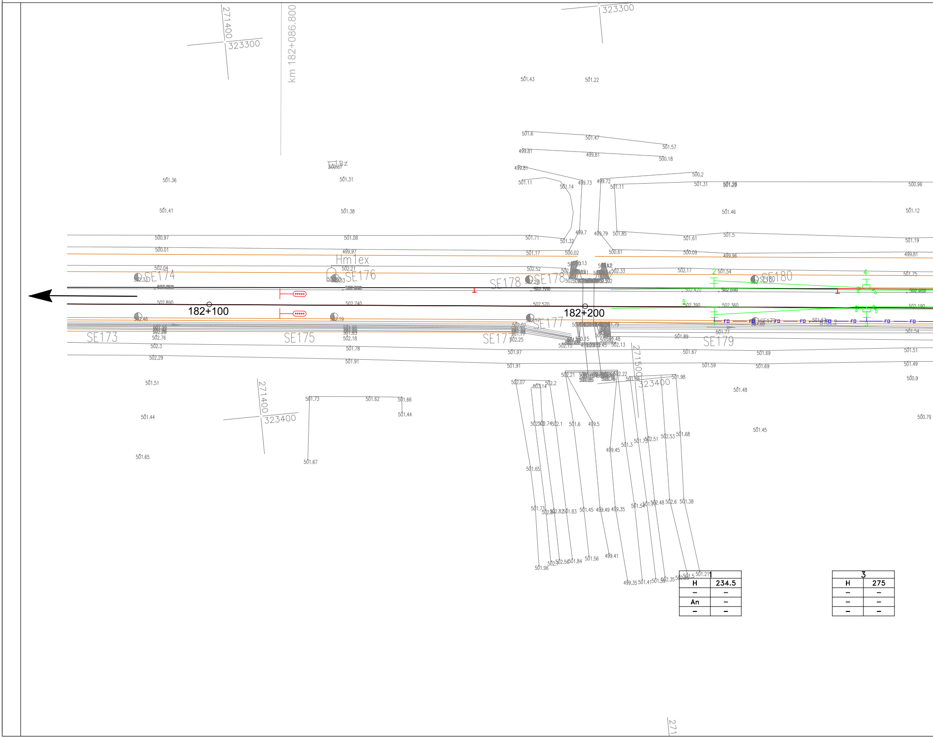
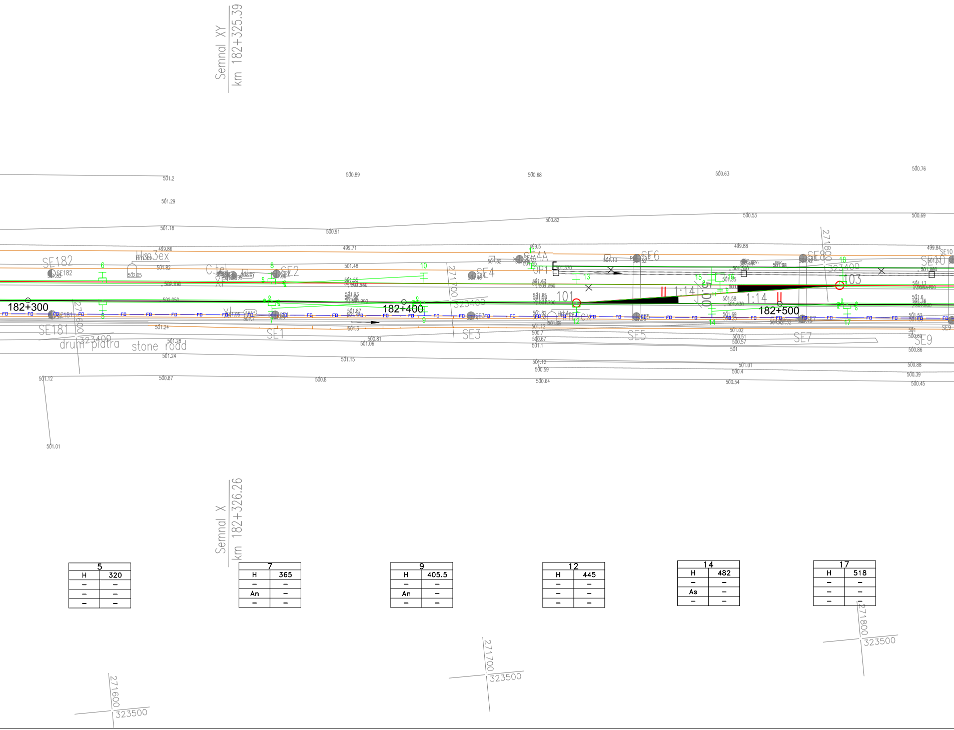

