




**DATE HIDRAULICE:**  
 -Inaltimea de apa: h=0,54m  
 -Perimetrul udat: P=3,08m  
 -Aria udata: A=1,08m<sup>2</sup>  
 -Viteza de curgere a apei V=2,30m/s

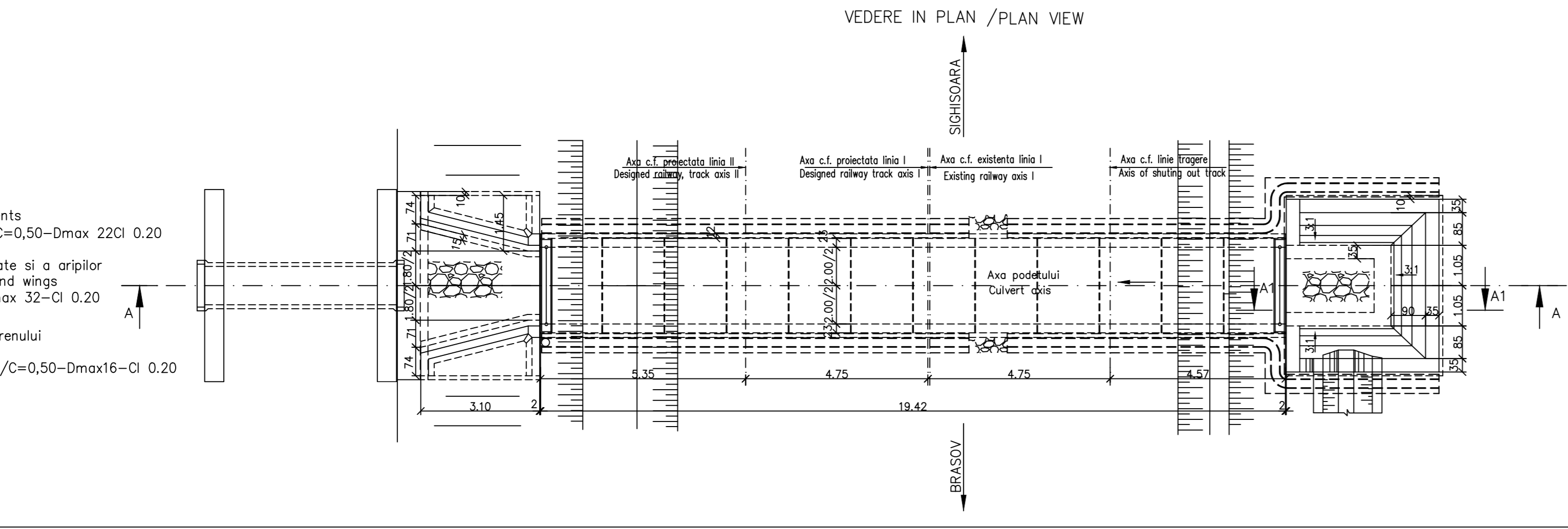
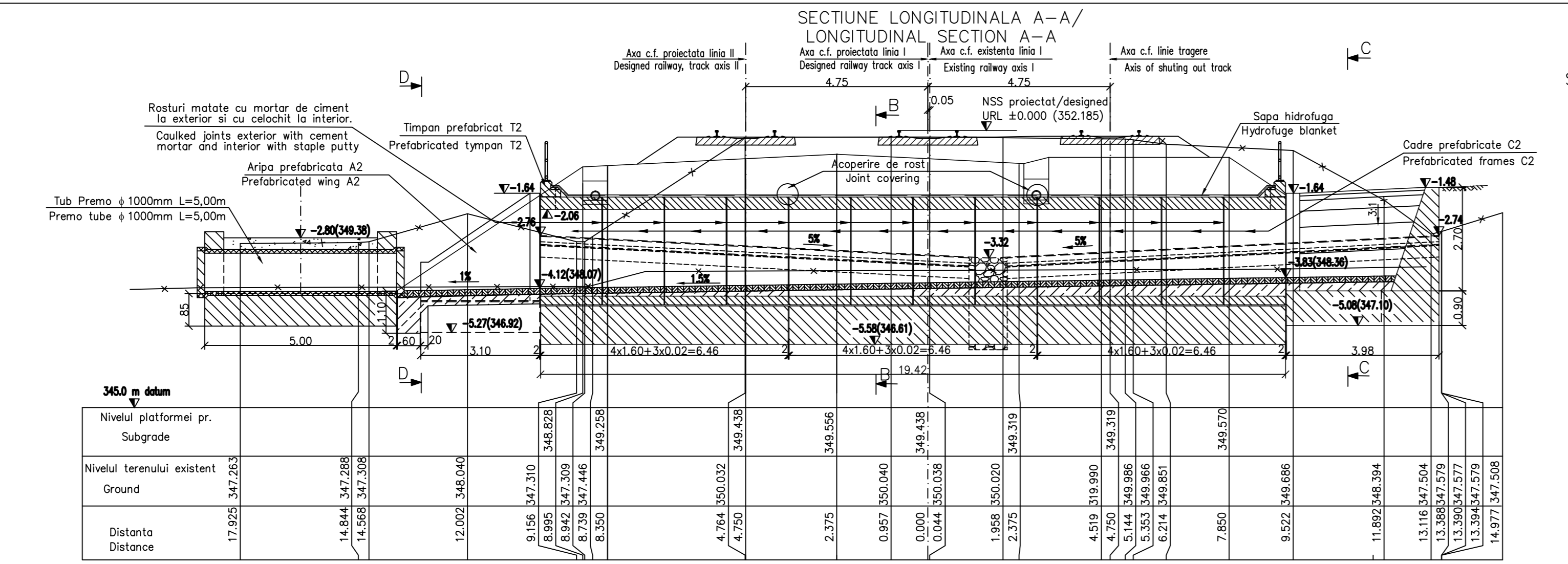
**HIDRAULIC DATA:**  
 -Hydraulic height: h=0,54m  
 -Perimeter: P=3,08m  
 -surface: A=1,08m<sup>2</sup>  
 -Water flow speed: V=2,30m/s

