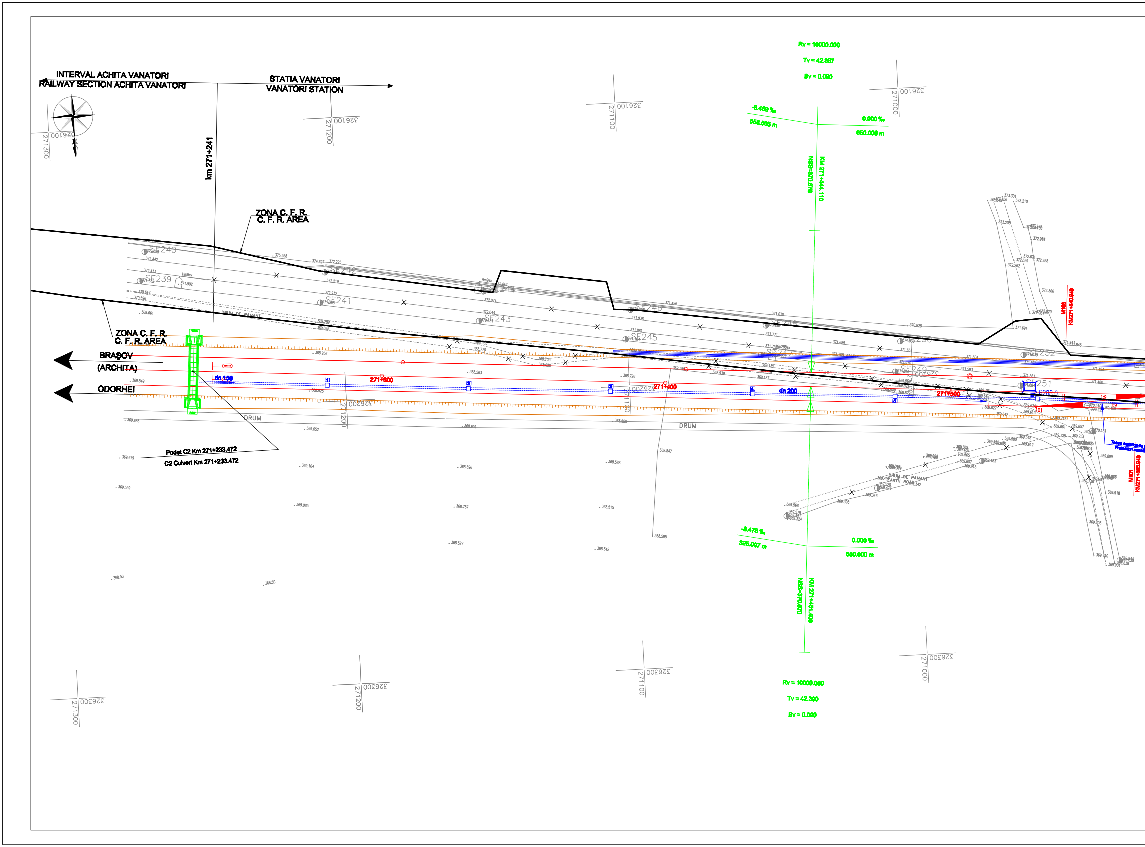
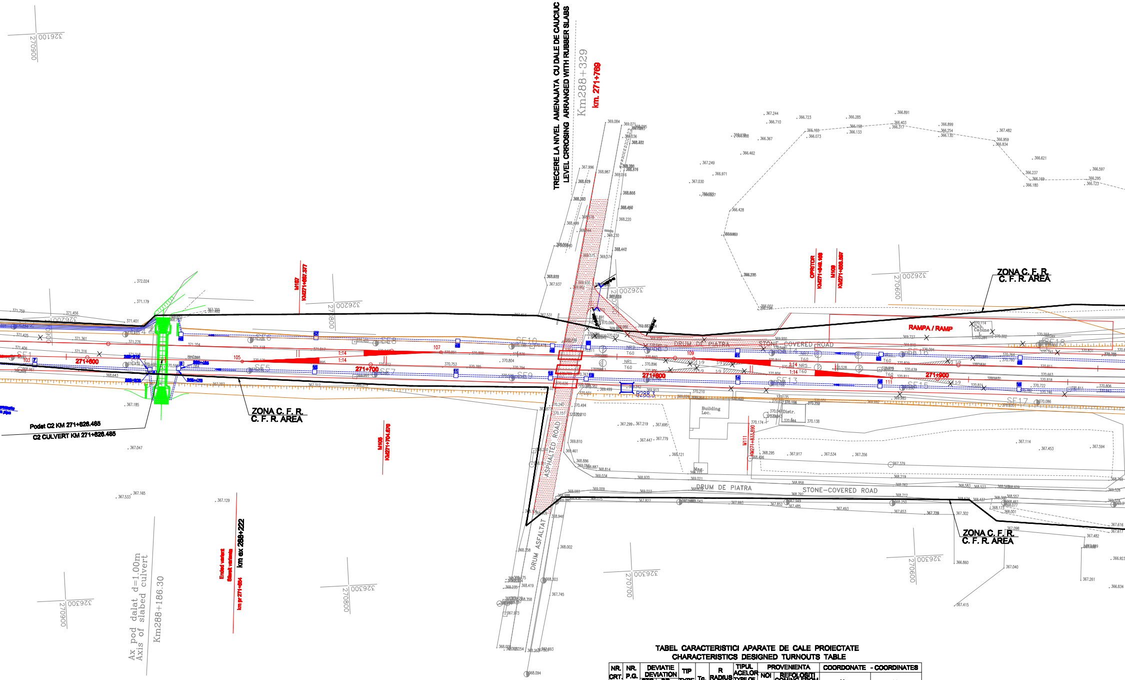

