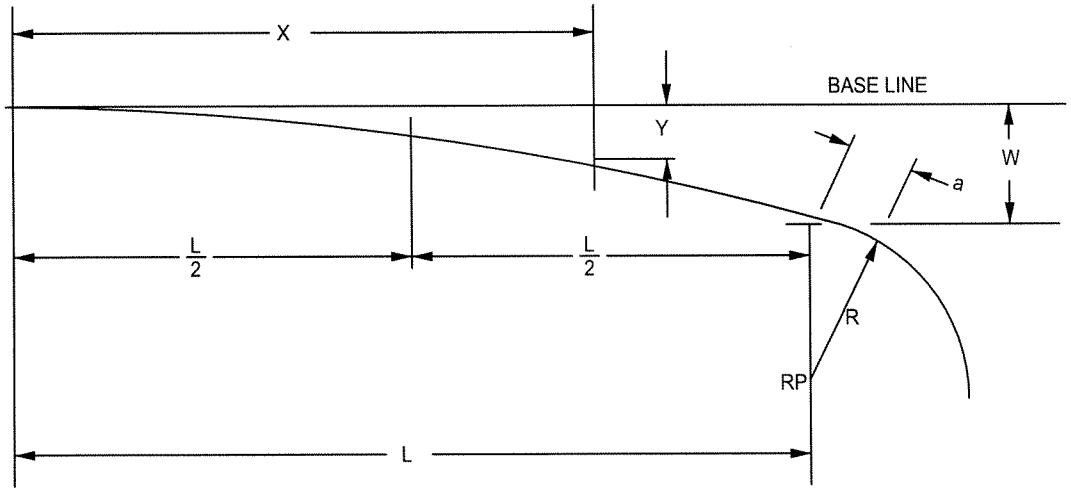

$$Y = W\left(\frac{X}{L}\right)^2$$

L = LENGTH OF FLARE IN FEET
W = MAXIMUM OFFSET DISTANCE IN FEET
X = DISTANCE ALONG BASE LINE IN FEET
Y = OFFSET FROM BASE LINE IN FEET

a = TANGENT
R = RADIUS OF NOSE IN FEET

(W) is shown in table thus 5.00

OFFSET IN FEET FOR GIVEN "X" DISTANCE

(X) Distance / (L) Length of flare	10	15	20	25	30	40	45	50	60	70	75	80	90	100	110	120
1:5 FLARES																
25	0.80	1.80	3.20	5.00												
50	0.40		1.60		3.60	6.40		10.00								
1:10 FLARES																
50	0.20		0.80		1.80	3.20		5.00								
100	0.10		0.40		0.90	1.60		2.50	3.60	4.90		6.40	8.10	10.00		
1:15 FLARES																
45	0.15		0.59		1.33	2.37	3.00									
75	0.09		0.36		0.80	1.42		2.22	3.20	4.36	5.00					
90	0.07		0.30		0.67	1.19		1.85	2.67	3.63		4.74	6.00			
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

Note: The Standard Flare Shall Be 1:10, 100 Ft. Long

CHG	DESCRIPTION	DATE	INITIAL

APPROVED [signature] CITY ENGINEER 5/20/07 DATE

CITY OF THOUSAND OAKS
PUBLIC WORKS DEPARTMENT

STANDARD
PARABOLIC FLARES

PLATE NO.
3-12