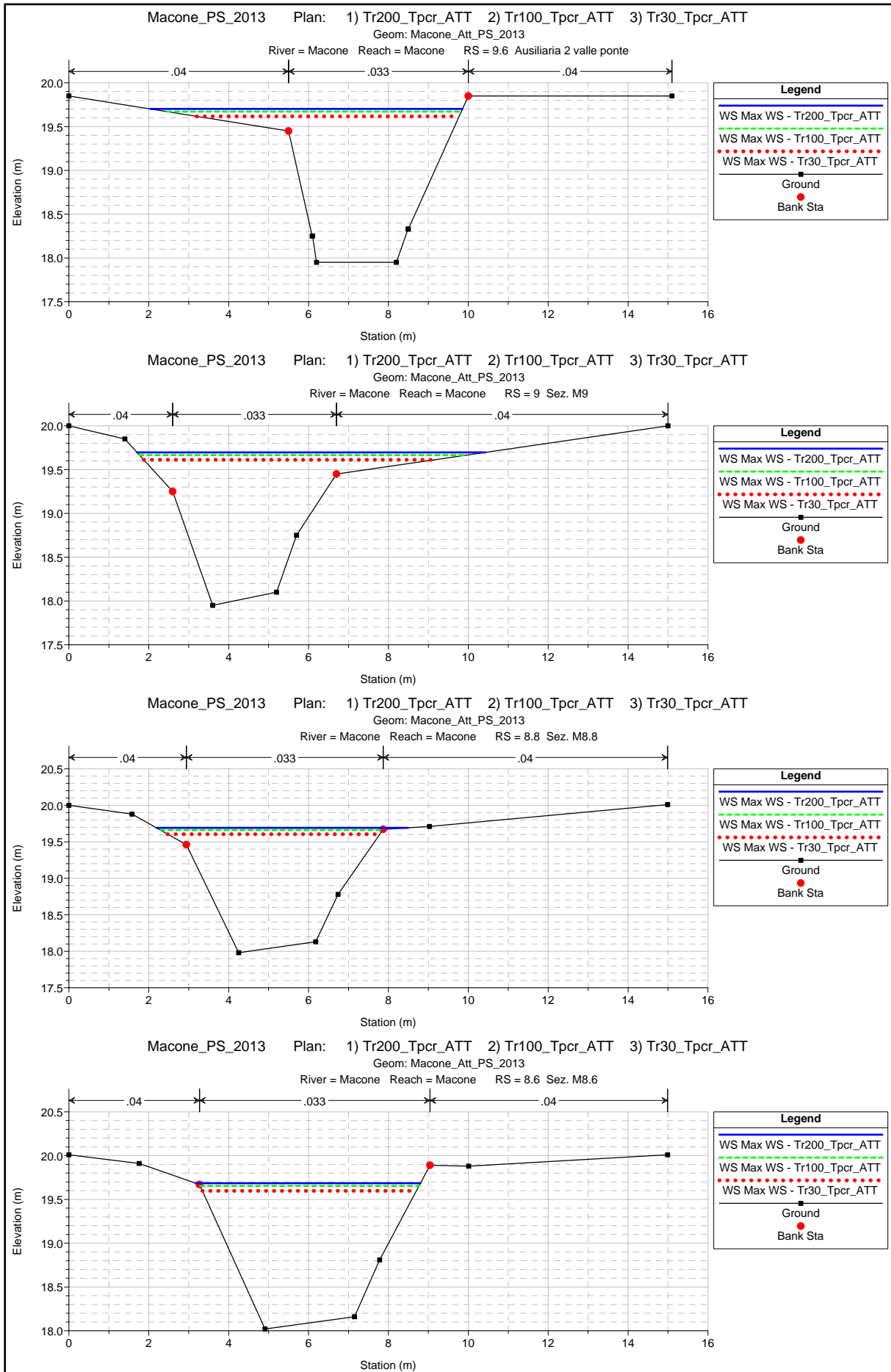


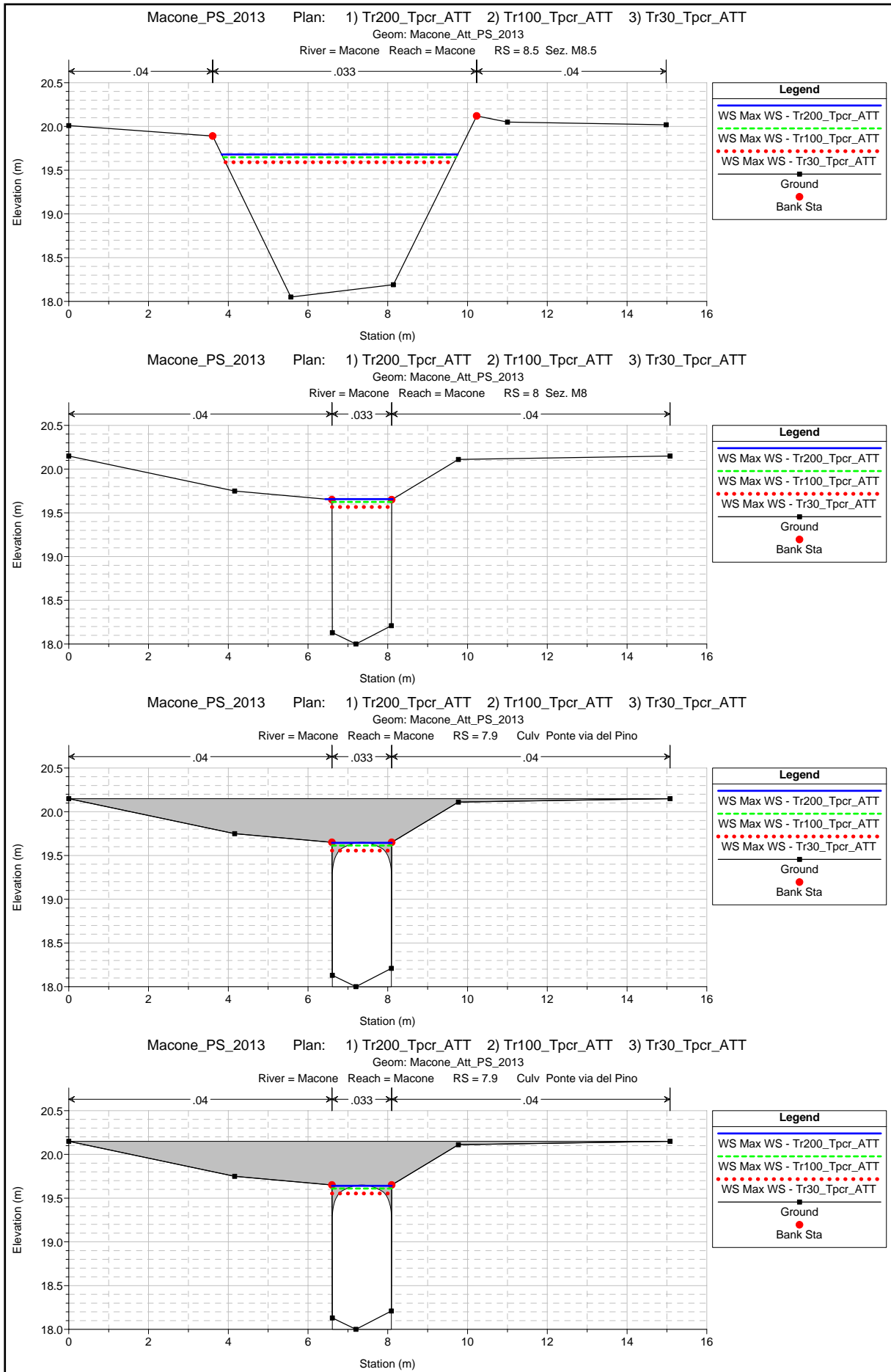


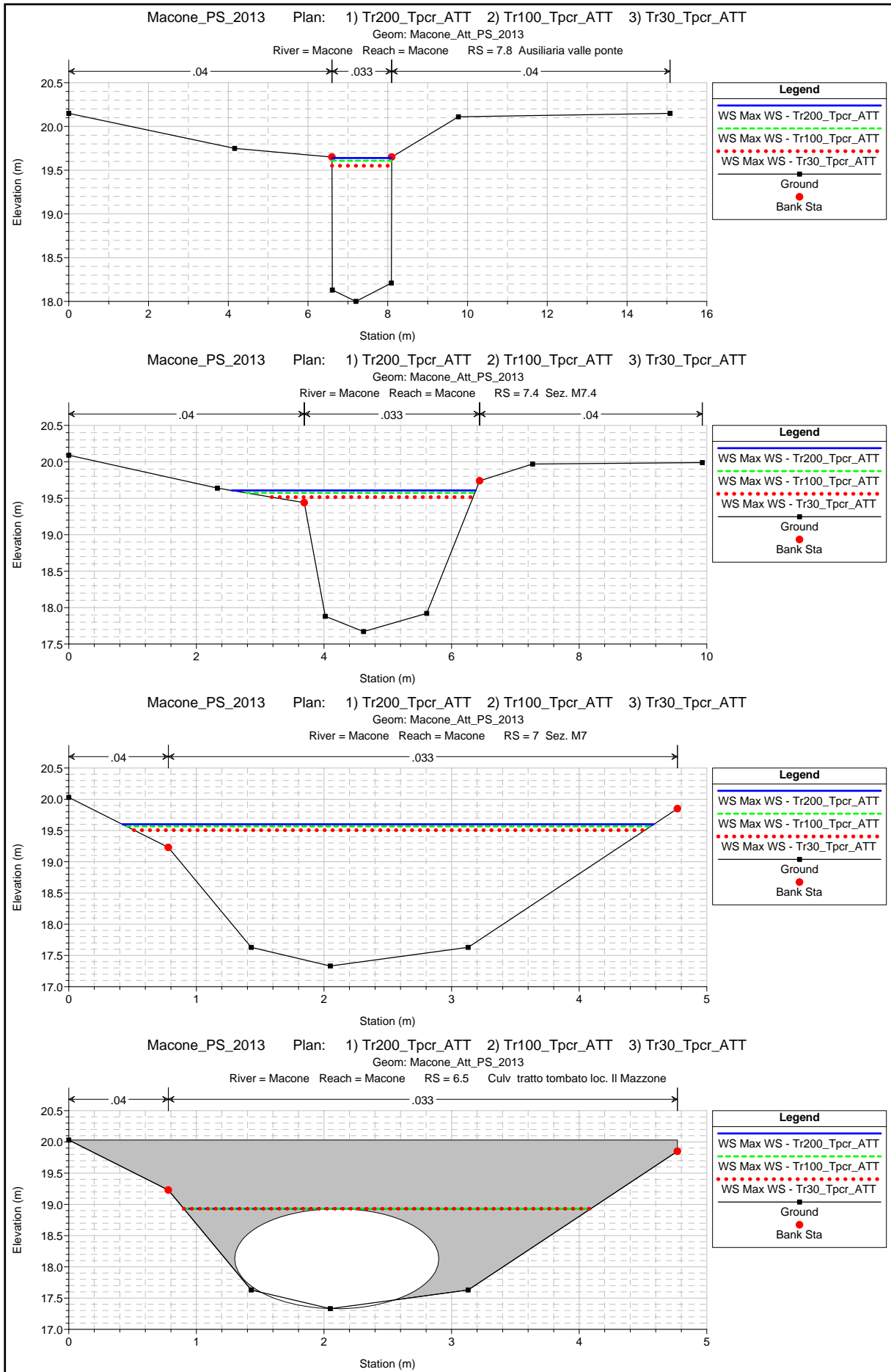


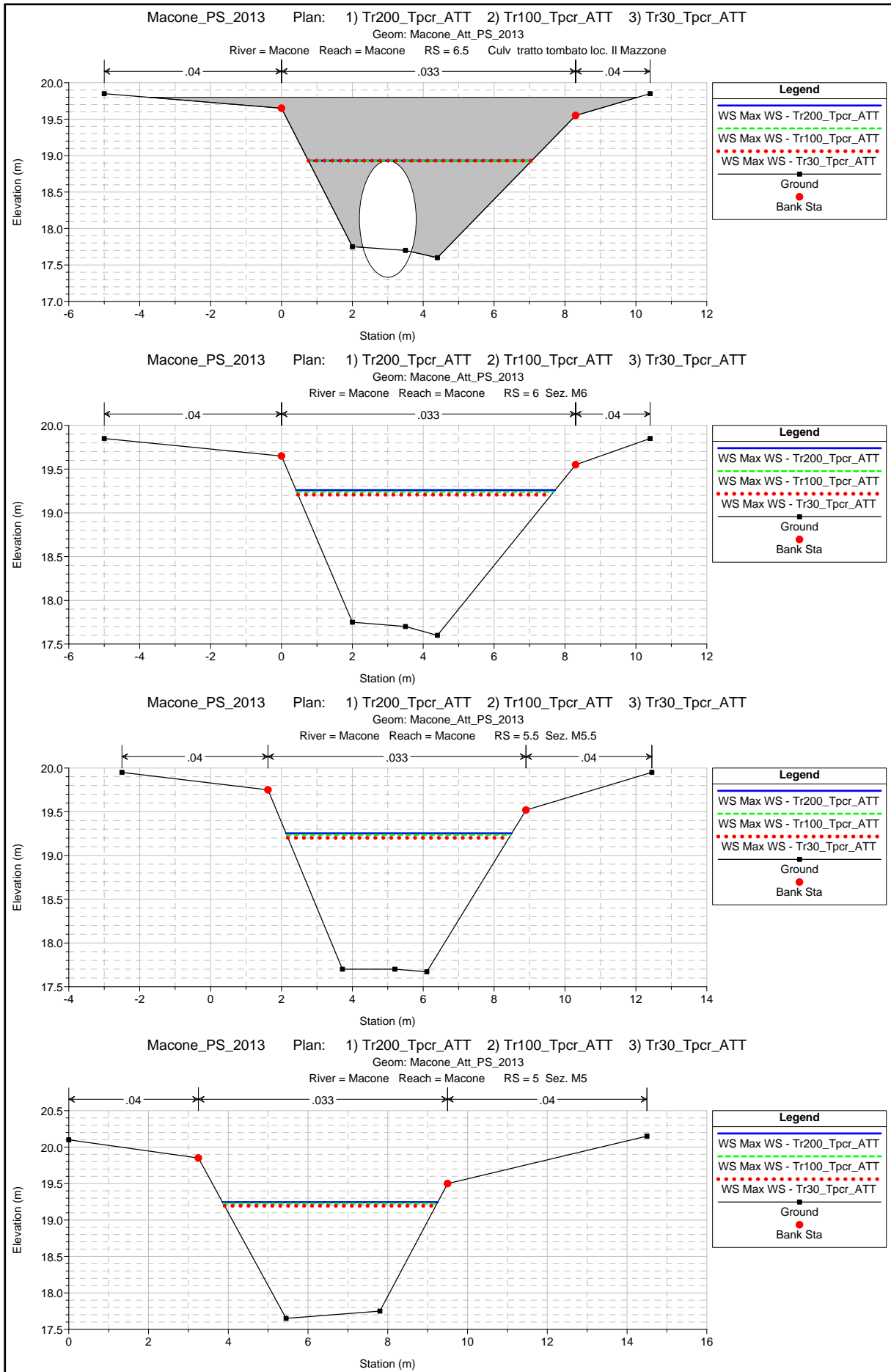


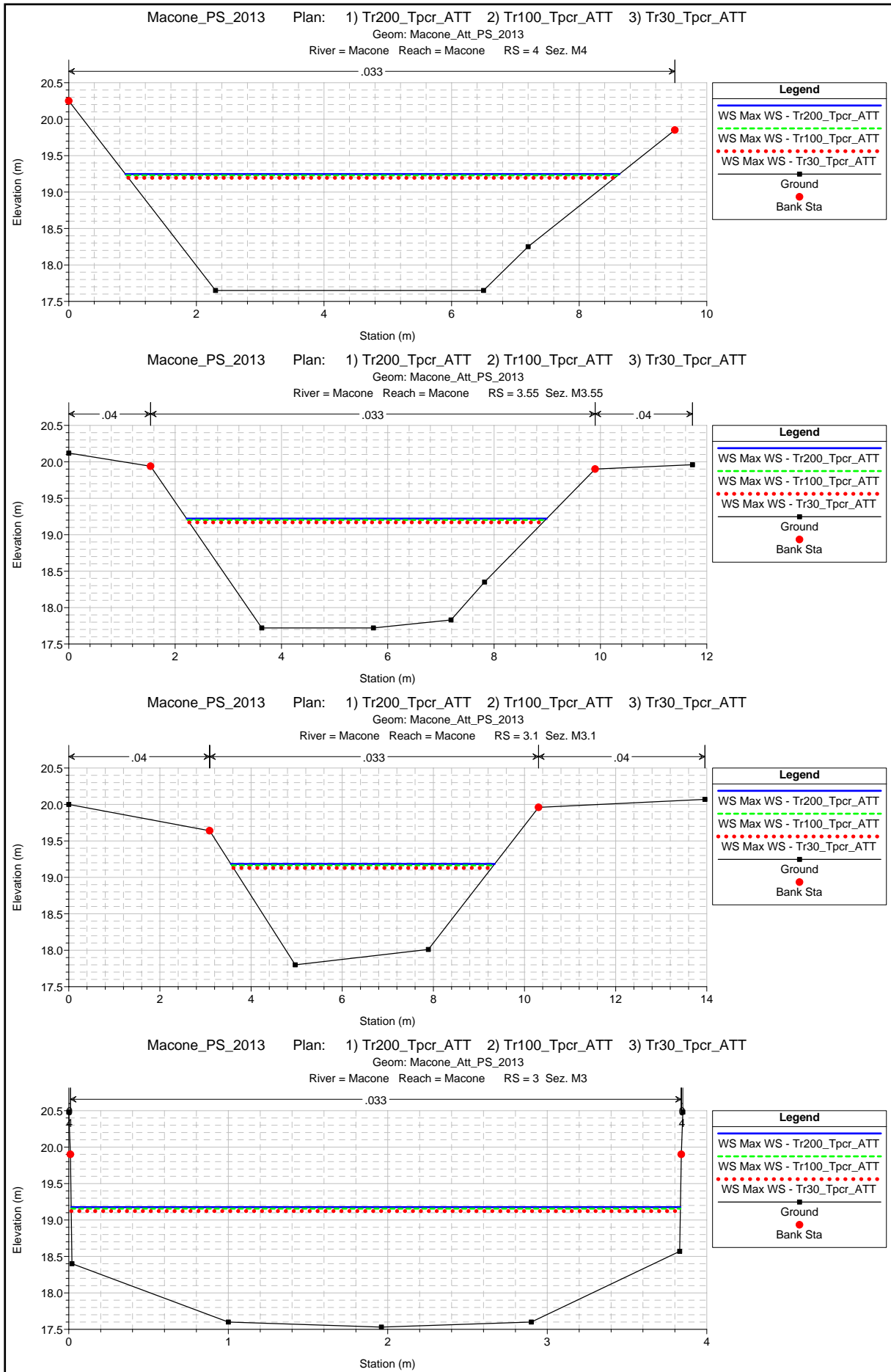


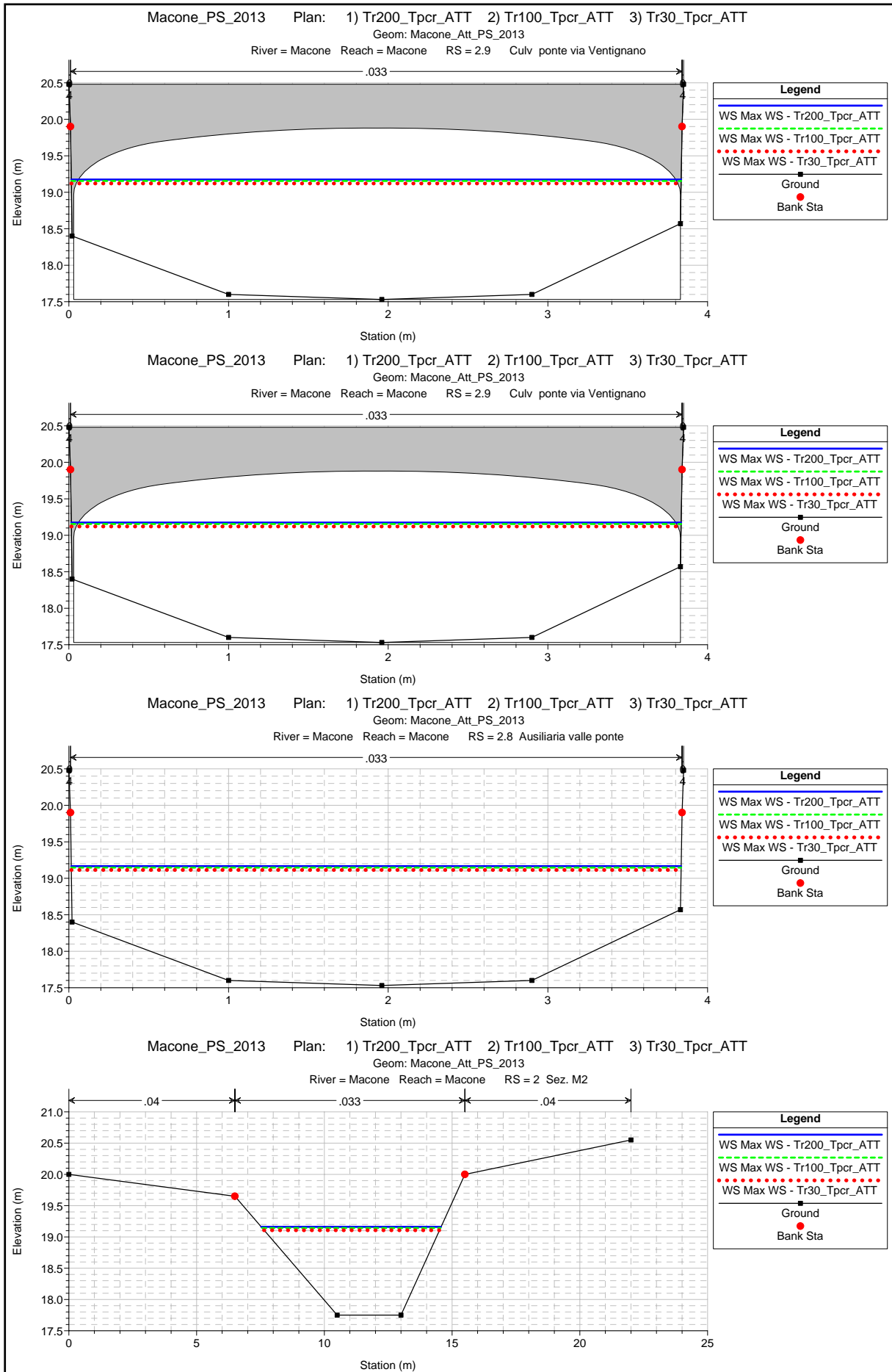




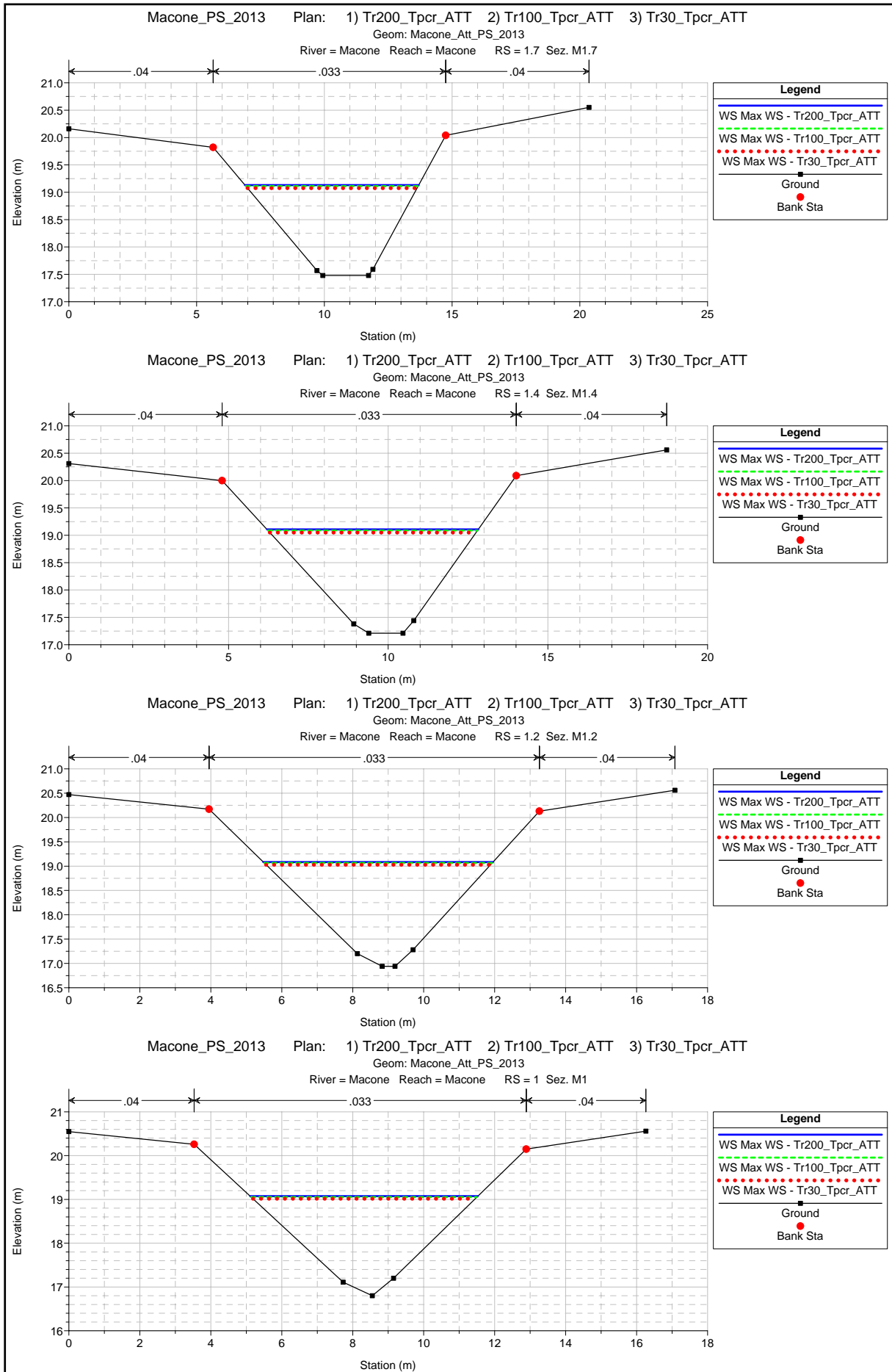


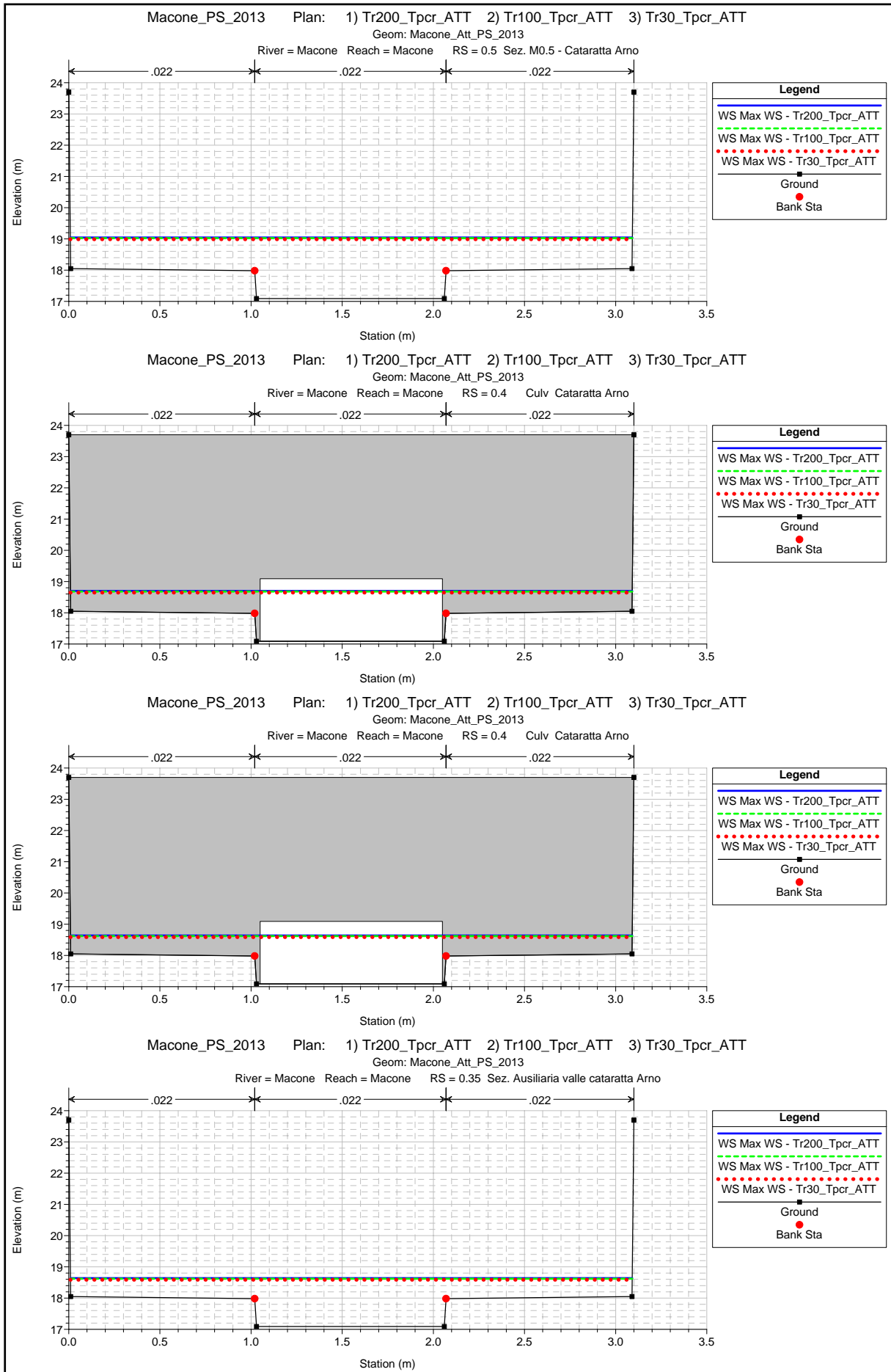


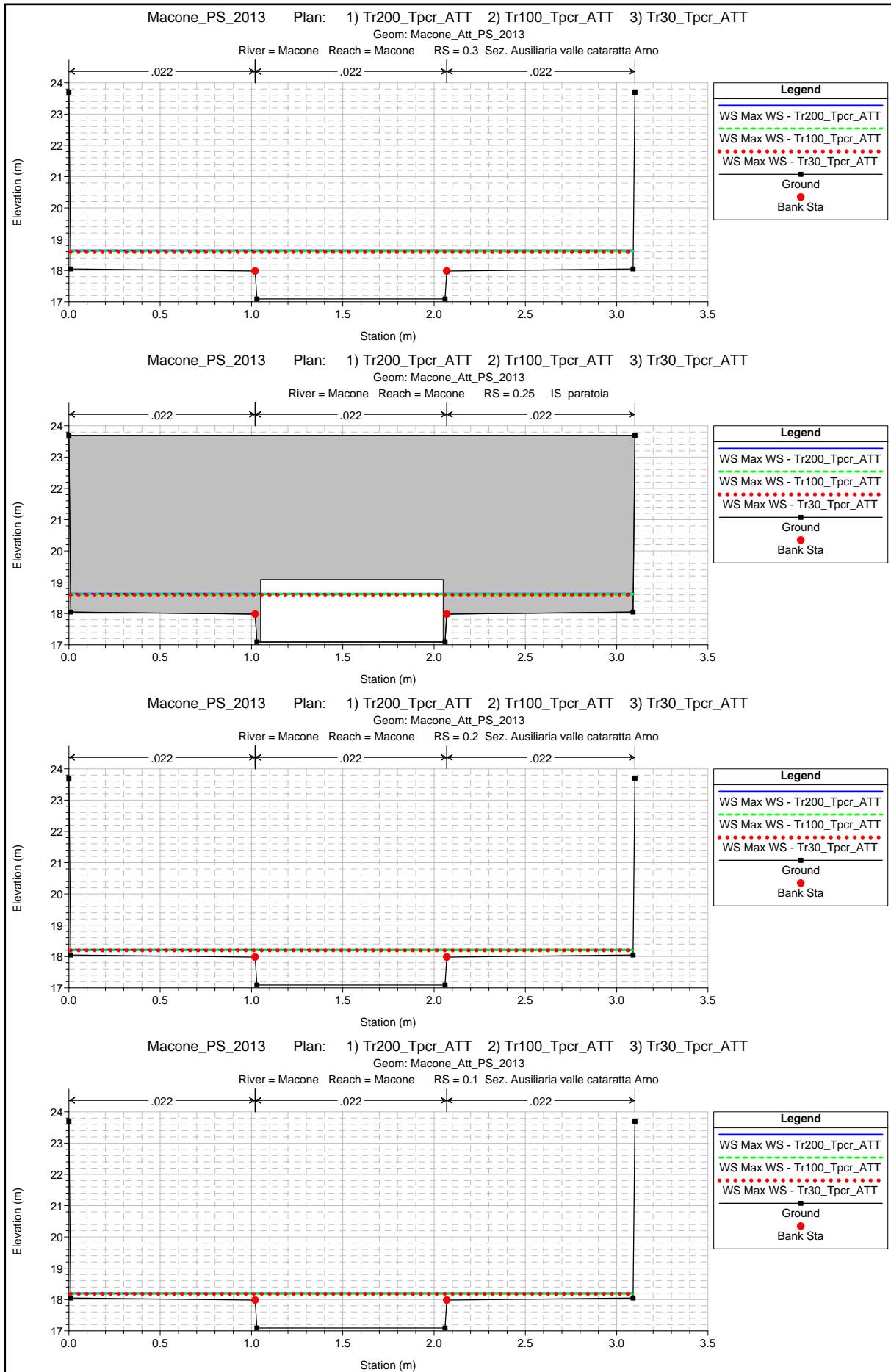












HEC-RAS River: Macone Reach: Macone Profile: Max WS

Reach	River Sta	Profile	Plan	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
Macone	30	Max WS	Tr200_Tpcr_ATT	6.60	19.12	20.80		20.87	0.001675	1.14	5.80	4.83	0.33
Macone	30	Max WS	Tr100_Tpcr_ATT	6.00	19.12	20.78		20.83	0.001464	1.05	5.69	4.83	0.31
Macone	30	Max WS	Tr30_Tpcr_ATT	4.50	19.12	20.70		20.74	0.000987	0.85	5.32	4.72	0.25
Macone	29.9	Max WS	Tr200_Tpcr_ATT	6.60	19.12	20.79		20.86	0.001721	1.15	5.75	4.83	0.34
Macone	29.9	Max WS	Tr100_Tpcr_ATT	6.00	19.12	20.77		20.82	0.001497	1.06	5.64	4.81	0.31
Macone	29.9	Max WS	Tr30_Tpcr_ATT	4.50	19.12	20.69		20.73	0.001002	0.85	5.29	4.71	0.26
Macone	29.88			Lat Struct									
Macone	29	Max WS	Tr200_Tpcr_ATT	3.15	19.01	20.66		20.66	0.000183	0.41	7.71	6.29	0.12
Macone	29	Max WS	Tr100_Tpcr_ATT	3.14	19.01	20.64		20.65	0.000187	0.41	7.64	6.29	0.12
Macone	29	Max WS	Tr30_Tpcr_ATT	3.05	19.01	20.60		20.61	0.000196	0.41	7.37	6.29	0.12
Macone	28	Max WS	Tr200_Tpcr_ATT	3.15	19.00	20.62		20.67	0.000884	0.98	3.22	2.00	0.25
Macone	28	Max WS	Tr100_Tpcr_ATT	3.14	19.00	20.61		20.66	0.000893	0.98	3.19	2.00	0.25
Macone	28	Max WS	Tr30_Tpcr_ATT	3.05	19.00	20.56		20.61	0.000903	0.98	3.11	2.00	0.25
Macone	27.5			Culvert									
Macone	27	Max WS	Tr200_Tpcr_ATT	3.15	19.00	20.53		20.58	0.001018	1.04	3.04	2.00	0.27
Macone	27	Max WS	Tr100_Tpcr_ATT	3.13	19.00	20.52		20.57	0.001025	1.04	3.02	2.00	0.27
Macone	27	Max WS	Tr30_Tpcr_ATT	3.05	19.00	20.49		20.54	0.001023	1.03	2.96	1.99	0.27
Macone	26.75	Max WS	Tr200_Tpcr_ATT	3.14	18.77	20.48		20.51	0.000498	0.79	3.96	2.33	0.19
Macone	26.75	Max WS	Tr100_Tpcr_ATT	3.13	18.77	20.47		20.50	0.000502	0.80	3.93	2.33	0.20
Macone	26.75	Max WS	Tr30_Tpcr_ATT	3.04	18.77	20.43		20.47	0.000499	0.79	3.86	2.33	0.20
Macone	26.5	Max WS	Tr200_Tpcr_ATT	3.14	18.54	20.45		20.47	0.000257	0.62	5.07	2.66	0.14
Macone	26.5	Max WS	Tr100_Tpcr_ATT	3.13	18.54	20.44		20.46	0.000259	0.62	5.04	2.66	0.14
Macone	26.5	Max WS	Tr30_Tpcr_ATT	3.04	18.54	20.41		20.43	0.000255	0.61	4.96	2.66	0.14
Macone	26.2			Culvert									
Macone	26	Max WS	Tr200_Tpcr_ATT	3.09	18.54	20.39		20.41	0.000230	0.62	5.26	4.83	0.15
Macone	26	Max WS	Tr100_Tpcr_ATT	3.11	18.54	20.38		20.40	0.000239	0.63	5.21	4.76	0.15
Macone	26	Max WS	Tr30_Tpcr_ATT	3.04	18.54	20.35		20.37	0.000240	0.63	5.08	4.58	0.15

HEC-RAS River: Macone Reach: Macone Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Macone	25.99			Lat Struct									
Macone	25.98			Lat Struct									
Macone	25.8	Max WS	Tr200_Tpcr_ATT	3.12	18.54	20.39		20.41	0.000236	0.63	5.25	4.82	0.15
Macone	25.8	Max WS	Tr100_Tpcr_ATT	3.14	18.54	20.38		20.40	0.000244	0.64	5.20	4.75	0.15
Macone	25.8	Max WS	Tr30_Tpcr_ATT	3.06	18.54	20.35		20.37	0.000245	0.63	5.07	4.56	0.15
Macone	25.6	Max WS	Tr200_Tpcr_ATT	3.15	18.53	20.39		20.40	0.000411	0.58	5.60	4.75	0.14
Macone	25.6	Max WS	Tr100_Tpcr_ATT	3.16	18.53	20.38		20.39	0.000424	0.58	5.55	4.67	0.14
Macone	25.6	Max WS	Tr30_Tpcr_ATT	3.07	18.53	20.35		20.37	0.000426	0.58	5.42	4.46	0.14
Macone	24.9	Max WS	Tr200_Tpcr_ATT	3.30	18.45	20.38		20.39	0.000210	0.45	7.38	5.50	0.12
Macone	24.9	Max WS	Tr100_Tpcr_ATT	3.29	18.45	20.37		20.38	0.000214	0.45	7.32	5.48	0.12
Macone	24.9	Max WS	Tr30_Tpcr_ATT	3.18	18.45	20.34		20.35	0.000211	0.44	7.17	5.44	0.12
Macone	24.89	Max WS	Tr200_Tpcr_ATT	3.30	18.45	20.39		20.39	0.000048	0.34	9.58	5.89	0.09
Macone	24.89	Max WS	Tr100_Tpcr_ATT	3.29	18.45	20.38		20.38	0.000048	0.35	9.51	5.88	0.09
Macone	24.89	Max WS	Tr30_Tpcr_ATT	3.18	18.45	20.35		20.35	0.000047	0.34	9.35	5.85	0.09
Macone	24.88			Culvert									
Macone	24.85	Max WS	Tr200_Tpcr_ATT	3.30	18.45	20.38		20.38	0.000048	0.35	9.52	5.88	0.09
Macone	24.85	Max WS	Tr100_Tpcr_ATT	3.29	18.45	20.37		20.37	0.000049	0.35	9.46	5.87	0.09
Macone	24.85	Max WS	Tr30_Tpcr_ATT	3.18	18.45	20.34		20.34	0.000048	0.34	9.30	5.84	0.09
Macone	24.8	Max WS	Tr200_Tpcr_ATT	3.30	18.40	20.37		20.38	0.000078	0.42	7.94	4.87	0.10
Macone	24.8	Max WS	Tr100_Tpcr_ATT	3.30	18.40	20.36		20.37	0.000079	0.42	7.89	4.87	0.10
Macone	24.8	Max WS	Tr30_Tpcr_ATT	3.18	18.40	20.34		20.34	0.000077	0.41	7.75	4.85	0.10
Macone	24.7			Culvert									
Macone	24.6	Max WS	Tr200_Tpcr_ATT	3.30	18.40	20.33		20.34	0.000084	0.43	7.71	4.84	0.11
Macone	24.6	Max WS	Tr100_Tpcr_ATT	3.26	18.40	20.32		20.33	0.000084	0.43	7.66	4.83	0.11
Macone	24.6	Max WS	Tr30_Tpcr_ATT	3.18	18.40	20.29		20.30	0.000083	0.42	7.54	4.82	0.11
Macone	24.55	Max WS	Tr200_Tpcr_ATT	3.30	18.42	20.33		20.34	0.000202	0.44	7.53	4.83	0.11
Macone	24.55	Max WS	Tr100_Tpcr_ATT	3.27	18.42	20.32		20.33	0.000201	0.44	7.49	4.82	0.11

HEC-RAS River: Macone Reach: Macone Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Macone	24.55	Max WS	Tr30_Tpcr_ATT	3.19	18.42	20.29		20.30	0.000200	0.43	7.37	4.80	0.11
Macone	24.54			Lat Struct									
Macone	24.53			Lat Struct									
Macone	23.6	Max WS	Tr200_Tpcr_ATT	3.50	18.86	20.26		20.30	0.001339	0.90	3.89	4.16	0.30
Macone	23.6	Max WS	Tr100_Tpcr_ATT	3.45	18.86	20.25		20.29	0.001336	0.89	3.85	4.14	0.30
Macone	23.6	Max WS	Tr30_Tpcr_ATT	3.30	18.86	20.23		20.27	0.001308	0.88	3.76	4.09	0.29
Macone	23.5	Max WS	Tr200_Tpcr_ATT	3.54	18.27	20.28		20.29	0.000092	0.45	7.83	4.71	0.11
Macone	23.5	Max WS	Tr100_Tpcr_ATT	3.48	18.27	20.27		20.28	0.000090	0.45	7.78	4.71	0.11
Macone	23.5	Max WS	Tr30_Tpcr_ATT	3.34	18.27	20.25		20.26	0.000086	0.44	7.67	4.69	0.11
Macone	23.4			Culvert									
Macone	23.3	Max WS	Tr200_Tpcr_ATT	3.54	18.27	20.23		20.24	0.000100	0.47	7.59	4.67	0.12
Macone	23.3	Max WS	Tr100_Tpcr_ATT	3.48	18.27	20.22		20.23	0.000098	0.46	7.55	4.67	0.12
Macone	23.3	Max WS	Tr30_Tpcr_ATT	3.33	18.27	20.20		20.21	0.000092	0.45	7.46	4.65	0.11
Macone	23.29			Lat Struct									
Macone	23.28			Lat Struct									
Macone	23.25	Max WS	Tr200_Tpcr_ATT	3.55	18.79	20.21		20.24	0.001021	0.78	4.54	5.51	0.27
Macone	23.25	Max WS	Tr100_Tpcr_ATT	3.51	18.79	20.20		20.23	0.001023	0.78	4.50	5.49	0.27
Macone	23.25	Max WS	Tr30_Tpcr_ATT	3.35	18.79	20.18		20.21	0.000989	0.76	4.40	5.43	0.27
Macone	23.2	Max WS	Tr200_Tpcr_ATT	3.82	18.77	20.09		20.14	0.001625	0.95	4.04	5.21	0.34
Macone	23.2	Max WS	Tr100_Tpcr_ATT	3.74	18.77	20.09		20.13	0.001581	0.93	4.01	5.20	0.34
Macone	23.2	Max WS	Tr30_Tpcr_ATT	3.56	18.77	20.08		20.12	0.001482	0.90	3.96	5.17	0.33
Macone	23.1	Max WS	Tr200_Tpcr_ATT	3.90	18.60	20.05		20.08	0.000822	0.74	5.27	8.56	0.25
Macone	23.1	Max WS	Tr100_Tpcr_ATT	3.84	18.60	20.05		20.08	0.000804	0.73	5.25	8.25	0.25
Macone	23.1	Max WS	Tr30_Tpcr_ATT	3.64	18.60	20.04		20.07	0.000736	0.70	5.21	7.50	0.24
Macone	22	Max WS	Tr200_Tpcr_ATT	2.01	18.55	20.06		20.07	0.000125	0.34	6.81	11.14	0.10
Macone	22	Max WS	Tr100_Tpcr_ATT	2.01	18.55	20.06		20.06	0.000127	0.34	6.77	11.13	0.10

HEC-RAS River: Macone Reach: Macone Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Macone	22	Max WS	Tr30_Tpcr_ATT	2.01	18.55	20.05		20.06	0.000131	0.34	6.67	11.11	0.10
Macone	21	Max WS	Tr200_Tpcr_ATT	2.38	18.45	20.05		20.05	0.000195	0.41	5.91	6.45	0.12
Macone	21	Max WS	Tr100_Tpcr_ATT	2.34	18.45	20.04		20.05	0.000190	0.41	5.88	6.42	0.12
Macone	21	Max WS	Tr30_Tpcr_ATT	2.26	18.45	20.03		20.04	0.000181	0.40	5.84	6.34	0.11
Macone	20.8	Max WS	Tr200_Tpcr_ATT	2.38	18.45	20.04	18.89	20.05	0.000087	0.41	5.90	6.45	0.12
Macone	20.8	Max WS	Tr100_Tpcr_ATT	2.34	18.45	20.04	18.89	20.05	0.000085	0.41	5.88	6.41	0.12
Macone	20.8	Max WS	Tr30_Tpcr_ATT	2.26	18.45	20.03	18.88	20.04	0.000081	0.40	5.83	6.34	0.11
Macone	20.7			Bridge									
Macone	20.5	Max WS	Tr200_Tpcr_ATT	2.38	18.45	20.03		20.04	0.000091	0.42	5.79	6.27	0.12
Macone	20.5	Max WS	Tr100_Tpcr_ATT	2.34	18.45	20.02		20.03	0.000089	0.42	5.77	6.24	0.12
Macone	20.5	Max WS	Tr30_Tpcr_ATT	2.26	18.45	20.02		20.03	0.000084	0.40	5.73	6.18	0.12
Macone	20.3	Max WS	Tr200_Tpcr_ATT	2.38	18.46	20.03		20.04	0.000219	0.43	5.70	6.66	0.12
Macone	20.3	Max WS	Tr100_Tpcr_ATT	2.34	18.46	20.02		20.03	0.000214	0.42	5.68	6.61	0.12
Macone	20.3	Max WS	Tr30_Tpcr_ATT	2.26	18.46	20.02		20.03	0.000203	0.41	5.64	6.50	0.12
Macone	20.29			Lat Struct									
Macone	20.28			Lat Struct									
Macone	20	Max WS	Tr200_Tpcr_ATT	2.38	18.50	20.02		20.03	0.000264	0.44	5.37	4.66	0.13
Macone	20	Max WS	Tr100_Tpcr_ATT	2.34	18.50	20.02		20.03	0.000257	0.44	5.36	4.66	0.13
Macone	20	Max WS	Tr30_Tpcr_ATT	2.26	18.50	20.01		20.02	0.000243	0.42	5.33	4.65	0.13
Macone	19.5	Max WS	Tr200_Tpcr_ATT	1.71	18.51	19.98		19.98	0.000118	0.30	6.19	9.17	0.10
Macone	19.5	Max WS	Tr100_Tpcr_ATT	1.72	18.51	19.98		19.98	0.000122	0.31	6.16	9.17	0.10
Macone	19.5	Max WS	Tr30_Tpcr_ATT	1.74	18.51	19.97		19.98	0.000127	0.31	6.12	9.16	0.10
Macone	19.2	Max WS	Tr200_Tpcr_ATT	1.71	18.55	19.97	19.08	19.98	0.000130	0.42	4.09	4.70	0.14
Macone	19.2	Max WS	Tr100_Tpcr_ATT	1.72	18.55	19.97	19.08	19.98	0.000133	0.42	4.08	4.70	0.14
Macone	19.2	Max WS	Tr30_Tpcr_ATT	1.74	18.55	19.97	19.08	19.98	0.000139	0.43	4.05	4.68	0.15
Macone	19.1			Bridge									

HEC-RAS River: Macone Reach: Macone Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Macone	19.05	Max WS	Tr200_Tpcr_ATT	0.83	18.55	19.93		19.94	0.000035	0.21	3.91	4.60	0.07
Macone	19.05	Max WS	Tr100_Tpcr_ATT	0.96	18.55	19.92		19.92	0.000050	0.25	3.82	4.55	0.09
Macone	19.05	Max WS	Tr30_Tpcr_ATT	1.18	18.55	19.88		19.88	0.000085	0.33	3.64	4.45	0.11
Macone	19	Max WS	Tr200_Tpcr_ATT	0.83	18.55	19.93		19.94	0.000079	0.21	3.91	4.60	0.07
Macone	19	Max WS	Tr100_Tpcr_ATT	0.96	18.55	19.92		19.92	0.000112	0.25	3.82	4.55	0.09
Macone	19	Max WS	Tr30_Tpcr_ATT	1.18	18.55	19.88		19.88	0.000192	0.33	3.64	4.45	0.11
Macone	18.99			Lat Struct									
Macone	18.98			Lat Struct									
Macone	18	Max WS	Tr200_Tpcr_ATT	0.46	18.45	19.92		19.92	0.000006	0.06	8.26	11.72	0.02
Macone	18	Max WS	Tr100_Tpcr_ATT	0.54	18.45	19.90		19.90	0.000009	0.08	7.99	11.65	0.03
Macone	18	Max WS	Tr30_Tpcr_ATT	0.68	18.45	19.85		19.85	0.000017	0.11	7.38	11.49	0.04
Macone	17	Max WS	Tr200_Tpcr_ATT	1.04	18.45	19.92		19.92	0.000032	0.15	6.78	7.15	0.05
Macone	17	Max WS	Tr100_Tpcr_ATT	1.05	18.45	19.90		19.90	0.000034	0.16	6.61	7.07	0.05
Macone	17	Max WS	Tr30_Tpcr_ATT	1.06	18.45	19.85		19.85	0.000041	0.17	6.25	6.90	0.06
Macone	16.99			Lat Struct									
Macone	16.5	Max WS	Tr200_Tpcr_ATT	1.13	18.47	19.91		19.91	0.000060	0.21	5.80	10.61	0.07
Macone	16.5	Max WS	Tr100_Tpcr_ATT	1.12	18.47	19.89		19.89	0.000064	0.21	5.56	9.04	0.07
Macone	16.5	Max WS	Tr30_Tpcr_ATT	1.11	18.47	19.83		19.83	0.000077	0.23	5.11	7.94	0.08
Macone	16.2	Max WS	Tr200_Tpcr_ATT	1.13	18.19	19.91		19.91	0.000153	0.30	3.76	3.75	0.10
Macone	16.2	Max WS	Tr100_Tpcr_ATT	1.12	18.19	19.88		19.89	0.000161	0.31	3.67	3.73	0.10
Macone	16.2	Max WS	Tr30_Tpcr_ATT	1.12	18.19	19.83		19.83	0.000185	0.32	3.47	3.67	0.11
Macone	16.1	Max WS	Tr200_Tpcr_ATT	1.13	18.19	19.90		19.91	0.000382	0.38	3.06	14.24	0.15
Macone	16.1	Max WS	Tr100_Tpcr_ATT	1.12	18.19	19.88		19.89	0.000078	0.38	2.96	13.43	0.09
Macone	16.1	Max WS	Tr30_Tpcr_ATT	1.12	18.19	19.83		19.83	0.000086	0.39	2.86	11.35	0.10
Macone	16.05			Culvert									
Macone	16	Max WS	Tr200_Tpcr_ATT	1.13	18.19	19.83		19.83	0.000044	0.19	6.33	11.66	0.06
Macone	16	Max WS	Tr100_Tpcr_ATT	1.12	18.19	19.80		19.80	0.000047	0.20	6.00	10.50	0.06



HEC-RAS River: Macone Reach: Macone Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Macone	16	Max WS	Tr30_Tpcr_ATT	0.38	18.19	19.74		19.74	0.000007	0.07	5.51	8.46	0.02
Macone	15	Max WS	Tr200_Tpcr_ATT	1.14	18.40	19.82		19.83	0.000066	0.22	5.55	9.90	0.07
Macone	15	Max WS	Tr100_Tpcr_ATT	1.13	18.40	19.79		19.80	0.000073	0.23	5.26	9.24	0.08
Macone	15	Max WS	Tr30_Tpcr_ATT	0.39	18.40	19.74		19.74	0.000011	0.09	4.82	8.12	0.03
Macone	14.99			Lat Struct									
Macone	14.98			Lat Struct									
Macone	14.5	Max WS	Tr200_Tpcr_ATT	1.19	18.17	19.82		19.82	0.000048	0.21	6.83	11.95	0.06
Macone	14.5	Max WS	Tr100_Tpcr_ATT	1.17	18.17	19.79		19.79	0.000052	0.22	6.47	11.56	0.06
Macone	14.5	Max WS	Tr30_Tpcr_ATT	0.56	18.17	19.74		19.74	0.000014	0.11	5.98	10.79	0.03
Macone	14	Max WS	Tr200_Tpcr_ATT	1.22	17.95	19.81		19.81	0.000038	0.20	8.09	13.72	0.05
Macone	14	Max WS	Tr100_Tpcr_ATT	1.22	17.95	19.78		19.78	0.000042	0.21	7.67	13.17	0.06
Macone	14	Max WS	Tr30_Tpcr_ATT	0.73	17.95	19.74		19.74	0.000017	0.13	7.16	12.36	0.04
Macone	13.5	Max WS	Tr200_Tpcr_ATT	1.24	17.98	19.81		19.81	0.000057	0.22	5.93	8.58	0.06
Macone	13.5	Max WS	Tr100_Tpcr_ATT	1.23	17.98	19.78		19.78	0.000062	0.23	5.67	7.92	0.07
Macone	13.5	Max WS	Tr30_Tpcr_ATT	0.79	17.98	19.74		19.74	0.000029	0.15	5.38	7.13	0.05
Macone	13	Max WS	Tr200_Tpcr_ATT	0.71	18.02	19.75	18.50	19.76	0.000994	0.46	1.53	0.65	0.11
Macone	13	Max WS	Tr100_Tpcr_ATT	0.77	18.02	19.72	18.52	19.74	0.001197	0.51	1.51	0.69	0.13
Macone	13	Max WS	Tr30_Tpcr_ATT	0.86	18.02	19.67	18.56	19.69	0.001560	0.59	1.48	0.76	0.15
Macone	12.5	Max WS	Tr200_Tpcr_ATT	0.81	17.95	19.74		19.74	0.000027	0.14	5.76	5.87	0.04
Macone	12.5	Max WS	Tr100_Tpcr_ATT	0.86	17.95	19.71		19.71	0.000033	0.15	5.60	5.70	0.05
Macone	12.5	Max WS	Tr30_Tpcr_ATT	0.93	17.95	19.66		19.66	0.000045	0.18	5.30	5.56	0.06
Macone	12.2	Max WS	Tr200_Tpcr_ATT	0.81	17.89	19.74		19.74	0.000050	0.18	4.41	3.42	0.05
Macone	12.2	Max WS	Tr100_Tpcr_ATT	0.86	17.89	19.71		19.71	0.000061	0.20	4.32	3.38	0.06
Macone	12.2	Max WS	Tr30_Tpcr_ATT	0.94	17.89	19.66		19.66	0.000080	0.23	4.14	3.33	0.06
Macone	12.15			Culvert									
Macone	12.1	Max WS	Tr200_Tpcr_ATT	0.81	17.89	19.71		19.71	0.000053	0.19	4.32	3.39	0.05
Macone	12.1	Max WS	Tr100_Tpcr_ATT	0.86	17.89	19.68		19.68	0.000064	0.20	4.22	3.35	0.06

HEC-RAS River: Macone Reach: Macone Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Macone	12.1	Max WS	Tr30_Tpcr_ATT	0.94	17.89	19.63		19.63	0.000085	0.23	4.05	3.29	0.07
Macone	12	Max WS	Tr200_Tpcr_ATT	0.81	17.95	19.71		19.71	0.000015	0.12	7.35	9.62	0.03
Macone	12	Max WS	Tr100_Tpcr_ATT	0.87	17.95	19.68		19.68	0.000018	0.13	7.08	9.13	0.04
Macone	12	Max WS	Tr30_Tpcr_ATT	0.94	17.95	19.63		19.63	0.000025	0.15	6.62	8.26	0.04
Macone	11.99			Lat Struct									
Macone	11.98			Lat Struct									
Macone	11	Max WS	Tr200_Tpcr_ATT	0.87	17.85	19.71		19.71	0.000005	0.08	12.01	15.67	0.02
Macone	11	Max WS	Tr100_Tpcr_ATT	0.92	17.85	19.68		19.68	0.000007	0.08	11.57	14.75	0.02
Macone	11	Max WS	Tr30_Tpcr_ATT	0.98	17.85	19.63		19.63	0.000009	0.09	10.83	13.11	0.03
Macone	10.5	Max WS	Tr200_Tpcr_ATT	0.98	17.90	19.71		19.71	0.000012	0.11	9.03	12.31	0.03
Macone	10.5	Max WS	Tr100_Tpcr_ATT	1.01	17.90	19.68		19.68	0.000014	0.12	8.68	11.18	0.03
Macone	10.5	Max WS	Tr30_Tpcr_ATT	1.06	17.90	19.63		19.63	0.000018	0.13	8.14	9.13	0.04
Macone	10	Max WS	Tr200_Tpcr_ATT	1.09	17.95	19.71		19.71	0.000045	0.19	6.05	7.89	0.05
Macone	10	Max WS	Tr100_Tpcr_ATT	1.12	17.95	19.68		19.68	0.000051	0.20	5.82	7.45	0.06
Macone	10	Max WS	Tr30_Tpcr_ATT	1.15	17.95	19.62		19.63	0.000062	0.22	5.44	6.66	0.06
Macone	9.9	Max WS	Tr200_Tpcr_ATT	1.09	17.95	19.71	18.25	19.71	0.000020	0.19	6.05	7.89	0.05
Macone	9.9	Max WS	Tr100_Tpcr_ATT	1.12	17.95	19.68	18.26	19.68	0.000023	0.20	5.82	7.45	0.06
Macone	9.9	Max WS	Tr30_Tpcr_ATT	1.15	17.95	19.62	18.26	19.63	0.000028	0.22	5.44	6.65	0.06
Macone	9.8			Bridge									
Macone	9.7	Max WS	Tr200_Tpcr_ATT	1.09	17.95	19.70		19.70	0.000020	0.19	6.01	7.81	0.05
Macone	9.7	Max WS	Tr100_Tpcr_ATT	1.12	17.95	19.67		19.67	0.000023	0.20	5.78	7.36	0.06
Macone	9.7	Max WS	Tr30_Tpcr_ATT	1.15	17.95	19.62		19.62	0.000028	0.22	5.40	6.57	0.06
Macone	9.6	Max WS	Tr200_Tpcr_ATT	1.10	17.95	19.70		19.70	0.000046	0.19	6.01	7.81	0.05
Macone	9.6	Max WS	Tr100_Tpcr_ATT	1.12	17.95	19.67		19.67	0.000052	0.20	5.78	7.36	0.06
Macone	9.6	Max WS	Tr30_Tpcr_ATT	1.15	17.95	19.62		19.62	0.000063	0.22	5.40	6.57	0.06
Macone	9.59			Lat Struct									

HEC-RAS River: Macone Reach: Macone Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Macone	9.58			Lat Struct									
Macone	9	Max WS	Tr200_Tpcr_ATT	1.19	17.95	19.70		19.70	0.000063	0.23	5.67	8.72	0.07
Macone	9	Max WS	Tr100_Tpcr_ATT	1.21	17.95	19.67		19.67	0.000071	0.24	5.41	8.20	0.07
Macone	9	Max WS	Tr30_Tpcr_ATT	1.23	17.95	19.61		19.61	0.000087	0.26	4.98	7.26	0.08
Macone	8.8	Max WS	Tr200_Tpcr_ATT	1.31	17.98	19.69		19.69	0.000066	0.23	5.74	6.30	0.07
Macone	8.8	Max WS	Tr100_Tpcr_ATT	1.32	17.98	19.66		19.66	0.000073	0.24	5.56	5.56	0.07
Macone	8.8	Max WS	Tr30_Tpcr_ATT	1.32	17.98	19.60		19.61	0.000085	0.25	5.26	5.31	0.08
Macone	8.6	Max WS	Tr200_Tpcr_ATT	1.43	18.02	19.69		19.69	0.000068	0.23	6.16	5.63	0.07
Macone	8.6	Max WS	Tr100_Tpcr_ATT	1.43	18.02	19.65		19.66	0.000073	0.24	5.98	5.48	0.07
Macone	8.6	Max WS	Tr30_Tpcr_ATT	1.41	18.02	19.60		19.60	0.000081	0.25	5.67	5.36	0.08
Macone	8.5	Max WS	Tr200_Tpcr_ATT	1.55	18.05	19.68		19.68	0.000066	0.23	6.62	5.92	0.07
Macone	8.5	Max WS	Tr100_Tpcr_ATT	1.54	18.05	19.65		19.65	0.000070	0.24	6.44	5.85	0.07
Macone	8.5	Max WS	Tr30_Tpcr_ATT	1.50	18.05	19.59		19.59	0.000077	0.25	6.11	5.73	0.08
Macone	8	Max WS	Tr200_Tpcr_ATT	1.57	18.00	19.66		19.68	0.001174	0.67	2.34	1.69	0.17
Macone	8	Max WS	Tr100_Tpcr_ATT	1.55	18.00	19.62		19.65	0.001210	0.68	2.29	1.50	0.18
Macone	8	Max WS	Tr30_Tpcr_ATT	1.51	18.00	19.57		19.59	0.001257	0.69	2.20	1.50	0.18
Macone	7.9			Culvert									
Macone	7.8	Max WS	Tr200_Tpcr_ATT	1.57	18.00	19.64		19.66	0.001210	0.68	2.31	1.50	0.17
Macone	7.8	Max WS	Tr100_Tpcr_ATT	1.55	18.00	19.61		19.63	0.001242	0.69	2.26	1.50	0.18
Macone	7.8	Max WS	Tr30_Tpcr_ATT	1.51	18.00	19.55		19.58	0.001290	0.69	2.18	1.50	0.18
Macone	7.79			Lat Struct									
Macone	7.78			Lat Struct									
Macone	7.4	Max WS	Tr200_Tpcr_ATT	1.66	17.67	19.61		19.62	0.000291	0.43	3.95	3.82	0.11
Macone	7.4	Max WS	Tr100_Tpcr_ATT	1.63	17.67	19.57		19.58	0.000302	0.43	3.83	3.58	0.12
Macone	7.4	Max WS	Tr30_Tpcr_ATT	1.58	17.67	19.51		19.52	0.000321	0.44	3.63	3.16	0.12
Macone	7	Max WS	Tr200_Tpcr_ATT	1.75	17.33	19.60		19.60	0.000103	0.30	5.86	4.16	0.08
Macone	7	Max WS	Tr100_Tpcr_ATT	1.71	17.33	19.57		19.57	0.000106	0.30	5.72	4.11	0.08

HEC-RAS River: Macone Reach: Macone Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Macone	7	Max WS	Tr30_Tpcr_ATT	1.64	17.33	19.51		19.51	0.000109	0.30	5.48	4.01	0.08
Macone	6.5			Culvert									
Macone	6	Max WS	Tr200_Tpcr_ATT	1.73	17.60	19.26		19.26	0.000061	0.23	7.70	7.31	0.07
Macone	6	Max WS	Tr100_Tpcr_ATT	1.70	17.60	19.24		19.24	0.000062	0.22	7.57	7.25	0.07
Macone	6	Max WS	Tr30_Tpcr_ATT	1.63	17.60	19.21		19.21	0.000062	0.22	7.33	7.15	0.07
Macone	5.99			Lat Struct									
Macone	5.98			Lat Struct									
Macone	5.5	Max WS	Tr200_Tpcr_ATT	1.73	17.67	19.25		19.26	0.000079	0.25	6.84	6.37	0.08
Macone	5.5	Max WS	Tr100_Tpcr_ATT	1.70	17.67	19.23		19.24	0.000079	0.25	6.72	6.32	0.08
Macone	5.5	Max WS	Tr30_Tpcr_ATT	1.63	17.67	19.20		19.20	0.000079	0.25	6.52	6.24	0.08
Macone	5	Max WS	Tr200_Tpcr_ATT	1.73	17.65	19.25		19.25	0.000106	0.29	5.99	5.40	0.09
Macone	5	Max WS	Tr100_Tpcr_ATT	1.70	17.65	19.23		19.23	0.000106	0.29	5.89	5.36	0.09
Macone	5	Max WS	Tr30_Tpcr_ATT	1.63	17.65	19.19		19.20	0.000106	0.28	5.72	5.30	0.09
Macone	4	Max WS	Tr200_Tpcr_ATT	1.73	17.65	19.25		19.25	0.000034	0.18	9.45	7.74	0.05
Macone	4	Max WS	Tr100_Tpcr_ATT	1.70	17.65	19.23		19.23	0.000034	0.18	9.31	7.70	0.05
Macone	4	Max WS	Tr30_Tpcr_ATT	1.63	17.65	19.20		19.20	0.000034	0.18	9.06	7.63	0.05
Macone	3.55	Max WS	Tr200_Tpcr_ATT	3.44	17.72	19.22		19.23	0.000241	0.46	7.54	6.77	0.14
Macone	3.55	Max WS	Tr100_Tpcr_ATT	3.39	17.72	19.20		19.21	0.000245	0.46	7.41	6.73	0.14
Macone	3.55	Max WS	Tr30_Tpcr_ATT	3.29	17.72	19.17		19.18	0.000251	0.46	7.19	6.65	0.14
Macone	3.1	Max WS	Tr200_Tpcr_ATT	3.44	17.80	19.18		19.20	0.000541	0.62	5.56	5.79	0.20
Macone	3.1	Max WS	Tr100_Tpcr_ATT	3.39	17.80	19.16		19.18	0.000555	0.62	5.45	5.74	0.20
Macone	3.1	Max WS	Tr30_Tpcr_ATT	3.29	17.80	19.13		19.15	0.000578	0.63	5.26	5.67	0.21
Macone	3	Max WS	Tr200_Tpcr_ATT	3.44	17.53	19.18		19.20	0.000553	0.66	5.23	3.82	0.18
Macone	3	Max WS	Tr100_Tpcr_ATT	3.38	17.53	19.16		19.18	0.000556	0.66	5.16	3.82	0.18
Macone	3	Max WS	Tr30_Tpcr_ATT	3.29	17.53	19.12		19.14	0.000561	0.65	5.03	3.82	0.18
Macone	2.9			Culvert									

HEC-RAS River: Macone Reach: Macone Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Macone	2.8	Max WS	Tr200_Tpcr_ATT	3.44	17.53	19.17		19.19	0.000563	0.66	5.19	3.82	0.18
Macone	2.8	Max WS	Tr100_Tpcr_ATT	3.38	17.53	19.15		19.17	0.000566	0.66	5.12	3.82	0.18
Macone	2.8	Max WS	Tr30_Tpcr_ATT	3.28	17.53	19.11		19.14	0.000572	0.66	4.99	3.82	0.18
Macone	2	Max WS	Tr200_Tpcr_ATT	3.44	17.75	19.16		19.17	0.000352	0.51	6.73	7.04	0.17
Macone	2	Max WS	Tr100_Tpcr_ATT	3.38	17.75	19.14		19.16	0.000360	0.51	6.60	6.98	0.17
Macone	2	Max WS	Tr30_Tpcr_ATT	3.28	17.75	19.11		19.12	0.000375	0.52	6.36	6.87	0.17
Macone	1.99			Lat Struct									
Macone	1.98			Lat Struct									
Macone	1.7	Max WS	Tr200_Tpcr_ATT	3.44	17.48	19.13		19.14	0.000280	0.48	7.18	6.80	0.15
Macone	1.7	Max WS	Tr100_Tpcr_ATT	3.38	17.48	19.11		19.12	0.000286	0.48	7.04	6.74	0.15
Macone	1.7	Max WS	Tr30_Tpcr_ATT	3.28	17.48	19.08		19.09	0.000295	0.48	6.81	6.64	0.15
Macone	1.4	Max WS	Tr200_Tpcr_ATT	3.44	17.21	19.11		19.12	0.000240	0.46	7.51	6.61	0.14
Macone	1.4	Max WS	Tr100_Tpcr_ATT	3.38	17.21	19.09		19.10	0.000244	0.46	7.38	6.56	0.14
Macone	1.4	Max WS	Tr30_Tpcr_ATT	3.28	17.21	19.05		19.06	0.000251	0.46	7.14	6.46	0.14
Macone	1.2	Max WS	Tr200_Tpcr_ATT	3.44	16.94	19.08		19.09	0.000221	0.45	7.72	6.48	0.13
Macone	1.2	Max WS	Tr100_Tpcr_ATT	3.38	16.94	19.06		19.07	0.000224	0.45	7.59	6.42	0.13
Macone	1.2	Max WS	Tr30_Tpcr_ATT	3.28	16.94	19.03		19.04	0.000230	0.45	7.35	6.32	0.13
Macone	1	Max WS	Tr200_Tpcr_ATT	3.44	16.80	19.07		19.08	0.000217	0.44	7.78	6.41	0.13
Macone	1	Max WS	Tr100_Tpcr_ATT	3.38	16.80	19.05		19.06	0.000220	0.44	7.64	6.36	0.13
Macone	1	Max WS	Tr30_Tpcr_ATT	3.28	16.80	19.02		19.03	0.000225	0.44	7.41	6.26	0.13
Macone	0.5	Max WS	Tr200_Tpcr_ATT	3.44	17.09	19.05		19.08	0.000631	0.92	4.14	3.08	0.21
Macone	0.5	Max WS	Tr100_Tpcr_ATT	3.38	17.09	19.03		19.06	0.000639	0.92	4.08	3.08	0.21
Macone	0.5	Max WS	Tr30_Tpcr_ATT	3.28	17.09	18.99		19.02	0.000652	0.92	3.96	3.08	0.21
Macone	0.4			Culvert									
Macone	0.35	Max WS	Tr200_Tpcr_ATT	3.44	17.09	18.64		18.71	0.001769	1.32	2.88	3.08	0.34
Macone	0.35	Max WS	Tr100_Tpcr_ATT	3.38	17.09	18.62		18.70	0.001810	1.33	2.83	3.08	0.34
Macone	0.35	Max WS	Tr30_Tpcr_ATT	3.28	17.09	18.59		18.67	0.001889	1.34	2.73	3.08	0.35

HEC-RAS River: Macone Reach: Macone Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Macone	0.3	Max WS	Tr200_Tpcr_ATT	3.44	17.09	18.64	18.23	18.71	0.001771	1.32	2.88	3.08	0.34
Macone	0.3	Max WS	Tr100_Tpcr_ATT	3.38	17.09	18.62	18.23	18.70	0.001811	1.33	2.83	3.08	0.34
Macone	0.3	Max WS	Tr30_Tpcr_ATT	3.28	17.09	18.59	18.22	18.66	0.001892	1.34	2.73	3.08	0.35
Macone	0.25			Inl Struct									
Macone	0.2	Max WS	Tr200_Tpcr_ATT	3.44	17.09	18.21	18.23	18.49	0.009509	2.47	1.57	3.08	0.75
Macone	0.2	Max WS	Tr100_Tpcr_ATT	3.38	17.09	18.21	18.23	18.48	0.009466	2.46	1.55	3.08	0.75
Macone	0.2	Max WS	Tr30_Tpcr_ATT	3.28	17.09	18.20	18.22	18.47	0.009384	2.43	1.52	3.08	0.74
Macone	0.1	Max WS	Tr200_Tpcr_ATT	3.44	17.09	18.20	18.23	18.49	0.010366	2.55	1.52	3.08	0.78
Macone	0.1	Max WS	Tr100_Tpcr_ATT	3.38	17.09	18.19	18.23	18.49	0.010324	2.54	1.50	3.08	0.78
Macone	0.1	Max WS	Tr30_Tpcr_ATT	3.28	17.09	18.18	18.22	18.47	0.010242	2.51	1.47	3.08	0.77

## **Scenario B**

- **Rio di Fucecchio**
- **Torrente Vincio**

# **Scenario B**

**Tr 200, 100 e 30 anni**

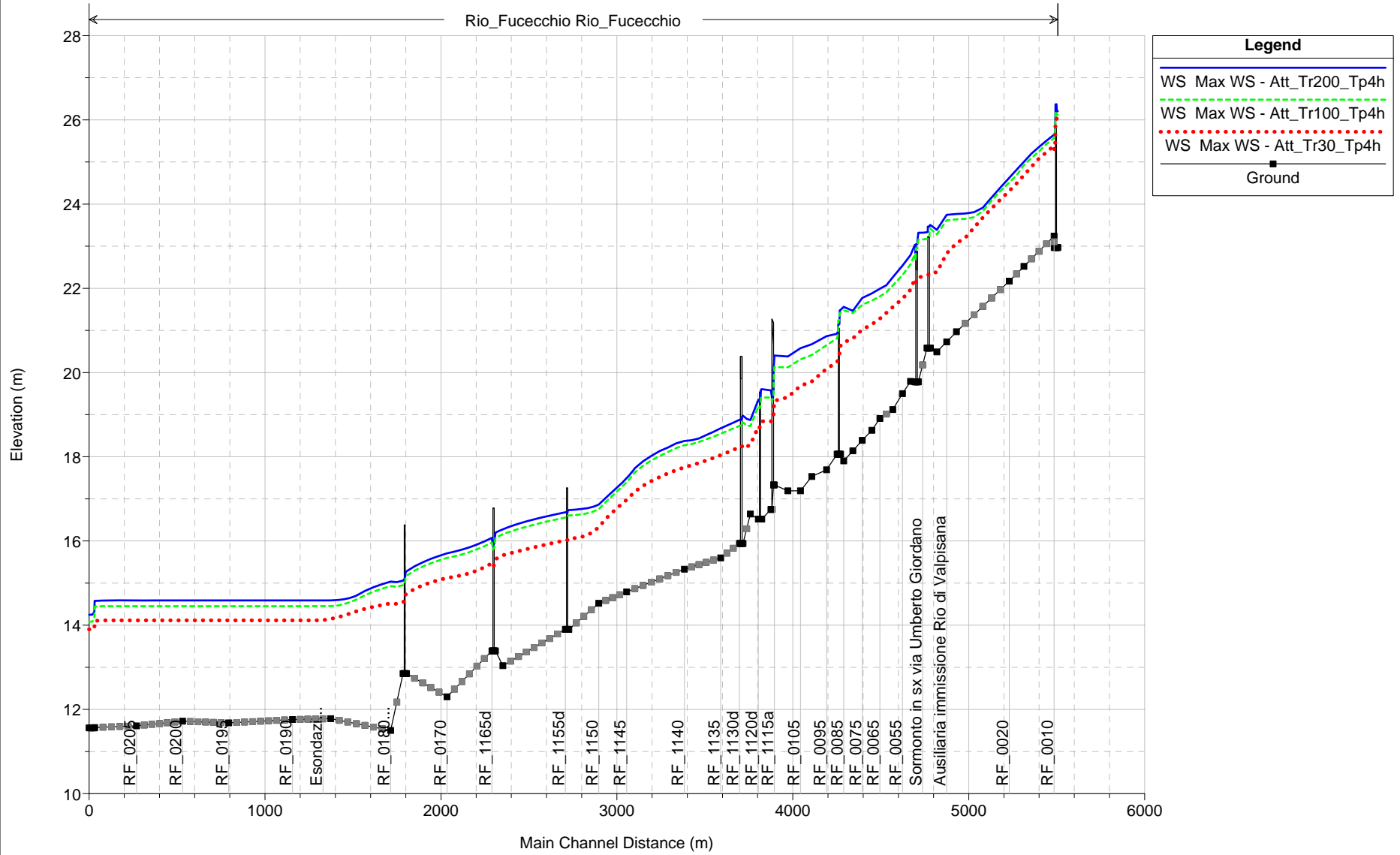
## **RIO DI FUCECCHIO**

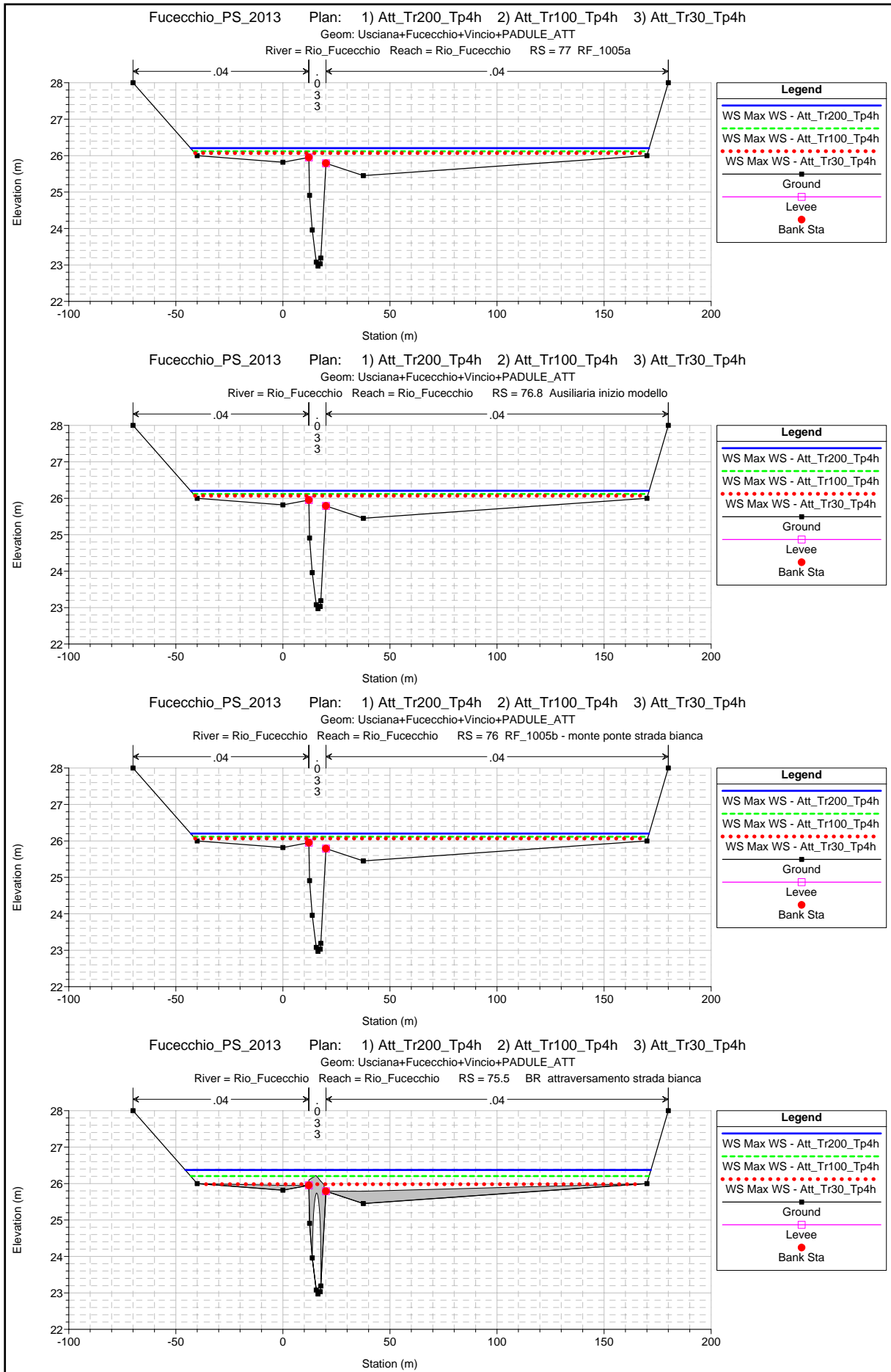
- **Profili**
- **Sezioni**
- **Tabelle di Output**

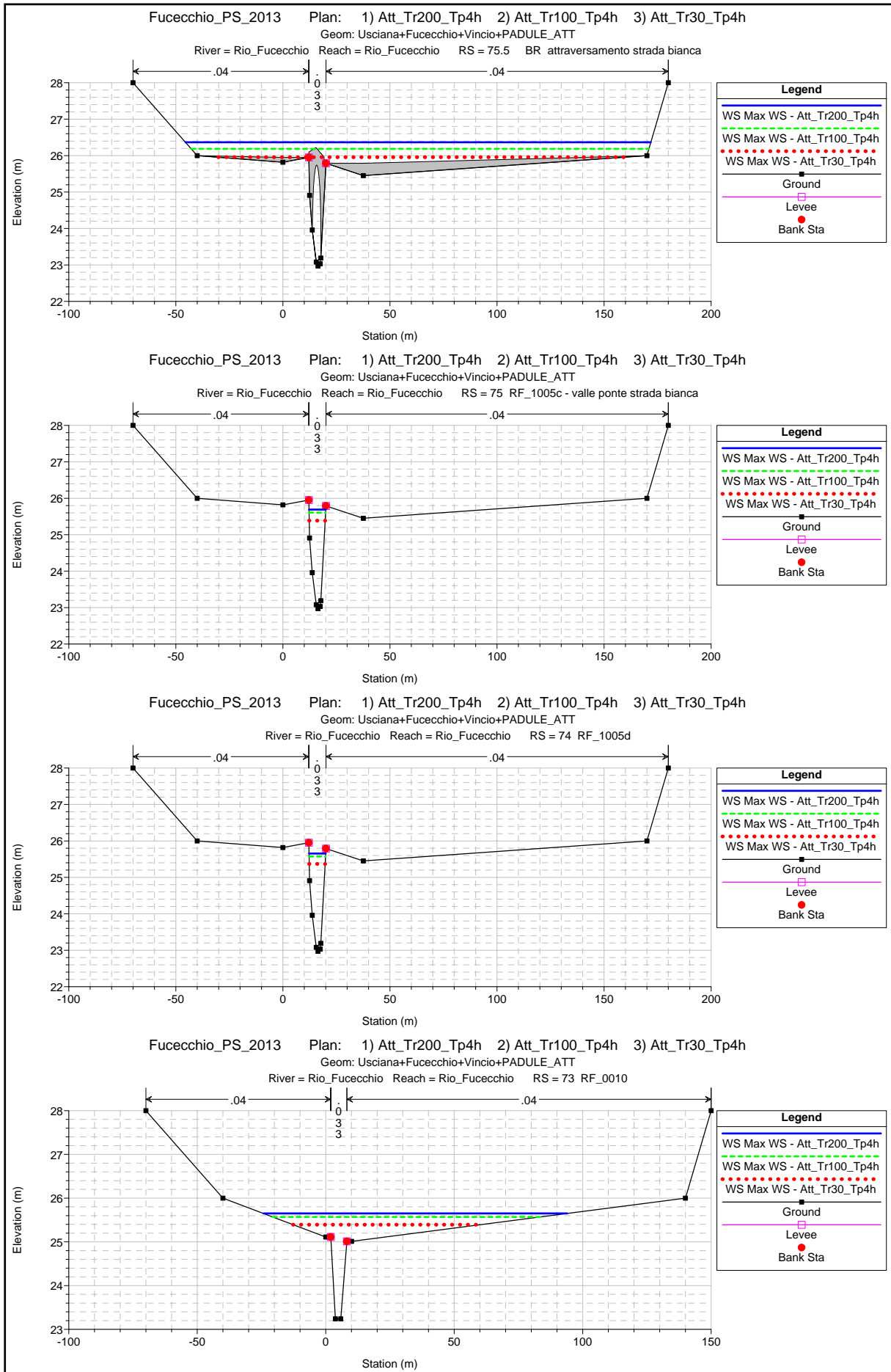


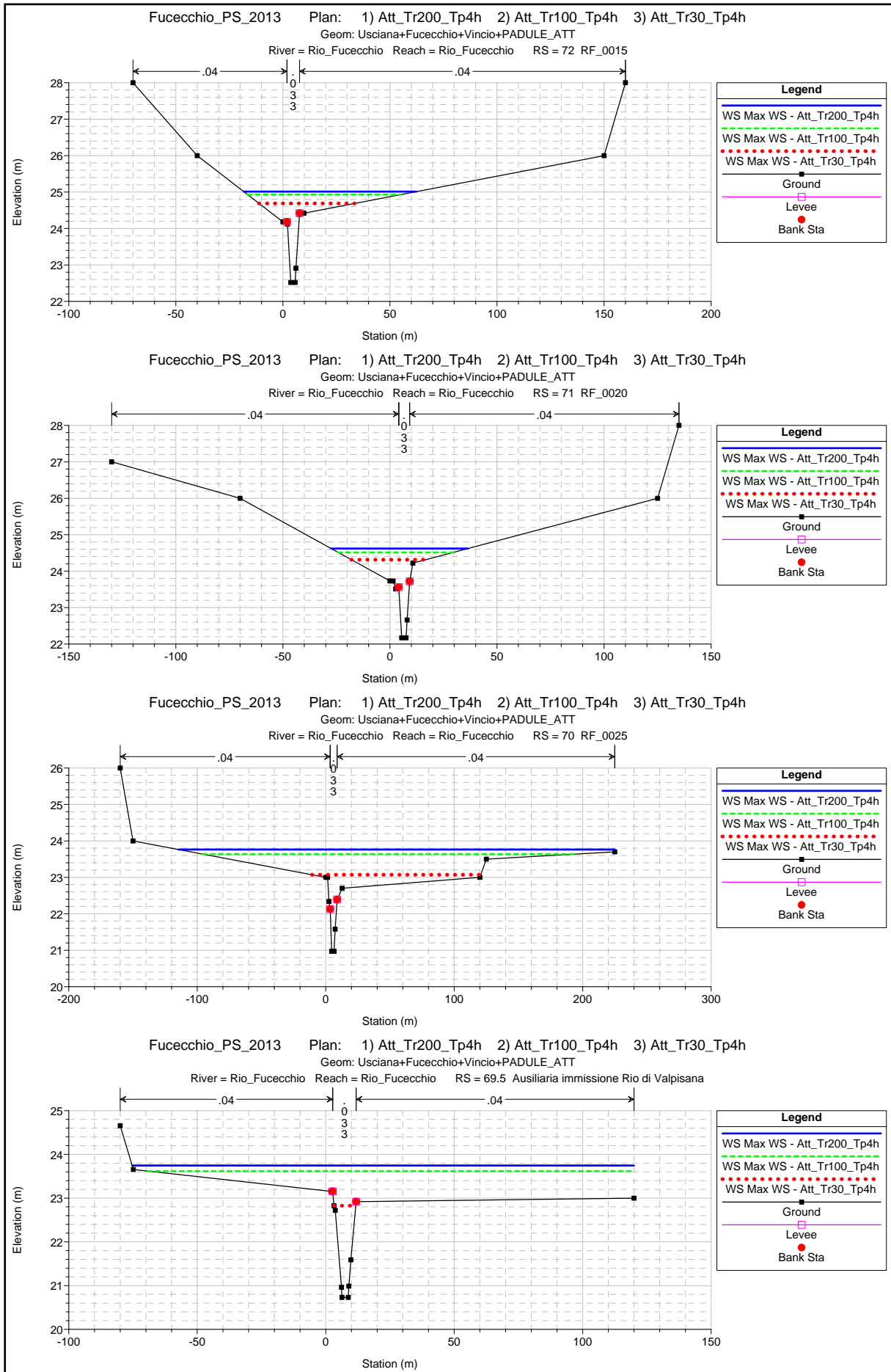
Fucecchio\_PS\_2013 Plan: 1) Att\_Tr200\_Tp4h 2) Att\_Tr100\_Tp4h 3) Att\_Tr30\_Tp4h

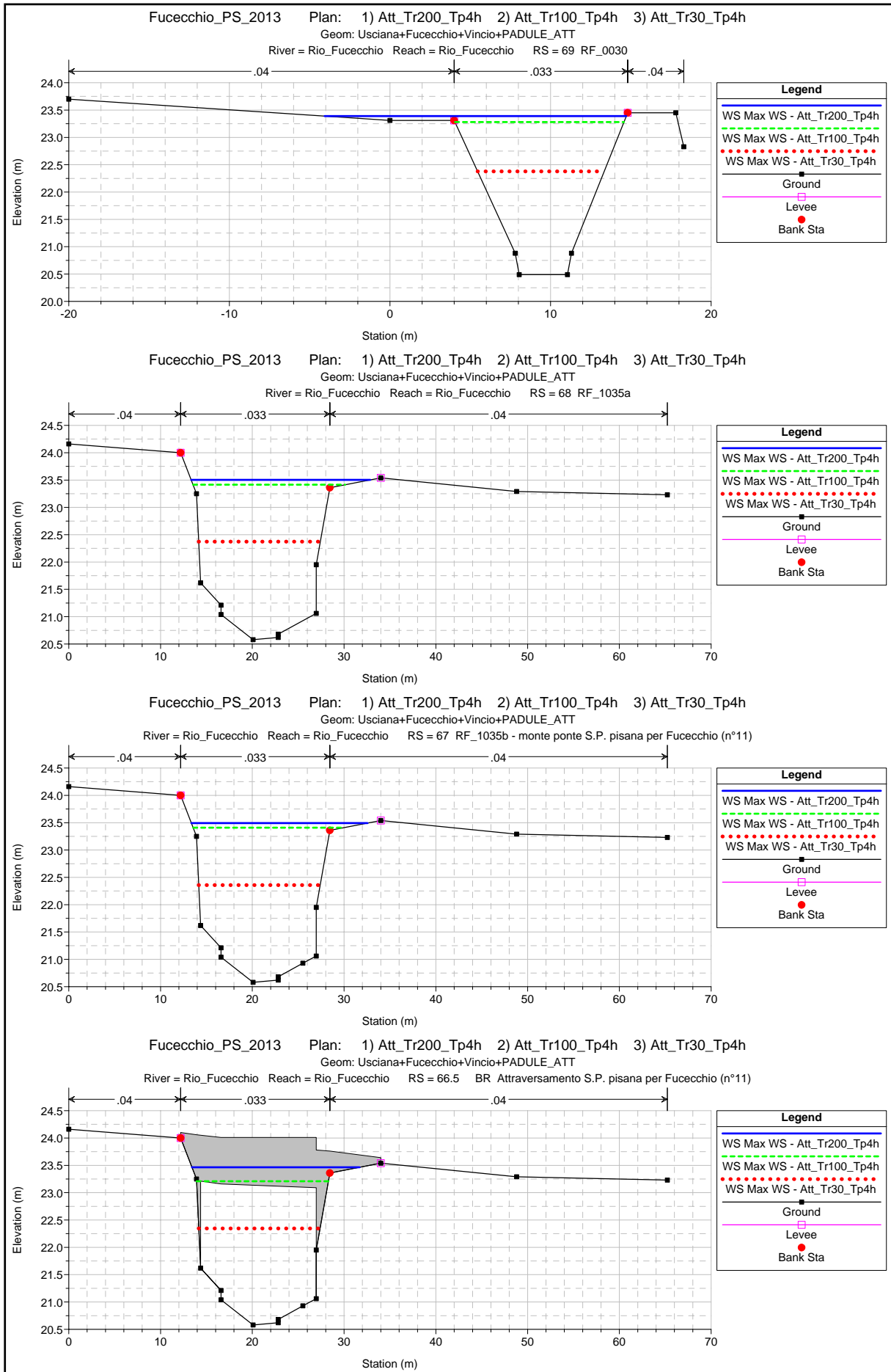
Geom: Usciana+Fucecchio+Vincio+PADULE\_ATT

