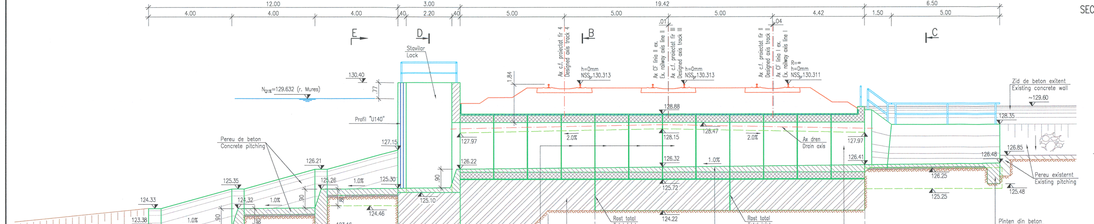
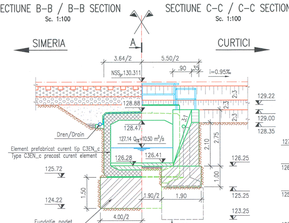
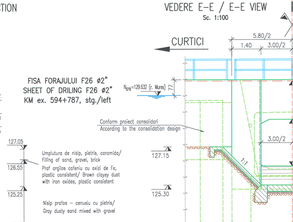
SECTIUNE LONGITUDINALA A–A / A–A LONGITUDINAL SECTION Sc. 1:100



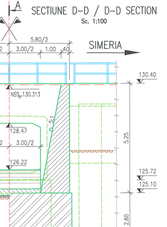
SECTIUNE B–B / B–B SECTION Sc. 1:100



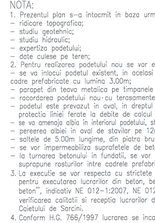
SECTIUNE C–C / C–C SECTION Sc. 1:100



FISA FORAJULUI F26 Ø2" / SHEET OF DRILING F26 Ø2" KM ex. 594+787, stg./left



VEDERE E–E / E–E VIEW Sc. 1:100



SECTIUNE D–D / D–D SECTION Sc. 1:100

NOTA:
1. Prezentul plan s–a intocmit in baza urmatoarelor date:
– ridicare topografica;
– studiu geotehnic;
– studiu hidraulic;
– expertiza podetului;
– date culese pe teren;
2. Pentru realizarea podetului nou se vor executa urmatoarele lucrari:
– se va inlocui podetul existent, in acelasi amplasament, cu un podet nou tip C3EN – cadre prefabricate cu lumina 3,00m;
– parapet din teava metalica pe timpanele podetului;
– racordarea podetului nou-cu terasamentele va fi asigurata in amonte cu ziduri de sprijin;
– podetul este prevazut in aval, in dreptul zidurilor din palplanse cu un stavilar ce asigura protectia liniei ferate la debite de calcul cu asigurare de 1% pe raul Mures;
– se va amenaja albia in interiorul podetului, stavilar si intre zidurile de sprijin din amonte cu pereu;
– peresrea albiei in aval de stavilar pe 12m;
– saltele de 5,00m lungime, din piatra bruta la capatul peraului;
– se vor impermeabilizia suprafetele de beton vizibile;
– la turnarea betoniului in fundatii, se vor realiza rosturi totale. Rosturile din fundatii se vor suprapune rosturilor intre cadrele prefabricate;
3. La executie se vor respecta cu strictete prevederile din SR EN 206–1, "Codul de practica pentru executarea lucrarilor din beton, beton armat si beton precomprimat. Producere beton", indicativ NE 012–1:2007, NE 012–2:2010 si NE 013/2002, din "Normativul pentru verificarea calitatii si receptia lucrarilor de constructii diferente" indicativ C56–85 si a Caietului de Sarcini.
4. Conform H.G. 766/1997 lucrarea se incadreaza in categoria "B" a constructiilor de importanta deosebita.
5. Proiectul va fi verificat de verificatori atestati MLPAT la exigentele A.4, B.2 si D.2.

