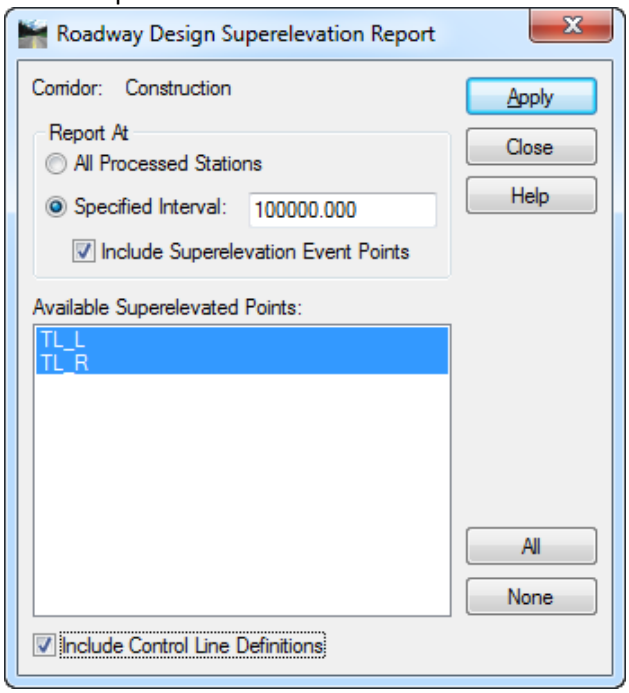
Exporting and Importing Superelevation Control Lines to a Different Corridor

Procedure Overview

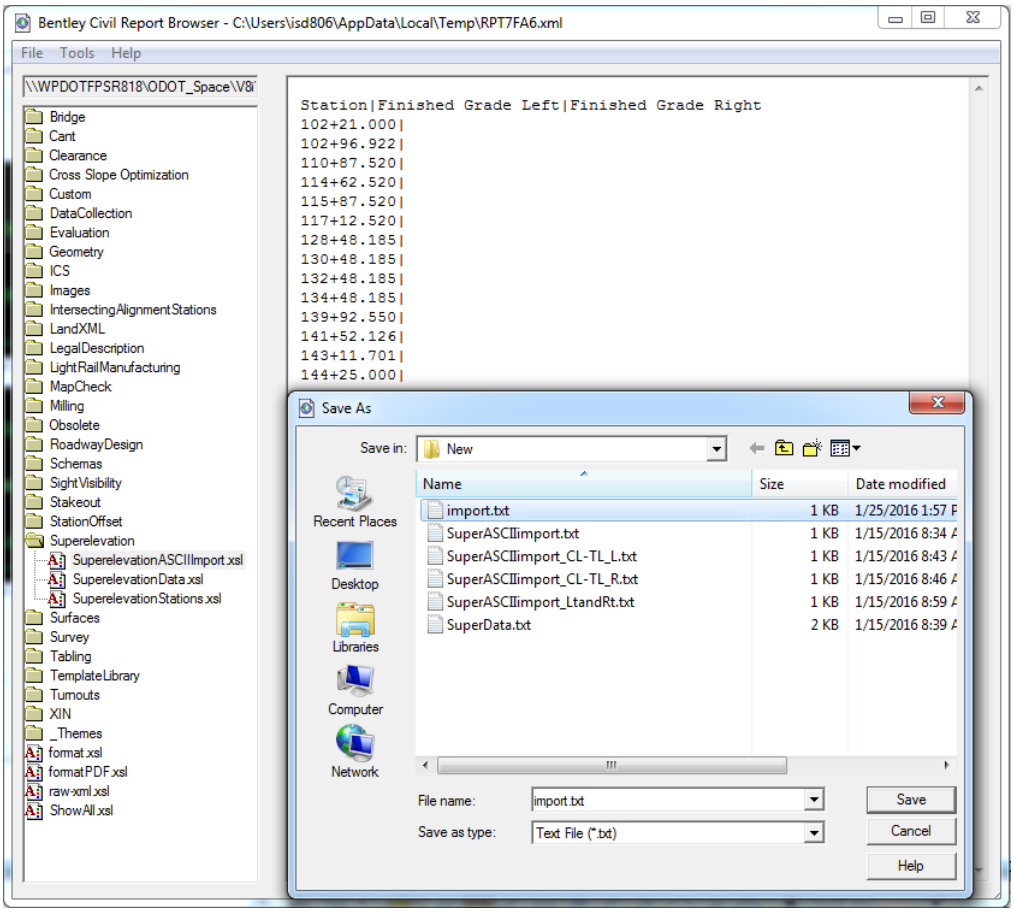
Perhaps you've spent a long time modifying your superelevation control lines and now you need to try them out on an entirely different corridor or on another, similar project. You'll discover that there is not a simple button to push for a corridor to access the superelevation control lines in another corridor. With a little editing between NotePad++ and the Civil Report Browser, though, you can use the **Superelevation Report…** to export the control lines and import them somewhere else using **Import Superelevation from ASCII…**.

