

autostrade // per l'italia

AUTOSTRADA (A14) : BOLOGNA–BARI–TARANTO
TRATTO: BOLOGNA BORGO PANIGALE – BOLOGNA SAN LAZZARO

POTENZIAMENTO DEL SISTEMA TANGENZIALE DI BOLOGNA
TRA BORGO PANIGALE E SAN LAZZARO

PROGETTO DEFINITIVO

VL – VIABILITA' INTERFERITA

PARTE STRADALE

VL06 – RIQUALIFICA VIA DI CORTICELLA – 13+807

SEZIONI TRASVERSALI

IL PROGETTISTA SPECIALISTICO

Ing. Gianluca Salvatore Spinazzola
Ord. Ingg. Milano N. 26796

RESPONSABILE STRADE
E ARREDI STRADALI

IL RESPONSABILE INTEGRAZIONE PRESTAZIONI SPECIALISTICHE

Ing. Raffaele Rinaldesi
Ord. Ingg. Macerata N. A1068

IL DIRETTORE TECNICO

Ing. Orlando Mazza
Ord. Ingg. Pavia N. 1496

PROGETTAZIONE NUOVE OPERE AUTOSTRADALI

CODICE IDENTIFICATIVO

RIFERIMENTO PROGETTO		RIFERIMENTO DIRETTORIO										RIFERIMENTO ELABORATO				Ordinatore:
Codice	Commessa	Lotto, Sub- Cod. Prog. Cod. Appalto	Fase	Capitolo	Paragrafo	WBS		PARTE D'OPERA			Tip.	Disciplina	Progressivo	Rev.	00	
						tipologia	progressivo							SCALA: 1:200		
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PROJECT MANAGER:

Ing. Giulio Ghezzi
Ord. Ingg. Pesaro Urbino N. 1768

SUPPORTO SPECIALISTICO:

REDATTO:

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VERIFICATO:

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REVISIONE

n.	data
0	NOVEMBRE 2016
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VISTO DEL COMMITTENTE

autostrade // per l'italia

IL RESPONSABILE UNICO DEL PROCEDIMENTO
Ing. Marilisa Conte

VISTO DEL CONCEDENTE



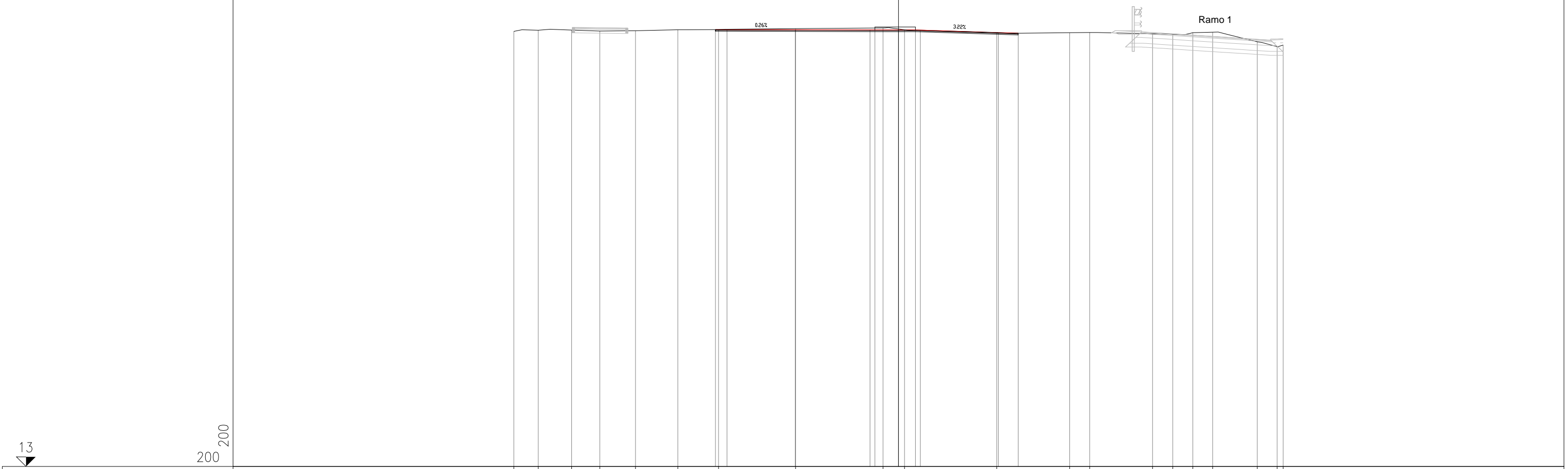
Ministero delle Infrastrutture e dei Trasporti
DIPARTIMENTO PER LE INFRASTRUTTURE, GLI AFFARI GENERALI ED IL PERSONALE
STRUTTURA DI VIGILANZA SULLE CONCESSIONARIE AUTOSTRADALI

STERRO 1.92 mq.
 BI
 USURA 15.74 ml.
 a1
 BINDER
 b1 15.74 ml.

