5. Horizontal Alignment Displays

In this exercise, we display some graphics for our proposed centerline.
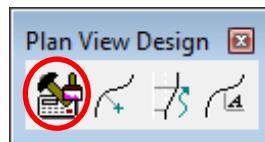
I.) Accessing Design and Computation Manager

1) **Open** the MicroStation file

**C:\Projects\Roane\SR95PoplarCr\ROSR95Alignments.dgn**

Access Project Manager.

2) **Select** the **Plan View Design** button from the **Project Manager** workflow dialog which opens the Plan View Design tool box.

Select the **Design and Computation Manager** icon to invoke the Design and Computation Manager shown below. It can also be accessed from the Main Task group when the Civil Workflows are set.
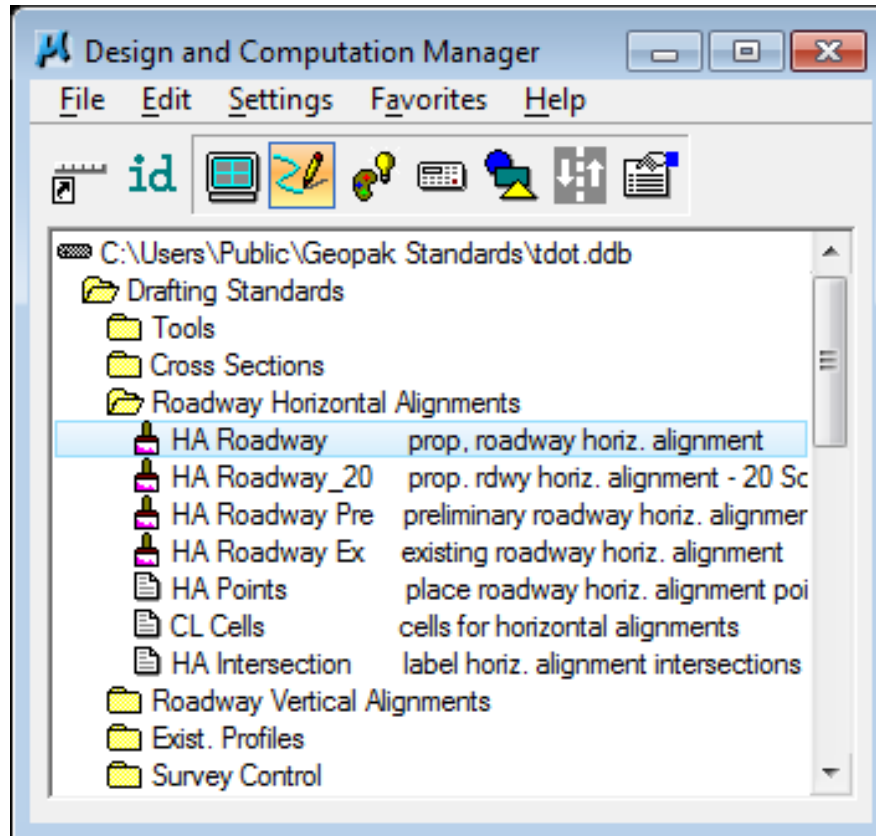
A secondary dialog will appear to be used in conjunction with the Design and Computation Manager dialog.
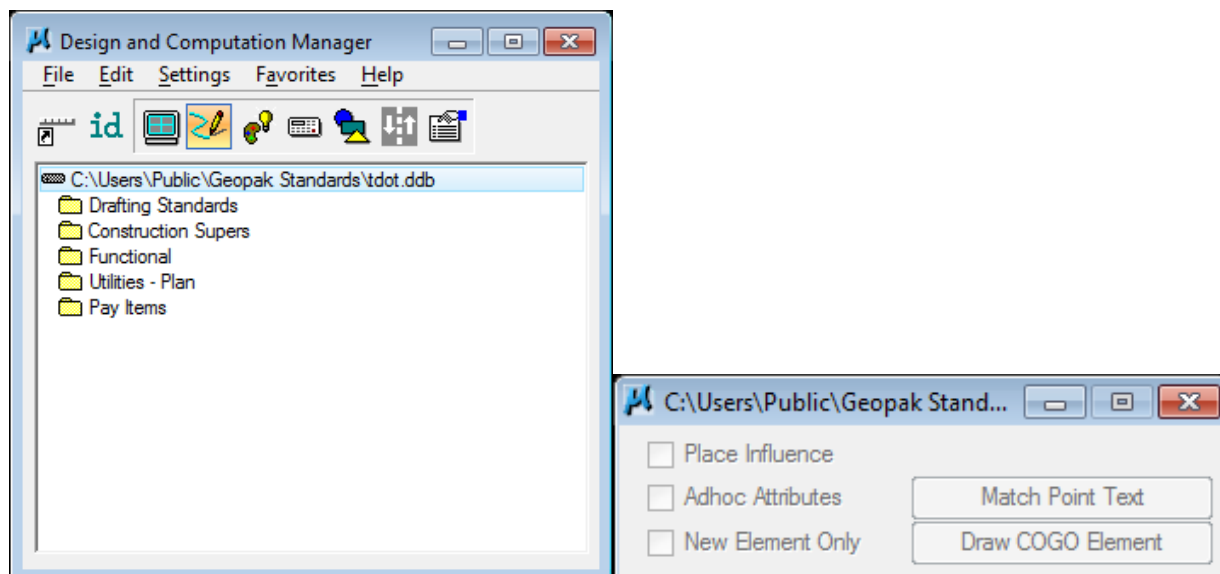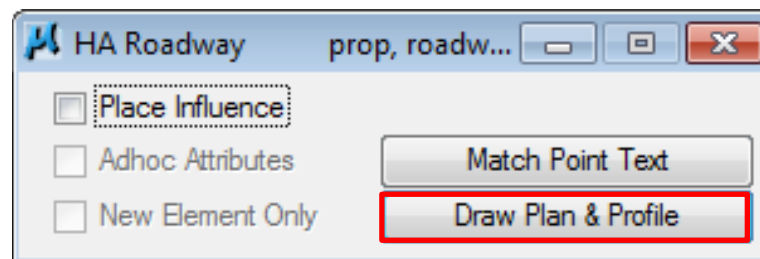
II.)   Drawing Horizontal Alignments

