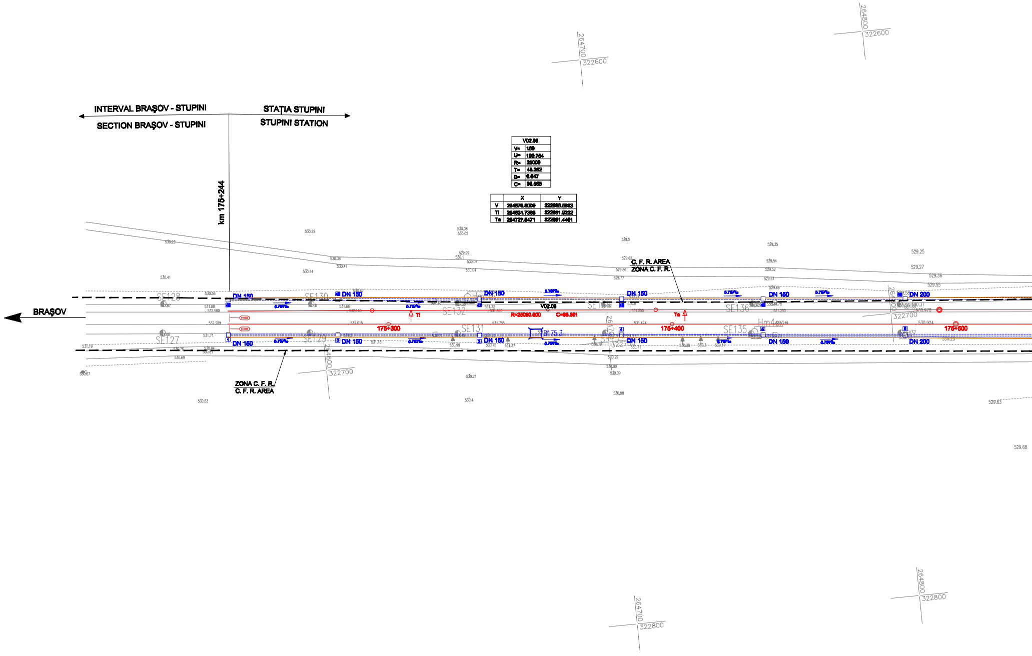
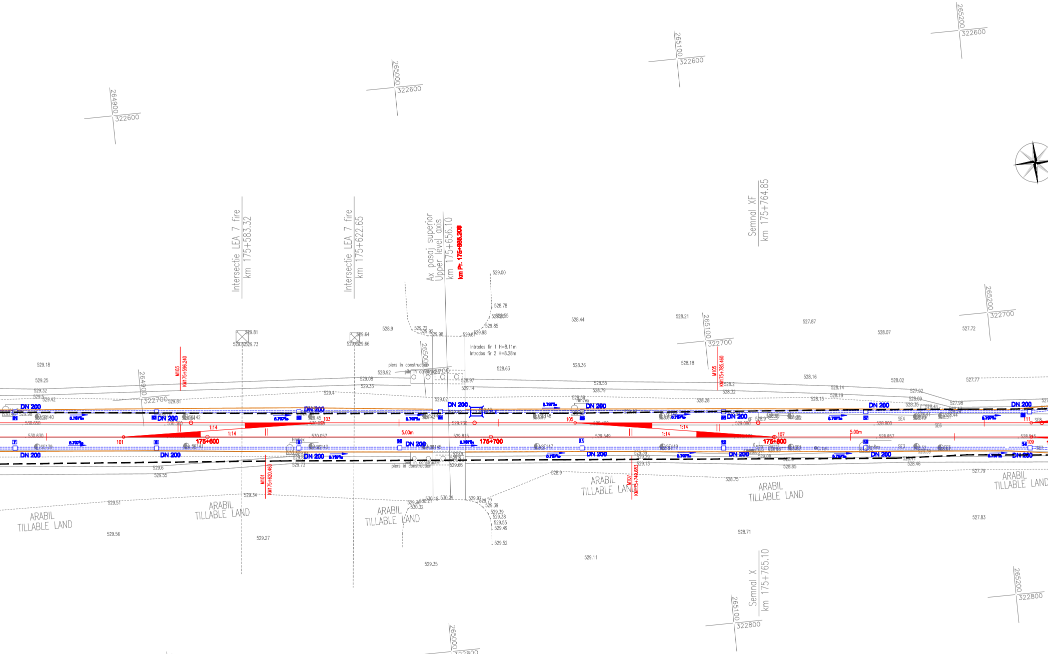

INTERVAL BRAŞOV - STUPINI
SECTION BRAŞOV - STUPINI
STAŢIA STUPINI
STUPINI STATION
km 175+244
BRAŞOV
C. F. R. AREA
ZONA C. F. R.
ZONA C. F. R.
C. F. R. AREA
DN 150
DN 200
V02.08
Ti
Te
R=25000.000
C=96.561
175+300
175+400
175+500
SE127
SE128
SE129
SE130
SE131
SE132
SE135
SE136
264700
322600
264800
322600
264600
322700
322800

