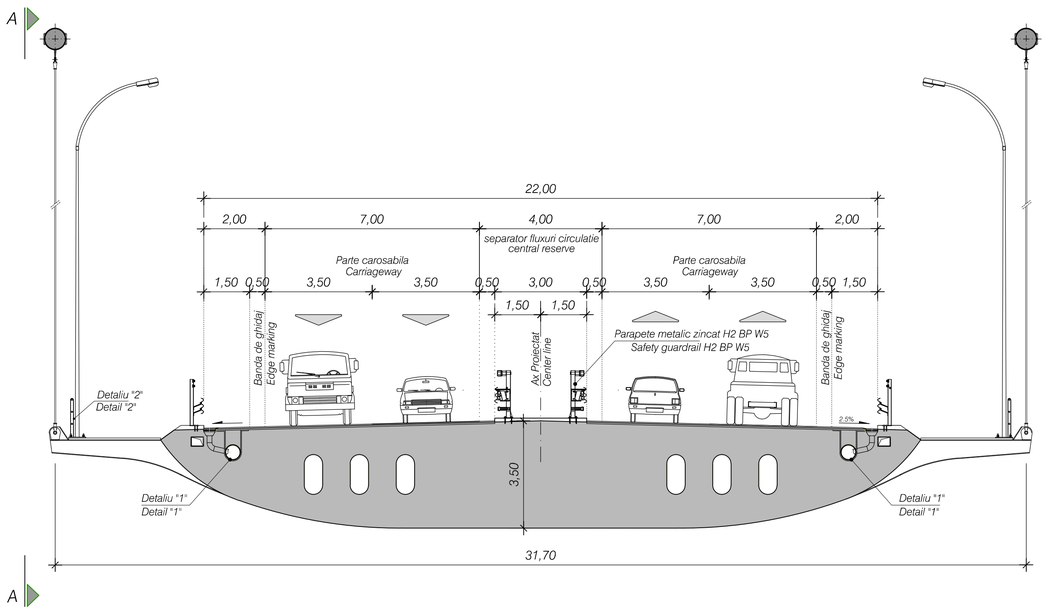
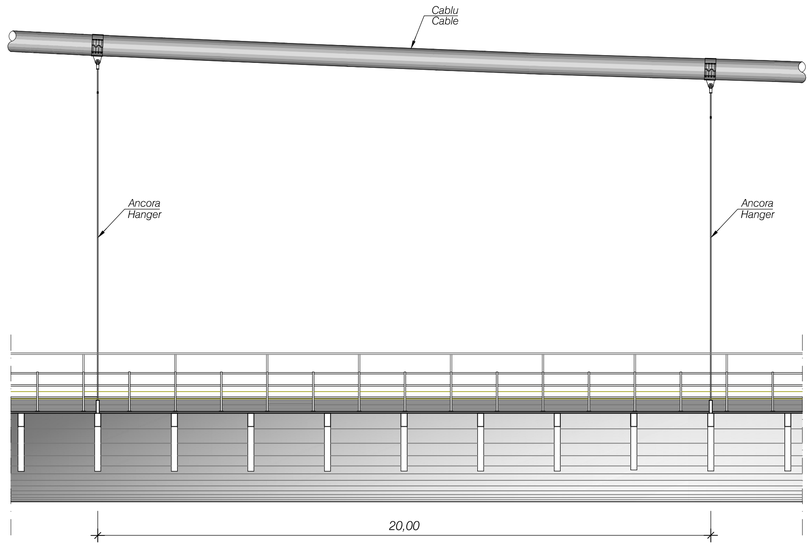
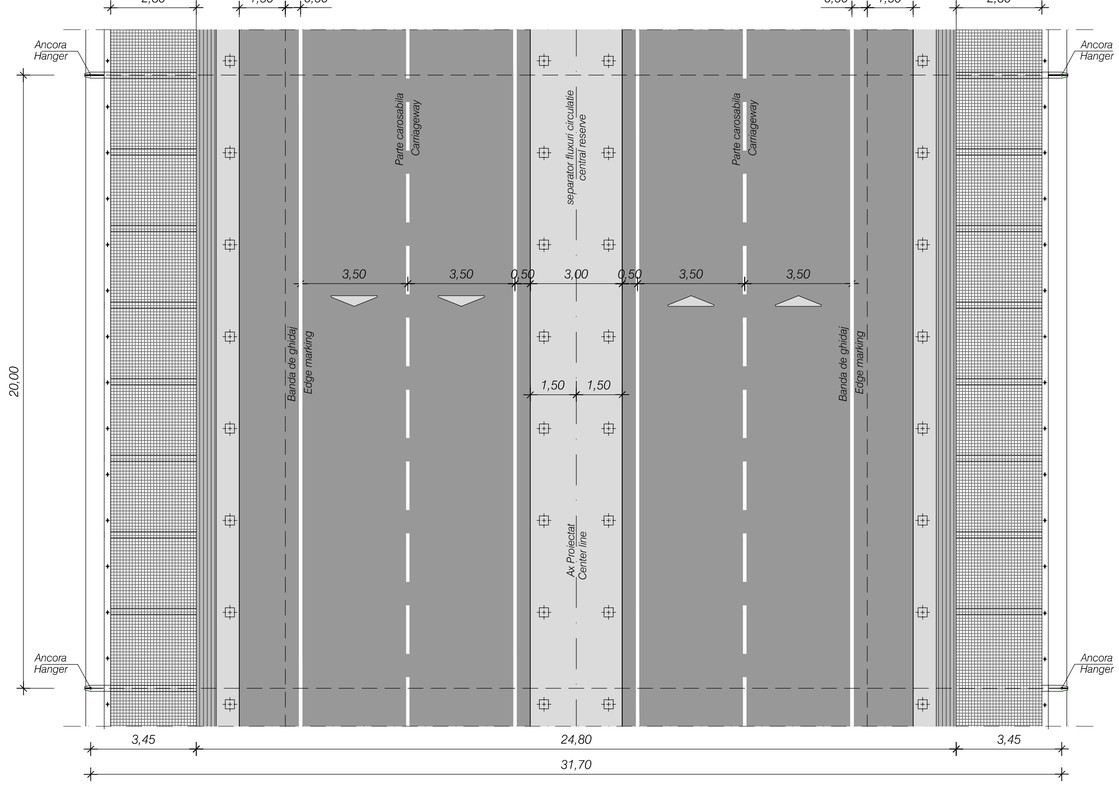
PROFIL TRASVERSAL AL PODULUI SUSPENDAT
TIPICAL CROSS SECTION SUSPENDED DECK
Scara/Scale 1:100



