

COMUNE di SIENA

Area Tecnica Gestione del Territorio

REGOLAMENTO URBANISTICO DEL COMUNE DI SIENA

*Analisi idrologico-idrauliche a supporto
delle previsioni di R.U. adottato*

ATI 6: Borro del Casino e ATI 7: F.so Bocca di Cane

ELABORATO: D02

ALLEGATO A

Risultati grafico-numeriche della modellazione idraulica - B.ro del Casino e F.so della Bocca di Cane



Ass. Prof. iDeA di A. Bastianacci e L. Castellani

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REVISIONE	DESCRIZIONE	DATA
A	PRIMA EMISSIONE	Novembre 2010

RISULTATI GRAFICO-NUMERICI DELLA MODELLAZIONE IDRAULICA DEL

B.RO DEL CASINO NELLO STATO ATTUALE

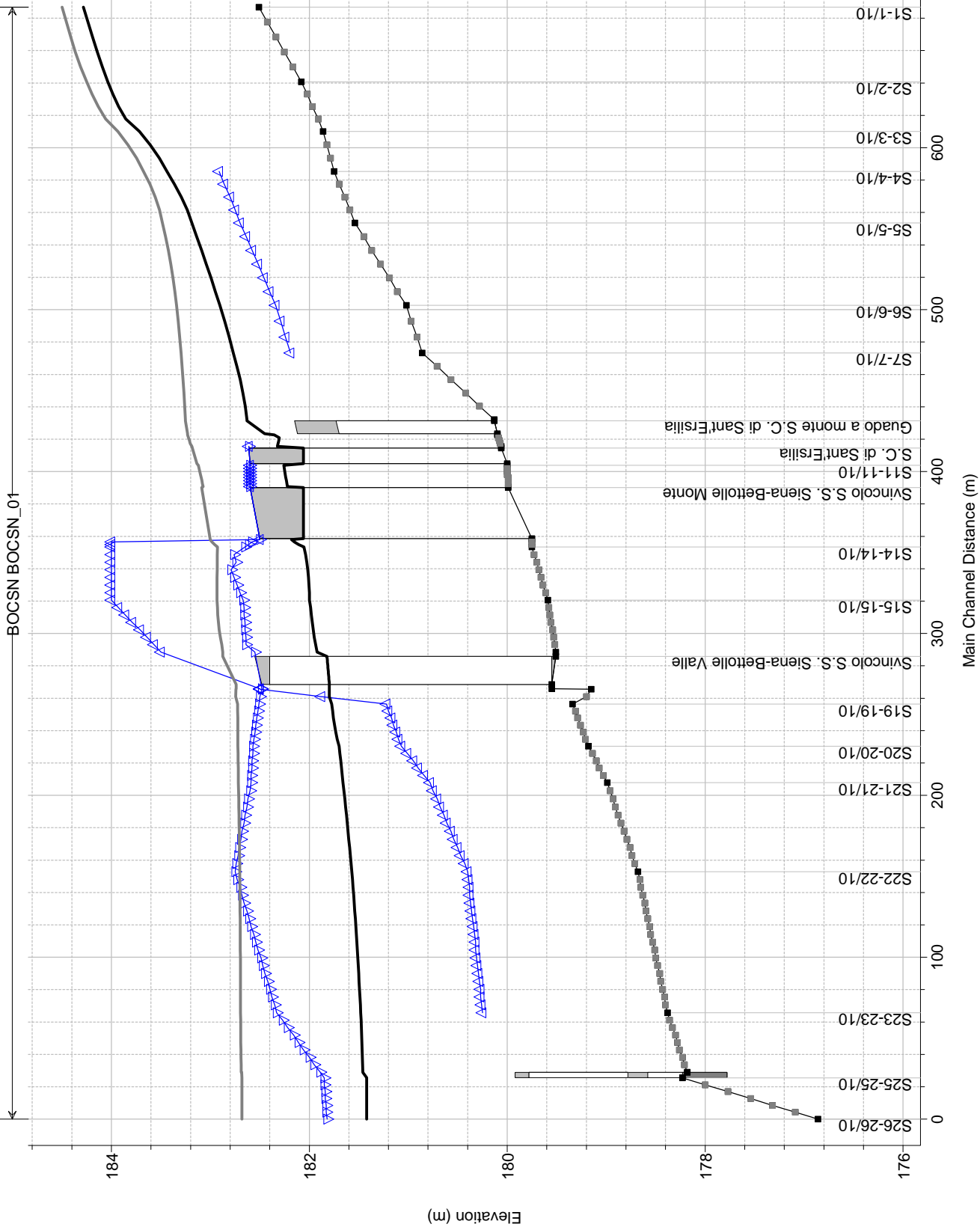
MOTO VARIO

Tratto	Sezioni (RS)	Tr
Unico	720.31 ÷ 33.32	30, 200 <i>anni</i>

LEGENDA:

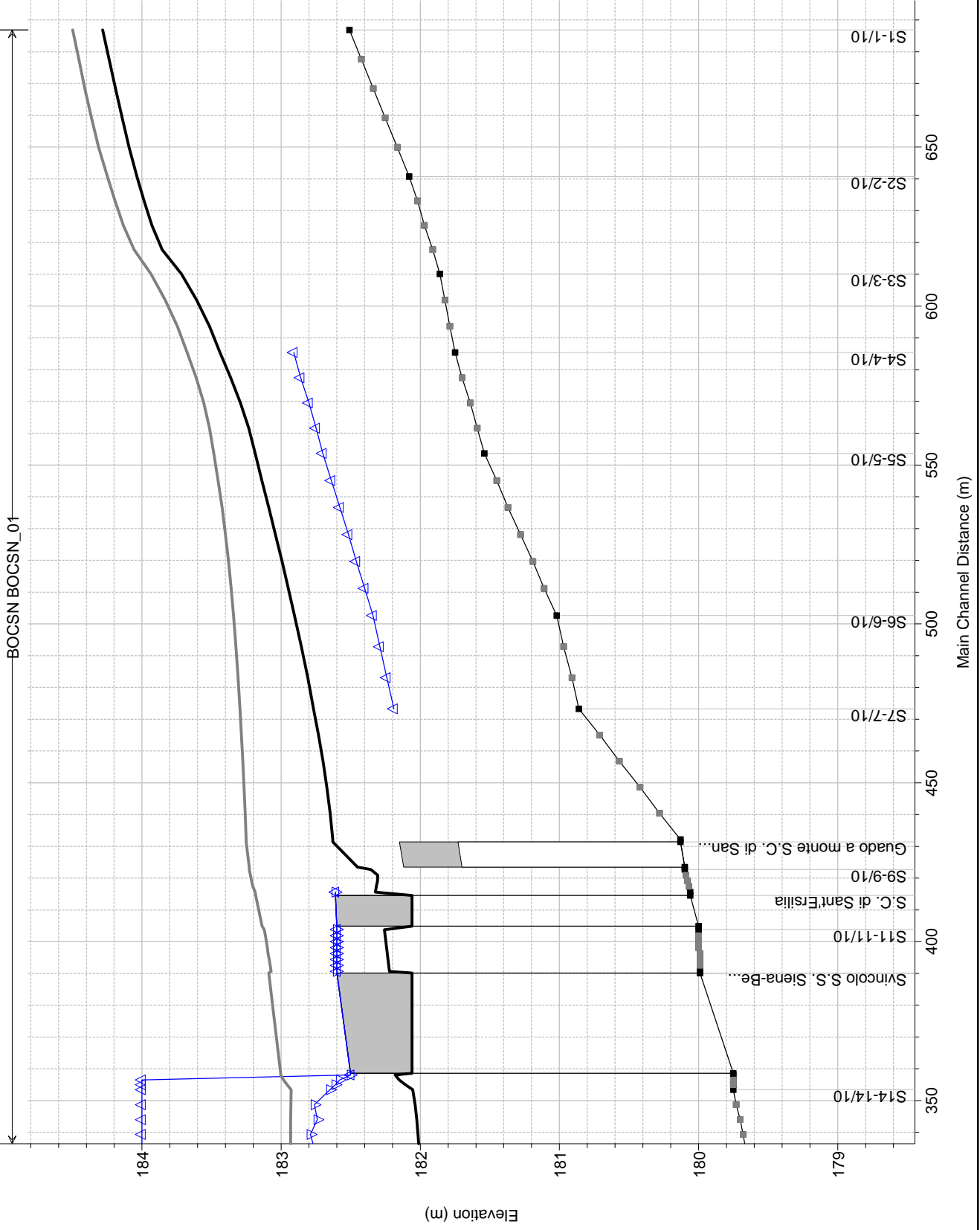
Codice	Significato	U.M.
EG	Carico totale	<i>m s.l.m.</i>
P.L.	Pelo libero	<i>m s.l.m.</i>
Crit.	Altezza critica della corrente	<i>m s.l.m.</i>
Vel.	Velocità della corrente	<i>m/s</i>

BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010



Legend	
P.L. Max WS - 200Y-1.5H_A2SA	(Black line)
P.L. Max WS - 30Y-1.5H_A2SA	(Grey line)
Ground	(Black line with square markers)
Arginine SX	(Blue line with upward triangles)
Arginine DX	(Blue line with downward triangles)

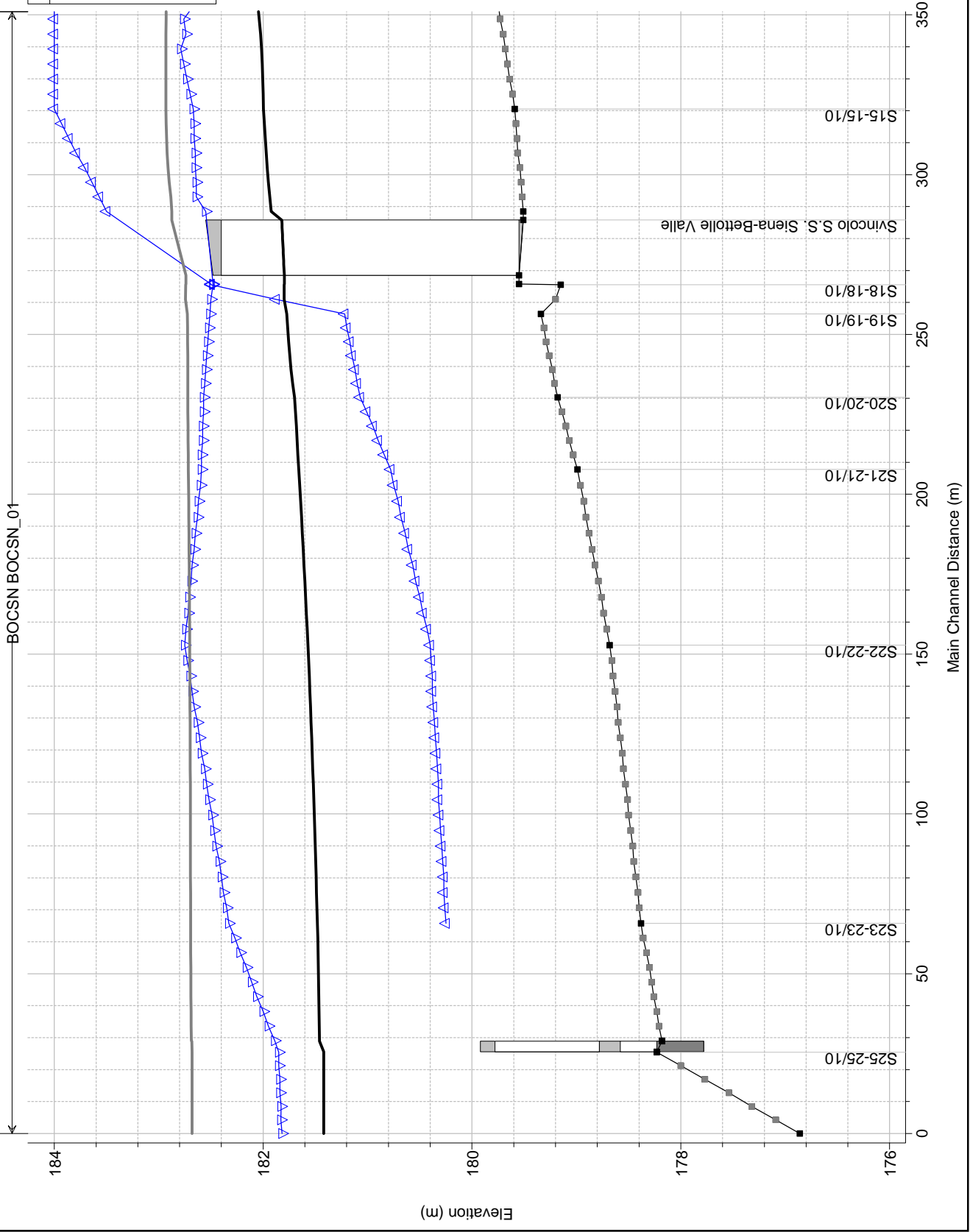
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010



Legend

- P.L. Max WS - 200Y-1.5H_A2SA
- P.L. Max WS - 30Y-1.5H_A2SA
- Ground
- Argine SX
- Argine DX

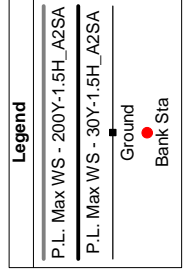
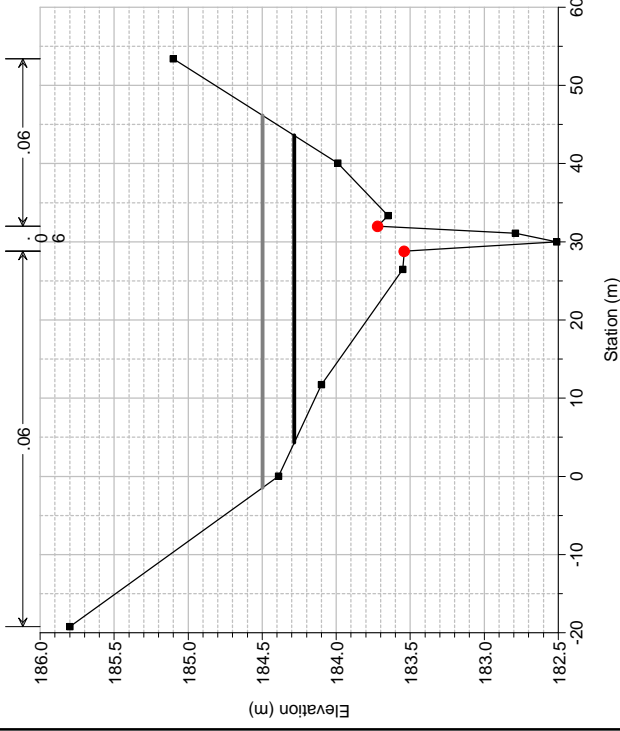
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010



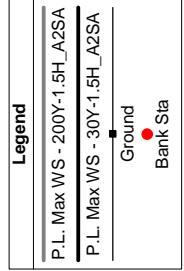
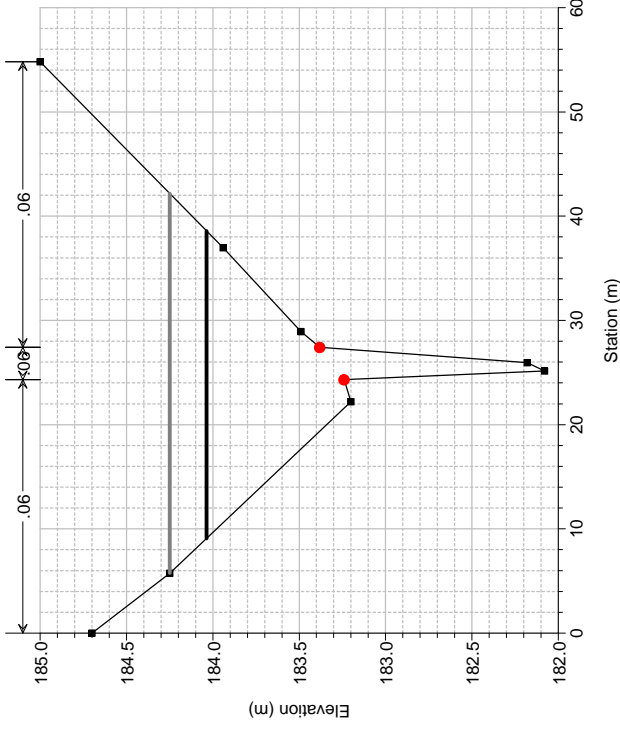
Legend	
—	P.L. Max WS - 200Y-1.5H_A2SA
—	P.L. Max WS - 30Y-1.5H_A2SA
■	Ground
—△	Argine SX
—△	Argine DX

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
BOCSN_01	720.31	Max WS	30Y-1.5H_A2SA	13.68	182.51	184.28	184.03	184.33	0.005109	1.23	17.84	39.30	0.34
BOCSN_01	720.31	Max WS	200Y-1.5H_A2SA	22.51	182.51	184.50	184.18	184.54	0.004660	1.30	27.30	47.65	0.34
BOCSN_01	674.15	Max WS	30Y-1.5H_A2SA	13.67	182.08	184.04	183.75	184.09	0.005737	1.34	15.28	29.47	0.35
BOCSN_01	674.15	Max WS	200Y-1.5H_A2SA	22.51	182.08	184.25	183.94	184.32	0.006211	1.53	22.30	36.40	0.38
BOCSN_01	643.48	Max WS	30Y-1.5H_A2SA	13.67	181.86	183.72	183.62	183.86	0.015085	2.06	10.11	24.87	0.57
BOCSN_01	643.48	Max WS	200Y-1.5H_A2SA	22.50	181.86	183.94	183.83	184.07	0.013690	2.17	16.37	32.55	0.56
BOCSN_01	618.82	Max WS	30Y-1.5H_A2SA	13.67	181.75	183.44	183.18	183.52	0.009723	1.50	11.85	24.27	0.47
BOCSN_01	618.82	Max WS	200Y-1.5H_A2SA	22.49	181.75	183.67	183.41	183.77	0.009077	1.66	18.04	28.28	0.46
BOCSN_01	587.00	Max WS	30Y-1.5H_A2SA	13.67	181.54	183.19	182.89	183.23	0.005904	1.10	15.78	31.94	0.35
BOCSN_01	587.00	Max WS	200Y-1.5H_A2SA	22.46	181.54	183.48	183.03	183.52	0.004125	1.09	26.42	39.52	0.30
BOCSN_01	536.05	Max WS	30Y-1.5H_A2SA	13.66	181.02	182.90	182.57	182.94	0.005178	0.98	17.49	34.86	0.31
BOCSN_01	536.05	Max WS	200Y-1.5H_A2SA	22.43	181.02	183.34	182.72	183.36	0.002002	0.77	35.32	45.97	0.20
BOCSN_01	506.65	Max WS	30Y-1.5H_A2SA	13.66	180.86	182.77	182.43	182.80	0.004107	0.98	18.79	35.45	0.29
BOCSN_01	506.65	Max WS	200Y-1.5H_A2SA	22.43	180.86	183.30	182.57	183.31	0.001328	0.71	41.57	50.54	0.17
BOCSN_01	465.57	Max WS	30Y-1.5H_A2SA	13.64	180.13	182.63		182.66	0.001997	0.94	20.51	31.66	0.23
BOCSN_01	465.57	Max WS	200Y-1.5H_A2SA	22.42	180.13	183.25		183.27	0.000793	0.73	44.76	44.96	0.15
BOCSN_01	460.83			Culvert									
BOCSN_01	456.09	Max WS	30Y-1.5H_A2SA	13.65	180.10	182.36	181.67	182.43	0.004946	1.34	13.25	24.16	0.35
BOCSN_01	456.09	Max WS	200Y-1.5H_A2SA	22.42	180.10	183.23	182.25	183.25	0.000861	0.76	42.36	41.57	0.16
BOCSN_01	448.99	Max WS	30Y-1.5H_A2SA	13.65	180.06	182.32	180.79	182.36	0.001752	0.86	15.83	7.00	0.18
BOCSN_01	448.99	Max WS	200Y-1.5H_A2SA	22.42	180.06	183.19	181.07	183.23	0.002029	0.98	25.96	30.51	0.18
BOCSN_01	443.10			Bridge									
BOCSN_01	437.20	Max WS	30Y-1.5H_A2SA	13.65	180.00	182.26	180.75	182.30	0.003024	0.90	15.18	7.00	0.19
BOCSN_01	437.20	Max WS	200Y-1.5H_A2SA	22.42	180.00	183.12	181.05	183.17	0.003218	1.02	24.58	35.76	0.19
BOCSN_01	424.06	Max WS	30Y-1.5H_A2SA	13.64	179.99	182.22	180.74	182.26	0.003129	0.91	15.01	7.00	0.20
BOCSN_01	424.06	Max WS	200Y-1.5H_A2SA	22.42	179.99	183.07	181.03	183.13	0.003518	1.06	22.52	28.65	0.20
BOCSN_01	406.45			Bridge									
BOCSN_01	391.48	Max WS	30Y-1.5H_A2SA	13.64	179.75	182.18	180.48	182.21	0.001430	0.80	17.01	7.00	0.16
BOCSN_01	391.48	Max WS	200Y-1.5H_A2SA	22.41	179.75	183.00	180.76	183.04	0.001747	0.91	28.03	33.97	0.16
BOCSN_01	386.82	Max WS	30Y-1.5H_A2SA	13.62	179.75	182.05	181.19	182.17	0.007137	1.51	8.99	7.56	0.40
BOCSN_01	386.82	Max WS	200Y-1.5H_A2SA	22.41	179.75	182.93	181.61	183.03	0.003876	1.41	18.46	40.19	0.31
BOCSN_01	353.91	Max WS	30Y-1.5H_A2SA	13.60	179.59	182.00	180.54	182.02	0.000851	0.63	25.69	41.43	0.16
BOCSN_01	353.91	Max WS	200Y-1.5H_A2SA	22.40	179.59	182.93	180.83	182.94	0.000212	0.43	69.87	99.16	0.09
BOCSN_01	321.90	Max WS	30Y-1.5H_A2SA	13.58	179.51	181.92		181.97	0.002061	0.92	14.74	8.33	0.22
BOCSN_01	321.90	Max WS	200Y-1.5H_A2SA	22.40	179.51	182.88		182.92	0.001241	0.91	28.41	54.16	0.18
BOCSN_01	310.64			Culvert									
BOCSN_01	299.38	Max WS	30Y-1.5H_A2SA	13.52	179.55	181.80	180.28	181.82	0.000742	0.60	22.54	13.50	0.15
BOCSN_01	299.38	Max WS	200Y-1.5H_A2SA	22.39	179.55	182.74	180.54	182.75	0.000402	0.55	52.12	67.58	0.11
BOCSN_01	299.18	Max WS	30Y-1.5H_A2SA	13.53	179.15	181.80	179.91	181.81	0.000530	0.53	25.35	13.51	0.12
BOCSN_01	299.18	Max WS	200Y-1.5H_A2SA	22.39	179.15	182.74	180.20	182.75	0.000335	0.52	54.96	67.64	0.10
BOCSN_01	289.76	Max WS	30Y-1.5H_A2SA	13.50	179.34	181.77	180.39	181.80	0.001050	0.73	18.51	62.36	0.18
BOCSN_01	289.76	Max WS	200Y-1.5H_A2SA	22.38	179.34	182.73	180.69	182.75	0.000551	0.71	43.31	82.54	0.14
BOCSN_01	263.68	Max WS	30Y-1.5H_A2SA	13.46	179.18	181.70	180.55	181.75	0.002172	1.03	13.06	86.26	0.25
BOCSN_01	263.68	Max WS	200Y-1.5H_A2SA	22.39	179.18	182.72	180.92	182.73	0.000273	0.50	79.49	96.08	0.10
BOCSN_01	241.12	Max WS	30Y-1.5H_A2SA	13.42	178.99	181.66	180.42	181.71	0.001997	0.97	13.77	86.34	0.23
BOCSN_01	241.12	Max WS	200Y-1.5H_A2SA	22.38	178.99	182.72	180.78	182.72	0.000281	0.46	79.68	93.15	0.09
BOCSN_01	186.14	Max WS	30Y-1.5H_A2SA	13.38	178.68	181.57	180.18	181.62	0.001492	0.96	13.97	93.71	0.21
BOCSN_01	186.14	Max WS	200Y-1.5H_A2SA	22.37	178.68	182.70	180.54	182.71	0.000216	0.49	83.96	96.20	0.09
BOCSN_01	99.08	Max WS	30Y-1.5H_A2SA	13.36	178.38	181.48	179.80	181.51	0.000887	0.77	17.35	91.38	0.17
BOCSN_01	99.08	Max WS	200Y-1.5H_A2SA	22.38	178.38	182.69	180.18	182.70	0.000063	0.28	135.63	107.19	0.05
BOCSN_01	62.35	Max WS	30Y-1.5H_A2SA	13.36	178.18	181.46		181.48	0.000488	0.65	20.69	79.72	0.13
BOCSN_01	62.35	Max WS	200Y-1.5H_A2SA	16.45	178.18	182.69		182.69	0.000073	0.32	91.75	97.02	0.05
BOCSN_01	60.57			Culvert									
BOCSN_01	58.78	Max WS	30Y-1.5H_A2SA	2.35	178.23	181.42	178.73	181.42	0.000020	0.11	20.54	68.54	0.02
BOCSN_01	58.78	Max WS	200Y-1.5H_A2SA	16.64	178.23	182.68	179.58	182.68	0.000102	0.32	83.66	85.85	0.05
BOCSN_01	33.32	Max WS	30Y-1.5H_A2SA	0.10	176.86	181.42	177.05	181.42	0.000000	0.00	57.03	101.71	0.00
BOCSN_01	33.32	Max WS	200Y-1.5H_A2SA	0.10	176.86	182.68	177.05	182.68	0.000000	0.00	140.06	102.90	0.00

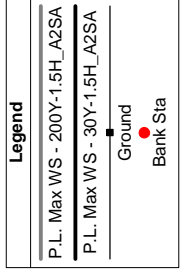
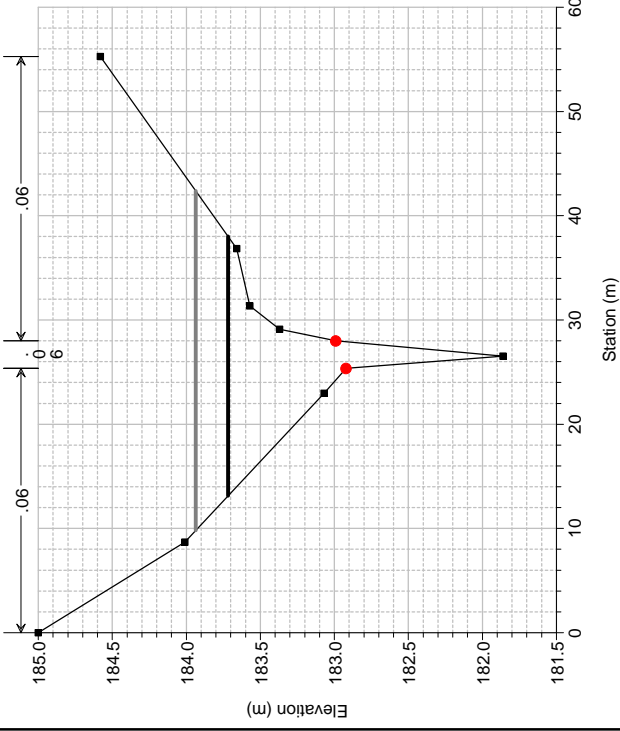
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 River = BOCSN Reach = BOCSN_01 RS = 720.31 S1-1/10



