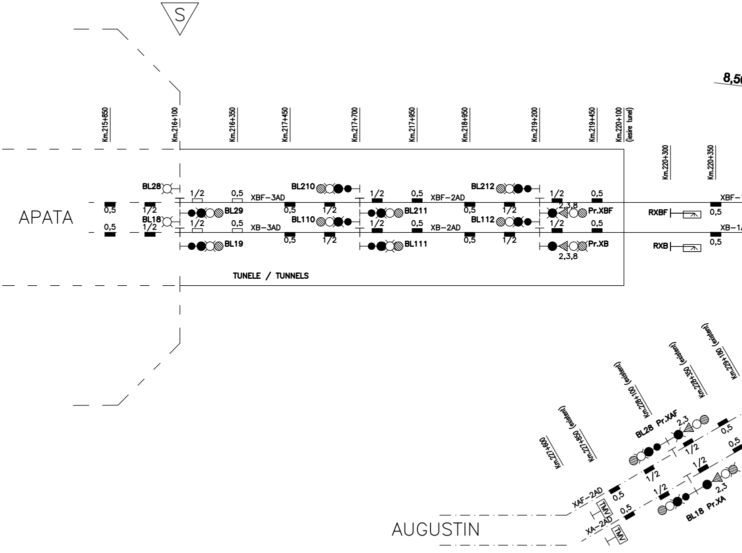
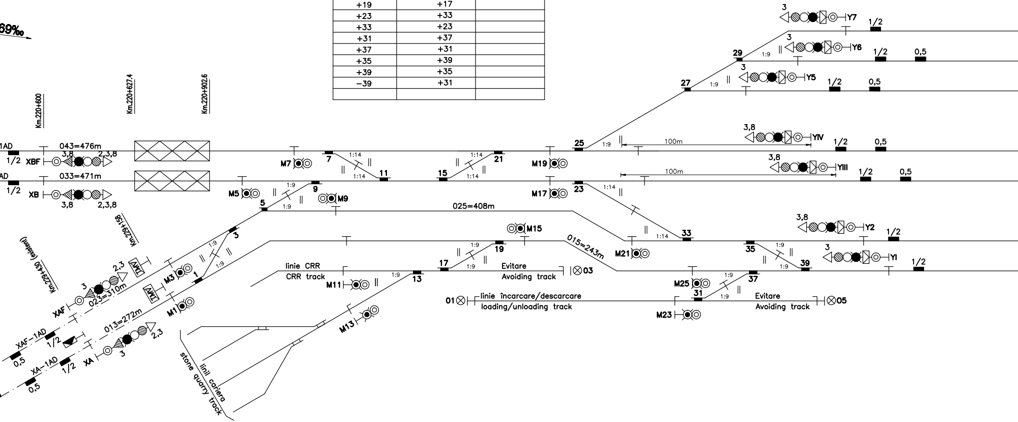
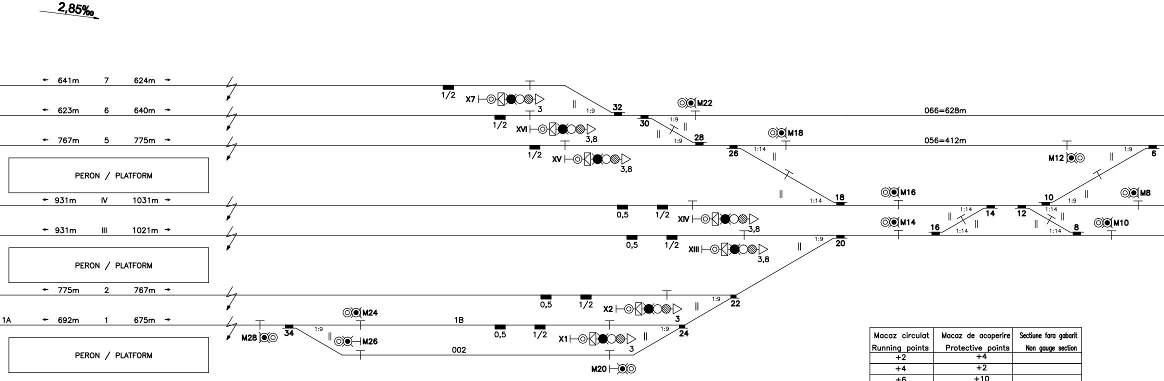


