
Chapter 9

Labeling

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9.1 Objectives

- Learn how to label information with Plan View, Profile View, and Cross-Section Labeler

9.2 Definitions

The GEOPAK **Labeler** is a tool that allows the user to construct labels using text inserts, computed inserts, and key-in text. The **Labeler** is available for plan view, profile view, cross-section view, and drainage elements.

9.3 Accessing

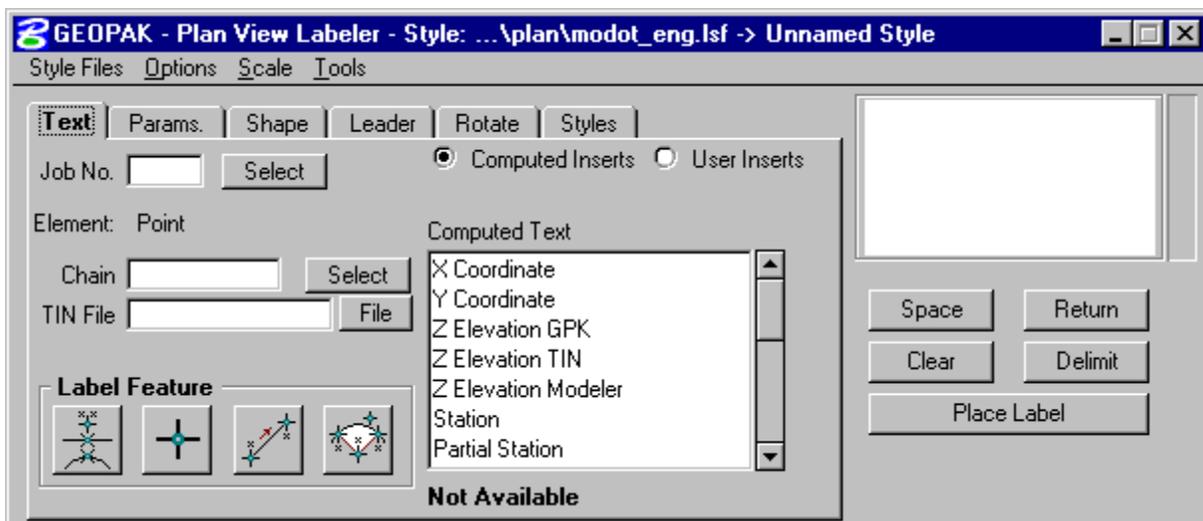
Plan View Labeler can be accessed from the **Plan View Labeling** icon. 

Profile View Labeler can be accessed from the **Profile View Labeling** icon. 

Cross Section Labeler can be accessed from the **Cross Section Labeling** icon. 

9.4 Dialog

GEOPAK's labeling tools allow a user to place "smart" labels in a Microstation drawing. These labels have the ability to calculate XYZ coordinates, station, offset, direction, length, radius, degree of curvature, etc. of the element the label is attached to.



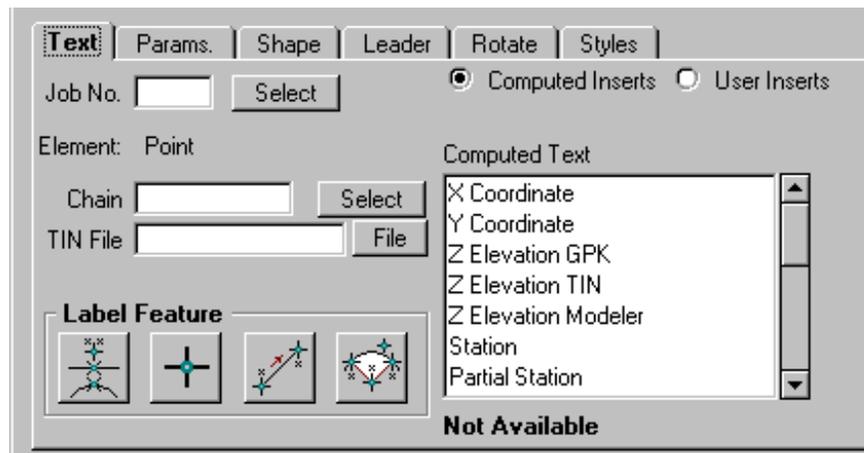
When the **Plan View Labeling** icon is selected, the above dialog appears. The label to be placed will be displayed in the box on the right side of the dialog. The **Space** button will put a space in the label at the cursor position. The **Return** button will start a new line of text. The **Clear**

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button will start a new label. The **Delimit** button will place a line above or below a line of text. The **Place Label** button will place the label on the cursor to be placed in the drawing.

The user can select the various tabs to modify the label appearance.

