Fundamentals of Road Construction

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Project 1

The subject of the project lecture:

General information about project

Thematic card of the course
Fundamentals of Road Construction
Design of section of the public road

The data for the design:

The map with contour line in the scale of 1: 5000 or digital elevation model

Road class: "L" (local)

Design speed: 50 km/h

Number of roadway: 1

Number of traffic lanes: 2

Traffic category: KR2

The load-bearing capacity group of the subgrade: G1

The project should include:

PDF file containing:

- technical description,

- example road surface construction.

- drawing of the horizontal alignment,

- drawing of the vertical alignment,

- drawing of the cross sections.

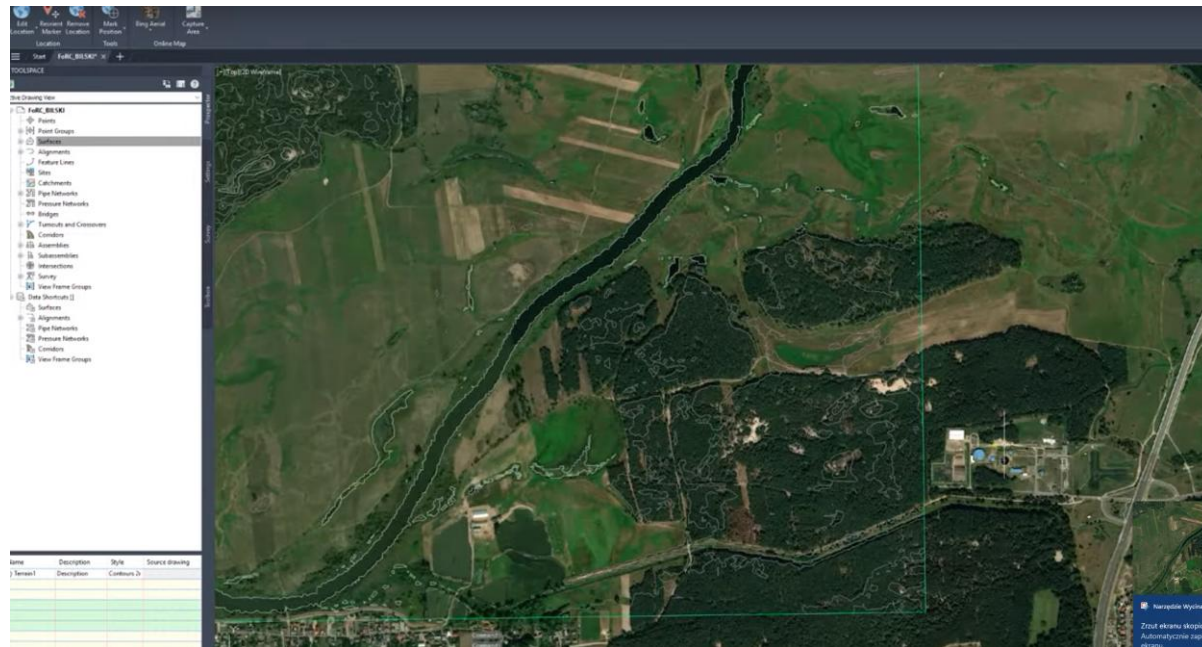Send the finished project to e-mail: marcin.bilski@put.poznan.pl

Issued date: 2025/03/05   The project completion date: 2025/06/18

The project was issued by: Marcin Bilski, BEng, PhD

What to do:

1. Choose a solution for the project: DEM or MAP

2. Select DEM or MAP variant

3. Create surfaces with digital elevation model in AutoCAD Civil 3D

4. Select the starting and ending points of projected road (the maximum distance between points should be no more than 1750 m)

How to do:

THANK YOU FOR YOUR ATTENTION