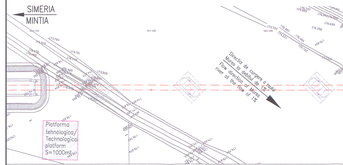
FAZA I: LUCRARI PREGATITOARE
STAGE I: PRELIMINARY WORKS



FAZA I: LUCRARI PREGATITOARE

1. Se amenajeaza drumul de acces si platforma tehnologica.
2. Se realizeaza organizarea de santier.
3. Se executa lucrari de protectie si/sau deviere instalatii de telecomunicatii, inca de sine fiind, de pe zona lucrari.
4. Se demontaseaza digurile pe zona efectata de lucrari.
5. Se executa rampele de acces.

STAGE I: PRELIMINARY WORKS

1. Arranging the access roads and the technological platforms.
2. Making the site organization.
3. Making works for protecting and/or deflecting the telecommunication installations, other than those installations from the works' area.
4. Repositioning the dykes from the work site.
5. Executing the access ramps.

FAZA II: REALIZARE INFRASTRUCTURI MAL SIMERIA (C1, P1, P2)

Se executa platforma de lucru si utilizare a infrastructurii pe malul Simeria (sisto superioare o prelevare vi fi cu 25 cm peste nivelul Muresului cu asigurare 1%).

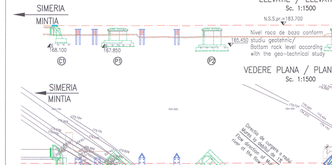
Se executa incintele de poziionare pentru infrastructurile de pe Simeria.

1. Se executa sapatura in interiorul incintelor lor odata cu avansarea coastelor ce vor monta sproturi.
2. Se executa betonul de egalizare lor dupo oligrenos closei se demontaseaza sproturiile de la partea inferioara.
3. Se montaseaza cofrajele pentru fundatii, si se executa fundatiile infrastructurii.
6. Dupo oligrenos a BCE din closa betonului din fundatii, acestea se decofreaza si se executa umplutura din jurul lor.
7. Se montaseaza cofrajele pentru elevatii, si se executa elevatiile infrastructurii.
8. Dupo oligrenos closei betonului din elevatiile infrastructurii acestea se decofreaza, si se demontaseaza sproturiile de pe zona lor odata cu executarea umpluturii aferoasa.
9. Se montaseaza cofrajele pentru banchetele infrastructurilor si pentru zidurile inscrise ale cadrel si de zabrelezie.
10. Dupo oligrenos closei betonului din banchete si din ziduriile inscrise se decofreaza.
11. Se demontaseaza incintele de poziionare.
12. Se executa lucrarile de protectie a infrastructurilor cu asfalte de ancoramente.
13. Se realizeaza etansul drenant, umplutura din spatele celei si se executa drenurile si barbacanele.
14. Se executa pulee provizorii pe malul Simeria.
15. Se desafecteaza platforma de acces de pe malul Simeria din zona albiei minore.

STAGE II: MAKING THE INFRASTRUCTURES ON THE SIMERIA BANK (C1, P1, P2)

1. Making the work platform of plants to the Simeria bank (the top level of the platform will be 25 cm over the level of Mures River with 1% precipitation).
2. Making the shelf-pile premises for the infrastructures on the left bank.
3. Making the excavations inside the premises and mounting spurs as the excavation progresses.
4. Making the levelling concrete and demoulding the spurs from the bottom side after reaching the concrete class.
5. Mounting the shutters for foundations and making the infrastructures' foundations.
6. After reaching BCE of the class of concrete in the foundations, their shutters are removed and the filling around them is carried-out.
7. Mounting the shutters for the elevations and executing the infrastructures' elevations.
8. After reaching the class of concrete in the infrastructures' elevations, their shutters are removed and the spurs on their area are demoulded at the same time with the execution of the adjucent filling.
9. Mounting the shutters for the infrastructures' benches and for the wing walls of the abutment and coaching with concrete.
10. After reaching the class of concrete in the benches and in the wing walls, the shutters are removed.
11. Demoulding the shelf-pile premises.
12. Making the infrastructure protection works with riprap mattresses.
13. Making the drainage system, the filling behind the abutment and coroying-out the cone quarters.
14. Making the temporary bents on the Simeria bank.
15. Closing-down the access platform from the Simeria bank in the inner of minor riverbed.