INTERVAL ACHITA VANATORI
RAILWAY SECTION ACHITA VANATORI
STATIA VANATORI
VANATORI STATION
km 271+241
ZONA C. F. R.
C. F. R. AREA
ZONA C. F. R.
C. F. R. AREA
BRAŞOV
(ARCHITA)
ODORHEI
Podet C2 Km 271+233.472
C2 Culvert Km 271+233.472
dn 150
dn 200
271+300
271+400
271+500
DRUM
DRUM
DRUM DE PAMANT
DRUM DE PAMANT
EARTH ROAD
SE239
SE240
SE241
SE242
SE243
SE244
SE245
SE246
SE247
SE248
SE249
SE250
SE251
SE252
B288.0
1:9
1:9
101
M100
KM271+540.940
M101
KM271+560.940
Rv = 10000.000
Tv = 42.387
Bv = 0.090
-8.469 ‰
558.505 m
0.000 ‰
650.000 m
NSS=370.870
KM 271+444.110
-8.478 ‰
325.097 m
0.000 ‰
650.000 m
NSS=370.870
KM 271+451.408
Rv = 10000.000
Tv = 42.390
Bv = 0.090
326100
271300
326100
271200
326100
271100
326100
271000
326200
271200
326200
271100
326200
326300
271300
326300
271200
326300
271100
326300
271000


TRECERE LA NIVEL AMENAJATA CU DALE DE CAUCIUC
LEVEL CRROSING ARRANGED WITH RUBBER SLABS
Km288+329
km. 271+769
ZONA C. F. R.
C. F. R. AREA
RAMPA / RAMP
DRUM DE PIATRA
STONE–COVERED ROAD
DRUM ASFALTAT
ASPHALTED ROAD
Podet C2 KM 271+626.465
C2 CULVERT KM 271+626.465
M107 KM271+667.377
M108 KM271+704.670
OPRITOR KM271+849.169
M109 KM271+865.567
M111 KM271+833.890
271+600
271+700
271+800
271+900
Ax pod dalat d=1.00m
Axis of slabed culvert
Km288+186.30
km ex 288+222
km pr 271+654
B288.3
Building Loc.
Cab. Cabine
Distr.
Mag.
NR1
NR5
T60
1:14
1:9
103
105
107
109
111
SE5
SE7
SE9
SE13
SE15
SE17
326100
326200
326300
270600
270700
270800
270900

