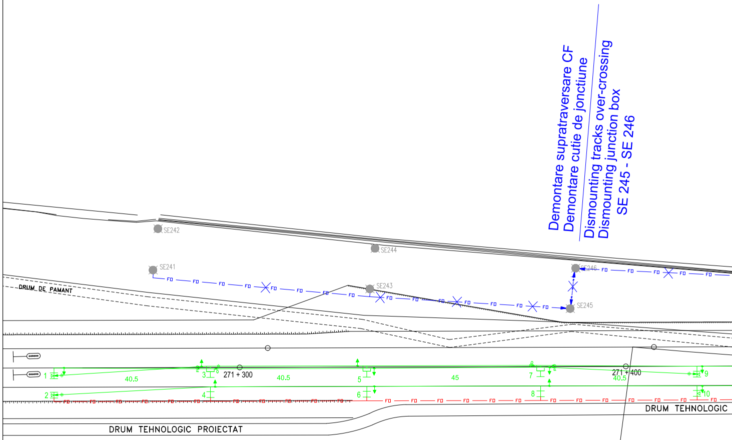

Demontare supratraversare CF
Demontare cutie de jonctiune
Dismounting tracks over-crossing
Dismounting junction box
SE 245 - SE 246
SE242
SE244
SE241
SE243
SE246
SE245
DRUM DE PAMANT
FO
1
2
3
4
5
6
7
8
9
10
40.5
40.5
45
40.5
271 + 300
271 + 400
DRUM TEHNOLOGIC
DRUM TEHNOLOGIC PROIECTAT

2	
H	252
–	–
An	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

4	
H	292.5
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

6	
H	333
–	–
–	–
–	–

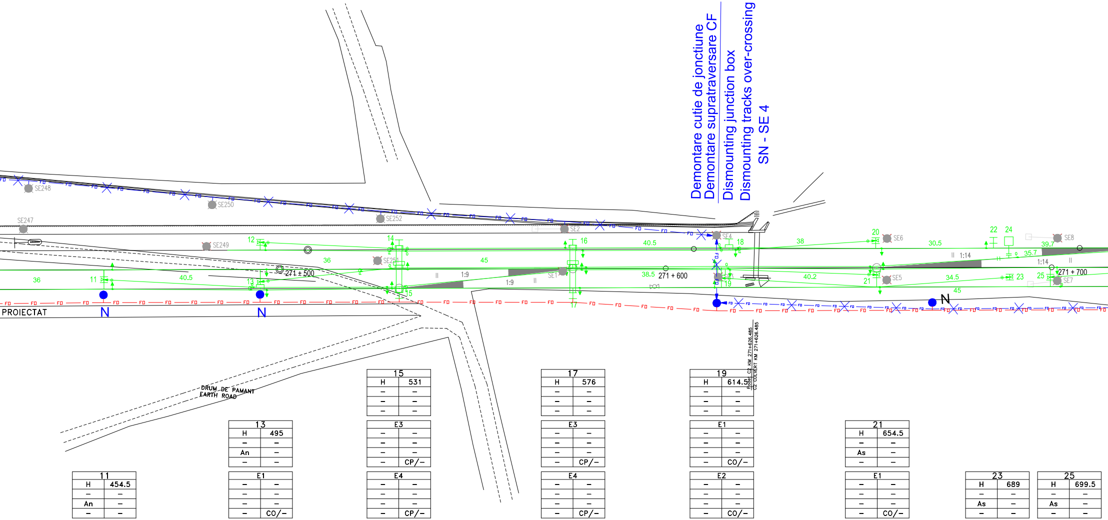
E1	
–	–
–	–
–	–
–	CO/–

8	
H	378
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

10	
H	418.5
–	–
An	–
–	–

E1	
–	–
–	–
–	–
–	CO/–


Demontare cutie de jonctiune
Demontare supratraversare CF
Dismounting junction box
Dismounting tracks over-crossing
SN - SE 4
SE248
SE250
SE252
SE247
SE249
SE251
SE2
SE1
SE4
SE3
SE6
SE5
SE8
SE7
FD
12
14
16
18
20
22
24
11
13
15
17
19
21
23
25
36
40.5
45
38
30.5
39.7
35.7
38.5
40.2
34.5
271 ± 500
271 + 600
271 + 700
1:9
1:14
N
PROIECTAT
DRUM DE PAMANT
EARTH ROAD
Rodet C2 KM 271+626.485
C2 CULVERT KM 271+626.485

