Autorità idrica pugliese

REGIONE PUGLIA

acquedotto pugliese
l'acqua, bene comune

Acquedotto Pugliese S.p.A. - 70121 Bari Via Cognetti, 36 - www.aqp.it - Telefono +39.080.5723111 C.F. e P.IVA 00347000721 REA C.C.I.A.A. di Bari n. 414092

CUP:E97B15000170005 PIANO DEGLI INTERVENTI
DELL'ACQUEDOTTO PUGLIESE S.p.A.
2016 - 2019

PROGETTO DEFINITIVO

ACQUEDOTTO DEL FORTORE, LOCONE ED OFANTO - OPERE DI INTERCONNESSIONE - II LOTTO: CONDOTTA DALL'OPERA DI DISCONNESSIONE DI CANOSA AL SERBATOIO DI FOGGIA

Il Responsabile del Procedimento
ing. Massimo Pellegrini

PROGETTAZIONE

Progettisti
ing. Rosario ESPOSITO (Responsabile del progetto)
ing. Tommaso DI LERNIA
ing. Michelangelo GUASTAMACCHIA
ing. M. Alessandro SALIOLA
geom. Giuseppe VALENTINO
ing. Roberto LAVOPA
geol. Fernando SBRANDOLINO
Collaborazione alla progettazione
geom. Pietro SIMONE
Il Responsabile Ingegneria di Progettazione
ing. Massimo PELLEGRINI

acquedotto pugliese
l'acqua, bene comune
Direzione Ingegneria

Il Direttore
ing. Andrea VOLPE

Elaborato	
G.5.1.2	*Profilo geologico della nuova condotta adduttrice principale da picc. 222 a picc. 394*

Codice Intervento P1292	*Codice SAP: 21/16650*	*Prot. N. 45215* *Data 14/07/2020*	*Scala:* *1:250/2500*

00	*OTT. 2020*	*Emesso per Progetto definitivo*	-	-	-
N. Rev.	Data	Descrizione	Disegnato	Controllato	Approvato

Materiale			
Diametro			
Pendenza livelletta (%)	.84	2.86	0.94

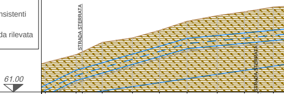
LEGENDA

- ▮ Vasca di arrivo / partenza
- ▮ Pozzetti
- ▮ Cloraziona
- ↑ Sfiati
- ↓ Scarichi
- P↓ Scarichi principali
- ⇅ Sfiato e Sezionamento
- ■ Attraversamento con spingitubo
- ▨ Protezione alveo
- ☐ Controtubo

1/ 250
1/ 2500

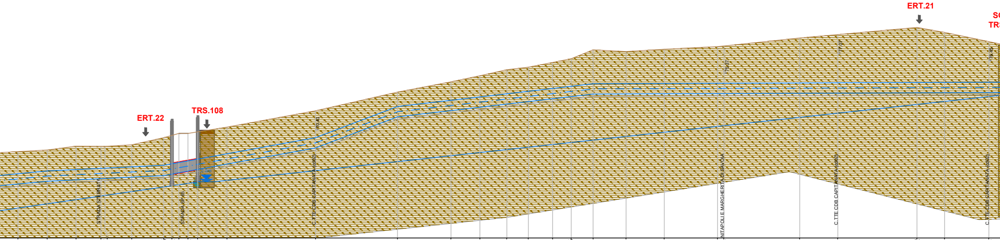
LITOLOGIA

- ▨ Alternanza di sabbie
- ▨ Limi sabbiosi o argille sabbiose
- ▨ Depositi ciottolosi
- ▨ Argille consistenti
- 0.0m ▽ Livello falda rilevata



Picchetti	222	223	223a	224	225	226	V227	V228	V229	229a	230	
Quota terreno	63.55	64.24	64.49	65.31	65.70	66.36	67.15	67.64	67.98	68.17	68.39	
Quote cielo condotta	61.58	62.89	63.04	63.54	64.30	64.97	65.66	65.91	66.13	66.25	66.37	
Quote Scorrimento	60.68	61.99	62.14	62.64	63.40	64.07	64.76	65.01	65.23	65.35	65.47	
Quote fondo scavo	60.48	61.79	61.94	62.44	63.20	63.87	64.56	64.81	65.03	65.15	65.27	
Altezza rinterro	1.97	1.35	1.45	1.77	1.40	1.39	1.49	1.73	1.85	1.92	2.02	
Profondita' di scavo	3.07	2.45	2.55	2.87	2.50	2.49	2.59	2.83	2.95	3.02	3.12	
Distanza parziale		26.90	5.41	17.44	26.54	23.50	24.22	26.30	23.83	11.88	13.42	24
Distanza progressiva	6580.82	6607.72	6613.14	6630.57	6657.11	6680.62	6704.84	6731.14	6754.97	6766.85	6780.27	
Distanze ettometriche		66					67					