271400
323300
km 182+086.800
323300
182+100
182+200
SE173
SE174
SE175
SE176
SE177
SE178
SE179
SE180
Hm1ex
271500
323400
271400
323400
1
H 234.5
– –
An –
– –
3
H 275
– –
– –
– –
FD
271


Semnal XY
km 182+325.39
Semnal X
km 182+326.26
182+300
182+400
182+500
SE182
SE181
SE1
SE2
SE3
SE4
SE4A
SE5
SE6
SE7
SE8
SE9
SE10
Hm3ex
Hm4ex
C.tel
XI
OP1
101
103
1:14
1:14
drum piatra
stone road
271600
271700
271800
323400
323500
501.2
501.29
501.18
500.89
500.91
500.68
500.82
500.63
500.53
500.76
500.69
499.86
499.71
499.5
499.88
499.84
501.82
501.48
502.05
501.24
501.28
501.3
501.06
500.81
501.15
501.12
500.87
500.8
500.64
500.59
500.54
500.4
501.01
500.45
500.39
500.88
500.86
501.01
5
6
7
8
9
10
11
12
13
14
15
16
17
18
FO

5	
H	320
–	–
–	–
–	–

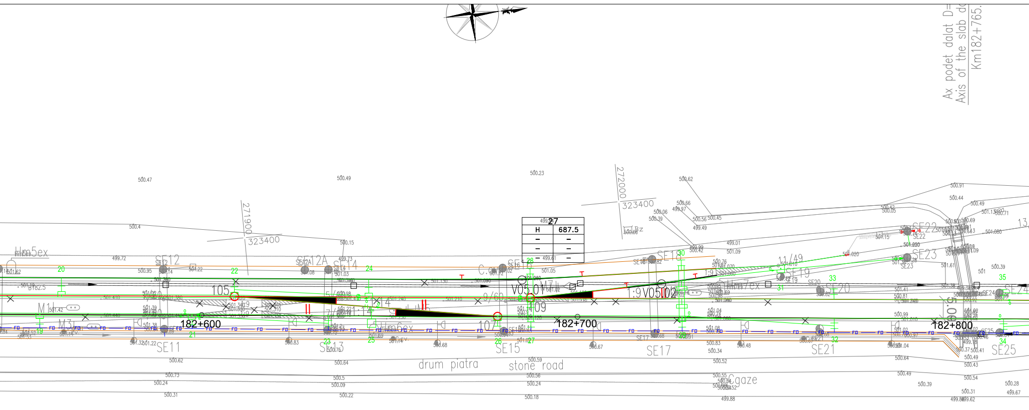
7	
H	365
–	–
An	–
–	–

9	
H	405.5
–	–
An	–
–	–

12	
H	445
–	–
–	–
–	–

14	
H	482
–	–
As	–
–	–

17	
H	518
–	–
–	–
–	–


Ax podet dalat D=
Axis of the slab d
Km182+765.
182+600
182+700
182+800
drum piatra
stone road
SE11
SE12
SE12A
SE13
SE14
SE15
SE16
SE17
SE18
SE19
SE20
SE21
SE22
SE23
SE24
SE25
V05.01
V05.02
1:9
105
107
109
Hm5ex
Hm6ex
Hm7ex
M1
M3
Cgaze
271900
323400
272000
323400
27
H 687.5