11	
H	454.5
–	–
An	–
–	–

E1	
–	–
–	–
–	–
–	CPS/–

E2	
–	–
–	–
–	–
–	CPS/–

13	
H	495
–	–
An	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

E2	
–	–
–	–
–	–
–	CO/–

E3	
–	–
–	–
–	–
–	CO/–

15	
H	531
–	–
–	–
–	–

E3	
–	–
–	–
–	–
–	CP/–

E4	
–	–
–	–
–	–
–	CP/–

E5	
–	–
–	–
–	–
–	CO/–

E6	
–	–
–	–
–	–
–	CO/–

17	
H	576
–	–
–	–
–	–

E3	
–	–
–	–
–	–
–	CP/–

E4	
–	–
–	–
–	–
–	CP/–

E5	
–	–
–	–
–	–
–	CP/–

E6	
–	–
–	–
–	–
–	CO/–

19	
H	614.5
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

E2	
–	–
–	–
–	–
–	CO/–

E3	
–	–
–	–
–	–
–	CO/–

E4	
–	–
–	–
–	–
–	CO/–

21	
H	654.5
–	–
As	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

E2	
–	–
–	–
–	–
–	CO/–

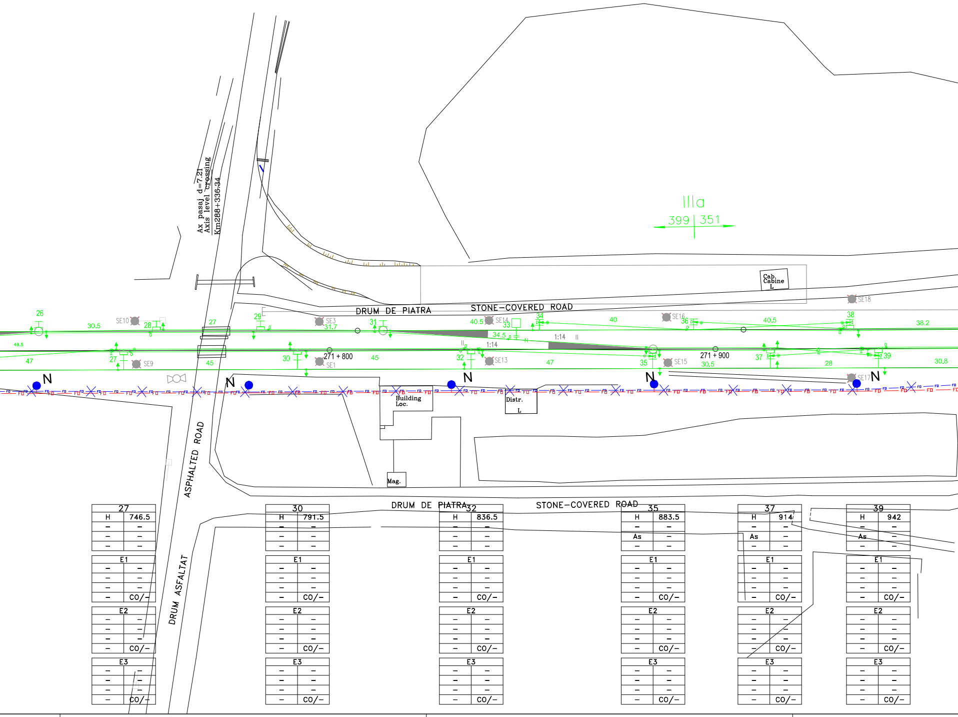
E3	
–	–
–	–
–	–
–	CO/–

23	
H	689
–	–
As	–
–	–

25	
H	699.5
–	–
As	–
–	–

E1	
–	–
–	–
–	–
–	CPS/–

E2	
–	–
–	–
–	–
–	CPS/–

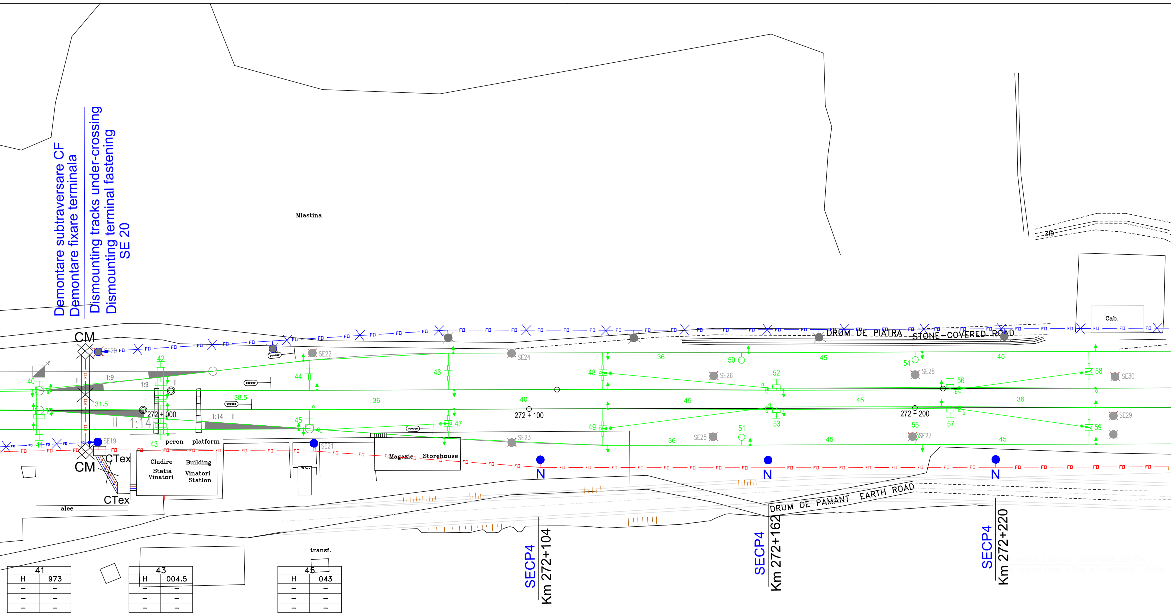

Ax pasaj d=7.21