SEZIONE 4
 PROGRESSIVA 42.17

200 200

13



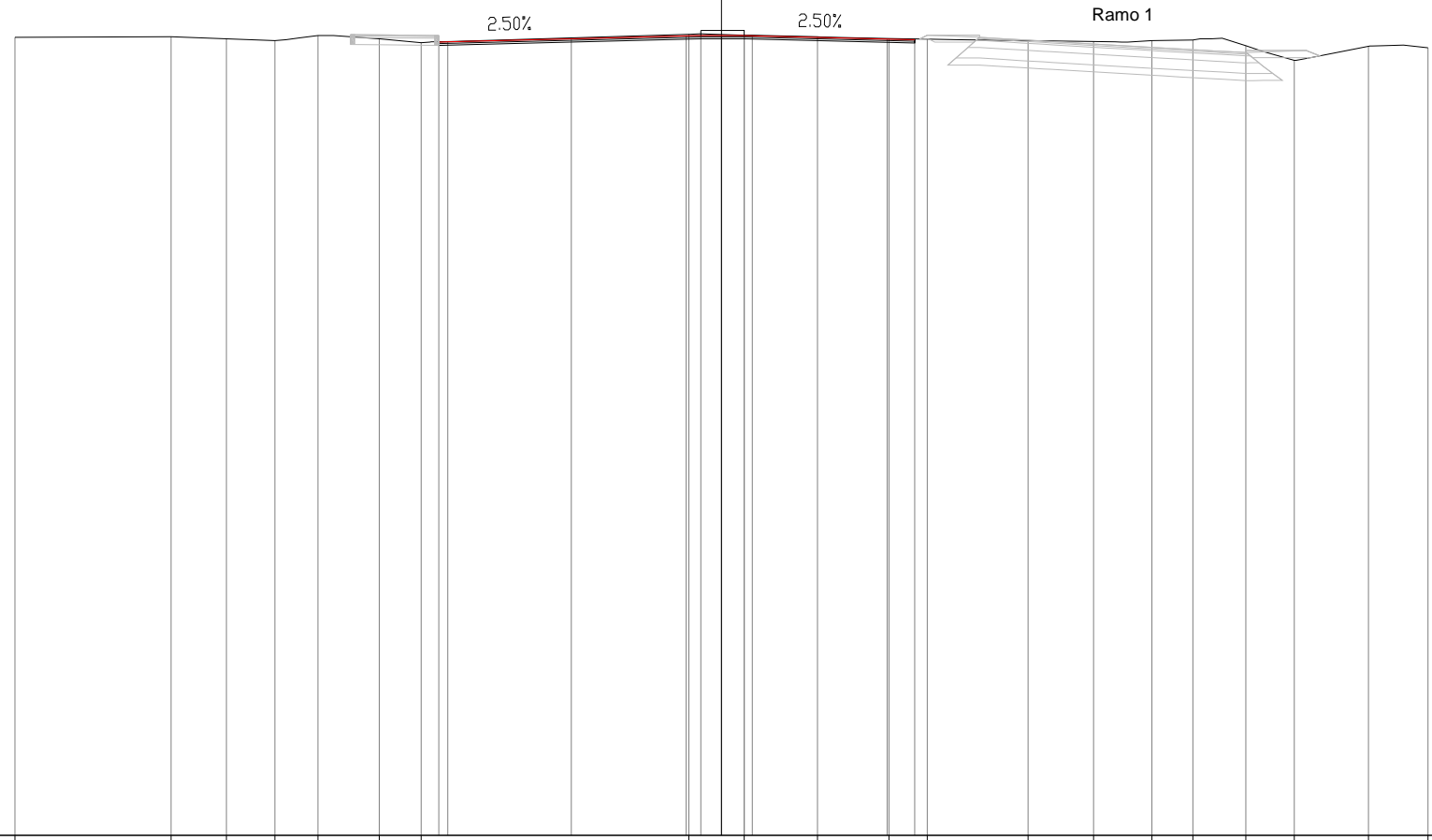
PROGRESSIVE TERRENO		-20.00	-18.73	-17.00	-15.53	-13.68	-11.48	-9.35	-5.35	-0.81	0.31	5.10	8.90	9.94	13.20	14.26	15.30	16.33	18.66	19.68	20.60
PARZIALI TERRENO		1.27	1.73	1.47	1.85	2.20	2.13	4.00	4.54	1.12	4.79	3.80	1.04	3.26	1.06	1.04	1.03	2.04	1.03	0.31	
QUOTE TERRENO		35.64	35.71	35.72	35.66	35.68	35.73	35.74	35.79	35.82	35.73	35.58	35.58	35.59	35.52	35.50	35.57	35.60	35.10	34.85	34.85
PROGRESSIVE PROGETTO								-9.52	-5.37	-1.48	0.00	5.19	6.22								
PARZIALI PROGETTO							0.60	3.55	3.89	0.25	1.23	0.88	4.06	1.03							
QUOTE PROGETTO							35.74	35.74	35.73	35.72	35.72	35.58	35.55								

STERRO 1.53 mq.
 BI
 USURA 13.47 ml.
 a1
 BINDER
 b1 13.47 ml.

SEZIONE 6
 PROGRESSIVA 58.87

200 200

13



PROGRESSIVE TERRENO	-20.00	-15.58	-14.01	-12.64	-11.42	-9.69	-8.50	-0.93	0.64	2.71	4.74	5.82	8.68	10.53	12.18	13.34	14.84	16.22	18.31	20.00	
PARZIALI TERRENO	4.42	1.57	1.37	1.22	1.73	1.19	7.57	1.57	2.07	2.03	1.08	2.86	1.85	1.65	1.16	1.50	1.38	2.09	1.69		
QUOTE TERRENO	35.61	35.63	35.57	35.52	35.66	35.57	35.46	35.69	35.67	35.63	35.58	35.56	35.52	35.50	35.51	35.53	35.37	34.96	35.36	35.32	
PROGRESSIVE PROGETTO							-8.99	-4.25	-1.00	-0.59	0.00	0.64	4.69	5.47							
PARZIALI PROGETTO							0.25	3.50	3.25	0.41	0.59	0.64	3.82	0.78							
QUOTE PROGETTO							35.48	35.57	35.65	35.66	35.66	35.68	35.56	35.54							

STERRO 1.46 mq.
 BI
 USURA 16.66 ml.
 a1
 BINDER 16.66 ml.
 b1

SEZIONE 7
 PROGRESSIVA 80.00

200 200

13



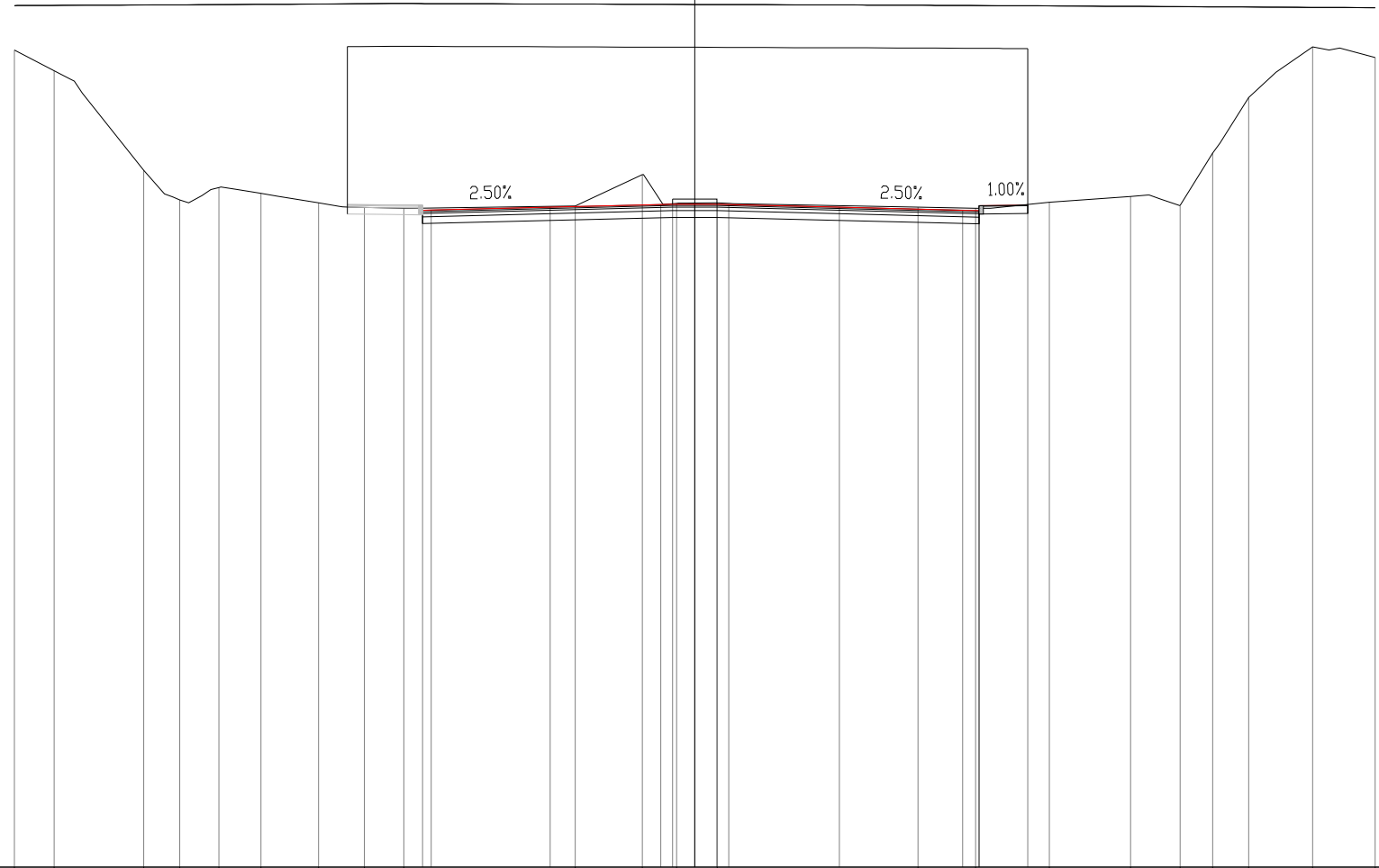
PROGRESSIVE TERRENO	-20.00	-18.85	-14.46	-13.22	-11.97	-9.60	-8.54	-6.37	-3.30	-0.96	0.66	1.73	4.40	5.79	8.30	9.98	11.26	14.47	16.32	19.35	20.00
PARZIALI TERRENO	1.15	4.39	1.24	1.25	2.37	1.06	2.17	3.07	2.34	1.62	1.07	2.67	1.39	2.51	1.68	1.28	3.21	1.85	3.03	0.65	
QUOTE TERRENO	35.51	35.51	35.48	35.49	35.49	35.47	35.41	35.44	35.49	35.53	35.62	35.56	35.53	35.50	35.45	35.58	35.64	35.68	35.65	35.42	35.39
PROGRESSIVE PROGETTO							-8.99	-4.25		-1.00	-0.60	0.00	4.25		8.30	8.66					
PARZIALI PROGETTO						0.25	3.50	3.25		0.40	0.60	0.66	3.38	4.05	0.36						
QUOTE PROGETTO						35.41	35.49			35.57	35.58	35.58	35.52		35.45	35.44					

