

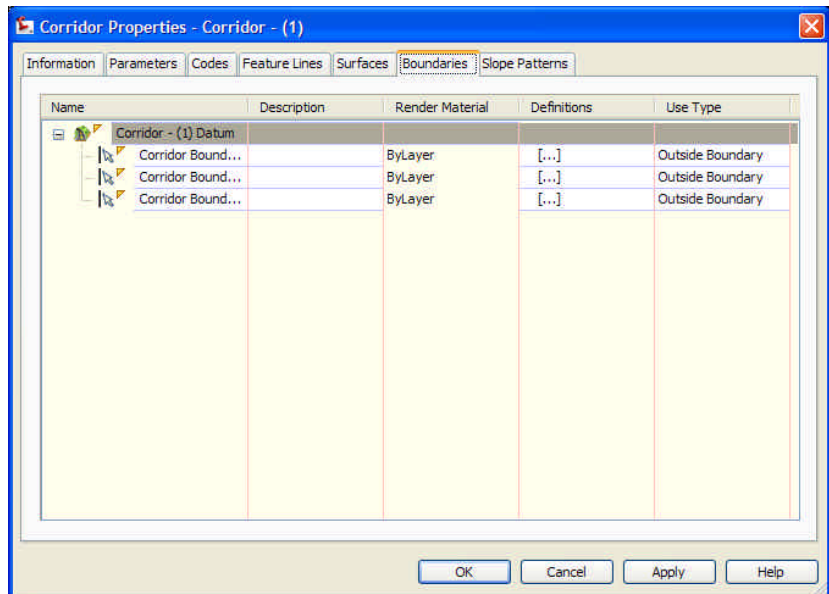
**CE 466 / 566 Highway Geometric Design  
Civil 3D Tutorial  
Homework 7 Supplement**

This is my best guess of how to remove your bridge from the calculations of earthwork. You could certainly find more elegant ways of doing this; I have just found that this way works.

The primary edit that I made was to define two major corridor boundaries to exclude the bridge area. To do this, you can use the Toolspace to open up your Corridor (click on “Corridors” in the Toolspace). Then, right-click on your corridor, and then open up “Properties...”. A window like the following appears – in this case, we will operate under the “Boundaries” tab.

You should already have a surface here from which you are doing earthwork calculations – the underlying subgrade (Datum). Here you can right-click on the specific surface (Datum), and then click on “Add Interactively...”

AutoCAD will then prompt you to select a set of features to draw a boundary. The boundary you draw should be a closed loop around some section of your corridor.



For example, I drew a closed loop around one part of my alignment below the bridge. As I went, AutoCAD prompted me to select the feature line I really wanted (see window below). For me, this was always Daylight (where the roadway cross-section meets the existing ground).

The secret here is to create two boundaries: one around the roadway on one side of the wash, and the other around the roadway on the second side of the wash. Then, you should see that the earthwork calculations from the corridor exclude the bridge section.