9.4.1 Text



The **Text** screen allows the user to add computed text inserts, or user text inserts. For data to be computed, the job number and the chain need to be selected. If elevations are to be calculated, a .tin file needs to be chosen.

The **Computed Inserts** are items that Geopak has the ability to calculate for the chosen item. The list of **Computed Inserts** changes with the type of element that is chosen. If a line is chosen, the list of **Computed Inserts** will show inserts of bearing, and length. If a curve is chosen the list of **Computed Inserts** will change to show inserts of radius, curvature, chord length, etc.

The user can select different elements by using the icons in the **Label Feature** section.



Allows the user to select a graphical element such as a point, line, or curve.



Allows the user to data point a location on the screen.



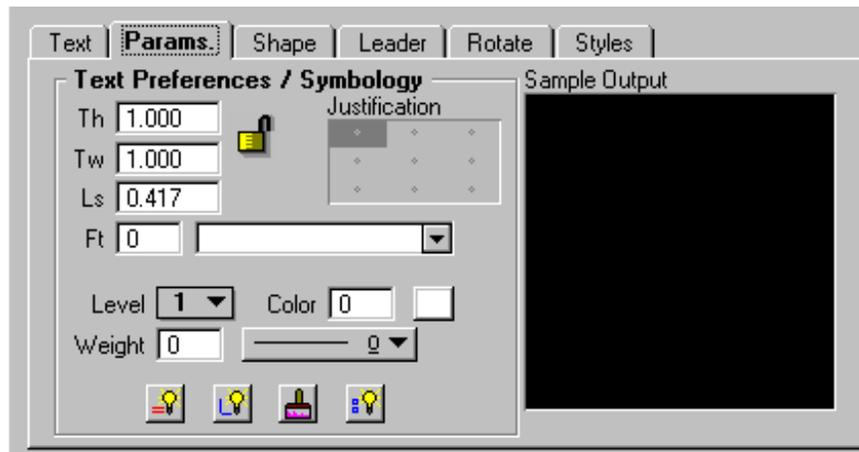
Allows the user to choose two visualized COGO points to represent a line.



Allows the user to select the PC, PT, and either the center of curve or a point on curve using visualized COGO points.

The **User Inserts** are inserts that a user may use on a regular basis. This list can be customized for a specific user's needs.

9.4.2 Parameters



The **Parameters** tab allows the user set up the text size and symbology for the label.



Will set the symbology to the current Microstation settings.



Allows the user to set the symbology by choosing a Microstation element.

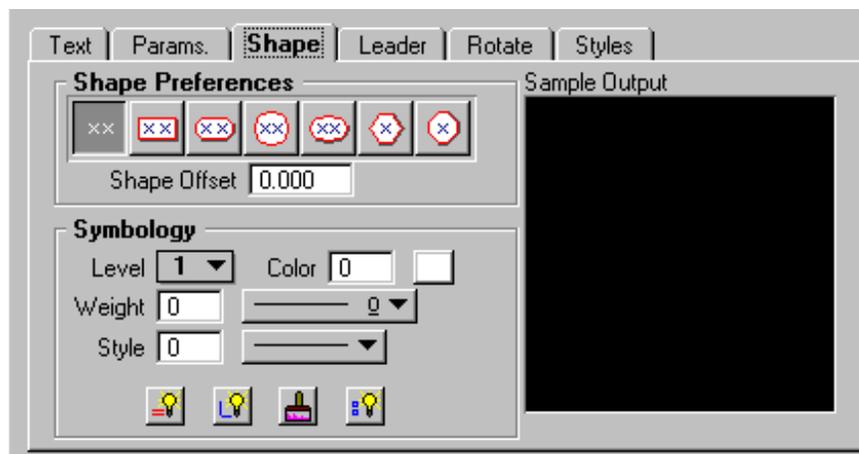


Will set the symbology using D&C Manager symbology



Will set the symbology for all elements in the label (text, delimiters, leader lines, etc.).

