

IMPIANTO FOTOVOLTAICO EG ELIOSFERA E OPERE CONNESSE

POTENZA IMPIANTO 19,98 MWp - COMUNE DI VENOSA (PZ)

Proponente

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Coordinamento progettuale

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Titolo Elaborato

RELAZIONE DI COMPATIBILITA' IDROLOGICA E IDRAULICA - Allegato A

LIVELLO PROGETTAZIONE	CODICE ELABORATO	FILENAME	RIFERIMENTO	DATA	SCALA
Progetto definitivo	A.3.1	A.3.1	A3_3 PD	11/2021	-

Revisioni

REV.	DATA	DESCRIZIONE	ESEGUITO	VERIFICATO	APPROVATO
01	05/11/2021	-	CM	MT/RAM	ENF



COMUNE DI VENOSA (PZ)
REGIONE BASILICATA





**PROGETTO PER LA COSTRUZIONE E L'ESERCIZIO DI UN IMPIANTO
FOTOVOLTAICO DENOMINATO "EG ELIOSFERA", DA REALIZZARSI IN LOCALITÀ
"GROTTAPIANA" DEL COMUNE DI VENOSA (PZ), PER LA PRODUZIONE DI ENERGIA
ELETTRICA DA FONTE FOTOVOLTAICA E DELLA POTENZA NOMINALE DI 19,98 MW_p**

DATA:
OTTOBRE 2021
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STUDIO DI COMPATIBILITÀ IDROLOGICA ED IDRAULICA

APPENDICE A

RISULTATI TABELLARI

HEC-RAS Plan: Plan 01 Profile: PF 1

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
River 3	Reach 3	97	PF 1	0.03	385.95	385.99	385.99	386.00	0.028996	0.40	0.08	3.52	0.87
River 3	Reach 3	35	PF 1	0.03	378.72	378.73	378.76	379.42	12.792670	3.67	0.01	1.31	14.84
River 2	Reach 2	269	PF 1	0.06	386.13	386.18	386.18	386.19	0.037407	0.51	0.12	4.62	1.02
River 2	Reach 2	231	PF 1	0.06	383.01	383.05	383.07	383.12	0.300845	1.20	0.05	2.59	2.75
River 2	Reach 2	198	PF 1	0.06	379.81	379.88	379.89	379.91	0.047926	0.72	0.08	2.33	1.21
River 2	Reach 2-Lower	136	PF 1	0.09	372.63	372.66	372.66	372.68	0.063767	0.66	0.14	5.33	1.32
River 2	Reach 2-Lower	108	PF 1	0.09	370.16	370.25	370.28	370.34	0.118861	1.32	0.07	1.51	1.98
River 2	Reach 2-Lower	81	PF 1	0.09	367.17	367.24	367.26	367.30	0.106713	1.13	0.08	2.05	1.84
River 2	Reach 2-Lower	51	PF 1	0.09	360.61	360.75	360.85	361.26	0.487271	3.16	0.03	0.41	3.81
River 2	Reach 2-Lower	26	PF 1	0.09	357.30	357.46	357.49	357.56	0.067258	1.39	0.06	0.80	1.56
River 2	Reach 2-Lower	6	PF 1	0.09	354.95	355.08	355.15	355.32	0.217277	2.18	0.04	0.62	2.70
River 1	Reach 1	690	PF 1	0.14	390.64	390.71	390.71	390.72	0.033004	0.57	0.24	7.24	1.00
River 1	Reach 1	654	PF 1	0.14	389.01	389.05	389.06	389.08	0.065552	0.67	0.21	8.15	1.34
River 1	Reach 1	631	PF 1	0.14	387.41	387.47	387.48	387.51	0.075731	0.83	0.17	5.32	1.50
River 1	Reach 1	596	PF 1	0.14	385.00	385.10	385.11	385.15	0.059750	0.99	0.14	2.86	1.43
River 1	Reach 1	523	PF 1	0.14	380.78	380.81	380.82	380.83	0.058890	0.64	0.22	8.60	1.27
River 1	Reach 1	447	PF 1	0.14	376.37	376.47	376.48	376.51	0.055132	0.79	0.18	4.71	1.31
River 1	Reach 1	405	PF 1	0.14	373.61	373.68	373.69	373.72	0.081489	0.89	0.16	4.70	1.57
River 1	Reach 1	370	PF 1	0.14	370.68	370.72	370.73	370.75	0.089555	0.84	0.17	5.99	1.60
River 1	Reach 1	331	PF 1	0.14	367.81	367.86	367.87	367.89	0.061330	0.76	0.18	5.69	1.35
River 1	Reach 1	296	PF 1	0.14	365.29	365.38	365.40	365.44	0.079494	1.10	0.13	2.77	1.63
River 1	Reach 1	239	PF 1	0.14	361.82	361.93	361.94	361.97	0.047356	0.93	0.15	2.84	1.29
River 1	Reach 1	166	PF 1	0.14	347.48	347.74	347.74	347.81	0.025989	1.15	0.12	0.92	1.01

Tabella 1: DATI TABELLARI Q_{30 anni}



**PROGETTO PER LA COSTRUZIONE E L'ESERCIZIO DI UN IMPIANTO
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ELETTRICA DA FONTE FOTOVOLTAICA E DELLA POTENZA NOMINALE DI 19,98 MW_p**

