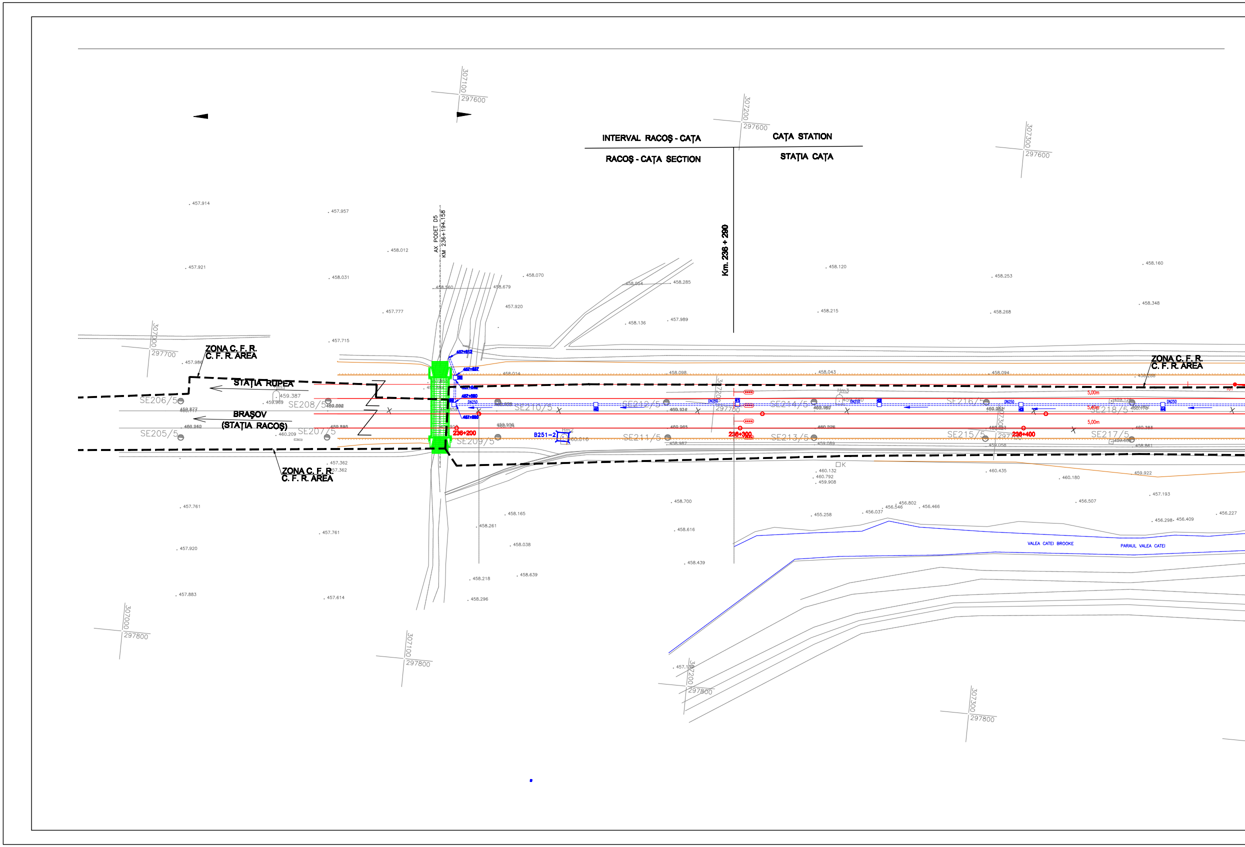
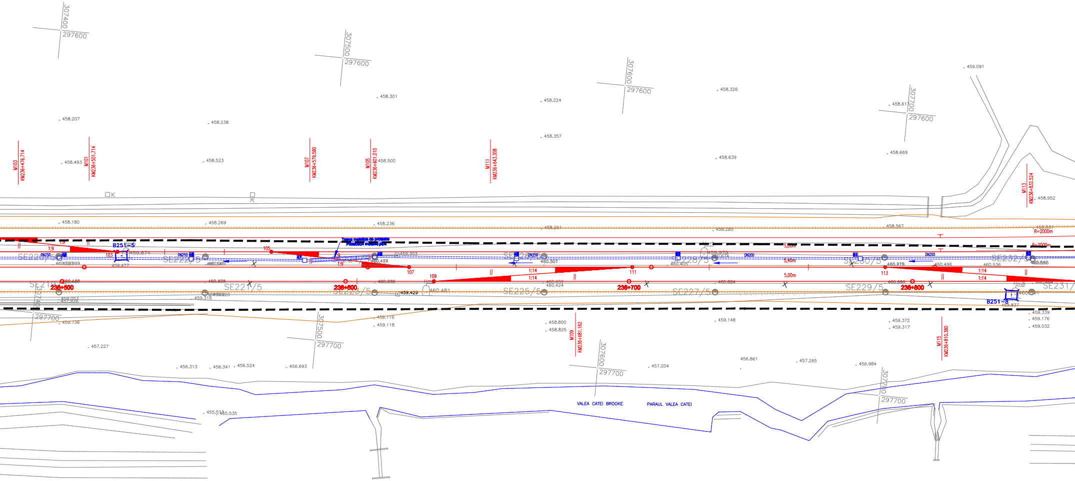