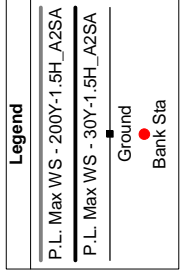
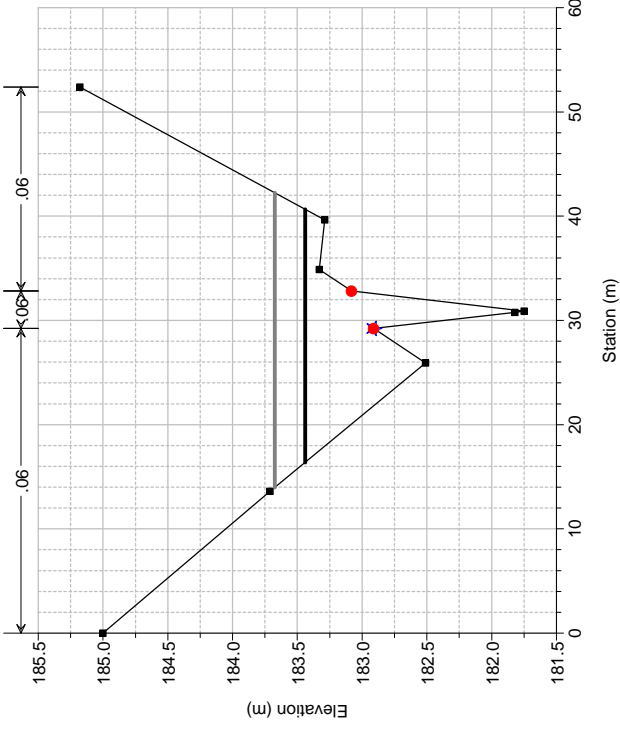
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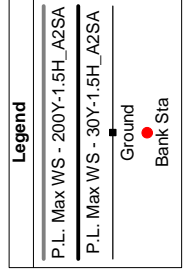
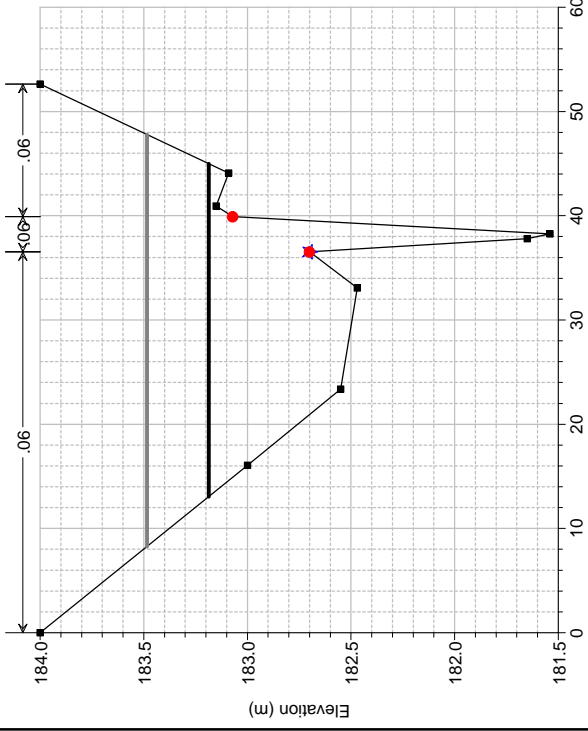
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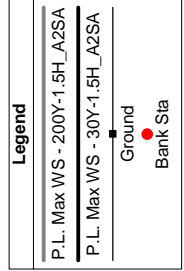
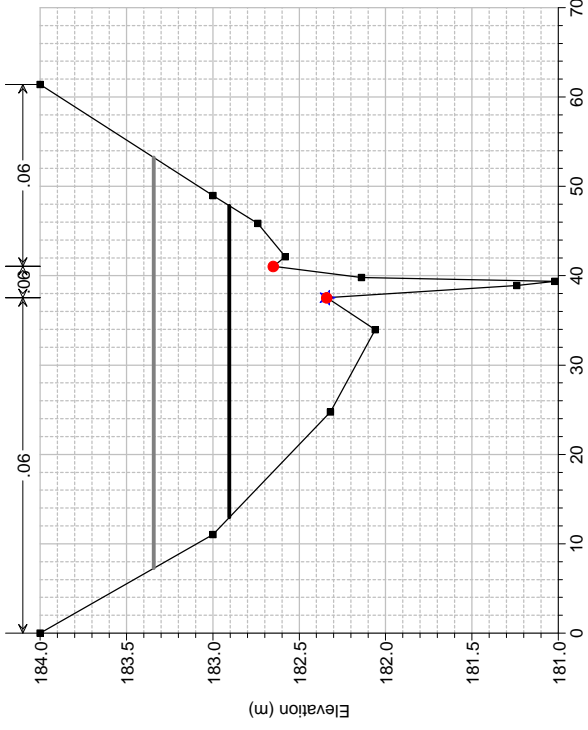
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 River = BOCSN Reach = BOCSN_01 RS = 618.82 S4-4/10



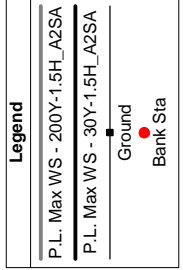
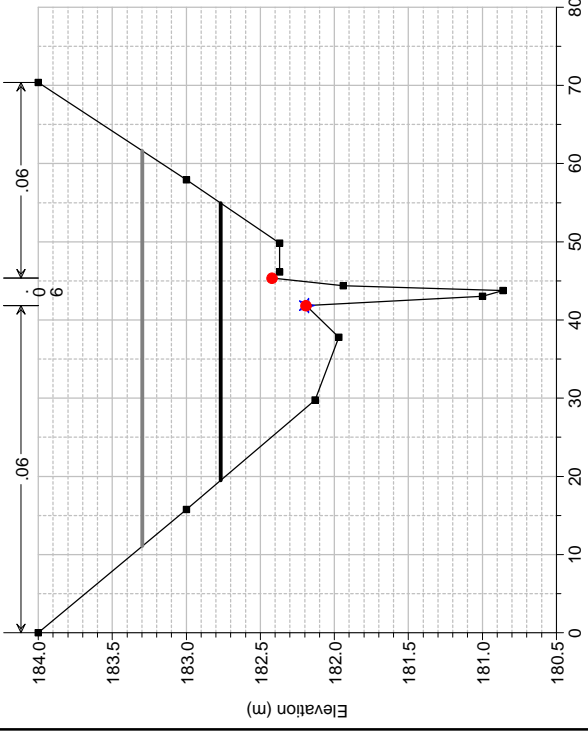
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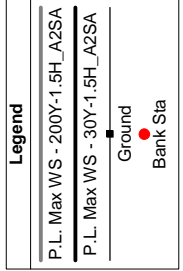
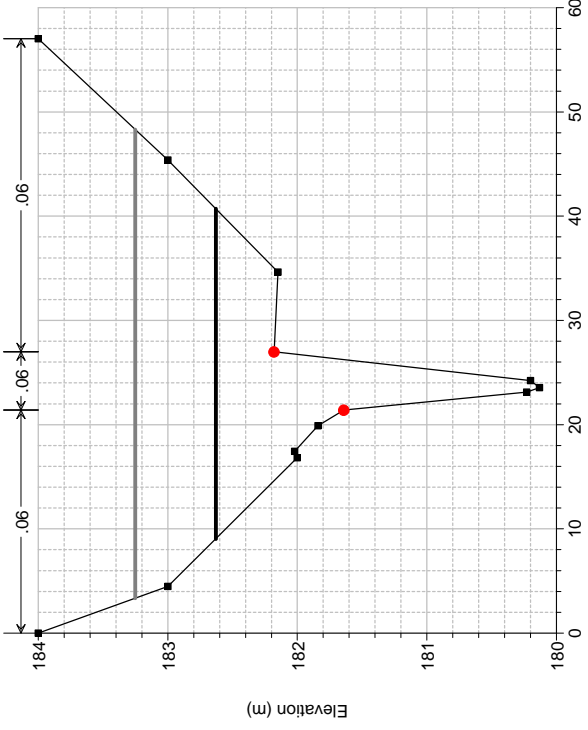
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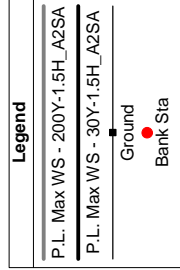
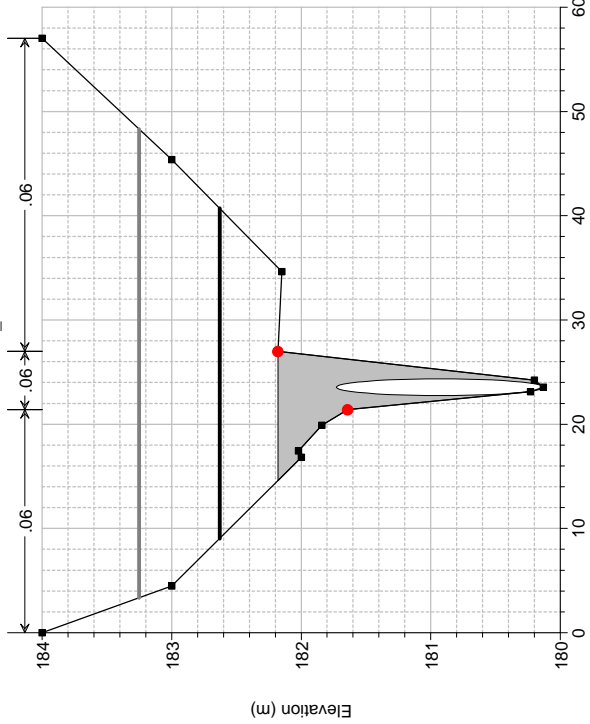
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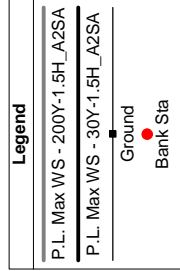
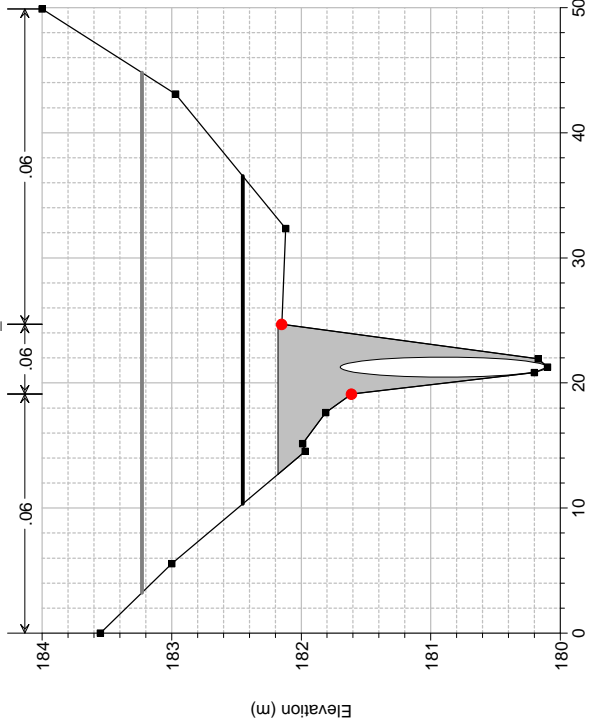
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 River = BOCSN Reach = BOCSN_01 RS = 465.57 S8-8/10



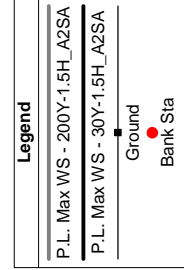
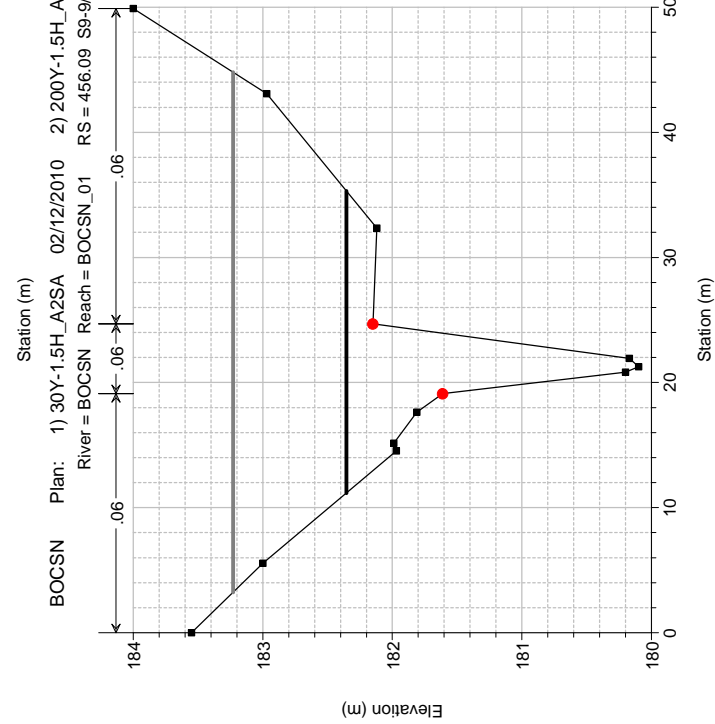
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 River = BOCSN Reach = BOCSN_01 RS = 460.83 Culv Guado a monte S.C. di Sant'Ersilia



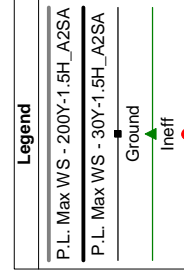
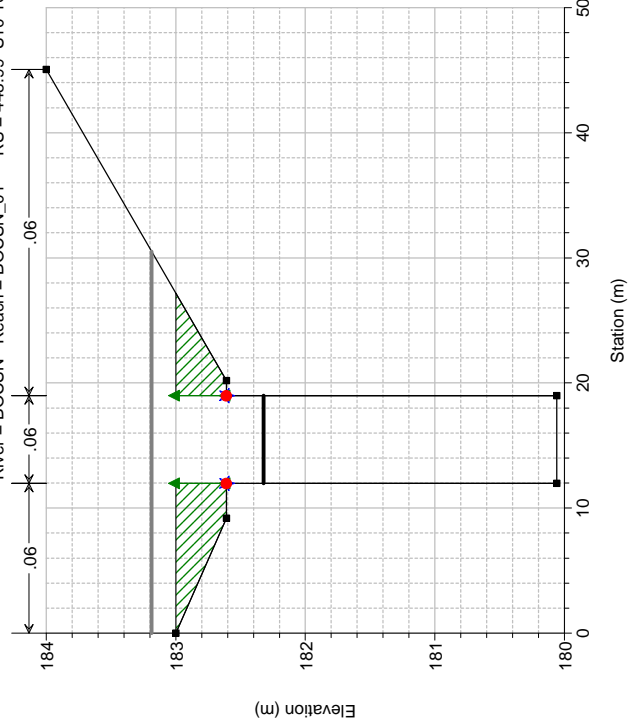
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 460.83 Culv Guado a monte S.C. di Sant'Ersilia



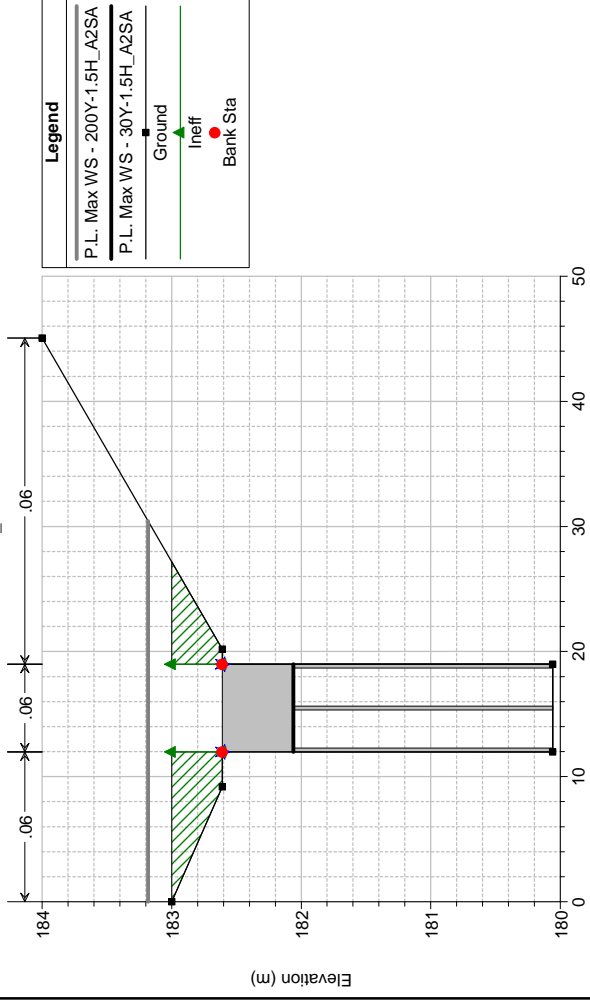
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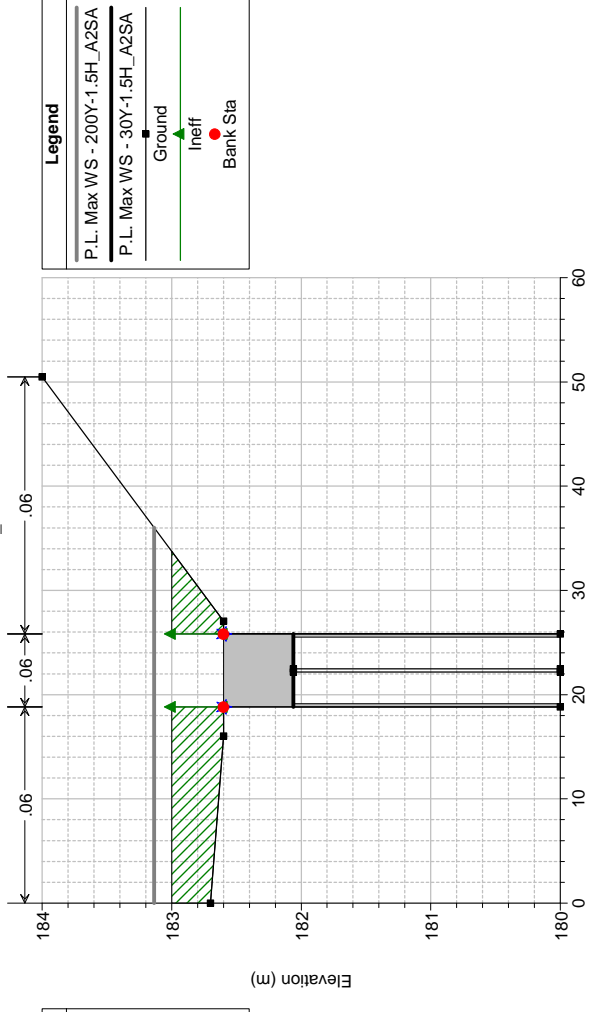
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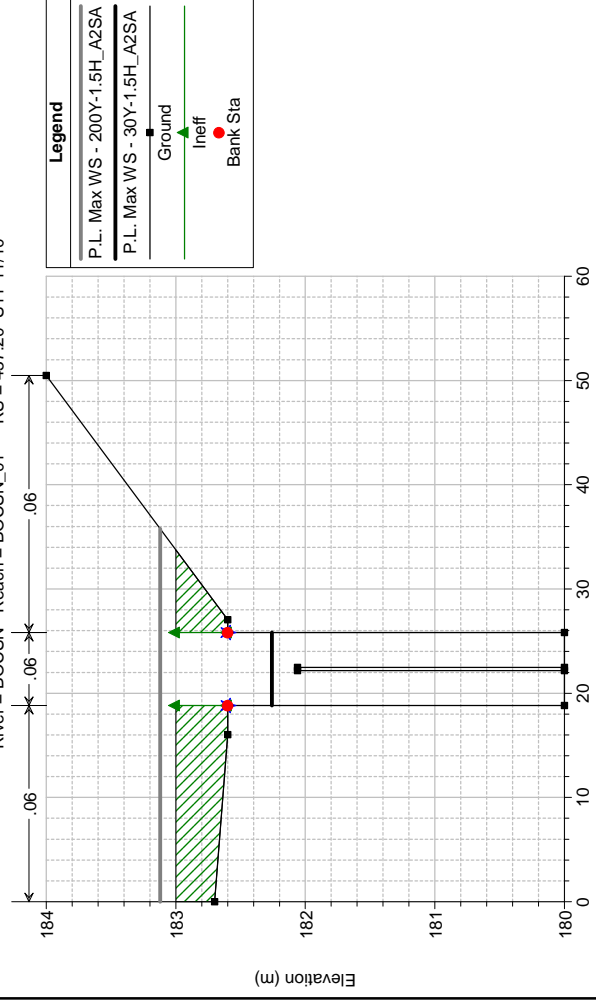
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 River = BOCSN Reach = BOCSN_01 RS = 443.10 BR S.C. di Sant'Ersilia



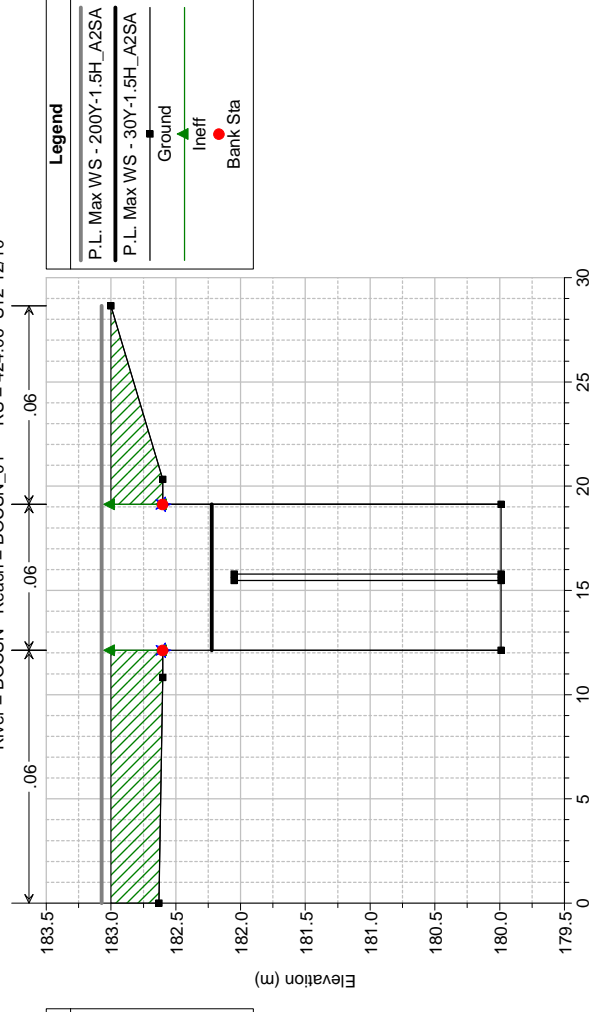
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 River = BOCSN Reach = BOCSN_01 RS = 443.10 BR S.C. di Sant'Ersilia



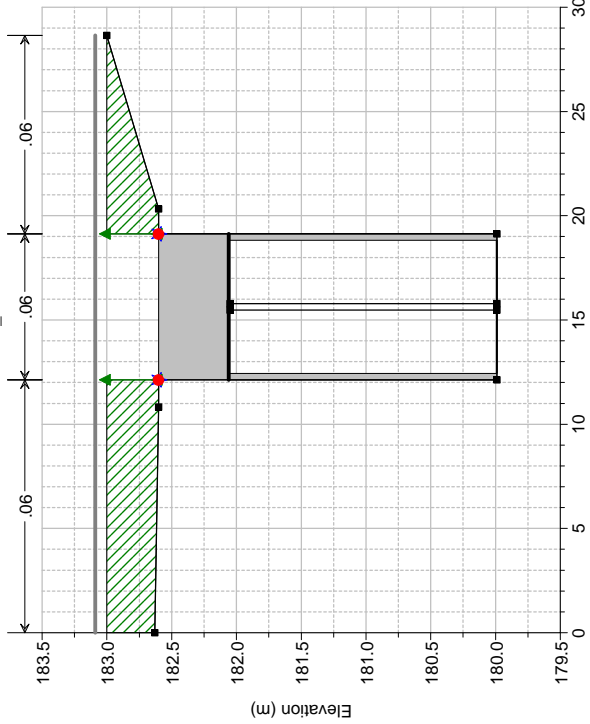
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 437.20 S11-11/10



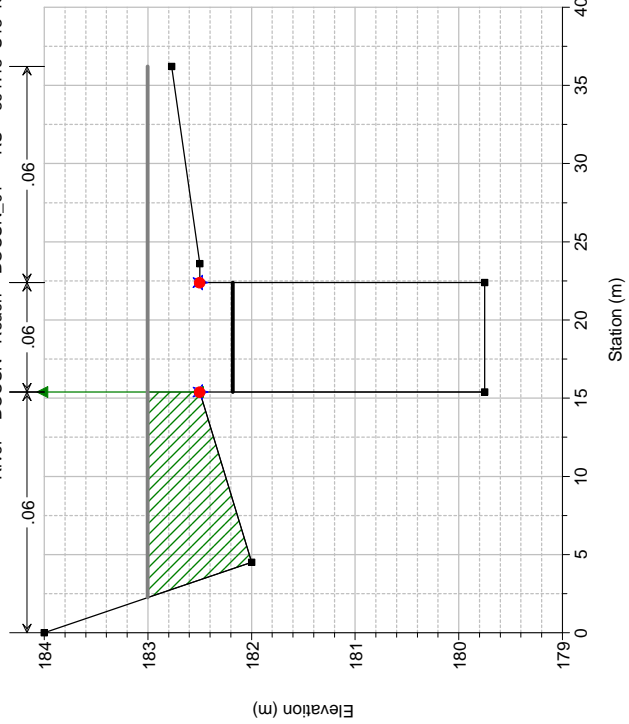
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 424.06 S12-12/10



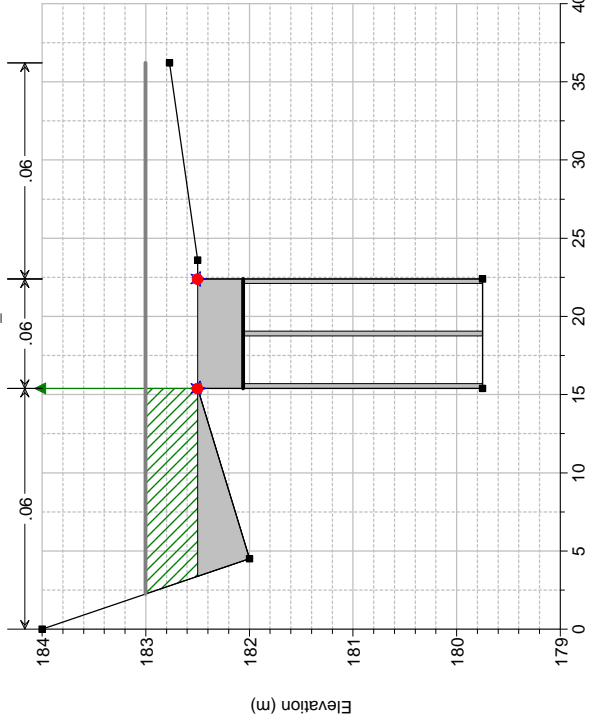
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 406.45 BR Svincolo S.S. Siena-Bettolle Monte



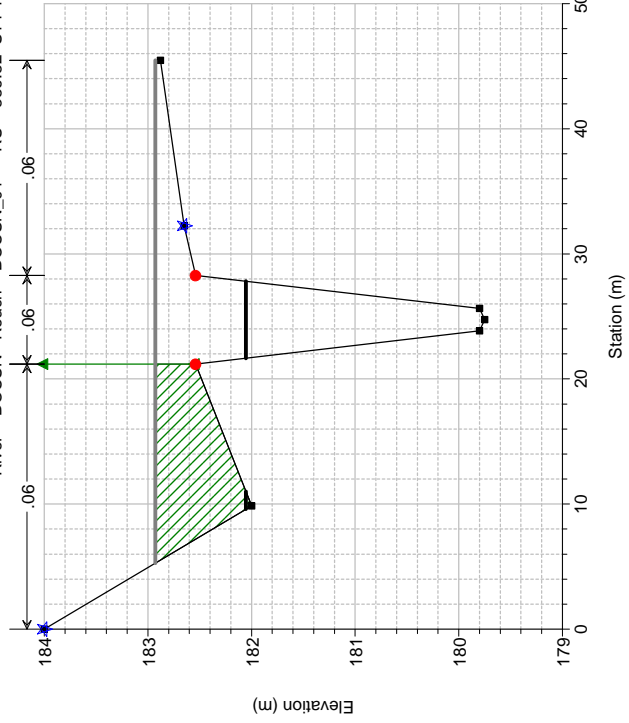
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 River = BOCSN Reach = BOCSN_01 RS = 391.48 S13-13/10



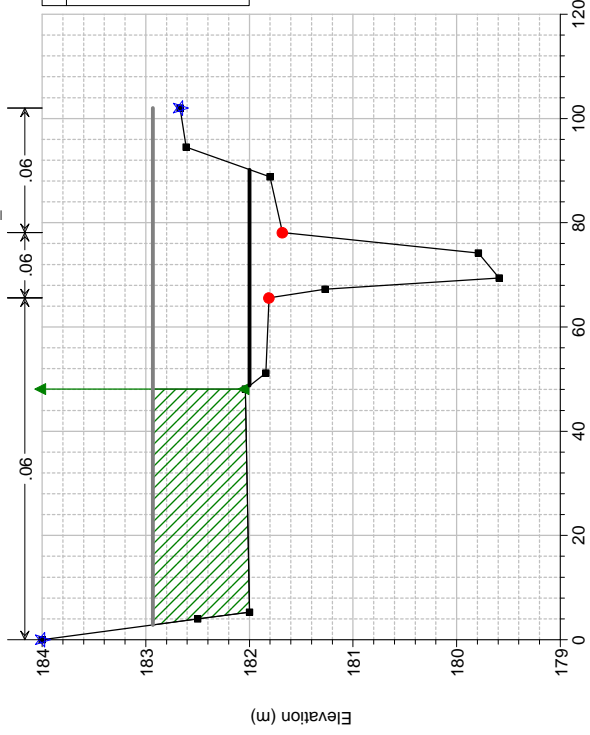
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 406.45 BR Svincolo S.S. Siena-Bettolle Monte



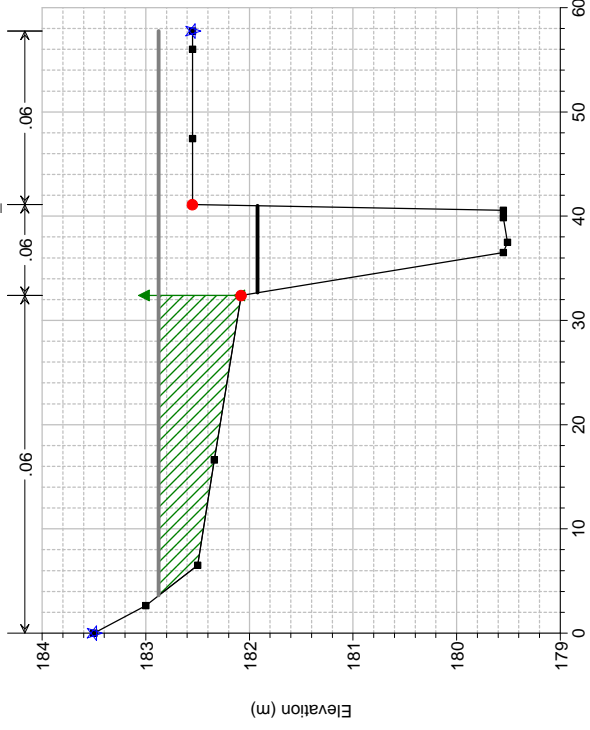
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 386.82 S14-14/10