V02.08	
V=	160
U=	199.754
R=	25000
T=	48.282
B=	0.047
C=	96.565

	X	Y
V	264679.8009	322686.6663
Ti	264631.7365	322681.9222
Te	264727.8471	322691.4401



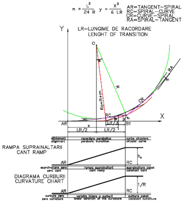
264900
322600
265000
322600
265100
322600
265200
322600
Intersectie LEA 7 fire
km 175+583.32
Intersectie LEA 7 fire
km 175+622.65
Ax pasaj superior
Upper level axis
km 175+656.10
km Pr. 175+685.208
Semnal XF
km 175+764.85
Introdos fir 1 H=8.11m
Introdos fir 2 H=8.28m
piers in construction
pile in construction
M103
KM175+596.240
M105
KM175+785.460
M101
KM175+620.463
M107
KM175+749.683
265100
322700
265200
322700
264900
322700
265000
322700
DN 200
175+600
175+700
175+800
101
103
105
107
109
111
1:14
5.00m
ARABIL
TILLABLE LAND
Semnal X
km 175+765.10
264900
322800
265000
322800
265100
322800
265200
322800

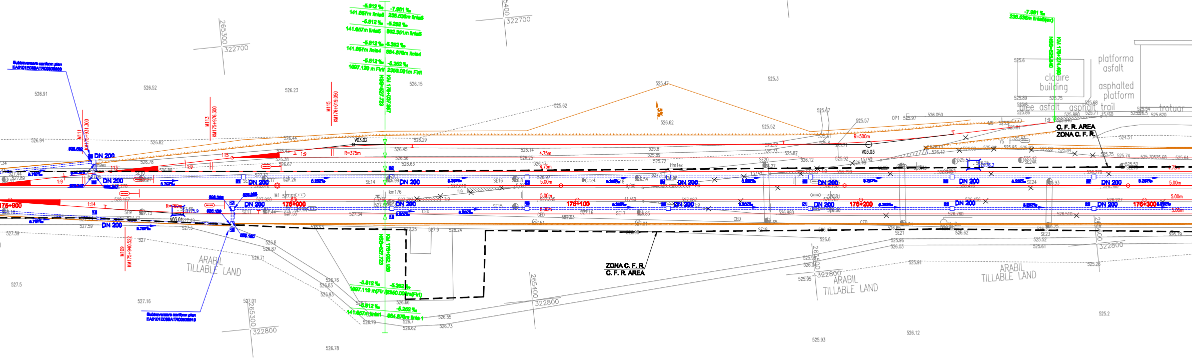
TABEL COORDONATE BORNE RETEA
MILLE STONE COORDINATES TABLE

nr.borne mille stone no.	X [m]	Y [m]	Z [m]
B175.3	322694.450	264674.734	531.05
B175.6	322716.703	265017.146	529.43
B175.9	322755.998	265278.774	527.80
B176.2	322768.016	265559.569	526.25
B176.4	322813.916	265795.823	524.99

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	1:14	760	flexibil	•		322713.0907	264892.4814
2	103	●		60	1:14	760	flexibil	•		322715.1490	264962.6295
3	105		●	60	1:14	760	flexibil	•		322724.1130	265051.3981
4	107		●	60	1:14	760	flexibil	•		322736.1207	265120.5415
5	109		●	60	1:14	760	flexibil	•		322745.2475	265210.9219
6	111	●		60	1:9	300	flexibil	•		322740.2729	265211.4189
7	113		●	60	1:9	300	flexibil	•		322739.8193	265256.6986
8	115		●	60	1:9	300	flexibil	•		322739.3864	265299.7098


$m = \frac{L^2}{24\ R}$ $y = \frac{X^3}{6\ LR}$
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/3
LR/2
LR/2
x
aliniament
alignment
racordare parabolica
parabolic transition
curba circulara
circular curve
RAMPA SUPRAINALTARII
CANT RAMP
supraînaltare zero
zero cant
rampa supraînaltarii
cant ramp
supraînaltare 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


265300
322700
265400
322700
265500
322700
265600
322700
-5.612 ‰
141.667m linia6
-7.061 ‰
236.536m linia6
802.361m linia5
584.670m linia4
1097.120 m FirI
2350.001m FirII
KM 176+027.987
NBR=527.722
KM 176+074.488
M111
KM175+931.300
M113
KM175+976.300
M115
KM176+019.050
M109
KM175+940.522
Subtraversare conform plan
DN 200
175+900
176+000
176+100
176+200
176+300
R=760m
R=375m
R=500m
V03.01
V03.02
V03.03
1:9
1:14
5.00m
4.75m
km176
ZONA C. F. R.
C. F. R. AREA
C. F. R. AREA
ZONA C. F. R.
ARABIL
TILLABLE LAND
platforma
asfalt
asphalted
platform
cladire
building
alee asfalt
asphalt trail
trotuar
265400
322800
265300
322800
265500
322800
265600
322800
1097.119 m(FirI) 2350.000m(FirII)
141.667m linia4
584.670m linia 1

