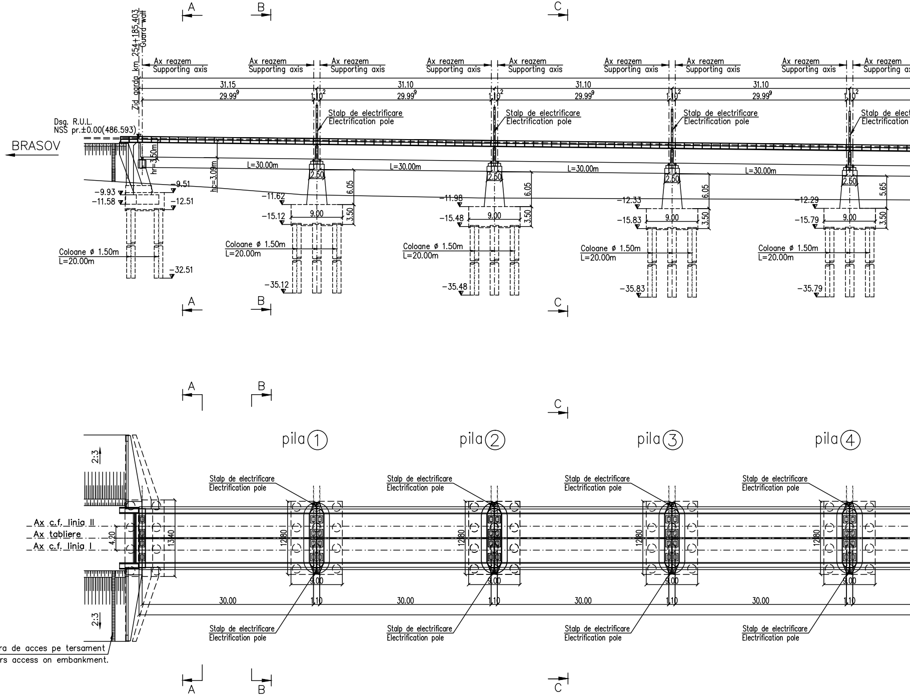
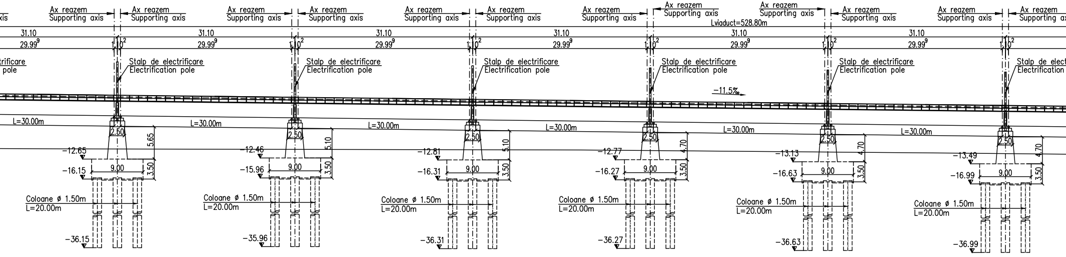
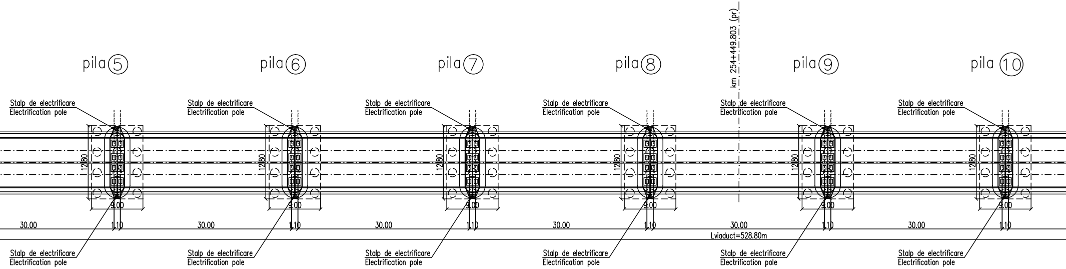
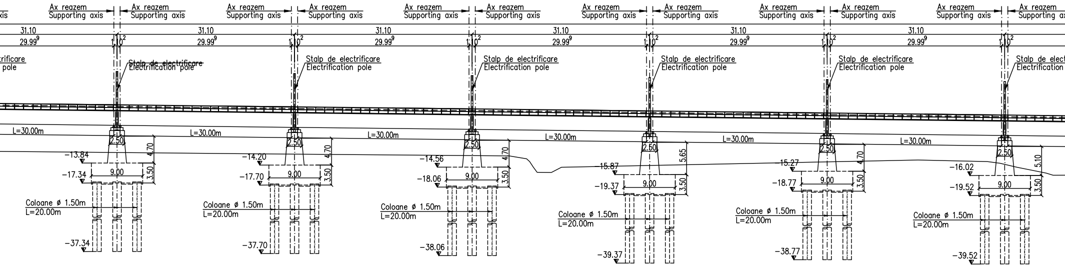