INTERVAL RACOȘ - CAȚA
RACOȘ - CAȚA SECTION
CAȚA STATION
STAȚIA CAȚA
Km. 236 + 290
AX PODET D5
KM 236+194.158
ZONA C. F. R.
C. F. R. AREA
STAȚIA RUPEA
BRAȘOV
(STAȚIA RACOȘ)
SE205/5
SE206/5
SE207/5
SE208/5
SE209/5
SE210/5
SE211/5
SE212/5
SE213/5
SE214/5
SE215/5
SE216/5
SE217/5
SE218/5
236+200
236+300
236+400
B251-2
Hm2
Hm3
DN250
5,00m
VALEA CATEI BROOKE
PARAUL VALEA CATEI
307000
297700
307100
297600
307200
297600
307300
297600
307000
297800
307100
297800
307200
297800
307300
297800
457.914
457.957
458.012
457.921
458.031
457.777
457.715
457.986
459.387
459.969
460.209
457.362
457.761
457.920
457.883
457.614
458.070
458.679
457.920
458.054
458.285
458.136
457.989
458.014
458.098
458.043
458.094
458.120
458.215
458.253
458.268
458.160
458.348
458.165
458.261
458.038
458.218
458.639
458.296
458.700
458.616
458.439
460.132
460.792
459.908
460.435
460.180
459.922
455.258
456.037
456.546
456.802
456.466
456.507
457.193
456.298
456.409
456.227