FAZA III: REALIZARE INFRASTRUCTURI MAL CURTICI (P3, P4, P5 si C2)
STAGE III: MAKING THE INFRASTUCTURES ON THE CURTICI BANK (P3, P4, P5 and C2)



FAZA III: REALIZARE INFRASTRUCTURI MAL CURTICI (P3, P4, P5 si C2)

Se executa platforma de acces a utilizare in infrastructuri pe malul Curtici (sisto superioare o prelevare vi fi cu 25 cm peste nivelul Muresului cu asigurare 1%).

1. Se foreaza piloti de la nivelul platformei de acces la infrastructura P4.
2. Se executa incintele de poziionare pentru infrastructurile de pe malul Curtici.
3. Se executa sapatura in interiorul incintelor lor odata cu avansarea coastelor ce vor monta sproturi.
4. Se executa betonul de egalizare lor dupo oligrenos closei se demontaseaza sproturiile de la partea inferioara.
5. Se montaseaza cofrajele pentru fundatii, si se executa fundatiile infrastructurii.
6. Dupo oligrenos a BCE din closa betonului din fundatii, acestea se decofreaza si se executa umplutura din jurul lor.
7. Se montaseaza cofrajele pentru elevatii, si se executa elevatiile infrastructurii.
8. Dupo oligrenos closei betonului din elevatiile infrastructurii acestea se decofreaza, si se demontaseaza sproturiile de pe zona lor odata cu executarea umpluturii aferoasa.
9. Se montaseaza cofrajele pentru banchetele infrastructurilor si pentru ziduriile inscrise ale cadrel si de zabrelezie.
10. Dupo oligrenos closei betonului din banchete si din ziduriile inscrise se decofreaza.
11. Se demontaseaza incintele de poziionare.
12. Se executa lucrarile de protectie a infrastructurilor cu asfalte de ancoramente.
13. Se realizeaza etansul drenant, umplutura din spatele celei si se executa drenurile si barbacanele.
14. Se executa pulee provizorii pe malul Simeria.
15. Se desafecteaza platforma de acces de pe malul Curtici din zona albiei minore.

STAGE III: MAKING THE INFRASTUCTURES ON THE CURTICI BANK (P3, P4, P5 and C2)

1. Making the platform for the access of plants to the Curtici bank (the top level of the platform will be 25 cm over the level of Mures River with 1% precipitation).
2. Drilling the piles from the level of the platform of access to infrastructure P4.
3. Making the shelf-pile premises for the infrastructures on the right bank.
4. Making the excavations inside the premises and mounting spurs as the excavation progresses.
5. Making the levelling concrete and demoulding the spurs from the bottom side after reaching the concrete class.
6. Mounting the shutters for foundations and making the infrastructures' foundations.
7. After reaching BCE of the class of concrete in the foundations, their shutters are removed and the filling around them is carried-out.
8. Mounting the shutters for the elevations and executing the infrastructures' elevations.
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14. Making the drainage system, the filling behind the abutment and coroying-out the cone quarters.
15. Closing-down the access platform from the Simeria bank in the inner of minor riverbed.

FAZA IV: REALIZARE PALEI PROVIZORII IN ALBIA MINORA
STAGE IV: MAKING THE TEMPORARY BENTS IN THE MINOR RIVERBED

FAZA IV: REALIZARE PALEI PROVIZORII IN ALBIA MINORA

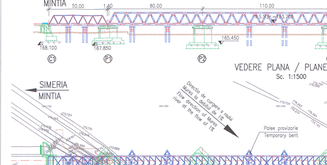
Se realizeaza pulee provizorii in albia minora pe malul stang si dreptul Simeria.

Se foreaza la capetele din stoncile disponibile de apoi gracia.

STAGE IV: MAKING THE TEMPORARY BENTS IN THE MINOR RIVERBED

1. Making the temporary bents in the minor riverbed by help of loading gracilarma.
2. Mounting devices for breaking the ice of the upstream ends.