STERRO	
B1	8.46 mq.
USURA	
a1	16.36 ml.
BINDER	
b1	16.36 ml.
BASE	
c1	16.36 ml.
FONDAZIONE NON LEGATA	
e1	16.36 ml.
ASFALTO COLATO	
h1	1.43 ml.
MASSETTO	
i1	1.43 ml.

SEZIONE 8
PROGRESSIVA 100.00

200
200

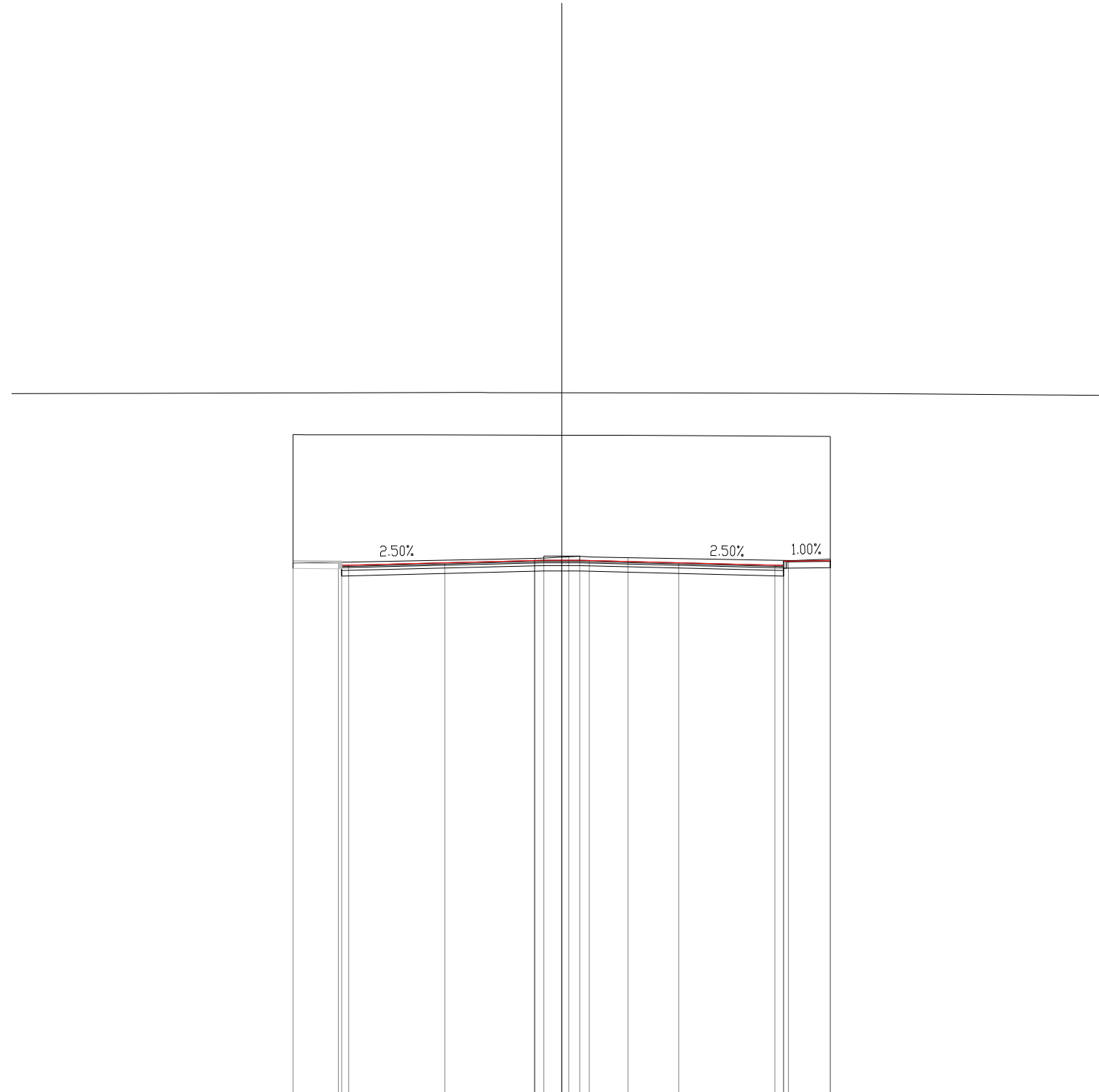
16



PROGRESSIVE TERRENO	-20.00	-18.83	-16.20	-15.14	-13.99	-12.76	-11.06	-9.71	-8.55		-3.51	-1.54	-0.54	0.66		6.56	8.26	10.42	12.81	14.26	15.22	16.28	18.16	20.00
PARZIALI TERRENO		1.17	2.63	1.06	1.15	1.23	1.70	1.35	1.16		5.04	1.97	1.00	1.20		5.90	1.70	2.16	2.39	1.45	0.96	1.06	1.88	1.84
QUOTE TERRENO	40.05	39.44	36.51	35.64	36.01	35.83	35.55	35.42	35.39		35.46	36.39	35.54	35.56		35.43	35.40	35.57	35.74	35.47	37.02	38.65	40.14	39.83
PROGRESSIVE PROGETTO									-9.99		-4.25	-1.00	-0.65	0.00	0.65	4.25	7.88	8.36	9.79					
PARZIALI PROGETTO								0.25	3.50		3.25	0.35	0.65	0.35	3.25	3.63	0.48	1.43						
QUOTE PROGETTO								35.34	35.43		35.51	35.52	35.52	35.51	35.43	35.34	35.47	35.32	35.49					

STERRO	
B1	8.75 mq.
USURA	
a1	16.06 ml.
BINDER	
b1	16.06 ml.
BASE	
c1	16.06 ml.
FONDAZIONE NON LEGATA	
e1	16.06 ml.
ASFALTO COLATO	
h1	1.70 ml.
MASSETTO	
il	1.70 ml.