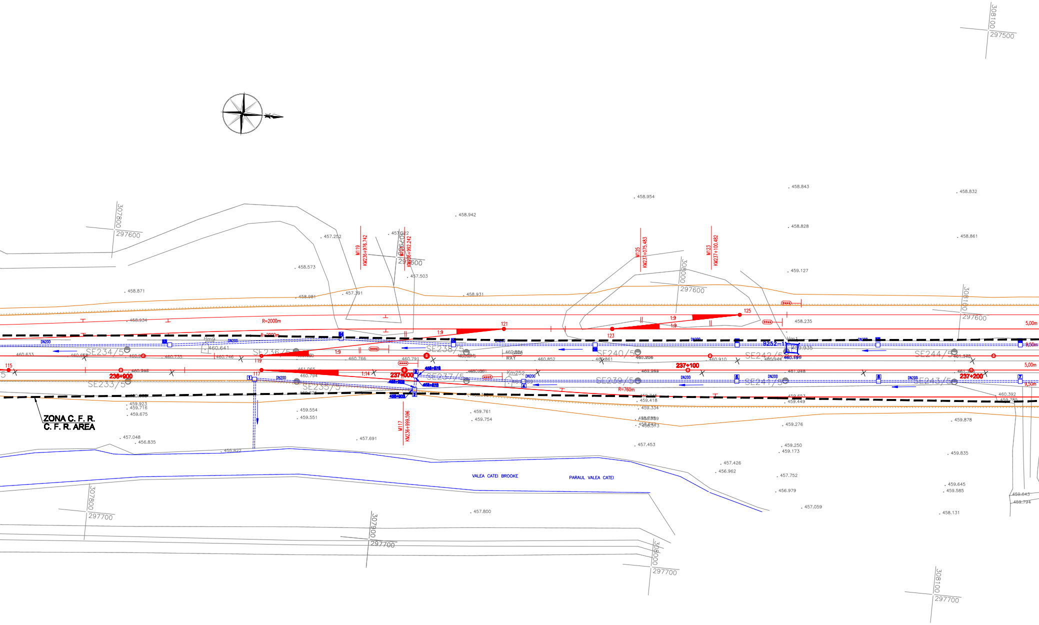

307400 297600
307500 297600
307600 297600
307700 297600
M103 KM236+478.714
M101 KM236+501.714
M107 KM236+579.580
M105 KM236+601.010
M111 KM236+643.308
M113 KM236+832.524
M109 KM236+681.162
M115 KM236+810.380
B251+5
B251+8
236+500
236+600
236+700
236+800
SE219/5
SE220/5
SE221/5
SE222/5
SE223/5
SE225/5
SE227/5
SE228/5
SE229/5
SE230/5
SE231/5
SE232/5
101
103
105
107
109
111
113
1:9
1:14
R=2000m
5,00m
5,40m
DN250
DN200
307400 297700
307500 297700
307600 297700
307700 297700
VALEA CATEI BROOKE
PARAUL VALEA CATEI
307400 297800
307500 297800
307600 297800

TABEL COORDONATE BORNE RETEA
MILLE STONE COORDINATES TABLE

nr.borna mille stone no.	X [m]	Y [m]	Z [m]
B251.2	297716.726	307148.057	459.51
B251.5	297677.036	307426.932	459.46
B251.8	297660.164	307742.802	459.84
B252.1	297618.423	308041.998	460.19
B252.4	297601.439	308343.843	460.27

