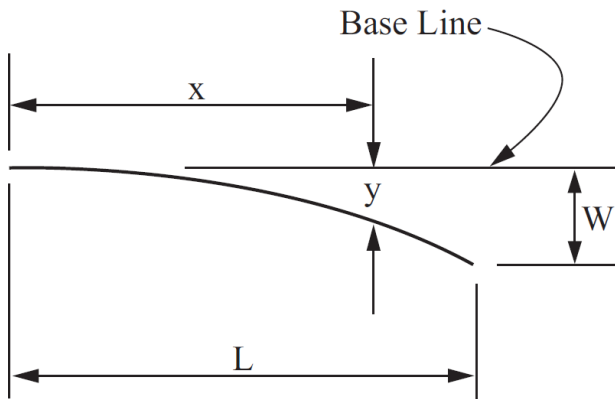




Bridge Design Details 2G June 2025

Parabolic Curve Flares



$$y = \frac{Wx^2}{L^2}$$

x = distance along base line in feet

y = offset from base line in feet

L = length of flare in feet

W = maximum offset in feet*

Width to Length Ratio = 1:5

Flare Length	x=10	x=15	x=20	x=25
25	0.80	1.80	3.20	5.00*

Flare Length	x=10	x=20	x=30	x=40	x=50
50	0.40	1.60	3.60	6.40	10.00*

Width to Length Ratio = 1:10

Flare Length	x=10	x=20	x=30	x=40	x=50
50	0.20	0.80	1.80	3.20	5.00*

Flare Length	x=10	x=20	x=30	x=40	x=50	x=60	x=70	x=80	x=90	x=100
100	0.10	0.40	0.90	1.60	2.50	3.60	4.90	6.40	8.10	10.00*



Width to Length Ratio = 1:15

Flare Length	x=10	x=20	x=30	x=40	x=45
45'	0.15	0.59	1.33	2.37	3.00*

Flare Length	x=10	x=20	x=30	x=40	x=50	x=60	x=70	x=75
75'	0.09	0.36	0.80	1.42	2.22	3.20	4.36	5.00*

Flare Length	x=10	x=20	x=30	x=40	x=50	x=60	x=70	x=80	x=90
90'	0.07	0.30	0.67	1.19	1.85	2.67	3.63	4.74	6.00*

Flare Length	x=10	x=20	x=30	x=40	x=50	x=60	x=70	x=80	x=90	x=100	x=110	x=120
120'	0.06	0.22	0.50	0.89	1.39	2.00	2.72	3.56	4.50	5.56	6.72	8.00*

Table 2A.G.1 Offset "y" in Feet for Given Distance "x"