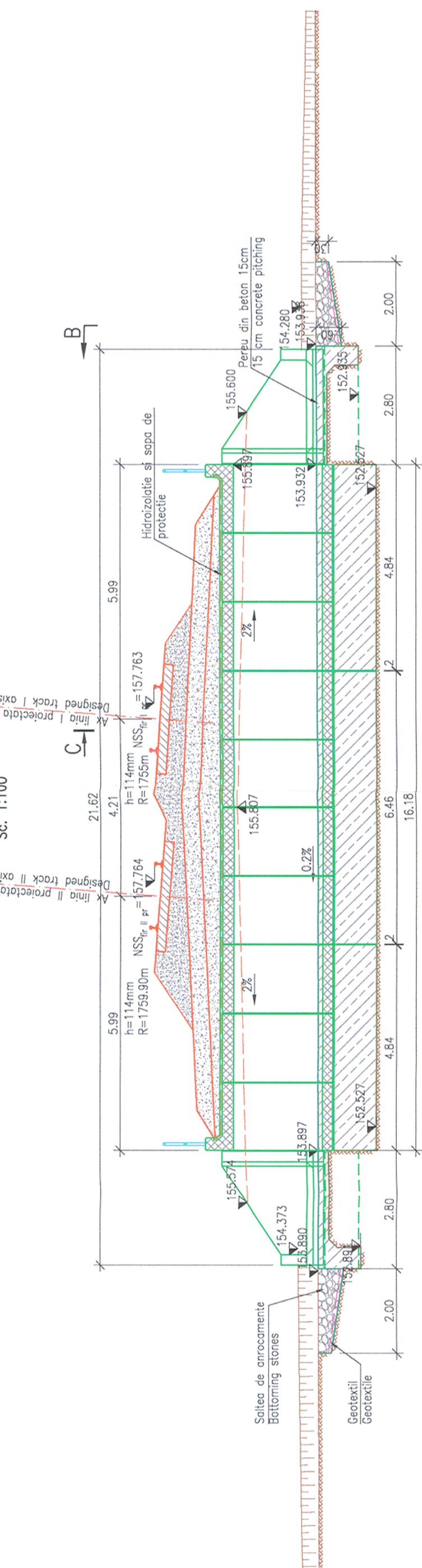
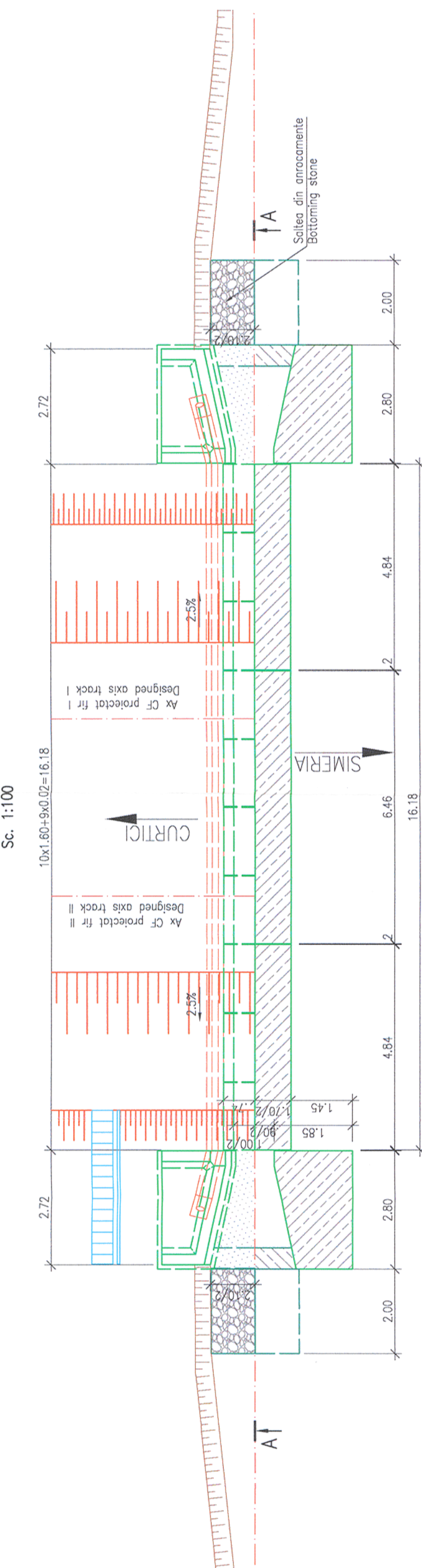


