Consorzio di Bonifica
PIANURA DI FERRARA

CONSORZIO DI BONIFICA PIANURA DI FERRARA

Sede legale e recapito postale:
44121 Ferrara - Via Borgo dei Leoni, 28 - C.F. 93076450381
web: www.bonificaferrara.it - e-mail: info@bonificaferrara.it
pec: posta.certificata@pec.bonificaferrara.it
aderente all'ANBI
Associazione Nazionale Bonifiche, Irrigazioni e Miglioramenti Fondiari

PROGETTO ESPURGHI

PROGETTO ESECUTIVO

Provincia di Ferrara

Ricalibratura della rete di bonifica ai fini del recupero della capacità di invaso e di portata

2° STRALCIO

ELABORATI GRAFICI CANALI

CANALE BULGARELLO

SEZIONI TRASVERSALI DALLA 32 ALLA 44F

Data: **03.09.2024**

Elab.: **7.5.7**

IL PROGETTISTA
(Dott. Ing. Laura Montanari)

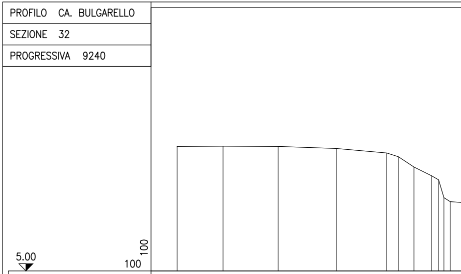
ORDINE INGEGNERI PROV. BOLOGNA
INGEGNERE
LAURA MONTANARI
LAUREA SPECIALISTICA
Sezione: A
N° 7792 / A
Settori civile ambientale, industriale, dell'informazione

IL RESPONSABILE UNICO DEL PROGETTO
(Dott. Ing. Valeria Chierici)

Valeria Chierici

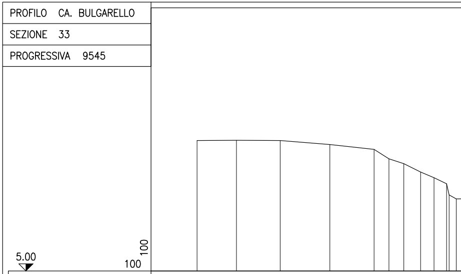
Rev.	Descrizione	Redatto	Data	Codice Intervento
00	Emissione	Mazzanti C.	03.09.2024	OC168

PROFILO	CA. BULGARELLO
SEZIONE	32
PROGRESSIVA	9240



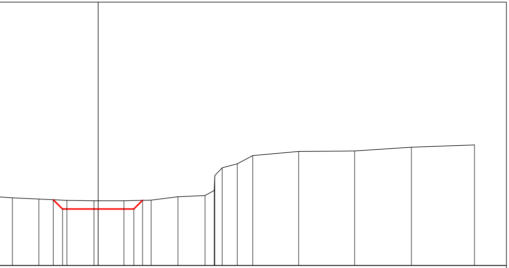
QUOTE TERRENO	9.35	9.36	9.35	9.28	9.12	8.99	8.63	8.32	8.18	7.56	7.42
PROGRESSIVE TERRENO	−13.39	−11.78	−9.85	−7.81	−6.05	−5.64	−5.09	−4.47	−4.23	−4.04	−3.82
QUOTE PROGETTO											
PROGRESSIVE PROGETTO											

PROFILO	CA. BULGARELLO
SEZIONE	33
PROGRESSIVA	9545



QUOTE TERRENO	9.56	9.57	9.56	9.42	9.25	8.92	8.75	8.46	8.26	8.05	7.66	7.52
PROGRESSIVE TERRENO	−12.69	−11.31	−9.78	−8.04	−6.49	−5.97	−5.45	−4.86	−4.39	−3.95	−3.86	−3.61
QUOTE PROGETTO												
PROGRESSIVE PROGETTO												

Esecuzione e restituzione grafica rilievo: ASTOLFI N.