	0.48	1.82	3.79	1.16	0.04


ERT.22
TRS.108
ERT.21
SC
TRS
STRADA STERRATA
STRADA SP 65
70.41
C.TTE CDB CAPITANATA (cd02)
75.37
NITAPOLI E MARGHERITA DI SAVOIA
77.07
C.TTE CDB CAPITANATA (cd02)
76.45
C.TTE CDB CAPITANATA (cd02)

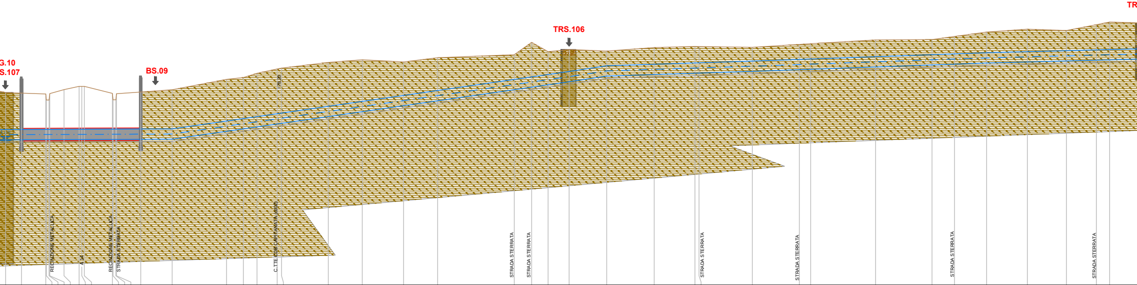
V231	V232	V233	233a	234	235	V236	236a	237	237a	237b	V238	V239	V240	V241	V242	V243	V244	V245	V246	V247	248	249	250	250a	251	251a	V252	253	253a	
68.54	68.68	69.02	69.00	69.00	69.13	69.76	69.96	70.13	70.13	70.27	70.68	72.11	73.74	74.64	75.17	75.69	75.92	76.33	76.66	77.43	77.28	77.48	77.71	77.77	78.47	78.77	79.39	78.95	78.15	
66.61	66.85	66.97	67.08	67.09	67.21	67.34	67.47	67.58	67.73	67.88	68.35	69.76	72.47	73.02	73.31	73.59	73.81	74.05	74.24	74.47	74.48	74.49	74.51	74.51	74.53	74.55	74.57	74.58	74.60	
65.71	65.95	66.07	66.18	66.19	66.31	66.44	66.57	66.68	66.83	66.98	67.45	68.86	71.57	72.12	72.41	72.69	72.91	73.15	73.34	73.57	73.58	73.59	73.61	73.61	73.63	73.65	73.67	73.68	73.70	
65.51	65.75	65.87	65.98	65.99	66.11	66.24	66.37	66.48	66.63	66.78	67.25	68.66	71.37	71.92	72.21	72.49	72.71	72.95	73.14	73.37	73.38	73.39	73.41	73.41	73.43	73.45	73.47	73.48	73.50	
1.93	1.83	2.05	1.92	1.91	1.92	2.42	2.49	2.55	2.40	2.39	2.33	2.35	1.27	1.62	1.86	2.10	2.11	2.28	2.42	2.96	2.80	2.99	3.21	3.26	3.94	4.22	4.81	4.37	3.55	
3.03	2.93	3.15	3.02	3.01	3.02	3.52	3.59	3.65	3.50	3.49	3.43	3.45	2.37	2.72	2.96	3.20	3.21	3.38	3.52	4.06	3.90	4.09	4.31	4.36	5.04	5.32	5.91	5.47	4.65	
4.94	25.68	25.21	21.82	3.49	23.54	28.00	7.15	6.10	7.90	8.54	25.67	77.57	71.75	46.85	25.32	23.56	18.87	21.33	16.21	19.21	28.87	33.41	46.70	5.65	66.32	33.32	69.36	24.24	38.66	14.76
6805.20	6830.89	6856.10	6877.92	6881.41	6904.95	6932.95	6940.11	6946.21	6954.11	6962.65	6988.31	7065.89	7137.64	7184.49	7209.81	7233.37	7252.23	7273.56	7289.77	7308.98	7337.84	7371.25	7417.95	7423.60	7489.92	7523.24	7592.60	7616.84	7655.50	

