

Legend:-
 W = Width of Pavement (in feet).
 C = Crown (in inches).
 .080357 times Crown = Constant.

Rule:- Use parabolic formula to find Y and deduct Constant.

Example:- Using $W=18'$; $C=1.00''$
 Then $\frac{W}{2} = 9'-0''$; $\frac{3W}{16} = 3.375'$;
 $\frac{W}{2} + \frac{3W}{16} = 12.375'$; $.080357 C = .080357''$
 $1.000000'' + .080357'' = 1.080357'' =$
 Crown + Constant.

DETAILS OF GIVEN EXAMPLE

d	(d) ²	Y	CONSTANT	Y-CONSTANT
* 3.375	11.390625	0.080357	0.080357	0.000000
4.375	19.140625	0.135031	0.080357	0.054674
5.375	28.890625	0.203814	0.080357	0.123457
* 5.625	31.640625	0.223214	0.080357	0.142857
6.375	40.640625	0.286706	0.080357	0.206349
7.375	54.390625	0.383708	0.080357	0.303351
* 7.875	62.015625	0.437500	0.080357	0.357143
8.375	70.140625	0.494819	0.080357	0.414462
9.375	87.890625	0.620040	0.080357	0.539683
* 10.125	102.515625	0.723214	0.080357	0.642857
10.375	107.640625	0.759369	0.080357	0.679012
11.375	129.390625	0.912809	0.080357	0.832452
* 12.375	153.140625	1.080357	0.080357	1.000000

*Eighth Intervals of Pavement Width.

Proof:- $\frac{2}{14}$ of $1.00'' = 0.143''$; $\frac{5}{14}$ of $1.00'' = 0.357''$;
 $\frac{9}{14}$ of $1.00'' = 0.643''$; $\frac{14}{14}$ of $1.00'' = 1.000''$.

ORDINATES IN INCHES AT INTERVALS IN FEET FROM & PAV.

16' PAVEMENT		18' PAVEMENT		20' PAVEMENT				
INT.	ORDINATE	INT.	ORDINATE	INT.	ORDINATE			
*0.00	0.00000	0/64	*0.00	0.00000	0/64	*0.00	0.00000	0/64
1.00	0.05078	3/64	1.00	0.05467	3/64	1.00	0.05768	4/64
*2.00	0.11607	7/64	2.00	0.12346	8/64	2.00	0.12893	9/64
3.00	0.19587	13/64	*2.25	0.14286	9/64	*2.50	0.16964	11/64
*4.00	0.29018	19/64	3.00	0.20635	13/64	3.00	0.21375	14/64
5.00	0.39900	26/64	4.00	0.30335	19/64	4.00	0.31214	20/64
*6.00	0.52232	33/64	*4.50	0.35714	23/64	*5.00	0.42411	27/64
7.00	0.66016	42/64	5.00	0.41446	27/64	6.00	0.54964	35/64
*8.00	0.81250	13/16	6.00	0.53968	35/64	7.00	0.68875	44/64
			*6.75	0.64286	41/64	*7.50	0.76339	49/64
			7.00	0.67901	43/64	8.00	0.84143	54/64
			8.00	0.83245	53/64	9.00	1.00768	1-
			*9.00	1.00000	1-	*10.00	1.18750	13/16

*Eighth Intervals of Pavement Width.