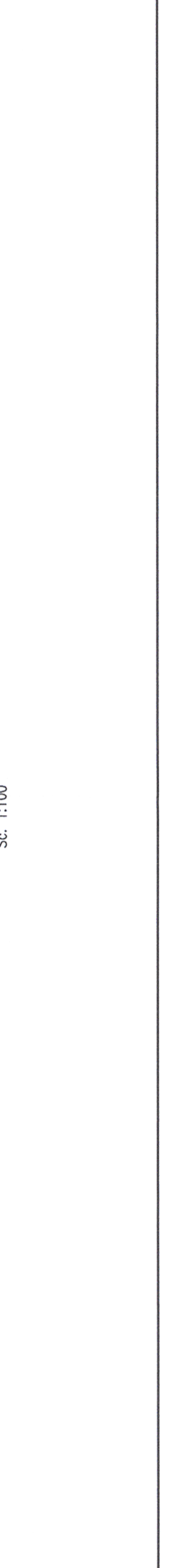
SECTIUNE LONGITUDINALA A-A / LONGITUDINAL SECTION A-A



VEDERE PLANA / PLAN VIEW

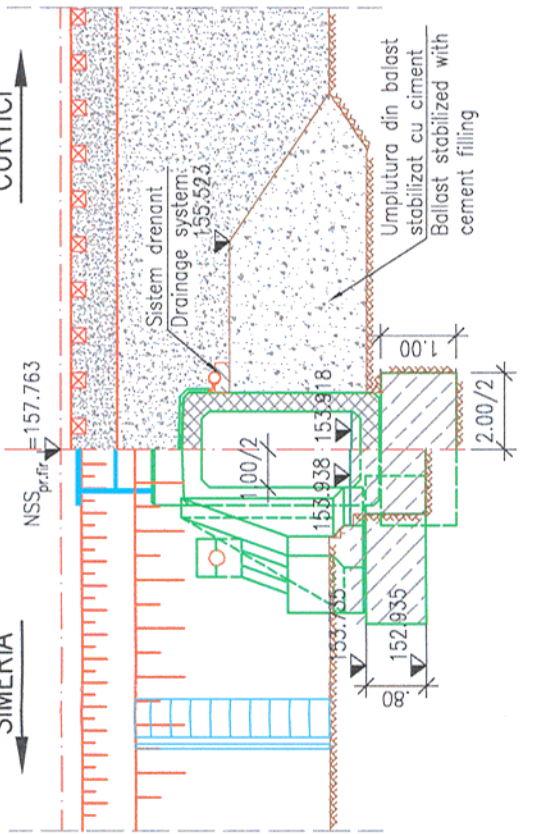


PLANUL FUNDATIILOR / FOUNDATIONS PLAN

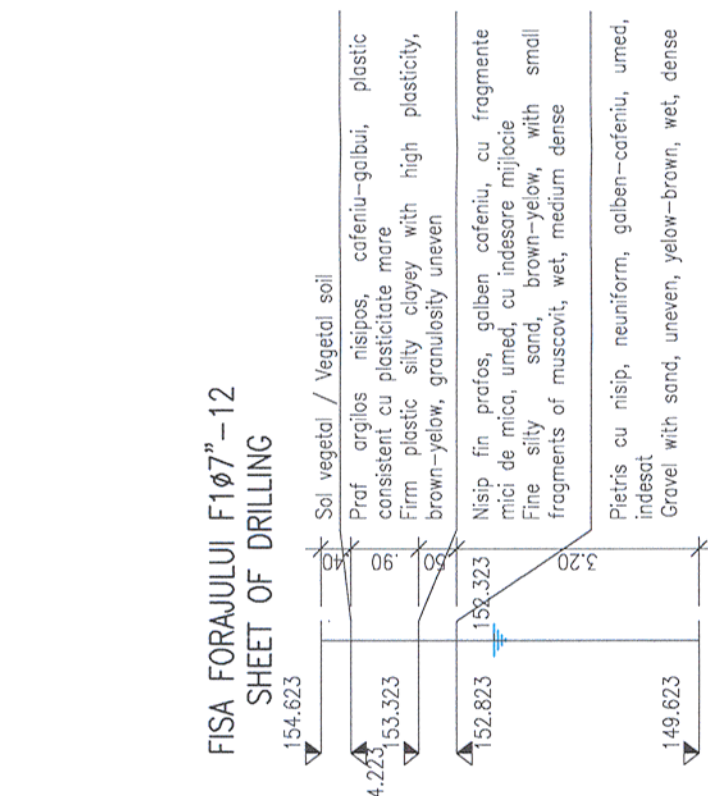


VEDERE B-B / B-B VIEW

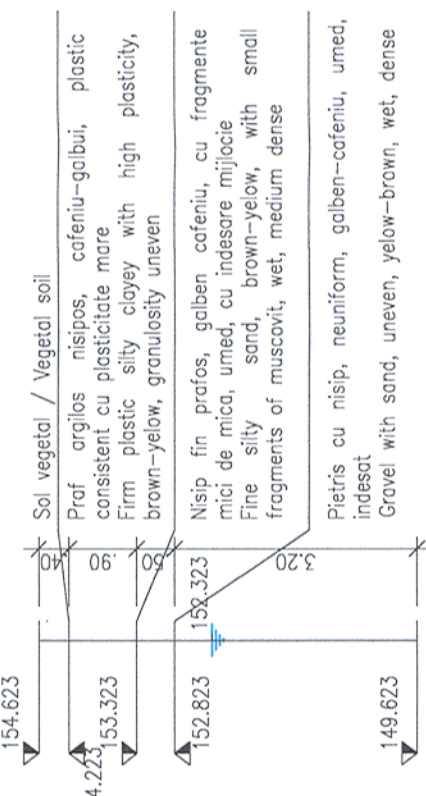
SECTIUNE C-C / SECTION C-C



CONVOI DE CALCUL LM71
LOAD MODEL LM71



FISA FORAJULUI F107 - 12
SHEET OF DRILLING



NOTA:

- Prezentul plan s-a intocmit in baza urmatoarelor date:
 - studii topografic;
 - studii geotehnic;
 - date culesse pe teren.
- Pe traseul de cale ferata proiectat, la km 535+743, se vor executa:
 - podet tip cadru C1EN, care se racordeaza cu terasamentul amonte si aval cu arpi prefabricate tip A2EN.
 - parapet metalic de protectie montat pe arpi.
 - pereu din beton in podet precum si intre arpi, asigurandu-se astfel o panta de scurgere de 0,2%.
 - suprafetele de beton vizibile se vor impermeabiliza.
 - scari de acces cu balustrade metalice pe terasament.
- La executie se vor respecta cu strictete prevederile din:
 - Codul de practica pentru executarea lucrarilor din beton, beton armat si beton precomprimat, indicativ NE 012;
 - Codul de practica pentru executarea elementelor prefabricate din beton, beton armat si beton precomprimat, indicativ NE 013;
 - Normativul pentru verificarea calitatii si receptia lucrarilor de constructii aferente, indicativ C56-85
