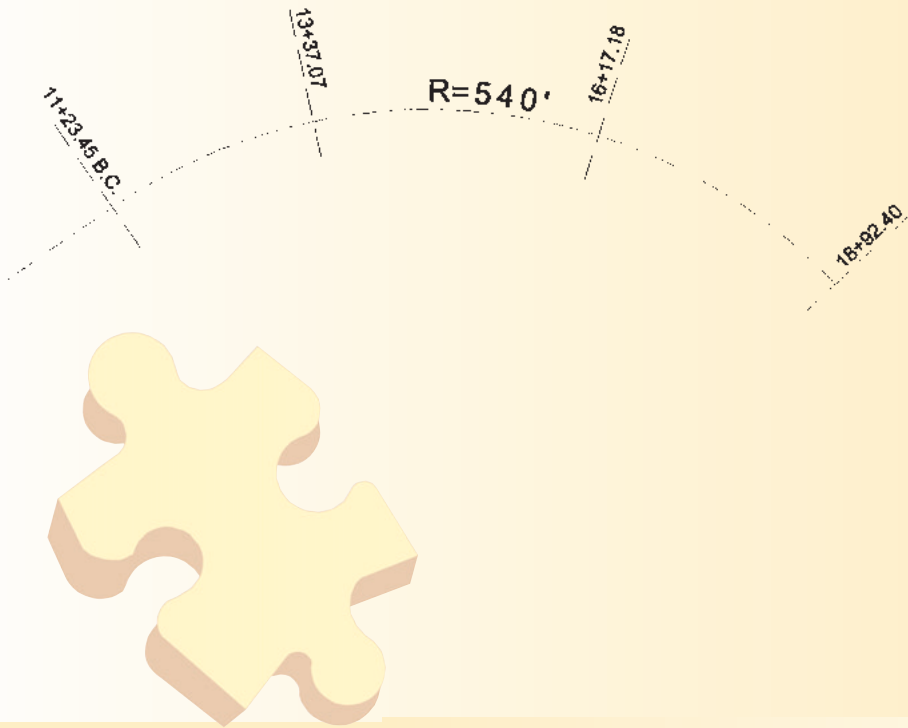




PROBLEM CORNER

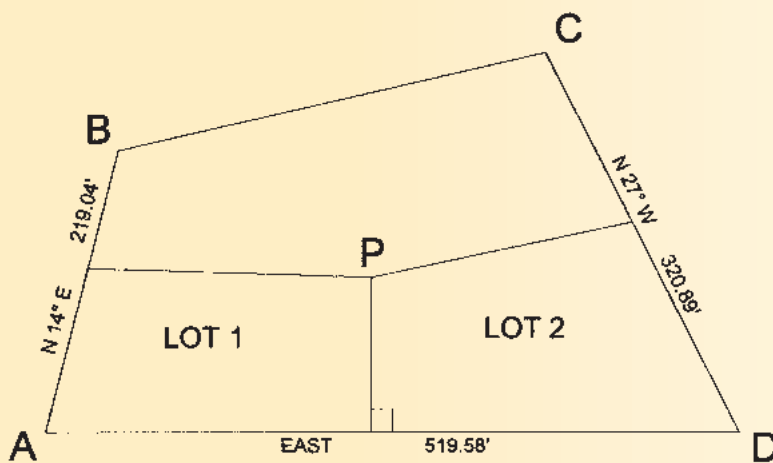
This month's challenges involve determining deflection angles and carving a parcel into specific-size areas. Solutions can be found on our website at www.profsurv.com.



Problem 37

If your instrument is set up at 13+37.07 with an angle reading of $0^{\circ}00'00''$ when pointed at the B.C., what should your deflection be to station 16+17.18? To 18+92.40? To any point in general?

If the instrument was moved to station 16+17.18 and station 13+37.07 was the backsight with an angle reading of $0^{\circ}00'00''$, what would be the deflection to station 18+92.40? Is there a better method?



Problem 38

This problem is similar to one devised by T. Vincenty in the inaugural column of the “? Cranny” in *Surveying and Mapping*, a former publication of the American Congress on Surveying and Mapping.

Find point P such that lines drawn to it from the midpoints of sides AB and CD and a third line drawn perpendicular to side AD divides Lot 1 into $\frac{1}{2}$ acre and Lot 2 into $\frac{3}{4}$ acre.

The problems for this column are contributed by retired California surveyor Dave Lindell, LS.