DATA:
OTTOBRE 2021
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STUDIO DI COMPATIBILITÀ IDROLOGICA ED IDRAULICA

APPENDICE A

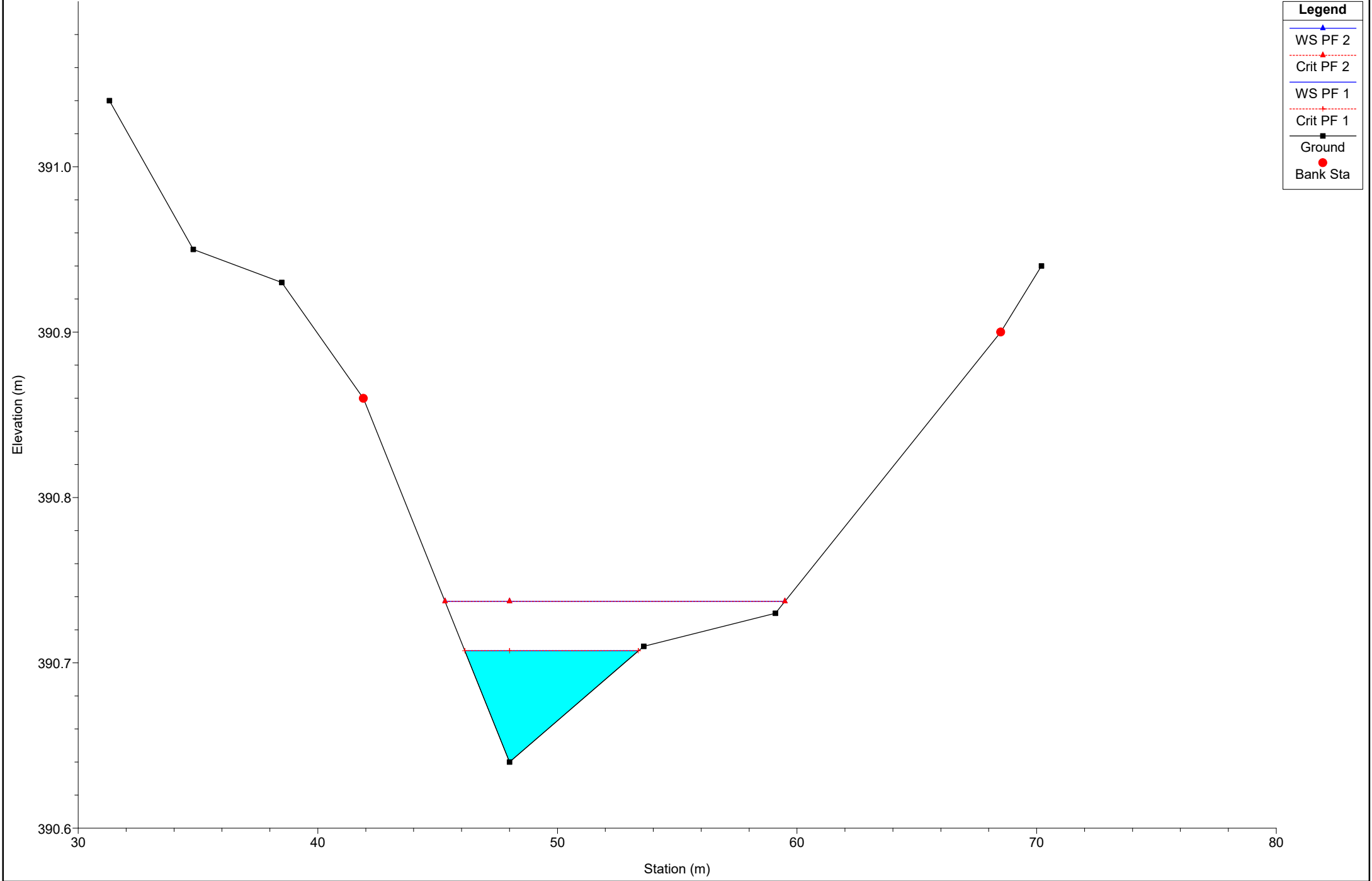
HEC-RAS Plan: Plan 01 Profile: PF 2

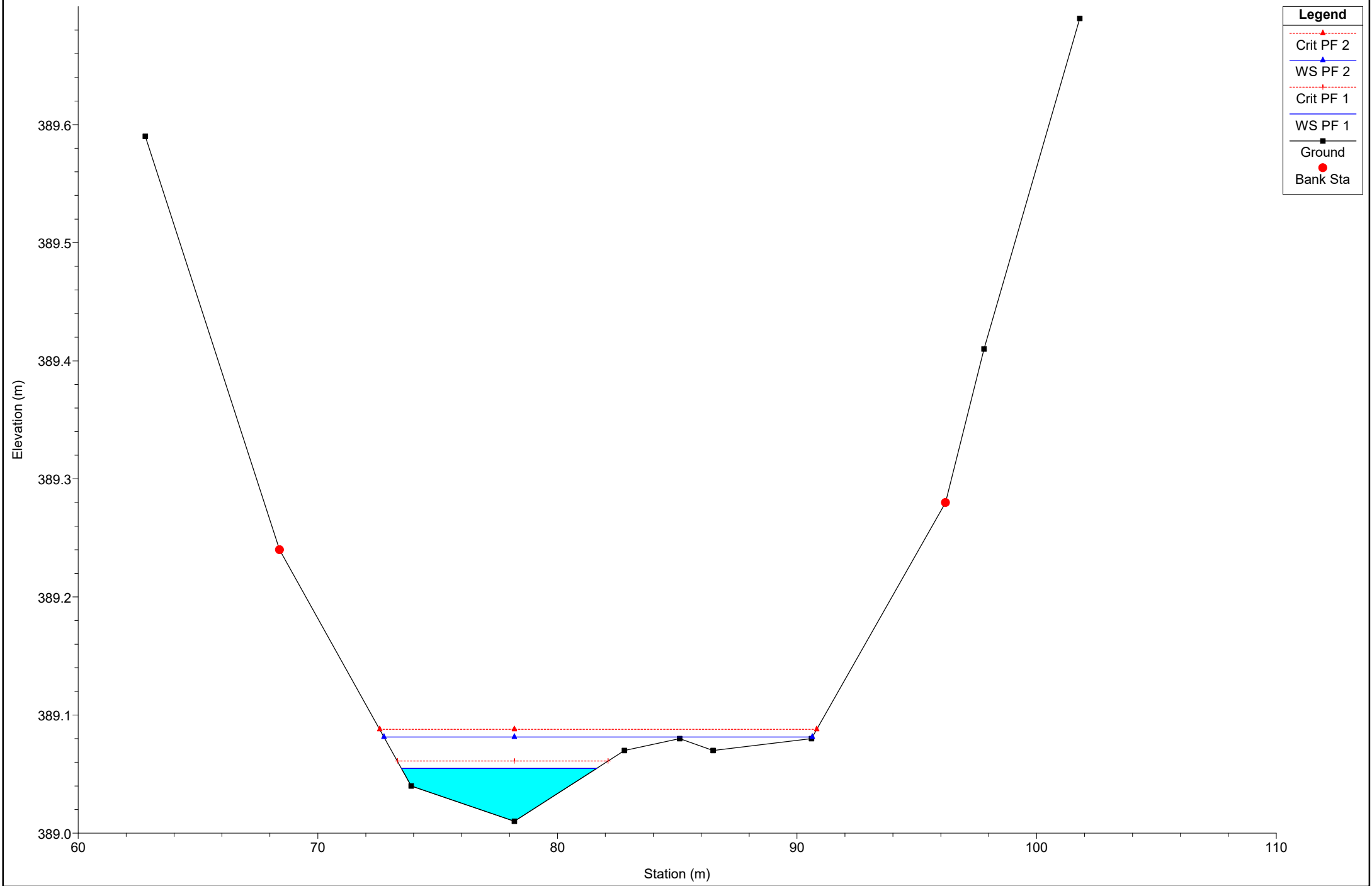
River	Reach	River Sta	Profile	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m ²)	Top Width (m)	Froude # Chl
River 3	Reach 3	97	PF 2	0.17	385.95	386.03	386.03	386.04	0.025820	0.54	0.31	8.38	0.90
River 3	Reach 3	35	PF 2	0.17	378.72	378.75	378.80	380.20	8.127199	5.34	0.03	2.07	13.75
River 2	Reach 2	269	PF 2	0.20	386.13	386.21	386.21	386.23	0.031182	0.64	0.31	7.50	1.01
River 2	Reach 2	231	PF 2	0.20	383.01	383.07	383.10	383.24	0.483428	1.87	0.11	4.02	3.67
River 2	Reach 2	198	PF 2	0.20	379.81	379.93	379.94	379.97	0.041330	0.92	0.22	3.76	1.22
River 2	Reach 2-Lower	136	PF 2	0.37	372.63	372.68	372.71	372.79	0.137767	1.44	0.26	5.59	2.15
River 2	Reach 2-Lower	108	PF 2	0.37	370.16	370.34	370.37	370.44	0.058024	1.43	0.26	2.93	1.54
River 2	Reach 2-Lower	81	PF 2	0.37	367.17	367.27	367.34	367.54	0.261513	2.29	0.16	2.83	3.06
River 2	Reach 2-Lower	51	PF 2	0.37	360.61	360.90	361.03	361.36	0.162958	2.98	0.12	0.85	2.49
River 2	Reach 2-Lower	26	PF 2	0.37	357.30	357.55	357.64	357.85	0.118936	2.45	0.15	1.22	2.22
River 2	Reach 2-Lower	6	PF 2	0.37	354.95	355.20	355.30	355.51	0.115507	2.45	0.15	1.19	2.20
River 1	Reach 1	690	PF 2	0.37	390.64	390.74	390.74	390.76	0.032452	0.64	0.57	14.19	1.02
River 1	Reach 1	654	PF 2	0.37	389.01	389.08	389.09	389.11	0.067459	0.73	0.51	17.88	1.39
River 1	Reach 1	631	PF 2	0.37	387.41	387.50	387.52	387.56	0.070845	1.11	0.33	6.47	1.57
River 1	Reach 1	596	PF 2	0.37	385.00	385.14	385.17	385.23	0.062354	1.29	0.29	4.08	1.55
River 1	Reach 1	523	PF 2	0.37	380.78	380.83	380.84	380.87	0.057406	0.85	0.43	10.74	1.36
River 1	Reach 1	447	PF 2	0.37	376.37	376.50	376.52	376.57	0.055896	1.09	0.34	5.66	1.43
River 1	Reach 1	405	PF 2	0.37	373.61	373.71	373.73	373.77	0.080427	1.14	0.33	6.78	1.65
River 1	Reach 1	370	PF 2	0.37	370.68	370.74	370.76	370.81	0.090423	1.18	0.31	6.74	1.74
River 1	Reach 1	331	PF 2	0.37	367.81	367.89	367.91	367.95	0.060983	1.07	0.34	6.34	1.47
River 1	Reach 1	296	PF 2	0.37	365.29	365.42	365.46	365.52	0.078324	1.39	0.27	4.00	1.72
River 1	Reach 1	239	PF 2	0.37	361.82	361.97	361.99	362.04	0.047927	1.19	0.31	4.08	1.38
River 1	Reach 1	166	PF 2	0.37	347.48	347.87	347.87	347.97	0.022947	1.40	0.26	1.36	1.01

Tabella 2: DATI TABELLARI Q_{200 anni}

Legend

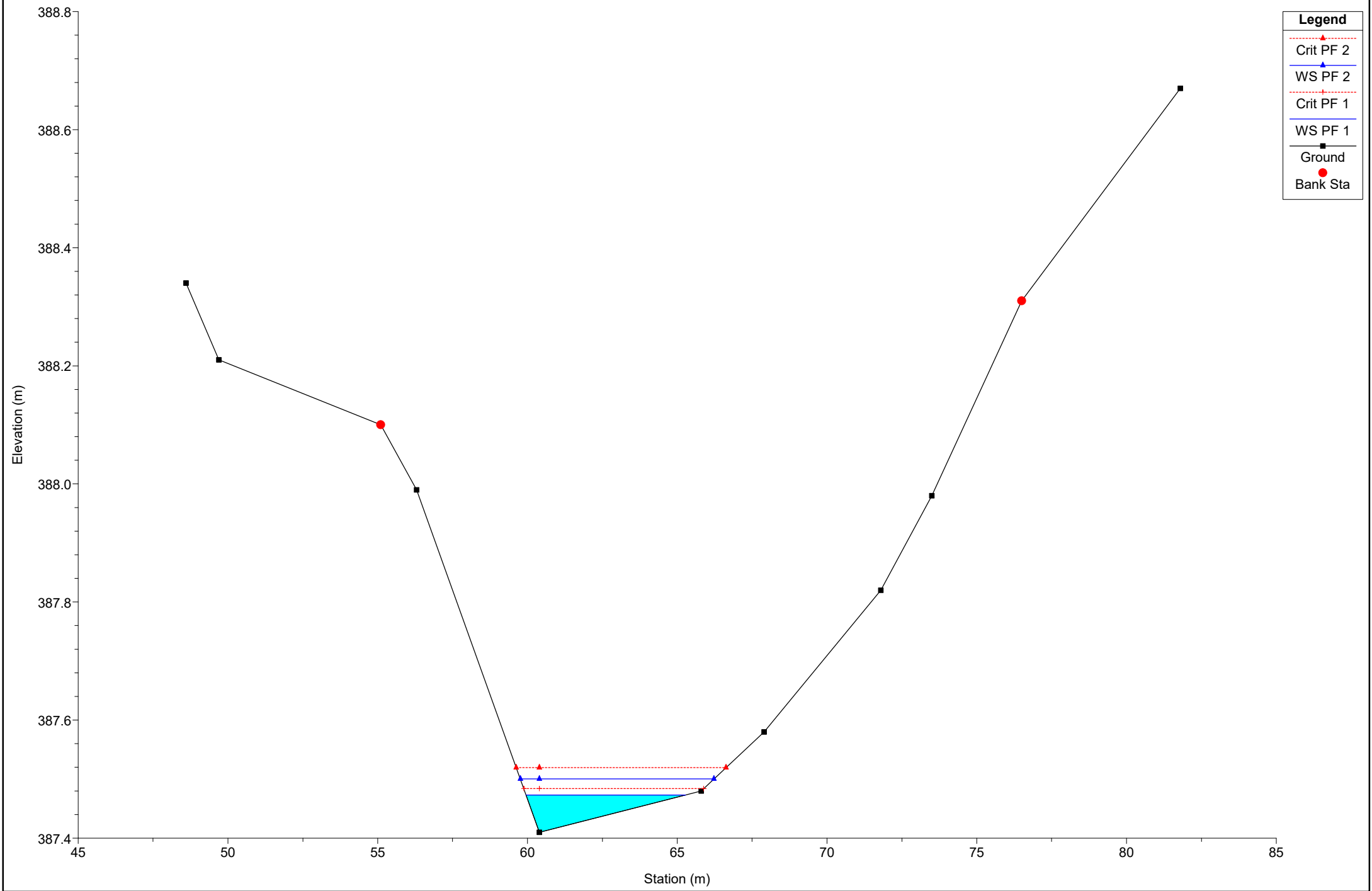
- WS PF 2
- Crit PF 2
- WS PF 1
- Crit PF 1
- Ground
- Bank Sta