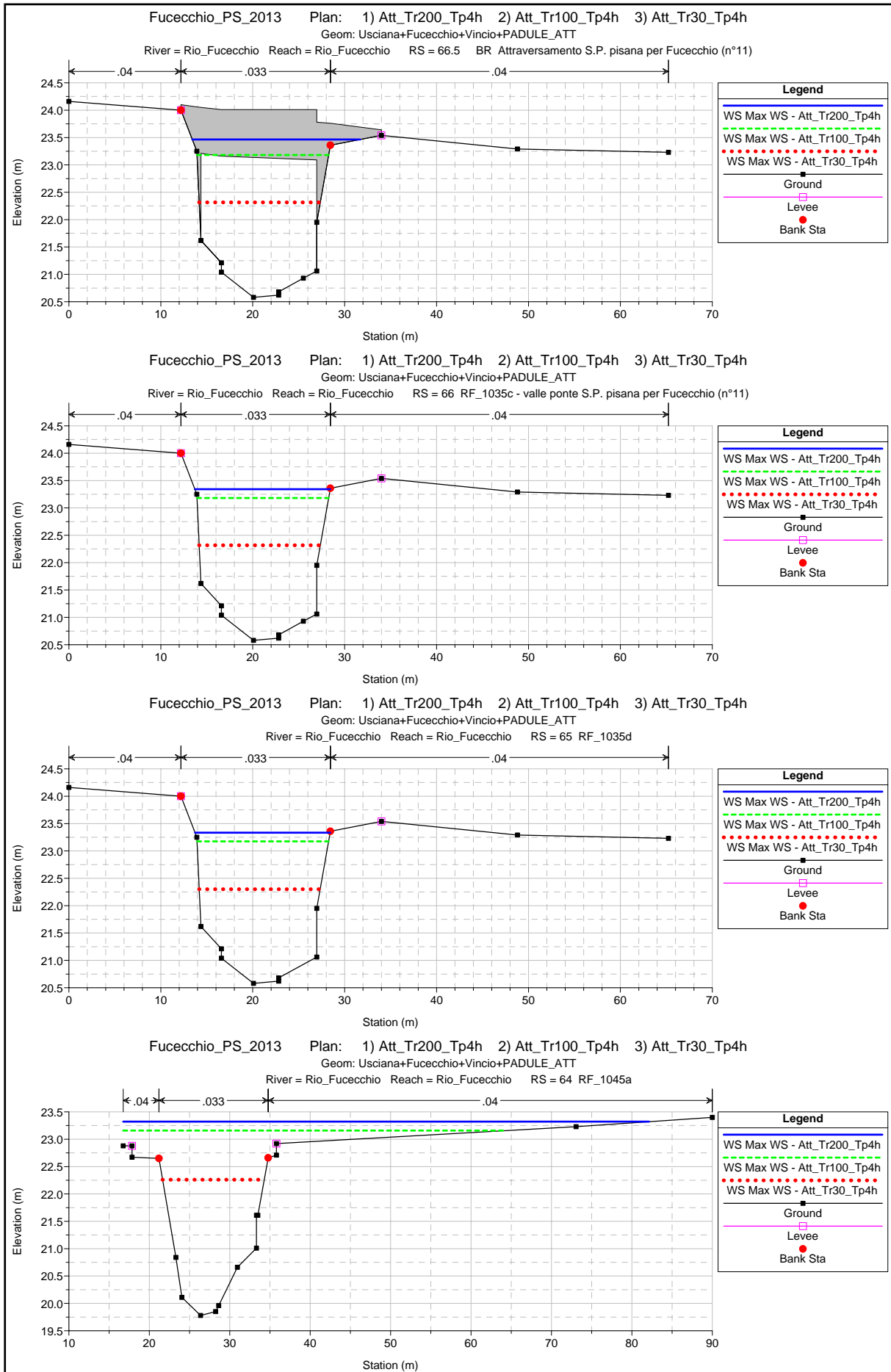


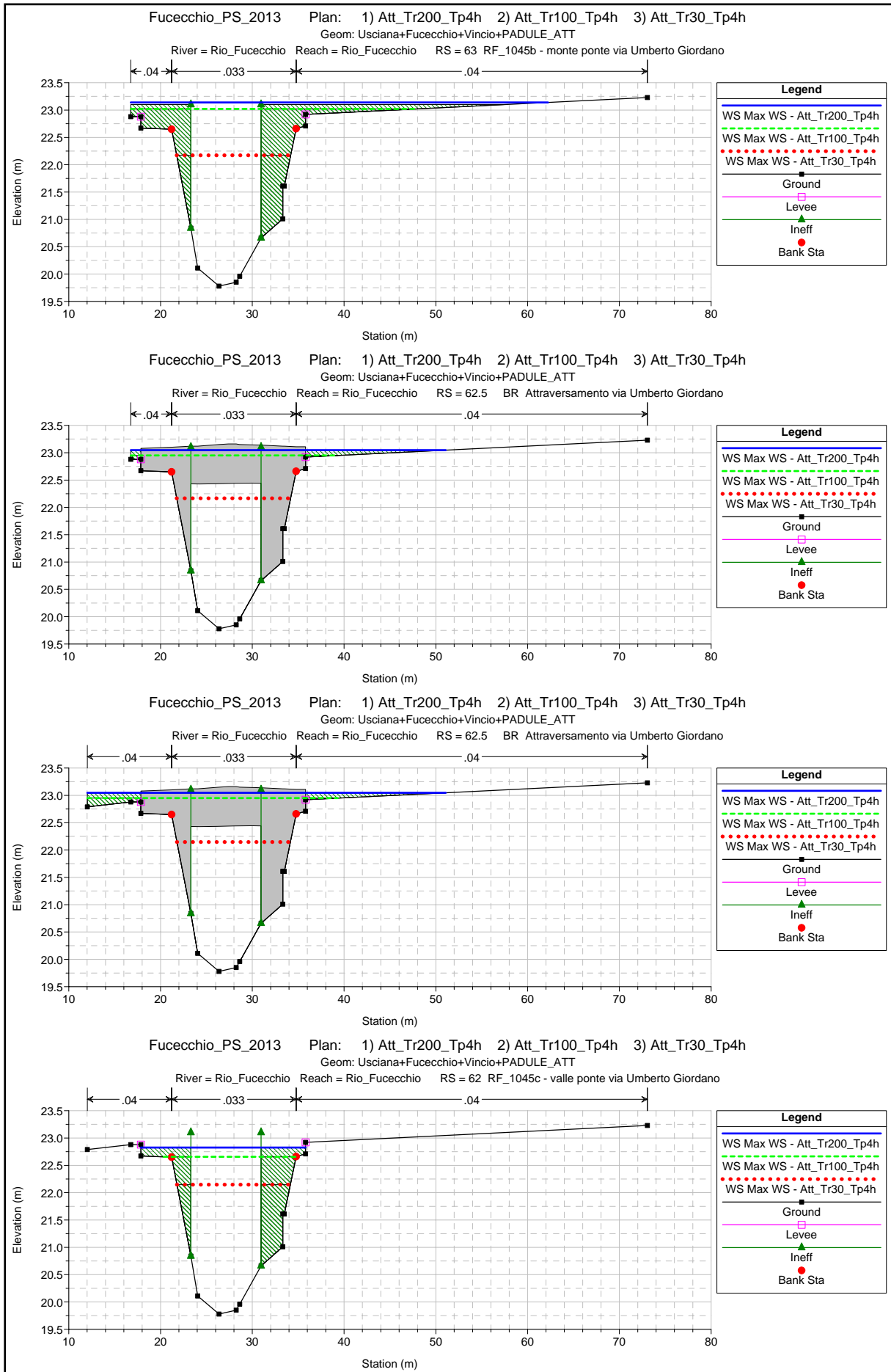


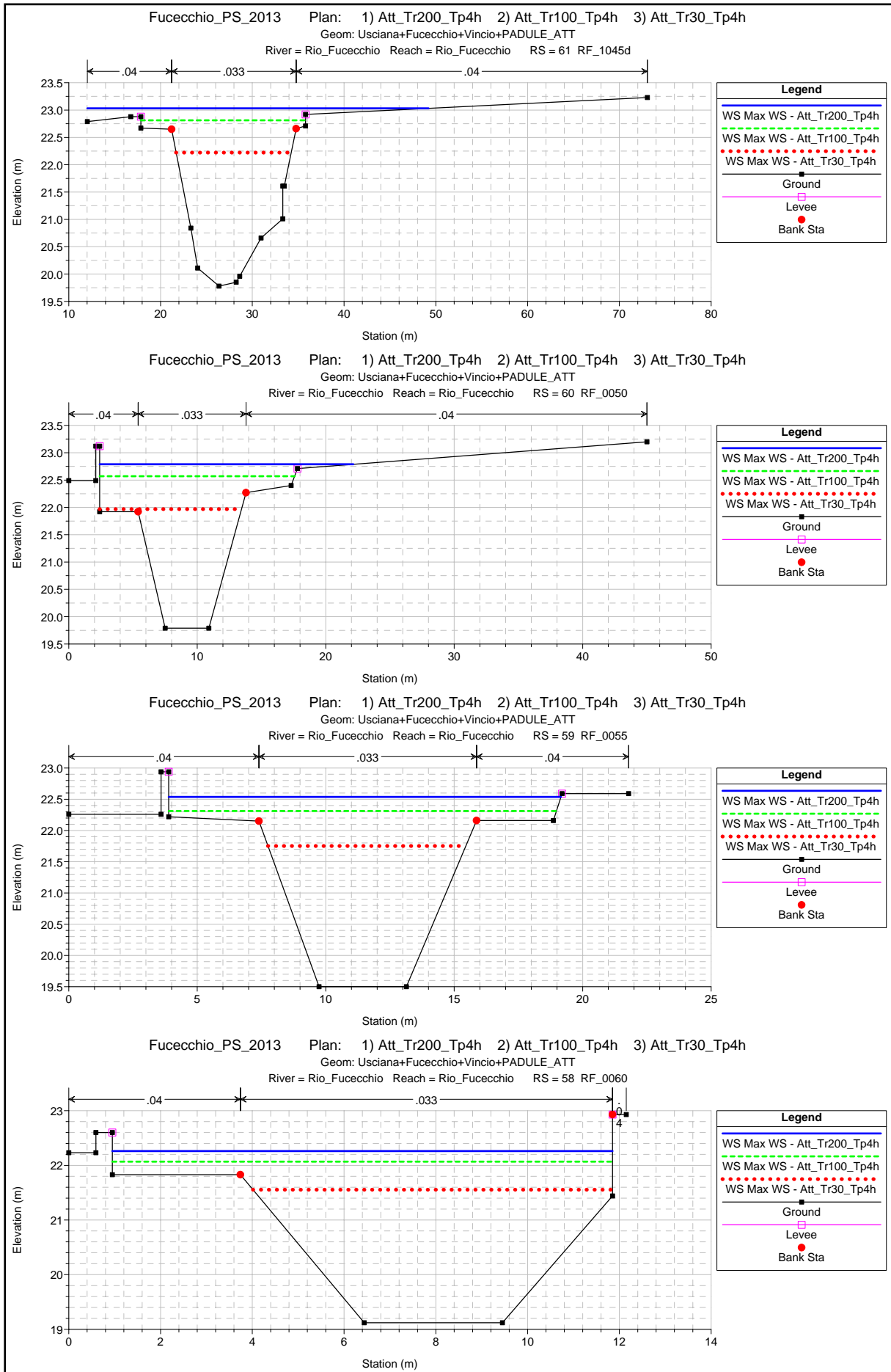




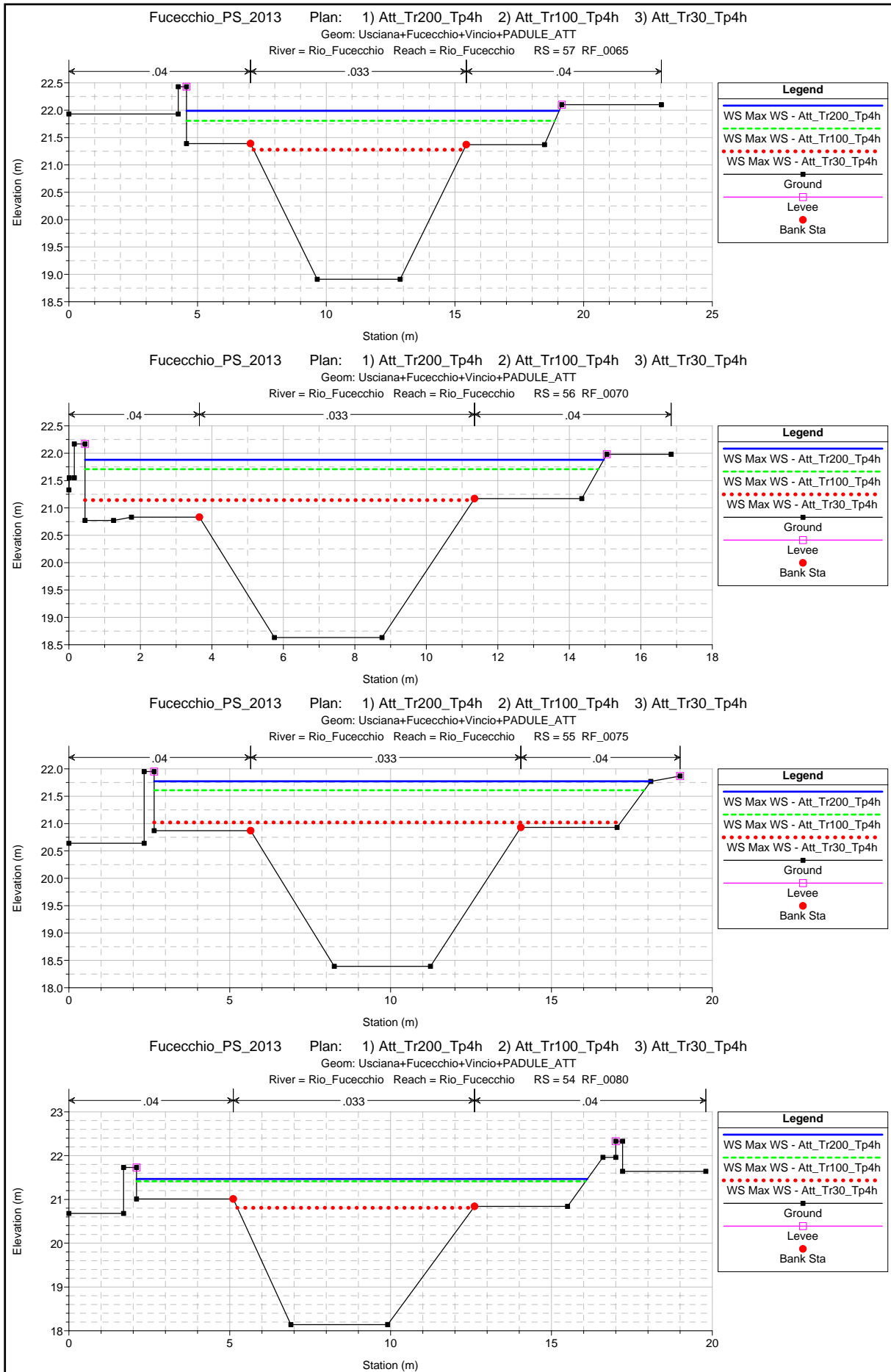


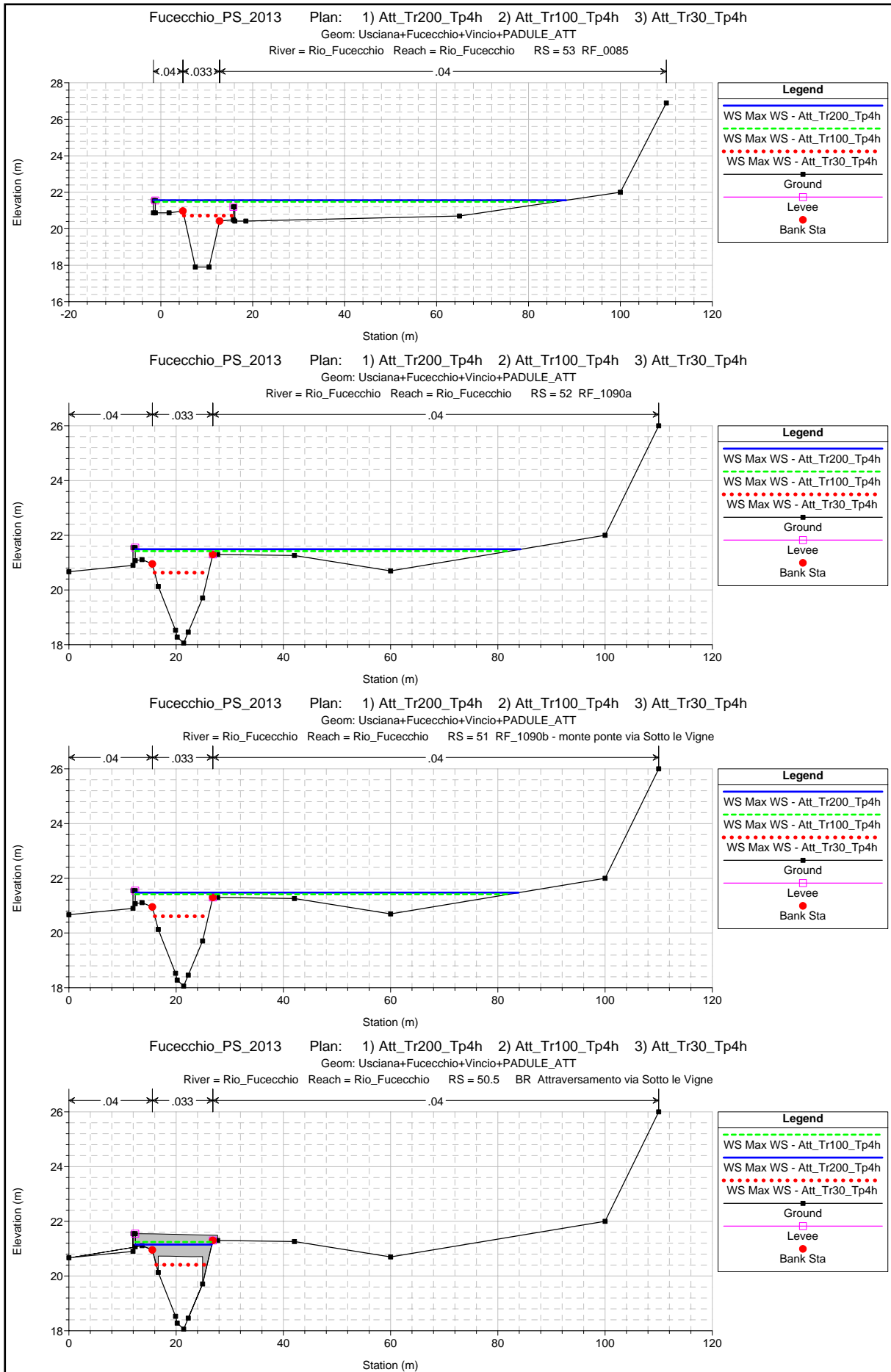


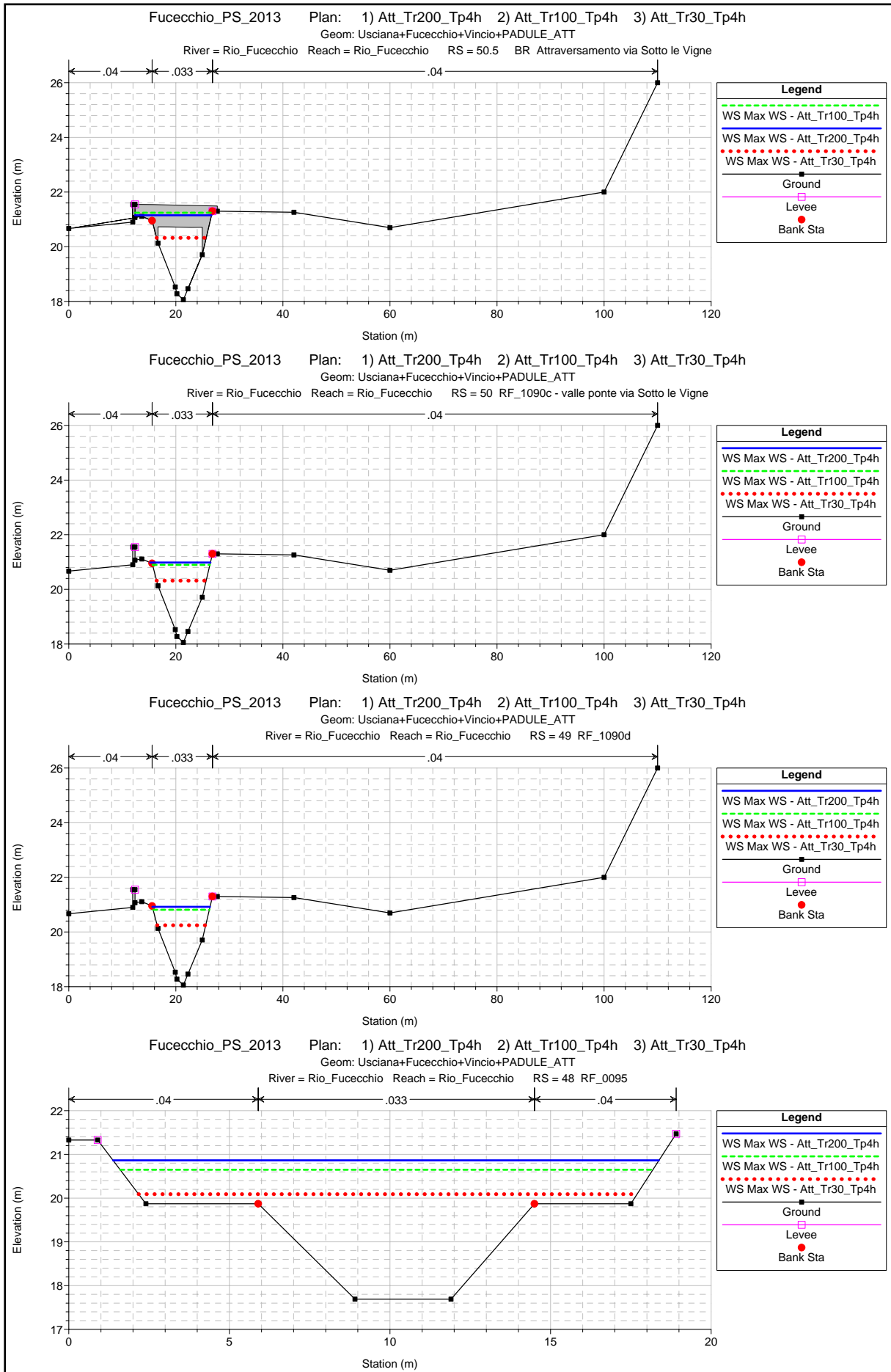


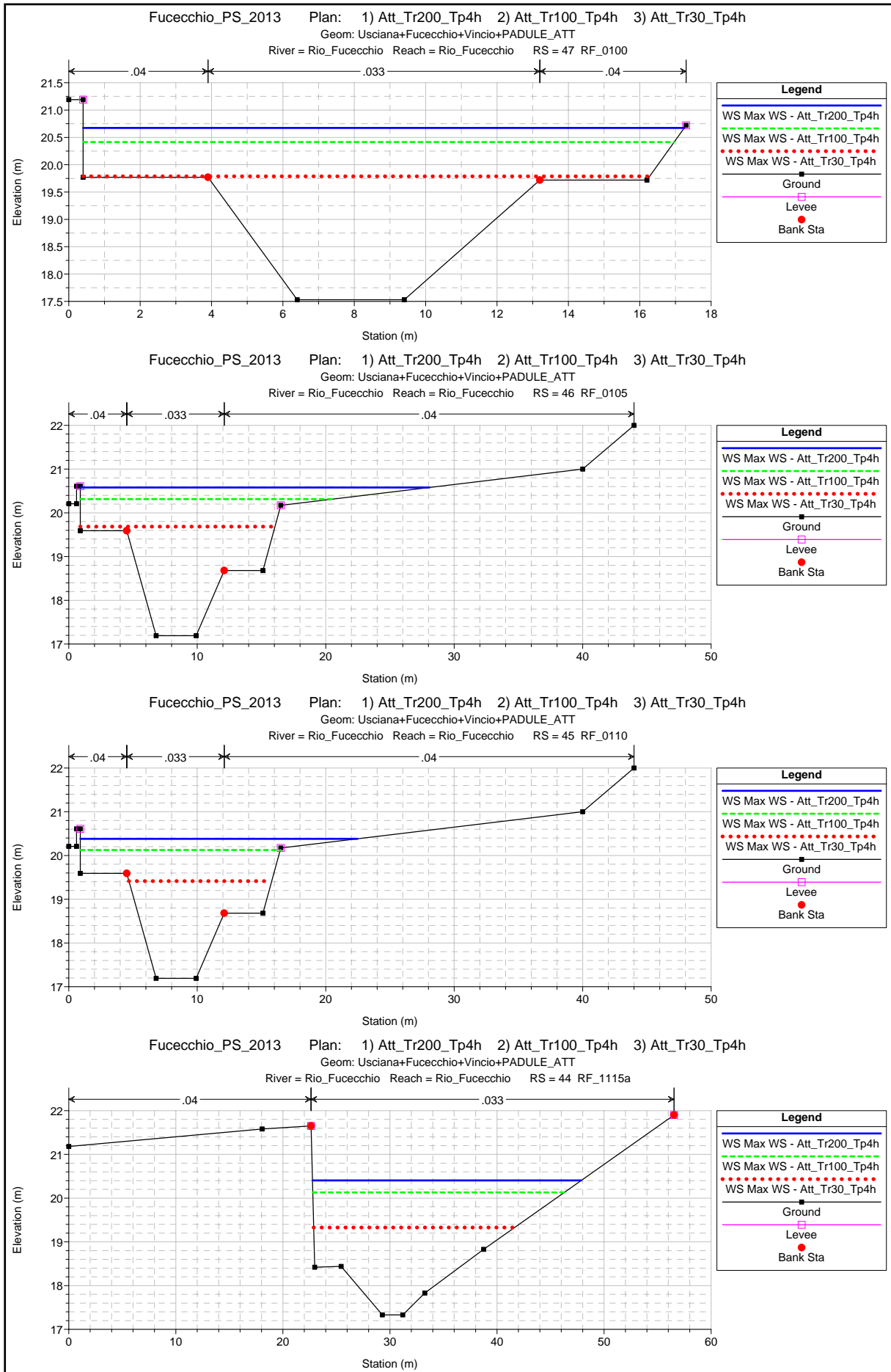


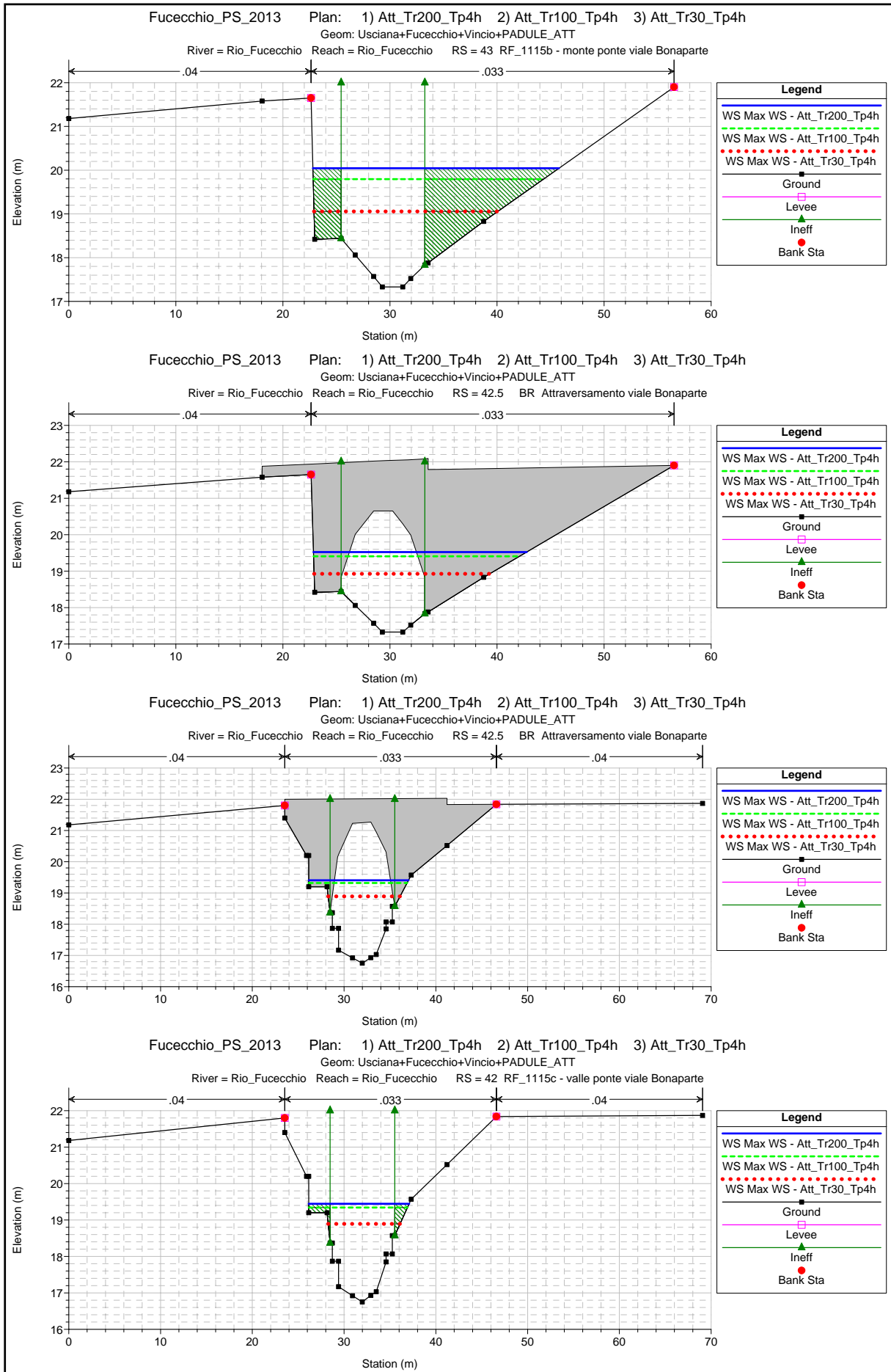


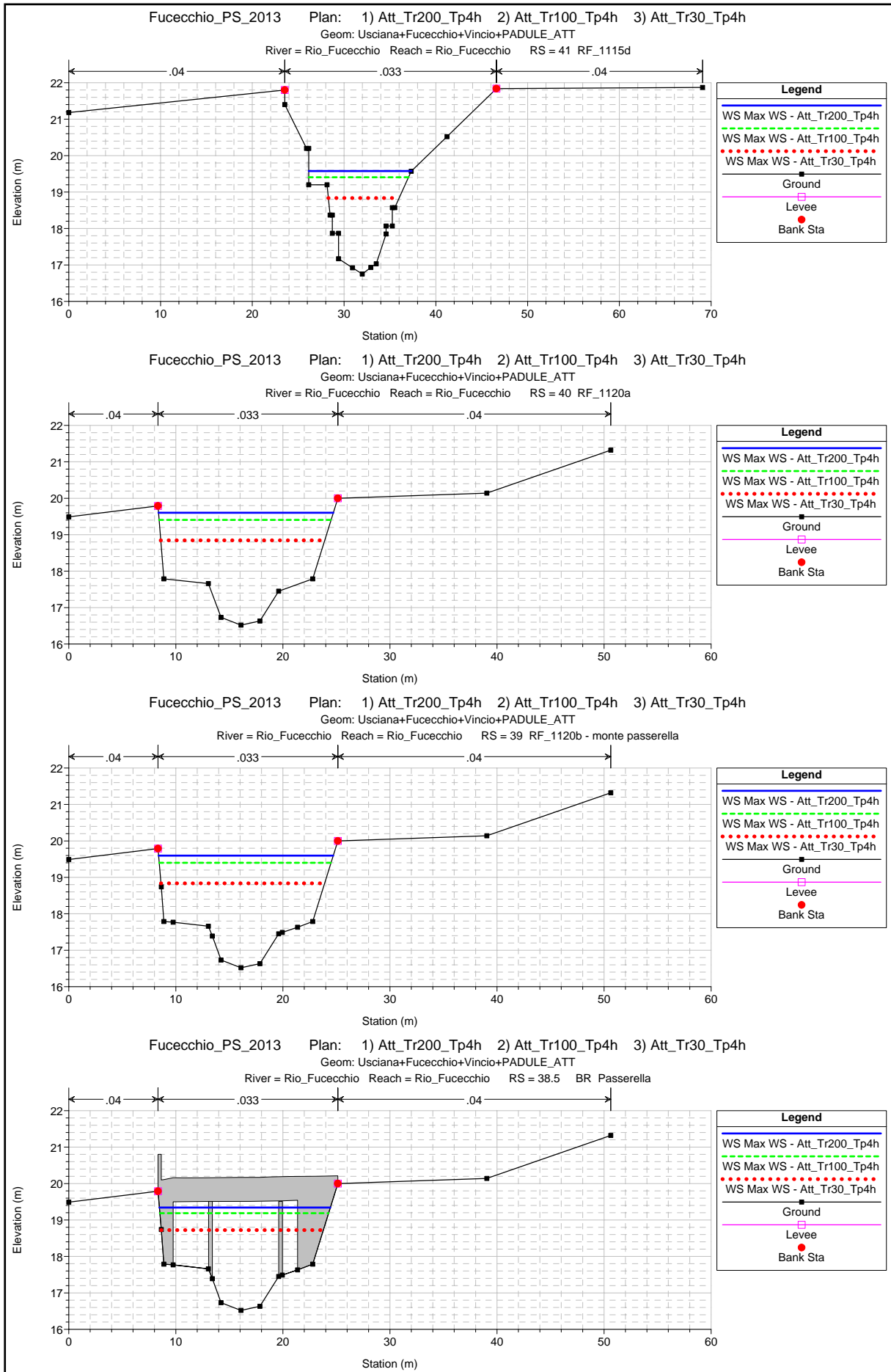


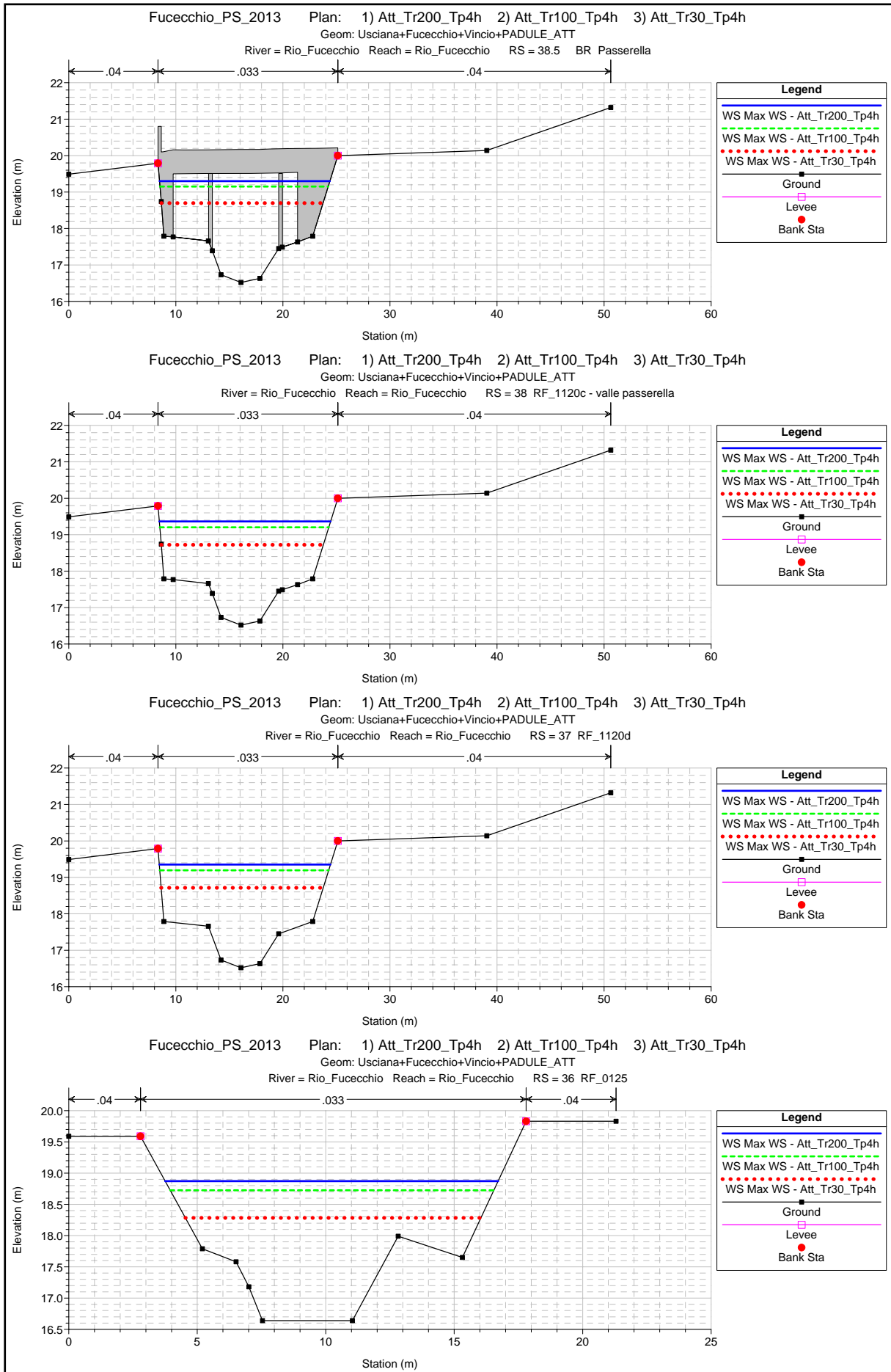


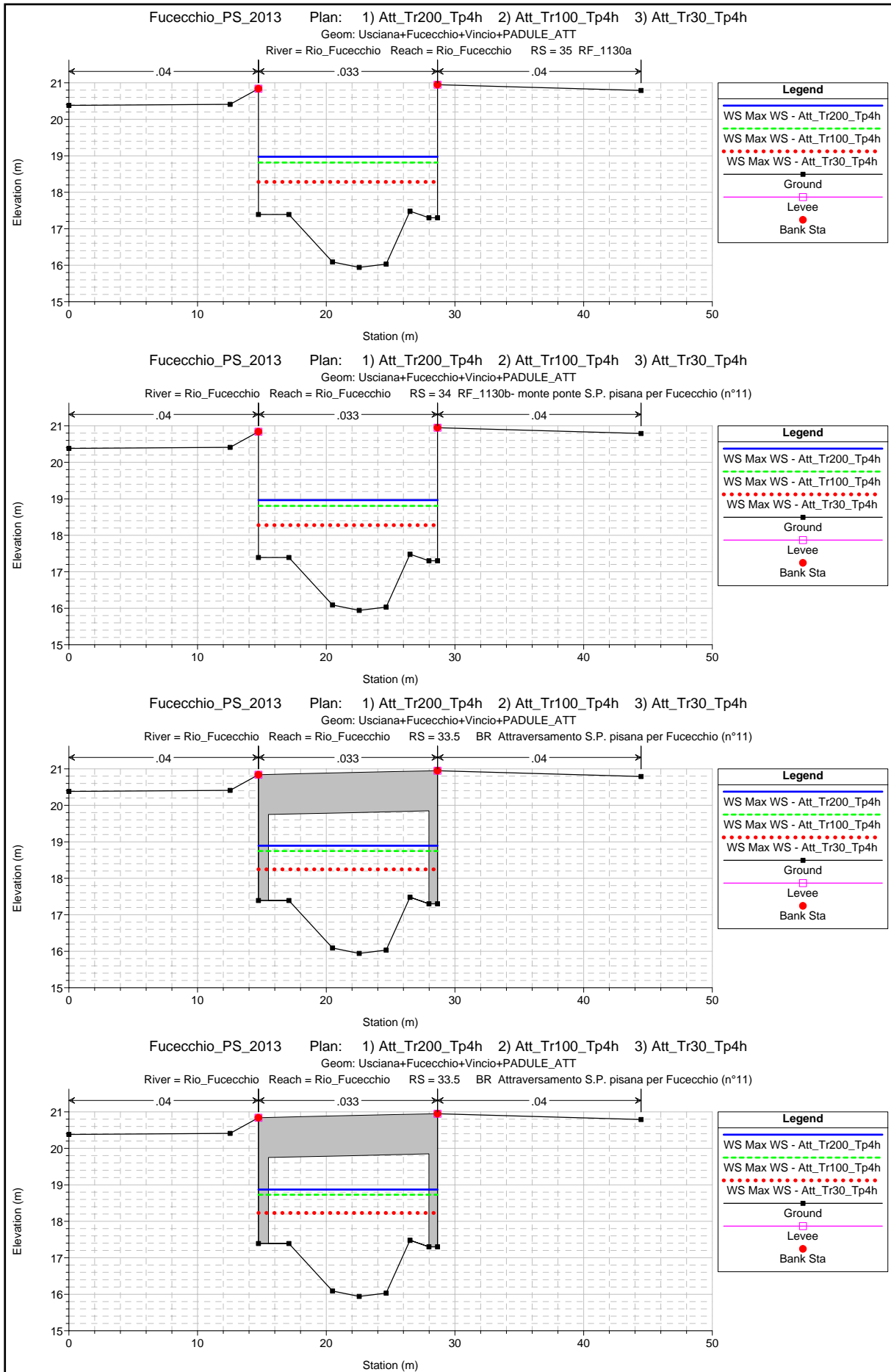




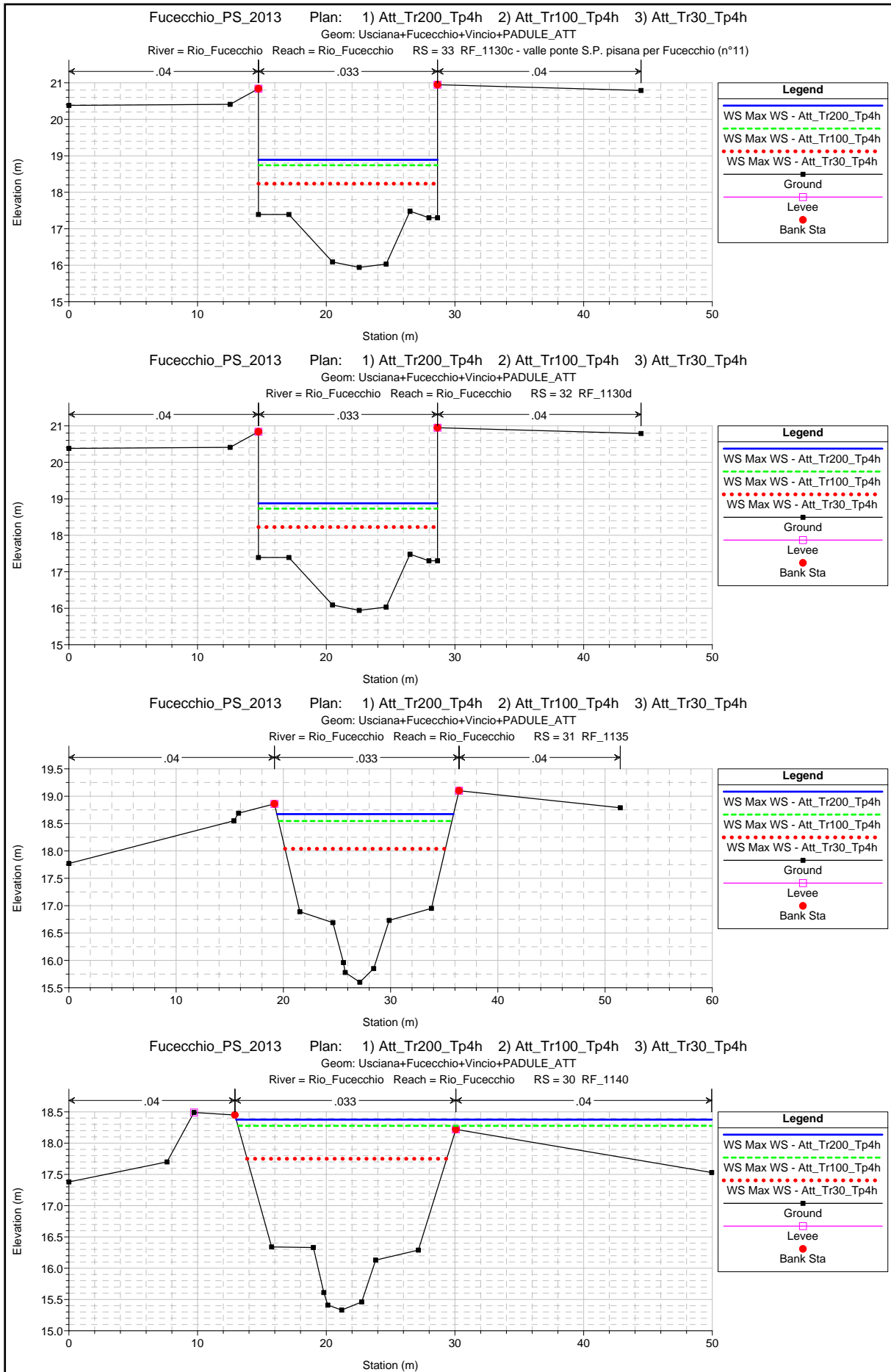


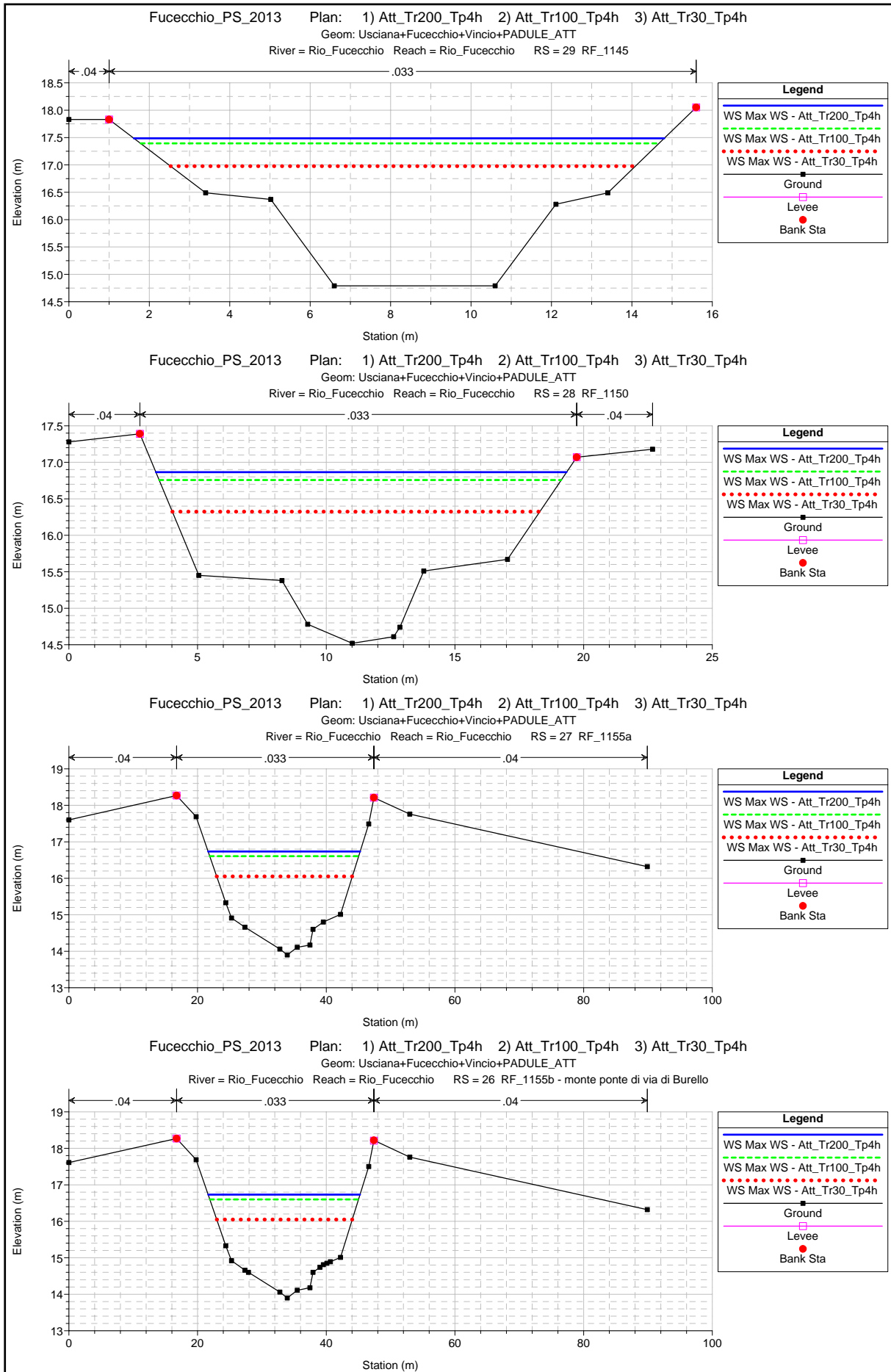


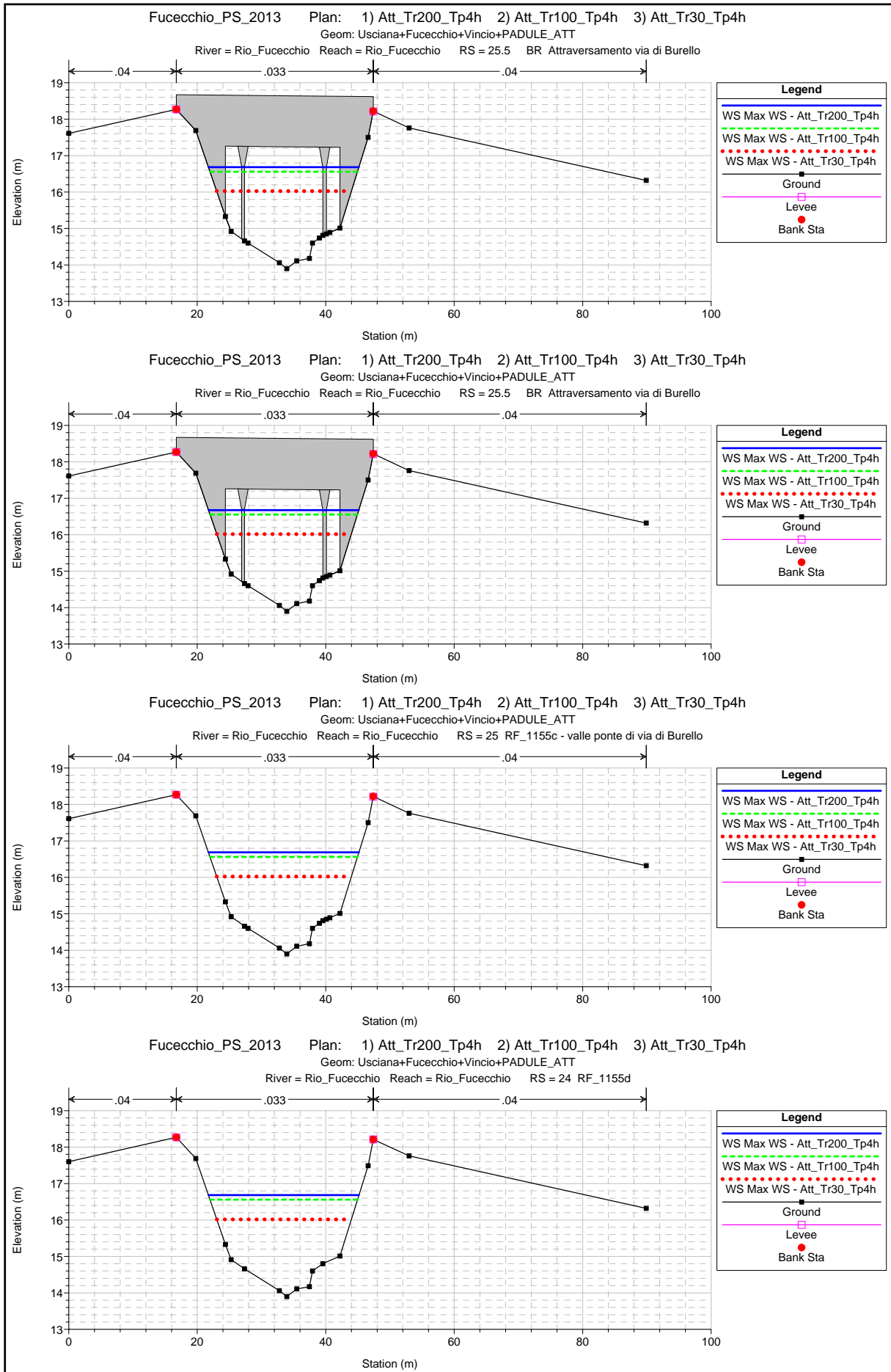


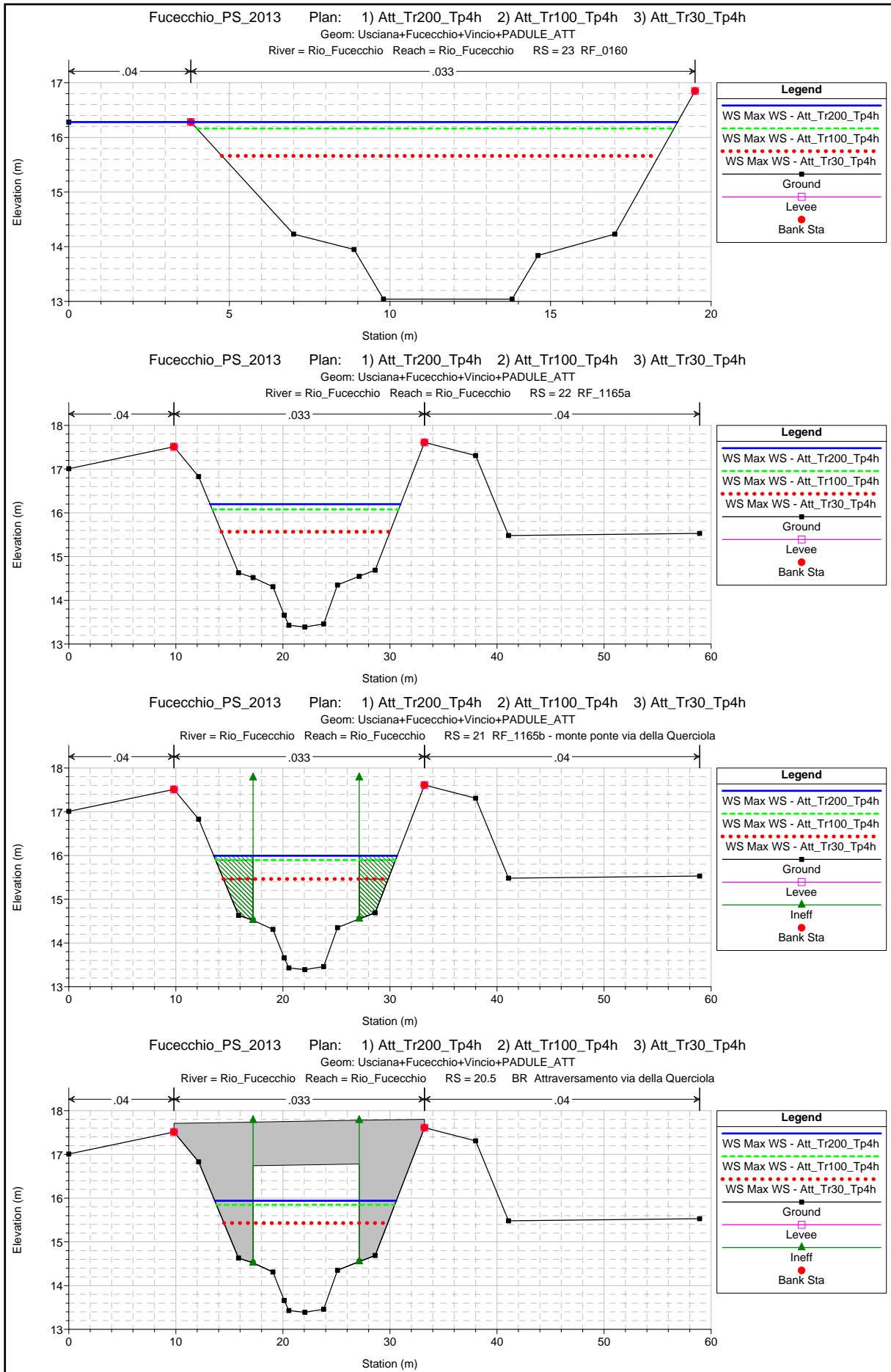


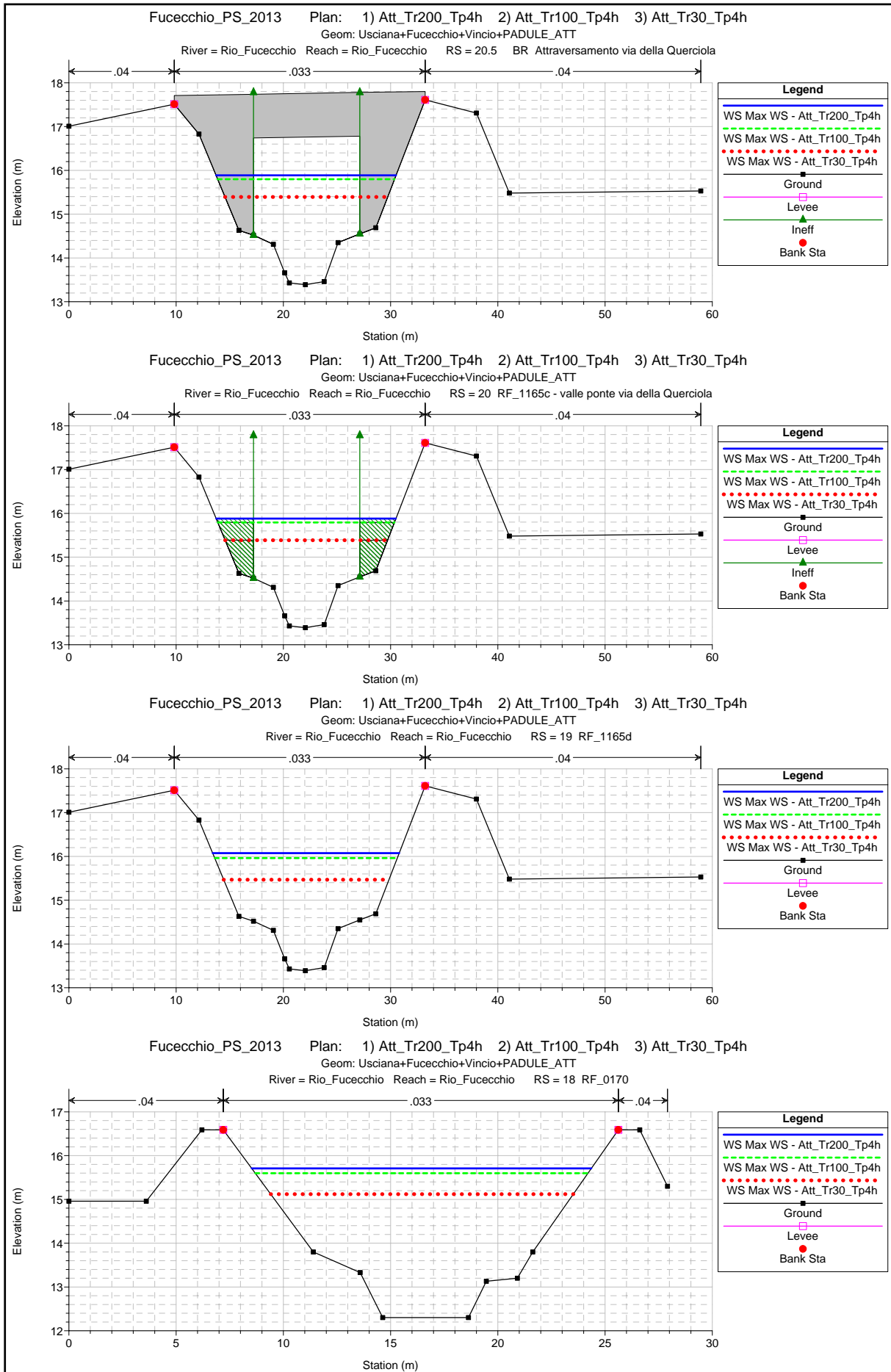


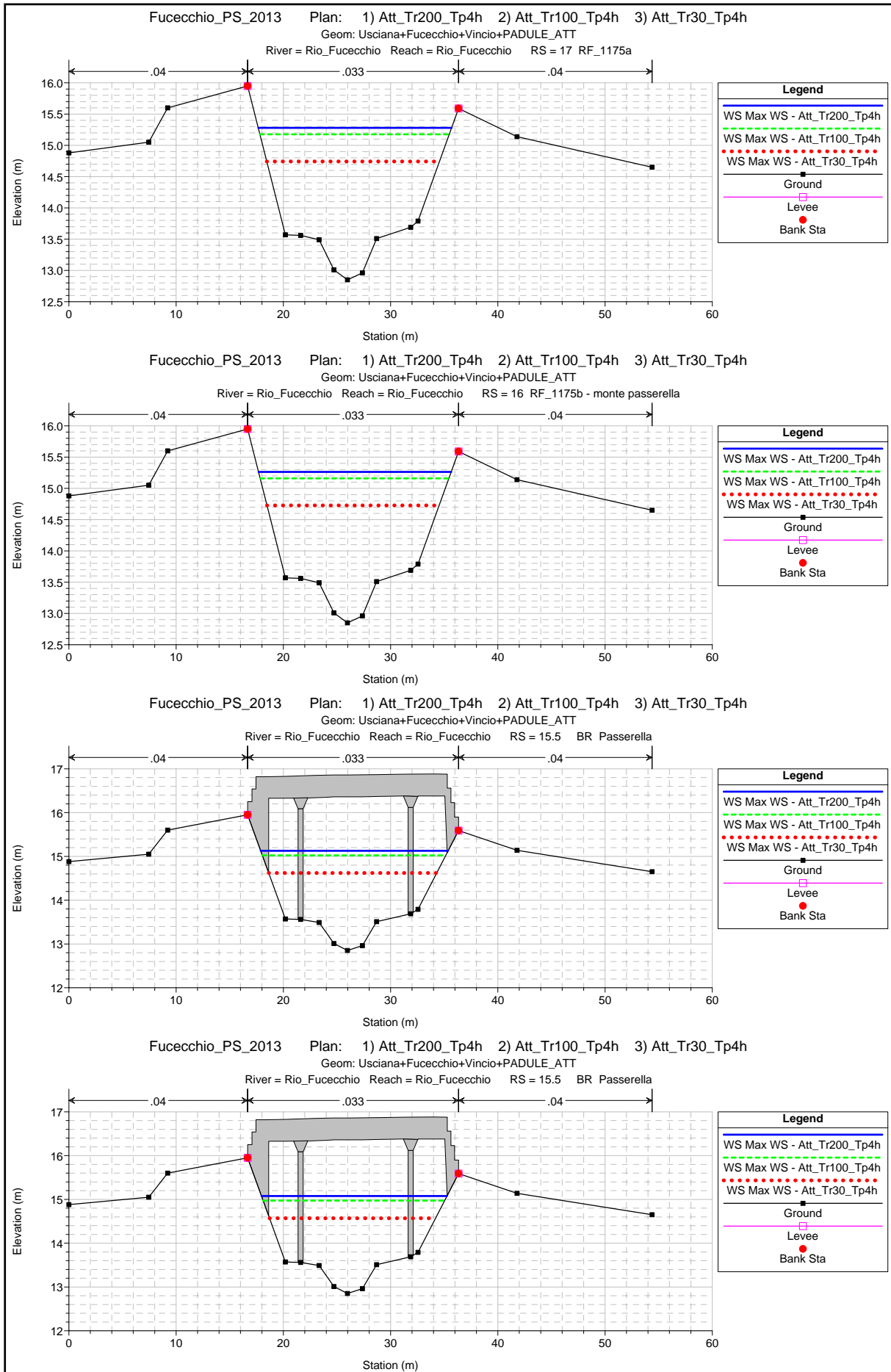


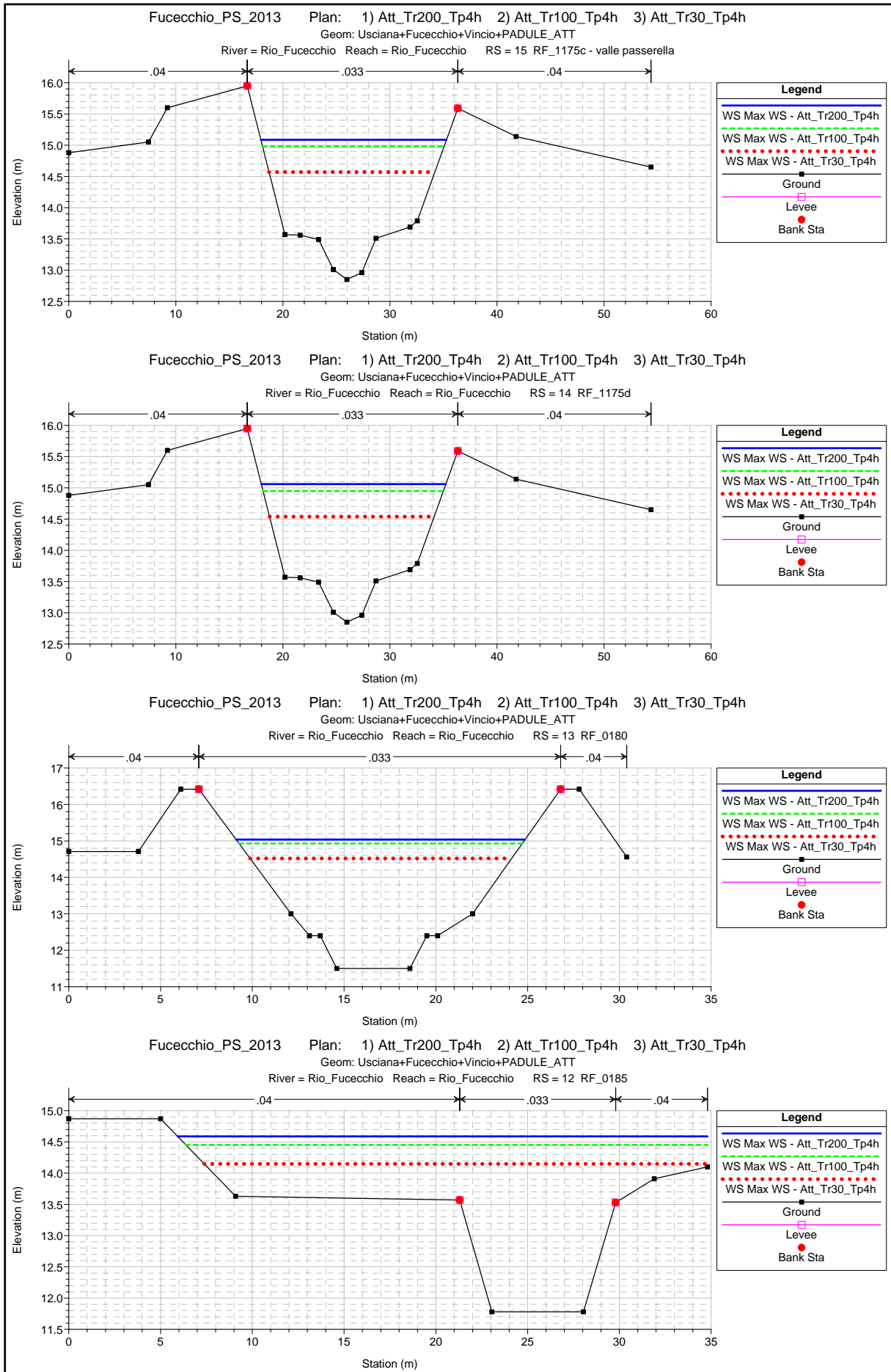


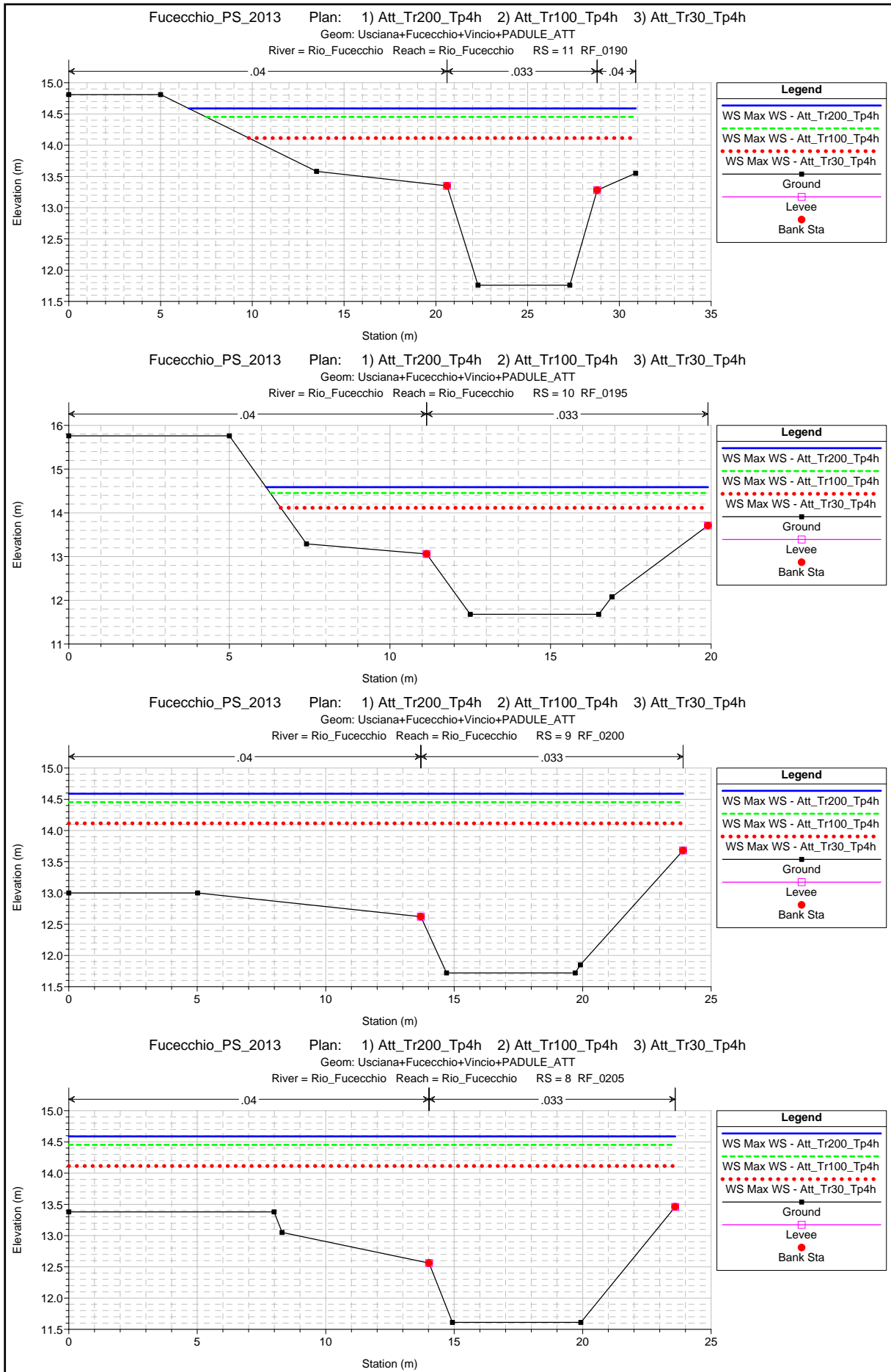




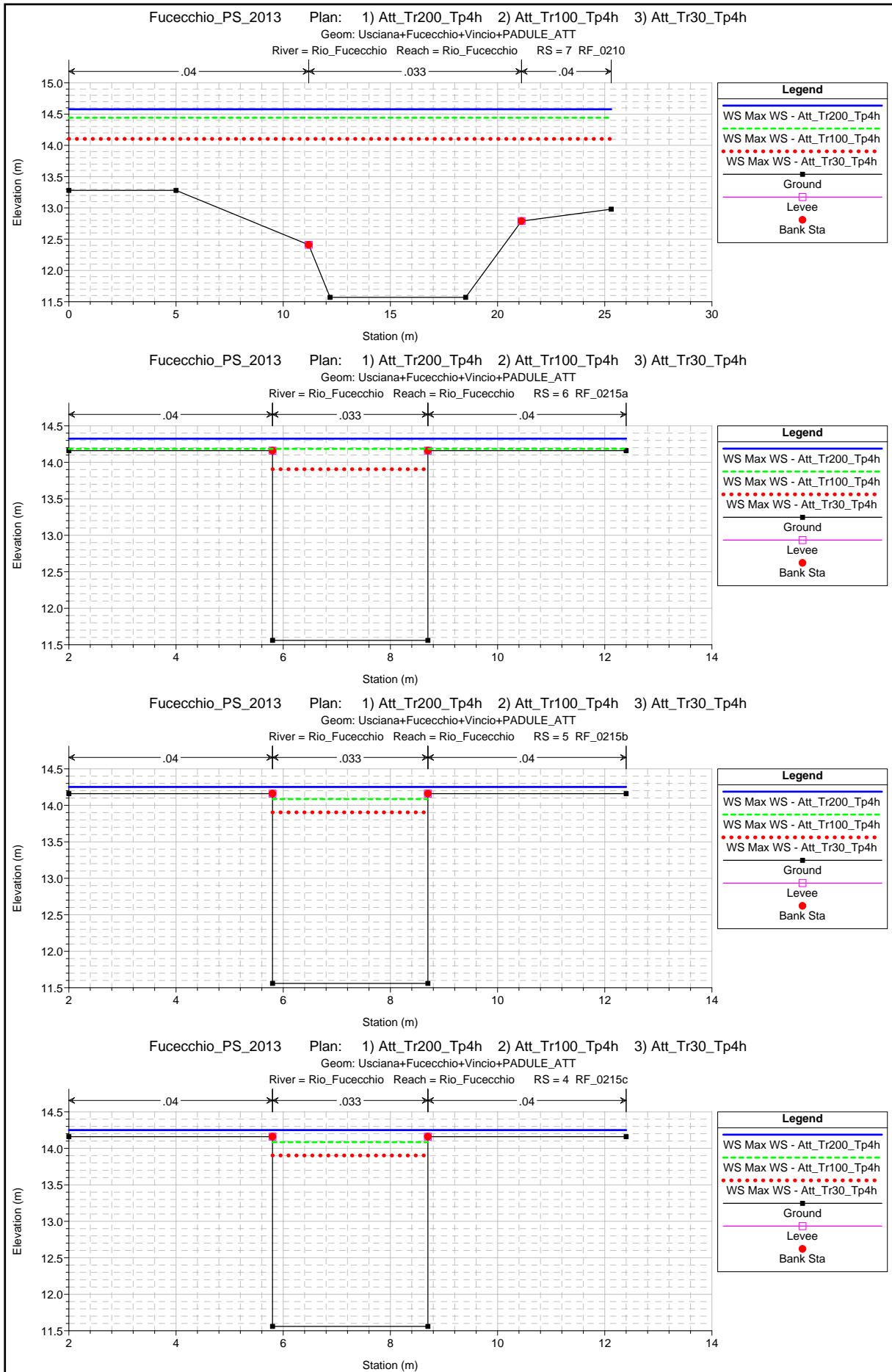


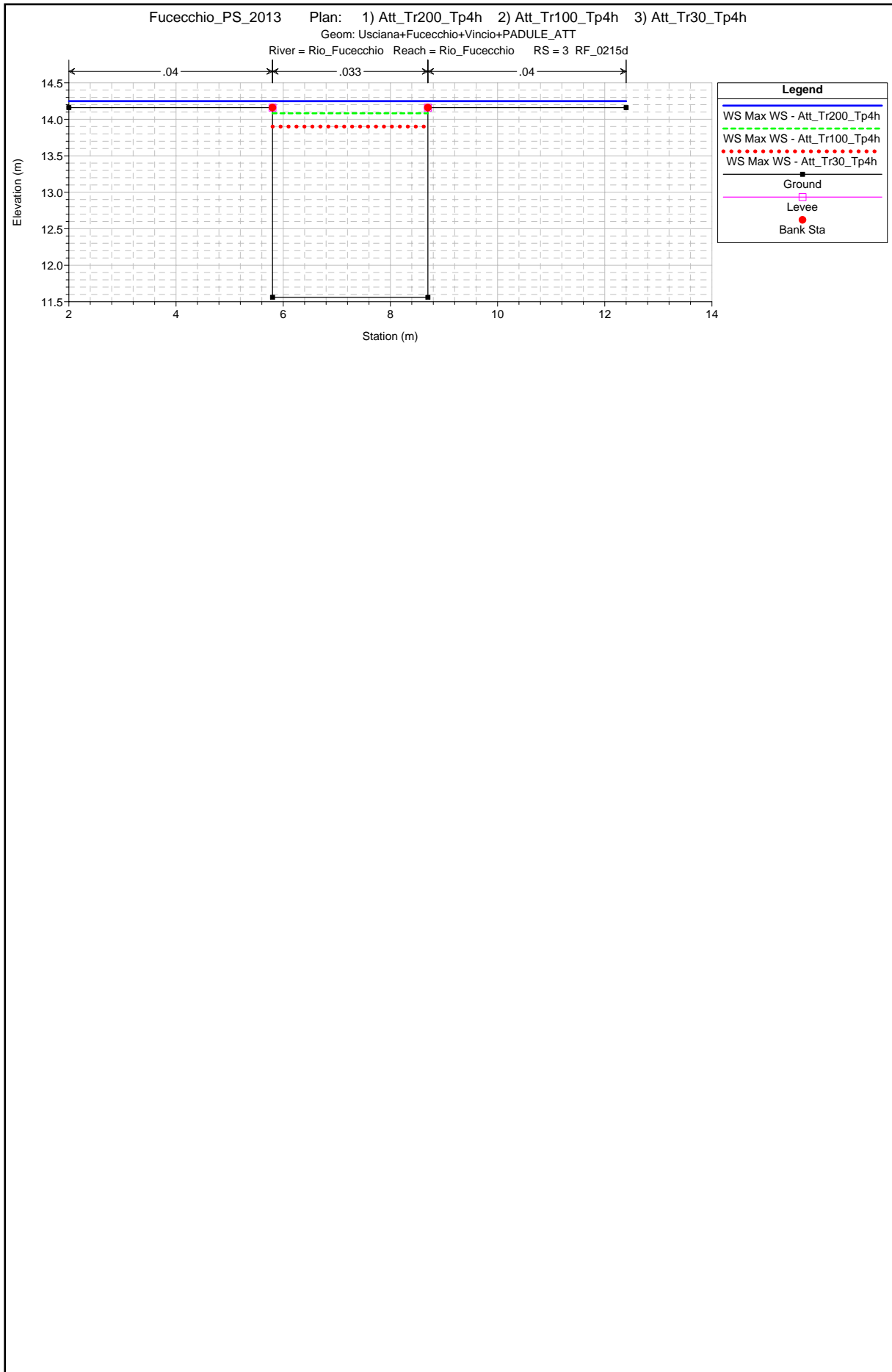












HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	77	Max WS	Att_Tr200_Tp4h	50.62	22.97	26.21		26.23	0.000559	1.04	108.52	214.12	0.22
Rio_Fucecchio	77	Max WS	Att_Tr100_Tp4h	41.18	22.97	26.12		26.15	0.000588	1.04	90.00	212.38	0.22
Rio_Fucecchio	77	Max WS	Att_Tr30_Tp4h	27.54	22.97	26.07		26.09	0.000352	0.80	79.34	211.38	0.17
Rio_Fucecchio	76.8	Max WS	Att_Tr200_Tp4h	50.62	22.97	26.20		26.23	0.000562	1.05	108.26	214.10	0.22
Rio_Fucecchio	76.8	Max WS	Att_Tr100_Tp4h	41.18	22.97	26.12		26.15	0.000593	1.05	89.74	212.36	0.23
Rio_Fucecchio	76.8	Max WS	Att_Tr30_Tp4h	27.50	22.97	26.07		26.09	0.000352	0.80	79.21	211.37	0.17
Rio_Fucecchio	76	Max WS	Att_Tr200_Tp4h	46.07	22.97	26.20	25.86	26.22	0.000469	0.96	107.93	214.07	0.20
Rio_Fucecchio	76	Max WS	Att_Tr100_Tp4h	41.18	22.97	26.12	25.22	26.14	0.000599	1.05	89.35	212.32	0.23
Rio_Fucecchio	76	Max WS	Att_Tr30_Tp4h	27.45	22.97	26.07	24.83	26.08	0.000353	0.80	78.95	211.34	0.17
Rio_Fucecchio	75.5			Bridge									
Rio_Fucecchio	75	Max WS	Att_Tr200_Tp4h	50.62	22.97	25.69		26.33	0.008537	3.54	14.30	7.85	0.84
Rio_Fucecchio	75	Max WS	Att_Tr100_Tp4h	41.18	22.97	25.61		26.07	0.006435	3.02	13.64	7.74	0.73
Rio_Fucecchio	75	Max WS	Att_Tr30_Tp4h	22.86	22.97	25.39		25.57	0.002841	1.91	11.98	7.46	0.48
Rio_Fucecchio	74	Max WS	Att_Tr200_Tp4h	50.62	22.97	25.66		26.32	0.008996	3.61	14.03	7.80	0.86
Rio_Fucecchio	74	Max WS	Att_Tr100_Tp4h	41.18	22.97	25.57		26.06	0.006758	3.07	13.40	7.70	0.74
Rio_Fucecchio	74	Max WS	Att_Tr30_Tp4h	22.86	22.97	25.37		25.56	0.002934	1.93	11.84	7.44	0.49
Rio_Fucecchio	73	Max WS	Att_Tr200_Tp4h	50.62	23.24	25.65		25.80	0.003447	2.31	46.95	118.24	0.55
Rio_Fucecchio	73	Max WS	Att_Tr100_Tp4h	41.18	23.24	25.57		25.73	0.003428	2.24	37.97	104.01	0.54
Rio_Fucecchio	73	Max WS	Att_Tr30_Tp4h	28.72	23.24	25.39		25.60	0.004052	2.26	22.41	73.02	0.58
Rio_Fucecchio	72	Max WS	Att_Tr200_Tp4h	50.62	22.52	25.01		25.23	0.004380	2.64	36.92	80.57	0.62
Rio_Fucecchio	72	Max WS	Att_Tr100_Tp4h	41.18	22.52	24.93		25.14	0.004123	2.48	30.62	71.39	0.59
Rio_Fucecchio	72	Max WS	Att_Tr30_Tp4h	27.63	22.52	24.69		24.96	0.005129	2.51	16.56	44.53	0.65
Rio_Fucecchio	71	Max WS	Att_Tr200_Tp4h	50.62	22.17	24.62		24.88	0.004629	2.85	32.58	63.85	0.64
Rio_Fucecchio	71	Max WS	Att_Tr100_Tp4h	41.18	22.17	24.51		24.77	0.004510	2.71	26.34	53.77	0.63
Rio_Fucecchio	71	Max WS	Att_Tr30_Tp4h	27.63	22.17	24.31		24.54	0.004130	2.41	17.48	34.74	0.59
Rio_Fucecchio	70	Max WS	Att_Tr200_Tp4h	50.62	20.97	23.76		23.77	0.000230	0.73	182.06	339.66	0.15
Rio_Fucecchio	70	Max WS	Att_Tr100_Tp4h	41.17	20.97	23.64		23.65	0.000271	0.76	141.26	289.59	0.16
Rio_Fucecchio	70	Max WS	Att_Tr30_Tp4h	23.01	20.97	23.07		23.14	0.001509	1.48	36.42	131.36	0.37
Rio_Fucecchio	69.5	Max WS	Att_Tr200_Tp4h	50.61	20.73	23.75		23.76	0.000288	0.76	130.80	195.35	0.17

HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	69.5	Max WS	Att_Tr100_Tp4h	41.17	20.73	23.62		23.63	0.000330	0.78	105.94	189.26	0.18
Rio_Fucecchio	69.5	Max WS	Att_Tr30_Tp4h	27.63	20.73	22.83		23.16	0.006413	2.57	10.76	8.48	0.73
Rio_Fucecchio	69	Max WS	Att_Tr200_Tp4h	60.81	20.49	23.39		23.89	0.006196	3.15	19.58	14.72	0.75
Rio_Fucecchio	69	Max WS	Att_Tr100_Tp4h	49.86	20.49	23.28		23.67	0.005018	2.76	18.09	10.52	0.67
Rio_Fucecchio	69	Max WS	Att_Tr30_Tp4h	30.78	20.49	22.38		22.88	0.009963	3.14	9.79	7.88	0.90
Rio_Fucecchio	68.98			Lat Struct									
Rio_Fucecchio	68	Max WS	Att_Tr200_Tp4h	60.09	20.58	23.50		23.66	0.001376	1.73	35.03	19.52	0.36
Rio_Fucecchio	68	Max WS	Att_Tr100_Tp4h	49.82	20.58	23.41		23.53	0.001061	1.49	33.43	16.58	0.32
Rio_Fucecchio	68	Max WS	Att_Tr30_Tp4h	30.78	20.58	22.37		22.51	0.002184	1.63	18.84	13.25	0.44
Rio_Fucecchio	67	Max WS	Att_Tr200_Tp4h	60.09	20.58	23.49	22.22	23.65	0.001394	1.74	34.83	19.19	0.37
Rio_Fucecchio	67	Max WS	Att_Tr100_Tp4h	49.82	20.58	23.41	22.06	23.52	0.001070	1.50	33.32	16.38	0.32
Rio_Fucecchio	67	Max WS	Att_Tr30_Tp4h	30.78	20.58	22.36	21.74	22.50	0.002251	1.65	18.65	13.23	0.44
Rio_Fucecchio	66.5			Bridge									
Rio_Fucecchio	66	Max WS	Att_Tr200_Tp4h	60.09	20.58	23.34		23.52	0.001694	1.86	32.32	14.73	0.40
Rio_Fucecchio	66	Max WS	Att_Tr100_Tp4h	49.82	20.58	23.18		23.32	0.001434	1.66	29.99	14.32	0.37
Rio_Fucecchio	66	Max WS	Att_Tr30_Tp4h	30.78	20.58	22.32		22.46	0.002470	1.70	18.09	13.18	0.46
Rio_Fucecchio	65	Max WS	Att_Tr200_Tp4h	60.09	20.58	23.33		23.51	0.001714	1.87	32.18	14.69	0.40
Rio_Fucecchio	65	Max WS	Att_Tr100_Tp4h	49.82	20.58	23.17		23.32	0.001450	1.67	29.87	14.31	0.37
Rio_Fucecchio	65	Max WS	Att_Tr30_Tp4h	30.78	20.58	22.30		22.45	0.002555	1.72	17.89	13.15	0.47
Rio_Fucecchio	64.9			Lat Struct									
Rio_Fucecchio	64	Max WS	Att_Tr200_Tp4h	59.03	19.78	23.32		23.43	0.000848	1.53	48.37	56.29	0.30
Rio_Fucecchio	64	Max WS	Att_Tr100_Tp4h	49.56	19.78	23.16		23.26	0.000806	1.43	39.47	47.57	0.29
Rio_Fucecchio	64	Max WS	Att_Tr30_Tp4h	30.78	19.78	22.26		22.36	0.001285	1.42	21.65	12.64	0.35
Rio_Fucecchio	63	Max WS	Att_Tr200_Tp4h	59.03	19.78	23.14	21.90	23.45	0.003880	2.48	24.86	45.45	0.60
Rio_Fucecchio	63	Max WS	Att_Tr100_Tp4h	49.56	19.78	23.02	21.70	23.27	0.001341	2.20	22.55	31.27	0.41
Rio_Fucecchio	63	Max WS	Att_Tr30_Tp4h	30.78	19.78	22.17	21.26	22.36	0.001609	1.92	16.04	12.42	0.42
Rio_Fucecchio	62.5			Bridge									

HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	62	Max WS	Att_Tr200_Tp4h	59.03	19.78	22.83		23.23	0.002396	2.81	21.04	17.95	0.54
Rio_Fucecchio	62	Max WS	Att_Tr100_Tp4h	49.55	19.78	22.66		22.98	0.002089	2.51	19.74	14.44	0.50
Rio_Fucecchio	62	Max WS	Att_Tr30_Tp4h	30.78	19.78	22.15		22.34	0.001677	1.94	15.85	12.36	0.43
Rio_Fucecchio	61	Max WS	Att_Tr200_Tp4h	59.03	19.78	23.03		23.20	0.001394	1.82	35.37	37.19	0.38
Rio_Fucecchio	61	Max WS	Att_Tr100_Tp4h	49.56	19.78	22.81		22.96	0.001403	1.71	29.58	17.95	0.37
Rio_Fucecchio	61	Max WS	Att_Tr30_Tp4h	30.78	19.78	22.22		22.33	0.001375	1.46	21.14	12.54	0.36
Rio_Fucecchio	60	Max WS	Att_Tr200_Tp4h	59.03	19.79	22.79		23.17	0.003688	2.82	23.66	15.40	0.59
Rio_Fucecchio	60	Max WS	Att_Tr100_Tp4h	49.55	19.79	22.57		22.92	0.003829	2.69	20.31	15.18	0.59
Rio_Fucecchio	60	Max WS	Att_Tr30_Tp4h	30.78	19.79	21.97		22.28	0.004699	2.46	12.67	11.05	0.63
Rio_Fucecchio	59	Max WS	Att_Tr200_Tp4h	59.03	19.50	22.54		22.98	0.004595	3.00	21.42	15.27	0.64
Rio_Fucecchio	59	Max WS	Att_Tr100_Tp4h	49.55	19.50	22.31		22.73	0.004853	2.88	18.00	15.09	0.65
Rio_Fucecchio	59	Max WS	Att_Tr30_Tp4h	30.78	19.50	21.75		22.06	0.004665	2.46	12.50	7.70	0.62
Rio_Fucecchio	58	Max WS	Att_Tr200_Tp4h	59.03	19.12	22.26		22.73	0.004857	3.04	20.23	10.90	0.63
Rio_Fucecchio	58	Max WS	Att_Tr100_Tp4h	49.55	19.12	22.07		22.47	0.004539	2.81	18.14	10.90	0.61
Rio_Fucecchio	58	Max WS	Att_Tr30_Tp4h	30.78	19.12	21.55		21.83	0.003898	2.31	13.34	7.84	0.56
Rio_Fucecchio	57	Max WS	Att_Tr200_Tp4h	59.03	18.91	21.99		22.38	0.003841	2.86	22.99	14.48	0.60
Rio_Fucecchio	57	Max WS	Att_Tr100_Tp4h	49.55	18.91	21.81		22.15	0.003715	2.66	20.36	14.31	0.58
Rio_Fucecchio	57	Max WS	Att_Tr30_Tp4h	30.78	18.91	21.28		21.54	0.003842	2.28	13.49	8.17	0.57
Rio_Fucecchio	56	Max WS	Att_Tr200_Tp4h	59.03	18.63	21.88		22.22	0.003150	2.71	25.20	14.51	0.54
Rio_Fucecchio	56	Max WS	Att_Tr100_Tp4h	49.55	18.63	21.71		22.00	0.002934	2.49	22.71	14.36	0.52
Rio_Fucecchio	56	Max WS	Att_Tr30_Tp4h	30.78	18.63	21.14		21.38	0.003251	2.19	14.81	10.87	0.52
Rio_Fucecchio	55	Max WS	Att_Tr200_Tp4h	59.03	18.39	21.77		22.06	0.002508	2.48	27.28	15.45	0.49
Rio_Fucecchio	55	Max WS	Att_Tr100_Tp4h	49.55	18.39	21.61		21.85	0.002284	2.26	24.77	15.24	0.47
Rio_Fucecchio	55	Max WS	Att_Tr30_Tp4h	30.78	18.39	21.02		21.22	0.002585	2.00	16.03	14.50	0.47
Rio_Fucecchio	54	Max WS	Att_Tr200_Tp4h	59.02	18.14	21.47		21.89	0.004279	2.97	22.11	14.02	0.60
Rio_Fucecchio	54	Max WS	Att_Tr100_Tp4h	45.94	18.14	21.41		21.69	0.002819	2.38	21.38	13.96	0.49
Rio_Fucecchio	54	Max WS	Att_Tr30_Tp4h	30.78	18.14	20.81		21.06	0.003481	2.23	13.81	7.34	0.52
Rio_Fucecchio	53	Max WS	Att_Tr200_Tp4h	59.02	17.90	21.56		21.60	0.000548	1.17	88.87	89.78	0.22
Rio_Fucecchio	53	Max WS	Att_Tr100_Tp4h	45.85	17.90	21.48		21.50	0.000409	0.99	81.44	87.10	0.19
Rio_Fucecchio	53	Max WS	Att_Tr30_Tp4h	30.78	17.90	20.72		20.91	0.002385	1.96	16.28	10.77	0.44

HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	52.9			Lat Struct									
Rio_Fucecchio	52	Max WS	Att_Tr200_Tp4h	59.02	18.06	21.49		21.64	0.001775	1.92	47.19	71.87	0.42
Rio_Fucecchio	52	Max WS	Att_Tr100_Tp4h	43.38	18.06	21.42		21.52	0.001174	1.53	42.42	69.80	0.34
Rio_Fucecchio	52	Max WS	Att_Tr30_Tp4h	30.78	18.06	20.64		20.86	0.003376	2.09	14.74	10.05	0.55
Rio_Fucecchio	51	Max WS	Att_Tr200_Tp4h	59.02	18.06	21.48	20.70	21.63	0.001839	1.95	46.34	71.51	0.43
Rio_Fucecchio	51	Max WS	Att_Tr100_Tp4h	43.21	18.06	21.41	20.37	21.51	0.001187	1.54	41.97	69.60	0.34
Rio_Fucecchio	51	Max WS	Att_Tr30_Tp4h	30.78	18.06	20.61	20.06	20.84	0.003539	2.12	14.49	9.99	0.56
Rio_Fucecchio	50.5			Bridge									
Rio_Fucecchio	50	Max WS	Att_Tr200_Tp4h	59.02	18.06	20.98		21.51	0.006712	3.21	18.37	11.26	0.79
Rio_Fucecchio	50	Max WS	Att_Tr100_Tp4h	57.34	18.06	20.90		21.45	0.007333	3.29	17.45	10.71	0.82
Rio_Fucecchio	50	Max WS	Att_Tr30_Tp4h	30.78	18.06	20.32		20.67	0.006467	2.64	11.68	9.25	0.75
Rio_Fucecchio	49	Max WS	Att_Tr200_Tp4h	59.02	18.06	20.92		21.49	0.007467	3.33	17.70	10.77	0.83
Rio_Fucecchio	49	Max WS	Att_Tr100_Tp4h	57.16	18.06	20.82		21.42	0.008381	3.45	16.59	10.51	0.88
Rio_Fucecchio	49	Max WS	Att_Tr30_Tp4h	30.78	18.06	20.25		20.64	0.007627	2.79	11.01	9.07	0.81
Rio_Fucecchio	48.9			Lat Struct									
Rio_Fucecchio	48	Max WS	Att_Tr200_Tp4h	59.02	17.69	20.86		21.13	0.002377	2.42	28.57	17.00	0.49
Rio_Fucecchio	48	Max WS	Att_Tr100_Tp4h	54.77	17.69	20.65		20.95	0.002942	2.53	24.99	16.59	0.54
Rio_Fucecchio	48	Max WS	Att_Tr30_Tp4h	30.78	17.69	20.09		20.30	0.002873	2.07	16.01	15.52	0.51
Rio_Fucecchio	47	Max WS	Att_Tr200_Tp4h	59.01	17.53	20.67		20.93	0.002303	2.36	28.77	16.85	0.49
Rio_Fucecchio	47	Max WS	Att_Tr100_Tp4h	51.03	17.53	20.41		20.68	0.002683	2.36	24.47	16.56	0.52
Rio_Fucecchio	47	Max WS	Att_Tr30_Tp4h	30.78	17.53	19.79		20.03	0.003645	2.19	14.32	15.88	0.57
Rio_Fucecchio	46	Max WS	Att_Tr200_Tp4h	59.01	17.19	20.58		20.80	0.001809	2.28	34.59	27.16	0.43
Rio_Fucecchio	46	Max WS	Att_Tr100_Tp4h	51.01	17.19	20.31		20.54	0.001987	2.24	28.39	19.67	0.45
Rio_Fucecchio	46	Max WS	Att_Tr30_Tp4h	30.78	17.19	19.68		19.85	0.002045	1.88	18.38	15.15	0.43
Rio_Fucecchio	45	Max WS	Att_Tr200_Tp4h	59.01	17.19	20.38		20.66	0.002427	2.51	29.77	21.57	0.50
Rio_Fucecchio	45	Max WS	Att_Tr100_Tp4h	50.95	17.19	20.13		20.38	0.002489	2.38	25.16	15.56	0.49
Rio_Fucecchio	45	Max WS	Att_Tr30_Tp4h	30.78	17.19	19.41		19.66	0.003464	2.25	14.98	11.12	0.55

HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	44	Max WS	Att_Tr200_Tp4h	59.01	17.33	20.40		20.49	0.000961	1.31	45.04	25.11	0.31
Rio_Fucecchio	44	Max WS	Att_Tr100_Tp4h	50.99	17.33	20.13		20.22	0.001112	1.33	38.37	23.49	0.33
Rio_Fucecchio	44	Max WS	Att_Tr30_Tp4h	30.78	17.33	19.33		19.43	0.002034	1.44	21.45	18.77	0.43
Rio_Fucecchio	43	Max WS	Att_Tr200_Tp4h	59.01	17.33	20.05	19.47	20.56	0.003602	3.18	18.57	22.99	0.66
Rio_Fucecchio	43	Max WS	Att_Tr100_Tp4h	50.97	17.33	19.79	19.30	20.27	0.003896	3.07	16.61	21.51	0.67
Rio_Fucecchio	43	Max WS	Att_Tr30_Tp4h	30.78	17.33	19.06	18.83	19.47	0.005912	2.84	10.83	17.16	0.77
Rio_Fucecchio	42.5			Bridge									
Rio_Fucecchio	42	Max WS	Att_Tr200_Tp4h	59.01	16.75	19.44		20.24	0.009023	3.95	14.95	10.94	0.87
Rio_Fucecchio	42	Max WS	Att_Tr100_Tp4h	50.97	16.75	19.34		20.00	0.007930	3.58	14.23	10.76	0.80
Rio_Fucecchio	42	Max WS	Att_Tr30_Tp4h	30.78	16.75	18.89		19.29	0.006668	2.78	11.08	7.85	0.71
Rio_Fucecchio	41	Max WS	Att_Tr200_Tp4h	59.01	16.75	19.58		20.14	0.009209	3.31	17.81	11.20	0.84
Rio_Fucecchio	41	Max WS	Att_Tr100_Tp4h	50.93	16.75	19.41		19.93	0.009478	3.20	15.93	10.88	0.84
Rio_Fucecchio	41	Max WS	Att_Tr30_Tp4h	30.78	16.75	18.84		19.25	0.008412	2.85	10.78	7.72	0.77
Rio_Fucecchio	40	Max WS	Att_Tr200_Tp4h	59.01	16.52	19.60		19.75	0.001425	1.71	34.58	16.33	0.37
Rio_Fucecchio	40	Max WS	Att_Tr100_Tp4h	50.89	16.52	19.41		19.54	0.001412	1.62	31.39	16.07	0.37
Rio_Fucecchio	40	Max WS	Att_Tr30_Tp4h	30.78	16.52	18.84		18.94	0.001400	1.36	22.55	15.32	0.36
Rio_Fucecchio	39	Max WS	Att_Tr200_Tp4h	59.01	16.52	19.60	18.50	19.75	0.001447	1.72	34.40	16.31	0.38
Rio_Fucecchio	39	Max WS	Att_Tr100_Tp4h	50.88	16.52	19.40	18.39	19.53	0.001436	1.63	31.21	16.05	0.37
Rio_Fucecchio	39	Max WS	Att_Tr30_Tp4h	30.78	16.52	18.84	18.07	18.93	0.001431	1.37	22.39	15.29	0.36
Rio_Fucecchio	38.5			Bridge									
Rio_Fucecchio	38	Max WS	Att_Tr200_Tp4h	59.01	16.52	19.36		19.55	0.002041	1.93	30.65	16.00	0.44
Rio_Fucecchio	38	Max WS	Att_Tr100_Tp4h	50.88	16.52	19.20		19.37	0.001965	1.81	28.11	15.78	0.43
Rio_Fucecchio	38	Max WS	Att_Tr30_Tp4h	30.78	16.52	18.72		18.84	0.001823	1.49	20.68	15.13	0.41
Rio_Fucecchio	37	Max WS	Att_Tr200_Tp4h	59.01	16.52	19.35		19.54	0.002071	1.94	30.49	15.99	0.45
Rio_Fucecchio	37	Max WS	Att_Tr100_Tp4h	50.87	16.52	19.19		19.36	0.001995	1.82	27.96	15.78	0.44
Rio_Fucecchio	37	Max WS	Att_Tr30_Tp4h	30.78	16.52	18.71		18.83	0.001859	1.50	20.55	15.14	0.41
Rio_Fucecchio	36	Max WS	Att_Tr200_Tp4h	59.01	16.64	18.87		19.41	0.008573	3.24	18.20	12.96	0.87
Rio_Fucecchio	36	Max WS	Att_Tr100_Tp4h	50.82	16.64	18.73		19.22	0.008752	3.11	16.32	12.60	0.87
Rio_Fucecchio	36	Max WS	Att_Tr30_Tp4h	30.78	16.64	18.28		18.68	0.010429	2.80	10.99	11.50	0.91

HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	35	Max WS	Att_Tr200_Tp4h	59.01	15.94	18.97		19.15	0.001848	1.89	31.27	13.92	0.40
Rio_Fucecchio	35	Max WS	Att_Tr100_Tp4h	50.75	15.94	18.81		18.97	0.001705	1.75	29.05	13.92	0.39
Rio_Fucecchio	35	Max WS	Att_Tr30_Tp4h	30.78	15.94	18.28		18.39	0.001531	1.42	21.68	13.92	0.36
Rio_Fucecchio	34	Max WS	Att_Tr200_Tp4h	59.01	15.94	18.96	17.95	19.15	0.001876	1.90	31.12	13.92	0.40
Rio_Fucecchio	34	Max WS	Att_Tr100_Tp4h	50.74	15.94	18.80	17.83	18.96	0.001730	1.75	28.91	13.92	0.39
Rio_Fucecchio	34	Max WS	Att_Tr30_Tp4h	30.78	15.94	18.28	17.52	18.38	0.001559	1.43	21.56	13.92	0.37
Rio_Fucecchio	33.5			Bridge									
Rio_Fucecchio	33	Max WS	Att_Tr200_Tp4h	59.01	15.94	18.89		19.08	0.002077	1.96	30.08	13.92	0.43
Rio_Fucecchio	33	Max WS	Att_Tr100_Tp4h	50.74	15.94	18.74		18.91	0.001896	1.81	28.05	13.92	0.41
Rio_Fucecchio	33	Max WS	Att_Tr30_Tp4h	30.78	15.94	18.23		18.34	0.001693	1.47	20.99	13.92	0.38
Rio_Fucecchio	32.9			Lat Struct									
Rio_Fucecchio	32.8			Lat Struct									
Rio_Fucecchio	32	Max WS	Att_Tr200_Tp4h	59.01	15.94	18.88		19.07	0.002115	1.97	29.90	13.92	0.43
Rio_Fucecchio	32	Max WS	Att_Tr100_Tp4h	50.73	15.94	18.73		18.90	0.001928	1.82	27.89	13.92	0.41
Rio_Fucecchio	32	Max WS	Att_Tr30_Tp4h	30.78	15.94	18.23		18.34	0.001727	1.48	20.85	13.92	0.38
Rio_Fucecchio	31	Max WS	Att_Tr200_Tp4h	59.01	15.60	18.67		18.86	0.002004	1.92	30.80	16.47	0.45
Rio_Fucecchio	31	Max WS	Att_Tr100_Tp4h	50.53	15.60	18.55		18.70	0.001802	1.76	28.72	16.17	0.42
Rio_Fucecchio	31	Max WS	Att_Tr30_Tp4h	30.78	15.60	18.04		18.15	0.001722	1.48	20.84	14.95	0.40
Rio_Fucecchio	30	Max WS	Att_Tr200_Tp4h	57.92	15.33	18.38		18.49	0.001256	1.57	43.36	36.95	0.36
Rio_Fucecchio	30	Max WS	Att_Tr100_Tp4h	49.44	15.33	18.28		18.38	0.001129	1.45	39.66	36.81	0.34
Rio_Fucecchio	30	Max WS	Att_Tr30_Tp4h	30.77	15.33	17.75		17.84	0.001272	1.33	23.14	15.51	0.35
Rio_Fucecchio	29	Max WS	Att_Tr200_Tp4h	53.81	14.79	17.49		17.81	0.004260	2.51	21.47	13.19	0.63
Rio_Fucecchio	29	Max WS	Att_Tr100_Tp4h	49.10	14.79	17.39		17.69	0.004181	2.43	20.24	12.89	0.62
Rio_Fucecchio	29	Max WS	Att_Tr30_Tp4h	30.77	14.79	16.98		17.19	0.003709	2.03	15.15	11.56	0.57
Rio_Fucecchio	28	Max WS	Att_Tr200_Tp4h	53.81	14.52	16.87		17.15	0.004160	2.36	22.85	15.96	0.63
Rio_Fucecchio	28	Max WS	Att_Tr100_Tp4h	49.09	14.52	16.76		17.03	0.004344	2.32	21.14	15.62	0.64
Rio_Fucecchio	28	Max WS	Att_Tr30_Tp4h	30.77	14.52	16.32		16.55	0.005062	2.10	14.66	14.28	0.66



HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	27	Max WS	Att_Tr200_Tp4h	53.81	13.90	16.73		16.81	0.000716	1.20	44.74	23.63	0.28
Rio_Fucecchio	27	Max WS	Att_Tr100_Tp4h	49.09	13.90	16.61		16.68	0.000730	1.18	41.72	23.15	0.28
Rio_Fucecchio	27	Max WS	Att_Tr30_Tp4h	30.77	13.90	16.05		16.11	0.000797	1.04	29.49	21.09	0.28
Rio_Fucecchio	26	Max WS	Att_Tr200_Tp4h	53.81	13.90	16.73	15.47	16.80	0.000723	1.21	44.59	23.60	0.28
Rio_Fucecchio	26	Max WS	Att_Tr100_Tp4h	49.09	13.90	16.60	15.41	16.67	0.000738	1.18	41.57	23.12	0.28
Rio_Fucecchio	26	Max WS	Att_Tr30_Tp4h	30.77	13.90	16.05	15.15	16.10	0.000808	1.05	29.35	21.06	0.28
Rio_Fucecchio	25.5			Bridge									
Rio_Fucecchio	25	Max WS	Att_Tr200_Tp4h	53.81	13.90	16.69		16.76	0.000774	1.24	43.56	23.44	0.29
Rio_Fucecchio	25	Max WS	Att_Tr100_Tp4h	49.09	13.90	16.56		16.64	0.000787	1.21	40.65	22.97	0.29
Rio_Fucecchio	25	Max WS	Att_Tr30_Tp4h	30.77	13.90	16.02		16.08	0.000856	1.07	28.79	20.96	0.29
Rio_Fucecchio	24.9			Lat Struct									
Rio_Fucecchio	24.8			Lat Struct									
Rio_Fucecchio	24	Max WS	Att_Tr200_Tp4h	53.81	13.90	16.68		16.76	0.000776	1.24	43.52	23.43	0.29
Rio_Fucecchio	24	Max WS	Att_Tr100_Tp4h	49.09	13.90	16.56		16.63	0.000790	1.21	40.62	22.97	0.29
Rio_Fucecchio	24	Max WS	Att_Tr30_Tp4h	30.77	13.90	16.02		16.08	0.000859	1.07	28.75	20.96	0.29
Rio_Fucecchio	23	Max WS	Att_Tr200_Tp4h	53.81	13.04	16.28		16.42	0.001284	1.65	32.60	18.96	0.36
Rio_Fucecchio	23	Max WS	Att_Tr100_Tp4h	49.08	13.04	16.16		16.29	0.001250	1.59	30.82	14.86	0.35
Rio_Fucecchio	23	Max WS	Att_Tr30_Tp4h	30.77	13.04	15.66		15.75	0.001032	1.30	23.70	13.60	0.31
Rio_Fucecchio	22	Max WS	Att_Tr200_Tp4h	53.81	13.39	16.20		16.35	0.001774	1.75	30.79	17.80	0.42
Rio_Fucecchio	22	Max WS	Att_Tr100_Tp4h	49.08	13.39	16.08		16.23	0.001816	1.71	28.65	17.40	0.43
Rio_Fucecchio	22	Max WS	Att_Tr30_Tp4h	30.77	13.39	15.57		15.68	0.001982	1.52	20.18	15.73	0.43
Rio_Fucecchio	21	Max WS	Att_Tr200_Tp4h	53.81	13.39	15.99	15.39	16.35	0.003143	2.65	20.33	17.13	0.59
Rio_Fucecchio	21	Max WS	Att_Tr100_Tp4h	49.08	13.39	15.89	15.30	16.22	0.003098	2.54	19.33	16.80	0.58
Rio_Fucecchio	21	Max WS	Att_Tr30_Tp4h	30.77	13.39	15.46	14.94	15.67	0.002809	2.05	15.04	15.39	0.53
Rio_Fucecchio	20.5			Bridge									
Rio_Fucecchio	20	Max WS	Att_Tr200_Tp4h	53.80	13.39	15.88		16.28	0.003799	2.80	19.21	16.76	0.64
Rio_Fucecchio	20	Max WS	Att_Tr100_Tp4h	49.08	13.39	15.79		16.16	0.003699	2.68	18.33	16.47	0.63
Rio_Fucecchio	20	Max WS	Att_Tr30_Tp4h	30.77	13.39	15.39		15.62	0.003312	2.15	14.31	15.15	0.57

HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	19.9			Lat Struct									
Rio_Fucecchio	19.8			Lat Struct									
Rio_Fucecchio	19	Max WS	Att_Tr200_Tp4h	53.81	13.39	16.08		16.26	0.002190	1.88	28.62	17.40	0.47
Rio_Fucecchio	19	Max WS	Att_Tr100_Tp4h	49.08	13.39	15.96		16.13	0.002234	1.84	26.67	17.03	0.47
Rio_Fucecchio	19	Max WS	Att_Tr30_Tp4h	30.77	13.39	15.47		15.61	0.002493	1.65	18.67	15.42	0.48
Rio_Fucecchio	18	Max WS	Att_Tr200_Tp4h	53.80	12.30	15.71		15.83	0.001122	1.56	34.44	15.83	0.34
Rio_Fucecchio	18	Max WS	Att_Tr100_Tp4h	49.08	12.30	15.60		15.71	0.001074	1.50	32.74	15.51	0.33
Rio_Fucecchio	18	Max WS	Att_Tr30_Tp4h	30.77	12.30	15.12		15.19	0.000831	1.20	25.66	14.11	0.28
Rio_Fucecchio	17	Max WS	Att_Tr200_Tp4h	53.74	12.85	15.28		15.47	0.002377	1.91	28.11	18.02	0.49
Rio_Fucecchio	17	Max WS	Att_Tr100_Tp4h	49.08	12.85	15.18		15.35	0.002412	1.87	26.27	17.65	0.49
Rio_Fucecchio	17	Max WS	Att_Tr30_Tp4h	30.76	12.85	14.74		14.88	0.002456	1.62	18.97	16.10	0.48
Rio_Fucecchio	16	Max WS	Att_Tr200_Tp4h	53.73	12.85	15.26	14.59	15.45	0.002447	1.93	27.83	17.97	0.50
Rio_Fucecchio	16	Max WS	Att_Tr100_Tp4h	49.08	12.85	15.16	14.53	15.34	0.002489	1.89	25.99	17.60	0.50
Rio_Fucecchio	16	Max WS	Att_Tr30_Tp4h	30.76	12.85	14.73	14.23	14.86	0.002558	1.64	18.71	16.04	0.49
Rio_Fucecchio	15.5			Bridge									
Rio_Fucecchio	15	Max WS	Att_Tr200_Tp4h	53.34	12.85	15.09		15.32	0.003408	2.16	24.70	17.33	0.58
Rio_Fucecchio	15	Max WS	Att_Tr100_Tp4h	49.06	12.85	14.98		15.21	0.003611	2.15	22.86	16.95	0.59
Rio_Fucecchio	15	Max WS	Att_Tr30_Tp4h	30.72	12.85	14.57		14.75	0.003882	1.89	16.24	15.48	0.59
Rio_Fucecchio	14	Max WS	Att_Tr200_Tp4h	53.31	12.85	15.06		15.31	0.003597	2.20	24.23	17.24	0.59
Rio_Fucecchio	14	Max WS	Att_Tr100_Tp4h	49.05	12.85	14.95		15.19	0.003843	2.19	22.37	16.84	0.61
Rio_Fucecchio	14	Max WS	Att_Tr30_Tp4h	30.71	12.85	14.54		14.73	0.004251	1.95	15.75	15.37	0.62
Rio_Fucecchio	13.9			Lat Struct									
Rio_Fucecchio	13.8			Lat Struct									
Rio_Fucecchio	13	Max WS	Att_Tr200_Tp4h	53.16	11.50	15.04		15.15	0.000982	1.49	35.57	15.74	0.32
Rio_Fucecchio	13	Max WS	Att_Tr100_Tp4h	49.03	11.50	14.93		15.03	0.000955	1.45	33.88	15.43	0.31
Rio_Fucecchio	13	Max WS	Att_Tr30_Tp4h	30.71	11.50	14.52		14.58	0.000646	1.10	27.81	14.25	0.25

HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	12	Max WS	Att_Tr200_Tp4h	26.65	11.78	14.59		14.62	0.000361	0.94	37.88	28.87	0.19
Rio_Fucecchio	12	Max WS	Att_Tr100_Tp4h	25.39	11.78	14.45		14.49	0.000432	0.99	34.01	28.43	0.21
Rio_Fucecchio	12	Max WS	Att_Tr30_Tp4h	29.65	11.78	14.15		14.25	0.001178	1.49	25.48	27.42	0.34
Rio_Fucecchio	11.8			Lat Struct									
Rio_Fucecchio	11	Max WS	Att_Tr200_Tp4h	13.83	11.76	14.59		14.60	0.000104	0.52	34.62	24.36	0.10
Rio_Fucecchio	11	Max WS	Att_Tr100_Tp4h	12.69	11.76	14.45		14.46	0.000112	0.52	31.38	23.42	0.11
Rio_Fucecchio	11	Max WS	Att_Tr30_Tp4h	10.80	11.76	14.11		14.13	0.000157	0.56	23.87	21.09	0.12
Rio_Fucecchio	10	Max WS	Att_Tr200_Tp4h	5.70	11.68	14.59		14.59	0.000025	0.23	26.92	13.76	0.05
Rio_Fucecchio	10	Max WS	Att_Tr100_Tp4h	4.89	11.68	14.45		14.45	0.000023	0.22	25.06	13.63	0.05
Rio_Fucecchio	10	Max WS	Att_Tr30_Tp4h	3.56	11.68	14.11		14.12	0.000021	0.19	20.52	13.30	0.04
Rio_Fucecchio	9	Max WS	Att_Tr200_Tp4h	-1.03	11.72	14.59		14.59	0.000000	-0.03	48.05	23.91	0.01
Rio_Fucecchio	9	Max WS	Att_Tr100_Tp4h	-1.89	11.72	14.45		14.45	0.000001	-0.05	44.82	23.91	0.01
Rio_Fucecchio	9	Max WS	Att_Tr30_Tp4h	-1.96	11.72	14.11		14.11	0.000002	-0.06	36.73	23.91	0.01
Rio_Fucecchio	8	Max WS	Att_Tr200_Tp4h	-11.31	11.61	14.59		14.59	0.000037	-0.31	44.97	23.60	0.06
Rio_Fucecchio	8	Max WS	Att_Tr100_Tp4h	-10.78	11.61	14.45		14.46	0.000042	-0.32	41.78	23.60	0.06
Rio_Fucecchio	8	Max WS	Att_Tr30_Tp4h	-8.20	11.61	14.11		14.12	0.000044	-0.30	33.81	23.60	0.07
Rio_Fucecchio	7	Max WS	Att_Tr200_Tp4h	23.60	11.57	14.58		14.59	0.000101	0.58	52.12	25.30	0.11
Rio_Fucecchio	7	Max WS	Att_Tr100_Tp4h	22.82	11.57	14.44		14.46	0.000115	0.60	48.69	25.30	0.12
Rio_Fucecchio	7	Max WS	Att_Tr30_Tp4h	18.74	11.57	14.10		14.12	0.000136	0.60	40.14	25.30	0.13
Rio_Fucecchio	6	Max WS	Att_Tr200_Tp4h	24.51	11.56	14.32		14.75	0.013886	2.95	9.24	10.40	0.57
Rio_Fucecchio	6	Max WS	Att_Tr100_Tp4h	24.30	11.56	14.18	13.49	14.70	0.017431	3.19	7.79	10.40	0.63
Rio_Fucecchio	6	Max WS	Att_Tr30_Tp4h	2.20	11.56	13.90		13.91	0.000132	0.32	6.80	2.90	0.07
Rio_Fucecchio	5	Max WS	Att_Tr200_Tp4h	2.68	11.56	14.25		14.26	0.000190	0.34	8.49	10.40	0.07
Rio_Fucecchio	5	Max WS	Att_Tr100_Tp4h	2.73	11.56	14.09		14.09	0.000168	0.37	7.32	2.90	0.07
Rio_Fucecchio	5	Max WS	Att_Tr30_Tp4h	2.19	11.56	13.90		13.91	0.000132	0.32	6.80	2.90	0.07
Rio_Fucecchio	4	Max WS	Att_Tr200_Tp4h	2.67	11.56	14.25		14.26	0.000189	0.34	8.47	10.40	0.07
Rio_Fucecchio	4	Max WS	Att_Tr100_Tp4h	2.69	11.56	14.08		14.09	0.000165	0.37	7.32	2.90	0.07
Rio_Fucecchio	4	Max WS	Att_Tr30_Tp4h	2.19	11.56	13.90		13.91	0.000132	0.32	6.79	2.90	0.07
Rio_Fucecchio	3	Max WS	Att_Tr200_Tp4h	2.67	11.56	14.25		14.25	0.000189	0.34	8.46	10.40	0.07

HEC-RAS River: Rio\_Fucecchio Reach: Rio\_Fucecchio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	3	Max WS	Att_Tr100_Tp4h	2.66	11.56	14.08		14.09	0.000161	0.36	7.31	2.90	0.07
Rio_Fucecchio	3	Max WS	Att_Tr30_Tp4h	2.19	11.56	13.90		13.91	0.000132	0.32	6.79	2.90	0.07

