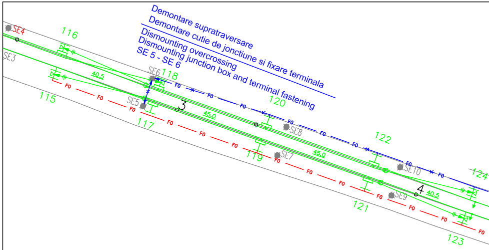
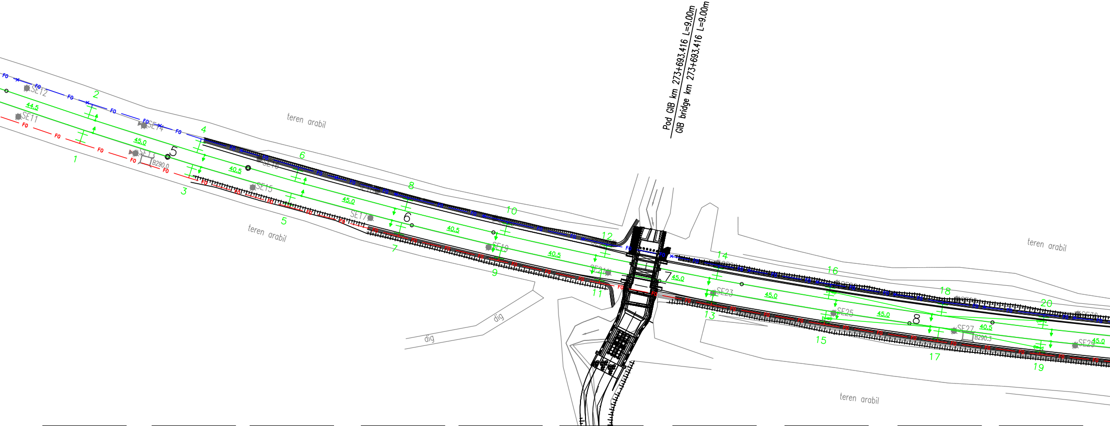

Demontare supratraversare
Demontare cutie de jonctiune si fixare terminala
Dismounting overcrossing
Dismounting junction box and terminal fastening
SE 5 - SE 6
SE4
SE3
116
115
40.5
SE6
118
SE5
3
117
45.0
120
SE8
119
SE7
45.0
122
SE10
121
SE9
4
40.5
124
123
F0


Pod GIB km 273+693,416 L=9,00m
GIB bridge km 273+693,416 L=9,00m
teren arabil
teren arabil
teren arabil
teren arabil
dig
dig
SE11
SE12
SE13
SE14
SE15
SE16
SE17
SE19
SE21
SE23
SE25
SE27
SE29
B290.0
B290.3
FO
44.5
45.0
40.5
45.0
40.5
40.5
45.0
45.0
45.0
40.5
45.0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
5
6
7
8

| 1 | |
|---|---|
| H | 465 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +50 | CO/- |

| 3 | |
|---|---|
| H | 510 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -250 | CO/- |

| 5 | |
|---|---|
| H | 550.5 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +50 | CO/- |

| 7 | |
|---|---|
| H | 595.5 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -250 | CO/- |

| 9 | |
|---|---|
| H | 636 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -100 | CO/- |

| 11 | |
|---|---|
| H | 676.5 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -250 | CO/- |

| 13 | |
|---|---|
| H | 722 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -100 | CO/- |

| 15 | |
|---|---|
| H | 767 |
| - | - |
| An | - |
| - | - |

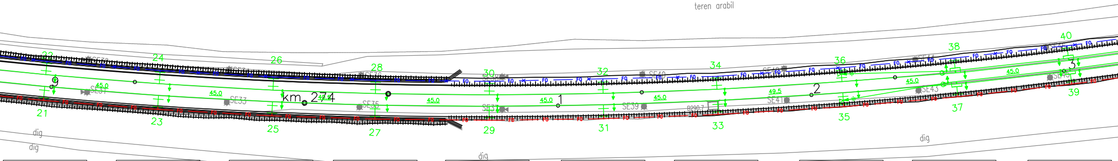
| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -250 | CO/- |

| 17 | |
|---|---|
| H | 812 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -100 | CO/- |

| 19 | |
|---|---|
| H | 852.5 |
| - | - |
| An | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -250 | CO/- |


teren arabil
km 274
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
9
1
2
3
SE31
SE33
SE35
SE37
SE39
SE40
SE41
SE43
45.0
49.5
B290.7
dig