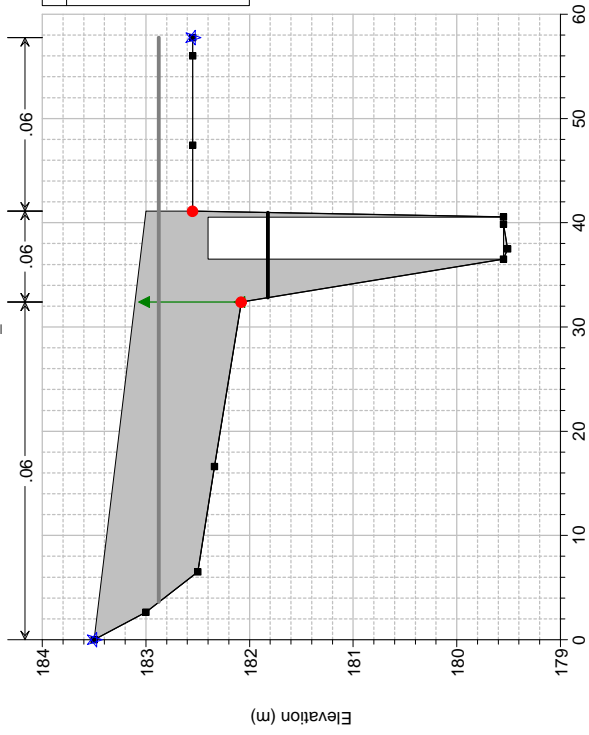
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 353.91 S15-15/10



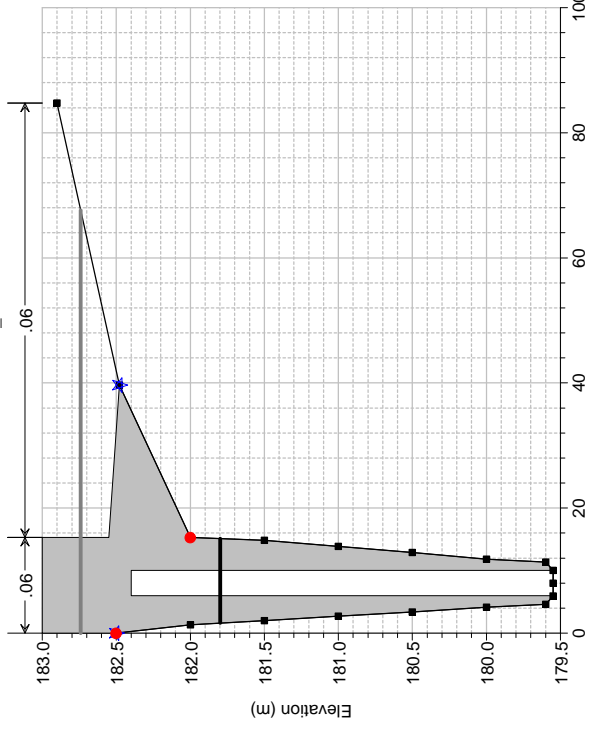
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 321.90 S16-16/10



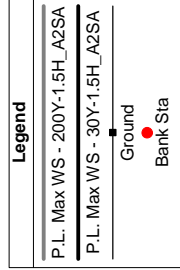
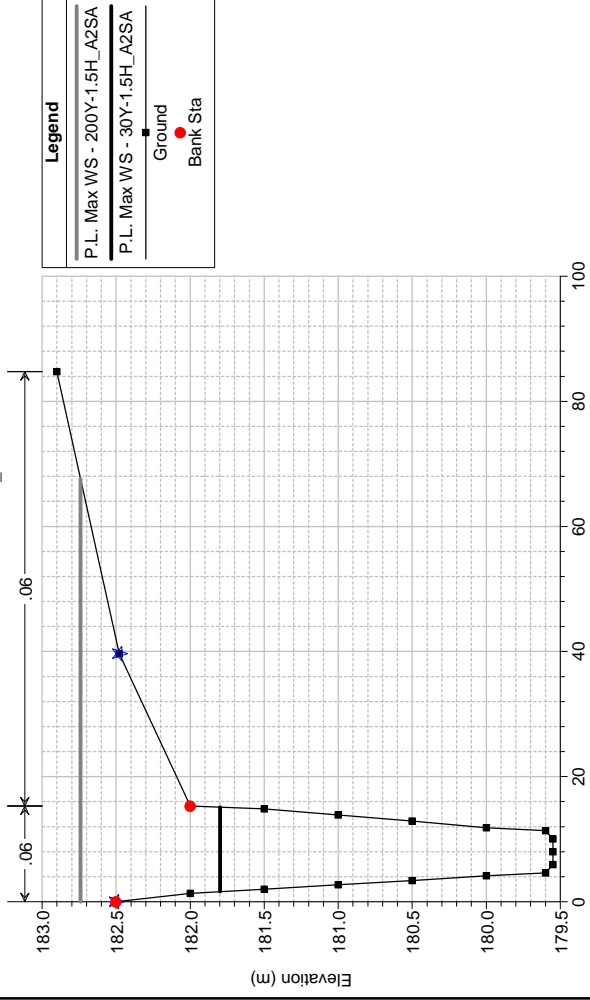
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 310.64 Cuv Svincolo S.S. Siena-Bettolle Valle



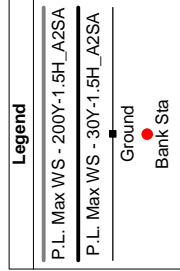
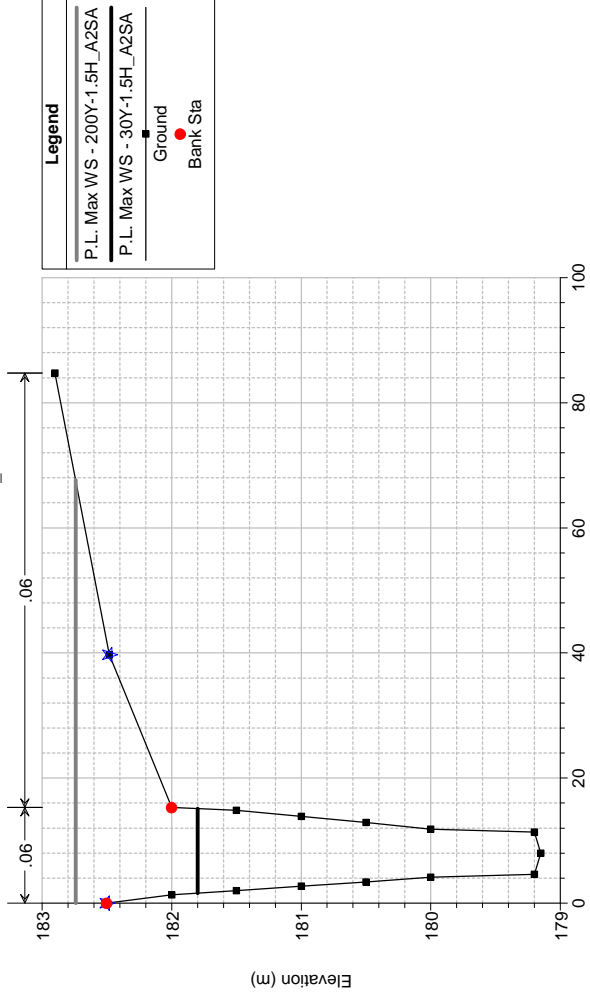
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 310.64 Cuv Svincolo S.S. Siena-Bettolle Valle



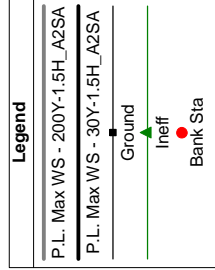
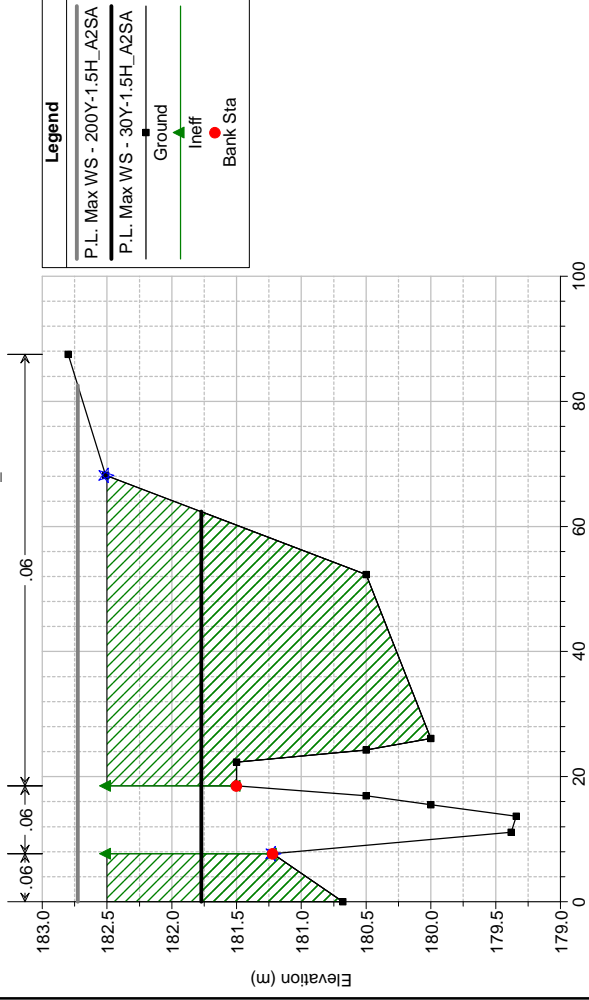
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 299.38 S17-17/10



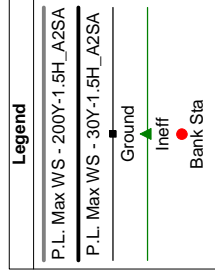
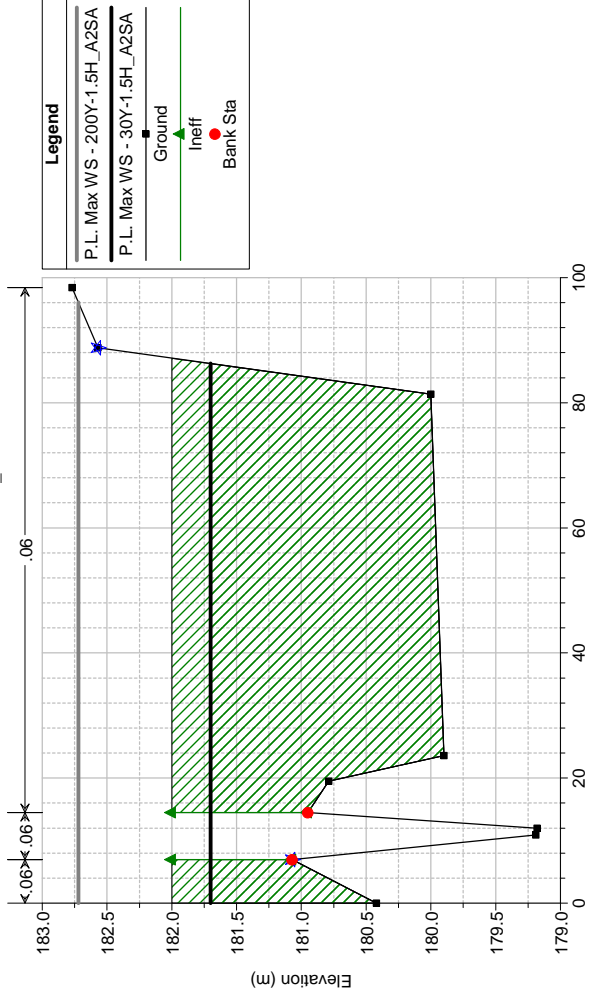
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 299.18 S18-18/10



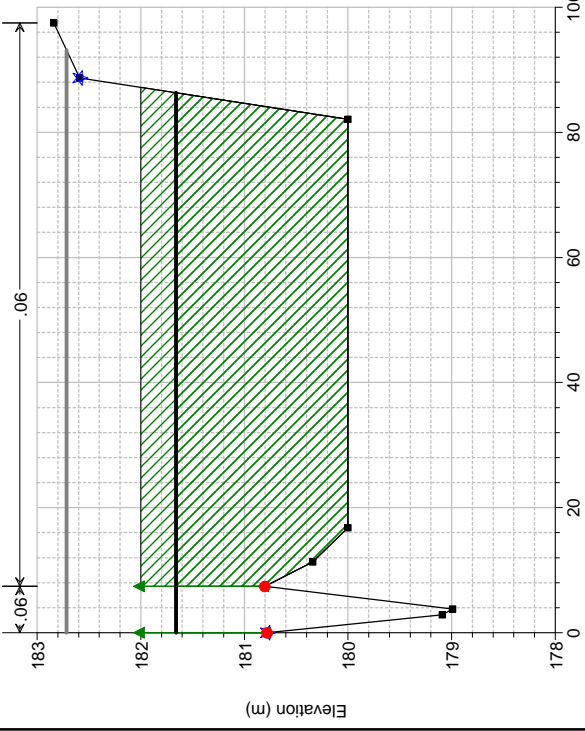
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 289.76 S19-19/10



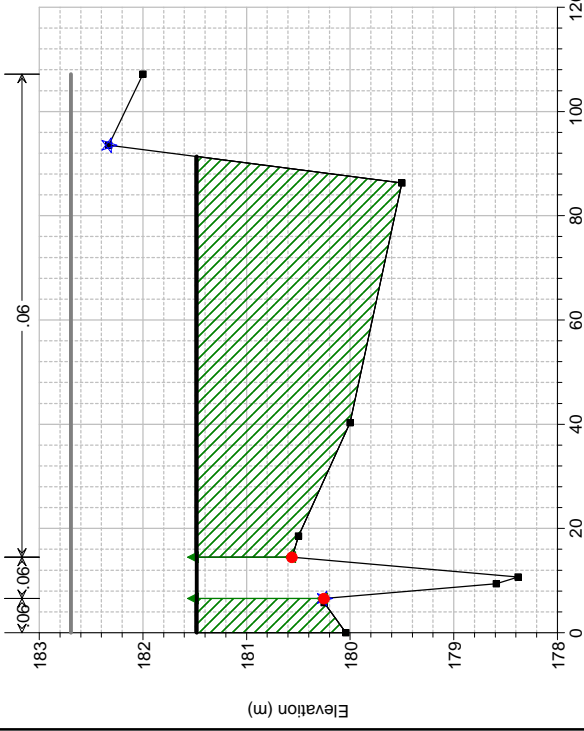
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 263.68 S20-20/10



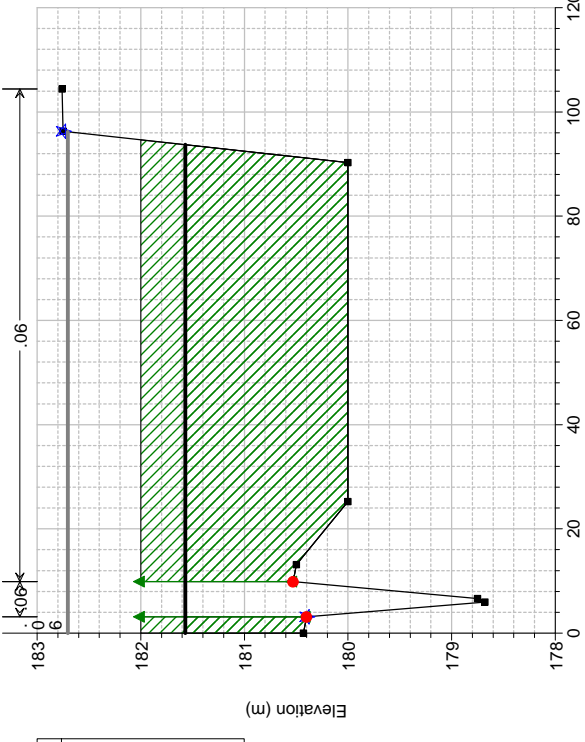
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 241.12 S21-21/10



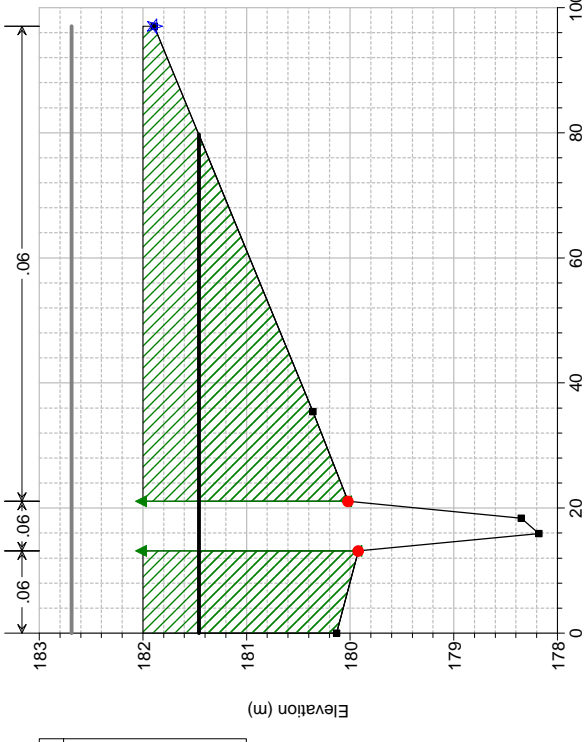
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 99.08 S23-23/10



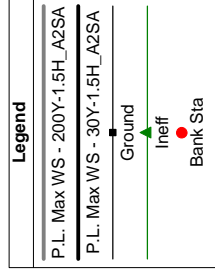
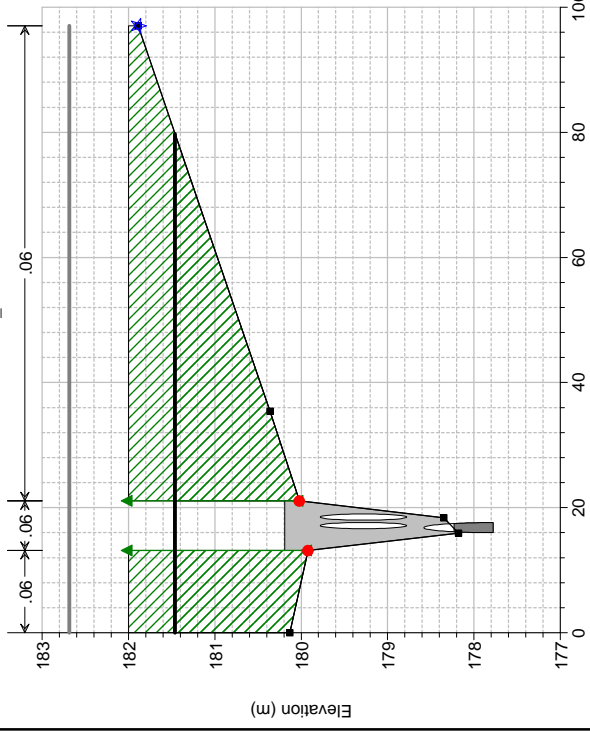
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 186.14 S22-22/10



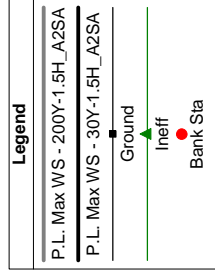
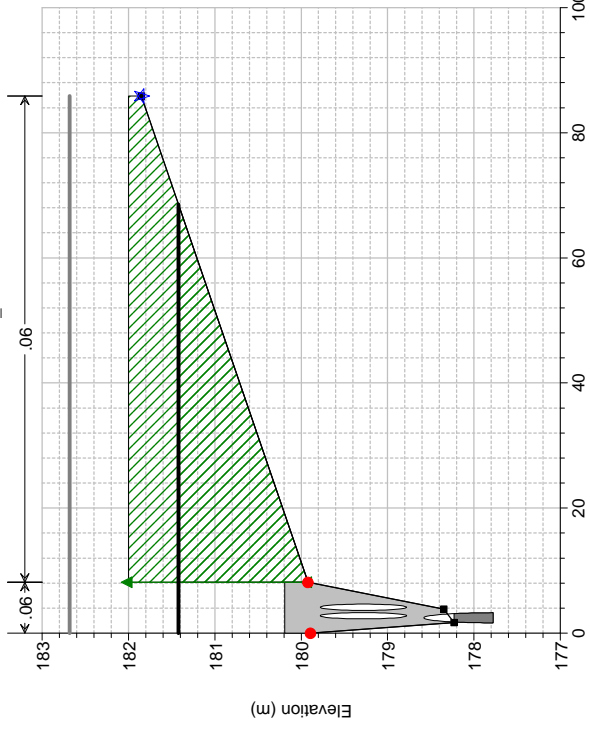
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 62.35 S24-24/10



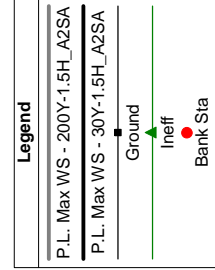
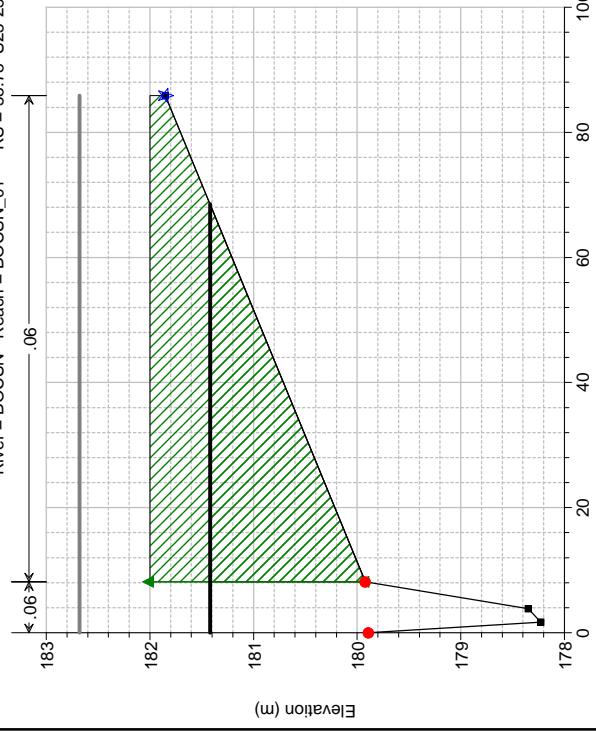
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 60.57 Culv. Guado in area golenale T. Arbia



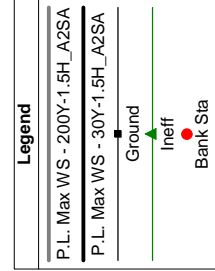
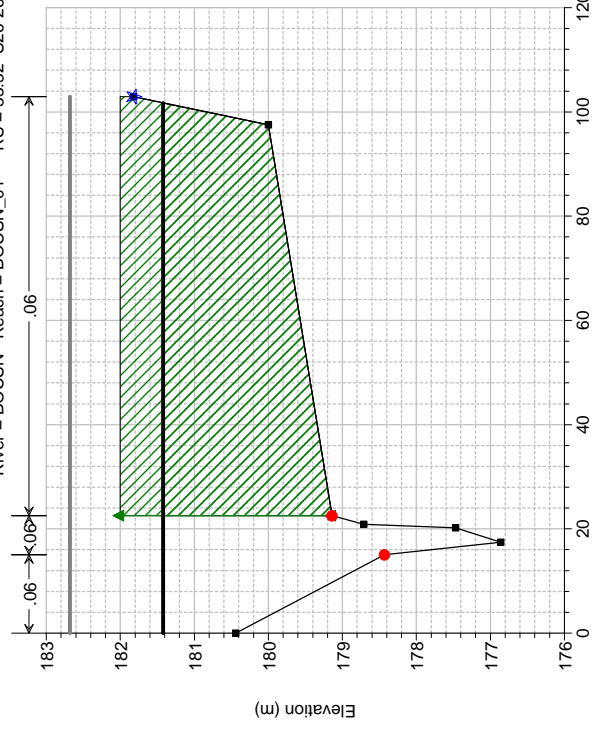
BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 60.57 Culv. Guado in area golenale T. Arbia



BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 58.78 S25-25/10



BOCSN Plan: 1) 30Y-1.5H_A2SA 02/12/2010 2) 200Y-1.5H_A2SA 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 33.32 S26-26/10



RISULTATI GRAFICO-NUMERICI DELLA MODELLAZIONE IDRAULICA DEL

B.RO DEL CASINO NELLO STATO DI PROGETTO

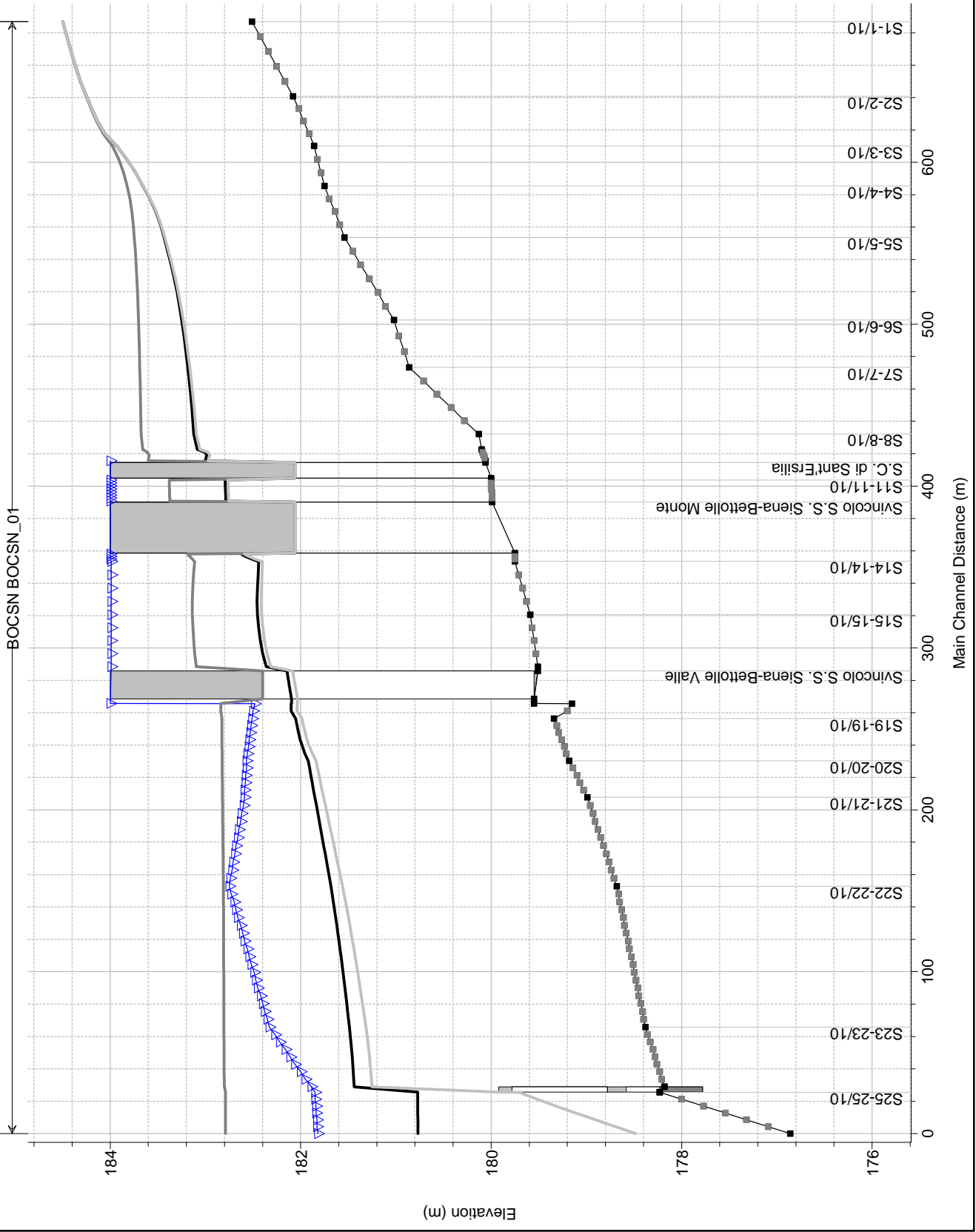
MOTO VARIO

Tratto	Sezioni (RS)	Tr	cond. valle	Codifica
Unico	720.31 ÷ 33.32	200 anni	T. Arbia Tr=200 anni	A2
Unico	720.31 ÷ 33.32	200 anni	T. Arbia Tr=30 anni	A1
Unico	720.31 ÷ 33.32	200 anni	moto uniforme	U

LEGENDA:

Codice	Significato	U.M.
EG	Carico totale	m s.l.m.
P.L.	Pelo libero	m s.l.m.
Crit.	Altezza critica della corrente	m s.l.m.
Vel.	Velocità della corrente	m/s

BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010



Legend

- P.L. Max WS - 200Y-1.5H_A2SP
- P.L. Max WS - 200Y-1.5H_A1SP
- P.L. Max WS - 200Y-1.5H_USP
- Ground
- Argine DX