SEZIONE 9
PROGRESSIVA 120.00



16

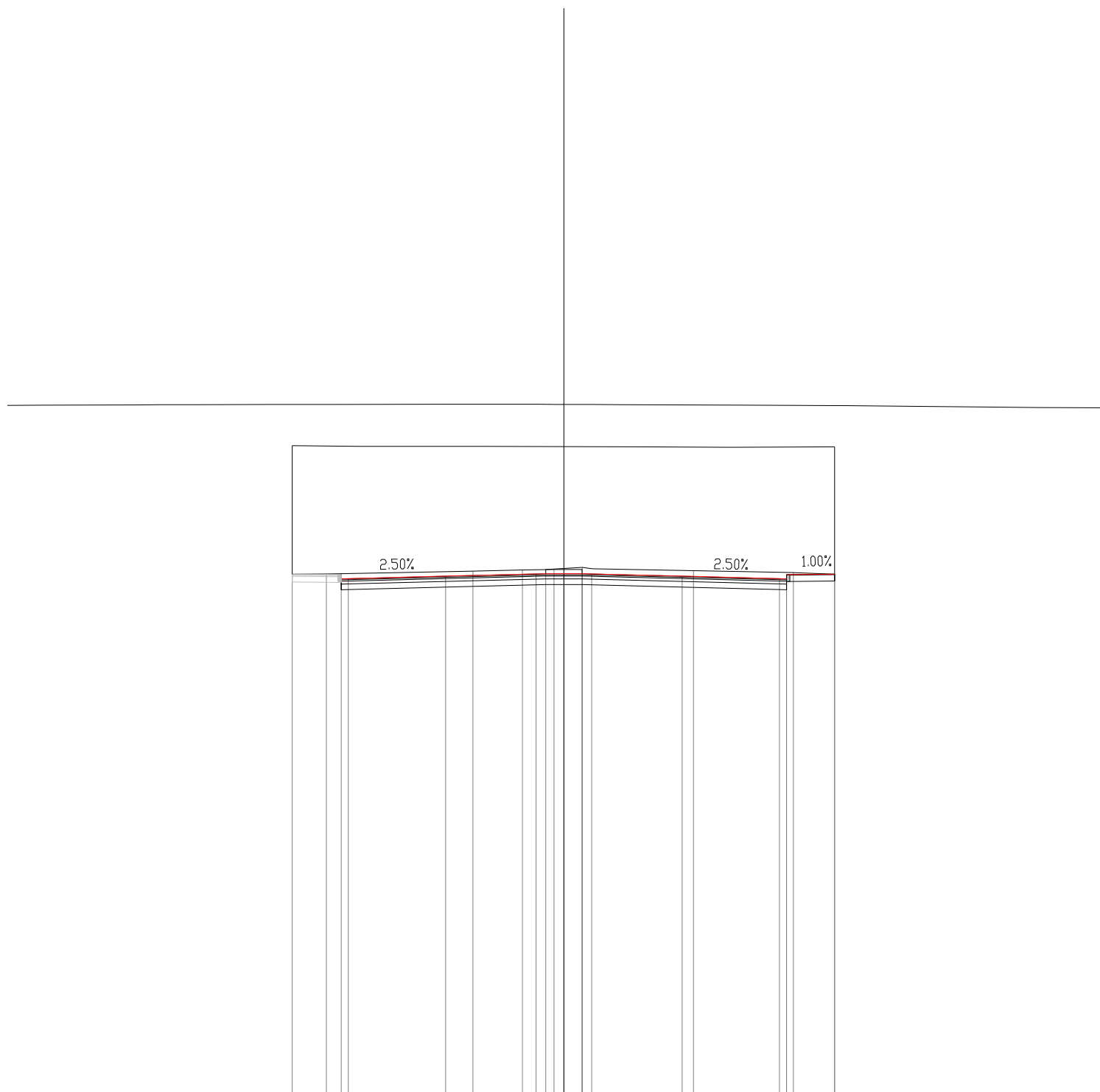
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PROGRESSIVE TERRENO		-9.77	-8.12		-0.97	0.25	2.40		8.24	9.76		
PARZIALI TERRENO		1.65		7.15	1.22	2.15		5.84	1.52			
QUOTE TERRENO		35.35	35.38		35.52	35.58	35.55		35.44	35.50		
PROGRESSIVE PROGETTO			-8.99	-4.25	-1.00	0.00	1.00	4.25	7.75	8.06	9.76	
PARZIALI PROGETTO			0.25	3.50	3.25	0.35	0.65	0.35	3.25	3.50	0.31	1.70
QUOTE PROGETTO		35.27	35.27	35.36	35.44	35.45	35.44	35.36	35.27	35.42	35.43	

STERRO	
B1	9.73 mq.
USURA	
a1	16.00 ml.
BINDER	
b1	16.00 ml.
BASE	
c1	16.00 ml.
FONDAZIONE NON LEGATA	
e1	16.00 ml.
ASFALTO COLATO	
h1	1.73 ml.
MASSETTO	
i1	1.73 ml.

