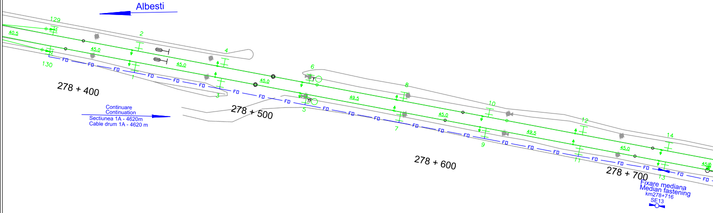
2		4		6		8		10		12		14	
H	437	H	482	H	527	H	576.5	H	621.5	H	671	H	716
–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–

E1		E1		E1		E1		E1		E1		E1	
5500	–	5500	–	5500	–	5500	–	5500	–	5500	–	5500	–
1400	–	1400	–	1400	–	1400	–	1400	–	1400	–	1400	–
6900	DI	6900	DD	6900	DI	6900	DD	6900	DI	6900	DD	6900	DI
+200	CO/	−200	CO/	+200	CO/	−200	CO/	+200	CO/	−200	CO/	+200	CO/


Albesti
129
40.5
2
45.0
4
130
FD
1
45.0
3
6
45.0
5
49.5
8
7
45.0
10
9
49.5
12
11
14
45.0
13
45.0
278 + 400
278 + 500
278 + 600
278 + 700
Continuare
Continuation
Sectiunea 1A - 4620m
Cable drum 1A - 4620 m
Fixare mediana
Median fastening
km278+716
SE13

1		3		5		7		9		11		13	
H	437	H	482	H	527	H	576.5	H	621.5	H	671	H	716
–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–

E1		E1		E1		E1		E1		E1		E1	
5500	–	5500	–	5500	–	5500	–	5500	–	5500	–	5500	–
1400	–	1400	–	1400	–	1400	–	1400	–	1400	–	1400	–
6900	DD	6900	DI	6900	DD	6900	DI	6900	DD	6900	DI	6900	DD
−200	CO/	+200	CO/	−200	CO/	+200	CO/	−200	CO/	+200	CO/	−200	CO/

16	
H	761
–	–
An	–
–	–
E1	
5500	–
1400	–
6900	DD
−150	CO/

18	
H	810.5
–	–
–	–
–	–
E1	
5500	–
1400	–
6900	DI
+200	CO/

20	
H	855.5
–	–
An	–
–	–
E1	
5500	–
1400	–
6900	DI
+100	CO/

22	
H	896
–	–
–	–
–	–
E1	
5500	–
1400	–
6900	DI
+200	CO/

24	
H	945.5
–	–
–	–
–	–
E1	
5500	–
1400	–
6900	DI
+100	CO/

26	
H	995
–	–
–	–
–	–
E1	
5500	–
1400	–
6900	DI
+250	CO/

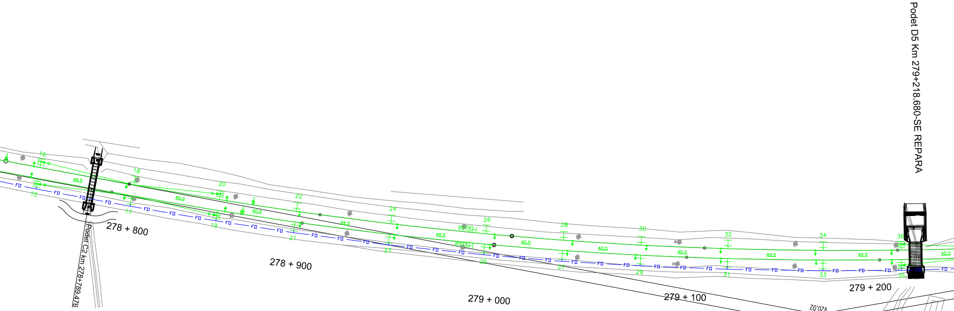
28	
H	035.5
–	–
–	–
–	–
E1	
5500	–
1400	–
6900	DI
+150	CO/

