CEE 4020 - Computer Applications in CEE

Points

September 29, 2010

Managing Point Data

Objective: (1) Import points from a text file (2) Create point groups (3) Edit and query points and (4) Using transparent commands with points to create geometry (5) Create point tables

Follow these steps:

- Import points from the attached PNEZD file - be sure to customize the text file while reading it in.

- Create distinct point groups as you import *points* and *more points*

- Edit point styles and point labels

- Draw a line using point numbers 295, 300 and 296.

- Draw new points using the *Create Points* menu as follows:

    - Draw an arc using points 181, 38 and 65

    - Create a new point using *Station/offset Object* - choose the arc, offset 20 and elevation 265

    - Create a new point using *Along line/Curve* along the arc you just drew at a distance of 25 from the point 65

    - Interpolate between points 24 and 61.

    - Create 6 points between points 24 and 173 at an offset of 20

    - Interpolate between points 182 and 215 at increments of 0.5' elevation and 5 unit distance and offset of -10

- Creating a point table: Use the Add Tables command in the Points menu.

- Create a point group containing only points with elevation less than 265'.