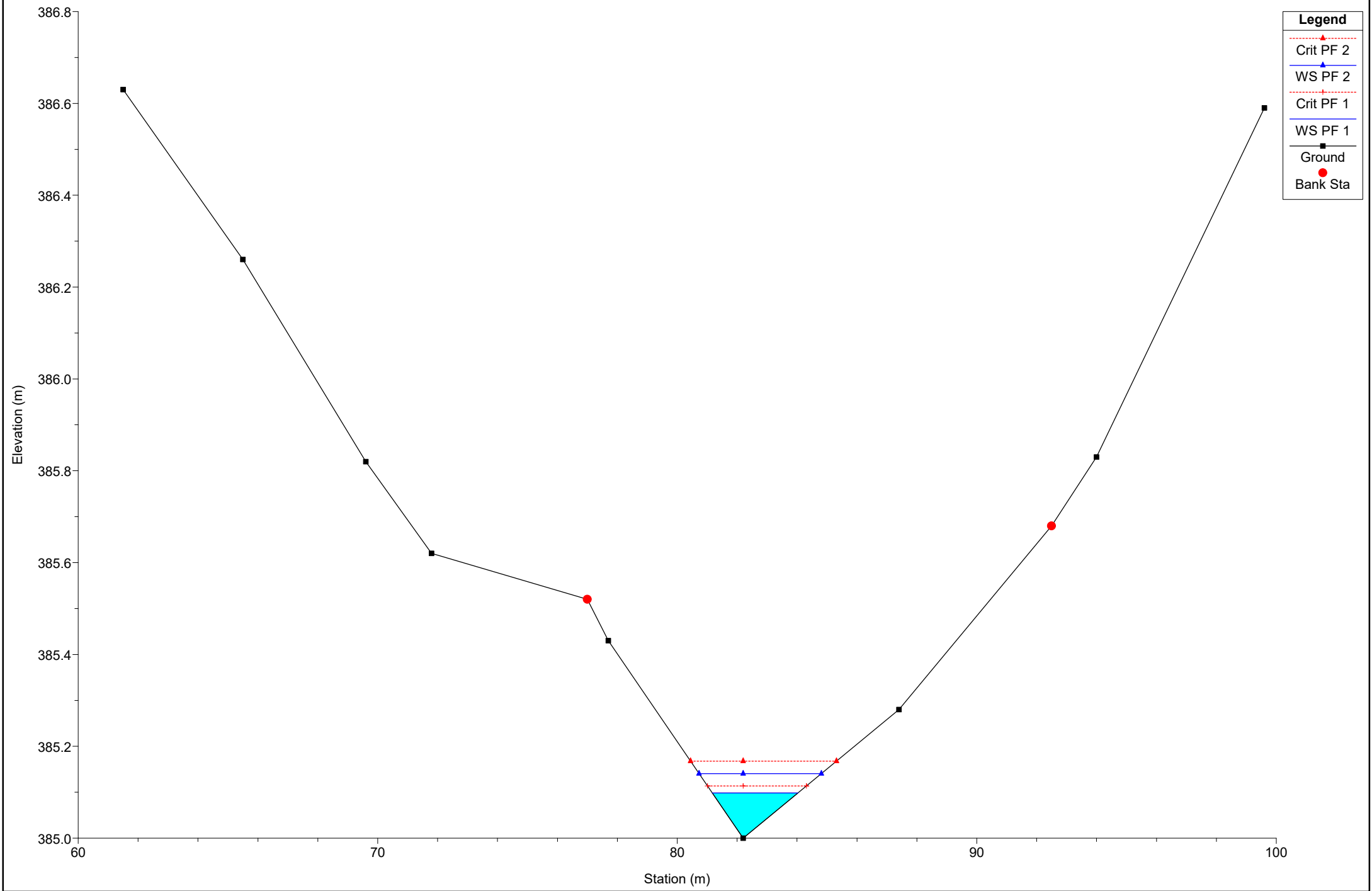
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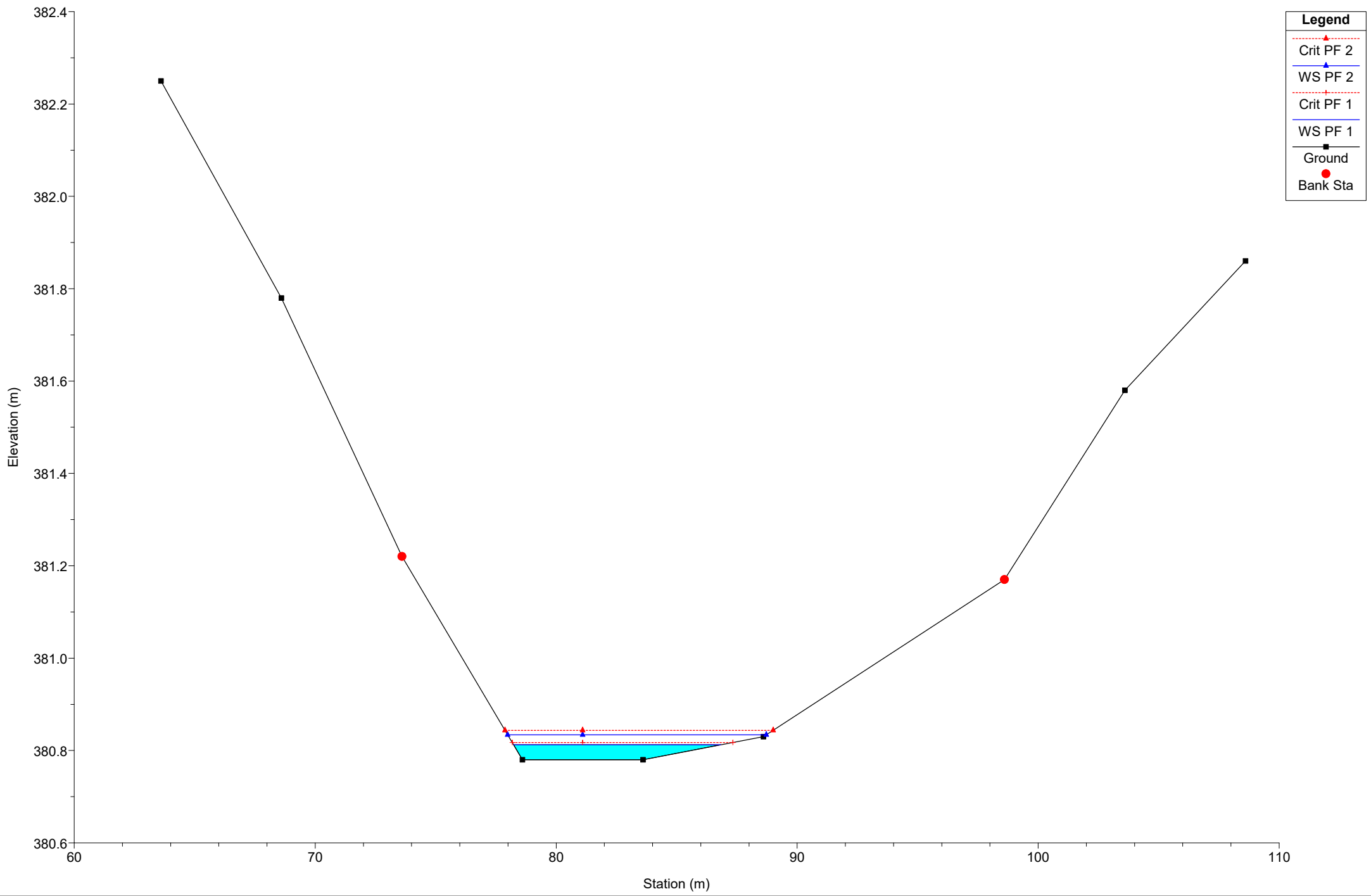
- Crit PF 2 (Red dashed line with triangle)
- WS PF 2 (Blue solid line with triangle)
- Crit PF 1 (Red dashed line with triangle)
- WS PF 1 (Blue solid line with triangle)
- Ground (Black solid line with square)
- Bank Sta (Red solid circle)



Legend

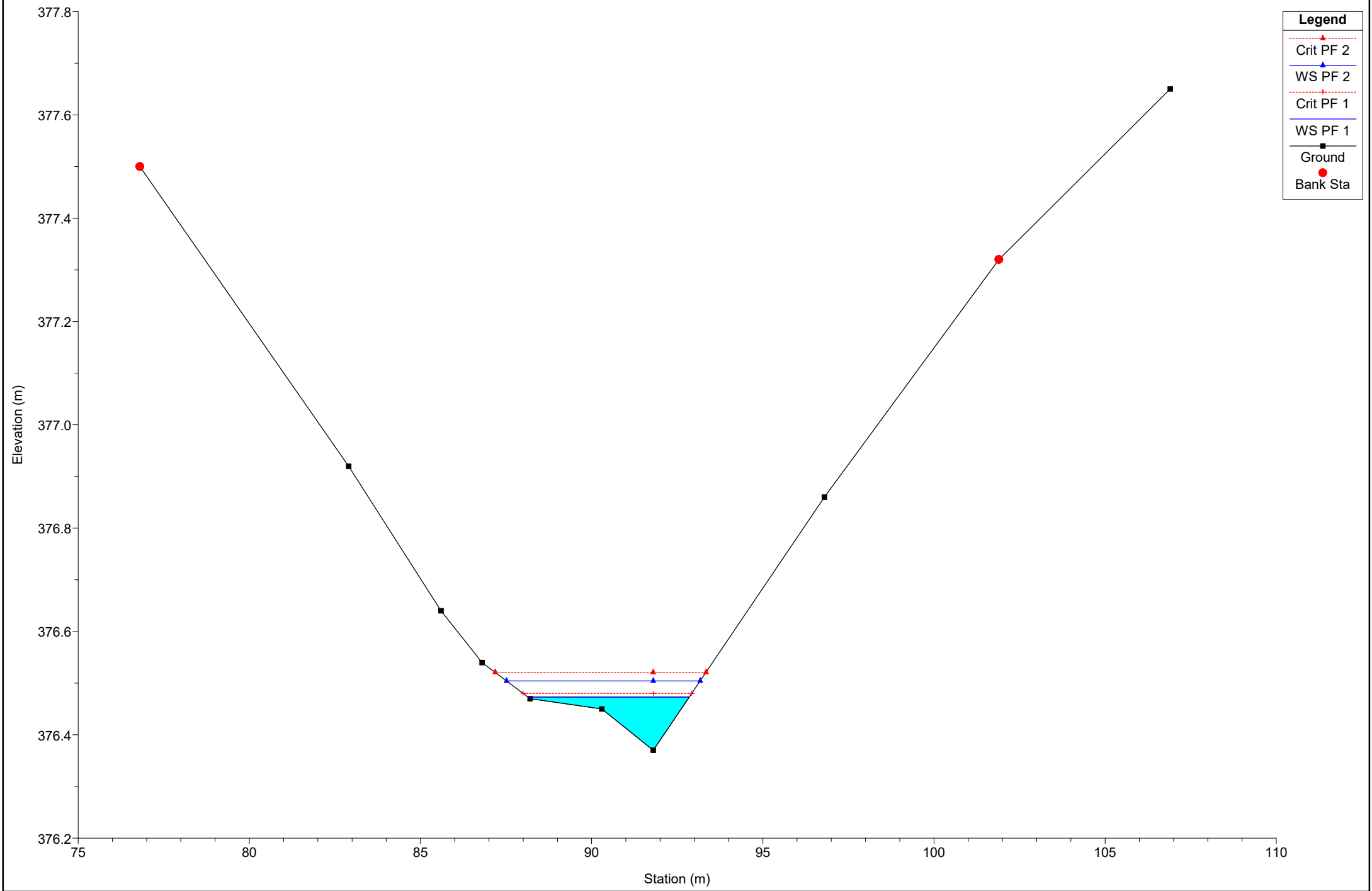
- Crit PF 2 (Red dashed line with triangle)
- WS PF 2 (Blue solid line with triangle)
- Crit PF 1 (Red dashed line with triangle)
- WS PF 1 (Blue solid line with triangle)
- Ground (Black solid line with square)
- Bank Sta (Red solid circle)





Legend

- Crit PF 2 (dashed red line with triangle marker)
- WS PF 2 (solid blue line with triangle marker)
- Crit PF 1 (dashed red line with triangle marker)
- WS PF 1 (solid blue line with triangle marker)
- Ground (solid black line with square marker)
- Bank Sta (red dot)