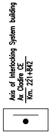
S
Km.215+850
Km.216+100
Km.216+350
Km.217+450
Km.217+700
Km.217+950
Km.218+950
Km.219+200
Km.219+450
Km.220+100 (iesire tunel)
Km.220+300
Km.220+350
8,5
APATA
BL28
BL18
BL29
BL19
BL210
BL110
BL211
BL111
BL212
BL112
Pr.XBF
Pr.XB
2,3,8
2,3,8
XBF-3AD
XB-3AD
XBF-2AD
XB-2AD
XBF-
XB-1
RXBF
RXB
1/2
0,5
TUNELE / TUNNELS
Km.227+600
Km.227+850 (existent)
Km.228+100 (existent)
Km.228+350 (existent)
Km.229+180 (existent)
BL28 Pr.XAF
BL18 Pr.XA
2,3
2,3
XAF-2AD
XA-2AD
TMV
TMV
AUGUSTIN

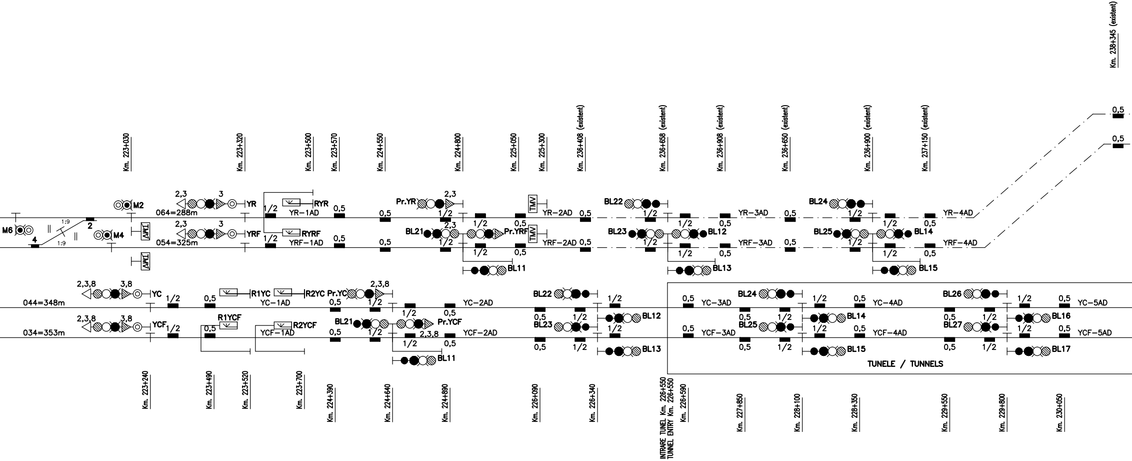
Macaz circulat Running points	Macaz de acoperire Protective points	Sectiune fara gabarit Non gauge section
+1	+3	
−1	+19	
+3	+1	
+5	+9	
+9	+5	
+7	+11	
−7	+21	
+11	+7	
+15	+21	
+21	+15	
−21	+7	
+17	+19	
+19	+17	
+23	+33	
+33	+23	
+31	+37	
+37	+31	
+35	+39	
+39	+35	
−39	+31	