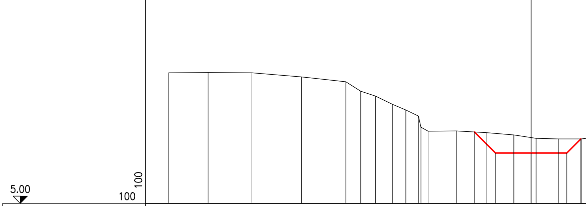
7.36	7.32	7.27	7.26	7.26	7.28	7.40	7.44	7.62	8.14	8.41	8.55	8.84	8.98	9.00	9.13	9.21
−3.01	−2.08	−1.10	−0.15	0.90	1.85	2.79	3.74	4.06	4.08	4.34	4.87	5.41	7.02	8.98	10.97	13.18

7.29	6.97	6.97	6.97	7.27
−1.57	−1.25	0.00	1.25	1.55

PROFILO CA. BULGARELLO

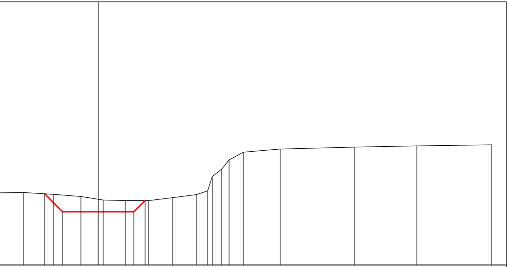
SEZIONE 33F

PROGRESSIVA 9798



QUOTE TERRENO	9.56	9.57	9.56	9.42	9.25	8.92	8.75	8.46	8.26	8.05	7.66	7.52	7.53	7.47	7.39	7.27	7.25	7.25
PROGRESSIVE TERRENO	−12.69	−11.31	−9.78	−8.04	−6.49	−5.97	−5.45	−4.86	−4.39	−3.95	−3.86	−3.61	−2.62	−1.58	−0.61	0.17	0.95	1.75

QUOTE PROGETTO	7.49	6.76	6.76	6.76	7.25
PROGRESSIVE PROGETTO	−1.98	−1.25	0.00	1.25	1.74



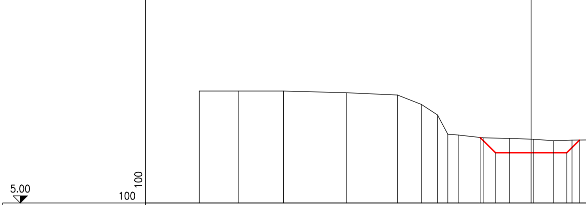
7.53	7.47	7.39	7.27	7.25	7.25	7.35	7.46	7.59	8.09	8.35	8.67	8.94	9.05	9.12	9.16	9.20
−2.62	−1.58	−0.61	0.17	0.95	1.75	2.59	3.44	3.83	3.99	4.32	4.58	5.08	6.37	8.97	11.16	13.78

7.49	6.86	6.86	6.86	7.25
−1.88	−1.25	0.00	1.25	1.64

PROFILO CA. BULGARELLO

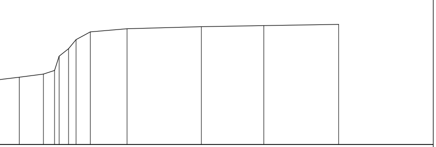
SEZIONE 34F

PROGRESSIVA 9802



QUOTE TERRENO	8.92	8.92	8.92	8.86	8.78	8.45	8.08	7.41	7.38	7.28	7.26	7.23	7.18	7.20
PROGRESSIVE TERRENO	−11.62	−10.24	−8.67	−6.47	−4.68	−3.84	−3.28	−2.92	−2.55	−1.68	−0.75	0.08	0.79	1.43

QUOTE PROGETTO	7.29	6.76	6.76	6.76	7.20
PROGRESSIVE PROGETTO	−1.78	−1.25	0.00	1.25	1.69

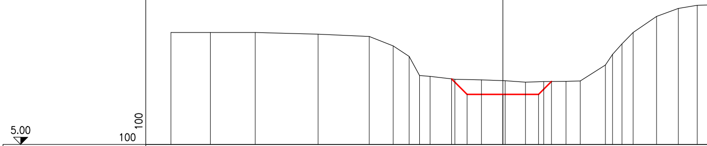


	7.35	7.46	7.59	8.09	8.35	8.67	8.94	9.05	9.12	9.16	9.20
	2.59	3.44	3.83	3.99	4.32	4.58	5.08	6.37	8.97	11.16	13.78

PROFILO CA. BULGARELLO

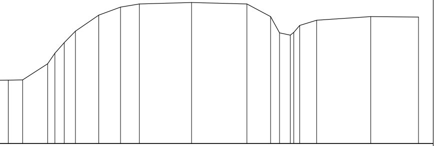
SEZIONE 34

PROGRESSIVA 9881



QUOTE TERRENO	8.92	8.92	8.92	8.86	8.78	8.45	8.08	7.41	7.38	7.28	7.26	7.23	7.18	7.20	7.21	7.22	7.78	8.15	8.52	8.92	9.48	9.76	9.87
PROGRESSIVE TERRENO	-11.62	-10.24	-8.67	-6.47	-4.68	-3.84	-3.28	-2.92	-2.55	-1.68	-0.75	0.08	0.79	1.43	2.21	2.71	3.59	3.84	4.17	4.56	5.38	6.14	6.80

