

Bridge Design Details 2C June 2025

High Point and Low Point Formula

$$l = \frac{G_1}{\left(\frac{R}{C}\right)}$$

l - Length at high point or low point.

The elevation at any point along a curve is given by the following equation:

$$\emptyset = G_1 + \left(\frac{R}{C}\right)(l)$$

$$l = \frac{-G_1}{\left(\frac{R}{C}\right)}$$

Examples:

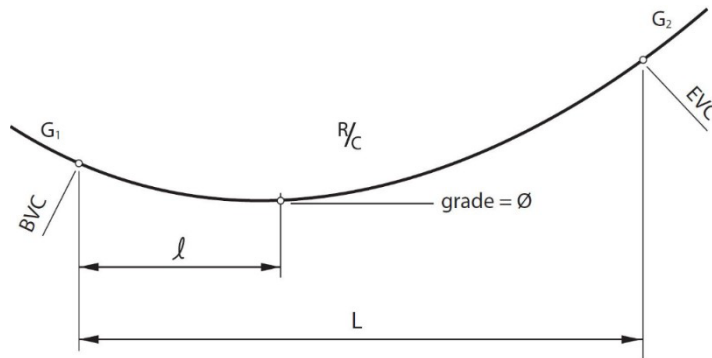


Figure 2A.C.1 Low Point (Sag Curve)

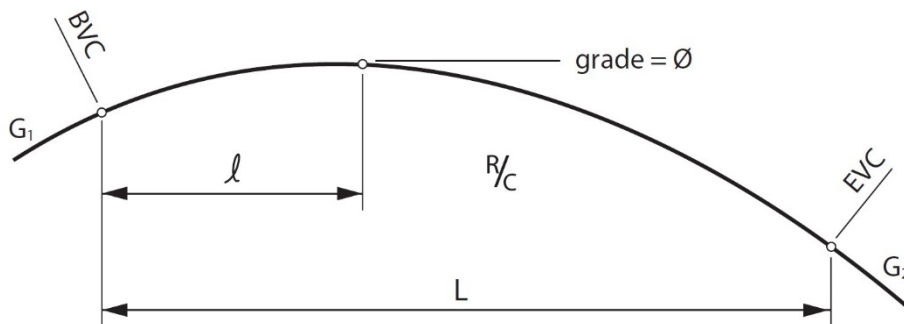


Figure 2A.C.2 High Point (Crest Curve)