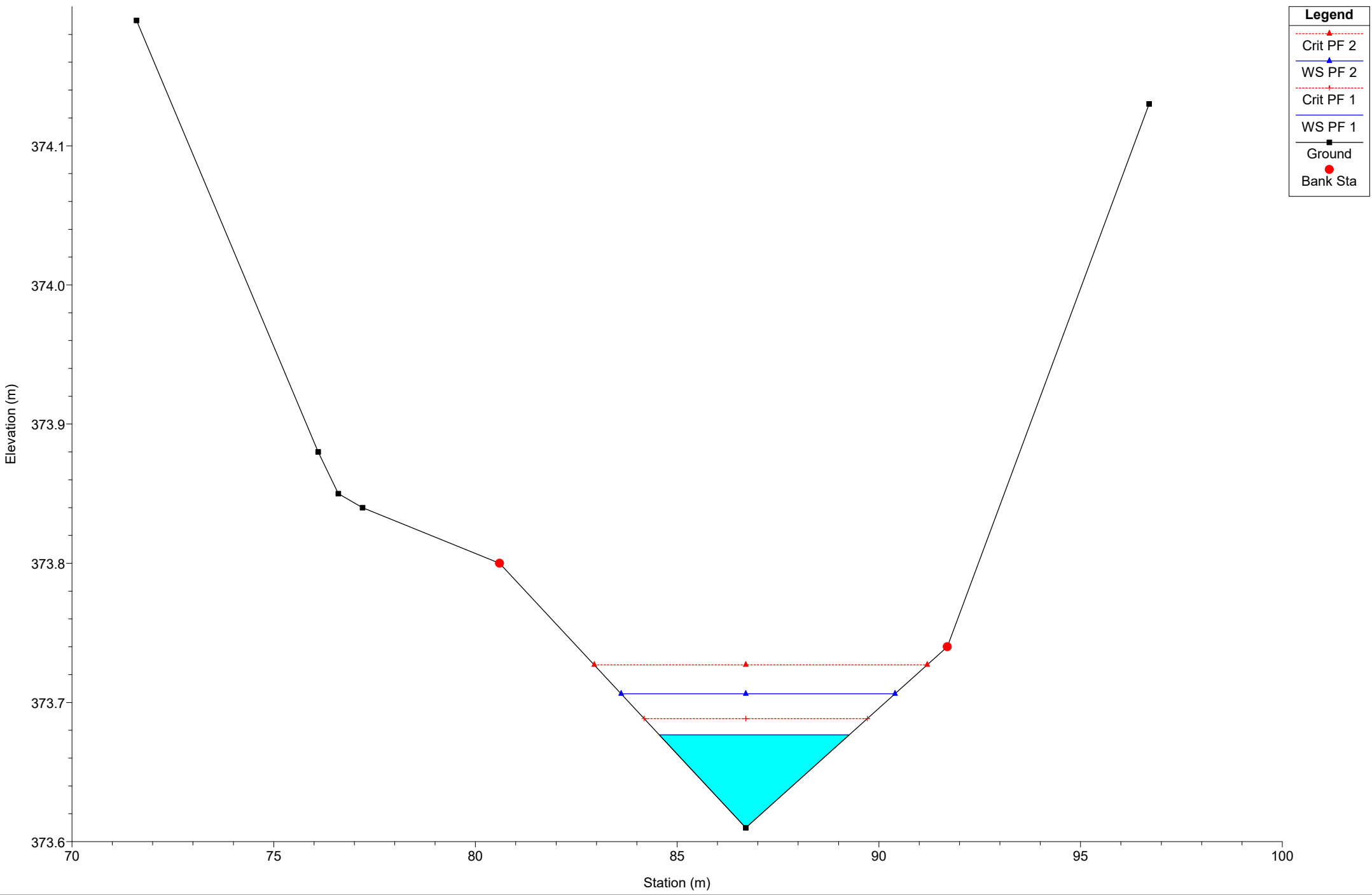


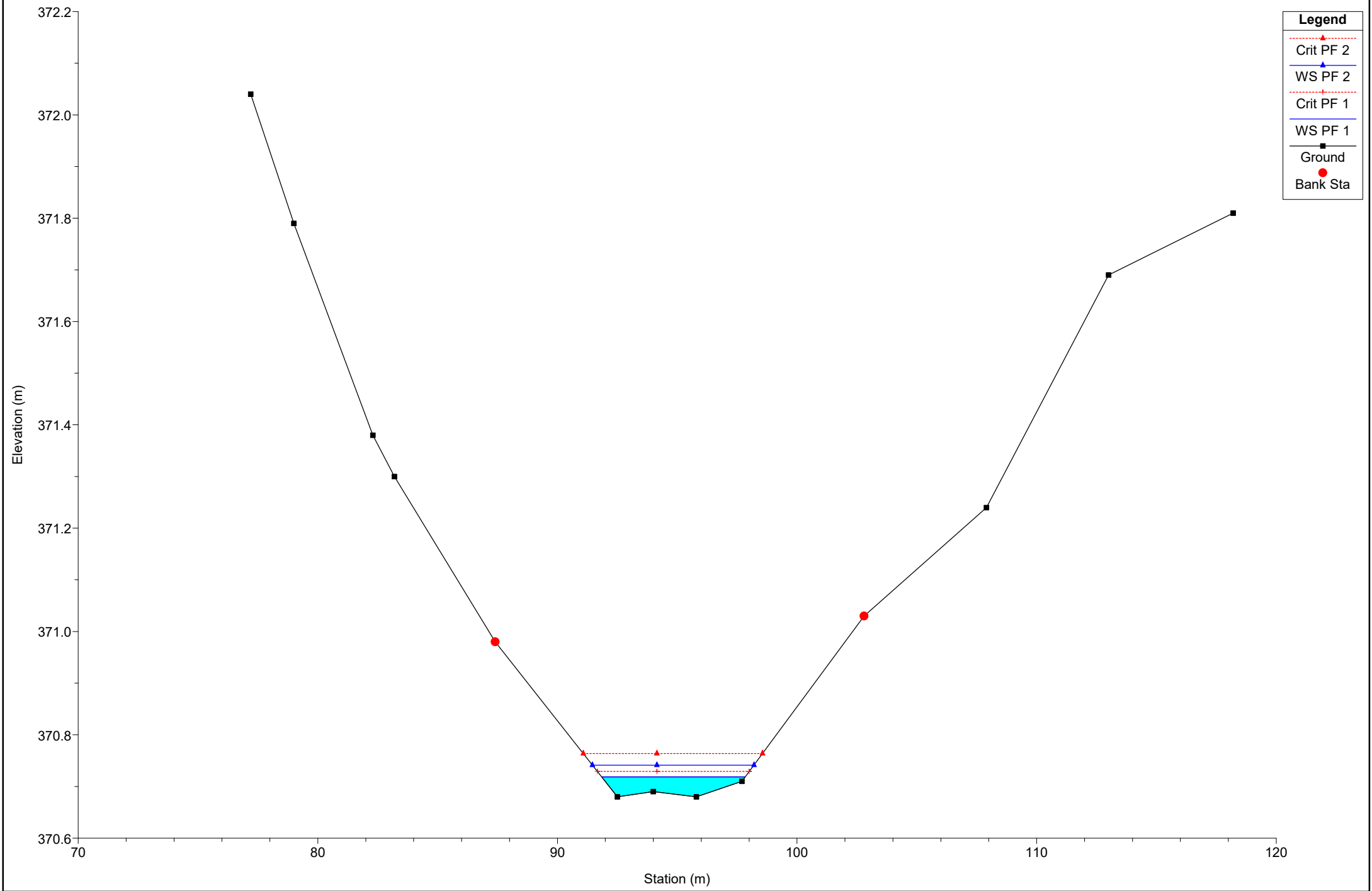
Legend

- Crit PF 2 (Red dashed line with triangle)
- WS PF 2 (Blue solid line with triangle)
- Crit PF 1 (Red dashed line with triangle)
- WS PF 1 (Blue solid line with triangle)
- Ground (Black solid line with square)
- Bank Sta (Red solid circle)

Legend

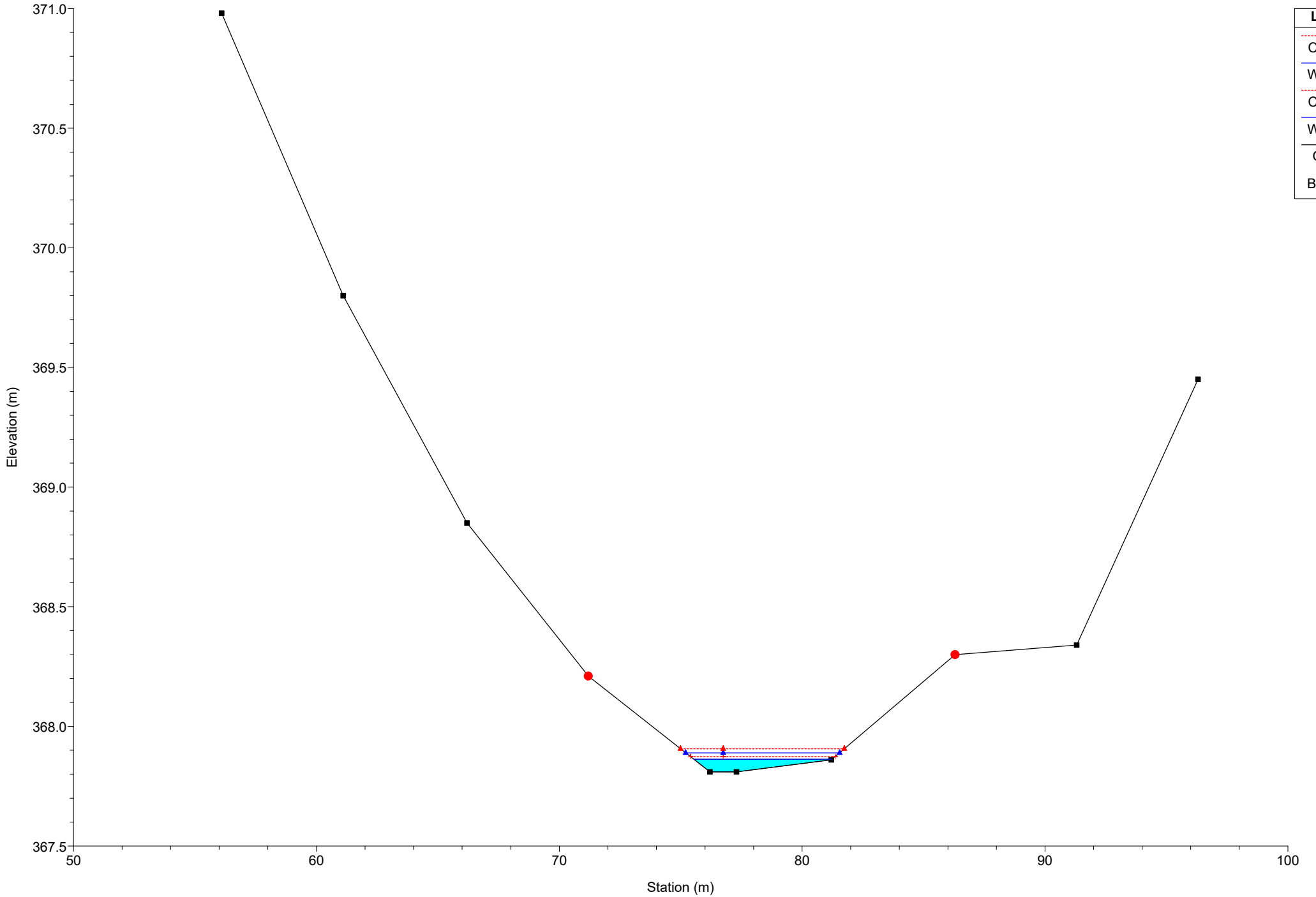
- Crit PF 2
- WS PF 2
- Crit PF 1
- WS PF 1
- Ground
- Bank Sta

