

GEOPAK Road for Bridge Exercise 12-1 Plan & Profile Sheets

Exercise 12-1

This is a group exercise to show how to use the GEOPAK Plan and Profile Sheets tool to create a single plan sheet rotated to the alignment in the area of a stream crossing.

1. Open the MicroStation file `t:\br-proj\a_geopak\d2\j2p0300\data\plan_j2p0300.dgn`. Attach `t:\br-proj\a_geopak_\d2\j2p0300\data\topo_j2p0300.dgn` as a reference file.

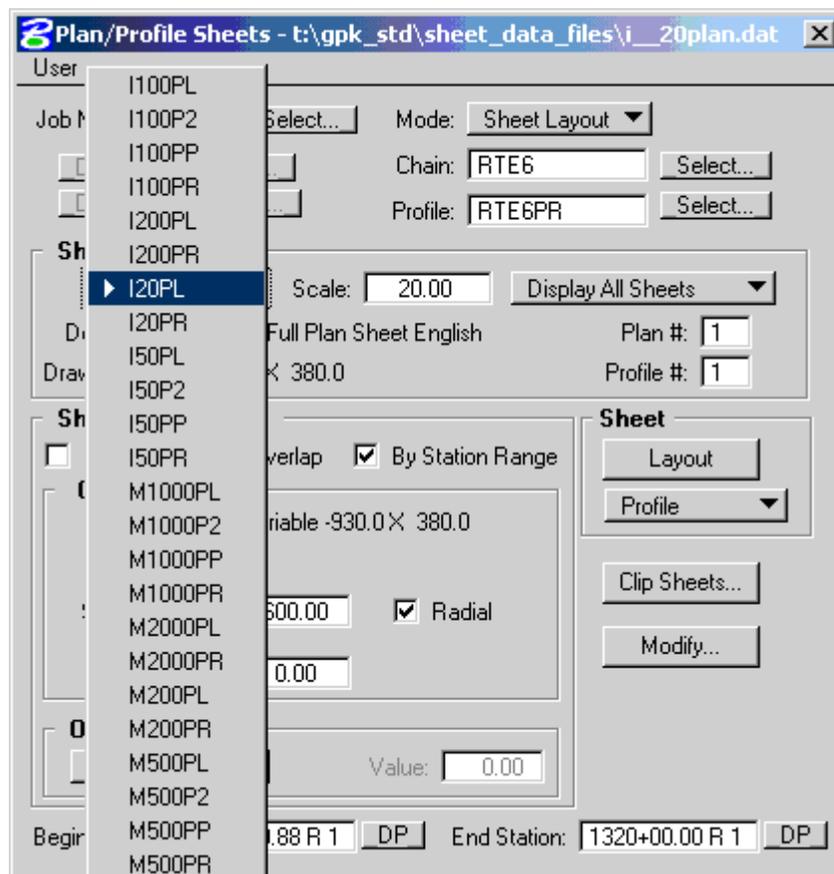
2. Open the project `j2p0300.prj` and enter **Road** as user `userc`. Use the **Rte6** working alignment.

3. Choose **Plan & Profile Sheets** from the **Road Project** flow chart.

Plan & Profile
Sheets

Copy the **English** run, name the new run **Rte6** and enter the new run.

4. In the **Sheet Info** area of the Plan/Profile change the sheet type to **I20PL**, which is an Imperial 20 scale full plan sheet, and the **Scale** to **20**, as depicted in the following figure.



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5. If a series of full plan sheets were being created, the **Sheet** group would need to be set to **Plan**, as shown in the following dialog.

The screenshot shows the 'Plan/Profile Sheets' dialog box. The 'Sheet' group is expanded, and 'Plan' is selected. The 'Sheet' group also includes 'Layout', 'Profile', 'Plan & Profile', and 'Modify...' buttons. The 'Sheet Info' section shows 'I20PL' selected for the sheet, a scale of 20.00, and a description of '1\"=20' Full Plan Sheet English'. The 'Sheet Composition' section has 'By Station Range' checked. The 'Clip' section shows a drawing area of variable -930.0 X 380.0, a station range of 600.00, and 'Radial' checked. The 'Overlap' section has 'PerCent' selected and a value of 0.00. The 'Begin Station' is 1268+90.88 R 1 and the 'End Station' is 1320+00.00 R 1.

The screenshot shows the 'Modify' dialog box with five buttons: 'Place Single Plan Sheet', 'Slide Single Plan Sheet', 'Adjust Profile Sheet', 'Modify Drawing Area', and 'Edit Sheet Number'.

Since a single sheet will be placed, this setting is not important. Instead, click on the **Modify...** button under the Sheet group selection. This will display the Modify dialog shown to the left.

Click on **Place Single Plan Sheet** in the dialog box and move the mouse cursor into the MicroStation window in the area where Route 6 crosses the stream near the middle of the topographical information. Move the mouse until the white box that appears is centered on the stream crossing and data point to accept the sheet's location.

If you need to reposition the sheet, once it is placed, click on **Slide Single Plan Sheet**, which will allow you to reposition the sheet.

Zoom into the area where the sheet was placed. Inside of the white rectangle is a gray dashed line that represents the area that will be clipped and viewed in the sheet file once it is created. This clip boundary can be modified by clicking on **Modify Drawing Area** button and data pointing on one of the corners of the clip boundary. The next data point will locate that corner in a new location. **Close the Modify dialog box.**

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6. Save the changes to the MicroStation file. Return to the Plan/Profile Sheets dialog and click on **Clip Sheets**, which is right above the Modify... button.

Plan/Profile Sheets - t:\gpk_std\sheet_data_files\i_20plan.dat

User

Job Number: 300 Select... Mode: Sheet Layout

Define Profile Origin... Chain: RTE6 Select...

Define Tabular Data... Profile: RTE6PR Select...

Sheet Info

I20PL Scale: 20.00 Display All Sheets

Description: 1"=20' Full Plan Sheet English Plan #: 2

Drawing Area: 620.0 X 380.0 Profile #: 1

Sheet Composition

By Begin Station/Overlap By Station Range

Clip

Drawing Area: variable -930.0 X 380.0

Station Range: 600.00 Radial

Vertical: 0.00

Overlap

PerCent Value: 0.00

Begin Station: 1268+90.88 R 1 DP End Station: 1320+00.00 R 1 DP

Sheet

Layout

Plan

Clip Sheets...

Modify...

This will bring up the following **Clip Sheets** dialog, which is okay as it appears. Click on Process to generate the sheets.

Clip Sheets

Output File: plan_prof.dgn File...

Reference File: t:\standard\wsmo\design\seed_m\ File...

Add Update Delete

Reference File	Display
t:\br-proj\va_geopak\d2\2p0300\data\plan_j2p0300.dg	Y
t:\br-proj\va_geopak\d2\2p0300\data\topo_j2p0300.dg	Y

Place Sheet Cell: PLTDTA Sheets/File: 1

Attach Sheet Cell Reference Attach Image

Label

Sheet Params...

Match Lines

Compose...

Define Annotation...

Rotate

View

Reference

Process

Sheet Range

Begin: 1 End: 1

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The screen will flash and a File is Read Only alert may appear. Accept the alert and a new file will appear called **plan_prof1.dgn**. It is created in the Working Directory. If you had wanted a different name for the file, the other name could have been typed into the **Output File:** field in the **Clip Sheets** dialog.

7. Close the Plan/Profile Sheets dialog tool and say **Yes** to **Save Plan/Profile Sheet Settings**. Save the changes to the MicroStation file.