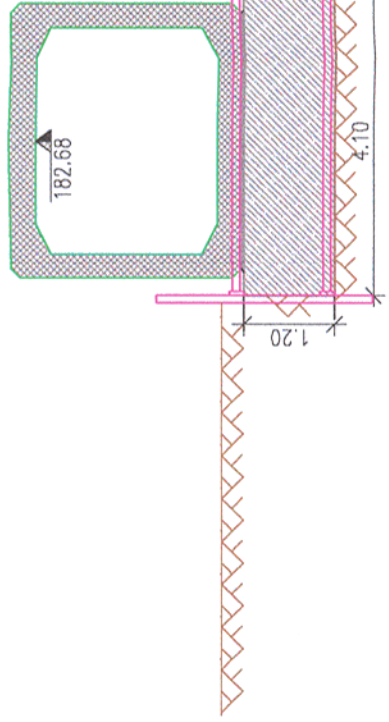




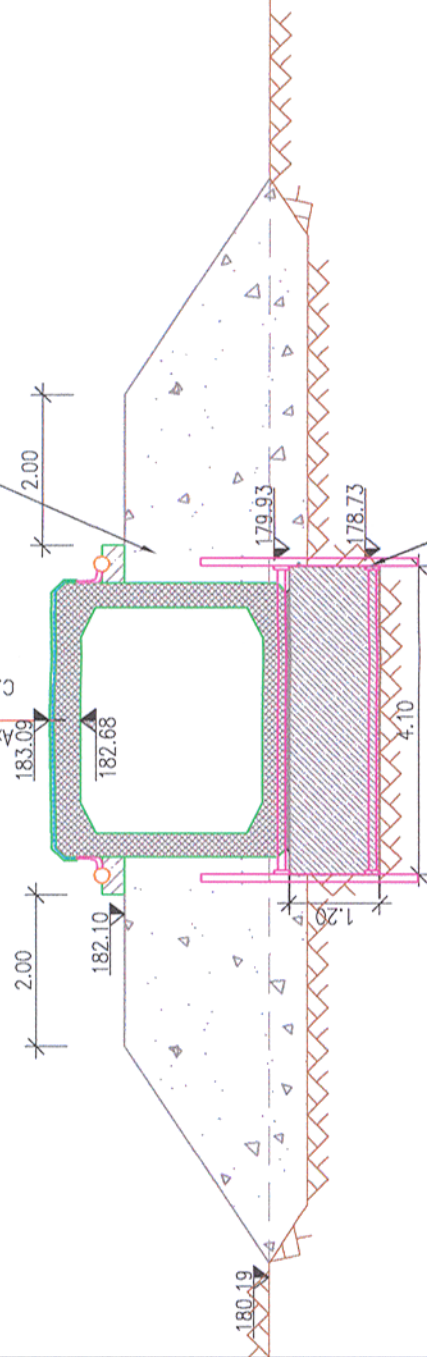
#### ETAPA I:

- Se executa sapatura cu sprijiniri pentru realizarea fundatiilor noi (podet si aripi).
- Se betoneaza fundatiile podetului si aripilor si se scoot sprijinirile.
- Se pozeaza elementele prefabricate tip C3EN, si tip A3EN pe fundatiile monolite si se trateaza rosturile dintre elementele prefabricate conform detaliilor din proiect.
- Pe suprafetele din beton in contact cu pamantul se vor aplica 2 straturi de emulsie din bitum filerizat.

#### STAGE I:

- 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.
- Laying-down 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.

Umplutura din balast stabilizat cu ciment  
Filling made of ballast stabilized with cement



#### ETAPA a-II-a:

- 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 hidroizolatia protejata de sapa hidrofuga la extradosul cadrelor.
- Se executa sistemul drenant (geodren, geotextil si tub).

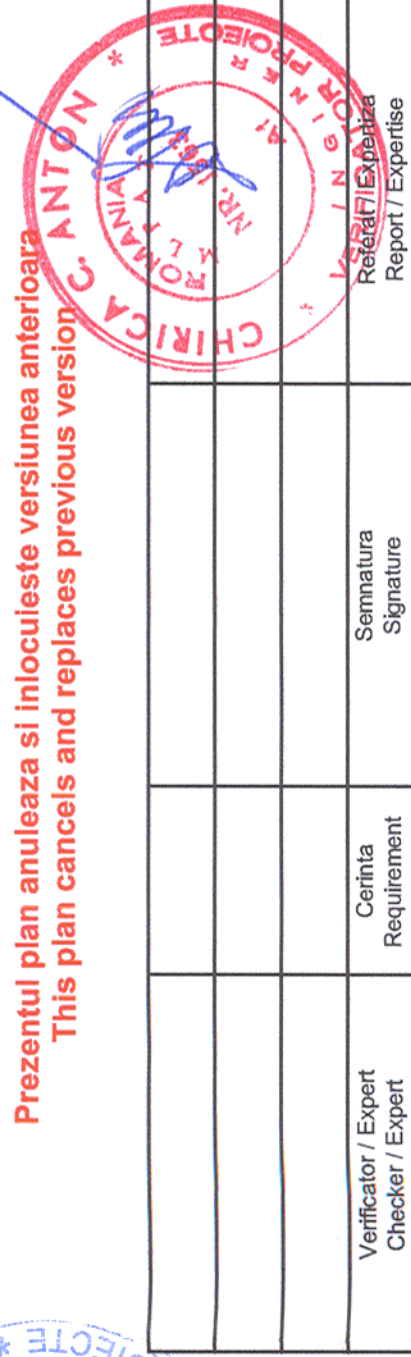
#### STAGE II:

- 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 waterproofing protected by watertight blanket at the extrados of the frames.
- Executing the draining system (geo-drain, geo-textile and tube).

Tehnologia de pozare a prefabricatelor:  
- pe betonul de fundatie intarit se astern 2cm de mortar de ciment pentru nivelare si 1cm pentru pozare;  
- prefabricatele se aseaza in amplasament, dupa care se ridica si se observa urma lasata pe stratul de mortar proaspalt. In cazul in care nu s-a realizat azoarea 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:  
- 2cm cement mortar for levelling and 1cm for laying are placed on the hardened foundation concrete;  
- 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 repeated till the whole supporting surface is obtained.

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

MINISTERUL  
TRANSPORTURILOR

BENEFICIAR / BENEFICIARY :

COMPANIA NATIONALA DE CAI 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

S. Amăricăi

01.2013

"Reabilitarea liniei c.f. Frontieră - Simeria, parte componentă a Coridorului IV  
Pan - European pentru circulația trenurilor cu viteză maximă de 160 km/h"

Tronsonul 3: Gurasada - Simeria

Project 9i  
35311.1

"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 3: Gurasada - Simeria

Faza / Phase:  
PTH+CS / TD+TS

Denumire desen / Drawing name:

TEHNOLOGIE DE EXECUTIE / TECHNOLOGICAL PROCESS  
PODET / CULVERT km pr. 492+234.60/ km ex. 492+231

Scara / Scale  
1:100

Revizia / Revision  
1 / 04.2013

Cod desen / Drawing Code  
PT.03.02.23.PO.08.04

Nr / No  
04