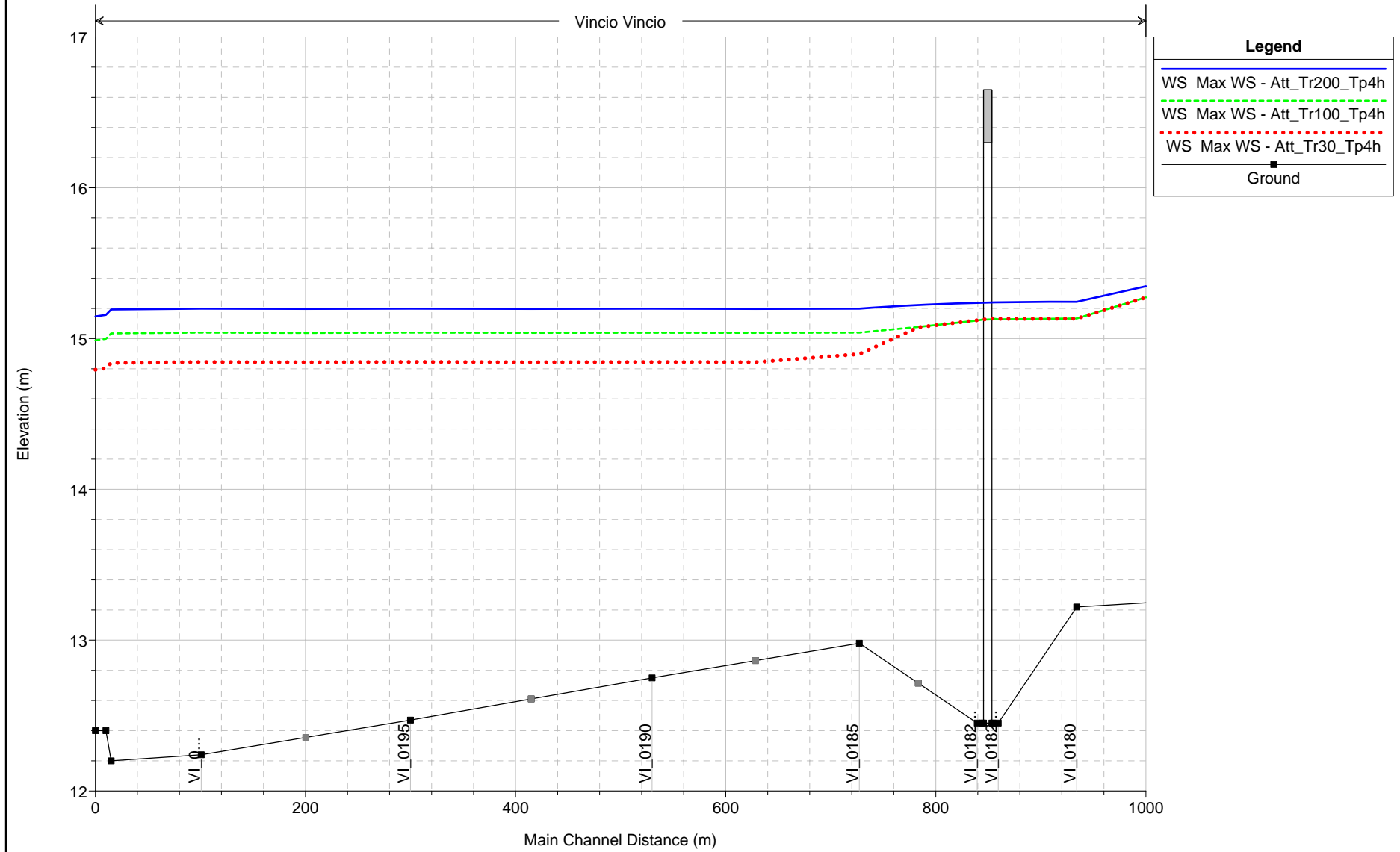
# **Scenario B**

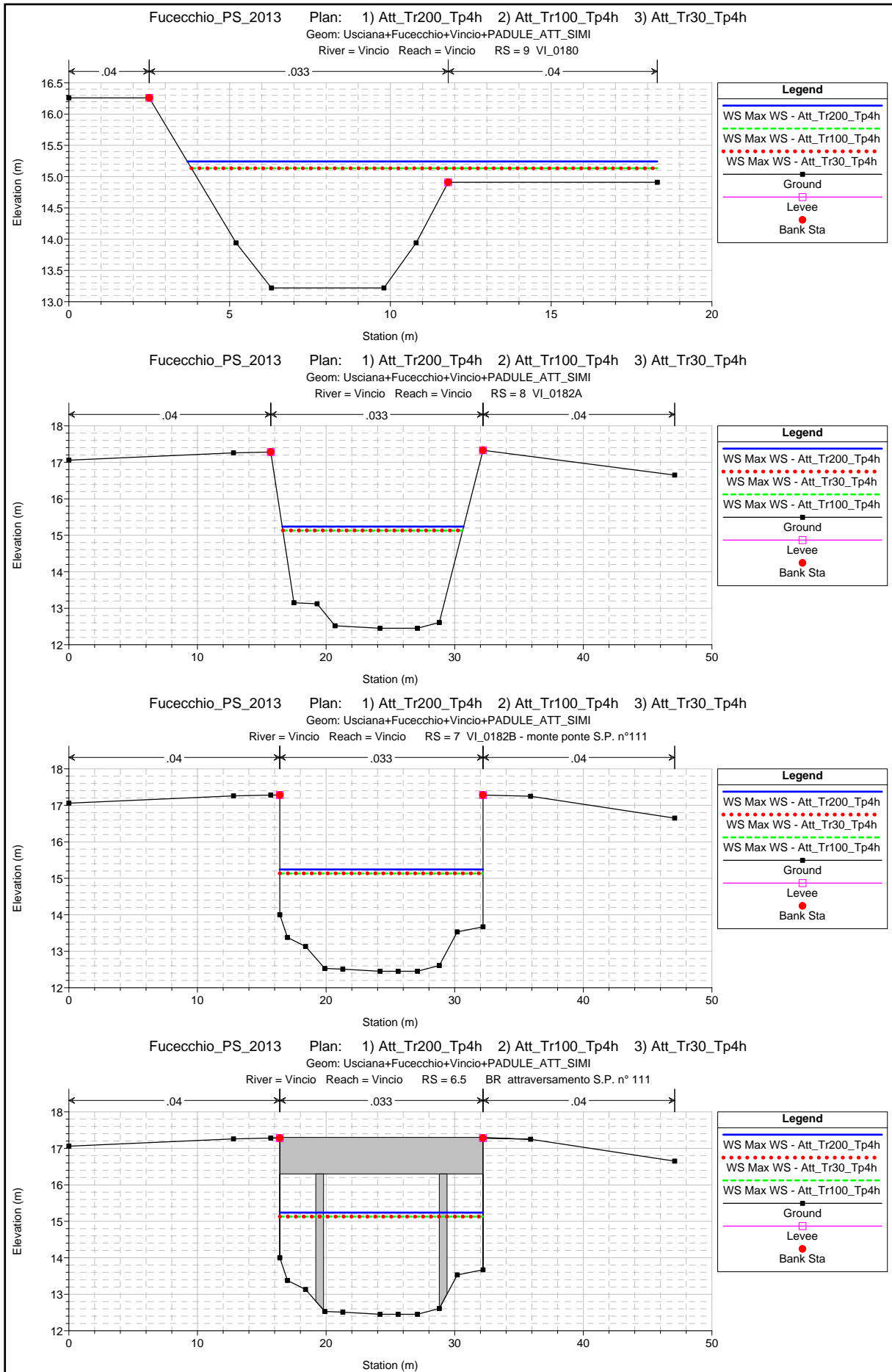
**Tr 200, 100 e 30 anni**

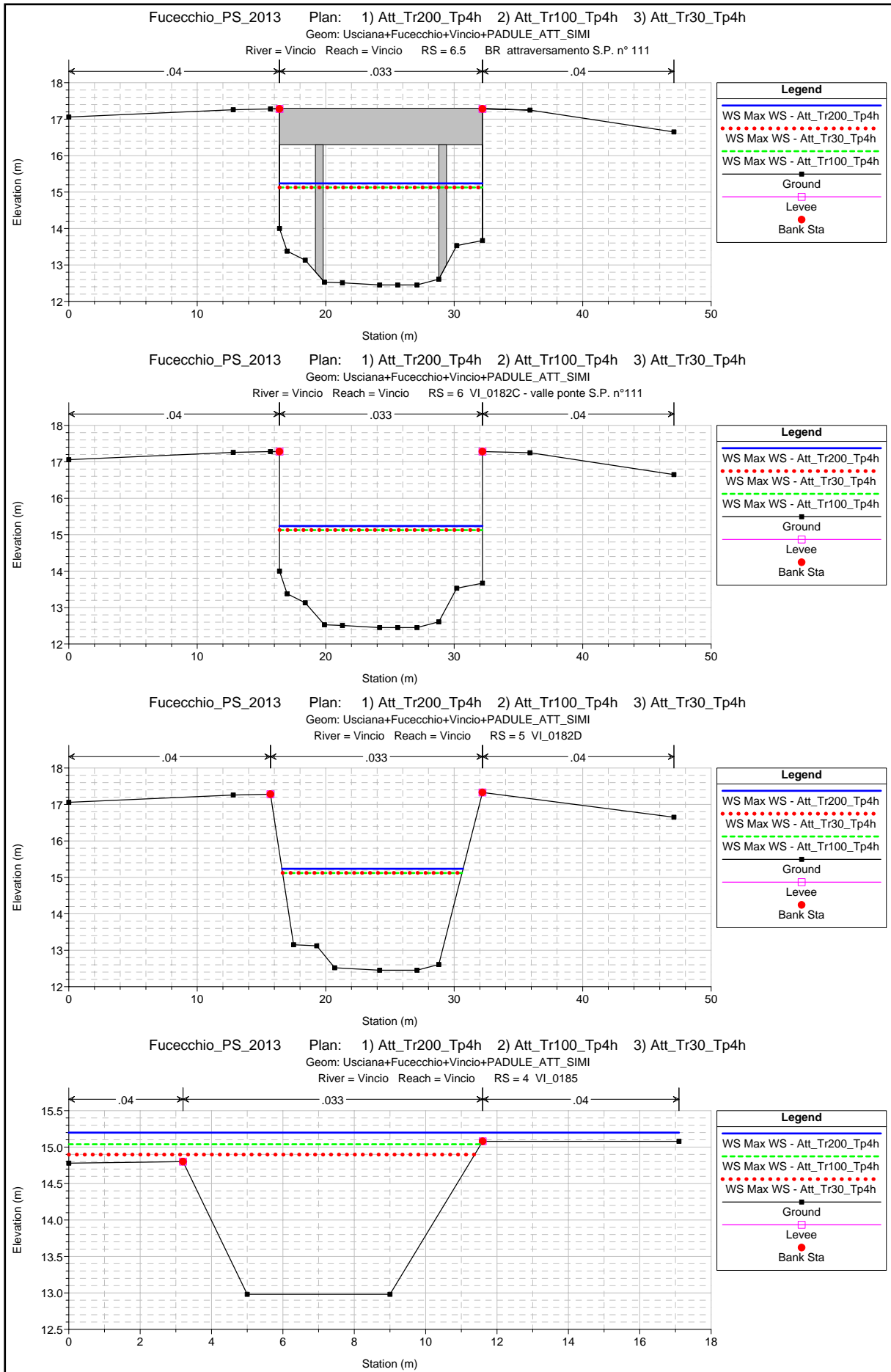
## **TORRENTE VINCIO**

- **Profili**
- **Sezioni**
- **Tabelle di Output**

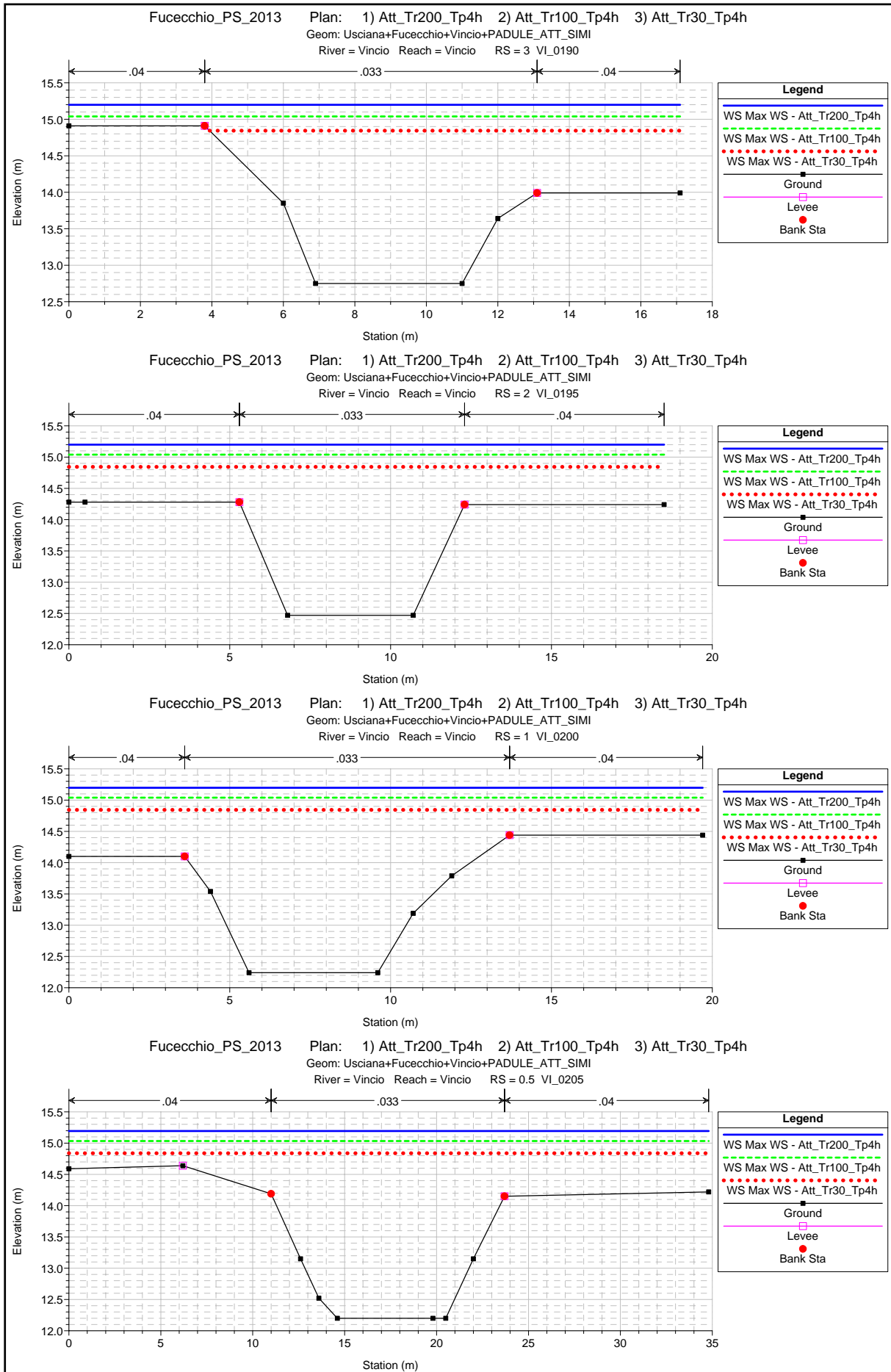
Fucecchio\_PS\_2013 Plan: 1) Att\_Tr200\_Tp4h 2) Att\_Tr100\_Tp4h 3) Att\_Tr30\_Tp4h  
 Geom: Usciana+Fucecchio+Vincio+PADULE\_ATT

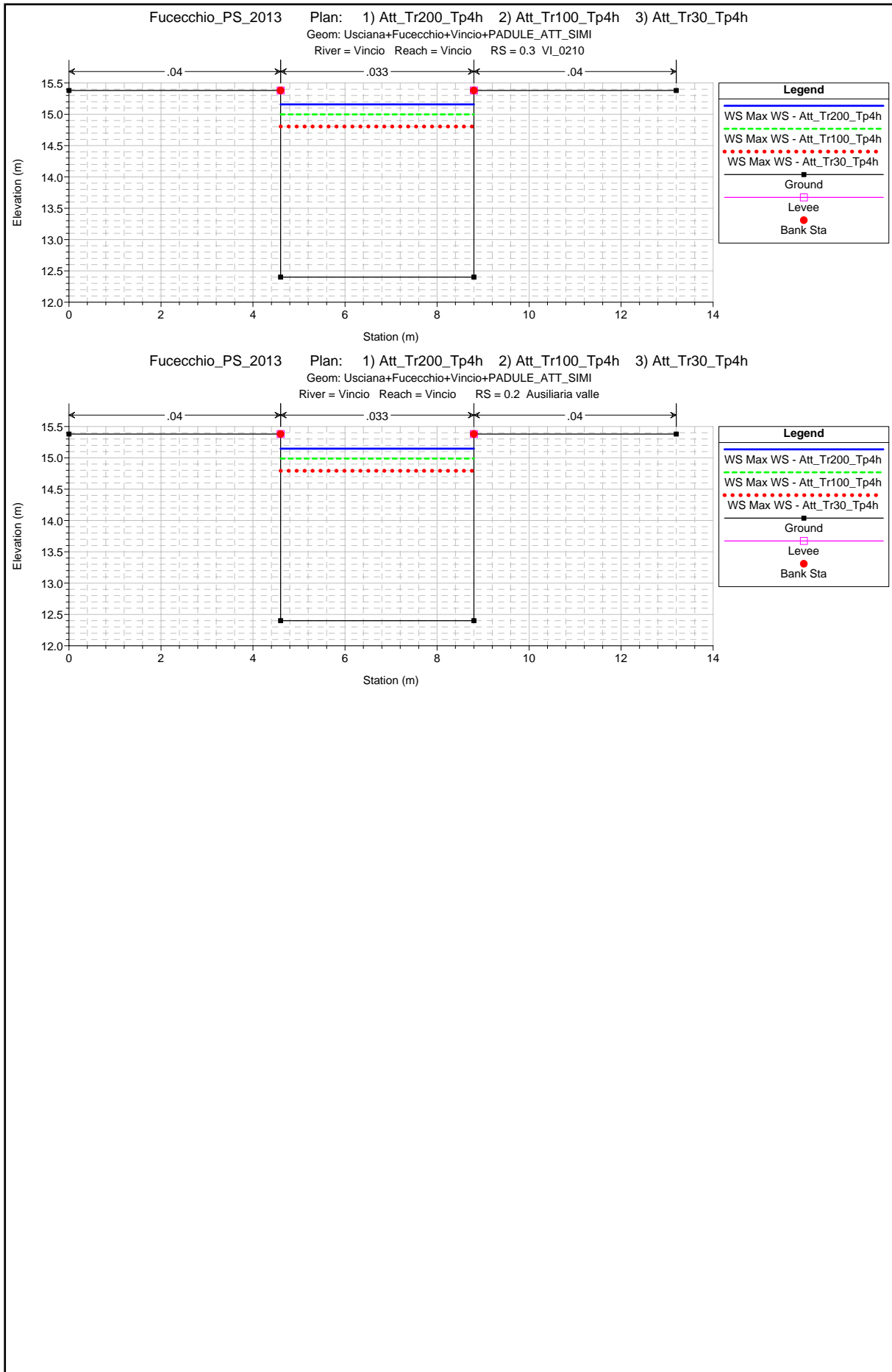












HEC-RAS River: Vincio Reach: Vincio Profile: Max WS

Reach	River Sta	Profile	Plan	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
Vincio	10	Max WS	Att_Tr200_Tp4h	145.23	13.37	16.96	17.16	18.28	0.011504	5.31	30.54	16.50	1.04
Vincio	10	Max WS	Att_Tr100_Tp4h	115.46	13.37	16.74	16.80	17.78	0.009938	4.69	27.12	13.90	0.96
Vincio	10	Max WS	Att_Tr30_Tp4h	84.64	13.37	16.43		17.22	0.008376	4.04	22.87	13.57	0.87
Vincio	9.8	Max WS	Att_Tr200_Tp4h	145.23	13.37	16.95	17.16	18.29	0.011789	5.35	30.26	16.50	1.06
Vincio	9.8	Max WS	Att_Tr100_Tp4h	115.45	13.37	16.73	16.80	17.78	0.010129	4.72	26.93	13.88	0.97
Vincio	9.8	Max WS	Att_Tr30_Tp4h	84.61	13.37	16.42		17.22	0.008555	4.07	22.68	13.56	0.88
Vincio	9.79			Lat Struct									
Vincio	9.78			Lat Struct									
Vincio	9	Max WS	Att_Tr200_Tp4h	11.30	13.22	15.24		15.28	0.000566	0.86	14.55	14.62	0.22
Vincio	9	Max WS	Att_Tr100_Tp4h	21.26	13.22	15.13		15.29	0.002622	1.79	12.95	14.49	0.48
Vincio	9	Max WS	Att_Tr30_Tp4h	21.03	13.22	15.13		15.29	0.002570	1.77	12.94	14.49	0.47
Vincio	8	Max WS	Att_Tr200_Tp4h	12.54	12.45	15.24		15.25	0.000065	0.38	32.95	14.10	0.08
Vincio	8	Max WS	Att_Tr100_Tp4h	20.42	12.45	15.13		15.15	0.000198	0.65	31.39	13.98	0.14
Vincio	8	Max WS	Att_Tr30_Tp4h	20.56	12.45	15.13		15.15	0.000201	0.65	31.42	13.98	0.14
Vincio	7	Max WS	Att_Tr200_Tp4h	12.54	12.45	15.24	13.06	15.25	0.000047	0.33	38.16	15.80	0.07
Vincio	7	Max WS	Att_Tr100_Tp4h	20.41	12.45	15.13	13.27	15.15	0.000144	0.56	36.46	15.80	0.12
Vincio	7	Max WS	Att_Tr30_Tp4h	20.54	12.45	15.14	13.27	15.15	0.000145	0.56	36.50	15.80	0.12
Vincio	6.5			Bridge									
Vincio	6	Max WS	Att_Tr200_Tp4h	12.53	12.45	15.24		15.24	0.000047	0.33	38.13	15.80	0.07
Vincio	6	Max WS	Att_Tr100_Tp4h	20.39	12.45	15.13		15.14	0.000145	0.56	36.36	15.80	0.12
Vincio	6	Max WS	Att_Tr30_Tp4h	20.54	12.45	15.13		15.14	0.000147	0.56	36.38	15.80	0.12
Vincio	5	Max WS	Att_Tr200_Tp4h	12.53	12.45	15.24		15.24	0.000065	0.38	32.91	14.10	0.08
Vincio	5	Max WS	Att_Tr100_Tp4h	20.39	12.45	15.12		15.14	0.000200	0.65	31.28	13.97	0.14
Vincio	5	Max WS	Att_Tr30_Tp4h	20.53	12.45	15.12		15.14	0.000203	0.66	31.29	13.97	0.14
Vincio	4.99			Lat Struct									
Vincio	4.98			Lat Struct									
Vincio	4	Max WS	Att_Tr200_Tp4h	11.12	12.98	15.20		15.23	0.000378	0.75	16.22	17.10	0.18

HEC-RAS River: Vincio Reach: Vincio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Vincio	4	Max WS	Att_Tr100_Tp4h	11.08	12.98	15.04		15.08	0.000538	0.84	13.73	11.55	0.22
Vincio	4	Max WS	Att_Tr30_Tp4h	20.34	12.98	14.90		15.05	0.002466	1.72	12.10	11.37	0.46
Vincio	3	Max WS	Att_Tr200_Tp4h	5.65	12.75	15.20		15.20	0.000045	0.28	22.99	17.10	0.07
Vincio	3	Max WS	Att_Tr100_Tp4h	5.41	12.75	15.04		15.04	0.000058	0.30	20.28	17.10	0.07
Vincio	3	Max WS	Att_Tr30_Tp4h	5.08	12.75	14.84		14.85	0.000078	0.33	17.20	13.16	0.08
Vincio	2	Max WS	Att_Tr200_Tp4h	-2.29	12.47	15.20		15.20	0.000005	-0.11	27.14	18.50	0.02
Vincio	2	Max WS	Att_Tr100_Tp4h	-2.10	12.47	15.04		15.04	0.000006	-0.11	24.20	18.50	0.02
Vincio	2	Max WS	Att_Tr30_Tp4h	-1.77	12.47	14.84		14.85	0.000007	-0.11	20.59	18.50	0.02
Vincio	1	Max WS	Att_Tr200_Tp4h	-6.89	12.24	15.20		15.20	0.000031	-0.26	30.94	19.70	0.06
Vincio	1	Max WS	Att_Tr100_Tp4h	-6.42	12.24	15.04		15.04	0.000036	-0.27	27.81	19.70	0.06
Vincio	1	Max WS	Att_Tr30_Tp4h	-5.80	12.24	14.84		14.85	0.000044	-0.28	23.97	19.70	0.07
Vincio	0.5	Max WS	Att_Tr200_Tp4h	12.42	12.20	15.19		15.20	0.000036	0.32	50.20	34.80	0.06
Vincio	0.5	Max WS	Att_Tr100_Tp4h	11.50	12.20	15.03		15.04	0.000041	0.33	44.66	34.80	0.07
Vincio	0.5	Max WS	Att_Tr30_Tp4h	10.38	12.20	14.84		14.84	0.000050	0.34	37.86	34.80	0.07
Vincio	0.3	Max WS	Att_Tr200_Tp4h	12.42	12.40	15.16		15.22	0.000990	1.07	11.58	4.20	0.21
Vincio	0.3	Max WS	Att_Tr100_Tp4h	11.50	12.40	15.00		15.06	0.000990	1.05	10.91	4.20	0.21
Vincio	0.3	Max WS	Att_Tr30_Tp4h	10.38	12.40	14.80		14.86	0.000989	1.03	10.10	4.20	0.21
Vincio	0.2	Max WS	Att_Tr200_Tp4h	12.42	12.40	15.15	13.36	15.21	0.001000	1.08	11.54	4.20	0.21
Vincio	0.2	Max WS	Att_Tr100_Tp4h	11.50	12.40	14.99	13.31	15.05	0.001000	1.06	10.87	4.20	0.21
Vincio	0.2	Max WS	Att_Tr30_Tp4h	10.38	12.40	14.79	13.25	14.85	0.001000	1.03	10.05	4.20	0.21

## **Scenario C**

- **Rio di Fucecchio (tratto a valle della sez. RF\_1150)**
- **Torrente Vincio**
- **Canale Usciana**
- **Rio Macone (solo Tr=30 anni)**

# **Scenario C**

**Tr 200, 100 e 30 anni**

## **RIO DI FUCECCHIO**

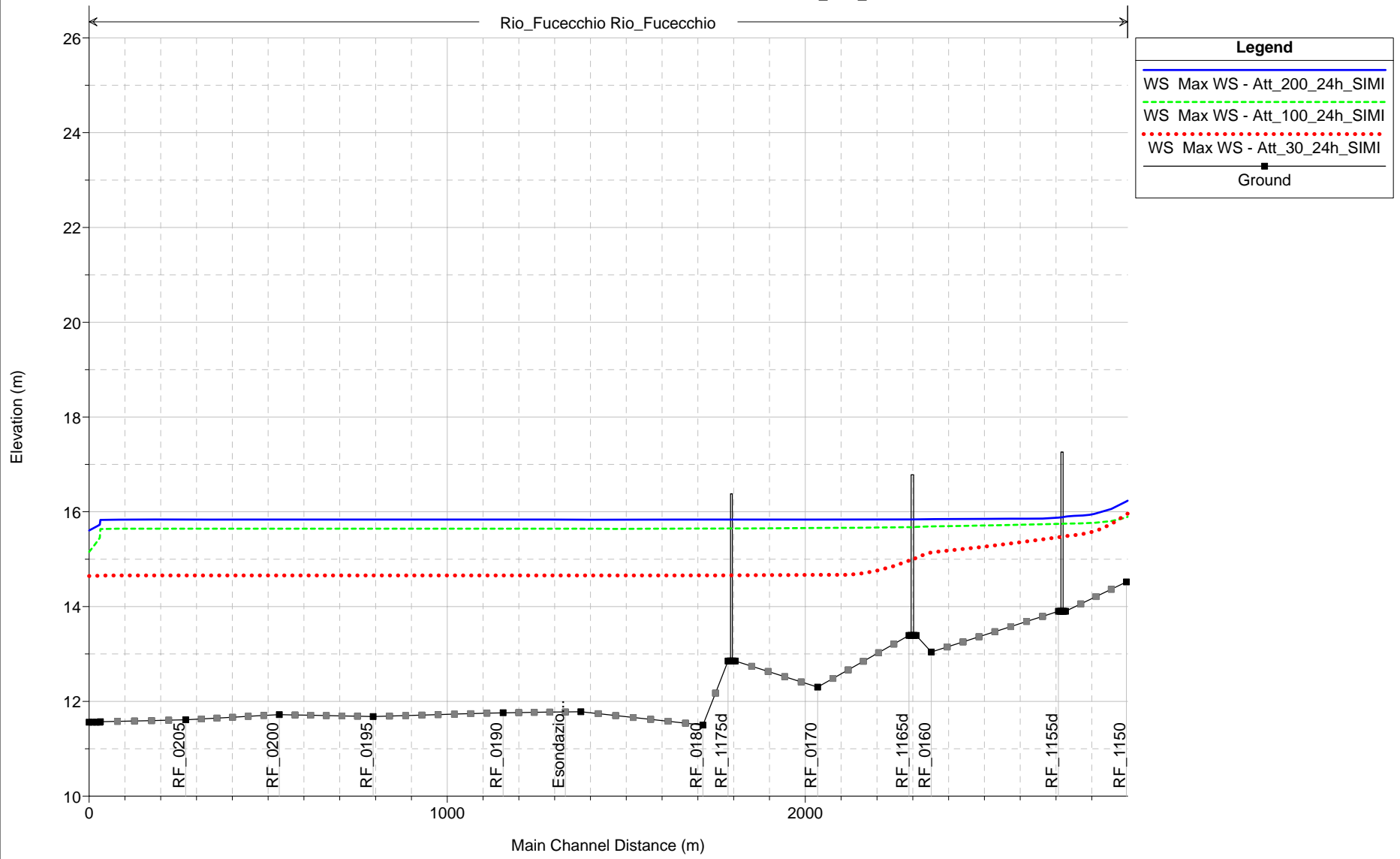
**Tratto a valle della sez. RF\_1150**

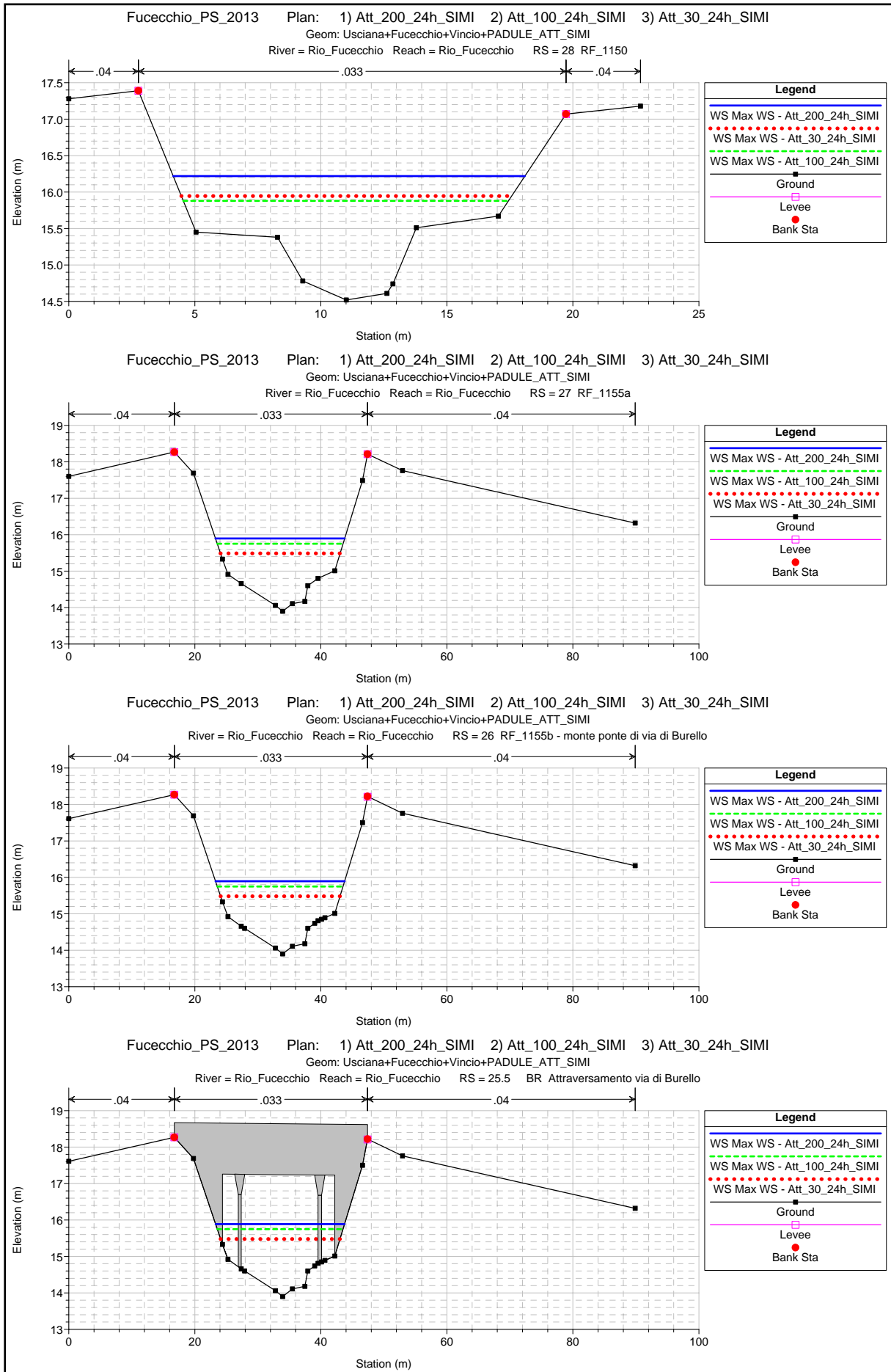
- **Profili**
- **Sezioni**
- **Tablelle di Output**

Fucecchio\_PS\_2013 Plan: 1) Att\_200\_24h\_SIMI 2) Att\_100\_24h\_SIMI 3) Att\_30\_24h\_SIMI

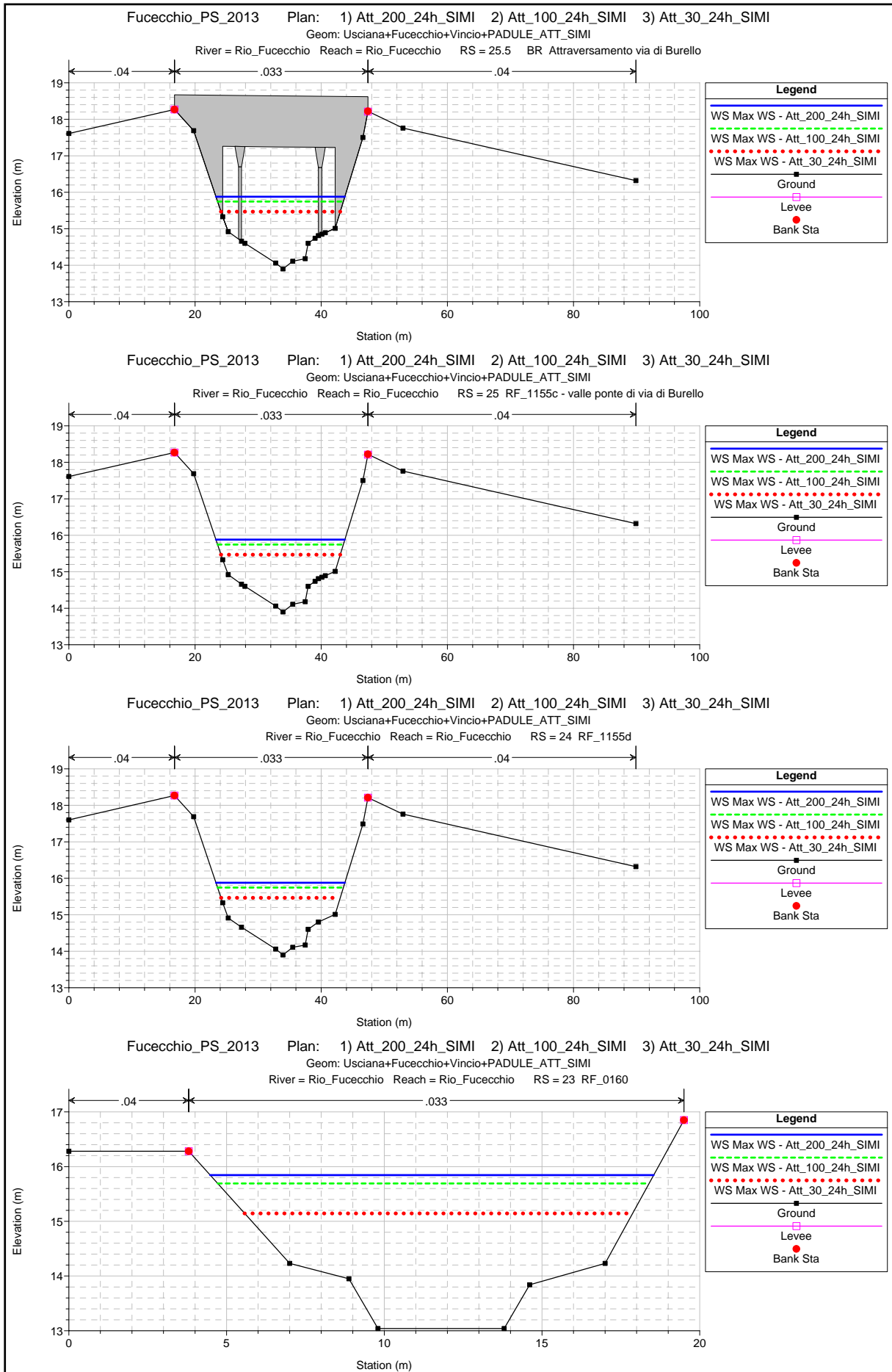
Geom: Usciana+Fucecchio+Vincio+PADULE\_ATT\_SIMI

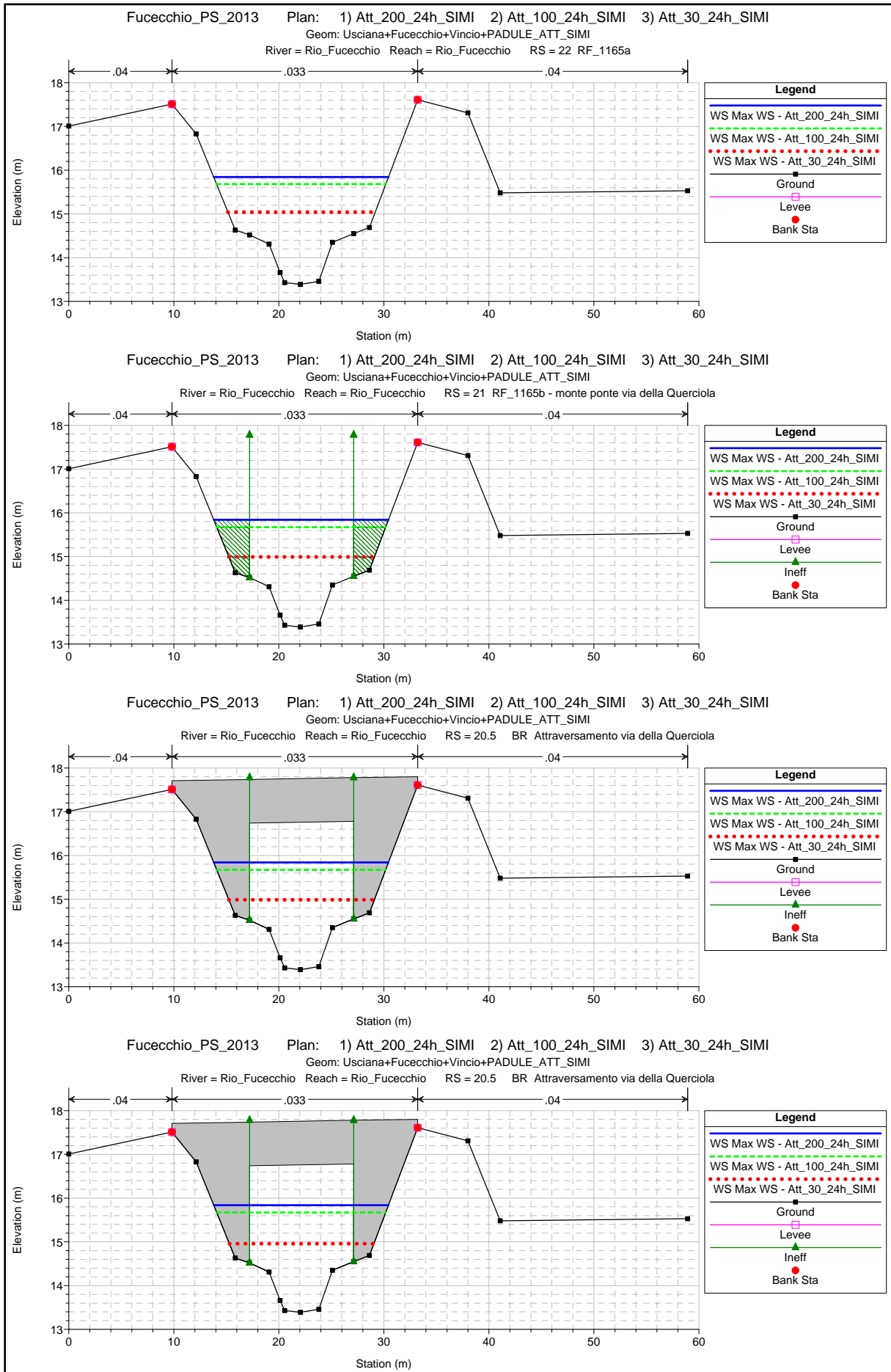
Rio\_Fucecchio Rio\_Fucecchio

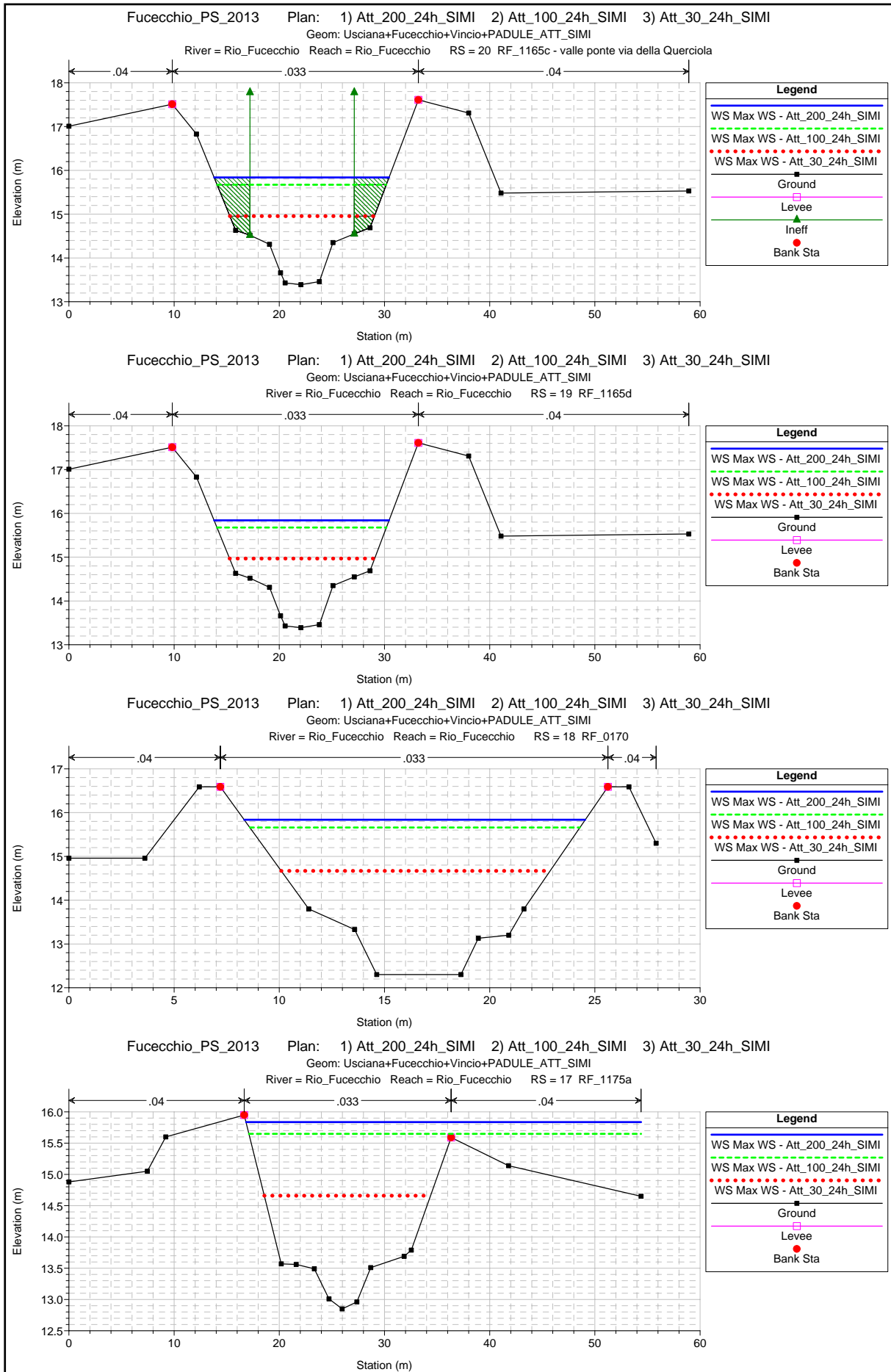


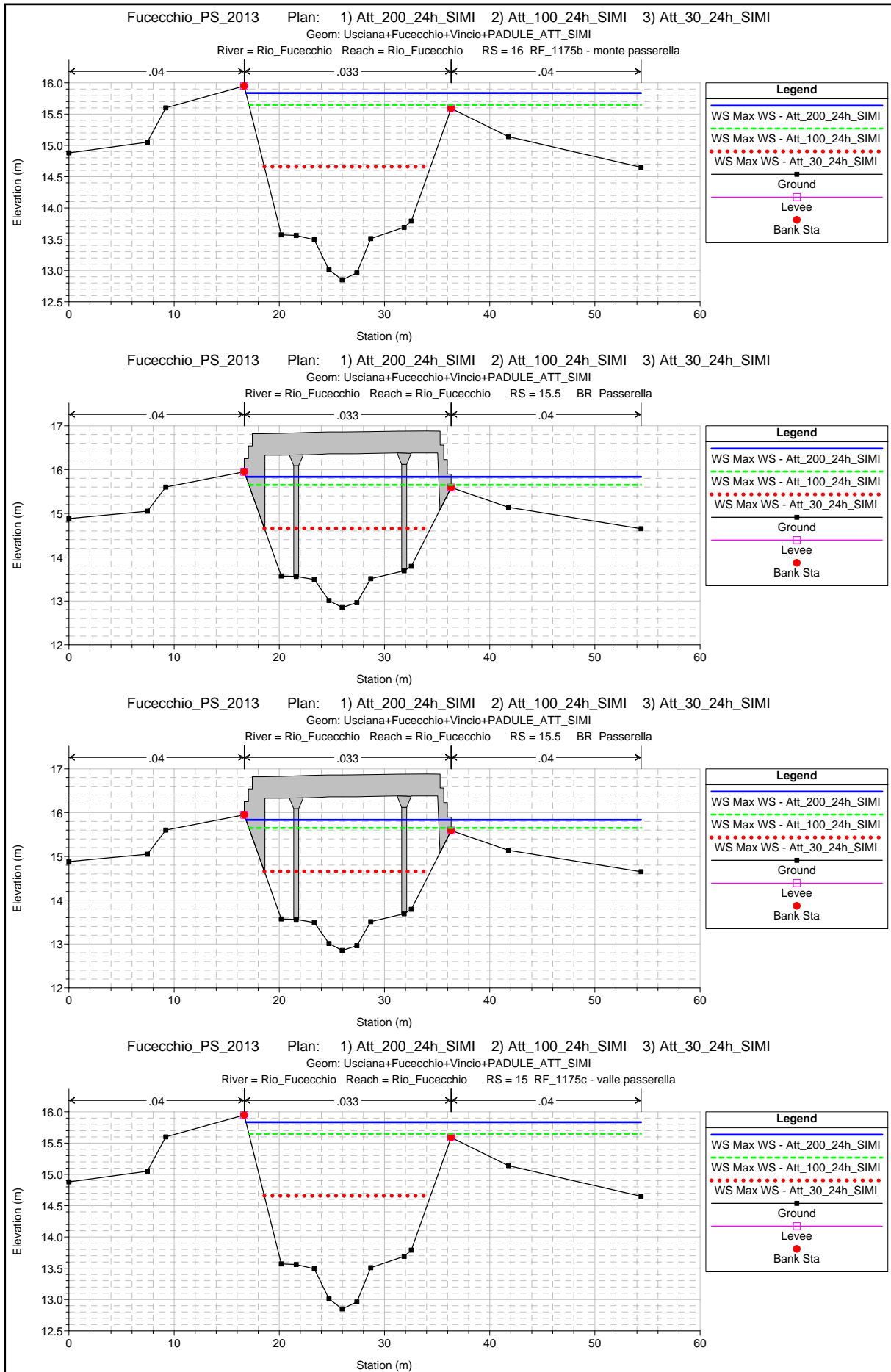


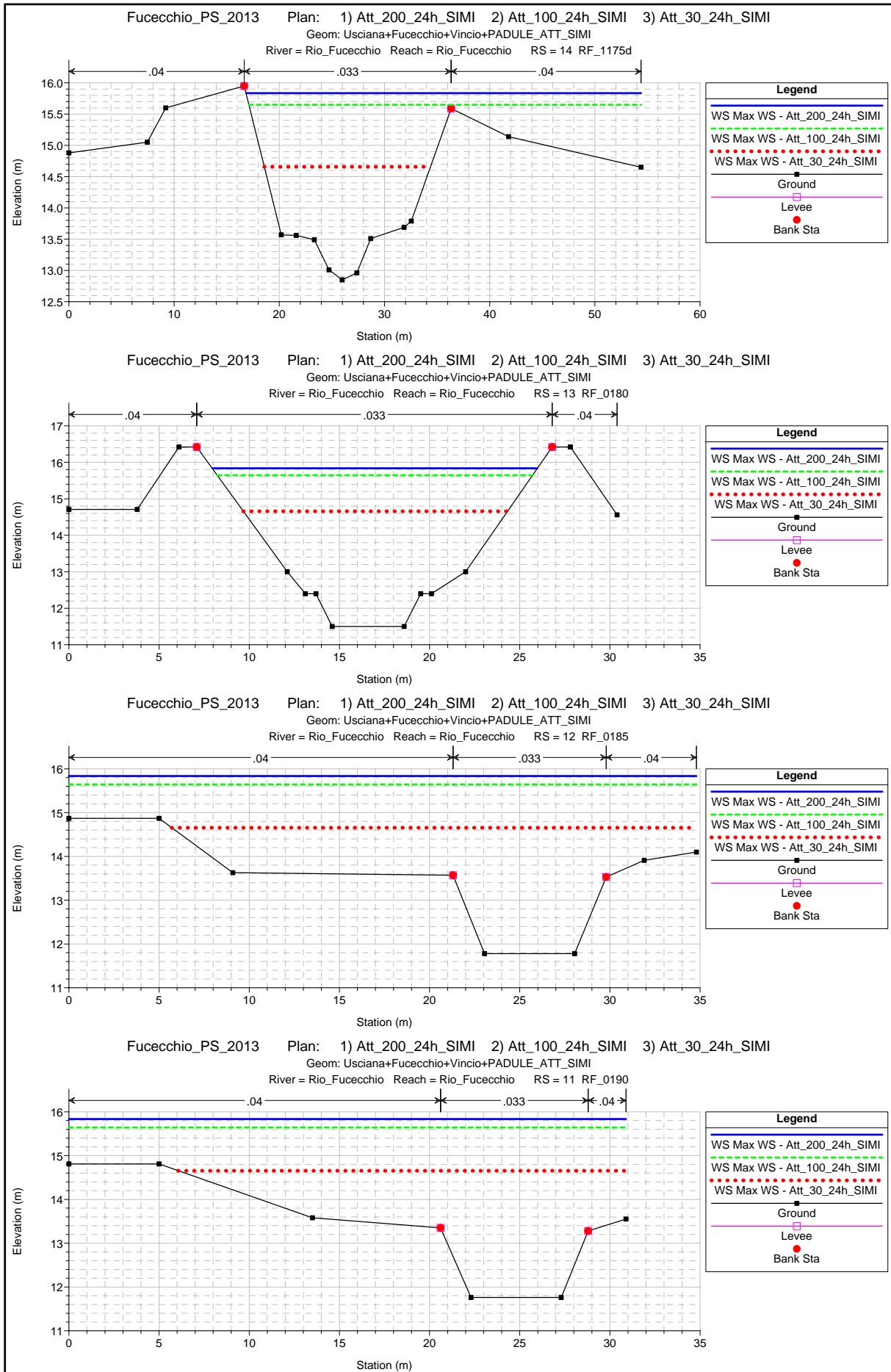


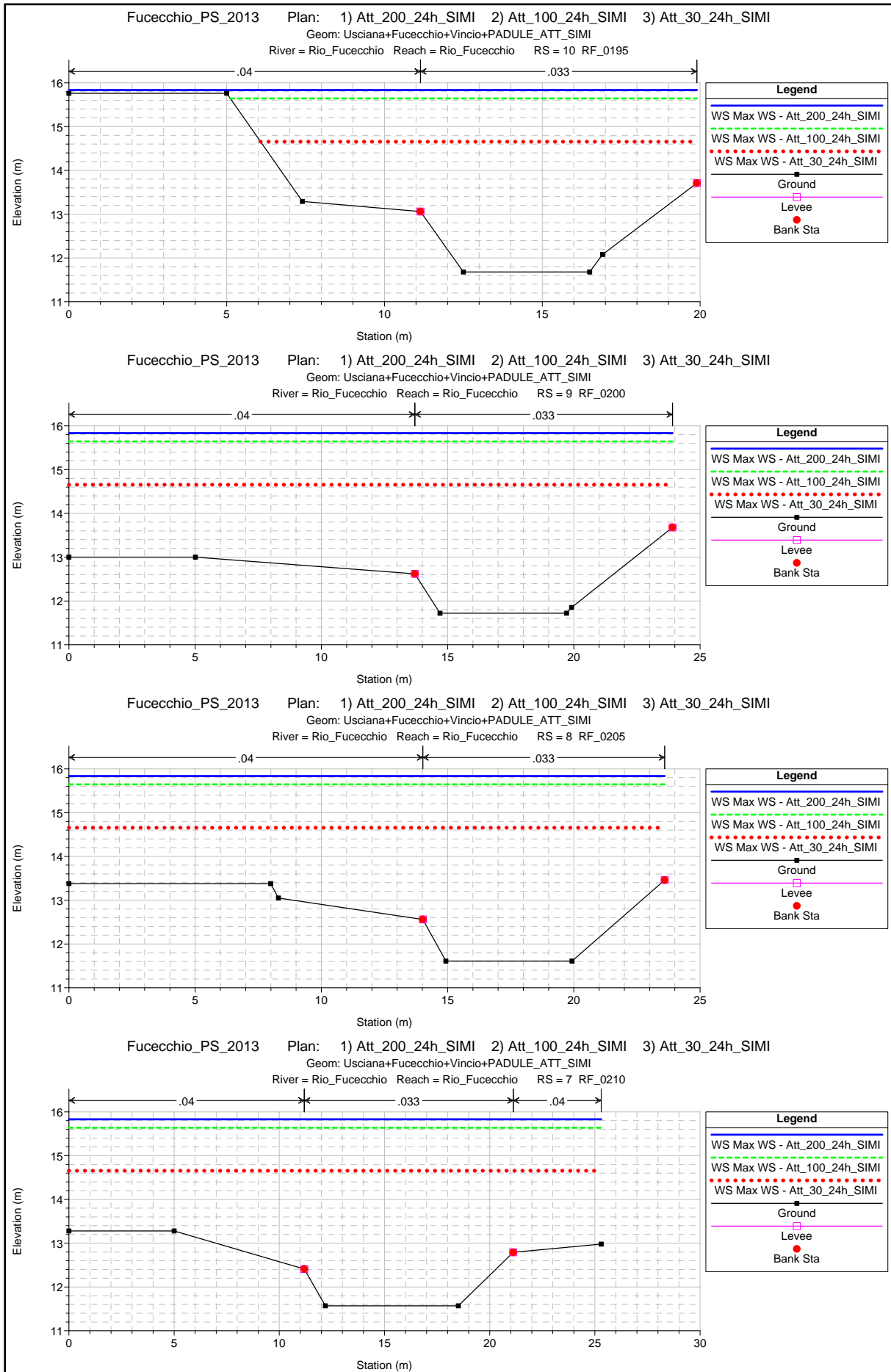


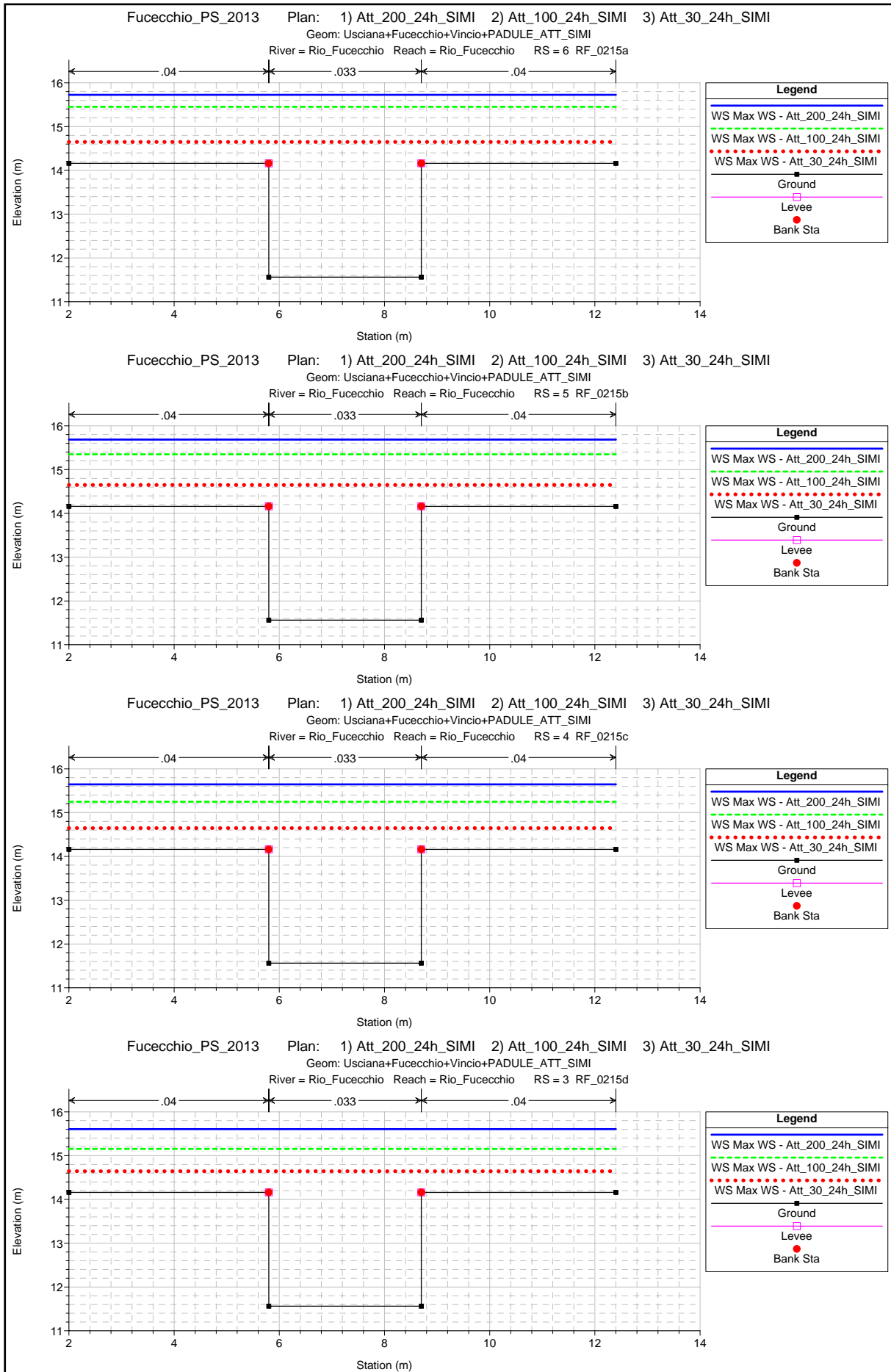












HEC-RAS Locations: User Defined Profile: Max WS

River	Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	Rio_Fucecchio	28	Max WS	Att_200_24h_SIMI	26.65	14.52	16.22		16.43	0.005236	2.02	13.18	13.95	0.66
Rio_Fucecchio	Rio_Fucecchio	28	Max WS	Att_100_24h_SIMI	10.97	14.52	15.88		15.96	0.003238	1.27	8.63	12.90	0.50
Rio_Fucecchio	Rio_Fucecchio	28	Max WS	Att_30_24h_SIMI	16.14	14.52	15.95		16.09	0.005233	1.70	9.48	13.10	0.64
Rio_Fucecchio	Rio_Fucecchio	27	Max WS	Att_200_24h_SIMI	26.54	13.90	15.90		15.95	0.000835	1.01	26.29	20.51	0.28
Rio_Fucecchio	Rio_Fucecchio	27	Max WS	Att_100_24h_SIMI	10.97	13.90	15.75		15.76	0.000205	0.47	23.30	19.96	0.14
Rio_Fucecchio	Rio_Fucecchio	27	Max WS	Att_30_24h_SIMI	16.14	13.90	15.49		15.53	0.000943	0.89	18.18	18.98	0.29
Rio_Fucecchio	Rio_Fucecchio	26	Max WS	Att_200_24h_SIMI	26.54	13.90	15.89	15.08	15.95	0.000849	1.02	26.14	20.49	0.29
Rio_Fucecchio	Rio_Fucecchio	26	Max WS	Att_100_24h_SIMI	10.97	13.90	15.75	14.72	15.76	0.000207	0.47	23.23	19.95	0.14
Rio_Fucecchio	Rio_Fucecchio	26	Max WS	Att_30_24h_SIMI	16.14	13.90	15.48	14.88	15.52	0.000968	0.90	18.03	18.96	0.29
Rio_Fucecchio	Rio_Fucecchio	25.5			Bridge									
Rio_Fucecchio	Rio_Fucecchio	25	Max WS	Att_200_24h_SIMI	26.54	13.90	15.88		15.93	0.000874	1.03	25.89	20.44	0.29
Rio_Fucecchio	Rio_Fucecchio	25	Max WS	Att_100_24h_SIMI	10.97	13.90	15.75		15.76	0.000209	0.47	23.17	19.94	0.14
Rio_Fucecchio	Rio_Fucecchio	25	Max WS	Att_30_24h_SIMI	16.14	13.90	15.47		15.51	0.001009	0.91	17.78	18.91	0.30
Rio_Fucecchio	Rio_Fucecchio	24.9			Lat Struct									
Rio_Fucecchio	Rio_Fucecchio	24.8			Lat Struct									
Rio_Fucecchio	Rio_Fucecchio	24	Max WS	Att_200_24h_SIMI	26.54	13.90	15.88		15.93	0.000879	1.03	25.85	20.43	0.29
Rio_Fucecchio	Rio_Fucecchio	24	Max WS	Att_100_24h_SIMI	10.97	13.90	15.75		15.76	0.000208	0.47	23.20	19.95	0.14
Rio_Fucecchio	Rio_Fucecchio	24	Max WS	Att_30_24h_SIMI	16.14	13.90	15.46		15.51	0.001018	0.91	17.73	18.90	0.30
Rio_Fucecchio	Rio_Fucecchio	23	Max WS	Att_200_24h_SIMI	6.58	13.04	15.84		15.85	0.000035	0.25	26.23	14.06	0.06
Rio_Fucecchio	Rio_Fucecchio	23	Max WS	Att_100_24h_SIMI	10.97	13.04	15.69		15.70	0.000125	0.46	24.10	13.68	0.11
Rio_Fucecchio	Rio_Fucecchio	23	Max WS	Att_30_24h_SIMI	16.14	13.04	15.14		15.19	0.000736	0.95	17.01	12.30	0.26
Rio_Fucecchio	Rio_Fucecchio	22	Max WS	Att_200_24h_SIMI	6.57	13.39	15.84		15.85	0.000050	0.27	24.66	16.64	0.07
Rio_Fucecchio	Rio_Fucecchio	22	Max WS	Att_100_24h_SIMI	10.97	13.39	15.68		15.69	0.000195	0.50	22.03	16.11	0.14
Rio_Fucecchio	Rio_Fucecchio	22	Max WS	Att_30_24h_SIMI	16.14	13.39	15.04		15.13	0.002355	1.31	12.36	14.02	0.44
Rio_Fucecchio	Rio_Fucecchio	21	Max WS	Att_200_24h_SIMI	6.57	13.39	15.84	14.09	15.85	0.000061	0.35	18.80	16.63	0.08
Rio_Fucecchio	Rio_Fucecchio	21	Max WS	Att_100_24h_SIMI	10.97	13.39	15.67	14.33	15.69	0.000231	0.64	17.14	16.08	0.16
Rio_Fucecchio	Rio_Fucecchio	21	Max WS	Att_30_24h_SIMI	16.14	13.39	14.99	14.59	15.11	0.002657	1.55	10.38	13.86	0.48
Rio_Fucecchio	Rio_Fucecchio	20.5			Bridge									
Rio_Fucecchio	Rio_Fucecchio	20	Max WS	Att_200_24h_SIMI	6.57	13.39	15.84		15.85	0.000061	0.35	18.79	16.62	0.08
Rio_Fucecchio	Rio_Fucecchio	20	Max WS	Att_100_24h_SIMI	10.97	13.39	15.67		15.69	0.000232	0.64	17.12	16.07	0.16
Rio_Fucecchio	Rio_Fucecchio	20	Max WS	Att_30_24h_SIMI	16.14	13.39	14.95		15.09	0.003000	1.61	10.01	13.73	0.51
Rio_Fucecchio	Rio_Fucecchio	19.9			Lat Struct									



HEC-RAS Locations: User Defined Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	Rio_Fucecchio	19.8			Lat Struct									
Rio_Fucecchio	Rio_Fucecchio	19	Max WS	Att_200_24h_SIMI	6.57	13.39	15.84		15.85	0.000050	0.27	24.64	16.63	0.07
Rio_Fucecchio	Rio_Fucecchio	19	Max WS	Att_100_24h_SIMI	10.97	13.39	15.68		15.69	0.000197	0.50	21.96	16.10	0.14
Rio_Fucecchio	Rio_Fucecchio	19	Max WS	Att_30_24h_SIMI	16.14	13.39	14.97		15.07	0.003036	1.42	11.37	13.78	0.50
Rio_Fucecchio	Rio_Fucecchio	18	Max WS	Att_200_24h_SIMI	6.56	12.30	15.84		15.84	0.000014	0.18	36.50	16.21	0.04
Rio_Fucecchio	Rio_Fucecchio	18	Max WS	Att_100_24h_SIMI	10.97	12.30	15.66		15.66	0.000050	0.33	33.67	15.69	0.07
Rio_Fucecchio	Rio_Fucecchio	18	Max WS	Att_30_24h_SIMI	3.79	12.30	14.67		14.67	0.000027	0.19	19.58	12.78	0.05
Rio_Fucecchio	Rio_Fucecchio	17	Max WS	Att_200_24h_SIMI	3.56	12.85	15.84		15.84	0.000003	0.08	53.05	37.55	0.02
Rio_Fucecchio	Rio_Fucecchio	17	Max WS	Att_100_24h_SIMI	10.88	12.85	15.65		15.65	0.000041	0.28	46.07	37.27	0.07
Rio_Fucecchio	Rio_Fucecchio	17	Max WS	Att_30_24h_SIMI	3.76	12.85	14.66		14.66	0.000045	0.21	17.63	15.80	0.06
Rio_Fucecchio	Rio_Fucecchio	16	Max WS	Att_200_24h_SIMI	3.56	12.85	15.84	13.43	15.84	0.000003	0.08	53.05	37.55	0.02
Rio_Fucecchio	Rio_Fucecchio	16	Max WS	Att_100_24h_SIMI	10.88	12.85	15.65	13.80	15.65	0.000041	0.28	46.06	37.27	0.07
Rio_Fucecchio	Rio_Fucecchio	16	Max WS	Att_30_24h_SIMI	3.75	12.85	14.66	13.44	14.66	0.000045	0.21	17.63	15.80	0.06
Rio_Fucecchio	Rio_Fucecchio	15.5			Bridge									
Rio_Fucecchio	Rio_Fucecchio	15	Max WS	Att_200_24h_SIMI	3.55	12.85	15.84		15.84	0.000003	0.08	53.04	37.55	0.02
Rio_Fucecchio	Rio_Fucecchio	15	Max WS	Att_100_24h_SIMI	10.88	12.85	15.65		15.65	0.000041	0.28	46.03	37.27	0.07
Rio_Fucecchio	Rio_Fucecchio	15	Max WS	Att_30_24h_SIMI	3.73	12.85	14.66		14.66	0.000045	0.21	17.62	15.80	0.06
Rio_Fucecchio	Rio_Fucecchio	14	Max WS	Att_200_24h_SIMI	3.56	12.85	15.84		15.84	0.000003	0.08	53.04	37.55	0.02
Rio_Fucecchio	Rio_Fucecchio	14	Max WS	Att_100_24h_SIMI	10.88	12.85	15.65		15.65	0.000041	0.28	46.02	37.27	0.07
Rio_Fucecchio	Rio_Fucecchio	14	Max WS	Att_30_24h_SIMI	3.73	12.85	14.66		14.66	0.000045	0.21	17.61	15.80	0.06
Rio_Fucecchio	Rio_Fucecchio	13.9			Lat Struct									
Rio_Fucecchio	Rio_Fucecchio	13.8			Lat Struct									
Rio_Fucecchio	Rio_Fucecchio	13	Max WS	Att_200_24h_SIMI	2.45	11.50	15.84		15.84	0.000001	0.05	49.06	18.03	0.01
Rio_Fucecchio	Rio_Fucecchio	13	Max WS	Att_100_24h_SIMI	10.85	11.50	15.65		15.65	0.000021	0.24	45.70	17.49	0.05
Rio_Fucecchio	Rio_Fucecchio	13	Max WS	Att_30_24h_SIMI	3.73	11.50	14.66		14.66	0.000008	0.12	29.82	14.65	0.03
Rio_Fucecchio	Rio_Fucecchio	12	Max WS	Att_200_24h_SIMI	-3.18	11.78	15.84		15.84	0.000001	-0.06	79.75	34.80	0.01
Rio_Fucecchio	Rio_Fucecchio	12	Max WS	Att_100_24h_SIMI	3.36	11.78	15.64		15.64	0.000001	0.06	73.07	34.80	0.01
Rio_Fucecchio	Rio_Fucecchio	12	Max WS	Att_30_24h_SIMI	3.71	11.78	14.66		14.66	0.000006	0.12	39.81	29.09	0.03
Rio_Fucecchio	Rio_Fucecchio	11.8			Lat Struct									
Rio_Fucecchio	Rio_Fucecchio	11	Max WS	Att_200_24h_SIMI	-1.80	11.76	15.84		15.84	0.000000	-0.03	71.89	30.89	0.01
Rio_Fucecchio	Rio_Fucecchio	11	Max WS	Att_100_24h_SIMI	1.92	11.76	15.64		15.64	0.000000	0.04	65.96	30.89	0.01

HEC-RAS Locations: User Defined Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	Rio_Fucecchio	11	Max WS	Att_30_24h_SIMI	1.96	11.76	14.66		14.66	0.000002	0.07	36.28	24.82	0.01
Rio_Fucecchio	Rio_Fucecchio	10	Max WS	Att_200_24h_SIMI	-2.11	11.68	15.84		15.84	0.000001	-0.06	45.24	19.90	0.01
Rio_Fucecchio	Rio_Fucecchio	10	Max WS	Att_100_24h_SIMI	-1.98	11.68	15.64		15.64	0.000001	-0.05	42.00	14.79	0.01
Rio_Fucecchio	Rio_Fucecchio	10	Max WS	Att_30_24h_SIMI	0.77	11.68	14.66		14.66	0.000000	0.03	27.86	13.83	0.01
Rio_Fucecchio	Rio_Fucecchio	9	Max WS	Att_200_24h_SIMI	-3.79	11.72	15.84		15.84	0.000001	-0.06	77.90	23.91	0.01
Rio_Fucecchio	Rio_Fucecchio	9	Max WS	Att_100_24h_SIMI	-4.74	11.72	15.64		15.64	0.000002	-0.07	73.30	23.91	0.01
Rio_Fucecchio	Rio_Fucecchio	9	Max WS	Att_30_24h_SIMI	0.46	11.72	14.66		14.66	0.000000	0.01	49.67	23.91	0.00
Rio_Fucecchio	Rio_Fucecchio	8	Max WS	Att_200_24h_SIMI	-9.81	11.61	15.84		15.84	0.000006	-0.15	74.44	23.60	0.03
Rio_Fucecchio	Rio_Fucecchio	8	Max WS	Att_100_24h_SIMI	-11.69	11.61	15.64		15.65	0.000011	-0.20	69.91	23.60	0.03
Rio_Fucecchio	Rio_Fucecchio	8	Max WS	Att_30_24h_SIMI	0.45	11.61	14.66		14.66	0.000000	0.01	46.57	23.60	0.00
Rio_Fucecchio	Rio_Fucecchio	7	Max WS	Att_200_24h_SIMI	21.34	11.57	15.83		15.83	0.000020	0.33	83.82	25.30	0.05
Rio_Fucecchio	Rio_Fucecchio	7	Max WS	Att_100_24h_SIMI	24.27	11.57	15.64		15.64	0.000031	0.40	78.92	25.30	0.06
Rio_Fucecchio	Rio_Fucecchio	7	Max WS	Att_30_24h_SIMI	3.06	11.57	14.66		14.66	0.000002	0.07	54.10	25.30	0.01
Rio_Fucecchio	Rio_Fucecchio	6	Max WS	Att_200_24h_SIMI	22.68	11.56	15.73		15.78	0.001131	1.10	23.83	10.40	0.17
Rio_Fucecchio	Rio_Fucecchio	6	Max WS	Att_100_24h_SIMI	30.97	11.56	15.45		15.58	0.003039	1.73	20.97	10.40	0.28
Rio_Fucecchio	Rio_Fucecchio	6	Max WS	Att_30_24h_SIMI	3.70	11.56	14.65		14.66	0.000166	0.35	12.64	10.40	0.06
Rio_Fucecchio	Rio_Fucecchio	5	Max WS	Att_200_24h_SIMI	22.64	11.56	15.69		15.74	0.001184	1.12	23.41	10.40	0.18
Rio_Fucecchio	Rio_Fucecchio	5	Max WS	Att_100_24h_SIMI	30.94	11.56	15.35		15.49	0.003509	1.83	19.92	10.40	0.30
Rio_Fucecchio	Rio_Fucecchio	5	Max WS	Att_30_24h_SIMI	3.70	11.56	14.65		14.65	0.000167	0.35	12.62	10.40	0.06
Rio_Fucecchio	Rio_Fucecchio	4	Max WS	Att_200_24h_SIMI	22.61	11.56	15.65		15.70	0.001245	1.14	22.99	10.40	0.18
Rio_Fucecchio	Rio_Fucecchio	4	Max WS	Att_100_24h_SIMI	28.19	11.56	15.25		15.38	0.003404	1.77	18.84	10.40	0.29
Rio_Fucecchio	Rio_Fucecchio	4	Max WS	Att_30_24h_SIMI	3.70	11.56	14.65		14.65	0.000168	0.35	12.60	10.40	0.06
Rio_Fucecchio	Rio_Fucecchio	3	Max WS	Att_200_24h_SIMI	22.59	11.56	15.60		15.66	0.001312	1.17	22.56	10.40	0.19
Rio_Fucecchio	Rio_Fucecchio	3	Max WS	Att_100_24h_SIMI	28.15	11.56	15.15		15.30	0.003934	1.87	17.87	10.40	0.31
Rio_Fucecchio	Rio_Fucecchio	3	Max WS	Att_30_24h_SIMI	3.70	11.56	14.64		14.65	0.000168	0.35	12.58	10.40	0.06

# **Scenario C**

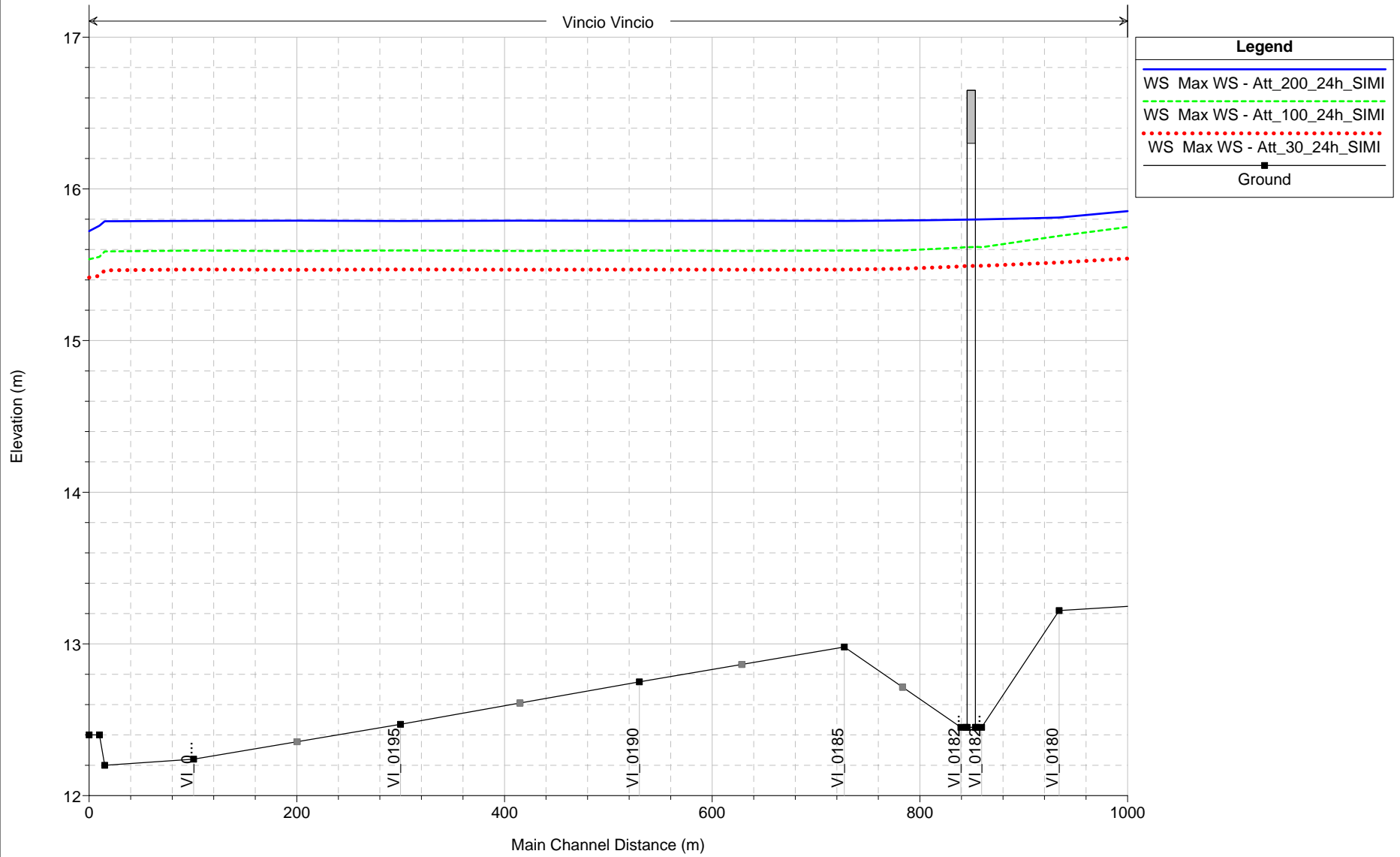
**Tr 200, 100 e 30 anni**

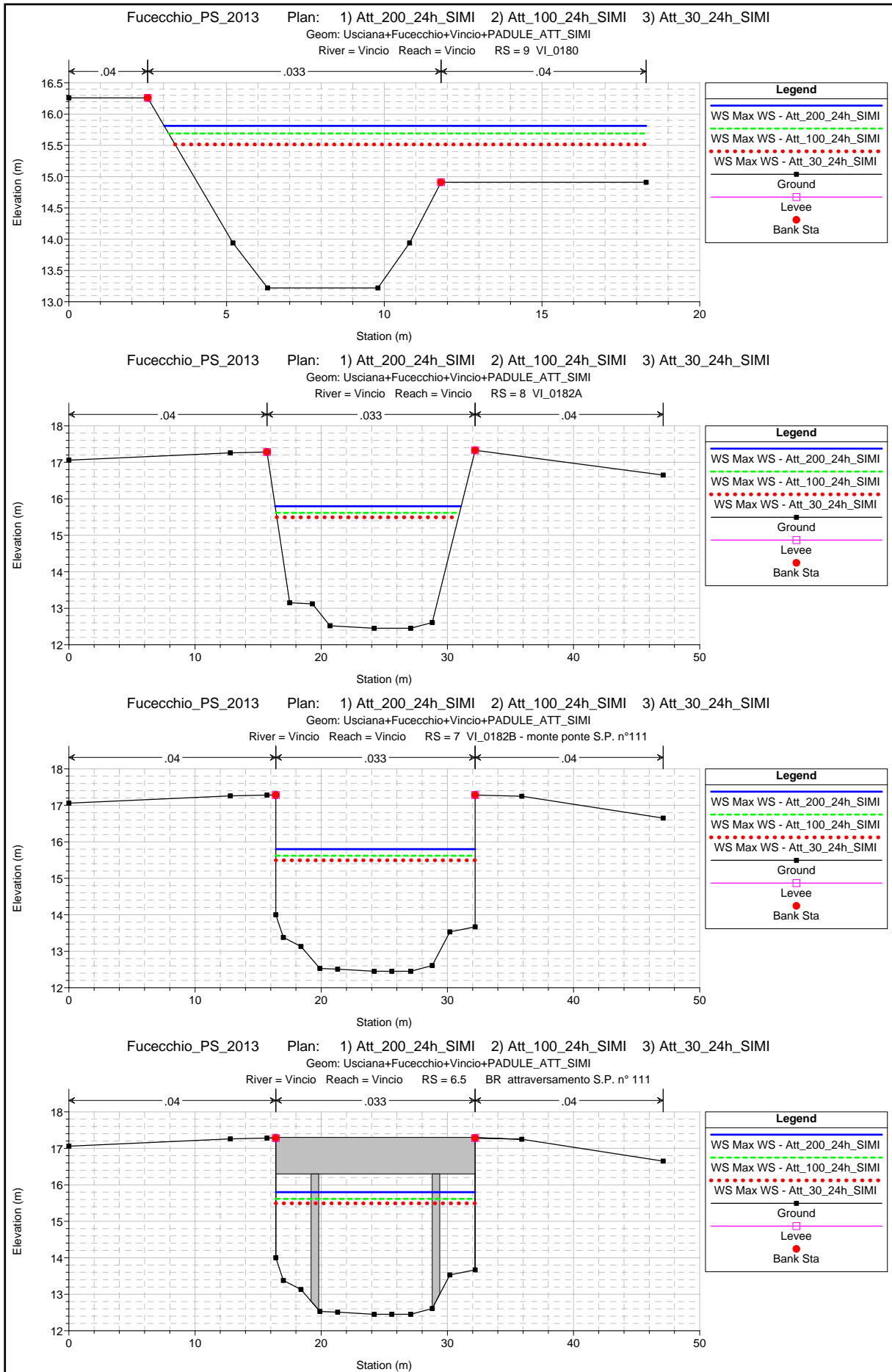
## **TORRENTE VINCIO**

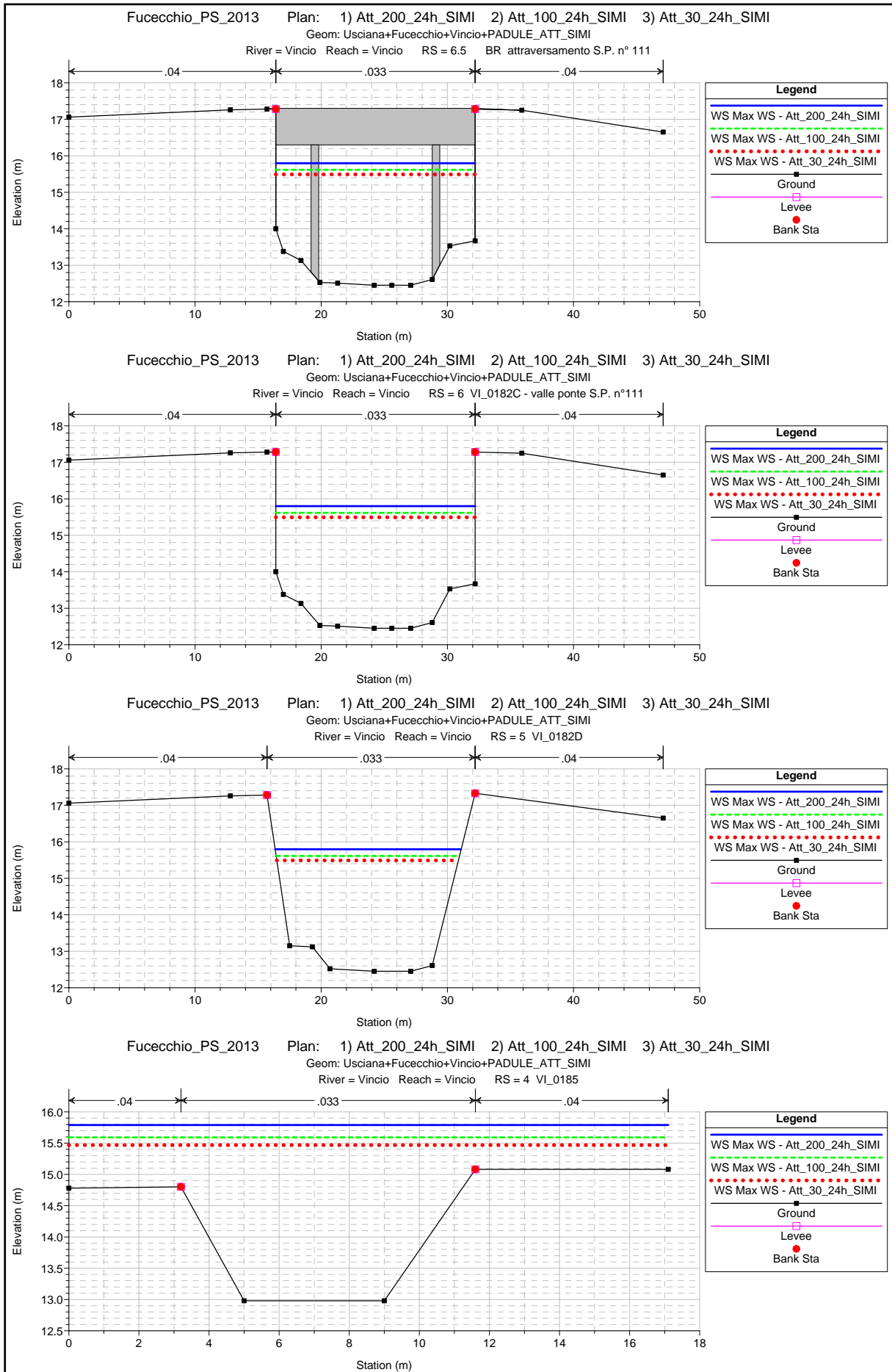
- **Profili**
- **Sezioni**
- **Tabelle di Output**

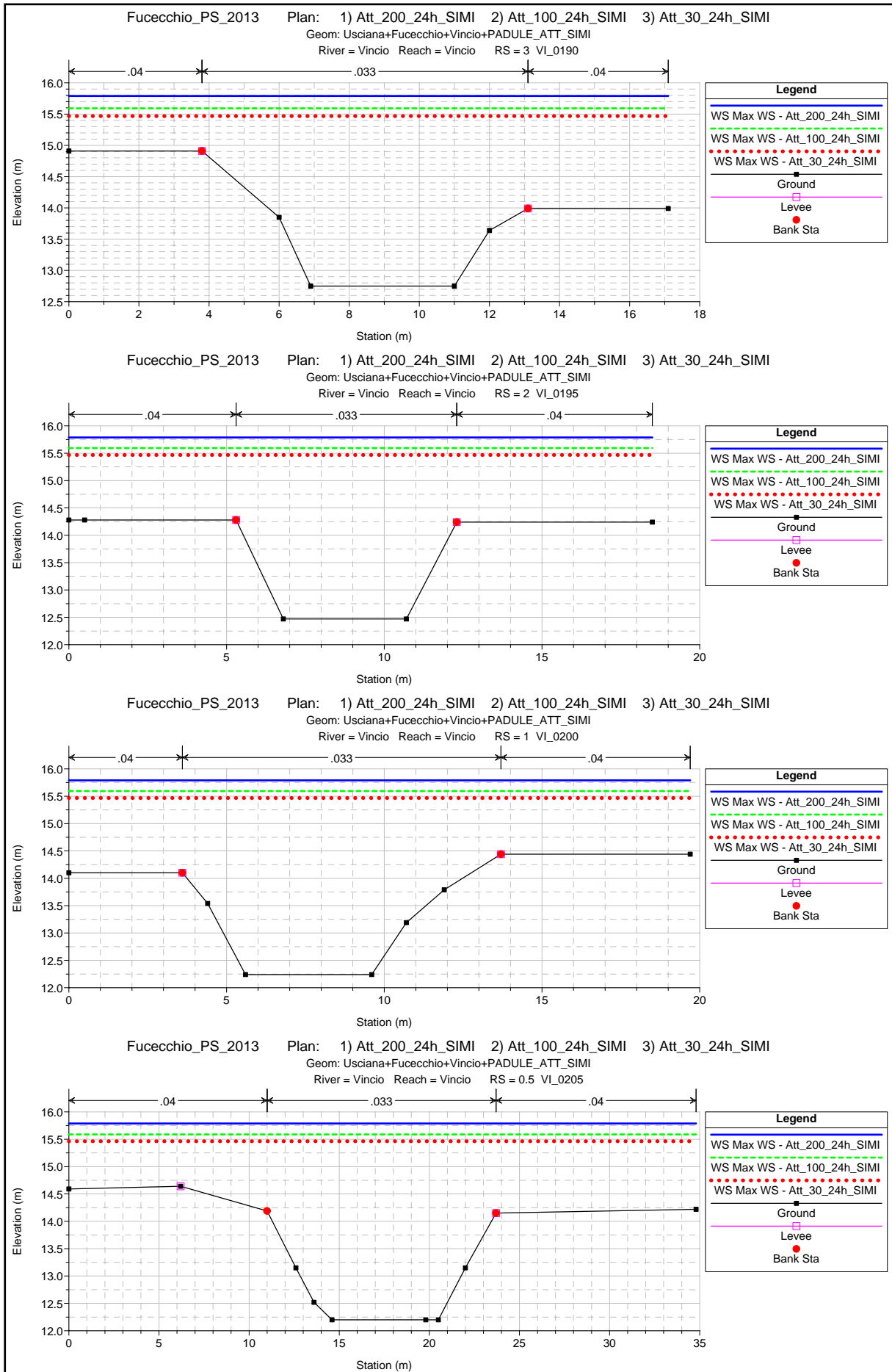
Fucecchio\_PS\_2013 Plan: 1) Att\_200\_24h\_SIMI 2) Att\_100\_24h\_SIMI 3) Att\_30\_24h\_SIMI

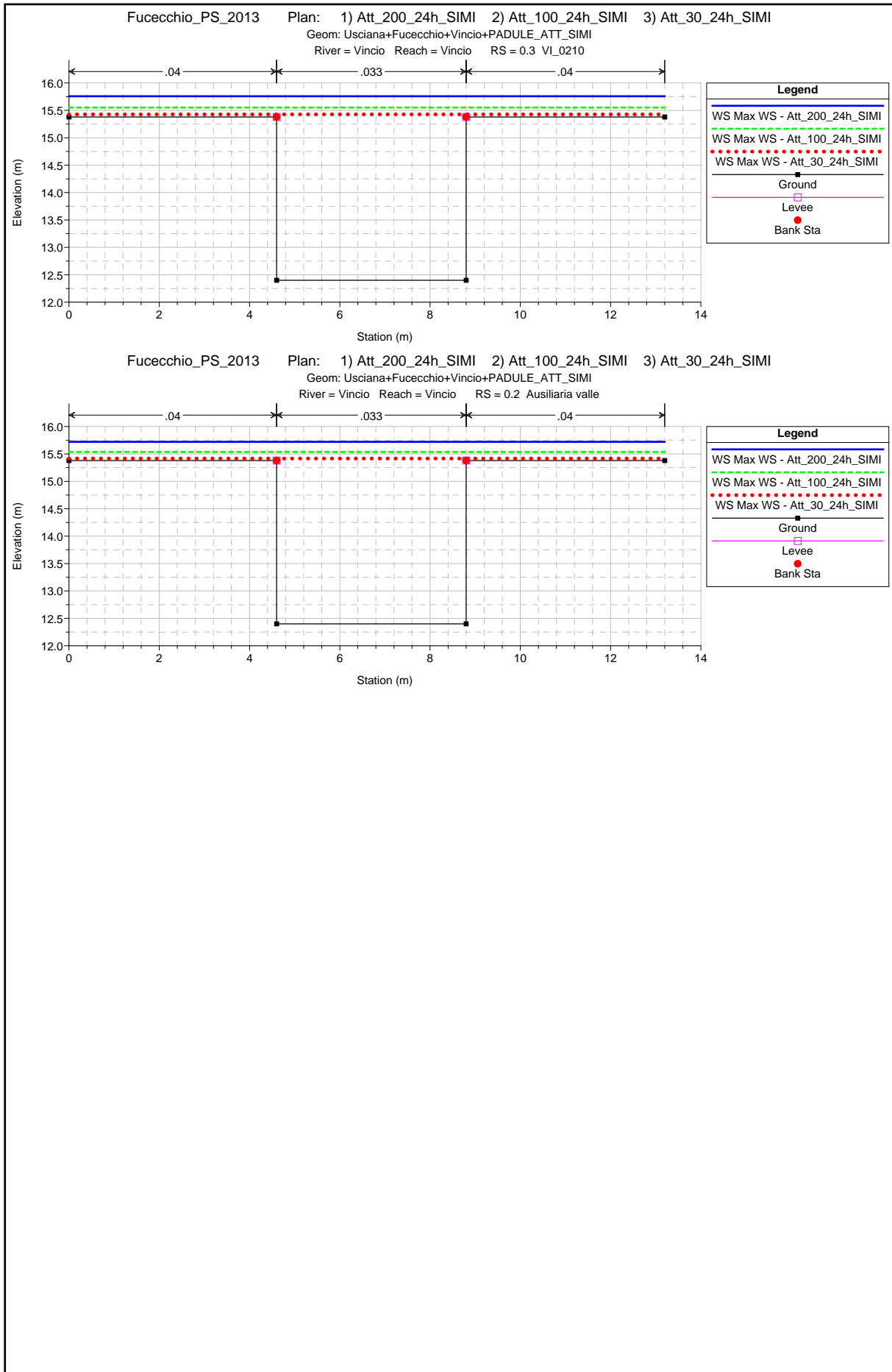
Geom: Usciana+Fucecchio+Vincio+PADULE\_ATT\_SIMI













HEC-RAS Locations: User Defined Profile: Max WS

River	Reach	River Sta	Profile	Plan	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
Vincio	Vincio	9	Max WS	Att_200_24h_SIMI	13.16	13.22	15.81		15.83	0.000236	0.65	23.04	15.28	0.15
Vincio	Vincio	9	Max WS	Att_100_24h_SIMI	37.94	13.22	15.69		15.88	0.002456	2.05	21.19	15.14	0.48
Vincio	Vincio	9	Max WS	Att_30_24h_SIMI	12.58	13.22	15.51		15.54	0.000383	0.77	18.55	14.93	0.19
Vincio	Vincio	8	Max WS	Att_200_24h_SIMI	11.64	12.45	15.80		15.80	0.000030	0.28	41.00	14.75	0.05
Vincio	Vincio	8	Max WS	Att_100_24h_SIMI	18.01	12.45	15.62		15.63	0.000087	0.47	38.34	14.54	0.09
Vincio	Vincio	8	Max WS	Att_30_24h_SIMI	16.04	12.45	15.49		15.50	0.000079	0.44	36.55	14.40	0.09
Vincio	Vincio	7	Max WS	Att_200_24h_SIMI	12.26	12.45	15.80	13.05	15.80	0.000024	0.26	46.98	15.80	0.05
Vincio	Vincio	7	Max WS	Att_100_24h_SIMI	18.08	12.45	15.62	13.21	15.63	0.000064	0.41	44.12	15.80	0.08
Vincio	Vincio	7	Max WS	Att_30_24h_SIMI	16.02	12.45	15.49	13.16	15.50	0.000057	0.38	42.16	15.80	0.07
Vincio	Vincio	6.5			Bridge									
Vincio	Vincio	6	Max WS	Att_200_24h_SIMI	11.72	12.45	15.80		15.80	0.000022	0.25	46.97	15.80	0.05
Vincio	Vincio	6	Max WS	Att_100_24h_SIMI	18.01	12.45	15.62		15.62	0.000063	0.41	44.10	15.80	0.08
Vincio	Vincio	6	Max WS	Att_30_24h_SIMI	15.99	12.45	15.49		15.50	0.000057	0.38	42.13	15.80	0.07
Vincio	Vincio	5	Max WS	Att_200_24h_SIMI	11.53	12.45	15.80		15.80	0.000029	0.28	40.99	14.75	0.05
Vincio	Vincio	5	Max WS	Att_100_24h_SIMI	18.01	12.45	15.61		15.62	0.000087	0.47	38.30	14.54	0.09
Vincio	Vincio	5	Max WS	Att_30_24h_SIMI	15.98	12.45	15.49		15.50	0.000078	0.44	36.51	14.39	0.09
Vincio	Vincio	4.99			Lat Struct									
Vincio	Vincio	4.98			Lat Struct									
Vincio	Vincio	4	Max WS	Att_200_24h_SIMI	7.16	12.98	15.79		15.79	0.000047	0.32	26.32	17.10	0.07
Vincio	Vincio	4	Max WS	Att_100_24h_SIMI	12.85	12.98	15.59		15.61	0.000217	0.66	22.97	17.10	0.14
Vincio	Vincio	4	Max WS	Att_30_24h_SIMI	11.36	12.98	15.47		15.49	0.000218	0.63	20.84	17.10	0.14
Vincio	Vincio	3	Max WS	Att_200_24h_SIMI	4.40	12.75	15.79		15.79	0.000010	0.16	33.09	17.10	0.03
Vincio	Vincio	3	Max WS	Att_100_24h_SIMI	6.69	12.75	15.59		15.60	0.000030	0.26	29.75	17.10	0.06
Vincio	Vincio	3	Max WS	Att_30_24h_SIMI	6.06	12.75	15.47		15.47	0.000031	0.26	27.61	17.10	0.06
Vincio	Vincio	2	Max WS	Att_200_24h_SIMI	-3.96	12.47	15.79		15.79	0.000006	-0.13	38.05	18.50	0.02
Vincio	Vincio	2	Max WS	Att_100_24h_SIMI	-1.99	12.47	15.59		15.59	0.000002	-0.07	34.45	18.50	0.01
Vincio	Vincio	2	Max WS	Att_30_24h_SIMI	-2.70	12.47	15.47		15.47	0.000005	-0.11	32.13	18.50	0.02
Vincio	Vincio	1	Max WS	Att_200_24h_SIMI	-8.97	12.24	15.79		15.79	0.000021	-0.25	42.57	19.70	0.05
Vincio	Vincio	1	Max WS	Att_100_24h_SIMI	-7.02	12.24	15.59		15.60	0.000017	-0.22	38.72	19.70	0.04
Vincio	Vincio	1	Max WS	Att_30_24h_SIMI	-7.68	12.24	15.47		15.47	0.000024	-0.25	36.26	19.70	0.05
Vincio	Vincio	0.5	Max WS	Att_200_24h_SIMI	14.11	12.20	15.79		15.79	0.000018	0.26	70.86	34.80	0.05

HEC-RAS Locations: User Defined Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	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
Vincio	Vincio	0.5	Max WS	Att_100_24h_SIMI	14.41	12.20	15.59		15.59	0.000025	0.29	63.91	34.80	0.05
Vincio	Vincio	0.5	Max WS	Att_30_24h_SIMI	13.99	12.20	15.46		15.47	0.000029	0.30	59.59	34.80	0.06
Vincio	Vincio	0.3	Max WS	Att_200_24h_SIMI	14.11	12.40	15.76		15.80	0.000849	0.93	17.50	13.20	0.16
Vincio	Vincio	0.3	Max WS	Att_100_24h_SIMI	14.41	12.40	15.55		15.61	0.001216	1.06	14.78	13.20	0.19
Vincio	Vincio	0.3	Max WS	Att_30_24h_SIMI	13.99	12.40	15.43		15.49	0.001371	1.10	13.13	13.20	0.20
Vincio	Vincio	0.2	Max WS	Att_200_24h_SIMI	15.79	12.40	15.72	13.53	15.77	0.001124	1.06	17.02	13.20	0.19
Vincio	Vincio	0.2	Max WS	Att_100_24h_SIMI	14.70	12.40	15.54	13.48	15.60	0.001296	1.09	14.58	13.20	0.20
Vincio	Vincio	0.2	Max WS	Att_30_24h_SIMI	13.99	12.40	15.42	13.44	15.48	0.001390	1.10	12.99	13.20	0.20

