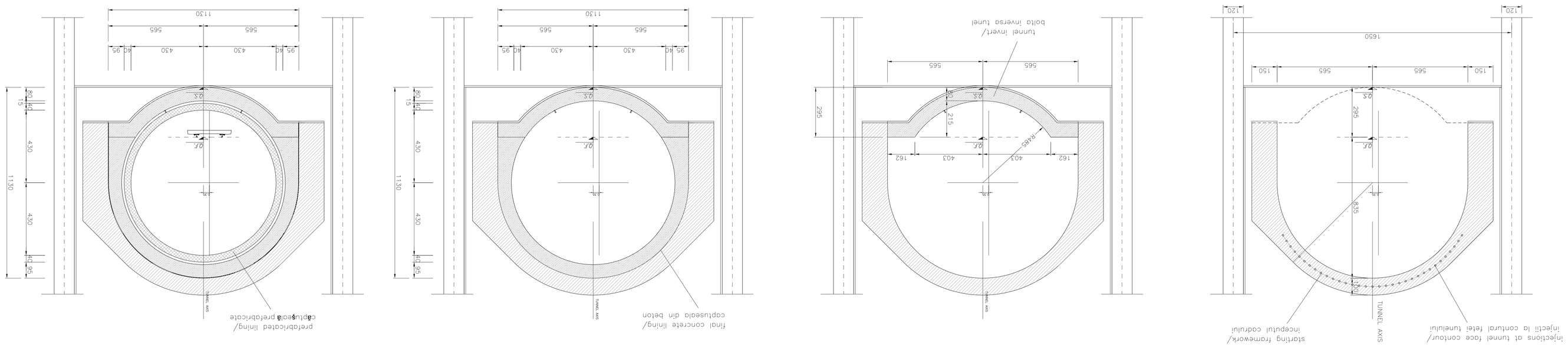
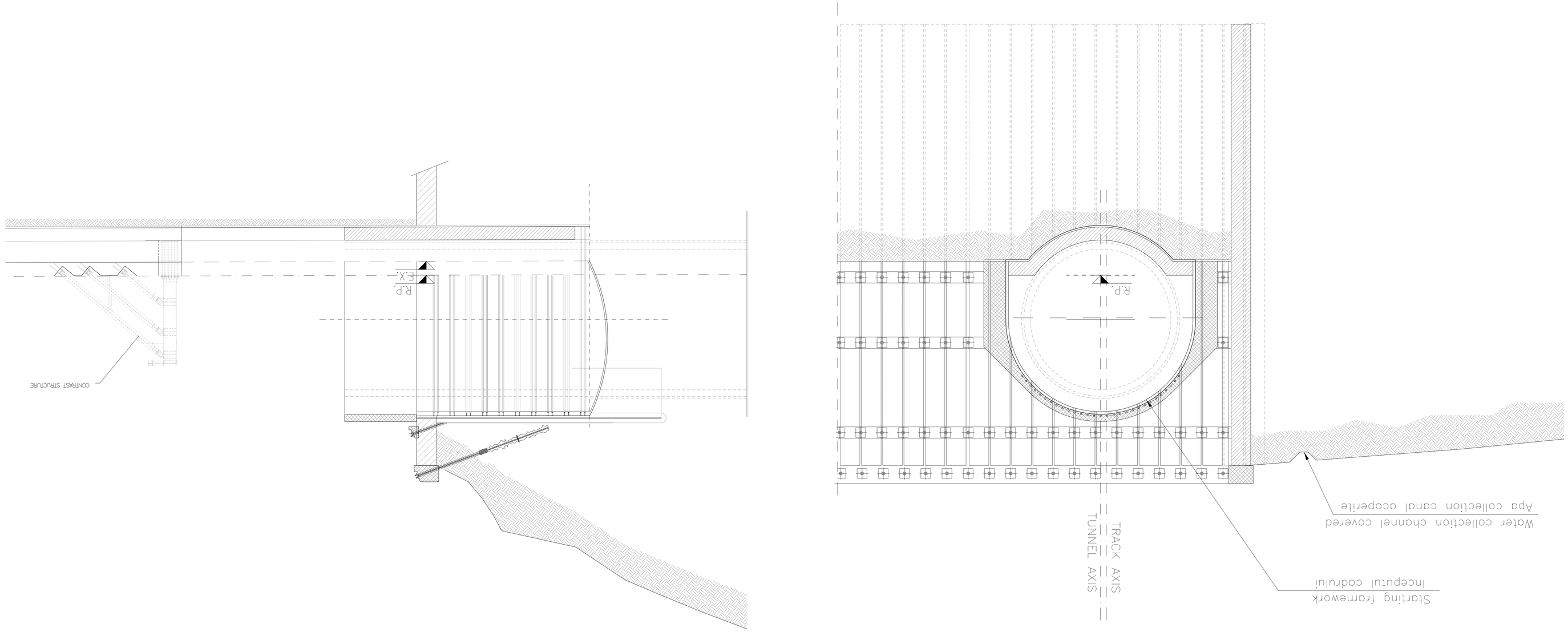