Axis level crossing
Km288+336.34
IIIa
399 | 351
Cab.
Cabine
L
DRUM DE PIATRA
STONE-COVERED ROAD
SE18
26
SE10
28
30.5
27
29
SE3
31.7
31
40.5
SE14
33
34
34.5
1:14
1:14
40
SE16
36
40.5
38
38.2
49.5
47
27
SE9
45
30
271 + 800
SE1
45
32
SE13
47
35
SE15
30.5
271 + 900
37
28
39
30.8
SE17
N
N
N
N
N
FD
Building
Loc.
Distr.
L
Mag.
ASPHALTED ROAD
DRUM ASFALTAT
DRUM DE PIATRA
STONE-COVERED ROAD

27		30		32		35		37		39	
H	746.5	H	791.5	H	836.5	H	883.5	H	914	H	942
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	As	–	As	–	As	–
–	–	–	–	–	–	–	–	–	–	–	–

E1		E1		E1		E1		E1		E1	
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	CO/–	–	CO/–	–	CO/–	–	CO/–	–	CO/–	–	CO/–

E2		E2		E2		E2		E2		E2	
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	CO/–	–	CO/–	–	CO/–	–	CO/–	–	CO/–	–	CO/–

E3		E3		E3		E3		E3		E3	
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	CO/–	–	CO/–	–	CO/–	–	CO/–	–	CO/–	–	CO/–


