

How to Place Resilient Nodes in ORD

This placement method is recommended because it addresses issues with boxes moving to unintended locations due to updates in the roadway corridor model. Additionally, it ensures the correct longitudinal slope is used for calculations.

Setup:

Make sure Persist Snap is Turned Off



Turn on Civil Accudraw



Click the Plan View Window

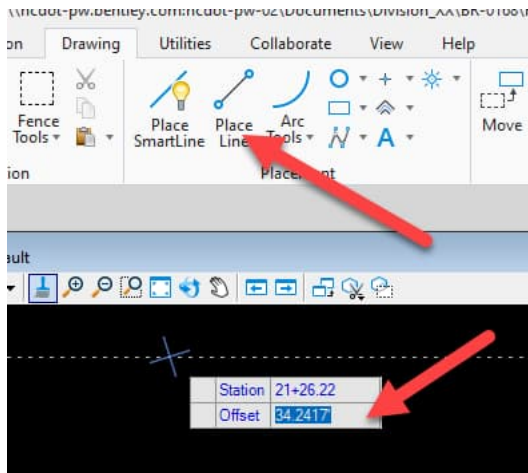


Go to Civil Accudraw and select Station Offset



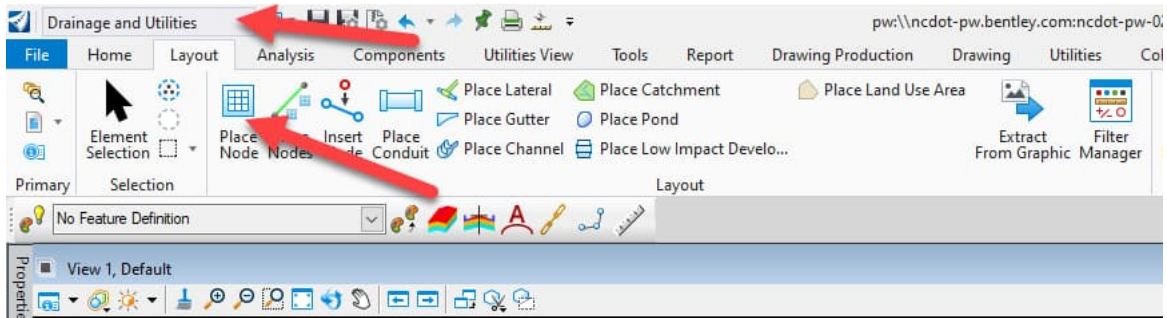
*Civil Accudraw Calibration can be done now or later when placing node. To calibrate during set up to use the alignment station and offset:

Drawing→ place line→ tab to offset and enter the letter “O” → select the alignment.

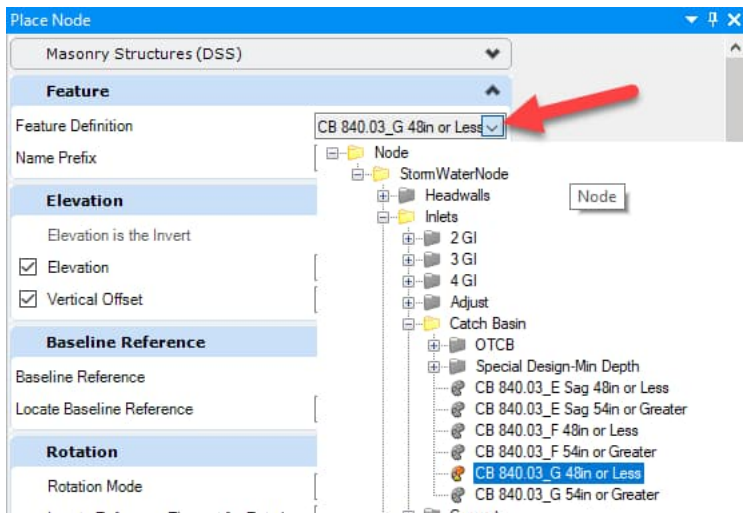


Place Node:

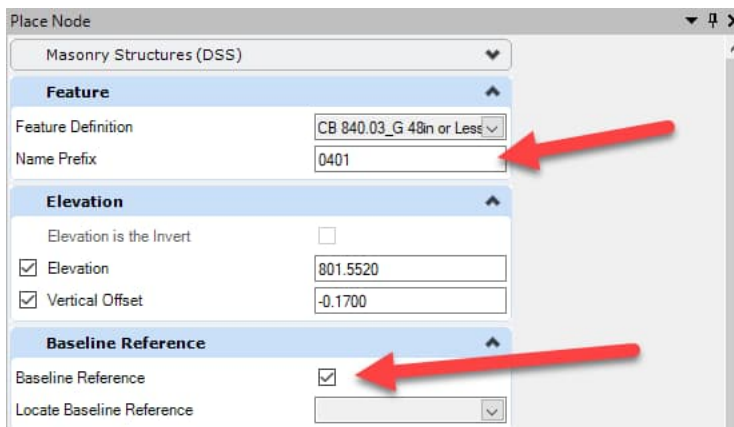
Go to the Drainage and Utility Workflow and select Place Node



Select Feature Definition

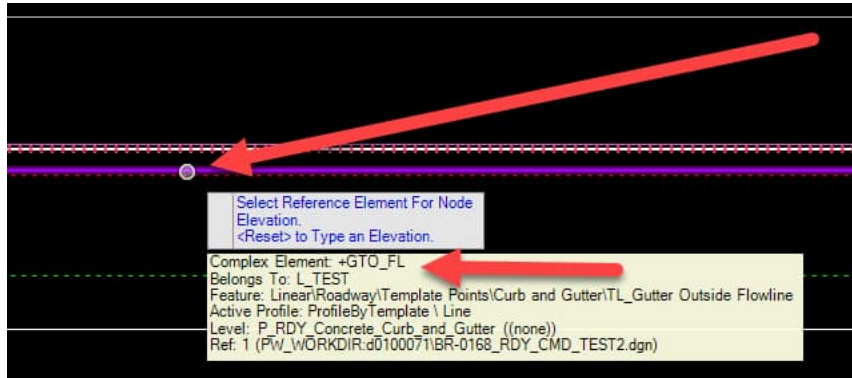


Name Structure and Make sure Baseline Reference is Checked



Select Reference Element for Node Elevation → Gutter Flow Line

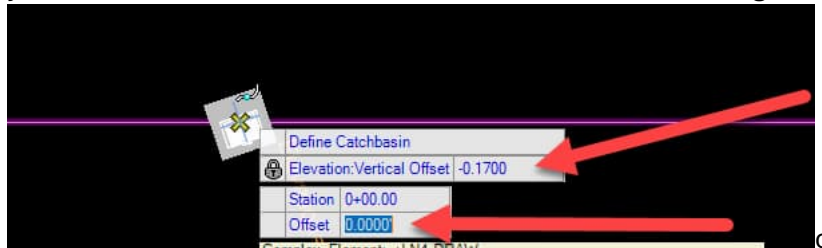
In the heads up Display, “Select Reference Element for Node Elevation” Select Gutter flow Line which will be label either **+GFL** for right side of alignment or **-GFL** for left side of the alignment



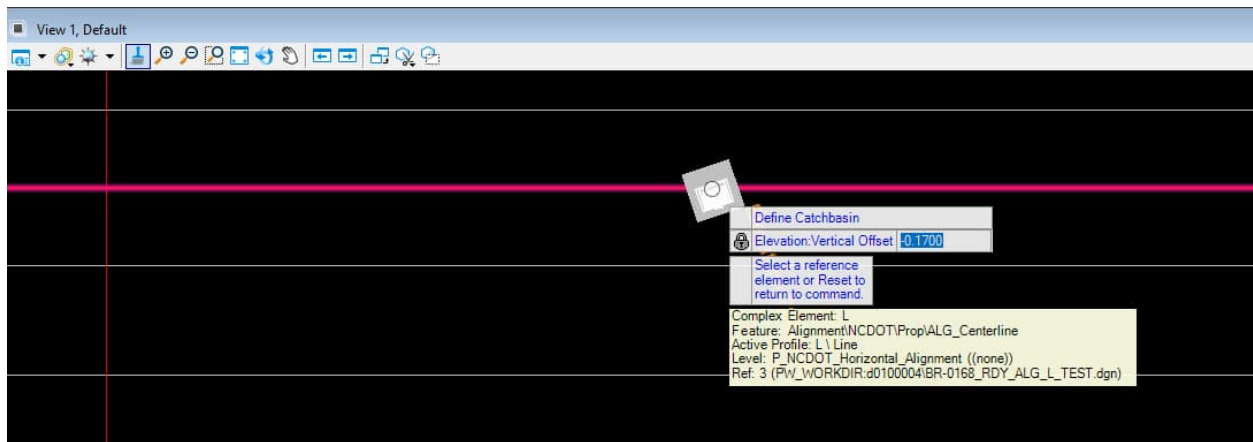
Define “Elevation: Vertical Offset” as “**-0.17**”: This accounts for Gutter Depression