68 69 70 71 72 73 74 75 76

ACCIAIO

900 mm

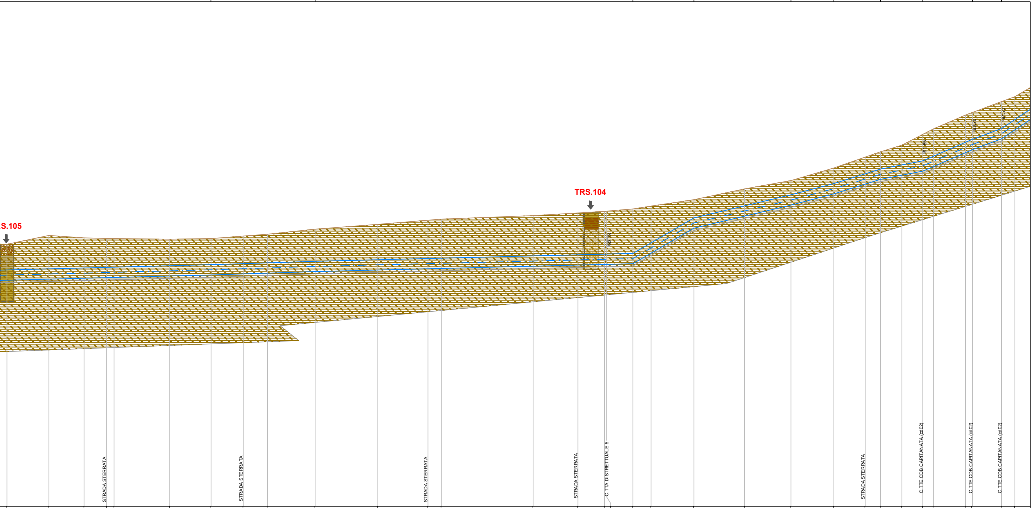
1.45	1.52	0.32	0.35



253b	77.84	74.60	73.70	73.50	3.24	4.34	13.85	7670.26
253c	77.79	74.61	73.71	73.51	3.18	4.28	21.25	7684.10
253d	77.72	74.62	73.72	73.52	3.10	4.20	0.56	7705.35
253e	77.18	74.62	73.72	73.52	2.57	3.67	2.40	7705.91
253f	77.18	74.62	73.72	73.52	2.57	3.67	0.61	7708.31
253g	77.75	74.62	73.72	73.52	3.13	4.23	12.51	7708.91
253h	78.09	74.62	73.72	73.52	3.47	4.57	13.16	7721.42
253i	78.38	74.63	73.73	73.53	3.76	4.86	2.31	7734.58
253j	78.38	74.63	73.73	73.53	3.75	4.85	2.31	7736.89
253k	78.38	74.63	73.73	73.53	3.75	4.85	24.54	7739.20
253l	77.77	74.64	73.74	73.54	3.13	4.23	0.59	7763.74
253m	77.21	74.64	73.74	73.54	2.57	3.67	2.40	7764.33
253n	77.21	74.64	73.74	73.54	2.57	3.67	0.55	7766.73
253o	77.74	74.64	73.74	73.54	3.10	4.20	21.25	7767.28
253p	77.89	74.65	73.75	73.55	3.24	4.34	27.55	7788.53
254	78.09	74.66	73.76	73.56	3.43	4.53	47.66	7816.07
255	78.99	75.35	74.45	74.25	3.65	4.75	14.65	7863.73
256	79.16	75.56	74.66	74.46	3.60	4.70	12.05	7878.38
257	79.53	75.73	74.83	74.63	3.79	4.89	17.66	7890.43
257a	79.90	75.99	75.09	74.89	3.91	5.01	3.74	7908.08
V258	79.98	76.04	75.14	74.94	3.94	5.04	40.98	7911.82
259	80.48	76.63	75.73	75.53	3.84	4.94	29.79	7952.80
260	80.71	77.07	76.17	75.97	3.64	4.74	36.19	7982.58
261	80.52	77.59	76.69	76.49	2.93	4.03	29.84	8018.77
262	80.89	78.02	77.12	76.92	2.87	3.97	67.12	8048.61
263	81.15	78.99	78.09	77.89	2.16	3.26	15.16	8115.73
263a	82.24	79.21	78.31	78.11	3.03	4.13	14.46	8130.90
V264	81.42	79.42	78.52	78.32	2.00	3.10	18.36	8145.36
V265	81.61	79.68	78.78	78.58	1.93	3.03	32.98	8163.72
266	81.47	80.19	79.29	79.09	1.28	2.38	41.59	8196.69
267	81.78	80.32	79.42	79.22	1.46	2.56	35.68	8238.28
268	81.88	80.43	79.53	79.33	1.45	2.55	3.59	8273.96
268a	81.87	80.45	79.55	79.35	1.42	2.52	46.61	[illegible]
269	81.80	80.60	79.70	79.50	1.20	2.30	41.23	8324.15
269a	82.06	80.74	79.84	79.64	1.32	2.42	9.88	8365.39
270	82.12	80.78	79.88	79.68	1.34	2.44	56.87	8375.27
271	82.45	80.98	80.08	79.88	1.47	2.57	49.37	8432.13
272	82.48	81.15	80.25	80.05	1.33	2.43	19.69	8481.50
272a	82.75	81.22	80.32	80.12	1.53	2.63	28.13	8501.20
273	83.13	81.32	80.42	80.22	1.81	2.91	35.72	8529.32
274	83.39	81.42	80.52	80.32	1.97	3.07	34.19	8565.04
275	83.27	81.50	80.60	80.40	1.77	2.87	26.29	8599.23
275a	83.78	81.57	80.67	80.47	2.21	3.31	11.60	8625.52
276	84.01	81.60	80.70	80.50	2.41	3.51	29.84	8637.12

