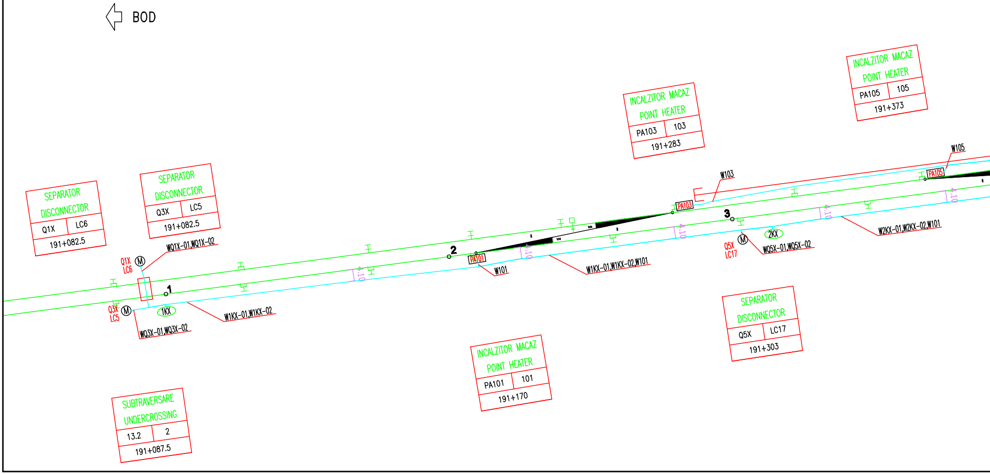
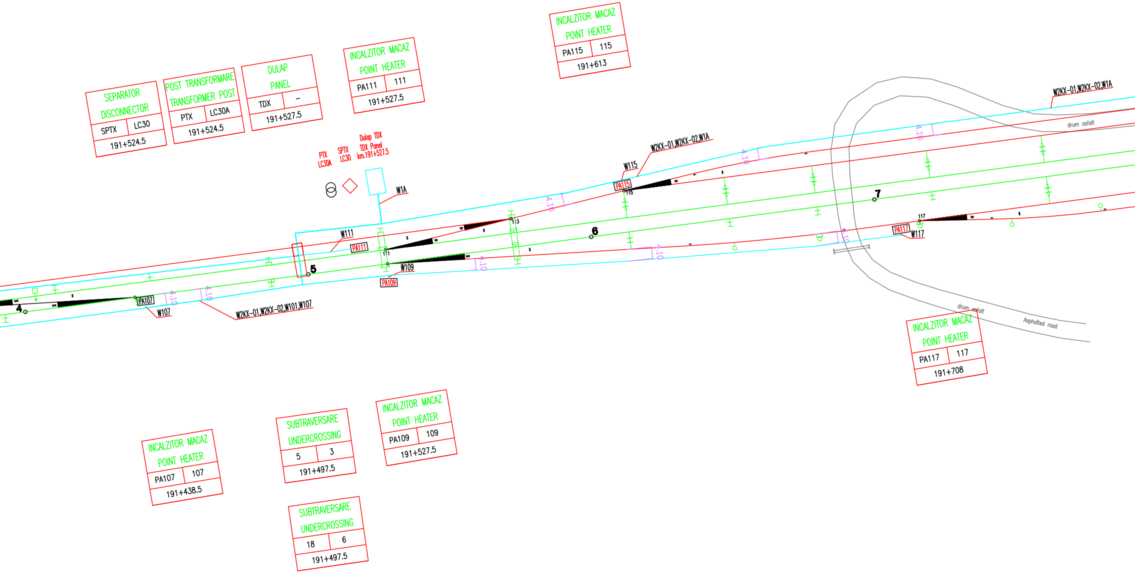
