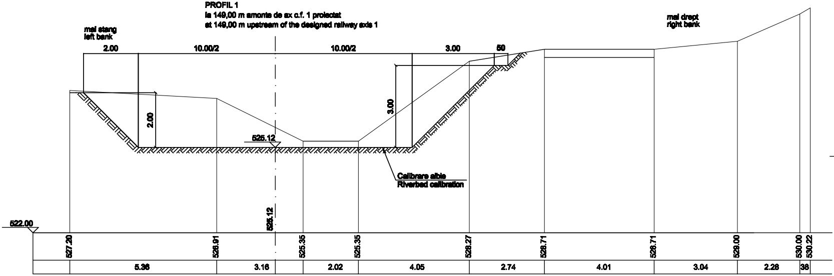
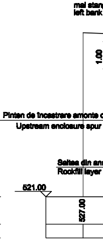
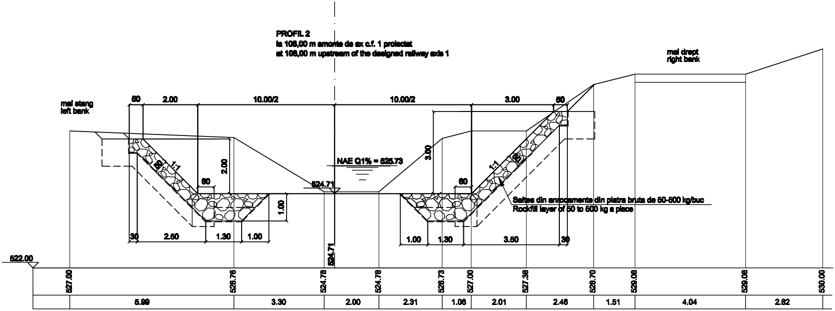
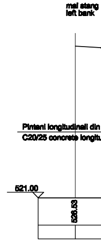
PROFIL 1
la 149,00 m amonte de ax c.f. 1 proiectat
at 149,00 m upstream of the designed railway axis 1


mal stang
left bank
2.00
10.00/2
10.00/2
3.00
50
mal drept
right bank
2.00
3.00
525.12
Calibrare albie
Riverbed calibration
522.00
527.20
526.91
525.12
525.35
525.35
528.27
528.71
528.71
529.00
530.00
530.22
5.36
3.16
2.02
4.05
2.74
4.01
3.04
2.28
38

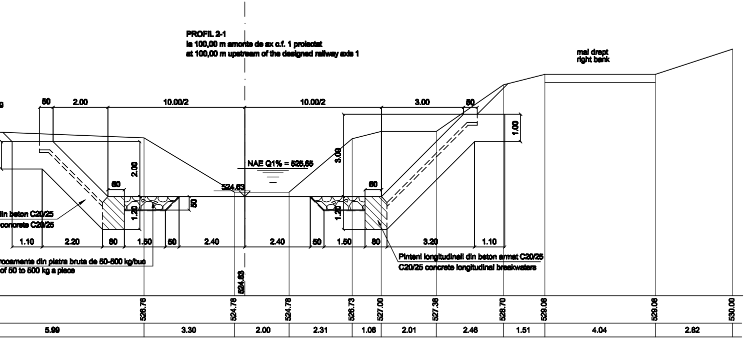

mal stang
left bank
1.00
Pinten de încastrare amonte c
Upstream enclosure spur
Saltea din anr
Rockfill layer
521.00
527.00

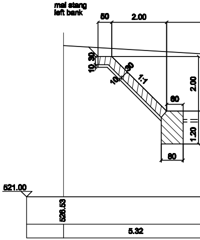
PROFIL 2
la 108,00 m amonte de ax c.f. 1 proiectat
at 108,00 m upstream of the designed railway axis 1


mal stang
left bank
50
2.00
10.00/2
10.00/2
3.00
50
mal drept
right bank
NAE Q1% = 525.73
524.71
2.00
3.00
50
1:1
60
60
1:1
50
1.00
30
2.50
1.30
1.00
1.00
1.30
3.50
30
Saltea din anrocamente din piatra bruta de 50-500 kg/buc
Rockfill layer of 50 to 500 kg a piece
522.00
527.00
526.76
524.78
524.71
524.78
526.73
527.00
527.38
528.70
529.08
529.08
530.00
5.99
3.30
2.00
2.31
1.06
2.01
2.46
1.51
4.04
2.82