| 21 | |
|---|---|
| H | 897.5 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -100 | CO/- |

| 23 | |
|---|---|
| H | 942.5 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -250 | CO/- |

| 25 | |
|---|---|
| H | 987.5 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -100 | CO/- |

| 27 | |
|---|---|
| H | 028 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -250 | CO/- |

| 29 | |
|---|---|
| H | 073 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -100 | CO/- |

| 31 | |
|---|---|
| H | 118 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -250 | CO/- |

| 33 | |
|---|---|
| H | 163 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -100 | CO/- |

| 35 | |
|---|---|
| H | 212.5 |
| - | - |
| An | - |
| - | - |

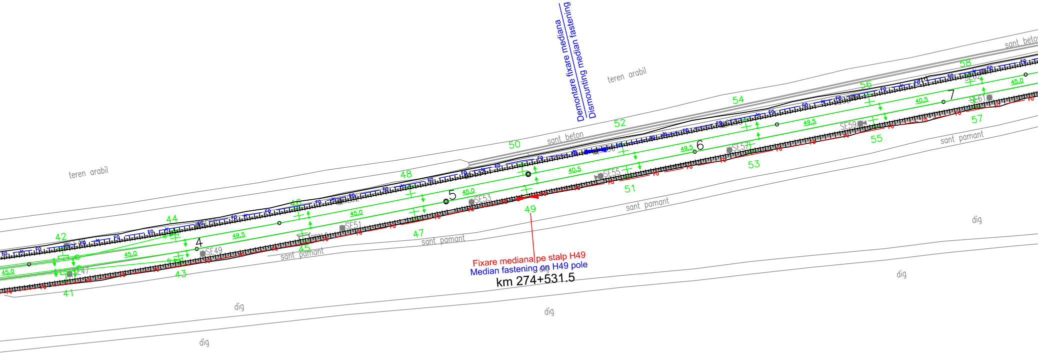
| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -250 | CO/- |

| 37 | |
|---|---|
| H | 257.5 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 6000 | - |
| 1300 | - |
| 7300 | A |
| +100 | CO/- |

| 39 | |
|---|---|
| H | 302.5 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 2000 | - |
| 7500 | DCA |
| -50 | CO/- |


Demontare fixare mediana
Dismounting median fastening
teren arabil
teren arabil
sant beton
sant beton
sant pamant
sant pamant
sant pamant
sant pamant
dig
dig
dig
dig
dig
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
4
5
6
7
SE47
SE49
SE51
SE53
SE55
SE57
SE59
SE61
45.0
49.5
40.5
F0
Fixare mediana pe stalp H49
Median fastening on H49 pole
km 274+531.5

| 41 | |
|---|---|
| H | 347.5 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -100 | CO/- |

| 43 | |
|---|---|
| H | 392.5 |
| - | - |
| An | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -250 | CO/- |

| 45 | |
|---|---|
| H | 441.5 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +50 | CO/- |

| 47 | |
|---|---|
| H | 486.5 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -200 | CO/- |

| 49 | |
|---|---|
| H | 531.5 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +200 | CO/- |

| 51 | |
|---|---|
| H | 572 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -200 | CO/- |

| 53 | |
|---|---|
| H | 621.5 |
| - | - |
| - | - |
| - | - |

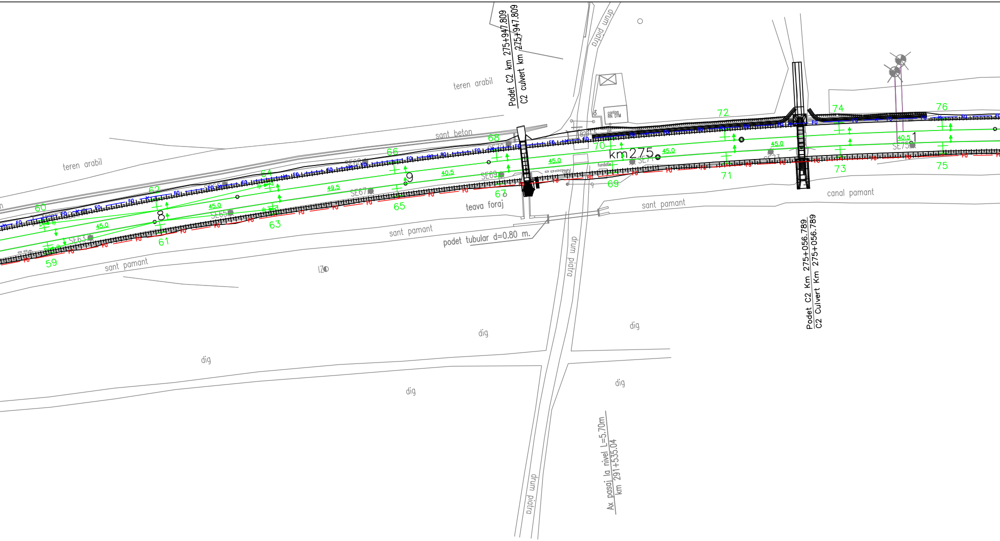
| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +200 | CO/- |

| 55 | |
|---|---|
| H | 671 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -200 | CO/- |

| 57 | |
|---|---|
| H | 711.5 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +200 | CO/- |


