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 EURO
EUROPEAN UNION FINANCED PR

CFR

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	*ef proiect Project manager	R. Liuzza	12.12.2011	
Aprobat Approved	Coordonator Secțiune 1 Section 1 Coordinator	C. Gambelli	12.12.2011	
Verificat Checked	Expert Cheie Key Expert	P. Amodio	12.12.2011	

SUBCONTRACTANT / SUBCONTRACTOR

AREX COMPANY

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A. Stanciu - Dinulescu	12.12.2011	
Întocmit Elaborated	Proiectant Designer	Ing. Juganaru Adriana	12.12.2011	

Reabilitarea liniei de cale ferata Brasov - Simeria, parte componentă a coridorului IV Pan European, pentru circulația trenurilor cu viteza maximă de 160 km/h, Tronsonul : Brasov - Sighisoara

Rehabilitation of the railway line Brasov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h, Section : Brasov - Sighisoara

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

Faza / Phase:
D.E. / D.D.

Denumire desen / Drawing Title :

Statia / Station ALBESTI TARNAVA
Fise si regletele ramei B1
Wiring diagrams for B1 frame

Codificare / Codification System	Scara / Scale Fără / No scale	LOT / LOT	Nr. / No 01 / 09

E A 5 1 | 0 1 | E | 1 9 | B X | S E | 0 1 | 9 | 2 | 0 1 9 | 0

ESTE INTERZISA MODIFICAREA, INSTRAINAREA, COPIEREA SI MULTIPLICAREA ACESTOR SCHEME ELECTRICE SUB1 FORMA TIPARITA SAU ELECTRONICA, FARA APROBIAREA SCRISA A AREX, CARE ARE DREPTUL DE PROPRIETATE INTELECTUALA ASUPRA ACESTORA
AREX ISI REZERVA DREPTUL DE A MODIFICA ACESTE SCHEME ELECTRICE ATUNCI CAND ESTE NECESAR.

	1	2	3
7	NF1-2000 XF-1AD(b)	NF1-2000 X-1AD(b)	NF1-2000 033-C
6	NF1-2000 (5-13)c-Si	NF1-2000 7-9-Si	NF1-2000 (7-9)b-Si
5	NF1-2000 YF-1AD(a)	NF1-2000 Y-1AD(a)	NF1-2000 024-C
4	NF1-2000 16-18-Si	NF1-2000 1-C	NF1-2000 5-C
3		NF1L-400 ASA-4 A1	NF1L-400 ASA-4 A3
2			
1			

Nr. crt.	Tip releu	buc.
1	NF1-2000	28
2	NF1L-400	8
3	ASA-4	8

Statia: Albesti

RAMA B1

4	5	6	7	8	9
NF1–2000 023–C	NF1–2000 3–Si	NF1–2000 1–Si	NF1–2000 025–C	NF1–2000 5–13–Si	NF1–2000 (5–13)b–Si
NF1–2000 II–C	NF1–2000 III–C	NF1–2000 4–C			
NF1–2000 034–C	NF1–2000 2–8–Si	NF1–2000 4–6–Si	NF1–2000 10–Si	NF1–2000 12–Si	NF1–2000 14–Si
NF1–2000 002–C					
NF1L–400 ASA–4 A5	NF1L–400 ASA–4 A7	NF1L–400 ASA–4 A2	NF1L–400 ASA–4 A4	NF1L–400 ASA–4 A6	NF1L–400 ASA–4 A8

ESTE INTERZISA MODIFICAREA, INSTRAINAREA, COPIEREA SI MULTIPLICAREA ACESTOR SCHEME ELECTRICE SUB FORMA TIPARITA SAU ELECTRONICA, FARA APROBAREA SCRISA A AREX, CARE ARE DREPTUL DE PROPRIETATE INTELECTUALA ASUPRA ACESTORA
AREX ISI REZERVA DREPTUL DE A MODIFICA ACESTE SCHEME ELECTRICE ATUNCI CAND ESTE NECESAR.