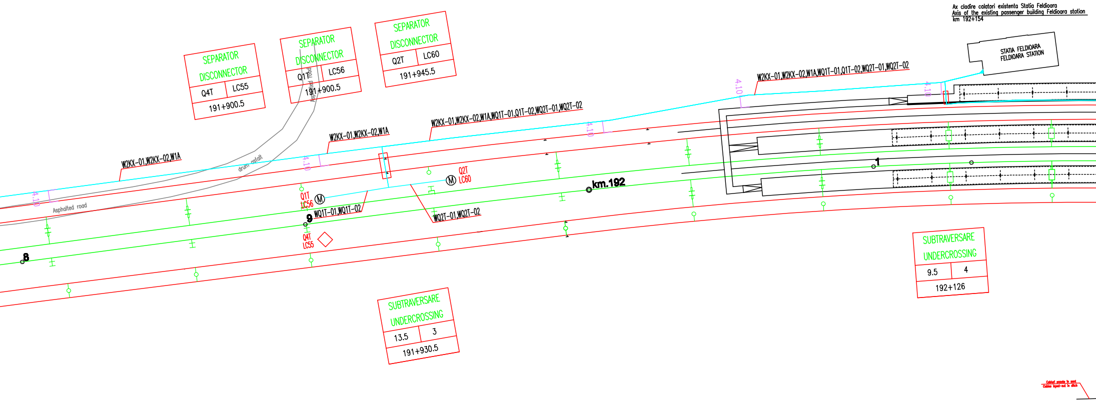
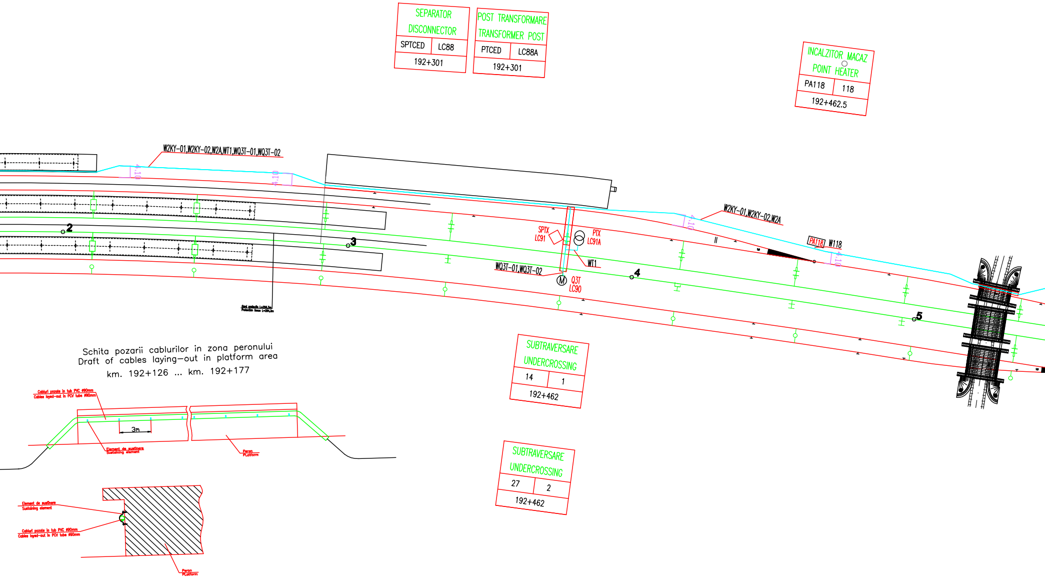

