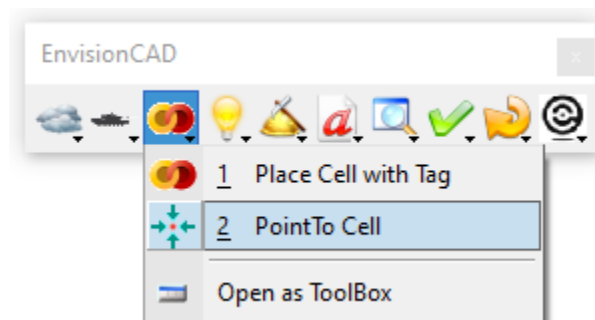




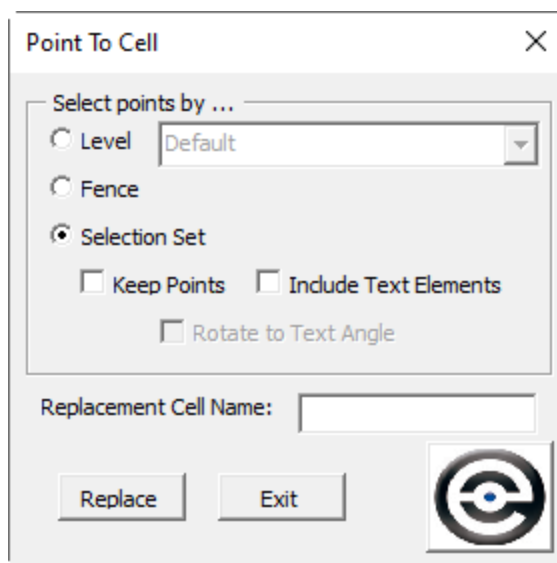
## MicroStation VBA Macro: Point To Cell



*Note: menu options may appear different as more freeware tools are added*

**Key-in Command:** VBA RUN [PointToCell]PointToCell

The **Point To Cell** application replaces point elements with a cell, or places a cell at the origin point of text elements. This tool is useful when importing point GIS files without the aid of OpenCities Map, or for replacing survey points.



### **Tool Options:**

- **Select points by...**
  - **Level** – Selects point elements on the specified level
  - **Fence** – Selects points in the active fence area
  - **Selection Set** – Selects points in the active selection set
  - **Keep Points** – When checked on the point elements are retained, otherwise the point elements are removed after the replacement cell is placed.
  - **Include Text Elements** – When checked on any text elements will also be replaced with a cell.



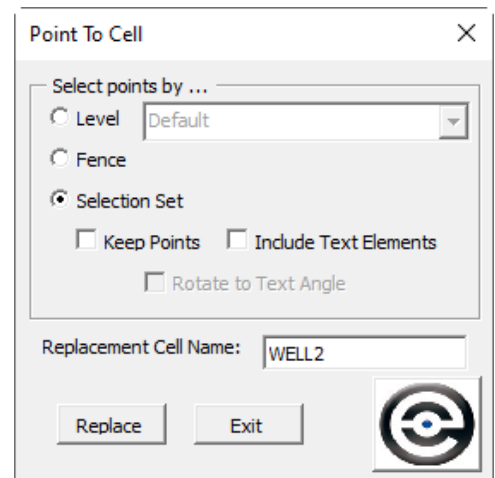
- **Rotate to Text Angle** – Used with Include Text Elements. When checked on the new cells will be placed at the same rotation as the corresponding text element.
- **Replacement Cell Name** – Sets the name of the cell to place at each point location found.
- **Replace** – Executes the Point To Cell operation.
- **Exit** – Exits the macro.

### Example 1 – Replacing point elements with a cell

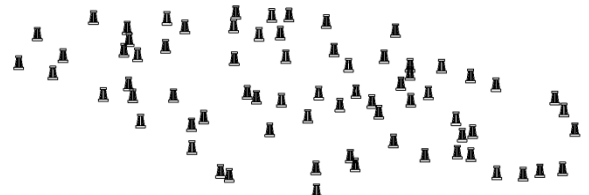
In this example we have an ArcView Shapefile file containing point features that has been imported into MicroStation. Using the MicroStation Element Selection tool all of the points have been selected.



In the Point To Cell dialog the selection option is set to **Selection Set**, the **Replacement Cell Name** is set to WELL2.



After clicking Replace all of the selected points are replaced with the specified cell. The cells are placed with the active symbology and using the active scale and angle. The original point elements are removed as the Keep Points checkbox was unchecked.



