



COMUNE DI SANSEPOLCRO

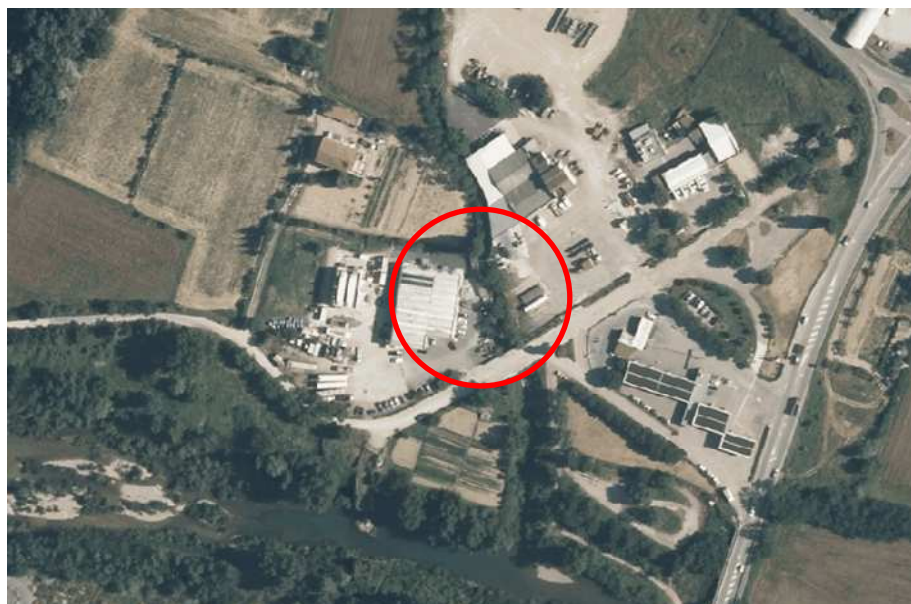
Provincia di Arezzo

MODIFICA PUNTUALE DELLA CARTA DELLA PERICOLOSITÀ IDRAULICA IN SANSEPOLCRO, LOC. PONTE DEL TEVERE

Committente

SUPERCAR S.r.l.

Via Senese Aretina, 110 – Sansepolcro



FASCICOLO VERIFICA IDRAULICA

Aprile 2017

Il Tecnico incaricato

Ing. Marco Benini

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Tel/fax 0575-323668

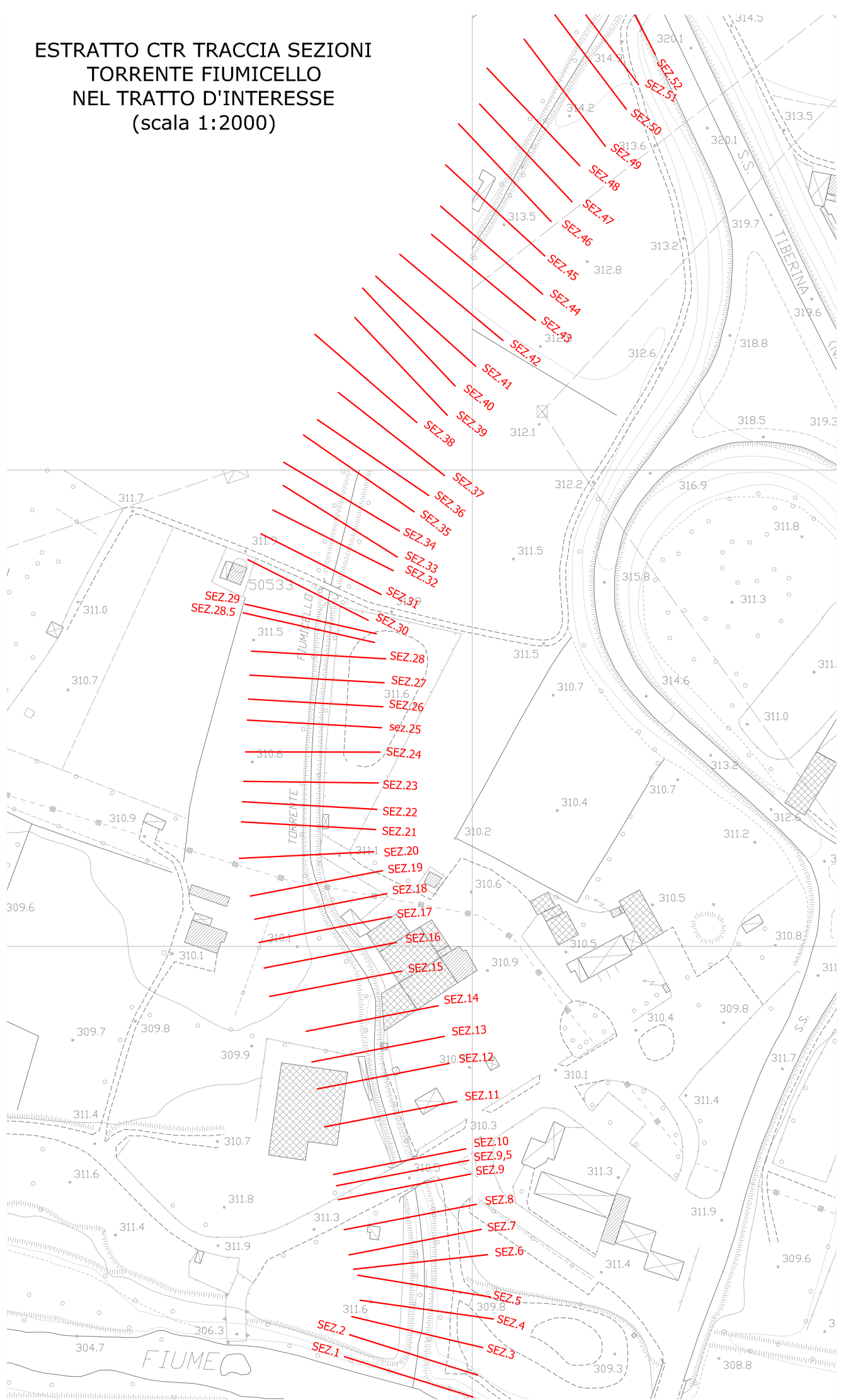
benini@quasaringegneria.it

TORRENTE FIUMICELLO

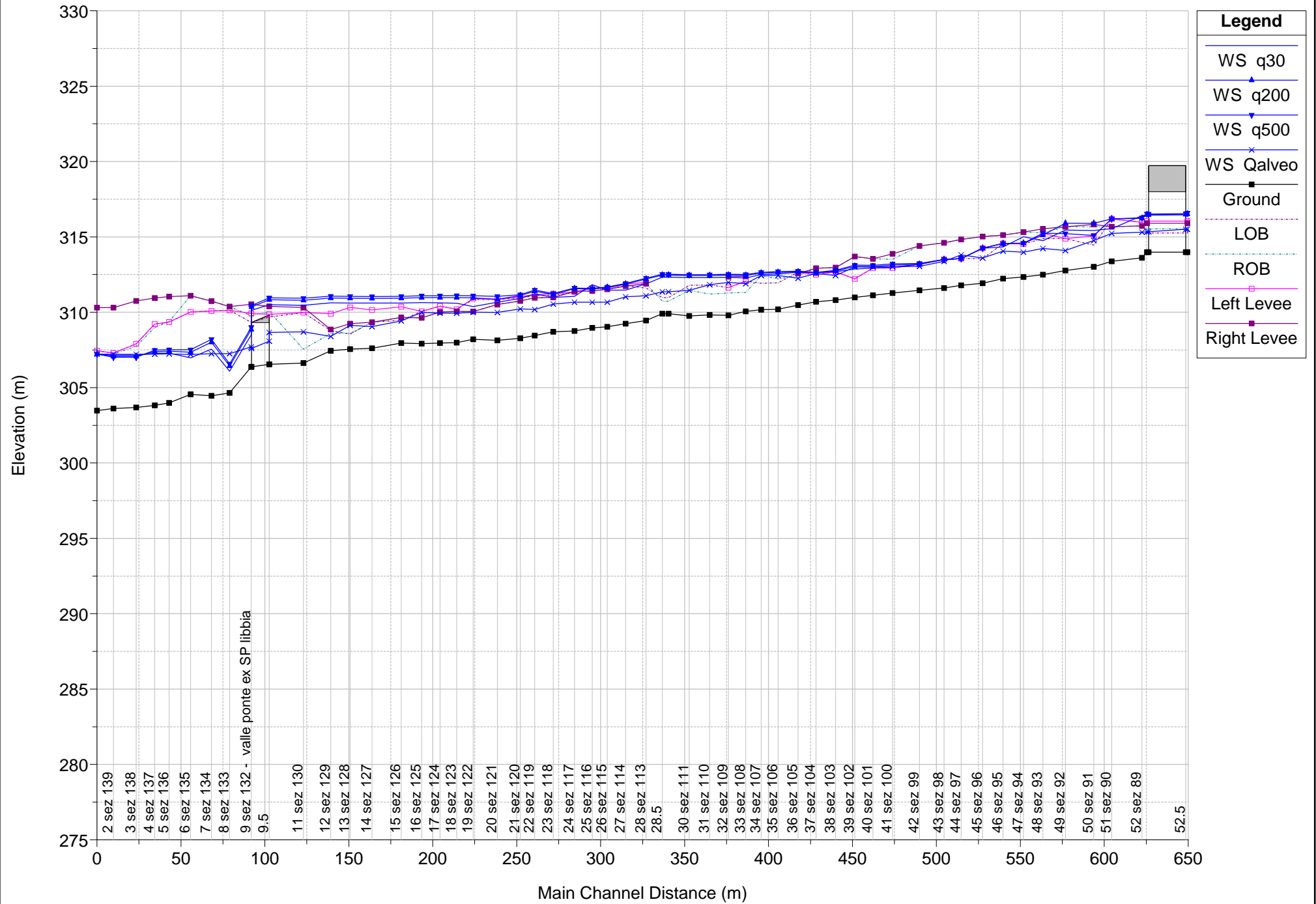
Risultati della simulazione idraulica condotta in condizioni di moto permanente mediante il software HEC-RAS 4.1.0. per tempo di ritorno $Tr=30, 200$ e 500 anni e per portata limite Qalveo

- Planimetria
- Profilo
- Tabella dei risultati
- Sezioni

**ESTRATTO CTR TRACCIA SEZIONI
TORRENTE FIUMICELLO
NEL TRATTO D'INTERESSE
(scala 1:2000)**



Fiumicello Supercar Plan: agg LSPP



HEC-RAS Plan: 2017 Locations: User Defined

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
fiomicello	fiomicello	52.3	q30	46.10	313.99	316.46	315.69	316.49	0.000447	0.94	59.62	41.24	0.20
fiomicello	fiomicello	52.3	q200	63.80	313.99	316.48	316.05	316.54	0.000818	1.28	60.54	41.40	0.27
fiomicello	fiomicello	52.3	q500	72.00	313.99	316.53	316.05	316.61	0.000938	1.39	62.79	41.80	0.29
fiomicello	fiomicello	52.3	Qalveo	20.00	313.99	315.33	315.02	315.56	0.005346	2.08	9.61	8.67	0.62
fiomicello	fiomicello	52	q30	46.10	313.61	316.41	315.65	316.48	0.001124	1.41	49.41	65.55	0.31
fiomicello	fiomicello	52	q200	63.80	313.61	316.23	316.23	316.48	0.004210	2.58	37.47	65.55	0.59
fiomicello	fiomicello	52	q500	72.00	313.61	316.27	316.27	316.54	0.004533	2.71	40.32	65.55	0.62
fiomicello	fiomicello	52	Qalveo	20.00	313.61	315.31	314.90	315.54	0.004961	2.09	9.55	7.82	0.60
fiomicello	fiomicello	51	q30	46.10	313.38	315.54	315.54	316.24	0.012812	3.70	12.45	8.85	1.00
fiomicello	fiomicello	51	q200	63.80	313.38	316.20	316.20	316.32	0.002171	1.85	46.25	55.88	0.43
fiomicello	fiomicello	51	q500	72.00	313.38	316.20	316.20	316.36	0.002765	2.08	46.25	55.88	0.48
fiomicello	fiomicello	51	Qalveo	20.00	313.38	315.24	314.79	315.44	0.004572	2.03	9.86	8.05	0.59
fiomicello	fiomicello	50	q30	46.20	313.02	315.43	315.07	315.52	0.001706	1.41	35.13	26.92	0.36
fiomicello	fiomicello	50	q200	64.00	313.02	315.90	315.07	315.98	0.001149	1.34	53.94	57.88	0.31
fiomicello	fiomicello	50	q500	72.10	313.02	315.10	315.07	315.49	0.010303	3.14	26.28	26.41	0.87
fiomicello	fiomicello	50	Qalveo	20.00	313.02	314.76	314.76	315.28	0.013621	3.18	6.38	6.54	0.97
fiomicello	fiomicello	49	q30	46.20	312.77	315.45	314.89	315.49	0.000557	0.88	51.25	29.10	0.21
fiomicello	fiomicello	49	q200	64.00	312.77	315.91	314.89	315.95	0.000442	0.89	77.17	59.53	0.19
fiomicello	fiomicello	49	q500	72.10	312.77	315.21	314.89	315.35	0.002129	1.60	44.44	28.78	0.40
fiomicello	fiomicello	49	Qalveo	20.00	312.77	314.10	314.33	314.92	0.028253	4.02	4.97	5.67	1.37
fiomicello	fiomicello	48	q30	46.20	312.49	314.75	314.75	315.41	0.012728	3.60	12.85	9.72	1.00
fiomicello	fiomicello	48	q200	64.00	312.49	315.12	315.12	315.87	0.011702	3.84	16.77	11.97	0.98
fiomicello	fiomicello	48	q500	72.10	312.49	315.25	315.25	315.31	0.000698	0.98	68.23	37.06	0.24
fiomicello	fiomicello	48	Qalveo	20.00	312.49	314.23	314.01	314.53	0.007752	2.42	8.27	7.87	0.75
fiomicello	fiomicello	47	q30	46.20	312.34	315.01	314.52	315.03	0.000304	0.63	66.15	36.20	0.16
fiomicello	fiomicello	47	q200	64.00	312.34	314.57	314.52	314.66	0.001356	1.16	50.70	35.44	0.32
fiomicello	fiomicello	47	q500	72.10	312.34	314.58	314.52	314.68	0.001716	1.31	50.75	35.44	0.36
fiomicello	fiomicello	47	Qalveo	20.00	312.34	313.98	313.91	314.40	0.011993	2.88	6.93	6.91	0.92
fiomicello	fiomicello	46	q30	46.20	312.23	314.34	314.34	314.96	0.012671	3.50	13.21	10.66	1.00
fiomicello	fiomicello	46	q200	64.00	312.23	314.57	314.57	314.64	0.001014	1.05	55.82	37.52	0.29
fiomicello	fiomicello	46	q500	72.10	312.23	314.57	314.57	314.66	0.001287	1.19	55.82	37.52	0.32
fiomicello	fiomicello	46	Qalveo	20.00	312.23	314.06	313.65	314.25	0.004480	1.92	10.42	9.52	0.59
fiomicello	fiomicello	45	q30	46.20	311.92	314.25	314.25	314.31	0.000964	1.05	44.39	32.45	0.27
fiomicello	fiomicello	45	q200	64.00	311.92	314.25	314.25	314.36	0.001850	1.46	44.39	32.45	0.37
fiomicello	fiomicello	45	q500	72.10	311.92	314.25	314.25	314.38	0.002348	1.64	44.39	32.45	0.42
fiomicello	fiomicello	45	Qalveo	20.00	311.92	313.60	313.60	314.12	0.014955	3.20	6.25	6.08	1.00
fiomicello	fiomicello	44	q30	46.20	311.78	313.55	313.55	313.71	0.004911	1.89	26.49	31.26	0.58
fiomicello	fiomicello	44	q200	64.00	311.78	313.55	313.55	313.85	0.009424	2.61	26.49	31.26	0.81
fiomicello	fiomicello	44	q500	72.10	311.78	313.55	313.55	313.93	0.011960	2.94	26.49	31.26	0.91
fiomicello	fiomicello	44	Qalveo	20.00	311.78	313.80	313.45	313.82	0.000401	0.60	34.32	31.62	0.17
fiomicello	fiomicello	43	q30	46.20	311.61	313.50	313.50	313.60	0.002636	1.45	32.98	33.66	0.43
fiomicello	fiomicello	43	q200	64.00	311.61	313.50	313.50	313.69	0.005058	2.01	32.98	33.66	0.60
fiomicello	fiomicello	43	q500	72.10	311.61	313.50	313.50	313.74	0.006419	2.26	32.98	33.66	0.67
fiomicello	fiomicello	43	Qalveo	20.00	311.61	313.38	313.25	313.77	0.010290	2.76	7.25	6.71	0.85
fiomicello	fiomicello	42	q30	46.20	311.46	313.18	313.18	313.30	0.003849	1.70	29.98	35.50	0.51
fiomicello	fiomicello	42	q200	64.00	311.46	313.18	313.18	313.41	0.007386	2.35	29.98	35.50	0.71
fiomicello	fiomicello	42	q500	72.10	311.46	313.24	313.18	313.50	0.007617	2.45	31.97	35.55	0.72
fiomicello	fiomicello	42	Qalveo	20.00	311.46	313.05	313.05	313.57	0.014993	3.21	6.23	5.90	1.00
fiomicello	fiomicello	41	q30	46.20	311.27	312.99	312.93	313.11	0.003773	1.67	31.18	38.05	0.49
fiomicello	fiomicello	41	q200	64.00	311.27	313.13	312.93	313.29	0.004460	1.92	36.23	38.18	0.54
fiomicello	fiomicello	41	q500	72.10	311.27	313.21	312.93	313.38	0.004308	1.94	39.42	38.27	0.54
fiomicello	fiomicello	41	Qalveo	20.00	311.27	313.01	312.93	313.03	0.000661	0.70	31.84	38.07	0.21
fiomicello	fiomicello	40	q30	46.20	311.12	312.94	312.94	313.06	0.003616	1.70	30.02	33.11	0.49
fiomicello	fiomicello	40	q200	64.00	311.12	313.04	312.94	313.23	0.005004	2.08	33.23	33.19	0.58
fiomicello	fiomicello	40	q500	72.10	311.12	313.12	312.94	313.32	0.004986	2.14	35.83	33.26	0.59
fiomicello	fiomicello	40	Qalveo	20.00	311.12	313.00	312.72	313.02	0.000545	0.68	32.13	33.16	0.19
fiomicello	fiomicello	39	q30	46.20	310.98	312.86	312.49	312.95	0.002457	1.54	34.74	35.75	0.42
fiomicello	fiomicello	39	q200	64.00	310.98	313.04	312.62	313.17	0.002722	1.72	41.26	35.95	0.45
fiomicello	fiomicello	39	q500	72.10	310.98	313.12	312.67	313.26	0.002781	1.79	44.15	36.03	0.46
fiomicello	fiomicello	39	Qalveo	20.00	310.98	313.00	312.26	313.02	0.000297	0.56	39.83	35.90	0.15
fiomicello	fiomicello	38	q30	46.20	310.80	312.69	312.69	312.90	0.006915	2.35	23.55	31.03	0.69
fiomicello	fiomicello	38	q200	64.00	310.80	312.72	312.72	313.09	0.011548	3.09	24.62	31.07	0.90
fiomicello	fiomicello	38	q500	72.10	310.80	312.78	312.78	313.18	0.011762	3.19	26.41	31.13	0.91
fiomicello	fiomicello	38	Qalveo	20.00	310.80	312.43	312.43	312.96	0.015032	3.20	6.25	6.08	1.01
fiomicello	fiomicello	37	q30	46.20	310.69	312.63	312.49	312.76	0.003769	1.78	29.73	34.05	0.53
fiomicello	fiomicello	37	q200	64.00	310.69	312.61	312.51	312.87	0.007859	2.55	28.95	34.00	0.76
fiomicello	fiomicello	37	q500	72.10	310.69	312.64	312.56	312.94	0.008884	2.74	30.04	34.08	0.81
fiomicello	fiomicello	37	Qalveo	20.00	310.69	312.58	312.27	312.61	0.000859	0.83	27.92	33.92	0.25
fiomicello	fiomicello	36	q30	46.20	310.47	312.66	312.66	312.71	0.001459	1.21	48.62	69.60	0.34
fiomicello	fiomicello	36	q200	64.00	310.47	312.67	312.66	312.77	0.002648	1.64	49.61	69.60	0.46
fiomicello	fiomicello	36	q500	72.10	310.47	312.73	312.66	312.84	0.002738	1.72	53.34	69.60	0.47
fiomicello	fiomicello	36	Qalveo	20.00	310.47	312.25	312.04	312.56	0.007977	2.44	8.18	7.80	0.76

