

Stationing a Polyline

The following instructions will guide you through the process of creating a polyline and stationing it (0+00, 1+00, etc.). Carlson modules are displayed as **{Civil-Design}**, main menus are displayed as **[3D Polyline]** sub-menus and commands are displayed as **<3D polyline>**.

- 1) Draw the polyline to be stationing :
 - a. **{Any Module} → [Draw] → < 3D polyline>**. The start point of the polyline will be station 0+00. Use the osnap “node” to connect to points and any other osnap mode for contours.
 - b. **{Any Module} → [Draw] → < 2D polyline>**. The start point of the polyline will be station 0+00. Use any osnap mode to connect to the points and contours.
- 2) If the polyline is drawn the wrong direction, go to **{Any Module} → [Edit] → <Polyline Utilities> → <Reverse Polyline>**. The arrows point towards the high station end of the line.
- 3) The **<Station Polyline>** command is found in two modules:
 - a. **{Survey} → [Centerline] → <Station Polyline/Centerline>**
 - b. **{Civil-Design} → [Centerline] → <Station Polyline/Centerline>**
- 4) The Station Polyline/Centerline options window opens. Set the following options:
 - a. Distance for Stations: Desired labeled station – **100.0**
 - b. Distance for Intermediate Stations: Desired ticked station – **50.0**
 - c. Locate Even Stations: **Checked**. Located stations at intervals specified
 - d. Locate Odd Stations. **Unchecked**. Locates all bends in polyline.
 - e. Locate User Entered. **Unchecked**. Locates stations typed in.
 - f. Label Station Text: **Checked**. Draws the text labels next to the stations.
 - g. Centerline by...: **2D Polyline (Horiz Sta)**
 - h. Station Type: **1+00**
 - i. Type of Curve: **Roadway**
- 5) Click “**Label Setup**”
- 6) In the Label Setup window, select the following options:
 - a. Text Layer: **PLN – Stations**
 - b. Text Size Scaler: **horizontal scale x 0.125** (ex. 20 x 0.125 = 2.5)

- c. Text Offset Scaler: **same as Text Size Scaler**
 - d. Decimals: **0**
 - e. Flip Text for Twist Screen: If checked, the station text will be twisted in the orientation of the twisted screen.
 - f. Label Stations and Position set per user preferences
 - g. Click "**OK**" when done
- 7) Click "**Marker Setup**"
 - 8) In the Marker Setup window, select the following options:
 - a. Marker Layer: **PLN – Stations**
 - b. Main Marker Size Scaler: **same as Text Size Scaler from 6c**
 - c. Intermediate Marker Size Scaler: **same as Text Size Scaler from 6c**
 - d. Click "**OK**" when done
 - 9) Click "**OK**" in the Station Polyline window when done
 - 10) **Click the line** that you want stationing
 - 11) Inspect the stationing and redo if necessary