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Sincerely,

Ron

Ronald Brys, RLS
President, EnvisionCAD

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Enclosures: Sample content from our MicroStation V8i (SELECTseries) Update Manual

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UPDATE EDITION

MICROSTATIONupdate **V8i (SELECTseries)**



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EnvisionCAD - Education

MicroStation® V8i (SELECTseries) User Update Exercise Workbook

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Introduction

Welcome to MicroStation V8i (SELECTseries) Update training. This course was developed to help users that are familiar with either MicroStation V8 2004 or XM Editions migrate to V8i (SELECTseries). The goal of this manual is to have the user familiar with the new interface and tools so he or she can be productive with the new software in a short amount of time.

Document Conventions

Several conventions are used throughout this document to indicate actions to be taken or to highlight important information. The conventions are as follows:

<u>Item</u>	<u>Meaning</u>
Place Text	a command name or a file to select
Tools > Options	a command path to select – usually from a pull-down menus
<i>Key-In</i>	a prompt to enter data with the keyboard
<i>Document name</i>	italics in this style are used when referring to another document
<u>Note:</u>	Text information about a command or process to pay particular attention to
<i>Emphasis</i>	an important word or phrase
1. Numbered Steps	an action to be performed as part of a lab activities
<D> or Data	press the data button on the mouse
<R> or Reset	press the reset button on the mouse
<T> or Tentative	press the tentative button on the mouse



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chapter 5

Selection and Information

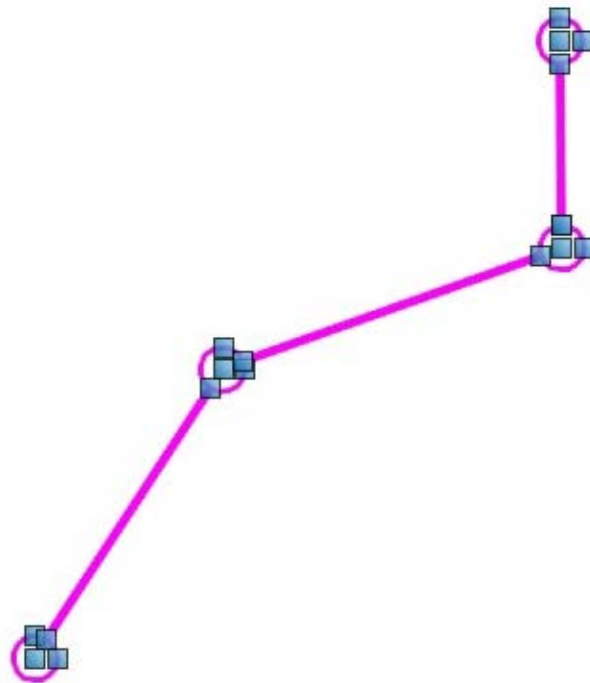




5. Selection and Information

Element Selection

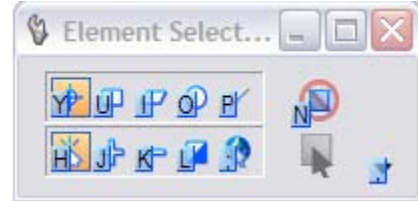
The **Element Selection** tool has been incorporated into Power Selector. Additional options include *Disable Handles* and *Select Handles*. These options allow multiple elements in a selection set to be modified by their handles.



- <D> on empty view space clears the selection set.
- Ctrl + <D> adds elements to a selection.
- <D> + drag - Left to Right creates an inside Block mode.
- <D> + drag - Right to Left creates an overlap Block mode.
- <D> + drag + Shift toggles overlap/inside Block mode.
- <D> + drag + Alt toggles Line mode.
- <D> <D> - Left to Right switches to block mode inside.
- <D> <D> - Right to Left switches to block mode overlap.

