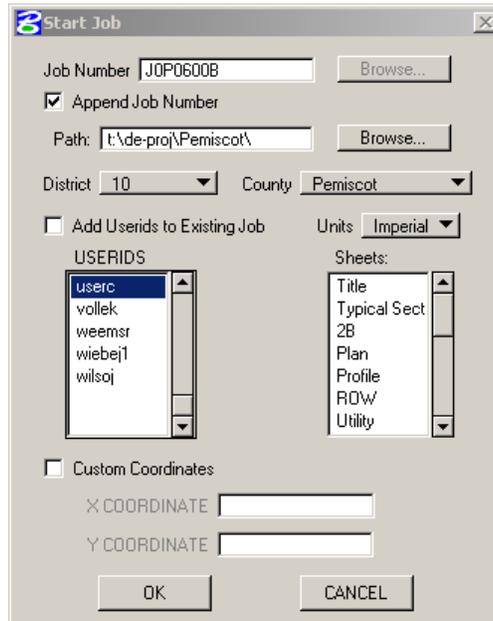


Borrow Pit (Tin File Method)

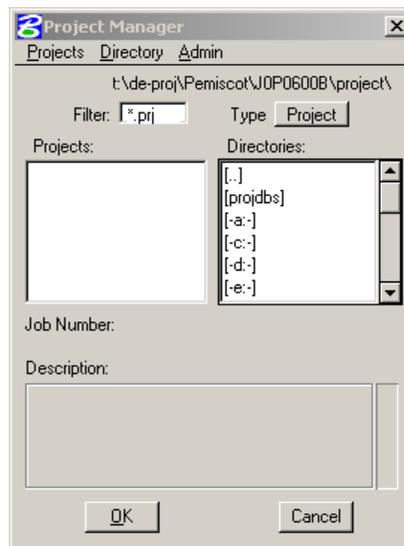
1) Create Project Folder and default MicroStation Files.



2) Open T:\de-proj\Pemiscot\JOP0600B\data\plan_JOP0600B.dgn

3) Create JOP0600B Project in GeoPak by selecting the following:
Applications > GeoPak Survey > Project Manager

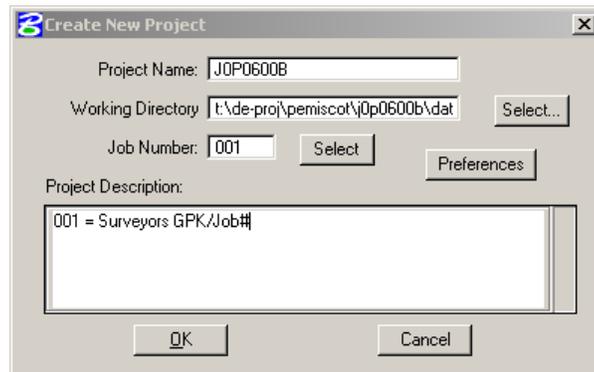
4) In Project Manager set the path to T:\de-roj\Pemiscot\JOP0600B\Project\



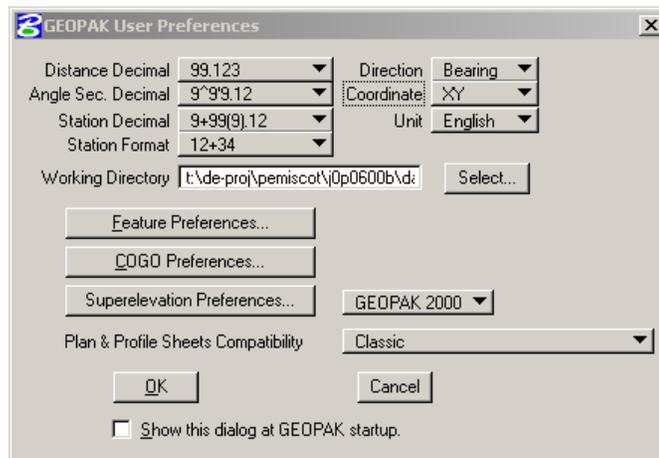
5) Go to the project pull down in the upper left corner and select "New"

Borrow Pit (Tin File Method)

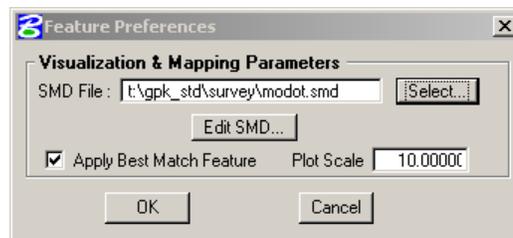
6) Fill out the "Create New Project" dialog the same as below.