77	78	79	80	81	82	83	84	85	86

0.26	0.32	0.25	5.83	2.37	2.61	3.12	1.95	4.32	3.72	6.



277	278	279	279a	280	281	282	282a	283	284	285	285a	286	287	287a	288
83.93	84.70	84.49	84.44	84.43	84.37	84.43	84.65	84.81	85.25	85.67	86.03	86.13	86.44	86.67	86.81
81.68	81.78	81.85	81.91	81.92	82.05	82.14	82.23	82.30	82.44	82.57	82.68	82.71	82.91	83.01	83.06
80.78	80.88	80.95	81.01	81.02	81.15	81.24	81.33	81.40	81.54	81.67	81.78	81.81	82.01	82.11	82.16
80.58	80.68	80.75	80.81	80.82	80.95	81.04	81.13	81.20	81.34	81.47	81.58	81.61	81.81	81.91	81.96
2.25	2.92	2.64	2.53	2.51	2.32	2.29	2.42	2.51	2.81	3.10	3.35	3.42	3.53	3.66	3.75
3.35	4.02	3.74	3.63	3.61	3.42	3.39	3.52	3.61	3.91	4.20	4.45	4.52	4.63	4.76	4.85
8666.96	8703.72	8734.52	8754.27	8760.76	8809.50	8845.64	8873.87	8894.98	8936.77	8991.77	9035.63	9047.28	9127.75	9167.04	9190.27

288a	V289	290	291	292	293	294	294a	295	296	296a	297	V298	298a	298b	V299
86.83	87.02	87.27	87.83	88.78	89.51	90.61	91.56	92.02	92.61	93.55	94.02	95.24	95.46	96.41	96.85
83.07	83.13	84.05	86.24	87.29	88.26	89.24	90.09	90.51	90.88	91.24	91.64	92.85	93.11	94.06	94.84
82.17	82.23	83.15	85.34	86.39	87.36	88.34	89.19	89.61	89.98	90.34	90.74	91.95	92.21	93.16	93.94
81.97	82.03	82.95	85.14	86.19	87.16	88.14	88.99	89.41	89.78	90.14	90.54	91.75	92.01	92.96	93.74
3.76	3.89	3.22	1.59	1.49	1.25	1.37	1.47	1.51	1.73	2.31	2.38	2.39	2.35	2.35	2.01
4.86	4.99	4.32	2.69	2.59	2.35	2.47	2.57	2.61	2.83	3.41	3.48	3.49	3.45	3.45	3.11
9192.15	9215.14	9231.04	9268.54	9312.96	9353.60	9391.17	9418.58	9431.98	9450.75	9468.99	9478.25	9506.44	9512.40	9537.96	9549.65

36.76	30.80	19.75	6.50	48.74	36.15	28.22	21.12	41.78	55.00	43.86	11.66	80.47	39.28	23.23	1.88
23.00	15.89	37.50	44.41	40.64	37.57	27.40	13.40	18.78	18.24	9.26	28.19	5.96	25.56	11.69	4

87	88	89	90	91	92	93	94	95

Materiale											
Diametro											
Pendenza livelletta (%)	6.69	3.88	2.24	3.49	3.68	2.01	1.83	0.03	1.28	3.21	3.66

