



**PLAN VIEW**

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

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'
90'	7.5'	15'	22.5'	30'	37.5'	45'	52.5'	60'	67.5'	75'	82.5'	90'	

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'
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'	
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'	

**NOTES:**

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

(Not To Scale)



**ENGINEERING  
DEPARTMENT**

**MEDIAN TAPER**

*John E. Stevenson*  
**JOHN E. STEVENSON**  
CITY ENGINEER

DATE: MAR. 20, 2001  
REVISD:

SHEET NO.  
**ST-32**