

Civil CAD CONSULTANT

Express-TIP

On the Side

Q: Where are Feature Filters stored? Can I use them with more than one DTM?

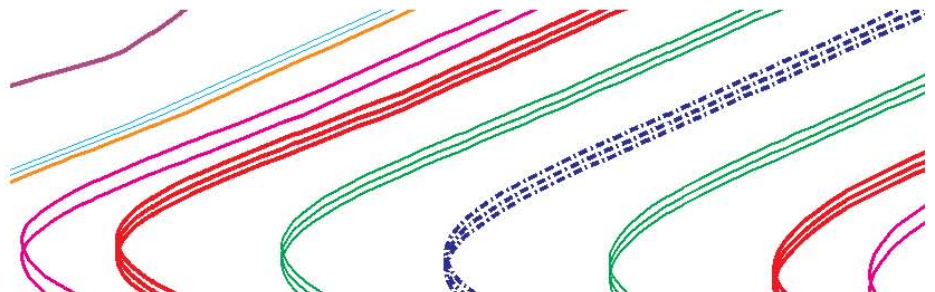
A: Feature Filters are stored in the XIN and available for use with any DTM. Be careful! You do not want to leave the **Feature Filter Lock** on. It prevents any features that don't pass through the filter from showing up in any dialog box listing.

Feature Filters

One set of features only, please

Feature Filters provide a method of segregating features using any number of criteria. This can often come in handy when you're working with surfaces and don't want to scroll through a list of hundreds or even thousands of features to find the ones you want. In this example, we'll create a filter that will allow us to work with only triangulated data.

Roadway Designer displays all the features from your template (that are not NULL or set to **Do Not Construct**) when you toggle the option on in the **Create Surface** command. Often, however, you need to see just the 'top' set for display or for editing. It can become quite a pain to go back and graphically delete the



unnecessary ones, even using **Update 3D/Plan Display**.

However, using a simple **Feature Filter**, only displaying the 'top' set of features becomes a breeze.

1 Make one of your design surfaces active so you'll be able to see results when you build the filter.

2 Choose **Surface > Feature > Feature Selection Filter**.

3 If there is a **Filter Name** in the list, toggle it to **<Unnamed>**.

4 Set the **Start With** option to **None**.

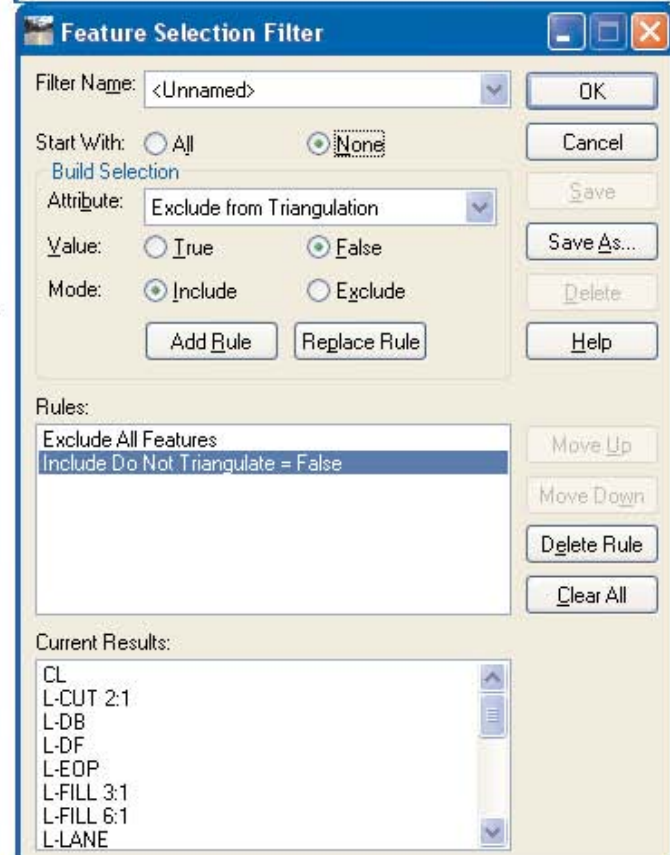
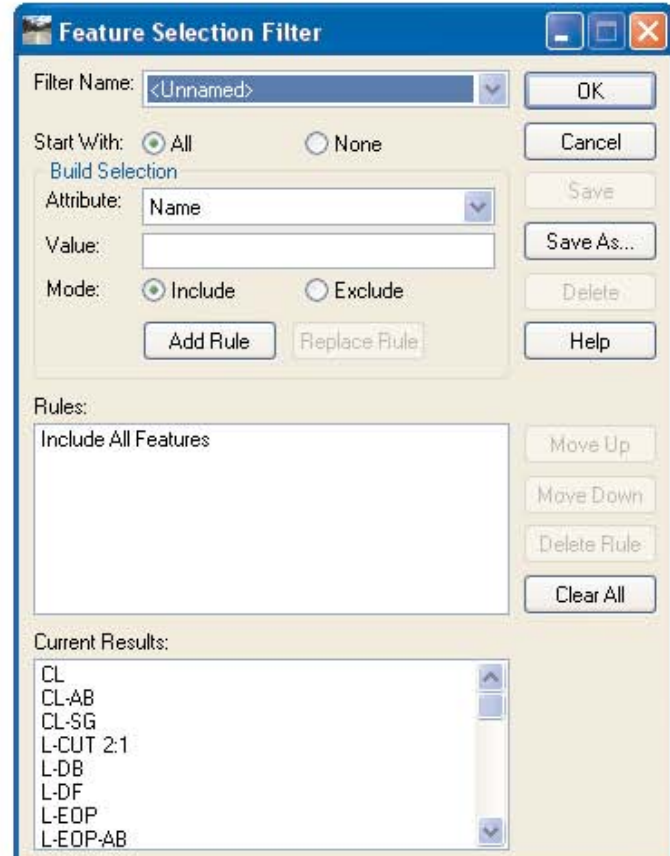
5 Under **Build Selection**,