A
B
C
Zid garda km 254+185.403
Guard wall
Ax reazem
Supporting axis
31.15
29.99⁹
1.10²
31.10
Stalp de electrificare
Electrification pole
Dsg. R.U.L.
NSS pr.±0.00(486.593)
BRASOV
hr=3.50m
hc=3.09m
L=30.00m
2.50
2.60
−9.93
−11.58
−9.51
−12.51
−11.62
−15.12
9.00
3.50
6.05
5.65
Coloane ø 1.50m
L=20.00m
−32.51
−35.12
−11.98
−15.48
−35.48
−12.33
−15.83
−35.83
−12.29
−15.79
−35.79
pila①
pila②
pila③
pila④
2:3
Ax c.f. linia II
Ax tabliere
Ax c.f. linia I
4.20
1340
1280
30.00
1.10
Scara de acces pe tersament
Stairs access on embankment.

ELEVATIE
ELEVATION
Sc. 1:500

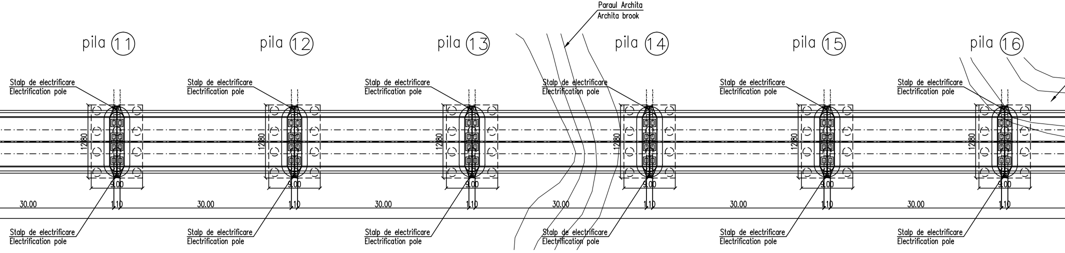

Ax reazem
Supporting axis
Lviaduct=528.80m
31.10
29.99⁹
1.10²
Stalp de electrificare
Electrification pole
-11.5‰
L=30.00m
2.50
5.65
5.10
4.70
3.50
9.00
-12.65
-16.15
-36.15
-12.46
-15.96
-35.96
-12.81
-16.31
-36.31
-12.77
-16.27
-36.27
-13.13
-16.63
-36.63
-13.49
-16.99
-36.99
Coloane ø 1.50m
L=20.00m

VEDERE IN PLAN
PLANE VIEW
Sc. 1:500


km 254+449.803 (pr)
pila ⑤
pila ⑥
pila ⑦
pila ⑧
pila ⑨
pila ⑩
Stalp de electrificare
Electrification pole
1280
9.00
30.00
1.10
Lviaduct=528.80m



Ax reazem
Supporting axis
31.10
29.99
1.10
Stalp de electrificare
Electrification pole
L=30.00m
2.50
4.70
3.50
5.65
5.10
9.00
−13.84
−17.34
−37.34
−14.20
−17.70
−37.70
−14.56
−18.06
−38.06
15.87
−19.37
−39.37
−15.27
−18.77
−38.77
−16.02
−19.52
−39.52
Coloane ø 1.50m
L=20.00m



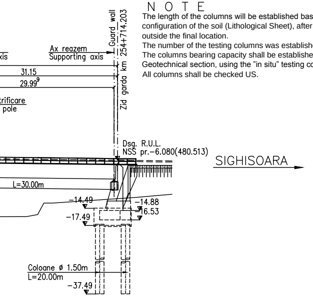
Paraul Archita
Archita brook
pila ⑪
pila ⑫
pila ⑬
pila ⑭
pila ⑮
pila ⑯
Stalp de electrificare
Electrification pole
1280
9.00
30.00
1.10

N O T A

Lungimea fisei coloanelor se va stabili in urma forarii ,,in situ” cu identificarea fisei litologice, si in urma incercarilor la rupere a coloanelor de proba executate in afara amplasamentului.
Numarul coloanelor de proba a fost stabilit conform prevederilor din EUROCOD.
Capacitatea portanta a coloanelor se va stabili conform prevederilor din EUROCOD, sectiunea Geotehnica, cu coeficientii pentru incercari ,,in situ”.
Toate coloanele se vor verifica US.

