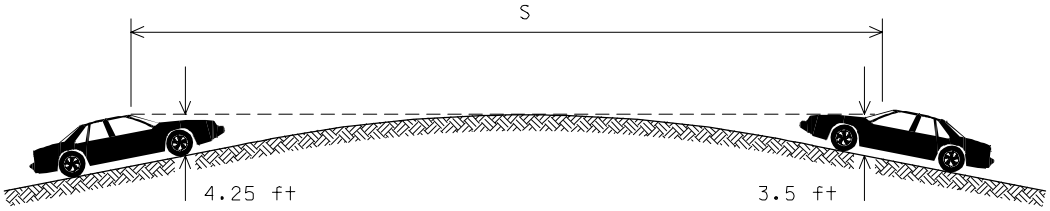
CHAPTER IV
DETAIL DESIGN



DESIGN SPEED (mph)	PASSING SIGHT DISTANCE 3.5 ′ TO 4.25′
30	1100
40	1500
50	1800
55	1950
60	2100
65	2300
70	2500

HEIGHT OF EYE	3.5 ft.
HEIGHT OF OBJECT	4.25 ft.

$S < L : L = AS^2 / 3093$

$S = (3093 * L / A)^{\frac{1}{2}}$

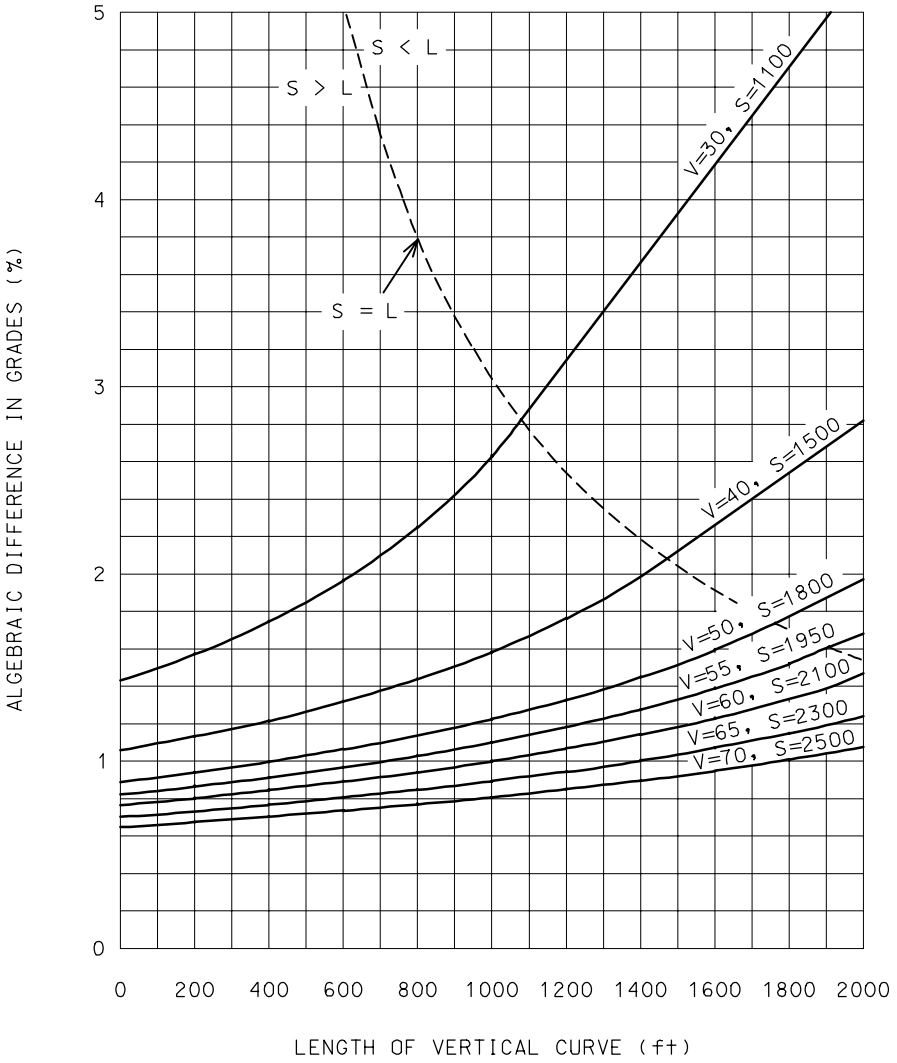
$S > L : L = 2S - (3093 / A)$

$S = (L + 3093 / A) / 2$

L = LENGTH OF VERTICAL CURVE (ft)

A = ALGEBRAIC DIFFERENCE IN GRADE (%)

