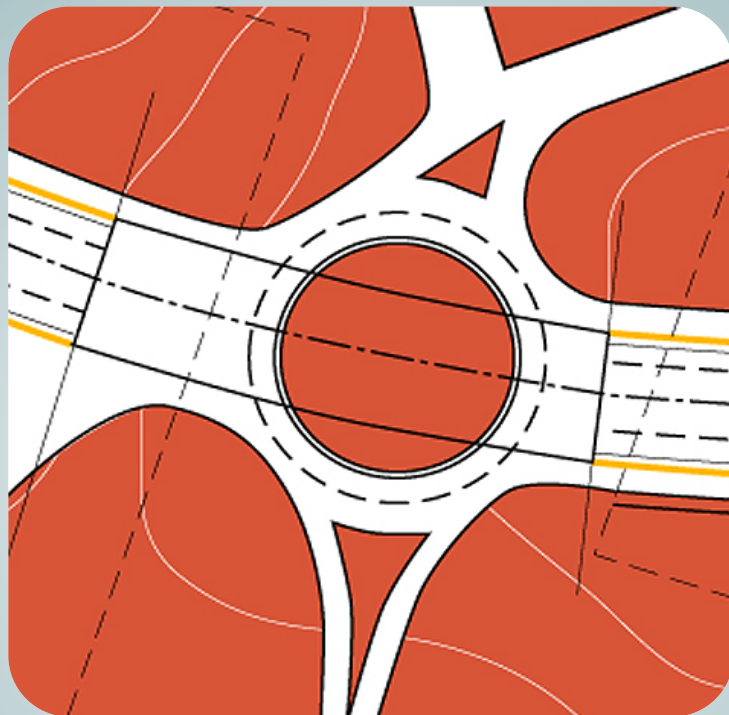


Workshop on Projects

Week 13. Activity Lecture Week 13 Script



César Otero González

Valentín Gómez Jáuregui

Cristina Manchado del Val

Department of Geographical Engineering and
Graphic Expression Techniques

This work is published under a License:

[Creative Commons BY-NC-SA 4.0](https://creativecommons.org/licenses/by-nc-sa/4.0/)

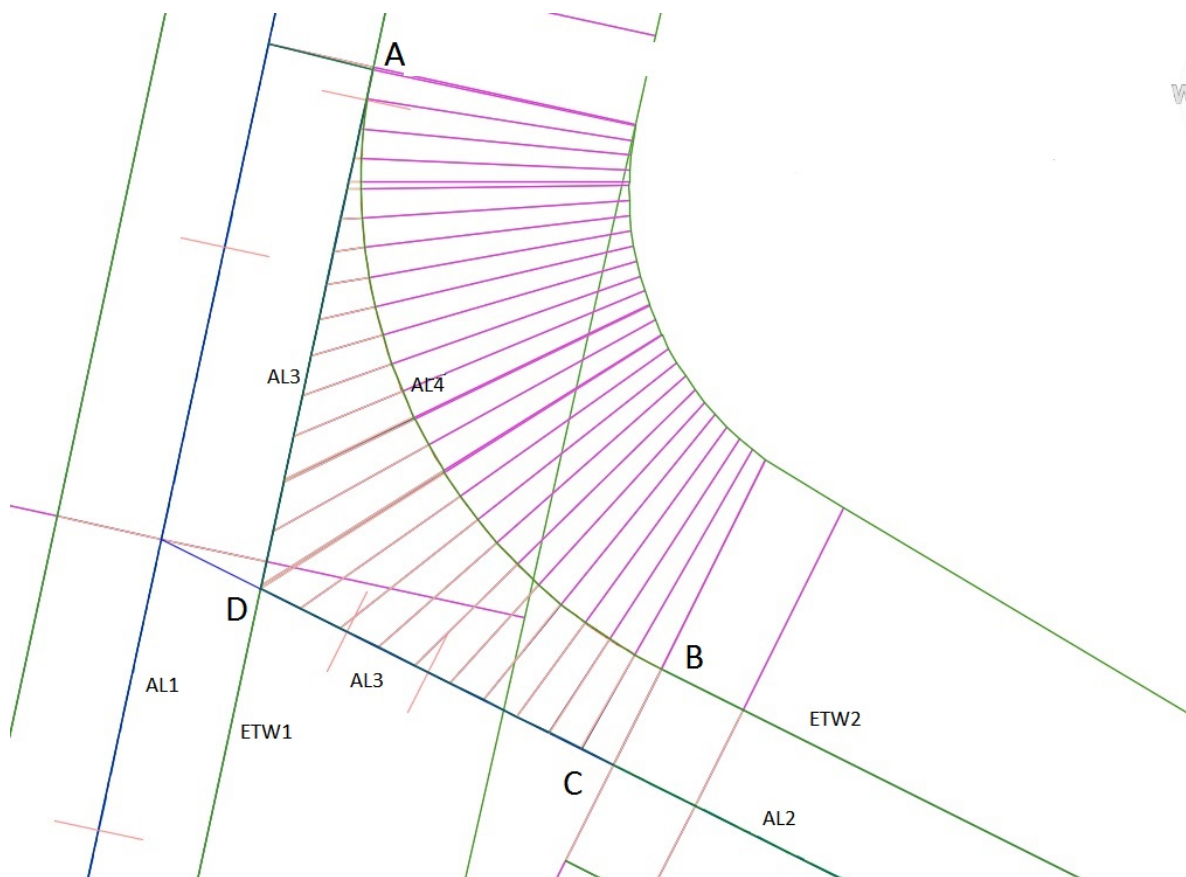
EXERCISE FRIDAY WEEK 13

1. SYNTHESIZING the tangency conditions for junctions design.

Elements: AL1, ETW1 ; AL2, ETW2 ; AL3 // AL4.

PLANT: AL3 \equiv AL2 in C-D ; AL3 \equiv ETW1 in D-A.

AL4 IS TANGENT TO ETW2 IN B ; ALSO TO ETW1 IN A.



Suggestion:

- Solve CORR1 and CORR2.
- Convert ETW1 and ETW2 into 3DPOLYLINES and then convert these latter into 2DPOLYLINES.
- Draw an arc tangent to both 2DPOLYLINES (you set its radius).
- Convert this doubly tangent arc into the alignment AL4.

PROFILE

- **AL3 IS TANGENT TO AL2 IN C.**
- **AL3 OVERLAPS ETW1 ALONG C-A.**
- **AL4 IS TANGENT TO ETW2 IN B.**
- **AL4 IS TANGENT TO ETW1 IN A.**

2. Adapt these conditions to the design of a branch at the provided roundabout.