Transportation Infrastructure
Peripheral Highway Design between Alanya-Gazipasa

OPTIM
OBERMEYER PROJE

Client	Antalya Metropolitan Municipality
Work Period	08.06.2016 - ongoing
Services provided	Geodesy services Highway design Design of engineering structures Tunnel design Feasibility and research studies Traffic design Project info file Preparation of final report

Technical Details

16 km long route between Alanya-Gazipasa consists of 3 double tube tunnels (Tunnel-1 L=3600 m, Tunnel-2 L=1890 m, Tunnel-3 L=1790 m), 3 viaducts (Demirtaş Viaduct L=711,50 m, Hocalar Viaduct L=234 m, Pamukluk Viaduct L=447 m), 3 bridges (K1 Interchange Bridge L=165 m, K2 Interchange Bridge L=65 m, Güzdere Asarkoyagı Bridge L=179 m), 2 overpasses (L=40, L=60), 5 Interchanges (grade-seperated), 1 Interchange (at grade junction), 3 underpass (10.00x5.50).

🖉 Highway design: Design of geometrical components and preparation of the report, Hydraulic and hydra-geological surveys, Cross-section drawings, determination of retaining walls, cut-fill and bruckner calculations, Determination of intersections and connection ways, drawings of plan-profile and details, Drainage design and related drawings, Preparation of final report and quantity survey, Submittal of Final Design for the approval of the Client

🖉 Engineering Structures: Preparation of preliminary and final design for bridges, flying-overs, underpasses, culverts, etc.

🖉 Tunnel Design: Preliminary design, Geometric design of the highway tunnel, Final design

🖉 Feasibility and research studies: Geological survey and report, Hydra-geological survey and report, Engineering geology survey and report, Geological-geotechnical research programme and applications, Geological-geotechnical survey and design report, Geotechnical design report, Superstructures survey and design report

🖉 Traffic design: Traffic design report and quantity survey, submittal to the Client

🖉 Project info file: Decision for the necessity of Environmental Impact Assessment

🖉 Final Report: Preparation of final report and submittal to the Client