1)   In the Design and Computation Manager dialog, select the following item:

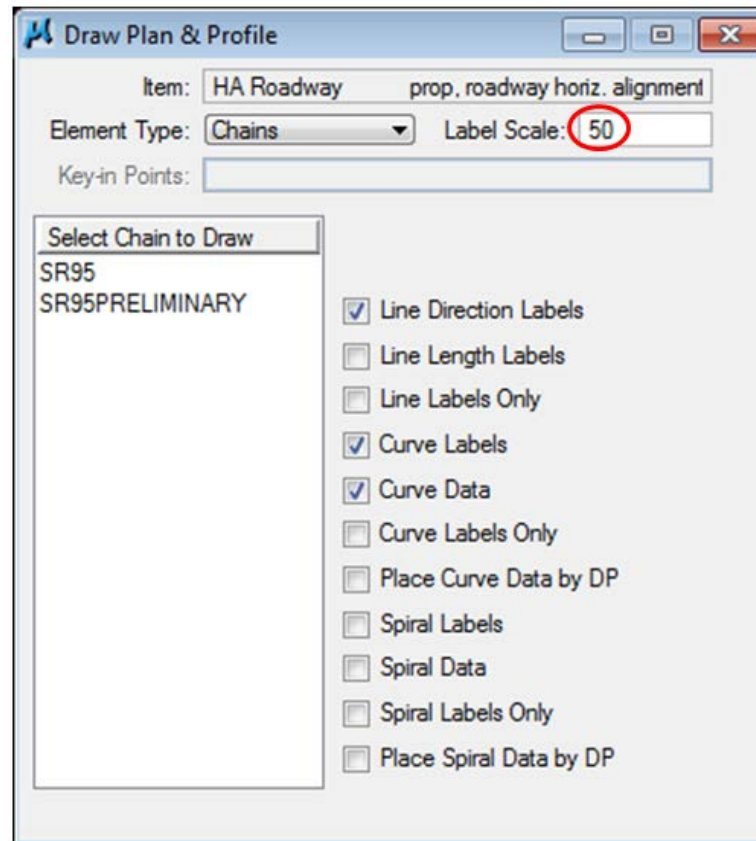**Drafting Standards → Roadway Horizontal Alignments → HA Roadway.**

