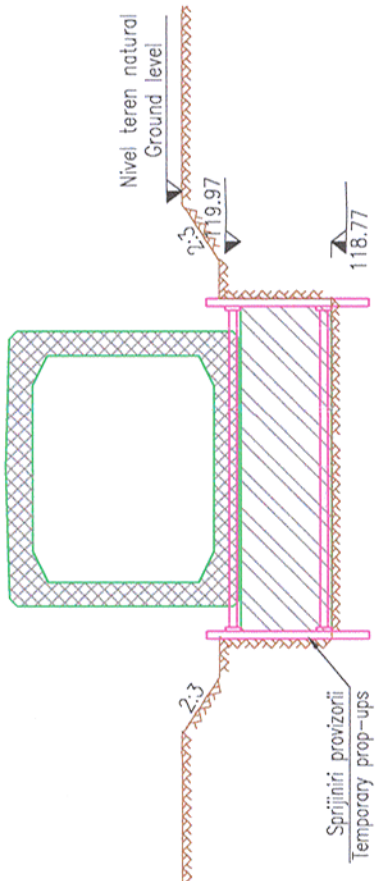


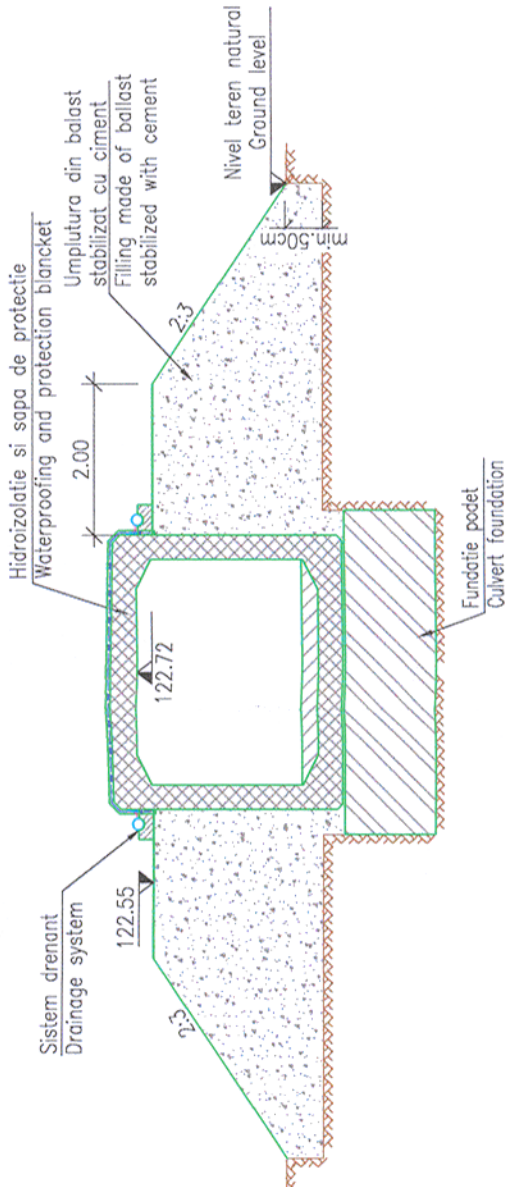
SECTIUNE TRANSVERSALA / CROSS SECTION



- ETAPA I:
- Se amenajeaza drumul de acces, platforma tehnologica si organizarea de santier
 - Se traseaza si picheteaza axele liniilor pentru traseul nou proiectat si infrastructurilor podetului nou.
 - Se executa sapatura cu sprijiniri pentru realizarea fundatiilor noi (podet si arpi).
 - Se betonizeaza fundatiile podetului si arpiilor si se scot sprijinirile.
 - Se aseaza elementele prefabricate tip C3EN si tip A3EN pe fundatiile monolite si se trateaza rosturile dintre elementele prefabricate conform detaliilor din proiect.
 - Pe suprafețele din beton în contact cu pământul se vor aplica 2 straturi de emulsie din bitum fierzător.

- STAGE I:
- Arranging the access road, technological platform and site organization.
 - Marking-out and pegging-out the axes of the lines for the new designed route and the new culvert infrastructures.
 - Making the excavation with propping for executing the new foundations (culvert and wings).
 - Concreting the foundations of the culvert and of the WINGS and removing the propping.
 - Placed the precast elements type C3EN and type A3EN on the cast-in-place foundations and treating the joints between the precast elements according to the details in the design.
 - Applying 2 layers of filler bitumen emulsion on the concrete surfaces coming in contact with earth.