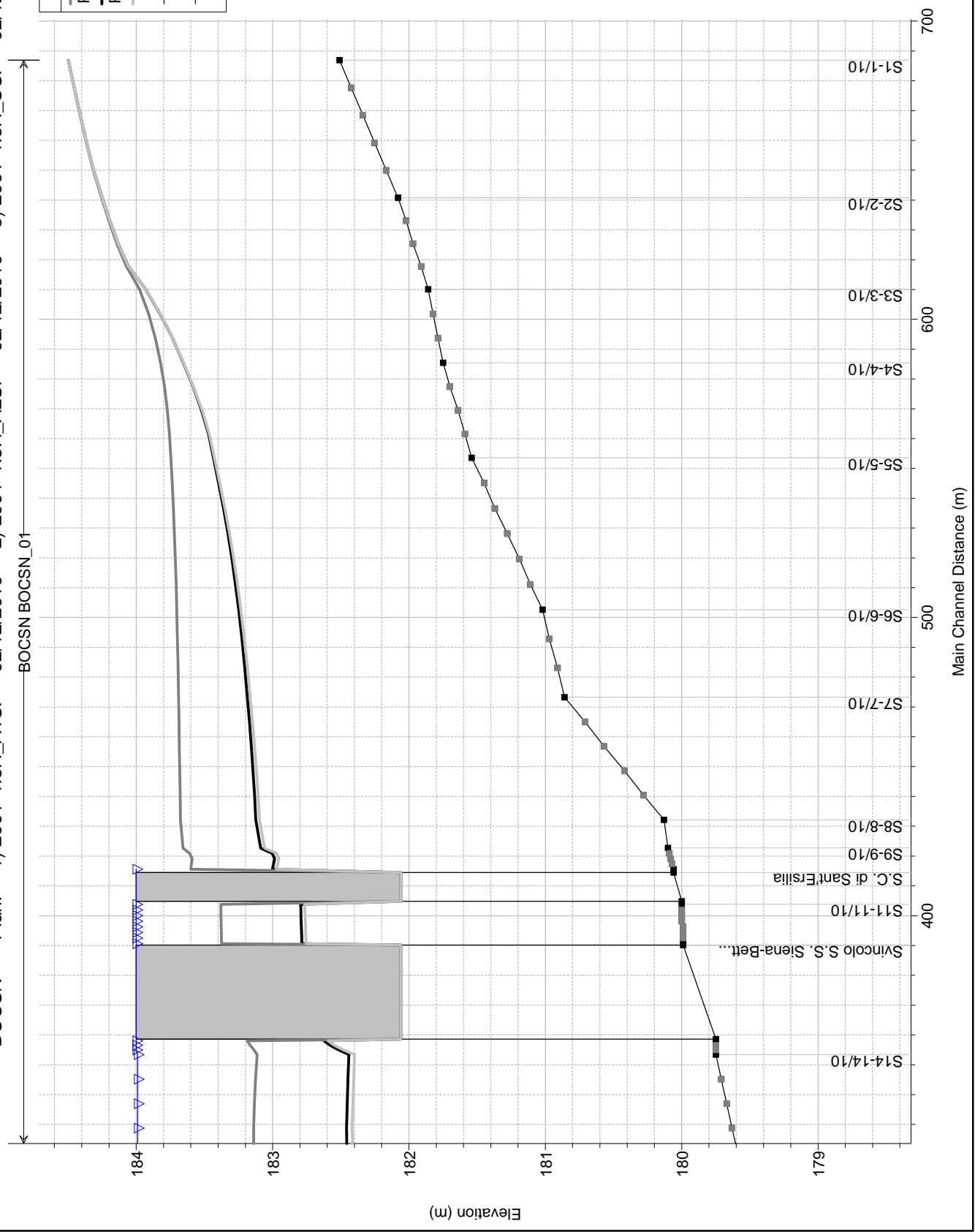
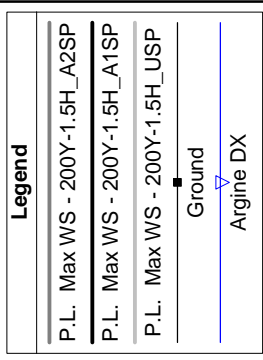
BOCSN BOCSN_01

Elevation (m)

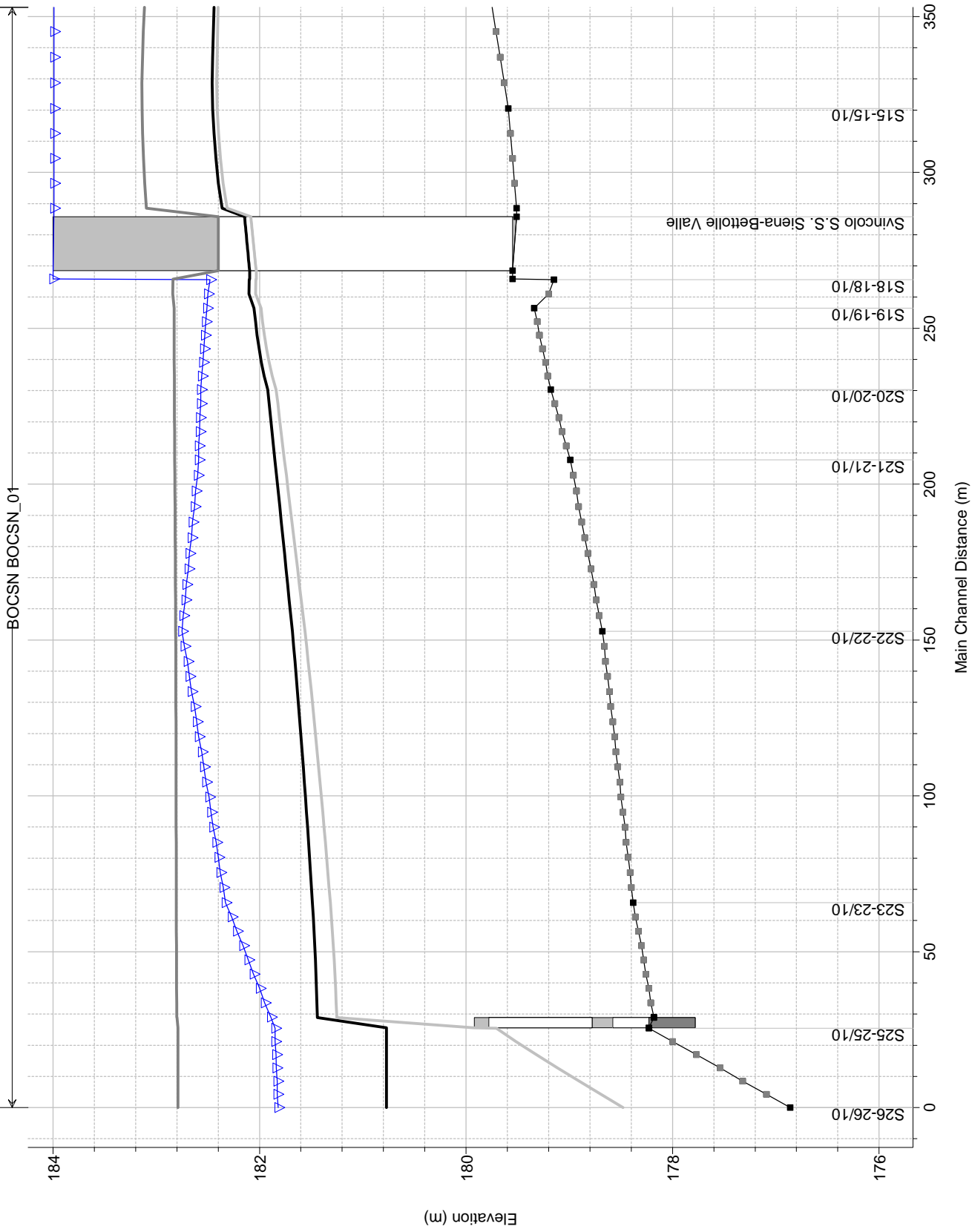
Main Channel Distance (m)

BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010

BOCSN BOCSN_01



BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010



Legend

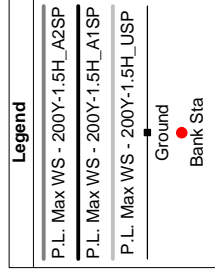
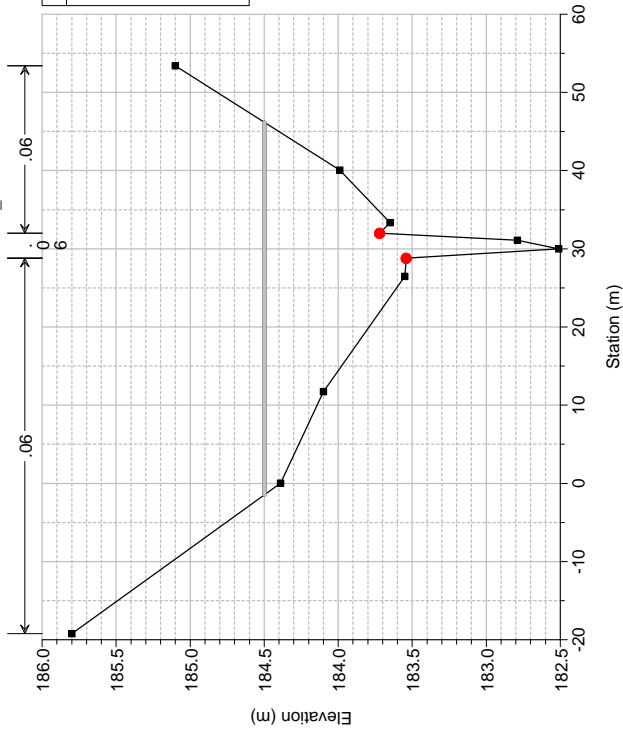
- P.L. Max WS - 200Y-1.5H_A2SP
- P.L. Max WS - 200Y-1.5H_A1SP
- P.L. Max WS - 200Y-1.5H_USP
- Ground
- Argine DX

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
BOCSN_01	720.31	Max WS	200Y-1.5H_A1SP	22.51	182.51	184.50	184.18	184.54	0.004660	1.30	27.30	47.65	0.34
BOCSN_01	720.31	Max WS	200Y-1.5H_A2SP	22.51	182.51	184.50	184.18	184.54	0.004633	1.30	27.36	47.68	0.33
BOCSN_01	720.31	Max WS	200Y-1.5H_USP	22.51	182.51	184.50	184.18	184.54	0.004660	1.30	27.30	47.65	0.34
BOCSN_01	674.15	Max WS	200Y-1.5H_A1SP	22.51	182.08	184.25	183.94	184.32	0.006217	1.53	22.29	36.39	0.38
BOCSN_01	674.15	Max WS	200Y-1.5H_A2SP	22.49	182.08	184.25	183.94	184.32	0.006088	1.52	22.47	36.54	0.37
BOCSN_01	674.15	Max WS	200Y-1.5H_USP	22.51	182.08	184.25	183.94	184.32	0.006218	1.53	22.29	36.39	0.38
BOCSN_01	643.48	Max WS	200Y-1.5H_A1SP	22.50	181.86	183.93	183.83	184.07	0.013909	2.18	16.26	32.43	0.56
BOCSN_01	643.48	Max WS	200Y-1.5H_A2SP	22.32	181.86	183.98	183.83	184.09	0.011109	1.99	17.75	34.01	0.51
BOCSN_01	643.48	Max WS	200Y-1.5H_USP	22.50	181.86	183.93	183.83	184.07	0.013930	2.19	16.25	32.42	0.57
BOCSN_01	618.82	Max WS	200Y-1.5H_A1SP	22.45	181.75	183.66	183.41	183.75	0.009781	1.71	17.51	27.96	0.48
BOCSN_01	618.82	Max WS	200Y-1.5H_A2SP	22.01	181.75	183.82	183.40	183.88	0.004933	1.31	22.37	30.80	0.35
BOCSN_01	618.82	Max WS	200Y-1.5H_USP	22.47	181.75	183.65	183.41	183.75	0.009869	1.71	17.46	27.93	0.48
BOCSN_01	587.00	Max WS	200Y-1.5H_A1SP	22.24	181.54	183.43	183.03	183.48	0.004955	1.17	24.47	38.25	0.33
BOCSN_01	587.00	Max WS	200Y-1.5H_A2SP	21.88	181.54	183.75	183.02	183.77	0.001518	0.75	37.67	46.20	0.19
BOCSN_01	587.00	Max WS	200Y-1.5H_USP	22.26	181.54	183.43	183.03	183.48	0.005105	1.18	24.22	38.08	0.33
BOCSN_01	536.05	Max WS	200Y-1.5H_A1SP	21.99	181.02	183.25	182.71	183.28	0.002729	0.86	31.16	43.80	0.24
BOCSN_01	536.05	Max WS	200Y-1.5H_A2SP	21.81	181.02	183.70	182.71	183.71	0.000601	0.49	53.44	54.44	0.12
BOCSN_01	536.05	Max WS	200Y-1.5H_USP	22.00	181.02	183.23	182.71	183.26	0.002919	0.89	30.43	43.41	0.24
BOCSN_01	506.65	Max WS	200Y-1.5H_A1SP	21.91	180.86	183.19	182.57	183.21	0.001846	0.80	36.13	47.41	0.20
BOCSN_01	506.65	Max WS	200Y-1.5H_A2SP	21.81	180.86	183.69	182.56	183.70	0.000400	0.45	63.64	61.63	0.10
BOCSN_01	506.65	Max WS	200Y-1.5H_USP	21.96	180.86	183.16	182.56	183.19	0.002002	0.83	35.12	46.80	0.21
BOCSN_01	465.57	Max WS	200Y-1.5H_A1SP	21.91	180.13	183.12	182.26	183.14	0.001082	0.82	39.11	42.89	0.18
BOCSN_01	465.57	Max WS	200Y-1.5H_A2SP	21.80	180.13	183.68	182.26	183.68	0.000272	0.48	65.29	51.79	0.09
BOCSN_01	465.57	Max WS	200Y-1.5H_USP	21.92	180.13	183.10	182.27	183.12	0.001173	0.85	37.94	42.45	0.18
BOCSN_01	456.09	Max WS	200Y-1.5H_A1SP	21.90	180.10	183.09	182.22	183.13	0.001610	1.00	26.00	39.20	0.21
BOCSN_01	456.09	Max WS	200Y-1.5H_A2SP	21.80	180.10	183.66	182.22	183.68	0.000541	0.68	36.53	47.64	0.13
BOCSN_01	456.09	Max WS	200Y-1.5H_USP	21.92	180.10	183.06	182.22	183.10	0.001720	1.03	25.47	38.72	0.22
BOCSN_01	448.99	Max WS	200Y-1.5H_A1SP	21.90	180.06	183.00	181.06	183.06	0.000378	1.06	20.60	7.00	0.20
BOCSN_01	448.99	Max WS	200Y-1.5H_A2SP	21.80	180.06	183.60	181.05	183.64	0.000227	0.88	24.79	7.00	0.15
BOCSN_01	448.99	Max WS	200Y-1.5H_USP	21.91	180.06	182.97	181.06	183.03	0.000389	1.07	20.38	7.00	0.20
BOCSN_01	443.10			Bridge									
BOCSN_01	437.20	Max WS	200Y-1.5H_A1SP	21.87	180.00	182.79	181.03	182.86	0.000705	1.15	18.95	7.00	0.22
BOCSN_01	437.20	Max WS	200Y-1.5H_A2SP	21.80	180.00	183.38	181.03	183.43	0.000399	0.95	23.04	7.00	0.17
BOCSN_01	437.20	Max WS	200Y-1.5H_USP	21.89	180.00	182.76	181.03	182.83	0.000729	1.17	18.73	7.00	0.23
BOCSN_01	424.06	Max WS	200Y-1.5H_A1SP	21.87	179.99	182.78	181.02	182.85	0.000704	1.15	18.95	7.00	0.22
BOCSN_01	424.06	Max WS	200Y-1.5H_A2SP	21.80	179.99	183.38	181.02	183.42	0.000397	0.94	23.08	7.00	0.17
BOCSN_01	424.06	Max WS	200Y-1.5H_USP	21.89	179.99	182.75	181.02	182.82	0.000729	1.17	18.73	7.00	0.23
BOCSN_01	406.45			Bridge									
BOCSN_01	391.48	Max WS	200Y-1.5H_A1SP	21.84	179.75	182.62	180.75	182.68	0.000401	1.09	20.11	7.00	0.20
BOCSN_01	391.48	Max WS	200Y-1.5H_A2SP	21.80	179.75	183.19	180.75	183.23	0.000246	0.91	24.06	7.00	0.16
BOCSN_01	391.48	Max WS	200Y-1.5H_USP	21.85	179.75	182.59	180.75	182.66	0.000413	1.10	19.91	7.00	0.21
BOCSN_01	386.82	Max WS	200Y-1.5H_A1SP	21.74	179.75	182.44	181.58	182.62	0.009420	1.89	11.52	6.90	0.47
BOCSN_01	386.82	Max WS	200Y-1.5H_A2SP	21.80	179.75	183.11	181.59	183.21	0.003111	1.34	16.30	7.12	0.28
BOCSN_01	386.82	Max WS	200Y-1.5H_USP	21.76	179.75	182.40	181.59	182.59	0.010075	1.94	11.24	6.82	0.48
BOCSN_01	353.91	Max WS	200Y-1.5H_A1SP	21.75	179.59	182.45	180.81	182.49	0.001086	0.84	25.90	12.61	0.19
BOCSN_01	353.91	Max WS	200Y-1.5H_A2SP	21.80	179.59	183.14	180.82	183.16	0.000420	0.63	34.52	12.61	0.12
BOCSN_01	353.91	Max WS	200Y-1.5H_USP	21.77	179.59	182.41	180.81	182.45	0.001168	0.86	25.36	12.61	0.19
BOCSN_01	321.90	Max WS	200Y-1.5H_A1SP	21.70	179.51	182.36		182.43	0.002717	1.18	18.46	8.64	0.26
BOCSN_01	321.90	Max WS	200Y-1.5H_A2SP	21.80	179.51	183.10		183.14	0.001087	0.88	24.84	8.75	0.17
BOCSN_01	321.90	Max WS	200Y-1.5H_USP	21.72	179.51	182.31		182.39	0.002925	1.21	18.03	8.63	0.27
BOCSN_01	310.64			Culvert									
BOCSN_01	299.38	Max WS	200Y-1.5H_A1SP	21.35	179.55	182.10	180.52	182.13	0.001138	0.80	26.91	19.11	0.19
BOCSN_01	299.38	Max WS	200Y-1.5H_A2SP	21.78	179.55	182.84	180.53	182.85	0.000311	0.50	52.38	39.67	0.10
BOCSN_01	299.38	Max WS	200Y-1.5H_USP	21.30	179.55	182.03	180.52	182.07	0.001254	0.83	25.80	15.69	0.19
BOCSN_01	299.18	Max WS	200Y-1.5H_A1SP	21.35	179.15	182.10	180.17	182.13	0.000857	0.72	29.75	19.26	0.16
BOCSN_01	299.18	Max WS	200Y-1.5H_A2SP	21.78	179.15	182.84	180.18	182.85	0.000262	0.47	62.05	78.07	0.09
BOCSN_01	299.18	Max WS	200Y-1.5H_USP	21.28	179.15	182.04	180.17	182.06	0.000931	0.74	28.63	15.85	0.17
BOCSN_01	289.76	Max WS	200Y-1.5H_A1SP	21.25	179.34	182.05	180.66	182.10	0.001569	0.99	21.54	64.57	0.22
BOCSN_01	289.76	Max WS	200Y-1.5H_A2SP	21.77	179.34	182.83	180.68	182.84	0.000401	0.62	52.09	87.52	0.12
BOCSN_01	289.76	Max WS	200Y-1.5H_USP	21.20	179.34	181.99	180.66	182.04	0.001751	1.02	20.81	64.04	0.23
BOCSN_01	263.68	Max WS	200Y-1.5H_A1SP	20.91	179.18	181.92	180.87	182.02	0.003506	1.42	14.73	86.90	0.32
BOCSN_01	263.68	Max WS	200Y-1.5H_A2SP	21.78	179.18	182.83	180.90	182.83	0.000189	0.42	89.66	98.40	0.08
BOCSN_01	263.68	Max WS	200Y-1.5H_USP	20.80	179.18	181.84	180.86	181.95	0.004003	1.47	14.12	86.67	0.34
BOCSN_01	241.12	Max WS	200Y-1.5H_A1SP	20.72	178.99	181.85	180.72	181.95	0.003516	1.36	15.20	86.83	0.30
BOCSN_01	241.12	Max WS	200Y-1.5H_A2SP	21.76	178.99	182.82	180.76	182.83	0.000197	0.39	89.70	96.86	0.07
BOCSN_01	241.12	Max WS	200Y-1.5H_USP	20.56	178.99	181.76	180.71	181.86	0.003988	1.42	14.52	86.59	0.32
BOCSN_01	186.14	Max WS	200Y-1.5H_A1SP	20.46	178.68	181.68	180.47	181.78	0.002925	1.39	14.72	93.96	0.30
BOCSN_01	186.14	Max WS	200Y-1.5H_A2SP	21.75	178.68	182.81	180.52	182.82	0.000157	0.43	94.93	104.42	0.07
BOCSN_01	186.14	Max WS	200Y-1.5H_USP	20.23	178.68	181.56	180.47	181.67	0.003471	1.46	13.89	93.69	0.32

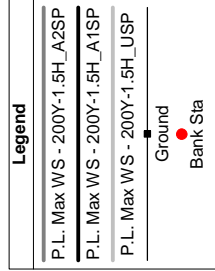
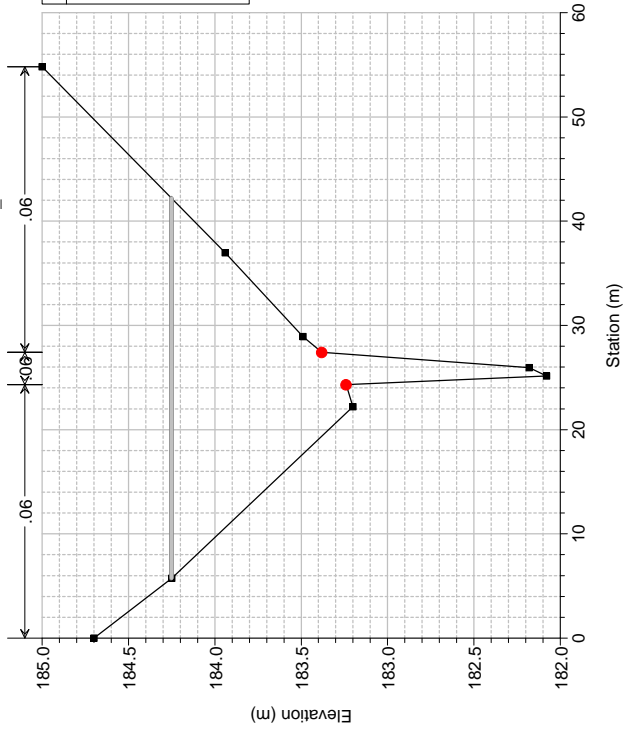
HEC-RAS River: BOCSN Reach: BOCSN_01 Profile: Max WS (Continued)

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
BOCSN_01	99.08	Max WS	200Y-1.5H_A1SP	20.33	178.38	181.49	180.10	181.56	0.002032	1.17	17.41	91.40	0.25
BOCSN_01	99.08	Max WS	200Y-1.5H_A2SP	21.77	178.38	182.81	180.16	182.81	0.000046	0.24	147.62	107.19	0.04
BOCSN_01	99.08	Max WS	200Y-1.5H_USP	20.09	178.38	181.31	180.09	181.39	0.002609	1.25	16.04	90.95	0.28
BOCSN_01	62.35	Max WS	200Y-1.5H_A1SP	20.33	178.18	181.44		181.49	0.001161	0.99	20.53	78.89	0.20
BOCSN_01	62.35	Max WS	200Y-1.5H_A2SP	18.57	178.18	182.80		182.80	0.000071	0.32	102.75	97.02	0.05
BOCSN_01	62.35	Max WS	200Y-1.5H_USP	20.09	178.18	181.25		181.31	0.001455	1.05	19.05	71.36	0.22
BOCSN_01	60.57			Culvert									
BOCSN_01	58.78	Max WS	200Y-1.5H_A1SP	4.16	178.23	180.77	178.90	180.77	0.000152	0.27	15.26	42.37	0.06
BOCSN_01	58.78	Max WS	200Y-1.5H_A2SP	16.83	178.23	182.79	179.59	182.79	0.000080	0.29	93.10	85.85	0.05
BOCSN_01	58.78	Max WS	200Y-1.5H_USP	20.09	178.23	179.71	179.71	180.17	0.042757	3.00	6.68	7.36	1.01
BOCSN_01	33.32	Max WS	200Y-1.5H_A1SP	0.10	176.86	180.77	177.05	180.77	0.000000	0.00	42.39	99.78	0.00
BOCSN_01	33.32	Max WS	200Y-1.5H_A2SP	0.10	176.86	182.79	177.04	182.79	0.000000	0.00	151.39	102.90	0.00
BOCSN_01	33.32	Max WS	200Y-1.5H_USP	20.09	176.86	178.48	178.54	179.06	0.050041	3.39	5.94	6.10	1.06

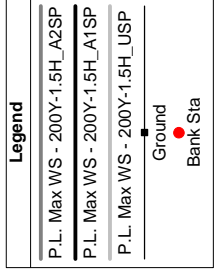
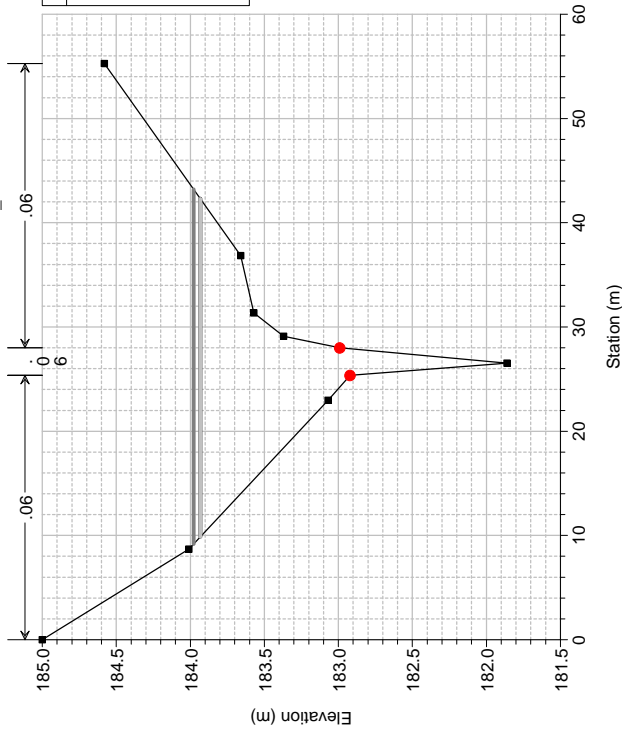
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 720.31 S1-1/10



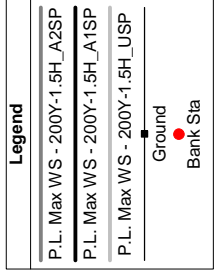
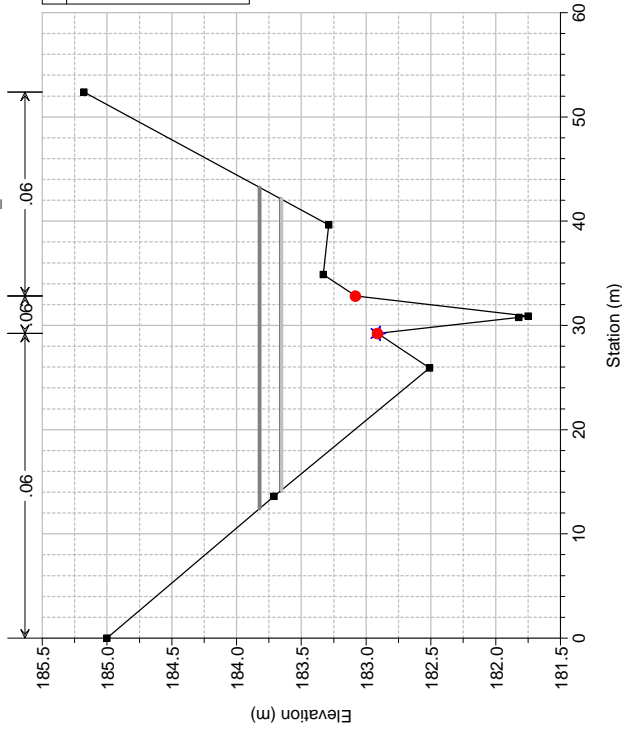
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 674.15 S2-2/10



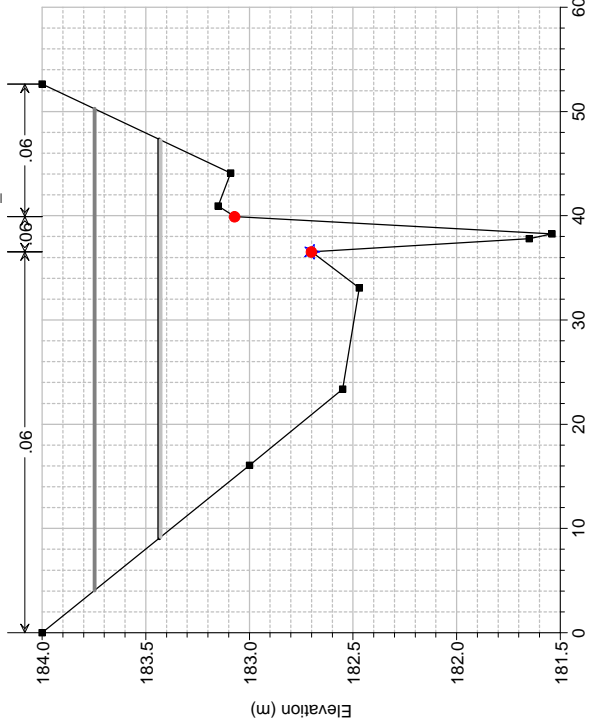
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 643.48 S3-3/10



BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 618.82 S4-4/10



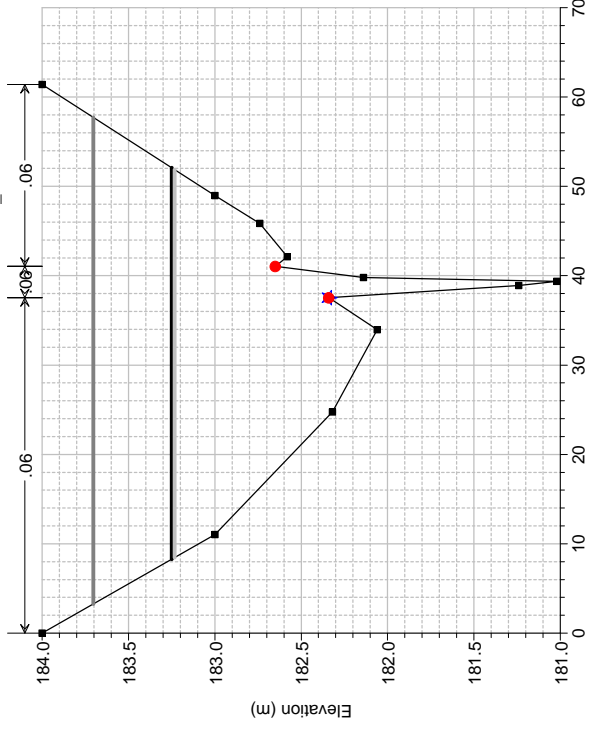
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 587.00 S5-5/10