2)   Next, **select** the **Draw Plan and Profile** button from the secondary dialog:
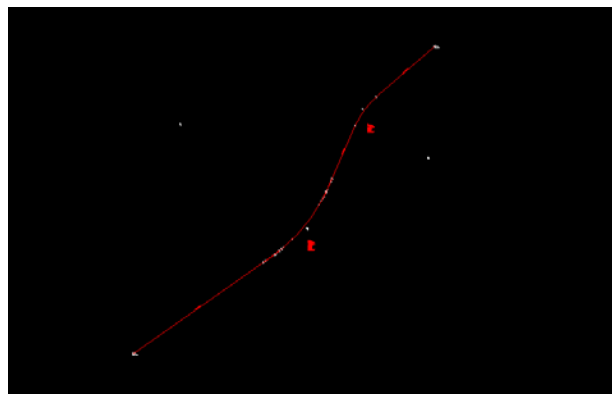
3) **Set** the Element Type to **Chains**. Chain **SR95** should be displayed in the list box as shown. Notice that the options that are to be drawn with the chain are already activated. Set the **Label Scale** to **50** if not set.


4) To draw the chain, **click** on **SR95** in the list box. Use the MicroStation **Fit View** → **Active** to see the chain. Make sure all of the chain is in view.

NOTE:
DO NOT double click on the chain name. Each click will display the chain and a double click will place two sets of graphics.

