

6_8 WEDGING FIRST COURSE COMPUTATION

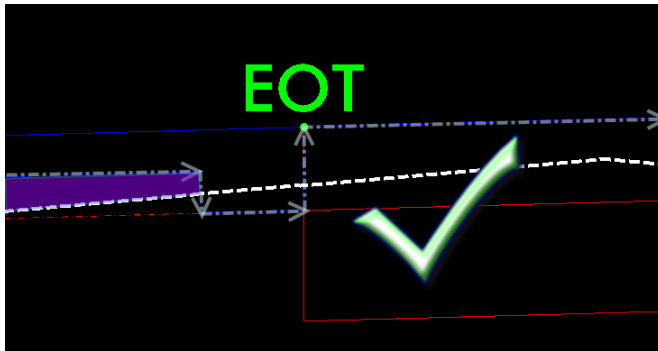
Question:

What are some of the issues when computing the first course wedging quantity from cross sectional based input?

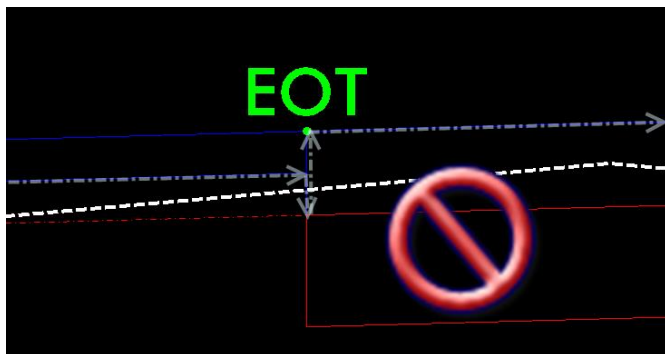
Answer:

The problem is a little bit complicated to explain, more than I want to get into. Briefly it is due to how the wedge surface line of the first wedging course was constructed. Below are two instances, where one works and the other fails. Wedge surface line shown in light gray with trace arrows.

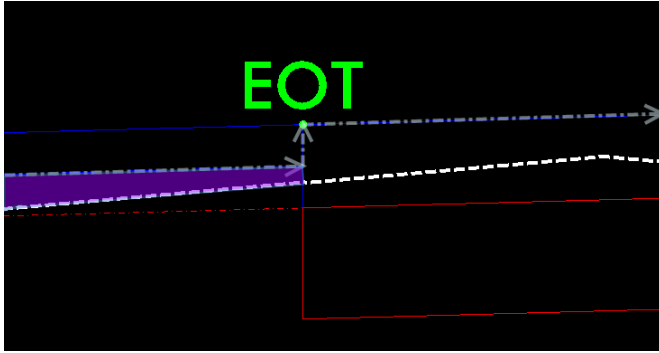
Works (Continuous Wedge Surface Lines without Overlap) – Wedge Shown in Purple Shape



Failed (Two Wedge Surface Lines Overlap at EOT)



The second scenario fails when wedging occurs up to and outside the EOT point. The workaround is to delete the two overlapping wedge surface lines and construct just one surface line to the EOT. Do this in the XSC.



As a reminder, this is one of the many limitations of cross sectional based quantities. I have developed a new VBA app to extract the pavement quantities, including wedging, directly from our civil model reports.

Once everyone has migrated to the new VBA app workflow, I will removed these wedge surface lines from the template library. These surface lines served only one purpose, cross sectional based quantities (have no bearing on the function of civil models). Pavement and wedging quantities from then on should be derived from the civil model reports.