Iowa Department of Transportation
Office of Design

Loading Datasets

Design Manual
Chapter 40
Design Survey
Specifications

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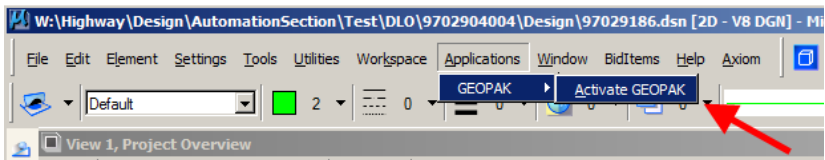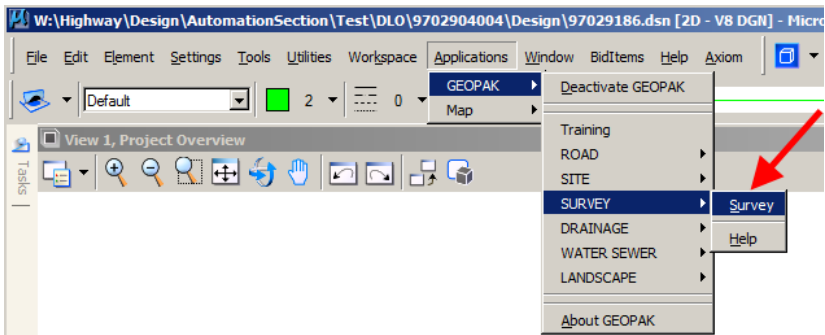
A dataset is a file, or files, containing survey information that is loaded into GEOPAK. Each dataset may contain the work from just one day, or the work for an entire project. After the project has been created, the first dataset can be created.

Start GEOPAK from the MicroStation menu by selecting **Applications > GEOPAK > Activate GEOPAK**, as shown at the right.
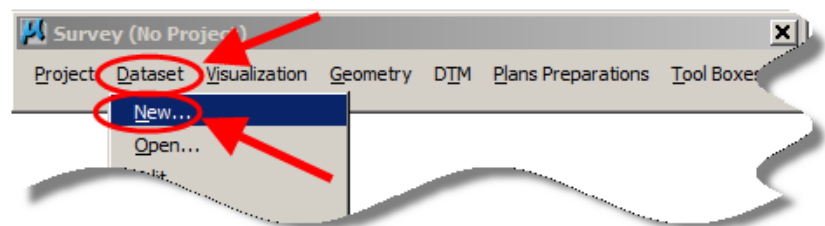
After GEOPAK has been activated, access the GEOPAK **Survey** menu from the MicroStation menu by selecting **Applications > GEOPAK > SURVEY > Survey**, as shown at the right.
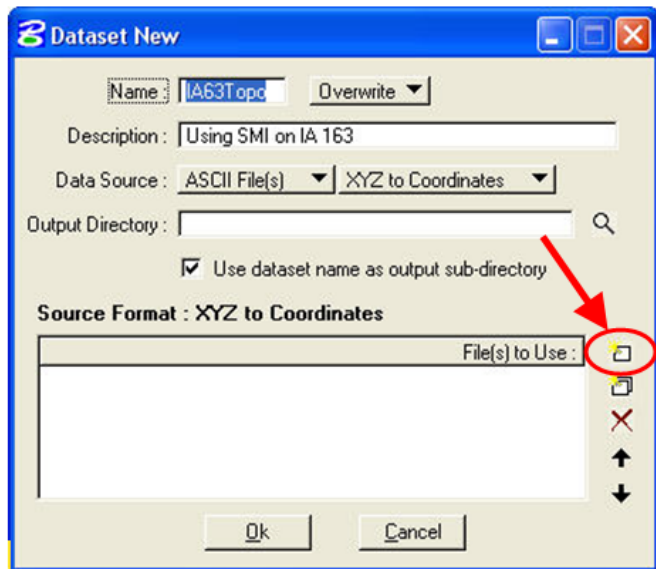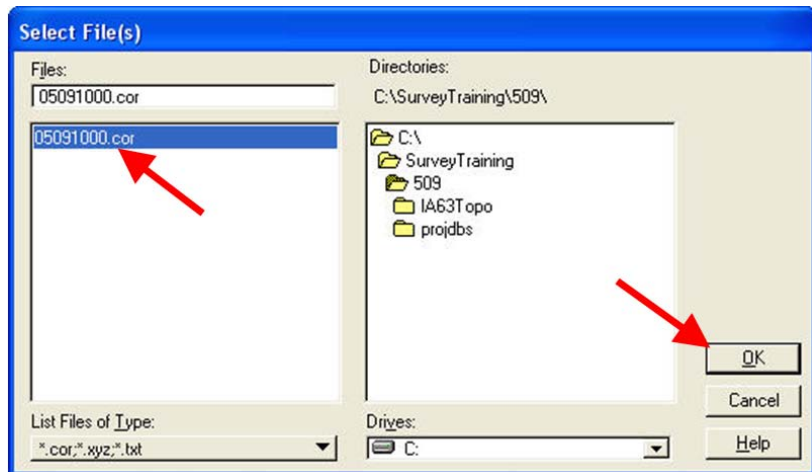
The **Survey** menu should display, as shown below.