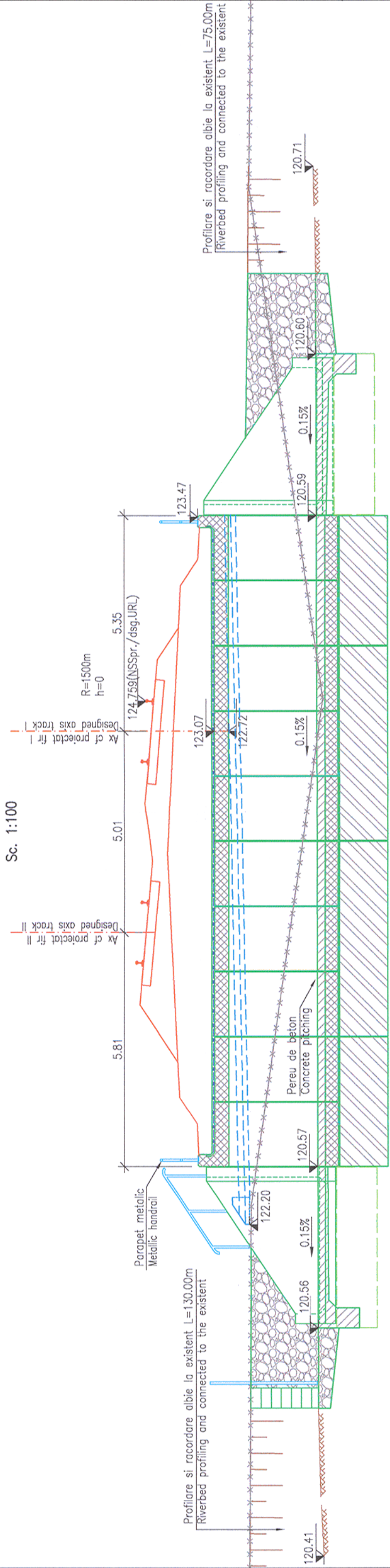
SECTIUNE TRANSVERSALA / CROSS SECTION



- ETAPA II:
- Se executa sapatura sub nivelul terenului natural.
 - Se executa umplutura din balast stabilizat cu ciment la cota.
 - Se executa fundatia drenului conform detaliilor din proiect.
 - Se executa sistemul drenant (geodren, geotextil si tub).
 - Se executa hidroizolatia protejata de sapa hidrofluga la extradosul cadrului.
 - Se executa perelul in podet si intre arpi.
 - Se executa salteaua din anrocamente la capatul din amonte si aval a podetului.
 - Se amenajeaza albia podetului în amonte și aval, conform proiectului.

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

SECTIUNE LONGITUDINALA A-A
A-A LONGITUDINAL SECTION



- TEHNOLOGIA DE POZARE A ELEMENTELOR PREFABRICATE:
- Pe betonul de fundatie intarit se astern 3cm de mortar de ciment (2cm pentru nivelare si 1cm pentru pozare).
 - Prefabricatele se aseaza in amplasament, dupa care se ridica si se observa urma lasata pe stratul de mortar proaspăt. In cazul in care nu s-a realizat asezarea pe toata suprafata, se completeaza cu mortar de ciment de poză. Operatia se repeta pana cand se obtine rezemarea pe toata suprafata.
- PREFABRICATED ELEMENTS LAYING TECHNOLOGY:
- 3cm of cement mortar are placed on the hardened concrete foundation (2cm for levelling and 1cm for laying).
 - The prefabricated elements are placed on site, after than there are rising and the track leveled 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 repeated till the whole supporting surface is obtained.



- ETAPA III – DUPA EXECUTAREA TERASAMENTULUI:
- Se executa scările de acces pe terasament.
 - Se monteaza parapetul de protectie metalic.
 - Se dezafecteaza platformele, accesele din zona de lucru, organizarea de santier.
- STAGE III – AFTER THE EXECUTION OF THE EMBANKMENT:
- Executing the stairs for access to embankment.
 - Mounting the metallic guard rails.
 - Closing-down the platforms, the accesses form the working area, the site organisation.

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



Verificator / Expert
Checker / Expert

Cerinta
Requirement

Semnatura
Signature

European Investment Bank

MINISTERUL TRANSPORTURILOR

BENEFICIAR / BENEFICIARY :

COMPANIA NAȚIONALĂ DE CĂI FERATE "CFR" SA

PROIECTANT / DESIGNER:

Aprobat
Approved

Verificat
Checked

Sef de echipa
Team leader

Expert Cheie
Key Expert

C. Teodorescu

R. Tudorascu

Semnatura
Signature

Data
Date

01.2013

01.2013

Subcontractant / Subcontractor

Aprobat
Approved

Proiectat
Designed

Adjunct Sef de echipa
Deputy Team leader

Inginer
Engineer

A.M. Baicu

F. Ioanidi

Project 9j
35311.1

Faza / Phase:
PTH+CS / TD+TS

Denumire desen / Drawing name:

TEHNOLOGIE DE EXECUTIE / EXECUTION TECHNOLOGY
PODET / CULVERT KM pr. 600+472 (KM ex. 603+809)

Scara / Scale
1:500 ; 1:100

Revizia / Revision
1 / 04.2013

Cod desen / Drawing Code
PT-02.02.03.PO-01.04

Nr / No
04