Legend

- P.L. Max WS - 200Y-1.5H_A2SP
- P.L. Max WS - 200Y-1.5H_A1SP
- P.L. Max WS - 200Y-1.5H_USP
- Ground
- Bank Sta

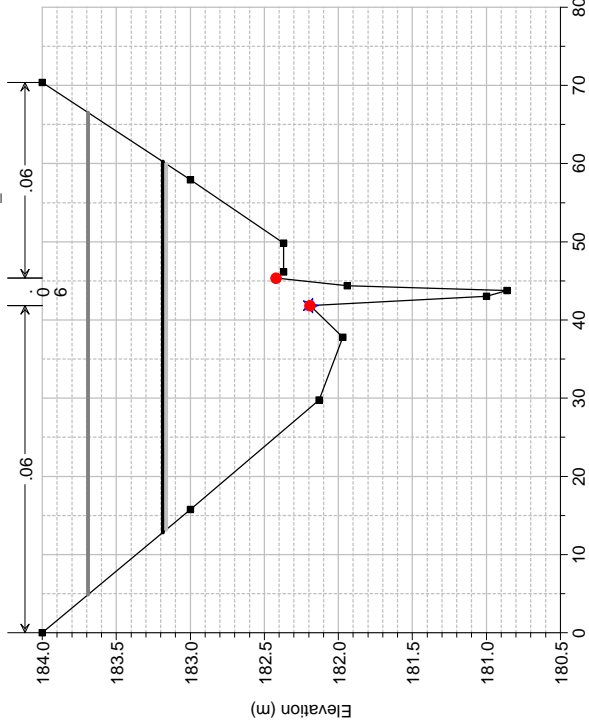
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 536.05 S6-6/10



Legend

- P.L. Max WS - 200Y-1.5H_A2SP
- P.L. Max WS - 200Y-1.5H_A1SP
- P.L. Max WS - 200Y-1.5H_USP
- Ground
- Bank Sta

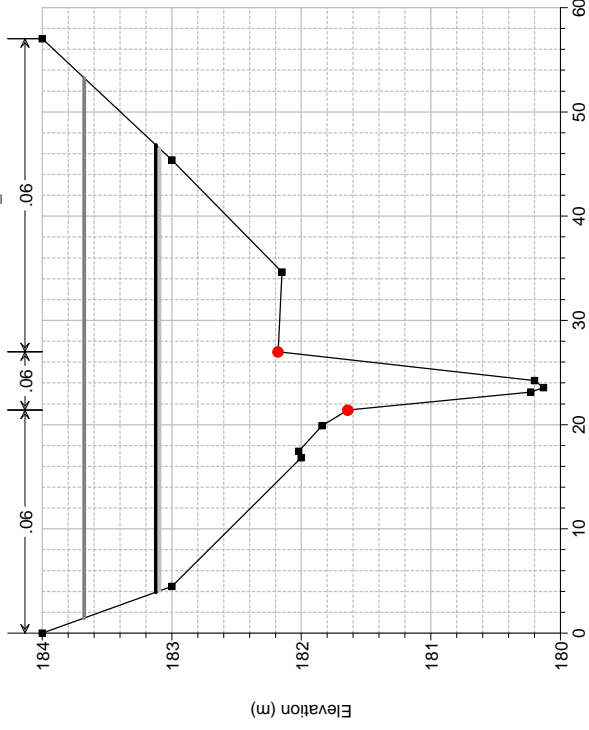
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 506.65 S7-7/10



Legend

- P.L. Max WS - 200Y-1.5H_A2SP
- P.L. Max WS - 200Y-1.5H_A1SP
- P.L. Max WS - 200Y-1.5H_USP
- Ground
- Bank Sta

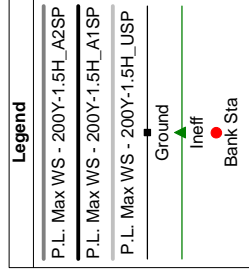
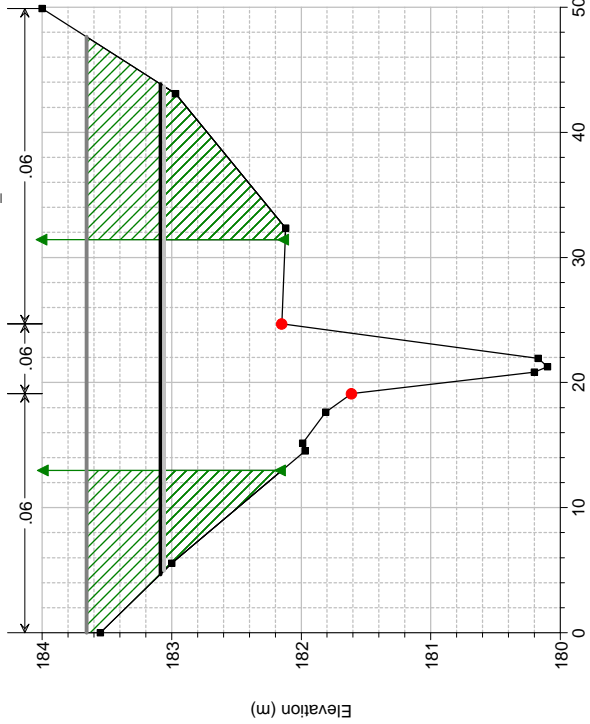
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 465.57 S8-8/10



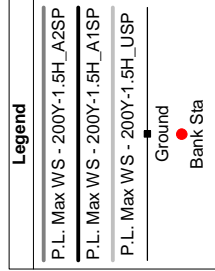
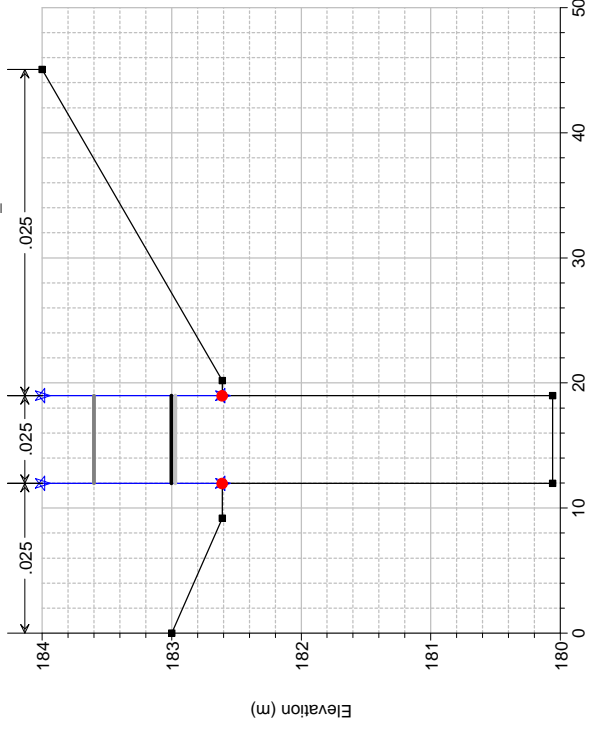
Legend

- P.L. Max WS - 200Y-1.5H_A2SP
- P.L. Max WS - 200Y-1.5H_A1SP
- P.L. Max WS - 200Y-1.5H_USP
- Ground
- Bank Sta

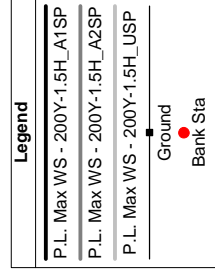
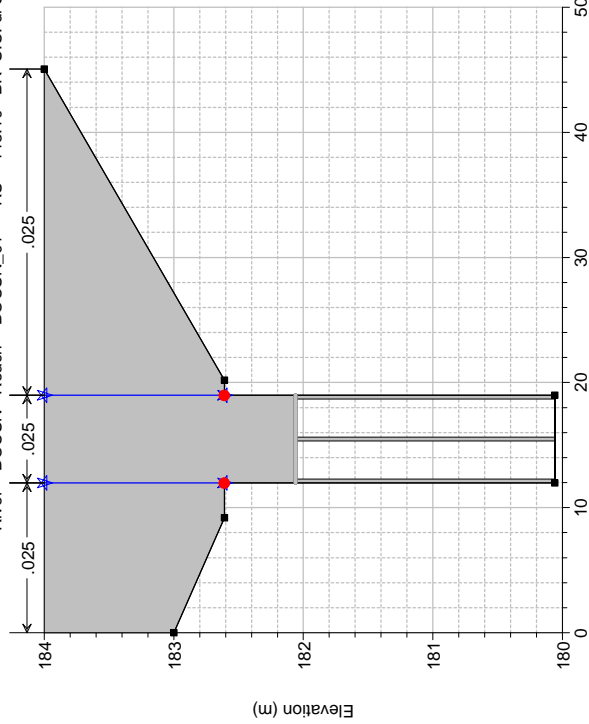
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 456.09 S9-9/10



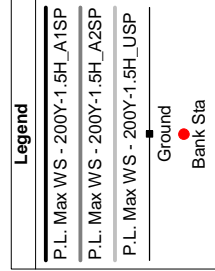
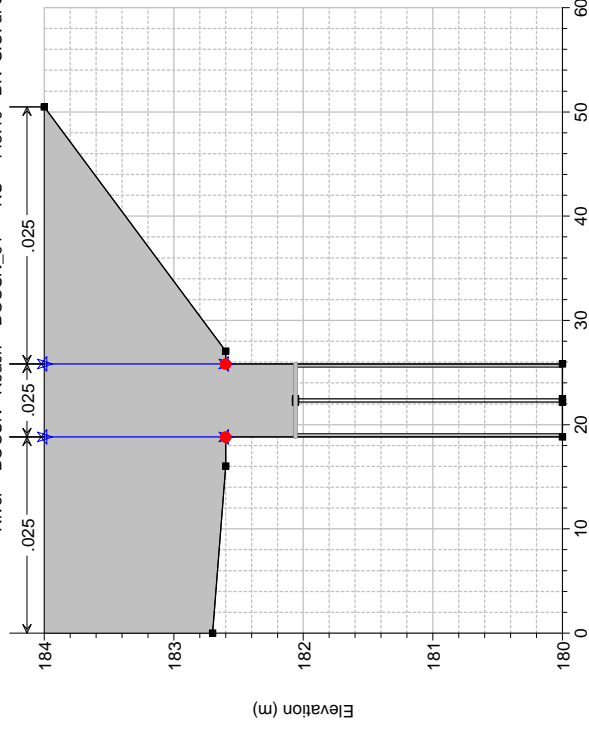
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 448.99 S10-10/10



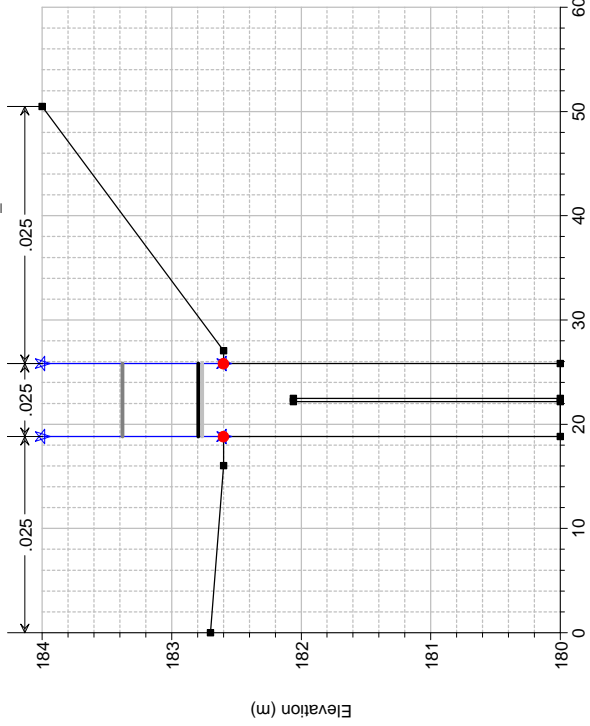
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 443.10 BR S.C. di Sant'Ersilia



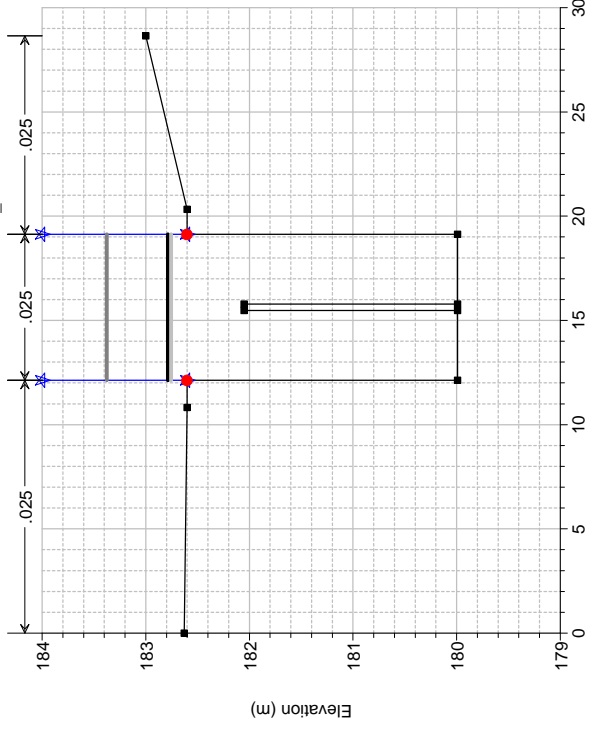
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 River = BOCSN Reach = BOCSN_01 RS = 443.10 BR S.C. di Sant'Ersilia



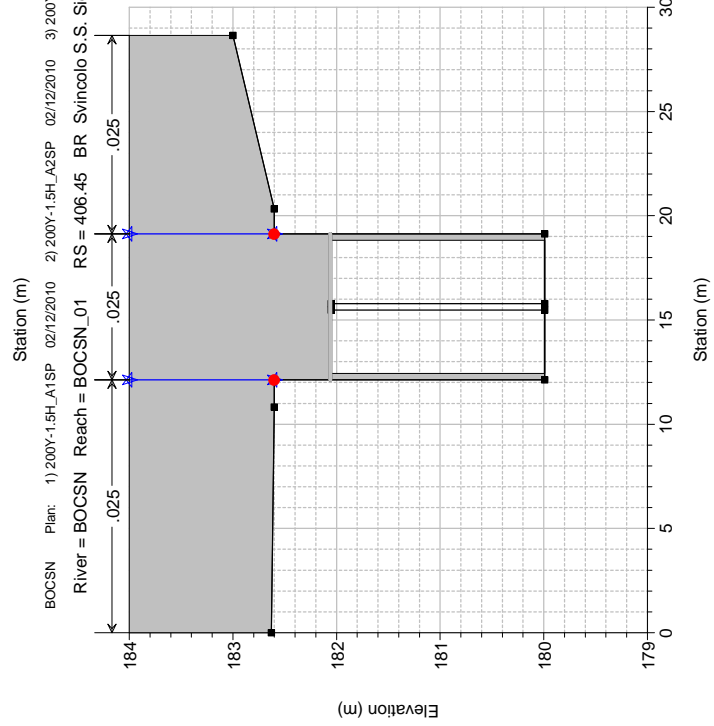
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 437.20 S11-11/10



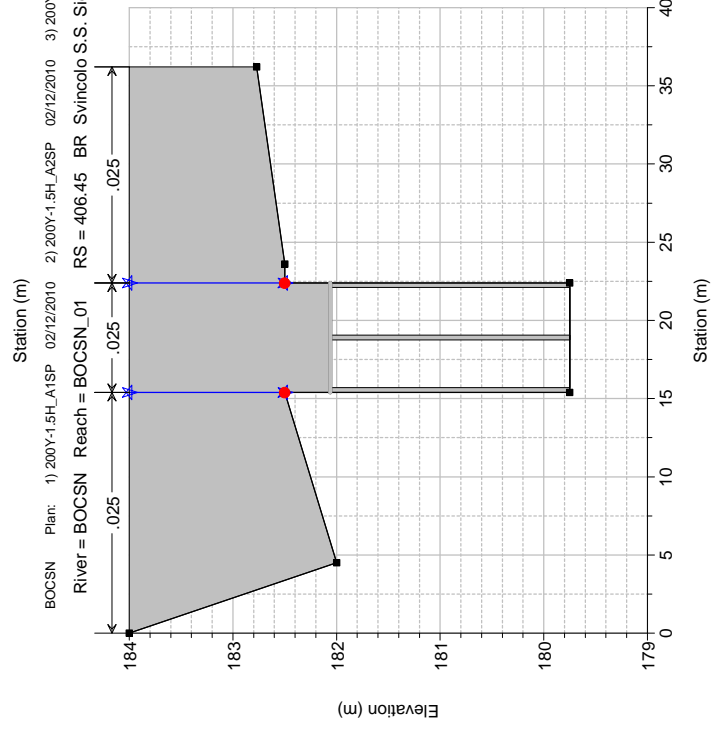
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 River = BOCSN Reach = BOCSN_01 RS = 424.06 S12-12/10



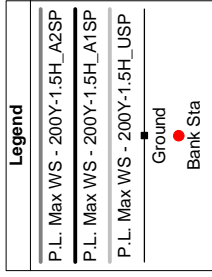
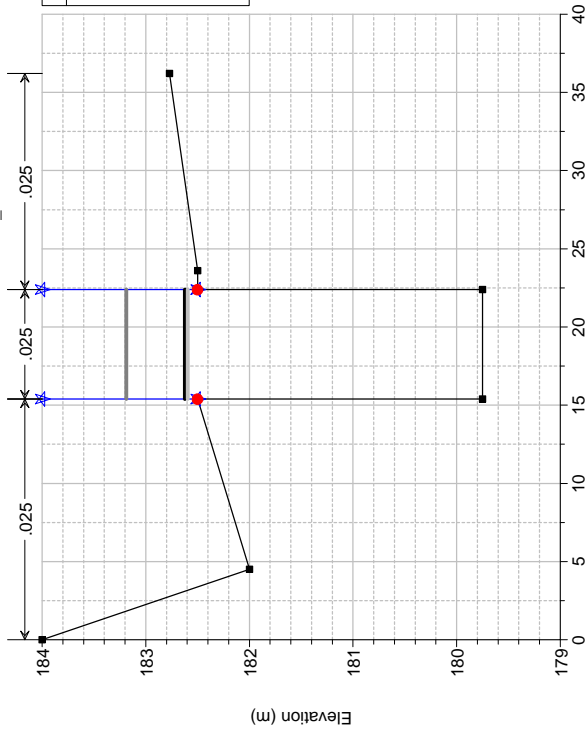
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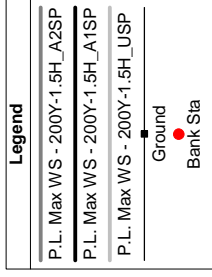
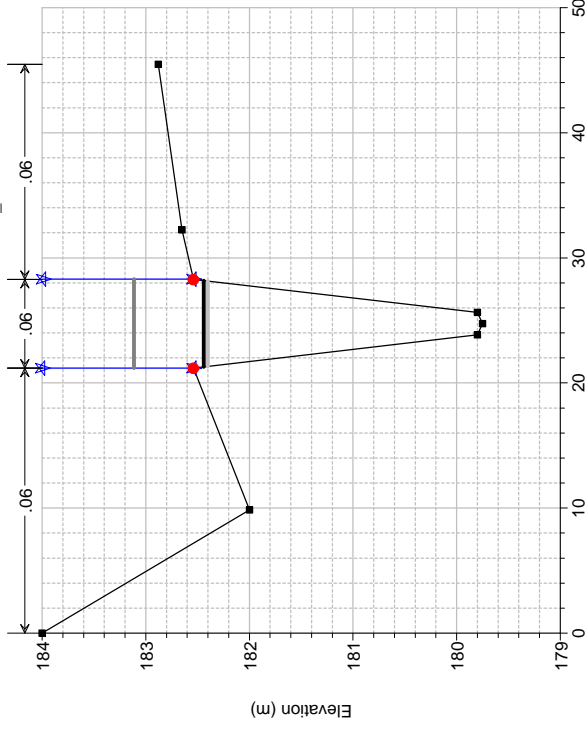
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 406.45 BR Svincolo S.S. Siena-Bettolle Monte



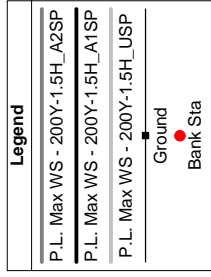
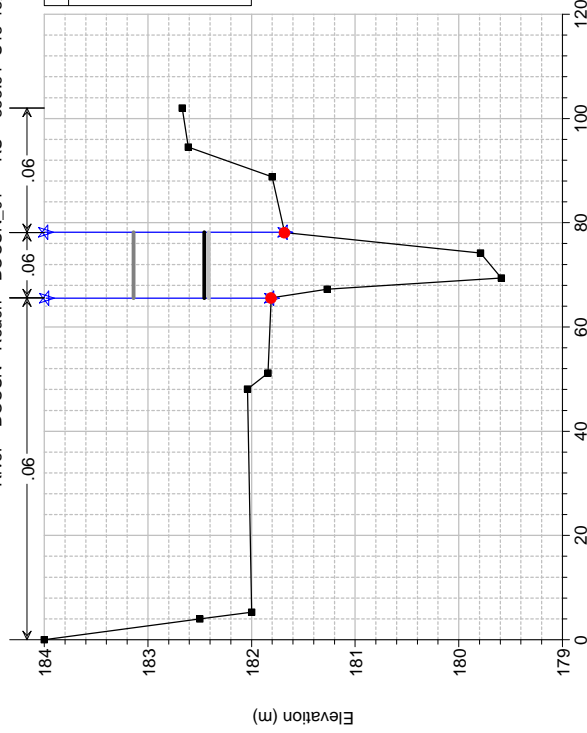
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 391.48 S13-13/10



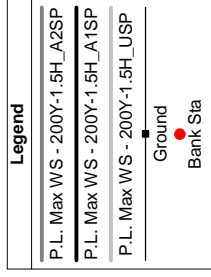
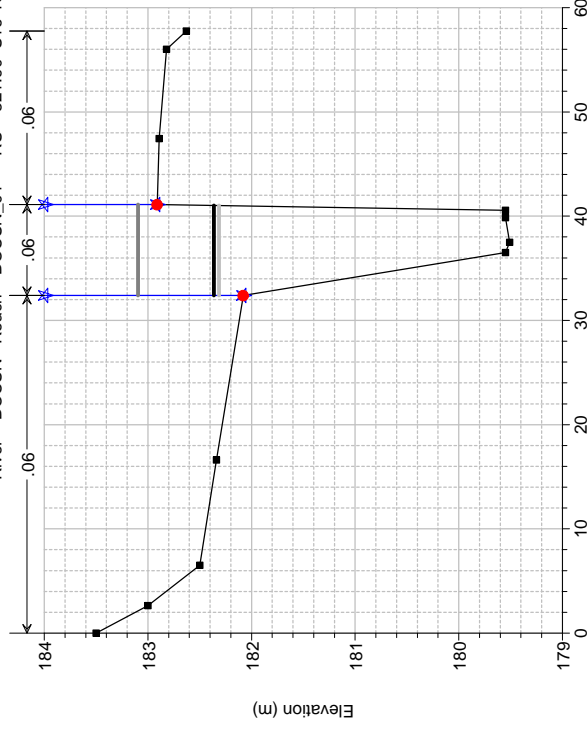
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 River = BOCSN Reach = BOCSN_01 RS = 386.82 S14-14/10



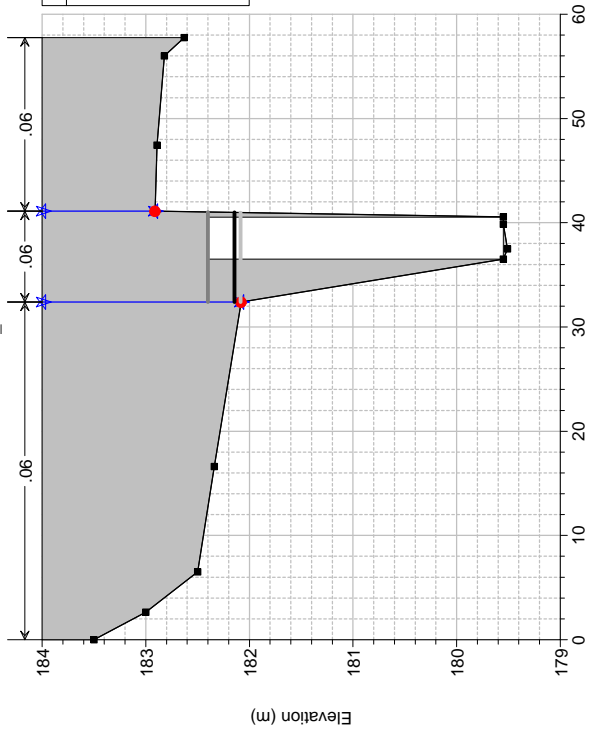
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 River = BOCSN Reach = BOCSN_01 RS = 353.91 S15-15/10



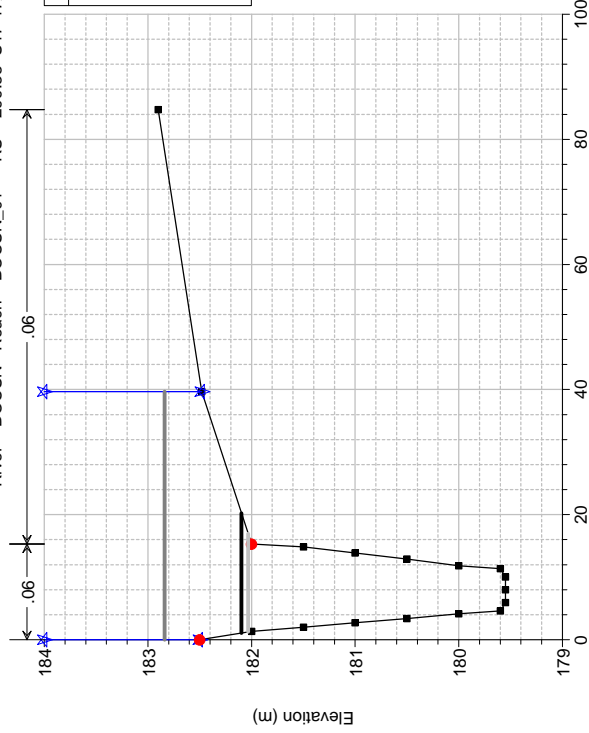
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 River = BOCSN Reach = BOCSN_01 RS = 321.90 S16-16/10



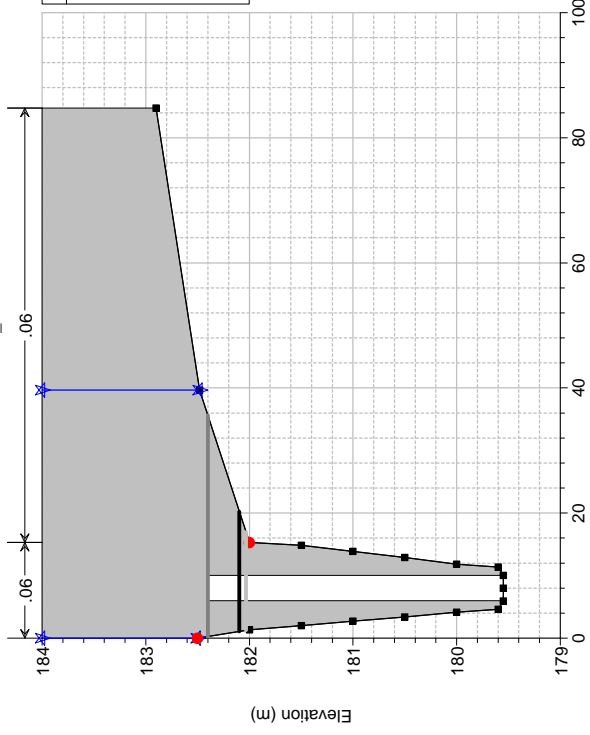
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 310.64 Culv Svincolo S.S. Siena-Bettolle Valle



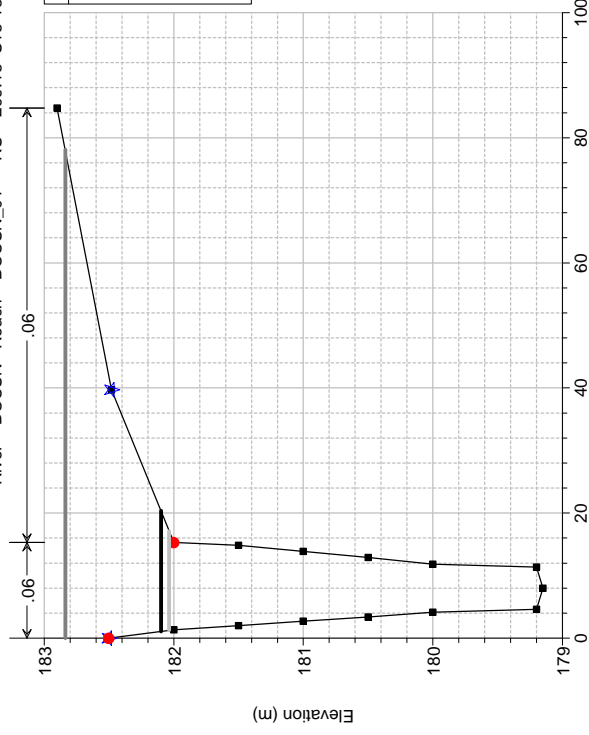
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 River = BOCSN Reach = BOCSN_01 RS = 299.38 S17-17/10