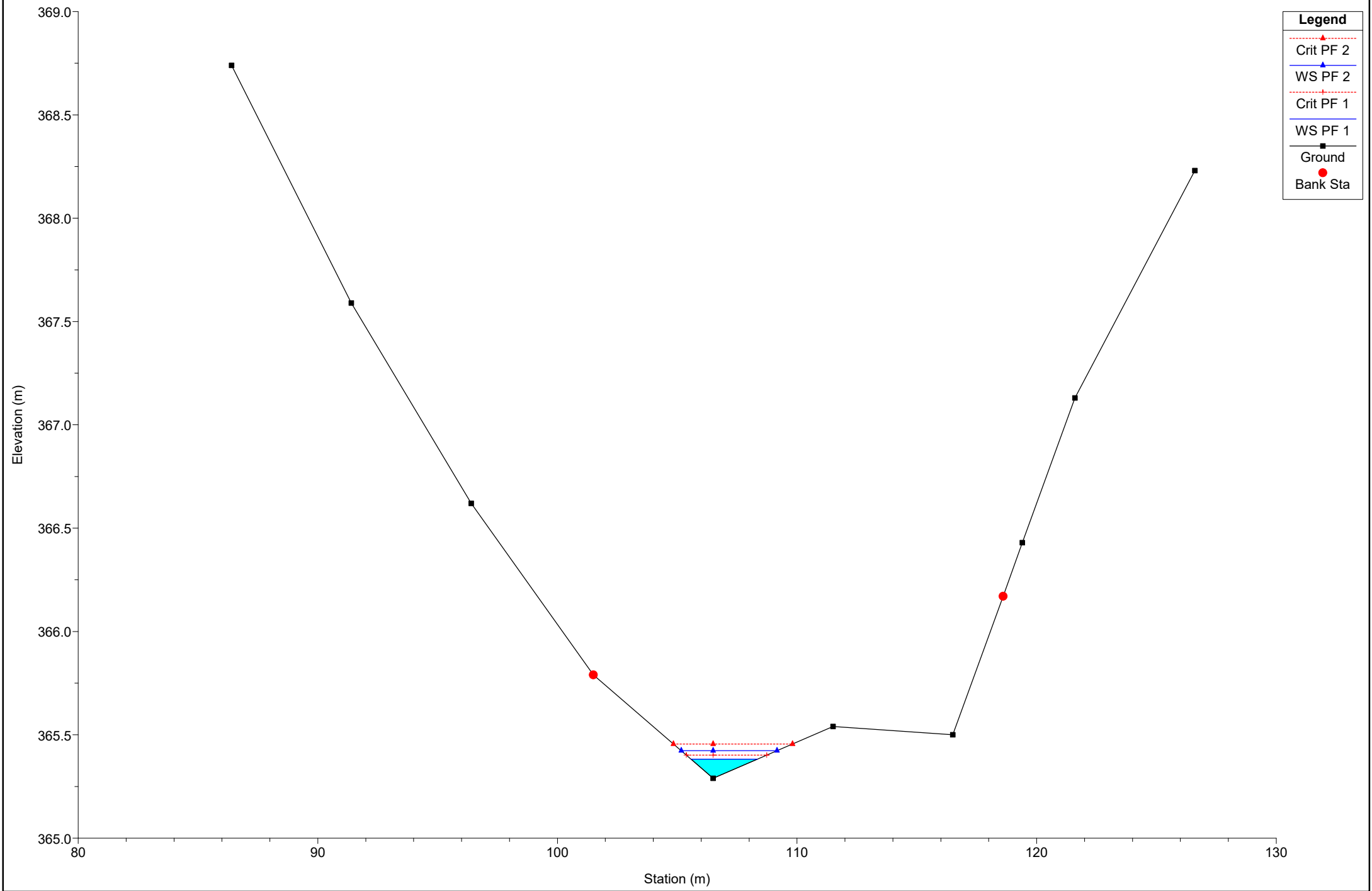


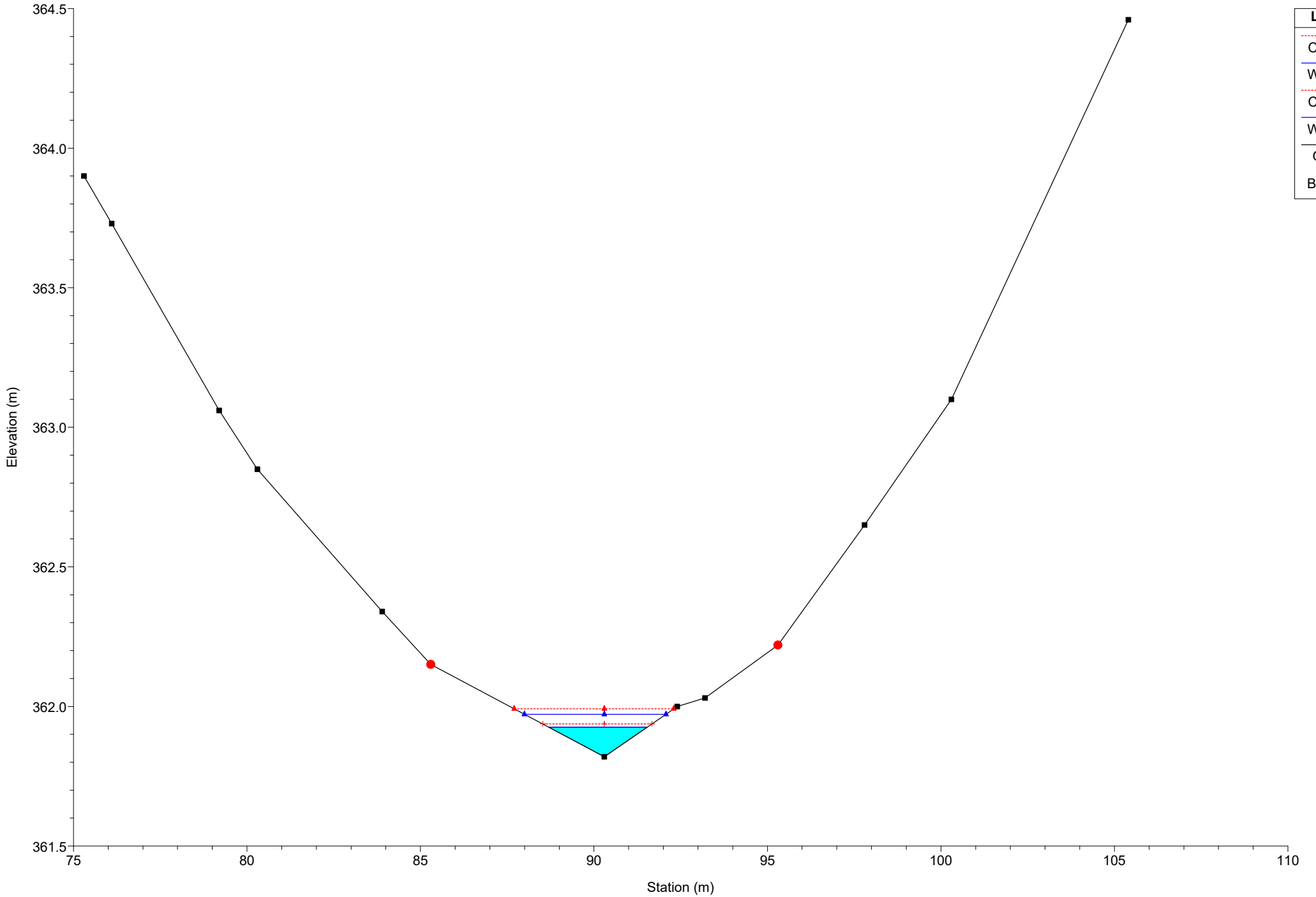


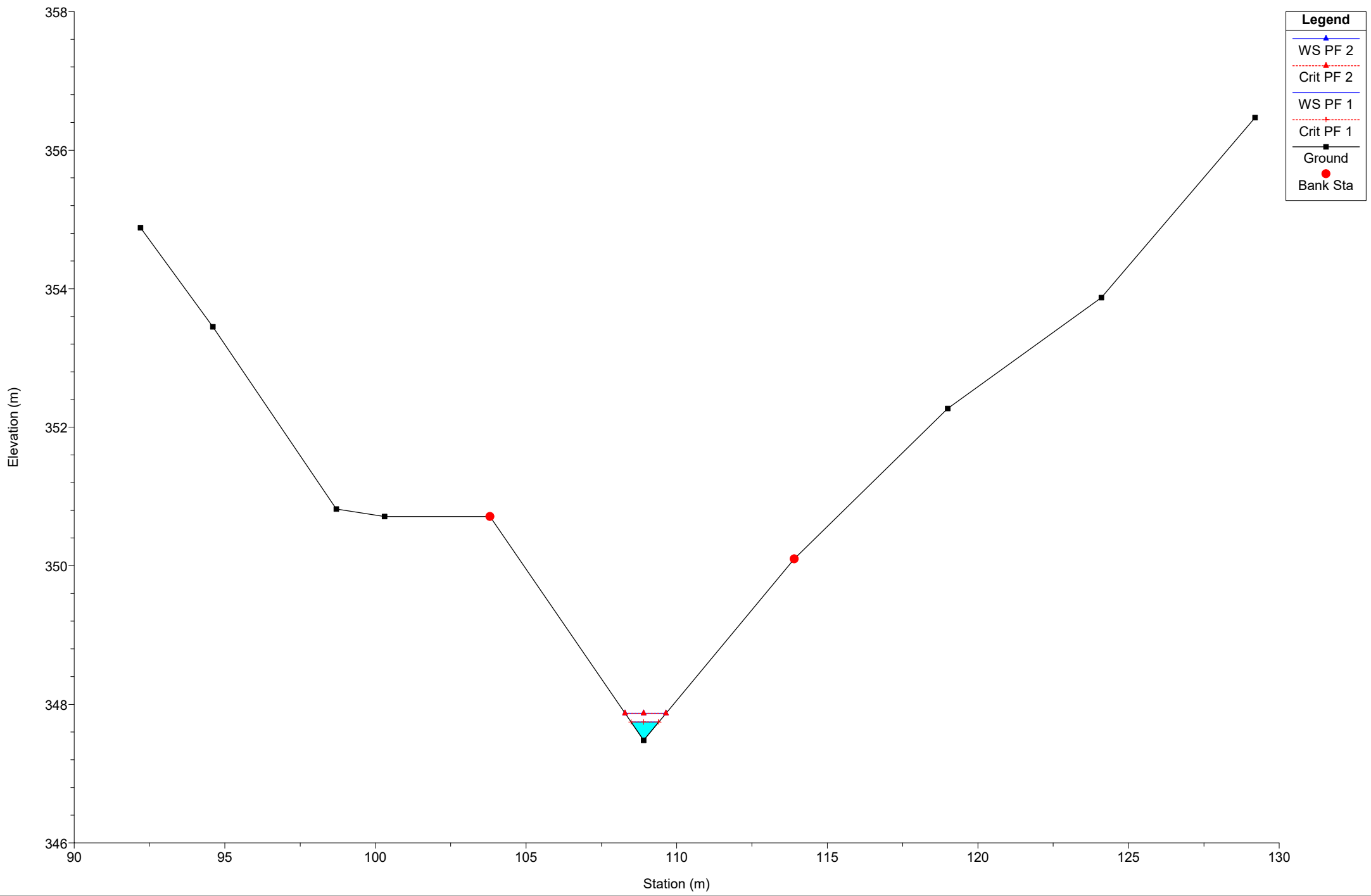
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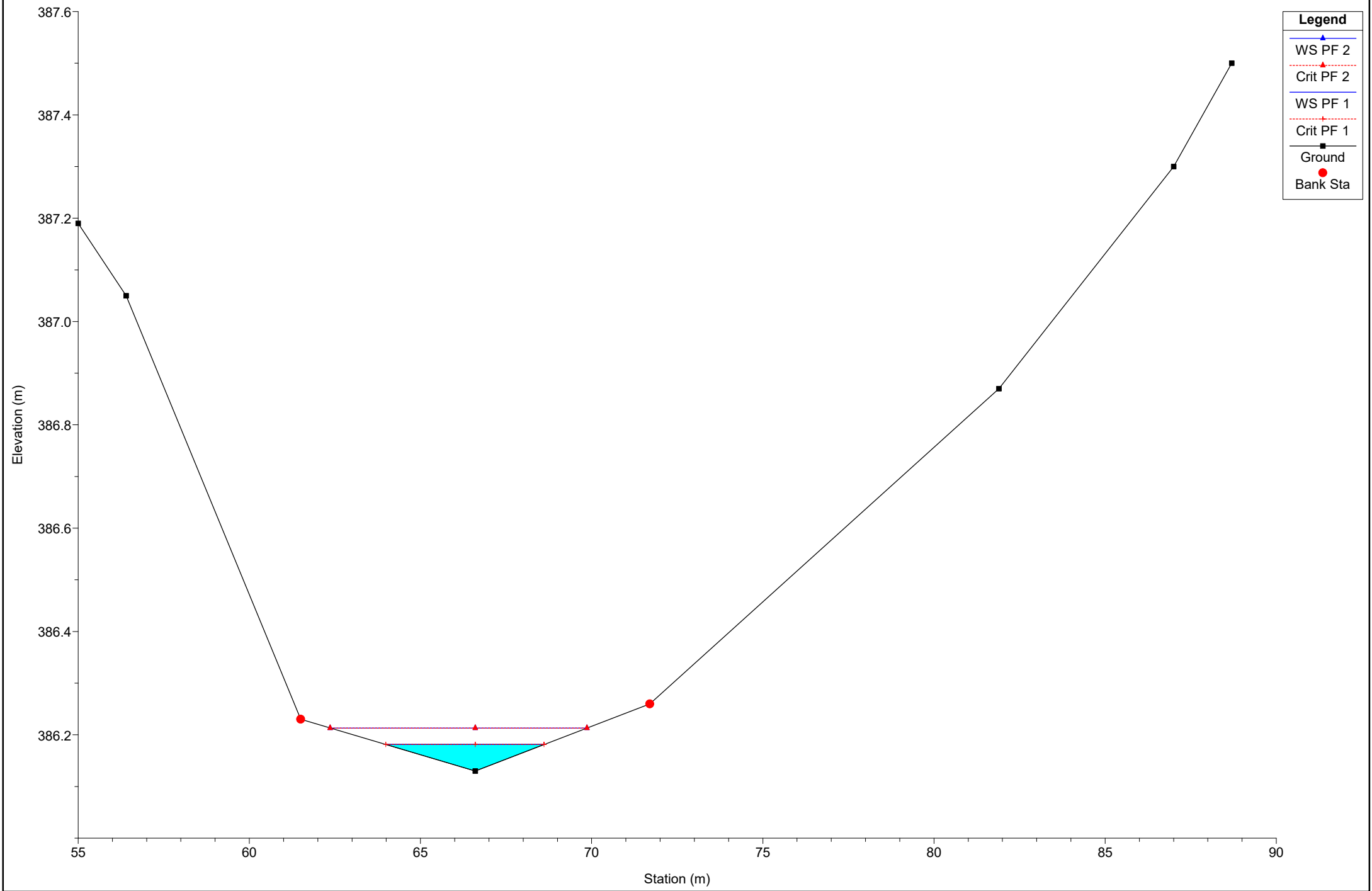
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- WS PF 2 (Blue solid line with upward-pointing triangle)
- Crit PF 1 (Red dotted line with upward-pointing triangle)
- WS PF 1 (Blue solid line with upward-pointing triangle)
- Ground (Black solid line with square marker)
- Bank Sta (Red solid circle)