# **Scenario C**

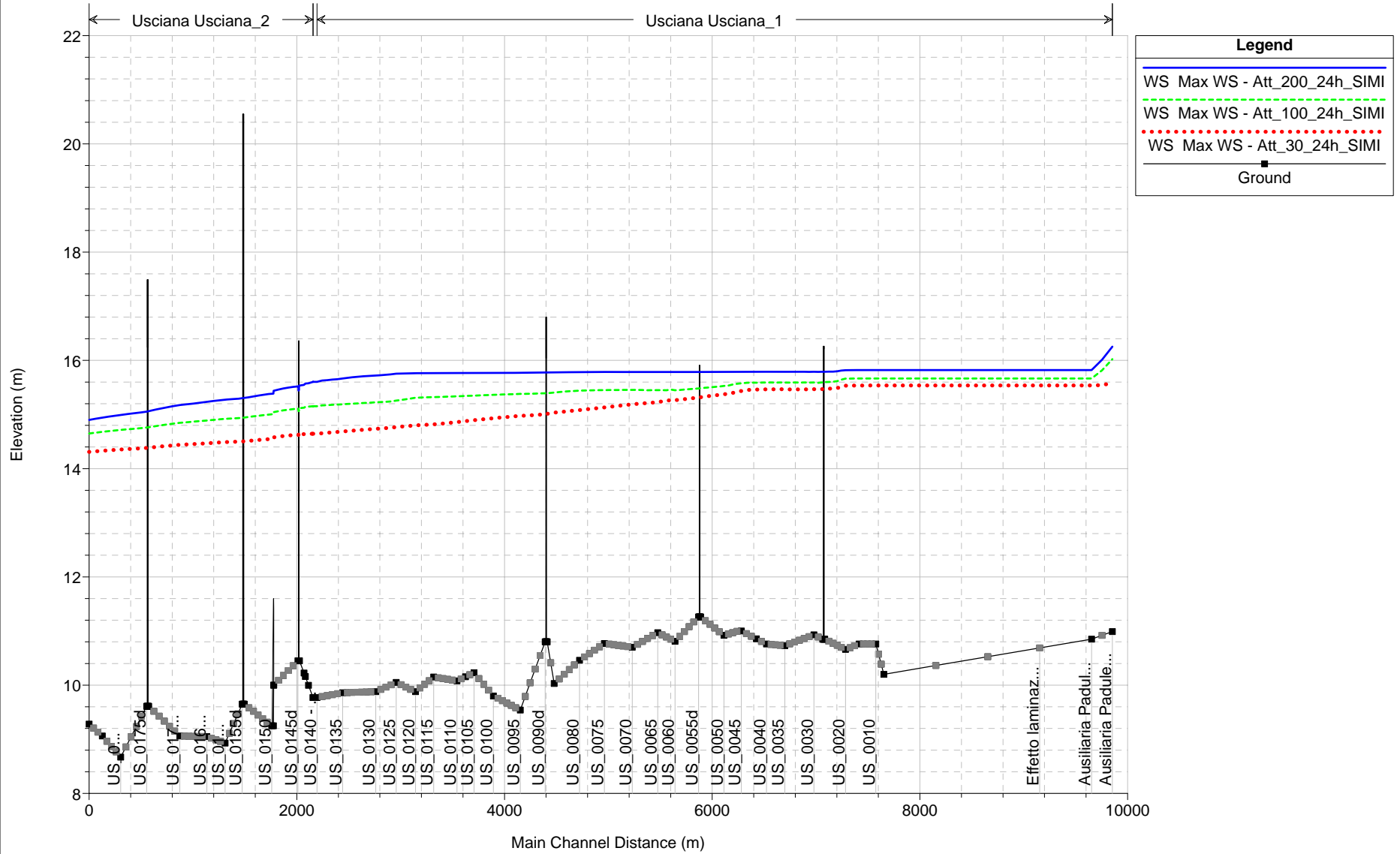
**Tr 200, 100 e 30 anni**

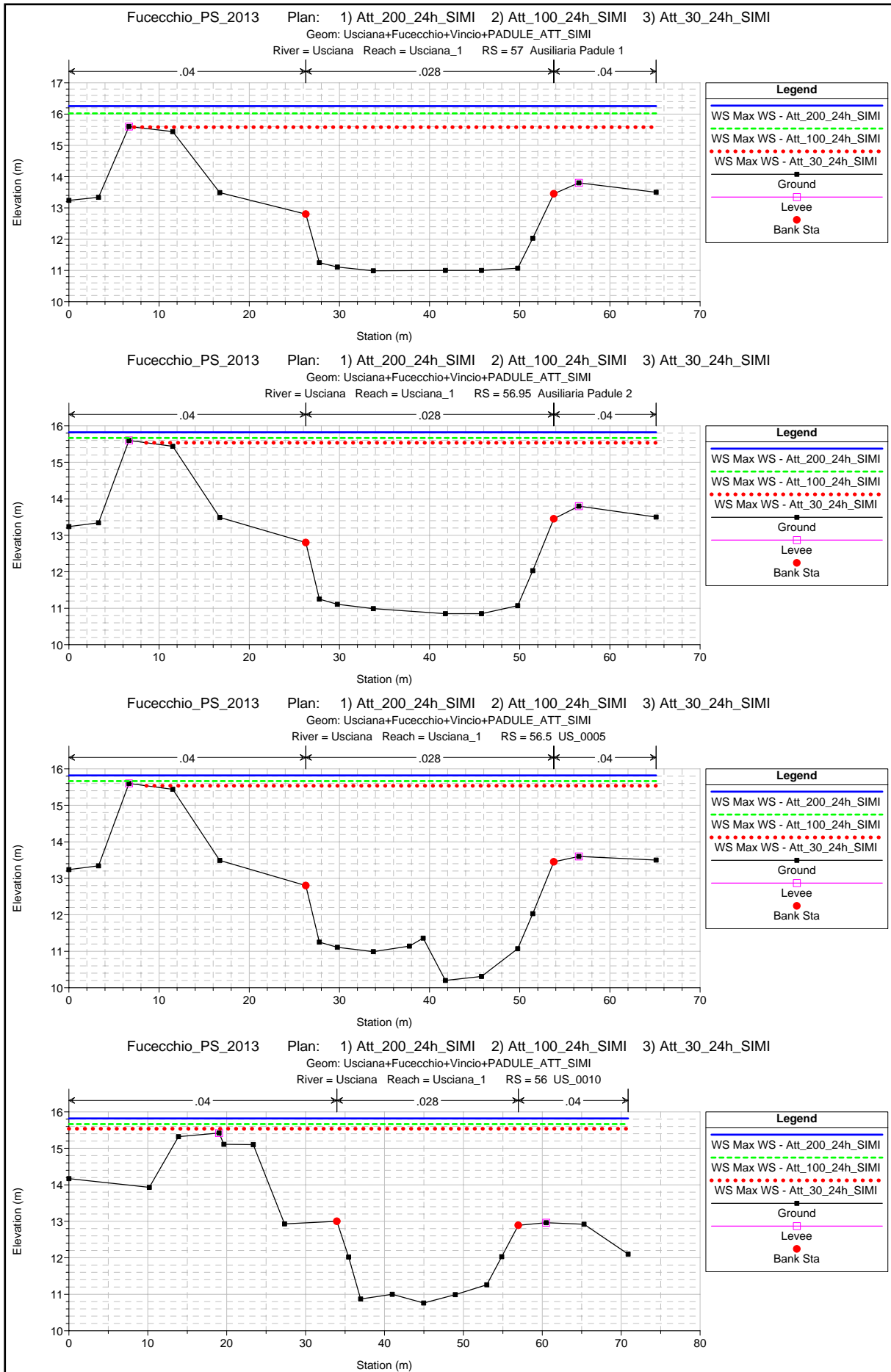
## **CANALE USCIANA**

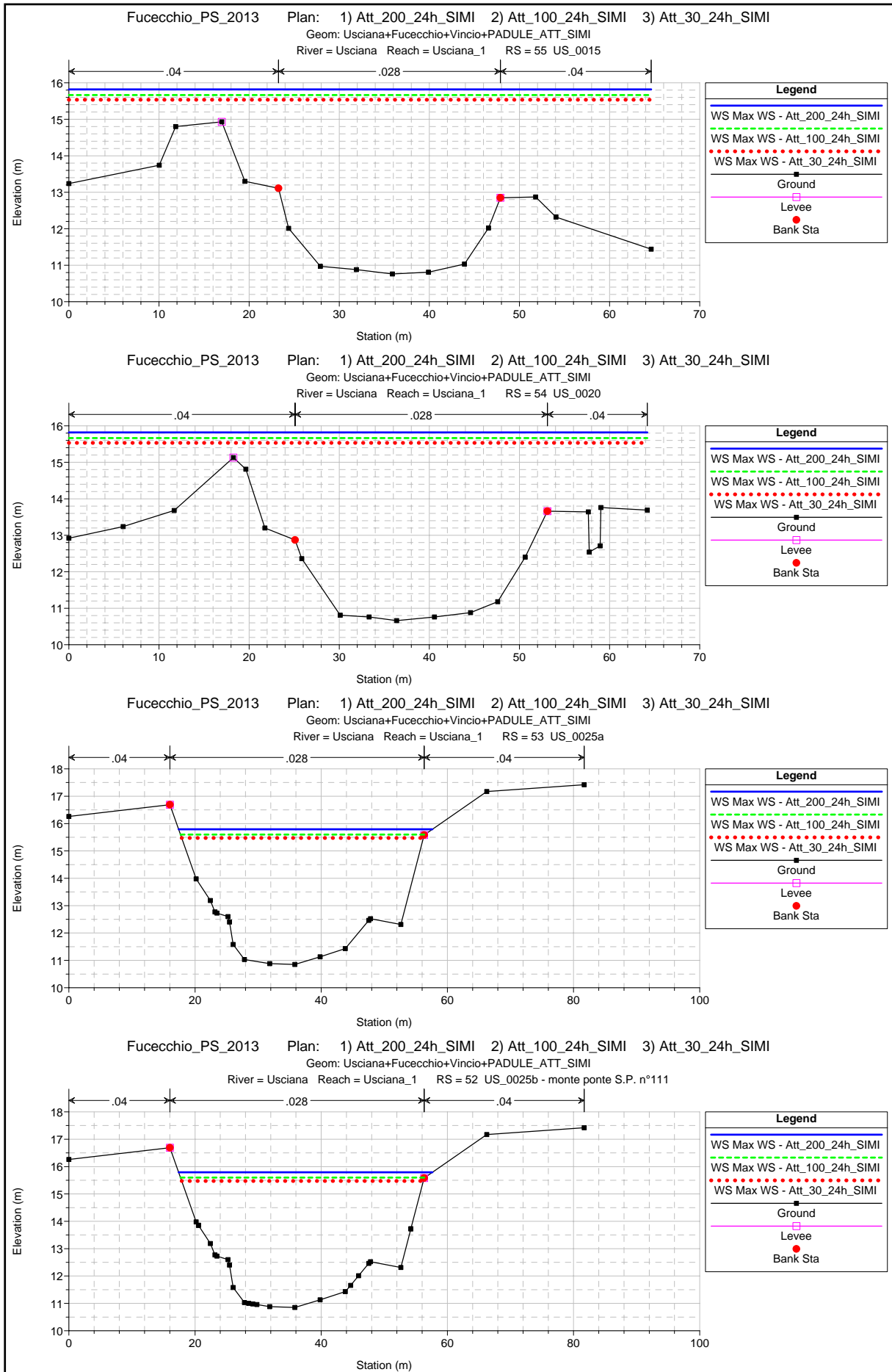
- **Profili**
- **Sezioni**
- **Tabelle di Output**

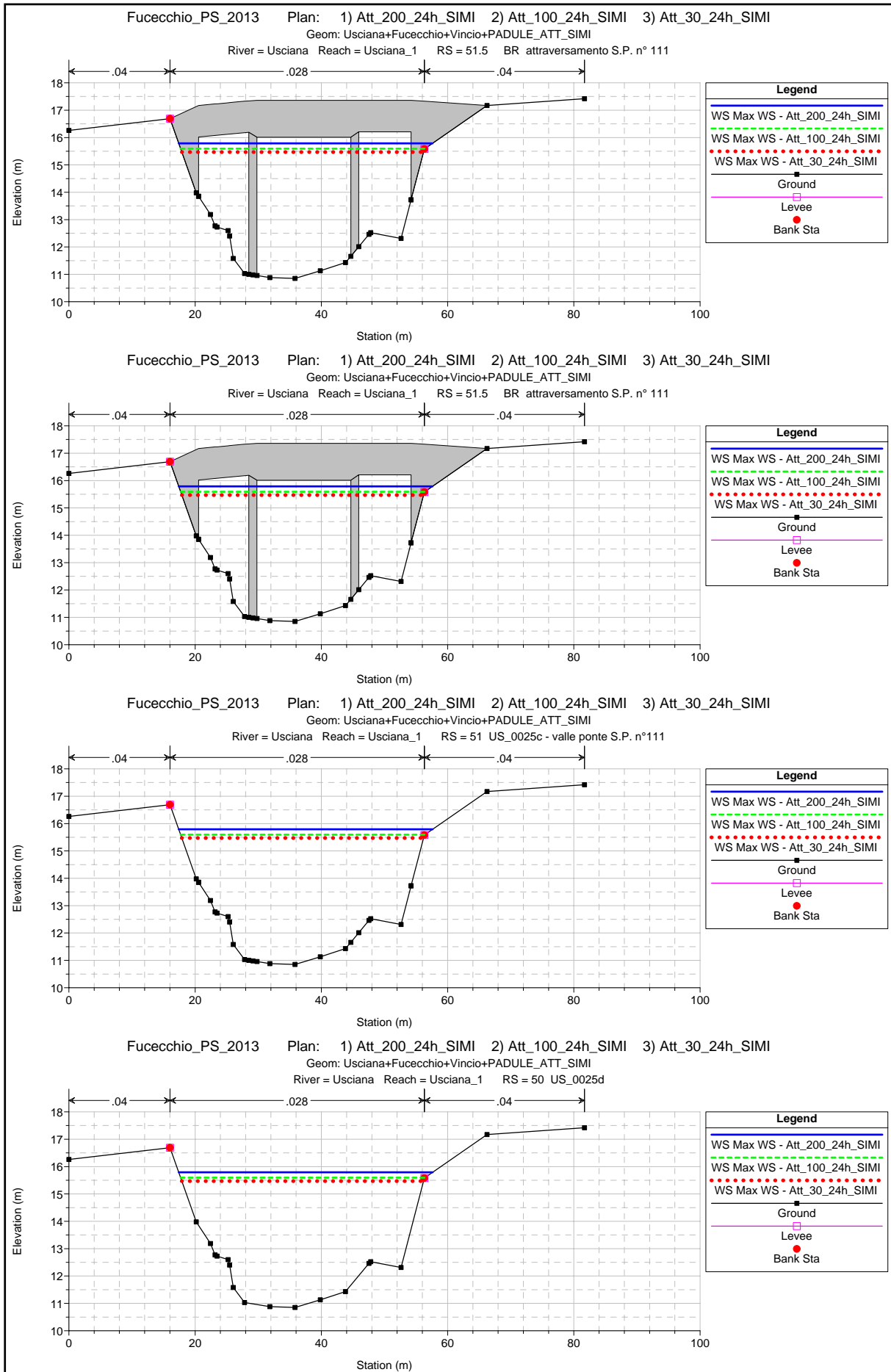
Fucecchio\_PS\_2013 Plan: 1) Att\_200\_24h\_SIMI 2) Att\_100\_24h\_SIMI 3) Att\_30\_24h\_SIMI

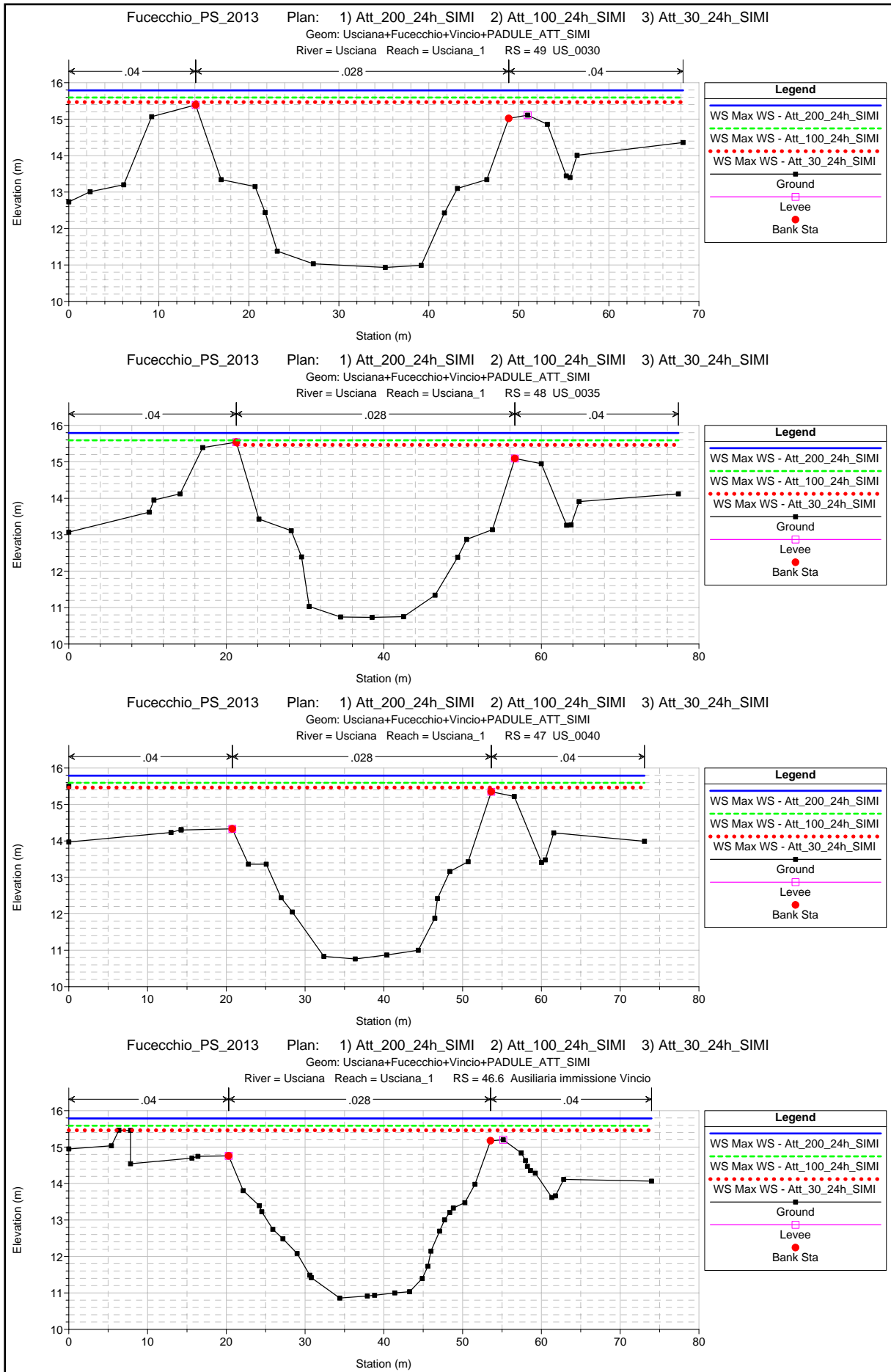
Geom: Usciana+Fucecchio+Vincio+PADULE\_ATT\_SIMI



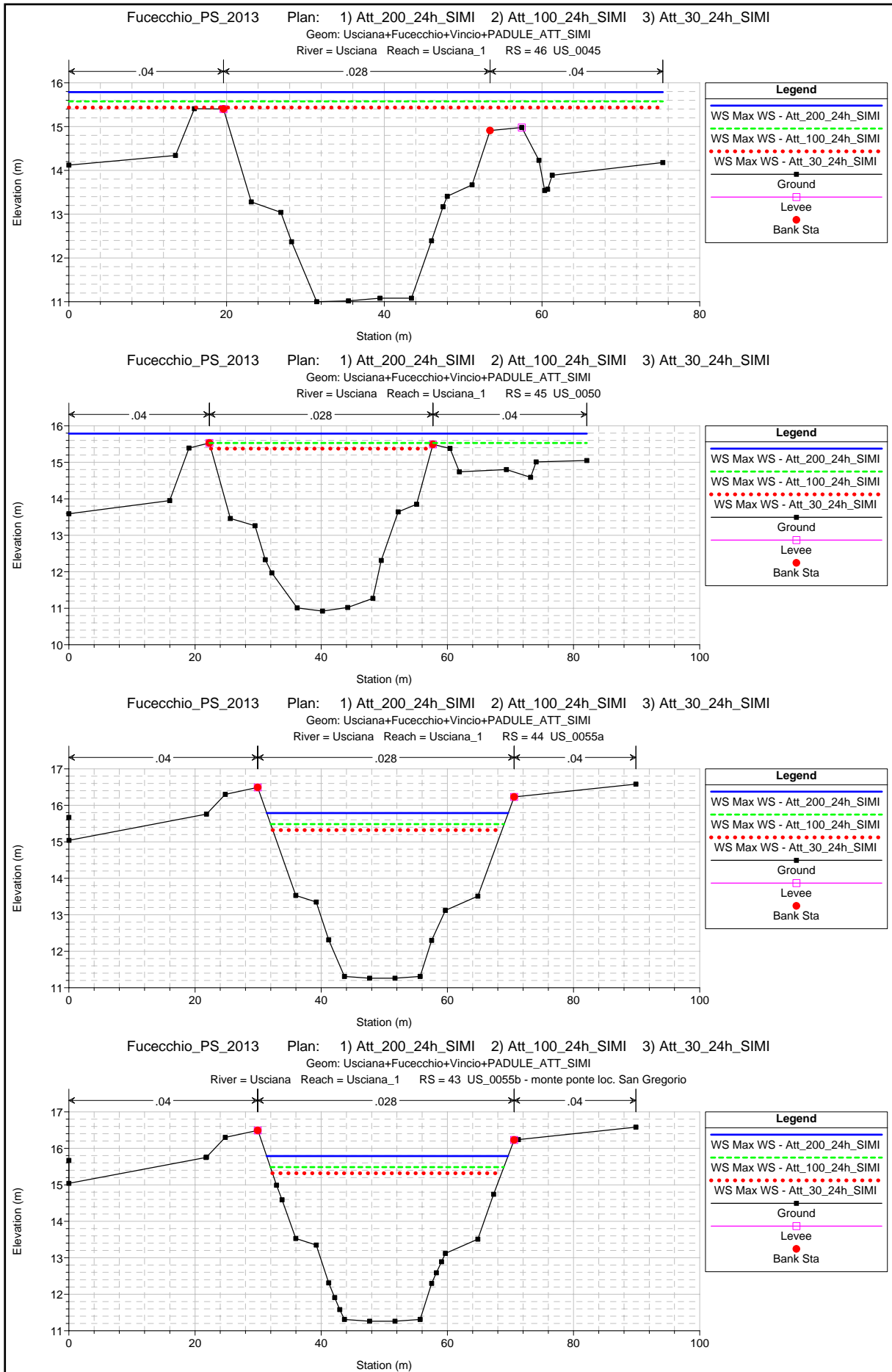


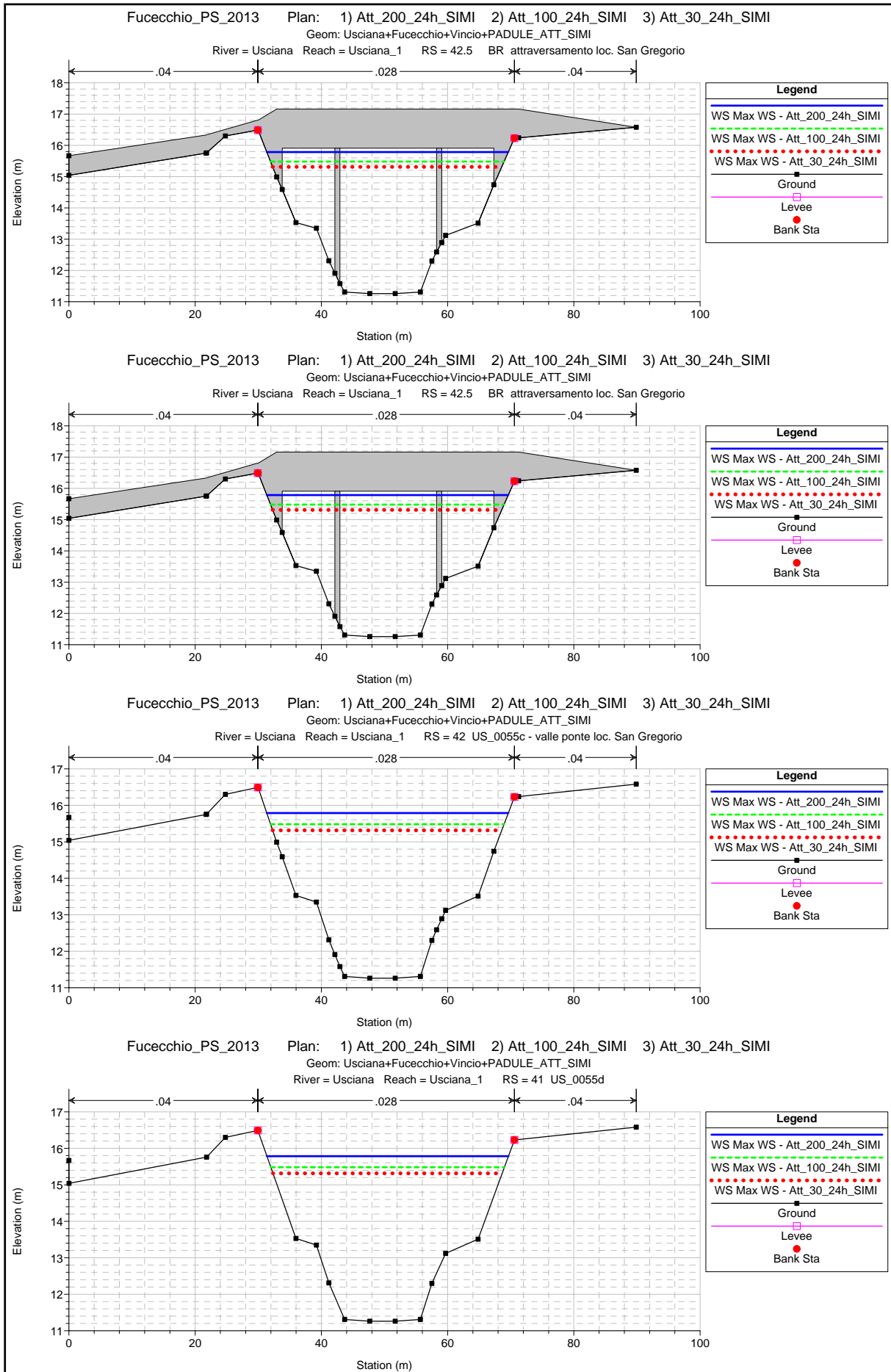


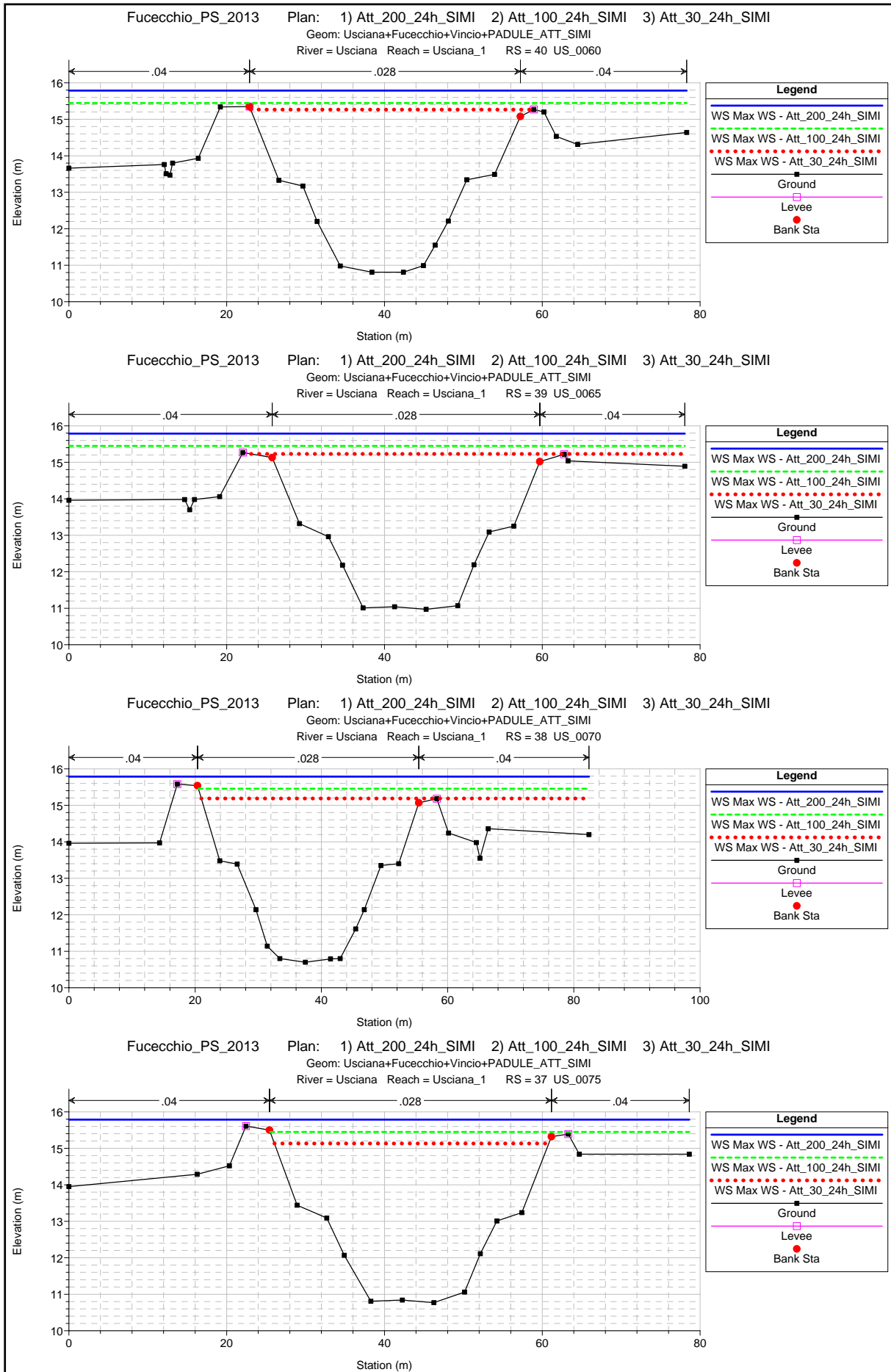


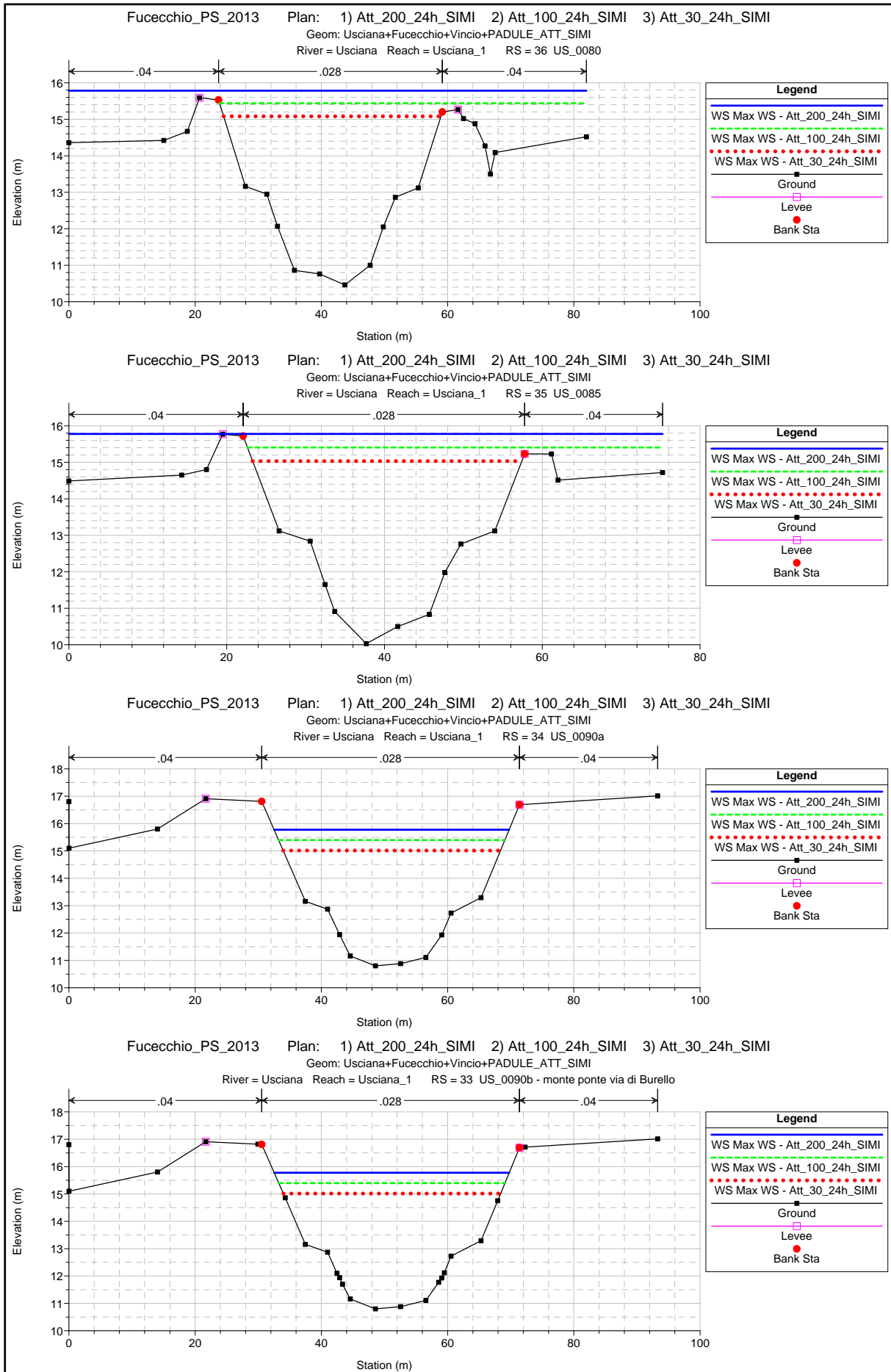


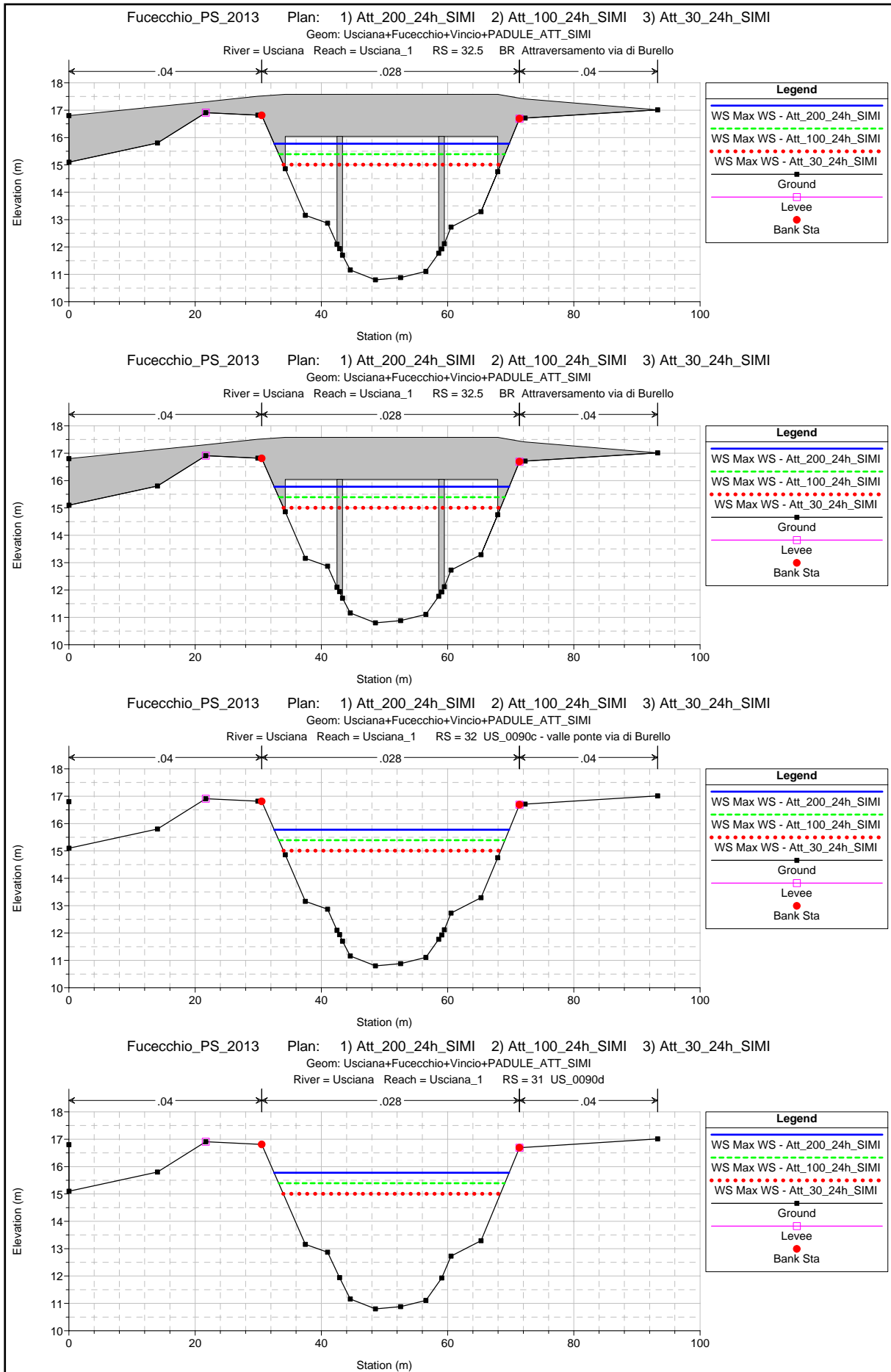


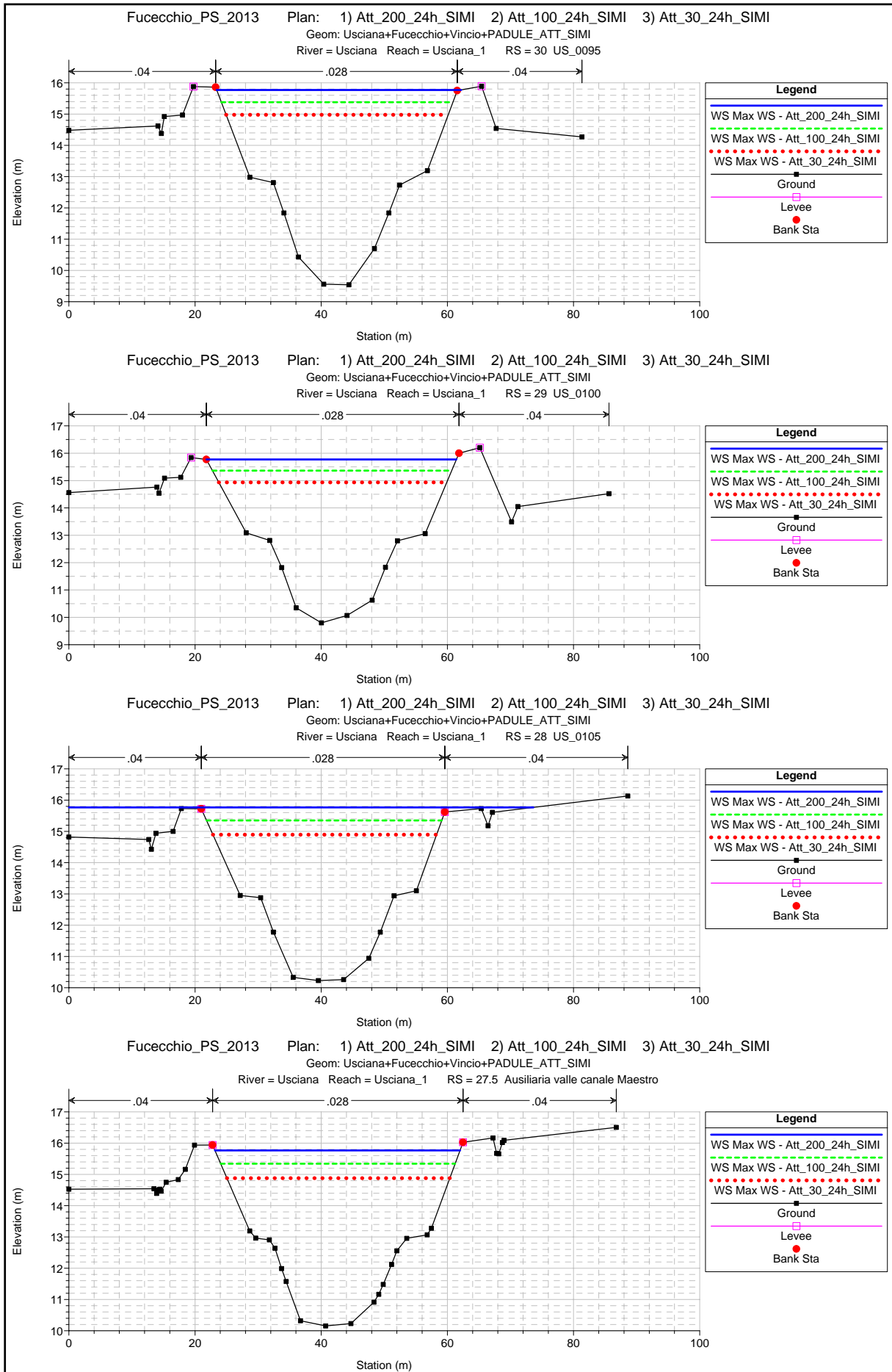


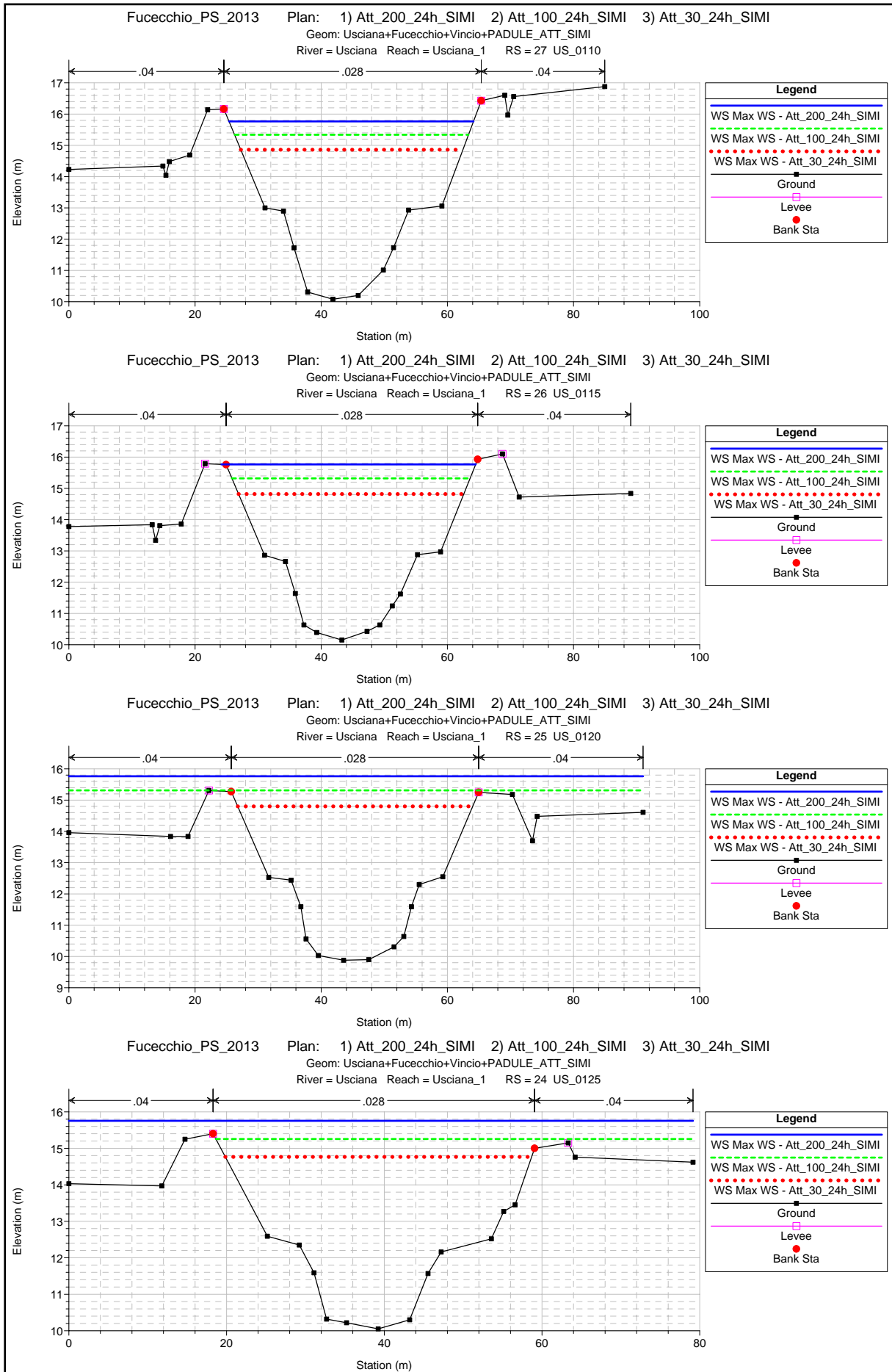


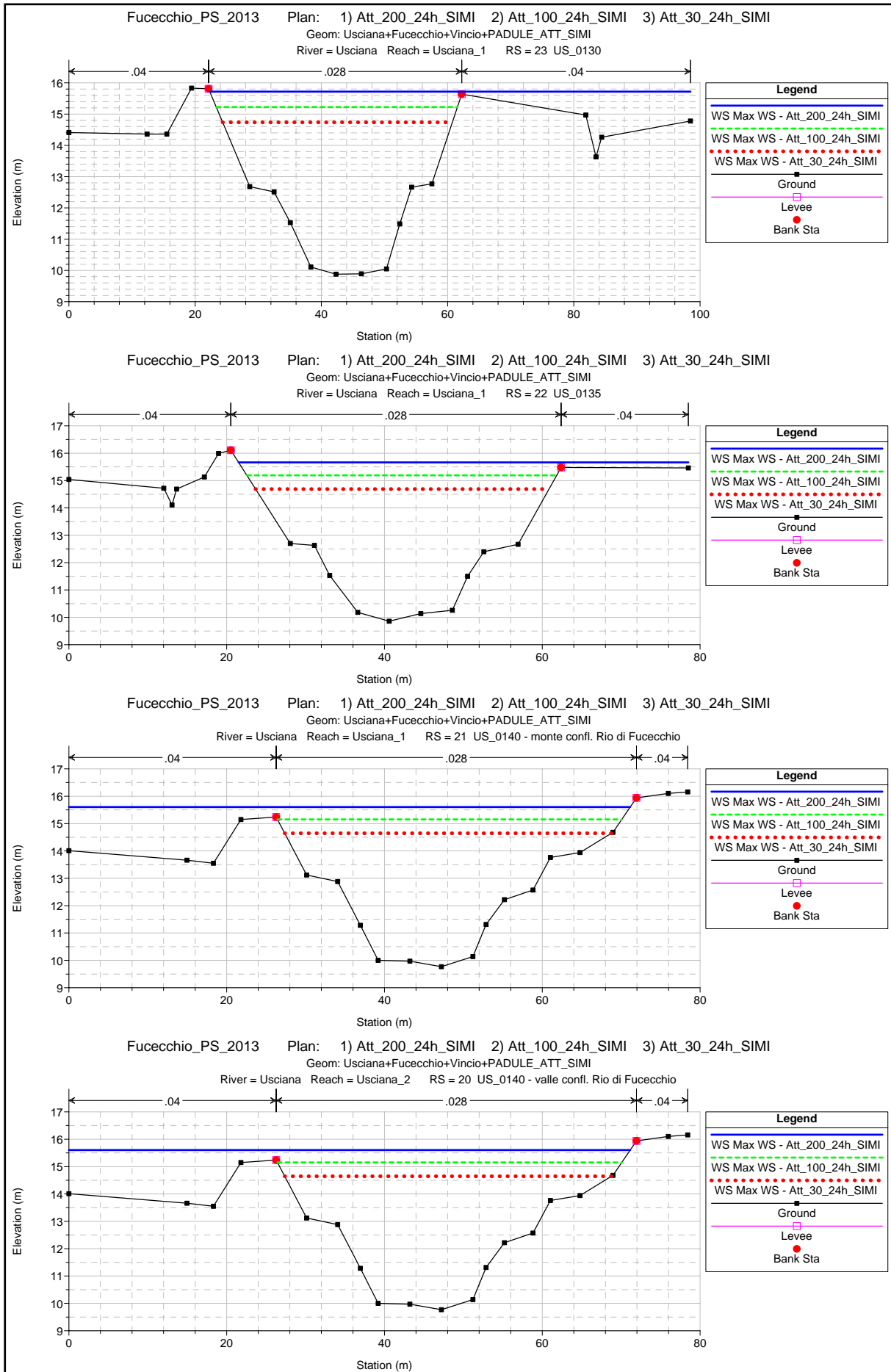




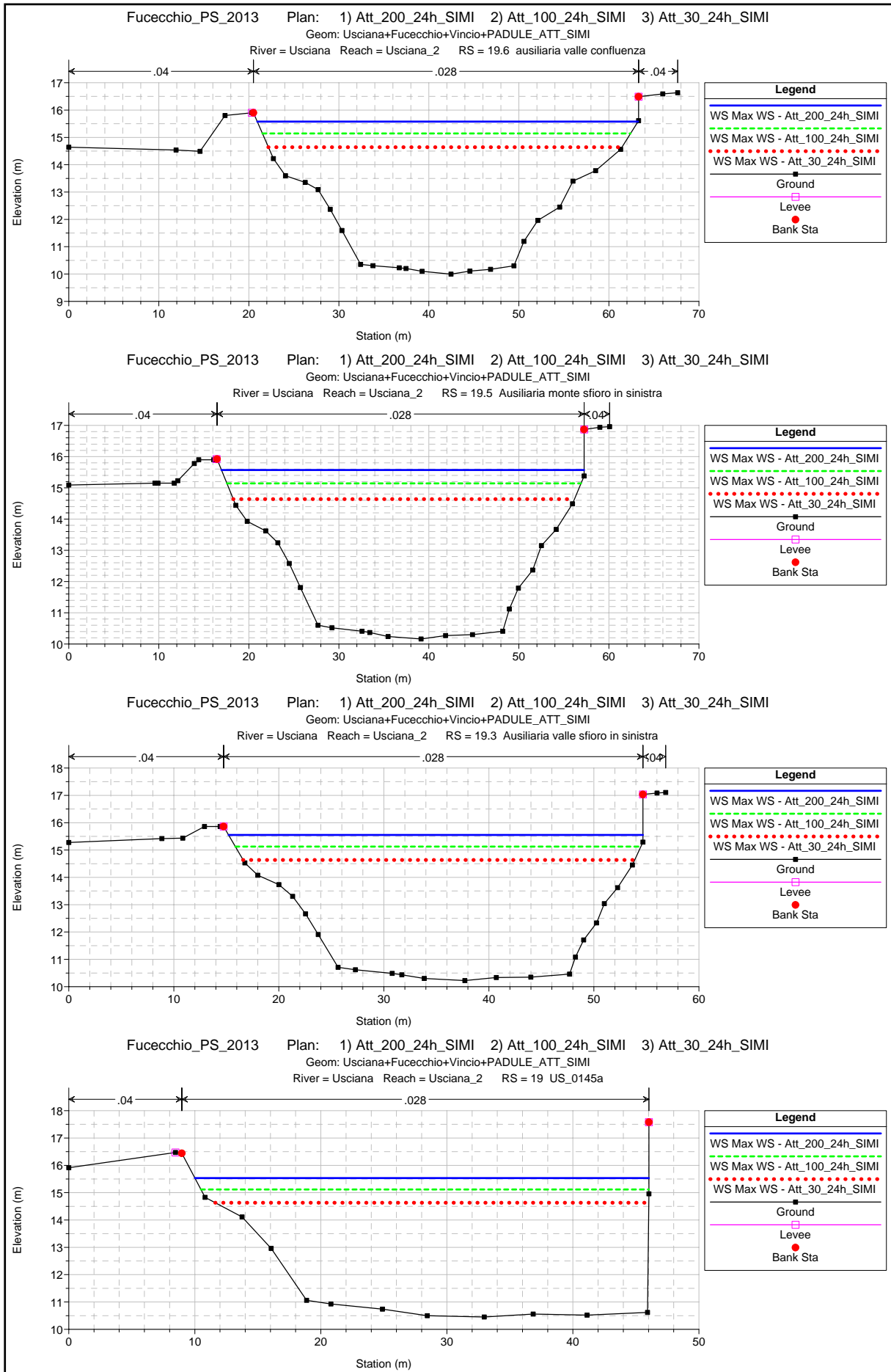


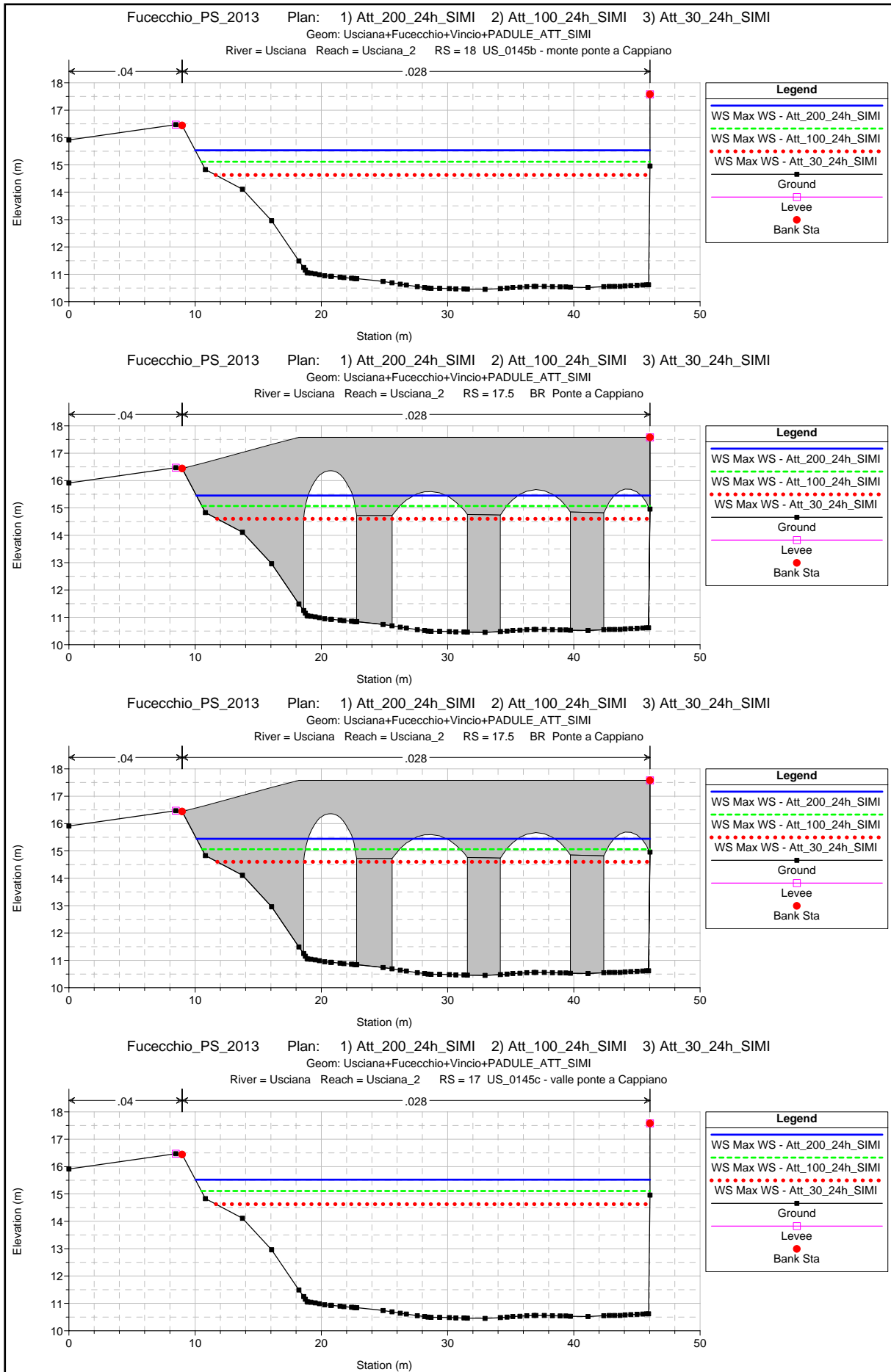


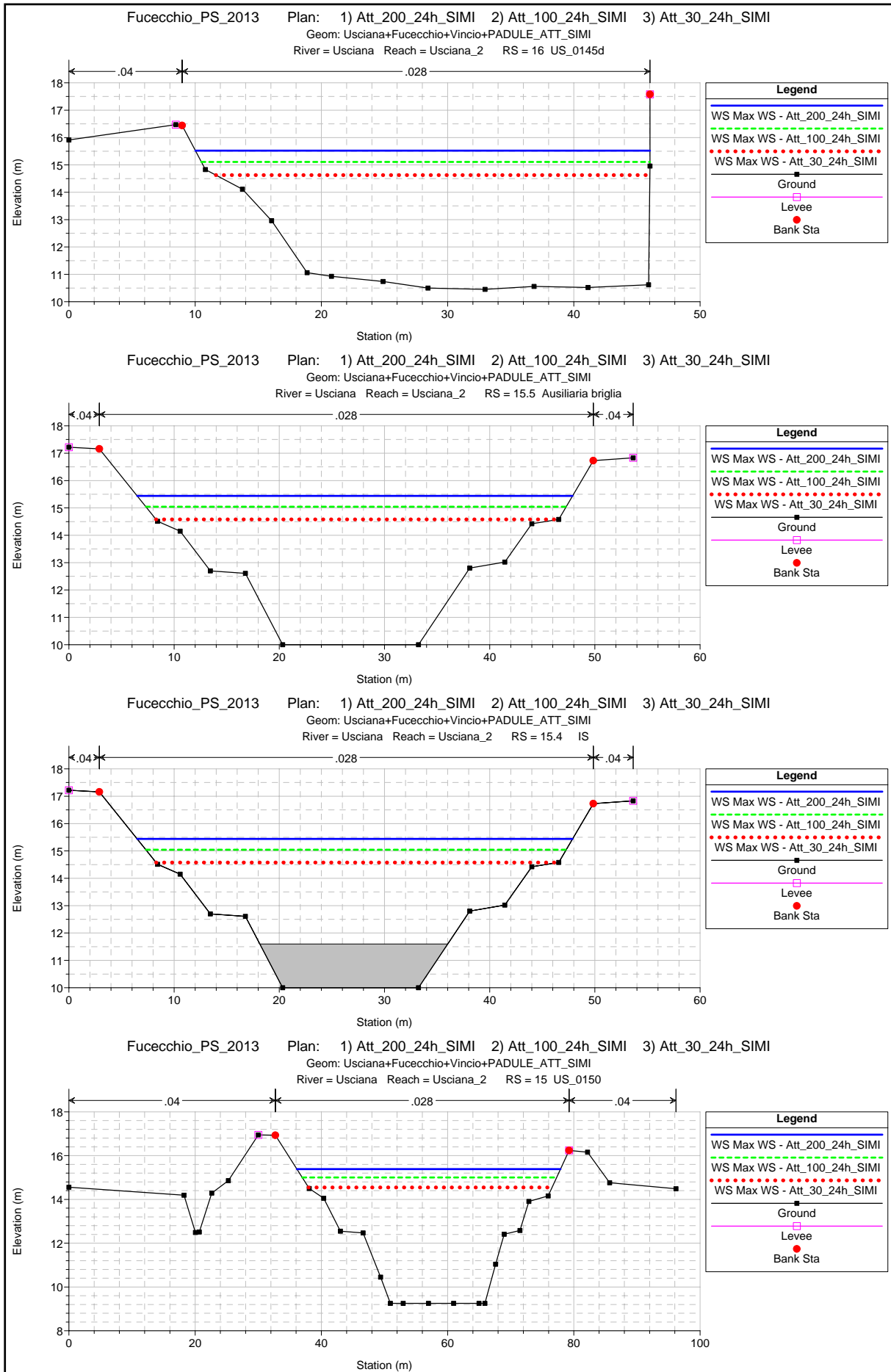


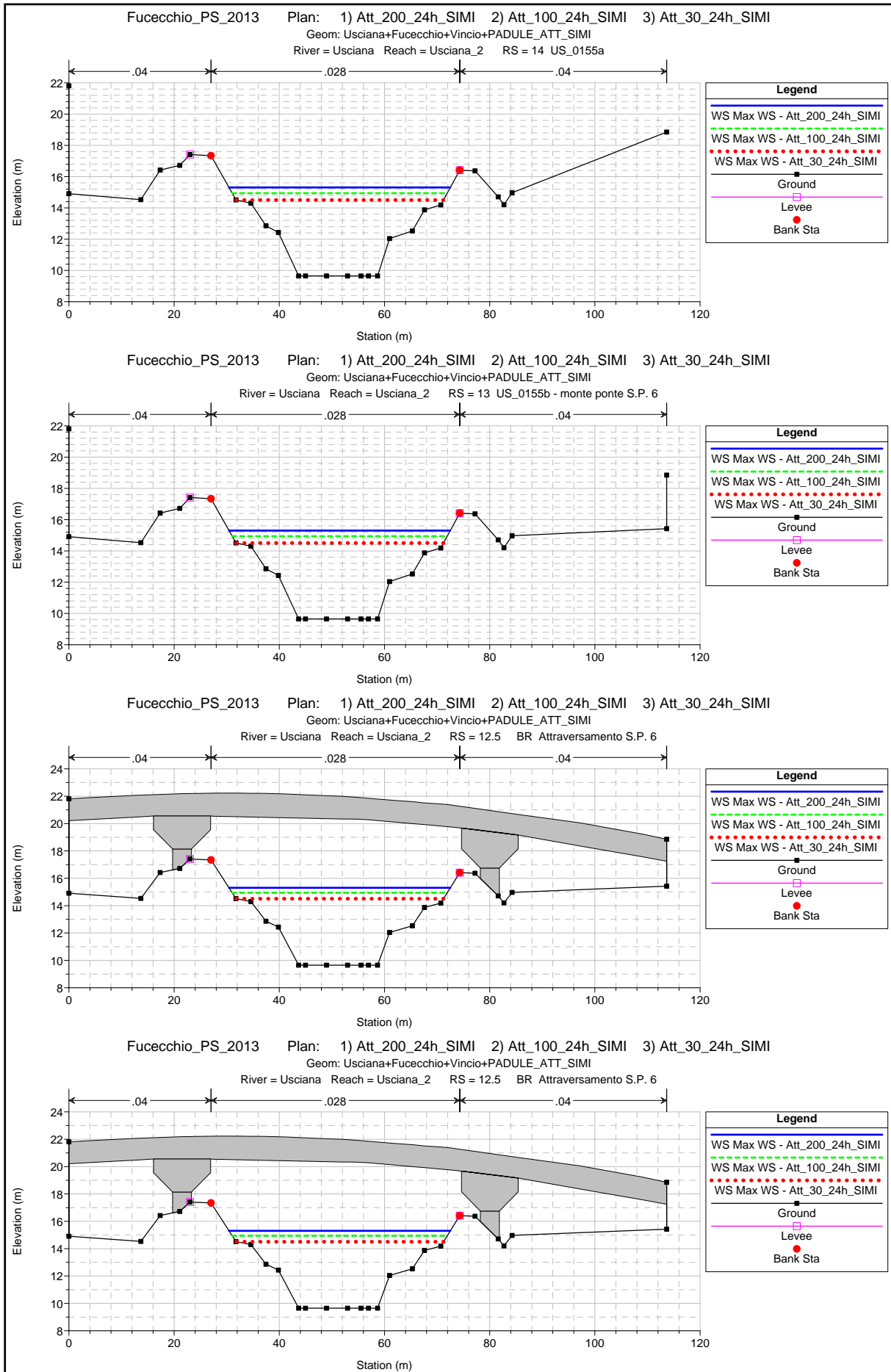


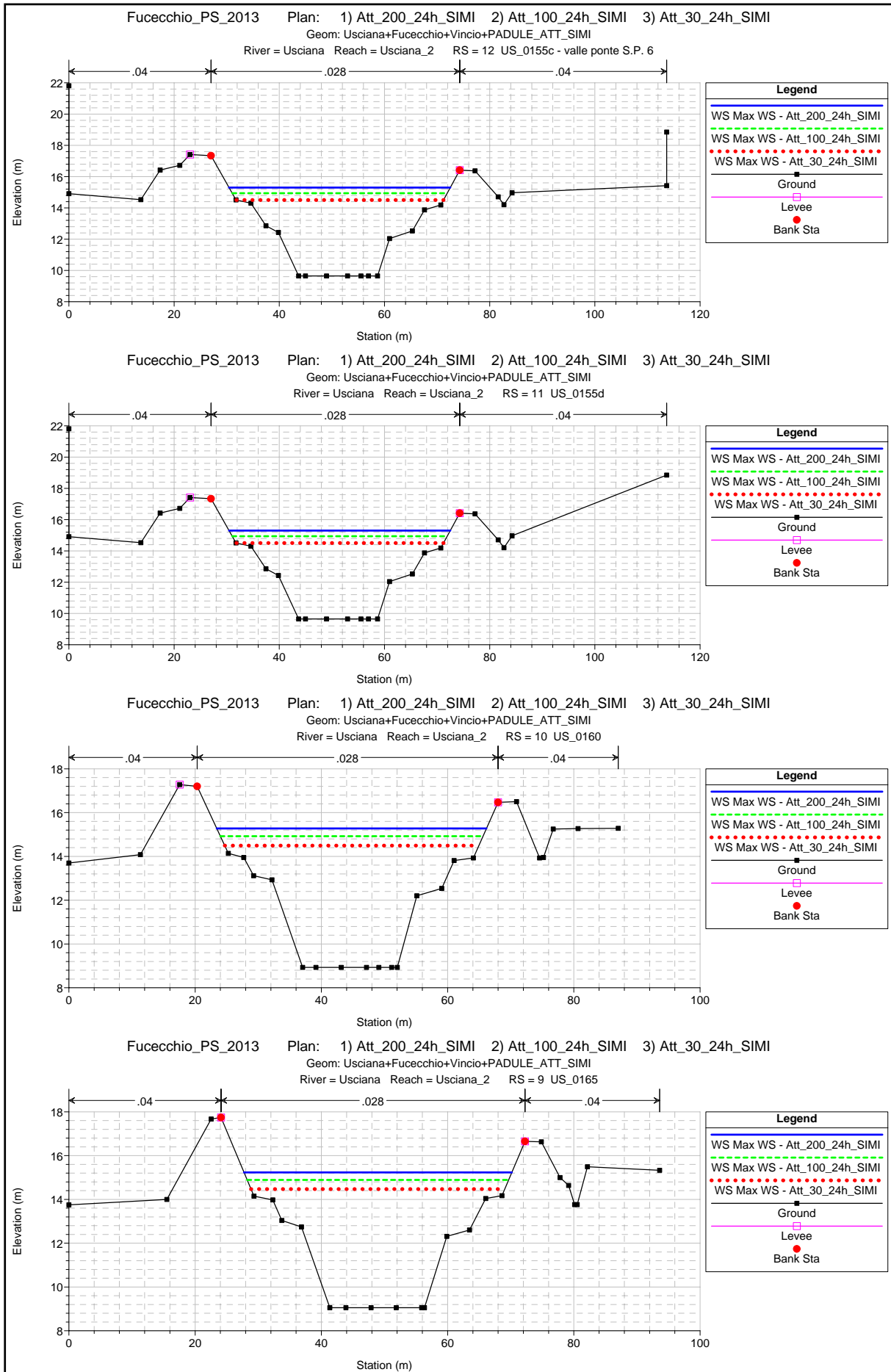


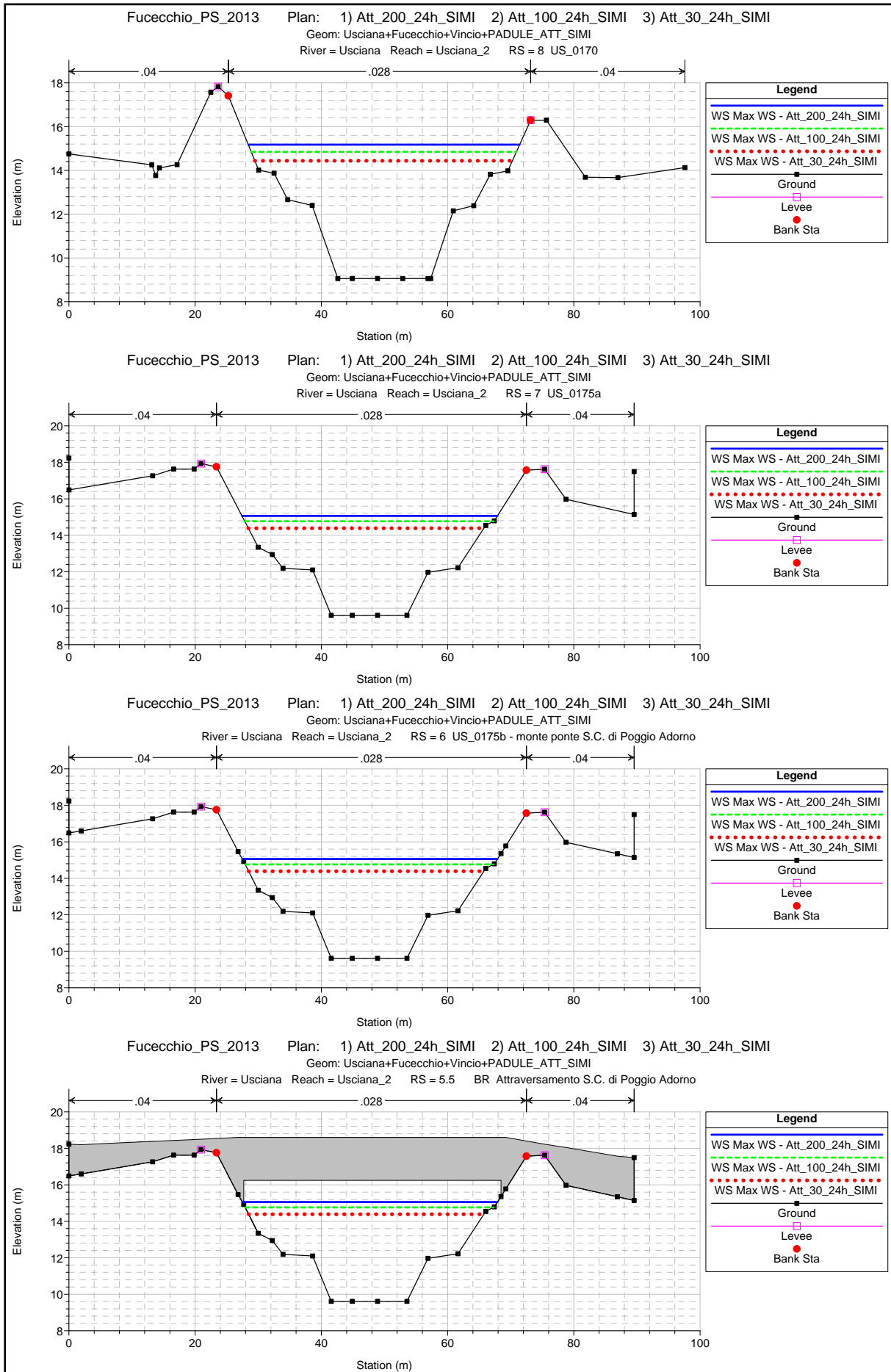


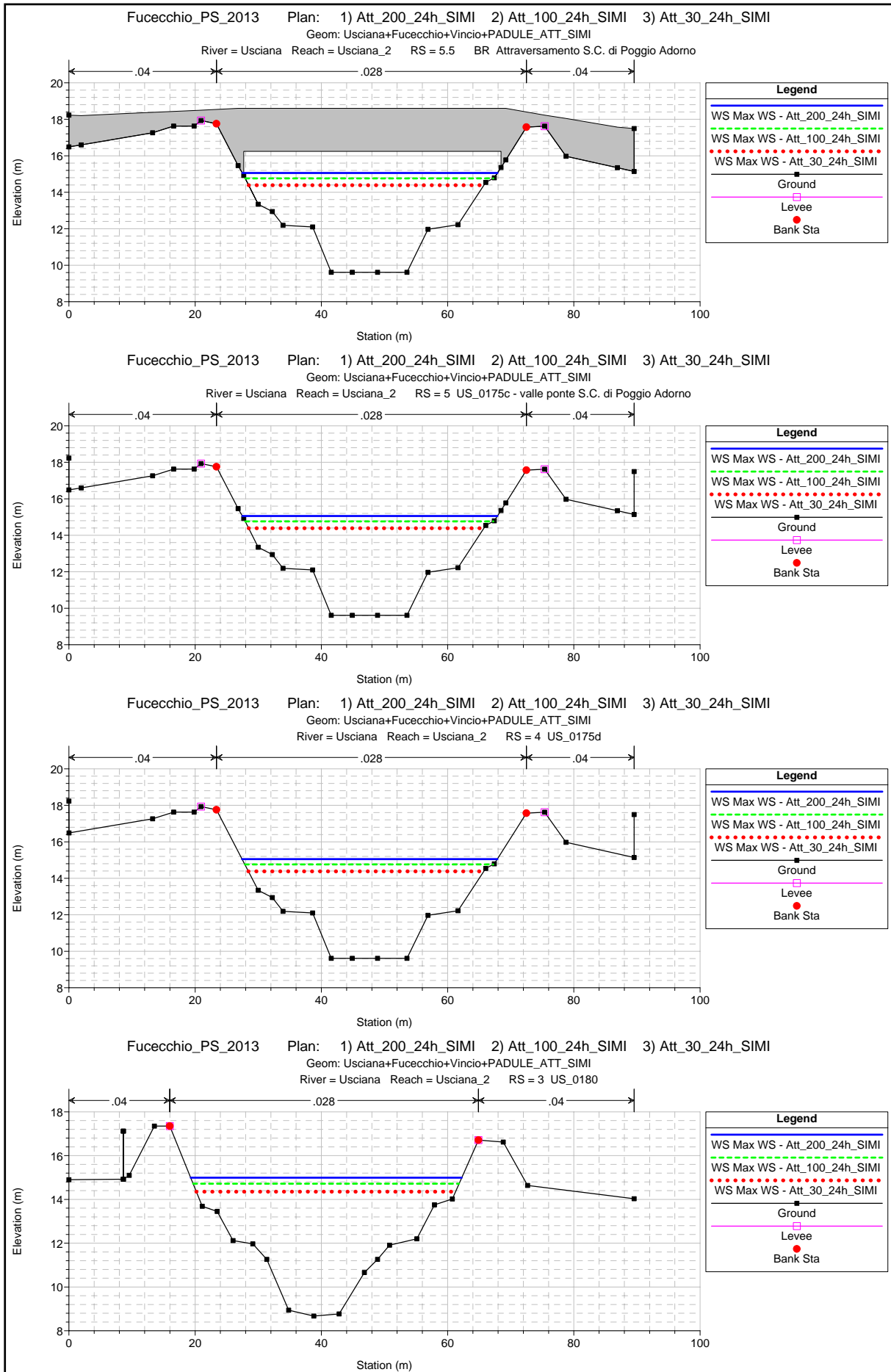


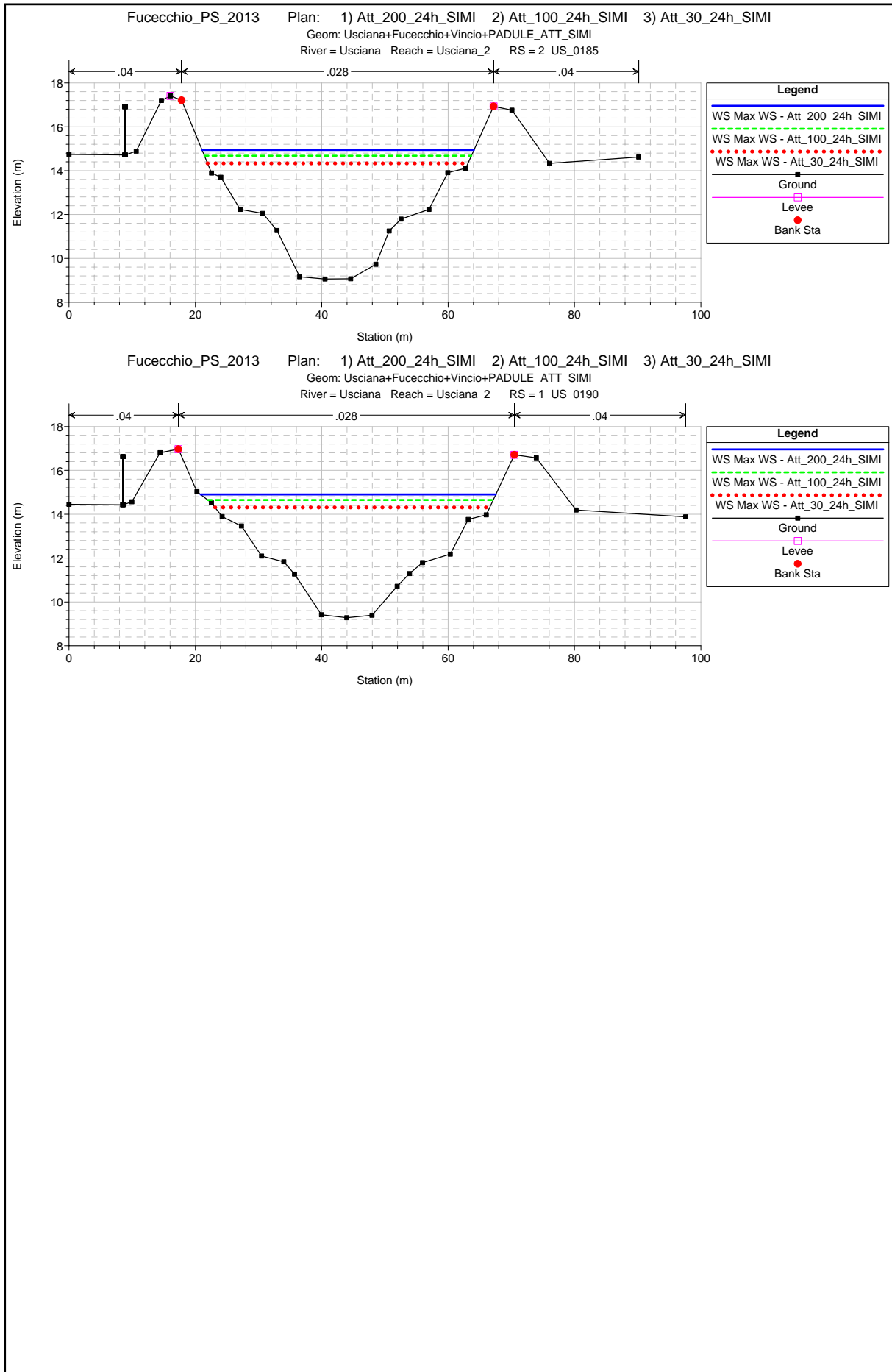














HEC-RAS Profile: Max WS

Reach	River Sta	Profile	Plan	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
Usciana_1	57	Max WS	Att_200_24h_SIMI	690.98	10.99	16.25		16.94	0.001585	4.03	225.31	65.12	0.58
Usciana_1	57	Max WS	Att_100_24h_SIMI	590.32	10.99	16.02		16.60	0.001400	3.67	210.28	65.12	0.54
Usciana_1	57	Max WS	Att_30_24h_SIMI	454.77	10.99	15.58		16.07	0.001295	3.30	170.17	57.88	0.51
Usciana_1	56.95	Max WS	Att_200_24h_SIMI	98.10	10.85	15.82		15.84	0.000045	0.64	198.59	65.12	0.10
Usciana_1	56.95	Max WS	Att_100_24h_SIMI	117.68	10.85	15.67		15.70	0.000074	0.81	188.52	65.12	0.12
Usciana_1	56.95	Max WS	Att_30_24h_SIMI	105.27	10.85	15.54		15.56	0.000069	0.76	169.16	56.55	0.12
Usciana_1	56.94			Lat Struct									
Usciana_1	56.5	Max WS	Att_200_24h_SIMI	25.68	10.20	15.82		15.82	0.000003	0.16	202.41	65.12	0.02
Usciana_1	56.5	Max WS	Att_100_24h_SIMI	28.09	10.20	15.67		15.67	0.000004	0.19	192.33	65.12	0.03
Usciana_1	56.5	Max WS	Att_30_24h_SIMI	23.09	10.20	15.54		15.54	0.000003	0.16	172.99	56.53	0.02
Usciana_1	56.4			Lat Struct									
Usciana_1	56.39			Lat Struct									
Usciana_1	56	Max WS	Att_200_24h_SIMI	23.32	10.76	15.82		15.82	0.000003	0.16	200.81	70.88	0.02
Usciana_1	56	Max WS	Att_100_24h_SIMI	25.78	10.76	15.67		15.67	0.000004	0.19	189.83	70.88	0.03
Usciana_1	56	Max WS	Att_30_24h_SIMI	22.25	10.76	15.54		15.54	0.000004	0.17	180.67	70.88	0.03
Usciana_1	55	Max WS	Att_200_24h_SIMI	22.49	10.76	15.82		15.82	0.000002	0.14	219.84	64.62	0.02
Usciana_1	55	Max WS	Att_100_24h_SIMI	24.79	10.76	15.67		15.67	0.000003	0.16	209.83	64.62	0.02
Usciana_1	55	Max WS	Att_30_24h_SIMI	21.30	10.76	15.54		15.54	0.000002	0.14	201.46	64.62	0.02
Usciana_1	54	Max WS	Att_200_24h_SIMI	26.45	10.66	15.82		15.82	0.000003	0.17	205.73	64.18	0.03
Usciana_1	54	Max WS	Att_100_24h_SIMI	35.45	10.66	15.66		15.67	0.000006	0.24	195.70	64.18	0.04
Usciana_1	54	Max WS	Att_30_24h_SIMI	37.63	10.66	15.53		15.54	0.000008	0.26	187.33	64.18	0.04
Usciana_1	53	Max WS	Att_200_24h_SIMI	57.93	10.85	15.79		15.80	0.000026	0.41	141.63	40.23	0.07
Usciana_1	53	Max WS	Att_100_24h_SIMI	108.32	10.85	15.60		15.63	0.000107	0.81	134.05	38.74	0.14
Usciana_1	53	Max WS	Att_30_24h_SIMI	99.73	10.85	15.47		15.50	0.000101	0.77	129.27	38.32	0.13
Usciana_1	52	Max WS	Att_200_24h_SIMI	57.93	10.85	15.79	12.08	15.80	0.000026	0.41	141.60	40.23	0.07
Usciana_1	52	Max WS	Att_100_24h_SIMI	108.32	10.85	15.60	12.64	15.63	0.000107	0.81	134.01	38.74	0.14
Usciana_1	52	Max WS	Att_30_24h_SIMI	99.74	10.85	15.47	12.57	15.50	0.000101	0.77	129.22	38.31	0.13

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Usciana_1	51.5			Bridge									
Usciana_1	51	Max WS	Att_200_24h_SIMI	55.94	10.85	15.79		15.80	0.000024	0.40	141.57	40.23	0.07
Usciana_1	51	Max WS	Att_100_24h_SIMI	108.22	10.85	15.60		15.63	0.000107	0.81	133.91	38.72	0.14
Usciana_1	51	Max WS	Att_30_24h_SIMI	99.74	10.85	15.47		15.50	0.000101	0.77	129.15	38.31	0.13
Usciana_1	50.9			Lat Struct									
Usciana_1	50.8			Lat Struct									
Usciana_1	50	Max WS	Att_200_24h_SIMI	55.94	10.85	15.79		15.80	0.000024	0.40	141.60	40.23	0.07
Usciana_1	50	Max WS	Att_100_24h_SIMI	107.34	10.85	15.60		15.63	0.000105	0.80	133.93	38.72	0.14
Usciana_1	50	Max WS	Att_30_24h_SIMI	99.73	10.85	15.47		15.50	0.000101	0.77	129.15	38.31	0.13
Usciana_1	49	Max WS	Att_200_24h_SIMI	56.32	10.93	15.79		15.80	0.000023	0.39	178.54	68.24	0.06
Usciana_1	49	Max WS	Att_100_24h_SIMI	106.97	10.93	15.59		15.62	0.000104	0.79	165.13	68.24	0.14
Usciana_1	49	Max WS	Att_30_24h_SIMI	99.03	10.93	15.47		15.49	0.000103	0.77	156.54	68.24	0.14
Usciana_1	48	Max WS	Att_200_24h_SIMI	38.69	10.73	15.79		15.79	0.000009	0.25	200.02	77.39	0.04
Usciana_1	48	Max WS	Att_100_24h_SIMI	77.34	10.73	15.59		15.60	0.000046	0.53	184.64	77.39	0.09
Usciana_1	48	Max WS	Att_30_24h_SIMI	72.69	10.73	15.47		15.48	0.000055	0.57	145.52	56.02	0.10
Usciana_1	47	Max WS	Att_200_24h_SIMI	32.16	10.76	15.79		15.79	0.000007	0.22	184.27	73.09	0.04
Usciana_1	47	Max WS	Att_100_24h_SIMI	62.03	10.76	15.59		15.60	0.000033	0.46	169.93	73.09	0.08
Usciana_1	47	Max WS	Att_30_24h_SIMI	59.64	10.76	15.47		15.48	0.000036	0.46	160.64	73.09	0.08
Usciana_1	46.6	Max WS	Att_200_24h_SIMI	31.43	10.86	15.79		15.79	0.000008	0.23	168.29	73.98	0.04
Usciana_1	46.6	Max WS	Att_100_24h_SIMI	59.38	10.86	15.59		15.60	0.000037	0.47	153.59	73.98	0.08
Usciana_1	46.6	Max WS	Att_30_24h_SIMI	57.64	10.86	15.46		15.47	0.000041	0.48	144.21	73.30	0.09
Usciana_1	46.59			Lat Struct									
Usciana_1	46.57			Lat Struct									
Usciana_1	46	Max WS	Att_200_24h_SIMI	24.94	11.00	15.79		15.79	0.000005	0.18	174.35	75.32	0.03
Usciana_1	46	Max WS	Att_100_24h_SIMI	66.66	11.00	15.58		15.59	0.000049	0.53	158.44	75.32	0.09
Usciana_1	46	Max WS	Att_30_24h_SIMI	78.61	11.00	15.44		15.46	0.000083	0.66	147.81	75.32	0.12

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Usciana_1	45	Max WS	Att_200_24h_SIMI	19.07	10.92	15.79		15.79	0.000003	0.14	176.06	82.09	0.02
Usciana_1	45	Max WS	Att_100_24h_SIMI	94.32	10.92	15.53		15.56	0.000132	0.84	123.77	59.81	0.15
Usciana_1	45	Max WS	Att_30_24h_SIMI	100.31	10.92	15.38		15.42	0.000185	0.96	103.98	35.00	0.18
Usciana_1	44	Max WS	Att_200_24h_SIMI	15.90	11.26	15.79		15.79	0.000004	0.14	114.83	38.27	0.03
Usciana_1	44	Max WS	Att_100_24h_SIMI	92.01	11.26	15.49		15.53	0.000167	0.89	103.50	37.02	0.17
Usciana_1	44	Max WS	Att_30_24h_SIMI	100.31	11.26	15.32		15.37	0.000237	1.03	97.41	36.33	0.20
Usciana_1	43	Max WS	Att_200_24h_SIMI	16.08	11.26	15.79	11.83	15.79	0.000004	0.14	114.78	38.26	0.03
Usciana_1	43	Max WS	Att_100_24h_SIMI	91.99	11.26	15.49	12.92	15.53	0.000168	0.89	103.43	37.00	0.17
Usciana_1	43	Max WS	Att_30_24h_SIMI	100.31	11.26	15.32	13.01	15.37	0.000238	1.03	97.33	36.31	0.20
Usciana_1	42.5			Bridge									
Usciana_1	42	Max WS	Att_200_24h_SIMI	15.90	11.26	15.79		15.79	0.000004	0.14	114.78	38.26	0.03
Usciana_1	42	Max WS	Att_100_24h_SIMI	91.98	11.26	15.48		15.52	0.000168	0.89	103.33	36.99	0.17
Usciana_1	42	Max WS	Att_30_24h_SIMI	100.31	11.26	15.31		15.37	0.000239	1.03	97.19	36.30	0.20
Usciana_1	41.9			Lat Struct									
Usciana_1	41.8			Lat Struct									
Usciana_1	41	Max WS	Att_200_24h_SIMI	15.90	11.26	15.79		15.79	0.000004	0.14	114.82	38.27	0.03
Usciana_1	41	Max WS	Att_100_24h_SIMI	91.98	11.26	15.48		15.52	0.000168	0.89	103.35	37.00	0.17
Usciana_1	41	Max WS	Att_30_24h_SIMI	100.31	11.26	15.31		15.37	0.000239	1.03	97.19	36.31	0.20
Usciana_1	40	Max WS	Att_200_24h_SIMI	14.38	10.81	15.79		15.79	0.000002	0.10	179.96	78.30	0.02
Usciana_1	40	Max WS	Att_100_24h_SIMI	91.61	10.81	15.45		15.47	0.000107	0.75	153.45	78.30	0.14
Usciana_1	40	Max WS	Att_30_24h_SIMI	100.31	10.81	15.26		15.32	0.000212	1.02	98.68	35.83	0.19
Usciana_1	39	Max WS	Att_200_24h_SIMI	11.35	10.97	15.79		15.79	0.000001	0.08	171.90	78.06	0.01
Usciana_1	39	Max WS	Att_100_24h_SIMI	75.70	10.97	15.45		15.47	0.000074	0.64	145.66	78.06	0.11
Usciana_1	39	Max WS	Att_30_24h_SIMI	100.19	10.97	15.23		15.28	0.000208	1.01	102.82	54.96	0.19
Usciana_1	38	Max WS	Att_200_24h_SIMI	9.32	10.70	15.79		15.79	0.000001	0.06	189.99	82.39	0.01
Usciana_1	38	Max WS	Att_100_24h_SIMI	59.86	10.70	15.45		15.47	0.000045	0.50	139.76	61.86	0.09
Usciana_1	38	Max WS	Att_30_24h_SIMI	99.93	10.70	15.19		15.23	0.000174	0.93	123.30	61.41	0.17

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Usciana_1	37	Max WS	Att_200_24h_SIMI	7.37	10.77	15.79		15.79	0.000000	0.05	173.68	78.63	0.01
Usciana_1	37	Max WS	Att_100_24h_SIMI	47.54	10.77	15.45		15.46	0.000032	0.42	120.88	53.12	0.08
Usciana_1	37	Max WS	Att_30_24h_SIMI	99.93	10.77	15.13		15.18	0.000202	0.99	100.48	34.77	0.19
Usciana_1	36	Max WS	Att_200_24h_SIMI	11.01	10.46	15.79		15.79	0.000001	0.08	182.29	81.99	0.01
Usciana_1	36	Max WS	Att_100_24h_SIMI	53.99	10.46	15.44		15.45	0.000037	0.45	134.67	58.12	0.08
Usciana_1	36	Max WS	Att_30_24h_SIMI	99.92	10.46	15.08		15.13	0.000202	1.00	100.16	34.43	0.19
Usciana_1	35	Max WS	Att_200_24h_SIMI	37.27	10.03	15.78		15.78	0.000011	0.27	166.62	75.25	0.05
Usciana_1	35	Max WS	Att_100_24h_SIMI	76.26	10.03	15.41		15.43	0.000077	0.65	125.18	52.62	0.12
Usciana_1	35	Max WS	Att_30_24h_SIMI	99.92	10.03	15.03		15.08	0.000198	0.99	100.77	34.14	0.18
Usciana_1	34	Max WS	Att_200_24h_SIMI	39.50	10.80	15.78		15.78	0.000018	0.32	122.15	37.24	0.06
Usciana_1	34	Max WS	Att_100_24h_SIMI	76.62	10.80	15.40		15.42	0.000096	0.71	108.29	35.84	0.13
Usciana_1	34	Max WS	Att_30_24h_SIMI	99.92	10.80	15.01		15.07	0.000240	1.05	94.86	34.43	0.20
Usciana_1	33	Max WS	Att_200_24h_SIMI	39.44	10.80	15.78	11.94	15.78	0.000018	0.32	122.22	37.23	0.06
Usciana_1	33	Max WS	Att_100_24h_SIMI	76.61	10.80	15.40	12.43	15.42	0.000096	0.71	108.36	35.83	0.13
Usciana_1	33	Max WS	Att_30_24h_SIMI	99.92	10.80	15.01	12.68	15.07	0.000240	1.05	94.90	34.42	0.20
Usciana_1	32.5			Bridge									
Usciana_1	32	Max WS	Att_200_24h_SIMI	39.42	10.80	15.77		15.78	0.000018	0.32	122.21	37.23	0.06
Usciana_1	32	Max WS	Att_100_24h_SIMI	76.62	10.80	15.39		15.42	0.000096	0.71	108.29	35.83	0.13
Usciana_1	32	Max WS	Att_30_24h_SIMI	99.92	10.80	15.01		15.07	0.000241	1.05	94.75	34.40	0.20
Usciana_1	31.9			Lat Struct									
Usciana_1	31.8			Lat Struct									
Usciana_1	31	Max WS	Att_200_24h_SIMI	39.42	10.80	15.77		15.78	0.000018	0.32	122.14	37.24	0.06
Usciana_1	31	Max WS	Att_100_24h_SIMI	76.61	10.80	15.39		15.42	0.000096	0.71	108.20	35.83	0.13
Usciana_1	31	Max WS	Att_30_24h_SIMI	99.92	10.80	15.01		15.06	0.000242	1.06	94.62	34.41	0.20
Usciana_1	30	Max WS	Att_200_24h_SIMI	39.24	9.54	15.77		15.78	0.000012	0.28	140.17	38.77	0.05
Usciana_1	30	Max WS	Att_100_24h_SIMI	76.58	9.54	15.38		15.40	0.000062	0.61	125.50	36.73	0.11
Usciana_1	30	Max WS	Att_30_24h_SIMI	99.92	9.54	14.98		15.02	0.000150	0.90	110.92	35.21	0.16

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Usciana_1	29	Max WS	Att_200_24h_SIMI	37.12	9.80	15.77		15.77	0.000011	0.27	139.68	39.62	0.05
Usciana_1	29	Max WS	Att_100_24h_SIMI	76.56	9.80	15.36		15.38	0.000067	0.62	123.95	37.93	0.11
Usciana_1	29	Max WS	Att_30_24h_SIMI	99.92	9.80	14.93		14.98	0.000169	0.93	107.97	36.12	0.17
Usciana_1	28	Max WS	Att_200_24h_SIMI	17.07	10.23	15.77		15.77	0.000002	0.12	154.20	73.64	0.02
Usciana_1	28	Max WS	Att_100_24h_SIMI	76.55	10.23	15.35		15.37	0.000073	0.64	120.03	37.29	0.11
Usciana_1	28	Max WS	Att_30_24h_SIMI	99.92	10.23	14.90		14.94	0.000189	0.97	103.51	35.47	0.18
Usciana_1	27.9			Lat Struct									
Usciana_1	27.5	Max WS	Att_200_24h_SIMI	17.95	10.16	15.77		15.77	0.000003	0.13	135.14	38.85	0.02
Usciana_1	27.5	Max WS	Att_100_24h_SIMI	76.54	10.16	15.34		15.36	0.000074	0.64	119.02	37.17	0.11
Usciana_1	27.5	Max WS	Att_30_24h_SIMI	99.92	10.16	14.88		14.93	0.000196	0.98	102.17	35.32	0.18
Usciana_1	27.49			Lat Struct									
Usciana_1	27	Max WS	Att_200_24h_SIMI	17.93	10.08	15.77		15.77	0.000003	0.13	134.34	38.75	0.02
Usciana_1	27	Max WS	Att_100_24h_SIMI	76.54	10.08	15.34		15.36	0.000077	0.65	118.03	37.06	0.12
Usciana_1	27	Max WS	Att_30_24h_SIMI	99.92	10.08	14.86		14.91	0.000205	0.99	100.83	35.20	0.19
Usciana_1	26	Max WS	Att_200_24h_SIMI	17.94	10.15	15.77		15.77	0.000003	0.13	138.72	40.31	0.02
Usciana_1	26	Max WS	Att_100_24h_SIMI	76.51	10.15	15.32		15.34	0.000071	0.63	121.50	37.76	0.11
Usciana_1	26	Max WS	Att_30_24h_SIMI	99.92	10.15	14.82		14.87	0.000193	0.97	103.01	35.70	0.18
Usciana_1	25	Max WS	Att_200_24h_SIMI	34.25	9.88	15.76		15.77	0.000005	0.19	223.79	91.03	0.03
Usciana_1	25	Max WS	Att_100_24h_SIMI	86.65	9.88	15.31		15.33	0.000054	0.58	182.61	91.03	0.10
Usciana_1	25	Max WS	Att_30_24h_SIMI	99.91	9.88	14.80		14.84	0.000136	0.86	116.62	37.24	0.15
Usciana_1	24	Max WS	Att_200_24h_SIMI	53.60	10.05	15.75		15.76	0.000016	0.33	195.03	79.15	0.05
Usciana_1	24	Max WS	Att_100_24h_SIMI	113.30	10.05	15.26		15.29	0.000132	0.86	139.21	60.51	0.15
Usciana_1	24	Max WS	Att_30_24h_SIMI	99.92	10.05	14.77		14.81	0.000172	0.91	110.26	38.85	0.17
Usciana_1	23	Max WS	Att_200_24h_SIMI	95.91	9.88	15.72		15.74	0.000054	0.61	179.08	76.15	0.10
Usciana_1	23	Max WS	Att_100_24h_SIMI	106.51	9.88	15.23		15.26	0.000109	0.81	131.00	38.20	0.14
Usciana_1	23	Max WS	Att_30_24h_SIMI	99.91	9.88	14.74		14.78	0.000148	0.89	112.77	36.38	0.16
Usciana_1	22	Max WS	Att_200_24h_SIMI	125.50	9.86	15.67		15.70	0.000106	0.84	152.29	57.01	0.14
Usciana_1	22	Max WS	Att_100_24h_SIMI	106.55	9.86	15.19		15.22	0.000115	0.82	130.02	39.27	0.14

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Usciana_1	22	Max WS	Att_30_24h_SIMI	99.91	9.86	14.69		14.73	0.000160	0.90	110.78	37.18	0.17
Usciana_1	21	Max WS	Att_200_24h_SIMI	166.18	9.77	15.60		15.65	0.000162	0.99	191.59	71.14	0.17
Usciana_1	21	Max WS	Att_100_24h_SIMI	114.93	9.77	15.15		15.19	0.000145	0.87	132.19	43.63	0.16
Usciana_1	21	Max WS	Att_30_24h_SIMI	99.91	9.77	14.64		14.69	0.000185	0.90	110.55	41.39	0.18
Usciana_2	20	Max WS	Att_200_24h_SIMI	188.77	9.77	15.60		15.66	0.000208	1.12	191.59	71.14	0.19
Usciana_2	20	Max WS	Att_100_24h_SIMI	143.08	9.77	15.15		15.21	0.000225	1.08	132.19	43.63	0.20
Usciana_2	20	Max WS	Att_30_24h_SIMI	103.61	9.77	14.64		14.69	0.000199	0.94	110.55	41.39	0.18
Usciana_2	19.6	Max WS	Att_200_24h_SIMI	188.77	10.00	15.58		15.65	0.000222	1.22	155.16	42.29	0.20
Usciana_2	19.6	Max WS	Att_100_24h_SIMI	143.08	10.00	15.15		15.20	0.000183	1.04	137.17	40.90	0.18
Usciana_2	19.6	Max WS	Att_30_24h_SIMI	103.61	10.00	14.64		14.68	0.000154	0.89	116.99	39.28	0.16
Usciana_2	19.5	Max WS	Att_200_24h_SIMI	188.77	10.16	15.57		15.65	0.000207	1.21	155.97	40.29	0.20
Usciana_2	19.5	Max WS	Att_100_24h_SIMI	143.08	10.16	15.14		15.20	0.000168	1.03	138.78	39.34	0.18
Usciana_2	19.5	Max WS	Att_30_24h_SIMI	103.61	10.16	14.64		14.68	0.000138	0.87	119.37	37.90	0.16
Usciana_2	19.49			Lat Struct									
Usciana_2	19.3	Max WS	Att_200_24h_SIMI	200.47	10.22	15.55		15.63	0.000234	1.29	154.99	39.45	0.21
Usciana_2	19.3	Max WS	Att_100_24h_SIMI	150.55	10.22	15.13		15.19	0.000184	1.09	138.51	38.62	0.18
Usciana_2	19.3	Max WS	Att_30_24h_SIMI	103.61	10.22	14.64		14.68	0.000133	0.86	119.92	37.29	0.15
Usciana_2	19	Max WS	Att_200_24h_SIMI	200.47	10.45	15.53		15.62	0.000250	1.33	151.25	36.03	0.21
Usciana_2	19	Max WS	Att_100_24h_SIMI	150.55	10.45	15.12		15.18	0.000193	1.10	136.33	35.55	0.18
Usciana_2	19	Max WS	Att_30_24h_SIMI	103.61	10.45	14.63		14.67	0.000135	0.87	119.24	34.40	0.15
Usciana_2	18	Max WS	Att_200_24h_SIMI	200.47	10.45	15.53	12.38	15.62	0.000250	1.33	151.24	36.02	0.21
Usciana_2	18	Max WS	Att_100_24h_SIMI	150.55	10.45	15.12	12.08	15.18	0.000193	1.10	136.33	35.55	0.18
Usciana_2	18	Max WS	Att_30_24h_SIMI	103.61	10.45	14.63	11.76	14.67	0.000134	0.87	119.26	34.40	0.15
Usciana_2	17.5			Bridge									
Usciana_2	17	Max WS	Att_200_24h_SIMI	200.45	10.45	15.52		15.61	0.000252	1.33	150.81	36.01	0.21
Usciana_2	17	Max WS	Att_100_24h_SIMI	150.55	10.45	15.11		15.17	0.000194	1.11	136.08	35.54	0.18
Usciana_2	17	Max WS	Att_30_24h_SIMI	103.61	10.45	14.63		14.67	0.000135	0.87	119.12	34.38	0.15

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Usciana_2	16	Max WS	Att_200_24h_SIMI	200.45	10.45	15.52		15.61	0.000252	1.33	150.74	36.01	0.21
Usciana_2	16	Max WS	Att_100_24h_SIMI	150.55	10.45	15.11		15.17	0.000194	1.11	136.00	35.54	0.18
Usciana_2	16	Max WS	Att_30_24h_SIMI	103.61	10.45	14.63		14.66	0.000135	0.87	119.06	34.38	0.15
Usciana_2	15.5	Max WS	Att_200_24h_SIMI	200.45	10.00	15.44	12.71	15.55	0.000357	1.45	138.69	41.38	0.25
Usciana_2	15.5	Max WS	Att_100_24h_SIMI	150.54	10.00	15.04	12.19	15.12	0.000288	1.23	122.60	39.95	0.22
Usciana_2	15.5	Max WS	Att_30_24h_SIMI	103.61	10.00	14.58	11.74	14.63	0.000219	0.99	104.40	38.24	0.19
Usciana_2	15.4			Inl Struct									
Usciana_2	15	Max WS	Att_200_24h_SIMI	200.45	9.25	15.39		15.47	0.000231	1.25	160.09	41.77	0.20
Usciana_2	15	Max WS	Att_100_24h_SIMI	150.54	9.25	15.00		15.06	0.000175	1.04	144.42	40.32	0.18
Usciana_2	15	Max WS	Att_30_24h_SIMI	103.61	9.25	14.55		14.58	0.000122	0.82	126.43	38.59	0.14
Usciana_2	14	Max WS	Att_200_24h_SIMI	200.45	9.65	15.31		15.40	0.000293	1.35	148.66	42.09	0.23
Usciana_2	14	Max WS	Att_100_24h_SIMI	150.54	9.65	14.94		15.01	0.000226	1.13	133.63	40.90	0.20
Usciana_2	14	Max WS	Att_30_24h_SIMI	103.61	9.65	14.51		14.55	0.000162	0.89	116.06	39.41	0.17
Usciana_2	13	Max WS	Att_200_24h_SIMI	200.45	9.65	15.30	12.14	15.40	0.000293	1.35	148.59	42.09	0.23
Usciana_2	13	Max WS	Att_100_24h_SIMI	150.54	9.65	14.94	11.71	15.01	0.000226	1.13	133.58	40.89	0.20
Usciana_2	13	Max WS	Att_30_24h_SIMI	103.61	9.65	14.51	11.27	14.55	0.000162	0.89	116.02	39.39	0.17
Usciana_2	12.5			Bridge									
Usciana_2	12	Max WS	Att_200_24h_SIMI	200.45	9.65	15.30		15.39	0.000294	1.35	148.47	42.08	0.23
Usciana_2	12	Max WS	Att_100_24h_SIMI	150.54	9.65	14.94		15.00	0.000227	1.13	133.48	40.89	0.20
Usciana_2	12	Max WS	Att_30_24h_SIMI	103.61	9.65	14.50		14.54	0.000162	0.89	115.96	39.37	0.17
Usciana_2	11	Max WS	Att_200_24h_SIMI	200.45	9.65	15.30		15.39	0.000294	1.35	148.40	42.07	0.23
Usciana_2	11	Max WS	Att_100_24h_SIMI	150.54	9.65	14.94		15.00	0.000227	1.13	133.43	40.88	0.20
Usciana_2	11	Max WS	Att_30_24h_SIMI	103.61	9.65	14.50		14.54	0.000163	0.89	115.93	39.36	0.17
Usciana_2	10	Max WS	Att_200_24h_SIMI	200.45	8.93	15.28		15.35	0.000214	1.21	165.49	42.73	0.20
Usciana_2	10	Max WS	Att_100_24h_SIMI	150.55	8.93	14.92		14.97	0.000160	1.00	150.51	41.61	0.17
Usciana_2	10	Max WS	Att_30_24h_SIMI	103.61	8.93	14.49		14.52	0.000109	0.78	132.88	40.25	0.14
Usciana_2	9	Max WS	Att_200_24h_SIMI	200.45	9.05	15.23		15.31	0.000231	1.24	161.06	42.43	0.20
Usciana_2	9	Max WS	Att_100_24h_SIMI	150.55	9.05	14.89		14.94	0.000172	1.03	146.66	41.42	0.17

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Usciana_2	9	Max WS	Att_30_24h_SIMI	103.61	9.05	14.47		14.50	0.000118	0.80	129.49	40.19	0.14
Usciana_2	8	Max WS	Att_200_24h_SIMI	200.45	9.06	15.17		15.25	0.000228	1.24	162.23	42.99	0.20
Usciana_2	8	Max WS	Att_100_24h_SIMI	150.54	9.06	14.85		14.90	0.000168	1.02	148.29	42.01	0.17
Usciana_2	8	Max WS	Att_30_24h_SIMI	103.61	9.06	14.44		14.47	0.000114	0.79	131.44	40.80	0.14
Usciana_2	7	Max WS	Att_200_24h_SIMI	200.44	9.61	15.06		15.17	0.000350	1.45	138.55	40.48	0.25
Usciana_2	7	Max WS	Att_100_24h_SIMI	150.52	9.61	14.77		14.84	0.000256	1.19	126.72	39.40	0.21
Usciana_2	7	Max WS	Att_30_24h_SIMI	103.61	9.61	14.39		14.43	0.000169	0.92	112.24	37.32	0.17
Usciana_2	6	Max WS	Att_200_24h_SIMI	200.44	9.61	15.06	12.50	15.17	0.000351	1.45	138.40	40.43	0.25
Usciana_2	6	Max WS	Att_100_24h_SIMI	150.52	9.61	14.76	11.92	14.84	0.000256	1.19	126.61	39.33	0.21
Usciana_2	6	Max WS	Att_30_24h_SIMI	103.61	9.61	14.39	11.44	14.43	0.000169	0.92	112.19	37.27	0.17
Usciana_2	5.5			Bridge									
Usciana_2	5	Max WS	Att_200_24h_SIMI	200.44	9.61	15.06		15.16	0.000352	1.45	138.25	40.42	0.25
Usciana_2	5	Max WS	Att_100_24h_SIMI	150.52	9.61	14.76		14.83	0.000257	1.19	126.52	39.31	0.21
Usciana_2	5	Max WS	Att_30_24h_SIMI	103.61	9.61	14.38		14.43	0.000169	0.92	112.13	37.26	0.17
Usciana_2	4	Max WS	Att_200_24h_SIMI	200.44	9.61	15.05		15.16	0.000353	1.45	138.24	40.45	0.25
Usciana_2	4	Max WS	Att_100_24h_SIMI	150.52	9.61	14.76		14.83	0.000257	1.19	126.50	39.36	0.21
Usciana_2	4	Max WS	Att_30_24h_SIMI	103.61	9.61	14.38		14.43	0.000170	0.92	112.12	37.31	0.17
Usciana_2	3	Max WS	Att_200_24h_SIMI	200.44	8.67	14.99		15.08	0.000277	1.32	151.83	42.95	0.22
Usciana_2	3	Max WS	Att_100_24h_SIMI	150.48	8.67	14.72		14.78	0.000199	1.07	140.03	42.14	0.19
Usciana_2	3	Max WS	Att_30_24h_SIMI	103.61	8.67	14.35		14.39	0.000132	0.83	124.95	41.07	0.15
Usciana_2	2	Max WS	Att_200_24h_SIMI	200.41	9.06	14.94		15.03	0.000289	1.34	149.73	43.03	0.23
Usciana_2	2	Max WS	Att_100_24h_SIMI	150.42	9.06	14.68		14.74	0.000205	1.09	138.55	42.25	0.19
Usciana_2	2	Max WS	Att_30_24h_SIMI	103.60	9.06	14.33		14.37	0.000136	0.84	123.97	41.20	0.15
Usciana_2	1	Max WS	Att_200_24h_SIMI	200.31	9.28	14.90	12.34	14.99	0.000328	1.36	147.76	46.72	0.24
Usciana_2	1	Max WS	Att_100_24h_SIMI	149.90	9.28	14.65	11.94	14.71	0.000230	1.10	136.26	45.18	0.20
Usciana_2	1	Max WS	Att_30_24h_SIMI	95.90	9.28	14.31	11.33	14.34	0.000132	0.79	121.22	43.48	0.15