Note: if calibration wasn’t completed earlier, it can be done now:

*Tab till you get to “Offset” → Enter the letter “**O**”: This allows you to define the alignment to input your boxes with station and offset. This could be done during this step or in the initial setup.

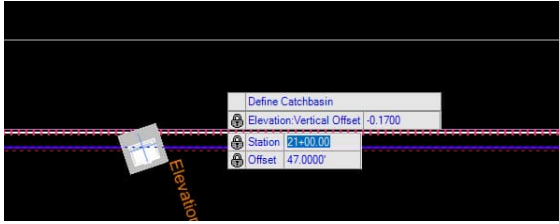


After entering “O” in the offset: you will be prompted to select a reference → **Roadway Alignment**



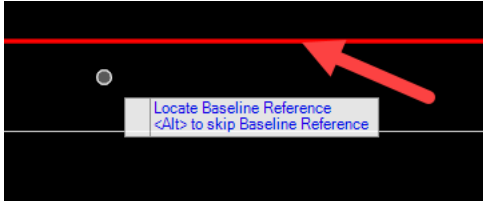
You will now be able to place a node with station and offset. You can either type in the station and offset or you can hover over the area where you would like to place a node and hit enter twice to lock in the station offset. Once the station and offset are locked Left Click to accept.

NOTE: If your station or offset are locked then you can hit the **END** on your keyboard to unlock.

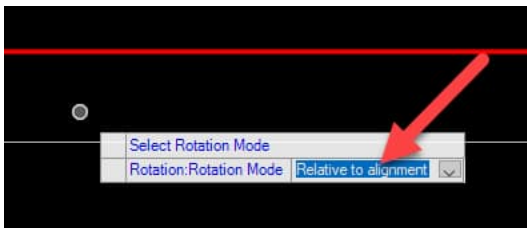


Locate Baseline Reference → Roadway Alignment

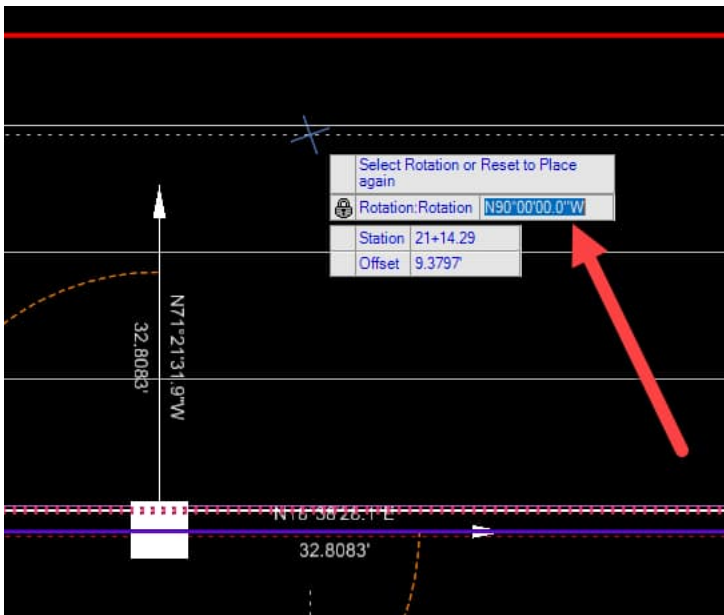
Once you click to accept placement, “Locate Baseline Reference” select the Roadway Alignment



Select Rotation Mode → Relative to Alignment



Click to accept the rotation mode relative to alignment and select Gutter Flow Line when prompted.



Rotational angle can be keyed in as 0 or 180 degrees depending on which side of the road the node is located. If the arrow is pointing towards the alignment, then the correct rotation was used.