19	
H	557
–	–
–	–
–	–

21	
H	597.5
–	–
–	–
–	–

271900
323500

23	
H	634
–	–
As	–
–	–

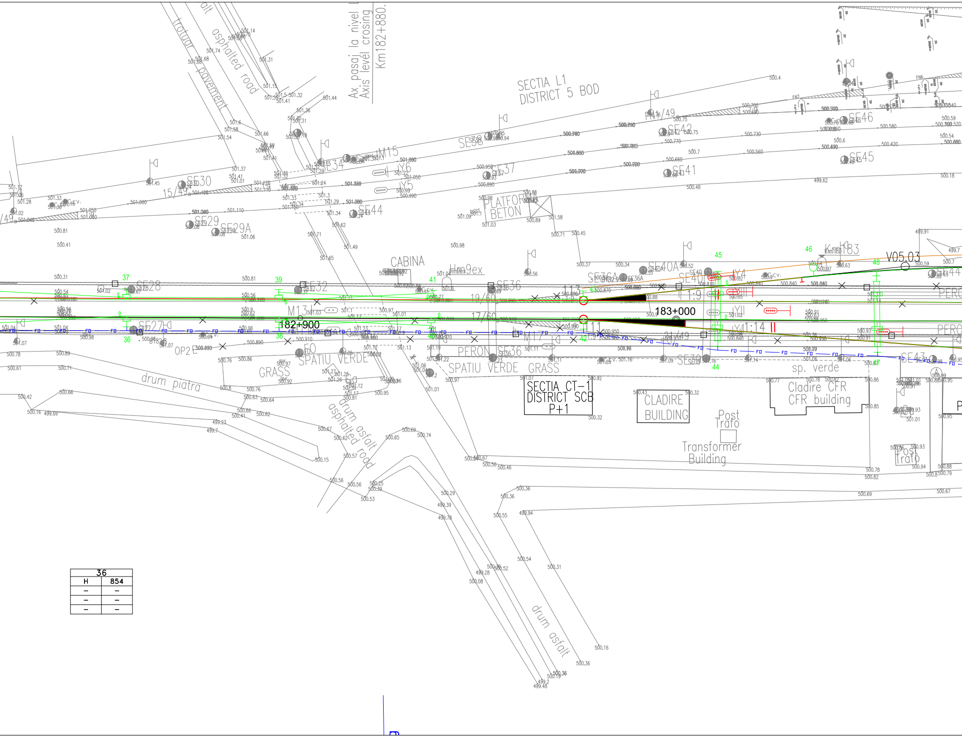
27	
H	687.5
–	–
–	–
–	–

272000
323500

29	
H	734
–	–
–	–
–	–

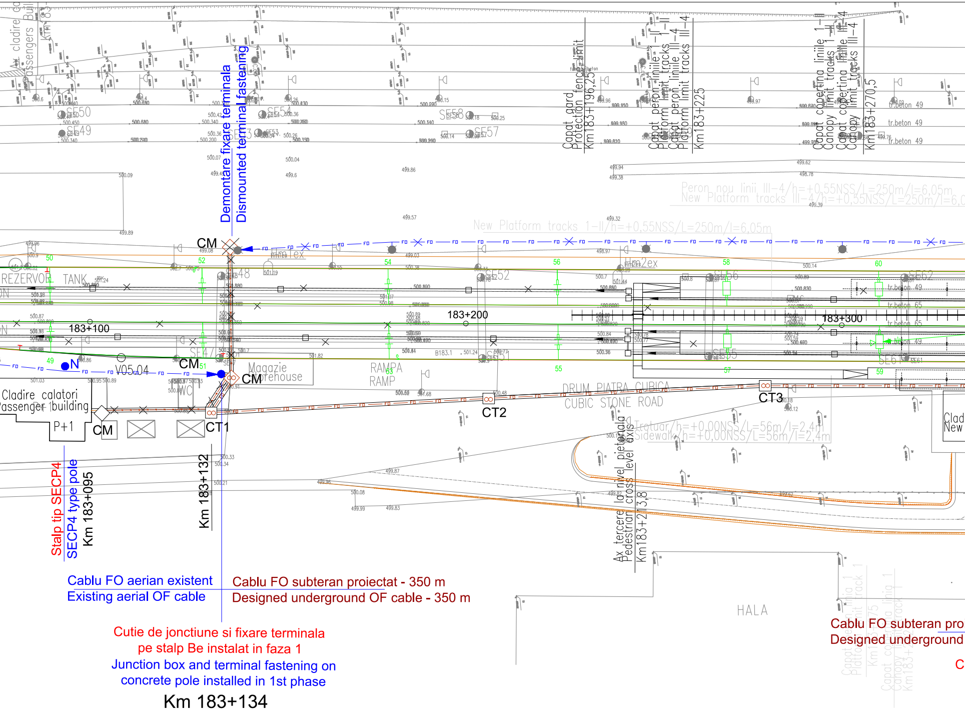
32	
H	773
–	–
As	–
–	–

34	
H	813.5
–	–
As	–
–	–



Ax pasaj la nivel
Axis level crossing
Km182+880.
SECTIA L1
DISTRICT 5 BOD
trotuar pavement
asphalted road
CABINA
PLATFORMA BETON
182+900
183+000
Km183
V05.03
PERON
SPATIU VERDE
GRASS
SPATIU VERDE GRASS
drum piatra
drum asfalt
asphalted road
SECTIA CT-1
DISTRICT SCB
P+1
CLADIRE
BUILDING
Post Trafo
Transformer Building
sp. verde
Cladire CFR
CFR building
Post Trafo
drum asfalt
M13
M15
M17
SE27
SE28
SE29
SE29A
SE30
SE32
SE34
SE36
SE36A
SE37
SE38
SE39
SE40
SE40A
SE41
SE42
SE43
SE44
SE45
SE46
15/49
19/60
17/60
21/49
1:9
1:14
OP2
36
37
38
39
41
42
43
44
45
46
48

36	
H	854
–	–
–	–
–	–


