

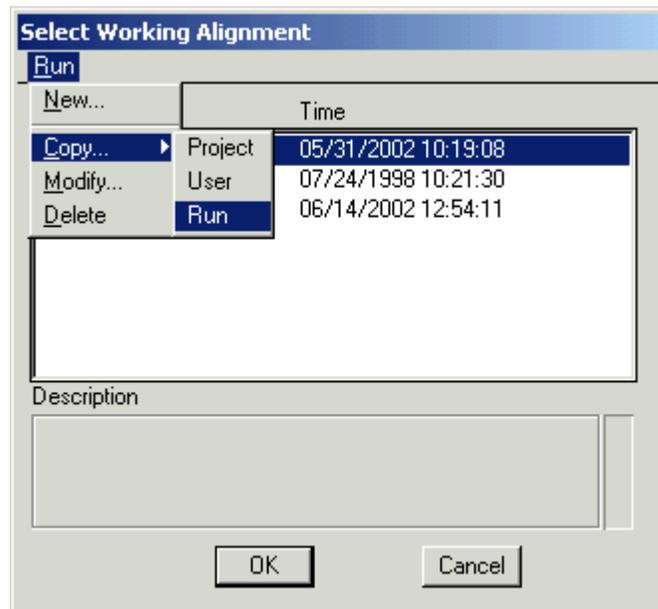
**Exercise 10-1** This is a group exercise

1. Open MicroStation file `t:\br-proj\a_geopak\d2\j2p0300\data\topo_j2p0300.dgn`.

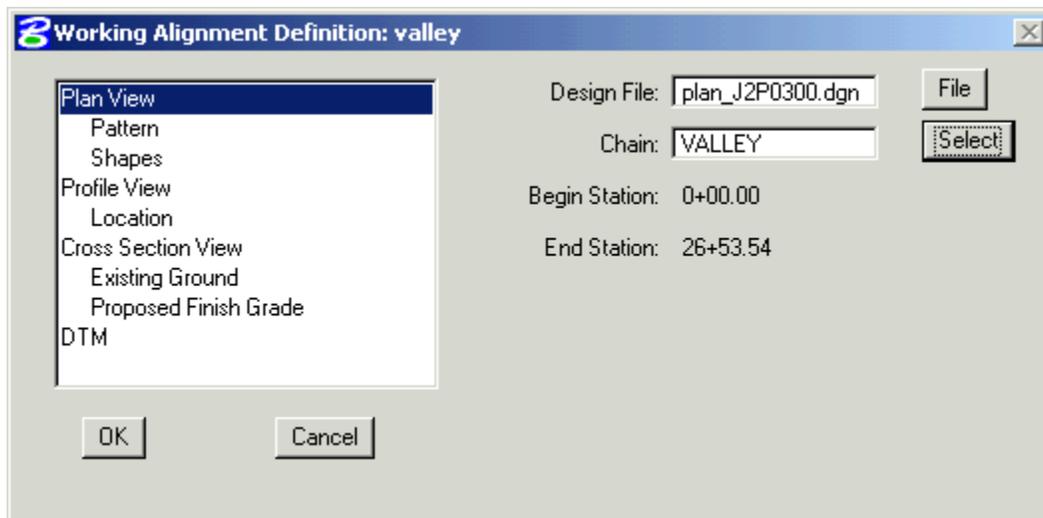
If the line indicating the location of the valley section is not visible, use Level Manager to turn on Level 22.

2. Open the project `j2p0300.prj` and enter **Road** as user `userc`.

Copy the J2P0300 working alignment to **Valley** and enter that working alignment.



Go to the **Plan View** screen in the working alignment definition and select **VALLEY** as the default chain.



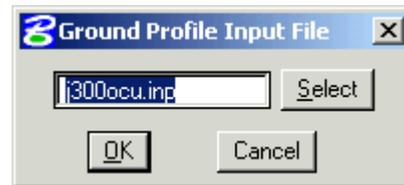
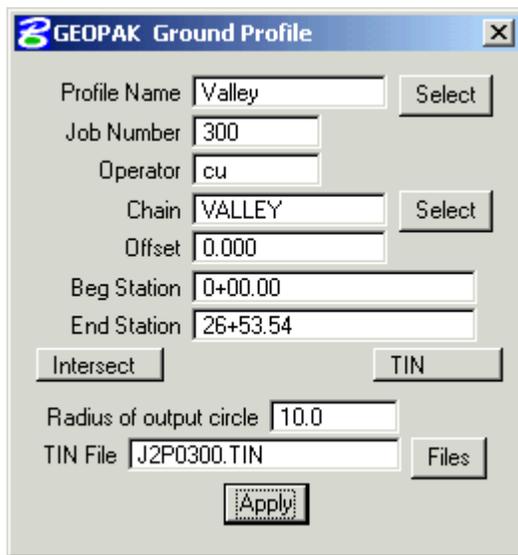
3. Choose **Existing Ground Profile** from the **Project Manager** dialog.