Demontare subtraversare CF
Demontare fixare terminala
Dismounting tracks under-crossing
Dismounting terminal fastening
SE 20
Mlastina
ZID
Cab.
DRUM DE PIATRA
STONE-COVERED ROAD
CM
CM
CTex
CTex
SE19
SE20
SE21
SE22
SE23
SE24
SE25
SE26
SE27
SE28
SE29
SE30
FD
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
31.5
38.5
36
40
45
1:9
1:9
1:14
1:14
272 + 000
272 + 100
272 + 200
peron
platform
Cladire
Statia Vinatori
Building
Vinatori Station
wc.
Magazie
Storehouse
alee
transf.
N
N
N
DRUM DE PAMANT
EARTH ROAD
SECP4
Km 272+104
SECP4
Km 272+162
SECP4
Km 272+220

41	
H	973
–	–
–	–
–	–

E3	
–	–
–	–
–	–
–	CP/–

E4	
–	–
–	–
–	–
–	CP/–

E5	
–	–
–	–
–	–
–	CO/–

43	
H	004.5
–	–
–	–
–	–

E3	
–	–
–	–
–	–
–	CP/–

E4	
–	–
–	–
–	–
–	CP/–

E5	
–	–
–	–
–	–
–	CO/–

45	
H	043
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

E2	
–	–
–	–
–	–
–	CO/–

E3	
–	–
–	–
–	–
–	CO/–

47	
H	079
–	–
As	–
–	–

E1	
–	–
–	–
–	–
–	CPS/–

E2	
–	–
–	–
–	–
–	CPS/–

49	
H	119
–	–
As	–
–	–

E1	
–	–
–	–
–	–
–	CPS/–

E2	
–	–
–	–
–	–
–	CPS/–

51	
SECP6	155
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

53	
H	164
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

E2	
–	–
–	–
–	–
–	CO/–

55	
SECP6	200
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

57	
H	209
–	–
–	–
–	–

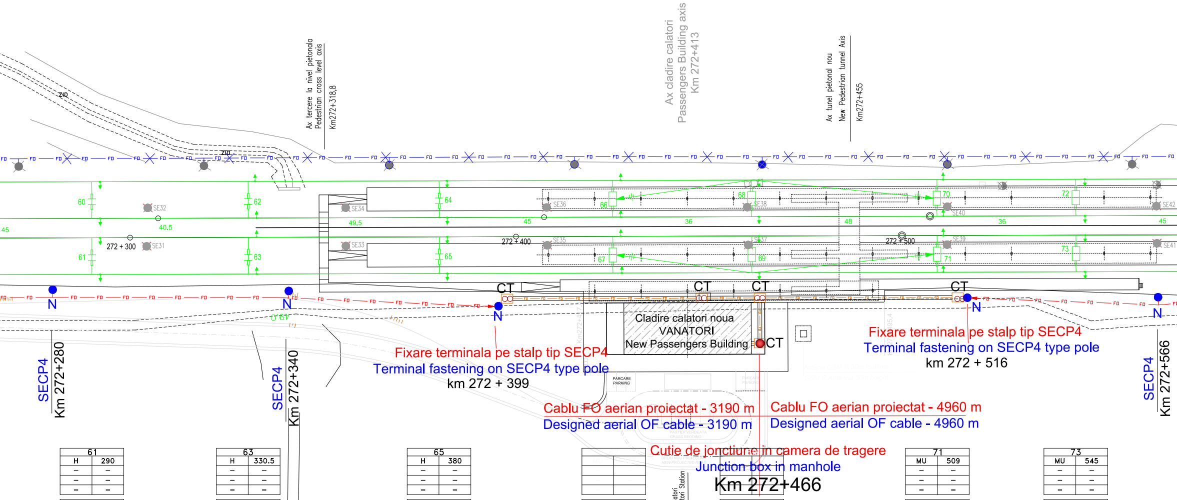
E1	
–	–
–	–
–	–
–	CO/–

E2	
–	–
–	–
