

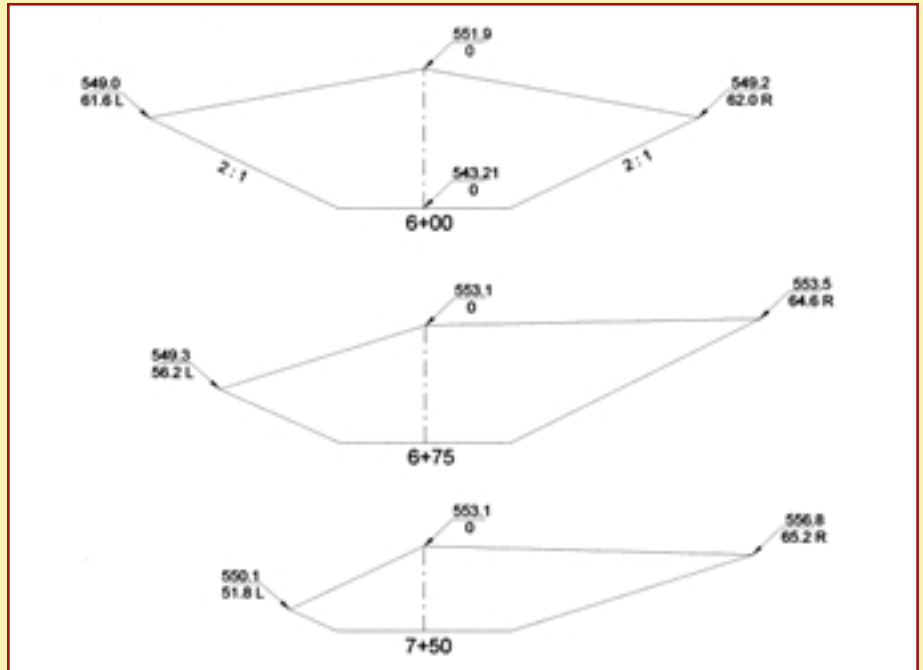


THE PROBLEM CORNER

This month's challenges involve finding a volume of dirt for a roadway, and finding central angles and the location of the end of a curve.

Problem Number 21

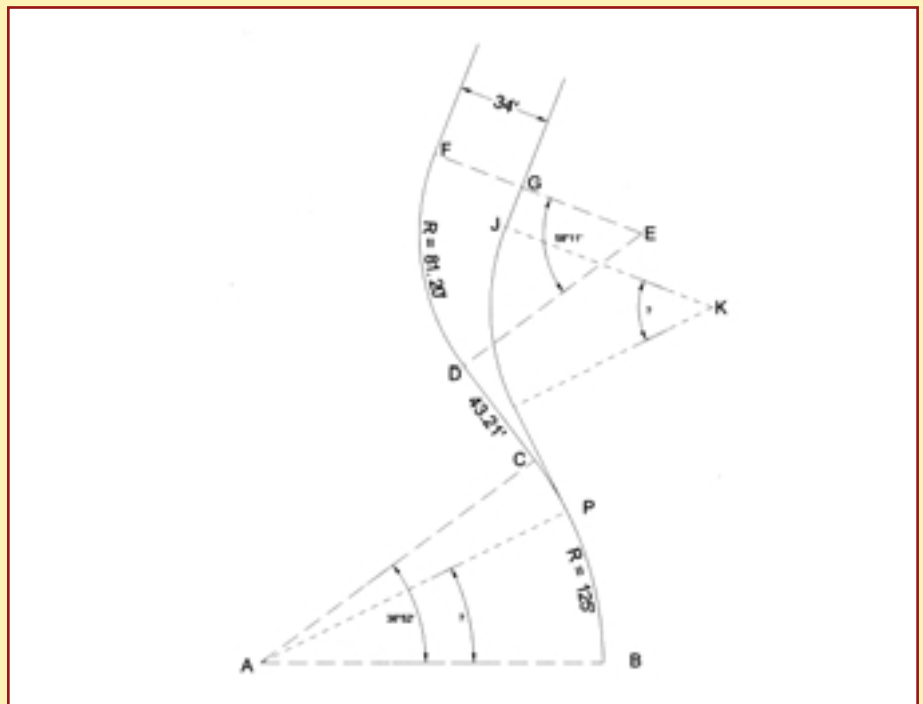
The cross sections in the diagram represent the final slope staking results for a 100' wide roadway that rises at a rate of 4%. What is the volume of dirt between stations 6+00 and 7+50? (The number above the arrow is the elevation, the number below the arrow is the offset from centerline).



Problem Number 22

Given the two curves and the tangent joining them, find the new central angles and the location of the end of the $R = 81.20'$ curve so that it will end in a parallel tangent as shown without changing the beginning of the $R = 125'$ curve or the tangent between them.

For solutions to Problems 19-20 see page 50



Note: For those of you who don't want to wait until next month's issue to find the answers, solutions are now posted on our Website. Visit www.profsurv.com and click on Problem Corner. Good luck!