TABEL CARACTERISTICI APARATE DE CALE PROIECTATE CAP X
CHARACTERISTICS DESIGNED TURNOUTS TABLE X END

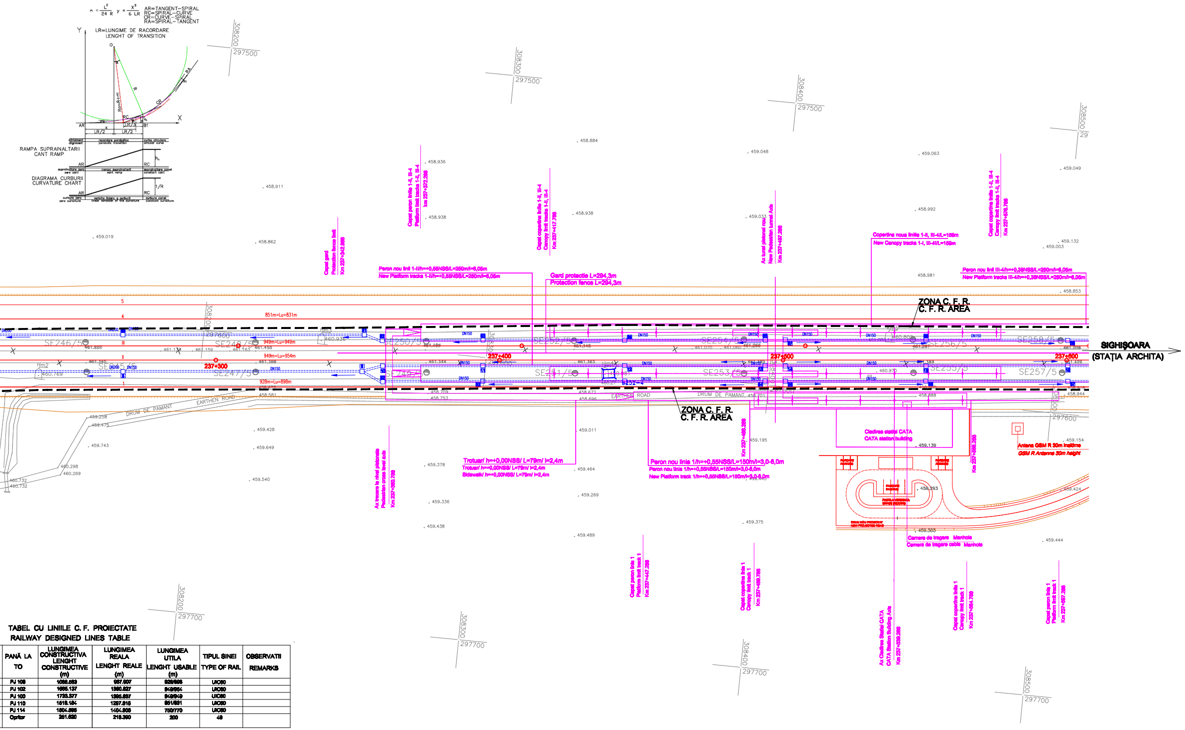
NO NR. CRT.	NO NR. P.G.	DEVIATIE DEVIATION		TIP TYPE	Tg.	R RADIUS (m)	TIPUL ACELOR TYPE OF SWITCH	PROVENIENTA COMING FROM		COORDONATE COORDINATES	
		STG. LEFT	DR. RIGHT					NOI NEW	REFOLOSITI DISMANTLING	X	Y
1	101		●	60	1:9	300	flexibil	•		297676.168	307382.189
2	103		●	60	1:9	300	flexibil	•		297675.783	307427.482
3	105		●	60	1:9	300	flexibil	•		297670.498	307481.470
4	107		●	60	1:9	300	flexibil	•		297671.140	307530.365
5	109	●		60	1:14	760	flexibil	•		297675.266	307539.537
6	111	●		60	1:14	760	flexibil	•		297663.473	307608.719
7	113		●	60	1:14	760	flexibil	•		297654.786	307697.511
8	115		●	60	1:14	760	flexibil	•		297652.945	307767.866
9	117		●	60	1:14	760	flexibil	•		297644.258	307856.458
10	119	●		60	1:9	300	flexibil	•		297639.281	307855.971
11	121	●		60	1:9	300	flexibil	•		297621.501	307940.141
12	123	●		60	1:9	300	flexibil	•		297617.777	307978.199
13	125	●		60	1:9	300	flexibil	•		297608.419	308022.498


308100
297500
307800
297600
M119
KM236+976.742
M120
KM236+992.242
307900
297600
M125
KM237+075.483
M123
KM237+100.482
308000
297600
308100
297600
R=2000m
R=2000m
121
123
125
1:9
1:9
1:9
1:9
1:14
115
117
119
236+900
237+000
237+100
237+200
R=760m
5,00m
5,00m
9,50m
9,50m
DN200
Hm9
Hm1
Km252
RXY
B252-1
SE233/5
SE234/5
SE235/5
SE236/5
SE237/5
SE238/5
SE239/5
SE240/5
SE241/5
SE242/5
SE243/5
SE244/5
M117
KM236+999.596
ZONA C. F. R.
C. F. R. AREA
VALEA CATEI BROOKE
PARAUL VALEA CATEI
307800
297700
307900
297700
308000
297700
308100
297700

