

Bulk SONEZLL Labeling

Setup:

NOTE: Setup is a one-time process. If functionality is already set up skip to **Using the Functionality** section below.

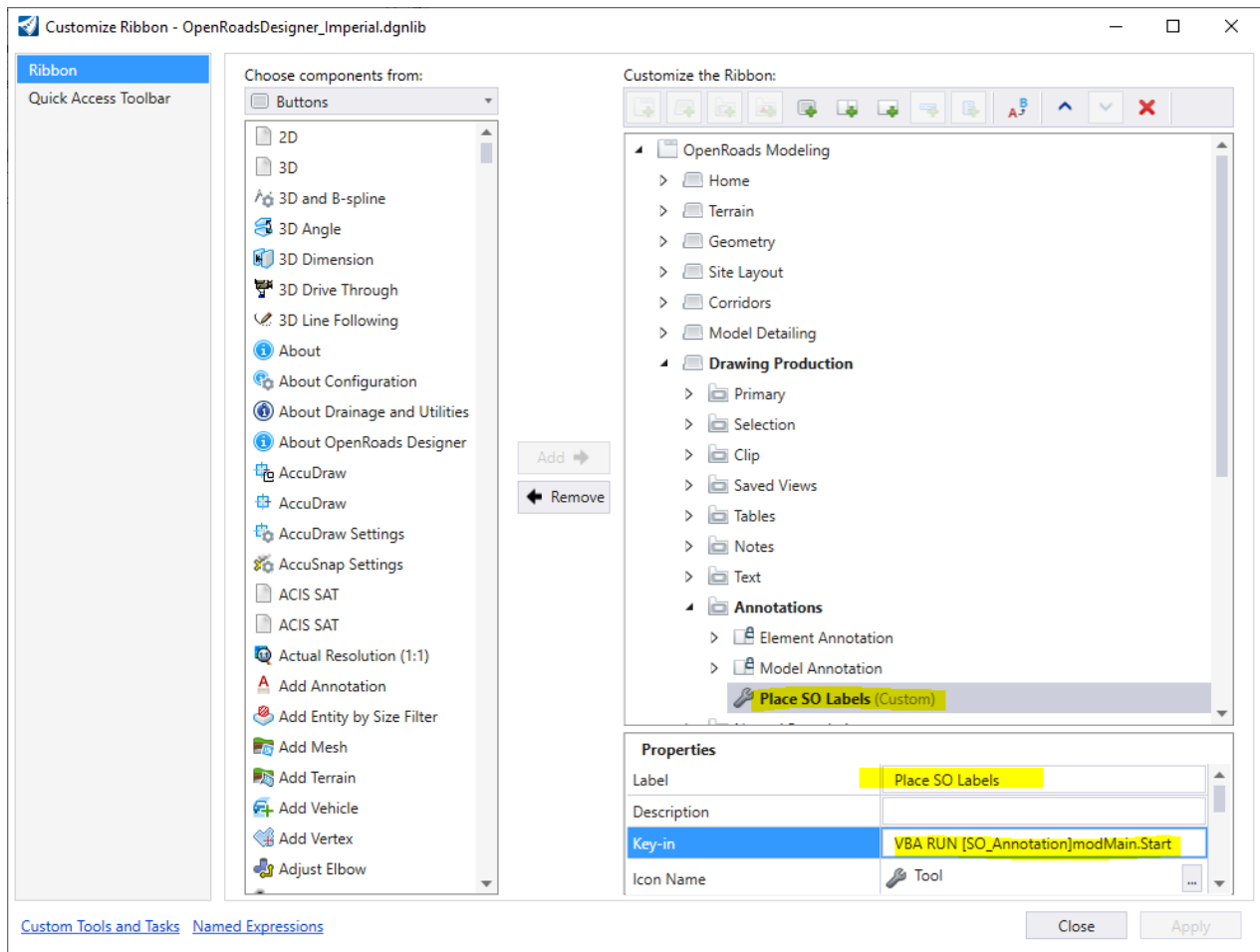
1. Create a **Text Style** that you would like to use for the labels. This text style must be named **SOAnno** (required).
2. In the **Manage Element Template** dialog create a folder called **Annotation** if it does not exist.
3. Create a folder in the *Annotation* folder named **Plan** if it does not exist.
4. Create an **Element Template** for the leader lines in the *Plan* folder and name it **SOAnno** (required). Define the Color, Level, Line Style and Weight.
5. Place the provided XML Style Sheets (**NameDescStationOffsetPoints_For_Annotation.xml** and **NameDescStationOffsetBase_For_Annotation.xml**) in the following folder location:

C:\Program Files\Bentley\OpenRoads Designer CONNECT
Edition\OpenRoadsDesigner\Default\ Reports\StationOffset

OR

If customized place them in the StationOffset folder where the
CIVIL_REPORTS_DIRECTORY variable points

6. Place the provided **SONEZLL_Annotation.MVBA** in the folder where the variable *MS_VBASEARCHDIRECTORIES* points to.
7. Create a custom button in the interface and enter the key in VBA RUN
[SONEZLL_Annotation]modMain.Start. The button can be created anywhere in the interface.



Using the Functionality:

To annotate points (non-linear) features.

Note1 : For Lat/Long and GSF values to be annotated you must have a projection system set in the file.

Note2 : This file works only on point features. It will not work on linear features.

Note3 : This command creates a file called LLCoords.txt in the same directory of the DGN file. This file is a comma delimited file suitable for populating a table.

1. Select all the points you want to report on.

Note: When in a 2D model Geometry Points with elevation also have a 3D point in the referenced 3D model. Both can be reported on. Make sure the one you want reported on is selected.

2. Run the **OpenRoads Modeling > Geometry > General Tools > Reports > Point Feature Station Offset Elevation Report** for the points and select the base alignment you want to report on.
3. Select the **NameDescStationOffsetPoints_For_Annotation.xml** style sheet.
4. Go to **File > Save As** from the *Report Browser*.
5. Navigate to the folder where the active DGN file is.

6. Change the **Save as File Type** to **Text File (*.txt)**.
7. Save the file to a local folder.
8. Run the command to annotate the points. Pick the file saved in step 7. A mark is set when running the command so you can Undo > To Mark if needed.

To annotate points on a linear feature(s)

1. Run the **OpenRoads Modeling > Geometry > General Tools > Reports > Station Base Report** for the linear elements and base alignment you want to report on.
2. Select the ***NameDescStationOffsetBase_For_Annotation.xsl*** style sheet.
3. Go to **File > Save As** from the *Report Browser*.
4. Navigate to the folder where the active DGN file is.
5. Change the **Save as File Type** to **Text File (*.txt)**.
6. Save the file to a local folder.
7. Run the command to annotate the points. Pick the file saved in step 7. A mark is set when running the command so you can Undo To Mark if needed.

Command Settings:

Station Offset Annotation

Report File:
E:\!_NYSDOT\Dgn\SOPointLabels.txt

Leader 1 Length:
10
Leader 2 Length:
2
Text Offset:
2.5
☒ View Independent

☒ Annotate Point Name

Point Name Prefix:
Pt:
Suffix:

☐ Annotate Point Description

Point Name Prefix:
Desc:
Suffix:

☐ Annotate Station

Station Prefix:
Sta:
Suffix:

☒ Annotate Offset

Offset Prefix:
Off:
Suffix:
'

☒ Use Prefix/Suffix for Side

Left Prefix:
Suffix:
L
Right Prefix:
Suffix:
R

☐ Annotate Elevation

Elevation Prefix:
EL:
Suffix:

☐ Annotate Coordinates

Northing Prefix:
N:
Suffix:
Easting Prefix:
E:
Suffix:

☒ Annotate Latitude & Longitude

Latitude Prefix:
Suffix:
N
Longitude Prefix:
Suffix:
W
Angle Format:
DD^MM'SS"

☒ Annotate GridScale Factor

Factor Prefix:
GSF:
Suffix:

This command creates a file named LLCoords.txt in the same directory as this DGN file.