30	
H	076
–	–
–	–
–	–
E1	
5500	–
1400	–
6900	DI
+250	CO/

32	
H	121
–	–
–	–
–	–
E1	
5500	–
1400	–
6900	DI
+150	CO/

34	
H	170.5
–	–
–	–
–	–
E1	
5500	–
1400	–
6900	DI
+250	CO/

36	
H	211
–	–
An	–
–	–
E1	
5500	–
1400	–
6900	DI
+150	CO/


Podet D5 Km 279+218.680-SE REPARA
Podet C2 km 278+789.476
278 + 800
278 + 900
279 + 000
279 + 100
279 + 200
V20.02
V20.01
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
49.5
45.0
40.5
FD

15	
H	761
–	–
An	–
–	–
E1	
5500	–
1400	–
6900	DI
+150	CO/

17	
H	810.5
–	–
–	–
–	–
E1	
5500	–
1400	–
6900	DD
−200	CO/

19	
H	855.5
–	–
An	–
–	–
E1	
5500	–
1400	–
6900	DD
−100	CO/

21	
H	896
–	–
–	–
–	–
E1	
5500	–
1400	–
6900	DD
−200	CO/

23	
H	945.5
–	–
–	–
–	–
E1	
5500	–
1400	–
6900	DD
−100	CO/

25	
H	995
–	–
–	–
–	–
E1	
5500	–
1400	–
6900	DD
−250	CO/

27	
H	035.5
–	–
–	–
–	–
E1	
5500	–
1400	–
6900	DD
−150	CO/

29	
H	076
–	–
–	–
–	–
E1	
5500	–
1400	–
6900	DD
−250	CO/

31	
H	121
–	–
–	–
–	–
E1	
5500	–
1400	–
6900	DD
−150	CO/

33	
H	170.5
–	–
–	–
–	–
E1	
5500	–
1400	–
6900	DD
−250	CO/

35	
H	211
–	–
An	–
–	–
E1	
5500	–
1400	–
6900	DD
−150	CO/

38	
H	256
–	–
–	–
–	–

E1	
6000	–
1300	–
7300	A
+50	CO/

E2	
5500	–
1400	–
6900	DI
+250	CO/

40	
H	301
–	–
–	–
–	–

E1	
5500	–
1300	–
6800	ICM
−100	CO/

E2	
5500	–
2000	–
7500	ICM
+100	CO/

42	
H	346
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+250	CO/

E2	
6000	–
1300	–
7300	A
+450	CO/

44	
H	355.5
–	–
An	–
–	–

E1	
5500	–
1400	–
6900	DI
+100	CO/

46	
H	427
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+250	CO/

48	
H	467.5
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+50	CO/

50	
H	512.5
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

52	
H	553
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DD
−200	CO/

54	
H	593.5
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

56	
H	643
–	–
–	–
–	–

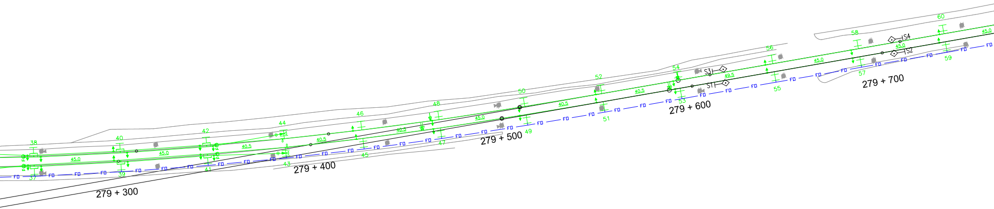
E1	
5500	–
1400	–
6900	DD
−200	CO/

58	
H	688
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

60	
H	733
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DD
−200	CO/


38
40
42
44
46
48
50
52
54
56
58
60
37
39
41
43
45
47
49
51
53
55
57
59
45.0
40.5
FO
S1
S2
S3
S4
279 + 300
279 + 400
279 + 500
279 + 600
279 + 700

