

BIKE PATH CLEARING

NOTES:

1. Clear trail and shoulder areas of all vegetative matter and debris.
2. For bike paths 10 feet or greater in width, 4 feet in width more than the bike path shall be cleared.
3. 8' width (min.) for one way traffic, 10' width (min.) for two way traffic.

BIKE PATH

LARIMER COUNTY
URBAN AREA
STREET STANDARDS

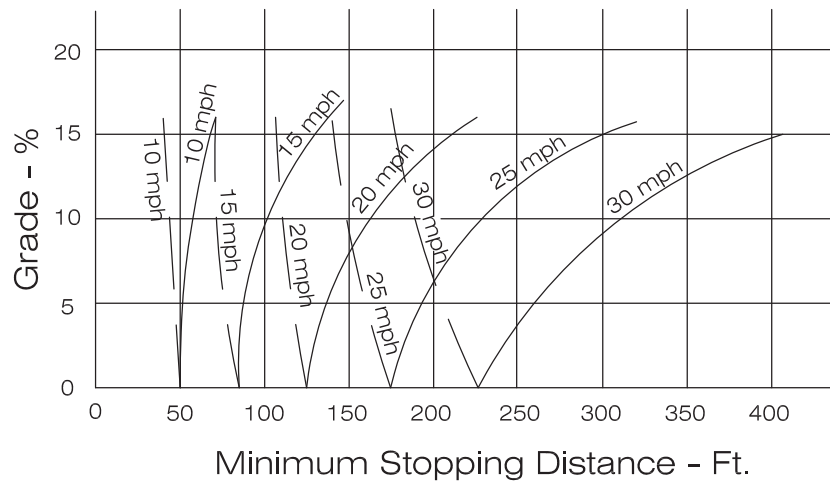
DESIGN
FIGURE

REVISION NO:

DATE: 08/07/00

FIGURE

17-1



$$S = \frac{V^2}{30(f \pm G)} + 3.67 V$$

Where: S = Minimum Sight Distance, Ft.

V = Velocity, mph

f = Coefficient of Friction (use 0.25)

G = Grade Ft./Ft. (rise/run)

(Metric Conversion: 1 FT. = 0.3 m. 1 mph = 1.6 km/h)

Descend (-G) ————

Ascend (+G) ————

From AASHTO

MINIMUM STOPPING SIGHT DISTANCES

LARIMER COUNTY
URBAN AREA
STREET STANDARDS

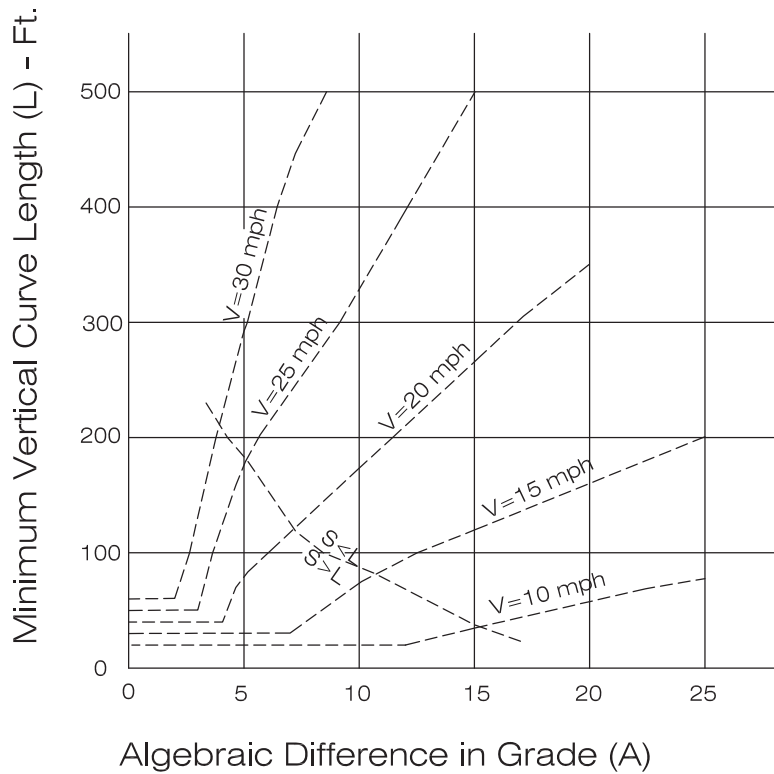
DESIGN
FIGURE

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FIGURE

17-2



$$L = 25 - \frac{200(\sqrt{h_1} + \sqrt{h_2})^2}{A} \quad \text{When } S > L$$

$$L = \frac{AS^2}{100(\sqrt{2h_1} + \sqrt{2h_2})^2} \quad \text{When } S < L$$

$$L (\text{min.}) = 2V$$

Where: S = Stopping Sight Distance (ft.)
A = Algebraic Difference in Grade
 h_1 = Eye Height of Bicyclist (4.5 Feet)
 h_2 = Height of Object (0 Feet)
L = Minimum Vertical Curve Length (ft.)

From AASHTO

MINIMUM LENGTH OF VERTICAL CURVES

LARIMER COUNTY
URBAN AREA
STREET STANDARDS

DESIGN
FIGURE

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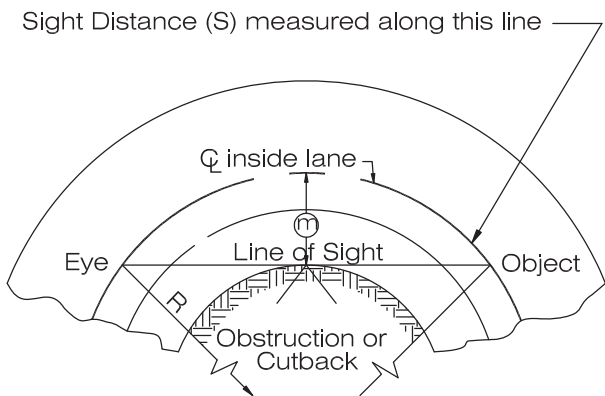
FIGURE

17-3



(Metric Conversion: 1 FT. = 0.3 m.)

* Lateral clearances on horizontal curves should be calculated based on the sum of the stopping sight distances for bicyclists traveling in opposite directions around the curve. See text for additional discussion.



S = Sight distance in feet.
 R = Radius of \mathcal{Q} inside lane in feet.
 m = Distance from \mathcal{Q} inside lane in feet.
 v = Design speed for 5 in mph.

Angle is expressed in degrees

$$m = R \left[v \text{ or } s \left(\frac{28.655}{R} \right) \right]$$

$$S = \frac{R}{28.65} \left[\cos^{-1} \left(\frac{R-m}{R} \right) \right]$$

Line of sight is 2.0' above \mathcal{Q} inside lane at point of obstruction.

Formula applies only when S is equal to or less than length of curve.

From AASHTO

MINIMUM LATERAL CLEARANCES ON HORIZONTAL CURVES

LARIMER COUNTY
 URBAN AREA
 STREET STANDARDS

DESIGN
 FIGURE

REVISION NO:

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FIGURE

17-4