

DATE HIDRAULICE
 -Inaltimea de apa in podet: h=1.39m
 -Perimetrul udat: P=7.78m
 -Aria: A=6.95m²
 -V. curgere apa= V=3.69mc/s

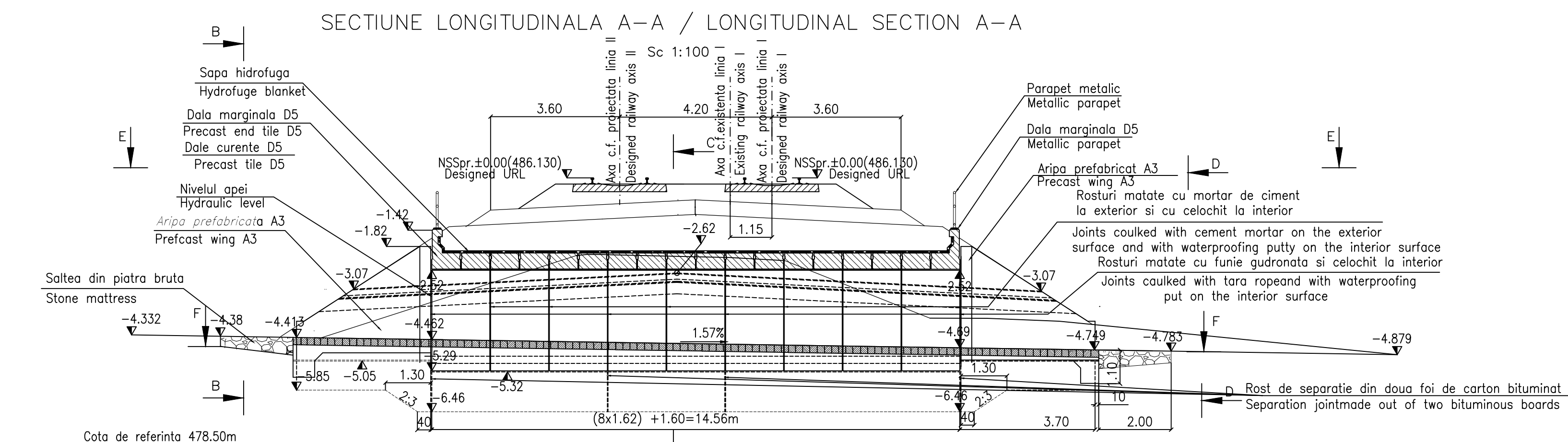
HYDRAULIC DATA
 -Hydraulic height: h=1.39m
 -Perimeter: P=7.78m
 -Surface: A= 6.95m²
 -Watere low speed= V=3.69mc/s

NOTA
 Numar de elemente prefabricate
 -Dale marginale D5: -2buc.
 -Dale curente D5: -16buc.
 -Aripi prefabricate A3: -4buc.
 -Elevatiile L2: -18buc.