Podet C2 km 275+947.809
C2 culvert km 275+947.809
drum piatra
teren arabil
teren arabil
sant beton
canton RN DTM
fundatie
km 275
60
62
64
66
68
70
72
74
76
59
61
63
65
67
69
71
73
75
8
9
1
45.0
40.5
49.5
SE63
SE65
SE67
SE69
SE71
SE73
SE75
F0
teava foraj
sant pamant
sant pamant
sant pamant
podet tubular d=0.80 m.
IZ
canal pamant
dig
dig
dig
dig
dig
drum piatra
drum piatra
Podet C2 Km 275+056.789
C2 Culvert Km 275+056.789
Ax pasaj la nivel L=5.70m
km 291+535.04
proprietate particulara

| 59 | |
|---|---|
| H | 756.5 |
| - | - |
| An | - |
| - | - |

| 61 | |
|---|---|
| H | 801.5 |
| - | - |
| - | - |
| - | - |

| 63 | |
|---|---|
| H | 846.5 |
| - | - |
| An | - |
| - | - |

| 65 | |
|---|---|
| H | 896 |
| - | - |
| - | - |
| - | - |

| 67 | |
|---|---|
| H | 936.5 |
| - | - |
| - | - |
| - | - |

| 69 | |
|---|---|
| H | 981.5 |
| - | - |
| - | - |
| - | - |

| 71 | |
|---|---|
| H | 026.5 |
| - | - |
| - | - |
| - | - |

| 73 | |
|---|---|
| H | 071.5 |
| - | - |
| - | - |
| - | - |

| 75 | |
|---|---|
| H | 112 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -100 | CO/- |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +250 | CO/- |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +50 | CO/- |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +250 | CO/- |

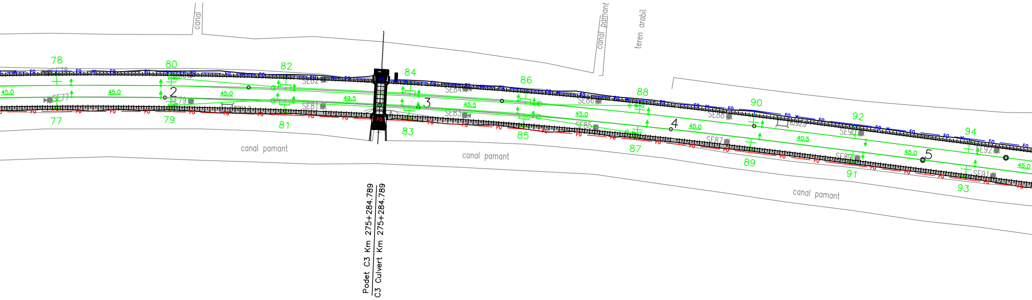
| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +50 | CO/- |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +250 | CO/- |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +50 | CO/- |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +250 | CO/- |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +50 | CO/- |


canal
canal pamant
teren arabil
78
80
82
84
86
88
90
92
94
77
79
81
83
85
87
89
91
93
2
3
4
5
45.0
49.5
45.5
40.5
SE77
SE79
SE81
SE82
SE83
SE84
SE85
SE86
SE87
SE88
SE89
SE90
SE91
SE92
F0
canal pamant
canal pamant
canal pamant
Podet C3 Km 275+284.789
C3 Culvert Km 275+284.789

| 77 | |
|---|---|
| H | 157 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +250 | CO/- |

| 79 | |
|---|---|
| H | 202 |
| - | - |
| An | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| -50 | CO/- |

| 81 | |
|---|---|
| H | 247 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 6000 | - |
| 1300 | - |
| 7300 | A |
| +450 | CO/- |

| 83 | |
|---|---|
| H | 296.5 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 2000 | - |
| 7500 | ICA |
| +250 | CO/- |

| 85 | |
|---|---|
| H | 341.5 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +50 | CO/- |