VEDERE AA
VIEW AA
Scara/Scale 1:100



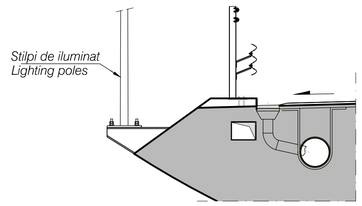
PLAN
PLAN
Scara/Scale 1:100



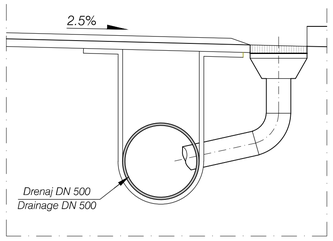
CLASA DE INCARCARE: CONVOAIE DE CALCUL CONFORM SR EN 1991-2
CATEGORIA DE IMPORTANTA: "B"
EXIGENTA DE VERIFICARE: A4.B2.D
ZONA SEISMICA: b_g, CONFORM SR 11100/1-93
a_g=0.30g, Tc=1.0s, CONFORM P100-1/2013

LOAD CLASS: TRAFFIC LOAD IN ACCORDANCE TO SR EN 1991-2
IMPORTANCE CATEGORY: "B"
NECESSITY OF VERIFICATION: A4.B2.D
SEISMIC ZONE: b_g, IN ACCORDANCE TO SR 11100/1-93
a_g=0.30g, Tc=1.0s, IN ACCORDANCE TO P100-1/2013

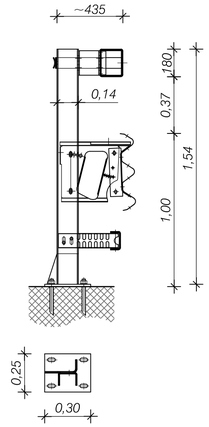
STALP DE ILUMINAT ATASAT PE CONSOLA PE VIADUCT
LIGHTING POLE ATTACHMENT ON APPROACH VIADUCT
Scara/Scale 1:50



