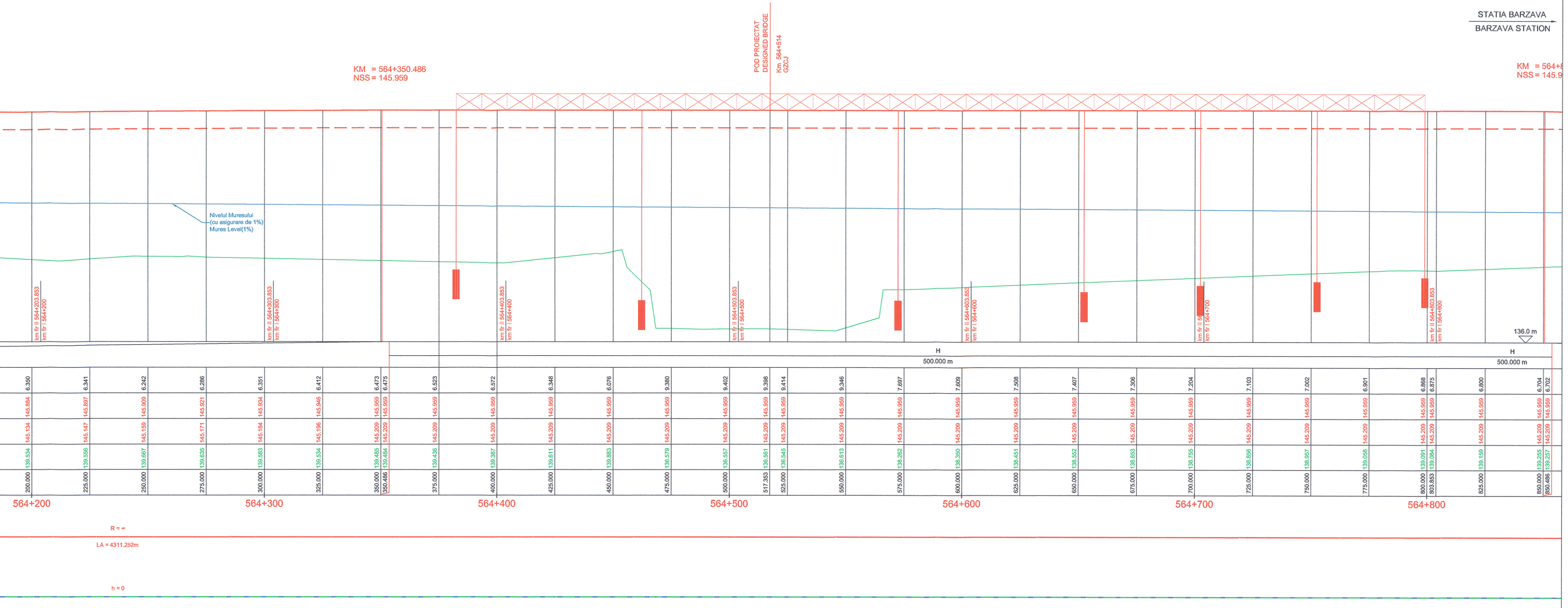

STATIA BARZAVA
BARZAVA STATION
KM = 564+350.486
NSS = 145.959
KM = 564+8
NSS = 145.9
POD PROIECTAT
DESIGNED BRIDGE
Km 564+514
GZCJ
Nivelul Muresului
(cu asigurare de 1%)
Mures Level(1%)
km fir II 564+203.853
km fir I 564+200
km fir II 564+303.853
km fir I 564+300
km fir II 564+403.853
km fir I 564+400
km fir II 564+503.853
km fir I 564+500
km fir II 564+603.853
km fir I 564+600
km fir II 56
km fir I 564+700
km fir II 564+803.853
km fir I 564+800
136.0 m
H
500.000 m
H
500.000 m
564+200
564+300
564+400
564+500
564+600
564+700
564+800
R = ∞
LA = 4311.252m
h = 0