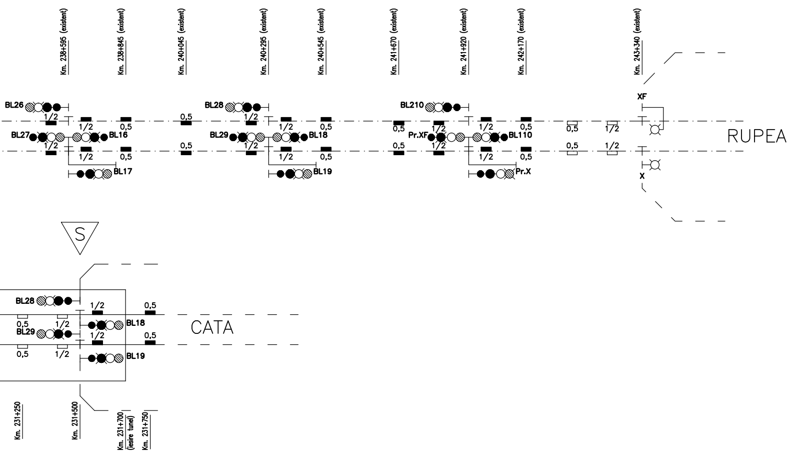

69‰
Km.220+600
Km.220+627,4
Km.220+902,6
Km.219+158
Km.219+430 (existent)
1AD
1/2
AD
1/2
043=476m
033=471m
XBF
XB
3,8
2,3,8
3,8
2,3,8
XAF
3
2,3
023=310m
XAF-1AD
1/2
0,5
XA
3
2,3
013=272m
XA-1AD
1/2
0,5
M1
M3
M5
M7
M9
M11
M13
M15
M17
M19
M21
M23
M25
1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
31
33
35
37
39
1:9
1:14
025=408m
015=243m
linie CRR
CRR track
Evitare
Avoiding track
03
01
linie încarcare/descarcare
loading/unloading track
05
linii cariera
stone quarry track
Y7
Y6
Y5
YIV
YIII
Y2
YI
3
3,8
1/2
0,5
100m


2,85‰
641m 7 624m
623m 6 640m
767m 5 775m
PERON / PLATFORM
931m IV 1031m
931m III 1021m
PERON / PLATFORM
775m 2 767m
1A 692m 1 675m
PERON / PLATFORM
X7
XVI
XV
XIV
XIII
X2
X1
M8
M10
M12
M14
M16
M18
M20
M22
M24
M26
M28
1/2
0,5
3
3,8
1:9
1:14
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
1B
002
066=628m
056=412m

Macaz circulat Running points	Macaz de acoperire Protective points	Sectiune fara gabarit Non gauge section
+2	+4	
+4	+2	
+6	+10	
+8	+6	
+10	+6	
+8	+12	
+12	+8	
−8	+16	
+14	+16	
+16	+14	
−16	+8	
+18	+26	
+26	+18	
+28	+30	
+30	+28	


Axis of Interlocking System building
Ax. Cladire CE
Km. 221+842


Km. 238+345 (existent)
Km. 223+030
Km. 223+320
Km. 223+500
Km. 223+570
Km. 224+550
Km. 224+800
Km. 225+050
Km. 225+300
Km. 236+408 (existent)
Km. 236+658 (existent)
Km. 236+908 (existent)
Km. 236+650 (existent)
Km. 236+900 (existent)
Km. 237+150 (existent)
M6
4
2
1:9
1:9
M2
M4
2,3
3
YR
064=288m
YRF
054=325m
RYR
RYRF
YR-1AD
YRF-1AD
1/2
0,5
Pr.YR
Pr.YRF
BL21
BL11
TMV
YR-2AD
YRF-2AD
BL22
BL23
BL12
BL13
YR-3AD
YRF-3AD
BL24
BL25
BL14
BL15
YR-4AD
YRF-4AD
2,3,8
3,8
YC
044=348m
YCF
034=353m
R1YC
R2YC
R1YCF
R2YCF
YC-1AD
YCF-1AD
Pr.YC
Pr.YCF
YC-2AD
YCF-2AD
BL21
BL11
BL22
BL23
BL12
BL13
YC-3AD
YCF-3AD
BL24
BL25
BL14
BL15
YC-4AD
YCF-4AD
BL26
BL27
BL16
BL17
YC-5AD
YCF-5AD
TUNELE / TUNNELS
Km. 223+240
Km. 223+490
Km. 223+520
Km. 223+700
Km. 224+390
Km. 224+640
Km. 224+890
Km. 226+090
Km. 226+340
INTRARE TUNEL Km. 226+550
TUNNEL ENTRY Km. 226+550
Km. 226+590
Km. 227+850
Km. 228+100
Km. 228+350
Km. 229+550
Km. 229+800
Km. 230+050