**NOTA**  
 Numar de elemente prefabricate  
 -Cadre prefabricate C2 12buc  
 -Aripi prefabricate A2 2buc.  
 -Timpane prefabricate T2 2buc

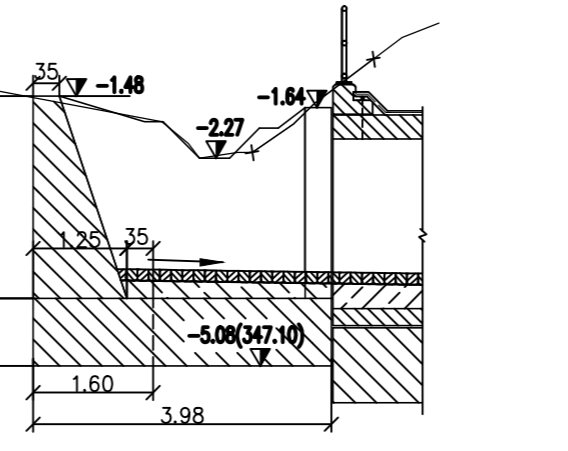
**NOTE**  
 Number of precast section  
 -Prefabricated frames C2 12pcs.  
 -Prefabricated wings A2 2pcs.  
 -Prefabricated tympan T2 2pcs.

**LEGENDA BETOANELOR  
 CONCRETE LIST**

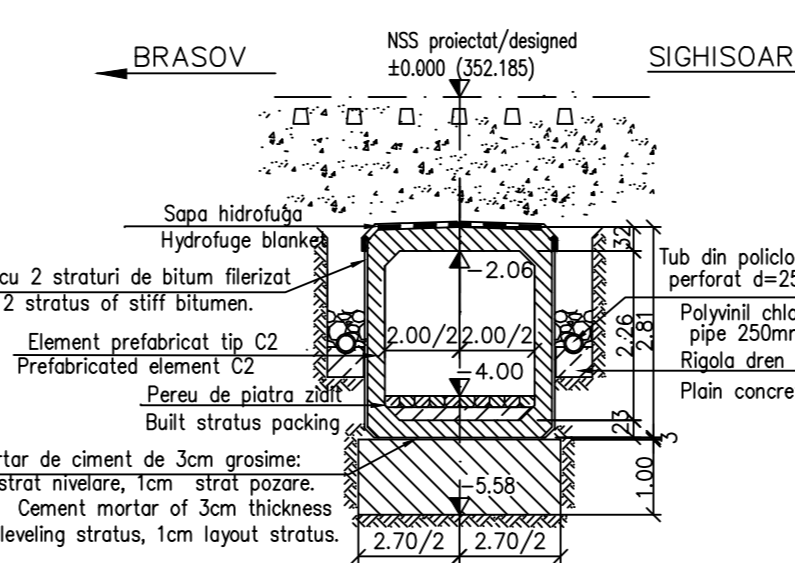
-  Beton armat in elementele prefabricate  
Reinforced concrete in the prefabricated elements  
C35/45-CEM II/A-S32,5-(XC4+XF3+XA1)-A/C=0,50-Dmax 22Cl 0.20
-  Beton simplu in fundatia elementelor prefabricate si a aripilor  
Plain concrete in the prefabricated elements end wings  
C25/30-CEM II/A-S32,5-(XF1)-A/C=0,50-Dmax 32-Cl 0.20
-  Beton simplu de panta in piten si in rigola drenului  
Plain concrete slope and spur the gutter drain  
C 25/30-CEM II/A-S 32,5-(XC4+XF3+XA1)-A/C=0,50-Dmax16-Cl 0.20