LEGENDA

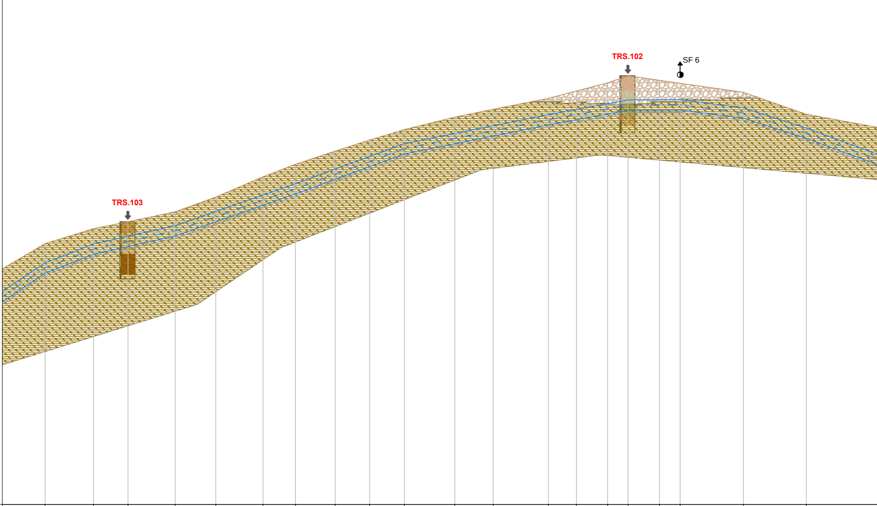
- ▮ Vasca di arrivo / partenza
- ▮ Pozzetti
- ▮ Clorazione
- Sfiati
- Scarichi
- Scarichi principali
- Sfiato e Sezionamento
- ▬ Attraversamento con spingitubo
- ▭ Protezione alveo
- ▭ Controtubo

1/ 250

1/ 2500

LITOLOGIA

- ▨ Alternanza di sabbie
- ▨ Limi sabbiosi o argille sabbiose
- ▨ Depositi ciottolosi
- ▨ Argille consistenti
- 0.0m Livello falda rilevata



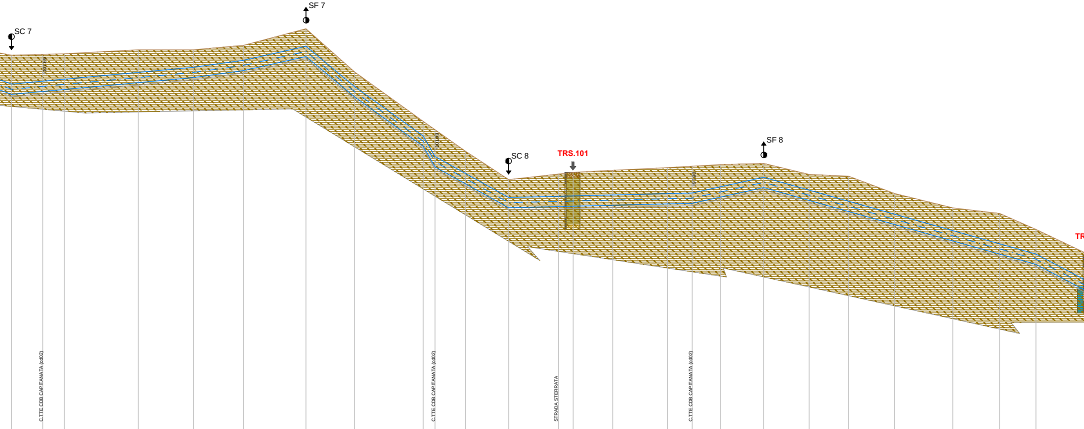
76.50

Picchetti	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	V315	316	317	318	319
Quota terreno	99.32	100.63	101.23	102.11	103.39	105.16	106.26	107.41	108.38	109.29	110.38	111.07	112.02	112.66	113.38	114.00	113.60	113.34	112.55	110.64
Quote cielo condotta	97.64	99.29	99.96	100.89	102.13	103.57	104.56	105.84	106.95	108.07	108.96	109.64	110.61	111.06	111.56	111.89	111.90	111.91	111.20	109.42
Quote Scorrimento	96.74	98.39	99.06	99.99	101.23	102.67	103.66	104.94	106.05	107.17	108.06	108.74	109.71	110.16	110.66	110.99	111.00	111.01	110.30	108.52
Quote fondo scavo	96.54	98.19	98.86	99.79	101.03	102.47	103.46	104.74	105.85	106.97	107.86	108.54	109.51	109.96	110.46	110.79	110.80	110.81	110.10	108.32
Altezza rinterro	1.68	1.34	1.27	1.22	1.26	1.59	1.70	1.57	1.43	1.22	1.42	1.43	1.41	1.60	1.82	2.11	1.71	1.44	1.35	1.22
Profondita' di scavo	2.78	2.44	2.37	2.32	2.36	2.69	2.80	2.67	2.53	2.32	2.52	2.53	2.51	2.70	2.92	3.21	2.81	2.54	2.45	2.32
Distanza progressiva	9591.51	9633.90	9664.13	9705.44	9741.00	9782.40	9810.70	9845.52	9875.81	9906.13	9950.30	9983.95	10032.31	10056.93	10084.24	10102.07	10129.63	10147.72	10203.06	10258.18

