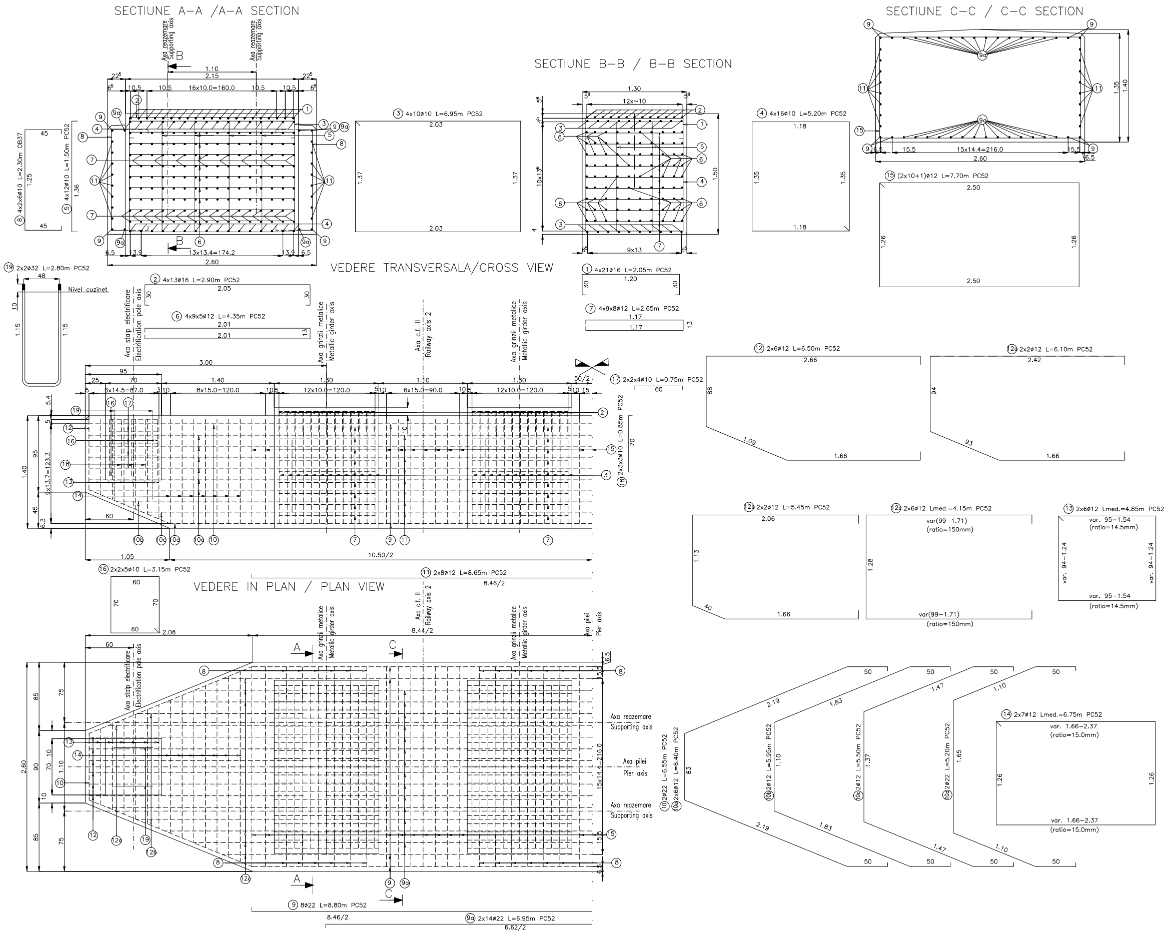
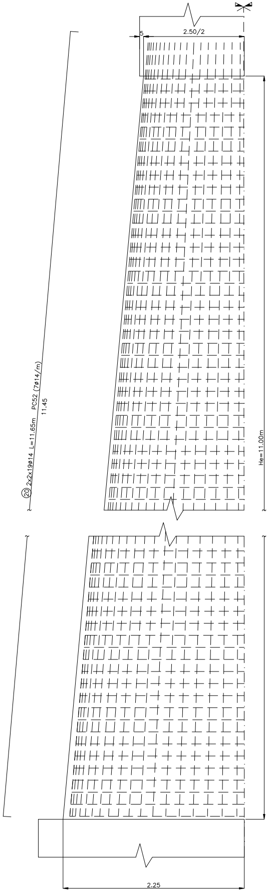
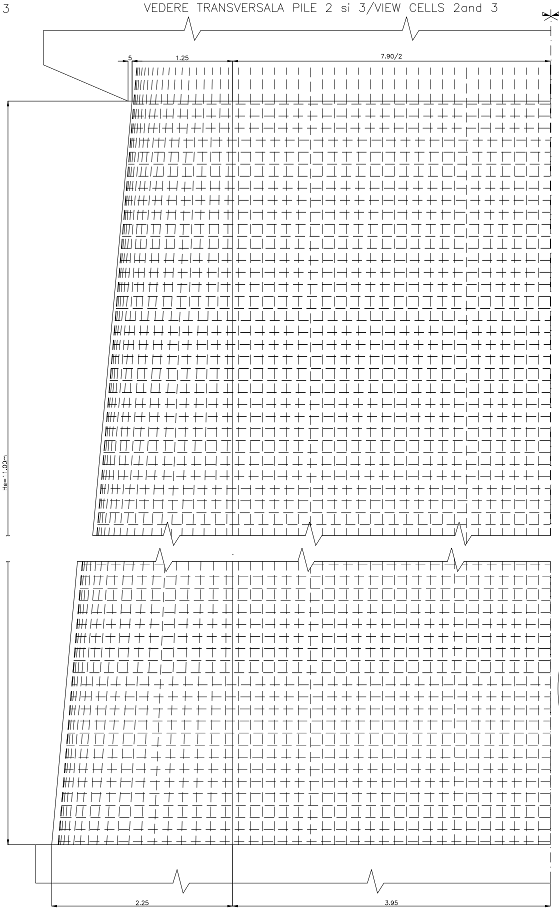