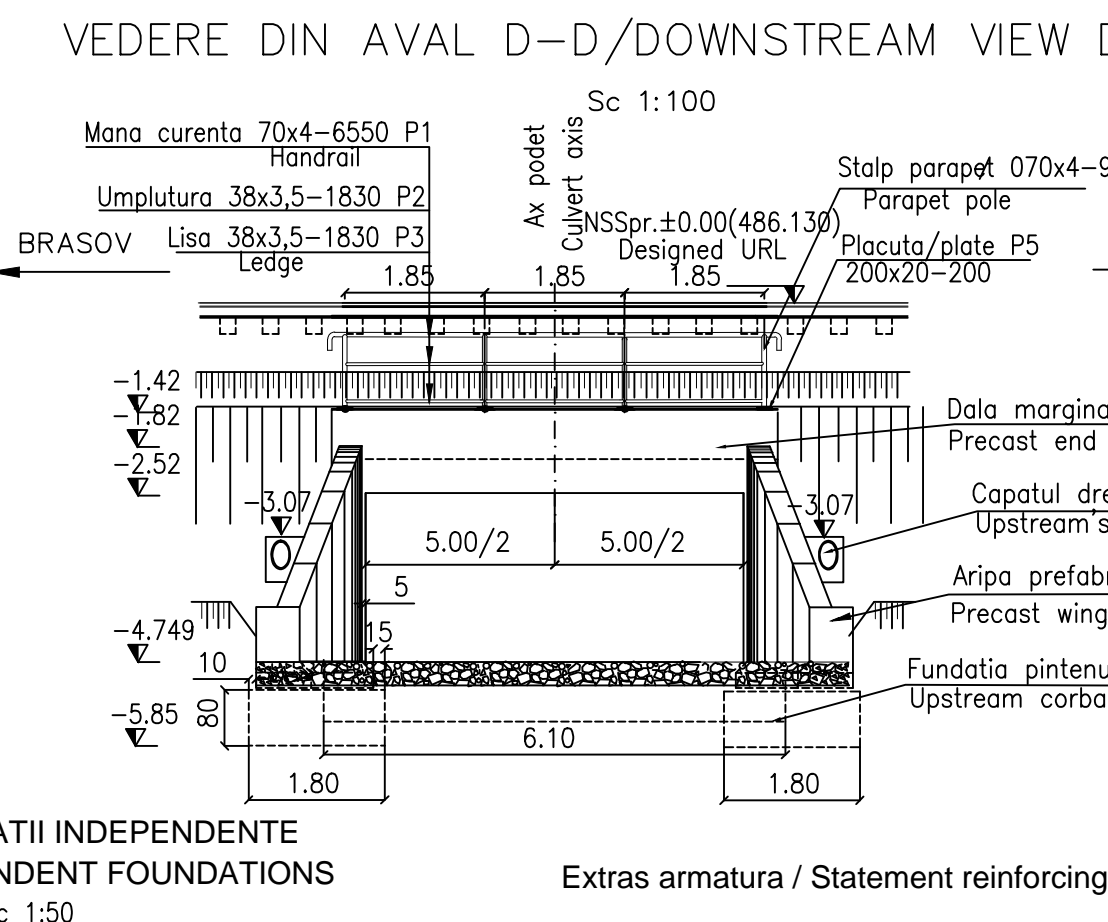
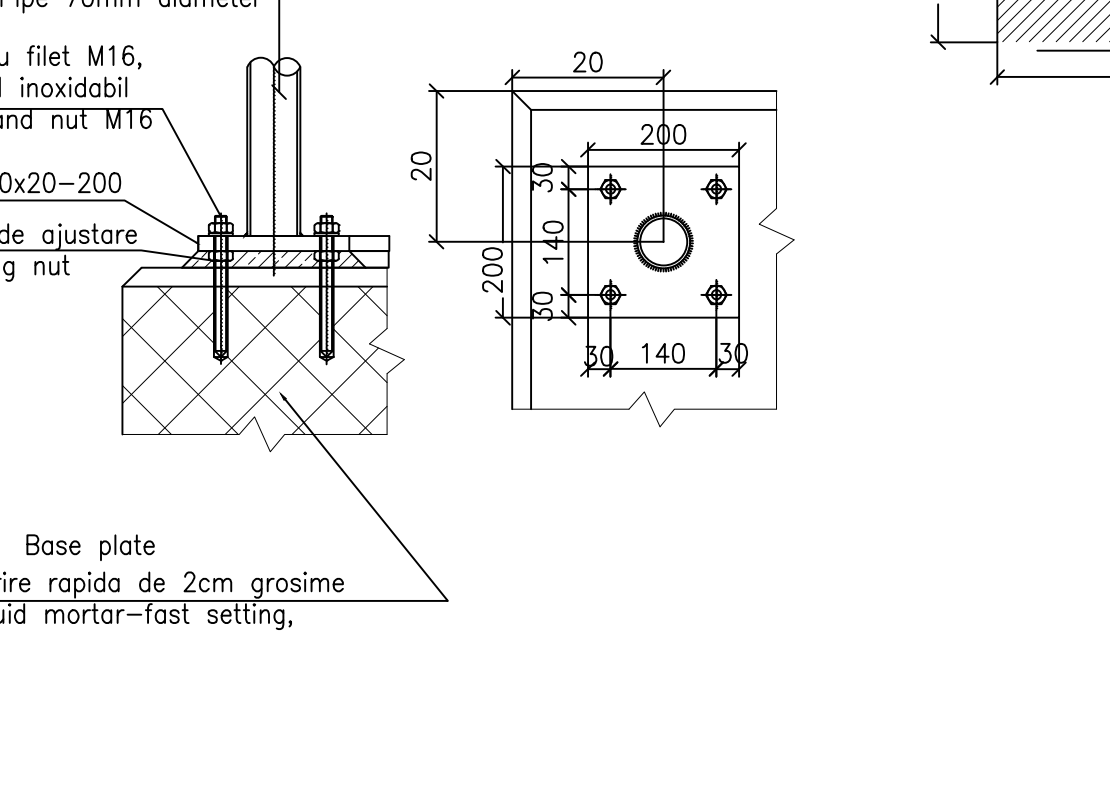
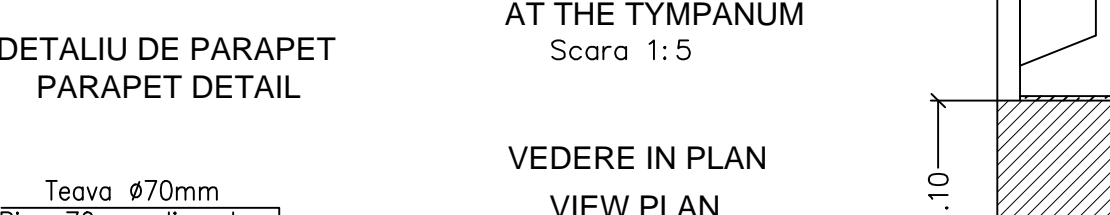
