



Comune di MINERBIO

Provincia di BOLOGNA



NUOVA CIRCONVALLAZIONE NORD MINERBIO DALLA S.P.44 ALLA S.P.5



COMMITTENTE
ECORED s.r.l.

via Fiumicello, 33/B
Minerbio (BO)
P.IVA 03331681209

PROPRIETA'
ORNELLA GOVONI
FABIO ROSSI

C.F. GVN RLL 64S66 C469W
C.F. RSS FBA 62H29 F219C

P R O G E T T O D E F I N I T I V O

TITOLO:

PROGETTO STRADALE
QUADERNO DI SEZIONI TRASVERSALI

CODIFICA:

PD VI 06

Scala :

VARIE

RAGGRUPPAMENTO TEMPORANEO DI PROFESSIONISTI

CAPOGRUPPO



IS Ingegneria e Servizi S.R.L.S.

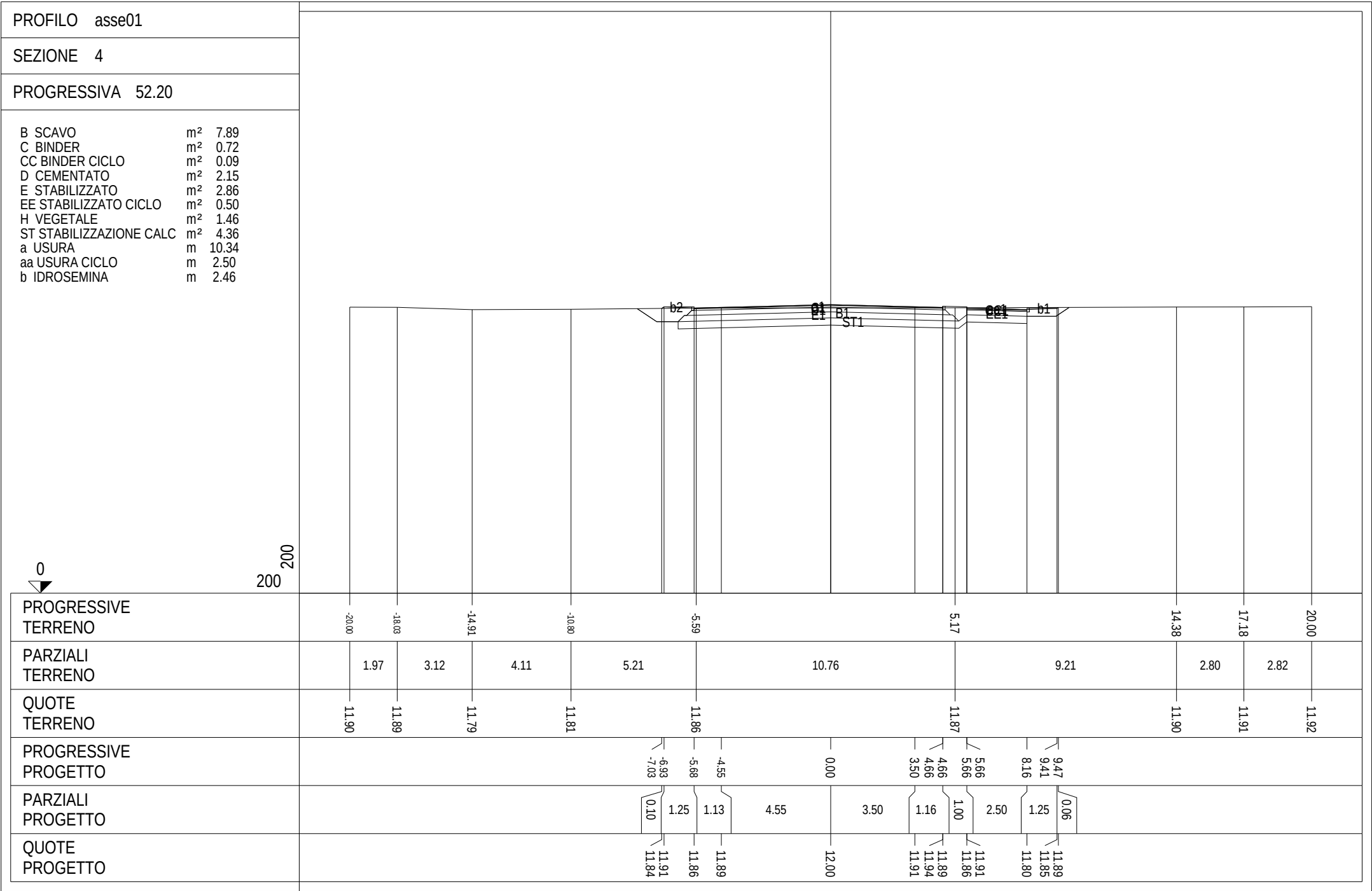
Via Malavolti n. 43 - 41122 MODENA
Tel. 059 350060 - Fax. 059342750
Mail: info@ingegneriaservizi.it
Pec: is-modena@pec.it

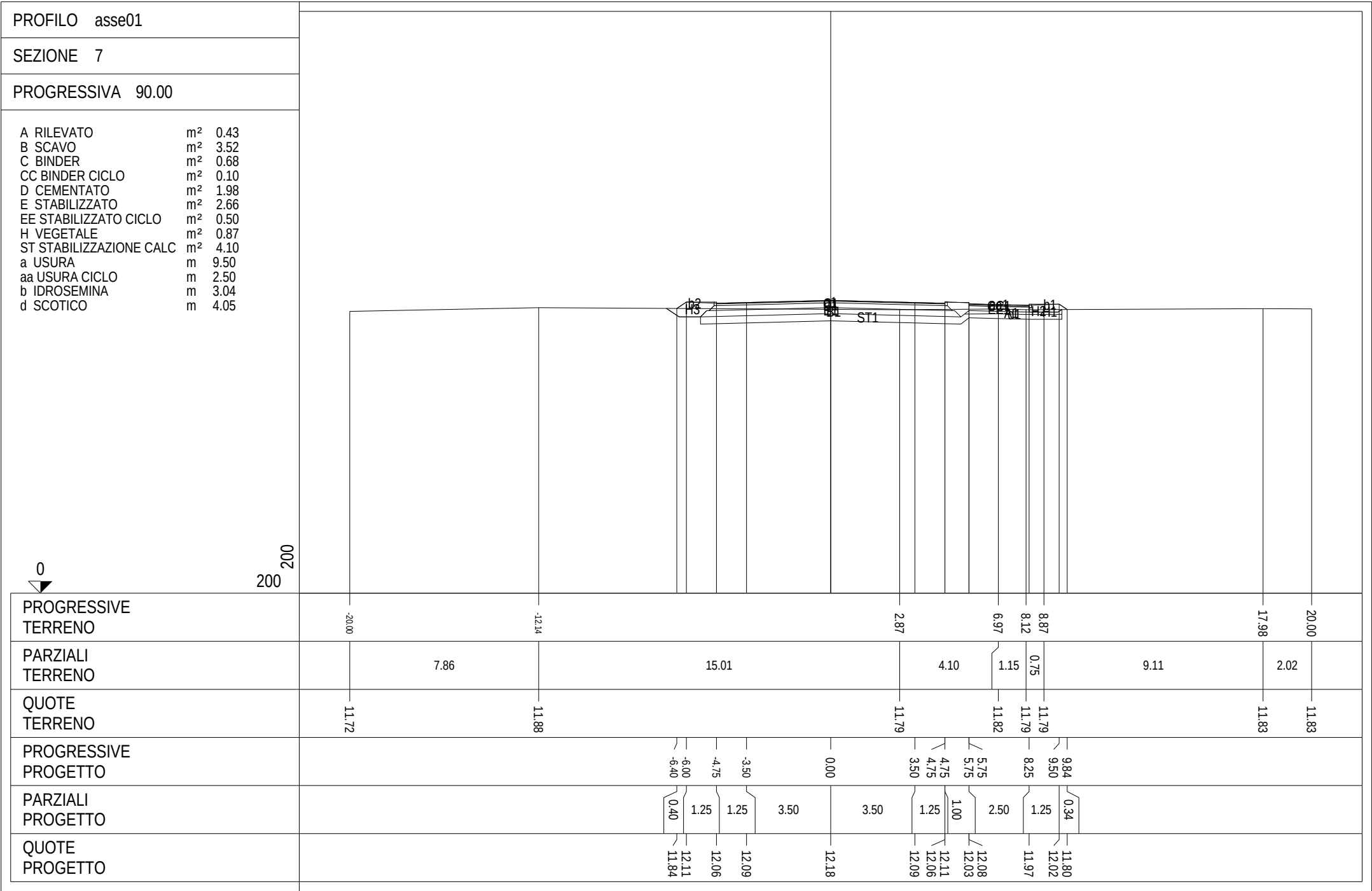
Dott. Ing. Sergio Violetta (Direttore Tecnico)

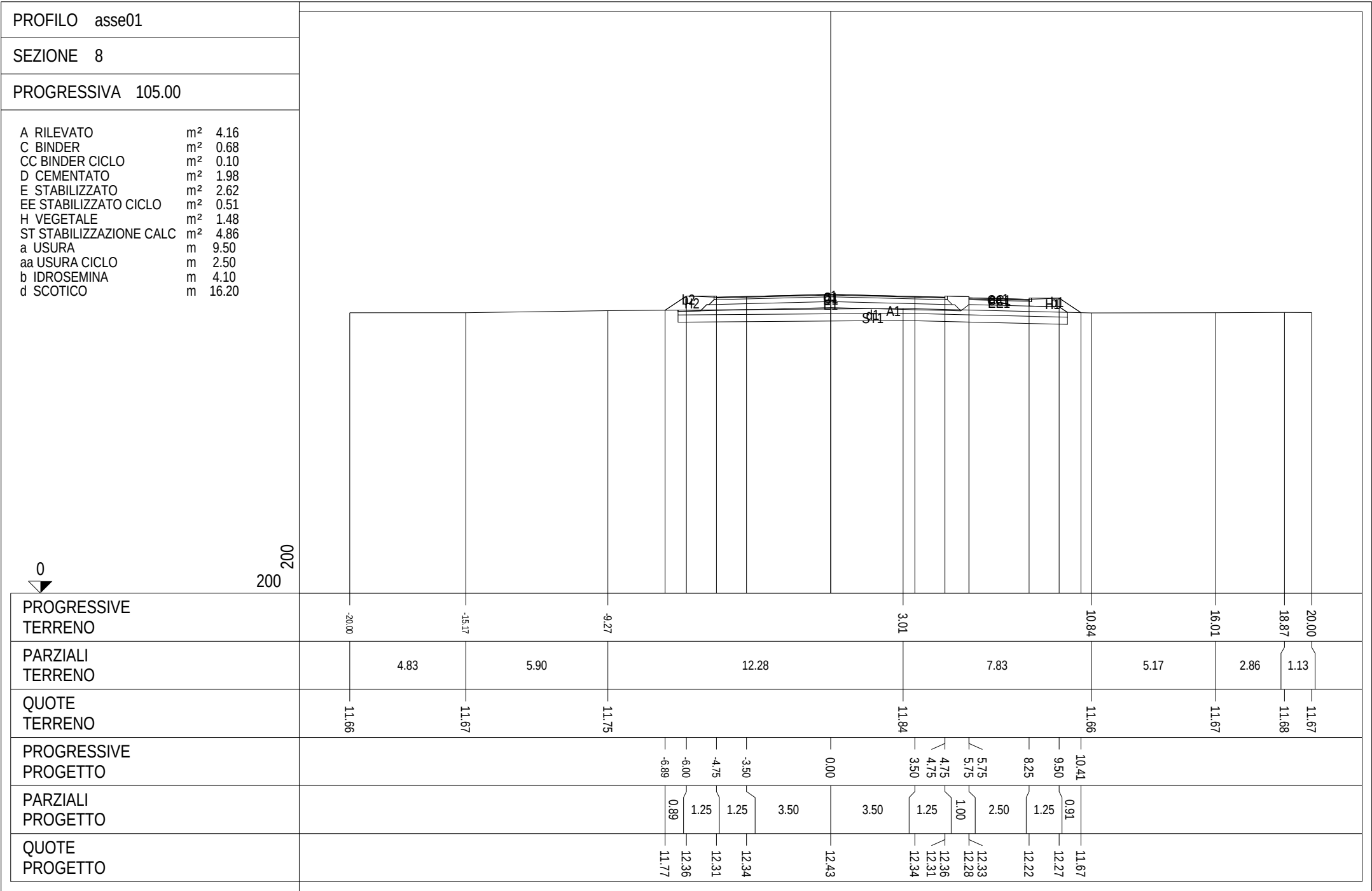
Geom. Tiziano Cavani
Dott. Ing. Manuela Soli
Dott. Ing. Elisa Moruzzi
Ing. Claudio Arnò
Geol. Claudio Preci

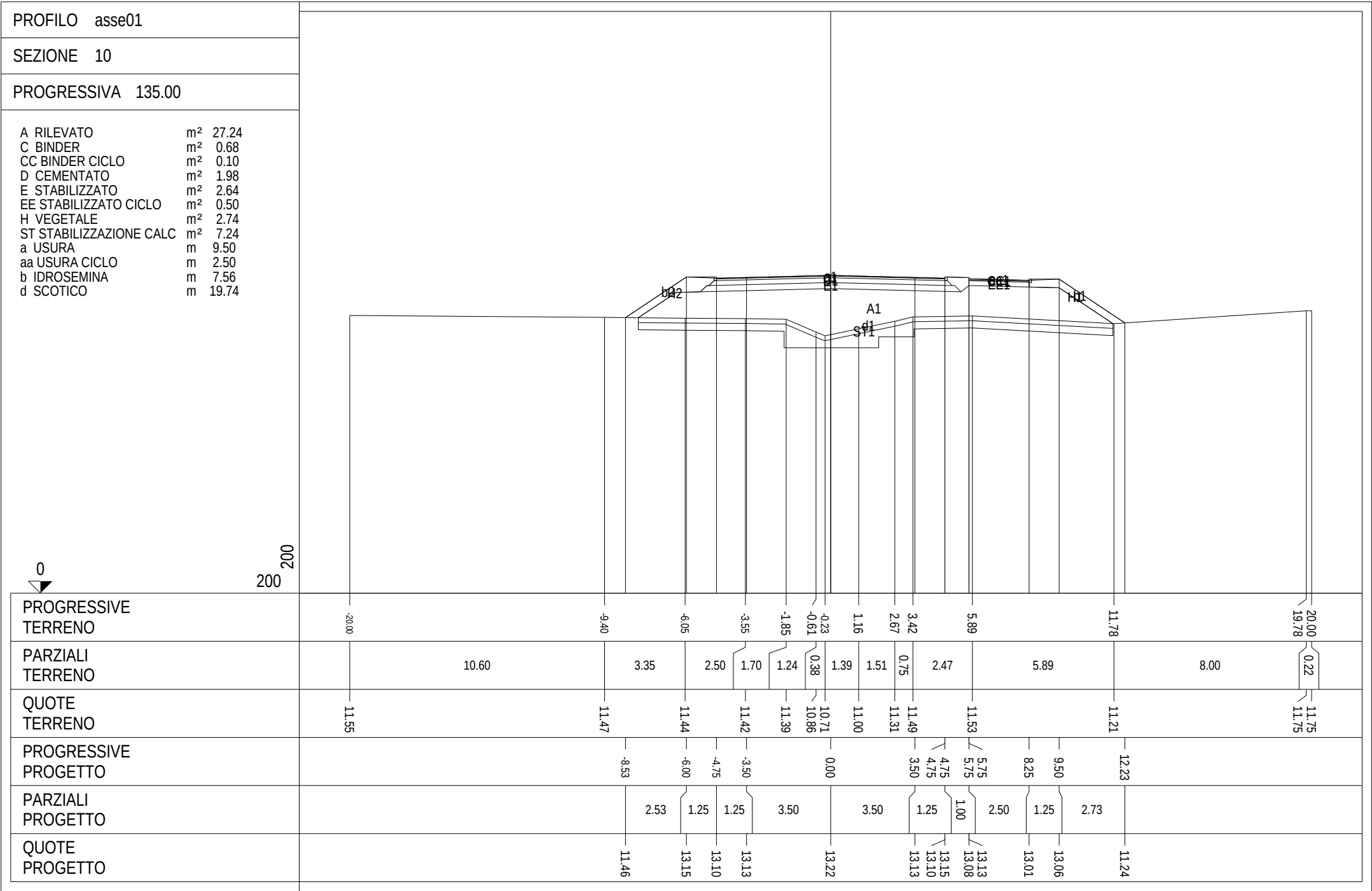
00	Settembre 2022	EMISSIONE	E. MORUZZI	M. SOLI	S. VIOLETTA
REV	DATA	DESCRIZIONE	REDATTO	CONTROLLATO	APPROVATO

ASSE PRINCIPALE







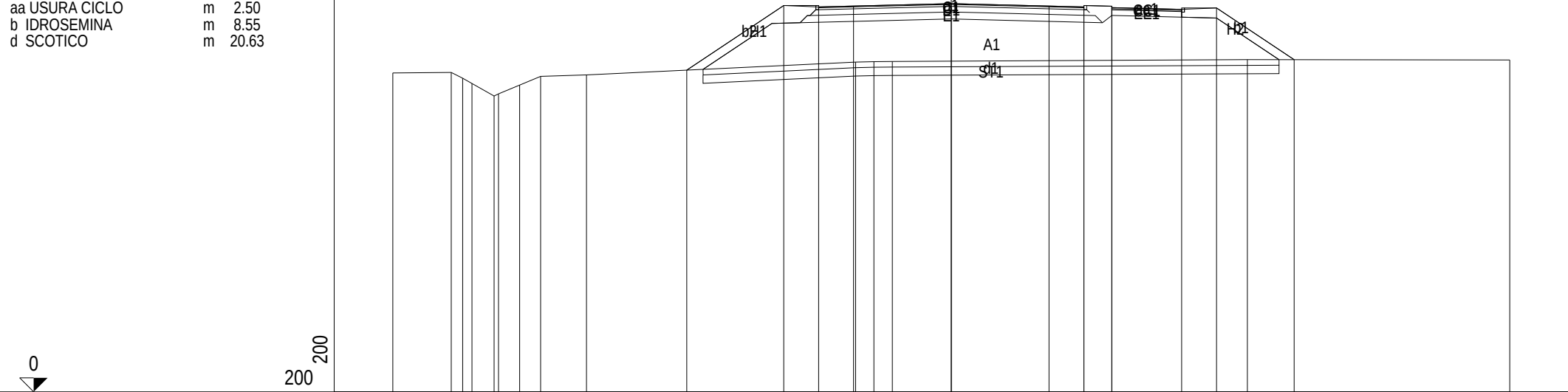


PROFILO asse01

SEZIONE 12

PROGRESSIVA 159.54

A RILEVATO	m²	31.33
C BINDER	m²	0.66
CC BINDER CICLO	m²	0.10
D CEMENTATO	m²	1.98
E STABILIZZATO	m²	2.64
EE STABILIZZATO CICLO	m²	0.50
H VEGETALE	m²	3.11
ST STABILIZZAZIONE CALC	m²	6.20
a USURA	m	9.50
aa USURA CICLO	m	2.50
b IDROSEMINA	m	8.55
d SCOTICO	m	20.63



PROGRESSIVE
TERRENO

-20.00 -17.91 -17.50 -17.37 -16.87 -16.22 -15.46 -14.71 -13.06 -3.48 -2.77 -2.11 10.60 20.00

PARZIALI
TERRENO

2.09 0.41 0.33 0.80 0.15 0.76 0.75 1.65 9.63 0.66 0.66 12.71 9.40

QUOTE
TERRENO

11.43 11.44 11.24 11.05 10.60 10.68 10.99 11.30 11.35 11.81 11.83 11.84 11.90 11.89