Copy the **MoDOT** run, name the new run **Valley** and enter the new run.

4. Create an original ground profile for the valley section.

Profile Name: **Valley.**  
 Job Number: **300.**  
 Operator: **cu.**  
 Chain: **VALLEY.**  
 Offset: **0.**  
 Beg. Station: *Will be filled in when the chain is chosen.*  
 End Station: *Will be filled in when the chain is chosen.*  
 Mode: **Intersect** **TIN.**  
 TIN File: **j2p0300.tin.**



Click **OK** to create the ground profile input file, **Yes** to store the profile, and **Yes** to delete the 3D profile string.



Close the Ground Profile dialog, saving the settings.

5. Open MicroStation file `t:\br-proj\br-geopak_d2\j2p0300\data\profile_j2p0300.dgn` and attach `t:\br-proj\br-geopak_d2\j2p0300\data\plan_j2p0300.dgn` as reference files

6. Plot the existing ground profile above the plan view geometry using **D&C Manager** item **Drafting Standards \ Profile \ Existing Ground Profiles \ 1"=100' Existing Ground Profile** and clicking on **Draw Plan & Profile** in the operations box.

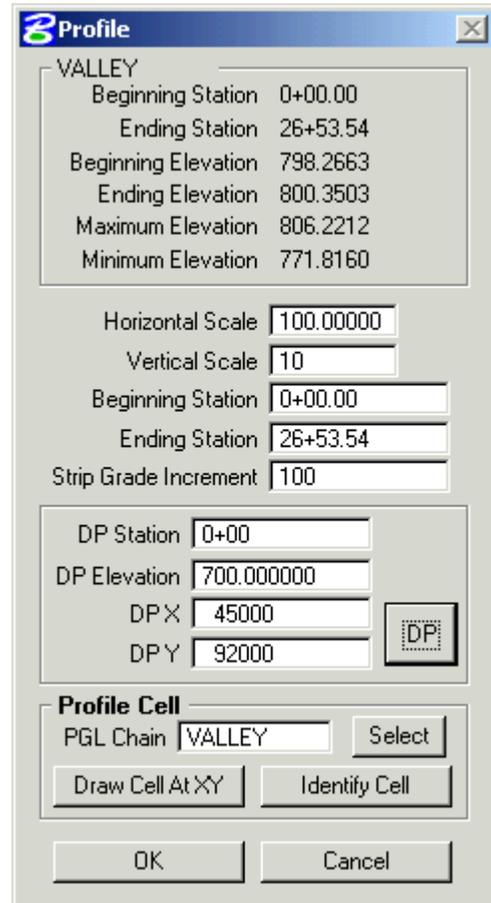
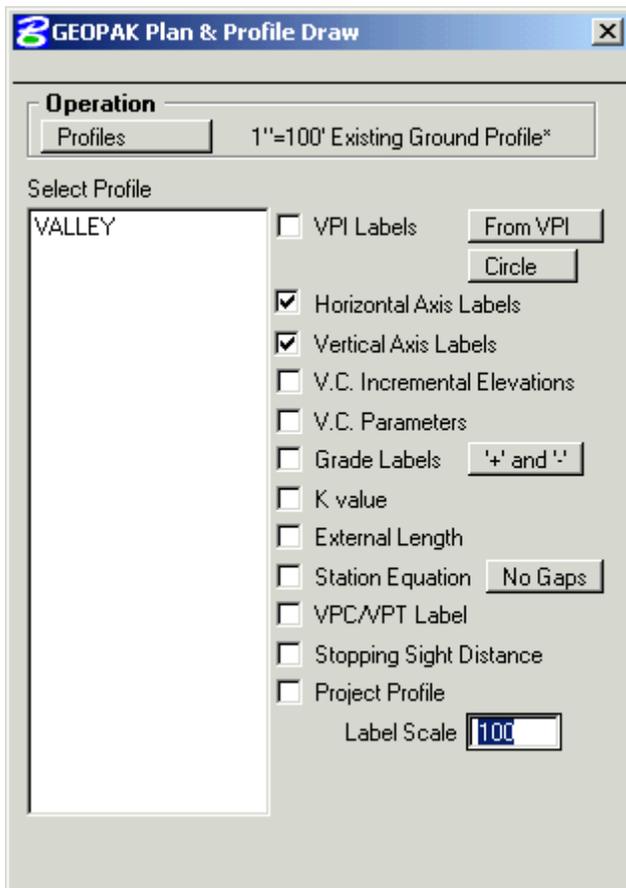
Set the **Labeling Scale** to **100** and turn on the following options as depicted below in the figure on the left:

- Horizontal Axis Labels**
- Vertical Axis Labels**

Choose the profile **Valley**, to bring up the dialog shown below in the figure on the right.