7) Click on "Preferences" and set as below:



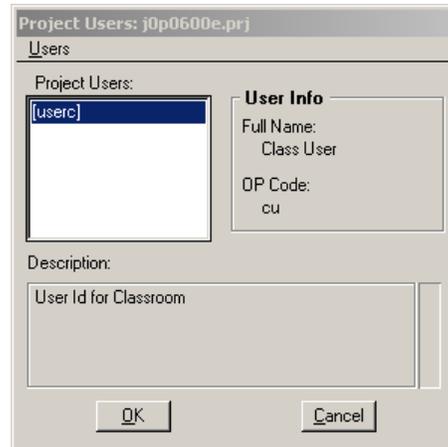
8) Click on Feature Preferences and make sure "Apply Best Match Feature" is checked on.



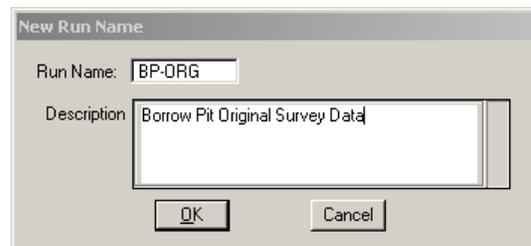
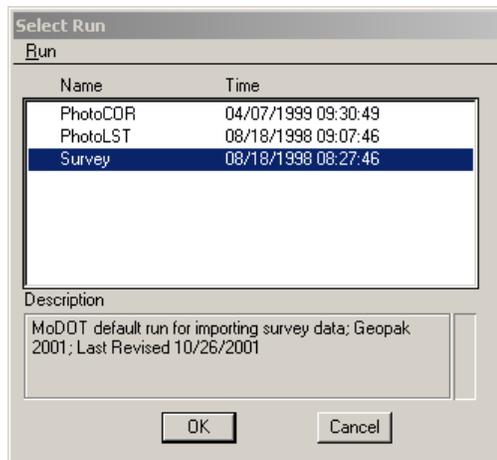
Borrow Pit (Tin File Method)

9) For the Project User select "userc"

10) Select "Survey"

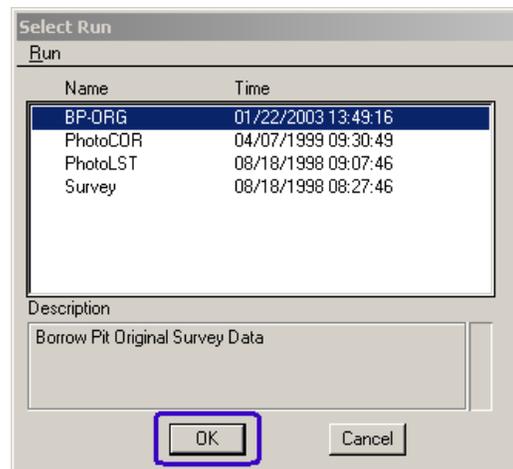
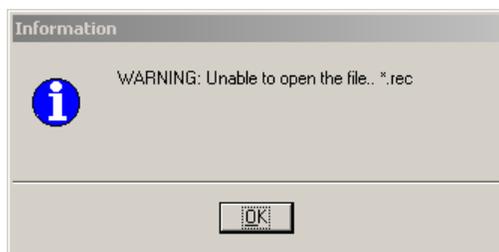


11) Do a "Run > Copy > Run" and select the "Survey" Run. Call the new run BP-ORG (See Below).