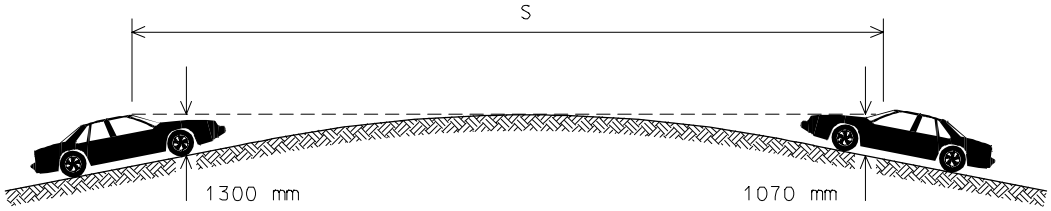
S = SIGHT DISTANCE (ft)



Minimum Passing Sight Distance

Figure 4-04.5

CHAPTER IV
DETAIL DESIGN



DESIGN SPEED km/h	PASSING SIGHT DISTANCE 1070 mm TO 1300 mm
50	345
60	407
70	482
80	541
90	605
100	670
110	728
120	792

HEIGHT OF EYE	1070 mm
HEIGHT OF OBJECT	1300 mm

$S < L$: $L = AS^2 / 946$

$S = (946 * L / A)^{\frac{1}{2}}$

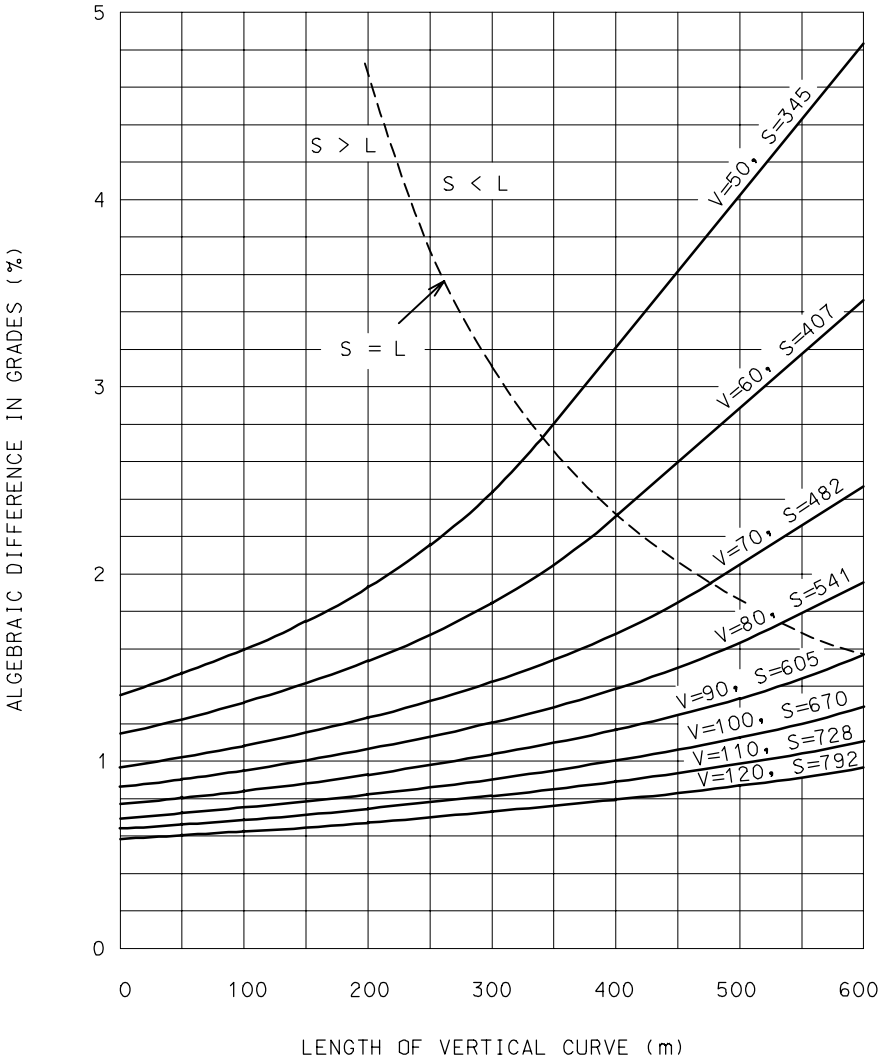
$S > L$: $L = 2S - (946 / A)$

$S = (L + 946 / A) / 2$

L = LENGTH OF VERTICAL CURVE (m)

A = ALGEBRAIC DIFFERENCE IN GRADE (%)

S = SIGHT DISTANCE (m)



Minimum Passing Sight Distance

Figure 4-04.5