–	–
–	CO/–

59	
H	245
–	–
As	–
–	–

E1	
–	–
–	–
–	–
–	CPS/–

E2	
–	–
–	–
–	–
–	CPS/–


Ax tercere la nivel pietonala
Pedestrian cross level axis
Km272+318,8
Ax cladire calatori
Passengers Building axis
Km 272+413
Ax tunel pietonal nou
New Pedestrian tunnel Axis
Km272+455
ZID
FO
SE31
SE32
SE33
SE34
SE35
SE36
SE37
SE38
SE39
SE40
SE41
SE42
60
61
62
63
64
65
66
67
68
69
70
71
72
73
45
40,5
49,5
45
36
48
36
45
272 + 300
272 + 400
272 + 500
CT
N
SECP4
Km 272+280
SECP4
Km 272+340
SECP4
Km 272+566
Cladire calatori noua
VANATORI
New Passengers Building
PARCARE
PARKING
Fixare terminala pe stalp tip SECP4
Terminal fastening on SECP4 type pole
km 272 + 399
Fixare terminala pe stalp tip SECP4
Terminal fastening on SECP4 type pole
km 272 + 516
Cablu FO aerian proiectat - 3190 m
Designed aerial OF cable - 3190 m
Cablu FO aerian proiectat - 4960 m
Designed aerial OF cable - 4960 m
Cutie de jonctiune in camera de tragere
Junction box in manhole
Km 272+466
Ax cladire calatori noua Statia Vanatori
New Passengers Building Axis Vanatori Station
Km272+444.40
Ax tunel pietonal nou
New Pedestrian tunnel Axis
Km272+486.4
Capat copertina linia 1
Canopy limit track 1
Km272+493.9
Capat peron linia 1
Platform limit track 1
Km272+561.4

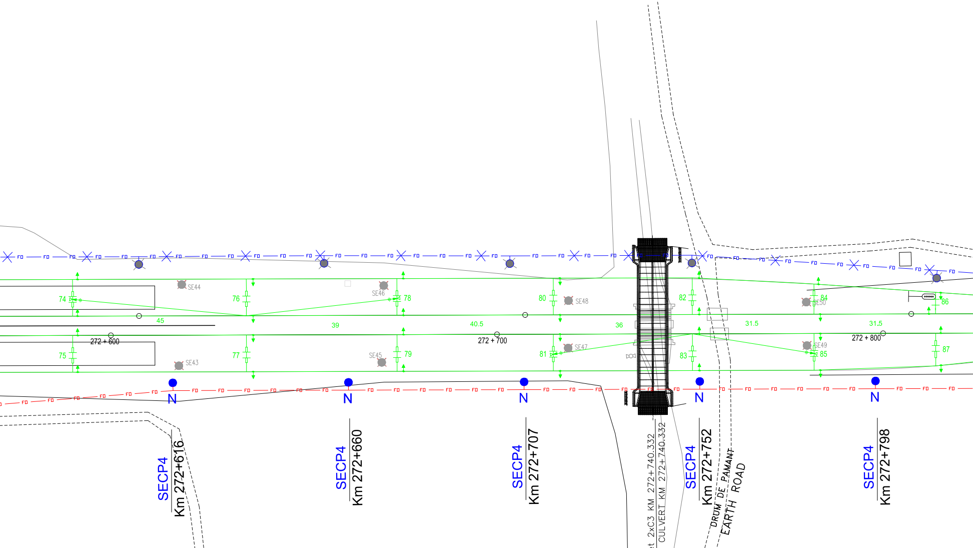
61	
H	290
–	–
–	–
–	–
E1	
–	–
–	–
–	–
–	CPS/–
E2	
–	–
–	–
–	–
–	CPS/–