SEZIONE 10

PROGRESSIVA 140.00



16
200 200

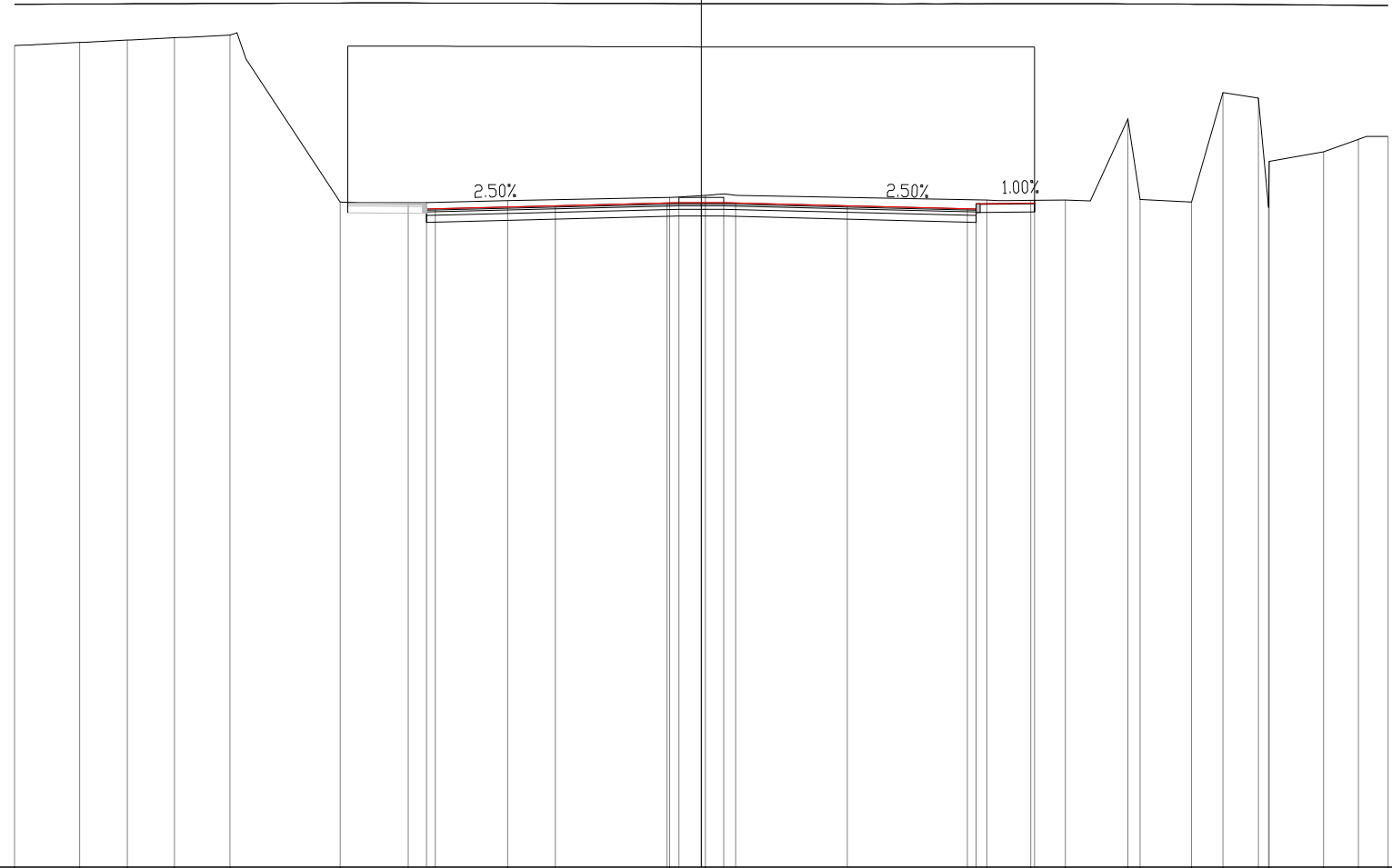
PROGRESSIVE TERRENO			-9.76	-8.53		-3.27	-1.50	-0.35	0.66		4.66	8.25	9.73
PARZIALI TERRENO			1.23	5.26		1.77	1.15	1.01	4.00		3.59	1.48	
QUOTE TERRENO			35.37	35.38		35.48	35.52	35.55	35.61		35.49	35.43	35.37
PROGRESSIVE PROGETTO			-9.99	-4.25		-1.00	-0.65	0.00	0.65		4.25	7.75	9.73
PARZIALI PROGETTO			0.25	3.50		3.25	0.35	0.65	0.35		3.25	0.25	1.73
QUOTE PROGETTO			35.21	35.30		35.38	35.39	35.38	35.38		35.30	35.21	35.37

SEZIONE 11
PROGRESSIVA 160.00

- STERRO 10.10 mq.
- B1 16.00 ml.
- USURA a1 16.00 ml.
- BINDER b1 16.00 ml.
- BASE c1 16.00 ml.
- FONDAZIONE NON LEGATA e1 16.00 ml.
- ASFALTO COLATO h1 1.70 ml.
- MASSETTO i1 1.70 ml.

200
200

16



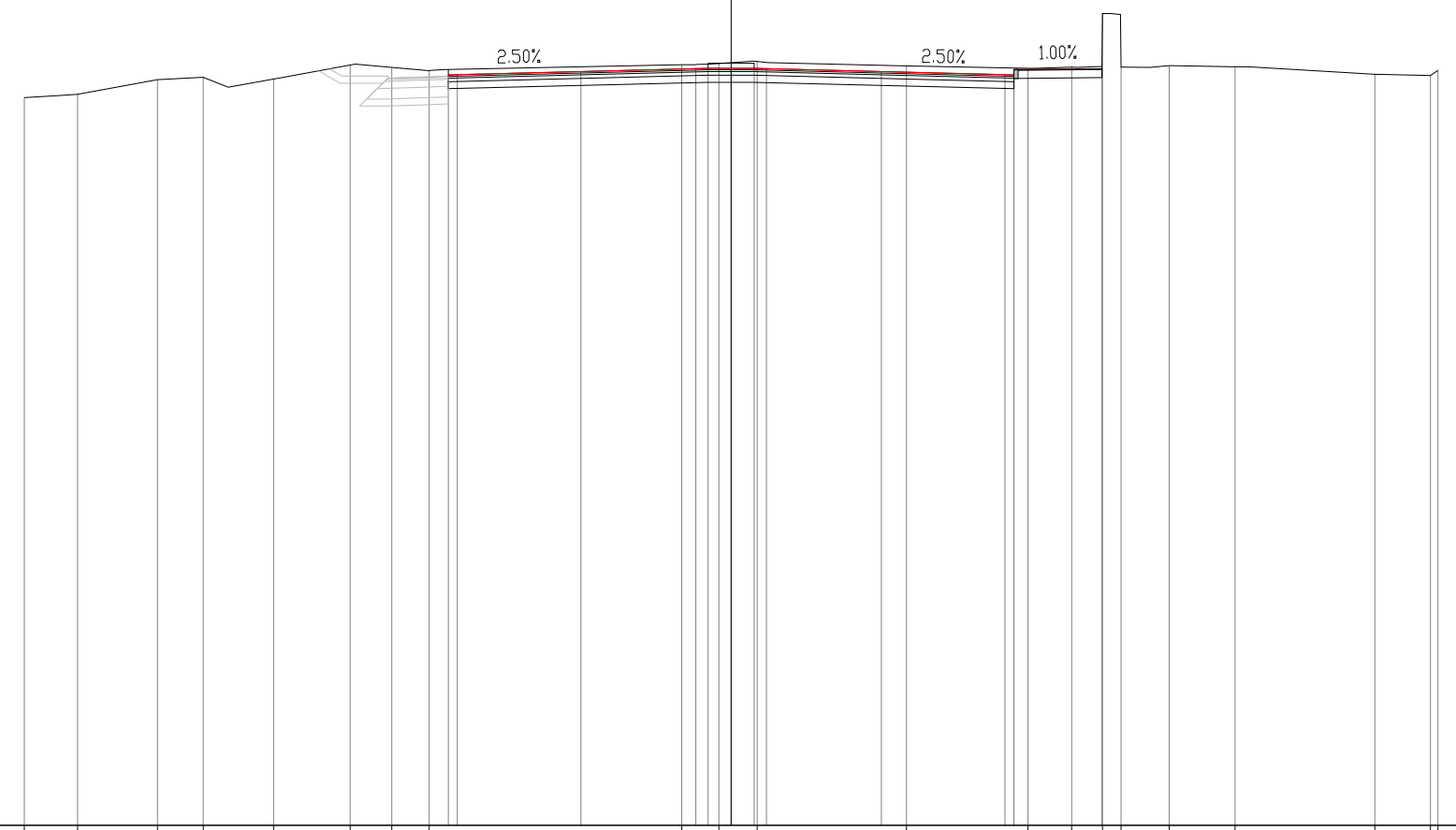
PROGRESSIVE TERRENO	-20.00	-18.10	-16.71	-15.35	-13.73	-10.52	-8.54	-5.64	-0.92	0.12	8.32	9.60	10.60	12.42	14.28	15.19	16.22	16.54	18.12	19.14	20.00	
PARZIALI TERRENO	0.17	1.73	1.39	1.36	1.27	3.21	1.98	2.90	4.72	1.04	8.20	1.28	1.00	1.82	0.36	1.50	0.91	1.03	0.30	0.58	1.02	0.86
QUOTE TERRENO	39.96	40.05	40.12	40.19	40.26	35.40	35.38	35.43	35.53	35.59	35.45	35.45	35.46	37.82	35.40	38.59	38.43	36.58	36.86	37.22	37.31	
PROGRESSIVE PROGETTO							-9.99	-4.25	-1.00	-0.65	7.75	9.70		7.00								
PARZIALI PROGETTO							0.25	3.50	0.35	0.65	0.25	1.70		0.25								
QUOTE PROGETTO							35.29	35.29	35.37	35.38	35.34	35.36	35.36	35.29	35.34	35.36	35.37	35.37	35.29	35.36	35.36	35.36

SEZIONE 12
PROGRESSIVA 171.23

- STERRO 9.46 mq.
- B1 16.00 ml.
- USURA a1 16.00 ml.
- BINDER b1 16.00 ml.
- BASE c1 16.00 ml.
- FONDAZIONE NON LEGATA e1 16.00 ml.
- ASFALTO COLATO h1 2.49 ml.
- MASSETTO il 2.49 ml.