PROGRESSIVE
PROGETTO

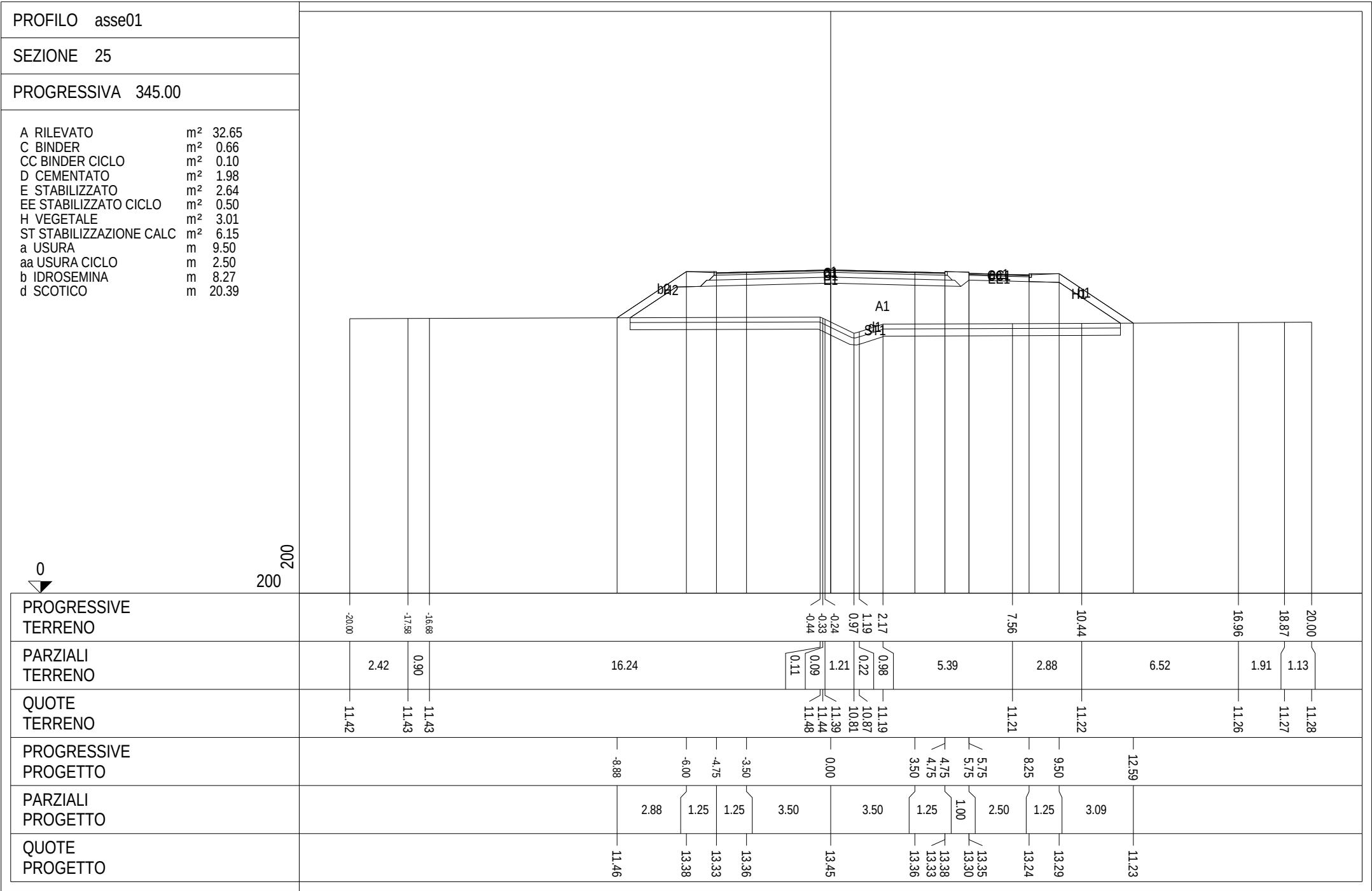
-9.47 -6.00 -4.75 -3.50 0.00 3.50 4.75 5.75 5.75 8.25 9.50 12.28

PARZIALI
PROGETTO

3.47 1.25 1.25 3.50 3.50 1.25 1.00 2.50 1.25 2.78

QUOTE
PROGETTO

11.53 13.84 13.79 13.82 13.91 13.82 13.79 13.84 13.82 13.70 13.75 11.90

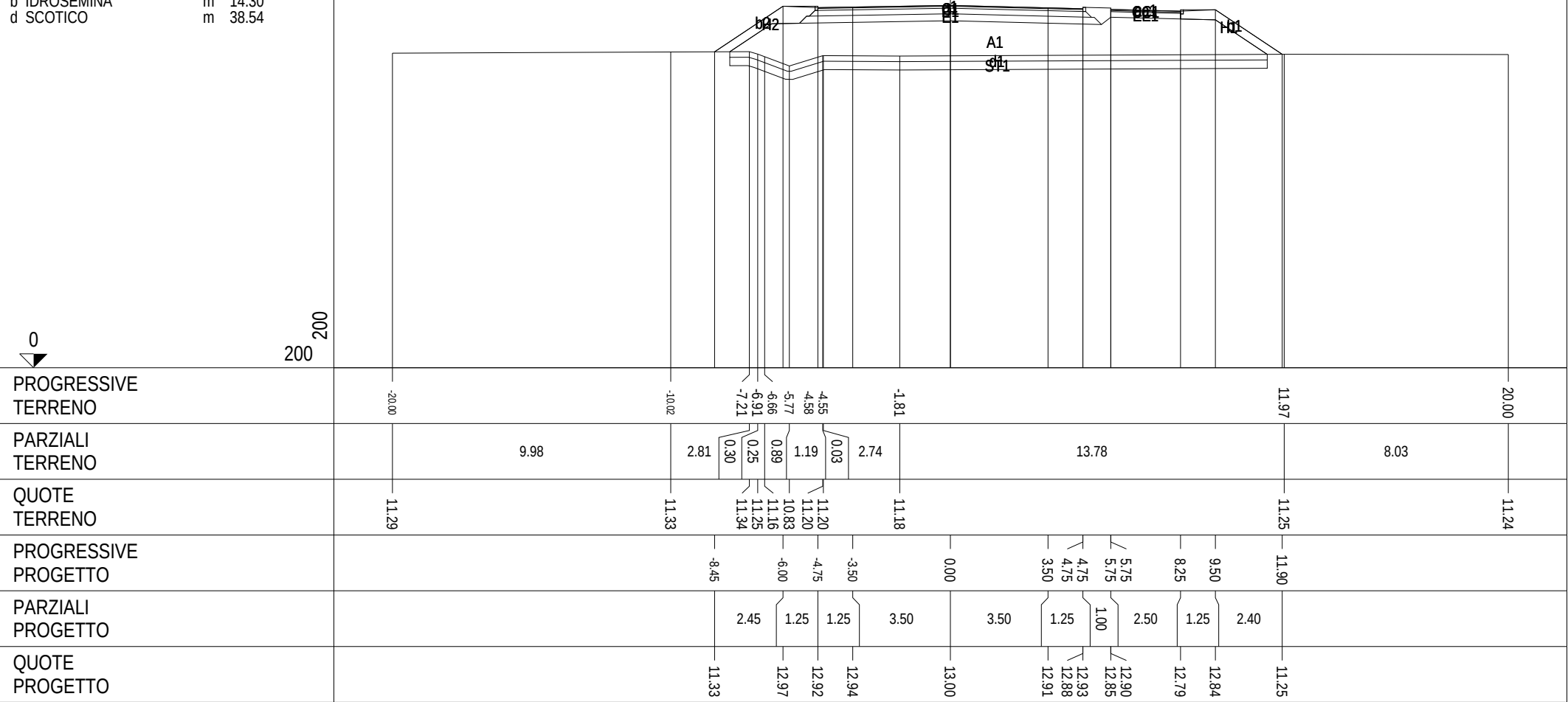


PROFILO asse01

SEZIONE 27

PROGRESSIVA 360.00

A RILEVATO	m²	51.42
C BINDER	m²	1.34
CC BINDER CICLO	m²	0.20
D CEMENTATO	m²	3.96
E STABILIZZATO	m²	5.28
EE STABILIZZATO CICLO	m²	1.00
H VEGETALE	m²	5.22
ST STABILIZZAZIONE CALC	m²	11.56
a USURA	m	19.00
aa USURA CICLO	m	5.00
b IDROSEMINA	m	14.30
d SCOTICO	m	38.54

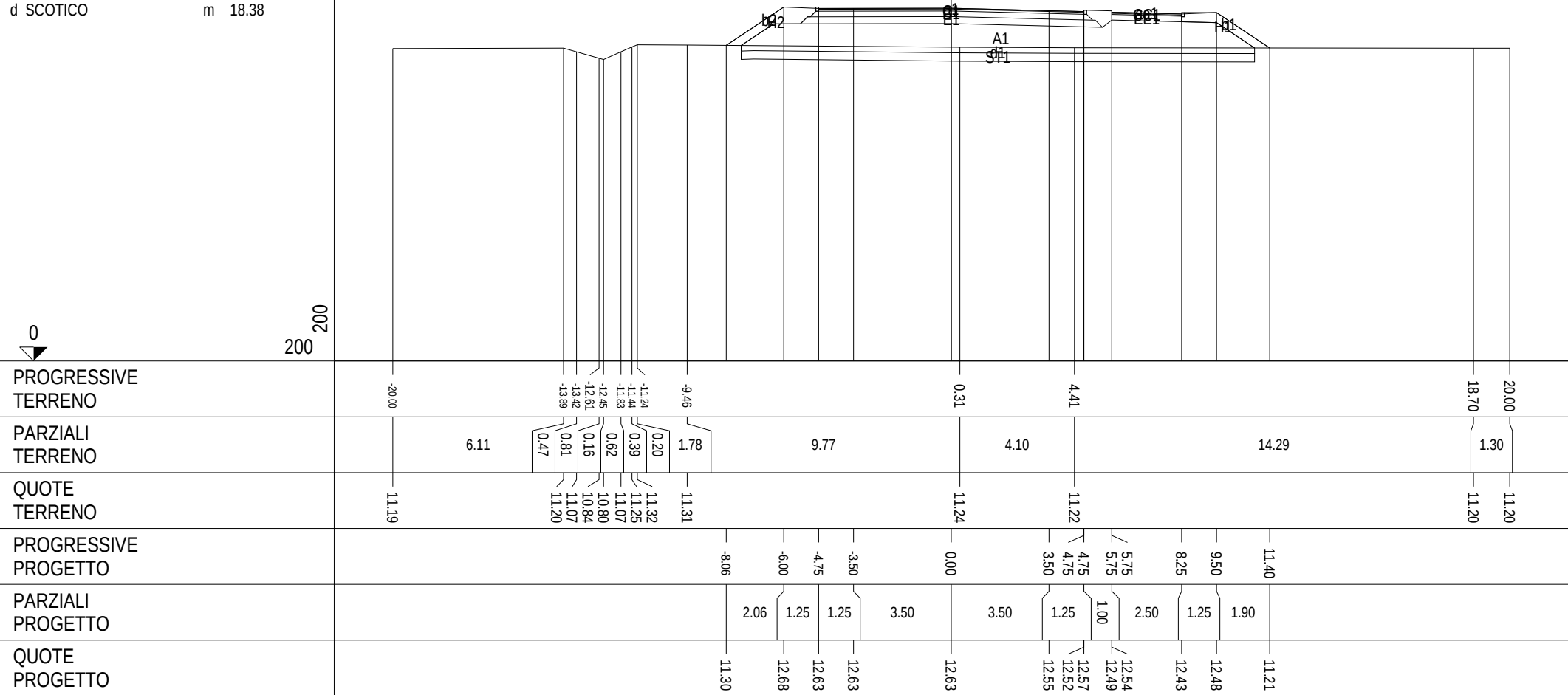


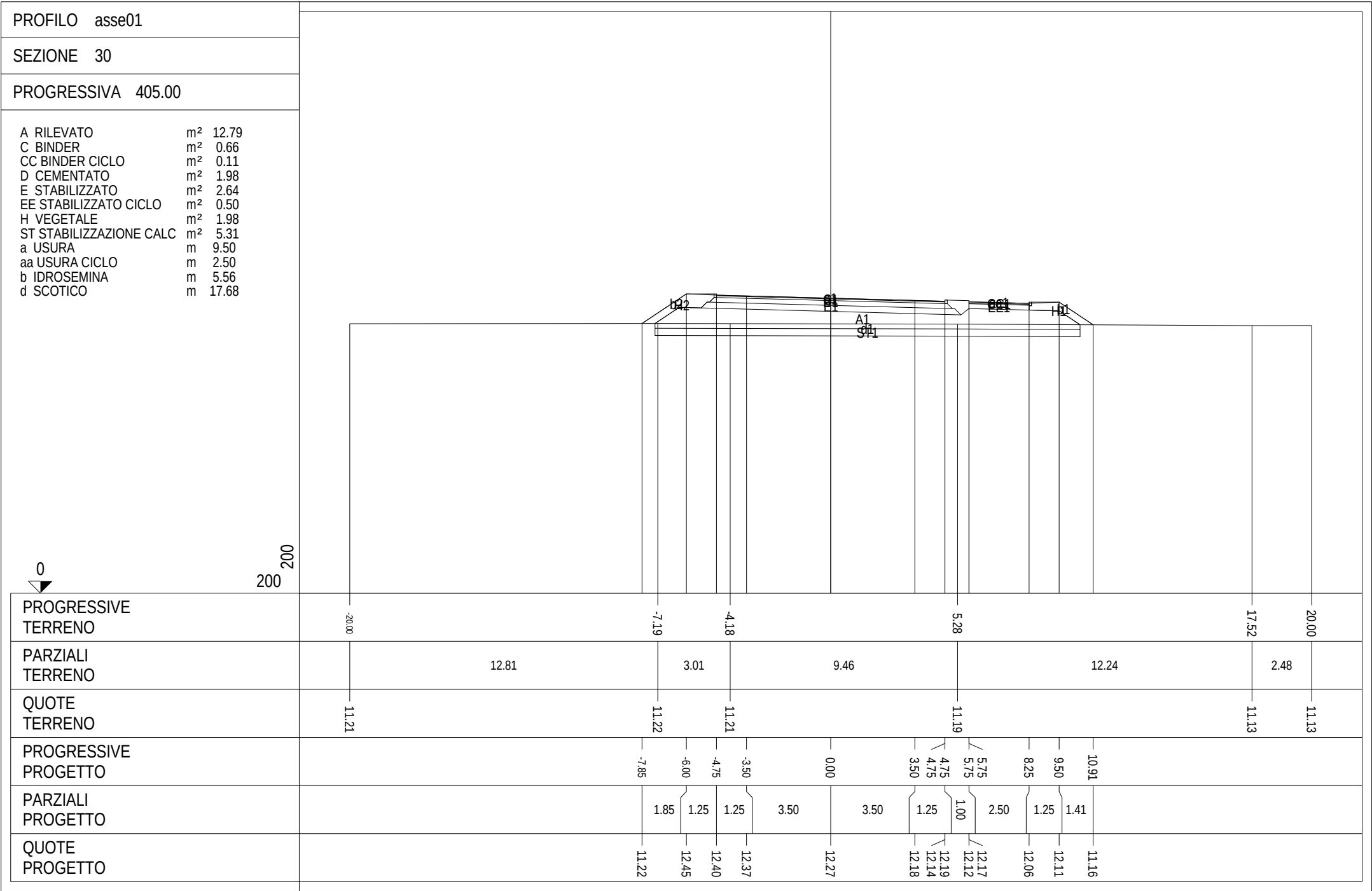
PROFILO asse01

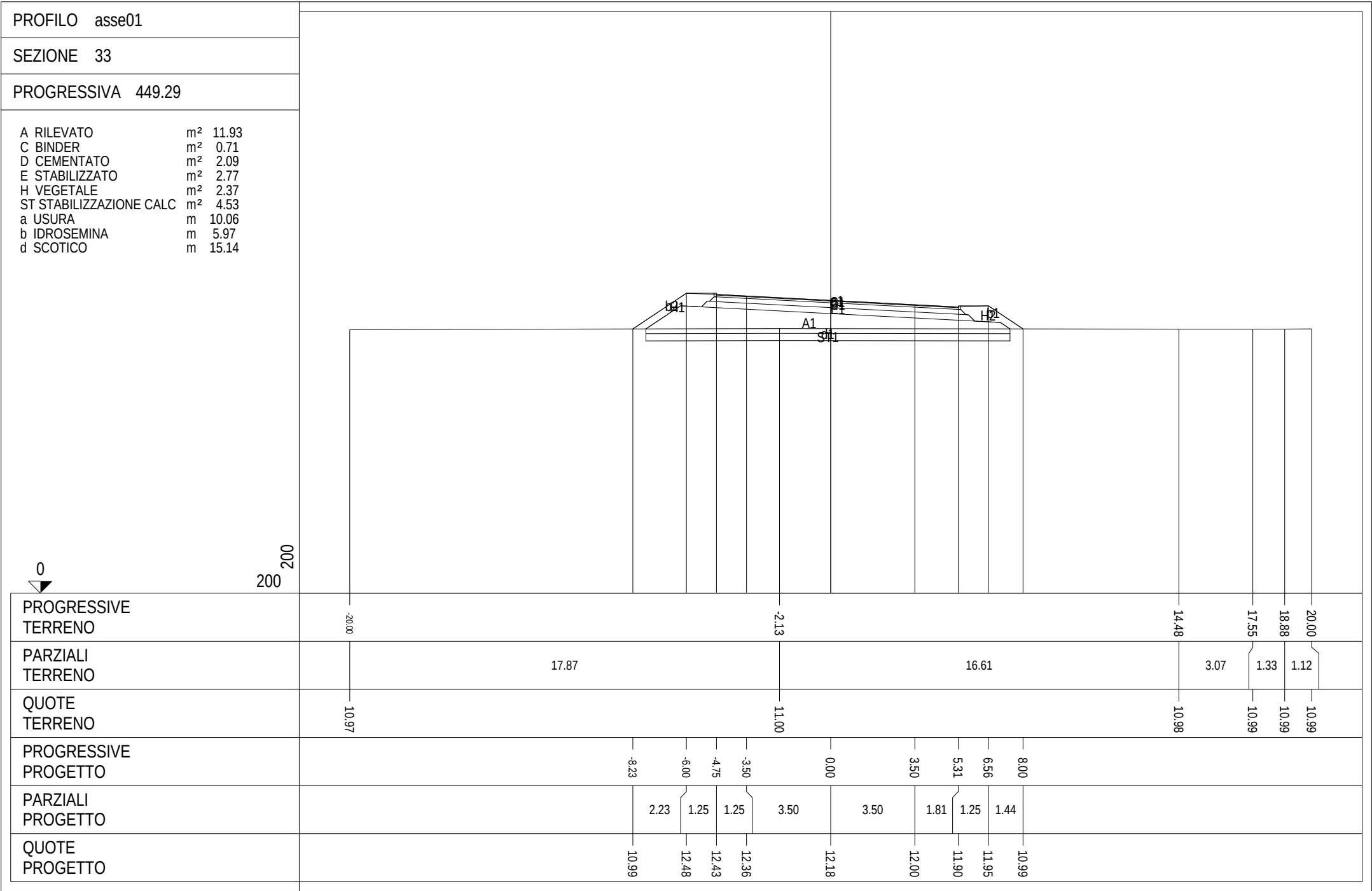
SEZIONE 28

PROGRESSIVA 375.00

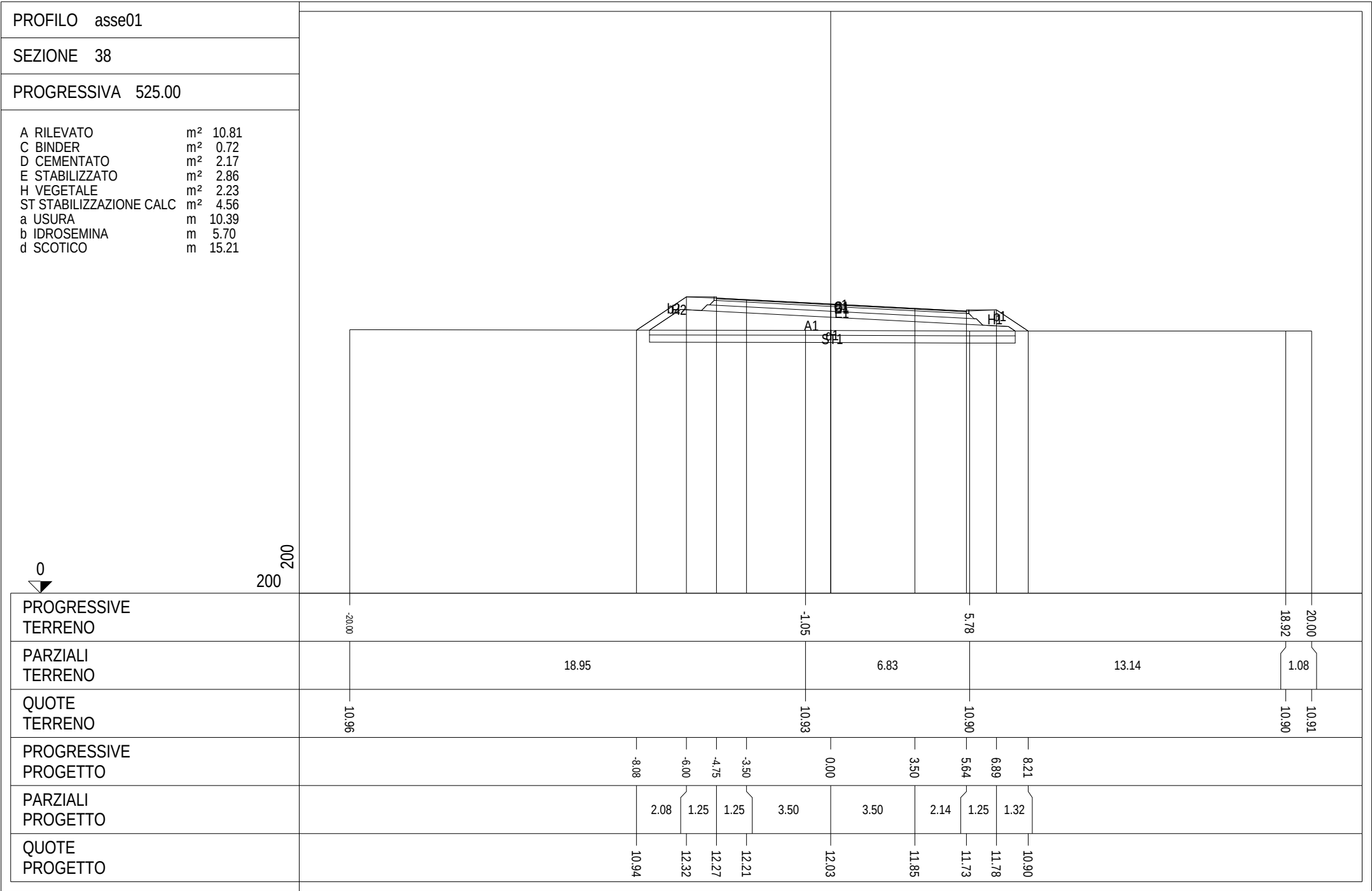
A RILEVATO	m²	17.97
C BINDER	m²	0.66
CC BINDER CICLO	m²	0.10
D CEMENTATO	m²	1.98
E STABILIZZATO	m²	2.65
EE STABILIZZATO CICLO	m²	0.50
H VEGETALE	m²	2.28
ST STABILIZZAZIONE CALC	m²	5.52
a USURA	m	9.50
aa USURA CICLO	m	2.50
b IDROSEMINA	m	6.26
d SCOTICO	m	18.38