Export using Superelevation Report…

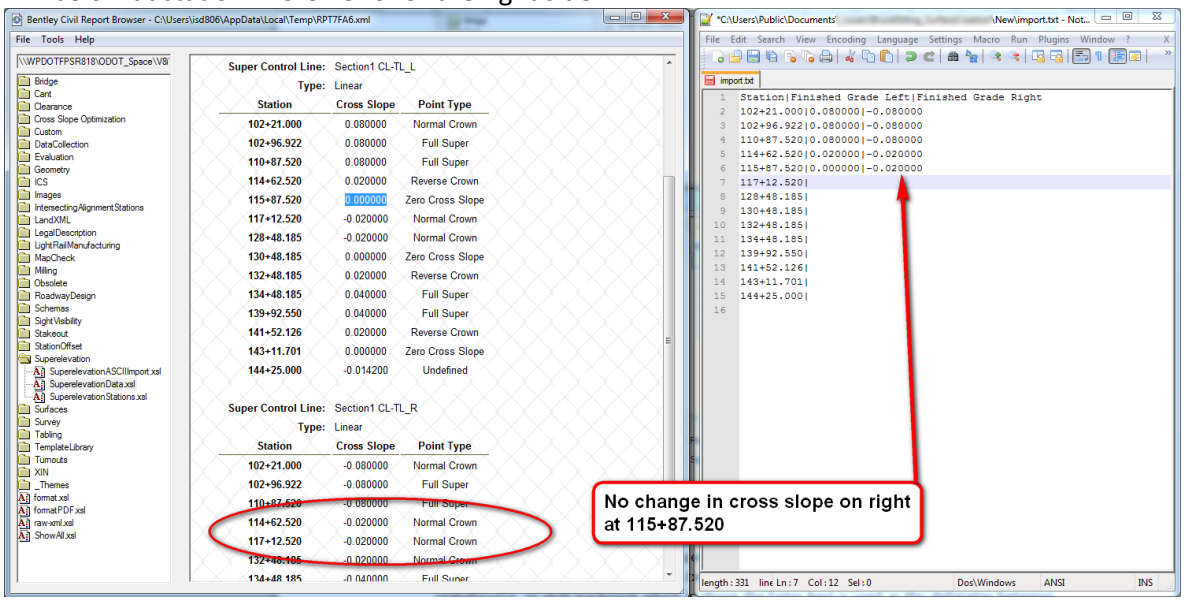
1. In the Roadway Designer with the .ird file loaded that contains the corridor with the super control lines that you want, select **Superelevation>Superelevation Report…**.
2. Fill out the **Roadway Design Superelevation Report** dialog carefully to get two different reports containing the data that you will need:
   A. Choose the radio button to Report at Specified Interval and set the interval greater than the length of your corridor, and check the box to "Include Superelevated Event Points" – this will result in an ASCII text file of only the stations where the superelevation rate changes.
   B. Select at least one Superelevated Point in the available list and check the box to "Include Control Line Definitions" – this will result in a Superelevation Data Report that contains the super rate at the super event station.