37	
H	256
–	–
–	–
–	–

E1	
6000	–
1300	–
7300	A
−50	CO/

E2	
5500	–
1400	–
6900	DD
−250	CO/

39	
H	301
–	–
–	–
–	–

E1	
5500	–
2000	–
7500	DCM
+100	CO/

E2	
5500	–
1300	–
6800	DCM
−100	CO/

41	
H	346
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DD
−250	CO/

E2	
6000	–
1300	–
7300	A
−450	CO/

43	
H	355.5
–	–
An	–
–	–

E1	
5500	–
1400	–
6900	DD
−100	CO/

45	
H	427
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DD
−250	CO/

47	
H	467.5
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DD
−50	CO/

49	
H	512.5
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DD
−200	CO/

51	
H	553
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

53	
H	593.5
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DD
−200	CO/

55	
H	643
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

57	
H	688
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DD
−200	CO/

59	
H	733
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

62	
H	778
–	–
An	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

64	
H	827.5
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DD
−200	CO/

66	
H	872.5
–	–
An	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

68	
H	917.5
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DD
−200	CO/

70	
H	936
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

72	
H	012
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DD
−200	CO/

74	
H	057
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

76	
H	102
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DD
−200	CO/

78	
H	142.5
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

80	
H	187.5
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DD
−200	CO/

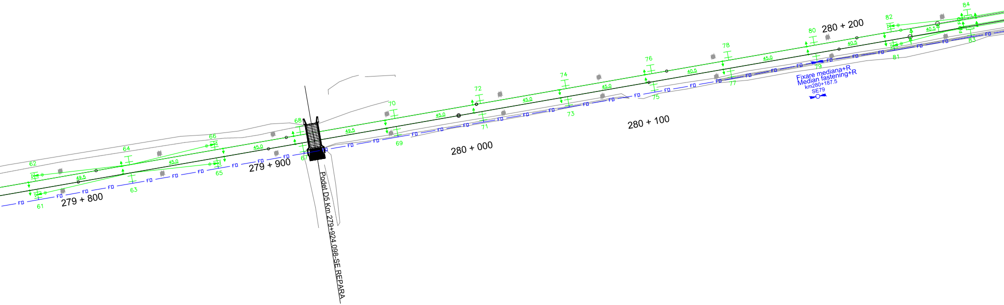
82	
H	228
–	–
An	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

84	
H	269
–	–
–	–
–	–

E1	
6000	–
1300	–
7300	A
−350	CO/

E2	
5500	–
1400	–
6900	DD
−150	CO/


279 + 800
279 + 900
280 + 000
280 + 100
280 + 200
Podet D5 Km 279+924.098-SE REPARA
Fixare mediana+R
Median fastening+R
km280+187.5
SE79
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
FD
49.5
45.0
40.5

61	
H	778
–	–
An	–
–	–

E1	
5500	–
1400	–
6900	DD
−200	CO/

63	
H	827.5
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

65	
H	872.5
–	–
An	–
–	–

E1	
5500	–
1400	–
6900	DD
−200	CO/

67	
H	917.5
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

69	
H	936
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DD
−200	CO/

71	
H	012
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

73	
H	057
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DD
−200	CO/

75	
H	102
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

77	
H	142.5
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DD
−200	CO/

79	
H	187.5
–	–
–	–
–	–

E1	
5500	–
1400	–
6900	DI
+200	CO/

81	
H	228
–	–
An	–
–	–

E1	
5500	–
1400	–
6900	DD
−200	CO/

83	
H	269
–	–
–	–
–	–

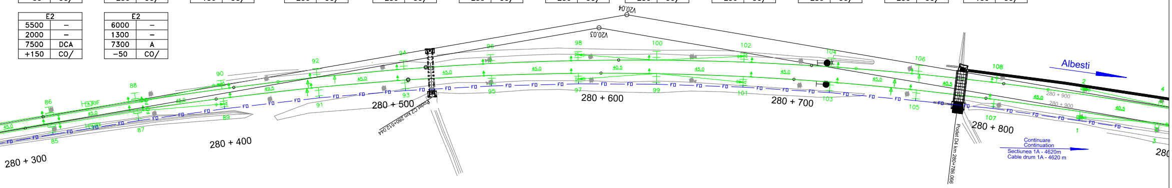
E1	
6000	–
1300	–
7300	A
+350	CO/

E2	
5500	–
1400	–
6900	DI
+150	CO/

86		88		90		92		94		96		98		100		102		104		106		108	
H	314	H	359	H	404	H	453.5	H	498.5	H	543.5	H	588.5	H	629	H	674	H	719	H	764	H	804.5
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	An	–	–	–	–	–	–	–	An	–	–	–	An	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