QUOTE PROGETTO	7.29	6.75	6.75	6.75	7.20
PROGRESSIVE PROGETTO	-1.79	-1.25	0.00	1.25	1.70

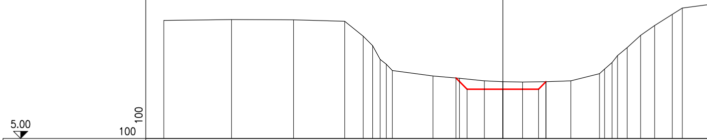


	7.21	7.22	7.78	8.15	8.52	8.92	9.48	9.76	9.87	9.92	9.87	9.43	8.86	8.78	8.88	9.12	9.30	9.43	9.41
	2.21	2.71	3.59	3.84	4.17	4.56	5.38	6.14	6.80	8.63	10.57	11.40	11.71	12.09	12.21	12.42	13.01	14.91	16.58

PROFILO CA. BULGARELLO

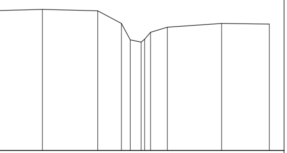
SEZIONE 35

PROGRESSIVA 10131

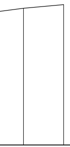


QUOTE TERRENO	9.12	9.15	9.14	9.09	8.57	8.24	7.76	7.59	7.37	7.18	7.10	7.01	6.98	6.97	6.98	7.01	7.26	7.42	7.65	7.89	8.17	8.60	8.94	9.33	9.55
PROGRESSIVE TERRENO	-11.87	-9.50	-7.33	-5.54	-4.89	-4.56	-4.30	-4.08	-3.87	-2.45	-1.52	-0.65	0.00	0.69	1.51	2.38	3.38	3.56	3.82	4.01	4.35	4.82	5.31	5.93	6.28

QUOTE PROGETTO	7.11	6.72	6.72	6.72	6.98
PROGRESSIVE PROGETTO	-1.64	-1.25	0.00	1.25	1.51



	9.92	9.87	9.43	8.86	8.78	8.88	9.12	9.30	9.43	9.41
	8.63	10.57	11.40	11.71	12.09	12.21	12.42	13.01	14.91	16.58

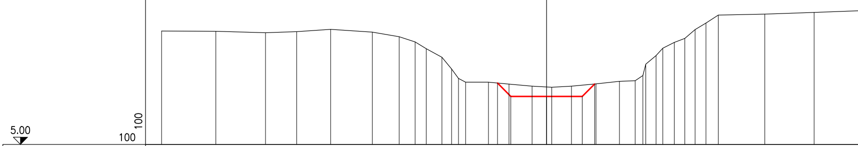


	9.77	9.90
	7.96	9.36

PROFILO CA. BULGARELLO

SEZIONE 36

PROGRESSIVA 10421



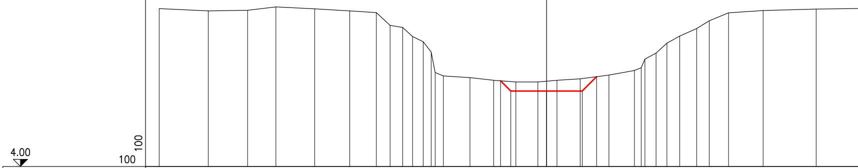
QUOTE TERRENO	8.97	8.96	8.91	8.95	9.03	8.93	8.77	8.59	8.35	8.05	7.64	7.31	7.18	7.18	7.11	7.04	7.00	7.04	7.12	7.21	7.23	7.41	7.81	8.11	8.37	8.57	8.71	9.02	9.25	9.53	9.56	9.62
PROGRESSIVE TERRENO	−13.49	−11.59	−9.85	−8.75	−7.56	−6.11	−5.17	−4.61	−4.22	−3.67	−3.32	−3.09	−2.84	−2.03	−1.31	−0.50	0.19	0.88	1.74	2.55	3.10	3.38	3.48	3.83	4.07	4.48	4.84	5.21	5.58	6.01	7.64	9.38

