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## Chapter 6 Line Styles

### Overview

MicroStation comes with 8 standard Line Styles, which is usually enough for only the most basic MicroStation drawing. Custom Line Styles are MicroStation's way of creating other Line Style for specific purposes. Line Styles for utilities that have text imbedded in the line, fence Line Style with X's along it are examples of Line Styles that can be created. Custom Line Styles, unlike the fonts discussed in chapter 5, are still contained in resource files with the extension **.rsc**. MicroStation J font resource files do not need to be converted to MicroStation V8, they will work exactly the same in MicroStation V8 as they did in MicroStation J. The only change will be how we access custom line styles for use and viewing prior to placing. This chapter contains information about these resource files including:

- Names
- Locations
- Descriptions
- Workflow for attaching resource file
- Workflow for creating basic custom Line Styles

### Line Styles

There are many custom Line Styles in use at CFLHD. There are multiple standard Line Style resource files. They are automatically read by MicroStation and will be shown as available Line Styles, provided your machine is properly configured. These files should be attached when entering MicroStation through a configuration variable and the use of these should be seamless. For our consultants, follow the workflow at the end of this chapter for information about downloading and attaching Line Style resource files.

The custom Line Style resource files are located on the CFLHD network at **N:\Standards\MicroStation\v8\Metric or English** **line\_styles**, or on the CFLHD website at:

[http://www.cflhd.gov/cadd/standard\\_files/line\\_styles\\_v8\\_cfl.zip](http://www.cflhd.gov/cadd/standard_files/line_styles_v8_cfl.zip)

Selecting custom Line Styles in MicroStation V8 is a simple process as each Line Style found in the attached **.rsc** file will automatically show up in the Line Styles dropdown menu, as shown below.

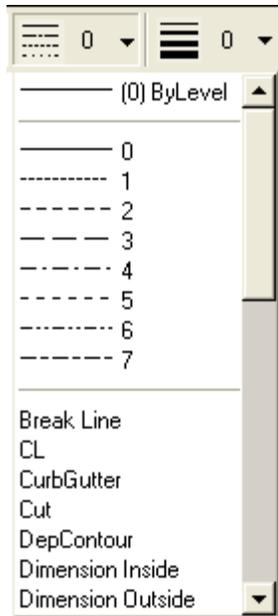


Figure 6-1: Select Custom Line Style

Each of the Line Styles available may be selected by using the scroll bar to find and select the desired Line Style.

As shown above, there is also a selection for ByLevel. This allows a Line Style to be attached to a particular level. Setting the level as the active level will automatically select the Line Style as set in the level library. See chapter 9, Levels and Symbology, for more information on ByLevel attributes.

To view a custom Line Style before placing, select **Element>Line Styles>Custom**, as shown below.

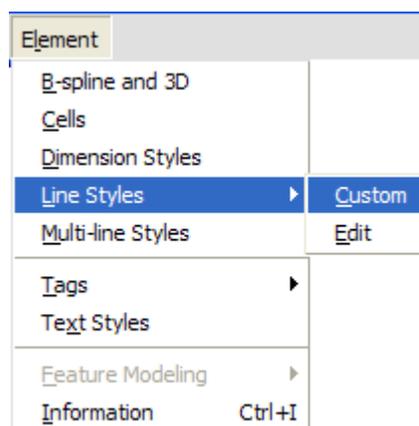


Figure 6-2: Element Menu

The dialog box for custom Line Styles, shown below, looks identical to the dialog in MicroStation J, with the ability to select line styles and set line style scales.