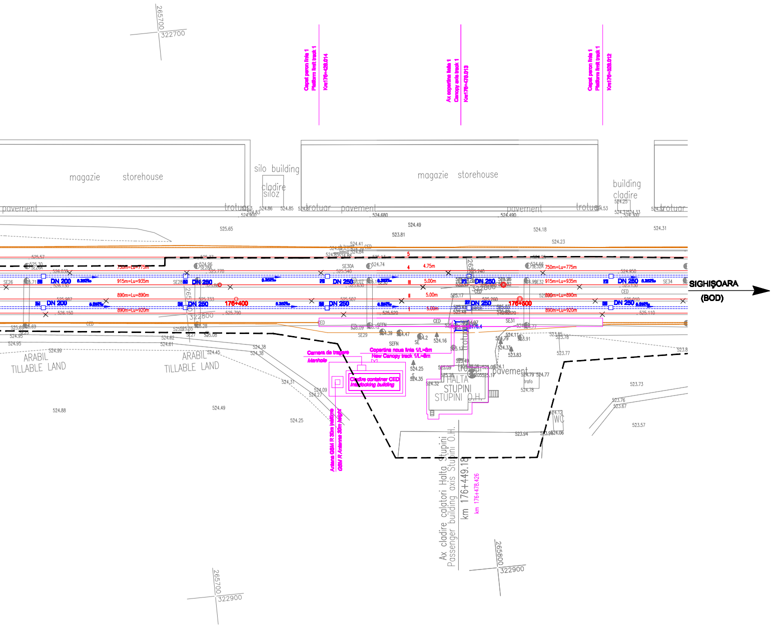
TABEL CURBE PROIECTATE - LINII ABATERE
DESIGNED CURVES - ON DEVIATION LINES TABEL

NR.CURBA CURVE NO.	VITEZA SPEED (km/h)	ELEMENTE - ELEMENTS					h_R (mm)	COORDONATE - COORDINATES					
								V		Ti		Te	
		U	R	T	B	C		X	Y	X	Y	X	Y
V03.01	65	196.4604	760	27.108	0.483	54.194	0	322757.2562	265280.0655	322752.6169	265253.3569	322759.9786	265307.0366
V03.02	45	192.9553	375	20.770	0.575	41.497	0	322736.9576	265342.7207	322739.1656	265321.9523	322741.0443	265363.3851
V03.03	50	192.3669	500	30.011	0.900	59.960	0	322757.2157	265523.5562	322754.2034	265493.6966	322758.6407	265553.5806

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	PJ109	-----	PJ 108	1081.12	972.68	890/920	UIC60	
2	Linia II - Fir I / Line II -Throug I	PJ101	107,109,108,106	PJ 102	1849.27	1323.97	890/890	UIC60	
3	Linia III-Fir II/ Line III-Throug II	PJ103	105,111,110,106	PJ 100	1649.30	1345.00	915/935	UIC60	
4	Linia 4 / Line 4	PJ111	113,114	PJ 110	1091.67	937.78	750/775	UIC60	
5	Linia 5 / Line 5	PJ111	113,115,112	PJ 18	1044.43	911.51	760	UIC60	

1	2


265700
322700
Capat peron linia 1
Platform limit track 1
Km176+428.014
Ax copertina linia 1
Canopy axis track 1
Km176+478.013
Capat peron linia 1
Platform limit track 1
Km176+528.012
magazie storehouse
silo building
cladire siloz
magazie storehouse
building
cladire
pavement
trotuar
DN 200
DN 250
750m=Lu=775m
915m=Lu=935m
890m=Lu=890m
890m=Lu=920m
176+400
176+500
4.75m
5.00m
CED
SE
SEFN
SIGHIŞOARA
(BOD)
ARABIL
TILLABLE LAND
Camera de tragere
Manhole
Copertina noua linia 1/L=6m
New Canopy track 1/L=6m
Cladire container CED
Interlocking building
Antena GSM R 30m inaltime
GSM R Antenna 30m height
HALTA STUPINI
STUPINI O.H.
trotuar
pavement
trafo
WC
Ax cladire calatori Halta Stupini
Passenger building axis Stupini O.H.
km 176+449.18
km 176+478.426
265800
322800
322900
265700
322900

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

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

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

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. Gambelli		
Verificat Checked	Expert Verificator Checking Expert	S. MENICHINI		

SUBCONTRACTANT / SUBCONTRACTOR

AREX COMPANY

Aprobat Approved	Responsabil Subcontractant Subcontractor Responsible	A.Stanciu - Dinulescu		
Întocmit Elaborated	Proiectant Designer	F. Mihai	12.2011	F Mih

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

Project/Project
2004/RO/16/P/PA/003

Faza / Phase:
P.Th. / T.D.

Denumire desen / Drawing Title :

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

Codificare / Codification System	Scara / Scale 1:500	LOT / LOT	Nr. / No
EA51 01 C 03 L8 SL 00 2 0 001 3			