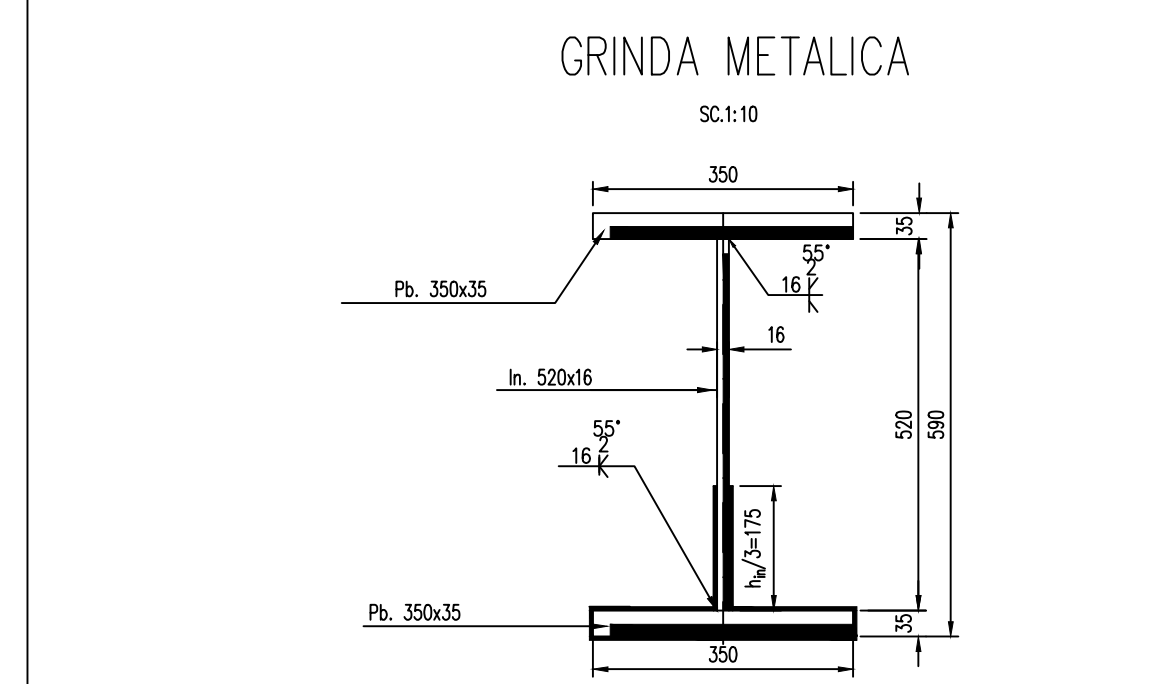
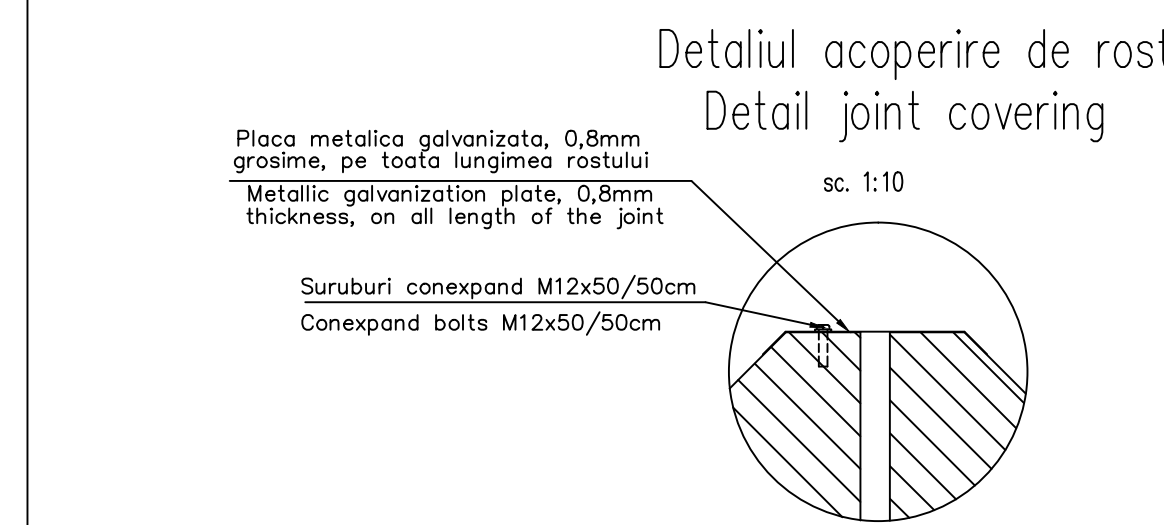