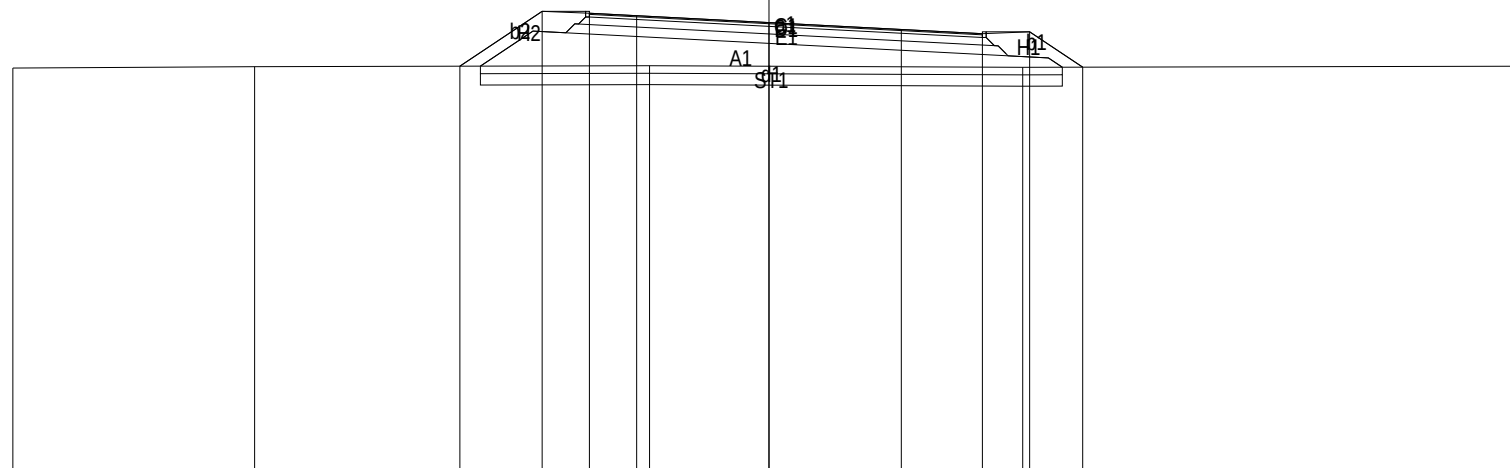




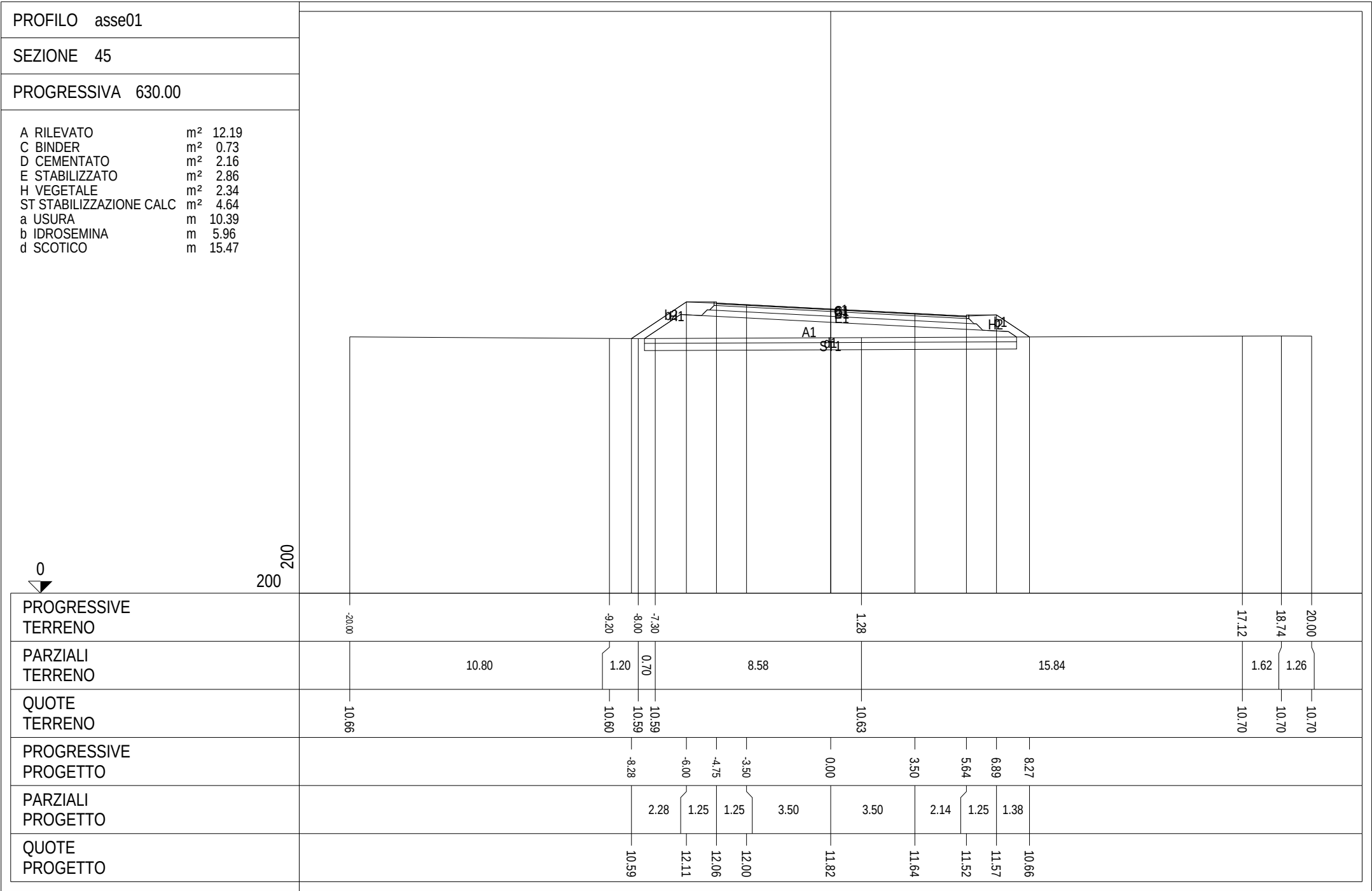
QUOTE PROGETTO



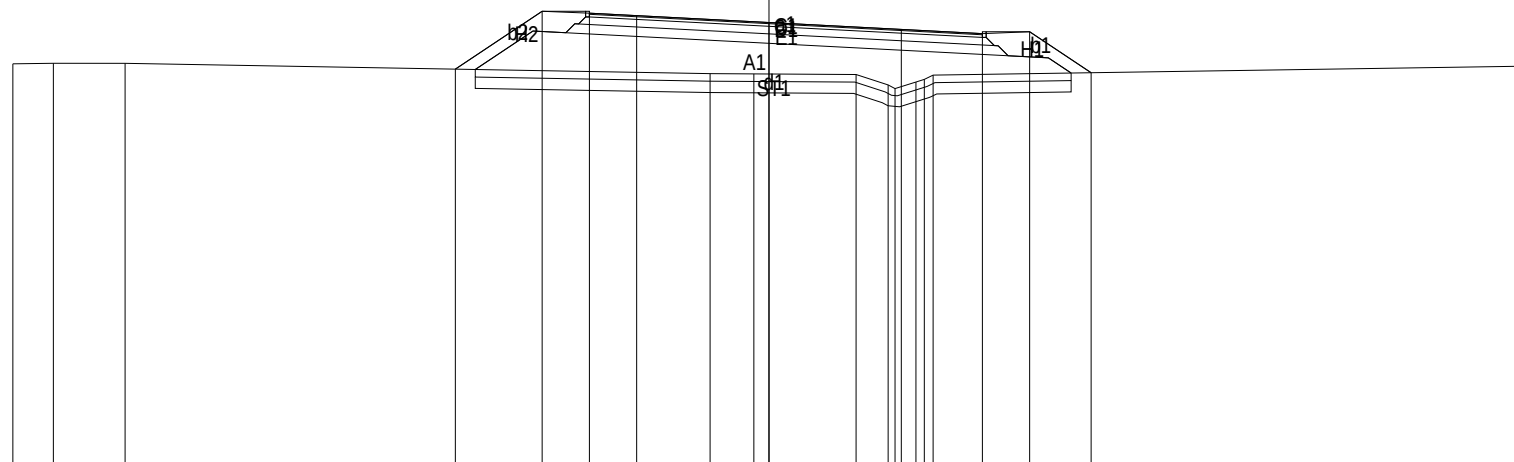
A RILEVATO	m ²	11.62
C BINDER	m ²	0.73
D CEMENTATO	m ²	2.15
E STABILIZZATO	m ²	2.87
H VEGETALE	m ²	2.31
ST STABILIZZAZIONE CALC	m ²	4.62
a USURA	m	10.39
b IDROSEMINA	m	5.89
d SCOTICO	m	15.39



PROGRESSIVE TERRENO	20.00	6.71	-3.16	-13.61	-20.00
PARZIALI TERRENO	13.29	9.87	10.45	6.39	
QUOTE TERRENO	10.75	10.72	10.77	10.74	10.70
PROGRESSIVE PROGETTO	8.30	6.89	5.64	3.50	0.00
PARZIALI PROGETTO	1.41	1.25	2.14	3.50	3.50
QUOTE PROGETTO	10.73	11.66	11.61	11.73	11.91



A RILEVATO	m ²	14.93
C BINDER	m ²	0.72
D CEMENTATO	m ²	2.15
E STABILIZZATO	m ²	2.88
H VEGETALE	m ²	2.42
ST STABILIZZAZIONE CALC	m ²	4.77
a USURA	m	10.39
b IDROSEMINA	m	6.23
d SCOTICO	m	15.76



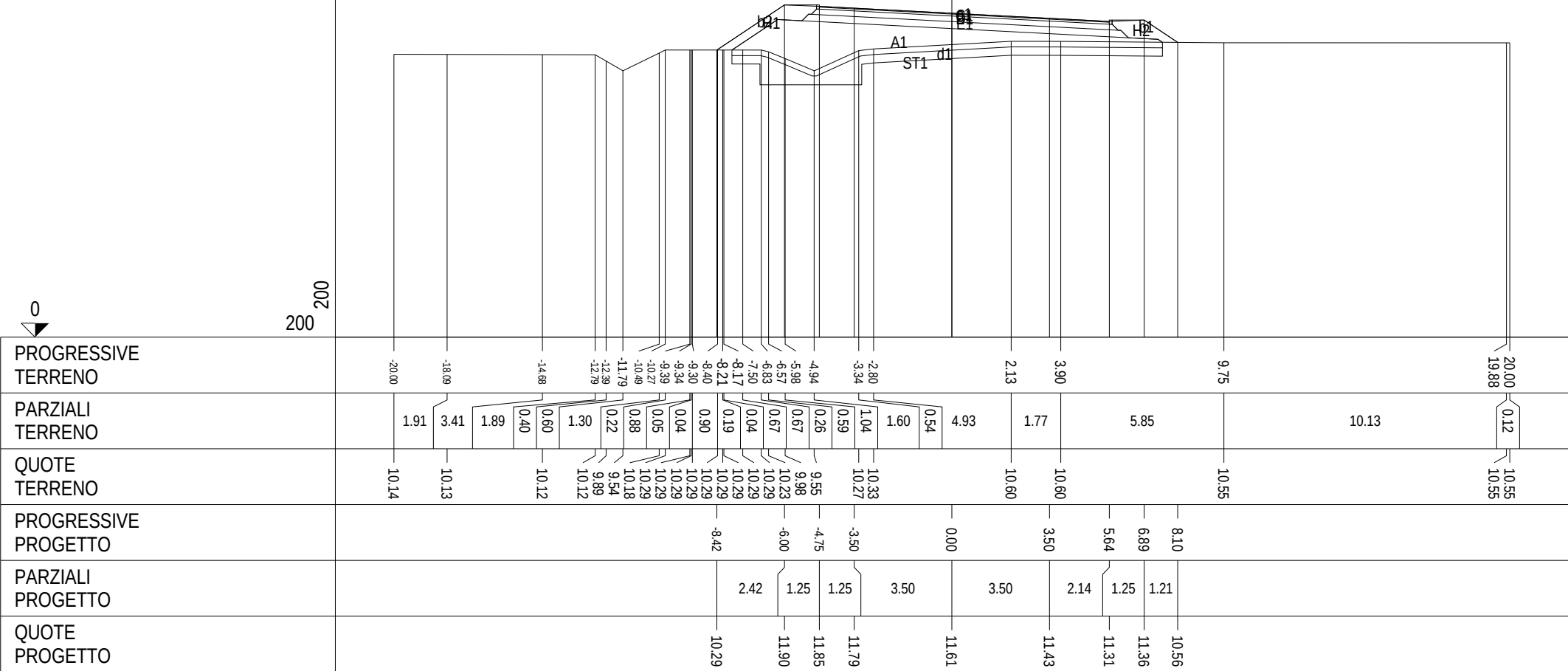
PROGRESSIVE TERRENO	20.00	4.34	4.11	3.89	3.33	3.15	2.30	-0.40	-1.56	-17.03	-18.93	-20.00
PARZIALI TERRENO	15.66	0.23	0.22	0.56	0.18	0.85	2.70	1.16	15.47	1.90	1.07	
QUOTE TERRENO	10.54	10.31	10.19	10.12	9.95	10.05	10.32	10.34	10.35	10.62	10.62	10.60
PROGRESSIVE PROGETTO	8.52	5.64	3.50	0.00	-3.50	-4.75	-6.00	-8.30				
PARZIALI PROGETTO	1.63	1.25	2.14	3.50	3.50	1.25	1.25	2.30				
QUOTE PROGETTO	10.37	11.40	11.52	11.70	11.88	11.94	11.99	10.46				

PROFILO asse01

SEZIONE 53

PROGRESSIVA 735.00

A RILEVATO	m²	12.93
C BINDER	m²	0.73
D CEMENTATO	m²	2.16
E STABILIZZATO	m²	2.86
H VEGETALE	m²	2.31
ST STABILIZZAZIONE CALC	m²	6.01
a USURA	m	10.39
b IDROSEMINA	m	5.93
d SCOTICO	m	15.43

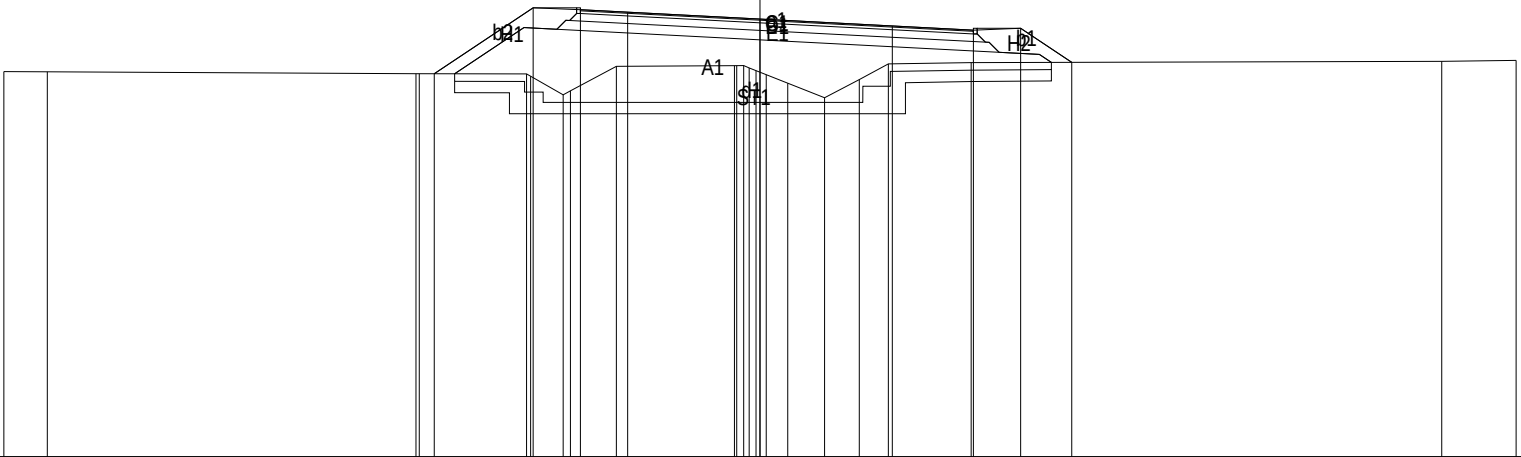


PROFILO asse01

SEZIONE 54

PROGRESSIVA 750.00

A RILEVATO	m²	19.95
C BINDER	m²	0.73
D CEMENTATO	m²	2.17
E STABILIZZATO	m²	2.86
H VEGETALE	m²	2.44
ST STABILIZZAZIONE CALC	m²	5.76
a USURA	m	10.39
b IDROSEMINA	m	6.28
d SCOTICO	m	15.79



PROGRESSIVE
TERRENO

-20.00	-18.85	-9.01	-6.17	-5.21	-5.01	-3.80	-0.88	-0.62	-0.43	-0.29	-0.10	0.17	0.73	1.71	2.63	3.40	5.59	18.03	20.00
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PARZIALI
TERRENO

1.15	9.75	0.09	2.84	0.10	0.86	0.20	1.21	3.12	0.06	0.19	0.14	0.19	0.27	0.56	0.98	0.92	0.77	2.19	12.44	1.97
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QUOTE
TERRENO

10.19	10.18	10.13	10.13	10.13	9.57	9.68	10.33	10.34	10.35	10.28	10.21	10.11	9.88	9.50	9.98	10.39	10.43	10.46	10.48
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PROGRESSIVE
PROGETTO