BOD
SEPARATOR DISCONNECTOR
Q1X | LC6
191+082.5
SEPARATOR DISCONNECTOR
Q3X | LC5
191+082.5
INCALZITOR MACAZ POINT HEATER
PA103 | 103
191+283
INCALZITOR MACAZ POINT HEATER
PA105 | 105
191+373
INCALZITOR MACAZ POINT HEATER
PA101 | 101
191+170
SEPARATOR DISCONNECTOR
Q5X | LC17
191+303
SUBTRAVERSARE UNDERCROSSING
13.2 | 2
191+087.5
Q1X
LC6
Q3X
LC5
Q5X
LC17
M
1
2
3
1KX
2KX
PA101
PA103
PA105
W101
W103
W105
WQ1X-01,WQ1X-02
WQ3X-01,WQ3X-02
WQ5X-01,WQ5X-02
W1KX-01,W1KX-02
W1KX-01,W1KX-02,W101
W2KX-01,W2KX-02,W101
4.10

STATIA FEL


SEPARATOR DISCONNECTOR
SPTX | LC30
191+524.5
POST TRANSFORMARE TRANSFORMER POST
PTX | LC30A
191+524.5
DULAP PANEL
TDX | –
191+527.5
INCALZITOR MACAZ POINT HEATER
PA111 | 111
191+527.5
INCALZITOR MACAZ POINT HEATER
PA115 | 115
191+613
PTX
LC30A
SPTX
LC30
Dulap TDX
TDX Panel
km.191+527.5
W1A
W115
W2KX-01,W2KX-02,W1A
W2KX-01,W2KX-02,W1A
drum asfalt
4.10
4.10
4.10
4.10
4.10
4.10
4.10
PA115
115
113
111
W111
PA111
5
6
7
117
PA117
W117
W109
PA109
4
PA107
W107
W2KX-01,W2KX-02,W101,W107
drum asfalt
Asphalted road
INCALZITOR MACAZ POINT HEATER
PA117 | 117
191+708
INCALZITOR MACAZ POINT HEATER
PA107 | 107
191+438.5
SUBTRAVERSARE UNDERCROSSING
5 | 3
191+497.5
INCALZITOR MACAZ POINT HEATER
PA109 | 109
191+527.5
SUBTRAVERSARE UNDERCROSSING
18 | 6
191+497.5