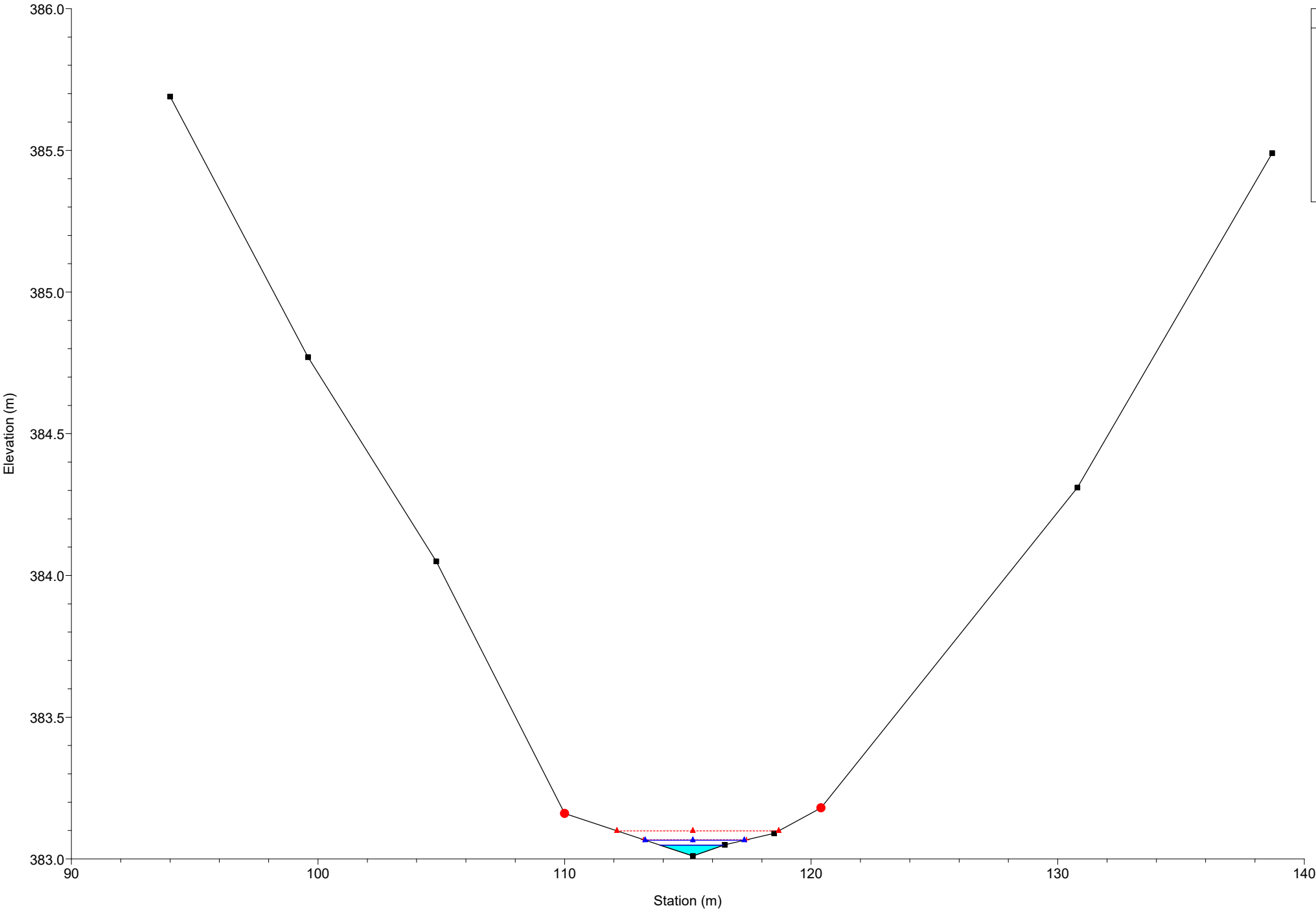


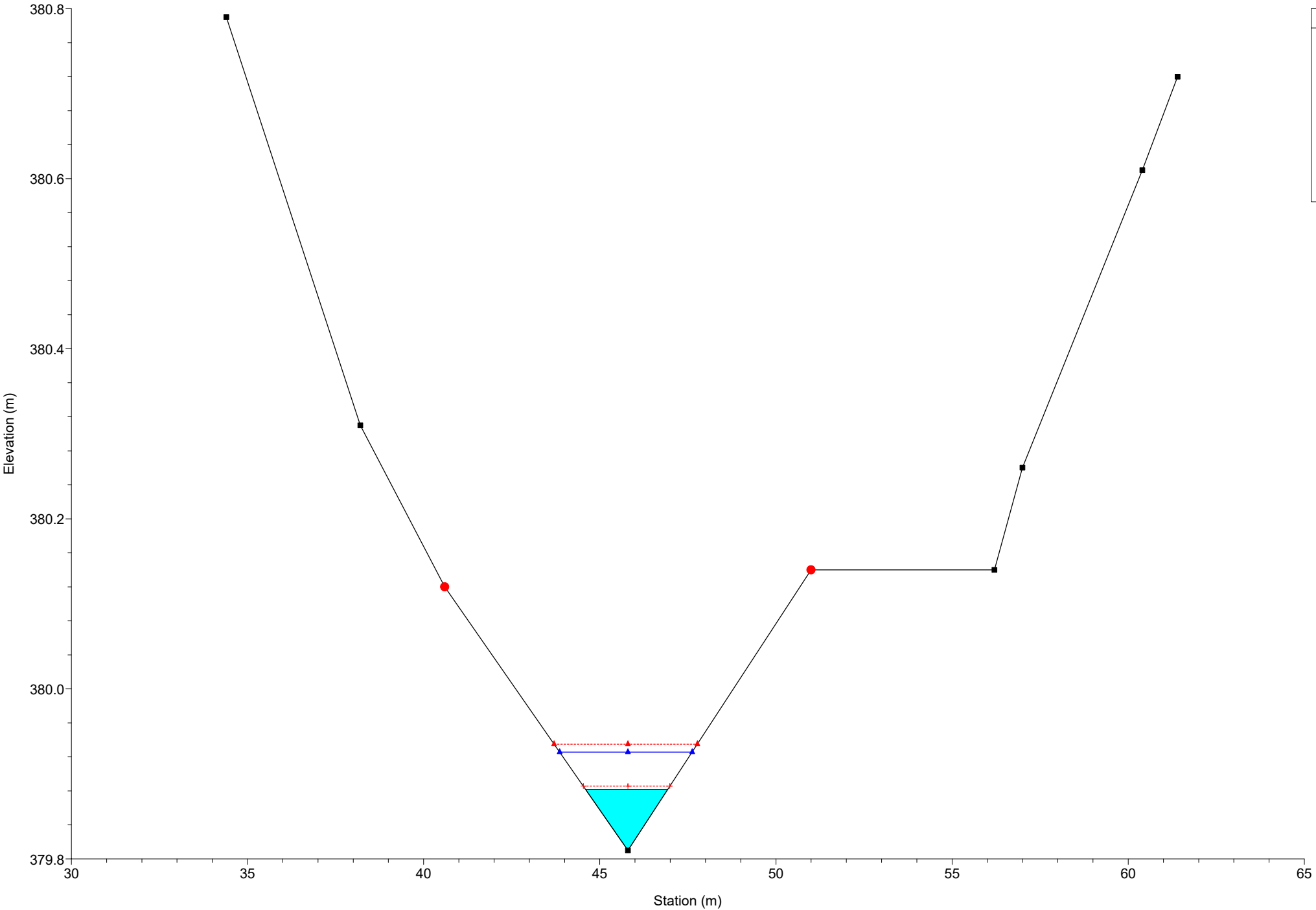
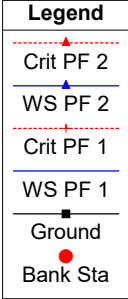