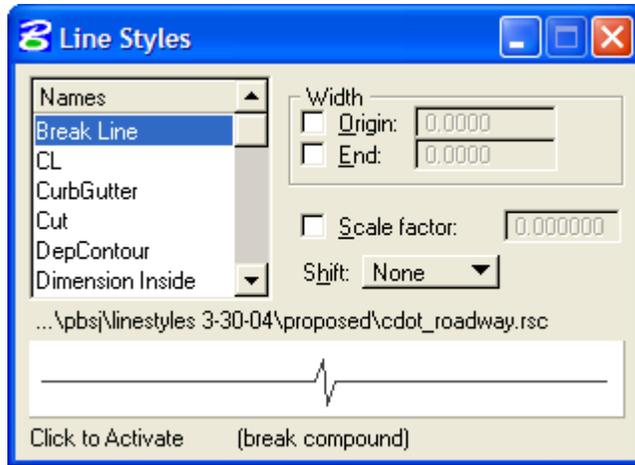
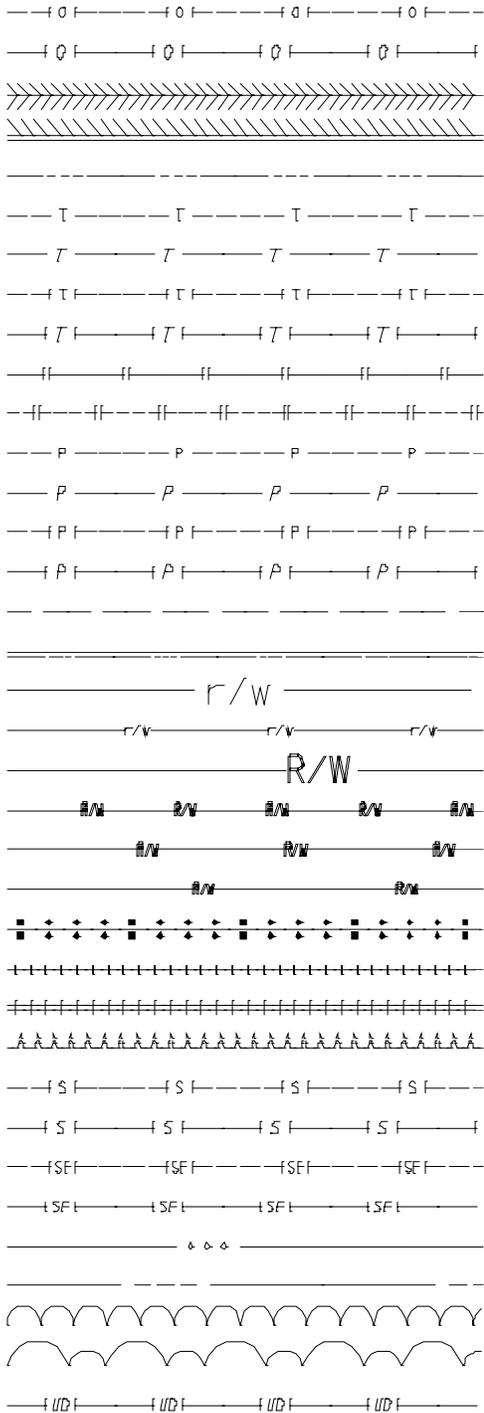


Figure 6-3: Custom Line Styles



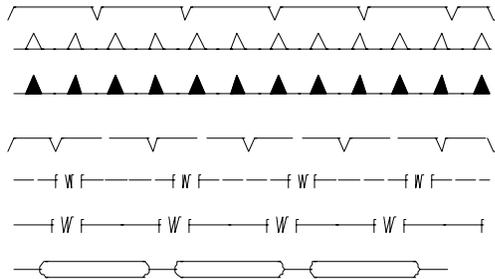
If the custom Line Styles are not visible from the primary tool palette, contact CADD support to properly configure MicroStation to read the Line Style resource file, or follow the workflow at the end of this chapter.



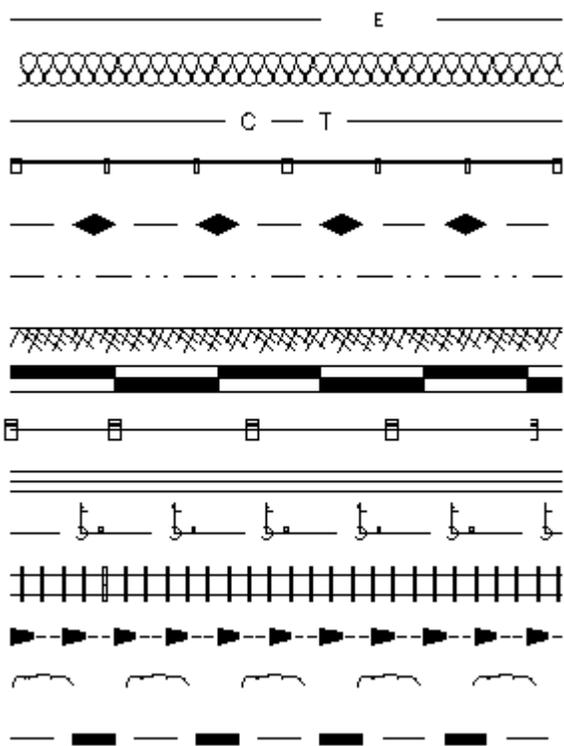


Line Style
oilue
oilup
paved_ditch
paved_ditch2
perdra
phonepe
phonepp
phoneue
phoneup
pline
plineb
powerpe
powerpp
powerue
powerup
rdedge
river
row_exist_eng
row_exist_met
row_prop_eng
row_prop_met20
row_prop_met30
row_prop_met50
rpm
rr1
rr2
scarp
sewere
sewerp
silt_ex
silt_pr
steam1
steam2
treeln1
treeln2
underdrain_pr