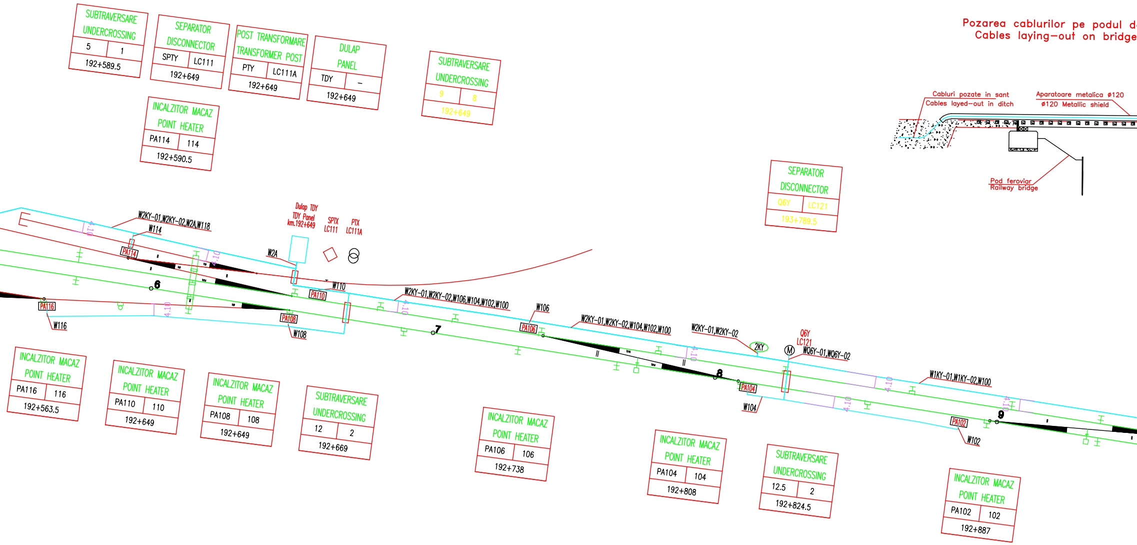
DIOARA / FELDIOARA STATION


Ax cladire calatori existenta Statia Feldioara
Axis of the existing passenger building Feldioara station
km 192+154
STATIA FELDIOARA
FELDIOARA STATION
SEPARATOR
DISCONNECTOR
Q4T
LC55
191+900.5
SEPARATOR
DISCONNECTOR
Q1T
LC56
191+900.5
SEPARATOR
DISCONNECTOR
Q2T
LC60
191+945.5
W2KX-01,W2KX-02,W1A,WQ1T-01,Q1T-02,WQ2T-01,WQ2T-02
W2KX-01,W2KX-02,W1A,WQ1T-01,Q1T-02,WQ2T-01,WQ2T-02
W2KX-01,W2KX-02,W1A
W2KX-01,W2KX-02,W1A
4.10
4.10
4.10
4.10
4.10
drum asfalt
Asphalted road
Q1T
LC56
Ⓜ
Q2T
LC60
Ⓜ
WQ1T-01,WQ1T-02
WQ2T-01,WQ2T-02
Q4T
LC55
km.192
1
8
9
SUBTRAVERSARE
UNDERCROSSING
13.5
3
191+930.5
SUBTRAVERSARE
UNDERCROSSING
9.5
4
192+126
Cabluri pozate in sant
Cables layed-out in ditch

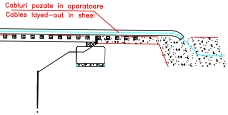

SEPARATOR
DISCONNECTOR
SPTCED
LC88
192+301
POST TRANSFORMARE
TRANSFORMER POST
PTCED
LC88A
192+301
INCALZITOR MACAZ
POINT HEATER
PA118
118
192+462.5
W2KY-01,W2KY-02,W2A,WT1,WQ3T-01,WQ3T-02
4.10
4.10
2
3
Gard protectie L=294,3m
Protection fence L=294,3m
SPTX
LC91
PTX
LC91A
WT1
WQ3T-01,WQ3T-02
M
Q3T
LC90
4
W2KY-01,W2KY-02,W2A
4.10
II
PA118
W118
4.10
5
SUBTRAVERSARE
UNDERCROSSING
14
1
192+462
SUBTRAVERSARE
UNDERCROSSING
27
2
192+462
Cabluri pozate in tub PVC ø90mm
Cables layed-out in PCV tube ø90mm
3m
Element de sustinere
Sustaining element
Peron
PLatform
Element de sustinere
Sustaining element
Cabluri pozate in tub PVC ø90mm
Cables layed-out in PCV tube ø90mm
Peron
PLatform

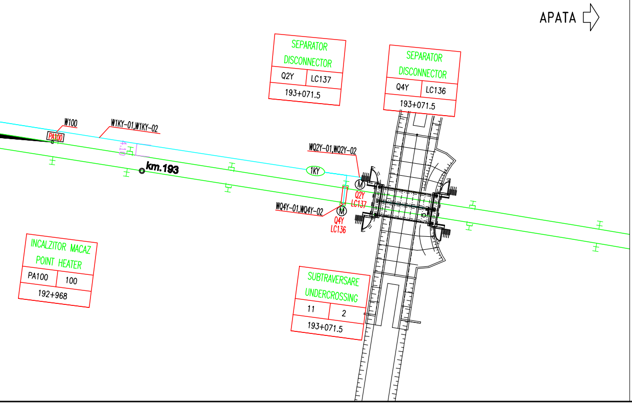
Schita pozarii cablurilor in zona peronului
Draft of cables laying-out in platform area
km. 192+126 ... km. 192+177