RANDUL 3

9		8		7		6		5		4		3		2		1	
Nr. crt.	A8	Nr. crt.	A6	Nr. crt.	A4	Nr. crt.	A2	Nr. crt.	A7	Nr. crt.	A5	Nr. crt.	A3	Nr. crt.	A1	Nr. crt.	
1	A13	1	A13	1	A13	1	A13	1	A13	1	A13	1	A13	1	A13		
2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3		
3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2		
4	A12	4	A12	4	A12	4	A12	4	A12	4	A12	4	A12	4	A12		
12		12		12		12		12		12		12		12			
11		11		11		11		11		11		11		11			
13		13		13		13		13		13		13		13			
22	B1–3–15	22	9–21	22	8–21	22	7–21	22	6–21	22	5–21	22	4–21	22	3–21		
21	8–22	21	7–22	21	6–22	21	5–22	21	4–22	21	3–22	21	2–22	21	B1–2–16		
23		23		23		23		23		23		23		23			
32		32		32		32		32		32		32		32			
31		31		31		31		31		31		31		31			
33		33		33		33		33		33		33		33			
42		42		42		42		42		42		42		42			
41		41		41		41		41		41		41		41			
43		43		43		43		43		43		43		43			
52		52		52		52		52		52		52		52			
51		51		51		51		51		51		51		51			
53		53		53		53		53		53		53		53			
62		62		62		62		62		62		62		62			
61		61		61		61		61		61		61		61			
63		63		63		63		63		63		63		63			
72		72		72		72		72		72		72		72			
71		71		71		71		71		71		71		71			
73		73		73		73		73		73		73		73			
82		82		82		82		82		82		82		82			
81		81		81		81		81		81		81		81			
83		83		83		83		83		83		83		83			
A1	8–A1 B1–10–18	A1	7–A1 9–A1	A1	6–A1 8–A1	A1	5–A1 7–A1	A1	4–A1 6–A1	A1	3–A1 5–A1	A1	2–A1 4–A1	A1	3–A1		
A5	B1–10–16	A5	B1–10–14	A5	B1–10–12	A5	B1–10–10	A5	B1–10–8	A5	B1–10–6	A5	B1–10–4	A5	B1–10–2		
(+) A12	4	(+) A12	4	(+) A12	4	(+) A12	4	(+) A12	4	(+) A12	4	(+) A12	4	(+) A12	4		
(–) A13	1	(–) A13	1	(–) A13	1	(–) A13	1	(–) A13	1	(–) A13	1	(–) A13	1	(–) A13	1		
A6	A10	A6	A10	A6	A10	A6	A10	A6	A10	A6	A10	A6	A10	A6	A10		
A9	A11	A9	A11	A9	A11	A9	A11	A9	A11	A9	A11	A9	A11	A9	A11		

B1–3
A1–A8

Statia: Albesti

ESTE INTERZISA MODIFICAREA, INSTRAINAREA, COPIEREA SI MULTIPLICAREA ACESTOR SCHEME ELECTRICE SUB FORMA TIPARITA SAU ELECTRONICA, FARA APROBAREA SCRISA A AREX, CARE ARE DREPTUL DE PROPRIETATE INTELECTUALA ASUPRA ACESTORA
AREX ISI REZERVA DREPTUL DE A MODIFICA ACESTE SCHEME ELECTRICE ATUNCI CAND ESTE NECESAR.