Distanza parziale	41.86	42.39	30.24	41.31	35.56	41.40	28.29	34.82	30.29	30.32	44.17	33.65	48.36	24.62	27.31	17.83	27.56	18.08	55.35	55.12	72.10

Distanze ettometriche	96	97	98	99	100	101	102	103

0.92	1.41	2.24	8.27	7.21	17.40	5.54	0.24	2.19	2.82	5.26


SC 7
SF 7
SC 8
TRS.101
SF 8
TR
C.TTE CDB CAPITANATA (cd02)
C.TTE CDB CAPITANATA (cd02)
STRADA STERRATA
C.TTE CDB CAPITANATA (cd02)

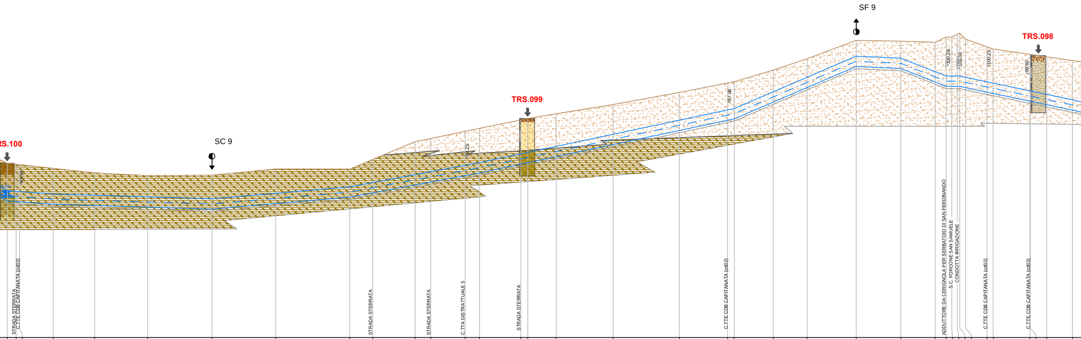
320	109.31	106.78	105.88	105.68	2.53	3.63	27.30	10330.28
320a	109.39	107.03	106.13	105.93	2.35	3.45	18.86	10357.58
321	109.44	107.21	106.31	106.11	2.23	3.33	64.76	10376.44
322	109.79	107.81	106.91	106.71	1.98	3.08	48.27	10441.20
323	109.79	108.25	107.35	107.15	1.54	2.64	43.97	10489.48
324	110.18	108.87	107.97	107.77	1.31	2.41	54.62	10533.44
325	111.63	110.09	109.19	108.99	1.53	2.63	42.69	10588.06
326	107.84	106.56	105.66	105.46	1.28	2.38	59.95	10630.75
327	103.52	102.24	101.34	101.14	1.28	2.38	10.35	10690.70
327a	102.79	100.44	99.54	99.34	2.35	3.45	26.83	10701.05
328	100.90	98.95	98.05	97.85	1.95	3.05	37.77	10727.88
329	98.42	96.86	95.96	95.76	1.56	2.66	43.44	10765.65
329a	98.91	96.97	96.07	95.87	1.94	3.04	12.93	10809.09
330	99.06	97.00	96.10	95.90	2.06	3.16	34.70	10822.02
331	99.24	97.08	96.18	95.98	2.16	3.26	47.94	10856.73
332	99.47	97.20	96.30	96.10	2.27	3.37	21.63	10904.66
332a	99.60	97.25	96.35	96.15	2.35	3.45	24.70	10926.29
333	99.74	97.79	96.89	96.69	1.95	3.05	37.98	10950.99
334	99.84	98.62	97.72	97.52	1.22	2.32	39.79	10988.97
335	98.88	97.50	96.60	96.40	1.38	2.48	34.58	11028.76
336	98.72	96.53	95.63	95.43	2.19	3.29	40.22	11063.34
337	97.21	95.39	94.49	94.29	1.82	2.92	50.97	11103.55
338	95.95	93.96	93.06	92.86	1.99	3.09	41.12	11154.53
339	95.46	92.80	91.90	91.70	2.66	3.76	31.74	11195.65
340	94.06	91.90	91.00	90.80	2.16	3.26	48.46	11227.39