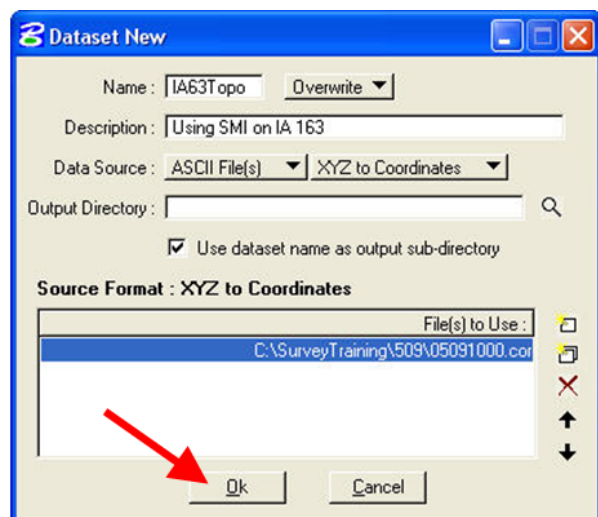From the GEOPAK **Survey** menu tool bar, select **Dataset > New.**

The **Dataset New** dialog will appear and will display values that are based on the previously established preference settings. To select the file containing the survey information, *click* the **Dataset Add Source File to List** button, as shown at the right.
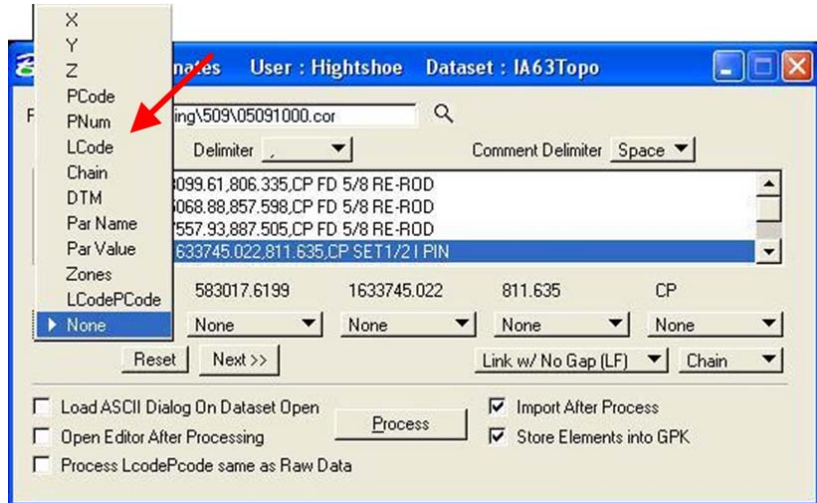
Select the file then *click* the **OK** button.

When all data areas display the correct information *click* the **OK** button.
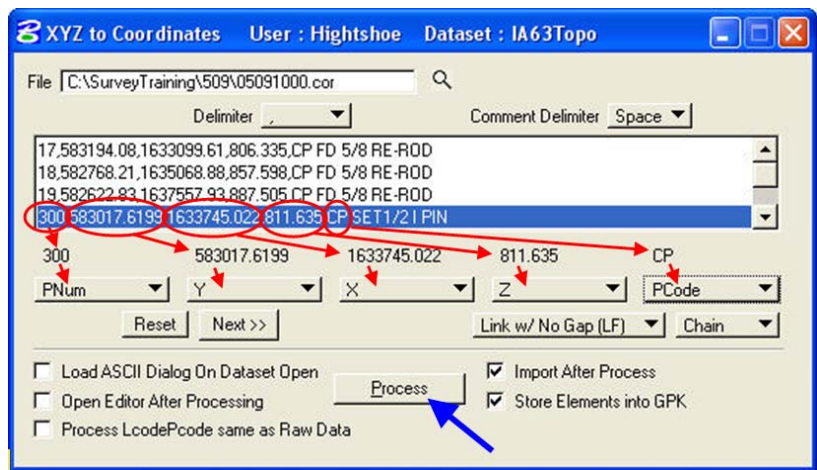
After *clicking* the **OK** button above, the "**XYZ to Coordinates**" dialog will display. You must "tell" GEOPAK what each column of data represents. (Column data explained below.) There are many options available, as shown by the *pop-up* selection list and the red arrow at the right.

