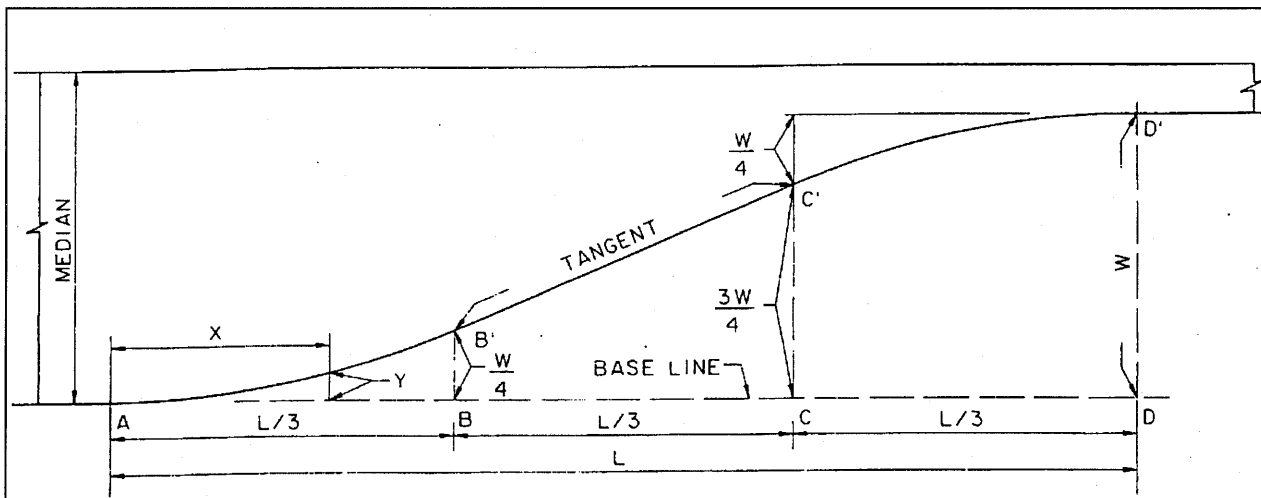




$$Y = 2.25W\left(\frac{X}{L}\right)^2$$

L=LENGTH OF TAPER
W=MAXIMUM OFFSET DISTANCE
X=DISTANCE ALONG BASELINE
Y=OFFSET FROM BASELINE

L												
DISTANCE X												
60'	5'	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'
72'	6'	12'	18'	24'	30'	36'	42'	48'	54'	60'	66'	72'
90'	7.5'	15'	22.5'	30'	37.5'	45'	52.5'	60'	67.5'	75'	82.5'	90'
120'	10'	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'
150'	12.5'	25'	37.5'	50'	62.5'	75'	87.5'	100'	112.5'	125'	137.5'	150'
W												
OFFSET Y												
10'	0.16'	0.62'	1.41'	2.50'	3.75'	5.00'	6.25'	7.50'	8.59'	9.38'	9.84'	10.00'
11'	0.17'	0.69'	1.55'	2.75'	4.13'	5.50'	6.88'	8.25'	9.45'	10.31'	10.83'	11.00'
12'	0.19'	0.75'	1.69'	3.00'	4.50'	6.00'	7.50'	9.00'	10.31'	11.25'	11.81'	12.00'
19'	0.30'	1.19'	2.67'	4.75'	7.13'	9.50'	11.88'	14.25'	16.33'	17.81'	18.70'	19.00'
20'	0.31'	1.25'	2.81'	5.00'	7.50'	10.00'	12.50'	15.00'	17.19'	18.75'	19.69'	20.00'
21'	0.33'	1.31'	2.95'	5.25'	7.88'	10.50'	13.13'	15.75'	18.05'	19.69'	20.67'	21.00'
22'	0.34'	1.38'	3.09'	5.50'	8.25'	11.00'	13.75'	16.50'	18.91'	20.62'	21.66'	22.00'

NOTE:

TO DETERMINE OFFSET DISTANCE FOR ANY LENGTH OF TAPER USE THE FORMULA $Y = 2.25W\left(\frac{X}{L}\right)^2$ FOR THE PORTIONS AB' AND C'D' WHICH ARE PARABOLIC CURVES. THE PORTION B'C' IS A TANGENT. WHEN THE BASELINE IS CURVED, THE OFFSETS ARE APPLIED TO THE CURVED BASELINE AND B'C' IS NO LONGER A TANGENT.

REVISIONS:

APPROVED
08/21/01

CHRIS A. VOGT
CITY ENGINEER
RCE 44250



City of La Quinta

MEDIAN TAPER

STANDARD

415

SHEET 1 OF 1