 - Caleiul de sarciri.
 - Conform H.G. 766/1997 lucrarea se incadreaza in categoria "B" a constructiilor de importanta deosebita.
 - Proiectul va fi verificat de verificatori atestati MLPAT la exigentele A.4, B.2 si D.2.

NOTE:

- This plan was prepared based on the next data:
 - topo survey;
 - geo-technical study;
 - On the designed railway route, at km 535+743, there will be executed:
 - box culvert type C1EN which will be connected upstream and downstream with precast wings type A2EN.
 - metallic handrail mounted on the culvert.
 - in the culvert as well as between the wings, a concrete pitching will be executed thus ensuring a discharge slope of 0,2%.
 - the visible concrete areas will be waterproofed.
 - access steps with metallic handrails are provided on the embankment.
 - During execution there will be strictly observed the provisions of:
 - Practice code concerning the execution of concrete, r.c. and pre-stressed concrete works, indicative NE 012
 - Practice code concerning execution of concrete, r.c. and pre-stressed concrete elements, indicative NE 013;
 - Normative concerning the quality check and taking-over of afferent construction work, indicative C56-85
 - Technical Specifications.
 - Complying with H.G. 766/1997 this structure belongs to category "B" of importance.
 - The project will be verified at A.4, B.2 and D.2 requirements.

