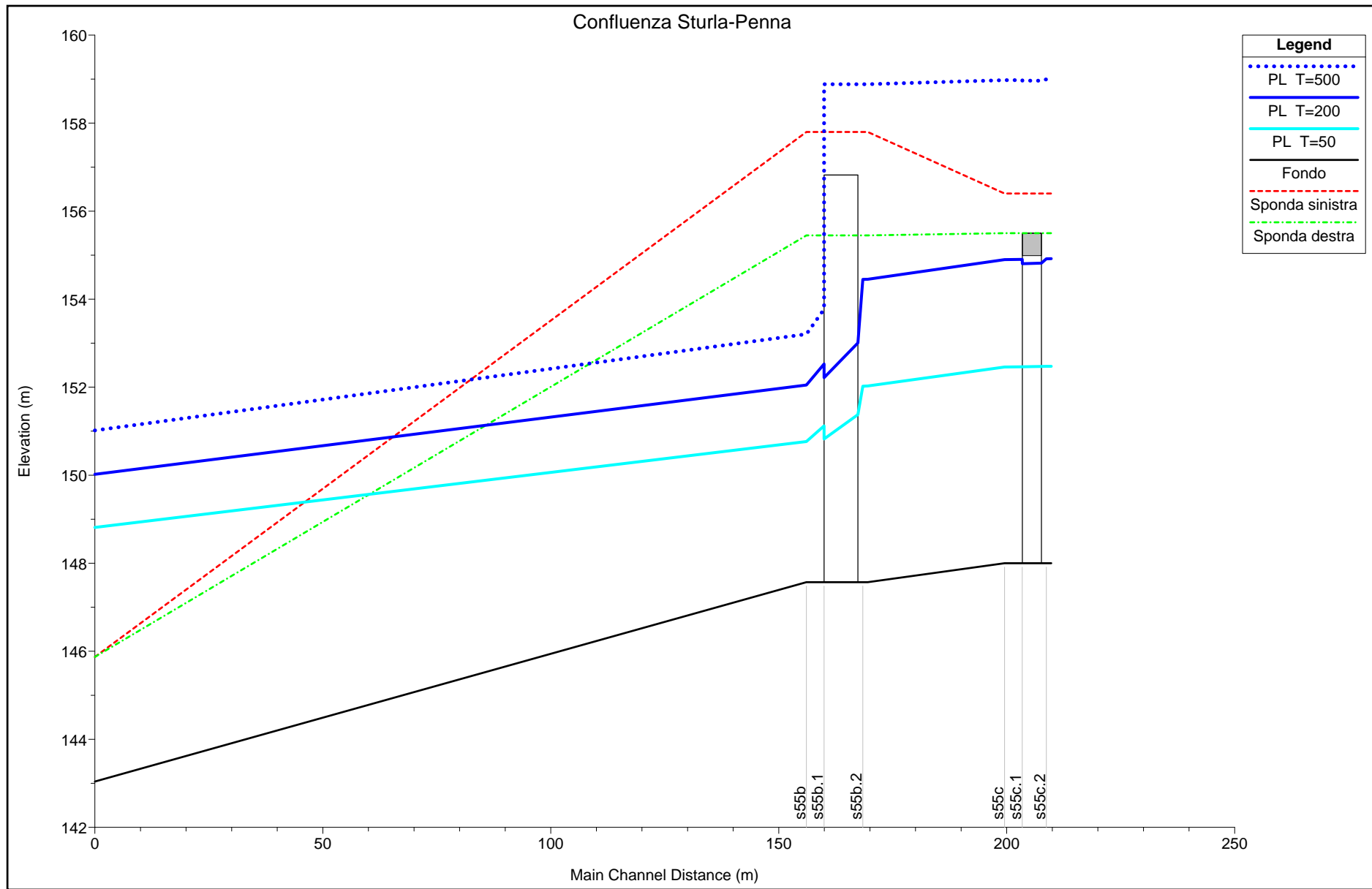


Torrente Sturla

Affluente Torrente Penna

VERIFICHE IDRAULICHE



HEC-RAS Plan: Cfl-St-Pn-B River: Penna Reach: pn

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	LOB Elev (m)	L. Freeboard (m)	ROB Elev (m)	R. Freeboard (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
pn	0.33 s55c.3	T=50	174.00	148.00	156.40	3.93	155.50	3.03	152.47		152.75	0.001616	2.34	74.46	17.65	0.36
pn	0.33 s55c.3	T=200	309.00	148.00	156.40	1.48	155.50	0.58	154.92		155.27	0.001401	2.63	117.61	17.65	0.32
pn	0.33 s55c.3	T=500	452.00	148.00	156.40	-2.60	155.50	-3.50	159.00		159.09	0.000259	1.49	342.46	63.94	0.14
pn	0.32 s55c.2	T=50	174.00	148.00	156.40	3.93	155.50	3.03	152.47	150.40	152.75	0.001618	2.34	74.42	17.65	0.36
pn	0.32 s55c.2	T=200	309.00	148.00	156.40	1.48	155.50	0.58	154.92	151.40	155.27	0.001402	2.63	117.58	17.65	0.33
pn	0.32 s55c.2	T=500	452.00	148.00	156.40	-2.60	155.50	-3.50	159.00	152.31	159.09	0.000259	1.49	342.44	63.94	0.14
pn	0.311		Bridge													
pn	0.31 s55c.1	T=50	174.00	148.00	156.40	3.94	155.50	3.04	152.46		152.74	0.001195	2.34	74.27	17.65	0.36
pn	0.31 s55c.1	T=200	309.00	148.00	156.40	1.50	155.50	0.60	154.90		155.26	0.001036	2.63	117.34	17.65	0.33
pn	0.31 s55c.1	T=500	452.00	148.00	156.40	-2.58	155.50	-3.48	158.98		159.08	0.000215	1.58	341.20	63.94	0.15
pn	0.3 s55c	T=50	174.00	148.00	156.40	3.94	155.50	3.04	152.46		152.74	0.001200	2.35	74.17	17.65	0.37
pn	0.3 s55c	T=200	309.00	148.00	156.40	1.50	155.50	0.60	154.90		155.25	0.001038	2.64	117.26	17.65	0.33
pn	0.3 s55c	T=500	452.00	148.00	156.40	-2.58	155.50	-3.48	158.98		159.08	0.000215	1.58	341.14	63.94	0.15