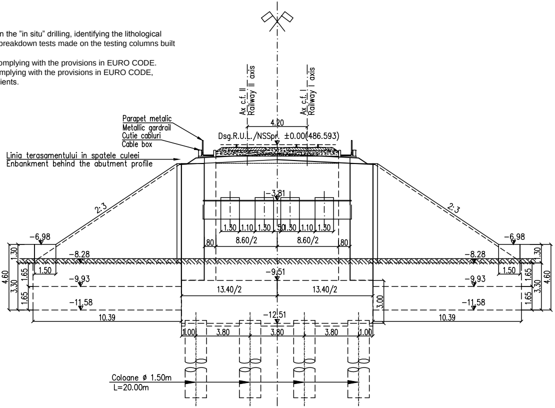
N O T E

The length of the columns will be established based on the ”in situ” drilling, identifying the lithological configuration of the soil (Lithological Sheet), after the breakdown tests made on the testing columns built outside the final location.
The number of the testing columns was established complying with the provisions in EURO CODE.
The columns bearing capacity shall be established complying with the provisions in EURO CODE, Geotechnical section, using the ”in situ” testing coefficients.
All columns shall be checked US.


xis
Ax reazem
Supporting axis
Guard wall
Zid garda km 254+714.203
31.15
29.99⁹
trificare
pole
Dsg. R.U.L.
NSS pr.−6.080(480.513)
SIGHISOARA
L=30.00m
−14.49
−14.88
−16.53
−17.49
Coloane ø 1.50m
L=20.00m
−37.49

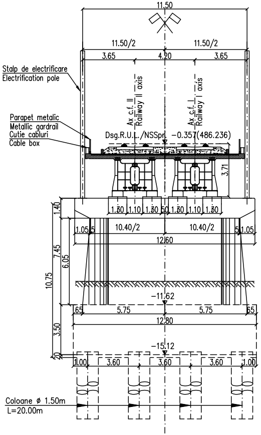
VEDERE FRONTALA CULEE A–A
FRONT VIEW A–A

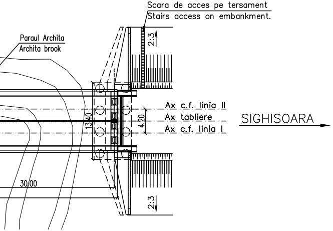
Sc. 1:200


Ax c.f. II
Railway II axis
Ax c.f. I
Railway I axis
Parapet metalic
Metallic gardrail
Cutie cabluri
Cable box
4.20
Dsg.R.U.L./NSSpr. ±0.00(486.593)
Linia terasamentului in spatele culeei
Enbankment behind the abutment profile
2:3
2:3
−3.81
1.30 1.10 1.30 50 1.30 1.10 1.30
80
8.60/2
8.60/2
80
−6.98
−6.98
−8.28
−8.28
1.30
1.65
4.60
3.30
1.65
1.50
1.50
−9.93
−9.93
−9.51
13.40/2
13.40/2
−11.58
−11.58
3.00
10.39
10.39
−12.51
1.00
3.80
3.80
3.80
1.00
Coloane ø 1.50m
L=20.00m

VEDERE FRONTALA PILA B–B
FRONT VIEW B–B

Sc. 1:200


11.50
11.50/2
11.50/2
3.65
4.20
3.65
Stalp de electrificare
Electrification pole
Ax c.f. II
Railway II axis
Ax c.f. I
Railway I axis
Parapet metalic
Metallic gardrail
Cutie cabluri
Cable box
Dsg.R.U.L./NSSpr. −0.357(486.236)
3.71
1.40
1.30 1.10 1.30 50 1.30 1.10 1.30
1.05 5
10.40/2
10.40/2
5 1.05
12.60
7.45
6.05
10.75
−11.62
65
5.75
5.75
65
12.80
3.50
−15.12
20
1.00
3.60
3.60
3.60
1.00
Coloane ø 1.50m
L=20.00m


Scara de acces pe tersament
Stairs access on embankment.
2:3
Paraul Archita
Archita brook
Ax c.f. linia II
Ax tabliere
Ax c.f. linia I
13.40
4.20
SIGHISOARA
30.00
2:3

N O T A

1. Prezentul plan s–a intocmit pe baza urmatoarelor date:
- plan de situatie;
- profil in lung;
- profil transversal;
- fisa podului;
- calcul hidraulic;
- date culese pe teren.