Demontare fixare terminala
Dismounted terminal fastening
CM
CM
CM
CT1
CT2
CT3
183+100
183+200
183+300
REZERVOR TANK
Magazie
Warehouse
RAMPA
RAMP
DRUM PIATRA CUBICA
CUBIC STONE ROAD
Cladire calatori
Passenger building
P+1
WC
V05.04
N
Trotuar/h=+0,00NSS/L=56m/l=2,4m
Sidewalk/h=+0,00NSS/L=56m/l=2,4m
Peron nou linii III-4/h=+0,55NSS/L=250m/l=6,05m
New Platform tracks III-4/h=+0,55NSS/L=250m/l=6,05m
New Platform tracks 1-II/h=+0,55NSS/L=250m/l=6,05m
Capat gard
Protection fence limit
Km183+196,25
Capat peron liniile 1-II
Platform limit tracks 1-II
Capat peron liniile III-4
Platform limit tracks III-4
Km183+225
Capat copertina liniile 1-II
Canopy limit tracks 1-II
Capat copertina liniile III-4
Canopy limit tracks III-4
Km183+270,5
Ax trecere la nivel pietonala
Pedestrian cross level axis
Km183+213,8
SE49
SE50
SE52
SE53
SE54
SE55
SE56
SE57
SE58
SE61
SE62
tr.beton 49
tr.beton 65
HALA
FO

