

# Fundamentals of Road Construction

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# Project 4

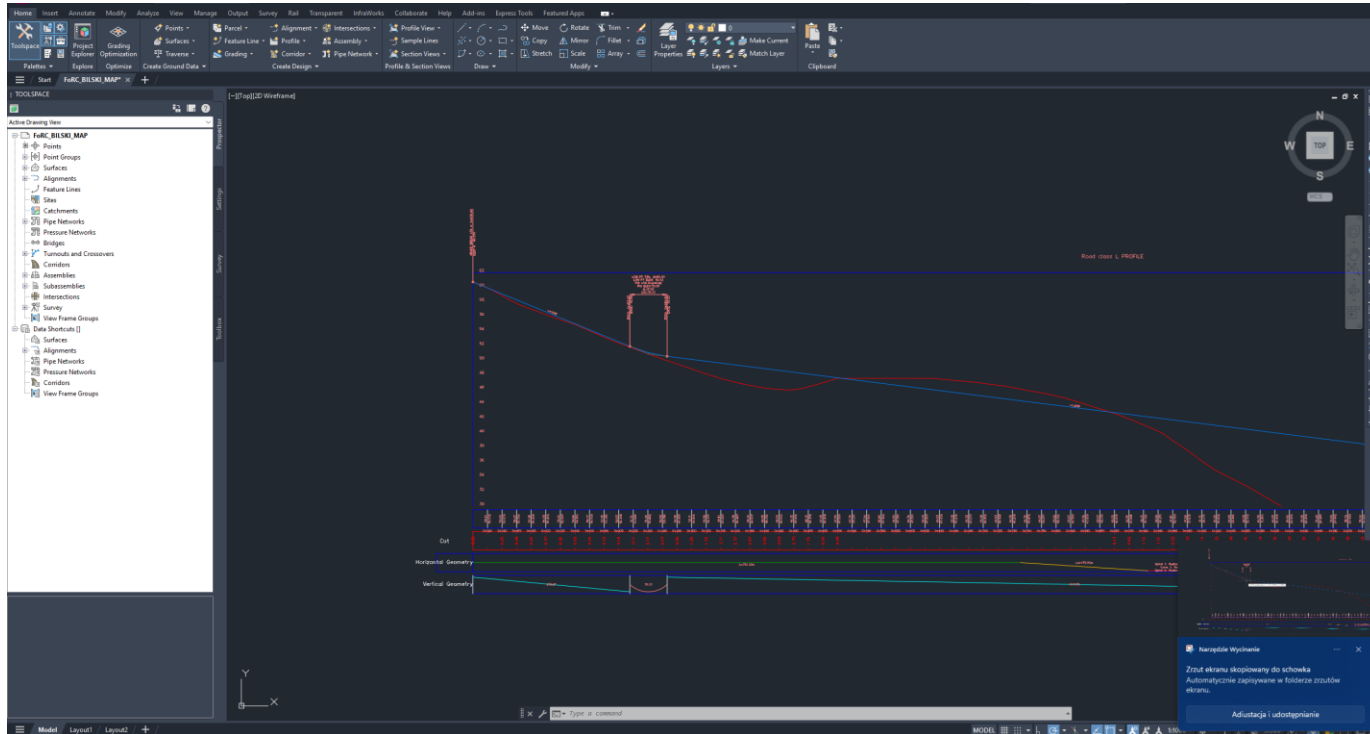
**The subject of the project lecture:**

**Vertical alignment**

## **What to do:**

- 1. Design the grade line for the road in AutCAD Civil 3D**
- 2. Using an Excel spreadsheet, calculate, adopt, and verify the parameters of the vertical curves**
- 3. Enter the designed curves in AutoCAD Civil 3D**

# How to do:



<https://www.youtube.com/watch?v=ZLJ-JlzkBQ>

# Contents of the descriptive part of the project

***Geometric elements of the vertical alignment*** (presented in the table):

- adopted the parameters of horizontal curves.

**THANK YOU FOR YOUR ATTENTION**