LEGENDA BETOANELOR/CONCRETE LIST

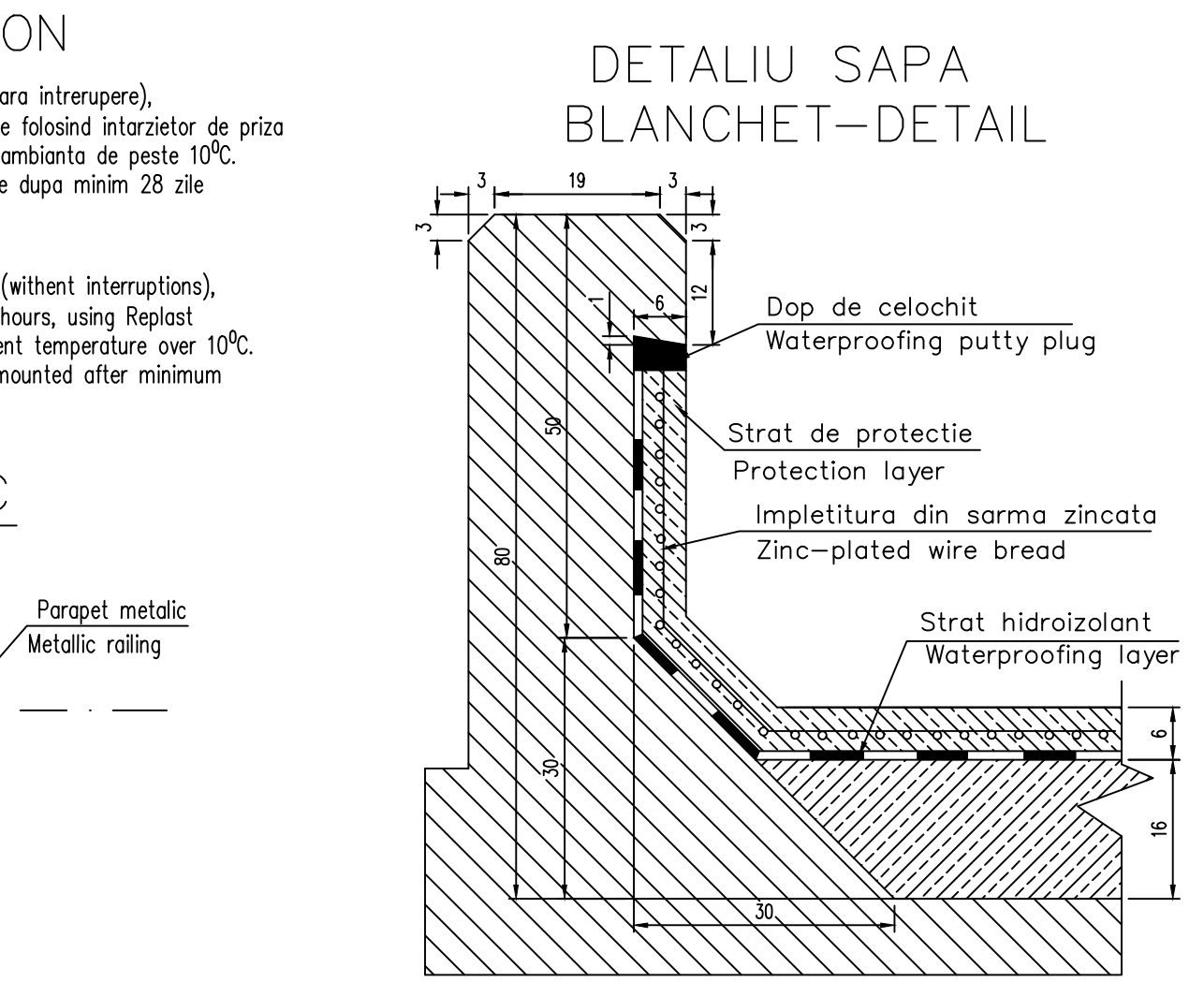
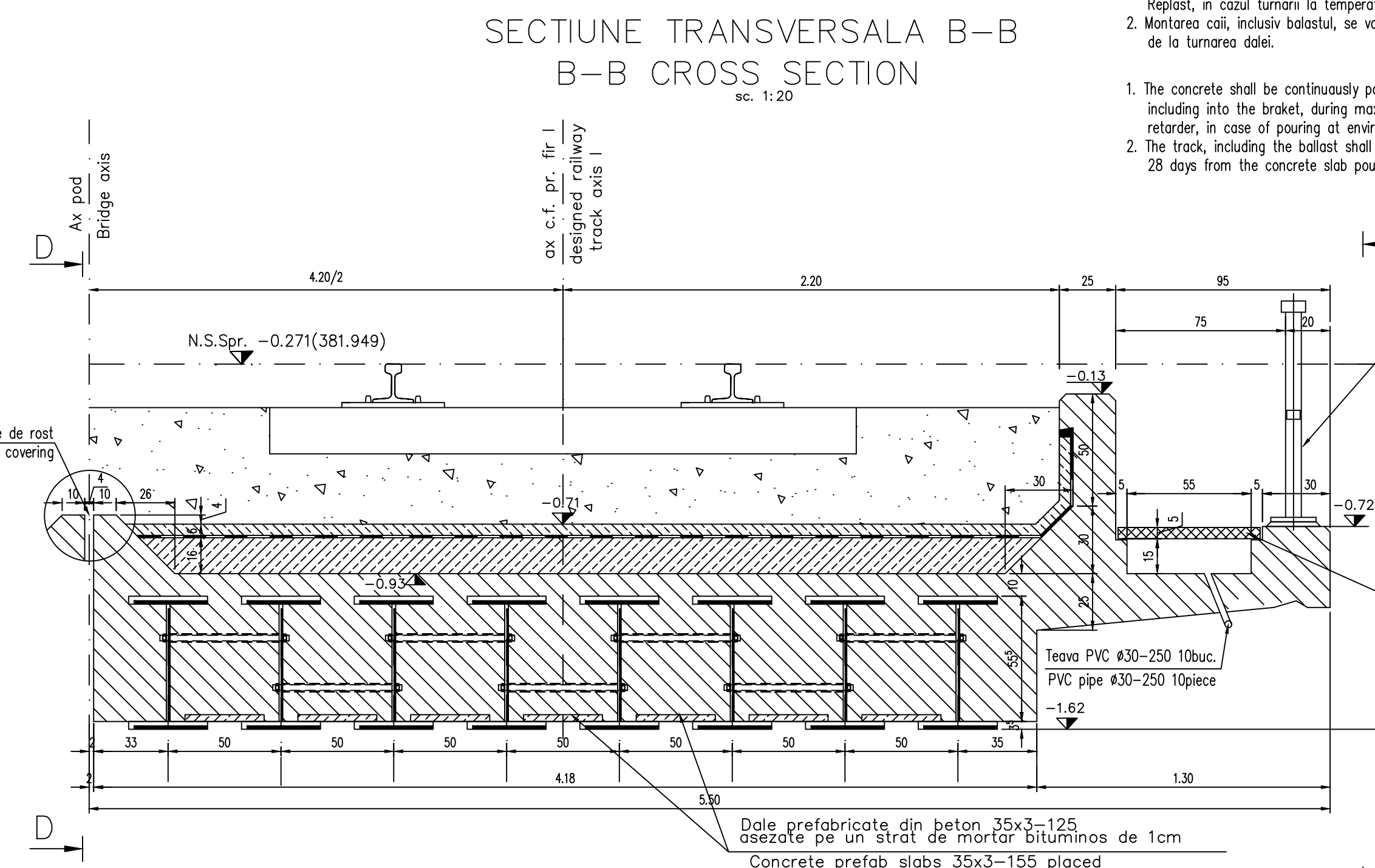
	Beton armat in grinzi inglobate de clasa Concrete in bearings and in the deck slabs C 30/37-CEM II/A-S 42,5-(XC4+XF3+XA1)-A/C=0,50-Dmax.16-CI 0,20
	Beton de panta. Concrete in the protection layer of waterproofing system. C 25/30-CEM II/A-S 32,5-(XF3)-A/C=0,55-Dmax.16-CI 0,20
	Beton in stratul de protectie a hidroizolatiei Concrete in the protection layer of waterproofing system C 25/30-CEM II/A-S 32,5-(XC4+XF3)-A/C=0,50-Dmax.16-CI 0,20
	Beton in dalele prefabricate pentru trotuare Concrete in the prefab slabs required for the sidewalks C 25/30-CEM II/A-S 32,5-(XC4+XF3+XA1)-A/C=0,50-Dmax.22-CI 0,20
	Beton in dalele prefabricate pentru grinzi inglobate in beton Concrete in the prefab slabs required for the decks made out of steel girders embeded in to concrete C 35/45-CEM II/A-S 42,5-(XC4+XF3+XA2)-A/C=0,50-Dmax.8-CI 0,10

