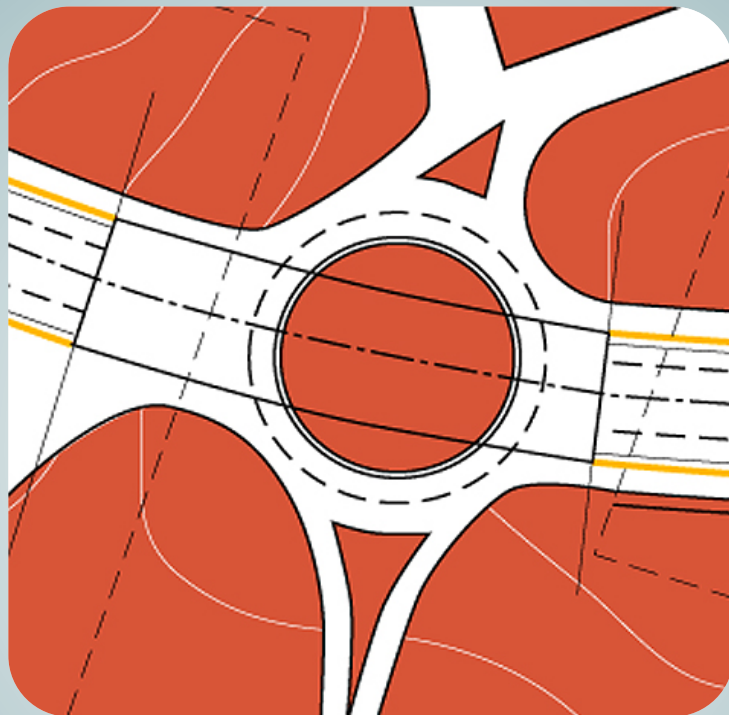


Workshop on Projects

Week 14. Activity Lecture Week 14 Script



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PRACTICAL CLASS FRIDAY WEEK 14

Assisted by the videos provided and by this script, you will be able to create different reports that will be necessary for your final project work.

VIDEO 1 shows how to make a report with the geometry of several alignments that can be selected from a form or picked directly on the drawing area. Whereas in the example of Video1 only an alignment has been selected, profiles or other elements can also be chosen.

VIDEOS 2 AND 3 present the procedure for making a stakeout¹ report. Video 2 shows how to define a series of stakeout bases; video 3 shows how to create the report.

VIDEOS 4 TO 7 show how to get a takeoff² report.

- **Videos 4 and 5** are necessary to establish the list of materials (the so-called takeoff criteria). This list is related to the assembly used in the corridor, such as sketched in figures 1, 2 and 3. Ask the lecturer for detailed information of this particular matter.
- **Video 6** shows the command that makes it possible to compute the volumes of different materials, once the takeoff criteria have been defined.
- **Video 7** simply starts the report, once the calculation step has been previously carried out: material list-1 is the result of the computation done in video 6.

¹ Stakeout: replanteo.

² Takeoff: cubicación.

☰ LaneOutsideSuper
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This subassembly creates a cross-sectional representation of a travel lane, applying the Outside Lane superelevation slope value for the corridor model's baseline alignment.

Note: This subassembly does not support superelevation axis of rotation pivot points other than Centers. This subassembly has been deprecated and is available only in the Corridor Modeling Catalogs. The LaneSuperelevationAOR subassembly has all the functionality of this subassembly, and it supports superelevation axis of rotation pivot points.

It is used for most undivided roads, or divided roads with no lane slope break on either side. It may also be used for the outside lanes of divided crowned or broken-back highways. The pavement structure follows the standards described in "Pavement Structure on Paved Sections" in the AutoCAD Civil 3D Help.

Crowned, undivided road (left and right insertions shown)

Fig. 1. Different layers of material in a particular subassembly (LaneOutsideSuper).

L1	Top, Pave	Finish grade surface
L2	Pave1	Pave1 surface
L3	Pave2	Pave2 surface
L4	Base	Base surface
L5	Subbase Datum	Subbase surface
S1	Pave1	Area between finish grade and Pave1
S2	Pave2	Area between Pave1 and Pave2
S3	Base	Area between Pave2 and Base
S4	Subbase	Area between Base and Subbase

Coding Diagram

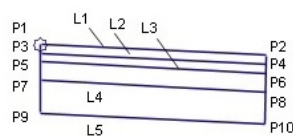


Fig. 2. Codes for lines and areas of this particular subassembly.