200
200

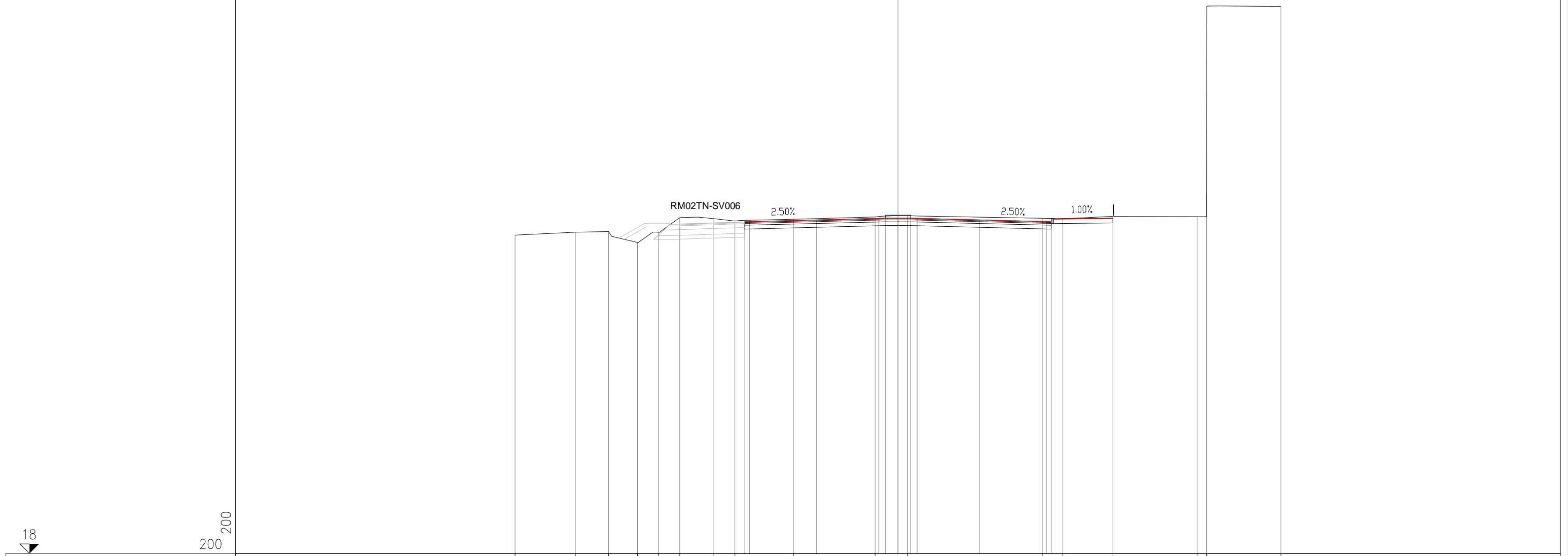
14



PROGRESSIVE TERRENO	-20.00	-18.50	-16.24	-14.94	-12.95	-10.78	-9.60	-8.54	-1.40	-0.35	0.73	4.96	8.40	9.64	10.51	11.04	12.40	14.26	18.21	20.00
PARZIALI TERRENO	1.50	2.26	1.30	1.99	2.17	1.18	1.06	7.14	1.05	1.08	4.23	3.44	1.24	0.70	1.36	1.86	3.95	1.57	0.22	0.22
QUOTE TERRENO	34.61	34.70	35.12	35.19	35.14	35.53	35.47	35.38	35.54	35.58	35.64	35.51	35.44	35.48	36.99	35.47	35.52	35.49	35.27	35.38
PROGRESSIVE PROGETTO								-8.99	-4.25	-1.00	0.00	4.25	7.75	8.00	10.49					
PARZIALI PROGETTO							0.25	3.50	3.25	0.35	0.65	3.25	3.50	0.25	2.49					
QUOTE PROGETTO							35.26	35.35	35.43	35.44	35.43	35.35	35.26	35.41	35.43					

- STERRO 8.88 mq.
- BI 16.00 ml.
- USURA 16.00 ml.
- a1 16.00 ml.
- BINDER 16.00 ml.
- b1 16.00 ml.
- BASE 16.00 ml.
- c1 16.00 ml.
- FONDAZIONE NON LEGATA 16.00 ml.
- e1 16.00 ml.
- ASFALTO COLATO 3.23 ml.
- h1 3.23 ml.
- MASSETTO 3.23 ml.
- i1 3.23 ml.