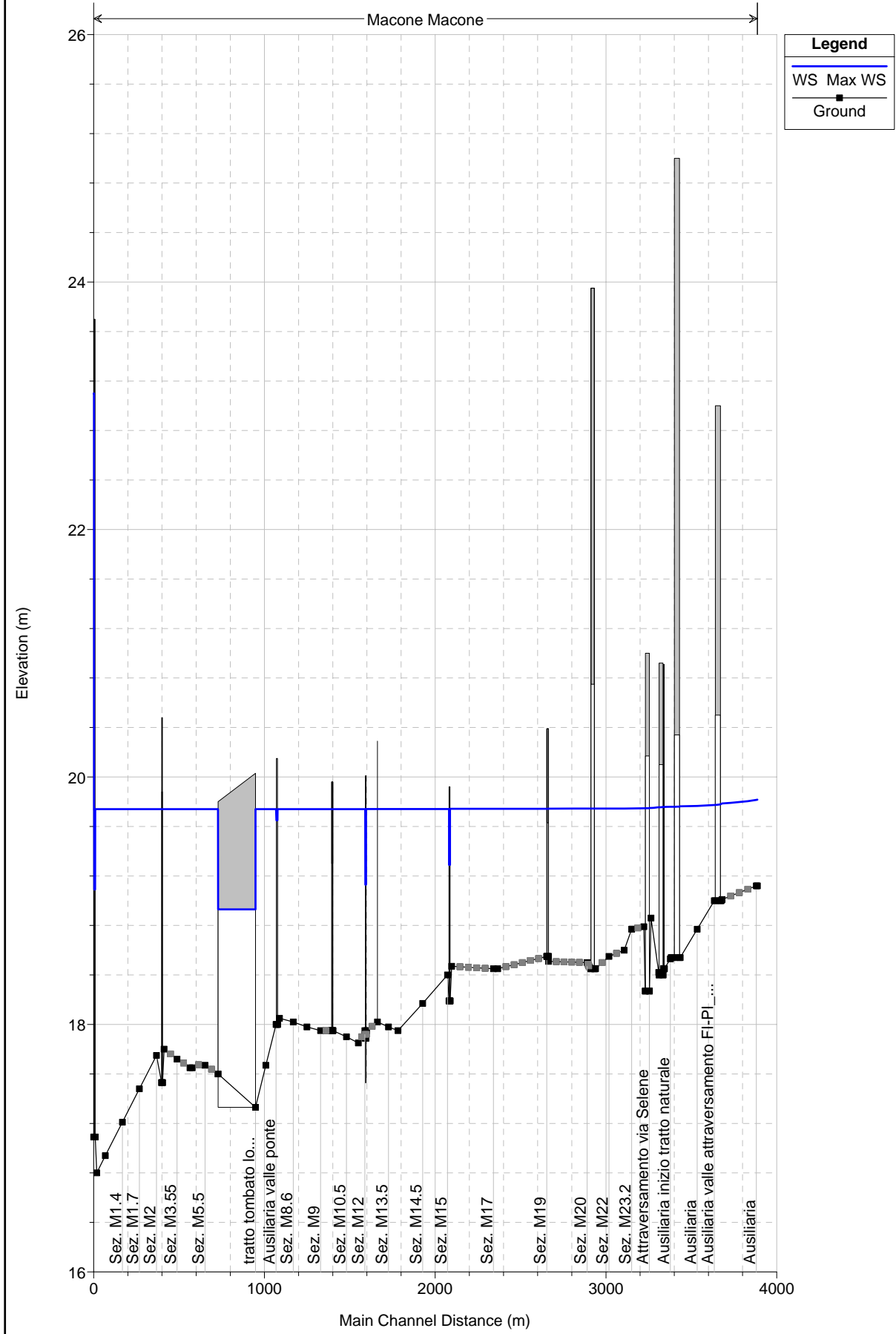
# **Scenario C**

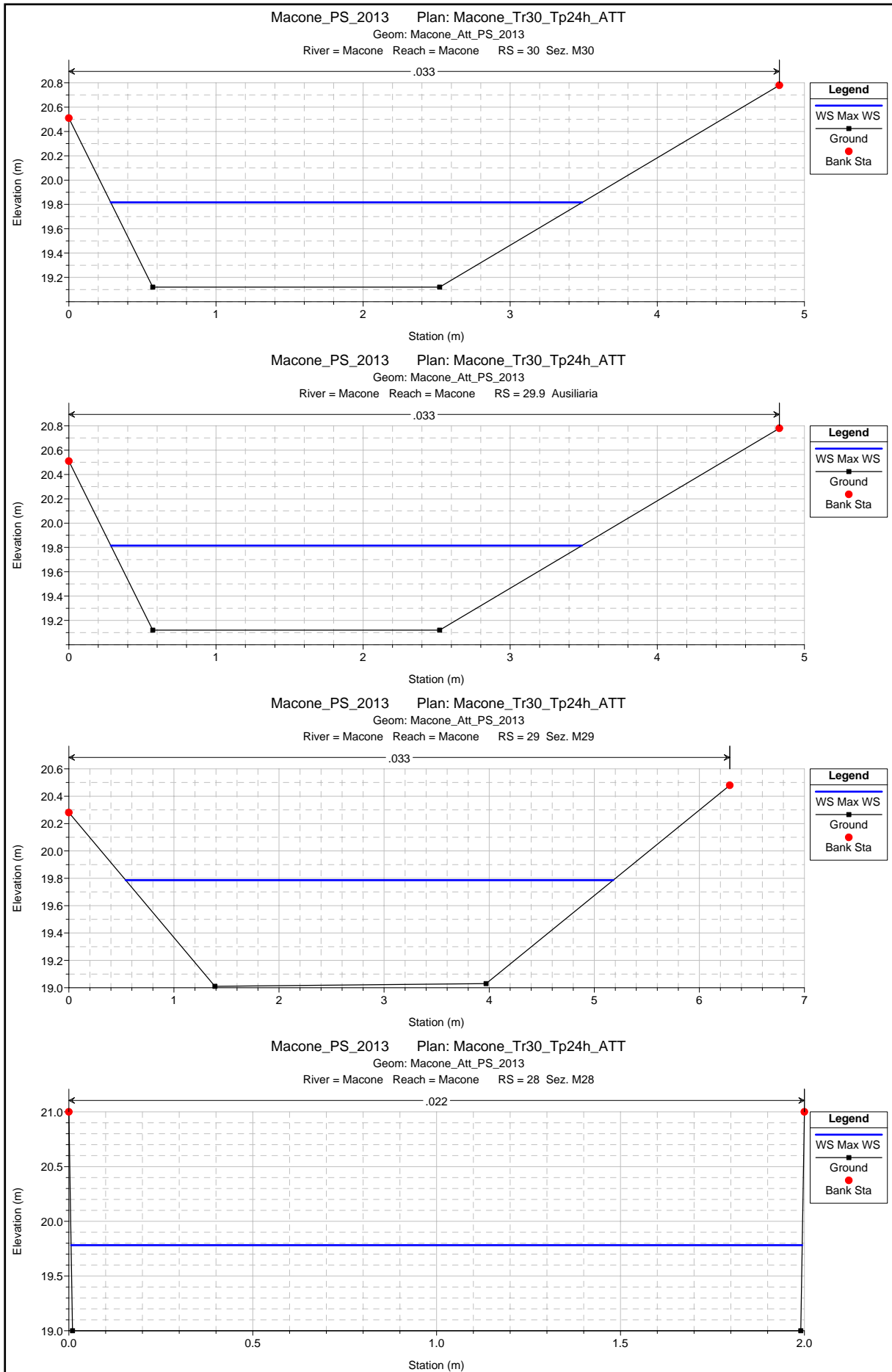
**Tr 30 anni**

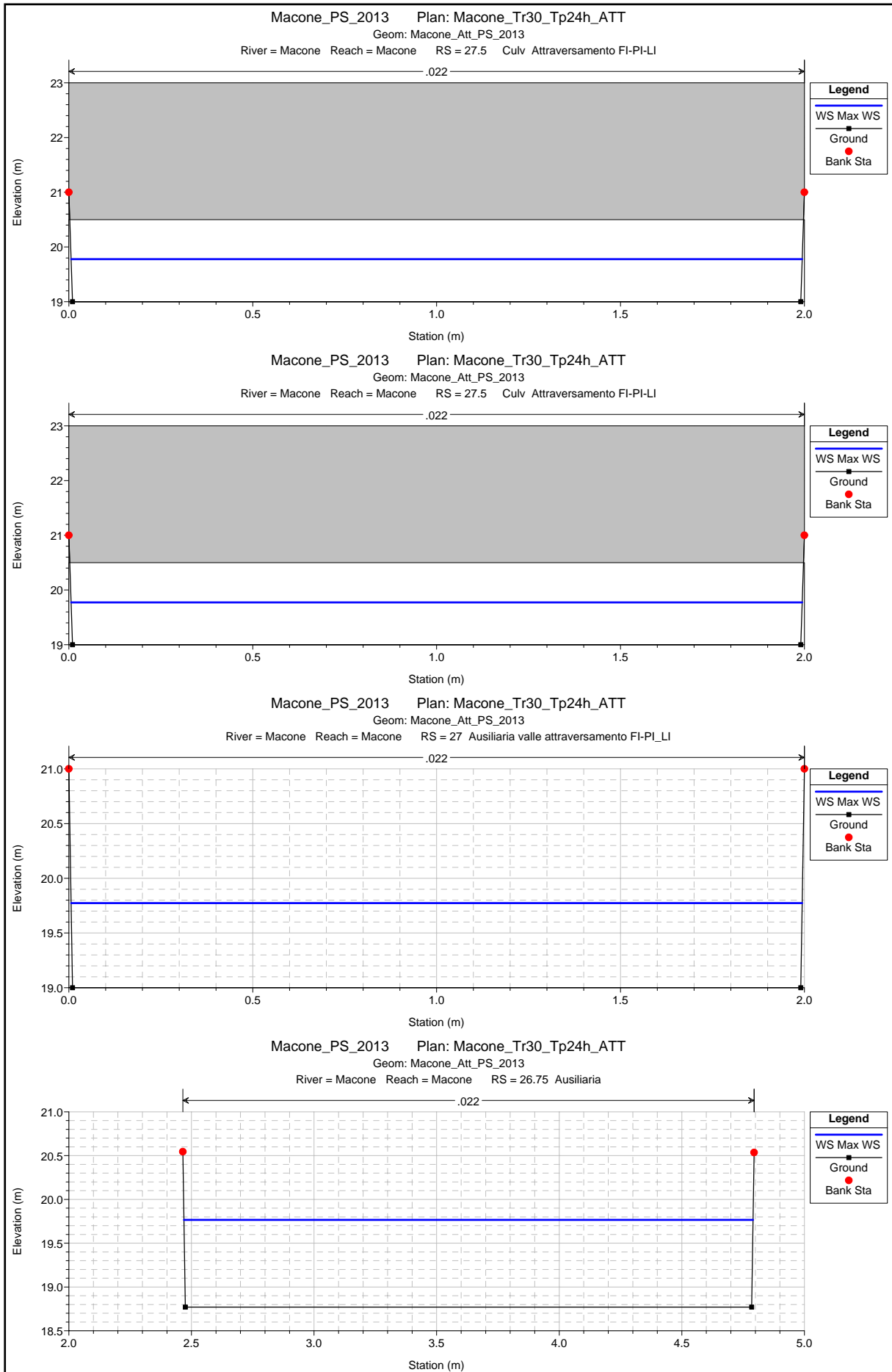
## **RIO MACONE**

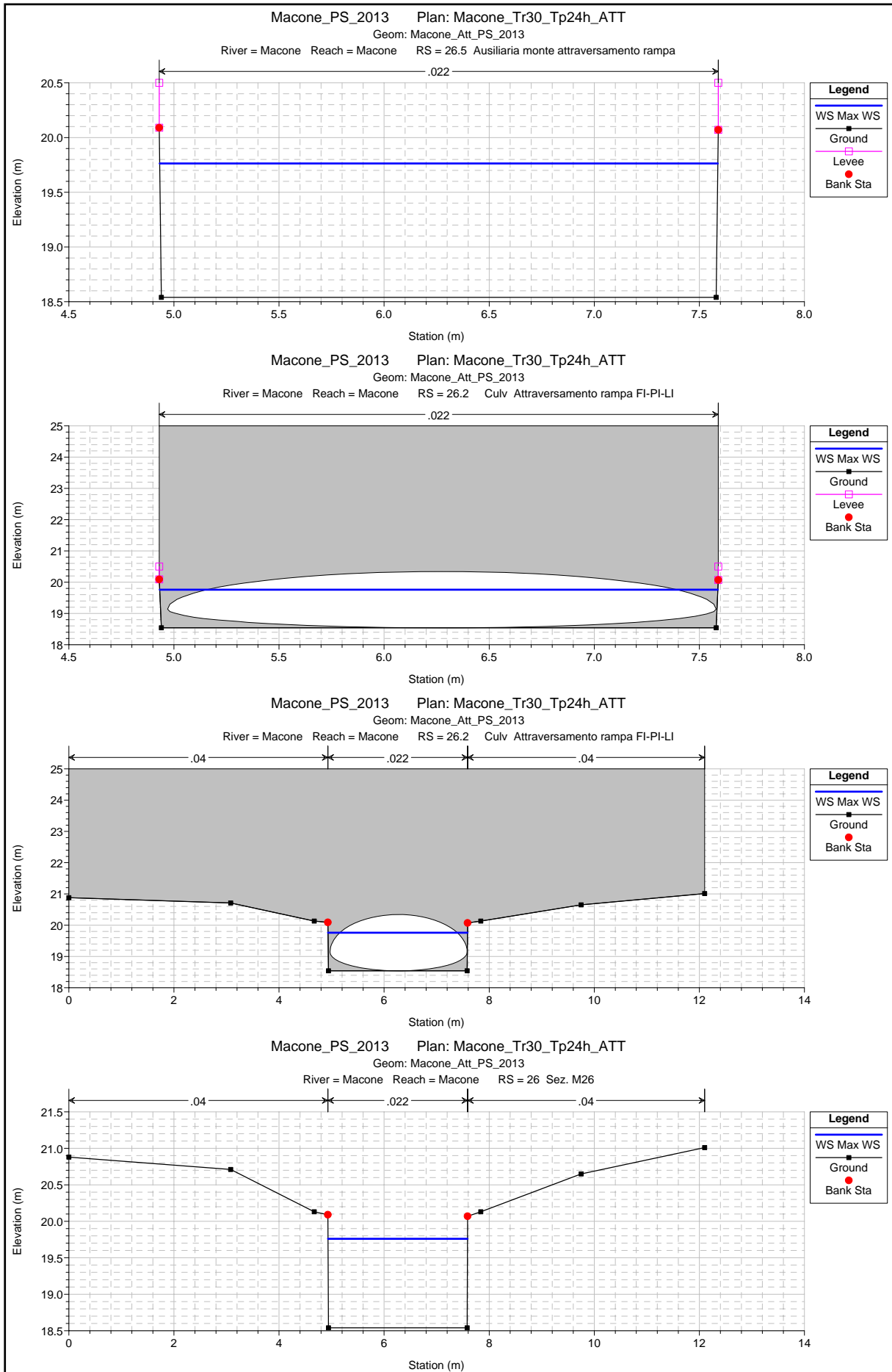
- **Profili**
- **Sezioni**
- **Tabelle di Output**

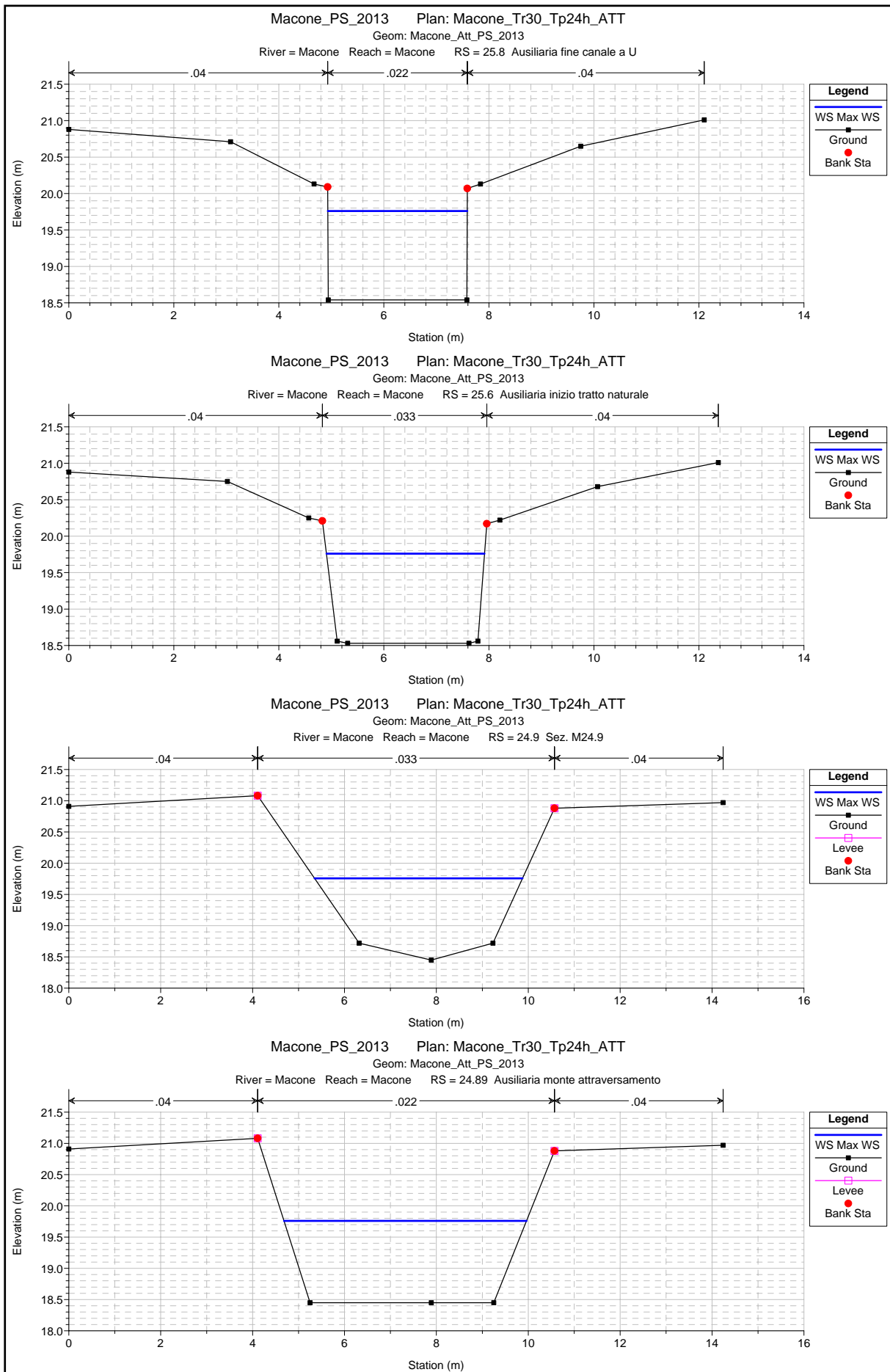
Macone\_PS\_2013 Plan: Macone\_Tr30\_Tp24h\_ATT  
 Geom: Macone\_Att\_PS\_2013

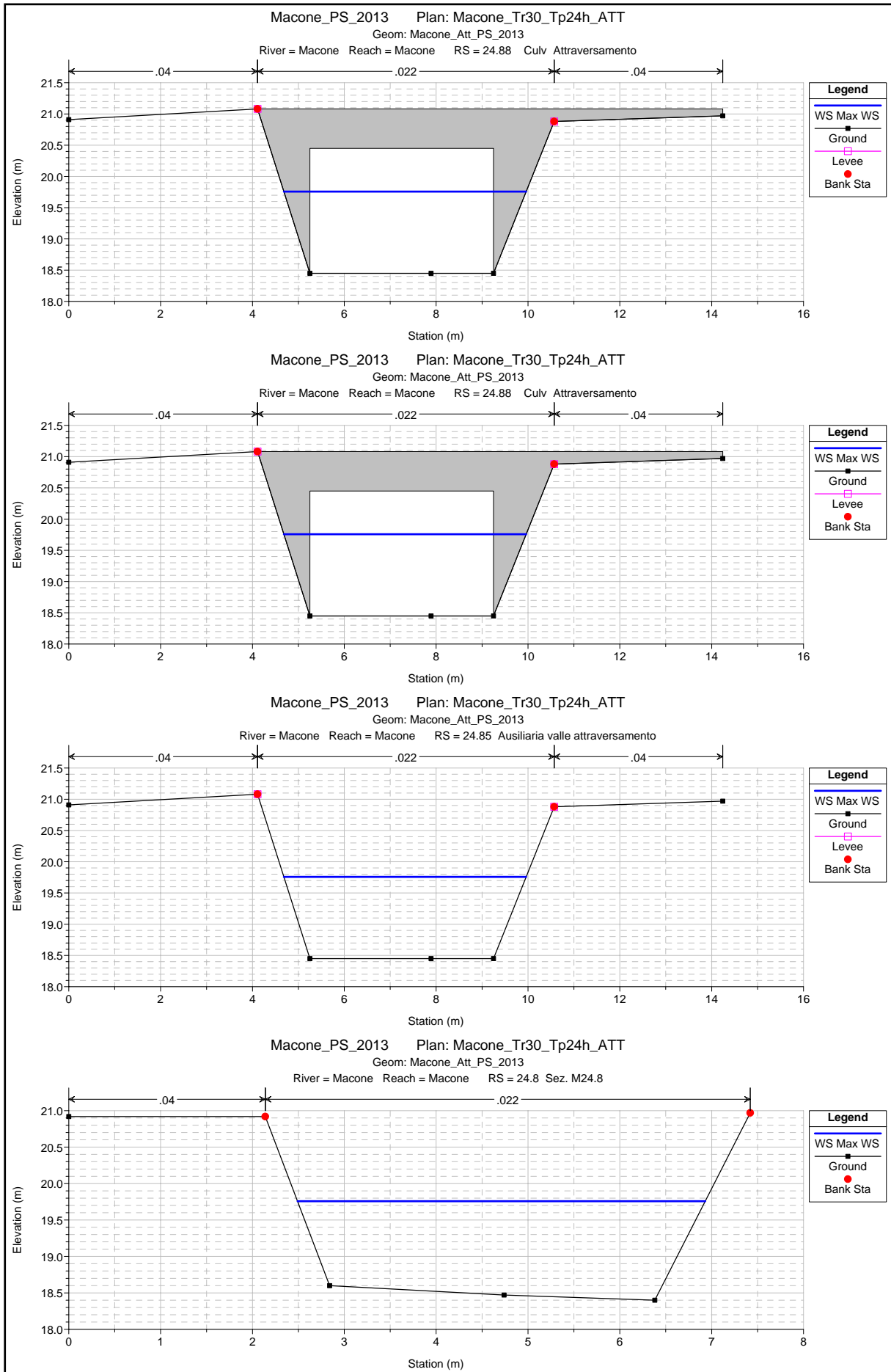


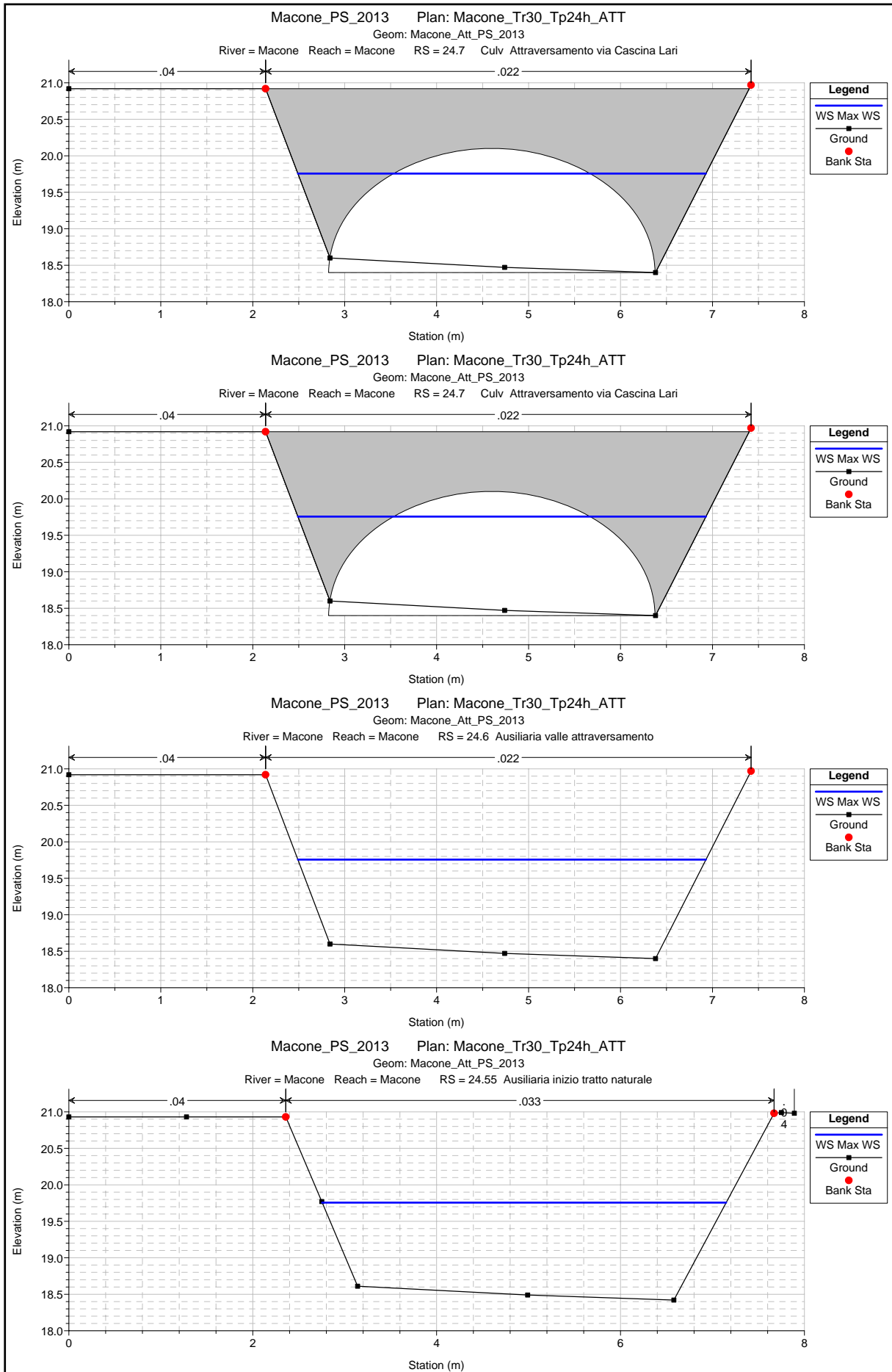




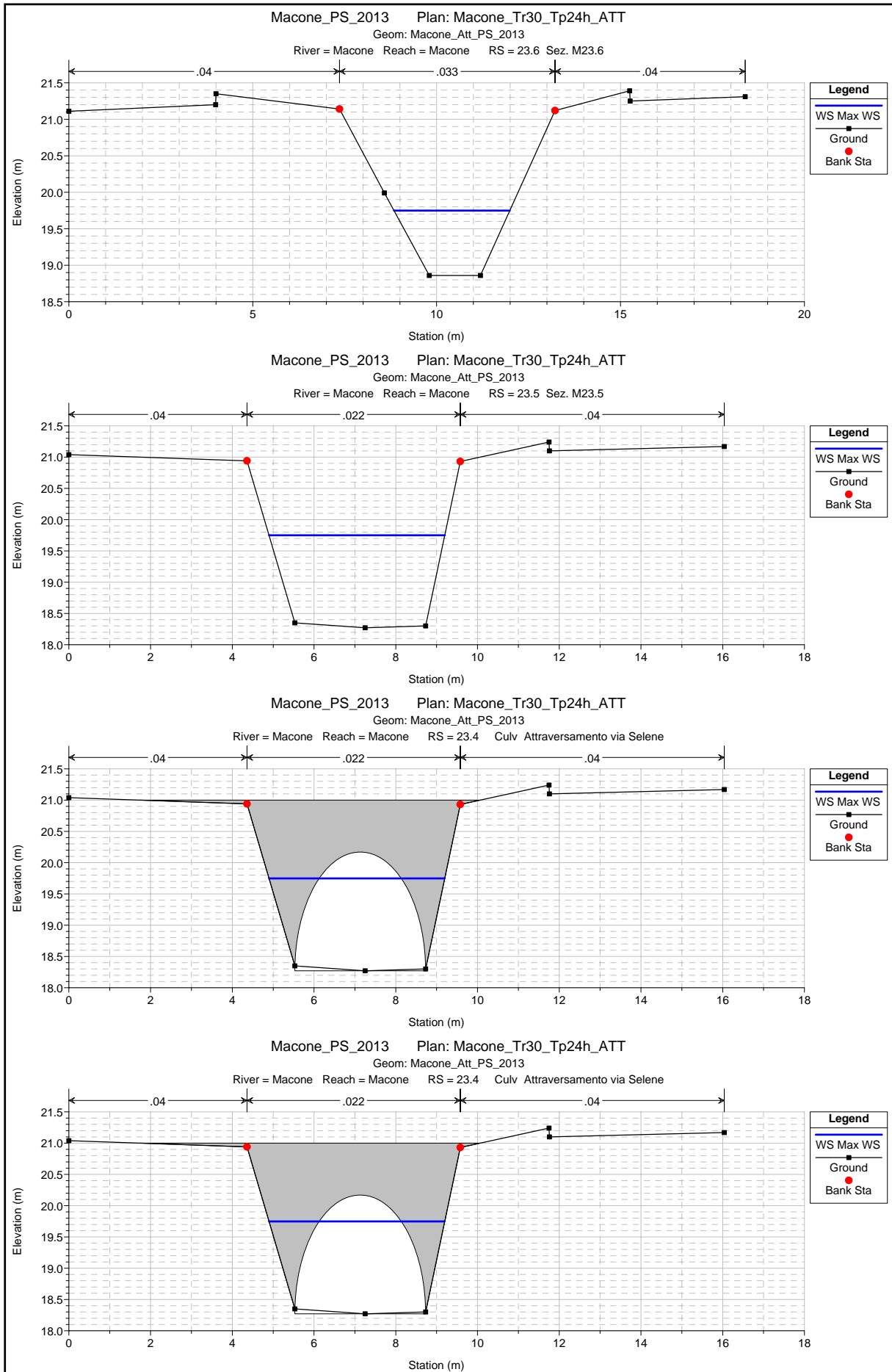


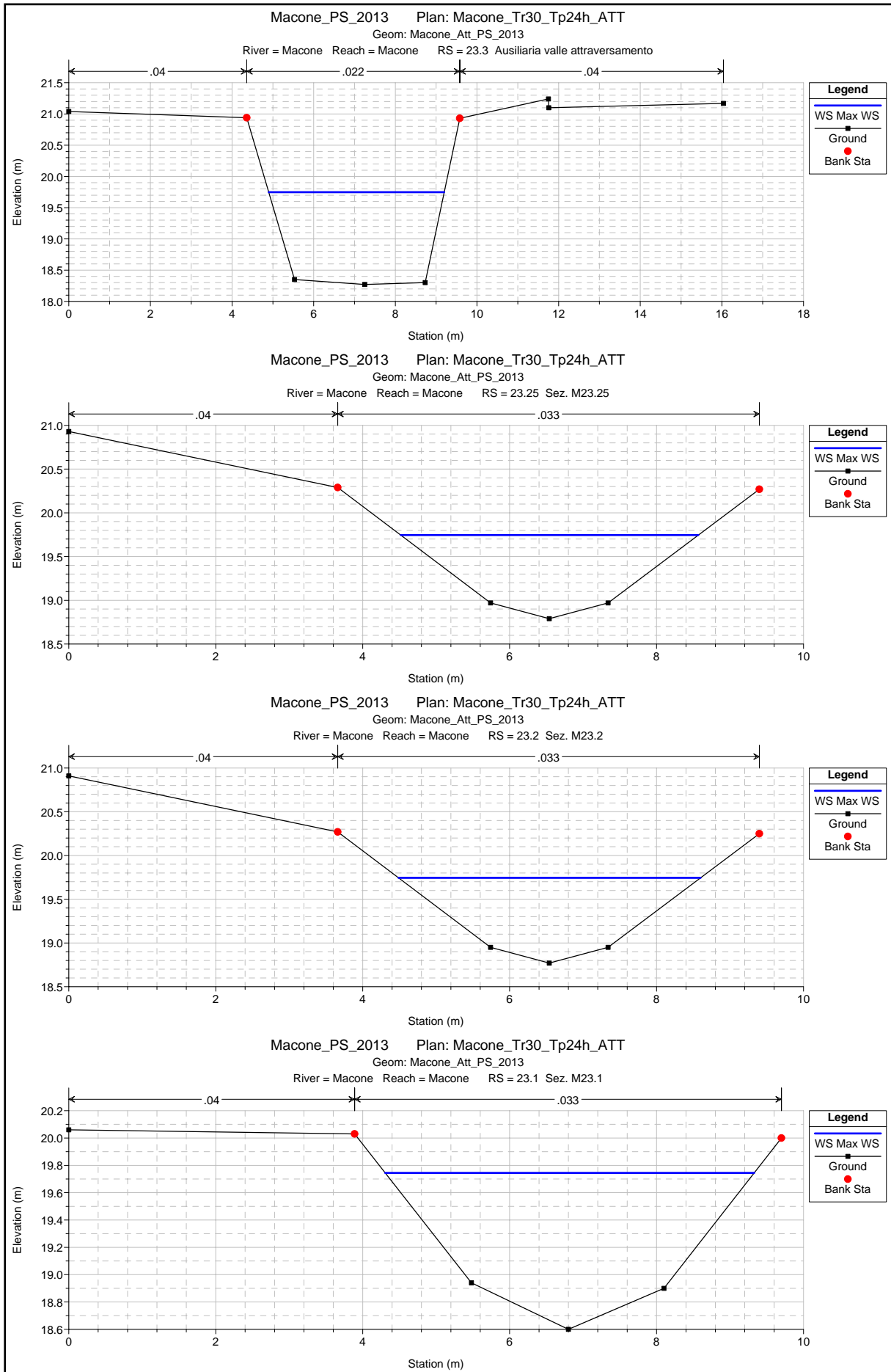


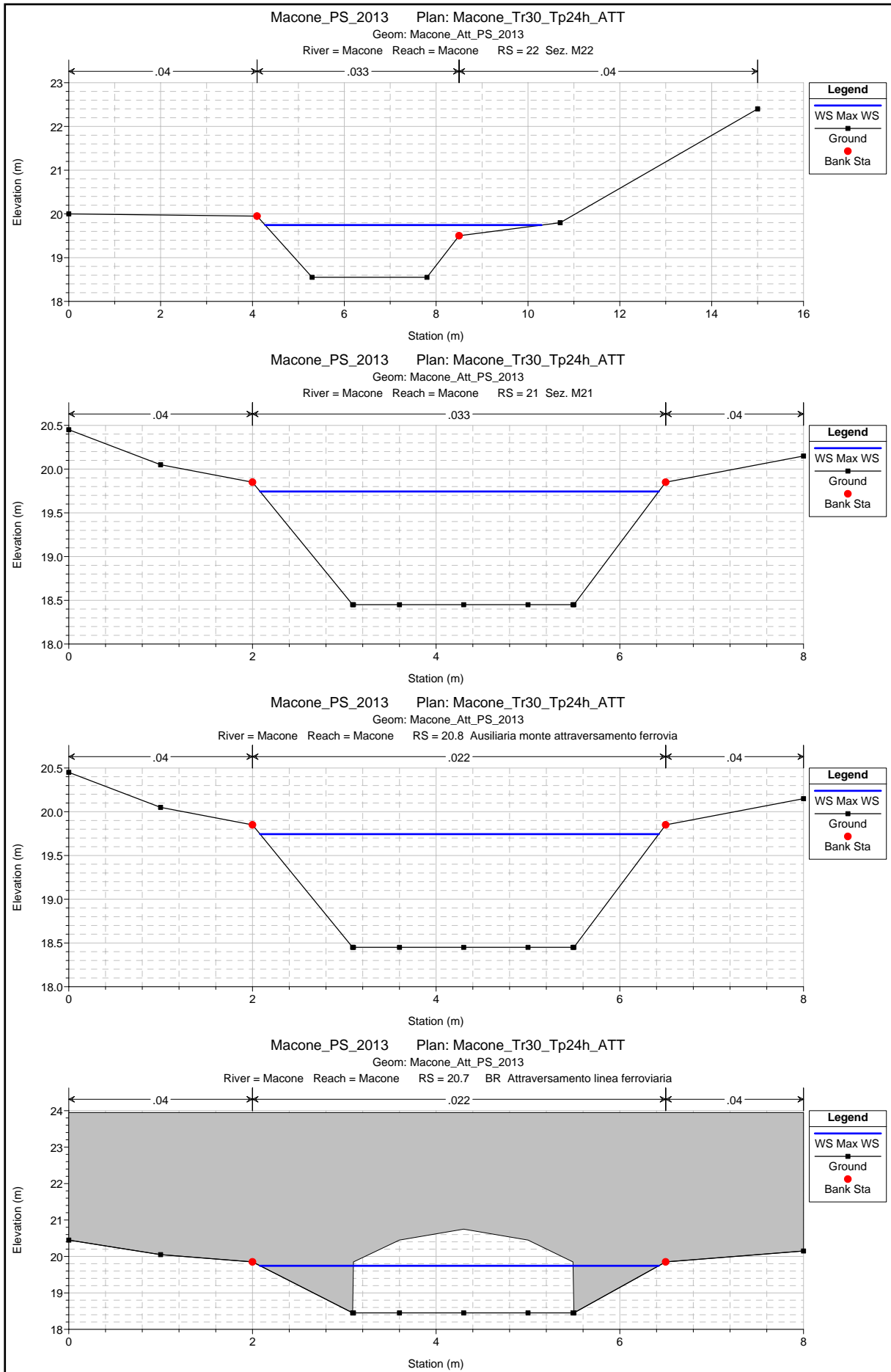


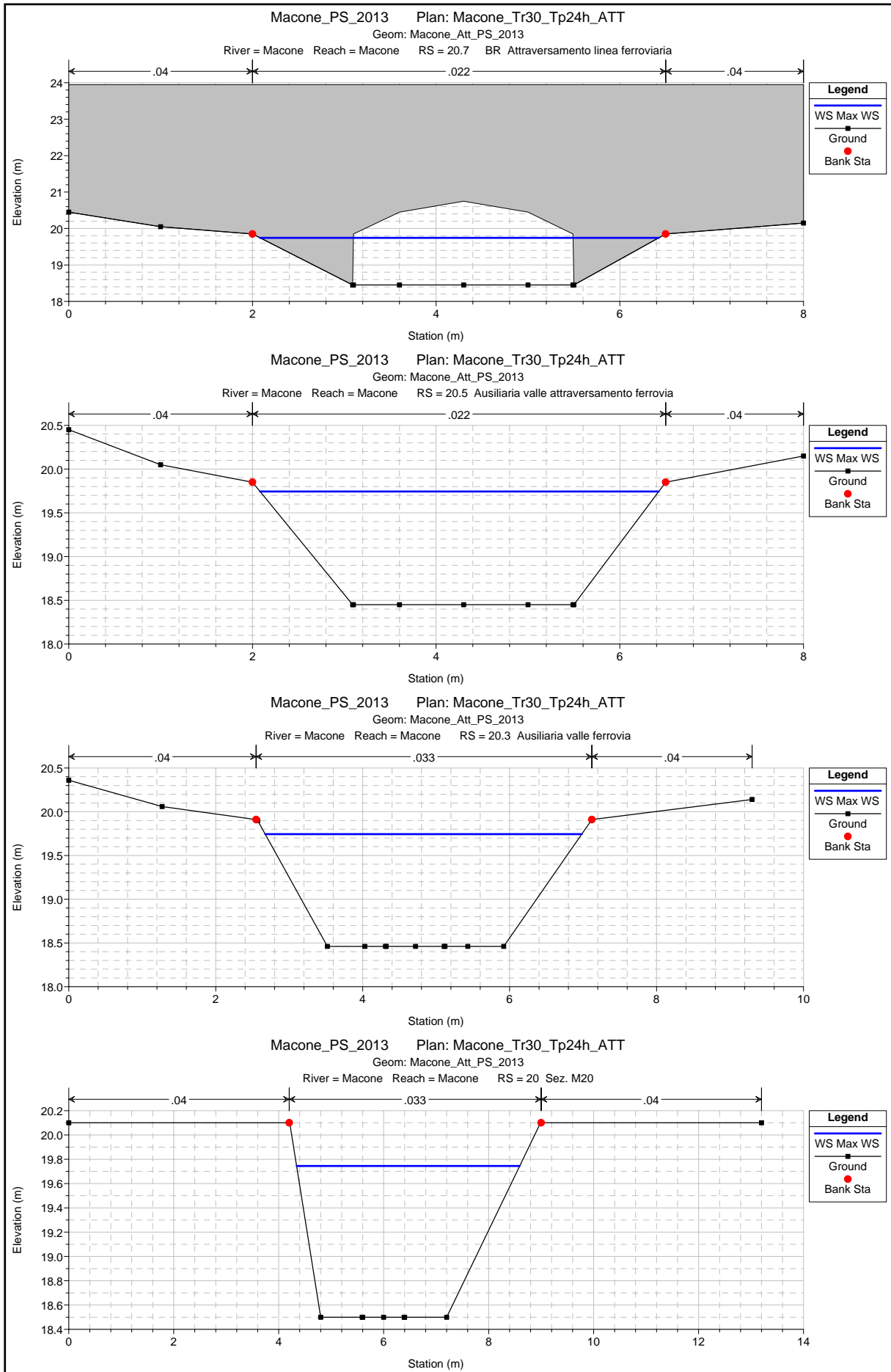


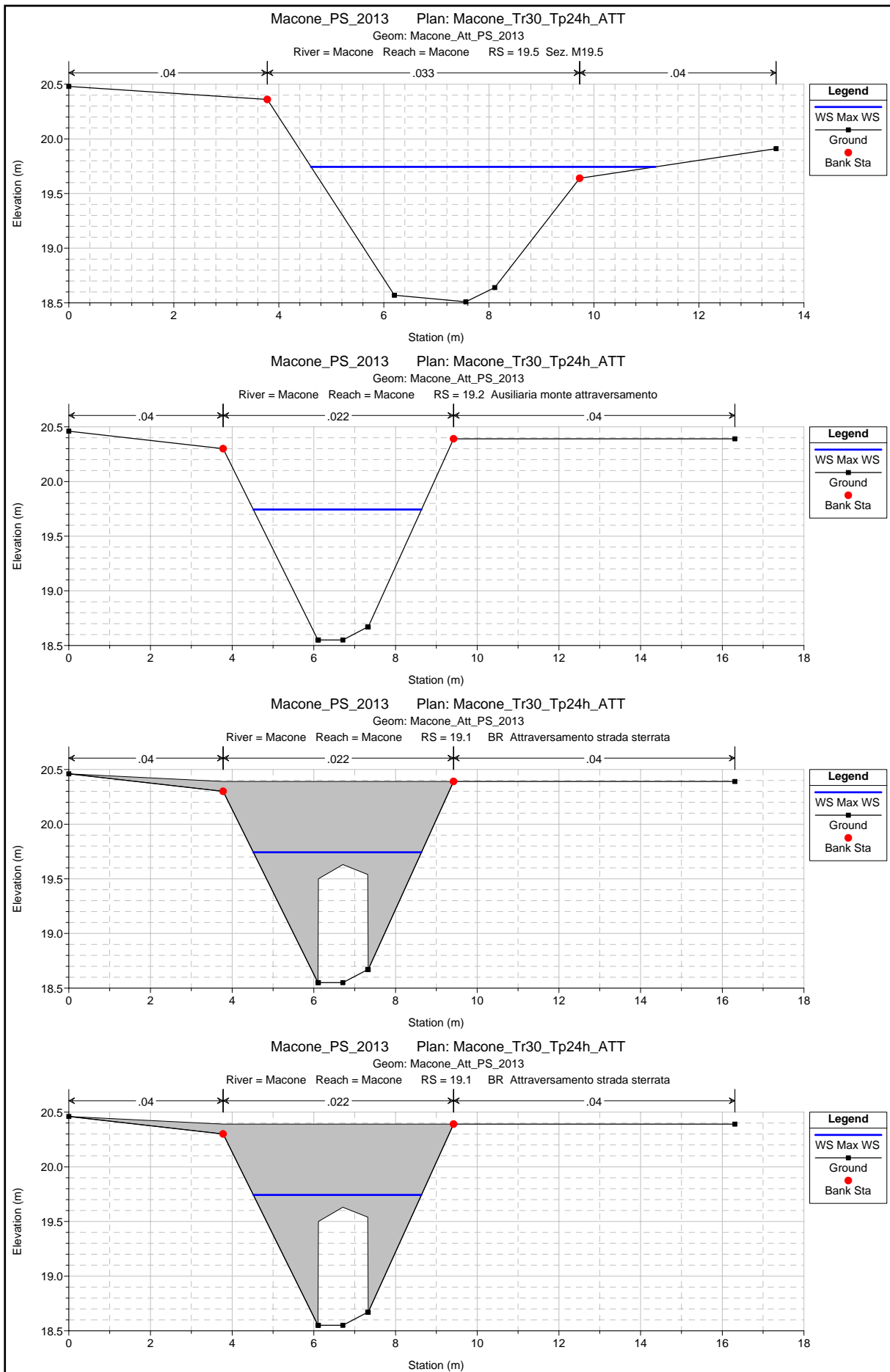


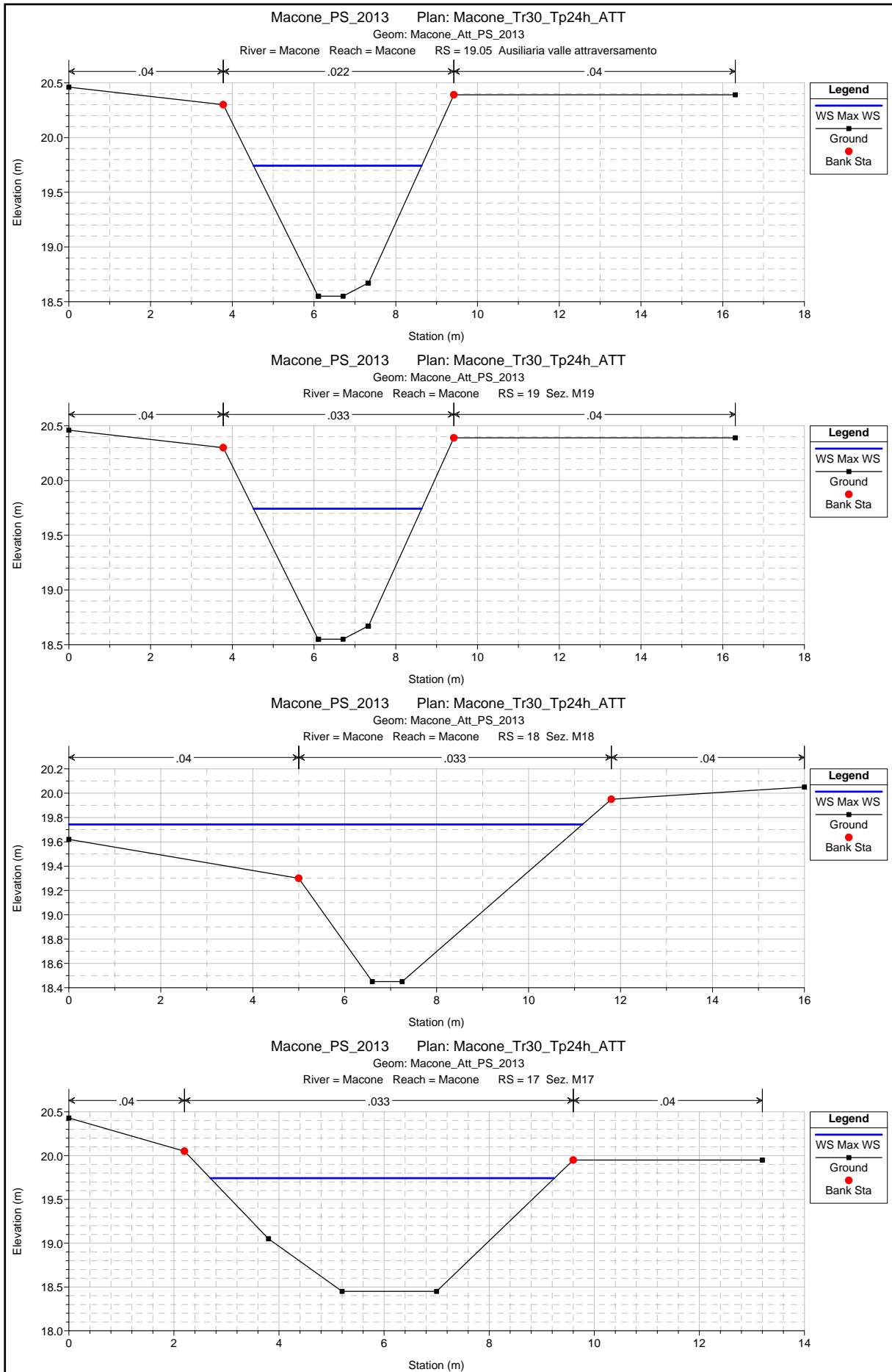


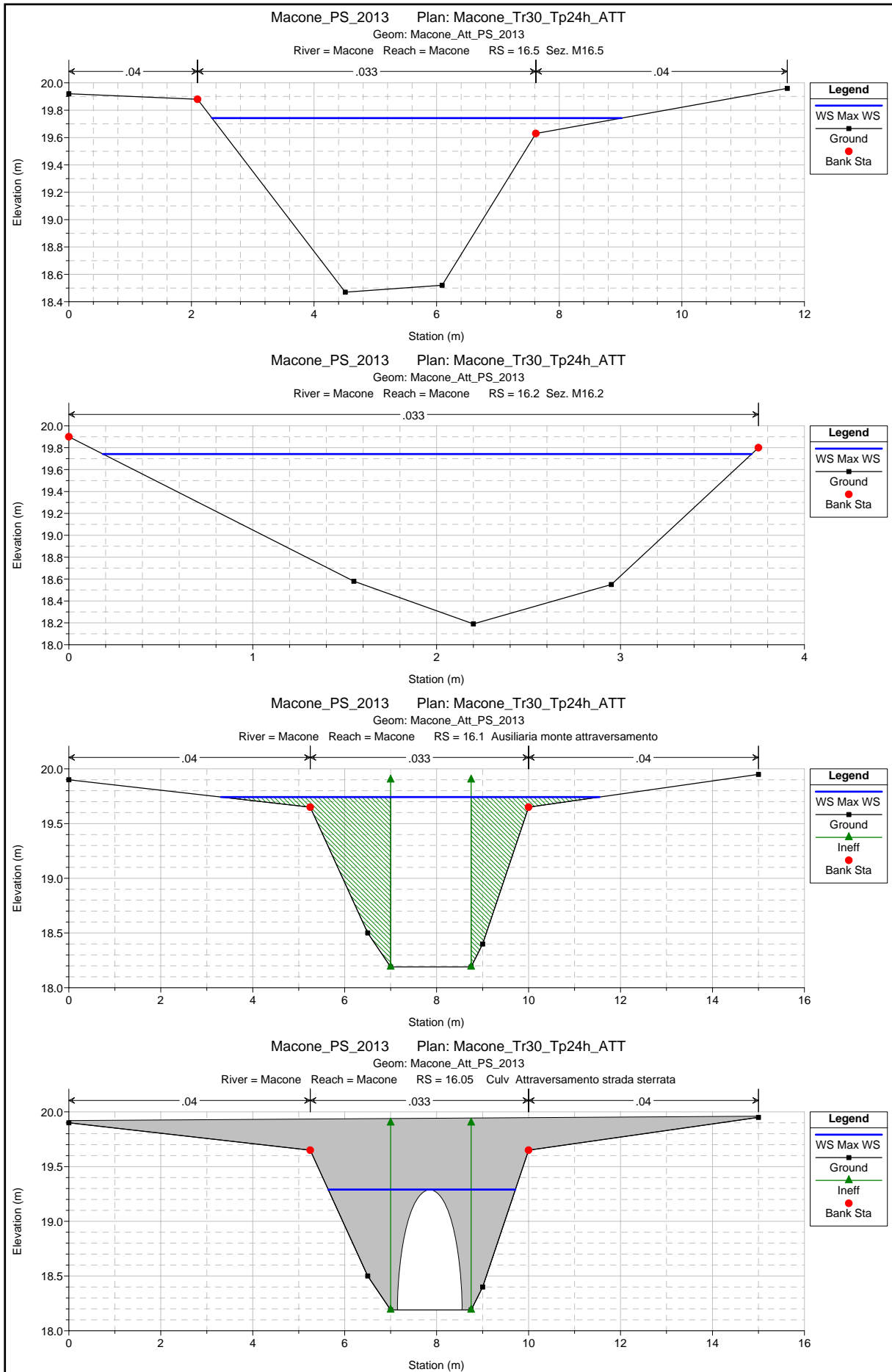


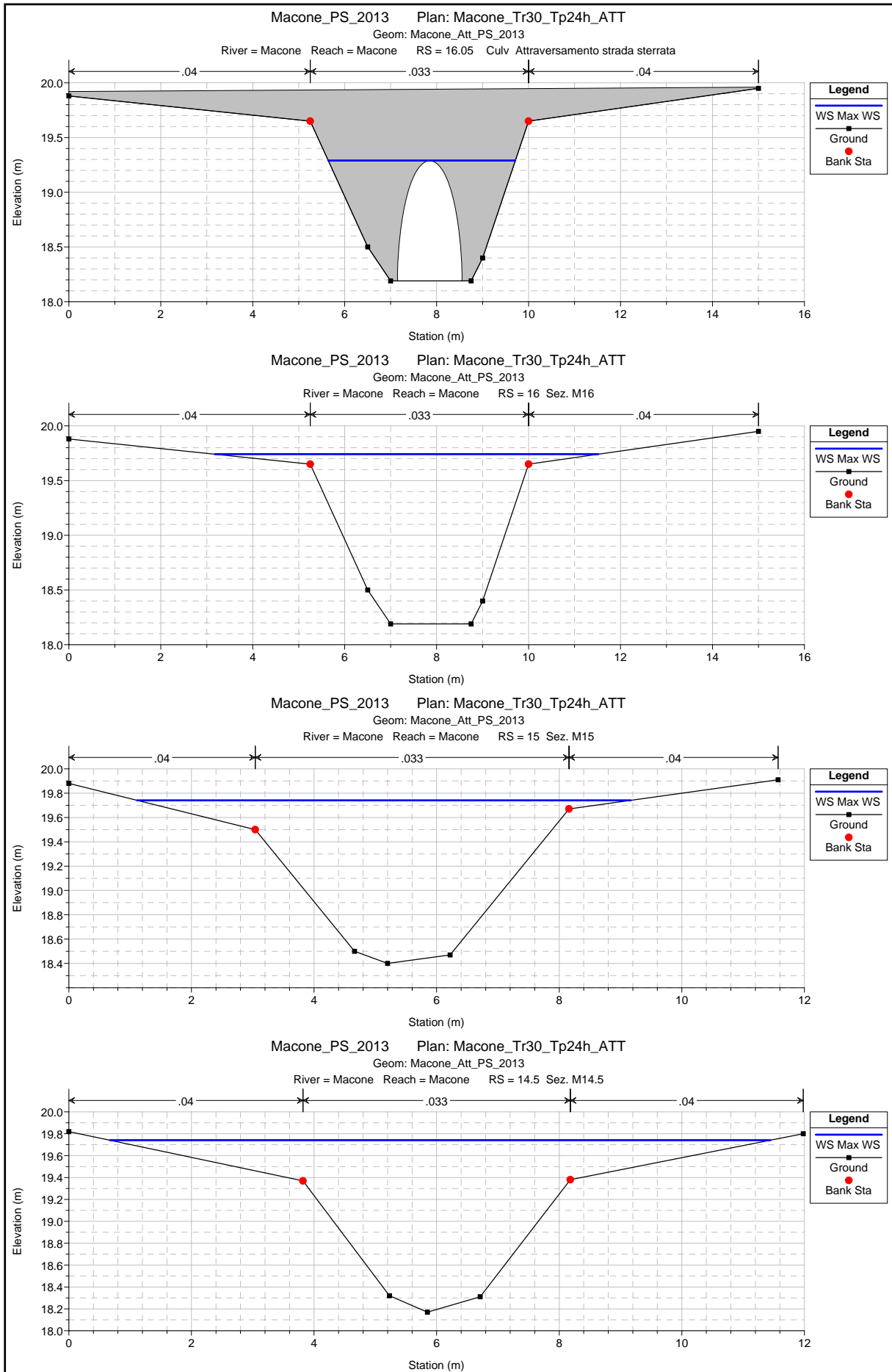




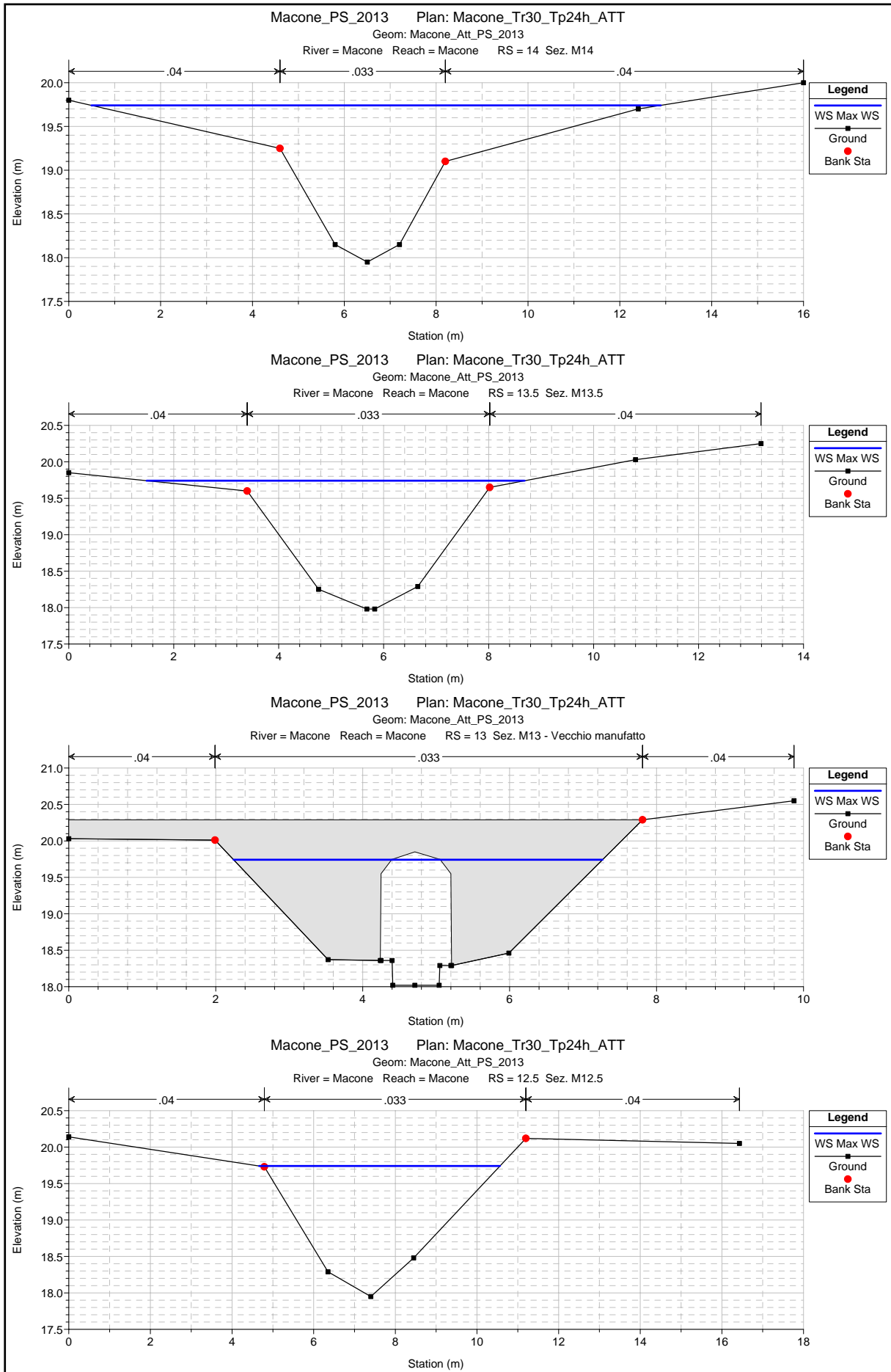


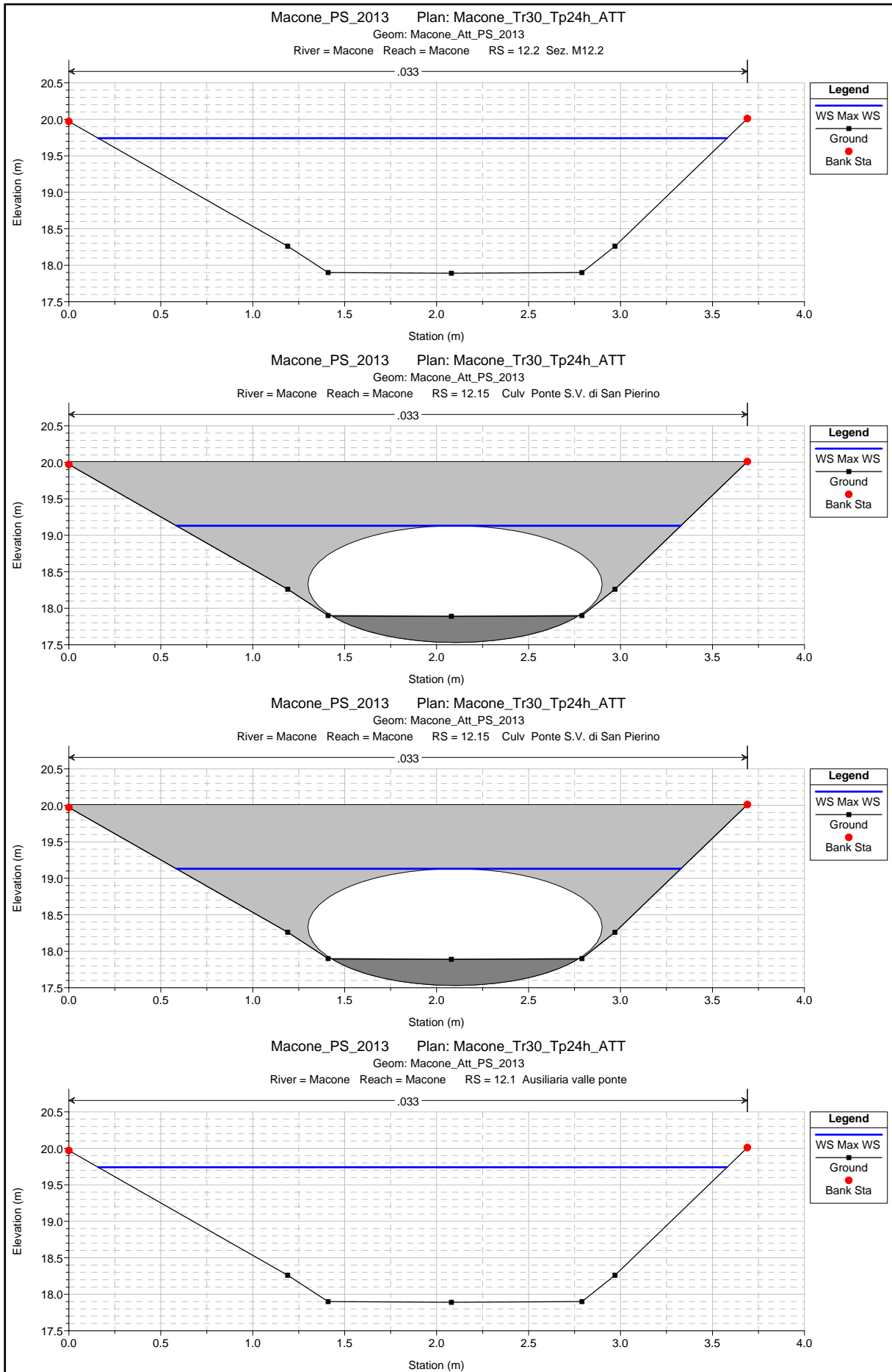


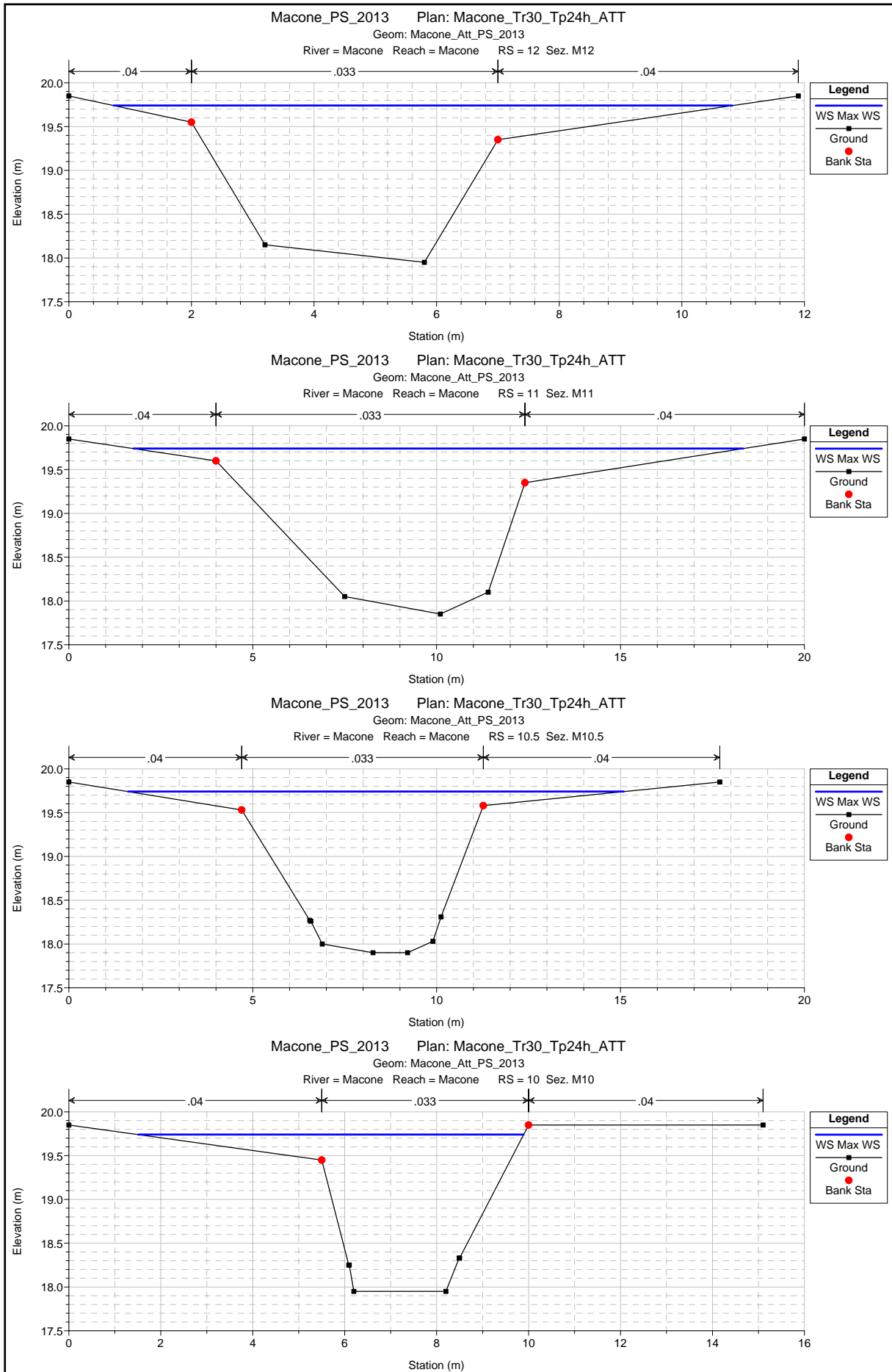


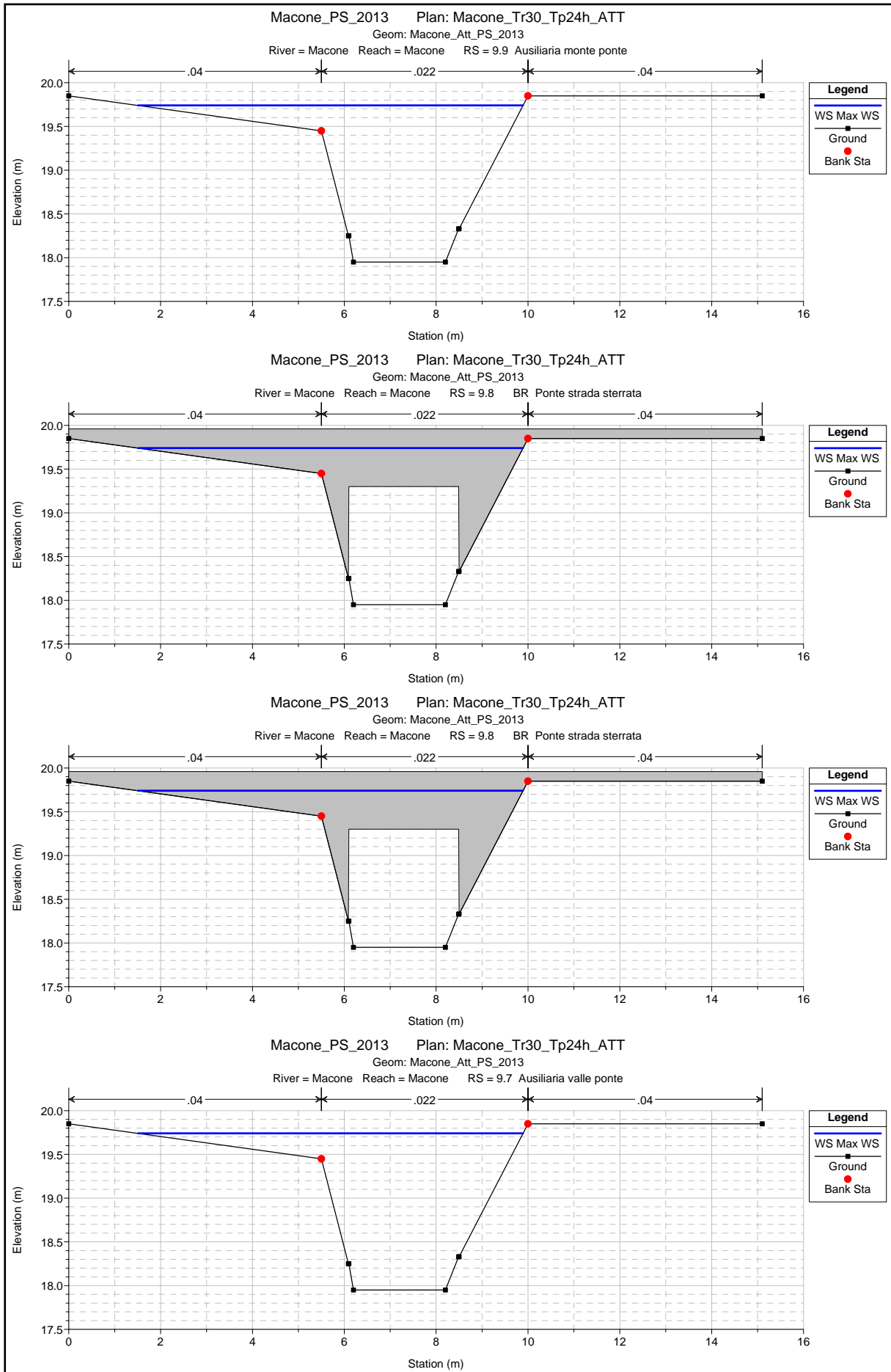


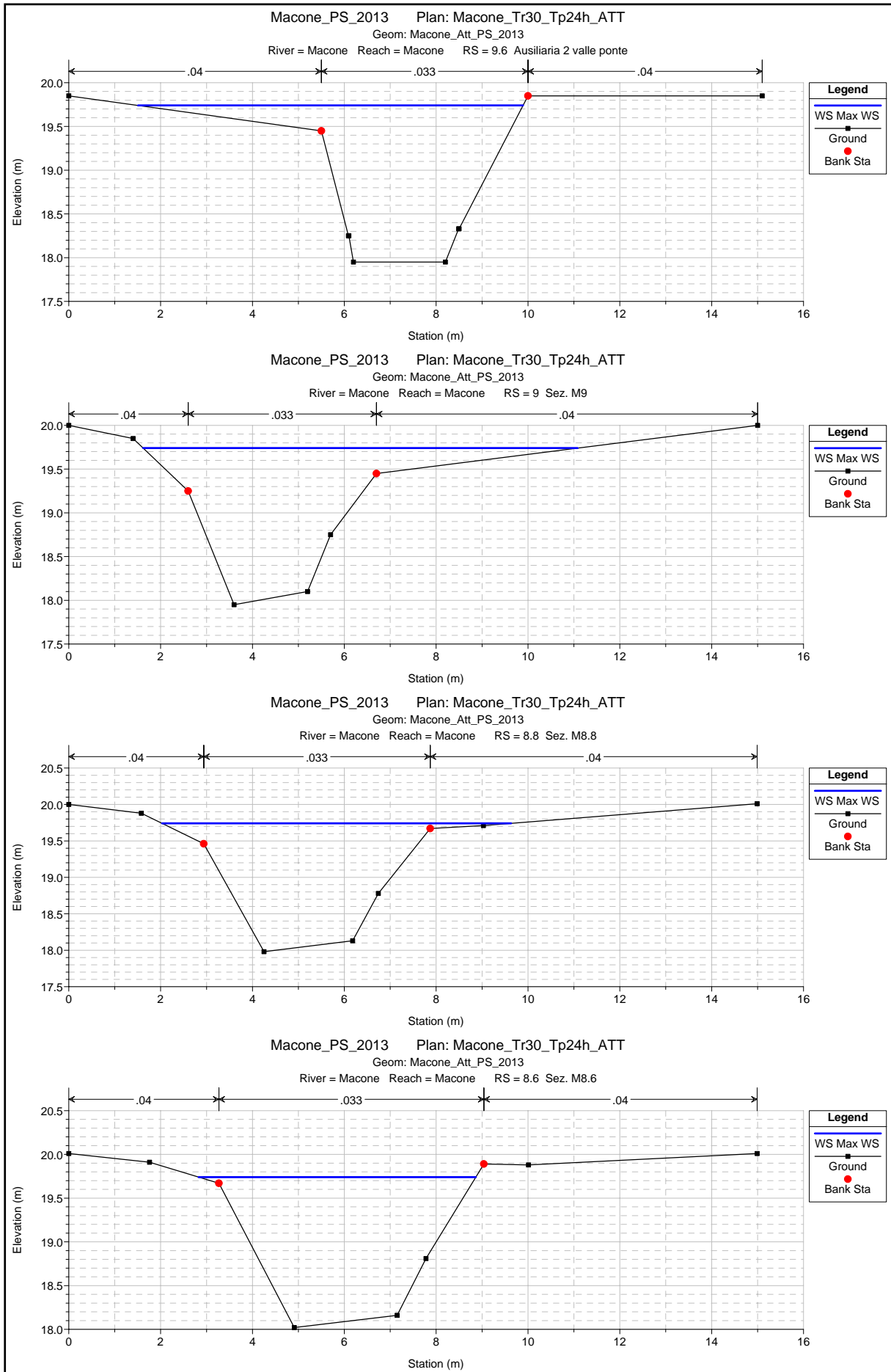


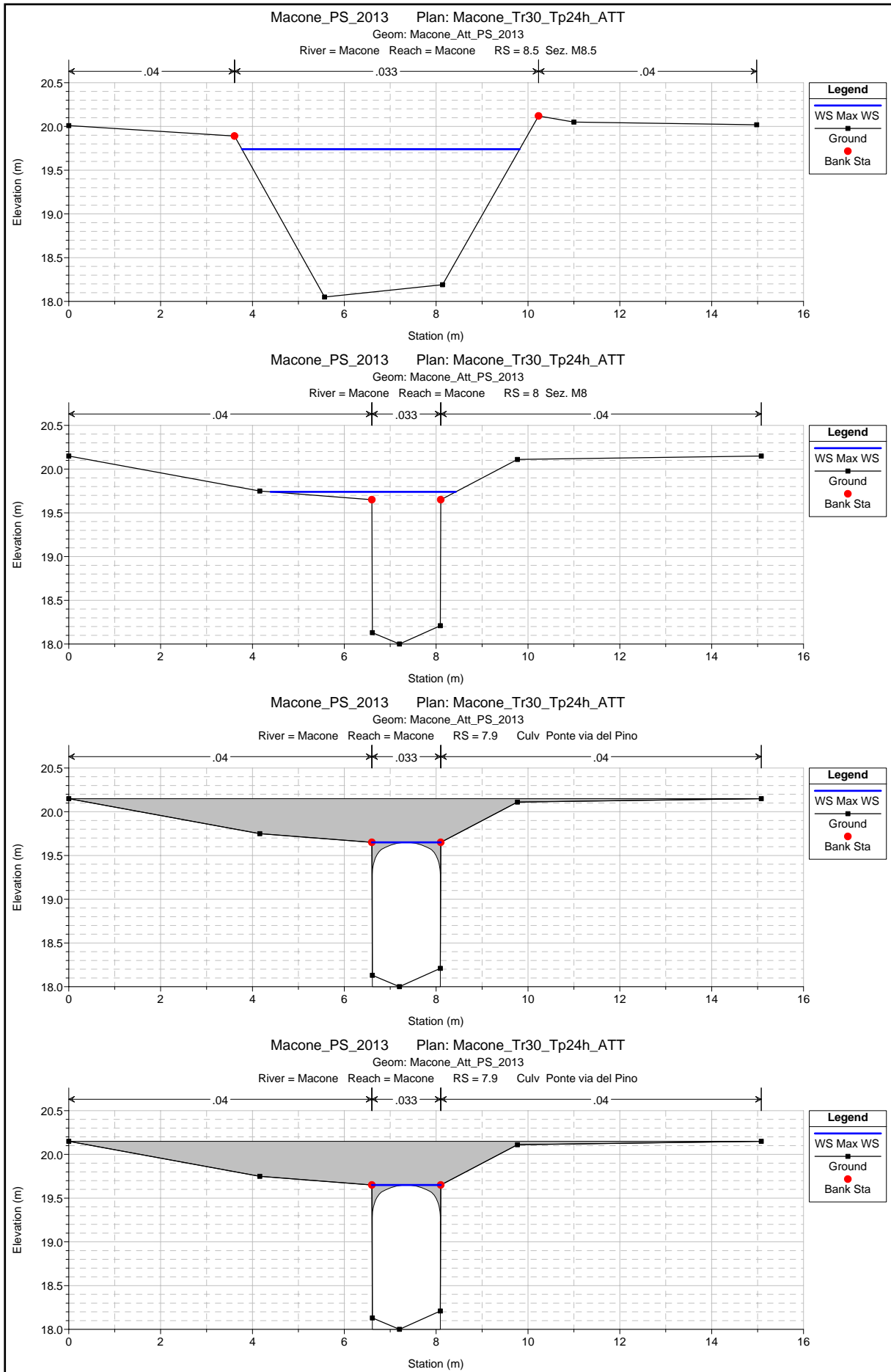


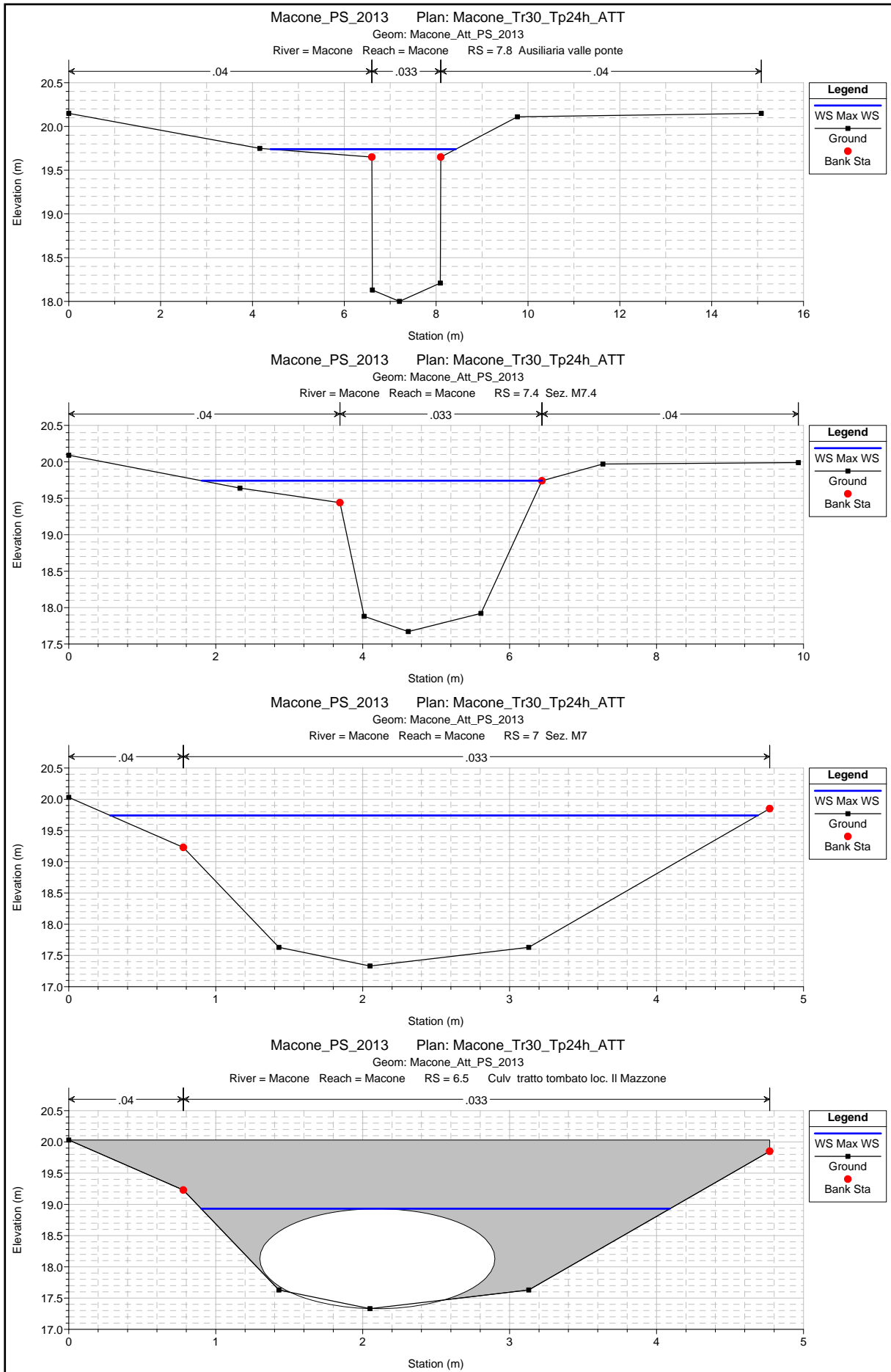


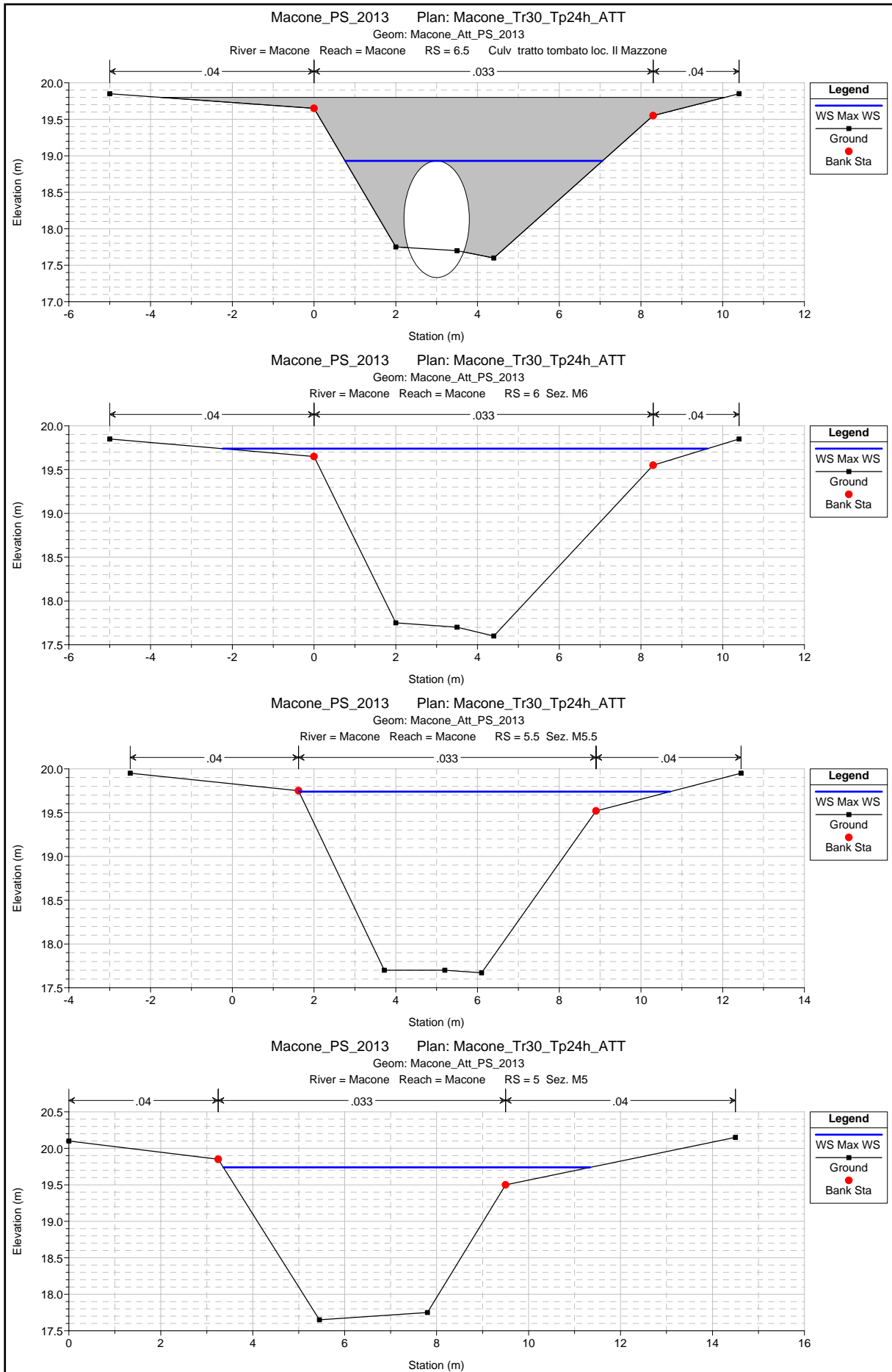




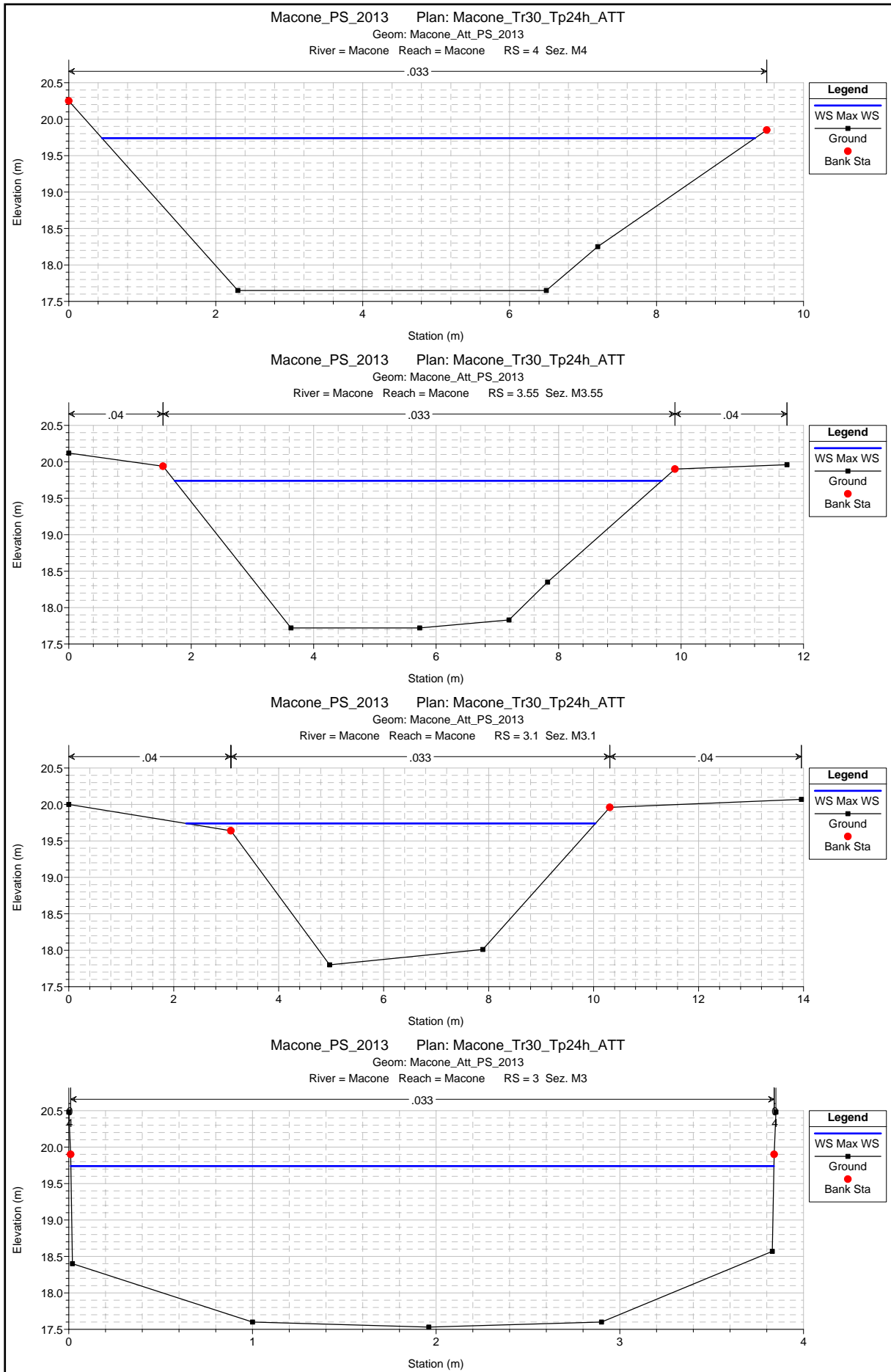


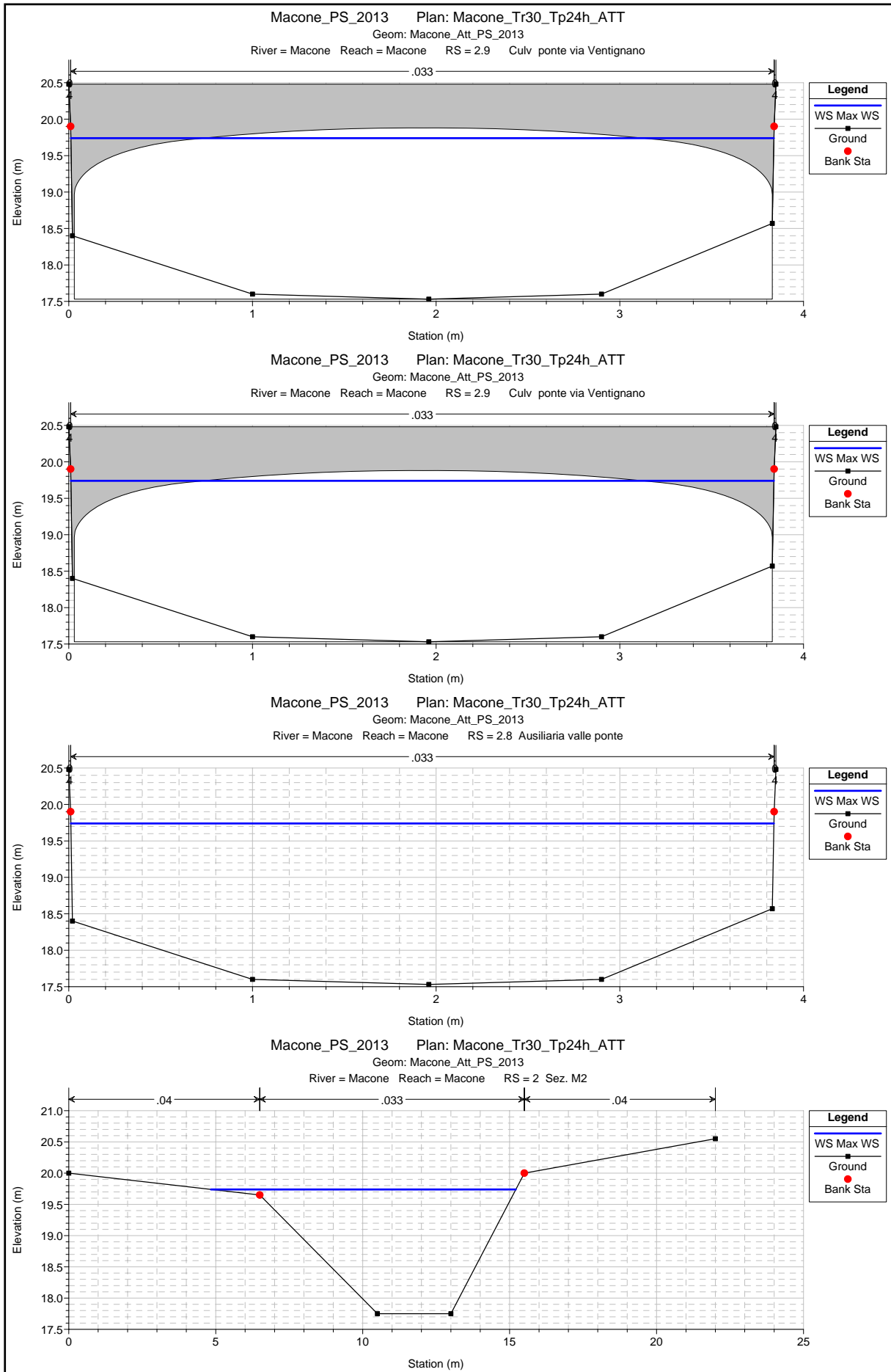


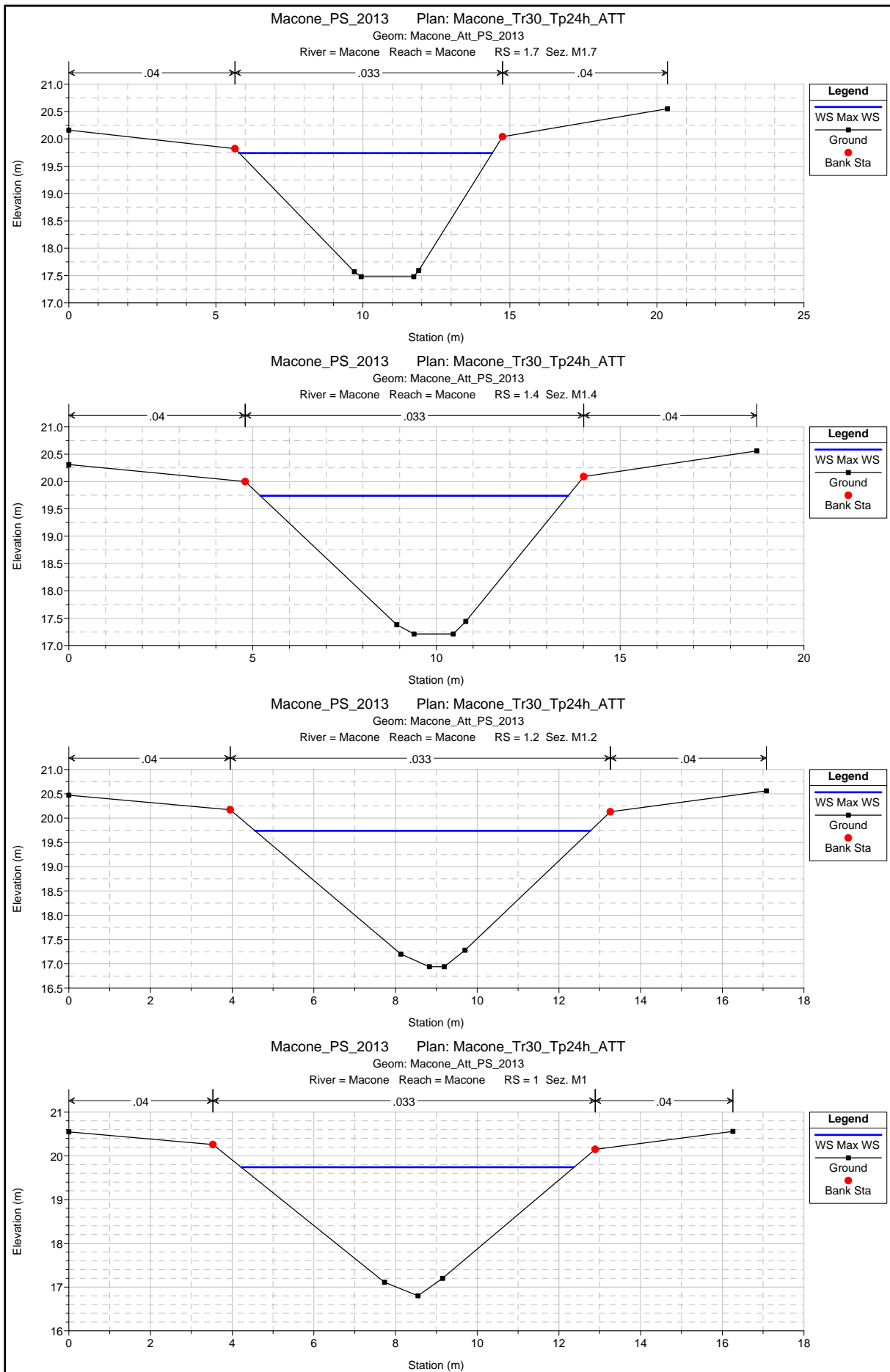


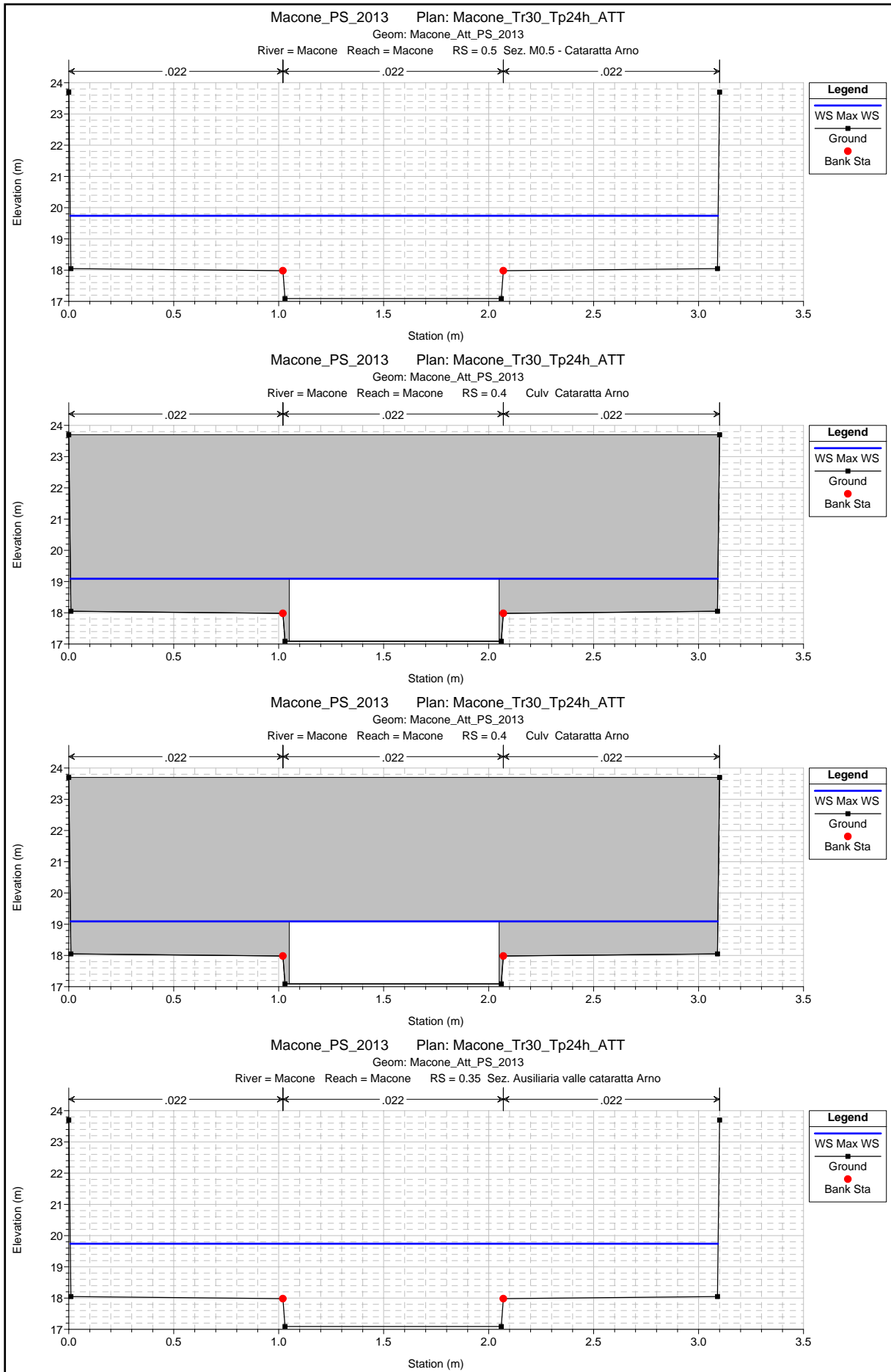


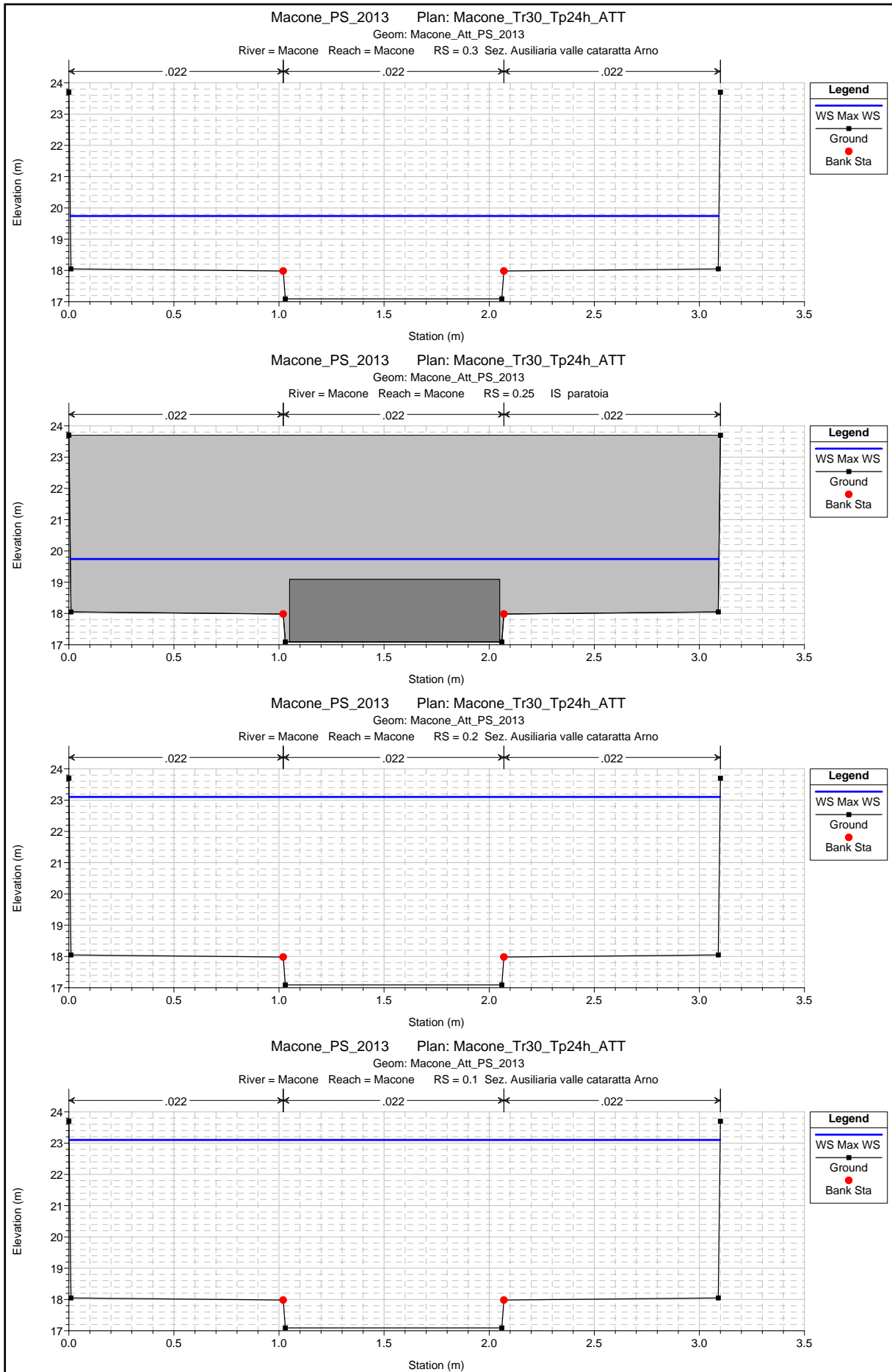












HEC-RAS Plan: Tr30\_Tp24h\_ATT River: Macone Reach: Macone Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Macone	30	Max WS	0.52	19.12	19.82		19.82	0.000257	0.29	1.80	3.20	0.12
Macone	29.9	Max WS	0.52	19.12	19.82		19.82	0.000259	0.29	1.79	3.20	0.12
Macone	29.88		Lat Struct									
Macone	29	Max WS	0.52	19.01	19.79		19.79	0.000087	0.19	2.77	4.64	0.08
Macone	28	Max WS	0.52	19.00	19.78		19.79	0.000161	0.33	1.55	1.99	0.12
Macone	27.5		Culvert									
Macone	27	Max WS	0.52	19.00	19.77		19.78	0.000166	0.34	1.53	1.99	0.12
Macone	26.75	Max WS	0.51	18.77	19.77		19.77	0.000055	0.22	2.31	2.32	0.07
Macone	26.5	Max WS	0.51	18.54	19.76		19.76	0.000022	0.16	3.24	2.66	0.05
Macone	26.2		Culvert									
Macone	26	Max WS	0.51	18.54	19.76		19.76	0.000022	0.16	3.23	2.66	0.05
Macone	25.99		Lat Struct									
Macone	25.98		Lat Struct									
Macone	25.8	Max WS	0.51	18.54	19.76		19.76	0.000022	0.16	3.23	2.66	0.05
Macone	25.6	Max WS	0.51	18.53	19.76		19.76	0.000039	0.15	3.49	3.01	0.04
Macone	24.9	Max WS	0.51	18.45	19.76		19.76	0.000023	0.12	4.25	4.53	0.04
Macone	24.89	Max WS	0.51	18.45	19.76		19.76	0.000004	0.08	6.07	5.28	0.03
Macone	24.88		Culvert									
Macone	24.85	Max WS	0.51	18.45	19.76		19.76	0.000004	0.08	6.07	5.28	0.03
Macone	24.8	Max WS	0.51	18.40	19.76		19.76	0.000007	0.10	5.07	4.44	0.03
Macone	24.7		Culvert									
Macone	24.6	Max WS	0.51	18.40	19.76		19.76	0.000007	0.10	5.06	4.44	0.03
Macone	24.55	Max WS	0.51	18.42	19.76		19.76	0.000016	0.10	4.90	4.39	0.03
Macone	24.54		Lat Struct									
Macone	24.53		Lat Struct									
Macone	23.6	Max WS	0.51	18.86	19.75		19.75	0.000168	0.25	2.02	3.15	0.10
Macone	23.5	Max WS	0.51	18.27	19.75		19.75	0.000005	0.09	5.43	4.30	0.03
Macone	23.4		Culvert									
Macone	23.3	Max WS	0.51	18.27	19.75		19.75	0.000005	0.09	5.42	4.30	0.03
Macone	23.29		Lat Struct									
Macone	23.28		Lat Struct									
Macone	23.25	Max WS	0.51	18.79	19.75		19.75	0.000127	0.22	2.33	4.05	0.09
Macone	23.2	Max WS	0.10	18.77	19.74		19.74	0.000004	0.04	2.41	4.11	0.02
Macone	23.1	Max WS	0.10	18.60	19.74		19.74	0.000002	0.03	3.57	5.02	0.01
Macone	22	Max WS	0.10	18.55	19.74		19.74	0.000001	0.02	4.32	6.02	0.01