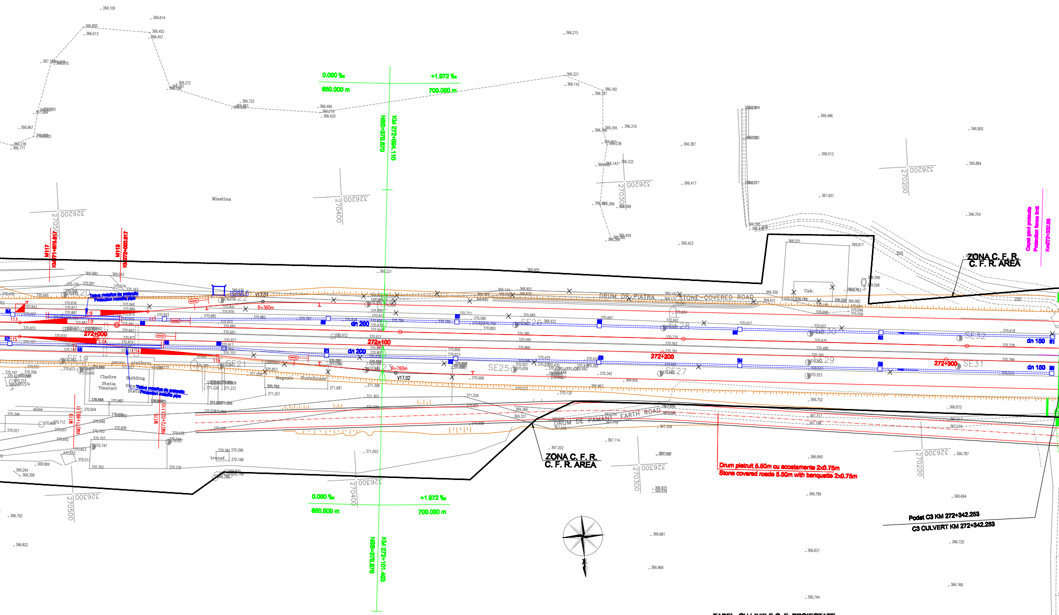
TABEL CARACTERISTICI APARATE DE CALE PROIECTATE
CHARACTERISTICS DESIGNED TURNOUTS TABLE

NR. CRT. NO	NR. P.G. NO	DEVIATIE DEVIATION		TIP TYPE	Tg.	R RADIUS (m)	TIPUL ACELOR TYPE OF SWITCH	PROVENIENTA		COORDONATE - COORDINATES	
		STG. LEFT	DR. RIGHT					NOI NEW	REFOLOSITI COMING FROM DISMANTLING	X	Y
1	101	●		60	1:9	300	flexibil	•		270957.1721	326214.5563
2	103	●		60	1:9	300	flexibil	•		270911.9212	326213.0520
3	105	●		60	1:14	760	flexibil	•		270833.4230	326219.0595
4	107	●		60	1:14	760	flexibil	•		270763.2457	326219.4723
5	109		●	60	1:14	760	flexibil	•		270674.2664	326226.3142
6	111		●	60	1:14	760	flexibil	•		270604.5780	326236.5675
7	113	●		60	1:9	300	flexibil	•		270515.5373	326238.5242
8	115		●	60	1:14	760	flexibil	•		270515.9207	326243.5095
9	117		●	60	1:9	300	flexibil	•		270470.2664	326236.9599
10	119	●		60	1:14	760	flexibil	•		270446.5103	326253.5628

TABEL COORDONATE BORNE RETEA
MILLE STONE COORDINATES TABLE

nr.borna mille stone no.	X [m]	Y [m]	Z [m]
B288.0	270959.013	326207.545	370.96
B288.3	270696.405	326236.441	370.19
B288.6	270444.905	326230.994	370.02
B288.9	270141.947	326250.220	369.99