2. Podul corespunde la convoaiele de calcul UIC (LM71 si SW/2).

3. Noul pod are urmatoarea alcatuire:
- suprastructura: tablier metalic cu cuva din beton, pentru cale dubla;
- infrastructura: culei din beton armat, fundate direct.

4. La executie se vor respecta cu strictete prevederile din ”Normativ pentru producerea betonului si executarea lucrarilor din beton, beton armat si beton precomprimat. Partea 1: Producerea betonului”, indicativ NE 012/1–2007 si ”Normativ pentru producerea betonului si executarea lucrarilor din beton, beton armat si beton precomprimat. Partea 2: Executarea lucrarilor din beton”, indicativ NE 012/2–2010, iar verificarea calitatii lucrarilor si receptionarea lor se va face conform normativului C56–1985.

5. Constructia se incadreaza in categoria de importanta B (constructii de importanta deosebita), modelul 1 de asigurare a calitatii si clasa de importanta B, conform HG 766/1997.

6. Proiectul va fi verificat la exigentele A4.2; B2.2; D2.2

N O T E

1. This plan has been drawn up based on the following data:
- Lay–out Plan;
- Longitudinal Profile;
- Cross–section Profile;
- Bridge’s File;
- Hydraulic determination;
- Field Data.

2. Bridge convoys calculation corresponds to UIC (LM71 and SW/2.

3. The new bridge has the following structure:
- Superstructure: metallic deck with concrete box for double track;
- Infrastructure: abutments and reinforced concrete, with direct foundation.

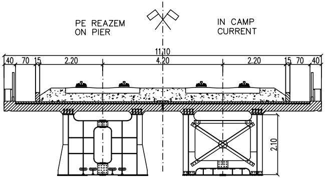
4. The execution will strictly comply with the provisions of ”Practice code
the concrete production and works execution, reinforced and pre–stressed cor
– Part 1: Practice code for concrete production” NE 012/1–2007 and ”Pract
code for the concrete production and works execution, reinforced and pre–str
concrete – Part 2: The execution of concrete works.” NE 012/2–2010, and t
quality and the reception of the works shall be made accordingly to Norm C
56–1985.

5. The construction has been classified in B category of importance (high
important constructions), model 1–ensuring the quality and class of importanc
according to G.O. 766/97.

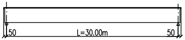
6. The project will be checked in order to comply with the A4.2; B2.2; D2.2 requirements.

SECTIUNE PRIN TABLIER C–C
DECK CROSS SECTION C–C

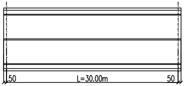
Sc. 1:100


PE REAZEM
ON PIER
IN CAMP
CURRENT
11,10
40
70
15
2.20
4.20
2.20
15
70
40
2.10

SCHEMA GEOMETRICA A TABLIERULUI
GENERAL SCHEME


50
L=30.00m
50

PLAN / PLANE


50
L=30.00m
50

for
crete
ice
essed
he

ce B

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D					
C					
B					
A	12.2011	Revizia 1 1 Revision	Mihai Ady Nicolae		
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 EUROPE
EUROPEAN UNION FINANCED PRO

CLIENT / CLIENT

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

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		

SUBCONTRACTANT / SUBCONTRACTOR

AREX Lider COMPANY

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A. Dinulescu Stanciu	11.2011	
Întocmit Elaborated	Proiectant Designer	Mihai Ady Nicolae	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.
D.E. / E.D.

Denumire desen / Drawing Title :

INTERVAL /SECTION CATA-ARCHITA
Viaduct Km 254+449.803 D=17x30.00 m
DISPOZITIE GENERALA
Bridge Km 254+449.803 - GENERAL LAYOUT

Codificare / Codification System	Scara / Scale 1:500	LOT / LOT	Nr. / No 01 / 01

E	A	5	1	0	1	C	1	4	L	8	P	V	0	3	3	0	0	0	2	1

297x1835