SECTIUNE A–A /A–A SECTION
Axa reazemare Supporting axis
B
1.10
2.15
22⁵
6⁵
10.5
16x10.0=160.0
6.5
13.9
13x13.4=174.2
2.60
8 4x2x6ø10 L=2.30m OB37
45
1.25
5 4x12ø10 L=1.50m PC52
1.36
3 4x10ø10 L=6.95m PC52
2.03
1.37
SECTIUNE B–B / B–B SECTION
1.30
12x~10
10x13⁶
1.50
9x13
4 4x16ø10 L=5.20m PC52
1.18
1.35
SECTIUNE C–C / C–C SECTION
15.5
15x14.4=216.0
2.60
1.35
1.40
15 (2x10+1)ø12 L=7.70m PC52
2.50
1.26
19 2x2ø32 L=2.80m PC52
48
Nivel cuzinet
10
1.15
VEDERE TRANSVERSALA/CROSS VIEW
2 4x13ø16 L=2.90m PC52
2.05
30
6 4x9x5ø12 L=4.35m PC52
2.01
13
1 4x21ø16 L=2.05m PC52
1.20
7 4x9x8ø12 L=2.65m PC52
1.17
Axa stalp electrificare Electrification pole axis
Axa grinzii metalice Metallic girder axis
Axa c.f. II Railway axis 2
3.00
95
70
25
6x14.5=87.0
1.40
8x15.0=120.0
1.30
12x10.0=120.0
1.10
6x15.0=90.0
50/2
17 2x2x4ø10 L=0.75m PC52
60
18 2x3x3ø10 L=0.85m PC52
70
1.40
9x13.7=123.3
45
1.05
10.50/2
12 2x6ø12 L=6.50m PC52
2.66
88
1.09
1.66
12a 2x2ø12 L=6.10m PC52
2.42
94
93
12b 2x2ø12 L=5.45m PC52
2.06
1.13
40
12c 2x6ø12 L=4.15m PC52
var(99–1.71) (ratio=150mm)
1.28
13 2x6ø12 Lmed.=4.85m PC52
var. 95–1.54 (ratio=14.5mm)
var. 94–1.24
16 2x2x5ø10 L=3.15m PC52
60
70
11 2x8ø12 L=8.65m PC52
8.46/2
VEDERE IN PLAN / PLAN VIEW
Axa c.f. II Railway axis 2
8.44/2
Axa pilei Pier axis
2.08
A
C
Axa reazemare Supporting axis
Axa pilei Pier axis
15x14.4=216.0
2.60
85
75
90
1.10
10 2ø22 L=6.55m PC52
10a 2x6ø12 L=6.40m PC52
10b 2ø12 L=5.95m PC52
10c 2ø12 L=5.50m PC52
10d 2ø12 L=5.20m PC52
2.19
1.83
1.47
1.10
50
83
1.37
1.65
14 2x7ø12 Lmed.=6.75m PC52
var. 1.66–2.37 (ratio=15.0mm)
1.26
9 8ø22 L=8.80m PC52
8.46/2
9a 2x14ø22 L=6.95m PC52
6.62/2