3. After you click [Apply], the **Civil Report Browser** will open; select the "SuperelvationASCIIImport.xsl" style sheet in the Superelevation folder. Set the **Tools>Format Options…** to increase the precision for slope and station if necessary, and use **File>Save As…** to save the ASCII file as a .txt file. (For example, import.txt)

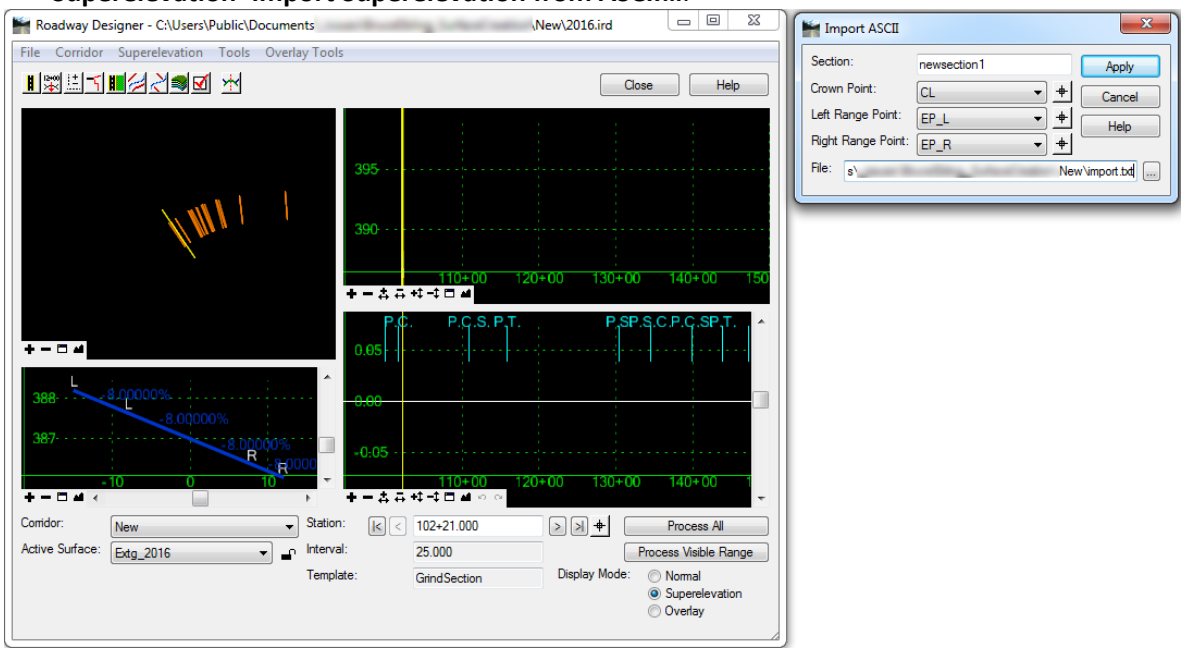


4. In Windows Explorer, open the text file using NotePad++ or another text editor and position the text editor near the Civil Report Browser.
5. In the Civil Report Browser, select “SuperelevationData.xsl” style sheet, then copy the Cross Slope values and paste them into the .txt file at the appropriate station. A pipe symbol (<Shift>+<\>, or shift-backslash which is above the Enter key) is used as the delimiter between the cross slope for the left control line and the cross slope for the right control line. When a cross slope rate does not change on one side, enter the constant rate as you see in the image below at station 115-87.520 for the right side.



6. Once you are finished compiling the import.txt file, save it.

7. In the Roadway Designer with the target .ird file loaded and the target corridor active, select **Superelevation>Import Superelevation from ASCII…**.



8. Fill out the **Import ASCII** dialog and select the point to rotate the super about as well as the left and right points on which to apply the super control lines, navigate to the import.txt file and click [Apply].