NOTE:
1. This plan was prepared based on the next data:
– topo survey;
– geo–technical study;
– hydrological study;
– sheet of the culvert;
– expertise of the culvert;
– data collected on the site;
2. In view of executing the new culvert, the next works will be carried out:
– the existing culvert will be replaced on the same location with a new culvert types C3EN
– precast frames with clearance of 3,00m;
– a metallic parapet–rail is provided at both ends of the culvert;
– the connection of the new culvert with the embankments will be ensured upstream with retaining walls;
– the culvert is provided downstream, at the Larsen planks wall with a dam ensuring the protection of the railway line when the overflow water level of Mures River increases;
– the riverbed will be arranged with pitching inside the culvert, the dam and between the retaining walls from upstream;
– the riverbed will be pitched downstream from the lock on 12m;
– at the end of the pitching are provided 5,00m long mattresses made of rough stone;
– the culvert is provided downstream, at the Larsen planks wall with a lock ensuring the protection of the railway line when the overflow water level of Mures River increases;
– the visible concrete areas will be waterproofed;
– when casting the concrete of foundations, the total joints will be executed. The joints from foundations will overlap on the joints existent between the precast frames;
3. The provisions of the following legislation are to be strictly observed during execution "Code of practice for executing the concrete, reinforced concrete and prestressed concrete works", indicative NE 012–2007, NE 012–2:2010 and NE 013/2002, "Normative for checking the quality and the taking–over of related construction works" indicative C56–85, SR EN 206–1 and Technical Specifications.
4. Complying with H.G. 766/1997 this structure belongs to category "B" of importance.
5. The project will be verified at A.4, B.2 and D.2 requirements.

OBSERVATIE STAVILAR: Beneficiarul stavilarelor va asigura functionarea corespunzatoare a acestora pe baza unor instructiuni de utilizare, in functie de riveranle comunicate de Muntenia.

DAMS ATTENTION: The beneficiary of dams will ensure their proper functioning based on some instructions of utilization in function of the communicated levels of Mures River.

OBSERVATIE: – Pe toate suprafetele din beton in contact cu pamantul se vor aplica 2 straturi de emulsie din bitum filerizat.
– Protectia betonata a albiei se va executa cu rosturi conform celei de sarcini.

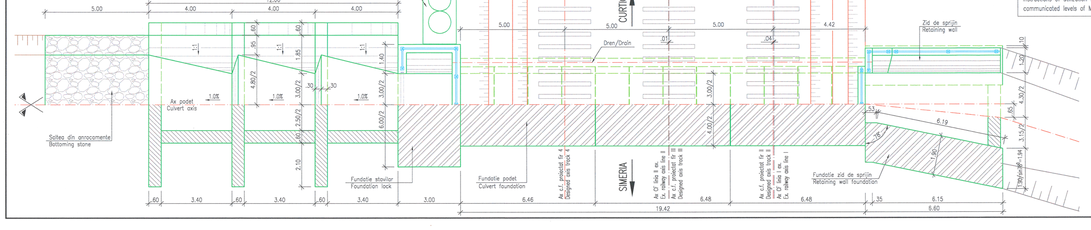
ATTENTION: – All concrete surfaces in contact with soil will be coated with 2 bituminous layers.
– The concrete protection of the riverbed will be executed with joints according with technical specifications.