Stalp tip SECP4
SECP4 type pole
Km 183+095

Km 183+132

Cablu FO aerian existent
Existing aerial OF cable

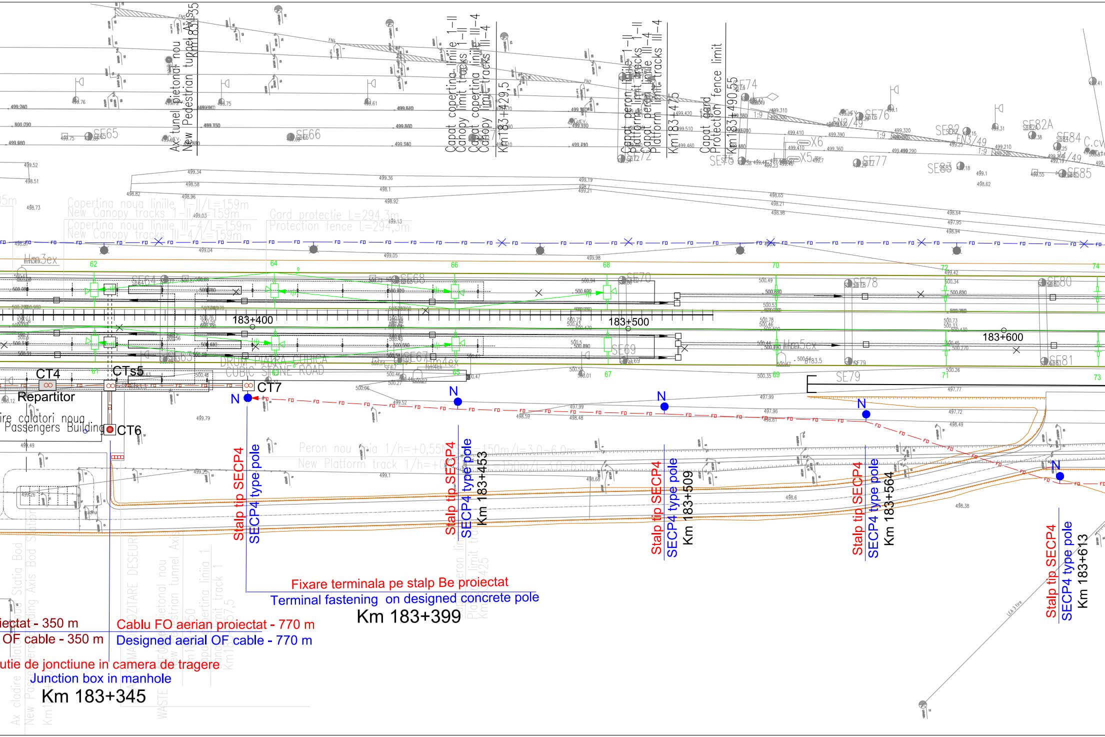
Cablu FO subteran proiectat - 350 m
Designed underground OF cable - 350 m

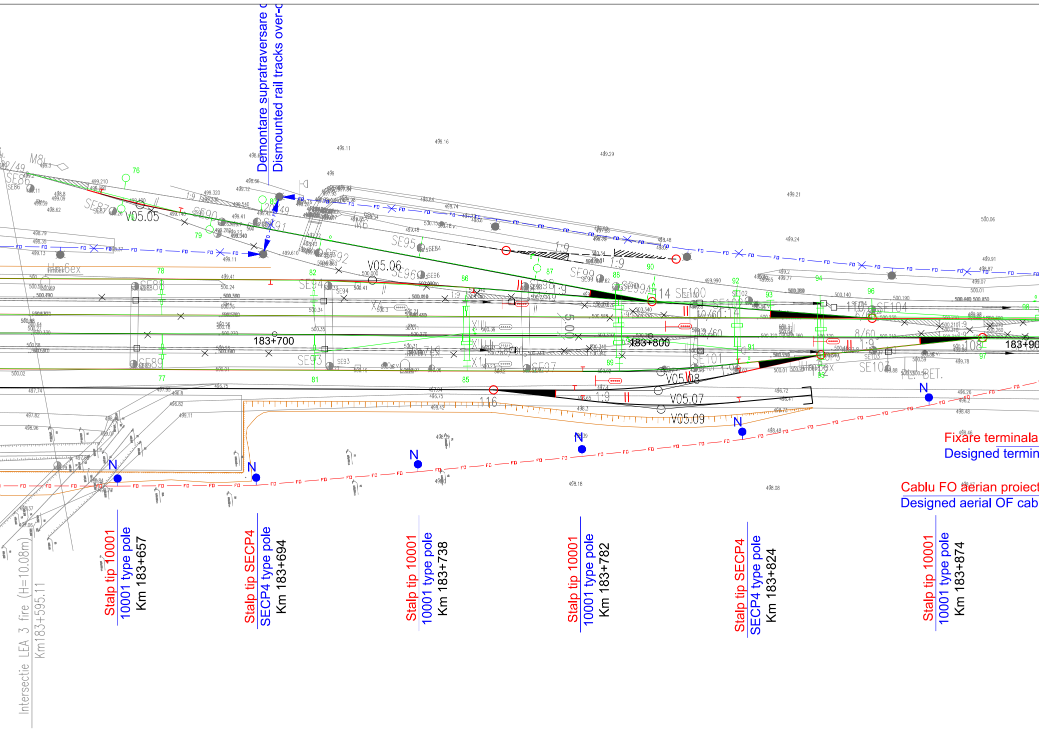
Cutie de jonctiune si fixare terminala
pe stalp Be instalat in faza 1
Junction box and terminal fastening on
concrete pole installed in 1st phase