HEC-RAS Plan: 2017 Locations: User Defined (Continued)

River	Reach	River Sta	Profile	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m ²)	Top Width (m)	Froude # Chl
fiuicello	fiuicello	35	q30	46.20	310.20	312.55	312.12	312.61	0.001687	1.35	44.15	60.90	0.36
fiuicello	fiuicello	35	q200	64.00	310.20	312.65		312.74	0.002222	1.62	50.44	60.90	0.41
fiuicello	fiuicello	35	q500	72.10	310.20	312.70		312.81	0.002374	1.71	53.52	60.90	0.43
fiuicello	fiuicello	35	Qalveo	20.00	310.20	312.44		312.46	0.000484	0.69	37.67	60.90	0.19
fiuicello	fiuicello	34	q30	46.20	310.17	312.51		312.59	0.002405	1.65	40.64	64.38	0.43
fiuicello	fiuicello	34	q200	64.00	310.17	312.60		312.71	0.003131	1.95	46.52	64.38	0.49
fiuicello	fiuicello	34	q500	72.10	310.17	312.65		312.77	0.003268	2.04	49.72	64.38	0.50
fiuicello	fiuicello	34	Qalveo	20.00	310.17	312.43		312.45	0.000641	0.82	35.77	64.36	0.22
fiuicello	fiuicello	33	q30	46.20	310.06	312.27	312.27	312.54	0.007443	2.86	23.62	37.87	0.75
fiuicello	fiuicello	33	q200	64.00	310.06	312.44	312.43	312.66	0.006027	2.77	36.17	61.88	0.69
fiuicello	fiuicello	33	q500	72.10	310.06	312.51	312.47	312.73	0.005551	2.73	40.62	61.88	0.66
fiuicello	fiuicello	33	Qalveo	20.00	310.06	311.90	311.90	312.39	0.012230	3.14	6.69	7.08	0.92
fiuicello	fiuicello	32	q30	46.20	309.80	312.31	312.06	312.45	0.002336	1.91	33.10	37.83	0.46
fiuicello	fiuicello	32	q200	64.00	309.80	312.46	312.21	312.60	0.002461	2.07	45.81	57.52	0.47
fiuicello	fiuicello	32	q500	72.10	309.80	312.52	312.27	312.67	0.002559	2.15	49.27	57.52	0.49
fiuicello	fiuicello	32	Qalveo	20.00	309.80	311.97	311.34	312.05	0.001494	1.33	20.51	36.32	0.35
fiuicello	fiuicello	31	q30	46.20	309.82	312.30		312.41	0.002695	1.94	37.05	57.92	0.46
fiuicello	fiuicello	31	q200	64.00	309.82	312.43		312.57	0.003055	2.16	44.70	57.92	0.49
fiuicello	fiuicello	31	q500	72.10	309.82	312.49		312.64	0.003120	2.23	48.17	57.92	0.50
fiuicello	fiuicello	31	Qalveo	20.00	309.82	311.83	311.83	312.01	0.004774	2.12	13.94	38.20	0.58
fiuicello	fiuicello	30	q30	46.20	309.75	312.30		312.38	0.001604	1.53	44.71	61.72	0.36
fiuicello	fiuicello	30	q200	64.00	309.75	312.43		312.53	0.001933	1.76	52.70	61.72	0.40
fiuicello	fiuicello	30	q500	72.10	309.75	312.49		312.59	0.002018	1.84	56.35	61.72	0.41
fiuicello	fiuicello	30	Qalveo	20.00	309.75	311.46	311.68	311.90	0.012079	2.94	7.10	13.38	0.91
fiuicello	fiuicello	29	q30	46.20	309.90	312.33		312.35	0.000348	0.85	73.02	64.90	0.19
fiuicello	fiuicello	29	q200	64.00	309.90	312.46		312.50	0.000480	1.04	81.68	64.90	0.23
fiuicello	fiuicello	29	q500	72.10	309.90	312.52		312.56	0.000530	1.11	85.58	64.90	0.24
fiuicello	fiuicello	29	Qalveo	20.00	309.90	311.36	310.86	311.42	0.001461	1.12	20.21	30.63	0.35
fiuicello	fiuicello	28.5	q30	46.20	309.90	312.33		312.35	0.000350	0.85	72.93	64.90	0.19
fiuicello	fiuicello	28.5	q200	64.00	309.90	312.46		312.50	0.000482	1.04	81.55	64.90	0.23
fiuicello	fiuicello	28.5	q500	72.10	309.90	312.52		312.56	0.000533	1.11	85.43	64.90	0.24
fiuicello	fiuicello	28.5	Qalveo	20.00	309.90	311.35		311.41	0.001499	1.13	20.00	30.36	0.35
fiuicello	fiuicello	28	q30	46.20	309.45	311.88	311.55	312.30	0.006640	2.89	16.73	18.78	0.74
fiuicello	fiuicello	28	q200	64.00	309.45	312.20	312.20	312.46	0.004036	2.55	37.06	64.94	0.59
fiuicello	fiuicello	28	q500	72.10	309.45	312.26	312.26	312.53	0.004205	2.65	40.51	64.94	0.61
fiuicello	fiuicello	28	Qalveo	20.00	309.45	311.10	310.81	311.36	0.006659	2.30	8.70	7.87	0.70
fiuicello	fiuicello	27	q30	46.20	309.24	311.47	311.47	312.17	0.012950	3.69	12.52	8.97	1.00
fiuicello	fiuicello	27	q200	64.00	309.24	311.87	312.02	312.35	0.008295	3.31	26.80	64.88	0.82
fiuicello	fiuicello	27	q500	72.10	309.24	311.91	312.07	312.43	0.009099	3.52	29.11	64.88	0.86
fiuicello	fiuicello	27	Qalveo	20.00	309.24	311.02	310.70	311.28	0.006352	2.28	8.76	7.61	0.68
fiuicello	fiuicello	26	q30	46.20	309.03	311.47	311.47	312.21	0.013398	3.81	12.14	8.17	1.00
fiuicello	fiuicello	26	q200	64.00	309.03	311.64	311.84	312.23	0.011600	3.77	25.10	66.62	0.94
fiuicello	fiuicello	26	q500	72.10	309.03	311.68	311.88	312.31	0.012435	3.96	27.49	66.62	0.98
fiuicello	fiuicello	26	Qalveo	20.00	309.03	310.67	310.65	311.16	0.013952	3.12	6.41	6.11	0.97
fiuicello	fiuicello	25	q30	46.20	308.96	311.83	311.28	311.90	0.001435	1.46	47.20	66.42	0.34
fiuicello	fiuicello	25	q200	64.00	308.96	311.54	311.69	312.13	0.011145	3.66	22.45	36.46	0.93
fiuicello	fiuicello	25	q500	72.10	308.96	311.58	311.73	312.24	0.012274	3.90	23.96	36.49	0.97
fiuicello	fiuicello	25	Qalveo	20.00	308.96	310.66	310.49	311.02	0.009344	2.64	7.59	6.94	0.80
fiuicello	fiuicello	24	q30	46.20	308.76	311.06	311.06	311.80	0.013388	3.81	12.13	8.19	1.00
fiuicello	fiuicello	24	q200	64.00	308.76	311.56	311.56	311.80	0.004524	2.56	37.96	66.31	0.60
fiuicello	fiuicello	24	q500	72.10	308.76	311.61	311.61	311.86	0.004824	2.69	40.81	66.31	0.62
fiuicello	fiuicello	24	Qalveo	20.00	308.76	310.66	310.25	310.91	0.005463	2.20	9.08	7.20	0.63
fiuicello	fiuicello	23	q30	46.20	308.70	310.98	311.20	311.60	0.012743	3.59	16.00	44.21	0.99
fiuicello	fiuicello	23	q200	64.00	308.70	311.18	311.35	311.69	0.010647	3.54	24.92	45.66	0.92
fiuicello	fiuicello	23	q500	72.10	308.70	311.24	311.39	311.72	0.009966	3.52	30.54	69.85	0.90
fiuicello	fiuicello	23	Qalveo	20.00	308.70	310.54	310.27	310.83	0.007180	2.39	8.38	7.52	0.72
fiuicello	fiuicello	22	q30	46.20	308.45	311.22	310.95	311.25	0.000968	1.11	65.96	116.57	0.27
fiuicello	fiuicello	22	q200	64.00	308.45	311.40	311.01	311.43	0.000854	1.12	86.74	116.57	0.26
fiuicello	fiuicello	22	q500	72.10	308.45	311.46	311.04	311.50	0.000832	1.13	94.79	116.57	0.26
fiuicello	fiuicello	22	Qalveo	20.00	308.45	310.19	310.16	310.70	0.014087	3.17	6.32	5.78	0.97
fiuicello	fiuicello	21	q30	46.20	308.28	310.91	310.91	311.21	0.006198	2.71	22.54	32.84	0.68
fiuicello	fiuicello	21	q200	64.00	308.28	311.11	311.11	311.39	0.005651	2.77	32.74	54.12	0.66
fiuicello	fiuicello	21	q500	72.10	308.28	311.16	311.16	311.46	0.005811	2.87	35.79	54.12	0.67
fiuicello	fiuicello	21	Qalveo	20.00	308.28	310.23	309.96	310.56	0.007940	2.55	7.85	6.45	0.74
fiuicello	fiuicello	20	q30	46.20	308.14	310.66	310.77	311.09	0.009410	3.20	19.07	32.22	0.82
fiuicello	fiuicello	20	q200	64.00	308.14	310.86	310.95	311.28	0.008765	3.30	25.58	33.20	0.80
fiuicello	fiuicello	20	q500	72.10	308.14	311.05	311.03	311.35	0.005871	2.89	34.28	51.12	0.67
fiuicello	fiuicello	20	Qalveo	20.00	308.14	309.99	309.86	310.42	0.011284	2.90	6.91	6.03	0.86
fiuicello	fiuicello	19	q30	46.20	308.20	310.37	310.55	310.93	0.011101	3.44	16.38	33.43	0.94
fiuicello	fiuicello	19	q200	64.00	308.20	310.96	310.71	311.13	0.002932	2.16	39.45	50.60	0.50
fiuicello	fiuicello	19	q500	72.10	308.20	311.10	310.78	311.25	0.002398	2.05	46.53	50.60	0.46
fiuicello	fiuicello	19	Qalveo	20.00	308.20	310.00	309.69	310.24	0.006168	2.19	9.15	8.52	0.67

