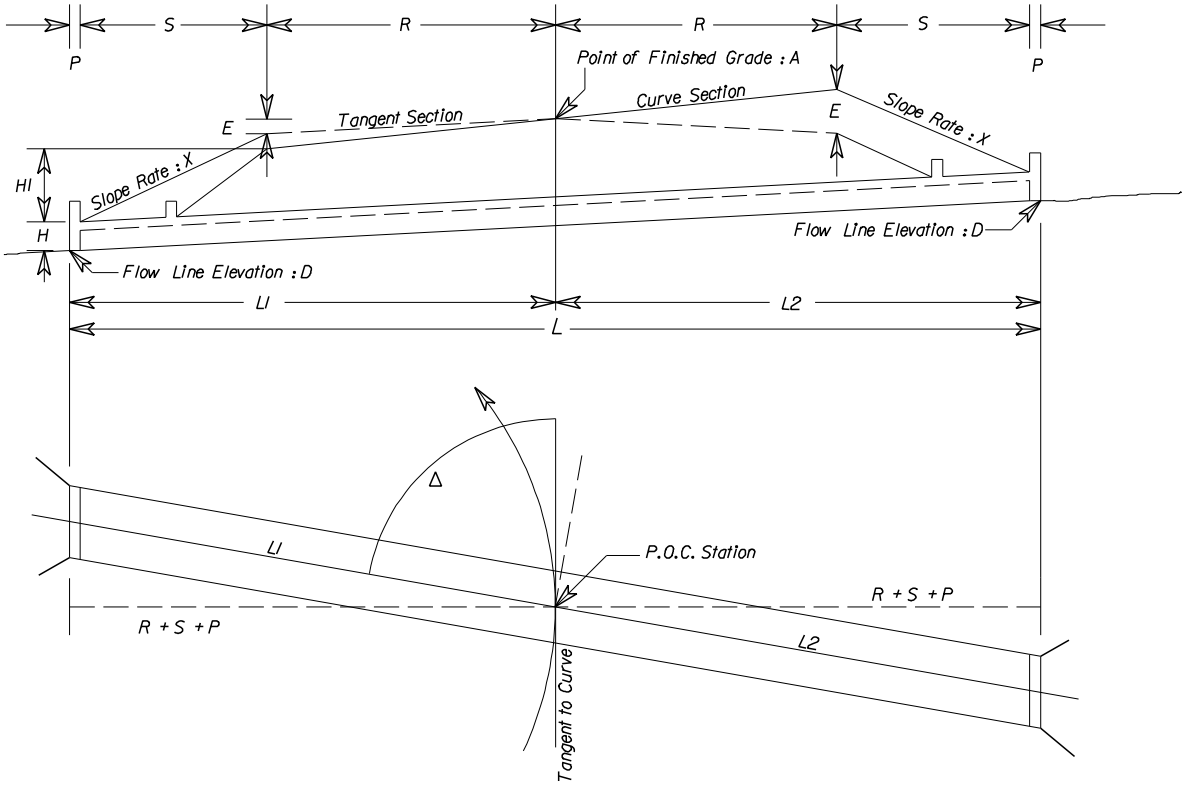
Figure 8-L
Sketch Showing Procedure for Checking Box Culvert



Given:

Box Length	*(L)*
Box Height	*(H)*
Station and Finished Grade	*(A)*
Super Elevation	*(E)*
Flow Line Elevation	*(D)*
Pavement and Shoulder Width	*(R)*
Slope Rate	*(X)*
Delta	*(D)*

Required: L1 and L2

Solution:

Elevation "A" ± "E" = Elevation "B"

Elevation Flow Line "D" + "H" = Elevation "C"

"B" – "C" = "HI"

"HI" x "X" = "S"

"R" + "S" + "P" = L1 or L2

For Skew Angles:

$$L1 \text{ or } L2 = \frac{\text{"R" + "S"}}{\text{Sin D}} + \text{"P"}$$