Figure 6-5: Line Style Diagram



Line Style
wall
wall3e
wall3p
walle
watere
waterp
wattle



Line Style	Resource file
E	Bridge-ls.rsc
Batten	Bridge-ls.rsc
Cable / Tele	Bridge-ls.rsc
Curtain	Bridge-ls.rsc
Diamond	Bridge-ls.rsc
Gas Line	Bridge-ls.rsc
Ground Line	Bridge-ls.rsc
Half Dash	Bridge-ls.rsc
Leader Line	Bridge-ls.rsc
Offset Line	Bridge-ls.rsc
Origin Line	Bridge-ls.rsc
Rail Road	Bridge-ls.rsc
Tapered Dash	Bridge-ls.rsc
Tree Line	Bridge-ls.rsc
Wide Dash	Bridge-ls.rsc

Figure 6-6: Bridge Line Style Diagram



For information on when and where to use specific line styles, see chapter 9, Levels and Symbology.



## Workflow 1: Resource file setup

1. *Save the line style resource file from the CFLHD web site. The link below should begin the download immediately. You will need to select "Save this file to disk" from the download prompt, then click OK. If clicking on the link below does not start the download process, type the path into your web browser as it appears below.*

[http://www.cflhd.gov/cadd/standard\\_files/line\\_styles\\_v8\\_cfl.zip](http://www.cflhd.gov/cadd/standard_files/line_styles_v8_cfl.zip)

2. *As this file is specific to CFLHD projects the user may want to save it to a project directory, rather than the MicroStation directory. (Note where these files have been placed as they will need to be accessed in the next steps)*
3. *In MicroStation select Workspace>Configuration.*

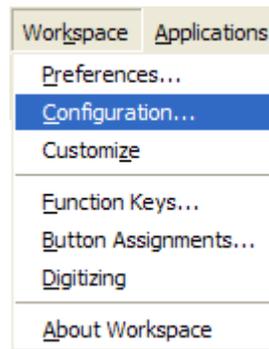


Figure 6-7: Workspace Configuration Menu

4. *From the workspace configuration dialog box, select Symbology from the list on the left.*

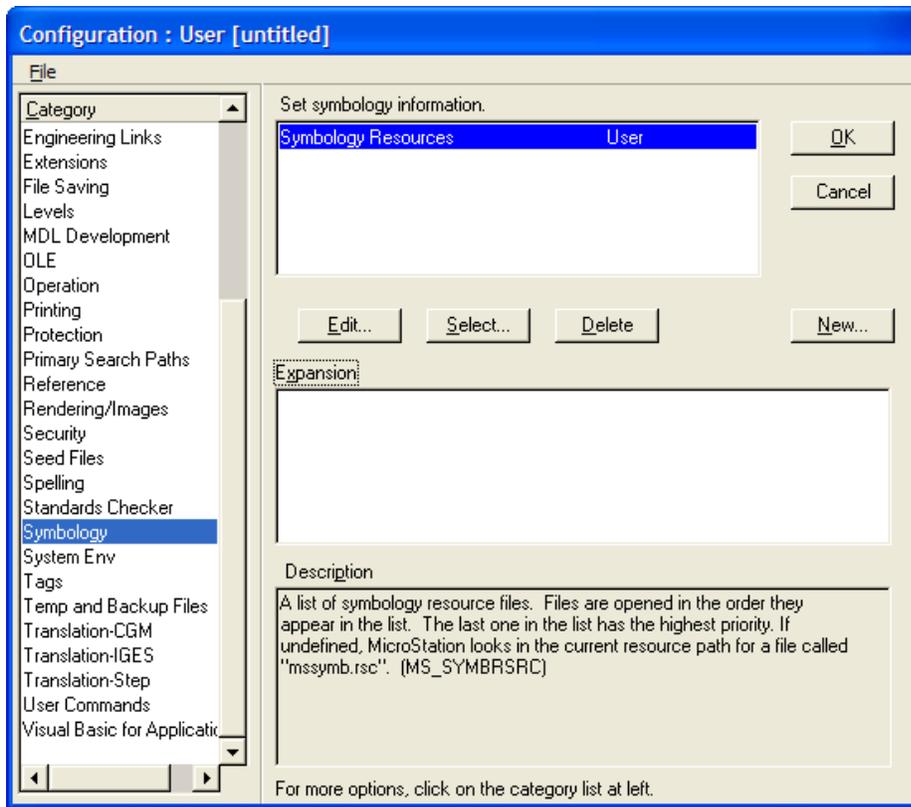


Figure 6-8: Configuration Symbology

5. Click on the Select button. This will allow the user to select the CFLHD line style resource files downloaded above (step 4).