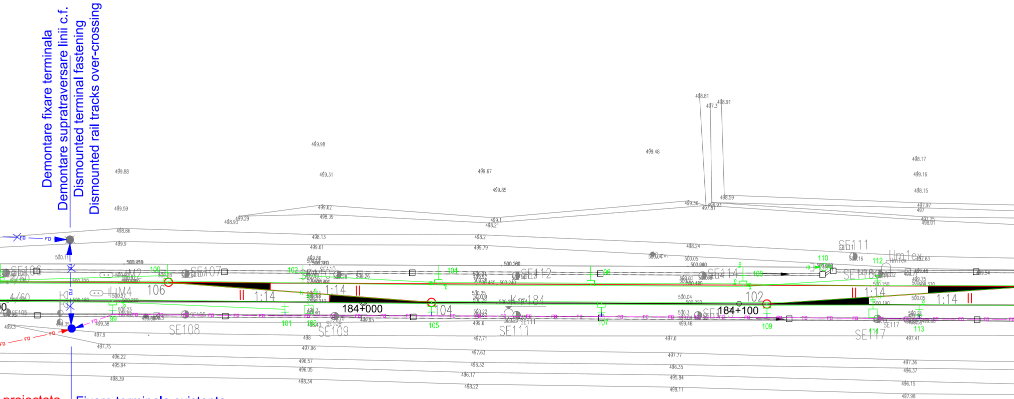
Km 183+134

Cablu FO subteran pro
Designed underground

C


Ax tunel pietonal nou
New Pedestrian tunnel Axis
Km183+335
Capat copertina liniile 1-II
Canopy limit tracks 1-II
Capat copertina liniile III-4
Canopy limit tracks III-4
Km183+429,5
Capat peron liniile 1-II
Platform limit tracks 1-II
Capat peron liniile III-4
Platform limit tracks III-4
Km183+475
Capat gard
Protection fence limit
Km183+490,55
SE65
SE66
SE74
SE76
SE77
SE82
SE82A
SE84
SE85
X5
X6
Copertina noua liniile 1-II/L=159m
New Canopy tracks 1-II/L=159m
Copertina noua liniile III-4/L=159m
New Canopy tracks III-4/L=159m
Gard protectie L=294,3m
Protection fence L=294,3m
62
64
66
68
70
72
74
61
65
67
69
71
73
SE64
SE68
SE70
SE78
SE80
SE63
SE67
SE69
SE79
SE81
183+400
183+500
183+600
DRUM PIATRA CUBICA
CUBIC STONE ROAD
CT4
CTs5
CT7
CT6
Repartitor
...ire calatori noua
Passengers Building
N
N
N
N
N
Peron nou linia 1/h=+0,55
New Platform track 1/h=+0
Stalp tip SECP4
SECP4 type pole
Km 183+453
Stalp tip SECP4
SECP4 type pole
Km 183+509
Stalp tip SECP4
SECP4 type pole
Km 183+564
Stalp tip SECP4
SECP4 type pole
Km 183+613
Stalp tip SECP4
SECP4 type pole
Fixare terminala pe stalp Be proiectat
Terminal fastening on designed concrete pole
Km 183+399
...iectat - 350 m
...OF cable - 350 m
Cablu FO aerian proiectat - 770 m
Designed aerial OF cable - 770 m
...utie de jonctiune in camera de tragere
Junction box in manhole
Km 183+345
FO


Demontare supratraversare c
Dismounted rail tracks over-c
V05.05
V05.06
V05.07
V05.08
V05.09
183+700
183+800
183+90
Fixare terminala
Designed termin
Cablu FO aerian proiect
Designed aerial OF cab
Stalp tip 10001
10001 type pole
Km 183+657
Stalp tip SECP4
SECP4 type pole
Km 183+694
Stalp tip 10001
10001 type pole
Km 183+738
Stalp tip 10001
10001 type pole
Km 183+782
Stalp tip SECP4
SECP4 type pole
Km 183+824
Stalp tip 10001
10001 type pole
Km 183+874
Intersectie LEA 3 fire (H=10.08m)
Km183+595.11