Selection and Information

- The Positional Keyboard mapping for Element selection Methods is:
 - *Y - Individual*
 - *U - Block*
 - *I - Shape*
 - *O - Circle*
 - *P - Line*
- The Positional Keyboard mapping for Element selection Modes is:
 - *H - New*
 - *J - Add*
 - *K - Subtract*
 - *L - Invert*
 - *;- Select All/None*

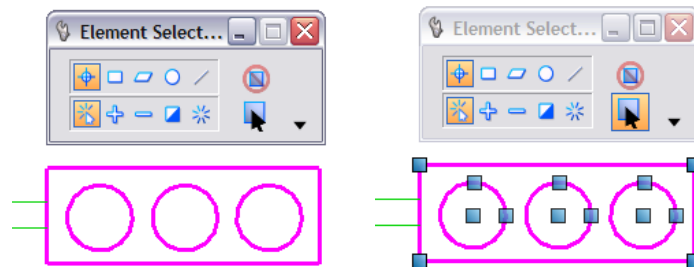


Handles

Functionality has been added to Handles to aid with editing a number of element types. Handles can now also be used with *references*, *reference clip boundaries*, and *named fences*.

Handle Display

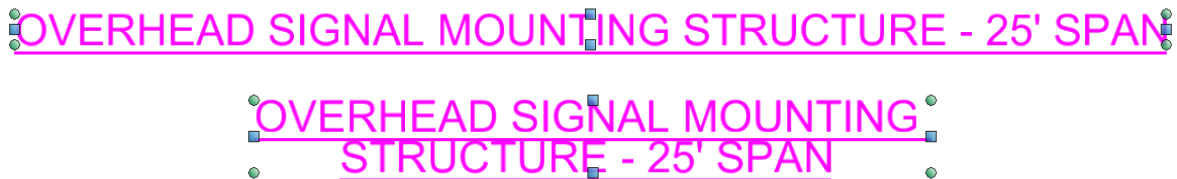
To Toggle the display of element handles, select the button on the lower right side of the **Element Selection Tool Settings** dialog.





Alternate Handles

On certain elements (for example, 'text' elements), alternate handles displayed as filled circles can be seen. These alternate handles allow for modifications such as text wrapping.



Move with Handles

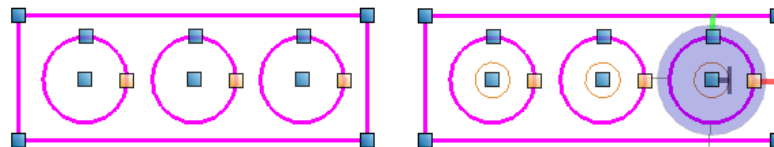
1. Select the desired elements.
2. Place the cursor over a selected element. Do not choose a handle.
3. <D> + **drag** the elements to the new location.

Copy with Handles

1. Select the desired elements.
2. Place the cursor over a selected element. Do not choose a handle.
3. <D> + **drag** the elements to the new location.
4. While dragging, press and hold the **Ctrl** key. An icon plus sign will appear next to the cursor. This indicates the elements will be copied.
5. When the cursor is at the placement location, release the mouse button.

Modify with Handles

Whenever elements are selected, the handles can be selected by holding the **Ctrl** key. When multiple elements are modified in this manner their geometric relationships are maintained.



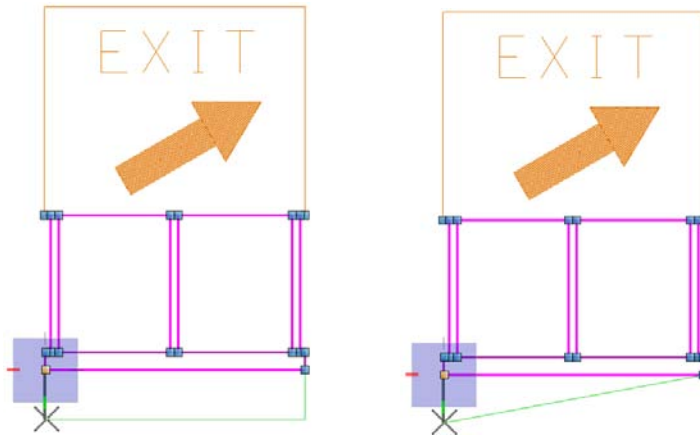
Selection and Information

Drag Selection for Manipulate commands

After selecting a Manipulate tool, multiple elements can be selected by dragging a selection window around them. Dragging left to right creates an inside area and dragging right to left will create an overlap area.