pn	0.23 s55b.3	T=50	174.00	147.57	157.80	5.77	155.45	3.42	152.03		152.65	0.003131	3.49	49.79	12.94	0.57
pn	0.23 s55b.3	T=200	309.00	147.57	157.80	3.35	155.45	1.00	154.45		155.17	0.002513	3.75	82.29	13.87	0.49
pn	0.23 s55b.3	T=500	452.00	147.57	157.80	-1.08	155.45	-3.43	158.88		159.06	0.000427	2.04	251.49	45.50	0.21
pn	0.22 s55b.2	T=50	174.00	147.57	157.80	5.78	155.45	3.43	152.02	150.76	152.65	0.003143	3.50	49.72	12.94	0.57
pn	0.22 s55b.2	T=200	309.00	147.57	157.80	3.35	155.45	1.00	154.45	152.05	155.17	0.002518	3.76	82.24	13.87	0.49
pn	0.22 s55b.2	T=500	452.00	147.57	157.80	-1.08	155.45	-3.43	158.88	153.20	159.06	0.000428	2.04	251.46	45.50	0.21
pn	0.211		Bridge													
pn	0.21 s55b.1	T=50	174.00	147.57	157.80	6.68	155.45	4.33	151.12	150.76	152.18	0.006604	4.55	38.21	12.60	0.83
pn	0.21 s55b.1	T=200	309.00	147.57	157.80	5.27	155.45	2.92	152.53	152.05	154.06	0.007026	5.49	56.30	13.13	0.85
pn	0.21 s55b.1	T=500	452.00	147.57	157.80	4.03	155.45	1.68	153.77	153.21	155.73	0.007431	6.20	72.93	13.61	0.85
pn	0.2 s55b	T=50	174.00	147.57	157.80	7.04	155.45	4.69	150.76	150.76	152.12	0.009440	5.16	33.74	12.46	1.00
pn	0.2 s55b	T=200	309.00	147.57	157.80	5.75	155.45	3.40	152.05	152.05	153.99	0.009723	6.17	50.07	12.95	1.00
pn	0.2 s55b	T=500	452.00	147.57	157.80	4.59	155.45	2.24	153.21	153.21	155.65	0.010019	6.92	65.30	13.39	1.00
pn	0.1 s55a	T=50	174.00	143.04	145.87	-2.94	145.87	-2.94	148.81		149.05	0.000756	2.38	96.31	44.85	0.34
pn	0.1 s55a	T=200	309.00	143.04	145.87	-4.15	145.87	-4.15	150.02		150.29	0.000725	2.69	153.31	49.55	0.34
pn	0.1 s55a	T=500	452.00	143.04	145.87	-5.15	145.87	-5.15	151.02		151.32	0.000711	2.93	206.99	56.27	0.35

