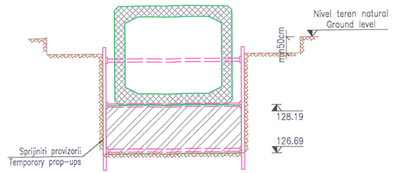
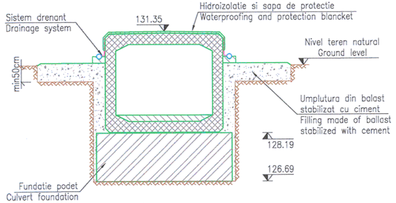
SECTIUNE TRANSVERSALA / CROSS SECTION



ETAPA I:
1. Se amenajeaza drumul de acces, platforma tehnologica si organizarea de santier
2. Se traseaza si picheteaza axele liniilor pentru traseul nou proiectat si infrastructurilor podetului nou.
3. Se executa sapatura cu sprijiniri pentru realizarea fundatiilor noi (podet si aripi).
4. Se betoneaza fundatiile podetului si aripilor si se scot sprijinirile.
5. Se aseaza elementele prefabricate tip C3EN si tip A2EN pe fundatiile monolite si se trateaza rosturile dintre elementele prefabricate conform detaliilor din proiect.
6. Pe suprafetele din beton in contact cu pamantul se vor aplica 2 straturi de emulsie din bitum filerizat.

STAGE I:
1. Arranging the access road, technological platform and site organization.
2. Marking-out and pegging-out the axes of the lines for the new designed route and the new culvert infrastructures.
3. Making the excavation with propping for executing the new foundations (culvert and wings).
4. Concreting the foundations of the culvert and of the wings and removing the propping.
5. Placed the precast elements type C3EN and type A2EN on the cast-in-place foundations and treating the joints between the precast elements according to the details in the design.
6. Applying 2 layers of filler bitumen emulsion on the concrete surfaces coming in contact with earth.

SECTIUNE TRANSVERSALA / CROSS SECTION



ETAPA II:
1. Se executa sapatura sub nivelul terenului natural.
2. Se executa umplutura din balast stabilizat cu ciment la cota.
3. Se executa fundatia drenului conform detaliilor din proiect.
4. Se executa sistemul drenant (geodren, geotextil si tub).
5. Se executa hidroizolatia protejata de sapa hidrofuga la extradosul cadrelor.
6. Se executa pereul in podet si intre aripi.
7. Se executa salteaua din enrocamente la capatul din amonte si aval a podetului.
8. Se amenajeaza albia podetului in amonte si aval, conform proiectului.

STAGE II:
1. Making the excavation under the level of the natural ground.
2. Executing the filling made of ballast stabilized with cement at the dimension.
3. Executing the foundation of the drain according to the details in the design.
4. Executing the draining system (geo-drain, geo-textile and tube).
5. Executing the waterproofing protected by watertight blanket at the extrados of the frames.
6. Executing the pitching in the culvert and between the wings.
7. Executing the mattress of riprap at the upstream and downstream end of the culvert.
8. Arranging the riverbed of the upstream and downstream culvert, according to the design.

TEHNOLOGIA DE POZARE A ELEMENTELOR PREFBRICATE:
1. Pe betonul de fundatie intarit se astern 3cm de mortar de ciment (2cm pentru nivelare si 1cm pentru pozare).
2. Prefabricatele se aseaza in amplasament, dupa care se ridica si se observa urma lasata pe stratul de mortar proaspat. In cazul in care nu s-a realizat asezarea pe toata suprafata, se completeaza cu mortar de ciment de poza. Operatia se repeta pana cand se obtine rezemarea pe toata suprafata.

PREFABRICATED ELEMENTS LAYING TECHNOLOGY:
1. 3cm of cement mortar are placed on the hardened concrete foundation (2cm for levelling and 1cm for laying).
2. The prefabricated elements are placed on site, after than there are rising and the track leaved on the fresh mortar layer is observed. If the laying is not done on the whole surface, cement mortar is cast on. The operation is repeted till the whole supporting surface is obtained.

ETAPA III – DUPA EXECUTAREA TERASAMENTULUI:
1. Se executa scarile de acces pe terasament.
2. Se monteaza parapetul de protectie metalic.
3. Se dezafecteaza platformele, accesele din zona de lucru, organizarea de santier.

STAGE III – AFTER THE EXECUTION OF THE EMBANKMENT:
1. Executing the stairs for access to embankment.
2. Mounting the metallic guard rails.
3. Closing-down the platforms, the accesses form the working area, the site organisation.

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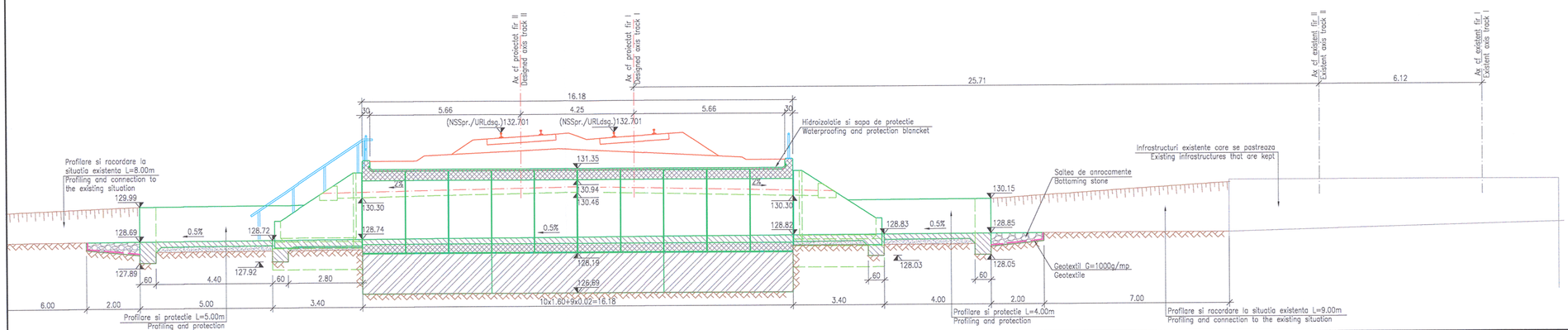
ROMÂNIA M.I.P.A.
Nr. 07230
A4, B2, D
INGINER VERIFICATOR PROIECTE



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

Verificator / Expert Checker / Expert	Cerinta Requirement	Semnatura Signature	Raport / 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 VIOTOP				
Aprobat Approved	Adjunct Sef de echipa Deputy Team leader	A.M. Baicu	01.2013	
Proiectat Designed	Inginer Engineer	D. Stanciu	01.2013	

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

Project 9i 35311.1

Faza / Phase: PTH+CS / TD+TS

Denumire desen / Drawing name:

TEHNOLOGIE DE EXECUTIE / EXECUTION TECHNOLOGY
PODET / CULVERT KM pr. 588+302 (KM ex. 591+612)

Scara / Scale	Revizia / Revision	Cod desen / Drawing Code	Nr / No
1:100	1 / 04.2013	PT.02.02.07.PO.06.04	04