Alternate Modify

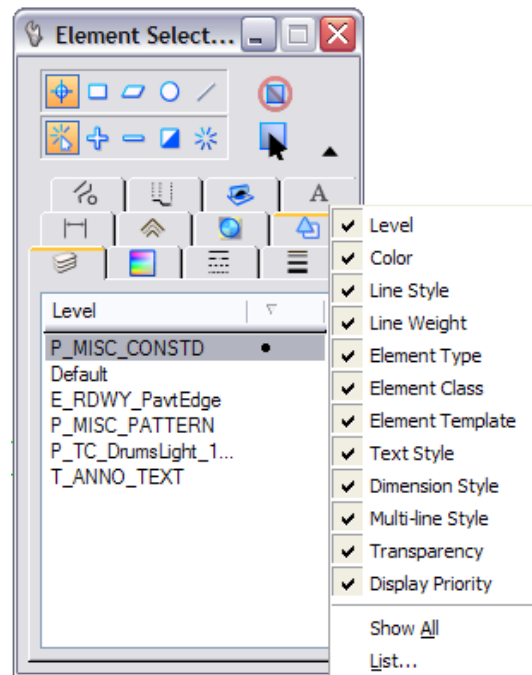
To modify handles without keeping the geometric relationship of the element to other elements, press the **ALT** key once to toggle off geometric relationship.



Additional Selection Criteria

Expanding the Element Selection criteria of the dialog displays additional categories for selection: **Text Style, Dimension Style, Multi-Line Style, Transparency, and Display Priority.**

By default, these new options are hidden. Right-clicking in the tab strip in the expanded area accesses the Show/Hide pop-up menu.

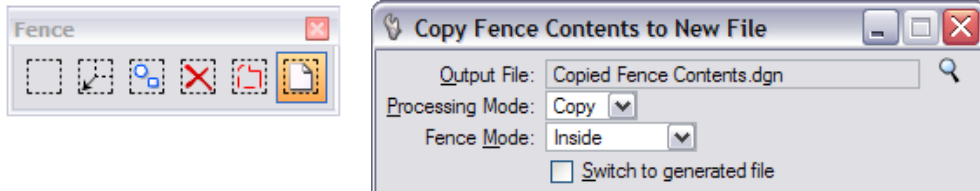




Fences

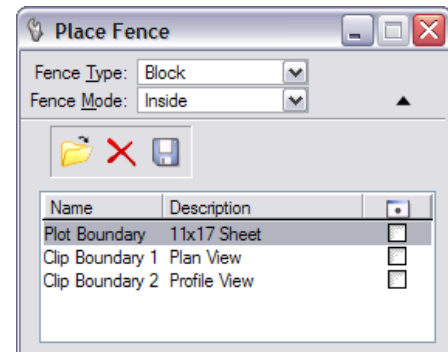
Copy/Move Fence Contents

The **Copy Fence Contents to New File** tool was added to the Fence toolbar. This icon replaces the Key-Ins “Fence File” and “Fence Separate”. This tool is used to copy and move contents of a fence to a new drawing.



Saved Fences

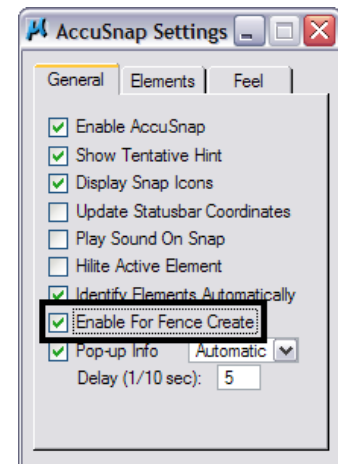
For the **Place Fence** tool, an area for *Saved Fences* has been added to the expanded section of Tool Settings window. This allows the user to recall and manage different fences in one drawing.