Pozarea cablurilor pe podul d
Cables laying-out on bridge


SUBTRAVERSARE UNDERCROSSING 5 1 192+589.5
SEPARATOR DISCONNECTOR SPTY LC111 192+649
POST TRANSFORMARE TRANSFORMER POST PTY LC111A 192+649
DULAP PANEL TDY – 192+649
SUBTRAVERSARE UNDERCROSSING 9 8 192+649
INCALZITOR MACAZ POINT HEATER PA114 114 192+590.5
SEPARATOR DISCONNECTOR Q6Y LC121 193+789.5
Cabluri pozate in sant
Cables layed-out in ditch
Aparatoare metalica ø120
ø120 Metallic shield
Pod feroviar
Railway bridge
W2KY-01,W2KY-02,W2A,W118
W114
PA114
Dulap TDY
TDY Panel
km.192+649
SPTX
LC111
PTX
LC111A
W2A
W110
PA110
6
PA116
W116
PA108
W108
7
W2KY-01,W2KY-02,W106,W104,W102,W100
W106
PA106
W2KY-01,W2KY-02,W104,W102,W100
W2KY-01,W2KY-02
2KY
Q6Y
LC121
M
WQ6Y-01,WQ6Y-02
8
PA104
W104
W1KY-01,W1KY-02,W100
9
PA102
W102
4.10
INCALZITOR MACAZ POINT HEATER PA116 116 192+563.5
INCALZITOR MACAZ POINT HEATER PA110 110 192+649
INCALZITOR MACAZ POINT HEATER PA108 108 192+649
SUBTRAVERSARE UNDERCROSSING 12 2 192+669
INCALZITOR MACAZ POINT HEATER PA106 106 192+738
INCALZITOR MACAZ POINT HEATER PA104 104 192+808
SUBTRAVERSARE UNDERCROSSING 12.5 2 192+824.5
INCALZITOR MACAZ POINT HEATER PA102 102 192+887

e la Km. 292+526.157
at Km. 292+526.157


Cabluri pozate in aparatoare
Cables layed-out in sheel


APATA
SEPARATOR
DISCONNECTOR
Q2Y
LC137
193+071.5
SEPARATOR
DISCONNECTOR
Q4Y
LC136
193+071.5
W100
PA100
W1KY-01,W1KY-02
km.193
WQ2Y-01,WQ2Y-02
1KY
M
Q2Y
LC137
WQ4Y-01,WQ4Y-02
M
Q4Y
LC136
INCALZITOR MACAZ
POINT HEATER
PA100
100
192+968
SUBTRAVERSARE
UNDERCROSSING
11
2
193+071.5

DISCONNECTORS REMOTE CON

Nr. No	De la From	La To	Tip Type	ID
1	Tablou CDS DRC Panel	2KX	CYAbY 2x35 mm^2	W2KX-01
2	Tablou CDS DRC Panel	2KX	CSYAbY 27x1,5 mm^2	W2KX-02
3	2KX	1KX	CYABY 2x35 mm^2	W1KX-01
4	2KX	1KX	CSYAbY 27x1,5 mm^2	W1KX-02
5	1KX	Q1X	CYAbY 2x6 mm^2	WQ1X-01
6	1KX	Q1X	CSYAbY 12x1,5 mm^2	WQ1X-02
7	1KX	Q3X	CYAbY 2x6 mm^2	WQ3X-01
8	1KX	Q3X	CSYAbY 12x1,5 mm^2	WQ3X-02
9	2KX	Q5X	CYAbY 2x6 mm^2	WQ5X-01
10	2KX	Q5X	CSYAbY 12x1,5 mm^2	WQ5X-02
11	PT-CED	tablou CED/IS panel	CYAbY 3x50 mm^2	WT1
12	Tablou CDS DRC Panel	Q1T	CSYAbY 12x1,5 mm^2	WQ1T-02
13	Tablou CDS DRC Panel	Q1T	CYAbY 2x10 mm^2	WQ1T-01
14	Tablou CDS DRC Panel	Q2T	CSYAbY 12x1,5 mm^2	WQ2T-02
15	Tablou CDS DRC Panel	Q2T	CYAbY 2x10 mm^2	WQ2T-01
16	Tablou CDS DRC Panel	Q3T	CSYAbY 12x1,5 mm^2	WQ3T-02
17	Tablou CDS DRC Panel	Q3T	CYAbY 2x10 mm^2	WQ3T-01
18	Tablou CDS DRC Panel	2KY	CYAbY 2x25 mm^2	W2KY-01
19	Tablou CDS DRC Panel	2KY	CSYAbY 27x1,5 mm^2	W2KY-02
20	2KY	1KY	CYABY 2x35 mm^2	W1KY-01
21	2KY	1KY	CSYAbY 21x1,5 mm^2	W1KY-02
22	1KY	Q2Y	CYAbY 2x6 mm^2	WQ2Y-01
23	1KY	Q2Y	CSYAbY 12x1,5 mm^2	WQ2Y-02
24	1KY	Q4Y	CYAbY 2x6 mm^2	WQ4Y-01
25	1KY	Q4Y	CSYAbY 12x1,5 mm^2	WQ4Y-02
26	2KY	Q6Y	CYAbY 2x6 mm^2	WQ6Y-01
27	2KY	Q6Y	CSYAbY 12x1,5 mm^2	WQ6Y-02