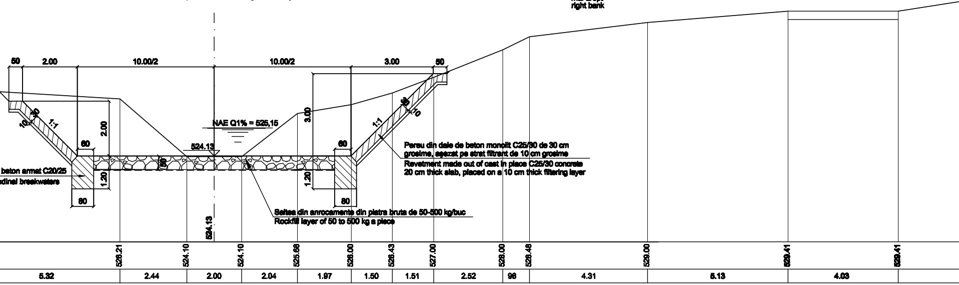

mal stang
left bank
Pinteni longitudinali din
C20/25 concrete longitu
521.00
526.53

PROFIL 2-1
la 100,00 m amonte de ax c.f. 1 proiectat
at 100,00 m upstream of the designed railway axis 1

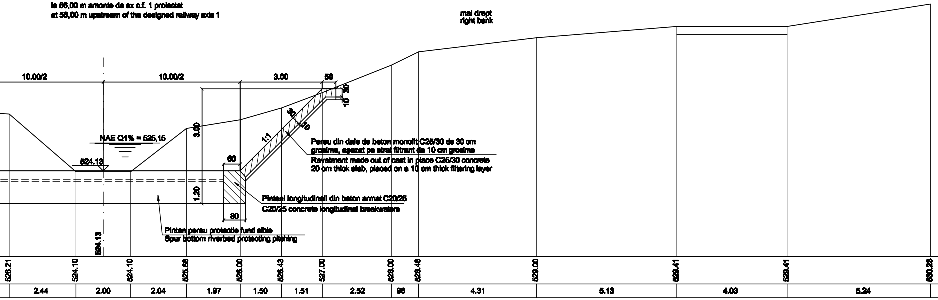

mal drept
right bank
50
2.00
10.00/2
10.00/2
3.00
50
1.00
3.00
2.00
NAE Q1% = 525,65
524.63
60
60
50
1.20
1.20
din beton C20/25
concrete C20/25
1.10
2.20
80
1.50
50
2.40
2.40
50
1.50
80
3.20
1.10
rocamente din piatra bruta de 50-500 kg/buc
of 50 to 500 kg a piece
Pinteni longitudinali din beton armat C20/25
C20/25 concrete longitudinal breakwaters
524.63
526.76
524.78
524.78
526.73
527.00
527.38
528.70
529.08
529.08
530.00
5.99
3.30
2.00
2.31
1.06
2.01
2.46
1.51
4.04
2.82

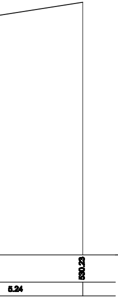

mal stang
left bank
50
2.00
10
30
10
30
1:1
2.00
60
1.20
80
521.00
526.53
5.32

PROFIL 3
la 51,00 m amonte de ax c.f. 1 proiectat
at 51,00 m upstream of the designed railway axis 1