HEC-RAS Plan: 2017 Locations: User Defined (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
fiumicello	fiumicello	18	q30	46.20	307.99	310.60	310.52	310.81	0.003792	2.32	27.78	48.52	0.56
fiumicello	fiumicello	18	q200	64.00	307.99	310.98	310.69	311.10	0.001902	1.87	46.02	48.52	0.41
fiumicello	fiumicello	18	q500	72.10	307.99	311.11	310.75	311.22	0.001625	1.80	52.55	48.52	0.38
fiumicello	fiumicello	18	Qalveo	20.00	307.99	309.93	309.57	310.18	0.005912	2.23	8.97	7.51	0.65
fiumicello	fiumicello	17	q30	46.20	307.95	310.62	310.28	310.76	0.002220	1.81	32.63	42.51	0.44
fiumicello	fiumicello	17	q200	64.00	307.95	310.97	310.52	311.08	0.001550	1.71	47.13	42.51	0.38
fiumicello	fiumicello	17	q500	72.10	307.95	311.10	310.59	311.21	0.001406	1.69	52.74	42.51	0.36
fiumicello	fiumicello	17	Qalveo	20.00	307.95	309.95	309.36	310.11	0.003357	1.79	11.17	8.77	0.51
fiumicello	fiumicello	16	q30	46.20	307.92	310.64	310.04	310.72	0.001263	1.45	39.49	35.45	0.32
fiumicello	fiumicello	16	q200	64.00	307.92	310.97	310.23	311.05	0.001135	1.51	50.98	35.45	0.31
fiumicello	fiumicello	16	q500	72.10	307.92	311.09	310.34	311.19	0.001110	1.55	55.52	35.45	0.31
fiumicello	fiumicello	16	Qalveo	20.00	307.92	309.99	309.33	310.06	0.001756	1.33	18.47	25.64	0.36
fiumicello	fiumicello	15	q30	46.20	307.95	310.62	310.06	310.71	0.001436	1.57	36.66	28.50	0.34
fiumicello	fiumicello	15	q200	64.00	307.95	310.93	310.21	311.04	0.001404	1.69	45.60	28.50	0.34
fiumicello	fiumicello	15	q500	72.10	307.95	311.05	310.28	311.17	0.001412	1.75	49.12	28.50	0.34
fiumicello	fiumicello	15	Qalveo	20.00	307.95	309.42	309.42	309.97	0.016157	3.28	6.09	5.58	1.00
fiumicello	fiumicello	14	q30	46.20	307.61	310.61	309.85	310.68	0.000946	1.39	40.69	27.00	0.29
fiumicello	fiumicello	14	q200	64.00	307.61	310.92	310.03	311.01	0.001018	1.56	49.08	27.00	0.31
fiumicello	fiumicello	14	q500	72.10	307.61	311.04	310.10	311.14	0.001055	1.64	52.39	27.00	0.31
fiumicello	fiumicello	14	Qalveo	20.00	307.61	309.05	309.15	309.65	0.020452	3.43	5.83	6.49	1.16
fiumicello	fiumicello	13	q30	46.20	307.56	310.62	309.70	310.66	0.000570	1.19	50.83	37.64	0.23
fiumicello	fiumicello	13	q200	64.00	307.56	310.93	309.87	310.99	0.000586	1.30	62.80	37.64	0.24
fiumicello	fiumicello	13	q500	72.10	307.56	311.06	309.93	311.12	0.000598	1.35	67.54	37.64	0.24
fiumicello	fiumicello	13	Qalveo	20.00	307.56	309.13	309.13	309.51	0.009131	2.84	8.31	13.54	0.81
fiumicello	fiumicello	12	q30	46.20	307.44	310.63	309.31	310.65	0.000267	0.86	67.54	44.31	0.16
fiumicello	fiumicello	12	q200	64.00	307.44	310.95	309.48	310.98	0.000291	0.97	81.71	44.31	0.17
fiumicello	fiumicello	12	q500	72.10	307.44	311.07	309.56	311.11	0.000302	1.01	87.33	44.31	0.18
fiumicello	fiumicello	12	Qalveo	20.00	307.44	308.40	308.68	309.27	0.038273	4.12	4.85	6.92	1.57
fiumicello	fiumicello	11	q30	46.20	306.63	310.45	309.09	310.63	0.001717	1.96	28.34	34.83	0.39
fiumicello	fiumicello	11	q200	64.00	306.63	310.80	309.54	310.96	0.001510	1.99	40.21	34.83	0.37
fiumicello	fiumicello	11	q500	72.10	306.63	310.93	309.72	311.09	0.001440	2.01	44.82	34.83	0.36
fiumicello	fiumicello	11	Qalveo	20.00	306.63	308.70	308.23	308.96	0.005463	2.30	8.91	6.35	0.61
fiumicello	fiumicello	10	q30	46.20	306.55	310.50	308.84	310.55	0.000542	1.12	51.79	56.25	0.23
fiumicello	fiumicello	10	q200	64.00	306.55	310.83	309.20	310.89	0.000514	1.19	70.65	56.25	0.23
fiumicello	fiumicello	10	q500	72.10	306.55	310.96	309.34	311.02	0.000506	1.21	78.04	56.25	0.23
fiumicello	fiumicello	10	Qalveo	20.00	306.55	308.66	308.12	308.82	0.003570	1.79	11.19	9.46	0.52
fiumicello	fiumicello	9.5	Bridge										
fiumicello	fiumicello	9	q30	46.20	306.38	308.51	308.51	309.14	0.012545	3.52	13.11	10.31	1.00
fiumicello	fiumicello	9	q200	64.00	306.38	308.86	308.86	309.59	0.012127	3.78	16.94	11.67	1.00
fiumicello	fiumicello	9	q500	72.10	306.38	309.00	309.00	309.76	0.011897	3.87	18.65	12.23	1.00
fiumicello	fiumicello	9	Qalveo	20.00	306.38	307.71	307.79	308.26	0.018303	3.27	6.11	7.19	1.13
fiumicello	fiumicello	8	q30	46.20	304.65	306.09	306.80	308.35	0.062369	6.66	6.94	6.72	2.09
fiumicello	fiumicello	8	q200	64.00	304.65	306.43	307.19	308.81	0.052593	6.83	9.38	7.60	1.96
fiumicello	fiumicello	8	q500	72.10	304.65	306.57	307.35	308.99	0.049494	6.89	10.47	7.96	1.92
fiumicello	fiumicello	8	Qalveo	20.00	304.65	307.25	306.02	307.33	0.001121	1.21	16.46	9.72	0.30
fiumicello	fiumicello	7	q30	46.20	304.45	307.55	306.57	307.78	0.002858	2.15	21.53	10.66	0.48
fiumicello	fiumicello	7	q200	64.00	304.45	308.02	306.96	308.31	0.003052	2.39	26.79	11.78	0.51
fiumicello	fiumicello	7	q500	72.10	304.45	308.20	307.11	308.52	0.003136	2.49	28.99	12.22	0.52
fiumicello	fiumicello	7	Qalveo	20.00	304.45	307.25	305.78	307.31	0.000810	1.08	18.46	9.95	0.25
fiumicello	fiumicello	6	q30	46.20	304.56	306.97	306.93	307.67	0.012485	3.70	12.47	8.36	0.97
fiumicello	fiumicello	6	q200	64.00	304.56	307.34	307.34	308.18	0.012890	4.07	15.73	9.33	1.00
fiumicello	fiumicello	6	q500	72.10	304.56	307.51	307.51	308.39	0.012612	4.16	17.34	9.78	1.00
fiumicello	fiumicello	6	Qalveo	20.00	304.56	307.19	306.12	307.29	0.001597	1.39	14.39	8.95	0.35
fiumicello	fiumicello	5	q30	46.20	303.98	307.29	306.08	307.46	0.001935	1.83	25.25	12.25	0.41
fiumicello	fiumicello	5	q200	64.00	303.98	307.41	306.46	307.70	0.003186	2.39	26.74	12.58	0.52
fiumicello	fiumicello	5	q500	72.10	303.98	307.51	306.61	307.85	0.003553	2.57	28.06	12.87	0.56
fiumicello	fiumicello	5	Qalveo	20.00	303.98	307.23	305.32	307.26	0.000392	0.82	24.52	12.08	0.18
fiumicello	fiumicello	4	q30	46.20	303.82	307.28	305.96	307.44	0.001806	1.80	25.69	11.89	0.39
fiumicello	fiumicello	4	q200	64.00	303.82	307.39	306.36	307.67	0.003034	2.37	27.01	12.17	0.51
fiumicello	fiumicello	4	q500	72.10	303.82	307.49	306.52	307.82	0.003420	2.55	28.23	12.43	0.54
fiumicello	fiumicello	4	Qalveo	20.00	303.82	307.23	305.18	307.26	0.000360	0.80	25.10	11.76	0.17
fiumicello	fiumicello	3	q30	46.20	303.68	307.15	306.12	307.41	0.003137	2.24	20.64	9.68	0.49
fiumicello	fiumicello	3	q200	64.00	303.68	307.07	306.54	307.60	0.006665	3.22	19.87	9.51	0.71
fiumicello	fiumicello	3	q500	72.10	303.68	307.01	306.73	307.72	0.009116	3.73	19.32	9.38	0.83
fiumicello	fiumicello	3	Qalveo	20.00	303.68	307.21	305.25	307.25	0.000549	0.94	21.19	9.80	0.20
fiumicello	fiumicello	2	q30	46.20	303.62	307.15	305.92	307.36	0.002333	2.00	23.16	10.46	0.43
fiumicello	fiumicello	2	q200	64.00	303.62	307.07	306.34	307.49	0.004945	2.87	22.31	10.28	0.62
fiumicello	fiumicello	2	q500	72.10	303.62	307.01	306.51	307.57	0.006762	3.32	21.69	10.14	0.73
fiumicello	fiumicello	2	Qalveo	20.00	303.62	307.21	305.08	307.25	0.000409	0.84	23.74	10.58	0.18
fiumicello	fiumicello	1	q30	46.20	303.47	307.22	305.51	307.31	0.000865	1.32	35.08	15.93	0.28
fiumicello	fiumicello	1	q200	64.00	303.47	307.22	305.87	307.39	0.001660	1.82	35.08	15.93	0.39
fiumicello	fiumicello	1	q500	72.10	303.47	307.22	306.01	307.44	0.002106	2.06	35.08	15.93	0.44

HEC-RAS Plan: 2017 Locations: User Defined (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
fiumicello	fiumicello	1	Galveo	20.00	303.47	307.22	304.79	307.24	0.000162	0.57	35.08	15.93	0.12

HEC-RAS Plan: 2017 Locations: User Defined

River	Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Vel Head (m)	Frctn Loss (m)	C & E Loss (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Top Width (m)
fiumicello	fiumicello	52.3	q30	316.49	316.46	0.03	0.00	0.01	22.49	18.03	5.58	41.24
fiumicello	fiumicello	52.3	q200	316.54	316.48	0.06	0.00	0.06	31.13	24.82	7.85	41.40
fiumicello	fiumicello	52.3	q500	316.61	316.53	0.07	0.01	0.06	35.15	27.63	9.21	41.80
fiumicello	fiumicello	52.3	Qalveo	315.56	315.33	0.22	0.02	0.00	0.00	20.00		8.67
fiumicello	fiumicello	52	q30	316.48	316.41	0.07	0.05	0.19	8.58	27.10	10.42	65.55
fiumicello	fiumicello	52	q200	316.48	316.23	0.25	0.05	0.06	9.51	45.08	9.20	65.55
fiumicello	fiumicello	52	q500	316.54	316.27	0.27	0.06	0.06	11.48	48.57	11.95	65.55
fiumicello	fiumicello	52	Qalveo	315.54	315.31	0.22	0.09	0.01		20.00		7.82
fiumicello	fiumicello	51	q30	316.24	315.54	0.70	0.04	0.30		46.10		8.85
fiumicello	fiumicello	51	q200	316.32	316.20	0.13	0.02	0.02	23.07	34.31	6.41	55.88
fiumicello	fiumicello	51	q500	316.36	316.20	0.16	0.05	0.07	26.04	38.72	7.24	55.88
fiumicello	fiumicello	51	Qalveo	315.44	315.24	0.21	0.08	0.09		20.00		8.05
fiumicello	fiumicello	50	q30	315.52	315.43	0.09	0.02	0.01	31.57	14.63		26.92
fiumicello	fiumicello	50	q200	315.98	315.90	0.08	0.01	0.01	43.74	18.24	2.02	57.88
fiumicello	fiumicello	50	q500	315.49	315.10	0.39	0.07	0.08	46.27	25.83		26.41
fiumicello	fiumicello	50	Qalveo	315.28	314.76	0.51	0.24	0.00	0.12	19.88		6.54
fiumicello	fiumicello	49	q30	315.49	315.45	0.04	0.02	0.06	33.59	12.61		29.10
fiumicello	fiumicello	49	q200	315.95	315.91	0.04	0.02	0.07	43.74	16.29	3.97	59.53
fiumicello	fiumicello	49	q500	315.35	315.21	0.13	0.02	0.02	51.98	20.12		28.78
fiumicello	fiumicello	49	Qalveo	314.92	314.10	0.82	0.32	0.03		20.00		5.67
fiumicello	fiumicello	48	q30	315.41	314.75	0.66	0.01	0.19		46.20		9.72
fiumicello	fiumicello	48	q200	315.87	315.12	0.75	0.03	0.20	0.10	63.90		11.97
fiumicello	fiumicello	48	q500	315.31	315.25	0.06	0.01	0.00	54.45	17.65		37.06
fiumicello	fiumicello	48	Qalveo	314.53	314.23	0.30	0.11	0.01		20.00		7.87
fiumicello	fiumicello	47	q30	315.03	315.01	0.03	0.01	0.06	36.37	9.83		36.20
fiumicello	fiumicello	47	q200	314.66	314.57	0.08	0.01	0.00	50.49	13.51		35.44
fiumicello	fiumicello	47	q500	314.68	314.58	0.10	0.02	0.01	56.88	15.22		35.44
fiumicello	fiumicello	47	Qalveo	314.40	313.98	0.42	0.08	0.07		20.00		6.91
fiumicello	fiumicello	46	q30	314.96	314.34	0.62	0.03	0.17		46.20		10.66
fiumicello	fiumicello	46	q200	314.64	314.57	0.07	0.02	0.00	47.36	16.64		37.52
fiumicello	fiumicello	46	q500	314.66	314.57	0.09	0.02	0.00	53.35	18.75		37.52
fiumicello	fiumicello	46	Qalveo	314.25	314.06	0.19	0.09	0.03		20.00		9.52
fiumicello	fiumicello	45	q30	314.31	314.25	0.06	0.02	0.01	35.41	10.79		32.45
fiumicello	fiumicello	45	q200	314.36	314.25	0.11	0.05	0.02	49.06	14.94		32.45
fiumicello	fiumicello	45	q500	314.38	314.25	0.13	0.06	0.02	55.27	16.83		32.45
fiumicello	fiumicello	45	Qalveo	314.12	313.60	0.52	0.02	0.15	0.00	20.00		6.08
fiumicello	fiumicello	44	q30	313.71	313.55	0.16	0.04	0.02	33.03	13.17		31.26
fiumicello	fiumicello	44	q200	313.85	313.55	0.30	0.07	0.03	45.76	18.24		31.26
fiumicello	fiumicello	44	q500	313.93	313.55	0.38	0.09	0.04	51.55	20.55		31.26
fiumicello	fiumicello	44	Qalveo	313.82	313.80	0.02	0.01	0.04	14.81	5.19		31.62
fiumicello	fiumicello	43	q30	313.60	313.50	0.10	0.05	0.00	34.51	11.69		33.66
fiumicello	fiumicello	43	q200	313.69	313.50	0.19	0.09	0.00	47.81	16.19		33.66
fiumicello	fiumicello	43	q500	313.74	313.50	0.24	0.10	0.00	53.86	18.24		33.66
fiumicello	fiumicello	43	Qalveo	313.77	313.38	0.39	0.18	0.01		20.00		6.71
fiumicello	fiumicello	42	q30	313.30	313.18	0.12	0.06	0.00	34.27	11.93		35.50
fiumicello	fiumicello	42	q200	313.41	313.18	0.23	0.09	0.02	47.47	16.53		35.50
fiumicello	fiumicello	42	q500	313.50	313.24	0.26	0.09	0.03	54.02	18.08		35.55
fiumicello	fiumicello	42	Qalveo	313.57	313.05	0.53	0.03	0.15		20.00		5.90
fiumicello	fiumicello	41	q30	313.11	312.99	0.11	0.04	0.00	35.82	10.38		38.05
fiumicello	fiumicello	41	q200	313.29	313.13	0.16	0.06	0.00	50.73	13.27		38.18
fiumicello	fiumicello	41	q500	313.38	313.21	0.17	0.05	0.00	57.76	14.34		38.27
fiumicello	fiumicello	41	Qalveo	313.03	313.01	0.02	0.01	0.00	15.56	4.44		38.07
fiumicello	fiumicello	40	q30	313.06	312.94	0.12	0.03	0.01	33.57	12.63		33.11
fiumicello	fiumicello	40	q200	313.23	313.04	0.19	0.04	0.02	47.29	16.71		33.19
fiumicello	fiumicello	40	q500	313.32	313.12	0.21	0.04	0.02	53.85	18.25		33.26
fiumicello	fiumicello	40	Qalveo	313.02	313.00	0.02	0.00	0.00	14.70	5.30		33.16
fiumicello	fiumicello	39	q30	312.95	312.86	0.09	0.04	0.01	34.14	12.06		35.75
fiumicello	fiumicello	39	q200	313.17	313.04	0.12	0.06	0.02	48.68	15.32		35.95
fiumicello	fiumicello	39	q500	313.26	313.12	0.14	0.06	0.03	55.38	16.72		36.03
fiumicello	fiumicello	39	Qalveo	313.02	313.00	0.01	0.01	0.05	15.13	4.87		35.90
fiumicello	fiumicello	38	q30	312.90	312.69	0.21	0.06	0.02	27.65	18.55		31.03
fiumicello	fiumicello	38	q200	313.09	312.72	0.36	0.11	0.03	38.93	25.07		31.07
fiumicello	fiumicello	38	q500	313.18	312.78	0.40	0.12	0.03	44.92	27.18		31.13
fiumicello	fiumicello	38	Qalveo	312.96	312.43	0.52	0.03	0.15		20.00		6.08
fiumicello	fiumicello	37	q30	312.76	312.63	0.13	0.02	0.02	29.78	16.42		34.05

HEC-RAS Plan: 2017 Locations: User Defined (Continued)