CABLE DESCRIPTION

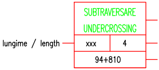
POINT HEATERS

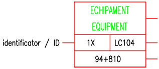
NTROL

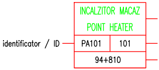
Descriere Description
alimentare motor şi încălzire motor power-supply and heating
comandă şi semnalizare / comand and signaling
alimentare motor şi încălzire motor power-supply and heating
comandă şi semnalizare / comand and signaling
alimentare şi încălzire Q1X power-supply and heating for disconnector Q1X
comandă şi semnalizare separator Q1X comand and signaling for disconnector Q1X
alimentare şi încălzire Q3X power-supply and heating for disconnector Q3X
comandă şi semnalizare separator Q3X comand and signaling for disconnector Q3X
alimentare şi încălzire Q5X power-supply and heating for disconnector Q5X
comandă şi semnalizare separator Q5X comand and signaling for disconnector Q5X
alimentare tablou distributie rezerva CED power supply distribution panel IS
comandă şi semnalizare separator Q1T comand and signaling for disconnector Q1T
alimentare şi încălzire Q1T power-supply and heating for disconnector Q1T
comandă şi semnalizare separator Q2T comand and signaling for disconnector Q2T
alimentare şi încălzire Q2T power-supply and heating for disconnector Q2T
comandă şi semnalizare separator Q3T comand and signaling for disconnector Q3T
alimentare şi încălzire Q3T power-supply and heating for disconnector Q3T
alimentare motor şi încălzire motor power-supply and heating
comandă şi semnalizare / comand and signaling
alimentare motor şi încălzire motor power-supply and heating
comandă şi semnalizare / comand and signaling
alimentare şi încălzire Q2Y power-supply and heating for disconnector Q2Y
comandă şi semnalizare separator Q2Y comand and signaling for disconnector Q2Y
alimentare şi încălzire Q4Y power-supply and heating for disconnector Q4Y
comandă şi semnalizare separator Q4Y comand and signaling for disconnector Q4Y
alimentare şi încălzire Q6Y power-supply and heating for disconnector Q6Y
comandă şi semnalizare separator Q6Y comand and signaling for disconnector Q6Y