5) **Change** the Element Type to **Stationing** and make sure the dialog is filled out as shown below. **Annotate** the alignment **SR95** by clicking on the chain name in the list box.
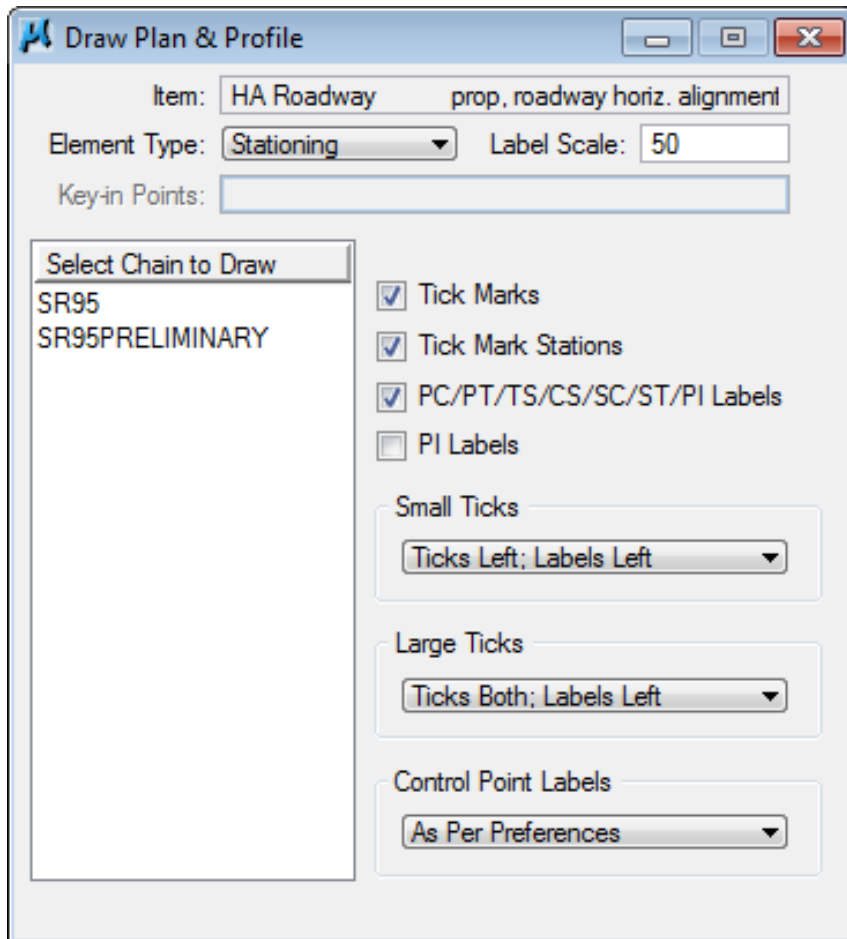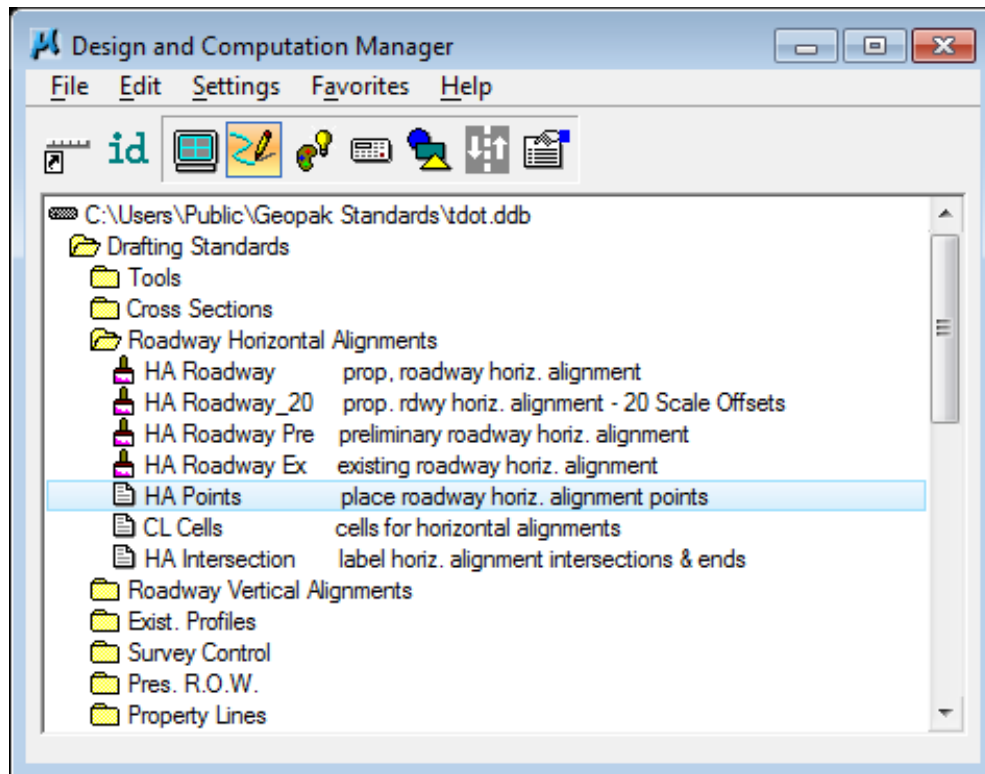

Close the GEOPAK Draw Plan and Profile dialog.

6) We have another application in D&C Manager that will place symbols for us at all of the alignment's key points. Before executing the following steps, make sure your entire alignment is shown in View 1.

7) **Double-click** on the following item in D&C Manager:

**Drafting Standards → Roadway Horizontal Alignments → HA Points**

NOTE:
Since this D&C Manager item is run by a separate program double clicking on the item prompts D&C to open the application and run it. These types of items can usually be recognized by their description which starts with a **verb** such as **place, draw, access, etc**.

8) The **Place Horizontal Alignment Points** dialog is displayed.

All GEOPAK jobs found within the current active folder are listed in the Job drop down box. If this tool was used previously for that job, the last chain processed is set as well as the last horizontal alignment type which was used. Scale defaults to active scale set in the MicroStation DGN file.