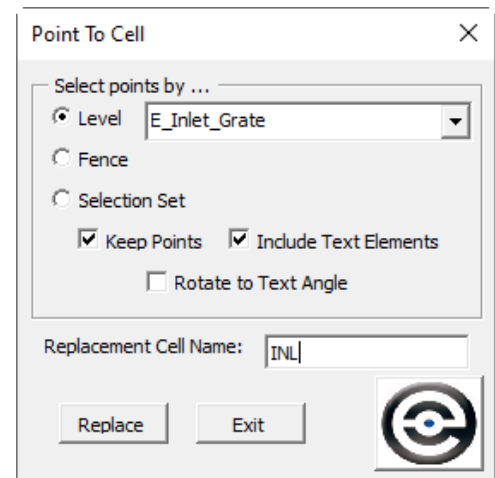


## Example 2 – Adding cells to text elements at active angle

In this example we have text labels placed at Inlet locations. We will use the Point To Cell tool to automatically place an Inlet cell at each location.

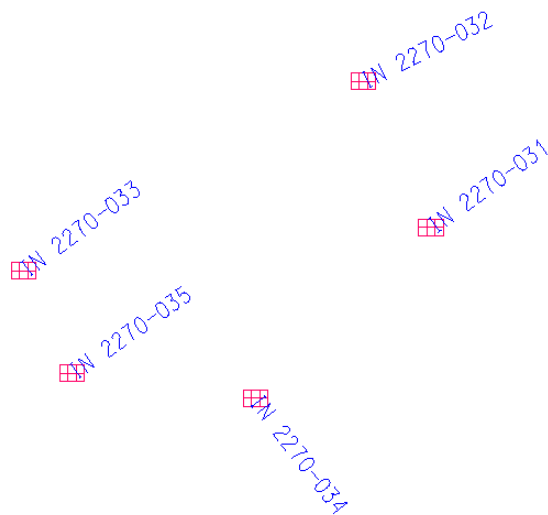
IN 2270-032  
IN 2270-031  
IN 2270-034  
IN 2270-035  
IN 2270-033

In this design file the Inlet labels reside on E\_Inlet\_Grate, so the selection criteria is adjusted accordingly. Since we want to process text elements the Include Text Elements check box is toggled on.



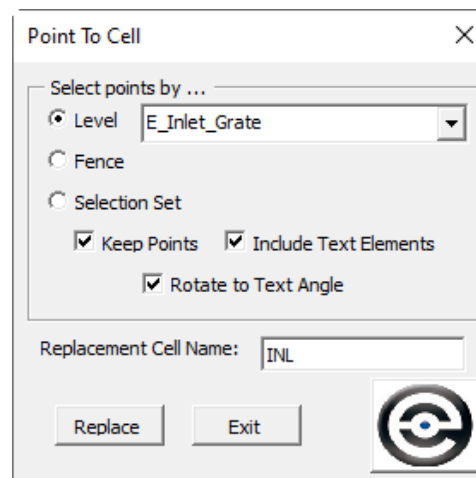


After clicking Replace the Inlet cell is placed at the origin location for each text element on E\_Inlet\_Grate. The cells are placed with the active symbology and using the active scale and angle. Notice the Keep Points checkbox was toggled on and the original text elements are retained.



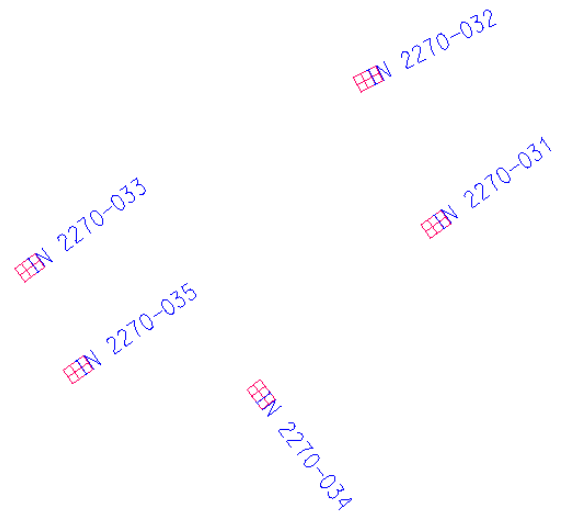
### Example 3 – Adding cells to text elements at text angle

In many cases you may want the cell to be rotated to match the angle of the corresponding text element. We will rerun the previous example toggling on the Rotate to Text Angle checkbox to accomplish this.





After clicking Replace the Inlet cell is again placed at the origin location for each text element on E\_Inlet\_Grate. This time however the cells are rotated to match the rotation of the corresponding text element.



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