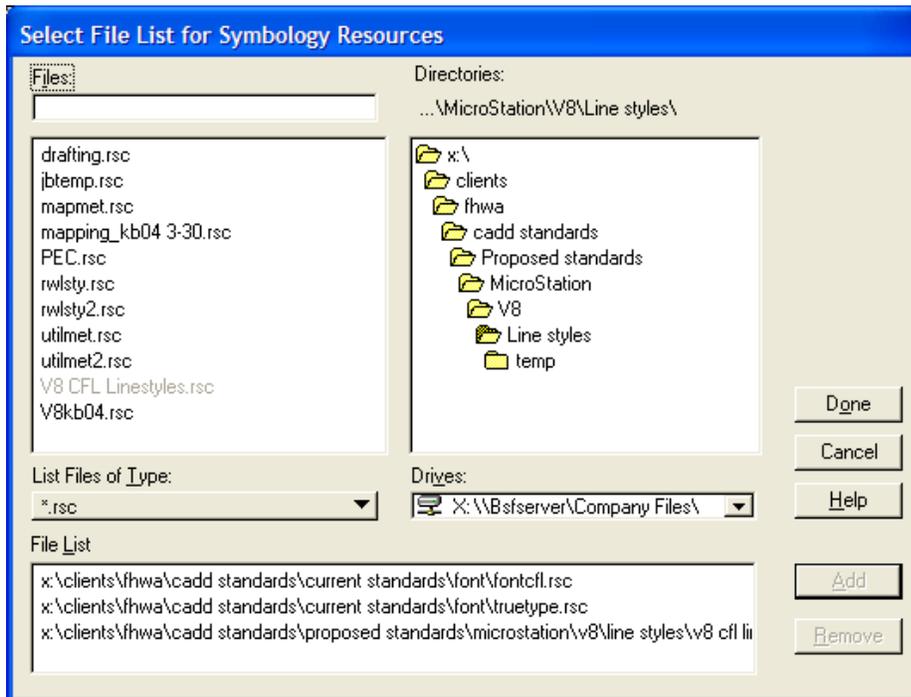


Figure 6-9: Symbology Resources



6. Pick the path to the directory where the .rsc files are stored from the upper right directory box. Highlight the appropriate file(s) from the upper left box, then click the Add button to add the desired file to the file list. Repeat this procedure for each file to be added.
7. Click the Done button.
8. The files will now be shown in the Expansion window of the user configuration box.

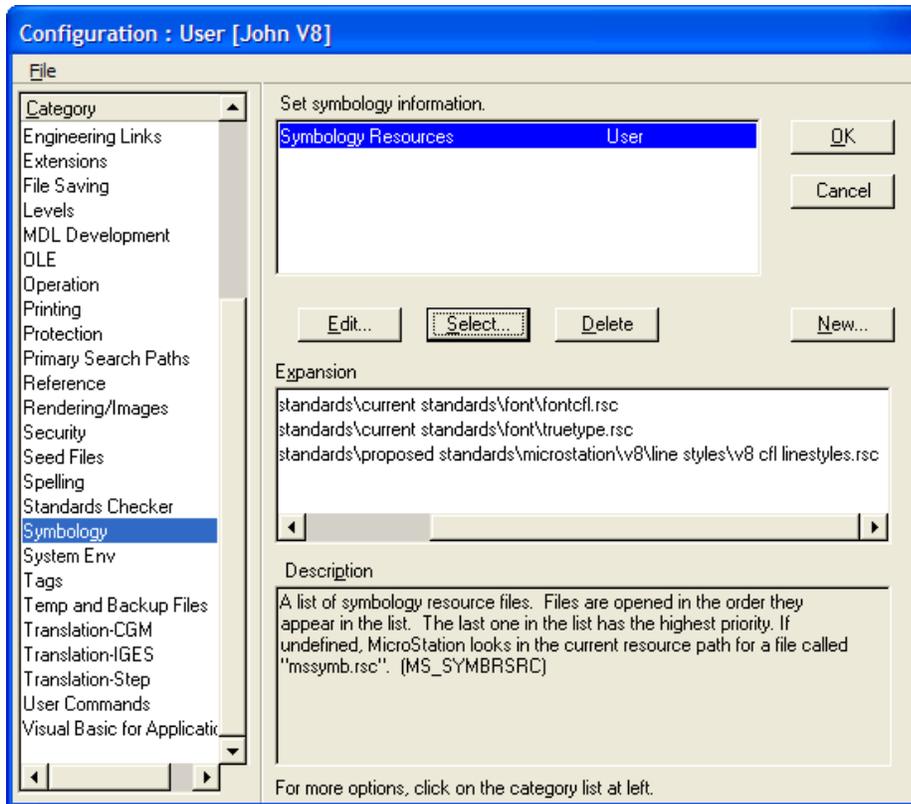


Figure 6-11: User Configuration Symbology

9. Click the OK button. The user will see a MicroStation alert dialog box asking if changes to the configuration file should be saved, Answer by selecting the Yes button. The correct custom line styles will now be available.



If using IPlot as the plotting solution, the user will also need to copy the custom line style resource files to the IPlot server in order for custom line styles to show up correctly on plots.