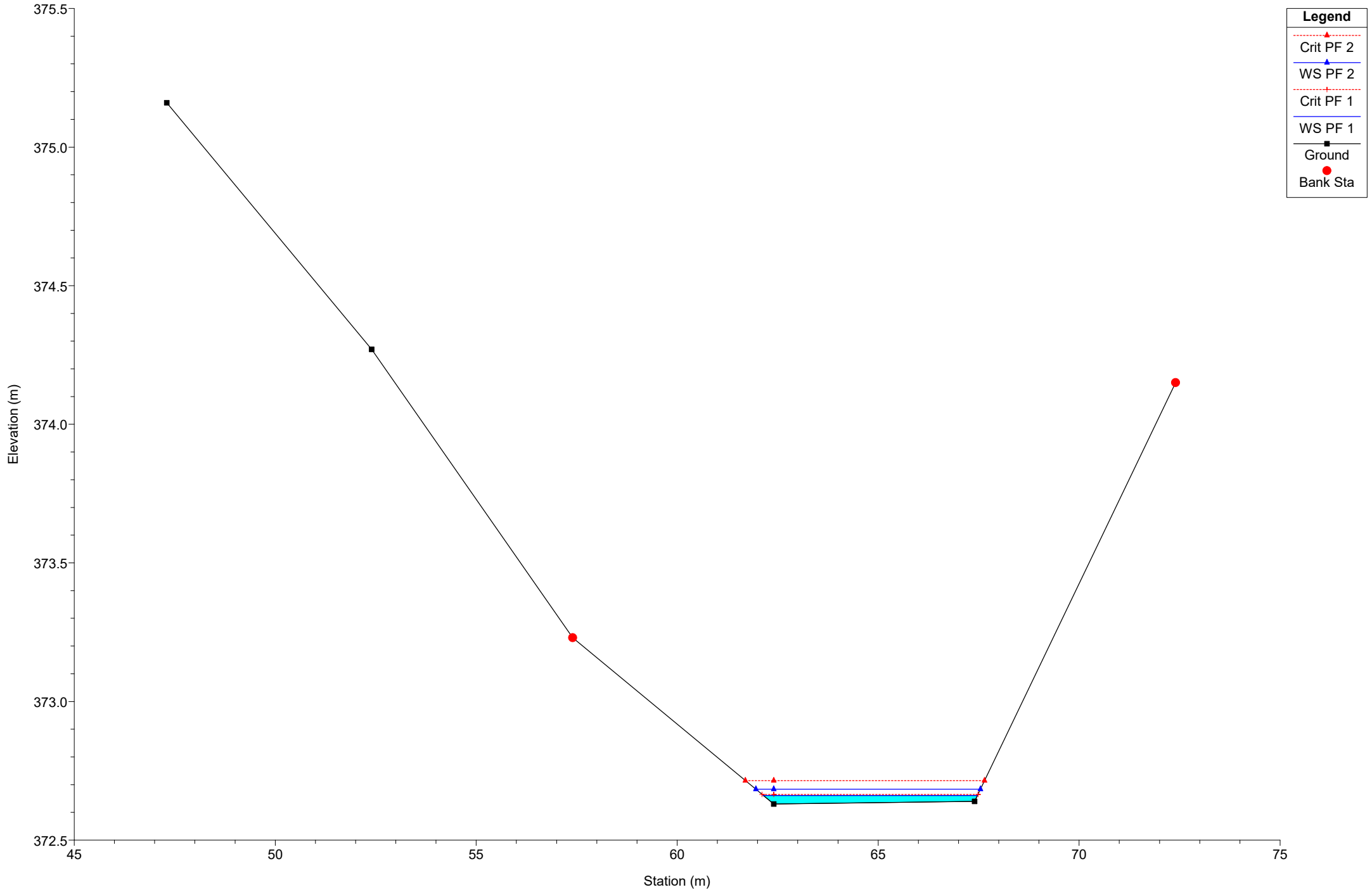


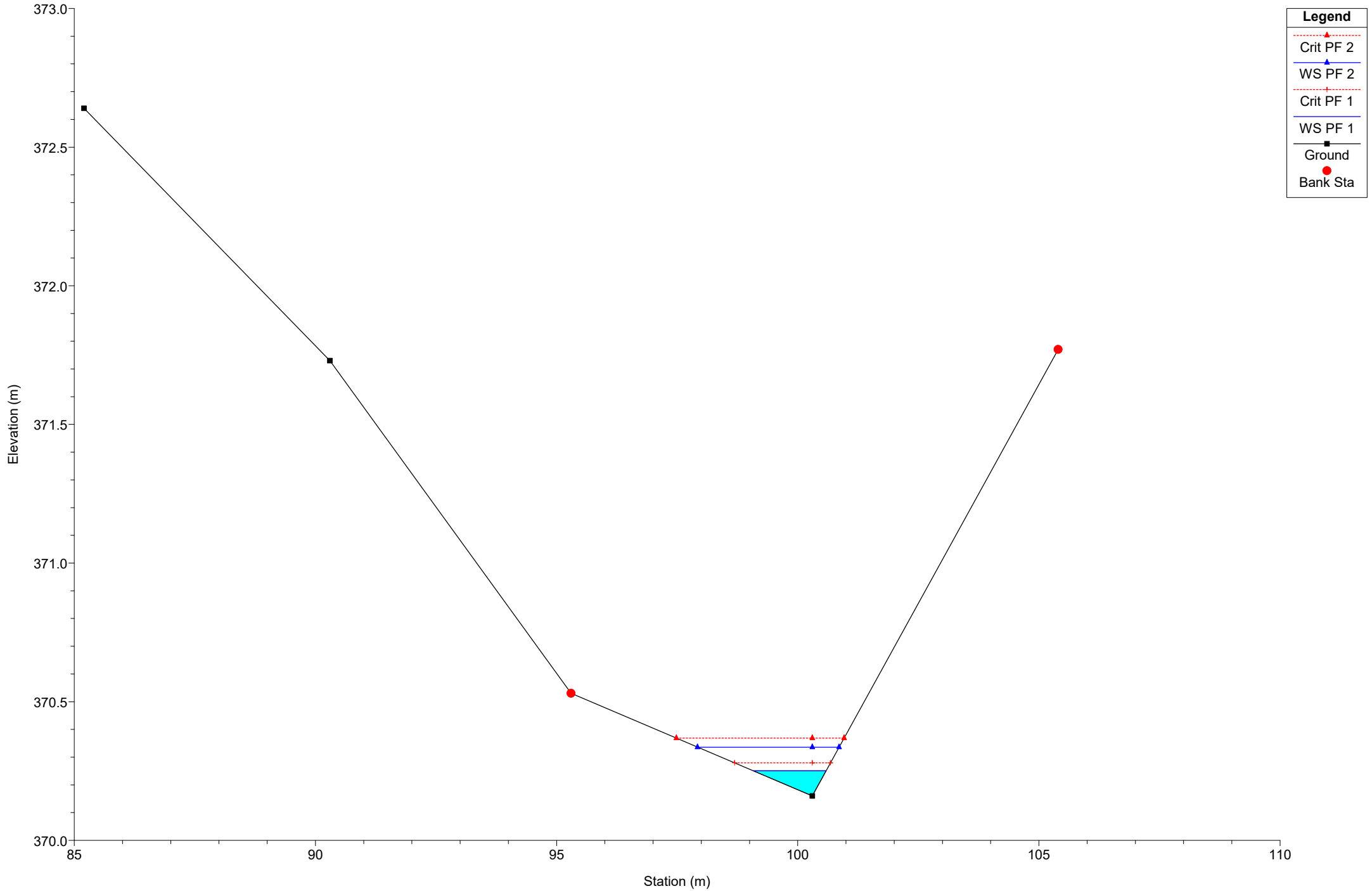
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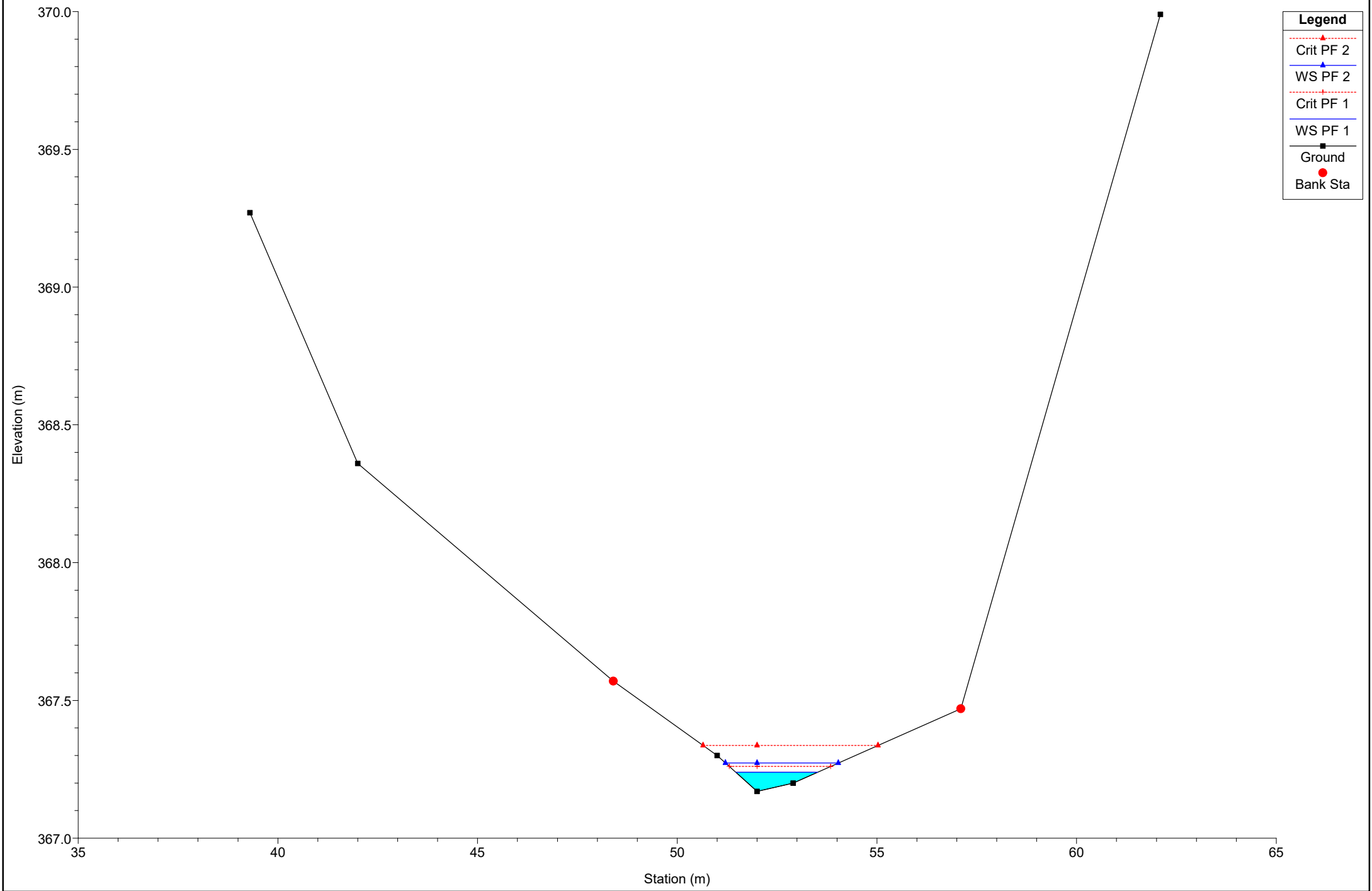
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- Crit PF 2 (dotted red line with triangle marker)
- WS PF 1 (solid blue line with triangle marker)
- Crit PF 1 (dotted red line with triangle marker)
- Ground (solid black line with square marker)
- Bank Sta (red circle marker)