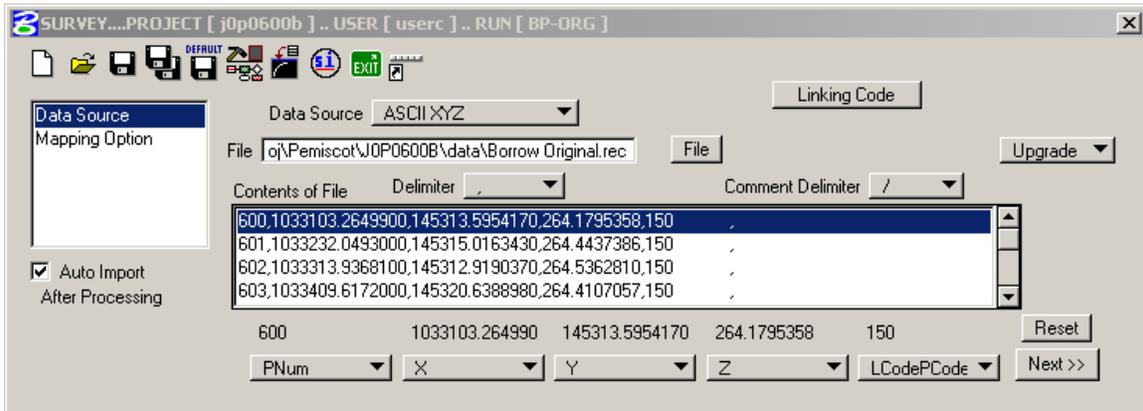
12) Select the BP-ORG run and select "OK"

Ignore Dialog box below

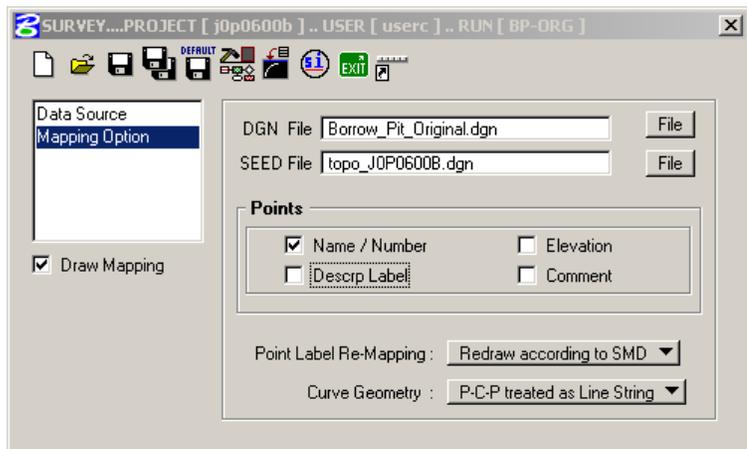


Borrow Pit (Tin File Method)

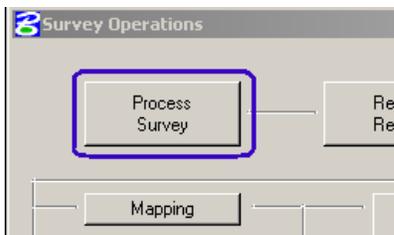
13) Set the "Data Source" Dialog same as below:



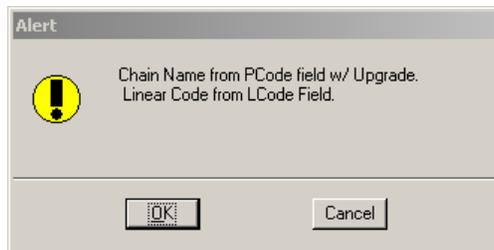
14) Set the "Mapping Option" Dialog same as below and save the run.



15) Select "Process Survey"

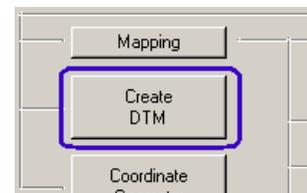


16) Ignore "Alert" dialog by selecting "OK"



17) Do a MicroStation Fit View "Fit View" and the Borrow Pit Survey shots should appear.

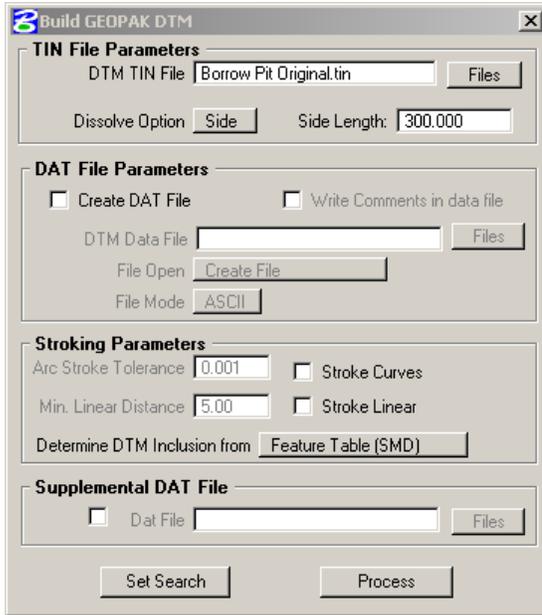
18) Select "Create DTM" from the Survey Operations dialog.