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 SI FUNDATII PROVIZORII/DIRECT FOUNDATIONS AND TEMPORARY FOUNDATIONS
- BETON C25/30 - Clasa de expunere XC4+XF1+XM1, agregate D_{max} 16, SAPA DE PROTECTIE A HIDROZOLATIEI/WATERPROOFING PROTECTION
- BETON C25/30 - Clasa de expunere XC4+XF3+XA1, agregate D_{max} 22, PEREU SI SCARI DE ACCES/PITCHING, ACCESS AND STAIRS
- BETON C16/20 - Clasa de expunere XO+XF3, agregate D_{max} 16, DREN, BETON DE PANTA SI DE EGALIZARE DRAINAGE, SLOPE AND LEAN CONCRETE

OBSERVATIE:

- Pe toate suprafetele din beton in contact cu pamantul se vor aplica 2 straturi de emulsie din bitum fierzizat;
- Suprafetele de beton vizibile se vor impermeabiliza.

ATTENTION:

- All concrete surfaces in contact with soil will be coated with 2 bituminous layers;
- Waterproofing the visible concrete surfaces.

PLANURI DETALII GENERALE / GENERAL DRAWING DETAILS

ACOPERIRE ROSTURI ELEMENTE PREFABRICATE	PT 0 2 0 2 0 0 P 0 0 1
JOINTS COVERING PRECAST ELEMENTS	
HIDROZOLATIE SI SISTEM DE DRENARE PODETE	PT 0 2 0 2 0 0 P 0 0 2
WATERPROOFING AND DRAINAGE SYSTEM CULVERTS	
PAPAPET METALIC PODETE	PT 0 2 0 2 0 0 P 0 0 3
METALLIC HANDRAIL CULVERTS	
PLAN COFRAJ CADRU TIP C1EN_m	PT 0 2 0 2 0 0 P 0 0 7
SHUTTERING PLAN FRAME TYPE C1EN_m	
PLAN COFRAJ CADRU TIP C1EN_c	PT 0 2 0 2 0 0 P 0 0 8
SHUTTERING PLAN FRAME TYPE C1EN_c	
PLAN COFRAJ ARIPI TIP A2EN	PT 0 2 0 2 0 0 P 0 1 4
SHUTTERING PLAN WING A2EN TYPE	
SCARA DE ACCES SI BALUSTRADA METALICA	PT 0 2 0 2 0 0 P 0 2 2
ACCESS STAIRS AND METALLIC BALUSTRADE	

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

VERIFICATOR / EXPERT
Checkers / Experts

SEMNTURA
Signature

RELAZAREA
Report / Expertise

MINISTERUL TRANSPORTURILOR
BENEFICIAR / BENEFICIARY:

COMPANIA NATIONALA DE CAI FERATE "CFR" SA

PROIECTANT / DESIGNER:

DATA
Date

SEMNTURA
Signature

APROBAT
Approved

VERIFICAT
Checked

SUBCONTRACTANT / SUBCONTRACTOR

APROBAT
Approved

PROIECTAT
Designed

SEF DE ECHEPIA
Team leader

CHEIE
Key Expert

ADJUNCT SEF DE ECHEPIA
Deputy Team leader

INGINIER
Engineer

DATA
Date

SEMNTURA
Signature

PROIECT
Project

Faza / Phase:
PTH+CS / TD+TS

Denumire desen / Drawing name:
DISPOZITIE GENERALA / GENERAL LAYOUT
PODETE / CULVERT KM pr. 535+746

Scara / Scale
1:100

Revizia / Revision
1 / 04.2013

Cod desen / Drawing Code
PT.02.02.15.P0.04.03

Nr / No
03