

Contractor: "GEOLands" EOOD, Haskovo

Assignor: Municipality of Madzharovo

INVESTMENT PROJECT

construction: „Reconstruction of road HKV 2101 from km 0+814.75 to
km 0+914.75"

in the land of town of Madzharovo, Municipality of Madzharovo

PART: GEODESY-TRACING PLAN

STAGE: DETAILED DESIGN



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ВЯРНО СОРИГИНАЛА

EXPLANATORY NOTE

Subject of the present Explanatory Note is a description of the exploration and design works and other technical activities carried out in order a geodetic picture and a tracing plan to be made for the site "Reconstruction of road HKV 2101 from km 0 + 814.75 to km 0 + 914.75" in the land of town of Madzharovo, municipality of Madzharovo.

Municipality of Madzharovo is the Assignor of the exploration and design works and "GEOLands" EOOD - Haskovo is the Contractor.

1. Description of the site

The area, subject to exploration and design works, covers the following territory: a part of road HKV 2101 from km 0+814.75 to km 0+914.75 from the town of Madzharovo to the village of Strandzhevo.

2. Exploration works

Referring to the territory of the site, the following materials have been found and examined:

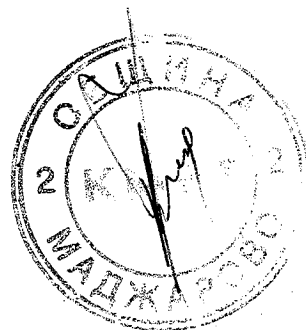
- The sketches, the registers of coordinates and the control points' location sketches of the field triangulation and GB network in the area.

- other textual and graphical information relevant to the geodetic works;

3. Geodetic picture

The geodetic picture was taken by direct geodetic measurements with the GPS Leica GS08 NetRover. The technical characteristics of the measuring instrument used are as follows:

- RTK floating accuracy mode
 - horizontal 5mm + 1ppm,
 - vertical 20mm + 1ppm
- Post-processing accuracy
 - horizontal 3mm + 0.5ppm,



ВЕРНО СОПРЕЖНАТА

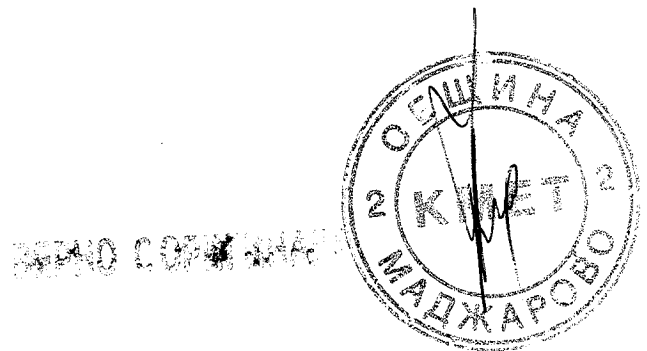
- vertical 6mm + 0.5ppm

The points in the axis and at the both ends of the road, determining the outlines of the existing road in the exploration area, are mapped as well as the elements of the drain planned for rebuilding.

For the post-tracing of the site, a geodetic traverse of the control points is placed, the points are set by metal nails driven in the asphalt. The coordinates and their attitudes are got by dynamic GPS measurements performed according to Instruction No. RD-02-20-25 of 20 September 2011 for the determination of geodetic points using global navigation satellite systems.

The traverse control points are also used for working bench marks for the site.

A tracking plan has been prepared showing the points on the newly designed road axis and on the newly designed drain. Referring to these points, a register containing their numbers and their coordinates is enclosed to the documentation.



Haskovo,
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