TABEL CURBE PROIECTATE - LINII ABATERE CAP X
DESIGNED CURVES - ON DEVIATION LINES TABLE X END

NR.CURBA NO.CURVE	V SPEED (km/h)	ELEMENTE ELEMENTS					h_n	COORDONATE COORDINATES					
								V		Ti		Te	
		U	R	T	B	C	(mm)	X	Y	X	Y	X	Y
V13.01	105	197.5556	2000	36.401	0.369	76.793	0	297636.800	307715.677	297642.540	307715.677	297633.596	307792.141
V13.02	105	197.5556	2000	36.401	0.369	76.793	0	297643.767	307754.677	297647.506	307716.466	297636.563	307792.723
V13.03	105	197.5556	2000	36.401	0.369	76.793	0	297624.326	307859.916	297629.530	307821.872	297620.587	307898.136
V13.04	105	197.5556	2000	36.401	0.369	76.793	0	297629.293	307860.501	297634.497	307822.454	297625.554	307898.720
V13.05	65	195.4605	760	27.105	0.483	54.193	0	297640.761	307989.753	297641.472	307962.655	297636.121	308016.732

NO NR. CRT.	DENUMIREA LINIEI C.F. DENOMINATION OF THE RAILWAY LINE	DE LA FROM	PRIN BY
1	Linia 1 / Line 1	PJ117	112
2	Linia II / Line II	PJ109	115, 117, 108, 104
3	Linia III / Line III	PJ107	111, 113, 119, 110, 106
4	Linia 4 / Line 4	PJ103	105, 121, 123, 114
5	Linia 5 / Line 5	PJ101	125
6	Linie asteptare locomotive	PJ112	-------


$m = \frac{L^2}{24\,R}$ $y = \frac{X^3}{6\,LR}$
AR=TANGENT–SPIRAL
RC=SPIRAL–CURVE
CR=CURVE–SPIRAL
RA=SPIRAL–TANGENT
LR=LUNGIME DE RACORDARE
LENGHT OF TRANSITION
Y
X
O
R
Ro=R+m
RC
CR
RA
AR
B1
LR/2
LR/3
aliniament
alignment
racordare parabolica
parabolic transition
curba circulara
circular curve
RAMPA SUPRAINALTARII
CANT RAMP
supraináltare zero
zero cant
rampa supraináltarii
cant ramp
supraináltare const
constant cant
DIAGRAMA CURBURII
CURVATURE CHART
1/R
curbura zero
zero curvature
variatia liniara a curburii
linear variation of the curvature
curbura const
constant curvature
Capat gard
Protection fence limit
Km 237+342.986
Capat peron liniile 1-II, III-4
Platform limit tracks 1-II, III-4
Km 237+372.286
Capat copertina liniile 1-II, III-4
Canopy limit tracks 1-II, III-4
Km 237+417.786
Ax tunel pietonal nou
New Pedestrian tunnel Axis
Km 237+497.286
Copertina noua liniile 1-II, III-4/L=159m
New Canopy tracks 1-I, III-4I/L=159m
Capat copertina liniile 1-II, III-4
Canopy limit tracks 1-II, III-4
Km 237+576.786
Peron nou linii 1-II/h=+0,55NSS/L=250m/l=6,05m
New Platform tracks 1-II/h=+0,55NSS/L=250m/l=6,05m
Gard protectie L=294,3m
Protection fence L=294,3m
Peron nou linii III-4/h=+0,38NSS/L=250m/l=6,05m
New Platform tracks III-4/h=+0,38NSS/L=250m/l=6,05m
ZONA C. F. R.
C. F. R. AREA
851m=Lu=831m
949m=Lu=949m
949m=Lu=954m
928m=Lu=898m
237+300
237+400
237+500
237+600
SIGHIȘOARA
(STAȚIA ARCHITA)
SE246/5
SE248/5
SE250/5
SE252/5
SE254/5
SE256/5
SE258/5
SE245/5
SE247/5
SE249/5
SE251/5
SE253/5
SE255/5
SE257/5
DN150
DN200
EARTHEN ROAD
DRUM DE PAMANT
Trotuar/ h=+0,00NSS/ L=79m/ l=2,4m
Sidewalk/ h=+0,00NSS/ L=79m/ l=2,4m
Peron nou linia 1/h=+0,55NSS/L=150m/l=3,0-6,0m
New Platform track 1/h=+0,55NSS/L=150m/l=3,0-6,0m
Km 237+488.286
Cladirea statiei CATA
CATA station building
Km 237+568.286
Antena GSM R 30m inaltime
GSM R Antenna 30m height
Camera de tragere Manhole
Camera de tragere cablu Manhole
Ax trecere la nivel pietonala
Pedestrian cross level axis
Km 237+380.786
Capat peron linia 1
Platform limit track 1
Km 237+447.286
Capat copertina linia 1
Canopy limit track 1
Km 237+489.786
Ax Cladirea Statiei CATA
CATA Station Building Axis
Km 237+539.286
Capat copertina linia 1
Canopy limit track 1
Km 237+584.786
Capat peron linia 1
Platform limit track 1
Km 237+597.286
308200
308300
308400
308500
297500
297600
297700