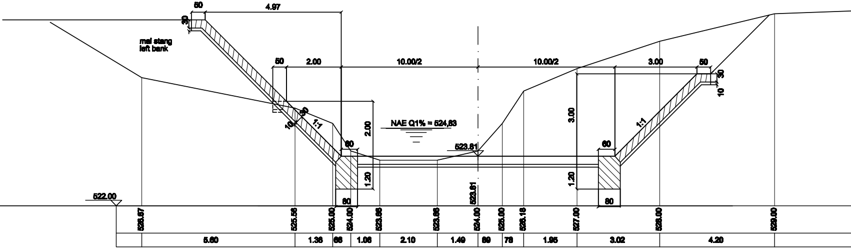

mal drept
right bank
50
2.00
10.00/2
10.00/2
3.00
50
10
30
1:1
2.00
60
NAE Q1% = 525,15
3.00
1:1
30
10
60
524.13
50
beton armat C20/25
dinal breakwaters
1.20
1.20
80
80
Pereu din dale de beton monolit C25/30 de 30 cm grosime, așezat pe strat filtrant de 10 cm grosime
Revetment made out of cast in place C25/30 concrete 20 cm thick slab, placed on a 10 cm thick filtering layer
Saltea din anrocamente din piatra bruta de 50-500 kg/buc
Rockfill layer of 50 to 500 kg a piece
524.13
526.21
524.10
524.10
525.66
526.00
526.43
527.00
528.00
528.48
529.00
529.41
529.41
5.32
2.44
2.00
2.04
1.97
1.50
1.51
2.52
98
4.31
5.13
4.03

PROFIL 3-1
la 56,00 m amonte de ax c.f. 1 proiectat
at 56,00 m upstream of the designed railway axis 1

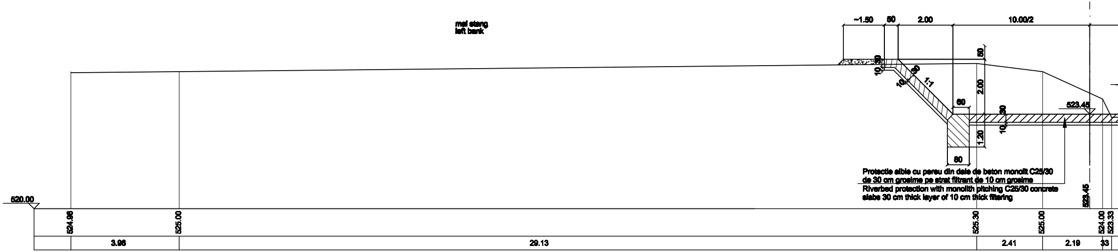

mal drept
right bank
10.00/2
10.00/2
3.00
50
30
10
30
10
1:1
3.00
1.20
60
80
NAE Q1% = 525,15
524.13
524.13
Pereu din dale de beton monolit C25/30 de 30 cm grosime, asezat pe strat filtrant de 10 cm grosime
Revetment made out of cast in place C25/30 concrete 20 cm thick slab, placed on a 10 cm thick filtering layer
Pintenl longitudinali din beton armat C20/25
C20/25 concrete longitudinal breakwaters
Pinten pereu protectie fund albie
Spur bottom riverbed protecting pitching
526.21
524.10
524.10
525.68
526.00
526.43
527.00
528.00
528.48
529.00
529.41
529.41
530.23
2.44
2.00
2.04
1.97
1.50
1.51
2.52
98
4.31
5.13
4.03
5.24



PROFIL 4
la 18,20 m amonte de ax c.f. 1 proiectat
at 18,20 m upstream of the designed railway axis 1

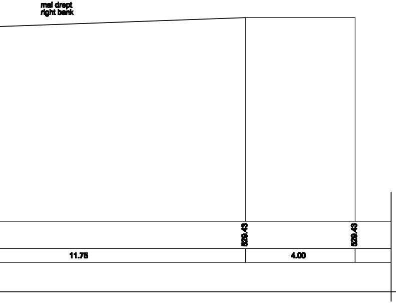

mal stang
left bank
50
30
4.97
50
2.00
10.00/2
10.00/2
3.00
50
30
10
30
10
1:1
1:1
2.00
3.00
1.20
1.20
60
60
80
80
NAE Q1% = 524,83
523.81
523.81
522.00
526.67
525.56
525.00
524.00
523.86
523.86
524.00
525.00
526.18
527.00
528.00
529.00
5.60
1.36
66
1.06
2.10
1.49
89
78
1.95
3.02
4.20