NR.CURBA CURVE NO.	VITEZA SPEED (km/h)
V17.01	45
V17.02	65


0.000 ‰
+1.972 ‰
650.000 m
700.000 m
NSS=370.670
KM 272+094.110
KM 272+101.403
Mlastina
ZONA C. F. R.
C. F. R. AREA
DRUM DE PIATRA
STONE-COVERED ROAD
DRUM DE PAMANT
EARTH ROAD
Cab.
ZID
Capat gard protectie
Protection fence limit
Km272+352.65
M117
KM271+973.817
M119
KM272+000.817
M119
KM271+993.11
M115
KM272+033.110
272+000
272+100
272+200
272+300
R=360m
R=760m
V17.01
V17.02
dn 200
dn 150
Tub metalic de protectie
Protection metallic pipe
peron platform
Cladire Statia Vinatori
Building Vinatori Station
Magazie Storehouse
alee
transf.
SE19
SE20
SE21
SE22
SE23
SE25
SE26
SE27
SE28
SE29
SE30
SE31
SE32
113
115
117
119
1:9
1:14
Drum pietruit 5.50m cu acostamente 2x0.75m
Stone covered roads 5.50m with banquette 2x0.75m
Podet C3 KM 272+342.253
C3 CULVERT KM 272+342.253
270200
270300
270400
270500
326200
326300
326400

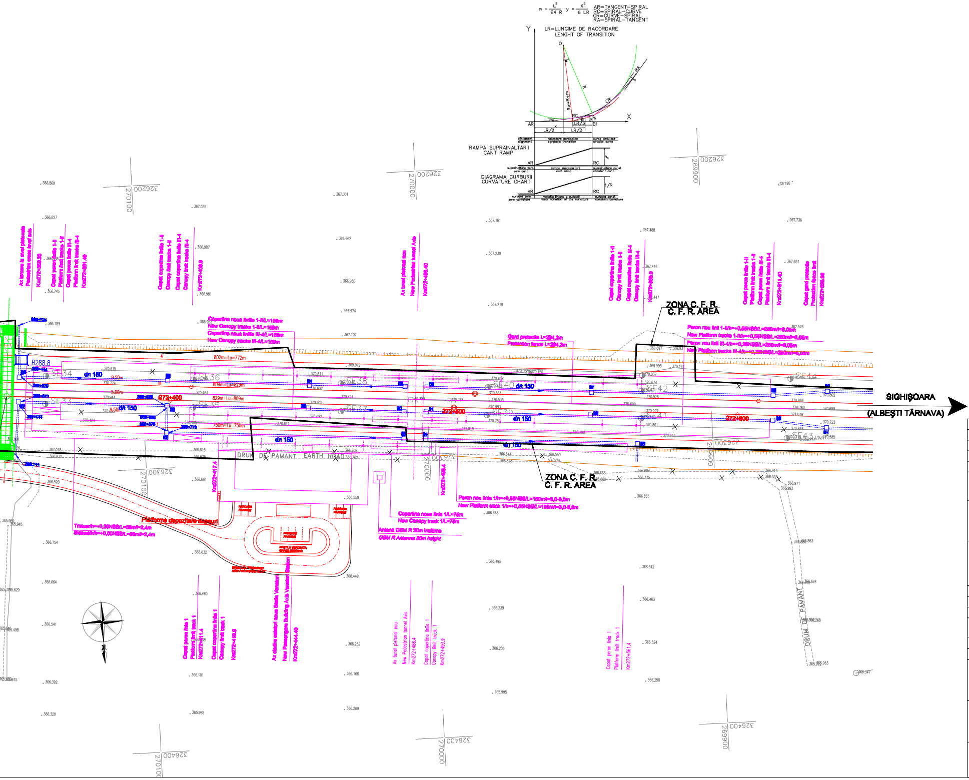
TABEL CURBE PROIECTATE - LINII ABATERE
DESIGNED CURVES - ON DEVIATION LINES TABEL

ELEMENTE - ELEMENTS					h_n (mm)	COORDONATE - COORDINATES					
						V		Ti		Te	
U	R	T	B	C		X	Y	X	Y	X	Y
2.9553	360	19.939	0.552	39.637	0	270429.5808	326235.8069	270449.4877	326236.2846	270409.8805	326237.1379
5.4604	760	27.108	0.483	54.194	0	270384.0409	326263.1806	270410.8826	326269.1516	270357.0124	326265.2597