-8.62	-4.75	-6.00	-3.50	0.00	3.50	5.64	6.89	8.25	10.43	11.28	11.33	10.43	11.58	11.40	11.28	11.33	10.43	11.58	11.40	11.28
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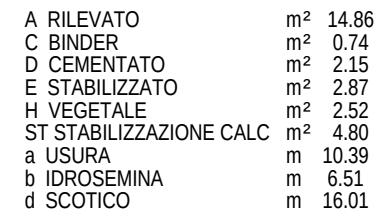
PARZIALI
PROGETTO

2.62	1.25	1.25	3.50	3.50	2.14	1.25	1.36	10.43	11.28	11.33	10.43	11.58	11.40	11.28	11.33	10.43	11.58	11.40	11.28	11.33
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QUOTE
PROGETTO

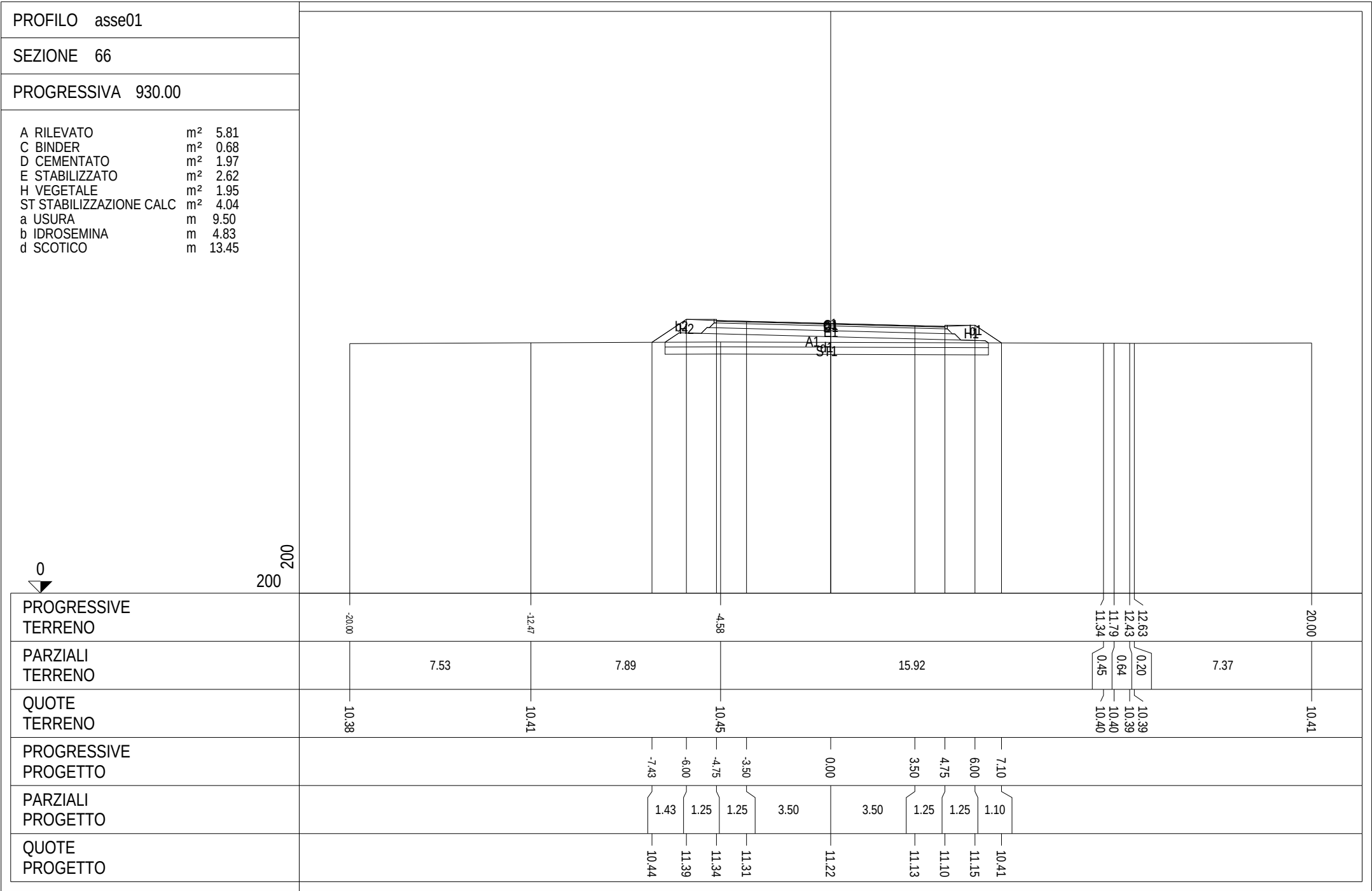
10.13	11.87	11.82	11.76	11.58	11.40	11.28	11.33	10.43	11.58	11.40	11.28	11.33	10.43	11.58	11.40	11.28	11.33	10.43	11.58	11.40	11.28
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[illegible]



