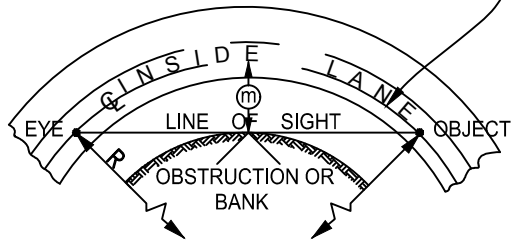


SIGHT DISTANCE (S) MEASURED ALONG THIS LINE



S = SIGHT DISTANCE IN FEET

R = RADIUS OF \curvearrowright INSIDE LANE IN FEET

m = DISTANCE FROM \curvearrowright INSIDE LANE IN FEET

V = DESIGN SPEED FOR "S" IN M.P.H.

ANGLE IS EXPRESSED IN DEGREES

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

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

FORMULA APPLIES ONLY WHEN S IS EQUAL TO OR LESS THAN LENGTH OF CURVE.

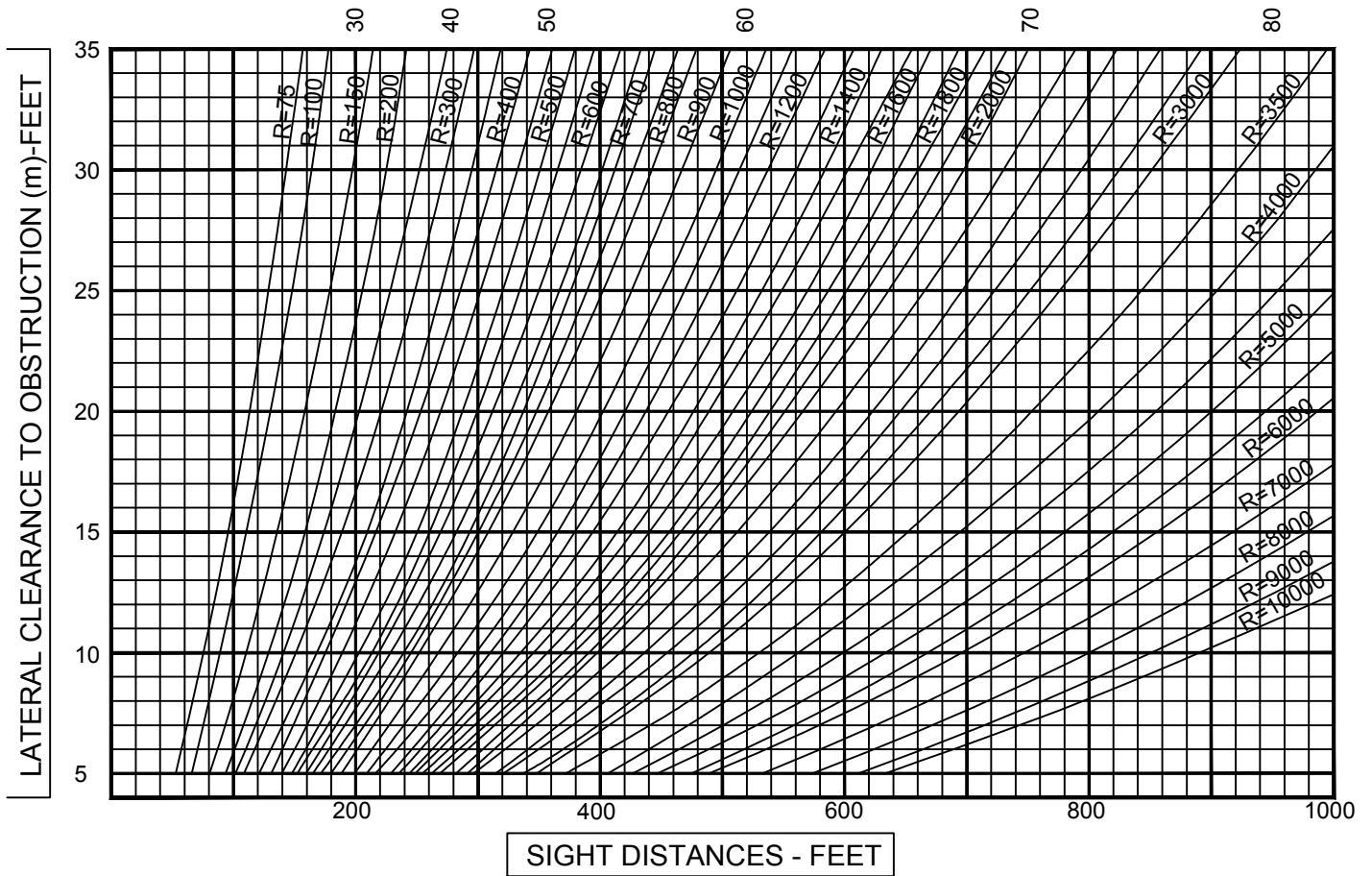
HEIGHT OF EYE - 3.50'

HEIGHT OF OBJECT - 0.50'

LINE OF SIGHT IS 2.0' ABOVE CENTERLINE INSIDE LANE AT POINT OF OBSTRUCTION

DESIGN SPEED (M.P.H.)	SIGHT DISTANCE (FEET)
20	125
25	165
30	200
35	240
40	275
45	315
50	350
55	440
60	525
65	600
70	750

DESIGN SPEED - MPH



CHANGE	DESCRIPTION	DATE	INITIAL	APPROVED: <i>Cliff F. L.</i> CITY ENGINEER	DATE: <i>5/21/18</i>
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