63	
H	330.5
–	–
–	–
–	–
E1	
–	–
–	–
–	–
–	CPS/–
E2	
–	–
–	–
–	–
–	CPS/–

65	
H	380
–	–
–	–
–	–
E1	
–	–
–	–
–	–
–	CPS/–
E2	
–	–
–	–
–	–
–	CPS/–

71	
MU	509
–	–
–	–
–	–
E1	
–	–
–	–
–	–
–	CS/–
E2	
–	–
–	–
–	–
–	CS/–

73	
MU	545
–	–
–	–
–	–
E1	
–	–
–	–
–	–
–	CS/–
E2	
–	–
–	–
–	–
–	CS/–


FO
SE44
SE46
SE48
SE50
SE43
SE45
SE47
SE49
74
75
76
77
78
79
80
81
82
83
84
85
86
87
45
39
40.5
36
31.5
31.5
272 + 600
272 + 700
272 + 800
N
N
N
N
N
SECP4
Km 272+616
SECP4
Km 272+660
SECP4
Km 272+707
Podet 2xC3 KM 272+740.332
2xC3 CULVERT KM 272+740.332
SECP4
Km 272+752
DRUM DE PAMANT
EARTH ROAD
SECP4
Km 272+798
DRUM DE PAMANT

75	
H	590
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CPS/–

E2	
–	–
–	–
–	–
–	CPS/–

77	
H	635
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CPS/–

E2	
–	–
–	–
–	–
–	CPS/–

79	
H	674
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CPS/–

E2	
–	–
–	–
–	–
–	CPS/–

81	
H	714.5
–	–
As	–
–	–

E1	
–	–
–	–
–	–
–	CPS/–

E2	
–	–
–	–
–	–
–	CPS/–

83	
H	750.5
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CPS/–

E2	
–	–
–	–
–	–
–	CPS/–

85	
H	782
–	–
As	–
–	–

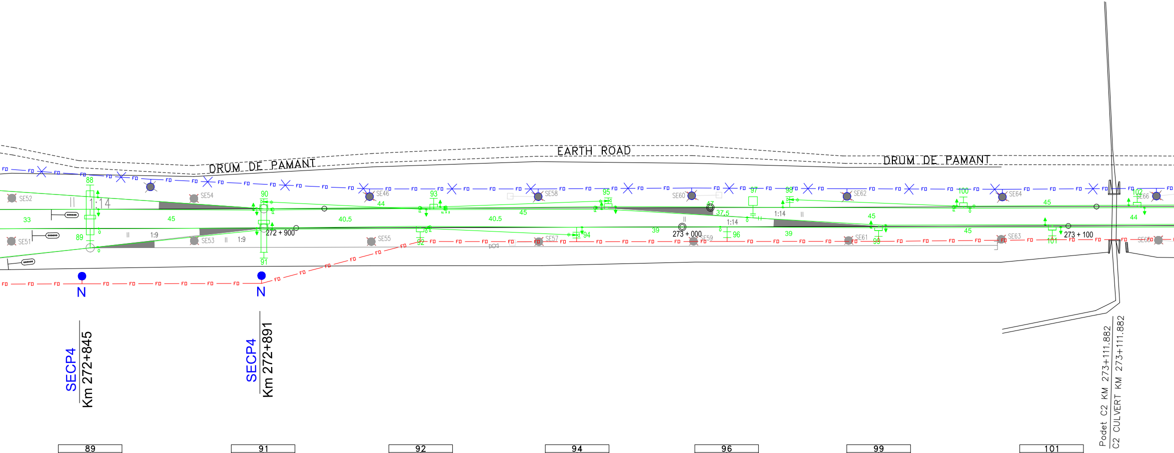
E1	
–	–
–	–
–	–
–	CPS/–

E2	
–	–
–	–
–	–
–	CPS/–

87	
H	813.5
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CPS/–

E2	
–	–
–	–
–	–
–	CPS/–


DRUM DE PAMANT
EARTH ROAD
DRUM DE PAMANT
FD
SE52
SE54
SE46
SE58
SE60
SE62
SE64
SE66
SE51
SE53
SE55
SE57
SE59
SE61
SE63
88
90
93
95
97
98
100
102
89
91
92
94
96
99
101
1:14
1:9
1:9
1:14
1:14
33
45
40.5
40.5
45
44
37.5
47
39
39
45
45
45
44
272 + 900
273 + 000
273 + 100
N
N
SECP4
Km 272+845
SECP4
Km 272+891
Podet C2 KM 273+111.882
C2 CULVERT KM 273+111.882