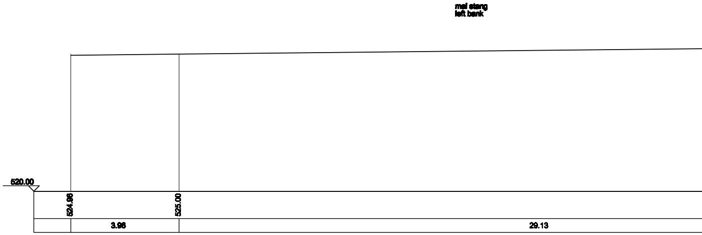
PROFIL 5
la 18,00 m aval de ax c.f. 1 pr
at 18,00 m downstream of the

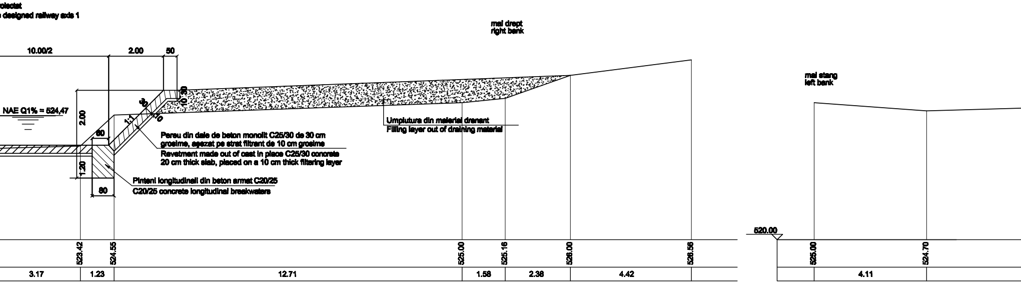

mal stang
left bank
~1.50
50
2.00
10.00/2
50
10
30
10
30
1:1
2.00
60
30
10
1.20
80
523.45
520.00
524.96
525.00
525.30
525.00
523.45
524.00
523.33
3.96
29.13
2.41
2.19
33

Protectie albie cu pereu din dale de beton monolit C25/30 de 30 cm grosime pe strat filtrant de 10 cm grosime

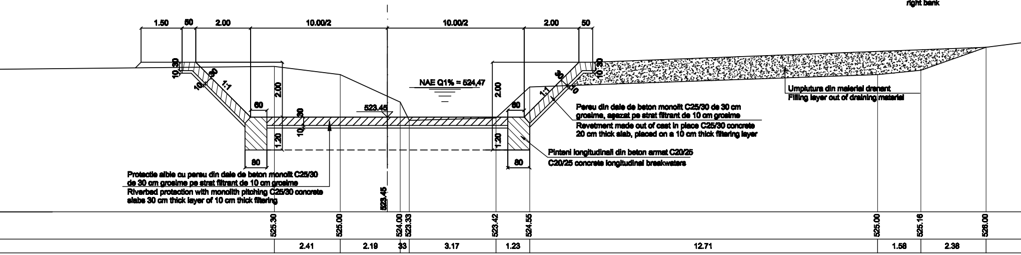
Riverbed protection with monolith pitching C25/30 concrete slabs 30 cm thick layer of 10 cm thick filtering


mal drept
right bank
529.43
529.43
11.75
4.00

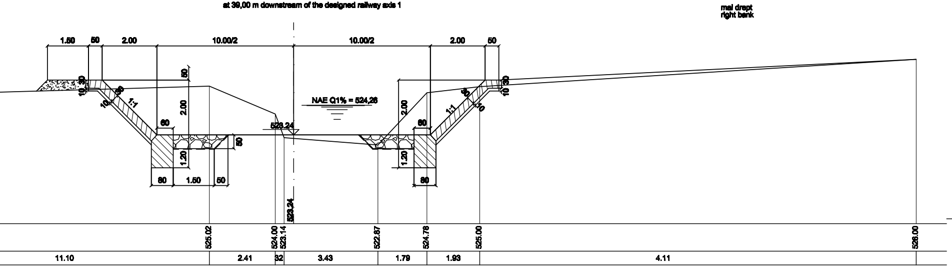

mal stang
left bank
520.00
524.96
525.00
3.96
29.13


oiectat
designed railway axis 1
10.00/2
2.00
50
mal drept
right bank
NAE Q1% = 524,47
2.00
60
1:1
30
10
10
30
1.20
80
Pereu din dale de beton monolit C25/30 de 30 cm grosime, așezat pe strat filtrant de 10 cm grosime
Revetment made out of cast in place C25/30 concrete 20 cm thick slab, placed on a 10 cm thick filtering layer
Pinteni longitudinali din beton armat C20/25
C20/25 concrete longitudinal breakwaters
Umplutura din material drenant
Filling layer out of draining material
mal stang
left bank
520.00
523.42
524.55
525.00
525.16
526.00
526.56
525.00
524.70
3.17
1.23
12.71
1.58
2.38
4.42
4.11