TABEL CU LINIILE C. F. PROIECTATE
RAILWAY DESIGNED LINES TABLE

PANĂ LA TO	LUNGIMEA CONSTRUCTIVA LENGHT CONSTRUCTIVE (m)	LUNGIMEA REALA LENGHT REALE (m)	LUNGIMEA UTILA LENGHT USABLE (m)	TIPUL SINEI TYPE OF RAIL	OBSERVATII REMARKS
PJ 108	1088.583	957.907	928/898	UIC60	
PJ 102	1666.137	1380.827	949/954	UIC60	
PJ 100	1735.377	1395.837	949/949	UIC60	
PJ 110	1518.184	1297.518	851/831	UIC60	
PJ 114	1504.898	1404.905	750/770	UIC60	
Opritor	251.620	215.390	200	49	

1	2

LEGENDA
LEGEND

Ax linie c.f. existent
Axis of existing railway line

Ax linie c.f. demontat
Demounted axis line of railway line

Aparate de cale existente
Existing turnouts

Aparate de cale demontate
Demounted turnouts

Name
Level
Borne de retea
Benchmarks

Ax linie c.f. proiectat
Axis of designed railway line

Aparate de cale proiectate
Designed turnouts

Marca proiectata
Designed marck

Semnal proiectat
Designed signal

Peron proiectat
Designed platform

Copertina proiectata
Designed canopy

Sant monolit de beton
Prefabricate concrete ditch

Dren longitudinal
Longitudinal drain

Ampriza sapatura/umplutura
Excavation/fillings at the work place of natural soil

Lucrari de consolidare
Consolidatio works

Lucrari de drumuri proiectate
Designed road works

D					
C					
B					
A					
Indice Index	Data Date	Modificare Modification/Revision	Proiectant Designer	Aprobat Consultant Approval Consultant	Aprobat CFR Approval CFR

GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANŢAT DE UNIUNEA EUROPEANĂ
EUROPEAN UNION FINANCED PROJECT

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. Lucca		
Aprobat Approved	Coordonator Secţiune 1 Section 1 Coordinator	C. Gambelli		
Verificat Checked	Expert Verificator Checking Expert	S. MENICHINI		

SUBCONTRACTANT / SUBCONTRACTOR

AREX COMPANY

Aprobat Approved	Responsabil Subcontractant Subcontractor Responsible	A.Stanciu - Dinulescu	11.2011	
Întocmit Elaborated	Proiectant Designer	F. Mihai	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:
P.Th. / T.D.

Denumire desen / Drawing Title :

Plan de situaţie - Haltă mişcare Caţa
Caţa Railway Halt - Track Layout on designed plan

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

EA51 01 C 13 L8 SL 00 7 0 001 2