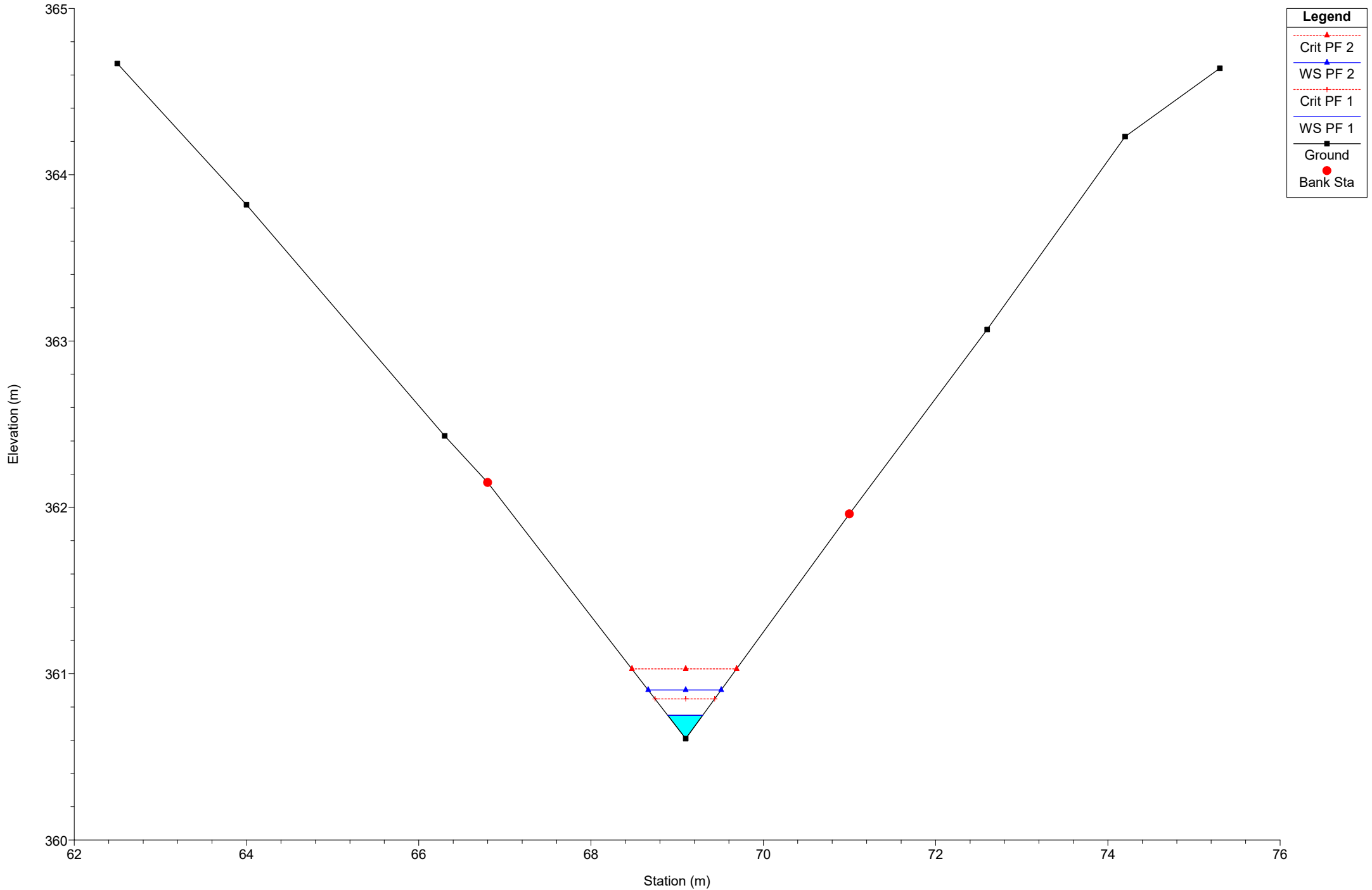


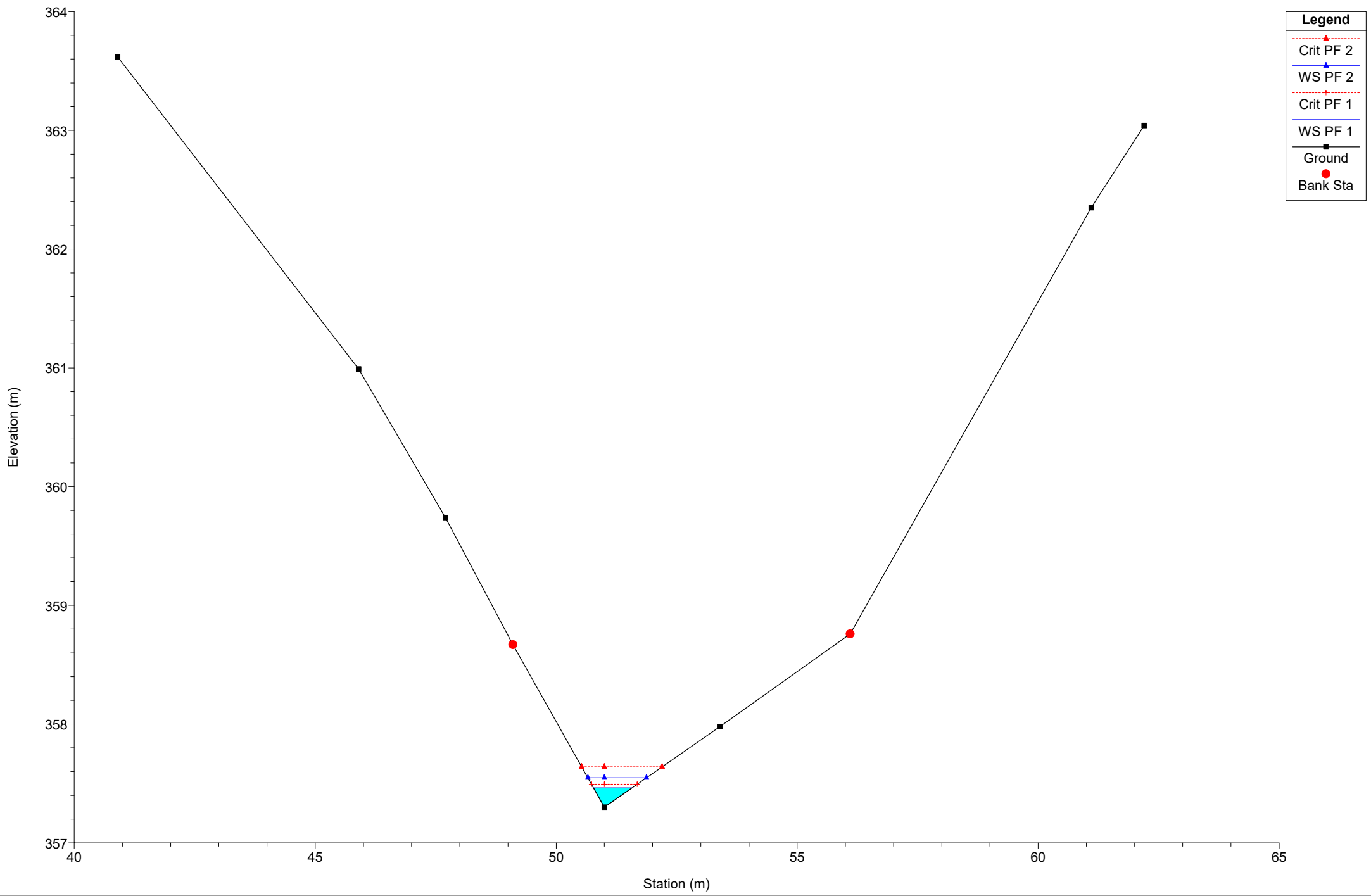




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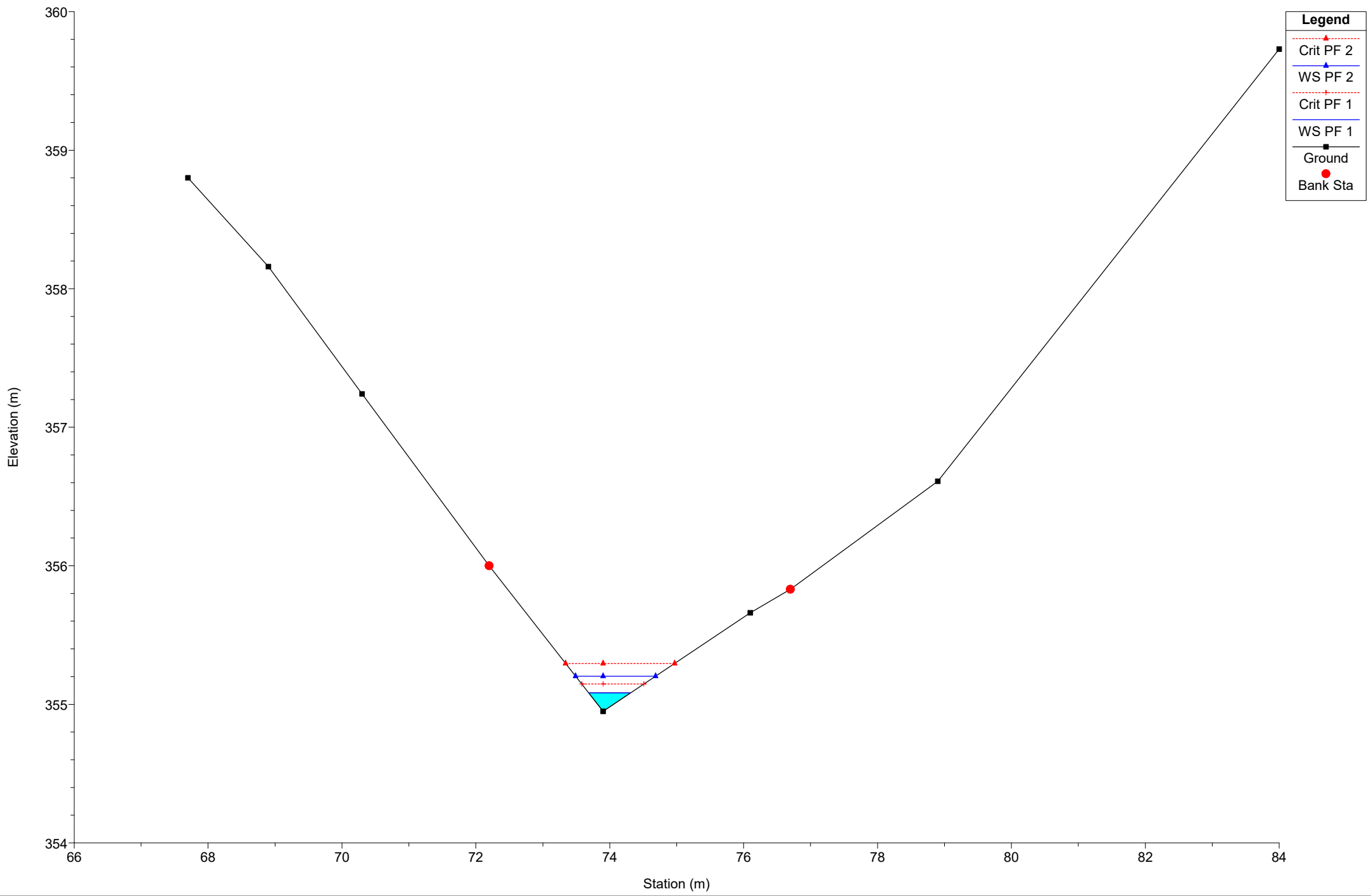
- Crit PF 2 (Red dotted line with triangle)
- WS PF 2 (Blue solid line with triangle)
- Crit PF 1 (Red dotted line with triangle)
- WS PF 1 (Blue solid line with triangle)
- Ground (Black solid line with square)
- Bank Sta (Red solid circle)





Legend

- Crit PF 2 (dashed red line with upward triangle)
- WS PF 2 (solid blue line with upward triangle)
- Crit PF 1 (dashed red line with upward triangle)
- WS PF 1 (solid blue line with upward triangle)
- Ground (solid black line with square)
- Bank Sta (red circle)



Legend

- WS PF 2
- Crit PF 2
- WS PF 1
- Crit PF 1
- Ground
- Bank Sta