104 105 106 107 108 109 110 111 112

ACCIAIO

900 mm

0.72	0.30	0.86	1.87	2.12	4.30	0.46	3.92	0.11	2.10

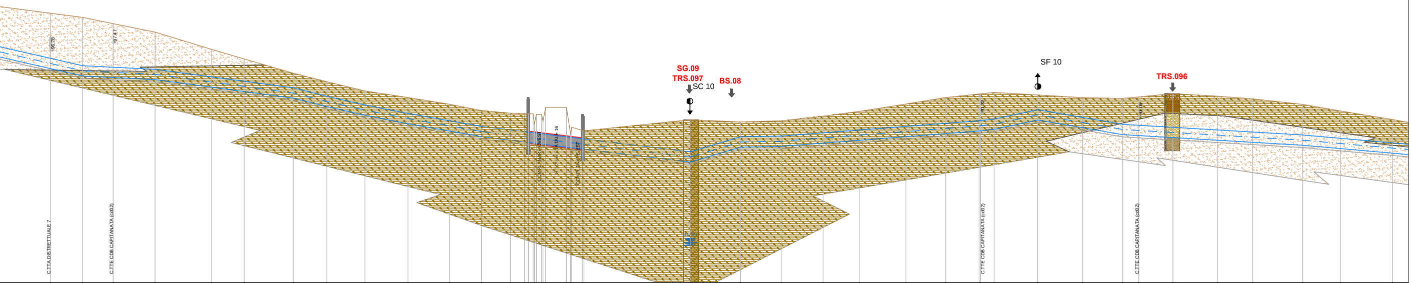


S.100
SC 9
TRS.099
SF 9
TRS.098
STRADA STERRATA
C.TTE CDB CAPITANATA (cd02)
STRADA STERRATA
STRADA STERRATA
C.TTA DISTRATTUALE 5
STRADA STERRATA
C.TTE CDB CAPITANATA (cd02)
ADDUTTORE DA CERIGNOLA PER SERBATOIO DI SAN FERDINANDO
S.C. FORCONE SAN SAMUELE
CONDOTTA IRRIGAZIONE
C.TTE CDB CAPITANATA (cd02)
C.TTE CDB CAPITANATA (cd02)

341	91.76	89.36	88.46	88.26	2.40	3.50		11275.84
341a	91.67	89.30	88.40	88.20	2.37	3.47	7.74	11283.58
341b	91.64	89.28	88.38	88.18	2.36	3.46	3.05	11286.63
342	91.31	89.07	88.17	87.97	2.24	3.34	29.49	11316.11
343	90.92	88.96	88.06	87.86	1.96	3.06	36.19	11352.30
344	90.68	88.82	87.92	87.72	1.86	2.96	46.37	11398.68
345	90.72	88.65	87.75	87.55	2.07	3.17	56.43	11455.11
346	91.26	89.13	88.23	88.03	2.13	3.23	55.84	11510.94
347	91.25	89.69	88.79	88.59	1.56	2.66	64.75	11575.70
347a	92.09	90.06	89.16	88.96	2.03	3.13	20.04	11595.73
348	93.65	90.76	89.86	89.66	2.89	3.99	37.09	11632.82
348a	93.93	91.02	90.12	89.92	2.91	4.01	13.79	11646.61
348b	94.55	91.58	90.68	90.48	2.97	4.07	30.01	11676.62
349	94.81	91.81	90.91	90.71	3.00	4.10	12.56	11689.18
349a	95.55	92.58	91.68	91.48	2.97	4.07	36.24	11725.42
350	95.67	92.71	91.81	91.61	2.96	4.06	6.02	11731.45
351	96.09	93.24	92.34	92.14	2.85	3.95	24.89	11756.33
352	96.90	94.30	93.40	93.20	2.60	3.70	49.84	11806.18
353	97.96	95.53	94.63	94.43	2.43	3.53	57.98	11864.16
353a	98.78	96.42	95.52	95.32	2.36	3.46	42.23	11906.39
V354	98.90	96.55	95.65	95.45	2.35	3.45	5.89	11912.28
355	99.92	98.02	97.12	96.92	1.90	3.00	34.13	11946.42
356	100.91	99.29	98.39	98.19	1.62	2.72	29.60	11976.02
357	102.52	101.13	100.23	100.03	1.39	2.49	42.98	12019.00
358	102.45	100.95	100.05	99.85	1.50	2.60	39.07	12058.06
359	102.35	99.78	98.88	98.68	2.57	3.67	30.03	12088.09
359a	102.80	99.40	98.50	98.30	3.40	4.50	9.63	12097.72
359b	102.80	99.39	98.49	98.29	3.41	4.51	4.85	12102.57
359c	103.05	99.39	98.49	98.29	3.66	4.76	4.95	12107.52
360	103.15	99.38	98.48	98.28	3.77	4.87	2.10	12109.62
361	102.62	99.28	98.38	98.18	3.34	4.44	5.17	12114.79
361a	101.95	98.88	97.98	97.78	3.07	4.17	18.73	12133.52
362	101.76	98.77	97.87	97.67	2.99	4.09	5.32	12138.84
363	101.30	98.10	97.20	97.00	3.20	4.30	32.18	12171.02
363a	101.29	98.09	97.19	96.99	3.20	4.30	0.35	12171.37
363b	101.08	97.79	96.89	96.69	3.29	4.39	14.46	12185.83
364	100.75	97.32	96.42	96.22	3.43	4.53	22.41	12208.24