In cazul in care temperatura in timpul turnarii este scazuta, se vor folosi cimenturile cu rezistenta initiala mare, R si aditivi acceleratori, iar in cazul turnarii pe timp cald, cimenturile cu rezistenta initiala uzuala, N si aditivi intarziatori (conf.NE 012/2-2010 si tabelului 2 din SR EN 197-1:2002).
When the temperature during the casting is low, cements with high initial resistance, R and accelerating additives shall be used and when it is cast during warm weather, cements with common initial resistance, N and delaying additives shall be used (according to the norm NE 012/2-2010 and table 2 for the SR EN 197-1: 2002).

D					
C					
B					
A	12.2011	Revizia 1 1 Revision	Dinu Andreea	Proiectant Designer	Proiectant Approved Consultant
Indice Index	Data Date	Modificari Modification/Revision	Proiectant Designer	Proiectant Approved Consultant	Proiectant Approved CFR



MATERIALE
(- OL37 EP STAS 12187-88 elementele grinzilor metalice.)
- S275J2G3 EN 10025/2004



Beton: - C30/37 suprastructura/superstructura
Concrete: - C30/37 suprastructura/superstructura
Tipul grinzilor: - grinzi metalice sudate/steel welded girders
Beams type: - OL 37-EP S275J2G3 (EN 10025/2004)
Otel pentru grinzi: - OL 37-EP S275J2G3 (EN 10025/2004)
Steel for the beams: - S355
Armatura: - S355
Reinforcement: - min. 4cm expunere in aer/air exposed
Strat de acoperire: - calculat cu convoiuil T8.5, verificat cu
Concrete cover: - convoiuil UIC 71
Clasa de incarcare: - Metal sau lemn/Steel or wood
Load class: - Metal sau lemn/Steel or wood
Cofraj: -
Formwork: -

ATENTIE /ATTENTION

- Turnarea betonului se va face continuu (fara intrerupere), inclusiv in consola, in timp de max. 5 ore folosind intarziator de prize Replast, in cazul turnarii la temperatura ambianta de peste 10°C.
- Montarea caili, inclusiv balastul, se va face dupa minim 28 zile de la turnarea dalei.

1. The concrete shall be continuously pored (withnt interruptions), including into the broket, during max. 5 hours, using Replast retarder, in case of pouring at environment temperature over 10°C.
2. The track, including the ballast shall be mounted after minimum 28 days from the concrete slab pouring.

NOTA

- La executia in uzina a grinzilor metalice sudate se vor respecta cu strictete prevederile STAS 9407-75.
- In uzina se va aplica o protectie anticoroziva pe tapile inferioare si pe o treime din inima grinzilor metalice.
- Protectia anticoroziva se va executa dintr-un strat de baza alcuitat dintr-o pelicula de zinc de 80µm grosime si doua straturi de nivelis poliuretanic, fiecare de 65µm.
- Stratul de baza si un nivelis poliuretanic se vor aplica in uzina, urmand cu ultimul strat poliuretanic sa fie aplicat pe santier dupa finalizarea lucrarilor la suprastructura.
- Pregatirea suprafetelor metalice in vederea aplicarii procedurilor de protectie anticoroziva se face prin:
-Perierea de ruzina cu ajutorul unor peri de sarma.
-Spalarea suprafetelor metalice.
-Degresarea cu solventi organici prin stergere sau cu emulsi.
-Dupa degresare se spala cu jet de apa pentru indepartarea urmatoar de detergeni. Solutia pentru degresare va fi aleasa astfel incat sa nu afecteze mediul.
Curatrea suprafetelor se va face conform gradului SA 1 1/2.