- set the **Attribute** to **Exclude from Triangulation**
- set the **Value** to **False**
- set the **Mode** to **Include**
- choose **Add Rule**

It sounds like a double-negative, but what you are doing is including only those features that are NOT set to **Exclude from Triangulation**. In other words, only the triangulated features will pass through the filter. Note when you choose Add Rule the Current Results area no longer shows the AB (Asphalt Base) and SG (Subgrade) features.

6 Choose **Save As** and name the feature filter.


7 Choose **OK**.

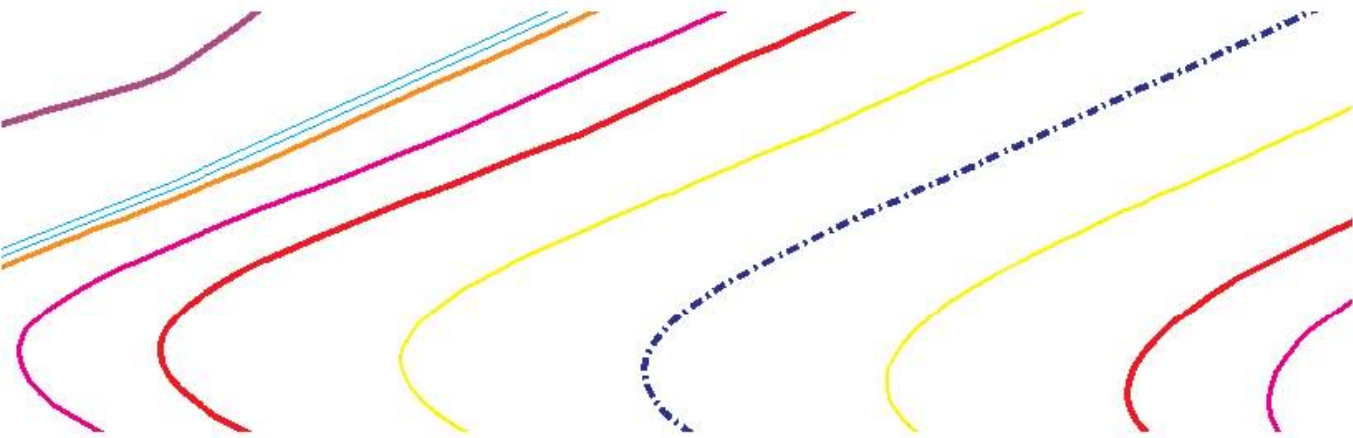


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Toggle on **Feature Filter Lock** and make certain your new filter is active.



When you use the **Create Surface** command, you can turn on **Display Features in Plan View** and the only features displayed will be the ones that are triangulated — typically the ‘top’ surface. This is also very useful if you’re editing the features, as it prevents the features that don’t pass through the filter from being ‘selected’ with any of the **Surface Edit** tools. 



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