Demontare fixare terminala
Demontare supratraversare linii c.f.
Dismounted terminal fastening
Dismounted rail tracks over-crossing
SE106
SE107
SE108
SE109
SE110
SE111
SE112
SE114
SE117
1:14
1:14
1:14
1:14
184+000
184+100
Km 184
106
104
102
99
101
103
105
107
109
110
112
113
M2
M4
FO

proiectata | Fixare terminala existenta
al fastening | Existing terminal fastening

at - 770 m | Cablu FO aerian existent mutat
le - 770 m | Relocated existing aerial OF cable

Km 183+922

99	
H	933.5
–	–
–	–
–	–

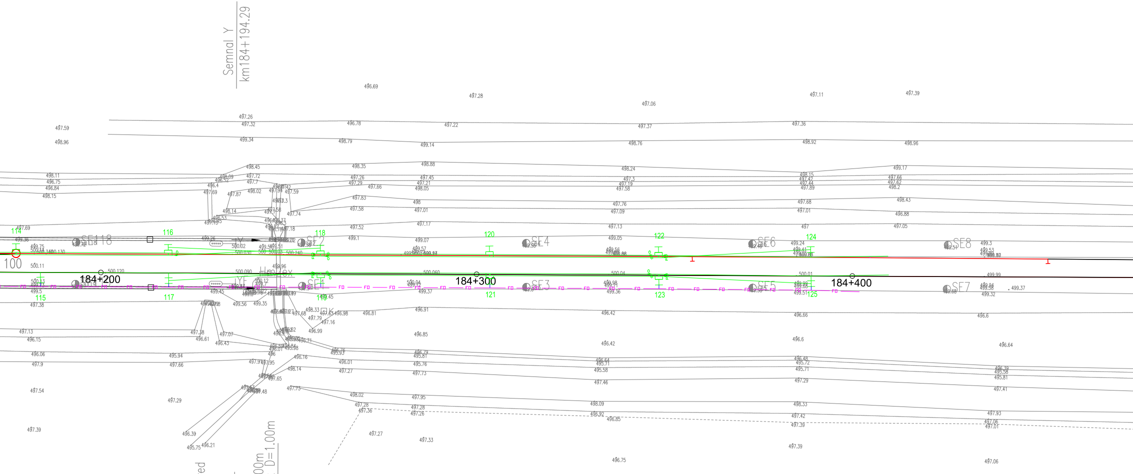
101	
H	979.5
–	–
As	–
–	–

105	
H	019
–	–
–	–
–	–

107	
H	063.5
–	–
–	–
–	–

109	
H	106.5
–	–
–	–
–	–

113	
H	148
–	–
–	–
–	–


Semnal Y
km184+194.29
184+200
184+300
184+400
100
SE118
SE2
SE4
SE6
SE8
SE1
SE3
SE5
SE7
114
115
116
117
118
119
120
121
122
123
124
125
Y
YF
K
FO
Axis footbridge covered
Km184+187.18
Semnal YF
km184+194.19
Ax podet dalat D=1.00m
Axis slab culvertdalat D=1.00m
Km184+205.67

115	
H	184
–	–
–	–
–	–

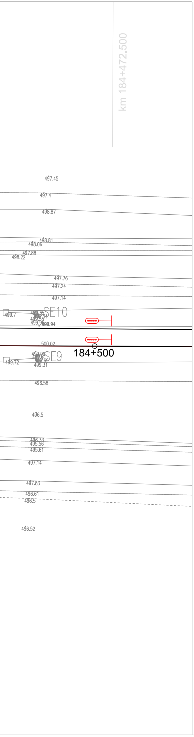
117	
H	218
–	–
An	–
–	–

119	
H	258.5
–	–
–	–
–	–

121	
H	303.5
–	–
–	–
–	–

123	
H	348.5
–	–
–	–
–	–

125	
H	389
–	–
An	–
–	–


km 184+472.500
497.45
497.4
498.87
498.81
498.06
497.88
498.22
497.76
497.24
497.14
SE10
499.7
499.94
500.02
184+500
SE9
499.72
499.31
496.58
496.5
496.33
495.56
495.61
497.14
497.83
496.61
496.5
496.52

