

Road engineering and infrastructure

Regulation of the roundabout and road connection on the national road R3-728/114 Škofljica – Ig

Project type

Traffic and municipal infrastructure

Location

Ig, Slovenia

Surface

15.000 m²

Investment value

2.300.000,00 €

Year(s)

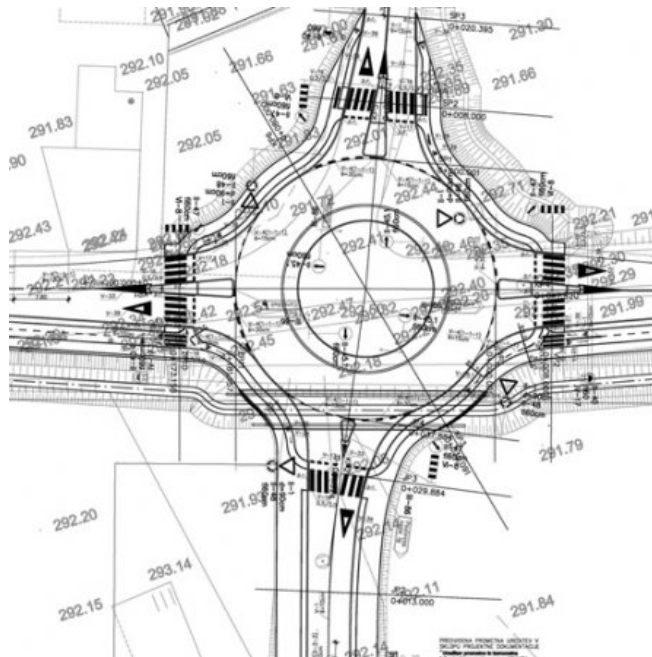
2007 - 2009

Services

preliminary design,
building permit design,
as built design.

Investor

Municipality of Ig



This project dealt with a reconstruction of the national road R3-728/1148 (Škofljica – Ig) from km 4+083.51 to km 4+459.64, including reconstruction of a local road heading towards settlement Kremenica in total length 320 m. The decided solution of the crossing of the national road and the local road was a roundabout. The outer diameter of the roundabout is 37 m. A reason for the reconstruction was a foreseen construction of a business center nearby, which will produce a large amount of pedestrian, cycling and heavy traffic. Therefore it was essentially to plan new sidewalks and cycle tracks. During planning it was discovered, that the basic ground did not offer enough resistance due to increase of a traffic load (measurements of CBR value was only 2 %). Therefore it was essential to improve characteristics of basic ground. The solution was an installation of a mineral capping layer. Beside the inconvenient characteristics of a base floor, there was also difficult to solve the drainage of the road structure. Due to flatness of terrain the required gradient towards existing watercourse was hard to provide. On account of hydrological terms, it was necessarily to project three bridges, which were about 38 m wide and 4 m long. Due to foreseen construction of a business center nearby, a part of projecting also represented planning of infrastructure, like sewage, electrical installations, water supply and telecommunications.