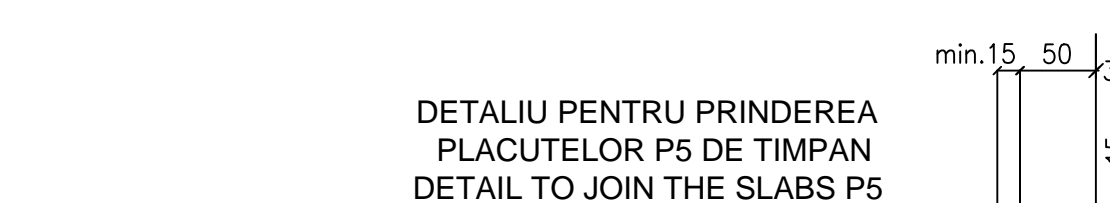
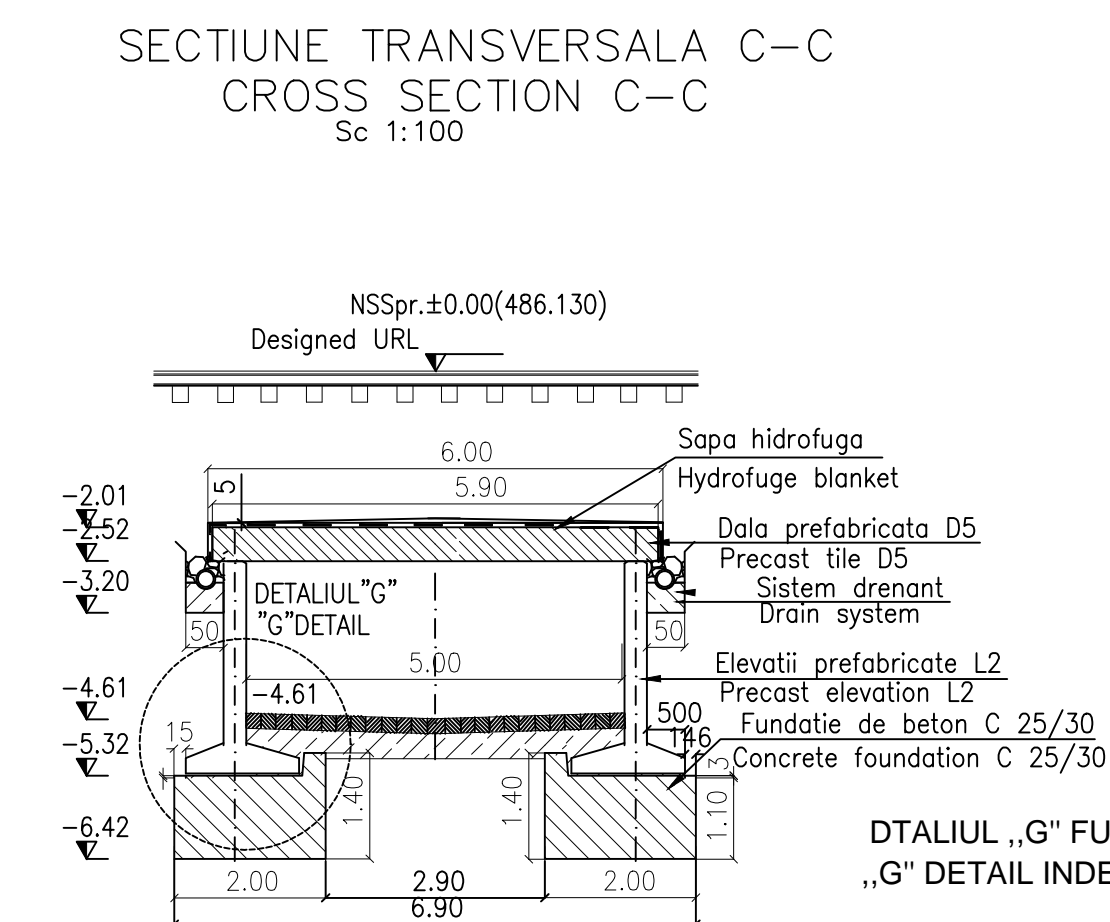
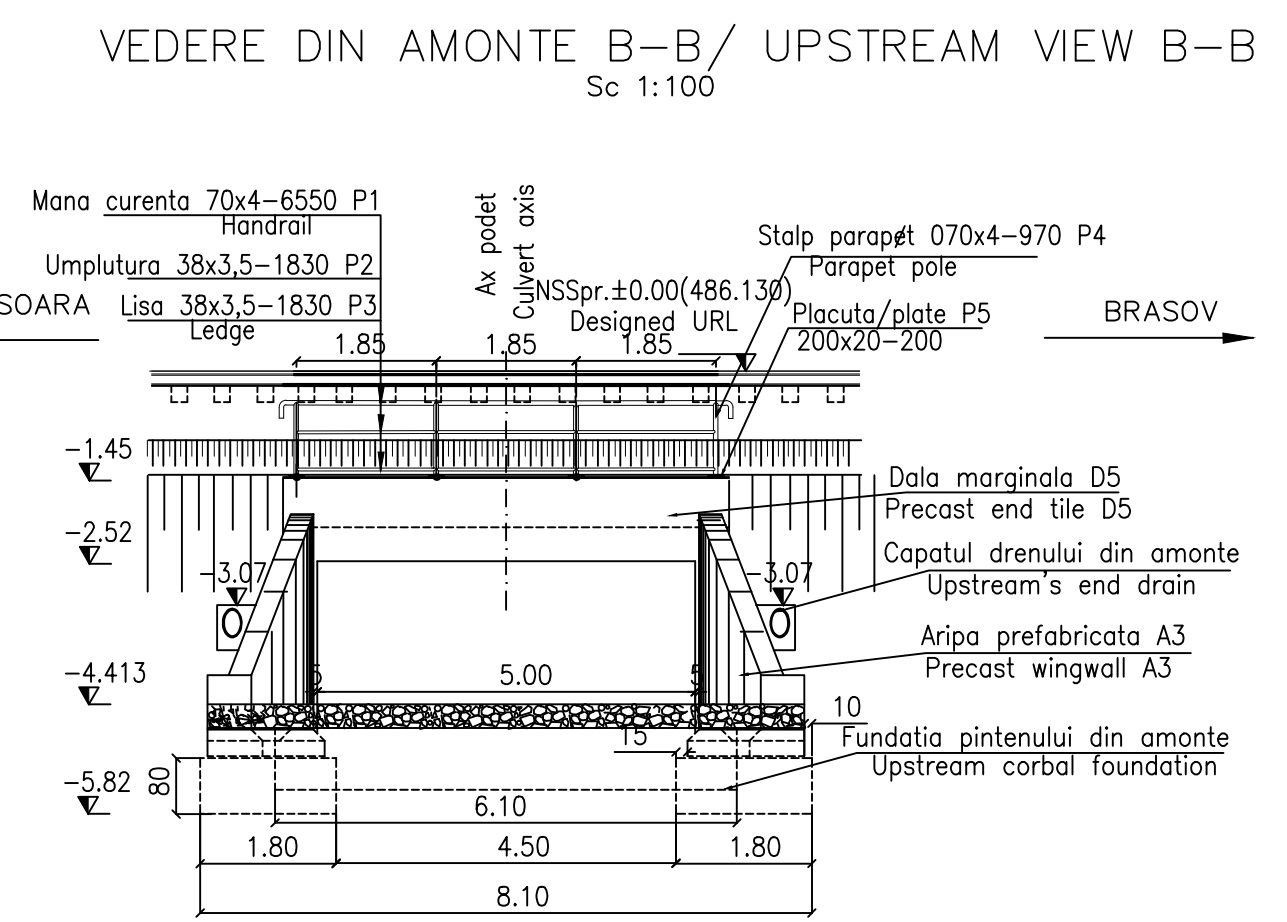