Km. 238+595 (existent)
Km. 238+845 (existent)
Km. 240+045 (existent)
Km. 240+295 (existent)
Km. 240+545 (existent)
Km. 241+670 (existent)
Km. 241+920 (existent)
Km. 242+170 (existent)
Km. 243+340 (existent)
BL26
BL27
BL16
BL17
BL28
BL29
BL18
BL19
BL210
Pr.XF
BL110
Pr.X
XF
X
1/2
0,5
RUPEA
S
BL28
BL29
BL18
BL19
CATA
Km. 231+250
Km. 231+500
Km. 231+700 (iesire tunel)
Km. 231+750

LEGENDA–SYMBOLS

SEMNAL DE CIRCULATIE PE CATARG
MAIN SIGNAL ON MAST

FOC GALBEN, VERDE, ROSU, ALB, ALBASTRU, INDICATOR CIRCULATIE PE STANGA
YELLOW, GREEN, RED, WITHE, BLUE, TRAFFIC ON LEFT INDICATOR LAMP

INDICATOR CIRCULATIE PE STANGA SI INDICATOR DE DIRECTIE
TRAFFIC ON LEFT INDICATOR AND DIRECTION INDICATOR LAMP

INDICATOARE DE VITEZA
SPEED AND PRESPEED INDICATORS

TRECERE LA NIVEL
LEVEL CROSSING (LC)

SEMNAL DE MANEVRA PITIC/PE CATARG
SHUNTING SIGNAL ON GROUND / MAST

SEMIBARIERA AUTOMATA CU SEMNAL RUTIER LA TN
LEVEL CROSSING HALFBARRIERS WITH ROAD SIGNAL

SEMNAL RUTIER LA TN
LEVEL CROSSING ROAD SIGNAL

OPRITOR
DEAD END

1/2 0,5 INDUCTOR INDUSI 500Hz SAU 1000/2000Hz
500Hz OR 1000/2000Hz INDUSI INDUCTOR

MARCA DE SIGURANTA
FOUL POINT

LINIE ELECTRIFICATA
ELECTRIFIED RAILWAY

SEMNAL BLA CU REPER DE AVARIE LA TN
ABL SIGNAL WITH FIX DAMAGE INDICATOR FOR LC

SEMNAL AVARIE LA TN
WARNING SIGNAL BY LC

MACAZ SIMPLU CENTRALIZAT
CENTRALIZED SINGLE POINT

MACAZ DUBLU CENTRALIZAT
CENTRALIZED DOUBLE POINT

MACAZ NECENTRALIZAT
UNCENTRALIZED POINT

SABOT DE DERAIERE
DERAILER

JOANTE IZOLANTE
INSULATED JOINTS

JOANTA IZOLANTA FARA GABARIT
GAUGELESS INSULATED JOINT

INDICATOR DE AMPLASARE SEMNAL PE STANGA
INDICATOR FOR LEFT SIGNAL

A INDICATOR "ASTEAPTA"
INDICATOR "WAITING"

S GRANITA INSTALATIEI DE CENTRALIZARE ELECTRONICA
ELECTRONIC INTERLOCKING BORDER

SEMNAL REPETITOR
REPEATER SIGNAL

POD METALIC
BRIDGE

SEMNAL BLA DE TRECERE PE CONSOLA
ABL SIGNAL ON BRACKET

TMV TMV REPER INCEPUT SECTIE DE CIRCULATIE CU TMV
REPER SFARSIT SECTIE DE CIRCULATIE CU TMV
INDICATOR FOR THE BEGINNING OF SECTION WITH MSL
INDICATOR FOR THE END OF SECTION WITH MSL

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

CFR

C.N.C.F. "C.F.R." - S.A.

CLIENT / CLIENT

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	12.12.2011	
Aprobat Approved	Coordonator Secţiune 1 Section 1 Coordinator	C. Gambelli	12.12.2011	
Verificat Checked	Expert Cheie Key Expert	P. Amodio	12.12.2011	

SUBCONTRACTANT / SUBCONTRACTOR

AREX COMPANY

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A. Stanciu - Dinulescu	12.12.2011	
Întocmit Elaborated	Proiectant Designer	ing. Juganaru Adriana	12.12.2011	

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:
P.Th. / T.D.

Denumire desen / Drawing Title :

Statia / Station RACOS
Schita statiei cu semnalizarea
Signaling sketch

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

E A 5 1   0 1   C   1 1   U X   S E   0 1   1   2   0 0 1   2

1470x297=0.44mp