Borrow Pit (Tin File Method)

19) Fill out the "Build GeoPak DTM" dialog as below.

Also select "Set Search" and check "BP-ORG"

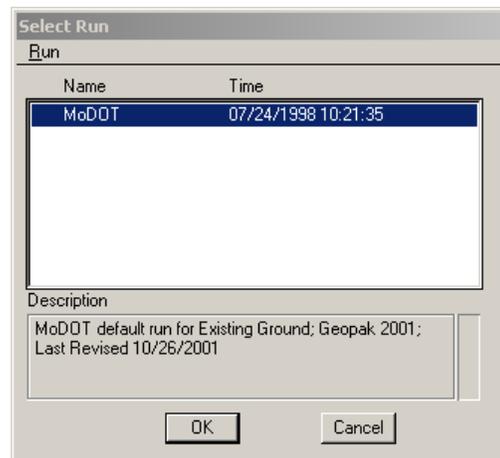


20) View the tin file using the "Load DTM Features" pull down by selecting the following:

Applications > GeoPak Road > DTM Tools

Select the "MoDOT" run and hit "OK" →

Select the "DTM Menu" Icon →

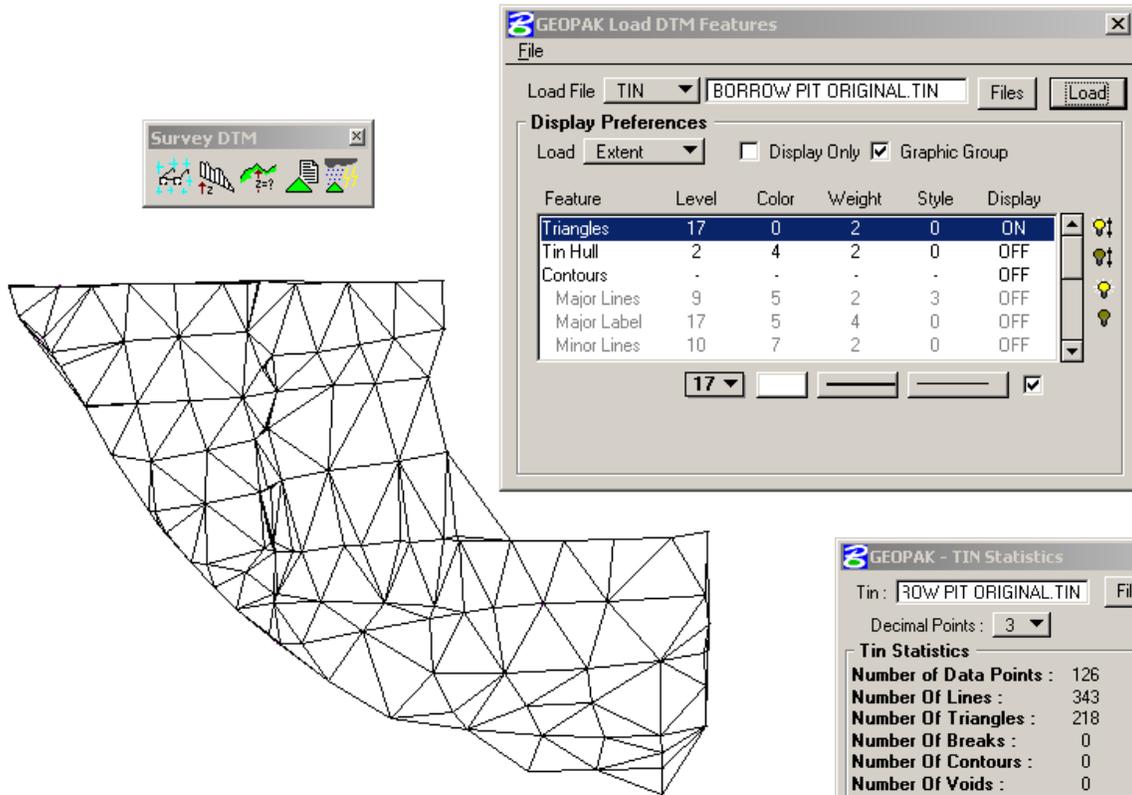


Now Select the "Load" pull down →



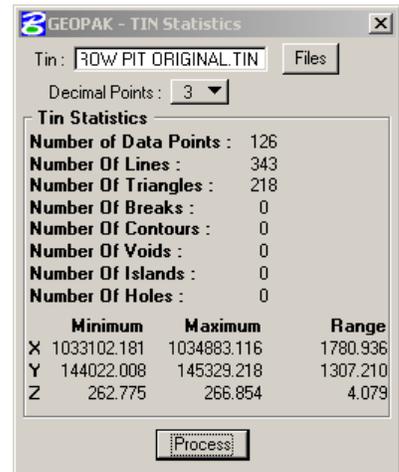
Borrow Pit (Tin File Method)