89	
H	846.5
–	–
–	–
–	–

E3	
–	–
–	–
–	–
–	CO/–

E4	
–	–
–	–
–	–
–	CO/–

91	
H	891.5
–	–
–	–
–	–

E3	
–	–
–	–
–	–
–	CP/–

E4	
–	–
–	–
–	–
–	CP/–

92	
H	932
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

E2	
–	–
–	–
–	–
–	CO/–

94	
H	972.5
–	–
As	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

96	
H	011.5
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

99	
H	050.5
–	–
–	–
–	–

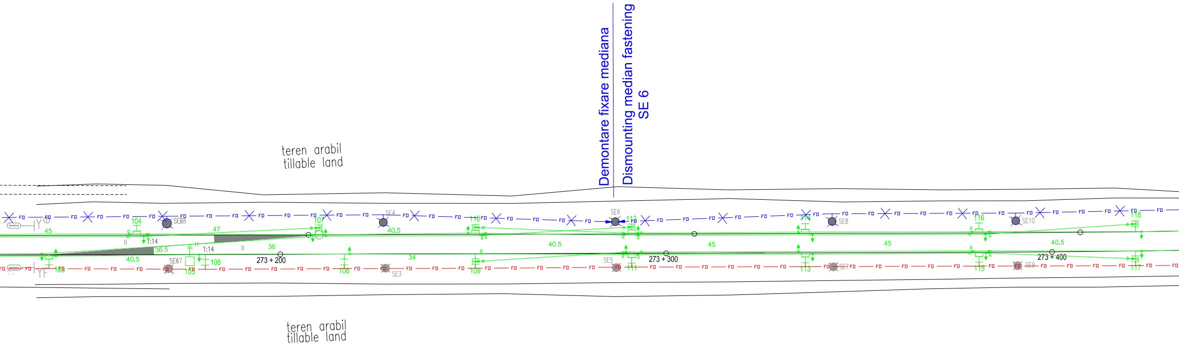
E1	
–	–
–	–
–	–
–	CO/–

E2	
–	–
–	–
–	–
–	CO/–

101	
H	095.5
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

E2	
–	–
–	–
–	–
–	CO/–


Demontare fixare mediana
Dismounting median fastening
SE 6
teren arabil
tillable land
teren arabil
tillable land
273 + 200
273 + 300
273 + 400
104
107
110
112
116
118
103
105
106
108
109
111
113
115
117
SE3
SE4
SE5
SE6
SE7
SE8
SE9
SE10
45
47
36.5
40.5
36
34
40.5
40.5
45
45
40.5
1:14
1:14
FD

103	
H	139.5
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

E2	
–	–
–	–
–	–
–	CO/–

105	
MU	176.5
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CS/–

106	
H	180.5
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

108	
H	216.5
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

109	
H	250.5
–	–
An	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

111	
H	291
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

E2	
–	–
–	–
–	–
–	CO/–

113	
H	336
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

E2	
–	–
–	–
–	–
–	CO/–

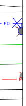
115	
H	381
–	–
–	–
–	–

E1	
–	–
–	–
–	–
–	CO/–

E2	
–	–
–	–
–	–
–	CO/–

117	
H	421.5
–	–
An	–
–	–

E1	
–	–
–	–
–	–
–	CO/–



LEGENDA TELECOMUNICATII
TELECOMMUNICATIONS LEGEND:

— FO — FO —	Cablu FO aerian proiectat Designed aerial OF cable
— FO — FO —	Cablu FO subteran proiectat Designed underground OF cable
╳FO — FO╳	Demontare cablu FO subteran instalat in faza 1 Dismounted underground OF cable installed in the 1st phase
╳FO — FO╳	Demontare cablu FO aerian instalat in faza 1 Dismounted aerial OF cable installed in the 1st phase
●	Stalp de beton existent care se pastreaza Existing concrete pole which is preserved
FO ●	Stalp de beton instalat in Faza 1 care se pastreaza Concrete pole installed in 1st Phase which is preserved
●	Stalp de beton existent - demontat Dismounted existing concrete pole
N ●	Stalp de beton proiectat pentru sustinerea cablului FO Designed concrete pole for supporting the OF cable
CT ☐	Camera de tragere proiectata / Designed manhole
CT ☐	Camera de tragere (Faza 1) / Existing manhole (1st Phase)
CM ◇	Camereta de beton existenta (Faza 1) / Existing concrete handhole (1st Phase)
═ FO ═ FO ═	Canalizatie telefonica cu tevi PVC Telephone conduit with PVC pipes