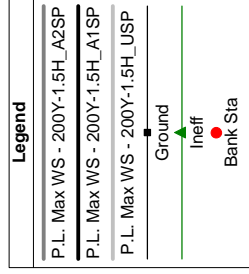
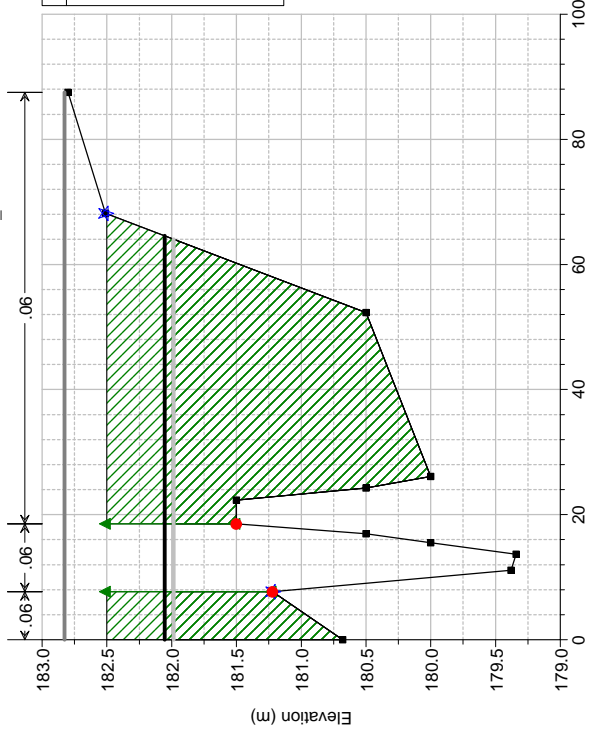
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 River = BOCSN Reach = BOCSN_01 RS = 310.64 Culv Svincolo S.S. Siena-Bettolle Valle



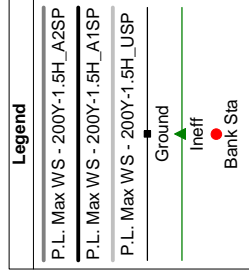
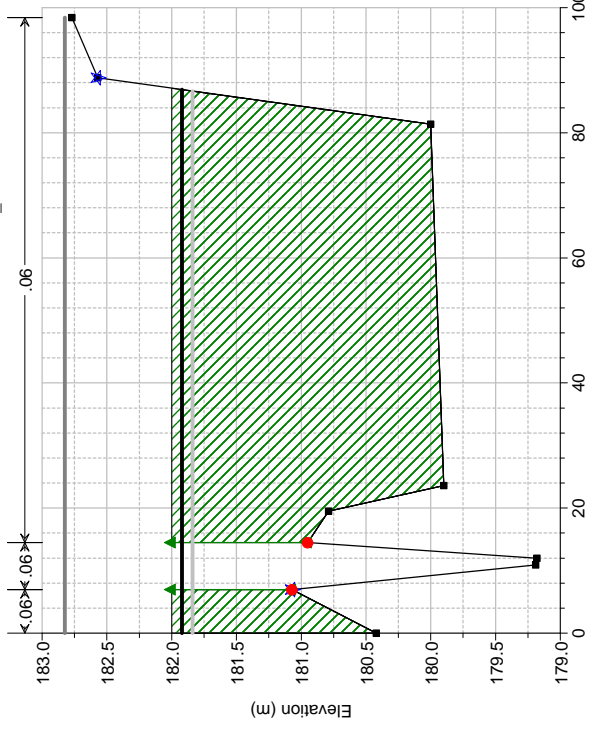
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 River = BOCSN Reach = BOCSN_01 RS = 299.18 S18-18/10



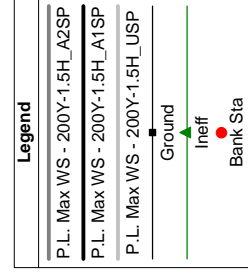
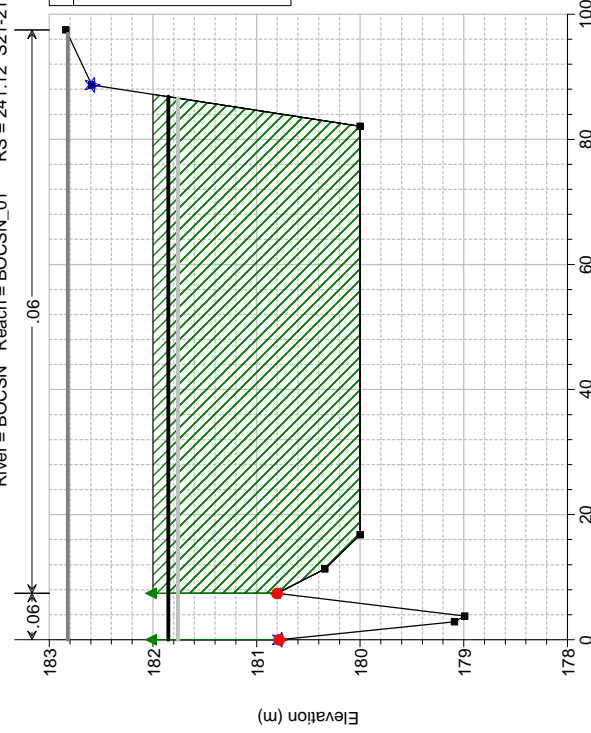
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 289.76 S19-19/10



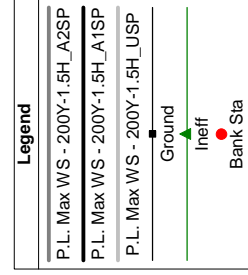
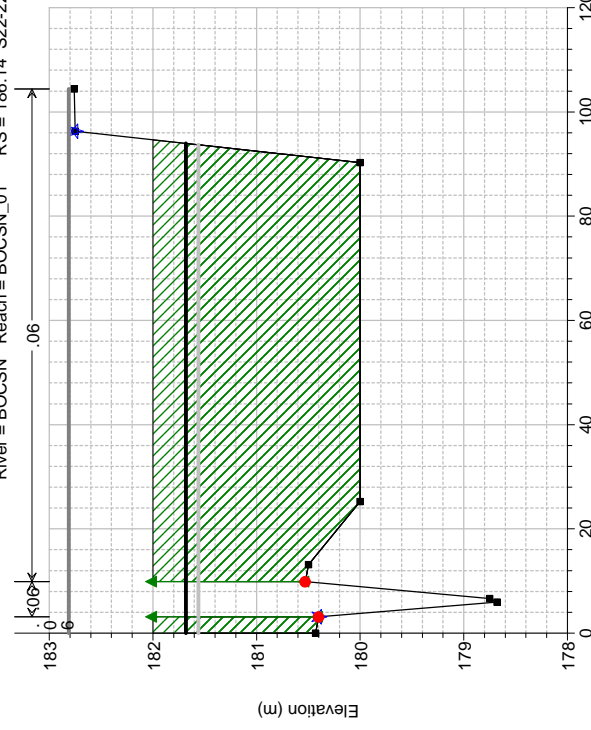
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 263.68 S20-20/10



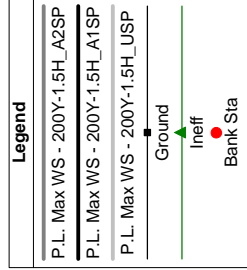
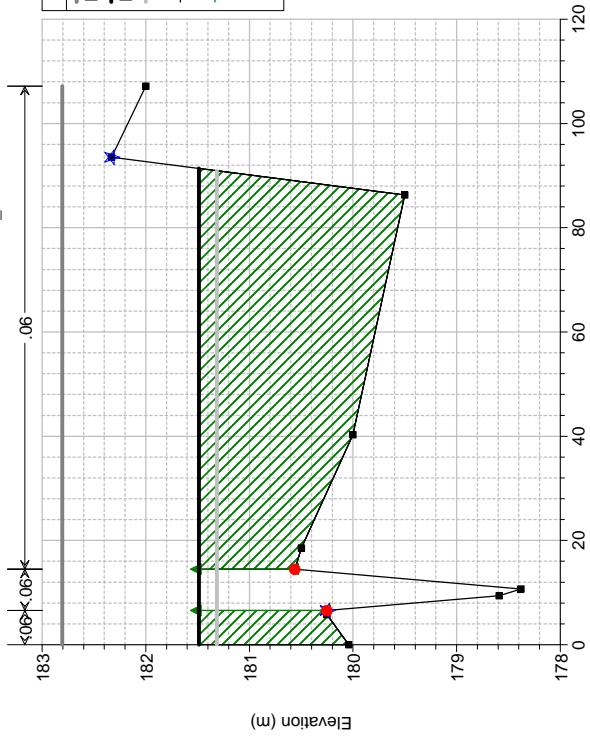
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 241.12 S21-21/10



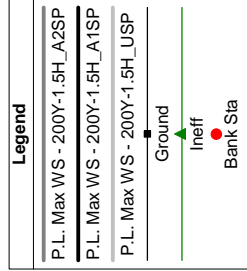
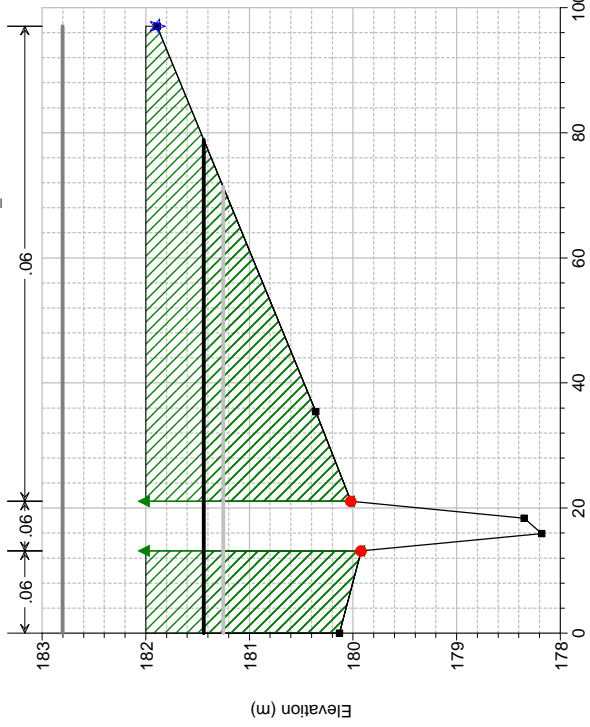
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 186.14 S22-22/10



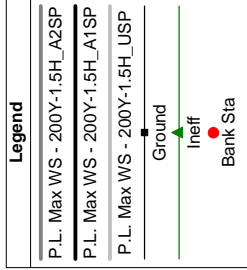
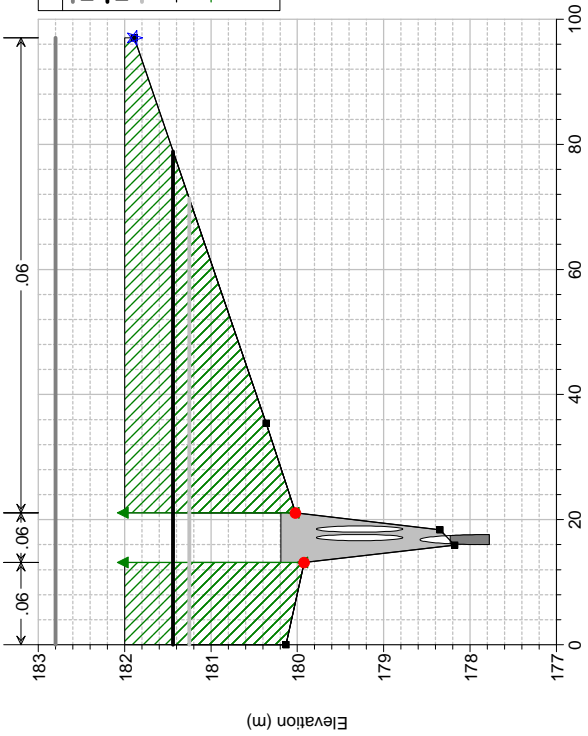
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 99.08 S23-23/10



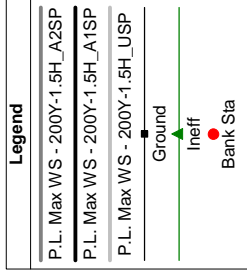
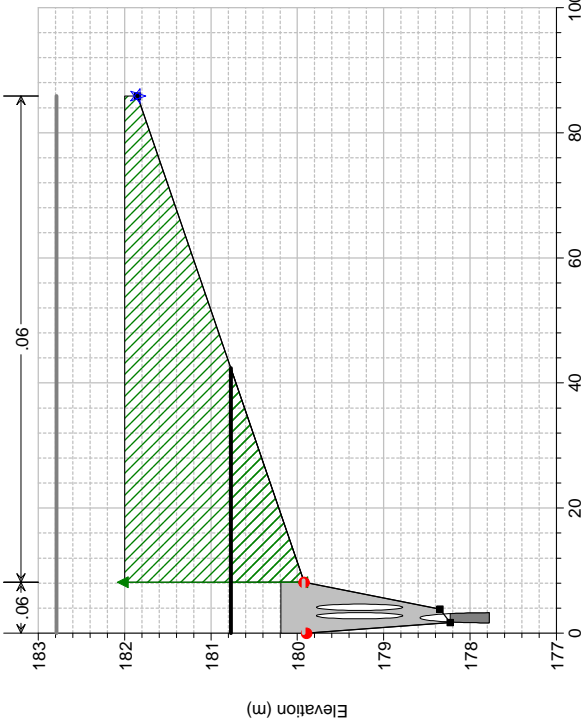
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 62.35 S24-24/10



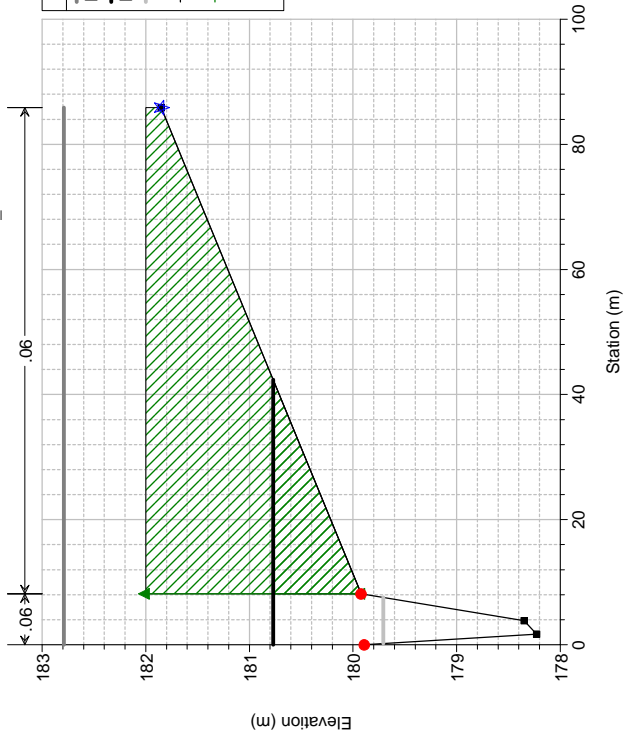
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 60.57 Culv. Guado in area golenale T. Arbia



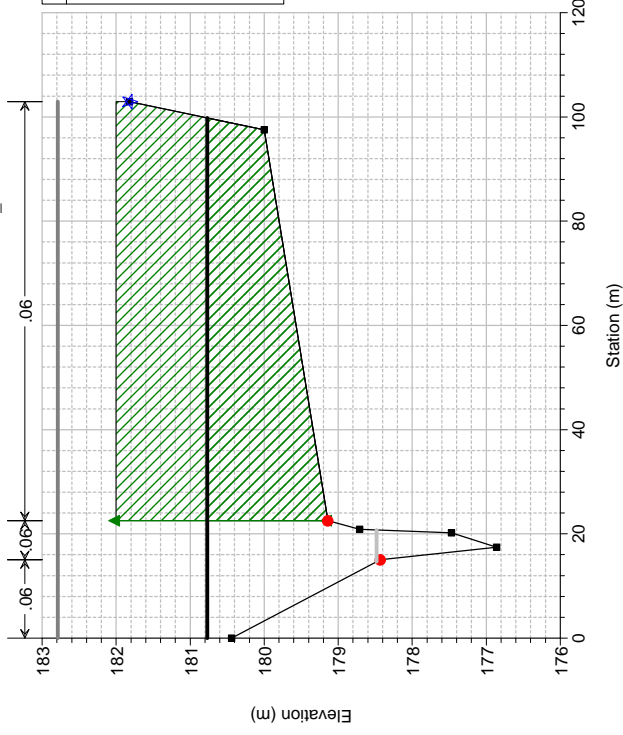
BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 60.57 Culv. Guado in area golenale T. Arbia



BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 58.78 S25-25/10



BOCSN Plan: 1) 200Y-1.5H_A1SP 02/12/2010 2) 200Y-1.5H_A2SP 02/12/2010 3) 200Y-1.5H_USP 02/12/2010
 River = BOCSN Reach = BOCSN_01 RS = 33.32 S26-26/10



RISULTATI GRAFICO-NUMERICI DELLA MODELLAZIONE IDRAULICA DEL

F.SO DELLA BOCCA DI CANE NELLO STATO ATTUALE

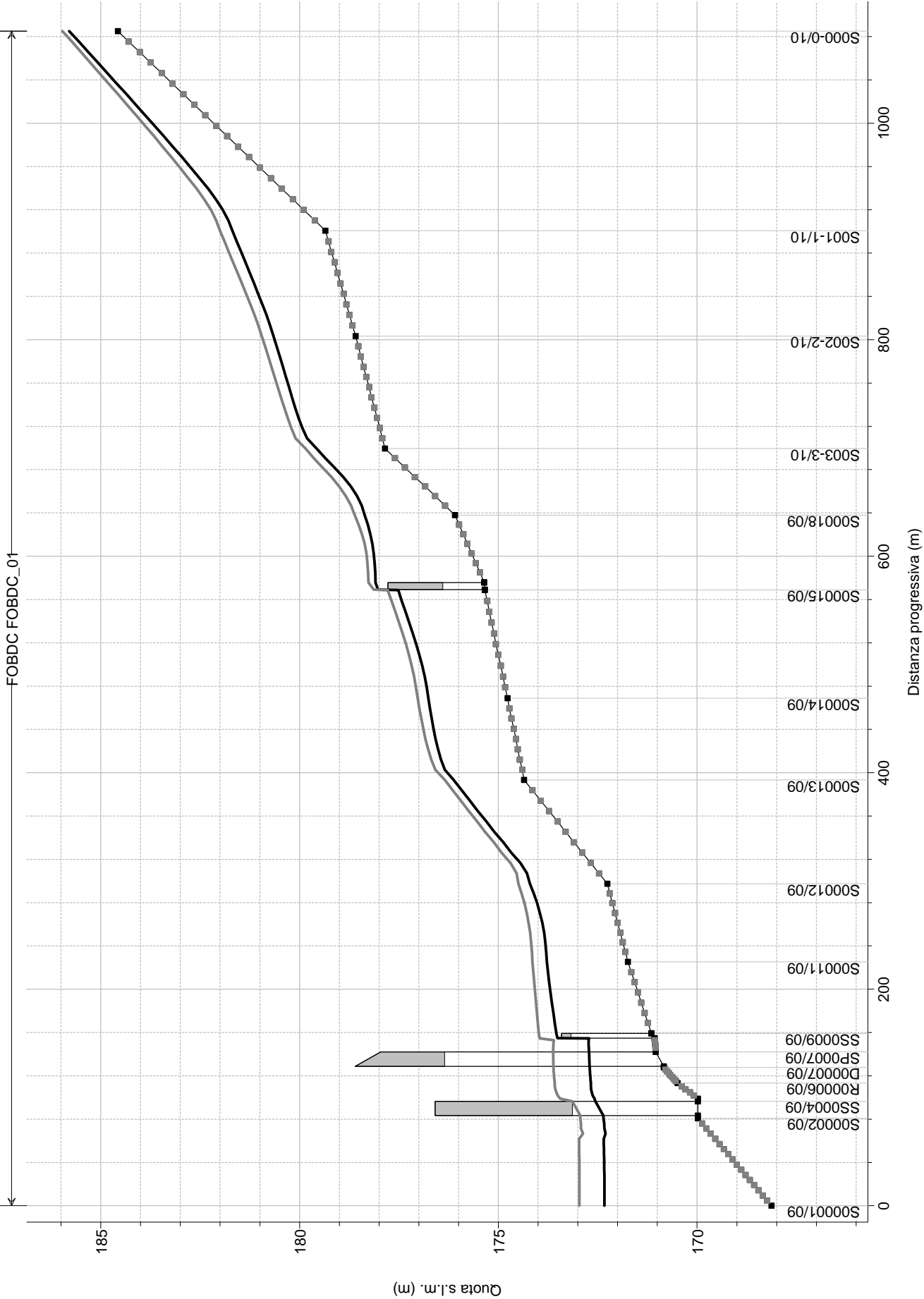
MOTO PERMANENTE

Tratto	Sezioni (RS)	Tr
Unico	1085.07 ÷ 0.00	30, 200 <i>anni</i>

LEGENDA:

Codice	Significato	U.M.
EG	Carico totale	<i>m s.l.m.</i>
P.L.	Pelo libero	<i>m s.l.m.</i>
Crit.	Altezza critica della corrente	<i>m s.l.m.</i>
Vel.	Velocità della corrente	<i>m/s</i>

FOBDC Plan: FOBDC_SA_20_200Y_RU 26/11/2010



Legend

- P.L. TR_200
- P.L. TR_30
- Ground

FOBDC FOBDC_01

185

180

175

170

Quota s.l.m. (m)

S000-0/10

S001-1/10

S002-2/10

S003-3/10

S00018/09

S00015/09

S00014/09

S00013/09

S00012/09

S00011/09

SS0009/09

SP0007/09

D00007/09

R00006/09

SS0004/09

S00002/09

S00001/09

0

200

400

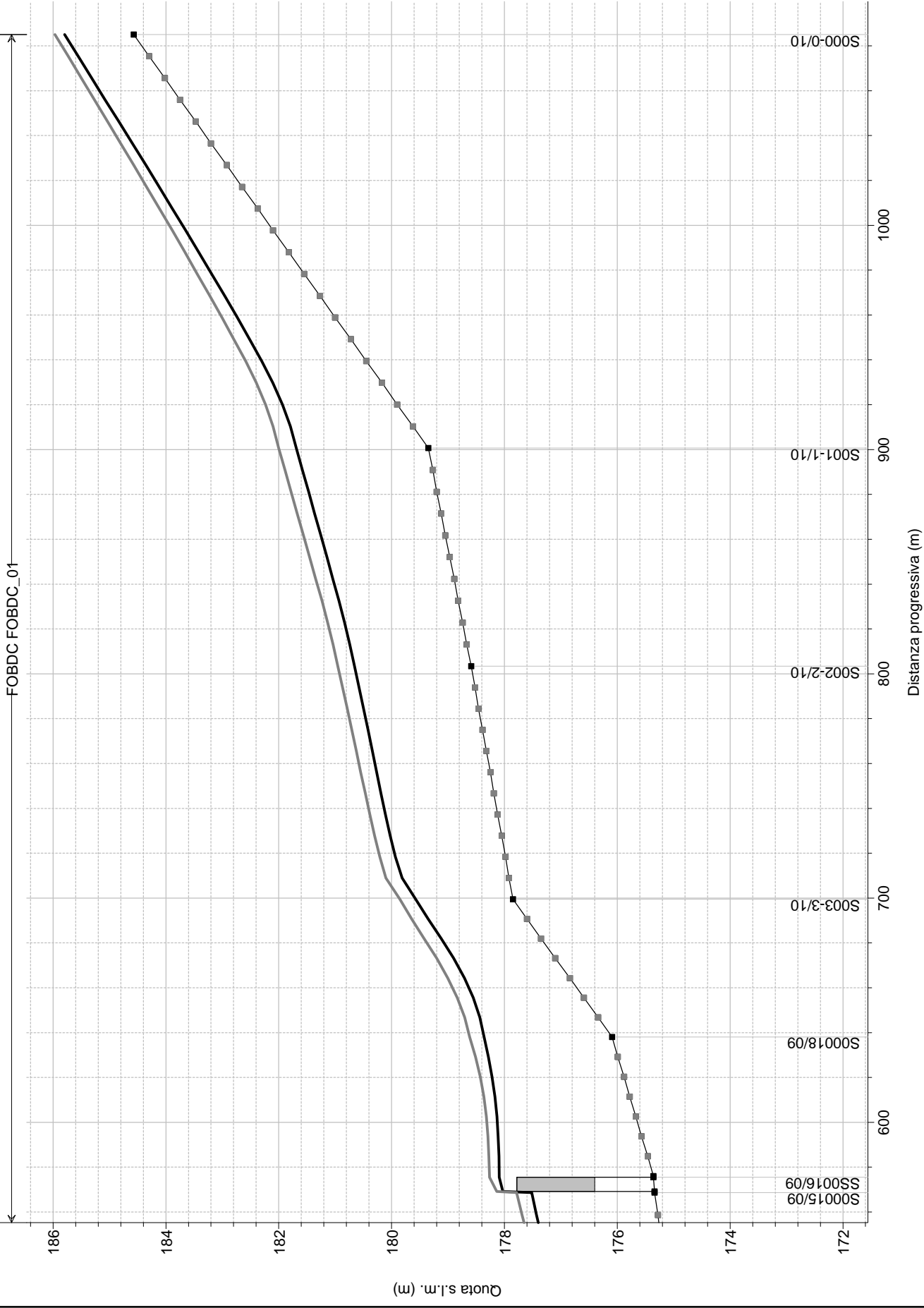
600

800

1000

Distanza progressiva (m)

FOBDC Plan: FOBDC_SA_20_200Y_RU 26/11/2010



Legend

- P.L. TR_200
- P.L. TR_30
- Ground

FOBDC FOBDC_01

S000-0/10

S001-1/10

S002-2/10

S003-3/10

S00018/09

SS0015/09

SS0016/09

Distanza progressiva (m)

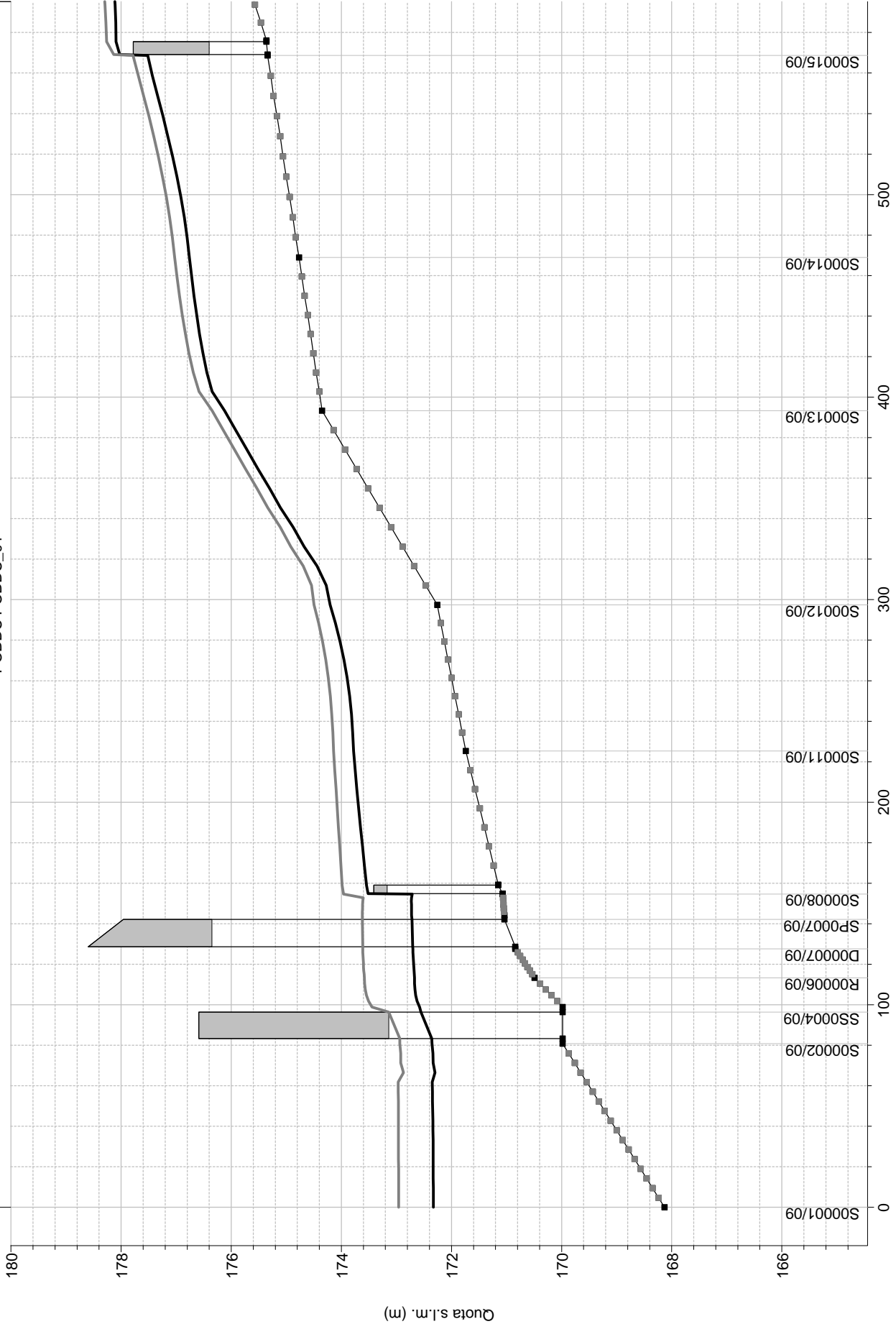
Quota s.l.m. (m)