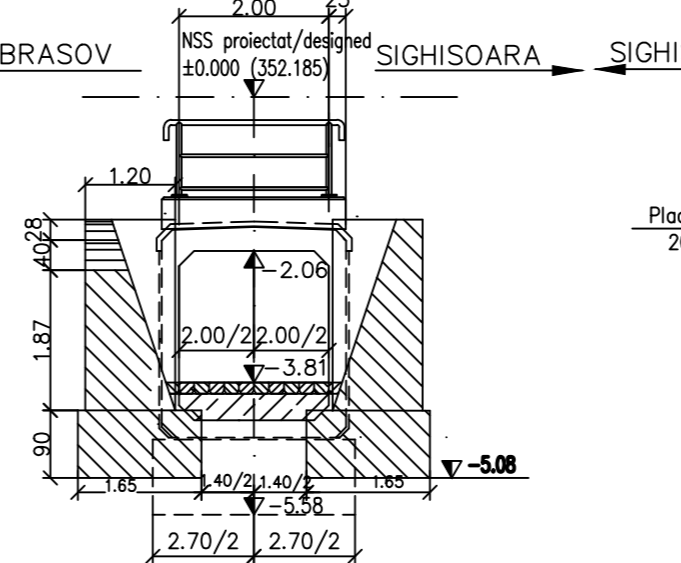
**SECTIONTE LONGITUDINALA A1-A1 /  
 LONGITUDINAL SECTION A1-A1**



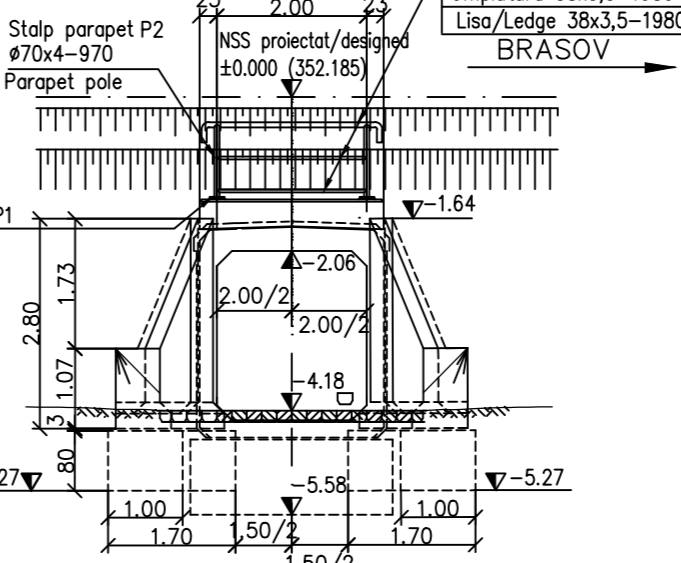
**SECTIONTE TRANSVERSALA B-B /  
 B-B CROSS SECTION**



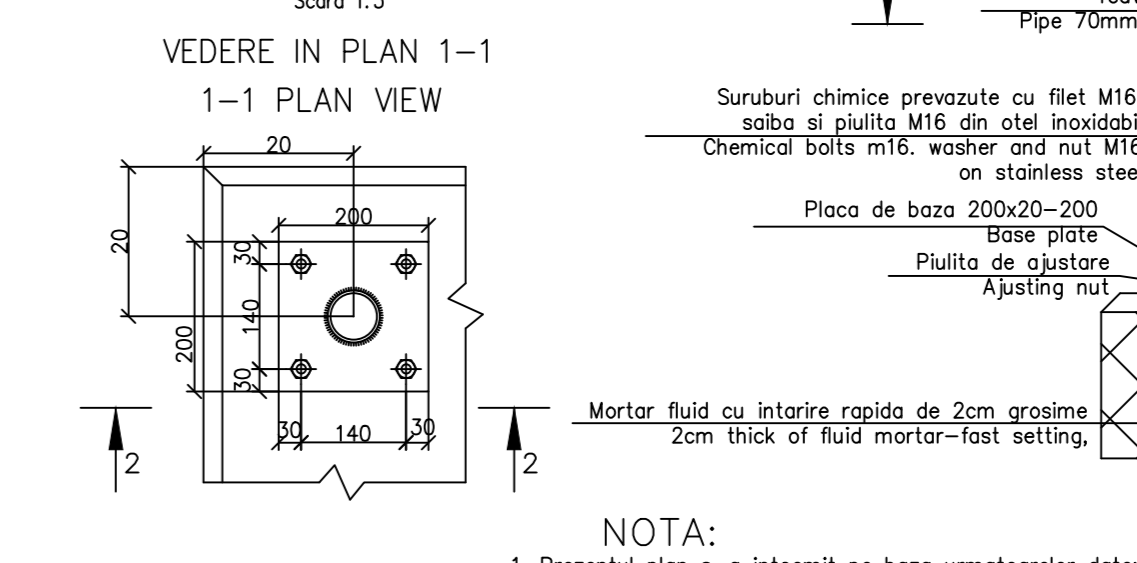
**SECTIONTE TRANSVERSALA C-C /  
 C-C CROSS SECTION**



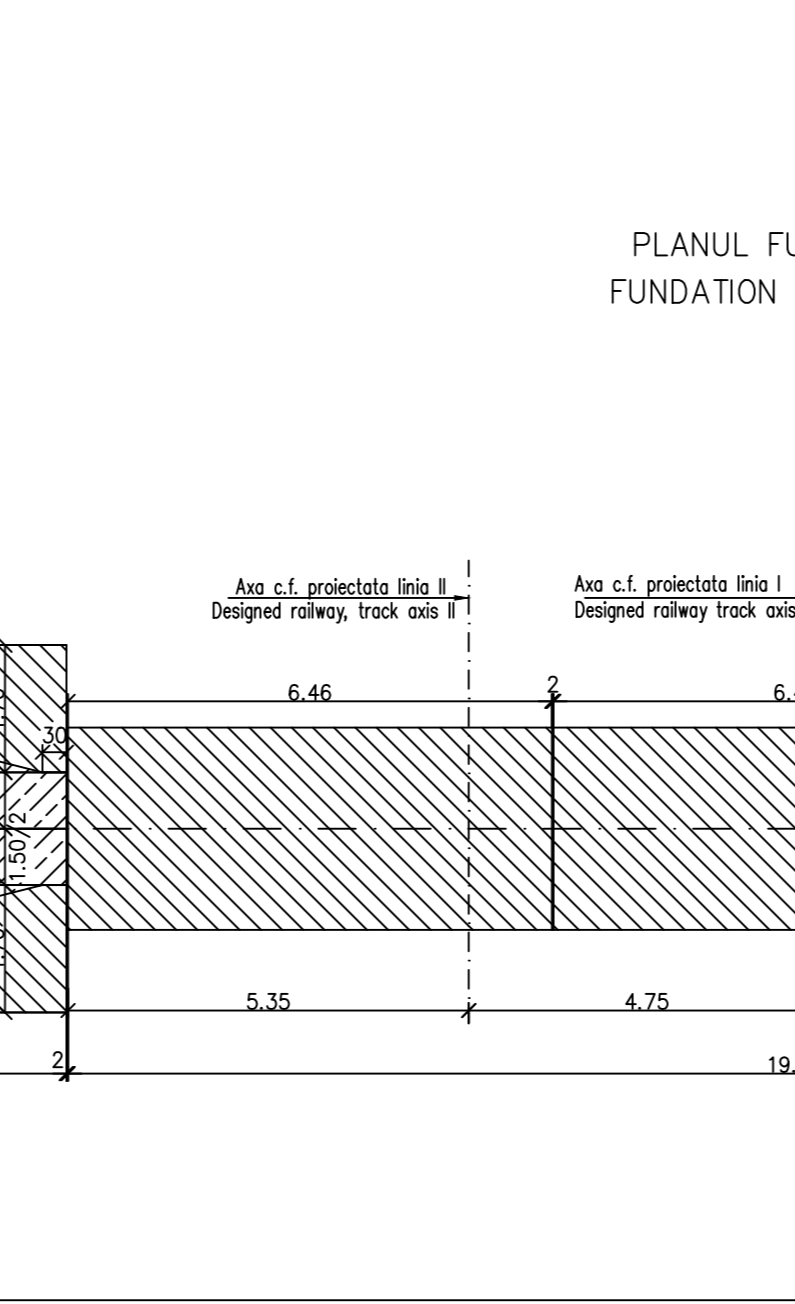
**SECTIONTE TRANSVERSALA D-D /  
 D-D CROSS SECTION**



**DETALIU PENTRU PRINDEREA PLACUTELOR P1 DE TIMPAN /  
 DETAIL TO JOIN THE SLABS P1 AT THE TYMPANUM**



**PLANUL FUNDATIILOR /  
 FOUNDATION PLAN SECTION**



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

Poz. / Piece	Denumirea materialului / The denomination of the material	Buc. / Section	Lung. / Long. / (mm)	Sectiune /Section		
				kg/ml	kg/buc	kg
P1	Placuta prindere / Clamping plate	4	200x20	200	31.40	125.60
P2	Stalp parapet EN 10297 - E275 / Parapet pole	4	70x4	970	6.51	25.26
P3	Mana curenta EN 10297 - E275 / Handrail	2	70x4	2900	6.51	37.76
P4	Umplutura EN 10058 / Filling	2	38x3,5	1980	2.98	11.80
P5	Lisa EN 10058 / Ledge	2	38x3,5	1980	2.98	11.80
Total partial					111.74	
Partially total					111.74	
Sudura 2% / Welding 2%					2.24	
TOTAL					115	

**NOTA:**

- Prezentul plan s-a intocmit pe baza urmatoarelor date:  
-plan de situatie; profil in lung; profil transversal; fisă podului; calcul hidraulic; date culese pe teren.
- Podetului corespunde la convectoarele de calcul UIC (LM71 si SW/2)