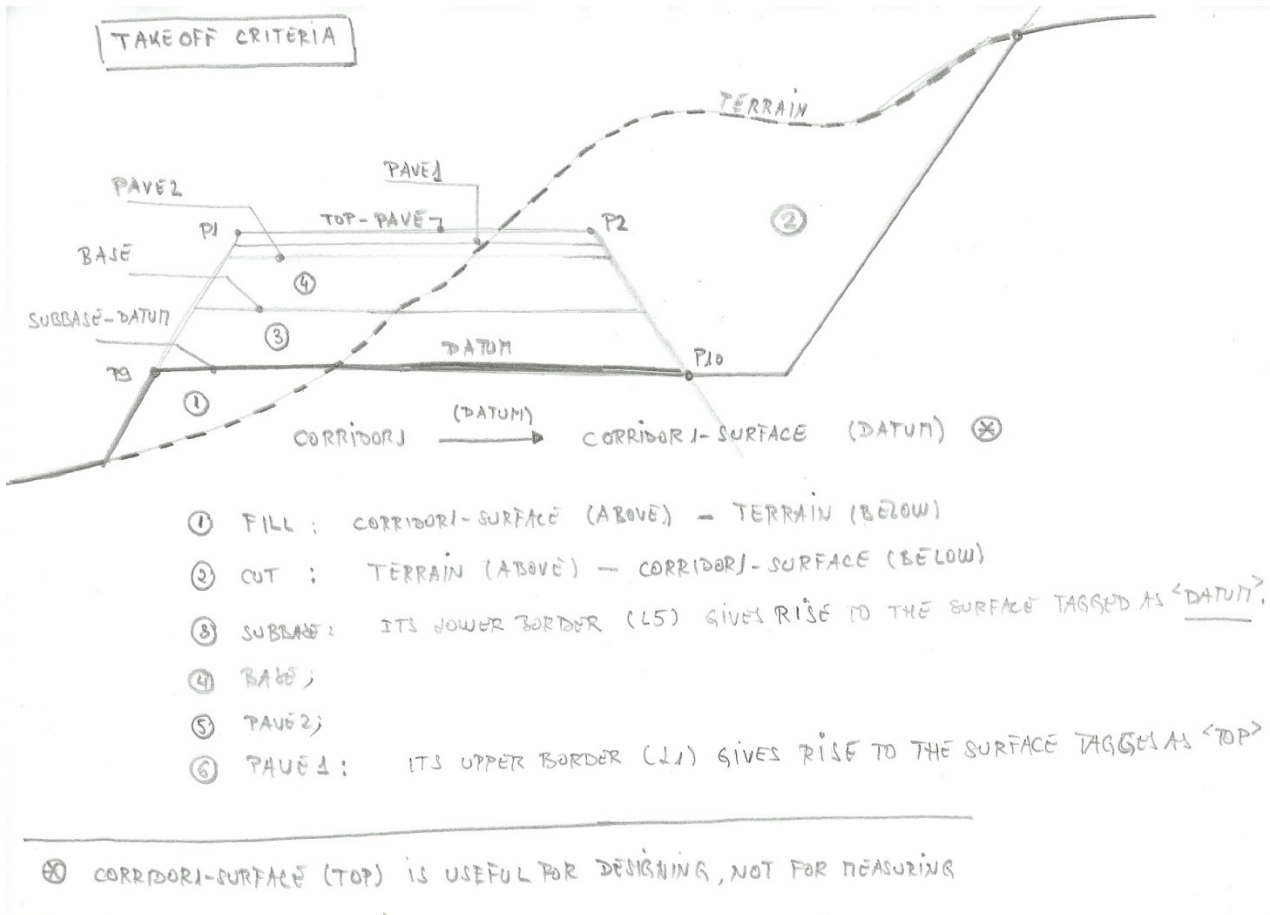


Fig. 3. List of materials (takeoff criteria).