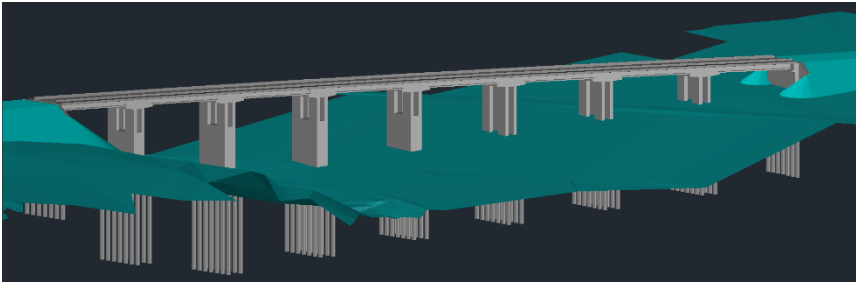


Modernization of the railway line Sofia – Plovdiv; Section Elin Pelin – Ihtiman



The Sofia-Plovdiv railway line is an important element of the Core Network of Trans-European Transport Network corridors, defined according to the European Union Guidelines for the Development of European Transport Policy up to 2030/2050.

The Sofia-Plovdiv railway line has an important regional economic and strategic importance for the country as a line linking some of the biggest industrial centers - Sofia, Plovdiv, Bourgas, Stara Zagora and the whole of Southeastern Bulgaria.

EKJ Bulgaria Ltd is a subcontractor of one of the participants in ELIH Ltd. - TransGeo Ltd. and our services include the development of a technical project for two railway crossings as part of the modernization of the railway line in Elin Pelin - Ihtiman section.

The project, prepared by EKJ Bulgaria Ltd., represents two

railway bridges for two tracks - one with 8 spans and the second one with 14. The total length of one bridge is 234 meters and the other 414 meters respectively.

The structural solution for both bridges is made by a static frame reinforced concrete frame construction with precast concrete beams with a length of 22 m, joined by cast in situ reinforced concrete plate. The mainstays are part of the frame construction and are protected by a retaining wall on the same foundation. The foundation is provided by cast "hanging" piles with $\varnothing 1,2$ m and length of 20 m. There is also a noise barrier along the length of one of the sidewalks on the side of one track with a height of 2m.

EKJ Bulgaria's services:

During tender procedures:

All activities related to the design of preparation of the tender in Action: "Facilities – bridges, overpasses, underpasses, culverts, retaining walls, etc."

During design:

EKJ Bulgaria is a subcontractor in the preparation of project development of the phase "Technical design" of:

- Bridge 30 + 217 km
- Bridge 30 + 724 km

Objectives and features:

- Improve the safety of the railway track
- Increasing the speed of the railway section
- Increasing capacity
- New electrification
- Noise protection
- Reduce environment pollution
- Short design deadlines

Client: National Railway Infrastructure Company

Contractor: ELIH Ltd

Consultant: „NET-ИИКуI-UIG“

Period: 2015-2016

Contract type: Design