Nr. No	De la From	La To	Tip Type	ID	Lungime Length	Descriere Description
1	Panoul DRC	TDX	CSYAbY 12x1,5 mm^2	W1A	900	comandă şi semnalizare / comand and signaling
2	PTx	TDX	CYAbY 3x95 mm^2	WTDX	150	alimentare tablou distributie TDX power-supply for distribution box TDX
3	TDX	macaz / point 101	CYAbY 2x35 mm^2	W101	350	alimentare macaz 101 / power-supply for point 101
4	TDX	macaz / point 103	CYAbY 2x35 mm^2	W103	270	alimentare macaz 103 / power-supply for point 103
5	TDX	macaz / point 105	CYAbY 2x25 mm^2	W105	180	alimentare macaz 105 / power-supply for point 105
6	TDX	macaz / point 107	CYAbY 2x25 mm^2	W107	120	alimentare macaz 107 / power-supply for point 107
7	TDX	macaz / point 109	CYAbY 2x25 mm^2	W109	40	alimentare macaz 109 / power-supply for point 109
8	TDX	macaz / point 111	CYAbY 2x16 mm^2	W111	30	alimentare macaz 111 / power-supply for point 111
9	TDX	macaz / point 115	CYAbY 2x16 mm^2	W115	100	alimentare macaz 115 / power-supply for point 115
10	TDX	macaz / point 117	CYAbY 2x16 mm^2	W117	230	alimentare macaz 117 / power-supply for point 117
11	macaz / point 101	UT	MCGI 2X4		10	alimentare macaz 101 / power-supply for point 101
12	macaz / point 101	UT	MCGI 2X4		10	alimentare macaz 101 / power-supply for point 101
13	macaz / point 103	UT	MCGI 2X4		10	alimentare macaz 103 / power-supply for point 103
14	macaz / point 103	UT	MCGI 2X4		10	alimentare macaz 103 / power-supply for point 103
15	macaz / point 105	UT	MCGI 2X4		10	alimentare macaz 105 / power-supply for point 105
16	macaz / point 105	UT	MCGI 2X4		10	alimentare macaz 105 / power-supply for point 105
17	macaz / point 107	UT	MCGI 2X4		10	alimentare macaz 107 / power-supply for point 107
18	macaz / point 107	UT	MCGI 2X4		10	alimentare macaz 107 / power-supply for point 107
19	macaz / point 109	UT	MCGI 2X4		10	alimentare macaz 109 / power-supply for point 109
20	macaz / point 109	UT	MCGI 2X4		10	alimentare macaz 109 / power-supply for point 109
21	macaz / point 111	UT	MCGI 2X4		10	alimentare macaz 111 / power-supply for point 111
22	macaz / point 111	UT	MCGI 2X4		10	alimentare macaz 111 / power-supply for point 111
23	macaz / point 115	UT	MCGI 2X4		10	alimentare macaz 115 / power-supply for point 115
24	macaz / point 115	UT	MCGI 2X4		10	alimentare macaz 115 / power-supply for point 115
25	macaz / point 117	UT	MCGI 2X4		10	alimentare macaz 117 / power-supply for point 117
26	macaz / point 117	UT	MCGI 2X4		10	alimentare macaz 117 / power-supply for point 117
27	Panoul DRC	TDY	CSYAbY 12x1,5 mm^2	W2A	320	comandă şi semnalizare / comand and signaling
28	PTy	TDY	CYAbY 3x95 mm^2	WTDY	150	alimentare tablou distributie TDY power-supply for distribution box TDY
29	TDY	macaz / point 100	CYAbY 2x35 mm^2	W100	340	alimentare macaz 100 / power-supply for point 100
30	TDY	macaz / point 102	CYAbY 2x35 mm^2	W102	280	alimentare macaz 102 / power-supply for point 102
31	TDY	macaz / point 104	CYAbY 2x25 mm^2	W104	190	alimentare macaz 104 / power-supply for point 104
32	TDY	macaz / point 106	CYAbY 2x25mm^2	W106	120	alimentare macaz 106 / power-supply for point 106
33	TDY	macaz / point 108	CYAbY 2x25 mm^2	W108	40	alimentare macaz 108 / power-supply for point 108
34	TDY	macaz / point 110	CYAbY 2x16 mm^2	W110	30	alimentare macaz 110 / power-supply for point 110
35	TDY	macaz / point 114	CYAbY 2x16 mm^2	W114	70	alimentare macaz 114 / power-supply for point 114
36	TDY	macaz / point 116	CYAbY 2x16 mm^2	W116	130	alimentare macaz 116 / power-supply for point 116
37	TDY	macaz / point 118	CYAbY 2x16 mm^2	W118	220	alimentare macaz 118 / power-supply for point 118
38	macaz / point 100	UT	MCGI 2X4		10	alimentare macaz 100 / power-supply for point 100
39	macaz / point 100	UT	MCGI 2X4		10	alimentare macaz 100 / power-supply for point 100
40	macaz / point 102	UT	MCGI 2X4		10	alimentare macaz 102 / power-supply for point 102
41	macaz / point 102	UT	MCGI 2X4		10	alimentare macaz 102 / power-supply for point 102
42	macaz / point 104	UT	MCGI 2X4		10	alimentare macaz 104 / power-supply for point 104
43	macaz / point 104	UT	MCGI 2X4		10	alimentare macaz 104 / power-supply for point 104
44	macaz / point 106	UT	MCGI 2X4		10	alimentare macaz 106 / power-supply for point 106
45	macaz / point 106	UT	MCGI 2X4		10	alimentare macaz 106 / power-supply for point 106

