

Workflow 2: Drawing Chains and Profiles Stored in Coordinate Geometry Database

1. Once a chain, profile, or other coordinate geometry element has been stored in the coordinate geometry database, it will be drawn into MicroStation using the D & C Manager's Draw Plan and Profile tool. From the D & C Manager dialog box, select the type of element to be placed from the CFL/EFL subdirectory. Make sure the Design mode button, as shown below is selected.

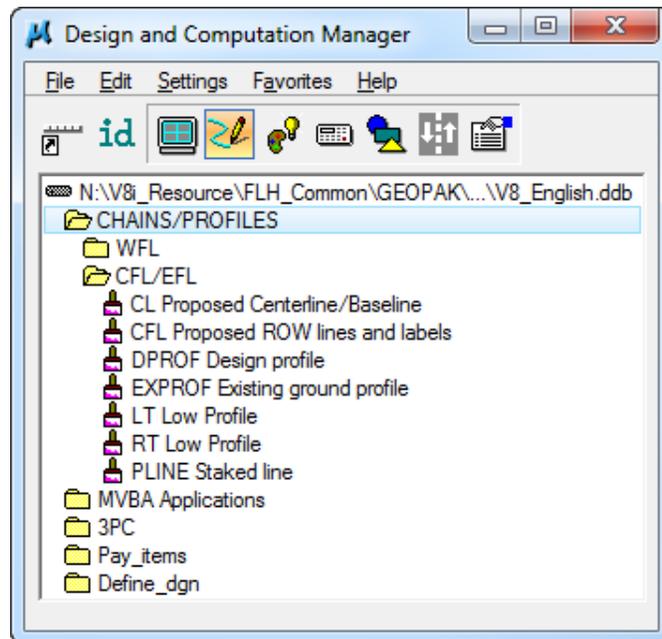


Figure 6.2-1: Select Database Item



The item has all of the attributes, as determined by CFLHD needed to draw the element into MicroStation. Each item has been created with the correct level, color, weight, and style, for use with FLH shape cluster criteria, quantities, etc. The task of creating all of this information has already been done by CFLHD. It is password protected and cannot be modified by the user.

2. Once the correct element has been selected, the secondary D&C Manager dialog will become active, select the Draw Plan and Profile button in the secondary D&C Manager dialog.

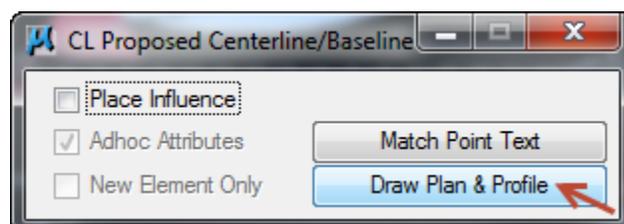


Figure 6.2-2: Draw Plan and Profile Dialog

3. Selecting the Draw Plan & Profile will activate the Open Job dialog box; user must select the .gpk file for the project. Select OK.

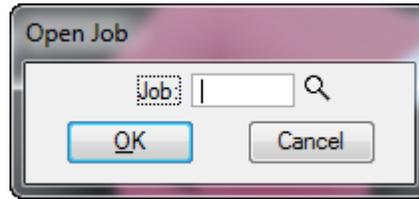


Figure 6.2-3: Open Job

4. Selecting OK will activate the dialog box shown below, allowing the user to select the desired COGO element, shown on the left side of the dialog box. The list of elements shown in this box will correspond to the category set by the operation button in the upper left corner of the dialog box. Categories include Chains, Stationing, Lines, Curves, Spirals, and Points.

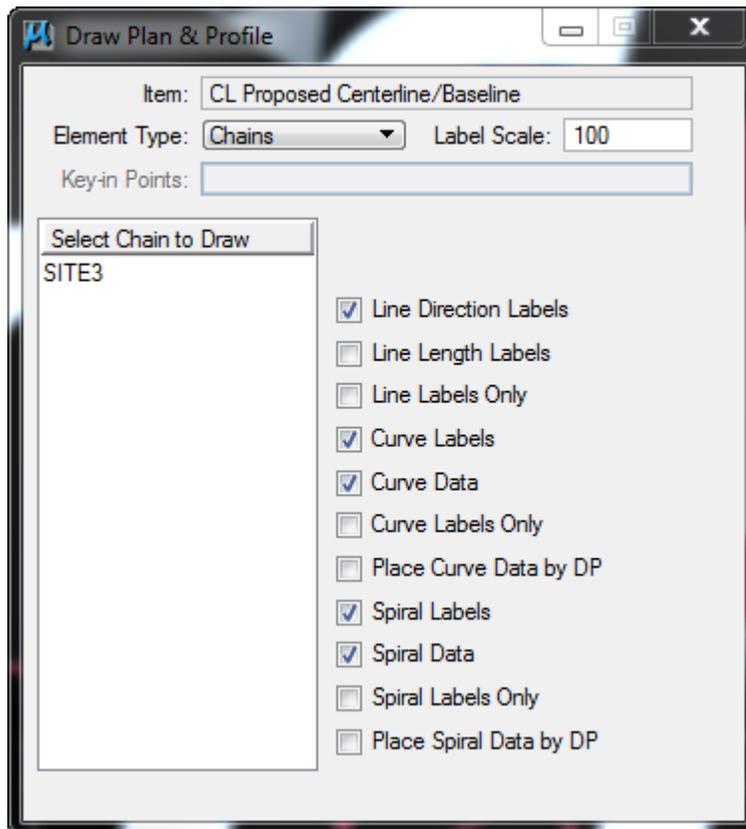


Figure 6.2-4: Select Chain

5. *The various types of annotation that can be placed with the active category of COGO element are listed along the right side of the dialog box as a series of check boxes. The default setup of these check boxes has been determined by CFLHD. The information to be placed, in this case, Line Direction Label, Curve Label, Curve Data, Spiral Label, Spiral Data, is what CFLHD expects to see on a typical project. As such, for stationing annotation to CFLHD, these toggles must not be changed. For preliminary work, this toggle may be turned on/off as needed.*
6. *The Label Scale field in the lower left corner of the dialog controls the size of text and graphic annotation for the selected coordinate geometry category. The value in this field corresponds to the plot scale on 11x17 size plan sheets where the elements will be used. For example, if D&C Manager is being used to draw a chain for a Metric unit project that will be used for 1000:1 scale plan sheets then the value in the Label Scale field should be 1000. Similarly, if D&C Manager is being used to draw a chain for an English unit project that is being used for 100' = 1" plan sheets then the value in the Label Scale field should be 100.*



For the Stationing category there are a limited number of values that are allowable in the Label Scale field. For Metric units stationing the allowable values for Label Scale are 50, 100, 200, 250, 300, 400, 500, 1000, and 2000. For English units stationing the allowable values for Label Scale are 10, 20, 40, 50, 100, and 200. If a value other than those listed is used for the Stationing category no stationing will be drawn.

7. *Select the coordinate geometry element to draw by single clicking on it in the list box along the left side of the dialog. The element will be immediately drawn into the active design file.*



When drawing a chain into MicroStation, select the desired chain only once. It will plot immediately upon selection. If the plotted chain is not visible, use MicroStation fit view to fit the chain into the MicroStation window.