RANDUL 4

	9		8		7		6		5		4		3		2		1
Nr. crt.		Nr. crt.		Nr. crt.		Nr. crt.		Nr. crt.		Nr. crt.	002-C	Nr. crt.	5-C	Nr. crt.	1-C	Nr. crt.	16-18-Si
1		1		1		1		1		1		1		1		1	
2		2		2		2		2		2	B1-8-25	2	B1-8-23	2	B1-8-21	2	B1-8-19
3		3		3		3		3		3		3		3		3	
4		4		4		4		4		4	B1-8-26	4	B1-8-24	4	B1-8-22	4	B1-8-20
12		12		12		12		12		12		12		12		12	
11		11		11		11		11		11		11		11		11	
13		13		13		13		13		13		13		13		13	
22		22		22		22		22		22	B1-3-13	22	B1-3-11	22	B1-3-9	22	B1-3-7
21		21		21		21		21		21	B1-2-14	21	B1-2-12	21	B1-2-10	21	B1-2-8
23		23		23		23		23		23	B1-3-14	23	B1-3-12	23	B1-3-10	23	B1-3-8
32		32		32		32		32		32		32		32		32	
31		31		31		31		31		31		31		31		31	
33		33		33		33		33		33		33		33		33	
42		42		42		42		42		42		42		42		42	
41		41		41		41		41		41		41		41		41	
43		43		43		43		43		43		43		43		43	
52		52		52		52		52		52		52		52		52	
51		51		51		51		51		51		51		51		51	
53		53		53		53		53		53		53		53		53	
62		62		62		62		62		62		62		62		62	
61		61		61		61		61		61		61		61		61	
63		63		63		63		63		63		63		63		63	
72		72		72		72		72		72		72		72		72	
71		71		71		71		71		71		71		71		71	
73		73		73		73		73		73		73		73		73	
82		82		82		82		82		82		82		82		82	
81		81		81		81		81		81		81		81		81	
83		83		83		83		83		83		83		83		83	

B1-4

Statia: Albesti

ESTE INTERZISA MODIFICAREA, INSTRAINAREA, COPIEREA SI MULTIPLICAREA ACESTOR SCHEME ELECTRICE SUB1 FORMA TIPARITA SAU ELECTRONICA, FARA APROBAREA SCRISA A AREX, CARE ARE DREPTUL DE PROPRIETATE INTELECTUALA ASUPRA ACESTORA
AREX ISI REZERVA DREPTUL DE A MODIFICA ACESTE SCHEME ELECTRICE ATUNCI CAND ESTE NECESAR.

RANDUL 5

	9		8		7		6		5		4		3		2		1
Nr. crt.	14-Si	crt.	12-Si	crt.	10-Si	crt.	4-6-Si	crt.	2-8-Si	crt.	034-C	crt.	024-C	crt.	Y-1AD(a)	crt.	YF-1AD(a)
1		1		1		1		1		1		1		1		1	
2	B1-8-17	2	B1-8-15	2	B1-8-13	2	B1-8-11	2	B1-8-9	2	B1-8-7	2	B1-8-5	2	B1-8-3	2	B1-8-1
3		3		3		3		3		3		3		3		3	
4	B1-8-18	4	B1-8-16	4	B1-8-14	4	B1-8-12	4	B1-8-10	4	B1-8-8	4	B1-8-6	4	B1-8-4	4	B1-8-2
12		12		12		12		12		12		12		12		12	
11		11		11		11		11		11		11		11		11	
13		13		13		13		13		13		13		13		13	
22	B1-3-5	22	B1-3-3	22	B1-3-1	22	B1-1-36	22	B1-1-34	22	B1-1-32	22	B1-1-30	22	B1-1-28	22	B1-1-26
21	B1-2-6	21	B1-2-4	21	B1-2-2	21	B1-1-35	21	B1-1-33	21	B1-1-31	21	B1-1-29	21	B1-1-27	21	B1-1-25
23	B1-3-6	23	B1-3-4	23	B1-3-2	23	B1-2-35	23	B1-2-33	23	B1-2-31	23	B1-2-29	23	B1-2-27	23	B1-2-25
32		32		32		32		32		32		32		32		32	
31		31		31		31		31		31		31		31		31	
33		33		33		33		33		33		33		33		33	
42		42		42		42		42		42		42		42		42	
41		41		41		41		41		41		41		41		41	
43		43		43		43		43		43		43		43		43	
52		52		52		52		52		52		52		52		52	
51		51		51		51		51		51		51		51		51	
53		53		53		53		53		53		53		53		53	
62		62		62		62		62		62		62		62		62	
61		61		61		61		61		61		61		61		61	
63		63		63		63		63		63		63		63		63	
72		72		72		72		72		72		72		72		72	
71		71		71		71		71		71		71		71		71	
73		73		73		73		73		73		73		73		73	
82		82		82		82		82		82		82		82		82	
81		81		81		81		81		81		81		81		81	
83		83		83		83		83		83		83		83		83	