9) The Job should be set to **101** and the Chain to **SR95**. **Set** the Type to **Proposed Roadway Centerline** and if not already set, change the Scale to **50**.
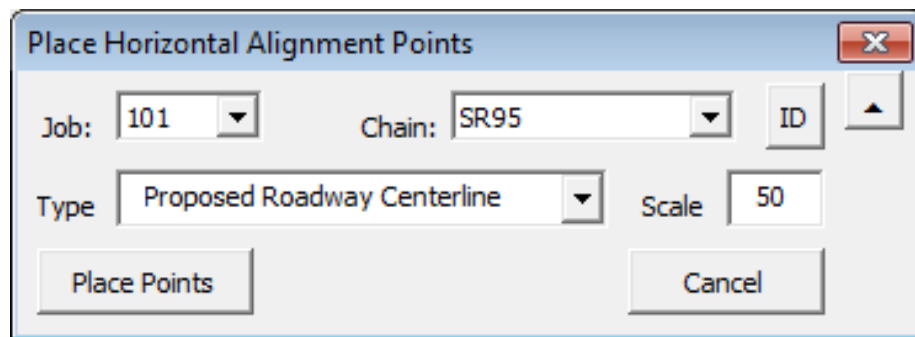
Click the **Place Points** button to place the horizontal alignment point symbols for chain SR95.

10) Review the results of the previous steps used to display and annotate the proposed centerline SR95.

You may wish to turn off the visualizations from COGO work done for the chain. They are on level **DESIGN - CENTERLINE - Proposed GPK Visualizations**.
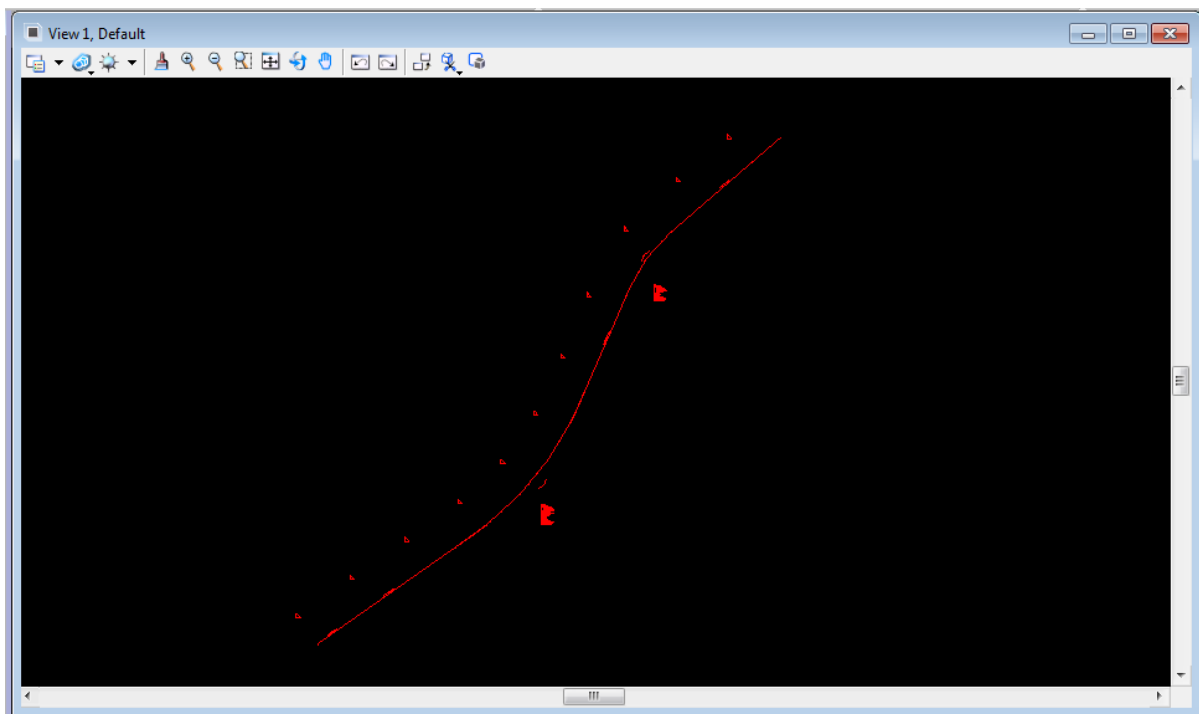
11) **Exit** the Design and Computation Manager dialogs.

12) **Dismiss** the Plan View Design tool box.