E1		E1		E1		E1		E1		E1		E1		E1		E1		E1		E1		E1	
5500	–	5500	–	5500	–	5500	–	5500	–	5500	–	5500	–	5500	–	5500	–	5500	–	5500	–	5500	–
1300	–	1400	–	1400	–	1400	–	1400	–	1400	–	1400	–	1400	–	1400	–	1400	–	1400	–	1400	–
6800	DCA	6900	DD	6900	DD	6900	DD	6900	DD	6900	DD	6900	DD	6900	DD	6900	DD	6900	DD	6900	DD	6900	DD
−50	CO/	−250	CO/	−150	CO/	−250	CO/	−250	CO/	−250	CO/	−250	CO/	−250	CO/	−250	CO/	−250	CO/	−250	CO/	−150	CO/

E2		E2	
5500	–	6000	–
2000	–	1300	–
7500	DCA	7300	A
+150	CO/	−50	CO/


V20.04
V20.03
280 + 300
280 + 400
280 + 500
280 + 600
280 + 700
280 + 800
280 + 900
280 + 900
280
Podet C2 km 280+512.044
Podet D4 km 280+786.066
Albesti
Continuare
Continuation
Sectiunea 1A - 4620m
Cable drum 1A - 4620 m
85
86
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102
103
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107
108
1
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4
45.0
49.5
40.5
FD

85		87		89		91		93		95		97		99		101		103		105		107	
H	314	H	359	H	404	H	453.5	H	498.5	H	543.5	H	588.5	H	629	H	674	H	719	H	764	H	804.5
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	An	–	–	–	–	–	–	–	An	–	–	–	An	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

E1		E1		E1		E1		E1		E1		E1		E1		E1		E1		E1		E1	
5500	–	5500	–	5500	–	5500	–	5500	–	5500	–	5500	–	5500	–	5500	–	5500	–	5500	–	5500	–
2000	–	1400	–	1400	–	1400	–	1400	–	1400	–	1400	–	1400	–	1400	–	1400	–	1400	–	1400	–
7500	ICA	6900	DI	6900	DI	6900	DI	6900	DI	6900	DI	6900	DI	6900	DI	6900	DI	6900	DI	6900	DI	6900	DI
+50	CO/	+250	CO/	+150	CO/	+250	CO/	+250	CO/	+250	CO/	+250	CO/	+250	CO/	+250	CO/	+250	CO/	+250	CO/	+150	CO/

E2		E2	
5500	–	6000	–
1300	–	1300	–
6800	ICA	7300	A
−150	CO/	+50	CO/

LEGENDA
LEGEND

CTM	◇	Camereta cu mufa de jonctiune Handhole with jonction box
CTM	◇	Camereta cu rezerva Handhole with cable reserve
CT	▢	Camera de tragere cu mufa de jonctiune Manhole with jonction box
CT	▢	Camera de tragere cu rezerva Manhole with cable reserve
CTS	☐	Camera de tragere speciala pentru subtraversare Special manhole for undercrossing
	►○◄	Fixare mediana Median fastening
	►○◇	Fixare terminala Terminal fastening
	— FO —	Cablu cu fibre optice aerian Aerial optical fiber cable
	— FO —	Cablu cu fibre optice subteran Underground optical fiber cable
	—▭FO▭—	Teava PVC Φ 110 mm / canal metalic PVC pipe Φ 110 mm / metallic chanel

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

CFR

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 Secțiune 1 Section 1 Coordinator	C. Gambelli		
Verificat Checked	Verificator Verifier	Pino Amodio		

SUBCONTRACTANT / SUBCONTRACTOR AREX COMPANY

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A.Stanciu - Dinulescu	01.2012	
Întocmit Elaborated	Proiectant Designer	Gabriela Trifan	01.2012	

Reabilitarea liniei de cale ferata Braşov - Simeria, parte componentă a coridorului IV Pan European, pentru circulația 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 - ALBESTI-SIGHISOARA - Section
CABLU CU FIBRE OPTICE (Cablul 1)
Plan de situatie
FIBER OPTIC CABLE (cable 1)
Layout Plan

Codificare / Codification System	Scara / Scale	LOT / LOT	Nr. / No 01/ 01

E A 5 1 | 0 1 | E | 2 0 | L 7 | S E | 0 7 | 7 | 7 | 0 0 1 | 1