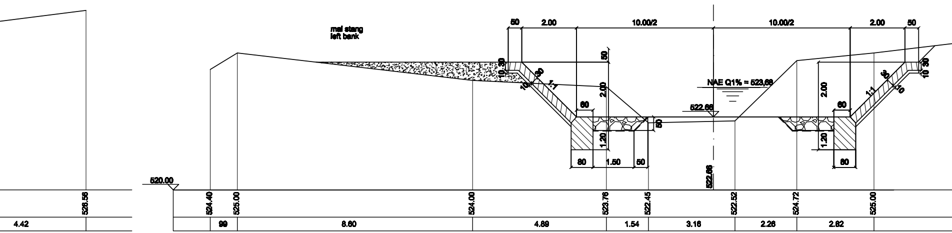
PROFIL 5-1
la 18,00 m aval de ax c.f. 1 proiectat
at 18,00 m downstream of the designed railway axis 1

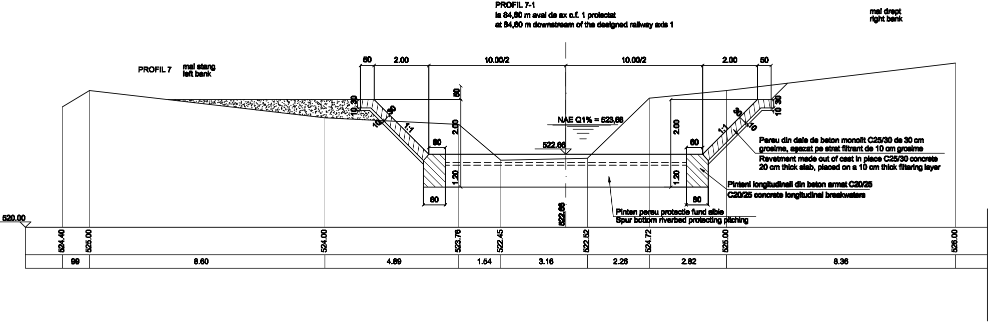

mal drept
right bank
1.50
50
2.00
10.00/2
10.00/2
2.00
50
10
30
30
10
1:1
2.00
60
30
10
1.20
80
523.45
NAE Q1% = 524,47
2.00
60
1:1
30
10
10
30
1.20
80
Umplutura din material drenant
Filling layer out of draining material
Pereu din dale de beton monolit C25/30 de 30 cm grosime, așezat pe strat filtrant de 10 cm grosime
Revetment made out of cast in place C25/30 concrete 20 cm thick slab, placed on a 10 cm thick filtering layer
Pinteni longitudinali din beton armat C20/25
C20/25 concrete longitudinal breakwaters
Protectie albie cu pereu din dale de beton monolit C25/30 de 30 cm grosime pe strat filtrant de 10 cm grosime
Riverbed protection with monolith pitching C25/30 concrete slabs 30 cm thick layer of 10 cm thick filtering
523.45
525.30
525.00
524.00
523.33
523.42
524.55
525.00
525.16
526.00
2.41
2.19
33
3.17
1.23
12.71
1.58
2.38

PROFIL 6
la 39,00 m aval de ax c.f. 1 proiectat
at 39,00 m downstream of the designed railway axis 1


mal drept
right bank
1.50
50
2.00
10.00/2
10.00/2
2.00
50
10
30
10
30
1:1
50
2.00
60
NAE Q1% = 524,28
523.24
2.00
60
1:1
30
10
10
30
50
1.20
1.20
80
1.50
50
80
523.24
525.02
524.00
523.14
522.87
524.78
525.00
526.00
11.10
2.41
32
3.43
1.79
1.93
4.11

