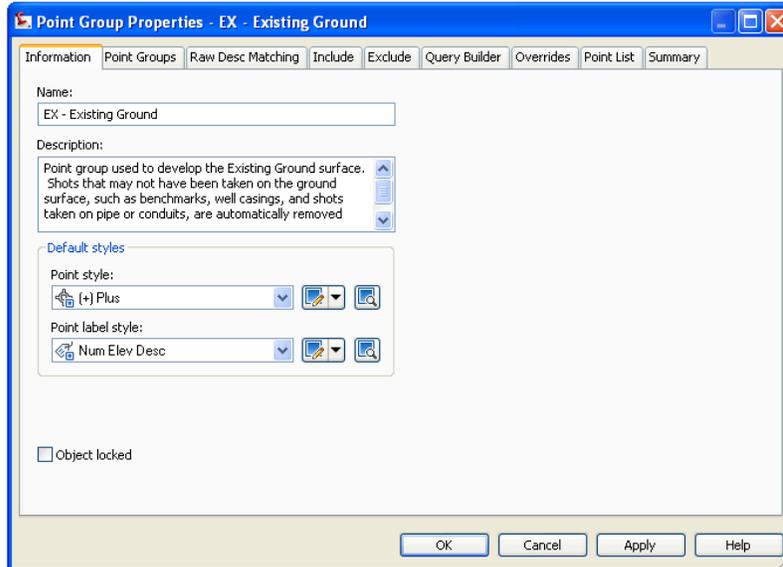


Point groups are controlled through the *Point Group Properties* window. Right click on the point group name and select *Properties...* to open the Point Group Properties window for that point group. Below is a summary of the most commonly used tabs in the Point Groups Properties window and some of the settings that can be controlled in those tabs.

- Information

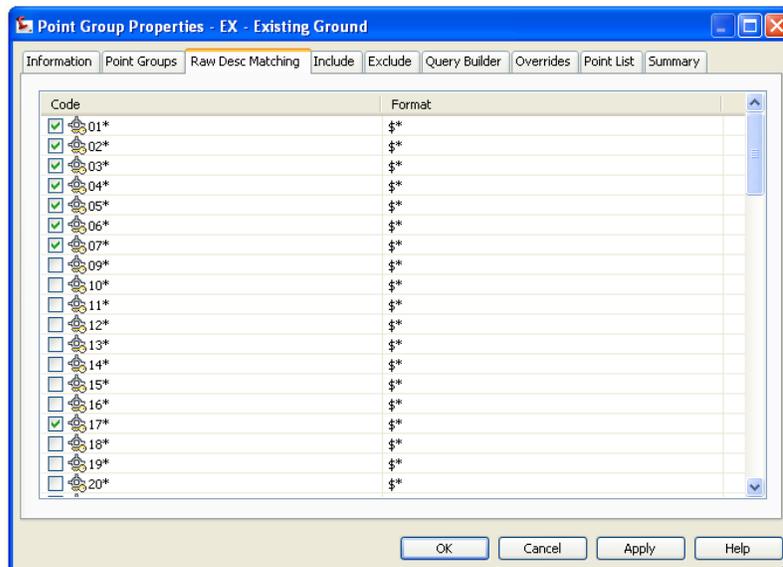
In this tab, you can provide a name and description for the point group and specify the point style and point label style that are used to control the display of the point in the drawing.



- Raw Desc Matching

In this tab, you can select from a list of survey codes to be included in the point group. These codes are established by the description keys that are provided with the Minnesota drawing template. These survey codes are described in more detail in Quick Reference Guide *100.0 Minnesota Standard Survey Point Codes*.

Description keys are used to control point labeling, styles, the layer the point is placed on, and a variety of other parameters. To see a listing of the description keys included with the Minnesota drawing template, go to the Settings tab in Toolspace and expand the lists for <drawing name> → Point → Description Key Sets

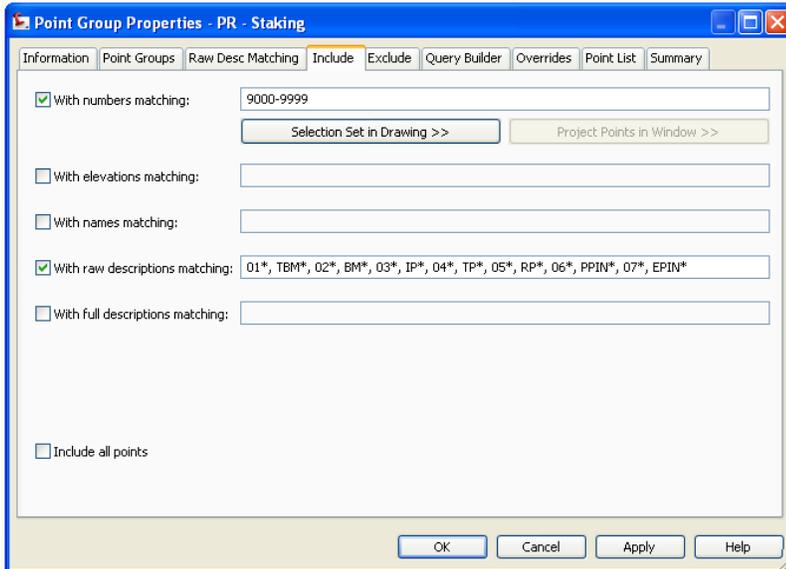


- Include

In this tab you control the points included in the point group based on characteristics such as point number, elevation, point name, raw description or full description.

Individual point numbers are separated by commas, and point number ranges are specified by providing the beginning and ending point number separated by a dash.

Asterisks can be used as wildcard characters when specifying raw description and full description matching. For example, a raw description matching code of 01* will select any text that starts with the string 01. This would include '01 TBM' and '01TBM' but not 'TBM 01'.



- Exclude

This tab is used to exclude specific points from the point group. This is useful when creating a point group that will be used to create a surface in order to exclude points that do not lie on the ground surface such as pipe flowlines, the top of slabs or well casings, or points with a zero elevation. An example of this is shown below, which is a point group used to develop an existing ground surface. The same rules for specifying point numbers and using wildcards apply on the *Exclude* tab as on the *Include* tab.