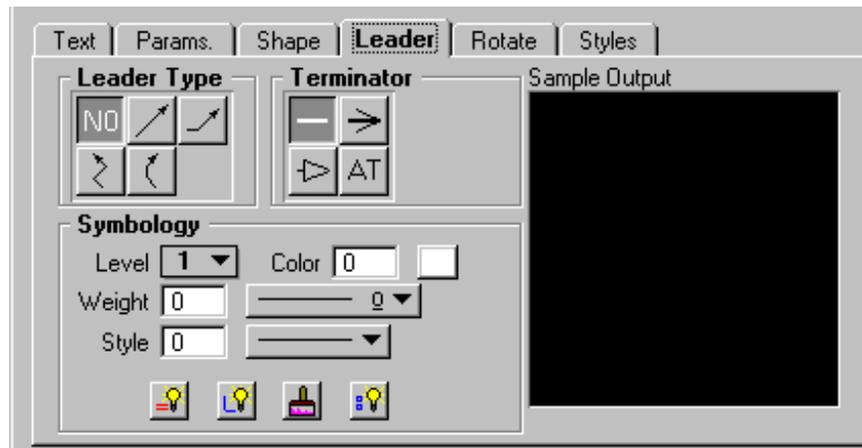
9.4.3 Shape



The **Shape** tab allows the user to place a shape around the label and set the symbology for the shape. The user can select the shape to be placed around the text. The **Shape Offset** is used to determine the distance between the shape and the text. The symbology icons are the same as those described under the Parameters tab.

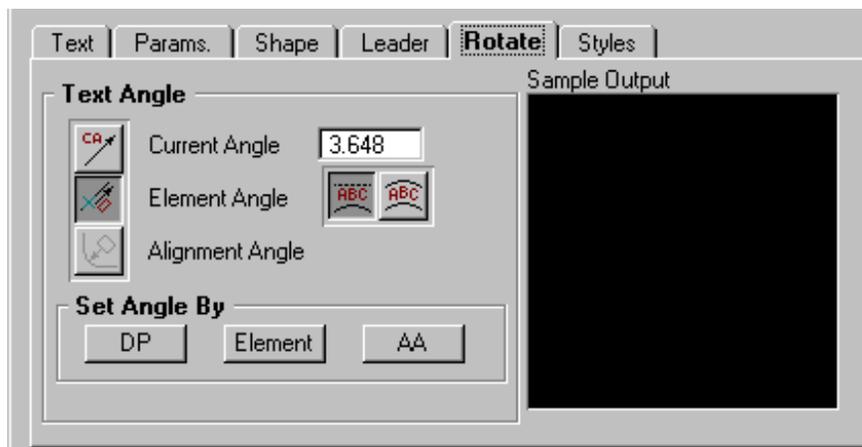
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9.4.4 Leader



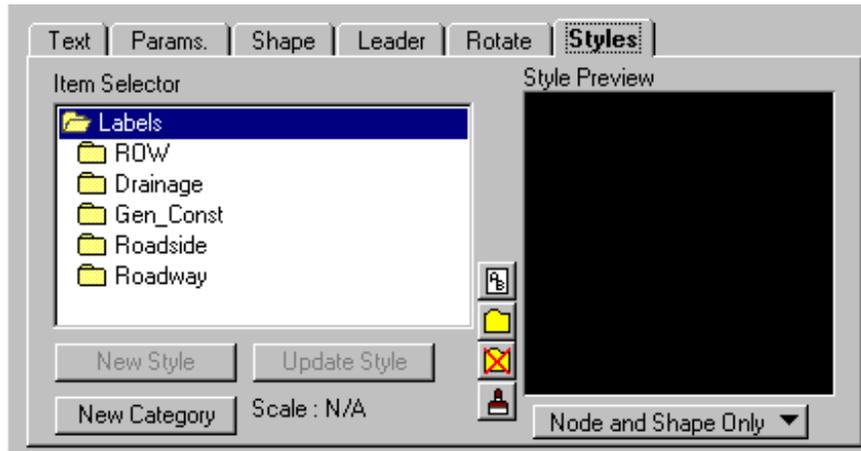
The **Leader** tab allows the user to attach a leader from the label to the point. Different leader types and terminators can be chosen. The active terminator can also be used. The symbology icons are the same as those described under the Parameters tab.

9.4.5 Rotate



The **Rotate** tab allows the label to be rotated. The rotation can be determined from the current angle, the angle of the element, or the alignment angle. Two data points or the active angle can also set the rotation.

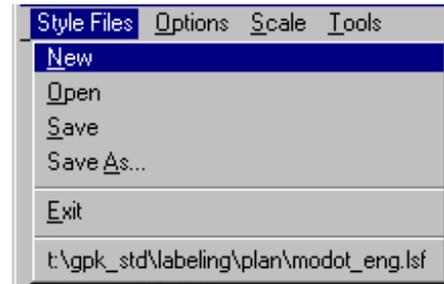
9.4.6 Styles



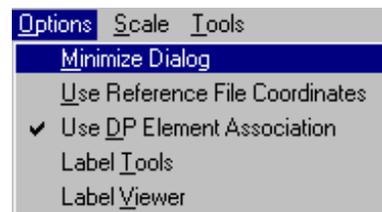
The **Styles** tab allows a user to choose label symbology from a library of pre-defined styles. When the user chooses the style, all of the symbologies, leaders, shapes, etc. is set up for the user.