QUOTE PROGETTO	7.15	6.68	6.68	6.68	7.12
PROGRESSIVE PROGETTO	−1.72	−1.25	0.00	1.25	1.69

PROFILO CA. BULGARELLO

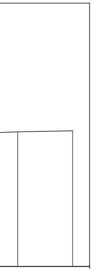
SEZIONE 37

PROGRESSIVA 10720



QUOTE TERRENO	9.53	9.45	9.47	9.59	9.52	9.45	9.39	8.94	8.87	8.55	8.37	8.01	7.29	7.17	7.11	7.02	6.96	6.96	7.02	7.07	7.20	7.36	7.46	7.76	7.97	8.32	8.57	8.83	9.10	9.38	9.46	9.51
PROGRESSIVE TERRENO	−13.57	−11.85	−10.47	−9.48	−8.12	−6.89	−5.96	−5.48	−5.04	−4.69	−4.32	−4.04	−3.90	−3.61	−2.68	−1.85	−1.07	−0.30	0.37	1.18	2.19	3.08	3.32	3.45	3.84	4.22	4.67	5.26	5.70	6.38	7.59	9.45

QUOTE PROGETTO	7.00	6.64	6.64	6.64	7.14
PROGRESSIVE PROGETTO	−1.61	−1.25	0.00	1.25	1.75

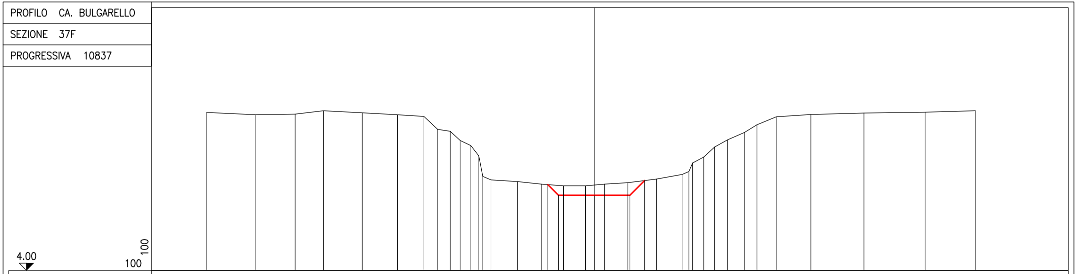


QUOTE TERRENO	PROGRESSIVE TERRENO
9.70	11.53
9.74	13.46

PROFILO CA. BULGARELLO

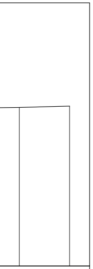
SEZIONE 37F

PROGRESSIVA 10837



QUOTE TERRENO	PROGRESSIVE TERRENO
9.53	−13.57
9.45	−11.85
9.47	−10.47
9.59	−9.48
9.52	−8.12
9.45	−6.89
9.39	−5.96
8.94	−5.48
8.87	−5.04
8.55	−4.69
8.37	−4.32
8.01	−4.04
7.29	−3.90
7.17	−3.61
7.11	−2.68
7.02	−1.85
6.96	−1.07
6.96	−0.30
7.02	0.37
7.07	1.18
7.20	2.19
7.36	3.08
7.46	3.32
7.76	3.45
7.97	3.84
8.32	4.22
8.57	4.67
8.83	5.26
9.10	5.70
9.38	6.38
9.46	7.59
9.51	9.45
9.54	11.59
9.59	13.35

QUOTE PROGETTO	PROGRESSIVE PROGETTO
7.00	−1.62
6.63	−1.25
6.63	0.00
6.63	1.25
7.15	1.77

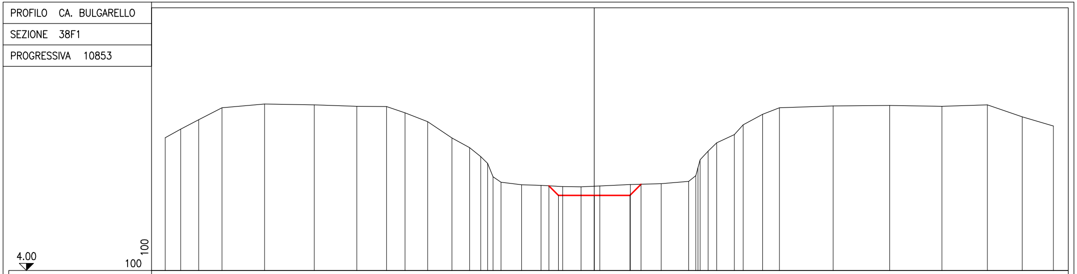


QUOTE TERRENO	PROGRESSIVE TERRENO
9.54	11.59
9.59	13.35

PROFILO CA. BULGARELLO

SEZIONE 38F1

PROGRESSIVA 10853



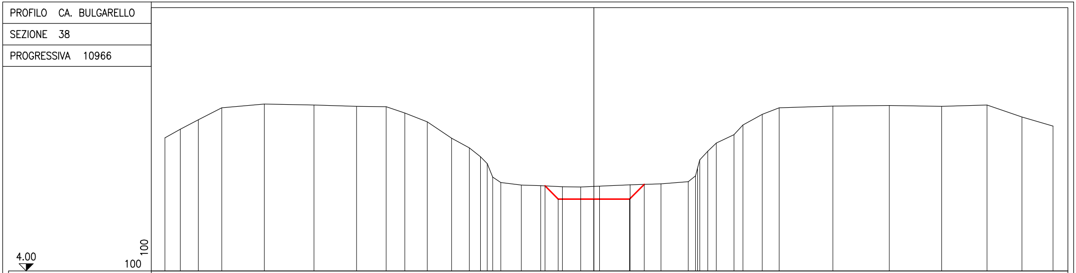
QUOTE TERRENO	PROGRESSIVE TERRENO
8.65	−15.02
8.95	−14.48
9.28	−13.85
9.70	−13.03
9.83	−11.54
9.80	−9.80
9.75	−8.31
9.74	−7.27
9.52	−6.62
9.21	−5.83
8.64	−4.98
8.30	−4.36
7.99	−3.97
7.75	−3.73
7.28	−3.54
7.09	−3.26
7.00	−2.54
6.98	−1.86
6.94	−1.10
6.93	−0.46
6.96	0.20
7.01	1.27
7.04	2.35
7.12	3.31
7.32	3.56
7.60	3.63
7.88	3.71
8.18	3.99
8.47	4.29
8.76	4.91
9.10	5.22
9.47	5.90
9.70	6.49
9.76	8.37
9.78	10.35
9.75	12.18
9.80	13.77
9.38	14.99
9.06	16.08

QUOTE PROGETTO	PROGRESSIVE PROGETTO
6.97	−1.59
6.63	−1.25
6.63	0.00
6.63	1.25
7.02	1.64

PROFILO CA. BULGARELLO

SEZIONE 38

PROGRESSIVA 10966



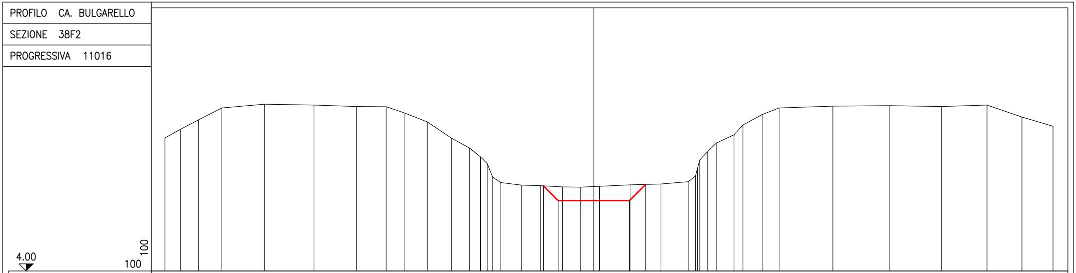
QUOTE TERRENO	8.65	8.95	9.28	9.70	9.83	9.80	9.75	9.74	9.52	9.21	8.64	8.30	7.99	7.75	7.28	7.09	7.00	6.98	6.94	6.93	6.96	7.01	7.04	7.12	7.32	7.60	7.88	8.18	8.47	8.76	9.10	9.47	9.70	9.76	9.78	9.75	9.80	9.38	9.06
PROGRESSIVE TERRENO	−15.02	−14.48	−13.85	−13.03	−11.54	−9.80	−8.31	−7.27	−6.62	−5.83	−4.98	−4.36	−3.97	−3.73	−3.54	−3.26	−2.54	−1.86	−1.10	−0.46	0.20	1.27	2.35	3.31	3.56	3.63	3.71	3.99	4.29	4.91	5.22	5.90	6.49	8.37	10.35	12.18	13.77	14.99	16.08