FOBDC Plan: FOBDC_SA_20_200Y_RU 26/11/2010

FOBDC FOBDC_01

Legend

- P.L. TR_200
- P.L. TR_30
- Ground

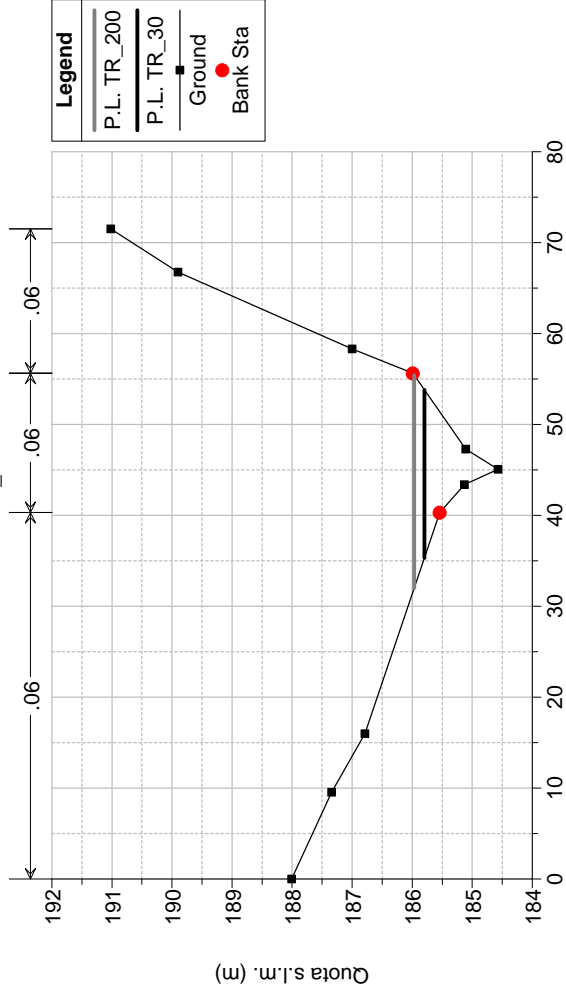


Quota s.l.m. (m)

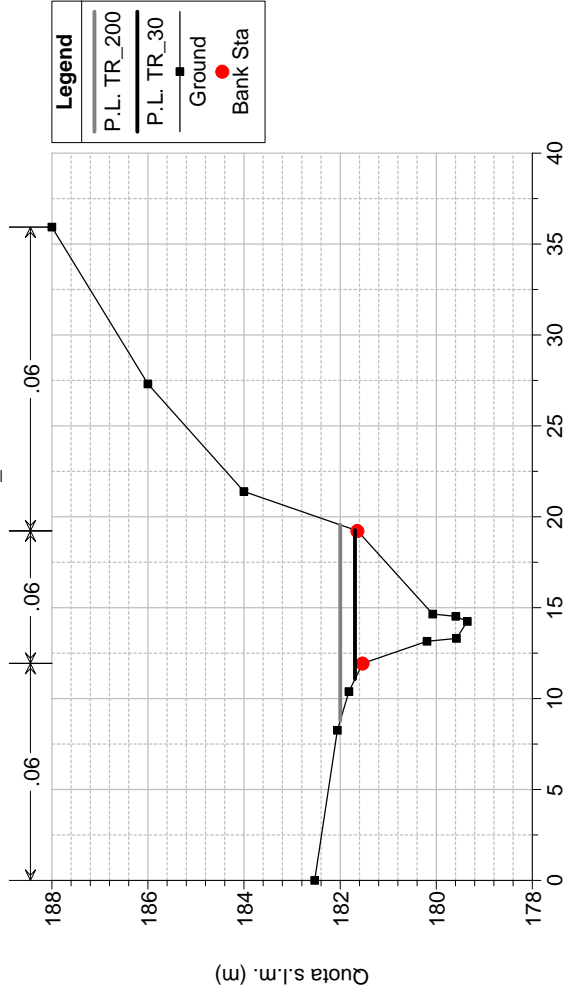
Distanza progressiva (m)

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
FOBDC_01	1085.07	TR_30	12.90	184.57	185.80	185.70	185.94	0.023642	1.69	8.01	18.48	0.73
FOBDC_01	1085.07	TR_200	19.90	184.57	185.97	185.88	186.13	0.022808	1.87	11.57	23.41	0.74
FOBDC_01	900.63	TR_30	12.90	179.35	181.69	181.15	181.82	0.010853	1.60	8.12	8.18	0.49
FOBDC_01	900.63	TR_200	19.90	179.35	182.00	181.47	182.18	0.010876	1.89	11.02	10.76	0.51
FOBDC_01	803.37	TR_30	12.90	178.59	180.66	180.23	180.79	0.008877	1.65	8.47	9.37	0.48
FOBDC_01	803.37	TR_200	19.90	178.59	180.95	180.50	181.13	0.009252	1.95	12.04	14.87	0.50
FOBDC_01	699.47	TR_30	12.90	177.85	179.57	179.41	179.81	0.022624	2.30	6.21	8.52	0.72
FOBDC_01	699.47	TR_200	19.90	177.85	179.85	179.71	180.13	0.020598	2.57	9.35	14.13	0.71
FOBDC_01	638.01	TR_30	12.90	176.09	178.36	177.81	178.51	0.010380	1.72	7.59	7.16	0.49
FOBDC_01	638.01	TR_200	19.90	176.09	178.61	178.14	178.85	0.012844	2.16	9.92	11.86	0.56
FOBDC_01	576.04	TR_30	12.90	175.36	178.09	176.85	178.13	0.001754	0.93	19.14	28.34	0.21
FOBDC_01	576.04	TR_200	19.90	175.36	178.27	177.21	178.32	0.002432	1.16	24.35	31.22	0.25
FOBDC_01	572.36			Bridge								
FOBDC_01	568.68	TR_30	12.90	175.34	177.52	176.91	177.75	0.010540	2.16	5.96	14.43	0.53
FOBDC_01	568.68	TR_200	19.90	175.34	177.78	177.29	177.96	0.009984	2.02	12.87	20.09	0.49
FOBDC_01	468.92	TR_30	12.90	174.77	176.76	176.24	176.82	0.003994	1.30	13.78	18.51	0.31
FOBDC_01	468.92	TR_200	19.90	174.77	177.03	176.51	177.10	0.004073	1.44	19.05	20.78	0.32
FOBDC_01	393.30	TR_30	12.90	174.35	176.12	176.05	176.32	0.019835	2.29	7.31	12.12	0.63
FOBDC_01	393.30	TR_200	19.90	174.35	176.35	176.25	176.58	0.019991	2.55	10.26	14.26	0.64
FOBDC_01	297.44	TR_30	12.90	172.26	174.20	173.88	174.37	0.011122	2.06	8.56	14.69	0.52
FOBDC_01	297.44	TR_200	19.90	172.26	174.49	174.28	174.65	0.009529	2.13	13.55	18.82	0.49
FOBDC_01	225.34	TR_30	12.90	171.74	173.78	173.07	173.82	0.002555	1.13	15.64	18.90	0.27
FOBDC_01	225.34	TR_200	19.90	171.74	174.14	173.43	174.19	0.002253	1.20	23.12	22.45	0.26
FOBDC_01	159.33	TR_30	12.90	171.15	173.54	172.51	173.61	0.003788	1.17	12.77	20.27	0.30
FOBDC_01	159.33	TR_200	19.90	171.15	173.99	172.93	174.03	0.002364	1.09	24.46	31.25	0.24
FOBDC_01	156.96			Bridge								
FOBDC_01	154.58	TR_30	12.90	171.07	172.72	172.34	173.09	0.006567	2.69	4.79	5.79	0.67
FOBDC_01	154.58	TR_200	19.90	171.07	173.96	172.76	174.00	0.000709	0.94	31.85	34.29	0.21
FOBDC_01	150.21	TR_30	12.90	171.04	172.72	172.12	172.83	0.002482	1.41	9.12	20.20	0.40
FOBDC_01	150.21	TR_200	19.90	171.04	173.62	172.36	173.71	0.001033	1.29	15.39	39.32	0.28
FOBDC_01	142.45			Bridge								
FOBDC_01	133.69	TR_30	12.90	170.84	172.70	171.92	172.78	0.001622	1.24	10.37	20.70	0.33
FOBDC_01	133.69	TR_200	19.90	170.84	173.61	172.16	173.68	0.000782	1.19	16.74	40.19	0.25
FOBDC_01	116.31	TR_30	12.90	170.49	172.67	171.67	172.76	0.001712	1.30	10.06	19.45	0.31
FOBDC_01	116.31	TR_200	19.90	170.49	173.58	172.00	173.67	0.000975	1.30	15.56	40.32	0.25
FOBDC_01	98.92	TR_30	12.90	169.98	172.58	171.22	172.72	0.002747	1.64	7.88	20.32	0.33
FOBDC_01	98.92	TR_200	19.90	169.98	173.44	171.63	173.63	0.002497	1.89	10.52	36.49	0.33
FOBDC_01	89.86			Bridge								
FOBDC_01	80.80	TR_30	12.90	169.98	172.35	171.27	172.53	0.004007	1.83	7.04	14.68	0.39
FOBDC_01	80.80	TR_200	19.90	169.98	172.94	171.68	173.20	0.004477	2.25	8.83	25.99	0.42
FOBDC_01	0.00	TR_30	12.90	168.13	172.33	169.73	172.33	0.000152	0.33	53.74	48.87	0.07
FOBDC_01	0.00	TR_200	19.90	168.13	172.96	170.11	172.96	0.000098	0.31	84.53	48.87	0.05

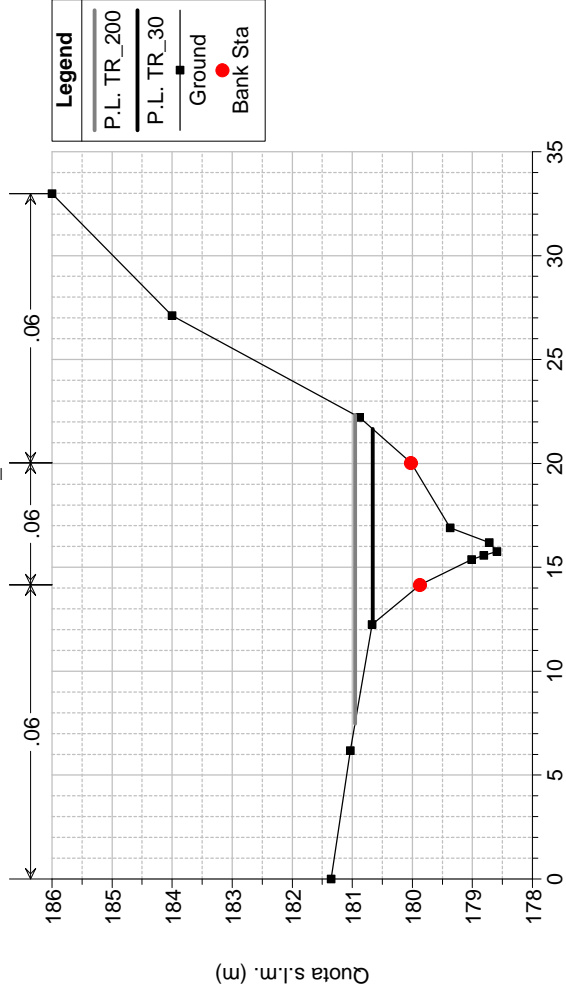
FOBDC Plan: FOBDC_SA_20_200Y_RU 26/11/2010
 River = FOBDC Reach = FOBDC_01 RS = 1085.07 S000-0/10



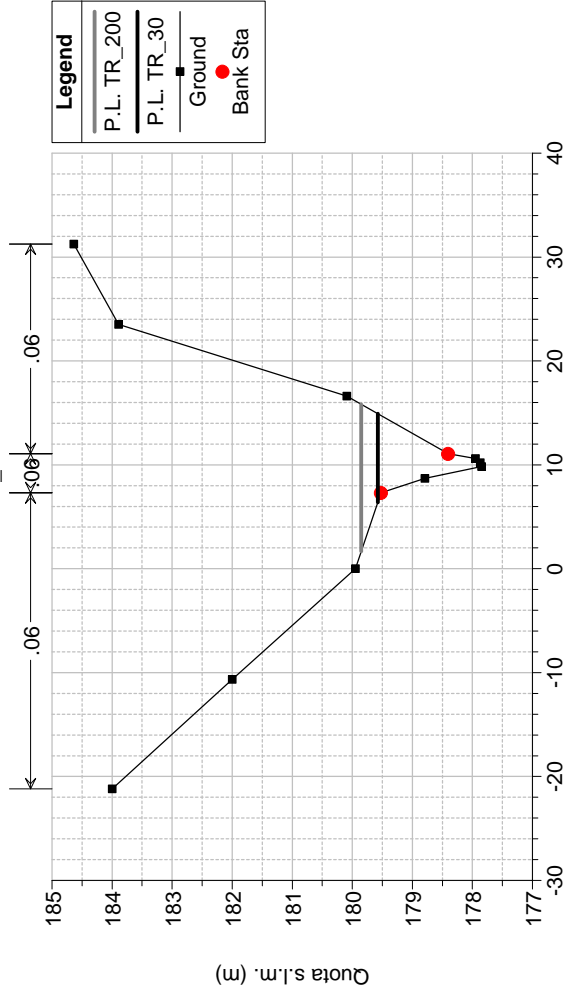
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 River = FOBDC Reach = FOBDC_01 RS = 900.63 S001-1/10



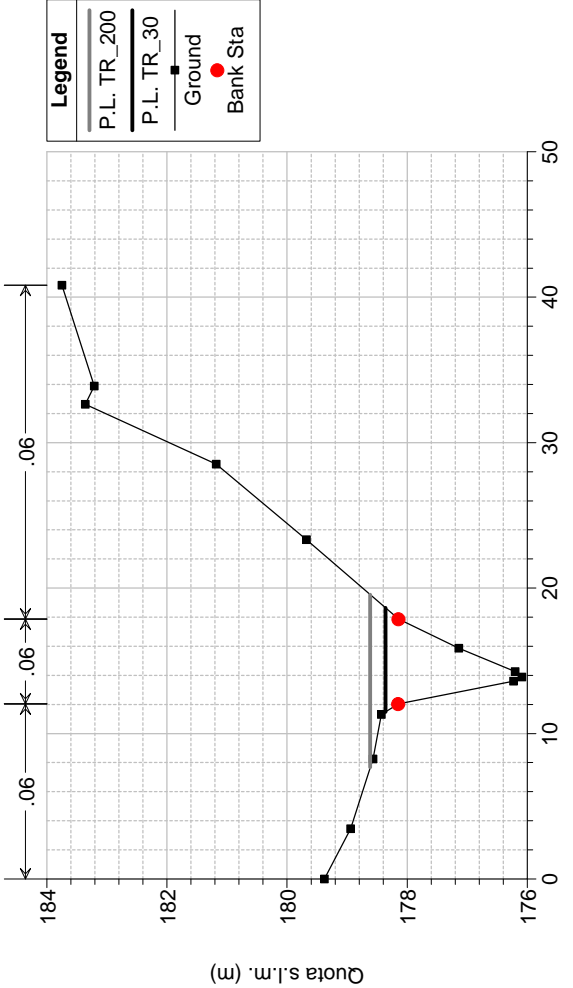
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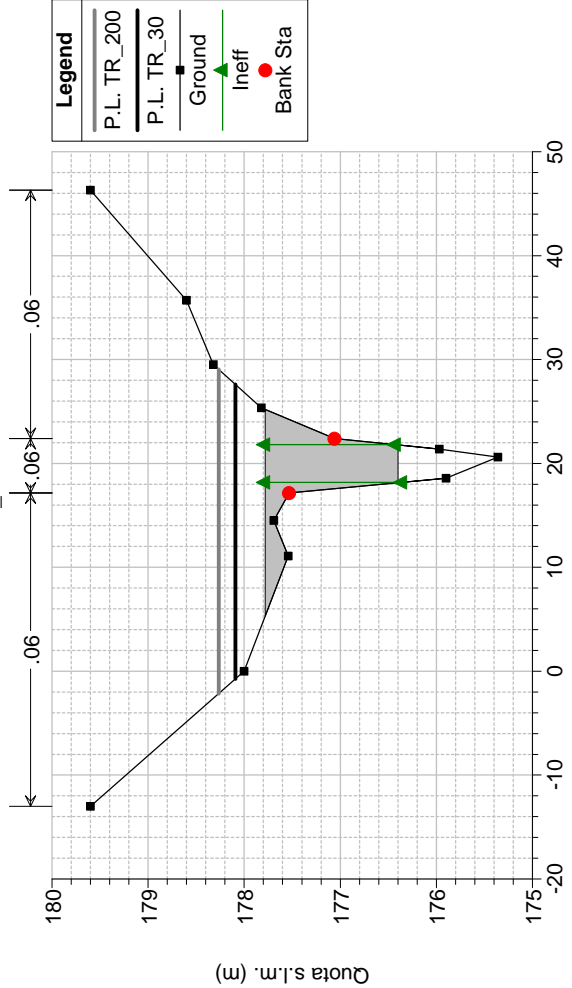
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 River = FOBDC Reach = FOBDC_01 RS = 699.47 S003-3/10



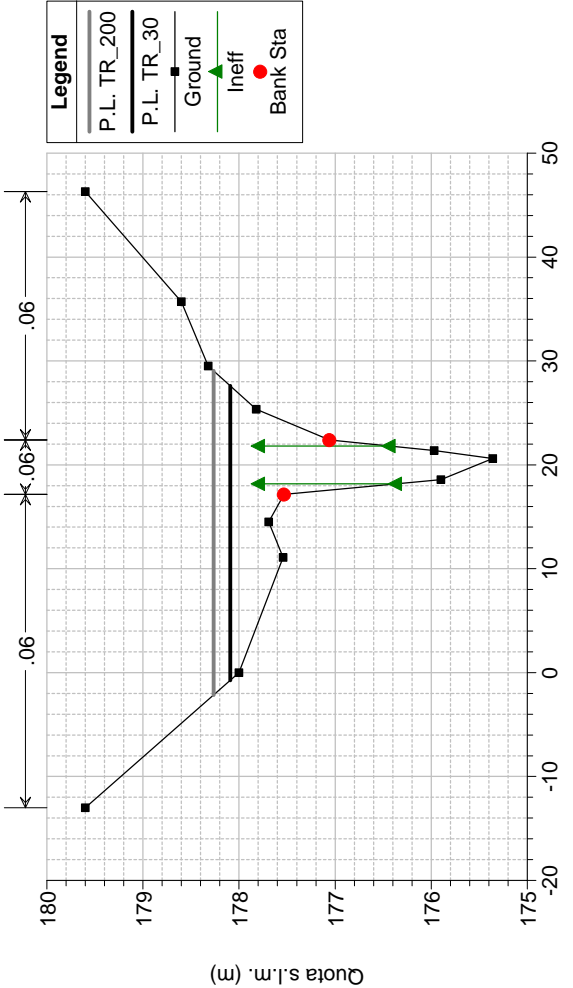
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 River = FOBDC Reach = FOBDC_01 RS = 638.01 S00018/09



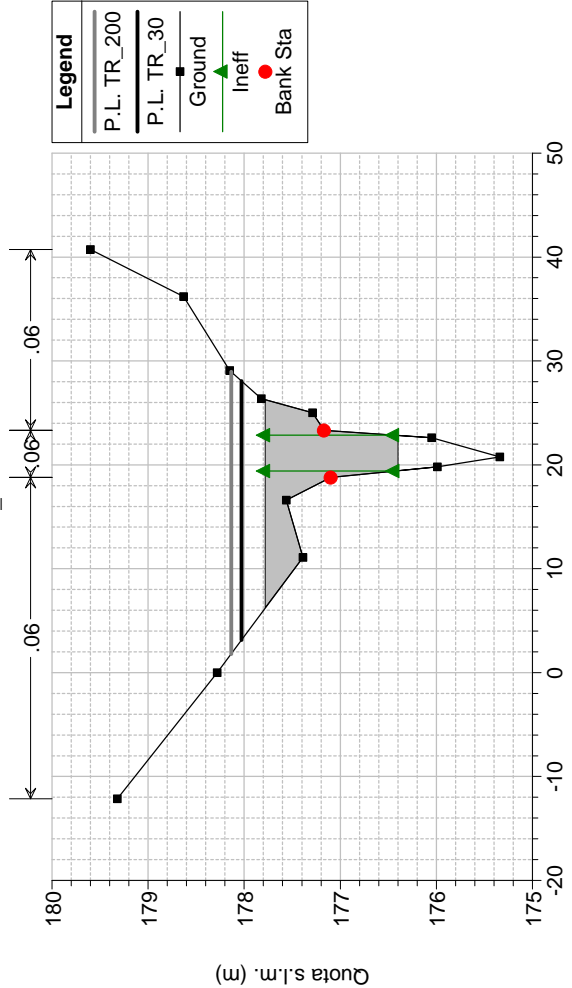
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 River = FOBDC Reach = FOBDC_01 RS = 572.36 BR SS0016/09



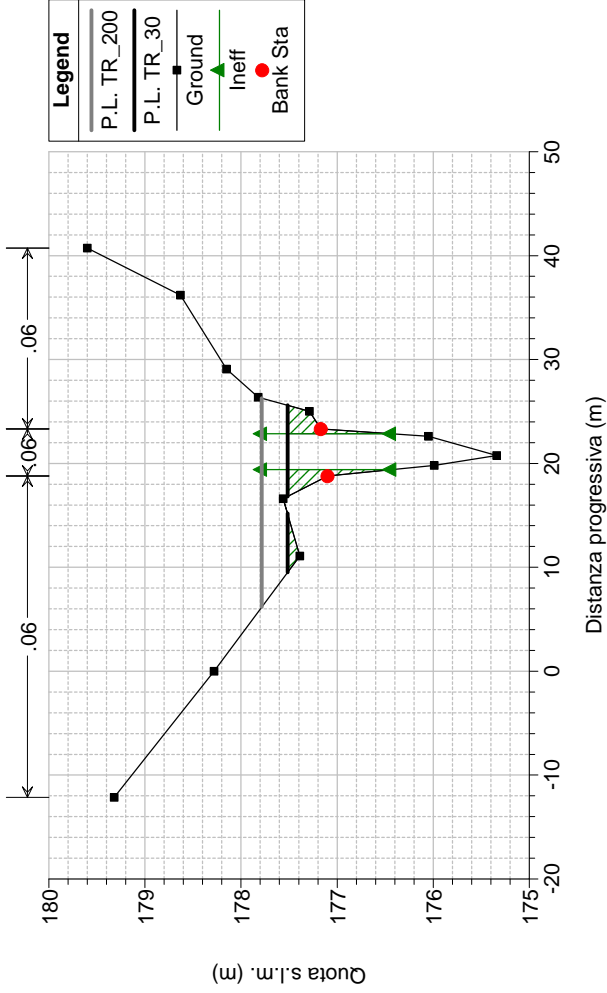
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 River = FOBDC Reach = FOBDC_01 RS = 576.04 S00017/09



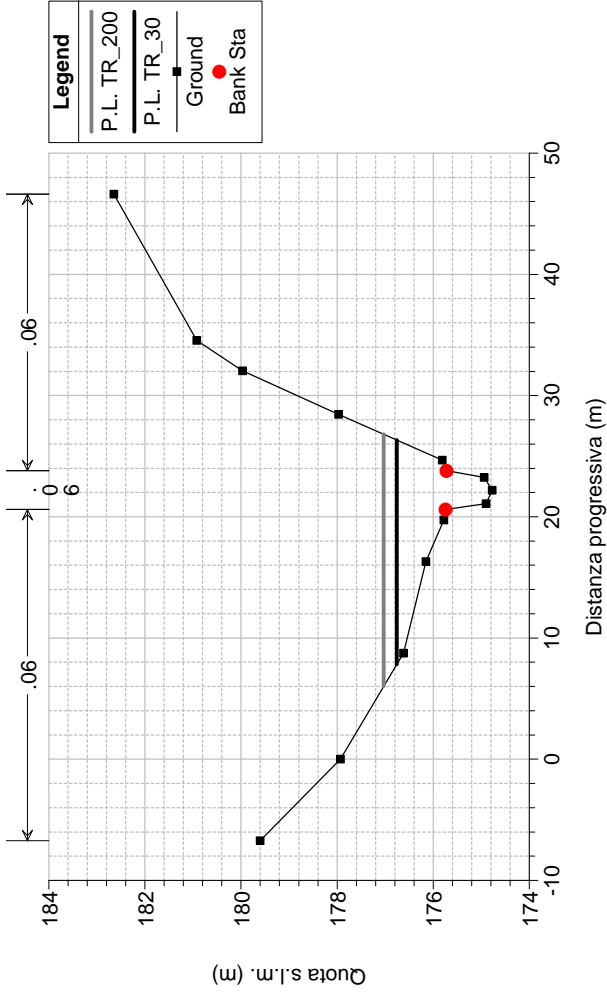
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 River = FOBDC Reach = FOBDC_01 RS = 572.36 BR SS0016/09



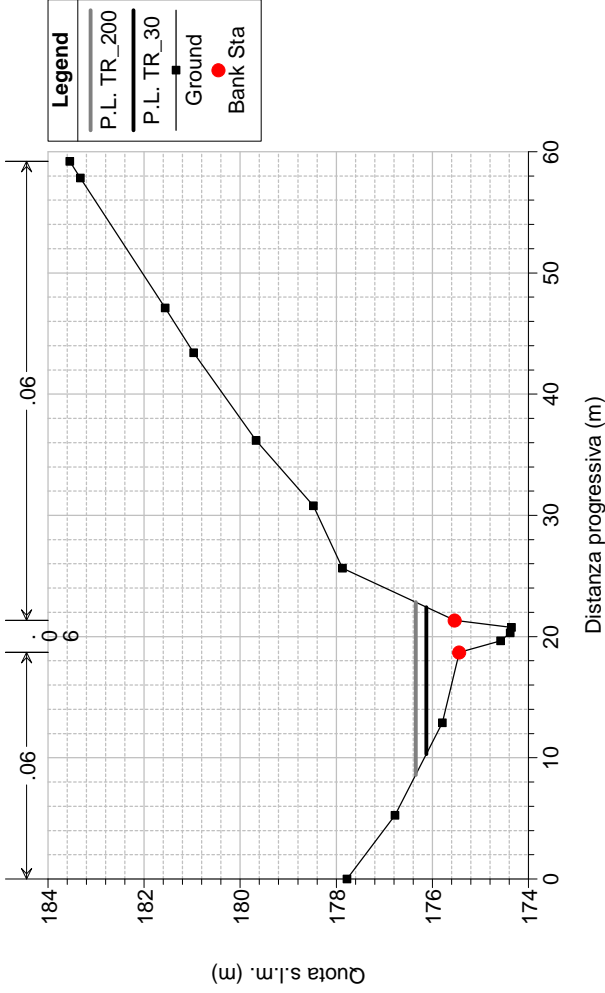
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 River = FOBDC Reach = FOBDC_01 RS = 568.68 S00015/09



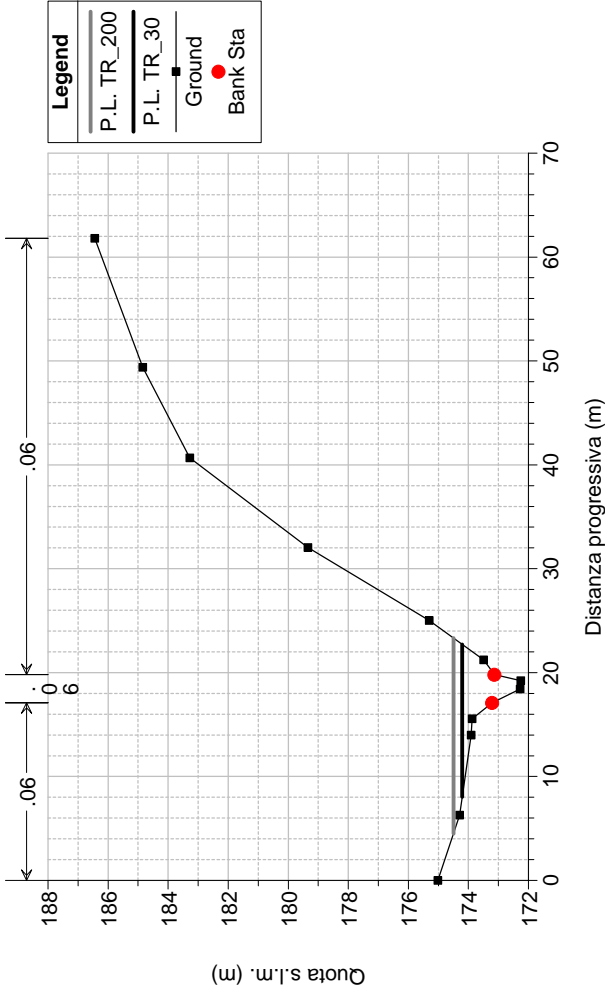
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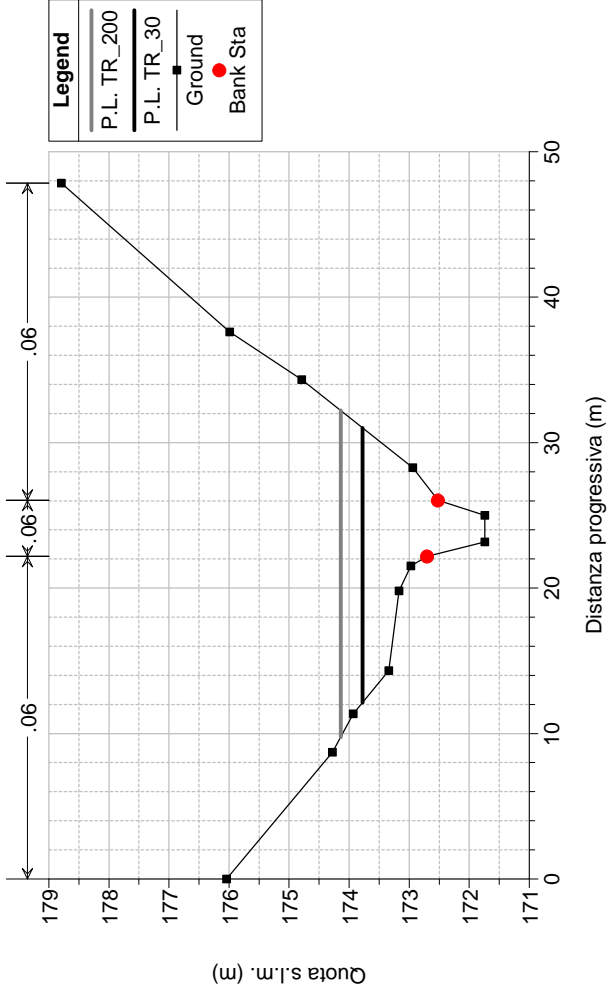
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 River = FOBDC Reach = FOBDC_01 RS = 393.30 S00013/09