| 87 | |
|---|---|
| H | 386.5 |
| - | - |
| An | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +200 | CO/- |

| 89 | |
|---|---|
| H | 431.5 |
| - | - |
| - | - |
| - | - |

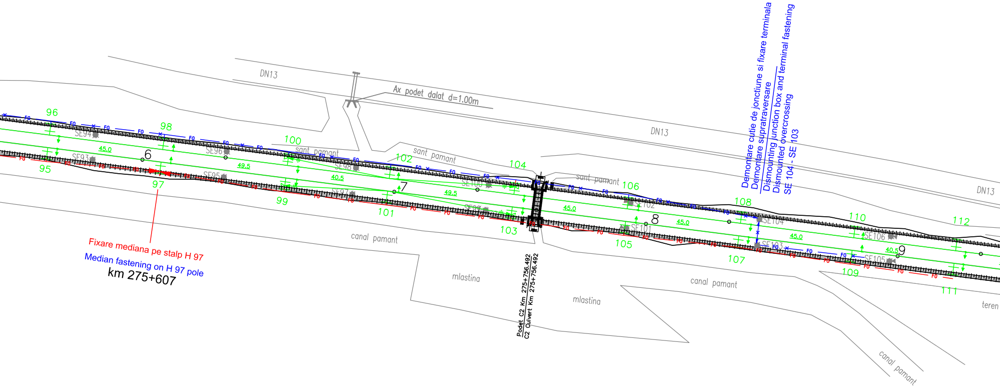
| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +100 | CO/- |

| 91 | |
|---|---|
| H | 472 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -150 | CO/- |

| 93 | |
|---|---|
| H | 517 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +200 | CO/- |


DN13
Ax podet dalat d=1.00m
DN13
DN13
Demontare cutie de jonctiune si fixare terminala
Demontare supratraversare
Dismounting junction box and terminal fastening
Dismounted overcrossing
SE 104 - SE 103
96
98
100
102
104
106
108
110
112
95
97
99
101
103
105
107
109
111
6
7
8
9
SE94
SE93
SE96
SE95
SE98
SE97
SE100
SE99
SE102
SE101
SE104
SE103
SE106
SE105
45.0
49.5
40.5
49.5
45.0
45.0
45.0
40.5
sant pamant
sant pamant
sant pamant
canal pamant
canal pamant
canal pamant
mlastina
mlastina
teren
F0
Fixare mediana pe stalp H 97
Median fastening on H 97 pole
km 275+607
Podet C2 Km 275+756.492
C2 Culvert Km 275+756.492

| 95 | |
|---|---|
| H | 562 |
| - | - |
| - | - |
| - | - |

| 97 | |
|---|---|
| H | 607 |
| - | - |
| - | - |
| - | - |

| 99 | |
|---|---|
| H | 656.5 |
| - | - |
| An | - |
| - | - |

| 101 | |
|---|---|
| H | 697 |
| - | - |
| - | - |
| - | - |

| 103 | |
|---|---|
| H | 746.5 |
| - | - |
| An | - |
| - | - |

| 105 | |
|---|---|
| H | 791.5 |
| - | - |
| - | - |
| - | - |

| 107 | |
|---|---|
| H | 836.5 |
| - | - |
| - | - |
| - | - |

| 109 | |
|---|---|
| H | 881.5 |
| - | - |
| - | - |
| - | - |

| 111 | |
|---|---|
| H | 922 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -200 | CO/- |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +200 | CO/- |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -200 | CO/- |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +200 | CO/- |

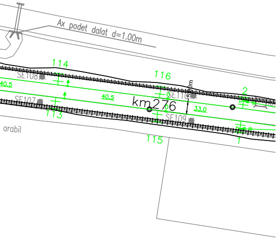
| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -200 | CO/- |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +200 | CO/- |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -200 | CO/- |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +200 | CO/- |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DD |
| -200 | CO/- |


Ax podet dalat d=1.00m
114
116
SE108
SE110
SE107
SF109
40.5
40.5
km276
5.00m
33.0
2
113
115
1
arabil

| 113 | |
|---|---|
| H | 962.5 |
| - | - |
| - | - |
| - | - |

| 115 | |
|---|---|
| H | 003 |
| - | - |
| - | - |
| - | - |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | DI |
| +200 | CO/- |

| E1 | |
|---|---|
| 5500 | - |
| 1400 | - |
| 6900 | ID |
| 0 | CO/- |

## LEGENDA / LEGEND

| | |
|---|---|
| ╪ | -STALP H / H POLE |
| ⊗ | -STALP Be DEMONTAT / CONCRETE POLE DESMONTED |
| ● | STALP Be EXISTENT CARE SE PASTREAZA/EXISTING CONVRETE POLE WHICH PRESERVED |
| — FO — | CABLU CU FIBRE OPTICE AERIAN PROIECTAT /DESIGNED AERIAL OPTICAL FIBRE CABLE |
| ⨯ FO ⨯ | CABLU CU FIBRE OPTICE AERIAN DEMONTAT /EXISTENT AERIAL OPTICAL FIBRE CABLE DISMOUNTED |