QUOTE PROGETTO	6.97	6.51	6.51	6.51	7.02
PROGRESSIVE PROGETTO	−1.71	−1.25	0.00	1.25	1.76

PROFILO CA. BULGARELLO

SEZIONE 38F2

PROGRESSIVA 11016



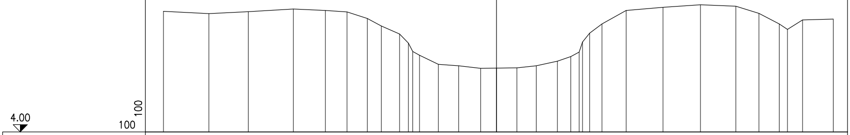
QUOTE TERRENO	8.65	8.95	9.28	9.70	9.83	9.80	9.75	9.74	9.52	9.21	8.64	8.30	7.99	7.75	7.28	7.09	7.00	6.98	6.94	6.93	6.96	7.01	7.04	7.12	7.32	7.60	7.88	8.18	8.47	8.76	9.10	9.47	9.70	9.76	9.78	9.75	9.80	9.38	9.06
PROGRESSIVE TERRENO	−15.02	−14.48	−13.85	−13.03	−11.54	−9.80	−8.31	−7.27	−6.62	−5.83	−4.98	−4.36	−3.97	−3.73	−3.54	−3.26	−2.54	−1.86	−1.10	−0.46	0.20	1.27	2.35	3.31	3.56	3.63	3.71	3.99	4.29	4.91	5.22	5.90	6.49	8.37	10.35	12.18	13.77	14.99	16.08

QUOTE PROGETTO	6.97	6.46	6.46	6.46	7.03
PROGRESSIVE PROGETTO	−1.76	−1.25	0.00	1.25	1.82

PROFILO CA. BULGARELLO

SEZIONE 39F

PROGRESSIVA 11018

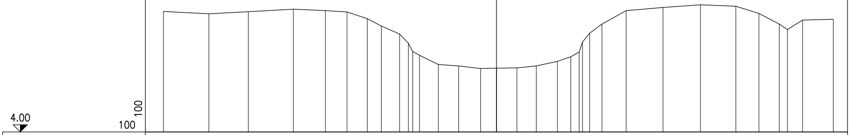


QUOTE TERRENO	8.21	8.13	8.20	8.28	8.24	8.18	7.96	7.70	7.41	7.10	6.80	6.67	6.36	6.30	6.22	6.23	6.24	6.30	6.47	6.63	6.78	7.13	7.45	7.76	8.24	8.35	8.43	8.38	8.13	7.76	7.58	7.90	7.93
PROGRESSIVE TERRENO	−11.66	−10.07	−8.69	−7.11	−5.99	−5.23	−4.52	−4.03	−3.39	−3.08	−2.93	−2.69	−2.03	−1.32	−0.55	0.00	0.72	1.40	2.14	2.61	2.90	3.02	3.27	3.70	4.55	5.84	7.15	8.39	9.20	9.91	10.20	10.73	11.80
QUOTE PROGETTO																																	
PROGRESSIVE PROGETTO																																	

PROFILO CA. BULGARELLO

SEZIONE 39

PROGRESSIVA 11270



QUOTE TERRENO	8.21	8.13	8.20	8.28	8.24	8.18	7.96	7.70	7.41	7.10	6.80	6.67	6.36	6.30	6.22	6.23	6.24	6.30	6.47	6.63	6.78	7.13	7.45	7.76	8.24	8.35	8.43	8.38	8.13	7.76	7.58	7.90	7.93
PROGRESSIVE TERRENO	−11.66	−10.07	−8.69	−7.11	−5.99	−5.23	−4.52	−4.03	−3.39	−3.08	−2.93	−2.69	−2.03	−1.32	−0.55	0.00	0.72	1.40	2.14	2.61	2.90	3.02	3.27	3.70	4.55	5.84	7.15	8.39	9.20	9.91	10.20	10.73	11.80
QUOTE PROGETTO																																	
PROGRESSIVE PROGETTO																																	