LEGENDA TELECOMUNICATII
TELECOMMUNICATIONS LEGEND:

FO FO	Cablu cu fibre optice aerian existent - mutat pe stalpii metalici Relocated existing aerial OF cable - relocated on the metallic poles
FO FO	Demontare cablu FO aerian instalat in faza 1 Dismounted aerial OF cable installed in the 1st phase
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 1st phase
FO FO	Cablu FO aerian proiectat Designed aerial OF cable
FO FO	Cablu FO aerian mutat Relocated aerial OF cable
CT □	Camera de tragere / Manhole
CM ◇	Cameretа de beton / Concrete handhole
	Canalizatie telefonica cu tevi PVC Telephone conduit with PVC pipes
N ●	Stalp de beton proiectat pentru sustinerea cablului FO Designed concrete pole for supporting the OF cable
●	Stalp de beton existent care se pastreaza Existing concrete pole which preserved
●	Stalp de beton existen - demontat Dismounted existing concrete pole

DESCRIEREA LUCRĂRILOR

Lucrările de mutare şi protejare a cablului cu fibre optice existent se vor desfăşura în două faze.

Faza 2 **-** se execută după execuţia lucrărilor la linia I din staţie şi are ca scop readucerea cablului cu fibre optice pe partea dreaptă a căii ferate pentru eliberarea amplasamentului lucrărilor de construcţii de pe partea stângă a căii ferate, prin:

- instalarea subterană a unui nou cablu cu fibre optice pe partea dreaptă a liniei CF între vechea şi noua clădire a staţiei, prin execuţia unei canalizaţii cu ţevi PVC
- instalarea aeriană a unui nou cablu cu fibre optice pe partea dreapă a liniei CF între noua clădire a staţiei şi km 183+889 folosind stâlpi noi de beton
- pe stâlpul de la km 183+889 cablul proiectat se va joncţiona cu cablul existent
- introducerea cablului cu fibre optice în noua clădire a staþiei CF se face prin canalizaþia telefonică proiectată.

După preluarea comunicaţiilor pe noul traseu de pe partea dreaptă cablul cu fibre optice instalat în faza I pe partea stângă se va demonta.

DESCRIPTION OF THE WORKS

The relocation and the protection of the fiber optical cable will be made in 2 phases.

2nd Phase - it will be performed after the ending of the construction works at the first line in station and has as scope to set free the site on the left side of tracks by bringing back the optical fiber cable on the right side, by:

- the underground installation of a new fiber optic cable on the right side of tracks between the old and new station buildings by performing a telephone conduit with PVC pipes
- installation of a new aerial fiber optical cable on the right side of the railway tracks between the new station building and km 183+889 using new concrete poles
- on the pole at km 183+889 the designed cable will be jointed with the existing cable
- the introduction of the fiber optic cable in the new station building will be made through the designed telephone conduit.

After the taking over the communications on the new optical fiber cable on the right side, the existing cable installed in the first phase on the left side will be dismounted.

.

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 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	05.2011	
Aprobat Approved	Coordonator Secţiune 1 Section 1 Coordinator	C. Gambelli	05.2011	
	Expert Verificator Checking Expert	Pino Amodio	05.2011	

SUBCONTRACTANT / SUBCONTRACTOR

AREX COMPANY

Aprobat Approved	Responsabil Subcontractant Subcontractor Responsible	A.Stanciu - Dinulescu	05.2011	
Întocmit Elaborated	Proiectant Designer	Stefania Archip	05.2011	

Reabilitarea liniei de cale ferata Brasov - Simeria, parte componentă a coridorului IV Pan European, pentru circulaţia 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:
P.Th. / T.D.

Denumire desen / Drawing Title :

Mutarea si protejarea cablului FO existent - Faza 2
Plan de situatie - Statia Bod; Bod Station - Lyaout Plan
Relocation and protection of existing OF cable - 2nd Phase

Codificare / Codification System	Scara / Scale 1:500	LOT / LOT	Nr. / No 02 / 02

E A 5 1 0 1 C 0 5 L 8 T C 0 2 1 1 0 0 1 1