ELEVATIE PILE 2 si 3/ELEVATION CELLS 2 and 3



5
2.50/2
He=11.00m
⑳ 2x2x19ø14 L=11.65m PC52 (7ø14/m)
11.45
2.25

VEDERE TRANSVERSALA PILE 2 si 3/VIEW CELLS 2and 3

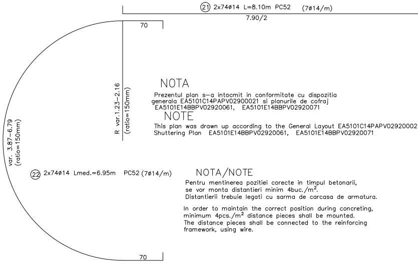


5
1.25
7.90/2
He=11.00m
2.25
3.95

EXTRAS DE ARMATURA PENTRU ARMAREA PILELOR 2 si 3
REINFORCEMENT FOR CELLS No. 2 and No.3

Inaltimea elevatiei=11.00m
Elevation height=11.00m

Marca Position	Diametru Diameter	Nr.buc. No.pcs.	Lung./buc.(m) Lenght/pcs.(m)	LUNGIMI PE DIAMETRU LENGHT PER DIAMETER PC 52 PC 52					
				S 355			S 345		S 335
				ø10	ø12	ø14	ø16	ø22	ø32
1	16	84	2.05				172.00		
2	16	52	2.90				150.80		
3	10	40	6.95	278.00					
4	10	64	5.20	332.80					
5	10	48	1.50	72.00					
6	12	180	4.35		624.66				
7	12	288	2.65		763.20				
8	10	48	2.30	110.40					
9	22	8	8.80					70.40	
9a	22	28	6.95					194.60	
10	22	2	6.55					13.10	
10a	12	12	6.40		76.80				
10b	12	2	5.95		11.90				
10c	12	2	5.50		11.00				
10d	22	2	5.20					10.40	
11	12	16	8.65		95.15				
12	12	12	6.50		78.00				
12a	12	4	Lmed.=6.10		24.40				
12b	12	4	5.45		21.80				
12c	12	12	4.15		49.80				
13	12	12	Lmed.=4.85		58.20				
14	12	14	Lmed.=6.75		94.50				
15	12	21	7.70		161.70				
16	10	20	3.15	63.00					
17	10	16	0.75	12.00					
18	10	18	0.85	15.30					
19	32	4	2.80						11.20
20	14	76	11.65			885.40			
21	14	148	8.10			1198.80			
22	14	148	Lmed.=6.95			1028.60			
Lungimi totale pe diametre/Lenght/Diameter (m)				892.50	2071.11	3112.80	322.80	288.50	11.20
Masa pe metru / Weight/meter (kg/m)				0.617	0.888	1.208	1.578	2.984	6.313
Masa pe diametre / Weight/Diameter (kg)				550.70	1839.15	3760.30	509.40	860.90	70.70
Masa pe tip otel / Weight/Steel Type (kg)				6150.15			1370.30		70.70
Masa totala tablier / Total Weight (kg)				7591.15					
Pierderi 5% / Steel Loss 5% (kg)				408.85					
Masa totala pentru o pila (kg) Total Weight for one cell (kg)				8000					
Masa totala pentru pilele 2 si 3 Total Weight for cells no. 2 and no.3				16.000 Kg.					