200.000	139.534	145.134	145.884	6.350
225.000	139.556	145.147	145.897	6.341
250.000	139.667	145.159	145.909	6.242
275.000	139.635	145.171	145.921	6.286
300.000	139.583	145.184	145.934	6.351
325.000	139.534	145.196	145.946	6.412
350.000	139.485	145.209	145.959	6.473
350.486	139.484	145.209	145.959	6.475
375.000	139.436	145.209	145.959	6.523
400.000	139.387	145.209	145.959	6.572
425.000	139.611	145.209	145.959	6.348
450.000	139.883	145.209	145.959	6.076
475.000	136.579	145.209	145.959	9.380
500.000	136.557	145.209	145.959	9.402
517.353	136.561	145.209	145.959	9.398
525.000	136.545	145.209	145.959	9.414
550.000	136.613	145.209	145.959	9.346
575.000	138.262	145.209	145.959	7.697
600.000	138.350	145.209	145.959	7.609
625.000	138.451	145.209	145.959	7.508
650.000	138.552	145.209	145.959	7.407
675.000	138.653	145.209	145.959	7.306
700.000	138.755	145.209	145.959	7.204
725.000	138.856	145.209	145.959	7.103
750.000	138.957	145.209	145.959	7.002
775.000	139.058	145.209	145.959	6.901
800.000	139.091	145.209	145.959	6.868
803.853	139.084	145.209	145.959	6.875
825.000	139.159	145.209	145.959	6.800
850.000	139.255	145.209	145.959	6.704
850.486	139.257	145.209	145.959	6.702

LEGENDA / LEGEND

NSS	nivel superior sina proiectat designed top of rail
AR	aliniament-racordare, punctul de trecere din aliniament in curba parabolica alignment-junction, transition point from alignment to parabolic curve
RC	racordare-curba, punctul de trecere din curba de racordare parabolica in curba circulara junction-curve, transition point from parabolic junction curve to round curve
CR	curba-racordare, punctul de trecere din cutrba circulara in curba de racordare parabolica curve-junction, transition point from round curve to parabolic junction curve
RA	racordare-aliniament, punctul de trecere din curba de racordare parabolica in aliniament junction-alignment, transition point from parabolic junction curve to alignment
Ti	tangenta de intrare ingoing tangent
Te	tangenta de iesire outgoing tangent
TC	tangenta comuna common tangent
Rv	raza curbei de racordare circulare din plan vertical, in m radius of round junction curve from vertical plan, in m
Cv	lungimea curbei de racordare circulare din plan vertical, in m length of round junction curve from vertical plan, in m
Bv	bisectoarea curbei de racordare din plan vertical, in m bisector of junction curve from vertical plan, in m
Tv	tangenta curbei cu raza Rv tangent of curve with radius Rv

CT = Cota fund tub dren / Pipe bottom of collecting pipeline
DN = Diametru nominal tub de dren / Nominal diameter of collecting pipeline
Cc = Cota capac camin / Manhole top level
CTi = Cota fund tub dren intrare/ Pipe bottom of the collecting pipeline entering the manhole
CTo = Cota fund tub dren iesire/ Pipe bottom of the collecting pipeline exiting the manhole

⊕	Camin/Manhole
⊕	Camin cu schimbare de panta/Manhole with change of slope
⊕	Camin cu schimbare de diametru sau diametru si panta/ Manhole with change of DN or DN and slope
▯	Camin/Manhole
═	Tub de transport / Transport pipe
╌	Dren / Drain pipe
‒ ‒	Fund sant de beton / Concrete ditch bottom

Acest plan anuleaza si inlocuieste planul nr. PT.02.01.11.TS.202 - 13/15
elaborat la data 01.2013
This layout plan canceled and replaced layout plan no. PT.02.01.11.TS.202 - 13/15
prepared on 01.2013

STOICESCU A. GEORGE
NR. 05985

CHIRIAC ANTON

BAICU D. MARIN
NR. 06628

Verificator / Expert Checker / Expert	Cerința Requirement	Semnătura Signature	Referat / Expertiza Report / Expertise

European Investment Bank

MINISTERUL TRANSPORTURILOR

BENEFICIAR / BENEFICIARY :

COMPANIA NAȚIONALĂ DE CĂI FERATE "CFR" SA

PROIECTANT / DESIGNER:	PŐYRY		Data Date	Semnătura Signature
Aprobat Approved	Șef de echipă Team leader	C. Teodorescu	01.2013	
Verificat Checked	Expert Cheie Key Expert	L. Mărculescu	01.2013	
Subcontractant / Subcontractor	VIOTOP			
Aprobat Approved	Adjunct Șef de echipă Deputy Team leader	A.M. Baicu	01.2013	
Proiectat Designed	Inginer Engineer	E. Gonea	01.2013	

"Reabilitarea liniei c.f. Frontieră - Curtici - Simeria, parte componentă a coridorului IV Pan - European pentru circulația trenurilor cu viteză maximă de 160 km/h"
Tronsonul 2-B : cap Y Bârzava - cap Y Ilteu
"Rehabilitation of the Railway Line Border - Curtici - Simeria, component Part of the IV Pan - European Corridor for the Trains Circulation with maximum speed of 160 km/h"
Section 2-B : end Y Bârzava - end Y Ilteu