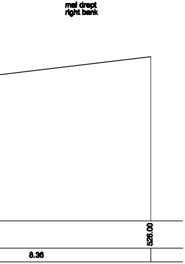
PROFIL 7
la 75,00 m aval de ax c.f. 1 proiectat
at 75,00 m downstream of the designed railway axis 1


mal stang
left bank
50
2.00
10.00/2
10.00/2
2.00
50
10
30
10
30
1:1
50
2.00
60
NAE Q1% = 523,68
522.66
2.00
60
1:1
30
10
10
30
50
1.20
1.20
80
1.50
50
80
520.00
522.66
526.56
524.40
525.00
524.00
523.76
522.45
522.52
524.72
525.00
4.42
99
8.60
4.89
1.54
3.16
2.26
2.82



PROFIL 7-1
la 84,60 m aval de ax c.f. 1 proiectat
at 84,60 m downstream of the designed railway axis 1

PROFIL 7
mal stang
left bank
mal drept
right bank
50
2.00
10.00/2
10.00/2
2.00
50
10 30
30
10
1:1
50
2.00
1.20
60
60
NAE Q1% = 523,68
522.66
522.66
2.00
1.20
60
60
1:1
30
10
10 30
Pereu din dale de beton monolit C25/30 de 30 cm grosime, aşezat pe strat filtrant de 10 cm grosime
Revetment made out of cast in place C25/30 concrete 20 cm thick slab, placed on a 10 cm thick filtering layer
Pinteni longitudinali din beton armat C20/25
C20/25 concrete longitudinal breakwaters
Pinten pereu protectie fund albie
Spur bottom riverbed protecting pitching
520.00
524.40
525.00
524.00
523.76
522.45
522.52
524.72
525.00
526.00
99
8.60
4.89
1.54
3.16
2.26
2.82
8.36



mal drept
right bank
526.00
8.36

D					
C					
B					
A	12.2011	Revizia 1	**Popescu Anca Raluca**		
Indice Index	Data Date	Modificare Modification/Revision	Proiectant Designer	Aprobat Consultant Approved Consultant	Aprobat CFR Approved CFR

GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANŢAT DE UNIUNEA EUROPEANĂ
EUROPEAN UNION FINANCED PROJECT

C.N.C.F. "C.F.R." - S.A.

CLIENT / CLIENT

ITALFERR
GRUPPO FERROVIE DELLO STATO
Joint Venture leader

Scott Wilson

OBERMEYER
PLANEN + BERATEN GmbH

TECNIC
Consulting Engineers

CONSULTANT / CONSULTANT			Data Date	Semnătură Signature
Aprobat Approved	Şef proiect Project manager	R. Liuzza		
Aprobat Approved	Coordonator Secţiune 1 Section 1 Coordinator	C. Gambelli		
Verificat Checked	Expert Cheie Checking Expert	V.Kallidromitis		VK

SUBCONTRACTANT / SUBCONTRACTOR

AREX COMPANY

Aprobat Approved	**Responsabil Subconsultant** **Subconsultant Responsible**	A. Dinulescu Stanciu		
Întocmit **Elaborated**	Proiectant Designer	Popescu Anca-Raluca	28.11.2011	

Reabilitarea liniei **de cale ferata** Braşov – Simeria, parte componentă a coridorului IV Pan European, pentru circulaţia trenurilor cu viteza maximă de 160 km/h,
Tronsonul : Braşov - Sighişoara
Rehabilitation of the railway line Braşov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h,
Section : Braşov - Sighişoara

Proiect/Project
2004/RO/16/P/PA/003

Faza / Phase:
P.Th. / T.D.

Denumire desen / Drawing Title :

INTERVAL CAŢA-ARCHITA / CAŢA-ARCHITA SECTION
PROTECTIE POD C.F. KM. 247+717,752
PROFILE TRANSVERSALE
247+717,752 KM RAILWAY BRIDGE PROTECTION
CROSS SECTIONS

Codificare / Codification System	Scara / Scale 1:100	**LOT / LOT**	Nr. / No 01 / 01

E	A	5	1	0	1	C	1	4	W	9	A	P	0	1	7	3	0	0	2	1