HEC-RAS Plan: Tr30\_Tp24h\_ATT River: Macone Reach: Macone Profile: Max WS (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Macone	21	Max WS	0.10	18.45	19.74		19.74	0.000001	0.02	4.37	4.34	0.01
Macone	20.8	Max WS	0.10	18.45	19.74	18.50	19.74	0.000000	0.02	4.37	4.34	0.01
Macone	20.7		Bridge									
Macone	20.5	Max WS	0.10	18.45	19.74		19.74	0.000000	0.02	4.37	4.34	0.01
Macone	20.3	Max WS	0.10	18.46	19.74		19.74	0.000001	0.02	4.31	4.31	0.01
Macone	20.29		Lat Struct									
Macone	20.28		Lat Struct									
Macone	20	Max WS	0.10	18.50	19.74		19.74	0.000001	0.02	4.14	4.25	0.01
Macone	19.5	Max WS	0.10	18.51	19.74		19.74	0.000001	0.02	4.27	6.56	0.01
Macone	19.2	Max WS	0.10	18.55	19.74	18.66	19.74	0.000001	0.03	3.08	4.12	0.01
Macone	19.1		Bridge									
Macone	19.05	Max WS	0.10	18.55	19.74		19.74	0.000001	0.03	3.07	4.12	0.01
Macone	19	Max WS	0.10	18.55	19.74		19.74	0.000002	0.03	3.07	4.12	0.01
Macone	18.99		Lat Struct									
Macone	18.98		Lat Struct									
Macone	18	Max WS	0.03	18.45	19.74		19.74	0.000000	0.01	6.18	11.17	0.00
Macone	17	Max WS	0.02	18.45	19.74		19.74	0.000000	0.00	5.55	6.55	0.00
Macone	16.99		Lat Struct									
Macone	16.5	Max WS	0.02	18.47	19.74		19.74	0.000000	0.00	4.45	6.68	0.00
Macone	16.2	Max WS	0.02	18.19	19.74		19.74	0.000000	0.01	3.16	3.53	0.00
Macone	16.1	Max WS	0.02	18.19	19.74		19.74	0.000000	0.01	2.72	8.23	0.00
Macone	16.05		Culvert									
Macone	16	Max WS	0.02	18.19	19.74		19.74	0.000000	0.00	5.49	8.34	0.00
Macone	15	Max WS	0.02	18.40	19.74		19.74	0.000000	0.00	4.80	8.06	0.00
Macone	14.99		Lat Struct									
Macone	14.98		Lat Struct									
Macone	14.5	Max WS	0.02	18.17	19.74		19.74	0.000000	0.00	5.97	10.77	0.00
Macone	14	Max WS	0.01	17.95	19.74		19.74	0.000000	0.00	7.18	12.40	0.00
Macone	13.5	Max WS	0.01	17.98	19.74		19.74	0.000000	0.00	5.41	7.20	0.00
Macone	13	Max WS	0.01	18.02	19.74	18.05	19.74	0.000000	0.01	1.52	0.66	0.00
Macone	12.5	Max WS	0.01	17.95	19.74		19.74	0.000000	0.00	5.78	5.90	0.00
Macone	12.2	Max WS	0.01	17.89	19.74		19.74	0.000000	0.00	4.43	3.42	0.00
Macone	12.15		Culvert									
Macone	12.1	Max WS	0.01	17.89	19.74		19.74	0.000000	0.00	4.42	3.42	0.00
Macone	12	Max WS	0.01	17.95	19.74		19.74	0.000000	0.00	7.64	10.09	0.00

HEC-RAS Plan: Tr30\_Tp24h\_ATT River: Macone Reach: Macone Profile: Max WS (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Macone	11.99		Lat Struct									
Macone	11.98		Lat Struct									
Macone	11	Max WS	0.01	17.85	19.74		19.74	0.000000	0.00	12.49	16.58	0.00
Macone	10.5	Max WS	0.01	17.90	19.74		19.74	0.000000	0.00	9.41	13.48	0.00
Macone	10	Max WS	0.01	17.95	19.74		19.74	0.000000	0.00	6.32	8.38	0.00
Macone	9.9	Max WS	0.01	17.95	19.74	17.97	19.74	0.000000	0.00	6.32	8.38	0.00
Macone	9.8		Bridge									
Macone	9.7	Max WS	0.01	17.95	19.74		19.74	0.000000	0.00	6.32	8.38	0.00
Macone	9.6	Max WS	0.01	17.95	19.74		19.74	0.000000	0.00	6.32	8.38	0.00
Macone	9.59		Lat Struct									
Macone	9.58		Lat Struct									
Macone	9	Max WS	0.01	17.95	19.74		19.74	0.000000	0.00	6.06	9.46	0.00
Macone	8.8	Max WS	0.01	17.98	19.74		19.74	0.000000	0.00	6.09	7.60	0.00
Macone	8.6	Max WS	0.01	18.02	19.74		19.74	0.000000	0.00	6.48	6.04	0.00
Macone	8.5	Max WS	0.01	18.05	19.74		19.74	0.000000	0.00	6.99	6.05	0.00
Macone	8	Max WS	0.01	18.00	19.74		19.74	0.000000	0.00	2.57	4.03	0.00
Macone	7.9		Culvert									
Macone	7.8	Max WS	0.01	18.00	19.74		19.74	0.000000	0.00	2.57	4.03	0.00
Macone	7.79		Lat Struct									
Macone	7.78		Lat Struct									
Macone	7.4	Max WS	0.01	17.67	19.74		19.74	0.000000	0.00	4.52	4.63	0.00
Macone	7	Max WS	0.01	17.33	19.74		19.74	0.000000	0.00	6.47	4.41	0.00
Macone	6.5		Culvert									
Macone	6	Max WS	0.01	17.60	19.74		19.74	0.000000	0.00	11.75	11.86	0.00
Macone	5.99		Lat Struct									
Macone	5.98		Lat Struct									
Macone	5.5	Max WS	0.01	17.67	19.74		19.74	0.000000	0.00	10.40	9.08	0.00
Macone	5	Max WS	0.01	17.65	19.74		19.74	0.000000	0.00	9.09	7.98	0.00
Macone	4	Max WS	0.01	17.65	19.74		19.74	0.000000	0.00	13.55	8.89	0.00
Macone	3.55	Max WS	0.00	17.72	19.74		19.74	0.000000	0.00	11.36	7.96	0.00
Macone	3.1	Max WS	0.00	17.80	19.74		19.74	0.000000	0.00	9.17	7.80	0.00
Macone	3	Max WS	0.00	17.53	19.74		19.74	0.000000	0.00	7.39	3.83	0.00
Macone	2.9		Culvert									
Macone	2.8	Max WS	0.00	17.53	19.74		19.74	0.000000	0.00	7.39	3.83	0.00
Macone	2	Max WS	0.00	17.75	19.74		19.74	0.000000	0.00	11.40	10.37	0.00



HEC-RAS Plan: Tr30\_Tp24h\_ATT River: Macone Reach: Macone Profile: Max WS (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Macone	1.99		Lat Struct									
Macone	1.98		Lat Struct									
Macone	1.7	Max WS	0.00	17.48	19.74		19.74	0.000000	0.00	11.86	8.61	0.00
Macone	1.4	Max WS	0.00	17.21	19.74		19.74	0.000000	0.00	12.26	8.38	0.00
Macone	1.2	Max WS	0.00	16.94	19.74		19.74	0.000000	0.00	12.53	8.22	0.00
Macone	1	Max WS	0.00	16.80	19.74		19.74	0.000000	0.00	12.62	8.15	0.00
Macone	0.5	Max WS	0.00	17.09	19.74		19.74	0.000000	0.00	6.28	3.09	0.00
Macone	0.4		Culvert									
Macone	0.35	Max WS	0.00	17.09	19.74		19.74	0.000000	0.00	6.28	3.09	0.00
Macone	0.3	Max WS	0.00	17.09	19.74	17.10	19.74	0.000000	0.00	6.28	3.09	0.00
Macone	0.25		Inl Struct									
Macone	0.2	Max WS	0.00	17.09	23.10		23.10	0.000000	0.00	16.67	3.10	0.00
Macone	0.1	Max WS	0.00	17.09	23.10	17.10	23.10	0.000000	0.00	16.67	3.10	0.00

## **Scenario D**

- **Rio di Fucecchio (tratto a valle della sez. RF\_1150)**
- **Torrente Vincio**
- **Canale Usciana**
- **Rio Macone (solo Tr=30 anni)**

# **Scenario D**

**Tr 200, 100 e 30 anni**

## **RIO DI FUCECCHIO**

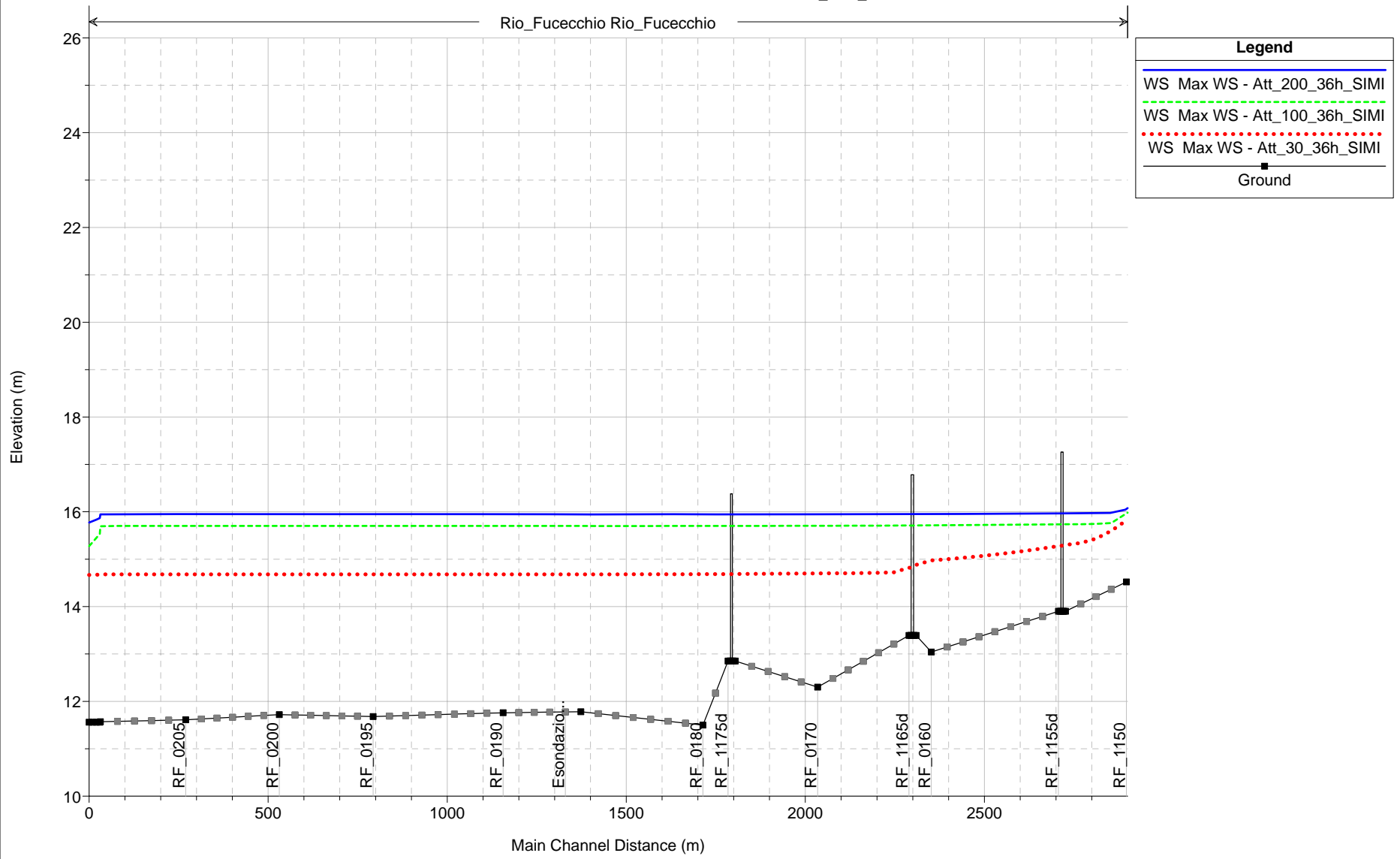
**Tratto a valle della sez. RF\_1150**

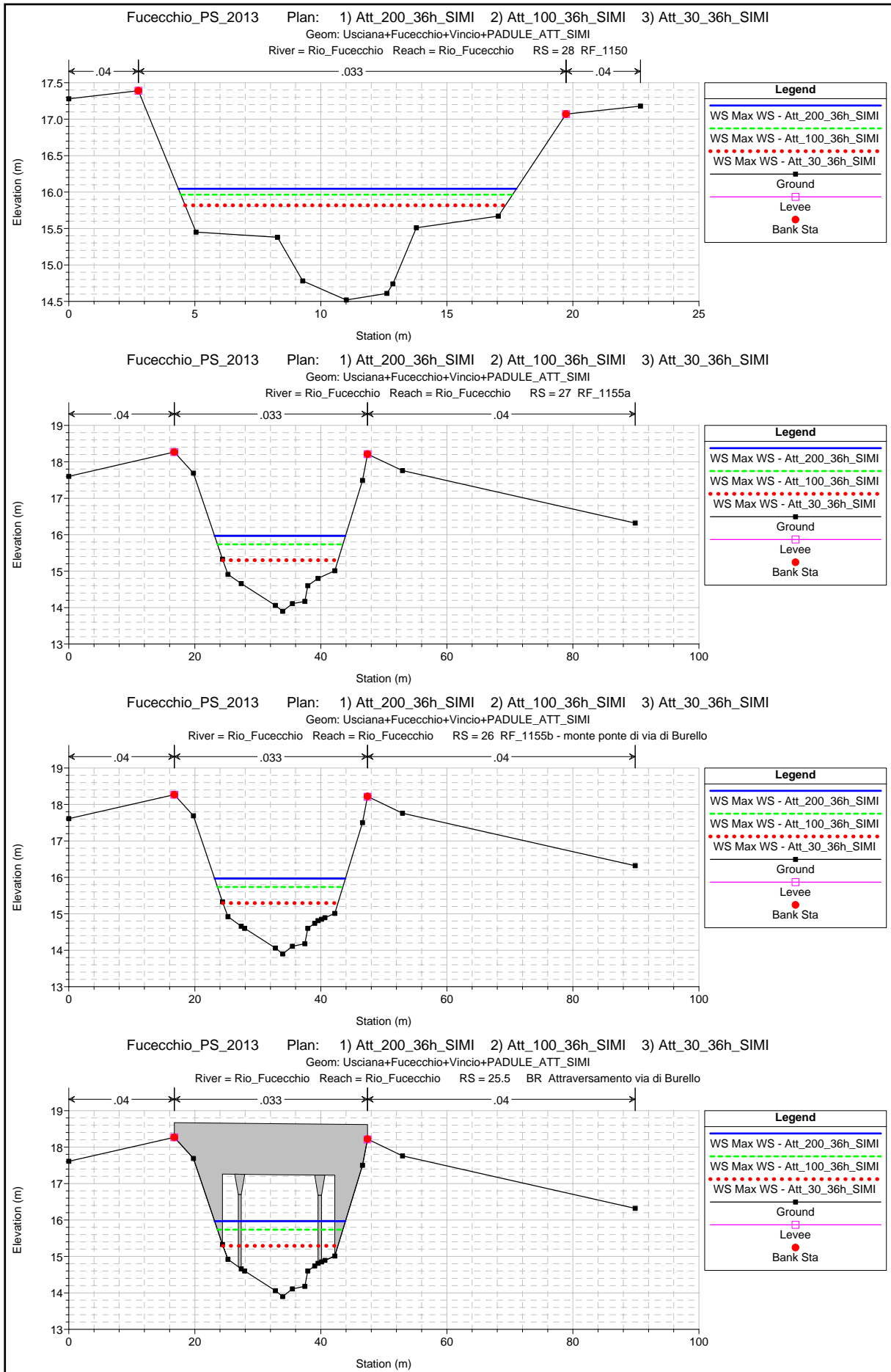
- **Profili**
- **Sezioni**
- **Tablelle di Output**

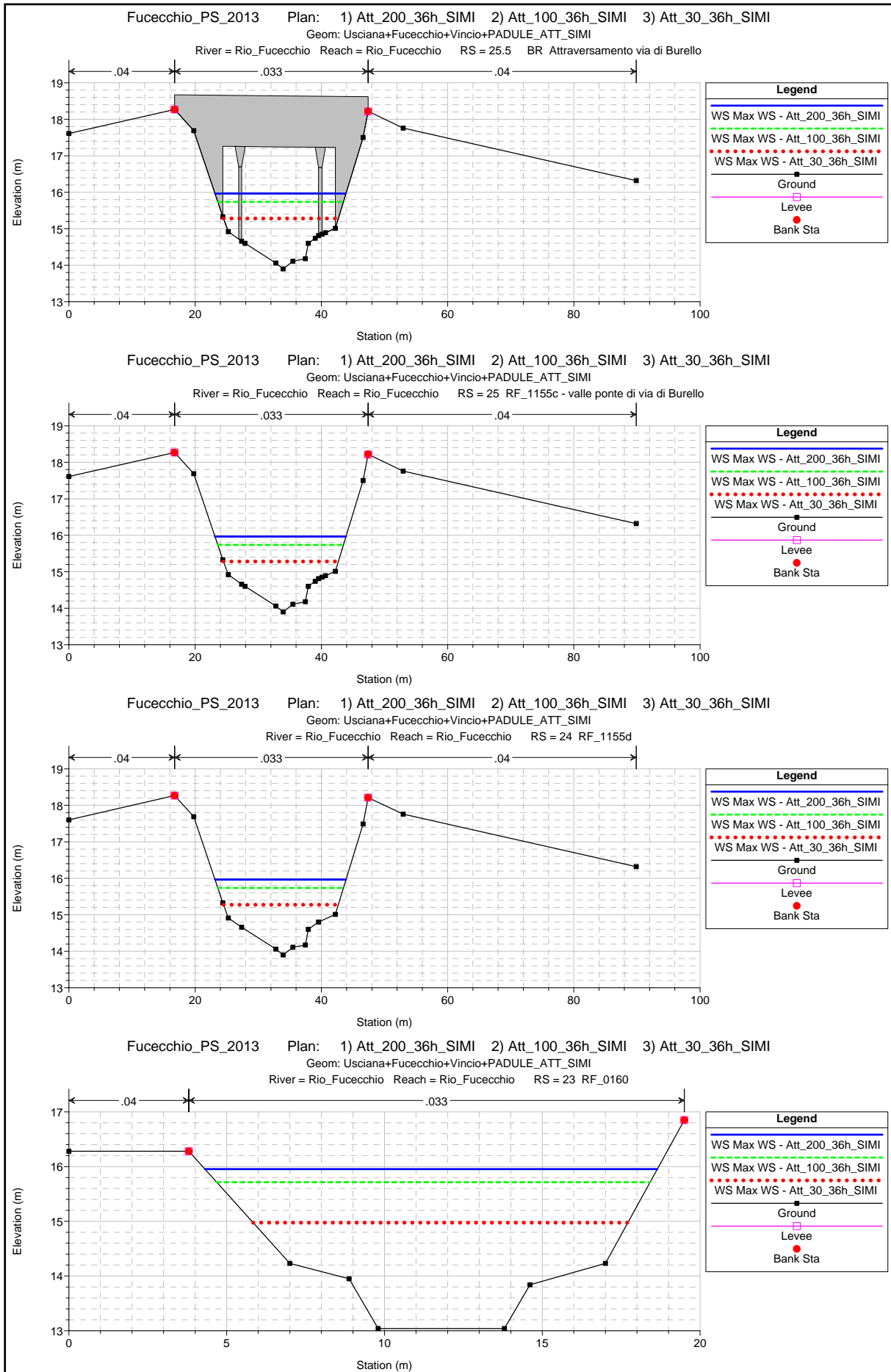
Fucecchio\_PS\_2013 Plan: 1) Att\_200\_36h\_SIMI 2) Att\_100\_36h\_SIMI 3) Att\_30\_36h\_SIMI

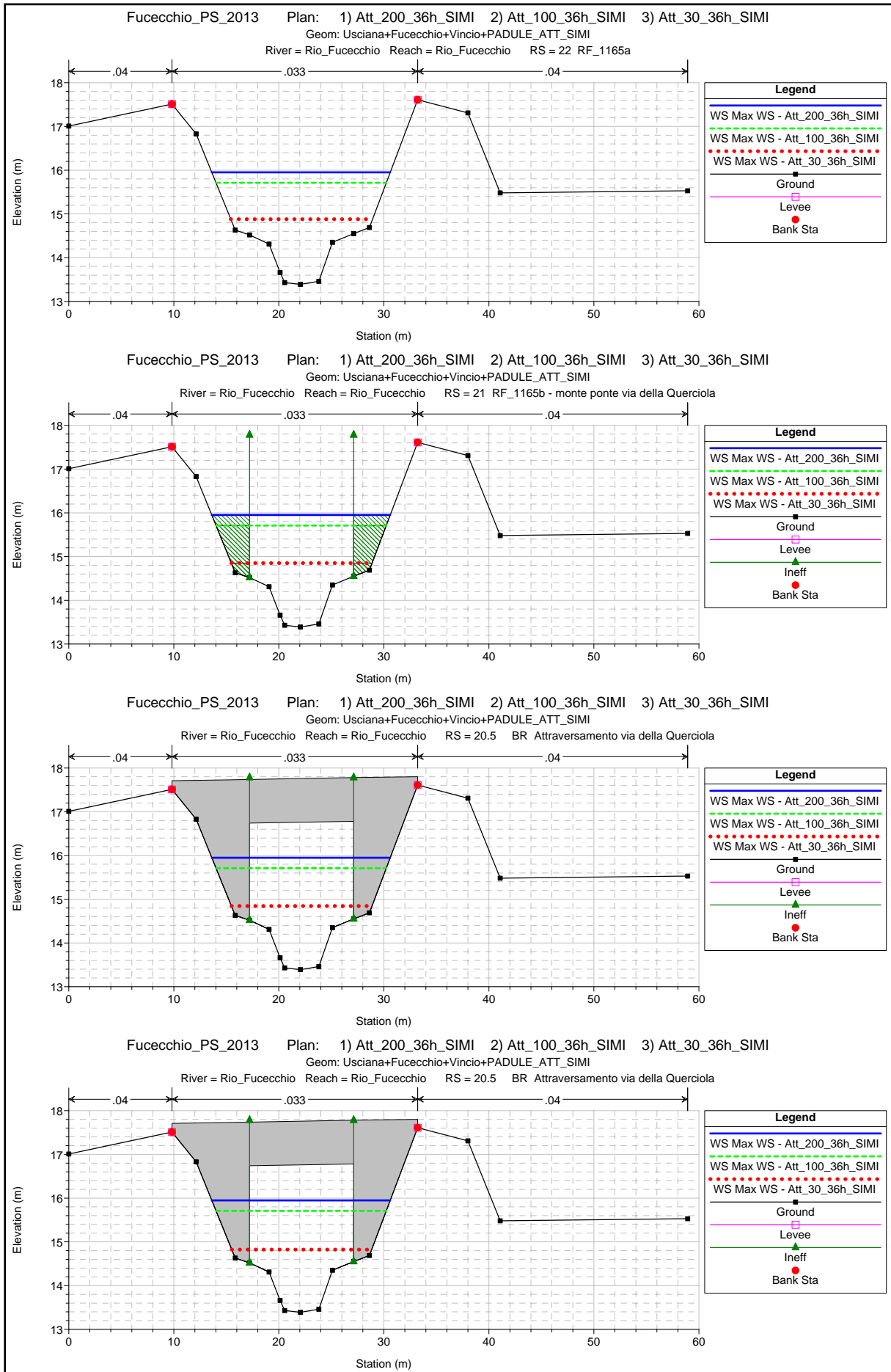
Geom: Usciana+Fucecchio+Vincio+PADULE\_ATT\_SIMI

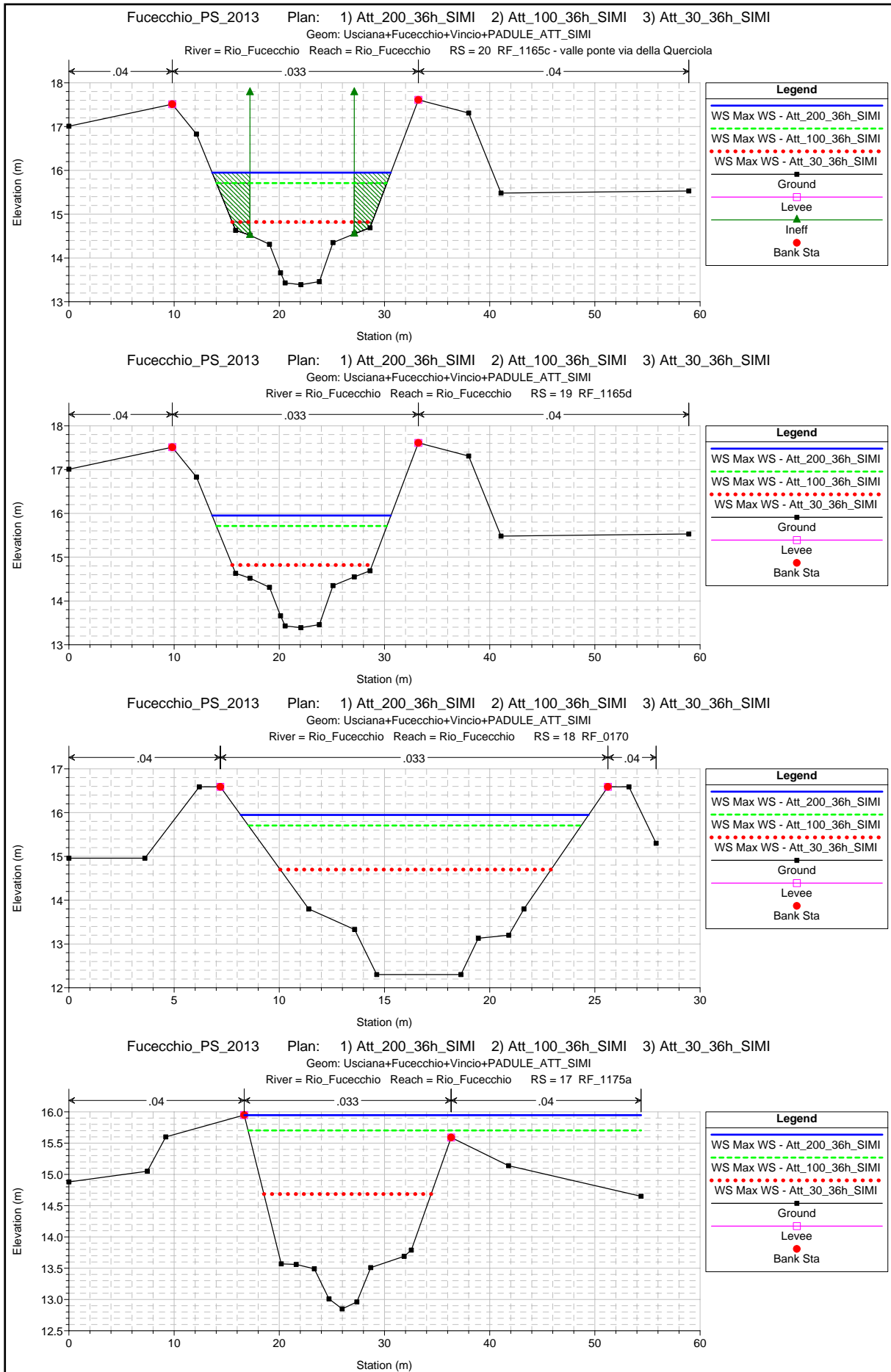
Rio\_Fucecchio Rio\_Fucecchio



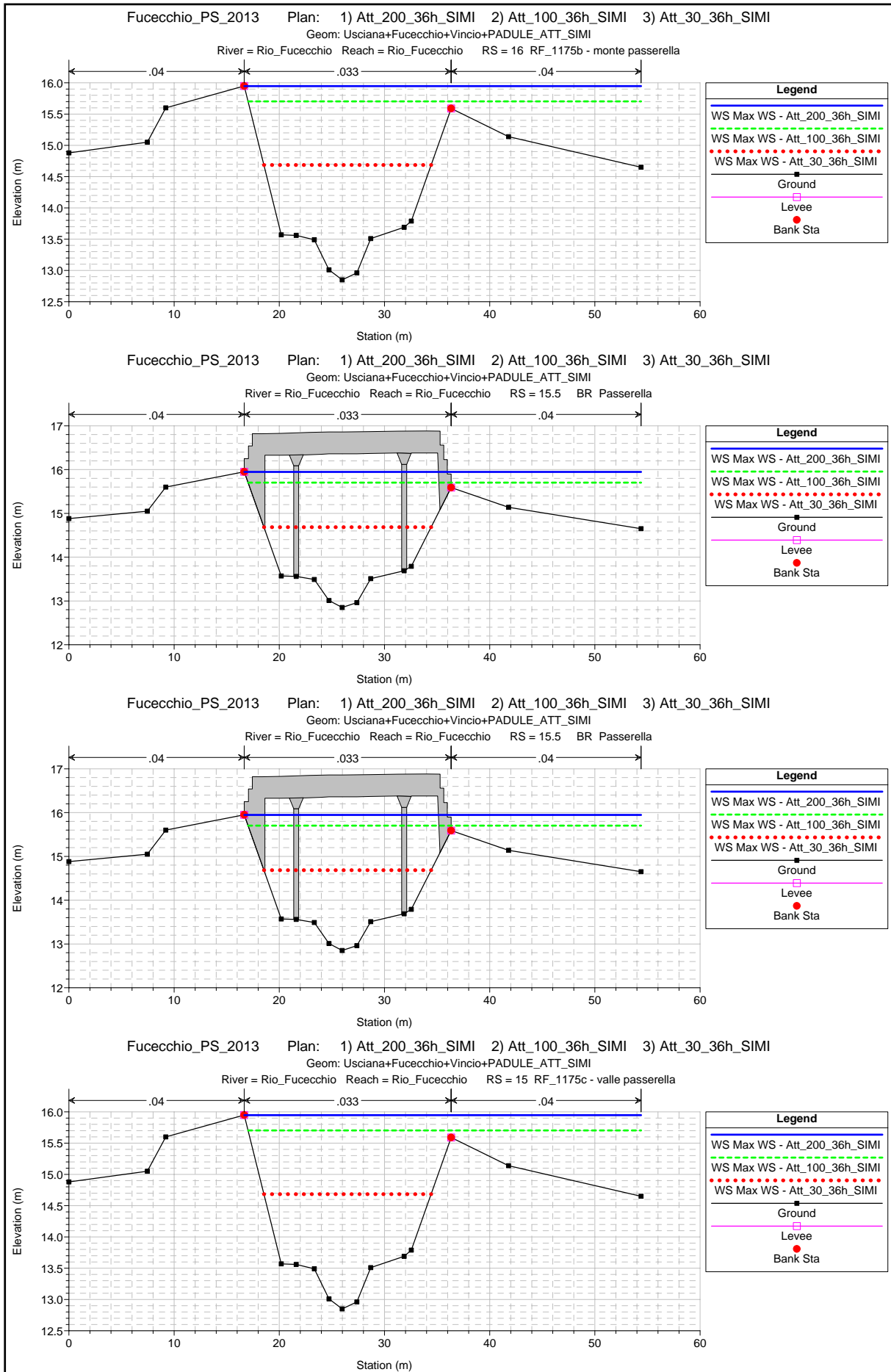


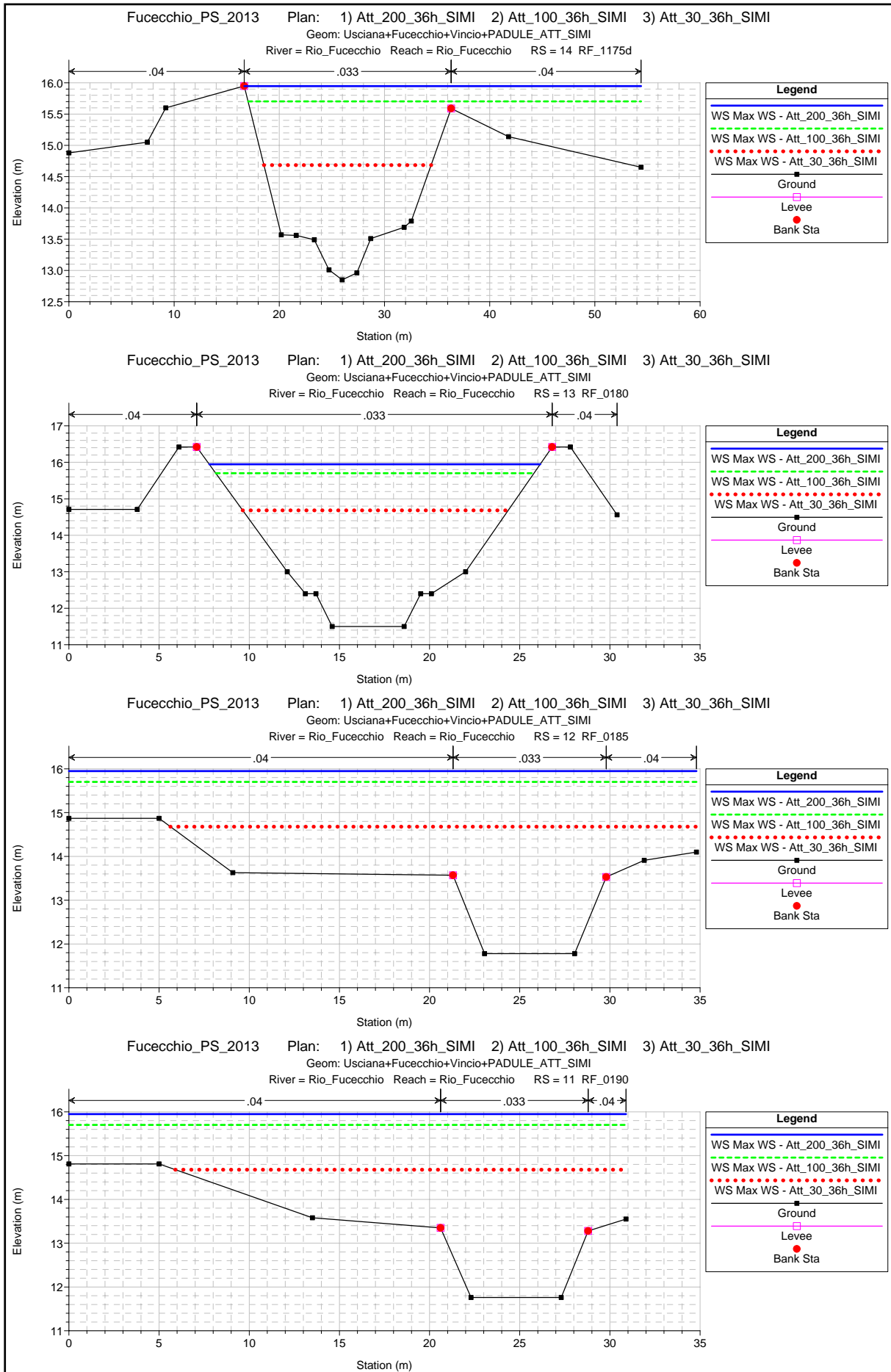


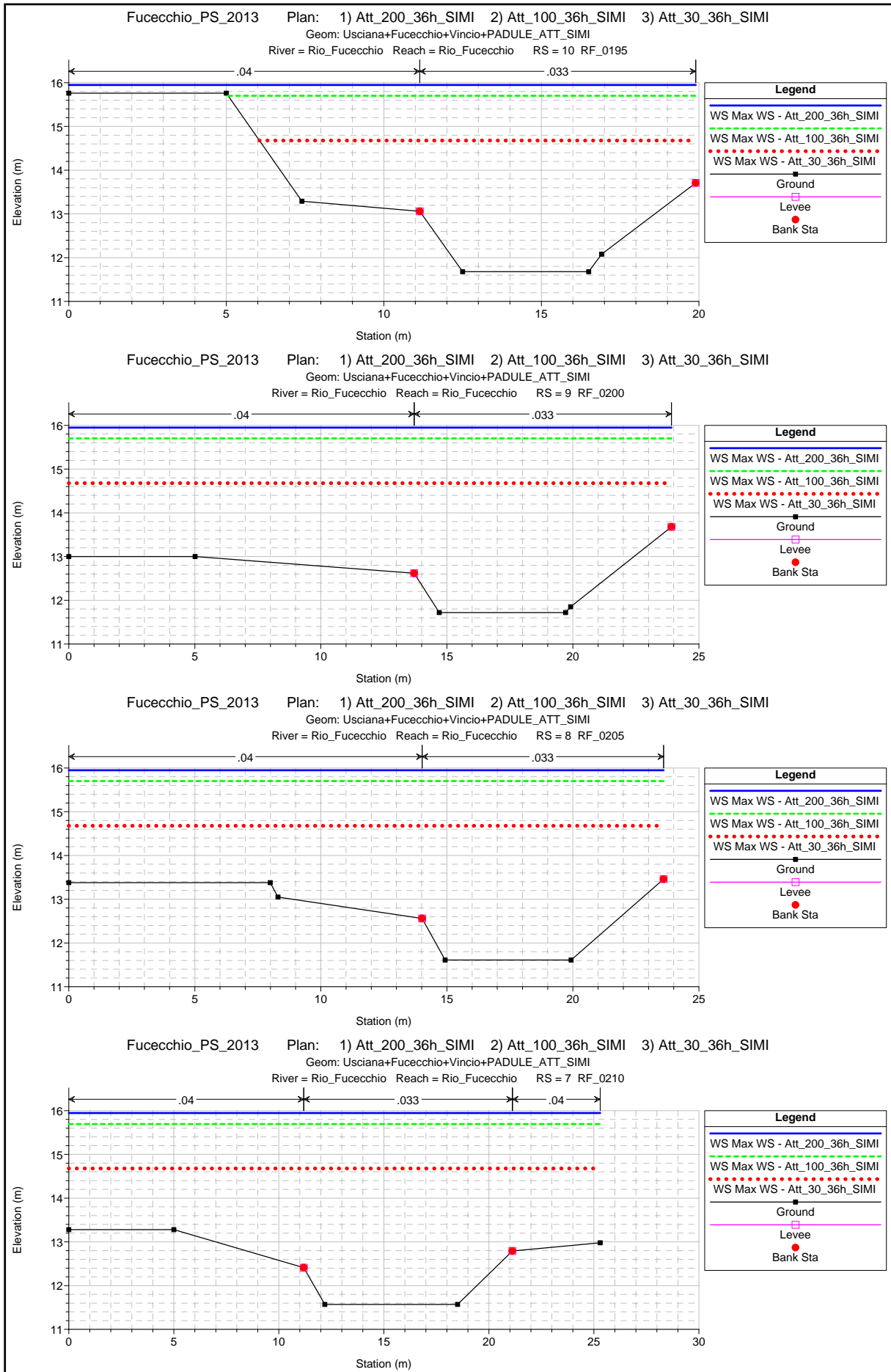


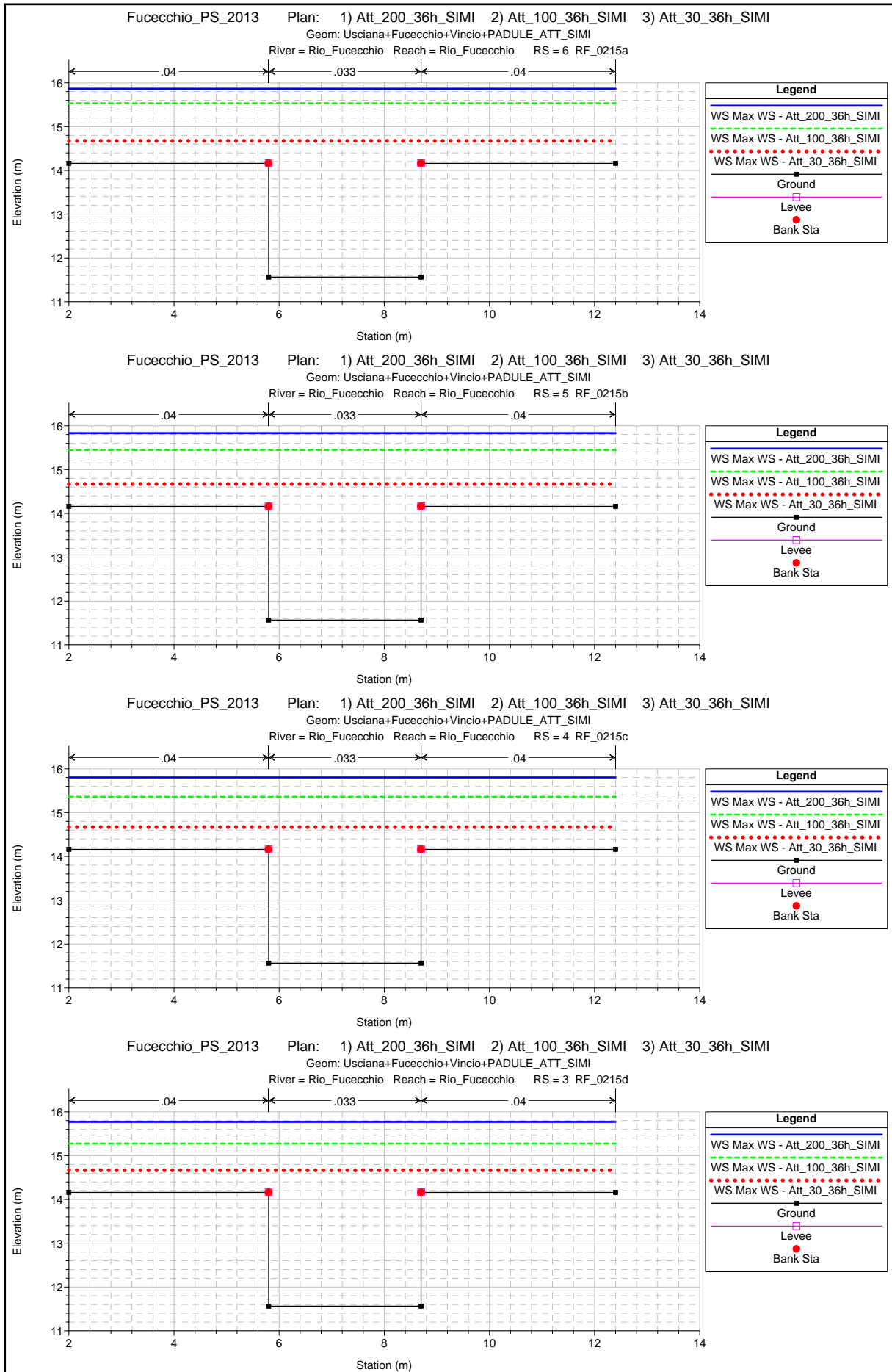












HEC-RAS Locations: User Defined Profile: Max WS

River	Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	Rio_Fucecchio	28	Max WS	Att_200_36h_SIMI	19.43	14.52	16.04		16.21	0.005088	1.80	10.80	13.41	0.64
Rio_Fucecchio	Rio_Fucecchio	28	Max WS	Att_100_36h_SIMI	16.81	14.52	15.97		16.12	0.005222	1.73	9.74	13.17	0.64
Rio_Fucecchio	Rio_Fucecchio	28	Max WS	Att_30_36h_SIMI	12.02	14.52	15.82		15.94	0.005213	1.53	7.84	12.71	0.62
Rio_Fucecchio	Rio_Fucecchio	27	Max WS	Att_200_36h_SIMI	6.43	13.90	15.97		15.97	0.000042	0.23	27.70	20.77	0.06
Rio_Fucecchio	Rio_Fucecchio	27	Max WS	Att_100_36h_SIMI	6.56	13.90	15.74		15.74	0.000076	0.28	23.02	19.91	0.08
Rio_Fucecchio	Rio_Fucecchio	27	Max WS	Att_30_36h_SIMI	12.02	13.90	15.30		15.33	0.001008	0.82	14.68	18.28	0.29
Rio_Fucecchio	Rio_Fucecchio	26	Max WS	Att_200_36h_SIMI	6.43	13.90	15.97	14.55	15.97	0.000042	0.23	27.65	20.76	0.06
Rio_Fucecchio	Rio_Fucecchio	26	Max WS	Att_100_36h_SIMI	6.56	13.90	15.74	14.55	15.74	0.000076	0.29	22.97	19.91	0.08
Rio_Fucecchio	Rio_Fucecchio	26	Max WS	Att_30_36h_SIMI	12.02	13.90	15.29	14.75	15.33	0.001041	0.83	14.53	18.25	0.30
Rio_Fucecchio	Rio_Fucecchio	25.5			Bridge									
Rio_Fucecchio	Rio_Fucecchio	25	Max WS	Att_200_36h_SIMI	6.43	13.90	15.97		15.97	0.000042	0.23	27.64	20.76	0.06
Rio_Fucecchio	Rio_Fucecchio	25	Max WS	Att_100_36h_SIMI	6.56	13.90	15.74		15.74	0.000077	0.29	22.94	19.90	0.08
Rio_Fucecchio	Rio_Fucecchio	25	Max WS	Att_30_36h_SIMI	12.02	13.90	15.28		15.32	0.001098	0.84	14.28	18.20	0.30
Rio_Fucecchio	Rio_Fucecchio	24.9			Lat Struct									
Rio_Fucecchio	Rio_Fucecchio	24.8			Lat Struct									
Rio_Fucecchio	Rio_Fucecchio	24	Max WS	Att_200_36h_SIMI	6.43	13.90	15.97		15.97	0.000042	0.23	27.68	20.76	0.06
Rio_Fucecchio	Rio_Fucecchio	24	Max WS	Att_100_36h_SIMI	6.56	13.90	15.73		15.74	0.000076	0.29	22.98	19.90	0.08
Rio_Fucecchio	Rio_Fucecchio	24	Max WS	Att_30_36h_SIMI	12.02	13.90	15.28		15.31	0.001111	0.84	14.23	18.18	0.30
Rio_Fucecchio	Rio_Fucecchio	23	Max WS	Att_200_36h_SIMI	6.42	13.04	15.95		15.96	0.000029	0.23	27.79	14.34	0.05
Rio_Fucecchio	Rio_Fucecchio	23	Max WS	Att_100_36h_SIMI	6.53	13.04	15.72		15.72	0.000043	0.27	24.44	13.74	0.06
Rio_Fucecchio	Rio_Fucecchio	23	Max WS	Att_30_36h_SIMI	11.77	13.04	14.97		15.01	0.000570	0.79	14.95	11.87	0.22
Rio_Fucecchio	Rio_Fucecchio	22	Max WS	Att_200_36h_SIMI	6.42	13.39	15.95		15.96	0.000039	0.24	26.50	16.99	0.06
Rio_Fucecchio	Rio_Fucecchio	22	Max WS	Att_100_36h_SIMI	6.52	13.39	15.71		15.72	0.000064	0.29	22.53	16.21	0.08
Rio_Fucecchio	Rio_Fucecchio	22	Max WS	Att_30_36h_SIMI	11.75	13.39	14.88		14.95	0.002267	1.16	10.16	13.49	0.43
Rio_Fucecchio	Rio_Fucecchio	21	Max WS	Att_200_36h_SIMI	6.42	13.39	15.95	14.08	15.96	0.000048	0.32	19.89	16.99	0.07
Rio_Fucecchio	Rio_Fucecchio	21	Max WS	Att_100_36h_SIMI	6.52	13.39	15.71	14.09	15.72	0.000076	0.37	17.50	16.20	0.09
Rio_Fucecchio	Rio_Fucecchio	21	Max WS	Att_30_36h_SIMI	11.74	13.39	14.85	14.40	14.94	0.002288	1.31	8.97	13.39	0.44
Rio_Fucecchio	Rio_Fucecchio	20.5			Bridge									
Rio_Fucecchio	Rio_Fucecchio	20	Max WS	Att_200_36h_SIMI	6.42	13.39	15.95		15.95	0.000048	0.32	19.88	16.98	0.07
Rio_Fucecchio	Rio_Fucecchio	20	Max WS	Att_100_36h_SIMI	6.52	13.39	15.71		15.72	0.000076	0.37	17.50	16.20	0.09
Rio_Fucecchio	Rio_Fucecchio	20	Max WS	Att_30_36h_SIMI	11.73	13.39	14.82		14.91	0.002554	1.35	8.68	13.29	0.46
Rio_Fucecchio	Rio_Fucecchio	19.9			Lat Struct									

HEC-RAS Locations: User Defined Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	Rio_Fucecchio	19.8			Lat Struct									
Rio_Fucecchio	Rio_Fucecchio	19	Max WS	Att_200_36h_SIMI	6.42	13.39	15.95		15.95	0.000039	0.24	26.49	16.99	0.06
Rio_Fucecchio	Rio_Fucecchio	19	Max WS	Att_100_36h_SIMI	6.52	13.39	15.71		15.72	0.000065	0.29	22.51	16.21	0.08
Rio_Fucecchio	Rio_Fucecchio	19	Max WS	Att_30_36h_SIMI	11.72	13.39	14.82		14.90	0.002919	1.25	9.35	13.29	0.48
Rio_Fucecchio	Rio_Fucecchio	18	Max WS	Att_200_36h_SIMI	6.42	12.30	15.95		15.95	0.000012	0.17	38.32	16.53	0.04
Rio_Fucecchio	Rio_Fucecchio	18	Max WS	Att_100_36h_SIMI	6.52	12.30	15.71		15.71	0.000017	0.19	34.41	15.82	0.04
Rio_Fucecchio	Rio_Fucecchio	18	Max WS	Att_30_36h_SIMI	4.92	12.30	14.70		14.70	0.000043	0.25	19.98	12.87	0.06
Rio_Fucecchio	Rio_Fucecchio	17	Max WS	Att_200_36h_SIMI	-1.18	12.85	15.95		15.95	0.000000	-0.02	57.25	37.72	0.01
Rio_Fucecchio	Rio_Fucecchio	17	Max WS	Att_100_36h_SIMI	6.09	12.85	15.70		15.70	0.000011	0.15	48.06	37.35	0.03
Rio_Fucecchio	Rio_Fucecchio	17	Max WS	Att_30_36h_SIMI	4.83	12.85	14.69		14.69	0.000070	0.27	18.05	15.90	0.08
Rio_Fucecchio	Rio_Fucecchio	16	Max WS	Att_200_36h_SIMI	-1.18	12.85	15.95		15.95	0.000000	-0.02	57.25	37.72	0.01
Rio_Fucecchio	Rio_Fucecchio	16	Max WS	Att_100_36h_SIMI	6.09	12.85	15.70	13.64	15.70	0.000011	0.15	48.06	37.35	0.03
Rio_Fucecchio	Rio_Fucecchio	16	Max WS	Att_30_36h_SIMI	4.83	12.85	14.69	13.58	14.69	0.000070	0.27	18.04	15.90	0.08
Rio_Fucecchio	Rio_Fucecchio	15.5			Bridge									
Rio_Fucecchio	Rio_Fucecchio	15	Max WS	Att_200_36h_SIMI	-1.18	12.85	15.95		15.95	0.000000	-0.02	57.25	37.72	0.01
Rio_Fucecchio	Rio_Fucecchio	15	Max WS	Att_100_36h_SIMI	6.08	12.85	15.70		15.70	0.000011	0.15	48.06	37.35	0.03
Rio_Fucecchio	Rio_Fucecchio	15	Max WS	Att_30_36h_SIMI	4.82	12.85	14.68		14.69	0.000070	0.27	18.03	15.89	0.08
Rio_Fucecchio	Rio_Fucecchio	14	Max WS	Att_200_36h_SIMI	-1.18	12.85	15.95		15.95	0.000000	-0.02	57.25	37.72	0.01
Rio_Fucecchio	Rio_Fucecchio	14	Max WS	Att_100_36h_SIMI	6.09	12.85	15.70		15.70	0.000011	0.15	48.06	37.35	0.03
Rio_Fucecchio	Rio_Fucecchio	14	Max WS	Att_30_36h_SIMI	4.82	12.85	14.68		14.69	0.000070	0.27	18.02	15.89	0.08
Rio_Fucecchio	Rio_Fucecchio	13.9			Lat Struct									
Rio_Fucecchio	Rio_Fucecchio	13.8			Lat Struct									
Rio_Fucecchio	Rio_Fucecchio	13	Max WS	Att_200_36h_SIMI	-4.01	11.50	15.95		15.95	0.000002	-0.08	51.09	18.35	0.02
Rio_Fucecchio	Rio_Fucecchio	13	Max WS	Att_100_36h_SIMI	5.93	11.50	15.70		15.70	0.000006	0.13	46.67	17.65	0.02
Rio_Fucecchio	Rio_Fucecchio	13	Max WS	Att_30_36h_SIMI	4.82	11.50	14.68		14.69	0.000013	0.16	30.20	14.73	0.04
Rio_Fucecchio	Rio_Fucecchio	12	Max WS	Att_200_36h_SIMI	-2.36	11.78	15.95		15.95	0.000000	-0.04	83.68	34.80	0.01
Rio_Fucecchio	Rio_Fucecchio	12	Max WS	Att_100_36h_SIMI	-4.11	11.78	15.70		15.70	0.000001	-0.08	75.05	34.80	0.01
Rio_Fucecchio	Rio_Fucecchio	12	Max WS	Att_30_36h_SIMI	4.77	11.78	14.68		14.68	0.000010	0.16	40.53	29.17	0.03
Rio_Fucecchio	Rio_Fucecchio	11.8			Lat Struct									
Rio_Fucecchio	Rio_Fucecchio	11	Max WS	Att_200_36h_SIMI	-1.69	11.76	15.95		15.95	0.000000	-0.03	75.38	30.89	0.01
Rio_Fucecchio	Rio_Fucecchio	11	Max WS	Att_100_36h_SIMI	-1.65	11.76	15.70		15.70	0.000000	-0.03	67.73	30.89	0.01

HEC-RAS Locations: User Defined Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	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
Rio_Fucecchio	Rio_Fucecchio	11	Max WS	Att_30_36h_SIMI	2.51	11.76	14.68		14.68	0.000003	0.09	36.88	24.99	0.02
Rio_Fucecchio	Rio_Fucecchio	10	Max WS	Att_200_36h_SIMI	-1.87	11.68	15.95		15.95	0.000001	-0.05	47.49	19.90	0.01
Rio_Fucecchio	Rio_Fucecchio	10	Max WS	Att_100_36h_SIMI	-2.05	11.68	15.70		15.70	0.000001	-0.05	42.85	14.84	0.01
Rio_Fucecchio	Rio_Fucecchio	10	Max WS	Att_30_36h_SIMI	1.04	11.68	14.68		14.68	0.000001	0.04	28.19	13.85	0.01
Rio_Fucecchio	Rio_Fucecchio	9	Max WS	Att_200_36h_SIMI	-2.60	11.72	15.95		15.95	0.000000	-0.04	80.61	23.91	0.01
Rio_Fucecchio	Rio_Fucecchio	9	Max WS	Att_100_36h_SIMI	-4.30	11.72	15.70		15.70	0.000001	-0.07	74.68	23.91	0.01
Rio_Fucecchio	Rio_Fucecchio	9	Max WS	Att_30_36h_SIMI	0.31	11.72	14.68		14.68	0.000000	0.01	50.24	23.91	0.00
Rio_Fucecchio	Rio_Fucecchio	8	Max WS	Att_200_36h_SIMI	-6.08	11.61	15.95		15.95	0.000002	-0.09	77.12	23.60	0.01
Rio_Fucecchio	Rio_Fucecchio	8	Max WS	Att_100_36h_SIMI	-10.90	11.61	15.70		15.70	0.000009	-0.18	71.27	23.60	0.03
Rio_Fucecchio	Rio_Fucecchio	8	Max WS	Att_30_36h_SIMI	0.16	11.61	14.68		14.68	0.000000	0.00	47.14	23.60	0.00
Rio_Fucecchio	Rio_Fucecchio	7	Max WS	Att_200_36h_SIMI	16.06	11.57	15.95		15.95	0.000010	0.24	86.74	25.30	0.04
Rio_Fucecchio	Rio_Fucecchio	7	Max WS	Att_100_36h_SIMI	22.80	11.57	15.69		15.70	0.000026	0.37	80.40	25.30	0.06
Rio_Fucecchio	Rio_Fucecchio	7	Max WS	Att_30_36h_SIMI	3.72	11.57	14.68		14.68	0.000002	0.09	54.70	25.30	0.02
Rio_Fucecchio	Rio_Fucecchio	6	Max WS	Att_200_36h_SIMI	22.05	11.56	15.87		15.91	0.000900	1.01	25.28	10.40	0.16
Rio_Fucecchio	Rio_Fucecchio	6	Max WS	Att_100_36h_SIMI	29.50	11.56	15.53		15.64	0.002463	1.58	21.82	10.40	0.25
Rio_Fucecchio	Rio_Fucecchio	6	Max WS	Att_30_36h_SIMI	4.12	11.56	14.67		14.68	0.000197	0.38	12.88	10.40	0.07
Rio_Fucecchio	Rio_Fucecchio	5	Max WS	Att_200_36h_SIMI	20.72	11.56	15.83		15.87	0.000826	0.96	24.95	10.40	0.15
Rio_Fucecchio	Rio_Fucecchio	5	Max WS	Att_100_36h_SIMI	29.50	11.56	15.45		15.56	0.002767	1.65	20.95	10.40	0.27
Rio_Fucecchio	Rio_Fucecchio	5	Max WS	Att_30_36h_SIMI	4.12	11.56	14.67		14.68	0.000198	0.38	12.85	10.40	0.07
Rio_Fucecchio	Rio_Fucecchio	4	Max WS	Att_200_36h_SIMI	20.71	11.56	15.80		15.84	0.000857	0.97	24.63	10.40	0.15
Rio_Fucecchio	Rio_Fucecchio	4	Max WS	Att_100_36h_SIMI	28.31	11.56	15.36		15.48	0.002894	1.66	20.03	10.40	0.27
Rio_Fucecchio	Rio_Fucecchio	4	Max WS	Att_30_36h_SIMI	4.12	11.56	14.67		14.67	0.000199	0.38	12.83	10.40	0.07
Rio_Fucecchio	Rio_Fucecchio	3	Max WS	Att_200_36h_SIMI	20.70	11.56	15.77		15.81	0.000889	0.99	24.31	10.40	0.15
Rio_Fucecchio	Rio_Fucecchio	3	Max WS	Att_100_36h_SIMI	28.17	11.56	15.27		15.40	0.003258	1.74	19.13	10.40	0.29
Rio_Fucecchio	Rio_Fucecchio	3	Max WS	Att_30_36h_SIMI	4.12	11.56	14.67		14.67	0.000200	0.38	12.80	10.40	0.07

# **Scenario D**

**Tr 200, 100 e 30 anni**

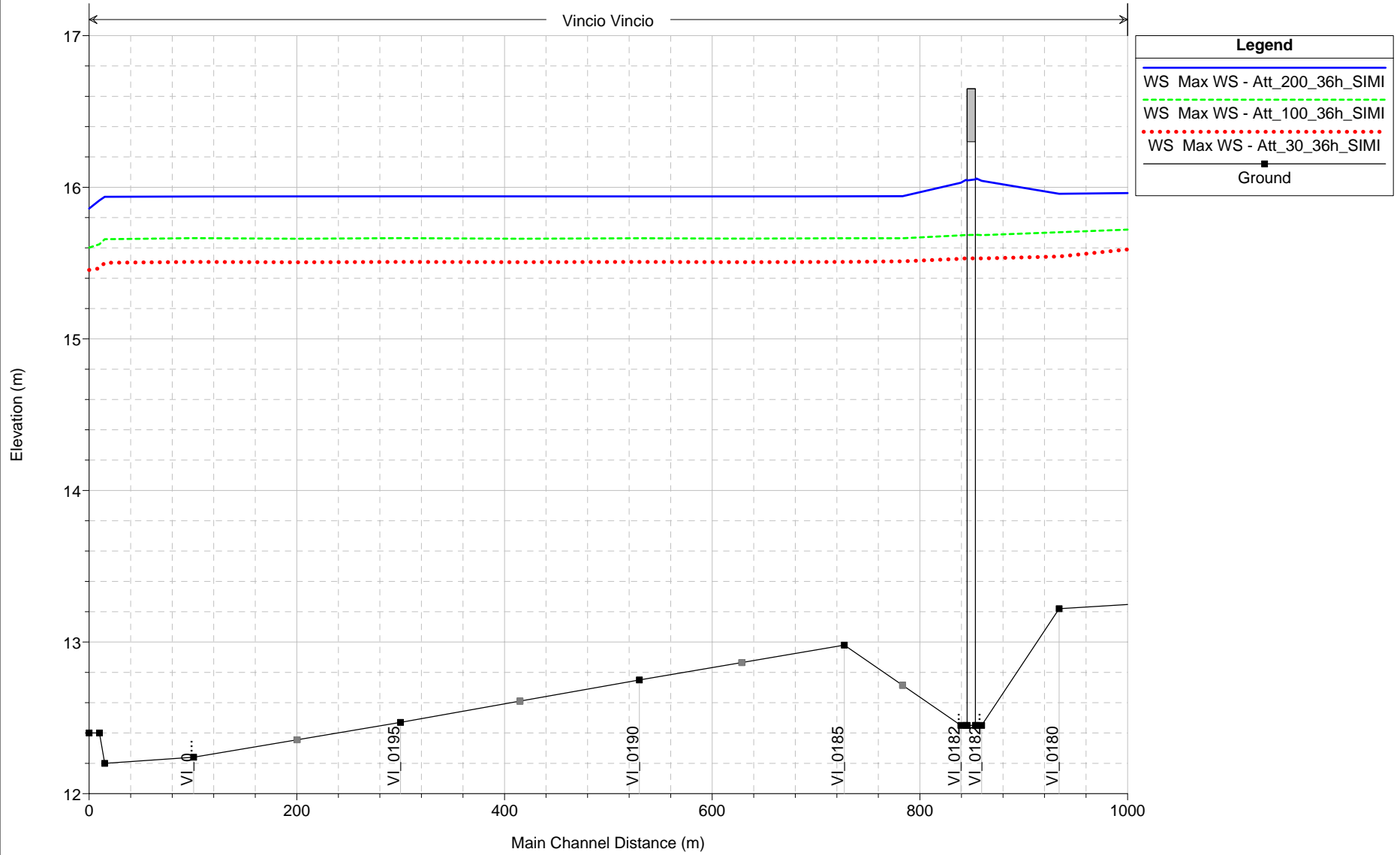
## **TORRENTE VINCIO**

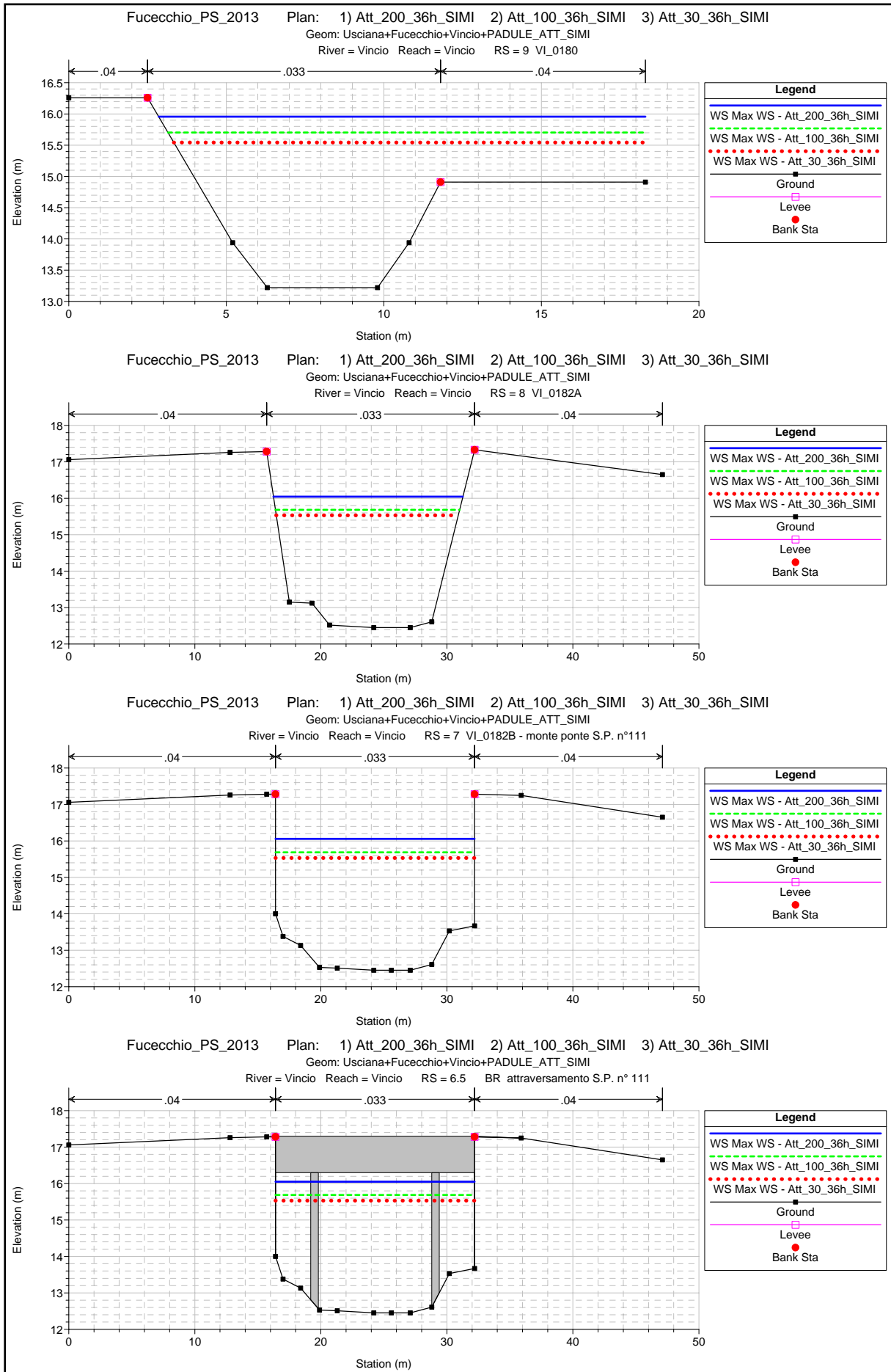
- **Profili**
- **Sezioni**
- **Tabelle di Output**

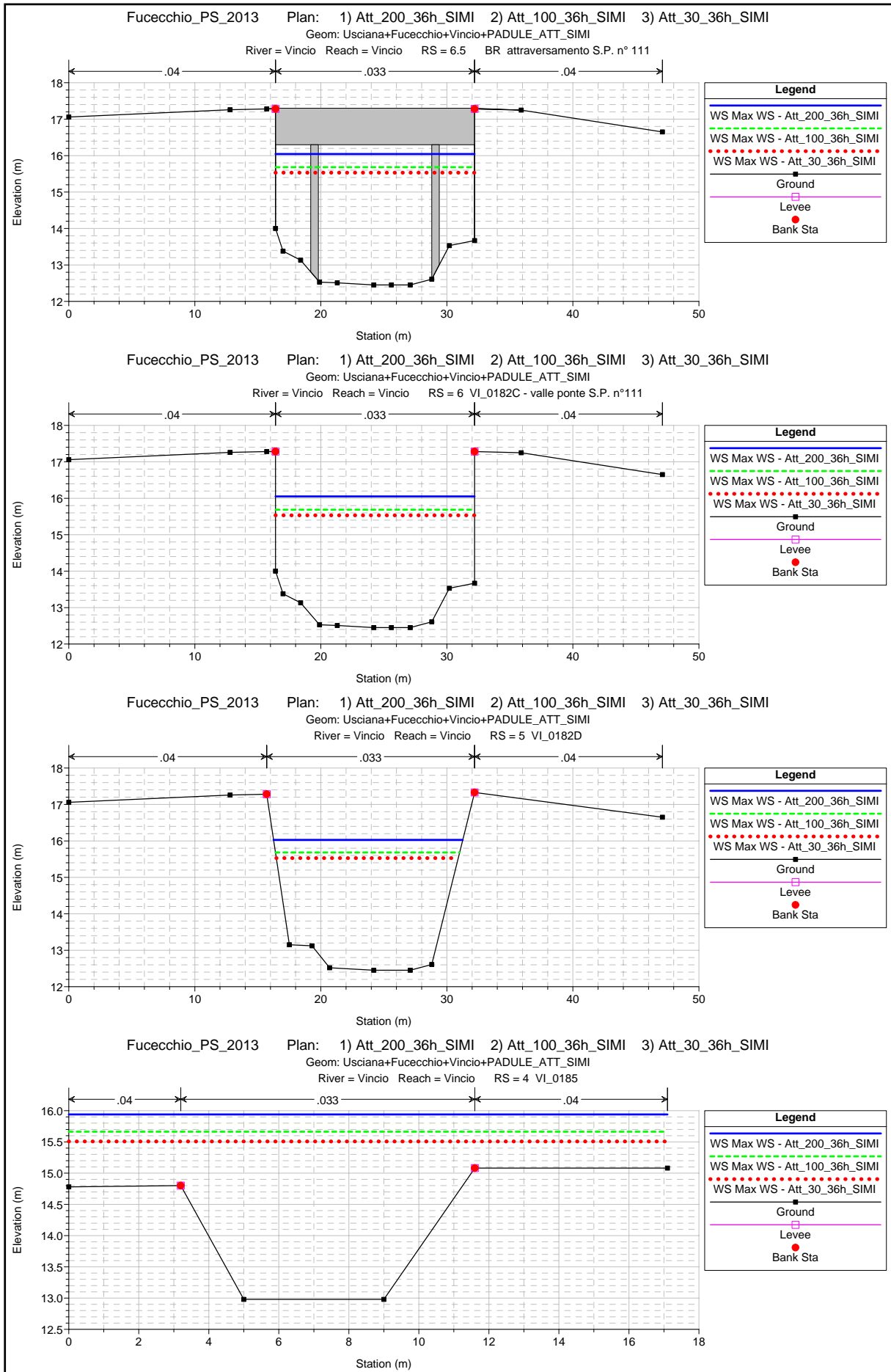


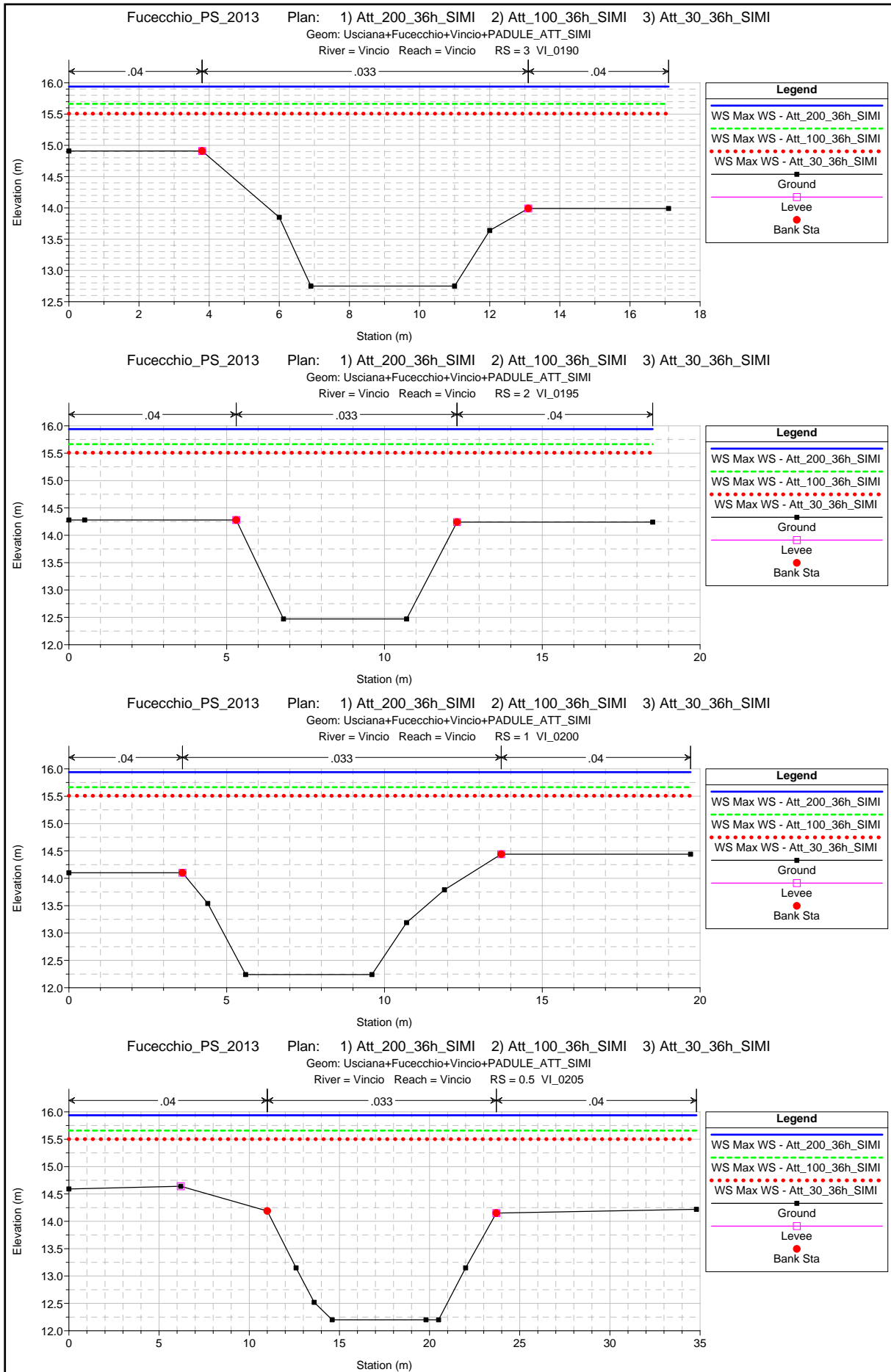
Fucecchio\_PS\_2013 Plan: 1) Att\_200\_36h\_SIMI 2) Att\_100\_36h\_SIMI 3) Att\_30\_36h\_SIMI

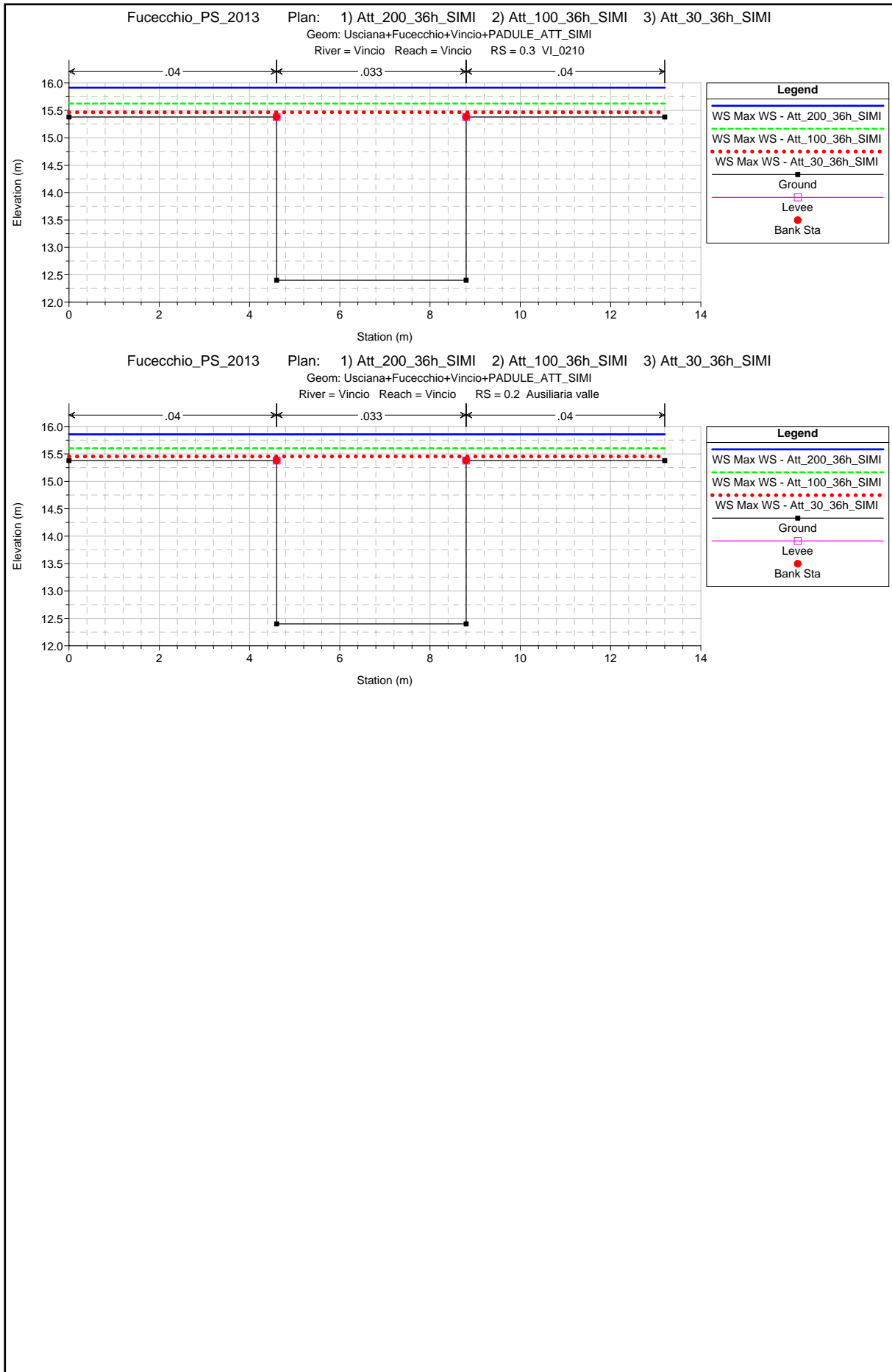
Geom: Usciana+Fucecchio+Vincio+PADULE\_ATT\_SIMI











HEC-RAS Locations: User Defined Profile: Max WS

River	Reach	River Sta	Profile	Plan	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
Vincio	Vincio	9	Max WS	Att_200_36h_SIMI	5.97	13.22	15.96		15.96	0.000038	0.27	25.27	15.45	0.06
Vincio	Vincio	9	Max WS	Att_100_36h_SIMI	11.37	13.22	15.70		15.72	0.000215	0.61	21.39	15.15	0.14
Vincio	Vincio	9	Max WS	Att_30_36h_SIMI	11.42	13.22	15.54		15.57	0.000297	0.69	18.99	14.97	0.17
Vincio	Vincio	8	Max WS	Att_200_36h_SIMI	53.36	12.45	16.04		16.12	0.000491	1.20	44.65	15.03	0.22
Vincio	Vincio	8	Max WS	Att_100_36h_SIMI	18.40	12.45	15.68		15.70	0.000084	0.47	39.34	14.62	0.09
Vincio	Vincio	8	Max WS	Att_30_36h_SIMI	16.18	12.45	15.53		15.54	0.000077	0.44	37.10	14.44	0.09
Vincio	Vincio	7	Max WS	Att_200_36h_SIMI	53.39	12.45	16.06	13.87	16.11	0.000362	1.05	51.07	15.80	0.19
Vincio	Vincio	7	Max WS	Att_100_36h_SIMI	18.45	12.45	15.69	13.22	15.70	0.000062	0.41	45.21	15.80	0.08
Vincio	Vincio	7	Max WS	Att_30_36h_SIMI	16.18	12.45	15.53	13.16	15.54	0.000056	0.38	42.77	15.80	0.07
Vincio	Vincio	6.5			Bridge									
Vincio	Vincio	6	Max WS	Att_200_36h_SIMI	53.39	12.45	16.05		16.10	0.000365	1.05	50.93	15.80	0.19
Vincio	Vincio	6	Max WS	Att_100_36h_SIMI	18.40	12.45	15.69		15.69	0.000062	0.41	45.19	15.80	0.08
Vincio	Vincio	6	Max WS	Att_30_36h_SIMI	16.18	12.45	15.53		15.54	0.000056	0.38	42.75	15.80	0.07
Vincio	Vincio	5	Max WS	Att_200_36h_SIMI	53.34	12.45	16.03		16.10	0.000497	1.20	44.46	15.02	0.22
Vincio	Vincio	5	Max WS	Att_100_36h_SIMI	18.40	12.45	15.68		15.69	0.000084	0.47	39.31	14.62	0.09
Vincio	Vincio	5	Max WS	Att_30_36h_SIMI	16.18	12.45	15.53		15.54	0.000077	0.44	37.08	14.44	0.09
Vincio	Vincio	4.99			Lat Struct									
Vincio	Vincio	4.98			Lat Struct									
Vincio	Vincio	4	Max WS	Att_200_36h_SIMI	7.28	12.98	15.94		15.94	0.000038	0.30	28.89	17.10	0.06
Vincio	Vincio	4	Max WS	Att_100_36h_SIMI	13.17	12.98	15.66		15.68	0.000199	0.64	24.19	17.10	0.14
Vincio	Vincio	4	Max WS	Att_30_36h_SIMI	12.04	12.98	15.51		15.53	0.000226	0.65	21.51	17.10	0.15
Vincio	Vincio	3	Max WS	Att_200_36h_SIMI	4.41	12.75	15.94		15.94	0.000008	0.15	35.67	17.10	0.03
Vincio	Vincio	3	Max WS	Att_100_36h_SIMI	6.80	12.75	15.66		15.67	0.000028	0.26	30.96	17.10	0.05
Vincio	Vincio	3	Max WS	Att_30_36h_SIMI	6.35	12.75	15.51		15.51	0.000032	0.26	28.28	17.10	0.06
Vincio	Vincio	2	Max WS	Att_200_36h_SIMI	-3.68	12.47	15.94		15.94	0.000004	-0.12	40.84	18.50	0.02
Vincio	Vincio	2	Max WS	Att_100_36h_SIMI	-1.44	12.47	15.66		15.66	0.000001	-0.05	35.76	18.50	0.01
Vincio	Vincio	2	Max WS	Att_30_36h_SIMI	-2.50	12.47	15.51		15.51	0.000004	-0.10	32.86	18.50	0.02
Vincio	Vincio	1	Max WS	Att_200_36h_SIMI	-8.24	12.24	15.94		15.94	0.000015	-0.22	45.54	19.70	0.04
Vincio	Vincio	1	Max WS	Att_100_36h_SIMI	-6.59	12.24	15.66		15.67	0.000013	-0.20	40.12	19.70	0.04
Vincio	Vincio	1	Max WS	Att_30_36h_SIMI	-7.48	12.24	15.51		15.51	0.000022	-0.24	37.04	19.70	0.05
Vincio	Vincio	0.5	Max WS	Att_200_36h_SIMI	13.53	12.20	15.94		15.94	0.000014	0.23	76.10	34.80	0.04

HEC-RAS Locations: User Defined Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	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
Vincio	Vincio	0.5	Max WS	Att_100_36h_SIMI	14.39	12.20	15.66		15.66	0.000023	0.28	66.36	34.80	0.05
Vincio	Vincio	0.5	Max WS	Att_30_36h_SIMI	14.22	12.20	15.50		15.51	0.000028	0.30	60.94	34.80	0.06
Vincio	Vincio	0.3	Max WS	Att_200_36h_SIMI	13.53	12.40	15.91		15.94	0.000613	0.81	19.55	13.20	0.14
Vincio	Vincio	0.3	Max WS	Att_100_36h_SIMI	14.39	12.40	15.62		15.67	0.001087	1.02	15.74	13.20	0.18
Vincio	Vincio	0.3	Max WS	Att_30_36h_SIMI	14.22	12.40	15.46		15.53	0.001343	1.10	13.64	13.20	0.20
Vincio	Vincio	0.2	Max WS	Att_200_36h_SIMI	16.59	12.40	15.86	13.57	15.91	0.001002	1.03	18.84	13.20	0.18
Vincio	Vincio	0.2	Max WS	Att_100_36h_SIMI	15.09	12.40	15.60	13.50	15.66	0.001235	1.08	15.45	13.20	0.19
Vincio	Vincio	0.2	Max WS	Att_30_36h_SIMI	14.22	12.40	15.45	13.45	15.52	0.001363	1.10	13.50	13.20	0.20

# **Scenario D**

**Tr 200, 100 e 30 anni**

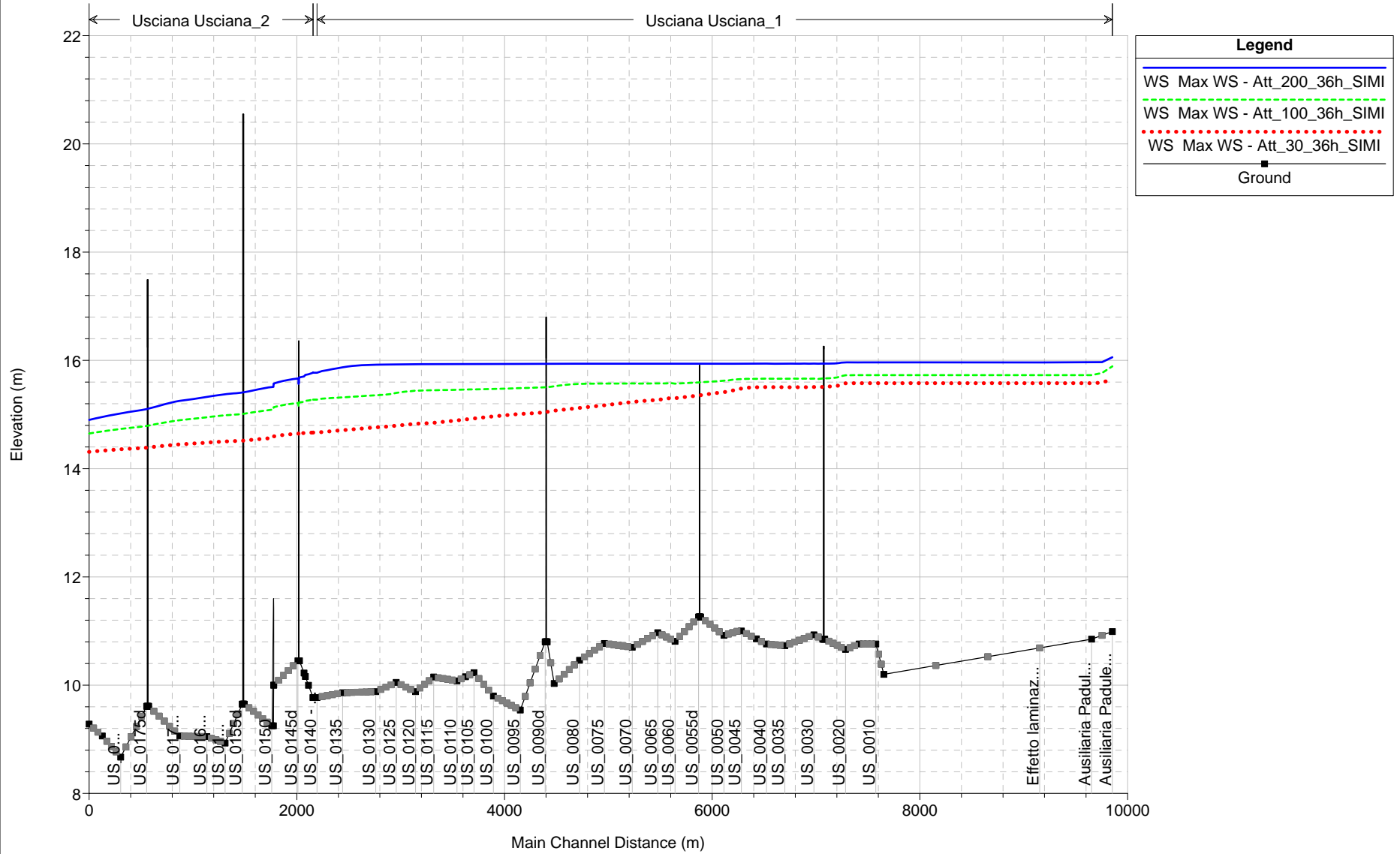
## **CANALE USCIANA**

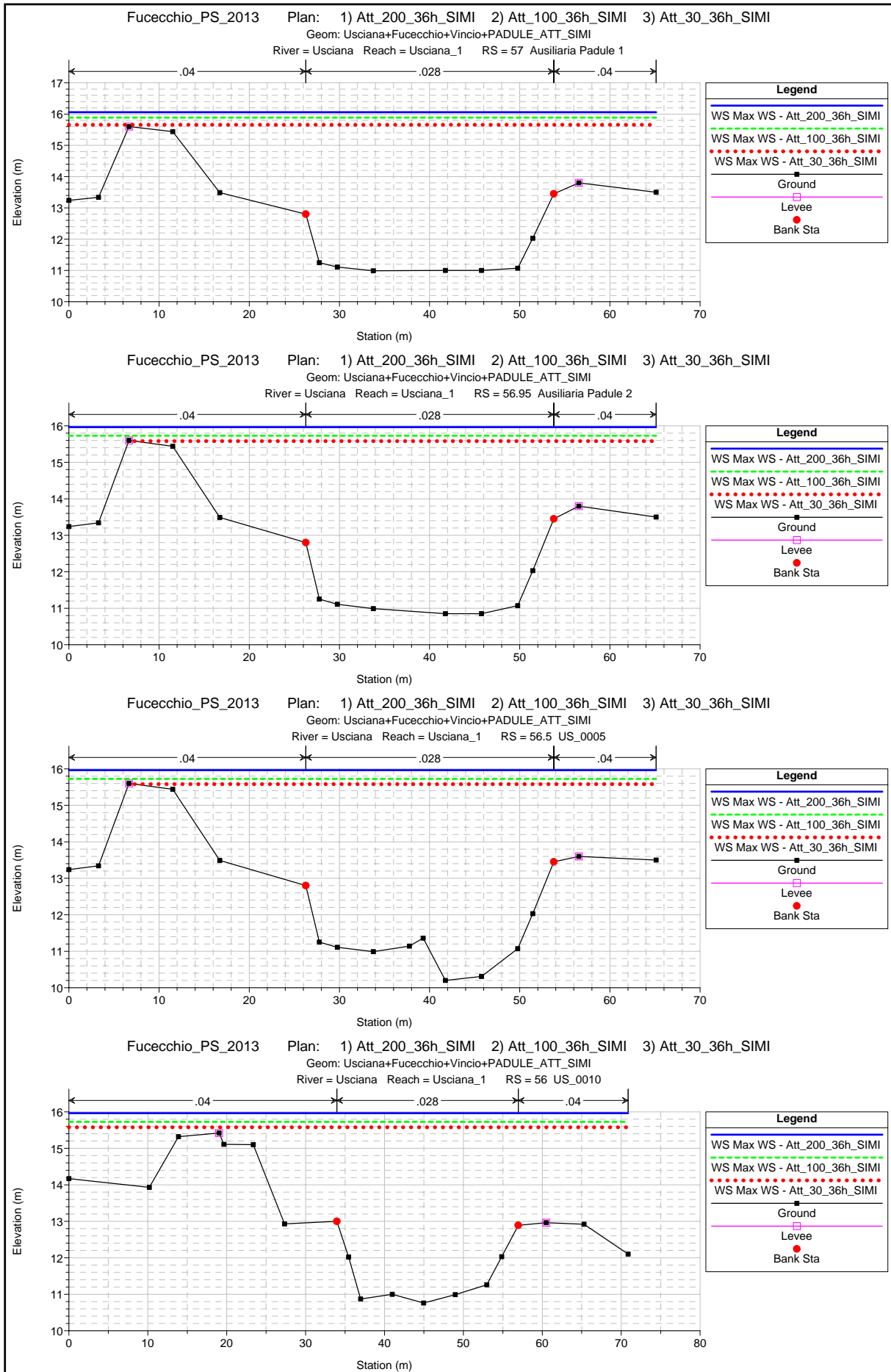
- **Profili**
- **Sezioni**
- **Tabelle di Output**

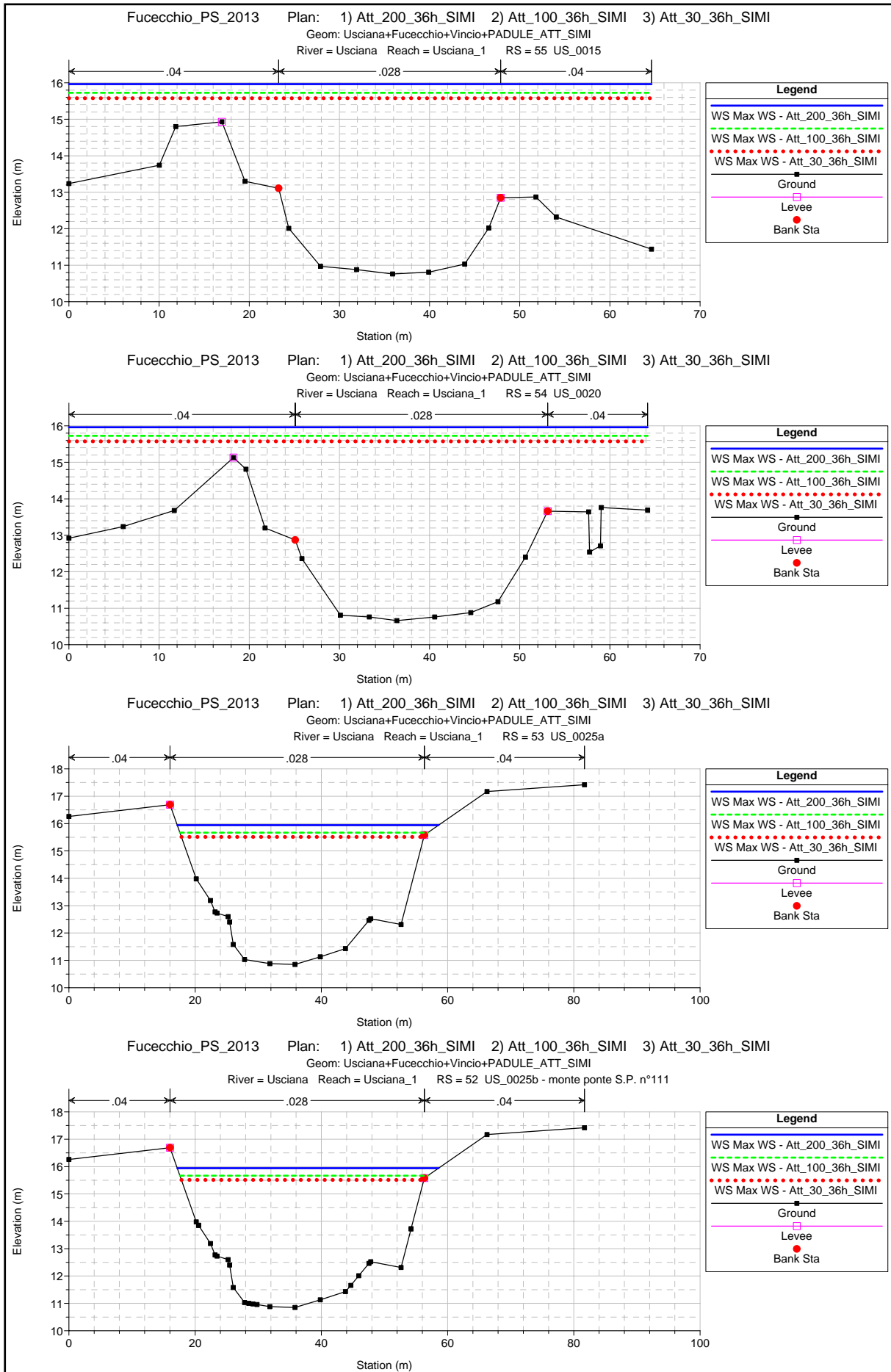


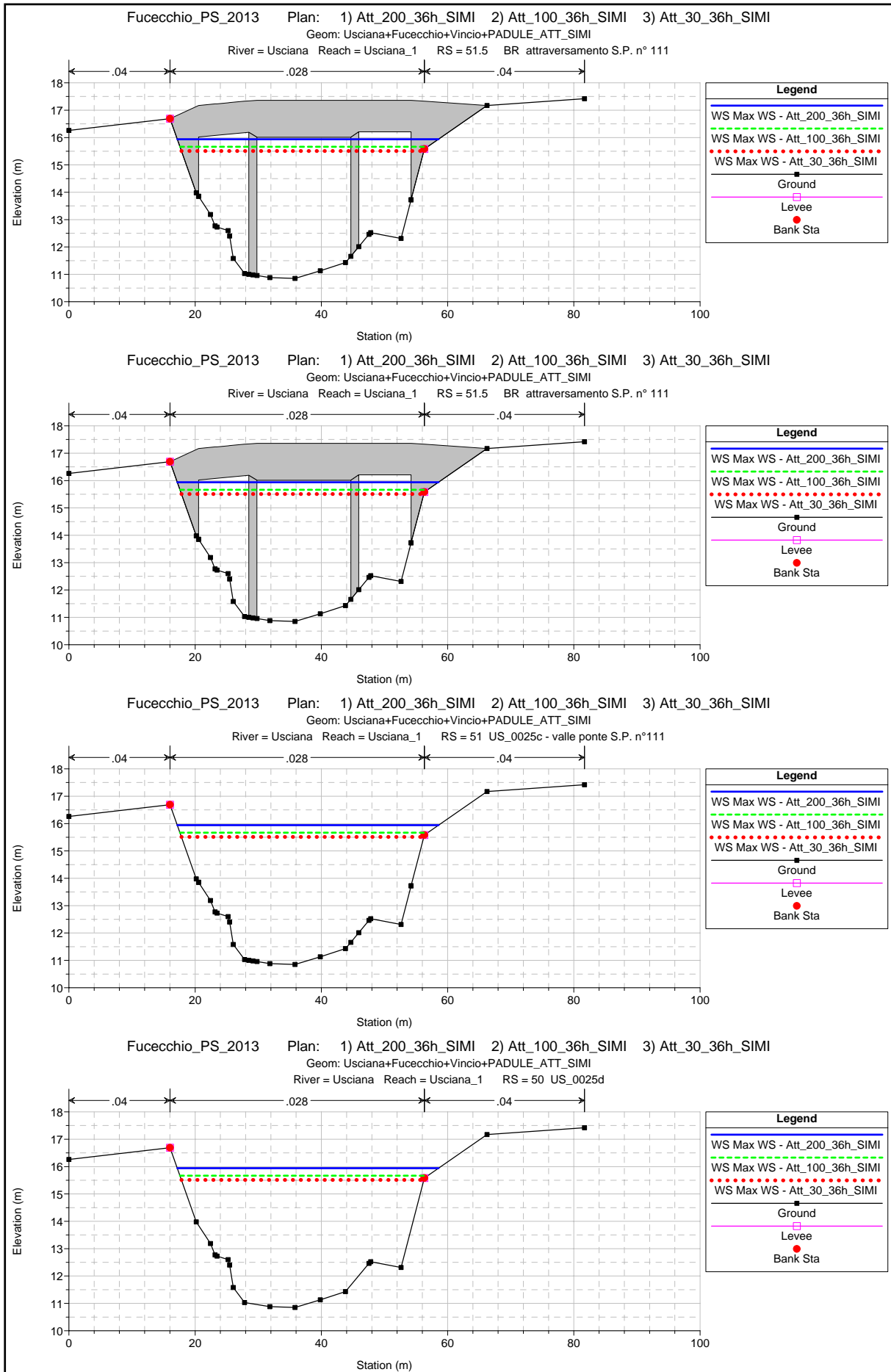
Fucecchio\_PS\_2013 Plan: 1) Att\_200\_36h\_SIMI 2) Att\_100\_36h\_SIMI 3) Att\_30\_36h\_SIMI

