

## Appendix 6 - ITE Recommended Method for Calculating All-red Clearance Intervals

ITE provides a formula for calculating the all-red clearance interval, based on vehicle speed and width of intersection:

Where pedestrian traffic is prohibited, or no pedestrian crossing facilities are provided, use:

$$r = \frac{W + L}{V}$$



Where pedestrian crossing facilities are provided, use:

$$r = \frac{P + L}{V}$$

- Where:
- r = length of red clearance interval, to the nearest 0.1 s
  - W = width of intersection (m[ft]), measured from the near-side stop line to the far edge of the conflicting traffic lane along the actual vehicle path
  - P = width of intersection (m[ft]), measured from the near-side stop line to the far side of the farthest conflicting pedestrian crosswalk along the actual vehicle path
  - L = length of vehicle (recommended as 6 m [20 ft])
  - V = speed of vehicle through the intersection (m/s[ft/s])