21) Fill out The "GeoPak Load DTM Features" Dialog same as below:

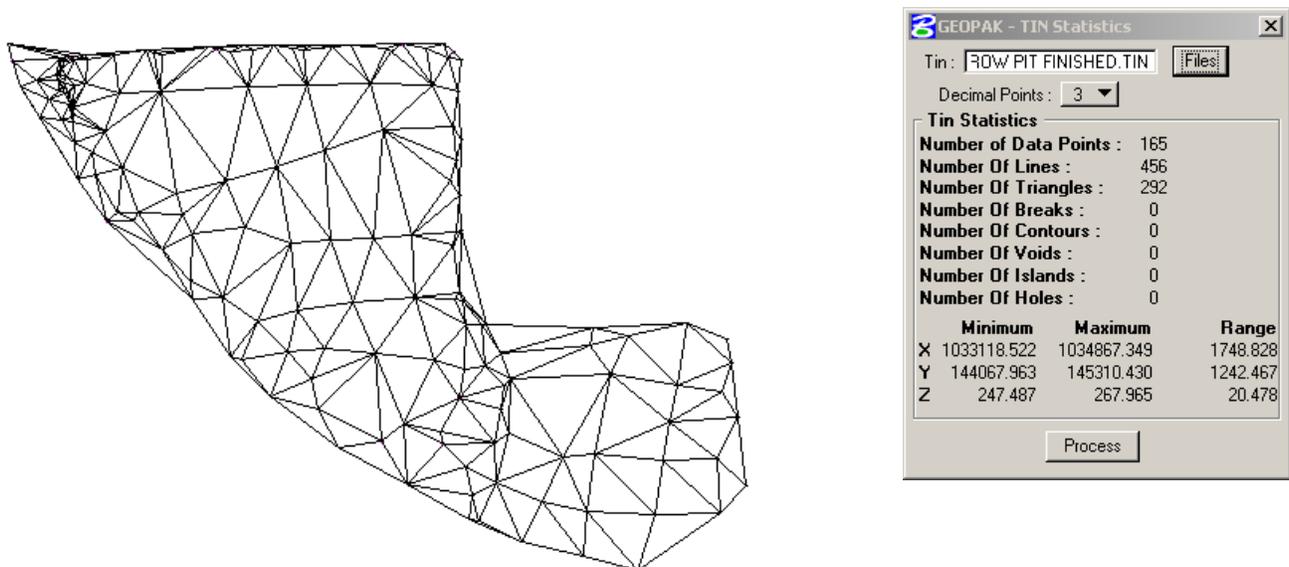


22) Tin Statistics can also be generated from the DTM Menu →

To do this, go to **Reports > Triangle Statistics**



23) Repeat steps 10 through 22 for the Survey file called **Borrow Finished.REC**



Borrow Pit (Tin File Method)

24*) Now that we have the 2 tin files created we can now calculate the volume between them. To do this we'll need to use the DTM (Digital Terrain Model) Tools.

Applications > GeoPak Road > DTM Tools

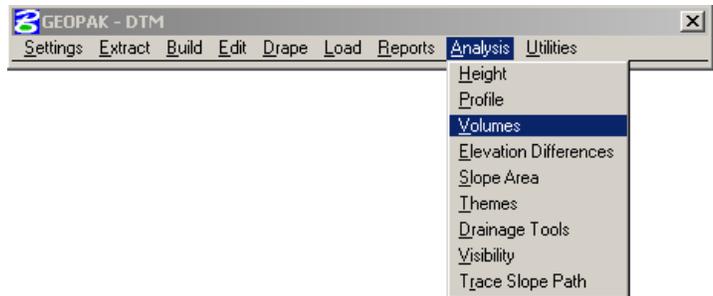
Select the "MoDOT" run and hit "OK" →



Select the "DTM Menu" Icon →



Now select the "Analysis" pull-down →



25) Define the "From and To TIN" and hit "Process"