QUOTE
PROGETTO

QUOTE
PROGETTO

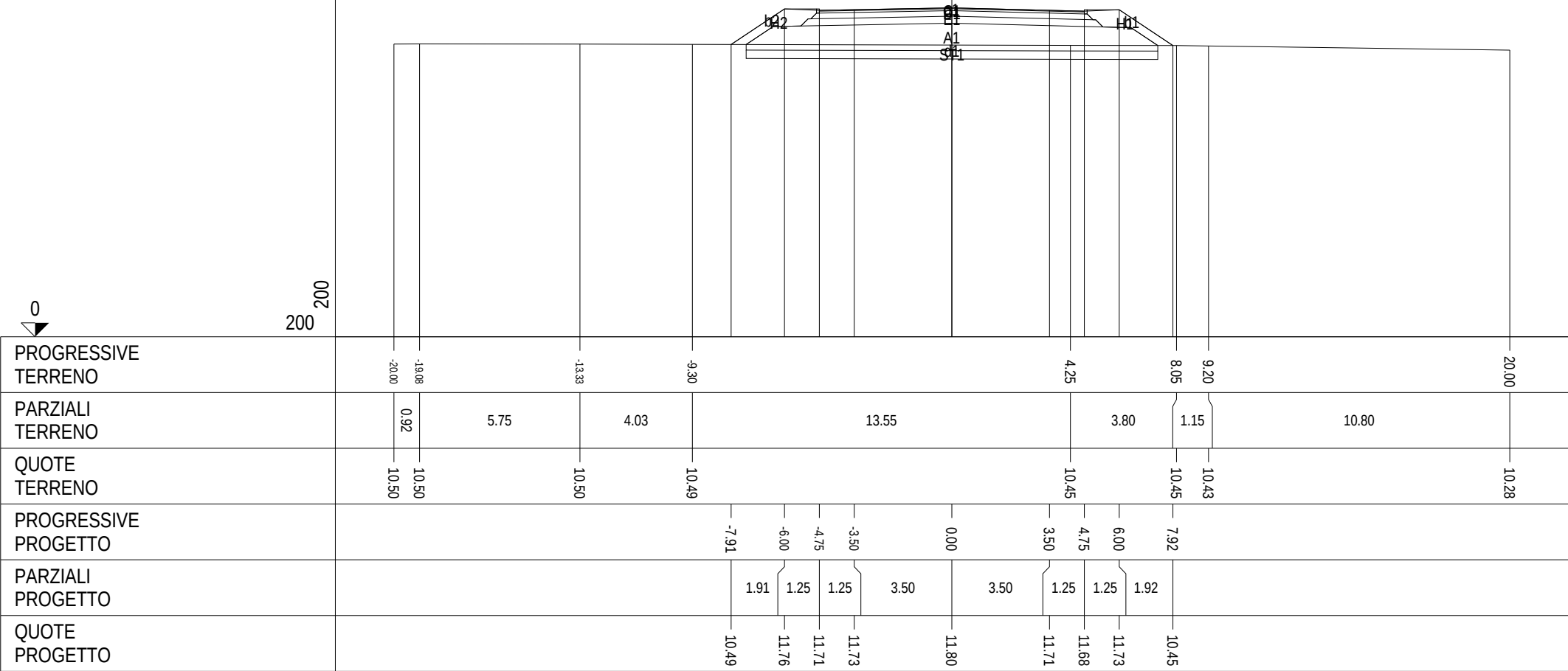


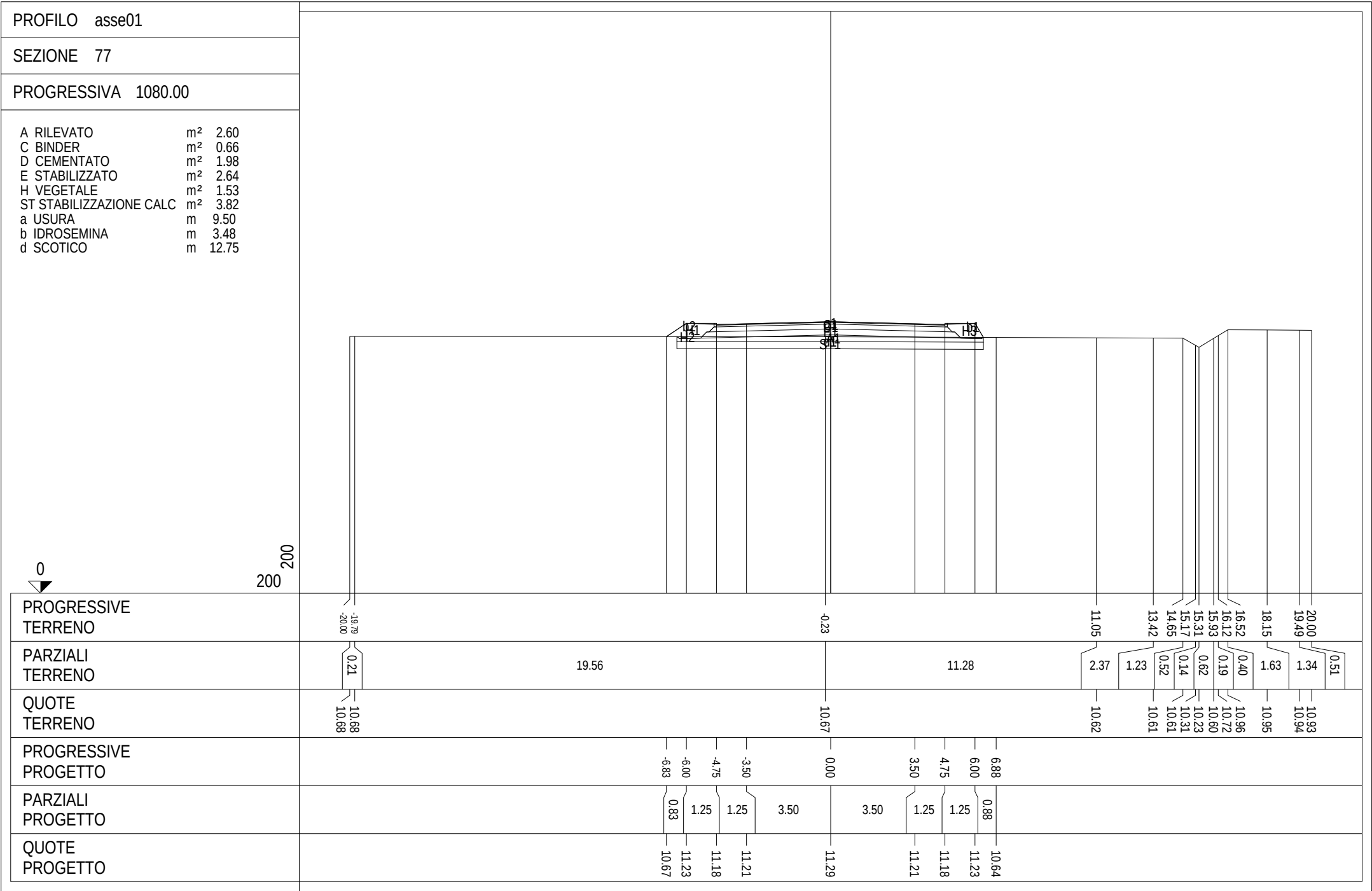
PROFILO asse01

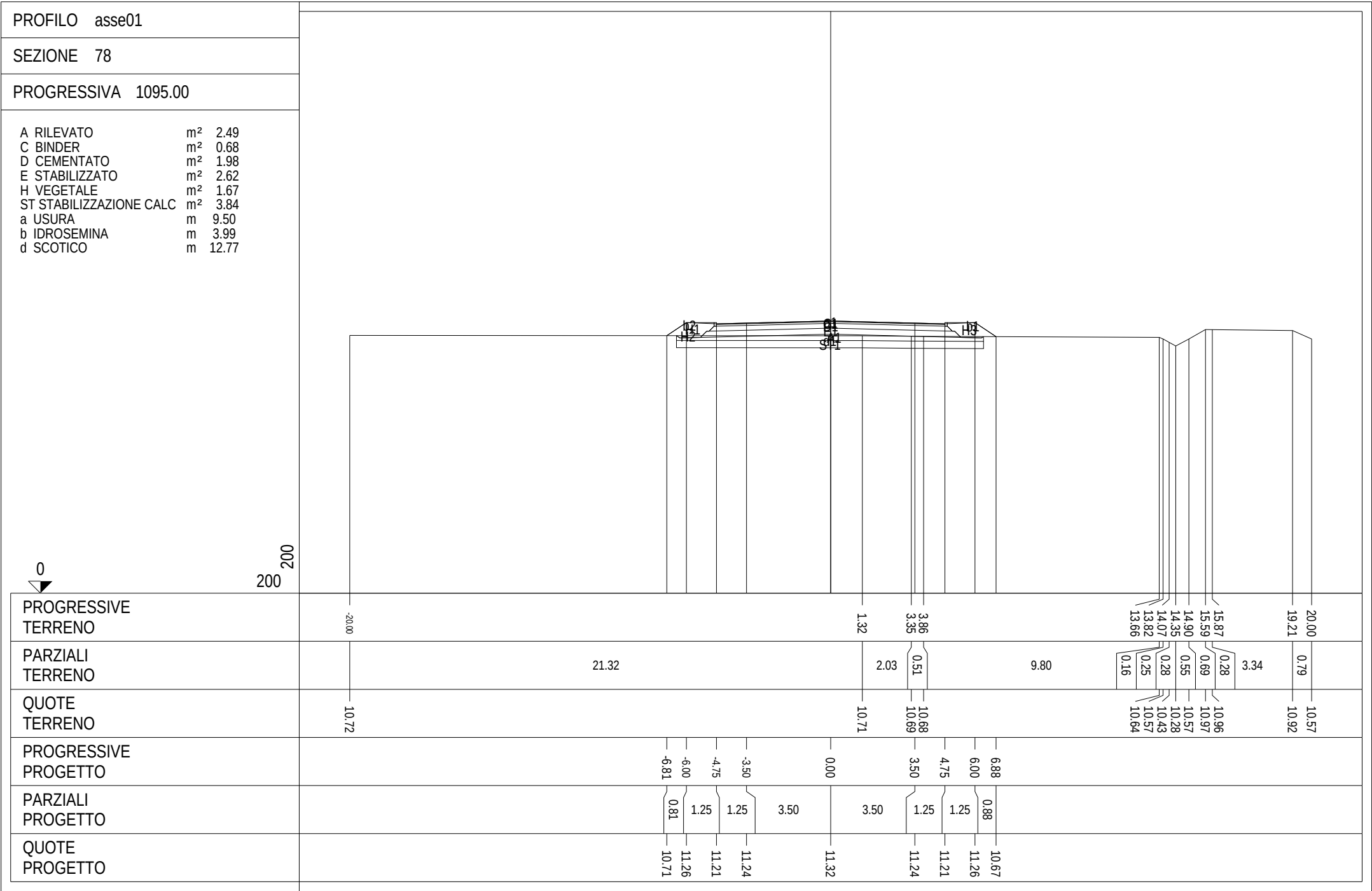
SEZIONE 69

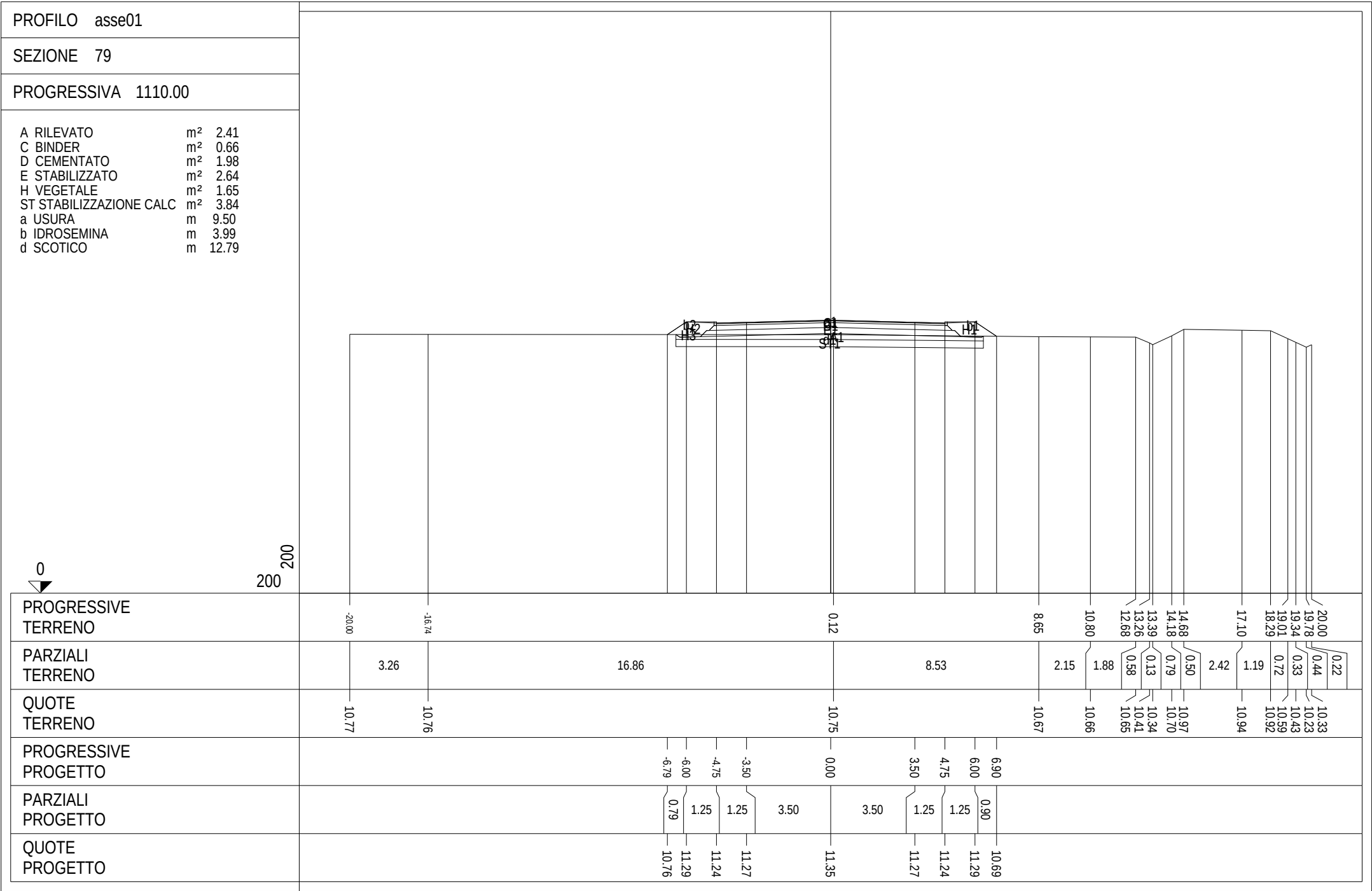
PROGRESSIVA 975.00

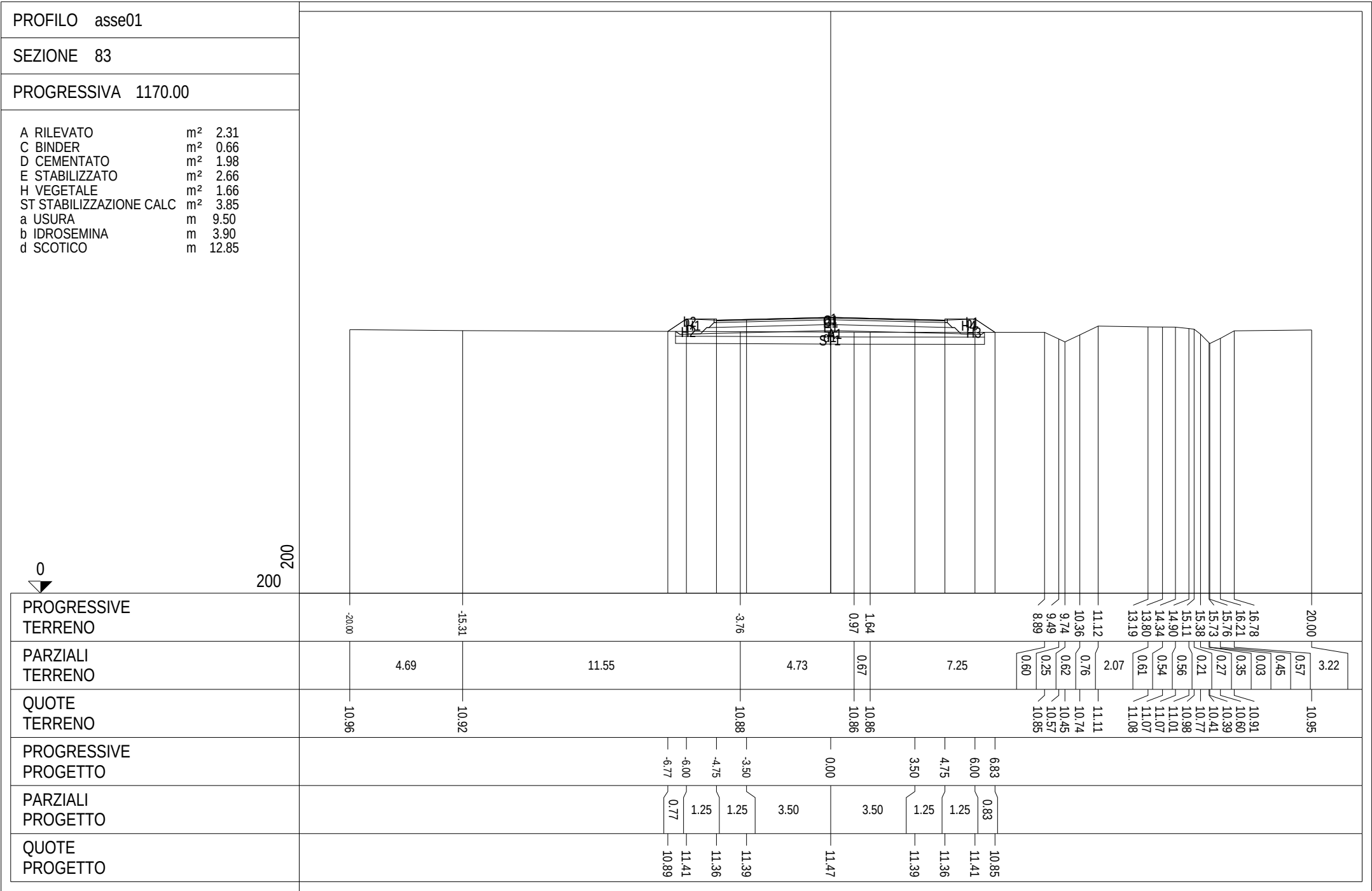
A RILEVATO	m²	12.77
C BINDER	m²	0.66
D CEMENTATO	m²	1.98
E STABILIZZATO	m²	2.66
H VEGETALE	m²	2.45
ST STABILIZZAZIONE CALC	m²	4.43
a USURA	m	9.50
b IDROSEMINA	m	6.13
d SCOTICO	m	14.75