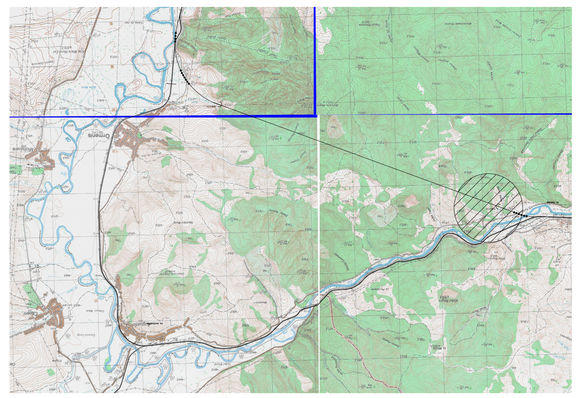
MATERIAL TABLE

TUNNEL INVERT CONCRETE:
- Type C2
- fck >=30 MPa
- Water/cement ratio <0.50
- Minimum structural Class S3/S4
- Cement type CEM III/V
- Class of chloride content Cl 0.20
- ø max aggregate = 32 mm

TUNNEL CROWN CONCRETE:
- Type C1
- fck >=30 MPa
- Water/cement ratio <0.50
- Minimum structural Class S4/S5
- Cement type CEM III/V
- Exposure class related to environmental conditions: XA2
- Class of chloride content Cl 0.20
- ø max aggregate = 32 mm

REINFORCING STEEL:
- B450C controled by establishment
- Weldable

LEAN CONCRETE:
- Type I
- fck >=12 MPa
- Cement type CEM I/V



GENERAL PLAN / PLANUL GENERAL

ELABORATE REFERENCE
REFERINTA ELABORATE

EA51-01-C-10-BB-CA-02-0-0-001-0
EA51-01-C-10-BB-CA-02-0-0-002-0
EA51-01-C-10-BB-CA-02-0-0-003-0
EA51-01-C-10-BB-CA-02-0-0-004-0
EA51-01-C-10-BB-CA-02-0-0-009-0

Index Index	Data Date	Modificare Modificarea/Revision	Proiectant Designer	Aprobat Consultant Approved Consultant	Aprobat CFR Approved CFR
D					
C					
B					
A					

GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANTAT DE UNIUNEA EUROPEANA
EUROPEAN UNION FINANCED PROJECT

CLIENT / CLIENT

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

CONSULTANT / CONSULTANT

Aprobat Approved	Şef proiect Project manager	R. Lăzăa	
Aprobat Approved	Coordonator Secțiune 1 Section 1 Coordinator	G.Gamble	
Aprobat Approved	Verificat Tunnel Expert	C. Gamble	
Întocmit Elaborated	Proiectant Designer	C.Gamble	

Data Date | Semnătura Signature

SUBCONSULTANT / SUBCONSULTANT

Aprobat Approved	Responsabil Subconsultant Responsible		
Întocmit Elaborated	Proiectant Designer		

Reabilitarea liniei de cale ferată Brașov - Simeria, parte componentă a coridorului IV Pan European, pentru circulația trenurilor cu viteza maximă de 160 km/h.
Secțiunea 1 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 1 Brașov - Sighișoara

Proiect/Project
2004/RO/16/P/PA/003

Faza / Phase: F.Th. / T.D.

Denumire desen / Drawing Title : **ORMENIS TUNNEL**
ENTRANCE EACOSS SIDE
Construction work - Plan 2 of 2
Lucrări de construcții - Desenul 2 din 2

Cod/Cane / Codification System: E A 5 1 0 1 C 1 0 P 8 G A 0 2 0 0 0 0 3 0

Scara / Scale: **variat / various**

LOT: -

Nr. / No.: -