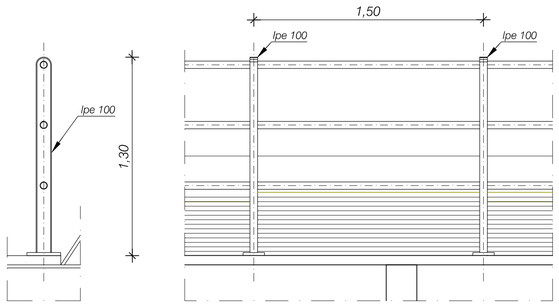
DETALIU "1"
DETAIL "1"
Scara/Scale 1:20



PARAPETE H2 BP W5
GUARD RAIL H2 BP W5
Scara/Scale 1:20



DETALIU "2"
DETAIL "2"
Scara/Scale 1:20



BETON STUCTURAL

TIP DE BETON	TURN 1 ELEVATIE	TURN 2 FUNDATIE	BLOC DE ANCORARE 4 PARTI PRINCIPALE	BLOC DE ANCORARE 5 ZONE DE ANCORARE/ SUPORT DE SA
CLASA DE BETON	C70/85	C40/50	C30/37	C35/45
TIMPUL DE ATINGERE A MARCII	60 DAYS	60 DAYS	60 DAYS	60 DAYS
CLASA DE EXPUNERE	XC4+XS3	XC4+XS3	XC4+XS1	XC4+XS1
CLASA DE CONSISTENTA	S4/S5	S4/S5	S4/S5	S4/S5
DIMENSIUNE MAXIMA AGREGATE	38mm	38mm	50mm	32mm

TIPUL DE OTEL SI STRUCTURA TOROANELOR:

TOROANE PRINCIPALE: f_u = 1770 MPa
PRINDERI TABLIER: f_u = 1770 MPa
SEI TURN : OTEL STRUCTURAL : S460ML– OTELUL TREBUIE SA GARANTEZE O PERFORMANTA LA EFORT DE 460 MPa PENTRU TOATE PLACILE DE PINA LA 100 MM.
SPLAY SADDLES: OTEL STRUCTURAL : S420ML– OTELUL TREBUIE SA GARANTEZE O PERFORMANTA LA EFORT DE 420 MPa PENTRU TOATE PLACILE DE PINA LA 100 MM.

OTEL STRUCTURAL : PLACI: TABLIER SUSPENDAT : S355ML

NORMATIVE DE REFERINTA PENTRU PROIECTARE:

EN 1990: (Eurocode 0) Bazele proiectarii structurale
EN 1991: (Eurocode 1) Actiuni pe structuri
EN 1992: (Eurocode 2) Proiectarea structurilor din beton
EN 1993: (Eurocode 3) Proiectarea structurilor din otel
EN 1994: (Eurocode 4) Proiectarea structurilor compozite otel–beton
EN 1997: (Eurocode 7) Proiectarea geotehnica
ROMANIAN ANNEXES:
Cod de proiectare. Bazele proiectarii si actiuni asupra constructiilor. Actiunea vântului.
Cod de proiectare seismica. Partea I – Prevederi de proiectare pentru cladiri.
(revizuire p100–1/2006. Recomandari de proiectare – cod de proiectare).

NORMATIVE DE REFERINTA PENTRU MATERIALE

BETON STRUCTURAL: EN 206–1:2001
OTEL BETON PENTRU ARMARE: EN 10080:2005
OTEL STRUCTURAL : EN 10025 – 4
OTELUL TOROANELOR SI STRUCTURA ACESTORA:
TOROANE PRINCIPALE: CLASA DE GALVANIZARE A FIRELOR (UNI EN 10264), GALVANIZARE CU MIN 300g/m² (UNI EN 10244).
WRAPPING WIRE: SOFT ANNEALED GALVANISED WRAPPING WIRE (BS 1052), GALVANISED TO MIN 300g/m² (UNI EN 10244).
PRINDERI TABLIER: CLASA DE GALVANIZARE A TECII (UNI EN 10264), GALVANIZARE CU MIN 300 g/m² (UNI EN 10244).
BLOCATOARELE CABLURILOR : CAST STEEL GRADE G24Mn6+QT2 (1.1118) (UNI EN 10340).
SEILE TURNURILOR: OTEL STRUCTURAL: EN 10025–4; OTEL: TIP G24Mn6+QT2 (1.1118) (UNI EN 10340).
SPLAY SADDLES: OTEL STRUCTURAL: EN 10025–4; OTEL: TIP G24Mn6+QT2 (1.1118) (UNI EN 10340).

STRUCTURAL CONCRETE:

CONCRETE TYPE	TOWER 1 ELEVATION	TOWER 2 FOUNDATION	ANCHOR BLOCKS 4 MAIN PARTS	ANCHOR BLOCKS 5 ANCHOR ZONE/ SADDLE SUPPORT
CONCRETE GRADE	C70/85	C40/50	C30/37	C35/45
TIME TO DEVELOP STRENGTH	60 DAYS	60 DAYS	60 DAYS	60 DAYS
ENVIRONMENTAL CLASS	XC4+XS3	XC4+XS3	XC4+XS1	XC4+XS1
CONSISTENCY CLASS	S4/S5	S4/S5	S4/S5	S4/S5
MAX. AGGREGATE SIZE	38mm	38mm	50mm	32mm

CABLE STEEL AND CABLE STRUCTURES:

MAIN CABLES: f_u = 1770 MPa
HANGERS: f_u = 1770 MPa
TOWER SADDLES: STRUCTURAL STEEL: S460ML– STEEL MUST PROVIDE A GUARANTEED YIELD STRENGTH OF 460 MPa FOR ALL PLATE THICKNESSES UP TO 100 MM.
SPLAY SADDLES: STRUCTURAL STEEL: S420ML– STEEL MUST PROVIDE A GUARANTEED YIELD STRENGTH OF 420 MPa FOR ALL PLATE THICKNESSES UP TO 100 MM.