Fences and AccuSnap

In previous versions, users were required to simultaneously hold down the **Shift** and **Ctrl** keys to enable AccuSnap when placing a fence. This key sequence is still available.

Users can now also permanently enable AccuSnap when creating a fence. In the **AccuSnap Settings** dialog there is a new *Enable for Fence Create* checkbox.



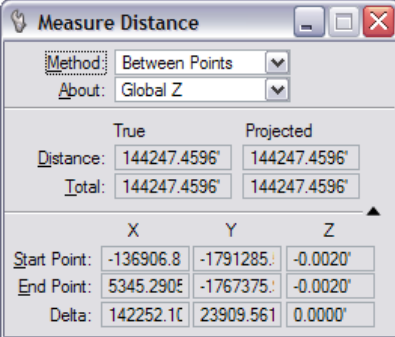
Measuring

A new **About** selection list has been added to the majority of the measuring tools. The following options are available:

- **Global Z** – measures true distance in 3D
- **View Z** – measures planar distance based on the current view
- **ACS Z** – measures based on current Auxiliary Coordinate System
- **AccuDraw Z** – measures based on current AccuDraw coordinate system

Measure Distance

The **Measure Distance** tool settings dialog has been expanded. It now provides additional measurement details than in previous versions. The data in these fields can be copied and pasted in to other Windows applications.




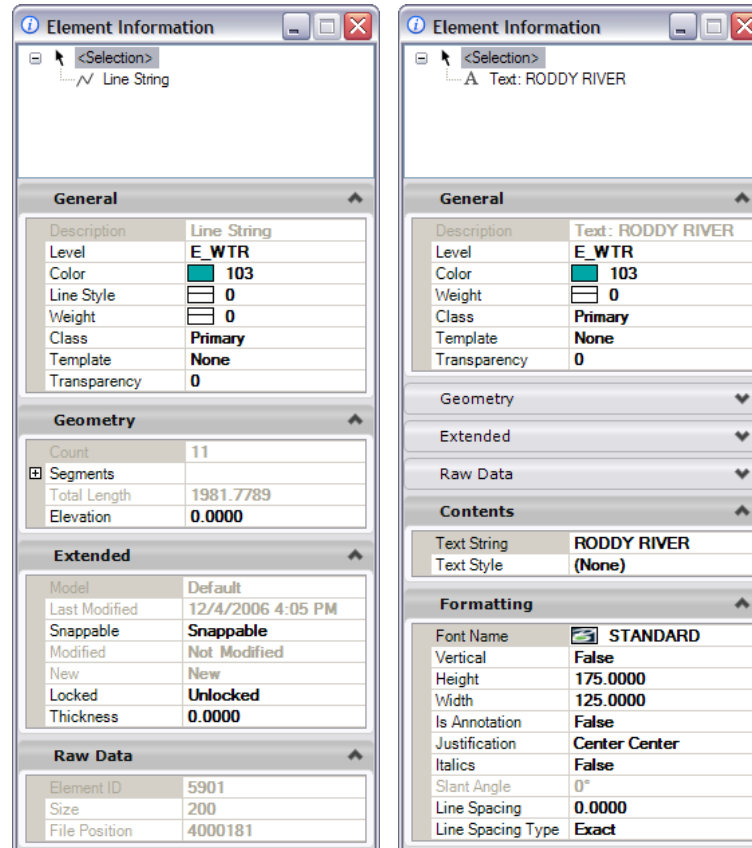
	True	Projected
Distance:	144247.4596'	144247.4596'
Total:	144247.4596'	144247.4596'

	X	Y	Z
Start Point:	-136906.8	-1791285.	-0.0020'
End Point:	5345.290E	-1767375.	-0.0020'
Delta:	142252.1C	23909.561	0.0000'



Element Information

The *Element Information*  dialog has been redesigned with additional ways for editing element information. Information displayed varies depending on the element type selected. If multiple elements are selected, the elements will be listed in the top section of the Selection tree.

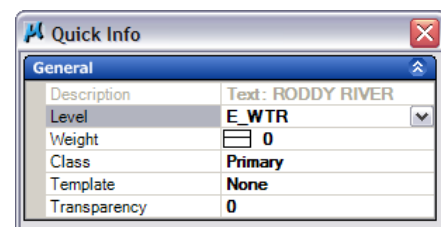


Element properties can be edited from this dialog by selecting the field. Either key-in the new value or select from the drop-down menu.

Right-clicking in the dialog will bring up the Show/Hide shortcut menu. This menu controls the display of available tabs.

Quick Info

This dialog displays the element level and symbology. To access the dialog, hover the cursor over the element, hold down the **Alt** key, and right-click.



Analyze Element

The old **Analyze Element** dialog can be accessed using the key-in **Analyze Element**.



Lab 5 – Selection and Information

Objectives

The purposes of this lab are to:

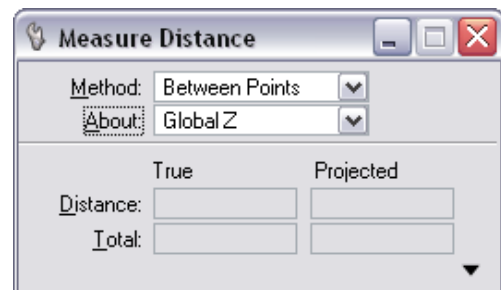
- Become familiar with editing using Handles
- Use measuring tools
- Edit elements using Element Information
- Save Fences

Open the Design File

1. Launch MicroStation.
2. From the **MicroStation Manager** dialog set the directory to:
C:\EnvisionCAD\MicroStation V8i (SELECTseries)\User Update\CIVIL
3. Select the file named:
Project_Roadway Intersetcion.dgn
4. <D> the Open button.
5. Verify the *Geometry* is the active model.

Measure

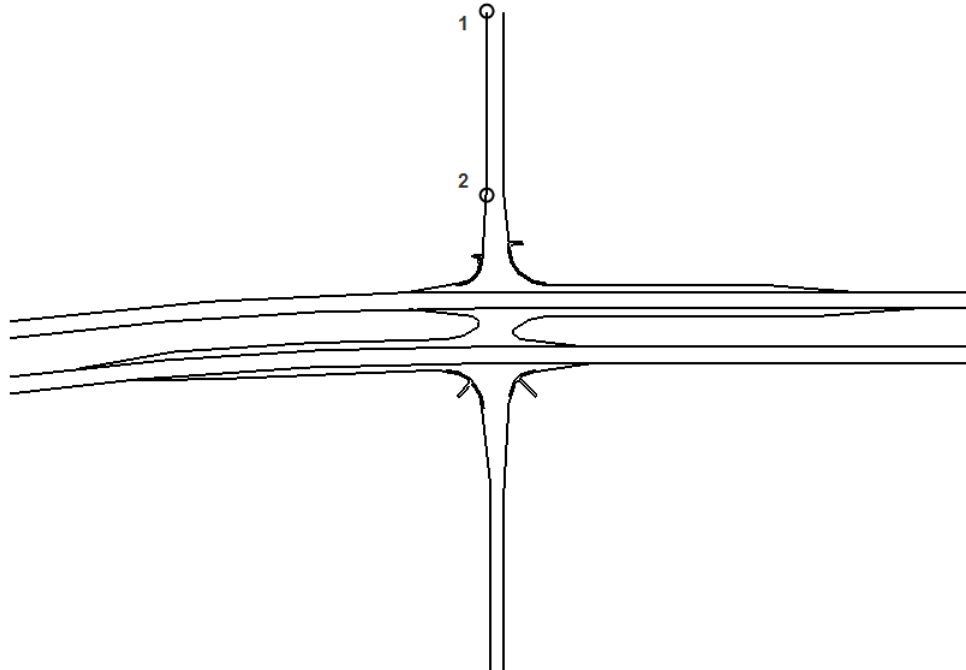
1. Select the **Measure Distance** tool [9,1]
2. Select the Tool Settings:
Distance: Between Points
Mode: Global Z



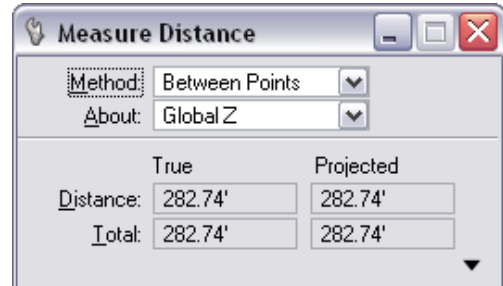


Selection and Information

- 3. Measure the line segment shown below. Use **AccuSnap** or the <T> button to snap to the endpoints of the line segment.



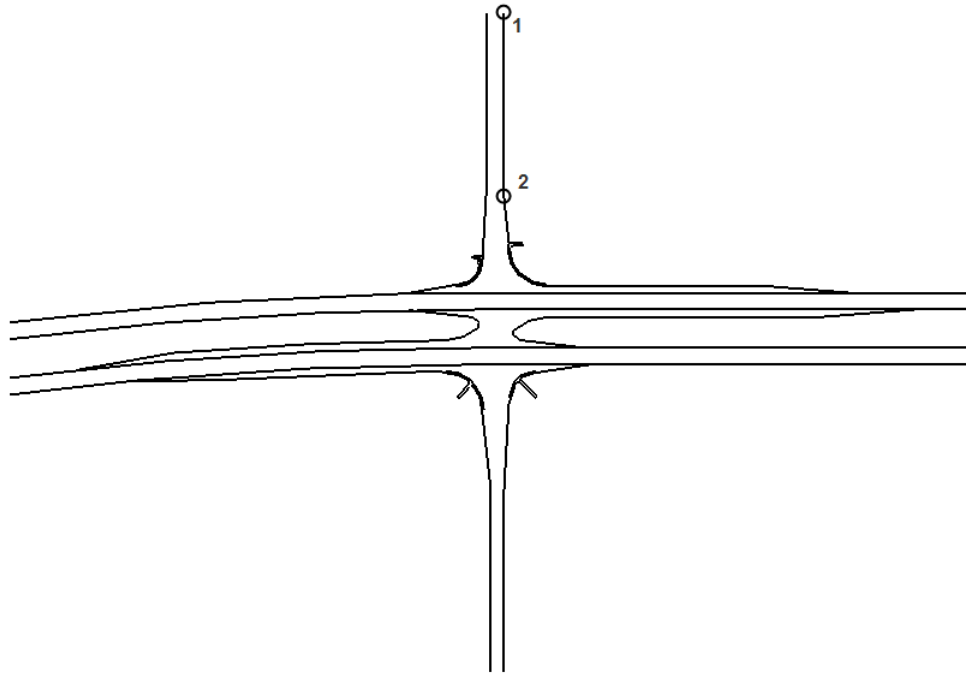
The True distance measure should be **282.74'**.



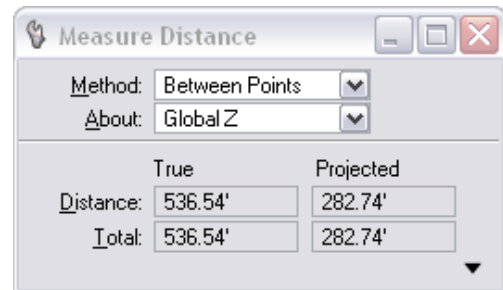


Selection and Information

4. Keep the same Tool Settings and measure the line segment shown below. Use **AccuSnap** or the <T> button to snap to the endpoints of the line segment.



The True distance measured should be **536.54'**. This line has a bad elevation value and is measuring the slope or true distance.



Lab Continues



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