PROFILO CA. BULGARELLO

SEZIONE 40

PROGRESSIVA 11577

4.00

100 100

QUOTE TERRENO
PROGRESSIVE TERRENO
QUOTE PROGETTO
PROGRESSIVE PROGETTO

PROFILO CA. BULGARELLO

SEZIONE 41

PROGRESSIVA 11872

4.00

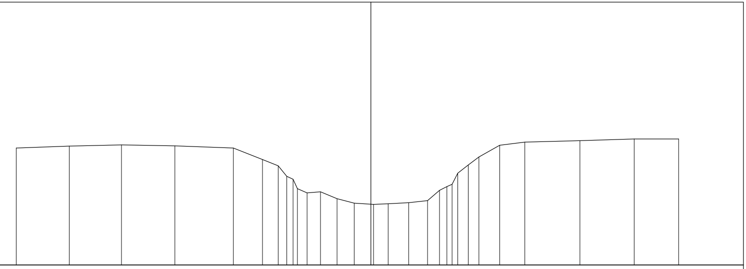
100 100

QUOTE TERRENO
PROGRESSIVE TERRENO
QUOTE PROGETTO
PROGRESSIVE PROGETTO

PROFILO CA. BULGARELLO

SEZIONE 42

PROGRESSIVA 12158

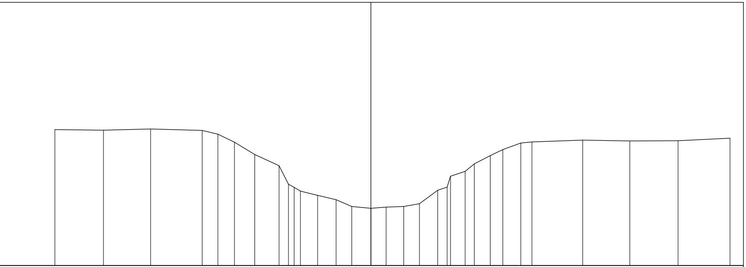


QUOTE TERRENO	PROGRESSIVE TERRENO	QUOTE PROGETTO	PROGRESSIVE PROGETTO
8.09	−12.43		
8.16	−10.57		
8.20	−8.74		
8.17	−6.87		
8.09	−4.82		
7.69	−3.80		
7.47	−3.25		
7.10	−2.95		
7.00	−2.73		
6.67	−2.58		
6.52	−2.24		
6.56	−1.77		
6.32	−1.19		
6.16	−0.59		
6.12	0.09		
6.14	0.60		
6.18	1.32		
6.25	1.98		
6.61	2.40		
6.74	2.66		
6.82	2.84		
7.21	3.04		
7.50	3.41		
7.78	3.78		
8.19	4.51		
8.30	5.39		
8.35	7.32		
8.41	9.22		
8.41	10.78		

PROFILO CA. BULGARELLO

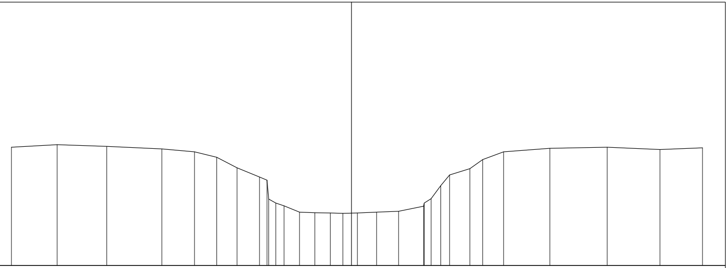
SEZIONE 43

PROGRESSIVA 12468



QUOTE TERRENO	PROGRESSIVE TERRENO	QUOTE PROGETTO	PROGRESSIVE PROGETTO
8.75	−11.07		
8.73	−9.37		
8.77	−7.72		
8.72	−5.91		
8.59	−5.36		
8.31	−4.78		
7.88	−4.07		
7.49	−3.22		
6.84	−2.89		
6.73	−2.69		
6.60	−2.47		
6.45	−1.87		
6.30	−1.22		
6.06	−0.67		
6.00	0.00		
6.04	0.53		
6.06	1.15		
6.16	1.70		
6.63	2.34		
6.74	2.67		
7.12	2.79		
7.29	3.30		
7.55	3.62		
7.84	4.18		
8.05	4.62		
8.28	5.25		
8.32	5.64		
8.38	7.42		
8.35	9.07		
8.36	10.76		
8.45	12.58		

QUOTE TERRENO	PROGRESSIVE TERRENO
8.09	−13.33



8.13	8.22	8.16	8.07	7.97	7.78	7.41	7.09	6.98	6.32	6.18	6.08	5.86	5.84	5.83	5.82	5.83	5.86	5.89	6.07	6.18	6.33	6.79	7.16	7.38	7.70	7.97	8.09	8.13	8.05	8.11
-11.91	-10.31	-8.57	-6.64	-5.50	-4.72	-4.01	-3.22	-2.96	-2.90	-2.65	-2.36	-1.82	-1.28	-0.74	-0.30	0.21	0.88	1.65	2.53	2.55	2.79	3.13	3.44	4.15	4.60	5.33	6.95	8.96	10.81	12.30