DESCRIEREA LUCRĂRILOR

Cablul cu fibre optice existent este instalat pe partea dreaptă a căii ferate şi este afectat construirea noilor linii c.f., fiind necesare lucrări de protejare a cablului existent, lucrări ce se vor realiza în 2 faze.

Faza 2 Lucrările la cablul cu fibre optice din faza 2 se execută după terminarea execuţiei noului dispozitiv de linii c.f. din staţie şi plantarea noilor stâlpi metalici ai linie de tracţiune, după cum urmează:

A. Capătul X al staţiei
- a) între capătul X al staţiei Vânători şi clădirea de călători proiectată se va instala un nou cablul cu fibre optice pe partea dreaptă a căii ferate.
  Cablul aerian proiectat se va monta pe stâlpii metalici, pe stâlpii de beton plantaţi în faza 1 şi stâlpii de beton proiectaţi.
- b) introducerea în sala de echipamente de telecomunicaţii din clădirea de călători se va face subteran prin canalizaţia telefonică proiectată pe peronul liniei 1
- c) După preluarea comunicaţiilor pe noul cablu cu fibre optice, cablul instalat în faza 1 se va demonta.

B. Capătul Y al staţiei
- a) între clădirea de călători proiectată şi capătul Y al staţiei Vânători cablul aerian proiectat se va instala pe partea dreaptă a căii ferate pe stâlpii de beton proiectaţi şi pe stâlpii metalici.
- b) După preluarea comunicaţiilor pe noul cablu cu fibre optice, cablul instalat în faza 1 se va demonta.

DESCRIPTION OF THE WORKS

The existing fiber optic cable is installed on the right side of the railway tracks and it is affected by the construction of the new railway tracks needing protection works, works that will be performed in 2 phases.

2nd Phase
The works at the fiber optic cable in the 2nd phase will be performed after the finishing of construction of the new rail tracks of station and the planting of the new metallic poles of the traction line as follows:

A. X end of station
- a) between the X end of Vânători station (starting from the H389 pole from Archita-Vânători section) and the designed passenger building it will be installed a new fiber optic cable on the right side of railway tracks.
  The designed aerial cable will be mounted on:
  - the metallic poles and the concrete poles planted in the 1st phase between the X end and the existing building
  - the designed concrete poles between the existing building and the designed passenger building.
- b) The introduction in the telecommunication equipment room from the passenger building will be made underground through the designed telephone conduit on platform track 1.
  The passing from aerial to underground will be nade on the designed concrete pole ar km 272+399 (enf of platform track 1).
  The introduction in the telecommunication equipment room will be performed with a indoor type fiber optic cable.
- c) After taking over the communications on the new fibre optic cable, the cable installed in the 1st phase will be dismounted.

B. Y end of station
- a) between the designed passenger building and the Y end of Vânători station the designed aerial cable will be mounted on the designed concrete poles up to km 272+516, continuing on the designed concrete poles and the metallic poles from the right side of the railway tracks.
- b) After taking over the communications on the new fibre optic cable, the cable installed in the 1st phase will be dismounted.

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 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	01.2012	
Aprobat Approved	Coordonator Secţiune 1 Section 1 Coordinator	C. Gambelli	01.2012	
Verificat Checked	Expert Verificator Checking Expert	Pino Amodio	01.2012	

SUBCONTRACTANT / SUBCONTRACTOR

AREX COMPANY

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

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.

Denumire desen / Drawing Title :

Mutarea si protejarea cablului FO existent - Faza 2
Plan de situatie - statia VANATORI station - Layout Plan
Removal and protection of existing OF cable - 2nd Phase

Codificare / Codification System	Scara / Scale 1:1000	LOT / LOT	Nr. / No 02 / 02

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