

Transportation Infrastructure

Highway Design between Demirci Junction - (Uşak-Kütahya) Junction



Client General Directorate of Highways

Work Period 01.04.2013 - 30.05.2016

Services provided
Geodesy services
Highway design
Design of engineering structures
Feasibility and research studies
Traffic design
Preparation of final report

Technical Details 60 km long route between Demirci Junction and (Uşak-Kütahya) Junction consists of 7 bridges (1862 sqm) design. The project covers the following design disciplines:

✍ Geodesy works: Determination of check-points and approval of the Client, Assign of check-points and related measurements, calculations. Calculations for coordinate transformation and submittal of supervision reports to the Client, Land survey and to form digital geodesic model.

✍ 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.

✍ 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

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