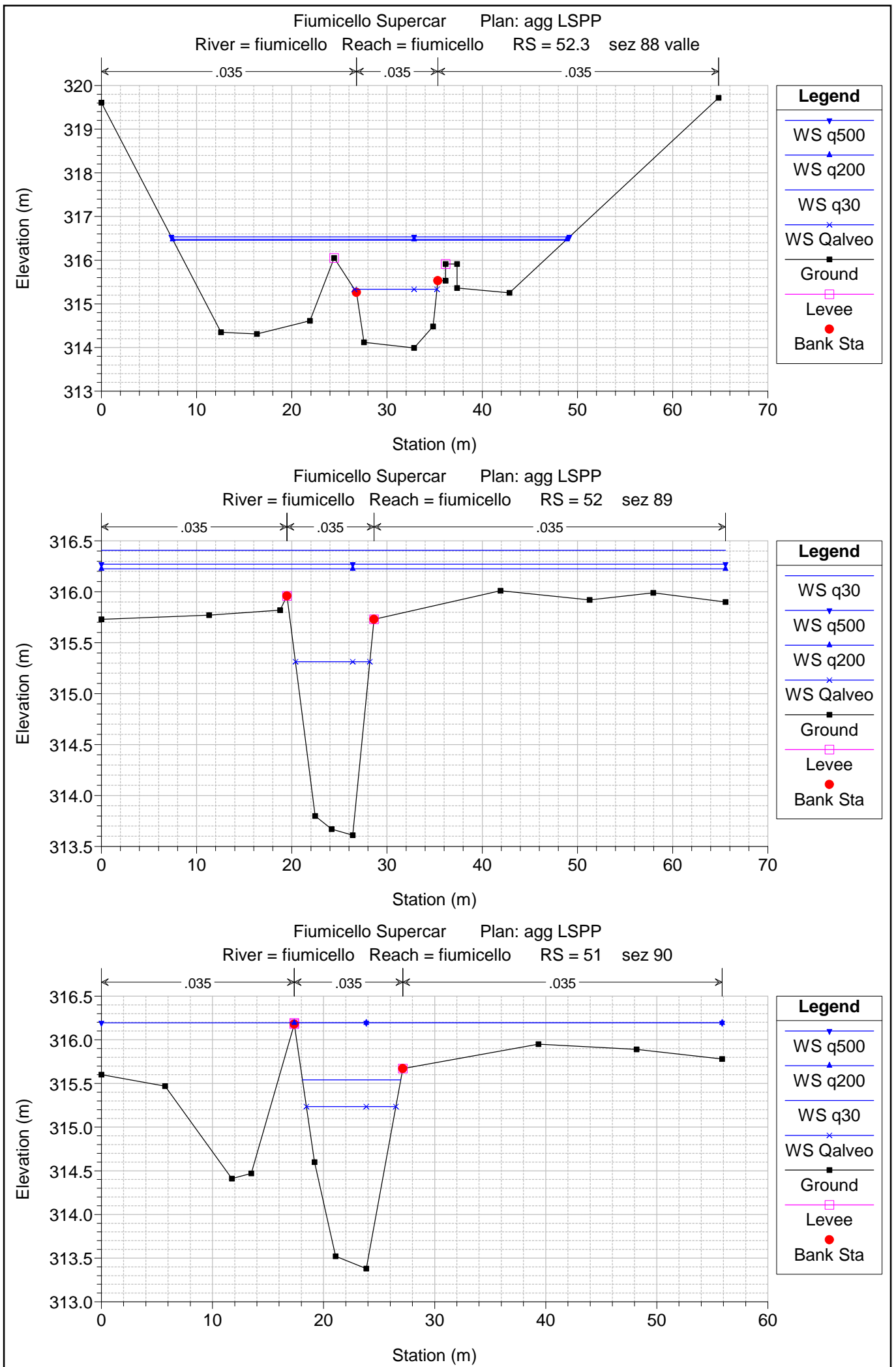
River	Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Vel Head (m)	Frctn Loss (m)	C & E Loss (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Top Width (m)
fiumicello	fiumicello	37	q200	312.87	312.61	0.26	0.05	0.05	40.95	23.05		34.00
fiumicello	fiumicello	37	q500	312.94	312.64	0.30	0.05	0.06	46.60	25.50		34.08
fiumicello	fiumicello	37	Qalveo	312.61	312.58	0.03	0.02	0.03	12.66	7.34		33.92
fiumicello	fiumicello	36	q30	312.71	312.66	0.05	0.02	0.00	27.68	14.05	4.47	69.60
fiumicello	fiumicello	36	q200	312.77	312.67	0.10	0.03	0.00	38.24	19.27	6.49	69.60
fiumicello	fiumicello	36	q500	312.84	312.73	0.11	0.03	0.00	42.63	20.93	8.54	69.60
fiumicello	fiumicello	36	Qalveo	312.56	312.25	0.30	0.01	0.09		20.00		7.80
fiumicello	fiumicello	35	q30	312.61	312.55	0.06	0.02	0.00	30.70	13.14	2.36	60.90
fiumicello	fiumicello	35	q200	312.74	312.65	0.09	0.03	0.00	42.23	16.90	4.87	60.90
fiumicello	fiumicello	35	q500	312.81	312.70	0.10	0.03	0.00	47.37	18.42	6.31	60.90
fiumicello	fiumicello	35	Qalveo	312.46	312.44	0.02	0.01	0.00	13.31	6.20	0.49	60.90
fiumicello	fiumicello	34	q30	312.59	312.51	0.08	0.04	0.02	24.27	16.82	5.10	64.38
fiumicello	fiumicello	34	q200	312.71	312.60	0.12	0.04	0.01	33.94	21.16	8.90	64.38
fiumicello	fiumicello	34	q500	312.77	312.65	0.13	0.04	0.01	38.35	22.74	11.01	64.38
fiumicello	fiumicello	34	Qalveo	312.45	312.43	0.02	0.02	0.05	10.36	7.97	1.66	64.36
fiumicello	fiumicello	33	q30	312.54	312.27	0.27	0.04	0.04	20.85	23.21	2.14	37.87
fiumicello	fiumicello	33	q200	312.66	312.44	0.22	0.04	0.03	31.07	25.01	7.92	61.88
fiumicello	fiumicello	33	q500	312.73	312.51	0.22	0.04	0.02	35.47	25.76	10.87	61.88
fiumicello	fiumicello	33	Qalveo	312.39	311.90	0.49	0.03	0.12		19.24	0.76	7.08
fiumicello	fiumicello	32	q30	312.45	312.31	0.13	0.03	0.01	16.31	27.76	2.13	37.83
fiumicello	fiumicello	32	q200	312.60	312.46	0.14	0.03	0.00	23.42	32.47	8.11	57.52
fiumicello	fiumicello	32	q500	312.67	312.52	0.15	0.03	0.00	26.95	34.84	10.31	57.52
fiumicello	fiumicello	32	Qalveo	312.05	311.97	0.07	0.03	0.01	3.78	15.63	0.60	36.32
fiumicello	fiumicello	31	q30	312.41	312.30	0.11	0.02	0.01	22.01	19.10	5.09	57.92
fiumicello	fiumicello	31	q200	312.57	312.43	0.14	0.03	0.01	31.63	22.84	9.54	57.92
fiumicello	fiumicello	31	q500	312.64	312.49	0.14	0.03	0.01	36.02	24.26	11.82	57.92
fiumicello	fiumicello	31	Qalveo	312.01	311.83	0.18	0.06	0.00	3.71	15.46	0.83	38.20
fiumicello	fiumicello	30	q30	312.38	312.30	0.07	0.01	0.01	22.13	19.03	5.04	61.72
fiumicello	fiumicello	30	q200	312.53	312.43	0.09	0.01	0.02	31.40	23.42	9.19	61.72
fiumicello	fiumicello	30	q500	312.59	312.49	0.10	0.01	0.02	35.63	25.14	11.33	61.72
fiumicello	fiumicello	30	Qalveo	311.90	311.46	0.44	0.09	0.03	0.15	19.85		13.38
fiumicello	fiumicello	29	q30	312.35	312.33	0.03	0.00	0.00	8.17	26.41	11.62	64.90
fiumicello	fiumicello	29	q200	312.50	312.46	0.04	0.00	0.00	12.56	34.50	16.94	64.90
fiumicello	fiumicello	29	q500	312.56	312.52	0.04	0.00	0.00	14.70	37.95	19.45	64.90
fiumicello	fiumicello	29	Qalveo	311.42	311.36	0.06	0.01	0.00	0.37	18.18	1.46	30.63
fiumicello	fiumicello	28.5	q30	312.35	312.33	0.03	0.01	0.04	8.16	26.43	11.61	64.90
fiumicello	fiumicello	28.5	q200	312.50	312.46	0.04	0.01	0.02	12.54	34.53	16.93	64.90
fiumicello	fiumicello	28.5	q500	312.56	312.52	0.04	0.01	0.02	14.68	37.98	19.43	64.90
fiumicello	fiumicello	28.5	Qalveo	311.41	311.35	0.06	0.03	0.02	0.35	18.21	1.44	30.36
fiumicello	fiumicello	28	q30	312.30	311.88	0.42	0.11	0.03	0.49	45.71		18.78
fiumicello	fiumicello	28	q200	312.46	312.20	0.26	0.05	0.00	7.93	48.56	7.51	64.94
fiumicello	fiumicello	28	q500	312.53	312.26	0.27	0.05	0.00	10.51	51.90	9.69	64.94
fiumicello	fiumicello	28	Qalveo	311.36	311.10	0.27	0.08	0.00		20.00		7.87
fiumicello	fiumicello	27	q30	312.17	311.47	0.69				46.20		8.97
fiumicello	fiumicello	27	q200	312.35	311.87	0.48	0.07	0.02	1.85	53.95	8.20	64.88
fiumicello	fiumicello	27	q500	312.43	311.91	0.52	0.07	0.03	3.12	58.54	10.44	64.88
fiumicello	fiumicello	27	Qalveo	311.28	311.02	0.27	0.10	0.02		20.00		7.61
fiumicello	fiumicello	26	q30	312.21	311.47	0.74	0.14	0.00		46.20		8.17
fiumicello	fiumicello	26	q200	312.23	311.64	0.59	0.11	0.01	2.95	51.10	9.95	66.62
fiumicello	fiumicello	26	q500	312.31	311.68	0.63	0.12	0.01	4.64	54.86	12.60	66.62
fiumicello	fiumicello	26	Qalveo	311.16	310.67	0.50	0.10	0.04		20.00		6.11
fiumicello	fiumicello	25	q30	311.90	311.83	0.07	0.03	0.07	9.19	25.53	11.48	66.42
fiumicello	fiumicello	25	q200	312.13	311.54	0.59	0.10	0.00		54.08	9.92	36.46
fiumicello	fiumicello	25	q500	312.24	311.58	0.65	0.09	0.06		59.03	13.07	36.49
fiumicello	fiumicello	25	Qalveo	311.02	310.66	0.35	0.07	0.03		20.00		6.94
fiumicello	fiumicello	24	q30	311.80	311.06	0.74	0.10	0.15		46.20		8.19
fiumicello	fiumicello	24	q200	311.80	311.56	0.24	0.06	0.00	7.99	42.32	13.69	66.31
fiumicello	fiumicello	24	q500	311.86	311.61	0.26	0.06	0.00	10.30	45.41	16.40	66.31
fiumicello	fiumicello	24	Qalveo	310.91	310.66	0.25	0.08	0.00		20.00		7.20
fiumicello	fiumicello	23	q30	311.60	310.98	0.62	0.16	0.04		43.22	2.98	44.21
fiumicello	fiumicello	23	q200	311.69	311.18	0.51	0.08	0.03	0.01	49.06	14.94	45.66
fiumicello	fiumicello	23	q500	311.72	311.24	0.47	0.09	0.03	1.97	50.71	19.43	69.85
fiumicello	fiumicello	23	Qalveo	310.83	310.54	0.29	0.11	0.02		20.00		7.52
fiumicello	fiumicello	22	q30	311.25	311.22	0.03	0.02	0.03	0.63	15.00	30.57	116.57
fiumicello	fiumicello	22	q200	311.43	311.40	0.03	0.02	0.02	2.62	16.59	44.78	116.57

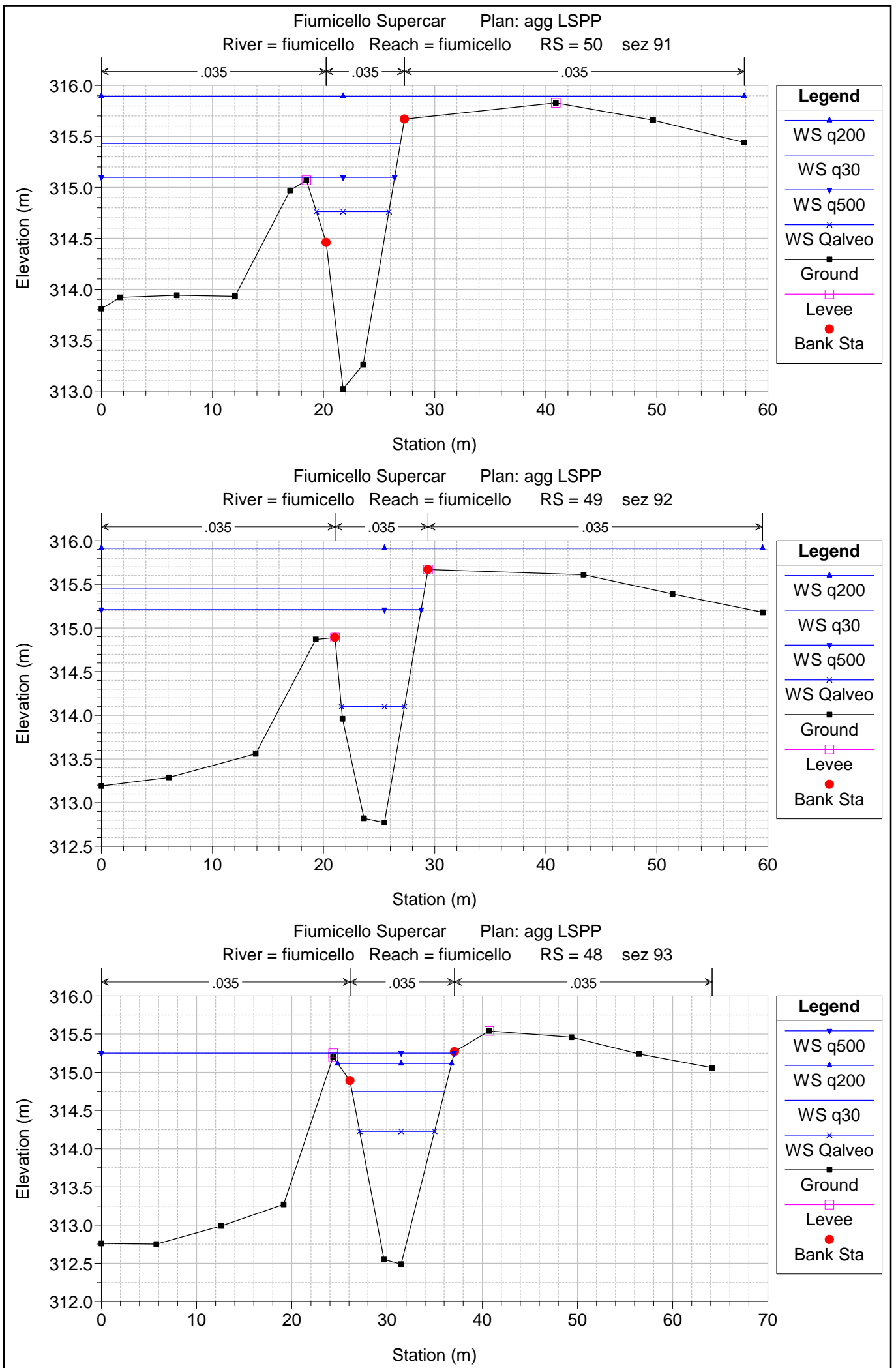
HEC-RAS Plan: 2017 Locations: User Defined (Continued)

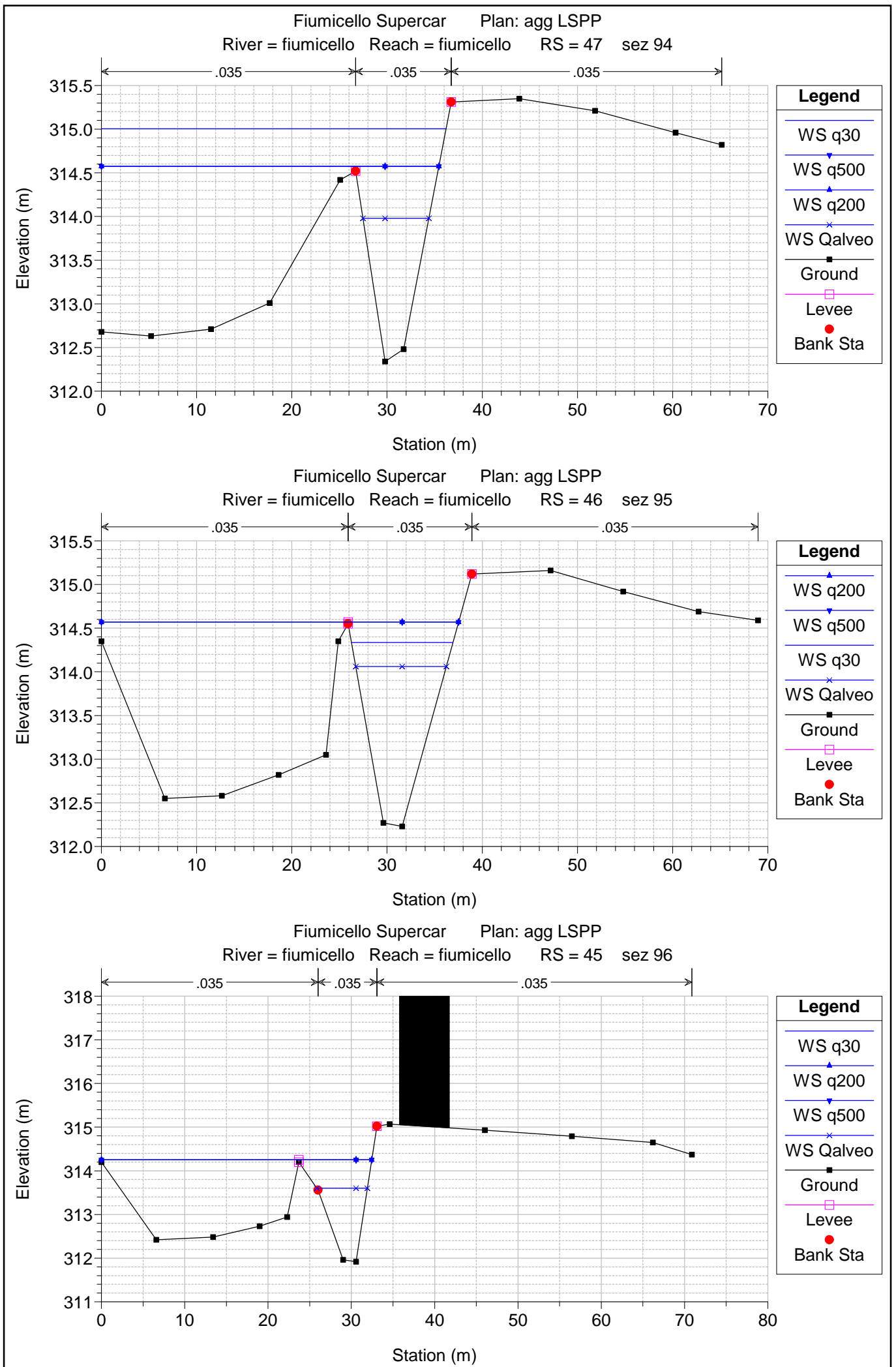
River	Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Vel Head (m)	Frctn Loss (m)	C & E Loss (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Top Width (m)
fiomicello	fiomicello	22	q500	311.50	311.46	0.03	0.01	0.03	3.65	17.38	51.08	116.57
fiomicello	fiomicello	22	Qalveo	310.70	310.19	0.51	0.09	0.05		20.00		5.78
fiomicello	fiomicello	21	q30	311.21	310.91	0.30	0.09	0.00		34.63	11.57	32.84
fiomicello	fiomicello	21	q200	311.39	311.11	0.28	0.08	0.00	2.47	39.82	21.71	54.12
fiomicello	fiomicello	21	q500	311.46	311.16	0.30	0.08	0.00	3.98	42.49	25.63	54.12
fiomicello	fiomicello	21	Qalveo	310.56	310.23	0.33	0.13	0.01		20.00		6.45
fiomicello	fiomicello	20	q30	311.09	310.66	0.43	0.10	0.01		36.68	9.52	32.22
fiomicello	fiomicello	20	q200	311.28	310.86	0.42	0.10	0.01	0.00	42.77	21.23	33.20
fiomicello	fiomicello	20	q500	311.35	311.05	0.30	0.05	0.05	1.66	41.46	28.98	51.12
fiomicello	fiomicello	20	Qalveo	310.42	309.99	0.43	0.12	0.06		20.00		6.03
fiomicello	fiomicello	19	q30	310.93	310.37	0.56	0.15	0.01		42.64	3.56	33.43
fiomicello	fiomicello	19	q200	311.13	310.96	0.17	0.02	0.02	2.19	38.68	23.13	50.60
fiomicello	fiomicello	19	q500	311.25	311.10	0.15	0.02	0.01	4.96	39.45	27.69	50.60
fiomicello	fiomicello	19	Qalveo	310.24	310.00	0.24	0.06	0.00		20.00		8.52
fiomicello	fiomicello	18	q30	310.81	310.60	0.21	0.03	0.02	2.38	33.16	10.66	48.52
fiomicello	fiomicello	18	q200	311.10	310.98	0.12	0.02	0.00	11.07	32.39	20.54	48.52
fiomicello	fiomicello	18	q500	311.22	311.11	0.11	0.01	0.00	14.64	33.13	24.33	48.52
fiomicello	fiomicello	18	Qalveo	310.18	309.93	0.25	0.04	0.03		20.00		7.51
fiomicello	fiomicello	17	q30	310.76	310.62	0.13	0.02	0.02	1.77	32.03	12.41	42.51
fiomicello	fiomicello	17	q200	311.08	310.97	0.11	0.01	0.01	7.98	35.94	20.08	42.51
fiomicello	fiomicello	17	q500	311.21	311.10	0.11	0.01	0.00	10.93	37.89	23.28	42.51
fiomicello	fiomicello	17	Qalveo	310.11	309.95	0.16	0.03	0.03		20.00		8.77
fiomicello	fiomicello	16	q30	310.72	310.64	0.08	0.02	0.00	3.06	25.80	17.34	35.45
fiomicello	fiomicello	16	q200	311.05	310.97	0.09	0.02	0.00	7.18	31.17	25.64	35.45
fiomicello	fiomicello	16	q500	311.19	311.09	0.09	0.02	0.00	9.11	33.63	29.36	35.45
fiomicello	fiomicello	16	Qalveo	310.06	309.99	0.08	0.05	0.05		16.17	3.83	25.64
fiomicello	fiomicello	15	q30	310.71	310.62	0.09	0.02	0.00	0.12	20.69	25.38	28.50
fiomicello	fiomicello	15	q200	311.04	310.93	0.11	0.02	0.00	0.30	25.52	38.18	28.50
fiomicello	fiomicello	15	q500	311.17	311.05	0.12	0.02	0.00	0.38	27.71	44.01	28.50
fiomicello	fiomicello	15	Qalveo	309.97	309.42	0.55	0.23	0.05		20.00		5.58
fiomicello	fiomicello	14	q30	310.68	310.61	0.07	0.01	0.01	0.21	23.79	22.20	27.00
fiomicello	fiomicello	14	q200	311.01	310.92	0.09	0.01	0.01	0.39	30.39	33.22	27.00
fiomicello	fiomicello	14	q500	311.14	311.04	0.10	0.01	0.01	0.47	33.36	38.27	27.00
fiomicello	fiomicello	14	Qalveo	309.65	309.05	0.60	0.31	0.01		20.00		6.49
fiomicello	fiomicello	13	q30	310.66	310.62	0.05	0.00	0.01	4.18	16.40	25.63	37.64
fiomicello	fiomicello	13	q200	310.99	310.93	0.06	0.00	0.01	8.51	19.95	35.53	37.64
fiomicello	fiomicello	13	q500	311.12	311.06	0.06	0.00	0.01	10.56	21.54	39.99	37.64
fiomicello	fiomicello	13	Qalveo	309.51	309.13	0.38	0.11	0.00	0.03	17.97	2.00	13.54
fiomicello	fiomicello	12	q30	310.65	310.63	0.03	0.01	0.01	6.39	18.80	21.01	44.31
fiomicello	fiomicello	12	q200	310.98	310.95	0.03	0.01	0.01	12.03	23.41	28.56	44.31
fiomicello	fiomicello	12	q500	311.11	311.07	0.04	0.01	0.01	14.71	25.46	31.93	44.31
fiomicello	fiomicello	12	Qalveo	309.27	308.40	0.87	0.19	0.05		20.00		6.92
fiomicello	fiomicello	11	q30	310.63	310.45	0.17	0.02	0.06	3.48	40.12	2.60	34.83
fiomicello	fiomicello	11	q200	310.96	310.80	0.16	0.02	0.05	11.63	46.05	6.32	34.83
fiomicello	fiomicello	11	q500	311.09	310.93	0.16	0.02	0.05	15.49	48.35	8.26	34.83
fiomicello	fiomicello	11	Qalveo	308.96	308.70	0.26	0.09	0.05		18.74	1.26	6.35
fiomicello	fiomicello	10	q30	310.55	310.50	0.05			7.21	38.42	0.58	56.25
fiomicello	fiomicello	10	q200	310.89	310.83	0.06			13.54	46.46	4.00	56.25
fiomicello	fiomicello	10	q500	311.02	310.96	0.06			16.39	49.82	5.89	56.25
fiomicello	fiomicello	10	Qalveo	308.82	308.66	0.16	0.00	0.13		20.00		9.46
fiomicello	fiomicello	9.5		Bridge								
fiomicello	fiomicello	9	q30	309.14	308.51	0.63	0.08	0.17		46.20		10.31
fiomicello	fiomicello	9	q200	309.59	308.86	0.73	0.08	0.19		64.00		11.67
fiomicello	fiomicello	9	q500	309.76	309.00	0.76	0.08	0.20		72.10		12.23
fiomicello	fiomicello	9	Qalveo	308.26	307.71	0.55	0.00	0.13		20.00		7.19
fiomicello	fiomicello	8	q30	308.35	306.09	2.26	0.31	0.49		46.20		6.72
fiomicello	fiomicello	8	q200	308.81	306.43	2.37	0.29	0.49		64.00		7.60
fiomicello	fiomicello	8	q500	308.99	306.57	2.42	0.28	0.50		72.10		7.96
fiomicello	fiomicello	8	Qalveo	307.33	307.25	0.08	0.01	0.01		20.00		9.72
fiomicello	fiomicello	7	q30	307.78	307.55	0.23	0.07	0.05		46.20		10.66
fiomicello	fiomicello	7	q200	308.31	308.02	0.29	0.07	0.06		64.00		11.78
fiomicello	fiomicello	7	q500	308.52	308.20	0.32	0.07	0.06		72.10		12.22
fiomicello	fiomicello	7	Qalveo	307.31	307.25	0.06	0.01	0.00		20.00		9.95
fiomicello	fiomicello	6	q30	307.67	306.97	0.70	0.05	0.16		46.20		8.36