㉑ 2x74ø14 L=8.10m PC52 (7ø14/m)
7.90/2
70
R var.1.23–2.16 (ratio=150mm)
var. 3.87–6.79 (ratio=150mm)
㉒ 2x74ø14 Lmed.=6.95m PC52 (7ø14/m)
70

NOTA

Prezentul plan s–a intocmit in conformitate cu dispozitia generala EA5101C14PAPV02900021 si planurile de cofraj EA5101E14BBPV02920061, EA5101E14BBPV02920071

NOTE

This plan was drawn up according to the General Layout EA5101C14PAPV02920002 Shuttering Plan EA5101E14BBPV02920061, EA5101E14BBPV02920071

NOTA/NOTE

Pentru mentinerea pozitiei corecte in timpul betonarii, se vor monta distantieri minim 4buc./m^2. Distantierii trebuie legati cu sarma de carcasa de armatura.

In order to maintain the correct position during concreting, minimum 4pcs./m^2 distance pieces shall be mounted. The distance pieces shall be connected to the reinforcing framework, using wire.

Beton armat/Reinforced concrete:	– C35/45 bancheta,/ bench – C25/30 elevatie/ elevation
Armatura / reinforcement:	–S355 (PC 52; ø10–ø14) –S345 (PC 52; ø16) –S345, S335
Strat de acoperire/concrete cover	– min. 4cm expunere in aer/air exposed

EXTRAS DE ARMATURA PENTRU ARMAREA PILEI 1 si 4
REINFORCEMENT FOR CELL No. 1 and No. 4

Inaltimea elevatiei=7.00m
Elevation height=7.00m

Marca Position	Diametru Diameter	Nr.buc. No.pcs.	Lung./buc.(m) Lenght/pcs.(m)	LUNGIMI PE DIAMETRU LENGHT PER DIAMETER PC 52 PC 52					
				S 355			S 345		S 335
				ø10	ø12	ø14	ø16	ø22	ø32
20	14	76	7.65			885.40			
21	14	47	8.10			380.70			
22	14	47	Lmed.=6.40			300.80			
Lungimi totale pe diametre/Lenght/Diameter (m)				892.50	2071.11	1566.90	322.80	288.50	11.20
Masa pe metru / Weight/meter (kg/m)				0.617	0.888	1.208	1.578	2.984	6.313
Masa pe diametre / Weight/Diameter (kg)				550.70	1839.15	1892.85	509.40	860.90	70.70
Masa pe tip otel / Weight/Steel Type (kg)				4282.70			1370.30		70.70
Masa totala tablier / Total Weight (kg)				5723.70					
Pierderi 5% / Steel Loss 5% (kg)				276.30					
Masa totala pentru o pila (kg) Total Weight for one cell (kg)				6000					
Masa totala pentru pilele 1 si 4 Total Weight for cells no. 1 and no. 4				12.000 Kg.					

NOTA

Armaturile pentru perechile de pile 2,3 si 1,4 sunt identice de la marca ① la marca ⑲

NOTE

Reinforcement bars are identical for cell pairs 2,3 and 1,4 from position ① to position ⑲

Axa transversala a pilei
Tansversal cell axis

1 and

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D					
C					
B					
A					
Indice Index	Data Date	Modificare Modification/Revision	Proiectant Designer	Aprobat Consultant Approved Consultant	Aprobat CFR Approved CFR

GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ
EUROPEAN UNION FINANCED PROJECT

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

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A.Stanciu - Dinulescu	02.2012	
Întocmit Elaborated	Proiectant Designer	Valentin Florea	02.2012	

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 251+436.242 - D= 5x30.00m PLAN ARMARE PILE
Viaduct Km.251+436.242 S=5x30.00m REINFORCEMENT PLAN CELLS

Codificare / Codification System	Scara / Scale 1:20	LOT / LOT	Nr. / No 01 / 01

E A 5 1 | 0 1 | E | 1 4 | B C | P V | 0 2 | 9 | 2 | 0 1 0 | 0

597x1760