Apply

Cancel

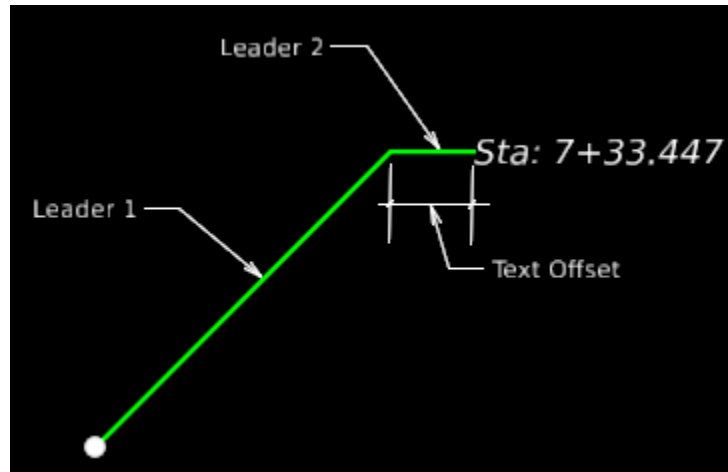
Report File: File saved from reporting

Leader 1 Length: The length of Leader 1. Value can be negative or zero.

Leader 2 Length: The length of Leader 2. Value can be negative or zero.

Text Offset: Text offset from the end of the first leader line.

View Independent: When on creates view independent text



Annotate Point Name: Enables the Point Name annotation

Point Name Prefix: Prefix is added to the beginning of the Point Name value. Can be blank.

Point Name Suffix: Suffix is added to the end of the Point Name value. Can be blank.

Annotate Point Description: Enables the Point Description annotation

Point Description Prefix: Prefix is added to the beginning of the Point Description value. Can be blank.

Point Description Suffix: Suffix is added to the end of the Point Description value. Can be blank.

Annotate Station: Enables the station annotation

Station Prefix: Prefix is added to the beginning of the station value. Can be blank.

Station Suffix: Suffix is added to the end of the station value. Can be blank.

Annotate Offset: Enables the offset annotation.

Offset Prefix: Prefix is added to the beginning of the offset value. Can be blank.

Offset Suffix: Suffix is added to the end of the offset value. Can be blank.

Use Prefix/Suffix for Side: If ON the offset value is the absolute value of offset. This means that left offsets (normally negative) are converted to a positive value. It will also add the prefixes and suffixes that are defined below.

Left Prefix: Left offset prefix value. Can be blank.

Left Suffix: Left offset Suffix value. Can be blank.

Right Prefix: Right offset prefix value. Can be blank.

Right Suffix: Right offset suffix value. Can be blank.

The way it builds a text string for the station is as follows:

<Station Prefix> & 10+123.111 & <Station Suffix>

The way it builds a text string for the offset is as follows (**Use Prefix/Suffix for Side: OFF**):

<Offset Prefix> & -12.345 & <Offset Suffix>

The way it builds a string for the offset is as follows (**Use Prefix/Suffix for Side: ON**):

<Offset Prefix> & <Left Prefix> & 12.345 & <Offset Suffix> & <Left Suffix>

OR

<Offset Prefix> & <Right Prefix> & 12.345 & <Offset Suffix> & <Right Suffix>

Annotate Elevation: Enables the elevation annotation.

Elevation Prefix: Prefix is added to the beginning of the elevation value. Can be blank.

Elevation Suffix: Suffix is added to the end of the elevation value. Can be blank.

Annotate Coordinates: Enables the coordinate annotation.

Northing Prefix: Prefix is added to the beginning of the northing value. Can be blank

Northing Suffix: Suffix is added to the end of the northing value. Can be blank.

Easting Prefix: Prefix is added to the beginning of the easting value. Can be blank.

Easting Suffix: Suffix is added to the end of the easting value. Can be blank.

Annotate Latitude & Longitude: Enables the Latitude and Longitude annotation.

Latitude Prefix: Prefix is added to the beginning of the Latitude value. Can be blank

Latitude Suffix: Suffix is added to the end of the Latitude value. Can be blank.

Longitude Prefix: Prefix is added to the beginning of the Longitude value. Can be blank.

Longitude Suffix: Suffix is added to the end of the Longitude value. Can be blank.

Annotate GridScale Factor: Enables the GridScale Factor annotation.

Latitude Prefix: Prefix is added to the beginning of the GridScale Factor value. Can be blank

Latitude Suffix: Suffix is added to the end of the GridScale Factor value. Can be blank.