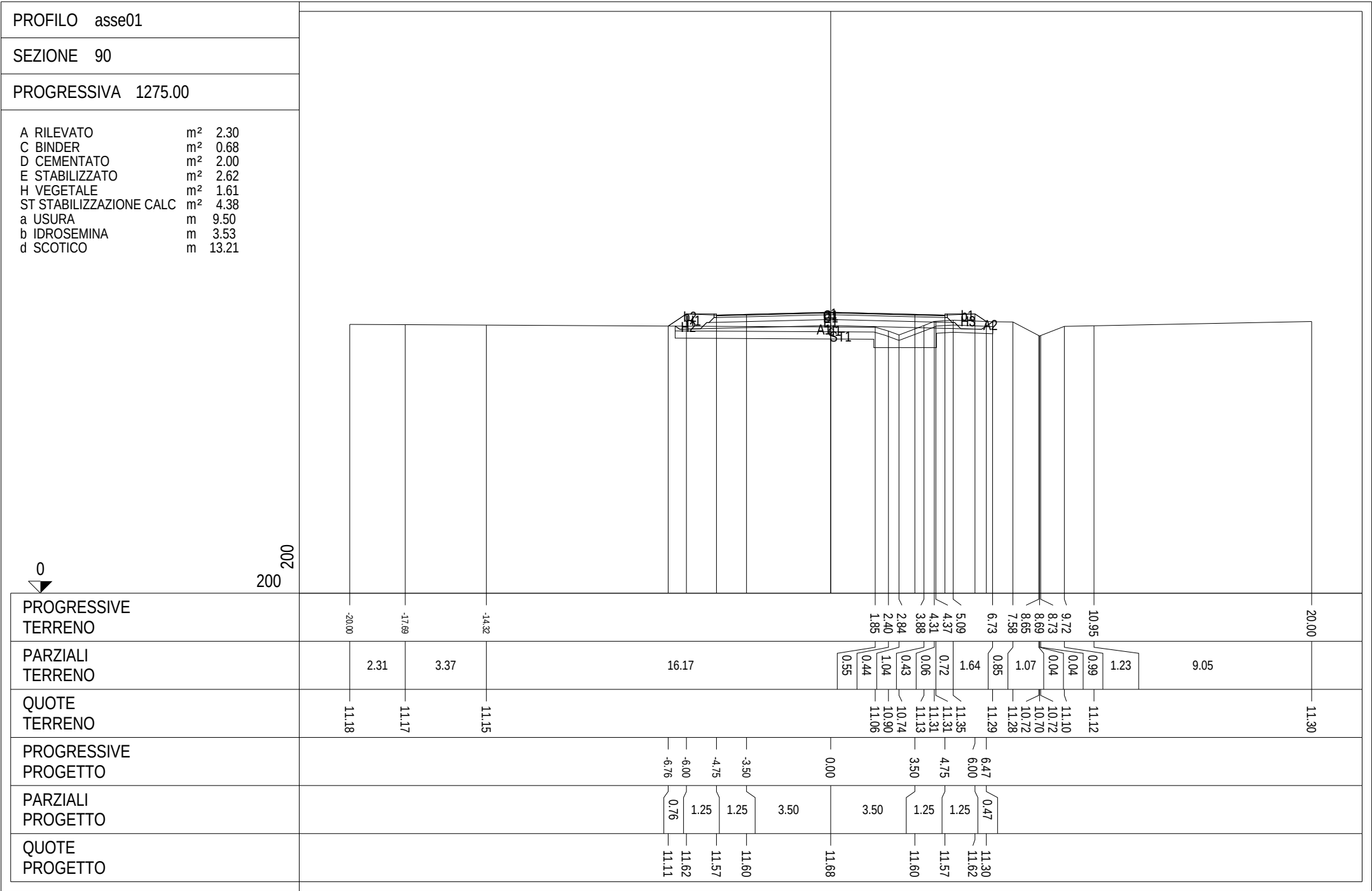


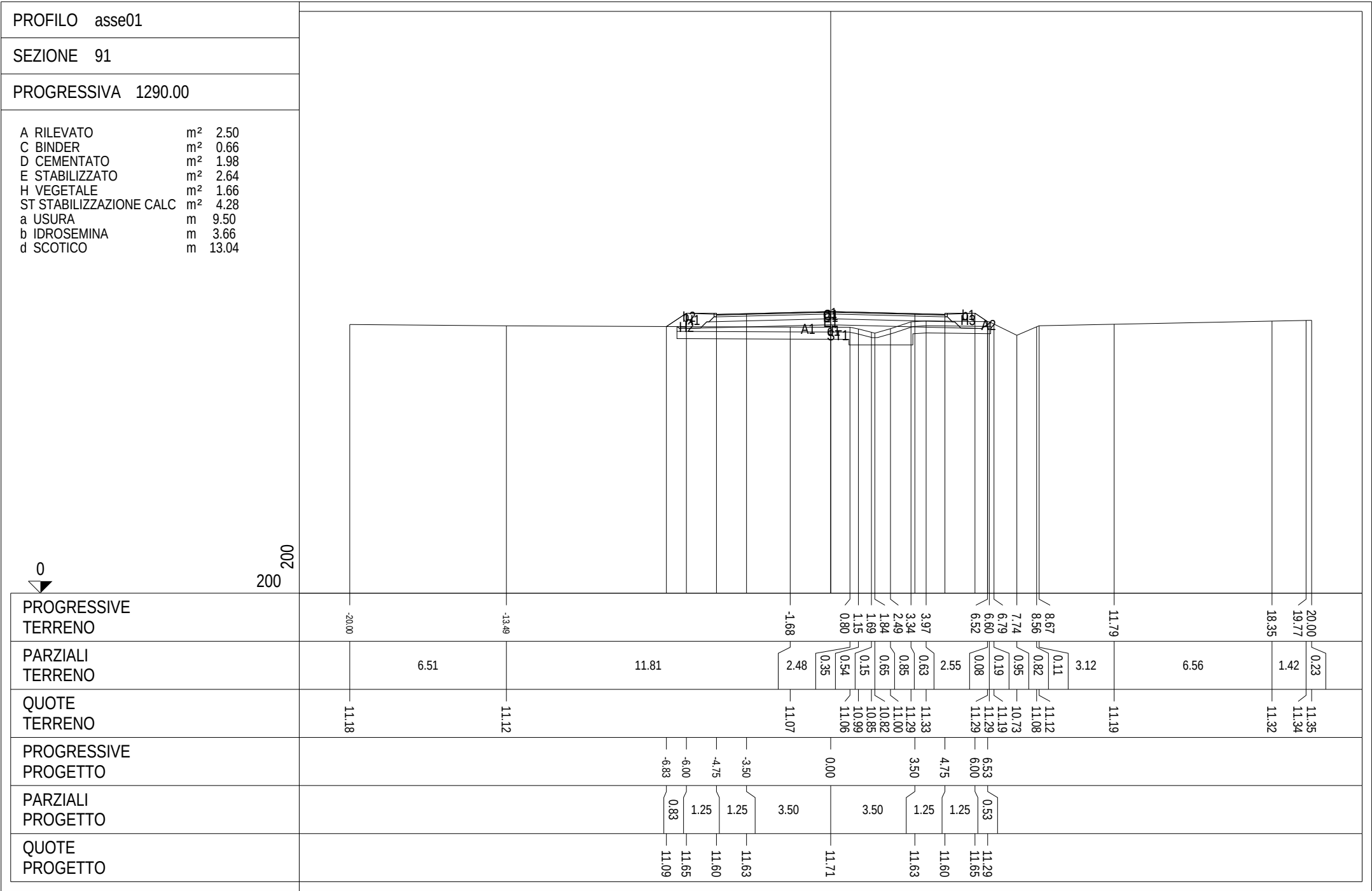


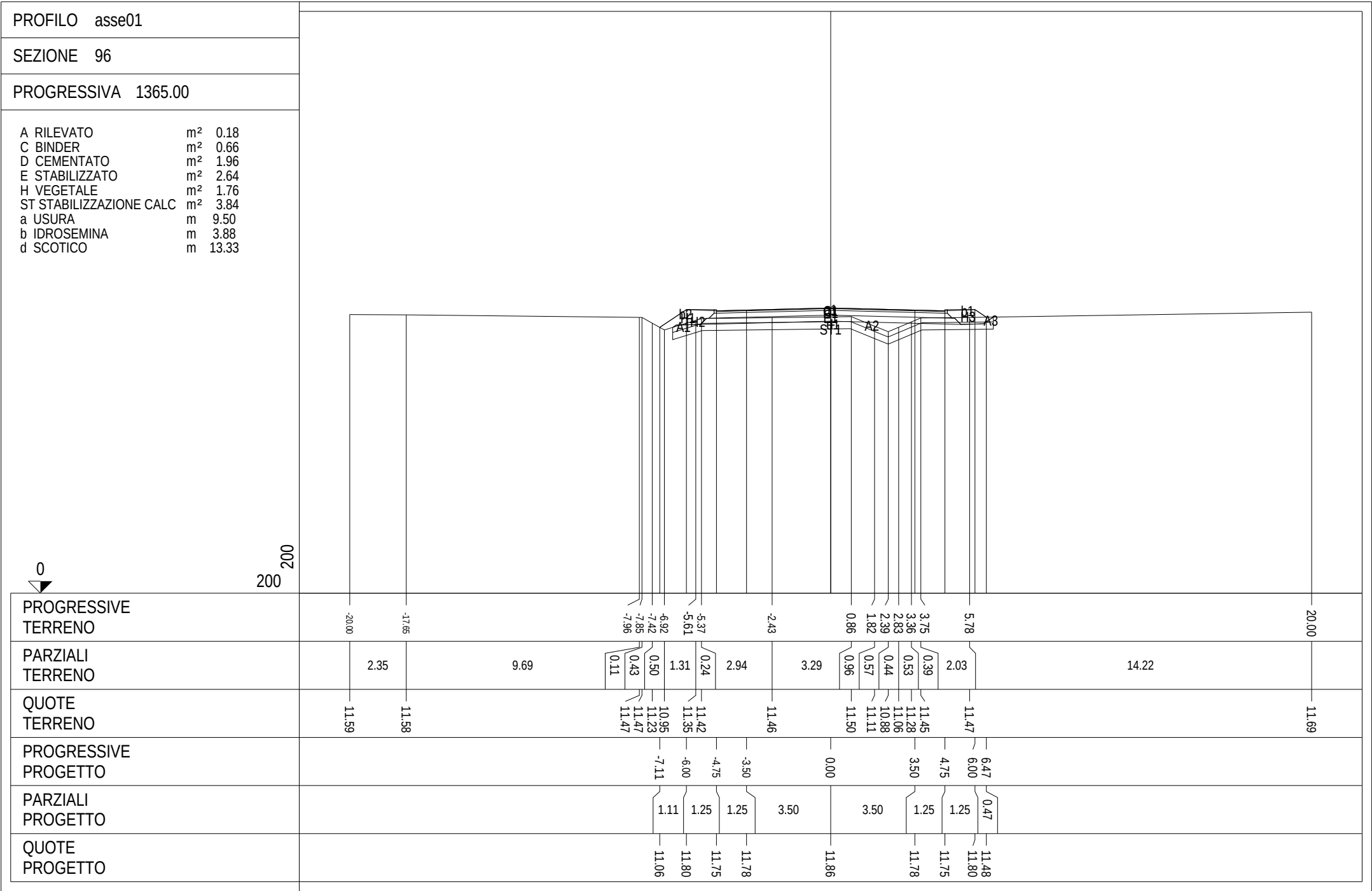


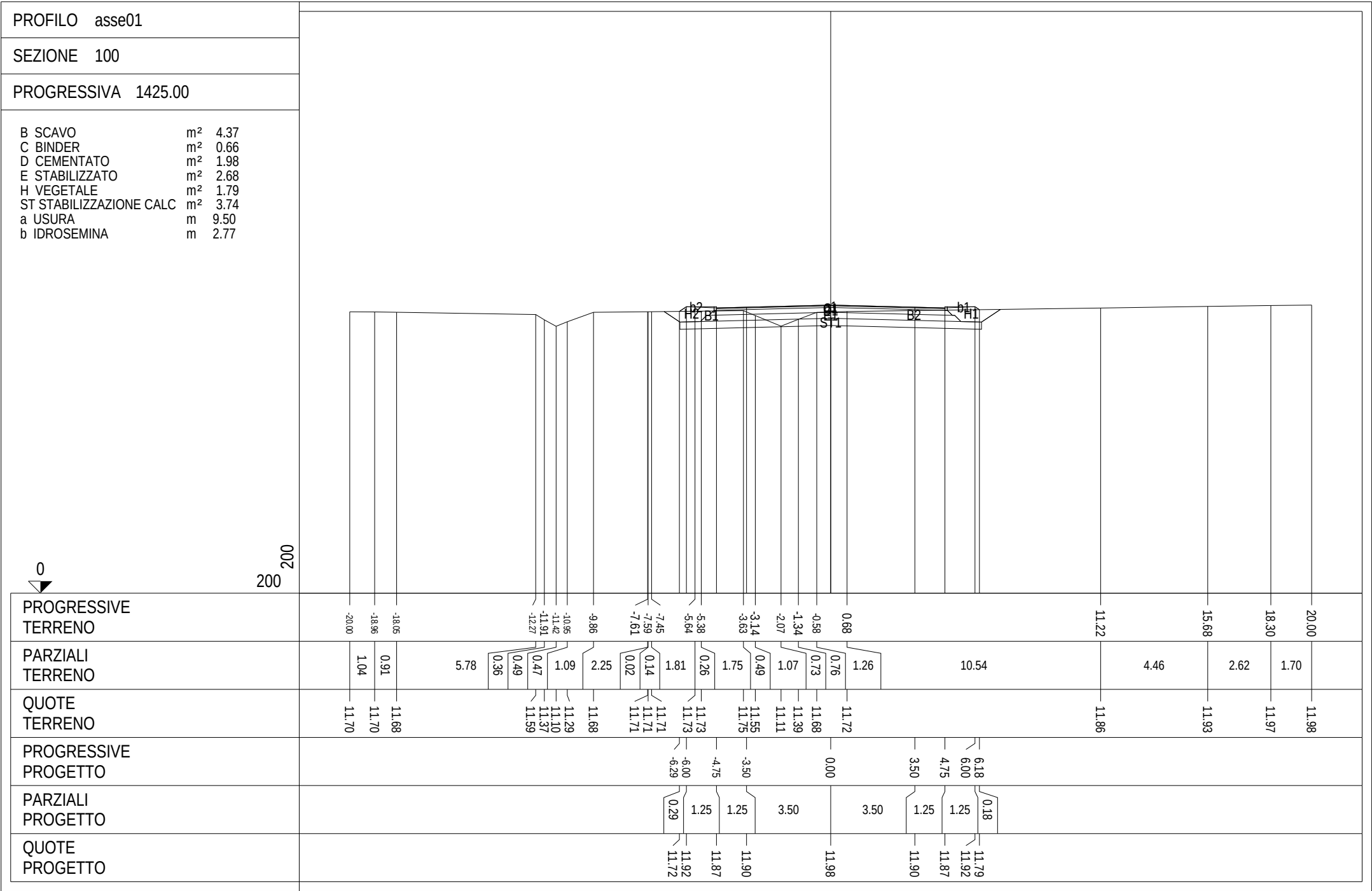




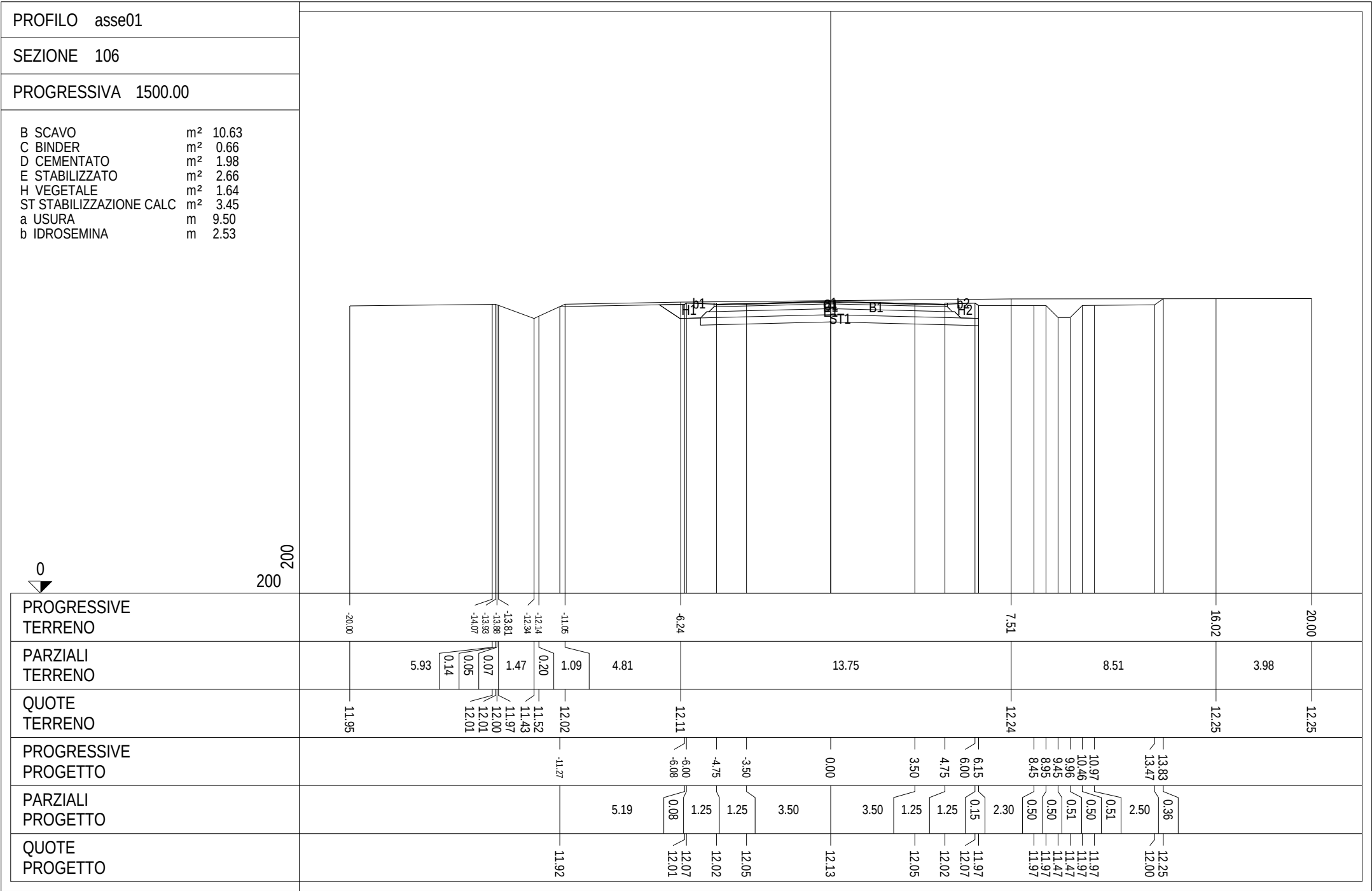


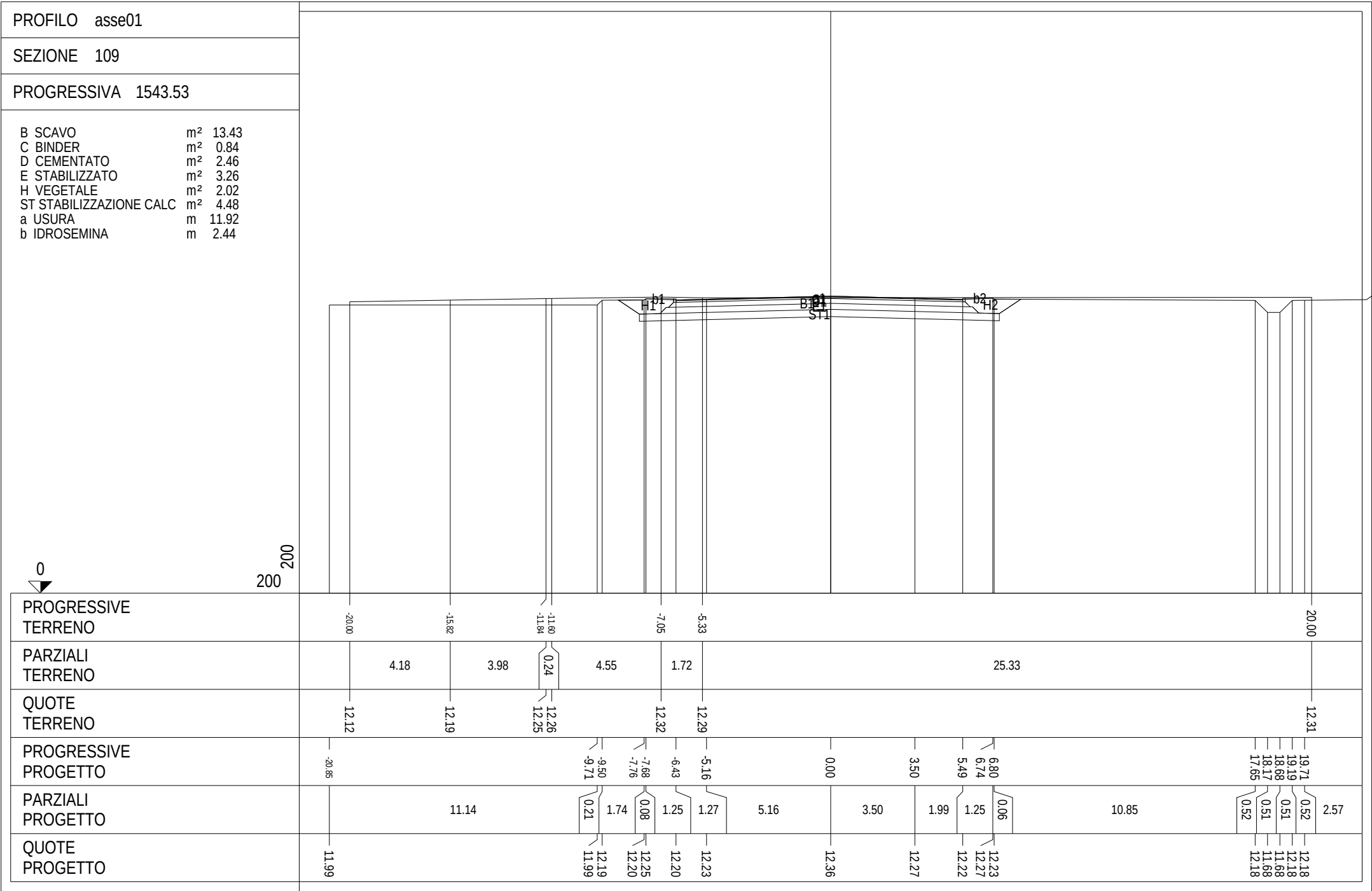






QUOTE
PROGETTO

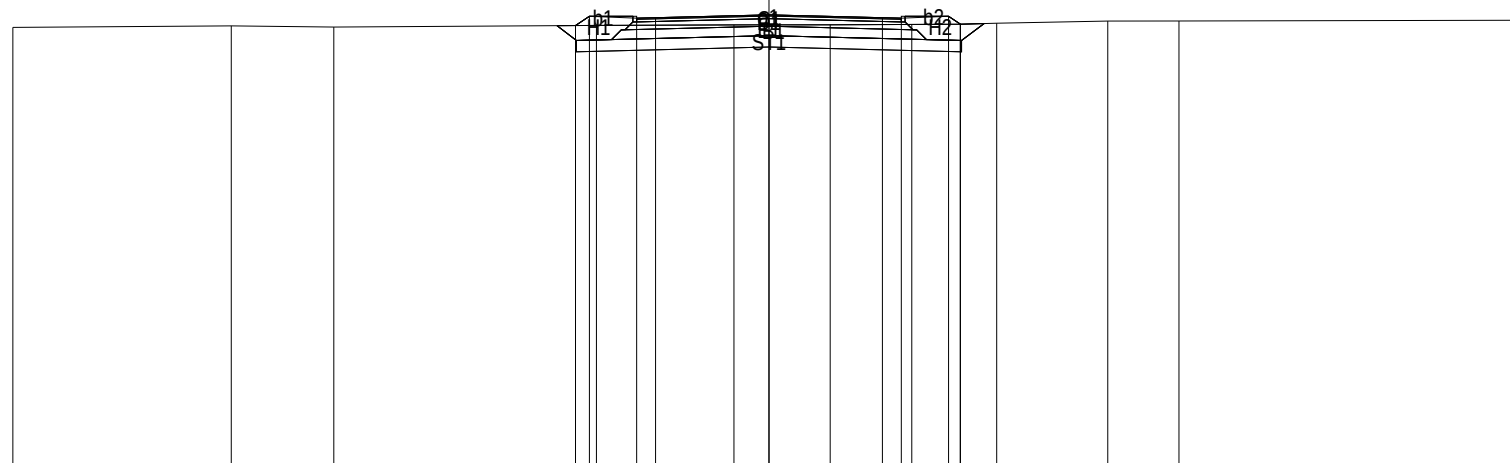




RAMO LATERALE

PROGRESSIVA 0.00

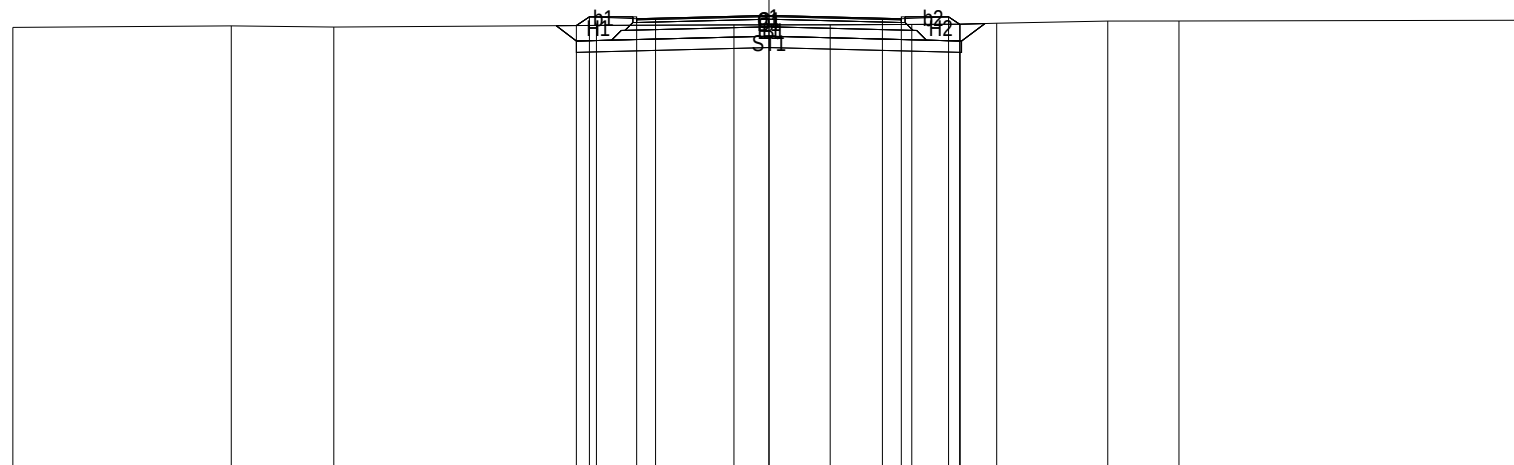
B SCAVO	m ²	3.81
C BINDER	m ²	0.50
D CEMENTATO	m ²	1.48
E STABILIZZATO	m ²	2.02
H VEGETALE	m ²	1.75
ST STABILIZZAZIONE CALC	m ²	3.04
a USURA	m	7.00
b IDROSEMINA	m	2.98



PROGRESSIVE TERRENO	20.00	10.84	8.96	6.02	5.06	3.78	1.62	-0.93	4.56	-11.51	-14.22	-20.00
PARZIALI TERRENO	9.16	1.88	2.94	0.96	1.28	2.16	2.55	3.63	6.95	2.71	5.78	
QUOTE TERRENO	11.92	11.90	11.89	11.84	11.81	11.81	11.80	11.79	11.78	11.74	11.77	11.73
PROGRESSIVE PROGETTO				5.06	4.75	3.50	3.00	0.00	-3.00	-3.50	-4.75	-5.12
PARZIALI PROGETTO				0.31	1.25	0.50	3.00	3.00	0.50	1.25	0.37	
QUOTE PROGETTO				11.81	12.02	11.97	11.98	12.06	11.98	11.97	12.02	11.78

PROGRESSIVA	15.00
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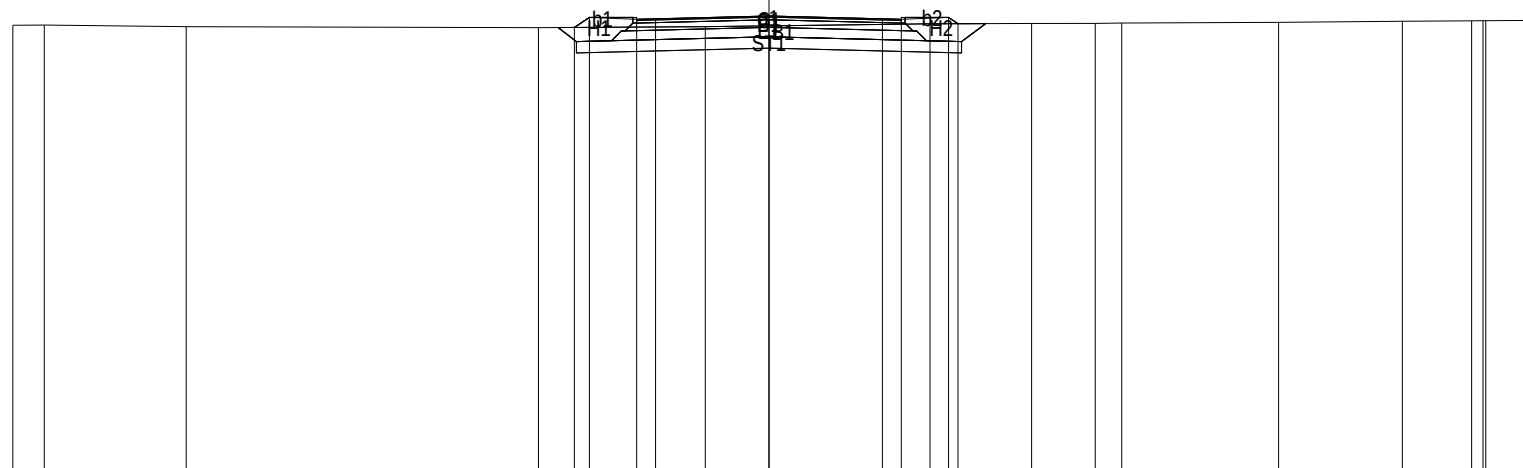
B SCAVO	m ²	3.98
C BINDER	m ²	0.48
D CEMENTATO	m ²	1.50
E STABILIZZATO	m ²	2.04
H VEGETALE	m ²	1.75
ST STABILIZZAZIONE CALC	m ²	3.04
a USURA	m	7.00
b IDROSEMINA	m	2.93



PROGRESSIVE TERRENO	20.00	10.84	8.96	6.02	5.06	3.78	1.62	-0.93	-4.56	-11.51	-14.22	-20.00
PARZIALI TERRENO		9.16	1.88	2.94	0.96	1.28	2.16	2.55	3.63	6.95	2.71	5.78
QUOTE TERRENO	11.92	11.90	11.89	11.84	11.81	11.81	11.80	11.79	11.78	11.74	11.77	11.73
PROGRESSIVE PROGETTO				5.04	4.75	3.50	3.00	0.00	-3.00	-3.50	-4.75	-5.09
PARZIALI PROGETTO				0.29	1.25	0.50	3.00	3.00	0.50	1.25	0.34	
QUOTE PROGETTO				11.81	12.01	11.96	11.97	12.04	11.97	11.96	12.01	11.78

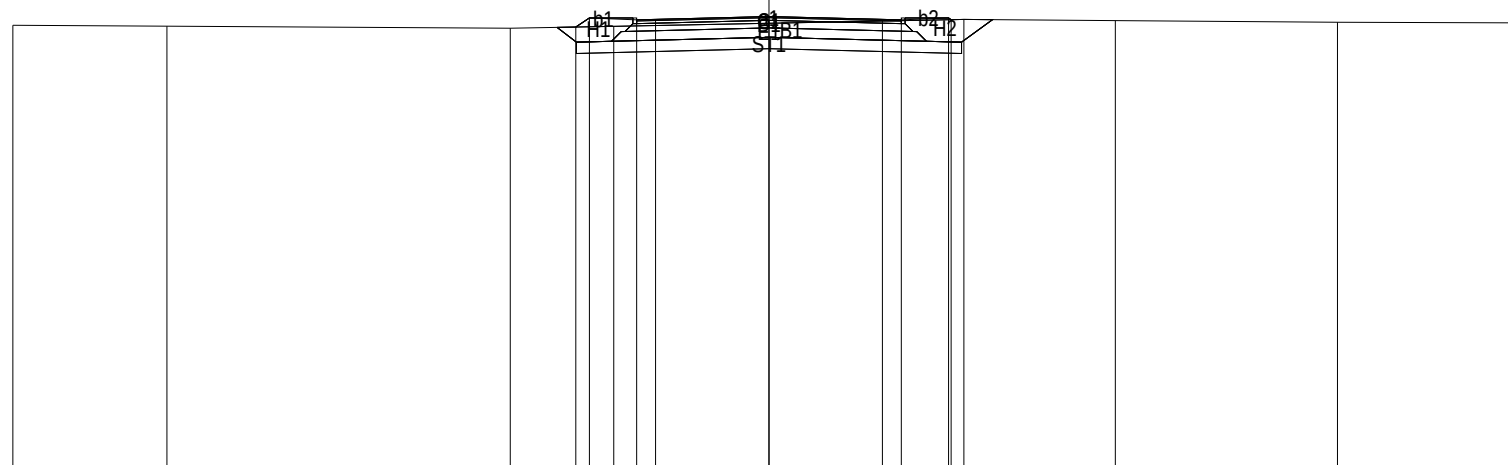
PROGRESSIVA	30.00
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B SCAVO	m ²	3.90
C BINDER	m ²	0.48
D CEMENTATO	m ²	1.46
E STABILIZZATO	m ²	2.04
H VEGETALE	m ²	1.78
ST STABILIZZAZIONE CALC	m ²	3.04
a USURA	m	7.00
b DROSEMINA	m	2.95

