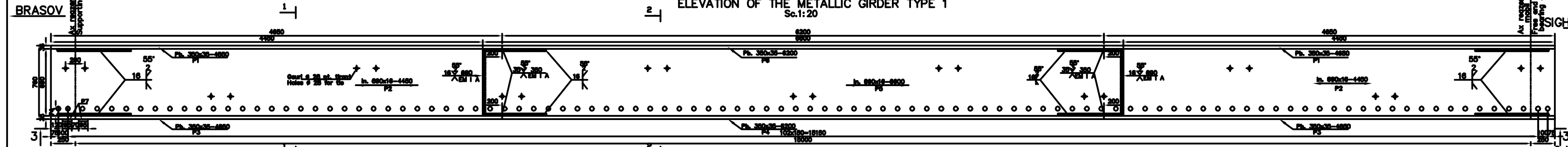
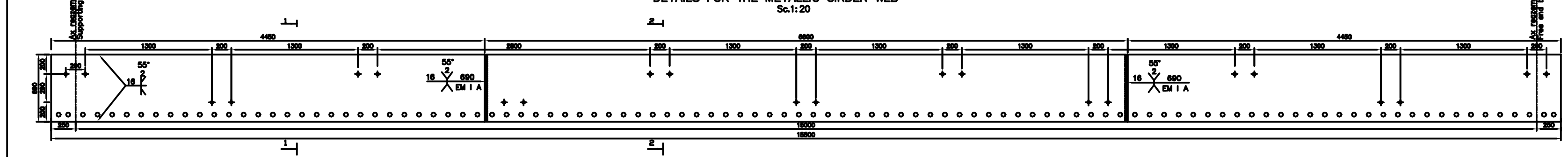
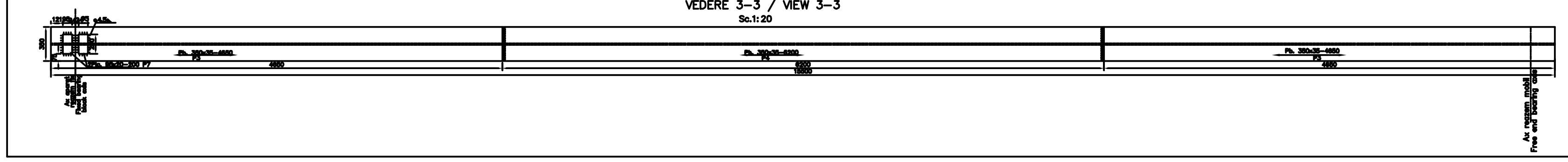
ELEVATIE GRINDA METALICA TIP 1
ELEVATION OF THE METALLIC GIRDER TYPE 1
Sc.1:20



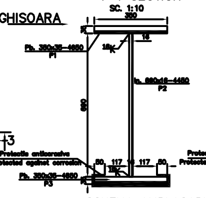
DETALII PENTRU INIMA GRINZII METALICE
DETAILS FOR THE METALLIC GIRDER WEB
Sc.1:20



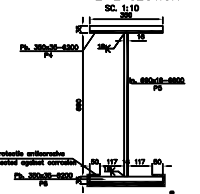
VEDERE 3-3 / VIEW 3-3
Sc.1:20



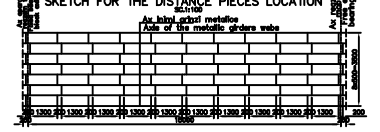
SECTIUNE 1-1
1-1 SECTION
SC. 1:10



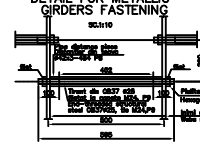
SECTIUNE 2-2
2-2 SECTION
SC. 1:10



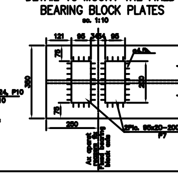
SCHEMA AMPLASARII DISTANTIERILOR
SKETCH FOR THE DISTANCE PIECES LOCATION
SC.1:100



DETALIU DE PRINDERE A GRINZILOR METALICE
DETAIL FOR METALLIC GIRDERS FASTENING
SC.1:10



DETALIU DE MONTARE PLACUTE APARAT DE REAZEM FIX
DETAIL TO MOUNT THE FIXED BEARING BLOCK PLATES
sc. 1:10



EXTRAS DE MATERIAL PENTRU O GRINDA METALICA OL37-EP
MEASURING MATERIAL FOR UNE METALLIC GIRDERS OL37-EP

Poz. Pos.	Denumire Name	Dimensiuni Dimension	Nr. buc. asemenea Pieces	Greutate, Weight OL37 EP kg/ml	kg/buc.	Total(kg)
P1	Pb. superioara Upper band steel	350x35-4650	2	96.163	447.160	894.320
P2	Inima Web	690x16-4450	2	86.664	385.660	771.320
P3	Pb. inferioara Lower band steel	350x35-4650	2	96.163	447.160	894.320
P4	Pb. inferioara Lower band steel	350x35-6200	1	96.163	596.220	596.220
P5	Inima Web	690x16-6600	1	86.664	571.990	571.990
P6	Pb. superioara Upper band steel	350x35-6200	1	96.163	596.220	596.220
P7	Placute ap.fix	95x20-200	2	14.915	2.983	6.00
					Total partial	4330.390
					Spor 3% pt. sudura	130.00
					Total pt. 1buc. grinda	4460.390