46	macaz / point 108	
47	macaz / point 108	
48	macaz / point 110	
49	macaz / point 110	
50	macaz / point 114	
51	macaz / point 114	
52	macaz / point 116	
53	macaz / point 116	
54	macaz / point 118	
55	macaz / point 118	
56	PTX	
57	PTY	


SUBTRAVERSARE
UNDERCROSSING
lungime / length
xxx
4
94+810


ECHIPAMENT
EQUIPMENT
identificator / ID
1X
LC104
94+810


INCALZITOR MACAZ
POINT HEATER
identificator / ID
PA101
101
94+810

UT	MCGI 2X4		10	alimentare macaz 108 / power-supply for point 108
UT	MCGI 2X4		10	alimentare macaz 108 / power-supply for point 108
UT	MCGI 2X4		10	alimentare macaz 110 / power-supply for point 110
UT	MCGI 2X4		10	alimentare macaz 110 / power-supply for point 110
UT	MCGI 2X4		20	alimentare macaz 114 / power-supply for point 114
UT	MCGI 2X4		20	alimentare macaz 114 / power-supply for point 114
UT	MCGI 2X4		20	alimentare macaz 116 / power-supply for point 116
UT	MCGI 2X4		20	alimentare macaz 116 / power-supply for point 116
UT	MCGI 2X4		20	alimentare macaz 118 / power-supply for point 118
UT	MCGI 2X4		20	alimentare macaz 118 / power-supply for point 118
BJ1	CYABY 1X50 mm2		100	circuit de retur/retur circuit
BJ2	CYABY 1X50 mm2		100	circuit de retur/retur circuit

Legenda/Legend:

denumire / denomination

nr. cabluri / number of cables

poz. km / location

denumire / denomination

nr. stalp / pole ID

poz. km / location

denumire / denomination

nr. macaz / point ID

poz. km / location

Cabluri	—	Cables
Subtraversare in tub de PVC	▭	Rail undercrossing in PVC tube
Cutie distributie	1KX	Distribution box
Dispozitiv electric	Ⓜ	Eletrical operating device
Dispozitiv manual	◇	Manual operating device
Post transformare	⊖	Transformer post
Cutie aparataj	PA106	Equipment box
Cod identificare cablu	W101, W103......	Cable ID
Numar separator si stalpul pe care este montat	Q4Y LC180	Disconnector number and pole on which is mounted

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

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	11.2011	
Aprobat Approved	Coordonator Secţiune 1 Section 1 Coordinator	C. Gambelli	11.2011	
Verificat Checked	Expert Verificator Checking Expert	G. Buffarini	11.2011	

SUBCONTRACTANT / SUBCONTRACTOR

AREX COMPANY

Aprobat Approved	Responsabil Subcontractant Subcontractor Responsible	A.Stanciu - Dinulescu	11.2011	
Întocmit Elaborated	Proiectant Designer	M. Priporeanu	11.2011	

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:
D.E. / E.D.

Denumire desen / Drawing Title :

Stația c.f FELDIOARA/ FELDIOARA railway station
Plan trasee cabluri exterioare / Plan for outdoor cable routes

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

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