NOTE

- The provisions STAS 9407-75 will be strictly observed when the welded metallic girders are manufactured in the factory.
- In the plant, corrosion protection will be applied on the lower flanges and on one third of the web of metallic girders.
- The protection against corrosion will consist in a primary layer made of a zinc membrane (80µm thickness) and two polyurethane covering layer, each of 65µm thickness.
- The primary layer and the first polyurethane covering layer will be applied in the factory and the second polyurethane layer will be applied on site, after completing the superstructure works. Finalizarea lucrarilor la suprastructura.
- Preparing the metallic surfaces in order to apply the corrosion-proof procedures shall be made by:
-Rust removal using wire brushes.
-Washing the metallic surfaces.
-Organic solvent degreasing by wiping or using emulsions.
-After degreasing, the surface is washed by water jet to eliminate the detergent stains. The solution selected for degreasing shall not affect the environment.
Cleaning the surfaces is made according to the SA 1 1/2.

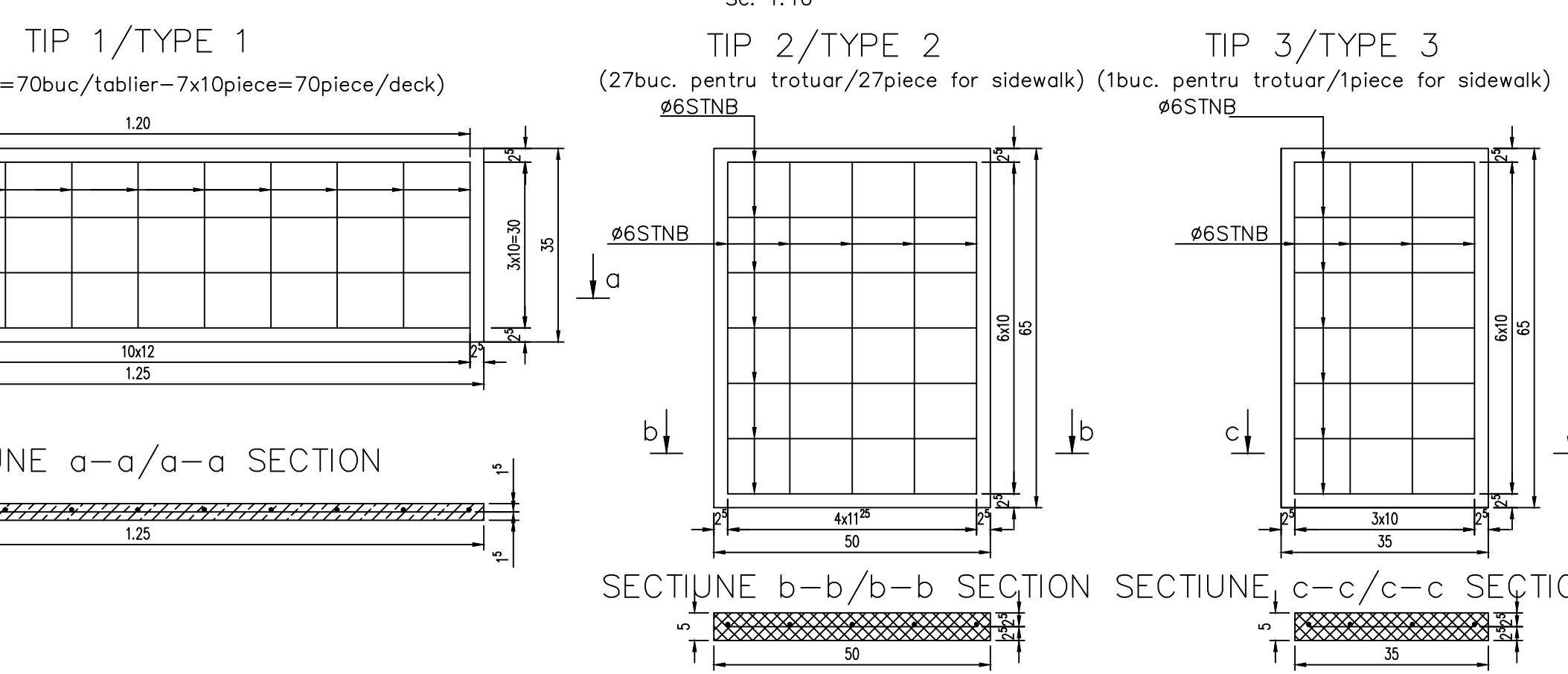
NOTA

- Prezentul plan s-a intocmit pe baza Dispozitiei Generale
- Toate coturile betonului se vor tesii 25/25mm.
- La executie se vor respecta cu strictete 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 receptiunea lor se va face conform normativului CS6-1985
- Constructia se incadreaza in categoria de importanta B (constructii de importanta deosebita), modelul 1 de asigurare a calitatii si clasa de importanta B, conform HG 766/1997.
- Proiectul va fi verificat la exigentele A4.2; B2.2; D2.2.

NOTE

- This plan was drawn up based on the General Disposition
- All concrete corners will be chamfered 25/25mm.
- The execution will strictly comply with the provisions of "Norm for concrete production and works execution, reinforced and pre-stressed concrete-Part 1: Practice code for concrete production NE 012/1-2007 and "Norm 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.