B1-5

Statia: Albesti

ESTE INTERZISA MODIFICAREA, INSTRAINAREA, COPIEREA SI MULTIPLICAREA ACESTOR SCHEME ELECTRICE SUB FORMA TIPARITA SAU ELECTRONICA, FARA APROBAREA SCRISA A AREX, CARE ARE DREPTUL DE PROPRIETATE INTELECTUALA ASUPRA ACESTORA
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RANDUL 6

	9		8		7		6		5		4		3		2		1
crt.		crt.		crt.		crt.	4-C	crt.	III-C	crt.	II-C	crt.	(7-9)b-Si	crt.	7-9-Si	crt.	(5-13)c-Si
1		1		1		1		1		1		1		1		1	
2		2		2		2	B1-7-29	2	B1-7-27	2	B1-7-25	2	B1-7-23	2	3-11	2	B1-7-19
3		3		3		3		3		3		3		3		3	
4		4		4		4	B1-7-30	4	B1-7-28	4	B1-7-26	4	B1-7-24	4	B1-7-22	4	B1-7-20
12		12		12		12		12		12		12	B1-7-21	12		12	B1-7-15
11		11		11		11		11		11		11	2-2	11		11	79-12
13		13		13		13		13		13		13		13		13	
22		22		22		22	B1-1-24	22	B1-1-22	22	B1-1-20	22		22	B1-1-18	22	
21		21		21		21	B1-1-23	21	B1-1-21	21	B1-1-19	21		21	B1-1-17	21	
23		23		23		23	B1-2-23	23	B1-2-21	23	B1-2-19	23		23	B1-2-17	23	
32		32		32		32		32		32		32		32		32	
31		31		31		31		31		31		31		31		31	
33		33		33		33		33		33		33		33		33	
42		42		42		42		42		42		42		42		42	
41		41		41		41		41		41		41		41		41	
43		43		43		43		43		43		43		43		43	
52		52		52		52		52		52		52		52		52	
51		51		51		51		51		51		51		51		51	
53		53		53		53		53		53		53		53		53	
62		62		62		62		62		62		62		62		62	
61		61		61		61		61		61		61		61		61	
63		63		63		63		63		63		63		63		63	
72		72		72		72		72		72		72		72		72	
71		71		71		71		71		71		71		71		71	
73		73		73		73		73		73		73		73		73	
82		82		82		82		82		82		82		82		82	
81		81		81		81		81		81		81		81		81	
83		83		83		83		83		83		83		83		83	

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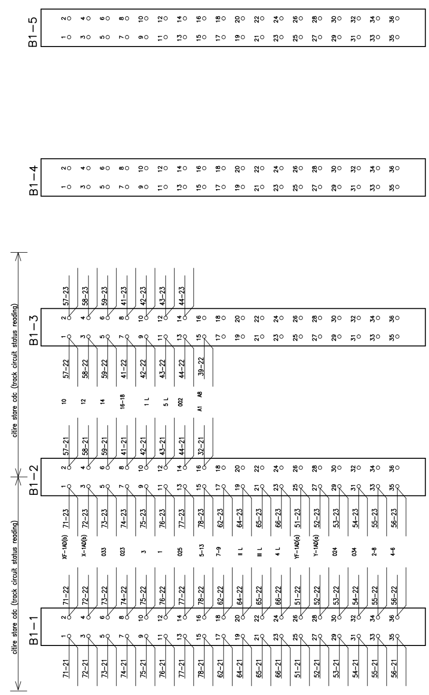
ESTE INTERZISA MODIFICAREA, INSTRAINAREA, COPIEREA SI MULTIPLICAREA ACESTOR SCHEME ELECTRICE SUB FORMA TIPARITA SAU ELECTRONICA, FARA APROBAREA SCRISA A AREX, CARE ARE DREPTUL DE PROPRIETATE INTELECTUALA ASUPRA ACESTORA
AREX ISI REZERVA DREPTUL DE A MODIFICA ACESTE SCHEME ELECTRICE ATUNCI CAND ESTE NECESAR.