Project 9i
35311.1

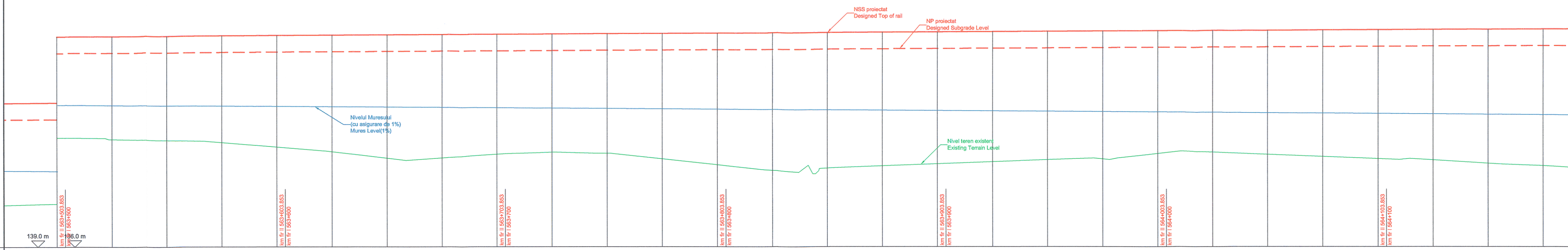
Faza / Phase:
PTh +CS / TD + TS

Denumire desen / Drawing name:

Profil longitudinal - Interval Vărădia - Bârzava -Firul II;
Vărădia - Bârzava Section Longitudinal Profile -Track II
km 563+500 - km 564+850

Scara / Scale	Revizia / Revision	Cod desen / Drawing Code	Nr / No
1:1000 **1:100**	1/16.05.2013	PT.02.01.11.SU.202	13/15

STATIA VARADIA
VARADIA STATION


NSS proiectat
Designed Top of rail
NP proiectat
Designed Subgrade Level
Nivelul Muresului
(cu asigurare de 1%)
Mures Level(1%)
Nivel teren existent
Existing Terrain Level
139.0 m
136.0 m
km fir II 563+503.853
km fir I 563+500
km fir II 563+603.853
km fir I 563+600
km fir II 563+703.853
km fir I 563+700
km fir II 563+803.853
km fir I 563+800
km fir II 563+903.853
km fir I 563+900
km fir II 564+003.853
km fir I 564+000
km fir II 564+103.853
km fir I 564+100

Profil longitudinal - Firul II
Longitudinal profile -Track II

Declivitati ‰ Lungimi (m)	Gradient ‰ Lengths (m)	+0.497 ‰ 920.000 m																											
Diferente pe verticala (m) intre NSS proiectat si NSS existent	Vertical distances (m) between designed NSS and existing NSS	4.585	4.669	4.725	4.837	5.057	5.286	5.590	5.591	5.434	5.363	5.417	5.683	5.964	6.231	6.147	6.061	5.977	5.893	5.810	5.797	5.563	5.520	5.629	5.738	5.846	5.912	6.074	6.193
Nivel superior sina - linia proiectata (in curbe pe firul interior)	Top of rail -designed line (in curves on inner rail)	145.536	145.548	145.561	145.573	145.586	145.598	145.611	145.623	145.635	145.648	145.660	145.673	145.685	145.698	145.710	145.723	145.735	145.747	145.760	145.772	145.785	145.797	145.810	145.822	145.834	145.847	145.859	145.872
Nivel platforma c.f. - linia proiectata	Subgrade level - designed line	144.786	144.798	144.811	144.823	144.836	144.848	144.861	144.873	144.885	144.898	144.910	144.923	144.935	144.948	144.960	144.973	144.985	144.997	145.010	145.022	145.035	145.047	145.060	145.072	145.084	145.097	145.109	145.122
Nivel superior sina existenta sau nivel teren existent	Existing top of rail or existing terrain level	140.951	140.880	140.836	140.736	140.528	140.312	140.021	140.032	140.201	140.285	140.243	139.990	139.721	139.467	139.563	139.661	139.758	139.854	139.950	139.975	140.222	140.277	140.181	140.084	139.988	139.935	139.786	139.679
Kilometraj	Kilometer position	500.000	525.000	550.000	575.000	600.000	625.000	650.000	675.000	700.000	725.000	750.000	775.000	800.000	825.000	850.000	875.000	900.000	925.000	950.000	975.000	0.000	25.000	50.000	75.000	100.000	125.000	150.000	175.000

563+500 563+600 563+700 563+800 563+900 564+000 564+100

Diagrama curburilor
Scara=1:1000 - 5 / R

CR II.23

Curvature diagram
Scara=1:1000 - 5 / R

Diagrama suprainaltarilor
M=1:1000 - 0.1 x h
sina din stanga
sina din dreapta

Superelevation diagram
M=1:1000 - 0.1 x h
left rail
right rail