

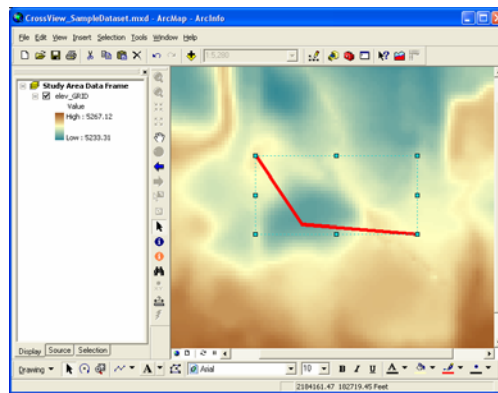
## Setting CrossView Cross Section Data Frame Scale

These procedures instruct you how to set the output CrossView Cross Section data frame units to a specified scale.

1. Identify your input data frame projection and units, the projection of your source data, and the desired output cross section units.

In the example below, the data frame projection is State Plane, NAD27, Feet. The elevation surface in an ESRI GRID in the same projection as the data frame and the elevation values are also in feet. The desired output units of the Cross Section are feet for both the x axis (distance) and y axis (elevation).

*ArcMap Data Frame*



It is important to understand how CrossView will determine the units of the x and y axis of the output Cross Section.

**X axis:** CrossView sets the units of the x axis (distance) to the units of the input data frame.

**Y axis:** CrossView sets the units of the y axis (elevation) to the same vertical units of the surface data.

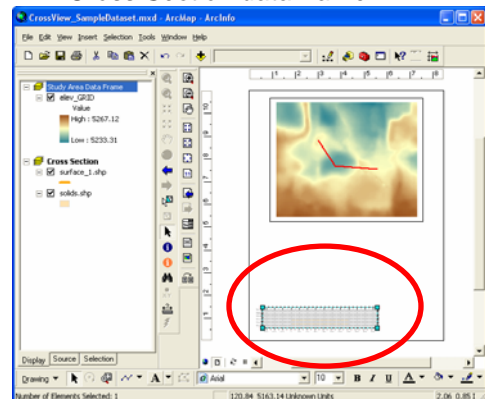
2. Use CrossView to create the output Cross Section data frame.

The output data frame will be named "Cross Section" and is placed in the lower left hand corner of the Layout View.

*CrossView dialog window*




*ArcMap layout with output Cross Section data frame*



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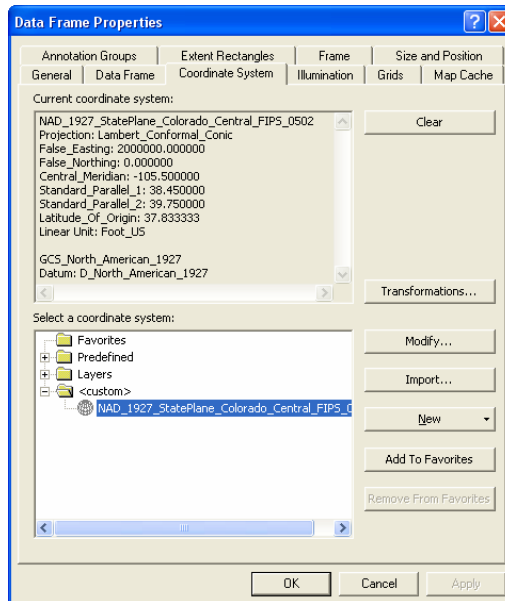
3. Update the extents of the output “Cross Section” data frame using the “Update Extents” button on the CrossView toolbar.

Select the “Update Extents” button on the CrossView toolbar . Set the desired extents in the “Update Extents” Dialog Window:

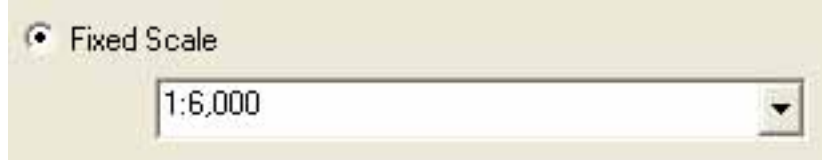


4. Manually define the projection of the output “Cross View” data frame and set the desired scale.

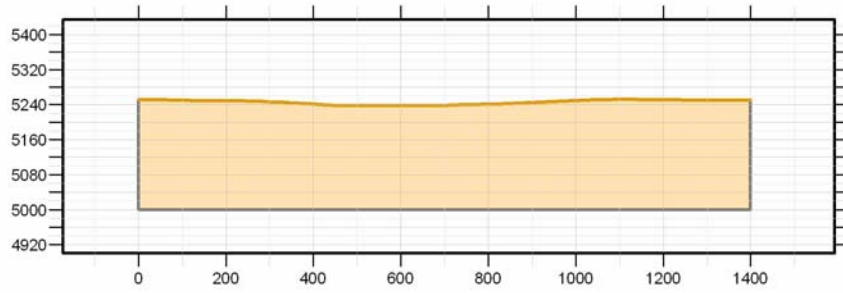
In the Table of Contents, right click on the “Cross Section” data frame and select “Properties.” The Data Frame Properties window will display. Select the “Coordinate System” tab and set the projection to the same projection as the input data frame.



With the projection set, click on the “Data Frame” tab of the Data Frame Properties dialog window. Select the “Fixed Scale” radio button and enter the desired scale:



5. Resize the "Cross Section" Data Frame window in your layout as needed.  
Before resizing the data frame to 1:6,000:



After resizing the data frame to 1:6,000:

