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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**. 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 will be attached when entering MicroStation through a project configuration file and the use of these will be seamless.

The CFLHD custom Line Style resource files can be found on the CFLHD network at:

N:\Standards\V8_Resource\X_30\Standards\Resources

For consultants, CFLHD line style resources files are available through the **V8_Resource.zip** download.

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.

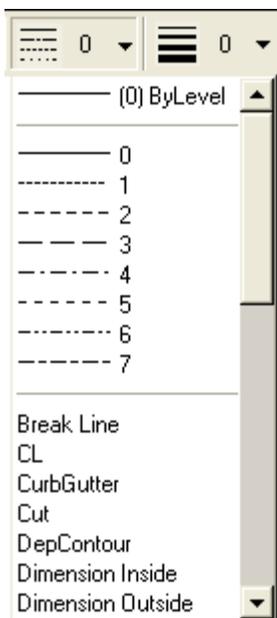


Figure 6-1: Select Custom Line Style

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 it, select **Element>Line Styles>Custom**, as shown below.

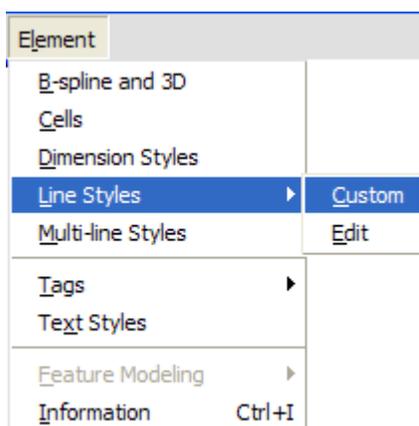


Figure 6-2: Element Menu

With the dialog box for custom Line Styles, shown below, you have the ability to select Line Styles and set Line Style scales.

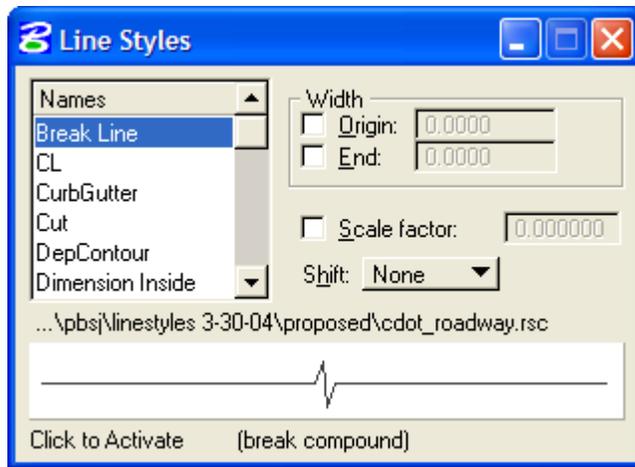


Figure 6-3: Custom Line Styles



For CFLHD employees, custom Line Styles are automatically attached while opening a design file using the Project Configuration (*.pcf). Contact CADD support to get properly setup if the correct Line Styles are not displaying.



Line Style Diagrams

See figures below for view of each Line Style in use at CFLHD.

Line Style	
	Tree_Line_2
	Tree_Line
	Township/Range
	Silt_Fence
	Section
	Scarp
	Rock_Lined_Ditch
	Railroad_Tracks_2
	Railroad_Tracks
	Property_Line
	Permanent_Easement_Right
	Permanent_Easement_Left
	Permanent_Easement_Inline
	P_Water_Line
	P_Wall
	P_Underground_Telephone
	P_Underground_Power_and_Telephone
	P_Underground_Power
	P_Underground_Oil
	P_Underground_Gas
	P_Underdrain
	P_Two_Posted_Sign
	P_Storm_Drain
	P_Sanitary_Sewer
	P_Road
	P_Right_of_Way_Right

Figure 6-4: Line Style Diagram



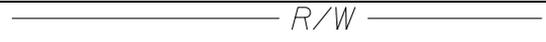
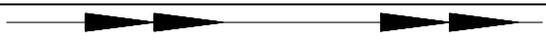
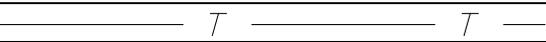
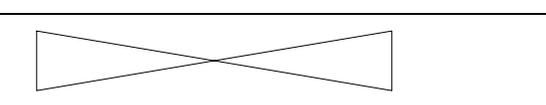
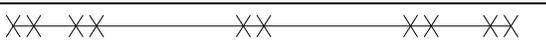
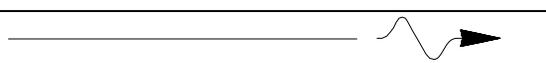
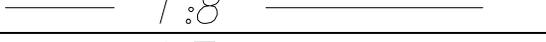
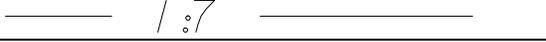
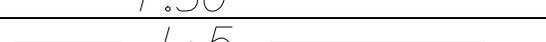
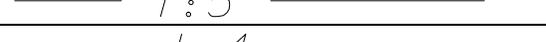
Line Style	
	P_Right-of-Way_Left
	P_Right_of_Way_Inline
	P_PavedDitch
	P_Overhead_Telephone
	P_Overhead_Power_and_Telephone
	P_Overhead_Power
	P_Guardwall
	P_Guardrail
	P_Gate
	P_Fence
	P_Culvert
	P_Concrete_Barrier
	Metric_Custom_Slope
	Metric 4:1
	Metric 2:1
	Metric 1:9
	Metric 1:8
	Metric 1:7
	Metric 1:6
	Metric 1:50
	Metric 1:5
	Metric 1:4
	Metric 1:3
	Metric 1:20
	Metric 1:2.5

Figure 6-5: Line Style Diagram



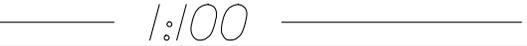
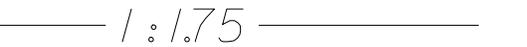
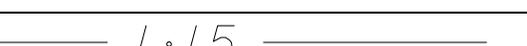
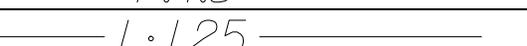
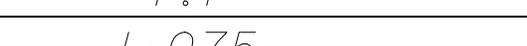
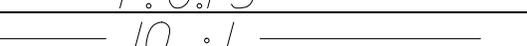
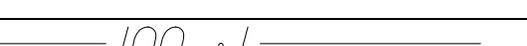
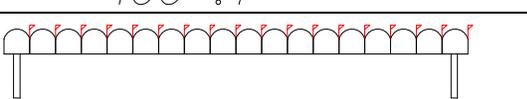
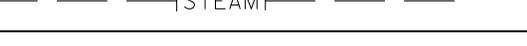
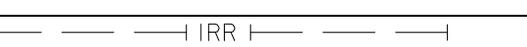
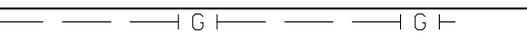
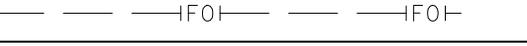
Line Style	
	Metric 1:2
	Metric 1:100
	Metric 1:10
	Metric 1:1.75
	Metric 1:1.5
	Metric 1:1.25
	Metric 1:1
	Metric 1:0.75
	Metric 10:1
	Metric 100:1
	Mailboxes
	Forced_Slope_Tie
	Edge_of_Water
	E_Water_Line
	E_Wall
	E_Underground_Telephone
	E_Underground_Steam
	E_Underground_Power
	E_Underground_Oil
	E_Underground_Irrigation
	E_Underground_Gas
	E_Underground_Force_Main
	E_Underground_Fiber_Optic
	E_Underground_CATV

Figure 6-6: Line Style Diagram



Line Style	
	E_Underdrain
	E_Two_Posted_Sign
	E_Storm_Drain
	E_Sanitary_Sewer
	E_Road
	E_Right-of-Way_Right
	E_Right-of-Way_Left
	E_Right-of-Way_Inline
	E_Permanent_Easement_Right
	E_Permanent_Easement_Left
	E_Permanent_Easement_Inline
	E_Overhead_Telephone
	E_Overhead_Power_and_Telephone
	E_Overhead_Power
	E_Overhead_Fiber_Optic
	E_Overhead_CATV
	E_Maintenance_Limits
	E_Irrigation_Ditch
	E_Intermittent_Drainage
	E_Guardwall
	E_Guardrail
	E_Ground
	E_Gate
	E_Fence
	E_Dam
	E_Culvert
	E_Concrete Barrier

Figure 6-7: Line Style Diagram



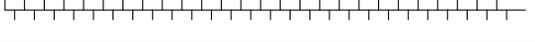
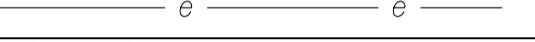
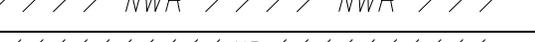
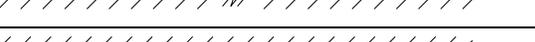
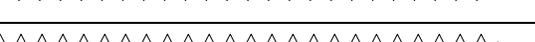
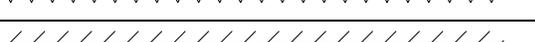
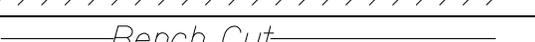
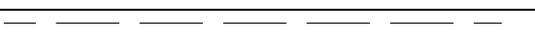
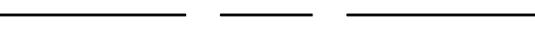
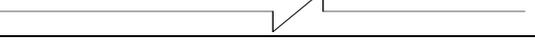
Line Style	
	Dike
	Depression
	Cut_Line
	Construction_Easement_Right
	Construction_Easement_Left
	Construction_Easement
	CFL_Temporary_Easement
	CFL_Existing_Easement
	Brush_Line
	Boundary_NWR
	Boundary_National_Park
	Boundary_Forest
	Boundary_BLM
	Boundary_BIA
	Berm
	Bench_Cut
	1/4 Section Line
	1/16 Section Line
	Wattle
	P_Road
	E_Road
	Ditch
	CL1
	Break2
	Break1

Figure 6-8: Line Style Diagram



Workflow 1: Resource file setup

To access this workflow, follow this link:

[http://www.cflhd.gov/cadd/ documents/Resource file setup -
\(Workflow 6.1\).pdf](http://www.cflhd.gov/cadd/documents/Resource%20file%20setup%20-%20(Workflow%206.1).pdf)