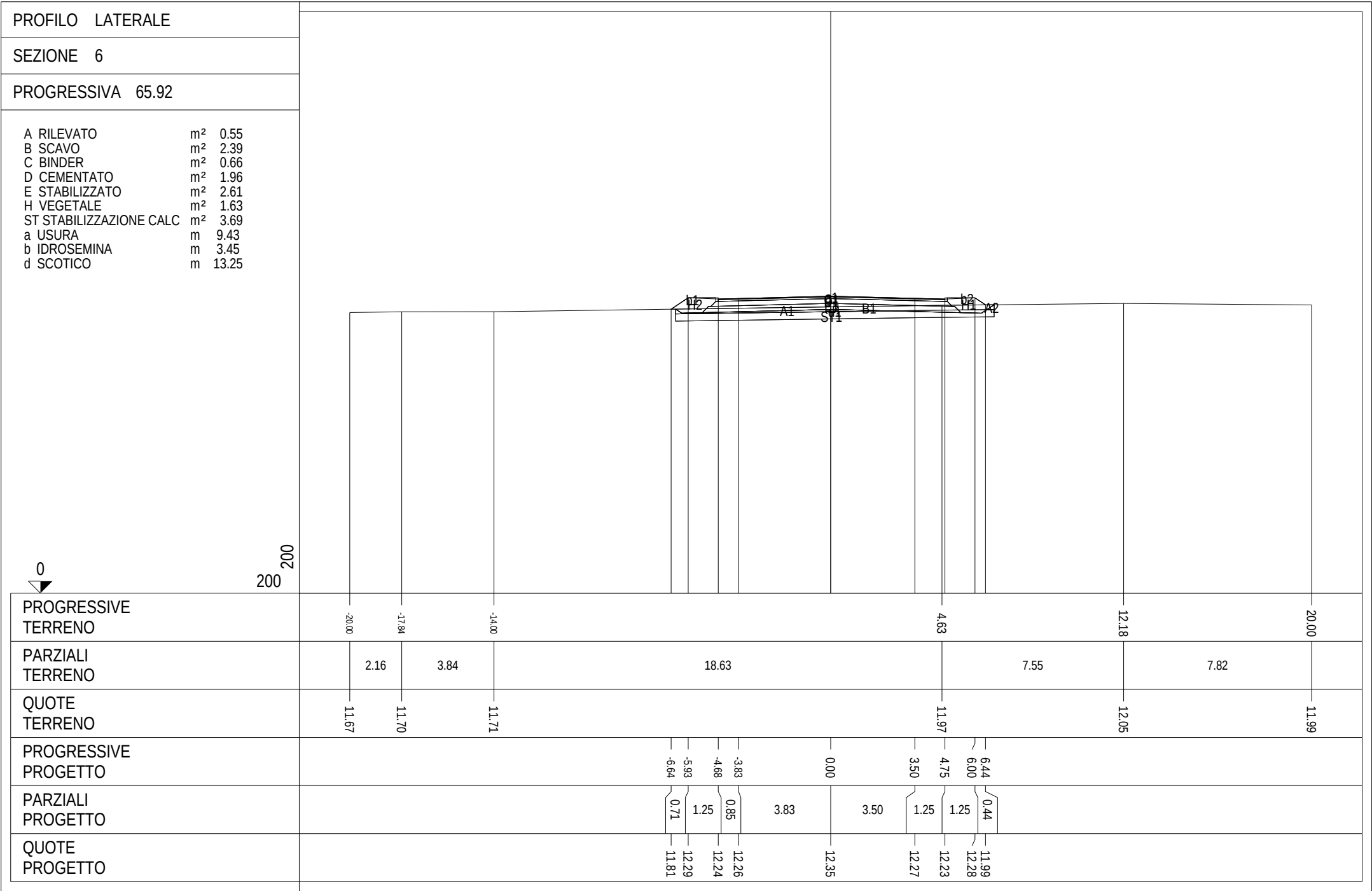
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PROGRESSIVA	45.00
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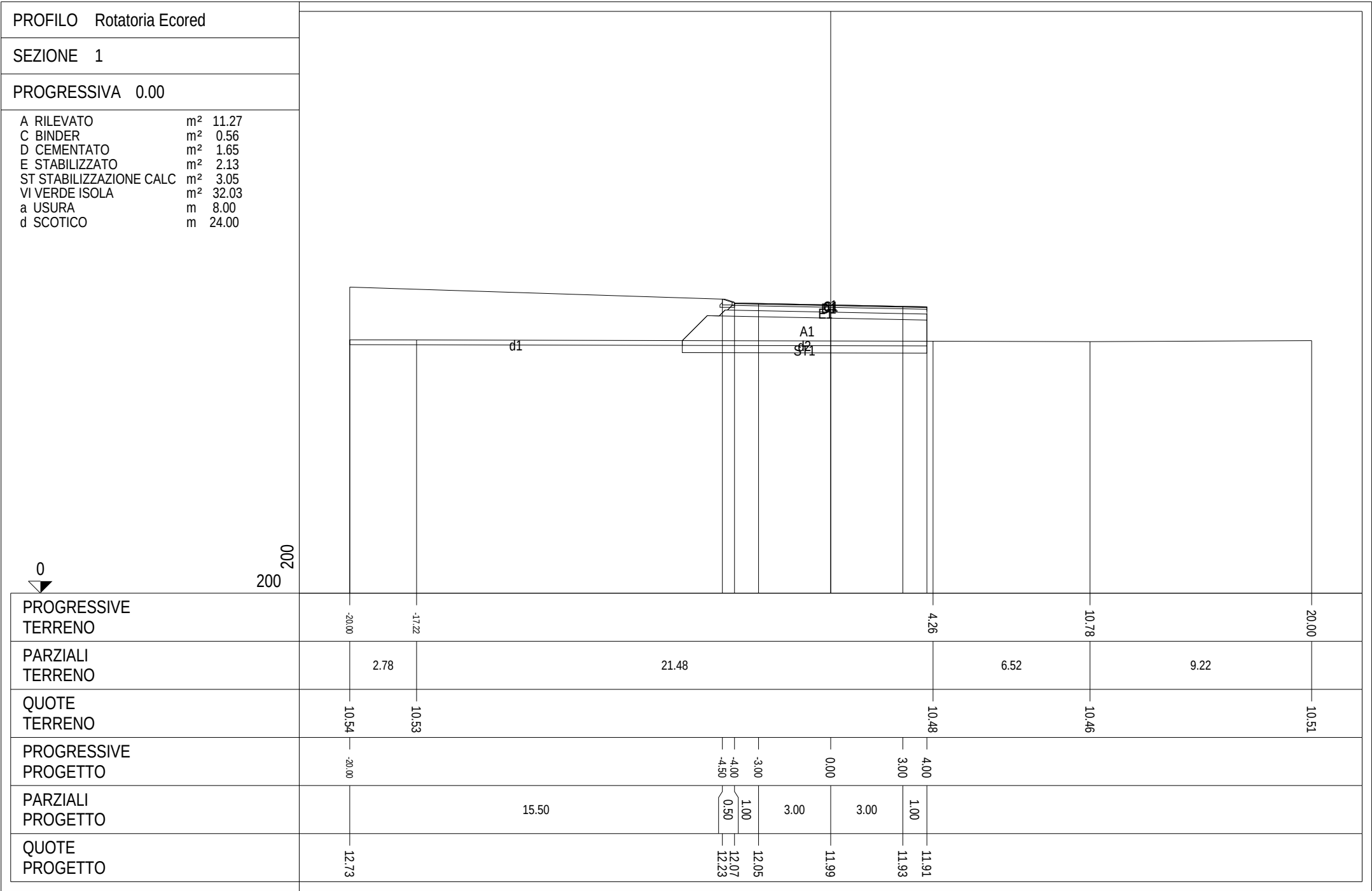
B SCAVO	m ²	4.82
C BINDER	m ²	0.48
D CEMENTATO	m ²	1.48
E STABILIZZATO	m ²	2.02
H VEGETALE	m ²	1.91
ST STABILIZZAZIONE CALC	m ²	3.06
a USURA	m	7.00
b IDROSEMINA	m	2.73



PROGRESSIVE TERRENO	20.00	15.04	9.16	5.16	4.11	-6.84	-15.92	-20.00
PARZIALI TERRENO	4.96	5.88	4.00	9.27	2.73	9.08	4.08	
QUOTE TERRENO	11.85	11.86	11.91	11.94	11.76	11.71	11.76	11.78
PROGRESSIVE PROGETTO				4.82 4.75 3.50 3.00	0.00	-3.00 -3.50 -4.75 -5.11		
PARZIALI PROGETTO	0.07	1.25	0.50	3.00	3.00	0.50 1.25 0.36		
QUOTE PROGETTO	11.93 11.98 11.93 11.94				12.01	11.94 11.93 11.98 11.74		



ROTORIA IMPIANTO

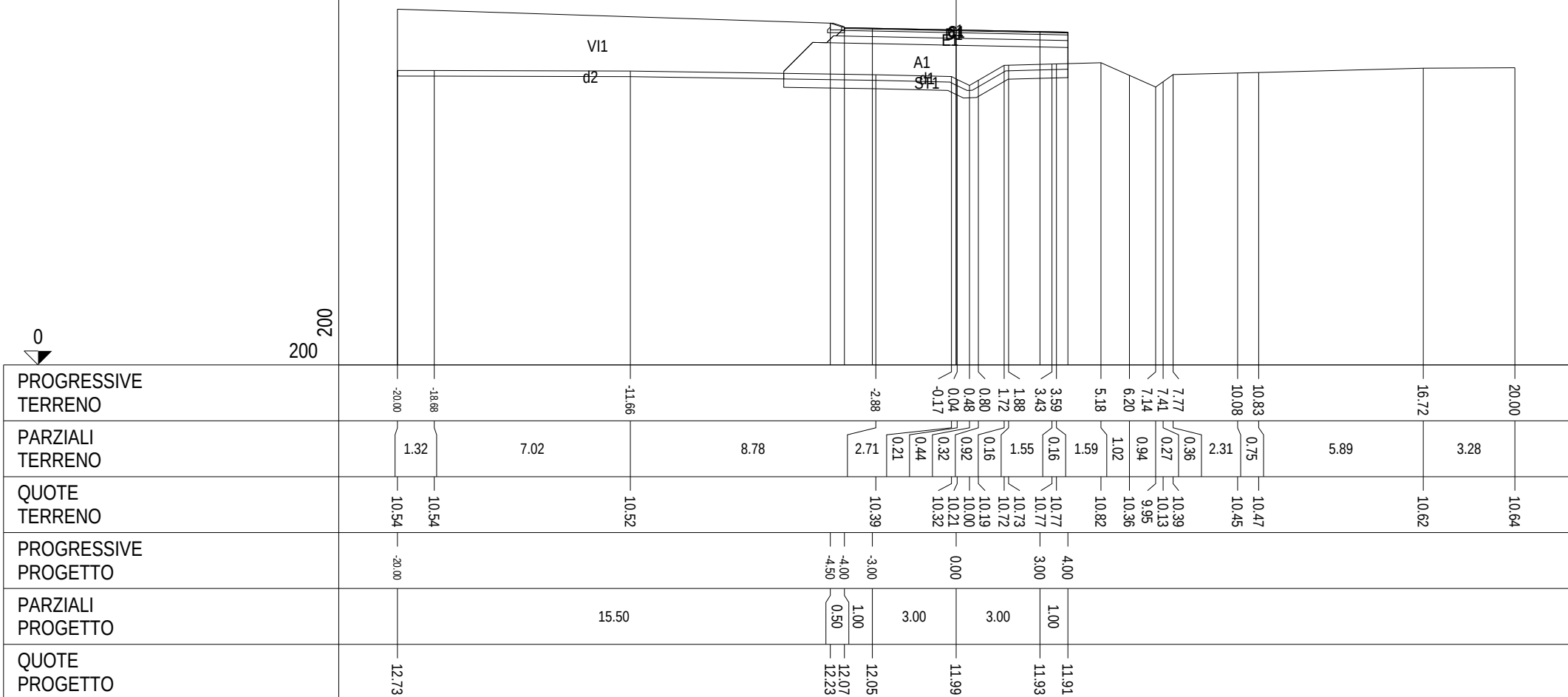


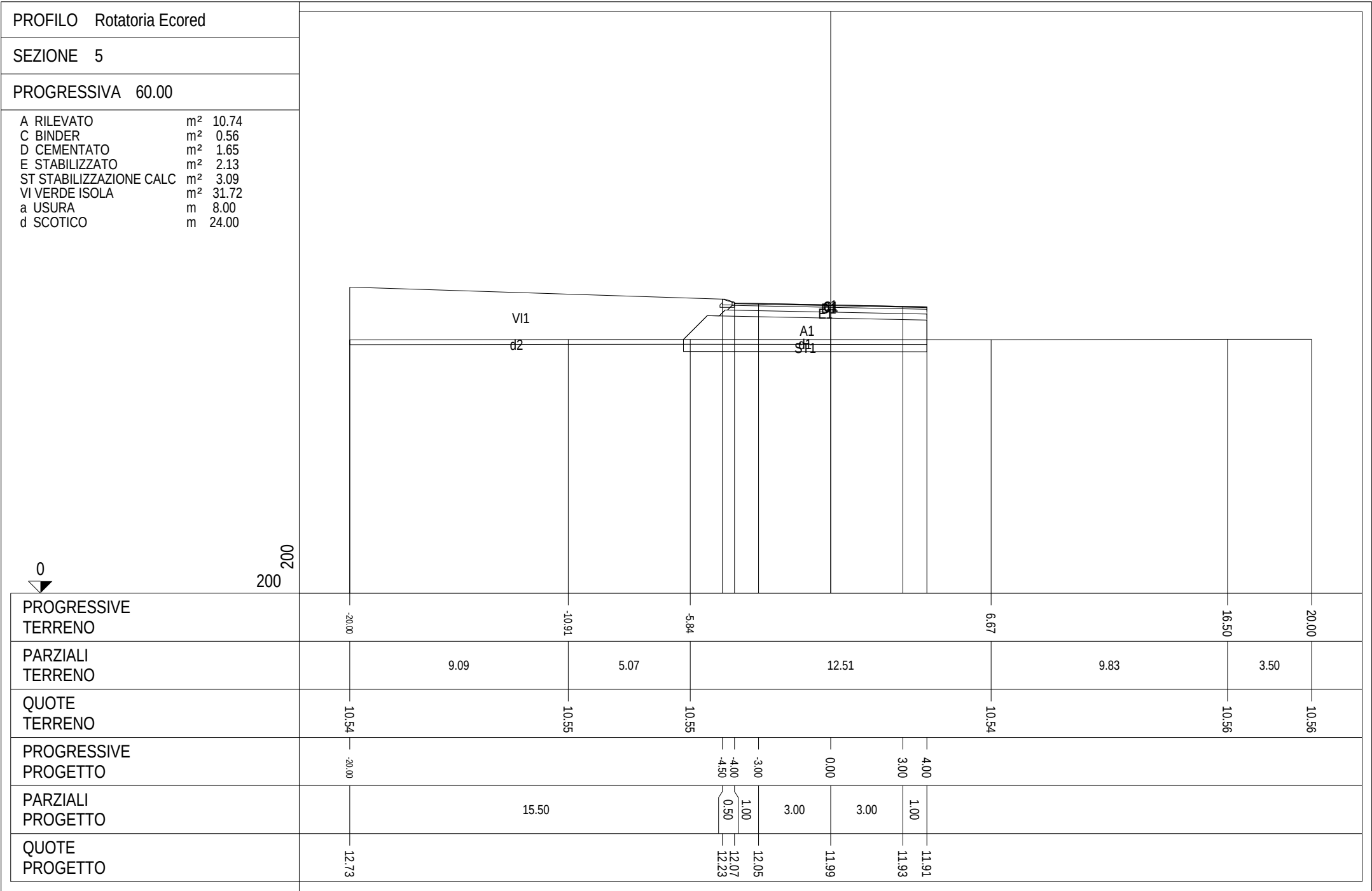
PROFILO Rotatoria Ecored

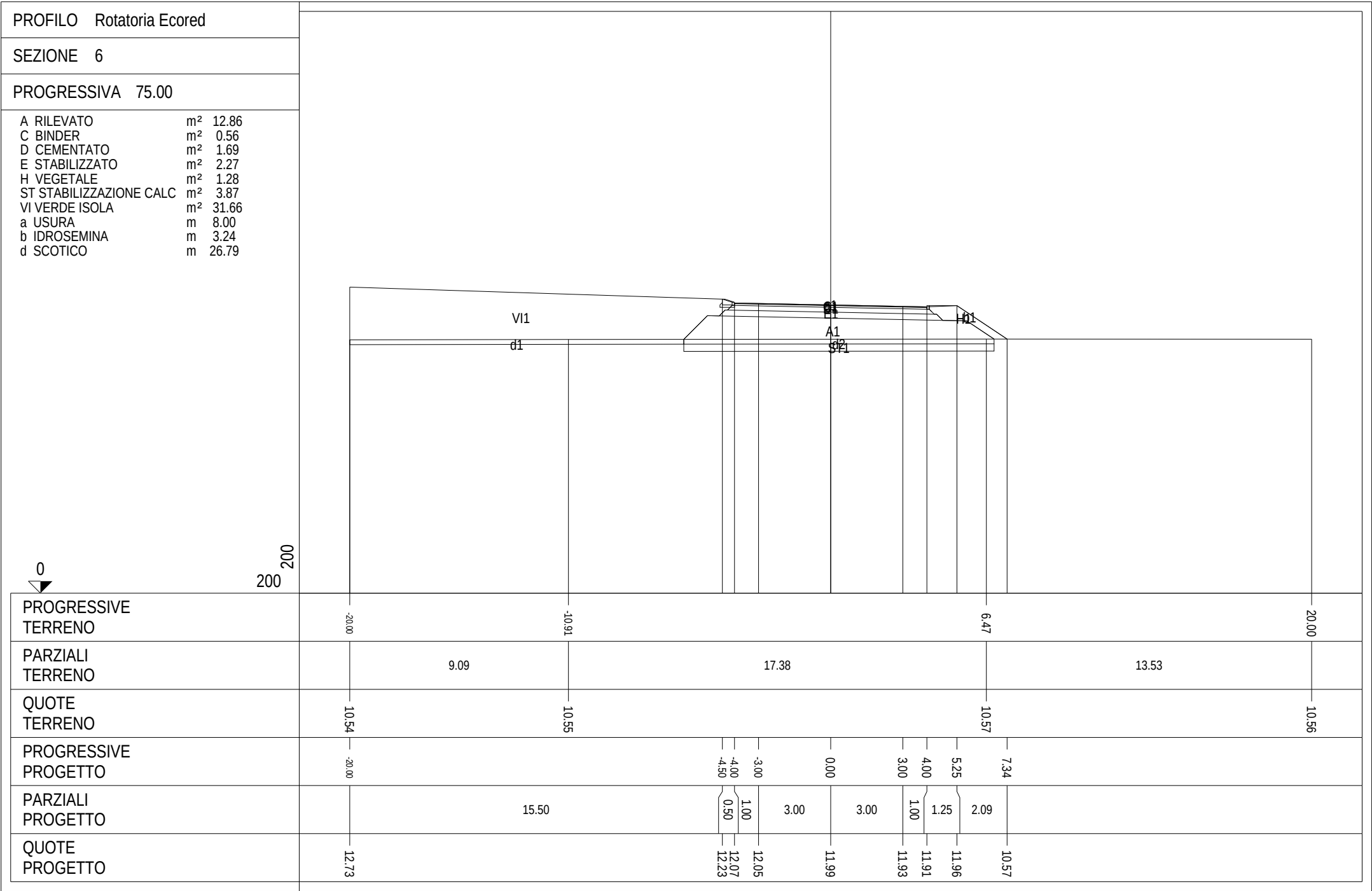
SEZIONE 3

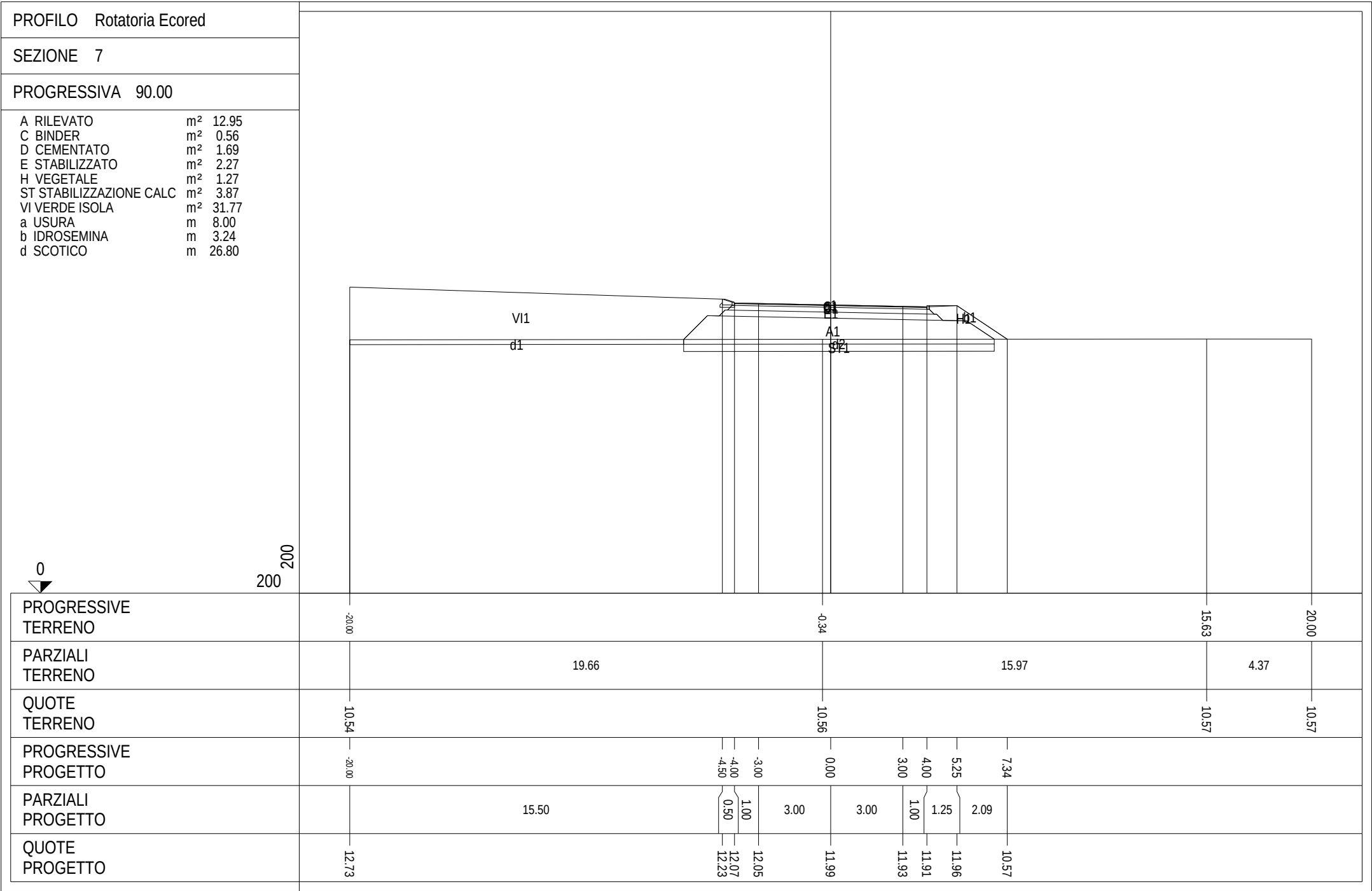
PROGRESSIVA 30.00

A RILEVATO	m ²	11.82
C BINDER	m ²	0.56
D CEMENTATO	m ²	1.65
E STABILIZZATO	m ²	2.13
ST STABILIZZAZIONE CALC	m ²	3.12
VI VERDE ISOLA	m ²	32.24
a USURA	m	8.00
d SCOTICO	m	24.00