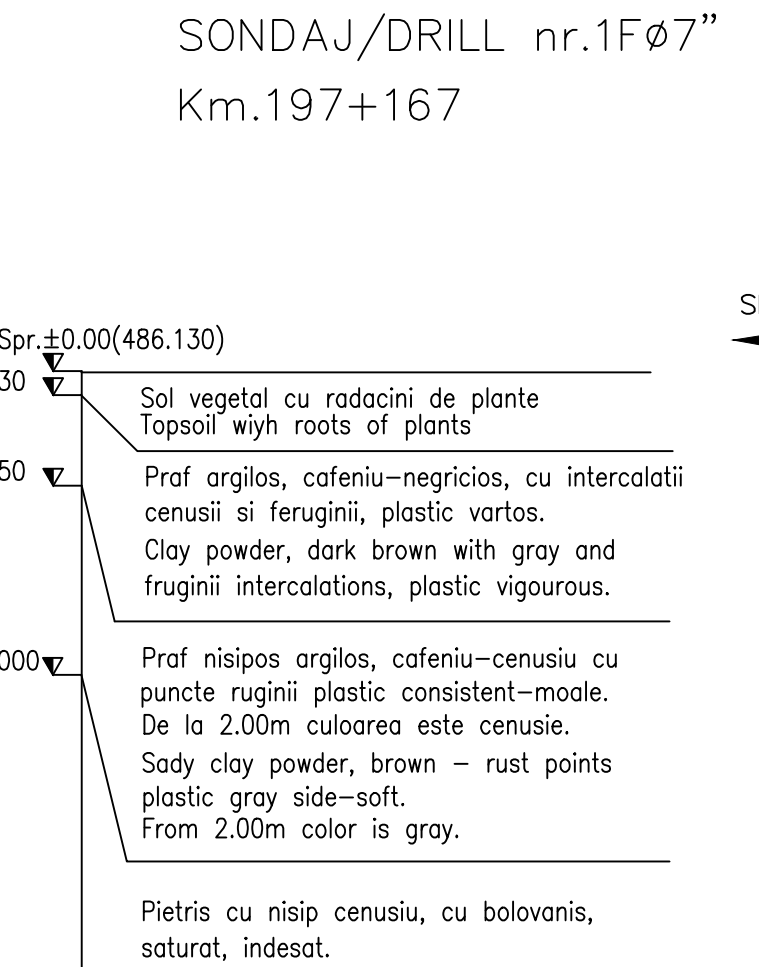
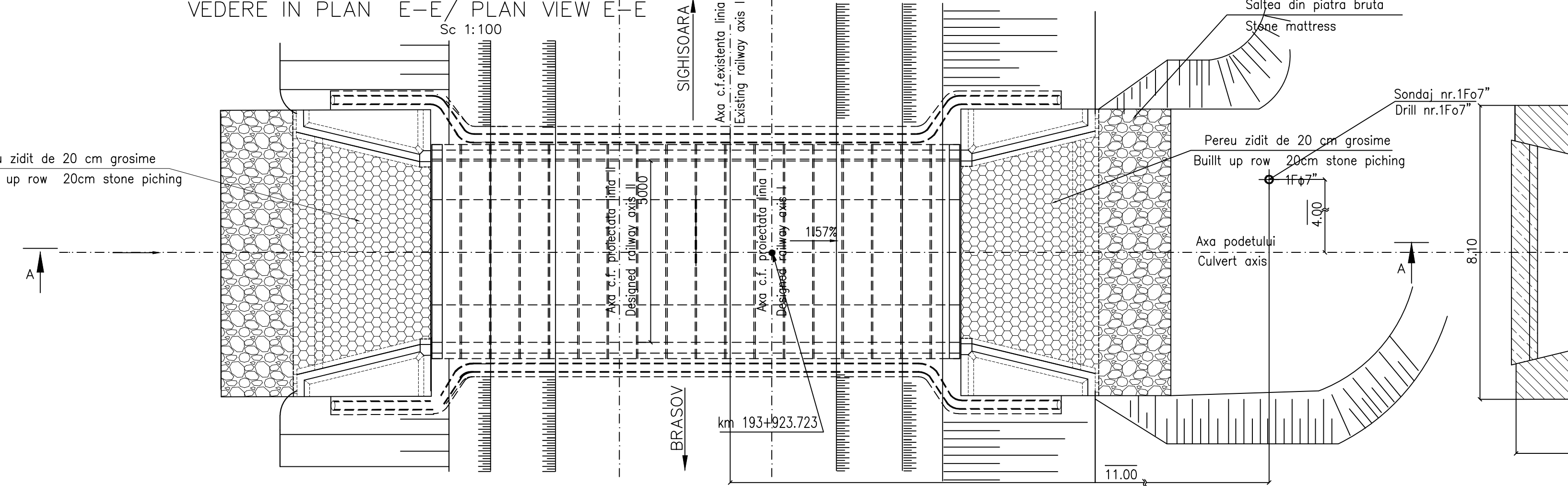
NOTE
 Number of precast sections:
 -Precast end tile D5: -2pcs.
 -Precast tile D5: -8pcs.
 -Precast wingwall A3: -4pcs.
 -Elevations L2: -18pcs