SEZIONE 13
PROGRESSIVA 180.00



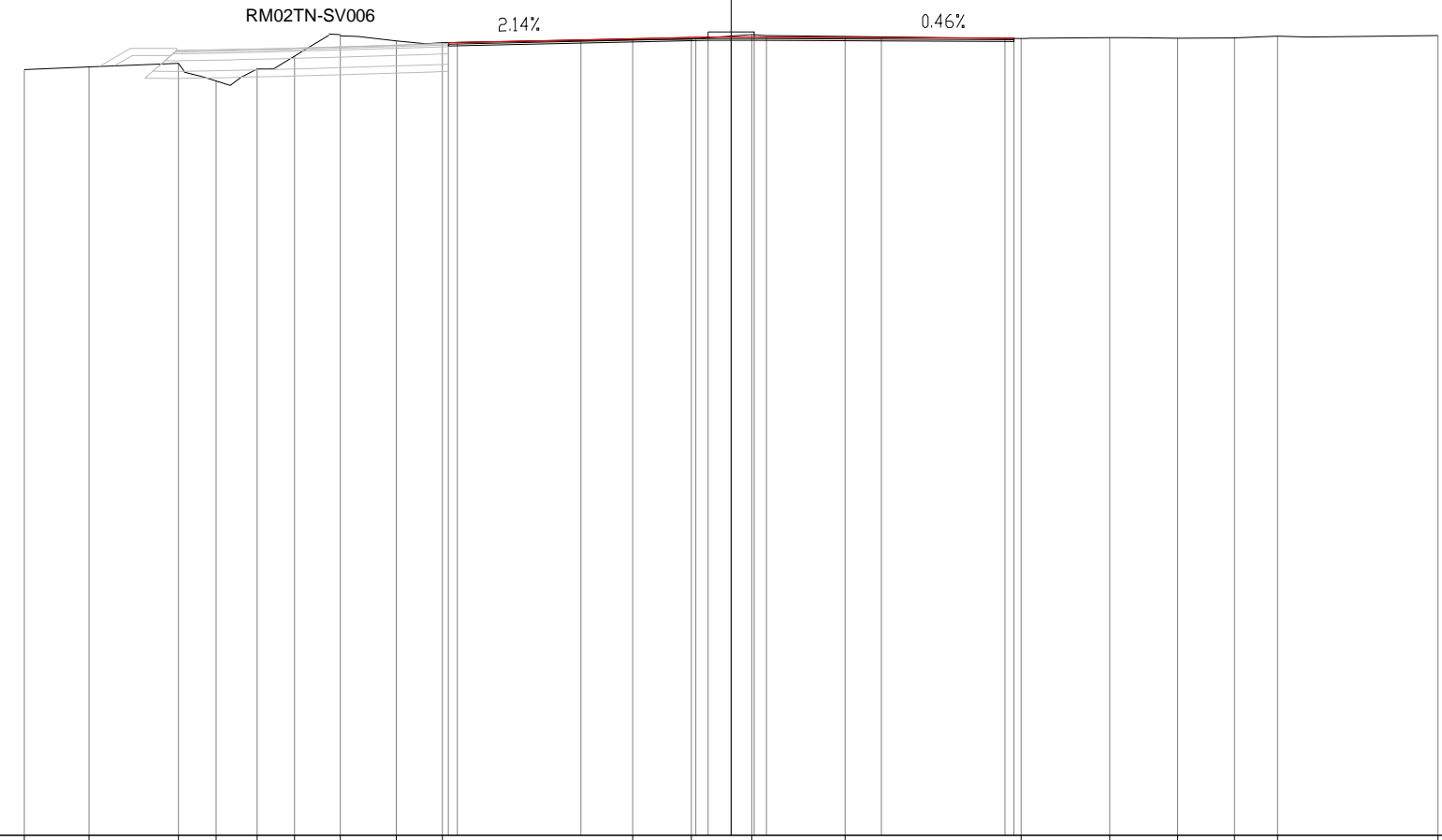
PROGRESSIVE TERRENO		-20.00	-16.85	-15.12	-13.61	-12.52	-11.40	-9.65	-8.52	-5.46	-1.20	0.51	7.53	8.61	11.23	15.63	18.13	20.00	
PARZIALI TERRENO		3.15	1.73	1.51	1.09	1.12	1.75	1.13	3.06	4.26	0.75	1.13	6.85	1.08	2.62	4.39	0.49	0.02	3.87
QUOTE TERRENO		34.64	34.78	34.82	34.25	34.78	35.55	35.49	35.37	35.46	35.59	35.67	35.51	35.48	35.62	35.69	36.70	46.58	
PROGRESSIVE PROGETTO									-7.99	-4.25	-1.00	-0.65	0.00	0.65	1.00	4.25	7.75	8.00	11.23
PARZIALI PROGETTO								0.25	3.50	3.25	0.35	0.65	0.35	3.25	3.50	0.25	3.23		
QUOTE PROGETTO								35.34	35.43	35.51	35.52	35.52	35.51	35.43	35.34	35.39	35.52	35.52	

STERRO 1.46 mq.
 BI
 USURA 16.00 ml.
 a1
 BINDER 16.00 ml.
 b1

SEZIONE 14
 PROGRESSIVA 189.53

200 200

13



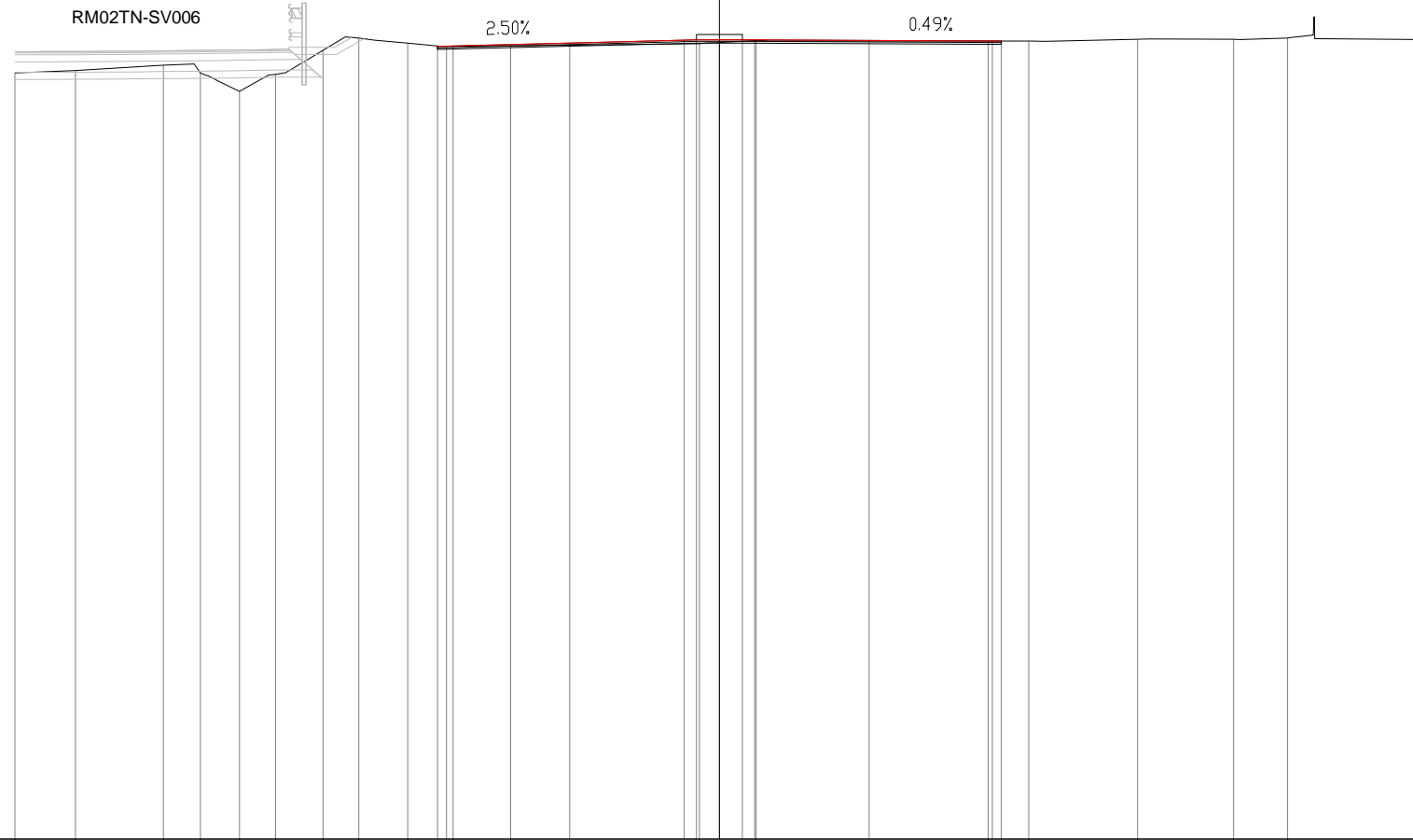
PROGRESSIVE TERRENO	-20.00	-18.17	-15.64	-14.57	-13.41	-12.35	-11.06	-9.48	-8.17		-2.78	-1.12	0.58	3.23	8.21	10.71	12.63	14.24	15.46	20.00
PARZIALI TERRENO	1.83	2.53	1.07	1.16	1.06	0.97	0.32	1.58	1.31	5.39	1.66	1.70	0.37	2.28	4.98	2.50	1.92	1.61	1.22	4.54
QUOTE TERRENO	34.70	34.77	34.88	34.37	34.72	35.08	35.69	35.51	35.46	35.54	35.56	35.69	35.63	35.58	35.60	35.59	35.59	35.59	35.65	35.66
PROGRESSIVE PROGETTO									-9.99	-4.25	-1.00	0.00	4.25	7.00						
PARZIALI PROGETTO								0.25	3.50	3.25	0.35	0.65	0.35	3.25	3.50				0.25	
QUOTE PROGETTO								35.46	35.54	35.61	35.62	35.61	35.60	35.58						

RILEVATO
 A1 0.02 mq.
 STERRO
 B1 0.24 mq.
 B2 0.59 mq.
 Totale: 0.83 mq.
 USURA
 a1 16.00 ml.
 BINDER
 b1 16.00 ml.