- La executie se vor respecta cu strictitate prevederile din "Normativ pentru producerea betonului si executarea lucrarilor din beton, beton armat si beton precomprimat. Partea 1: Producerea betonului", indicativ NE 012/1-2007 si "Normativ 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 receptionarea lor se va face conform normativului C56-1985.
- Daca la executie se vor constata neconcordante intre situatia existenta pe teren si cea din proiect se va anunta proiectantului.
- Construcția se încadrează în categoria de importanță B (construcții de importanță deosebită), modelul 1 de asigurare a calitatii si clasa de importanță B, conform HG 766/1997.
- Proiectul va fi verificat la exigentele A4.2; B2.2; D2.2.
- Se atrage in mod deosebit atentie asupra obligativitatii rezemarii elevatiilor prefabricate pe blocul de fundatie prin intermediul unui strat de mortar de ciment pentru a se realiza un contact perfect pe toata suprafata intre talpa prefabricatului si fundatie. Se interzice rezemarea directa fara strat de mortar de ciment.

**NOTE:**

- This plan has been drawn up based on the following data:  
-Lay-out Plan/longitudinal profiles/cross-section profile, bridge's file hydraulic determination; field data.
- The culvert corresponds to the UIC determination convays (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 notified.
- The construction has been classified in B category of importance (high important 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.