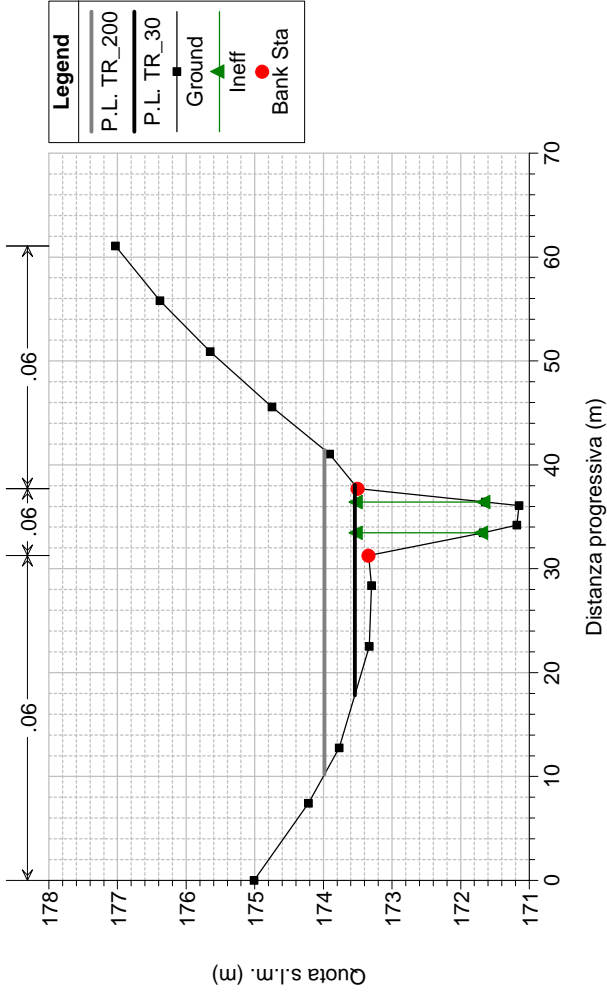
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 River = FOBDC Reach = FOBDC_01 RS = 297.44 S00012/09



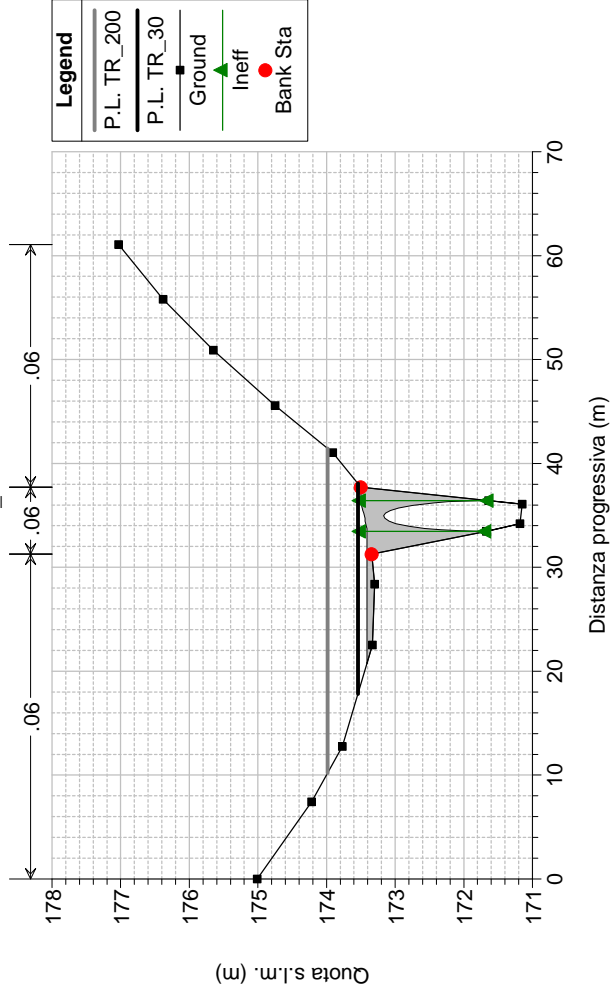
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 River = FOBDC Reach = FOBDC_01 RS = 225.34 S00011/09



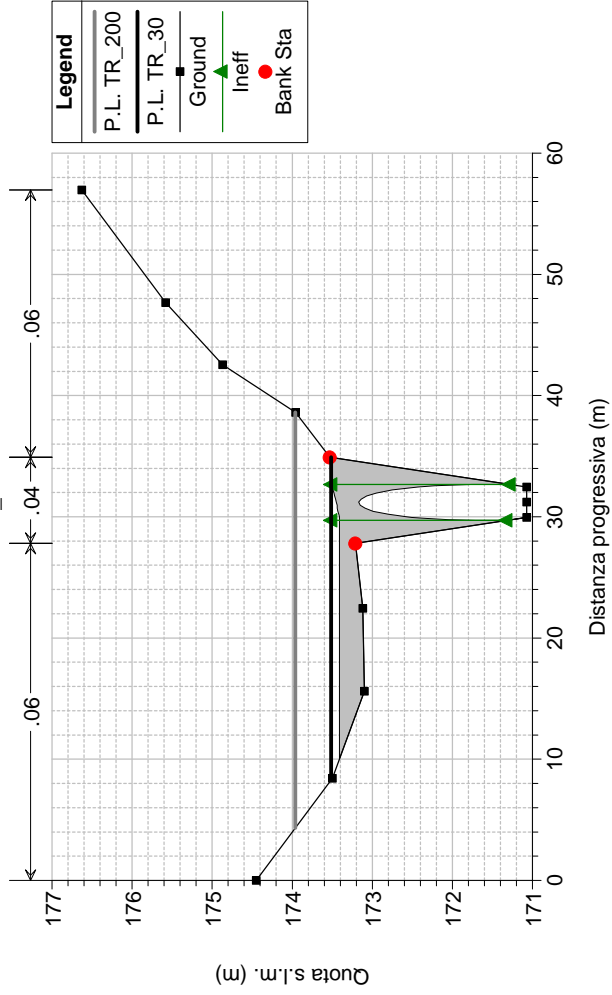
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 River = FOBDC Reach = FOBDC_01 RS = 159.33 S00010/09



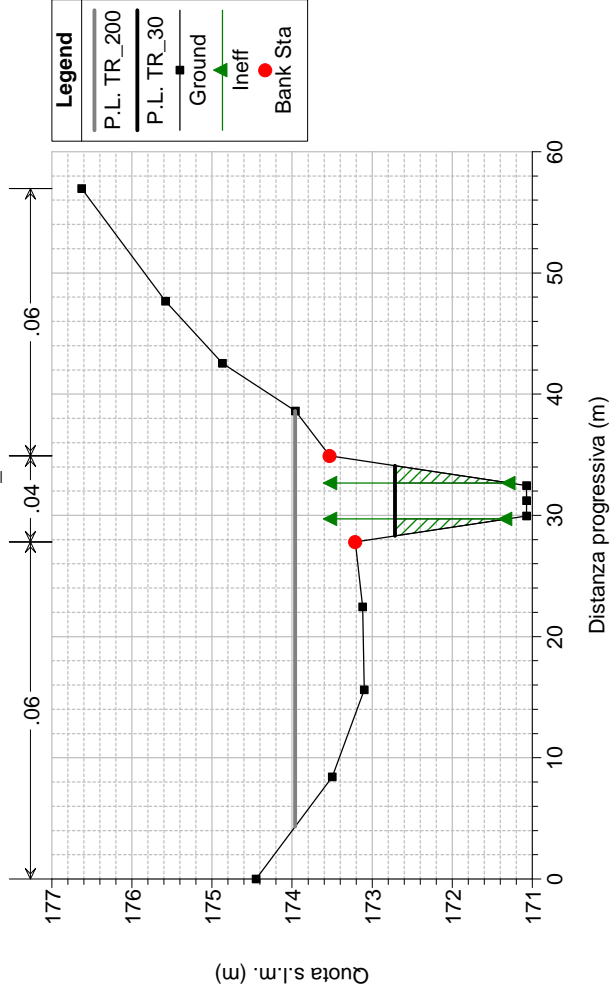
FOBDC Plan: FOBDC_SA_20_200Y_RU 26/11/2010
 River = FOBDC Reach = FOBDC_01 RS = 156.96 BR SS0009/09



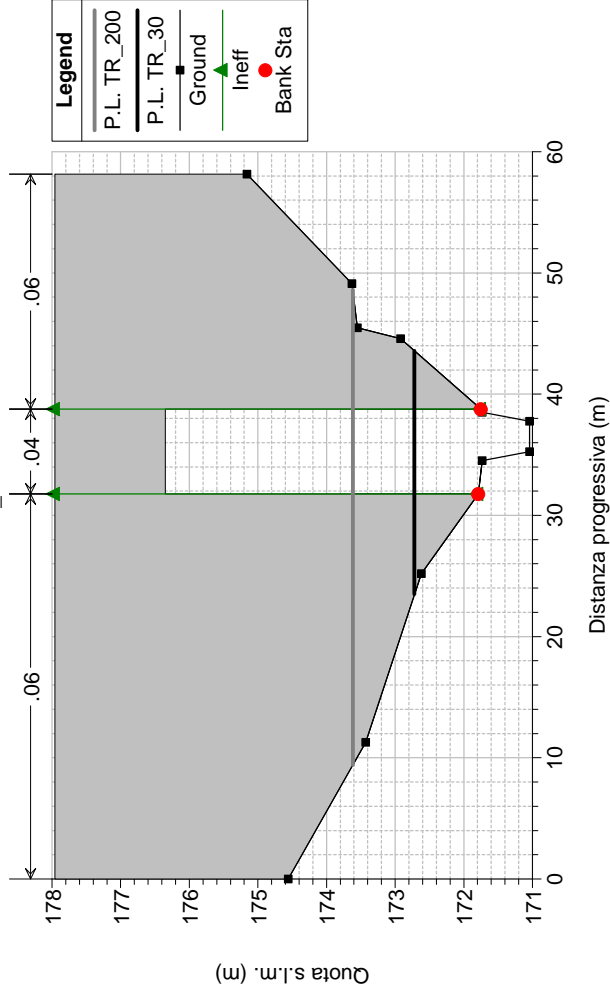
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 River = FOBDC Reach = FOBDC_01 RS = 156.96 BR SS0009/09



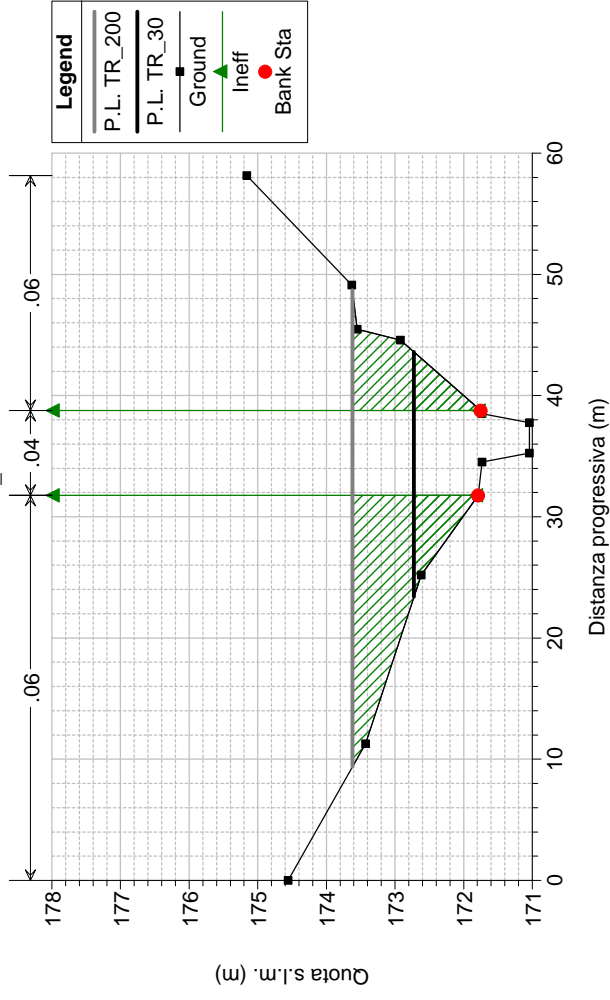
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 River = FOBDC Reach = FOBDC_01 RS = 154.58 S00008/09



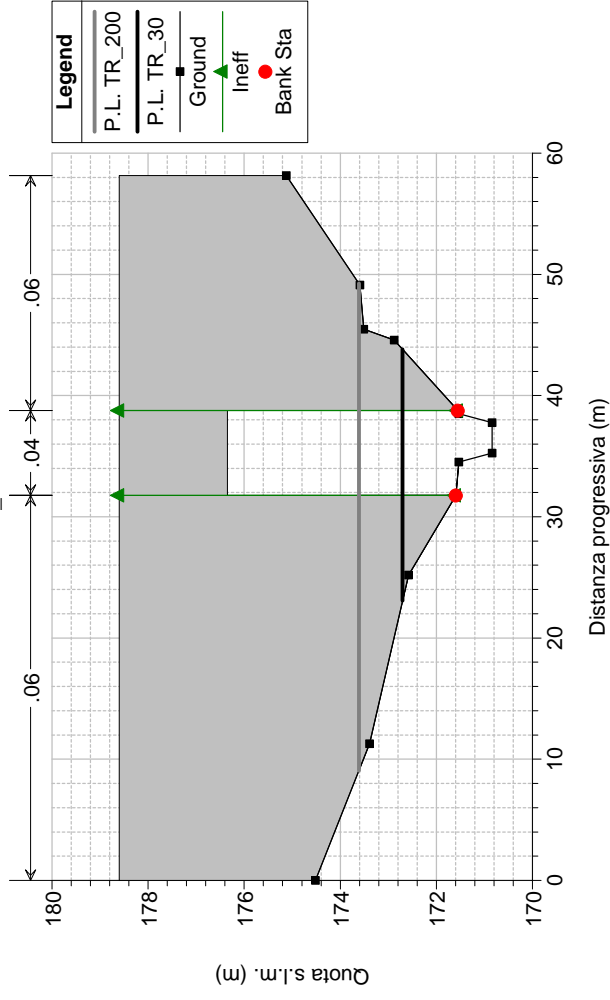
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 River = FOBDC Reach = FOBDC_01 RS = 142.45 BR SP0007/09



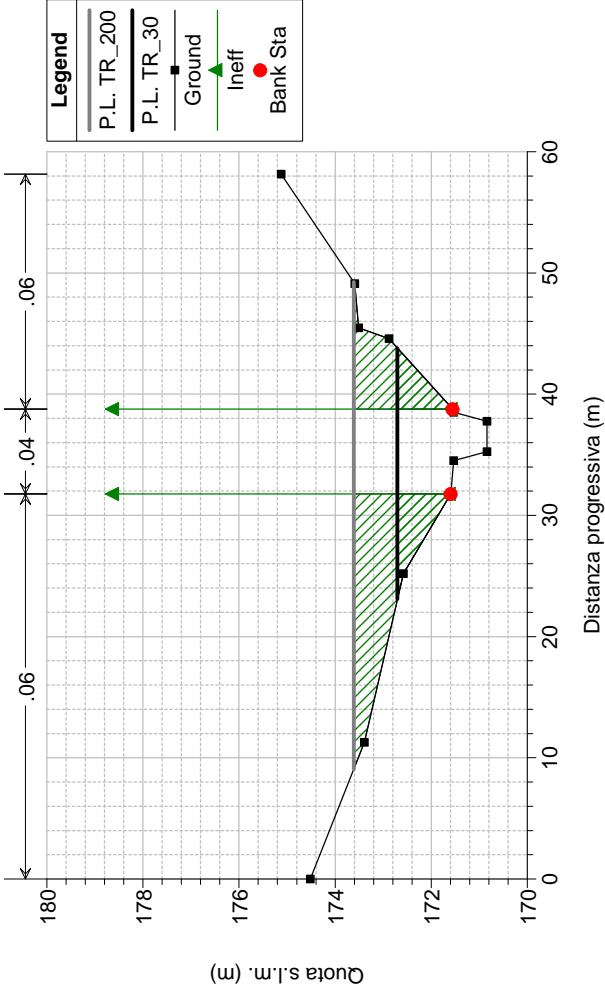
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 River = FOBDC Reach = FOBDC_01 RS = 150.21 D00007/09



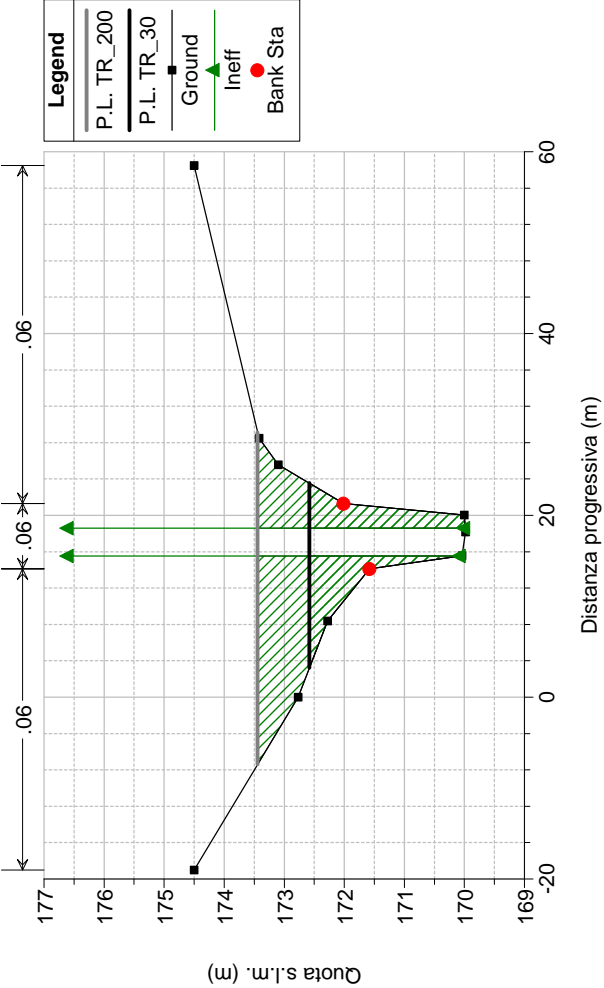
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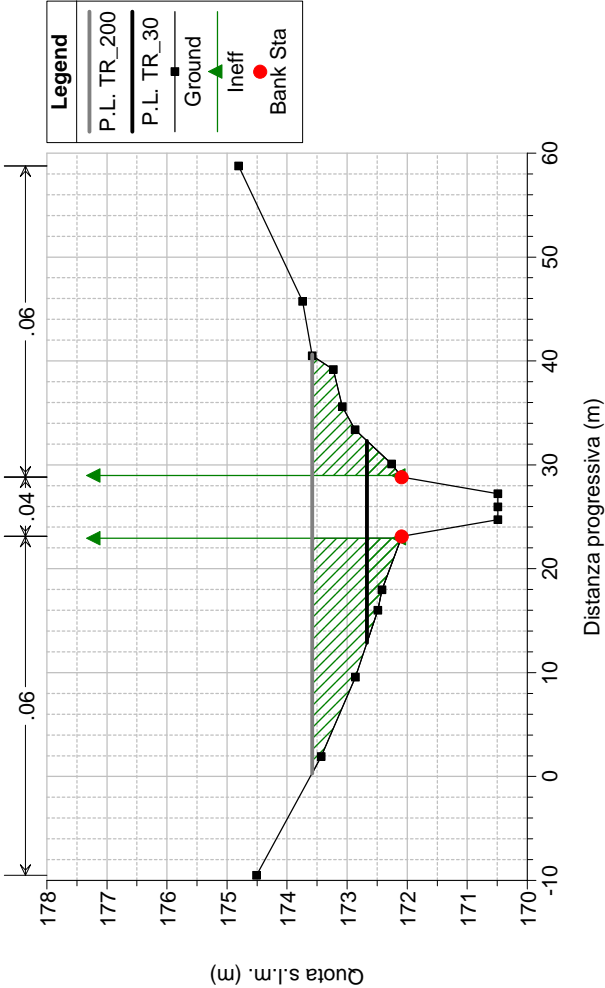
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 River = FOBDC Reach = FOBDC_01 RS = 133.69 D00007/09



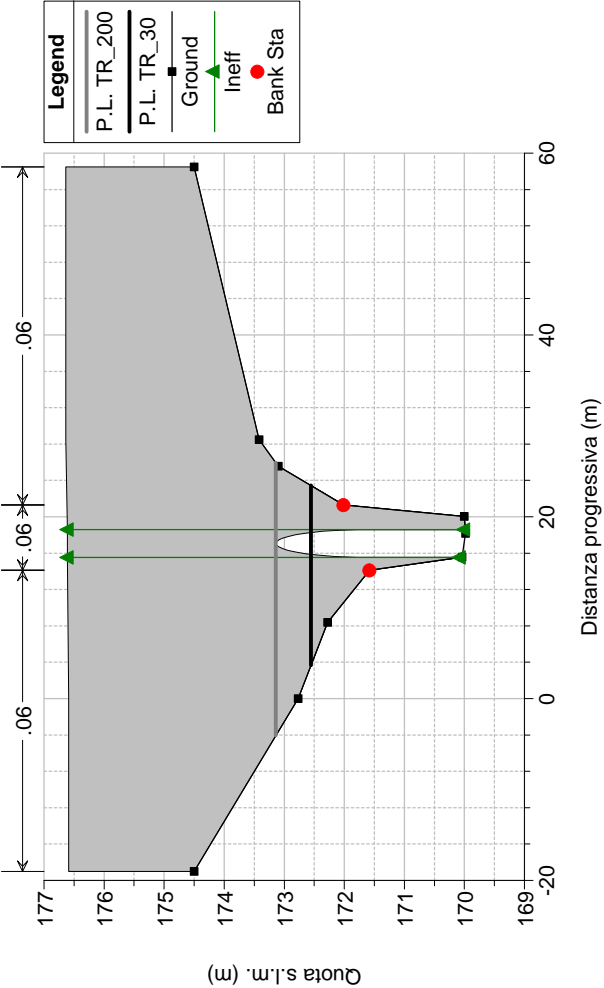
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 River = FOBDC Reach = FOBDC_01 RS = 98.92 S00006/09



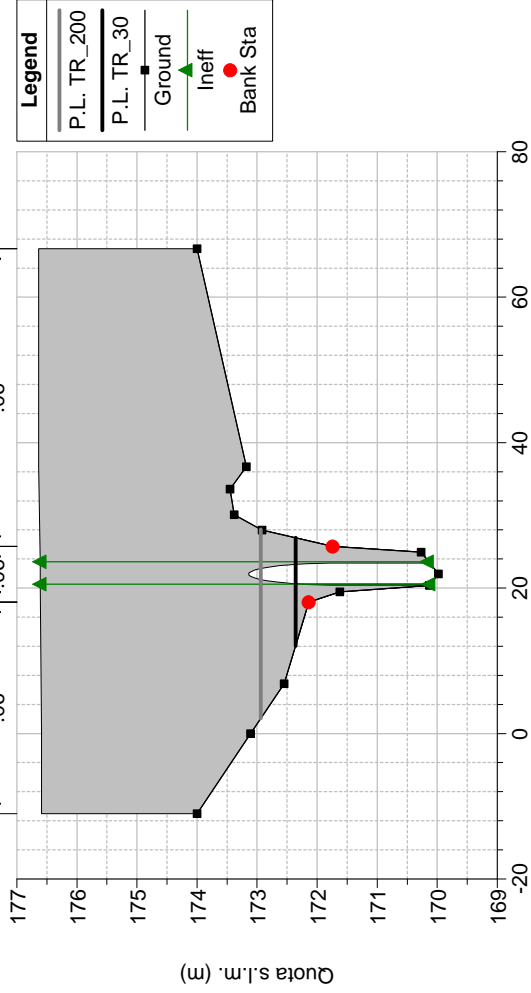
FOBDC Plan: FOBDC_SA_20_200Y_RU 26/11/2010
 River = FOBDC Reach = FOBDC_01 RS = 116.31 R00006/09



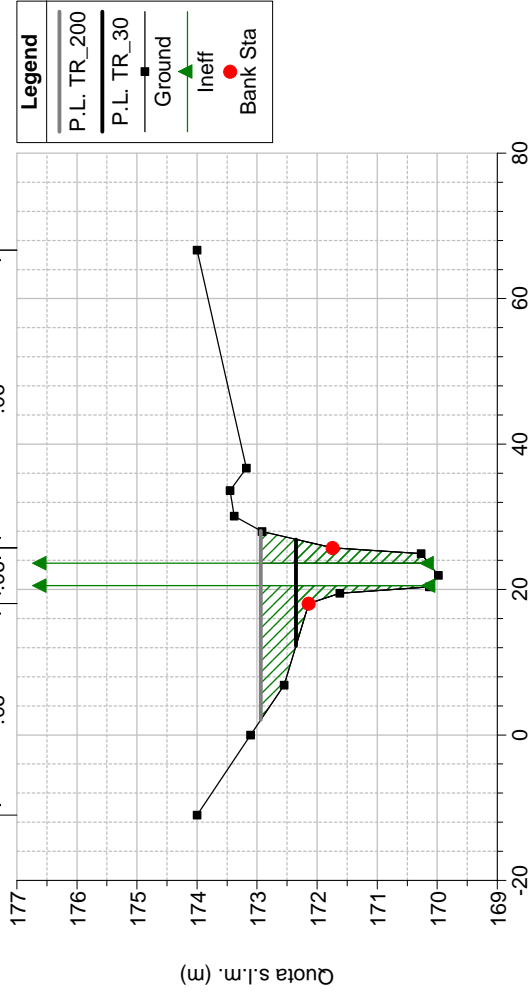
FOBDC Plan: FOBDC_SA_20_200Y_RU 26/11/2010
 River = FOBDC Reach = FOBDC_01 RS = 89.86 BR SS0004/09



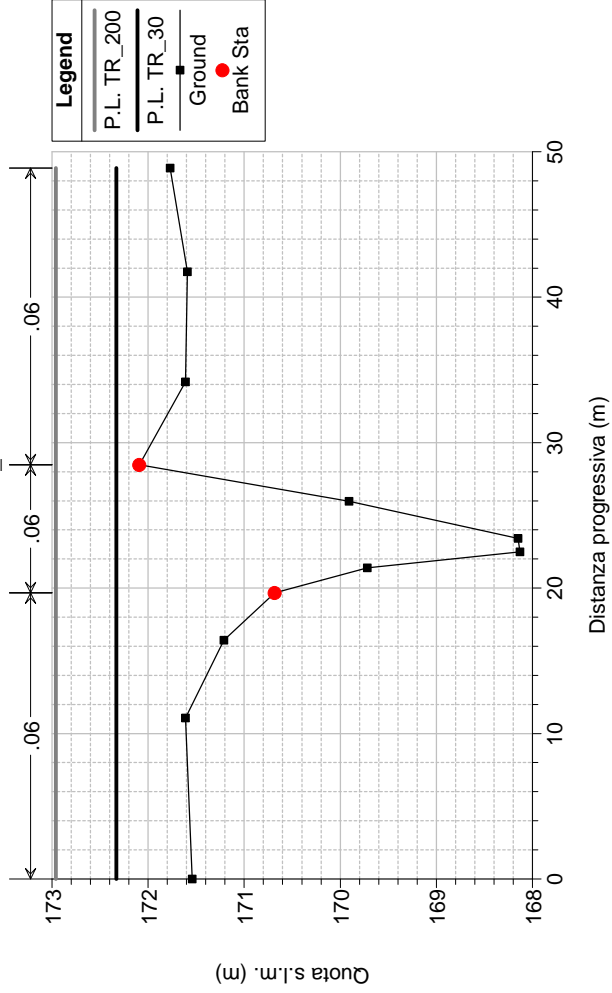
FOBDC Plan: FOBDC_SA_20_200Y_RU 26/11/2010
 River = FOBDC Reach = FOBDC_01 RS = 89.86 BR SS0004/09



FOBDC Plan: FOBDC_SA_20_200Y_RU 26/11/2010
 River = FOBDC Reach = FOBDC_01 RS = 80.80 S00002/09



FOBDC Plan: FOBDC_SA_20_200Y_RU 26/11/2010
 River = FOBDC Reach = FOBDC_01 RS = 0.00 S00001/09



FOBDC Plan: FOBDC_SA_20_200Y_RU 26/11/2010
 River = FOBDC Reach = FOBDC_01 RS = 80.80 S00002/09