SEZIONE 15
 PROGRESSIVA 200.00

200
 200

13



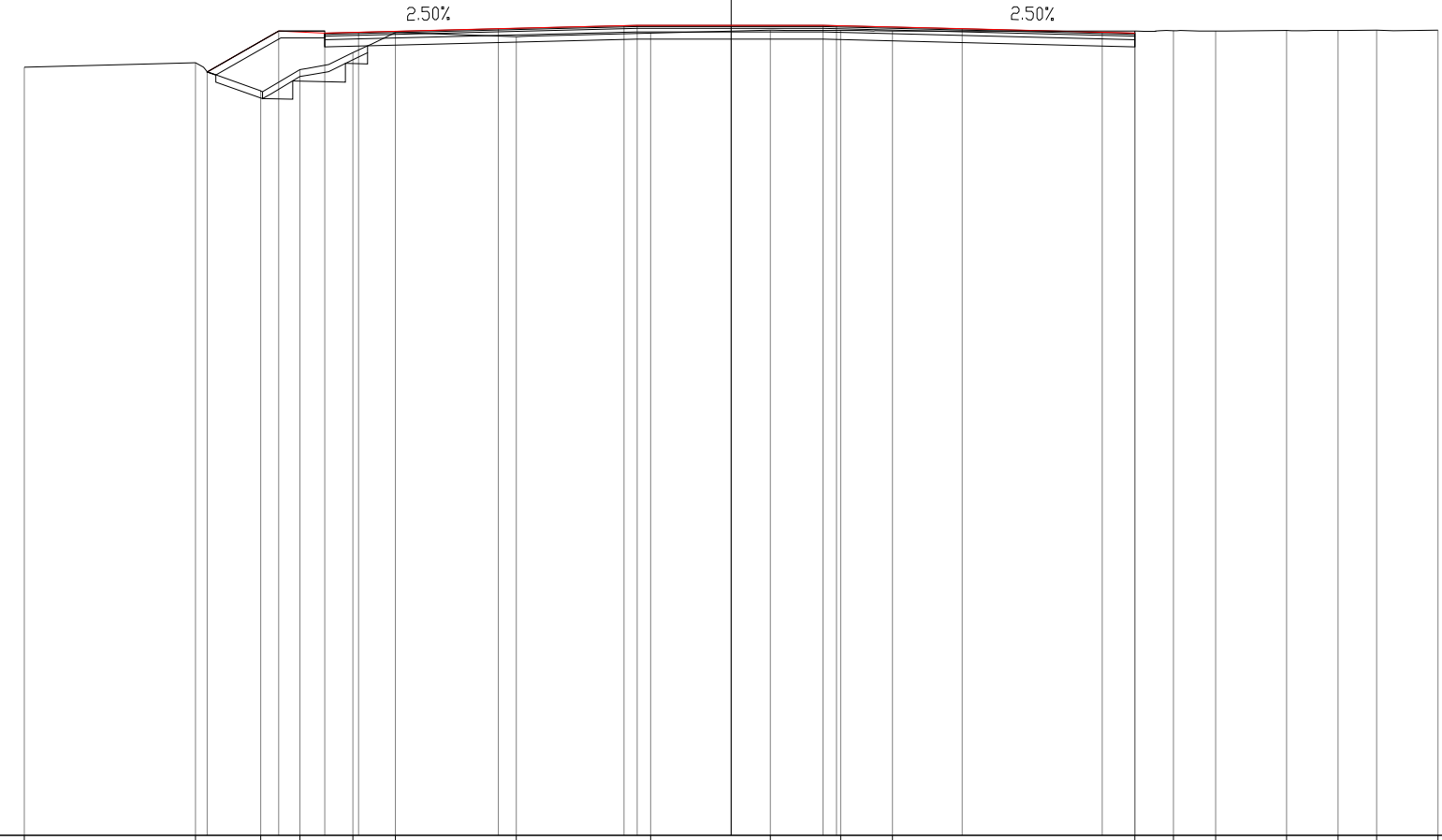
PROGRESSIVE TERRENO	-20.00	-18.28	-15.79	-14.74	-13.62	-12.60	-11.25	-10.24	-8.85	-7.56	-5.92	-0.57	1.04	7.63	8.78	11.87	14.59	16.13	20.00
PARZIALI TERRENO	1.72	2.49	1.05	1.12	1.02	1.35	0.63	1.76	1.29	0.21	1.43	5.35	1.61	6.59	1.15	3.09	2.72	1.54	3.87
QUOTE TERRENO	34.78	34.85	35.00	34.78	34.25	34.74	35.42	35.77	35.63	35.54	35.55	35.61	35.70	35.68	35.68	35.74	35.74	35.78	35.73
PROGRESSIVE PROGETTO										-7.99	-4.25	-1.00	0.00	4.25	7.00				
PARZIALI PROGETTO										0.25	3.50	3.25	0.35	0.65	0.35	3.25	3.50	0.25	
QUOTE PROGETTO										35.54	35.63	35.71	35.72	35.72	35.68	35.70	35.68		

SEZIONE 17
PROGRESSIVA 215.54

RILEVATO	
A1	2.93 mq.
STERRO	
B1	5.69 mq.
USURA	
a1	22.92 ml.
BINDER	
b1	22.92 ml.
BASE	
c1	22.92 ml.
FONDAZIONE NON LEGATA	
e1	22.92 ml.
VEGETALE	
f1	3.91 ml.
IDROSEMINA	
g1	3.64 ml.
SCOTICO	
l1	1.40 ml.
GRADONATURA	
m1	3.28 ml.

200
200

13



PROGRESSIVE TERRENO		-20.00	-15.16	-13.31	-12.20	-10.71	-9.50	-6.08	-2.28	1.10	3.10	4.56		11.42	12.51	13.71	15.71	17.17	18.26	20.00
PARZIALI TERRENO			4.84	1.85	1.11	1.49	1.21	3.42	3.80	3.38	2.00	1.46	6.86	1.09	1.20	2.00	1.46	1.09	1.74	
QUOTE TERRENO		34.76	34.89	34.09	34.70	35.18	35.75	35.63	35.73	35.81	35.81	35.79		35.78	35.80	35.79	35.80	35.80	35.82	35.81
PROGRESSIVE PROGETTO			-14.83	-12.80	-11.50	-10.54	-6.59	-3.04	0.00	2.60	2.98	6.54		10.50	11.42					
PARZIALI PROGETTO				2.03	1.30	0.96	3.95	3.55	2.66	2.60	0.38	3.56	3.96	0.92						
QUOTE PROGETTO			34.63	35.79	35.73	35.76	35.86	35.94	35.95	35.95	35.84	35.85		35.76	35.73					

