

Introduction to Corridor Targeting in Civil 3D

How to use Civil 3D objects for subassembly targeting in corridors

Introduction

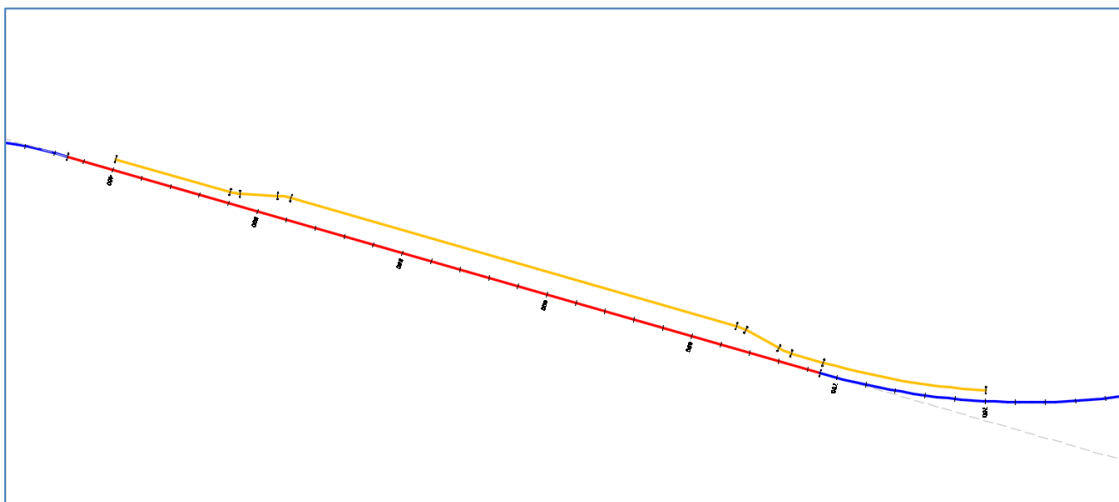
Civil 3D corridors, in their simplest form, are created by combining horizontal alignments, vertical profiles and fixed width assemblies to produce a set of geometric objects representing a linear design, e.g. a road, railway, ditch etc.

There are, of course, many situations where the horizontal or vertical characteristics of the design needs to vary according to design conditions, such as road widening, creation of refuge areas or bus layby etc. These complex design situations can be solved by using targets parameters on subassemblies within the corridor

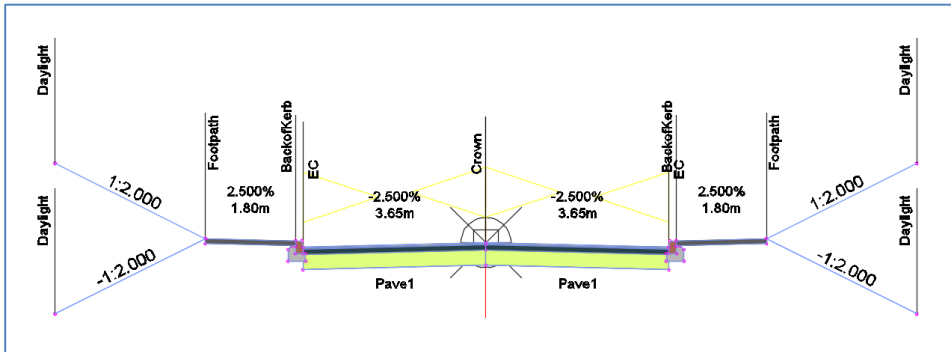
Method

The example below shows a main alignment with an offset alignment between Ch 450 and Ch 750 representing the path of a proposed layby.

(N.B. for the method used to create offsets alignments please see 'Creating Offset Alignments' White Paper [here](#))

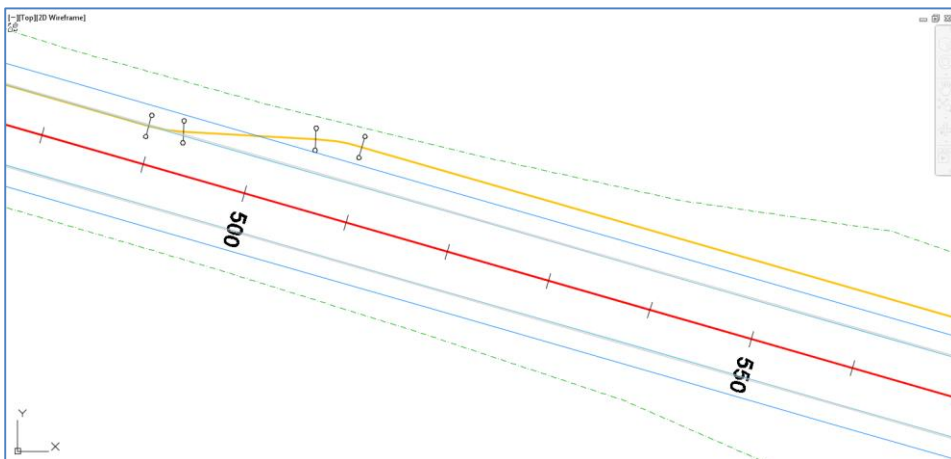


The assembly used to create a corridor is shown below:

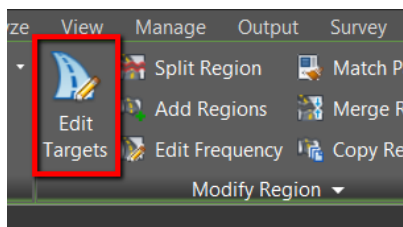


Notice the width is set to 3.65m and the crossfall is -2.5%

The image below shows the alignment with the corridor applied. Notice the offset alignment is not used yet.

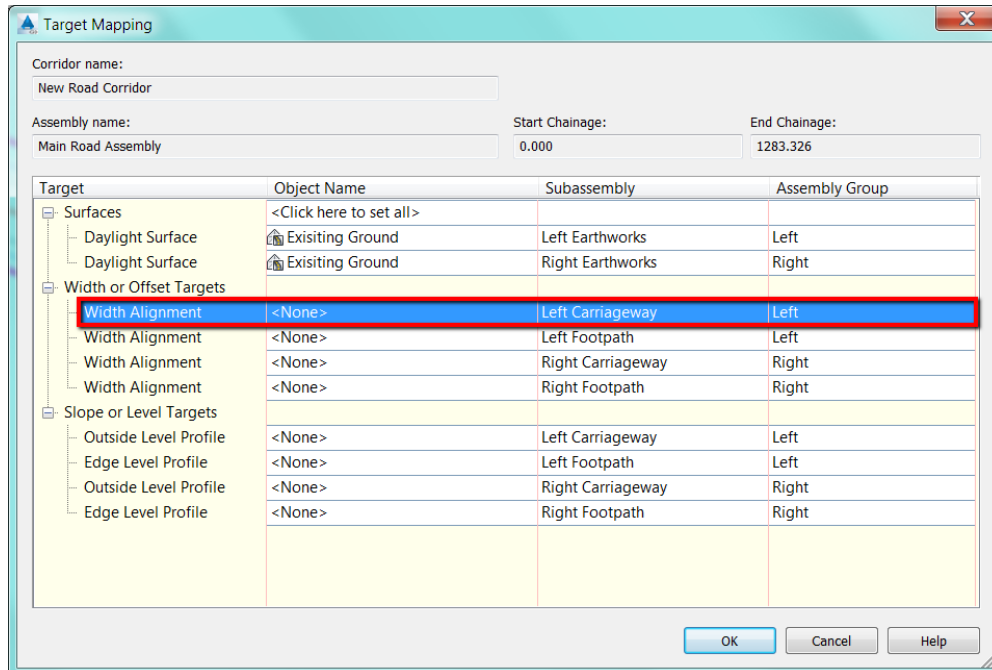


The design requires the left edge of carriageway to be at a fixed width of 3.65m until it encounters the offset alignment after which the width will vary according to the shape of the offset alignment. This is achieved by selecting the corridor then Edit Targets from the Modify Region panel:



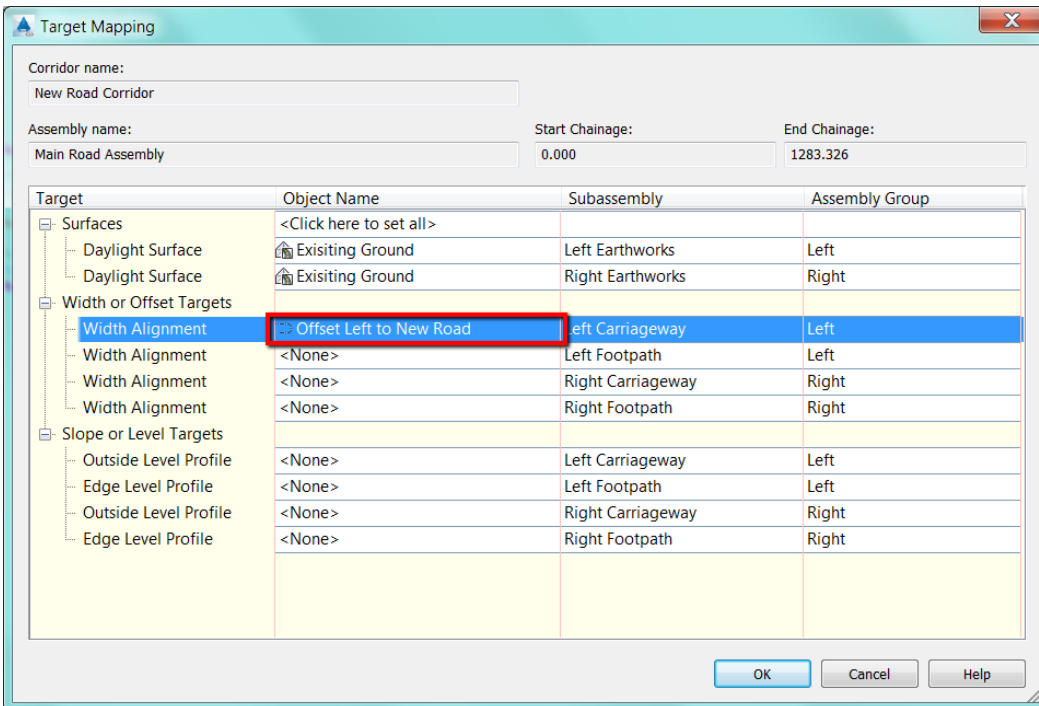
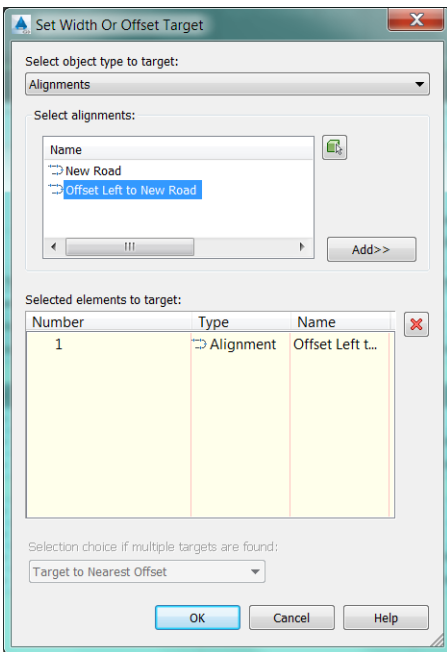
After selecting the region for editing the following dialogue will be displayed. The parameter we need to edit is the **Width Alignment** for the **Left Carriageway**.

Click on **<None>** in the Object Name for the Left Carriageway Width followed by OK

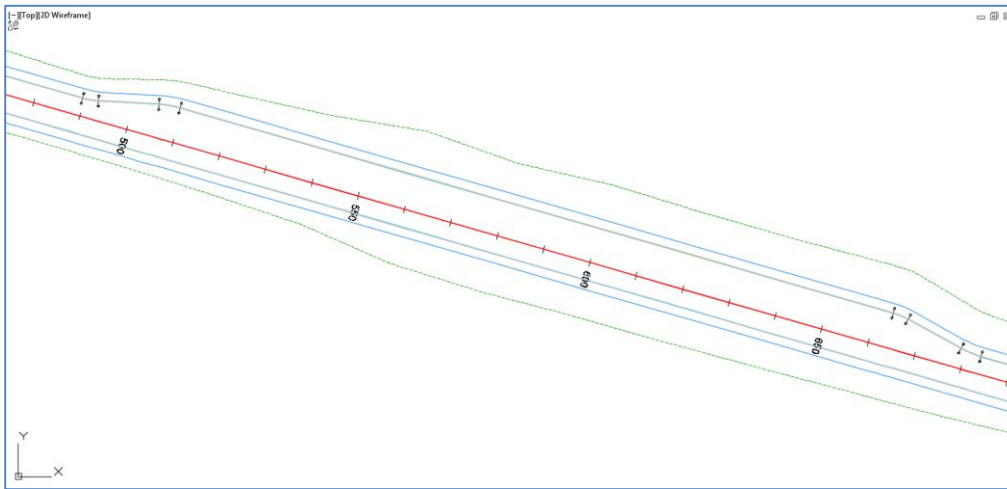


*N.B. Vertical targets can also be applied to assembly parts by using the **Slope or Level Targets** options*

On the following panel select the Alignment named '**Offset Left to New Road**' then Add>> to add the alignment name to the targets list then select OK.



The corridor will be updated to show the width targeting to the offset alignment.



The image below is of the widened area viewed in the Civil 3D Object Viewer