FAZA V: MONTARE TABLIERE
STAGE V: MOUNTING THE DECKS



FAZA V: MONTARE TABLIERE

1. Se montaseaza cepile Pfeifferson, antretoisele, barele grigiilor principale si controvantuirea superioare (se montaseaza ca si grigiilor utilizate care au scopul de platforme ler in albia minora cu ajutorul unor platformi plutitoare).
2. Se montaseaza plateleiul metalic, cu excepitia zonelor care se afla pleiere provizorii.
3. Se pasitioneaza tablierele metalice pe aparatele de reazem.
4. Se welcog pleiere provizorii, prin apoilie (bare sustinere pulee).
5. Se montaseaza plateleiul metalic in zonele libere, cuplarea de balast si concreete de trotuar.

STAGE V: MOUNTING THE DECKS

1. Mounting the lower flanges, the cross pieces, the bars of the main girders and the upper wind bracing (on spots they are mounted by help of equipment with access to the platforms and in the minor riverbed by help of floating platforms).
2. Mounting the metallic bridge plates, except for the areas where there are temporary bents.
3. Placing the metallic decks on the bearing devices.
4. Welding temporary bents through the free spaces left in the bridge plates.
5. Mounting the metallic bridge plates in the free areas, the ballast recovery and the footpath cantilevers.

FAZA VI: ALTE TIPURI DE LUCRARI

1. Se executa hidroizolatia cuvelor metalice pe podul nou.
2. Se montaseaza limite de siguranta.
3. Se executa cuiere pe pod si pe terasament, si in cariere cu lucrarile de suprastructura si inchide de deschidereea circulatiei se realizeaza inaintarea podului.
4. Se executa asfalte de acces la terasament.
5. Se deschide circulatia feroviara in trepte de viteza conform instructiilor in vigoare.
6. Se dezafecteaza platformele, accesele din zona de lucru si organizarea de santier.

STAGE VI: OTHER TYPES OF WORKS

1. Making the waterproofing of the metallic vats on the new bridge.
2. Mounting the contact line.
3. Making the trees on the bridge and on the embankment and leeling the bridge in correlation with the railway superstructure works before opening the traffic.
4. Making the access aloins on the embankment.
5. Opening the railway traffic in speed levels according to the instructions in force.
6. Closing-down the platforms, the accesses from the work area and the site organization.

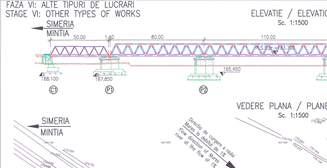
NOTE:

1. Lucrarile la pod se vor corela cu lucrarile de suprastructura s.f. si cu lucrarile de linie de contact.
2. Detaliile prezentate in acest plan nu sunt obligatorii si pot fi modificate sau adaptate in functie de datele constructivului cu respectarea conditiilor de realizare a documentatiei tehnicului si scopul de asistent si cu avizul proiectantului.
3. Orice neconcordanta intre elementele date in vederea si elaborarea proiectului si teren se fi structiilor proiectantului pentru adaptare la situatia existenta.

NOTE:

1. The bridge works will be correlated with the railway superstructure and the contact line.
2. The details presented in this plan are not compulsory and can be modified or adapted depending on the constructor's endeavors by observing the execution conditions of the final works provided in the Technical Specifications and the designer's approval.
3. Any incongruity between the elements taken into account for preparing the design and the site will be announced to the designer so that he can adapt to the existing situation.

FAZA VI: ALTE TIPURI DE LUCRARI
STAGE VI: OTHER TYPES OF WORKS



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

Verificator / Expert Checker / Expert	Cerinta Requirement	Semnatura Signature	Rolul / Specialitatea Report / Expertise

European Investment Bank

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. Tudoraşcu	01.2013
Subcontractant / Subcontractor: IOTOP			
Aprobat Approved	Adjunct Sef de echipa Deputy Team leader	A.M. Baicu	01.2013
Proiectat Designed	Inginer Engineer	I. Păunescu	01.2013

"Reabilitarea liniei c.f. Frontier à - Curtici - Simeria , parte componentă a Coridorului IV Pan - European pentru circula ţia trenurilor cu viteză maximă de 160 km/h"
Tronsonul 2: Gurasada - Simeria

"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

Project 9/ 35311.1

Faza / Phase: PTH+CS / TD+TS

Denumire desen / Drawing name:
TEHNOLOGIE DE EXECUTIE / TECHNOLOGICAL PROCESS
POD / BRIDGE
KM.PR.(DSG.).494+913.600

Scara / Scale	Revizia / Revision	Cod desen / Drawing Code	Nr / No
1:1500	1 / 04.2013	PT.03.02.23.POD.14.04	04