## DESCRIEREA LUCRĂRILOR

Lucrările de mutarea şi protejare a cablului cu fibre optice existent se vor realiza în 2 faze.

***Faza 2*** - se execută după plantarea noilor stâlpi metalici ai linie de tracţiune

Pentru a se respecta cerinţa Beneficiarului ca instalarea cablului să se facă pe aceaşi parte a căii ferate pe întregul interval şi să fie pe partea opusă cablului Fo pentru semnalizare, este necesară instalarea unui nou cable aerian între clădirile staţiilor Vânători şi Albeşti, pe partea dreaptă a liniilor ferate.

La capete introducerile în clădiri se vor face prin canalizaţiile telefonice, iar pe parcurs cablul se va instala pe stâlpii metalici ai liniei de contact.

Cablul proiectat va avea fixări mediane pe stâlpii H49 şi H97.

După preluarea comunicaţiilor pe noul cablu, cablul cu fibre optice instalat în faza 1 se va demonta.

## DESCRIPTION OF WORKS

The relocation and protection works of the existing fiber optic cable will be performed in 2 phases.

***2nd Phase*** - will be performed after the planting the new metallic poles of the traction line

In order to observe the Beneficiar's requirement that the installation of the cable to be done on the same side of rail tracks on the whole section and the cable to be on the opposite side of the OF cable for signalling, it is necessary to install a new aerial cable between the Vânători and Albeşti station buildings, on the right side of the railway route.

At the ends the introduction of cables in buildings will be made through the telephone conduits and along the line the cable will be installed on the metallic poles of the contact line.

The designed cable will have median fastenings on the H49 and H97 poles.

După preluarea comunicaţiilor pe noul cablu, cablul cu fibre optice instalat în faza 1 se va demonta.

After the taking over of communications on the new cable, the existing fiber optic cable installed in the 1st phase will be dismounted.

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| B | | | | |
| A | | | | |
| Indice<br>Index | Data<br>Date | Modificare<br>Modification/Revision | Proiectant<br>Designer | Aprobat Consultant<br>Approved Consultan |

GUVERNUL ROMANIEI
**ROMANIAN GOVERNMENT**

PROIECT FINANŢAT DE UNIUNEA
**EUROPEAN UNION FINANC**

CLIENT / CLIENT

C.N.C.F. "C.F

ITALFERR
GRUPPO FERROVIE DELLO STATO
*Joint Venture leader*

Scott Wilson

OBERMEYER
PLANEN + BERATEN GmbH

CONSULTANT / CONSULTANT

| | | | Data<br>Date |
|---|---|---|---|
| Aprobat<br>Approved | Şef proiect<br>Project manager | R. Liuzza | |
| Aprobat<br>Approved | Coordonator Secţiune 1<br>Section 1 Coordinator | C. Gambelli | |
| Verificat<br>Checked | Expert Verificator<br>Checking Expert | Pino Amodio | |

**SUBCONTRACTANT / SUBCONTRACTOR** AREX Lider COMPANY

| | | | |
|---|---|---|---|
| Aprobat<br>Approved | Responsabil Subcontractant<br>Subcontractor Responsible | A.Stanciu - Dinulescu | 01.20 |
| Întocmit<br>Elaborated | Proiectant<br>Designer | Archip Stefania | 01.20 |

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 Brasov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h,
**Section : Braşov - Sighişoara**

Denumire desen / Drawing Title :

**Mutarea si protejarea cablului FO existent - Faza**
**Vanatori-Albesti; Vanatori-Albesti section**
**Relocation and protection of existing OF cable - 2nd**

Codificare / Codification System

Scara / Scale
1:1000

LOT

E A 5 1 | 0 1 | C | 1 8 | L 7 | T C | 1 0 | 1 | 1

Aprobat CFR
Approved CFR

EURO
CED PR

.R." - S.A.

**TECNIC**
Consulting Engineers

Semnătură
Signature

l2

l2

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

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

**2**

**Phase**

/ LOT

Nr. / No
02 / 02

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