



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

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

L, m	DISTANCE X, L/12 INCREMENTS, m											
18.00 (60')	1.50 (5')	3.00 (10')	4.50 (15')	6.00 (20')	7.50 (25')	9.00 (30')	10.50 (35')	12.00 (40')	13.50 (45')	15.00 (50')	16.50 (55')	18.00 (60')
21.60 (72')	1.80 (6')	3.60 (12')	5.40 (18')	7.20 (24')	9.00 (30')	10.80 (36')	12.60 (42')	14.40 (48')	16.20 (54')	18.00 (60')	19.80 (66')	21.60 (72')
27.00 (90')	2.25 (7.5')	4.50 (15')	6.75 (22.5')	9.00 (30')	11.25 (37.5')	13.50 (45')	15.75 (52.5')	18.00 (60')	20.25 (67.5')	22.50 (75')	24.75 (82.5')	27.00 (90')
36.00 (120')	3.00 (10')	6.00 (20')	9.00 (30')	12.00 (40')	15.00 (50')	18.00 (60')	21.00 (70')	24.00 (80')	27.00 (90')	30.00 (100')	33.00 (110')	36.00 (120')
45.00 (150')	3.75 (12.5')	7.50 (25')	11.25 (37.5')	15.00 (50')	18.75 (62.5')	22.50 (75')	26.25 (87.5')	30.00 (100')	33.75 (112.5')	37.50 (125')	41.25 (137.5')	45.00 (150')
W, mm	OFFSET Y, mm											
3000 (10')	47 (0.16')	188 (0.62')	422 (1.41')	750 (2.50')	1125 (3.75')	1500 (5.00')	1875 (6.25')	2250 (7.50')	2578 (8.59')	2812 (9.38')	2953 (9.84')	3000 (10.00')
3300 (11')	51 (0.17')	206 (0.69')	464 (1.55')	825 (2.75')	1238 (4.13')	1650 (5.50')	2063 (6.88')	2475 (8.25')	2836 (9.45')	3094 (10.31')	3249 (10.83')	3300 (11.00')
3600 (12')	56 (0.19')	225 (0.75')	506 (1.69')	900 (3.00')	1350 (4.50')	1800 (6.00')	2250 (7.50')	2700 (9.00')	3094 (10.31')	3375 (11.25')	3544 (11.81')	3600 (12.00')
5700 (19')	89 (0.30')	356 (1.19')	802 (2.67')	1425 (4.75')	2138 (7.13')	2850 (9.50')	3562 (11.88')	4275 (14.25')	4898 (16.33')	5344 (17.81')	5611 (18.70')	5700 (19.00')
6000 (20')	94 (0.31')	375 (1.25')	844 (2.81')	1500 (5.00')	2250 (7.50')	3000 (10.00')	3750 (12.50')	4500 (15.00')	5156 (17.19')	5625 (18.75')	5906 (19.69')	6000 (20.00')
6300 (21')	98 (0.33')	394 (1.31')	886 (2.95')	1575 (5.25')	2363 (7.88')	3150 (10.50')	3937 (13.13')	4725 (15.75')	5414 (18.05')	5906 (19.69')	6202 (20.67')	6300 (21.00')
6600 (22')	103 (0.34')	412 (1.38')	928 (3.09')	1650 (5.50')	2475 (8.25')	3300 (11.00')	4125 (13.75')	4950 (16.50')	5672 (18.91')	6188 (20.62')	6497 (21.66')	6600 (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 BASE LINE IS CURVED, THE OFFSETS ARE APPLIED TO THE CURVED BASE LINE, AND B'C' IS NO LONGER A TANGENT.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE
PUBLIC WORKS STANDARDS INC.
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MEDIAN TAPER

STANDARD PLAN
METRIC
140-2

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

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