

Client	General Directorate of Highways
Work Period	17.08.2017 - 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	<p>22 km long route consists of 5 interchanges, 5 tunnels (10623m) and 3 bridges. The project covers the following design disciplines:</p> <ul style="list-style-type: none">∅ 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.∅ 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