STRUCTURAL STEEL: PLATES: SUSPENDED DECK: S355ML

DESIGN NORMATIVE REFERENCE

EN 1990: (Eurocode 0) Basis of structural design
EN 1991: (Eurocode 1) Actions on structures
EN 1992: (Eurocode 2) Design of concrete structures
EN 1993: (Eurocode 3) Design of steel structures
EN 1994: (Eurocode 4) Design of composite steel and concrete structures
EN 1997: (Eurocode 7) Geotechnical design
ROMANIAN ANNEXES:
– Design Code. Design basics and actions acting on constructions. Action of Wind.
– Seismic design code. Part I – Prescriptions for building design.
(revision p100–1/2006. Design recommendations – design code)

MATERIALS NORMATIVE REFERENCE

STRUCTURAL CONCRETE: EN 206–1:2001
REINFORCEMENT STEEL BARS: EN 10080:2005
STRUCTURAL STEEL: EN 10025 – 4
CABLE STEEL AND CABLE STRUCTURES:
MAIN CABLES: CLASS A GALVANISED WIRE (UNI EN 10264), GALVANISED TO MIN 300 g/m² (UNI EN 10244).
WRAPPING WIRE: SOFT ANNEALED GALVANISED WRAPPING WIRE (BS 1052), GALVANISED TO MIN 300g/m² (UNI EN 10244).
HANGERS: CLASS A GALVANISED WIRE (UNI EN 10264), GALVANISED TO MIN 300 g/m² (UNI EN 10244).
CABLE CLAMPS: CAST STEEL GRADE G24Mn6+QT2 (1.1118) (UNI EN 10340).
TOWER SADDLES: STRUCTURAL STEEL: EN 10025–4; CAST STEEL: GRADE G24Mn6+QT2 (1.1118) (UNI EN 10340).
SPLAY SADDLES: STRUCTURAL STEEL: EN 10025–4; CAST STEEL: GRADE G24Mn6+QT2 (1.1118) (UNI EN 10340).

Index	Data	Modificare / Modification/Revision	Proiectat / Designed	Verificat / Checked	Aprobat / Approved
04					
03					
02	26.05.2016	Modificare cartus conform adresa CNADNR nr. 92/30250 din 23.05.2016" / Title block change according to CNADNR's letter no.92/30250 from 23.05.2016".	Monica Cencini	Marcello Colasanti	Fabio Brancaleoni
01	06.11.2015	In urma auditului intern / following internal audit	Monica Cencini	Marcello Colasanti	Fabio Brancaleoni

GUVERNUL ROMÂNIEI

BENEFICIAR/EMPLOYER

COMPANIA NATIONALA DE AUTOSTRAZI SI DRUMURI NATIONALE DIN ROMANIA
NATIONAL COMPANY OF MOTORWAYS AND NATIONAL ROADS IN ROMANIA

PROIECTANT / DESIGNER

ASOCIEREA

I.S.P.C.F. *S.A.* *BUCURESTI*
E.D.IN. *S.R.L.* *Roma*
S.T.E *S.R.L.* *Roma*
PEGASO INGEGNERIA *Milano*

Proiectat / Designed	Monica Cencini	09.09.2015	
Verificat / Verified	Marcello Colasanti	09.09.2015	
Expert poduri / Road Expert	Fabio Brancaleoni	09.09.2015	
Coordonator proiect adjunct / Deputy Project manager	Dan Maiorean	09.09.2015	
Coordonator proiect / Project manager	Eugenio Moroni	09.09.2015	

TITLU PROIECT/PROJECT TITLU:

REACTUALIZARE STUDIU DE FEZABILITATEA PENTRU
"POD SUSPENDAT PESTE DUNĂRE IN ZONA BRĂILA"
UPDATE OF FEASIBILITY STUDY FOR
"SUSPENDED BRIDGE OVER THE DANUBE IN BRAILA AREA"

Denumire desen / Drawing Title :

TABLIER SUSPENDAT - SECTIUNE TRANSVERSALA, ELEVATIE SI PLAN
Suspended deck - Cross section, elevation and plan

Codificare / Codification System: P S B | S F | P P V | D S C | 0 0 8 | R 0 2

Scara / Scale: Varies