CONVOI DE CALCUL LM71
CALCULATION CONVOY LM71

PLANURI DETALII GENERALE / GENERAL DRAWING DETAILS

ACOPERIRE ROSTURI ELEMENTE PREFABRICATE JOINTS COVERING PRECAST ELEMENTS	P	T	0	2	0	2	0	0	P	O	0 1
HIDROIZOLATIE SI SISTEM DE DRENARE PODETE WATERPROOFING AND DRAINAGE SYSTEM CULVERTS	P	T	0	2	0	2	0	0	P	O	0 2
PARAPET METALIC PODETE METALLIC HANDRAIL CULVERTS	P	T	0	2	0	2	0	0	P	O	0 3
PLAN COFRAJ CADRU TIP C3EN_c SHUTTERING PLAN FRAME TYPE C3EN_c	P	T	0	2	0	2	0	0	P	O	0 1
SHUTTERING PLAN FRAME TYPE C3EN_m PLAN COFRAJ CADRU TIP C3EN_c	P	T	0	2	0	2	0	0	P	O	0 1
FUNDATII PREFABRICATE PENTRU PODURI PROVIZORII SI DETALII DE REZEMARE PODURI PROVIZORII PREFABRICATED FOUNDATION FOR TEMPORARY BRIDGES AND PROPPING-UP DETAILS FOR TEMPORARY BRIDGES	P	T	0	2	0	2	0	0	P	O	0 2

VEDERE IN PLAN SI PLAN FUNDATII / PLAN VIEW AND FOUNDATIONS PLAN Sc. 1:100



LEGENDA BETOANELOR/CONCRETE LEGEND conform NE 012–1:2007/SR EN 206–1

BETON C35/45 – Clasa de expunere XC4+XD1+XF3, agregate D_{max} 22
ELEMENTE PREFABRICATE/PREFABRICATED ELEMENTS

BETON C25/30 – Clasa de expunere XC2+XF1+XA1, agregate D_{max} 22.
FUNDATII DIRECTE / DIRECT FOUNDATIONS

BETON C25/30 – Clasa de expunere XC4+XF3, agregate D_{max} 22.
ELEVATII SI ZIDURI DE SPRIJIN/ELEVATIONS AND RETAINING WALLS

BETON C25/30 – Clasa de expunere XC4+XF1+XM1, agregate D_{max} 16.
SAPA DE PROTECTIE A HIDROIZOLATIEI/WATERPROOFING PROTECTION

BETON C25/30 – Clasa de expunere XC4+XF3+XA1, agregate D_{max} 22.
PEREU /PITCHING

BETON C16/20 – Clasa de expunere X0+XF3, agregate D_{max} 16.
DREN / DRAINAGE

RAGNEL I. IONUT RADU
ROMANIA M.I.PAZ
Nr. 07239
AL BORDEIANU
INGINER
EXPERT CERTIFICATOR PROIECTE

Prezentul plan anuleaza si inlocuieste versiunea anterioara
This plan cancels and replaces previous version

Verificator / Expert Checker / Expert	Cerinta Requirement	Semnatura Signature	Referat / Expertiza Report / Expertise

European Investment Bank

MINISTERUL TRANSPORTURILOR

BENEFICIAR / BENEFICIARY :

COMPANIA NAȚIONALĂ DE CĂI FERATE "CFR" SA

PROIECTANT / DESIGNER: PÖYRY			Data Date	Semnatura Signature
Aprobat Approved	Sef de echipa Team leader	C. Teodorescu	01.2013	
Verificat Checked	Expert Cheie Key Expert	R. Tudorascu	01.2013	
Subcontractant / Subcontractor MOTOP				
Aprobat Approved	Adjunct Sef de echipa Deputy Team leader	A.M. Baicu	01.2013	
Proiectat Designed	Inginer Engineer	Oct. Lupu	01.2013	

SIMION C. CONSTANTIN
ROMANIA M.I.PAZ
NR: 1107
AL BORDEIANU
INGINER
EXPERT CERTIFICATOR PROIECTE

"Reabilitarea liniei c.f. Frontier à - Curtici - Simeria , parte componentă a coridorului IV Pan - European pentru circula ția trenurilor cu viteză maximă de 160 km/h"
Tronsonul 2-A : km 614 - cap Y Bârzava

"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-A : km 614 - end Y Bârzava

Project 9i 35311.1

Faza / Phase: PTH+CS / TD+TS

Denumire desen / Drawing name:
DISPOZITIE GENERALA / GENERAL LAYOUT
PODET / CULVERT KM pr. 591+468 (KM ex. 594+797)

Scara / Scale	Revizia / Revision	Cod desen / Drawing Code	Nr / No
1:100	1 / 04.2013	PT.02.02.06.PO.04.03	03