The minimum passing sight distance for two-lane highways is determined as the sum of the following four distances (shown in Exhibit 3-4):

- \( d_1 \) — Distance traversed during perception and reaction time and during the initial acceleration to the point of encroachment on the left lane.
- \( d_2 \) — Distance traveled while the passing vehicle occupies the left lane.
- \( d_3 \) — Distance between the passing vehicle at the end of its maneuver and the opposing vehicle.
- \( d_4 \) — Distance traversed by an opposing vehicle for two-thirds of the time the passing vehicle occupies the left lane, or \( \frac{2}{3} d_2 \) above.

Exhibit 3-4. Elements of Passing Sight Distance for Two-Lane Highways