STANDARD CROWNS

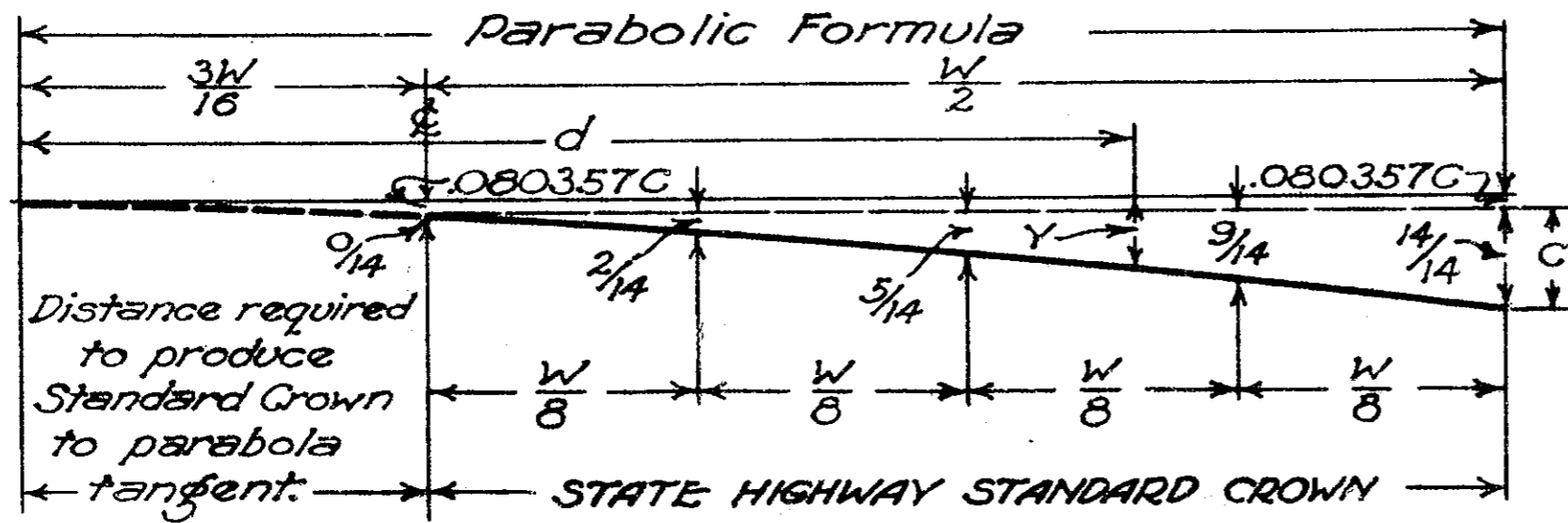
FOR CONCRETE PAVEMENT ONLY

DIVISION OF HIGHWAYS — OHIO

CONST. DRAWING NO. 115-A

MAR. 1928.

APPROVED _____ CH. ENGR. BUR. OF CONST.



~ LEGEND ~
 W = Width of Pavement (in feet).
 C = Crown (in inches).
 .080357 times Crown = Constant.

RULE: - Use parabolic formula to find Y and deduct Constant.

EXAMPLE: - Using W = 20'; C = 1.25"
 Then $\frac{W}{2} = 10'-0"$; $\frac{3W}{16} = 3.75'$;
 $\frac{W}{2} + \frac{3W}{16} = 13.75'$; $.080357C = .100446"$
 $1.250000" + .100446" = 1.350446" =$
 Crown + Constant.

DETAILS OF GIVEN EXAMPLE
 FOR 20 FOOT PAVEMENT

d	(d) ²	Y	CONSTANT	Y - CONSTANT OR ORDINATE		INTERVALS IN FEET FROM #
				DECIMAL OF INCH	INCHES	
# 3.75	14.0625	.100446	.100446	.000000	0/64	# 0.00
4.75	22.5625	.161161	.100446	.060715	4/64	1.00
5.75	33.0625	.236160	.100446	.135714	9/64	2.00
# 6.25	39.0625	.279018	.100446	.178572	11/64	# 2.50
6.75	45.5625	.325446	.100446	.225000	14/64	3.00
7.75	60.0625	.429017	.100446	.328571	21/64	4.00
# 8.75	76.5625	.546874	.100446	.446428	29/64	# 5.00
9.75	95.0625	.679017	.100446	.578571	37/64	6.00
10.75	115.5625	.825446	.100446	.725000	46/64	7.00
# 11.25	126.5625	.904017	.100446	.803571	52/64	# 7.50
11.75	138.0625	.986159	.100446	.885713	57/64	8.00
12.75	162.5625	1.161160	.100446	1.060714	1 4/64	9.00
# 13.75	189.0625	1.350446	.100446	1.250000	1 16/64	# 10.00

EIGHTH INTERVALS OF PAVEMENT WIDTH

PROOF: - $2/14$ of 1.25" = .0178572"; $5/14$ of 1.25" = .446428";
 $9/14$ of 1.25" = .803571"; $14/14$ of 1.25" = 1.00000"

BUREAU OF CONSTRUCTION
 OHIO
 DEPARTMENT OF HIGHWAYS
 STANDARD CROWN
 FOR CONCRETE PAVEMENT ONLY
 STANDARD
 CONSTRUCTION DRAWING 115A
 FEB. 7, 1933
 APPROVED *E.H.* CHIEF ENGR. CONST.