Each blue highlighted "row" of data on this dialog represents several columns of data, as shown below by the red ovals and arrows. The column data and headings for the highlighted row are as follows:

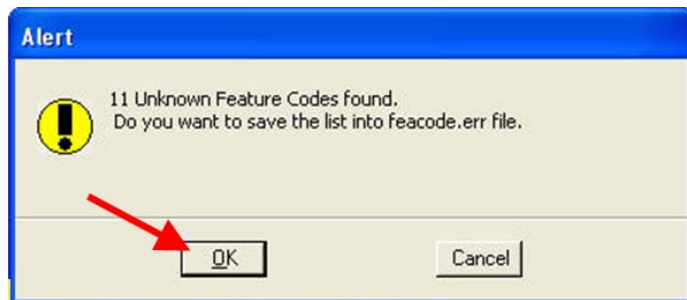|	
300	PNum
583017.6199	Y
1633745.022	X
811.635	Z
CP	PCode.

For a standard XYZ ASCII file, you should use the settings shown in the dialog at the right. After all of the columns have been identified, *click* the **Process** button as shown by the blue arrow.
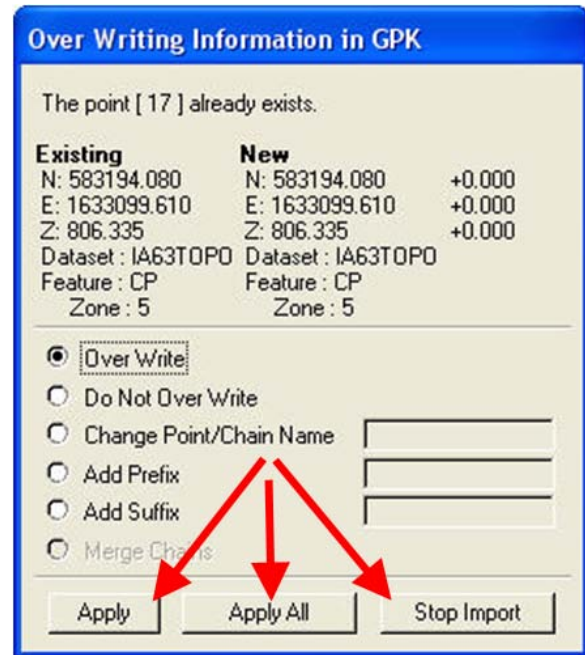
This **Alert** dialog explains how the chains will be named. *Click* the **OK** button to continue.
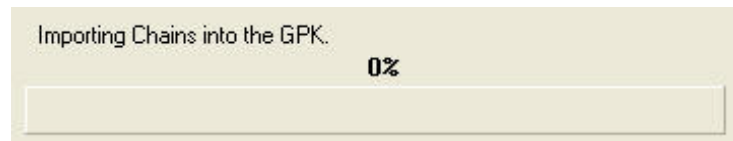
The next **Alert** dialog will display if any feature codes have been used that are not in the "smd" file. *Click* the **OK** button to continue.

If a point name has already been loaded into the "gpk" file from another dataset, the **"Over Writing Information in GPK"** dialog will display. You must select what action to take to resolve the issue then proceed by *clicking* one of the three buttons at the bottom.

After the "**Importing Points …"** and **"Importing Chains …"** dialogs have come and gone, the survey information will have been plotted into the MicroStation file. If there were any unknown feature codes, the **"Over Writing …"** dialog shown above will display again.
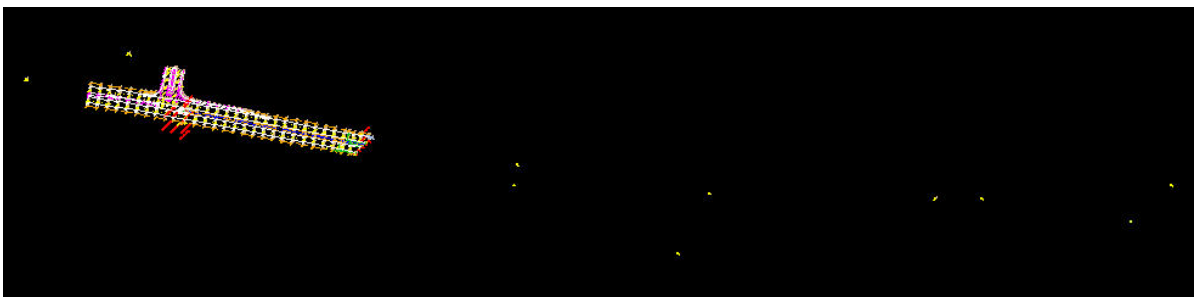

If a final **OK** button appears, c*lick* the **OK** button to complete the process.

You can use the MicroStation **Fit View** command to display all of the survey information on a single view screen.

An example of a **Fit View** of the survey information is shown below.

Chronology of Changes to Design Manual Section:

040D-003   Loading Datasets

9/30/2011   NEW
              New