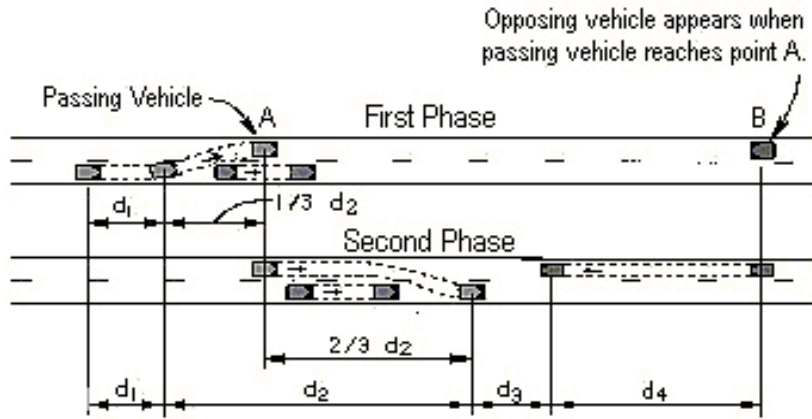


# Passing Sight Distance



$d_1$  = Initial maneuver distance (m)

$$d_1 = 0.278t_1 \left( V - m + \frac{at_1}{2} \right)$$

$d_2$  = Distance while passing vehicle occupies left lane (m)

$$d_2 = 0.278Vt_2$$

$d_3$  = Clearance length (m):

$d_4$  = Distance traversed by an opposing vehicle (m)

$$d_4 = 2/3d_2$$

Where;

$t_1$  = time of initial maneuver (s),

$a$  = average acceleration (km/h/s),

$V$  = average speed of passing vehicle (km/h),

$m$  = difference in speed of passed and passing vehicle (km/h),

$t_2$  = time passing vehicle occupies the left lane (s).