113 114 115 116 117 118 119 120 121 122

2.29	0.50	1.34	2.52	2.27	1.96	1.76	5.98	0.50	2.97	0.18	0.78	1.12	2.14	1.73	0.60



364a	100.08	96.13	95.23	95.03	3.95	5.05	12259.95
365	99.71	95.48	94.58	94.38	4.23	5.33	12288.16
365a	99.17	95.35	94.45	94.25	3.82	4.92	12314.78
366	98.42	95.17	94.27	94.07	3.25	4.35	12351.48
367	96.91	94.50	93.60	93.40	2.41	3.51	12401.09
368	96.07	94.12	93.22	93.02	1.95	3.05	12429.46
369	94.83	93.54	92.64	92.44	1.29	2.39	12472.53
370	94.08	92.80	91.90	91.70	1.28	2.38	12501.85
371	93.27	92.04	91.14	90.94	1.23	2.33	12535.26
372	92.70	91.31	90.41	90.21	1.39	2.49	12572.92
373	92.10	90.66	89.76	89.56	1.44	2.54	12609.41
374	91.56	90.17	89.27	89.07	1.39	2.49	12637.36
375	91.32	89.86	88.96	88.76	1.46	2.56	12662.67
V376	91.31	89.70	88.80	88.60	1.60	2.70	12675.07
376a	91.29	89.66	88.76	88.56	1.63	2.73	12678.28
376b	91.28	89.61	88.71	88.51	1.66	2.76	12682.49
376c	90.38	89.60	88.70	88.50	0.78	1.88	12683.66
376d	91.22	89.58	88.68	88.48	1.64	2.74	12685.39
376e	91.22	89.52	88.62	88.42	1.70	2.80	12689.93
376f	90.61	89.51	88.61	88.41	1.11	2.21	12691.10
376g	91.84	89.48	88.58	88.38	2.36	3.46	12693.45
376h	91.84	89.25	88.35	88.15	2.59	3.69	12711.70
376i	89.53	89.21	88.31	88.11	0.33	1.43	12715.24
376l	90.09	89.19	88.29	88.09	0.90	2.00	12716.33
376m	89.80	89.07	88.17	87.97	0.73	1.83	12725.99
V377	89.77	89.06	88.16	87.96	0.71	1.81	12727.03
V378	90.75	87.95	87.05	86.85	2.80	3.90	12819.94
379	90.56	89.25	88.35	88.15	1.31	2.41	12863.98
380	90.66	89.32	88.42	88.22	1.34	2.44	12899.60
381	91.06	89.60	88.70	88.50	1.46	2.56	12936.29
382	91.48	89.85	88.95	88.75	1.63	2.73	12967.95
383	92.13	90.17	89.27	89.07	1.96	3.06	13008.93
384	92.70	90.44	89.54	89.34	2.26	3.36	13043.74
384a	93.00	90.67	89.77	89.57	2.33	3.43	13072.97
384b	93.02	90.68	89.78	89.58	2.33	3.43	13074.28
385	93.14	90.82	89.92	89.72	2.32	3.42	13086.06
386	92.92	91.63	90.73	90.53	1.29	2.39	13124.34
387	92.69	90.96	90.06	89.86	1.73	2.83	13163.64
388	92.61	90.35	89.45	89.25	2.26	3.36	13198.69
388a	92.75	90.27	89.37	89.17	2.48	3.58	13212.73
389	93.04	90.09	89.19	88.99	2.95	4.05	13242.57
390	92.81	89.86	88.96	88.76	2.95	4.05	13281.47
391	92.58	89.67	88.77	88.57	2.91	4.01	13312.46
392	92.09	89.41	88.51	88.31	2.68	3.78	13356.25
393	91.52	89.12	88.22	88.02	2.40	3.50	13389.14
394	90.77	88.72	87.82	87.62	2.05	3.15	13434.79

51.71	28.21	26.62	36.70	49.61	28.37	43.07	29.32	33.41	37.66	36.49	27.95	25.31	12.40	3.21	4.21	1.16	1.69	4.58	1.16	2.35	18.25	3.54	1.10	9.66	1.04	92.90	44.05	35.61	36.69	31.66	40.98	34.81	29.24	1.31	11.78	38.28	39.30	35.05	14.05	29.84	38.89	30.99	43.79	32.89	45.65

123 124 125 126 127 128 129 130 131 132 133 134