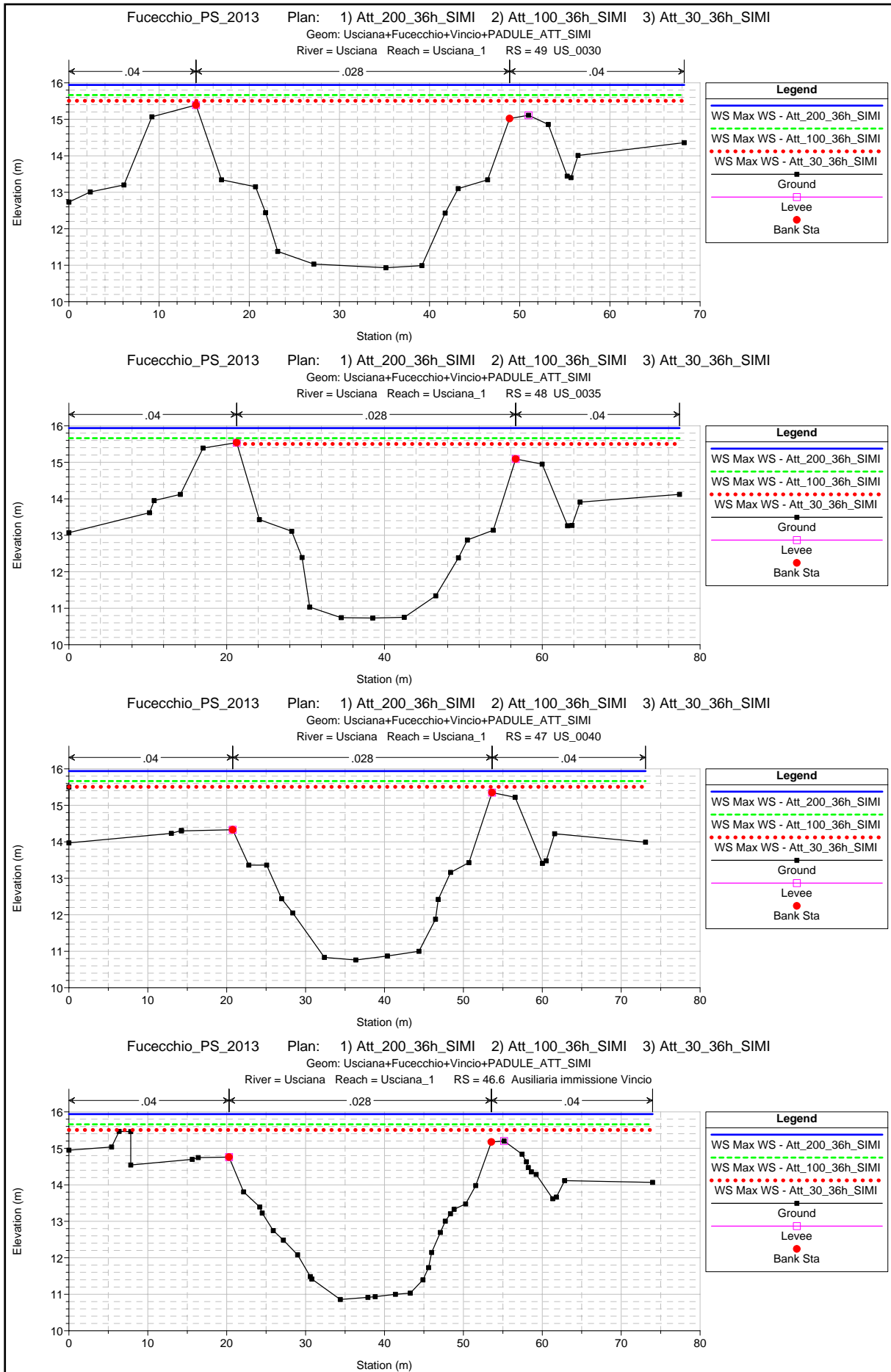
Geom: Usciana+Fucecchio+Vincio+PADULE\_ATT\_SIMI

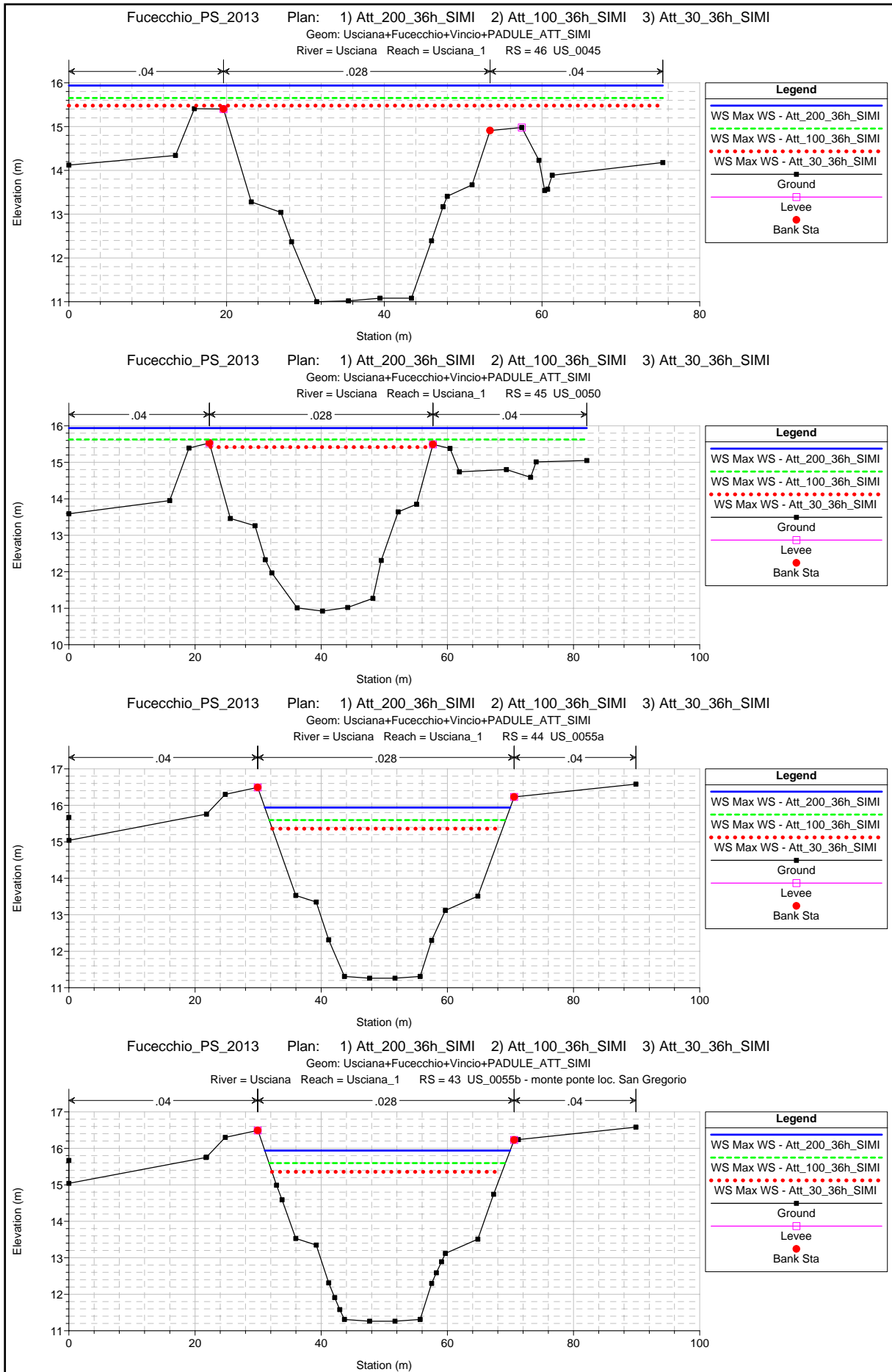


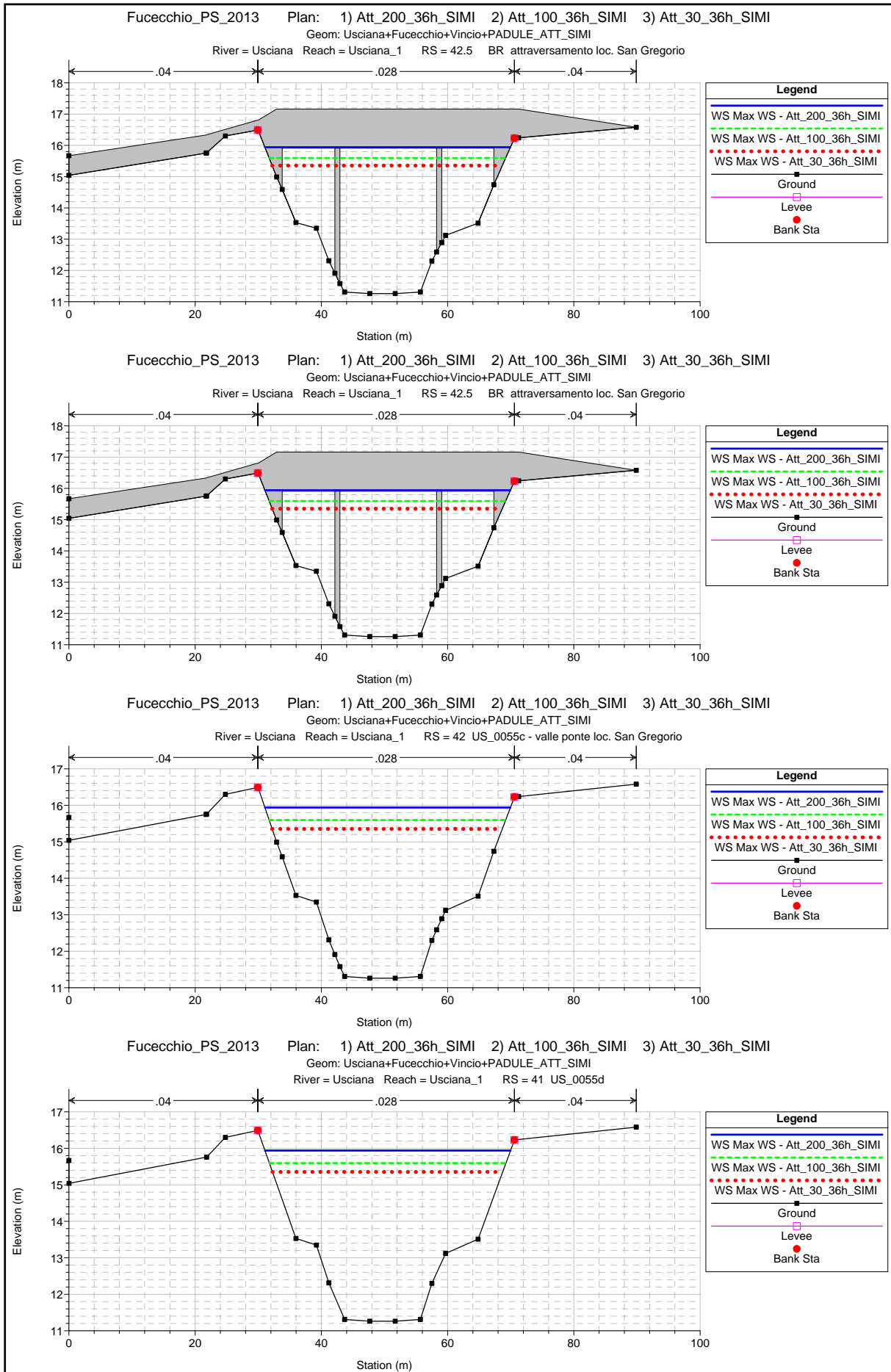


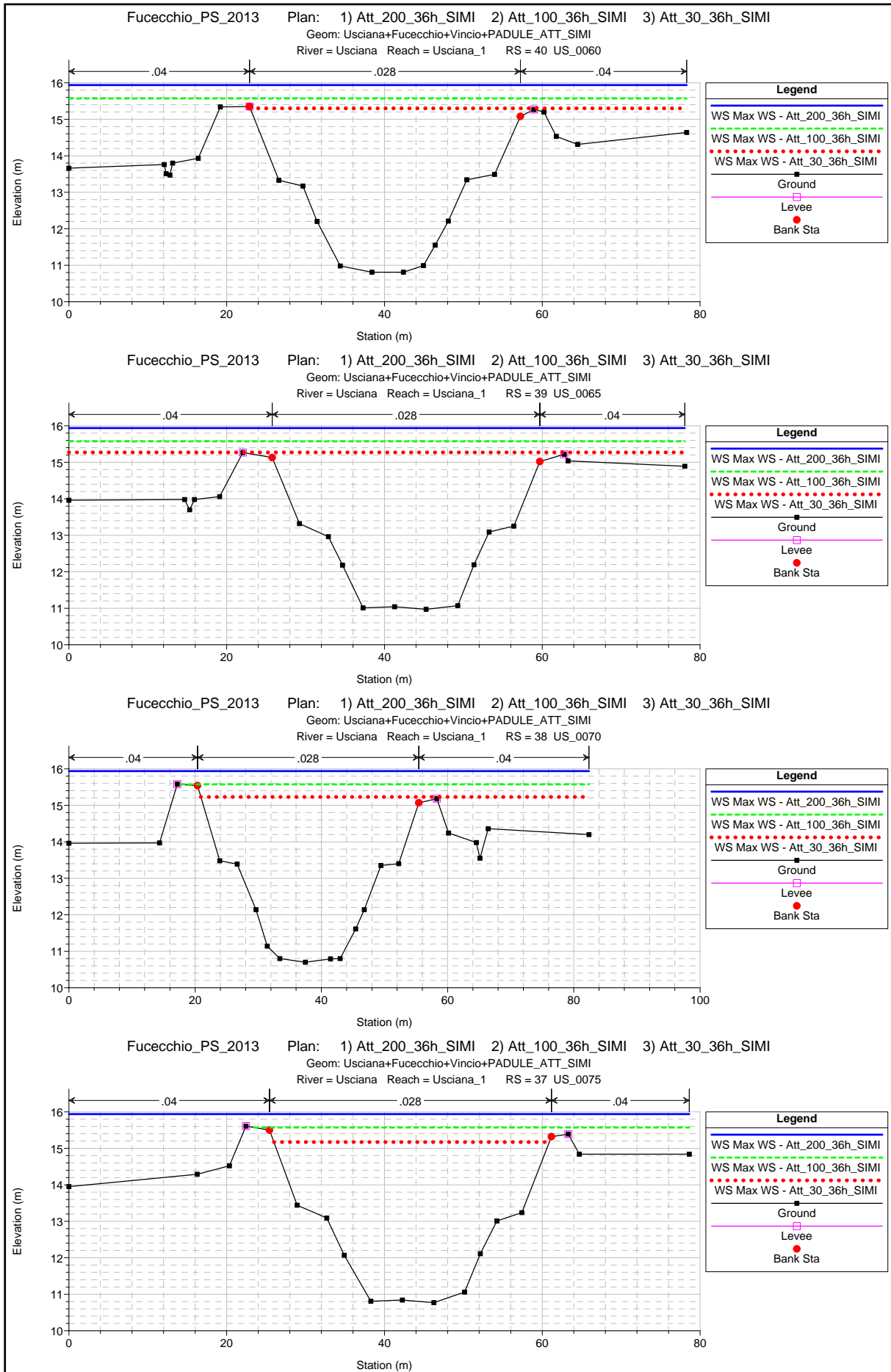




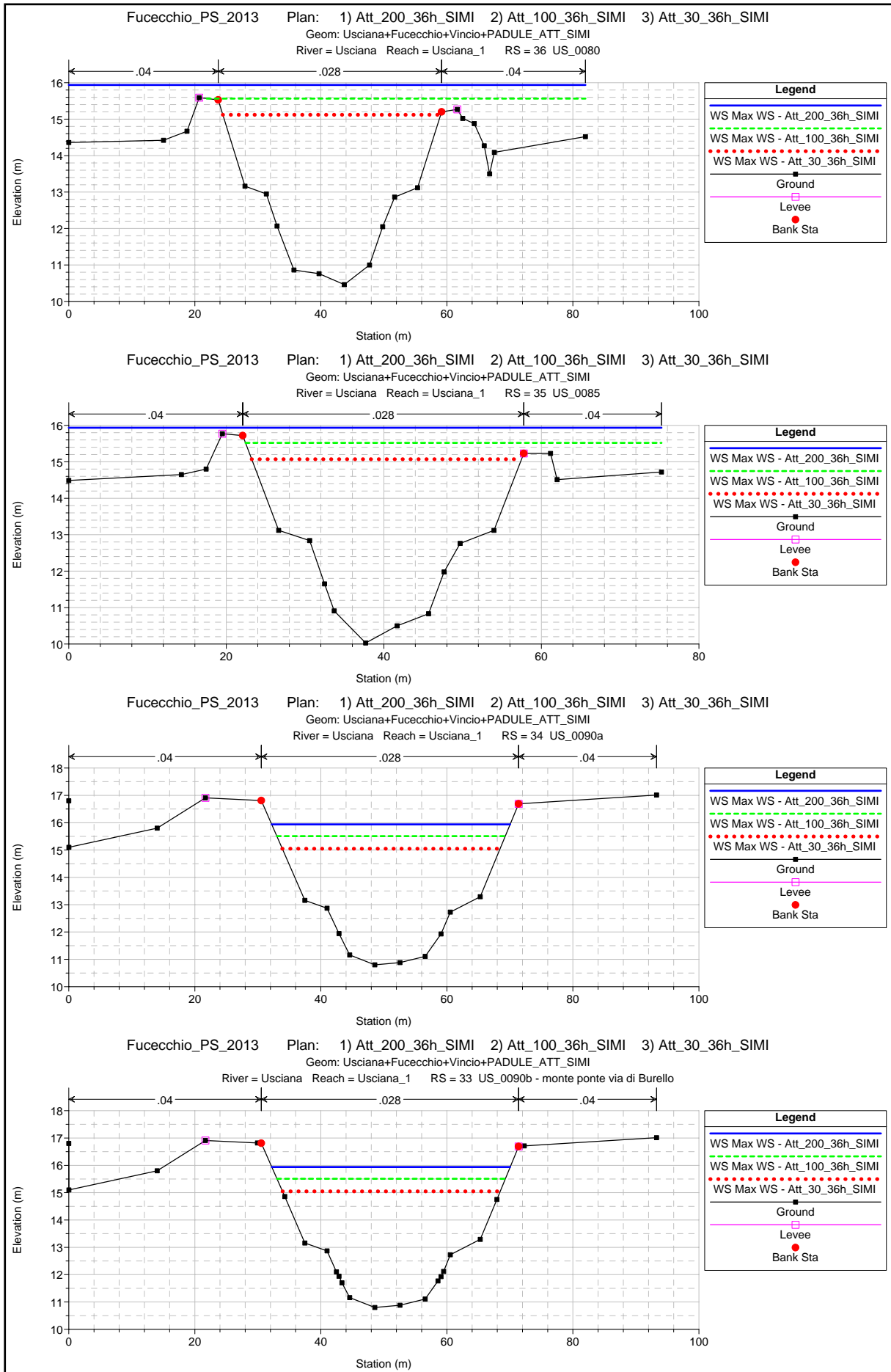


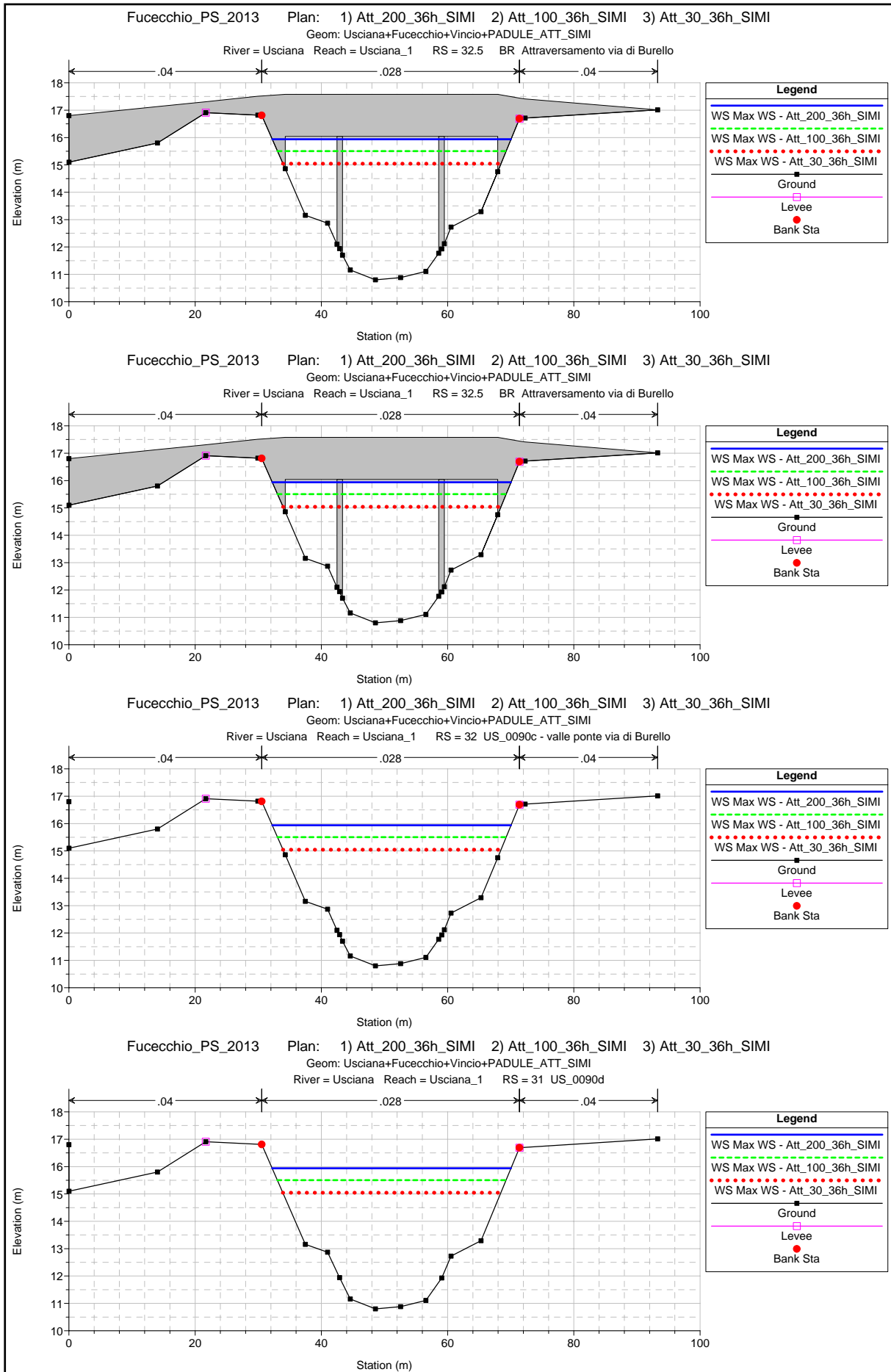


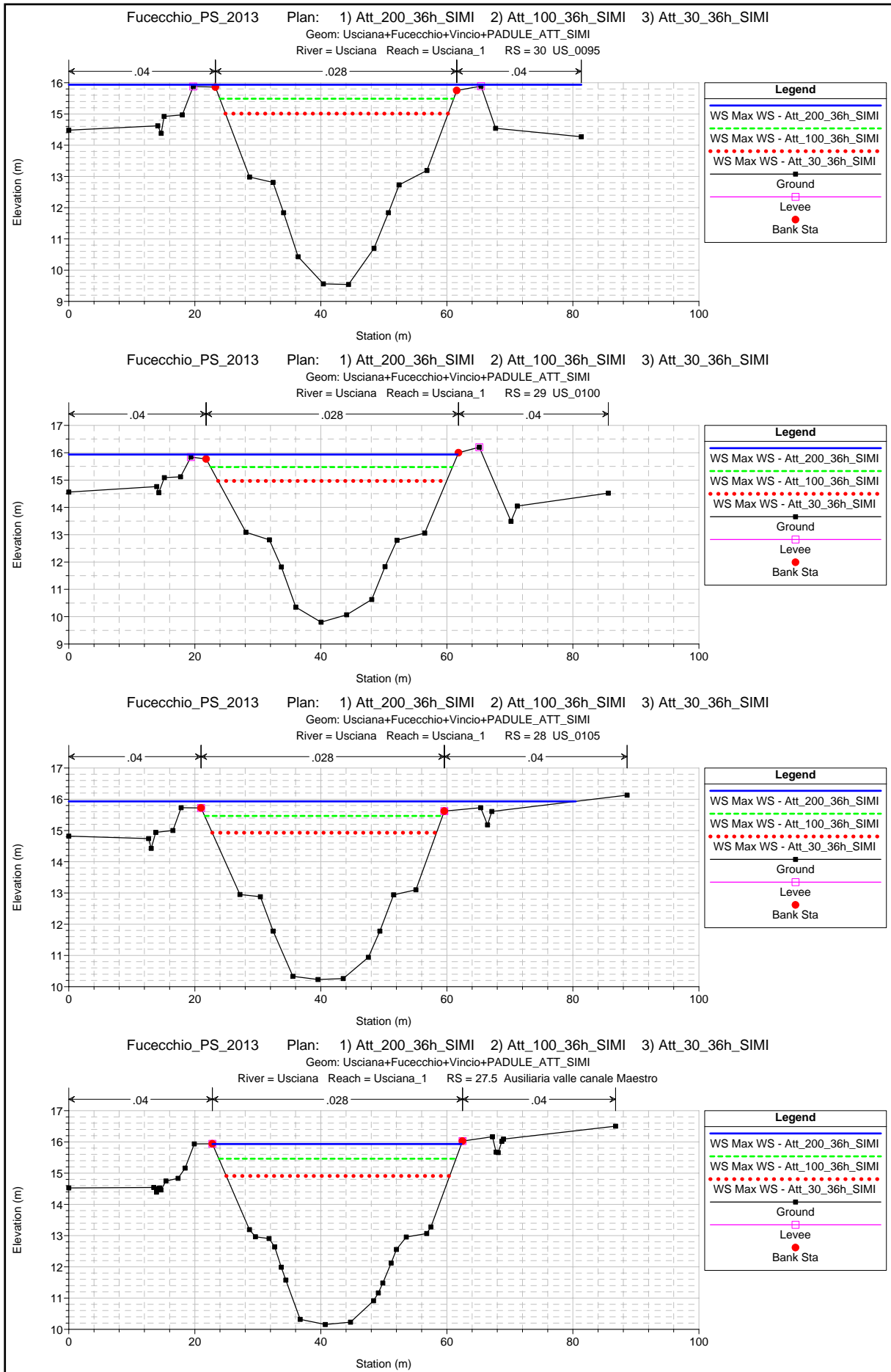


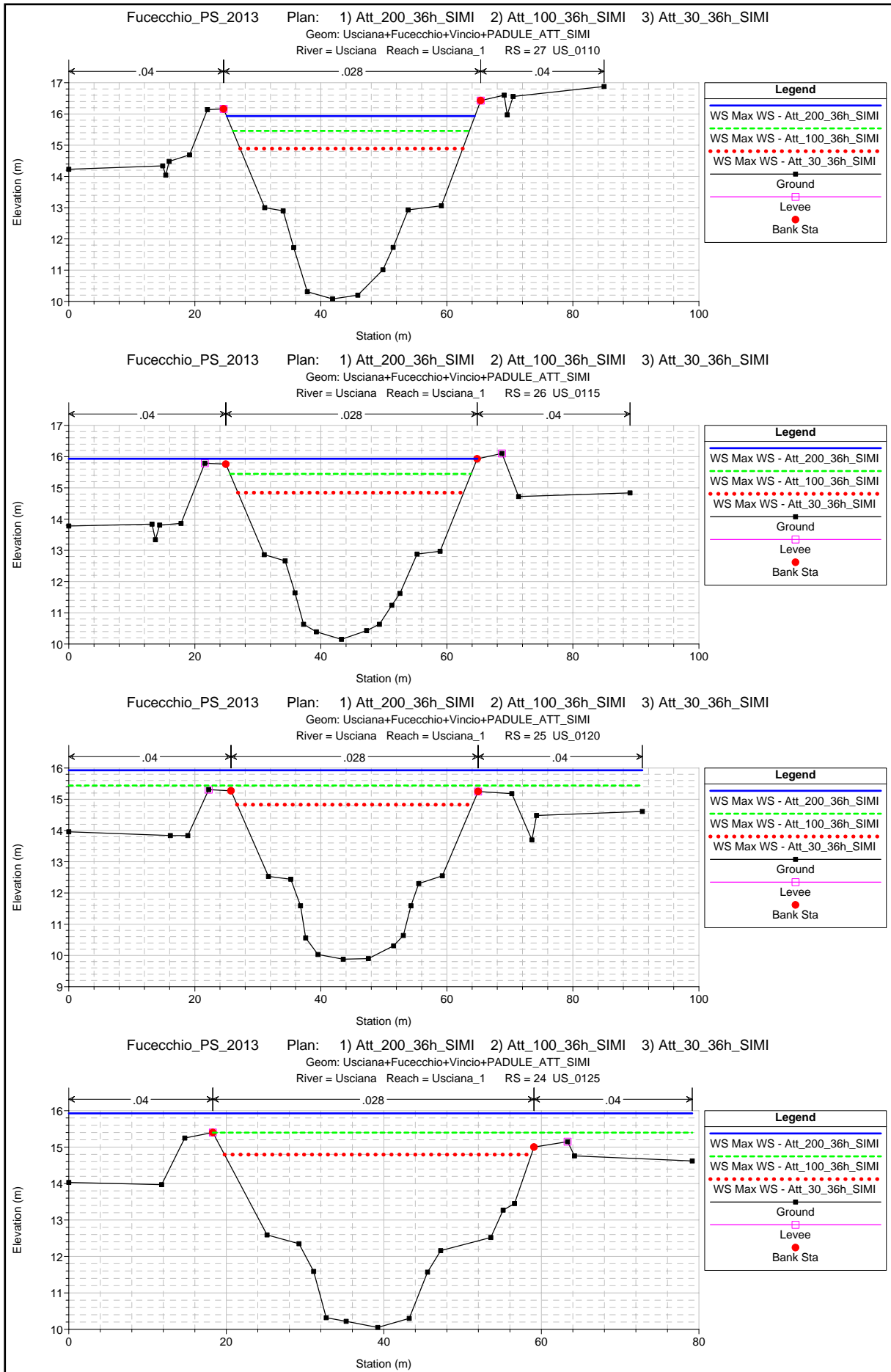


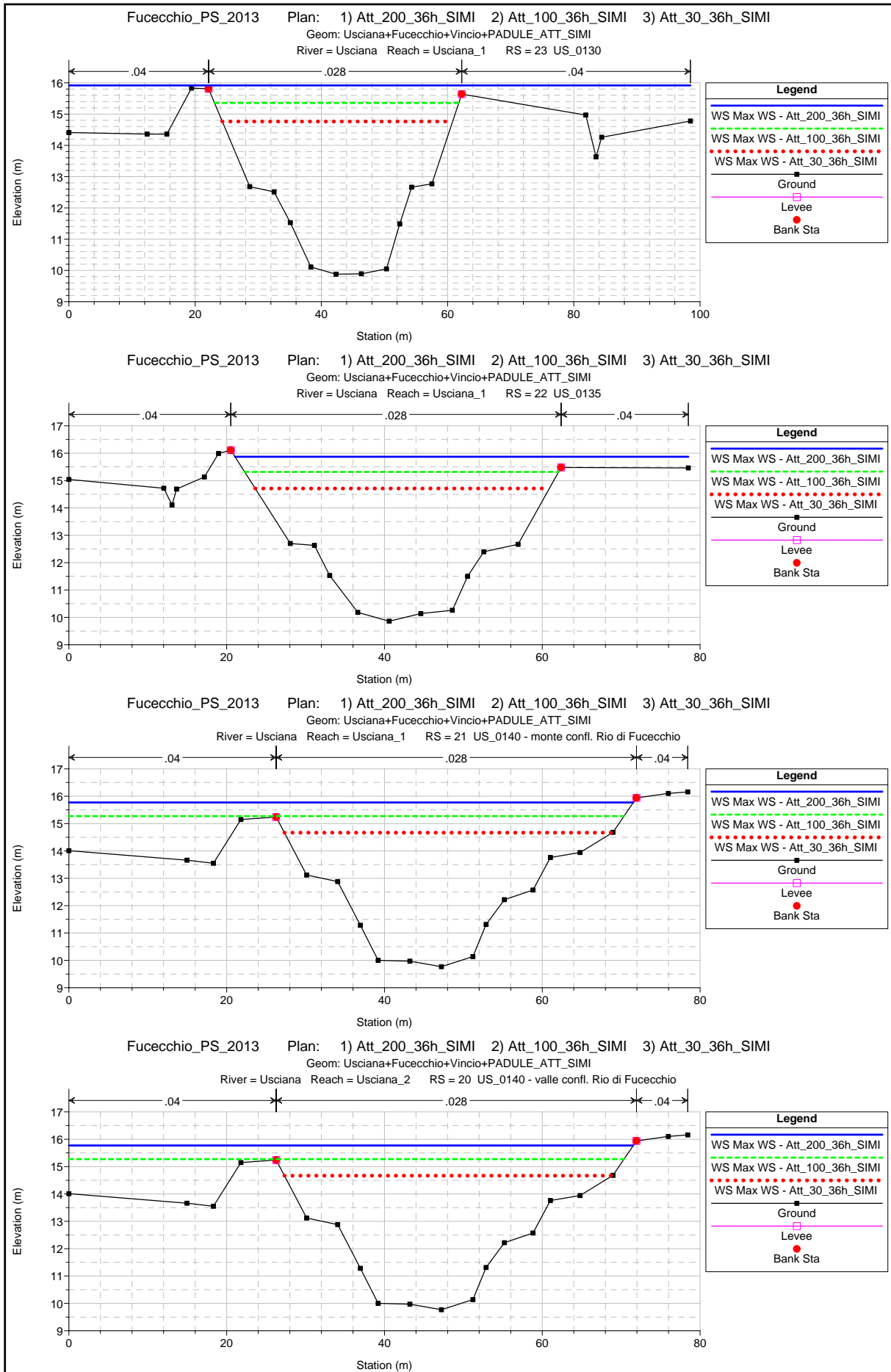


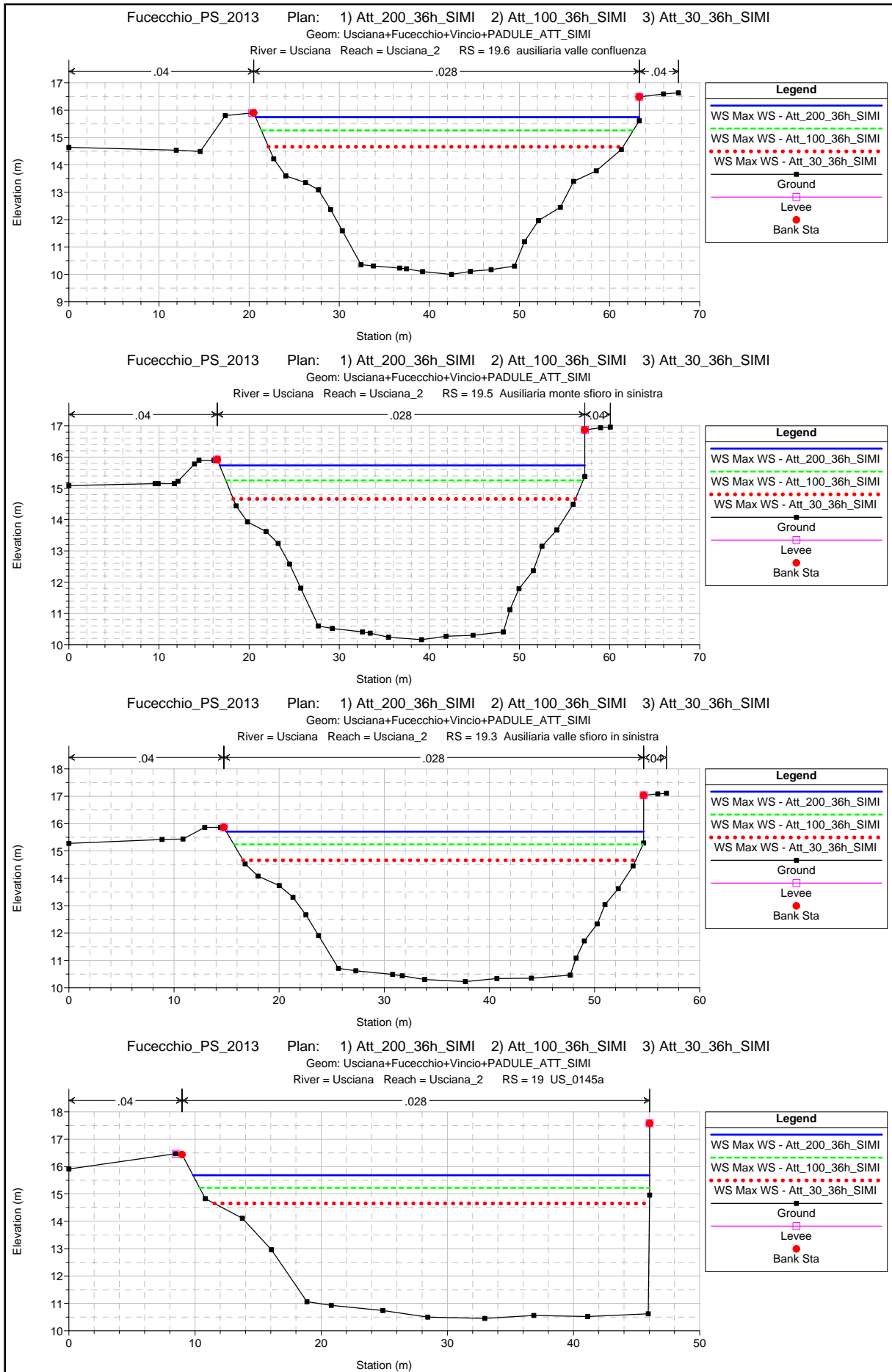


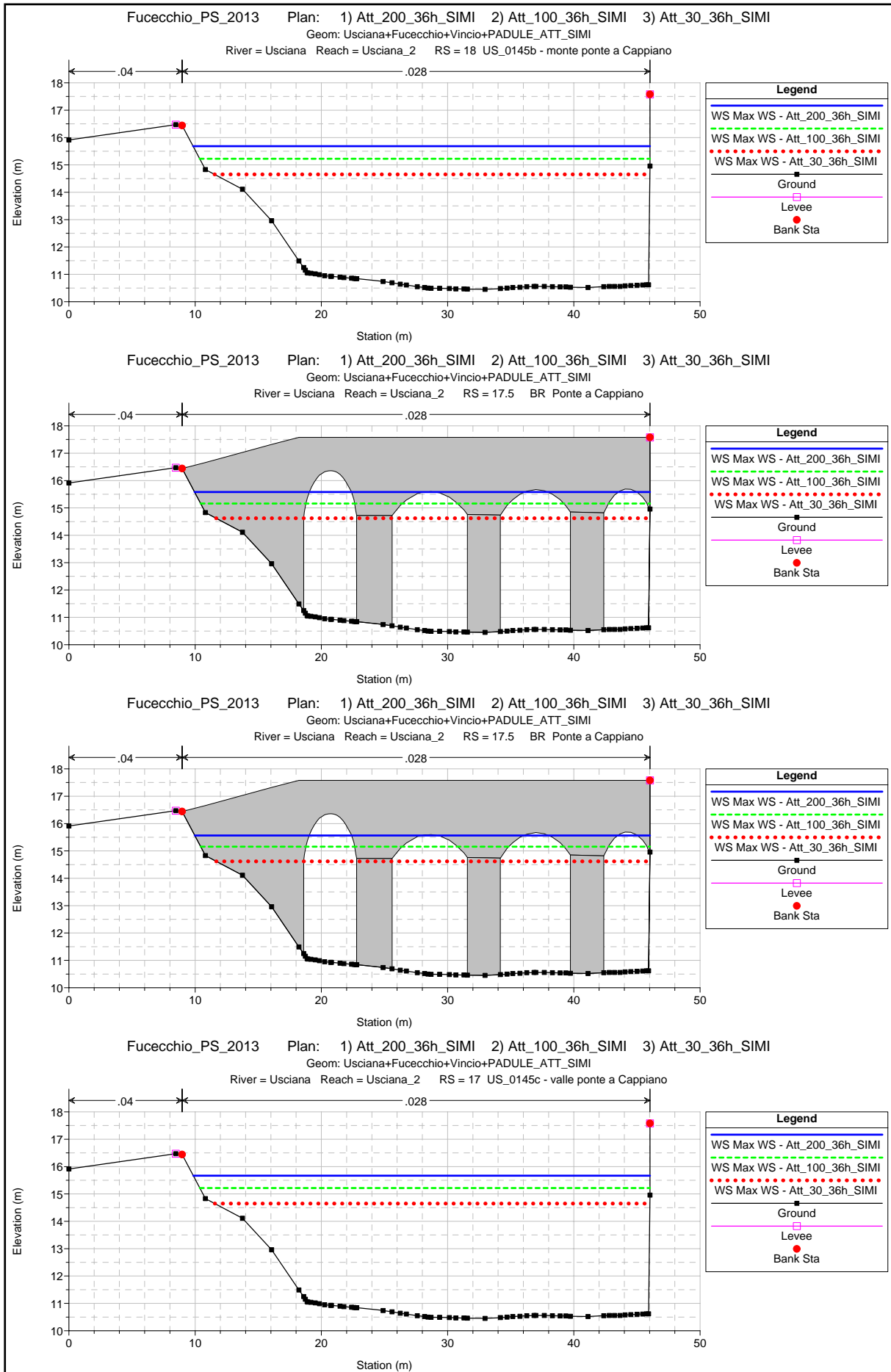


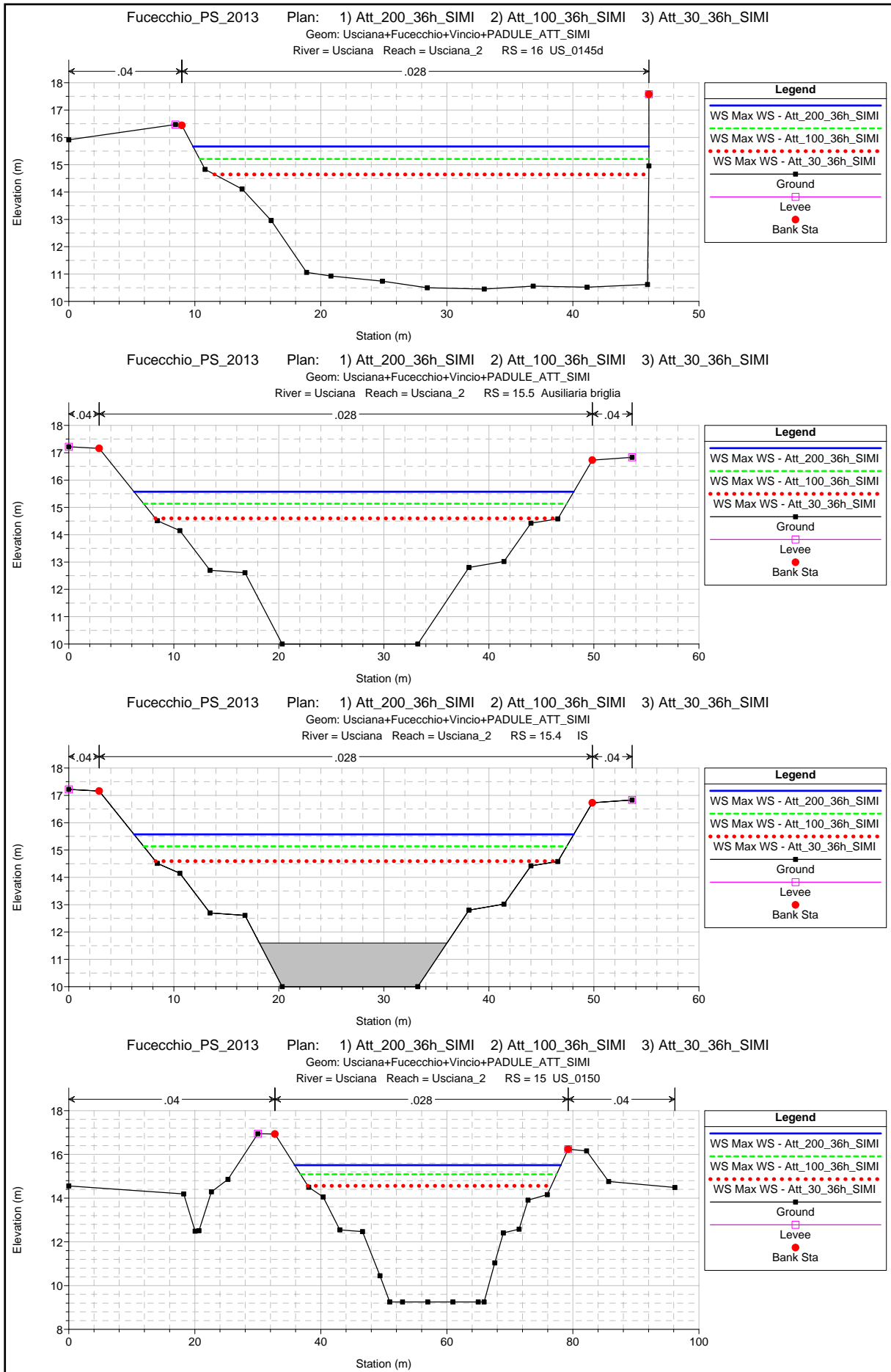




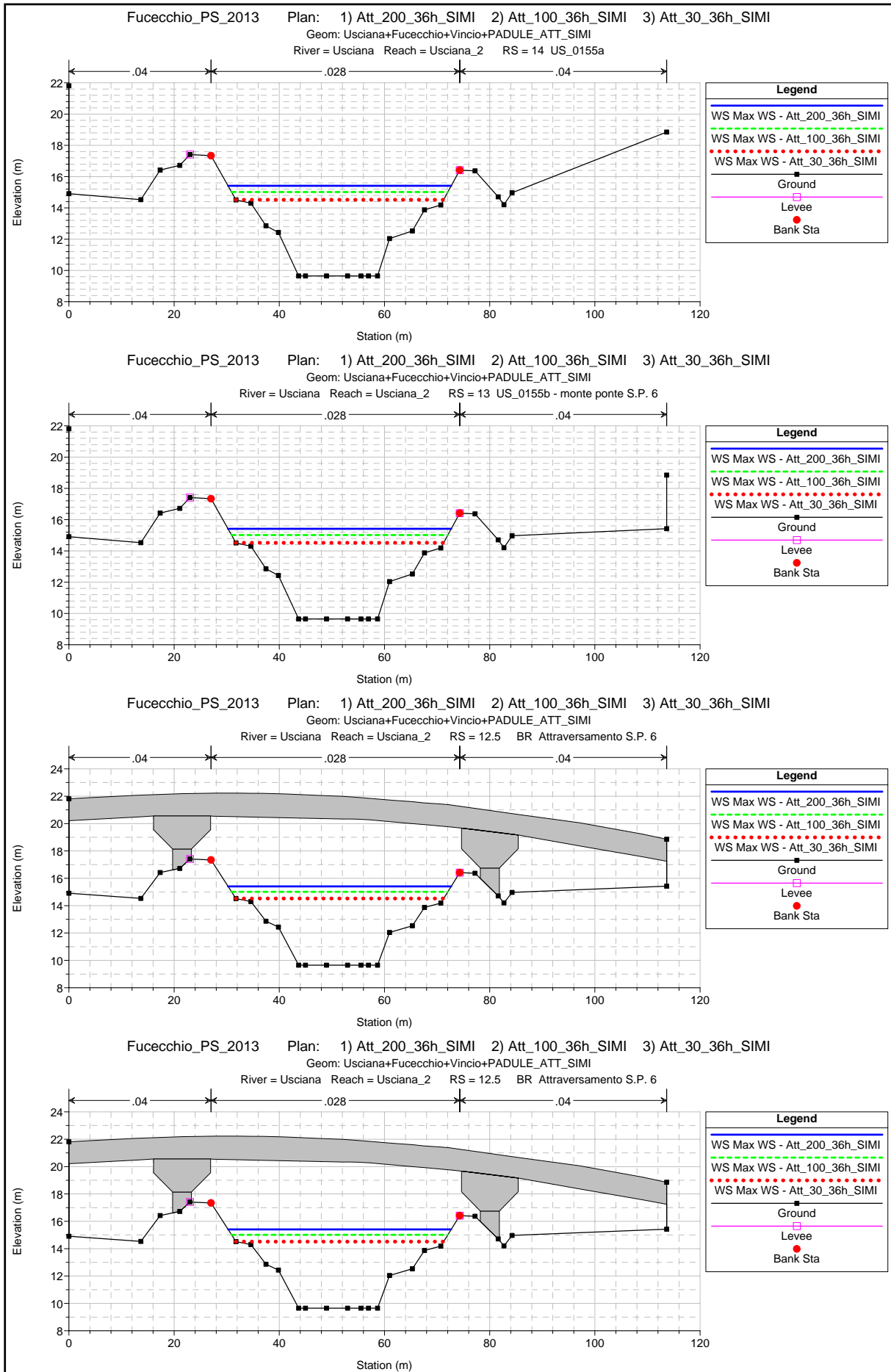


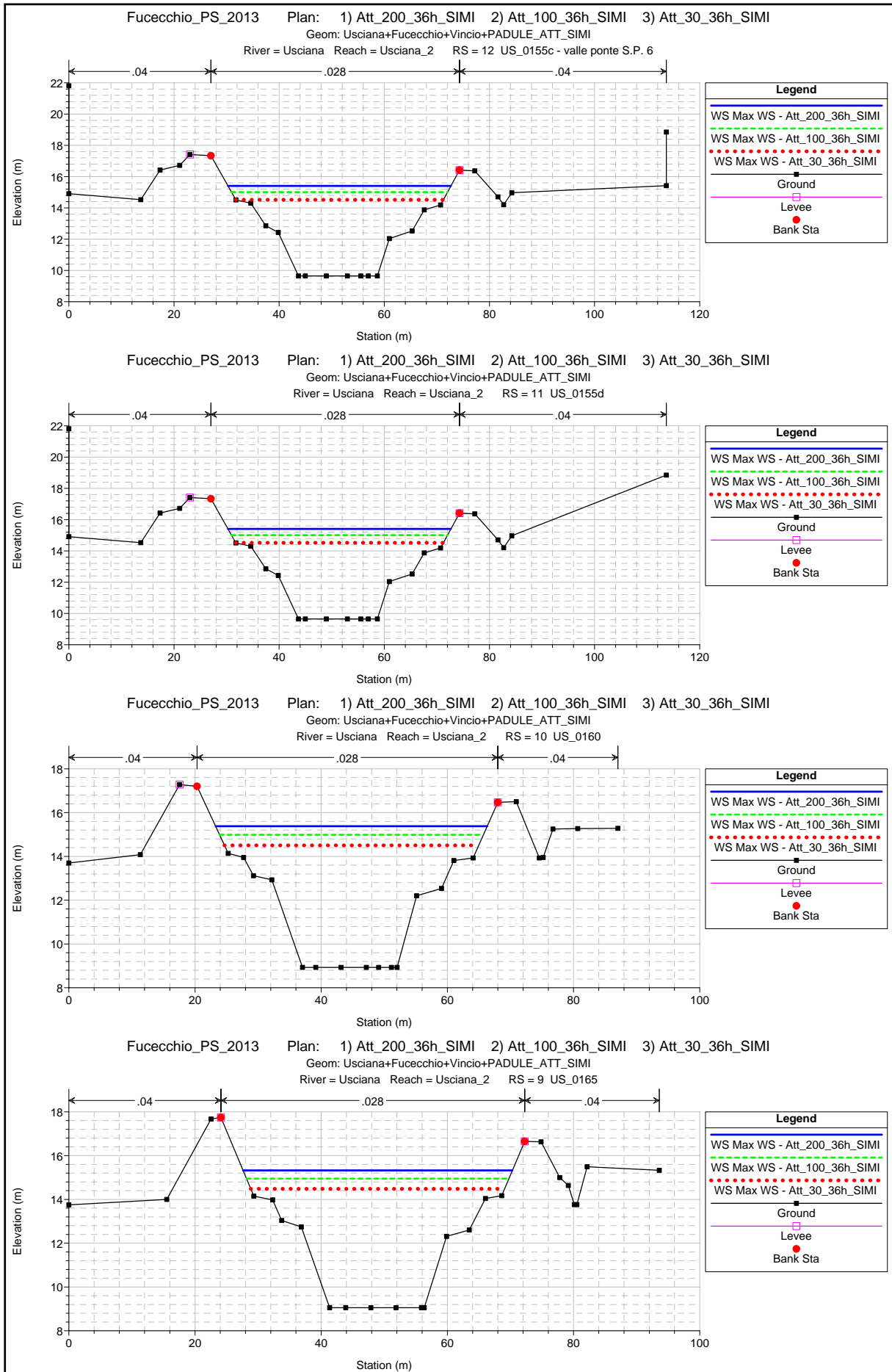


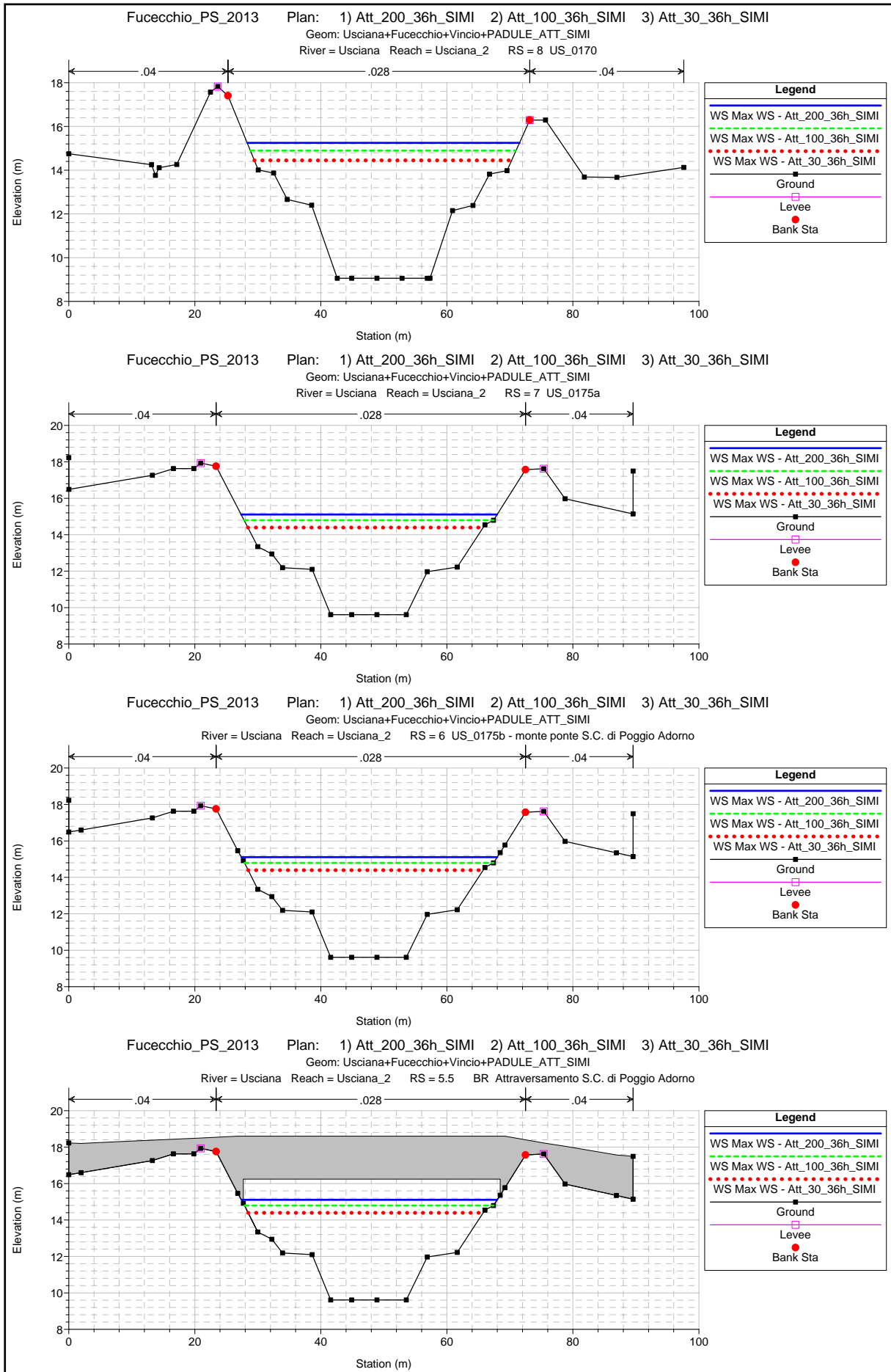


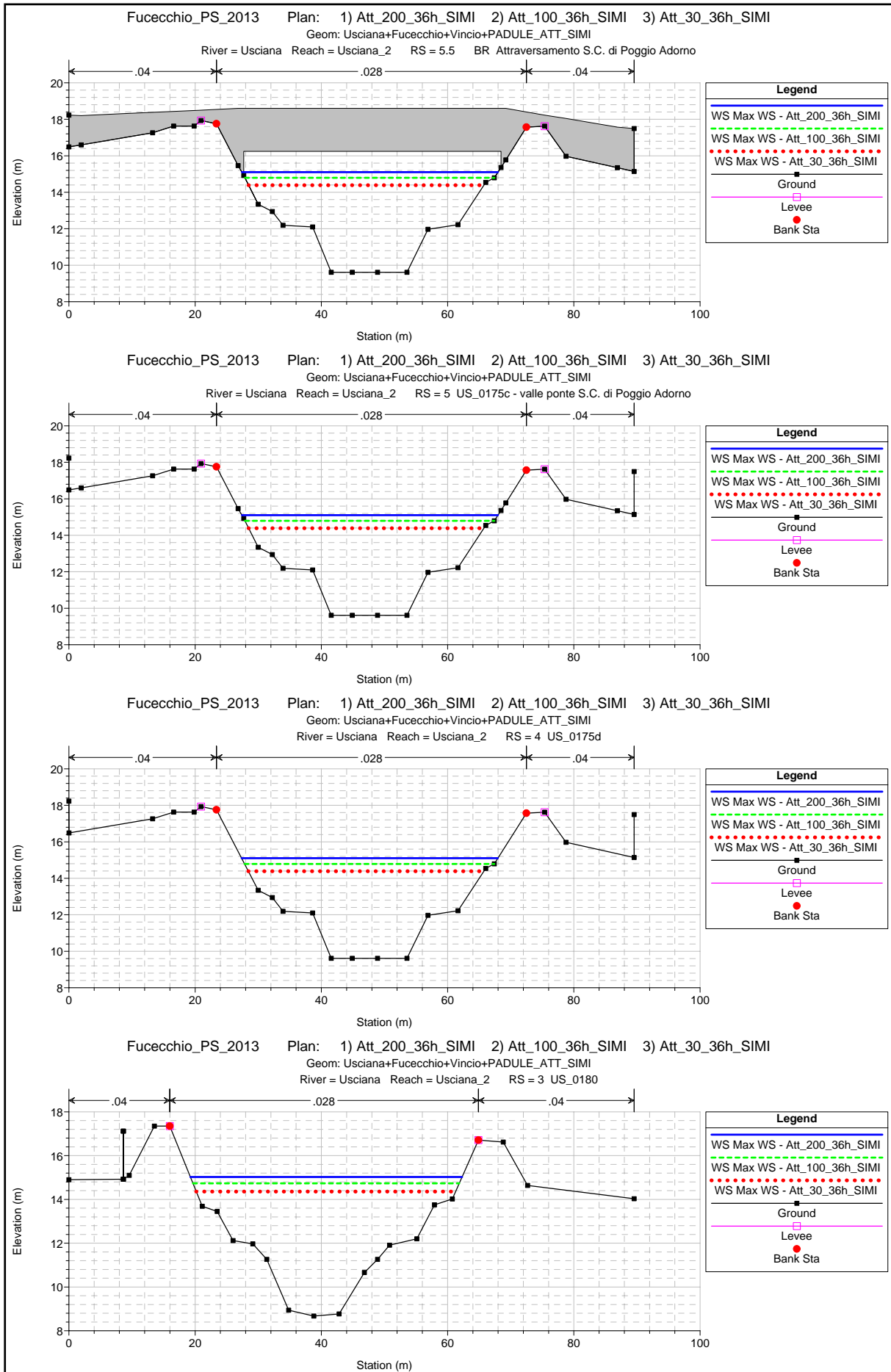


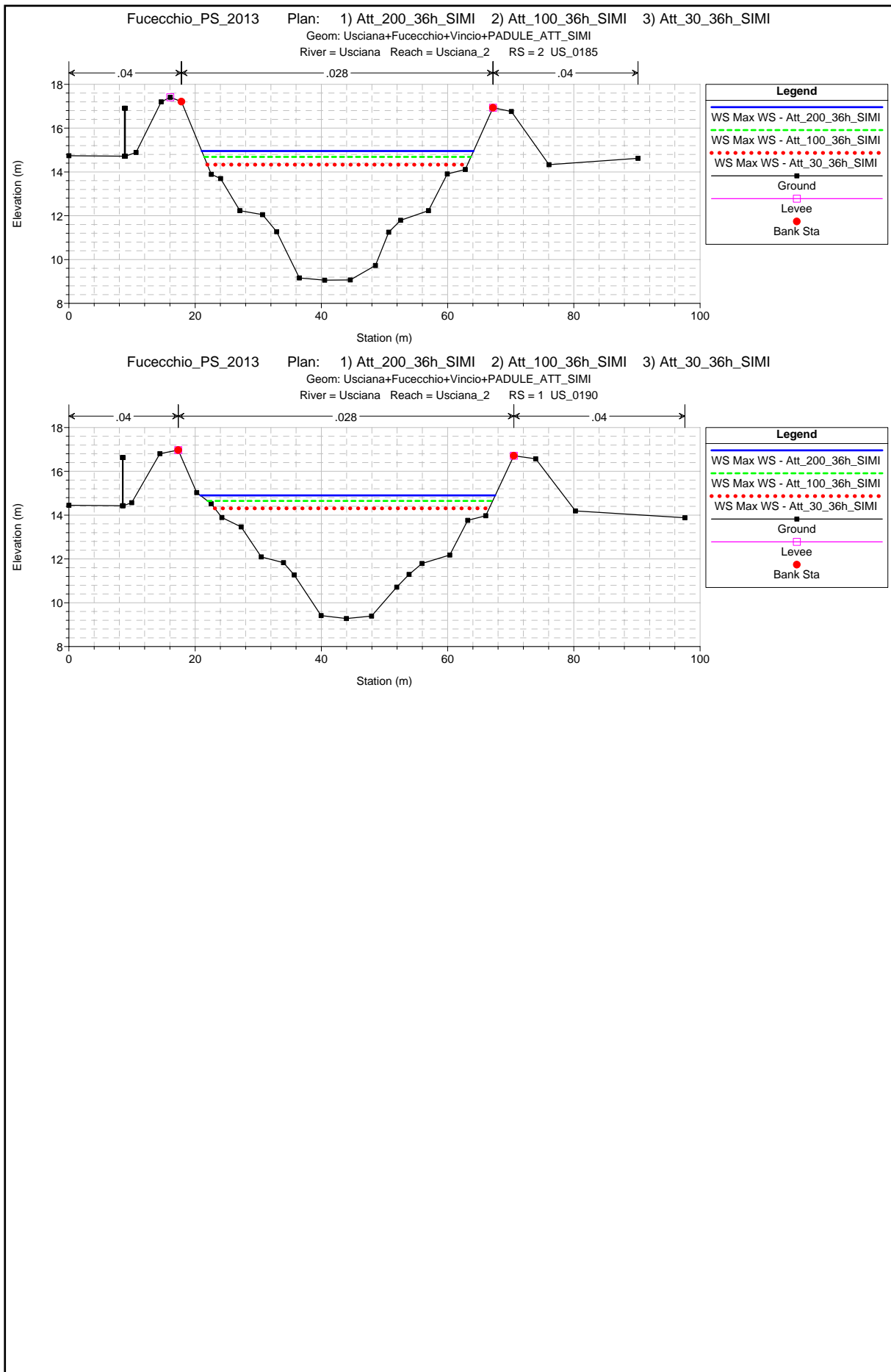












HEC-RAS Profile: Max WS

Reach	River Sta	Profile	Plan	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
Usciana_1	57	Max WS	Att_200_36h_SIMI	538.13	10.99	16.06		16.53	0.001130	3.31	212.57	65.12	0.48
Usciana_1	57	Max WS	Att_100_36h_SIMI	464.61	10.99	15.89		16.28	0.000975	3.00	201.49	65.12	0.45
Usciana_1	57	Max WS	Att_30_36h_SIMI	336.31	10.99	15.66		15.89	0.000631	2.33	186.35	65.12	0.36
Usciana_1	56.95	Max WS	Att_200_36h_SIMI	96.98	10.85	15.96		15.98	0.000039	0.61	207.88	65.12	0.09
Usciana_1	56.95	Max WS	Att_100_36h_SIMI	110.02	10.85	15.73		15.75	0.000061	0.74	192.53	65.12	0.11
Usciana_1	56.95	Max WS	Att_30_36h_SIMI	108.91	10.85	15.58		15.61	0.000072	0.78	171.62	57.85	0.12
Usciana_1	56.94			Lat Struct									
Usciana_1	56.5	Max WS	Att_200_36h_SIMI	26.58	10.20	15.96		15.96	0.000003	0.16	211.68	65.12	0.02
Usciana_1	56.5	Max WS	Att_100_36h_SIMI	27.03	10.20	15.73		15.73	0.000003	0.18	196.34	65.12	0.03
Usciana_1	56.5	Max WS	Att_30_36h_SIMI	24.66	10.20	15.58		15.58	0.000003	0.17	175.45	57.83	0.03
Usciana_1	56.4			Lat Struct									
Usciana_1	56.39			Lat Struct									
Usciana_1	56	Max WS	Att_200_36h_SIMI	23.95	10.76	15.96		15.96	0.000003	0.16	210.92	70.88	0.02
Usciana_1	56	Max WS	Att_100_36h_SIMI	25.00	10.76	15.73		15.73	0.000004	0.18	194.22	70.88	0.03
Usciana_1	56	Max WS	Att_30_36h_SIMI	23.36	10.76	15.58		15.58	0.000004	0.18	183.72	70.88	0.03
Usciana_1	55	Max WS	Att_200_36h_SIMI	23.01	10.76	15.96		15.96	0.000002	0.14	229.04	64.62	0.02
Usciana_1	55	Max WS	Att_100_36h_SIMI	23.73	10.76	15.73		15.73	0.000002	0.15	213.81	64.62	0.02
Usciana_1	55	Max WS	Att_30_36h_SIMI	22.41	10.76	15.58		15.58	0.000003	0.15	204.24	64.62	0.02
Usciana_1	54	Max WS	Att_200_36h_SIMI	26.28	10.66	15.96		15.96	0.000003	0.16	214.89	64.18	0.02
Usciana_1	54	Max WS	Att_100_36h_SIMI	29.07	10.66	15.73		15.73	0.000004	0.19	199.75	64.18	0.03
Usciana_1	54	Max WS	Att_30_36h_SIMI	37.50	10.66	15.58		15.58	0.000008	0.26	190.10	64.18	0.04
Usciana_1	53	Max WS	Att_200_36h_SIMI	50.02	10.85	15.94		15.95	0.000017	0.34	147.76	41.40	0.06
Usciana_1	53	Max WS	Att_100_36h_SIMI	105.33	10.85	15.67		15.70	0.000095	0.77	136.76	39.28	0.13
Usciana_1	53	Max WS	Att_30_36h_SIMI	103.95	10.85	15.51		15.55	0.000106	0.79	130.78	38.42	0.14
Usciana_1	52	Max WS	Att_200_36h_SIMI	49.76	10.85	15.94	11.98	15.95	0.000017	0.34	147.72	41.40	0.06
Usciana_1	52	Max WS	Att_100_36h_SIMI	105.33	10.85	15.67	12.61	15.70	0.000095	0.77	136.72	39.28	0.13
Usciana_1	52	Max WS	Att_30_36h_SIMI	103.95	10.85	15.51	12.60	15.55	0.000106	0.80	130.74	38.42	0.14

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Usciana_1	51.5			Bridge									
Usciana_1	51	Max WS	Att_200_36h_SIMI	49.50	10.85	15.94		15.95	0.000017	0.34	147.71	41.40	0.06
Usciana_1	51	Max WS	Att_100_36h_SIMI	105.33	10.85	15.67		15.70	0.000095	0.77	136.63	39.26	0.13
Usciana_1	51	Max WS	Att_30_36h_SIMI	103.96	10.85	15.51		15.54	0.000106	0.80	130.66	38.41	0.14
Usciana_1	50.9			Lat Struct									
Usciana_1	50.8			Lat Struct									
Usciana_1	50	Max WS	Att_200_36h_SIMI	49.76	10.85	15.94		15.95	0.000017	0.34	147.74	41.40	0.06
Usciana_1	50	Max WS	Att_100_36h_SIMI	105.32	10.85	15.67		15.70	0.000095	0.77	136.65	39.26	0.13
Usciana_1	50	Max WS	Att_30_36h_SIMI	103.96	10.85	15.51		15.54	0.000106	0.80	130.66	38.41	0.14
Usciana_1	49	Max WS	Att_200_36h_SIMI	49.73	10.93	15.94		15.95	0.000015	0.32	188.82	68.24	0.05
Usciana_1	49	Max WS	Att_100_36h_SIMI	105.76	10.93	15.66		15.69	0.000093	0.76	169.97	68.24	0.13
Usciana_1	49	Max WS	Att_30_36h_SIMI	103.16	10.93	15.51		15.54	0.000106	0.79	159.26	68.24	0.14
Usciana_1	48	Max WS	Att_200_36h_SIMI	33.44	10.73	15.94		15.94	0.000006	0.20	211.69	77.39	0.03
Usciana_1	48	Max WS	Att_100_36h_SIMI	76.16	10.73	15.66		15.67	0.000041	0.51	190.13	77.39	0.09
Usciana_1	48	Max WS	Att_30_36h_SIMI	75.68	10.73	15.50		15.52	0.000057	0.58	147.74	56.07	0.10
Usciana_1	47	Max WS	Att_200_36h_SIMI	27.96	10.76	15.94		15.94	0.000005	0.18	195.26	73.09	0.03
Usciana_1	47	Max WS	Att_100_36h_SIMI	61.46	10.76	15.66		15.67	0.000030	0.44	175.07	73.09	0.07
Usciana_1	47	Max WS	Att_30_36h_SIMI	61.14	10.76	15.51		15.52	0.000036	0.47	163.62	73.09	0.08
Usciana_1	46.6	Max WS	Att_200_36h_SIMI	27.14	10.86	15.94		15.94	0.000005	0.19	179.47	73.98	0.03
Usciana_1	46.6	Max WS	Att_100_36h_SIMI	59.91	10.86	15.66		15.67	0.000035	0.47	158.77	73.98	0.08
Usciana_1	46.6	Max WS	Att_30_36h_SIMI	58.97	10.86	15.50		15.51	0.000041	0.49	147.21	73.98	0.09
Usciana_1	46.59			Lat Struct									
Usciana_1	46.57			Lat Struct									
Usciana_1	46	Max WS	Att_200_36h_SIMI	20.23	11.00	15.94		15.94	0.000003	0.14	185.76	75.32	0.02
Usciana_1	46	Max WS	Att_100_36h_SIMI	57.80	11.00	15.65		15.66	0.000034	0.44	164.27	75.32	0.08
Usciana_1	46	Max WS	Att_30_36h_SIMI	77.78	11.00	15.48		15.50	0.000076	0.64	151.07	75.32	0.12

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Usciana_1	45	Max WS	Att_200_36h_SIMI	15.34	10.92	15.94		15.94	0.000002	0.10	188.47	82.09	0.02
Usciana_1	45	Max WS	Att_100_36h_SIMI	78.64	10.92	15.63		15.64	0.000066	0.60	162.70	82.09	0.11
Usciana_1	45	Max WS	Att_30_36h_SIMI	103.29	10.92	15.42		15.46	0.000188	0.98	105.39	35.13	0.18
Usciana_1	44	Max WS	Att_200_36h_SIMI	12.86	11.26	15.94		15.94	0.000002	0.11	120.70	38.90	0.02
Usciana_1	44	Max WS	Att_100_36h_SIMI	79.44	11.26	15.60		15.62	0.000112	0.74	107.61	37.48	0.14
Usciana_1	44	Max WS	Att_30_36h_SIMI	103.29	11.26	15.36		15.41	0.000241	1.05	98.81	36.49	0.20
Usciana_1	43	Max WS	Att_200_36h_SIMI	12.73	11.26	15.94	11.75	15.94	0.000002	0.11	120.65	38.89	0.02
Usciana_1	43	Max WS	Att_100_36h_SIMI	79.44	11.26	15.60	12.78	15.62	0.000112	0.74	107.55	37.46	0.14
Usciana_1	43	Max WS	Att_30_36h_SIMI	103.29	11.26	15.36	13.04	15.41	0.000242	1.05	98.72	36.47	0.20
Usciana_1	42.5			Bridge									
Usciana_1	42	Max WS	Att_200_36h_SIMI	12.46	11.26	15.94		15.94	0.000002	0.10	120.64	38.89	0.02
Usciana_1	42	Max WS	Att_100_36h_SIMI	79.44	11.26	15.59		15.62	0.000112	0.74	107.49	37.46	0.14
Usciana_1	42	Max WS	Att_30_36h_SIMI	103.29	11.26	15.35		15.41	0.000243	1.05	98.59	36.46	0.20
Usciana_1	41.9			Lat Struct									
Usciana_1	41.8			Lat Struct									
Usciana_1	41	Max WS	Att_200_36h_SIMI	12.46	11.26	15.94		15.94	0.000002	0.10	120.69	38.90	0.02
Usciana_1	41	Max WS	Att_100_36h_SIMI	79.44	11.26	15.59		15.62	0.000112	0.74	107.51	37.47	0.14
Usciana_1	41	Max WS	Att_30_36h_SIMI	103.29	11.26	15.35		15.41	0.000243	1.05	98.59	36.47	0.20
Usciana_1	40	Max WS	Att_200_36h_SIMI	10.71	10.81	15.94		15.94	0.000001	0.07	191.89	78.30	0.01
Usciana_1	40	Max WS	Att_100_36h_SIMI	79.59	10.81	15.57		15.59	0.000069	0.62	163.06	78.30	0.11
Usciana_1	40	Max WS	Att_30_36h_SIMI	103.28	10.81	15.30		15.35	0.000200	0.99	114.60	55.32	0.19
Usciana_1	39	Max WS	Att_200_36h_SIMI	7.42	10.97	15.94		15.94	0.000000	0.05	183.80	78.06	0.01
Usciana_1	39	Max WS	Att_100_36h_SIMI	62.73	10.97	15.57		15.59	0.000044	0.50	155.44	78.06	0.09
Usciana_1	39	Max WS	Att_30_36h_SIMI	101.44	10.97	15.27		15.31	0.000170	0.92	131.74	78.06	0.17
Usciana_1	38	Max WS	Att_200_36h_SIMI	4.73	10.70	15.94		15.94	0.000000	0.03	202.55	82.39	0.01
Usciana_1	38	Max WS	Att_100_36h_SIMI	55.87	10.70	15.57		15.58	0.000034	0.44	147.17	64.73	0.08
Usciana_1	38	Max WS	Att_30_36h_SIMI	102.23	10.70	15.23		15.27	0.000173	0.93	125.98	61.48	0.17



HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Usciana_1	37	Max WS	Att_200_36h_SIMI	3.45	10.77	15.94		15.94	0.000000	0.02	185.64	78.63	0.00
Usciana_1	37	Max WS	Att_100_36h_SIMI	40.49	10.77	15.57		15.58	0.000020	0.34	127.42	55.14	0.06
Usciana_1	37	Max WS	Att_30_36h_SIMI	103.05	10.77	15.17		15.22	0.000207	1.01	101.85	34.90	0.19
Usciana_1	36	Max WS	Att_200_36h_SIMI	5.27	10.46	15.94		15.94	0.000000	0.03	194.81	81.99	0.01
Usciana_1	36	Max WS	Att_100_36h_SIMI	47.43	10.46	15.57		15.57	0.000025	0.38	142.01	60.10	0.07
Usciana_1	36	Max WS	Att_30_36h_SIMI	103.05	10.46	15.12		15.17	0.000207	1.02	101.50	34.57	0.19
Usciana_1	35	Max WS	Att_200_36h_SIMI	16.18	10.03	15.94		15.94	0.000002	0.11	178.52	75.25	0.02
Usciana_1	35	Max WS	Att_100_36h_SIMI	87.13	10.03	15.52		15.55	0.000089	0.72	131.24	52.82	0.13
Usciana_1	35	Max WS	Att_30_36h_SIMI	103.28	10.03	15.07		15.12	0.000204	1.01	102.02	34.27	0.19
Usciana_1	34	Max WS	Att_200_36h_SIMI	18.13	10.80	15.94		15.94	0.000003	0.14	128.19	37.83	0.02
Usciana_1	34	Max WS	Att_100_36h_SIMI	88.18	10.80	15.51		15.54	0.000115	0.79	112.29	36.25	0.14
Usciana_1	34	Max WS	Att_30_36h_SIMI	103.28	10.80	15.05		15.11	0.000247	1.07	96.11	34.57	0.21
Usciana_1	33	Max WS	Att_200_36h_SIMI	18.17	10.80	15.94	11.55	15.94	0.000003	0.14	128.26	37.83	0.02
Usciana_1	33	Max WS	Att_100_36h_SIMI	88.18	10.80	15.51	12.56	15.54	0.000115	0.78	112.36	36.24	0.14
Usciana_1	33	Max WS	Att_30_36h_SIMI	103.28	10.80	15.05	12.72	15.11	0.000247	1.07	96.15	34.55	0.21
Usciana_1	32.5			Bridge									
Usciana_1	32	Max WS	Att_200_36h_SIMI	18.17	10.80	15.94		15.94	0.000003	0.14	128.26	37.83	0.02
Usciana_1	32	Max WS	Att_100_36h_SIMI	88.17	10.80	15.50		15.54	0.000115	0.79	112.27	36.23	0.14
Usciana_1	32	Max WS	Att_30_36h_SIMI	103.28	10.80	15.04		15.10	0.000248	1.08	95.98	34.54	0.21
Usciana_1	31.9			Lat Struct									
Usciana_1	31.8			Lat Struct									
Usciana_1	31	Max WS	Att_200_36h_SIMI	18.13	10.80	15.94		15.94	0.000003	0.14	128.19	37.83	0.02
Usciana_1	31	Max WS	Att_100_36h_SIMI	88.14	10.80	15.50		15.54	0.000115	0.79	112.17	36.24	0.14
Usciana_1	31	Max WS	Att_30_36h_SIMI	103.28	10.80	15.04		15.10	0.000249	1.08	95.86	34.54	0.21
Usciana_1	30	Max WS	Att_200_36h_SIMI	18.13	9.54	15.94		15.94	0.000002	0.11	194.24	81.34	0.02
Usciana_1	30	Max WS	Att_100_36h_SIMI	88.09	9.54	15.49		15.51	0.000075	0.68	129.48	37.13	0.12
Usciana_1	30	Max WS	Att_30_36h_SIMI	103.28	9.54	15.01		15.05	0.000156	0.92	112.14	35.34	0.17

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Usciana_1	29	Max WS	Att_200_36h_SIMI	22.34	9.80	15.93		15.94	0.000003	0.15	168.63	61.72	0.02
Usciana_1	29	Max WS	Att_100_36h_SIMI	61.56	9.80	15.47		15.48	0.000039	0.48	128.13	38.38	0.08
Usciana_1	29	Max WS	Att_30_36h_SIMI	103.28	9.80	14.97		15.01	0.000175	0.95	109.19	36.26	0.17
Usciana_1	28	Max WS	Att_200_36h_SIMI	24.74	10.23	15.93		15.93	0.000004	0.17	166.93	80.46	0.03
Usciana_1	28	Max WS	Att_100_36h_SIMI	61.54	10.23	15.46		15.48	0.000042	0.49	124.35	37.75	0.09
Usciana_1	28	Max WS	Att_30_36h_SIMI	103.28	10.23	14.93		14.98	0.000195	0.99	104.63	35.59	0.18
Usciana_1	27.9		Lat Struct										
Usciana_1	27.5	Max WS	Att_200_36h_SIMI	23.37	10.16	15.93		15.93	0.000004	0.17	141.62	39.51	0.03
Usciana_1	27.5	Max WS	Att_100_36h_SIMI	61.54	10.16	15.46		15.47	0.000043	0.50	123.43	37.64	0.09
Usciana_1	27.5	Max WS	Att_30_36h_SIMI	103.28	10.16	14.91		14.96	0.000203	1.00	103.28	35.45	0.19
Usciana_1	27.49		Lat Struct										
Usciana_1	27	Max WS	Att_200_36h_SIMI	23.24	10.08	15.93		15.93	0.000004	0.17	140.80	39.39	0.03
Usciana_1	27	Max WS	Att_100_36h_SIMI	61.53	10.08	15.46		15.47	0.000044	0.50	122.52	37.53	0.09
Usciana_1	27	Max WS	Att_30_36h_SIMI	103.28	10.08	14.89		14.94	0.000213	1.01	101.90	35.32	0.19
Usciana_1	26	Max WS	Att_200_36h_SIMI	25.06	10.15	15.93		15.93	0.000004	0.15	187.97	64.85	0.03
Usciana_1	26	Max WS	Att_100_36h_SIMI	61.51	10.15	15.45		15.46	0.000041	0.49	126.32	38.28	0.09
Usciana_1	26	Max WS	Att_30_36h_SIMI	103.28	10.15	14.85		14.90	0.000200	0.99	104.04	35.82	0.19
Usciana_1	25	Max WS	Att_200_36h_SIMI	34.80	9.88	15.93		15.93	0.000004	0.18	238.85	91.03	0.03
Usciana_1	25	Max WS	Att_100_36h_SIMI	72.55	9.88	15.44		15.45	0.000033	0.46	194.49	91.03	0.08
Usciana_1	25	Max WS	Att_30_36h_SIMI	103.28	9.88	14.83		14.87	0.000142	0.88	117.68	37.36	0.16
Usciana_1	24	Max WS	Att_200_36h_SIMI	37.25	10.05	15.93		15.93	0.000006	0.21	208.66	79.15	0.03
Usciana_1	24	Max WS	Att_100_36h_SIMI	102.92	10.05	15.40		15.43	0.000094	0.74	147.85	60.86	0.13
Usciana_1	24	Max WS	Att_30_36h_SIMI	103.28	10.05	14.79		14.84	0.000178	0.93	111.30	38.96	0.18
Usciana_1	23	Max WS	Att_200_36h_SIMI	52.61	9.88	15.92		15.92	0.000012	0.30	221.80	98.48	0.05
Usciana_1	23	Max WS	Att_100_36h_SIMI	117.29	9.88	15.36		15.39	0.000119	0.86	136.01	38.69	0.15
Usciana_1	23	Max WS	Att_30_36h_SIMI	103.28	9.88	14.76		14.80	0.000154	0.91	113.70	36.47	0.16
Usciana_1	22	Max WS	Att_200_36h_SIMI	113.23	9.86	15.87		15.90	0.000073	0.71	164.07	57.46	0.12
Usciana_1	22	Max WS	Att_100_36h_SIMI	117.18	9.86	15.32		15.36	0.000125	0.87	135.04	39.80	0.15

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Usciana_1	22	Max WS	Att_30_36h_SIMI	103.28	9.86	14.71		14.75	0.000167	0.93	111.66	37.27	0.17
Usciana_1	21	Max WS	Att_200_36h_SIMI	194.32	9.77	15.77		15.83	0.000187	1.09	203.57	71.53	0.19
Usciana_1	21	Max WS	Att_100_36h_SIMI	132.60	9.77	15.27		15.31	0.000147	0.89	168.25	70.36	0.16
Usciana_1	21	Max WS	Att_30_36h_SIMI	103.28	9.77	14.67		14.71	0.000193	0.93	111.45	41.55	0.18
Usciana_2	20	Max WS	Att_200_36h_SIMI	215.03	9.77	15.77		15.84	0.000228	1.21	203.57	71.53	0.21
Usciana_2	20	Max WS	Att_100_36h_SIMI	160.77	9.77	15.27		15.33	0.000216	1.08	168.25	70.36	0.20
Usciana_2	20	Max WS	Att_30_36h_SIMI	107.40	9.77	14.67		14.71	0.000209	0.96	111.45	41.55	0.19
Usciana_2	19.6	Max WS	Att_200_36h_SIMI	215.03	10.00	15.74		15.83	0.000252	1.33	162.19	42.58	0.22
Usciana_2	19.6	Max WS	Att_100_36h_SIMI	160.76	10.00	15.26		15.32	0.000209	1.13	141.83	41.27	0.20
Usciana_2	19.6	Max WS	Att_30_36h_SIMI	107.40	10.00	14.66		14.71	0.000162	0.91	117.83	39.35	0.17
Usciana_2	19.5	Max WS	Att_200_36h_SIMI	215.03	10.16	15.73		15.82	0.000238	1.32	162.43	40.52	0.21
Usciana_2	19.5	Max WS	Att_100_36h_SIMI	160.75	10.16	15.25		15.32	0.000194	1.12	143.23	39.66	0.19
Usciana_2	19.5	Max WS	Att_30_36h_SIMI	107.40	10.16	14.66		14.70	0.000145	0.89	120.18	37.96	0.16
Usciana_2	19.49			Lat Struct									
Usciana_2	19.3	Max WS	Att_200_36h_SIMI	228.99	10.22	15.70		15.81	0.000272	1.42	161.14	39.69	0.23
Usciana_2	19.3	Max WS	Att_100_36h_SIMI	169.80	10.22	15.24		15.31	0.000215	1.19	142.72	38.91	0.20
Usciana_2	19.3	Max WS	Att_30_36h_SIMI	107.40	10.22	14.66		14.70	0.000141	0.89	120.71	37.34	0.16
Usciana_2	19	Max WS	Att_200_36h_SIMI	228.99	10.45	15.69		15.79	0.000293	1.46	156.71	36.20	0.22
Usciana_2	19	Max WS	Att_100_36h_SIMI	169.80	10.45	15.22		15.30	0.000226	1.21	140.11	35.67	0.20
Usciana_2	19	Max WS	Att_30_36h_SIMI	107.40	10.45	14.65		14.69	0.000142	0.90	119.96	34.49	0.15
Usciana_2	18	Max WS	Att_200_36h_SIMI	228.99	10.45	15.68	12.55	15.79	0.000293	1.46	156.69	36.20	0.22
Usciana_2	18	Max WS	Att_100_36h_SIMI	169.80	10.45	15.22	12.20	15.30	0.000226	1.21	140.11	35.67	0.20
Usciana_2	18	Max WS	Att_30_36h_SIMI	107.40	10.45	14.65	11.79	14.69	0.000142	0.90	119.97	34.48	0.15
Usciana_2	17.5			Bridge									
Usciana_2	17	Max WS	Att_200_36h_SIMI	228.99	10.45	15.67		15.78	0.000297	1.47	156.13	36.18	0.23
Usciana_2	17	Max WS	Att_100_36h_SIMI	169.80	10.45	15.21		15.29	0.000227	1.21	139.79	35.66	0.20
Usciana_2	17	Max WS	Att_30_36h_SIMI	107.40	10.45	14.65		14.69	0.000143	0.90	119.82	34.47	0.15

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Usciana_2	16	Max WS	Att_200_36h_SIMI	228.99	10.45	15.67		15.78	0.000297	1.47	156.03	36.18	0.23
Usciana_2	16	Max WS	Att_100_36h_SIMI	169.80	10.45	15.21		15.29	0.000228	1.22	139.72	35.66	0.20
Usciana_2	16	Max WS	Att_30_36h_SIMI	107.40	10.45	14.65		14.69	0.000143	0.90	119.77	34.46	0.15
Usciana_2	15.5	Max WS	Att_200_36h_SIMI	228.99	10.00	15.57	12.95	15.70	0.000415	1.59	144.23	41.87	0.27
Usciana_2	15.5	Max WS	Att_100_36h_SIMI	169.80	10.00	15.14	12.36	15.23	0.000336	1.34	126.32	40.29	0.24
Usciana_2	15.5	Max WS	Att_30_36h_SIMI	107.40	10.00	14.60	11.78	14.65	0.000231	1.02	105.07	38.33	0.20
Usciana_2	15.4			Inl Struct									
Usciana_2	15	Max WS	Att_200_36h_SIMI	228.99	9.25	15.51		15.61	0.000275	1.39	165.28	42.24	0.22
Usciana_2	15	Max WS	Att_100_36h_SIMI	169.80	9.25	15.09		15.16	0.000208	1.15	147.80	40.64	0.19
Usciana_2	15	Max WS	Att_30_36h_SIMI	107.40	9.25	14.57		14.60	0.000129	0.85	127.07	38.65	0.15
Usciana_2	14	Max WS	Att_200_36h_SIMI	228.99	9.65	15.41		15.53	0.000350	1.49	153.18	42.44	0.25
Usciana_2	14	Max WS	Att_100_36h_SIMI	169.80	9.65	15.01		15.09	0.000270	1.24	136.55	41.13	0.22
Usciana_2	14	Max WS	Att_30_36h_SIMI	107.40	9.65	14.52		14.56	0.000172	0.92	116.59	39.50	0.17
Usciana_2	13	Max WS	Att_200_36h_SIMI	228.99	9.65	15.41	12.40	15.52	0.000350	1.50	153.10	42.44	0.25
Usciana_2	13	Max WS	Att_100_36h_SIMI	169.80	9.65	15.01	11.87	15.09	0.000270	1.24	136.50	41.13	0.22
Usciana_2	13	Max WS	Att_30_36h_SIMI	107.40	9.65	14.52	11.31	14.56	0.000172	0.92	116.55	39.50	0.17
Usciana_2	12.5			Bridge									
Usciana_2	12	Max WS	Att_200_36h_SIMI	228.99	9.65	15.41		15.52	0.000351	1.50	152.95	42.43	0.25
Usciana_2	12	Max WS	Att_100_36h_SIMI	169.80	9.65	15.01		15.09	0.000271	1.25	136.37	41.12	0.22
Usciana_2	12	Max WS	Att_30_36h_SIMI	107.40	9.65	14.52		14.56	0.000173	0.92	116.49	39.49	0.17
Usciana_2	11	Max WS	Att_200_36h_SIMI	228.99	9.65	15.40		15.52	0.000352	1.50	152.86	42.42	0.25
Usciana_2	11	Max WS	Att_100_36h_SIMI	169.80	9.65	15.01		15.09	0.000271	1.25	136.32	41.11	0.22
Usciana_2	11	Max WS	Att_30_36h_SIMI	107.40	9.65	14.52		14.56	0.000173	0.92	116.46	39.49	0.17
Usciana_2	10	Max WS	Att_200_36h_SIMI	228.99	8.93	15.38		15.47	0.000259	1.35	169.80	43.05	0.22
Usciana_2	10	Max WS	Att_100_36h_SIMI	169.80	8.93	14.99		15.05	0.000192	1.11	153.28	41.82	0.18
Usciana_2	10	Max WS	Att_30_36h_SIMI	107.40	8.93	14.50		14.54	0.000116	0.81	133.39	40.29	0.14
Usciana_2	9	Max WS	Att_200_36h_SIMI	228.99	9.05	15.32		15.42	0.000281	1.39	164.94	42.70	0.23
Usciana_2	9	Max WS	Att_100_36h_SIMI	169.80	9.05	14.95		15.02	0.000208	1.14	149.14	41.60	0.19

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Usciana_2	9	Max WS	Att_30_36h_SIMI	107.40	9.05	14.48		14.51	0.000125	0.83	129.95	40.23	0.15
Usciana_2	8	Max WS	Att_200_36h_SIMI	228.99	9.06	15.25		15.35	0.000280	1.38	165.57	43.22	0.23
Usciana_2	8	Max WS	Att_100_36h_SIMI	169.80	9.06	14.90		14.96	0.000205	1.13	150.39	42.16	0.19
Usciana_2	8	Max WS	Att_30_36h_SIMI	107.40	9.06	14.45		14.48	0.000121	0.81	131.82	40.83	0.14
Usciana_2	7	Max WS	Att_200_36h_SIMI	228.99	9.61	15.11		15.24	0.000439	1.63	140.49	40.64	0.28
Usciana_2	7	Max WS	Att_100_36h_SIMI	169.79	9.61	14.80		14.89	0.000318	1.33	127.92	39.59	0.24
Usciana_2	7	Max WS	Att_30_36h_SIMI	107.40	9.61	14.39		14.44	0.000181	0.95	112.46	37.34	0.18
Usciana_2	6	Max WS	Att_200_36h_SIMI	228.99	9.61	15.11	12.67	15.24	0.000440	1.63	140.33	40.60	0.28
Usciana_2	6	Max WS	Att_100_36h_SIMI	169.80	9.61	14.79	12.31	14.88	0.000318	1.33	127.80	39.52	0.24
Usciana_2	6	Max WS	Att_30_36h_SIMI	107.40	9.61	14.39	11.48	14.44	0.000181	0.96	112.39	37.29	0.18
Usciana_2	5.5			Bridge									
Usciana_2	5	Max WS	Att_200_36h_SIMI	228.99	9.61	15.10		15.24	0.000442	1.63	140.13	40.58	0.28
Usciana_2	5	Max WS	Att_100_36h_SIMI	169.79	9.61	14.79		14.88	0.000319	1.33	127.67	39.51	0.24
Usciana_2	5	Max WS	Att_30_36h_SIMI	107.40	9.61	14.39		14.44	0.000181	0.96	112.32	37.28	0.18
Usciana_2	4	Max WS	Att_200_36h_SIMI	228.99	9.61	15.10		15.24	0.000443	1.63	140.11	40.60	0.28
Usciana_2	4	Max WS	Att_100_36h_SIMI	169.79	9.61	14.79		14.88	0.000320	1.33	127.66	39.57	0.24
Usciana_2	4	Max WS	Att_30_36h_SIMI	107.40	9.61	14.39		14.43	0.000181	0.96	112.31	37.32	0.18
Usciana_2	3	Max WS	Att_200_36h_SIMI	228.99	8.67	15.02		15.14	0.000353	1.50	153.07	43.04	0.25
Usciana_2	3	Max WS	Att_100_36h_SIMI	169.79	8.67	14.73		14.81	0.000249	1.21	140.79	42.19	0.21
Usciana_2	3	Max WS	Att_30_36h_SIMI	107.40	8.67	14.36		14.40	0.000142	0.86	125.09	41.08	0.16
Usciana_2	2	Max WS	Att_200_36h_SIMI	228.99	9.06	14.95		15.07	0.000373	1.52	150.29	43.07	0.26
Usciana_2	2	Max WS	Att_100_36h_SIMI	169.79	9.06	14.69		14.76	0.000259	1.22	138.90	42.27	0.22
Usciana_2	2	Max WS	Att_30_36h_SIMI	107.40	9.06	14.33		14.37	0.000146	0.87	124.03	41.21	0.16
Usciana_2	1	Max WS	Att_200_36h_SIMI	188.64	9.28	14.90	12.27	14.98	0.000291	1.28	147.76	46.72	0.23
Usciana_2	1	Max WS	Att_100_36h_SIMI	128.03	9.28	14.65	11.68	14.69	0.000168	0.94	136.26	45.18	0.17
Usciana_2	1	Max WS	Att_30_36h_SIMI	99.14	9.28	14.31	11.37	14.34	0.000141	0.82	121.22	43.48	0.16

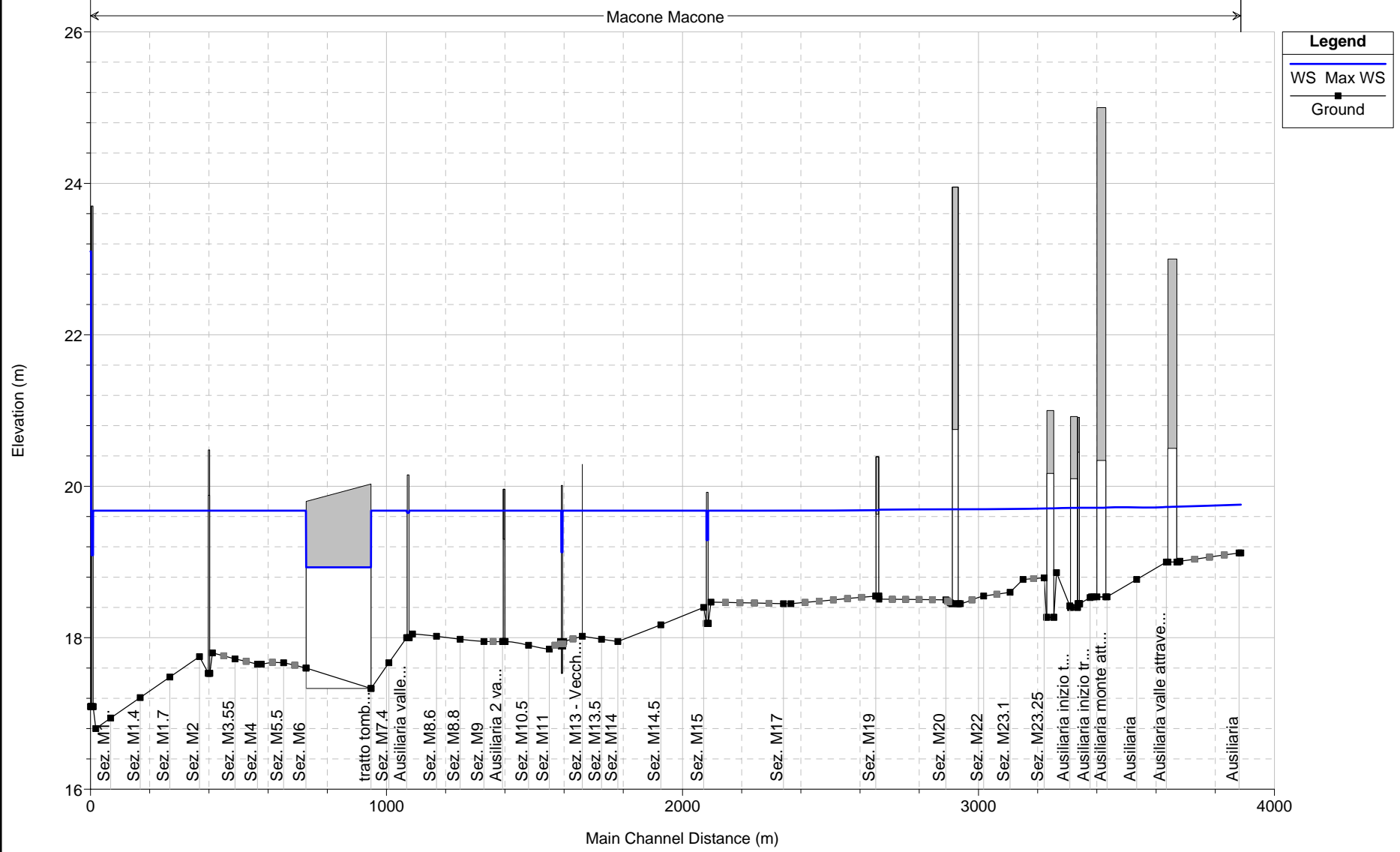
# **Scenario D**

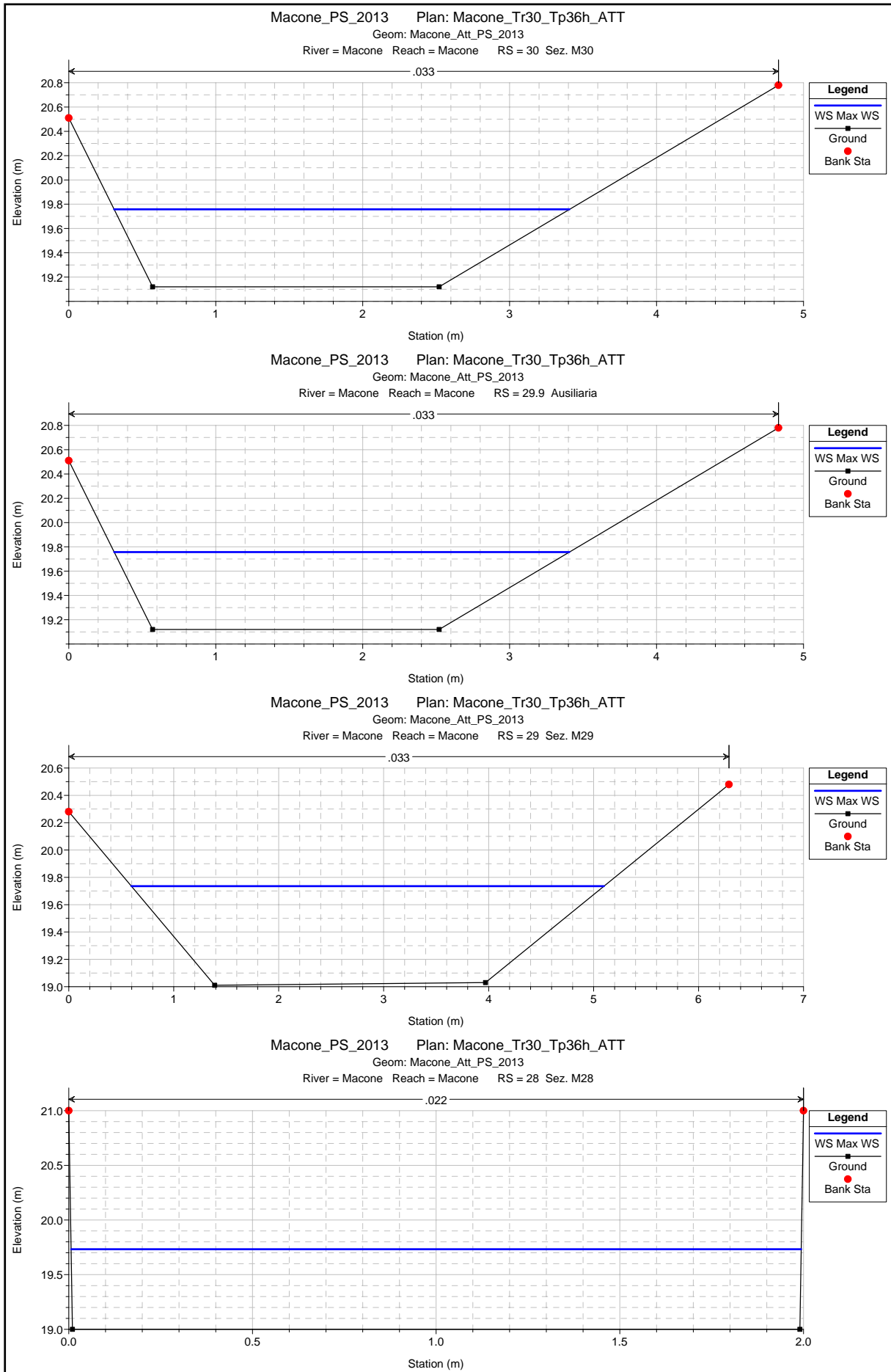
**Tr 30 anni**

## **RIO MACONE**

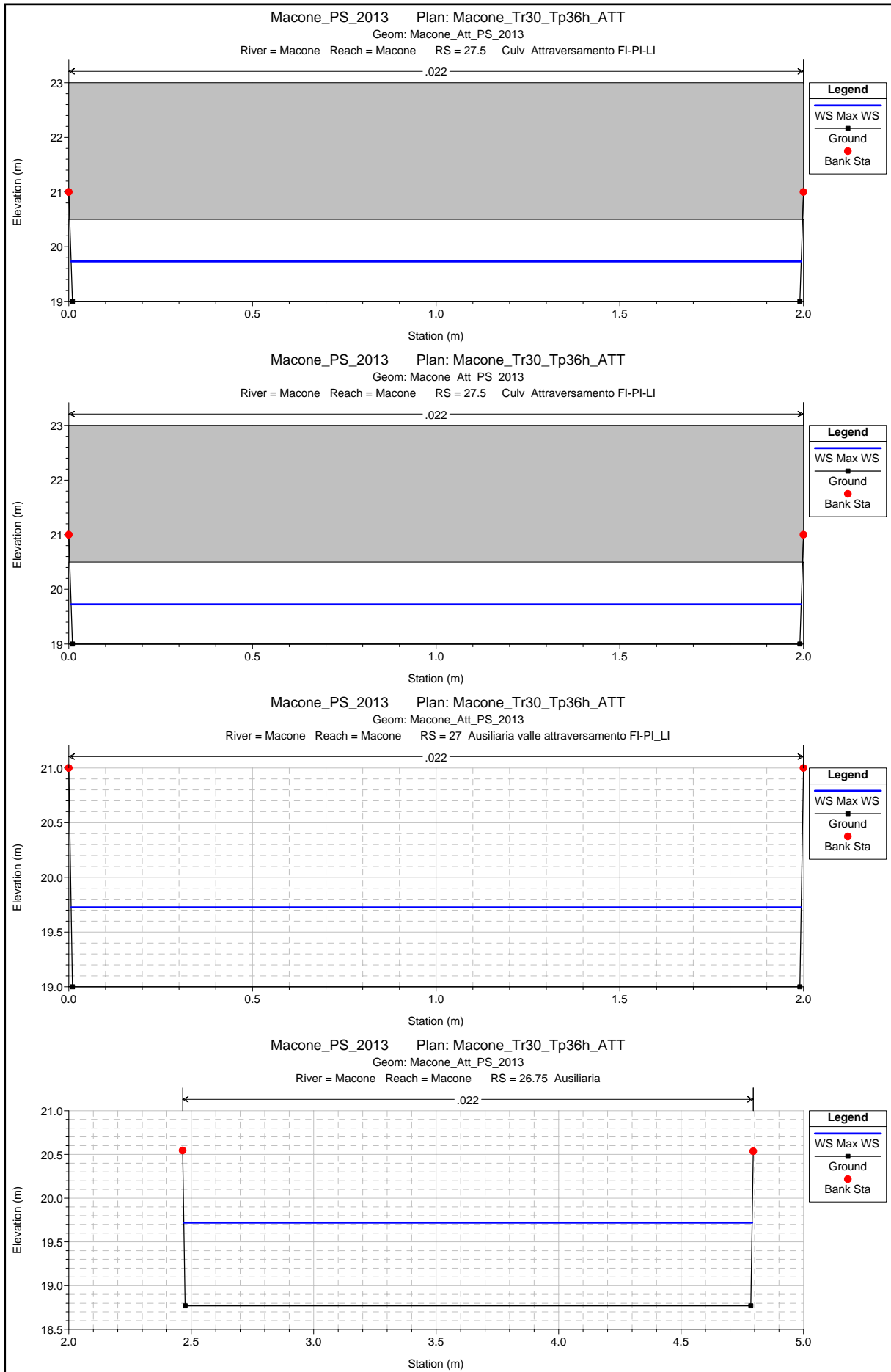
- **Profili**
- **Sezioni**
- **Tabelle di Output**