RANDUL 7

	9		8		7		6		5		4		3		2		1
Nr. crt.	(5-13)b-Si	Nr. crt.	5-13-Si	Nr. crt.	025-C	Nr. crt.	1-Si	Nr. crt.	3-Si	Nr. crt.	023-C	Nr. crt.	033-C	Nr. crt.	X-1AD(b)	Nr. crt.	XF-1AD(b)
1		1		1		1		1		1		1		1		1	
2	B1-7-17	2	9-11	2	B1-7-13	2	B1-7-11	2	B1-7-9	2	B1-7-7	2	B1-7-5	2	B1-7-3	2	B1-7-1
3		3		3		3		3		3		3		3		3	
4	B1-7-18	4	B1-7-16	4	B1-7-14	4	B1-7-12	4	B1-7-10	4	B1-7-8	4	B1-7-6	4	B1-7-4	4	B1-7-2
12	61-11	12		12		12		12		12		12		12		12	
11	8-2	11		11		11		11		11		11		11		11	
13		13		13		13		13		13		13		13		13	
22		22	B1-1-16	22	B1-1-14	22	B1-1-12	22	B1-1-10	22	B1-1-8	22	B1-1-6	22	B1-1-4	22	B1-1-2
21		21	B1-1-15	21	B1-1-13	21	B1-1-11	21	B1-1-9	21	B1-1-7	21	B1-1-5	21	B1-1-3	21	B1-1-1
23		23	B1-2-15	23	B1-2-13	23	B1-2-11	23	B1-2-9	23	B1-2-7	23	B1-2-5	23	B1-2-3	23	B1-2-1
32		32		32		32		32		32		32		32		32	
31		31		31		31		31		31		31		31		31	
33		33		33		33		33		33		33		33		33	
42		42		42		42		42		42		42		42		42	
41		41		41		41		41		41		41		41		41	
43		43		43		43		43		43		43		43		43	
52		52		52		52		52		52		52		52		52	
51		51		51		51		51		51		51		51		51	
53		53		53		53		53		53		53		53		53	
62		62		62		62		62		62		62		62		62	
61		61		61		61		61		61		61		61		61	
63		63		63		63		63		63		63		63		63	
72		72		72		72		72		72		72		72		72	
71		71		71		71		71		71		71		71		71	
73		73		73		73		73		73		73		73		73	
82		82		82		82		82		82		82		82		82	
81		81		81		81		81		81		81		81		81	
83		83		83		83		83		83		83		83		83	

B1-7

ESTE INTERZISA MODIFICAREA, INSTRAINAREA, COPIEREA SI MULTIPLICAREA ACESTOR SCHEME ELECTRICE SUB1 FORMA TIPARITA SAU ELECTRONICA, FARA APROBAREA SCRISA A AREX, CARE ARE DREPTUL DE PROPRIETATE INTELECTUALA ASUPRA ACESTORA
AREX ISI REZERVA DREPTUL DE A MODIFICA ACESTE SCHEME ELECTRICE ATUNCI CAND ESTE NECESAR.