- Particular attention is drawn on binding prefabricated elevations settlement on block foundation through a layer of cement mortar to achieve a perfect contact over the entire surface between precast and foundation base.Propping is prohibited without direct layer of cement mortar.

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Indice / Index	Data / Date	Modificari / Modification/Revision	Proiectant / Designer	Proiectant / Designer	Proiectant / Designer
A	11.2011	Revizia 1	Elena Radu	Elena Radu	Elena Radu



**CLIENT / CLIENT**  
 GUVERNUL ROMANIEI / ROMANIAN GOVERNMENT  
 PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ / EUROPEAN UNION FINANCED PROJECT  
 C.N.C.F. "C.F.R." - S.A.



CONSULTANT / CONSULTANT		Data / Date	Semnătură / Signature
Proiectant / Elaborated	Sef proiect / Project manager	R. Liuzza	
Verificat / Checked	Expert Cheie / Checking Expert	V.Kalidromitis	

SUBCONTRACTANT / SUBCONTRACTOR		Data / Date	Semnătură / Signature
Proiectant / Elaborated	Responsabil Subcontractant / Subcontractant Responsible	A. Dinulescu Stanciu	

Reabilitarea liniei de cale ferata Braşov - Simeria, parte componentă a coridorului IV Pan European, pentru circulația trenurilor cu viteză maximă de 160 km/h,  
**Tronsonul : 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 :  
**STATIA SIGHISOARA / SIGHISOARA STATION**  
**PODET - KM 282+566.782 / KM 282+566.782 - CULVERT**  
**DISPOZITIE GENERALA / GENERAL LAYOUT**

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