PROFILO CA. BULGARELLO

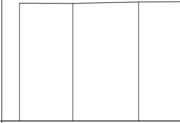
SEZIONE 44

PROGRESSIVA 12636

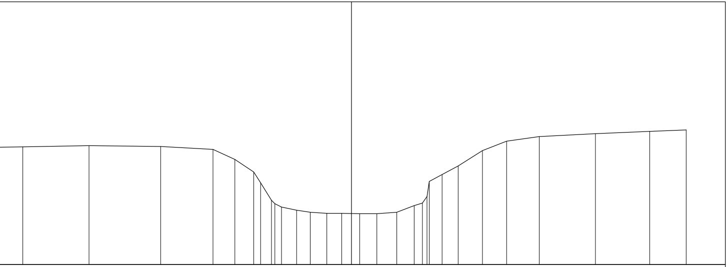
4.00

100

100



QUOTE TERRENO	8.11	8.10	8.14
PROGRESSIVE TERRENO	-12.93	-11.06	-8.75
QUOTE PROGETTO			
PROGRESSIVE PROGETTO			



8.12	8.16	8.13	8.03	7.68	7.24	6.86	6.25	6.13	6.01	5.90	5.83	5.79	5.79	5.78	5.78	5.83	6.06	6.15	6.38	6.91	7.15	7.45	7.99	8.32	8.48	8.58	8.66	8.71
-11.51	-9.19	-6.68	-4.85	-4.08	-3.42	-3.18	-2.80	-2.68	-2.45	-1.92	-1.44	-0.86	-0.34	0.29	0.89	1.59	2.20	2.49	2.65	2.73	3.18	3.74	4.59	5.44	6.58	8.55	10.45	11.73

PROFILO CA. BULGARELLO

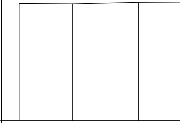
SEZIONE 44F

PROGRESSIVA 12686

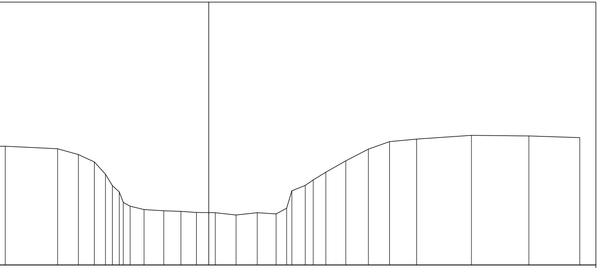
4.00

100

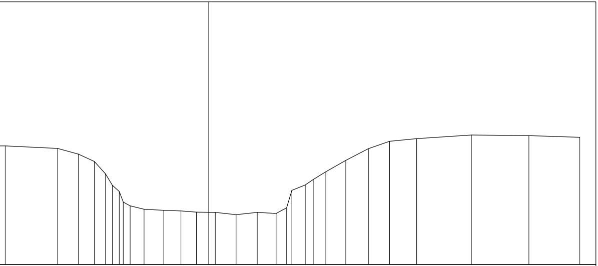
100



QUOTE TERRENO	8.11	8.10	8.14
PROGRESSIVE TERRENO	-12.93	-11.06	-8.75
QUOTE PROGETTO			
PROGRESSIVE PROGETTO			



8.15	-7.12
8.06	-5.29
7.87	-4.56
7.61	-4.00
7.17	-3.61
6.77	-3.37
6.55	-3.13
6.18	-2.99
6.05	-2.75
5.93	-2.26
5.89	-1.57
5.88	-0.97
5.84	-0.43
5.83	0.23
5.75	0.96
5.83	1.70
5.78	2.36
5.99	2.73
6.60	2.91
6.78	3.38
6.98	3.66
7.25	4.10
7.64	4.80
8.05	5.59
8.31	6.33
8.40	7.28
8.53	9.20
8.51	11.21
8.46	12.99



8.15	-7.12
8.06	-5.29
7.87	-4.56
7.61	-4.00
7.17	-3.61
6.77	-3.37
6.55	-3.13
6.18	-2.99
6.05	-2.75
5.93	-2.26
5.89	-1.57
5.88	-0.97
5.84	-0.43
5.83	0.23
5.75	0.96
5.83	1.70
5.78	2.36
5.99	2.73
6.60	2.91
6.78	3.38
6.98	3.66
7.25	4.10
7.64	4.80
8.05	5.59
8.31	6.33
8.40	7.28
8.53	9.20
8.51	11.21
8.46	12.99