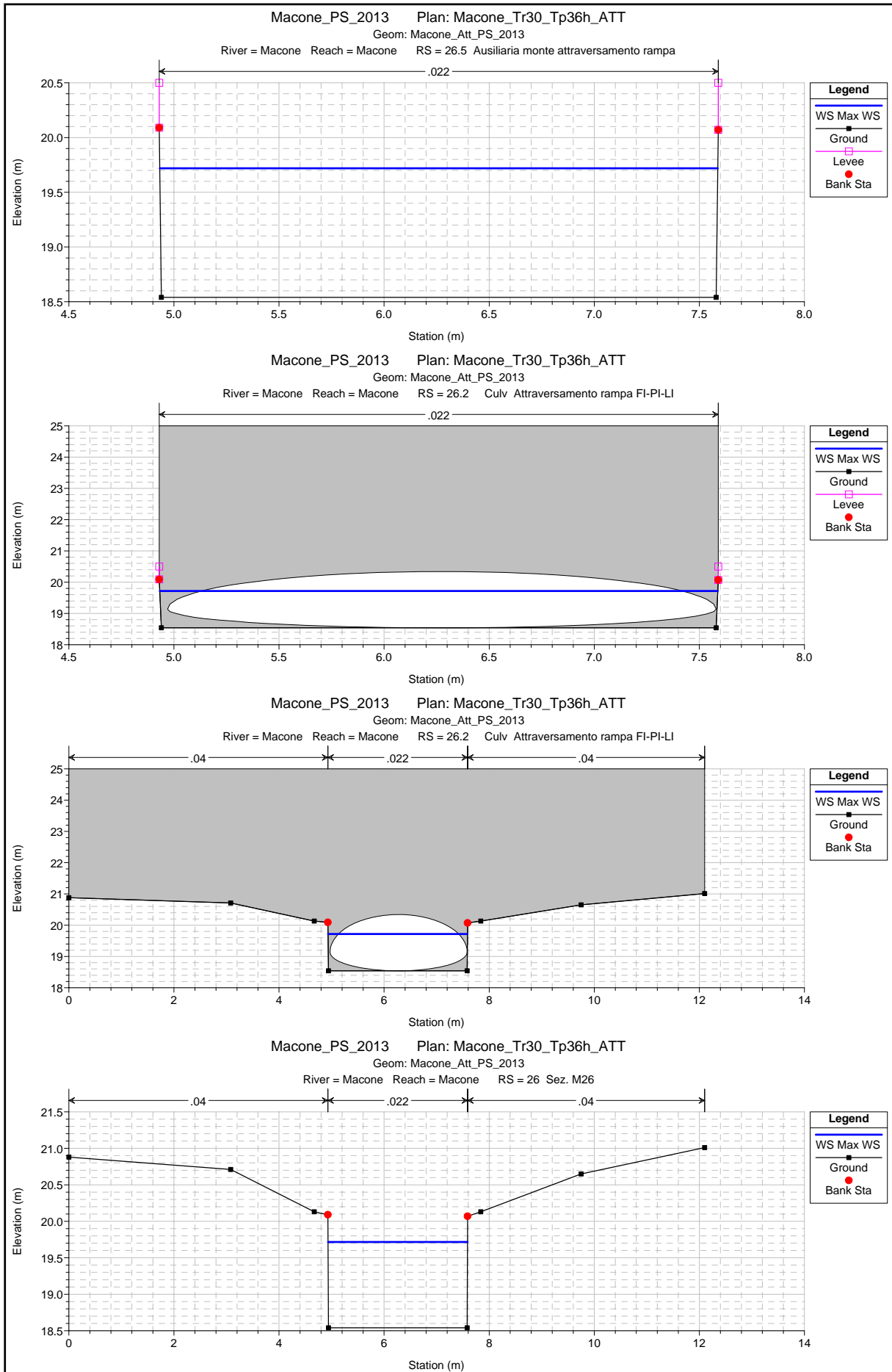
Macone\_PS\_2013 Plan: Macone\_Tr30\_Tp36h\_ATT  
 Geom: Macone\_Att\_PS\_2013

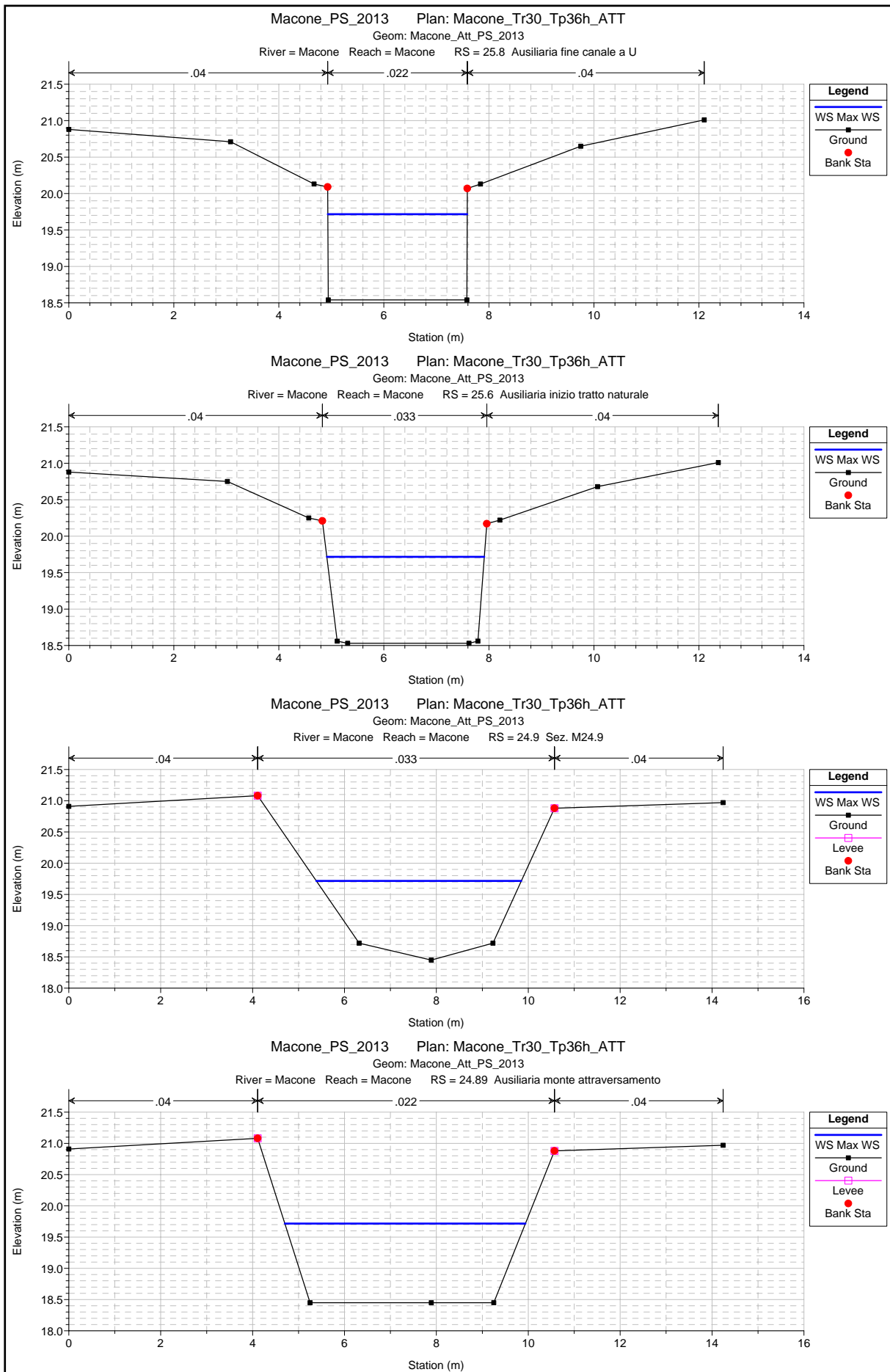


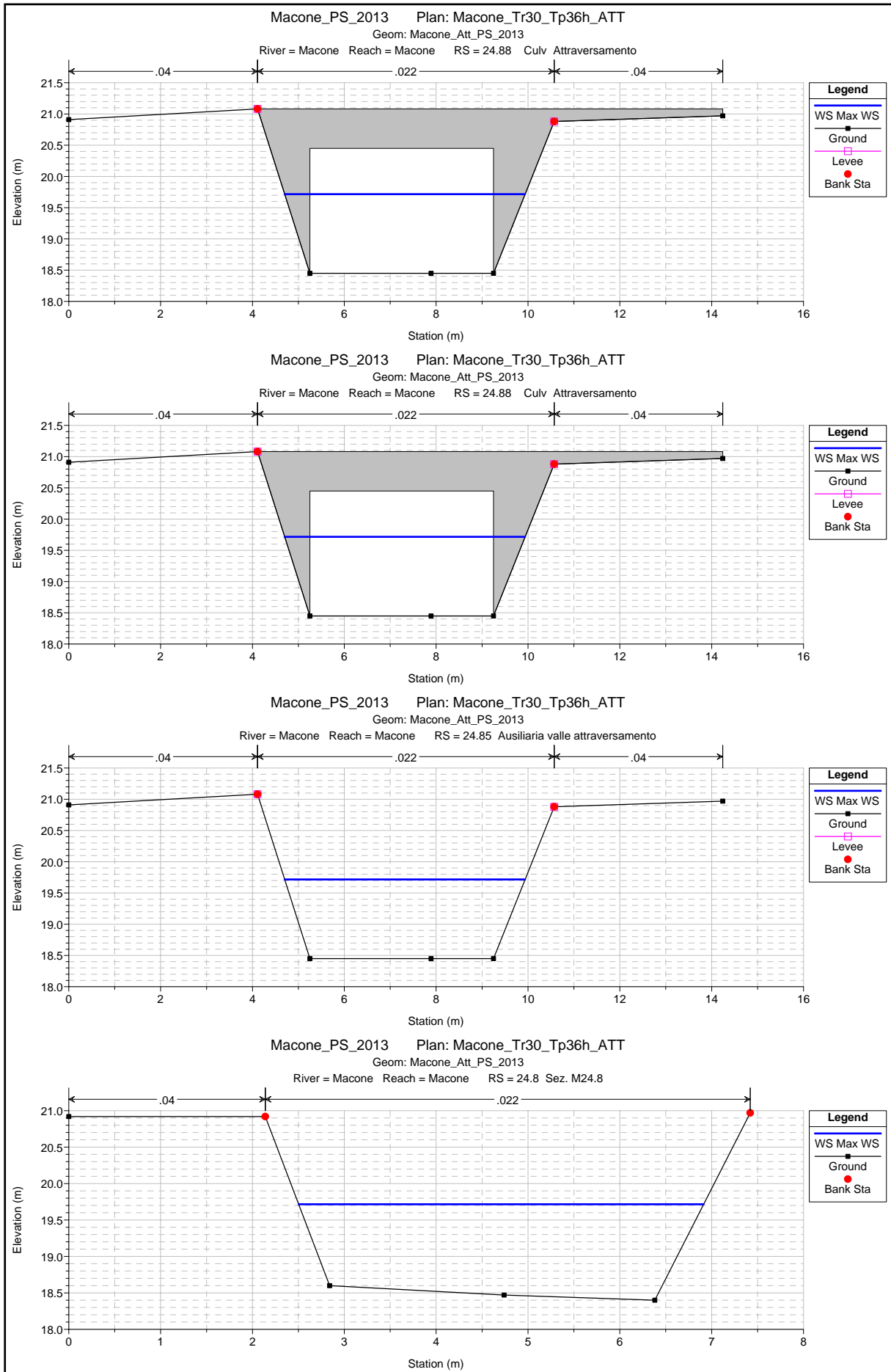


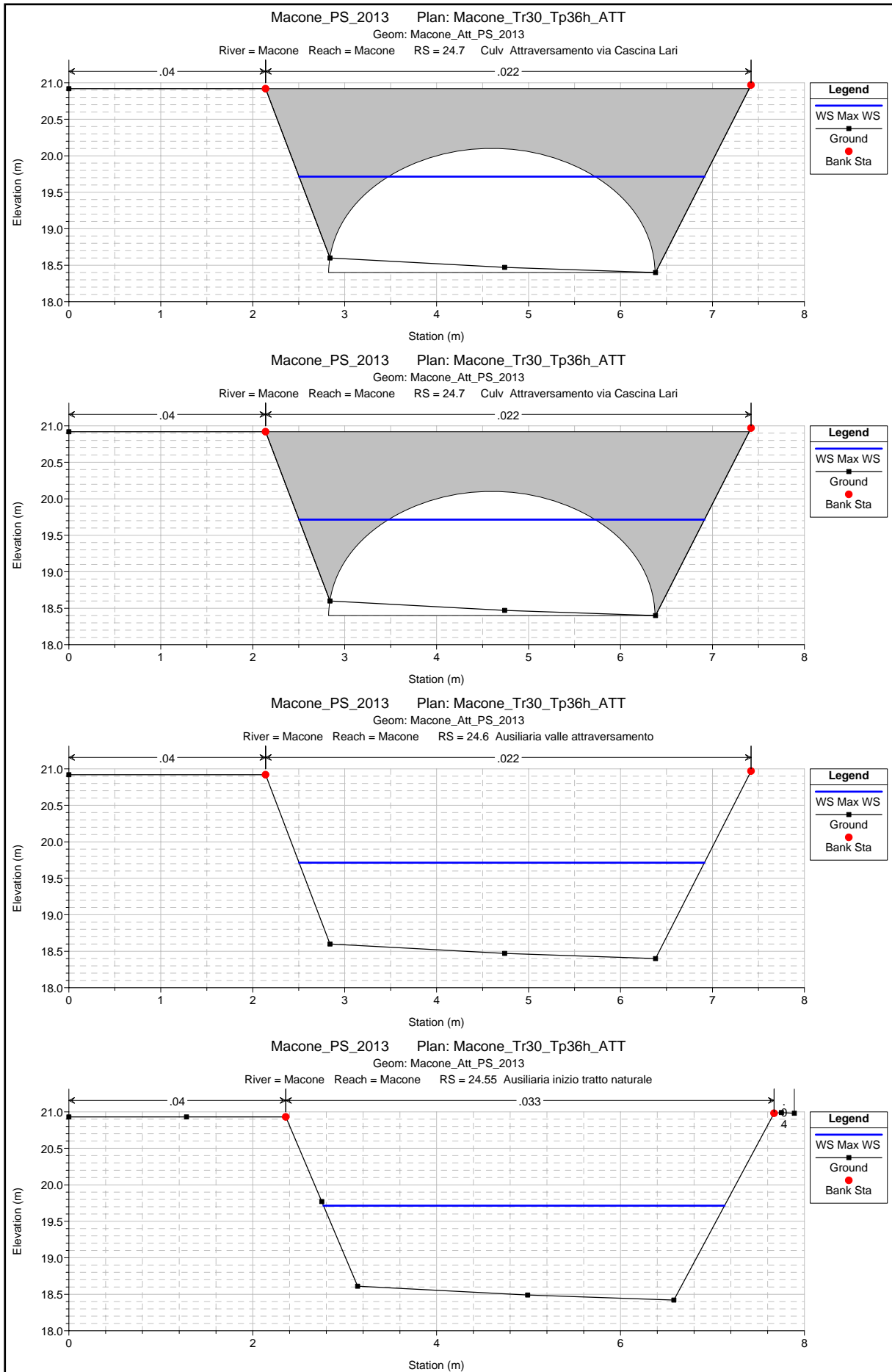


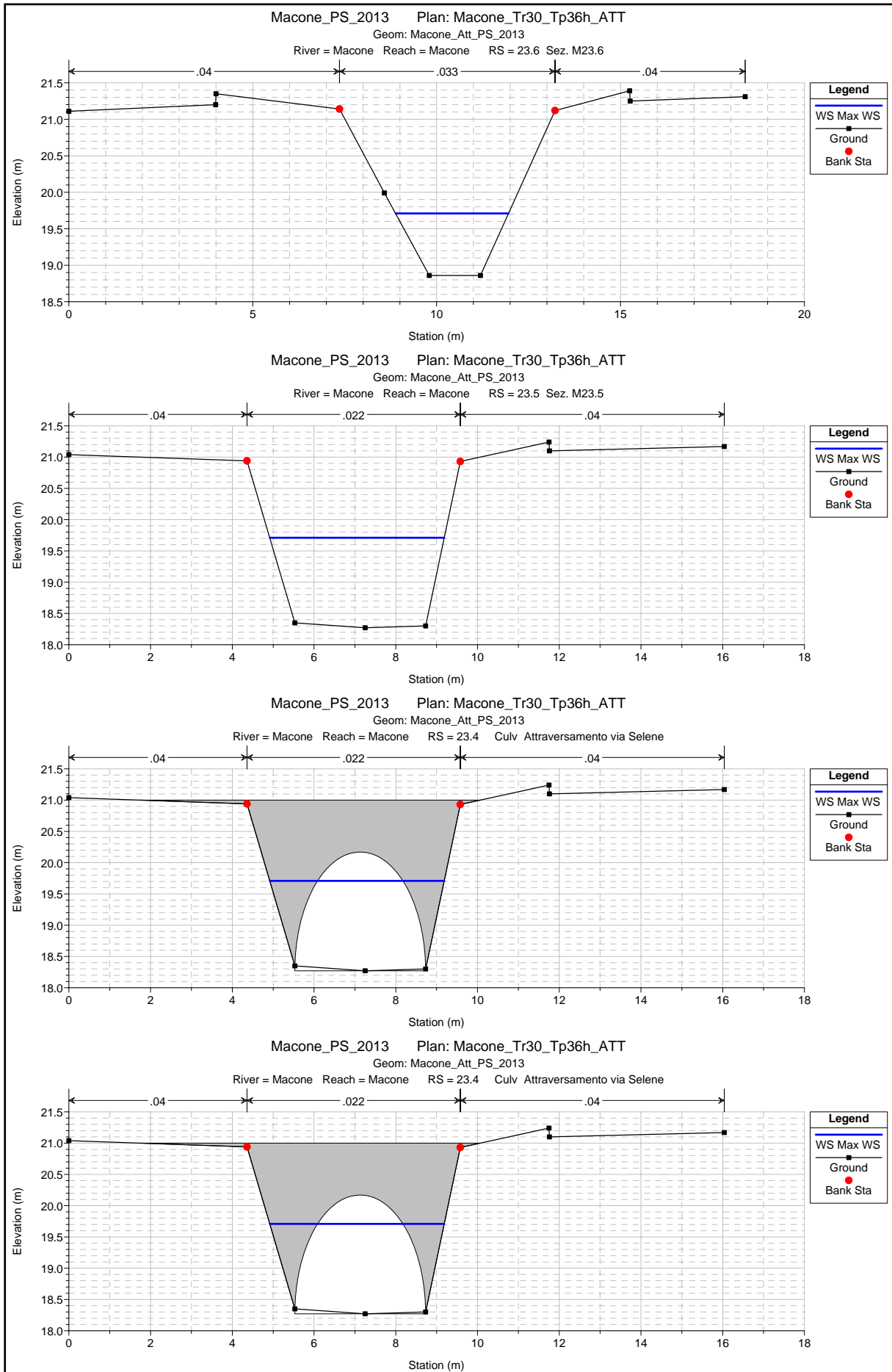


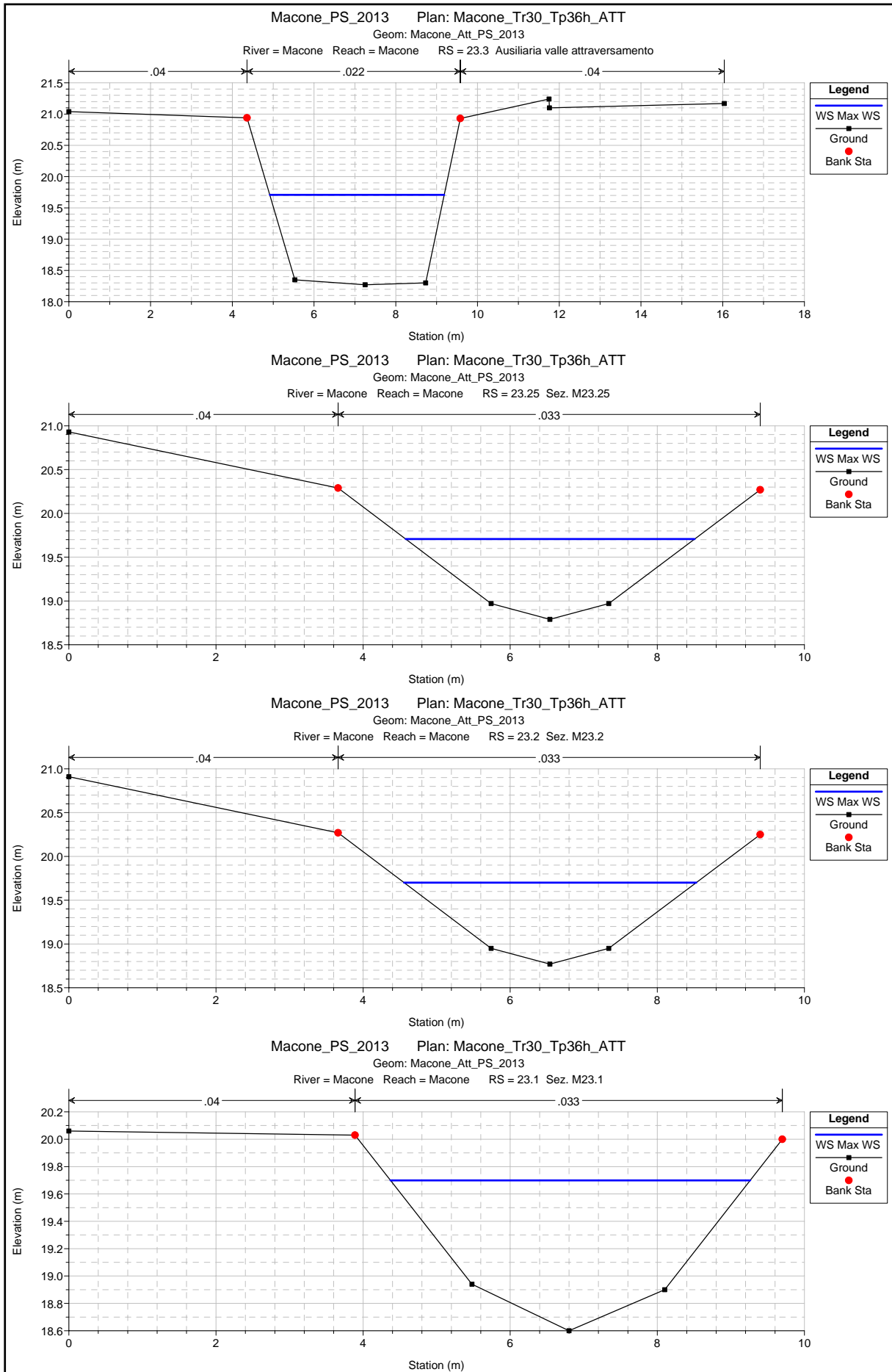


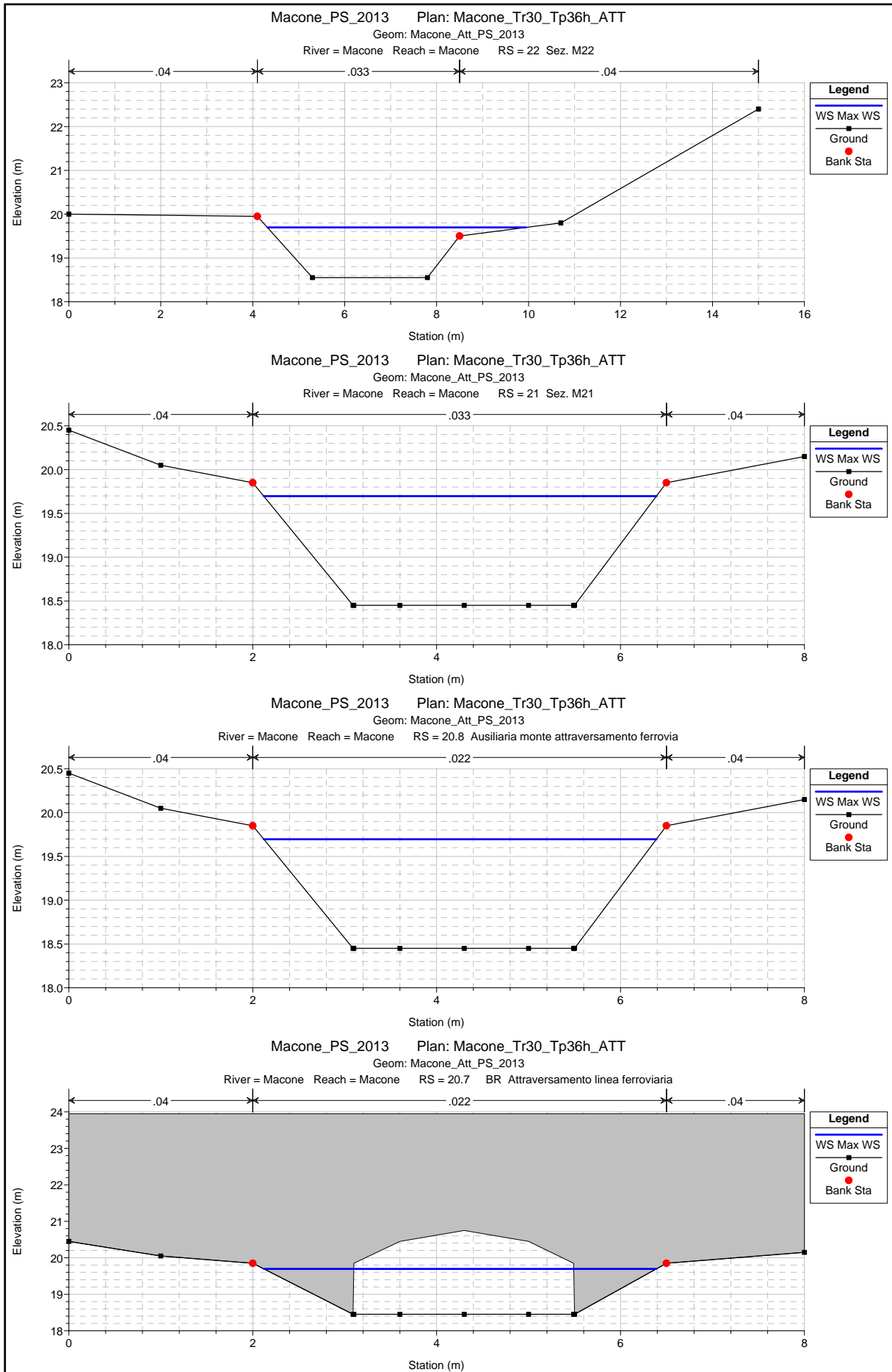




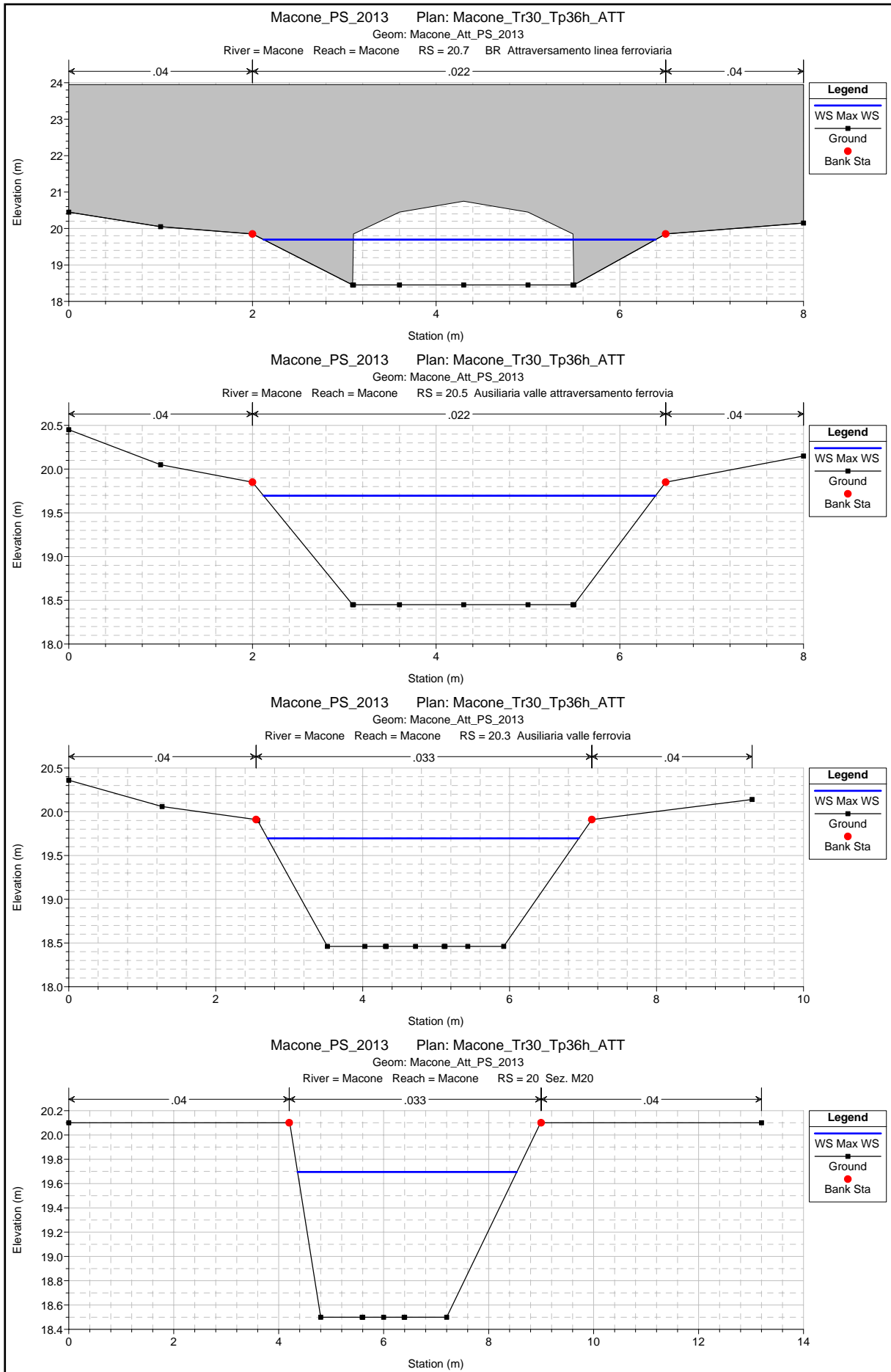


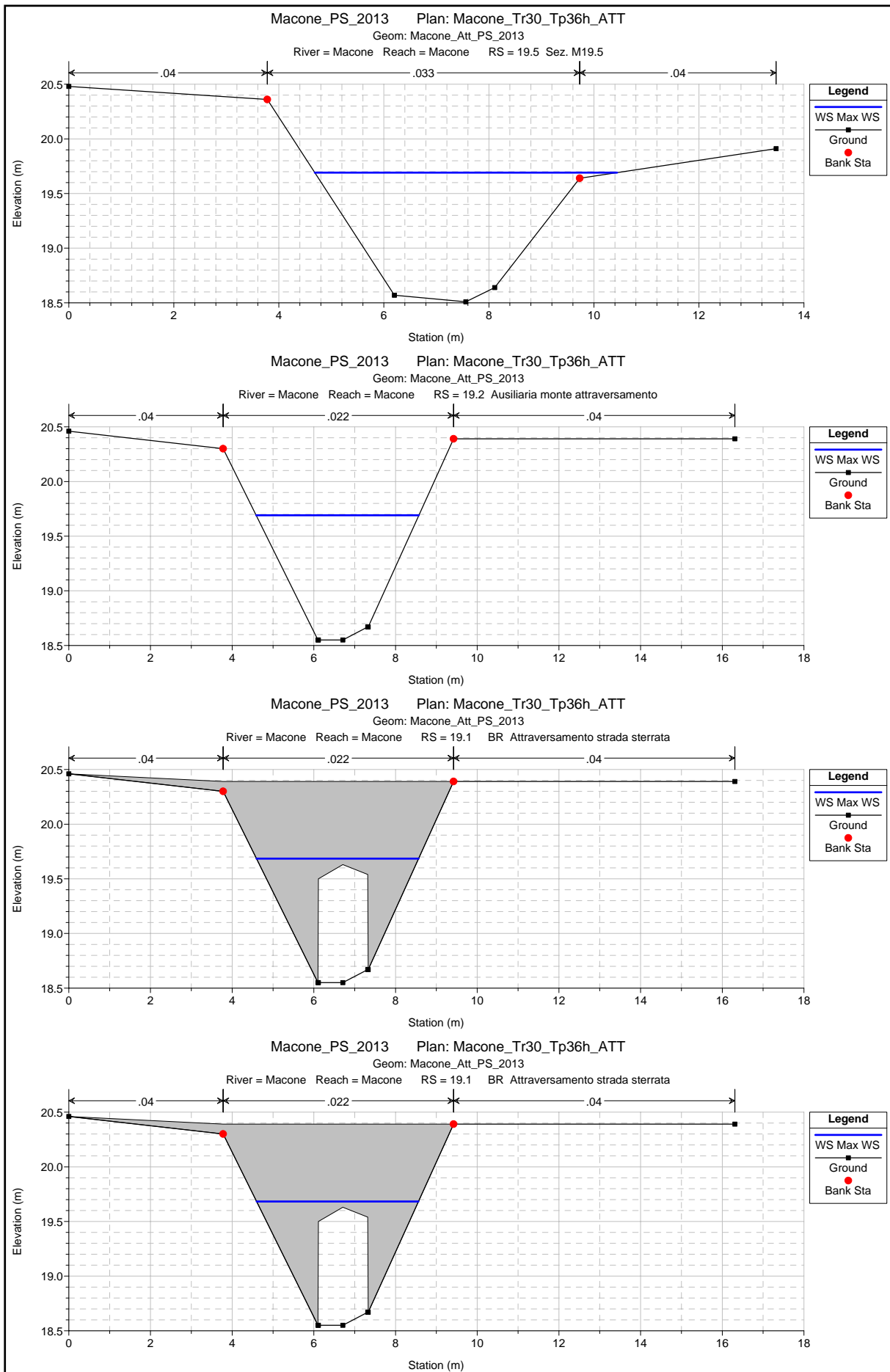


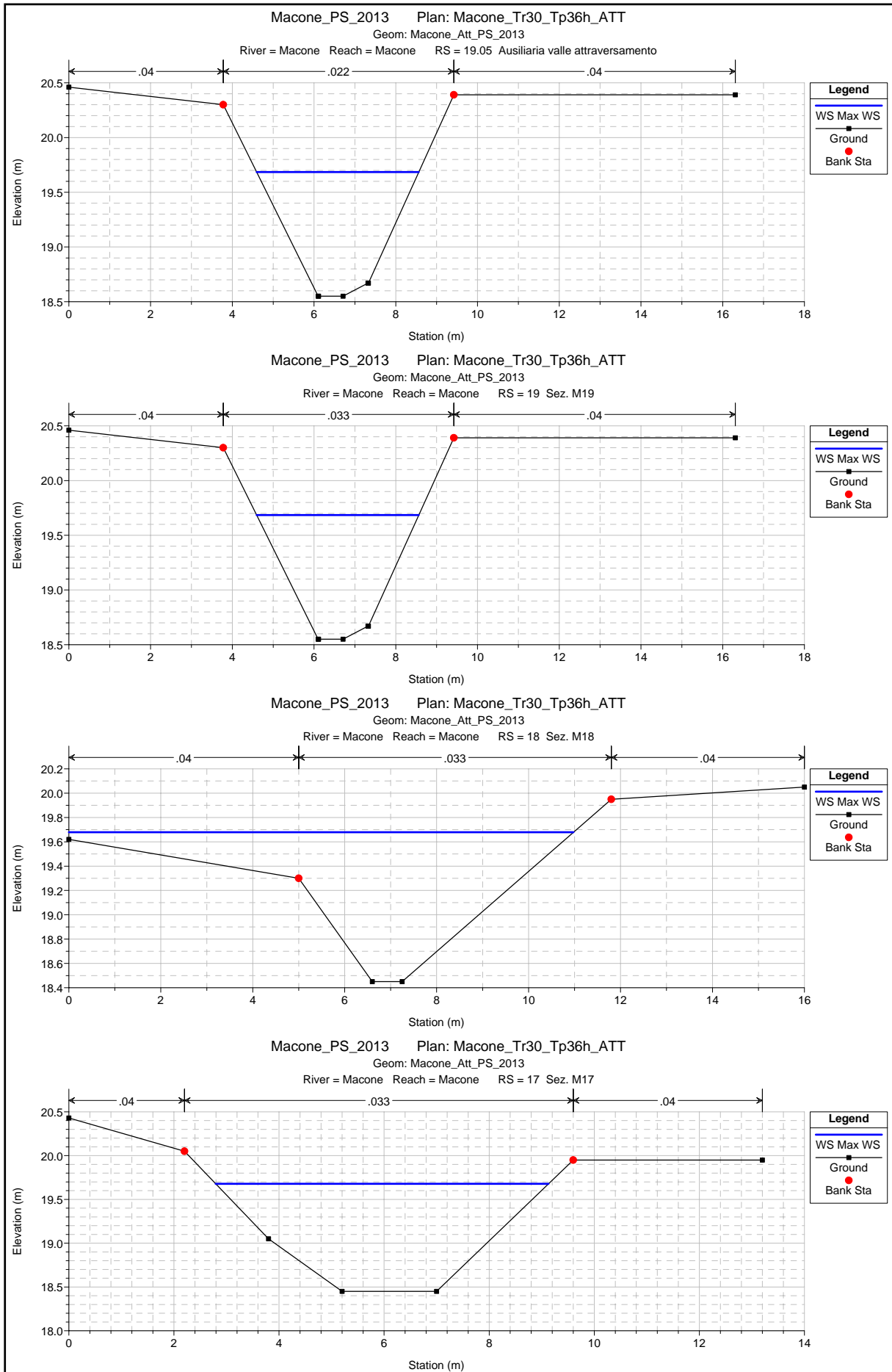


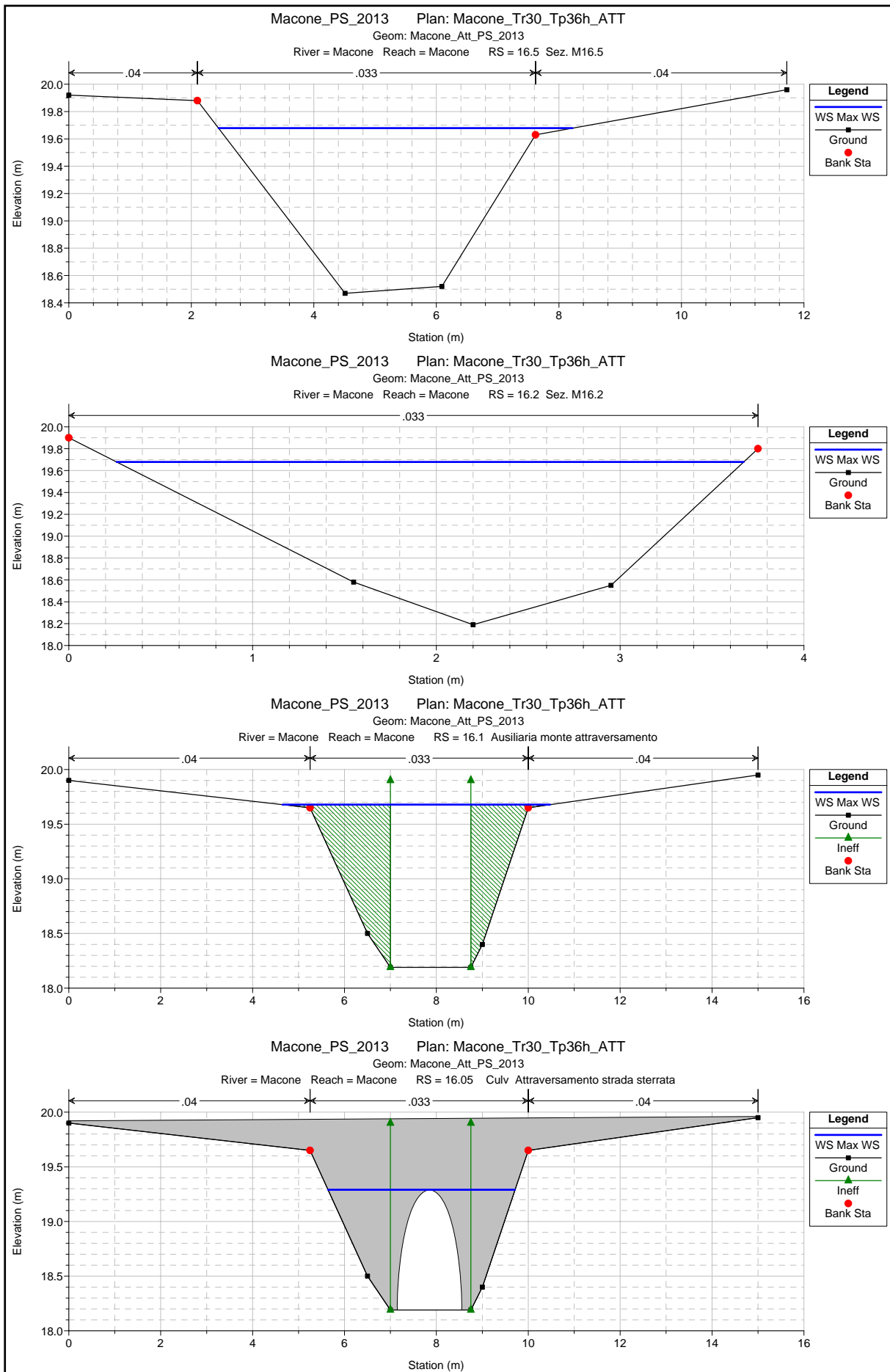


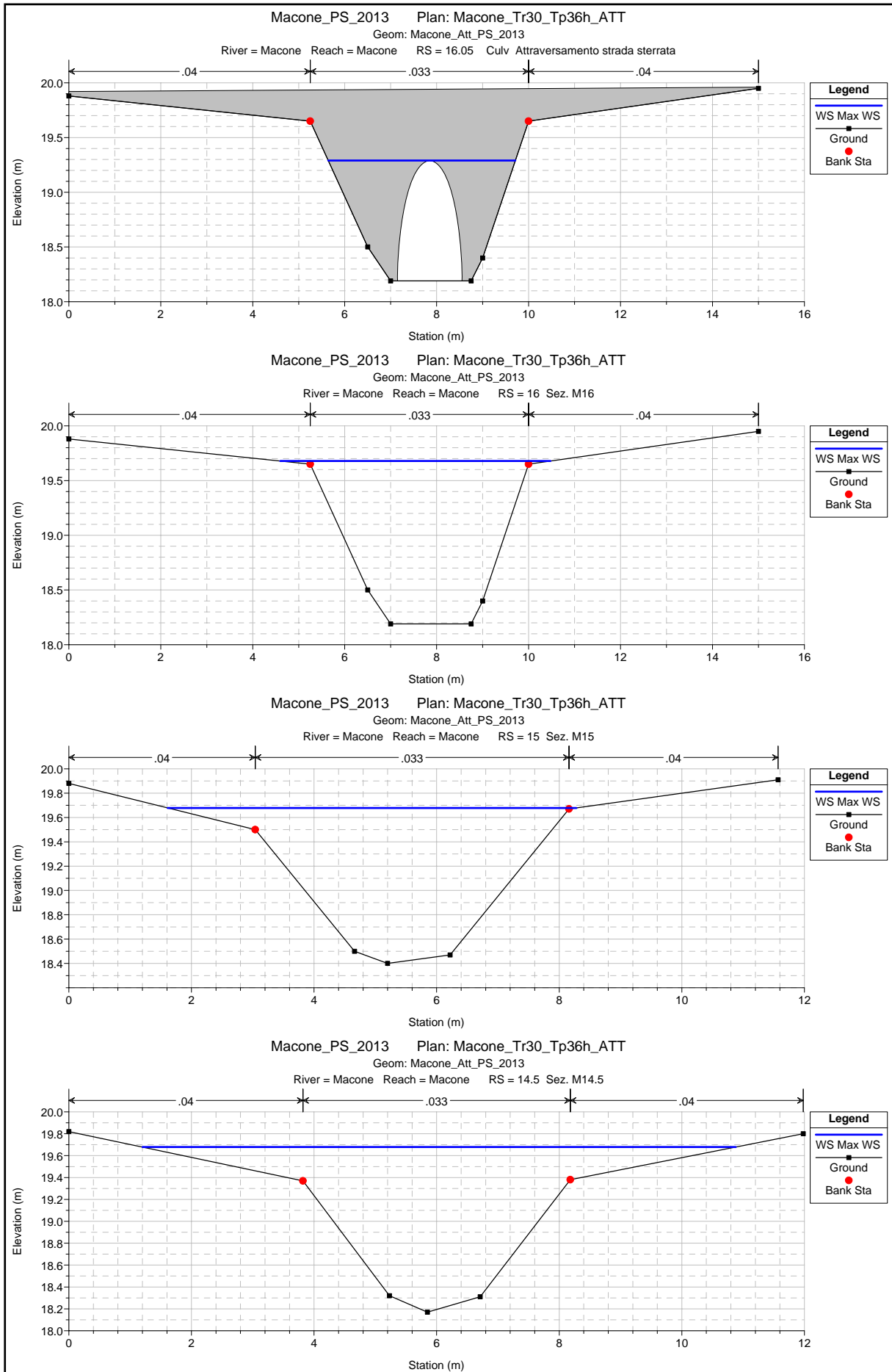


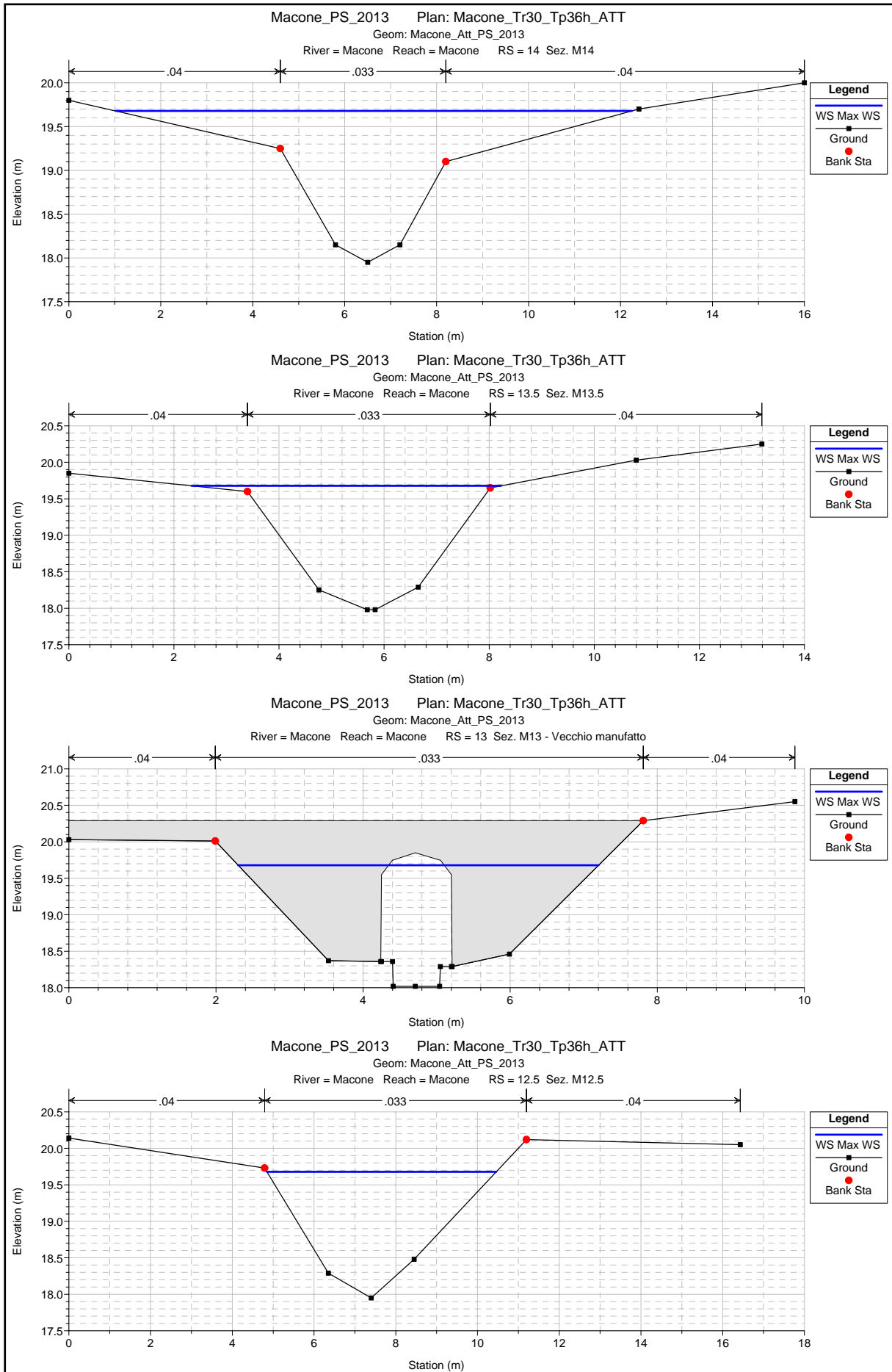


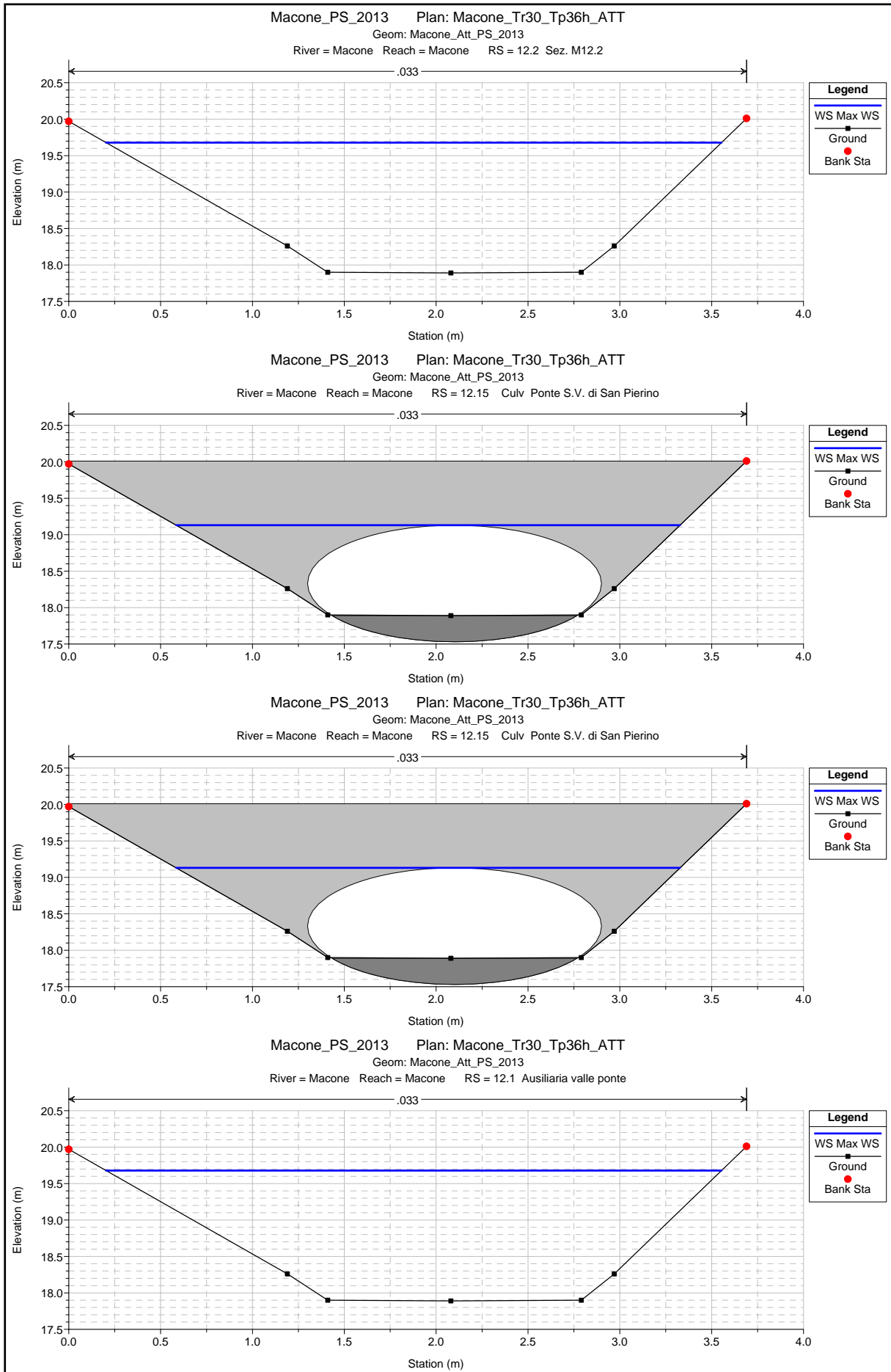


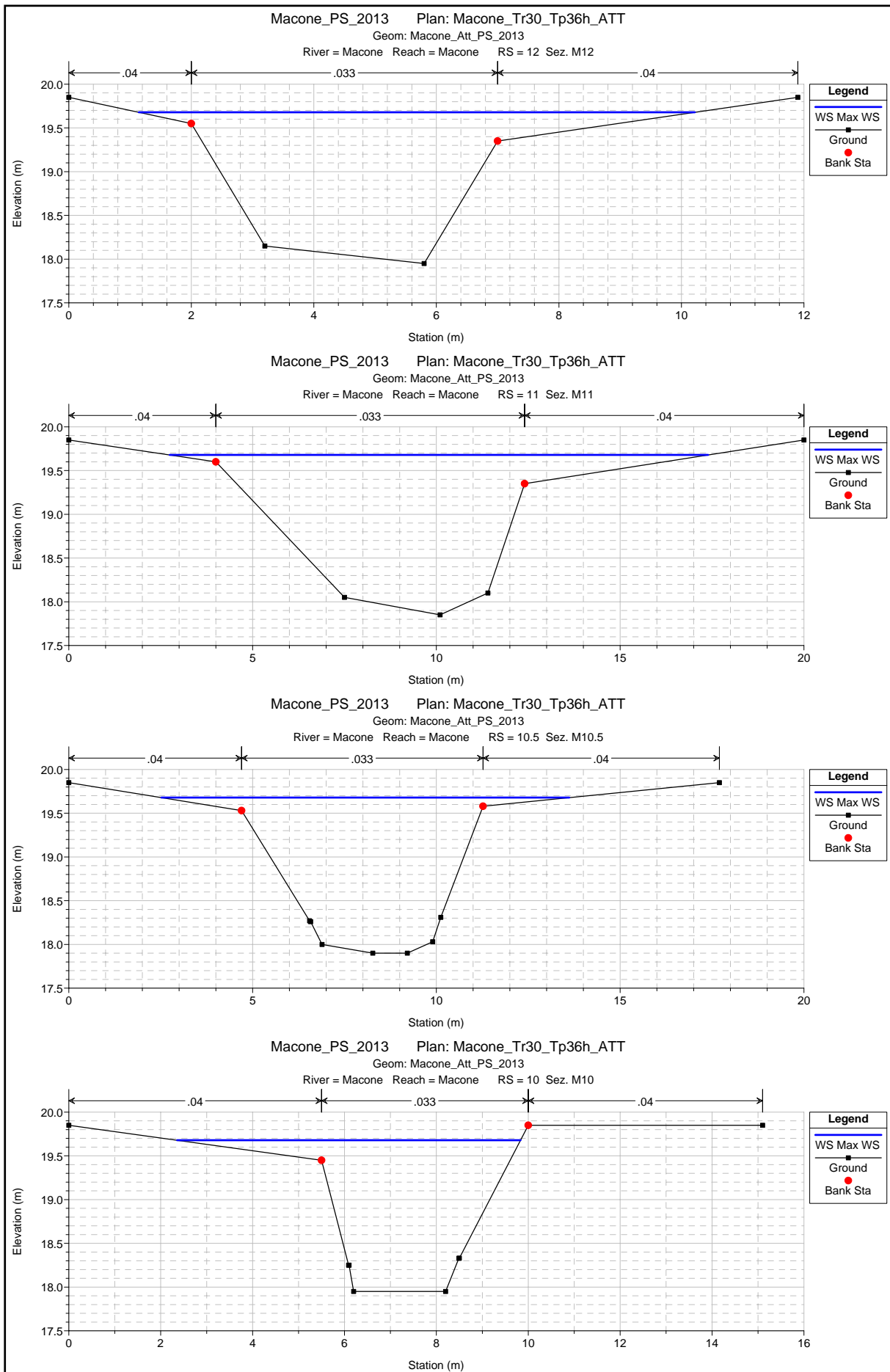




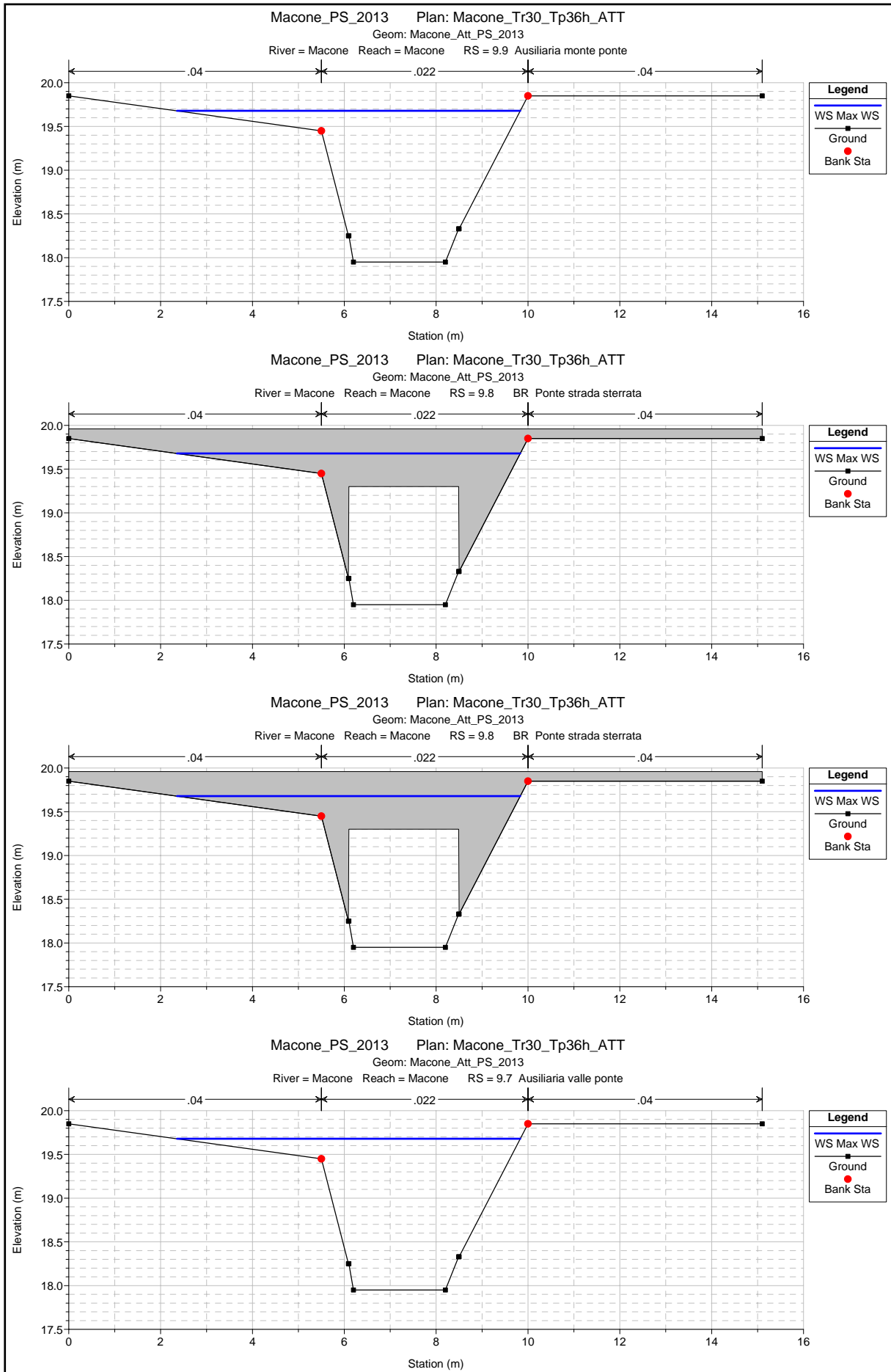


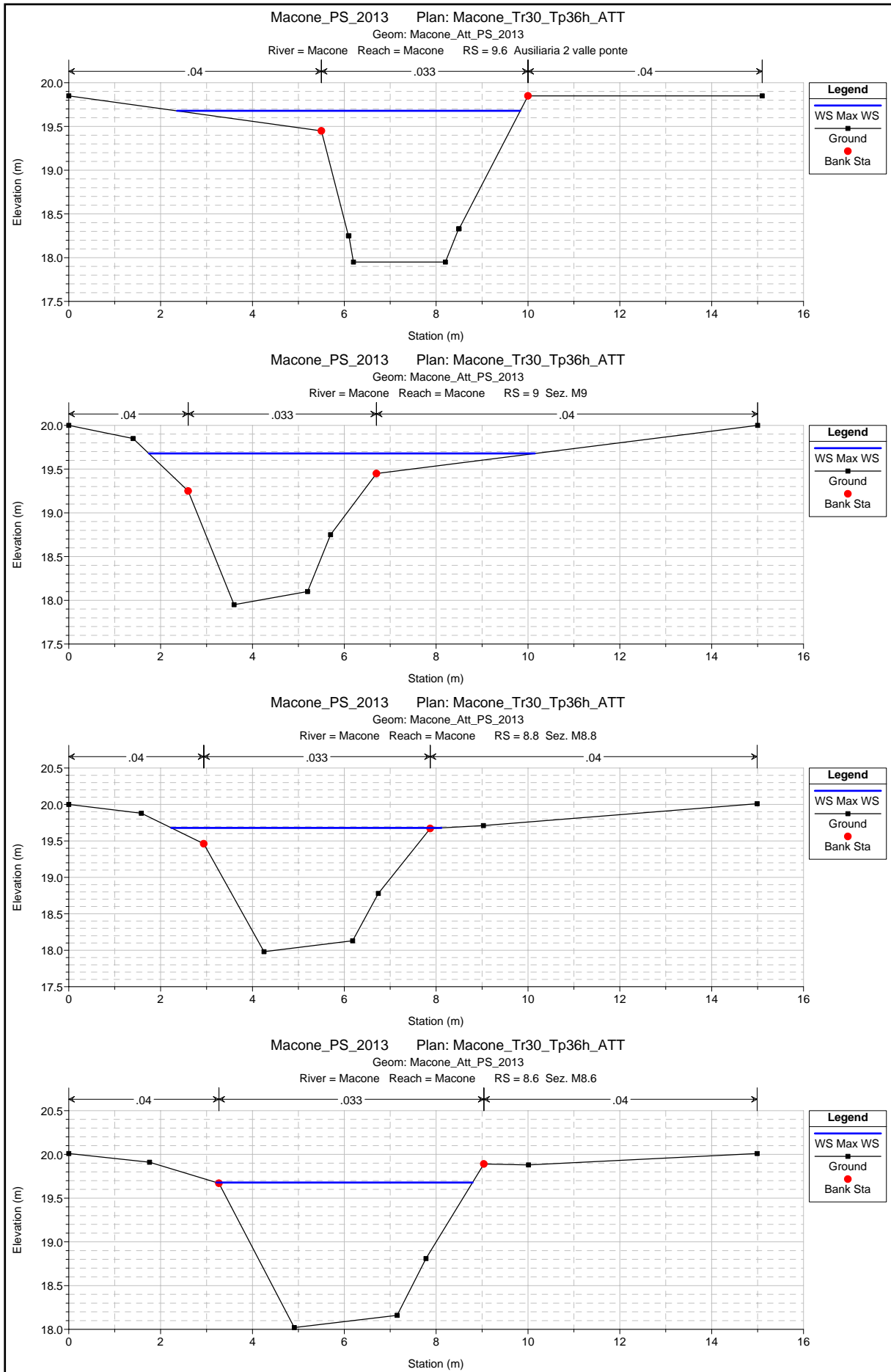


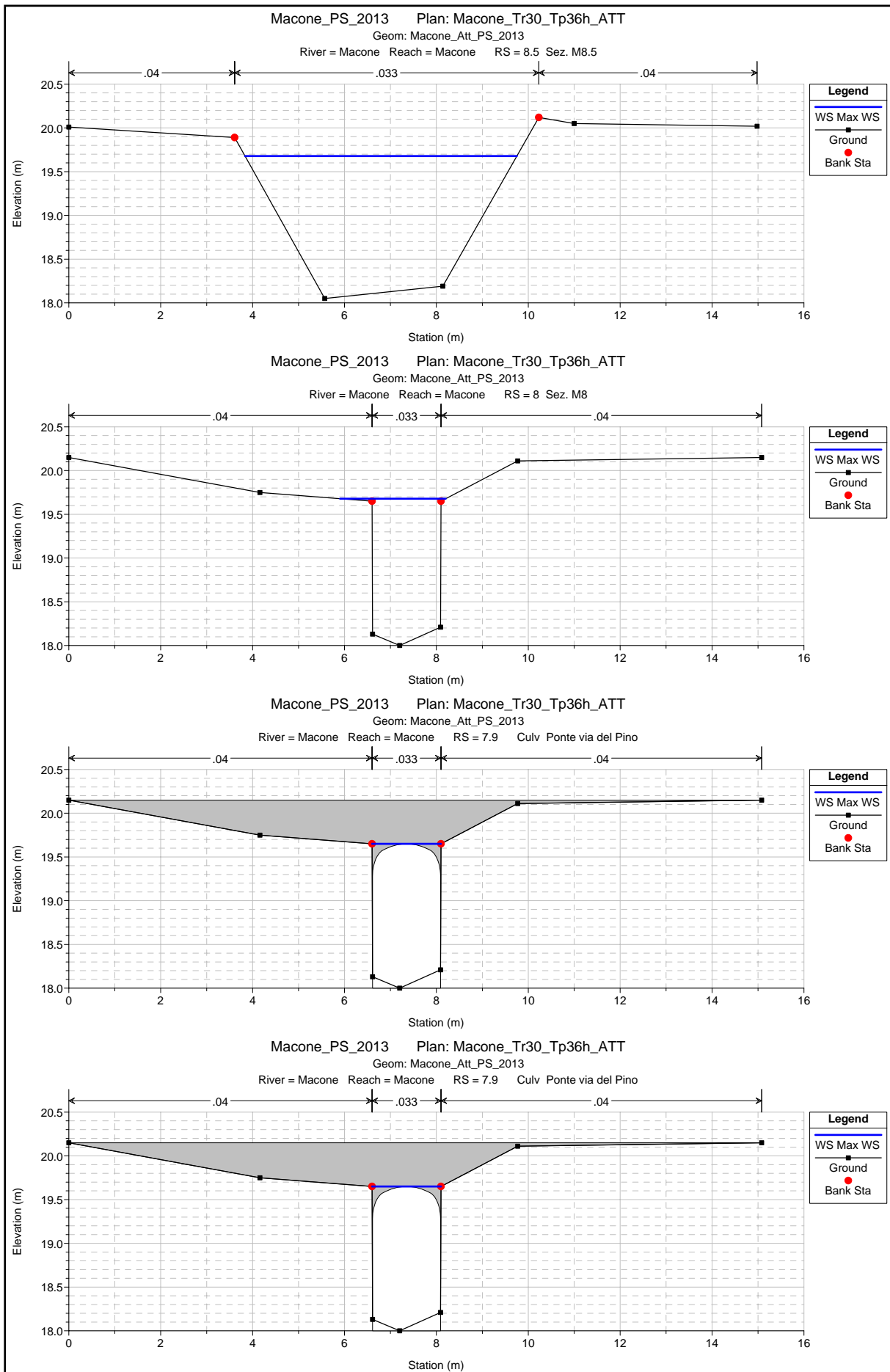


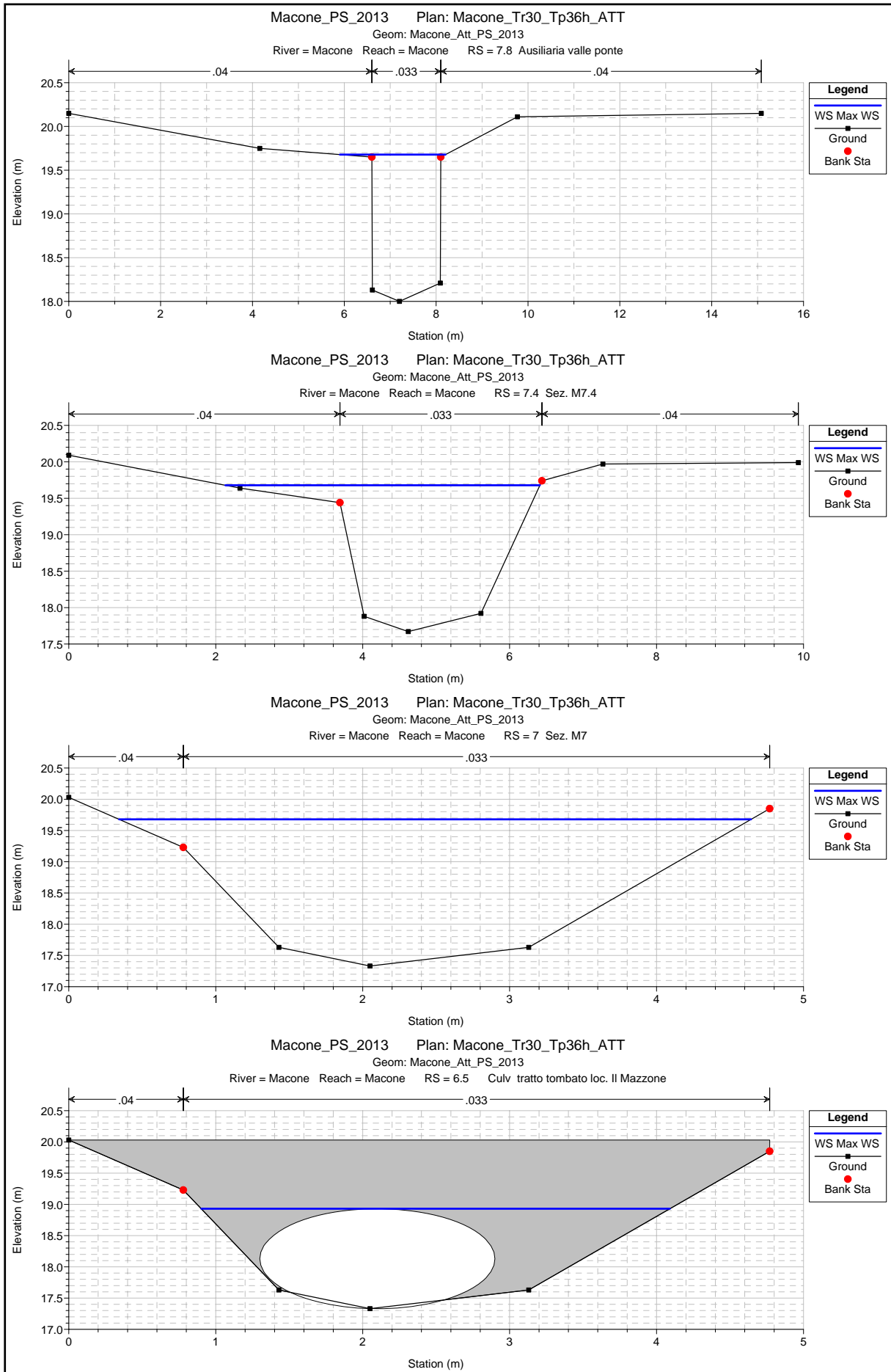


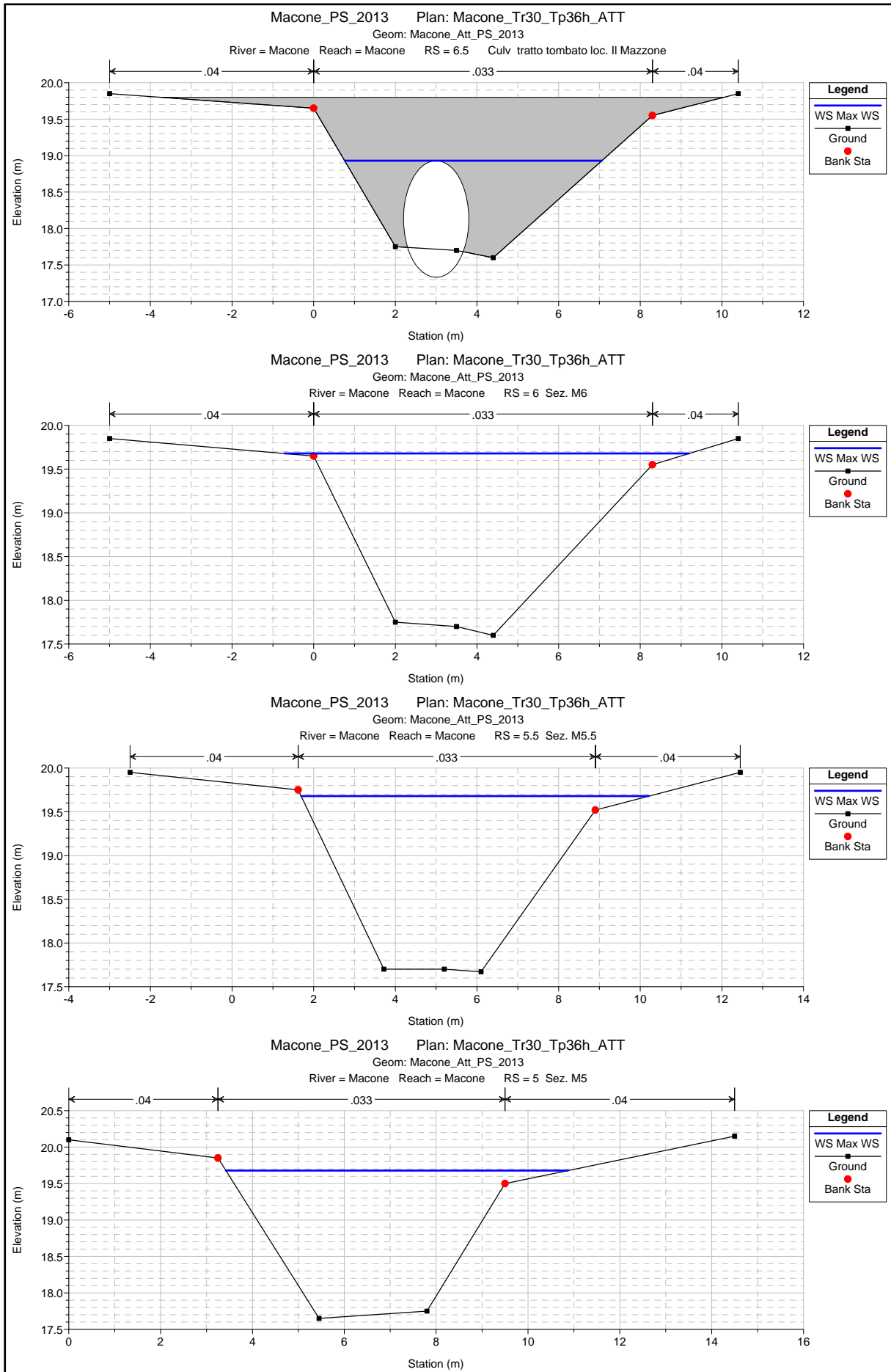


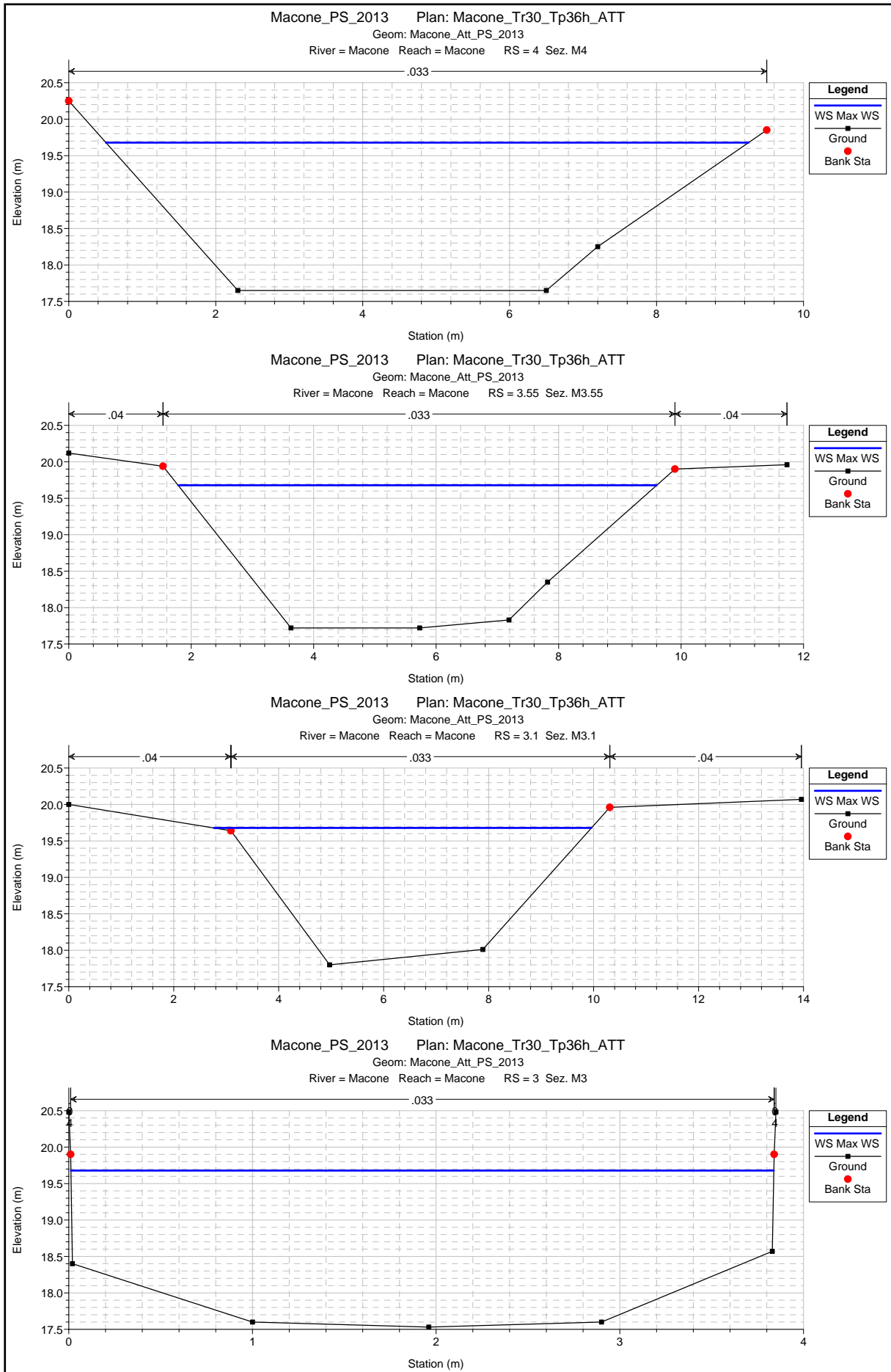


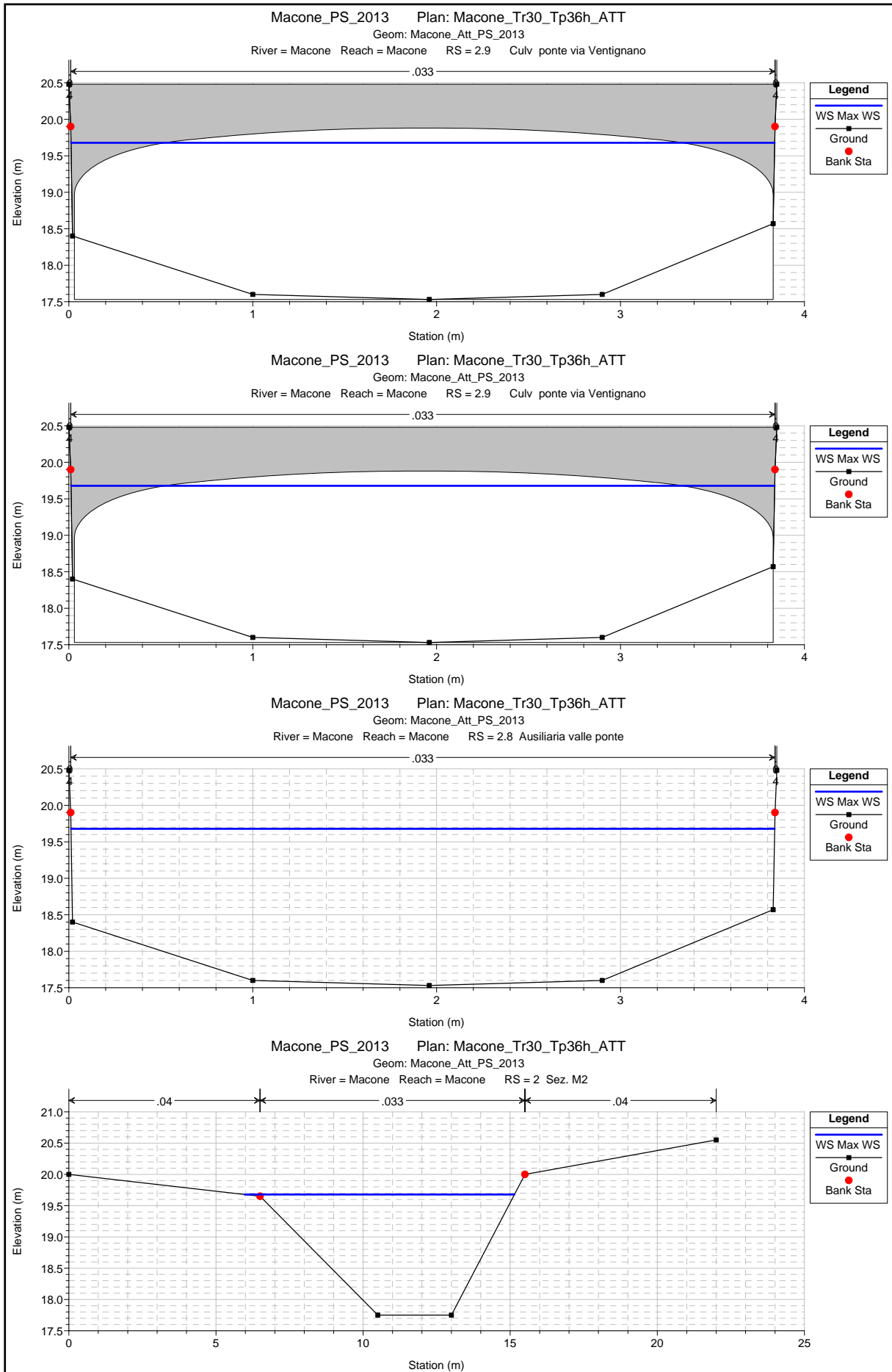


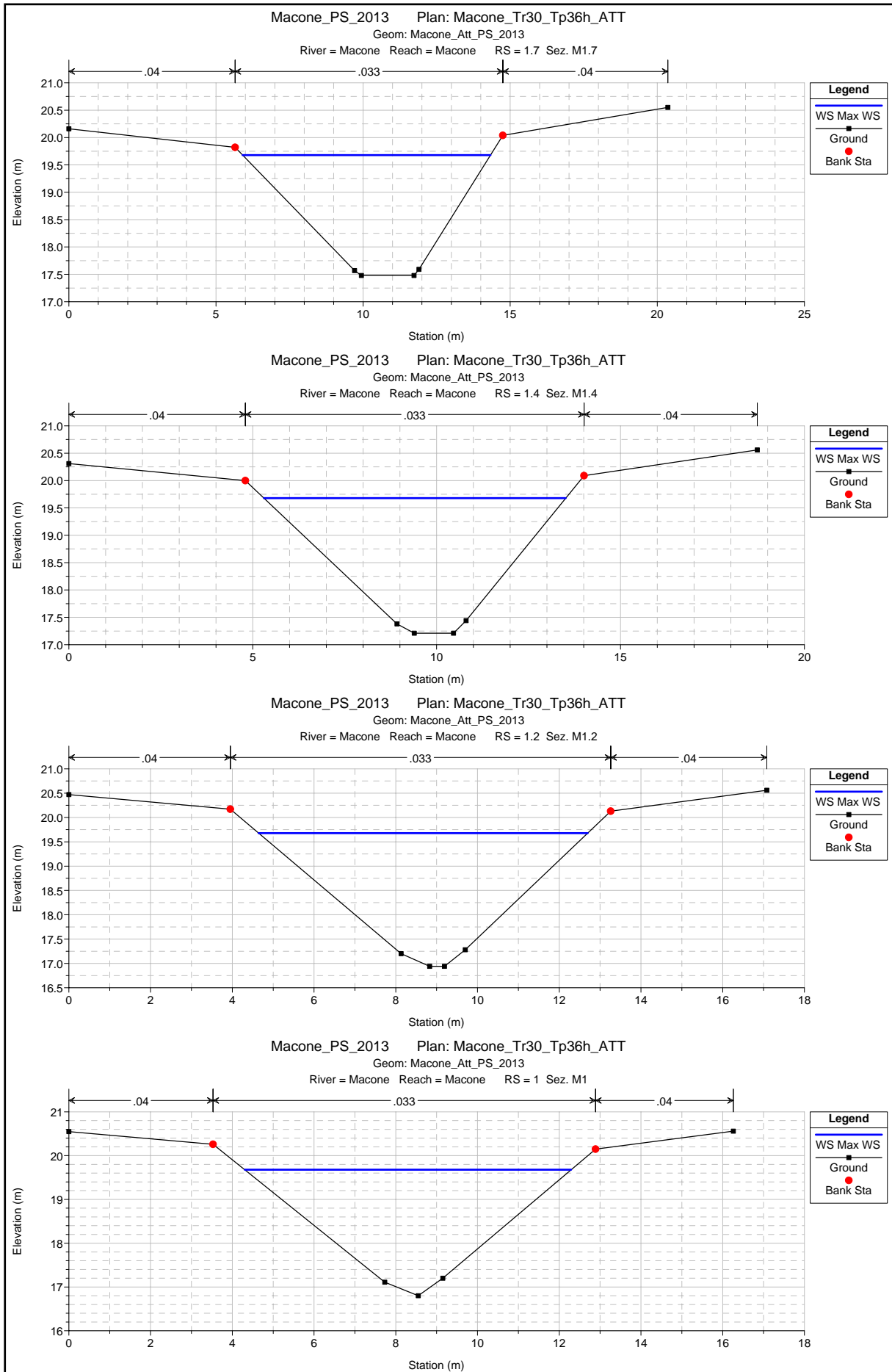




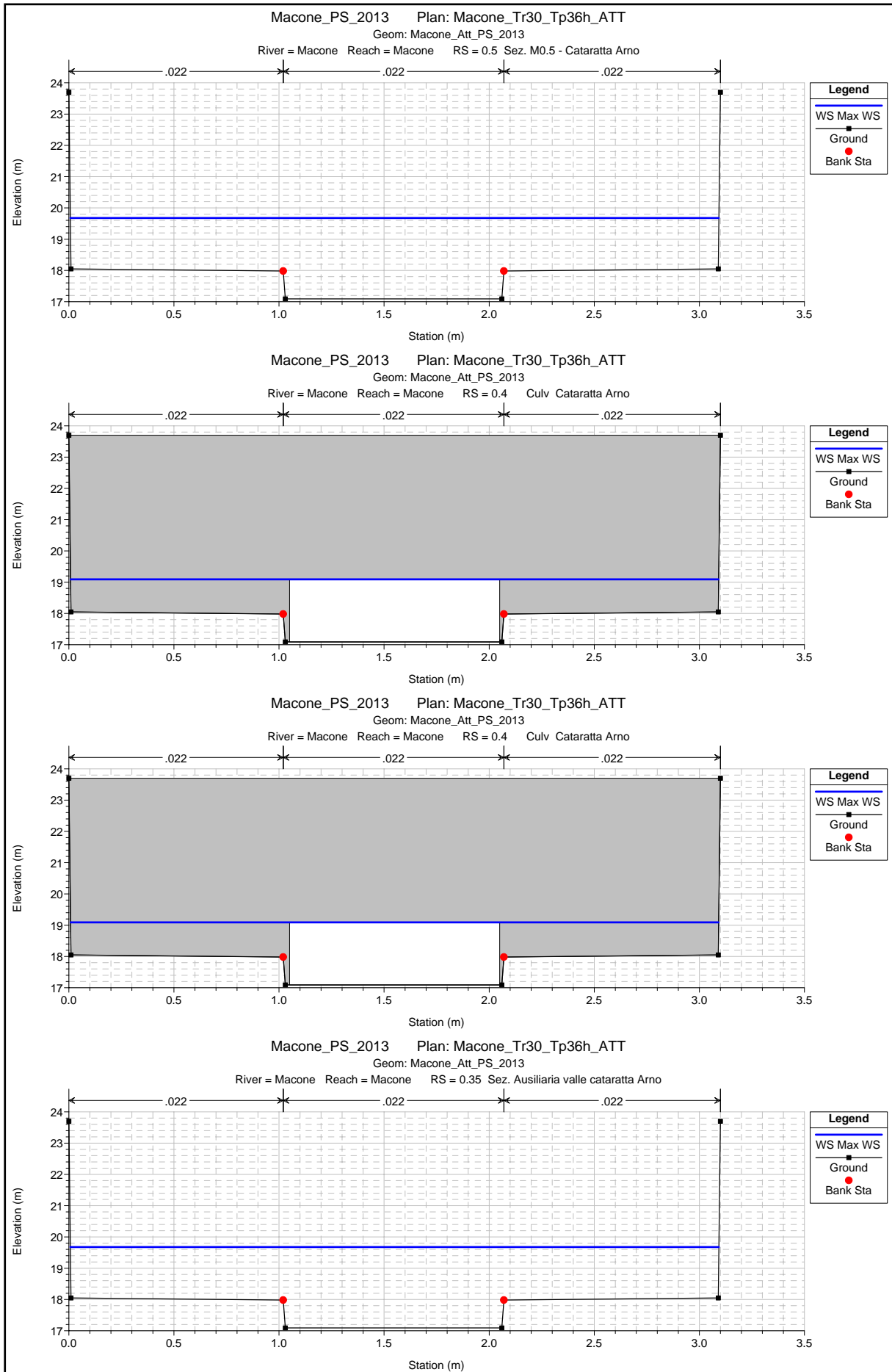


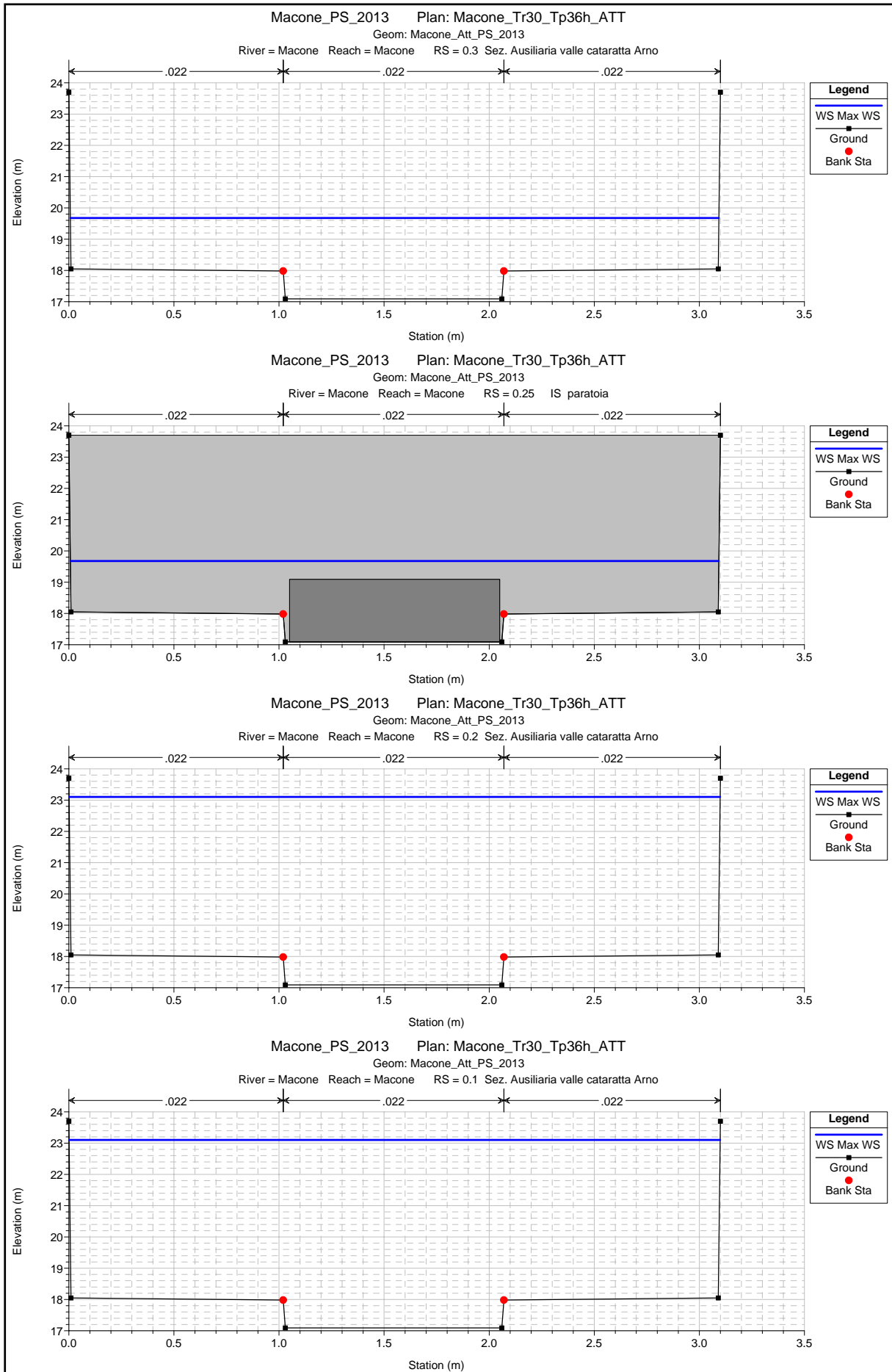












HEC-RAS Plan: Tr30\_Tp36h\_ATT River: Macone Reach: Macone Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Macone	30	Max WS	0.39	19.12	19.76		19.76	0.000196	0.24	1.61	3.10	0.11
Macone	29.9	Max WS	0.39	19.12	19.76		19.76	0.000197	0.24	1.61	3.10	0.11
Macone	29.88		Lat Struct									
Macone	29	Max WS	0.39	19.01	19.74		19.74	0.000064	0.15	2.53	4.50	0.07
Macone	28	Max WS	0.39	19.00	19.73		19.74	0.000110	0.27	1.45	1.99	0.10
Macone	27.5		Culvert									
Macone	27	Max WS	0.39	19.00	19.73		19.73	0.000113	0.27	1.44	1.99	0.10
Macone	26.75	Max WS	0.39	18.77	19.72		19.72	0.000036	0.18	2.20	2.32	0.06
Macone	26.5	Max WS	0.39	18.54	19.72		19.72	0.000014	0.12	3.12	2.66	0.04
Macone	26.2		Culvert									
Macone	26	Max WS	0.39	18.54	19.72		19.72	0.000014	0.13	3.11	2.66	0.04
Macone	25.99		Lat Struct									
Macone	25.98		Lat Struct									
Macone	25.8	Max WS	0.39	18.54	19.72		19.72	0.000014	0.13	3.11	2.66	0.04
Macone	25.6	Max WS	0.39	18.53	19.72		19.72	0.000025	0.12	3.36	3.00	0.04
Macone	24.9	Max WS	0.39	18.45	19.72		19.72	0.000015	0.10	4.06	4.46	0.03
Macone	24.89	Max WS	0.39	18.45	19.72		19.72	0.000003	0.07	5.85	5.24	0.02
Macone	24.88		Culvert									
Macone	24.85	Max WS	0.39	18.45	19.72		19.72	0.000003	0.07	5.85	5.24	0.02
Macone	24.8	Max WS	0.39	18.40	19.72		19.72	0.000004	0.08	4.88	4.41	0.02
Macone	24.7		Culvert									
Macone	24.6	Max WS	0.39	18.40	19.71		19.71	0.000004	0.08	4.87	4.41	0.02
Macone	24.55	Max WS	0.39	18.42	19.71		19.71	0.000010	0.08	4.72	4.36	0.03
Macone	24.54		Lat Struct									
Macone	24.53		Lat Struct									
Macone	23.6	Max WS	0.39	18.86	19.71		19.71	0.000116	0.21	1.89	3.07	0.08
Macone	23.5	Max WS	0.39	18.27	19.71		19.71	0.000003	0.07	5.26	4.27	0.02
Macone	23.4		Culvert									
Macone	23.3	Max WS	0.39	18.27	19.71		19.71	0.000003	0.07	5.25	4.27	0.02
Macone	23.29		Lat Struct									
Macone	23.28		Lat Struct									
Macone	23.25	Max WS	0.39	18.79	19.71		19.71	0.000089	0.18	2.18	3.93	0.08
Macone	23.2	Max WS	0.39	18.77	19.70		19.70	0.000083	0.17	2.24	3.97	0.07
Macone	23.1	Max WS	0.39	18.60	19.70		19.70	0.000028	0.12	3.35	4.89	0.04
Macone	22	Max WS	0.39	18.55	19.70		19.70	0.000016	0.10	4.05	5.63	0.03

HEC-RAS Plan: Tr30\_Tp36h\_ATT River: Macone Reach: Macone Profile: Max WS (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Macone	21	Max WS	0.39	18.45	19.70		19.70	0.000014	0.09	4.16	4.27	0.03
Macone	20.8	Max WS	0.39	18.45	19.70	18.59	19.70	0.000006	0.09	4.16	4.27	0.03
Macone	20.7		Bridge									
Macone	20.5	Max WS	0.39	18.45	19.70		19.70	0.000006	0.09	4.16	4.27	0.03
Macone	20.3	Max WS	0.39	18.46	19.70		19.70	0.000015	0.10	4.10	4.24	0.03
Macone	20.29		Lat Struct									
Macone	20.28		Lat Struct									
Macone	20	Max WS	0.39	18.50	19.69		19.70	0.000017	0.10	3.93	4.18	0.03
Macone	19.5	Max WS	0.39	18.51	19.69		19.69	0.000018	0.10	3.94	5.76	0.04
Macone	19.2	Max WS	0.39	18.55	19.69	18.78	19.69	0.000018	0.14	2.86	3.98	0.05
Macone	19.1		Bridge									
Macone	19.05	Max WS	0.39	18.55	19.68		19.69	0.000018	0.14	2.84	3.97	0.05
Macone	19	Max WS	0.39	18.55	19.68		19.69	0.000041	0.14	2.84	3.97	0.05
Macone	18.99		Lat Struct									
Macone	18.98		Lat Struct									
Macone	18	Max WS	0.01	18.45	19.68		19.68	0.000000	0.00	5.47	10.98	0.00
Macone	17	Max WS	0.00	18.45	19.68		19.68	0.000000	0.00	5.14	6.33	0.00
Macone	16.99		Lat Struct									
Macone	16.5	Max WS	0.00	18.47	19.68		19.68	0.000000	0.00	4.06	5.78	0.00
Macone	16.2	Max WS	0.00	18.19	19.68		19.68	0.000000	0.00	2.94	3.41	0.00
Macone	16.1	Max WS	0.00	18.19	19.68		19.68	0.000000	0.00	2.60	5.82	0.00
Macone	16.05		Culvert									
Macone	16	Max WS	0.00	18.19	19.68		19.68	0.000000	0.00	5.04	5.87	0.00
Macone	15	Max WS	0.00	18.40	19.68		19.68	0.000000	0.00	4.34	6.67	0.00
Macone	14.99		Lat Struct									
Macone	14.98		Lat Struct									
Macone	14.5	Max WS	0.00	18.17	19.68		19.68	0.000000	0.00	5.33	9.68	0.00
Macone	14	Max WS	0.00	17.95	19.68		19.68	0.000000	0.00	6.45	11.23	0.00
Macone	13.5	Max WS	0.00	17.98	19.68		19.68	0.000000	0.00	5.00	5.90	0.00
Macone	13	Max WS	0.00	18.02	19.68	18.03	19.68	0.000000	0.00	1.48	0.76	0.00
Macone	12.5	Max WS	0.00	17.95	19.68		19.68	0.000000	0.00	5.42	5.61	0.00
Macone	12.2	Max WS	0.00	17.89	19.68		19.68	0.000000	0.00	4.21	3.35	0.00
Macone	12.15		Culvert									
Macone	12.1	Max WS	0.00	17.89	19.68		19.68	0.000000	0.00	4.21	3.35	0.00
Macone	12	Max WS	0.00	17.95	19.68		19.68	0.000000	0.00	7.05	9.08	0.00

HEC-RAS Plan: Tr30\_Tp36h\_ATT River: Macone Reach: Macone Profile: Max WS (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Macone	11.99		Lat Struct									
Macone	11.98		Lat Struct									
Macone	11	Max WS	0.00	17.85	19.68		19.68	0.000000	0.00	11.52	14.65	0.00
Macone	10.5	Max WS	0.00	17.90	19.68		19.68	0.000000	0.00	8.65	11.09	0.00
Macone	10	Max WS	0.00	17.95	19.68		19.68	0.000000	0.00	5.83	7.47	0.00
Macone	9.9	Max WS	0.00	17.95	19.68	17.96	19.68	0.000000	0.00	5.83	7.47	0.00
Macone	9.8		Bridge									
Macone	9.7	Max WS	0.00	17.95	19.68		19.68	0.000000	0.00	5.83	7.47	0.00
Macone	9.6	Max WS	0.00	17.95	19.68		19.68	0.000000	0.00	5.83	7.47	0.00
Macone	9.59		Lat Struct									
Macone	9.58		Lat Struct									
Macone	9	Max WS	0.00	17.95	19.68		19.68	0.000000	0.00	5.51	8.41	0.00
Macone	8.8	Max WS	0.00	17.98	19.68		19.68	0.000000	0.00	5.67	5.89	0.00
Macone	8.6	Max WS	0.00	18.02	19.68		19.68	0.000000	0.00	6.12	5.58	0.00
Macone	8.5	Max WS	0.00	18.05	19.68		19.68	0.000000	0.00	6.62	5.92	0.00
Macone	8	Max WS	0.00	18.00	19.68		19.68	0.000000	0.00	2.38	2.29	0.00
Macone	7.9		Culvert									
Macone	7.8	Max WS	0.00	18.00	19.68		19.68	0.000000	0.00	2.38	2.29	0.00
Macone	7.79		Lat Struct									
Macone	7.78		Lat Struct									
Macone	7.4	Max WS	0.00	17.67	19.68		19.68	0.000000	0.00	4.24	4.28	0.00
Macone	7	Max WS	0.00	17.33	19.68		19.68	0.000000	0.00	6.20	4.30	0.00
Macone	6.5		Culvert									
Macone	6	Max WS	0.00	17.60	19.68		19.68	0.000000	0.00	11.08	9.91	0.00
Macone	5.99		Lat Struct									
Macone	5.98		Lat Struct									
Macone	5.5	Max WS	0.00	17.67	19.68		19.68	0.000000	0.00	9.86	8.51	0.00
Macone	5	Max WS	0.00	17.65	19.68		19.68	0.000000	0.00	8.62	7.45	0.00
Macone	4	Max WS	0.00	17.65	19.68		19.68	0.000000	0.00	13.02	8.75	0.00
Macone	3.55	Max WS	0.00	17.72	19.68		19.68	0.000000	0.00	10.88	7.82	0.00
Macone	3.1	Max WS	0.00	17.80	19.68		19.68	0.000000	0.00	8.71	7.20	0.00
Macone	3	Max WS	0.00	17.53	19.68		19.68	0.000000	0.00	7.15	3.83	0.00
Macone	2.9		Culvert									
Macone	2.8	Max WS	0.00	17.53	19.68		19.68	0.000000	0.00	7.15	3.83	0.00
Macone	2	Max WS	0.00	17.75	19.68		19.68	0.000000	0.00	10.81	9.17	0.00

HEC-RAS Plan: Tr30\_Tp36h\_ATT River: Macone Reach: Macone Profile: Max WS (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Macone	1.99		Lat Struct									
Macone	1.98		Lat Struct									
Macone	1.7	Max WS	0.00	17.48	19.68		19.68	0.000000	0.00	11.34	8.42	0.00
Macone	1.4	Max WS	0.00	17.21	19.68		19.68	0.000000	0.00	11.75	8.21	0.00
Macone	1.2	Max WS	0.00	16.94	19.68		19.68	0.000000	0.00	12.04	8.05	0.00
Macone	1	Max WS	0.00	16.80	19.68		19.68	0.000000	0.00	12.13	7.99	0.00
Macone	0.5	Max WS	0.00	17.09	19.68		19.68	0.000000	0.00	6.09	3.09	0.00
Macone	0.4		Culvert									
Macone	0.35	Max WS	0.00	17.09	19.68		19.68	0.000000	0.00	6.09	3.09	0.00
Macone	0.3	Max WS	0.00	17.09	19.68	17.10	19.68	0.000000	0.00	6.09	3.09	0.00
Macone	0.25		Inl Struct									
Macone	0.2	Max WS	0.00	17.09	23.10		23.10	0.000000	0.00	16.67	3.10	0.00
Macone	0.1	Max WS	0.00	17.09	23.10	17.10	23.10	0.000000	0.00	16.67	3.10	0.00