- 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.

DALE PREFABRICATE DIN BETON ARMATE CU S.T.N.B. CONCRETE PREFAB SLABS REINFORCED WITH S.T.N.B.



EXTRAS DE ARMATURA STNB PENTRU UN TABLIER DE CALE FERATA SIMPLA TABLE FOR REINFORCEMENTS STNB FOR SINGLE YRAK RAILWAY DECK

TIP /TYPE	TIP ARMATURA TYPE REINFORCEMENT	Nr. BUC. No. PIECE	kg/m	m/buc. m/piece	kg
TIP 1 TYPE 1	STNB 6 G.Q.283	70	0.222	8.10	130,00
TIP 2 TYPE 2	STNB 6 G.Q.283	27	0.222	6.15	37,00
TIP 2 TYPE 2	STNB 6 G.Q.283	1	0.222	4.50	1,00
TOTAL					168,00kg

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GUVERNUL ROMANIEI ROMANIAN GOVERNMENT
PROIECT FINANTAT DE UNIUNEA EUROPEANA EUROPEAN UNION FINANCED PROJECT

CLIENT / CLIENT

CFR
C.N.C.F. "C.F.R." - S.A.

ITALFERR GRUPA FERROVIE ROMANE
Scott Wilson
OBERMEYER PLANEN + BERATEN GmbH
TECNIC Consulting Engineers

CONSULTANT / CONSULTANT

Proiectant Designer	R. Liuzza	Data Date	Semnatura Signature
Coordonator Sectiune 1 Section 1 Coordinator	C. Gambelli		
Expert Chief Checking Expert	V. Kallidromitis		

SUBCONTRACTANT / SUBCONTRACTOR

Responsabil Subconsultant Subconsultant Responsible	A. Stanciu - Dinulescu	11.2011	
Proiectant Designer	Dinu Andreea	11.2011	

Reabilitarea liniei de cale ferata Brasov - Simeria, parte componenta a coridorului IV Pan European, pentru circulatia trenurilor cu viteza maxima de 160 km/h, **Tronsonul : Brasov - Sighisoara**
Rehabilitation of the railway line Brasov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h, **Section : Brasov - Sighisoara**

Denumire desen / Drawing Title : **INTERVAL / SECTION ARCHITA - VANATORI POD / BRIDGE Km 267+963.152 D=12.00m+35.00m+12.00m**

COFRAJ SUPRASTRUCTURA LINIA 1 - TABLIER 3 SUPERSTRUCTURE SHUTTERING RAILWAY 1- DECK 3

Codificare / Codification System	Scara / Scale 1:20	LOT / LOT	Nr. / No 01 / 01
E A S I 0 1 E 1 6 B B P V 0 4 0 3 0 1 1 1			