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

NR. CRT. CURRENTT NO	DENUMIREA LINIEI C.F. DENOMINATION OF THE RAILWAY LINE	DE LA FROM	PRIN BY	PANA LA TO	LUNGIMEA CONSTRUCTIVA CONSTRUCTIVE LENGHT (m)	LUNGIMEA REALA REALE LENGHT (m)	LUNGIMEA UTILA USABLE LENGHT (m)	TIPUL SINEI TYPE OF RAIL	OBSERVATII REMARKS
1	Linia 1 / Line 1	PJ115	117,114	PJ 110	962.66	787.66	750/750	UIC60	
2	Linia II - Fir I / Line II -Throug I	PJ103	105,111,116,110,104	PJ 102	1607.86	1270.32	629/609	UIC60	
3	Linia III-Fir II/ Line III-Throug II	PJ107	109,113,112,106	PJ 100	1539.61	1236.30	609/629	UIC60	
4	Linia 4 / Line 4	PJ113	119	PJ 105	962.64	842.16	602/772	UIC60	
5	Linie utilaje/equipment storage line	PJ112	-----	Opritor/Buffer	251.62	218.39	200	49	
6	Linie rampa/Ramp line	PJ117	-----	Opritor/Buffer	252.13	191.76	180	49	

1	2


$n = \frac{L^2}{24\,R}$ $y = \frac{x^3}{6\,L\,R}$
AR=TANGENT-SPIRAL
RC=SPIRAL-CURVE
CR=CURVE-SPIRAL
RA=SPIRAL-TANGENT
LR=LUNGIME DE RACORDARE
LENGHT OF TRANSITION
RAMPA SUPRAINALTARII
CANT RAMP
DIAGRAMA CURBURII
CURVATURE CHART
Ax traversare la nivel pietonala
Pedestrian cross level axis
Km272+360.23
Capat peron linia 1-II
Platform limit tracks 1-II
Capat peron linia III-4
Platform limit tracks III-4
Km272+361.40
Capat copertina linia 1-II
Canopy limit tracks 1-II
Capat copertina linia III-4
Canopy limit tracks III-4
Km272+408.9
Ax tunel pietonal nou
New Pedestrian tunnel Axis
Km272+486.40
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
ZONA C. F. R.
C. F. R. AREA
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
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
Km272+611.40
Capat gard protectie
Protection fence limit
Km272+639.98
B288.8
SE34
SE33
SE36
SE35
SE38
SE37
SE40
SE39
SE42
SE41
SE44
SE43
dn 150
9.50m
5.00m
802m=Lu=772m
809m=Lu=829m
829m=Lu=809m
750m=Lu=750m
272+400
272+500
272+600
DRUM DE PAMANT EARTH ROAD
Km272+417.4
Km272+495.4
Platforma depozitare deseuri
Trotuar/h=+0,00NSS/L=56m/l=2,4m
Sidewalk/h=+0,00NSS/L=56m/l=2,4m
PARCARE
PARKING
Copertina noua linia 1/L=75m
New Canopy track 1/L=75m
Antena GSM R 30m inaltime
GSM R Antenna 30m height
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
Capat peron linia 1
Platform limit track 1
Km272+411.4
Capat copertina linia 1
Canopy limit track 1
Km272+418.9
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
DRUM DE PAMANT
SIGHIŞOARA
(ALBEŞTI TÂRNAVA)

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

SUBCONTRACTANT / SUBCONTRACTOR

Aprobat Approved	Responsabil Subcontractant Subcontractor Responsible	A.Stanciu - Dinulescu		
Întocmit Elaborated	Proiectant Designer	V. Gradin	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 :

Plan de situaţie - Staţia Vânători
Vânători station - Track Layout on designed plan

Codificare / Codification System								Scara / Scale 1:500	LOT / LOT	Nr. / No
EA51	01	C	17	L8	SL	00	9	0	001	2