B1-5
B1-4
B1-3
B1-2
B1-1
citire stare cdc (track circuit status reading)
citire stare cdc (track circuit status reading)
71-21
72-21
73-21
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76-22
77-22
78-22
62-22
64-22
65-22
66-22
51-22
52-22
53-22
54-22
55-22
56-22
XF-1AD(b)
X-1AD(b)
033
023
3
1
025
5-13
7-9
II L
III L
4 L
YF-1AD(a)
Y-1AD(a)
024
034
2-8
4-6
71-23
72-23
73-23
74-23
75-23
76-23
77-23
78-23
62-23
64-23
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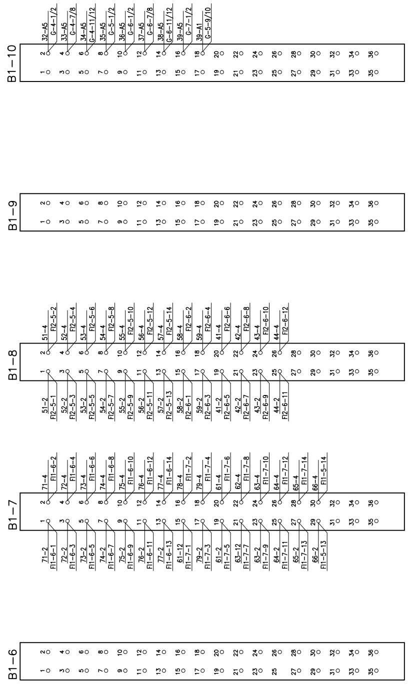
59-21
41-21
42-21
43-21
44-21
32-21
10
12
14
16-18
1 L
5 L
002
A1 A8
57-22
58-22
59-22
41-22
42-22
43-22
44-22
39-22
57-23
58-23
59-23
41-23
42-23
43-23
44-23

Statia: Albesti **EA51 01 E 19 BX SE 019 2 019 0** **8/9**

ESTE INTERZISA MODIFICAREA, INSTRAINAREA, COPIEREA SI MULTIPLICAREA ACESTOR SCHEME ELECTRICE SUB1 FORMA TIPARITA SAU ELECTRONICA, FARA APROBAREA SCRISA A AREX, CARE ARE DREPTUL DE PROPRIETATE INTELECTUALA ASUPRA ACESTORA
AREX ISI REZERVA DREPTUL DE A MODIFICA ACESTE SCHEME ELECTRICE ATUNCI CAND ESTE NECESAR.


B1-10
B1-9
B1-8
B1-7
B1-6
32-A5 G-4-1/2
33-A5 G-4-7/8
34-A5 G-4-11/12
35-A5 G-5-1/2
36-A5 G-6-1/2
37-A5 G-6-7/8
38-A5 G-6-11/12
39-A5 G-7-1/2
39-A1 G-5-9/10
51-4 FI2-5-2
52-4 FI2-5-4
53-4 FI2-5-6
54-4 FI2-5-8
55-4 FI2-5-10
56-4 FI2-5-12
57-4 FI2-5-14
58-4 FI2-6-2
59-4 FI2-6-4
41-4 FI2-6-6
42-4 FI2-6-8
43-4 FI2-6-10
44-4 FI2-6-12
51-2 FI2-5-1
52-2 FI2-5-3
53-2 FI2-5-5
54-2 FI2-5-7
55-2 FI2-5-9
56-2 FI2-5-11
57-2 FI2-5-13
58-2 FI2-6-1
59-2 FI2-6-3
41-2 FI2-6-5
42-2 FI2-6-7
43-2 FI2-6-9
44-2 FI2-6-11
71-4 FI1-6-2
72-4 FI1-6-4
73-4 FI1-6-6
74-4 FI1-6-8
75-4 FI1-6-10
76-4 FI1-6-12
77-4 FI1-6-14
78-4 FI1-7-2
79-4 FI1-7-4
61-4 FI1-7-6
62-4 FI1-7-8
63-4 FI1-7-10
64-4 FI1-7-12
65-4 FI1-7-14
66-4 FI1-5-14
71-2 FI1-6-1
72-2 FI1-6-3
73-2 FI1-6-5
74-2 FI1-6-7
75-2 FI1-6-9
76-2 FI1-6-11
77-2 FI1-6-13
61-12 FI1-7-1
79-2 FI1-7-3
61-2 FI1-7-5
63-12 FI1-7-7
63-2 FI1-7-9
64-2 FI1-7-11
65-2 FI1-7-13
66-2 FI1-5-13

Statia: Albesti **EA51 01 E 19 BX SE 019 2 019 0** **9/9**