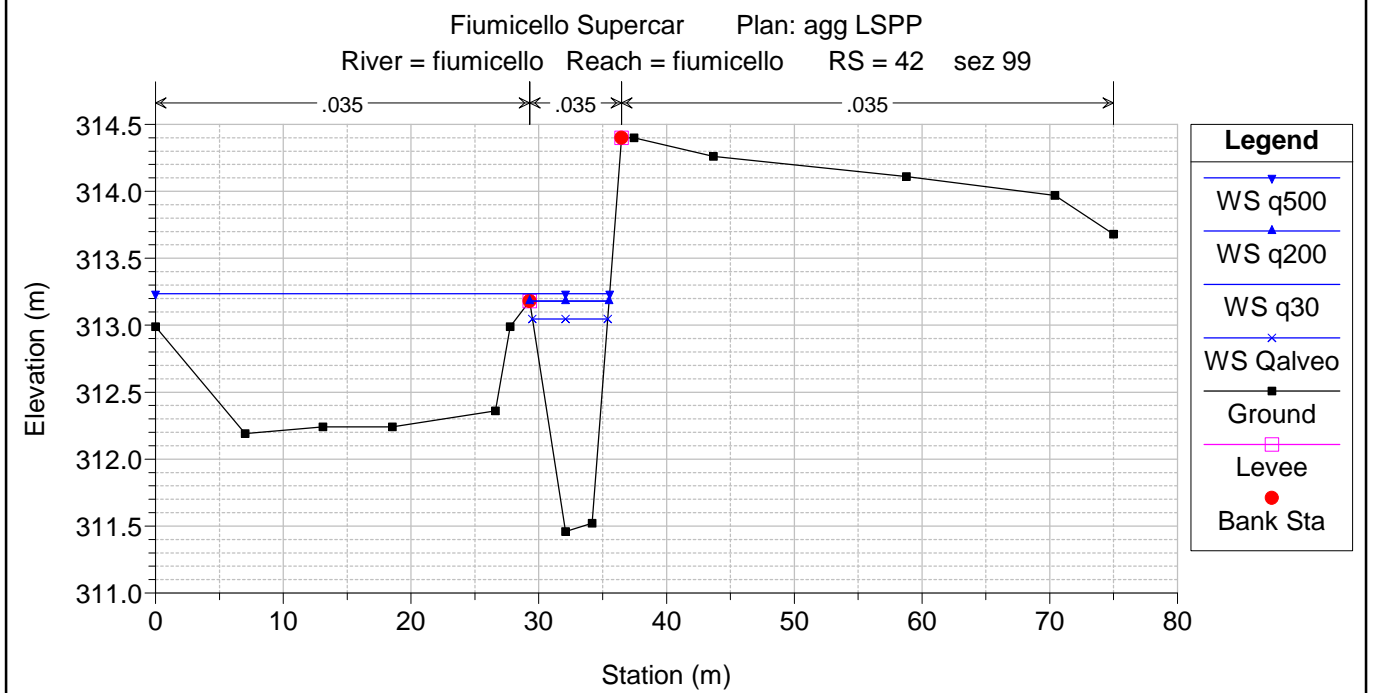
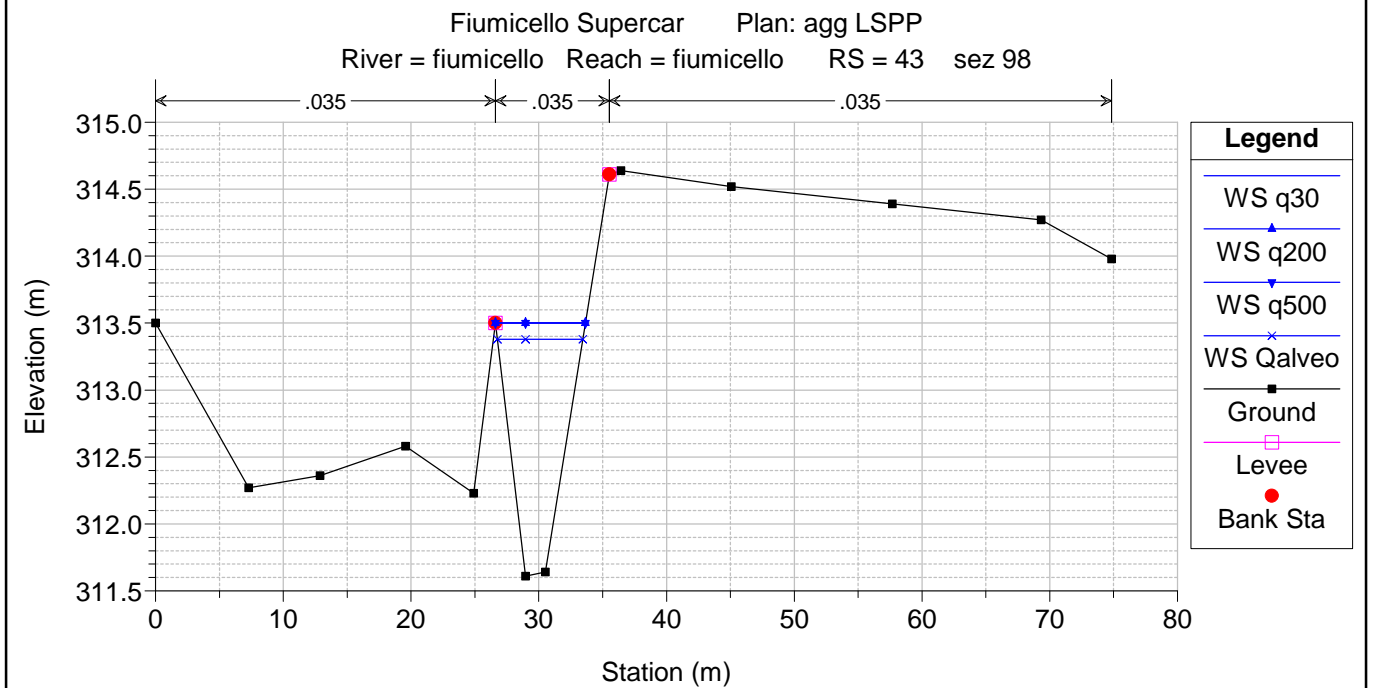
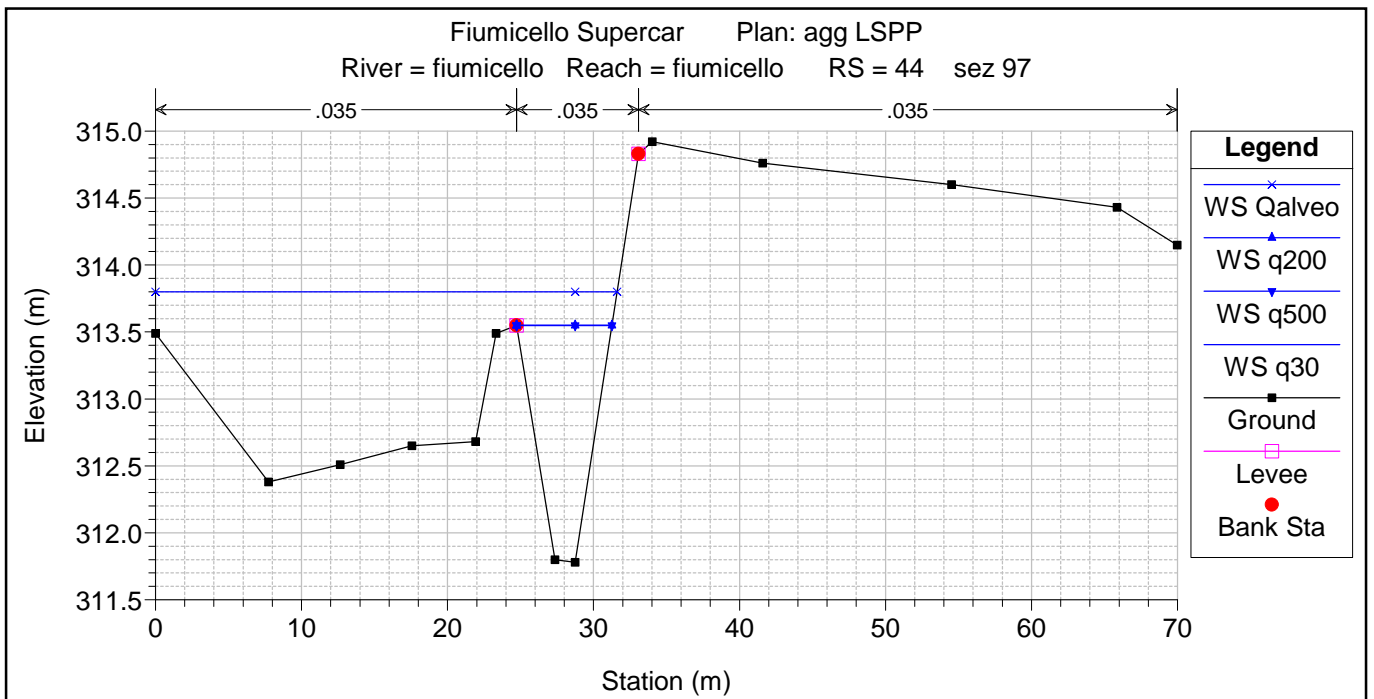
HEC-RAS Plan: 2017 Locations: User Defined (Continued)