TOTAL PENTRU UN TABLIER: 8 grinzi x 4330.39kg=35683.12kg
TOTAL PENTRU 2 TABLIERE: 2 x 8 grinzi x 4330.39kg=71366.24kg
TOTAL FOR 1 DECK: 8 girders x 4330.413kg=35683.12kg
TOTAL FOR 2 DECKS: 2 x 8 girders x 4330.39kg=71366.24kg

EXTRAS DE MATERIAL PENTRU SOLIDARIZAREA GRINZILOR METALICE PENTRU UN TABLIER DE CALE FERATA SIMPLA
TABLE OF MATERIALS TO JOIN THE METALLIC GIRDERS FOR SINGLE TRACK RAILWAY BRIDGE DECK

Poz. Pos.	Denumire Name	Dimensiuni Dimension	Nr. buc. asemenea Pieces	Greutate, Weight OL37 EP kg/ml	kg/buc.	Total(kg)
P8	Distantier teava	ø42x3-484	49	2.88	1.40	69.00
P9	Tirant OB 37	ø25, L=595	49	3.85	2.29	113.00
P10	Piulite	M24	98	–	0.10	10.00
P11	Saibe	M24	98	–	0.023	2.50
					Total (kg)	195.00

TOTAL POD (2 TABLIERE): 2 x 195kg=390kg
TOTAL BRIDGE (2 DECKS): 2 x 195kg=390kg

ELEMENTE DE ASAMBLARE	ASSEMBLY ELEMENTS
-Piulita M24 STAS 4071-88 gr.8	-Nut M24 STAS 4071-88 gr.8
-Saiba STAS 5200/4-91-24-OL 34	-Washer STAS 5200/4-91-24-OL 34

NOTA
1.La executia in uzina a grinzilor metalice sudate se vor respecta cu strictete prevederile STAS 9407-75.
2.In uzina nu se va aplica decat protectia anticoroziva a talpilor inferioare ale grinzile metalice.
3.Protectia anticoroziva a grinzilor metalice se va face pe suprafata expusa mediului inconjurator, plus 5cm adancime din suprafata inglobata in beton.
Protectia anticoroziva se va executa dintr-un strat de baza alcatuit dintr-o pelicula de zinc de 80μm grosime si doua straturi de invelis poliuretanic, fiecare de 85μm.
Stratul de baza si un invelis poliuretanic se vor aplica in uzina, urmand ca ultimul strat poliuretanic sa fie aplicat pe santier dupa finalizarea lucrarilor la suprastructura.
4.Pregatirea suprafetelor metalice in vederea aplicarii procedeelor de protectie anticoroziva se face prin:
-Perierea de rugina cu ajutorul unor perii de sarma.
-Spalarea suprafetelor metalice.
-Degresarea cu solventi organici prin stergere sau cu emulsii.
-Dupa degresare se spala cu jet de apa pentru indepartarea urmelor de detergent. Solutia pentru degresare va fi aleasa astfel incat sa nu afecteze mediul.
Curatirea suprafetelor se va face conform gradului SA 1 1/2.

NOTE
1.The prvisions STAS 9407-75 will be stricthy observed when the welded metallic girders are manufactered in the factory.
2.In the factory, will be applied only the protection against corrosion for low flanges of metallic girders.
3.The metallic girders will be protected against corrosion on the surface exposed to the environment, plus 5cm depth of the concrete embedded surface.
The protection against corrosion will consist in a primary layer made of a zinc membrane (80μm thickness) and two polyurethane covering layer, each of 85μm 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.
4.Preparing the metallic surfaces in order to apply the dorrosion-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.

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Indice Index	Data Date	Modificare Modification/Revision	Proiectant Designer	Aprobat Consultant Approved Consultant	Aprobat CFR Approved CFR
D					
C					
B					
A	11.2011	Revizia 1 / 1 Revision	Dinu Andreea		

\pxqc;GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT
\pxqc;PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ
EUROPEAN UNION FINANCED PROJECT

\pxqc;CLIENT / CLIENT
\pxqc;C.N.C.F. "C.F.R." - S.A.

Joint Venture leader
OBERMEYER PLANEN + BERATEN GmbH
TECNIC Consulting Engineers

\pxqc;CONSULTANT / CONSULTANT

			Data Date	Semnătură Signature
Aprobat Approved	Șef proiect Project manager	\pxqc;R. Liuzza		—
Aprobat Approved	Coordonator Secțiune 1 Section 1 Coordinator	\pxqc;C. Gambelli		—
Verificat Checked	Expert Cheie Checking Expert	V. Kallidromitis		

SUBCONTRACTANT / SUBCONTRACTOR

Aprobat Approved	\pxqc;Responsabil Subconsultant Subconsultant Responsible	\pxql;A. Dinulescu Stanciu	07.2011	—
Întocmit Elaborated	Proiectant Designer	Dinu Andreea	07.2011	

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

Proiect/Project 2004/RO/16/P/PA/003
Faza / Phase: D.E. / E.D.

Denumire desen / Drawing Title :

INTERVAL / SECTION FELDIOARA - APATA
Pod Feldioara Km194+410.93 - D=15.00m - GRINZI METALICE
Feldioara Bridge Km 194+410.930– METALLIC GIRDERS

Codificare / Codification System — Scara / Scale 1:20;1:10;1:100 — LOT / LOT — Nr. / No 01 / 01

EA51 01 E 08 BC PV 00 9 3 007 1