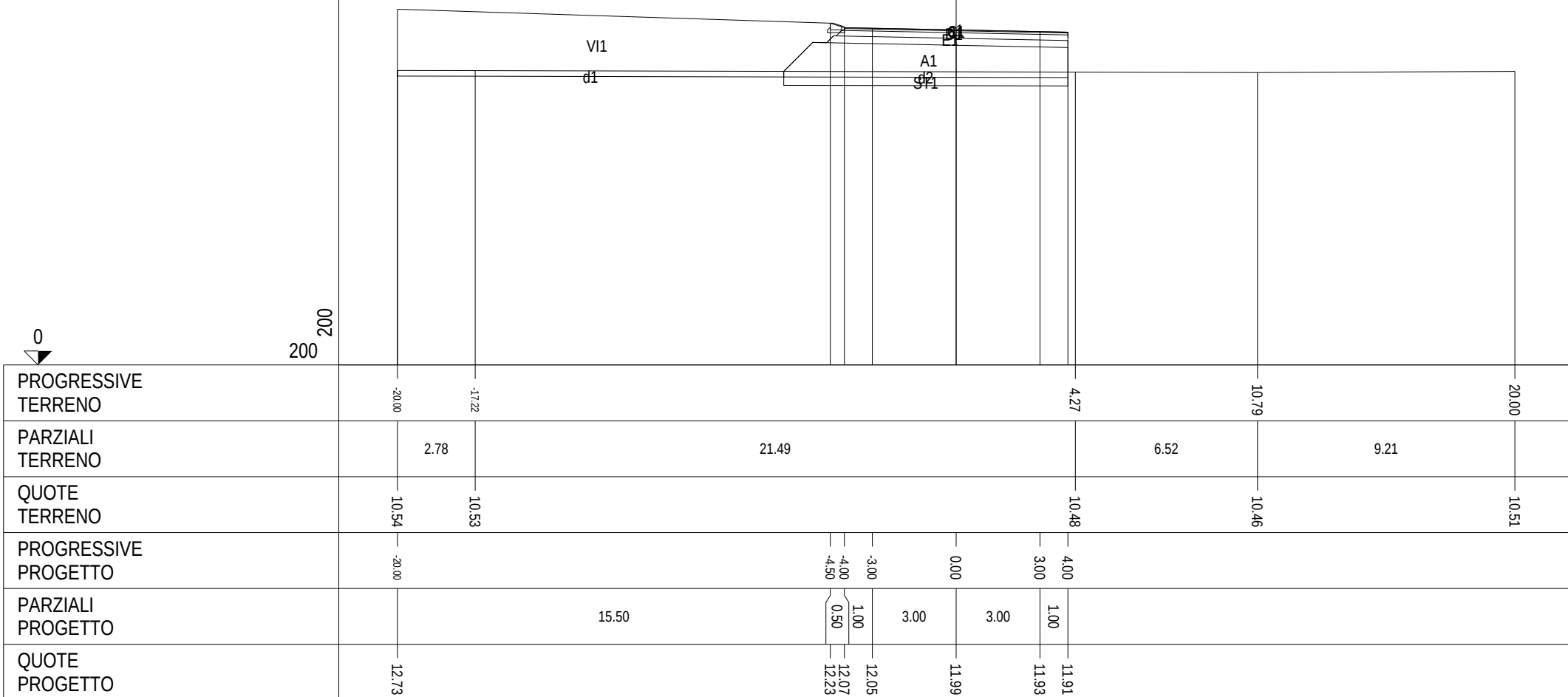




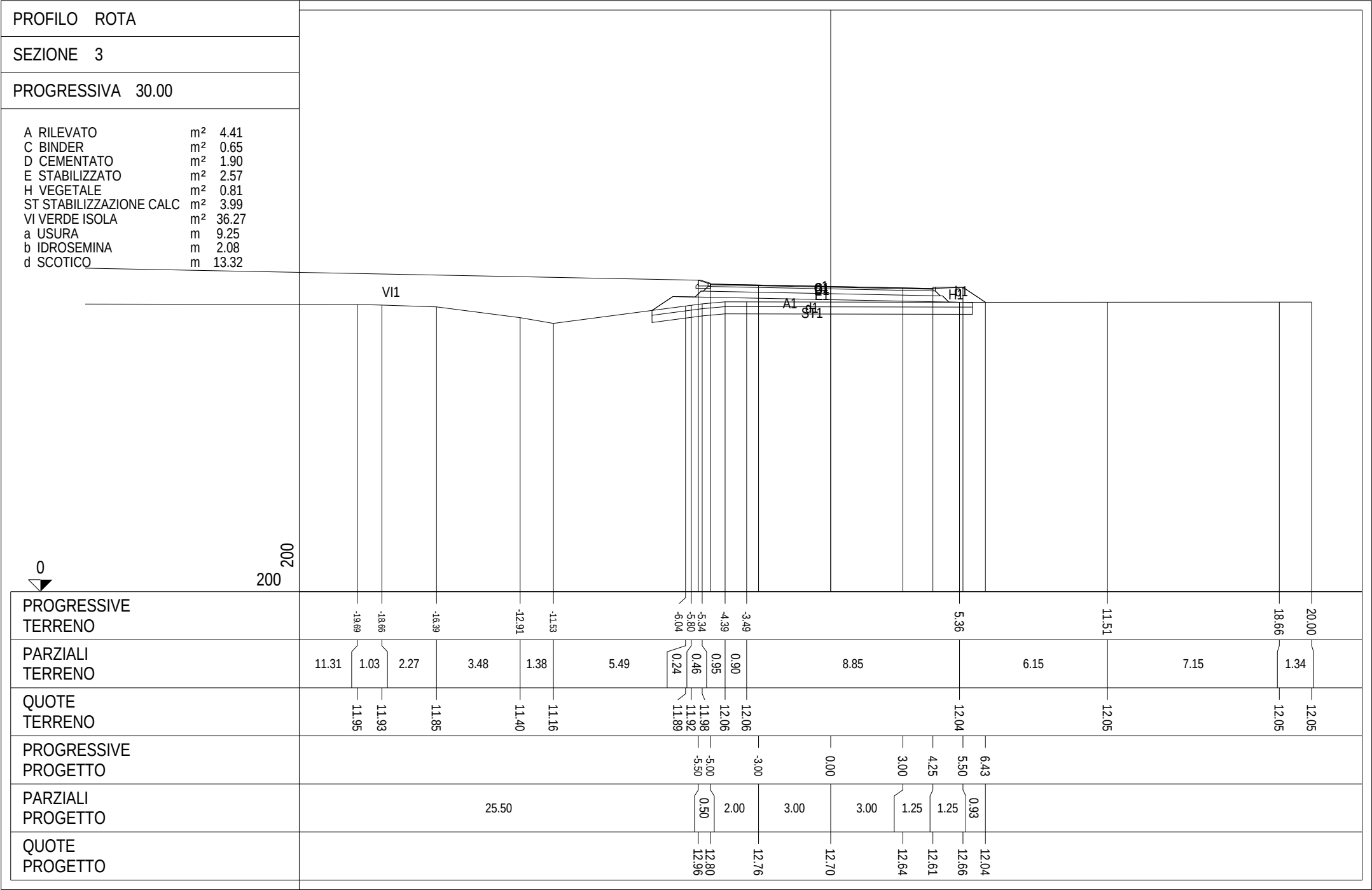
PROFILO Rotatoria EcoredSEZIONE 10

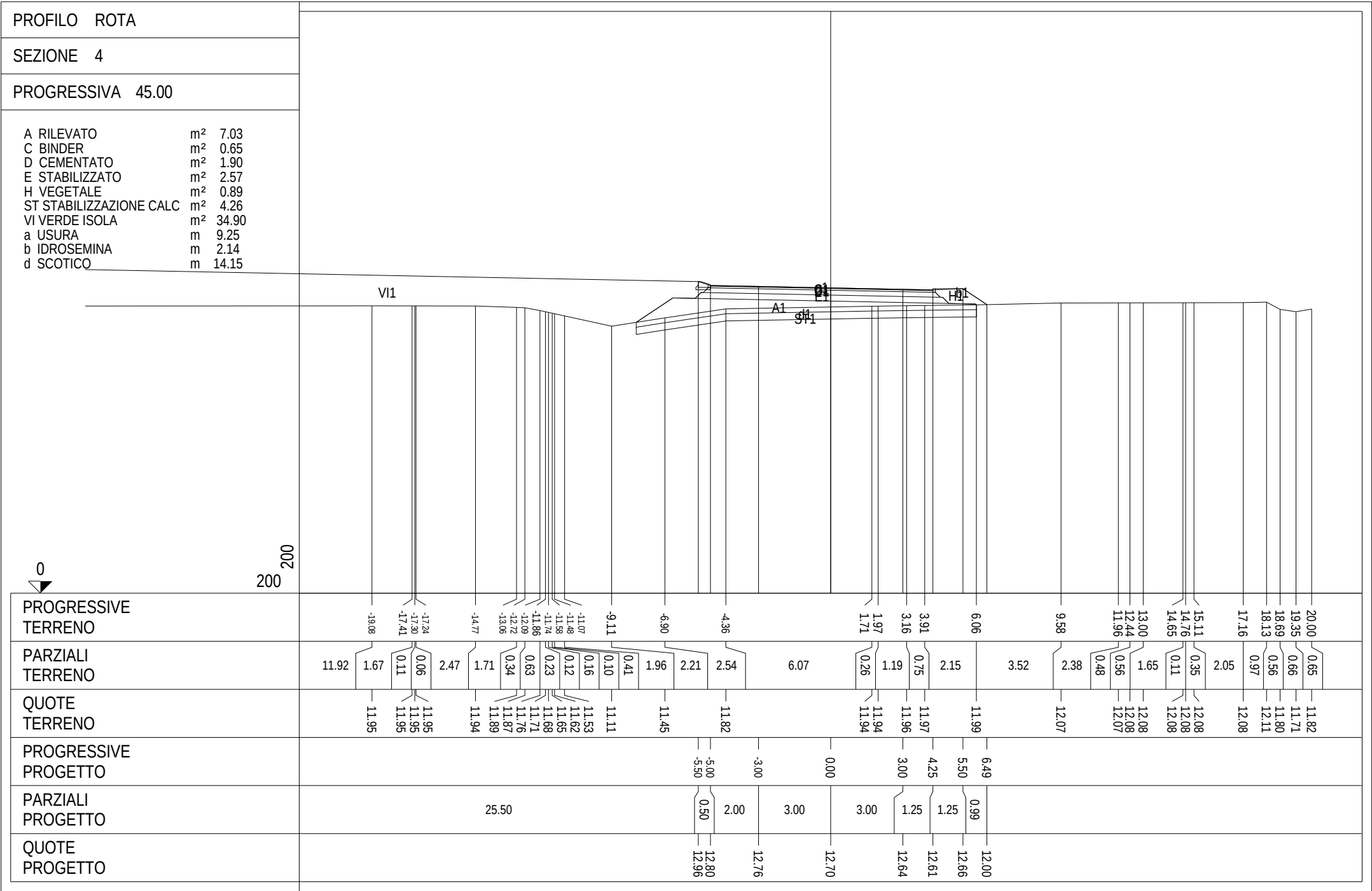
PROGRESSIVA 125.65

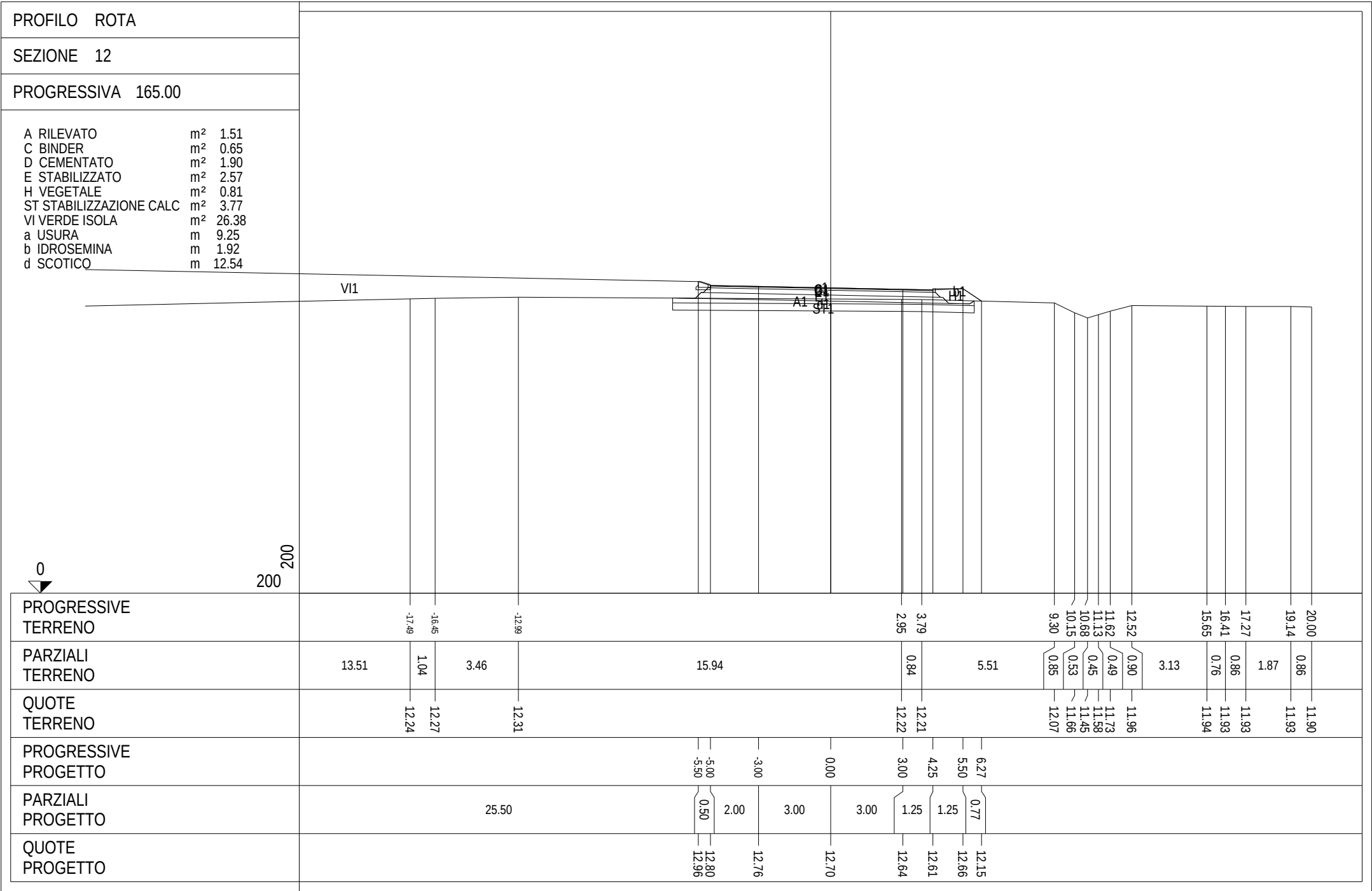
A RILEVATO	m ²	11.27
C BINDER	m ²	0.56
D CEMENTATO	m ²	1.65
E STABILIZZATO	m ²	2.13
ST STABILIZZAZIONE CALC	m ²	3.05
VI VERDE ISOLA	m ²	32.03
a USURA	m	8.00
d SCOTICO	m	24.00



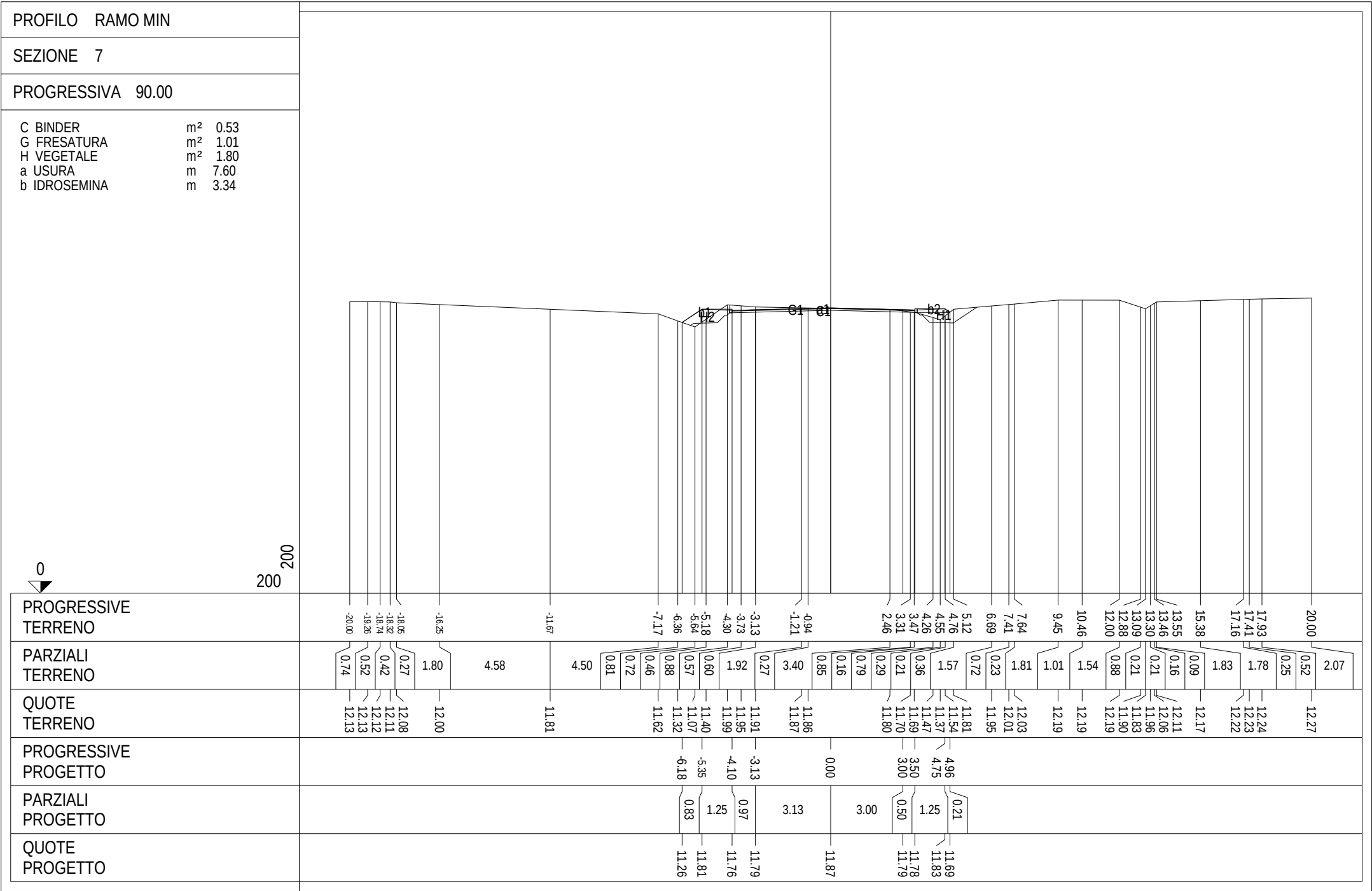
ROTORIA SP5







RAMO MINERBIO



RAMO BARICELLA