9.5 Menus

The **Style Files** menu allows the user to open a new style library.



In the **Options** menu, **Minimize Dialog** will minimize the dialog box when **Place Label** is chosen.



The **Use Reference File Coordinates** option will use the coordinates from the attached reference file when placing a label in a plan sheet.

The **Use DP Element Association** option will allow the user to associate the label with an element in the active drawing. When the element changes, the label can be updated with the **Label Updater**.

Label Tools will bring up the toolbox shown below that will allow the user to modify GEOPAK labels.

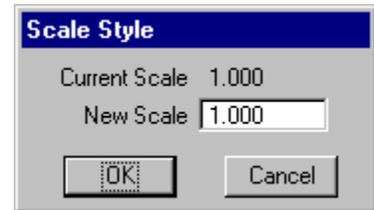


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Label Viewer brings up a dialog that allows a user to view and place a label. **Automatic Label** will update the computed inserts in a label as a new data point or element is chosen.



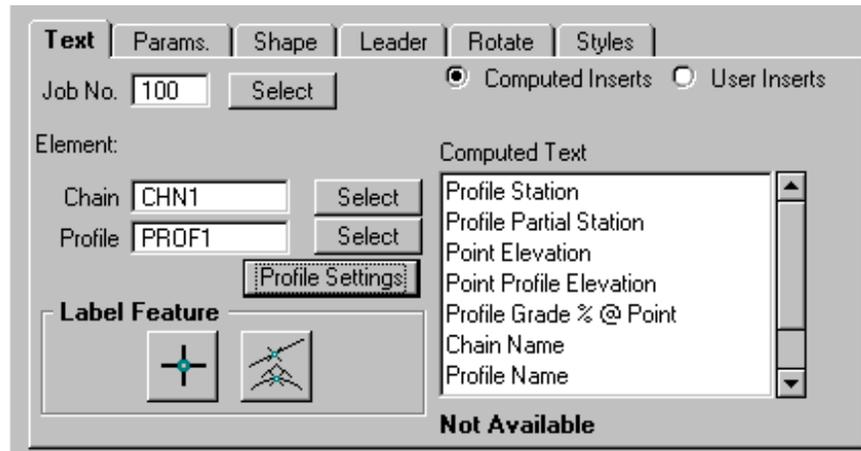
The **Label Scale** menu allows the user to choose a plan scale. All labels will be adjusted according to the plan scale. The user simply keys in a scale, and chooses a **Labeling Style**. The corresponding label will be placed at the correct size for the scale that was chosen.



The **Tools** menu allows the user to use a selection set, or update existing labels. **Selection Set Labeling** allows the user to work with multiple labels using a Microstation selection set. The **Label Updater** will allow the user to update a label's computed inserts, symbology, etc.

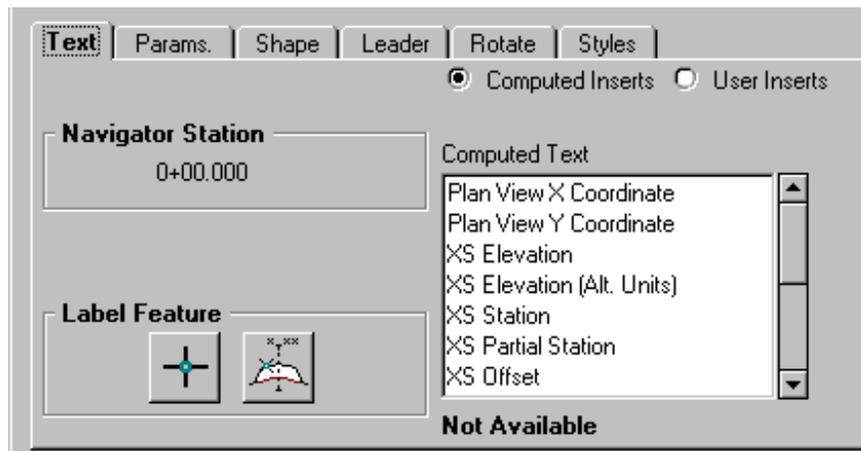


9.6 Profile Labeling



The **Profile Labeling** dialog differs from the **Plan View Labeling** dialog only on the text tab. The **Profile Labeling** dialog allows the user to select a chain and profile, and to set the profile settings. The **Computed** and **User Inserts** contain values and phrases related to profiles.

9.7 Cross-Section Labeling



The **Cross Section Labeling** dialog differs from the **Plan View Labeling** dialog only on the text tab. **Cross Section Labeling** works with the **Cross Section Navigator**. The current **Cross Section Navigator** station is shown on the **Text** tab. The **Computed** and **User Inserts** contain values and phrases related to cross-sections.