LEGENDA BETOANELOR CONCRETE LIST

- Beton armat in elementele prefabricate
Reinforced concrete in the prefabricated elements
C 35/45 - CEM II A S 32.5 - (XC4+XF3+XA1)
A/C=0.50 - Dmax 22 - Cl 0.20
- Beton monolit, in percu
Concrete cast in the pitching
C 25/30 - CEM II/A - S 32.5 - (XC4+XF3+XA1)
A/C=0.50 - Dmax 32 - Cl 0.20
- Beton simplu in fundatia elementelor prefabricate
Plain concrete in the prefabricated elements
C 25/30 - CEM II/A - S 32.5 - (XF1)
A/C=0.50 - Dmax 32 - Cl 0.20
- Beton simplu de panta si pinten
Plain concrete for slope and in the corbel
C 25/30 - CEM II/A - S 32.5 - XF1
A/C=0.50 - Dmax 32 - Cl 0.20



Cote teren	17.661	14.610	12.510	12.038	9.380	00.000	-5.180	-8.910	-11.10	-17.245
Distante cumulate	17.661	14.610	12.510	12.038	9.380	00.000	-5.180	-8.910	-11.10	-17.245



DTALIU „G” FUNDATII INDEPENDENTE „G” DETAIL INDEPENDENT FOUNDATIONS

Armatura / Reinforced steel	73	Ø10	1650	0.617	1.018	74.31
P6	6520	32.17				
P7	4900	24.48				
Partially total	3300	20.36				
Sudura 2% / Welding 2%					2.94	
TOTAL						149.88

MATERIAL METALIC PENTRU CONFECTIONAREA PARAPETULUI / THE METALLIC MATERIAL TO BUILD PARAPET OF CULVERT

Proz. / Piece	Denumirea materialului / The denomination of the material	Buc. / Section	Lung. / Long. (mm)	kg/ml	kg/buc	kg	
P1	Placuta prindere / Clamping plate	2	70x4	6450	6.51	41.29	83.98
P2	Stalp parapet EN 10297 - E275	6	38x3,5	1850	2.98	5.51	33.08
P3	Mană curentă EN 10297 - E275	6	38x3,5	1850	2.98	5.51	33.08
P4	Umplutura EN 10058	8	70x4	970	6.51	6.32	50.56
P5	Lisa EN 10058 / Ledge	8	200x20	200	31.40	6.28	50.24
Partially total						250.94	
Sudura 2% / Welding 2%						5.02	
TOTAL						256	

NOTA:

- Prezentul plan s-a intocmit pe baza urmatoarelor date:
 -plan de situatie
 -profil in lung
 -profil transversal
 -studiu geotehnic Nr. 1115/12.2./martie 2003
 -fisa podului
 -calcul hidraulic
 -date culesse pe teren
- Podet de 5,00m lumina are suprastructura alcătuita din dale prefabricate D5.
 Elevatia infrastructurii este alcătuita din 9 elemente prefabricate L2 ; fundatia din beton simplu.
- Racordarea podului cu terasamentul se realizeaza
 - in amonte cu aripi prefabricate A3.
 - in aval cu aripi prefabricate A3
- Podetul corespunde la convoiul de calcul UIC (LM71 si SW/2).
 La executie se vor respecta cu stricte prevederile din "Normativul pentru producerea betonului si executarea lucrarilor din beton, beton armat si beton precomprimat. Partea 1: "Producerea betonului" indicativ NE 012/1-2007 si "Normativul pentru producerea betonului si executarea lucrarilor din beton, beton armat si beton precomprimat. Partea 2. Executarea lucrarilor din beton", indicativ NE 012/2-2010, iar verificarea calitatii lucrarilor si receptiunea lor se va face conform normativului C56-1985.
- Daca la executie se vor constata neconcordanțe între situatia existenta pe teren si cea din proiect se va anunta proiectantul.
- Constructia se incadreaza in categoria de importantaB (constructii de importanta deosebita), modelul 1 de asigurare a calitatii si clasa de importanta B, conform HG 766/97.
- Proiectul va fi verificat la exigentele A4.2; B2.2; D2.2.

NOTE:

- This plan has been drawn up based on the following data:
 -lay-out Plan
 -Longitudinal Profile
 -Cross-section Profile
 -Geotechnical Study No.
 -Bridge's File
 -Hydraulic determination
 -Field Data
- The new culvert, 5.00m span shall, the superstructure using precast tiles D5. The elevation of infrastructure using 10 precast elevations L2 with simple concrete in foundations.
- The culverts shall be connected to the embankment as follows:
 - upstream, using prefabricated wings, type A3.
 - downstream, using prefabricated wings, type A3
- The culverts corresponds to the UIC determination convoy (LM71 and SW/2).
- The execution will strictly comply with the provisions of "Practice code for the concrete production and works execution, reinforced and pre-stressed concrete.Part 1: Practice code for concrete production" NE 012/1-2007 and "Practice code for the concrete production and works execution, reinforced and pre-stressed concrete.Part 2: The execution of concrete works." NE 012/2-2010 and the quality and the reception of the works shall be made accordingly to Norm C 56-1985.
- If during the execution, discrepancies are found between the existing situation on site and the situation stated in the project,the designer will be noticed.
- The construction has been classified in B category of importance (high importance constructions), model 1-ensuring the quality and class of importance B according to G.O. 766/97.
- The project will be checked in order to comply with the A4.2; B2.2; D2.2 requirements.

D					
C					
B					
A	11.2011	Revizia 1		Ioan Rentea	
Index	Date	Modificare / Revision	Proiectant / Designer	Aprobat Consultant / Approved Consultant	Aprobat CFR / Approved CFR



CLIENT / CLIENT	CONSULTANT / CONSULTANT	Subcontractant / Subcontractor
GUVERNUL ROMANIEI / ROMANIAN GOVERNMENT	ITALFERR GRUPPO IZSONNE S.p.A. STATO Joint Venture leader	AREX
PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ / EUROPEAN UNION FINANCED PROJECT	Scot Wilson	OBERMEYER PLANEN + BERATER GmbH
	TECNIC Consulting Engineers	

APROBAT / APPROVED	VERIFICAT / CHECKED	DATE	Semn. tur / Signature
Self project / Project manager	Expert Chief / Checking Expert		
Coordinator Sectiune I / Section I Coordinator			

APROBAT / APPROVED	RESPONSABIL SUBCONSULTANT / RESPONSIBIL SUBCONSULTANT	DATE
Subconsultant Responsible	A. Dinulescu Stanciu	07/2011
Proiectant / Designer	Ioan Rentea	07/2011

Reabilitarea liniei de cale ferata Braşov - Simeria, parte componentă a coridorului IV Pan European, pentru circulația trenurilor cu viteză maximă de 160 km/h,
Tronsoanel: Braşov - Sighişoara
 Rehabilitation of the railway line Braşov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h,
Section : Braşov - Sighişoara

Denumire desen / Drawing Title : **INTERVAL FELDIOARA - APATA / FELDIOARA - APATA SECTION**
PODET km 197+350.690 / DISPOZITIE GENERALA
CULVERT Km 197+350.690 / GENERAL LAYOUT

Codificare / Codification System	Scara / Scale	LOT / LOT	Nr./No
E A 5 1 0 1 C 0 8 P A P O 0 1 7 1 0 0 2 1	1:100		01/01