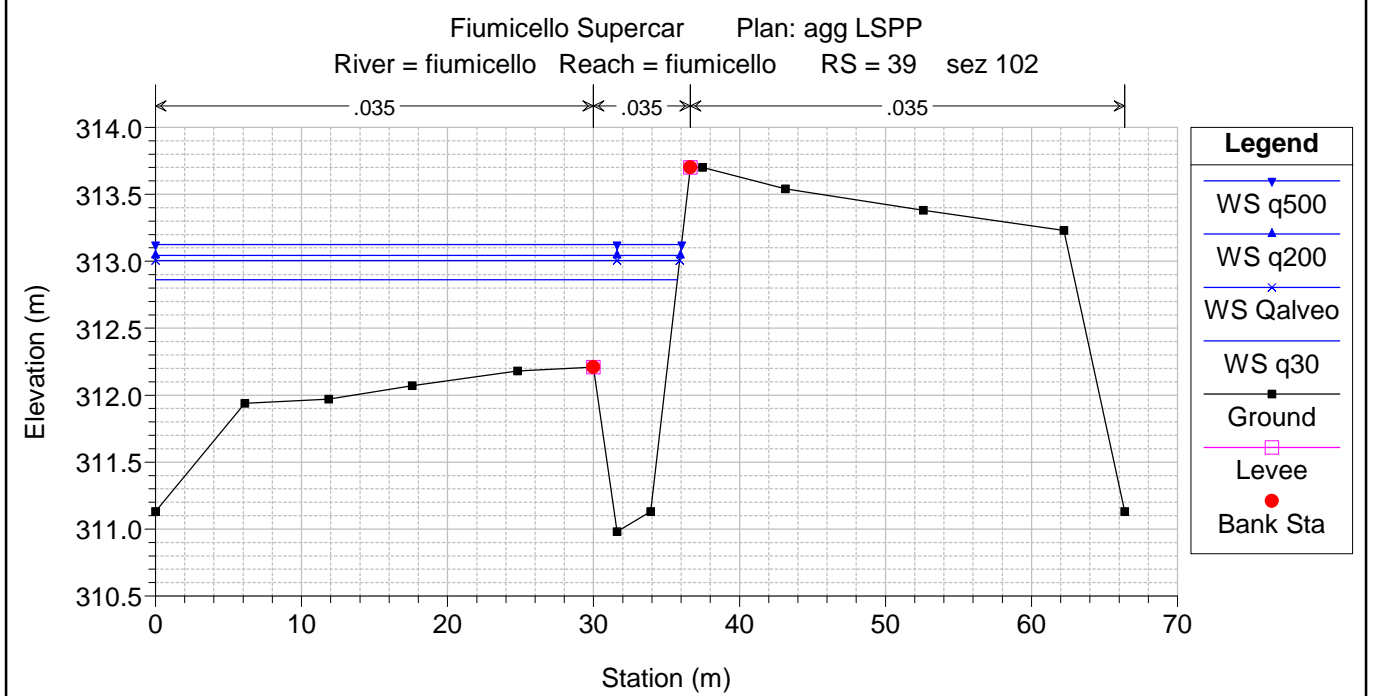
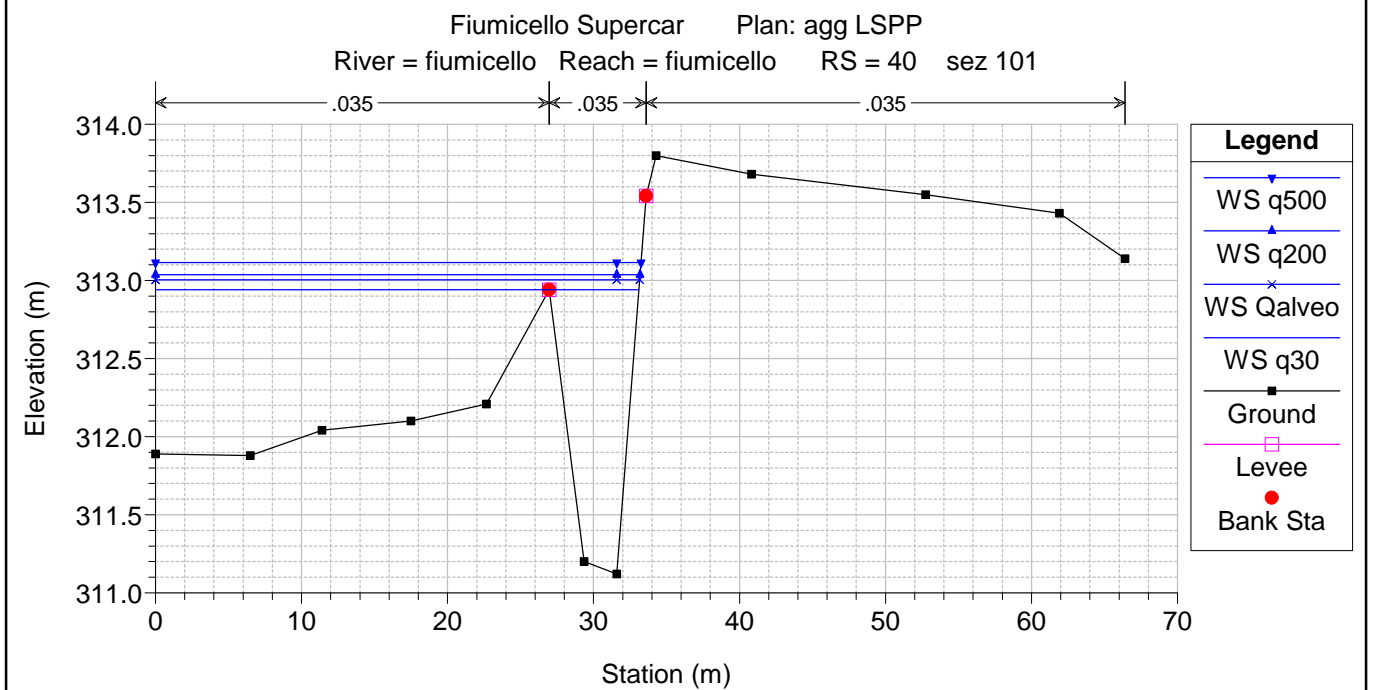
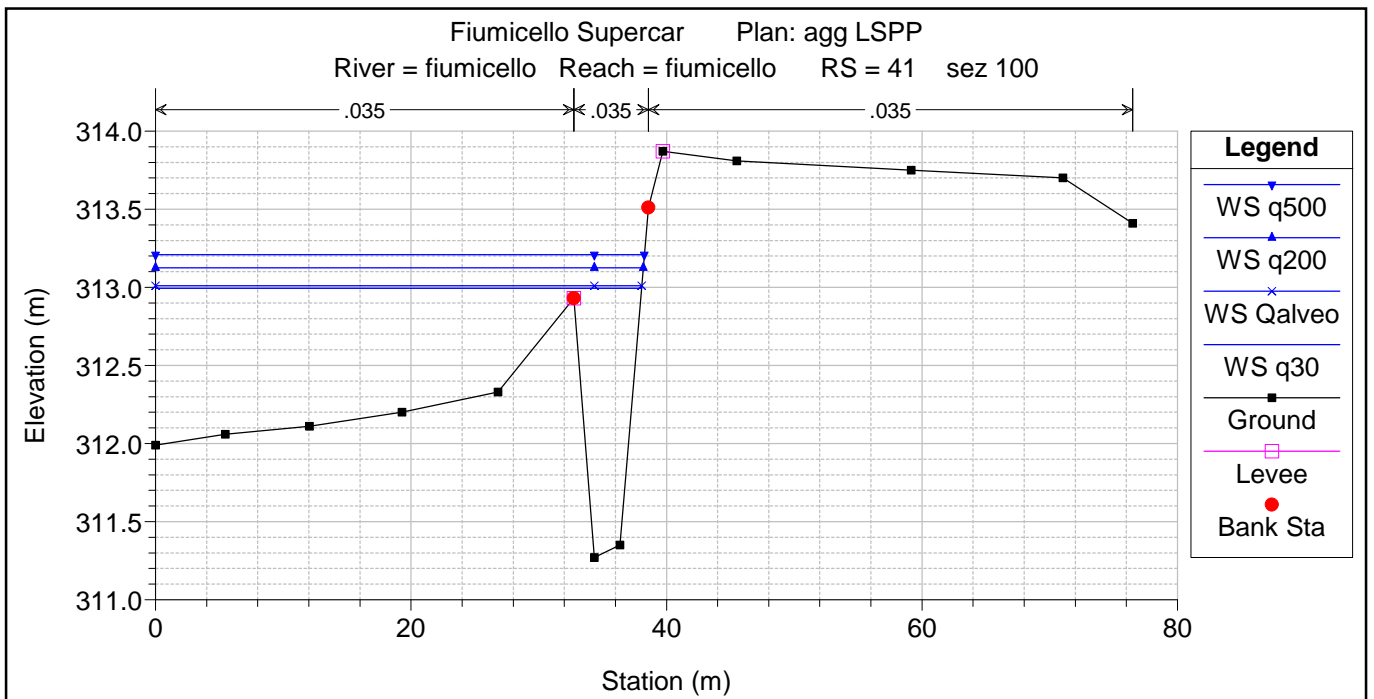
River	Reach	River Sta	Profile	E.G. Elev (m)	W.S. Elev (m)	Vel Head (m)	Frctn Loss (m)	C & E Loss (m)	Q Left (m3/s)	Q Channel (m3/s)	Q Right (m3/s)	Top Width (m)
fiomicello	fiomicello	6	q200	308.18	307.34	0.84	0.07	0.17		64.00		9.33
fiomicello	fiomicello	6	q500	308.39	307.51	0.88	0.08	0.16		72.10		9.78
fiomicello	fiomicello	6	Qalveo	307.29	307.19	0.10	0.01	0.02		20.00		8.95
fiomicello	fiomicello	5	q30	307.46	307.29	0.17	0.02	0.00		46.20		12.25
fiomicello	fiomicello	5	q200	307.70	307.41	0.29	0.03	0.00		64.00		12.58
fiomicello	fiomicello	5	q500	307.85	307.51	0.34	0.03	0.00		72.10		12.87
fiomicello	fiomicello	5	Qalveo	307.26	307.23	0.03	0.00	0.00		20.00		12.08
fiomicello	fiomicello	4	q30	307.44	307.28	0.16	0.03	0.01		46.20		11.89
fiomicello	fiomicello	4	q200	307.67	307.39	0.29	0.05	0.02		64.00		12.17
fiomicello	fiomicello	4	q500	307.82	307.49	0.33	0.06	0.04		72.10		12.43
fiomicello	fiomicello	4	Qalveo	307.26	307.23	0.03	0.00	0.00		20.00		11.76
fiomicello	fiomicello	3	q30	307.41	307.15	0.26	0.04	0.02		46.20		9.68
fiomicello	fiomicello	3	q200	307.60	307.07	0.53	0.08	0.03		64.00		9.51
fiomicello	fiomicello	3	q500	307.72	307.01	0.71	0.11	0.04		72.10		9.38
fiomicello	fiomicello	3	Qalveo	307.25	307.21	0.05	0.01	0.00		20.00		9.80
fiomicello	fiomicello	2	q30	307.36	307.15	0.20	0.01	0.03		46.20		10.46
fiomicello	fiomicello	2	q200	307.49	307.07	0.42	0.03	0.07		64.00		10.28
fiomicello	fiomicello	2	q500	307.57	307.01	0.56	0.03	0.10		72.10		10.14
fiomicello	fiomicello	2	Qalveo	307.25	307.21	0.04	0.00	0.01		20.00		10.58
fiomicello	fiomicello	1	q30	307.31	307.22	0.09				46.20	0.00	15.93
fiomicello	fiomicello	1	q200	307.39	307.22	0.17				64.00	0.00	15.93
fiomicello	fiomicello	1	q500	307.44	307.22	0.22				72.10	0.00	15.93
fiomicello	fiomicello	1	Qalveo	307.24	307.22	0.02				20.00	0.00	15.93