Set the following parameters:

- Horizontal Scale: **100**
- Vertical Scale: **10**
- DP Station: **0+00.00**
- DP Elevation: **700**
- DP X and Y: *Press **DP** and data point on the screen in an open area above the plan view data or enter the values shown.*
- PGL Chain: **VALLEY**

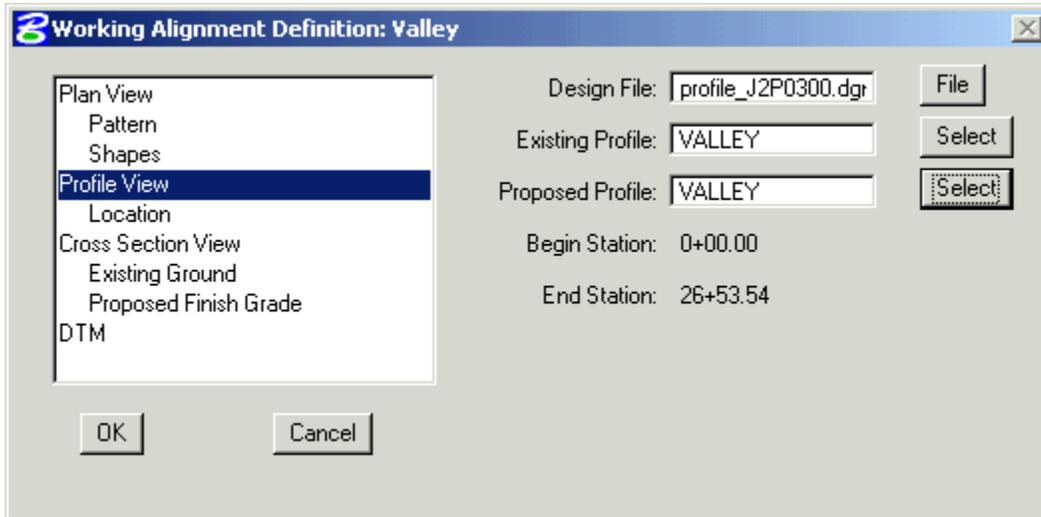


Press **Draw Cell At XY** and **OK** buttons to draw the profile cell and existing ground.

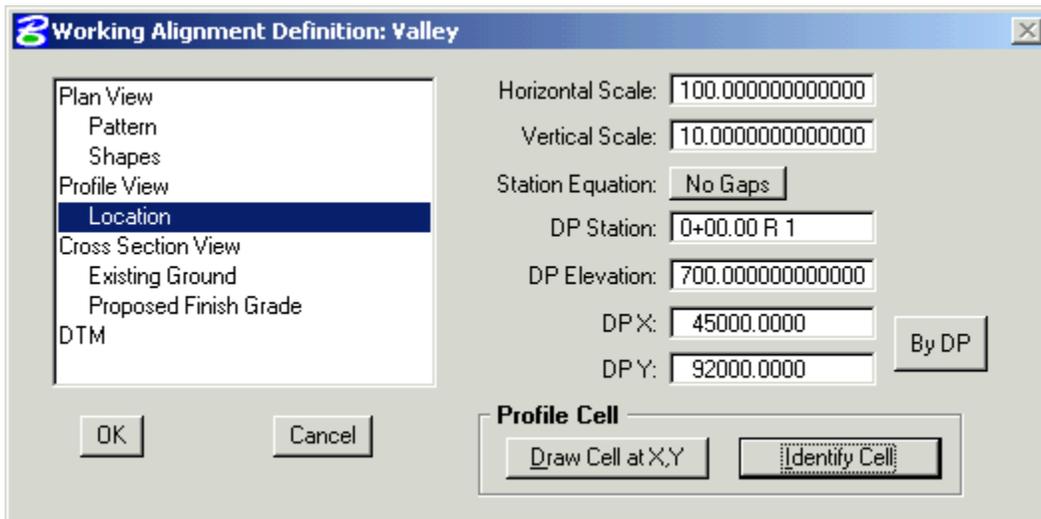
7. Complete the **Profile View** and **Location** sections of the **Valley Working Alignment**.

Existing Profile: **VALLEY**

Proposed Profile: **VALLEY**



For the **Location** section, use the **Identify Cell** button to choose the profile cell.



Accept the changes by clicking on the **OK** button.