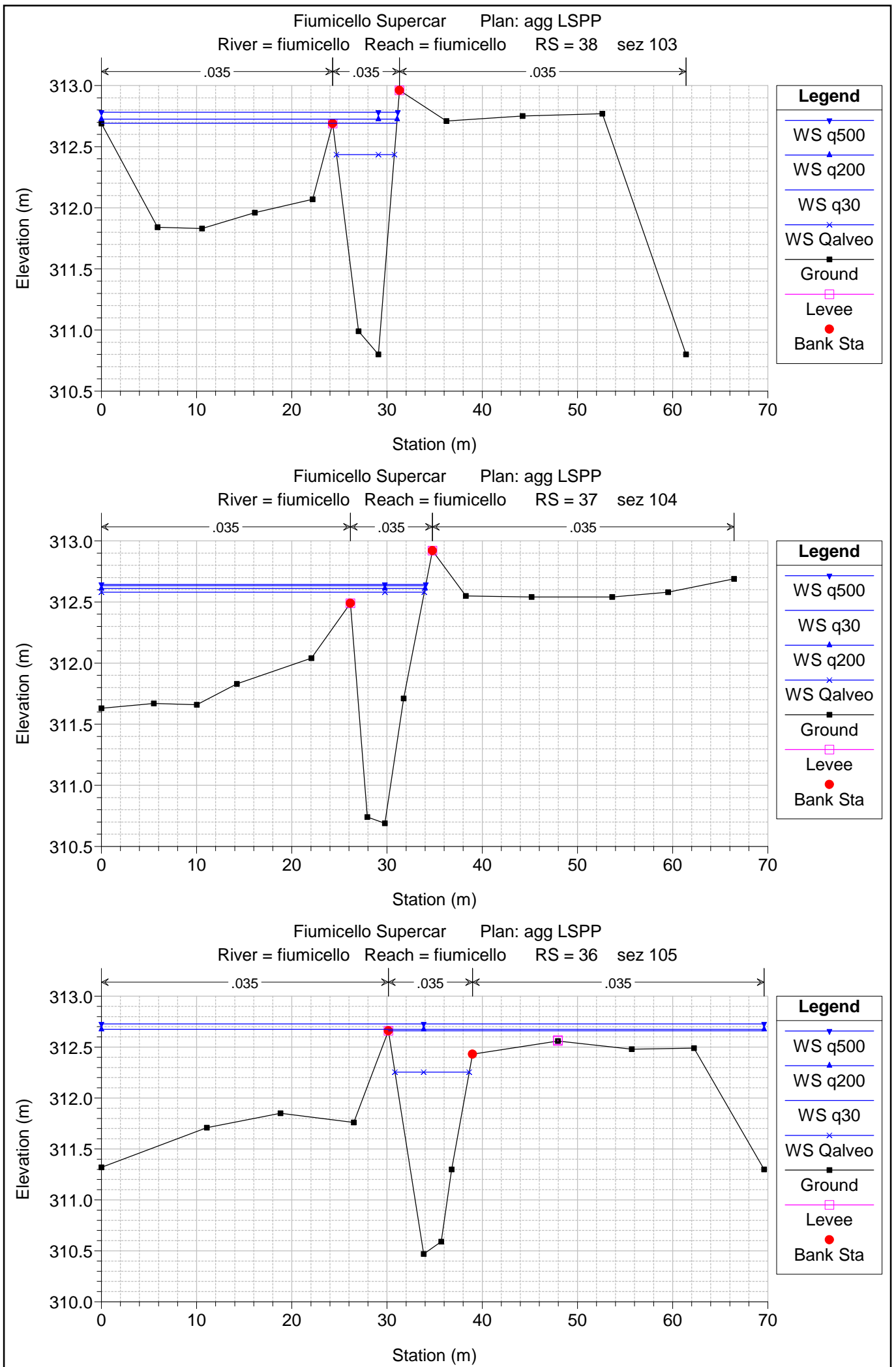


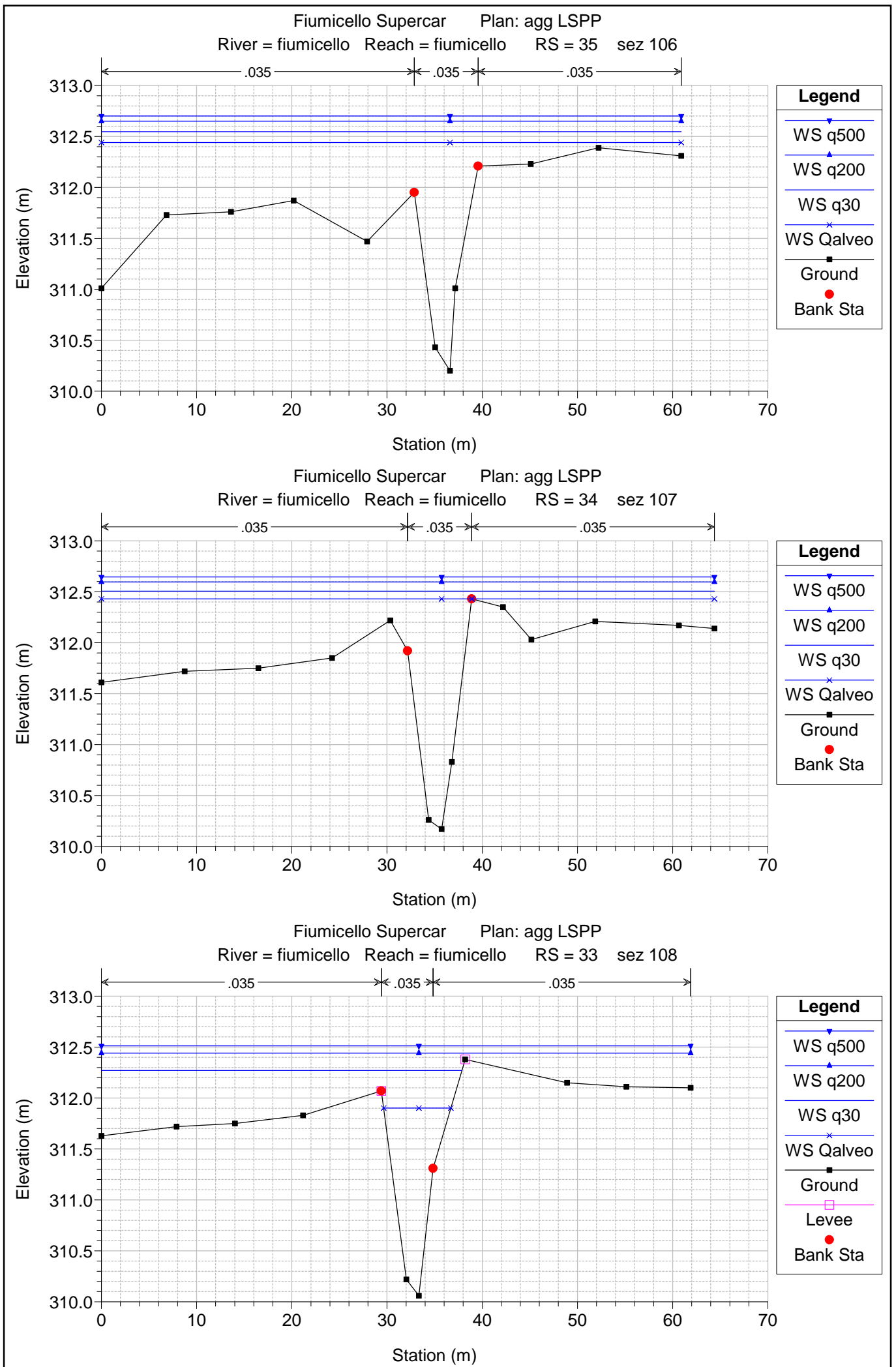






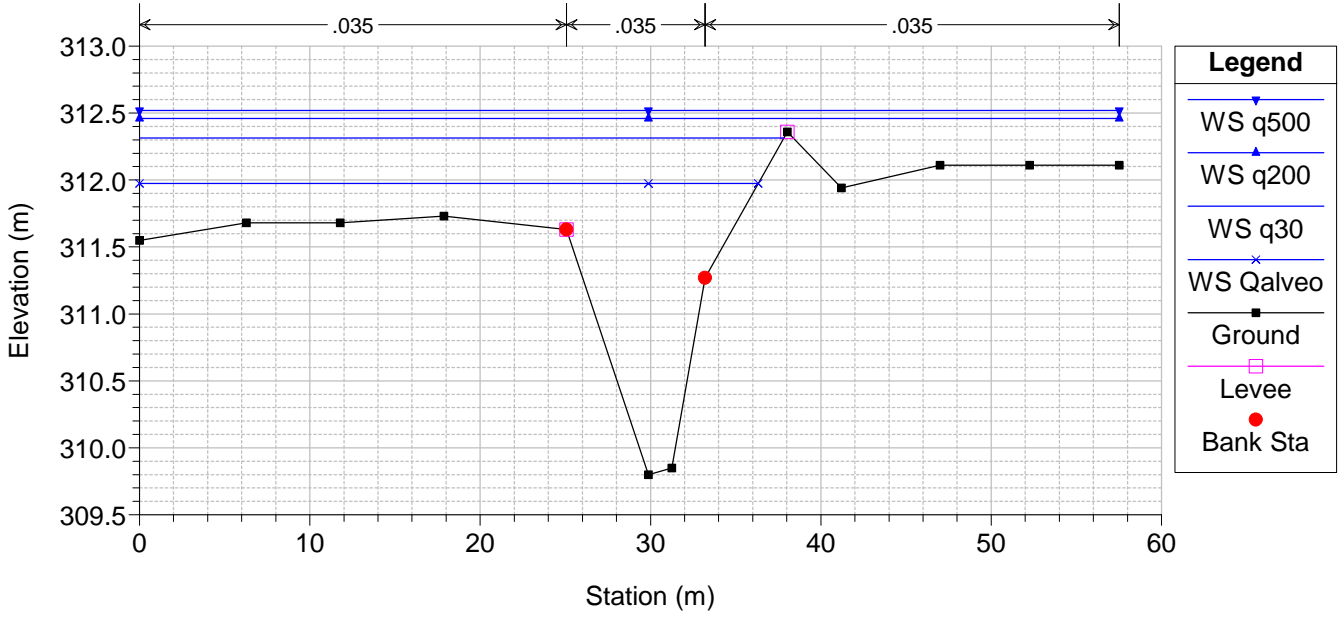






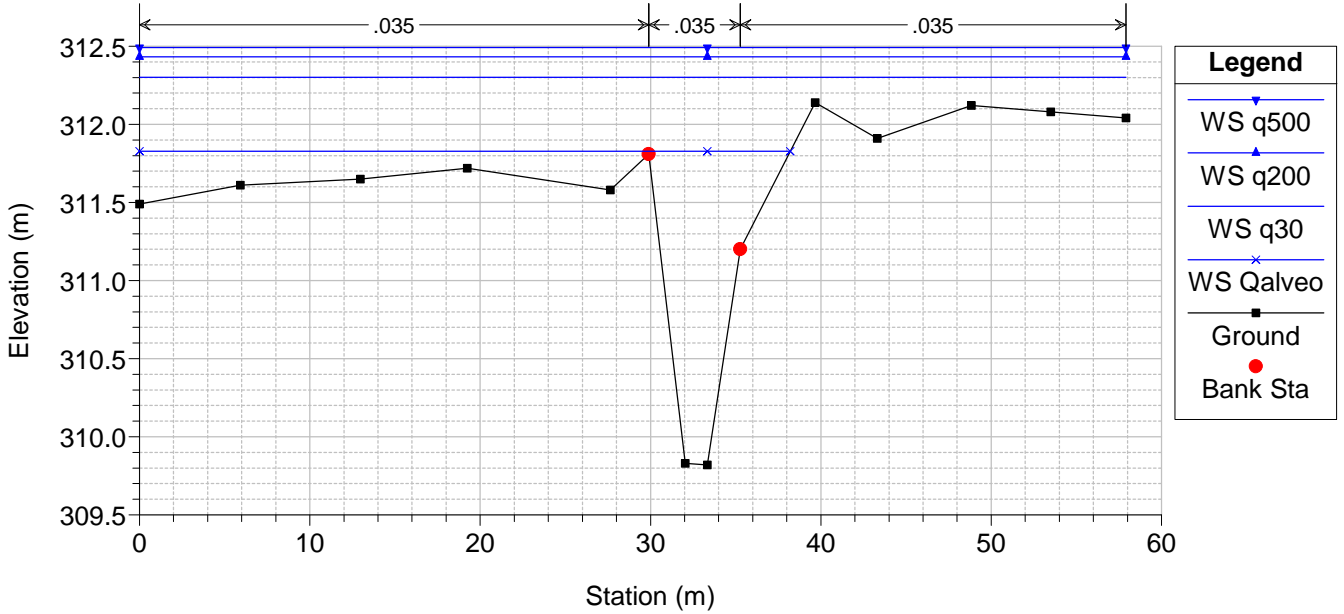
Fiumicello Supercar Plan: agg LSPP

River = fiumicello Reach = fiumicello RS = 32 sez 109



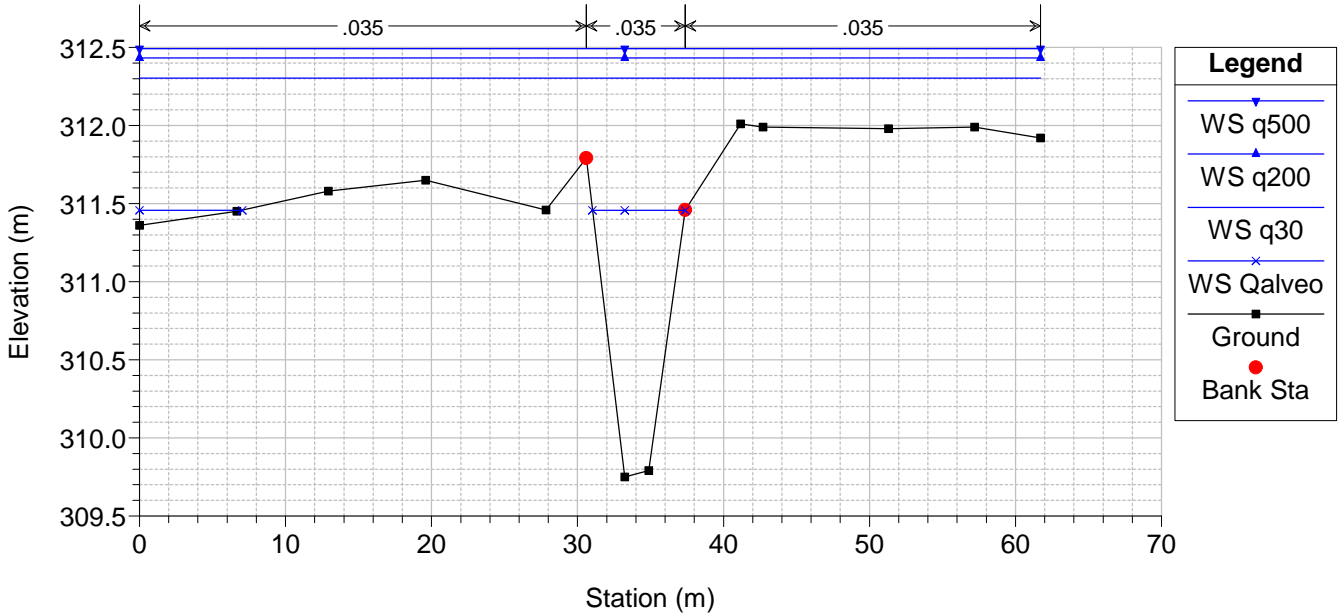
Fiumicello Supercar Plan: agg LSPP

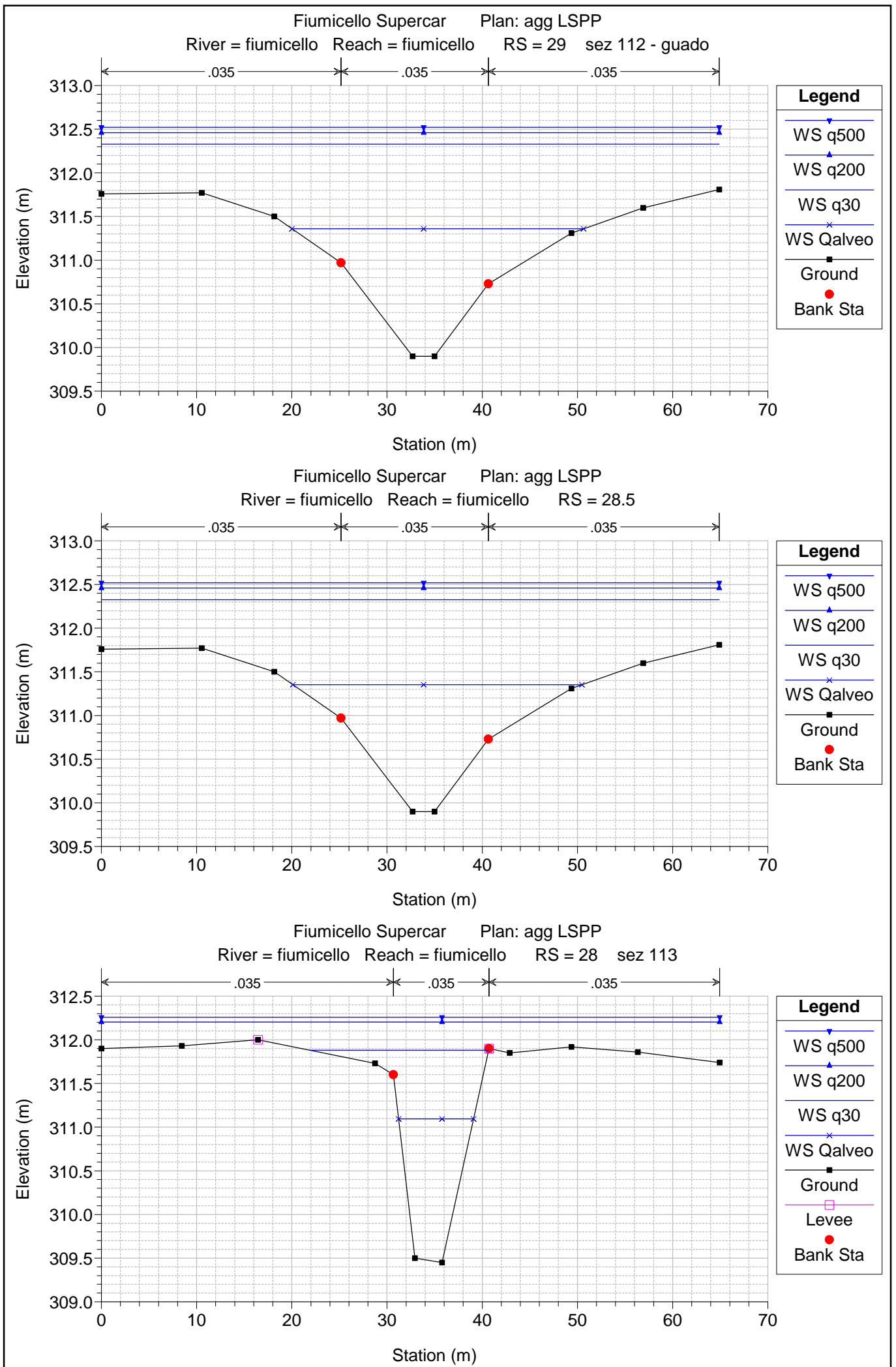
River = fiumicello Reach = fiumicello RS = 31 sez 110

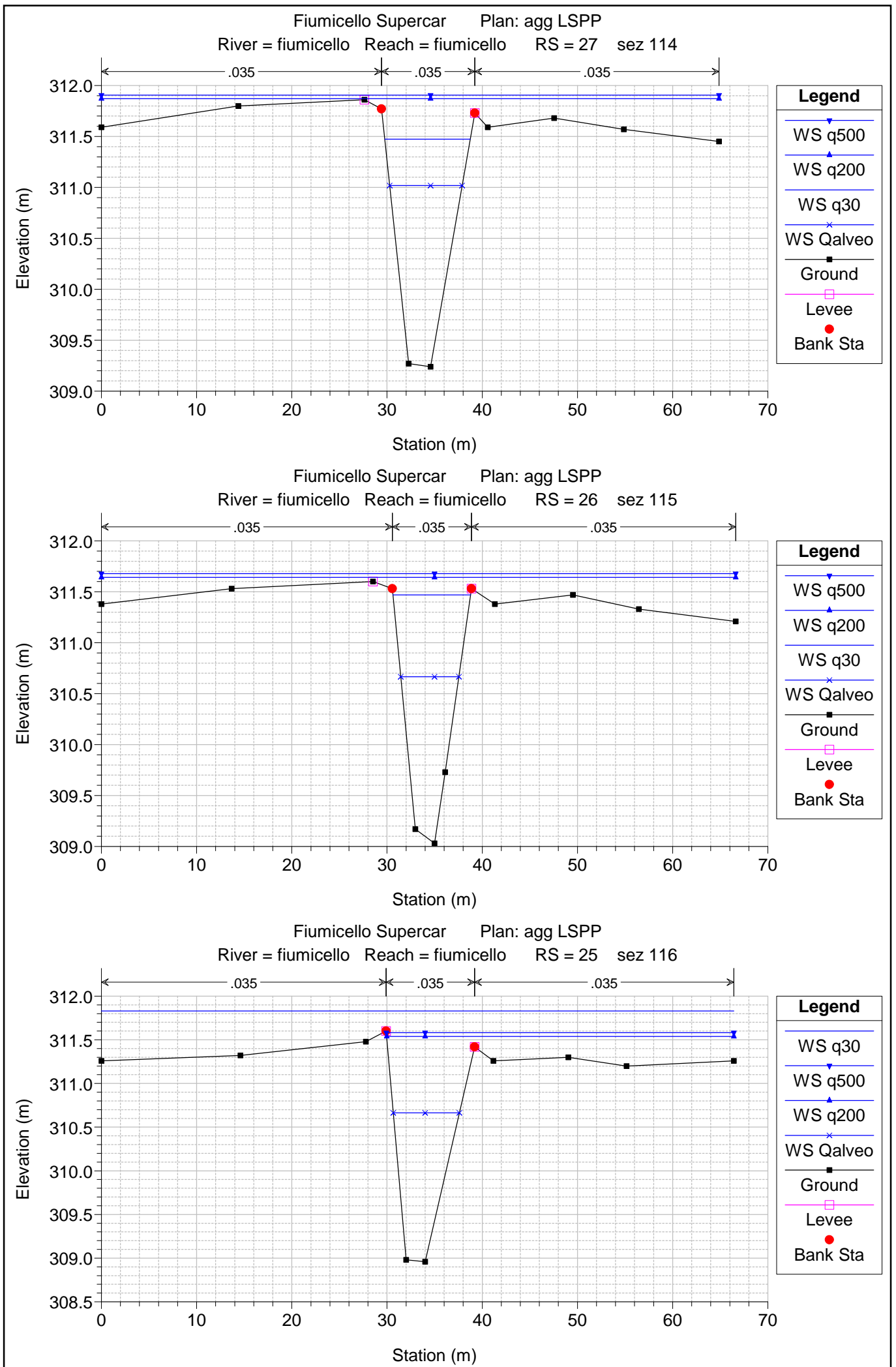


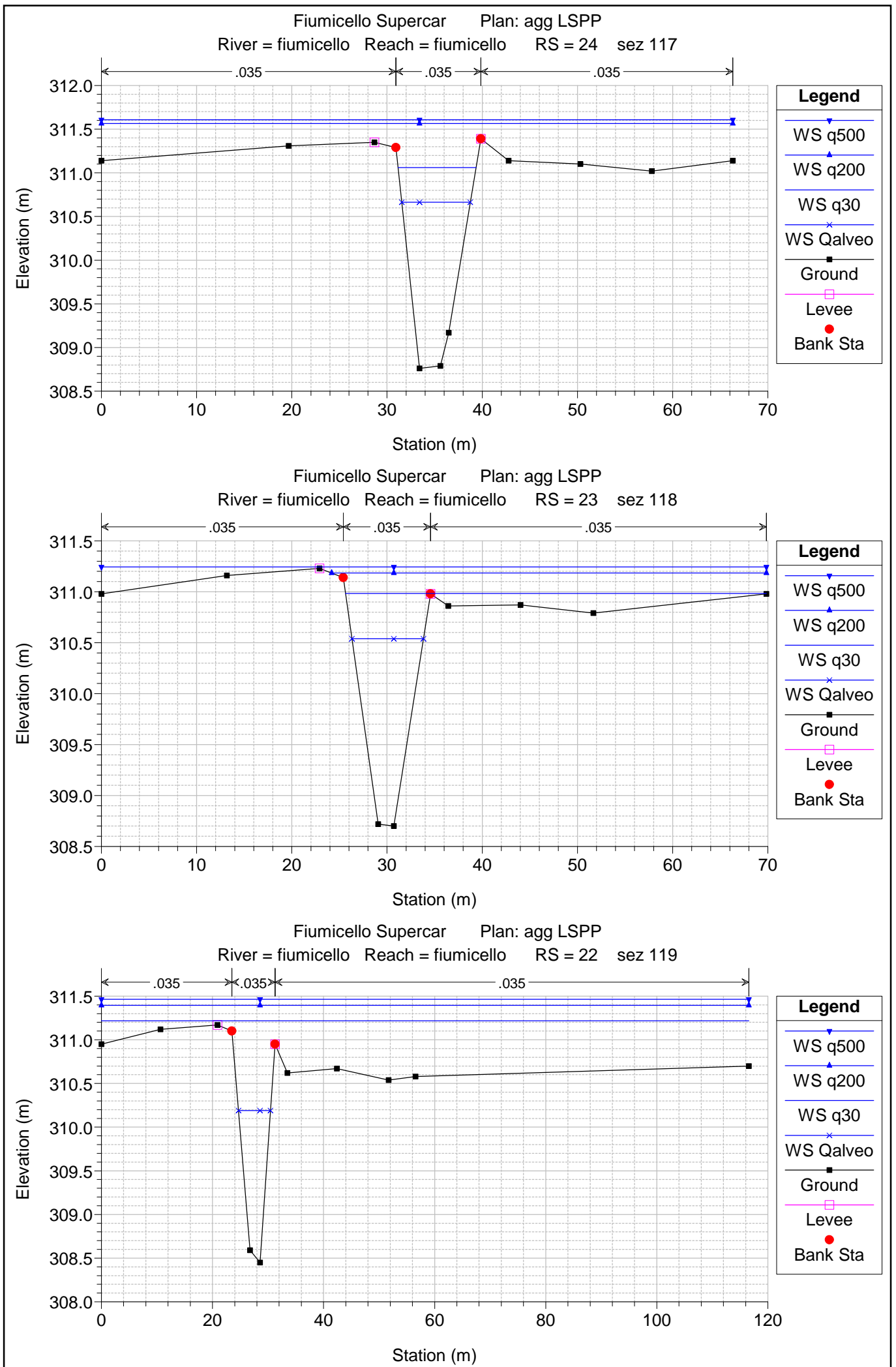
Fiumicello Supercar Plan: agg LSPP

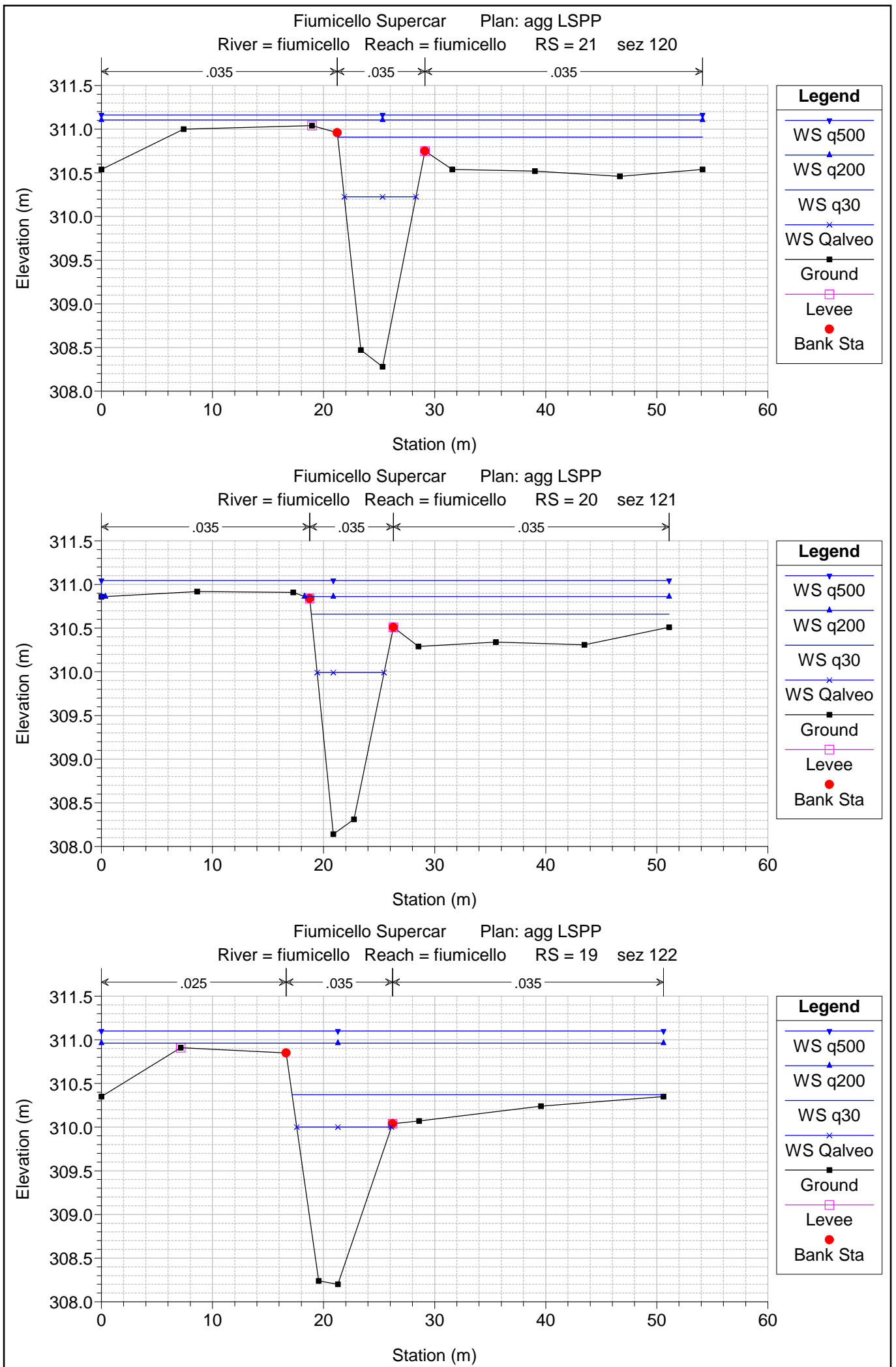
River = fiumicello Reach = fiumicello RS = 30 sez 111

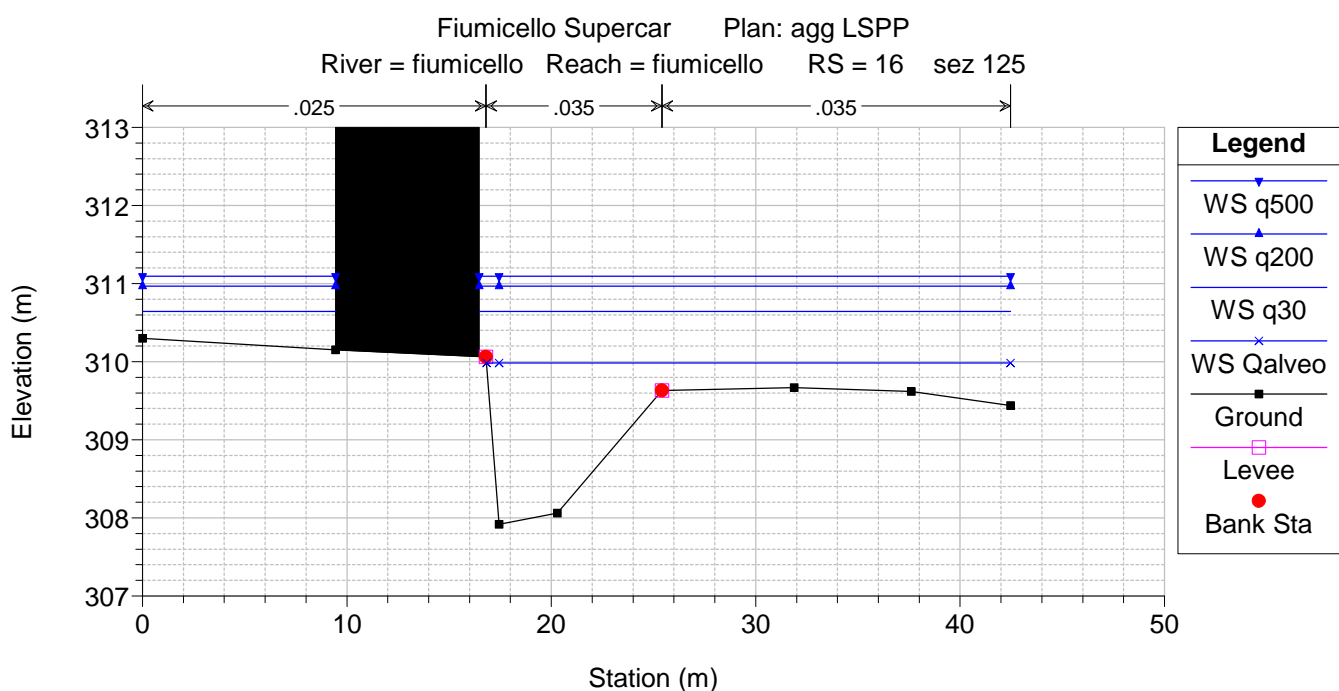
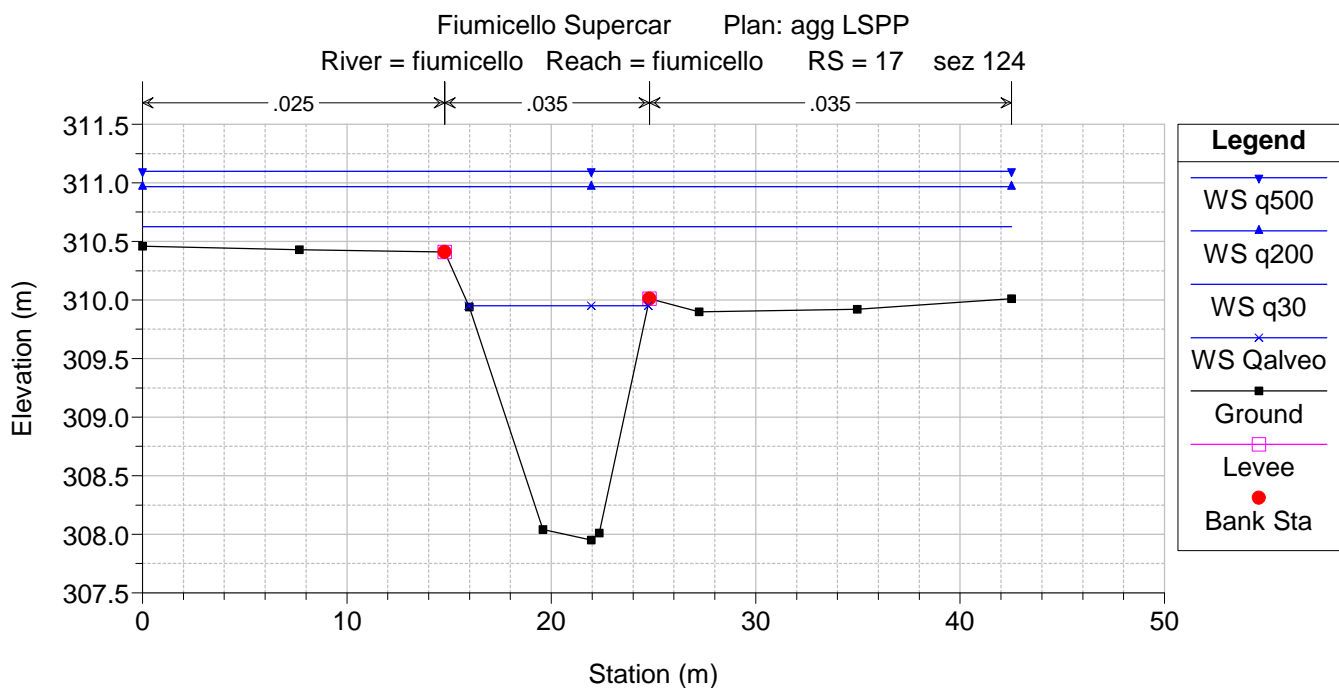
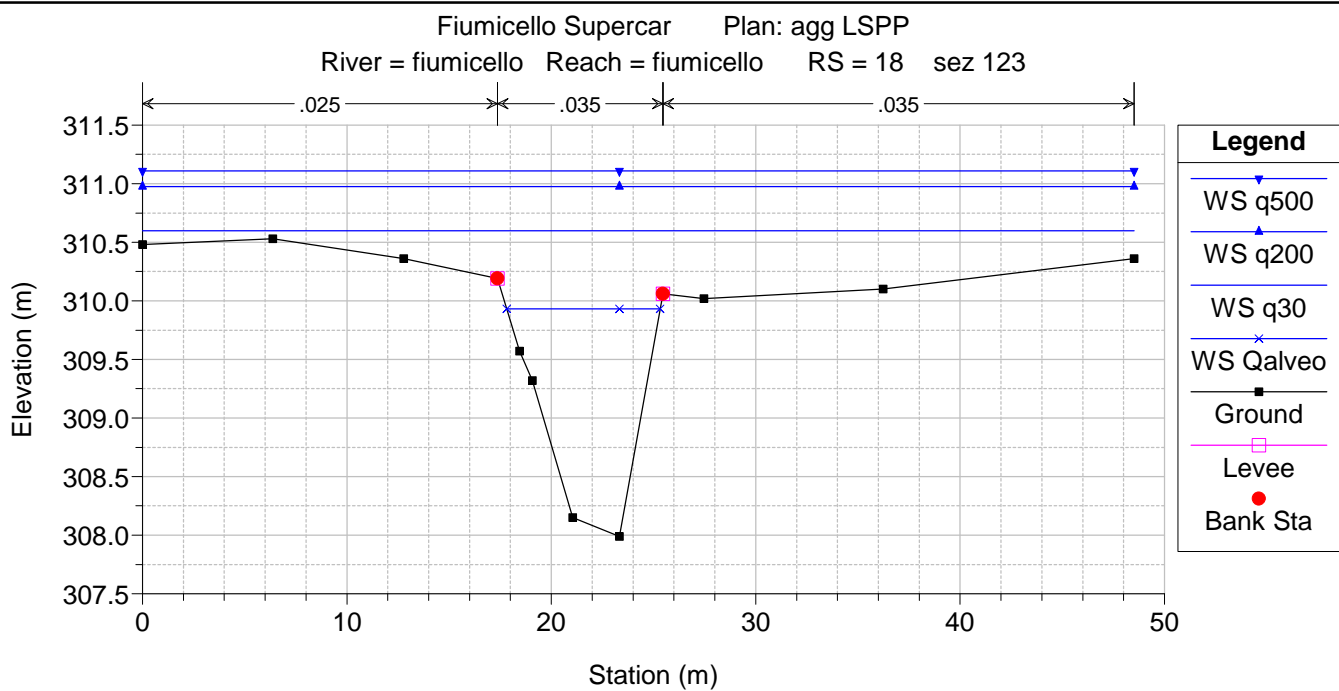






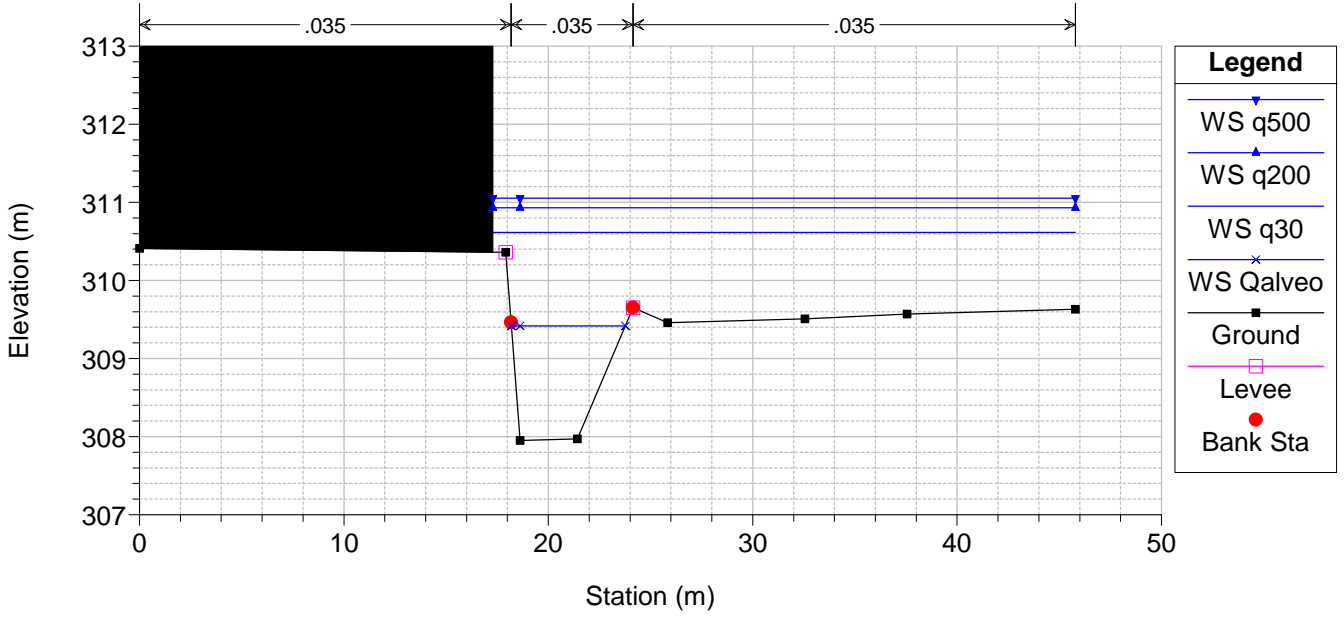






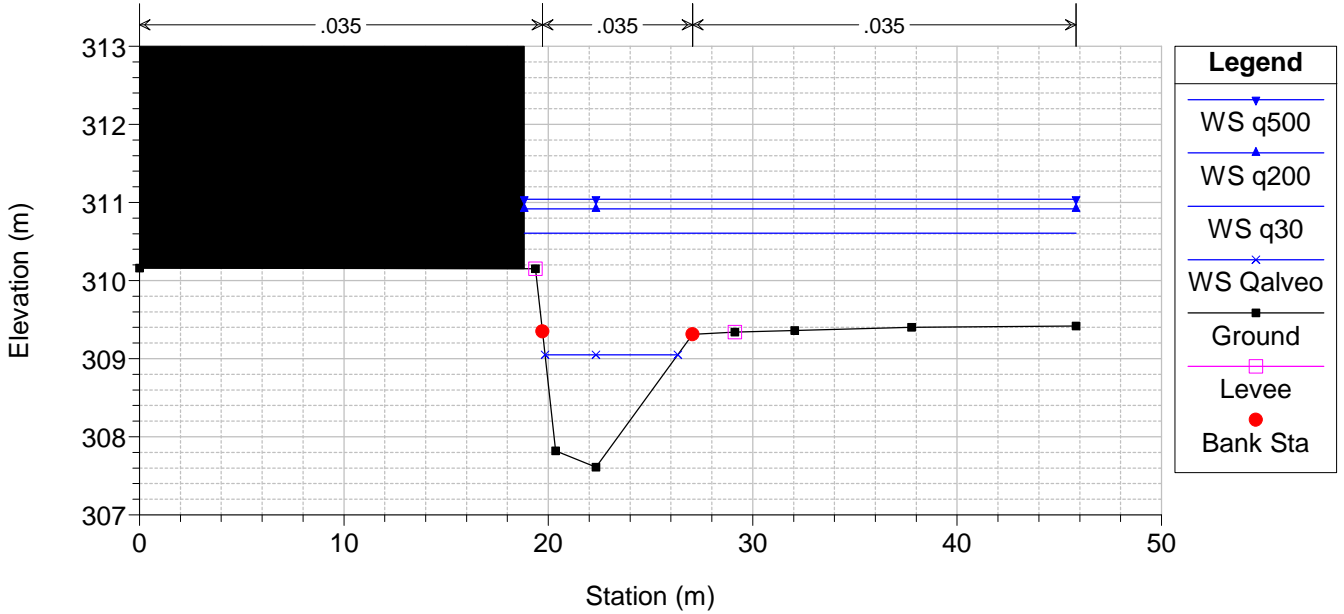
Fiumicello Supercar Plan: agg LSPP

River = fiumicello Reach = fiumicello RS = 15 sez 126



Fiumicello Supercar Plan: agg LSPP

River = fiumicello Reach = fiumicello RS = 14 sez 127



Fiumicello Supercar Plan: agg LSPP

River = fiumicello Reach = fiumicello RS = 13 sez 128

